

INTERPRETATION TABLE																								
DRB1*13 SSP subtyping																								
Amplification patterns of the DRB1*13:01 to *13:135 alleles																								
	Well ⁶																							
	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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145
PCR product(s)															235		255	230	205	215	220	175	245	180
Length of int. pos. control ¹	515	430	430	430	430	515	430	430	430	430	430	430	515	430	515	430	430	430	430	515	430	430	430	430
5'-primer(s) ²	13(125)	13(125)	13(125)	13(125)	13(125)	13(125)	37(196)	37(196)	13(125)	13(125)	13(125)	13(125)	13(125)	32(181)	13(125)	34(189)	13(125)	13(125)	13(125)	10(116)	12(122)	13(125)	13(125)	13(125)
	5'-gTC ³	5'-gTC ³	5'-gTC ³	5'-gTC ³	5'-gTC ³	5'-gTC ³	5'-AgA ³	5'-AgA ³	5'-gTC ³	5'-gTC ³	5'-gTC ³	5'-gTC ³	5'-gTC ³	5'-TCT ³	5'-gTC ³	5'-CAG ³	5'-gTC ³	5'-gTC ³	5'-gTC ³	5'-gCT ³	5'-TAT ³	5'-gTC ³	5'-gTC ³	5'-gTC ³
							37(196)							34(189)		34(189)				16(133)	26(164)			
							5'-AgA ³							5'-CAA ³		5'-CAG ³				5'-gTT ³	5'-gTA ³			
														37(197)						25(161)				
													5'-gTT ³							5'-gCT ³				
3'-primer(s) ³	58(260)	67(286)	67(286)	57(256)	71(298)	71(298)	86(344)	86(344)	86(344)	86(344)	67(286)	71(299)	47(227)	71(298)	28(171)	71(298)	72(303)	37(196)	37(196)	71(299)	71(299)	37(196)	38(199)	48(230)
	5'-Cgg ³	5'-gAT ³	5'-gAA ³	5'-gCT ³	5'-CTT ³	5'-CTC ³	5'-CAC ³	5'-CCA ³	5'-CAC ³	5'-CCA ³	5'-gAg ³	5'-gCT ³	5'-ggT ³	5'-CTC ³	5'-CTC ³	5'-CTC ³	5'-gCg ³	5'-gAT ³	5'-gAT ³	5'-gCT ³	5'-gCT ³	5'-gTC ³	5'-CAG ³	5'-CCA ³
	58(260)	67(286)	67(286)		71(298)	71(298)	93(364)		93(364)		67(286)	72(303)			77(317)		84(337)	74(307)	68(290)			57(257)	78(321)	60(266)
	5'-CAG ³	5'-gAT ³	5'-gAA ³		5'-CCT ³	5'-CgC ³	5'-CCT ³		5'-CCT ³		5'-gAg ³	5'-gCg ³			5'-AgT ³		5'-CCg ³	5'-CAG ³	5'-CCC ³			5'-CgA ³	5'-CAA ³	5'-Agg ³
		67(286)			74(307)						71(299)							77(318)	86(344)				84(337)	
		5'-gAT ³			5'-Cag ³						5'-gCg ³							5'-TAA ³	5'-CAT ³				5'-CCg 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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145
PCR product(s)															235		255	230	205	215	220	175	245	180

																		260							
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	
DRB1 allele ⁴																									
*13:01:01-13:01:02, 13:01:04-13:01:08, 13:01:10, 13:105, 13:121, 13:125, 13:127, 13:130-13:131	1	2				6		8		10		12				16									
*13:01:03	1	2				6		8		10		12				16							23		
*13:01:09	1	2				6		8		10		12				16									
*13:02:01, 13:02:03- 13:02:05, 13:123-13:124, 13:126	1	2				6	7		9			12				16									
*13:02:02	1	2				6	7		9			12					17								
*13:03:01-13:03:06	1	2		4	5				9			12	13												
*13:04	1	2		4		6				10		12		14											
*13:05:01-13:05:02, 13:50:02	1		3		5		7		9																
*13:06	1	2			5			8		10															
*13:07:01-13:07:02	1		3		5				9				13												
*13:08	1	2				6				10		12	13	14		16									
*13:09, 13:129	1	2				6		8		10	11														
*13:10	1	2			5			8		10		12													
*13:11:01-13:11:02	1		3		5					10															
*13:12:01-13:12:02, 13:118	1	2		4	5				9				13												
*13:13	1	2		4	5				9				13					18							
*13:14:01-13:14:03	1		3		5				9																
*13:15	1	2				6		8		10		12				15	16								
*13:16	1	2				6						12				16			19						
*13:17														14						20					
*13:18	1		3		5			8		10								18							
*13:19	1	2				6				10		12	13	14	15	16									
*13:20	1					6		8		10	11	12				16									
*13:21:01-13:21:02	1		3	4	5				9																
*13:22	1	2				6				10		12		14											
*13:23:01-13:23:02	1	2				6			9			12		14											
*13:24	1		3			6				10		12		14											
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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	230	110	205	180	220	175	110	145
PCR product(s)															235		255	230	205	215	220	175	245	180	

																		260							
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	
*13:25	1				5				9		11														
*13:26	1		3		5		7		9			12	13		15		17								
*13:27	1	2				6		8		10		12				16					21				
*13:28	1	2				6		8		10		12				16	17						23		
*13:29	1					6	7		9		11	12				16									
*13:30	1	2		4	5				9																
*13:31	1	2				6	7		9			12				16					22				
*13:32	1	2		4		6		8		10		12	13			16									
*13:33:01	1	2		4	5				9			12	13		15										
*13:33:02-13:33:03	1	2		4	5				9			12	13				18								
*13:34	1	2				6	7		9			12				16						23			
*13:35	1	2				6		8		10		12				16							24		
*13:36	1	2				6	7		9			12	13			16									
*13:37	1	2			5				9			12	13												
*13:38	1	2		4		6			9			12	13	14											
*13:39	1	2				6	7		9			12				16							24		
*13:40	1	2				6		8		10		12	13			16									
*13:41	1	2				6	7		9			12				16					21				
*13:42	1		3		5			8		10															
*13:43						6		8		10	11	12				16									
*13:44	1				5					10															
*13:45		2				6			9			12		14											
*13:46	1		3		5				9												22				
*13:47	1		3		5				9				13				18								
*13:48	1	2		4		6				10		12	13	14											
*13:49	1		3	4	5				9				13												
*13:50:01	1		3		5		7		9																
*13:51	1	2				6		8		10		12				16									
*13:52	1	2				6				10		12				16									
*13:53	1	2				6		8		10		12	13		15	16									
*13:54	1		3			6				10		12		14							22		24		
*13:55	1		3	4	5				9				13				18								
*13:56	1				5		7		9		11														
*13:57	1	2				6				10		12		14	15	16									
*13:58	1	2		4	5					10			13												
*13:59	1	2				6		8		10		12				16									
*13:60	1				5				9		11	12	13				17								
*13:61:01	1	2				6		8		10		12				16		18							
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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	220	175	110	115	145
PCR product(s)															235		255	230	205	215	220	175	245	180	

																		260						
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
*13:61:02	1	2				6		8		10		12			15	16								
*13:62	1		3		5				9															
*13:63	1		3			6	7		9			12				16								
*13:64	1	2				6				10		12		14		16						23		
*13:65	1	2		4		6	7		9			12	13			16								
*13:66:01-13:66:02	1	2		4	5				9			12												
*13:67							7									16			20					
*13:68	1	2				6				10		12				16					22			
*13:69	1	2				6		8		10		12		14		16								
*13:70	1	2				6				10		12	13	14										
*13:71	1					6		8		10	11	12				16					21			
*13:72	1	2				6				10		12	13	14		16								
*13:73	1	2				6	7		9			12				16			20					
*13:74	1	w				6	7		9			12				16			19					
*13:75	1		3	4		6				10		12		14										
*13:76	1	2				6				10		12	13	14		16						23		
*13:77	1	2			5			8		10		12					17				22		24	
*13:78	1					6		8		10	11	12				16							24	
*13:79	1	2				6		8		10		12				16							24	
*13:80	1	2				6		8		10		12				16								
*13:81	1	2		4	5					10		12	13											
*13:82	1	2			5				9															
*13:83	1	2				6				10		12		14		16								
*13:84	1	2				6				10		12	13			16								
*13:85	1	2			5		7		9			12	13		15									
*13:86	1				5				9						15									
*13:87	1	2				6		8		10		12				16		18	19					
*13:88	1			4	5				9		11	12	13											
*13:89	1	2		4	5					10		12	13											
*13:90	1	2		4	5				9			12	13											
*13:91	1	2				6		8		10		12				16								
*13:92, 13:98⁵	1	2				6		8		10		12				16								
*13:93	1	2		4		6		8		10		12				16								
*13:94	1	2		4	5					10		12	13		15									
*13:95	1	2		4	5				9			12	13											
*13:96:01	1	2				6	7		9			12			15	16								
*13:96:02	1	2				6	7		9			12				16		18						
*13:97	1	2				6			9			12				16								
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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145
PCR product(s)															235		255	230	205	215	220	175	245	180

																		260						
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
*13:99	1	2				6	7		9			12				16								
*13:100	1		3		5				9													22		24
*13:101	1	2		4	5				9			12	13											
*13:102	1	2				6		8		10		12				16								
*13:103							7									16					21			
*13:104	1	2				6	7		9			12			15	16								
*13:106	1	2				6				10		12				16								
*13:107	1	2				6			9			12		14		16								
*13:108	1		3	4	5					10			13											
*13:109	1	2				6						12				16								
*13:110	1	2						8		10														
*13:111	1		3			6		8		10		12				16								
*13:112	1	2				6		8		10		12				16								
*13:113N	1	2				6		8		10		12				16								
*13:114	1					6		8		10		12				16								
*13:115	1	2		4	5		7		9			12	13											
*13:116														14					20					
*13:117	1	2				6		8		10		12				16								
*13:119	1				5		7		9		11							18						
*13:120	1	2		4	5		7		9			12	13											
*13:122		2		4	5				9			12	13											
*13:128	1	2				6	7		9			12				16								
*13:132	1		3		5				9															
*13:133	1			4	5				9			12	13											
*13:134	1			4	5				9		11		13											
*13:135	1	2				6			9			12	13	14		16								
*01:42																								
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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145
PCR product(s)															235		255	230	205	215	220	175	245	180
																			260					
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

*01:44, 04:42, 04:59, 08:28, 11:67, 11:104, 12:02:01-12:02:05, 12:07, 12:12-12:13, 12:15, 12:18-12:20, 12:23, 12:26-12:28, 12:31N-12:33, 15:01:01:01-15:01:17, 15:03:01:01-15:06, 15:09, 15:12-15:13, 15:16-15:18, 15:20-15:25, 15:28, 15:33, 15:35-15:36, 15:40-15:43, 15:45-15:46, 15:49-15:57, 15:59, 15:61-15:62, 15:64-15:67, 15:69																									
*03:01:01:01-03:01:01:02, 03:01:03-03:01:05, 03:01:07-03:01:08, 03:01:10-03:01:15, 03:01:18-03:01:19, 03:07, 03:11:01, 03:18, 03:22-03:23, 03:28, 03:32, 03:34, 03:36-03:37, 03:39, 03:45, 03:47-03:48, 03:50-03:51, 03:54-03:56, 03:58-03:59, 03:61-03:62, 03:66-03:68N, 03:70, 03:72	1							8		10					15										
*03:01:02, 03:11:02, 03:24	1							8		10							18								
*03:01:06, 03:01:09, 03:08, 03:46, 03:64-03:65								8		10					15										
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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145	
PCR product(s)															235		255	230	205	215	220	175	245	180	
																			260						
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	

*03:01:16, 03:77	1							8		10				15											
*03:01:17	1							8		10													23		
*03:02:01, 03:74	1							7		9				13	15										
*03:02:02, 03:27	1							7		9				13	15		18								
*03:03, 03:06, 03:60	1							8		10				13	15										
*03:04:01-03:04:02, 03:21, 03:25, 03:30, 03:49	1									10				15											
*03:05:01-03:05:02, 03:09, 03:29	1							7		9				15											
*03:05:03	1							7		9							18								
*03:10								8		10				15											
*03:12	1			4				8		10				15											
*03:13:01	1							8		10				15									24		
*03:13:02	1							8		10							18						24		
*03:14	1							7		9															
*03:15	1							8		10															
*03:16, 03:20	1							8		10				15											
*03:17, 03:35	1								9				13				18								
*03:19	1							8		10				15											
*03:26	1							8		10				13	15										
*03:31, 03:75	1									10				13	15										
*03:33	1							8		10				15											
*03:38	1							7		9				13	15						22		24		
*03:40	1								9					15											
*03:41	1								9					13	15										
*03:42, 03:69, 15:32								8																	
*03:43	1									10				15									23		
*03:44	1									10				15											
*03:52	1									10				15											
*03:53	1							7		9				15											
*03:57, 03:63	1													15											
*03:71	1							8		10				15									23		
*03:73	1							8		10				15		17							23		
*03:76	1				5			8		10		12		15							21				
*04:02:01-04:02:03														14											
*04:14, 04:37, 04:106														14											
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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145	
PCR product(s)															235		255	230	205	215	220	175	245	180	
																			260						
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	

*04:77, 04:102, 14:46, 16:08, DRB3*01:08, DRB3*02:06, DRB3*02:20							7																	
*08:09, 08:21, 11:22, 14:15, 14:73, 16:01:02																								
*08:20	1		3		5				10				13				18							
*08:32, 12:11, 12:22																								
*08:40, DRB3*02:27																	20							
*11:01:01-11:01:02, 11:01:04, 11:01:06, 11:01:08-11:01:09, 11:01:13-11:01:16, 11:12:01, 11:29, 11:32-11:33, 11:39, 11:61-11:62, 11:66, 11:72, 11:74:01-11:75, 11:80-11:81, 11:90-11:91, 11:94-11:95, 11:97, 11:99-11:101, 11:106, 11:108-11:112, 11:117, 11:121			3		5				9															
*11:01:03, 11:01:11			3		5				9		12					17								
*11:01:05			3		5				9													23		
*11:01:07			3		5				9															
*11:01:10			3		5				9		12					17						23		
*11:01:12, 11:10:01-11:10:02, 11:12:02			3		5				9															
*11:02:01-11:02:02, 11:65:01-11:65:02, 11:70		2			6				10		12		14											
*11:03, 11:63			3		6				10		12		14											
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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145
PCR product(s)															235		255	230	205	215	220	175	245	180
																			260					
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

*11:04:01-11:04:02, 11:04:05-11:04:06, 11:04:08, 11:35, 11:38, 11:43, 11:46:02, 11:54:02, 11:60, 11:77-11:78, 11:92, 11:102:01- 11:102:02			3		5					10																		
*11:04:03, 11:54:01			3		5					10																	23	
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Length of spec.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145				
PCR product(s)															235		255	230	205	215	220	175	245	180				
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Length of spec.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	110	110	180	175	110	115	145		
PCR product(s)															235		255	230	205	215	220	175	245	180		
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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		

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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.	175	200	200	170	220	215	200	190	270	260	210	215	145	150	85	150	220	230	110	110	180	175	110	115	145
PCR product(s)															235		255	230	205	215	220	175	245	180	
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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	

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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		
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PCR product(s)															235		255	230	205	215	220	175	245	180		
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DRB3*01:14	1								9				13				18					22	23	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	

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						205			255		170			130	120	160			PCR product(s)		

											260					155				
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25							32				36								*13:90
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		27											38						*13:96:01
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25		27																	*13:97
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110	140	145	160	155	85	175	215	80	145	150	75	100	70	80	90	115	235	185	Length of spec.
						205			255		170			130	120	160			PCR product(s)

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		27	28		30														*13:110
	26	27	28																*13:111
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		27															42		*13:128
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						205			255		170			130	120	160			PCR product(s)
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											260				155				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.

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		27	28																*03:15
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25																			*03:41
			28																*03:42, 03:69, 15:32
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.
110	140	145	160	155	85	175	215	80	145	150	75	100	70	80	90	115	235	185	Length of spec.
						205			255		170			130	120	160			PCR product(s)
											260				155				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.

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25		27																	*11:01:05
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25		27					32												*11:01:10
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25		27	28		30														*11:02:01-11:02:02, 11:65:01-11:65:02, 11:70
25		27	28																*11:03, 11:63
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.
110	140	145	160	155	85	175	215	80	145	150	75	100	70	80	90	115	235	185	Length of spec.
						205			255		170			130	120	160			PCR product(s)
											260				155				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.

25		27	28																*11:04:01-11:04:02, 11:04:05-11:04:06, 11:04:08, 11:35, 11:38, 11:43, 11:46:02, 11:54:02, 11:60, 11:77-11:78, 11:92, 11:102:01- 11:102:02
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		27																	*11:15
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.
110	140	145	160	155	85	175	215	80	145	150	75	100	70	80	90	115	235	185	Length of spec.
						205			255		170			130	120	160			PCR product(s)
											260				155				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.

25	27	28																	*11:25, 11:84
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25	27																		*11:82
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.
110	140	145	160	155	85	175	215	80	145	150	75	100	70	80	90	115	235	185	Length of spec.
						205			255		170			130	120	160			PCR product(s)
											260				155				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.

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25	27																		*11:103
25																			*11:107
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.
110	140	145	160	155	85	175	215	80	145	150	75	100	70	80	90	115	235	185	Length of spec.
						205			255		170			130	120	160			PCR product(s)
											260				155				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.

25	26																			*14:22
25																				*14:23:02
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				29								37								*14:63
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43		Well No.
110	140	145	160	155	85	175	215	80	145	150	75	100	70	80	90	115	235	185		Length of spec.
						205			255		170			130	120	160				PCR product(s)
											260				155					
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43		Well No.

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25	26																		*14:105
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			28		30														*15:10
			28										38						*15:37
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Well No.