

# UCLA INTERNATIONAL HLA DNA EXCHANGE—157TH SUMMARY



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DNA Sample	
#963	#966
#964	#967
#965	#968

## DNA #963 ASIAN

The consensus type for this sample from an Asian donor is A\*24:37-A\*34:01-B\*15:21-B\*15:35-C\*04:03-C\*07:02-DRB1\*04:03-DRB1\*15-DRB4\*01:03-DRB5\*01:01-DQA1\*01:02-DQA1\*03:01-DQB1\*03:02-DQB1\*05:02-DPA1\*02:02-DPB1\*01:01-DPB1\*05:01.

A consensus ( $\geq 90\%$ ) for the second DRB1 allele could not be reached seeing as 8 participants reported DRB1\*15:02:01, 15 participants reported DRB1\*15:02:01G, 6 participants reported DRB1\*15:02P, 31 participants reported DRB1\*15:02, 1 participant reported DRB1\*15:140 and 1 participant reported DRB1\*15:01, with 9 participants unable to exclude DRB1\*15:140.

The likely class I associations for this cell are B\*15:21-C\*04:03 and B\*15:35-C\*07:02, with respective frequencies of  $HF=0.00341$  and  $HF=0.00545$ , as seen exclusively Asians, according to the NMDP Bioinformatics website.

The results for DNA #963 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12.

## DNA #964 ASIAN

The consensus type for this sample from an Asian donor is A\*02:01-A\*11:01-B\*15:13-B\*38:02-C\*07:02-C\*08:01-DRB1\*15:02-DRB5\*01:01-DRB5\*01:08N-DQA1\*01:01-DQA1\*01:02-DQB1\*05:01-DQB1\*05:02-DPA1\*02:01-DPA1\*02:02-DPB1\*01:01-DPB1\*13:01.

The likely associations for this cell are A\*02:01-B\*15:13-C\*08:01 and A\*11:01-B\*38:02-C\*07:02, with respective frequencies of  $HF=0.00060$  and  $HF=0.00853$ , as seen exclusively Asians, according to the NMDP Bioinformatics website.

The results for DNA #964 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12.

## DNA #965 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A\*02:01-B\*07:02-B\*44:02-C\*07:02-C\*07:04-DRB1\*04:04-DRB1\*13:01-DRB3\*01:01-DRB4\*01:03-DQA1\*01:03-DQA1\*03:01-DQB1\*03:02-DQB1\*06:03-DPA1\*01:03-DPB1\*04:01-DPB1\*06:01.

The likely class II associations for this cell are DRB1\*04:04-DQB1\*03:02 and DRB1\*13:01-DQB1\*06:03, with respective frequencies of  $HF=0.03557$  and  $HF=0.06220$ , as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #965 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15.



DNA Sample	
#963	#966
#964	#967
#965	#968

### **DNA #966 BLACK**

The consensus type for this sample from a Black donor is A\*02:01-A\*03:01-B\*07:02-B\*45:01-C\*07:02-C\*16:01-DRB1\*11:02-DRB1\*15:01-DRB3\*02:02-DRB5\*01:01-DQA1\*01:02-DQA1\*05:05-DQB1\*03:19-DQB1\*06:02-DPA1\*01:03-DPA1\*03:01-DPB1\*04:01.

The likely class I associations in this cell are A\*02:01-B\*07:02-C\*07:02 and A\*03:01-B\*45:01-C\*16:01, with respective frequencies of HF=0.00650 and HF=0.00128, as seen in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #966 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18.

### **DNA #967 HISPANIC**

The consensus type for this sample from a Hispanic donor is A\*02:01-A\*32:01-B\*15:15-B\*52:01-C\*01:02-C\*12:02-DRB1\*04:10-DRB1\*15:02-DRB4\*01:03-DRB5\*01:02-DQA1\*01:03-DQA1\*03:01-DQB1\*03:02-DQB1\*06:01-DPA1\*01:03-DPB1\*03:01-DPB1\*04:01.

The likely class I associations in this cell are A\*02:01-B\*15:15-C\*01:02 and A\*32:01-B\*52:01-C\*12:02, with respective frequencies of HF=0.00515 and HF=0.00068, as seen exclusively in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #967 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21.

### **DNA #968 HISPANIC**

The consensus type for this sample from a Hispanic donor is A\*03:01-A\*26:01-B\*08:01-B\*44:02-C\*05:01-C\*07:01-DRB1\*03:01-DRB1\*04:02-DRB3\*01:01-DRB4\*01:03-DQA1\*03:01-DQA1\*05:01-DQB1\*02:01-DQB1\*03:02-DPA1\*01:03-DPB1\*02:01-DPB1\*04:01.

The likely class II associations in this cell are DRB1\*03:01-DQB1\*02:01 and DRB1\*04:02-DQB1\*03:02, with respective frequencies of HF=0.07328 and HF=0.01994, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #968 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 36 participants reporting their NGS results (See Tables 7, 10, 13, 16, 19, 22).

**Table 1. Summary of the 157th DNA Exchange (DNA #963)**

A				B				C			
60 labs High / 67 labs Low		% (n)		60 labs High / 66 labs Low		% (n)		60 labs High / 63 labs Low		% (n)	
A*24:02:01G	2 (1)	A*34:01:01	32(19)	B*15:21:01	33(20)	B*15:35	98(61)	C*04:03:01	32(19)	C*07:02:01	27(16)
A*24:37	91(54)	A*34:01:01G	7 (4)	B*15:21	67(40)	<i>B*15:21</i>	2 (1)	C*04:03P	3 (2)	C*07:02:01G	10(6)
<i>A*24:02</i>	7 (4)	A*34:01P	2 (1)	B*15	100(66)	B*15	100(66)	C*04:03	65(39)	C*07:02P	3 (2)
A*24	100(67)	A*34:01	60(36)					C*04	100(63)	C*07:02	60(36)
		A*34	100(66)							C*07	97(61)
										C*18	2 (1)
										C*04	2 (1)
DRB1				DRB3/4/5				DQA1			
62 labs High / 66 labs Low		% (n)		33 labs High / 43 labs Low		% (n)		40 labs High / 52 labs Low		% (n)	
DRB1*04:03:01	32(20)	DRB1*15:02:01	13(8)	DRB4*01:03:01	37(12)	DRB5*01:01:01	36(12)	DQA1*01:02:01	32(13)	DQA1*03:01:01	35(14)
DRB1*04:03P	2 (1)	DRB1*15:02:01G	24(15)	DRB4*01:01:01G	3 (1)	DRB5*01:01:01G	3 (1)	DQA1*01:02:01G	7 (3)	DQA1*03:01:01G	10(4)
DRB1*04:03	66(41)	DRB1*15:02P	10(6)	DRB4*01:01P	3 (1)	DRB5*01:01P	3 (1)	DQA1*01:02	60(24)	DQA1*03:01	55(22)
DRB1*04	100(66)	DRB1*15:02	50(31)	DRB4*01:03	50(16)	DRB5*01:01	57(19)	DQA1*01	100(52)	DQA1*03	98(51)
		DRB1*15:140	2 (1)	<i>DRB4*01:01</i>	6 (2)	DRB5*01	76(32)			<i>DQA1*01</i>	2 (1)
		DRB1*15:01	2 (1)	DRB4*01	77(33)	DRB5*PRESENT	24(10)				
		DRB1*15	100(66)	DRB4*PRESENT	23(10)						
DQB1				DPA1				DPB1			
60 labs High / 63 labs Low		% (n)		30 labs High / 29 labs Low		% (n)		51 labs High / 33 labs Low		% (n)	
DQB1*03:02:01	18(11)	DQB1*05:02:01:01	3 (2)	DPA1*02:02:02	43(13)			DPB1*01:01:01	31(16)	DPB1*05:01:01	31(16)
DQB1*03:02:01G	12(7)	DQB1*05:02:01	24(14)	DPA1*02:02	57(17)			DPB1*01:01:01G	8 (4)	DPB1*05:01:01G	8 (4)
DQB1*03:02P	2 (1)	DQB1*05:02:01G	8 (5)	DPA1*02	100(29)			DPB1*01:01P	2 (1)	DPB1*05:01P	2 (1)
DQB1*03:02	68(41)	DQB1*05:02P	2 (1)					DPB1*01:01	59(30)	DPB1*05:01	59(30)
DQB1*03	100(63)	DQB1*05:02	63(37)					DPB1*01	100(33)	DPB*05	100(33)
		DQB1*05	100(63)								

Discrepant results from consensus are italicized in Tables 1-6

**Table 2. Summary of the 157th DNA Exchange (DNA #964)**

A				B				C			
57 labs High / 68 labs Low		% (n)		59 labs High / 68 labs Low		% (n)		57 labs High / 65 labs Low		% (n)	
A*02:01:01:01	3 (2)	A*11:01:01:01	2 (1)	B*15:13:01	36(21)	B*38:02:02	37(22)	C*07:02:01	26(15)	C*08:01:01:01	10(6)
A*02:01:01	23(13)	A*11:01:01	30(17)	B*15:13	63(37)	B*38:02	63(37)	C*07:02:01G	12(7)	C*08:01:01	21(12)
A*02:01:01G	12(7)	A*11:01:01G	9 (5)	B*15:33	2 (1)	B*38	100(68)	C*07:02P	3 (2)	C*08:01:01G	10(6)
A*02:01P	3 (2)	A*11:01P	3 (2)	B*15	100(68)			C*07:02	58(33)	C*08:01P	3 (2)
A*02:01	58(33)	A*11:01	56(32)					C*07	100(65)	C*08:01	54(31)
A*02	100(68)	A*11	100(68)							C*08	100(65)

  

DRB1				DRB3/4/5				DQA1			
59 labs High / 68 labs Low		% (n)		35 labs High / 43 labs Low		% (n)		39 labs High / 55 labs Low		% (n)	
DRB1*15:02:01	14(8)	DRB1*15:02:01	10(6)	DRB5*01:01:01	35(11)	DRB5*01:02:01G	6 (2)	DQA1*01:01:01	54(12)	DQA1*01:02:01	32(12)
DRB1*15:02:01G	24(14)	DRB1*15:02:01G	24(14)	DRB5*01:01:01G	3 (1)	DRB5*01:08N	89(31)	DQA1*01:01:01G	18(4)	DQA1*01:02:01G	8 (3)
DRB1*15:02P	14(8)	DRB1*15:02P	14(8)	DRB5*01:01P	3(1)	DRB5*01:01	3 (1)	DQA1*01:01P	3 (1)	DQA1*01:02	60(23)
DRB1*15:02	46(27)	DRB1*15:02	49(29)	DRB5*01:01	58(18)	DRB5*01:02	3 (1)	DQA1*01:01	56(22)	DQA1*01	100(54)
<i>DRB1*15:01</i>	3 (2)	DRB1*15:140	3 (2)	DRB5*01	77(33)	DRB5*01	21(9)	DQA1*01	100(55)		
DRB1*15	100(68)	DRB1*15	100(66)	DRB5*PRESENT	23(10)	DRB5*01N	51(22)				
						DRB5*PRESENT	23(10)				
						DRB5*NULL	5 (2)				

  

DQB1				DPA1				DPB1			
58 labs High / 65 labs Low		% (n)		30 labs High / 30 labs Low		% (n)		49 labs High/ 34 labs Low		% (n)	
DQB1*05:01:01:01	2 (1)	DQB1*05:02:01:01	2 (1)	DPA1*02:01:01:01	7 (2)	DPA1*02:02:02	41(12)	DPB1*01:01:01	29(14)	DPB1*13:01:01	14(7)
DQB1*05:01:24	14(8)	DQB1*05:02:01	25(14)	DPA1*02:01:01	37(11)	DPA1*02:02	55(16)	DPB1*01:01:01G	14(7)	DPB1*13:01:01G	39(19)
DQB1*05:01:01	2 (1)	DQB1*05:02:01G	7 (4)	DPA1*02:01:01G	7 (2)	DPA1*02:01	3 (1)	DPB1*01:01P	2 (1)	DPB1*13:01P	8 (4)
DQB1*05:01:01G	7 (4)	DQB1*05:02P	2 (1)	DPA1*02:01	50(15)	DPA1*02	100(30)	DPB1*01:01	53(26)	DBP1*13:01	37(18)
DQB1*05:01P	2 (1)	DQB1*05:02	65(37)	DPA1*02	100(30)			<i>DPB1*26:01</i>	2 (1)	<i>DBP1*04:01</i>	2 (1)
DQB1*05:01	74(43)	DQB1*05	100(65)					DPB1*01	100(34)	DBP1*13	100(34)
DQB1*05	100(65)										

Discrepant results from consensus are italicized in Tables 1-6

**Table 3. Summary of the 157th DNA Exchange (DNA #965)**

A				B				C			
52 labs High / 53 labs Low		% (n)		51 labs High / 53 labs Low		% (n)		51 labs High / 51 labs Low		% (n)	
A*02:01:01:01	4 (2)			B*07:02:01:01	2 (1)	B*44:02:01:01	3 (1)	C*07:02:01	27(14)	C*07:04:01	32(16)
A*02:01:01	23(12)			B*07:02:01	29(15)	B*44:02:01	50(15)	C*07:02:01G	12(6)	C*07:04:01G	10(5)
A*02:01:01G	11(6)			B*07:02:01G	10(5)	B*44:02:01G	8 (4)	C*07:02P	2 (1)	C*07:04P	2 (1)
A*02:01P	4 (2)			B*07:02P	2 (1)	B*44:02P	2 (1)	C*07:02	57(29)	C*07:04	56(28)
A*02:01	58(30)			B*07:02	57(29)	B*44:02	59(30)	C*07:01	2 (1)	C*07	100(50)
A*02	100(53)			B*07	100(53)	B*44	100(52)	C*07	100(51)		

  

DRB1				DRB3/4/5				DQA1			
61 labs High / 65 labs Low		% (n)		34 labs High / 40 labs Low		% (n)		45 labs High / 51 labs Low		% (n)	
DRB1*04:04:01	30(18)	DRB1*13:01:01:01	1 (1)	DRB3*01:01:02	35(12)	DRB4*01:03:01	39(12)	DQA1*01:03:01	29(13)	DQA1*03:01:01	31(14)
DRB1*04:04P	3 (2)	DRB1*13:01:01	29(18)	DRB3*01:01:02G	3 (1)	DRB4*01:01:01G	3 (1)	DQA1*01:03:01G	2 (1)	DQA1*03:01:01G	9 (4)
DRB1*04:04	67(40)	DRB1*13:01:01G	3 (2)	DRB3*01:01P	6 (2)	DRB4*01:01P	3 (1)	DQA1*01:03	68(30)	DQA1*03:01	60(27)
DRB1*04	100(65)	DRB1*13:01P	3 (2)	DRB3*01:01	56(19)	DRB4*01:03	48(15)	DQA1*01	100(51)	DQA1*03	100(51)
		DRB1*13:01	62(38)	DRB3*01	74(29)	<i>DRB4*01:01</i>	6 (2)				
		DRB1*13	99(64)	DRB3*PRESENT	26(10)	DRB4*01	75(30)				
		<i>DRB1*14</i>	1 (1)			DRB4*PRESENT	25(10)				

  

DQB1				DPA1				DPB1			
59 labs High / 62 labs Low		% (n)		31 labs High / 28 labs Low		% (n)		51 labs High / 31 labs Low		% (n)	
DQB1*03:02:01	18(11)	DQB1*06:03:01:01	3 (2)	DPA1*01:03:01:03	3 (1)			DPB1*04:01:01	16(8)	DPB1*06:01:01	10(5)
DQB1*03:02:01G	12(7)	DQB1*06:03:01	19(11)	DPA1*01:03:01	39(12)			DPB1*04:01:01G	29(15)	DPB1*06:01:01G	27(14)
DQB1*03:02P	3 (2)	DQB1*06:03:01G	5 (3)	DPA1*01:03:01G	6 (2)			DPB1*04:01P	4 (2)	DBP1*06:01	63(32)
DQB1*03:02	66(39)	DQB1*06:03P	3 (2)	DPA1*01:03	52(16)			DPB1*04:01	51(26)	DBP1*06	97(30)
DQB1*03	100(62)	DQB1*06:03	69(41)	DPA1*01	100(28)			DPB1*04	100(31)	<i>DBP1*03</i>	3 (1)
		DQB1*06	100(62)								

Discrepant results from consensus are italicized in Tables 1-6

**Table 4. Summary of the 157th DNA Exchange (DNA #966)**

A				B				C			
53 labs High / 66 labs Low		% (n)		57 labs High / 66 labs Low		% (n)		54 labs High / 63 labs Low		% (n)	
A*02:01:01:01	4 (2)	A*03:01:01:01	9 (5)	B*07:02:01:01	2 (1)	B*45:01:01	30(17)	C*07:02:01	28(15)	C*16:01:01:01	11(6)
A*02:01:01	24(13)	A*03:01:01	21(11)	B*07:02:01	30(16)	B*45:01:01G	7 (4)	C*07:02:01G	11(6)	C*16:01:01	23(12)
A*02:01:01G	11(6)	A*03:01:01G	9 (5)	B*07:02:01G	7 (4)	B*45:01P	3 (2)	C*07:02P	4 (2)	C*16:01:01G	7 (4)
A*02:01P	6 (3)	A*03:01P	4 (2)	B*07:02P	4 (2)	B*45:01	60(34)	C*07:02	57(31)	C*16:01P	4 (2)
A*02:01	55(29)	A*03:01	57(30)	B*07:02	57(31)	B*45	100(66)	C*07	100(63)	C*16:01	55(29)
A*02	100(66)	A*03	100(66)	B*07	100(66)					C*16	100(63)

DRB1				DRB3/4/5				DQA1			
57 labs High / 66 labs Low		% (n)		32 labs High / 40 labs Low		% (n)		40 labs High / 50 labs Low		% (n)	
DRB1*11:02:01	32(18)	DRB1*15:01:01:01	2 (1)	DRB3*02:02:01:01	3 (1)	DRB5*01:01:01	34(11)	DQA1*01:02:01	30(12)	DQA1*05:05:01	33(13)
DRB1*11:02P	3 (2)	DRB1*15:01:01	32(17)	DRB3*02:02:01	34(11)	DRB5*01:01:01G	6 (2)	DQA1*01:02:01G	7 (3)	DQA1*05:01:01G	5 (2)
DRB1*11:02	65(37)	DRB1*15:01:01G	4 (2)	DRB3*02:02:01G	3 (1)	DRB5*01:01P	3 (1)	DQA1*01:02P	2 (1)	DQA1*05:01P	3 (1)
DRB1*11	100(66)	DRB1*15:01P	4 (2)	DRB3*02:02P	3 (1)	DRB5*01:01	56(18)	DQA1*01:02	60(24)	DQA1*05:05	59(23)
		DRB1*15:01	58(31)	DRB3*02:02	56(18)	DRB5*01	73(29)	DQA1*01	98(49)	DQA1*01	100(50)
		DRB1*15	100(66)	DRB3*02	73(29)	DRB5*PRESENT	27(11)	<i>DQA1*03</i>	2 (1)		
				DRB3*PRESENT	27(11)						

DQB1				DPA1				DPB1			
53 labs High / 63 labs Low		% (n)		32 labs High / 30 labs Low		% (n)		46 labs High / 30 labs Low		% (n)	
DQB1*03:19:01	28(15)	DQB1*06:02:01:01	4 (2)	DPA1*01:03:01:02	3 (1)	DPA1*03:01:01	41(13)	DPB1*04:01:01	30(14)	DPB1*105:01:01	15(7)
DQB1*03:01:01G	2 (1)	DQB1*06:02:01	23(12)	DPA1*01:03:01	34(11)	DPA1*03:01	59(19)	DPB1*04:01:01G	11(5)	DPB1*04:02:01G	30(14)
DQB1*03:01P	2 (1)	DQB1*06:02:01G	6 (3)	DPA1*01:03:01G	6 (2)	DPA1*03	100(30)	DPB1*04:01P	4 (2)	DPB1*04:02P	11(5)
DQB1*03:19	64(34)	DQB1*06:02P	4 (2)	DPA1*01:03	56(18)			DPB1*04:01	54(25)	DPB1*105:01	41(19)
<i>DQB1*03:01</i>	4 (2)	DQB1*06:02	63(33)	DPA1*01	100(30)			DPB1*04(DP401)	100(30)	DPB1*04:02	2 (1)
DQB1*03	100(63)	DQB1*06	97(61)							DPB1*105	67(20)
		<i>DQB1*03</i>	3 (2)							DPB1*04(DP402)	33(10)

Discrepant results from consensus are italicized in Tables 1-6

**Table 5. Summary of the 157th DNA Exchange (DNA #967)**

A				B				C			
54 labs High / 62 labs Low		% (n)		56 labs High / 62 labs Low		% (n)		53 labs High / 59 labs Low		% (n)	
A*02:01:01:01	6 (3)	A*32:01:01:01	6 (3)	B*15:15	100(56)	B*52:01:01:02	11(6)	C*01:02:01:01	4 (2)	C*12:02:02	38(20)
A*02:01:01	26(14)	A*32:01:01	28(15)	B*15	100(62)	B*52:01:01:01	2 (1)	C*01:02:01	32(17)	C*12:02:01G	7 (4)
A*02:01:01G	11(6)	A*32:01:01G	7 (4)			B*52:01:01	26(14)	C*01:02:01G	7 (4)	C*12:02P	4 (2)
A*02:01P	4 (2)	A*32:01P	4 (2)			B*52:01:01G	9 (5)	C*01:02P	4 (2)	C*12:02	51(27)
A*02:01	53(28)	A*32:01	56(30)			B*52:01P	2 (1)	C*01:02	53(28)	C*12	100(59)
A*02	100(62)	A*32	100(62)			B*52:01	50(27)	C*01	100(59)		
						B*52	100(62)				

DRB1				DRB3/4/5				DQA1			
56 labs High / 62 labs Low		% (n)		32 labs High / 39 labs Low				39 labs High / 47 labs Low		% (n)	
DRB1*04:10:01	25(14)	DRB1*15:02:01	22(12)	DRB4*01:03:02	39(12)	DRB5*01:02:01G	6 (2)	DQA1*01:03:01:01	8 (3)	DQA1*03:01:01	38(15)
DRB1*04:10	75(42)	DRB1*15:02:01G	16(9)	DRB4*01:01:01G	6 (2)	DRB5*01:02	94(30)	DQA1*01:03:01	31(12)	DQA1*03:01:01G	10(4)
DRB1*04	100(62)	DRB1*15:02P	13(7)	DRB4*01:01P	3 (1)	DRB5*01	76(29)	DQA1*01:03:01G	3 (1)	DQA1*03:01P	3 (1)
		DRB1*15:02	49(27)	DRB4*01:03	45(14)	DRB5*PRESENT	24(9)	DQA1*01:03P	3 (1)	DQA1*03:01	49(19)
		DRB1*15	98(61)	DRB4*01:01	6 (2)			DQA1*01:03	56(22)	DQA1*03	100(47)
		<i>DRB1*03</i>	2 (1)	DRB4*01	77(30)			DQA1*01	100(47)		
				DRB4*PRESENT	23(9)						

DQB1				DPA1				DPB1			
53 labs High / 59 labs Low		% (n)		31 labs High / 30 labs Low		% (n)		57 labs High / 39 labs Low		% (n)	
DQB1*03:02:01	19(10)	DQB1*06:01:01	19(10)	DPA1*01:03:01	42(13)			DPB1*03:01:01	26(12)	DPB1*04:01:01	26(12)
DQB1*03:02:01G	11(6)	DQB1*06:01:01G	13(7)	DPA1*01:03:01G	6 (2)			DPB1*03:01:01G	28(13)	DPB1*04:01:01G	26(12)
DQB1*03:02P	6 (3)	DQB1*06:01P	4 (2)	DPA1*01:03	52(16)			DPB1*03:01P	6 (3)	DPB1*04:01P	6 (3)
DQB1*03:02	64(34)	DQB1*06:01	64(34)	DPA1*01	100(30)			DPB1*03:01	39(18)	DPB1*04:01	41(19)
DQB1*03	100(59)	DQB1*06	100(59)					DPB1*03	97(29)	DPB1*04(DP401)	100(30)
								<i>DPB1*04(DP401)</i>	3 (1)		

Discrepant results from consensus are italicized in Tables 1-6

**Table 6. Summary of the 157th DNA Exchange (DNA #968)**

A				B				C			
53 labs High / 62 labs Low		% (n)		52 labs High / 62 labs Low		% (n)		53 labs High / 59 labs Low		% (n)	
A*03:01:01:01	13(7)	A*26:01:01:01	15(8)	B*08:01:01:01	15(8)	B*44:02:01:01	4 (2)	C*05:01:01:02	13(7)	C*07:01:01:01	2 (1)
A*03:01:01	21(11)	A*26:01:01	23(12)	B*08:01:01	23(12)	B*44:02:01	31(16)	C*05:01:01	23(12)	C*07:01:01	35(18)
A*03:01:01G	11(6)	A*26:01:01G	9 (5)	B*08:01:01G	10(5)	B*44:02:01G	8 (4)	C*05:01:01G	9 (5)	C*07:01:01G	14(7)
A*03:01P	4 (2)	A*26:01P	4 (2)	B*08:01P	4 (2)	B*44:02P	4 (2)	C*05:01P	4 (2)	C*07:01P	4 (2)
A*03:01	51(27)	A*26:01	49(26)	B*08:01	48(25)	B*44:02	54(28)	C*05:01	51(27)	C*07:01	45(23)
A*03	100(61)	A*26	100(62)	B*08	100(62)	B*44	100(62)	C*05	100(59)	C*07	100(59)

DRB1				DRB3/4/5				DQA1			
57 labs High / 62 labs Low		% (n)		32 labs High / 38 labs Low		% (n)		41 labs High / 47 labs Low		% (n)	
DRB1*03:01:01:01	4 (2)	DRB1*04:02:01	35(20)	DRB3*01:01:02	41(13)	DRB4*01:03:01	40(12)	DQA1*03:01:01	37(15)	DQA1*05:01:01:02	10(4)
DRB1*03:01:01	21(11)	DRB1*04:02P	2 (1)	DRB3*01:01:01G	6 (2)	DRB4*01:01:01G	7 (2)	DQA1*03:01:01G	5 (2)	DQA1*05:01:01	27(11)
DRB1*03:01:01G	17(9)	DRB1*04:02	63(36)	DRB3*01:01P	3 (1)	DRB4*01:01P	3 (1)	DQA1*03:01P	2 (1)	DQA1*05:01:01G	2 (1)
DRB1*03:01P	7 (4)	DRB1*04	100(62)	DRB3*01:01	50(16)	DRB4*01:03	43(13)	DQA1*03:01	55(22)	DQA1*05:01P	2 (1)
DRB1*03:01	51(27)			DRB3*01	76(29)	DRB4*01:01	7 (2)	DQA1*03	100(47)	DQA1*05:01	58(24)
DRB1*03	100(62)			DRB3*PRESENT	24(9)	DRB4*01	76(29)			DQA1*05	100(47)
						DRB4*PRESENT	24(9)				

DQB1				DPA1				DPB1			
53 labs High / 59 labs Low		% (n)		30 labs High / 29 labs Low		% (n)		46 labs High / 30 labs Low		% (n)	
DQB1*02:01:01	31(16)	DQB1*03:02:01	19(10)	DPA1*01:03:01	43(13)			DPB1*02:01:02	33(15)	DPB1*04:01:01:02	2 (1)
<i>DQB1*02:02:01</i>	2 (1)	DQB1*03:02:01G	11(6)	DPA1*01:03:01G	7 (2)			DPB1*02:01:02G	11(5)	DPB1*04:01:01	33(15)
DQB1*02:01:01G	13(7)	DQB1*03:02P	4 (2)	DPA1*01:03	50(15)			DPB1*02:01P	4 (2)	DPB1*04:01:01G	13(6)
DQB1*02:01P	2 (1)	DQB1*03:02	66(25)	DPA1*01	100(29)			DPB1*02:01	52(24)	DPB1*04:01P	4 (2)
DQB1*02:01	52(27)	DQB1*03	100(59)					DPB1*02(DP201)	100(30)	DPB1*04:01	47(21)
DQB1*02	100(59)									DPB1*04(DP401)	100(29)

Discrepant results from consensus are italicized in Tables 1-6



**Table 7. Individual laboratory results for DNA # 963 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01G	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01G	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
16	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01G	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
124	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01G	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01G	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
138	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	NT	NT	01:01	05:01
185	24:37	34:01:01G	15:21:01	15:35	04:03:01	07:02:01G	04:03P	15:02P	4*01:01P	5*01:01P	01:02:01G	03:01:01G	03:02P	05:02P	NT	NT	01:01:01G	05:01:01G
188	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02	04:03	15:02P	NT	NT	01:02	03:01:01	03:02	05:02:01:01	02:02	02:02	01:01	05:01
189	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
192	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01G	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02	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	24:37	34:01:01	15:21	15:35	04:03:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
213	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02P	4*01:03	5*01:01	01:02	03:01	03:02	05:02	NT	NT	01:01	05:01
218	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	01:01	05:01
227	24:37	34:01	15:21	15:35	04:03	07:02	04:03:01	15:02	4*01:03	5*01:01	01:02	03:01	03:02:01	05:02:01	02:02	02:02	01:01	05:01
234	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02:01G	NT	NT	NT	NT	03:02	05:02	NT	NT	01:01	05:01
258	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01G	NT	NT	NT	NT	03:02:01G	05:02:01G	NT	NT	01:01:01	05:01:01
264	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
282	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
294	24:37	34:01P	15:21	15:35	04:03P	07:02P	04:03	15:02P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	01:02	03:01	03:02	05:02	NT	NT	01:01	05:01
403	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01G	NT	NT	NT	NT	03:02	05:02:01	NT	NT	01:01:01	05:01:01
519	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01G	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
615	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
732	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
805	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:140	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
1189	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
1212	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
2063	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
2862	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
3325	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
4551	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02:01G	4*01:03	5*01:01	01:02	03:01	03:02	05:02	NT	NT	01:01	05:01
4582	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02:01G	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
4709	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02P	4*01:03	5*01:01	01:02	03:01	03:02	05:02	NT	NT	01:01	05:01
6051	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
14982	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01G	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01G	05:02:01G	02:02:02	02:02:02	01:01:01	05:01:01

Final Consensus based on High Resolution	24:37	34:01	15:21	15:35	04:03	07:02	04:03	NG	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
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**Table 8. Individual laboratory results for DNA # 963 High 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
144	24:37	34:01:01	15:21:01	15:35	04:03P	07:02P	04:03:01	15:02P	NT	NT	01:02:01G	03:01:01G	03:02	05:02	02:02	02:02	01:01:01G	05:01:01G
151	24:37	34:01	15:21	15:35	04:03	07:02	04:03:01	15:02:01G	NT	NT	NT	NT	03:02:01G	05:02:01G	NT	NT	01:01	05:01
155	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
162	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
173	24:02	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
174	24:02:01G	34:01	15:21	15:35	04:03	07:02:01G	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
176	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
190	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01G	04:03:01	15:02:01	NT	NT	NT	NT	03:02:01	05:02:01:01	NT	NT	NT	NT
193	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
239	NT	34:01	15:21	NT	04:03	07:02	04:03	15:02	4*01:03	NT	01:02	NT	03:02	NT	NT	NT	01:01	05:01
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	04:03	15:02	NT	NT	01:02	03:01	03:02	05:02	NT	NT	NT	NT
267	24:02	34:01	15:21	15:35	04:03	07:02	04:03	15:01	4*01:01	5*01:01	01:02	03:01	03:02	05:02	NT	NT	NT	NT
278	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
288	NT	NT	NT	NT	NT	NT	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
292	24:02	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	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	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	01:01	05:01
316	NT	NT	NT	NT	NT	NT	04:03	15:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	24:02	34:01	15:21	15:35	04:03	07:02	04:03	15:02	4*01:01	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
402	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	01:01	05:01
702	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	04:03:01	15:02:01	4*01:03	5*01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	05:01:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	4*01:03	5*01:01	NT	NT	NT	NT	NT	NT	01:01	05:01
1498	24:37	34:01:01G	15:21	15:35	04:03	07:02:01G	04:03:01	15:02:01G	NT	NT	NT	NT	03:02:01G	05:02:01G	NT	NT	01:01:01	05:01:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	02:02	01:01	05:01
2549	24:37	34:01	15:21	15:35	04:03	07:02:01G	04:03	15:02:01G	NT	NT	01:02:01G	03:01:01G	03:02	05:02	02:02	02:02	01:01:01G	05:01:01G
3410	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
3438	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
3582	24:37	34:01:01G	15:21	15:35	04:03	07:02:01G	04:03	15:02:01G	4*01:01:01G	5*01:01:01G	NT	NT	03:02:01G	05:02:01G	NT	NT	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
3614	24:37	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	5*01:01	01:02	03:01:01G	03:02	05:02	NT	NT	01:01	05:01
3625	24:37	NT	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	01:02	03:01	03:02	05:02	NT	NT	01:01	05:01
3849	24:37	34:01:01G	15:21:01	15:35	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	NT	34:01	15:21	15:35	04:03	07:02	04:03	15:02	NT	NT	NT	03:01	03:02	05:02	NT	NT	01:01	05:01
4585	NT	NT	NT	15:35	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	24:37	34:01:01	15:21:01	15:35	04:03:01	07:02:01	NT	NT	NT	NT	NT	NT	NT	NT	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	24:37	34:01	15:21	15:35	04:03	07:02	04:03	NG	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01

**Table 9. Individual laboratory results for DNA # 963 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
138	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
139	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	01	05
142	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	NT	NT	NT	NT
144	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	02	02	01	05
147	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	NT	NT	01	05
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	24	34	15	15	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
189	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
190	24	34	15	15	04	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
192	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
195	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
199	NT	NT	NT	NT	NT	NT	04	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
205	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
213	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	NT	NT	01	05
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
228	24	34	15	15	04	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
234	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	NT	NT	01	05
239	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	24	34	15	15	04	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
255	24	34	15	15	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	24	34	15	15	04	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
262	24	34	15	15	04	07	04	15	4*PRESENT	5*PRESENT	01	03	03	05	NT	NT	NT	NT
265	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
266	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	02	02	01	05
267	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	NT	NT	NT	NT
268	24	34	15	15	04	07	04	15	NT	NT	01	01	03	05	NT	NT	NT	NT
278	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
280	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
282	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
285	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
286	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
288	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
290	24	34	15	15	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
293	24	34	15	15	04	18	04	15	4*PRESENT	5*PRESENT	01	03	03	05	NT	NT	NT	NT
294	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	NT	NT	NT	NT
304	24	34	15	15	04	04	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
305	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
309	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	02	02	01	05
310	24	34	15	15	NT	NT	04	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
316	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	02	02	01	05
318	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	02	02	01	05
324	NT	NT	NT	NT	04	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
328	24	34	15	15	04	07	04	15	NP	NP	01	03	03	05	NT	NT	NT	NT
402	24	34	15	15	04	07	04	15	NT	NT	NT	NT	03	05	NT	NT	01	05
519	24	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 9. Individual laboratory results for DNA # 963 Low Resolution**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
702	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
714	24	34	15	15	04	07	04	15	NT	NT	NT	NT	03	05	NT	NT	NT	NT
726	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
805	24	34	15	15	04	07	04	15	4*01	5*01	NT	NT	03	05	NT	NT	NT	NT
1212	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
1251	24	34	15	15	04	07	04	15	4*01	5*01	NT	NT	03	05	NT	NT	01	05
1647	24	34	15	15	04	07	04	15	4*PRESENT	5*PRESENT	01	03	03	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	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
2549	NT	NT	NT	NT	NT	NT	NT	NT	NT	4*01	5*01	NT	NT	NT	NT	NT	NT	NT
3438	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	NT	NT
3600	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	4*01	NT	NT	NT	NT	02	02	NT	NT
3625	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
3849	24	34	15	15	04	07	04	15	4*01	5*01	NT	NT	03	05	NT	NT	NT	NT
4281	24	34	15	15	04	07	04	15	4*PRESENT	5*PRESENT	01	03	03	05	02	02	01	05
4420	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	01	05
4545	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
4551	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	NT	NT	01	05
4582	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
4585	24	34	15	15	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	24	34	15	15	04	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
9221	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	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	24	34	15	15	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05

**Table 10. Individual laboratory results for DNA # 964 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
7	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01G
16	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01G
124	02:01:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01G
138	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NEW	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	11:01:01G	15:13:01	38:02:02	07:02:01G	08:01:01G	15:02P	15:02P	5*01:01P	5*01:02:01G	01:01:01G	01:02:01G	05:01P	05:02P	NT	NT	01:01:01G	13:01:01G
188	02:01	11:01	15:13:01	38:02:02	07:02	08:01:01:01	15:02P	15:02P	NT	NT	01:01	01:02	05:01	05:02	02:01:01:01	02:02	01:01	13:01P
189	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01:01G
192	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01:01	15:02:01	15:02:01G	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01	05:02:01	02:01:01:01	02:02:02	01:01:01	13:01:01G
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	5*01:08N	NT	NT	NT	NT	NT	NT	NT	NT
205	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01:24	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01
213	02:01	11:01	15:13	38:02	07:02	08:01	15:02P	15:02P	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	NT	NT	01:01	13:01P
218	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	01:01	13:01
227	02:01	11:01:01	15:13	38:02:02	07:02	08:01:01	15:02	15:02	NEW	5*01:02	01:01	01:02	05:01	05:02:01	02:01	02:02	01:01	13:01
234	02:01	11:01	15:13	38:02	07:02	08:01	15:02:01G	15:02:01G	NT	NT	NT	NT	05:01	05:02	NT	NT	01:01	13:01
258	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01:01	15:02:01G	15:02:01G	NT	NT	NT	NT	05:01:01G	05:02:01G	NT	NT	01:01:01	13:01:01G
264	02:01:01G	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01:24	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01
282	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01:24	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01
294	02:01P	11:01P	15:13	38:02	07:02P	08:01P	15:02P	15:02P	NT	NT	01:01P	NT	NT	NT	NT	NT	NT	NT
298	02:01	11:01	15:13	38:02	07:02	08:01	15:02P	15:02P	NT	NT	01:01	01:02	05:01	05:02	NT	NT	01:01	13:01
403	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01:01	15:02:01G	15:02:01G	NT	NT	NT	NT	05:01:24	05:02:01	NT	NT	01:01:01	13:01:01G
519	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01:24	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01G
615	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
732	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
805	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:140	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01:01G
1189	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
1212	02:01	11:01	15:13	38:02	07:02	08:01	15:02P	15:02P	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01	15:140	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01:24	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01
3325	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01:01G
4551	02:01	11:01	15:13	38:02	07:02	08:01	15:02:01G	NT	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	NT	NT	01:01:01G	13:01:01G
4582	02:01	11:01	15:13	38:02	07:02	08:01	15:02:01G	15:02:01G	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01:01G
4709	02:01	11:01	15:13	38:02	07:02	08:01	15:02P	15:02P	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	NT	NT	01:01	13:01P
6051	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01	15:02:01	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01:24	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01
14982	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01G	15:02:01G	5*01:01:01	5*01:08N	01:01:01	01:02:01	05:01:24	05:02:01	02:01:01	02:02:02	01:01:01G	13:01:01G

Final Consensus based on High Resolution	02:01	11:01	15:13	38:02	07:02	08:01	15:02	NG	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
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**Table 11. Individual laboratory results for DNA # 964 High 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
144	02:01P	11:01P	15:13:01	38:02:02	07:02P	08:01P	15:02P	15:02P	NT	NT	01:01:01G	01:02:01G	05:01	05:02	02:01:01G	02:02	01:01:01G	13:01:01G
151	02:01:01G	11:01:01G	15:13	38:02	07:02:01G	08:01:01G	15:02:01G	15:02:01G	NT	NT	NT	NT	05:01:01G	05:02:01G	NT	NT	01:01:01G	13:01:01G
155	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
162	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
173	02:01	11:01:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
174	02:01:01G	11:01	15:13	38:02	07:02:01G	08:01:01G	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
176	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
190	02:01:01:01	11:01:01:01	15:13:01	38:02:02	07:02:01G	08:01:01:01	15:02:01	15:02:01	NT	NT	NT	NT	05:01:01:01	05:02:01:01	NT	NT	NT	NT
193	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
239	NT	NT	15:13	38:02	NT	NT	NT	15:02	NT	5*01:08N	NT	01:02	05:01	NT	NT	NT	01:01	13:01
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	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
267	02:01	11:01	15:13	38:02	07:02	08:01	15:01	15:02	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	NT	NT	NT	NT
278	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
288	NT	NT	NT	NT	NT	NT	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
292	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	01:02	NT	NT	NT	NT	NT	NT
312	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	5*01:08N	NT	NT	05:01	05:02	NT	NT	01:01	13:01
316	NT	NT	NT	NT	NT	NT	15:02	15:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	11:01	15:33	38:02	07:02	08:01	15:01	15:02	5*01:01	5*01:01	01:01	01:02	05:01	05:02	02:01	02:01	26:01	04:01
402	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	01:01	13:01
702	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	15:02:01	15:02:01	5*01:01	5*01:08N	01:01:01	01:02:01	05:01:01	05:02:01	02:01:01	02:02:02	01:01:01	13:01:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	13:01
1498	02:01:01G	11:01:01G	15:13	38:02	07:02:01G	08:01:01G	15:02:01G	15:02:01G	NT	NT	NT	NT	05:01:01G	05:02:01G	NT	NT	01:01:01	13:01:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	5*01:01	5*01:08N	NT	NT	NT	NT	02:01	02:02	01:01	13:01
2549	02:01:01G	11:01:01G	15:13	38:02	07:02:01G	08:01:01G	15:02:01G	15:02:01G	NT	NT	01:01:01G	01:02:01G	05:01	05:02	02:01:01G	02:02	01:01:01G	13:01:01G
3410	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
3438	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	NT	NT	05:01	05:02	NT	NT	NT	NT
3582	02:01:01G	11:01:01G	15:13:01	38:02:02	07:02:01G	08:01:01G	15:02:01G	15:02:01G	5*01:01:01G	5*01:02:01G	NT	NT	05:01:01G	05:02:01G	NT	NT	01:01:01G	13:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	13:01P
3614	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	5*01:01	5*01:08N	01:01:01G	01:02	05:01	05:02	02:01	NT	01:01	13:01:01G
3625	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	01:01	01:02	05:01	05:02	NT	NT	01:01	13:01
3849	NT	NT	15:13:01	38:02:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	02:01	11:01	15:13	38:02	07:02	08:01	15:02	15:02	NT	NT	01:01	NT	05:01	05:02	NT	NT	01:01	13:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	02:01:01	11:01:01	15:13:01	38:02:02	07:02:01	08:01:01	NT	NT	NT	NT	NT	NT	NT	NT	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	11:01	15:13	38:02	07:02	08:01	15:02	NG	5*01:01	5*01:08N	01:01	01:02	05:01	05:02	02:01	02:02	01:01	13:01
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**Table 12. Individual laboratory results for DNA # 964 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
138	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
139	02	11	15	38	07	08	15	NT	NT	NT	01	01	05	05	NT	NT	01	13
142	02	11	15	38	07	08	15	15	5*01	5*01	01	01	05	05	NT	NT	NT	NT
144	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	02	02	01	13
147	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	NT	NT	01	13
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	11	15	38	NT	NT	15	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
189	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
190	02	11	15	38	07	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
192	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
195	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
199	NT	NT	NT	NT	NT	NT	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
205	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
213	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	NT	NT	01	13
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	11	15	38	07	08	15	15	5*01	5*01	01	01	05	05	02	02	01	13
228	02	11	15	38	07	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
234	02	11	15	38	07	08	15	15	5*01	5*01	01	01	05	05	NT	NT	01	13
239	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	11	15	38	07	08	15	15	5*01	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
255	02	11	15	38	NT	NT	15	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	11	15	38	07	08	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
262	02	11	15	38	07	08	15	15	5*PRESENT	5*PRESENT	01	01	05	05	NT	NT	NT	NT
265	02	11	15	38	07	08	15	15	5*01	5*01	01	01	05	05	02	02	01	13
266	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	02	02	01	13
267	02	11	15	38	07	08	15	15	5*01	5*01	01	01	05	05	NT	NT	NT	NT
268	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
278	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
280	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
282	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
285	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
286	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
288	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
290	02	11	15	38	NT	NT	15	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
293	02	11	15	38	07	08	15	15	5*PRESENT	5*PRESENT	01	01	05	05	NT	NT	NT	NT
294	02	11	15	38	07	08	15	15	5*01	5*01	01	01	05	05	NT	NT	NT	NT
304	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
305	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
309	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	02	02	01	13
310	02	11	15	38	NT	NT	15	15	5*PRESENT	5*PRESENT	NT	NT	05	05	NT	NT	NT	NT
311	02	11	15	38	07	08	15	15	5*PRESENT	5*PRESENT	01	01	05	05	NT	NT	NT	NT
312	02	11	15	38	07	08	15	15	5*01	5*01	01	01	05	05	02	02	01	13
316	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	02	02	01	13
318	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	02	02	01	13
324	NT	NT	NT	NT	07	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
328	02	11	15	38	07	08	15	15	NP	NP	01	01	05	05	NT	NT	NT	NT
402	02	11	15	38	07	08	15	15	NT	NT	NT	NT	05	05	NT	NT	01	13
519	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 12. Individual laboratory results for DNA # 964 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
702	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
714	02	11	15	38	07	08	15	15	NT	NT	NT	NT	05	05	NT	NT	NT	NT
726	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
805	02	11	15	38	07	08	15	15	5*01	5*01N	NT	NT	05	05	NT	NT	NT	NT
1212	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
1251	02	11	15	38	07	08	15	15	5*01	5*01	01	01	05	05	02	02	01	13
1647	02	11	15	38	07	08	15	15	5*PRESENT	5*PRESENT	01	01	05	05	02	02	01	13
2063	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
2518	02	11	15	38	07	08	15	15	5*01	5*NULL	01	01	05	05	02	02	01	13
2549	NT	NT	NT	NT	NT	NT	NT	NT	5*01	5*01N	NT	NT	NT	NT	NT	NT	NT	NT
3438	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	02	02	NT	NT
3600	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02	NT	NT
3625	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
3849	02	11	15	38	07	08	15	15	5*01	5*01	NT	NT	05	05	NT	NT	NT	NT
4281	02	11	15	38	07	08	15	15	5*PRESENT	5*NULL	01	01	05	05	02	02	01	13
4420	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	01	13
4545	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
4551	02	11	15	38	07	08	15	NT	5*01	5*01N	01	01	05	05	NT	NT	01	13
4582	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
4585	02	11	15	38	07	08	15	15	NT	NT	01	01	05	05	NT	NT	NT	NT
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	02	11	15	38	07	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	11	15	38	07	08	15	15	5*01	5*01N	01	01	05	05	02	02	01	13
9221	02	11	15	38	07	08	15	15	5*01	5*01N	01	NT	05	05	02	NT	01	13
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02	11	15	38	07	08	15	15	5*01	NG	01	01	05	05	02	02	01	13



**Table 13. Individual laboratory results for DNA # 965 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
7	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01G	06:03:01	01:03:01	01:03:01	04:01:01G	06:01:01G
16	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01	06:01:01
124	02:01:01:01	02:01:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01G	06:03:01	01:03:01	01:03:01	04:01:01G	06:01:01G
138	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
147	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
158	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
185	02:01:01G	02:01:01G	07:02:01G	44:02:01G	07:02:01G	07:04:01G	04:04P	13:01P	3*01:01P	4*01:01P	01:03:01G	03:01:01G	03:02P	06:03P	NT	NT	04:01:01G	06:01:01G
188	02:01	02:01	07:02	44:02:01	07:02	07:04	04:04	13:01	NT	NT	01:03	03:01:01	03:02	06:03:01:01	01:03	01:03	04:01P	06:01
189	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	NT	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
192	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02	06:03	01:03:01:03	01:03:01:04	04:01:01G	06:01:01G
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01	06:01:01
213	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
218	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	04:01	06:01
227	02:01	02:01	07:02:01	44:02	07:02	07:04:01	04:04	13:01:01	3*01:01	4*01:03	01:03	03:01	03:02:01	06:03	01:03	01:03	04:01	06:01
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	NT	NT	NT	NT	03:02:01G	06:03	NT	NT	04:01:01G	06:01:01G
264	02:01:01G	02:01:01G	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01	06:01:01
282	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01	06:01:01
294	02:01P	02:01P	07:02	44:02	07:02	07:04	04:04P	13:01P	3*01:01P	NT	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
298	02:01	02:01	07:02	44:02	07:02	07:04	NEW	13:01	NT	NT	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
403	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	NT	NT	NT	NT	03:02	06:03	NT	NT	04:01:01G	06:01:01G
519	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01G	06:01:01G
615	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
732	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
805	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
1189	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
1212	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
2063	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01	06:01
2862	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01	06:01
3325	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
4551	02:01	NT	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	NT	NT	04:01:01G	06:01:01G
4582	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01:01G	06:01:01G
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
6051	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01	06:01
14982	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01G	06:03:01G	01:03:01	01:03:01	04:01:01G	06:01:01G

Final Consensus based on High Resolution	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
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**Table 14. Individual laboratory results for DNA # 965 High 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
144	02:01P	02:01P	07:02P	44:02P	07:02P	07:04P	04:04:01	13:01:01	NT	NT	01:03	03:01:01G	03:02P	06:03P	01:03:01G	01:03:01G	04:01:01G	06:01
151	02:01:01G	02:01:01G	07:02:01G	44:02:01G	07:02:01G	07:04:01G	04:04	13:01	NT	NT	NT	NT	03:02:01G	06:03:01G	NT	NT	04:01:01G	06:01:01G
155	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
162	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
173	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
174	02:01:01G	02:01:01G	07:02:01G	44:02	07:02:01G	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
176	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
190	02:01:01:01	02:01:01:01	07:02:01:01	44:02:01:01	07:02:01G	07:04:01	04:04:01	13:01:01:01	NT	NT	NT	NT	03:02:01	06:03:01:01	NT	NT	NT	NT
193	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
239	NT	NT	07:02	NT	07:02	NT	NT	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01	NT	NT	NT	NT	NT	NT
262	02:01	02:01	NT	NT	NT	NT	04:04	13:01	NT	NT	01:03	03:01	03:02	06:03	NT	NT	NT	NT
267	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:01	01:03	03:01	03:02	06:03	NT	NT	NT	NT
278	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
288	NT	NT	NT	NT	NT	NT	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
292	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	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	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	06:01
316	NT	NT	NT	NT	NT	NT	04:04	13:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	02:01	07:02	44:02	07:01	07:04	04:04	13:01	3*01:01	4*01:01	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01
402	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	04:01	06:01
702	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	04:04:01	13:01:01	3*01:01	4*01:03	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	04:01:01	06:01:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	NT	NT	NT	NT	04:01	06:01
1498	02:01:01G	02:01:01G	07:02:01G	44:02:01G	07:02:01G	07:04:01G	04:04:01	13:01:01	NT	NT	NT	NT	03:02:01G	06:03	NT	NT	04:01:01G	06:01:01G
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	04:01	06:01
2549	02:01:01G	02:01:01G	07:02:01G	44:02	07:02:01G	07:04:01G	04:04	13:01:01G	NT	NT	01:03	03:01:01G	03:02	06:03	01:03:01G	01:03:01G	04:01:01G	06:01:01G
3410	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
3438	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
3582	02:01:01G	02:01:01G	07:02:01G	44:02:01G	07:02:01G	07:04:01G	04:04	13:01:01G	3*01:01:02G	4*01:01:01G	NT	NT	03:02:01G	06:03:01G	NT	NT	04:01:01G	06:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	06:01
3614	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	NT	01:03	03:01:01G	03:02	06:03	01:03	01:03	04:01	06:01
3625	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	NT	NT	01:03	03:01	03:02	06:03	NT	NT	04:01	06:01
3849	02:01:01G	02:01:01G	NT	NT	NT	NT	04:04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	02:01	02:01	07:02	44:02	07:02	NT	04:04	13:01	NT	NT	01:03	03:01	03:02	06:03	NT	NT	NT	NT
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	02:01:01	02:01:01	07:02:01	44:02:01	07:02:01	07:04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9222	02:01	02:01	NT	NT	NT	NT	04:04	13:01	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
<b>Final Consensus</b>	02:01	02:01	07:02	44:02	07:02	07:04	04:04	13:01	3*01:01	4*01:03	01:03	03:01	03:02	06:03	01:03	01:03	04:01	06:01

**Table 15. Individual laboratory results for DNA # 965 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
138	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
139	02	NT	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	04(DP401)	06
142	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	NT	NT	NT	NT
144	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	01	01	04(DP401)	06
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	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	02	07	44	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
189	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
190	02	02	07	44	07	07	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
192	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
195	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	01	01	04(DP401)	06
199	NT	NT	NT	NT	NT	NT	04	13	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
205	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
213	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	04(DP401)	06
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
228	02	02	07	44	07	07	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
234	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	NT	NT	04(DP401)	06
239	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	NT	NT
242	02	NT	07	44	07	NT	04	13	3*PRESENT	4*PRESENT	01	03	03	06	NT	NT	NT	NT
252	02	02	07	44	07	07	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
255	02	02	07	44	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	02	07	44	07	07	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
262	02	02	07	44	07	07	04	13	3*PRESENT	4*PRESENT	01	03	03	06	NT	NT	NT	NT
265	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
266	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	01	01	04(DP401)	06
267	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	NT	NT	NT	NT
268	02	02	07	44	07	07	04	14	NT	NT	01	03	03	06	NT	NT	NT	NT
278	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
280	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
282	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
288	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
290	02	02	07	44	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
293	02	02	07	44	07	07	04	13	3*PRESENT	4*PRESENT	01	03	03	06	NT	NT	NT	NT
294	02	02	07	44	07	07	04	13	3*01	4*01	NT	NT	03	06	NT	NT	NT	NT
304	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
305	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
309	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	01	01	04(DP401)	03
310	02	02	07	44	NT	NT	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	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	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
316	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	01	01	04(DP401)	06
318	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	01	01	04(DP401)	06
324	NT	NT	NT	NT	07	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
328	02	02	07	44	07	07	04	13	NP	NP	01	03	03	06	NT	NT	NT	NT
402	02	02	07	44	07	07	04	13	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	06
519	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 15. Individual laboratory results for DNA # 965 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
702	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
714	02	02	07	44	07	07	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
726	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
805	02	02	07	44	07	07	04	13	3*01	4*01	NT	NT	03	06	NT	NT	NT	NT
1212	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
1251	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
1647	02	02	07	44	07	07	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	04(DP401)	06
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
2549	NT	NT	NT	NT	NT	NT	NT	NT	3*01	4*01	NT	NT	NT	NT	NT	NT	NT	NT
3438	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	NT	NT	NT	NT
3600	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	4*01	NT	NT	NT	NT	NT	NT	NT	NT
3625	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
3849	02	02	07	44	07	07	04	13	3*01	4*01	NT	NT	03	06	NT	NT	NT	NT
4281	02	02	07	44	07	07	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	04(DP401)	06
4420	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
4545	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
4551	02	NT	07	44	07	07	04	13	3*01	4*01	01	03	03	06	NT	NT	04(DP401)	06
4582	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
4585	02	02	07	44	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
4709	02	02	07	44	07	07	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
5451	02	02	07	44	07	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
9221	02	02	07	44	07	NT	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02	02	07	44	07	07	04	13	3*01	4*01	01	03	03	06	01	01	04(DP401)	06

**Table 16. Individual laboratory results for DNA # 966 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	04:02:01G
16	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	105:01:01
124	02:01:01:01	03:01:01:01	07:02:01	45:01:01	07:02:01	16:01:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	04:02:01G
138	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
147	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	NT	NT	04:01	105:01
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	03:01:01G	07:02:01G	45:01:01G	07:02:01G	16:01:01G	11:02P	15:01P	3*02:02P	5*01:01P	01:02:01G	05:01:01G	03:01P	06:02P	NT	NT	04:01:01G	04:02:01G
188	02:01	03:01:01:01	07:02	45:01:01	07:02	16:01:01:01	11:02:01	15:01	NT	NT	01:02	05:05:01	03:19:01	06:02:01:01	01:03	03:01:01	04:01	04:02P
189	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
192	02:01:01	03:01:01:01	07:02:01	45:01:01	07:02:01	16:01:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01G	01:02:01	05:05:01	03:19	06:02	01:03:01:02	03:01:01	04:01:01	04:02:01G
195	NT	NT	NT	45:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	105:01:01
213	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	NT	NT	04:01	04:02P
218	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	04:01	105:01
227	02:01	03:01	07:02:01	45:01	07:02	16:01:01	11:02	15:01:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	02:01:01	03:01:01:01	07:02:01	45:01:01	07:02:01	16:01:01:01	11:02:01	15:01:01	NT	NT	NT	NT	03:19	06:02:01G	NT	NT	04:01:01	04:02:01G
264	02:01:01G	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	105:01:01
282	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	105:01:01
294	02:01P	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	01:02	05:05	03:19	06:02	NT	NT	04:01	04:02P
298	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	01:02	05:05	03:19	06:02	NT	NT	04:01	105:01
403	02:01:01	03:01:01:01	07:02:01	45:01:01	07:02:01	16:01:01:01	11:02:01	15:01:01	NT	NT	NT	NT	03:19	06:02	NT	NT	04:01:01	04:02:01G
519	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	04:02:01G
615	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
732	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
805	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
1189	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
1212	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	04:02P
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	105:01
3325	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	04:02:01G
4551	02:01P	03:01P	07:02P	45:01P	07:02P	16:01P	11:02P	15:01P	3*02:02:01:01	5*01:01:01	01:02P	05:01P	03:19:01	06:02P	NT	NT	04:01P	04:02P
4582	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	04:02:01G
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	05:05	NT	NT	01:03	03:01	04:01	105:01
6051	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	105:01:01
14982	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01G	04:02:01G

Final Consensus based on High Resolution	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	NG
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**Table 17. Individual laboratory results for DNA # 966 High 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
144	02:01P	03:01P	07:02P	45:01P	07:02P	16:01P	11:02:01	15:01:01	NT	NT	01:02:01G	05:05	03:19:01	06:02:01	01:03:01G	03:01	04:01:01G	04:02:01G
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
155	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	NT	NT
162	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	NT	NT	03:01:01G	06:02	NT	NT	NT	NT
173	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
174	02:01:01G	03:01	07:02	45:01	07:02:01G	16:01	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	NT	NT
176	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	NT	NT
190	02:01:01:01	03:01:01G	07:02:01:01	45:01:01	07:02:01G	16:01:01:01	11:02:01	15:01:01:01	NT	NT	NT	NT	03:19:01	06:02:01:01	NT	NT	NT	NT
193	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	NT	NT
239	NT	NT	07:02	45:01	07:02	16:01	11:02	NT	NT	NT	01:02	NT	NT	NT	NT	NT	04:01	105:01
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	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	NT	NT	NT	NT
278	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	105:01
288	NT	NT	NT	NT	NT	NT	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	NT	NT
292	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	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
316	NT	NT	NT	NT	NT	NT	11:02	15:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	03:01	04:01	04:02
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	11:02:01	15:01:01	3*02:02	5*01:01	01:02:01	05:05:01	03:19:01	06:02:01	01:03:01	03:01:01	04:01:01	105:01:01
1251	NT	NT	NT	45:01	NT	NT	11:02	NT	3*02:02	5*01:01	NT	NT	03:19	NT	01:03	03:01	04:01	105:01
1498	02:01:01G	03:01:01G	07:02:01G	45:01:01G	07:02:01G	16:01:01G	11:02:01	15:01:01	NT	NT	NT	NT	03:19	06:02:01G	NT	NT	04:01:01	105:01:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01	04:01	04:02:01G
2549	02:01:01G	03:01:01G	07:02:01G	45:01:01G	07:02:01G	16:01:01G	11:02	15:01:01G	NT	NT	01:02:01G	05:01:01G	03:19	06:02	01:03:01G	03:01	04:01:01G	04:02:01G
3410	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	NT	NT
3438	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	NT	NT	03:19	06:02	NT	NT	NT	NT
3582	02:01:01G	03:01:01G	07:02:01G	45:01:01G	07:02:01G	16:01:01G	11:02	15:01:01G	3*02:02:01G	5*01:01:01G	NT	NT	03:19	06:02:01G	NT	NT	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	105:01
3614	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	NT	03:19	06:02	01:03	03:01	04:01	105:01
3625	02:01	03:01	07:02	45:01	07:02	16:01	11:02	15:01	NT	NT	01:02	05:05	03:19	06:02	NT	NT	04:01	105:01
3849	NT	NT	NT	NT	NT	NT	11:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	02:01	03:01	07:02	45:01	07:02	NT	11:02	NT	NT	NT	05:05	NT	NT	NT	NT	NT	NT	NT
4585	NT	NT	NT	45:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	02:01:01	03:01:01	07:02:01	45:01:01	07:02:01	16:01:01	NT	NT	NT	NT	NT	NT	NT	NT	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	03:01	07:02	45:01	07:02	16:01	11:02	15:01	3*02:02	5*01:01	01:02	05:05	03:19	06:02	01:03	03:01	04:01	NG

**Table 18. Individual laboratory results for DNA # 966 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
138	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
139	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	04(DP401)	105
142	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	NT	NT	NT	NT
144	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	01	03	04(DP401)	04(DP402)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	02	03	07	45	07	16	11	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	04(DP402)
152	02	03	07	45	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
189	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
190	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
192	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	04(DP402)
195	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	01	03	04(DP401)	105
199	NT	NT	NT	NT	NT	NT	11	15	3*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
205	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
213	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	NT	NT	04(DP401)	04(DP402)
215	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	03	NT	03	03	NT	NT	NT	NT
227	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
228	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	NT	NT	03	03	NT	NT	NT	NT
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
255	02	03	07	45	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
266	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	01	03	04(DP401)	04(DP402)
267	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	NT	NT	NT	NT
268	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
278	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
280	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
282	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
288	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
290	02	03	07	45	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
293	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	01	05	03	06	NT	NT	NT	NT
294	02	03	07	45	07	16	11	15	3*02	5*01	NT	NT	03	06	NT	NT	NT	NT
304	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
305	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
309	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	01	03	04(DP401)	04(DP402)
310	02	03	07	45	NT	NT	11	15	3*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
311	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	01	05	03	06	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	01	03	04(DP401)	04(DP402)
318	02	03	07	45	07	16	11	15	NP	NT	01	05	03	06	01	03	04(DP401)	04(DP402)
324	NT	NT	NT	NT	07	16	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
328	02	03	07	45	07	16	11	15	NP	NP	01	05	03	06	NT	NT	NT	NT
402	02	03	07	45	07	16	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
519	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 18. Individual laboratory results for DNA # 966 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
702	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
714	02	03	07	45	07	16	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
726	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
805	02	03	07	45	07	16	11	15	3*02	5*01	NT	NT	03	06	NT	NT	NT	NT
1212	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
1251	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
1647	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	01	05	03	06	01	03	04(DP401)	105
2063	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
2518	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
2549	NT	NT	NT	NT	NT	NT	NT	NT	3*02	5*01	NT	NT	NT	NT	NT	NT	NT	NT
3438	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	NT	NT
3600	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05	NT	NT	NT	NT	NT	NT
3625	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
3849	02	03	07	45	07	16	11	15	3*02	5*01	NT	NT	03	06	NT	NT	NT	NT
4281	02	03	07	45	07	16	11	15	3*PRESENT	5*PRESENT	01	05	03	06	01	03	04(DP401)	105
4420	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
4545	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
4551	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	04(DP402)
4582	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	04(DP402)
4585	02	03	07	45	07	16	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
4709	02	03	07	45	07	16	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
5451	02	03	07	45	07	16	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
9221	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	105
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02	03	07	45	07	16	11	15	3*02	5*01	01	05	03	06	01	03	04(DP401)	NG



**Table 19. Individual laboratory results for DNA # 967 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01G	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01G	06:01	01:03:01	01:03:01	03:01:01	04:01:01
16	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01G	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01	06:01:01	01:03:01	01:03:01	03:01:01	04:01:01
124	02:01:01:01	32:01:01:01	15:15	52:01:01:02	01:02:01	12:02:02	04:10:01	15:02:01G	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01G	06:01	01:03:01	01:03:01	03:01:01	04:01:01
138	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02:01:01	32:01:01	15:15	52:01:01:02	01:02:01	12:02:02	04:10	15:02:01	4*01:01:01G	5*01:02	01:03:01	03:01:01	03:02	06:01:01G	NT	NT	03:01:01	04:01:01
185	02:01:01G	32:01:01G	15:15	52:01:01G	01:02:01G	12:02:01G	04:10	15:02P	4*01:01P	5*01:02:01G	01:03:01G	03:01:01G	03:02P	06:01P	NT	NT	03:01:01G	04:01:01G
188	02:01	32:01	15:15	52:01:01:02	01:02	12:02:02	04:10	15:02P	NT	NT	01:03:01:01	03:01:01	03:02	06:01:01	01:03	01:03	03:01P	04:01P
189	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
192	02:01:01	32:01:01	15:15	52:01:01:02	01:02:01	12:02:02	04:10	15:02:01	4*01:03:02	5*01:02	01:03:01:01	03:01:01	03:02	06:01:01G	01:03:01	01:03:01:03	03:01:01	04:01:01
195	02:01:01:01	32:01:01:01	15:15	52:01:01:02	01:02:01:01	12:02:02	04:10:01	15:02P	4*01:03:02	5*01:02	01:03:01:01	03:01:01	03:02P	06:01	01:03:01	01:03	03:01:01	04:01:01
205	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01	06:01:01	01:03:01	01:03:01	03:01:01	04:01:01
213	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02P	4*01:03	5*01:02	01:03	03:01	03:02	06:01	NT	NT	03:01	04:01
218	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	03:01	04:01
227	02:01	32:01	15:15	52:01:01	01:02:01	12:02:02	04:10	15:02:01	4*01:03	5*01:02	01:03	03:01	03:02:01	06:01	01:03	01:03	03:01	04:01
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10	15:02:01G	NT	NT	NT	NT	03:02:01G	06:01:01G	NT	NT	03:01:01G	04:01:01G
264	02:01:01G	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01	06:01:01	01:03:01	01:03:01	03:01:01G	04:01:01G
282	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01	06:01:01	01:03:01	01:03:01	03:01:01	04:01:01
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02P	NT	NT	01:03	03:01	03:02	06:01			03:01	04:01
403	02:01:01	32:01:01	15:15	52:01:01:02	01:02:01	12:02:02	04:10	15:02:01	NT	NT	NT	NT	03:02	06:01:01G	NT	NT	03:01:01G	04:01:01G
519	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
732	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
805	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
1189	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01	NT	NT	NT	NT	03:01	04:01
2063	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01	06:01:01	01:03:01	01:03:01	03:01:01	04:01:01
2862	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10	15:02:01	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01	06:01:01	01:03:01	01:03:01	03:01:01	04:01:01
3325	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01:01G	04:01:01G
4551	02:01P	32:01P	15:15	52:01P	01:02P	12:02P	04:10:01	15:02P	4*01:03	5*01:02	01:03P	03:01P	03:02P	06:01P	NT	NT	03:01P	04:01P
4582	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02:01G	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01:01G	04:01:01G
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	04:01
6051	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01	06:01:01	01:03:01	NT	03:01:01	04:01:01
14982	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01G	4*01:03:02	5*01:02	01:03:01	03:01:01	03:02:01G	06:01:01G	01:03:01	01:03:01	03:01:01G	04:01:01G

Final Consensus based on High Resolution	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
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**Table 20. Individual laboratory results for DNA # 967 High 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
144	02:01P	32:01P	15:15	52:01:01	01:02P	12:02P	04:10	15:02P	NT	NT	01:03	03:01:01G	03:02	06:01	01:03:01G	01:03:01G	03:01:01G	04:01:01G
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
155	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
162	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
173	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
174	02:01:01G	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
176	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
190	02:01:01:01	32:01:01:01	15:15	52:01:01:01	01:02:01:01	12:02:02	04:10:01	15:02:01	NT	NT	NT	NT	03:02:01	06:01:01	NT	NT	NT	NT
193	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
239	NT	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	NT	01:03	03:01	03:02	06:01	NT	NT	03:01	04:01
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	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:01	5*01:02	01:03	03:01	03:02	06:01	NT	NT	NT	NT
278	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
288	NT	NT	NT	NT	NT	NT	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
292	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	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
316	NT	NT	NT	NT	NT	NT	04:10	15:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:01	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	04:10:01	15:02:01	4*01:03	5*01:02	01:03:01	03:01:01	03:02:01	06:01:01	01:03:01	01:03:01	03:01:01	04:01:01
1251	NT	NT	15:15	NT	NT	NT	NT	NT	4*01:03	5*01:02	NT	NT	NT	NT	01:03	01:03	03:01	04:01
1498	02:01:01G	32:01:01G	15:15	52:01:01G	01:02:01G	12:02:01G	04:10	15:02:01G	NT	NT	NT	NT	03:02:01G	06:01:01G	NT	NT	03:01:01G	04:01:01G
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	03:01:01G	04:01
2549	02:01:01G	32:01:01G	15:15	52:01:01G	01:02:01G	12:02:01G	04:10	15:02:01G	NT	NT	01:03	03:01:01G	03:02	06:01	01:03:01G	01:03:01G	03:01:01G	04:01:01G
3410	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
3438	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
3582	02:01:01G	32:01:01G	15:15	52:01:01G	01:02:01G	12:02:01G	04:10:01	15:02:01G	4*01:01:01G	5*01:02:01G	NT	NT	03:02:01G	06:01:01G	NT	NT	03:01:01G	04:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01P	04:01P
3614	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	5*01:02	01:03	03:01:01G	03:02	06:01	01:03	01:03	03:01:01G	04:01:01G
3625	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	01:03	03:01	03:02	06:01	NT	NT	03:01	04:01
3849	NT	NT	15:15	52:01:01G	NT	NT	04:10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	02:01	32:01	15:15	52:01	01:02	12:02	04:10	15:02	NT	NT	01:03	03:01	03:02	06:01	NT	NT	NT	NT
4585	NT	NT	15:15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	02:01:01	32:01:01	15:15	52:01:01	01:02:01	12:02:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9222	02:01	32:01	NT	NT	NT	NT	04:10	15:02	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	32:01	15:15	52:01	01:02	12:02	04:10	15:02	4*01:03	5*01:02	01:03	03:01	03:02	06:01	01:03	01:03	03:01	04:01
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**Table 21. Individual laboratory results for DNA # 967 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
138	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
139	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	03	04(DP401)
142	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	NT	NT	NT	NT
144	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	01	01	03	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	02	32	15	52	01	12	04	15	NT	NT	NT	NT	03	06	NT	NT	03	04(DP401)
152	02	32	15	52	NT	NT	04	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	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
190	02	32	15	52	01	12	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
192	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
199	NT	NT	NT	NT	NT	NT	04	04	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
205	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
213	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	NT	NT	03	04(DP401)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
228	02	32	15	52	01	12	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	32	15	52	01	12	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
255	02	32	15	52	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	32	15	52	01	12	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
266	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	01	01	03	04(DP401)
267	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	NT	NT	NT	NT
268	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
278	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
280	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
282	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
288	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
290	02	32	15	52	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
293	02	32	15	52	01	12	04	15	4*PRESENT	5*PRESENT	01	03	03	06	NT	NT	NT	NT
294	02	32	15	52	01	12	04	15	NT	NT	NT	NT	03	06	NT	NT	03	04(DP401)
304	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
305	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
309	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP401)
310	02	32	15	52	NT	NT	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	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
316	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	01	01	03	04(DP401)
318	02	32	15	52	01	12	04	15	NP	NT	01	03	03	06	01	01	03	04(DP401)
324	NT	NT	NT	NT	01	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
328	02	32	15	52	01	12	04	15	NP	NP	01	03	03	06	NT	NT	NT	NT
402	02	32	15	52	01	12	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
519	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)

**Table 21. Individual laboratory results for DNA # 967 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
702	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
714	02	32	15	52	01	12	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
726	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
805	02	32	15	52	01	12	04	15	4*01	5*01	NT	NT	03	06	NT	NT	NT	NT
1212	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
1251	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
1647	02	32	15	52	01	12	04	15	4*PRESENT	5*PRESENT	01	03	03	06	01	01	03	04(DP401)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
2549	NT	NT	NT	NT	NT	NT	NT	NT	4*01	5*01	NT	NT	NT	NT	NT	NT	NT	NT
3438	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
3600	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	4*01	NT	NT	NT	NT	NT	NT	NT	NT	NT
3625	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
3849	02	32	15	52	01	12	04	15	4*01	5*01	NT	NT	03	06	NT	NT	NT	NT
4281	02	32	15	52	01	12	04	15	4*PRESENT	5*PRESENT	01	03	03	06	01	01	03	04(DP401)
4420	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
4545	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
4551	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
4582	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
4585	02	32	15	52	01	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
4709	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
5451	02	32	15	52	01	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)
9221	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	NT	03	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02	32	15	52	01	12	04	15	4*01	5*01	01	03	03	06	01	01	03	04(DP401)

**Table 22. Individual laboratory results for DNA # 968 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01	03:02:01G	01:03:01	01:03:01	02:01:02	04:01:01
16	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
124	03:01:01:01	26:01:01:01	08:01:01:01	44:02:01	05:01:01:02	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01	03:02:01G	01:03:01	01:03:01	02:01:02	04:01:01
138	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	03:01:01:01	26:01:01:01	08:01:01:01	44:02:01	05:01:01:02	07:01:01	03:01:01G	04:02:01	3*01:01:02G	4*01:01:01G	03:01:01	05:01:01:02	02:01:01G	03:02	NT	NT	02:01:02	04:01:01
185	03:01:01G	26:01:01G	08:01:01G	44:02:01G	05:01:01G	07:01:01G	03:01P	04:02P	3*01:01P	4*01:01P	03:01:01G	05:01:01G	02:01P	03:02P	NT	NT	02:01:02G	04:01:01G
188	03:01:01:01	26:01:01:01	08:01:01:01	44:02	05:01:01:02	07:01	03:01P	04:02:01	NT	NT	03:01:01	05:01:01:02	02:01:01	03:02	01:03	01:03	02:01	04:01
189	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	NT	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
192	03:01:01:01	26:01:01:01	08:01:01:01	44:02:01	05:01:01:02	07:01:01	03:01:01G	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01:02	02:01:01G	03:02	01:03:01	01:03:01:02	02:01:02	04:01:01
195	03:01:01:01	26:01:01:01	08:01:01:01	44:02:01:01	05:01:01:02	07:01:01	03:01:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01:02	02:01:01	03:02P	01:03:01	01:03:01:02	02:01:02	04:01:01:02
205	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
213	03:01	26:01	08:01	44:02	05:01	07:01	03:01P	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	NT	NT	02:01	04:01
218	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	NT	NT	02:01	03:02	NT	NT	02:01	04:01
227	03:01	26:01:01	08:01:01	44:02	05:01:01	07:01:01	03:01:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01:01	03:02:01	01:03	01:03	02:01	04:01
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	03:01:01:01	26:01:01:01	08:01:01:01	44:02:01	05:01:01:02	07:01:01	03:01:01G	04:02:01	NT	NT	NT	NT	02:01:01G	03:02:01G	NT	NT	02:01:02	04:01:01
264	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01G	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01	03:02:01	01:03:01	01:03:01	02:01:02G	04:01:01
282	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	03:01	05:01	02:01	03:02	NT	NT	02:01	04:01
403	03:01:01:01	26:01:01:01	08:01:01:01	44:02:01	05:01:01:02	07:01:01	03:01:01G	04:02:01	NT	NT	NT	NT	02:01:01G	03:02	NT	NT	02:01:02	04:01:01
519	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
732	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
805	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
1189	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	05:01	NT	NT	NT	NT	02:01	04:01
2063	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
2862	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:02:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
3325	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
4551	03:01P	26:01P	08:01P	44:02P	05:01P	07:01P	03:01P	04:02:01	3*01:01:02	4*01:03	03:01P	05:01P	02:01:01	03:02	NT	NT	02:01P	04:01P
4582	03:01	26:01	08:01	44:02	05:01	07:01	03:01:01G	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	04:01
6051	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01	03:02:01	01:03:01	NT	02:01:02	04:01:01
14982	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01:02	4*01:03:01	03:01:01	05:01:01	02:01:01G	03:02:01G	01:03:01	01:03:01	02:01:02	04:01:01

Final Consensus based on High Resolution	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
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**Table 23. Individual laboratory results for DNA # 968 High 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
144	03:01P	26:01P	08:01P	44:02P	05:01P	07:01P	03:01	04:02	NT	NT	03:01	05:01	02:01:01	03:02	01:03:01G	01:03:01G	02:01:02G	04:01:01G
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	03:01	26:01	08:01	44:02	05:01	07:01:01G	03:01	04:02	NT	NT	NT	NT	02:01	03:02	NT	NT	NT	NT
173	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
174	03:01	26:01	08:01	44:02	05:01	07:01:01G	03:01	04:02	NT	NT	NT	NT	02:01	03:02	NT	NT	NT	NT
176	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	NT	NT	02:01	03:02	NT	NT	NT	NT
190	03:01:01G	26:01:01:01	08:01:01:01	44:02:01:01	05:01:01G	07:01:01:01	03:01:01:01	04:02:01	NT	NT	NT	NT	02:01:01	03:02:01	NT	NT	NT	NT
193	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	NT	NT	02:01	03:02	NT	NT	NT	NT
239	NT	NT	08:01	NT	05:01	NT	03:01	04:02	3*01:01	4*01:03	NT	05:01	02:01	03:02	NT	NT	02:01	04:01
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	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:01	03:01	05:01	02:01	03:02	NT	NEW	NT	NT
278	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
288	NT	NT	NT	NT	NT	NT	03:01	04:02	NT	NT	NT	NT	02:01	03:02	NT	NT	NT	NT
292	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	NT	NT	02:01	03:02	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
316	NT	NT	NT	NT	NT	NT	03:01	04:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:01	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01:01	04:02:01	3*01:01	4*01:03	03:01:01	05:01:01	02:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
1251	03:01:01G	26:01:01G	08:01:01G	44:02:01G	05:01:01G	07:01:01G	03:01:01G	04:02:01	NT	NT	03:01	05:01	02:01:01	03:02	NT	NT	NT	NT
1498	03:01:01G	26:01:01G	08:01:01G	44:02:01G	05:01:01G	07:01:01G	03:01	04:02	NT	NT	NT	NT	02:01:01G	03:02:01G	NT	NT	02:01	04:01:01G
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	02:01	04:01
2549	03:01:01G	26:01:01G	08:01:01G	44:02	05:01	07:01:01G	03:01:01G	04:02	NT	NT	03:01:01G	05:01	02:01	03:02	01:03:01G	01:03:01G	02:01:02G	04:01:01G
3410	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	NT	NT	02:01	03:02	NT	NT	NT	NT
3438	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	NT	NT	02:01	03:02	NT	NT	NT	NT
3582	03:01:01G	26:01:01G	08:01:01G	44:02:01G	05:01:01G	07:01:01G	03:01:01G	04:02	3*01:01:02G	4*01:01:01G	NT	NT	02:01:01G	03:02:01G	NT	NT	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
3614	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	NT	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01:01G
3625	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	NT	NT	03:01	05:01	02:01	03:02	NT	NT	02:01	04:01
3849	NT	NT	NT	NT	NT	NT	NT	04:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	03:01	26:01	NT	44:02	05:01	NT	03:01	04:02	NT	NT	03:01	05:01	NT	03:02	NT	NT	02:01	NT
4585	NT	NT	NT	NT	NT	NT	NT	04:02	NT	NT	03:01	05:01	NT	NT	NT	NT	NT	NT
5451	03:01:01	26:01:01	08:01:01	44:02:01	05:01:01	07:01:01	03:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9222	03:01	26:01	NT	NT	NT	NT	03:01	04:02	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	03:01	26:01	08:01	44:02	05:01	07:01	03:01	04:02	3*01:01	4*01:03	03:01	05:01	02:01	03:02	01:03	01:03	02:01	04:01

**Table 24. Individual laboratory results for DNA # 968 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
138	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
139	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	02(DP201)	04(DP401)
142	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	NT	NT	NT	NT
144	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	01	01	02(DP201)	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	03	26	08	44	05	07	03	04	NT	NT	NT	NT	02	03	NT	NT	02(DP201)	04(DP401)
152	03	26	08	44	NT	NT	03	04	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	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
190	03	26	08	44	05	07	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
192	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
199	NT	NT	NT	NT	NT	NT	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
205	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
213	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	NT	NT	02(DP201)	04(DP401)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
228	03	26	08	44	05	07	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	03	26	08	44	05	07	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
255	03	26	08	44	NT	NT	03	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	03	26	08	44	05	07	03	04	3*PRESENT	4*PRESENT	NT	NT	02	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	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
266	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	01	01	02(DP201)	04(DP401)
267	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	NT	NT	NT	NT
268	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
278	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
280	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
282	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
288	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
290	03	26	08	44	NT	NT	03	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
293	03	26	08	44	05	07	03	04	3*PRESENT	4*PRESENT	03	05	02	03	NT	NT	NT	NT
294	03	26	08	44	05	07	03	04	3*01	NT	NT	NT	02	03	NT	NT	02(DP201)	04(DP401)
304	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
305	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
309	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	01	01	02(DP201)	04(DP401)
310	03	26	08	44	NT	NT	03	04	3*PRESENT	4*PRESENT	NT	NT	02	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	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	01	01	02(DP201)	04(DP401)
318	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	01	01	02(DP201)	04(DP401)
324	NT	NT	NT	NT	05	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
328	03	26	08	44	05	07	03	04	NP	NP	03	05	02	03	NT	NT	NT	NT
402	03	26	08	44	05	07	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
519	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)

**Table 24. Individual laboratory results for DNA # 968 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
702	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
714	03	26	08	44	05	07	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
726	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
805	03	26	08	44	05	07	03	04	3*01	4*01	NT	NT	02	03	NT	NT	NT	NT
1212	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
1251	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
1647	03	26	08	44	05	07	03	04	3*PRESENT	4*PRESENT	03	05	02	03	01	01	02(DP201)	04(DP401)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
2549	NT	NT	NT	NT	NT	NT	NT	NT	3*01	4*01	NT	NT	NT	NT	NT	NT	NT	NT
3438	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	NT	NT
3600	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	4*01	NT	NT	NT	NT	NT	NT	NT	NT
3625	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
3849	03	26	08	44	05	07	03	04	3*01	4*01	NT	NT	02	03	NT	NT	NT	NT
4281	03	26	08	44	05	07	03	04	3*PRESENT	4*PRESENT	03	05	02	03	01	01	02(DP201)	04(DP401)
4420	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	02(DP201)	NT
4545	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
4551	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
4582	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
4585	03	26	08	44	05	07	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
4709	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	NT	NT
5451	03	26	08	44	05	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)
9221	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	NT	02(DP201)	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	03	26	08	44	05	07	03	04	3*01	4*01	03	05	02	03	01	01	02(DP201)	04(DP401)



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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 SSO-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
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
144	SBT-HA-SC	SBT-HA-SC	SBT-HA-SC	SBT-HA-SC		SSO-OL	SBT-HA-SC	SSO-OL	SSO-OL
147	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	SSP-OLE	SSP-OLE	NGS-GIL		NGS-GIL
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 SSP-OLE	NGS-GD SSP-OLE	NGS-GD SSP-OLE	NGS-GD SSP-OLE	NGS-GD SSP-OLE	NGS-GD SSP-OLE	NGS-GD SSP-OLE		NGS-GD SSP-OLE
162	SBT-BS	SBT-BS	SBT-BS	SBT-BS			SBT-BS		
173				SSO-OL		SSO-OL SSP-INV	SSO-OL	SSO-OL	SSO-OL
174	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		
176	SBT-INH	SBT-INH	SBT-INH	SBT-INH			SBT-INH		
185	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH		NGS-INH
188	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL		NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL
189	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL
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	NGS-GIL	NGS-GIL-INH	NGS-GIL	NGS-GIL-INH
193	SBT-SC SSO-LUM-OLE	SBT-SC SSO-LUM-OLE	SBT-SC SSO-LUM-OLE-SC	SBT-SC SSO-LUM-OLE			SBT-SC SSO-LUM-OLE		
195	NGS-OL	NGS-OL SSO-OL	NGS-OL	NGS-OL	NGS-OL rtPCR-LB	NGS-OL	NGS-OL	NGS-OL	NGS-OL
205	NGS-SC	NGS-SC	NGS-SC	NGS-SC	NGS-SC	NGS-SC	NGS-SC	NGS-SC	NGS-SC
213	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX SSO-OL	NGS-OMX SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX		NGS-OMX SSP-OLE
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		NGS-INH SBT-INH SSP-INH
227	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
234	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL			NGS-GD SSO-OL		NGS-GD SSO-OL
239	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
258	NGS-GD	NGS-GD	NGS-GD	NGS-GD			NGS-GD		NGS-GD
262	SSP-OLE			SSP-OLE-PRO		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		
282	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
288				SSP-OLE			SSP-OLE		
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		
294	NGS-OMX SBT-INH	NGS-OMX SBT-INH	NGS-OMX SBT-INH	NGS-OMX SBT-INH	SBT-INH	NGS-OMX SSO-OL	NGS-OMX		NGS-OMX
298	NGS-OMX SBT-GIL	NGS-OMX SBT-GIL	NGS-OMX SBT-GIL	NGS-OMX SBT-GIL		NGS-OMX	NGS-OMX SBT-GIL		NGS-OMX SBT-GIL
311						SSP-OLE			
312	SBT-INH	SBT-INH	SBT-INH	SBT-INH	SSO-OL		SBT-INH		SSO-OL
316				SSP-OL					

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CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
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
402	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
519	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
615	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
702	SBT-GD								
732	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
805	NGS-GIL SBT-OL	NGS-GIL SBT-OL	NGS-GIL SBT-OL	NGS-GIL SBT-OL	NGS-GIL	NGS-GIL	NGS-GIL SBT-OL SSP-OL	NGS-GIL	NGS-GIL SBT-OL
1189	NGS-OL	NGS-OL	NGS-OL	NGS-OL SSO-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
1212	NGS-OMX SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX SSP-OLE	SSP-OLE	NGS-OMX SSP-OLE
1251	SBT-PRO	SBT-PRO SSO-LUM	SBT-PRO	SBT-PRO SSO-LUM	SSO-LUM	Other-Others SSO-LUM	SBT-PRO SSO-LUM	SSO-LUM	Other-Others SSO-LUM SSP-OLE
1498	SBT-INH	SBT-INH	SBT-INH	SBT-CG			SBT-CG		SBT-CG
2063	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
2518					SSO-OL			SSO-OL	SSO-OL
2549	SBT-OLE	SBT-OLE	SBT-OLE	SBT-OLE		SSP-OLE	SBT-OLE	SSO-OL	SSO-OL
2862	NGS-OMX								
3325	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
3410	SBT-ACT SSO-OL SSP-GV	SBT-ACT SSP-GV	SBT-ACT SSP-GV	SBT-ACT SSO-OL SSP-GV			SBT-ACT SSP-GV		
3438	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG			SBT-TBG		
3582	SBT-CG	SBT-CG	SBT-CG	SBT-CG	SBT-CG		SBT-CG		SBT-CG
3600									rtPCR-LB
3614	SSO-OL	SSO-OL	SSO-OL	SSO-OL SSP-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
3625	SBT-INH	SBT-INH	SBT-INH	SBT-INH	SBT-INH	SBT-INH	SBT-INH	SBT-INH	SBT-INH
3849	SBT-CG-INH	SBT-CG-INH	SBT-CG-INH	SBT-SC			SBT-SC		
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK
4551	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX SSO-OL	SSP-OLE	NGS-OMX SSO-OL	NGS-OMX SSO-OL SSP-OLE		NGS-OMX SSO-OL SSP-OLE
4582	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
4585		SSO-LUM		SSO-LUM		SSO-LUM			
4709	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	NGS-OMX SSP-OLE	SSP-OLE	SSP-OLE	NGS-OMX SSP-OLE rtPCR-LB
5451	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
9222	SBT-SC			SBT-SC					
14982	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL

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CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
134	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL SSP-OLE		
138	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
139	SSO-IMM-TEP	SSO-IMM	SSO-IMM	SSO-IMM		SSO-IMM	SSO-IMM		SSO-IMM
142	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		
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
151	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		SSO-OL
152	SSP-INV	SSP-INV		SSP-INV					
158	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
189	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
190	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE		
192	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
195	SSO-OL	SSO-OL	SSO-OL	SSO-OL	rtPCR-LB	SSO-OL	SSO-OL	SSO-OL	SSO-OL
	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB		rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
199				SSP-OL	SSP-OL		SSP-OL		
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
205	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS
213	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-OLE	SSP-OLE	SSO-OL		SSP-OLE
215	SSP-BR	SSP-BR	SSP-BR	SSP-BR			SSP-BR		
227	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
228	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG		SSP-BAG		
234	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL
	SSP-LB	SSP-LB	SSP-LB	SSP-LB					
239	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
242	SSP-OL-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		
252	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT
255	SSO-OL	SSO-OL		SSO-OL					
260	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO	SSP-BR	SSP-BR		SSP-BR		
262	SSP-BR-PRO	SSP-OLE-PRO	SSP-BR-PRO	SSP-OLE-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
265	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSO-OL	SSO-OL	SSP-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		
268	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
280	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
282	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
285	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
286	SSO-LUM								
288	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG		SSO-BAG	SSO-BAG		
290	SSO-OL	SSO-OL		SSO-OL					
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
293	SSO-IMM	SSO-IMM	SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	SSO-IMM	SSO-IMM		
	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	SSO-OL	Other-Others		SSP-OLE
294	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-OLE		SSO-OL		
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
304	SSO-GTI	SSO-GTI	SSO-GTI	SSO-GTI		SSO-GTI	SSO-GTI		
305	SSO-OL	SSO-OL	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
310	SSP-OL	SSP-OL		SSP-OL	SSP-OL		SSP-OL		
311	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
312	SSO-OL	SSO-OL-TEP	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

**Participants and Methods Low Resolution**

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
318	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
324	SSP-OL	SSP-OL	SSP-OL						
328	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
402	SSO-IMM-OL	SSO-IMM-OL	SSO-IMM-OL	SSO-IMM-OL			SSO-IMM-OL		SSO-IMM-OL
519	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM
702	SSO-LB SSP-LB			SSP-LB	SSP-LB				
714	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL			SSO-LUM-OL		
726	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB
805	SSO-IMM SSP-OL	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM		SSO-IMM		
1212	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB	rtPCR-LB	rtPCR-LB	SSP-OLE rtPCR-LB	rtPCR-LB	rtPCR-LB
1251	Other-Others SSO-LUM SSP-OLE	Other-Others SSO-LUM SSP-OLE	Other-Others SSO-LUM SSP-OLE	Other-Others SSO-LUM SSP-OLE	Other-Others SSO-LUM SSP-OLE	Other-Others SSO-LUM	Other-Others SSO-LUM SSP-OLE	Other-Others SSO-LUM	Other-Others 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 SSP-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
2549					SSO-OL				
3438	SSP-LS	SSP-LS	SSP-LS	SSP-LS	SSP-LS	SSP-LS	SSP-LS	SSP-LS	
3600	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		
4281	SSO-IMM	SSO-IMM SSP-OL	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM SSP-OL	SSO-IMM	SSO-IMM	SSO-IMM SSP-OL
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK
4545	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
4551	Other-Others SSO-OL SSP-OLE rtPCR-LB	Other-Others SSO-OL SSP-OLE rtPCR-LB	Other-Others SSO-OL SSP-OLE rtPCR-LB	Other-Others SSO-OL SSP-OLE rtPCR-LB	Other-Others SSO-OL SSP-OLE rtPCR-LB	Other-Others SSO-OL rtPCR-LB	Other-Others SSO-OL SSP-OLE rtPCR-LB	SSO-OL	Other-Others SSO-OL SSP-OLE rtPCR-LB
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		
4709	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB	rtPCR-LB	rtPCR-LB	SSP-OLE rtPCR-LB	rtPCR-LB	
5451	SSO-LUM	SSO-LUM	SSO-LUM						
8050	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
9221	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB