HISTO TYPE Celiac Disease, Lot: 619S1

Hit table

Allele database: allele marsh HLADB_3.22.0

Allele	Sero.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*03:01:01:01-03:01:03/03:01:05-03:07/03:09-03:41:02/03:43-03:48/03:50-03:64/03:66-03:75/03:77-03:83/03:85-03:86/03:88-03:91/03:93-03:94/03:96-03:110/03:112-03:124, DRB3*01:14	DR17(3), -, DR18(3), DR3, Null	1																							
*03:08/03:65, 11:07/11:53/11:103:01-11:103:02/11:105/11:107/11:125/11:136/11:173	-, DR11(5)	1			4																				
*03:49	-	1	2																						
*03:95, 14:104/14:111	-	w																							
*04:01:01-04:05:10/04:05:13-04:05:16/04:05:18-04:62/04:64-04:109/04:111-04:160/04:162-04:202, 08:38, 14:161	DR4, -, Null		2																						
*04:05:11/04:05:17	-		w																						
*07:01:01:01-07:01:01:02/07:01:03-07:01:18/07:03-07:21/07:23-07:66	DR7, -, Null			3																					
*07:01:02	DR7			w																					
*11:01:01-11:06:03/11:08:01-11:11:01/11:11:03-11:21/11:23:01-11:29:02/11:32/11:34/11:36-11:37:02/11:39-11:51/11:54:01-11:64/11:66/11:68-11:70/11:72-11:95/11:97-11:101/11:104/11:106/11:108-11:124/11:126-11:129/11:131-11:135/11:137-11:172/11:174/11:176-11:191/11:194	DR11(5), -, DR11(5)/DR13 (6), Null				4																				
*11:31/11:33/11:35/11:52/11:65:01-11:65:02/11:96/11:130	-, DR11(5)				w																				
*11:102:01-11:102:02/11:175	-		2		4																				
*02:01:01-02:01:06/02:01:08-02:01:20/02:01:22-02:01:23/02:04/02:53Q/02:63	DQ2, -					5	6																		
*02:01:07	-					5																			
*02:01:21	-					5	w																		
*02:02:01:01-02:02:02/02:10-02:12/02:62/02:64	DQ2, -						6	7																	
*02:03	DQ2							7	8																
*02:05/02:13/02:15-02:16/02:18N-02:26/02:28-02:32/02:34-02:47/02:50-02:52	-, Null					?	6	?																	
*02:06	-						6	w																	
*02:07:01-02:09/02:27/02:48/02:57/02:59	-					?	6																		
*02:14:01-02:14:02	-					?	w																		
*02:17	-					?		?																	
*02:33/02:49	-					?	w	?																	
*02:54-02:56/02:58N/02:60-02:61	-, Null					?	6	7																	
*03:01:01:01-03:01:01:03/03:01:03-03:01:06/03:01:08-03:01:24/03:01:26/03:01:29-03:01:31/03:16/03:19/03:21-03:22/03:24/03:27-03:29/03:35-03:36/03:42/03:46-03:47/03:49-03:51/03:92-03:94/03:114-03:116/03:164-03:165/03:169/03:182/03:191/03:196-03:198/03:206	DQ7(3), -									9	10	11				15									
*03:01:02/03:01:07/03:73	DQ7(3), -									9	10	11													
*03:01:25/03:01:27-03:01:28/03:44/03:48/03:52-03:57/03:59-03:60/03:71/03:74/03:76-03:78/03:82-03:84N/03:101-03:103/03:108-03:109/03:119-03:122/03:127-03:131/03:134-03:135/03:139-03:140/03:143-03:144/03:147-03:148/03:150-03:152/03:154/03:157-03:160/03:163/03:166-03:167/03:170-03:173/03:188/03:192-03:193/03:201-03:202/03:208	-, Null									9	10	?				15									
*03:02:01-03:02:02/03:02:04/03:02:06-03:02:09/03:02:11-03:02:13/03:02:15-03:02:17/03:05:03-03:05:04/03:32/03:45/03:85/03:190	DQ8(3), -												12	13	14	15									
*03:02:03/03:05:01-03:05:02/03:181	DQ8(3), -												12		14										
*03:02:05/03:07	-												12	13		15									
*03:02:10	-												12		14	15									
*03:02:14	-												12	w	14	15									
*03:02:18-03:02:19	-											11	12	13	14	15									
*03:03:02:01-03:03:02:04/03:03:04-03:03:13/03:30-03:31/03:33-03:34/03:38-03:39/03:41/03:43/03:79/03:86-03:89/03:91Q/03:95N-03:99Q/03:117/03:168/03:180/03:200	DQ9(3), -, Null														14	15									
*03:03:03/03:06/03:25/03:72/03:100, 04:01:01-04:02:01/04:02:03-04:02:08/04:02:10-04:07/04:10/04:12-04:27/04:30	DQ9(3), DQ3, -, DQ4, Null														14										
*03:04:01	DQ7(3)									9	10	11	12	13		15	16								
*03:04:02	-									9	10	11	12	13	14	15	16								
*03:08	-												12	13	14										
*03:09	-									9	10					15									
*03:10:01-03:10:02	DQ8(3), -										10	11			14	15									
*03:11/03:18/03:37/03:62-03:63/03:66N-03:68/03:81/03:106/03:125/03:146/03:174-03:175/03:178/03:189/03:203-03:205/03:210-03:211/03:213N-03:215	-, Null											?	12	13	14	15									
*03:12	-										10	?			14	15									
*03:13	-											?				15									
*03:14:01	-										10	?	12	13	w	15	16								
*03:14:02	-										10	?	12	13	14	15	16								
*03:15/03:17:01/03:26/03:40/03:104-03:105/03:110-03:111/03:123-03:124/03:126/03:136/03:141/03:145/03:149/03:155/03:177/03:209/03:212	-											?			14	15									
*03:17:02/03:20/03:65/03:112/03:137/03:156	-											?			14										
*03:23:01	-											?													
*03:23:02	-											11			14	15									
*03:58/03:118N	-, Null									9	10	?				w									
*03:61/03:132	-											?	12		14										
*03:64	-											?	12	13	w	15									
*03:69/03:142/03:207	-									9		?				15									
*03:70/03:179	-										10	?	12	13	14	15									
*03:75/03:162/03:194	-									9	10	?													
*03:80	-									9	10	?	12	13		15	16								
*03:90N	Null															15									
*03:107	-											?	12	13	14	w									
*03:113	-									9		11				15									
*03:133/03:187	-									w	10	?				15									
*03:138	-											?	12	13	14	15	16								
*03:153/03:161	-											?	w	13	14	15									
*03:176	-											?			w	15									
*03:183	-										10	?			w										
*03:184	-									9		?	12	13		15									
*03:185	-											?		13		15									
*03:186	-									w	10	11				15									
*03:195	-										10				14	15									
*03:199	-												12	13	w	15									
*04:02:02	-								8						14										
*04:02:09/04:08/04:28-04:29/04:31-04:32	-											11			14										
*05:01:01:01-05:01:17/05:01:19/05:01:21-05:02:12/05:03:01:01-05:03:09/05:03:11-05:03:16/05:04-05:33/05:35-05:43/05:45-05:50/05:52-05:71/05:73-05:90N/05:96/05:102-05:108, 06:01:01-06:02:23/06:02:25-06:03:16/06:03:18/06:03:20-06:04:07/06:04:09-06:14:02/06:15:01-06:22:03/06:24-06:32:01/06:33-06:57/06:59-06:66/06:68-06:72/06:74-06:89/06:91-06:121/06:123-06:144N/06:146:01/06:147/06:149-06:150/06:152-06:161/06:163-06:166/06:185-06:189	DQ5(1), -, Null, DQ6(1), DQ1																	17							
*05:01:18/05:03:10/05:34/05:44/05:72, 06:03:17/06:73	-																	w							
*05:01:20/05:02:13/05:03:17/05:91-05:92/05:94-05:95/05:97-05:101/05:109, 06:02:24/06:03:19/06:14:03/06:32:02/06:146:02/06:168/06:170/06:172-06:173/06:175-06:184/06:190/06:192-06:197	-, Null											11						17							
*05:93, 06:191	-											11						w							
*06:04:08	-															15		17							
*06:58/06:122/06:148	-										10							17							
*06:145	-									9								17							
*06:169/06:171/06:174	-											11													
*02:01	-																		18						
*03:01:01/03:01:03-03:03:02	-																			19					
*05:01:01:01-05:01:01:02	-																				20				
*05:01:02	-																				?				
*05:02	-																					21		23	
*05:03/05:06-05:07	-																				20		22		
																					?	21		?	
*05:05:01:01-05:05:01:03/05:08-05:11	-																							23	
Contamination Control																									24
Allele	Sero.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

HLA DRB1 – DQA1 – DQB1 associations:	Reaction pattern:	Susceptibility to Celiac Disease:
DRB1*03 - DQA1*05:01 - DQB1*02:01	1, 5, 6, 20	high → very high
DRB1*04 - DQA1*03:01 - DQB1*03:02	2, 12, 13, 14, 15, 19	high →
DRB1*07 - DQA1*02:01 - DQB1*02:02 DRB1*11 - DQA1*05:05 - DQB1*03:01	3, 4, 6, 7, 9, 10, 11, (15), 23	high
DRB1*07 - DQA1*02:01 - DQB1*02:02	3, 6, 7, 18	low

In case of a HLA-DQB1*02 homozygous sample, the risk of CD development is 5 times higher than by a DQB1* 02 heterozygous sample

Tube	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5'-primer(s)	13(125)	33(184)	14(127)	13(125)	135(500)	21(159)	135(500)	21(159)	45(230)	13(134)	118(450)	57(266)	38(210)	49(242)	38(210)	26(173)	14(136)	25(143)	26(146)	107(389)	21(131)	107(389)	107(389)	
	5'-gTC 3'	5'-TC 3'	5'-ATA 3'	5'-gTC 3'	5'-TgA 3'	5'-ACA 3'	5'-Tgg 3'	5'-ACA 3'	5'-ggA 3'	5'-ggC 3'	5'-TCA 3'	5'-TgC 3'	5'-gCA 3'	5'-ggC 3'	5'-gCA 3'	5'-TTA 3'	5'-gCC 3'	5'-gTT 3'	5'-CAg 3'	5'-CAT 3'	5'-TCT 3'	5'-CAT 3'	5'-CAT 3'	
				16(133)													25(171)				59(245)			
				5'-gTC 3'													5'-CgT 3'				5'-CCg 3'			
3'-primer(s)	73(305)	86(344)	47(227)	58(260)	191(669)	57(266)	168(599)	57(266)	66(294)	66(294)	167(596)	84(346)	57(266)	84(346)	70(304)	57(266)	87(355)	47(208)	55(232)	172(585)	75(293)	160(547)	172(585)	
	5'-ggC 3'	5'-CCA 3'	5'-ggT 3'	5'-CCT 3'	5'-gAT 3'	5'-Cgg 3'	5'-CTC 3'	5'-CgT 3'	5'-ACT 3'	5'-ACT 3'	5'-CAT 3'	5'-CTg 3'	5'-Cgg 3'	5'-CTg 3'	5'-CCT 3'	5'-Cgg 3'	5'-gAA 3'	5'-CTT 3'	5'-TCT 3'	5'-Agg 3'	5'-gAC 3'	5'-AgA 3'	5'-AgT 3'	
	73(305)	86(344)															87(355)							
	5'-ggC 3'	5'-CAC 3'															5'-gTA 3'							