

UCLA INTERNATIONAL HLA DNA EXCHANGE—161ST SUMMARY



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DNA Sample	
#987	#990
#988	#991
#989	#992

DNA #987 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A*26:01-A*33:03-B*40:06-B*58:01-C*03:02-C*12:02-DRB1*03:01-DRB1*13:01-DRB3*01:01-DRB3*02:02-DQA1*01:03-DQA1*05:01-DQB1*02:01-DQB1*06:03-DPA1*01:03-DPB1*02:01-DPB1*04:01.

Four participants reporting NGS results could not exclude DRB1*03:147. DRB1*03:147 differs from DRB1*03:01:01:01 by 1 nucleotide substitution at codon 233 in exon 5 (G->C) resulting in a new protein (AGA -> ACA) as noted in *Characterization of the novel HLA-DRB1*03:147 allele by sequencing-based typing* (Ralazamahaleo M, Elsermans V, Top I, Guidicelli G, Visentin J. HLA. 2019; 93:53-54. <https://doi.org/10.1111/tan.13419>).

Interestingly the B*40:06 typing for this Caucasian: Arab/Middle Eastern donor is consistent with the typing of an Asian donor. As seen in the haplotype below, the class I combination is found exclusively in Asians, with a very strong frequency.

The likely class I associations for this cell are A*26:01-B*40:06-C*12:02 and A*33:03-B*58:01-C*03:02, with respective frequencies of HF=0.00028 and HF=0.04458, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #987 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9.

DNA #988 HISPANIC

The consensus type for this sample from a Hispanic donor is A*02:01-A*68:01-B*40:20-B*51:02-C*03:04-C*08:01-DRB1*08:02-DRB1*14:06-DRB3*01:01-DQA1*04:01-DQA1*05:03-DQB1*03:01-DQB1*04:02-DPA1*01:03-DPB1*04:02.

The likely class II associations for this cell are DRB1*08:02-DQB1*04:02 and DRB1*14:06-DQB1*03:01, with respective frequencies of HF=0.05612 and HF=0.02319, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #988 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12.

DNA #989 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A*01:01-A*29:02-B*08:01-B*45:01-C*06:02-C*07:01-DRB1*04:01-DRB4*01:03-DQA1*03:01-DQA1*03:03-DQB1*03:01-DQB1*03:02-DPA1*01:03-DPB1*04:01:01G-DPB1*04:02.

Seven participants reporting NGS results reported the presence of DPB1*126:01 and DPB1*665:01 or DPB1*105:01. HLA-DPB1 locus is well known for generating ambiguities and is often not possible to report the genotype unambiguously, as noted in *Resolving MiSeq-Generated Ambiguities in HLA-DPB1 Typing in Using the Oxford Nanopore Technology* (Duke J et al. The Journal of Molecular Diagnostics, 2019. Vol. 21, No. 5).

The likely associations for this cell are A*01:01-B*08:01-C*07:01-DRB1*04:01 and A*29:02-B*45:01-C*06:02-DRB1*04:01, with respective frequencies of HF=0.00263 and HF=0.00149, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #989 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15.



DNA Sample	
#987	#990
#988	#991
#989	#992

DNA #990 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A*01:01-A*31:01-B*08:01-B*40:01-C*03:04-C*07:01-DRB1*04:04-DRB1*11:01-DRB3*02:02-DRB4*01:03-DQA1*03:01-DQA1*05:05-DQB1*03:01-DQB1*03:02-DPA1*01:03-DPB1*03:01.

The likely class I associations in this cell are A*01:01-B*08:01-C*07:01 and A*31:01-B*40:01-C*03:04, with respective frequencies of HF=0.09556 and HF=0.00861, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #990 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18.

DNA #991 ASIAN

The consensus type for this sample from an Asian donor is A*01:01-A*02:01-B*15:25-B*52:01-C*04:03-C*12:02-DRB1*09:01-DRB1*15:01-DRB4*01:03-DRB5*01:01-DQA1*01:02-DQA1*03:02-DQB1*03:03-DQB1*05:02-DPA1*01:03-DPA1*02:02-DPB1*04:01-DPB1*05:01.

Fifteen participants reporting NGS results reported the presence of DPB1*04:01:15. The sequence of DPB1*04:01:15 differs from the closest allele DPB1*04:01:01:01 at the position 351 (C>A) in exon 2, as noted in *The novel allele, HLA-DPB1*04:01:15, is shared by a cord blood unit and corresponding maternal sample* (Dabin T, et al. Tissue Antigens, 2014. Volume 83, Issue 3: 201-203).

The likely class II associations in this cell are DRB1*09:01-DQB1*03:03 and DRB1*15:01-DQB1*05:02, with respective frequencies of HF=0.09664 and HF=0.00838, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #991 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21.

DNA #992 ASIAN

The consensus type for this sample from an Asian donor is A*11:01-A*34:01-B*15:02-B*15:21-C*04:03-C*08:01-DRB1*15:02-DRB5*01:01-DQA1*01:02-DQB1*05:02--DPA1*02:02-DPB1*01:01-DPB1*05:01.

The likely class I associations in this cell are A*11:01-B*15:02-C*08:01 and A*34:01-B*15:21-C*04:03, with respective frequencies of HF=0.02020 and HF=0.00170, as seen exclusively in Asians, according to the NMDP Bioinformatics website.

The results for DNA #992 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24.

ACKNOWLEDGMENTS:

The UCLA Immunogenetics Center would like to express our deepest thanks to One Legacy and all organ and tissue donors and their families for giving the gift of knowledge by their generous donation to the education and advancement of the study of HLA. We would also like to thank the NMDP Bioinformatics website (<https://bioinformatics.bethematchclinical.org>) and the 40 participants reporting their NGS results (See Tables 7, 10, 13, 16, 19, 22).

Table 1. Summary of the 161st DNA Exchange (DNA #987)

A				B				C			
55 labs High / 68 labs Low		% (n)		57 labs High / 69 labs Low		% (n)		55 labs High / 65 labs Low		% (n)	
A*26:01:01:01	11(6)	A*33:03:01	31(17)	B*40:06:01:01	2 (1)	B*58:01:01	30(17)	C*03:02:02:01	2 (1)	C*12:02:02:01	11(6)
A*26:01:01	22(12)	A*33:03:01G	13(7)	B*40:06:01:02	9 (5)	B*58:01:01G	9 (5)	C*03:02:02	29(16)	C*12:02:02	22(12)
A*26:01:01G	13(7)	A*33:03P	4 (2)	B*40:06:01	21(12)	B*58:01P	3 (2)	C*03:02:01G	5 (3)	C*12:02:01G	5 (3)
A*26:01P	6 (3)	A*33:03	49(27)	B*40:06:01G	5 (3)	B*58:01	58(33)	C*03:02P	4 (2)	C*12:02P	4 (2)
A*26:01	48(26)	<i>A*33:01</i>	4 (2)	B*40:06P	3 (2)	B*58	100(69)	C*03:02	60(33)	C*12:02	58(32)
A*26	100(68)	A*33	100(68)	B*40:06	60(34)			C*03	100(65)	C*12	100(65)
				B*40	100(69)						
DRB1				DRB3/4/5				DQA1			
59 labs High / 68 labs Low		% (n)		34 labs High / 45 labs Low		% (n)		44 labs High / 54 labs Low		% (n)	
DRB1*03:01:01:01	2 (1)	DRB1*13:01:01:01	2 (1)	DRB3*01:01:02	41(14)	DRB3*02:02:01:02	3 (1)	DQA1*01:03:01:02	5 (2)	DQA1*05:01:01:03	11(5)
DRB1*03:01:01	8 (5)	DRB1*13:01:01	10(6)	DRB3*01:01:02G	6 (2)	DRB3*02:02:01	35(12)	DQA1*01:03:01	33(14)	DQA1*05:01:01	27(12)
DRB1*03:01:08	2 (1)	DRB1*13:01:01G	10(6)	DRB3*01:01P	3 (1)	DRB3*02:02:01G	6 (2)	DQA1*01:03:01G	7 (3)	DQA1*05:01:01G	7 (3)
DRB1*03:01:01G	17(10)	DRB1*13:01P	5 (3)	DRB3*01:01	50(17)	DRB3*02:02P	6 (2)	DQA1*01:03	56(24)	DQA1*05:01	54(24)
DRB1*03:01P	17(10)	DRB1*13:01	73(43)	DRB3*01	76(34)	DRB3*02:02	50(17)	DQA1*01	100(54)	DQA1*05	100(53)
DRB1*03:01	54(32)	DRB1*13	99(67)	DRB3*PRESENT	24(11)	DRB3*02	77(34)				
DRB1*03	100(68)	<i>DRB1*11</i>	1 (1)			DRB3*PRESENT	23(10)				
DQB1				DPA1				DPB1			
56 labs High / 67 labs Low		% (n)		30 labs High / 33 labs Low		% (n)		50 labs High / 33 labs Low		% (n)	
DQB1*02:01:01	27(15)	DQB1*06:03:01:01	5 (3)	DPA1*01:03:01	33(10)			DPB1*02:01:02	30(15)	DPB1*04:01:01:02	2 (1)
DQB1*02:01:01G	16(9)	DQB1*06:03:01	21(12)	DPA1*01:03:01G	7 (2)			DPB1*02:01:02G	8 (4)	DPB1*04:01:01	29(14)
DQB1*02:01P	5 (3)	DQB1*06:03:01G	7 (4)	DPA1*01:03P	7 (2)			DPB1*02:01P	10(5)	DPB1*04:01:01G	10(5)
DQB1*02:01	51(28)	DQB1*06:03P	4 (2)	DPA1*01:03	53(16)			DPB1*02:01	52(26)	DPB1*04:01P	10(5)
DQB1*02	100(67)	DQB1*06:03	62(35)	DPA1*01	100(33)			DPB1*02(DP201)	100(33)	DPB1*04:01	49(24)
		DQB1*06	100(67)							DPB*04(DP401)	100(32)

Discrepant results from consensus are italicized in Tables 1-6

Table 2. Summary of the 161st DNA Exchange (DNA #988)

A				B				C			
56 labs High / 67 labs Low		% (n)		57 labs High / 68 labs Low		% (n)		55 labs High / 64 labs Low		% (n)	
A*02:01:01:01	5 (3)	A*68:01:02:01	7 (4)	B*40:20:01:01	10(6)	B*51:02:01	33(19)	C*03:04:01:01	2 (1)	C*08:01:01:01	11(6)
A*02:01:01	20(11)	A*68:01:02	20(11)	B*40:20	88(50)	B*51:02P	2 (1)	C*03:04:01	29(16)	C*08:01:01	7 (4)
A*02:01:01G	14(8)	A*68:01:02G	14(8)	<i>B*40:11</i>	2 (1)	B*51:02	63(36)	C*03:04:01G	7 (4)	C*08:01:01G	22(12)
A*02:01P	12(7)	A*68:01P	11(6)	B*40	100(68)	<i>B*51:01</i>	2 (1)	C*03:04P	4 (2)	C*08:01P	4 (2)
A*02:01	46(26)	A*68:01	45(25)			B*51	100(68)	C*03:04	56(30)	C*08:01	56(31)
A*02:35	2 (1)	<i>A*68:05</i>	2 (1)					C*03:02	2 (1)	C*08	100(64)
A*02	100(67)	A*68	100(67)					C*03	100(64)		

DRB1				DRB3/4/5				DQA1			
60 labs High / 66 labs Low		% (n)		34 labs High / 44 labs Low				43 labs High / 52 labs Low		% (n)	
DRB1*08:02:01	32(19)	DRB1*14:06:01	32(19)	DRB3*01:01:02:01	3 (1)			DQA1*04:01:01	38(16)	DQA1*05:03:01:01	14(6)
DRB1*08:02:01G	5 (3)	DRB1*14:06P	3 (2)	DRB3*01:01:02	35(12)			DQA1*04:01:01G	2 (1)	DQA1*05:03:01	26(11)
DRB1*08:02	63(38)	DRB1*14:06	65(39)	DRB3*01:01:02G	6 (2)			DQA1*04:01	59(25)	DQA1*05:01:01G	5 (2)
DRB1*08	100(66)	DRB1*14	98(65)	DRB3*01:01P	6 (2)			DQA1*04	100(52)	DQA1*05:01P	2 (1)
		<i>DRB1*03</i>	1 (1)	DRB3*01:01	50(17)					DQA1*05:03	53(23)
				DRB3*01	77(34)					DQA1*05	100(52)
				DRB3*PRESENT	23(10)						

DQB1				DPA1				DPB1			
57 labs High / 65 labs Low		% (n)		30 labs High / 34 labs Low		% (n)		49 labs High / 32 labs Low		% (n)	
DQB1*03:01:01:01	2 (1)	DQB1*04:02:01:04	7 (4)	DPA1*01:03:01	43(13)			DPB1*04:02:01	33(16)	DPB1*04:02:01	33(16)
DQB1*03:01:01	12(7)	DQB1*04:02:01	18(10)	DPA1*01:03:01G	7 (2)			DPB1*04:02:01G	4 (2)	DPB1*04:02:01G	6 (3)
DQB1*03:01:01G	25(14)	DQB1*04:02:01G	9 (5)	DPA1*01:03P	3 (1)			<i>DPB1*02:01:02G</i>	2 (1)	DPB1*04:02P	8 (4)
DQB1*03:01P	5 (3)	DQB1*04:02P	3 (2)	DPA1*01:03	47(14)			DPB1*04:02P	8 (4)	DPB1*04:02	52(25)
DQB1*03:01	55(31)	DQB1*04:02	63(36)	DPA1*01	100(34)			DPB1*04:02	53(26)	DPB1*04(DP402)	97(30)
DQB1*03	100(65)	DQB1*04	100(65)					DPB1*04(DP402)	97(31)	<i>DPB1*105</i>	3 (1)
								<i>DPB1*02(DP201)</i>	3 (1)		

Discrepant results from consensus are italicized in Tables 1-6

Table 3. Summary of the 161st DNA Exchange (DNA #989)

A				B				C			
54 labs High / 67 labs Low		% (n)		55 labs High / 68 labs Low		% (n)		53 labs High / 63 labs Low		% (n)	
A*01:01:01:01	7 (4)	A*29:02:01:02	9 (5)	B*08:01:01:01	6 (3)	B*45:01:01	29(16)	C*06:02:01:03	6 (3)	C*07:01:01:01	2 (1)
A*01:01:01	21(11)	A*29:02:01:01	2 (1)	B*08:01:01	24(13)	B*45:01:01G	9 (5)	C*06:02:01	23(12)	C*07:01:01	29(15)
A*01:01:01G	15(8)	A*29:02:01	18(10)	B*08:01:01G	11(6)	B*45:01P	4 (2)	C*06:02:01G	9 (5)	C*07:01:01G	10(5)
A*01:01P	2 (1)	A*29:02:01G	11(6)	B*08:01P	4 (2)	B*45:01	58(32)	C*06:02P	2 (1)	C*07:01P	4 (2)
A*01:01	55(29)	A*29:02P	4 (2)	B*08:01	56(30)	B*45	100(68)	C*06:02	60(32)	C*07:01	55(28)
A*01	100(67)	A*29:02	50(27)	B*08	100(68)			C*06	100(63)	C*07	100(63)
		<i>A*29:01</i>	6 (3)								
		A*29	100(67)								
DRB1				DRB3/4/5				DQA1			
57 labs High / 68 labs Low		% (n)		31 labs High / 75 labs Low		% (n)		44 labs High / 49 labs Low		% (n)	
DRB1*04:01:01	28(16)			DRB4*01:03:01	45(14)			DQA1*03:01:01	37(16)	DQA1*03:03:01:01	11(5)
DRB1*04:01P	9 (5)			DRB4*01:01P	3 (1)			DQA1*03:01:01G	5 (2)	DQA1*03:03:01	25(11)
DRB1*04:01	63(36)			DRB4*01:03	45(14)			DQA1*03:01	2 (1)	DQA1*03:01:01G	7 (3)
DRB1*04	100(68)			<i>DRB4*01:01</i>	6 (2)			DQA1*03	56(24)	DQA1*03:01P	2 (1)
				DRB4*01	44(33)					DQA1*03:03	48(21)
				DRB4*PRESENT	15(11)					<i>DQA1*03:02</i>	2 (1)
										<i>DQA1*02:01</i>	2 (1)
										NEW	2 (1)
										DQA1*03	100(47)
DQB1				DPA1				DPB1			
56 labs High / 65 labs Low		% (n)		30 labs High / 35 labs Low		% (n)		49 labs High / 32 labs Low		% (n)	
DQB1*03:01:01:01	2 (1)	DQB1*03:02:01	18(10)	DPA1*01:03:01:02	3 (1)			DPB1*04:01:01	10(5)	DPB1*04:02:01	10(5)
DQB1*03:01:01	14(8)	DQB1*03:02:01G	14(8)	DPA1*01:03:01	40(12)			DPB1*04:01:01G	35(17)	DBP1*04:02:01G	38(17)
DQB1*03:01:01G	20(11)	DQB1*03:02P	5 (3)	DPA1*01:03:01G	7 (2)			DPB1*04:01P	20(10)	DBP1*04:02P	20(10)
DQB1*03:01P	4 (2)	DQB1*03:02	62(25)	DPA1*01:03P	3 (1)			DPB1*04:01	35(17)	DBP1*04:02	35(17)
DQB1*03:01	60(33)	DQB1*03	100(64)	DPA1*01:03	47(14)			DPB1*04(DP401)	97(31)	DBP1*04(DP402)	100(32)
DQB1*03	100(65)			DPA1*01	100(35)			<i>DPB1*04(DP402)</i>	3 (1)		

Discrepant results from consensus are italicized in Tables 1-6

Table 4. Summary of the 161st DNA Exchange (DNA #990)

A				B				C			
53 labs High / 66 labs Low		% (n)		53 labs High / 67 labs Low		% (n)		51 labs High / 63 labs Low		% (n)	
A*01:01:01:01	8 (4)	A*31:01:02:01	13(7)	B*08:01:01:01	6 (3)	B*40:01:02	32(17)	C*03:04:01:01	12(6)	C*07:01:01:01	2 (1)
A*01:01:01	25(13)	A*31:01:02	21(11)	B*08:01:01	27(14)	B*40:01:01G	7 (4)	C*03:04:01	22(11)	C*07:01:01	31(16)
A*01:01:01G	11(5)	A*31:01:02G	11 (6)	B*08:01:01G	8 (4)	B*40:01P	4 (2)	C*03:04:01G	8 (4)	C*07:01:01G	10(5)
A*01:01P	2 (1)	A*31:01P	2 (1)	B*08:01P	56(29)	B*40:01	57(30)	C*03:04P	4 (2)	C*07:01P	6 (3)
A*01:01	54(28)	A*31:01	53(28)	B*08:01	4 (2)	B*40	99(66)	C*03:04	51(26)	C*07:01	51(26)
A*01	100(66)	A*31	100(66)	B*08	100(67)	<i>B*41</i>	1 (1)	C*03:02	4 (2)	C*07	100(63)
								C*03	98(62)		
								C*01	2 (1)		

DRB1				DRB3/4/5				DQA1			
55 labs High / 67 labs Low		% (n)		33 labs High / 45 labs Low		% (n)		44 labs High / 49 labs Low		% (n)	
DRB1*04:04:01	33(18)	DRB1*11:01:01	33(18)	DRB3*02:02:01:02	3 (1)	DRB4*01:03:01	42(14)	DQA1*03:01:01	36(16)	DQA1*05:05:01:02	5 (2)
DRB1*04:04P	4 (2)	DRB1*11:01:01G	2 (1)	DRB3*02:02:01	42(14)	DRB4*01:01P	3 (1)	DQA1*03:01:01G	4 (2)	DQA1*05:05:01	30(13)
DRB1*04:04	64(35)	DRB1*11:01P	2 (1)	DRB3*02:02P	3 (1)	DRB4*01:03	48(16)	DQA1*03:01	59(26)	DQA1*05:01:01G	5 (2)
DRB1*04	100(67)	DRB1*11:01	64(35)	DRB3*02:02	48(16)	<i>DRB4*01:01</i>	6 (2)	DQA1*03	100(49)	DQA1*05:01P	2 (1)
		DRB1*11	100(67)	<i>DRB3*02:01</i>	3 (1)	DRB4*01	71(32)			DQA1*05:05	58(25)
				DRB3*02	71(32)	DRB4*PRESENT	29(13)			DQA1*05	100(49)
				DRB3*PRESENT	29(13)						

DQB1				DPA1				DPB1			
53 labs High / 64 labs Low		% (n)		30 labs High / 33 labs Low		% (n)		55 labs High / 39 labs Low		% (n)	
DQB1*03:01:01:03	2 (1)	DQB1*03:02:01:02	6 (3)	DPA1*01:03:01:03	7 (2)			DPB1*03:01:01	34(16)		
DQB1*03:01:01:01	2 (1)	DQB1*03:02:01	17(9)	DPA1*01:03:01	37(11)			DPB1*03:01:01G	8 (4)		
DQB1*03:01:01	15(8)	DQB1*03:02:01G	13(7)	DPA1*01:03:01G	7 (2)			DPB1*03:01P	8 (4)		
DQB1*03:01:01G	19(10)	DQB1*03:02P	6 (3)	DPA1*01:03P	3 (1)			DPB1*03:01	49(23)		
DQB1*03:01P	6 (3)	DQB1*03:02	58(31)	DPA1*01:03	47(14)			DPB1*03	100(34)		
DQB1*03:01	57(30)	DQB1*03	100(62)	DPA1*01	100(33)						
DQB1*03	100(64)										

Discrepant results from consensus are italicized in Tables 1-6

Table 5. Summary of the 161st DNA Exchange (DNA #991)

A				B				C			
53 labs High / 57 labs Low		% (n)		56 labs High / 59 labs Low		% (n)		54 labs High / 54 labs Low		% (n)	
A*01:01:01:01	7 (4)	A*02:01:01:01	6 (3)	B*15:25:01	36(20)	B*52:01:01:02	9 (5)	C*04:03:01:01	7 (4)	C*12:02:02:01	17(9)
A*01:01:01	28(15)	A*02:01:01	30(16)	B*15:25:01G	5 (3)	B*52:01:01:01	2 (1)	C*04:03:01	33(18)	C*12:02:02	22(12)
A*01:01:01G	13(7)	A*02:01:01G	11(6)	B*15:25P	5 (3)	B*52:01:01	24(13)	C*04:03P	4 (2)	C*12:02:01G	6 (3)
A*01:01P	2 (1)	A*02:01P	4 (2)	B*15:25	54(30)	B*52:01:01G	11(6)	C*04:03	56(30)	C*12:02P	2 (1)
A*01:01	49(26)	A*02:01	49(26)	B*15	98(57)	B*52:01P	2 (1)	C*04	98(53)	C*12:02	54(29)
A*01	98(56)	A*02	100(57)	B*08	2 (1)	B*52:01	53(29)	C*07	2 (1)	C*12	98(53)
A*32	2 (1)					B*52	97(56)			C*16	2 (1)
						B*45	2 (1)				
						B*15	2 (1)				

DRB1				DRB3/4/5				DQA1			
55 labs High / 58 labs Low		% (n)		33 labs High / 37 labs Low		% (n)		39 labs High / 41 labs Low		% (n)	
DRB1*09:01:02	16(9)	DRB1*15:01:01:01	5 (3)	DRB4*01:03:02	44(14)	DRB5*01:01:01	45(15)	DQA1*01:02:01:01	5 (2)	DQA1*03:02:01:01	18(7)
DRB1*09:01:02G	27(15)	DRB1*15:01:01	24(13)	DRB4*01:01:01G	3 (1)	DRB5*01:01:01G	3 (1)	DQA1*01:02:01:03	3 (1)	DQA1*03:02:01	26(10)
DRB1*09:01P	18(10)	DRB1*15:01:01G	11(6)	DRB4*01:01P	3 (1)	DRB5*01:01P	3 (1)	DQA1*01:02:01	34(13)	DQA1*03:01:01G	8 (3)
DRB1*09:01	39(22)	DRB1*15:01P	7 (4)	DRB4*01:03	44(14)	DRB5*01:01	48(16)	DQA1*01:02:01G	8 (3)	DQA1*03:02	46(18)
DRB1*09	98(57)	DRB1*15:01	35(29)	<i>DRB4*01:01</i>	6 (2)	DRB5*01	72(26)	DQA1*01:02	50(19)	<i>DQA1*03:01</i>	3 (1)
<i>DRB1*03</i>	2 (1)	DRB1*15	98(57)	DRB4*01	73(27)	<i>DRB3*01</i>	3 (1)	DQA1*01	98(40)	DQA1*03	98(40)
			2 (1)	<i>DRB3*01</i>	3 (1)	DRB5*PRESENT	25(9)	<i>DQA1*04</i>	2 (1)	<i>DQA1*05</i>	2 (1)
				DRB4*PRESENT	24(9)						

DQB1				DPA1				DPB1			
55 labs High / 55 labs Low		% (n)		31 labs High / 31 labs Low		% (n)		49 labs High / 33 labs Low		% (n)	
DQB1*03:03:02:01	4 (2)	DQB1*05:02:01:01	5 (3)	DPA1*01:03:01:04	6 (2)	DPA1*02:02:02	50(15)	DPB1*04:01:15	25(12)	DPB1*05:01:01	33(16)
DQB1*03:03:02:02	2 (1)	DQB1*05:02:01	29(16)	DPA1*01:03:01	35(11)	DPA1*02:02P	3 (1)	DPB1*04:01:01G	4 (2)	DPB1*05:01:01G	10(5)
DQB1*03:03:02	33(18)	DQB1*05:02:01G	7 (4)	DPA1*01:03:01G	10(3)	DPA1*02:02	47(14)	DPB1*04:01P	12(6)	DPB1*05:01P	10(5)
DQB1*03:03:02G	4 (2)	DQB1*05:02P	5 (3)	DPA1*01:03P	3 (1)	DPA1*02	100(31)	DPB1*04:01	58(28)	DPB1*05:01	47(23)
DQB1*03:03P	6 (3)	DQB1*05:02	51(28)	DPA1*01:03	45(14)			DPB1*04(DP401)	100(32)	DPB1*05	97(32)
DQB1*03:03	51(18)	<i>DQB1*05:01</i>	2 (1)	DPA1*01	100(31)					<i>DPB1*01</i>	3 (1)
DQB1*03	94(52)	DQB1*05	96(53)								
<i>DQB1*02</i>	4 (2)	<i>DQB1*04</i>	2 (1)								
<i>DQB1*05</i>	2 (1)	<i>DQB1*02</i>	2 (1)								

Discrepant results from consensus are italicized in Tables 1-6

Table 6. Summary of the 161st DNA Exchange (DNA #992)

A				B				C			
52 labs High / 56 labs Low		% (n)		54 labs High / 57 labs Low		% (n)		52 labs High / 53 labs Low		% (n)	
A*11:01:01:01	6 (3)	A*34:01:01:01	10(5)	B*15:02:01	36(19)	B*15:21:01:01	6 (3)	C*04:03:01:01	10(5)	C*08:01:01:01	11(6)
A*11:01:01	31(16)	A*34:01:01	29(15)	B*15:02:01G	6 (3)	B*15:21:01	35(19)	C*04:03:01	33(17)	C*08:01:01	27(14)
A*11:01:01G	11(6)	A*34:01:01G	8 (4)	B*15:02P	2 (1)	B*15:21	59(32)	C*04:03P	4 (2)	C*08:01:01G	6 (3)
A*11:01P	4 (2)	A*34:01P	2 (1)	B*15:02	57(30)	B*15	100(56)	C*04:03	54(28)	C*08:01P	2 (1)
A*11:01	48(25)	A*34:01	52(27)	B*15	100(57)			C*04	100(53)	C*08:01	54(28)
A*11	100(56)	A*34	98(54)							C*08	100(53)
		A*69	2 (1)								
DRB1				DRB3/4/5				DQA1			
55 labs High / 55 labs Low		% (n)		32 labs High / 36 labs Low		% (n)		38 labs High / 41 labs Low		% (n)	
DRB1*15:02:01	22(12)			DRB5*01:01:01	44(14)			DQA1*01:02:01	39(15)		
DRB1*15:02:01G	24(13)			DRB5*01:01:01G	6 (2)			DQA1*01:02:01G	10(4)		
DRB1*15:02P	14(8)			DRB5*01:01P	3 (1)			DQA1*01:02	47(18)		
DRB1*15:02	36(20)			DRB5*01:01	47(15)			<i>DQA1*01:01</i>	3 (1)		
<i>DRB1*15:01</i>	4 (2)			DRB5*01	72(26)			DQA1*01	100(41)		
DRB1*15	100(55)			DRB5*PRESENT	25(9)						
				DRB3*PRESENT	2 (1)						
DQB1				DPA1				DPB1			
53 labs High / 55 labs Low		% (n)		28 labs High / 29 labs Low		% (n)		47 labs High / 32 labs Low		% (n)	
DQB1*05:02:01:01	6 (3)			DPA1*02:02:02	50(14)			DPB1*01:01:01	34(16)	DPB1*05:01:01	34(16)
DQB1*05:02:01	28(15)			DPA1*02:02P	7 (2)			DPB1*01:01:01G	6 (3)	DPB1*05:01:01G	6 (3)
DQB1*05:02:01G	7 (4)			DPA1*02:02	43(12)			DPB1*01:01P	8 (4)	DBP1*05:01P	8 (4)
DQB1*05:02P	7 (4)			DPA1*02	100(29)			DPB1*01:01	51(24)	DPB1*05:01	51(24)
DQB1*05:02	51(27)							DPB1*01	100(32)	DPB1*05	100(32)
DQB1*05	98(54)										
<i>DQB1*03</i>	2 (1)										

Discrepant results from consensus are italicized in Tables 1-6

Table 7. Individual laboratory results for DNA # 987 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01	13:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
16	26:01:01:01	33:03:01	40:06:01:02	58:01:01	03:02:02	12:02:02:01	03:01	13:01	3*01:01:02	3*02:02:01:02	01:03:01:02	05:01:01:03	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
124	26:01:01:01	33:03:01	40:06:01:02	58:01:01	03:02:02	12:02:02:01	03:01:01	13:01	3*01:01:02C	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	FTA	FTA
134	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01P	13:01	3*01:01:02	3*02:02P	01:03:01	05:01:01	02:01:01G	06:03	NT	NT	02:01:02	04:01:01
138	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	26:01:01G	33:03:01G	40:06:01G	58:01:01G	03:02:01G	12:02:01G	03:01P	13:01P	3*01:01P	3*02:02P	01:03:01G	05:01:01G	02:01P	06:03P	NT	NT	02:01:02G	04:01:01G
188	26:01:01:01	33:03	40:06:01:02	58:01	03:02	12:02:02:01	03:01P	13:01	NT	NT	01:03	05:01:01:03	02:01:01	06:03:01:01	01:03P	01:03P	02:01	04:01
189	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
192	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02:01	03:01:01G	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01G	06:03	01:03	01:03	02:01:02	04:01:01
195	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01	13:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
205	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
207	26:01	33:03	40:06	58:01	03:02	12:02	03:01P	13:01	3*01:01	3*02:02	01:03	05:01	NT	NT	NT	NT	02:01	04:01
213	26:01	33:03	40:06	58:01	03:02	12:02	03:01P	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	NT	NT	02:01	04:01
218	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	02:01	04:01
240	26:01	33:03	40:06	58:01	03:02	12:02	03:01P	13:01	NT	NT	01:03	05:01	02:01P	06:03	NT	NT	02:01P	04:01P
258	26:01:01:01	33:03:01	40:06:01:02	58:01:01	03:02:02	12:02:02:01	03:01	13:01	3*01:01:02	3*02:02:01G	01:03:01	05:01:01:03	02:01:01G	06:03	01:03	01:03	02:01:02	04:01:01
264	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01:01G	13:01:01G	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
279	26:01	33:03	40:06	58:01	03:02	12:02	03:01P	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	NT	NT	02:01	04:01
294	26:01P	33:03P	40:06P	58:01P	03:02P	12:02P	03:01P	13:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01:01G	13:01:01G	NT	NT	01:03:01:02	05:01:01:03	02:01:01	06:03:01:01	NT	NT	02:01:02	04:01:01
321	26:01:01:01	33:03:01	40:06:01:02	58:01:01	03:02:02	12:02:02	03:01P	13:01P	3*01:01:02	3*02:02:01	01:03:01	05:01:01:03	02:01:01	06:03:01	01:03P	01:03P	02:01:02	04:01:01:02
323	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
338	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	02:01	04:01
403	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01:01G	13:01:01	NT	NT	NT	NT	02:01:01G	06:03	NT	NT	02:01:02	04:01:01
702	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
726	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
805	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
1189	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	05:01	NT	NT	01:03	01:03	02:01	04:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	04:01
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01:08	13:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
3325	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01:01G
3410	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	02:01	04:01
3614	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
4582	26:01	33:03	40:06	58:01	03:02	12:02	03:01:01G	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
6051	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
14982	26:01:01	33:03:01	40:06:01	58:01:01	03:02:02	12:02:02	03:01	13:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
Final Consensus based on High Resolution	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01

Table 8. Individual laboratory results for DNA # 987 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
144	26:01:01G	33:03:01G	40:06	58:01:01G	NT	NT	03:01:01G	13:01:01G	NT	NT	01:03	05:01	02:01:01G	06:03:01G	01:03:01G	01:03:01G	02:01:02G	04:01:01G
151	26:01:01G	33:03:01G	40:06	58:01	03:02	12:02	03:01:01G	13:01:01G	NT	NT	NT	NT	02:01:01G	06:03:01G	NT	NT	02:01:02G	04:01:01G
155	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	NT	NT
162	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	NT	NT
190	26:01:01:01	33:03:01	40:06:01:01	58:01:01	03:02:02:01	12:02:02:01	03:01:01:01	13:01:01:01	NT	NT	NT	NT	02:01:01	06:03:01:01	NT	NT	NT	NT
193	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	NT	NT
209	26:01:01G	33:03:01G	40:06:01G	58:01:01G	03:02:01G	12:02:01G	03:01:01G	13:01:01G	3*01:01:02G	3*02:02:01G	01:03:01G	05:01:01G	02:01:01G	06:03:01G	NT	NT	02:01P	04:01P
226	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	02:01	04:01
238	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	NT	NT	NT	NT
239	NT	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	NT	NT	02:01P	04:01P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	05:01	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	03:01	13:01	NT	NT	01:03	05:01	02:01	06:03	NT	NT	NT	NT
267	26:01	33:01	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	NT	NT	NT	NT
278	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
288	NT	NT	NT	NT	NT	NT	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	NT	NT	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	02:01	04:01
313	26:01:01G	33:03:01G	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	03:01	13:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	26:01	33:01	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
319	26:01P	33:03	40:06	58:01	03:02	12:02	03:01P	13:01	NT	NT	NT	NT	02:01P	06:03P	NT	NT	NT	NT
402	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	02:01	04:01
1686	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	02:01	04:01
2549	26:01:01G	33:03:01G	40:06	58:01:01G	03:02:01G	12:02:01G	03:01:01G	13:01:01G	NT	NT	01:03:01G	05:01:01G	02:01:01G	06:03:01G	01:03:01G	01:03:01G	02:01:02G	04:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	04:01P
3849	NT	NT	40:06:01G	58:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	NT	NT	01:03	05:01	NT	06:03	NT	NT	02:01	NT
4545	26:01:01G	33:03:01G	40:06	58:01	03:02	12:02	03:01:01G	13:01	NT	NT	NT	05:01	02:01:01G	06:03	01:03	01:03	02:01	04:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4613	26:01P	33:03P	40:06P	58:01P	03:02P	12:02P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	04:01P
5451	NT	NT	NT	NT	NT	NT	03:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	NT	NT	NT	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	26:01	33:03	40:06	58:01	03:02	12:02	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	02:01	04:01

Table 9. Individual laboratory results for DNA # 987 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
139	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	01	01	02(DP201)	04(DP401)
144	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	01	01	02(DP201)	04(DP401)
147	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	NT	NT	02(DP201)	04(DP401)
148	26	33	40	58	03	12	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	26	33	40	58	NT	NT	03	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
189	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
190	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	01	05	02	06	NT	NT	NT	NT
192	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
195	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
199	NT	NT	NT	NT	NT	NT	03	11	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
205	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
207	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	05	02	06	NT	NT	NT	NT
213	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
228	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
238	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	NT	NT	NT	NT
239	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	NT	NT
240	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
242	26	33	40	58	03	12	03	13	3*PRESENT	NT	01	05	02	06	NT	NT	NT	NT
244	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
252	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
255	26	33	40	58	NT	NT	03	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
262	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	01	05	02	06	NT	NT	NT	NT
265	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
266	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	01	01	02(DP201)	04(DP401)
267	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	NT	NT	NT	NT
278	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
279	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	01	01	02(DP201)	04(DP401)
285	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
286	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
288	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
289	NT	NT	40	58	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
290	26	33	40	58	NT	NT	03	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	NT	NT	NT	NT
305	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
309	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	01	01	02(DP201)	04(DP401)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
316	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	01	01	02(DP201)	04(DP401)
318	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	01	01	02(DP201)	04(DP401)
323	26	33	40	58	03	12	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
328	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
329	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
334	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT

Table 9. Individual laboratory results for DNA # 987 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
336	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
338	26	33	40	58	03	12	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
339	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
702	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
714	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
726	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
732	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
805	26	33	40	58	03	12	03	13	3*01	3*02	NT	NT	02	06	NT	NT	NT	NT
1212	26	33	40	58	03	12	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
1251	26	33	40	58	03	12	03	13	3*01	3*02	NT	NT	02	06	NT	NT	02(DP201)	04(DP401)
1647	26	33	40	58	03	12	03	13	3*PRESENT	3*PRESENT	01	05	02	06	01	01	02(DP201)	04(DP401)
2063	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
2518	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
2549	NT	NT	NT	NT	NT	NT	NT	NT	3*01	3*02	NT	NT	NT	NT	NT	NT	NT	NT
3600	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	NT	NT
3625	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
3849	26	33	40	58	03	12	03	13	3*01	3*02	NT	NT	02	06	NT	NT	NT	NT
4420	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	02(DP201)	NT
4545	NT	NT	NT	NT	NT	NT	NT	NT	3*01	3*02	01	NT	NT	NT	NT	NT	NT	NT
4582	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
4585	26	33	40	58	03	12	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
5451	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	NT	NT
8050	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)
9221	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	NT	02(DP201)	04(DP401)
9222	26	33	40	58	03	12	NT	NT	NT	NT	01	05	02	06	NT	NT	NT	NT
Final Consensus	26	33	40	58	03	12	03	13	3*01	3*02	01	05	02	06	01	01	02(DP201)	04(DP401)

Table 10. Individual laboratory results for DNA # 988 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01:01G	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
16	02:01:01:01	68:01:02:01	40:20:01:01	51:02:01	03:04:01	08:01:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01:01	03:01	04:02:01:04	01:03:01	01:03:01	04:02:01	04:02:01
124	02:01:01:01	68:01:02:01	40:20	51:02:01	03:04:01	08:01:01:01	08:02:01	14:06:01	3*01:01:02G	NP	04:01:01	05:03:01	03:01:01G	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
134	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01:01G	04:02	NT	NT	04:02:01	04:02:01
138	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
148	NT	NT	40:20	51:02:01	NT	NT	08:02:01	14:06:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	68:01:02G	40:20	51:02:01	03:04:01G	08:01:01G	08:02P	14:06P	3*01:01P	NP	04:01:01G	05:01:01G	03:01P	04:02P	NT	NT	04:02:01G	04:02:01G
188	02:01P	68:01P	40:20:01:01	51:02	03:04	08:01:01:01	08:02	14:06:01	NT	NT	04:01	05:03:01:01	03:01	04:02:01:04	01:03P	01:03P	04:02	04:02
189	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
192	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01:01	03:01:01G	04:02	01:03:01	01:03:01	04:02:01	04:02:01
195	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01P	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
205	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
207	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	NT	NT	04:02	04:02
213	02:01P	68:01P	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	NT	NT	04:02	04:02
218	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	04:02	04:02
240	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	04:01	05:03	03:01	04:02	NT	NT	04:02P	04:02P
258	02:01:01	68:01:02:01	40:20:01:01	51:02:01	03:04:01	08:01:01:01	08:02:01	14:06:01	3*01:01:02G	NP	04:01:01	05:03:01:01	03:01:01G	04:02	01:03:01	01:03:01	04:02:01	04:02:01
264	02:01:01G	68:01:02G	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
279	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	NT	NT	04:02	04:02
294	02:01P	68:01P	40:20	51:02	03:04P	08:01P	08:02P	14:06	3*01:01P	NP	NT	05:01P	NT	NT	NT	NT	NT	NT
298	02:01:01G	68:01:02G	40:20:01:01	51:02:01	03:04:01	08:01:01	08:02:01	14:06	NT	NT	04:01:01	05:03:01:01	03:01:01	04:02:01:04	NT	NT	04:02:01	04:02:01
321	02:01P	68:01P	40:20:01:01	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02:01	3*01:01:02:01	04:01:01	05:03:01:01	03:01P	04:02:01:04	01:03:01	01:03:01	04:02:01	04:02:01
323	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	NT	NT
338	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	04:02	NT
403	02:01:01	68:01:02	40:20:01:01	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	NT	NT	NT	NT	03:01:01G	04:02	NT	NT	04:02:01	04:02:01
702	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NT	04:01:01	05:03:01	03:01:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
726	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
805	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01:01G	04:02	01:03	01:03	04:02	04:02
1189	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	05:03	NT	NT	01:03	01:03	04:02	04:02
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02	04:02
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
3325	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
3410	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	04:02	04:02
3614	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
4582	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
6051	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
14982	02:01:01	68:01:02	40:20	51:02:01	03:04:01	08:01:01	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01:01G	04:02:01G	01:03:01	01:03:01	04:02:01	04:02:01

Final Consensus based on High Resolution	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
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Table 11. Individual laboratory results for DNA # 988 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
144	02:01:01G	68:01:02G	40:20	51:02	03:04:01G	08:01:01G	08:02P	14:06P	NT	NT	04:01	05:01:01G	03:01:01G	04:02:01G	01:03:01G	01:03:01G	04:02:01G	04:02:01G
151	02:01:01G	68:01:02G	40:20	51:02	03:04:01G	08:01:01G	08:02	14:06	NT	NT	NT	NT	03:01:01G	04:02:01G	NT	NT	04:02	04:02
155	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	NT	NT
162	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01:01G	04:02	NT	NT	NT	NT
190	02:01:01:01	68:01:02:01	40:20	51:02:01	03:04:01:01	08:01:01:01	08:02:01	14:06:01	NT	NT	NT	NT	03:01:01:01	04:02:01	NT	NT	NT	NT
193	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	04:02	04:02
238	02:01P	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	NT	NT	NT	NT
239	NT	68:01	40:20	51:02	NT	NT	08:02	14:06	3*01:01	NT	04:01	05:03	03:01	04:02	NT	NT	04:02P	04:02P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02:01	NT	NT	NT	NT	NT	08:02	14:06	NT	NT	04:01	05:03	03:01	04:02	NT	NT	NT	NT
267	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	NT	NT	NT	NT
278	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NT	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
288	NT	NT	NT	NT	NT	NT	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	04:02	04:02
313	02:01:01G	68:01:02G	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	08:02	14:06	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	68:01	40:11	51:01	03:02	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
319	02:01P	68:01P	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01:01G	04:02P	NT	NT	NT	NT
402	02:35	68:05	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	NT	NT	03:01	04:02	NT	NT	04:02	04:02
1686	02:01	68:01:02	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NT	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	04:02	04:02
2549	02:01:01G	68:01:02G	40:20	51:02	03:04:01G	08:01:01G	08:02	14:06	NT	NT	04:01	05:03	03:01:01G	04:02:01G	01:03:01G	01:03:01G	02:01:02G	04:02:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	04:02P
3849	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	02:01	NT	NT	51:02	NT	08:01	08:02	14:06	NT	NT	04:01	05:03	NT	04:02	NT	NT	NT	NT
4545	02:01:01G	68:01:02G	40:20	51:02	03:04	08:01	08:02	14:06	NT	NT	04:01	05:03	03:01:01G	04:02:01G	01:03	01:03	04:02	04:02
4585	NT	NT	40:20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4613	02:01P	68:01P	40:20	51:02P	03:04P	08:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	04:02P
5451	NT	NT	NT	NT	NT	NT	08:02:01	14:06:01	3*01:01:02	NP	04:01:01	05:03:01	03:01:01	04:02:01	NT	NT	NT	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	68:01	40:20	51:02	03:04	08:01	08:02	14:06	3*01:01	NP	04:01	05:03	03:01	04:02	01:03	01:03	04:02	04:02

Table 12. Individual laboratory results for DNA # 988 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
139	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
144	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
147	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	NT	NT	04(DP402)	04(DP402)
148	02	68	40	51	03	08	08	14	NT	NT	NT	NT	03	04	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	68	40	51	NT	NT	08	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
189	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
190	02	68	40	51	03	08	08	14	3*PRESENT	NP	04	05	03	04	NT	NT	NT	NT
192	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
195	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
199	NT	NT	NT	NT	NT	NT	08	03	3*PRESENT	3*PRESENT	NT	NT	03	04	NT	NT	NT	NT
205	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
207	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
228	02	68	40	51	03	08	08	14	3*PRESENT	NP	NT	NT	03	04	NT	NT	NT	NT
238	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	NT	NT	NT	NT
239	02	68	40	51	03	08	08	14	3*01	NT	04	05	03	04	01	01	NT	NT
240	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
252	02	68	40	51	03	08	08	14	3*PRESENT	NP	NT	NT	03	04	NT	NT	NT	NT
255	02	68	40	51	NT	NT	08	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	68	40	51	03	08	08	14	3*PRESENT	NP	NT	NT	03	04	NT	NT	NT	NT
262	02	68	40	51	03	08	08	14	3*PRESENT	NP	04	05	03	04	NT	NT	NT	NT
265	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
266	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
267	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	NT	NT	NT	NT
278	02	68	40	51	03	08	08	14	3*01	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
279	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
285	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
286	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
288	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
289	NT	NT	40	51	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
290	02	68	40	51	NT	NT	08	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	NT	NT	NT	NT
305	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
309	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
316	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
318	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
323	02	68	40	51	03	08	08	14	NT	NT	NT	NT	03	04	NT	NT	NT	NT
328	02	68	40	51	03	08	NT	NT	NT	NT	04	05	03	04	NT	NT	NT	NT
329	02	68	40	51	03	08	08	14	3*PRESENT	NP	NT	NT	03	04	NT	NT	NT	NT
334	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT

Table 12. Individual laboratory results for DNA # 988 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
336	02	68	40	51	03	08	08	14	3*PRESENT	3*PRESENT	NT	NT	03	04	NT	NT	NT	NT
338	02	68	40	51	03	08	08	14	NT	NT	NT	NT	03	04	NT	NT	NT	NT
339	02	68	40	51	03	08	08	14	3*PRESENT	NP	NT	NT	03	04	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	105
702	02	68	40	51	03	08	08	14	3*01	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
714	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	02(DP201)	04(DP402)
726	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
732	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
805	02	68	40	51	03	08	08	14	3*01	NP	NT	NT	03	04	NT	NT	NT	NT
1212	02	68	40	51	03	08	08	14	NT	NT	NT	NT	03	04	NT	NT	NT	NT
1251	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
1647	02	68	40	51	03	08	08	14	3*PRESENT	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
2063	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
2518	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
2549	NT	NT	NT	NT	NT	NT	NT	NT	3*01	NP	NT	NT	NT	NT	NT	NT	NT	NT
3600	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	NT	NT
3625	02	68	40	51	03	08	08	14	3*01	NT	04	05	03	04	01	01	04(DP402)	04(DP402)
3849	02	68	40	51	03	08	08	14	3*01	NP	NT	NT	03	04	NT	NT	NT	NT
4420	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
4545	NT	NT	NT	NT	NT	NT	NT	NT	3*01	NP	NT	NT	NT	NT	NT	NT	NT	NT
4582	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
4585	02	68	40	51	03	08	08	14	NT	NT	04	05	03	04	NT	NT	NT	NT
5451	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	NT	NT
8050	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)
9221	02	68	40	51	03	08	08	14	3*01	NT	04	05	03	04	01	NT	04(DP402)	NT
9222	02	68	40	51	03	08	NT	NT	NT	NT	04	05	03	04	NT	NT	NT	NT
Final Consensus	02	68	40	51	03	08	08	14	3*01	NP	04	05	03	04	01	01	04(DP402)	04(DP402)

Table 13. Individual laboratory results for DNA # 989 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01G	03:02:01G	01:03:01	01:03:01	04:01:01G	04:02:01G
16	01:01:01:01	29:02:01:02	08:01:01:01	45:01:01	06:02:01:03	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01:01	03:01	03:02:01	01:03:01:02	01:03:01	04:01:01G	04:02:01G
124	01:01:01:01	29:02:01:02	08:01:01:01	45:01:01	06:02:01:03	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01G	03:02:01G	01:03:01	01:03:01	04:01:01G	04:02:01G
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01	04:02
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	01:01:01G	29:02:01G	08:01:01G	45:01:01G	06:02:01G	07:01:01G	04:01P	04:01P	4*01:01P	4*01:01P	03:01:01G	03:01:01G	03:01P	03:02P	NT	NT	04:01:01G	04:02:01G
188	01:01	29:02:01:02	08:01	45:01	06:02	07:01	04:01P	04:01P	NT	NT	03:01:01	03:03:01:01	03:01	03:02	01:03P	01:03P	04:01P	04:02P
189	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	03:01	03:03	03:01	03:02	01:03	01:03	04:01	04:02
192	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01:01	03:01:01G	03:02	01:03:01	01:03:01	04:01:01G	04:02:01G
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01	04:02:01
207	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	NT	NT	04:01P	04:02P
213	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	NT	NT	04:01P	04:02P
218	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01	04:02
240	01:01	29:02	08:01	45:01	06:02	07:01	04:01P	04:01P	NT	NT	03:01P	03:01P	03:01	03:02P	NT	NT	04:01P	04:02P
258	01:01:01	29:02:01:02	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01:01	03:01	03:02	01:03:01	01:03:01	04:01:01G	04:02:01G
264	01:01:01G	29:02:01G	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G
279	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	NT	NT	04:01P	04:02P
294	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	03:01	03:03	03:01	03:02	NT	NT	04:01P	04:02P
298	01:01:01:01	29:02:01:02	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	NT	NT	03:01:01	03:03:01:01	03:01:01	03:02:01	NT	NT	04:01:01G	04:02:01G
321	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01:03	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01P	03:02P	01:03:01	01:03:01	04:01P	04:02P
323	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NEW	NT	NT	NT	NT	NT	NT	NT
338	01:01	29:02	08:01	45:01	06:02	07:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01	04:02	
403	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01	04:01	NT	NT	NT	NT	03:01:01G	03:02:01G	NT	NT	04:01:01G	04:02:01G
702	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01	04:02:01
726	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01	04:02
805	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01:01G	03:02	01:03	01:03	04:01	04:02
1189	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01	04:02
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	03:03	NT	NT	01:03	01:03	04:01	04:02
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	04:02
2063	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01	04:02:01
2862	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01	04:02:01
3325	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02:01G
3410	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01	04:02
3614	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02:01G
4582	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02:01G
6051	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01	04:02:01
14982	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01G	03:02:01G	01:03:01	01:03:01	04:01:01G	04:02:01G

Final Consensus based on High Resolution	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02
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Table 14. Individual laboratory results for DNA # 989 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
144	01:01:01G	29:02:01G	08:01:01G	45:01:01G	NT	NT	04:01P	04:01P	NT	NT	03:01	03:01:01G	03:01:01G	03:02:01G	01:03:01G	01:03:01G	04:01:01G	04:02:01G
151	01:01:01G	29:02:01G	08:01:01G	45:01:01G	06:02:01G	07:01:01G	04:01	04:01	NT	NT	NT	NT	03:01:01G	03:02:01G	NT	NT	04:01:01G	04:02:01G
155	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
162	01:01	29:02	08:01	45:01	06:02	07:01:01G	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
190	01:01:01:01	29:02:01:01	08:01:01:01	45:01:01	06:02:01G	07:01:01:01	04:01:01	04:01:01	NT	NT	NT	NT	03:01:01:01	03:02:01	NT	NT	NT	NT
193	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	01:01	29:01	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01	04:02
238	01:01	29:02	08:01	45:01	06:02	07:01P	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	NT	NT	NT	NT
239	NT	29:02	08:01	45:01	06:02	NT	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	NT	NT	04:01P	04:02P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	03:01	03:03	03:01	03:02	NT	NT	NT	NT
267	01:01	29:01	08:01	45:01	06:02	07:01	04:01	04:01	4*01:01	4*01:03	03:01	03:02	03:01	03:02	NT	NT	NT	NT
278	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01	04:02
288	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
311	NT																	
312	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01	04:02
313	01:01:01G	29:02	08:01	45:01	06:02:01G	07:01:01G	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	01:01	29:01	08:01	45:01	06:02	07:01	04:01	04:01	4*01:01	4*01:01	03:01	02:01	03:01	03:02	01:03	01:03	04:01	04:02
319	01:01:01G	29:02P	08:01P	45:01P	06:02	07:01	04:01P	04:01P	NT	NT	NT	NT	03:01:01G	03:02	NT	NT	NT	NT
402	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01	04:02
1686	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	NT	03:01	03:03	03:01	03:02	01:03	01:03	04:01	04:02
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	04:01	04:02
2549	01:01:01G	29:02:01G	08:01:01G	45:01:01G	06:02:01G	07:01:01G	04:01	04:01	NT	NT	03:01:01G	03:01:01G	03:01:01G	03:02:01G	01:03:01G	01:03:01G	04:01:01G	04:02:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
3849	NT	NT	08:01:01G	45:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	01:01	29:02	NT	45:01	06:02	NT	04:01	04:01	NT	NT	03:01	03:03	NT	03:02	NT	NT	NT	NT
4545	01:01:01G	29:02:01G	08:01:01G	45:01	06:02	07:01	04:01	04:01	NT	NT	03:01	03:03	03:01:01G	03:02:01G	01:03	01:03	04:01:01G	04:02:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	03:03	NT	NT	NT	NT	NT	NT
4613	01:01P	29:02P	08:01P	45:01P	06:02P	07:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
5451	NT	NT	NT	NT	NT	NT	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	NT	NT	NT	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02

Table 15. Individual laboratory results for DNA # 989 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
138	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
139	01	29	08	45	06	07	04	NT	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
144	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
147	01	29	08	45	06	07	04	04	4*01	NT	03	03	03	03	NT	NT	04(DP401)	04(DP402)
148	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	01	29	08	45	NT	NT	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
189	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
190	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
192	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
195	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
199	NT	NT	NT	NT	NT	NT	04	15	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
205	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
207	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
209	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
213	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
228	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
238	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	NT	NT	NT	NT
239	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	NT	NT
240	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
252	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
255	01	29	08	45	NT	NT	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
262	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
265	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
266	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
267	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	NT	NT	NT	NT
278	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
279	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
288	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
289	NT	NT	08	45	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
290	01	29	08	45	NT	NT	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	01	29	08	45	06	07	04	04	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
305	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
309	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
316	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
318	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
323	01	29	08	45	06	07	04	NT	4*01	NT	03		03	03	01		04(DP401)	04(DP402)
328	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
329	01	29	08	45	06	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	03	NT	NT	NT	NT
334	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT

Table 15. Individual laboratory results for DNA # 989 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
336	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
338	01	29	08	45	06	07	04	NT	NT	NT	NT	NT	03	NT	NT	NT	NT	NT
339	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
702	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
714	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
726	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
732	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
805	01	29	08	45	06	07	04	04	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
1212	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
1251	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
1647	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	03	03	03	03	01	01	04(DP401)	04(DP402)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
2549	NT	NT	NT	NT	NT	NT	NT	NT	4*01	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	NT	NT
3625	01	29	08	45	06	07	04	04	4*01	NT	03	03	03	03	01	01	NT	NT
3849	01	29	08	45	06	07	04	04	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
4420	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
4545	NT	NT	NT	NT	NT	NT	NT	NT	4*01	4*01	NT	NT	NT	NT	NT	NT	NT	NT
4582	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
4585	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
5451	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	NT	NT
8050	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
9221	01	29	08	45	06	07	04	NT	4*01	NT	03	NT	03	03	01	NT	04(DP401)	04(DP402)
9222	01	29	08	45	NT	NT	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
Final Consensus	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)

Table 16. Individual laboratory results for DNA # 990 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01G	03:02:01G	01:03:01	01:03:01	03:01:01	03:01:01
16	01:01:01:01	31:01:02:01	08:01:01:01	40:01:02	03:04:01:01	07:01:01	04:04:01	11:01:01	3*02:02:01:02	4*01:03:01	03:01:01	05:05:01:02	03:01	03:02:01:02	01:03:01:03	01:03:01:03	03:01:01	03:01:01
124	01:01:01:01	31:01:02:01	08:01:01:01	40:01:02	03:04:01:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01G	03:02:01G	01:03:01	01:03:01	03:01:01	03:01:01
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
148	01:01:01	31:01:02:01	08:01:01	40:01:02	03:04	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03	NT	NT	03:01:01G	03:02:01	NT	NT	03:01:01	03:01:01
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	01:01:01G	31:01:02G	08:01:01G	40:01:01G	03:04:01G	07:01:01G	04:04P	11:01P	3*02:02P	4*01:01P	03:01:01G	05:01:01G	03:01P	03:02P	NT	NT	03:01:01G	03:01:01G
188	01:01	31:01:02:01	08:01	40:01	03:04:01:01	07:01	04:04	11:01	NT	NT	03:01:01	05:05	03:01	03:02:01:02	01:03P	01:03P	03:01	03:01
189	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	NT	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
192	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01G	03:02	01:03:01	01:03:01	03:01:01	03:01:01
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	03:01:01	03:01:01
207	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	03:01	03:01
213	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	03:01	03:01
218	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	NT	NT	03:01	03:02	NT	NT	03:01	03:01
240	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	03:01	05:01P	03:01P	03:02P	NT	NT	03:01P	03:01P
258	01:01:01	31:01:02:01	08:01:01	40:01:02	03:04:01:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02	01:03:01:03	01:03:01:03	03:01:01	03:01:01
264	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	03:01:01	03:01:01
279	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	03:01	05:05	03:01	03:02	NT	NT	03:01	03:01
294	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	03:01	05:05	03:01	03:02	NT	NT	03:01	03:01
298	01:01:01:01	31:01:02:01	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	NT	NT	03:01:01	05:05:01:02	03:01:01:03	03:02:01:02	NT	NT	03:01:01	03:01:01
321	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01P	03:02P	01:03:01	01:03:01	03:01:01	03:01:01
323	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
338	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	NT	NT	03:01	03:02	NT	NT	03:01	NT
403	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	NT	NT	NT	NT	03:01:01G	03:02:01G	NT	NT	03:01:01	03:01:01
702	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	03:01:01	03:01:01
726	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
805	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
1189	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
1212	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	03:01	03:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	4*01:03	03:01	NT	NT	NT	01:03	01:03	03:01	03:01
2063	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	03:01:01	03:01:01
2862	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	03:01:01	03:01:01
3325	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
3410	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	NT	NT	03:01	03:02	NT	NT	03:01	03:01
3614	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
4582	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
6051	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	03:01:01	03:01:01
14982	01:01:01	31:01:02	08:01:01	40:01:02	03:04:01	07:01:01	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01G	03:02:01G	01:03:01	01:03:01	03:01:01	03:01:01
Final Consensus based on High Resolution	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01

Table 17. Individual laboratory results for DNA # 990 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
144	01:01:01G	31:01:02G	08:01:01G	40:01:01G	03:04:01G	07:01:01G	04:04P	11:01:01G	NT	NT	03:01	05:05	03:01:01G	03:02:01G	01:03:01G	01:03:01G	03:01:01G	03:01:01G
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
155	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
162	01:01	31:01	08:01	40:01	03:04	07:01:01G	04:04	11:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
190	01:01:01:01	31:01:02:01	08:01:01:01	40:01:02	03:04:01:01	07:01:01:01	04:04:01	11:01:01	NT	NT	NT	NT	03:01:01:01	03:02:01	NT	NT	NT	NT
193	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	03:01	05:05	03:01	03:02	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	NT	NT	NT	NT	03:01	03:02	NT	NT	03:01	03:01
238	01:01	31:01	08:01	40:01	03:04	07:01P	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	NT	NT
239	NT	31:01	08:01	40:01	NT	NT	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	03:01P	03:01P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	05:05	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	01:01	31:01	08:01	40:01	03:02	07:01	04:04	11:01	3*02:02	4*01:01	03:01	05:05	03:01	03:02	NT	NT	NT	NT
278	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
288	NT	NT	NT	NT	NT	NT	04:04	11:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	05:05	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	01:01:01G	31:01:02G	08:01	40:01	03:04:01G	07:01:01G	04:04	11:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	04:04	11:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	01:01	31:01	08:01	40:01	03:02	07:01	04:04	11:01	3*02:01	4*01:01	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
319	01:01:01G	31:01:02G	08:01P	40:01P	03:04P	07:01P	04:04	11:01	NT	NT	NT	NT	03:01:01G	03:02	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1686	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	03:01:01G	03:01:01G
2549	01:01:01G	31:01:02G	08:01:01G	40:01:01G	03:04:01G	07:01:01G	04:04	11:01	NT	NT	03:01:01G	05:01:01G	03:01:01G	03:02:01G	01:03:01G	01:03:01G	03:01:01G	03:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01P	03:01P
3849	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	01:01	31:01	NT	40:01	NT	NT	04:04	11:01	NT	NT	03:01	05:05	NT	NT	NT	NT	NT	NT
4545	01:01:01G	31:01:02G	08:01:01G	40:01:01G	03:04	07:01	04:04	11:01	NT	NT	03:01	05:05	03:01:01G	03:02:01G	01:03	01:03	03:01	03:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4613	01:01P	31:01P	08:01P	40:01P	03:04P	07:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01P	03:01P
5451	NT	NT	NT	NT	NT	NT	04:04:01	11:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	NT	NT	NT	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	01:01	31:01	08:01	40:01	03:04	07:01	04:04	11:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	03:01	03:01

Table 18. Individual laboratory results for DNA # 990 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
138	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
139	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	01	01	03	03
144	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	01	01	03	03
147	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	NT	NT	03	03
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	01	31	08	40	03	07	04	11	NT	NT	NT	NT	03	03	NT	NT	03	03
152	01	31	08	40	NT	NT	04	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	01	01	03	03
189	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
190	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
192	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
195	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	01	01	03	03
199	NT	NT	NT	NT	NT	NT	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
205	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
213	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
215	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	NT	NT	03	NT	NT	NT	NT	NT
226	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
228	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
238	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	NT	NT	NT	NT
239	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	NT	NT
240	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
242	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
244	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
252	01	31	08	41	03	07	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
255	01	31	08	40	NT	NT	04	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
266	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	01	01	03	03
267	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	NT	NT	NT	NT
278	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
279	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
288	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
289	NT	NT	08	40	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
290	01	31	08	40	NT	NT	04	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	01	31	08	40	03	07	04	11	3*02	4*01	NT	NT	03	03	NT	NT	03	03
305	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
309	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	01	01	03	14
311	01	31	08	40	01	07	04	11	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	01	01	03	03
318	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	01	01	03	03
323	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	NT
328	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
329	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
334	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT

Table 18. Individual laboratory results for DNA # 990 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
336	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
338	01	31	08	40	03	07	04	11	NT	NT	NT	NT	03	NT	NT	NT	NT	NT
339	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
402	01	31	08	40	03	07	04	11	NT	NT	NT	NT	03	03	NT	NT	03	03
615	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
702	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
714	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
726	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
732	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
805	01	31	08	40	03	07	04	11	3*02	4*01	NT	NT	03	03	NT	NT	NT	NT
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
1647	01	31	08	40	03	07	04	11	3*PRESENT	4*PRESENT	03	05	03	03	01	01	03	03
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
2549	NT	NT	NT	NT	NT	NT	NT	NT	3*02	4*01	NT	NT	NT	NT	NT	NT	NT	NT
3600	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	NT	NT
3625	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
3849	01	31	08	40	03	07	04	11	3*02	4*01	NT	NT	03	03	NT	NT	NT	NT
4420	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
4545	NT	NT	NT	NT	NT	NT	NT	NT	3*02	4*01	NT	NT	NT	NT	NT	NT	NT	NT
4582	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
4585	01	31	08	40	03	07	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
5451	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	NT	NT
8050	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03
9221	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	NT	03	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	01	31	08	40	03	07	04	11	3*02	4*01	03	05	03	03	01	01	03	03

Table 19. Individual laboratory results for DNA # 991 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02G	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01	05:01:01
16	01:01:01:01	02:01:01:01	15:25:01	52:01:01:02	04:03:01	12:02:02:01	09:01:02	15:01:01:01	4*01:03:02	5*01:01:01	01:02:01:01	03:02:01:01	03:03:02	05:02:01:01	01:03:01:04	02:02:02	04:01	05:01:01
124	01:01:01:01	02:01:01:01	15:25:01	52:01:01:02	04:03:01:01	12:02:02:01	09:01:02G	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01:15	05:01:01
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01
138	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
148	01:01:01	02:01:01	15:25:01	52:01:01:02	04:03:01	12:02:02:01	09:01:02G	15:01:01	4*01:03	5*01:01:01	NT	NT	03:03:02	05:02:01	NT	NT	04:01	05:01:01
158	01:01:01	02:01:01	15:25:01	52:01:01:02	04:03:01	12:02:02:01	09:01:02G	15:01:01G	4*01:01:01G	5*01:01:01C	01:02:01	03:02:01:01	03:03:02	05:02:01	01:03:01G	02:02:02	04:01P	05:01:01
185	01:01:01G	02:01:01G	15:25:01G	52:01:01G	04:03:01	12:02:01G	09:01P	15:01P	4*01:01P	5*01:01P	01:02:01G	03:01:01G	03:03P	05:02P	NT	NT	04:01:15	05:01:01G
188	01:01	02:01	15:25	52:01	04:03:01:01	12:02:02:01	09:01P	15:01P	NT	NT	01:02	03:02:01:01	03:03:02:02	05:02	01:03P	02:02	04:01:15	05:01P
189	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	NT	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
192	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02:01	09:01:02G	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01	05:01:01
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01	05:01:01
207	01:01	02:01	15:25	52:01	04:03	12:02	09:01P	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	NT	NT	04:01:15	05:01
213	01:01	02:01	15:25	52:01	04:03	12:02	09:01P	15:01	NT	NT	01:02	03:02	03:03	05:02	NT	NT	04:01	05:01
218	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	04:01	05:01
240	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01P	15:01P	NT	NT	NT	NT	03:03P	05:02P	NT	NT	04:01P	05:01P
258	01:01:01	02:01:01	15:25:01	52:01:01:02	04:03:01:01	12:02:02:01	09:01:02G	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01:01	03:03:02	05:02:01	01:03:01:04	02:02:02	04:01:15	05:01:01
264	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01:15	05:01:01G
279	01:01	02:01	15:25	52:01	04:03	12:02	09:01P	15:01	NT	NT	01:02	03:02	03:03	05:02	NT	NT	04:01	05:01
294	NT	NT	15:25P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	01:01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02G	15:01:01	NT	NT	01:02:01:03	03:02:01:01	03:03:02:02	05:02:01:01	NT	NT	04:01:15	05:01:01
321	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01:01	12:02:02:01	09:01P	15:01:01:01	4*01:03:02	5*01:01:01	01:02:01:01	03:02:01:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01:15	05:01:01
323	01:01	02:01	15:25	52:01	04:03	12:02	09:01P	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	NT	NT
338	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	04:01	05:01
403	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02G	15:01:01G	NT	NT	NT	NT	03:03:02	05:02:01	NT	NT	04:01:15	05:01:01
702	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01P	05:01:01
726	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
805	01:01	02:01	15:25	52:01	04:03	12:02	09:01:02G	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
1189	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
1212	01:01	02:01	15:25	52:01	04:03	12:02	09:01P	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	NT	NT	04:01	05:01
1251	01:01:01G	02:01:01G	15:25:01	52:01:01G	04:03:01	12:02:02	09:01:02G	15:01:01G	4*01:03	NT	NT	NT	03:03:02	05:02:01G	01:03	02:02	04:01	05:01
2063	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01	05:01:01
2862	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01:15	05:01:01
3325	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
3410	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	04:01	05:01
3614	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
4582	01:01	02:01	15:25	52:01	04:03	12:02	09:01:02G	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
6051	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01:15	05:01:01
14982	01:01:01	02:01:01	15:25:01	52:01:01	04:03:01	12:02:02	09:01:02G	15:01:01G	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	01:03:01	02:02:02	04:01:15	05:01:01

Final Consensus based on High Resolution	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
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Table 20. Individual laboratory results for DNA # 991 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
144	01:01:01G	02:01:01G	15:25:01G	52:01:01G	04:03P	12:02:01G	09:01:02G	15:01:01G	NT	NT	01:02:01G	03:01:01G	03:03:02G	05:02:01G	01:03:01G	02:02P	04:01:01G	05:01:01G
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
155	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	NT	NT
162	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	NT	NT
190	01:01:01:01	02:01:01:01	15:25:01	52:01:01:01	04:03:01	12:02:02:01	09:01:02	15:01:01:01	NT	NT	NT	NT	03:03:02:01	05:02:01:01	NT	NT	NT	NT
193	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	04:01	05:01
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	NT	NT	04:01P	05:01P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:01	5*01:01	01:02	03:02	03:03	05:02	NT	NT	NT	NT
278	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
288	NT	NT	NT	NT	NT	NT	09:01	15:01	NT	NT	NT	NT	03:03	05:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	01:01:01G	02:01:01G	15:25	52:01:01G	04:03	12:02	09:01:02G	15:01	NT	NT	NT	NT	03:03:02G	05:02	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	09:01	15:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:01	5*01:01	01:02	03:01	03:03	05:01	01:03	02:02	04:01	05:01
319	01:01:01G	02:01P	15:25P	52:01	04:03	12:02	09:01P	15:01P	NT	NT	NT	NT	03:03P	05:02P	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1686	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	NT	04:01	05:01
2549	01:01:01G	02:01:01G	15:25	52:01:01G	04:03	12:02:01G	09:01:02G	15:01:01G	NT	NT	01:02:01G	03:01:01G	03:03	05:02:01G	01:03:01G	02:02:02	04:01:01G	05:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
3849	NT	NT	15:25:01G	52:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	01:01	02:01	15:25	52:01	04:03	12:02	09:01	NT	NT	NT	NT	03:02	NT	05:02	NT	NT	NT	05:01
4545	01:01:01G	02:01:01G	15:25	52:01	04:03	12:02	09:01	15:01	NT	5*01:01	01:02	03:02	03:03	05:02:01G	01:03	02:02	04:01	05:01:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4613	01:01P	02:01P	15:25P	52:01P	04:03P	12:02P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
5451	NT	NT	NT	NT	NT	NT	09:01:02	15:01:01	4*01:03:02	5*01:01:01	01:02:01	03:02:01	03:03:02	05:02:01	NT	NT	NT	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	01:01	02:01	15:25	52:01	04:03	12:02	09:01	15:01	4*01:03	5*01:01	01:02	03:02	03:03	05:02	01:03	02:02	04:01	05:01

Table 21. Individual laboratory results for DNA # 991 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	01	02	15	52	04	12	09	15	NT	NT	NT	NT	03	05	NT	NT	04(DP401)	05
138	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
139	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	01	02	04(DP401)	05
144	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	01	02	04(DP401)	05
147	NT	NT	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	NT	NT	NT	NT
151	01	02	15	52	04	12	09	15	NT	NT	NT	NT	03	05	NT	NT	04(DP401)	05
152	01	02	15	52	NT	NT	09	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
189	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
190	01	02	15	52	04	12	09	15	4*PRESENT	5*PRESENT	01	03	03	05	NT	NT	NT	NT
192	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
195	32	02	08	45	07	16	03	03	3*01	3*01	04	05	02	04	01	02	04(DP401)	01
199	NT	NT	NT	NT	NT	NT	09	15	4*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
205	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	01	02	04(DP401)	05
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
228	01	02	15	15	04	12	09	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	NT	NT
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	NT	NT	NT	NT
252	01	02	15	52	04	12	09	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
255	01	02	15	52	NT	NT	09	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	01	02	15	52	04	12	09	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
266	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	01	02	04(DP401)	05
267	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	NT	NT	NT	NT
278	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
279	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	NT	NT	NT	NT
288	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	NT	NT	NT	NT
289	NT	NT	15	52	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
290	01	02	15	52	NT	NT	09	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	01	02	15	52	04	12	09	15	NT	NT	NT	NT	03	05	NT	NT	04(DP401)	05
305	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	NT	NT	NT	NT
309	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	01	02	04(DP401)	05
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	01	02	04(DP401)	05
318	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	01	02	04(DP401)	05
323	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
328	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	NT	NT	NT	NT
329	01	02	15	52	04	12	09	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
334	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	NT	NT	NT	NT

Table 21. Individual laboratory results for DNA # 991 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
336	01	02	15	52	04	12	09	15	4*PRESENT	5*PRESENT	NT	NT	02	02	NT	NT	NT	NT
338	01	02	15	52	04	12	09	15	NT	NT	NT	NT	03	05	NT	NT	NT	NT
339	01	02	15	52	04	12	09	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
402	01	02	15	52	04	12	09	15	NT	NT	NT	NT	03	05	NT	NT	04(DP401)	05
615	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
702	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
714	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
805	01	02	15	52	04	12	09	15	4*01	5*01	NT	NT	03	05	NT	NT	NT	NT
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
1647	01	02	15	52	04	12	09	15	4*PRESENT	5*PRESENT	01	03	03	05	01	02	04(DP401)	05
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
2549	NT	NT	NT	NT	NT	NT	NT	NT	4*01	5*01	NT	NT	NT	NT	NT	NT	NT	NT
3600	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	NT	NT
3625	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
3849	01	02	15	52	04	12	09	15	4*01	5*01	NT	NT	03	05	NT	NT	NT	NT
4420	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	NT	NT	NT	05
4545	NT	NT	NT	NT	NT	NT	NT	NT	4*01	NT	NT	NT	NT	NT	NT	NT	NT	NT
4582	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
4585	01	02	15	52	04	12	09	15	NT	NT	01	03	03	05	NT	NT	NT	NT
5451	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	NT	NT
8050	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
9221	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	01	02	15	52	04	12	09	15	4*01	5*01	01	03	03	05	01	02	04(DP401)	05

Table 22. Individual laboratory results for DNA # 992 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
16	11:01:01:01	34:01:01:01	15:02:01	15:21:01:01	04:03:01:01	08:01:01:01	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01:01	05:02:01:01	02:02:02	02:02:02	01:01:01	05:01:01
124	11:01:01:01	34:01:01:01	15:02:01	15:21:01:01	04:03:01:01	08:01:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
134	NT	NT	NT	NT	NT	NT	15:02:01	15:02:01	NT	NT	NT	NT	NT	NT	NT	NT	01:01	05:01
138	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
148	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:01:01	NT	NT	05:02:01	05:02:01	NT	NT	01:01:01	05:01:01
158	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01G	15:02:01G	5*01:01:01G	5*01:01:01G	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
185	11:01:01G	34:01:01G	15:02:01G	15:21:01	04:03:01	08:01:01G	15:02P	15:02P	5*01:01P	5*01:01P	01:02:01G	01:02:01G	05:02P	05:02P	NT	NT	01:01:01G	05:01:01G
188	11:01	34:01:01:01	15:02	15:21:01:01	04:03:01:01	08:01:01:01	15:02P	15:02P	NT	NT	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
189	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
192	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
207	11:01	34:01	15:02	15:21	04:03	08:01	15:02P	15:02P	5*01:01	5*01:01	01:02	01:02	05:02	05:02	NT	NT	01:01	05:01
213	11:01	34:01	15:02	15:21	04:03	08:01	15:02P	15:02P	5*01:01	5*01:01	01:02	01:02	05:02	05:02	NT	NT	01:01	05:01
218	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	NT	NT	NT	NT	05:02	05:02	NT	NT	01:01	05:01
240	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02P	15:02P	NT	NT	NT	NT	05:02P	05:02P	NT	NT	01:01P	05:01P
258	11:01:01	34:01:01:01	15:02:01	15:21:01	04:03:01:01	08:01:01:01	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
264	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
279	11:01	34:01	15:02	15:21	04:03	08:01	15:02P	15:02P	NT	NT	01:02	01:02	05:02	05:02	NT	NT	01:01	05:01
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	11:01:01	34:01:01:01	15:02:01	15:21:01	04:03:01:01	08:01:01	15:02:01G	15:02:01G	NT	NT	01:02:01	01:02:01	05:02:01:01	05:02:01:01	NT	NT	01:01:01	05:01:01
321	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
323	11:01	34:01	15:02	15:21	04:03	08:01	15:02P	15:01	NT	NT	NT	NT	05:02	05:02	NT	NT	NT	NT
338	11:01	34:01	15:02	15:21	04:03	08:01	15:02	NT	NT	NT	NT	NT	05:02	05:02	NT	NT	01:01	05:01
403	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01	15:02:01	NT	NT	NT	NT	05:02:01	05:02:01	NT	NT	01:01:01	05:01:01
702	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
726	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
805	11:01	34:01	15:02	15:21	04:03	08:01	15:02:01G	15:02:01G	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
1189	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
1212	11:01	34:01	15:02	15:21	04:03	08:01	15:02P	15:02P	5*01:01	5*01:01	01:02	01:02	05:02	05:02	NT	NT	01:01	05:01
1251	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01G	15:02:01G	NT	NT	NT	NT	05:02:01G	05:02:01G	NT	NT	NT	NT
2063	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
2862	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
3325	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
3410	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	NT	NT	NT	NT	05:02	05:02	NT	NT	01:01	05:01
3614	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
4582	11:01	34:01	15:02	15:21	04:03	08:01	15:02:01G	15:02:01G	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
6051	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
14982	11:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
Final Consensus based on High Resolution	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01

Table 23. Individual laboratory results for DNA # 992 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
144	11:01:01G	34:01:01G	15:02:01G	15:21	04:03P	08:01:01G	15:02:01G	15:02:01G	NT	NT	01:02:01G	01:02:01G	05:02:01G	05:02:01G	02:02P	02:02P	01:01:01G	05:01:01G
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
155	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	NT	NT	NT	NT	05:02	05:02	NT	NT	NT	NT
190	11:01:01:01	34:01:01	15:02:01	15:21:01	04:03:01	08:01:01:01	15:02:01	15:02:01	NT	NT	NT	NT	05:02:01:01	05:02:01:01	NT	NT	NT	NT
193	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	NT	NT	NT	NT	05:02	05:02	NT	NT	NT	NT
209	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01:01G	5*01:01:01G	01:02:01G	01:02:01G	05:02P	05:02P	NT	NT	01:01P	05:01P
226	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	NT	NT	NT	NT	05:02	05:02	NT	NT	01:01	05:01
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	11:01	34:01	15:02	15:21	04:03	08:01	15:01	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	NT	NT	NT	NT
278	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
288	NT	NT	NT	NT	NT	NT	15:02	15:02	NT	NT	NT	NT	05:02	05:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	01:02	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	11:01:01G	34:01	15:02	15:21	04:03	08:01	15:02	15:02	NT	NT	NT	NT	05:02	05:02	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	15:02	15:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	11:01	34:01	15:02	15:21	04:03	08:01	15:01	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01
319	11:01P	34:01	15:02	15:21	04:03	08:01	15:02	15:02	NT	NT	NT	NT	05:02P	05:02P	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1686	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	NT	01:01	01:02	05:02	05:02	02:02	02:02	01:01	05:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	05:01
2549	11:01:01G	34:01:01G	15:02	15:21	04:03:01	08:01:01G	15:02:01G	15:02:01G	NT	NT	01:02:01G	01:02:01G	05:02:01G	05:02:01G	02:02:02	02:02:02	01:01:01G	05:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	05:01P
3849	11:01:01G	34:01:01G	15:02:01G	15:21:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	NT	NT	15:02	15:21	04:03	08:01	15:02	15:02	NT	NT	NT	NT	05:02	05:02	NT	NT	01:01	05:01
4545	11:01:01G	34:01	15:02	15:21	04:03	08:01	15:02:01G	15:02:01G	NT	NT	NT	NT	05:02:01G	05:02:01G	02:02P	02:02P	01:01	05:01
4585	NT	NT	NT	15:21	NT	NT	NT	NT	NT	NT	01:02	01:02	NT	NT	NT	NT	NT	NT
4613	11:01P	34:01P	15:02P	15:21	04:03P	08:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	05:01P
5451	NT	NT	NT	NT	NT	NT	15:02:01	15:02:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	05:02:01	05:02:01	NT	NT	NT	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	11:01	34:01	15:02	15:21	04:03	08:01	15:02	15:02	5*01:01	5*01:01	01:02	01:02	05:02	05:02	02:02	02:02	01:01	05:01

Table 24. Individual laboratory results for DNA # 992 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	11	34	15	15	04	08	15	15	NT	NT	NT	NT	05	05	NT	NT	01	05
138	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
139	11	34	15	15	04	08	15	NT	NT	NT	01	01	05	05	02	NT	01	05
144	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	02	02	01	05
147	NT	NT	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	NT	NT	NT	NT
151	11	34	15	15	04	08	15	15	NT	NT	NT	NT	05	05	NT	NT	01	05
152	11	34	15	15	NT	NT	15	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
189	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
190	11	34	15	15	04	08	15	15	5*PRESENT	5*PRESENT	01	01	05	05	NT	NT	NT	NT
192	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
195	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
199	NT	NT	NT	NT	NT	NT	15	15	3*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
205	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	05	05	NT	NT	NT	NT
213	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
228	11	34	15	15	04	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
252	11	34	15	15	04	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
255	11	34	15	15	NT	NT	15	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	11	34	15	15	04	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
266	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	02	02	01	05
267	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	NT	NT	NT	NT
278	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
279	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	02	02	01	05
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
288	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
289	NT	NT	15	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
290	11	34	15	15	NT	NT	15	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	11	34	15	15	04	08	15	15	NT	NT	NT	NT	05	05	NT	NT	01	05
305	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
309	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	02	02	01	05
311	11	34	15	15	04	08	15	15	5*PRESENT	5*PRESENT	01	01	05	05	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	02	02	01	05
318	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	02	02	01	05
323	11	34	15	15	04	08	15	15	5*01	5*01	01	03	05	05	02	02	01	05
328	11	34	15	15	04	08	15	15	NT	NT	NT	NT	05	05	NT	NT	NT	NT
329	11	69	15	15	04	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
334	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT

Table 24. Individual laboratory results for DNA # 992 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
336	11	34	15	15	04	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
338	11	34	15	NT	04	08	15	NT	NT	NT	NT	05	NT	NT	NT	NT	NT	NT
339	11	34	15	15	04	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
402	11	34	15	15	04	08	15	15	NT	NT	NT	NT	03	05	NT	NT	01	05
615	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
702	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
714	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
805	11	34	15	15	04	08	15	15	5*01	5*01	NT	NT	05	05	NT	NT	NT	NT
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
1647	11	34	15	15	04	08	15	15	5*PRESENT	5*PRESENT	01	01	05	05	02	02	01	05
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
2549	NT	NT	NT	NT	NT	NT	NT	NT	5*01	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	NT	NT
3625	11	34	15	15	04	08	15	15	5*01	NT	01	01	05	05	02	02	01	05
3849	11	34	15	15	04	08	15	15	5*01	5*01	NT	NT	05	05	NT	NT	NT	NT
4420	11	NT	15	15	04	08	15	15	NT	NT	01	01	05	05	NT	NT	01	05
4545	NT	NT	NT	NT	NT	NT	NT	NT	5*01	5*01	01	01	NT	NT	NT	NT	NT	NT
4582	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
4585	11	34	15	15	04	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
5451	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	NT	NT
8050	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05
9221	11	34	15	15	04	08	15	15	5*01	NT	01	NT	05	NT	02	NT	01	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	11	34	15	15	04	08	15	15	5*01	5*01	01	01	05	05	02	02	01	05

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
7	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
16	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
124	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
134	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL		NGS-GIL SSP-OLE
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
144	SBT-HA	SBT-HA	SBT-HA	SBT-HA		SSO-OL	SBT-HA	SSO-OL	SSO-OL
148	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD		NGS-GD		NGS-GD
151	SBT-LT	SBT-LT	SBT-LT	SBT-LT			SBT-LT		SBT-LT
155	SBT-INH	SBT-INH	SBT-INH	SBT-INH			SBT-INH		
158	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD
162	SBT-BS	SBT-BS	SBT-BS	SBT-BS			SBT-BS		
185	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH		NGS-INH
188	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	SBT-ACT	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
189	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
190	SBT-SC	SBT-SC	SBT-SC	SBT-SC			SBT-SC		
192	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH
193	SBT-SC SSO-LUM-OL	SBT-SC-SG SSO-LUM-OL	SBT-SC SSO-LUM-OL	SBT-SC SSO-LUM-OL			SBT-SC SSO-LUM-OL		
195	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
205	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
207	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	NGS-OMX	NGS-OMX		NGS-OMX
209	SBT-GD SSO-OL SSP-OLE	SBT-GD SSO-OL SSP-OLE	SBT-GD SSO-OL SSP-OLE	SBT-GD SSO-OL SSP-OLE	SBT-GD SSP-OLE	SBT-GD SSP-OLE	SBT-GD SSP-OLE	NGS-OMX SSP-OLE	SBT-GD SSO-OL SSP-OLE
213	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	NGS-OMX	SSP-OLE		NGS-OMX
218	NGS-INH SBT-INH SSP-INH	NGS-INH SBT-INH SSP-INH	NGS-INH SBT-INH SSP-INH	NGS-INH SBT-INH SSP-INH			NGS-INH SBT-INH SSP-INH		
226	SBT-SC	SBT-SC	SBT-SC	SBT-SC			SBT-SC		SBT-SC
238	SSO-HT	SSO-HT	SSO-HT	SSO-HT	SSP-OLE	SSP-OLE	SSP-OLE		
239	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB		rtPCR-LB
240	NGS-GD SBT-GD SSO-OL	NGS-GD SBT-GD SSO-OL	NGS-GD SBT-GD SSO-OL	NGS-GD SBT-GD SSO-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	NGS-GD-OL SBT-GD SSO-OL SSP-OL		NGS-GD SSO-OL
258	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL
262	SSP-OLE			SSP-OLE-OLE		SSP-OLE	SSP-OLE		
264	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
267	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL		
279	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	SSP-OLE	NGS-OMX SSP-OLE		NGS-OMX SSP-OLE
288							SSP-OLE		
294	NGS-OMX SBT-INH	NGS-OMX SBT-INH SSO-IMM	NGS-OMX SBT-INH	NGS-OMX SBT-INH	SBT-INH	NGS-OMX	NGS-OMX		NGS-OMX

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
298	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX		NGS-OMX	NGS-OMX		NGS-OMX
312	SBT-INH	SBT-INH	SBT-INH	SBT-INH			SBT-INH		SSO-OL
313	SBT-INV	SBT-INV	SBT-INV	SBT-INV			SBT-INV		
316				SSP-OL					
317	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL
319	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG			SBT-TBG		
321	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
323	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX			NGS-OMX		
338	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL			SBT-GIL		SBT-GIL
402	SBT-GD	SBT-GD	SBT-GD	SBT-GD			SBT-GD	SBT-GD	SBT-GD
403	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
702	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
726	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH
805	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
	SBT-OL	SBT-OL	SBT-OL	SBT-OL	NGS-GIL	NGS-GIL	SBT-OL	NGS-GIL	SBT-OL
1189				NGS-OL		NGS-OL	NGS-OL		
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	NGS-OL	SSO-OL	SSO-OL	NGS-OL	NGS-OL
1212	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX		NGS-OMX
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE
1251	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	SSO-LUM		NGS-GIL		Other-Others
	SBT-PRO	SBT-PRO	SBT-PRO	SBT-PRO	SSP-OLE	SSO-LUM	SBT-PRO	SSO-LUM	SSO-LUM
1686	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE
2063	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
2518								SSO-OL	SSO-OL
2549	SBT-OLE	SBT-OLE	SBT-OLE	SBT-OLE					
	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SBT-OLE		
2862	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE	SSO-OL		
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE	SSO-OL	SSO-OL	SSO-OL
3325	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX
3410	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
				NGS-GIL			NGS-GIL		NGS-GIL
3600				SSO-OL			SSO-OL		SSP-GV
				SSP-GV					rtPCR-LB
3614	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX SSP-OL	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
3849	SBT-CG-INH	SBT-CG-INH	SBT-INH	SBT-SC					
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK
4545	SBT-SC	SBT-SC	SBT-SC	SBT-SC			SBT-SC		
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SBT-SC
4582	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSO-OL
4585		SSO-LUM							
4613	SBT-GD	SBT-GD	SBT-GD						SBT-GD
	SSP-OLE	SSP-OLE	SSP-OLE						SSP-OLE
5451				SBT-HM-INH	SBT-INH	SBT-INH	SBT-INH		
6051	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
14982	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL

Participants and Methods Low Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
134	SSO-OL SSP-OLE	SSO-OL SSP-OLE	SSO-OL SSP-OLE	SSO-OL SSP-OLE		SSO-OL	SSO-OL SSP-OLE		SSP-OLE
138	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
139	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM
144	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
147	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB
148	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG			SSO-BAG		
151	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		SSO-OL
152	SSP-INV	SSP-INV		SSP-INV					
158	SSO-OL SSP-INN	SSO-OL SSP-INN	SSO-OL SSP-INN	SSO-OL SSP-INN		SSO-OL SSP-INN	SSO-OL SSP-INN	SSP-INN	SSP-INN
189	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
190	SSO-LC	SSO-LC	SSO-LC	SSO-LC	SSO-LC	SSO-LC	SSO-LC		
192	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
	Other-Others	Other-Others	Other-Others	Other-Others		Other-Others	Other-Others	Other-Others	Other-Others
195	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	Other-Others rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB
199				SSP-OL	SSP-OL		SSP-OL		
205	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS
207	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	SSO-IMM rtPCR-LS	rtPCR-LS	rtPCR-LS
209	SSP-BR	SSP-BR	SSP-BR	SSP-BR	SSP-BR	SSO-OL	SSO-OL SSP-BR		
213	SSP-INN	SSP-INN	SSP-INN	SSP-INN	SSP-OLE	SSP-INN	SSP-INN	SSP-INN	SSP-INN
215	SSP-BR	SSP-BR	SSP-BR	SSP-BR	SSP-BR		SSP-BR		
226	SSO-OL rtPCR-SG	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
228	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG		SSP-BAG		
238	SSO-HT	SSO-HT	SSO-HT	SSO-HT	SSP-OLE	SSP-OLE	SSP-OLE		
239	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	
240	SSP-OL	SSP-OL	SSP-OL	SSP-OL		SSP-OL	SSP-OL		
242	SSP-OLE	SSP-OL	SSP-OLE	SSP-OL-OLE	SSP-OL-OLE	SSP-OLE	SSP-OLE		
244	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG		SSO-BAG	SSO-BAG		
252	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-BAG-OL SSP-INT	SSP-INT	SSP-INT
255	SSO-OL	SSO-OL		SSO-OL					
260	SSP-BR	SSP-BR-PRO	SSP-BR	SSP-BR-PRO	SSP-BR-PRO		SSP-PRO		
262	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO	SSP-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
265	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSO-OL	SSO-OL	SSO-OL SSP-OL	SSO-OL	SSO-OL SSP-OL
266	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
267	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL		
279	SSO-OL SSP-LB-OLE	SSO-OL SSP-LB-OLE	SSO-OL SSP-LB-OLE	SSO-OL SSP-LB-OLE	SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB-OLE	SSO-OL SSP-LB	SSO-OL SSP-LB
285	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
286	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
288	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG		SSO-BAG	SSO-BAG		
289		SSO-IMM							
290	SSO-OL	SSO-OL		SSO-OL					

Participants and Methods Low Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
	Other-Others	Other-Others	Other-Others	Other-Others			Other-Others		
294	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	Other-Others		SSO-IMM		
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE		SSP-OLE
305	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		
309	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL
311	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO		SSP-OLE	SSP-PRO	
312	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL
316	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL
318	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
323	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
328	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL
329	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE		
334	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
336	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG		SSP-BAG		
338	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG			SSO-BAG	SSO-BAG	
339	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT		SSP-INT	SSP-INT	SSP-INT
402	SSO-IMM-OL	SSO-IMM-OL	SSO-IMM-OL	SSO-IMM-OL			SSO-IMM-OL		SSO-IMM-OL
615	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL
702	SSO-OL	SSO-OL	SSO-OL	SSO-OL	Other-Others		SSO-OL	SSO-OL	SSO-OL
714	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
726	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
732	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL		SSP-OL	SSP-OL	SSP-OL
	SSO-IMM						SSO-IMM		
805	SSP-OL	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM		SSP-OL		
1212	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE		
	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others		Other-Others		Other-Others
1251	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	Other-Others	SSO-LUM	Other-Others	SSO-LUM
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSO-LUM	SSP-OLE	SSO-LUM	SSP-OLE
1647	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
2063	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS
2518	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
2549									
3600	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
3625	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM
3849	SSO-INH	SSO-INH	SSO-INH	SSO-INH	SSO-INH		SSO-INH		
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK
						SSO-OL			
4545						SSP-OLE			
4582	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
4585	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		
5451	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	
8050	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
9221	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
9222	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		