

Olerup SSP® DQB1 high resolution for frequent alleles

Product number: 101.221-12 – including *Taq* polymerase
 101.221-12u – without *Taq* polymerase
Lot number: 17Y
Expiry date: 2018-January-01
Number of tests: 12 tests
Number of wells per test: 95+ 1

CHANGES COMPARED TO THE PREVIOUS DQB1 HIGH RESOLUTION LOT (74X):

Well	5'-primer	3'-primer	rationale
3	-	Added	3'-primer added for the DQB1*05:02:11 allele.
5	Added	-	5'-primers added for the DQB1*05:06:02 and DQB1*03:96 alleles.
8	-	Added	3'-primer added for the DQB1*02:02:14 allele.
12	-	Added	3'-primer added for the DQB1*03:119 allele.
13	Added	-	5'-primer added for the DQB1*03:162 allele.
14	-	Added	3'-primer added for the DQB1*05:56 allele.
20	Modified	-	5'-primer modified for improved HLA-specific amplification.
23	Added	-	5'-primer added for the DQB1*05:01:16 allele.
27	-	Added	3'-primers added for the DQB1*06:01:13 and DQB1*06:02:13 alleles.
28	-	Added	3'-primer added for the DQB1*06:02:11 allele.
29	-	Added	3'-primer added for the DQB1*06:03:13 allele.
30	Added	-	5'-primers added for the DQB1*04:18 and DQB1*04:20 alleles.
31	-	Added	3'-primer added for the DQB1*06:03:15 allele.
34	Added	-	5'-primers added for the DQB1*05:75 and DQB1*06:09:04 alleles.
36	-	Added	3'-primer added for the DQB1*03:90N allele.
37	Added	-	5'-primer added for the DQB1*06:63 allele.
38	-	Added	3'-primer added for the DQB1*03:98 allele.
39	-	Added	3'-primer added for the DQB1*03:165 allele.
40	Added	-	5'-primer added for the DQB1*05:45 allele.
41	Added	-	5'-primer added for the DQB1*06:127 allele.
42	Added	-	3'-primer added for the DQB1*04:18 allele.
44	-	Added	3'-primers added for the DQB1*03:94, DQB1*03:164, DQB1*06:02:16 and 06:02:19 alleles.
47	-	Added	3'-primer added for the DQB1*04:02:05, DQB1*04:02:07, DQB1*06:19:02 and DQB1*03:38 alleles.
49	-	Added	3'-primer added for the DQB1*02:41, DQB1*05:45 and DQB1*05:87Q alleles.
50	Added	-	5'-primers added for the DQB1*02:14:02, DQB1*03:130, DQB1*03:139 and DQB1*03:162 alleles.
51	Added, modified	Added	5'-primer added for the DQB1*03:158 allele, 3'-primer added for the DQB1*06:117 allele, 5'-primer modified for improved HLA-specific amplification.
52	Added	-	5'-primer added for the DQB1*06:126 allele.
53	Added	Added	Primer pair added for the DQB1*02:07:02 allele, 3'-primer added for the DQB1*06:153 allele.
54	-	Added	3'-primers added for the DQB1*03:115 and DQB1*06:110 alleles.
55	Exchanged	-	5'-primer exchanged and strength of control band has been optimized for increased yield.

56	-	Added	3'-primer added for the DQB1*03:114 allele.
58	Added	Added	5'-primer added for the DQB1*05:52 allele, 3'-primer added for the DQB1*03:119 allele.
59	-	Added	3'-primer added for the DQB1*03:114 allele.
60	-	Added	3'-primers added for the DQB1*05:49 and DQB1*05:69 alleles.
61	-	Added	3'-primers added for the DQB1*05:69 and DQB1*05:73 alleles.
62	Added	-	5'-primer added for the DQB1*06:158N allele.
65	Added	Added	Primer pair added from well 71.
66	Added	-	5'-primer added for the DQB1*03:116 and DQB1*05:57 alleles.
71	Moved, added	Moved	Primer pair moved to well 71 for decreased tendency of primer oligomer formation, 5'-primers added for the DQB1*03:118N and DQB1*03:139 alleles.
72	Added	-	5'-primers added for the DQB1*03:99Q and DQB1*03:118N alleles.
73	Added	-	5'-primer added for the DQB1*02:53Q allele.
74	-	Added	3'-primer added for the DQB1*04:25N allele.
75	Added	Added	5'-primer added for the DQB1*05:75 allele, 3'-primer added for the DQB1*03:102 allele.
77	-	Added	3'-primer added for the DQB1*06:155 allele.
79	Added	Added	Primer pair added for the DQB1*06:116 allele.
80	-	Added	3'-primer added for the DQB1*06:163 allele.
81	Added	Added	5'-primers added for the DQB1*03:95N and DQB1*03:158 alleles, 3'-primer added for the DQB1*06:163 allele.
82	-	Added	3'-primer added for the DQB1*06:107 allele.
83	-	Added	3'-primer added for the DQB1*06:107 allele.
84	-	Added	3'-primer added for the DQB1*06:106 allele.
85	Added	Added	5'-primer added for the DQB1*06:112N allele, primer pair added for the DQB1*06:127 allele.
86	Added	-	5'-primer added for the DQB1*06:112N allele.
88	Added	-	5'-primers added for the DQB1*06:125 and DQB1*06:144N alleles.
89	Added	-	5'-primer added for the DQB1*06:125 allele.
90	-	Added	3'-primer added for the DQB1*03:117 allele.
91	-	Added	3'-primer added for the DQB1*06:51:02 allele.
92	-	Added	3'-primer added from well 95 for the DQB1*02:22 allele
93	Added	-	5'-primers added for the DQB1*02:41 and DQB1*03:91Q alleles.
94	Added	Added	5'-primer added for the DQB1*03:03:12 allele, 3'-primer added for the DQB1*03:02:14 allele.
95	Added	Added	Primer pair added for the DQB1*03:105, DQB1*03:106 and DQB1*03:109 alleles, 3'-primer moved to well 92.

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

All the currently recognized DQB1 alleles give rise to unique amplification patterns; www.ebi.ac.uk/imgt/hla, 2015-January-19, release 3.19.0.

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>.

The following DQB1 alleles can be distinguished by the different sizes of the specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
DQB1*02:15, 02:30	67	DQB1*05:17, 05:47	54
DQB1*02:16, 02:20N	64	DQB1*06:31, 06:145	35
DQB1*02:23, 02:28	68	DQB1*06:35, 06:45	35
DQB1*02:29, 02:31	69	DQB1*06:48, 06:97	62
DQB1*03:31, 03:87	35	DQB1*06:70, 06:76	80
DQB1*03:36, 03:51	51	DQB1*06:73, 06:77N	82
DQB1*03:59, 03:71	43	DQB1*06:74, 06:78	83
DQB1*04:03:01, 04:12	42	DQB1*06:75N, 06:80	84
DQB1*04:05, 04:15	30	DQB1*06:102N, 06:104	90
DQB1*05:13, 05:24	59		

The DQB1 typing kit cannot distinguish the following silent mutations: the DQB1*02:01:01-02:01:19 alleles, the DQB1*02:02:01-02:02:02 alleles, the DQB1*02:14:01-02:14:02 alleles, the DQB1*03:01:01:01-03:01:02, 03:01:05-03:01:07, 03:01:09-03:01:12, 03:01:14, 03:01:16-03:01:24 and 03:01:26-03:01:28 alleles, the DQB1*03:01:03, 03:01:13, 03:01:15 and 03:01:25 alleles, the DQB1*03:02:01-03:02:17 alleles, the DQB1*03:03:02:01-03:03:05 and 03:03:07-03:03:13 alleles, the DQB1*03:05:01-03:05:04 alleles, the DQB1*03:17:01-03:17:02 alleles, the DQB1*04:01:01-04:01:02 and 04:01:04 alleles, the DQB1*04:02:01-04:02:06 alleles, the DQB1*05:01:01:01-05:01:08 and 05:01:11-05:01:19 alleles, the DQB1*05:01:09-05:01:10 alleles, the DQB1*05:02:01 and 05:02:03-05:02:11 alleles, the DQB1*05:03:01:01-05:03:11, 05:03:13 and 05:03:15-05:03:16 alleles, the DQB1*05:05:01-05:05:02 alleles, the DQB1*05:06:01-05:06:02 alleles, the DQB1*05:11:01-05:11:02 alleles, the DQB1*06:01:01, 06:01:03-06:01:06, 06:01:08-06:01:09, 06:01:11 and 06:01:13-06:01:14 alleles, the DQB1*06:01:02 and 06:01:07 alleles, the DQB1*06:02:01, 06:02:03, 06:02:06, 06:02:08-06:02:15 and 06:02:17-06:02:23 alleles, the DQB1*06:02:04, 06:02:16 alleles, the DQB1*06:03:01, 06:03:03, 06:03:05-06:03:07 and 06:03:11-06:03:18 alleles, the DQB1*06:03:04 and 06:03:08-06:03:09 alleles, the DQB1*06:04:01 and 06:04:03-06:04:10 alleles, the DQB1*06:08:02-06:08:03 alleles, the DQB1*06:09:03, 06:09:06 alleles, the DQB1*06:11:02-06:11:03 alleles, the DQB1*06:14:01-06:14:02 alleles, the DQB1*06:15:01-06:15:02 alleles, the DQB1*06:19:01-06:19:02 alleles, the DQB1*06:27:01-06:27:02 alleles or the DQB1*06:79:01-06:79:02 alleles.

RESOLUTION IN DQB1 HOMOZYGOTES AND HETEROZYGOTES:

Very good.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

No suggestions received.