INTERPRETATION TABLE

DRB1*04 SSP subtyping

Allele-specific amplification patterns of the DRB1*04:01 to *04:89 alleles

	Well[4]																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	215	215	225	225	170	115	260	260	215	170	175	180	170	200	215	150	190	145	140	100	155	220	120	85
PCR product											220	265	225	220					210	175	205	235	235	
																				255				
Length of int.	515	430	430	515	430	430	430	430	430	515	430	515	430	430	430	515	430	430	515	430	430	430	430	430
pos. control[1]																								
5'-primer(s)[2]	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	37(197)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	71(299)
	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACC 3'	5'-gTA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-ACA 3'	5'-gAA 3'
3'-primer(s)[3]	71(298)	71(298)	74(308)	74(308)	57(256)	37(197)	86(344)	86(344)	71(298)	57(256)	58(260)	59(262)	56(253)	67(286)	71(298)	74(308)	60(265)	47(227)	46(225)	33(184)	51(239)	72(302)	39(203)	86(344)
	5'-CTT 3'	5'-CTC 3'	5'-CCT 3'	5'-CCg 3'	5'-gCT 3'	5'-Cgg 3'	5'-CAC 3'	5'-CCA 3'	5'-TCT 3'	5'-ATC 3'	5'-CCT 3'	5'-CTg 3'	5'-AgC 3'	5'-gAT 3'	5'-CTT 3'	5'-CCT 3'	5'-gTT 3'	5'-ggA 3'	5'-TAg 3'	5'-gTT 3'	5'-CCA 3'	5'-CCT 3'	5'-AgT 3'	5'-CAC 3'
									71(298)	57(256)	73(305)	88(351)	74(307)	67(286)			67(286)		70(296)	58(260)	67(286)	78(319)	77(318)	
									5'-CCT 3'	5'-ATC 3'	5'-ggC 3'	5'-AAT 3'	5'-CAg 3'	5'-gAT 3'			5'-gAA 3'		5'-TCC 3'	5'-CgC 3'	5'-gAT 3'	5'-gTg 3'	5'-TAA 3'	
										58(261)				67(286)						85(341)	67(286)			
										5'-TCA 3'				5'-gAT 3'						5'-CAg 3'	5'-gAg 3'			
														73(304)							71(298)			
														5'-ggA 3'							5'-CgC 3'			
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
Length of spec.	215	215	225	225	170	115	260	260	215	170	175	180	170	200	215	150	190	145	140	100	155	220	120	85
PCR product											220	265	225	220					210	175	205	235	235	
																				255				
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

*04:01:01-04:01:06	1			4			7			10														24
*04:02		2		4				8		10				14										
*04:03:01-04:03:05			3					8	9	10						16								
*04:04:01-04:04:04				4				8	9	10														
*04:04:05				4				8	w	10														
*04:05:01, 04:05:03-04:05:07, 04:05:09-04:05:10				4	5		7		9															
*04:05:02				4	5		7		9															
*04:05:08				4	5		7		w															
*04:06:01-04:06:03			3			6		8	9	10														
*04:07:01-04:07:04			3				7		9	10						16								
*04:08:01-04:08:02				4			7		9	10														
*04:09	1			4	5		7																	24
*04:10				4	5			8	9															
*04:11			3		5			8	9							16								
*04:12					5			8	w				13	14										
*04:13	1			4				8		10														
*04:14		2		4			7			10				14										
*04:15				4				8	9		11						17							
*04:16	1			4			7			10		12												24
*04:17:01-04:17:02			3		5		7		9							16								
*04:18								8	w	10			13	14										
*04:19				4		6	7		9	10														
*04:20			3			6	7		9	10														
*04:21	1			4		6	7			10														24
*04:22								8		10	11													
*04:23				4				8	9	10		12												
*04:24				4	5		7		9										19					
*04:25								8	w	10			13				17							
*04:26	1			4			7			w														24
*04:27			3					8	9	10						16				20				
*04:28				4	5		7		9									18						
*04:29				4	5		7		9												21			
*04:30				4	5		7		9															
*04:31							7		w	10			13											
*04:32				4				8	9	10												22		
*04:33	1			4			7			10													23	24
*04:34															15									24
*04:35	1			4			7			10								18						24
*04:36				4				8	9	10							17							
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
Length of spec.	215	215	225	225	170	115	260	260	215	170	175	180	170	200	215	150	190	145	140	100	155	220	120	85
PCR product											220	265	225	220					210	175	205	235	235	
																				255				
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
*04:37		2		4				8		10											21			
*04:38	1			4			7			10				14							21			w
*04:39			3					8	9	10						16			19					

*04:40				4				8	9	10										20				
*04:41			3					8	9	10														
*04:42				4				8	9	10								18						
*04:43				4			7		9	10								18						
*04:44				w				8	9	10													23	
*04:45				4	5		7		9															
*04:46			3			6		8	9	10			13											
*04:47				4			7		w	10							17							
*04:48				4	5		7		9					14										
*04:49			3			6		8	9	10														
*04:50			3					8	9	10						w						22		
*04:51			3					8	9	10						16								
*04:52			3					8	9	10		12				16								
*04:53				4				8	w	10				14										
*04:54							7		w	10			13				17							
*04:55								8	w	10			13											
*04:56				4				8	9	10				14							21			
*04:57				4	5		7		9								17							
*04:58								8	w	10			13								21			
*04:59			3					8	9	10						16		18						
*04:60			3					8	9	10						16								
*04:61				4			7		9		11													
*04:62	1			4			7																	24
*04:63	1			4			7			10										20				24
*04:64																								24
*04:65			3			6		8		10														
*04:66																								24
*04:67	1			4	5			8																
*04:68				4		6		8	9	10														
*04:69			3				7		9							16			19					
*04:70				4				8	9	10														
*04:71			3					8	9	10						16								
*04:72:01	1			4			7			10														24
*04:72:02	1						7			10													23	24
*04:73				4				8		10				w							21			
*04:74							7		9	10													23	
*04:75				4			7			10														
*04:76	1			4			7			10														24
*04:77				4	5		7		9															
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
Length of spec.	215	215	225	225	170	115	260	260	215	170	175	180	170	200	215	150	190	145	140	100	155	220	120	85
PCR product											220	265	225	220					210	175	205	235	235	
																				255				
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
*04:78			3			6		8	9	10									19					
*04:79				4				8	9	10														
*04:80				4	5		7		9															
*04:81N				4	5		7		9															
*04:82				4			7		w					14										

*04:83				4	5		7		9															
*04:84				4	5	6	7		9															
*04:85			3			6		8	9	10														
*04:86					5		7		w				13	14										
*04:87				4	5		7		9															
*04:88			3					8	9	10				14		16					21			
*04:89				4	5		7		9															
*01:03, 11:11:01-11:11:02, 11:14:01-11:14:02, 11:20, 11:68, 11:73, 11:93, 13:02:01-13:02:03, 13:23, 13:29, 13:31, 13:34, 13:36-13:37, 13:39, 13:41, 13:45, 13:63, 13:67, 13:73-13:74, 13:85, 13:90, 13:96-13:97																								
*01:10, 01:16, 03:02:01-03:02:02, 03:05:01-03:05:03, 03:09, 03:14, 03:17, 03:27, 03:29, 03:35, 03:38, 03:40-03:41, 11:79, 14:19, *DRB3*01:01:02:01-01:14, DRB3*02:02:01-02:03, DRB3*02:05-02:10, DRB3*02:12-02:13,DRB3* 02:15-02:16, DRB3*02:18-02:23, DRB3*02:25, DRB3*03:03*																								24
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
Length of spec.	215	215	225	225	170	115	260	260	215	170	175	180	170	200	215	150	190	145	140	100	155	220	120	85
PCR product											220	265	225	220					210	175	205	235	235	
																				255				
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
*01:17, 09:01:02-09:01:05, 09:02:01-09:02:02, 09:04-09:05, 09:07-09:08, 14:07:01-14:07:02, 14:14, 14:36, 14:44:01-14:44:02, 14:51, 14:68, 14:93, *DRB5*01:12*																								
*03:12, 08:06, 08:10, 08:12, 08:22, 13:58, 14:65, 14:78, 15:12																								

***08:29**																**w**								
***08:40, 13:03:01-13:03:05, 13:33:01-13:33:03, 13:38, 13:65-13:66:02, 13:88, 13:95**																								
***11:22**				**4**			**7**		**9**		**11**						**17**	**18**						
***11:53**																**w**								**w**
***11:54:01-11:54:02, 11:89, 14:58**																**w**								
***13:04, 13:32, 13:48, 13:75, 13:81, 13:89, 13:93-13:94**																								
***14:10**			**3**					**8**	**9**										**19**					
***14:42**																**w**								
***14:57**		**2**		**4**				**8**						**14**										
DRB3*02:11, DRB3*02:17																								**w**
DRB1 allele																								
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**

INTERPRETATION TABLE

DRB1*04 SSP subtyping

Allele-specific amplification patterns of the DRB1*04:01 to *04:89 alleles

Well[4]																				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	
125	200	120	90	75	80	85	115	215	260	210	240	235	140	100	145	160	110	130	245	Length of spec.
230		265		260		260				245			215	175			140			PCR product
260																				
430	515	515	430	430	430	430	430	430	515	430	515	430	515	430	430	430	430	515	430	Length of int.
																				pos. control[1]
13(125)	13(125)	11(118)	57(258)	13(125)	57(258)	13(125)	13(125)	13(125)	13(125)	13(125)	20(145)	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	37(197)	13(125)	5'-primer(s)[2]
5' -ATA 3'	5' -ACA 3'	5' -AgA 3'	5' -AgC 3'	5' -ATA 3'	5' -AgC 3'	5' -ATA 3'	5' -ACA 3'	5' -ACA 3'	5' -gTC 3'	5' -ACA 3'	5' -ACC 3'	5' -ACA 3'	5' -ACA 3'	5' -ACA 3'	5' -ACA 3'	5' -ACA 3'	5' -ACA 3'	5' -gTA 3'	5' -ACA 3'	
23(155)		57(258)		74(308)		71(299)														
5' -gCC 3'		5' -AgC 3'		5' -CgA 3'		5' -CgA 3'														
58(259)		63(275)				71(299)														
5' -ATA 3'		5' -CAA 3'				5' -CAA 3'														
86(344)	67(286)	86(344)	74(308)	86(344)	71(299)	86(344)	37(197)	71(298)	86(344)	69(293)	86(344)	77(317)	46(224)	33(185)	46(223)	53(244)	37(196)	67(286)	81(328)	3'-primer(s)[3]
5' -CAC 3'	5' -gAg 3'	5' -CCA 3'	5' -CCT 3'	5' -CAC 3'	5' -gCT 3'	5' -CAC 3'	5' -CgT 3'	5' -CCA 3'	5' -CAC 3'	5' -..T 3'	5' -CCA 3'	5' -AgT 3'	5' -ACC 3'	5' -ggA 3'	5' -CTT 3'	5' -CAT 3'	5' -gTT 3'	5' -gAA 3'	5' -gTA 3'	
	67(288)						39(203)			81(328)			71(299)	57(257)	49(233)		47(226)			
	5' -AgA 3'						5' -AgT 3'			5' -gTA 3'			5' -gCg 3'	5' -CAg 3'	5' -CCA 3'		5' -gTg 3'			
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.
125	200	120	90	75	80	85	115	215	260	210	240	235	140	100	145	160	110	130	245	Length of spec.
230		265		260		260				245			215	175			140			PCR product
260																				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.

	26						32													*04:01:01-04:01:06
							32													*04:02
	26						32													*04:03:01-04:03:05
	26						32													*04:04:01-04:04:04
	26						32													*04:04:05
	26						32													*04:05:01, 04:05:03-04:05:07, 04:05:09-04:05:10
	26																			*04:05:02
	26						32													*04:05:08
	26																			*04:06:01-04:06:03
	26			29			32													*04:07:01-04:07:04
	26						32													*04:08:01-04:08:02
	26				30		32													*04:09
	26	27					32													*04:10
	26	27	28				32													*04:11
		27					32													*04:12
	26						32													*04:13
						31	32													*04:14
							32													*04:15
	26						32													*04:16
	26		28	29			32													*04:17:01-04:17:02
							32													*04:18
	26																			*04:19
	26			29																*04:20
	26																			*04:21
	26						32					37								*04:22
	26						32													*04:23
	26						32													*04:24
							32													*04:25
25	26						32													*04:26
	26						32													*04:27
	26						32													*04:28
	26						32													*04:29
	26						32								40					*04:30
	26						32													*04:31
	26						32													*04:32
	26						32													*04:33
																				*04:34
	26						32													*04:35
							32													*04:36
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.
125	200	120	90	75	80	85	115	215	260	210	240	235	140	100	145	160	110	130	245	Length of spec.
230		265		260		260				245			215	175			140			PCR product
260																				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.
							32													*04:37
							32													*04:38
	26						32													*04:39

	26						32													*04:40
	26						32										42			*04:41
	26						32													*04:42
	26						32													*04:43
	26						32													*04:44
25	26						32													*04:45
	26																			*04:46
							32													*04:47
	26						32													*04:48
	26	27																		*04:49
	26						32													*04:50
	26						32			35										*04:51
	26						32													*04:52
							32													*04:53
							32													*04:54
	26						32													*04:55
							32													*04:56
	26						32													*04:57
							32													*04:58
	26						32													*04:59
	26	27					32													*04:60
	26						32													*04:61
	26						32							39						*04:62
	26						32													*04:63
25				29		31														*04:64
	26							33												*04:65
									34											*04:66
	26	27			30		32													*04:67
	26																			*04:68
	26			29			32							39						*04:69
	26						32			35										*04:70
	26						32				36									*04:71
	26						32					37								*04:72:01
	26						32													*04:72:02
							32						38							*04:73
	26			29			32													*04:74
	26						32						38							*04:75
	26						32									41				*04:76
	26						32										42			*04:77
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.
125	200	120	90	75	80	85	115	215	260	210	240	235	140	100	145	160	110	130	245	Length of spec.
230		265		260		260				245			215	175			140			PCR product
260																				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.
	26																			*04:78
	26						32										42			*04:79
							32											43		*04:80
							32			35										*04:81N
							32													*04:82

	26						32							39						*04:83
	26																			*04:84
	26														40					*04:85
							32													*04:86
	26						32												44	*04:87
							32													*04:88
	26						32						38							*04:89
						31														*01:03, 11:11:01-11:11:02, 11:14:01-11:14:02, 11:20, 11:68, 11:73, 11:93, 13:02:01-13:02:03, 13:23, 13:29, 13:31, 13:34, 13:36-13:37, 13:39, 13:41, 13:45, 13:63, 13:67, 13:73-13:74, 13:85, 13:90, 13:96-13:97
																				*01:10, 01:16, 03:02:01-03:02:02, 03:05:01-03:05:03, 03:09, 03:14, 03:17, 03:27, 03:29, 03:35, 03:38, 03:40-03:41, 11:79, 14:19, *DRB3*01:01:02:01-01:14, DRB3*02:02:01-02:03, DRB3*02:05-02:10, DRB3*02:12-02:13,DRB3* 02:15-02:16, DRB3*02:18-02:23, DRB3*02:25, DRB3*03:03*
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.
125	200	120	90	75	80	85	115	215	260	210	240	235	140	100	145	160	110	130	245	Length of spec.
230		265		260		260				245			215	175			140			PCR product
260																				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.
				29																*01:17, 09:01:02-09:01:05, 09:02:01-09:02:02, 09:04-09:05, 09:07-09:08, 14:07:01-14:07:02, 14:14, 14:36, 14:44:01-14:44:02, 14:51, 14:68, 14:93, *DRB5*01:12*
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																				DRB1 allele
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.