Olerup SSP® DPB1

Product number:	**101.311-24/04 – including *Taq* pol.** **101.311-24u/04u – without *Taq* 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**

CHANGES COMPARED TO THE PREVIOUS DPB1 LOT (44X):

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.
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 fort 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.
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.

THE NUMBER OF WELLS is increased from 63 to 87 wells.

ALLELE COVERAGE:
DPB1*01:01 to DPB1*296:01, i.e. all the currently recognized DPB1 alleles, give rise to unique amplification patterns; www.ebi.ac.uk/imgt/hla, 2014-April-14[1], release 3.16.0.

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.

[1]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.

RESOLUTION IN DPB1 HOMO- AND HETEROZYGOTES:
The DPB1*01:01,01:01, DPB1*01:01,89:01 and DPB1*01:01,90:01 give rise to identical amplification patterns.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:
In primer mix 3, the 5'-primer has been exchanged for improved HLA-specific amplification.