

[illegible]

DRB1*11 SSP subtyping

Amplification patterns of the DRB1*11:01 to DRB1*11:126 alleles	
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	Well ⁸																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115
PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Length of int. pos. control ¹	515	430	430	430	515	430	430	430	430	430	515	430	430	430	430	430	430	430	430	515
5'-primer(s) ²	13(125)	13(125)	58(261)	13(125)	58(260)	58(261)	58(261)	58(261)	58(261)	58(261)	13(125)	10(116)	36(196)	13(125)	37(197)	13(125)	58(260)	58(261)	13(125)	13(125)
	5'-gTC 3'	5'-ggg 3'	5'-gAg 3'	5'-gTC 3'	5'-TgA 3'	5'-gAg 3'	5'-gAg 3'	5'-gAg 3'	5'-gAg 3'	5'-gAg 3'	5'-gTC 3'	5'-gCT 3'	5'-AgA 3'	5'-gTC 3'	5'-gTT 3'	5'-gTC 3'	5'-TgA 3'	5'-gAg 3'	5'-gTC 3'	5'-gTC 3'
												23(157)	36(196)		37(197)					
												5'-ggA 3'	5'-AgA 3'		5'-gTT 3'					
												40(208)	49(233)		51(239)					
												5'-TCA 3'	5'-ggA 3'		5'-gAT 3'					
3'-primer(s) ³	58(260)	58(260)	66(286)	66(286)	70(298)	70(298)	86(344)	86(344)	73(305)	66(286)	50(238)	58(260)	58(260)	47(227)	58(260)	36(196)	73(307)	77(317)	59(265)	37(197)
	5'-CCT 3'	5'-CCT 3'	5'-gAA 3'	5'-gAT 3'	5'-CCT 3'	5'-CTC 3'	5'-CAC 3'	5'-CCA 3'	5'-ggC 3'	5'-gAg 3'	5'-CgC 3'	5'-CCT 3'	5'-CCT 3'	5'-ggT 3'	5'-CCT 3'	5'-gTC 3'	5'-Cag 3'	5'-AAT 3'	5'-gTg 3'	5'-Cgg 3'
	58(260)		66(286)	66(286)	72(303)				74(308)	73(305)	66(286)					37(199)	74(308)	77(317)	74(308)	37(197)
	5'-CCT 3'		5'-gAA 3'	5'-gAT 3'	5'-gCg 3'				5'-CCA 3'	5'-ggC 3'	5'-gAg 3'					5'-CAg 3'	5'-CCT 3'	5'-AgT 3'	5'-CCA 3'	5'-CgA 3'
	58(260)				73(307)				82(334)	73(307)	85(341)					37(199)			86(344)	38(200)
	5'-CCT 3'				5'-Cag 3'				5'-gTg 3'	5'-Cag 3'	5'-Cag 3'					5'-CAA 3'			5'-CAT 3'	5'-gCg 3'
										84(338)						38(200)				
										5'-CCT 3'						5'-gCg 3'				
																84(340)				

																5'-AAT 3'				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115
PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DRB1 allele ^{4,5}																				
*11:01:01-11:01:11, 11:01:13-11:01:16, 11:95, 11:100, 11:111- 11:112, 11:117, 11:121, 11:126	1		3		5		7													
*11:01:12	1		3		5		7													
*11:02:01-11:02:02	1			4		6		8												
*11:03	1		3			6		8												
*11:04:01-11:04:03, 11:04:05-11:04:08, 11:123	1		3		5			8												
*11:04:04	1		3		5			8												
*11:05		2	3		5		7													
*11:06:01-11:06:02	1		3		5			8			11									
*11:07	1							8	9	10								18		
*11:08:01-11:08:02	1				5		7				11									
*11:09	1		3		5		7						13							
*11:10:01-11:10:02	1		3		5		7								15					20
*11:11:01-11:11:02	1		3			6	7													
*11:12:01	1		3		5		7								15					20
*11:12:02	1		3		5		7								15					20
*11:13:01-11:13:02	1				5			8		10					15					20
*11:14:01-11:14:02	1			4		6	7													
*11:15	1		3		5		7									16				
*11:16	1			4		6		8					13							
*11:17	1				5			8		10				14	15		17			20
*11:18	1			4	5			8												
*11:19:01-11:19:03	1			4	5		7													
*11:20	1			4		6	7						13							
*11:21	1			4		6		8			11									
*11:22			3		5		7													
*11:23	1		3		5		7		9	10							17		19	
*11:24, 11:91 ⁶	1		3		5		7									16				
*11:25	1		3		5			8	9	10							17		19	
*11:26, 11:79	1				5		7			10										
*11:27:01-11:27:03	1		3		5		7											18		

Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115
PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*11:28:01-11:28:02	1		3		5		7						13							
*11:29	1		3		5		7													20
*11:30			3		5		7					12								
*11:31	1			4	5		7												19	
*11:32	1		3		5		7		9										19	
*11:33	1		3		5		7													
*11:34	1				5			8		10										
*11:35	1		3		5			8												
*11:36	1					6		8			11									
*11:37:01-11:37:02	1		3		5		7							14						
*11:38	1		3		5			8												
*11:39	1		3		5		7													
*11:40	1		3			6		8					13							
*11:41	1		3			6		8						14						
*11:42	1				5			8			11									
*11:43	1		3		5			8												
*11:44	1		3		5			8								16				20
*11:45	1			4	5		7		9	10							17		19	
*11:46:01	1		3		5			8												
*11:46:02	1		3		5			8												
*11:47	1		3		5			8			11									20
*11:48	1			4		6		8						14						
*11:49:01-11:49:02	1		3		5		7									16				20
*11:50	1		3		5			8						14		16				20
*11:51	1		3				7													
*11:52	1				5			8		10				14	15		17		19	20
*11:53	1						7										17			
*11:54:01-11:54:02	1		3		5			8									17			
*11:55	1		3		5	6		8	9	10							17		19	
*11:56	1		3		5			8						14						
*11:57	1				5			8			11									
*11:58:01-11:58:02	1		3		5			8					13							
*11:59	1		3			6		8					13							
*11:60	1		3		5			8					13							
*11:61, 11:90 ⁷	1		3		5		7					12								
*11:62	1		3		5		7													
*11:63	1		3			6		8												20
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115

PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*11:64	1				5		7		9	10	11						17		19	
*11:65:01-11:65:02	1			4		6		8												
*11:66	1		3		5		7								15					
*11:67		2	3		5			8	9	10							17			
*11:68	1					6	7				11									
*11:69	1						7													
*11:70	1			4		6		8	9										19	
*11:72	1		3		5		7													
*11:73	1			4	5		7													
*11:74:01-11:74:02	1		3		5		7			10										
*11:75	1		3		5		7				11									
*11:76	1		3			6		8								16				
*11:77	1		3		5			8	9											
*11:78	1		3		5			8												
*11:80	1		3		5		7													
*11:81	1		3		5		7													
*11:82	1						7													
*11:83	1		3		5			8					13	14						
*11:84:01-11:84:02	1		3		5			8										18		
*11:85	1		3			6		8								16				20
*11:86	1			4		6													19	
*11:87	1		3		5		7						13							
*11:88	1		3		5			8												
*11:89	1				5			8									17			
*11:92	1		3		5			8												
*11:93	1		3		5		7													
*11:94	1		3		5		7													
*11:96	1		3		5		7												19	
*11:97	1		3		5		7													
*11:98	1			4				8												
*11:99	1		3		5		7													
*11:101	1		3		5		7													
*11:102:01-11:102:02	1		3		5			8												
*11:103, 11:125	1						7		9	10								18		
*11:104			3		5			8												
*11:105	1						7		9	10										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115
PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

*11:106	1		3		5		7													
*11:107	1						7		9	10				14				18		
*11:108	1		3		5		7													
*11:109	1		3		5		7						13							
*11:110	1																			
*11:113	1		3		5			8					13							
*11:114	1		3		5		7								15	16				
*11:115	1		3		5			8					13							
*11:116	1		3		5			8												
*11:118	1			4		6		8												
*11:119	1			4	5			8	9	10							17		19	
*11:120	1		3		5		7													
*11:122	1		3			6	7						13							
*11:124	1			4		6		8										18		
*01:03, 01:39N, 04:14, 04:106, 08:40, 13:67, 13:74, 13:103																				
*01:15, 01:24, 04:38, 04:82, 04:86, 04:105:01, 04:107, 07:01:01:01- 07:01:04, 07:03-07:04, 07:06-07:19, 07:21- 07:22, 08:03:02-08:03:03, 08:14-08:15, 08:18- 08:19, 08:23, 08:25, 08:27, 08:29-08:30:03, 08:32-08:38, 08:45- 08:47, 08:49, 12:22, 15:02:01-15:02:08, 15:11, 15:14, 15:19, 15:26, 15:29-15:30, 15:38- 15:39, 15:44, 15:47, 15:58, 15:60, 15:68, 16:05:01-16:05:02, 16:07, DRB3*02:11, DRB5*01:07, DRB5*01:11, DRB5*02:03																				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115
PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

*01:23, 04:12, 04:18, 04:25, 04:36, 04:53, 04:58, 04:99, 08:04:01, 08:04:04-08:04:07, 08:06, 08:10, 08:12, 08:22, 12:01:01-12:01:04, 12:03:02, 12:05-12:12, 12:14, 12:17, 12:21, 12:24N-12:25, 12:28- 12:30, 12:34-12:35, 14:15, 14:73, 15:21, 16:15																				
*01:42, 04:02:01- 04:02:03, 04:37, 13:17, 13:114, 13:116, 14:57, 15:10																				
*03:02:01-03:03, 03:06, 03:27, 03:31, 03:41, 03:60, 03:74-03:75, 13:07:01-13:07:02, 13:26:01, 13:49, 14:02, 14:06:01-14:06:02, 14:09, 14:13, 14:18-14:19, 14:47, 14:51, 14:80- 14:81, 14:83, 14:106, 14:108, 14:121														14						
*03:04:01-03:04:02, 03:21, 03:30, 14:65																				20
*03:08, 03:65	1							8	9	10			13					18		
*03:10																			19	
*03:13:01-03:13:02, 03:79, 14:64																				
*03:17, 03:80, 14:59													14							
*03:20											11									
*03:26														14		16				20
*03:33, 03:44																16				20
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115
PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

[illegible]

*13:02:01-13:02:03, 13:02:05, 13:23:01- 13:23:02, 13:31, 13:41, 13:66:01-13:66:02, 13:73, 13:96:01-13:97:01, 13:99, 13:104, 13:123-13:124, 13:126, 13:128, 13:139				4																
*13:02:04, 13:109, 13:137N				4																
*13:03:01-13:03:06, 13:33:01-13:33:03, 13:36- 13:38, 13:65, 13:85, 13:90, 13:95, 13:101, 13:115				4										14						
*13:06				4																
*13:08, 13:19, 13:72, 13:76, 13:84				4										14						20
*13:09, 13:129																				
*13:12:01-13:12:02, 13:120, 13:122				4										14						
*13:13, 14:63, 14:67				4										14						19
*13:16				4																19
*13:18																				19
*13:20, 13:71										11										
*13:24, 13:75, 13:111																				
*13:25, 13:56										11										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115
PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*13:29											11									
*13:30, 13:82				4																
*13:32, 13:40, 13:48, 13:53, 13:70, 13:89, 13:94				4										14						
*13:34				4												16				
*13:39				4																
*13:43											11								19	
*13:45				4															19	
*13:47, 13:55, 14:25, 14:27, 14:58, 14:89														14					19	
*13:54																				
*13:57, 13:83, 13:87				4																20
*13:58				4							11			14						

*13:60									11				14				20			
*13:62													16							
*13:63																				
*13:64, 13:68	4												16							
*13:77	4																			
*13:78									11											
*13:79	4																			
*13:81	4								11				14							
*13:88									11				14							
*13:100																				
*13:106	4												16				20			
*13:107	4																20			
*13:108													14							
*13:118	4												14							
*13:119, 14:03:02									11								19			
*13:131	4																			
*13:133													14							
*13:134, 14:98									11				14							
*13:135	4												14				20			
*13:136																	16			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	175	175	65	200	85	80	125	125	85	65	155	95	70	145	60	110	90	95	180	115
PCR product(s)									115	85	200	145	105		105	255			225	
										120	255	185							260	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*14:01:01-14:01:03, 14:07:01-14:08, 14:22, 14:26, 14:32:01-14:32:02, 14:34, 14:38-14:39, 14:49, 14:54:01-14:55, 14:60, 14:62, 14:70, 14:75, 14:82, 14:87- 14:88, 14:90, 14:92N, 14:104, 14:111-14:114, 14:117-14:119, 14:122, 14:124-14:125													14				19 20			
*14:03:01, 14:69, 14:85, 14:102, 14:116									11				14				19			
*14:11	2				5		8		10						15		17			
*14:12:01-14:12:02									11				14				19			
*14:16	4												14				19 20			
*14:24													14							
*14:29									11				14							
*14:35, 14:72																	19 20			
*14:37													14				20			

*14:40											11			14				19	20	
*14:41														14		16				
*14:53																		19		
*14:74, 14:84											11			14				19	20	
*14:77											11			14		16		19		
*14:78				4										14				19		
*14:86														14				19	20	
*14:96														14					20	
*14:97														14		16		19	20	
*14:99											11			14				19	20	
*14:105														14				19	20	
*14:110														14		16		19		
*14:115											11			14				19		
*16:16					5		7													
DRB3*01:14														14		16				
DRB3*02:18							7			10		12						18		
DRB5*01:13			3		5		7													
DRB1 allele ^{4,5}																				
Well No.	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	Well No.	
135	115	120	155	110	120	85	85	100	100	85	75	155	80	85	115	150	155	110	180	Length of spec.	
175	180		250		160								290		170					PCR product(s)	
	215																				
	245																				
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.	
																				DRB1 allele ^{4,5}	
									30											*11:01:01-11:01:11, 11:01:13-11:01:16, 11:95, 11:100, 11:111- 11:112, 11:117, 11:121, 11:126	
				25					30											*11:01:12	
							28													*11:02:01-11:02:02	
							28		30											*11:03	
									30	31										*11:04:01-11:04:03, 11:04:05-11:04:08, 11:123	
				25					30	31										*11:04:04	
									30											*11:05	
			24						30	31										*11:06:01-11:06:02	
																				*11:07	
																				*11:08:01-11:08:02	
				25	26				30											*11:09	
				25	26				30											*11:10:01-11:10:02	
							27		30											*11:11:01-11:11:02	
									30											*11:12:01	
				25					30											*11:12:02	
				25	26						32									*11:13:01-11:13:02	
							27	29												*11:14:01-11:14:02	
	22								30											*11:15	
				25	26		28													*11:16	
				25	26						32									*11:17	
										31										*11:18	
								29												*11:19:01-11:19:03	
				25	26	27		29												*11:20	
			24				28													*11:21	
21				25					30											*11:22	
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									30	31										*11:25	
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
135	115	120	155	110	120	85	85	100	100	85	75	155	80	85	115	150	155	110	180	Length of spec.
175	180		250		160								290		170					PCR product(s)
	215																			
	245																			
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
				25					30											*11:28:01-11:28:02
									30											*11:29
									30											*11:30
								29					34							*11:31
									30											*11:32
	22								30											*11:33
																				*11:34
	22								30	31										*11:35
							28													*11:36
																				*11:37:01-11:37:02
		23							30	31										*11:38
			24						30											*11:39
				25	26		28		30											*11:40
							28													*11:41
										31										*11:42
			24						30	31										*11:43
									30	31										*11:44
								29												*11:45
				25	26				30	31										*11:46:01
					26				30	31										*11:46:02
			24						30	31										*11:47
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			24							31										*11:50
									30		32									*11:51
				25	26						32									*11:52
																				*11:53
									30	31										*11:54:01-11:54:02
							28		30											*11:55
										31										*11:56
			24							31										*11:57
				25					30	31										*11:58:01-11:58:02
21				25	26		28		30											*11:59
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									30											*11:61, 11:90 ⁷
					26				30											*11:62
							28		30											*11:63
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
135	115	120	155	110	120	85	85	100	100	85	75	155	80	85	115	150	155	110	180	Length of spec.

175	180		250		160								290		170					PCR product(s)			
	215																						
	245																						
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.			
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	22						28													*11:65:01-11:65:02			
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									30											*11:75			
							28		30											*11:76			
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21					26				30											*11:80			
	22		24						30											*11:81			
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.			
135	115	120	155	110	120	85	85	100	100	85	75	155	80	85	115	150	155	110	180	Length of spec.			
175	180		250		160								290		170					PCR product(s)			
	215																						
	245																						
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.			

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									30											*11:109
									30						36					*11:110
					25	26			30	31										*11:113
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				24	25				30	31										*11:115
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
135	115	120	155	110	120	85	85	100	100	85	75	155	80	85	115	150	155	110	180	Length of spec.
175	180		250		160								290		170					PCR product(s)
	215																			
	245																			
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.

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			24																	*03:17, 03:80, 14:59
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
135	115	120	155	110	120	85	85	100	100	85	75	155	80	85	115	150	155	110	180	Length of spec.
175	180		250		160								290		170					PCR product(s)
	215																			
	245																			
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
135	115	120	155	110	120	85	85	100	100	85	75	155	80	85	115	150	155	110	180	Length of spec.
175	180		250		160								290		170					PCR product(s)
	215																			
	245																			
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
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			24																	*14:86
			24																	*14:96
																				*14:97
			24																	*14:99
									31											*14:105
																				*14:110
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.