101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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"Instructions for Use" (IFU)

Lot No.: 9N1   **Lot-specific information**

Olerup SSP® DPB1

Product number:	**101.311-24/04 – including *Taq* pol.**
	101.311-24u/04u – without *Taq* pol.
Lot number:	**9N1**
Expiry date:	**2026-03-01**
Number of tests:	**24 tests – Product No. 101.311-24/24u**
	4 tests – Product No. 101.311-04/04u
Number of wells per test:	**95+1**
Storage - pre-aliquoted primers:	**dark, between -15°C and -25°C**
- PCR Master Mix:	**between -15°C and -25°C**
- Adhesive PCR seals	**RT**

This Product Description is only valid for Lot No. 9N1.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP® DPB1 LOT (8L1)

- The product documentation has been updated for new alleles of IMGT 3.47.0.
- The kit resolution focuses on common and well documented (CWD) alleles[1].

[1]As described in section Uniquely Identified Alleles.

The DPB1 primer set, specificity and interpretation tables have been updated for the DPB1 alleles described since the previous *Olerup* SSP® DPB1 lot was made **(Lot No. 8L1)**.

The DPB1 primer set is unchanged compared to the previous *Olerup* SSP® DPB1 **(Lot no. 8L1)**

[1]S. J. Mack, P. Cano, J. A. Hollenbach et al.
Common and well-documented HLA alleles: 2012 update to the CWD catalogue. Tissue Antigens, 2013, 81, 194–203
Changes in revision R01 compared to R00:
1. In primer mix 48 the specific PCR product of 280 base pairs may give rise to a lower yield of HLA-specific PCR product than the other DPB1 primer mixes. Optimized gel electrophoresis run time may need to be considered to ensure separation from the control band.
Changes in revision R02 compared to R01:
1. Primer mixes 78 and 79 do not amplify the DPB1*224:01 and 1159:01 alleles.
The corrections above have been implemented in the Specificity and Interpretation tables.
Changes in revision R03 compared to R02:
1. Primer mix 90 does not amplify the DPB1*415:01 allele.
The correction above has been implemented in the Specificity and Interpretation tables.
Changes in revision R04 compared to R03:
1. Primer mixes 76 and 77 do not amplify the DPB1*215:01 allele.
2. Primer mixes 27 and 45 amplify the DPB1*215:01 allele
The corrections above have been implemented in the Specificity and Interpretation tables

CE

For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

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Well **96** contains Negative Control primer pairs, that will amplify the majority of the _Olerup_ SSP® HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the positive control primer pair is 200 base pairs.

Length of PCR product	105	200	105	80	75	80	85
5'-primer[1]	164	340	440	45	45	43	36
	5'-CAC3'	5'-Agg3'	5'-TTA3'	5'-Tgg3'	5'-Tgg3'	5'-Tgg3'	5'-TAC3'
							36
							5'-TAT3'
3'-primer[2]	231	2nd I	507	59	58	57	47
	5'-TgC3'	5'-AAA3'	5'-TTg3'	5'-CTC3'	5'-ggC3'	5'-CTC3'	5'-ACA3'
							48
							5'-gCA3'
							48
							5'-gCC3'
							52
							5'-TgT3'
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

[1]The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

[2]The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

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Lot No.: 9N1   **Lot-specific information**

PRODUCT DESCRIPTION

DPB1 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DPB1*01:01 to DPB1*1299:01N alleles.

PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 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
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	NC

The 96 well cut PCR plate is marked with 'DPB1' in silver/gray ink.
Well No. 1 is marked with the Lot No. '9N1'.
Wells 1 to 95 – DPB1 high resolution primers.
Well 96 – Negative Control (NC).
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.

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. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the DPB1 alleles, i.e. **DPB1*01:01 to DPB1*1299:01N alleles**, recognized by the HLA Nomenclature Committee in January 2022[1,2] will be amplified by the primers in the DPB1 subtyping kit.

The DPB1 kit enables separation of the confirmed DPB1 alleles as listed in the IMGT/HLA database 3.33.0. An HLA allele is listed as confirmed by IMGT/HLA if

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it has been sequenced by more than a single laboratory or from multiple sources.
Current allele confirmation status for DPB1 alleles is listed below.

The DPB1 kit also enables identification of many null and alternatively expressed alleles.

The following DPB1 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
DPB1*32:01, 339:01	42	DPB1*250:01, 268:01	71, 81
DPB1*120:01N, 453:01, 521:01	44	DPB1*281:01, 591:01	81
DPB1*149:01, 840:01	49	DPB1*498:01, 572:01	85
DPB1*153:01, 321:01, 595:01	53		

[1]DPB1 alleles listed on the IMGT/HLA web page 2022-January-13, release 3.47.0, www.ebi.ac.uk/imgt/hla.
[2]Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page http://hla.alleles.org/alleles/deleted.html.
[3]This lot of the DPB1 kit cannot separate the DPB1*415:01 and the DPB1*04:01:01:01-04:01:01:23, 04:01:01:25-04:01:01:74, 04:01:03-04:01:06, 04:01:08-04:01:10, 04:01:12-04:01:15, 04:01:17-04:01:40, 04:01:42-04:01:43, 04:01:46, 04:01:48-04:01:56, 04:01:58-04:01:59, 04:01:61, 666:01, 670:01, 677:01, 784:01, 804:01, 806:01:01:01-806:01:01:02, 849:01, 878:01N, 880:01, 882:01, 957:01, 966:01, 978:01, 1100:01, 1129:01, 1132:01, 1139:01, 1237:01, 1238:01, 1241:01, 1242:01, 1244:01, 1249:01, 1262:01, 1284:01 alleles.

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Lot No.: 9N1   **Lot-specific information**

ALLELE CONFIRMATION STATUS

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
DPB1*01:01:01:01	Confirmed	DPB1*02:01:03	Confirmed	DPB1*03:01:08	Unconfirmed	DPB1*04:01:22	Confirmed
DPB1*01:01:01:02	Confirmed	DPB1*02:01:04	Confirmed	DPB1*04:01:01:01	Confirmed	DPB1*04:01:23	Unconfirmed
DPB1*01:01:01:03	Confirmed	DPB1*02:01:05	Unconfirmed	DPB1*04:01:01:02	Confirmed	DPB1*04:01:24	Confirmed
DPB1*01:01:01:04	Unconfirmed	DPB1*02:01:06	Unconfirmed	DPB1*04:01:01:03	Confirmed	DPB1*04:01:25	Unconfirmed
DPB1*01:01:02:01	Confirmed	DPB1*02:01:07	Unconfirmed	DPB1*04:01:01:04	Confirmed	DPB1*04:01:26	Unconfirmed
DPB1*01:01:02:02	Unconfirmed	DPB1*02:01:08	Confirmed	DPB1*04:01:01:05	Confirmed	DPB1*04:01:27	Unconfirmed
DPB1*01:01:03	Unconfirmed	DPB1*02:01:09	Confirmed	DPB1*04:01:01:06	Unconfirmed	DPB1*04:01:28	Unconfirmed
DPB1*01:01:04	Unconfirmed	DPB1*02:01:10	Unconfirmed	DPB1*04:01:01:07	Unconfirmed	DPB1*04:01:29	Confirmed
DPB1*01:01:05	Unconfirmed	DPB1*02:01:11	Confirmed	DPB1*04:01:01:08	Unconfirmed	DPB1*04:01:30	Unconfirmed
DPB1*01:01:06	Unconfirmed	DPB1*02:01:12	Confirmed	DPB1*04:01:01:09	Unconfirmed	DPB1*04:01:31	Unconfirmed
DPB1*02:01:02:01	Confirmed	DPB1*02:01:13	Confirmed	DPB1*04:01:01:10	Unconfirmed	DPB1*04:01:32	Confirmed
DPB1*02:01:02:02	Confirmed	DPB1*02:01:14	Unconfirmed	DPB1*04:01:01:11	Unconfirmed	DPB1*04:01:33	Unconfirmed
DPB1*02:01:02:03	Confirmed	DPB1*02:01:15	Confirmed	DPB1*04:01:01:12	Unconfirmed	DPB1*04:01:34	Unconfirmed
DPB1*02:01:02:04	Confirmed	DPB1*02:01:16	Unconfirmed	DPB1*04:01:01:13	Unconfirmed	DPB1*04:01:35	Unconfirmed
DPB1*02:01:02:05	Confirmed	DPB1*02:01:17	Unconfirmed	DPB1*04:01:01:14	Unconfirmed	DPB1*04:01:36	Unconfirmed
DPB1*02:01:02:06	Confirmed	DPB1*02:01:18	Confirmed	DPB1*04:01:01:15	Unconfirmed	DPB1*04:01:37	Unconfirmed
DPB1*02:01:02:07	Confirmed	DPB1*02:01:19	Unconfirmed	DPB1*04:01:01:16	Unconfirmed	DPB1*04:02:01:01	Confirmed
DPB1*02:01:02:08	Confirmed	DPB1*02:01:20	Confirmed	DPB1*04:01:01:17	Unconfirmed	DPB1*04:02:01:02	Confirmed
DPB1*02:01:02:09	Confirmed	DPB1*02:01:21	Unconfirmed	DPB1*04:01:01:18	Confirmed	DPB1*04:02:01:03	Confirmed
DPB1*02:01:02:10	Confirmed	DPB1*02:01:22	Confirmed	DPB1*04:01:01:19	Unconfirmed	DPB1*04:02:01:04	Unconfirmed
DPB1*02:01:02:11	Confirmed	DPB1*02:01:23	Confirmed	DPB1*04:01:01:20	Confirmed	DPB1*04:02:01:05	Unconfirmed
DPB1*02:01:02:12	Confirmed	DPB1*02:01:24	Confirmed	DPB1*04:01:01:21	Confirmed	DPB1*04:02:01:06	Unconfirmed
DPB1*02:01:02:13	Unconfirmed	DPB1*02:01:25	Confirmed	DPB1*04:01:01:22	Confirmed	DPB1*04:02:01:07	Unconfirmed
DPB1*02:01:02:14	Unconfirmed	DPB1*02:01:26	Unconfirmed	DPB1*04:01:01:23	Unconfirmed	DPB1*04:02:01:08	Unconfirmed
DPB1*02:01:02:15	Unconfirmed	DPB1*02:01:27	Unconfirmed	DPB1*04:01:01:24N	Unconfirmed	DPB1*04:02:01:09	Unconfirmed
DPB1*02:01:02:16	Unconfirmed	DPB1*02:01:28	Unconfirmed	DPB1*04:01:01:25	Unconfirmed	DPB1*04:02:01:10	Unconfirmed
DPB1*02:01:02:17	Unconfirmed	DPB1*02:01:29	Unconfirmed	DPB1*04:01:01:26	Confirmed	DPB1*04:02:01:11	Unconfirmed
DPB1*02:01:02:18	Unconfirmed	DPB1*02:02:01:01	Confirmed	DPB1*04:01:01:27	Unconfirmed	DPB1*04:02:02	Unconfirmed
DPB1*02:01:02:19	Unconfirmed	DPB1*02:02:01:02	Confirmed	DPB1*04:01:01:28	Confirmed	DPB1*04:02:03	Confirmed
DPB1*02:01:02:20	Unconfirmed	DPB1*02:02:01:03	Unconfirmed	DPB1*04:01:02	Unconfirmed	DPB1*04:02:04	Unconfirmed
DPB1*02:01:02:21	Unconfirmed	DPB1*02:02:01:04	Unconfirmed	DPB1*04:01:03	Confirmed	DPB1*04:02:05	Confirmed
DPB1*02:01:02:22	Unconfirmed	DPB1*02:02:01:05	Unconfirmed	DPB1*04:01:04:01	Confirmed	DPB1*04:02:06	Unconfirmed
DPB1*02:01:02:23	Confirmed	DPB1*02:02:01:06	Unconfirmed	DPB1*04:01:04:02	Unconfirmed	DPB1*04:02:07	Confirmed
DPB1*02:01:02:24	Confirmed	DPB1*02:02:01:07	Unconfirmed	DPB1*04:01:05	Unconfirmed	DPB1*04:02:08	Unconfirmed
DPB1*02:01:02:25	Confirmed	DPB1*03:01:01:01	Confirmed	DPB1*04:01:06	Confirmed	DPB1*04:02:09	Unconfirmed
DPB1*02:01:02:26	Unconfirmed	DPB1*03:01:01:02	Confirmed	DPB1*04:01:07	Confirmed	DPB1*04:02:10	Confirmed
DPB1*02:01:02:27	Unconfirmed	DPB1*03:01:01:03	Confirmed	DPB1*04:01:08	Confirmed	DPB1*04:02:11	Unconfirmed
DPB1*02:01:02:28	Unconfirmed	DPB1*03:01:01:04	Unconfirmed	DPB1*04:01:09	Confirmed	DPB1*04:02:12	Confirmed
DPB1*02:01:02:29	Unconfirmed	DPB1*03:01:01:05	Unconfirmed	DPB1*04:01:10	Confirmed	DPB1*04:02:13	Confirmed
DPB1*02:01:02:30	Unconfirmed	DPB1*03:01:01:06	Unconfirmed	DPB1*04:01:11	Confirmed	DPB1*05:01:01:01	Confirmed
DPB1*02:01:02:31	Unconfirmed	DPB1*03:01:01:07	Unconfirmed	DPB1*04:01:12	Confirmed	DPB1*05:01:01:02	Unconfirmed
DPB1*02:01:02:32	Unconfirmed	DPB1*03:01:01:08	Unconfirmed	DPB1*04:01:13	Confirmed	DPB1*05:01:01:03	Unconfirmed
DPB1*02:01:02:33	Unconfirmed	DPB1*03:01:01:09	Unconfirmed	DPB1*04:01:14	Confirmed	DPB1*05:01:01:04	Confirmed
DPB1*02:01:02:34	Unconfirmed	DPB1*03:01:01:10	Unconfirmed	DPB1*04:01:15	Confirmed	DPB1*05:01:01:05	Unconfirmed
DPB1*02:01:02:35	Unconfirmed	DPB1*03:01:02	Unconfirmed	DPB1*04:01:16	Confirmed	DPB1*05:01:01:06	Unconfirmed
DPB1*02:01:02:36	Unconfirmed	DPB1*03:01:03	Unconfirmed	DPB1*04:01:17	Unconfirmed	DPB1*05:01:01:07	Unconfirmed
DPB1*02:01:02:37	Unconfirmed	DPB1*03:01:04	Confirmed	DPB1*04:01:18	Unconfirmed	DPB1*05:01:01:08	Confirmed
DPB1*02:01:02:38	Unconfirmed	DPB1*03:01:05	Unconfirmed	DPB1*04:01:19	Unconfirmed	DPB1*05:01:01:09	Unconfirmed
DPB1*02:01:02:39	Unconfirmed	DPB1*03:01:06	Unconfirmed	DPB1*04:01:20	Unconfirmed	DPB1*05:01:01:10	Unconfirmed
DPB1*02:01:02:40	Unconfirmed	DPB1*03:01:07	Unconfirmed	DPB1*04:01:21	Unconfirmed	DPB1*05:01:02	Unconfirmed

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Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
DPB1*05:01:03	Confirmed	DPB1*20:01:01:02	Unconfirmed	DPB1*49:01:01:01	Confirmed	DPB1*88:01	Confirmed
DPB1*05:01:04	Unconfirmed	DPB1*20:01:02	Unconfirmed	DPB1*49:01:01:02	Unconfirmed	DPB1*89:01	Confirmed
DPB1*05:01:05	Unconfirmed	DPB1*20:01:03	Unconfirmed	DPB1*49:01:01:03	Confirmed	DPB1*90:01:01	Confirmed
DPB1*05:01:06	Unconfirmed	DPB1*20:01:04	Unconfirmed	DPB1*50:01	Confirmed	DPB1*90:01:02	Confirmed
DPB1*05:01:07	Unconfirmed	DPB1*21:01	Confirmed	DPB1*51:01	Confirmed	DPB1*91:01:01:01	Confirmed
DPB1*06:01:01:01	Confirmed	DPB1*22:01	Confirmed	DPB1*52:01	Unconfirmed	DPB1*91:01:01:02	Unconfirmed
DPB1*06:01:01:02	Confirmed	DPB1*23:01:01	Confirmed	DPB1*53:01	Unconfirmed	DPB1*92:01	Unconfirmed
DPB1*06:01:01:03	Unconfirmed	DPB1*23:01:02	Unconfirmed	DPB1*54:01	Unconfirmed	DPB1*93:01	Confirmed
DPB1*06:01:02	Unconfirmed	DPB1*24:01	Confirmed	DPB1*55:01:01:01	Confirmed	DPB1*94:01	Unconfirmed
DPB1*06:01:03	Unconfirmed	DPB1*25:01	Confirmed	DPB1*55:01:01:02	Confirmed	DPB1*95:01	Unconfirmed
DPB1*06:01:04	Unconfirmed	DPB1*26:01:01	Unconfirmed	DPB1*56:01	Unconfirmed	DPB1*96:01	Unconfirmed
DPB1*06:01:05	Unconfirmed	DPB1*26:01:02	Confirmed	DPB1*57:01	Confirmed	DPB1*97:01	Unconfirmed
DPB1*08:01	Unconfirmed	DPB1*26:01:03	Unconfirmed	DPB1*58:01	Confirmed	DPB1*98:01	Confirmed
DPB1*09:01:01	Confirmed	DPB1*27:01	Confirmed	DPB1*59:01	Confirmed	DPB1*99:01	Unconfirmed
DPB1*09:01:02	Confirmed	DPB1*28:01	Confirmed	DPB1*60:01	Confirmed	DPB1*100:01	Unconfirmed
DPB1*09:01:03	Unconfirmed	DPB1*29:01	Confirmed	DPB1*61:01N	Confirmed	DPB1*101:01	Unconfirmed
DPB1*09:01:04	Confirmed	DPB1*30:01:01:01	Confirmed	DPB1*62:01	Confirmed	DPB1*102:01	Unconfirmed
DPB1*10:01:01:01	Confirmed	DPB1*30:01:01:02	Unconfirmed	DPB1*63:01	Confirmed	DPB1*103:01	Unconfirmed
DPB1*10:01:01:02	Unconfirmed	DPB1*31:01	Confirmed	DPB1*64:01N	Unconfirmed	DPB1*104:01:01:01	Confirmed
DPB1*10:01:02	Unconfirmed	DPB1*32:01	Confirmed	DPB1*65:01:01	Unconfirmed	DPB1*104:01:01:02	Confirmed
DPB1*10:01:03	Unconfirmed	DPB1*33:01:01:01	Confirmed	DPB1*65:01:02	Unconfirmed	DPB1*104:01:01:03	Confirmed
DPB1*11:01:01:01	Confirmed	DPB1*33:01:01:02	Confirmed	DPB1*66:01	Unconfirmed	DPB1*104:01:01:04	Unconfirmed
DPB1*11:01:01:02	Unconfirmed	DPB1*33:01:01:03	Unconfirmed	DPB1*67:01	Unconfirmed	DPB1*104:01:01:05	Unconfirmed
DPB1*11:01:02	Unconfirmed	DPB1*33:01:01:04	Unconfirmed	DPB1*68:01	Confirmed	DPB1*105:01:01:01	Confirmed
DPB1*11:01:03	Confirmed	DPB1*33:01:01:05	Unconfirmed	DPB1*69:01:01:01	Confirmed	DPB1*105:01:01:02	Confirmed
DPB1*11:01:04	Unconfirmed	DPB1*34:01:01:01	Confirmed	DPB1*69:01:01:02	Unconfirmed	DPB1*105:01:01:03	Confirmed
DPB1*13:01:01:01	Confirmed	DPB1*34:01:01:02	Unconfirmed	DPB1*70:01	Unconfirmed	DPB1*105:01:01:04	Unconfirmed
DPB1*13:01:01:02	Unconfirmed	DPB1*34:01:02	Unconfirmed	DPB1*71:01:01	Confirmed	DPB1*105:01:01:05	Unconfirmed
DPB1*13:01:01:03	Unconfirmed	DPB1*35:01:01	Confirmed	DPB1*71:01:02	Unconfirmed	DPB1*105:01:01:06	Unconfirmed
DPB1*13:01:01:04	Unconfirmed	DPB1*36:01	Confirmed	DPB1*72:01:01:01	Confirmed	DPB1*105:01:01:07	Unconfirmed
DPB1*13:01:01:05	Unconfirmed	DPB1*37:01	Unconfirmed	DPB1*72:01:01:02	Confirmed	DPB1*105:01:01:08	Unconfirmed
DPB1*13:01:01:06	Unconfirmed	DPB1*38:01	Confirmed	DPB1*72:01:01:03	Unconfirmed	DPB1*105:01:01:09	Unconfirmed
DPB1*13:01:02	Confirmed	DPB1*39:01:01:01	Confirmed	DPB1*73:01	Unconfirmed	DPB1*106:01	Confirmed
DPB1*14:01:01:01	Confirmed	DPB1*39:01:01:02	Unconfirmed	DPB1*74:01	Unconfirmed	DPB1*107:01	Unconfirmed
DPB1*14:01:01:02	Unconfirmed	DPB1*39:01:01:03	Unconfirmed	DPB1*75:01	Unconfirmed	DPB1*108:01	Unconfirmed
DPB1*14:01:01:03	Unconfirmed	DPB1*39:01:01:04	Unconfirmed	DPB1*76:01	Confirmed	DPB1*109:01	Confirmed
DPB1*14:01:02	Unconfirmed	DPB1*39:01:02	Unconfirmed	DPB1*77:01	Confirmed	DPB1*110:01	Unconfirmed
DPB1*14:01:03	Unconfirmed	DPB1*40:01:01:01	Confirmed	DPB1*78:01	Confirmed	DPB1*111:01	Unconfirmed
DPB1*14:01:04	Unconfirmed	DPB1*40:01:01:02	Unconfirmed	DPB1*79:01	Unconfirmed	DPB1*112:01	Unconfirmed
DPB1*14:01:05	Unconfirmed	DPB1*41:01:01:01	Confirmed	DPB1*80:01	Confirmed	DPB1*113:01	Unconfirmed
DPB1*15:01:01	Confirmed	DPB1*41:01:01:02	Unconfirmed	DPB1*81:01:01:01	Confirmed	DPB1*114:01	Unconfirmed
DPB1*15:01:02	Unconfirmed	DPB1*41:01:02	Unconfirmed	DPB1*81:01:01:02	Unconfirmed	DPB1*115:01	Confirmed
DPB1*16:01:01	Confirmed	DPB1*44:01	Confirmed	DPB1*82:01	Unconfirmed	DPB1*116:01	Unconfirmed
DPB1*16:01:02	Unconfirmed	DPB1*45:01	Confirmed	DPB1*83:01	Unconfirmed	DPB1*117:01	Unconfirmed
DPB1*17:01:01:01	Confirmed	DPB1*46:01:01	Confirmed	DPB1*84:01	Unconfirmed	DPB1*118:01	Unconfirmed
DPB1*17:01:01:02	Unconfirmed	DPB1*46:01:02	Unconfirmed	DPB1*85:01:01:01	Confirmed	DPB1*119:01	Unconfirmed
DPB1*18:01	Confirmed	DPB1*47:01:01:01	Confirmed	DPB1*85:01:01:02	Unconfirmed	DPB1*120:01N	Unconfirmed
DPB1*19:01:01:01	Confirmed	DPB1*47:01:01:02	Unconfirmed	DPB1*85:01:02	Unconfirmed	DPB1*121:01	Unconfirmed
DPB1*19:01:01:02	Unconfirmed	DPB1*47:01:01:03	Unconfirmed	DPB1*86:01	Confirmed	DPB1*122:01	Unconfirmed
DPB1*20:01:01:01	Confirmed	DPB1*48:01	Confirmed	DPB1*87:01	Unconfirmed	DPB1*123:01	Unconfirmed

OLERUP SSP

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

Visit www.caredx.com for
"Instructions for Use" (IFU)

Lot No.: 9N1   **Lot-specific information**

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
DPB1*124:01:01:01	**Confirmed**	DPB1*169:01	Unconfirmed	**DPB1*218:01N**	**Confirmed**	DPB1*267:01	Unconfirmed
DPB1*124:01:01:02	Unconfirmed	**DPB1*170:01**	**Confirmed**	DPB1*219:01	Unconfirmed	DPB1*268:01	Unconfirmed
DPB1*125:01	Unconfirmed	DPB1*171:01	Unconfirmed	**DPB1*220:01**	**Confirmed**	DPB1*269:01	Unconfirmed
DPB1*126:01:01:01	**Confirmed**	**DPB1*172:01**	**Confirmed**	**DPB1*221:01**	**Confirmed**	DPB1*270:01	Unconfirmed
DPB1*126:01:01:02	Unconfirmed	**DPB1*173:01**	**Confirmed**	**DPB1*222:01**	**Confirmed**	DPB1*271:01	Unconfirmed
DPB1*127:01	**Confirmed**	DPB1*174:01	Unconfirmed	DPB1*223:01	Unconfirmed	DPB1*272:01	Unconfirmed
DPB1*128:01	**Confirmed**	DPB1*175:01	Unconfirmed	**DPB1*224:01**	**Confirmed**	DPB1*273:01	Unconfirmed
DPB1*129:01	Unconfirmed	DPB1*176:01	Unconfirmed	**DPB1*225:01**	**Confirmed**	DPB1*274:01	Unconfirmed
DPB1*130:01	**Confirmed**	**DPB1*177:01**	**Confirmed**	DPB1*226:01	Unconfirmed	DPB1*275:01	Unconfirmed
DPB1*131:01:01	**Confirmed**	**DPB1*178:01**	**Confirmed**	DPB1*227:01	Unconfirmed	DPB1*276:01	Unconfirmed
DPB1*131:01:02	**Confirmed**	DPB1*179:01	Unconfirmed	DPB1*228:01	Unconfirmed	DPB1*277:01	Unconfirmed
DPB1*132:01	Unconfirmed	**DPB1*180:01**	**Confirmed**	DPB1*229:01	Unconfirmed	DPB1*278:01	Unconfirmed
DPB1*133:01	**Confirmed**	**DPB1*181:01**	**Confirmed**	DPB1*230:01	Unconfirmed	DPB1*279:01:01	Unconfirmed
DPB1*134:01	Unconfirmed	**DPB1*182:01**	**Confirmed**	DPB1*231:01	Unconfirmed	DPB1*279:01:02	Unconfirmed
DPB1*135:01	**Confirmed**	DPB1*183:01	Unconfirmed	DPB1*232:01	Unconfirmed	DPB1*280:01	Unconfirmed
DPB1*136:01	**Confirmed**	**DPB1*184:01**	**Confirmed**	**DPB1*233:01**	**Confirmed**	DPB1*281:01	Unconfirmed
DPB1*137:01	Unconfirmed	**DPB1*185:01**	**Confirmed**	DPB1*234:01	Unconfirmed	**DPB1*282:01**	**Confirmed**
DPB1*138:01	**Confirmed**	**DPB1*186:01**	**Confirmed**	DPB1*235:01	Unconfirmed	DPB1*283:01	Unconfirmed
DPB1*139:01	Unconfirmed	**DPB1*187:01**	**Confirmed**	**DPB1*236:01:01**	**Confirmed**	DPB1*284:01	Unconfirmed
DPB1*140:01	Unconfirmed	DPB1*188:01	Unconfirmed	**DPB1*236:01:02**	**Confirmed**	DPB1*285:01	Unconfirmed
DPB1*141:01	**Confirmed**	**DPB1*189:01**	**Confirmed**	DPB1*237:01	Unconfirmed	DPB1*286:01	Unconfirmed
DPB1*142:01	Unconfirmed	**DPB1*190:01**	**Confirmed**	DPB1*238:01	Unconfirmed	DPB1*287:01	Unconfirmed
DPB1*143:01	**Confirmed**	**DPB1*191:01**	**Confirmed**	DPB1*239:01	Unconfirmed	DPB1*288:01	Unconfirmed
DPB1*144:01	**Confirmed**	**DPB1*192:01**	**Confirmed**	DPB1*240:01	Unconfirmed	DPB1*289:01	Unconfirmed
DPB1*145:01	**Confirmed**	**DPB1*193:01**	**Confirmed**	DPB1*241:01	Unconfirmed	DPB1*290:01	Unconfirmed
DPB1*146:01	**Confirmed**	**DPB1*194:01**	**Confirmed**	DPB1*242:01	Unconfirmed	DPB1*291:01	Unconfirmed
DPB1*147:01	Unconfirmed	**DPB1*195:01**	**Confirmed**	DPB1*243:01	Unconfirmed	DPB1*292:01	Unconfirmed
DPB1*148:01	Unconfirmed	DPB1*196:01	Unconfirmed	**DPB1*244:01**	**Confirmed**	DPB1*293:01	Unconfirmed
DPB1*149:01	**Confirmed**	DPB1*197:01	Unconfirmed	**DPB1*245:01**	**Confirmed**	DPB1*294:01	Unconfirmed
DPB1*150:01	**Confirmed**	**DPB1*198:01**	**Confirmed**	DPB1*246:01	Unconfirmed	DPB1*295:01	Unconfirmed
DPB1*151:01	**Confirmed**	**DPB1*199:01**	**Confirmed**	DPB1*247:01	Unconfirmed	**DPB1*296:01**	**Confirmed**
DPB1*152:01	**Confirmed**	**DPB1*200:01**	**Confirmed**	DPB1*248:01	Unconfirmed	DPB1*297:01	Unconfirmed
DPB1*153:01	**Confirmed**	**DPB1*201:01**	**Confirmed**	DPB1*249:01	Unconfirmed	DPB1*298:01	Unconfirmed
DPB1*154:01N	**Confirmed**	DPB1*202:01	Unconfirmed	DPB1*250:01	Unconfirmed	DPB1*299:01	Unconfirmed
DPB1*155:01:01	**Confirmed**	**DPB1*203:01:01**	**Confirmed**	DPB1*251:01	Unconfirmed	DPB1*300:01	Unconfirmed
DPB1*155:01:02	**Confirmed**	DPB1*203:01:02	Unconfirmed	DPB1*252:01	Unconfirmed	**DPB1*301:01**	**Confirmed**
DPB1*156:01	**Confirmed**	**DPB1*204:01**	**Confirmed**	**DPB1*253:01**	**Confirmed**	DPB1*302:01	Unconfirmed
DPB1*157:01	**Confirmed**	DPB1*205:01	Unconfirmed	DPB1*254:01	Unconfirmed	**DPB1*303:01**	**Confirmed**
DPB1*158:01	**Confirmed**	**DPB1*206:01**	**Confirmed**	DPB1*255:01	Unconfirmed	**DPB1*304:01**	**Confirmed**
DPB1*159:01N	Unconfirmed	**DPB1*207:01**	**Confirmed**	DPB1*256:01	Unconfirmed	DPB1*305:01	Unconfirmed
DPB1*160:01	Unconfirmed	**DPB1*208:01**	**Confirmed**	**DPB1*257:01**	**Confirmed**	**DPB1*306:01**	**Confirmed**
DPB1*161:01N	**Confirmed**	**DPB1*209:01**	**Confirmed**	DPB1*258:01	Unconfirmed	DPB1*307:01	Unconfirmed
DPB1*162:01:01	Unconfirmed	**DPB1*210:01**	**Confirmed**	DPB1*259:01	Unconfirmed	DPB1*308:01	Unconfirmed
DPB1*162:01:02	**Confirmed**	**DPB1*211:01**	**Confirmed**	**DPB1*260:01**	**Confirmed**	**DPB1*309:01**	**Confirmed**
DPB1*163:01	Unconfirmed	**DPB1*212:01**	**Confirmed**	DPB1*261:01	Unconfirmed	DPB1*310:01	Unconfirmed
DPB1*164:01	Unconfirmed	DPB1*213:01	Unconfirmed	DPB1*262:01	Unconfirmed	**DPB1*311:01**	**Confirmed**
DPB1*165:01	**Confirmed**	**DPB1*214:01**	**Confirmed**	DPB1*263:01	Unconfirmed	**DPB1*312:01**	**Confirmed**
DPB1*166:01	**Confirmed**	**DPB1*215:01**	**Confirmed**	DPB1*264:01	Unconfirmed	**DPB1*313:01**	**Confirmed**
DPB1*167:01	Unconfirmed	DPB1*216:01N	Unconfirmed	**DPB1*265:01**	**Confirmed**	DPB1*314:01	Unconfirmed
DPB1*168:01	Unconfirmed	DPB1*217:01	Unconfirmed	DPB1*266:01	Unconfirmed	**DPB1*315:01**	**Confirmed**

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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Lot No.: 9N1   **Lot-specific information**

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
DPB1*316:01	**Confirmed**	DPB1*364:01	Unconfirmed	**DPB1*414:01:01:01**	**Confirmed**	DPB1*461:01	Unconfirmed
DPB1*317:01	Unconfirmed	**DPB1*365:01**	**Confirmed**	DPB1*414:01:01:02	Unconfirmed	DPB1*462:01	Unconfirmed
DPB1*318:01	**Confirmed**	DPB1*366:01	Unconfirmed	**DPB1*415:01**	**Confirmed**	DPB1*463:01:01:01	Unconfirmed
DPB1*319:01	**Confirmed**	DPB1*367:01	Unconfirmed	**DPB1*416:01:01:01**	**Confirmed**	DPB1*463:01:01:02	Unconfirmed
DPB1*320:01	Unconfirmed	DPB1*368:01	Unconfirmed	**DPB1*416:01:01:02**	**Confirmed**	DPB1*463:01:01:03	Unconfirmed
DPB1*321:01	**Confirmed**	**DPB1*369:01**	**Confirmed**	DPB1*417:01	Unconfirmed	DPB1*464:01	Unconfirmed
DPB1*322:01	Unconfirmed	**DPB1*370:01**	**Confirmed**	**DPB1*418:01**	**Confirmed**	DPB1*465:01	Unconfirmed
DPB1*323:01	Unconfirmed	DPB1*371:01	Unconfirmed	DPB1*419:01	Unconfirmed	DPB1*466:01	Unconfirmed
DPB1*324:01	Unconfirmed	DPB1*372:01	Unconfirmed	DPB1*420:01	Unconfirmed	**DPB1*467:01**	**Confirmed**
DPB1*325:01	Unconfirmed	DPB1*373:01	Unconfirmed	DPB1*421:01	Unconfirmed	DPB1*468:01	Unconfirmed
DPB1*326:01	Unconfirmed	**DPB1*374:01**	**Confirmed**	**DPB1*422:01**	**Confirmed**	DPB1*469:01	Unconfirmed
DPB1*327:01	**Confirmed**	**DPB1*375:01**	**Confirmed**	**DPB1*423:01:01**	**Confirmed**	**DPB1*470:01**	**Confirmed**
DPB1*328:01N	**Confirmed**	DPB1*376:01	Unconfirmed	DPB1*423:01:02	Unconfirmed	DPB1*471:01	Unconfirmed
DPB1*329:01	**Confirmed**	**DPB1*377:01**	**Confirmed**	**DPB1*424:01**	**Confirmed**	DPB1*472:01	Unconfirmed
DPB1*330:01	Unconfirmed	DPB1*378:01	Unconfirmed	DPB1*425:01	Unconfirmed	DPB1*473:01	Unconfirmed
DPB1*331:01	Unconfirmed	DPB1*379:01	Unconfirmed	DPB1*426:01	Unconfirmed	DPB1*474:01	Unconfirmed
DPB1*332:01	Unconfirmed	**DPB1*380:01**	**Confirmed**	DPB1*427:01	Unconfirmed	**DPB1*475:01**	**Confirmed**
DPB1*333:01	**Confirmed**	DPB1*381:01	Unconfirmed	DPB1*428:01	Unconfirmed	**DPB1*476:01**	**Confirmed**
DPB1*334:01	**Confirmed**	**DPB1*382:01N**	**Confirmed**	DPB1*429:01	Unconfirmed	DPB1*477:01	Unconfirmed
DPB1*335:01	Unconfirmed	**DPB1*383:01**	**Confirmed**	DPB1*430:01	Unconfirmed	DPB1*478:01	Unconfirmed
DPB1*336:01	Unconfirmed	**DPB1*384:01**	**Confirmed**	DPB1*431:01	Unconfirmed	DPB1*479:01	Unconfirmed
DPB1*337:01	Unconfirmed	**DPB1*385:01**	**Confirmed**	DPB1*432:01	Unconfirmed	DPB1*480:01	Unconfirmed
DPB1*338:01	**Confirmed**	DPB1*386:01	Unconfirmed	**DPB1*433:01**	**Confirmed**	DPB1*481:01	Unconfirmed
DPB1*339:01	Unconfirmed	DPB1*387:01	Unconfirmed	DPB1*434:01	Unconfirmed	**DPB1*482:01**	**Confirmed**
DPB1*340:01	**Confirmed**	DPB1*388:01	Unconfirmed	DPB1*435:01	Unconfirmed	DPB1*483:01	Unconfirmed
DPB1*341:01	Unconfirmed	DPB1*389:01	Unconfirmed	DPB1*436:01	Unconfirmed	**DPB1*484:01**	**Confirmed**
DPB1*342:01	Unconfirmed	**DPB1*390:01**	**Confirmed**	**DPB1*437:01**	**Confirmed**	**DPB1*485:01**	**Confirmed**
DPB1*343:01	Unconfirmed	**DPB1*391:01**	**Confirmed**	DPB1*438:01	Unconfirmed	**DPB1*486:01**	**Confirmed**
DPB1*344:01	Unconfirmed	**DPB1*392:01**	**Confirmed**	DPB1*439:01	Unconfirmed	DPB1*487:01	Unconfirmed
DPB1*345:01	Unconfirmed	**DPB1*393:01**	**Confirmed**	**DPB1*440:01**	**Confirmed**	**DPB1*488:01**	**Confirmed**
DPB1*346:01	Unconfirmed	**DPB1*394:01**	**Confirmed**	**DPB1*441:01**	**Confirmed**	**DPB1*489:01**	**Confirmed**
DPB1*347:01	Unconfirmed	DPB1*395:01	Unconfirmed	DPB1*442:01	Unconfirmed	**DPB1*490:01**	**Confirmed**
DPB1*348:01:01	Unconfirmed	**DPB1*396:01**	**Confirmed**	DPB1*443:01	Unconfirmed	DPB1*491:01	Unconfirmed
DPB1*348:01:02	Unconfirmed	DPB1*397:01	Unconfirmed	DPB1*444:01	Unconfirmed	DPB1*492:01	Unconfirmed
DPB1*349:01	**Confirmed**	**DPB1*398:01**	**Confirmed**	**DPB1*445:01**	**Confirmed**	**DPB1*493:01**	**Confirmed**
DPB1*350:01	**Confirmed**	DPB1*399:01	Unconfirmed	DPB1*446:01	Unconfirmed	DPB1*494:01	Unconfirmed
DPB1*351:01	Unconfirmed	DPB1*400:01	Unconfirmed	DPB1*447:01	Unconfirmed	**DPB1*495:01**	**Confirmed**
DPB1*352:01	Unconfirmed	DPB1*401:01N	Unconfirmed	**DPB1*448:01**	**Confirmed**	DPB1*496:01	Unconfirmed
DPB1*353:01	Unconfirmed	DPB1*402:01	Unconfirmed	DPB1*449:01	Unconfirmed	DPB1*497:01	Unconfirmed
DPB1*354:01:01	Unconfirmed	DPB1*403:01N	Unconfirmed	DPB1*450:01N	Unconfirmed	**DPB1*498:01**	**Confirmed**
DPB1*354:01:02	**Confirmed**	**DPB1*404:01**	**Confirmed**	DPB1*451:01	Unconfirmed	DPB1*499:01	Unconfirmed
DPB1*355:01	**Confirmed**	DPB1*405:01	Unconfirmed	**DPB1*452:01**	**Confirmed**	DPB1*500:01	Unconfirmed
DPB1*356:01	Unconfirmed	DPB1*406:01	Unconfirmed	DPB1*453:01	Unconfirmed	**DPB1*501:01**	**Confirmed**
DPB1*357:01N	**Confirmed**	DPB1*407:01	Unconfirmed	**DPB1*454:01**	**Confirmed**	DPB1*502:01	Unconfirmed
DPB1*358:01	Unconfirmed	DPB1*408:01	Unconfirmed	DPB1*455:01N	Unconfirmed	**DPB1*503:01**	**Confirmed**
DPB1*359:01	**Confirmed**	DPB1*409:01	Unconfirmed	DPB1*456:01	Unconfirmed	**DPB1*504:01**	**Confirmed**
DPB1*360:01	**Confirmed**	DPB1*410:01	Unconfirmed	DPB1*457:01	Unconfirmed	**DPB1*505:01**	**Confirmed**
DPB1*361:01	Unconfirmed	DPB1*411:01	Unconfirmed	**DPB1*458:01**	**Confirmed**	DPB1*506:01	Unconfirmed
DPB1*362:01	Unconfirmed	**DPB1*412:01**	**Confirmed**	DPB1*459:01	Unconfirmed	**DPB1*507:01N**	**Confirmed**
DPB1*363:01	Unconfirmed	**DPB1*413:01**	**Confirmed**	DPB1*460:01	Unconfirmed	**DPB1*508:01**	**Confirmed**

For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

101.311-24/04 – including *Taq* polymerase   Visit www.caredx.com for
101.311-24u/04u – without *Taq* polymerase   **"Instructions for Use" (IFU)**

Lot No.: 9N1   **Lot-specific information**

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
DPB1*509:01	Unconfirmed	DPB1*559:01	Unconfirmed	DPB1*609:01	Unconfirmed	**DPB1*658:01**	**Confirmed**
DPB1*510:01	Unconfirmed	DPB1*560:01	Unconfirmed	DPB1*610:01	Unconfirmed	DPB1*659:01	Unconfirmed
DPB1*511:01	**Confirmed**	DPB1*561:01	Unconfirmed	DPB1*611:01	Unconfirmed	DPB1*660:01	Unconfirmed
DPB1*512:01	**Confirmed**	DPB1*562:01	Unconfirmed	DPB1*612:01	Unconfirmed	DPB1*661:01N	Unconfirmed
DPB1*513:01	Unconfirmed	DPB1*563:01	Unconfirmed	DPB1*613:01	Unconfirmed	**DPB1*662:01**	**Confirmed**
DPB1*514:01	**Confirmed**	DPB1*564:01	Unconfirmed	DPB1*614:01	Unconfirmed	DPB1*663:01	Unconfirmed
DPB1*515:01	Unconfirmed	DPB1*565:01	Unconfirmed	DPB1*615:01	Unconfirmed	DPB1*664:01	Unconfirmed
DPB1*516:01	Unconfirmed	DPB1*566:01	Unconfirmed	DPB1*616:01	Unconfirmed	DPB1*665:01	Unconfirmed
DPB1*517:01	Unconfirmed	DPB1*567:01	Unconfirmed	DPB1*617:01	Unconfirmed	DPB1*666:01	Unconfirmed
DPB1*518:01	Unconfirmed	DPB1*568:01	Unconfirmed	DPB1*618:01	Unconfirmed	DPB1*667:01	Unconfirmed
DPB1*519:01	**Confirmed**	DPB1*569:01	Unconfirmed	DPB1*619:01	Unconfirmed	DPB1*668:01:01:01	Unconfirmed
DPB1*520:01	**Confirmed**	**DPB1*570:01N**	**Confirmed**	DPB1*620:01	Unconfirmed	DPB1*668:01:01:02	Unconfirmed
DPB1*521:01	Unconfirmed	DPB1*571:01	Unconfirmed	DPB1*621:01	Unconfirmed	DPB1*669:01	Unconfirmed
DPB1*522:01	**Confirmed**	**DPB1*572:01**	**Confirmed**	DPB1*622:01	Unconfirmed	DPB1*670:01	Unconfirmed
DPB1*523:01	**Confirmed**	**DPB1*573:01**	**Confirmed**	DPB1*623:01	Unconfirmed	DPB1*671:01	Unconfirmed
DPB1*524:01	Unconfirmed	DPB1*574:01	Unconfirmed	DPB1*624:01	Unconfirmed	DPB1*672:01	Unconfirmed
DPB1*525:01	Unconfirmed	DPB1*575:01	Unconfirmed	DPB1*625:01	Unconfirmed	DPB1*673:01	Unconfirmed
DPB1*526:01	**Confirmed**	**DPB1*576:01**	**Confirmed**	DPB1*626:01	Unconfirmed	**DPB1*674:01**	**Confirmed**
DPB1*527:01	Unconfirmed	**DPB1*577:01**	**Confirmed**	DPB1*627:01	Unconfirmed	DPB1*675:01	Unconfirmed
DPB1*528:01	Unconfirmed	DPB1*578:01	Unconfirmed	DPB1*628:01	Unconfirmed	DPB1*676:01	Unconfirmed
DPB1*529:01	Unconfirmed	DPB1*579:01	Unconfirmed	DPB1*629:01	Unconfirmed	DPB1*677:01	Unconfirmed
DPB1*530:01	**Confirmed**	DPB1*580:01	Unconfirmed	DPB1*630:01	Unconfirmed	DPB1*678:01	Unconfirmed
DPB1*531:01	**Confirmed**	DPB1*581:01	Unconfirmed	DPB1*631:01	Unconfirmed	**DPB1*679:01**	**Confirmed**
DPB1*532:01	Unconfirmed	DPB1*582:01	Unconfirmed	DPB1*632:01	Unconfirmed	DPB1*680:01	Unconfirmed
DPB1*533:01	Unconfirmed	DPB1*583:01	Unconfirmed	DPB1*633:01	Unconfirmed	**DPB1*681:01**	**Confirmed**
DPB1*534:01	Unconfirmed	**DPB1*584:01**	**Confirmed**	**DPB1*634:01**	**Confirmed**	**DPB1*682:01**	**Confirmed**
DPB1*535:01	**Confirmed**	DPB1*585:01	Unconfirmed	DPB1*635:01	Unconfirmed	**DPB1*683:01**	**Confirmed**
DPB1*536:01	Unconfirmed	DPB1*586:01	Unconfirmed	DPB1*636:01	Unconfirmed	DPB1*684:01	Unconfirmed
DPB1*537:01	Unconfirmed	**DPB1*587:01**	**Confirmed**	DPB1*637:01	Unconfirmed	DPB1*685:01	Unconfirmed
DPB1*538:01	Unconfirmed	DPB1*588:01	Unconfirmed	DPB1*638:01	Unconfirmed	DPB1*686:01	Unconfirmed
DPB1*539:01	**Confirmed**	DPB1*589:01	Unconfirmed	DPB1*639:01	Unconfirmed	DPB1*687:01	Unconfirmed
DPB1*540:01	Unconfirmed	DPB1*590:01	Unconfirmed	DPB1*640:01	Unconfirmed	DPB1*688:01	Unconfirmed
DPB1*541:01	Unconfirmed	DPB1*591:01	Unconfirmed	DPB1*641:01	Unconfirmed	DPB1*689:01	Unconfirmed
DPB1*542:01	Unconfirmed	DPB1*592:01	Unconfirmed	DPB1*642:01	Unconfirmed	DPB1*690:01	Unconfirmed
DPB1*543:01	Unconfirmed	DPB1*593:01	Unconfirmed	DPB1*643:01	Unconfirmed	DPB1*691:01N	Unconfirmed
DPB1*544:01	Unconfirmed	DPB1*594:01	Unconfirmed	DPB1*644:01	Unconfirmed	DPB1*692:01	Unconfirmed
DPB1*545:01	Unconfirmed	DPB1*595:01	Unconfirmed	DPB1*645:01	Unconfirmed	DPB1*693:01N	Unconfirmed
DPB1*546:01	Unconfirmed	DPB1*596:01	Unconfirmed	DPB1*646:01	Unconfirmed	DPB1*694:01	Unconfirmed
DPB1*547:01	Unconfirmed	DPB1*597:01	Unconfirmed	DPB1*647:01	Unconfirmed	DPB1*695:01	Unconfirmed
DPB1*548:01	Unconfirmed	DPB1*598:01N	Unconfirmed	DPB1*648:01:01:01	Unconfirmed	DPB1*696:01N	Unconfirmed
DPB1*549:01	Unconfirmed	**DPB1*599:01**	**Confirmed**	DPB1*648:01:01:02	Unconfirmed	DPB1*697:01Q	Unconfirmed
DPB1*550:01	Unconfirmed	DPB1*600:01	Unconfirmed	DPB1*649:01	Unconfirmed	**DPB1*698:01**	**Confirmed**
DPB1*551:01N	Unconfirmed	DPB1*601:01	Unconfirmed	DPB1*650:01	Unconfirmed	**DPB1*699:01**	**Confirmed**
DPB1*552:01	Unconfirmed	DPB1*602:01	Unconfirmed	**DPB1*651:01**	**Confirmed**	**DPB1*700:01N**	**Confirmed**
DPB1*553:01	Unconfirmed	DPB1*603:01	Unconfirmed	**DPB1*652:01**	**Confirmed**	DPB1*701:01	Unconfirmed
DPB1*554:01	Unconfirmed	**DPB1*604:01**	**Confirmed**	DPB1*653:01	Unconfirmed	DPB1*702:01	Unconfirmed
DPB1*555:01	Unconfirmed	DPB1*605:01	Unconfirmed	DPB1*654:01	Unconfirmed	DPB1*703:01	Unconfirmed
DPB1*556:01	Unconfirmed	DPB1*606:01	Unconfirmed	DPB1*655:01	Unconfirmed	DPB1*704:01	Unconfirmed
DPB1*557:01	Unconfirmed	DPB1*607:01	Unconfirmed	**DPB1*656:01**	**Confirmed**	DPB1*705:01	Unconfirmed
DPB1*558:01	**Confirmed**	DPB1*608:01	Unconfirmed	DPB1*657:01N	Unconfirmed	DPB1*706:01	Unconfirmed

OLERUP SSP

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Lot No.: 9N1   **Lot-specific information**

Allele	Status[1]
DPB1*707:01	Unconfirmed
DPB1*708:01	Unconfirmed
DPB1*709:01	Unconfirmed
DPB1*710:01	Unconfirmed
DPB1*711:01	Unconfirmed
DPB1*712:01N	Unconfirmed
DPB1*713:01	Unconfirmed
DPB1*714:01	Unconfirmed
DPB1*715:01	Unconfirmed
DPB1*716:01	Unconfirmed
DPB1*717:01	Unconfirmed
DPB1*718:01	Unconfirmed
DPB1*719:01	Unconfirmed
DPB1*720:01	Unconfirmed

[1]Allele status "confirmed" or "unconfirmed" as listed on the IMGT/HLA web page 2018-July-11, release 3.33.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in DPB1 homo- and heterozygotes is available upon request.

CE

For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

OLERUP SSP®

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SPECIFICITY TABLE

DPB1 SSP typing

Specificities and sizes of the PCR products of the 95+1 primer mixes used for DPB1 SSP typing[3]

Primer Mix	Size of spec. PCR product[1]	Size of control band[2]	Amplified DPB1 alleles[3]
1	245 bp	**515 bp**	*01:01:01:01-01:01:04, 01:01:06-01:01:08, 03:01:01:01-03:01:19, 13:01:01:01-13:01:05, 25:01, 26:01:01-26:01:03, 29:01, 37:01, 44:01, 50:01, 52:01, 56:01, 61:01N, 78:01, 79:01, 88:01, 90:01:01-90:01:02, 92:01, 104:01:01:01-104:01:06, 107:01, 110:01, 111:01, 114:01, 118:01, 122:01, 124:01:01:01-124:01:02:03, 127:01, 132:01, 133:01, 142:01, 159:01N, 160:01, 162:01:01-162:01:02, 201:01, 203:01:01-203:01:02, 209:01, 220:01, 221:01, 222:01, 246:01, 248:01, 249:01, 267:01, 269:01, 270:01, 291:01, 293:01, 295:01, 315:01, 316:01, 326:01, 327:01, 329:01, 351:01, 362:01, 363:01, 389:01, 390:01, 393:01, 394:01, 403:01N, 404:01, 405:01, 411:01, 412:01, 417:01:01-417:01:02, 436:01, 439:01, 440:01, 448:01, 449:01, 462:01, 472:01, 481:01, 483:01, 506:01, 507:01N, 508:01, 509:01, 516:01, 518:01, 519:01, 536:01, 542:01, 543:01, 544:01, 545:01, 548:01, 562:01, 564:01, 565:01, 567:01, 568:01, 597:01, 599:01, 600:01, 609:01, 610:01, 612:01, 616:01, 631:01, 632:01, 634:01, 636:01, 645:01, 661:01N, 664:01, 667:01, 669:01, 675:01, 676:01, 688:01, 689:01, 691:01N, 703:01, 704:01, 706:01, 708:01, 709:01, 710:01, 711:01, 718:01, 727:01, 728:01, 733:01, 746:01, 760:01, 792:01N, 800:01N, 801:01, 807:01, 810:01, 822:01, 825:01, 829:01, 839:01, 853:01, 855:01, 862:01N, 866:01N, 870:01N, 873:01N, 876:01N, 879:01:01:01-879:01:01:03, 883:01, 888:01, 893:01, 909:01, 917:01N, 920:01, 924:01, 931:01, 935:01Q, 938:01, 941:01N, 946:01, 947:01, 948:01, 950:01N, 952:01, 953:01, 960:01N, 969:01, 970:01, 979:01, 983:01, 984:01N, 991:01, 996:01, 998:01, 999:01, 1000:01, 1006:01, 1008:01, 1012:01, 1014:01, 1021:01, 1024:01, 1027:01, 1030:01, 1038:01Q, 1041:01N, 1045:01N, 1049:01, 1050:01:01-1050:01:02, 1057:01, 1065:01, 1068:01, 1069:01, 1071:01, 1073:01, 1076:01, 1088:01, 1090:01, 1093:01, 1096:01, 1098:01N, 1103:01, 1105:01, 1114:01, 1116:01, 1123:01, 1130:01, 1131:01, 1133:01, 1134:01, 1137:01, 1141:01, 1147:01, 1151:01, 1157:01, 1162:01, 1166:01, 1169:01N, 1183:01, 1185:01, 1202:01N, 1205:01, 1228:01N, 1232:01, 1245:01, 1246:01, 1254:01, 1256:01N, 1260:01N, 1263:01, 1264:01, 1269:01N, 1285:01N, 1287:01, 1288:01N, 1294:01, 1295:01
2	220 bp	**515 bp**	*01:01:01:01-01:01:08, 03:01:01:01-03:01:19, 18:01:01:01-18:01:03, 20:01:01:01-20:01:05, 25:01, 26:01:01-26:01:03, 27:01, 36:01, 50:01, 52:01, 56:01, 61:01N, 78:01, 79:01, 85:01:01:01-85:01:02, 87:01, 89:01, 90:01:01-90:01:02, 92:01, 104:01:01:01-104:01:06, 111:01, 114:01, 118:01, 122:01, 124:01:01:01-124:01:02:03, 127:01, 130:01, 132:01, 142:01, 158:01, 159:01N, 162:01:01-162:01:02, 164:01, 199:01, 201:01, 203:01:01-203:01:02, 209:01, 220:01, 221:01, 222:01, 248:01, 267:01, 270:01, 271:01, 291:01, 292:01, 293:01, 294:01, 315:01, 316:01, 326:01, 327:01, 329:01, 346:01, 351:01, 363:01, 369:01, 387:01, 390:01, 391:01, 392:01, 394:01, 403:01N, 404:01, 405:01, 411:01, 412:01, 417:01:01-417:01:02, 436:01, 439:01, 440:01,

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3^6	140 bp	430 bp	*01:01:01:01-01:01:08, 04:01:01:01-04:01:61, 11:01:01:01-11:01:05, 13:01:01:01-13:01:05, 15:01:01:01-15:01:05, 23:01:01:01-23:01:03, 26:01:01-26:01:03, 27:01, 31:01:01:01-31:01:01:02, 33:01:01:01-33:01:01:05, 34:01:01:01-34:01:02, 39:01:01:01-39:01:03, 40:01:01:01-40:01:02, 52:01, 55:01:01:01-55:01:03, 56:01, 58:01, 62:01, 63:01, 65:01:01-65:01:02, 66:01, 67:01, 71:01:01-71:01:02, 72:01:01:01-72:01:01:03, 74:01, 85:01:01:01-85:01:02, 87:01, 89:01, 90:01:01-90:01:02, 95:01, 96:01, 99:01, 102:01, 103:01, 107:01, 110:01, 112:01, 117:01, 118:01, 120:01N, 121:01, 125:01, 126:01:01:01-126:01:01:03, 127:01, 128:01, 133:01, 134:01, 138:01, 142:01, 147:01, 149:01, 150:01, 158:01, 159:01N, 160:01, 162:01:01-162:01:02, 169:01ʷ, 173:01, 174:01, 175:01, 176:01, 177:01, 178:01, 179:01, 180:01, 181:01, 192:01:01-192:01:02, 193:01, 194:01, 195:01, 199:01, 201:01, 202:01, 206:01, 207:01:01-207:01:02, 209:01, 213:01:01-213:01:02, 215:01, 216:01N, 220:01, 224:01, 225:01, 227:01:01-227:01:03, 228:01, 230:01, 231:01, 232:01, 240:01, 244:01, 246:01, 247:01, 250:01, 253:01, 255:01, 262:01, 264:01, 267:01, 268:01, 272:01, 275:01, 276:01, 278:01, 279:01:01-279:01:02, 280:01, 281:01, 282:01, 283:01, 290:01, 294:01, 295:01, 298:01, 299:01, 303:01, 304:01, 305:01, 306:01, 314:01, 318:01, 319:01, 320:01, 322:01, 325:01, 326:01, 327:01, 328:01N, 333:01, 334:01:01-334:01:02, 335:01, 336:01, 340:01, 341:01, 345:01, 346:01, 348:01:01-348:01:02, 350:01, 353:01, 354:01:01-354:01:02, 356:01, 357:01N, 360:01, 362:01, 370:01, 371:01, 375:01, 376:01, 377:01, 378:01, 387:01, 388:01, 389:01, 392:01, 393:01, 396:01, 397:01, 398:01, 399:01, 403:01N, 411:01, 412:01, 415:01, 417:01:01-417:01:02, 418:01, 425:01, 426:01, 428:01, 435:01, 436:01, 437:01, 438:01, 440:01, 449:01, 450:01N, 451:01, 453:01, 454:01, 455:01N, 456:01, 458:01:01-458:01:02, 459:01, 462:01, 464:01, 465:01, 468:01, 471:01, 474:01, 475:01, 476:01, 480:01, 481:01, 482:01, 483:01, 485:01, 486:01, 487:01, 490:01, 493:01, 497:01, 500:01, 503:01, 512:01, 516:01, 517:01, 518:01, 519:01, 520:01, 521:01, 522:01, 523:01:01-523:01:02, 524:01, 529:01, 531:01, 534:01, 538:01, 542:01, 543:01, 544:01, 553:01, 554:01, 556:01, 559:01, 561:01, 562:01, 563:01, 564:01, 565:01, 569:01, 575:01, 576:01, 578:01, 580:01, 583:01, 584:01:01:01-584:01:02:02,

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MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

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35	195 bp	430 bp	*15:01:01:01-15:01:05, 74:01, 198:01, 290:01, 299:01, 345:01, 387:01, 471:01, 493:01, 585:01:01:01-585:01:01:02, 695:01, 768:01, 821:01N, 896:01, 903:01, 910:01, 1054:01, 1192:01, 1250:01, 1252:01
36	260 bp	**515 bp**	*15:01:01:01-15:01:05, 18:01:01:01-18:01:03, 28:01, 34:01:01:01-34:01:02, 40:01:01:01-40:01:02, 53:01, 62:01, 139:01, 198:01, 290:01, 292:01, 296:01, 299:01, 333:01, 345:01, 347:01, 387:01, 471:01, 482:01, 484:01, 493:01, 499:01, 512:01, 526:01, 580:01, 585:01:01:01-585:01:01:02, 644:01, 695:01, 745:01, 768:01, 821:01N, 835:01:01:01-835:01:01:03, 896:01, 897:01, 900:01, 903:01, 910:01, 913:01, 918:01, 942:01, 1054:01, 1109:01, 1136:01, 1142:01, 1165:01, 1192:01, 1201:01, 1219:01, 1250:01, 1252:01, 1286:01
37[6]	160 bp	430 bp	*13:01:01:01-13:01:05, 107:01, 110:01, 133:01, 160:01, 173:01, 246:01, 269:01, 278:01, 304:01, 362:01, 389:01, 393:01, 412:01, 449:01, 503:01, 518:01, 519:01, 538:01, 544:01, 564:01, 565:01, 597:01, 600:01, 612:01, 683:01, 703:01, 720:01, 822:01, 873:01N, 888:01, 893:01, 924:01, 947:01, 991:01, 996:01, 1008:01, 1045:01N, 1057:01, 1065:01, 1069:01, 1105:01, 1123:01, 1131:01, 1185:01, 1232:01, 1260:01N, 1264:01, 1288:01N, 1294:01
	185 bp		*15:01:01:01-15:01:05, 28:01, 40:01:01:01-40:01:02, 53:01, 74:01, 139:01, 198:01, 290:01, 296:01, 299:01, 345:01, 387:01, 471:01, 482:01, 493:01, 499:01, 512:01, 585:01:01:01-585:01:01:02, 644:01, 683:01, 695:01, 745:01, 752:01, 768:01, 821:01N, 896:01, 900:01, 903:01, 910:01, 918:01, 1054:01, 1109:01, 1136:01, 1192:01, 1219:01, 1250:01, 1252:01, 1286:01

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38[4,7]	95 bp	**515 bp**	*23:01:01:01-23:01:03, 34:01:01:01-34:01:02, 52:01, 55:01:01:01-55:01:03, 58:01, 62:01, 63:01, 67:01, 71:01:01-71:01:02, 87:01, 95:01, 103:01, 112:01, 121:01, 138:01, 201:01, 209:01, 227:01:03, 244:01, 295:01, 314:01, 322:01, 325:01, 333:01, 340:01, 371:01, 392:01, 435:01, 451:01, 458:01:01-458:01:02, 563:01, 576:01, 580:01, 599:01, 635:01, 787:01, 789:01, 830:01, 835:01:01:01-835:01:01:03, 908:01, 912:01, 913:01, 972:01, 1078:01, 1096:01, 1133:01, 1170:01
	170 bp		*186:01, 243:01, 657:01N, 787:01, 1090:01
	200 bp		*185:01, 611:01, 674:01, 1180:01
39	210 bp	**515 bp**	*28:01, 31:01:01:01-31:01:01:02, 34:01:01:01-34:01:02, 57:01, 59:01, 72:01:01:01-72:01:01:03, 73:01, 95:01, 102:01, 108:01, 139:01, 147:01, 152:01, 166:01, 179:01, 189:01, 235:01, 259:01, 285:01, 296:01, 299:01, 306:01, 309:01, 322:01, 333:01, 355:01, 379:01, 442:01, 451:01, 484:01, 499:01, 555:01, 574:01, 576:01, 580:01, 620:01, 648:01:01:01-648:01:01:02, 752:01, 782:01, 835:01:01:01-835:01:01:03, 913:01, 944:01, 945:01, 976:01, 1061:01, 1109:01, 1142:01, 1200:01, 1219:01, 1286:01
40[4]	95 bp	430 bp	*1209:01
	135 bp		*275:01
	180 bp		*30:01:01:01-30:01:01:02, 54:01, 408:01, 715:01
	230 bp		*14:01:01:01-14:01:11, 14:01:13, 35:01:01, 45:01, 66:01, 67:01, 76:01, 91:01:01:01-91:01:02, 98:01, 119:01, 125:01, 129:01, 197:01, 242:01, 243:01, 244:01, 312:01, 383:01, 385:01, 409:01, 445:01, 446:01, 490:01, 491:01, 492:01, 498:01, 503:01, 530:01, 540:01, 572:01, 629:01, 651:01, 671:01, 705:01, 715:01, 794:01N, 832:01, 834:01, 854:01, 891:01, 892:01, 908:01, 912:01, 949:01, 986:01N, 987:01, 990:01, 1029:01N, 1104:01, 1187:01, 1281:01
41[4,6,7]	75 bp	**515 bp**	*77:01, 245:01, 559:01, 1095:01, 1205:01
	225 bp		*154:01N
	250 bp		*31:01:01:01-31:01:01:02, 34:01:01:01-34:01:02, 94:01, 176:01, 484:01, 493:01, 575:01, 580:01, 805:01, 835:01:01:01-835:01:01:03, 843:01, 913:01, 945:01
	280 bp		*134:01, 177:01, 1296:01
42[7]	140 bp	430 bp	*97:01, 1108:01
	185 bp		*32:01
	210 bp		*176:01, 180:01, 805:01
	245 bp		*128:01
	285 bp		*82:01, 301:01, 339:01, 400:01
43[5]	200 bp	430 bp	*34:01:01:01-34:01:02, 62:01, 301:01, 333:01, 484:01, 580:01, 835:01:01:01-835:01:01:03, 913:01
44[4]	60 bp	430 bp	*282:01, 619:01
	115 bp		*99:01, 118:01, 220:01, 437:01, 453:01, 521:01, 1138:01
	150 bp		*38:01, 619:01, 698:01, 815:01, 1099:01
	185 bp		*111:01, 118:01, 120:01N, 220:01, 437:01, 1182:01
	240 bp		*38:01, 241:01, 1099:01, 1130:01
	270 bp		*64:01N
45[4,7]	120 bp	430 bp	*46:01:01:01-46:01:02, 80:01, 86:01, 108:01, 164:01, 214:01, 215:01, 235:01, 254:01, 332:01, 355:01, 508:01, 540:01, 555:01, 581:01, 601:01, 620:01, 762:01, 987:01, 1104:01, 1174:01
	160 bp		*253:01
	190 bp		*39:01:01:01-39:01:03, 49:01:01:01-49:01:01:03, 96:01, 117:01, 158:01, 172:01, 354:01:01-354:01:02, 440:01, 441:01, 474:01, 480:01, 531:01, 561:01, 584:01:01:01-584:01:02:02, 663:01, 916:01, 943:01, 1039:01, 1080:01
	240 bp		*115:01, 240:01, 962:01

CE

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46[4]	65 bp	430 bp	*41:01:01:01-41:01:02, 60:01, 69:01:01:01-69:01:01:02, 83:01, 136:01, 204:01, 205:01, 229:01, 309:01, 581:01, 659:01, 903:01
	210 bp		*41:01:01:01-41:01:02, 60:01, 83:01, 96:01, 147:01, 175:01, 179:01, 229:01, 299:01, 303:01, 309:01, 322:01, 419:01, 429:01, 581:01, 659:01, 1109:01
47[5]	165 bp	430 bp	*44:01, 114:01, 265:01, 394:01, 495:01, 599:01, 630:01, 746:01, 1229:01
	215 bp		*140:01
48[4,5,10]	115 bp	430 bp	*56:01, 66:01, 76:01, 92:01, 110:01, 125:01, 156:01, 207:01:01-207:01:02, 288:01, 294:01, 470:01, 566:01, 709:01, 749:01, 930:01, 1281:01
	210 bp		*61:01N
	280 bp		*85:01:01:01-85:01:02, 515:01, 713:01, 901:01, 1034:01
49[4,7]	95 bp	430 bp	*149:01
	130 bp		*198:01, 290:01, 343:01, 354:01:01-354:01:02, 370:01, 375:01, 387:01, 389:01, 522:01, 623:01, 663:01, 903:01, 1039:01, 1147:01, 1230:01
	205 bp		*143:01, 251:01, 552:01, 840:01
50[7]	170 bp	430 bp	*144:01, 146:01, 542:01, 637:01, 1216:01
	210 bp		*01:01:01:01-01:01:02:03, 01:01:04-01:01:08, 18:01:01:01-18:01:03, 89:01, 90:01:01-90:01:02, 118:01, 122:01, 127:01, 158:01, 159:01N, 162:01:01-162:01:02, 198:01, 199:01, 200:01, 201:01, 220:01, 246:01, 247:01, 248:01, 249:01, 267:01, 290:01, 291:01, 292:01, 315:01, 316:01, 326:01, 327:01, 346:01, 347:01, 369:01, 387:01, 403:01N, 417:01:01-417:01:02, 436:01, 440:01, 462:01, 481:01, 483:01, 536:01, 542:01, 543:01, 561:01, 599:01, 608:01, 616:01, 631:01, 632:01, 661:01N, 667:01, 710:01, 711:01, 733:01, 747:01, 800:01N, 807:01, 810:01, 853:01, 862:01N, 866:01N, 870:01N, 879:01:01:01-879:01:01:03, 897:01, 900:01, 903:01, 931:01, 942:01, 953:01, 960:01N, 969:01, 979:01, 984:01N, 998:01, 999:01, 1006:01, 1012:01, 1024:01, 1038:01Q, 1047:01, 1050:01:01-1050:01:02, 1068:01, 1073:01, 1076:01, 1137:01, 1151:01, 1162:01, 1165:01, 1169:01N, 1183:01, 1201:01, 1205:01, 1256:01N, 1277:01, 1287:01
51	170 bp	430 bp	*145:01, 382:01N
	225 bp		*452:01, 570:01N
52	130 bp	430 bp	*151:01
	160 bp		*511:01
	215 bp		*165:01, 289:01, 452:01, 570:01N
53[4,8,9]	90 bp	430 bp	*157:01, 321:01, 801:01
	145 bp		*221:01, 501:01, 573:01, 595:01
	175 bp		*391:01, 467:01, 712:01N, 770:01
	200 bp		*153:01, 163:01, 242:01
54[4]	115 bp	430 bp	*161:01N, 505:01, 507:01N, 546:01
	175 bp		*683:01
	200 bp		*04:01:01:24N, 159:01N, 160:01, 328:01N, 454:01, 1045:01N, 1121:01N
55	135 bp	430 bp	*155:01:01-155:01:02
	165 bp		*382:01N, 511:01
	190 bp		*115:01, 218:01N, 393:01, 1007:01
56	145 bp	430 bp	*174:01, 658:01
	180 bp		*84:01, 148:01
	230 bp		*170:01, 239:01, 260:01, 487:01
	290 bp		*08:01[?], 60:01[?], 62:01[?], 73:01[?], 75:01[?], 102:01[?], 237:01, 722:01

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57	255 bp	430 bp	*04:02:01:01-04:02:19, 05:01:03?-05:01:06?, 06:01:02?-06:01:03?, 08:01?, 09:01:03?-09:01:04?, 10:01:02?-10:01:03?, 11:01:02?-11:01:03?, 20:01:02?-20:01:03?, 26:01:01?, 26:01:03?, 32:01?, 37:01?, 41:01:02?, 44:01?, 56:01?, 58:01?, 59:01, 60:01?, 61:01N?, 62:01?, 65:01:01?-65:01:02?, 66:01?, 67:01?, 68:01?, 70:01?, 71:01:02?, 73:01?, 74:01?, 75:01?, 77:01, 79:01?, 80:01?, 82:01?, 83:01?, 84:01?, 85:01:02?, 86:01?, 87:01?, 89:01?, 90:01:02?, 92:01?, 94:01?, 95:01?, 96:01?, 97:01?, 98:01?, 99:01?, 100:01?, 101:01?, 102:01?, 103:01?, 108:01?, 110:01?, 111:01?, 112:01?, 113:01?, 114:01?, 116:01?, 117:01?, 118:01?, 119:01?, 120:01N?, 122:01?, 125:01?, 126:01:01:01-126:01:01:03, 129:01?, 138:01, 139:01?, 140:01?, 142:01?, 143:01?, 144:01?, 145:01?, 146:01?, 147:01?, 148:01?, 149:01?, 150:01?, 151:01?, 153:01?, 154:01N?, 155:01:01?-155:01:02?, 156:01?, 157:01?, 158:01?, 159:01N?, 160:01?, 161:01N?, 163:01?, 164:01?, 166:01?, 167:01?, 169:01?, 170:01?, 171:01?, 172:01?, 173:01?, 174:01?, 175:01?, 176:01?, 177:01?, 179:01?, 180:01?, 181:01?, 182:01?, 183:01?, 184:01, 185:01?, 186:01?, 188:01?, 189:01?, 190:01, 192:01:01?, 193:01?, 194:01?, 195:01?, 196:01?, 197:01?, 198:01?, 199:01?, 200:01?, 201:01?, 202:01?, 203:01:01?-203:01:02?, 204:01?, 205:01?, 206:01?, 207:01:01?, 209:01?, 210:01?, 211:01?, 212:01?, 213:01:01?, 214:01?, 215:01?, 216:01N?, 217:01?, 218:01N?, 219:01?, 220:01?, 221:01?, 222:01?, 223:01?, 224:01?, 226:01?, 227:01:01?, 228:01?, 229:01?, 230:01?, 231:01?, 232:01?, 233:01?, 234:01?, 235:01?, 236:01:02?, 237:01?, 238:01?, 239:01?, 240:01?, 241:01?, 242:01?, 243:01?, 245:01?, 246:01?, 247:01?, 248:01?, 249:01?, 250:01?, 251:01?, 252:01?, 253:01?, 254:01?, 255:01?, 256:01?, 257:01, 258:01?, 259:01?, 260:01, 261:01?, 262:01?, 263:01?, 264:01?, 265:01?, 266:01?, 267:01?, 268:01?, 269:01?, 270:01?, 271:01?, 272:01?, 273:01?, 274:01?, 275:01?, 276:01?, 277:01?, 278:01?, 279:01:01?-279:01:02?, 280:01?, 281:01?, 282:01?, 283:01?, 284:01?, 285:01?, 286:01?, 287:01?, 288:01?, 289:01?, 290:01?, 291:01?, 292:01?, 293:01?, 294:01?, 295:01?, 297:01?, 298:01?, 299:01?, 300:01?, 301:01?, 302:01?, 303:01?, 304:01?, 305:01?, 306:01?, 307:01?, 308:01?, 309:01?, 310:01?, 311:01?, 312:01?, 313:01?, 314:01?, 315:01?, 316:01?, 317:01?, 318:01?, 319:01?, 320:01?, 321:01?, 322:01?, 323:01?, 324:01?, 325:01?, 326:01?, 327:01?, 329:01?, 330:01?, 331:01?, 332:01?, 333:01?, 334:01:01?, 335:01?, 336:01?, 337:01?, 338:01?, 339:01?, 340:01?, 341:01?, 342:01?, 343:01?, 344:01?, 345:01?, 346:01?, 347:01?, 348:01:01?-348:01:02?, 349:01?, 351:01, 354:01:01?-354:01:02?, 355:01?, 356:01?, 357:01N?, 358:01?, 359:01?, 360:01?, 361:01?, 362:01?, 363:01?, 364:01?, 365:01?, 366:01?, 367:01?, 368:01?, 369:01?, 370:01?, 371:01?, 372:01?, 373:01?, 374:01?, 375:01?, 376:01?, 377:01?, 378:01?, 379:01?, 380:01?, 381:01?, 382:01N?, 383:01?, 384:01?, 385:01?, 386:01?, 387:01?, 388:01?, 389:01?, 390:01?, 391:01?, 392:01?, 393:01?, 394:01?, 395:01?, 396:01?, 397:01?, 399:01?, 400:01?, 401:01:01N?, 402:01?, 403:01N?, 404:01?, 405:01?, 406:01?, 407:01?, 408:01?, 409:01?, 410:01?, 411:01?, 412:01?, 413:01?, 416:01:01:01-416:01:02, 418:01?, 419:01?, 420:01?, 421:01?, 422:01?, 423:01:01?-423:01:02?, 424:01?, 425:01?, 426:01?, 427:01?, 428:01?, 429:01?, 430:01?, 431:01?, 432:01?, 433:01?, 434:01?, 435:01?, 436:01?, 437:01?, 438:01?, 439:01?, 441:01?, 442:01?, 443:01?, 444:01?, 445:01?, 446:01?, 447:01?, 448:01?, 449:01?, 450:01N?, 451:01?, 452:01?, 453:01?, 454:01?, 455:01N?, 456:01?, 457:01?, 458:01:01?, 460:01, 462:01, 465:01?, 466:01?, 467:01?, 468:01?, 469:01?, 470:01?, 471:01?, 472:01?, 473:01?, 474:01?, 475:01?, 476:01?, 477:01?, 478:01?,

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58[4,5]	95 bp	430 bp	*02:01:24?, 02:01:26?-02:01:33?, 02:01:35?-02:01:36?, 02:01:38?-02:01:41?, 02:01:43?-02:01:58?, 02:01:61?-02:01:62?, 02:02:02?, 02:02:04?, 03:01:09?, 03:01:13?-03:01:14?, 03:01:18?-03:01:19?, 04:01:41?, 04:01:44?-04:01:45?, 04:01:47?, 04:02:17?-04:02:19?, 05:01:08?-05:01:11?, 05:01:13?, 05:01:15?, 06:01:05?, 08:01?, 09:01:03?-09:01:05?, 10:01:02?-10:01:06?, 11:01:02?-11:01:04?, 14:01:02?-14:01:04?, 14:01:06?-14:01:12?, 17:01:02?-17:01:03?, 18:01:02?-18:01:03?, 20:01:02?-20:01:03?, 23:01:02?, 26:01:01?, 26:01:03?, 32:01?, 34:01:02?, 37:01?, 40:01:02?, 41:01:02?, 44:01?, 46:01:02?, 55:01:02?-55:01:03?, 56:01?, 58:01?, 60:01?, 61:01N?, 62:01?, 65:01:01?-65:01:02?, 66:01?, 67:01?, 68:01?, 70:01?, 71:01:02?, 73:01?, 74:01?, 75:01?, 79:01?, 81:01:02?, 82:01?, 83:01?, 84:01?, 85:01:02?, 86:01?, 87:01?, 89:01?, 90:01:02?, 91:01:02?, 92:01?, 94:01?, 95:01?, 96:01?, 97:01?, 98:01?, 99:01?, 100:01?, 101:01?, 102:01?, 103:01?, 104:01:03?-104:01:04?, 104:01:06?, 107:01, 108:01?, 110:01?, 111:01?, 112:01?, 113:01?, 114:01?, 116:01?, 117:01?,

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MA124 v02 SSP PI Template
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74[4,7]	115 bp	430 bp	*181:01, 406:01
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857:01?, 858:01?, 859:01?, 860:01?, 861:01?, 862:01N?, 863:01?, 864:01?, 865:01N?, 866:01N?, 867:01N?, 868:01N?, 869:01N?, 870:01N?, 871:01N?, 872:01N?, 873:01N?, 874:01N?, 875:01N?, 876:01N?, 877:01N?, 878:01N, 879:01:01:01-879:01:01:03, 880:01, 881:01, 882:01, 883:01?, 884:01?, 885:01?, 886:01?, 887:01?, 888:01?, 889:01?, 890:01?, 891:01?, 892:01?, 893:01?, 894:01N?, 895:01?, 896:01, 897:01?, 898:01?, 899:01?, 900:01?, 901:01?, 902:01?, 903:01?, 904:01?, 905:01, 906:01, 907:01:01-907:01:02, 908:01?, 909:01, 910:01?, 911:01N?, 912:01?, 913:01?, 914:01?, 915:01?, 916:01?, 917:01N?, 918:01?, 919:01N?, 920:01?, 921:01?, 922:01?, 923:01?, 924:01?, 925:01N?, 926:01?, 927:01?, 928:01?, 929:01?, 930:01?, 931:01?, 932:01?, 933:01?, 934:01Q?, 935:01Q?, 936:01Q?, 937:01?, 938:01, 939:01, 940:01?, 941:01N?, 942:01?, 943:01?, 944:01?, 945:01?, 947:01, 948:01, 949:01, 950:01N, 952:01, 953:01, 954:01, 955:01, 956:01, 957:01, 958:01, 959:01N, 960:01N?, 961:01?, 962:01?, 963:01?, 964:01?, 966:01, 967:01, 968:01, 969:01?, 970:01?, 971:01?, 972:01?, 973:01?, 974:01N?, 975:01, 976:01?, 977:01?, 978:01, 979:01, 980:01?, 981:01, 982:01?, 983:01, 984:01N?, 985:01N?, 986:01N?, 987:01?, 988:01?, 989:01?, 990:01?, 991:01?, 992:01?, 993:01?, 994:01?, 995:01N?, 996:01?, 997:01?, 998:01?, 999:01?, 1000:01?, 1001:01?, 1002:01?, 1003:01?, 1004:01?, 1005:01?, 1006:01?, 1007:01?, 1008:01?, 1009:01?, 1010:01?, 1011:01, 1012:01?, 1013:01?, 1014:01?, 1015:01?, 1016:01?, 1017:01?, 1018:01?, 1019:01?, 1020:01?, 1021:01?, 1022:01?, 1023:01?, 1024:01?, 1025:01?, 1026:01?, 1027:01?, 1028:01?, 1029:01N?, 1030:01?, 1031:01?, 1032:01, 1033:01, 1035:01, 1036:01, 1038:01Q?, 1039:01?, 1040:01, 1041:01N?, 1042:01?, 1043:01?, 1044:01N, 1045:01N?, 1046:01?, 1047:01?, 1048:01?, 1049:01, 1051:01, 1052:01, 1053:01, 1054:01, 1055:01, 1056:01?, 1057:01, 1059:01?, 1060:01?, 1062:01?, 1063:01?, 1064:01?, 1065:01?, 1066:01, 1067:01, 1068:01?, 1069:01, 1070:01N?, 1071:01, 1072:01, 1073:01?, 1074:01?, 1075:01?, 1076:01?, 1077:01, 1078:01?, 1079:01N?, 1080:01?, 1081:01, 1082:01, 1083:01, 1084:01N, 1085:01, 1086:01, 1087:01, 1088:01, 1089:01, 1090:01, 1091:01, 1092:01Q?, 1093:01?, 1094:01?, 1096:01, 1097:01, 1098:01N, 1100:01, 1102:01, 1103:01, 1104:01, 1105:01, 1106:01, 1107:01, 1108:01, 1109:01, 1110:01, 1111:01, 1112:01N?, 1113:01, 1114:01, 1115:01?, 1116:01, 1121:01N?, 1122:01, 1123:01, 1124:01, 1125:01, 1126:01, 1127:01, 1128:01, 1129:01, 1130:01, 1131:01, 1132:01, 1134:01, 1135:01N, 1136:01, 1137:01, 1138:01?, 1139:01, 1140:01, 1141:01?, 1142:01, 1143:01?, 1144:01, 1145:01, 1146:01, 1147:01, 1148:01Q, 1150:01?, 1151:01, 1152:01, 1153:01, 1154:01N?, 1155:01, 1157:01, 1158:01, 1159:01?, 1160:01?, 1161:01?, 1162:01?, 1163:01?, 1164:01?, 1165:01, 1166:01?, 1167:01?, 1168:01, 1169:01N?, 1170:01, 1171:01, 1172:01?, 1173:01, 1174:01?, 1175:01?, 1176:01?, 1177:01, 1178:01?, 1179:01, 1180:01?, 1181:01?, 1182:01?, 1183:01?, 1184:01?, 1185:01, 1186:01?, 1187:01?, 1188:01, 1190:01?, 1191:01N, 1192:01, 1193:01N, 1195:01?, 1196:01, 1197:01, 1198:01, 1200:01, 1201:01, 1202:01N?, 1203:01, 1204:01, 1205:01, 1206:01, 1207:01, 1208:01, 1209:01?, 1210:01?, 1211:01, 1212:01?, 1213:01?, 1214:01?, 1215:01?, 1216:01?, 1217:01?, 1218:01, 1219:01?, 1220:01, 1221:01?, 1222:01, 1223:01, 1224:01, 1225:01?, 1226:01, 1227:01, 1228:01N, 1229:01, 1230:01?, 1231:01, 1232:01, 1233:01, 1234:01, 1235:01, 1236:01, 1237:01, 1238:01, 1239:01, 1241:01, 1242:01, 1243:01, 1244:01, 1247:01, 1248:01, 1249:01, 1250:01, 1251:01, 1252:01, 1253:01, 1254:01, 1256:01N, 1258:01, 1259:01, 1260:01N, 1261:01, 1262:01, 1263:01, 1264:01, 1265:01, 1266:01Q, 1267:01?,

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			1268:01, 1269:01N$^?$, 1270:01$^?$, 1271:01$^?$, 1274:01, 1275:01N, 1276:01$^?$, 1277:01, 1278:01, 1279:01N, 1280:01, 1281:01$^?$, 1283:01, 1284:01, 1285:01N, 1286:01, 1287:01, 1288:01N, 1290:01, 1292:01, 1294:01, 1295:01, 1296:01, 1297:01, 1298:01, 1299:01N
83	160 bp	430 bp	*04:01:01:01-04:01:59, 04:01:61, 11:01:01:01-11:01:05, 15:01:01:01-15:01:05, 24:01, 27:01, 28:01, 31:01:01:01-31:01:01:02, 33:01:01:01-33:01:01:05, 39:01:01:01-39:01:03, 40:01:01:01-40:01:02, 49:01:01:01-49:01:01:03, 51:01:01:01-51:01:01:02, 53:01, 66:01, 72:01:01:01-72:01:01:03, 74:01, 81:01:01:01-81:01:02, 85:01:01:01-85:01:02, 89:01, 96:01, 99:01, 102:01, 117:01, 120:01N, 121:01, 126:01:01:01-126:01:01:03, 139:01, 147:01, 149:01, 156:01, 158:01, 169:01, 172:01, 174:01, 175:01, 176:01, 177:01, 178:01, 179:01, 180:01, 181:01, 192:01:01-192:01:02, 193:01, 194:01, 195:01, 198:01, 199:01, 202:01, 204:01, 205:01, 206:01, 207:01:01-207:01:02, 212:01, 213:01:01-213:01:02, 214:01, 215:01, 224:01, 225:01, 227:01:03, 228:01, 229:01, 230:01, 232:01, 240:01, 247:01, 250:01, 253:01, 254:01, 255:01, 262:01, 264:01, 268:01, 272:01, 275:01, 276:01, 277:01, 279:01:01-279:01:02, 280:01, 281:01, 282:01, 283:01, 287:01, 290:01, 294:01, 296:01, 298:01, 299:01, 302:01, 303:01, 305:01, 319:01, 320:01, 323:01, 328:01N, 334:01:01-334:01:02, 335:01, 336:01, 337:01, 341:01, 345:01, 348:01:01-348:01:02, 350:01, 354:01:01-354:01:02, 355:01, 356:01, 357:01N, 360:01, 370:01, 372:01, 375:01, 376:01, 378:01, 387:01, 388:01, 396:01, 397:01, 398:01, 399:01, 415:01, 418:01, 425:01, 426:01, 427:01, 428:01, 434:01, 437:01, 450:01N, 453:01, 454:01, 455:01N, 456:01, 459:01, 464:01, 465:01, 468:01, 471:01, 474:01, 475:01, 476:01, 479:01, 480:01, 482:01, 485:01, 486:01, 487:01, 493:01, 512:01, 517:01, 520:01, 521:01, 522:01, 523:01:01-523:01:02, 524:01, 529:01, 531:01, 534:01, 553:01, 554:01, 555:01, 556:01, 559:01, 561:01, 566:01, 569:01, 574:01, 575:01, 578:01, 583:01, 584:01:01:01-584:01:02:02, 585:01:01:01-585:01:01:02, 591:01, 592:01, 593:01, 607:01, 614:01, 615:01, 618:01, 623:01, 625:01, 633:01, 642:01, 643:01, 644:01, 649:01, 654:01, 658:01, 663:01, 666:01, 670:01, 672:01, 677:01, 679:01, 682:01, 683:01, 686:01, 687:01, 694:01, 696:01N, 699:01, 702:01, 707:01, 713:01, 716:01, 722:01, 732:01N, 736:01, 739:01, 742:01, 743:01N, 745:01, 747:01, 748:01N, 749:01, 750:01, 752:01, 753:01, 754:01N, 755:01, 756:01N, 757:01, 758:01, 761:01, 765:01, 767:01, 768:01, 769:01, 772:01, 773:01, 784:01, 788:01, 795:01:01-795:01:02, 803:01, 804:01, 806:01:01:01-806:01:01:02, 808:01, 811:01, 812:01, 813:01, 814:01, 820:01, 821:01N, 824:01:01-824:01:02, 826:01, 828:01, 837:01, 838:01N, 840:01, 842:01, 844:01N, 849:01, 850:01, 852:01, 856:01, 859:01, 867:01N, 868:01N, 871:01N, 874:01N, 875:01N, 878:01N, 880:01, 882:01, 895:01, 896:01, 900:01, 901:01, 903:01, 907:01:01-907:01:02, 910:01, 911:01N, 915:01, 918:01, 921:01, 922:01, 926:01, 930:01, 932:01, 937:01, 939:01, 943:01, 945:01, 957:01, 966:01, 974:01N, 978:01, 980:01, 988:01, 989:01, 992:01, 993:01, 997:01, 1001:01, 1002:01, 1003:01, 1004:01, 1010:01, 1011:01, 1016:01, 1023:01, 1033:01, 1034:01, 1039:01, 1040:01, 1042:01, 1046:01, 1048:01, 1054:01, 1060:01, 1062:01, 1063:01, 1064:01, 1066:01, 1074:01, 1079:01N, 1080:01, 1081:01, 1086:01, 1091:01, 1097:01, 1100:01, 1108:01, 1109:01, 1112:01N, 1113:01, 1121:01N, 1129:01, 1132:01, 1135:01N, 1136:01, 1138:01, 1139:01, 1144:01, 1146:01, 1148:01Q, 1152:01, 1155:01, 1161:01, 1164:01, 1167:01, 1173:01, 1177:01, 1181:01, 1184:01, 1192:01, 1193:01N, 1195:01, 1196:01, 1204:01, 1206:01, 1207:01, 1208:01, 1212:01, 1214:01, 1215:01, 1216:01, 1217:01,

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			1218:01, 1219:01, 1220:01, 1221:01, 1222:01, 1223:01, 1225:01, 1226:01, 1231:01, 1234:01, 1237:01, 1238:01, 1241:01, 1242:01, 1244:01, 1249:01, 1250:01, 1252:01, 1262:01, 1268:01, 1271:01, 1274:01, 1275:01N, 1277:01, 1279:01N, 1284:01, 1286:01, 1292:01, 1297:01, 1299:01N
	215 bp		*169:01
84[7]	200 bp	430 bp	*180:01, 418:01, 432:01, 604:01
	260 bp		*171:01, 177:01, 186:01, 338:01, 787:01,1296:01
85[4,7]	110 bp	**515 bp**	*572:01, 923:01, 1021:01
	195 bp		*498:01, 1246:01
	280 bp		*585:01:01:01-585:01:01:02, 1119:01
86[4,7]	125 bp	430 bp	*190:01, 796:01
	170 bp		*485:01
	195 bp		*354:01:01-354:01:02, 375:01, 480:01, 531:01, 663:01, 693:01N, 1039:01, 1230:01
	220 bp		*360:01, 520:01
87	145 bp	430 bp	*327:01, 619:01, 698:01, 815:01, 1204:01
	230 bp		*329:01, 587:01, 929:01
88[4]	80 bp	430 bp	*15:01:01:01-15:01:05, 18:01:01:01-18:01:03, 28:01, 40:01:01:01-40:01:02, 53:01, 62:01, 74:01, 139:01, 198:01, 290:01, 292:01, 296:01, 299:01, 333:01, 347:01, 387:01, 471:01, 482:01, 499:01, 512:01, 526:01, 585:01:01:01-585:01:01:02, 644:01, 695:01, 745:01, 752:01, 821:01N, 896:01, 897:01, 900:01, 903:01, 910:01, 918:01, 942:01, 1054:01, 1109:01, 1136:01, 1142:01, 1165:01, 1192:01, 1201:01, 1219:01, 1250:01, 1252:01, 1286:01
89[7]	245 bp	430 bp	*187:01, 357:01N, 401:01:01N
90[4,6]	80 bp	**515 bp**	*571:01
	125 bp		*700:01N
	215 bp		*534:01
91	155 bp	**515 bp**	*464:01, 535:01, 617:01, 699:01
	220 bp		*534:01
92[4]	115 bp	430 bp	*403:01N
	165 bp		*445:01
	195 bp		*691:01N
	230 bp		*533:01
93[7]	185 bp	430 bp	*634:01
	225 bp		*404:01, 598:01N, 661:01N
	255 bp		*450:01N
94	160 bp	430 bp	*01:01:01:01-01:01:04, 01:01:06-01:01:08, 26:01:01-26:01:03, 56:01, 65:01:01-65:01:02, 76:01, 90:01:01-90:01:02, 92:01, 118:01, 122:01, 125:01, 127:01, 142:01, 150:01,159:01N, 162:01:01-162:01:02, 203:01:01-203:01:02, 220:01, 267:01, 288:01, 291:01, 306:01, 315:01, 326:01, 327:01, 346:01, 363:01, 377:01, 385:01, 403:01N, 411:01, 417:01:01-417:01:02, 436:01, 440:01, 442:01, 462:01, 470:01, 481:01, 483:01, 490:01, 499:01, 514:01, 516:01, 536:01, 542:01, 543:01, 562:01, 609:01, 616:01, 626:01, 631:01, 632:01, 636:01, 661:01N, 667:01, 708:01, 709:01, 710:01, 711:01, 733:01, 800:01N, 807:01, 810:01, 825:01, 853:01, 862:01N, 866:01N, 870:01N, 879:01:01:01-879:01:01:03, 904:01, 916:01, 931:01, 953:01, 960:01N, 969:01, 976:01, 979:01, 984:01N, 998:01, 999:01, 1012:01, 1024:01, 1038:01Q, 1050:01:01-1050:01:02, 1068:01, 1076:01, 1088:01, 1137:01, 1140:01, 1141:01, 1147:01, 1150:01, 1151:01, 1162:01, 1166:01, 1169:01N, 1183:01, 1205:01, 1256:01N, 1281:01, 1287:01

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	190 bp		*11:01:02?, 56:01?, 74:01? 102:01?, 454:01, 486:01, 722:01
	240 bp		*08:01, 57:01, 65:01:01-65:01:02, 68:01, 73:01, 75:01, 84:01, 150:01, 188:01, 234:01, 285:01, 306:01, 377:01, 442:01, 499:01, 620:01, 626:01, 648:01:01:01-648:01:01:02, 904:01, 916:01, 976:01, 1140:01, 1150:01, 1200:01
	270 bp		*08:01?, 60:01?, 62:01?, 73:01?, 75:01?, 102:01?, 237:01, 454:01, 486:01, 722:01, 775:01, 1236:01
95	140 bp	430 bp	*13:01:01:01-13:01:05, 107:01, 117:01, 133:01, 160:01, 172:01, 173:01, 198:01ʷ, 206:01, 246:01, 247:01, 269:01, 287:01, 362:01, 389:01ʷ, 393:01, 438:01, 441:01, 449:01, 474:01, 503:01, 514:01, 518:01, 519:01, 544:01, 561:01, 564:01, 565:01, 597:01, 600:01, 609:01, 612:01, 631:01, 633:01, 634:01, 663:01ʷ, 703:01, 711:01, 716:01, 822:01, 873:01N, 888:01, 893:01, 924:01, 947:01, 991:01, 996:01, 1008:01, 1045:01N, 1057:01, 1065:01, 1069:01, 1105:01, 1123:01, 1131:01, 1145:01, 1185:01, 1232:01, 1260:01N, 1264:01ʷ, 1288:01N, 1294:01
	220 bp		*06:01:01:01-06:01:06, 13:01:01:01-13:01:05, 21:01, 29:01, 37:01, 44:01, 88:01, 93:01, 107:01, 109:01, 110:01, 117:01, 133:01, 160:01, 161:01N, 198:01, 200:01, 206:01, 208:01, 246:01, 247:01, 249:01, 269:01, 295:01, 347:01, 349:01, 362:01, 371:01, 389:01, 393:01, 413:01, 438:01, 448:01, 449:01, 518:01, 519:01, 544:01, 546:01, 550:01, 561:01, 563:01, 564:01, 565:01, 566:01, 567:01, 597:01, 600:01, 601:01, 608:01, 609:01, 612:01, 631:01, 633:01, 634:01, 662:01, 663:01, 703:01, 711:01, 717:01, 737:01, 746:01, 822:01, 873:01N, 888:01, 893:01, 906:01, 909:01, 914:01, 920:01, 924:01, 947:01, 991:01, 996:01, 1006:01, 1008:01, 1019:01, 1022:01, 1045:01N, 1047:01, 1057:01, 1065:01, 1069:01, 1087:01, 1105:01, 1111:01, 1123:01, 1127:01, 1131:01, 1145:01, 1170:01, 1185:01, 1186:01, 1190:01, 1232:01, 1251:01, 1259:01, 1260:01N, 1264:01, 1278:01, 1288:01N, 1294:01
96[11]	-	-	**Negative Control**

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

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length.

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 inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

[2]The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

[3]For several DPB1 alleles 1st and/or 3rd exon(s) and beyond, as well as intron nucleotide sequences, are not available and thus the primer pairs in primer mixes 57, 58, 59, 60, 62 and 82 may amplify other DPB1 alleles. In these instances it is not known whether some of the primers of the SSP sets are completely matched

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with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

   [4]HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

   [5]Primer mixes 9, 27, 43, 47, 48, 58 and 82 may give rise to a lower yield of HLA-specific PCR product than the other DPB1 primer mixes.

   [6]Primer mixes 3, 12, 26, 37, 41, 65, 80 and 90 have a tendency to give rise to primer oligomer formation.

   [7]Primer mixes 23, 25, 32, 38, 41, 42, 45, 49, 50, 62, 68, 74, 84, 85, 86, 89 and 93 may have tendencies of unspecific amplifications, most pronounced in primer mix 89.

   [8]Primer mix 53 has a tendency of primer oligomer formation and additionally an intense primer cloud due to the high number of primers present in the primer mix.

   [9]In primer mix 53 the positive control band may be weaker than for other DPB1 primer mixes.
   Primer mix 53 may weakly amplify DPB1*104:01 alleles.

   [10]In primer mix 48 the specific PCR product of 280 base pairs may give rise to a lower yield of HLA-specific PCR product than the other DPB1 primer mixes. Optimized gel electrophoresis run time may need to be considered to ensure separation from the control band.

   [11]Primer mix 96 contains a negative control, which will amplify the majority of the HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.

Abbreviations
w: might be weakly amplified.
?: nucleotide sequence information not available for the primer matching sequence.

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PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	245	220	140	140	235	165	160	210	165	220	145	80
											185	
Length of int. pos. control[1]	515	515	430	430	515	430	430	515	430	515	515	515
5'-primer(s)[2]	9(112) 5'-TgT 3'	9(112) 5'-TgT 3'	21(150) 5'-ACA 3'	36(194) 5'-CgC 3'	11(119) 5'-ggg 3'	35(191) 5'-gTA 3'	36(194) 5'-CgC 3'	9(113) 5'-TTT 3'	35(190) 5'-AgC 3'	9(113) 5'-TTT 3'	35(191) 5'-gTT 3'	55(252) 5'-gAT 3'
	9(112) 5'-TgT 3'	9(112) 5'-TgT 3'		36(194) 5'-CgC 3'	11(119) 5'-ggg 3'	35(191) 5'-gTA 3'	36(194) 5'-CgC 3'		36(194) 5'-CgT 3'			55(252) 5'-gAC 3'
												55(252) 5'-gAT 3'
3'-primer(s)[3]	76(315) 5'-CAT 3'	69(292) 5'-CTT 3'	55(251) 5'-CAg 3'	69(292) 5'-CTT 3'	76(313) 5'-CAC 3'	76(313) 5'-CAC 3'	76(313) 5'-CAC 3'	65(280) 5'-TAT 3'	76(313) 5'-CAT 3'	69(292) 5'-CTC 3'	69(293) 5'-gCC 3'	69(292) 5'-CTC 3'
				69(292) 5'-CTT 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	65(280) 5'-gAT 3'	76(313) 5'-TAT 3'		84(337) 5'-gTT 3'	
					76(315) 5'-CAg 3'			65(280) 5'-AAT 3'	76(315) 5'-CAg 3'		84(338) 5'-CgC 3'	
								65(281) 5'-ggT 3'				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	180	105	200	80	260	180	200	235	100	185	145	195
		175		165							210	265
				210								
Length of int. pos. control[1]	430	430	430	430	515	430	430	515	430	430	430	515
5'-primer(s)[2]	9(113) 5'-TTT 3'	11(119) 5'-gTT 3'	28(169) 5'-gAg 3'	12(121) 5'-gAT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	57(258) 5'-gAC 3'	36(194) 5'-CgC 3'	12(121) 5'-gAT 3'	9(113) 5'-TTT 3'
		11(119) 5'-gTT 3'	35(190) 5'-AgC 3'	28(169) 5'-gAg 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'		36(194) 5'-CgC 3'	12(122) 5'-ACA 3'	
		35(190) 5'-AgC 3'		56(254) 5'-TgA 3'							35(190) 5'-AgC 3'	
3'-primer(s)[3]	55(252) 5'-gCC 3'	55(252) 5'-gCC 3'	84(338) 5'-CgC 3'	69(292) 5'-CTT 3'	84(338) 5'-CgT 3'	57(258) 5'-TAg 3'	65(280) 5'-gAg 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	84(338) 5'-CgC 3'	69(292) 5'-CTT 3'	60(265) 5'-gTg 3'
				69(292) 5'-CTT 3'							69(292) 5'-CTT 3'	84(338) 5'-CgT 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

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For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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Lot No.: **9N1**   Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	200	75	95	200	105	185	120	75	105	210	195	260
PCR product	265	205	215	260	160		215	200	145			
			240		220			260	195			
Length of int. pos. control[1]	515	515	430	430	515	430	515	430	430	430	430	515
5'-primer(s)[2]	9(112) 5'-Tgg 3'	15(130) 5'-AAg 3'	10(116) 5'-CCg 3'	11(119) 5'-gTT 3'	9(112) 5'-TgC 3'	9(112) 5'-TgC 3'	26(164) 5'-ggT 3'	9(113) 5'-TTC 3'	15(130) 5'-AAg 3'	9(112) 5'-TgC 3'	33(184) 5'-ggC 3'	11(119) 5'-ggg 3'
	28(169) 5'-gAg 3'	57(258) 5'-gAC 3'	11(119) 5'-ggg 3'	11(119) 5'-gTT 3'	107(406) 5'-CCT 3'		57(258) 5'-gAg 3'	14(127) 5'-AgC 3'	22(151) 5'-CAT 3'		33(184) 5'-ggC 3'	11(119) 5'-ggg 3'
	35(190) 5'-AgC 3'	60(265) 5'-ggC 3'	16(133) 5'-gCC 3'					32(181) 5'-ACT 3'	36(194) 5'-CgC 3'			11(119) 5'-ggg 3'
			18(139) 5'-Cgg 3'					33(184) 5'-ggC 3'	36(194) 5'-CgC 3'			
			57(258) 5'-gAC 3'					33(184)				
								73(305) 5'-gCT 3'				
3'-primer(s)[3]	84(338) 5'-CgT 3'	69(292) 5'-CTC 3'	76(313) 5'-CAT 3'	65(280) 5'-gAT 3'	69(292) 5'-CTC 3'	57(258) 5'-TAg 3'	84(338) 5'-CgT 3'	84(338) 5'-CgT 3'	57(258) 5'-TAg 3'	65(280) 5'-gAg 3'	84(338) 5'-CgA 3'	84(338) 5'-CgA 3'
			76(313) 5'-TAT 3'	84(337) 5'-gTT 3'	128(470) 5'-ATT 3'		84(338) 5'-CgT 3'		69(292) 5'-CTC 3'			
					147(527) 5'-TAT 3'				85(341) 5'-gCC 3'			
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

101.311-24/04 – including *Taq* polymerase
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Lot No.: **9N1**   Lot-specific information

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	160	95	210	95	75	140	200	60	120	65	165	115
PCR product	185	170		135	225	185		115	160	210	215	210
		200		180	250	210		150	190			280
				230	280	245		185	240			
						285		240				
								270				
Length of int. pos. control[1]	430	515	515	430	515	430	430	430	430	430	430	430
5'-primer(s)[2]	36(194)	35(190)	9(113)	9(112)	1st I	9(113)	35(190)	7(108)	17(136)	9(113)	35(190)	11(119)
	5'-CgC 3'	5'-AgC 3'	5'-TTT 3'	5'-TgC 3'	5'-CAT 3'	5'-TTT 3'	5'-AgC 3'	5'-TAA 3'	5'-ACA 3'	5'-TTT 3'	5'-AgC 3'	5'-gTT 3'
	36(194)	36(194)		37(197)				10(115)	17(137)	56(254)		11(119)
	5'-CgC 3'	5'-CgT 3'		5'-gCC 3'				5'-TCT 3'	5'-CgT 3'	5'-TgA 3'		5'-gTT 3'
		39(202)						17(136)	35(191)			
		5'-TCT 3'						5'-ACC 3'	5'-gTA 3'			
								18(140)	35(191)			
								5'-gTg 3'	5'-gTA 3'			
								28(169)	45(220)			
								5'-gAg 3'	5'-Agg 3'			
								32(182)	56(254)			
								5'-CCC 3'	5'-TgT 3'			
								32(182)	57(258)			
								5'-CCA 3'	5'-gAC 3'			
								49(233)				
								5'-gAT 3'				
3'-primer(s)[3]	76(313)	55(251)	65(280)	55(252)	12(122)	43(214)	84(338)	55(251)	84(338)	59(264)	76(315)	35(191)
	5'-TAT 3'	5'-CAg 3'	5'-gAg 3'	5'-gCC 3'	5'-gCA 3'	5'-CCA 3'	5'-CgA 3'	5'-CAg 3'	5'-CgC 3'	5'-TTg 3'	5'-CAT 3'	5'-CgA 3'
	81(328)	79(324)		69(292)	62(271)	57(257)	91(359)	55(252)		64(277)	92(362)	67(286)
	5'-gTC 3'	5'-TTC 3'		5'-CTT 3'	5'-CTA 3'	5'-ACA 3'	5'-ggT 3'	5'-gCC 3'		5'-gTg 3'	5'-CTg 3'	5'-CTA 3'
	84(338)	80(326)		76(313)	67(286)	63(275)		84(338)		65(280)		91(359)
	5'-CgA 3'	5'-AgC 3'		5'-TAT 3'	5'-CTT 3'	5'-CCg 3'		5'-CgT 3'		5'-gAA 3'		5'-ggT 3'
		81(330)			70(295)	67(286)				65(281)		
		5'-TCT 3'			5'-CCA 3'	5'-CTT 3'				5'-ggT 3'		
		88(350)			72(301)	77(316)				69(293)		
		5'-ggA 3'			5'-CAA 3'	5'-gCg 3'				5'-gCC 3'		
		93(364)			78(320)	91(359)						
		5'-T 3'			5'-gTg 3'	5'-ggT 3'						
					84(337)							
					5'-gCT 3'							
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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Lot No.: **9N1**   Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	95	170	170	130	90	115	135	145	255	95	80	255
PCR product	130	210	225	160	145	175	165	180				
	205			215	175	200	190	230				
					200			290				
Length of int. pos. control[1]	430	430	430	430	430	430	430	430	430	430	430	430
5'-primer(s)[2]	8(109)	11(119)	8(110)	7(107)	36(194)	36(194)	17(136)	9(113)	107(406)	-22(24)	191(660)	107(406)
	5'-ACA 3'	5'-ggg 3'	5'-CCg 3'	5'-TTg 3'	5'-CgT 3'	5'-CgC 3'	5'-ACA 3'	5'-TTT 3'	5'-CCT 3'	5'-gCA 3'	5'-gAT 3'	5'-CCT 3'
	9(114)	23(155)	10(115)	8(110)		36(194)	22(151)					
	5'-TTA 3'	5'-gCA 3'	5'-TCT 3'	5'-CCg 3'		5'-CgC 3'	5'-CAT 3'					
	33(184)	29(173)	26(163)	10(115)		57(258)	27(166)					
	5'-ggC 3'	5'-CAg 3'	5'-TgC 3'	5'-TCT 3'		5'-gAC 3'	5'-AgT 3'					
	37(197)		27(166)	14(129)			30(175)					
	5'-gCA 3'		5'-AgT 3'	5'-gAC 3'			5'-TCC 3'					
	47(226)			30(175)			37(197)					
	5'-ggA 3'			5'-TCC 3'			5'-gCT 3'					
				39(204)								
				5'-gAA 3'								
3'-primer(s)[3]	65(280)	65(280)	69(292)	69(292)	53(245)	79(323)	69(292)	44(217)	178(619)	-5(76)	205(700)	178(619)
	5'-gAT 3'	5'-gAT 3'	5'-CTC 3'	5'-CTC 3'	5'-gCT 3'	5'-TgC 3'	5'-CTC 3'	5'-CTT 3'	5'-CAT 3'	5'-CAC 3'	5'-CAT 3'	5'-CAg 3'
		69(292)			68(289)	81(328)		45(220)				178(619)
		5'-CTC 3'			5'-CTT 3'	5'-gTC 3'		5'-gAT 3'				5'-CAA 3'
					74(308)	85(340)		55(252)				
					5'-TgC 3'	5'-CTg 3'		5'-TCC 3'				
					75(310)	85(340)		71(299)				
					5'-CCC 3'	5'-CTA 3'		5'-CTT 3'				
					78(319)	85(341)		73(305)				
					5'-TCA 3'	5'-gCT 3'		5'-CCC 3'				
					79(322)	92(361)		92(362)				
					5'-gTA 3'	5'-TCA 3'		5'-CTT 3'				
					85(340)	2nd I						
					5'-CCT 3'	5'-C 3'						
					85(341)							
					5'-CCC 3'							
					90(355)							
					5'-CTC 3'							
					91(358)							
					5'-gCC 3'							
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

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101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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Lot No.: 9N1   Lot-specific information

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	145	260	170	150	170	185	90	175	180	75	140	145
PCR product	225		210	180	205	235	155	200	215	115	180	175
			245	215	240	280	180	265	245	170	260	250
			275				210			215		
										260		
Length of int. pos. control[1]	430	515	515	430	430	515	430	430	515	430	430	430
5'-primer(s)[2]	116(433) 5'-gCT 3'	107(406) 5'-CCC 3'	9(113) 5'-TTT 3'	9(113) 5'-TTT 3'	9(113) 5'-TTT 3'	9(113) 5'-TTT 3'	36(194) 5'-CgT 3'	8(110) 5'-CCC 3'	12(122) 5'-ACC 3'	12(121) 5'-gAT 3'	9(112) 5'-TgT 3'	12(122) 5'-ACC 3'
	144(517) 5'-CCT 3'							9(112) 5'-TgT 3'	17(137) 5'-CgT 3'	23(155) 5'-gCC 3'		14(127) 5'-AgC 3'
								31(179) 5'-CAg 3'	26(165) 5'-gAC 3'	29(172) 5'-ACg 3'		15(130) 5'-AAC 3'
								32(181) 5'-ACT 3'	35(192) 5'-TTA 3'	37(197) 5'-gCA 3'		17(136) 5'-ACA 3'
								37(197) 5'-gCA 3'	39(202) 5'-TCC 3'	41(210) 5'-gAA 3'		39(202) 5'-TCC 3'
								41(208) 5'-gCC 3'	41(208) 5'-gCC 3'	45(220) 5'-Agg 3'		49(232) 5'-Tgg 3'
								41(210) 5'-gAA 3'		46(223) 5'-TCT 3'		
										59(264) 5'-TgA 3'		
										73(305) 5'-gCT 3'		
3'-primer(s)[3]	178(619) 5'-CAg 3'	179(624) 5'-CTg 3'	52(241) 5'-CCT 3'	44(217) 5'-CTT 3'	48(230) 5'-TCg 3'	53(245) 5'-gCT 3'	52(241) 5'-CCT 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	42(212) 5'-CCC 3'	84(338) 5'-CgT 3'
			66(284) 5'-CCg 3'	47(227) 5'-CCT 3'	51(238) 5'-CAC 3'	60(265) 5'-gTC 3'	74(308) 5'-TgC 3'				44(217) 5'-CTg 3'	
			66(284) 5'-CCT 3'	52(241) 5'-CCT 3'	53(245) 5'-gCg 3'	62(271) 5'-CTg 3'	78(319) 5'-TCA 3'				55(251) 5'-CAA 3'	
			78(319) 5'-TCA 3'	60(266) 5'-TgC 3'	64(278) 5'-TgC 3'	73(305) 5'-CCC 3'	79(323) 5'-TgA 3'				82(331) 5'-CTg 3'	
			85(341) 5'-gCg 3'	67(287) 5'-CCg 3'	75(312) 5'-ATA 3'	88(350) 5'-ggT 3'	81(330) 5'-TCT 3'					
			88(350) 5'-ggT 3'			90(355) 5'-CTA 3'	83(335) 5'-CCg 3'					
							93(364) 5'-T 3'					
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

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For *In Vitro* Diagnostic Use
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101.311-24/04 – including *Taq* polymerase
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Lot No.: 9N1   Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	170	115	140	120	120	145	75	160	65	80	160	200
PCR product	190	160		180	170	180	115	250	95		215	260
		215		220	220	220	170		145			
				250	250	250	245		180			
							270		205			
									270			
Length of int. pos. control[1]	430	430	430	430	430	430	515	430	430	430	430	430
5'-primer(s)[2]	35(191) 5'-gTT 3'	16(133) 5'-gCC 3'	36(194) 5'-CgT 3'	14(127) 5'-AgA 3'	11(119) 5'-gTT 3'	12(122) 5'-ACA 3'	8(110) 5'-CCC 3'	14(127) 5'-AgA 3'	9(112) 5'-TgT 3'	191(660) 5'-gAT 3'	18(139) 5'-Cgg 3'	9(113) 5'-TTT 3'
		20(146) 5'-TgC 3'	36(194) 5'-CgT 3'	23(155) 5'-gCC 3'	16(135) 5'-.AC 3'	16(135) 5'-.AC 3'	12(122) 5'-ACA 3'	39(202) 5'-TCC 3'	35(191) 5'-gTT 3'		36(194) 5'-CgC 3'	
		33(184) 5'-ggA 3'	36(194) 5'-CgT 3'	25(160) 5'-TCg 3'	22(152) 5'-ACT 3'	22(152) 5'-ACg 3'	20(145) 5'-ATA 3'	40(207) 5'-Agg 3'			36(194) 5'-CgC 3'	
		34(187) 5'-AgA 3'		36(193) 5'-TCT 3'	24(159) 5'-TTg 3'	26(163) 5'-TgA 3'	37(197) 5'-gCC 3'	42(211) 5'-ACA 3'				
		37(197) 5'-gCT 3'		36(193) 5'-TCC 3'	42(211) 5'-ACA 3'	36(193) 5'-TCA 3'	41(208) 5'-gCT 3'	42(212) 5'-CgC 3'				
		51(238) 5'-Agg 3'		40(207) 5'-AgA 3'	57(258) 5'-gAC 3'	40(207) 5'-AgA 3'	42(212) 5'-CgC 3'	45(220) 5'-AgC 3'				
				41(208) 5'-gCT 3'		41(208) 5'-gCA 3'	59(264) 5'-TgA 3'	46(223) 5'-TCT 3'				
				57(258) 5'-gAC 3'		49(233) 5'-gAT 3'	73(305) 5'-gCT 3'	49(233) 5'-gAT 3'				
3'-primer(s)[3]	78(321) 5'-TgA 3'	76(313) 5'-CAT 3'	69(292) 5'-CTT 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	44(217) 5'-CTg 3'	205(700) 5'-CAC 3'	76(313) 5'-CAT 3'	60(265) 5'-gTC 3'
	84(338) 5'-CgA 3'								53(245) 5'-gCT 3'			63(275) 5'-CCg 3'
	85(340) 5'-CCg 3'								82(331) 5'-CTg 3'			64(278) 5'-TgC 3'
	85(340) 5'-CCA 3'								85(340) 5'-CCA 3'			80(326) 5'-AgC 3'
	85(341) 5'-gCC 3'								90(355) 5'-CTT 3'			82(331) 5'-CTT 3'
	85(341) 5'-gCg 3'											83(334) 5'-CAC 3'
												84(337) 5'-gCT 3'
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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Lot No.: **9N1** Lot-specific information

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec.	110	125	145	80	245	80	155	115	185	160	140
PCR product	195	170	230			125	220	165	225	190	220
	280	195				215		195	255	240	
		220						230		270	
Length of int. pos. control[1]	515	430	430	430	430	515	515	430	430	430	430
5'-primer(s)[2]	107(406)	22(152)	21(149)	72(301)	11(119)	107(406)	107(406)	33(184)	13(124)	9(113)	9(112)
	5'-CCC 3'	5'-ACT 3'	5'-gAT 3'	5'-CAg 3'	5'-ggg 3'	5'-CCT 3'	5'-CCT 3'	5'-ggT 3'	5'-ggT 3'	5'-TTT 3'	5'-TgT 3'
		26(165)	25(161)		11(119)			43(214)	22(151)	36(194)	35(191)
		5'-gAC 3'	5'-CCC 3'		5'-ggg 3'			5'-TgC 3'	5'-CAT 3'	5'-CgC 3'	5'-gTA 3'
		33(184)	49(232)					59(264)	25(161)	36(194)	
		5'-ggC 3'	5'-Tgg 3'					5'-TgA 3'	5'-CCA 3'	5'-CgC 3'	
		33(186)	49(233)					117(436)	27(166)		
		5'-.Ag 3'	5'-gAT 3'					5'-ACA 3'	5'-AAT 3'		
		41(208)							36(194)		
		5'-gCA 3'							5'-CgT 3'		
		56(254)									
		5'-TgA 3'									
3'-primer(s)[3]	129(474)	84(338)	84(338)	84(338)	77(317)	119(443)	141(508)	84(338)	84(338)	76(313)	69(292)
	5'-AAg 3'	5'-CgC 3'	5'-CgT 3'	5'-CgA 3'	5'-TgA 3'	5'-AAC 3'	5'-CAT 3'	5'-CgT 3'	5'-CgT 3'	5'-TAC 3'	5'-CTC 3'
	158(561)				81(330)	135(490)	141(509)	179(624)		83(334)	
	5'-AgT 3'				5'-TCC 3'	5'-CTA 3'	5'-ACC 3'	5'-CTg 3'		5'-CAC 3'	
	187(646)					162(572)	147(527)			85(341)	
	5'-CTC 3'					5'-ggT 3'	5'-TAT 3'			5'-gCT 3'	
						167(586)	167(586)			92(362)	
						5'-ATT 3'	5'-ATT 3'			5'-CTT 3'	
Well No.	85	86	87	88	89	90	91	92	93	94	95

[1]The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

[2]The nucleotide position matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

[3]The nucleotide position matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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"Instructions for Use" (IFU)

Lot No.: 9N1 **Lot-specific information**

CELL LINE VALIDATION SHEET
DPB1 SSP kit[2]

#	IHWC cell line[1]		DPB1		Prod. No.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
						2021127001	2021127002	2021127003	2021127004	2021127005	2021127006	2021127007	2021127008	2021127009	2021127010	2021127011	2021127012	2021127013	2021127014	202239315	202239316
1	9001	SA	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
2	9280	LK707	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
3	9011	E4181324	*02:01	*04:01		-	-	+	+	-	-	-	+	+	+	+	+	-	-	-	-
4	9275	GU373	*04:02	*17:01		-	-	-	-	-	-	-	+	+	-	+	+	-	-	-	+
5	9009	KAS011	*04:01	*14:01		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	+
6	9353	SM	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
7	9020	QBL	*02:02			-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	-
8	9025	DEU	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
9	9026	YAR	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
10	9107	LKT3	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
11	9051	PITOUT	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
12	9052	DBB	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
13	9004	JESTHOM	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
14	9071	OLGA	*03:01	*04:02		+	+	-	-	-	-	-	+	+	-	+	-	-	-	-	+
15	9075	DKB	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
16	9037	SWEIG007	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
17	9282	CTM3953540	*01:01	*02:01		+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-
18	9257	32367	*18:01	*105:01		-	+	-	-	-	-	-	+	-	-	+	-	-	-	-	+
19	9038	BM16	*02:01			-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	-
20	9059	SLE005	*03:01			+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+
21	9064	AMALA	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
22	9056	KOSE	*02:01	*13:01		+	-	+	-	-	+	+	+	+	+	+	+	-	-	-	-
23	9124	IHL	*02:01			-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	-
24	9035	JBUSH	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
25	9049	IBW9	*01:01			+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
26	9285	WT49	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
27	9191	CH1007	*03:01	*13:01		+	+	+	-	-	+	+	-	-	-	-	-	-	-	-	+
28	9320	BEL5GB	*02:01	*04:01		-	-	+	+	-	-	-	+	+	+	+	+	-	-	-	-
29	9050	MOU	*02:01			-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	-
30	9021	RSH	*01:01	*105:01		+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	+
31	9019	DUCAF	*02:02			-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	-
32	9297	HAG	*02:01	*03:01		+	+	-	-	-	-	-	+	+	+	+	+	-	-	-	+
33	9098	MT14B	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
34	9104	DHIF	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
35	9302	SSTO	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
36	9024	KT17	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
37	9065	HHKB	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
38	9099	LZL	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
39	9315	CML	*04:01	*14:01		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	+
40	9134	WHONP199	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
41	9055	H0301	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
42	9066	TAB089	*02:02			-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	-
43	9076	T7526	*107:01			+	-	+	-	-	+	+	-	-	-	-	-	-	-	-	-
44	9057	TEM	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
45	9239	SHJO	*04:02	*104:01		+	+	-	-	-	-	-	+	+	-	+	-	-	-	-	+
46	9013	SCHU	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
47	9045	TUBO	*02:01	*04:02		-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	+
48	9303	TER-ND	*02:01	*04:01		-	-	+	+	-	-	-	+	+	+	+	+	-	-	-	-

CE

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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"Instructions for Use" (IFU)

Lot No.: 9N1   **Lot-specific information**

CELL LINE VALIDATION SHEET
DPB1 SSP kit[2]

#	IHWC cell line[1]	DPB1		Prod. No.:	17 202127017	18 202127018	19 202127019	20 202127020	21 202127021	22 202127022	23 202127023	24 202127024	25 202239325	26 202127026	27 202127027	28 202127028	29 202127029	30 202127030	31 202127031	32 202127032
1	9001 SA	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*02:01	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*04:02	*17:01		+	+	-	-	-	-	-	-	-	+	+	+	+	+	-	-
5	9009 KAS011	*04:01	*14:01		+	+	+	+	+	+	-	-	-	-	-	-	-	+	-	-
6	9353 SM	*05:01			-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
7	9020 QBL	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*05:01			-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
11	9051 PITOUT	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*03:01	*04:02		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*01:01	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257 32367	*18:01	*105:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
19	9038 BM16	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:01			+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01	*13:01		+	-	-	+	-	-	-	-	-	-	-	+	-	-	+	-
23	9124 IHL	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*01:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
26	9285 WT49	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*03:01	*13:01		+	+	+	+	+	-	-	-	-	-	-	+	-	-	+	-
28	9320 BEL5GB	*02:01	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*01:01	*105:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
31	9019 DUCAF	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01	*03:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*05:01			-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
37	9065 HHKB	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*04:01	*14:01		+	+	+	+	+	+	-	-	-	-	-	-	-	+	-	-
40	9134 WHONP199	*05:01			-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
41	9055 H0301	*05:01			-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-
42	9066 TAB089	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*107:01			+	-	-	+	-	-	-	-	-	-	-	+	-	-	+	-
44	9057 TEM	*04:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*04:02	*104:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:01	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-

CE

For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

OLERUP SSP

101.311-24/04 – including *Taq* polymerase　　　　Visit www.caredx.com for
101.311-24u/04u – without *Taq* polymerase　　　　**"Instructions for Use" (IFU)**

Lot No.: 9N1　　　　　　　**Lot-specific information**

CELL LINE VALIDATION SHEET

DPB1 SSP kit[2]

	IHWC cell line[1]	DPB1		Prod. No.:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
					202127033	202127034	202127035	202127036	202127037	202127038	202127039	202127040	202127041	202127042	202127043	202127044	202127045	202127046	202127047	202127048
1	9001 SA	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*04:02	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*04:01	*14:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
6	9353 SM	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*03:01	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*01:01	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*18:01	*105:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01	*13:01		+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*01:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*03:01	*13:01		+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*01:01	*105:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*04:01	*14:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
40	9134 WHONP199	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*107:01			+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*04:02	*104:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*04:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:01	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(CE mark)

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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Lot No.: 9N1   **Lot-specific information**

CELL LINE VALIDATION SHEET
DPB1 SSP kit[2]

#	IHWC cell line[1]	DPB1		Prod. No.:	49 202127049	50 202127050	51 202239351	52 202127052	53 202127053	54 202127054	55 202127055	56 202127056	57 202127057	58 202127058	59 202127059	60 202127060	61 202127061	62 202127062	63 202127063	64 202127064
1	9001 SA	*04:02			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
2	9280 LK707	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
3	9011 E4181324	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
4	9275 GU373	*04:02	*17:01		-	-	-	-	-	-	-	-	-	+	-	+	-	+	-	-
5	9009 KAS011	*04:01	*14:01		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
6	9353 SM	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
7	9020 QBL	*02:02			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
8	9025 DEU	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026 YAR	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
10	9107 LKT3	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
11	9051 PITOUT	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
12	9052 DBB	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
13	9004 JESTHOM	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
14	9071 OLGA	*03:01	*04:02		-	-	-	-	-	-	-	-	+	-	-	-	-	+	-	-
15	9075 DKB	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
16	9037 SWEIG007	*04:02			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
17	9282 CTM3953540	*01:01	*02:01		-	+	-	-	-	-	-	-	-	-	-	+	-	+	-	-
18	9257 32367	*18:01	*105:01		-	+	-	-	-	-	-	-	-	-	-	+	-	+	-	-
19	9038 BM16	*02:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
20	9059 SLE005	*03:01			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
21	9064 AMALA	*04:02			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
22	9056 KOSE	*02:01	*13:01		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
23	9124 IHL	*02:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
24	9035 JBUSH	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
25	9049 IBW9	*01:01			-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
26	9285 WT49	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
27	9191 CH1007	*03:01	*13:01		-	-	-	-	-	-	-	-	-	+	+	-	-	+	-	-
28	9320 BEL5GB	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
29	9050 MOU	*02:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
30	9021 RSH	*01:01	*105:01		-	+	-	-	-	-	-	-	-	-	-	+	-	+	-	-
31	9019 DUCAF	*02:02			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
32	9297 HAG	*02:01	*03:01		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
33	9098 MT14B	*04:02			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
34	9104 DHIF	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
35	9302 SSTO	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
36	9024 KT17	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
37	9065 HHKB	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
38	9099 LZL	*04:02			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
39	9315 CML	*04:01	*14:01		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
40	9134 WHONP199	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
41	9055 H0301	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
42	9066 TAB089	*02:02			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
43	9076 T7526	*107:01			-	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-
44	9057 TEM	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
45	9239 SHJO	*04:02	*104:01		-	-	-	-	-	-	-	-	-	-	+	+	-	+	-	-
46	9013 SCHU	*04:02			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
47	9045 TUBO	*02:01	*04:02		-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-
48	9303 TER-ND	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-

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For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

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Lot No.: 9N1　　　　　　**Lot-specific information**

CELL LINE VALIDATION SHEET
DPB1 SSP kit[2]

#	IHWC cell line[1]	DPB1		Prod. No.:	65 202239365	66 202127066	67 202127067	68 202127068	69 202127069	70 202239370	71 202127071	72 202127072	73 202127073	74 202127074	75 202127075	76 202127076	77 202127077	78 202127078	79 202127079	80 202127080
1	9001 SA	*04:02			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
2	9280 LK707	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*04:02	*17:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
5	9009 KAS011	*04:01	*14:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
6	9353 SM	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
7	9020 QBL	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
11	9051 PITOUT	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*03:01	*04:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
15	9075 DKB	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*04:02			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
17	9282 CTM3953540	*01:01	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*18:01	*105:01		-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-
19	9038 BM16	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
21	9064 AMALA	*04:02			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
22	9056 KOSE	*02:01	*13:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*01:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*03:01	*13:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
28	9320 BEL5GB	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*01:01	*105:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
31	9019 DUCAF	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01	*03:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
33	9098 MT14B	*04:02			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
34	9104 DHIF	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
37	9065 HHKB	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*04:02			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
39	9315 CML	*04:01	*14:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
40	9134 WHONP199	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
41	9055 H0301	*05:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
42	9066 TAB089	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*107:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*04:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*04:02	*104:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
46	9013 SCHU	*04:02			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
47	9045 TUBO	*02:01	*04:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
48	9303 TER-ND	*02:01	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

OLERUP SSP®

101.311-24/04 – including *Taq* polymerase
101.311-24u/04u – without *Taq* polymerase

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Lot No.: 9N1   **Lot-specific information**

CELL LINE VALIDATION SHEET

DPB1 SSP kit[2]

#	IHWC cell line[1]	DPB1		Prod. No.:	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
				Prod. No. →	202127081	202127082	202127083	202127084	202239385	202127086	202127087	202127088	202127089	202127090	202239391	202127092	202127093	202127094	202127095
1	9001 SA	*04:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*02:01	*04:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*04:02	*17:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*04:01	*14:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*02:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*03:01	*04:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*04:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*01:01	*02:01		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257 32367	*18:01	*105:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-
19	9038 BM16	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*04:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01	*13:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
23	9124 IHL	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*01:01			-	+	-	-	-	-	-	-	-	-	-	-	-	+	-
26	9285 WT49	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*03:01	*13:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB	*02:01	*04:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*01:01	*105:01		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-
31	9019 DUCAF	*02:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01	*03:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*04:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*04:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*04:01	*14:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
43	9076 T7526	*107:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
44	9057 TEM	*04:01			-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*04:02	*104:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*04:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:01	*04:02		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*04:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-

CE

For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04

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Lot No.: **9N1**   Lot-specific information

[1]The provided cell line HLA specificities are retrieved from the http://www.ihwg.org/hla web site. The specificity of an individual cell line may thus be subject to change.

[2]The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 41 to 44, 47, 49, 51 to 54, 56, 61, 63 to 72, 74, 76 to 81, 84 to 87 and 89 to 93 were available.

The specificities of the primers in primer solutions 42, 43, 47, 49, 68 and 86 were tested by separately adding one or two 5'-primers, and one 3'-primer respectively. In primer solutions 41, 53, 54, 56, 63 to 67, 71, 81, 84, 85 and 89 to 91 it was only possible to test the 5'-primers, the 3'-primers were not possible to be tested. In primer solutions 44, 51, 52, 61, 69, 70, 72, 74, 76 to 80, 87, 92 and 93 it was only possible to test the 3'-primers, the 5'-primers were not possible to be tested. In primer solutions 1, 2, 12, 15, 16, 23, 25 to 27, 31 to 33, 36, 38, 40, 45, 49, 50, 55, 68, 75, 83 and 86 one or more 5'-primers were not possible to be tested. In primer solutions 5 to 9, 11, 16, 24, 28, 29, 31, 33, 37, 38, 42, 43, 46 to 48, 60, 73 and 94 one or more 3'-primers were not possible to be tested.

In addition, one or more primers in primer solutions 14, 29, 33, 38, 40, 45, 46, 48, 50 and 94 were tested by separately adding one or more 5'-primers or 3'-primers accordingly.

[3]The DPB1*04:02 allele is not amplified by primer mix 57 in the 9275 (GU373) and 9239 (SHJO) cell lines. For further details see the specificity table.

The DPB1*04:02 allele is not amplified by primer mix 58 in the 9275 (GU373) cell line. For further details see the specificity table.

The DPB1*04:02 allele is not amplified by primer mix 60 in the 9239 (SHJO) cell line. For further details see the specificity table.

101.311-24/04 – including *Taq* **polymerase**   Visit www.caredx.com for
101.311-24u/04u – without *Taq* **polymerase**   **"Instructions for Use" (IFU)**

Lot No.: 9N1   **Lot-specific information**

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For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: September 2025, Rev. No: 04