UCLA International HLA DNA Exchange—121st Summary

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Arlene Locke and John Muramoto
J. Michael Cecka, Ph.D, David Gjertson, Ph.D, and Elaine F. Reed, Ph.D

DNA Sample	
#747	#750
#748	#751
#749	#752

DNA #747 Hispanic

The consensus type for this sample from a Hispanic donor is A*02:01-A*02:06-B*07:02-B*40:02-C*03:08-C*07:02-DRB1*04:11-DRB1*15:01-DRB4*01:03-DRB5*01:01-DQA1*01:02-DQA1*03:01-DQB1*03:02-DQB1*06:02-DPB1*04:01-DPB1*04:02-DPA1*01:03.

This sample was previously sent in Exchange #25 as DNA #171 (1997). In 2007, C*03:04 was detected by 82%. In this present retyping, C*03:08 was detected by 96% of labs reporting at high resolution. C*03:08 was assigned in 1998. C*03:08 differs from C*03:04 in exon 2 at codon 66 by a single nucleotide substitution (AAG -> AAC), resulting in an amino acid change from lysine to asparagine. According to the NMDP Bioinformatics website, the rare C*03:08-B*40:02 association in this sample is observed exclusively in Hispanics, with HF=0.00025.

The results for DNA #747 are summarized in Table 1 and individual laboratory results are listed in Table 7.

DNA #748 Black

The consensus type for this Black donor is A*01:01-A*02:01-B*35:01-B*37:01-C*04:01-C*06:02-DRB1*10:01-DRB*15:03-DRB5*01:01-DQA1*01:02-DQA1*01:05-DQB1*05:01-DQB1*06:02-DPB1*02:01-DPB1*13:01-DPA1*01:03-DPA1*02:01.

This sample was previously sent in Exchange #29 as DNA #193 (1998). In 1998, DQA1*01:04 was assigned by 50%. In this present retyping, DQA1*01:05 was assigned by 83% by labs reporting at high resolution. DQA1*01:05 differs from DQA1*01:04 in exon 4 at codon 199 by a single nucleotide substitution (ACC -> GCC), resulting in an amino acid change from threonine to alanine.

The results for DNA #748 are summarized in Table 2 and individual laboratory results are listed in Table 8.

DNA #749 Caucasian

The consensus type for this sample from a Caucasian donor is A*02:05-B*50:01-C*06:02-DRB1*07:01-DRB4*01:03-DQA1*02:01-DQB1*02:02-DPB1*04:02-DPA1*01:03. The A*02:05-B*50:01-DRB1*07:01 association in this cell is observed in Caucasians, with HF=0.00296.

The results for DNA #749 are summarized in Table 3 and individual laboratory results are listed in Table 9.

DNA Sample	
#747	#750
#748	#751
#749	#752

DNA #750 Hispanic

The consensus type for this sample from a Hispanic donor is A*31:01-A*33:03-B*40:02-B*58:01-C*03:02-C*03:04-DRB1*11:01-DRB1*13:02-DRB3*02:02-DRB3*03:01-DQA1*01:02-DQA1*05:05-DQB1*03:01-DQB1*06:09-DPB1*02:01-DPB1*05:01-DPA1*01:03-DPA1*02:02.

The results for DNA #750 are summarized in Table 4 and individual laboratory results are listed in Table 10.

DNA #751 Asian

The consensus type for this sample from an Asian donor is A*02:07-A*33:03-B*46:01-B*58:01-C*01:02-C*03:02-DRB1*03:01-DRB1*04:05-DRB3*02:02-DRB4*01:03-DQA1*03:03-DQA1*05:01-DQB1*02:01-DQB1*04:01-DPB1*01:01-DPB1*04:02-DPA1*01:03-DPA1*02:02.

The likely associations in this cell, A*02:07-B*46:01-DRB1*04:05 and A*33:03-B*58:01-DRB1*03:01, are observed exclusively in Asians, with respective frequencies of HF=0.00253 and HF=0.02335.

The results for DNA #751 are summarized in Table 5 and individual laboratory results are listed in Table 11.

DNA #752 Caucasian

The consensus type for this sample from a Caucasian donor is A*01:01-A*24:02-B*08:01-B*40:01-C*03:04-C*07:01-DRB1*03:01-DRB1*12:01-DRB3*01:01-DRB3*02:02-DQA1*05:01-DQA1*05:05-DQB1*02:01-DQB1*03:01-DPB1*02:01-DPB1*04:01-DPA1*01:03.

Low consensus was achieved for DQA1*05:05 in which only 71% of the labs reporting at high resolution detected this allele. Seven labs were unable to resolve DQA1*05:05 from either DQA1*05:01 or DQA1*05:11.

The results for DNA #752 are summarized in Table 6 and individual laboratory results are listed in Table 12.

Table 1. Summary of the 121st DNA Exchange (DNA #747)

A				B				C			
	106 labs	% (n)			106 labs	% (n)			91 labs	% (n)	
A*02:01:01	4 (4)	A*02:06:01	5 (6)	B*07:02:01	2 (2)	B*40:02:01	5 (5)	C*03:08	55(50)	C*07:02:01	1 (1)
A*02:01:01G	6 (6)	A*02:06:01G	3 (3)	B*07:02:01G	9 (9)	B*40:02:01G	1 (1)	*C*03:04*	*8 (7)*	C*07:02:01G	6 (5)
A*02:01P	1 (1)	A*02:06	51(54)	B*07:02P	2 (2)	B*40:02	51(53)	*C*03:04+*	4 (4)	C*07:02P	4 (4)
A*02:01	45(48)	A*02:06+	1 (1)	B*07:02	41 (43)	B*40:02+	3 (3)	C*03	32 (29)	C*07:02	37(34)
A*02:01+	5 (5)	*A*02:01+*	1 (1)	B*07:02+	3 (3)	B*40	39(40)	*BLANK*	1 (1)	*C*07:19*	4 (4)
A*02	39(42)	A*02	37(39)	B*07	43(45)	*BLANK*	2 (2)			*C*07:01*	2 (2)
		*A*03*	1 (1)							C*07:02+	9 (8)
		*A*24*	1 (1)							C*07	36(33)

DRB1				DRB3/4/5				DQA1			
	109 labs	% (n)			56 labs	% (n)			55 labs	% (n)	
DRB1*04:11:01	6 (6)	DRB1*15:01:01	1 (1)	*DRB4*01:01:01:01*	2 (1)	DRB5*01:01:01	7 (4)	DQA1*01:02:01G	7(4)	DQA1*03:01:01	4 (2)
DRB1*04:11	66 (72)	DRB1*15:01:01G	3 (3)	DRB4*01:01:01G	2 (1)	DRB5*01:01	57(32)	DQA1*01:02P	2 (1)	DQA1*03:01	35(19)
DRB1*04:03+	2 (1)	DRB1*15:01	59(64)	DRB4*01:03:01	4 (2)	DRB5*01	18(10)	DQA1*01:02	31(17)	DQA1*03:01+	6 (3)
DRB1*04:01+	1 (1)	DRB1*15:01+	5 (5)	DRB4*01:03	41(23)	DRB5*Present	18(10)	DQA1*01:02+	6 (3)	DQA1*03	56(31)
DRB1*04	27(29)	DRB1*15	33(36)	*DRB4*01:01*	2 (1)			DQA1*01	55(30)		
				DRB4*01	32(18)						
				DRB4*Present	18(10)						

DQB1				DPB1				DPA1			
	99 labs	% (n)			50 labs	% (n)			25 labs	% (n)	
DQB1*03:02:01	4 (4)	DQB1*06:02:01	4 (4)	DPB1*04:01:01	6 (3)	DPB1*04:02:01	6 (3)	DPA1*01:03:01G	4 (1)		
DQB1*03:02:01G	2 (2)	DQB1*06:02:01G	2 (2)	DPB1*04:01:01G	20(10)	DPB1*04:02:01G	22(11)	DPA1*01:03	72 (18)		
DQB1*03:02	61(60)	DQB1*06:02	57(56)	DPB1*04:01P	8 (4)	DPB1*04:02P	8 (4)	DPA1*01:03+	4 (1)		
DQB1*03:02+	6 (6)	DQB1*06:02+	8 (8)	DPB1*04:01	48(24)	DPB1*04:02	48(24)	DPA1*01	20 (5)		
DQB1*03	26(26)	DQB1*06:01+	1 (1)	DPB1*04:01+	8 (4)	DPB1*04:02+	6 (3)				
*DQB1*05*	1 (1)	DQB1*06	28(28)	DPB1*04	10 (5)	DPB1*04	10(5)				

Table 2. Summary of the 121st DNA Exchange (DNA #748)

A				B				C			
	105 labs	% (n)			104 labs	% (n)			93 labs	% (n)	
A*01:01:01:01	1 (1)	A*02:01:01	4 (4)	B*35:01:01	1 (1)	B*37:01:01	5 (5)	C*04:01:01	1 (1)	C*06:02:01	2 (2)
A*01:01:01	3 (3)	A*02:01:01G	4 (4)	B*35:01:01G	3 (3)	B*37:01:01G	1 (1)	C*04:01:01G	8 (7)	C*06:02:01G	4 (4)
A*01:01:01G	3 (3)	A*02:01:01L	1 (1)	B*35:01P	3 (3)	B*37:01	51(53)	C*04:01P	2 (2)	C*06:02P	2 (2)
A*01:01	47(49)	A*02:01P	1 (1)	B*35:01	41(43)	B*37:01+	2 (2)	C*04:01	44(41)	C*06:02	47(44)
*A*01:06*	1 (1)	A*02:01	46(48)	B*35:01+	11(11)	B*37	41(43)	C*04:01+	5 (5)	C*06:02+	5 (5)
A*01:01+	3 (3)	A*02:01+	2 (2)	B*35	41(43)			C*04	39(36)	C*06	38(35)
A*01	42(44)	A*02	43(45)					*C*02*	1 (1)	*BLANK*	1 (1)
BLANK	1 (1)										

DRB1				DRB3/4/5				DQA1			
	109 labs	% (n)			56 labs	% (n)			56 labs	% (n)	
DRB1*10:01:01	6 (7)	DRB1*15:03:01	4 (4)	*DRB4*01:01:01:01*	2 (1)			DQA1*01:02:01G	7 (4)	DQA1*01:01:01G	2 (2)
DRB1*10:01	61(66)	DRB1*15:03:01G	3 (3)	DRB5*01:01:01	5 (3)			DQA1*01:02P	2 (1)	DQA1*01:05	36(20)
DRB1*10:01+	4 (4)	DRB1*15:03	61(66)	DRB5*01:01	55(31)			DQA1*01:02	32(18)	*DQA1*01:01*	2 (1)
DRB1*10	29(32)	*DRB1*15:01*	1 (1)	*DRB5*05:01*	2 (1)			DQA1*01:02+	5 (3)	*DQA1*01:04*	2 (1)
		*DRB1*15:01+*	1 (1)	DRB5*01	18(10)			DQA1*01	54(30)	*DQA1*01:01+*	4 (2)
		DRB1*15:03+	3 (3)	DRB5*Present	18(10)					*DQA1*01:04+*	2 (1)
		DRB1*15	28(31)							DQA1*01	54(3)

DQB1				DPB1				DPA1			
	99 labs	% (n)			50 labs	% (n)			25 labs	% (n)	
DQB1*05:01:01	4 (4)	DQB1*06:02:01	5 (5)	DPB1*02:01:02	4 (2)	DPB1*13:01:01	2 (1)	DPA1*01:03:01G	4 (1)	DPA1*02:01:01	4 (1)
DQB1*05:01:01G	3 (3)	DQB1*06:02:01G	2 (2)	DPB1*02:01:02G	8 (4)	DPB1*13:01:01G	18(9)	DPA1*01:03	72(18)	DPA1*02:01	76(19)
DQB1*05:01	56(55)	DQB1*06:02	54(53)	DPB1*02:01P	6 (3)	DPB1*13:01P	10(5)	DPA1*01:03+	4 (1)	DPA1*02	20(5)
DQB1*05:01+	8 (8)	DQB1*06:01	1 (1)	DPB1*02:01	62(31)	DPB1*13:01	52(26)	DPA1*01	20(5)		
DQB1*05	29(29)	DQB1*06:02+	9 (9)	DPB1*02:01+	10(5)	DPB1*13:01+	8 (4)				
		DQB1*06	29(29)	DPB1*02	10(5)	DPB1*13+	2 (1)				
						*DPB1*02*	8 (4)				

Table 3. Summary of the 121st DNA Exchange (DNA #749)

A				B				C			
	104 labs	% (n)			103 labs	% (n)			90 labs	% (n)	
A*02:05:01	5 (5)			B*50:01:01	5 (5)			C*06:02:01	2 (2)		
A*02:05:01G	3 (3)			B*50:01	53(55)			C*06:02:01G	7 (6)		
A*02:05	51(53)			B*50:01+	1 (1)			C*06:02	49(44)		
*A*02:01+*	1 (1)			B*50	41(42)			C*06:02+	7 (6)		
A*02	40(42)							C*06	36(32)		

DRB1				DRB3/4/5				DQA1			
	107 labs	% (n)			54 labs	% (n)			53 labs	% (n)	
DRB1*07:01:01	5 (5)			*DRB4*01:01:01:01*	2 (1)			DQA1*02:01	74(39)		
DRB1*07:01:01G	3 (3)			DRB4*01:03:01	4 (2)			DQA1*02	26(14)		
DRB1*07:01	58(62)			DRB4*01:01:01G	2 (1)						
DRB1*07:01+	2 (2)			DRB4*01:03	35(19)						
DRB1*07	33(35)			*DRB4*01:01*	2 (1)						
				DRB4*01	35(19)						
				DRB4*Present	20(11)						

DQB1				DPB1				DPA1			
	97 labs	% (n)			53 labs	% (n)			25 labs	% (n)	
DQB1*02:02:01	4 (4)			DPB1*04:02:01	7 (3)			DPA1*01:03:01G	4 (1)		
DQB1*02:01:01G	1 (1)			DPB1*04:02:01G	7 (3)			DPA1*01:03	68(17)		
DQB1*02:02	57(55)			DPB1*04:02P	2 (1)			*DPA1*04:02*	4 (1)		
*DQB1*02:01*	1 (1)			DPB1*04:02	67(31)			DPA1*01:03+	4 (1)		
DQB1*02:02+	7 (7)			*DPB1*01:03*	2 (1)			DPA1*01	20 (5)		
DQB1*02	30(29)			DPB1*04:02+	4 (2)						
				DPB1*04	11 (5)						

Table 4. Summary of the 121st DNA Exchange (DNA #750)

A				B				C			
	102 labs	% (n)			101 labs	% (n)			89 labs	% (n)	
A*31:01:02	6 (6)	A*33:03:01	6 (6)	B*40:02:01	5 (5)	B*58:01:01	4 (4)	C*03:02:02	2 (2)	C*03:04:01	5 (5)
A*31:01:02G	2 (2)	A*33:03:01G	3 (3)	B*40:02:01G	2 (2)	B*58:01:01G	2 (2)	C*03:02:01G	6 (5)	C*03:04:01G	6 (5)
A*31:01:01G	1 (1)	A*33:03	46(47)	B*40:02	53(53)	B*58:01	52(52)	C*03:02	56(50)	C*03:04	52(46)
A*31:01	48(49)	*A*33:01*	3 (3)	*B*40:04*	1 (1)	B*58:01+	2 (2)	C*03:02+	3 (3)	*C*03:02+*	2 (2)
A*31:01+	2 (2)	*A*33:01+*	1 (1)	B*40:02+	2 (2)	B*58	41(41)	C*03	32(28)	C*03	35(31)
A*31	41(42)	A*33	40(41)	B*40	38(38)			*C*02*	1 (1)	*BLANK*	1 (1)
		*A*29*	1 (1)								

DRB1				DRB3/4/5				DQA1			
	104 labs	% (n)			52 labs	% (n)			53 labs	% (n)	
DRB1*11:01:01	4 (4)	DRB1*13:02:01	7(7)	*DRB3*01:01:02:01*	2 (1)	DRB3*03:01:01	4 (2)	DQA1*01:02:01G	8 (4)	DQA1*05:01:01G	2 (1)
DRB1*11:01:01G	3 (3)	DRB1*13:02	53(55)	DRB3*02:02:01G	12(6)	DRB3*03:01:01G	2 (1)	DQA1*01:02P	2 (1)	DQA1*05:01P	2 (1)
DRB1*11:01P	4 (4)	DRB1*13:02+	4 (4)	DRB3*02:02	31(16)	DRB3*03:01	46(24)	DQA1*01:02	26(14)	DQA1*05:05	25(13)
DRB1*11:01	43(45)	DRB1*13	35(36)	*DRB3*03:01*	2 (1)	DRB3*03	19 (10)	DQA1*01:02+	6 (3)	DQA1*05:05+	19(10)
DRB1*11:01+	6 (6)	*DRB1*03*	1 (1)	DRB3*02	29(15)	*DRB3*01*	2 (1)	DQA1*01	59(31)	DQA1*05	53(28)
DRB1*11	40(42)	*DRB1*14*	1 (1)	*DRB3*01*	2 (1)	DRB3*Present	23(12)				
				DRB3*Present	23(12)	*BLANK*	4 (2)				

DQB1				DPB1				DPA1			
	95 labs	% (n)			43 labs	% (n)			24 labs	% (n)	
DQB1*03:01:01	3 (3)	DQB1*06:09:01	1 (1)	DPB1*02:01:02	5 (2)	DPB1*05:01:01	5 (2)	DPA1*01:03:01G	4 (2)	DPA1*02:02:02	4 (1)
DQB1*03:01:01G	3 (3)	DQB1*06:09:01G	1 (1)	DPB1*02:01:02G	7 (3)	DPB1*05:01:01G	9 (4)	DPA1*01:03	67(16)	DPA1*02:02	25(6)
DQB1*03:01	52(49)	DQB1*06:09	67(64)	DPB1*02:01P	2 (1)	DPB1*05:01P	5 (2)	*DPA1*01:06*	4 (1)	DPA1*02:02+	25(6)
DQB1*03:01+	5 (5)	*DQB1*06:01+*	1 (1)	DPB1*02:01	65(28)	DPB1*05:01	58(25)	DPA1*01:03+	4 (1)	DPA1*02	46(11)
DQB1*03	37(35)	DQB1*06	30(28)	DPB1*02:01+	9 (4)	DPB1*05:01+	12(5)	DPA1*01	21(5)		
				DPB1*02	12(5)	DPB1*05	12(5)				

Table 5. Summary of the 121st DNA Exchange (DNA #751)

A				B				C			
	102 labs	% (n)			101 labs	% (n)			90 labs	% (n)	
A*02:07:01	5 (5)	A*33:03:01	6 (6)	B*46:01:01	4 (4)	B*58:01:01	4 (4)	C*01:02:01	1 (1)	C*03:02:02	1 (1)
A*02:07:01G	3 (3)	A*33:03:01G	3 (3)	B*46:01:01G	2 (2)	B*58:01:01G	2 (2)	C*01:02:01G	6 (5)	C*03:02:01G	6 (5)
A*02:07	46(47)	A*33:03	45(46)	B*46:01	49(49)	B*58:01	50(50)	C*01:02	53(48)	C*03:02	56(50)
*A*02:01*	4 (4)	*A*33:01*	4 (4)	*B*46:12*	1 (1)	B*58:01+	4 (4)	C*01:02+	3 (3)	C*03:02+	3 (3)
*A*02:01+*	1 (1)	*A*33:01+*	1 (1)	B*46:01+	4 (4)	B*58	41(41)	C*01	37(33)	C*03	33(30)
A*02:07+	1 (1)	A*33:03+	1 (1)	B*46	40(40)					*BLANK*	1 (1)
A*02	40(41)	A*33	41(40)	*B*35*	1 (1)						

DRB1				DRB3/4/5				DQA1			
	105 labs	% (n)			54 labs	% (n)			52 labs	% (n)	
DRB1*03:01:01	3 (3)	DRB1*04:05:01	4 (4)	*DRB3*01:01:02:01*	2 (1)	DRB4*01:01:01:01	2 (1)	DQA1*03:01:01G	2 (1)	DQA1*05:01:01G	2 (1)
DRB1*03:01:01G	2 (2)	DRB1*04:05	59(62)	DRB3*02:02:01G	11(6)	DRB4*01:01:01G	2 (1)	DQA1*03:03	29(15)	DQA1*05:01	71(37)
DRB1*03:01	53(56)	DRB1*04:05+	2 (2)	DRB3*02:02	33(18)	DRB4*01:03	39(21)	DQA1*03:02+	25(13)	DQA1*05	27(14)
*DRB1*03:03*	1 (1)	*DRB1*04:01+*	1 (1)	DRB3*02	30(16)	*DRB4*01:01*	2 (1)	DQA1*03	44(23)		
DRB1*03:01+	3 (3)	DRB1*04	34(36)	*DRB3*01*	2 (1)	DRB4*01	33(18)				
DRB1*03	38 (40)			DRB3*Present	22(12)	DRB4*Present	22(12)				

DQB1				DPB1				DPA1			
	95 labs	% (n)			46 labs	% (n)			23 labs	% (n)	
DQB1*02:01:01	5 (5)	DQB1*04:01:01	5 (5)	DPB1*01:01:01	9 (4)	DPB1*04:02:01	7 (3)	DPA1*01:03:01G	4 (1)	DPB1*02:02:02	4 (1)
DQB1*02:01:01G	1 (1)	DQB1*04:01:01G	1 (1)	DPB1*01:01	80(37)	DPB1*04:02:01G	7 (3)	DPA1*01:03	70(16)	DPB1*02:02	26(6)
DQB1*02:01	57(54)	DQB1*04:01	53(50)	DPB1*01	11(5)	DPB1*04:02	74(34)	DPA1*01:03+	4 (1)	DPB1*02:02+	22(5)
DQB1*02:01+	5 (5)	*DQB1*04:02*	1 (1)			DPB1*04:02+	2 (1)	DPA1*01	22(5)	DPB1*02	48(11)
DQB1*02	32(30)	DQB1*04:01+	4 (4)			DPB1*04	11(5)				
		DQB1*04	36(34)								

Table 6. Summary of the 121st DNA Exchange (DNA #752)

A

	122 labs	% (n)	
A*01:01:01:01	1 (1)	A*24:02:01	2 (2)
A*01:01:01	2 (2)	A*24:02:01G	3 (3)
A*01:01:01G	3 (3)	A*24:02	49(50)
A*01:01	47(48)	A*24:02+	5 (5)
A*01:01+	5 (5)	A*24	41(42)
A*01	40(41)		
Blank	2 (2)		

B

	121 labs	% (n)	
B*08:01:01	1 (1)	B*40:01:02	1 (1)
B*08:01:01G	4 (4)	B*40:01:01G	3 (3)
B*08:01	51(51)	B*40:01	55(55)
*B*08:13*	1 (1)	B*40:01+	3 (3)
B*08:01+	2 (2)	B*40	39(39)
*B*08*	42(42)		

C

	108 labs	% (n)	
C*03:04:01	3 (3)	C*07:01:01	2 (2)
C*03:04:01G	3 (3)	C*07:01:01G	6 (5)
C*03:04	49(44)	C*07:01P	1 (1)
*C*03:02*	1 (1)	C*07:01	43(39)
C*03:04+	3 (3)	C*07:01+	4 (4)
*C*03:02+*	2 (2)	C*07	42(38)
C*03	38(34)	Blank	1 (1)

DRB1

	122 labs	% (n)	
DRB1*03:01:01	3 (3)	DRB1*12:01:01	2 (2)
DRB1*03:01:01G	2 (2)	DRB1*12:01:01G	5 (5)
DRB1*03:01	53(56)	DRB1*12:01P	5 (5)
*DRB1*03:04*	1 (1)	DRB1*12:01	38(40)
DRB1*03:01+	3 (3)	*DRB1*07:02*	1 (1)
DRB1*03	38(40)	DRB1*12:01+	9 (9)
		DRB1*12	41(43)

DRB3/4/5

	68 labs	% (n)	
DRB3*01:01:02:01	2 (1)	DRB3*02:02:01G	11(6)
DRB3*01:01:02	2 (1)	DRB3*02:02	33(18)
DRB3*01:01:02G	4 (2)	DRB3*02	29(16)
DRB3*01:01	42(23)	*DRB3*01*	2 (1)
DRB3*01	24(13)	DRB3*Present	24(13)
DRB3*01:01+	2 (1)	Blank	2 (1)
DRB3*Present	24(13)		

DQA1

	57 labs	% (n)	
DQA1*05:01:01G	2 (1)	DQA1*05:01:01G	2 (1)
DQA1*05:01	54(28)	DQA1*05:01P	2 (1)
DQA1*05:01+	4(2)	DQA1*05:05	20(10)
DQA1*05	39(20)	*DQA1*05:01*	2 (1)
Blank	2 (1)	*DQA1*05:10*	2 (1)
		*DQA1*05:01+*	6 (3)
		DQA1*05:05+	8 (4)
		DQA1*05	60(31)

DQB1

	110 labs	% (n)	
DQB1*02:01:01	4 (4)	DQB1*03:01:01	3 (3)
DQB1*02:01:01G	1 (1)	DQB1*03:01:01G	2 (2)
DQB1*02:01	60(56)	DQB1*03:01	52(49)
*DQB1*02:02*	29(27)	DQB1*03:01+	4 (4)
DQB1*02:01+	5 (5)	DQB1*03	38(36)
*DQB1*03*	1 (1)		

DPB1

	47 labs	% (n)	
DPB1*02:01:02	4 (2)	DPB1*04:01:01	7 (3)
DPB1*02:01:02G	9 (4)	DPB1*04:01:01G	7 (3)
DPB1*02:01P	4 (2)	DPB1*04:01P	2 (1)
DPB1*02:01	59(27)	DPB1*04:01	67(31)
DPB1*02:01+	13(6)	*DPB1*04:04*	2 (1)
DPB1*02	11(5)	DPB1*04:01+	4 (2)
		DPB1*04	11(5)

DPA1

	21 labs	% (n)	
DPA1*01:03:01G	4 (1)		
DPA1*01:03	70(16)		
DPA1*01:03+	4 (1)		
DPA1*01	22(1)		

Table 7. Individual laboratory results for DNA #747

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	04	15	4*01	5*01	01	03	03	06					02	02	07	40	03	07
16	04:11:01	15:01	4*01:03	5*01:01	01:02:01G	03:01/2	03:02/45	06:02/47	04:01:01	04:02:01	01:03	BLANK	02:01:01	02:06:01	07:02:01/61	40:02:01	03:08	07:02/50
80	04:11	15	4*01	5*01:01	01	03	03	06	04:01P	04:02P	01:03	BLANK	02	02	07	40	03	07
124	04:11	15:01	4*01	5*01:01	01	03	03:02	06:02	04:01/126:01	04:02/105:01			02:01/1L	02:06	FTA	FTA	FTA	FTA
134	04:11	15:01	4*01:03	5*01:01			03:02	06:02	04:01	04:02			02:01	02:06	07:02	40:02	03:08	07:02
138	04:11	15:01	4*01	5*01	01	03	03:02	06:02	04:01	04:02			02:01	02:06	07:02	40:02	03:08	07:02
142	04	15	4*01	5*01			03	06					02	02	07	40		
143	04:03/11	15:01/12					03:02	06:02					02:01	02:06	07:02/6	40:02/18	03:04/8	07:02/19
144	04:11	15:01			01	03	03:02:01G	06:02:01G					02:01:01G	02:06	07:02:01G	40:02	03:08	07:02:01G
147	04:11	15:01	4*01:03	5*01:01	01:02	03:01	03:02	06:02	04:01	04:02			02:01	02:06	07:02	40:02	03:08	07:02
148	04:11	15:01	4*01:03:01	5*01:01			03:02	06:02	04:01P	04:02P			02:01	02:06	07:02:01G	40:02	03:08	07:02P
152	04	15											02	02	07	40		
156	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:04	07:19
158	04:11	15:01	4*01:03	5*01:01	01	03	03:02	06:02	04:01	04:02	01:03	BLANK	02:01	02:06	07:02	40:02	03:08	07:02
168	04	15											02	02	07	40		
173	04:11	15:01			01:02	03:01/3	03:02	06:02					02	02				
174	04:11	15:01					03:02	06:02					02:01/9	02:06	07:02	40:02	03:08	07:02/66
175	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03	07
176	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
185	04:11:01	15:01:01G					03:02/8	06:02/48					02:01:01G	02:06:01G	07	40	03:08	07:02:01G
187	04:11	15:01					03:02	06:02					02:01	02:06	07:02:01G	40:02	03:08	07:02
188	04:11	15:01																
189	04:11	15:01	4*01	5*01:01	01:02	03	03:02	06:02/47	04:01	04:02	01:03	BLANK	02:01	02:06	07:02	40:02	03:08	07:02/50
190	04	15	4	5			03	06					02	02	07	40	03	07
192	04:11	15:01	4*01:03	5*01:01			03:02	06:02	04:01:01G	04:02:01G			02:01	02:06	07:02	40:02	03:08	07:02
193	04:11	15:01											02:01	02:06	07:02	40:02		
199	04	15	4	5			05	06										
205	04:11	15:01	4*01:03	5*01:01	01:02P	03:01	03:02	06:02	04:01P	04:02P	01:03	BLANK	02:01	02:06	07:02:01G	40:02	03:08	07:02P
206	04	15											02	02	07	40		
207	04:11	15:01/86	4*01:03	5*01:01	01	03	03:02	06:02	04:01:01G	04:02:01G			02:01	02:06	07:02	40:02	03:08	07:02
208	04:11	15:01											02:01	02:06	07:02	40:02		
209	NT	NT					NT	NT					NT	NT	NT	NT	NT	NT
213	04	15					03	06					02	02	07	40	03	07
214													02	02	07	40	03	07
215	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT
218	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
222	04	15	4*01	5*01			03	06					02	02	07	40		
223	04:11	15:01			01:02	03:01	03:02	06:02							07:02	40:02	03:08	07:02
225	04:11	15:01	4*01:01:01:01	5*01:01:01			03:02	06:02					02:01	02:06	07:02	40:02	03:04	07:01
226	04	15	4*01	5*01	01	03	03	06	04	04	01	BLANK	02	02	07	40	03	07
227	04:11	15:01					03:02	06:02					02:01	02:06:01	07:02:01	40:02:01	03:08	07:02
230	04:11	15:01	4*01:03	5*01:01	01	03	03:02	06:02	04:01	04:02	01:03	BLANK	02:01	02:06	07:02	40:02	03:08	07:02
232	04	15					03	06					02	02	07	40	03	07
234	04	15	NT	NT	01:02	03:01	03	06	04:01	04:02			02	02	07	40	NT	NT
237	04	15					03	06					02	02	07	40		
238					01:02	03:01												
239	04:11	15:01/41	4*01:03	5*01:01	01:02/11	03:01	03:02/32	06:02/33	04:01	04:02	01:03	BLANK	02	02	07	40	03	07
240	04:11	15:01			01:02	03:01											03:08	07:02
242	NT	NT			NT	NT	NT	NT					NT	NT	NT	NT	NT	NT
244	04:11	15:01					03	06					02:01	02:06	07:02	40:02	03:08	07:02
245	04:11	15:01			01	03	03:02	06:02					02	02	07	40	03	07:19
249	04:11:01	15:01:01					03:02:01	06:02:01	04:01:01	04:02:01			02:01:01	02:06:01	07:02:01	40:02:01	03:08	07:02:01
250	04	15	4	5			03	06					02	02	07	BLANK	BLANK	07
251	04	15					03	06					02	02	07	40		
252	04	15	4	5			03:02	06					02	03	07	BLANK		
255	04	15											02	02	07	40		
263	04:11	15:01					03:02	06:02	04:01	04:02			02:01	02:06	07:02	40:02	03:04	07:02
264	04:11:01	15:01:01G	4*01:01:01G	5*01:01:01	01:02:01G	03:01:01	03:02:01	06:02:01	04:01:01G	04:02:01G	01:03:01G	BLANK	02:01:01G	02:06:01	07:02:01G	40:02:01	03:08	07:02:01G
265	04:01/2	15:01/2	4*01	5*01	01:02/8	03:01/2	03:02/5	06:01/2	04:01	04:02	01:03	BLANK	02:01/1L	02:01/1L	07:02/7	40:02/3	03:02/4	07:01/2
267	04:11	15:01	4*01:01	5*01:01	01:02	03:01	03:02	06:02					02:01	02:06	07:02	40:02	03:04	07:01
268	04	15					03	06					02	24	07	40		
275	04:11	15:01											02:01	02:06	07:02	40:02		
278	04:11	15:01	4*01:03	5*01:01	01	03	03:02	06:02	04:01/126:01	04:02/105:01	01:03	BLANK	02:01	02:06	07:02	40:02	03:08	07:02
280	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
282	04	15	4*01	5*01:01	01:02	03	03:02	06:02					02	02	07	40	03	07
283	04	15	4	5	01	03	03	06					02	02	07	40	03	07
285	04	15			01	03	03	06					02	02	07	40	03	07
401	04:11	15:01			01	03	03:02	06:02/47	04:01	04:02								
452	04:11	15:01	4*01:03	5*01:01	01	03	03:02	06:02	04:01	04:02	01:03	BLANK	02:01	02:06	07:02	40:02	03:08	07:02
615	04:11	15:01:01G	4*01	5*01:01			03:02:01G	06:02:01G	04:01:01G	04:02:01G			02:01:01G	02:06:01G	07:02:01G	40:02:01G	03:08	07:02:01G
616	04	15											02	02	07	40	03	07
635	04	15	4	5			03	06					02	02	07	40	03	07
702	04:11	15:01	4*01:03	5*01:01	01:02	03:01	03:02	06:02	04:01	04:02			02:01	02:06	07:02	40:02	03:08	07:02
714	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
726	04	15	4*01	5*01	01	03	03	06	04	04	01	BLANK	02	02	07	40	03	07
732	04:11:01	15:01	4*01:03:01	5*01:01:01	01	03	03:02:01	06:02:01					02:01:01	02:06:01	07	40:02:01	03:08	07:02/50
769	04:11	15:01	4*01:03	5*01:01			03:02	06:02	04:01P	04:02P			02:01P	02:06	07:02:01G	40:02	03:08	07:02P
805	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
1113	04	15					03	06	04:01	04:02			02	02	07	40	03	07
1189	04:11	15:01	4*01:03	5*01:01	01	03	03:02	06:02	04:01:01G	04:02:01G			02:01	02:06	07:02	40:02	03:08	07:02

Table 7. Individual laboratory results for DNA #747

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
1212	04:11	15:01	4*01:03	5*01:01			03:02	06:02	04:01	04:02			02:01	02:06	07:02	40:02	03:08	07:02
1251	04:11	15	4*01:03	5*01:01:01	01	03:01	03:02/45	06:02	04:01:01G	04:02:01G			02	02:06/290	07	40	03:08	07
1498	04:11:01	15:01	4*01:03	5*01:01	01:02:01G	03:01:01	03:02:01	06:02:01	04:01/120:01N	04:02			02:01/1L	02:06	07:02:01G	40:02	03:08	07:02/50
1647	04:11	15:01	4	5	01	03	03:02	06:02	04:01	04:02	01	BLANK	02:01	02:06	07:02	40:02	03:08	07:02
1686	04:11	15:01	4*01:03	5*01:01	01:02	03:01	03:02	06:02	04:01:01G	04:02:01G	01:03	BLANK	02:01	02:06	07:02	40:02	03:08	07:02
2013	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
2015													02:01	02:06	07:02	40:02	03:08	07:02
2347	04:11	15:01	NT	NT	01	03	03:02	06:02	04:01:01G	04:02:01G	01:03	BLANK	02:01	02:06	07:02P	40:02	03:04	07:19
2411	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:04	07:19
2518	04:11	15			01	03	03	06	04:01	04:02:01G	01:03	BLANK	02	02	07	40	03	07
2549	04:11	15:01	4*01	5*01	01:02:01G	03:01	03:02	06:02	04	04			02:01	02:06	07:02	40:02	03:08	07:02
3261	04:11	15:01					03:02	06:02										
3264	04	15	NT	NT	NT	NT	03	06	NT	NT			02	02	07	40	03	07
3325	04:11	15:01	4*01:03	5*01:01	01:02	03:01	03:02	06:02	04:01	04:02			02	02	07	40	03	07
3410	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
3438	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
3600	04	15	4	5	01	03	03	06	04	04	01	BLANK	02	02	07	40	03	07
3614	04:11	15:01			01	03	03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02
3625	04:11	15:01	4	5			03:02	06:02	04:01/126:01	04:02/105:01			02:01	02:06	07	40:02	03:08	07:02
3807	04:11	15:01	4*01:03	5*01:01	01:02/11	03:01	03:02	06:02	04:01	04:02	01:03/10	BLANK	02:01	02:06	07:02	40:02	03:08	07
3849	04:11	15	4*01	5*01:01	01	03:01	03:02	06:02/47					02:01:01G	02:06:01G	07	40	03	07
4420	04:11	15:01/3					03:02	06:02/11	04:01	04:02			02:01/4	02:06	07:02	40:02/11	03:04/6	07
4545	04:11	15:01	4*01	5*01:01	01:02	03:01	03:02	06:02	04:01:01G	04:02:01G			02:01:01G	02:06	07:02:01G	40:02	03:08	07:02:01G
4551	04:11	15:01	4*01:03	5*01:01	01:02	03:01	03:02	06:02	04:01	04:02	01:03	BLANK	02	02	07	40	03	07
4585	04:11	15			01:02	03	03:02	06:02					02	02	07	40	03	07
4653	04:11	15			01	03	03:02	06:02					02	02	07	40	03	07
5451									04:01:01	04:02:01			02:01:01	02:06:01				
6051	04:11	15:01	4*01	5*01	01	03	03:02/45	06:02/47	04:01:01G	04:02:01G	01:03	BLANK	02	02	07	40:02	03:04/8	07
6313	04:11	15:01					03:02	06:02					02:01	02:06	07:02	40:02	03:08	07:02/50
9221	04:11	15:01	4	5	01	03	03	06	04:01	04:02	01:03	BLANK	02	02	07	40	03	07
197H	04:11	15:01					03:02	06:02	04:01	04:02			02:01	02:06	07:02P	40:02	03:08	07:02P
197L	04:11	15	4*01	5*01:01	01	03	03	06			01:03	BLANK	02	02	07	40	03	07
284H	04:11	15:01	4*01:03	5*01:01	01:02	03:01	03:02	06:02					02:01	02:06	07:02	40:02	03:04	07:02
284L	04	15					03	06					02	02	07	40	03	07
4582H	04:11	15:01	4*01:03	5*01:01	01:02	03:01	03:02	06:02	04:01	04:02	01:03	BLANK	02:01	02:06	07:02	40:02	03:08	07:02
4582L	04	15	4*01	5*01	01	03	03	06	04	04	01	BLANK	02	02	07	40	03	07

Table 8. Individual laboratory results for DNA #748

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	10	15	5*01	BLANK	01	01	05	06					01	02	35	37	04	06
16	10:01:01	15:03:01	5*01:01	BLANK	01:02:01G	01:05	05:01/12	06:02/47	02:01/141:01	13:01/107:01	01:03	02:01	01:01:01	02:01:01	35:01/42	37:01:01	04:01	06:02/83
80	10	15	5*05:01	BLANK	01	01	05	06	02:01P	13:01P	01:03	02:01	01	02	35	37	04	06
124	10:01	15:03	5*01:01	BLANK	01	01	05:01	06:02	02:01/141:01	13:01:01G			FTA	FTA	FTA	FTA	FTA	FTA
134	10:01	15:03	5*01:01	BLANK			05:01	06:02	02:01	13:01			01:01	02:01	35:01	37:01	04:01	06:02
138	10:01	15:03	5*01	BLANK	01	01	05:01	06:02	02:01	13:01			01:01	02:01	35:01	37:01	04:01	06:02
142	10	15	5*01	BLANK			05	06					01	02	35	37		
143	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
144	10:01	15:03			01	01	05:01:01G	06:02:01G					01:01:01G	02:01:01G	35:01	37:01	04:01:01G	06:02:01G
147	10:01	15:03	5*01:01	BLANK	01:02	01:05	05:01	06:02	02:01	13:01			01:01	02:01	35:01	37:01	04:01	06:02
148	10:01	15:03	5*01:01	BLANK			05:01	06:02	02:01P	13:01P			01:01	02:01	35:01P	37:01	04:01	06:02
152	10	15											01	02	35	37		
156	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01/82	06:02
158	10:01	15:03	5*01:01	BLANK	01	01	05:01	06:02	02:01	13:01	01:03	02:01	01:01	02:01	35:01	37:01	04:01	06:02
168	10	15											01	02	35	37		
173	10:01	15:03			01:02	01:01/4	05:01	06:02					01	02				
174	10:01	15:03					05:01	06:02					01:01	02:01/9	35:01	37:01	04:01	06:02
175	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04	06
176	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
185	10:01:01	15:03:01G					05:01:01:01/2	06:02:01					01	02	35	37	04	06
187	10:01	15:03					05:01	06:02					01:01	02:01	35:01P	37:01	04:01P	06:02P
188	10:01	15:03																
189	10:01	15:03	5*01:01	BLANK	01:02	01:04/5	05:01/12	06:02/47	02:01	13:01	01:03	02:01	01:01	02:01	35:01	37:01	04:01	06:02
190	10	15	5	BLANK			05	06					01	02	35	37	04	06
192	10:01	15:03	5*01:01	BLANK			05:01	06:02	02:01	13:01:01G			01:01	02:01	35:01	37:01	04:01	06:02
193	10:01	15:03											01:01	02:01	35:01/42	37:01		
199	10	15	5	BLANK			05	06										
205	10:01	15:03	5*01:01	BLANK	01:02P	01:05	05:01	06:02	02:01	13:01P	01:03	02:01	01:01	02:01	35:01	37:01	04:01	06:02
206	10	15											01	02	35	37		
207	10:01	15:03	5*01:01	BLANK	01	01	05:01	06:02	02:01:02G	13:01			01:01	02:01	35:01/42	37:01	04:01/82	06:02/83
208	10:01	15:03											01:01/4N	02:01	35:01/42	37:01		
209	NT	NT					NT	NT					NT	NT	NT	NT	NT	NT
213	10	15					05	06					01	02	35	37	04	06
214													01	02	35	37	04	06
215	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT
218	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
222	10	15	5*01	BLANK			05	06					01	02	35	37		
223	10:01	15:03			01:02	01:05	05:01	06:02							35:01	37:01	04:01	06:02
225	10:01	15:03	4*01:01:01:01	BLANK			05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
226	10	15	5*01	BLANK	01	01	05	06	02	13/107	01	02	01	02	35	37	04	06
227	10:01:01	15:03					05:01:01	06:02					01:01	02:01	35:01	37:01:01	04:01	06:02
230	10:01	15:03	5*01:01	BLANK	01	01	05:01	06:02	02:01	13:01	01:03	02:01	01:01	02:01	35:01	37:01	04:01	06:02
232	10	15					05	06					01	02	35	37	04	06
234	10	15	NT	NT	01:02	01:05	05	06	02:01	13:01			01	02	35	37	04	06
237	10	15					05	06					01	02	35	37		
238					01:02	01:05												
239	10:01	15:03	5*01:01	BLANK	01:02/11	01:05	05:01/7	06:02/19	02:01	13:01	01:03	02:01	01	02	35	37	04	06
240	10:01	15:03			01:02	01:05											04:01	06:02
242	10	15			01:02	01:05	05	06					01	02	35	37	04	06
244	10:01	15:03					05	06					01:01	02:01	35:01	37:01	04:01	06:02
245	10:01	15:03			01	01	05:01/12	06:02/47					01	02	35	37	04	06
249	10:01:01	15:03:01					05:01:01	06:02:01	02:01:02	13:01:01			01:01:01	02:01:01	35:01:01	37:01:01	04:01:01	06:02:01
250	10	15	5	BLANK			05	06					BLANK	02	35	37	02	BLANK
251	NT	NT					NT	NT					NT	NT	NT	NT		
252	10	15	5	BLANK			05	06					01	02	35	37		
255	10	15											01	02	35	37		
263	10:01	15:03					05:01	06:02	02:01	13:01			01:01	02:01	35:01	37:01	04:01	06:02
264	10:01:01	15:03:01G	5*01:01:01	BLANK	01:02:01G	01:01:01G	05:01:01G	06:02:01	02:01:02G	13:01:01G	01:03:01G	02:01:01	01:01:01G	02:01:01G	35:01:01G	37:01:01	04:01:01G	06:02:01G
265	10:01/2	15:01/2	5*01	BLANK	01:02/8	01:01/4	05:01/2	06:01/2	02:01	13:01	01:03	02:01	01:01/1L	02:01:01L	35:01/3	37:01/2	04:01/3	06:02/3
267	10:01/3	15:03	5*01:01	BLANK	01:02	01:04	05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
268	10	15					05	06					01	02	35	37		
275	10:01	15:03											01:01	02:01	35:01	37:01		
278	10:01	15:03	5*01:01	BLANK	01	01	05:01	06:02	02:01/141:01	13:01	01:03	02:01	01:01	02:01	35:01	37:01	04:01	06:02
280	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
282	10	15:03	5*01:01	BLANK	01:02	01	05:01	06:02					01	02	35	37	04	06
283	10	15	5	BLANK	01	01	05	06					01	02	35	37	04	06
285	10	15			01	01	05	06					01	02	35	37	04	06
401	10:01	15:03			01	01	05:01	06:02/47	02:01	13:01								
452	10:01	15:03	5*01:01	BLANK	01	01	05:01	06:02	02:01	13:01	01:03	02:01	01:01	02:01	35:01	37:01	04:01	06:02
615	10:01	15:03:01G	5*01:01	BLANK			05:01:01G	06:02:01G	02:01:02G	13:01:01G			01:01:01G	02:01:01G	35:01:01G	37:01:01G	04:01:01G	06:02:01G
616	10	15											01	02	35	37	04	06
635	10	15	5	BLANK			05	06					01	02	35	37	04	06
702	10:01	15:03	5*01:01	BLANK	01:02	01:05	05:01	06:02	02:01	13:01			01:01	02:01	35:01	37:01	04:01	06:02
714	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
726	10	15	5*01	BLANK	01	01	05	06	02	13	01	02	01	02	35	37	04	06
732	10:01:01	15:03:01	5*01:01:01	BLANK	01	01	05:01:01	06:02:01					01:01:01	02:01:01	35:01/42	37:01:01	04	06:02:01
769	10:01	15:03	5*01:01	BLANK			05:01	06:02	02:01P	13:01P			01:01	02:01P	35:01P	37:01	04:01	06:02
805	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01:01G	06:02
1113	10	15					05	06	02:01/141:01	13:01/133:01			01	02	35	37	04	06
1189	10:01	15:03	5*01:01	BLANK	01	01	05:01	06:02	02:01	13:01			01:01	02:01	35:01	37:01	04:01	06:02

Table 8. Individual laboratory results for DNA #748

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
1212	10:01	15:03	5*01:01	BLANK			05:01	06:02	02:01	13:01			01:01	02:01	35:01	37:01	04:01	06:02
1251	10:01	15:03	5*01:01:01	BLANK	01	01:05	05:01	06:02	02:01	13:01:01G			01	02	35	37	04	06
1498	10:01:01	15:03:01	5*01:01	BLANK	01:02:01G	01:05	05:01:01	06:02:01	02:01/123:01	13:01			01:01/1N	02:01/1L	35:01/42	37:01	04:01:01G	06:02/83
1647	10:01	15:03	5	BLANK	01	01	05:01	06:02	02:01	13:01	01	02	01:01	02:01	35:01	37:01	04:01	06:02
1686	10:01	15:03	5*01:01	BLANK	01:02	01:05	05:01	06:02	02:01	13:01:01G	01:03	02:01	01:01	02:01	35:01	37:01	04:01	06:02
2013	10:01	15:03					05	06					01:01	02:01	35:01	37:01	04:01	06:02
2015													01:01	02:01	35:01	37:01	04:01	06:02
2347	10:01	15:03	NT	NT	01	01	05:01	06:02	02:01	13:01:01G	01:03	02:01	01:01	02:01	35:01	37:01	04:01:01G	06:02P
2411	10:01	15:03					05:01	06:02					01:06	02:01	35	37	04:01	06:02
2518	10	15			01	01	05	06	02:01	13:01	01:03	02:01	01	02	35	37	04	06
2549	10:01	15:03	5*01	BLANK	01:02:01G	01:05	05:01	06:02	02	13			01:01	02:01	35:01	37:01	04:01	06:02
3261	10:01	15:03					05:01	06:02										
3264	10	15	NT	NT	NT	NT	05	06	NT	NT			01	02	35	37	04	06
3325	10:01	15:03	5*01:01	BLANK	01:02	01:05	05:01	06:01	02:01	13:01			01	02	35	37	04	06
3410	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
3438	10:01	15:03					05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
3600	10	15	5	BLANK	01	01	05	06	02	13	01	02	01	02	35	37	04	06
3614	10:01	15:03			01	01	05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
3625	10:01	15:03	5	BLANK			05:01	06:02	02:01	13:01/133:01			01:01	02:01	35:01/42	37:01	04:01	06:02/83
3807	10:01	15:03	5*01:01	BLANK	01:02/11	01:05	05:01	06:02	02:01	13:01/107	01:03/10	02:01	01:01	02:01	35:01	37:01	04	06
3849	10:01	15:03/57	5*01:01	BLANK	01	01:05	05:01/12	06:02/47					01	02	35:01:01G/203	37:01:01G/29	04	06
4420	10:01	15:01					05:01	06:02	02:01	13:01			01:01	02:01	35:01/48	37:01	04:01/7	06:02
4545	10:01	15:03	5*01:01	BLANK	01:02	01:05	05:01	06:02	02:01	13:01:01G			01:01	02:01:01G	35:01:01G	37:01	04:01:01G	06:02:01G
4551	10:01	15:03	5*01:01	BLANK	01:02	01:01	05:01	06:02	02:01	13:01	01:03	02:01	01	02	35	37	04	06
4585	10:01/3	15:03/57			01:02	01	05:01	06:02					01	02	35	37	04	06
4653	10:01/3	15:03/57			01	01	05:01	06:02					01	02	35	37	04	06
5451									02:01:02	13:01			01:01:01:01	02:01:01				
6051	10:01	15:03	5*01	BLANK	01	01	05:01/12	06:02/47	02:01:02G	13:01:01G	01:03	02:01	01	02	35	37	04	06
6313	10:01	15:03					05:01	06:02/11					01	02	35:01/42	37:01	04:01/9N	06:02
9221	10:01	15:03	5	BLANK	01	01	05	06	02:01	13:01	01:03	02:01	01	02	35	37	04	06
197H	10:01	15:03					05:01	06:02	02:01	13:01P			01:01	02:01	35:01	37:01	04:01P	06:02
197L	10	15	5*01:01	BLANK	01	01	05	06			01:03	02:01	01	02	35	37	04	06
284H	10:01	15:03	5*01:01	BLANK	01:02	01:05	05:01	06:02					01:01	02:01	35:01	37:01	04:01	06:02
284L	10	15					05	06					01	02	35	37	04	06
4582H	10:01	15:03	5*01:01	BLANK	01:02	01:05	05:01	06:02	02:01	13:01	01:03	02:01	01:01	02:01	35:01	37:01	04:01	06:02
4582L	10	15	5*01	BLANK	01	01	05	06	02	13	01	02	01	02	35	37	04	06

Table 9. Individual laboratory results for DNA #749

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	07	BLANK	4*01	BLANK	02	BLANK	02	BLANK					02	BLANK	50	BLANK	06	BLANK
16	07:01:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02/10	BLANK	04:02:01	BLANK	01:03	BLANK	02:05:01	BLANK	50:01:01	BLANK	06:02:01/83	BLANK
80	07	BLANK	4*01	BLANK	02:01	BLANK	02	BLANK	04:02	BLANK	01:03	BLANK	02	BLANK	50	BLANK	06	BLANK
124	07:01	BLANK	4*01	BLANK	02:01	BLANK	02:02	BLANK	04:02/105:01	BLANK			02:05	BLANK	50:01	BLANK	06:02/83	BLANK
134	07:01	BLANK	4*01:03	BLANK			02:02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
138	07:01	BLANK	4*01	BLANK	02	BLANK	02:02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
142	07	BLANK	4*01	BLANK			02	BLANK					02	BLANK	50	BLANK		
143	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
144	07:01	BLANK			02:01	BLANK	02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
148	07:01	BLANK	4*01:03:01	BLANK			02:02	BLANK	04:02P	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
152	07	BLANK											02	BLANK	50	BLANK		
156	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
158	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK	01:03	BLANK	02:05	BLANK	50:01	BLANK	06:02	BLANK
168	07	BLANK											02	BLANK	50	BLANK		
173	07:01	BLANK			02:01	BLANK	02:02	BLANK					02	BLANK				
174	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
175	07:01	BLANK					02:02/6	BLANK					02:05	BLANK	50:01	BLANK	06	BLANK
176	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
185	07:01:01G	BLANK					02:02	BLANK					02:05:01G	BLANK	50:01:01	BLANK	06:02:01G	BLANK
187	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02:01G	BLANK
188	07:01	BLANK																
189	07:01	BLANK	4*01	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK	01:03	BLANK	02:05	BLANK	50:01	BLANK	06:02/83	BLANK
190	07	BLANK	4	BLANK			02	BLANK					02	BLANK	50	BLANK	06	BLANK
192	07:01	BLANK	4*01:03	BLANK			02:02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
193	07:01	BLANK											02:05	BLANK	50:01	BLANK		
199	07	09	4	BLANK			02	05										
205	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK	01:03	BLANK	02:05	BLANK	50:01	BLANK	06:02	BLANK
206	07	BLANK											02	BLANK	50	BLANK		
207	07:01	BLANK	NT	NT	02:01	BLANK	02:02	BLANK	NT	NT			02	BLANK	50	BLANK	06	BLANK
208	07:01	BLANK											02:05	BLANK	50:01	BLANK		
209	07	BLANK					02	BLANK					02	BLANK	50	BLANK	06	BLANK
213	07	BLANK					02	BLANK					02	BLANK	50	BLANK	06	BLANK
214													02	BLANK	50	BLANK	06	BLANK
215	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT
218	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
222	07	BLANK	4*01	BLANK			02	BLANK					02	BLANK	50	BLANK		
223	07:01	BLANK			02:01	BLANK	02:02	BLANK							50:01	BLANK	06:02	BLANK
225	07:01	BLANK	4*01:01:01:01	BLANK			02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
226	07	BLANK	4*01	BLANK	02	BLANK	02	BLANK	04	BLANK	01	BLANK	02	BLANK	50	BLANK	06	BLANK
227	07:01:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
230	07:01	BLANK	4*01:03	BLANK	02	BLANK	02:02	BLANK	04:02	BLANK	01:03	BLANK	02:05	BLANK	50:01	BLANK	06:02	BLANK
232	07	BLANK					02	BLANK					02	BLANK	50	BLANK	06	BLANK
234	07:01	BLANK	NT	NT	NT	NT	02:02/6	BLANK	NT	NT			02:05	BLANK	50:01	BLANK	06:02	BLANK
237	07	BLANK					02	BLANK					02	BLANK	50	BLANK		
238					02:01	BLANK												
239	07:01/18	BLANK	4*01	BLANK	02:01	BLANK	02:02/6	BLANK	04:02	BLANK	01:03	BLANK	02	BLANK	50	BLANK	06	BLANK
240	07:01	BLANK			02:01	BLANK											06:02	BLANK
242	NT	NT			NT	NT	NT	NT					NT	NT	NT	NT	NT	NT
244	07:01	BLANK					02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
245	07:01	BLANK			02:01	BLANK	02:02	BLANK					02	BLANK	50	BLANK	06	BLANK
249	07:01:01	BLANK					02:02:01	BLANK	04:02:01	BLANK			02:05:01	BLANK	50:01:01	BLANK	06:02:01	BLANK
250	07	BLANK	4	BLANK			02	BLANK					02	BLANK	50	40	NT	NT
251	NT	NT					NT	NT					NT	NT	NT	NT		
252	07	BLANK	4	BLANK			02	BLANK					02	BLANK	50	BLANK		
255	07	BLANK											02	BLANK	50	BLANK		
263	07:01	BLANK					02:01	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
264	07:01:01G	BLANK	4*01:01:01G	BLANK	02:01	BLANK	02:02:01	BLANK	04:02:01G	BLANK	01:03:01G	BLANK	02:05:01	BLANK	50:01:01	BLANK	06:02:01G	BLANK
265	07:01/3	BLANK	4*01	BLANK	02:01	BLANK	02:01/2	BLANK	04:02	BLANK	01:03	BLANK	02:01/1L	BLANK	50:01/4	BLANK	06:02/3	BLANK
267	07:01	BLANK	4*01:01	BLANK	02:01	BLANK	02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
268	07	BLANK					02	BLANK					02	BLANK	50	BLANK		
275	07:01	BLANK											02:05	BLANK	50:01	BLANK		
278	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02/10	BLANK	04:02	BLANK	01:03	BLANK	02:05	BLANK	50:01	BLANK	06:02	BLANK
280	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
282	07	BLANK	4*01	BLANK	02:01	BLANK	02:02	BLANK					02	BLANK	50	BLANK	06	BLANK
283	07	BLANK	4	BLANK	02	BLANK	02	BLANK					02	BLANK	50	BLANK	06	BLANK
285	07	BLANK			02	BLANK	02	BLANK					02	BLANK	50	BLANK	06	BLANK
401	07:01	BLANK			02:01	BLANK	02:02	BLANK	04:02	BLANK								
452	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK	01:03	BLANK	02:05	BLANK	50:01	BLANK	06:02	BLANK
615	07:01:01G	BLANK	4*01	BLANK			02:01:01G	BLANK	04:02:01G	BLANK			02:05:01G	BLANK	50:01	BLANK	06:02:01G	BLANK
616	07	BLANK											02	BLANK	50	BLANK	06	BLANK
635	07	BLANK	4	BLANK			02	BLANK					02	BLANK	50	BLANK	06	BLANK
702	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
714	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
726	07	BLANK	4*01	BLANK	02	BLANK	02	BLANK	04	BLANK	01	BLANK	02	BLANK	50	BLANK	06	BLANK
732	07:01:01	BLANK	4*01:03:01	BLANK	02	BLANK	02:02:01	BLANK					02:05:01	BLANK	50:01:01	BLANK	06:02:01	BLANK
769	07:01	BLANK	4*01:03	BLANK			02:02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
805	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
1113	07	BLANK					02	BLANK	04:02	BLANK			02	BLANK	50	BLANK	06	BLANK
1189	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK

Table 9. Individual laboratory results for DNA #749

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
1212	07:01	BLANK	4*01:03	BLANK			02:02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
1498	07:01:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02:01	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02/83	BLANK
1647	07:01	BLANK	4	BLANK	02	BLANK	02:02	BLANK	04:02	BLANK	01	BLANK	02:05	BLANK	50:01	BLANK	06:02	BLANK
1686	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK	01:03	BLANK	02:05	BLANK	50:01	BLANK	06:02	BLANK
2013	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
2015													02:05	BLANK	50:01	BLANK	06:02	BLANK
2347	07	BLANK	4	BLANK	02	BLANK	02	BLANK	04:02	BLANK	01:03	BLANK	02	BLANK	50	BLANK	06	BLANK
2411	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
2518	07	BLANK			02:01	BLANK	02	BLANK	01:03	BLANK	04:02	BLANK	02	BLANK	50	BLANK	06	BLANK
2549	07:01	BLANK	4*01	BLANK	02:01	BLANK	02:02	BLANK	04	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
3261	07:01	BLANK					02:02	BLANK										
3264	07:01	BLANK	NT	NT	02:01	BLANK	02	BLANK	NT	NT			02	BLANK	50	BLANK	NT	NT
3325	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK			02	BLANK	50	BLANK	06	BLANK
3410	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
3438	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
3600	07	BLANK	4	BLANK	02	BLANK	02	BLANK	04	BLANK	01	BLANK	02	BLANK	50	BLANK	06	BLANK
3614	07:01	BLANK			02:01	BLANK	02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
3625	07:01	BLANK	4	BLANK			02:02	BLANK	04:02/105:01	BLANK			02:05	BLANK	50:01	BLANK	06:02/83	BLANK
3807	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK	01:03/10	BLANK	02:05	BLANK	50	BLANK	06	BLANK
3849	07	BLANK	4*01	BLANK	02:01	BLANK	02:02	BLANK					02:05:01G	BLANK	50:01	BLANK	06:02:01G	BLANK
4420	07:01	BLANK					02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
4545	07:01	BLANK	4*01	BLANK	02:01	BLANK	02:02	BLANK	04:02:01G	BLANK			02:05	BLANK	50:01	BLANK	06:02:01G	BLANK
4551	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK	01:03	BLANK	02	BLANK	50	BLANK	06	BLANK
4585	07	BLANK			02:01	BLANK	02:02	BLANK					02	BLANK	50	BLANK	06	BLANK
4653	07	BLANK			02:01	BLANK	02:02	BLANK					02	BLANK	50	BLANK	06	BLANK
5451									04:02:01	BLANK			02:05:01	BLANK				
6051	07:01	BLANK	4*01	BLANK	02	BLANK	02:02/10	BLANK	04:02	BLANK	01:03	BLANK	02	BLANK	50	BLANK	06	BLANK
6313	07:01	BLANK					02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
9221	07	BLANK	4	BLANK	02	BLANK	02	BLANK	04:02	BLANK	01:03	BLANK	02	BLANK	50	BLANK	06	BLANK
197H	07:01	BLANK					02:02	BLANK	04:02	BLANK			02:05	BLANK	50:01	BLANK	06:02	BLANK
197L	07	BLANK	4*01	BLANK	02:01	BLANK	02	BLANK			01:03	BLANK	02	BLANK	50	BLANK	06	BLANK
284H	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK					02:05	BLANK	50:01	BLANK	06:02	BLANK
284L	07	BLANK					02	BLANK					02	BLANK	50	BLANK	06	BLANK
4582H	07:01	BLANK	4*01:03	BLANK	02:01	BLANK	02:02	BLANK	04:02	BLANK	01:03	BLANK	02:05	BLANK	50:01	BLANK	06:02	BLANK
4582L	07	BLANK	4*01	BLANK	02	BLANK	02	BLANK	04	BLANK	01	BLANK	02	BLANK	50	BLANK	06	BLANK

Table 10. Individual laboratory results for DNA #750

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	11	13	3*02	3*03	01	05	03	06					31	33	40	58	03	03
16	11:01	13:02:01	3*02:02:01G	3*03:01	01:02:01G	05:05/9	03:01/27	06:09	02:01/141:01	05:01/135:01	01:03	02:02/5	31:01:02	33:03:01	40:02:01	58:01:01	03:02:02	03:04:01
80	11	13	3*02	3*03:01	01	05	03	06:09	02:01	05:01	01:03	02	31	33	40	58	03	03
124	11:01/97	13:02	3*03:01	3*03:01	01	05	03:01	06:09	02:01/141:01	05:01/135:01			31:01	33:03	40:02	58:01	03:02	03:04
134	11:01	13:02	3*02:02	3*03:01			03:01	06:09	02:01	05:01			31:01	33:03	40:02	58:01	03:02	03:04
138	11:01	13:02	3*02	3*03	01	05	03:01	06:09	02:01	05:01			31:01	33:03	40:02	58:01	03:02	03:04
142	11	13	3*02	3*03			03	06					31	33	40	58		
143	11:01/14	13:02/5					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
144	11:01:01G	13:02			01	05	03:01:01G	06:09:01G					31:01	33:03	40:02	58:01	03:02	03:04
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT			NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
152	11	13											31	33	40	58		
156	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
158	11:01	13:02	3*02:02	3*03:01	01	05	03:01	06:09	02:01	05:01	01:03	02	31:01	33:03	40:02	58:01	03:02	03:04
168	NT	NT											31	33	40	58		
173	11:01	13:02			01:02	05:05/9	03:01	06:09					31	33				
174	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
175	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03	03
176	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
185	11:01/100	13:02:01					03	06:09					31:01:02G	33:03:01G	40:02:01G	58:01:01G	03:02:01G	03:04:01G
187	11:01P	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
188	11:01P	13:02																
189	11:01	13:02	3*02:02	3*03:01	01:02	05:05/9	03:01	06:09	02:01	05:01/135:01	01:03	02:02/5	31:01	33:03	40:02	58:01	03:02	03:04
190	11	13	3	3			03	06					31	33	40	58	03	03
192	11:01	13:02	3*02:02	3*03:01			03:01	06:09	02:01	05:01			31:01	33:03	40:02	58:01	03:02	03:04
193	11:01	13:02											31:01	33:03	40:02	58:01		
199	11	03	3	3			03	06										
205	11:01P	13:02	3*02:02:01G	3*03:01	01:02P	05:01P	03:01	06:09	02:01	05:01	01:03	02:02/5	31:01	33:03	40:02	58:01	03:02	03:04
206	11	13											31	33	40	58		
207	11	13	NT	NT	01	05:05/9	03	06:09	NT	NT			31	33	40	58	03:02/146	03
208	11	13											31:01	33:03	40:02	58:01		
209	11	13					03	06					31	33	40	58	03	03
213	11	13					03	06					31	33	40	58	03	03
214													31	33	40	58	03	03
215	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT
218	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
222	11	13	3*02	BLANK			03	06					31	33	40	58		
223	11:01	13:02			01:02	05:05	03:01	06:09							40:02	58:01	03:02	03:04
225	11:01	13:02	3*01:01:02:01	BLANK			03:01	06:09					31:01	33:01	40:02	58:01	03:02	03:04
226	11	13	3*02	3*03	01	05	03	06	02	05	01	02	31	33	40	58	03	03
227	11:01	13:02:01					03:01:01	06:09					31:01:02	33:03:01	40:02:01	58:01	03:02	03:04:01
230	11:01	13:02	3*02:02	3*03:01	01	05	03:01	06:09	02:01	05:01	01:03	02	31:01	33:03	40:02	58:01	03:02	03:04
232	11	13					03	06					31	33	40	58	03	03
234	11:01/97	13:02	NT	NT	NT	NT	03:01	06:09	NT	NT			31:01	33:03	40:02	58:01	03:02	03:04
237	11	13					03	06					31	33	40	58		
238					01:02	05:05												
239	11	13	3	3	01:02/11	05:05/11	03	06	NT	NT	NT	NT	31	33	40	58	03	03
240	11:01	13:02			01:02	05:05											03:02	03:04
242	NT	NT			NT	NT	NT	NT					NT	NT	NT	NT	NT	NT
244	11:01	13:02					03	06					31:01	33:03	40:02	58:01	03:02	03:04
245	11	13:02/128			01	05:05/9	03	06:09					31	33	40	58	03:02	03
249	11:01:01	13:02:01					03:01:01	06:09:01	02:01:02	05:01:01			31:01:02	33:03:01	40:02:01	58:01:01	03:02:02	03:04:01
250	11	13	3	3			03	06					31	29	40	58	02	BLANK
251	NT	NT					NT	NT					NT	NT	NT	NT		
252	11	13	3	3			03:01/4	06					31	33	40:02	58		
255	11	13											31	33	40	58		
263	11:01	13:02					03:01	06:09	02:01	05:01			31:01	33:01	40:02	58:01	03:02	03:04
264	11:01:01	13:02:01	3*02:02:01G	3*03:01:01	01:02:01G	05:01:01G	03:01:01G	06:09	02:01:02G	05:01:01G	01:03:01G	02:02:02	31:01:02	33:03:01	40:02:01	58:01:01	03:02:01G	03:04:01G
265	11:01/2	13:01/2	3*01	3*01	01:02/8	05:05/9	03:01/4	06:01/2	02:01	05:01	01:06	02:02	31:01/2	33:01/3	40:02/8	58:01/2	03:02/4	03:02/4
267	11:01	13:02	3*02:02	3*03:01	01:02	05:05	03:01	06:09					31:01	33:01	40:04	58:01	03:02	03:04
268	11	14					03	06					31	33	40	58		
275	11:01	13:02											31:01	33:03	40:02	58:01		
278	11:01	13:02	3*02:02	3*03:01	01	05:05/9	03:01	06	02:01	05:01	01:03	02:02/5	31:01	33:03	40:02	58:01	03:02	03:04
280	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
282	11	13	3*02:02	3*03:01	01:02	05	03	06					31	33	40	58	03	03
283	11	13	3	3	01	05	03	06					31	33	40	58	03	03
285	11	13			01	05	03	06					31	33	40	58	03	03
401	11	13:02			01	05	03:01/29	06:09	02:01	05:01								
452	11:01	13:02	3*02:02	3*03:01	01	05	03:01	06:09	02:01	05:01	01:03	02:02	31:01	33:03	40:02	58:01	03:02	03:04
615	11:01:01G	13:02	3*02:02:01G	3*03:01:01G			03:01:01G	06:09	02:01:02G	05:01:01G			31:01:02G	33:03:01G	40:02:01G	58:01:01G	03:02:01G	03:04:01G
616	11	13											31	33	40	58	03	03
635	11	13	3	3			03	06					31	33	40	58	03	03
702	11:01	13:02	3*02:02	3*03:01	01:02	05:05	03:01	06:09	02:01	05:01			31:01	33:03	40:02	58:01	03:02	03:04
714	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
726	11	13	3*02	3*03	01	05	03	06	02	05	01	02	31	33	40	58	03	03
732	11:01:01	13:02:01	3*02	3*03:01	01	05	03	06:09					31:01:02	33:03:01	40:02:01	58:01:01	03:02	03:04:01
769	11:01	13:02	3*02:02:01G	3*03:01			03:01	06:09	02:01P	05:01P			31:01	33:03	40:02	58:01	03:02	03:04
805	11:01:01G	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
1113	11	13					03	06	02:01/141:01	05:01/140:01			31	33	40	58	03	03
1189	11:01	13:02	3*02:02	3*03:01	01	05	03:01	06:09	02:01	05:01			31:01	33:03	40:02	58:01	03:02	03:04

Table 10. Individual laboratory results for DNA #750

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
1212	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
1498	11:01:01	13:02:01	3*02:02:01G	3*03:01:01	01:02:01G	05:05/11	03:01:01	06:09	02:01/123:01	05:01			31:01	33:03	40:02	58:01	03:02	03:04
1647	11:01	13:02	3	3	01	05	03:01	06:09	02:01	05:01	01	02	31:01	33:03	40:02	58:01	03:02	03:04
1686	11:01	13:02	3*02:02	3*03:01	01:02	05:05	03:01	06:09	02:01	05:01/140:01	01:03	02:02	31:01	33:03	40:02	58:01	03:02	03:04
2013	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
2015													31:01	33:03	40:02	58:01	03:02	03:04
2347	11	13	3	3	01	05	03:01	06	02:01	05:01	01:03	02:02	31	33	40:02	58	03	03
2411	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
2518	11	13			01	05	03	06:09	02:01	05:01	01:03	02:02	31	33	40	58	03	03
2549	11:01	13:02	3*02	3*03	01:02:01G	05:05	03:01	06:09	02	05			31:01	33:03	40:02	58:01	03:02	03:04
3261	11:01	13:02					03:01	06:09										
3264	11	13	NT	NT	01	05	03	06:09	NT	NT			31	33	40	58	NT	NT
3325	11:01	13:02	3*02:02	3*03:01	01:02	05:05	03:01	06:09	02:01	05:01			31	33	40	58	03	03
3410	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
3438	11:01	13:02					03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
3600	11	13	3	3	01	05	03	06	02	05	01	02	31	33	40	58	03	03
3614	11:01	13:02			01	05	03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
3625	11:01/97	13:02	3	3			03:01	06:09	02:01	05:01			31:01	33:03	40:02	58:01	03:02	03:04
3807	11	13	3*02	3*03	01:02/11	05	03:01	06:09	02:01	05:01	01:03/10	02	31:01	33:03	40:02	58:01	03:02	03:04
3849	11	13:02/109	3*02	3*03	01	05:05	03	06:09					31:01:01G	33:03:01G	40:02:01G/64	58:01:01G/18	03:02:01G	03:04:01G
4420	11:01	13:02					03:01	06:09	02:01	05:01			31:01/2	33:03	40:02	58:01	03:02	03
4545	11:01	13:02	3*02	3*03:01	01:02	05:05	03:01	06:09	02:01	05:01:01G			31:01	33:03	40:02	58:01	03:02	03:04
4551	11:01	13:02	3*02:02	3*03:01	01	05	03:01	06:09	02:01	05:01	01:03	02:02	31:01	33:03	40:02	58:01	03:02:01G	03:04:01G
4585	11	13			01:02	05:05/9	03	06:09					31	33	40	58	03	03
4653	11	13:02			01	05	03:01	06:09					31	33	40	58	03	03
5451									02:01:02	05:01:01			31:01:02	33:03:01				
6051	11:01	13:02	3*02	3*03	01	05	03:01/27	06:09	02:01:02G	05:01:01G	01:03	02:02/5	31	33	40:02	58	03:02/5	03:04/6
6313	11	13					03	06					31	33	40	58	03	03
9221	11	13	3	3	01	05	03	06	02:01	05:01	01:03	02	31	33	40	58	03	03
197H	11:01P	13:02					03:01	06:09	02:01	05:01P			31:01	33:03	40:02	58:01	03:02	03:04
197L	11	13	3*02	3*03:01	01	05:05	03	06:09			01:03	02	31	33	40	58	03	03
284H	11:01	13:02	3*02:02	3*03:01	01:02	05:05	03:01	06:09					31:01	33:03	40:02	58:01	03:02	03:04
284L	11	13					03	06					31	33	40	58	03	03
4582H	11:01	13:02	3*02:02	3*03:01	01:02	05:05	03:01	06:09	02:01	05:01	01:03	02:02/5	31:01	33:03	40:02	58:01	03:02	03:04
4582L	11	13	3*02	3*03	01	05	03	06	02	05	01	02	31	33	40	58	03	03

Table 11. Individual laboratory results for DNA #751

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	03	04	3*02	4*01	03	05	02	04					02	33	46	58	01	03
16	03:01	04:05	3*02:02:01G	4*01:03	03:02/3	05:01	02:01/7	04:02	01:01:01	04:02:01	01:03	02:02/5	02:07:01	33:03:01	46:01:01	58:01:01	01:02	03:02
80	03	04	3*02	4*01	03	05:01	02	04	01:01	04:02	01:03	02	02	33	46	58	01	03
124	03:01	04:05	3*02	4*01	03:02/3	05:01	02:01	04:01	01:01	04:02/105:01			02:07	33:03	46:01	58:01	01:02	03:02
134	03:01	04:05	3*02:02	4*01:03			02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
138	03:01	04:05	3*02	4*01	03	05	02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
142	03	04	3*02	4*01			02	04					02	33	46	58		
143	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02/44	03:02
144	03:01	04:05			03:02/3	05:01	02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT			NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
152	03	04											02	33	46	58		
156	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
158	03:01	04:05	3*02:02	4*01:03	03	05:01	02:01	04:01	01:01	04:02	01:03	02	02:07	33:03	46:01	58:01	01:02	03:02
168	03	04											02	33	46	58		
173	03:01	04:05			03:02/3	05:01	02:01	04:01/6					02	33				
174	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
175	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01	03
176	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
185	03	04:05:01/3					02:01:01	04:01:01					02:07:01G	33:03:01G	46:01:01G	58:01:01G	01:02:01G	03:02:01G
187	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
188	03:01	04:05																
189	03:01	04:05	3*02:02	4*01	03:02/3	05:01	02:01	04:01	01:01	04:02	NT	NT	02:07	33:03	46:01	58:01	01:02	03:02
190	03	04	3	4			02	04					02	33	46	58	01	03
192	03:01	04:05	3*02:02	4*01:03			02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
193	03:01	04:05											02:07	33:03	46:01	58:01		
199	03	04	3	4			02	04										
205	03:01	04:05	3*02:02:01G	4*01:03	03:03	05:01	02:01	04:01	01:01	04:02	01:03	02:02/5	02:07	33:03	46:01	58:01	01:02	03:02
206	03	04											02	33	46	58		
207	03	04:05	NT	NT	03:02/3	05:01	02:01/7	04	01:01	04:02			02	33	46	58	01	03
208	03:01	04:05											02:07	33:03	46:01/9	58:01/19		
209	03	04					02	04					02	33	46	58	01	03
213	03	04					02	04					02	33	46	58	01	03
214													02	33	46	58	01	03
215	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT
218	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
222	03	04	3*02	4*01			02	04					02	33	46	58		
223	03:03	04:05			03:03	05:01	02:01	04:01							46:01	58:01	01:02	03:02
225	03:01	04:05	3*01:01:02:01	4*01:01:01:01			02:01	04:01					02:01	33:01	46:01	58:01	01:02	03:02
226	03	04	3*02	4*01	03	05	02	04	01	04	01	02	02	33	46	58	01	03
227	03:01	04:05					02:01:01	04:01					02:07	33:03:01	46:01	58:01	01:02	03:02
230	03:01	04:05	3*02:02	4*01:03	03	05	02:01	04:01	01:01	04:02	01:03	02	02:07	33:03	46:01	58:01	01:02	03:02
232	03	04					02	04					02	33	46	58	01	03
234	03:01/50	04:05	3*02:02	4*01:03	NT	NT	02:01/7	04:01/6	01:01	04:02			02:07/15N	33:03/15	46:01/15N	58:01/11	01:02/25	03:02/146
237	03	04					02	04					02	33	46	58		
238					03:03	05:01												
239	03	04	3	4	03:03	05:01	02	04	NT	NT	NT	NT	02	33	46	58	01	03
240	03:01	04:05			03:03	05:01											01:02	03:02
242	NT	NT			NT	NT	NT	NT					NT	NT	NT	NT	NT	NT
244	03:01	04:05					02	04					02:07	33:03	46:01	58:01	01:02	03:02
245	03	04:05			03:02/3	05:01	02:01	04					02	33	46	58	01	03:02
249	03:01:01	04:05:01					02:01:01	04:01:01	01:01:01	04:02:01			02:07:01	33:03:01	46:01:01	58:01:01	01:02:01	03:02:02
250	03	04	3	4			02	04					02	33	35	58	01	BLANK
251	NT	NT					NT	NT					NT	NT	NT	NT		
252	03:01	04	3	4			02	04					02	33	46	58		
255	03	04											02	33	46	58		
263	03:01	04:05					02:01	04:01	01:01	04:02			02:01	33:01	46:01	58:01	01:02	03:02
264	03:01:01G	04:05:01	3*02:02:01G	4*01:01:01G	03:01:01G	05:01:01G	02:01:01	04:01:01	01:01:01	04:02:01G	01:03:01G	02:02:02	02:07:01	33:03:01	46:01:01	58:01:01	01:02:01G	03:02:01G
265	03:01/6	04:01/2	3*01	4*01	03:02/3	05:01	02:01/2	04:01/2	01:01	04:02	01:03	02:02	02:01/1L	33:01/3	46:01/2	58:01/2	01:02/3	03:02/4
267	03:01	04:05	3*02:02	4*01:01	03:02/3	05:01	02:01	04:01					02:01	33:01	46:12	58:01	01:02	03:02
268	03	04					02	04					02	33	46	58		
275	03:01	04:05											02:07	33:03	46:01	58:01		
278	03:01	04:05	3*02:02	4*01:03	03:02/3	05:01	02:01	04:01	01:01	04:02	01:03	02:02/5	02:07	33:03	46:01	58:01	01:02	03:02
280	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
282	03	04	3*02:02	4*01	03	05:01	02:01	04					02	33	46	58	01	03
283	03	04	3	4	03	05	02	04					02	33	46	58	01	03
285	03	04			03	05	02	04					02	33	46	58	01	03
401	03	04:05			03	05:01	02:01	04:01	01:01	04:02								
452	03:01	04:05	3*02:02	4*01:03	03	05:01	02:01	04:01	01:01	04:02	01:03	02:02	02:07	33:03	46:01	58:01	01:02	03:02
615	03:01:01G	04:05	3*02:02:01G	4*01			02:01:01G	04:01:01G	01:01	04:02:01G			02:07:01G	33:03:01G	46:01:01G	58:01:01G	01:02:01G	03:02:01G
616	03	04											02	33	46	58	01	03
635	03	04	3	4			02	04					02	33	46	58	01	03
702	03:01	04:05	3*02:02	4*01:03	03:03	05:01	02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
714	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
726	03	04	3*02	4*01	03	05	02	04	01	04	01	02	02	33	46	58	01	03
732	03:01:01	04:05:01	3*02	4*01:03	03	05	02:01	04:01:01					02:07:01	33:03:01	46:01:01	58:01:01	01:02	03:02
769	03:01	04:05	3*02:02:01G	4*01:03			02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
805	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
1113	03	04					02	04	01:01	04:02			02	33	46	58	01	03
1189	03:01	04:05	3*02:02	4*01:03	03:02/3	05:01	02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02

Table 11. Individual laboratory results for DNA #751

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
1212	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
1498	03:01:01	04:05:01	3*02:02:01G	4*01:03	03:03	05:01	02:01:01	04:01:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
1647	03:01	04:05	3	4	03	05	02:01	04:01	01:01	04:02	01	02	02:07	33:03	46:01	58:01	01:02	03:02
1686	03:01	04:05	3*02:02	4*01:03	03:03	05:01	02:01	04:01	01:01	04:02	01:03	02:02	02:07	33:03	46:01	58:01	01:02	03:02
2013	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
2015													02:07	33:03	46:01	58:01	01:02	03:02
2347	03:01	04	3	4	03	05	02	04	01:01	04:02	01:03	02:02	02	33	46	58	01	03
2411	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
2518	03	04			03	05:01	02	04	01:01	04:02	01:03	02:02	02	33	46	58	01	03
2549	03:01	04:05	3*02	4*01	03:03	05:01	02:01	04:01	01	04			02:07	33:03	46:01	58:01	01:02	03:02
3261	03:01	04:05					02:01	04:01										
3264	03:01/83	04:05	3*02:02	4*01:03	NT	NT	02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
3325	03:01	04:05	3*02:02	4*01:03	03:03	05:01	02:01	04:01	01:01	04:02			02	33	46	58	01	03
3410	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
3438	03:01	04:05					02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
3600	03	04	3	4	03	05	02	04	01	04	01	02	02	33	46	58	01	03
3614	03:01	04:05			03	05:01	02:01	04:01					02:07	33:03	46:01	58:01	01:02	03:02
3625	03:01	04:05	3	4			02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
3807	03	04:05	3*02	4*01:03	03:03	05:01	02:01	04:01	01:01	04:02	01:03/10	02	02:07	33:03	46	58	01	03
3849	03	04	3*02	4*01	03:03	05:01	02:01	04					02:07:01G	33:03:01G	46:01:01G/9	58:01:01G/19	01:02:01G	03:02:01G
4420	03:01	04:05					02	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
4545	03:01	04:05	3*02	4*01	03:03	05:01	02:01	04:01	01:01	04:02:01G			02:07	33:03	46:01	58:01	01:02	03:02
4551	03:01	04:05	3*02:02	4*01:03	03:02/3	05:01	02:01	04:01	01:01	04:02	01:03	02:02	02:07	33:03	46:01	58:01	01:02:01G	03:02:01G
4585	03	04			03:02/3	05:01	02:01	04					02	33	46	58	01	03
4653	03	04:05			03	05:01	02:01	04:01					02	33	46	58	01	03
5451									01:01:01	04:02:01			02:07:01	33:03:01				
6051	03:01	04:05/116	3*02	4*01	03	05	02:01/7	04:01/6	01:01	04:02	01:03	02:02/5	02	33	46	58	01	03:02/5
6313	03	04					02	04					02	33	46	58	01	03
9221	03	04	3	4	03	05	02	04	01:01	04:02	01:03	02	02	33	46	58	01	03
197H	03:01	04:05					02:01	04:01	01:01	04:02			02:07	33:03	46:01	58:01	01:02	03:02
197L	03	04	3*02	4*01	03	05:01	02	04			01:03	02	02	33	46	58	01	03
284H	03:01	04:05	3*02:02	4*01:03	03:03	05:01	02:01	04:01					02:01	33:01	46:01	58:01	01:02	03:02
284L	03	04					02	04					02	33	46	58	01	03
4582H	03:01	04:05	3*02:02	4*01:03	03:03	05:01	02:01	04:01	01:01	04:02	01:03	02:02/5	02:07	33:03	46:01	58:01	01:02	03:02
4582L	03	04	3*02	4*01	03	05	02	04	01	04	01	02	02	33	46	58	01	03

Table 12. Individual laboratory results for DNA #752

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
7	03	12	3*01	3*02	05	05	02	03					01	24	08	40	03	07
16	03:01	12:01:01G	3*01:01/11	3*02:02:01G	05:01/5	05:01/5	02:01/7	03:01/27	02:01/141:01	04:01:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
80	03	12	3*01	3*02	05:01	05	02	03	02:01P	04:01	01:03	BLANK	01	24	08	40	03	07
124	03:01	12	3*01:01	3*02	05:01	05	02:01	03:01	02:01/141:01	04:01/126:01			01:01/1N	24:02/2L	08:01	40:01	03:04	07
134	03:01	12:01	3*01:01	3*02:02			02:01	03:01	02:01	04:01			01:01	24:02	08:01	40:01	03:04	07:01
138	03:01	12:01	3*01	3*02	05	05	02:01	03:01	02:01	04:01			01:01	24:02	08:01	40:01	03:04	07:01
142	03	12	3*01	3*02			02	03					01	24	08	40		
143	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
144	03:01	12:01:01G			05	05	02:01	03					01:01:01G	24:02:01G	08:01:01G	40:01	03	07
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT			NT	NT	NT	NT			NT	NT	NT	NT	NT	NT
152	03	12											01	24	08	40		
156	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
158	03:01	12:01	3*01:01	3*02:02	05:01	05	02:01	03:01	02:01	04:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
168	03	12											01	24	08	40		
173	03:01	12:01/6			05:01	05:01/5	02:01	03:01					01	24				
174	03:01	12:01/10					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01/6
175	03:01	12:01/6					02:01	03:01					01:01	24:02	08:01	40:01	03	07
176	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
185	03	12:01:01G					02:01/3	03					01:01/89	24:02/120	08:01:01G	40:01:01G	03	07
187	03:01	12:01P					02:01	03:01					01:01	24:02	08:01	40:01	03:04/8	07:01/27
188	03:01	12:01P																
189	03:01	12:01	3*01:01	3*02:02	05:01	05:01/5	02:01	03:01	02:01	04:01	NT	NT	01:01	24:02	08:01	40:01	03:04	07:01
190	03	12	3	3			02	03					01	24	08	40	03	07
192	03:01	12:01	3*01:01	3*02:02			02:01	03:01	02:01	04:01			01:01	24:02	08:01	40:01	03:04	07:01
193	03:01	12:01											01:01	24:02	08:01	40:01/55		
199	03	12	3	3			02	03										
205	03:01	12:01P	3*01:01	3*02:02:01G	05:01	05:01P	02:01	03:01	02:01	04:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
206	03	12											01	24	08	40		
207	03	12	NT	NT	05:01	05	02:01/7	03	02:01:02G	04:01			01	24	08	40	03	07
208	03:01	12:01/10											01:01/4N	24:02	08:01	40:01		
209	NT	NT					NT	NT					NT	NT	NT	NT	NT	NT
213	03	12					02	03					01	24	08	40	03	07
214													01	24	08	40	03	07
215	03	12	3	3									01	24	08	40	03	07
218	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
222	03	12	BLANK	3*02			02	03					BLANK	24	08	40		
223	03:01	12:01			05:01	05:05	02:01	03:01							08:01	40:01	03:04	07:01
225	03:04	07:01	3*01:01:02:01	BLANK			02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
226	03	12	3*01	3*02	05	05	02	03	02	04	01	BLANK	01	24	08	40	03	07
227	03:01	12:01:01					02:01:01	03:01:01					01:01	24:02	08:01	40:01	03:04:01	07:01:01
230	03:01	12:01	3*01:01	3*02:02	05	05	02:01	03:01	02:01	04:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
232	03	12					03	03					01	24	08	40	03	07
234	03:01/50	12:01/6	3*01:01	3*02:02	NT	NT	02:01	03:01	02:01	04:04			01:01/4N	24:02/9N	08:01/19N	40:01/55	03:04/100	07:01/6
237	03	12					02	03					01	24	08	40		
238					05:01	05:05												
239	03	12	3	3	05:01/5	05:05/11	02	03	NT	NT	NT	NT	01	24	08	40	03	07
240	03:01	12:01			05:01	05:05											03:04	07:01
242	NT	NT			NT	NT	NT	NT					NT	NT	NT	NT	NT	NT
244	03:01	12:01					02	03					01:01	24:02	08:01	40:01	03:04	07:01
245	03	12			05:01	05	02:01	03					01	24	08	40	03	07
249	03:01:01	12:01:01					02:01:01	03:01:01	02:01:02	04:01:01			01:01:01	24:02:01	08:01:01	40:01:02	03:04:01	07:01:01
250	03	12	3	3			02	03					01	24	08	40	03	BLANK
251	NT	NT					NT	NT					NT	NT	NT	NT		
252	03:01	12	3	3			02	03					01	24	08	40:01		
255	03	12											01	24	08	40		
263	03:01	12:01					02:01	03:01	02:01	04:01			01:01	24:02	08:01	40:01	03:04	07:01
264	03:01:01G	12:01:01G	3*01:01:02G	3*02:02:01G	05:01:01G	05:01:01G	02:01:01	03:01:01G	02:01:02G	04:01:01G	01:03:01G	BLANK	01:01:01G	24:02:01G	08:01:01G	40:01:01G	03:04:01G	07:01:01G
265	03:01/6	12:01/2	3*01	3*01	05:01	05:10	02:01/2	03:01/4	02:01	04:01	01:03	BLANK	01:01/1L	24:02/2L	08:01/4	40:01/7	03:02/4	07:01/2
267	03:01	12:01	3*01:01	3*02:02	05:01	05:01	02:01	03:01					01:01	24:02	08:01	40:01	03:02	07:01
268	03	12					02	03					01	24	08	40		
275	03:01	12:01											01:01	24:02	08:01	40:01		
278	03:01	12:01	3*01:01	3*02:02	05	05	02:01	03:01	02:01/141:01	04:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
280	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
282	03	12	3*01:01	3*02:02	05:01	05	02:01	03					01	24	08	40	03	07
283	03	12	3	3	05	05	02	03					01	24	08	40	03	07
285	03	12			05	05	02	03					01	24	08	40	03	07
401	03	12			05	05	02:01	03:01/29	02:01	04:01								
452	03:01	12:01	3*01:01	3*02:02	05	05	02:01	03:01	02:01	04:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
615	03:01:01G	12:01	3*01:01:02G	3*02:02:01G			02:01:01G	03:01:01G	02:01:02G	04:01:01G			01:01:01G	24:02:01G	08:01:01G	40:01:01G	03:04:01G	07:01:01G
616	03	12											01	24	08	40	03	07
635	03	12	3	3			02	03					01	24	08	40	03	07
702	03:01	12:01	3*01:01	3*02:02	05:01	05:05	02:01	03:01	02:01	04:01			01:01	24:02	08:13	40:01	03:04	07:01
714	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
726	03	12	3*01	3*02	05	05	02	03	02	04	01	BLANK	01	24	08	40	03	07
732	03:01:01	12:01/10	3*01:01:02	3*02	05	05	02:01	03					01:01:01	24:02	08:01	40:01	03:04:01	07
769	03:01	12:01P	3*01:01	3*02:02:01G			02:01	03:01	02:01P	04:01P			01:01	24:02	08:01	40:01	03:04	07:01
805	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01:01G
1113	03	12					02	03	02:01/141:01	04:01			01	24	08	40	03	07
1189	03:01	12:01/10	3*01:01	3*02:02	05:01	05	02:01	03:01	02:01	04:01			01:01	24:02	08:01	40:01	03:04	07:01

Table 12. Individual laboratory results for DNA #752

CENTER	DRB1		DRB3/4/5		DQA1		DQB1		DPB1		DPA1		A-Locus		B-Locus		C-Locus	
1212	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
1498	03:01:01	12:01:01/10	3*01:01	3*02:02:01G	05:01	05:05/11	02:01:01	03:01:01	02:01/123:01	04:01/120:01N			01:01/1N	24:02/2L	08:01	40:01	03:04	07:01:01G
1647	03:01	12:01	3	3	05	05	02:01	03:01	02:01	04:01	01	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
1686	03:01	12:01	3*01:01	3*02:02	05:01	05:05	02:01	03:01	02:01	04:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
2013	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
2015													01:01	24:02	08:01	40:01	03:04	07:01
2347	03:01	12	3	3	05	05	02	03:01	02:01	04:01	01:03	BLANK	01	24	08	40:01	03:04	07
2411	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
2518	03	12			05	05	02	03	02:01	04:01	01:03	BLANK	01	24	08	40	03	07
2549	03:01	12:01	3*01	3*02	05:01	05:05	02:01	03:01	02	04			01:01	24:02	08:01	40:01	03:04	07:01
3261	03:01	12:01					02:01	03:01										
3264	03:01/83	12:01	3*01:01	3*02:02	NT	NT	02:01	03:01	02:01/141:01	04:01			01:01	24:02	08:01	40:01	03:04	07:01
3325	03:01	12:01	3*01:01	3*02:02	05:01	05:05	02:01	03:01	02:01	04:01			01	24	08	40	03	07
3410	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
3438	03:01	12:01					02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
3600	03	12	3	3	05	05	02	03	02	04	01	BLANK	01	24	08	40	03	07
3614	03:01	12:01			05:01	05	02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
3625	03:01	12	3	3			02:01	03:01	02:01	04:01			01:01	24:02	08:01	40:01	03:04	07:01
3807	03	12	3*01	3*02	05:01	05:05	02:01	03:01	02:01	04:01	01:03/10	BLANK	01:01	24:02	08	40	03	07
3849	03	12	3*01	3*02	05:01	05:05/11	02:01	03					01	24	08	40	03	07
4420	03:01	12:01					02	03	02:01	04:01			01:01	24:02	08:01	40:01	03:04/6	07
4545	03:01	12:01:01G	3*01:01	3*02	05:01	05	02:01	03:01	02:01	04:01:01G			01:01	24:02	08:01	40:01	03:04	07:01:01G
4551	03:01	12:01	3*01:01	3*02:02	05:01	05	02:01	03:01	02:01	04:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04:01G	07:01
4585	03	12			05:01	05	02:01	03					01	24	08	40	03	07
4653	03	12			05	05	02:01	03:01					01	24	08	40	03	07
5451									02:01:02	04:01:01			01:01:01:01	24:02:01				
6051	03:01	12:01	3*01	3*02	05	05	02:01/7	03:01/27	02:01:02G	04:01	01:03	BLANK	01	24	08	40:01	03:02/4	07
6313	03	12					02:01	03					01	24	08	40	03	07
9221	03	12	3	3	05	05	02	03	02:01	04:01	01:03	BLANK	01	24	08	40	03	07
197H	03:01	12:01P					02:01	03:01	02:01	04:01			01:01	24:02	08:01	40:01	03:04	07:01P
197L	03	12	3*01	3*02	05:01	05:05	02	03			01:03	BLANK	01	24	08	40	03	07
284H	03:01	12:01	3*01:01	3*02:02	BLANK	05:05	02:01	03:01					01:01	24:02	08:01	40:01	03:04	07:01
284L	03	12					02	03					01	24	08	40	03	07
4582H	03:01	12:01	3*01:01	3*02:02	05:01	05:05/11	02:01	03:01	02:01	04:01	01:03	BLANK	01:01	24:02	08:01	40:01	03:04	07:01
4582L	03	12	3*01	3*02	05	05	02	03	02	04	01	BLANK	01	24	08	40	03	07

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CENTER	DRB1	DRB3/4/5	DQA1	DQB1	DPB1	DPA1	A-Locus	B-Locus	C-Locus
7	SSO	SSO	SSO	SSO			SSO	SSO	SSO
16	SSO-OL,SBT-At	SSO-OL,SSP-Life	SSO-OL	SSO-OL	SSO-OL,SBT-At	SSO-OL	SSO-OL,SBT-At	SSO-OL,SBT-At	SSO-OL,SBT-At
80	SSO-OL						SSO-OL		
124									
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	SSO-Oli	SBT,SSO,SSP	SSO-OL,SSP-Ole		SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
142	SBT,SSO,SSP	RSSO		RSSO			RSSO	RSSO	
143	SBT,SSO,SSP			SBT-Invit			SBT-Invit	SBT-Invit	SBT-Invit
144	SBT,SSO,SSP		SSO	SSO,SBT			SSO,SBT	SSO,SBT	SSO,SBT
147	SBT,SSO,SSP								
148	SBT,SSO,SSP	SBT-Qia		SBT-Pro	SBT-Act		SBT-Act	SBT-Act	SBT-Act
152	SBT,SSO,SSP						SSP-Invit	SSP-Invit	
156	SBT,SSO,SSP			SBT,SSO,SSP			SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
158	SBT,SSO,SSP	SSP-Bion	SSO-Ingen,Lum	SSP-Bion	SSP-Bion	SSO-Ingen,Lum	SSP-Bion,Ole	SSP-Bion,Ole	SSP-Bion,Ole
168	SBT,SSO,SSP						SSO-Wak	SSO-Wak	
173	SBT,SSO,SSP		SSO-Lum	SSO-Lum			SSO-Lum		
174	SBT,SSO,SSP								
175	SBT,SSO,SSP								
176	SBT,SSO,SSP								
185	SBT,SSO,SSP			SBT-Inhex2,3			SBT-Inhex2,3	SBT-Inhex2,3	SBT-Inhex2,3
187	SBT,SSO,SSP			SBT,SSP-HD			SBT,SSO-Lab	SBT,SSO-Lab	SBT,SSO-Lab
188	SBT,SSO,SSP								
189	SBT,SSO,SSP	SSO-Oli	SSO-Oli	SSO-Oli	SSO-Oli,SSP-Life	SSO-Oli	SBT,SSP,SSO	SBT,SSP,SSO	SBT,SSP,SSO
190	SBT,SSO,SSP	SSP-Ole		SSP-Ole			SSP-Ole	SSP-Ole	SSP-Ole
192	SBT,SSO,SSP	SSP		SSP,SBT,NGS	SSP,SBT,NGS		SSP,SBT,NGS	SSP,SBT,NGS	SSP,SBT,NGS
193	SBT,SSO,SSP						SSO-OL	SSO-OL	
199	SBT,SSO,SSP								
205	SSO,SBT,SSP	SSO-OL,SSP-Invit	SSO-OL,SSP-Invit	SSO,SBT,SSP	SSO,SBT,SSP	SSO-OL,SSP-Invit	SSO,SBT,SSP	SSO,SBT,SSP	SSO,SBT,SSP
206	SSO-OL						SSO-OL	SSO-OL	
207	SSO,SBT,SSP	SSP	SSO	SSO,SBT,SSP	SSO,SSP		SSO,SBT,SSP	SSO,SBT,SSP	SSO,SBT,SSP
208	SBT-Invit						SBT-Invit	SBT-Invit	
209	SSP-Bior,OL			SSP-Bior			SSP-Bior,OL	SSP-Bior,OL	SSP-Bior
213	SSP-Ole			SSP-Ole			SSP-Ole	SSP-Ole	SSP-Ole
214									
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	SSO,SSP		SBT,SSO	SSO,SSP				SSO,SSP	SSO,SSP
225	SSP-Invit,SSO-OL	SSP-Invit		SSP-Invit,SSO-OL			SSP-Invit,SSO-OL	SSP-Invit,SSO-OL	SSO-OL
226	SSO	SSO	SSO	SSO	SSO	SSO	SSO	SSO	SSO
227	SBT-Abb,SSO-OL			SBT-Abb,SSO-OL			SBT-Abb,SSO-OL	SBT-Abb,SSO-OL	SBT-Abb,SSO-OL
230							SBT-Life	SBT-Life	SSP-Ole
232									
234	SBT,SSO,SSP	SSO-Lab	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP		SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
237	SSP	SSP	SSP	SSP			SSP	SSP	
238			PCR-SSP/OLERUP						
239	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL
240	SSO,SSP-OL		SSO,SSP-OL						SSO,SSP-OL
242	SSP-Ole		SSP-Ole	SSP-Ole			SSP-Ole	SSP-Ole,OL	SSP-Ole
244	SSP-Ole			SSO-Bag			SSP-Ole	SSP-Ole	SSP-Ole
245	SSO-OL		SSO-OL	SSO-OL			SSO-OL	SSO-OL	SSO-OL
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									
252	SSP-Invit,Uni	SSP-Invit,Uni		SSP-Invit,Uni			SSP-Invit,Uni	SSP-Invit,Uni	
255	SSO-OL						SSO-OL	SSO-OL	
263	SSO-Lum			SSO-Lum	SSO-Lum		SSO-Lum	SSO-Lum	SSO-Lum
264	ngs	ngs	ngs	ngs	ngs	ngs	ngs	ngs	ngs
265	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL
267	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL	SSO-OL	SSO-OL
268	SSO,SSP			SSO,SSP			SSO,SSP	SSO,SSP	
275	SBT-Abb						SBT-Abb	SBT-Abb	
278	SSP,SSO	SSP,SSO	rSSOP	SSP,SSO	SSP,SSO	rSSOP	SSP,SSO	SSP,SSO	SSP,SSO
280	SBT-Pro,SSP-Ole			SBT-Abb/Pro			SBT-Abb/Pro	SBT-Abb/Pro	SBT-Abb/Pro
282	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL	SSO-OL	SSO-OL
283									
285	SSO-GTI								
401	SBT-Cel		SSO-OL	SBT-Inh	SBT-Cel				
452	SBT,SSO,SSP	SSP-Ole	SSO-OL	SBT,SSO,SSP	SBT,SSO,SSP	SSO-OL	SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
615	SBT	SBT		SBT	SBT		SBT	SBT	SBT
616	Lum-Lab						Lum-Lab	Lum-Lab	Lum-Lab
635	SSP-OL	SSP-OL		SSP-OL			SSP-OL	SSP-OL	SSP-OL
702	SSO,SBT	SSP	SSO,SBT,SSP	SSO,SBT	SSO,SBT		SSO,SBT	SSO,SBT	SSO,SBT
714	SBT-Cel/Life,SSO-OL			SBT-Cel/Life,SSO-OL			SBT-Cel/Life,SSO-OL	SBT-Cel/Life,SSO-OL	SBT-Cel/Life,SSO-OL
726	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
732	SBT-Inh	SBT-Inh	SSO-Lum	SBT-Inh			SBT-Inh	SBT-Inh	SBT-Inh
769	SSO,SBT	SSO,SSP,SBT		SSO,SBT	SSO,SBT,SSP		SSO,SBT	SSO,SBT	SSO,SBT
805	SSO,SBT,SSP			SSO,SBT,SSP			SSO,SBT,SSP	SSO-Lum,SBT	SSO-Lum,SBT
1113	SSP-Ole			SSP-Ole	SSP-Ole,SSO-OL		SSP-Ole	SSP-Ole,SSO-OL	SSP-Ole
1189	SBT-SeC	SSP-Life	SSO-OL	SBT-SeC	SBT-SeC		SBT-SeC	SBT-SeC,SSP-Life	SBT-SeC,SSP-Life,Ole
1212	SSO-OL	SSP-Ole		SSO-OL,SSP-Ole	SSP-Ole		SSO-OL,SSP-Ole	SSO-OL,SSP-Ole	SSO-OL,SSP-Ole

PARTICIPANTS AND METHODS

CENTER	DRB1	DRB3/4/5	DQA1	DQB1	DPB1	DPA1	A-Locus	B-Locus	C-Locus
1251	SSO-Lab,SSP-Ole	SSP-Ole	SSO-Lab,SSP-Ole	SSO-Lab,SSP-Ole	SSO-Lab,SSP-Ole		SSO-Lab,SSP-Ole	SSO-Lab,SSP-Ole	SSO-Lab,SSP-Ole
1498	SBT-Con	SSP-Invit	SSP-Invit	SBT-Con	SSP-Invit		SBT	SBT	SBT
1647	SBT,SSP-Life	SSP-Link	SSP-Link	SBT,SSP-Life	SBT,SSP-Life	SSP-Link	SBT,SSP-Life	SBT,SSP-Life	SBT,SSP-Life
1686	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP
2013	SSO,SBT			SSO,SBT			SSO,SBT	SSO,SBT	SSO,SBT
2015							OL,Ole,Abb	OL,Ole,Abb	OL,Ole,Abb
2347	SSP,SSO,SBT	SSP,SSO	SSP,SSO	SSP,SSO,SBT	SSP,SSO	SSO	SSP,SSO,SBT	SSP,SSO,SBT	SSP,SSO,SBT
2411	SSO,SBT,SSP			SSO,SBT,SSP			SSO,SBT,SSP	SSO,SBT,SSP	SSO,SBT,SSP
2518	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
2549	SBT,SSO,SSP	SSO-OL	SSO-OL,SSP-Invit	SSO-OL,SSP-Invit	SSO-OL		SBT,SSO,SSP	SBT,SSO,SSP	SBT,SSO,SSP
3261	SBTGenDx			SBTGenDx					
3264	SSP,SSO,SBT	SSP-Ole	SSO-Ingen	SSP,SSO,SBT	SSP-Ole,SBT-At		SSP,SSO,SBT	SSP,SSO,SBT	SSP-Ole,SBT-At
3325	SSP-Invit	SSP-Invit	SSP-Invit	SSP-Invit	SSP-Invit		SSP-Invit	SSP-Invit	SSP-Invit
3410	SBT,SSP,SSO			SBT,SSP,SSO			SBT,SSP,SSO	SBT,SSP,SSO	SBT,SSP,SSO
3438	SBT-TxBio,SSO-OL			SBT-TxBio,SSO-OL			SBT-TxBio,SSO-OL	SBT-TxBio,SSO-OL	SBT-TxBio,SSO-OL
3600	SSP-Link	SSP-Link	SSP-Link	SSP-Link	SSP-Link	SSP-Link	SSP-Link	SSP-Link	SSP-Link
3614	SSO-Oli,SSP		SSO-Oli	SSO-Oli			SSO-Oli,SSP	SSO-Oli,SSP	SSO-Oli,SSP
3625	SSP,SBT	SSP		SSP,SBT	SSP,SBT		SSP,SBT	SSP,SBT	SSP,SBT
3807	SBT-Life	SBT-Life	SBT-Life	SBT-Life	SBT-Life	SBT-Life	SBT-Life	SBT,SSP-Life	SBT,SSP-Life
3849									
4420	WakFlow			WakFlow	WakFlow		WakFlow	WakFlow	WakFlow
4545	STB-Lt,SSO-OL	SSO-OL	SSO-OL,SSP-Invit	SBT-Lt,SSO-OL	SBT-Lt,SSO-OL		SBT-Lt,SSS-Ole	SBT-Lt,SSS-Ole	SBT,SSO,SSP
4551	SSO-OL,SSP-Ole	SSP-Ole	SSO-OL	SSO-OL,SSP-Ole	SSO-OL	SSO-OL	SBT-Pro,SSP-Ole	SBT-Pro,SSP-Ole	SBT-Pro,SSP-Ole
4585	SSO-Lum		SSO-Lum	SSO-Lum			SSO-Lum	SSO-Lum	SSO-Lum
4653	SSO-OL		SSO-OL	SSO-OL			SSO-OL	SSO-OL	SSO-OL
5451					SBT-Maas		SSP,SBT-Maas		
6051	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab	SSO-Lab
6313	SSO-Gen,SBT-At			SSO-Gen,SBT-At			SSO-Gen,SBT-At	SSO-Gen,SBT-At	SSO-Gen,SBT-At
9221	SSP-Invit,SSO-OL	SSP-Invit,SSO-OL	SSO-OL	SSP-Invit,SSO-OL	SSP-Invit,SSO-OL	SSO-OL	SSP-Invit,SSO-OL	SSP-Invit,SSO-OL	SSP-Invit,SSO-OL
197H	SBT-Abb			SBT-Abb,SSO-OL	SBT-Abb,SSO-OL		SBT-Abb	SBT-Abb	SBT-Abb
197L	SSO-OL	SSO-OL	SSO-OL,SSP-Life	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
284H	SSP-OL	SSP-OL	SSP-OL	SSP-OL			SSP-OL	SSP-OL	SSP-OL
284L	SSP-OL	SSP-OL	SSP-OL	SSP-OL			SSP-OL	SSP-OL	SSP-OL
4582H	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP
4582L	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP	SSO,SSP