

## Olerup SSP<sup>®</sup> DPB1

Product number:	101.311-24/04 – including <i>Taq</i> pol.
Lot number:	29F
Expiry date:	2010-October-01
Number of tests:	24 tests – Product No. 101.311-24 4 tests – Product No. 101.311-04
Number of wells per test:	48
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

**This Product Description is only valid for Lot No. 29F.**

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

The DPB1 specificity and interpretation tables have been updated for the DPB1 alleles described since the previous Olerup SSP<sup>®</sup> DPB1 lot was made (Lot No. Y21).

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

Well	5'-primer	3'-primer	rationale
4	-	Modified	Increased specificity of specific PCR product.
26	-	Modified	Increased specificity of specific PCR product.
47	Modified	-	Increased specificity of specific PCR product.
48	-	Modified	Increased specificity of specific PCR product.

## 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. ‘29F’.

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 July 2008<sup>1</sup> will give rise to unique amplification patterns by the primers in the DPB1 typing kit.

The DPB1 typing kit cannot distinguish the DPB1\*010101 and DP1\*010103 alleles, the DPB1\*020102 to DPB1\*020106 alleles, the DPB1\*030101 and the DPB1\*030102 alleles, the DPB1\*040101 and DPB1\*040102 alleles, the DPB1\*110101 and DPB1\*110102 alleles, the DPB1\*200101 and DPB1\*200102 alleles, the DPB1\*260101 and DPB1\*260102 alleles or the DPB1\*410101 and DPB1\*410102 alleles.

<sup>1</sup>DPB1 alleles listed on the IMGT/HLA web page 2008-July-11, release 2.22.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

#### RESOLUTION IN HOMO- AND HETEROZYGOTES

The 116 DPB1 alleles can be combined in 6 786 homozygous and heterozygous combinations. 682 of these genotypes do not give rise to unique amplification patterns. (The different lengths of the specific PCR products in lanes 24, 25, 32, 37, 40, 41, 42, 43, 44, 45, 47 and 48 were not considered in these calculations.)

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+++++++	+-----+	-----++	+-----+	-----	---+-----	0101,3801 = 2102,3801
+++++++	-----+	+++++--+	-----+	-----	-----	0301,6501 = 6501,9201
+++++++	-----+	+--+-----	---+-----	-----	-----	2601,6801 = 6501,7901
+++++++	-----	+--+-----	---+-----	-----	-----	2601,6501 = 2601,8401
+++++++	-----	-----+	-----+	-----	---+-----	2102,6501 = 2102,8401
+++++++	-----	-----+	-----+	-----	-----	0101,6501 = 0101,8401 = 6501,9001
+++++++	+--+-----	+++-----	-++-----	-----	---+-----	0101,6401N = 0601,2102 = 2102,6401N
+++++++	-----+	+++++--	-----++	-+-----	---+-----	1401,2102 = 2102,7601
+++++++	-----+	+++++--	-----++	-+-----	-----	0101,1401 = 0101,7601
+++++++	-----+	+++++--	-----++	-----	---+-----	0101,1402 = 0301,2102 = 1402,2102 = 2102,9201
+++++++	-----+	+++++--	-----++	-----	-----	0101,0301 = 0101,9201
+++++++	-----	+--+-----	---+-----	+-----+	-----	0101,0902 = 0902,9001
+++++++	-----	+--+-----	---+-----	+-----	---+-----	1301,2102 = 1302,2102
+++++++	-----	+--+-----	---+-----	+-----	-----	0101,1301 = 0101,1302 = 1301,9001
+++++++	-----	+--+-----	---+-----	-----	-----	0101,2601 = 2601,9001
+++++++	-----	-----	-----+	-----	---+-----	0101,2102 = 2102,2102 = 2102,8901 = 2102,9001
+++++++	-----	-----	-----+	-----	-----	0101,0101 = 0101,8901 = 0101,9001
+++++++	-----+	+++++--	-----++	-+-----	-----	1401,9001 = 7601,9001
+++++++	-----+	+++++--	-----++	-----	-----	0301,9001 = 9001,9201
+++++++	-----+	-----	-----+	-----	-----	8901,9001 = 9001,9001
+++++++	-----+	+++++--	---+-----	-+-----	-----	1401,2601 = 2601,7601
+++++++	-----+	+++++--	---+-----	-----	-----	0301,2601 = 2601,9201
+++++++	-----	+--+-----	---+-----	+-----+	-----	0902,2601 = 0902,2701 = 0902,8901
+++++++	-----	+--+-----	---+-----	+-----	-----	1301,2601 = 1301,2701 = 1301,8901 = 1302,2601
+++++++	-----	+--+-----	---+-----	-----	-----	2601,2601 = 2601,2701 = 2601,8901
+++++++	-----+	+++++--	-----++	-+-----	-----	1401,5601 = 5601,7601
+++++++	-----+	+++++--	-----++	-----	-----	1101,9201 = 5601,7801
+++++++	-----+	+++++--	-----++	-----	-----	0301,5601 = 5601,9201 = 8901,9201
+++++++	-----	+--+-----	-----+	-----	-----	5601,5601 = 5601,8901
+++++++	-----	+--+-----	---+-----	+-----	-----	1302,2701 = 1302,8901
+++++++	---+-----	+--+-----	-+-----	-----	-----	2701,8801 = 8801,8901
+++++++	---+-----	+--+-----	---+-----	-----	-----	2701,3701 = 3701,8901
+++++++	-----+	+++++--	---+-----	-----	-----+	0301,8501 = 2701,6101N = 6101N,8501
+++++	-----+	+--+-----	---+-----	-----	-----	2701,7901 = 7901,8901
+++-----	-----+	+++++--	-----++	-----	-----	0301,1101 = 1101,7801
+++++-----	-----+	+++++--+	-----+	-----	-----	6801,9201 = 8401,9201
+++++-----	+-----+	+++++--	-----	-----	+-----	7701,9201 = 9201,9401
+++++-----	+-----+	+++++--	---+-----	-----	-----	2001,9201 = 6901,9201
+++++-----	-----+	+++++--	-----+	-+-----	-----	0301,7601 = 1401,9201 = 7601,9201
++-+-----	-----+	+++++--	-----	-----	-----	0301,9201 = 9201,9201
++-+-----	+-----+	+++++--+	-----+	-----	---+-----	0301,1901 = 0502,1901
++-+-----	+-----+	-----	-----	-----	+-----	5001,7701 = 5001,9401
++-+-----	-----+	+++++--+	-----++	-----	-----	6801,7801 = 7801,8401
++-+-----	-----+	+++++--+	-----+	-----	---+-----	0502,6801 = 0502,8401
++-+-----	-----+	+++++--+	-----+	-----	---+-----	1402,6801 = 1402,8401
++-+-----	-----+	+++++--+	-----+	-----	-----+	6101N,6801 = 6101N,8401
++-+-----	-----+	+++++--+	-----+	-----	-----	0301,6801 = 0301,8401



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+++++ +-----+ +--+---+ +-----+ +-----+ +-----+ 2501,6801 = 2501,8401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 6801,7901 = 7901,8401
+++++ +-----+ +--+---+ +-----+ +-----+ +-----+ 5001,6801 = 5001,8401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2001,5001 = 5001,6901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 7701,7801 = 7801,9401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0502,7701 = 0502,9401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 1402,7701 = 1402,9401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 6101N,7701 = 6101N,9401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,7701 = 0301,9401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2501,7701 = 2501,9401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 7701,7901 = 7901,9401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0501,1402 = 0502,3801
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,0501 = 0501,0502
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,3801 = 1402,3801
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 1502,2501 = 1902,5201
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,6201 = 0502,6201
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,6401N = 0601,1402 = 1402,6401N
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,0601 = 2001,2901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 3701,8701 = 5201,9301
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 1702,5501 = 1702,5801
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 1702,2101 = 1702,3601
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,3401 = 0502,3401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2001,7801 = 6901,7801
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0502,2001 = 0502,6901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 1402,2001 = 1402,6901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2001,6101N = 6101N,6901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,2001 = 0301,6901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2001,7901 = 6901,7901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2001,2501 = 2501,6901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 3001,5201 = 5201,5501
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2501,8801 = 2901,7901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,1702 = 1702,7001
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,7801 = 7801,7801
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,0502 = 0502,0502
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,1402 = 1402,1402
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0301,6101N = 6101N,6101N
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2501,6701 = 4501,5201
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 1301,6501 = 1302,6501
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0902,5401 = 1301,5401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0902,0902 = 0902,1301 = 0902,1302
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 1301,1301 = 1301,1302
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0601,4401 = 4401,6901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 4401,5501 = 4401,5801
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0601,8801 = 6901,8801
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 0601,2901 = 2901,6901
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2901,4401 = 4401,4401
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 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
+++++ +-----+ +--+---+ +--+---+ +-----+ +-----+ 2701,3501 = 3501,8901



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----	-----	+++-----	-----++-	-----+	-----	2701,5401 = 5401,8901
----	-----	+++-----	-----++-	-----+	-----	2701,8501 = 8501,8501 = 8501,8901
----	-----	+++-----	-----++-	-----+	-----	2701,2701 = 2701,8901
-----+	-----+	+++-----	-----++-	-----+	-----	2001,6801 = 2001,8401
-----+	-----+	+++-----	-----++-	-----+	-----	1801,6801 = 1801,8401
-----+	-----+	+++-----	-----++-	-----+	-----	2001,7701 = 2001,9401
-----+	-----+	+++-----	-----++-	-----+	-----	1801,7701 = 1801,9401
-----+	-----+	+++-----	-----++-	-----+	-----	3601,5501 = 3601,5801
-----+	-----+	+++-----	-----++-	-----+	-----	2101,3601 = 3601,3601
-----+	-----+	+++-----	-----++-	-----+	-----	1801,2001 = 1801,6901
-----+	-----+	+++-----	-----++-	-----+	-----	2001,2001 = 2001,6901
-----+	-----+	+++-----	-----++-	-----+	-----	3001,8701 = 5501,8701
-----+	-----+	+++-----	-----++-	-----+	-----	6001,6501 = 6501,8301
-----+	-----+	+++-----	-----++-	-----+	-----	1401,6501 = 6501,7601
-----+	-----+	+++-----	-----++-	-----+	-----	6501,6501 = 6501,8401
-----+	-----+	+++-----	-----++-	-----+	-----	0201,9901 = 0401,4801
-----+	-----+	+++-----	-----++-	-----+	-----	1802,9601 = 3901,4101 = 4101,9601
-----+	-----+	+++-----	-----++-	-----+	-----	0201,3901 = 0401,1802
-----+	-----+	+++-----	-----++-	-----+	-----	0202,0401 = 0202,9901
-----+	-----+	+++-----	-----++-	-----+	-----	6001,9901 = 8301,9901
-----+	-----+	+++-----	-----++-	-----+	-----	1002,3901 = 7201,8001
-----+	-----+	+++-----	-----++-	-----+	-----	0401,5901 = 0602,7201
-----+	-----+	+++-----	-----++-	-----+	-----	3901,6001 = 3901,8301 = 6001,9601 = 8301,9601
-----+	-----+	+++-----	-----++-	-----+	-----	0401,6001 = 0401,8301
-----+	-----+	+++-----	-----++-	-----+	-----	0302,7701 = 3101,7701
-----+	-----+	+++-----	-----++-	-----+	-----	4001,6001 = 4001,8301
-----+	-----+	+++-----	-----++-	-----+	-----	0302,9401 = 3101,9401
-----+	-----+	+++-----	-----++-	-----+	-----	3901,5301 = 4001,4901
-----+	-----+	+++-----	-----++-	-----+	-----	3901,9601 = 9601,9601
-----+	-----+	+++-----	-----++-	-----+	-----	0302,3401 = 3101,3401
-----+	-----+	+++-----	-----++-	-----+	-----	0302,3101 = 3101,3101
-----+	-----+	+++-----	-----++-	-----+	-----	3301,6001 = 3301,8301
-----+	-----+	+++-----	-----++-	-----+	-----	2301,3301 = 3301,7101
-----+	-----+	+++-----	-----++-	-----+	-----	6801,7601 = 7601,8401
-----+	-----+	+++-----	-----++-	-----+	-----	5101,6801 = 5101,8401
-----+	-----+	+++-----	-----++-	-----+	-----	2801,7501 = 5301,7301
-----+	-----+	+++-----	-----++-	-----+	-----	4901,6801 = 4901,8401
-----+	-----+	+++-----	-----++-	-----+	-----	2801,6801 = 2801,8401
-----+	-----+	+++-----	-----++-	-----+	-----	5301,6801 = 5301,8401
-----+	-----+	+++-----	-----++-	-----+	-----	7601,7701 = 7601,9401
-----+	-----+	+++-----	-----++-	-----+	-----	6901,7601 = 7601,9101
-----+	-----+	+++-----	-----++-	-----+	-----	1401,7601 = 7601,7601
-----+	-----+	+++-----	-----++-	-----+	-----	4601,4901 = 4601,5101
-----+	-----+	+++-----	-----++-	-----+	-----	1802,4901 = 1802,5101
-----+	-----+	+++-----	-----++-	-----+	-----	4901,8601 = 5101,8601
-----+	-----+	+++-----	-----++-	-----+	-----	2401,6001 = 2401,8301
-----+	-----+	+++-----	-----++-	-----+	-----	1002,4901 = 1002,5101
-----+	-----+	+++-----	-----++-	-----+	-----	4901,8001 = 5101,8001
-----+	-----+	+++-----	-----++-	-----+	-----	4901,7701 = 4901,9401
-----+	-----+	+++-----	-----++-	-----+	-----	5101,7701 = 5101,9401
-----+	-----+	+++-----	-----++-	-----+	-----	4901,6001 = 4901,8301
-----+	-----+	+++-----	-----++-	-----+	-----	5101,6001 = 5101,8301
-----+	-----+	+++-----	-----++-	-----+	-----	1002,5301 = 2801,8001
-----+	-----+	+++-----	-----++-	-----+	-----	2801,7701 = 2801,9401
-----+	-----+	+++-----	-----++-	-----+	-----	0402,2801 = 5301,5901
-----+	-----+	+++-----	-----++-	-----+	-----	5301,7701 = 5301,9401



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---	+	---	+	---	+	---	+	---	+	---	+	5301,6001	=	5301,8301
---	+	---	+	---	+	---	+	---	+	---	+	0801,5901	=	1601,7301
---	+	---	+	---	+	---	+	---	+	---	+	0801,8201	=	3201,6801
---	+	---	+	---	+	---	+	---	+	---	+	0801,6001	=	0801,8301 =
												4101,6801		
---	+	---	+	---	+	---	+	---	+	---	+	0201,6801	=	0602,0801
---	+	---	+	---	+	---	+	---	+	---	+	0801,4601	=	4601,8401
---	+	---	+	---	+	---	+	---	+	---	+	0801,2301	=	0801,7101
---	+	---	+	---	+	---	+	---	+	---	+	0801,3201	=	3201,8401
---	+	---	+	---	+	---	+	---	+	---	+	0801,1802	=	1802,8401
---	+	---	+	---	+	---	+	---	+	---	+	0801,4101	=	4101,8401
---	+	---	+	---	+	---	+	---	+	---	+	0201,0801	=	0201,8401
---	+	---	+	---	+	---	+	---	+	---	+	1901,5901	=	1901,7301
---	+	---	+	---	+	---	+	---	+	---	+	0802,5901	=	0802,7301
---	+	---	+	---	+	---	+	---	+	---	+	1901,6001	=	1901,8301
---	+	---	+	---	+	---	+	---	+	---	+	0802,6001	=	0802,8301
---	+	---	+	---	+	---	+	---	+	---	+	0602,0802	=	0802,7501
---	+	---	+	---	+	---	+	---	+	---	+	1901,2301	=	1901,7101
---	+	---	+	---	+	---	+	---	+	---	+	0802,2301	=	0802,7101
---	+	---	+	---	+	---	+	---	+	---	+	0403,7501	=	6801,7101
---	+	---	+	---	+	---	+	---	+	---	+	0801,1901	=	1601,1901
---	+	---	+	---	+	---	+	---	+	---	+	0801,0802	=	0802,1601
---	+	---	+	---	+	---	+	---	+	---	+	0801,4801	=	4801,8401
---	+	---	+	---	+	---	+	---	+	---	+	0801,1601	=	1601,8401
---	+	---	+	---	+	---	+	---	+	---	+	0202,0802	=	0202,8401 =
												0203,0802		
---	+	---	+	---	+	---	+	---	+	---	+	1901,1901	=	1901,8401
---	+	---	+	---	+	---	+	---	+	---	+	0802,0802	=	0802,8401
---	+	---	+	---	+	---	+	---	+	---	+	5701,7701	=	5701,9401
---	+	---	+	---	+	---	+	---	+	---	+	1002,6801	=	1002,8401
---	+	---	+	---	+	---	+	---	+	---	+	6801,8001	=	8001,8401
---	+	---	+	---	+	---	+	---	+	---	+	0402,6801	=	0402,8401
---	+	---	+	---	+	---	+	---	+	---	+	5901,6801	=	5901,8401
---	+	---	+	---	+	---	+	---	+	---	+	6801,7701	=	6801,9401 =
												7701,8401		
---	+	---	+	---	+	---	+	---	+	---	+	6801,8201	=	8201,8401
---	+	---	+	---	+	---	+	---	+	---	+	6001,6801	=	6001,8401 =
												6801,8301	=	8301,8401
---	+	---	+	---	+	---	+	---	+	---	+	0602,6801	=	0602,8401
---	+	---	+	---	+	---	+	---	+	---	+	1002,7501	=	7301,8001
---	+	---	+	---	+	---	+	---	+	---	+	7301,7701	=	7301,9401
---	+	---	+	---	+	---	+	---	+	---	+	7501,7701	=	7501,9401
---	+	---	+	---	+	---	+	---	+	---	+	6001,7501	=	7501,8301
---	+	---	+	---	+	---	+	---	+	---	+	1902,6801	=	1902,8401
---	+	---	+	---	+	---	+	---	+	---	+	6801,9101	=	8401,9101
---	+	---	+	---	+	---	+	---	+	---	+	6801,9801	=	8401,9801
---	+	---	+	---	+	---	+	---	+	---	+	0801,8101	=	8101,8401
---	+	---	+	---	+	---	+	---	+	---	+	0801,0801	=	0801,8401
---	+	---	+	---	+	---	+	---	+	---	+	6801,7301	=	7301,8401
---	+	---	+	---	+	---	+	---	+	---	+	6801,7501	=	7501,8401
---	+	---	+	---	+	---	+	---	+	---	+	6801,7001	=	7001,8401
---	+	---	+	---	+	---	+	---	+	---	+	1401,6801	=	1401,8401
---	+	---	+	---	+	---	+	---	+	---	+	3501,6801	=	3501,8401
---	+	---	+	---	+	---	+	---	+	---	+	4501,6801	=	4501,8401
---	+	---	+	---	+	---	+	---	+	---	+	5701,6801	=	5701,8401
---	+	---	+	---	+	---	+	---	+	---	+	6801,6801	=	6801,8401
---	+	---	+	---	+	---	+	---	+	---	+	4801,6001	=	4801,8301
---	+	---	+	---	+	---	+	---	+	---	+	2301,4801	=	4801,7101
---	+	---	+	---	+	---	+	---	+	---	+	6001,8101	=	8101,8301

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-----+	++++-----+	-----+	-----+-	-----	-----+--	1601,6001 = 1601,8301
-----+	++++-----+	-----	-++-----	-----+-	-----+--	1002,4601 = 4601,5901
-----+	++++-----+	-----	-++-----	-----	-----+--	4601,6001 = 4601,8301
-----+	++++-----+	-----	-----	-----	-+-----	3201,6001 = 3201,8301 = 4101,8201
-----+	++++-----+	-----	-----	-----	-+-----	0201,8201 = 0602,3201
-----+	++++-----+	-----	-----	-----	-----+--	1802,6001 = 1802,8301
-----+	++++-----+	-----	-----	-----	-----+--	0201,6001 = 0201,8301 = 0602,4101
-----+	++++-----	+++-----	-++-----	-----	-----+--	1802,6401N = 4601,6401N
-----+	++++-----	+++-----	-++-----	-----	-----+--	0601,1802 = 0601,4601 = 4601,6901
-----+	++++-----	++-----	-++++--	-----	-----+--	1701,1802 = 1701,4601
-----+	++++-----	-+-----	-++++--	-----	-----+--	1802,8601 = 4601,8601
-----+	++++-----	-----+	-----	+-----	-----	2301,8101 = 7101,8101
-----+	++++-----	-----+	-----+	-----+	-----	1601,2301 = 1601,7101
-----+	++++-----	-----	-++-----	-----+	-----+--	2301,4601 = 4601,7101
-----+	++++-----	-----	-++-----	-----	-----+--	1802,4601 = 4601,4601
-----+	++++-----	-----	-----	-----+	-+-----	2301,3201 = 3201,7101
-----+	++++-----	-----	-----	-----+	-----+--	1802,2301 = 1802,7101
-----+	++++-----	-----	-----	-----+	-----+--	2301,4101 = 4101,7101
-----+	++++-----	-----	-----	-----+	-----+--	0201,2301 = 0201,7101
-----+	++++-----	-----	-----	-----	-----+--	0203,6001 = 0203,8301
-----+	++++-----	-----	-----	-----	-----+--	0202,6001 = 0202,8301
-----+	++++-----	-----	-----	-----	-----+--	0203,2301 = 0203,7101
-----+	++++-----	-----	-----	-----	-----+--	0202,2301 = 0202,7101
-----+	++++-----	-----	-----	-----	-----+--	2201,6001 = 2201,8301
-----+	++++-----	-----	-----	-----	-----+--	2201,2301 = 2201,7101
-----+	++++-----	-----	-----	-----	-----+--	4701,6001 = 4701,8301
-----+	++++-----	-----	-----	-----	-----+--	2301,4701 = 4701,7101
-----+	++++-----	-----	-----	-----	-----+--	2301,9501 = 7101,9501
-----+	++++-----	-----	-----	-----	-----+--	0403,6001 = 0403,8301
-----+	++++-----	-----	-----	-----	-----+--	6001,7101 = 7101,8301
-----+	++++-----	-----	-----	-----	-----+--	3001,7101 = 5501,7101
-----+	++++-----	-----	-----	-----	-----+--	0403,2301 = 0403,7101
-----+	++++-----	-----	-----	-----	-----+--	2301,7101 = 7101,7101
-----+	++++-----	-----	-----	-----	-----+--	0203,6301 = 1502,2201
-----+	++++-----	-----	-----	-----	-----+--	2201,5501 = 2201,5801
-----+	++++-----	-----	-----	-----	-----+--	0403,3001 = 0403,5501
-----+	++++-----	-----	-----	-----	-----+--	0102,6001 = 0102,8301
-----+	++++-----	-----	-----	-----	-----+--	6001,9701 = 8301,9701
-----+	++++-----	-----	-----	-----	-----+--	0501,6001 = 0501,8301
-----+	++++-----	-----	-----	-----	-----+--	3801,6001 = 3801,8301
-----+	++++-----	-----	-----	-----	-----+--	1502,6001 = 1502,8301
-----+	++++-----	-----	-----	-----	-----+--	1902,7701 = 1902,9401
-----+	++++-----	-----	-----	-----	-----+--	1902,6001 = 1902,8301
-----+	++++-----	+++++	+-----	-----	-----+--	7001,7701 = 7001,9401
-----+	++++-----	+++++	+-----	-----	-----+--	1401,7701 = 1401,9401
-----+	++++-----	+++-----	-+-----	-----	-----+--	7701,9101 = 9101,9401
-----+	++++-----	+++-----	-+-----	-----	-----+--	3501,7701 = 3501,9401
-----+	++++-----	+++-----	-+-----	-----	-----+--	7701,9801 = 9401,9801
-----+	++++-----	+++-----	-+-----	-----	-----+--	4501,7701 = 4501,9401
-----+	++++-----	+++-----	+-----	-----	-----+--	6001,6301 = 6301,8301
-----+	++++-----	+++-----	+-----	-----	-----+--	6001,6201 = 6201,8301
-----+	++++-----	+++-----	-+-----	-----	-----+--	1002,7701 = 1002,9401
-----+	++++-----	+++-----	-+-----	-----	-----+--	1002,8001 = 5901,8001
-----+	++++-----	+++-----	-+-----	-----	-----+--	7701,8001 = 8001,9401
-----+	++++-----	+++-----	-+-----	-----	-----+--	6001,8001 = 8001,8301
-----+	++++-----	+++-----	-+-----	-----	-----+--	0402,7701 = 0402,9401



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-----+ +--+-----+ -----	-----	-----	-----	-----+---	-----+---	0402,6001 = 0402,8301
-----+ +--+-----+ -----	-----	-----	-----	-----+---	-----+---	2301,6001 = 2301,8301
-----+ +--+-----+ -----	-----	-----	-----	-----+---	+-----	5901,7701 = 5901,9401
-----+ +--+-----+ -----	-----	-----	-----	-----	++-----	7701,8201 = 8201,9401
-----+ +--+-----+ -----	-----	-----	-----	-----	+-----	6001,7701 = 6001,9401 = 7701,8301 = 8301,9401
-----+ +--+-----+ -----	-----	-----	-----	-----	+-----	0602,7701 = 0602,9401
-----+ +--+-----+ -----	-----	-----	-----	-----	+-----	7701,7701 = 7701,9401
-----+ +--+-----+ -----	-----	-----	-----	-----	-+-----	6001,8201 = 8201,8301
-----+ +--+-----+ -----	-----	-----	-----	-----	-----++	0602,6001 = 0602,8301
-----+ +--+-----+ -----	-----	-----	-----	-----	-----+---	6001,6001 = 6001,8301
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	2301,3001 = 2301,5501
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	2301,3401 = 3401,9401
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0601,3801 = 3801,6401N
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	5501,9701 = 5801,9701
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0501,5501 = 0501,5801
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3801,5501 = 3801,5801
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1502,4501 = 1902,6701
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1502,3001 = 1502,5501
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3001,6301 = 5501,6301 = 5801,6301
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3001,6201 = 5501,6201
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3001,9501 = 5501,9501
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1002,8601 = 5901,8601
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0601,8601 = 6901,8601
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0901,1102 = 0901,1602
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3001,8601 = 8601,9301
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1102,1701 = 1602,1701
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1102,5401 = 1602,5401
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1001,1102 = 1001,1602
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	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 = 1401,1701
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0901,9801 = 1701,3501
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0601,0901 = 0901,6901
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0601,1701 = 1701,6901
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0601,6401N = 6401N,6401N = 6401N,6901
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0601,0601 = 0601,6901
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	0901,3001 = 0901,9301
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1701,3001 = 1701,9301
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1001,3001 = 1001,9301
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	2101,5501 = 2101,5801
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	5501,7001 = 5801,7001
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1401,9801 = 3501,9101
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	1401,6901 = 1401,9101
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	6901,9101 = 9101,9101
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3001,6701 = 5501,6701
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3001,3401 = 3401,5501
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3001,5801 = 5501,5801 = 5801,5801
-----+ +--+-----+ -----	-----	-----	-----	-----	-----	3001,5501 = 5501,5501





## SPECIFICITY TABLE

### DPB1 SSP typing

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

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified DPB1 alleles
<b>1<sup>3</sup></b>	245 bp	<b>515 bp</b>	010101-010103, 030101-030102, 0502, 0902, 1301, 1302, 1402, 1702, 2102, 2501, 260101-260102, 2901, 3701, 4401, 5001, 5201, 5601, 6101N, 7801, 7901, 8801, 9001, 9201
<b>2<sup>3</sup></b>	220 bp	<b>515 bp</b>	010101-010103, 030101-030102, 0502, 1402, 1702, 1801, 200101-200102, 2102, 2501, 260101-260102, 2701, 3601, 5001, 5201, 5601, 6101N, 7801, 7901, 8501, 8701, 8901, 9001, 9201
<b>3<sup>3,4,5</sup></b>	100 bp	430 bp	010101-010103, 0302, 040101-040102, 0902, 110101-110102, 1301, 1302, 1501, 2002, 2102, 260101-260102, 2701, 3101, 3301, 3901, 4001, 5601, 6501, 6601, 7201, 7401, 8501, 8901, 9001, 9601, 9901
<b>4<sup>3,4</sup></b>	140 bp	430 bp	010101-010103, 0302, 040101-040102, 2102, 2401, 260101-260102, 2701, 2801, 3101, 3901, 4001, 4901, 5101, 5301, 5601, 6501, 6601, 7201, 7601, 8501, 8901, 9001, 9201, 9601, 9901
<b>5</b>	235 bp	<b>515 bp</b>	010101-010103, 0801, 0802, 1901, 2102, 5001, 5701, 6501, 6801, 7301, 7501, 8401, 9001
<b>6</b>	165 bp	430 bp	010101-010103, 0902, 1301, 2102, 260101-260102, 6501
<b>7</b>	160 bp	430 bp	010101-010103, 0902, 1301, 1302, 2102, 260101-260102, 5601, 6501, 7601, 9001, 9201
<b>8</b>	210 bp	<b>515 bp</b>	0102, 020102-020106, 0202, 0203, 040101-040102, 0402, 0403, 0501, 0602, 0801, 0802, 1502, 1601, 1802, 1901, 1902, 2201, 2301, 2401, 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
<b>9<sup>3</sup></b>	165 bp	430 bp	0102, 020102-020105, 020106 <sup>weakly</sup> , 0202, 0203, 0402, 0403, 0501, 0601, 0602, 0802, 1002, 1102, 1502, 1601, 1602, 1701, 1801,

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			1802, 1901, 1902, 200101-200102, 2101, 2201, 2301, 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
<b>10</b>	220 bp	<b>515 bp</b>	020102-020106, 0202, 0203, 0403, 0801, 0802, 1601, 1802, 1901, 2201, 3201, 3301, 410101-410102, 4601, 4701, 4801, 7101, 8101, 9501
<b>11</b>	190 bp	<b>515 bp</b>	020102-020106, 040101-040102, 0402, 0602, 1002, 1102, 1602, 1802, 2301, 2401, 3201, 3301, 410101-410102, 4601, 4701, 5101, 5901, 6001, 6601, 7101, 7201, 7301, 7501, 7701, 8001, 8101, 8201, 8301, 8601, 9401, 9901
<b>12<sup>3,4</sup></b>	80 bp	<b>515 bp</b>	020102, 020103 <sup>weakly</sup> , 020104-020106, 0601, 0801, 0901, 1001, 1102, 1601, 1602, 1701, 1802, 2901, 3201, 3701, 410101-410102, 4401, 4601, 4801, 6401N, 8101, 8601, 8801, 9301
<b>13</b>	180 bp	430 bp	0102, 0202, 0203, 0501, 0802, 1901, 2201, 2401, 3801, 4701, 9701
<b>14<sup>4</sup></b>	105 bp	430 bp	0102, 0202, 0203, 0501, 1702, 2101, 2201, 3601, 3801, 9701
<b>15</b>	200 bp	430 bp	0102, 0202, 0203, 1502, 1902, 4801, 9501, 9901
<b>16<sup>3,4</sup></b>	80 bp	430 bp	030101-030102, 0402, 0502, 0602, 1002, 1401, 1402, 1801, 1902, 200101-200102, 2501, 2801, 3501, 4501, 4901, 5001, 5101, 5301, 5701, 5901, 6001, 6101N, 6801, 7001, 7301, 7501, 7601, 7701, 7801, 7901, 8001, 8201, 8301, 9101, 9201, 9801
<b>17</b>	260 bp	<b>515 bp</b>	030101-030102, 0502, 0601, 0901, 0902, 1001, 110101-110102, 1301, 1302, 1401, 1402, 1701, 1702, 200101-200102, 2101, 2501, 260101-260102, 2701, 2901, 3001, 3501, 3601, 3701, 4401, 4501, 5201, 5401, 5501, 5601, 5801, 6101N, 6401N, 6701, 6901, 7001, 7601, 7801, 7901, 8501, 8701, 8801, 9101, 9201, 9301, 9801
<b>18</b>	180 bp	430 bp	030101-030102, 0502, 0601, 0901, 1401, 1402, 1701, 200101-200102, 2901, 3501, 4401, 6101N, 6401N, 6901, 7001, 7601, 7801, 8601, 8801, 9101, 9201, 9801
<b>19</b>	200 bp	430 bp	030101-030102, 0502, 0601, 110101-110102, 1401, 1402, 1702, 200101-200102, 2501,

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			2901, 4401, 4501, 5201, 5601, 6101N, 6401N, 6701, 6901, 7001, 7401, 7601, 7801, 8701, 9101, 9201
<b>20</b>	235 bp	<b>515 bp</b>	030101-030102, 0502, 0901, 0902, 1001, 1301, 1302, 1401, 1402, 1702, 2501, 260101-260102, 2901, 3501, 3701, 4401, 4501, 5201, 5401, 5601, 6101N, 6701, 7001, 7601, 7801, 7901, 8801, 9201
<b>21<sup>3,4</sup></b>	100 bp	430 bp	030101-030102, 0502, 0901, 1401, 1402, 2901, 3501, 4401, 5001, 5701, 6101N, 7001, 7601, 7801, 8801, 9201
<b>22<sup>3</sup></b>	185 bp	430 bp	040101-040102, 2002, 2401, 3301, 3901, 4901, 5101, 6601, 7201, 8101, 9601, 9901
<b>23<sup>4</sup></b>	145 bp	430 bp	0102, 0501, 1502, 1702, 1902, 3401, 3601, 3801, 6201, 6301, 9701
<b>24<sup>6</sup></b>	195, 265 bp	<b>515 bp</b>	0203, 0302, 0403, 0501, 0801, 0802, 1601, 1901, 2201, 3101, 3801, 5701, 6301, 6501, 6801, 8401, 9701
<b>25<sup>7</sup></b>	190, 265 bp	<b>515 bp</b>	0501, 1702, 2101, 2201, 3601, 3801, 4401, 5801, 6301, 7001, 9701
<b>26<sup>4</sup></b>	75 bp	430 bp	0601, 0901, 1701, 2901, 4401, 4601, 6401N, 8601, 8801
<b>27<sup>4</sup></b>	95 bp	430 bp	0601, 1002, 1701, 200101-200102, 4601, 6401N, 6901, 8001, 8601, 9101, 9801
<b>28</b>	200 bp	<b>515 bp</b>	0901, 0902, 1001, 1102, 1301, 1302, 1602, 1701, 2002, 2101, 260101-260102, 2701, 3001, 3501, 3601, 3701, 5401, 5501, 5801, 6601, 7901, 8501, 8601, 8801, 9301, 9801
<b>29</b>	220 bp	<b>515 bp</b>	0901, 1001, 1602, 1701, 3001, 5401, 5501, 5801, 8601
<b>30</b>	185 bp	430 bp	0901, 1401, 1701, 3501, 7601, 8601, 9101, 9801
<b>31<sup>4</sup></b>	120 bp	430 bp	010101-010103, 0302, 0403, 0501, 0801, 0802, 0902, 1001, 110101-110102, 1301, 1302, 1601, 1702, 1901, 2101, 2102, 2201, 2501, 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
<b>32<sup>4,8</sup></b>	75, 195 bp	430 bp	110101-110102, 7801
<b>33<sup>4</sup></b>	140 bp	430 bp	0902, 1301, 1302, 2002, 3301, 8101
<b>34</b>	210 bp	<b>515 bp</b>	1401, 4501, 6701, 7601, 9101
<b>35</b>	195 bp	430 bp	1501, 7401
<b>36</b>	260 bp	<b>515 bp</b>	1501, 1801, 2801, 3401, 4001, 5301, 6201

<b>37<sup>9</sup></b>	185, 255 bp	<b>515 bp</b>	0102 <sup>?</sup> , 0203 <sup>?</sup> , 0302 <sup>?</sup> , 0402, 0403 <sup>?</sup> , 0601 <sup>?</sup> , 0801 <sup>?</sup> , 1001-1102 <sup>?</sup> , 1302 <sup>?</sup> , 1402 <sup>?</sup> , 1501, 1502- 1802 <sup>?</sup> , 1902-2701 <sup>?</sup> , 2801, 290101-3901 <sup>?</sup> , 4001, 410101-410102 <sup>?</sup> , 4401-5201 <sup>?</sup> , 5301, 5401- 7301 <sup>?</sup> , 7401, 7501-9901 <sup>?</sup>
<b>38<sup>4</sup></b>	100 bp	<b>515 bp</b>	0403, 1502, 2301, 3401, 5201, 5501, 5801, 6201, 6301, 6701, 7101, 8701, 9501
<b>39</b>	210 bp	<b>515 bp</b>	0302, 1002, 2801, 3101, 3401, 5701, 5901, 7201, 7301, 9501
<b>40<sup>4,10</sup></b>	95, 180 bp	430 bp	0102 <sup>?</sup> , 0203 <sup>?</sup> , 0302 <sup>?</sup> , 0403 <sup>?</sup> , 0601 <sup>?</sup> , 0801 <sup>?</sup> , 0902, 1001-1102 <sup>?</sup> , 1302 <sup>?</sup> , 1402 <sup>?</sup> , 1502-1802 <sup>?</sup> , 1902-2901 <sup>?</sup> , 3001, 3101-410102 <sup>?</sup> , 4401-5301 <sup>?</sup> , 5401, 5501-9901 <sup>?</sup>
<b>41<sup>4,11</sup></b>	75, 230 bp	<b>515 bp</b>	3101, 3401, 7701, 9401
<b>42<sup>4,12</sup></b>	140, 185, 285 bp	430 bp	3201, 8201, 9701
<b>43<sup>4,13</sup></b>	65, 190 bp	430 bp	0102 <sup>?</sup> , 0203 <sup>?</sup> , 0302 <sup>?</sup> , 0403 <sup>?</sup> , 0501, 0502, 0601 <sup>?</sup> , 0801 <sup>?</sup> , 1001-1102 <sup>?</sup> , 1302 <sup>?</sup> , 1402 <sup>?</sup> , 1502- 1802 <sup>?</sup> , 1901, 1902-3301 <sup>?</sup> , 3401, 3501-410102 <sup>?</sup> , 4401-6101N <sup>?</sup> , 6201, 6301-9901 <sup>?</sup>
<b>44<sup>14</sup></b>	195, 245, 275 bp	430 bp	1402, 2102, 3801, 6401N
<b>45<sup>4,15</sup></b>	120, 190, 245 bp	430 bp	1002, 1802, 2002, 3901, 4601, 4901, 8001, 8601, 9601
<b>46</b>	205 bp	<b>515 bp</b>	410101-410102, 6001, 8301, 9601
<b>47<sup>16</sup></b>	165, 255 bp	<b>515 bp</b>	0102 <sup>?</sup> , 020102-020106, 0202, 0203 <sup>?</sup> , 0302 <sup>?</sup> , 040101-040102, 0403 <sup>?</sup> , 0601 <sup>?</sup> , 0602, 0801 <sup>?</sup> , 0802, 1001-1102 <sup>?</sup> , 1302 <sup>?</sup> , 1402 <sup>?</sup> , 1502-1802 <sup>?</sup> , 1902-410102 <sup>?</sup> , 4401, 4501-9901 <sup>?</sup>
<b>48<sup>17</sup></b>	210, 280 bp	<b>515 bp</b>	6101N, 8501

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

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective length of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

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

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

In addition, wells number 2, 5, 8, 10, 11, 12, 17, 20, 24, 25, 28, 29, 34, 36, 37, 38, 39, 41, 46, 47 and 48 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

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

<sup>3</sup>Primer mixes 1, 2, 3, 4, 9, 12, 16, 21 and 22 may yield less specific PCR products than the other DPB1 primer mixes.

<sup>4</sup>Specific PCR fragments shorter than 150 base pairs are less intense and not as sharp as longer specific bands.

<sup>5</sup>Primer mix 3 may give rise to non-specific amplifications and primer dimer formation.

<sup>6</sup>Primer mix 24: Specific PCR fragment of 195 bp in the DPB1\*0203 allele. Specific PCR fragment of 265 bp in the DPB1\*0302, 0403, 0501, 0801, 0802, 1601, 1901, 2201, 3101, 3801, 5701, 6301, 6501, 6801, 8401 and 9701 alleles.

<sup>7</sup>Primer mix 25: Specific PCR fragment of 190 bp in the DPB1\*0501, 1702, 2101, 2201, 3601, 3801, 4401, 5801, 6301 and 9701 alleles. Specific PCR fragment of 265 bp in the DPB1\*7001 allele.

<sup>8</sup>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.

<sup>9</sup>Primer mix 37: Specific PCR fragment of 185 bp in the DPB1\*1501, 2801, 5301, 4001 and 7401 alleles. Specific PCR fragment of 255 bp in the DPB1\*0402 allele. The 3<sup>rd</sup> exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 37 matching the DPB1\*0402 sequence motif in the 3<sup>rd</sup> exon may amplify other DPB1 alleles.

<sup>10</sup>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 1<sup>st</sup> 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 1<sup>st</sup> exon may amplify other DPB1 alleles.

Primer mix 40 may give rise to nonspecific amplifications.

<sup>11</sup>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.

<sup>12</sup>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.

<sup>13</sup>Primer mix 43: Specific PCR fragment of 65 bp in the DPB1\*0501, 0502 and 1901 alleles. Specific PCR fragment of 190 bp in the DPB1\*3401 and 6201 alleles. The 4<sup>th</sup> exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 43 matching the DPB1\*0501, 0502 and 1901 sequence motif in the 4<sup>th</sup> exon may amplify other DPB1 alleles.

<sup>14</sup>Primer mix 44: Specific PCR fragment of 195 bp in the DPB1\*1402 and 2102 alleles. Specific PCR fragment of 245 bp in the DPB1\*3801 allele. Specific PCR fragment of 275 bp in the DPB1\*6401N allele.

<sup>15</sup>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.

<sup>16</sup>Primer mix 47: Specific PCR fragment of 165 bp in the DPB1\*4401 allele. Specific PCR fragment of 255 bp in the DPB1\*020102-0202, 040101-040102, 0602 and 0802 alleles.

The 3<sup>rd</sup> exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 47 matching the DPB1\*0201, 0202, 0401, 0602 and 0802 sequence motif in the 3<sup>rd</sup> exon may amplify other DPB1 alleles.

<sup>17</sup>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.

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

INTERPRETATION TABLE																								
DPB1 SSP typing																								
Amplification patterns of the DPB1*0101 to DPB1*9901 alleles																								
	Well <sup>6</sup>																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
PCR product																								265
Length of int.	515	515	430	430	515	430	430	515	430	515	515	515	430	430	430	430	515	430	430	515	430	430	430	515
pos. control <sup>1</sup>																								
5'-primer(s) <sup>2</sup>	9	9	36	36	11	35	36	9	35	9	35	56	9	35	28	56	11	11	11	11	57	36	35	9
	5'-Tg T <sup>3</sup>	5'-Tg T <sup>3</sup>	5'-C gC <sup>3</sup>	5'-C gC <sup>3</sup>	5'-g gg <sup>3</sup>	5'-g TA <sup>3</sup>	5'-C gC <sup>3</sup>	5'-T TT <sup>3</sup>	5'-Ag C <sup>3</sup>	5'-T TT <sup>3</sup>	5'-g TT <sup>3</sup>	5'-T gA <sup>3</sup>	5'-T TT <sup>3</sup>	5'-Ag C <sup>3</sup>	5'-gA g <sup>3</sup>	5'-T gA <sup>3</sup>	5'-g TT <sup>3</sup>	5'-g TT <sup>3</sup>	5'-g TT <sup>3</sup>	5'-g TT <sup>3</sup>	5'-gAC <sup>3</sup>	5'-C gC <sup>3</sup>	5'-Ag C <sup>3</sup>	5'-T TT <sup>3</sup>
			36	36	11	35	36		36						35		11	11	11	11		36		
			5'-C gC <sup>3</sup>	5'-C gC <sup>3</sup>	5'-g gg <sup>3</sup>	5'-g TA <sup>3</sup>	5'-C gC <sup>3</sup>		5'-C gT <sup>3</sup>						5'-Ag C <sup>3</sup>		5'-g TT <sup>3</sup>	5'-g TT <sup>3</sup>	5'-g TT <sup>3</sup>	5'-g TT <sup>3</sup>		5'-C gC <sup>3</sup>		
3'-primer(s) <sup>3</sup>	76	69	55	69	76	76	76	65	76	69	84	69	55	55	84	69	84	57	65	76	76	84	69	60
	5'-CA T <sup>3</sup>	5'-CTT <sup>3</sup>	5'-C Ag <sup>3</sup>	5'-CTT <sup>3</sup>	5'-CA T <sup>3</sup>	5'-CA T <sup>3</sup>	5'-CA T <sup>3</sup>	5'-gAT <sup>3</sup>	5'-TAT <sup>3</sup>	5'-CTC <sup>3</sup>	5'-C gC <sup>3</sup>	5'-CTC <sup>3</sup>	5'-gC C <sup>3</sup>	5'-gC C <sup>3</sup>	5'-C gC <sup>3</sup>	5'-CTT <sup>3</sup>	5'-C gT <sup>3</sup>	5'-TA g <sup>3</sup>	5'-gAg <sup>3</sup>	5'-CA T <sup>3</sup>	5'-CA T <sup>3</sup>	5'-C gC <sup>3</sup>	5'-CTT <sup>3</sup>	5'-gTg <sup>3</sup>
							65	76																84
							5'-g gT <sup>3</sup>	5'-CAT <sup>3</sup>																5'-C gT <sup>3</sup>
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DPB1 allele <sup>4</sup>																								
*010101-010103	1	2	3	4	5	6	7																	
*0102								8	9				13	14	15								23	
*020102, 020104-020105								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
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



INTERPRETATION TABLE																											
DPB1 SSP typing																											
Amplification patterns of the DPB1*0101 to DPB1*9901 alleles																											
Well <sup>6</sup>																											
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48				
190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	195	120	205	165	210	Length of spec.			
265							195					255			180	230	185	190	245	190		255	280	PCR product			
																	285		275	245							
515	430	430	515	515	430	430	430	430	515	430	515	515	515	515	430	515	430	430	430	430	515	515	515	Length of int. pos. control <sup>1</sup>			
9	57	57	11	9	9	57	33	36	9	33	11	36	35	9	-22	in <sup>5</sup>	9	35	7	17	9	35	11	5'-primer(s) <sup>2</sup>			
5'-Tg C <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-g TT <sup>3'</sup>	5'-Tg C <sup>3'</sup>	5'-Tg C <sup>3'</sup>	5'-gAg <sup>3'</sup>	5'-gg C <sup>3'</sup>	5'-C gC <sup>3'</sup>	5'-Tg C <sup>3'</sup>	5'-gg C <sup>3'</sup>	5'-g gg <sup>3'</sup>	5'-C gC <sup>3'</sup>	5'-Ag C <sup>3'</sup>	5'-T TT <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-CAT <sup>3'</sup>	5'-T TT <sup>3'</sup>	5'-Ag C <sup>3'</sup>	5'-TAA <sup>3'</sup>	5'-ACA <sup>3'</sup>	5'-T TT <sup>3'</sup>	5'-Ag C <sup>3'</sup>	5'-g TT <sup>3'</sup>				
35			11				33	36		33	11	36	36		9	9		#	17	35		#	11				
5'-Ag C <sup>3'</sup>			5'-g TT <sup>3'</sup>				5'-gg C <sup>3'</sup>	5'-C gC <sup>3'</sup>		5'-gg C <sup>3'</sup>	5'-g gg <sup>3'</sup>	5'-C gC <sup>3'</sup>	5'-C gT <sup>3'</sup>		5'-Tg C <sup>3'</sup>	5'-T TT <sup>3'</sup>		5'-AAG <sup>3'</sup>	5'-AC C <sup>3'</sup>	5'-g TA <sup>3'</sup>		5'-CC T <sup>3'</sup>	5'-g TT <sup>3'</sup>				
							73					#							32	57							
							5'-g CT <sup>3'</sup>					5'-CC T <sup>3'</sup>							5'-CC C <sup>3'</sup>	5'-gAC <sup>3'</sup>							
84	69	76	65	69	57	84	84	69	65	84	84	84	55	65	-4	12	43	84	84	84	64	76	67	3'-primer(s) <sup>3</sup>			
5'-C gT <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-TAT <sup>3'</sup>	5'-gAT <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-TA g <sup>3'</sup>	5'-C gT <sup>3'</sup>	5'-C gT <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-gAg <sup>3'</sup>	5'-C gA <sup>3'</sup>	5'-C gA <sup>3'</sup>	5'-C gA <sup>3'</sup>	5'-C Ag <sup>3'</sup>	5'-gAg <sup>3'</sup>	5'-CAC <sup>3'</sup>	5'-g CA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-C gA <sup>3'</sup>	5'-C gT <sup>3'</sup>	5'-C gC <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-CA T <sup>3'</sup>	5'-CTA <sup>3'</sup>			
		76										#			55	70	57	#			65	#	91				
		5'-CAT <sup>3'</sup>										5'-CAT <sup>3'</sup>			5'-gC C <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-A CA <sup>3'</sup>	5'-CAT <sup>3'</sup>			5'-gAA <sup>3'</sup>	5'-CAG <sup>3'</sup>	5'-g gT <sup>3'</sup>				
																72	91				65		91				
																5'-CAA <sup>3'</sup>	5'-g gT <sup>3'</sup>				5'-g gT <sup>3'</sup>		5'-g gT <sup>3'</sup>				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.			
																								DPB1 allele <sup>4</sup>			
						31																		*010101-010103			
																								*0102			
																							47	*020102, 020104-020105			
																							47	*020103			
																							47	*020106			
																							47	*0202			
																								*0203			
																								*030101-030102			
						31																		*0302			
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.: **29F**

Lot-specific Information

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Length of spec.	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195
PCR product																								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
*040101-040102			3	4				8			11										22			
*0402								8	9		11					16								
*0403								8	9	10														24
*0501								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								
*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
*2301								8	9		11													
*2401				4				8			11		13									22		
*2501	1	2														16	17		19	20				
*260101-260102	1	2	3	4		6	7										17			20				
*2701		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.: **29F**

Lot-specific Information

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190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	195	120	205	165	210	Length of spec.	
265							195					255			180	230	185	190	245	190		255	280	PCR product	
																	285		275	245					
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.	
																						47			*040101-040102
												37													*0402
						31						? 38			?			?				?			*0403
25						31												43							*0501
																		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							?			?			?				?			*1701
25						31						?			?			?				?			*1702
											36	?			?			?				?			*1801
												?			?			?				45	?		*1802
						31												43							*1901
												?			?			?				?			*1902
		27										?			?			?				?			*200101-200102
			28					33				?			?			?		45		?			*2002
25			28			31						?			?			?				?			*2101
						31						?			?			?	44			?			*2102
25						31						?			?			?				?			*2201
												?	38	?				?				?			*2301
												?			?			?				?			*2401
						31						?			?			?				?			*2501
			28			31						?			?			?				?			*260101-260102
			28			31						?			?			?				?			*2701
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.: **29F**

Lot-specific Information

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Length of spec.	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195	
PCR product																									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	
*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		
*3501																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												
*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								8	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	
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.: **29F**

Lot-specific Information

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190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	195	120	205	165	210	Length of spec.
265							195					255			180	230	185	190	245	190		255	280	PCR product
																	285		275	245				
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.
											36	37		39	?			?				?		*2801
	26											?			?			?				?		*2901
			28	29		31						?			40			?				?		*3001
						31						?		39	?	41		?				?		*3101
												?			?		42	?				?		*3201
								33				?			?			?				?		*3301
											36	?	38	39	?	41		43				?		*3401
			28		30							?			?			?				?		*3501
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
												?			?			?				?		*4801
												?			?			?			45	?		*4901
												?			?			?				?		*5001
												?			?			?				?		*5101
						31						?	38		?			?				?		*5201
											36	37			?			?				?		*5301
			28	29		31						?			40			?				?		*5401
			28	29		31						?	38		?			?				?		*5501
						31						?			?			?				?		*5601
												?		39	?			?				?		*5701
25			28	29		31						?	38		?			?				?		*5801
												?		39	?			?				?		*5901
												?			?			?			46	?		*6001
												?			?			?				?		*6101N
											36	?	38		?			43				?		*6201
25						31						?	38		?			?				?		*6301
	26	27										?			?			?	44			?		*6401N
						31						?			?			?				?		*6501
			28									?			?			?				?		*6601
						31			34			?	38		?			?				?		*6701
						31						?			?			?				?		*6801
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.



Length of spec.	245	220	100	140	235	165	160	210	165	220	190	80	180	105	200	80	260	180	200	235	100	185	145	195	
PCR product																									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	
*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								
*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 <sup>4</sup>																									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells. Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DPB1 typing. In addition, wells number 2, 5, 8, 10, 11, 12, 17, 20, 24, 25, 28, 29, 34, 36, 37, 38, 39, 41, 46, 47 and 48 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

190	75	95	200	220	185	120	75	140	210	195	260	185	100	210	95	75	140	65	195	120	205	165	210	Length of spec.	
265							195					255			180	230	185	190	245	190		255	280	PCR product	
																	285		275	245					
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.	
		27										?			?			?				?		*6901	
25												?			?			?				?		*7001	
												?	38		?			?				?		*7101	
												?		39	?			?				?		*7201	
												?		39	?			?				?		*7301	
										35		37			?			?				?		*7401	
												?			?			?				?		*7501	
					30				34			?			?			?				?		*7601	
												?			?	41		?				?		*7701	
							32					?			?			?				?		*7801	
		28				31						?			?			?				?		*7901	
		27										?			?			?		45		?		*8001	
								33				?			?			?				?		*8101	
												?			?		42	?				?		*8201	
												?			?			?			46	?		*8301	
						31						?			?			?				?		*8401	
		28				31						?			?			?				?	48	*8501	
	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 <sup>4</sup>	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

In the presence of a specific amplification the intensity of the control band often decreases.  
<sup>2</sup>The codon, in the 2<sup>nd</sup> exon, matching the specificity-determining 3'-end of the primer is given. Codon numbering as on the on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given. Empty spaces indicate codon boundaries.  
<sup>3</sup>The codon, in the 2<sup>nd</sup> exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given. Empty spaces indicate codon boundaries.

<sup>4</sup>The 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.

<sup>5</sup>Matching sequences within the 1<sup>st</sup> intron.

<sup>6</sup>Primer mix 24: Specific PCR fragment of 195 bp in the DPB1\*0203 allele. Specific PCR fragment of 265 bp in the DPB1\*0302, 0403, 0501, 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\*0501, 1702, 2101, 2201, 3601, 3801, 4401, 5801, 6301 and 9701 alleles. Specific PCR fragment of 265 bp in the DPB1\*7001 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 37: Specific PCR fragment of 185 bp in the DPB1\*1501, 2801, 5301, 4001 and 7401 alleles. Specific PCR fragment of 255 bp in the DPB1\*0402 allele. The 3<sup>rd</sup> exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 47 matching the DPB1\*0402 sequence motif in the 3<sup>rd</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> exon may amplify other DPB1 alleles.

Primer mix 40 may give rise to nonspecific amplifications.

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\*0501, 0502 and 1901 alleles. Specific PCR fragment of 190 bp in the DPB1\*3401 and 6201 alleles. The 4<sup>th</sup> exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 43 matching the DPB1\*0501, 0502 and 1901 sequence motif in the 4<sup>th</sup> exon may amplify other DPB1 alleles.

Primer mix 44: Specific PCR fragment of 195 bp in the DPB1\*1402 and 2102 alleles. Specific PCR fragment of 245 bp in the DPB1\*3801 allele. Specific PCR fragment of 275 bp in the DPB1\*6401N allele.

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\*4401 allele. Specific PCR fragment of 255 bp in the DPB1\*020102-0202, 040101-040102, 0602 and 0802 alleles.

The 3<sup>rd</sup> exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 47 matching the DPB1\*0201, 0202, 0401, 0602 and 0802 sequence motif in the 3<sup>rd</sup> 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.

CELL LINE VALIDATION SHEET																				
DPB1 SSP kit																				
					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					200737501	200737502	200737503	200853204	200737505	200737506	200737507	200737508	200737509	200737510	200737511	200737512	200737513	200737514	200737515	200737516
	IHWC cell line		DPB1	Lot No.:																
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	9007 DEM		*0301	*0401	+	+	+	+	-	-	-	+	-	-	+	-	-	-	-	-
9	9026 YAR		*0401		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
10	9107 LKT3		*0501		-	-	-	-	-	-	-	+	+	-	-	+	+	-	-	-
11	9051 PITOUT		*0401		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
12	9052 DBB		*0401		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
13	9067 BTB		*0401		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
14	9071 OLGA		*0301	*0402	+	+	-	-	-	-	-	+	+	-	+	-	-	-	-	+
15	9075 DKB		*0401		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
16	9037 SWEIG007		*0402		-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
17	9008 WILJON		*0201	*2301	-	-	-	-	-	-	-	+	+	+	+	-	-	-	-	-
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	-	-	+	+	-	-	-	+	+	+	+	-	-	-	-	-



CELL LINE VALIDATION SHEET																									
DPB1 SSP kit																									
					Well																				
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32					
					200737517	200737518	200737519	200737520	200737521	200737522	200737523	200737524	200737525	200853226	200737527	200737528	200737529	200737530	200737531	200737532					
				Lot No.:	IHC 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	9007	DEM	*0301	*0401	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-					
9	9026	YAR	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-					
10	9107	LKT3	*0501		-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-					
11	9051	PITOUT	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-					
12	9052	DBB	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-					
13	9067	BTB	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-					
14	9071	OLGA	*0301	*0402	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-					
15	9075	DKB	*0401		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-					
16	9037	SWEIG007	*0402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
17	9008	WILJON	*0201	*2301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
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	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-					



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
					200737533	200737534	200737535	200737536	200737537	200737538	200737539	200737540	200737541	200737542	200737543	200737544	200737545	200737546	200853247	200853248
	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	9007 DEM		*0301	*0401	-	-	-	-	-	-	-	-	-	-	-	-	+			
9	9026 YAR		*0401		-	-	-	-	-	-	-	-	-	-	-	-	+			
10	9107 LKT3		*0501		-	-	-	-	-	-	-	-	+	-	-	-	-			
11	9051 PITOUT		*0401		-	-	-	-	-	-	-	-	-	-	-	-	+			
12	9052 DBB		*0401		-	-	-	-	-	-	-	-	-	-	-	-	+			
13	9067 BTB		*0401		-	-	-	-	-	-	-	-	-	-	-	-	+			
14	9071 OLGA		*0301	*0402	-	-	-	-	+	-	-	-	-	-	-	-	-			
15	9075 DKB		*0401		-	-	-	-	-	-	-	-	-	-	-	-	+			
16	9037 SWEIG007		*0402		-	-	-	-	+	-	-	-	-	-	-	-	-			
17	9008 WILJON		*0201	*2301	-	-	-	-	-	+	-	-	-	-	-	-	+			
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	-	-	-	-	-	-	-	-	-	-	-	-	+			

## CERTIFICATE OF ANALYSIS

### Olerup SSP® DPB1 SSP

Product number: 101.311-24/04 – including *Taq* pol.  
Lot number: 29F  
Expiry date: 2010-October-01  
Number of tests: 24 tests – Product No. 101.311-24  
4 tests – Product No. 101.311-04  
Number of wells per test: 48

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2007-375-01	17	2007-375-17	33	2007-375-33
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	2007-375-06	22	2007-375-22	38	2007-375-38
7	2007-375-07	23	2007-375-23	39	2007-375-39
8	2007-375-08	24	2007-375-24	40	2007-375-40
9	2007-375-09	25	2007-375-25	41	2007-375-41
10	2007-375-10	26	2008-532-26	42	2007-375-42
11	2007-375-11	27	2007-375-27	42	2007-375-43
12	2007-375-12	28	2007-375-28	43	2007-375-44
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	2007-375-15	31	2007-375-31	47	2008-532-47
16	2007-375-16	32	2007-375-32	48	2008-532-48

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

No DNAs carrying the alleles to be amplified by primer solutions 41, 44 and 46 were available. Additional 5'-primers in primer solutions 15, 25 and 32 were not possible to test. Additional 3'-primers in primer solutions 8, 24 and 48 were not possible to test. In primer solutions 41 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'-primer and one of the 5'-primers, the other the 5'-primer was not possible to test.

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

**Date of approval:** 2009-May-26

**Approved by:**

**Quality Control, Supervisor**

Lot No.: **29F**

Lot-specific Information

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

## Declaration of Conformity

**Product name:** *Olerup* SSP<sup>®</sup> DPB1  
**Product number:** 101.311-24/04  
**Lot number:** 29F

**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 9001:2000, 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-May-26

Olle Olerup  
Managing Director

Lot No.: **29F**

Lot-specific Information

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

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