

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
“Instructions for Use” (IFU)

Lot No.: **88X**

Lot-specific information
Olerup SSP® DPB1

Product number:	101.311-24/04 – including <i>Taq</i> pol. 101.311-24u/04u – without <i>Taq</i> pol.
Lot number:	88X
Expiry date:	2017-August-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:	86+1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 88X.

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 (44X)

The format of the Product Insert and Worksheet have been changed.

Twenty four wells have been added to DPB1, wells **64 to 87**.

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. 44X**). The kit design is based on IMGT/HLA database 3.16.0.

As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

Well	5'-primer	3'-primer	rationale
3	Exchanged	-	5'-primer exchanged for improved HLA-specific amplification.
8	-	Added	3'-primer added for the DPB1*04:01:10 allele.
11	-	Added	3'-primer added for the DPB1*207:01 allele.
16	-	Added	3'-primer added for the DPB1*04:02:02 allele.
25	-	Added	3'-primer added for the DPB1*220:01 allele.

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27	Added	-	5'-primers added for the DPB1*219:01, 246:01, 247:01, 252:01 and 169:01 alleles.
31	Added	Added	5'-primer added for the DPB1*222:01, 3'-primer added for the DPB1*01:01:04 alleles.
32	Added	-	5'-primers added for the DPB1*223:01 and 293:01 alleles.
33	Added	Added	5'-primer added for the DPB1*218:01N, 3'-primer added for the DPB1*178:01 alleles.
37	-	Added	3'-primer added for the DPB1*278:01 allele.
38	-	Added	3'-primers added for the DPB1*185:01, 243:01 and 186:01 alleles.
40	Added	Added	5'-primer added for the DPB1*291:01, 3'-primers added for the DPB1*197:01 and 244:01 alleles.
41	Removed	Modified, added	5'-primer removed for improved allelic resolution. 3'-primer modified for increased HLA-specific amplification, 3'-primers added for the DPB1*176:01 and 177:01 alleles.
42	-	Added	3'-primers added for the DPB1*176:01 and 180:01 alleles.
44	Added	-	5'-primers added for the DPB1*220:01 and 241:01 alleles.
45	Added	-	5'-primers added for the DPB1*240:01, 253:01 and 254:01 alleles.
49	Added	-	5'-primers added for the DPB1*251:01 and 290:01 alleles.
50	Added	-	5'-primer added for the DPB1*248:01 allele.
52	Added	-	5'-primer added for the DPB1*289:01 allele.
53	-	Added	3'-primers added for the DPB1*221:01 and 242:01 allele.
55	Added	-	5'-primer added for the DPB1*218:01N allele.
56	-	Added	3'-primers added for the DPB1*170:01, 174:01 and 239:01 alleles.
63	Added	Added	Negative Control moved to well 87, primer pair added for the DPB1*216:01N and 183:01 alleles, 3'-primer added for the DPB1*280:01 allele.
64	New	New	New primer pairs for the DPB1*217:01, 226:01 and 232:01 alleles.
65	New	New	New primer pairs for the DPB1*257:01, 258:01 and 238:01 allele, new 3'-primer added for the DPB1*181:01 allele.
66	New	New	New primer pairs for the DPB1*260:01 and 276:01 alleles.
67	New	New	New primer pairs for the DPB1*261:01 and 187:01 alleles.
68	New	New	New primer pairs for the DPB1*191:01, 192:01, 200:01 and 228:01 alleles.
69	New	New	New primer pairs for the DPB1*210:01, 227:01, 228:01 and 240:01 alleles.
70	New	New	New primer pairs for the DPB1*196:01, 253:01, 262:01 and 286:01 alleles.
71	New	New	New primer pairs added for the DPB1*208:01, 250:01 and 268:01 alleles.

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72	New	New	New primer pairs added for the DPB1*267:01, 270:01 and 293:01 alleles.
73	New	New	New primer pairs added for the DPB1*230:01, 231:01, 279:01 and 280:01 alleles.
74	New	New	New primer pairs added for the DPB1*255:01, 273:01, 274:01 alleles, new 5'-primer added for the DPB1*252:01 allele.
75	New	New	New primer pair added for the DPB1*233:01 allele.
76	New	New	New primer pairs added for the DPB1*193:01, 215:01, 225:01 and 283:01 alleles.
77	New	New	New primer pairs added for the DPB1*194:01, 215:01 and 275:01 alleles.
78	New	New	New primer pairs added for the DPB1*195:01, 224:01 and 282:01 alleles.
79	New	New	New primer pairs added for the DPB1*212:01, 224:01, 275:01 and 283:01 alleles.
80	New	New	New primer pairs added for the DPB1*213:01, 225:01 and 282:01 alleles, new 5'-primer added for the DPB1*286:01 alleles.
81	New	New	New primer pairs added for the DPB1*202:01 and 281:01 alleles, 5'-primers added for the DPB1*230:01 and 250:01 alleles.
82	New	New	New primer pair added for the DPB1*135:01 allele.
83	New	New	New primer pairs added for the DPB1*206:01 and 169:01 alleles.
84	New	New	New primer pairs added for the DPB1*177:01, 180:01, 186:01 and 181:01 alleles.
85	New	New	New primer pairs added for the DPB1*171:01, 175:01 and 237:01 alleles.
86	New	New	New primer pair added for the DPB1*190:01 allele.
87	-	-	Negative Control added from well 63.

Change in revision R01 compared to R00:

1. The internal positive control band is 515 base pairs in primer mixes 8 and 31. This has been corrected in the Specificity Table and in the Primer Specification Table.

Change in revision R02 compared to R01:

1. Primer mix 44 does not amplify the *38:01 allele. This has been corrected in the Specificity and Interpretation Tables.

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Lot-specific information

Well **87** contains Negative Control primer pairs, that will amplify more than 95% 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 430 base pairs.

Length of PCR product	105	200	105	80	75	80	85
5'-primer¹	164	340	440	45	45	43	36
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-TAC ^{3'}
							36
							5'-TAT ^{3'}
3'-primer²	231	2nd I	507	59	58	57	47
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}	5'-ACA ^{3'}
							48
							5'-gCA ^{3'}
							48
							5'-gCC ^{3'}
							52
							5'-TgT ^{3'}
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

¹The 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.

²The 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-specific information

PRODUCT DESCRIPTION

DPB1 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DPB1*01:01 to DPB1*296:01 alleles.

PLATE LAYOUT

Each test consists of 87 PCR reactions in a 96 well cut PCR plate. Wells 88 to 96 are empty.

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	NC	empty
empty	empty	empty	empty	empty	empty	empty	empty

The 96 well cut PCR plate is marked with 'DPB1' in silver/gray ink.

Well No. 1 is marked with the Lot No. '88X'.

Wells 1 to 86 – DPB1 high resolution primers.

Well 87 – 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 phenotypically different DPB1 alleles, i.e. **DPB1*01:01 to DPB1*296:01**, recognized by the HLA Nomenclature Committee in April 2014^{1,2} will give rise to unique amplification patterns by the primers in the DPB1 typing kit.

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The DPB1 typing kit cannot distinguish the following silent mutations: DPB1*01:01:01-01:01:02 and 01:01:04 alleles, the DPB1*02:01:02, 02:01:04-02:01:05 and 02:01:07-02:01:12 alleles, the DPB1*03:01:01-03:01:03 alleles, the DPB1*04:01:01:01-04:01:01:02, 04:01:03-04:01:06, 04:01:08, 04:01:10, 04:01:12-04:01:15 and 04:01:17-04:01:19 alleles, DPB1*04:01:02 and 04:01:16 alleles, the DPB1*04:01:07 and 04:01:11 alleles, the DPB1*04:01:09 and 04:01:20 alleles, the DPB1*04:02:01:01-04:02:01:02 and 04:02:03 alleles, the DPB1*05:01:01-05:01:02, the DPB1*09:01:02-09:01:03 alleles, the DPB1*11:01:02-11:01:03 alleles or the DPB1*41:01:01-41:01:02 alleles.

¹DPB1 alleles listed on the IMGT/HLA web page 2014-April-14, release 3.16.0, www.ebi.ac.uk/imgt/hla.

²Alleles 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>.

RESOLUTION IN HOMO- AND HETEROZYGOTES

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

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Lot-specific information
SPECIFICITY TABLE

DPB1 SSP typing

Specificities and sizes of the PCR products of the 86+1 primer mixes used for DPB1 SSP typing³

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified DPB1 alleles ³
1	245 bp	515 bp	*01:01:01-01:01:04, 03:01:01-03:01:03, 13:01:01-13:01:02, 25:01, 26:01:01-26:01:02, 29:01, 37:01, 44:01, 50:01, 52:01, 56:01, 61:01N, 78:01, 79:01, 88:01, 90:01, 92:01, 104:01, 107:01, 110:01, 111:01, 114:01, 118:01, 122:01, 124:01, 127:01, 132:01, 133:01, 142:01, 159:01N, 160:01, 162:01, 201:01, 203:01, 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
2	220 bp	515 bp	*01:01:01-01:01:04, 03:01:01-03:01:03, 18:01, 20:01:01-20:01:02, 25:01, 26:01:01-26:01:02, 27:01, 36:01, 50:01, 52:01, 56:01, 61:01N, 78:01, 79:01, 85:01, 87:01, 89:01, 90:01, 92:01, 104:01, 111:01, 114:01, 118:01, 122:01, 124:01, 127:01, 130:01, 132:01, 142:01, 158:01, 159:01N, 162:01, 164:01, 199:01, 201:01, 203:01, 209:01, 220:01, 221:01, 222:01, 248:01, 267:01, 270:01, 271:01, 291:01, 292:01, 293:01, 294:01
3^{5,6}	140 bp	430 bp	*01:01:01-01:01:04, 04:01:01-04:01:20, 11:01:01-11:01:03, 13:01:01-13:01:02, 15:01, 23:01:01-23:01:02, 26:01:01-26:01:02, 27:01, 31:01, 33:01, 34:01, 39:01, 40:01, 52:01, 55:01, 56:01, 58:01, 62:01, 63:01, 65:01, 66:01, 67:01, 71:01, 72:01, 74:01, 85:01, 87:01, 89:01, 90:01, 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, 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, 169:01 ^w , 173:01, 174:01, 175:01, 176:01, 177:01, 178:01, 179:01, 180:01, 181:01, 192:01, 193:01, 194:01, 195:01, 199:01, 201:01, 202:01, 206:01, 207:01, 209:01, 213:01, 215:01, 216:01N, 220:01, 224:01, 225:01, 227:01, 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, 280:01, 281:01, 282:01, 283:01, 290:01, 294:01, 295:01
4	140 bp	430 bp	*01:01:01-01:01:04, 04:01:01-04:01:01:02, 04:01:03-04:01:15, 04:01:17-04:01:20, 24:01, 26:01:01-26:01:02, 27:01, 28:01, 31:01, 39:01, 40:01, 49:01, 51:01, 53:01, 56:01, 65:01, 66:01, 72:01, 76:01, 85:01, 89:01, 90:01, 92:01, 96:01, 99:01, 102:01, 118:01, 120:01N, 121:01, 122:01, 125:01, 126:01, 127:01, 128:01, 134:01, 139:01, 142:01, 149:01, 150:01, 158:01, 159:01N, 162:01, 169:01, 174:01, 175:01, 176:01, 177:01, 178:01, 180:01, 181:01, 192:01, 193:01, 194:01, 195:01, 199:01, 203:01, 212:01, 213:01, 214:01, 215:01, 216:01N, 220:01, 224:01, 225:01, 228:01, 230:01, 231:01, 232:01, 240:01, 253:01, 254:01, 255:01, 262:01, 267:01, 272:01, 275:01, 276:01, 278:01, 279:01, 280:01, 281:01, 282:01, 283:01, 291:01, 294:01, 296:01
5	235 bp	515 bp	*01:01:01-01:01:04, 08:01, 19:01, 50:01, 57:01, 65:01, 68:01, 73:01, 75:01, 84:01, 90:01, 106:01, 118:01, 122:01, 127:01, 150:01, 159:01N, 162:01, 166:01, 173:01, 188:01, 201:01, 220:01, 234:01, 236:01, 246:01, 248:01, 249:01, 267:01, 278:01, 285:01, 291:01

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6	165 bp	430 bp	*01:01:01-01:01:04, 13:01:01-13:01:02, 26:01:01-26:01:02, 65:01, 107:01, 118:01, 122:01, 127:01, 133:01, 142:01, 159:01N, 160:01, 162:01, 173:01, 203:01, 220:01, 246:01, 267:01, 269:01, 291:01
7	160 bp	430 bp	*01:01:01-01:01:04, 13:01:01-13:01:02, 26:01:01-26:01:02, 56:01, 65:01, 76:01, 90:01, 92:01, 107:01, 110:01, 118:01, 122:01, 125:01, 127:01, 133:01, 142:01, 150:01, 159:01N, 160:01, 162:01, 173:01, 203:01, 220:01, 246:01, 267:01, 269:01, 278:01, 288:01, 291:01
8	210 bp	515 bp	*02:01:02-02:02:02, 04:01:01-04:02:03, 05:01:01-05:01:02, 08:01, 16:01:01-16:01:02, 19:01, 22:01, 23:01:01-23:01:02, 24:01, 32:01, 33:01, 38:01, 39:01, 40:01, 46:01, 47:01, 48:01, 49:01, 51:01, 53:01, 60:01, 62:01, 63:01, 65:01, 68:01, 71:01, 75:01, 77:01, 80:01, 81:01, 82:01, 84:01, 94:01, 96:01, 97:01, 99:01, 100:01, 101:01, 103:01, 105:01, 106:01, 112:01, 115:01, 116:01, 120:01N, 121:01, 123:01, 126:01, 128:01, 134:01, 135:01, 138:01, 140:01, 141:01, 143:01, 144:01, 145:01, 146:01, 148:01, 149:01, 150:01, 151:01, 153:01, 154:01N, 155:01, 163:01, 165:01, 169:01, 170:01, 171:01, 172:01, 173:01, 174:01, 175:01, 176:01, 177:01, 178:01, 180:01, 181:01, 182:01, 184:01, 185:01, 186:01, 187:01, 188:01, 190:01, 191:01, 192:01, 193:01, 194:01, 195:01, 196:01, 210:01, 211:01, 212:01, 213:01, 214:01, 215:01, 216:01N, 217:01, 218:01N, 219:01, 224:01, 225:01, 227:01, 228:01, 230:01, 231:01, 232:01, 233:01, 234:01, 236:01, 237:01, 238:01, 239:01, 240:01, 252:01, 253:01, 254:01, 255:01, 256:01, 257:01, 258:01, 260:01, 261:01, 262:01, 263:01, 272:01, 273:01, 274:01, 275:01, 276:01, 277:01, 278:01, 279:01, 280:01, 281:01, 282:01, 283:01, 284:01, 286:01
9^s	165 bp	430 bp	*02:01:02-02:01:05, 02:01:06 ^w , 02:01:07-02:02, 04:02:01-04:02:03, 05:01:01-05:01:02, 06:01, 16:01:01-16:01:02, 17:01, 18:01, 19:01, 20:01:01-20:01:02, 21:01, 22:01, 23:01:01-23:01:02, 30:01, 32:01, 34:01, 36:01, 38:01, 41:01:01-41:01:02, 46:01, 47:01, 48:01, 55:01, 58:01, 59:01, 60:01, 62:01, 63:01, 64:01N, 69:01, 71:01, 77:01, 80:01, 82:01, 83:01, 86:01, 87:01, 91:01, 93:01, 94:01, 95:01, 97:01, 98:01, 100:01, 101:01, 103:01, 105:01, 106:01, 108:01, 109:01, 112:01, 113:01, 115:01, 116:01, 123:01, 129:01, 130:01, 131:01, 135:01, 136:01, 137:01, 138:01, 140:01, 141:01, 143:01, 144:01, 145:01, 146:01, 148:01, 151:01, 152:01, 153:01, 154:01N, 155:01, 161:01N, 163:01, 164:01, 165:01, 166:01, 168:01, 170:01, 171:01, 182:01, 183:01, 184:01, 185:01, 186:01, 189:01, 190:01, 191:01, 196:01, 197:01, 200:01, 208:01, 210:01, 211:01, 217:01, 218:01N, 219:01, 223:01, 226:01, 233:01, 235:01, 236:01, 237:01, 238:01, 239:01, 241:01, 244:01, 245:01, 251:01, 252:01, 256:01, 257:01, 258:01, 259:01, 260:01, 261:01, 263:01, 271:01, 273:01, 274:01 ^w , 284:01, 286:01, 292:01, 295:01
10	220 bp	515 bp	*02:01:02-02:02:02, 08:01, 16:01:01-16:01:02, 19:01, 22:01, 32:01, 33:01, 41:01:01-41:01:02, 46:01, 47:01, 48:01, 71:01, 81:01, 95:01, 101:01, 103:01, 106:01, 115:01, 123:01, 141:01, 145:01, 146:01, 148:01, 151:01, 152:01, 154:01N, 155:01, 163:01, 165:01, 166:01, 172:01, 173:01, 182:01, 186:01, 187:01, 188:01, 189:01, 191:01, 196:01, 211:01, 217:01, 218:01N, 229:01, 234:01, 235:01, 236:01, 237:01, 238:01, 239:01, 258:01, 261:01, 273:01, 277:01
11	145 bp 185 bp	515 bp	*69:01, 136:01, 179:01, 207:01 *02:01:02-02:01:12, 04:01:01-04:01:06, 04:01:08-04:01:10, 04:01:12-04:02:03, 23:01:01-23:01:02, 24:01, 32:01, 33:01, 41:01:01-41:01:02, 46:01, 47:01, 51:01, 59:01, 60:01, 66:01, 71:01, 72:01, 73:01, 75:01, 77:01, 80:01, 81:01, 82:01, 83:01, 86:01, 94:01, 99:01, 105:01, 108:01, 109:01, 113:01, 115:01, 119:01, 120:01N, 121:01,

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17	260 bp	515 bp	*03:01:01-03:01:03, 06:01, 09:01:01-09:01:03, 10:01, 11:01:01-11:01:03, 13:01:01-13:01:02, 14:01, 17:01, 20:01:01-20:01:02, 21:01, 25:01, 26:01:01-26:01:02, 27:01, 29:01, 30:01, 35:01:01-35:01:02, 36:01, 37:01, 44:01, 45:01, 52:01, 54:01, 55:01, 56:01, 58:01, 61:01N, 64:01N, 67:01, 69:01, 70:01, 76:01, 78:01, 79:01, 85:01, 87:01, 88:01, 91:01, 92:01, 93:01, 98:01, 104:01, 107:01, 110:01, 111:01, 114:01, 119:01, 124:01, 125:01, 130:01, 131:01, 132:01, 133:01, 136:01, 137:01, 142:01, 156:01, 157:01, 167:01, 168:01, 197:01, 202:01, 203:01, 204:01, 205:01, 206:01, 207:01, 208:01, 209:01, 221:01, 222:01, 241:01, 243:01, 244:01, 245:01, 250:01, 251:01, 264:01, 265:01, 266:01, 268:01, 269:01, 270:01, 287:01, 288:01, 289:01, 293:01, 295:01
18	180 bp	430 bp	*03:01:01-03:01:03, 06:01, 09:01:01-09:01:03, 14:01, 17:01, 20:01:01-20:01:02, 29:01, 35:01:01-35:01:02, 44:01, 61:01N, 64:01N, 69:01, 70:01, 76:01, 78:01, 86:01, 88:01, 91:01, 92:01, 98:01, 104:01,

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19	200 bp	430 bp	*03:01:01-03:01:03, 06:01, 11:01:01-11:01:03, 14:01, 20:01:01-20:01:02, 25:01, 29:01, 44:01, 45:01, 52:01, 56:01, 61:01N, 64:01N, 67:01, 69:01, 70:01, 74:01, 76:01, 78:01, 87:01, 91:01, 92:01, 104:01, 111:01, 114:01, 119:01, 124:01, 130:01, 136:01, 142:01, 161:01N, 164:01, 167:01, 197:01, 202:01, 203:01, 204:01, 205:01, 207:01, 208:01, 221:01, 222:01, 242:01, 243:01, 250:01, 264:01, 266:01, 268:01, 270:01, 293:01
20	235 bp	515 bp	*03:01:01-03:01:03, 09:01:01-09:01:03, 10:01, 13:01:01-13:01:02, 14:01, 25:01, 26:01:01-26:01:02, 29:01, 35:01:01-35:01:02, 37:01, 44:01, 45:01, 52:01, 54:01, 56:01, 61:01N, 67:01, 70:01, 76:01, 78:01, 79:01, 88:01, 92:01, 104:01, 107:01, 110:01, 111:01, 114:01, 119:01, 124:01, 125:01, 132:01, 133:01, 142:01, 157:01, 160:01, 167:01, 197:01, 203:01, 209:01, 221:01, 222:01, 242:01, 265:01, 266:01, 269:01, 270:01, 288:01, 289:01, 293:01, 295:01
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22	185 bp	430 bp	*04:01:01:01-04:01:06, 04:01:08-04:01:10, 04:01:12-04:01:20, 24:01, 33:01, 39:01, 49:01, 51:01, 66:01, 72:01, 81:01, 96:01, 99:01, 117:01, 120:01N, 121:01, 126:01, 128:01, 134:01, 149:01, 158:01, 169:01, 172:01, 174:01, 175:01, 176:01, 177:01, 178:01, 179:01, 180:01, 181:01, 192:01, 193:01, 194:01, 195:01, 199:01, 212:01, 213:01, 214:01, 215:01, 216:01N, 224:01, 225:01, 228:01, 229:01, 231:01, 232:01, 240:01, 253:01, 254:01, 255:01, 262:01, 272:01, 275:01, 276:01, 278:01, 281:01, 282:01, 283:01, 294:01
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25⁷	200 bp	515 bp	*05:01:01-05:01:02, 21:01, 22:01, 36:01, 38:01, 44:01, 58:01, 63:01, 97:01, 114:01, 135:01, 140:01, 170:01, 171:01, 220:01, 223:01, 226:01, 265:01
26⁴	265 bp 75 bp	515 bp	*70:01 *06:01, 09:01:01-09:01:03, 17:01, 29:01, 44:01, 46:01, 64:01N, 86:01, 88:01, 101:01, 131:01, 152:01, 156:01, 157:01, 161:01N, 166:01, 168:01, 182:01, 208:01, 234:01, 235:01, 241:01, 245:01, 249:01, 251:01, 266:01, 287:01, 288:01, 289:01
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	260 bp		*119:01
29 ⁴	105 bp	515 bp	*141:01 *09:01:01-09:01:03, 10:01, 17:01, 30:01, 54:01, 55:01, 58:01, 86:01, 113:01, 131:01, 137:01, 156:01, 157:01, 167:01, 168:01, 241:01, 245:01, 265:01, 266:01, 287:01, 288:01, 289:01
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30	185 bp	430 bp	*09:01:01-09:01:03, 14:01, 17:01, 35:01:01, 76:01, 86:01, 91:01, 98:01, 119:01, 131:01, 156:01, 157:01, 168:01, 197:01, 241:01, 242:01, 243:01, 245:01, 266:01, 287:01, 288:01, 289:01
31 ^{4,6}	120 bp	515 bp	*01:01:01-01:01:04, 05:01:01-05:01:02, 08:01, 10:01, 11:01:01-11:01:03, 13:01:01-13:01:02, 16:01:01-16:01:02, 19:01, 21:01, 22:01, 25:01, 26:01:01-26:01:02, 27:01, 30:01, 31:01, 36:01, 37:01, 38:01, 45:01, 52:01, 54:01, 55:01, 56:01, 58:01, 63:01, 65:01, 67:01, 68:01, 79:01, 84:01, 85:01, 87:01, 89:01, 90:01, 93:01, 97:01, 102:01, 103:01, 106:01, 107:01, 110:01, 114:01, 118:01, 122:01, 125:01, 127:01, 133:01, 135:01, 136:01, 137:01, 140:01, 142:01, 147:01, 150:01, 159:01N, 162:01, 165:01, 167:01, 170:01, 171:01, 173:01, 184:01, 201:01, 202:01, 204:01, 206:01, 207:01, 209:01, 220:01, 223:01, 226:01, 244:01, 246:01, 247:01, 250:01, 264:01, 265:01, 267:01, 268:01, 269:01, 277:01, 284:01, 285:01, 291:01, 295:01
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34	210 bp	430 bp	*14:01, 45:01, 67:01, 76:01, 91:01, 119:01, 167:01, 197:01, 242:01, 243:01, 264:01, 266:01
35	195 bp	430 bp	*15:01, 74:01, 198:01, 290:01
36	260 bp	515 bp	*15:01, 18:01, 28:01, 34:01, 40:01, 53:01, 62:01, 139:01, 198:01, 290:01, 292:01, 296:01
37	160 bp	430 bp	*13:01:01-13:01:02, 107:01, 110:01, 133:01, 160:01, 173:01, 246:01, 269:01, 278:01
38 ⁴	185 bp		*15:01, 28:01, 40:01, 53:01, 74:01, 139:01, 198:01, 290:01, 296:01
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39	210 bp	515 bp	*28:01, 31:01, 34:01, 57:01, 59:01, 72:01, 73:01, 95:01, 102:01, 108:01, 139:01, 147:01, 152:01, 166:01, 179:01, 189:01, 235:01, 259:01, 285:01, 296:01
40 ⁵	180 bp	430 bp	*30:01, 54:01
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42 ⁷	140 bp 185 bp 210 bp 245 bp 285 bp	430 bp	*97:01 *32:01 *176:01, 180:01 *128:01 *82:01
43 ⁵	190 bp	430 bp	*34:01, 62:01
44 ^{4,7}	120 bp 185 bp 210 bp 240 bp 270 bp	430 bp	*99:01, 118:01, 220:01 *111:01, 118:01, 120:01N, *220:01 *241:01 *64:01N
45 ^{4,7}	120 bp 160 bp 190 bp 240 bp	430 bp	*46:01, 80:01, 86:01, 108:01, 164:01, 214:01, 235:01, 254:01 *253:01 *39:01, 49:01, 96:01, 117:01, 158:01, 172:01 *115:01, 240:01
46 ⁴	70 bp 210 bp	430 bp	*41:01:01-41:01:02, 60:01, 69:01, 83:01, 136:01, 204:01, 205:01, 229:01 *41:01:01-41:01:02, 60:01, 83:01, 96:01, 147:01, 179:01 229:01
47 ⁵	165 bp 215 bp	430 bp	*44:01, 114:01, 265:01 *140:01
48 ⁴	115 bp 210 bp 280 bp	430 bp	*56:01, 66:01, 76:01, 92:01, 110:01, 125:01, 156:01, 207:01, 288:01, 294:01 *61:01N *85:01
49 ^{4,7}	95 bp 135 bp 210 bp	430 bp	*149:01 *198:01, 290:01 *143:01, 251:01
50 ⁷	160 bp 210 bp	430 bp	*144:01, 146:01 *01:01:01-01:01:02, 01:01:04, 18:01, 89:01, 90:01, 118:01, 122:01, 127:01, 158:01, 159:01N, 162:01, 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
51	170 bp	430 bp	*145:01
52	130 bp 215 bp	430 bp	*151:01 *165:01, 289:01
53 ⁴	90 bp 155 bp 200 bp	430 bp	*157:01 *221:01 *153:01, 163:01, 242:01
54 ⁴	125 bp 185 bp 210 bp	430 bp	*161:01N *160:01 *159:01N
55	135 bp 180 bp	430 bp	*155:01 *218:01N
56	150 bp 180 bp 230 bp	430 bp	*174:01 *84:01, 148:01 *170:01, 239:01, 260:01

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57⁸	255 bp	430 bp	*04:02:01:01-04:02:03, 08:01 [?] , 09:01:02 [?] -09:01:03 [?] , 11:01:02 [?] -11:01:03 [?] , 20:01:02 [?] , 22:01 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 29:01 [?] , 31:01 [?] , 32:01 [?] , 34:01 [?] , 35:01:01 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 40:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01, 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 86:01 [?] , 87:01 [?] , 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 122:01 [?] , 125:01 [?] , 126:01, 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 136:01 [?] , 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 [?] , 152:01 [?] , 153:01 [?] , 154:01N [?] , 155:01 [?] , 156:01 [?] , 157:01 [?] , 158:01 [?] , 159:01N [?] , 160:01 [?] , 161:01N [?] , 163:01 [?] , 164:01 [?] , 165:01 [?] , 166:01 [?] , 167:01 [?] , 169:01 [?] , 170:01 [?] , 171:01 [?] , 172:01 [?] , 173:01 [?] , 174:01 [?] , 175:01 [?] , 176:01 [?] , 177:01 [?] , 178:01 [?] , 179:01 [?] , 180:01 [?] , 181:01 [?] , 182:01 [?] , 183:01 [?] , 184:01 [?] , 185:01 [?] , 186:01 [?] , 187:01 [?] , 188:01 [?] , 189:01 [?] , 190:01 [?] , 191:01 [?] , 192:01 [?] , 193:01 [?] , 194:01 [?] , 195:01 [?] , 196:01 [?] , 197:01 [?] , 198:01 [?] , 199:01 [?] , 200:01 [?] , 201:01 [?] , 202:01 [?] , 203:01 [?] , 204:01 [?] , 205:01 [?] , 206:01 [?] , 207:01 [?] , 208:01 [?] , 209:01 [?] , 210:01 [?] , 211:01 [?] , 212:01 [?] , 213:01 [?] , 214:01 [?] , 215:01 [?] , 216:01N [?] , 217:01 [?] , 218:01N [?] , 219:01 [?] , 220:01 [?] , 221:01 [?] , 222:01 [?] , 223:01 [?] , 224:01 [?] , 225:01 [?] , 226:01 [?] , 227:01 [?] , 228:01 [?] , 229:01 [?] , 230:01 [?] , 231:01 [?] , 232:01 [?] , 233:01 [?] , 234:01 [?] , 235:01 [?] , 236:01 [?] , 237:01 [?] , 238:01 [?] , 239:01 [?] , 240:01 [?] , 241:01 [?] , 242:01 [?] , 243:01 [?] , 244:01 [?] , 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 [?] , 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 [?]
58^{4,9}	95 bp	430 bp	*08:01 [?] , 09:01:02 [?] -09:01:03 [?] , 11:01:02 [?] -11:01:03 [?] , 13:01:02 [?] , 20:01:01 [?] -20:01:02 [?] , 22:01 [?] , 23:01:01 [?] -23:01:02 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 28:01 [?] , 29:01 [?] , 30:01 [?] , 31:01 [?] , 32:01 [?] , 33:01 [?] , 34:01 [?] , 35:01:01 [?] -35:01:02 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 40:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 45:01 [?] , 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01 [?] , 86:01 [?] , 87:01 [?] , 88:01 [?] , 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 107:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01 [?] , 122:01 [?] , 123:01 [?] , 124:01 [?] , 125:01 [?] , 126:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 132:01 [?] , 133:01 [?] , 134:01 [?] , 135:01 [?] , 136:01 [?] , 137:01 [?] , 138:01 [?] , 139:01 [?] , 140:01 [?] , 141:01 [?] , 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] , 148:01 [?] , 149:01 [?] , 150:01 [?] , 151:01 [?] , 152:01 [?] , 153:01 [?] , 154:01N [?] , 155:01 [?] , 156:01 [?] , 157:01 [?] , 158:01 [?] , 159:01N [?] , 160:01 [?] , 161:01N [?] , 162:01 [?] , 163:01 [?] , 164:01 [?] , 165:01 [?] , 166:01 [?] , 167:01 [?] , 168:01 [?] , 169:01 [?] , 170:01 [?] , 171:01 [?] , 172:01 [?] , 173:01 [?] , 174:01 [?] , 175:01 [?] , 176:01 [?]

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101.311-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **88X**

Lot-specific information

			177:01 [?] , 178:01 [?] , 179:01 [?] , 180:01 [?] , 181:01 [?] , 182:01 [?] , 183:01 [?] , 184:01 [?] , 185:01 [?] , 186:01 [?] , 187:01 [?] , 188:01 [?] , 189:01 [?] , 190:01 [?] , 191:01 [?] , 192:01 [?] , 193:01 [?] , 194:01 [?] , 195:01 [?] , 196:01 [?] , 197:01 [?] , 198:01 [?] , 199:01 [?] , 200:01 [?] , 201:01 [?] , 202:01 [?] , 203:01 [?] , 204:01 [?] , 205:01 [?] , 206:01 [?] , 207:01 [?] , 208:01 [?] , 209:01 [?] , 210:01 [?] , 211:01 [?] , 212:01 [?] , 213:01 [?] , 214:01 [?] , 215:01 [?] , 216:01N [?] , 217:01 [?] , 218:01N [?] , 219:01 [?] , 220:01 [?] , 221:01 [?] , 222:01 [?] , 223:01 [?] , 224:01 [?] , 225:01 [?] , 226:01 [?] , 227:01 [?] , 228:01 [?] , 229:01 [?] , 230:01 [?] , 231:01 [?] , 232:01 [?] , 233:01 [?] , 234:01 [?] , 235:01 [?] , 236:01 [?] , 237:01 [?] , 238:01 [?] , 239:01 [?] , 240:01 [?] , 241:01 [?] , 242:01 [?] , 243:01 [?] , 244:01 [?] , 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 [?] , 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 [?] , 296:01 [?]
59 ^{4,10}	65 bp	430 bp	*05:01:01-05:01:02, 08:01 [?] , 09:01:02 [?] -09:01:03 [?] , 11:01:02 [?] -11:01:03 [?] , 13:01:02 [?] , 19:01, 20:01:01 [?] -20:01:02 [?] , 22:01 [?] , 23:01:01 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 28:01 [?] , 29:01 [?] , 30:01 [?] , 31:01 [?] , 32:01 [?] , 33:01 [?] , 34:01 [?] , 35:01:01 [?] -35:01:02 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 40:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 45:01 [?] , 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01 [?] , 86:01 [?] , 87:01 [?] , 88:01 [?] , 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 104:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01 [?] , 122:01 [?] , 123:01 [?] , 124:01 [?] , 125:01 [?] , 126:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 132:01 [?] , 133:01 [?] , 134:01 [?] , 136:01 [?] , 137:01 [?] , 139:01 [?] , 140:01 [?] , 141:01 [?] , 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] , 148:01 [?] , 149:01 [?] , 150:01 [?] , 151:01 [?] , 152:01 [?] , 153:01 [?] , 154:01N [?] , 155:01 [?] , 156:01 [?] , 157:01 [?] , 158:01 [?] , 159:01N [?] , 160:01 [?] , 161:01N [?] , 163:01 [?] , 164:01 [?] , 165:01 [?] , 166:01 [?] , 167:01 [?] , 168:01 [?] , 169:01 [?] , 170:01 [?] , 171:01 [?] , 172:01 [?] , 173:01 [?] , 174:01 [?] , 175:01 [?] , 176:01 [?] , 177:01 [?] , 178:01 [?] , 179:01 [?] , 180:01 [?] , 181:01 [?] , 182:01 [?] , 183:01 [?] , 184:01 [?] , 185:01 [?] , 186:01 [?] , 187:01 [?] , 188:01 [?] , 189:01 [?] , 190:01 [?] , 191:01 [?] , 192:01 [?] , 193:01 [?] , 194:01 [?] , 195:01 [?] , 196:01 [?] , 197:01 [?] , 198:01 [?] , 199:01 [?] , 200:01 [?] , 201:01 [?] , 202:01 [?] , 203:01 [?] , 204:01 [?] , 205:01 [?] , 206:01 [?] , 207:01 [?] , 208:01 [?] , 209:01 [?] , 210:01 [?] , 211:01 [?] , 212:01 [?] , 213:01 [?] , 214:01 [?] , 215:01 [?] , 216:01N [?] , 217:01 [?] , 218:01N [?] , 219:01 [?] , 220:01 [?] , 221:01 [?] , 222:01 [?] , 223:01 [?] , 224:01 [?] , 225:01 [?] , 226:01 [?] , 227:01 [?] , 228:01 [?] , 229:01 [?] , 230:01 [?] , 231:01 [?] , 232:01 [?] , 233:01 [?] , 234:01 [?] , 235:01 [?] , 236:01 [?] , 237:01 [?] , 238:01 [?] , 239:01 [?] , 240:01 [?] , 241:01 [?] , 242:01 [?] , 243:01 [?] , 244:01 [?] , 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 [?] , 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 [?]

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Lot No.: **88X**

Lot-specific information

60¹¹	255 bp	430 bp	*02:01:02-02:02, 04:01:01:01-04:01:20, 08:01 [?] , 09:01:02 [?] -09:01:03 [?] , 11:01:02 [?] -11:01:03 [?] , 13:01:02 [?] , 17:01, 22:01 [?] , 23:01:01, 23:01:02 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 28:01, 29:01 [?] , 30:01, 31:01 [?] , 32:01 [?] , 33:01, 34:01 [?] , 35:01:01 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 39:01, 40:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01, 56:01 [?] , 57:01 [?] , 58:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 86:01 [?] , 87:01 [?] , 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 105:01, 106:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01, 122:01 [?] , 123:01, 124:01, 125:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 133:01, 134:01, 136:01 [?] , 137:01, 139:01 [?] , 140:01 [?] , 141:01, 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] , 148:01 [?] , 149:01 [?] , 150:01 [?] , 151:01 [?] , 152:01 [?] , 153:01 [?] , 154:01N [?] , 155:01 [?] , 156:01 [?] , 157:01 [?] , 158:01 [?] , 159:01N [?] , 160:01 [?] , 161:01N [?] , 162:01, 163:01 [?] , 164:01 [?] , 165:01 [?] , 166:01 [?] , 167:01 [?] , 168:01, 169:01 [?] , 170:01 [?] , 171:01 [?] , 172:01 [?] , 173:01 [?] , 174:01 [?] , 175:01 [?] , 176:01 [?] , 177:01 [?] , 178:01 [?] , 179:01 [?] , 180:01 [?] , 181:01 [?] , 182:01 [?] , 183:01 [?] , 184:01 [?] , 185:01 [?] , 186:01 [?] , 187:01 [?] , 188:01 [?] , 189:01 [?] , 190:01 [?] , 191:01 [?] , 192:01 [?] , 193:01 [?] , 194:01 [?] , 195:01 [?] , 196:01 [?] , 197:01 [?] , 198:01 [?] , 199:01 [?] , 200:01 [?] , 201:01 [?] , 202:01 [?] , 203:01 [?] , 204:01 [?] , 205:01 [?] , 206:01 [?] , 207:01 [?] , 208:01 [?] , 209:01 [?] , 210:01 [?] , 211:01 [?] , 212:01 [?] , 213:01 [?] , 214:01 [?] , 215:01 [?] , 216:01N [?] , 217:01 [?] , 218:01N [?] , 219:01 [?] , 220:01 [?] , 221:01 [?] , 222:01 [?] , 223:01 [?] , 224:01 [?] , 225:01 [?] , 226:01 [?] , 227:01 [?] , 228:01 [?] , 229:01 [?] , 230:01 [?] , 231:01 [?] , 232:01 [?] , 233:01 [?] , 234:01 [?] , 235:01 [?] , 236:01 [?] , 237:01 [?] , 238:01 [?] , 239:01 [?] , 240:01 [?] , 241:01 [?] , 242:01 [?] , 243:01 [?] , 244:01 [?] , 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 [?] , 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 [?]
61	145 bp	430 bp	*168:01
62^{7,12}	260 bp	515 bp	*01:01:01-01:01:04, 03:01:01-03:01:03, 05:01:01-05:01:02, 06:01, 08:01 [?] , 09:01:01-09:01:03, 10:01, 11:01:01-11:01:03, 13:01:01-13:01:02, 14:01, 15:01 ^w , 16:01:01-16:01:02, 18:01, 19:01, 20:01:01-20:01:02, 21:01, 22:01 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 26:01:02, 27:01, 29:01 [?] , 31:01 [?] , 32:01 [?] , 34:01 [?] , 35:01:01-35:01:02, 36:01 [?] , 37:01 [?] , 38:01 [?] , 40:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 45:01, 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01, 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01, 86:01 [?] , 87:01 [?] , 88:01, 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 104:01, 107:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 122:01 [?] , 125:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 131:01, 132:01, 135:01, 136:01 [?] , 139:01 [?] , 140:01 [?] , 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] , 148:01 [?] , 149:01 [?] , 150:01 [?] , 151:01 [?] , 152:01 [?] , 153:01 [?] , 154:01N [?] , 155:01 [?] , 156:01 [?]

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63	210 bp 245 bp 270 bp	430 bp	*183:01 *216:01N *280:01
64	155 bp 205 bp	430 bp	*217:01, 256:01 *226:01, 232:01
65	165 bp 240 bp	430 bp	*181:01, 257:01, 258:01 *238:01
66	175 bp 235 bp	430 bp	*276:01 *239:01, 260:01
67	170 bp	430 bp	*187:01, 261:01
68	170 bp 200 bp 265 bp	430 bp	*228:01 *191:01, 192:01 *109:01, 117:01, 158:01, 164:01, 199:01, 200:01, 271:01, 294:01
69	180 bp 250 bp	430 bp	*227:01, 228:01 *210:01, 211:01, 240:01, 272:01
70	155 bp 205 bp 260 bp	430 bp	*253:01, 286:01 *262:01, 263:01 *196:01
71	140 bp 260 bp	430 bp	*208:01, 250:01 *268:01
72	175 bp 255 bp	430 bp	*270:01 *267:01, 293:01
73	180 bp	430 bp	*230:01, 231:01, 279:01, 280:01
74	160 bp 215 bp	430 bp	*255:01, 274:01 *252:01, 273:01
75	140 bp	430 bp	*03:01:01-03:01:03, 04:02:01:01-04:02:01:02, 04:02:02 ^w , 04:02:03, 05:01:01-05:01:02, 14:01, 18:01, 20:01:01-20:01:02, 23:01:01- 23:01:02, 25:01, 34:01 ^w , 35:01:01-35:01:02, 36:01, 38:01, 45:01, 50:01, 52:01, 57:01, 59:01, 60:01, 61:01N, 62:01, 63:01, 67:01, 68:01, 70:01, 73:01, 75:01, 77:01, 78:01, 79:01, 80:01, 82:01, 83:01, 84:01, 87:01, 91:01, 97:01, 98:01, 100:01, 104:01, 105:01, 108:01, 111:01, 112:01, 114:01, 116:01, 119:01, 124:01, 129:01, 130:01, 132:01, 135:01, 138:01, 140:01, 143:01, 144:01, 153:01, 164:01, 170:01 ^w , 171:01, 183:01, 184:01, 185:01, 190:01, 197:01, 201:01, 209:01,

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76⁴	120 bp 170 bp 220 bp 250 bp	430 bp	*215:01 *283:01 *193:01 *225:01
77⁴	120 bp 180 bp 220 bp	430 bp	*215:01 *275:01 *194:01
78	145 bp 225 bp 255 bp	430 bp	*282:01 *195:01 *224:01
79⁷	175 bp 245 bp	515 bp	*275:01, 283:01 *212:01, 224:01
80	155 bp 250 bp	430 bp	*213:01, 282:01, 286:01 *225:01
81⁴	95 bp 145 bp 180 bp 205 bp	430 bp	*276:01 *250:01 *202:01, 230:01 *281:01
82^{4,13}	80 bp	430 bp	*01:01:01-01:01:04, 02:01:02-02:02, 03:01:01-03:01:03, 04:01:01:01-04:02:03, 06:01, 08:01 [?] , 09:01:01, 09:01:02 [?] -09:01:03 [?] , 10:01, 11:01:01, 11:01:02 [?] -11:01:03 [?] , 13:01:01, 13:01:02 [?] , 14:01, 15:01, 16:01:01, 16:01:02 [?] , 17:01, 18:01, 20:01:01 [?] -20:01:02 [?] , 21:01, 22:01 [?] , 23:01:01 [?] -23:01:02 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 26:01:02, 27:01, 28:01 [?] , 29:01 [?] , 30:01 [?] , 31:01 [?] , 32:01 [?] , 33:01 [?] , 34:01 [?] , 35:01:01 [?] -35:01:02 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 39:01, 40:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 45:01 [?] , 46:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01 [?] , 86:01 [?] , 87:01 [?] , 88:01 [?] , 89:01 [?] , 90:01 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 105:01, 106:01, 107:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01 [?] , 122:01 [?] , 123:01 [?] , 124:01 [?] , 125:01 [?] , 126:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 131:01, 132:01 [?] , 133:01 [?] , 134:01 [?] , 135:01, 136:01 [?] , 137:01 [?] , 138:01, 139:01 [?] , 140:01 [?] , 141:01 [?] , 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] , 148:01 [?] , 149:01 [?] , 150:01 [?] , 151:01 [?] , 152:01 [?] , 153:01 [?] , 154:01N [?] , 155:01 [?] , 156:01 [?] , 157:01 [?] , 158:01 [?] , 159:01N [?] , 160:01 [?] , 161:01N [?] , 162:01, 163:01 [?] , 164:01 [?] , 165:01 [?] , 166:01 [?] , 167:01 [?] , 168:01 [?] , 169:01 [?] , 170:01 [?] , 171:01 [?] , 172:01 [?] , 173:01 [?] , 174:01 [?] , 175:01 [?] , 176:01 [?] , 177:01 [?] , 178:01 [?] , 179:01 [?] , 180:01 [?] , 181:01 [?] , 182:01 [?] , 183:01 [?] , 184:01 [?] , 185:01 [?] , 186:01 [?] , 187:01 [?] , 188:01 [?] , 189:01 [?] , 190:01 [?] , 191:01 [?] , 192:01 [?] , 193:01 [?] , 194:01 [?] , 195:01 [?] , 196:01 [?] , 197:01 [?] , 198:01 [?] , 199:01 [?] , 200:01 [?] , 201:01 [?] , 202:01 [?] , 203:01 [?] , 204:01 [?] , 205:01 [?] , 206:01 [?] , 207:01 [?] , 208:01 [?] , 209:01 [?] , 210:01 [?] , 211:01 [?] , 212:01 [?] , 213:01 [?] , 214:01 [?] , 215:01 [?] , 216:01N [?] , 217:01 [?] , 218:01N [?] , 219:01 [?] , 220:01 [?] , 221:01 [?] , 222:01 [?] , 223:01 [?] , 224:01 [?] , 225:01 [?] , 226:01 [?] , 227:01 [?] , 228:01 [?] , 229:01 [?] , 230:01 [?] , 231:01 [?] , 232:01 [?] , 233:01 [?] , 234:01 [?] , 235:01 [?] , 236:01 [?] , 237:01 [?] , 238:01 [?] , 239:01 [?] , 240:01 [?] , 241:01 [?] , 242:01 [?] ,

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83	160 bp	430 bp	*04:01:01:01-04:01:20, 11:01:01-11:01:03, 15:01, 24:01, 27:01, 28:01, 31:01, 33:01, 39:01, 40:01, 49:01, 51:01, 53:01, 66:01, 72:01, 74:01, 81:01, 85:01, 89:01, 96:01, 99:01, 102:01, 117:01, 120:01N, 121:01, 126:01, 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, 193:01, 194:01, 195:01, 198:01, 199:01, 202:01, 204:01, 205:01, 206:01, 207:01, 212:01, 213:01, 214:01, 215:01, 224:01, 225:01, 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, 280:01, 281:01, 282:01, 283:01, 287:01, 290:01, 294:01, 296:01
	215 bp		*169:01
84	165 bp	430 bp	*181:01
	205 bp		*180:01
	260 bp		*177:01, 186:01
85	190 bp	430 bp	*175:01
	260 bp		*171:01
	290 bp		*08:01 [?] , 34:01 [?] , 38:01 [?] , 48:01 [?] , 49:01 [?] , 53:01 [?] , 57:01 [?] , 60:01 [?] , 62:01 [?] , 63:01 [?] , 71:01 [?] , 72:01 [?] , 73:01 [?] , 75:01 [?] , 102:01 [?] , 237:01
86	180 bp	430 bp	*04:01:01:01 ^w -04:01:08 ^w , 04:01:10 ^w -04:01:19 ^w , 23:01:01 ^w -23:01:02 ^w , 31:01 ^w , 33:01 ^w , 34:01 ^w , 39:01 ^w , 40:01 ^w , 62:01 ^w , 63:01 ^w , 65:01 ^w , 71:01 ^w , 72:01 ^w , 95:01 ^w , 96:01 ^w , 99:01 ^w , 102:01 ^w , 103:01 ^w , 112:01 ^w , 120:01N ^w , 121:01 ^w , 126:01 ^w , 128:01 ^w , 134:01 ^w , 138:01 ^w , 147:01 ^w , 149:01 ^w , 150:01 ^w , 169:01 ^w , 173:01 ^w , 174:01 ^w , 176:01 ^w , 177:01 ^w , 178:01 ^w , 179:01 ^w , 180:01 ^w , 181:01 ^w , 190:01, 192:01 ^w , 193:01 ^w , 194:01 ^w , 195:01 ^w , 212:01 ^w , 213:01 ^w , 216:01N ^w , 224:01 ^w , 225:01 ^w , 227:01 ^w , 228:01 ^w , 230:01 ^w , 231:01 ^w , 240:01 ^w , 253:01 ^w , 255:01 ^w , 262:01 ^w , 272:01 ^w , 275:01 ^w , 276:01 ^w , 278:01 ^w , 279:01 ^w , 280:01 ^w , 281:01 ^w , 282:01 ^w , 283:01 ^w
87¹⁴			Negative Control

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

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

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

²The 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.

³For 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 and 62 may amplify other DPB1 alleles. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

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

⁵Primer mixes 3, 9, 27, 40, 43 and 47 may give rise to a lower yield of HLA-specific PCR product than the other DPB1 primer mixes.

⁶Primer mixes 3, 16, 31 and 41 have a tendency to giving rise to primer oligomer formation.

⁷Primer mixes 23, 25, 32, 41, 42, 44, 45, 49, 50, 62 and 79 may have tendencies of unspecific amplifications.

⁸The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 57 matching the DPB1*04:02:01-04:02:01:03, 59:01, 126:01 and 138:01 sequence motif in the 3rd exon may amplify other DPB1 alleles.

⁹The 1st exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 58 matching the DPB1*107:01 sequence motif in the 1st exon may amplify other DPB1 alleles.

¹⁰The 4th exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 59 matching the DPB1*05:01:01-05:01:02, 19:01 and 104:01 sequence motif in the 4th exon may amplify other DPB1 alleles.

¹¹The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 60 matching the DPB1*02:01:02-02:02, 04:01:01-04:01:20, 17:01, 23:01:01, 28:01, 30:01, 33:01, 39:01, 55:01, 105:01, 106:01, 121:01, 123:01, 124:01, 133:01, 134:01, 137:01, 141:01, 162:01 and 168:01 sequence motif in the 3rd exon may amplify other DPB1 alleles.

¹²The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 62 matching the DPB1*01:01:01-01:01:04, 03:01:01-03:01:03, 05:01:01-05:01:02, 06:01, 09:01:01-09:01:03, 10:01, 11:01:01-11:01:03, 13:01:01-13:01:02, 14:01, 15:01^w, 16:01:01-16:01:02, 18:01, 19:01, 20:01:01-20:01:02, 21:01, 26:01:02, 27:01, 35:01:01-35:01:02, 45:01, 50:01, 85:01, 88:01, 104:01, 107:01, 131:01, 132:01, 135:01 and 296:01 sequence motif in the 3rd exon may amplify other DPB1 alleles.

¹³The 4th exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 82 matching the DPB1*01:01:01-01:01:04, 02:01:02-02:02, 03:01:01-03:01:03, 04:01:01:01-04:02:03, 06:01, 09:01:01, 10:01, 11:01:01, 13:01:01, 14:01, 15:01, 16:01:01, 17:01, 18:01, 21:01, 26:01:02, 27:01, 39:01, 105:01, 106:01, 107:01, 131:01, 135:01, 138:01, 162:01 and 296:01 sequence motif in the 4th exon may amplify other DPB1 alleles.

¹⁴Primer mix 87 contains a negative control, which will amplify more than 95% of 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 430 base pairs.

^w, might be weakly amplified.

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

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **88X**

Lot-specific information

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	8(112) 5'-TgT 3'	8(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'	34(190) 5'-AgC 3'	9(113) 5'-TTT 3'	35(191) 5'-gTT 3'	55(252) 5'-gAT 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'			
3'-primer(s) ³	76(315) 5'-CAT 3'	68(292) 5'-CTT 3'	55(251) 5'-CAg 3'	68(292) 5'-CTT 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	64(280) 5'-gAT 3'	75(313) 5'-TAT 3'	68(292) 5'-CTC 3'	69(293) 5'-gCC 3'	68(292) 5'-CTC 3'
				68(292) 5'-CTT 3'				64(280) 5'-TAT 3'	75(313) 5'-CAT 3'		83(337) 5'-gTT 3'	
								65(281) 5'-ggT 3'			84(338) 5'-CgC 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'	27(169) 5'-gAg 3'	11(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'	11(121) 5'-gAT 3'	9(113) 5'-TTT 3'
		11(119) 5'-gTT 3'	34(190) 5'-AgC 3'	27(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'	34(190) 5'-AgC 3'	
		34(190) 5'-AgC 3'		56(254) 5'-TgA 3'								
3'-primer(s) ³	55(252) 5'-gCC 3'	55(252) 5'-gCC 3'	84(338) 5'-CgC 3'	68(292) 5'-CTT 3'	84(338) 5'-CgT 3'	57(258) 5'-TAg 3'	64(280) 5'-gAg 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	84(338) 5'-CgC 3'	68(292) 5'-CTT 3'	59(265) 5'-gTg 3'
				68(292) 5'-CTT 3'							68(292) 5'-CTT 3'	84(338) 5'-CgT 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.311-24/04 – including *Taq* pol., IFU-01
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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	140	210	195	260
PCR product	265	205	215	260	220		215	200	195			
			230					260				
Length of int. pos. control ¹	515	515	430	430	515	430	515	430	430	430	430	515
5'-primer(s) ²	8(112) 5'-Tgg 3'	14(130) 5'-AAg 3'	10(116) 5'-CCg 3'	11(119) 5'-gTT 3'	8(112) 5'-TgC 3'	8(112) 5'-TgC 3'	26(164) 5'-ggT 3'	9(113) 5'-TTC 3'	14(130) 5'-AAg 3'	8(112) 5'-TgC 3'	32(184) 5'-ggC 3'	11(119) 5'-ggg 3'
	27(169) 5'-gAg 3'	57(258) 5'-gAC 3'	11(119) 5'-ggg 3'	11(119) 5'-gTT 3'	106(406) 5'-CCT 3'		57(258) 5'-gAg 3'	13(127) 5'-AgC 3'	21(151) 5'-CAT 3'		32(184) 5'-ggC 3'	11(119) 5'-ggg 3'
	34(190) 5'-AgC 3'	59(265) 5'-ggC 3'	15(133) 5'-gCC 3'					31(181) 5'-ACT 3'	36(194) 5'-CgC 3'			
			17(139) 5'-Cgg 3'					32(184) 5'-ggC 3'	36(194) 5'-CgC 3'			
			57(258) 5'-gAC 3'					32(184) 5'-ggC 3'				
								73(305) 5'-gCT 3'				
3'-primer(s) ³	84(338) 5'-CgT 3'	68(292) 5'-CTC 3'	75(313) 5'-CAT 3'	64(280) 5'-gAT 3'	68(292) 5'-CTC 3'	57(258) 5'-TAG 3'	84(338) 5'-CgT 3'	84(338) 5'-CgT 3'	68(292) 5'-CTC 3'	64(280) 5'-gAg 3'	84(338) 5'-CgA 3'	84(338) 5'-CgA 3'
			75(313) 5'-TAT 3'	83(337) 5'-gTT 3'	128(470) 5'-ATT 3'		84(338) 5'-CgT 3'		85(341) 5'-gCC 3'			
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	160	95	210	180	75	140	190	120	120	70	165	115
PCR product	185	170		230	225	185		185	160	210	215	210
		200			250	210		210	190			280
					280	245		240	240			
						285		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) 5'-CgC 3'	34(190) 5'-AgC 3'	9(113) 5'-TTT 3'	8(112) 5'-TgC 3'	1 st I 5'-CAT 3'	9(113) 5'-TTT 3'	34(190) 5'-AgC 3'	7(108) 5'-TAA 3'	16(136) 5'-ACA 3'	9(113) 5'-TTT 3'	34(190) 5'-AgC 3'	11(119) 5'-gTT 3'
	36(194) 5'-CgC 3'	36(194) 5'-CgT 3'						9(115) 5'-TCT 3'	17(137) 5'-CgT 3'	56(254) 5'-TgA 3'		11(119) 5'-gTT 3'
		38(202) 5'-TCT 3'						16(136) 5'-ACC 3'	35(191) 5'-gTA 3'			
								18(140) 5'-gTg 3'	44(220) 5'-Agg 3'			
								27(169) 5'-gAg 3'	56(254) 5'-TgT 3'			
								32(182) 5'-CCC 3'	57(258) 5'-gAC 3'			
3'-primer(s) ³	75(313) 5'-TAT 3'	55(251) 5'-CAg 3'	64(280) 5'-gAg 3'	55(252) 5'-gCC 3'	12(122) 5'-gCA 3'	42(214) 5'-CCA 3'	84(338) 5'-CgA 3'	55(251) 5'-CAg 3'	84(338) 5'-CgC 3'	63(277) 5'-gTg 3'	76(315) 5'-CAT 3'	35(191) 5'-CgA 3'
	84(338) 5'-CgA 3'	79(324) 5'-TTC 3'		68(292) 5'-CTT 3'	61(271) 5'-CTA 3'	57(257) 5'-ACA 3'		84(338) 5'-CgT 3'		64(280) 5'-gAA 3'	92(362) 5'-CTg 3'	66(286) 5'-CTA 3'
		80(326) 5'-AgC 3'		75(313) 5'-TAT 3'	66(286) 5'-CTT 3'	63(275) 5'-CCg 3'				65(281) 5'-ggT 3'		91(359) 5'-ggT 3'
		88(350) 5'-ggA 3'			69(295) 5'-CCA 3'	66(286) 5'-CTT 3'				69(293) 5'-gCC 3'		
					71(301) 5'-CAA 3'	76(316) 5'-gCg 3'						
					78(320) 5'-gTg 3'	91(359) 5'-ggT 3'						
					83(337) 5'-gCT 3'							
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	95	160	170	130	90	125	135	150	255	95	65	255
PCR product	135	210		215	155	185	180	180				
	210				200	210		230				
Length of int. pos. control ¹	430	430	430	430	430	430	430	430	430	430	430	430
5'-primer(s) ²	7(109) 5'-ACA 3'	11(119) 5'-ggg 3'	25(163) 5'-TgC 3'	7(107) 5'-TTg 3'	36(194) 5'-CgT 3'	36(194) 5'-CgC 3'	21(151) 5'-CAT 3'	9(113) 5'-TTT 3'	106(406) 5'-CCT 3'	-22(24) 5'-gCA 3'	196(675) 5'-AAG 3'	106(406) 5'-CCT 3'
	9(114) 5'-TTA 3'	23(155) 5'-gCA 3'		14(129) 5'-gAC 3'		36(194) 5'-CgC 3'	37(197) 5'-gCT 3'					
	32(184) 5'-ggC 3'	29(173) 5'-CAg 3'		39(204) 5'-gAA 3'		57(258) 5'-gAC 3'						
	46(226) 5'-ggA 3'											
3'-primer(s) ³	64(280) 5'-gAT 3'	64(280) 5'-gAT 3'	68(292) 5'-CTC 3'	68(292) 5'-CTC 3'	53(245) 5'-gCT 3'	84(340) 5'-CTg 3'	68(292) 5'-CTC 3'	44(220) 5'-gAT 3'	177(619) 5'-CAT 3'	-4(76) 5'-CAC 3'	204(700) 5'-CAT 3'	177(619) 5'-CAg 3'
		68(292) 5'-CTC 3'			74(310) 5'-CCC 3'	84(340) 5'-CTA 3'		55(252) 5'-TCC 3'				
					85(341) 5'-CCC 3'	91(361) 5'-TCA 3'		71(299) 5'-CTT 3'				
					89(355) 5'-CTC 3'			73(305) 5'-CCC 3'				
					90(358) 5'-gCC 3'							
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	145	260	210	155	165	175	170	170	180	155	140	175
PCR product			245	205	240	235		200	250	205	260	255
			270					265		260		
Length of int. pos. control ¹	430	515	430	430	430	430	430	430	430	430	430	430
5'-primer(s) ²	143(517) 5'-CCT 3'	106(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(112) 5'-TgT 3'	12(122) 5'-ACC 3'	11(121) 5'-gAT 3'	8(112) 5'-TgT 3'	12(122) 5'-ACC 3'
								31(179) 5'-CAg 3'	17(137) 5'-CgT 3'	28(172) 5'-ACg 3'		13(127) 5'-AgC 3'
								31(181) 5'-ACT 3'	35(192) 5'-TTA 3'	44(220) 5'-Agg 3'		38(202) 5'-TCC 3'
								40(208) 5'-gCC 3'	40(208) 5'-gCC 3'	45(223) 5'-TCT 3'		
3'-primer(s) ³	177(619) 5'-CAg 3'	179(624) 5'-CTg 3'	66(284) 5'-CCg 3'	47(227) 5'-CCT 3'	48(230) 5'-TCg 3'	53(245) 5'-gCT 3'	77(317) 5'-TgA 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'
			77(319) 5'-TCA 3'	60(266) 5'-TgC 3'	50(238) 5'-CAC 3'	73(305) 5'-CCC 3'	83(335) 5'-CCg 3'				43(217) 5'-CTg 3'	
			85(341) 5'-gCg 3'	67(287) 5'-CCg 3'	53(245) 5'-gCg 3'						81(331) 5'-CTg 3'	
					75(312) 5'-ATA 3'							
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

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101.311-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	180	160	140	120	120	145	175	155	95	80	160	165
PCR product		215		170	180	225	245	250	145		215	205
				220	220	255			180			260
				250					205			
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'	15(133) 5'-gCC 3'	36(194) 5'-CgT 3'	13(127) 5'-AgA 3'	24(159) 5'-TTg 3'	12(122) 5'-ACA 3'	12(122) 5'-ACA 3'	13(127) 5'-AgA 3'	8(112) 5'-TgT 3'	191(660) 5'-gAT 3'	17(139) 5'-Cgg 3'	9(113) 5'-TTT 3'
		20(146) 5'-TgC 3'		24(160) 5'-TCg 3'	37(197) 5'-gCC 3'	22(152) 5'-ACg 3'	19(145) 5'-ATA 3'	44(220) 5'-AgC 3'	35(191) 5'-gTT 3'		36(194) 5'-CgC 3'	
		33(187) 5'-AgA 3'		40(208) 5'-gCT 3'	57(258) 5'-gAC 3'	49(233) 5'-gAT 3'	37(197) 5'-gCC 3'	45(223) 5'-TCT 3'			36(194) 5'-CgC 3'	
		37(197) 5'-gCT 3'		57(258) 5'-gAC 3'			40(208) 5'-gCT 3'	49(233) 5'-gAT 3'				
3'-primer(s) ³	78(321) 5'-TgA 3'	75(313) 5'-CAT 3'	68(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'	43(217) 5'-CTg 3'	204(700) 5'-CAC 3'	75(313) 5'-CAT 3'	63(275) 5'-CCg 3'
	84(340) 5'-CCg 3'								53(245) 5'-gCT 3'			80(326) 5'-AgC 3'
	84(340) 5'-CCA 3'								84(340) 5'-CCA 3'			83(337) 5'-gCT 3'
	85(341) 5'-gCg 3'								89(355) 5'-CTT 3'			
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86
Length of spec.	190	180
PCR product	260	
	290	
Length of int. pos. control ¹	430	430
5'-primer(s) ²	9(113) 5'-TTT 3'	9(113) 5'-TTT 3'
3'-primer(s) ³	50(238) 5'-CAC 3'	55(251) 5'-CAG 3'
	59(264) 5'-TTg 3'	
	82(334) 5'-CAC 3'	
	92(362) 5'-CTT 3'	
Well No.	85	86

¹The 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.

²The 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.



101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **88X**

Lot-specific information

³The 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* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 88X

Lot-specific information

CELL LINE VALIDATION SHEET																					
DPB1 SSP kit ²																					
					Well ³																
					Prod. No.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
						201442801	201442802	201547303	201442804	201442805	201442806	201442807	201547308	201442809	201442810	201547311	201442812	201442813	201442814	201442815	201547316
IHWC cell line ¹			DPB1																		
1	9001	SA	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
2	9280	LK707	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
3	9011	E4181324	*02:01	*04:01		-	-	+	+	-	-	-	+	-	+	+	+	-	-	-	-
4	9275	GU373	*04:02	*17:01		-	-	-	-	-	-	-	+	+	-	+	+	-	-	-	+
5	9009	KAS011	*04:01	*14:01		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	+
6	9353	SM	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
7	9020	QBL	*02:02			-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	-
8	9025	DEU	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
9	9026	YAR	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
10	9107	LKT3	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
11	9051	PITOUT	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
12	9052	DBB	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
13	9004	JESTHOM	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
14	9071	OLGA	*03:01	*04:02		+	+	-	-	-	-	-	+	+	-	+	-	-	-	-	+
15	9075	DKB	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
16	9037	SWEIG007	*04:02			-	-	+	+	-	-	-	+	+	-	+	-	-	-	-	+
17	9282	CTM3953540	*01:01	*02:01		+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-
18	9257	32367	*04:02	*18:01		-	+	-	-	-	-	-	+	+	-	+	-	-	-	-	+
19	9038	BM16	*02:01			-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	-
20	9059	SLE005	*03:01			+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+
21	9064	AMALA	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
22	9056	KOSE	*02:01	*13:01		+	-	+	-	-	+	+	+	+	+	+	+	-	-	-	-
23	9124	IHL	*02:01			-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	-
24	9035	JBUSH	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
25	9049	IBW9	*01:01			+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
26	9285	WT49	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
27	9191	CH1007	*03:01	*13:01		+	+	+	-	-	+	+	-	-	-	-	-	-	-	-	+
28	9320	BEL5GB	*02:01	*04:01		-	-	+	+	-	-	-	+	+	+	+	+	-	-	-	-
29	9050	MOU	*02:01			-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	-
30	9021	RSH	*01:01	*105:01		+	+	+	+	+	+	+	+	+	-	+	-	-	-	-	+
31	9019	DUCAF	*02:02			-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	-
32	9297	HAG	*02:01	*03:01		+	+	-	-	-	-	-	+	+	+	+	+	-	-	-	-
33	9098	MT14B	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
34	9104	DHIF	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
35	9302	SSTO	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
36	9024	KT17	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
37	9065	HHKB	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
38	9099	LZL	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
39	9315	CML	*04:01	*14:01		-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	+
40	9134	WHONP199	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
41	9055	H0301	*05:01			-	-	-	-	-	-	-	+	+	-	-	-	+	+	-	-
42	9066	TAB089	*02:02			-	-	-	-	-	-	-	+	+	+	-	-	+	+	+	-
43	9076	T7526	*13:01			+	-	+	-	-	+	+	-	-	-	-	-	-	-	-	-
44	9057	TEM	*04:01			-	-	+	+	-	-	-	+	-	-	+	-	-	-	-	-
45	9239	SHJO	*03:01	*04:02		+	+	-	-	-	-	-	+	+	-	+	-	-	-	-	+
46	9013	SCHU	*04:02			-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	+
47	9045	TUBO	*02:01	*04:02		-	-	-	-	-	-	-	+	+	+	+	+	-	-	-	+
48	9303	TER-ND	*02:01	*04:01		-	-	+	+	-	-	-	+	+	+	+	+	-	-	-	-

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 88X

Lot-specific information

CELL LINE VALIDATION SHEET																						
DPB1 SSP kit ²																						
					Prod. No.:	Well ³																
						17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
						201442817	201442818	201442819	201442820	201442821	201442822	201442823	201442824	201547325	201442826	201547327	201547328	201442829	201442830	201547331	201547332	
	IHCW cell line ¹		DPB1																			
1	9001	SA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
3	9011	E4181324	*02:01	*04:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
4	9275	GU373	*04:02	*17:01	+	+	-	-	-	-	-	-	-	-	+	+	+	+	+	-	-	
5	9009	KAS011	*04:01	*14:01	+	+	+	+	+	+	-	-	-	-	-	-	-	-	+	-	-	
6	9353	SM	*05:01		-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-	
7	9020	QBL	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025	DEU	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*05:01		-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-	
11	9051	PITOUT	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*03:01	*04:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540	*01:01	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	
18	9257	32367	*04:02	*18:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005	*03:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064	AMALA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056	KOSE	*02:01	*13:01	+	-	-	+	-	-	-	-	-	-	-	-	+	-	-	+	-	
23	9124	IHL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035	JBUSH	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
25	9049	IBW9	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	
26	9285	WT49	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007	*03:01	*13:01	+	+	+	+	+	-	-	-	-	-	-	-	+	-	-	+	-	
28	9320	BEL5GB	*02:01	*04:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH	*01:01	*105:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	
31	9019	DUCAF	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297	HAG	*02:01	*03:01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098	MT14B	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
35	9302	SSTO	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17	*05:01		-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-	
37	9065	HHKB	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
38	9099	LZL	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	9315	CML	*04:01	*14:01	+	+	+	+	+	+	-	-	-	-	-	-	-	-	+	-	-	
40	9134	WHONP199	*05:01		-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-	
41	9055	H0301	*05:01		-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	+	-	
42	9066	TAB089	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076	T7526	*13:01		+	-	-	+	-	-	-	-	-	-	-	-	+	-	-	+	-	
44	9057	TEM	*04:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
45	9239	SHJO	*03:01	*04:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013	SCHU	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045	TUBO	*02:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	9303	TER-ND	*02:01	*04:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **88X**

Lot-specific information

CELL LINE VALIDATION SHEET																				
DPB1 SSP kit ²																				
					Well ³															
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
					201547333	201442834	201442835	201442836	201547337	201547338	201442839	201547340	201547341	201547342	201442843	201547344	201547345	201442846	201442847	201442848
Prod. No.:																				
IHCW cell line ¹			DPB1																	
1	9001	SA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*04:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*04:01	*14:01	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*01:01	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*04:02	*18:01	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01	*13:01	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*03:01	*13:01	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*01:01	*105:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*04:01	*14:01	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*13:01		+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

CELL LINE VALIDATION SHEET																													
DPB1 SSP kit ²																													
					Well ³																								
						49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64								
					Prod. No.:	201547349	201547350	201442851	201547352	201547353	201442854	201547355	201547356	201442857	201442858	201442859	201442860	201442861	201547362	201547363	201442864								
	IHCW cell line ¹		DPB1																										
1	9001	SA	*04:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-
4	9275	GU373	*04:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	+	-	-	-	-	-	-	-	-
5	9009	KAS011	*04:01	*14:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	+	-	-	-	-	-	-	-
6	9353	SM	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-
7	9020	QBL	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEJ	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*03:01	*04:02	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
15	9075	DKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*04:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*01:01	*02:01	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
18	9257	32367	*04:02	*18:01	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*04:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01	*13:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*01:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
26	9285	WT49	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*03:01	*13:01	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	+	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*01:01	*105:01	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
33	9098	MT14B	*04:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*04:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*04:01	*14:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-
41	9055	H0301	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:02		-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*13:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
44	9057	TEM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	-	+	-	-	-	-	-	-	-
46	9013	SCHU	*04:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:01	*04:02	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-

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Lot-specific information

CELL LINE VALIDATION SHEET																						
DPB1 SSP kit ²																						
					Well ³																	
						65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
				Prod. No.:		201547365	201442866	201442867	201442868	201442869	201442870	201547371	201442872	201442873	201547374	201442875	201442876	201442877	201442878	201442879	201547380	
	IHCW cell line ¹		DPB1																			
1	9001	SA	*04:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
2	9280	LK707	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011	E4181324	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275	GU373	*04:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
5	9009	KAS011	*04:01	*14:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
6	9353	SM	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
7	9020	QBL	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025	DEJ	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
11	9051	PITOUT	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
15	9075	DKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*04:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
17	9282	CTM3953540	*01:01	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	9257	32367	*04:02	*18:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005	*03:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
21	9064	AMALA	*04:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
22	9056	KOSE	*02:01	*13:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124	IHL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035	JBUSH	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049	IBW9	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007	*03:01	*13:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
28	9320	BEL5GB	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH	*01:01	*105:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
31	9019	DUCAF	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297	HAG	*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
33	9098	MT14B	*04:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
34	9104	DHIF	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302	SSTO	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
37	9065	HHKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099	LZL	*04:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
39	9315	CML	*04:01	*14:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
40	9134	WHONP199	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
41	9055	H0301	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
42	9066	TAB089	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076	T7526	*13:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057	TEM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239	SHJO	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
46	9013	SCHU	*04:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
47	9045	TUBO	*02:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
48	9303	TER-ND	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **88X**

Lot-specific information

CELL LINE VALIDATION SHEET												
DPB1 SSP kit ²												
					Prod. No.:	Well ³						
						81	82	83	84	85	86	
						201547381	201442882	201547383	201547384	201547385	201547386	
	IHWC cell line ¹		DPB1									
1	9001	SA	*04:02			-	+	-	-	-	-	
2	9280	LK707	*04:01			-	+	+	-	-	W	
3	9011	E4181324	*02:01		*04:01	-	+	+	-	-	W	
4	9275	GU373	*04:02		*17:01	-	+	-	-	-	-	
5	9009	KAS011	*04:01		*14:01	-	+	+	-	-	W	
6	9353	SM	*05:01			-	-	-	-	-	-	
7	9020	QBL	*02:02			-	+	-	-	-	-	
8	9025	DEU	*04:01			-	+	+	-	-	W	
9	9026	YAR	*04:01			-	+	+	-	-	W	
10	9107	LKT3	*05:01			-	-	-	-	-	-	
11	9051	PITOUT	*04:01			-	+	-	-	-	W	
12	9052	DBB	*04:01			-	+	+	-	-	W	
13	9004	JESTHOM	*04:01			-	+	+	-	-	W	
14	9071	OLGA	*03:01		*04:02	-	+	-	-	-	-	
15	9075	DKB	*04:01			-	+	+	-	-	W	
16	9037	SWEIG007	*04:02			-	+	-	-	-	-	
17	9282	CTM3953540	*01:01		*02:01	-	+	-	-	-	-	
18	9257	32367	*04:02		*18:01	-	+	-	-	-	-	
19	9038	BM16	*02:01			-	+	-	-	-	-	
20	9059	SLE005	*03:01			-	+	-	-	-	-	
21	9064	AMALA	*04:02			-	+	-	-	-	-	
22	9056	KOSE	*02:01		*13:01	-	+	-	-	-	-	
23	9124	IHL	*02:01			-	+	-	-	-	-	
24	9035	JBUSH	*04:01			-	+	+	-	-	W	
25	9049	IBW9	*01:01			-	+	-	-	-	-	
26	9285	WT49	*04:01			-	+	+	-	-	W	
27	9191	CH1007	*03:01		*13:01	-	+	-	-	-	-	
28	9320	BEL5GB	*02:01		*04:01	-	+	+	-	-	W	
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			-	+	+	-	-	W	
35	9302	SSTO	*04:01			-	+	+	-	-	W	
36	9024	KT17	*05:01			-	-	-	-	-	-	
37	9065	H-HKB	*04:01			-	+	+	-	-	W	
38	9099	LZL	*04:02			-	+	-	-	-	-	
39	9315	CML	*04:01		*14:01	-	+	+	-	-	W	
40	9134	WHONP199	*05:01			-	-	-	-	-	-	
41	9055	H0301	*05:01			-	-	-	-	-	-	
42	9066	TAB089	*02:02			-	+	-	-	-	-	
43	9076	T7526	*13:01			-	+	-	-	-	-	
44	9057	TEM	*04:01			-	+	+	-	-	W	
45	9239	SHJO	*03:01		*04:02	-	+	-	-	-	-	
46	9013	SCHU	*04:02			-	+	-	-	-	-	
47	9045	TUBO	*02:01		*04:02	-	+	-	-	-	-	
48	9303	TER-ND	*02:01		*04:01	-	+	+	-	-	W	

¹The 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.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 88X

Lot-specific information

²The 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 56, 61, 63 to 74, 76 to 81, and 84 to 85 were available.

The specificities of the primers in primer solutions 43, 47, 49 and 68 were tested by separately adding one 5'-primer, respectively one 3'-primer. In primer solutions 41, 42, 53, 54, 56, 63 to 67, 71, 73, 81, 84 and 85 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 44, 51, 52, 55, 61, 69, 70, 72, 74 and 76 to 80 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 15, 16, 23, 25 to 27, 31 to 33, 38, 45, 49, 68 and 83 one or two 5'-primers were not possible to test. In primer solutions 8, 11, 16, 24, 28, 29, 31, 33, 38 and 46 to 48 one or three 3'-primers were not possible to test.

Additional primers in primer solutions 14, 38, 40, 46, 48, 50 were tested by separately adding 5'-primers or 3'-primers.

³The DPB1*04:02 allele is not amplified by primer mix 57 in the 9275 (GU373), 9257 (32367), 9021 (RSH) 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), 9191 (CH1007) and 9302 (SSTO) cell lines. For further details see the specificity table.

The DPB1*04:02 allele is not amplified by primer mix 60 in the 9021 (RSH) and 9239 (SHJO) cell lines. For further details see the specificity table.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **88X**

Lot-specific information

ADDRESSES:

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