

UCLA INTERNATIONAL HLA DNA EXCHANGE—119TH SUMMARY



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DNA Sample	
#735	#738
#736	#739
#737	#740

DNA #735

The consensus type for this sample is A*11:01-A*24:02-B*15:21-B*15:35-C*04:03-C*07:02-DRB1*08:03-DRB1-15:02-DRB5*01:01-DQA1*01:02-DQA1*01:03-DQB1*05:02-DQB1*06:01-DPB1*02:01-DPB1*05:01-DPA1*01:03-DPA1*02:02.

This sample was previously sent in Exchange #22 as DNA #153 (1997). B*15 has been updated in this present retyping to B*15:35 by 96% of labs reporting at high resolution. This sample likely contains the B*15:35-C*07:02 linkage. This B-C association occurs with a frequency of 0.00545 in Asian populations and is rare in other populations, according to the NMDP Bioinformatics website, which is compiled from *High resolution HLA alleles and haplotypes in the US population* (Maiers, et al. Human Immunology 2007; 68: 779-788). This association was seen in three other DNA Exchange samples - DNA #382, DNA #447, and DNA #624 from Asian, Hispanic, and unknown origins, respectively.

The results for DNA #735 are summarized in Table 1 and individual laboratory results are listed in Table 7.

DNA #736 BLACK

The consensus type for this sample from a Black donor is A*02:01-A*30:01-B*15:03-B*42:01-C*02:10-C*17:01-DRB1*03:02-DRB1*15:03-DRB3*01:01-DQA1*01:02-DQA1*04:01-DQB1*04:02-DQB1*06:02-DPB1*01:01-DPB1*126:01-DPA1*01:03-DPA1*02:02.

This sample was previously sent in Exchange #56 as DNA #361 (2002). In 2002, DPB1*04:01 was detected by 100%. In this present retyping, DPB1*126:01 was detected by 94%. DPB1*126:01 was discovered in 2010 and it differs from DPB1*04:01 in exon 3 at codon 178 (CTG->ATG), resulting in an amino acid change (Leu->Met). DPB1*126:01 has only been detected once before, also in a Black individual, as noted on the IMGT/HLA website's Allele Report for DPB1*126:01.

This donor carries an uncommon "DR51 group haplotype" that lacks a DRB5 gene, but is positive for DRB1*15:03. This uncommon association was seen in another DNA Exchange sample (sent as DNA #394 and DNA #124) from a Hispanic donor.

The results for DNA #736 are summarized in Table 2 and individual laboratory results are listed in Table 8.

DNA #737 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A*02:01-B*44:02-B*57:03-C*05:01-C*07:01-DRB1*04:01-DRB1*13:03-DRB3*01:01-DRB4*01:03-DQA1*03:03-DQA1*05:05-DQB1*03:01-DPB1*01:01-DPB1*17:01-DPA1*02:01.

18% of labs could not distinguish DQA1*05:05 from DQA1*05:09.

The results for DNA #737 are summarized in Table 3 and individual laboratory results are listed in Table 9.



DNA Sample	
#735	#738
#736	#739
#737	#740

DNA #738 ASIAN—FILIPINO

The consensus type for this sample from a Filipino donor is A*11:02-A*26:01-B*15:02-B*27:04-C*08:01-C*12:02-DRB1*12:02-DRB1*15:01-DRB3*02:02-DRB5*01:01-DQA1*01:02-DQA1*06:01-DQB1*03:01-DQB1*05:02-DPB1*02:01-DPB1*19:01-DPA1*01:03-DPA1*02:02.

The results for DNA #738 are summarized in Table 4 and individual laboratory results are listed in Table 10.

DNA #739 HISPANIC

The consensus type for this sample from a Hispanic donor is A*01:01-A*30:02-B*08:01-B*15:03-C*02:10-C*07:01-DRB1*03:01-DRB1*07:01-DRB3*01:01-DRB4*01:01-DQA1*02:01-DQA1*05:01-DQB1*02:01-DQB1*02:02-DPB1*01:01-DPB1*02:02-DPA1*01:03-DPA1*02:01.

The results for DNA #739 are summarized in Table 5 and individual laboratory results are listed in Table 11.

DNA #740 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A*24:02-A*31:01-B*38:01-B*51:01-C*12:03-C*14:02-DRB1*04:01-DRB1*09:01-DRB4*01:03-DQA1*03:02-DQA1*03:03-DQB1*03:01-DQB1*03:03-DPB1*02:01-DPB1*05:01-DPA1*01:03-DPA1*02:02.

The results for DNA #740 are summarized in Table 6 and individual laboratory results are listed in Table 12.

Table 1. Summary of the 119th DNA Exchange (DNA #735)

A				B				C			
<u>121 labs</u>		% (n)		<u>121 labs</u>		% (n)		<u>105 labs</u>		% (n)	
A*11:01:01	4 (3)	A*24:02:01	2 (2)	B*15:21	83 (69)	B*15:35	78 (64)	C*04:03	75 (71)	C*07:02:01	2 (2)
A*11:01:01G	4 (3)	A*24:02:01G	4 (3)	B*15:02	1 (1)	B*15:05	1 (1)	C*04:03+	3 (3)	C*07:02:01G	7 (7)
A*11:01P	1 (1)	A*24:02	65 (54)	B*15:21+	3 (2)	B*15:01	2 (2)	C*04	26 (25)	C*07:02P	1 (1)
A*11:01	63 (52)	A*24:02+	4 (3)	B*15	34 (28)	B*15:35+	1 (1)	C*02	1 (1)	C*07:02	51 (49)
A*11:01+	3 (2)	A*24	46 (38)			B*15:01+	1 (1)			C*07:02+	8 (8)
A*11	46 (38)					B*15	36 (30)			C*07	32 (30)
						B*42	1 (1)			C*17	1 (1)
						B*95	1 (1)			C*08	1 (1)

DRB1				DRB3/4/5				DQA1			
<u>124 labs</u>		% (n)		<u>69 labs</u>		% (n)		<u>61 labs</u>		% (n)	
DRB1*08:03:02	9 (7)	DRB1*15:02:01	9 (7)	DRB5*01:01:01	2 (3)			DQA1*01:02:01G	4 (7)	DQA1*01:03	34 (56)
DRB1*08:03	71 (57)	DRB1*15:02	70 (56)	DRB5*01:01	44 (64)			DQA1*01:02P	2 (3)	DQA1*01:03+	7 (11)
<i>DRB1*08:01</i>	2 (2)	<i>DRB1*15:01</i>	1 (1)	DRB5*01:01+	1 (1)			DQA1*01:02	22 (36)	DQA1*01	20 (33)
DRB1*08:03+	4 (3)	DRB1*15:02+	7 (6)	DRB5*01	11 (16)			DQA1*01:02+	2 (3)		
<i>DRB1*08:01+</i>	1 (1)	DRB1*15	37 (30)	DRB5*Present	11 (16)			DQA1*01	31 (51)		
DRB1*08	37 (30)										

DQB1				DPB1				DPA1			
<u>112 labs</u>		% (n)		<u>56 labs</u>		% (n)		<u>22 labs</u>		% (n)	
DQB1*05:02:01	5 (4)	DQB1*06:01:01	4 (4)	DPB1*02:01:02	1 (2)	DPB1*05:01:01	1 (2)	DPA1*01:03:01G	1 (5)	DPA1*02:02:02	1 (5)
DQB1*05:02:01G	3 (3)	DQB1*06:01:01G	2 (2)	DPB1*02:01:02G	3 (5)	DPB1*05:01:01G	6 (11)	DPA1*01:03	16 (73)	DPA1*02:02	13 (59)
DQB1*05:02	69 (62)	DQB1*06:01	67 (60)	DPB1*02:01P	1 (2)	DPB1*05:01P	2 (4)	DPA1*01	5 (23)	DPA1*02:02+	3 (14)
<i>DQB1*05:03</i>	1 (1)	<i>DQB1*06:02</i>	1 (1)	DPB1*02:01	42 (75)	DPB1*05:01	39 (70)			DPA1*02	5 (23)
<i>DQB1*05:01</i>	1 (1)	DQB1*06:01+	9 (8)	DPB1*02:01+	3 (5)	DPB1*05	8 (14)				
<i>DQB1*04:02</i>	1 (1)	DQB1*06	29 (26)	DPB1*02	6 (11)						
DQB1*05:02+	6 (5)										
DQB1*05	26 (23)										

Table 3. Summary of the 119th DNA Exchange (DNA #737)

A				B				C			
121 labs		% (n)		121 labs		% (n)		104 labs		% (n)	
A*02:01:01	5 (4)			B*44:02:01:01	1 (1)	B*57:03:01	9 (7)	C*05:01:01	5 (5)	C*07:01:01	2 (2)
A*02:01:01G	6 (5)			B*44:02:01	3 (2)	B*57:03	67 (55)	C*05:01:01G	4 (4)	C*07:01:02	2 (2)
A*02:01P	2 (2)			B*44:02:01G	7 (6)	B*57:07	1 (1)	C*05:01P	1 (1)	C*07:01:01G	8 (8)
A*02:01	60 (50)			B*44:02P	1 (1)	B*57:01	1 (1)	C*05:01	56 (54)	C*07:01P	2 (2)
A*02:01+	4 (3)			B*44:02	54 (45)	B*57:03+	5 (4)	C*05:01+	4 (4)	C*07:01	47 (45)
A*02	44 (36)			B*44:02+	10 (8)	B*57	37 (31)	C*05	33 (32)	C*07:01+	4 (4)
				B*44	44 (36)	B*27	1 (1)	C*08	1 (1)	C*07	35 (34)
				B*15	1 (1)					C*12	1 (1)
										C*06	2 (2)
										C*05	1 (1)

DRB1				DRB3/4/5				DQA1			
124 labs		% (n)		67 labs		% (n)		60 labs		% (n)	
DRB1*04:01:01	7 (6)	DRB1*13:03:01	7 (6)	DRB3*01:01:02:01	1 (1)	<i>DRB4*01:01:01:01</i>	1 (1)	DQA1*03:01:01G	1 (2)	DQA1*05:01:01G	1 (2)
DRB1*04:01	77 (62)	DRB1*13:03	76 (61)	DRB3*01:01:02	1 (1)	DRB4*01:03:01	1 (1)	DQA1*03:03	20 (33)	DQA1*05:01P	1 (2)
DRB1*04:01+	4 (3)	<i>DRB1*13:01</i>	1 (1)	DRB3*01:01:02G	1 (1)	DRB4*01:01P	1 (1)	<i>DQA1*03:02</i>	1 (2)	DQA1*05:05	16 (27)
DRB1*04	35 (28)	DRB1*13:03+	4 (3)	DRB3*01:01	32 (48)	DRB4*01:03	31 (46)	DQA1*03	26 (43)	<i>DQA1*05:10</i>	1 (2)
<i>DRB1*13</i>	1 (1)	<i>DRB1*13:01+</i>	1 (1)	DRB3*01:01+	6 (9)	<i>DRB4*01:01</i>	1 (1)			DQA1*05:05+	14 (23)
		DRB1*13	35 (28)	DRB3*01	15 (22)	DRB4*01:03+	1 (1)			DQA1*05	27 (45)
				DRB3*Present	11 (16)	<i>DRB4*01:01+</i>	1 (1)				
						DRB4*01	19 (28)				
						DRB4*Present	10 (15)				
						<i>DRB3*Present</i>	1 (1)				

DQB1				DPB1				DPA1			
112 labs		% (n)		54 labs		% (n)		22 labs		% (n)	
DQB1*03:01:01	3 (3)			DPB1*01:01:01	3 (6)	DPB1*17:01:01G	4 (7)	DPA1*02:01:01	1 (5)		
DQB1*03:01:01G	3 (3)			DPB1*01:01	45 (83)	DPB1*17:01P	2 (4)	DPA1*02:01	15 (68)		
DQB1*03:01	69 (62)			DPB1*01	6 (11)	DPB1*17:01	40 (74)	DPA1*02	6 (27)		
DQB1*03:01+	4 (4)					DPB1*17:01+	1 (2)				
DQB1*03	33 (29)					DPB1*17	7 (13)				

Table 4. Summary of the 119th DNA Exchange (DNA #738)

A				B				C			
115 labs		% (n)		115 labs		% (n)		96 labs		% (n)	
A*11:02:01	4 (3)	A*26:01:01	6 (5)	B*15:02:01	6 (5)	B*27:04:01	7 (6)	C*08:01:01	3 (3)	C*12:02:02	4 (4)
A*11:02:01G	9 (8)	A*26:01:01G	6 (5)	B*15:02:01G	6 (5)	B*27:04:01G	6 (5)	C*08:01:01G	7 (7)	C*12:02:03	1 (1)
A*11:02P	6 (5)	A*26:01P	1 (1)	B*15:02	65 (57)	B*27:04P	1 (1)	C*08:01P	2 (2)	C*12:02:01G	2 (2)
A*11:02	41 (36)	A*26:01	57 (50)	B*15:02+	3 (3)	B*27:04	59 (51)	C*08:01	41 (43)	C*12:02	54 (56)
A*11:01	4 (3)	A*26:60N	1 (1)	B*15	35 (30)	B*27:04+	4 (3)	C*08:01+	12 (13)	C*12:02+	6 (6)
A*11:02+	9 (8)	A*26:19	1 (1)			B*27:01+	1 (1)	C*08	30 (31)	C*12	26 (27)
A*11	42 (37)	A*26:02	1 (1)			B*27	35 (30)	C*02	1 (1)	C*07	1 (1)
		A*26:01+	1 (1)			B*09	1 (1)			C*03	1 (1)
		A*26	41 (36)			B*08	1 (1)			C*01	1 (1)

DRB1				DRB3/4/5				DQA1			
117 labs		% (n)		62 labs		% (n)		56 labs		% (n)	
DRB1*12:02:01	7 (6)	DRB1*15:01:01	2 (2)	DRB3*01:01:02:01	1 (2)	DRB5*01:01:01	2 (3)	DQA1*01:02:01G	3 (5)	DQA1*06:01	43 (77)
DRB1*12:02	68 (58)	DRB1*15:01:01G	4 (3)	DRB3*02:02:01G	5 (8)	DRB5*01:01	37 (61)	DQA1*01:02P	2 (4)	DQA1*06:01+	1 (2)
DRB1*12:01	2 (2)	DRB1*15:01	69 (59)	DRB3*02:02P	1 (2)	DRB5*01:01+	1 (2)	DQA1*01:02	18 (32)	DQA1*06	12 (21)
DRB1*12:02+	4 (3)	DRB1*15:01+	4 (3)	DRB3*02:02	22 (35)	DRB5*01	9 (15)	DQA1*01:02+	8 (14)		
DRB1*12	36 (31)	DRB1*15	38 (32)	DRB3*02:12	2 (3)	DRB5*Present	12 (19)	DQA1*01	25 (45)		
				DRB3*01:01+	1 (2)						
				DRB3*02	17 (27)						
				DRB3*03	1 (2)						
				DRB3*Present	12 (19)						

DQB1				DPB1				DPA1			
105 labs		% (n)		47 labs		% (n)		19 labs		% (n)	
DQB1*03:01:01	3 (3)	DQB1*05:02:01	5 (5)	DPB1*02:01:02	1 (2)	DPB1*19:01:01G	3 (6)	DPA1*01:03:01G	1 (5)	DPA1*02:02:01	1 (5)
DQB1*03:01:01G	3 (3)	DQB1*05:02:01G	3 (3)	DPB1*02:01:02G	2 (4)	DPB1*19:01P	2 (4)	DPA1*01:03	14 (74)	DPA1*02:02	12 (63)
DQB1*03:01	63 (60)	DQB1*05:02	69 (66)	DPB1*02:01P	2 (4)	DPB1*19:01	34 (72)	DPA1*01	4 (21)	DPA1*02:02+	2 (11)
DQB1*03:01+	3 (3)	DQB1*05:01	2 (2)	DPB1*02:01	35 (74)	DPB1*19:01+	2 (4)			DPA1*02	4 (21)
DQB1*03	33 (31)	DQB1*03:02	1 (1)	DPB1*02:01+	2 (4)	DPB1*19	6 (13)				
		DQB1*05:02+	4 (4)	DPB1*02	5 (11)						
		DQB1*05	21 (20)								

Table 6. Summary of the 119th DNA Exchange (DNA #740)

A				B				C			
113 labs		% (n)		113 labs		% (n)		96 labs		% (n)	
A*24:02:01	3 (3)	A*31:01:02	5 (4)	B*38:01:01	8 (7)	B*51:01:01	6 (5)	C*12:03:01	4 (4)	C*14:02:01	4 (4)
A*24:02:01G	5 (4)	A*31:01:02G	4 (4)	B*38:01	57 (50)	B*51:01:01G	4 (4)	C*12:03:01G	5 (5)	C*14:02:01G	4 (4)
A*24:02	55 (49)	A*31:01P	1 (1)	<i>B*38:13</i>	1 (1)	B*51:01	57 (50)	C*12:03	48 (50)	C*14:02P	1 (1)
A*24:02+	5 (4)	A*31:01	53 (47)	B*38:01+	6 (5)	B*51:01+	4 (4)	C*12:03+	8 (8)	C*14:02	49 (51)
A*24	45 (40)	<i>A*31:02</i>	1 (1)	B*38	40 (35)	B*51	41 (36)	C*12	30 (31)	C*14:02+	7 (7)
		A*31:01+	5 (4)	<i>B*15</i>	1 (1)	<i>B*42</i>	1 (1)	C*05	1 (1)	C*14	29 (30)
		A*31	42 (37)							C*07	1 (1)
		<i>A*29</i>	1 (1)							C*03	1 (1)
		<i>A*03</i>	1 (1)								

DRB1				DRB3/4/5				DQA1			
117 labs		% (n)		64 labs		% (n)		55 labs		% (n)	
DRB1*04:01:01	8 (7)	DRB1*09:01:02	9 (8)	<i>DRB4*01:01:01:01</i>	1 (2)			DQA1*03:01P	1 (2)	DQA1*03:01P	1 (2)
DRB1*04:01	67 (57)	DRB1*09:01	63 (54)	DRB4*01:03:01	1 (2)			DQA1*03:02	18 (33)	DQA1*03:03	12 (22)
DRB1*04:01+	2 (2)	<i>DRB1*09:04</i>	1 (1)	DRB4*01:03	26 (41)			DQA1*03:02+	14 (25)	<i>DQA1*03:02</i>	3 (5)
DRB1*04	40 (34)	DRB1*09:01+	5 (4)	<i>DRB4*01:01</i>	1 (2)			DQA1*03	22 (40)	<i>DQA1*03:01</i>	1 (2)
		DRB1*09	38 (32)	<i>DRB3*01:03</i>	1 (2)					DQA1*03:03+	16 (29)
		<i>DRB1*03</i>	1 (1)	DRB4*01:03+	2 (3)					DQA1*03	22 (40)
				<i>DRB4*01:01+</i>	1 (2)						
				DRB4*01	19 (30)						
				DRB4*Present	12 (19)						

DQB1				DPB1				DPA1			
104 labs		% (n)		49 labs		% (n)		18 labs		% (n)	
DQB1*03:01:01	3 (3)	DQB1*03:03:02	3 (3)	DPB1*02:01:02	1 (2)	DPB1*05:01:01	1 (2)	DPA1*01:03:01G	1 (6)	DPA1*02:02:02	1 (6)
DQB1*03:01:01G	3 (3)	DQB1*03:03:02G	5 (5)	DPB1*02:01:02G	3 (6)	DPB1*05:01:01G	5 (10)	DPA1*01:03	13 (72)	DPA1*02:02	11 (61)
DQB1*03:01	64 (62)	DQB1*03:03	62 (60)	DPB1*02:01P	1 (2)	DPB1*05:01P	2 (4)	DPA1*01	4 (22)	DPA1*02:02+	2 (11)
DQB1*03:01+	6 (6)	<i>DQB1*03:17</i>	1 (1)	DPB1*02:01	37 (76)	DPB1*05:01	34 (69)			DPA1*02	4 (22)
DQB1*03	28 (27)	<i>DQB1*03:02</i>	1 (1)	DPB1*02:01+	2 (4)	DPB1*05:01+	1 (2)				
		<i>DQB1*03:01</i>	1 (1)	DPB1*02	5 (10)	DPB1*05	6 (12)				
		DQB1*03:03+	3 (3)								
		DQB1*03	28 (27)								

Table 7. Individual laboratory results for DNA #735

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	08	15	5*01	BLANK	01	01	05	06					11	24	15	15	04	07
16	08:03:02	15:02:01	5*01:01	BLANK	01:02:01G	01:03:10	05:02:17	06:01:43	02:01:02G	05:01:01G	01:03	02:02/5	11:01	24:02	15:21	15:35	04:03	07:02:01/50
80	08	15	5*01:01	BLANK	01	01:03	05:02	06	02:01	05:01	01:03	02:02	11	24	15:21	15	04:03	07
124	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	02:01	05			11	24	15:21	15:35	04:03	07
134	08:03	15:02	5*01:01	BLANK			05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
138	08:03	15:02	5*01	BLANK	01	01	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
139	08	15											11	24	15	15		
142	08	15	5*01	BLANK			05	06					11	24	15	15		
143	08:03	15:02					05:02	06:01					11:01/4	24:02/46	15:21	15:35	04:03	07:02/50
144	08:03	15:02			01:02/3	01:03/6	05:02:01G	06:01					11:01:01G	24:02:01G	15:21	15:35	04:03	07:02:01G
147	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
148	08:03	15:02	5*01:01	BLANK			05:02	06:01	02:01	05:01:01G			11:01	24:02	15:21	15:35	04:03	07:02
151	08:03	15:02											11:01/27	24:02/10	15:21	15:35		
152	08	15											11	24	15	15		
155													11:01	24:02	15:21	15:35	04:03	07:02
156	08:03	15:02	NT	NT	NT	NT	05:02	06:01	NT	NT	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02
158	08:03	15:02	5*01:01	BLANK	01	01:03	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
160																		
162	08:03:02	15:02:01					05:02:01	06:01:01					11:01:01	24:02:01	15:21	15:35	04:03	07:02:01
164	08	15											11	24	15	15		
168	08	15											11	24	15			
173	08:03	15:02			01:02	01:03	05:02	06:01					11	24				
174	08:03	15:02											11:01	24:02	15:21	15:35		
175	08:03	15:02/19					05	06					11:01	24:02	15:21	15:35	04	07
176	08:03	15:02					05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
185	08:03:02	15:02:01					05:02:01	06:01:01					11	24	15:21	15:35	04:03	07:02:01G
187	08:03	15:02	NT	NT	NT	NT	05:02	06:01	NT	NT	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02P
188	08:03	15:02																
189	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	NT	NT	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02
190	08	15	5	BLANK			05	06					11	24	15	15	04	07
192	08:03	15:02	5*01:01	BLANK			05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
193	08:03	15:02											11:01	24:02	15:21	15:35		
195																		
199	08	15	5	BLANK			05	06										
201	08:03	15:02	5*01:01	BLANK	01:02P	01:03	05:02	06:01	02:01	05:01			11:01P	24:02	15:21	15:35	04:03	07:02
205	08:03	15:02	5*01:01	BLANK	01:02P	01:03	05:02	06:01	02:01	05:01	01:03	02:02	11:01	24:02	15:21	15:35	04:03	07:02
206	08	15											11	24	15	15		
207	08:03	15:02	5*01:01	BLANK	01	01:03/10	05:02	06:01	02:01:02G	05:01:01G			11:01	24:02	15:21	15:35	04:03	07:02
208	08:03	15:02											11:01	24:02	15:21	15:35		
209	08:03	15:02	5*01:01	BLANK			05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
212																		
213	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
214													11	24	15:21	15:35	04	07
215	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT
218	08:03	15:02					05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
222	08	15	5*01	BLANK			05	06					11	24	15	15		
223																		
225	08:03/23	15:02/8	5*01:01:01	BLANK			05:03	06:01/43					11:01	24:02	15:02	15:05	04:03	07:02
226	08	15	5*01	BLANK	01	01	05	06	02	05	01	02	11	24	15		04	07
227	08:03:02	15:02:01	NT	NT	NT	NT	05:02:01	06:01:01	NT	NT	NT	NT	11:01:01	24:02	15:21	15:35	04:03	07:02
228	08:03	15:02	5*01:01	BLANK			04:02	06:02										
229																		
230	08:03	15:02	5*01:01	BLANK	01	01	05:02	06:01	02:01	05:01	01:03	02:02	11:01	24:02	15:21	15:35	04:03	07:02
232	08	15					05	06					11	24	15	15	04	07
234	08	15	NT	NT	01	01	05	06	02:01/123:01	05:01			11	24	15	15	04	07
237	08	15					05	06					11	24	15	15		
238	08:03:02	15:02:01	5*01:01	BLANK	01:02	01:03	05:02	06:01					11:01:01G	24:02:01G	15:21	15:35	04:03	07:02:01G
239	08:03/46	15:02/44	5*01:01	BLANK	01:02	01:03/10	05:02/14	06:01	02:01	05:01	01:03	02:02/5	11	24	15	15	04	07
240	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	08	15					05	06					11	24	15	15	04	07
245	08:03	15:02			01	01	05:02	06:01/43					11	24	15:21	15:35	04:03	07
246					01:02	01:03	05:02	06:01										
249	08:03:02	15:02:01					05:02:01	06:01:01	02:01:02	05:01:01			11:01:01	24:02:01	15:21	15:35	04:03	07:02:01
250	08	15	5	BLANK			05	06					11	24	15	95	04	07
251	NT	NT					NT	NT					NT	NT	NT	NT		
252	08	15	5	BLANK	NT	NT	05	06	NT	NT	NT	NT	11	24	15:11/21	15:01	04	07
255	08	15											11	24	15			
258																		
259																		
260																		
262	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01					11	24	15		04	07
263	08:01	15:02	NT	NT	NT	NT	05:02	06:01	02:01	05:01	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02
264	08:03:02	15:02:01	5*01:01	BLANK	01:02	01:03	05:02:01G	06:01:01G	02:01:02G	05:01:01G	01:03:01G	02:02:02	11:01:01G	24:02:01G	15:21	15:35	04:03	07:02:01G
265	08:01/2	15:01/2	5*01:01/2	BLANK	01:02/8	01:03	05:01/2	06:01/2	02:01	05:01	01:03	02:02	11:01/2	24:02/2L	15:21/44	15:01/1N	04:01/3	07:01/2
266	08	15	5	BLANK			05	06					11	24	15	15	04	08
267	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	NT	NT	NT	NT	11:01	24:02	15:21/44	15:01/35	04:01/3	07:02
268	08	15			01	01	05	06					11	24	15	42	02	17
271	08:01	15:01					05:01	06:01					11:01	24:02	15	15		
273	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02

Table 7. Individual laboratory results for DNA #735

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
274	08:03	15:02			01:02	01:03	05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
275	08:03	15:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11:01	24:02	15:21	15:35	NT	NT
276	08:03	15:02	5*01:01	BLANK	01:02:01G	01:03	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02:01G
278	08:03	15:02	5*01:01	BLANK	01	01:03	05:02	06:01	02:01	05:01	01:03	02:02	11:01	24:02	15:21	15:35	04:03	07:02
279	08:03	15:02			01	01:03	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
280	08:03	15:02											11:01	24:02	15:21	15:35	04:03	07:02
282	08	15	5*01:01	BLANK	01:02	01:03	05:02	06	NT	NT	NT	NT	11	24	15:21	15	04:03	07
283	08	15	NT	NT	NT	NT	05	06	NT	NT	NT	NT	11	24	15	15	04	07
401	08:03	15:02			01	01	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
452	08:03	15:02	5*01:01	BLANK	NT	NT	05:02	06:01	02:01	05:01	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02
519																		
615	08:03	15:02	5*01:01	BLANK			05:02:01G	06:01:01G	02:01	05:01:01G			11:01:01G	24:02:01G	15:21	15:35	04:03	07:02:01G
616	08	15											11	24	15	15	04	07
635	08	15	5	BLANK			05	06					11	24	15	15	04	07
702	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
714	08:03	15:02	NT	NT	NT	NT	05:02	06:01	NT	NT	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02
726	08	15	5*01	BLANK	01	01	05	06	02	05	01	02	11	24	15	15	04	07
732	08:03:02	15:02:01	5*01:01:01	BLANK	01	01	05:02:01	06:01					11:01:01	24:02	15:21	15:35	04:03	07:02:50
769	08:03	15:02	5*01:01	BLANK			05:02	06:01	02:01P	05:01P			11:01	24:02	15:21	15:35	04:03	07:02
805	08:03	15:02	NT	NT	NT	NT	05:02	06:01	NT	NT	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02:01G
1113	08:03	15:02	5*01:01	BLANK	01	01:03/10	05:02	06:01/43	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
1189	08:03	15:02	5*01:01	BLANK	01	01:03/10	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02:50
1212	08:03	15:02	5*01:01	BLANK			05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
1251																		
1498	08:03:02	15:02:01	5*01:01	BLANK	01:02:01G	01:03	05:02/14	06:01/43	02:01/123:01	05:01			11:01	24:02/2L	15:21	15:35	04:03	07:02:50
1647	08:03	15:02	5	BLANK	01	01	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
1686	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	02:01	05:01	01:03	02:02	11:01	24:02	15:21	15:35	04:03	07:02
1905	08:03	15:02	5*01:01	BLANK			05:02	06:01	02:01	05:01	01:03	02:02	11:01	24:02	15:21	15:35	04:03	07:02
2004																		
2013	08:03	15:02	NT	NT	NT	NT	05:02	06:01	NT	NT	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02
2015																		
2063	08:03	15:02	5*01:01	BLANK	01	01:03/10	05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
2347	08:03	15:02	5	BLANK	01	01	05:02	06:01	02:01	05:01	01:03	02:02	11:01	24:02	15:21	15:35	04:03	07:02
2411	08:03	15:02					05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
2518	08	15	NT	NT	01:02	01:03	05	06	02:01	05:01	01:03	02:02	11	24	15	15	04	07
2549	08:03	15:02	5*01	BLANK	01:02	01:03	05:02	06:01	02	05			11:01	24:02	15:21	15:35	04:03	07:02
3248																		
3261	08:03	15:02	5*01:01	BLANK			05:02	06:01	02:01	05:01			11	24	15	15	04	07
3264	08	15	NT	NT	NT	NT	05	06	NT	NT			11	24	15	15	04	07
3325	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01					11	24	15	15	04	07
3410	08:03	15:02					05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
3438	08:03	15:02					05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
3522																		
3582	08	15	5*01	BLANK	01	01	05	06	NT	NT			11	24	15	15	04	07
3600	08	15	5	BLANK	01	01	05	06	02	05	01	02	11	24	15	15	04	07
3614	08:03	15:02				01	05:02	06:01					11:01	24:02	15:21	15:35	04:03	07:02
3625	08	15	5	BLANK			05	06	02:01/123:01	05			11	24	15:21	15:35	04	07:02
3807	08:03/14	15:02/19					05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
3849	08:03	15:02	5*01:01	BLANK	01	01:03	05:02/9	06:01					11	24	15:21	15:35	04:03/6	07
4237																		
4281																		
4420	08:03	15:02					05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
4545	08:03	15:02	5*01:01	BLANK	01:02:01G	01:03	05:02	06:01	02:01	05:01:01G			11:01	24:02	15:21	15:35	04:03	07:02:50
4551	08:03	15:02/80N	5*01:01	BLANK	01:02	01:03	05:02	06:01/43	02:01	05:01	01:03	02:02	11	24	15	15	04	07
4585	08	15			01	01:03	05:02	06:01/43					11	24	15:21	15	04:03	07
4613	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11:01	24:02	15:21	15:35	04:03	07:02:50
4653	08	15	5*01:01	BLANK	01	01	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
4709	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	02:01	05:01			11:01	24:02	15:21	15:35	04:03	07:02
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15:21	15:35	04:03	07:02:01
5982																		
6051	08:03/49	15:02/58	5*01	BLANK	01	01	05:02/17	06:01/43	02:01	05:01	01:03	02:02/5	11	24	15:21	15:35	04:03	07
6313	08:03	15:02					05:02	06:01					11:01	24:02	15:21	15:01	04:03	07:02
9221	08	15	5	BLANK	01	01	05	06	02:01	05:01			11	24	15	15	04	07
197H	08:03	15:02					05:02	06:01	02:01	05:01P			11:01	24:02	15:21	15:35	04:03	07:02P
197L	08	15	5*01:01	BLANK	01	01:03	05:02	06			01:03	02:02	11	24	15:21	15	04:03	07
281H	08:03	15:02					05:02	06:01	02:01	05:01	01:03	02:02	11:01	24:02	15:21	15:35	04:03	07:02
281L	08	15	5*01	BLANK	01	01	05	06	02	05	01	02	11	24	15	15	04	07
4582H	08:03	15:02	5*01:01	BLANK	01:02	01:03	05:02	06:01	02:01	05:01	01:03	02:02	11:01	24:02	15:21	15:35	04:03	07:02
4582L	08	15	5*01	BLANK	01	01	05	06	02	05	01	02	11	24	15	15	04	07

Table 8. Individual laboratory results for DNA #736

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	03	15	3*01	BLANK	01	04	04	06					02	30	15	42	02	17
16	03:02:01	15:03:01	3*01:01	BLANK	01:02/8	04:01	04:02	06:02/47	01:01:01	126:01	01:03	02:02/5	02:01:01	30:01:01	15:03:01G	42:01:01	02:10	17:01/2
80	03	15	3*01:01	BLANK	01	04:01	04:02	06	01:01	126:01	01:03	02:02	02	30	15	42	02	17
124	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02	01:01	04:01/126:01			02	30:01	15	42:01	02:10	17
134	03:02	15:03	3*01:01	BLANK			04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01
138	03:02	15:03	3*01	BLANK	01	04	04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01
139	03	15											02	30	15	42		
142	03	15	3*01	BLANK			04	06					02	30	15	42		
143	03:02	15:03					04:02	06:02					02:01	30:01	15:03/220	42:01	02:10	17:01/2
144	03:02	15:03			01:02	04	04:02	06:02:01G					02:01:01G	30:01:01G	15:03:01G	42:01	02:10	17:01
147	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01
148	03:02	15:03	3*01:01	BLANK			04:02/3	06:02/23	01:01	04:01:01G			02:01	30:01	15:03:01G	42:01	NT	NT
151	03:02	15:03											02:01	30:01	15:03	42:01		
152	03	15											02	30	15	42		
155													02:01	30:01	15:03/103	42:01	02:10	17:01
156	03:02	15:03	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT	02:01	30:01	15:03	42:01	02:10	17:01
158	03:02	15:03	3*01:01	BLANK	01	04:01	04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01
160																		
162	03:02:01	15:03:01					04:02:01	06:02:01					02:01:01	30:01:01	15:03:01	42:01:01	02:10	17:01:01
164	03	15											02	30	15	42		
168	03	15											02	30	15	42		
173	03:02	15:03			01:02	04:01	04:02	06:02					02	30				
174	03:02	15:03											02:01/9	30:01	15:03	42:01		
175	03:02	15:03					04	06					02:01	30:01	15:03	42:01	02	17
176	03:02	15:03					04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01
185	03:02:01	15:03:01G					04:02/3	06:02/23					02:01:01G	30:01:01G	15:03:01G	42:01:01	02:10	17:01:01G
187	03:02	15:03	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT	02:01	30:01	15:03P	42:01	02:10	17:01
188	03:02	15:03																
189	03:02	15:03	3*01:01	BLANK	01:02/8	04:01	04:02	06:02	NT	NT	NT	NT	02:01	30:01	15:03	42:01	02:10	17:01
190	03	15	3	BLANK			04	06					02	30	15	42	02	17
192	03:02	15:03	3*01:01	BLANK			04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01
193	03:02	15:03											02:01/9	30:01	15:03	42:01		
195																		
199	03	14	3	BLANK			04	06										
201	03:02	15:03	3*01:01	BLANK	01:02P	04:01	04:02	06:02	01:01	126:01			02:01P	30:01	15:03	42:01	02:10	17:01
205	03:02	15:03	3*01:01	BLANK	01:02P	04:01	04:02	06:02	01:01	126:01	01:03	02:02	02:01	30:01	15:03P	42:01	02:10	17:01
206	03	15											02	30	15	42		
207	03:02	15:03	NT	NT	01	04:01	04:02	06:02	01:01	126:01			02:01	30:01	15:03/103	42:01	02:10	17:01
208	03:02	15:03											02:01/9	30:01	15:03/220	42:01		
209	03:02	15:03	3*01:01	BLANK			04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:02/10	17:01
212																		
213	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01
214													02	30	15:03:01	42:01:01	02:10	17:01:01
215	03	15	3	BLANK									02	30	15	42	01	01
218	03:02	15:03					04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01
222	03	15	3*01	BLANK			04	06					02	30	15	42		
223																		
225	03:02	15:01	3*01:01:02:01	BLANK			04:02	06:02					02:01	30:01	15:03	42:01	02:02	17:01
226	03	15	3*01	BLANK	01	04	04	06	01	04	01	02	02	30	15	42	02	17
227	03:02:01	15:03	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT	02:01	30:01:01	15:03	42:01	02:10	17:01
228	03:02	15:03	3*01:01	BLANK			05:02	06:01										
229																		
230	03:02	15:03	3*01:01	BLANK	01	04	04:02	06:02	01:01	126:01	01:03	02:02	02:01	30:01	15:03	42:01	02:10	17:01
232	03	15					04	06					02	30	15	42	02	17
234	03	15	NT	NT	01:02	04:01	04	06	01:01	126:01			02	30	15	42	02	17
237	03	15					04	06					02	30	15	42		
238	03:02:01	15:03:01G	3*01:01	BLANK	01:02	04:01	04:02	06:02					02:01:01G	30:01:01G	15:03:01G	42:01:01	02:02	17:01
239	03:02/74	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02/33	01:01	126:01	01:03	02:02/5	02	30	15	42	02	17
240	03:02	15:03			01:02	04:01	04:02	06:02					02:01	30:01	15:03	42:01	02:02	17:01
242	03	15	NT	NT	01	04	04	06	NT	NT	NT	NT	02	30	15	42	02	17
244	03	15					04	06					02	30	15	42	02	17
245	03:02	15:03			01:02/8	04:01	04:02	06:02/47					02	30	15	42:01	02:10	17:01
246					01:02	04:01	04:02	06:02										
249	03:02:01	15:03:01					04:02:01	06:02:01	01:01:01	126:01			02:01:01	30:01:01	15:03:01	42:01:01	02:10	17:01:01
250	03	15	3	BLANK			04	06					02	30	15	42	02	02
251	NT	NT					NT	NT					NT	NT	NT	NT		
252	03:02	15	3	BLANK	NT	NT	04	06	NT	NT	NT	NT	02	30	15:03	42	02	17
255	03	15											02	30	15	42		
258																		
259																		
260																		
262	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02					02	30	15	42	02	17
263	03:02	15:03	NT	NT	NT	NT	04:02	06:02	01:01	04:01	NT	NT	02:01	30:01	15:03	42:01	02:10	17:01
264	03:02:01	15:03:01G					04:02:01	06:02:01G	01:01:01	04:01:01G	01:03:01G	02:02:02	02:01:01G	30:01:01G	15:03:01G	42:01:01	02:10	17:01:01G
265	03:02/3	15:01/2	3*01:01/2	BLANK	01:02/8	04:01	04:01/2	06:01/2	01:01	126:01	01:03	02:02	02:01/L	30:01/2	15:03/61	42:01/2	02:02/3	17:01/2
266	03	18	3	BLANK			04	06					02	30	15	08	02	17
267	03:02	15:01/3	3*01:01	BLANK	01:02	04:01	04:02	06:02	NT	NT	NT	NT	02:01	30:01	15:03	42:01	02:02	17:01
268	03	15			01	04	04	06					02	30	44	57	05	07
271	03:02	15:01					04:01	06:01					02:01	30:01	15:03	42:01		
273	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01

Table 8. Individual laboratory results for DNA #736

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
274	03:02/74	15:03			01:02	04:01	04:02	06:02					02:01	30:01/53	15:03	42:01	02:10	17:01
275	03:02	15:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01/35	30:01/44	15:03	42:01	NT	NT
276	03:02	15:03	3*01:01	BLANK	01:02:01G	04:01	04:02	06:02	01:01	126:01			02:01	30:01	15:03:01G	42:01	02:10	17:01:01G
278	03:02	15:03	3*01:01	BLANK	01:02/8	04:01	04:02	06:02	01:01	126:01	01:03	02:02	02:01	30:01	15:03	42:01	02:10	17:01
279	03:02	15:03			01	04:01	04:02	06:02	01:01	04:01/126:01			02:01	30:01	15:03	42:01	02:10	17:01
280	03:02	15:03					04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01
282	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02	NT	NT	NT	NT	02	30	15	42	02	17
283	03	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT	02	30	15	42	02	17
401	03:02	15:03			01	04:01	04:02	06:02/47	01:01	126:01								
452	03:02	15:03	3*01:01	BLANK	NT	NT	04:02	06:02	01:01	126:01	NT	NT	02:01	30:01	15:03	42:01	02:10	17:01
519																		
615	03:02	15:03:01G	3*01:01:02G	BLANK			04:02	06:02:01G	01:01	04:01:01G			02:01:01G	30:01:01G	15:03:01G	42:01	02:10	17:01:01G
616	03	15											02	30	15	42	02	17
635	03	15	3	BLANK			04	06					02	30	15	42	02	17
702	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02	01:01	04:01			02:01	30:01	15:03	42:01	02:10	17:01
714	03:02	15:03	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT	02:01	30:01	15:03	42:01	02:10	17:01
726	03	15	3*01	BLANK		04	04	06	01	126	01	02	02	30	15	42	02	17
732	03:02:01	15:03:01	3*01:01:02	BLANK	01	04	04:02:01	06:02:01					02:01:01	30:01:01	15	42:01:01	02:10	17:01:01
769	03:02	15:03	3*01:01	BLANK			04:02	06:02	01:01	126:01			02:01P	30:01	15:03P	42:01	02:10	17:01
805	03:02	15:03	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT	02:01	30:01	15:03	42:01	02:10	17:01:01G
1113	03:02	15:03	NT	NT	01	04:01	04:02	06:02	01:01	04:01/126:01			02:01	30:01	15:03/220	42:01	02:10	17:01
1189	03:02	15:03	3*01:01	BLANK	01	04:01	04:02	06:02	01:01	126:01			02:01	30:01	15:03:01G	42:01	02:10	17:01
1212	03:02	15:03	3*01:01	5			04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01
1251	03:02/74	15:03	3*01:01	BLANK	01:02/8	04:01	04:02	06:02	01:01	126:01			02	30	15:03	42:01	02:10	17:01
1498	03:02:01	15:03:01	3*01:01/12	BLANK	01:02:01G	04:01	04:02/4	06:02:01G/49	01:01	126:01			02:01/1L	30:01	15:03:01G	42:01	02:10	17:01:01G
1647	03:02	15:03	3	BLANK	01	04	04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01
1686	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02	01:01	126:01	01:03	02:02	02:01	30:01	15:03	42:01	02:10	17:01
1905	03:02	15:03	3*01:01	BLANK			04:02	06:02	01:01	04:01P	01:03	02:02	02:01	30:01	15:03	42:01	02:10	17:01
2004																		
2013	03:02	15:03	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT	02:01	30:01	15:03	42:01	02:10	17:01
2015																		
2063	03:02	15:03	3*01:01	BLANK	01	04:01	04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01
2347	03:02	15:03	3	BLANK	01	04	04:02	06:02	01:01	126:01	01:03	02:02	02:01	30:01	15:03	42:01	02:10	17:01:01G
2411	03:02	15:03					04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01
2518	03	15	NT	NT	01	04:01	04:02	06	01:01	126:01	01:03	02:02	02	30	15	42	02	17
2549	03:02	15:03	3*01	BLANK	01:02	04:01	04:02	06:02	01	126			02:01	30:01	15:03	42:01	02:10	17:01
3248																		
3261	03:02	15:03	3*01:01	BLANK			04:02	06:02	01:01	126:01								
3264	03	15	NT	NT	NT	NT	04	06	NT	NT			02	30	15	42	02	17
3325	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02					02	30	15	42	02	17
3410	03:02	15:03					04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01
3438	03:02	15:03					04:02	06:02					02:01	30:01	15:03	42:01	02:10	17
3522																		
3582	03	15	3*01	BLANK	01	04	04	06	NT	NT			02	30	15	42	02	17
3600	03	15	3	BLANK	01	04	04	06	01	04/126	01	02	02	30	15	42	02	17
3614	03:02	15:03			01	04:01	04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01
3625	03:02	15:03	3	BLANK			04:02	06:02	01:01	126:01			02:01	30:01	15	42:01	02:10	17
3807	03:02	15:03					04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01/3
3849	03:02	15:03	3*01	BLANK	01:02/8	04:01	04:02	06:02					02	30	15:03:01G	42:01	02:10	17:01:01G
4237																		
4281																		
4420	03:02	15:03					04:02	06:02/11	01:01	04:01			02:01	30:01	15:03	42:01	02:02	17:01/3
4545	03:02	15:03	3*01	BLANK	01:02:01G	04:01	04:02	06:02	01:01	04:01:01G			02:01	30:01	15:03:01G	42:01	02:10	17:01:01G
4551	03:02	15:03	3*01:01	BLANK	01:02/8	04:01	04:02	06:02/47	01:01	126:01	01:03	02:02	02	30	15	42	02	17
4585	03:02/74	15:03/57			01:02/8	04:01	04:02	06:02/47					02	30	15	42	02	17
4613	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	30:01	15:03	42:01	02:10	17:01
4653	03	15	3*01:01	BLANK	01	04:01	04:02	06:02	01:01	126:01								
4709	03:02	15:03	3*01:01	5	01:02	04:01	04:02	06:02	01:01	126:01			02:01	30:01	15:03	42:01	02:10	17:01
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	42:01:01	02:10	17:01:01
5982																		
6051	03:02/74	15:03	3*01	BLANK	01	04	04:02	06:02/47	01:01	126:01	01:03	02:02/5	02	30	15:03/74	42	02	17
6313	03:02	15:03					04:02	06:02					02:01	30:01	15:03	42:01	02:10	17:01:01G
9221	03:02	15:03	3	BLANK	01	04:01	04:02	06:02	01:01	126:01			02	30	15:03	42	02	17
197H	03:02	15:03					04:02	06:02	01:01	126:01			02:01	30:01	15:03P	42:01	02:10	17:01
197L	03	15	3*01:01	BLANK	01	04:01	04:02	06			01:03	02:02	02	30	15	42	02	17
281H	03:02	15:03					04:02	06:02	01:01	126:01	01:03	02:02	02:01	30:01	15:03	42:01	02:10	17:01
281L	03	15	3*01	BLANK	01	04	04	06	01	126	01	02	02	30	15	42	02	17
4582H	03:02	15:03	3*01:01	BLANK	01:02	04:01	04:02	06:02	01:01	126:01	01:03	02:02	02:01	30:01	15:03	42:01	02:10	17:01
4582L	03	15	3*01	BLANK	01	04	04	06	01	126	01	02	02	30	15	42	02	17

Table 9. Individual laboratory results for DNA #737

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	04	13	3*01	4*01	03	05	03	BLANK					02	BLANK	44	57	05	07
16	04:01	13:03	3*01:01/11	4*01:03	03:02/3	05:05/9	03:01/24	BLANK	01:01:01	17:01	02:01	BLANK	02:01:01	BLANK	44:02:01/19N	57:03:01	05:01	07:01
80	04	13	3*01	4*01	03	05	03	BLANK	01:01	17:01	02:01	BLANK	02	BLANK	44	57	05	07
124	04:01	13:03	3*01:01	4*01	03	05	03:01	BLANK	01:01	17			02	BLANK	44	57:03	05:01	07
134	04:01	13:03	3*01:01	4*01:03			03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
138	04:01	13:03	3*01	4*01	03	05	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
139	04	13											02	BLANK	44	57		
142	04	13	3*01	4*01			03	BLANK					02	BLANK	44	57		
143	04:01/9	13:03/37					03:01	BLANK					02:01	BLANK	44:02/19N	57:03	05:01/37	07:01
144	04:01	13:03			03:02/3	05:05/9	03:01:01G	BLANK					02:01:01G	BLANK	44:02:01G	57:03	05:01:01G	07:01:01G
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	04:01	13:03	3*01:01	4*01:03			03:01	BLANK	01:01	17:01:01G			02:01	BLANK	44:02	57:03	05:01	07:01
151	04:01/9	13:03/37											02:01	BLANK	44:02	57:03		
152	04	13											02	BLANK	44	57		
155													02:01	BLANK	44:02	57:03	05:01	07:01
156	04:01	13:03	NT	NT	NT	NT	03:01	BLANK	NT	NT	NT	NT	02:01	BLANK	44:02	57:03	05:01	07:01
158	04:01	13:03	3*01:01	4*01:03	03	05	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
160																		
162	04:01:01	13:03:01					03:01:01	BLANK					02:01:01	BLANK	44:02:01	57:03:01	05:01:01	07:01:01
164	04	13											02	BLANK	44	57		
168	04	13											02	BLANK	44	57		
173	04:01	13:03			03:02/3	05:05/9	03:01	BLANK					02	BLANK	44	57		
174	04:01	13:03											02:01/9	BLANK	44:02	57:03		
175	04:01	13:03					03	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
176	04:01	13:03					03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
185	04:01:01	13:03:01					03	BLANK					02:01:01G	BLANK	44:02/91	57:03/7	05:01/46	07:01/40
187	04:01	13:03	NT	NT	NT	NT	03:01	BLANK	NT	NT	NT	NT	02:01	BLANK	44:02	57:03	05:01	07:01P
188	04:01	13:03																
189	04:01	13:03	3*01:01/11	4*01:01/3	03:02/3	05:05/9	03:01	BLANK	NT	NT	NT	NT	02:01	BLANK	44:02	57:03	05:01	07:01
190	04	13	3	4			03	BLANK					02	BLANK	44	57	05	07
192	04:01	13:03	3*01:01	4*01:03			03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
193	04:01	13:03											02:01	BLANK	44:02/27	57:03		
195																		
199	04	13	3	4			03	BLANK										
201	04:01	13:03	3*01:01	4*01:03	03:03	05:01P	03:01	BLANK	01:01	17:01P			02:01P	BLANK	44:02	57:03	05:01P	07:01
205	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK	01:01	17:01	02:01	BLANK	02:01	BLANK	44:02	57:03	05:01	07:01
206	04	13											02	BLANK	44	57		
207	04	13:03	NT	NT	NT	NT	03	BLANK	NT	NT			02	BLANK	44	57:03	05	07
208	04:01	13:03											02:01/9	BLANK	44:02/27	57:03		
209	NT	NT	NT	NT			NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
212																		
213	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
214													02:01:01	BLANK	44:02:01	57:03:01	05	07
215	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT
218	04:01	13:03					03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
222	04	13	3*01	4*01			03	BLANK					02	BLANK	44	57		
223																		
225	04:01	13:03	3*01:01:02:01	4*01:01:01:01			03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
226	04	13	3*01	4*01	03	05	03	BLANK	01	17	02	BLANK	02	BLANK	44	57	05	07
227	04:01	13:03	NT	NT	NT	NT	03:01:01	BLANK	NT	NT	NT	NT	02:01	BLANK	44:02:01:01	57:03:01	05:01:01	07:01:01
228	04:01	13:03	3*01:01	4*01:03			03:01	BLANK										
229																		
230	04:01	13:03	3*01:01	4*01:03	03	05	03:01	BLANK	01:01	17:01	02:01	BLANK	02:01	BLANK	44:02	57:03	05:01	07:01
232	04	13					03	BLANK					02	BLANK	44	57	05	07
234	04:01	13:03	NT	NT	NT	NT	03:01	BLANK	NT	NT			02:01	BLANK	44:02	57:03	05:01	07:01
237	04	13					03	BLANK					02	BLANK	44	57		
238	04:01:01	13:03:01	3*01:01	4*01:03	03:03	05:05	03:01	BLANK					02:01:01G	BLANK	44:02:01G	57:03:01	05:01:01G	07:01:01G
239	04:01/11	13:03/115	3*01:01	4*01:03	03:03	05:05/11	03:01/21	BLANK	01:01	17:01	02:01	BLANK	02	BLANK	44	57:02/3	05	07
240	04:01	13:03			03:03	05:05	03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
242	04	13	NT	NT	03	05	03	BLANK	NT	NT	NT	NT	02	BLANK	44	57	05	07
244	04	13					03	BLANK					02	BLANK	44	57	05	07
245	04:01	13:03			03:02/3	05:05/9	03	BLANK					02	BLANK	44	57:03	05	07
246					03:03	05:05	03:01	BLANK										
249	04:01:01	13:03:01					03:01:01	BLANK	01:01:01	17:01			02:01:01	BLANK	44:02:01	57:03:01	05:01:01	07:01:02
250	04	13	3	4			03	BLANK					02	BLANK	44	57	05	06
251	NT	NT					NT	NT					NT	NT	NT	NT	NT	NT
252	04	13	3	4	NT	NT	03	06	NT	NT	NT	NT	02	BLANK	44	57	05	06
255	04	13											02	BLANK	44	57		
258																		
259																		
260																		
262	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK					02:01	BLANK	44	57	05	07
263	04:01	13:03	NT	NT	NT	NT	03:01	BLANK	01:01	17:01	NT	NT	02:01	BLANK	44:02	57:03	05:01	07:01
264	04:01:01	13:03:01					03:01:01G	BLANK	01:01:01	17:01:01G	02:01:01	BLANK	02:01:01G	BLANK	44:02:01G	57:03:01	05:01:01G	07:01:01G
265	04:01/2	13:01/2	3*01:01/2	4*01:01/2	03:02/3	05:10	03:01/4	BLANK	01:01	17:01	02:01	BLANK	02:01/1L	BLANK	44:02/2S	57:02/3	05:01/3	07:01/2
266	13	13	3	3			03	BLANK					02	BLANK	44	57	05	07
267	04:01	13:03	3*01:01	4*01:01	03:02	05:01/5	03:01	BLANK	NT	NT	NT	NT	02:01	BLANK	44:02	57:03/7	05:01	07:01
268	04	13			03	05	03	BLANK					02	BLANK	15	27	08	12
271	04:01	13:01					03:01	BLANK					02:01	BLANK	44:02	57:01		
273	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01

Table 9. Individual laboratory results for DNA #737

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
274	04:01	13:03			03:03	05:05	03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
275	04:01	13:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	BLANK	44:02	57:03	NT	NT
276	04:01	13:03	3*01:01	4*01:03	03:01:01G	05:01:01G	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02:01G	57:03	05:01	07:01:01G
278	04:01	13:03	3*01:01	4*01:03	03:02/3	05:05/9	03:01	BLANK	01:01	17:01	02:01	BLANK	02:01	BLANK	44:02	57:03	05:01	07:01
279	04:01	13:03			03	05	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
280	04:01	13:03					03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
282	04	13	3*01	4*01	03	05	03	BLANK	NT	NT	NT	NT	02	BLANK	44	57	05	07
283	04	13	NT	NT	NT	NT	03	BLANK	NT	NT	NT	NT	02	BLANK	44	57	05	07
401	04:01	13:03			03	05	03:01/29	BLANK	01:01	17:01								
452	04:01	13:03	3*01:01	4*01:03	NT	NT	03:01	BLANK	01:01	17:01	NT	NT	02:01	BLANK	44:02	57:03	05:01	07:01
519																		
615	04:01	13:03	3*01:01:02G	4*01			03:01	BLANK	01:01	17:01:01G			02:01:01G	BLANK	44:02:01G	57:03	05:01:01G	07:01:01G
616	04	13											02	BLANK	44	57	05	07
635	04	13	3	4			03	BLANK					02	BLANK	44	57	05	07
702	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
714	04:01	13:03	NT	NT	NT	NT	03:01	BLANK	NT	NT	NT	NT	02:01	BLANK	44:02	57:03	05:01	07:01
726	04	13	3*01	4*01	03	05	03	BLANK	01	17	02	BLANK	02	BLANK	44	57	05	07
732	04:01:01	13:03:01	3*01:01:02	4*01:03:01	03	05	03	BLANK					02:01:01	BLANK	44:02/19N	57:03:01	05:01:01	07
769	04:01	13:03	3*01:01	4*01:03			03:01	BLANK	01:01	17:01			02:01P	BLANK	44:02P	57:03	05:01	07:01
805	04:01	13:03	NT	NT	NT	NT	03:01	BLANK	NT	NT	NT	NT	02:01	BLANK	44:02:01G	57:03	05:01	07:01:01G
1113	04:01	13:03	3*01:01	4*01:03	03:02/3	05:05/9	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01/76	07:01/165
1189	04:01	13:03	3*01:01	4*01:03	03:02/3	05:05/9	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
1212	04:01	13:03	3*01:01	4*01:03			03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
1251	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK	01:01	17:01			02	BLANK	44	57:03	05:01	07
1498	04:01:01	13:03:01	3*01:01/12	4*01:03	03:03	05:05/10	03:01:01G	BLANK	01:01	17:01/131:01			02:01/1L	BLANK	44:02:01G	57:03	05:01	07:01:01G
1647	04:01	13:03	3	4	03	05	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
1686	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK	01:01	17:01	02:01	BLANK	02:01	BLANK	44:02	57:03	05:01	07:01
1905	04:01	13:03	3*01:01/11	4*01:01P			03:01	BLANK	01:01	17:01P	02:01	BLANK	02:01	BLANK	44:02	57:03	05:01	07:01
2004																		
2013	04:01	13:03	NT	NT	NT	NT	03:01	BLANK	NT	NT	NT	NT	02:01	BLANK	44:02	57:03	05:01	07:01
2015																		
2063	04:01	13:03	3*01:01/11	4*01	03:02/3	05:05/9	03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
2347	04	13	3	4	03	05	03:01	BLANK	01:01	17:01	02:01	BLANK	02	BLANK	44	57	05	07
2411	04:01	13:03					03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
2518	04	13	NT	NT	03	05	03	BLANK	01:01	17:01	02:01	BLANK	02	BLANK	44	57	05	07
2549	04:01	13:03	3*01	4*01	03:03	05:05	03:01	BLANK	01	17			02:01	BLANK	44:02	57:03	05:01	07:01
3248																		
3261	04:01	13:03	3*01:01	4*01:03			03:01	BLANK	01:01	17:01								
3264	04:01	13:03	NT	NT	03	05	03	BLANK	NT	NT			02	BLANK	44	57:07	NT	NT
3325	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK					02	BLANK	44	57		
3410	04:01	13:03					03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
3438	04:01	13:03					03:01	BLANK					02	BLANK	44	57	05	07
3522																		
3582	04:01	13:03	3*01:01	4*01	NT	NT	03	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05	07
3600	04	13	3	4	03	05	03	BLANK	01	17	02	BLANK	02	BLANK	44	57	05	07
3614	04:01	13:03					03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01
3625	04:01	13:03	3	4			03:01	BLANK	01:01	17:01			02:01	BLANK	44:02/19N	57:03	05:01	07:01
3807	04:01	13:03					03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07
3849	04:01	13:03	3*01	4*01	03:03	05:05	03:01	BLANK					02:01:01G	BLANK	44	57:03/7	05	07
4237																		
4281																		
4420	04:01	13:03/12					03:01	BLANK	01:01	17:01			02:01	BLANK	44:02/27	57:03	05:01	07
4545	04:01	13:03	3*01	4*01	03:03	05	03:01	BLANK	01:01	17:01:01G			02:01	BLANK	44:02/19N	57:03	05:01	07:01:01G
4551	04:01	13:03	3*01:01	4*01:03	03:02/3	05:05/9	03:01	BLANK	01:01	17:01	02:01	BLANK	02	BLANK	44	57	05	07
4585	04	13			03:02/3	05:05/9	03	BLANK					02	BLANK	44	57	05	07
4613	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	BLANK	44:02	57:03	05:01	07:01
4653	04	13	3*01:01	4*01:03	03	05	03:01	BLANK	01:01	17:01								
4709	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	44:02	57:03:01	05:01:01	07:01:02
5982																		
6051	04:01	13:03	3*01	4*01	03	05	03:01	BLANK	01:01	17:01	02:01	BLANK	02	BLANK	44	57	05	07
6313	04:01	13:03					03:01	BLANK					02:01	BLANK	44:02	57:03	05:01	07:01/6
9221	04	13	3	4	03	05	03	BLANK	01:01	17:01			02	BLANK	44	57	05	07
197H	04:01	13:03					03:01	BLANK	01:01	17:01			02:01	BLANK	44:02	57:03	05:01	07:01P
197L	04	13	3*01	4*01	03	05	03	BLANK			02	BLANK	02	BLANK	44	57	05	07
281H	04:01	13:03					03:01	BLANK	01:01	17:01	02:01	BLANK	02:01	BLANK	44:02	57:03	05:01	07:01
281L	04	13	3*01	4*01	03	05	03	BLANK	01	17	02	BLANK	02	BLANK	44	57	05	07
4582H	04:01	13:03	3*01:01	4*01:03	03:03	05:05	03:01	BLANK	01:01	17:01	02:01	BLANK	02:01	BLANK	44:02	57:03	05:01	07:01
4582L	04	13	3*01	4*01	03	05	03	BLANK	01	17	02	BLANK	02	BLANK	44	57	05	07

Table 10. Individual laboratory results for DNA #738

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	12	15	3*02	5*01	01	06	03	05					11	26	15	27	08	12
16	12:02	15:01	3*02:02:01G	5*01:01	01:02/8	06:01	03:01/27	05:02/17	02:01:02G	19:01	01:03	02:02/5	11:02:01/110	26:01:01	15:02:01	27:04:01	08:01/22	12:02
80	12	15	3*02	5*01:01	01	06:01	03	05:02	02:01	19:01	01:03	02:02	11	26	15	27	08	12
124	12:02	15:01	3*02	5*01:01	01:02	06:01	03:01	05:02	02:01	19			11	26:01	15:02	27:04	08	12:02
134	12:02	15:01	3*02:02	5*01:01			03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01	12:02
138	12:02	15:01	3*02	5*01	01	06	03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01	12:02
139	12	15											11	26	15	27		
142	12	15	3*02	5*01				03	05				11	26	15	27		
143	12:02	15:01					03:01	05:02					11:02/53	26:01	15:02	27:04	08:01/22	12:02
144	12:02	15:01			01:02	06:01/2	03:01:01G	05:02:01G					11:02:01G	26:01:01G	15:02:01G	27:04:01G	08:01:01G	12:02
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	12	15	NT	NT			NT	NT	NT	NT			11	26	15	27	NT	NT
151	12:01/2	15:01/4											11:02:01G	26:01	15:02	27:04		
152	12	15											11	26	15	27		
155													11:02	26:01	15:02	27:04	08:01	12:02
156	12:02	15:01	NT	NT	NT	NT	03:01	05:02	NT	NT	NT	NT	11:02	26:01	15:02	27:04	08:01	12:02
158	12:02	15:01	3*02:02	5*01:01	01	06:01	03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01	12:02
160																		
162	12:02:01	15:01:01					03:01:01	05:02:01					11:02:01	26:01:01	15:02:01	27:04:01	08:01:01	12:02:02
164	12	15											11	26	15	27		
168	12	15											11	26	15	27		
173	12:02	15:01			01:02	06:01	03:01	05:02					11	26				
174	12:02	15:01											11:02	26:01	15:02	27:04		
175	12:02	15:01					03	05					11:01	26:01	15:02	27:04	08	12
176	12:02	15:01					03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
185	12:02:01	15:01:01G					03	05:02:01					11:02:01G	26:01:01G	15:02:01G	27:04:01G	08:01/21	12:02/49
187	12:02	15:01	NT	NT	NT	NT	03:01	05:02	NT	NT	NT	NT	11:02P	26:01	15:02	27:04	08:01P	12:02
188	12:02	15:01																
189	12:02	15:01	3*02:02	5*01:01	01:02/8	06:01	03:01	05:02	NT	NT	NT	NT	11:02	26:01	15:02	27:04	08:01	12:02
190	12	15	3	5			03	05					11	26	15	27	08	12
192	12:02	15:01	3*02:02	5*01:01			03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01	12:02
193	12:02	15:01											11:02	26:01	15:02	27:04/69		
195																		
199	12	15	3	5			03	05										
201	12:02	15:01	3*02:02	5*01:01	01:02P	06:01	03:01	05:02	02:01	19:01			11:02P	26:01P	15:02	27:04P	08:01	12:02
205	12:02	15:01	3*02:02P	5*01:01	01:02P	06:01	03:01	05:02	02:01	19:01	01:03	02:02	11:02P	26:01	15:02	27:04	08:01	12:02
206	12	15											11	26	15	27		
207	12:02/37	15	NT	NT	NT	NT	03	05:02/17	NT	NT			11	26	15:02/214	27	08	12
208	12:02	15:01											11:02	26:01	15:02	27:04/69		
209	NT	NT	NT				NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
212																		
213	12:02	15:01	3*02:02	5*01:01	01:02	06:01	03:01	05:02	02:01/08:01	19:01/47:01			11:02	26:01	15:02	27:04	08:01	12:02
214													11:02:01	26:01:01	15:02:01	27:04:01	08	12
215	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT
218	12:02	15:01					03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
222	12	15	3*03	5*01			03	05					11	26	15	27		
223																		
225	12:02	15:01	3*01:01:02:01	5*01:01:01			03:01	05:01					11:01	26:01	15:02	27:04	08:01	12:02
226	12	15	3*02	5*01	01	06	03	05	02	19	01	02	11	26	15	27	08	12
227	12:02	15:01	NT	NT	NT	NT	03:01:01	05:02:01	NT	NT	NT	NT	11:02:01	26:01:01	15:02	27:04:01	08:01	12:02
228	12:02	15:01	3*02:02	BLANK			03:01	05:02										
229																		
230	12:02	15:01	3*02:02	5*01:01	01	06	03:01	05:02	02:01	19:01	01:03	02:02	11:02	26:01	15:02	27:04	08:01	12:02
232	12	15					03	05					11	26	15	27	08	12
234	NT	NT	NT	NT	NT	NT	03:01	05:02	NT	NT			11:02	26:01	15:02	27:04	NT	NT
237	12	15					03	05					11	26	15	27		
238	12:02:01	15:01:01G	3*02:02	5*01:01	01:02	06:01	03:01	05:02					11:02:01G	26:01:01G	15:02:01G	27:04:01G	08:01:01G	12:02:03
239	12	15	3	5	01:02	06:01	03	05	NT	NT	NT	NT	11	26	15	27	08	12
240	12:02	15:01			01:02	06:01	03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	12	15					03	05					11	26	15	27	08	12
245	12:02	15:01			01:02/8	06:01	03	05:02					11	26	15:02/214	27	08	12:02/49
246					01:02	06:01	03:01	05:02										
249	12:02:01	15:01:01					03:01:01	05:02:01	02:01:02	19:01			11:02:01	26:01:01	15:02:01	27:04:01	08:01:01	12:02:02
250	12	15	3	5			03	05					11	26	15	27	08	03
251	NT	NT					NT	NT					NT	NT	NT	NT		
252	12	15	3	5	NT	NT	03	05	NT	NT	NT	NT	11	26	15:02	27:04/6	08	12
255	12	15											11	26	15	27		
258																		
259																		
260																		
262	12:02	15:01	3*02:02	5*01:01	01:02	06:01	03:01	05:02					11	26	15	08	08	12
263	12:02	15:01	NT	NT	NT	NT	03:01	05:02	02:01	19:01	NT	NT	11:02	26:01	15:02	27:04	08:01	12:02
264	12:02:01	15:01:01G					03:01:01G	05:02:01G	02:01:02G	19:01:01G	01:03:01G	02:02:01	11:02:01G	26:01:01G	15:02:01G	27:04:01G	08:01:01G	12:02:01G
265	12:01/2	15:01/2	3*01:01/2	5*01:01/2	01:02/8	06:01	03:01/4	05:01/2	02:01	19:01	01:03	02:02	11:01/2	26:01/26	15:02/88	27:01/3	08:01	12:02/14
266	12	15	3	5			03	05					11	26	15	27	08	01
267	12:02	15:01	3*02:12	5*01:01	01:02	06:01	03:01	05:02	NT	NT	NT	NT	11:01	26:60N	15:02	27:04	08:01	12:02
268	12	15			01	06	03	05					11	26	15	09	02	07
271	12:01	15:01					03:01	05:01					11:01	26:19	15:02	27:04		
273	12:02	15:01	3*02:02	5*01:01	01:02	06:01	03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02

Table 10. Individual laboratory results for DNA #738

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
274	12:02	15:01			01:02	06:01	03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
275	12:01/2	15:04/1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11:02	26:01	15:02	27:04	NT	NT
276	12:02	15:01	3*02:02:01G	5*01:01	01:02:01G	06:01	03:01	05:02	02:01	19:01			11:02:01G	26:01	15:02	27:04	08:01:01G	12:02
278	12:02	15:01	3*02:02	5*01:01	01:02/8	06:01	03:01	05:02	02:01	19:01	01:03	02:02	11:02	26:01	15:02	27:04	08:01	12:02
279	12:02	15:01			01	06:01	03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01	12:02
280	12:02	15:01					03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
282	12	15	3*02:12	5*01:01	01:02	06:01	03	05:02	NT	NT	NT	NT	11	26	15	27	08	12
283	12	15	NT	NT	NT	NT	03	05	NT	NT	NT	NT	11	26	15	27	08	12
401	12:02	15:01			01	06:01	03:01/29	05:02	02:01	19:01			11	26	15	27	08	12
452	12:02	15:01	3*02:02	5*01:01	NT	NT	03:01	05:02	02:01	19:01	NT	NT	11:02	26:01	15:02	27:04	08:01	12:02
519																		
615	12:02	15:01:01G	3*02:02:01G	5*01:01			03:01	05:02:01G	02:01	19:01:01G			11:02:01G	26:01:01G	15:02:01G	27:04:01G	08:01:01G	12:02:01G
616	12	15					03	05					11	26	15	27	08	12
635	12	15	3	5			03	05					11	26	15	27	08	12
702	12:02	15:01	3*02:02	5*01:01	01:02	06:01	03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01	12:02
714	12:02	15:01	NT	NT	NT	NT	03:01	05:02	NT	NT	NT	NT	11:02	26:01	15:02	27:04	08:01	12:02
726	12	15	3*02	5*01	01	06	03	05	02	19	01	02	11	26	15	27	08	12
732	12:02:01	15:01	3*02	5*01:01:01	01	06	03	05:02:01					11:02/110	26:01:01	15:02:01	27:04:01	08:01/22	12:02:02
769	12:02	15:01	3*02:02:01G	5*01:01			03:01	05:02	02:01P	19:01P			11:02P	26:01	15:02	27:04	08:01	12:02
805	12:02	15:01	NT	NT	NT	NT	03:01	05:02	NT	NT	NT	NT	11:02	26:01	15:02	27:04	08:01	12:02
1113	12:02	15:01	3*02:02	5*01:01	01	06:01	03:01	03:02	02:01	19:01			11:02/110	26:01	15:02	27:04	08:01	12:02
1189	12:02	15:01/86	3*02:02	5*01:01	01	06:01	03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01/22	12:02
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1498	12:02:01	15:01	3*02:02:01G	5*01:01	01:02:01G	06:01	03:01:01G	05:02/14	02:01/123:01	19:01			11:02/110	26:01	15:02	27:04	08:01/22	12:02
1647	12:02	15:01	3	5	01	06	03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01	12:02
1686	12:01	15:01	3*02:02	5*01:01	01:02	06:01	03:01	05:02	02:01	19:01	01:03	02:02	11:02	26:01	15:02	27:04	08:01	12:02
1905	12:02	15:01	3*02	5*01:01			03:01	05:02	02:01P	19:01P	01:03	02:02	11:02P	26:01	15:02	27:04	08:01	12:02
2004																		
2013	12:02	15:01	NT	NT	NT	NT	03:01	05:02	NT	NT	NT	NT	11:02	26:01	15:02	27:04	08:01	12:02
2015																		
2063	12:02	15:01	3*02	5*01:01	01	06:01	03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
2347	12	15	3	5	01	06	03:01	05:02	02:01	19:01	01:03	02:02	11	26	15:02	27	08	12
2411	12:02	15:01					03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
2518	12	15	NT	NT	01	06:01	03	05:02	02:01	19:01	01:03	02:02	11	26	15	27	08	12
2549	12:02	15:01	3*02	5*01	01:02	06:01	03:01	05:02	02	19			11:02	26:01	15:02	27:04	08:01	12:02
3248																		
3261	12:02	15:01	3*02:02	5*01:01			03:01	05:02	02:01	19:01								
3264	12:02	15:01	NT	NT	01	06:01	03	05:02	NT	NT			11	26	15	27	NT	NT
3325	12:02	15:01	3*02:02	5*01:01	01:02	06:01	03:01	05:02					11	26	15	27		
3410	12:02	15:01					03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
3438	12:02	15:01					03:01	05:02					11:02	26:01	15:02	27:04	08:01	12:02
3522																		
3582	12:02	15:01	3*02	5*01:01	NT	NT	03:01	05:02	02:01	19:01			11:02/110	26:01	15:02	27:04	08:01/21	12:02/49
3600	12	15	3	5	01	06	03	05	02	19	01	02	11	26	15	27	08	12
3614	12:02	15:01			01	06:01	03:01	05:02					11:02	26:02	15:02	27:04	08:01	12:02
3625	12:02	15:01	3	5			03:01	05:02	02:01	19:01/106:01			11:02/110	26:01	15:02	27:04	08:01/21	12:02/49
3807	12:02	15					03:01	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01/22	12:02
3849	12:02	15:01	3*02	5*01:01	01:02/8	06:01	03:01	05:02					11:02:01G	26:01:01G	15:02:01G	27:04:01G	08:01:01G/21	12:02/49
4237																		
4281																		
4420	12:02	15:01					03	05:02	02:01	19:01			11:02	26:01	15:02	27:04	08:01/22	12:02
4545	12:02	15:01	3*02	5*01:01	01:02:01G	06:01	03:01	05:02	02:01	19:01:01G			11:02/110	26:01	15:02	27:04	08:01/22	12:02
4551	12:02	15:01	3*02:02	5*01:01	01:02/8	06:01	03:01	05:02	02:01	19:01	01:03	02:02	11:02:01G	26:01	15:02	27:04	08:01:01G	12:02
4585	12	15			01:02/8	06:01	03	05:02					11	26	15	27	08	12
4613	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11:02	26:01	15:02	27:04	08:01	12:02
4653	12	15	3*02:02	5*01:01	01	06:01	03:01	05:02	02:01	19:01								
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15:02:01	27:04:01	08:01:01	12:02:02
5982																		
6051	12:02	15:01	3*02	5*01	01	06	03:01	05:02	02:01	19:01	01:03	02:02/5	11	26	15:02	27	08	12
6313	12	15					03	05					11	26	15	27:04/6	08	12
9221	12	15	3	5	01	06:01	03	05:02	NT	NT			11	26	15	27:04	08	12
197H	12:02	15:01					03:01	05:02	02:01	19:01			11:02P	26:01	15:02	27:04	08:01P	12:02
197L	12	15	3*02	5*01:01	01	06:01	03	05:02					11	26	15	27	08	12
281H	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
281L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4582H	12:02	15:01	3*02:02	5*01:01	01:02	06:01	03:01	05:02	02:01	19:01	01:03	02:02	11:02	26:01	15:02	27:04	08:01	12:02
4582L	12	15	3*02	5*01	01	06	03	05	02	19	01	02	11	26	15	27	08	12

Table 11. Individual laboratory results for DNA #739

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
274	03:01/56	07:01/18			02:01	05:01	02:01	02:02					01:01	30:02	08:01/58	15:03	02:10	07:01
275	03:01	07:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	30:02	08:01	15:03	NT	NT
276	03:01	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03:01G	02:10	07:01:01G
278	03:01	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02	01:03	02:01	01:01	30:02	08:01	15:03	02:02/10	07:01
279	NT	NT			NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
280	03:01	07:01			02:01	05:01	02:01	02:02					01:01	30:02	08:01	15:03	02:10	07:01
282	03	07	3*01	4*01	02:01	05:01	02:01	02:02	NT	NT	NT	NT	01	30	08	15	02	07
283	03	07	NT	NT	NT	NT	02	02	NT	NT	NT	NT	01	30	08	15	02	07
401	03	07:01			02:01	05:01	02:01	02:02	01:01	02:02								
452	03:01	07:01	3*01:01	4*01:01	NT	NT	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03	02:10	07:01
519																		
615	03:01:01G	07:01:01G	3*01:01:02G	4*01:01			02:01	02:02	01:01	02:02			01:01:01G	30:02:01G	08:01:01G	15:03:01G	02:10	07:01:01G
616	03	07											01	30	08	15	02	07
635	03	07	3	4			02						01	30	08	15	02	07
702	03:01	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03	02:10	07:01
714	03:01	07:01	NT	NT	NT	NT	02:01	02:02	NT	NT	NT	NT	01:01	30:02	08:01	15:03	02:10	07:01
726	03	07	3*01	4*01	02	05	02	02	01	02			01	30	08	15	02	07
732	03:01:01	07:01:01	3*01:01:02	4*01:01:01	02	05	02:01	02:02					01:01:01	30:02:01	08:01	15	02:10	07
769	03:01/68N	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03P	02:10	07:01
805	03:01	07:01	NT	NT	NT	NT	02:01	02:02	NT	NT	NT	NT	01:01	30:02	08:01	15:03	02:10	07:01:01G
1113	03:01/68N	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03/220	02:10	07:01
1189	03:01	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03:01G	02:10	07:01
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1498	03:01:01	07:01:01	3*01:01/12	4*01:01:01	02:01	05:01	02:01/7	02:02/6	01:01	02:02			01:01/1N	30:02	08:01	15:03:01G	02:10	07:01:01G
1647	03:01	07:01	3	4	02	05	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03	02:10	07:01
1686	03:01	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02	01:03	02:01	01:01/6	30:02	08:01	15:03	02:10	07:01
1905	03:01	07:01	3*01:01/11	4*01:01P			02:01	02:02	01:01	02:02	01:03	02:01	01:01	30:02	08:01	15:03	02:10	07:01
2004																		
2013	03:01	07:01	NT	NT	NT	NT	02:01	02:02	NT	NT	NT	NT	01:01	30:02	08:01	15:03	02:10	07:01
2015																		
2063	03:01	07:01	3*01:01/11	4*01	02:01	05:01	02:01	02:02					01:01	30:02	08:01	15:03	02:10	07:01
2347	03:01	07	3	4	02	05	02:01	02:02	01:01	02:02	01:03	02:01	01	30	08	15:03	02	07
2411	03:01	07:01					02:01	02:02					01:01	30:02	08:01	15:03	02:02	07:01
2518	03	07	NT	NT	02:01	05:01	02:01	02:02	01:01	02:02	01:03	02:01	01	30	08	15	02	07
2549	03:01	07:01	3*01	4*01	02:01	05:01	02:01	02:02	01	02			01:01	30:02	08:01	15:03	02:10	07:01
3248																		
3261	03:01	07:01	3*01:01	4*01:01			02:01	02:02	01:01	02:02								
3264	03:01/83	07:01	3*01:01	4*01:01	NT	NT	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03/220	02:10	07:01
3325	03:01	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02					01	30	08	15		
3410	03:01	07:01					02:01	02:02					01:01	30:02	08:01	15:03	02:10	07:01
3438	03:01	07:01					02:01	02:02					01	30	08	15	02	07
3522																		
3582	03:01	07:01	3*01:01	4*01	NT	NT	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03	02:10/16	07:01/22
3600	03	07	3	4	02	05	02	02	01	02	01	02	01	30	08	15	02	07
3614	03:01	07:01			02:01	05:01	02:01	02:02					01:01	30:02	08:01	15:03	02:10	07:01
3625	03:01	07:01	3	4			02:01	02:02	01:01	02:02			01:01	30:02	08:01	15	02	07:01
3807	03:01	07:01					02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03	02:10	07
3849	03	07:01	3*01	4*01	02:01	05:01	02:01	02:02					01:01:01G	30:02:01G	08	15	02	07
4237																		
4281																		
4420	03:01	07:01					02:01/2	02:01/2	01:01	02:02			01:01	30:02	08:01	15:03	02:02/10	07
4545	03:01	07:01	3*01	4*01	02:01	05:01	02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03:01G	02:10	07:01:01G
4551	03:01	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02	NT	NT	01:01:01G	30:02	08:01	15:03	02:10	07:01
4585	03	07			02:01	05:01	02:01	02:02					01	30	08	15	02	07
4613	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01/102	30:02	08:01	15:03	02:10	07:01/166
4653	03	07	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02			NT	NT	NT	NT	NT	NT
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	08:01:01	15:03:01	02:10	07:01:01
5982																		
6051	03:01	07:01	3*01	4*01	02	05	02:01/7	02:02	01:01	02:02	01:03	02:01	01	30	08	15:03	02	07
6313	03	07					02:01	02:02					01	30	08	15	02	07
9221	03:01	07	3	4	02:01	05:01	02	02:02	NT	NT			01	30	08	15:03	02	07
197H	03:01	07:01					02:01	02:02	01:01	02:02			01:01	30:02	08:01	15:03P	02:10	07:01P
197L	03	07	3*01	4*01	02:01	05:01	02:01	02:02			01:03	02	01	30	08	15	02	07
281H	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
281L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4582H	03:01	07:01	3*01:01	4*01:01	02:01	05:01	02:01	02:02	01:01	02:02	01:03	02:01	01:01	30:02	08:01	15:03	02:10	07:01
4582L	03	07	3*01	4*01	02	05	02	02	01	02	01	02	01	30	08	15	02	07

Table 12. Individual laboratory results for DNA #740

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus		
274	04:01	09:01/11			03:02	03:03	03:01	03:03					24:02	31:01/50	38:01	51:01	12:03/34	14:02	
275	04:01	09:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	24:02	31:01	38:01	51:01	NT	NT
276	04:01	09:01	4*01:03	BLANK	03:02	03:03	03:01	03:03	02:01	05:01			24:02	31:01	38:01	51:01	12:03	14:02	
278	04:01	09:01	4*01:03	BLANK	03:02/3	03:02/3	03:01	03:03	02:01	05:01	01:03	02:02	24:02	31:01	38:01	51:01	12:03	14:02	
279	NT	NT			NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT	
280	04:01	09:01					03:01	03:03					24:02	31:01	38:01	51:01	12:03	14:02	
282	04	09	4*01	BLANK	03	03	03	03	NT	NT	NT	NT	24	31	38	51	12	14	
283	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT	24	31	38	51	12	14	
401	04:01	09:01			03		03:01/29	03:03	02:01	05:01			24	31	38	51	12	14	
452	04:01	09:01	4*01:03	BLANK	NT	NT	03:01	03:03	02:01	05:01	NT	NT	24:02	31:01	38:01	51:01	12:03	14:02	
519																			
615	04:01	09:01	4*01	BLANK			03:01	03:03:02G	02:01	05:01:01G			24:02:01G	31:01:02G	38:01	51:01:01G	12:03:01G	14:02:01G	
616	04	09											24	31	38	51	12	14	
635	04	09	4	BLANK			03						24	31	38	51	12	14	
702	04:01	09:01	4*01:03	BLANK	03:02	03:03	03:01	03:03	02:01	05:01			24:02	31:01	38:01	51:01	12:03	14:02	
714	04:01	09:01	NT	NT	NT	NT	03:01	03:03	NT	NT	NT	NT	24:02	31:01	38:01	51:01	12:03	14:02	
726	04	09	4*01	BLANK	03		03	03	02	05	01	02	24	31	38	51	12	14	
732	04:01:01	09:01:02	4*01:03:01	BLANK	03		03	03:03/31					24:02	31:01:02	38:01:01	51:01:01	12:03:01	14:02:01	
769	04:01	09:01	4*01:03	BLANK			03:01	03:03	02:01P	05:01P			24:02	31:01	38:01	51:01	12:03	14:02	
805	04:01	09:01	NT	NT	NT	NT	03:01	03:03	NT	NT	NT	NT	24:02	31:01	38:01	51:01	12:03	14:02	
1113	04:01	09:01	4*01:03	BLANK	03:02/3	03:02/3	03:01	03:03	02:01	05:01			24:02	31:01	38:01	51:01	12:03	14:02	
1189	04:01	09:01/20	4*01:03	BLANK	03:02/3	03:02/3	03:01	03:03	02:01	05:01			24:02	31:01	38:01	51:01	12:03	14:02	
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
1498	04	09:01:02	4*01:03	BLANK	03:02	03:03	03:01:01G	03:03:02G	02:01/123:01	05:01			24:02/2L	31:01	38:01	51:01	12:03	14:02	
1647	04:01	09:01	4	BLANK	03		03:01	03:03	02:01	05:01			24:02	31:01	38:01	51:01	12:03	14:02	
1686	04:01	09:01	4*01:03	BLANK	03:02	03:02/3	03:01	03:03	02:01	05:01	01:03	02:02	24:02	31:01	38:01/32	51:01	12:03	14:02	
1905	04:01	09:01	4*01	BLANK			03:01	03:03	02:01	05:01	01:03	02:02	24:02	31:01	38:01	51:01	12:03	14:02	
2004																			
2013	04:01	09:01	NT	NT	NT	NT	03:01	03:03	NT	NT	NT	NT	24:02	31:01	38:01	51:01	12:03	14:02	
2015																			
2063	04:01	09:01	4*01	BLANK	03:02/3	03:02/3	03:01	03:03					24:02	31:01	38:01	51:01	12:03	14:02	
2347	04	09	4	BLANK	03	03	03:01	03:03	02:01	05:01	01:03	02:02	24	31	38	51	12	14	
2411	04:01	09:01					03:01	03:03					24:02	31:01	38:01	51:01	12:03	14:02	
2518	04	09	NT	NT	03		03		02:01	05:01	01:03	02:02	24	31	38	51	12	14	
2549	04:01	09:01	4*01	BLANK	03:02	03:03	03:01	03:03	02	05			24:02	31:01	38:01	51:01	12:03	14:02	
3248																			
3261	04:01	09:01	4*01:03	BLANK			03:01	03:03	02:01	05:01									
3264	04:01	09:01	4*01:03	BLANK	NT	NT	03:01	03:03	02:01	05:01			24:02	31:01	38:01	51:01	12:03/24	14:02/16	
3325	04:01	09:01	4*01:03	BLANK	03:02	03:03	03:01	03:03					24	31	38	51			
3410	04:01	09:01					03:01	03:03					24:02	31:01	38:01	51:01	12:03	14:02	
3438	04:01	09:01					03:01	03:03					24	31	38	51	12	14	
3522																			
3582	04	09	4*01	BLANK	NT	NT	03:01	03:03	02:01	05:01			24:02	31:01	38:01/33	51:01/57	12:03/24	14:02/16	
3600	04	09	4	BLANK	03		03	03	02	05	01	02	24	31	38	51	12	14	
3614	04:01	09:01			03	03	03:01	03:03					24:02	31:01	38:01	51:01	12:03	14:02	
3625	04	09	4	BLANK			03:01	03:03	02:01	05:01			24:02	31:01	38:01	51:01	12:03/24	14:02/16	
3807	04:01	09:01					03:01	03:03	02:01	05:01			24:02	31:02	38:01	51:01	12:03/24	14:02/16	
3849	04:01	09:01	4*01	BLANK	03:02	03:03	03:01	03:03					24	31	38	51	12:03:01G/24	14:02:01G/16	
4237																			
4281																			
4420	04:01	09:01					03:01	03:02	02:01	05:01			24:02	31:01/2	38:01	51:01	12:03	14:02	
4545	04:01	09:01	4*01	BLANK	03:02	03:03	03:01	03:03	02:01	05:01:01G			24:02	31:01	38:01	51:01	12:03	14:02	
4551	04:01	09:01	4*01:03	BLANK	03:02/3	03:02/3	03:01	03:03	02:01	05:01	NT	NT	24:02:01G	31:01	38:01	51:01	12:03:01G	14:02	
4585	04	09			03:02/3	03:02/3	03	03					24	31	38	51	12	14	
4613	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	24:02	31:01	38:01	51:01	12:03	14:02	
4653	04	09	4*01:03	BLANK	03		03:01	03:03	02:01	05:01									
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	38:01:01	51:01:01	12:03:01	14:02:01	
5982																			
6051	04:01	09:01	4*01	BLANK	03:02/3	03:02/3	03:01	03:03	02:01	05:01	01:03	02:02/5	24	31	38	51	12	14	
6313	04	09					03	03					24	03	38	51	12	14	
9221	04	09	4	BLANK	03		03:01	03:03	NT	NT			24	31	38	51	12	14	
197H	04:01	09:01					03:01	03:03	02:01	05:01P			24:02	31:01	38:01	51:01	12:03	14:02	
197L	04	09	4*01	BLANK	03		03	03			01:03	02:02	24	31	38	51	12	14	
281H	NT	NT					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
281L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
4582H	04:01	09:01	4*01:03	BLANK	03:02	03:03	03:01	03:03	02:01	05:01	01:03	02:02	24:02	31:01	38:01	51:01	12:03	14:02	
4582L	04	09	4*01	BLANK	03	03	03	03	02	05	01	02	24	31	38	51	12	14	

PARTICIPANTS AND METHODS

CENTER	DRB1	DRB3/4/5	DQA1	DQB1	DPB1	DPA1	A-Locus	B-Locus	C-Locus
7									
16	SBT-At,SSO-OL	SSO-OL,SSP-Life	SSO-OL	SSO-OL	SBT-At,SSO-OL	SSO-OL	SBT-At,SSO-OL	SBT-At,SSO-OL	SBT-At,SSO-OL
80	SSO-OL	SSP-OL					SSO-OL		
124	SBT-Inh	SBT-Inh	SBT-Inh	SBT-Inh	SBT-Inh		SBT-Inh	SBT-Inh	SBT-Inh
134	SBT,SSO,SSP	SSP-Geno		SSO-OL,SSP-Geno	SBT-At,SSP-Geno		SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
138	SBT,SSO,SSP	SSO-Oli	SSOP;qPCR-OLI;LB	SBT,SSO,SSP	SBT,SSO,SSP		SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
139	SSO-Lum						SSO-Lum	SSO-Lum	
142	SSO	SSO		SSO			SSO		SSO
143	SBT-Invit			SBT-Invit			SBT-Invit	SBT-Invit	SBT-Invit
144	SBT-Pro		SSO-Gen	SBT-Pro			SBT-Pro	SBT-Pro	SBT-Pro
147									
148	SBT-At,SSP-Biof	SBT(GenDx)		SBT-Pro	SBT-At		SBT-At,SSP-Biof	SBT-At,SSP-Biof	SBT-At
151	SBT-Invit						SBT-Invit	SBT-Invit	
152	SSP-OL						SSP-OL	SSP-OL	
155							SBT,SSP-Life	SBT,SSP-Life	SBT,SSP-Life
156	SBT-Abb,SSP-Ole			SBT-Abb,SSP-Ole			SBT-Abb,SSP-Ole	SBT-Abb,SSP-Ole	SBT-Abb,SSP-Ole
158	SSO-OL	SSP-Invit	SSO-Lum,Ing	SSP-OL	SSP-Invit		SSP-Bion,Ole	SSP-Bion,Ole	SSP-Bion,Ole
160									
162	SBT,SSP-Bios			SBT,SSP-Bios			SBT,SSP-Bios	SBT,SSP-Bios	SBT,SSP-Bios
164	LIPA						LIPA	LIPA	
168	SSO-Wak						SSO-Wak	SSO-Wak	
173	SBT-At,SSO-Lum		SSO-Lum,Dy	SSO-Lum,Dy			SSO-Lum		
174									
175	SBT-Invit,SSO-Inno			SSO-Inno			SSO-Inno,SSP-Invit	SSO-Inno,SSP-Invit	SSO-Inno
176	SBT-Cap			SBT-Cap			SBT-Cap	SBT-Cap	SBT-Cap
185	SBT-Inh			SBT-Inh			SBT-Inh	SBT-Inh	SBT-Inh
187	SBT,SSO-Lab			SBT			SBT,SSO-Lab	SBT,SSO-Lab	SBT,SSO-Lab
188	SOOneLambda,SBTVoden								
189	SSO-Oli	SSO-Oli	SSO-Oli	SSO-Oli			SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
190	SSO-Life	SSO-Life		SSO-Life			SSO-Life	SSO-Life	SSO-Life
192	SSP,SBT,NGS	SSP		SSP,SBT,NGS	SSP,SBT,NGS		SSP,SBT,NGS	SSP,SBT,NGS	SSP,SBT,NGS
193	SSO-OL						SSO-OL	SSO-OL	
195									
199									
201	SSO-OL,SSP-Invit	SSP-Invit,Ole	SSP-Invit	SSP-Ole	SSP-Invit		SSO-OL,SSP-Invit	SSO-OL,SSP-Invit	SSP-Invit
205	SBT,SSO,SSP	SSO-OL,SSP-Invit	SSO-OL,SSP-Invit	SBT,SSO,SSP	SBT,SSO,SSP	SSO-OL,SSP-Invit	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
206	SSO-OL						SSO-OL		
207	SBT,SSO,SSP	SSP	SSO	SBT,SSO,SSP	PCRSSO+SSP		SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
208	SSO-Lab						SSO-Lab	SSO-Lab	
209	SSP-Bio,Ole,OL	SSP-Ole		SSP-Bio,Ole,OL	SSP-Bio,Ole,OL		SSP-Bio,Ole,OL	SSP-Bio,Ole,OL	SSP-Bio,Ole,OL
212									
213	SSP-Ole	SSP-Ole	SSP-Ole	SSP-Ole	SSP-Ole		SSP-Ole	SSP-Ole	SSP-Ole
214							Custom	Custom	Custom
215	SSP-Biot	SSP-Biot					SSP-Biot	SSP-Biot	SSP-Biot
218	SSP,SBT,NGS			SSP,SBT,NGS			SSP,SBT,NGS	SSP,SBT,NGS	SSP,SBT,NGS
222	SSP-Invit	SSP-Invit		SSP-Invit			SSP-Invit	SSP-Invit	
223									
225	SSO-Lum,SSP-Invit	SSO-Lum,SSP-Invit		SSO-Lum,SSP-Invit			SSO-Lum,SSP-Invit	SSO-Lum,SSP-Invit	SSO-Lum,SSP-Invit
226	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab
227	SBT-Abb,SSO-OL			SBT-Abb,SSO-OL			SBT-Abb,SSO-OL	SBT-Abb,SSO-OL	SBT-Abb,SSO-OL
228	SSP-Dy	SSP-Dy		SSP-Bag					
229									
230	SSO-OL	SBT-Life	SSP-Ole				SSO-OL	SBT-Life	SSP-Ole
232	SSO-Lum			SSO-Lum			SSO-Lum	SSO-Lum	SSO-Lum
234	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
237	SSP-Uni	SSP-Uni	SSP-Uni	SSP-Uni	SSP-Uni		SSP-Uni	SSP-Uni	SSP-Uni
238	SBT-Pro,SSP-Invit	SSP-Ole	SSP-Ole	SSP-Ole			SBT-Pro,SSP-Invit	SBT-Pro,SSP-Invit	SBT-Pro,SSP-Invit
239	SSP-OL	SSP-OL	SSP-OL	SSP-OL			SSP-OL	SSP-OL	SSP-OL
240	SSO,SSP-OL		SSO,SSP-OL	SSO,SSP-OL		SSP-OL	SSO,SSP-OL	SSO-OL	SSO-OL
242	SSP-Ole		SSP-Ole	SSP-Ole			SSP-Ole	SSP-Ole	SSP-Ole
244	SSO-His			SSO-His			SSO-His	SSO-His	SSO-His
245	SSO-OL		SSO-OL	SSO-OL			SSO-OL	SSO-OL	SSO-OL
246			SSO-Lum,SSP	SSO-Lum,SSP					
249	SBT-Bwu			SBT-Bwu	SBT-Bwu		SBT-Bwu	SBT-Bwu	SBT-Bwu
250	SSP-Invit	SSP-Invit		SSP-Invit			SSP-Invit	SSP-Invit	SSP-Invit
251	SSP						SSP		
252	SSP-Invit,Uni	SSP-Invit,Uni		SSP-Invit,Uni			SSP-Invit,Uni	SSP-Invit,Uni	SSP-Invit,Uni
255	SSO-OL						SSO-OL		
258									
259									
260									
262	SSO,SSP	SSP-Ole	SSP-Pro	SSP-Pro			SSO,SSP	SSO,SSP	SSO,SSP
263	SSO-Tep			SSO-Tep	SSO-Tep		SSO-Tep	SSO-Tep	SSO-Tep
264	SBT			SBT	SBT	SBT	SBT	SBT	SBT
265	SSP-Micro,OL	SSP-Micro,OL	SSO-Lab,OL	SSP-Micro,OL	SSO-Lab,OL	SSO-Lab,OL	SSP-Micro,OL	SSP-Micro,OL	SSP-Micro,OL

