

101.214-24/06 – including *Taq* polymerase
101.214-24u/06u – without *Taq* polymerase

Visit www.caredx.com for
“Instructions for Use” (IFU)

Lot No.: **6S3**

Lot-specific information

Olerup SSP® DQB1*03

Product number:	101.214-24/06 – including <i>Taq</i> pol. 101.214-24u/06u – without <i>Taq</i> pol.
Lot number:	6S3
Expiry date:	2027-10-01
Number of tests:	24 test – Product No. 101.214-24/24u 6 tests – Product No. 101.214-06/06u
Number of wells per test:	63+1
Storage - pre-aliquoted primers:	dark, between -15°C and -25°C
- PCR Master Mix:	between -15°C and -25°C
- Adhesive PCR seals	RT

This Product Description is only valid for Lot No. 6S3.

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

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® DQB1*03 Lot (9R9)

- The product documentation has been updated for new alleles of IMGT 3.53.0.
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles

The DQB1*03 primer set, specificity and interpretation tables have been updated for the HLA-DQB1 alleles described since the previous *Olerup* SSP® DQB1*03 lot was made (**Lot No. 9R9**).

The DQB1*03 primer set is unchanged compared to the previous *Olerup* SSP® DQB1*03 lot (**Lot No. 9R9**).

¹S. J. Mack, P. Cano, J. A. Hollenbach et al.
Common and well-documented HLA alleles: 2012 update to
the CWD catalogue. Tissue Antigens, 2013, 81, 194–203



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Well **64** contains Negative Control primer pairs, that will amplify the majority of the Olerup SSP[®] HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.
The PCR product generated by the positive control primer pair is 200 base pairs.

Length of PCR product	105	200	105	80	75	80	85
5'-primer¹	164	340	440	45	45	43	36
	5'-CAC3'	5'-Agg3'	5'-TTA3'	5'-Tgg3'	5'-Tgg3'	5'-Tgg3'	5'-TAC3'
							36
							5'-TAT3'
3'-primer²	231	2nd I	507	59	58	57	47
	5'-TgC3'	5'-AAA3'	5'-TTg3'	5'-CTC3'	5'-ggC3'	5'-CTC3'	5'-ACA3'
							48
							5'-gCA3'
							48
							5'-gCC3'
							52
							5'-TgT3'
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

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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PRODUCT DESCRIPTION

DQB1*03 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DQB1*03:01 to DQB1*03:513 alleles.

Please note that DQB1 amplifications usually are somewhat less pronounced than e.g. DRB and DQA1 amplifications even when using the same DNA preparation and exactly the same experimental procedures.

PLATE LAYOUT

Each test consists of 64 PCR reactions in a 64 well PCR plate.

Note: This lot was manufactured using white plastic trays.

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	NC

The 64 well cut PCR plate is marked with ‘DQB1*03’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘6S3’.

Wells 1 to 63 – DQB1*03 high resolution primers.

Well 64 – 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 covered with a PCR-compatible foil.

INTERPRETATION

Due to the sharing of sequence motifs, non-DQB1*03 alleles will be amplified by some primer mixes. The interpretation of DQB1*03 subtypings is not influenced by the DQB2 and DQB3 genes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the DQB1*03 alleles, i.e. **DQB1*03:01 to DQB1*03:513**, recognized by the HLA Nomenclature Committee in July 2023^{1,2} will be amplified by the primers in the DQB1*03 subtyping kit³.

The DQB1*03 kit enables separation of the confirmed DQB1*03 alleles as listed in the IMGT/HLA database 3.29.0. An HLA allele is listed as confirmed by IMGT/HLA



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if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for DQB1*03 alleles is listed below.

The DQB1*03 kit also enables identification of many null and alternatively expressed alleles.

The following DQB1*03 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
DQB1*03:35, 03:328	29
DQB1*03:49:01:01-03:49:01:02, 03:329	43
DQB1*03:97, 03:402	43
DQB1*03:169, 03:196	57
DQB1*03:190, 03:287	35
DQB1*03:245, 03:315	29
DQB1*03:286, 03:381	43

¹HLA-DQB1 alleles listed on the IMGT/HLA web page 2023-July-12, release 3.53.0, 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>.

³The following alleles cannot be separated by the HLA-DQB1*03 primer set. These alleles can be distinguished by the DQ low resolution kit and/or the HLA-DQB1*04 high resolution kit.

Alleles

DQB1*03:25:01, DQB1*04:03:03
DQB1*03:72, 03:100, DQB1*04:63
DQB1*03:132, DQB1*04:75

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in DQB1*03 homo- and heterozygotes is available upon request.



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ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
DQB1*03:01:01:01	Confirmed	DQB1*03:01:35	Unconfirmed	DQB1*03:04:01	Confirmed	DQB1*03:43	Unconfirmed
DQB1*03:01:01:02	Unconfirmed	DQB1*03:01:36	Unconfirmed	DQB1*03:04:02	Unconfirmed	DQB1*03:44	Confirmed
DQB1*03:01:01:03	Confirmed	DQB1*03:01:37	Unconfirmed	DQB1*03:04:03	Unconfirmed	DQB1*03:45	Confirmed
DQB1*03:01:01:04	Unconfirmed	DQB1*03:01:38	Unconfirmed	DQB1*03:05:01	Confirmed	DQB1*03:46	Unconfirmed
DQB1*03:01:01:05	Confirmed	DQB1*03:01:39	Unconfirmed	DQB1*03:05:02	Unconfirmed	DQB1*03:47	Confirmed
DQB1*03:01:01:06	Unconfirmed	DQB1*03:02:01:01	Confirmed	DQB1*03:05:03	Confirmed	DQB1*03:48	Unconfirmed
DQB1*03:01:01:07	Confirmed	DQB1*03:02:01:02	Confirmed	DQB1*03:05:04	Unconfirmed	DQB1*03:49	Unconfirmed
DQB1*03:01:01:08	Confirmed	DQB1*03:02:01:03	Unconfirmed	DQB1*03:06	Unconfirmed	DQB1*03:50	Unconfirmed
DQB1*03:01:01:09	Unconfirmed	DQB1*03:02:01:04	Unconfirmed	DQB1*03:07	Unconfirmed	DQB1*03:51	Unconfirmed
DQB1*03:01:01:10	Unconfirmed	DQB1*03:02:02	Unconfirmed	DQB1*03:08	Unconfirmed	DQB1*03:52	Confirmed
DQB1*03:01:01:11	Unconfirmed	DQB1*03:02:03	Unconfirmed	DQB1*03:09	Confirmed	DQB1*03:53	Confirmed
DQB1*03:01:01:12	Unconfirmed	DQB1*03:02:04	Unconfirmed	DQB1*03:10:01	Unconfirmed	DQB1*03:54	Confirmed
DQB1*03:01:01:14	Unconfirmed	DQB1*03:02:05	Unconfirmed	DQB1*03:10:02	Confirmed	DQB1*03:55	Confirmed
DQB1*03:01:01:15	Unconfirmed	DQB1*03:02:06	Confirmed	DQB1*03:11	Confirmed	DQB1*03:56	Confirmed
DQB1*03:01:01:16	Unconfirmed	DQB1*03:02:07	Confirmed	DQB1*03:12	Unconfirmed	DQB1*03:57	Unconfirmed
DQB1*03:01:01:17	Unconfirmed	DQB1*03:02:08	Unconfirmed	DQB1*03:13	Confirmed	DQB1*03:58	Confirmed
DQB1*03:01:01:18	Unconfirmed	DQB1*03:02:09	Confirmed	DQB1*03:14:01	Unconfirmed	DQB1*03:59	Confirmed
DQB1*03:01:02	Unconfirmed	DQB1*03:02:10	Confirmed	DQB1*03:14:02	Confirmed	DQB1*03:60	Unconfirmed
DQB1*03:01:03	Confirmed	DQB1*03:02:11	Confirmed	DQB1*03:15	Unconfirmed	DQB1*03:61	Unconfirmed
DQB1*03:01:04	Confirmed	DQB1*03:02:12	Confirmed	DQB1*03:16	Confirmed	DQB1*03:62	Confirmed
DQB1*03:01:05	Unconfirmed	DQB1*03:02:13	Confirmed	DQB1*03:17:01	Confirmed	DQB1*03:63	Confirmed
DQB1*03:01:06	Unconfirmed	DQB1*03:02:14	Unconfirmed	DQB1*03:17:02	Confirmed	DQB1*03:64	Confirmed
DQB1*03:01:07	Unconfirmed	DQB1*03:02:15	Confirmed	DQB1*03:18	Unconfirmed	DQB1*03:65	Confirmed
DQB1*03:01:08	Confirmed	DQB1*03:02:16	Confirmed	DQB1*03:19:01	Confirmed	DQB1*03:66N	Unconfirmed
DQB1*03:01:09	Unconfirmed	DQB1*03:02:17	Unconfirmed	DQB1*03:19:02	Unconfirmed	DQB1*03:67	Confirmed
DQB1*03:01:10	Unconfirmed	DQB1*03:02:18	Unconfirmed	DQB1*03:20	Unconfirmed	DQB1*03:68	Confirmed
DQB1*03:01:11	Unconfirmed	DQB1*03:02:19	Confirmed	DQB1*03:21	Unconfirmed	DQB1*03:69	Unconfirmed
DQB1*03:01:12	Unconfirmed	DQB1*03:02:20	Unconfirmed	DQB1*03:22	Unconfirmed	DQB1*03:70	Confirmed
DQB1*03:01:13	Unconfirmed	DQB1*03:02:21	Confirmed	DQB1*03:23:01	Unconfirmed	DQB1*03:71	Unconfirmed
DQB1*03:01:14	Confirmed	DQB1*03:02:22	Unconfirmed	DQB1*03:23:02	Unconfirmed	DQB1*03:72	Confirmed
DQB1*03:01:15	Unconfirmed	DQB1*03:02:23	Unconfirmed	DQB1*03:24	Unconfirmed	DQB1*03:73	Unconfirmed
DQB1*03:01:16	Unconfirmed	DQB1*03:02:24	Unconfirmed	DQB1*03:25:01	Confirmed	DQB1*03:74	Unconfirmed
DQB1*03:01:17	Confirmed	DQB1*03:02:25	Unconfirmed	DQB1*03:25:02	Unconfirmed	DQB1*03:75	Confirmed
DQB1*03:01:18	Unconfirmed	DQB1*03:03:02:01	Confirmed	DQB1*03:26	Confirmed	DQB1*03:76	Unconfirmed
DQB1*03:01:19	Unconfirmed	DQB1*03:03:02:02	Unconfirmed	DQB1*03:27	Confirmed	DQB1*03:77	Unconfirmed
DQB1*03:01:20	Unconfirmed	DQB1*03:03:02:03	Unconfirmed	DQB1*03:28	Unconfirmed	DQB1*03:78	Unconfirmed
DQB1*03:01:21	Confirmed	DQB1*03:03:02:04	Confirmed	DQB1*03:29	Unconfirmed	DQB1*03:79	Unconfirmed
DQB1*03:01:22	Confirmed	DQB1*03:03:03	Unconfirmed	DQB1*03:30	Unconfirmed	DQB1*03:80	Unconfirmed
DQB1*03:01:23	Unconfirmed	DQB1*03:03:04	Confirmed	DQB1*03:31	Unconfirmed	DQB1*03:81	Confirmed
DQB1*03:01:24	Unconfirmed	DQB1*03:03:05	Confirmed	DQB1*03:32	Unconfirmed	DQB1*03:82	Unconfirmed
DQB1*03:01:25	Unconfirmed	DQB1*03:03:06	Unconfirmed	DQB1*03:33	Unconfirmed	DQB1*03:83	Unconfirmed
DQB1*03:01:26	Unconfirmed	DQB1*03:03:07	Confirmed	DQB1*03:34	Unconfirmed	DQB1*03:84N	Unconfirmed
DQB1*03:01:27	Confirmed	DQB1*03:03:08	Confirmed	DQB1*03:35	Unconfirmed	DQB1*03:85	Unconfirmed
DQB1*03:01:28	Unconfirmed	DQB1*03:03:09	Unconfirmed	DQB1*03:36	Unconfirmed	DQB1*03:86	Unconfirmed
DQB1*03:01:29	Unconfirmed	DQB1*03:03:10	Unconfirmed	DQB1*03:37	Confirmed	DQB1*03:87	Unconfirmed
DQB1*03:01:30	Unconfirmed	DQB1*03:03:11	Confirmed	DQB1*03:38	Unconfirmed	DQB1*03:88	Unconfirmed
DQB1*03:01:31	Unconfirmed	DQB1*03:03:12	Unconfirmed	DQB1*03:39	Unconfirmed	DQB1*03:89	Unconfirmed
DQB1*03:01:32	Unconfirmed	DQB1*03:03:13	Unconfirmed	DQB1*03:40	Confirmed	DQB1*03:90N	Unconfirmed
DQB1*03:01:33	Unconfirmed	DQB1*03:03:14	Unconfirmed	DQB1*03:41	Unconfirmed	DQB1*03:91Q	Unconfirmed
DQB1*03:01:34	Unconfirmed	DQB1*03:03:15	Unconfirmed	DQB1*03:42	Unconfirmed	DQB1*03:92	Unconfirmed



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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
DQB1*03:93	Unconfirmed	DQB1*03:143	Unconfirmed	DQB1*03:193	Unconfirmed	DQB1*03:243	Confirmed
DQB1*03:94	Unconfirmed	DQB1*03:144	Unconfirmed	DQB1*03:194	Confirmed	DQB1*03:244	Unconfirmed
DQB1*03:95N	Unconfirmed	DQB1*03:145	Unconfirmed	DQB1*03:195	Confirmed	DQB1*03:245	Confirmed
DQB1*03:96	Unconfirmed	DQB1*03:146	Unconfirmed	DQB1*03:196	Confirmed	DQB1*03:246	Confirmed
DQB1*03:97	Unconfirmed	DQB1*03:147	Unconfirmed	DQB1*03:197Q	Confirmed	DQB1*03:247	Confirmed
DQB1*03:98	Unconfirmed	DQB1*03:148	Unconfirmed	DQB1*03:198	Unconfirmed	DQB1*03:248	Unconfirmed
DQB1*03:99Q	Unconfirmed	DQB1*03:149	Unconfirmed	DQB1*03:199	Confirmed	DQB1*03:249	Unconfirmed
DQB1*03:100	Unconfirmed	DQB1*03:150	Confirmed	DQB1*03:200	Confirmed	DQB1*03:250	Unconfirmed
DQB1*03:101	Unconfirmed	DQB1*03:151	Unconfirmed	DQB1*03:201	Confirmed	DQB1*03:251	Unconfirmed
DQB1*03:102	Confirmed	DQB1*03:152	Unconfirmed	DQB1*03:202	Unconfirmed	DQB1*03:252	Unconfirmed
DQB1*03:103	Unconfirmed	DQB1*03:153	Unconfirmed	DQB1*03:203	Unconfirmed	DQB1*03:253	Unconfirmed
DQB1*03:104	Unconfirmed	DQB1*03:154	Unconfirmed	DQB1*03:204	Confirmed	DQB1*03:254	Unconfirmed
DQB1*03:105	Confirmed	DQB1*03:155	Unconfirmed	DQB1*03:205	Confirmed	DQB1*03:255	Confirmed
DQB1*03:106	Confirmed	DQB1*03:156	Unconfirmed	DQB1*03:206	Unconfirmed	DQB1*03:256	Unconfirmed
DQB1*03:107	Unconfirmed	DQB1*03:157	Unconfirmed	DQB1*03:207	Confirmed	DQB1*03:257	Unconfirmed
DQB1*03:108	Unconfirmed	DQB1*03:158	Confirmed	DQB1*03:208	Unconfirmed	DQB1*03:258	Unconfirmed
DQB1*03:109	Confirmed	DQB1*03:159	Unconfirmed	DQB1*03:209	Unconfirmed	DQB1*03:259	Unconfirmed
DQB1*03:110	Unconfirmed	DQB1*03:160	Unconfirmed	DQB1*03:210	Unconfirmed	DQB1*03:260	Unconfirmed
DQB1*03:111	Unconfirmed	DQB1*03:161	Unconfirmed	DQB1*03:211	Confirmed	DQB1*03:261	Unconfirmed
DQB1*03:112	Unconfirmed	DQB1*03:162	Confirmed	DQB1*03:212	Confirmed	DQB1*03:262	Unconfirmed
DQB1*03:113	Confirmed	DQB1*03:163	Unconfirmed	DQB1*03:213N	Unconfirmed	DQB1*03:263	Unconfirmed
DQB1*03:114	Confirmed	DQB1*03:164	Unconfirmed	DQB1*03:214	Unconfirmed	DQB1*03:264	Unconfirmed
DQB1*03:115	Unconfirmed	DQB1*03:165	Unconfirmed	DQB1*03:215	Unconfirmed	DQB1*03:265	Unconfirmed
DQB1*03:116	Unconfirmed	DQB1*03:166	Unconfirmed	DQB1*03:216	Unconfirmed	DQB1*03:266	Unconfirmed
DQB1*03:117	Unconfirmed	DQB1*03:167	Unconfirmed	DQB1*03:217	Unconfirmed	DQB1*03:267	Unconfirmed
DQB1*03:118N	Confirmed	DQB1*03:168	Unconfirmed	DQB1*03:218	Unconfirmed	DQB1*03:268	Unconfirmed
DQB1*03:119	Confirmed	DQB1*03:169	Unconfirmed	DQB1*03:219	Unconfirmed	DQB1*03:269N	Unconfirmed
DQB1*03:120	Unconfirmed	DQB1*03:170	Confirmed	DQB1*03:220	Unconfirmed		
DQB1*03:121	Unconfirmed	DQB1*03:171	Unconfirmed	DQB1*03:221	Confirmed		
DQB1*03:122	Unconfirmed	DQB1*03:172	Unconfirmed	DQB1*03:222	Unconfirmed		
DQB1*03:123	Unconfirmed	DQB1*03:173	Unconfirmed	DQB1*03:223	Unconfirmed		
DQB1*03:124	Unconfirmed	DQB1*03:174	Unconfirmed	DQB1*03:224	Unconfirmed		
DQB1*03:125	Unconfirmed	DQB1*03:175	Unconfirmed	DQB1*03:225	Confirmed		
DQB1*03:126	Unconfirmed	DQB1*03:176	Unconfirmed	DQB1*03:226	Unconfirmed		
DQB1*03:127	Unconfirmed	DQB1*03:177	Confirmed	DQB1*03:227	Unconfirmed		
DQB1*03:128	Unconfirmed	DQB1*03:178	Unconfirmed	DQB1*03:228	Confirmed		
DQB1*03:129	Unconfirmed	DQB1*03:179	Unconfirmed	DQB1*03:229	Unconfirmed		
DQB1*03:130	Confirmed	DQB1*03:180	Unconfirmed	DQB1*03:230	Unconfirmed		
DQB1*03:131	Unconfirmed	DQB1*03:181	Unconfirmed	DQB1*03:231	Unconfirmed		
DQB1*03:132	Confirmed	DQB1*03:182	Unconfirmed	DQB1*03:232	Confirmed		
DQB1*03:133	Unconfirmed	DQB1*03:183	Unconfirmed	DQB1*03:233	Confirmed		
DQB1*03:134	Unconfirmed	DQB1*03:184	Confirmed	DQB1*03:234	Unconfirmed		
DQB1*03:135	Unconfirmed	DQB1*03:185	Unconfirmed	DQB1*03:235	Unconfirmed		
DQB1*03:136	Unconfirmed	DQB1*03:186	Unconfirmed	DQB1*03:236	Unconfirmed		
DQB1*03:137	Unconfirmed	DQB1*03:187	Unconfirmed	DQB1*03:237N	Unconfirmed		
DQB1*03:138	Confirmed	DQB1*03:188	Confirmed	DQB1*03:238	Unconfirmed		
DQB1*03:139	Confirmed	DQB1*03:189	Unconfirmed	DQB1*03:239	Confirmed		
DQB1*03:140	Unconfirmed	DQB1*03:190	Unconfirmed	DQB1*03:240	Confirmed		
DQB1*03:141	Unconfirmed	DQB1*03:191	Confirmed	DQB1*03:241	Unconfirmed		
DQB1*03:142	Unconfirmed	DQB1*03:192	Unconfirmed	DQB1*03:242	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-August-10, release 3.29.0, www.ebi.ac.uk/imgt/hla.



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SPECIFICITY TABLE

DQB1*03 SSP subtyping

Specificities and sizes of the PCR products of the 63+1 primer mixes used for
DQB1*03 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified DQB1*03 alleles ²	Other amplified DQB1 alleles
1 ⁶	170 bp	515 bp	*03:01:01:01-03:01:01:12, 03:01:01:14-03:01:58, 03:04:01:01- 03:04:04, 03:09, 03:13, 03:16, 03:19:01:01-03:19:06, 03:21-03:22:02, 03:24, 03:27-03:29, 03:35-03:36, 03:42, 03:44, 03:46-03:60, 03:69, 03:71, 03:73-03:78, 03:80, 03:82- 03:84N, 03:92-03:94, 03:101-03:103, 03:108, 03:113-03:116, 03:118N- 03:122, 03:127-03:131, 03:134-03:135, 03:139-03:140, 03:142-03:144, 03:147-03:148, 03:150-03:152, 03:157-03:160, 03:162-03:167, 03:169-03:173, 03:182, 03:184, 03:188, 03:191-03:194, 03:196- 03:198:02, 03:201-03:202, 03:206- 03:208, 03:216, 03:218-03:219, 03:231-03:232, 03:235-03:236, 03:241-03:243, 03:246, 03:252-03:257, 03:260, 03:264, 03:266-03:268, 03:271, 03:275-03:276N, 03:281, 03:284-03:286, 03:288, 03:290-03:294, 03:297, 03:302-03:303N, 03:305- 03:307, 03:309:01-03:309:02, 03:311- 03:312, 03:314, 03:317:01-03:318, 03:326-03:331, 03:338N, 03:340N- 03:342, 03:347, 03:350, 03:353, 03:355, 03:358N, 03:360-03:361, 03:366, 03:370, 03:372-03:373, 03:376N-03:378, 03:380-03:382, 03:385N, 03:387, 03:389-03:391, 03:394, 03:396, 03:399N-03:401, 03:404, 03:407N-03:408, 03:417- 03:421, 03:423-03:428, 03:430-03:432, 03:434-03:436, 03:438-03:439, 03:448-03:449, 03:451, 03:454-03:455, 03:458, 03:460, 03:465, 03:467- 03:470, 03:472-03:473N, 03:475- 03:476, 03:480Q, 03:482-03:483, 03:485-03:486, 03:488N, 03:491- 03:492, 03:496-03:497, 03:499N, 03:503, 03:506, 03:508, 03:513	*02:152, 04:09
2 ⁶	220 bp	515 bp	*03:01:01:01-03:01:01:12, 03:01:01:14-03:01:07, 03:01:09- 03:01:58, 03:04:01:01-03:04:04,	



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3 ⁴	135 bp	515 bp	*03:02:01:01-03:02:38, 03:07-03:08, 03:11, 03:18, 03:32, 03:37, 03:45:01-03:45:02, 03:62-03:64, 03:66N-03:68, 03:70, 03:81, 03:85, 03:106-03:107, 03:125, 03:146, 03:153, 03:161, 03:174-03:175, 03:178-03:179, 03:184-03:185, 03:189-03:190, 03:199, 03:203-03:205, 03:210-03:211, 03:213N-03:215, 03:220-03:221, 03:223-03:225, 03:228-03:229, 03:233, 03:237N, 03:240, 03:245, 03:247, 03:251, 03:261, 03:263:01:01-03:263:01:02, 03:265, 03:269N, 03:273-03:274, 03:277-03:279, 03:287, 03:289, 03:295-03:296, 03:298-03:301, 03:308, 03:310N, 03:315, 03:320-03:324, 03:333-03:334N, 03:339N,	*02:01:01:01-02:01:09, 02:01:11-02:01:13, 02:01:15-02:01:20, 02:01:22-02:01:27, 02:01:29-02:01:37, 02:01:39-02:02:10, 02:02:12-02:02:23, 02:04-02:16, 02:18N-02:36, 02:38-02:76, 02:78-02:94, 02:96N-02:115, 02:117-02:146, 02:148-02:171Q, 02:173-02:179, 02:182-02:187, 02:189-02:211, 02:213, 06:29, 06:63, 06:123, 06:139, 06:320, 06:337	



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4	220 bp	515 bp	*03:02:01:01-03:03:30, 03:06-03:08, 03:11-03:12, 03:15, 03:18, 03:20, 03:23:01-03:23:03, 03:25:01-03:26, 03:30-03:34, 03:37-03:41, 03:43, 03:45:01-03:45:02, 03:62-03:68, 03:70, 03:74, 03:79, 03:81, 03:85-03:91Q, 03:95N-03:99Q, 03:104, 03:106- 03:107, 03:110-03:113, 03:117, 03:123-03:126, 03:136-03:137, 03:141, 03:145-03:146, 03:149, 03:153, 03:155-03:156, 03:161, 03:168, 03:174-03:179, 03:184-03:185, 03:190, 03:199-03:200, 03:203-03:205, 03:209-03:215, 03:217, 03:220-03:225, 03:227-03:230, 03:233-03:234, 03:237N-03:240, 03:245, 03:247- 03:249, 03:251, 03:259, 03:261, 03:263:01:01-03:263:01:02, 03:265, 03:269N-03:270, 03:273-03:274, 03:277-03:280, 03:282N-03:283, 03:287, 03:289, 03:295-03:296, 03:298-03:301, 03:304, 03:308, 03:310N, 03:313, 03:315-03:316, 03:319-03:324, 03:332-03:334N, 03:336-03:337, 03:339N, 03:343- 03:345, 03:348-03:349, 03:351-03:352, 03:356N-03:357N, 03:359, 03:362- 03:365, 03:367-03:369, 03:371, 03:374-03:375N, 03:379, 03:382- 03:384, 03:386, 03:388, 03:392- 03:393, 03:395, 03:397-03:398, 03:402-03:403N, 03:405-03:406, 03:409-03:416, 03:422N, 03:429, 03:433, 03:437, 03:440N-03:442, 03:444-03:447, 03:450, 03:452-03:453, 03:456-03:457, 03:459, 03:461-03:464, 03:466, 03:471, 03:477-03:479, 03:481, 03:484, 03:487, 03:489- 03:490, 03:493-03:495, 03:498, 03:500-03:502, 03:504-03:505, 03:507, 03:509N-03:512
			*02:01:01:01-02:01:09, 02:01:11-02:01:13, 02:01:15-02:01:27, 02:01:29-02:36, 02:38- 02:94, 02:96N-02:115, 02:117-02:146, 02:148- 02:171Q, 02:173-02:180, 02:182-02:211, 02:213, 04:03:01-04:03:03



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5⁴	135 bp	430 bp	*03:04:01:01-03:04:04, 03:14:01-03:14:02, 03:80, 03:138, 03:318, 03:327, 03:443, 03:474	*06:246
6^{3,5}	95 bp 130 bp	430 bp	*03:20 *03:05:01-03:05:05, 03:17:01-03:17:02, 03:61, 03:72, 03:100, 03:132, 03:181, 03:226, 03:244, 03:250, 03:262, 03:272, 03:346	*04:09, 04:63, 04:75, 05:131, 05:276
7³	115 bp	430 bp	*03:03:06, 03:06, 03:25:01-03:25:02, 03:42, 03:88	*04:01:03, 04:02:16, 04:03:03
8³	150 bp 110 bp 145 bp	430 bp	*03:84N *03:15 *03:07, 03:16, 03:438	
9³	65 bp 145 bp	430 bp	*03:40, 03:353 *03:08, 03:119, 03:137, 03:194	*06:02:02, 06:03:02, 06:03:34, 06:145:02, 06:208:02
10	135 bp 260 bp	430 bp	*03:09 *03:11, 03:26, 03:244	
11⁵	140 bp	430 bp	*03:10:01-03:10:03, 03:12, 03:14:01-03:14:02, 03:70, 03:179, 03:183, 03:195, 03:474	*06:01:01:01-06:01:06, 06:01:08-06:01:31, 06:01:33-06:01:34, 06:06 [?] , 06:43, 06:54N-06:58, 06:98, 06:99:02-06:105, 06:108, 06:120, 06:132, 06:140, 06:153:01-06:153:02, 06:157, 06:167-06:168, 06:177, 06:181, 06:194, 06:205, 06:209, 06:214, 06:229, 06:239, 06:243, 06:245-06:247, 06:251, 06:257-06:258, 06:260, 06:263, 06:268, 06:274, 06:277, 06:285, 06:302, 06:305, 06:307, 06:309-06:310, 06:312, 06:321, 06:323, 06:330N, 06:342, 06:359, 06:377, 06:382, 06:415, 06:418-06:419, 06:421, 06:427, 06:435, 06:462-06:464, 06:466, 06:469, 06:471-06:472
12	255 bp 260 bp	515 bp	*03:47 *03:01:01:01-03:01:01:12, 03:01:01:14-03:01:07, 03:01:09-03:01:58, 03:04:01:01-03:04:04, 03:09-03:10:03, 03:12-03:14:02, 03:16, 03:19:01:01-03:19:06, 03:21-03:22:02, 03:24, 03:27-03:29, 03:35-03:36, 03:42, 03:44, 03:46-03:60, 03:70-03:71, 03:73-03:78, 03:80, 03:82-03:84N, 03:92-03:94, 03:101-03:103, 03:108, 03:114-03:116, 03:118N-03:122, 03:127-03:131, 03:133-03:135,	



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13³	115 bp 170 bp 205 bp	430 bp	*03:255 *03:13, 03:232 *03:48	
14⁵	130 bp	430 bp	*03:01:01:01-03:01:01:12, 03:01:01:14-03:01:12, 03:01:14, 03:01:16-03:01:24, 03:01:26-03:01:58, 03:04:01:01-03:04:04, 03:09-03:10:03, 03:13-03:14:02, 03:19:01:01-03:19:06, 03:21-03:22:02, 03:24, 03:27-03:29, 03:35-03:36, 03:42, 03:44, 03:46- 03:60, 03:69, 03:71, 03:73, 03:75- 03:77, 03:80, 03:82-03:84N, 03:92- 03:94, 03:101-03:103, 03:108-03:109, 03:114-03:116, 03:118N-03:122, 03:127-03:129, 03:131, 03:133-03:135, 03:138-03:140, 03:142-03:144, 03:147-03:148, 03:150, 03:152, 03:154, 03:157-03:160, 03:162-03:167, 03:169-03:171, 03:173, 03:180, 03:182-03:183, 03:186-03:188, 03:191-03:196, 03:198:01-03:198:02, 03:201, 03:206-03:208, 03:216, 03:218-03:219, 03:231-03:232, 03:235-03:236, 03:241-03:243, 03:246,	*06:209, 06:475



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15	135 bp	515 bp	*03:01:01:01-03:01:01:12, 03:01:01:14-03:01:07, 03:01:09- 03:01:33, 03:01:35-03:01:36, 03:01:38- 03:03:22, 03:03:24-03:15, 03:17:01- 03:22:02, 03:24, 03:26-03:103, 03:106- 03:108, 03:110-03:152, 03:155-03:171, 03:173-03:188, 03:190-03:204, 03:206-03:213N, 03:215-03:216, 03:218-03:233, 03:235-03:257, 03:260, 03:262-03:281, 03:283-03:324, 03:326-03:332, 03:334N, 03:336- 03:338N, 03:340N-03:354N, 03:356N- 03:386, 03:388-03:420, 03:422N- 03:435, 03:437-03:442, 03:444-03:449, 03:451-03:513	*04:09, 04:63, 04:75
16⁵	130 bp	430 bp	*03:01:01:01-03:01:01:12, 03:01:01:14-03:01:02, 03:01:04:01- 03:01:07, 03:01:09-03:01:12, 03:01:14, 03:01:16-03:01:24, 03:01:26-03:01:58, 03:03:02:01-03:03:30, 03:06, 03:09- 03:10:03, 03:12-03:13, 03:15-03:17:02, 03:19:01:01-03:24, 03:26-03:31, 03:33-03:36, 03:38:01-03:44, 03:46- 03:60, 03:65, 03:69, 03:71-03:79, 03:82-03:84N, 03:86-03:103, 03:108, 03:111-03:124, 03:126-03:129, 03:131, 03:133-03:137, 03:139-03:145, 03:147-03:152, 03:155-03:160, 03:162-03:171, 03:173, 03:176-03:177, 03:180, 03:182-03:183, 03:186-03:188, 03:191-03:198:02, 03:200-03:201, 03:206-03:209, 03:212, 03:216-03:219,	*02:03:02, 02:77, 02:180, 04:09-04:10, 04:50, 04:63



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17	165 bp 225 bp	430 bp	*03:43, 03:87 *03:18, 03:85
18⁶	175 bp	515 bp	*03:02:01:01-03:02:33, 03:02:35- 03:03:30, 03:05:01-03:05:05, 03:06 ² - 03:07 ² , 03:08, 03:11, 03:14:01 ² -03:15 ² , 03:17:01 ² -03:18 ² , 03:19:01:01- 03:19:06, 03:20 ² , 03:23:01 ² , 03:23:02, 03:23:03 ² , 03:25:01, 03:25:02 ² -03:26 ² , 03:30-03:32, 03:33 ² -03:34 ² , 03:37- 03:41, 03:43, 03:45:01-03:45:02, 03:48 ² , 03:52 ² -03:54 ² , 03:56 ² -03:67 ² , 03:68, 03:69 ² -03:70 ² , 03:71-03:72, 03:74 ² -03:78 ² , 03:79, 03:81 ² -03:82 ² , 03:85-03:91Q, 03:95N-03:100, 03:101 ² -03:104 ² , 03:105, 03:106 ² - 03:112 ² , 03:117, 03:118N ² , 03:120 ² - 03:125 ² , 03:126, 03:127 ² -03:131 ² , 03:132, 03:133 ² -03:135 ² , 03:136, 03:137 ² , 03:138, 03:140 ² -03:149 ² , 03:150, 03:152 ² -03:163 ² , 03:165 ² - 03:167 ² , 03:168, 03:170 ² -03:171 ² , 03:173 ² -03:179 ² , 03:180-03:181, 03:183 ² , 03:184, 03:185 ² , 03:187, 03:188 ² -03:189 ² , 03:190, 03:192 ² - 03:194 ² , 03:195, 03:199-03:200, 03:201 ² -03:205 ² , 03:207 ² -03:210 ² , 03:211, 03:212 ² -03:214 ² , 03:215, 03:216 ² -03:221 ² , 03:222, 03:223 ² - 03:228 ² , 03:229, 03:230 ² , 03:232 ² - 03:238 ² , 03:239, 03:240 ² , 03:244 ² , *04:01:01:01-04:02:01:01, 04:02:01:04-04:44, 04:46N- 04:97



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			03:245, 03:247-03:248, 03:250-03:251, 03:255 [?] -03:262 [?] , 03:263:01:01- 03:263:01:02, 03:265, 03:267 [?] - 03:270 [?] , 03:272, 03:273 [?] -03:275 [?] , 03:277, 03:278 [?] , 03:279-03:280, 03:282N-03:283, 03:286-03:287, 03:289, 03:295-03:296, 03:298-03:301, 03:304, 03:308, 03:310N, 03:313, 03:315-03:316, 03:319-03:324, 03:332-03:337, 03:339N, 03:343- 03:346, 03:348-03:349, 03:351 [?] - 03:353 [?] , 03:356N [?] , 03:357N, 03:359 [?] , 03:362-03:365, 03:367-03:369, 03:371, 03:374-03:376N, 03:379, 03:381- 03:384, 03:386, 03:387 [?] , 03:388, 03:392-03:395, 03:398, 03:401- 03:403N, 03:405-03:406, 03:409- 03:416, 03:422N, 03:425 [?] , 03:429, 03:433, 03:437 [?] -03:438 [?] , 03:440N, 03:441 [?] , 03:442, 03:444-03:447, 03:449 [?] -03:450 [?] , 03:452-03:453, 03:455 [?] -03:456 [?] , 03:457, 03:459, 03:461-03:464, 03:466, 03:471, 03:474, 03:477-03:479, 03:484-03:485, 03:487, 03:489-03:490, 03:492 [?] , 03:493-03:495, 03:498, 03:500-03:502, 03:504-03:505, 03:507, 03:509N- 03:512
19 ^{4,6}	175 bp	515 bp	*03:01:01:01-03:01:01:12, 03:01:01:14-03:01:58, 03:04:01:01- 03:04:04, 03:06 [?] -03:07 [?] , 03:09- 03:10:03, 03:12-03:13, 03:14:01 [?] - 03:15 [?] , 03:16, 03:17:01 [?] -03:18 [?] , 03:20 [?] , 03:21-03:22:02, 03:23:01 [?] , 03:23:03 [?] , 03:24, 03:25:02 [?] -03:26 [?] , 03:27-03:29, 03:33 [?] -03:34 [?] , 03:35- 03:36, 03:42, 03:44, 03:46-03:47, 03:48 [?] , 03:49:01:01-03:51, 03:52 [?] - 03:54 [?] , 03:55, 03:56 [?] -03:67 [?] , 03:69 [?] - 03:70 [?] , 03:73, 03:74 [?] -03:78 [?] , 03:80, 03:81 [?] -03:82 [?] , 03:83-03:84N, 03:92- 03:94, 03:101 [?] -03:104 [?] , 03:106 [?] - 03:112 [?] , 03:113-03:116, 03:118N [?] , 03:119, 03:120 [?] -03:125 [?] , 03:127 [?] - 03:131 [?] , 03:133 [?] -03:135 [?] , 03:137 [?] , 03:139, 03:140 [?] -03:149 [?] , 03:151, 03:152 [?] -03:163 [?] , 03:164, 03:165 [?] - 03:167 [?] , 03:169, 03:170 [?] -03:171 [?] , 03:172, 03:173 [?] -03:179 [?] , 03:182, 03:183 [?] , 03:185 [?] , 03:186, 03:188 [?] - 03:189 [?] , 03:191, 03:192 [?] -03:194 [?] , 03:196-03:198:02, 03:201 [?] -03:205 [?] , 03:206, 03:207 [?] -03:210 [?] , 03:212 [?] - 03:214 [?] , 03:216 [?] -03:221 [?] , 03:223 [?] - 03:228 [?] , 03:230 [?] , 03:231, 03:232 [?] - 03:238 [?] , 03:240 [?] , 03:241-03:243,



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20	150 bp	430 bp	*03:21, 03:452	*02:64, 02:79, 05:35, 05:182, 05:259, 06:243, 06:255
	240 bp		*03:246	*06:310
21	160 bp	515 bp	*03:22:01:01-03:22:02, 03:96, 03:251	*02:108, 02:144, 04:23, 05:103 ^w , 05:226, 05:231 ^w , 06:04:01:01 ^w -06:04:15 ^w , 06:04:17 ^w -06:05:02 ^w , 06:06 [?] , 06:07:01 ^w - 06:07:02 ^w , 06:08:02 [?] - 06:08:03 [?] , 06:09:01:01 ^w - 06:09:12 ^w , 06:11:02 [?] - 06:11:03 [?] , 06:12 ^w , 06:13:02 [?] -06:13:03 [?] , 06:15:01 [?] , 06:17 [?] - 06:18:01 [?] , 06:18:02 ^w , 06:19:01 [?] , 06:21 ^w , 06:22:01 [?] -06:25 [?] , 06:27:02 [?] , 06:29 [?] - 06:32:02 [?] , 06:34 ^w , 06:35 [?] , 06:36 ^w , 06:38 ^w , 06:40 [?] , 06:41:01:01 ^w -06:42 ^w , 06:45 [?] , 06:50 [?] , 06:51:02 [?] , 06:52 ^w , 06:53:01 [?] -06:54N [?] , 06:56 [?] -06:57:01 [?] , 06:58 ^w , 06:59 [?] -06:61 [?] , 06:63 [?] - 06:67 [?] , 06:69:01 [?] -06:72 [?] , 06:76 [?] , 06:79:02 [?] -06:83 [?] , 06:84:01:01 ^w -06:84:01:02 ^w ,



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22	160 bp	515 bp	*03:23:01	*05:03:12, 05:43:02, 06:03:01:01-06:03:03, 06:03:05-06:03:07, 06:03:11-06:03:25, 06:03:27-06:03:33, 06:03:35-06:03:48, 06:04:02, 06:07:01, 06:08:01, 06:09:02, 06:11:01:01-06:11:03, 06:26N, 06:28,



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				06:30-06:32:01, 06:40-06:41:01:03, 06:44, 06:59-06:62, 06:64-06:65, 06:67, 06:90-06:92:02, 06:94, 06:110, 06:118:01, 06:118:03, 06:128, 06:133-06:134, 06:141, 06:143-06:145:02, 06:148, 06:154, 06:165, 06:169-06:170, 06:184-06:185, 06:187, 06:191, 06:195-06:196, 06:199, 06:203, 06:210, 06:218, 06:221-06:223, 06:230, 06:234, 06:238, 06:248, 06:250, 06:253, 06:259, 06:272, 06:276, 06:279, 06:316, 06:327-06:329, 06:331, 06:334, 06:336, 06:345N-06:346, 06:350, 06:352, 06:360, 06:362, 06:365, 06:367, 06:371, 06:385, 06:391-06:394N, 06:396, 06:399-06:400, 06:403, 06:410, 06:423N-06:425, 06:428, 06:433, 06:440, 06:442-06:443, 06:450, 06:454N-06:455, 06:459-06:460, 06:470, 06:474
23^{3,4}	95 bp 125 bp 150 bp 185 bp 220 bp	430 bp	*03:41, 03:224 *03:24-03:25:02, 03:79, 03:89, 03:234, 03:239, 03:447 *03:84N *03:45:01-03:45:02 *03:258	*04:03:01-04:03:03, 04:81, 04:96
24^{3,5}	120 bp 210 bp	430 bp	*03:39 *03:27, 03:48, 03:56	
25^{3,4}	105 bp 130 bp 155 bp 180 bp 240 bp	430 bp	*03:206 *03:24, 03:79, 03:447 *03:80, 03:257 *03:29, 03:118N, 03:237N *03:34	*04:81 *02:14:01:01-02:14:01:02
26	180 bp	430 bp	*03:30, 03:52, 03:72, 03:100, 03:132, 03:179, 03:215, 03:270, 03:474	*04:09, 04:63, 04:75, 06:29, 06:96:01-06:96:02, 06:139, 06:209, 06:322:01-06:322:03, 06:337, 06:475
27⁶	170 bp 225 bp 250 bp	430 bp	*03:32, 03:87 *03:85 *03:31	
28	200 bp 230 bp	430 bp	*03:37-03:38:02, 03:46, 03:252, 03:277, 03:500, 03:510 *03:225	
29³	110 bp 165 bp 255 bp	515 bp	*03:33, 03:245, 03:328 *03:35, 03:315 *03:243	*05:281, 06:228, 06:304N *02:126



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30⁴	135 bp 175 bp	515 bp	*03:36, 03:149 *03:150, 03:490	
31³	115 bp 195 bp 225 bp	430 bp	*03:255 *03:28 *03:56, 03:83	
32³	100 bp	430 bp	*03:44	
33^{3,7}	85 bp 160 bp	430 bp	*03:59 *03:204	*06:37, 06:374
34	190 bp	430 bp	*03:58, 03:82, 03:198:01, 03:222	
35	135 bp	430 bp	*03:190, 03:205, 03:214, 03:506	*02:157, 04:15, 04:42, 05:102, 05:308, 06:223, 06:406 *02:196, 04:35
	190 bp 235 bp		*03:51, 03:54, 03:287 *03:117	
36	145 bp 175 bp 200 bp	430 bp	*03:205, 03:214 *03:55, 03:60, 03:250 *03:269N	*04:15
37	180 bp 230 bp	430 bp	*03:60, 03:77 *03:53, 03:62, 03:225	*02:212
38	170 bp 225 bp	430 bp	*03:58, 03:194, 03:232 *03:57, 03:83	*06:82, 06:233, 06:302
39³	105 bp 140 bp	430 bp	*03:240 *03:25:01-03:25:02, 03:66N, 03:234, 03:239 *03:68 *03:86	*04:03:01-04:03:03, 06:193N *02:151
40	180 bp	430 bp	*03:67-03:68, 03:228	*06:17, 06:24, 06:30, 06:42, 06:318, 06:457
	230 bp		*03:104, 03:212	*02:47
41	135 bp 175 bp 210 bp	430 bp	*03:282N *03:63, 03:75, 03:168 *03:201, 03:269N	
42³	80 bp 165 bp 220 bp	430 bp	*03:188 *03:64, 03:76-03:77 *03:201	
43⁴	175 bp	430 bp	*03:49:01:01-03:49:01:02, 03:198:01, 03:222, 03:247, 03:285-03:286, 03:402, 03:471 *03:97, 03:329, 03:349, 03:381	*02:10, 02:81, 05:152, 05:314, 06:359, 06:381, 06:396, 06:468 *06:86, 06:104, 06:366
44	250 bp 160 bp 220 bp 270 bp	430 bp	*03:199, 03:211 *03:78 *03:71	
45^{3,5}	90 bp 135 bp 170 bp 230 bp	430 bp	*03:65 *03:282N *03:133, 03:200, 03:462 *03:81, 03:159	*02:84, 04:14 *02:116
46^{3,4,6}	115 bp 175 bp	430 bp	*03:88-03:89 *03:191	*04:96
47	175 bp	430 bp	*03:06 [?] -03:07 [?] , 03:14:01 [?] -03:15 [?] , 03:17:01 [?] -03:18 [?] , 03:19:01:01- 03:19:06, 03:20 [?] , 03:23:01 [?] , 03:23:03 [?] , 03:25:02 [?] -03:26 [?] , 03:48 [?] , 03:52 [?] - 03:54 [?] , 03:56 [?] -03:67 [?] , 03:69 [?] -03:70 [?] ,	



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48⁵	145 bp	430 bp	*03:105-03:106, 03:109, 03:120	
49	140 bp 175 bp	430 bp	*03:94, 03:164, 03:182 *03:191	*04:44
50^{3,5}	105 bp 150 bp	515 bp	*03:206 *03:98, 03:165, 03:182	
51^{3,5}	105 bp 140 bp 165 bp	430 bp	*03:90N, 03:240 *03:239 *03:115, 03:213N, 03:228, 03:368	*02:106, 04:43, 05:246, 05:287, 06:17, 06:24, 06:30, 06:42, 06:109
52^{3,5}	220 bp 80 bp 185 bp	430 bp	*03:258 *03:188 *03:99Q, 03:118N, 03:133, 03:162, 03:183, 03:200, 03:223, 03:233, 03:237N, 03:351, 03:462	*02:84, 04:14
53³	125 bp 155 bp 190 bp	430 bp	*03:130, 03:271 *03:139, 03:199 *03:162, 03:183, 03:204, 03:223, 03:233, 03:351	
54³	95 bp 170 bp 220 bp	430 bp	*03:91Q *03:146, 03:158, 03:170, 03:207 *03:181	
55⁷	155 bp 195 bp	430 bp	*03:102 *03:114	
56	155 bp 200 bp	430 bp	*03:95N, 03:210 *03:150, 03:170, 03:490	
57³	100 bp 215 bp 240 bp	515 bp	*03:196, 03:442 *03:169 *03:246	*05:45, 05:201, 06:323 *06:327 *06:310
58⁷	155 bp 180 bp	430 bp	*03:102 *03:197Q	



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59³	100 bp	430 bp	*03:10:01-03:10:03, 03:14:01-03:14:02, 03:138, 03:180, 03:183, 03:195, 03:474	*06:01:01:01-06:01:31, 06:01:33-06:01:34, 06:43, 06:45, 06:54N-06:57:02, 06:98, 06:99:02-06:105, 06:108, 06:120, 06:132, 06:140, 06:153:01-06:153:02, 06:157, 06:177, 06:181, 06:194, 06:205, 06:209, 06:214, 06:229, 06:239, 06:243, 06:245-06:247, 06:251, 06:257-06:258, 06:263, 06:268, 06:274, 06:277, 06:285, 06:302, 06:305, 06:307, 06:309-06:310, 06:312, 06:321, 06:323, 06:330N, 06:359, 06:382, 06:418-06:419, 06:421, 06:427, 06:435, 06:462-06:464, 06:466, 06:469, 06:471-06:472
60	185 bp	430 bp	*03:132, 03:215	*04:75, 06:29, 06:123, 06:139, 06:337
61^{4,5,8}	115 bp 155 bp 255 bp	430 bp	*03:116 *03:221, 03:450 *03:243	*06:51:01-06:51:02, 06:377 *02:126
62	175 bp	430 bp	*03:50, 03:247, 03:285	
63	160 bp	430 bp	*03:276N	
64⁹	-	-	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 DQB1*03 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.

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.

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.

²For several DQB1 alleles 1st and/or 3rd exon(s) and beyond, as well as intron nucleotide sequences, are not available. 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.

³HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁴Primer mixes 3, 5, 19, 23, 25, 30, 43, 45, 46, 48, 51, 52 and 61 may have a tendency to giving rise to primer oligomer formation.

⁵Primer mixes 6, 11, 14, 16, 19, 24, 46 and 50 may have tendencies of unspecific amplifications.



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⁶Primer mixes 1, 2, 18, 27 and 33 may give rise to a lower yield of HLA-specific PCR product than the other DQB1*03 primer mixes.

⁷Primer mixes 55 and 58 may give rise to a long unspecific amplification product at approximately 1000 bp. This should be disregarded when interpreting the DQB1*03 typings.

⁸In primer mix 61 the positive control band may be weaker than for other DQB1*03 primer mixes.

⁹Primer mix 64 contains a negative control, which will amplify the majority of the HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.

Abbreviations

w: might be weakly amplified.

?: nucleotide sequence information not available for the primer matching region.



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PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	170	220	135	220	135	95	115	110	65	135	140	260
						130	150	145	145	260	255	
Length of int. pos. control ¹	515	515	515	515	430	430	430	430	430	430	430	515
5'-primer(s) ²	45(230) 5'-ggA 3'	26(173) 5'-TTA 3'	26(173) 5'-TCT 3'	26(173) 5'-TCT 3'	26(173) 5'-TTA 3'	26(173) 5'-ggg 3'	38(210) 5'-gCA 3'	49(242) 5'-ggT 3'	38(210) 5'-gCA 3'	14(136) 5'-gCC 3'	13(134) 5'-ggC 3'	13(134) 5'-ggC 3'
						38(208) 5'-ACA 3'	140(514) 5'-CAA 3'	55(260) 5'-gCA 3'		135(500) 5'-TgA 3'		
								63(285) 5'-Agg 3'				
3'-primer(s) ³	86(353) 5'-gCT 3'	86(353) 5'-gCT 3'	57(266) 5'-Cgg 3'	86(353) 5'-gCT 3'	57(266) 5'-Cgg 3'	55(260) 5'-gCg 3'	62(282) 5'-CTA 3'	86(353) 5'-gCT 3'	46(232) 5'-CAA 3'	86(353) 5'-gCT 3'	45(230) 5'-CCC 3'	86(353) 5'-gCT 3'
	86(353) 5'-gTT 3'	87(357) 5'-CgT 3'	57(266) 5'-CAg 3'	87(356) 5'-ggg 3'			163(583) 5'-CAC 3'		70(304) 5'-CCC 3'	167(596) 5'-CAT 3'	48(240) 5'-gCg 3'	87(357) 5'-CgT 3'
	87(357) 5'-CgT 3'		57(266) 5'-Cgg 3'	87(357) 5'-CgA 3'			165(589) 5'-ggT 3'		75(320) 5'-CCC 3'		85(349) 5'-CAT 3'	
							176(622) 5'-CTA 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	115	130	135	130	165	175	175	150	160	160	95	120
	170				225			240			125	210
	205										150	
											185	
											220	
Length of int. pos. control ¹	430	430	515	430	430	515	515	430	515	515	430	430
5'-primer(s) ²	26(173) 5'-TTA 3'	26(173) 5'-TTA 3'	55(260) 5'-gCC 3'	57(266) 5'-TgA 3'	27(175) 5'-TTC 3'	140(514) 5'-CAA 3'	140(514) 5'-CAA 3'	104(406) 5'-CAC 3'	130(485) 5'-CCA 3'	9(122) 5'-gTA 3'	26(173) 5'-TCT 3'	26(173) 5'-TTA 3'
				57(266) 5'-TgA 3'	123(464) 5'-CTT 3'			133(493) 5'-TTT 3'			140(514) 5'-CAA 3'	102(400) 5'-TCT 3'
					142(520) 5'-gCC 3'							
					146(533) 5'-CCA 3'							
3'-primer(s) ³	51(248) 5'-gCA 3'	55(260) 5'-gCg 3'	86(353) 5'-gCT 3'	86(353) 5'-gCT 3'	86(353) 5'-gCT 3'	185(650) 5'-CgA 3'	185(650) 5'-Cgg 3'	170(604) 5'-gAC 3'	170(604) 5'-gAC 3'	48(240) 5'-gCg 3'	45(229) 5'-CCA 3'	81(338) 5'-TgC 3'
	67(296) 5'-ggT 3'	55(260) 5'-gCg 3'	87(357) 5'-CgA 3'	87(357) 5'-CgT 3'	185(650) 5'-CgA 3'		185(650) 5'-CCg 3'				56(263) 5'-CAA 3'	83(343) 5'-gTC 3'
	71(308) 5'-ggA 3'	55(260) 5'-ggg 3'		87(357) 5'-CgA 3'							74(318) 5'-AAg 3'	83(343) 5'-gTg 3'
	81(338) 5'-TgC 3'										74(318) 5'-AAA 3'	127(477) 5'-TTC 3'
											86(354) 5'-Agg 3'	
											167(595) 5'-ACA 3'	
											170(604) 5'-gAT 3'	
											176(622) 5'-CTA 3'	
Well No.	13	14	15	16	17	18	19	20	21	22	23	24



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Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	105	180	170	200	110	135	115	100	85	190	135	145
PCR product	130		225	230	165	175	195		160		190	175
	155		250		255		225				235	200
	180											
	240											
Length of int.	430	430	430	430	515	515	430	430	430	430	430	430
pos. control ¹												
5'-primer(s) ²	20(154) 5'-ACA 3'	9(121) 5'-TgC 3'	116(442) 5'-TgA 3'	24(166) 5'-gCC 3'	99(391) 5'-CAA 3'	10(125) 5'-CCg 3'	26(173) 5'-TTA 3'	13(134) 5'-ggC 3'	37(205) 5'-AgA 3'	26(173) 5'-TTA 3'	34(197) 5'-CCA 3'	34(196) 5'-ACT 3'
	37(207) 5'-TAA 3'	9(122) 5'-gTT 3'	123(464) 5'-CTT 3'	30(184) 5'-gAC 3'	129(481) 5'-AAA 3'	24(166) 5'-gCA 3'			62(282) 5'-AAg 3'	102(400) 5'-TCT 3'	52(251) 5'-gCT 3'	39(211) 5'-CAT 3'
	48(239) 5'-CCA 3'		141(517) 5'-CTA 3'	30(184) 5'-gAC 3'	145(530) 5'-CAT 3'						102(400) 5'-TCT 3'	41(217) 5'-TCC 3'
	140(514) 5'-CAA 3'		146(533) 5'-CCA 3'	31(187) 5'-ACg 3'	147(535) 5'-CCT 3'							52(251) 5'-gCT 3'
				36(204) 5'-gAC 3'								
3'-primer(s) ³	86(353) 5'-gCT 3'	55(260) 5'-gCg 3'	185(650) 5'-CgA 3'	86(353) 5'-gCT 3'	170(604) 5'-gAC 3'	55(260) 5'-gCg 3'	51(248) 5'-gCA 3'	32(191) 5'-TAC 3'	77(326) 5'-CCg 3'	71(308) 5'-ggC 3'	86(353) 5'-gCT 3'	86(353) 5'-gCT 3'
	161(577) 5'-CAT 3'	55(260) 5'-gCg 3'				55(260) 5'-gCg 3'	77(325) 5'-CgC 3'			79(332) 5'-TgT 3'	130(484) 5'-CCA 3'	
	170(604) 5'-gAT 3'						83(343) 5'-gTC 3'			150(546) 5'-CCC 3'	150(544) 5'-gTC 3'	
	182(641) 5'-ggC 3'						88(359) 5'-TgA 3'				167(596) 5'-CAA 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.	180	170	105	180	135	80	175	160	90	115	175	145
PCR product	230	225		230	175	165	250	220	135	175		
			190		210	220		270	170			
			235						230			
Length of int.	430	430	430	430	430	430	430	430	430	430	430	430
pos. control ¹												
5'-primer(s) ²	23(164) 5'-gCA 3'	26(173) 5'-TTA 3'	26(173) 5'-TCT 3'	26(173) 5'-TCT 3'	27(175) 5'-ATA 3'	27(175) 5'-ATA 3'	102(400) 5'-TCT 3'	10(126) 5'-CAT 3'	23(163) 5'-AgA 3'	140(514) 5'-CAA 3'	140(516) 5'-ACC 3'	55(260) 5'-gCC 3'
	24(166) 5'-gCC 3'				34(196) 5'-ACT 3'	41(219) 5'-gAg 3'		26(173) 5'-TTT 3'	44(226) 5'-ACA 3'			
	39(211) 5'-CAT 3'				38(209) 5'-CgA 3'	47(235) 5'-TgA 3'		47(235) 5'-TgC 3'	55(259) 5'-g.C 3'			
	41(219) 5'-gAg 3'				44(227) 5'-CgC 3'	48(239) 5'-TCC 3'		48(239) 5'-TCA 3'	70(306) 5'-AgC 3'			
					55(259) 5'-g.C 3'	74(316) 5'-CgA 3'						
3'-primer(s) ³	86(353) 5'-gCT 3'	70(304) 5'-CCC 3'	48(238) 5'-CCA 3'	71(307) 5'-ggC 3'	86(353) 5'-gCT 3'	86(353) 5'-gCT 3'	142(520) 5'-AAT 3'	86(353) 5'-gCT 3'	86(353) 5'-gCT 3'	165(589) 5'-ggT 3'	185(650) 5'-CgA 3'	87(355) 5'-gAC 3'
		71(308) 5'-ggC 3'	56(263) 5'-CAA 3'	73(314) 5'-CCT 3'			146(532) 5'-ggC 3'			167(595) 5'-ACA 3'		88(358) 5'-gCC 3'
		71(308) 5'-ggA 3'	61(278) 5'-TCT 3'	76(324) 5'-gTT 3'			150(546) 5'-CCC 3'			184(647) 5'-Tgg 3'		93(374) 5'-gCA 3'
		88(359) 5'-TgA 3'	76(324) 5'-gTT 3'	87(356) 5'-ggg 3'			172(611) 5'-AgA 3'					
		89(362) 5'-TCA 3'	90(365) 5'-AgT 3'	89(361) 5'-CgC 3'								
Well No.	37	38	39	40	41	42	43	44	45	46	47	48



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Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	140	105	105	80	125	95	155	155	100	155	100	185
			165		190	220			240			
			220									
Length of int. ntrol ¹	430	515	430	430	430	430	430	430	515	430	430	430
er(s) ²	140(514) 5'-CAA 3'	140(514) 5'-CAA 3'	26(173) 5'-TCT 3'	32(192) 5'-T 3'	37(205) 5'-AgA 3'	8(119) 5'-CgC 3'	13(134) 5'-ggC 3'	10(125) 5'-CCg 3'	104(406) 5'-CAC 3'	13(134) 5'-ggC 3'	26(173) 5'-TTA 3'	9(122) 5'-gTT 3'
			135(500) 5'-TgA 3'	37(205) 5'-Agg 3'	37(205) 5'-Agg 3'	13(133) 5'-AgA 3'		16(142) 5'-gCC 3'	112(430) 5'-ACT 3'			
				37(207) 5'-TAA 3'	48(239) 5'-CCC 3'	16(142) 5'-gCC 3'		29(182) 5'-CAA 3'	151(547) 5'-ACA 3'			
				44(226) 5'-ACA 3'	48(239) 5'-TCA 3'	125(470) 5'-Agg 3'			151(547) 5'-ACA 3'			
				74(316) 5'-CgA 3'	58(268) 5'-ACT 3'	167(595) 5'-AgA 3'						
er(s) ³	170(604) 5'-gAA 3'	161(577) 5'-CAT 3'	48(238) 5'-Cg 3'	86(353) 5'-gCT 3'	86(353) 5'-gCT 3'	55(260) 5'-gCg 3'	52(250) 5'-CgC 3'	66(294) 5'-ACT 3'	170(604) 5'-gAC 3'	52(250) 5'-CgC 3'	45(230) 5'-CCC 3'	57(266) 5'-Cgg 3'
	174(617) 5'-CgC 3'	172(611) 5'-AgC 3'	48(238) 5'-CCA 3'			185(650) 5'-CgA 3'	64(287) 5'-TCC 3'			60(274) 5'-gTA 3'	48(240) 5'-gCg 3'	
	177(625) 5'-gTT 3'	177(625) 5'-gTT 3'	55(260) 5'-gCg 3'									
	184(647) 5'-Tgg 3'	179(632) 5'-ggT 3'	64(286) 5'-CTA 3'									
			71(307) 5'-ggC 3'									
			86(354) 5'-Agg 3'									
			175(619) 5'-CAT 3'									
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63
Length of spec. PCR product	115	175	160
	155		
	255		
Length of int. pos. control ¹	430	430	430
5'-primer(s) ²	28(179) 5'-gAC 3'	102(400) 5'-TCT 3'	1 st I 5'-... 3'
	99(391) 5'-CAA 3'		
	145(530) 5'-CAA 3'		
3'-primer(s) ³	66(294) 5'-ATg 3'	146(532) 5'-ggT 3'	1 st I 5'-CCT 3'
	170(604) 5'-gAC 3'	146(532) 5'-ggC 3'	
Well No.	61	62	63

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.



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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.



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CELL LINE VALIDATION SHEET															
DQB1*03 SSP subtyping kit ²															
				Well											
				1	2	3	4	5	6	7	8	9	10	11	12
				202351901	202351902	202351903	202351904	202351905	202351906	202351907	202351908	202351909	202351910	202351911	202351912
				202351913	202351914	202351915	202351916	202351917	202351918	202351919	202351920	202351921	202351922	202351923	202351924
				202351925	202351926	202351927	202351928	202351929	202351930	202351931	202351932	202351933	202351934	202351935	202351936
				202351937	202351938	202351939	202351940	202351941	202351942	202351943	202351944	202351945	202351946	202351947	202351948
				202351949	202351950	202351951	202351952	202351953	202351954	202351955	202351956	202351957	202351958	202351959	202351960
				202351961	202351962	202351963	202351964	202351965	202351966	202351967	202351968	202351969	202351970	202351971	202351972
				202351973	202351974	202351975	202351976	202351977	202351978	202351979	202351980	202351981	202351982	202351983	202351984
				202351985	202351986	202351987	202351988	202351989	202351990	202351991	202351992	202351993	202351994	202351995	202351996
				202351997	202351998	202351999	202352000	202352001	202352002	202352003	202352004	202352005	202352006	202352007	202352008
				202352009	202352010	202352011	202352012	202352013	202352014	202352015	202352016	202352017	202352018	202352019	202352020
				202352021	202352022	202352023	202352024	202352025	202352026	202352027	202352028	202352029	202352030	202352031	202352032
				202352033	202352034	202352035	202352036	202352037	202352038	202352039	202352040	202352041	202352042	202352043	202352044
				202352045	202352046	202352047	202352048	202352049	202352050	202352051	202352052	202352053	202352054	202352055	202352056
				202352057	202352058	202352059	202352060	202352061	202352062	202352063	202352064	202352065	202352066	202352067	202352068
				202352069	202352070	202352071	202352072	202352073	202352074	202352075	202352076	202352077	202352078	202352079	202352080
				202352081	202352082	202352083	202352084	202352085	202352086	202352087	202352088	202352089	202352090	202352091	202352092
				202352093	202352094	202352095	202352096	202352097	202352098	202352099	202352100	202352101	202352102	202352103	202352104
				202352105	202352106	202352107	202352108	202352109	202352110	202352111	202352112	202352113	202352114	202352115	202352116
				202352117	202352118	202352119	202352120	202352121	202352122	202352123	202352124	202352125	202352126	202352127	202352128
				202352129	202352130	202352131	202352132	202352133	202352134	202352135	202352136	202352137	202352138	202352139	202352140
				202352141	202352142	202352143	202352144	202352145	202352146	202352147	202352148	202352149	202352150	202352151	202352152
				202352153	202352154	202352155	202352156	202352157	202352158	202352159	202352160	202352161	202352162	202352163	202352164
				202352165	202352166	202352167	202352168	202352169	202352170	202352171	202352172	202352173	202352174	202352175	202352176
				202352177	202352178	202352179	202352180	202352181	202352182	202352183	202352184	202352185	202352186	202352187	202352188
				202352189	202352190	202352191	202352192	202352193	202352194	202352195	202352196	202352197	202352198	202352199	202352200
				202352201	202352202	202352203	202352204	202352205	202352206	202352207	202352208	202352209	202352210	202352211	202352212
				202352213	202352214	202352215	202352216	202352217	202352218	202352219	202352220	202352221	202352222	202352223	202352224
				202352225	202352226	202352227	202352228	202352229	202352230	202352231	202352232	202352233	202352234	202352235	202352236
				202352237	202352238	202352239	202352240	202352241	202352242	202352243	202352244	202352245	202352246	202352247	202352248
				202352249	202352250	202352251	202352252	202352253	202352254	202352255	202352256	202352257	202352258	202352259	202352260
				202352261	202352262	202352263	202352264	202352265	202352266	202352267	202352268	202352269	202352270	202352271	202352272
				202352273	202352274	202352275	202352276	202352277	202352278	202352279	202352280	202352281	202352282	202352283	202352284
				202352285	202352286	202352287	202352288	202352289	202352290	202352291	202352292	202352293	202352294	202352295	202352296
				202352297	202352298	202352299	202352300	202352301	202352302	202352303	202352304	202352305	202352306	202352307	202352308
				202352309	202352310	202352311	202352312	202352313	202352314	202352315	202352316	202352317	202352318	202352319	202352320
				202352321	202352322	202352323	202352324	202352325	202352326	202352327	202352328	202352329	202352330	202352331	202352332
				202352333	202352334	202352335	202352336	202352337	202352338	202352339	202352340	202352341	202352342	202352343	202352344
				202352345	202352346	202352347	202352348	202352349	202352350	202352351	202352352	202352353	202352354	202352355	202352356
				202352357	202352358	202352359	202352360	202352361	202352362	202352363	202352364	202352365	202352366	202352367	202352368
				202352369	202352370	202352371	202352372	202352373	202352374	202352375	202352376	202352377	202352378	202352379	202352380
				202352381	202352382	202352383	202352384	202352385	202352386	202352387	202352388	202352389	202352390	202352391	202352392
				202352393	202352394	202352395	202352396	202352397	202352398	202352399	202352400	202352401	202352402	202352403	202352404
				202352405	202352406	202352407	202352408	202352409	202352410	202352411	202352412	202352413	202352414	202352415	202352416
				202352417	202352418	202352419	202352420	202352421	202352422	202352423	202352424	202352425	202352426	202352427	202352428
				202352429	202352430	202352431	202352432	202352433	202352434	202352435	202352436	202352437	202352438	202352439	202352440
				202352441	202352442	202352443	202352444	202352445	202352446	202352447	202352448	202352449	202352450	202352451	202352452
				202352453	202352454	202352455	202352456	202352457	202352458	202352459	202352460	202352461	202352462	202352463	202352464
				202352465	202352466	202352467	202352468	202352469	202352470	202352471	202352472	202352473	202352474	202352475	202352476
				202352477	202352478	202352479	202352480	202352481	202352482	202352483	202352484	202352485	202352486	202352487	202352488
				202352489	202352490	202352491	202352492	202352493	202352494	202352495	202352496	202352497	202352498	202352499	202352500
				202352501	202352502	202352503	202352504	202352505	202352506	202352507	202352508	202352509	202352510	202352511	202352512
				202352513	202352514	202352515	202352516	202352517	202352518	202352519	202352520	202352521	202352522	202352523	202352524
				202352525	202352526	202352527	202352528	202352529	202352530	202352531	202352532	202352533	202352534	202352535	202352536
				202352537	202352538	202352539	202352540	202352541	2023525						

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Lot-specific information

CELL LINE VALIDATION SHEET																																	
DQB1*03 SSP subtyping kit ²																																	
					Production No.	Well																											
						17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32												
						202351917	202351918	202351919	202351920	202351921	202351922	202351923	202351924	202351925	202351926	202351927	202351928	202351929	202351930	202351931	202351932												
	IHWC cell line ¹		DQB1																														
1	9001	SA	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707	*06:01	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011	E4181324	*06:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275	GU373	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009	KAS011	*05:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353	SM	*03:02	*06:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	9020	QBL	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025	DEU	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*03:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*04:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*03:03			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*04:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB	*03:03			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540	*02:01	*06:03		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	9257	32367	*06:02	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038	BM16	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005	*06:04			-	-	-	-	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064	AMALA	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	9056	KOSE	*05:03	*06:04		-	-	-	-	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124	IHL	*05:03	*06:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035	JBUSH	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049	IBW9	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191	CH1007	*04:01	*05:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320	BEL5GB	*02:02	*03:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH	*04:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019	DUCAF	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297	HAG	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098	MT14B	*03:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302	SSTO	*03:05			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17	*03:02			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065	HHKB	*06:03			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099	LZL	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-												



101.214-24/06 – including *Taq* polymerase
101.214-24u/06u – without *Taq* polymerase

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Lot No.: **6S3**

Lot-specific information

CELL LINE VALIDATION SHEET																								
DQB1*03 SSP subtyping kit ²																								
										Well														
										49	50	51	52	53	54									
										55	56	57	58	59	60									
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101.214-24/06 – including *Taq* polymerase
101.214-24u/06u – without *Taq* polymerase

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Lot No.: 6S3

Lot-specific information

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.

²The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 7 to 10, 13, 17, 20, 23 to 46, 48 to 56, 58 and 60 to 63 were available. The specificities of the primers in primer solutions 7, 9, 10, 23, 25 to 28, 35, 38, 39, 52 to 54, 60 and 61 were tested by separately adding additional 5'-primers and 3'-primers accordingly. In primer solutions 8, 17, 20, 29, 30, 33, 36, 37, 41, 42, 44, 45, 56 and 63 it was only possible to test the 3'-primers, the 5'-primers were not possible to be tested. In primer solutions 13, 24, 31, 32, 34, 40, 43, 46, 48 to 51, 55, 58 and 62 it was only possible to test the 5'-primers, the 3'-primers were not possible to be tested. In primer solutions 1 to 4, 7, 9 to 12, 14 to 16, 19, 23, 25, 35, 38, 39 and 59 one or more of the 3'-primers were not possible to be tested, and in primer solution 6, 16, 25 to 28, 35, 52 to 54, 57 and 61 one or more of the 5'-primers were not possible to be tested.



101.214-24/06 – including *Taq* polymerase
101.214-24u/06u – without *Taq* polymerase

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Lot No.: **6S3**

Lot-specific information

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Fax: +46-8-717 88 18

E-mail: orders-se@caredx.com

Web page: www.caredx.com

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