

DR low resolution SSP typing

Amplification patterns of the DRB1*01:01 to DRB1*10:06 alleles

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*11:01:01-11:01:06, 11:01:08-11:01:17, 11:04:01-11:04:11, 11:06:01-11:06:03, 11:09-11:10:02, 11:12:01-11:12:02, 11:15, 11:24, 11:27:01-11:29, 11:32-11:33, 11:35, 11:38-11:39, 11:43-11:44, 11:46:01-11:47, 11:49:01-11:49:02, 11:51, 11:54:01-11:54:02, 11:58:01-11:58:02, 11:60-11:62, 11:66, 11:72, 11:74:01-11:75, 11:77-11:78, 11:81, 11:84:01-11:84:03, 11:90-11:92, 11:94-11:95, 11:97, 11:99-11:102:02, 11:106, 11:108-11:117, 11:120-11:121, 11:123, 11:126, 11:128-11:129, 11:133-11:134, 11:137, 11:140-11:141, 11:144, 11:146-11:147	DR11, -														13		15	16
*11:01:07, 11:30, 11:37:01-11:37:02, 11:50, 11:56, 11:88, 11:145	DR11, -														13		15	16
*11:01:18-11:01:19, 11:08:01-11:08:02, 11:18-11:19:03, 11:42, 11:57, 11:130	DR11, -														13		15	
*11:02:01-11:03, 11:11:01-11:11:02, 11:14:01-11:14:02, 11:21, 11:36, 11:63, 11:65:01-11:65:02, 11:68, 11:70, 11:76, 11:85-11:86, 11:93, 11:124, 11:127, 11:138-11:139	DR11, -						6								13		15	16
*11:05	DR11														13			16
*11:07, 11:53, 11:103, 11:105, 11:125	DR11, -					5					11				13			
*11:13:01-11:13:02	DR11							w							13			
*11:16, 11:20, 11:40, 11:118, 11:122	DR11/D R13, -						6								13		15	16
*11:17, 11:52	DR14, DR11														13			
*11:22, 11:104	-														13			
*11:23:01-11:23:02	DR11, -														13		15	16
*11:25	DR11														13		15	16
*11:26, 11:34	DR11							7							13			
*11:31	DR11														13		15	
*11:41, 11:48	DR11						6								13		15	16
Well No.	DR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Well No.	DR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
DRB1 allele ²	ser ³																	
*11:45, 11:64	DR11, -													13		15		
*11:55	DR11													13			16	

[illegible]

*13:05:01-13:05:02, 13:11:01-13:11:02, 13:14:01-13:14:03, 13:42, 13:46, 13:50:01-13:50:02, 13:62, 13:100, 13:132, 13:136, 13:150	DR13, DR6, DR11, -															15	16
*13:06, 13:25, 13:56, 13:77, 13:82, 13:110, 13:157, 13:163	DR13, DR11, DR6, -															15	
*13:07:01-13:07:02	DR13															15	16
*13:08	DR13					6										15	16
*13:09	DR13																16
*13:10	DR13					6										15	
*13:12:01-13:12:03, 13:58, 13:118, 13:134, 13:161	DR13, -															15	
*13:13	DR13															15	
*13:15, 13:57, 13:104	DR13, -					6	7									15	16
*13:17	DR13					6											16
*13:18	DR13															15	16
*13:19, 13:53	DR13					6	7									15	16
*13:21:01-13:21:02	DR13/D R11															15	16
*13:22-13:24, 13:54, 13:97:02, 13:162	DR13, DR11, DR14, -					6										15	16
*13:26:01-13:26:02	DR14, -						7									15	16
*13:27, 13:41, 13:71	DR13					6					12					15	16
*13:30	-															15	
*13:32, 13:65	DR13					6										15	16
*13:37	DR13					6										15	
*13:38, 13:48	DR13					6										15	16
*13:43	DR13					6										15	16
*13:44, 13:86	-						7										
*13:45	DR13					6										15	16
*13:47	-															15	16
*13:49, 13:108	DR6, -															15	16
*13:55	-															15	16
*13:60	DR6															15	
*13:66:01-13:66:02	DR13, -					6										15	
*13:67, 13:103, 13:160	DR13, -															15	16
Well No.	DR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Well No.	DR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DRB1 allele ²	ser ³																
*13:70, 13:149	DR13, -					6										15	16
*13:85	-					6	7									15	
*13:93, 13:139	-					6										15	16
*13:116	-					6											16
*13:119	-															15	
*13:120	-					6										15	
*13:122	-					6										15	
*13:129	-					6						12					16

*13:137N	-						6									15	
*13:144	-						6									15	16
*13:146	-																16
*13:154	-															15	
*13:156	-															15	
*13:158	-															15	16
*13:159	-						6									15	16
*13:164	-															15	16
*14:01:01-14:01:02, 14:01:04, 14:04, 14:07:01-14:07:02, 14:10, 14:26, 14:28, 14:31, 14:38-14:39, 14:50, 14:54:01, 14:55, 14:60-14:62, 14:70-14:71, 14:75, 14:86-14:88, 14:90, 14:99, 14:101, 14:110, 14:112-14:114, 14:117-14:118, 14:120, 14:122, 14:124-14:125, 14:129, 14:131, 14:139-14:140, 14:142	DR14, DR1404/DR14, -																
*14:01:03, 14:08, 14:23:02, 14:34, 14:54:02, 14:92N, 14:97, 14:130, 14:133	DR14, Null, -																
*14:02, 14:06:01-14:06:02	DR14							7									
*14:03:01-14:03:02, 14:40, 14:67, 14:77, 14:102, 14:115, 14:135	DR1403/DR14, DR6, -							7								15	
*14:05:01-14:05:04, 14:14, 14:23:01, 14:23:03-14:23:04, 14:36, 14:43-14:45, 14:56, 14:59, 14:91, 14:96, 14:100, 14:103, 14:123, 14:127:01-14:127:02	DR14, -																
*14:09, 14:29, 14:47-14:48, 14:51, 14:80, 14:83, 14:106, 14:108, 14:121	DR14, -							7									
*14:11	DR14										10						
*14:12:01-14:12:02	DR14, -							7								15	
Well No.	DR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Well No.	DR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DRB1 allele ²	ser ³																
*14:13	DR14							7									
*14:15	DR8										10						16
*14:16	DR6							6								15	16
*14:17, 14:30, 14:33	DR6							7									
*14:18, 14:81	DR14, -							7									
*14:19, 14:109	DR14, -							6	7							15	
*14:20, 14:41, 14:94	DR14, -								7								
*14:21	DR14							6	7							15	
*14:22, 14:105	DR14, -															15	16
*14:24	DR14								7								16

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*16:01:01-16:03, 16:05:01-16:05:02, 16:07-16:17, 16:19-16:24	DR16, Null, -				4												
*16:04, 16:18	DR16, -				4												
DRB3*01:01:02:01-01:15, DRB3*02:01:02:26, DRB3*02:28-02:29N, DRB3*03:01:01-03:03	DR52, Null, -																
DRB3*02:27	-														15		
DRB4*01:01:01:01-01:03:01:01, DRB4*01:03:01:03-01:08	DR53, -																
DRB4*01:03:01:02N	Null																
DRB5*01:01:01:01-01:07, DRB5*01:09-01:14, DRB5*02:02-02:06	DR51, Null, -																
DRB5*01:08N	Null																
Well No.	DR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Amplification patterns of the DRB1*01:01 to DRB1*10:06 alleles

Well ⁴																	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
175	100	110	110	165	75	135	170	150	145	145	140	160	215	175	Neg. Control		Length of spec.
	140	140	160		175		195			215		240					PCR product(s)
	155	170	225							240							
430	430	430	430	430	430	430	430	430	430	430	430	430	430	430			Length of int. pos. control ¹
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	DR	Well No.
																ser ³	DRB1 allele ²
																DR1, Null, -	*01:01:01-01:02:08, 01:04-01:38, 01:40N-01:41, 01:43-01:59
																DR103/DR1, Null	*01:03, 01:39N
																-	*01:42
17									26							DR17, DR3, Null, -	*03:01:01-01:03:01:22, 03:04:01-03:05:03, 03:09, 03:11:01, 03:13:01-03:16, 03:18-03:20, 03:22-03:23, 03:25, 03:28, 03:30, 03:33-03:34, 03:36-03:37, 03:43-03:45, 03:47-03:48, 03:50-03:52, 03:54-03:59, 03:61-03:63, 03:66-03:68N, 03:70-03:73, 03:77-03:79, 03:81, 03:83-03:84, 03:86, 03:89, 03:91, 03:93
17																DR18, DR3, -	*03:02:01-03:03, 03:27, 03:38, 03:53, 03:74, 03:88, 03:90
17																DR3, -	*03:06, 03:26, 03:31, 03:60, 03:75, 03:80, 03:82
17									26							DR3, -	*03:07, 03:21, 03:24, 03:32, 03:39-03:40, 03:49
									26							DR3, -	*03:08, 03:65
		19	20						26							DR3	*03:10
17							24		26							DR3	*03:12
17																DR3, -	*03:17, 03:35, 03:41
17									26							DR3	*03:29
																-	*03:42, 03:69, 03:87
									26							-	*03:46, 03:64
17									26		28					-	*03:76
				21		23										-	*03:92
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	DR	Well No.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	DR	Well No.
																ser ³	DRB1 allele ²

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								25	26									DR11	*11:59
					22	23												-	*11:67
18									26									-	*11:69, 11:82
									26									-	*11:73, 11:79, 11:131-11:132
									26									-	*11:80, 11:87, 11:135, 11:142
																		-	*11:83
			20						26	27								-	*11:89
			20						26									-	*11:96
									26									-	*11:98, 11:136, 11:143
																		-	*11:107
			20		22				26	27								-	*11:119
						23												DR12, Null, -	*12:01:01-12:01:05, 12:03:02-12:03:03, 12:05-12:08, 12:10-12:12, 12:14, 12:17, 12:24N-12:25, 12:28-12:30, 12:34-12:36, 12:40
						23												DR12, Null, -	*12:02:01-12:02:05, 12:13, 12:15, 12:18-12:20, 12:23, 12:26-12:27, 12:31N-12:33, 12:37
						23												DR12, -	*12:04, 12:22, 12:39
				21		23												DR12	*12:09
						23												-	*12:16:01-12:16:02
																		-	*12:21
																		-	*12:38
17								25	26									DR13, Null, -	*13:01:01-13:01:08, 13:01:10-13:02:01, 13:02:03-13:02:08, 13:16, 13:20, 13:28-13:29, 13:31, 13:34, 13:39, 13:51-13:52, 13:59, 13:61:01-13:61:02, 13:63-13:64, 13:68-13:69, 13:73-13:74, 13:78-13:80, 13:83, 13:87, 13:91-13:92, 13:96:01-13:97:01, 13:98-13:99, 13:102, 13:105-13:107, 13:109, 13:111-13:114, 13:117, 13:121, 13:123-13:128, 13:130-13:131, 13:138, 13:140-13:143, 13:145, 13:147-13:148, 13:153, 13:155
17								25										DR13, -	*13:01:09, 13:35-13:36, 13:40, 13:72, 13:76, 13:84, 13:135
17									26									DR13	*13:02:02
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			DR	Well No.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			DR	Well No.
																		ser ³	DRB1 allele ²
17							24											DR13, -	*13:03:01-13:03:06, 13:33:01-13:33:03, 13:81, 13:88-13:90, 13:94:01-13:95, 13:101, 13:115, 13:133, 13:151-13:152
17							24		26									DR13, -	*13:04, 13:75

Negative Control

17								26								-	*13:137N
17			20		22			26	27							-	*13:144
17			20					26	27							-	*13:146
17			20				24	26	27							-	*13:154
17			20		22			26	27							-	*13:156
17			20					26	27							-	*13:158
		19	20					25								-	*13:159
17			20		22		24		27							-	*13:164
														Negative Control	DR14, DR1404/ DR14, -	*14:01:01-14:01:02, 14:01:04, 14:04, 14:07:01-14:07:02, 14:10, 14:26, 14:28, 14:31, 14:38-14:39, 14:50, 14:54:01, 14:55, 14:60-14:62, 14:70- 14:71, 14:75, 14:86-14:88, 14:90, 14:99, 14:101, 14:110, 14:112- 14:114, 14:117-14:118, 14:120, 14:122, 14:124-14:125, 14:129, 14:131, 14:139-14:140, 14:142	
															DR14, Null, -	*14:01:03, 14:08, 14:23:02, 14:34, 14:54:02, 14:92N, 14:97, 14:130, 14:133	
17		19								28						DR14	*14:02, 14:06:01-14:06:02
17			20							27						DR1403/ DR14, DR6, -	*14:03:01-14:03:02, 14:40, 14:67, 14:77, 14:102, 14:115, 14:135
17		19	20							27						DR14, -	*14:05:01-14:05:04, 14:14, 14:23:01, 14:23:03-14:23:04, 14:36, 14:43- 14:45, 14:56, 14:59, 14:91, 14:96, 14:100, 14:103, 14:123, 14:127:01- 14:127:02
17		19								?	28					DR14, -	*14:09, 14:29, 14:47-14:48, 14:51, 14:80, 14:83, 14:106, 14:108, 14:121
		19	20							27						DR14	*14:11
17			20		22					27						DR14, -	*14:12:01-14:12:02
17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	32	DR
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	DR	Well No.
																ser ³	DRB1 allele ²
17		19					24				28					DR14	*14:13
			20	21	22					27						DR8	*14:15
	18	19	20					25		?						DR6	*14:16
17		19							26	?	28					DR6	*14:17, 14:30, 14:33
17		19	20							27						DR14, -	*14:18, 14:81
17		w								?	28					DR14, -	*14:19, 14:109
17		19								?						DR14, -	*14:20, 14:41, 14:94
17		w							26		28					DR14	*14:21
	18	19	20							?						DR14, -	*14:22, 14:105
17										?						DR14	*14:24

Negative Control	17	18	20						?						DR6	*14:25	
			20						27						DR14	*14:27	
		18	19	20					27						DR14	*14:32:01-14:32:02	
		18	19	20											-	*14:32:03	
		18	19	20					26	27					DR14	*14:35	
	17	18							?						DR14	*14:37	
	17			20					26	27					-	*14:42	
			19								28				DR14	*14:46	
		18	19	20					?						DR14, -	*14:49, 14:119	
			19		21				?	28					DR14	*14:52	
		18		20					26	?					DR13/14	*14:53, 14:128	
															, -		
		18	19	20					25	27					DR4/DR 6	*14:57	
		18		20						27					DR14	*14:58	
	17			20				24		27					DR6, -	*14:63, 14:85	
	17		19	20					26	27					DR14, -	*14:64, 14:134	
	17		19	20				24	26	27					DR6	*14:65	
		18	19	20						27					DR14, -	*14:68, 14:93	
		18		20						?					-	*14:69	
			19	20					26	27					-	*14:72	
	18	19	20						?					-	*14:73		
	18	19	20						?					-	*14:74		
	18	19	20						?					-	*14:76, 14:79, 14:104, 14:107, 14:111		
17			20		22		24		27					-	*14:78		
	18	19	20						27					-	*14:82		
17			20		22				27					-	*14:84		
17			20						27					-	*14:89		
17		19	20						26	27				-	*14:95		
17									?					-	*14:98		
17			20						27					-	*14:116		
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	DR	Well No.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	DR	Well No.
																ser ³	DRB1 allele ²
		19	20	21						27						-	*14:126
		19	20						26	27						-	*14:132
17			20							27						-	*14:136
	18	19	20							27						Null	*14:137N
	18	19	20			23				27						-	*14:138
										27		29				-	*14:141
																DR15, DR2, Null, -	*15:01:01:01-15:09, 15:11-15:20, 15:22-15:24, 15:26, 15:28-15:33, 15:35-15:65, 15:67-15:98
								25								DR2	*15:10
			w		22											DR2	*15:21
																-	*15:25
		19														-	*15:27, 15:34, 15:66

														Negative	DR16, Null, -	*16:01:01-16:03, 16:05:01-16:05:02, 16:07-16:17, 16:19-16:24	
			w												DR16, -	*16:04, 16:18	
										29					DR52, Null, -	DRB3*01:01:02:01-01:15, DRB3*02:01:02:26, DRB3*02:28- 02:29N, DRB3*03:01:01-03:03	
										29					-	DRB3*02:27	
											30				DR53, -	DRB4*01:01:01:01-01:03:01:01, DRB4*01:03:01:03-01:08	
	18										30				Null	DRB4*01:03:01:02N	
												31			DR51, Null, -	DRB5*01:01:01-01:07, DRB5*01:09- 01:14, DRB5*02:02-02:06	
							24						31		Null	DRB5*01:08N	
17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	32	DR