

# UCLA INTERNATIONAL HLA DNA EXCHANGE—151ST SUMMARY



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DNA Sample	
#927	#930
#928	#931
#929	#932

## DNA #927 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*02:05-A\*31:01-B\*40:11-B\*50:02-C\*03:04-C\*06:02-DRB1\*04:07-DRB1\*11:03-DRB3\*02:02-DRB4\*01:03-DQA1\*03:01-DQA1\*05:05-DQB1\*03:01-DQB1\*03:02-DPA1\*01:03-DPB1\*04:02-DPB1\*124:01.

This sample was previously sent in Exchange #43 as DNA #280 (2000). Agreement for DQA1\*05:05 increased from 85% to 96%.

The likely class II associations in this cell are DRB1\*04:07-DQB1\*03:02 and DRB1\*11:03-DQB1\*03:01, with respective frequencies of HF=0.05700 and HF=0.00788, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #927 are summarized in Table 1 and individual laboratory results are listed in Tables 7 –9.

## DNA #928 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*02:01-A\*24:02-B\*15:15-B\*15:39-C\*01:02-C\*03:03-DRB1\*04:04-DRB4\*01:03-DQA1\*03:01-DQB1\*03:02-DPA1\*01:03-DPB1\*04:02.

This sample was previously sent in Exchange #139 as DNA #855 (2016). In this present typing, 98% of the labs reporting at high resolution are in agreement, which confirms the previous consensus.

The likely class I associations in this cell are A\*02:01-B\*15:15 and A\*24:02-B\*15:39, with respective frequencies of HF=0.00503 and HF=0.00137, as seen exclusively in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #928 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12.

## DNA #929 ASIAN

The consensus type for this sample from an Asian donor is A\*02:01-A\*24:02-B\*40:06-B\*46:01-C\*01:02-C\*08:01-DRB1\*09:01-DRB4\*01:03-DQA1\*03:02-DQB1\*03:03-DPA1\*02:02-DPB1\*02:02-DPB1\*05:01.

The likely associations for this cell are B\*40:06-DRB1\*09:01 and B\*46:01-DRB1\*09:01, with respective frequencies of HF=0.00786 and HF=0.03148, as seen exclusively in Asians, according to the NMDP Bioinformatics website.

The results for DNA #929 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15.



DNA Sample	
#927	#930
#928	#931
#929	#932

### DNA #930 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A\*29:02-A\*32:01-B\*44:02-C\*07:04-DRB1\*04:01-DRB1\*15:01-DRB4\*01:03-DRB5\*01:01-DQA1\*01:02-DQA1\*03:03-DQB1\*03:01-DQB1\*06:02-DPA1\*01:03-DPB1\*04:01:01G-DPB1\*04:02:01G.

The likely associations in this cell are A\*29:02-B\*44:02-DRB1\*04:01-DQB1\*03:01 and A\*32:01-B\*44:02-DRB1\*15:01-DQB1\*06:02, with respective frequencies of HF=0.00015 and HF=0.00024, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #930 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18.

### DNA #931 ASIAN

The consensus type for this sample from an Asian donor is A\*02:01-A\*25:01-B\*18:01-B\*56:01-C\*07:02-C\*12:03-DRB1\*11:01-DRB1\*15:01-DRB3\*02:02-DRB5\*01:01-DQA1\*01:02-DQA1\*05:05-DQB1\*03:01-DQB1\*06:02-DPA1\*01:03-DPA1\*02:02-DPB1\*04:01-DPB1\*05:01.

Two labs mistyped DRB1\*11:01 as DRB1\*11:04. DRB1\*11:04 differs from DRB1\*11:01 in exon 3 at codon 86 by a single nucleotide substitution (GTG -> GGT), resulting in an amino acid change from valine to glycine.

The likely class II associations in this cell are DRB1\*11:01-DQB1\*03:01 and DRB1\*15:01-DQB1\*06:02, with respective frequencies of HF=0.05465 and HF=0.04146, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #931 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21.

### DNA #932 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*02:01-A\*02:06-B\*15:17-B\*39:05-C\*07:01-C\*07:02-DRB1\*04:07-DRB1\*13:02-DRB3\*03:01-DRB4\*01:03-DQA1\*01:02-DQA1\*03:01-DQB1\*03:02-DQB1\*06:04-DPA1\*01:03-DPB1\*02:01-DPB1\*04:02.

From the labs reporting DPB1\*04:02, a total of 9 labs were unable to exclude DPB1\*105:01 and DPB1\*665:01. DPB1\*105:01 and DPB1\*665:01 are identical, but differ at positions 24G>A (synonymous) and 47C>T (non-synonymous) in exon 1, as noted in *High-throughput next-generation sequencing to genotype six classical HLA loci from 96 donors in a single MiSeq run*, (Ehrenberg, P.K. et al. Wiley HLA. 107; 90:284-291)

The likely class II associations in this cell are DRB1\*04:07-DQB1\*03:02 and DRB1\*13:02-DQB1\*06:04, with respective frequencies of HF=0.05700 and HF=0.02736, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #932 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 39 participants reporting their NGS results (See Tables 7, 10, 13, 16, 19, 22).





**Table 3. Summary of the 151st DNA Exchange (DNA #929)**

<b>A</b>				<b>B</b>				<b>C</b>			
<b>61 labs High / 68 labs Low</b>		<b>% (n)</b>		<b>61 labs High / 68 labs Low</b>		<b>% (n)</b>		<b>60 labs High / 62 labs Low</b>		<b>% (n)</b>	
A*02:01:01:01	6 (4)	A*24:02:01:01	13(8)	B*40:06:01:01	10(6)	B*46:01:01	31(19)	C*01:02:01:01	3 (2)	C*08:01:01	30(18)
A*02:01:01	21(13)	A*24:02:01	18(11)	B*40:06:01	18(11)	B*46:01:01G	5 (3)	C*01:02:01	27(16)	C*08:01:01G	10(6)
A*02:01:01G	18(11)	A*24:02:01G	12(7)	B*40:06:01G	5 (3)	B*46:01	64(39)	C*01:02:01G	10(6)	C*08:01	59(35)
A*02:01P	3 (2)	A*24:02P	3 (2)	B*40:01	67(41)	B*46	100(68)	C*01:02P	2 (1)	C*08	100(62)
A*02:01	51(31)	A*24:02	52(31)	B*40	100(68)			C*01:02	58(35)		
A*02	100(68)	A*24	100(68)					C*01	100(62)		

  

<b>DRB1</b>			<b>DRB3/4/5</b>			<b>DQA1</b>		
<b>65 labs High / 71 labs Low</b>		<b>% (n)</b>	<b>36 labs High / 44 labs Low</b>		<b>% (n)</b>	<b>42 labs High / 51 labs Low</b>		<b>% (n)</b>
DRB1*09:01:02	20(13)		DRB4*01:03:01	28(10)	DRB4*01:03:02	26(9)	DQA1*03:02:01	31(13)
DRB1*09:01:02G	19(12)		DRB4*01:01:01G	6 (2)	DRB4*01:01:01G	6 (2)	DQA1*03:01:01G	7 (3)
DRB1*09:01P	14(9)		DRB4*01:01P	6 (2)	DRB4*01:01P	6 (2)	DQA1*03:01P	2 (1)
DRB1*09:01	48(31)		DRB4*01:03	56(20)	DRB4*01:03	57(20)	DQA1*03:02	59(25)
DRB1*09	100(71)		<i>DRB4*01:01</i>	6 (2)	<i>DRB4*01:01</i>	6 (2)	DQA1*03	100(51)
			DRB4*01	77(34)	DRB4*01	74(26)		
			DRB4*PRESENT	23(10)	DRB4*PRESENT	26(9)		

  

<b>DQB1</b>			<b>DPA1</b>			<b>DPB1</b>			
<b>64 labs High / 66 labs Low</b>		<b>% (n)</b>	<b>25 labs High / 31 labs Low</b>		<b>% (n)</b>	<b>55 labs High / 35 labs Low</b>		<b>% (n)</b>	
DQB1*03:03:02:01	1 (1)		DPA1*02:02:02	36(9)		DPB1*02:02:01	24(13)	DPB1*05:01:01	26(14)
DQB1*03:03:02	28(18)		DPA1*02:02	64(16)		DPB1*02:02:01G	4 (2)	DPB1*05:01:01G	7 (4)
DQB1*03:03:02G	1 (1)		DPA1*02	100(31)		DPB1*02:02P	6 (3)	DPB1*05:01P	9 (5)
DQB1*03:03P	1 (1)					DPB1*02:02	65(35)	DPB1*05:01	31(57)
DQB1*03:03	64(41)					<i>DPB1*02:01</i>	2 (1)	DPB1*05	100(35)
<i>DQB1*03:02</i>	3 (2)					DPB1*02(DP202)	100(35)		
DQB1*03	100(66)								

Discrepant results from consensus are italicized in Tables 1-6

**Table 5. Summary of the 151st DNA Exchange (DNA #930)**

A				B				C			
58 labs High / 68 labs Low		% (n)		57 labs High / 68 labs Low		% (n)		57 labs High / 62 labs Low		% (n)	
A*29:02:01:01	12(7)	A*32:01:01	29(17)	B*44:02:01:01	14(8)			C*07:04:01	28(16)		
<i>A*29:01:01:01</i>	2 (1)	A*32:01:01G	12(7)	B*44:02:01	16(9)			C*07:04:01G	12(7)		
A*29:02:01	15(9)	A*32:01	58(34)	B*44:02:01G	16(9)			C*07:04P	2 (1)		
A*29:02:01G	12(7)	A*32	98(67)	B*44:02P	2 (1)			C*07:04	58(33)		
A*29:02P	2 (1)	<i>A*29</i>	1 (1)	B*44:02	52(30)			C*07	100(62)		
A*29:02	52(30)			B*44	100(68)						
<i>A*29:01</i>	5 (3)										
A*29	98(67)										
A*32	2 (1)										

  

DRB1				DRB3/4/5				DQA1			
62 labs High / 70 labs Low		% (n)		34 labs High / 44 labs Low		% (n)		42 labs High / 49 labs Low		% (n)	
DRB1*04:01:01	31(19)	DRB1*15:01:01:01	3 (2)	DRB4*01:03:01	29(10)	DRB5*01:01:01	35(12)	DQA1*01:02:01:01	2 (1)	DQA1*03:03:01:01	5 (2)
DRB1*04:01P	2 (1)	DRB1*15:01:01	26(16)	DRB4*01:01:01G	9 (3)	DRB5*01:01:01G	6 (2)	DQA1*01:02:01	27(11)	DQA1*03:03:01	24(10)
DRB1*04:01	68(42)	DRB1*15:01:01G	6 (4)	DRB4*01:01P	3 (1)	DRB5*01:01P	3 (1)	DQA1*01:02:01G	10(4)	DQA1*03:01:01G	14(6)
DRB1*04	100(70)	DRB1*15:01P	1 (1)	DRB4*01:03	56(19)	DRB5*01:01	56(19)	DQA1*01:02	61(25)	DQA1*03:03	52(22)
		DRB1*15:01	62(38)	<i>DRB4*01:01</i>	3 (1)	DRB5*01	70(31)	DQA1*01	100(49)	<i>DQA1*03:01</i>	5 (2)
		DRB1*15	100(70)	DRB4*01	7(31)	DRB5*PRESENT	30(13)			DQA1*03	100(49)
				DRB4*PRESENT	26(11)						

  

DQB1				DPA1				DPB1			
59 labs High / 65 labs Low		% (n)		24 labs High / 29 labs Low		% (n)		51 labs High / 34 labs Low		% (n)	
DQB1*03:01:01:01	2 (10)	DQB1*06:02:01:01	8 (5)	DPA1*01:03:01:04	4 (1)	DPA1*01:03:01:05	4 (1)	DPB1*04:01:01:01	2 (1)	DPB1*04:02:01	14(7)
DQB1*03:01:01	26(15)	DQB1*06:02:01	20(12)	DPA1*01:03:01	37(9)	DPA1*01:03:01	37(9)	DPB1*04:01:01	12(6)	DPB1*04:02:01G	37(19)
DQB1*03:01:01G	9 (5)	DQB1*06:02:01G	5 (3)	DPA1*01:03:01G	4 (1)	DPA1*01:03:01G	4 (1)	DPB1*04:01:01G	40(20)	DPB1*04:02P	17(9)
DQB1*03:01P	2 (1)	DQB1*06:02P	2 (1)	DPA1*01:03	54(13)	DPA1*01:03	54(13)	DPB1*04:01P	14(7)	DPB1*04:02	31(16)
DQB1*03:01	62(36)	DQB1*06:02	64(38)	DPA1*01	100(29)	DPA1*01	100(28)	DPB1*04:01	32(16)	DPB1*04(DP402)	100(34)
DQB1*03	100(65)	DQB1*06	100(65)					DPB1*04(DP401)	100(34)		

Discrepant results from consensus are italicized in Tables 1-6

**Table 4. Summary of the 151st DNA Exchange (DNA #931)**

A				B				C			
58 labs High / 66 labs Low		% (n)		59 labs High / 66 labs Low		% (n)		57 labs High / 61 labs Low		% (n)	
A*02:01:01:01	5 (3)	A*25:01:01	33(19)	B*18:01:01:01	2 (1)	B*56:01:01	27(16)	C*07:02:01	27(15)	C*12:03:01:01	10(6)
A*02:01:01	23(13)	A*25:01:01G	9 (5)	B*18:01:01	28(16)	B*56:01:01G	14(8)	C*07:02:01G	11(6)	C*12:03:01	21(12)
A*02:01:01G	20(11)	A*25:01	59(34)	B*18:01:01G	14(8)	B*56:01P	2 (1)	C*07:02P	4 (2)	C*12:03:01G	9 (5)
A*02:01P	2 (1)	A*25	100(66)	B*18:01P	3 (2)	B*56:01	58(34)	C*07:02	59(33)	C*12:03P	3 (2)
A*02:01	50(28)			B*18:01	53(30)	B*56	98(65)	C*07	100(61)	C*12:03	56(32)
A*02	100(66)			B*18	100(66)	B*55	2 (1)			C*12	100(61)

  

DRB1				DRB3/4/5				DQA1			
60 labs High / 68 labs Low		% (n)		34 labs High / 40 labs Low		% (n)		39 labs High / 48 labs Low		% (n)	
DRB1*11:01:01	30(18)	DRB1*15:01:01:01	2 (1)	DRB3*02:02:01:01	3 (1)	DRB5*01:01:01	32(11)	DQA1*01:02:01	31(12)	DQA1*05:05:01	33(13)
DRB1*11:01:01G	7 (4)	DRB1*15:01:01	30(18)	DRB3*02:02:01	32(11)	DRB5*01:01:01G	6 (2)	DQA1*01:02:01G	10(4)	DQA1*05:01:01G	13(5)
DRB1*11:01P	2 (1)	DRB1*15:01:01G	7 (4)	DRB3*02:02:01G	9 (3)	DRB5*01:01P	3 (1)	DQA1*01:02	59(23)	DQA1*05:05	51(20)
DRB1*11:01	60(36)	DRB1*15:01P	2 (1)	DRB3*02:02P	3 (1)	DRB5*01:01	59(20)	DQA1*01	100(48)	<i>DQA1*05:01</i>	3 (1)
<i>DRB1*11:04</i>	2 (1)	DRB1*15:01	59(35)	DRB3*02:02	53(18)	DRB5*01	77(30)			DQA1*05	100(48)
DRB1*11	100(68)	DRB1*15	99(67)	DRB3*02	77(31)	DRB5*PRESENT	23(9)				
		<i>DRB1*14</i>	1 (1)	<i>DRB3*01</i>	3 (1)						
				DRB3*PRESENT	20(8)						

  

DQB1				DPA1				DPB1			
57 labs High / 63 labs Low		% (n)		24 labs High / 31 labs Low		% (n)		52 labs High / 34 labs Low		% (n)	
DQB1*03:01:01:01	2 (1)	DQB1*06:02:01:01	7 (4)	DPA1*01:03:01	37(9)	DPA1*02:02:02	37(9)	DPB1*04:01:01	25(13)	DPB1*05:01:01	23(11)
DQB1*03:01:01	32(18)	DQB1*06:02:01	25(14)	DPA1*01:03:01G	4 (1)	DPA1*02:02	63(15)	DPB1*04:01:01G	12(6)	DPB1*05:01:01G	11(6)
DQB1*03:01:01G	5 (3)	DQB1*06:02:01G	5 (3)	DPA1*01:03	58(14)	DPA1*02	100(31)	DPB1*04:01P	8 (4)	DPB1*05:01P	10(5)
DQB1*03:01P	2 (1)	DQB1*06:02P	2 (1)	DPA1*01	100(31)			DPB1*04:01	55(28)	DPB1*05:01	56(29)
DQB1*03:01	59(33)	DQB1*06:02	60(34)					DPB1*04(DP401)	100(33)	DPB1*05	100(34)
DQB1*03	100(63)	DQB1*06	100(63)								

Discrepant results from consensus are italicized in Tables 1-6

**Table 6. Summary of the 151st DNA Exchange (DNA #932)**

A				B				C			
58 labs High / 65 labs Low		% (n)		60 labs High / 65 labs Low		% (n)		56 labs High / 60 labs Low		% (n)	
A*02:01:01:01	5 (3)	A*02:06:01:01	12(7)	B*15:17:01:01	12(7)	B*39:05:01	35(20)	C*07:01:01	2 (1)	C*07:02:01	25(14)
A*02:01:01	21(12)	A*02:06:01	21(12)	B*15:17:01	17(10)	B*39:05	65(37)	C*07:01:02	31(17)	C*07:02:01G	14(8)
A*02:01:01G	21(12)	A*02:06:01G	9 (5)	B*15:17:01G	7 (4)	B*39	100(65)	C*07:01:01G	13(7)	C*07:02P	2 (1)
A*02:01P	2 (1)	A*02:06	59(34)	B*15:17	65(39)			C*07:01P	2 (1)	C*07:02	59(33)
A*02:01	51(29)	A*02	100(62)	B*15	99(64)			C*07:01	53(29)	C*07	100(59)
A*02	100(65)			<i>B*38</i>	1 (1)			C*07	100(60)		
<b>DRB1</b>				<b>DRB3/4/5</b>				<b>DQA1</b>			
62 labs High / 67 labs Low		% (n)		38 labs High / 39 labs Low		% (n)		40 labs High / 47 labs Low		% (n)	
DRB1*04:07:01	24(15)	DRB1*13:02:01	29(18)	DRB3*03:01:01	29(11)	DRB4*01:03:02	24(9)	DQA1*01:02:01	31(12)	DQA1*03:01:01	32(13)
DRB1*04:07:01G	14(9)	DRB1*13:02:01G	10(6)	DRB3*03:01:01G	5 (2)	DRB4*01:01:01G	5 (2)	DQA1*01:02:01G	10(4)	DQA1*03:01:01G	10(4)
DRB1*04:07P	6 (4)	DRB1*13:02P	2 (1)	DRB3*03:01P	3 (1)	DRB4*01:01P	5 (2)	DQA1*01:02	59(23)	DQA1*03:01	57(23)
DRB1*04:07	55(34)	DRB1*13:02	60(37)	DRB3*03:01	63(24)	DRB4*01:03	62(23)	DQA1*01	100(47)	DQA1*03	100(47)
DRB1*04	100(67)	DRB1*13	99(66)	DRB3*03	77(30)	<i>DRB4*01:01</i>	3 (1)				
		<i>DRB1*11</i>	1 (1)	<i>DRB3*01</i>	5 (2)	DRB4*01	82(32)				
				DRB3*PRESENT	18(7)	DRB4*PRESENT	18(7)				
<b>DQB1</b>				<b>DPA1</b>				<b>DPB1</b>			
60 labs High / 62 labs Low		% (n)		25 labs High / 31 labs Low		% (n)		52 labs High / 40 labs Low		% (n)	
DQB1*03:02:01	25(15)	DQB1*06:04:01	24(14)	DPA1*01:03:01	36(9)			DPB1*02:01:02	17(9)	DPB1*04:02:01	17(9)
DQB1*03:02:01G	12(7)	DQB1*06:04:01G	12(7)	DPA1*01:03:01G	4 (1)			DPB1*02:01:02G	24(13)	DPB1*04:02:01G	27(14)
DQB1*03:02P	5 (3)	DQB1*06:04P	5 (3)	DPA1*01:03	60(15)			<i>DPB1*02:02:01G</i>	2 (1)	DPB1*04:02P	15(8)
DQB1*03:02	58(35)	DQB1*06:04	59(35)	DPA1*01	100(31)			DPB1*02:01P	15(8)	DPB1*04:02	40(21)
DQB1*03	100(62)	DQB1*06	100(62)					DPB1*02:01	41(22)	DPB1*04(DP402)	100(33)
								DPB1*02(DP201)	100(34)		

Discrepant results from consensus are italicized in Tables 1-6



**Table 7. Individual laboratory results for DNA # 927 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
16	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	04:02:01G	124:01
134	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01G	NT	NT	04:02:01G	03:01:01G
139	NT	NT	40:11	50:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02:05:01	31:01:02	40:11	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02	4*01:03	03:01	05:05	03:01:01	03:02	NT	NT	04:02	124:01
168	02:05:01G	31:01:02G	40:11	50:02	NT	NT	04:07:01G	11:03:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:05:01G	31:01:02G	40:11:01	50:02	03:04:01G	06:02:01G	04:07P	11:03P	3*02:02P	4*01:01P	03:01:01G	05:01:01G	03:01P	03:02P	NT	NT	04:02:01G	03:01:01G
188	02:05:01	31:01:02:01	40:11	50:02	03:04	06:02	04:07P	11:03:01	NT	NT	03:01:01	05:05	03:01	03:02	01:03	01:03	04:02P	03:01P
189	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	NT	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01
192	02:05	31:01	40:11	50:02	03:04:01G	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	04:02	03:01:01G
195	NT	NT	40:11	50:02	NT	NT	NT	NT	NT	NT	03:01	NT	NT	NT	NT	NT	04:02	124:01
205	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	04:02:01	124:01
207	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	04:02	124:01
213	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	04:02	124:01
218	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
227	02:05	31:01:02	40:11	50:02	03:04:01	06:02	04:07:01	11:03	3*02:02	4*01:03	03:01:01	05:05	03:01:01	03:02:01	01:03	01:03	04:02:01G	03:01:01G
234	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	04:02	124:01
258	02:05:01	31:01:02:01	40:11:01	50:02	03:04:01:02	06:02:01:02	04:07:01G	11:03:01	NT	NT	NT	NT	03:01:01G	03:02	NT	NT	04:02:01G	03:01:01G
264	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	04:02:01G	124:01
294	02:05	31:01P	40:11	50:02	03:04P	06:02P	04:07P	11:03	NT	NT	03:01	05:01P	NT	NT	NT	NT	NT	NT
403	02:05:01	31:01:02:01	40:11	50:02	03:04:01:02	06:02:01:02	04:07:01	11:03:01	NT	NT	NT	NT	03:01:01	03:02:01G	NT	NT	04:02:01G	03:01:01G
452	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	04:02:01	124:01
615	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01
702	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02	4*01:03	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	04:02:01	124:01
726	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01
732	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01
805	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01
1113	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	04:02P	03:01P
1212	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	04:02	124:01
1251	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	NT	NT	NT	NT	03:01:01	03:02:01	NT	NT	NT	NT
1647	02:05	31:01	40:02	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03P	01:03P	04:02P	03:01P
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02:01	03:01:01
3264	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3325	02:05	31:01	40:11	50:02	03:04	06:02	NT	NT	NT	NT	03:01	05:05	03:01	03:02	NT	NT	04:02:01G	03:01:01G
3614	NT	NT	NT	50:02	NT	NT	04:07	NT	NT	4*01:03	03:01	NT	NT	NT	NT	NT	04:02:01G	03:01
4551	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	04:02:01G	03:01:01G
4582	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02:01G	03:01:01G
4709	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	NT	NT	04:02P	03:01P
5451	02:05:01	31:01:02:01	40:11:01	50:02	03:04:01:02	06:02:01:02	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:05	03:01:01	03:02:01	NT	NT	NT	NT
45452	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	04:02:01G	03:01:01G

Final Consensus based on High Resolution	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01
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**Table 8. Individual laboratory results for DNA # 927 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:05	31:01:02G	40:11	50:02	03:04:01G	06:02:01G	04:07:01G	11:03	3*02:02:01G	4*01:01:01G	03:01	05:01:01G	03:01	03:02	NT	NT	04:02:01G	03:01:01G
124	02:05:01	31:01:02:01	40:11:01	50:02	03:04:01:02	06:02:01:02	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:01:01G	03:01:01	03:02:01	01:03:01	01:03:01	04:02:01G	03:01:01G
138	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	04:02	124:01
144	02:05:01	31:01P	40:11	50:02	03:04:01	06:02:01	04:07P	11:03:01	NT	NT	03:01	05:01:01G	03:01:01	03:02	01:03P	01:03P	04:02P	124:01
148	02:05	31:01	40:11	50:02	03:04	06:02P	04:07P	11:03	3*02:02	4*01:01P	NT	NT	03:01	03:02	NT	NT	04:02P	03:01P
151	02:05:01G	31:01:02G	40:11	50:02	03:04	06:02	04:07:01G	11:03	NT	NT	NT	NT	03:01:01G	03:02:01G	NT	NT	04:02:01G	03:01:01G
155	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
162	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	03:01:01G	03:02	NT	NT	NT	NT	
173	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01
174	02:05	31:01:02	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
176	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
190	02:05:01	31:01:02:01	40:11:01	50:02	03:04:01:01	06:02:01G	04:07:01	11:03:01	NT	NT	NT	03:01:01:01	03:02:01	NT	NT	NT	NT	NT
193	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	03:01	03:02	NT	NT	NT	NT	
209	02:05	31:01	40:11:01	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	NT	NT	NT	04:02P	03:01P	
239	NT	31:01	NT	50:02	NT	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02P	03:01P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	05:05:01	NT	NT	NT	NT	NT	NT
249	02:05:01	31:01:02	40:11:01	50:02	03:04:01	06:02:01	04:07:01	11:03:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	04:02:01	124:01
262	02:05	NT	NT	50:02	NT	06:02	04:07	11:03	NT	NT	03:01	05:05	03:01	03:02	NT	NT	NT	NT
267	02:05	31:01	40:01	50:02	03:04	06:02	04:03	11:03	3*02:01	4*01:01	03:01	05:05	03:01	03:02	NT	NT	NT	NT
278	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01
286	NT	NT	NT	50:02	NT	NT	NT	NT	NT	NT	03:01	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	04:07	11:03	NT	NT	NT	03:01	03:02	NT	NT	NT	NT	NT
292	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	03:01	03:02	NT	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	05:05	NT	NT	NT	NT	NT	NT
312	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	04:02	124:01
313	01:01	01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	04:07	11:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:05	31:01	40:11	50:02	03:04	06:02	04:03	11:11	3*02:02	4*01:03	03:01	05:03	03:01	03:02	01:03	01:03	04:02	03:01
402	NT	NT	NT	NT	NT	NT	04:07	11:03	NT	NT	NT	03:01	03:02	NT	NT	NT	NT	NT
769	02:05	31:01P	40:11	50:02	03:04	06:02	04:07P	11:03	3*02:02:01G	4*01:01P	NT	NT	03:01	03:02	NT	NT	04:02P	03:01P
1189	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	NT	NT	03:01	03:02	NT	NT	04:02	124:01
1498	02:05	31:01:02G	40:11	50:02	03:04	06:02:01G	04:07:01G	11:03:01	3*02:02	4*01:03	03:01	05:05:01	03:01:01	03:02:01	NT	NT	04:02:01	124:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	04:02	03:01:01G	
2549	02:05	31:01:02G	40:11	50:02	03:04:01G	06:02:01G	04:07:01G	11:03	NT	NT	03:01	05:05	03:01:01G	03:02:01G	NT	NT	NT	NT
2862	02:05:01	31:01:02:01	40:11:01	50:02	03:04:01:02	06:02:01:02	04:07:01	11:03:01	NT	NT	NT	NT	03:01:01	03:02	NT	NT	NT	NT
3261	NT	NT	NT	NT	NT	NT	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	04:02	124:01
3410	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
3582	02:05	31:01:02G	40:11	50:02	03:04:01G	06:02:01G	04:07:01G	11:03	NT	NT	NT	03:01:01G	03:02:01G	NT	NT	04:02:01G	03:01:01G	
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	03:01P	
3625	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	NT	NT	03:01	05:05	03:01	03:02	NT	NT	04:02	124:01
4420	02:05	31:01	40:11	50:02	NT	06:02	04:07	11:03	NT	NT	03:01	05:05	NT	03:02	NT	NT	NT	NT
4545	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4585	NT	NT	40:11	50:02	NT	NT	NT	NT	NT	NT	03:01	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	40:11	50:02	NT	NT	04:07	11:03	NT	NT	03:01	NT	03:01	03:02	NT	NT	04:02:01G	124:01
6313	02:05:01	31:01:02	40:11	50:02	03:04:01	06:02:01	04:07:01	11:03:01	NT	NT	03:01	03:01	03:01	03:02	NT	NT	NT	NT
9222	02:05	31:01	NT	NT	NT	NT	04:07	11:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:05	31:01	40:11	50:02	03:04	06:02	04:07	11:03	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	04:02	124:01

**Table 9. Individual laboratory results for DNA # 927 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	NT	NT	
16	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
139	02	31	40	50	03	06	04	11	NT	NT	NT	NT	03	03	NT	NT	04(DP402)	03
142	02	31	40	50	03	06	04	11	3*02	4*01	NT	NT	03	03	NT	NT	NT	NT
144	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	01	01	04(DP402)	124
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	31	40	50	NT	NT	04	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
189	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
190	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
192	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	NT	NT	04(DP402)	124
195	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	01	01	04(DP402)	124
199	NT	NT	NT	NT	NT	NT	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
205	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
207	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	05	03	03	NT	NT	NT	NT
213	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	NT	NT	04(DP402)	124
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
227	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	03
228	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
234	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	NT	NT	04(DP402)	124
239	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	NT	NT
242	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
255	02	31	40	50	NT	NT	04	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
262	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
265	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
266	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	01	01	04(DP402)	124
267	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	NT	NT	NT	NT
268	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
278	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
282	02	31	40	50	03	06	04	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
286	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
288	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
290	02	31	40	50	NT	NT	04	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
293	02	31	40	50	03	06	04	11	3*01	5*01	NT	NT	03	03	NT	NT	NT	NT
294	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	NT	NT	NT	NT
304	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
309	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	01	01	04(DP402)	03
311	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
312	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	01	01	04(DP402)	03
318	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	01	01	04(DP402)	03
324	02	29	40	50	NT	NT	04	11	NT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
402	02	31	40	50	03	06	04	11	NT	NT	NT	NT	03	03	NT	NT	NT	NT

**Table 9. Individual laboratory results for DNA # 927 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
615	02	31	40	50	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	03	05	03	03	01	01	04(DP402)	124
726	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
732	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
805	02	31	40	50	03	06	04	11	3*02	4*01	NT	NT	03	03	NT	NT	04(DP402)	03
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	05	NT	NT	01	01	NT	NT
1212	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	01	01	04(DP402)	124
1251	02	31	40	50	03	06	04	11	NT	NT	NT	NT	03	03	NT	NT	NT	NT
1647	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	03
2063	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	NT	NT
2518	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	01	01	04(DP402)	03
2549	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	NT
3264	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	03
3410	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
3438	02	31	40	50	03	06	04	11	NT	NT	NT	NT	03	03	NT	NT	NT	NT
3582	02	31	40	50	03	06	04	11	3*02	4*01	NT	NT	03	03	NT	NT	NT	NT
3600	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	NT	NT
3614	02	31	40	NT	03	06	NT	11	3*02	NT	NT	05	03	03	01	01	NT	NT
3625	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	NT	NT	04(DP402)	124
3849	NT	NT	NT	NT	NT	NT	04	11	3*02	4*01	NT	NT	03	03	NT	NT	NT	NT
4281	02	31	40	50	03	06	04	11	3*PRESENT	4*PRESENT	03	05	03	03	01	01	04(DP402)	03
4420	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	NT	NT	NT	NT
4551	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	NT	NT	04(DP402)	124
4582	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	03
4585	02	31	40	50	03	06	04	11	NT	NT	03	05	03	03	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	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	NT	NT	NT	NT
6051	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	NT	NT
6313	02	31	40	50	03	06	04	11	NT	NT	03	03	03	03	NT	NT	NT	NT
9221	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	124
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	02	31	40	50	03	06	04	11	3*02	4*01	03	05	03	03	01	01	04(DP402)	03:01:01G

**Table 10. Individual laboratory results for DNA # 928 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
16	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01
134	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01G	03:02:01G	NT	NT	04:02:01	04:02:01
139	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02:01:01	24:02:01	15:15	15:39:01	01:02	03:03	04:04:01	04:04:01	4*01:03	4*01:03	03:01	03:01	03:02	03:02	NT	NT	04:02	04:02
168	02:01:01G	24:02:01G	15:15	15:39:01	NT	NT	04:04:01	04:04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	24:02:01G	15:15	15:39:01	01:02P	03:03P	04:04P	04:04P	4*01:01P	4*01:01P	03:01:01G	03:01:01G	03:02P	03:02P	NT	NT	04:02:01G	04:02:01G
188	02:01	24:02:01:01	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	03:01:01	03:01:01	03:02	03:02	01:03	01:03	04:02	04:02
189	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
192	02:01:01G	24:02	15:15	15:39	01:02:01G	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	NT	NT	04:02	04:02
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	NT	NT	NT	NT	NT	04:02	04:02
205	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	NT	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01
207	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	NT	NT	04:02	04:02
213	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	NT	NT	04:02	04:02
218	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	NT	NT
227	02:01:01:01	24:02:01:01	15:15	15:39	01:02:01	03:03:01	04:04	04:04	4*01:03	4*01:03	03:01:01	03:01:01	03:02:01	03:02:01	01:03	01:03	04:02	04:02
234	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	04:02	04:02
258	02:01:01	24:02:01:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	NT	NT	NT	NT	03:02	03:02	NT	NT	04:02:01	04:02:01
264	02:01:01G	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01
294	02:01P	24:02P	15:15	15:39	01:02P	03:03P	04:04	04:04	NT	NT	03:01	03:01P	NT	NT	NT	NT	NT	NT
403	02:01:01	24:02:01:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	NT	NT	NT	NT	03:02:01G	03:02:01G	NT	NT	04:02:01	04:02:01
452	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01
615	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
702	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03	4*01:03	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01
726	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
732	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
805	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
1113	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	NT	NT	03:02	03:02	NT	NT	04:02	04:02
1212	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	NT	NT	04:02	04:02
1251	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	NT	NT	NT	NT	03:02:01	03:02:01	NT	NT	NT	NT
1647	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03P	01:03P	04:02	04:02
2063	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01
3264	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3325	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
3614	NT	NT	NT	NT	NT	NT	NT	NT	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
4551	02:01	24:02	15:15	15:39	01:02	03:03	04:04	NT	4*01:03	NT	03:01	NT	03:02	NT	NT	NT	04:02	NT
4582	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
4709	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	NT	NT	04:02	04:02
5451	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01	03:02:01	NT	NT	NT	NT
45452	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01

Final Consensus based on High Resolution	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
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**Table 11. Individual laboratory results for DNA # 928 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01G	24:02:01G	15:15	15:39	01:02:01G	03:03:01G	04:04	04:04	4*01:01:01G	4*01:01:01G	03:01	03:01:01G	03:02	03:02	NT	NT	04:02:01G	04:02:01G
124	02:01:01:01	24:02:01:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01
138	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	04:02	04:02
144	02:01:01G	24:02P	15:15	15:39:01	01:02	03:03:01	04:04:01	04:04:01	NT	NT	03:01:01G	03:01:01G	03:02:01	03:02:01	01:03:01G	01:03:01G	04:02	04:02
148	02:01P	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03:01	NT	NT	NT	03:02	03:02	NT	NT	04:02P	04:02P
151	02:01:01G	24:02:01G	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	04:02	04:02
155	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	NT	NT
162	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	NT	NT
173	02:01	24:02	15:01	15:02	01:02	03:03	04:04	04:04	NT	NT	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
174	02:01:01G	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	NT	NT
176	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	NT	NT
190	02:01:01:01	24:02:01:01	15:15	15:39:01	01:02:01:01	03:03:01:01	04:04:01	04:04:01	NT	NT	NT	NT	03:02:01	03:02:01	NT	NT	NT	NT
193	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	NT	NT
209	02:01	24:02	15:15	15:39:01	01:02	03:03	04:04	04:04	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	04:02P
239	NT	NT	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02P	04:02P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
249	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	4*01:03:01	4*01:03:01	03:01:01	03:01:01	03:02:01	03:02:01	01:03:01	01:03:01	04:02:01	04:02:01
262	02:01	NT	NT	NT	NT	NT	04:04	04:04	NT	NT	03:01	03:01	03:02	03:02	NT	NT	NT	NT
267	02:01	24:02	15:01	15:02	01:02	03:03	04:04	04:04	4*01:01	4*01:01	03:01	03:01	03:02	03:02	NT	NT	NT	NT
278	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	NT	NT
292	02:01	24:02	15:01	15:02	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	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	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	04:02	04:02
313	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	04:04	04:04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	24:02	15:01	15:02	01:02	03:04	04:04	04:04	4*01:01	4*01:01	03:01	03:01	03:02	03:11	01:03	01:03	04:02	04:02
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01P	24:02P	15:15	15:39	01:02	03:03	04:04	04:04	4*01:01P	4*01:01P	NT	NT	03:02	03:02	NT	NT	04:02	04:02
1189	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	NT	NT	03:02	03:02	NT	NT	04:02	04:02
1498	02:01:01G	24:02:01G	15:15	15:39	01:02:01G	03:03:01G	04:04:01	04:04:01	4*01:03	4*01:03	03:01	03:01	03:02:01	03:02:01	NT	NT	04:02:01	04:02:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	04:02	04:02
2549	02:01:01G	24:02:01G	15:15	15:39	01:02:01G	03:03:01G	04:04	04:04	NT	NT	03:01	03:01	03:02	03:02	NT	NT	NT	NT
2862	02:01:01	24:02:01:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	NT	NT	NT	NT	03:02:01	03:02	NT	NT	NT	NT
3261	NT	NT	NT	NT	NT	NT	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	04:02	04:02
3410	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	03:02	03:02	NT	NT	NT	NT
3582	02:01:01G	24:02:01G	15:15	15:39	01:02:01G	03:03:01G	04:04	04:04	4*01:01:01G	4*01:01:01G	NT	NT	03:02:01G	03:02:01G	NT	NT	04:02:01G	04:02:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	04:02P
3625	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	03:01	03:01	03:02	03:02	NT	NT	04:02	04:02
4420	02:01	NT	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	03:01	03:01	03:02	03:02	NT	NT	NT	NT
4545	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	NT	03:02	03:02	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	04:04	04:04	NT	NT	03:01	NT	03:02	03:02	NT	NT	04:02	04:02
6313	02:01:01	24:02:01	15:15	15:39:01	01:02:01	03:03:01	04:04:01	04:04:01	NT	NT	03:01	03:01	03:02:01	03:02:01	NT	NT	NT	NT
9222	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	24:02	15:15	15:39	01:02	03:03	04:04	04:04	4*01:03	4*01:03	03:01	03:01	03:02	03:02	01:03	01:03	04:02	04:02

**Table 12. Individual laboratory results for DNA # 928 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	NT	NT	
16	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
139	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
142	02	24	15	15	01	03	04	04	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
144	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	24	15	15	NT	NT	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
189	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
190	02	24	15	15	01	03	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
192	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	NT	NT	04(DP402)	04(DP402)
195	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
199	NT	NT	NT	NT	NT	NT	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
205	02	24	15	15	01	03	04	04	4*01	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
207	02	24	15	15	01	03	04	04	4*PRESENT	4*PRESENT	03	03	03	03	01	01	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	03	03	03	NT	NT	NT	NT
213	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	NT	NT	04(DP402)	04(DP402)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
227	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
228	02	24	15	15	01	03	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
234	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	NT	NT	04(DP402)	04(DP402)
239	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
255	02	24	15	15	NT	NT	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	24	15	15	01	03	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
262	02	24	15	15	01	03	04	04	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
265	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
266	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
267	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	NT	NT	NT	NT
268	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
278	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
282	02	24	15	15	01	03	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
286	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
288	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
290	02	24	15	15	NT	NT	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
293	02	24	15	15	03	03	04	04	4*01	NP	NT	NT	03	03	NT	NT	NT	NT
294	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	NT	NT	NT	NT
304	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
309	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
318	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
324	NT	24	15	NT	NT	NT	04	NT	NT	NT	NT	03	NT	NT	NT	NT	NT	NT
402	02	24	15	15	01	03	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT

**Table 12. Individual laboratory results for DNA # 928 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
615	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	02	24	15	15	01	03	04	04	4*PRESENT	4*PRESENT	03	03	03	03	01	01	04(DP402)	04(DP402)
726	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
732	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
805	02	24	15	15	01	03	04	04	4*01	4*01	NT	NT	03	03	NT	NT	04(DP402)	04(DP402)
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1212	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
1251	02	24	15	15	01	03	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
1647	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
2549	02	24	15	15	01	03	04	04	4*01	NT	03	03	03	03	01	01	04(DP402)	04(DP402)
3264	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
3410	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
3438	02	24	15	15	01	03	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
3582	02	24	15	15	01	03	04	04	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
3600	02	24	15	15	01	03	04	04	4*01	NP	03	03	03	03	01	01	NT	NT
3614	02	24	15	15	01	03	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3625	02	24	15	15	01	03	04	04	4*01	NT	03	03	03	03	NT	NT	04(DP402)	04(DP402)
3849	NT	NT	NT	NT	NT	NT	04	04	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
4281	02	24	15	15	01	03	04	04	4*PRESENT	NP	03	03	03	03	01	01	04(DP402)	04(DP402)
4420	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
4551	02	24	15	15	01	03	04	NT	4*01	NT	03	NT	03	NT	NT	NT	04(DP402)	NT
4582	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)
4585	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	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	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	NT	NT	NT	NT
6051	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	NT	NT
6313	02	24	15	15	01	03	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
9221	02	24	15	15	01	03	04	NT	4*01	NT	03	NT	03	NT	01	NT	04(DP402)	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	02	24	15	15	01	03	04	04	4*01	4*01	03	03	03	03	01	01	04(DP402)	04(DP402)



**Table 13. Individual laboratory results for DNA # 929 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
16	02:01:01	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02G	09:01:02G	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:01	05:01:01	
134	02:01:01	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02G	09:01:02G	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	NT	NT	02:02:01	05:01:01
139	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02:01:01	24:02:01	40:06	46:01:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03:02	03:03:02	NT	NT	02:02	05:01
168	02:01:01G	24:02:01G	40:06:01G	46:01:01	NT	NT	09:01:02G	09:01:02G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	24:02:01G	40:06:01G	46:01:01G	01:02:01G	08:01:01G	09:01P	09:01P	4*01:01P	4*01:01P	03:01:01G	03:01:01G	03:03P	03:03P	NT	NT	02:02:01G	05:01:01G
188	02:01	24:02:01:01	40:06	46:01	01:02	08:01	09:01P	09:01P	NT	NT	03:02:01	03:02:01	03:03	03:03	02:02	02:02	02:02	05:01
189	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
192	02:01:01G	24:02	40:06	46:01	01:02:01G	08:01:01G	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	NT	NT	02:02	05:01
195	02:01:01:01	24:02:01:01	40:06:01	46:01:01	01:02:01:01	08:01:01	09:01P	09:01P	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:02	02:02:01	05:01:01
205	02:01:01	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02	09:01:02	4*01:03:01	NT	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:02	02:02:01	05:01:01
207	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	NT	NT	02:02	05:01
213	02:01	24:02	40:06	46:01	01:02	08:01	09:01P	09:01P	4*01:03	4*01:03	03:02	03:02	03:03	03:03	NT	NT	02:02	05:01
218	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
227	02:01:01:01	24:02:01:01	40:06:01:01	46:01	01:02:01	08:01:01	09:01:02	09:01:02	4*01:03	4*01:03	03:02	03:02	03:03:02	03:03:02	02:02	02:02	02:02	05:01
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	02:01:01	24:02:01:01	40:06:01:01	46:01:01	01:02:01	08:01:01	09:01:02G	09:01:02G	NT	NT	NT	NT	03:03:02	03:03:02	NT	NT	02:02:01	05:01:01
264	02:01:01G	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02	09:01:02	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:02	02:02:01	05:01:01
294	02:01P	24:02	40:06	46:01	01:02	08:01	09:01P	09:01P	NT	NT	03:02	03:02	03:03	03:03	NT	NT	02:02	05:01
403	02:01:01	24:02:01:01	40:06:01:01	46:01:01	01:02:01	08:01:01	09:01:02	09:01:02G	NT	NT	NT	NT	03:03:02	03:03:02	NT	NT	02:02:01	05:01:01
452	02:01:01	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02	09:01:02	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:02	02:02:01	05:01:01
615	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
702	02:01:01	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02	09:01:02	4*01:03	4*01:03	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:02	02:02:01	05:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	05:01P
732	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
805	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01:02G	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
1113	02:01	24:02	40:06	46:01	01:02	08:01	09:01P	09:01P	4*01:03	4*01:03	03:02	03:02	03:03	03:03	NT	NT	02:02	05:01
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	05:01
1647	02:01	24:02	40:06	46:01	01:02	08:01	09:01P	09:01P	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02:01	05:01:01
3264	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3325	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
3614	02:01	24:02	40:06	46:01	01:02	08:01	NT	NT	4*01:03	4*01:03	NT	NT	03:03	03:03	02:02	02:02	02:02	05:01
4551	02:01	24:02	40:06	46:01	01:02	08:01	09:01:02G	NT	4*01:03	4*01:03	03:02	NT	03:03	NT	NT	NT	02:02	05:01
4582	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:02	03:01:01G	NT	NT	NT	NT	02:02	05:01
5451	02:01:01	24:02:01	40:06:01:01	46:01:01	01:02:01	08:01:01	09:01:02	09:01:02	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	NT	NT	NT	NT
45452	02:01:01	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02G	09:01:02G	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:02	02:02:01	05:01:01

Final Consensus based on High Resolution	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
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**Table 14. Individual laboratory results for DNA # 929 High Resolution**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
7	02:01:01G	24:02:01G	40:06	46:01	01:02:01G	08:01:01G	09:01:02G	09:01:02G	4*01:01:01G	4*01:01:01G	03:01:01G	03:01:01G	03:03	03:03	NT	NT	02:02	05:01:01G
124	02:01:01:01	24:02:01:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02G	09:01:02G	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:02	02:02:01	05:01:01
138	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	02:02	05:01
144	02:01:01G	24:02P	40:06	46:01:01	01:02:01	08:01:01	09:01P	09:01P	NT	NT	03:02	03:02	03:03:02	03:03:02	02:02	02:02	02:02	05:01
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	02:01:01G	24:02:01G	40:06	46:01	01:02	08:01	09:01:02G	09:01:02G	NT	NT	NT	NT	03:03	03:03	NT	NT	02:02	05:01
155	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
162	02:01	24:02	40:06	46:01:01G	01:02	08:01	09:01:02	09:01:02	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
173	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01
174	02:01:01G	24:02	40:06	46:01	01:02	08:01:01G	09:01:02	09:01:02	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
176	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
190	02:01:01:01	24:02:01:01	40:06:01:01	46:01:01	01:02:01:01	08:01:01	09:01:02	09:01:02	NT	NT	NT	NT	03:03:02:01	03:03:02:01	NT	NT	NT	NT
193	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
209	02:01	24:02	40:06:01G	46:01:01G	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:01P	03:01P	03:03	03:03	NT	NT	02:02P	05:01P
239	NT	NT	40:06	46:01	01:02	NT	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02P	05:01P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
249	02:01:01	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02	09:01:02	4*01:03:01	4*01:03:02	03:02:01	03:02:01	03:03:02	03:03:02	02:02:02	02:02:02	02:02:01	05:01:01
262	02:01	NT	NT	NT	NT	NT	09:01	09:01	NT	NT	03:02	03:02	03:03	03:03	NT	NT	NT	NT
267	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:02	4*01:01	4*01:01	03:02	03:02	03:02	03:03	NT	NT	NT	NT
278	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:02	03:03	02:02	02:02	02:02	05:01
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
292	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	02:02	05:01
313	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	09:01	09:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:01	4*01:01	03:02	03:02	03:03	03:03	02:02	02:02	02:01	05:01
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01P	24:02P	40:06	46:01	01:02P	08:01	09:01P	09:01P	4*01:01P	4*01:01P	NT	NT	03:03	03:03	NT	NT	02:02	05:01P
1189	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	NT	NT	03:03	03:03	NT	NT	02:02	05:01
1498	02:01:01G	24:02:01G	40:06	46:01	01:02:01G	08:01:01G	09:01:02G	09:01:02G	4*01:03	4*01:03	03:02:01	03:02:01	03:03:02	03:03:02	NT	NT	02:02	05:01:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	02:02	02:02	05:01
2549	02:01:01G	24:02:01G	40:06	46:01	01:02:01G	08:01	09:01:02G	09:01:02G	NT	NT	03:01:01G	03:01:01G	03:03	03:03	NT	NT	NT	NT
2862	02:01:01	24:02:01:01	40:06:01:01	46:01:01	01:02:01	08:01:01	09:01:02	NT	NT	NT	NT	03:03:02	03:03:02	NT	NT	NT	NT	NT
3261	NT	NT	NT	NT	NT	NT	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	02:02	05:01
3410	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
3582	02:01:01G	24:02:01G	40:06	46:01	01:02:01G	08:01:01G	09:01:02G	09:01:02G	4*01:01:01G	4*01:01:01G	NT	NT	03:03:02G	03:03:02G	NT	NT	02:02:01G	05:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02P	05:01P
3625	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	03:02	03:02	03:03	03:03	NT	NT	02:02	05:01
4420	02:01	NT	40:06	46:01	01:02	08:01	09:01	09:01	NT	NT	03:02	03:02	03:03	03:03	NT	NT	02:02	05:01
4545	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	09:01	09:01	NT	NT	NT	NT	03:03	03:03	NT	NT	02:02	05:01:01G
6313	02:01:01	24:02:01	40:06:01	46:01:01	01:02:01	08:01:01	09:01:02	09:01:02	NT	NT	NT	NT	03:03	03:03	NT	NT	NT	NT
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	24:02	40:06	46:01	01:02	08:01	09:01	09:01	4*01:03	4*01:03	03:02	03:02	03:03	03:03	02:02	02:02	02:02	05:01

**Table 15. Individual laboratory results for DNA # 929 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02	02	NT	NT		
16	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
138	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
139	02	24	40	46	01	08	09	NT	NT	NT	NT	NT	NT	03	NT	NT	NT	02(DP202)	05
142	02	24	40	46	01	08	09	09	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT	NT
144	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	02	02	02(DP202)	05	
147	02	24	40	46	01	08	09	09	4*01	NT	03	03	03	03	NT	NT	02(DP202)	05	
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	24	40	46	NT	NT	09	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
189	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
190	02	24	40	46	01	08	09	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT	NT
192	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	NT	NT	02(DP202)	05	
195	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
199	NT	NT	NT	NT	NT	NT	09	09	4*PRESENT	4*PRESENT	NT	NT	03	04	NT	NT	NT	NT	NT
205	02	24	40	46	01	08	09	09	4*01	NT	03	03	03	03	02	02	02(DP202)	05	
207	02	24	40	46	01	08	09	09	4*PRESENT	4*PRESENT	03	03	03	03	02	02	NT	NT	NT
209	02	24	40	46	01	08	09	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT	NT
213	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	NT	NT	02(DP202)	05	
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
227	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
228	02	24	40	46	01	08	09	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT	NT
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
255	02	24	40	46	NT	NT	09	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	24	40	46	01	08	09	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT	NT
262	02	24	40	46	01	08	09	09	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT	NT
265	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
266	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	02	02	02(DP202)	05	
267	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	NT	NT	NT	NT	NT
268	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT	NT
278	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
282	02	24	40	46	01	08	09	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT	NT
286	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT	NT
288	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT	NT
290	02	24	40	46	NT	NT	09	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT	NT
293	02	24	40	46	01	08	09	09	4*01	NP	NT	NT	03	03	NT	NT	NT	NT	NT
294	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	NT	NT	02(DP202)	05	
304	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT	NT
309	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	02	02	02(DP202)	05	
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05	
313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	02	02	02(DP202)	05	
318	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	02	02	02(DP202)	05	
324	02	24	40	46	NT	NT	09	NT	NT	NT	NT	NT	03	NT	NT	NT	NT	NT	NT
402	02	24	40	46	01	08	09	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT	NT

**Table 15. Individual laboratory results for DNA # 929 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
615	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	02	24	40	46	01	08	09	09	4*PRESENT	4*PRESENT	03	03	03	03	02	02	02(DP202)	05
726	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05
732	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05
805	02	24	40	46	01	08	09	09	4*01	4*01	NT	NT	03	03	NT	NT	02(DP202)	05
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1212	02	24	40	46	NT	NT	09	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
1251	02	24	40	46	01	08	09	09	NT	NT	NT	NT	03	03	NT	NT	02(DP202)	05
1647	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05
2063	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	NT	NT
2518	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	02	02	02(DP202)	05
2549	02	24	40	46	01	08	09	09	4*01	NT	03	03	03	03	02	02	02(DP202)	05
3264	02	24	40	46	NT	NT	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT
3410	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT
3438	02	24	40	46	01	08	09	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
3582	02	24	40	46	01	08	09	09	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
3600	02	24	40	46	01	08	09	09	4*01	NT	03	03	03	03	02	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	09	09	NT	NT	03	03	NT	NT	NT	NT	NT	NT
3625	02	24	40	46	01	08	09	09	4*01	NT	03	03	03	03	NT	NT	02(DP202)	05
3849	NT	NT	NT	NT	NT	NT	09	09	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
4281	02	24	40	46	01	08	09	09	4*PRESENT	NP	03	03	03	03	02	02	02(DP202)	05
4420	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	02(DP202)	05
4551	02	24	40	46	01	08	09	NT	4*01	NT	03	NT	03	NT	NT	NT	02(DP202)	05
4582	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05
4585	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT
4709	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05
5451	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	NT	NT	NT	NT
6051	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	NT	NT
6313	02	24	40	46	01	08	09	09	NT	NT	03	03	03	03	NT	NT	NT	NT
9221	02	24	40	46	01	08	09	NT	4*01	NT	03	NT	03	NT	02	NT	02(DP202)	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	02	24	40	46	01	08	09	09	4*01	4*01	03	03	03	03	02	02	02(DP202)	05

**Table 16. Individual laboratory results for DNA # 930 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
16	29:02:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
139	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P
158	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	NT	NT	04:01	04:02
168	29:02:01G	32:01:01G	44:02:01G	44:02:01G	NT	NT	04:01:01	15:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	29:02:01G	32:01:01G	44:02:01G	44:02:01G	07:04:01G	07:04:01G	04:01P	15:01P	4*01:01P	5*01:01P	01:02:01G	03:01:01G	03:01P	06:02P	NT	NT	04:01:01G	04:02:01G
188	29:02:01:01	32:01:01	44:02P	44:02P	07:04	07:04	04:01	15:01	NT	NT	01:02	03:03:01:01	03:01	06:02	01:03	01:03	04:01P	04:02P
189	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01	04:02
192	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	NT	NT	04:01	04:02
195	29:02:01:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01:01	4*01:03:01	5*01:01:01	01:02:01:01	03:03:01:01	03:01:01	06:02:01:01	01:03:01:04	01:03:01:05	04:01:01:01	04:02:01
205	29:02:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:02:01
207	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	01:02	03:03	03:01	06:02	NT	NT	04:01	04:02
213	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	NT	NT	04:01	04:02
218	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
227	29:02:01	32:01	44:02:01:01	44:02:01:01	07:04:01	07:04:01	04:01	15:01:01	4*01:03	5*01:01:01	01:02:01	03:03	03:01:01	06:02	01:03	01:03	04:01:01G	04:02:01G
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	29:02:01:01	32:01:01	44:02:01:01	44:02:01:01	07:04:01	07:04:01	04:01:01	15:01:01	NT	NT	NT	NT	03:01:01G	06:02:01:01	NT	NT	04:01:01G	04:02:01G
264	29:02:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G
294	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	01:02	03:03	03:01	06:02	NT	NT	04:01P	04:02P
403	29:02:01:01	32:01:01	44:02:01:01	44:02:01:01	07:04:01	07:04:01	04:01:01	15:01:01	NT	NT	NT	NT	03:01:01G	06:02:01:01	NT	NT	04:01:01G	04:02:01G
452	29:02:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:02:01
615	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01	04:02
702	29:02:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03	5*01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:02:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
732	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01	04:02
805	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:01:01G	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01:01G	04:02:01G
1113	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	NT	NT	04:01P	04:02P
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	04:02
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2063	29:02:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:02:01
3264	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3325	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01:01G	04:02:01G
3614	29:02	32:01	44:02:01G	44:02:01G	07:04	07:04	04:01	15:01	4*01:03	NT	01:02	03:01:01G	03:01	06:02	01:03	01:03	04:01:01G	04:02:01G
4551	29:02:01G	32:01:01G	44:02:01G	44:02:01G	07:04:01G	07:04:01G	04:01:01	15:01:01G	4*01:03	5*01:01:01	01:02:01G	03:01:01G	03:01:01G	06:02:01G	NT	NT	04:01:01G	04:02:01G
4582	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01:01G	04:02:01G
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	03:03	NT	NT	NT	NT	04:01:01G	04:02:01G
5451	29:01:01:01	32:01:01	44:02:01:01	44:02:01:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	NT	NT	NT	NT
45452	29:02:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G

Final Consensus based on High Resolution	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01:01G	04:02:01G
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**Table 17. Individual laboratory results for DNA # 930 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	29:02:01G	32:01:01G	44:02:01G	44:02:01G	07:04:01G	07:04:01G	04:01	15:01	4*01:01:01G	5*01:01:01G	01:02:01G	03:01:01G	03:01	06:02	NT	NT	04:01:01G	04:02:01G
124	29:02:01:01	32:01:01	44:02:01:01	44:02:01:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G
138	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01	04:02
144	29:02	32:01:01	44:02:01:01	44:02:01:01	07:04P	07:04P	04:01:01	15:01:01	NT	NT	01:02:01G	03:01:01G	03:01:01	06:02:01	01:03:01G	01:03:01G	04:01	04:02
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	29:02:01G	32:01:01G	44:02:01G	44:02:01G	07:04:01G	07:04:01G	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01:01G	04:02:01G
155	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
162	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	NT	NT
173	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	01:02	03:03	03:01	06:02	01:03	01:03	04:01	04:02
174	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
176	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
190	29:02:01:01	32:01:01	44:02:01:01	44:02:01:01	07:04:01	07:04:01	04:01:01	15:01:01:01	NT	NT	NT	NT	03:01:01:01	06:02:01:01	NT	NT	NT	NT
193	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
209	29:02	32:01	44:02:01G	44:02:01G	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	NT	NT	04:01P	04:02P
239	29:02	32:01	NT	NT	07:04	07:04	NT	NT	4*01:03	NT	01:02	03:03	NT	NT	NT	NT	04:01P	04:02P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
249	29:02:01	32:01:01	44:02:01	44:02:01	07:04:01	07:04:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:02:01
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	29:01	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:01	5*01:01	01:02	03:01	03:01	06:02	NT	NT	NT	NT
278	29:01	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01	04:02
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
292	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	03:03	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	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	04:01	15:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	29:01	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:01	03:01	06:02	01:03	01:03	04:01	04:02
402	NT	NT	NT	NT	NT	NT	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
769	29:02P	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	NT	NT	03:01	06:02	NT	NT	04:01:01G	04:02P
1189	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	NT	NT	03:01	06:02	NT	NT	04:01:01G	04:02:01G
1498	29:02	32:01	44:02:01G	44:02:01G	07:04:01G	07:04:01G	04:01:01	15:01:01	4*01:03	5*01:01	01:02	03:03	03:01:01	06:02:01	NT	NT	04:01:01	04:02:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	04:01	04:02
2549	29:02:01G	32:01:01G	44:02	44:02	07:04:01G	07:04:01G	04:01	15:01:01G	NT	NT	NT	03:01:01G	NT	NT	NT	NT	NT	NT
2862	29:02:01:01	32:01:01	44:02:01:01	44:02:01:01	07:04:01	07:04:01	04:01:01	15:01:01	NT	NT	NT	NT	03:01:01	06:02:01:01	NT	NT	NT	NT
3261	NT	NT	NT	NT	NT	NT	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01	04:02
3410	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
3582	29:02:01G	32:01:01G	44:02:01G	44:02:01G	07:04:01G	07:04:01G	04:01	15:01:01G	4*01:01:01G	5*01:01:01G	NT	NT	03:01:01G	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	04:02P
3625	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	NT	NT	01:02	03:03	03:01	06:02	NT	NT	04:01	04:02
4420	29:02	32:01	44:02	44:02	07:04	07:04	04:01	NT	NT	NT	01:02	03:03	NT	06:02	NT	NT	NT	NT
4545	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01:01G	04:02:01G
6313	NT	NT	NT	NT	NT	NT	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
Final Consensus	29:02	32:01	44:02	44:02	07:04	07:04	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	01:03	04:01:01G	04:02:01G

**Table 18. Individual laboratory results for DNA # 930 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	NT	NT
16	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
134	29	32	44	44	07	07	04	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	04(DP402)
138	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
139	29	32	44	NT	07	NT	04	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	04(DP402)
142	29	32	44	44	07	07	04	15	4*01	5*01	NT	NT	03	06	NT	NT	NT	NT
144	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
147	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	NT	NT	04(DP401)	04(DP402)
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	29	32	44	44	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
189	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
190	29	32	44	44	07	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
192	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	NT	NT	04(DP401)	04(DP402)
195	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
199	NT	NT	NT	NT	NT	NT	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
205	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
207	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
209	29	32	44	44	07	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
213	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	NT	NT	04(DP401)	04(DP402)
215	29	32	44	NT	07	NT	04	15	4*PRESENT	5*PRESENT	NT	NT	NT	NT	NT	NT	NT	NT
226	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
227	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
228	29	32	44	44	07	07	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	29	32	44	44	07	07	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
255	29	32	44	44	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	29	32	44	44	07	07	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	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
266	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
267	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	NT	NT	NT	NT
268	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
278	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
282	32	32	44	44	07	07	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
286	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
288	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
290	29	32	44	44	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
293	29	29	44	44	07	16	04	15	4*01	5*01	NT	NT	03	06	NT	NT	NT	NT
294	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	NT	NT	04(DP401)	04(DP402)
304	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
309	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
311	29	32	44	44	07	07	04	15	4*PRESENT	5*PRESENT	01	03	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
313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
318	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
324	29	32	44	NT	NT	NT	04	15	NT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
402	29	32	44	44	07	07	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT

**Table 18. Individual laboratory results for DNA # 930 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
615	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	29	32	44	44	07	07	04	15	4*PRESENT	5*PRESENT	01	03	03	06	01	01	04(DP401)	04(DP402)
726	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
732	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
805	29	32	44	44	07	07	04	15	4*01	5*01	NT	NT	03	06	NT	NT	04(DP401)	04(DP402)
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1212	29	32	44	44	NT	NT	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
1251	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
1647	29	32	44	44	07	07	04	15	4*PRESENT	5*PRESENT	01	03	03	06	01	01	04(DP401)	04(DP402)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
2549	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
3264	29	32	44	44	NT	NT	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
3410	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
3438	29	32	44	44	07	07	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
3582	29	32	44	44	07	07	04	15	4*01	5*01	NT	NT	03	06	NT	NT	NT	NT
3600	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3625	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	NT	NT	04(DP401)	04(DP402)
3849	NT	NT	NT	NT	NT	NT	04	15	4*01	5*01	NT	NT	03	06	NT	NT	NT	NT
4281	29	32	44	44	07	07	04	15	4*PRESENT	5*PRESENT	01	03	03	06	01	01	04(DP401)	04(DP402)
4420	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
4551	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
4582	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
4585	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
4709	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	04(DP401)	04(DP402)
5451	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	NT	NT	NT	NT
6051	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
6313	29	32	44	44	07	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
9221	29	32	44	NT	07	NT	04	15	4*01	5*PRESENT	01	03	03	06	01	NT	04(DP401)	04(DP402)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	29	32	44	44	07	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)



**Table 19. Individual laboratory results for DNA # 931 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1	DQB1		DPA1		DPB1			
16	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
139	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
147	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	NT	NT	04:01	05:01
158	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02	5*01:01	01:02	05:05	03:01:01	06:02:01	NT	NT	04:01	05:01
168	02:01:01G	25:01:01G	18:01:01G	56:01:01G	NT	NT	11:01:01G	15:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	25:01:01G	18:01:01G	56:01:01G	07:02P	12:03P	11:01P	15:01P	3*02:02P	5*01:01P	01:02:01G	05:01:01G	03:01P	06:02P	NT	NT	04:01:01G	05:01:01G
188	02:01	25:01:01	18:01P	56:01P	07:02	12:03:01:01	11:01	15:01	NT	NT	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
189	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
192	02:01:01G	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	NT	NT	04:01	05:01
195	NT	25:01	NT	56:01	NT	12:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	05:01
205	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
207	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	01:02	05:05	03:01	06:02	NT	NT	04:01	05:01
213	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	NT	NT	04:01	05:01
218	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
227	02:01:01:01	25:01:01	18:01:01	56:01	07:02	12:03:01	11:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05	03:01:01	06:02	01:03	02:02	04:01:01	05:01
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01:01	11:01:01	15:01:01	NT	NT	NT	NT	03:01:01	06:02:01:01	NT	NT	04:01:01	05:01:01
264	02:01:01G	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
403	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01:01	11:01:01	15:01:01	NT	NT	NT	NT	03:01:01	06:02:01:01	NT	NT	04:01:01	05:01:01
452	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
615	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
702	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02	5*01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
732	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
805	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
1212	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	NT	NT	04:01	05:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	02:02	04:01	05:01
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2063	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
3264	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01	01:02:01	05:05:01	03:01:01	06:02:01	NT	NT	04:01:01	05:01:01
3325	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	03:01	01:03	02:02	04:01	05:01
3614	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
4551	02:01:01G	25:01:01G	18:01:01G	56:01:01G	07:02:01G	12:03:01G	11:01:01G	15:01:01G	3*02:02:01:01	5*01:01:01	01:02:01G	05:01:01G	03:01:01G	06:02:01G	NT	NT	04:01:01G	05:01:01G
4582	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	05:01
5451	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	NT	NT	NT	NT
45452	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01

Final Consensus based on High Resolution	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
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**Table 20. Individual laboratory results for DNA # 931 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01G	25:01	18:01:01G	56:01:01G	07:02:01G	12:03:01G	11:01	15:01	3*02:02:01G	5*01:01:01G	01:02:01G	05:01:01G	03:01	06:02	NT	NT	04:01:01G	05:01:01G
124	02:01:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
138	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01	05:01
144	02:01:01G	25:01:01	18:01	56:01:01G	07:02P	12:03P	11:01:01	15:01:01	NT	NT	01:02:01G	05:01:01G	03:01:01	06:02:01	01:03:01G	02:02	04:01	05:01
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	02:01:01G	25:01:01G	18:01:01G	56:01:01G	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01:01G	05:01:01G
155	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
162	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	NT	NT
173	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
174	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
176	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
190	02:01:01:01	25:01:01	18:01:01:01	56:01:01	07:02:01G	12:03:01:01	11:01:01	15:01:01:01	NT	NT	NT	NT	03:01:01:01	06:02:01:01	NT	NT	NT	NT
193	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	25:01	NT	56:01	07:02	12:03	NT	NT	NT	NT	01:02	NT	NT	NT	NT	NT	04:01P	05:01P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	05:05:01	NT	NT	NT	NT	NT	NT
249	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01	11:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:01	25:01	18:01	56:01	07:02	12:03	11:04	15:01	3*02:02	5*01:01	01:02	05:01	03:01	06:02	NT	NT	NT	NT
278	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
292	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	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	11:01	15:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01P	25:01	18:01P	56:01	07:02	12:03	11:01	15:01	3*02:02:01G	5*01:01	NT	NT	03:01	06:02	NT	NT	04:01	05:01P
1189	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	NT	NT	03:01	06:02	NT	NT	04:01	05:01
1498	02:01:01G	25:01	18:01:01G	56:01	07:02:01G	12:03:01G	11:01:01	15:01:01	3*02:02	5*01:01	01:02	05:05:01	03:01:01	06:02:01	NT	NT	04:01	05:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	02:02	04:01	05:01	
2549	02:01:01G	25:01	18:01:01G	56:01:01G	07:02:01G	12:03:01G	11:01:01G	15:01:01G	NT	NT	NT	05:01:01G	NT	NT	NT	NT	NT	NT
2862	02:01:01	25:01:01	18:01:01	56:01:01	07:02:01	12:03:01:01	11:01:01	15:01:01	NT	NT	NT	NT	03:01:01	06:02:01:01	NT	NT	NT	NT
3261	NT	NT	NT	NT	NT	NT	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01	05:01
3410	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
3582	02:01:01G	25:01:01G	18:01:01G	56:01:01G	07:02:01G	12:03:01G	11:01:01G	15:01:01G	3*02:02:01G	5*01:01:01G	NT	NT	03:01:01G	06:02:01G	NT	NT	04:01:01G	05:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
3625	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	NT	NT	01:02	05:05	03:01	06:02	NT	NT	04:01	05:01
4420	02:01	25:01	18:01	56:01	07:02	12:03	11:01	NT	NT	NT	01:02	05:05	NT	06:02	NT	NT	NT	05:01
4545	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4585	NT	NT	18:01	56:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	11:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01:01G	05:01:01G
6313	NT	NT	NT	NT	NT	NT	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
Final Consensus	02:01	25:01	18:01	56:01	07:02	12:03	11:01	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	02:02	04:01	05:01

**Table 21. Individual laboratory results for DNA # 931 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	02	NT	NT	
16	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
134	02	25	18	56	07	12	11	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	05
138	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
139	02	25	18	56	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
142	02	25	18	56	07	12	11	15	3*02	5*01	NT	NT	03	06	NT	NT	NT	NT
144	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	01	02	04(DP401)	05
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	02	25	18	56	07	12	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
152	02	25	18	56	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
189	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
190	02	25	18	56	07	12	11	15	3*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
192	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	NT	NT	04(DP401)	05
195	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
199	NT	NT	NT	NT	NT	NT	11	15	3*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
205	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
207	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	NT	NT	04(DP401)	05
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
227	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
228	02	25	18	56	07	12	11	15	3*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	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	NT	NT
242	02	25	18	56	07	12	11	15	3*PRESENT	5*PRESENT	01	05	03	06	NT	NT	NT	NT
255	02	25	18	56	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	25	18	56	07	12	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	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
266	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	01	02	04(DP401)	05
267	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	NT	NT	NT	NT
268	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
278	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
282	02	25	18	56	07	12	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
286	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
288	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NEW	NT	NT	NT
290	02	25	18	56	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
293	02	25	18	56	07	12	11	14	3*01	5*01	NT	NT	03	06	NT	NT	NT	NT
294	02	25	18	56	07	12	11	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	05
304	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
309	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	01	02	04(DP401)	05
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	01	02	04(DP401)	05
318	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	01	02	04(DP401)	05
324	02	25	18	55	NT	NT	11	15	NT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
402	02	25	18	56	07	12	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT

**Table 21. Individual laboratory results for DNA # 931 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
615	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	02	25	18	56	07	12	11	15	3*PRESENT	5*PRESENT	01	05	03	06	01	02	04(DP401)	05
726	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
732	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
805	02	25	18	56	07	12	11	15	3*02	5*01	NT	NT	03	06	NT	NT	04(DP401)	05
1113	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	NT	NT
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	01	02	04(DP401)	05
1647	02	25	18	56	07	12	11	15	3*PRESENT	5*PRESENT	01	05	03	06	01	02	04(DP401)	05
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	01	02	04(DP401)	05
2549	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
3264	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	NT	NT	04(DP401)	05
3410	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
3438	02	25	18	56	07	12	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
3582	02	25	18	56	07	12	11	15	3*02	5*01	NT	NT	03	06	NT	NT	NT	NT
3600	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3625	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	NT	NT	04(DP401)	05
3849	NT	NT	NT	NT	NT	NT	11	15	3*02	5*01	NT	NT	03	06	NT	NT	NT	NT
4281	02	25	18	56	07	12	11	15	3*PRESENT	5*PRESENT	01	05	03	06	01	02	04(DP401)	05
4420	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	05
4551	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
4582	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
4585	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
4709	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
5451	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	NT	NT	NT	NT
6051	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	NT	NT
6313	02	25	18	56	07	12	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
9221	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	02	25	18	56	07	12	11	15	3*02	5*01	01	05	03	06	01	02	04(DP401)	05

**Table 22. Individual laboratory results for DNA # 932 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
16	02:01:01	02:06:01	15:17:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02	04:02:01
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
139	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01:02G	04:02:01G
147	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	NT	NT	02:01P	04:02P
158	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	NT	NT	02:01	04:02
168	02:01:01G	02:06:01G	15:17:01G	39:05:01	NT	NT	04:07:01G	13:02:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	02:06:01G	15:17:01G	39:05:01	07:01P	07:02P	04:07P	13:02P	3*03:01P	4*01:01P	01:02:01G	03:01:01G	03:02P	06:04P	NT	NT	02:01:02G	04:02:01G
188	02:01	02:06:01:01	15:17	39:05	07:01:02	07:02	04:07P	13:02	NT	NT	01:02	03:01:01	03:02P	06:04P	01:03	01:03	02:01P	04:02P
189	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	NT	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02
192	02:01:01G	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	NT	NT	02:01:02G	04:02
195	NT	NT	15:17	NT	NT	NT	NT	NT	3*03:01	NT	NT	NT	03:02	NT	NT	NT	02:01	04:02
205	02:01:01	02:06:01	15:17	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02	04:02:01
207	02:01	02:06	15:17	39:05	07:01:02	07:02	04:07	13:02	NT	NT	01:02	03:01	03:02	06:04	NT	NT	02:01	04:02
213	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	NT	NT	02:01P	04:02P
218	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02:01:01:01	02:06:01	15:17:01:01	39:05	07:01	07:02	04:07:01	13:02:01	3*03:01	4*01:03	01:02:01	03:01:01	03:02:01	06:04:01	01:03	01:03	02:01:02	04:02
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	02:01:01	02:06:01:01	15:17:01:01	39:05:01	07:01:02	07:02:01	04:07:01G	13:02:01	NT	NT	NT	NT	03:02	06:04	NT	NT	02:01:02G	04:02:01G
264	02:01:01G	02:06:01	15:17:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02G	04:02:01G
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
403	02:01:01	02:06:01:01	15:17:01:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	NT	NT	NT	NT	03:02:01G	06:04:01G	NT	NT	02:01:02G	04:02:01G
452	02:01:01	02:06:01	15:17:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02	04:02:01
615	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02
702	02:01:01	02:06:01	15:17:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01	4*01:03	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02	04:02:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	04:02P
732	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02
805	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	04:02P
1212	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	NT	NT	02:01	04:02
1251	02:01:01G	02:06:01	15:17:01	39:05:01	07:01:01G	07:02:01G	04:07:01G	13:02:01G	3*03:01	4*01:03	NT	NT	03:02:01G	06:04:01G	01:03	01:03	02:01	04:02
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2063	02:01:01	02:06:01	15:17:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02	04:02:01
3264	02:01:01	02:06:01	15:17:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03	01:02:01	03:01:01	03:02:01	06:04:01	NT	NT	02:01:02	04:02:01
3325	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01:02G	04:02:01G
3614	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02:01G
4551	02:01:01G	02:06:01G	15:17:01G	39:05:01	07:01:01G	07:02:01G	04:07:01G	13:02:01G	3*03:01:01	4*01:03	01:02:01G	03:01:01G	03:02:01G	06:04:01G	NT	NT	02:01:02G	04:02:01G
4582	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01:02G	04:02:01G
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	04:02
5451	02:01:01	02:06:01:01	15:17:01:01	39:05:01	07:01:02	NEW	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	NT	NT	NT	NT
45452	02:01:01	02:06:01	15:17:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02	04:02:01

Final Consensus based on High Resolution	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02
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**Table 23. Individual laboratory results for DNA # 932 High Resolution**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1	DQB1		DPA1		DPB1			
7	02:01:01G	02:06	15:17	39:05	07:01:01G	07:02:01G	04:07:01G	13:02	3*03:01:01G	4*01:01:01G	01:02:01G	03:01:01G	03:02:01G	06:04:01G	NT	NT	02:01:02G	04:02:01G
124	02:01:01:01	02:06:01:01	15:17:01:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02G	04:02:01G
138	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	02:01	04:02
144	02:01:01G	02:06:01	15:17:01	39:05:01	07:01:02	07:02:01	04:07P	13:02:01	NT	NT	01:02:01G	03:01:01G	03:02:01	06:04	01:03:01G	01:03:01G	02:01	04:02
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	02:01:01G	02:06:01G	15:17	39:05	07:01	07:02	04:07:01G	13:02:01G	NT	NT	NT	NT	03:02:01G	06:04:01G	NT	NT	02:01:02G	04:02:01G
155	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	02:06	15:17	39:05	07:01:01G	07:02	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	NT	NT
173	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	NT	NT	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02
174	02:01	02:06	15:17	39:05	07:01:01G	07:02:01G	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	NT	NT
176	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	NT	NT
190	02:01:01:01	02:06:01:01	15:17:01:01	39:05:01	07:01:02	07:02:01G	04:07:01	13:02:01	NT	NT	NT	NT	03:02:01	06:04:01	NT	NT	NT	NT
193	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	02:06	15:17	NT	NT	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	NT	NT	02:01P	04:02P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
249	02:01:01	02:06:01	15:17:01	39:05:01	07:01:01	07:02:01	04:07:01	13:02:01	3*03:01:01	4*01:03:02	01:02:01	03:01:01	03:02:01	06:04:01	01:03:01	01:03:01	02:01:02	04:02:01
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:01	01:02	03:01	03:02	06:04	NT	NT	NT	NT
278	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	NT	NT
292	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	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	04:07	13:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01P	02:06	15:17	39:05	07:01	07:02	04:07P	13:02	3*03:01	4*01:01P	NT	NT	03:02P	06:04P	NT	NT	02:01P	04:02P
1189	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	NT	NT	03:02	06:04	NT	NT	02:01	04:02
1498	02:01:01G	02:06	15:17	39:05	07:01:01G	07:02:01G	04:07:01G	13:02:01	3*03:01	4*01:03	01:02	03:01	03:02:01	06:04:01	NT	NT	02:01	04:02:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	02:01	04:02	
2549	02:01:01G	02:06	15:17	39:05	07:01	07:02:01G	04:07:01G	13:02:01G	NT	NT	NT	03:01	03:02:01G	06:04:01G	NT	NT	NT	NT
2862	02:01:01	02:06:01:01	15:17:01:01	39:05:01	07:01:02	07:02:01	04:07:01	13:02:01	NT	NT	NT	NT	03:02	06:04	NT	NT	NT	NT
3261	NT	NT	NT	NT	NT	NT	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	02:01	04:02
3410	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	NT	NT
3582	02:01:01G	02:06:01G	15:17:01G	39:05	07:01:01G	07:02:01G	04:07:01G	13:02:01G	3*03:01:01G	4*01:01:01G	NT	NT	03:02:01G	06:04:01G	NT	NT	02:02:01G	04:02:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	04:02P
3625	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	NT	NT	01:02	03:01	03:02	06:04	NT	NT	02:01	04:02
4420	02:01	02:06	15:17	39:05	NT	07:02	04:07	13:02	NT	NT	01:02	03:01	03:02	06:04	NT	NT	02:01	NT
4545	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4585	NT	NT	15:17	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	04:07	13:02	NT	NT	NT	NT	03:02	06:04	NT	NT	02:01:02G	04:02:01G
6313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9222	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	02:06	15:17	39:05	07:01	07:02	04:07	13:02	3*03:01	4*01:03	01:02	03:01	03:02	06:04	01:03	01:03	02:01	04:02

**Table 24. Individual laboratory results for DNA # 932 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	NT	NT	
16	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
134	02	02	15	39	07	07	04	13	NT	NT	NT	NT	03	06	NT	NT	02(DP201)	04(DP402)
138	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
139	02	NT	15	39	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
142	02	02	15	39	07	07	04	13	3*03	4*01	NT	NT	03	06	NT	NT	NT	NT
144	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	04(DP402)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	02	02	15	39	07	07	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
152	02	02	15	39	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
189	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
190	02	02	15	39	07	07	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
192	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	04(DP402)
195	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
199	NT	NT	NT	NT	NT	NT	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
205	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
207	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	04(DP402)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
227	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
228	02	02	15	39	07	07	04	13	3*PRESENT	4*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	02	15	39	07	07	04	13	3*03	4*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
255	02	02	15	39	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	02	15	39	07	07	04	13	3*PRESENT	4*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	02	15	39	07	07	04	13	3*01	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
266	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	04(DP402)
267	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	NT	NT	NT	NT
268	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
278	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
282	02	02	15	39	07	07	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
286	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
288	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
290	02	02	15	39	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
293	02	02	15	39	07	07	04	13	3*01	4*01	NT	NT	03	06	NT	NT	NT	NT
294	02	02	15	39	07	07	04	13	NT	NT	NT	NT	03	06	NT	NT	02(DP201)	04(DP402)
304	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
309	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	04(DP402)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
312	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	04(DP402)
318	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	04(DP402)
324	02	NT	38	39	NT	NT	04	11	NT	NT	NT	NT	03	06	NT	NT	NT	NT
402	02	02	15	39	07	07	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT

**Table 24. Individual laboratory results for DNA # 932 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
615	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
702	02	02	15	39	07	07	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	02(DP201)	04(DP402)
726	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
732	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
805	02	02	15	39	07	07	04	13	3*03	4*01	NT	NT	03	06	NT	NT	02(DP201)	04(DP402)
1113	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	NT	NT
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
1647	02	02	15	39	07	07	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	02(DP201)	04(DP402)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	04(DP402)
2549	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
3264	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	04(DP402)
3410	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
3438	02	02	15	39	07	07	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
3582	02	02	15	39	07	07	04	13	3*03	4*01	NT	NT	03	06	NT	NT	NT	NT
3600	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3625	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	04(DP402)
3849	NT	NT	NT	NT	NT	NT	04	13	3*03	4*01	NT	NT	03	06	NT	NT	NT	NT
4281	02	02	15	39	07	07	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	02(DP201)	04(DP402)
4420	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	02(DP201)	NT
4551	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
4582	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
4585	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
4709	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
5451	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	NT	NT	NT	NT
6051	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	NT	NT
6313	02	02	15	39	07	07	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
9221	02	NT	15	39	07	NT	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	02	02	15	39	07	07	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	04(DP402)



## Participants and Methods

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
7	SBT-ACT SSO-OL	SBT-ACT	SBT-ACT SSO-OL	SBT-SC	SSO-OL	SSO-OL	SBT-SC SSO-OL	SSO-OL	SSO-OL
16	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
124									
134	NGS-GIL SSP-OLE	NGS-GIL SSP-OLE	NGS-GIL SSP-OLE	NGS-GIL SSP-OLE	NGS-GIL SSP-OLE	NGS-GIL	NGS-GIL SSP-OLE		NGS-GIL SSP-OLE
138	SBT-OL SSO-OL	SBT-OL SSO-OL	SBT-OL SSO-OL	SBT-OL SSO-OL	SSO-OL	SSO-OL	SBT-OL SSO-OL	SSO-OL	SBT-OL SSO-OL
139	NGS-IL SSO-GP-OL SSP-OL	NGS-IL SSO-GP-OL SSP-OL	NGS-IL SSO-GP-OL SSP-OL	NGS-IL SSO-GP-OL SSP-OL	NGS-IL	NGS-IL	NGS-IL SSO-OL	NGS-IL	NGS-IL SSO-GP
142	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM		
144	SBT-HA-SC SSO-OL SSP-INT	SBT-HA-HT-SC SSO-OL SSP-INT	SBT-HA-SC SSO-OL SSP-INT	SBT-HA-SC SSO-OL SSP-INT	SSP-INT	SSO-OL SSP-INT	SBT-HA-SC SSO-OL SSP-INT	SSO-OL SSP-INT	SSO-OL SSP-INT
147	NGS-GIL SSP-LB	NGS-GIL SSP-LB	NGS-GIL SSP-LB	NGS-GIL SSP-LB	SSP-LB-OLE	SSP-LB-OLE	NGS-GIL SSP-LB		NGS-GIL SSP-LB
148	SBT-ACT SSO-BAG	SBT-ACT SSO-BAG	SBT-ACT SSO-BAG	SBT-ACT SSO-BAG	SBT-GD		SBT-PRO SSO-BAG		SBT-ACT
151	SBT-LT SSO-OL	SBT-LT SSO-OL	SBT-LT SSO-OL	SBT-LT SSO-OL			SBT-LT SSO-OL		SBT-LT SSO-OL
152	SSP-INV	SSP-INV		SSP-INV					
155	SBT-INH	SBT-INH	SBT-INH	SBT-INH			SBT-INH		
158	NGS-GD SSP-BAG-INN-OLE	NGS-GD SSP-BAG-INN-OLE	NGS-GD SSP-BAG-INN-OLE	NGS-GD SSP-BAG-INN-OLE	SSP-OLE	SSP-BAG-INN-OLE	NGS-GD SSP-INN-OLE		SSP-OLE
162	SBT-BS SSP-BS	SBT-BS SSP-BS	SBT-BS SSP-BS	SBT-BS SSP-BS			SBT-BS SSP-BS		
168	NGS-INH	NGS-INH		NGS-INH					
173	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL		SSO-LUM-OL SSP-INV	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-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	SBT-ACT SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL		NGS-GIL SSO-OL	SBT-ACT SSO-OL	NGS-GIL SSO-OL	NGS-GIL SBT-ACT SSO-OL
189	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL SSP-OLE	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL SSP-LT
190	SBT-SC SSP-OL	SBT-SC SSP-OL	SBT-SC SSP-OL	SBT-SC SSP-OL	SSP-OL		SBT-SC SSP-OL		
192	NGS-INH SSP-OLE	NGS-INH SSP-OLE	NGS-INH SSP-OLE	NGS-INH SSP-OLE	SSP-OLE	SSP-OLE	NGS-INH SSP-OLE		NGS-INH SSP-OLE
193	SBT-SC SSO-LUM-OL	SBT-SC SSO-LUM-OL	SBT-SC SSO-LUM-OL	SBT-SC SSO-LUM-OL			SBT-SC SSO-LUM-OL		
195	NGS-OL SSO-OL SSP-LB	NGS-OL SSO-OL SSP-LB	NGS-OL SSO-OL SSP-LB	NGS-OL SSO-OL SSP-LB	NGS-OL SSP-LB	NGS-OL SSO-OL	NGS-OL SSO-OL SSP-LB	NGS-OL SSO-OL SSP-LB	NGS-OL SSO-OL SSP-LB

**Participants and Methods**

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
199				SSP-OL	SSP-OL		SSP-OL		
205	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL
207	NGS-OMX SSO-OL SSP-INT-OLE	NGS-OMX SSO-OL SSP-INT-OLE	NGS-OMX SSO-OL SSP-INT-OLE	NGS-OMX SSO-OL SSP-INT-OLE	SSP-INT-OLE	NGS-OMX SSO-OL SSP-INT	NGS-OMX SSO-OL SSP-INT-OLE	SSP-INT	NGS-OMX SSO-OL SSP-INT-OLE
209	SSO-OL SSP-BR-OLE	SBT-GD SSO-OL SSP-BR-OLE	SSO-OL SSP-BR-OLE	SSO-OL SSP-BR-OLE	SSP-BR-OLE	SSO-OL SSP-OLE	SSO-OL SSP-BR-OLE		SSO-OL SSP-OLE
213	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSO-OL	NGS-OMX SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX SSO-OL		NGS-OMX SSP-OLE
215	SSP-BT	SSP-BT	SSP-BT	SSP-BT	SSP-BT				
218	NGS-INH SBT-INH SSP-INH	NGS-INH SBT-INH SSP-INH	NGS-INH SBT-INH SSP-INH	NGS-INH SBT-INH SSP-INH			NGS-INH SBT-INH SSP-INH		
226	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
227	NGS-OL SBT-OL SSO-OL	NGS-OL SSO-OL	NGS-OL SSO-OL	NGS-OL SBT-OL SSO-OL	NGS-OL	NGS-OL SSO-OL	NGS-OL SSO-OL	NGS-OL SSO-OL	NGS-OL SSO-OL
228	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG		SSP-BAG		
234	NGS-GD SSO-OL SSP-INV-LB	NGS-GD SSO-OL SSP-INV-LB	NGS-GD SSO-OL SSP-INV-LB	NGS-GD SSO-OL SSP-INV-LB	SSO-OL	SSO-OL	NGS-GD SSO-OL SSP-INV-LB		NGS-GD SSO-OL SSP-INV-LB
239	SSP-LB	SSP-LB	SSP-LB	SSP-LB-OL	SSP-LB-OL	SSP-LB-OL	SSP-LB-OL	SSP-LB-OL	SSP-LB-OL
242	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		
249	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU
255	SSO-OL	SSO-OL		SSO-OL					
258	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL	NGS-GD SSO-OL			NGS-GD SSO-OL		NGS-GD SSO-OL
260	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO		SSP-PRO		
262	SSP-BR-OLE-PRO	SSP-BR-OLE-PRO	SSP-BR-OLE-PRO	SSP-OL-OLE-PRO	SSP-PRO	SSP-OLE	SSP-OLE-PRO		
264	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
265	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSO-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	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-OLE	SSO-OLE	SSO-OLE	SSO-OLE		SSO-OLE	SSO-OLE		
278	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL
282	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE					
285	SSO-LUM	SSO-LUM SSP-OLE	SSO-LUM	Other-Others SSO-LUM		Other-Others SSO-LUM	Other-Others SSO-LUM		
286									
288	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG SSP-OLE		SSO-BAG	SSO-BAG SSP-OLE		
290	SSO-LC	SSO-LC		SSO-LC					
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
293	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM SSP-IMM		SSO-IMM		

**Participants and Methods**

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
294	NGS-OMX SBT-INH SSO-OL SSP-OLE	NGS-OMX SBT-INH SSO-OL SSP-OLE	NGS-OMX SBT-INH SSO-OL SSP-OLE	NGS-OMX SBT-INH SSO-OL SSP-OLE	SBT-INH SSP-OLE	NGS-OMX SSO-OL	NGS-OMX SSO-OL SSP-OLE		NGS-OMX SSP-OLE
304	SSO-GTI	SSO-GTI	SSO-GTI	SSO-GTI		SSO-GTI	SSO-GTI		
309	SSO-OL	SSO-OL	SSO-OL SSP-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
311	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
312	SBT-INH SSO-IMM	SBT-INH SSO-IMM	SBT-INH SSO-IMM	SBT-INH SSO-IMM	SSO-IMM	SSO-IMM	SBT-INH SSO-IMM	SSO-IMM	SSO-IMM
313									
316	SSO-OL	SSO-OL	SSO-OL	SSO-OL SSP-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
317	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL
318	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
324	SSP-OL	SSP-OL		SSP-OL	SSP-OL		SSP-OL		
402	SSO-GD-IMM-OL	SSO-GD-IMM-OL	SSO-GD-IMM-OL	SBT-GD SSO-IMM-OL			SBT-GD SSO-IMM-OL		
403	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
452	NGS-SG	SBT-CG NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	SBT-CG NGS-SG	NGS-SG	NGS-SG
615	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
702	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	SSP-OLE	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL
726	NGS-GD SSO-OL SSP-LB	NGS-GD SSO-OL SSP-LB	NGS-GD SSO-OL SSP-LB	NGS-GD SSO-OL SSP-LB	NGS-GD SSO-OL SSP-LB	NGS-GD SSO-OL SSP-LB	NGS-GD SSO-OL SSP-LB	NGS-GD SSO-OL SSP-LB	NGS-GD SSO-OL SSP-LB
732	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL	NGS-IMM SSO-OL
769	SBT-GD SSO-OL	SBT-GD SSO-OL	SBT-GD SSO-OL	SBT-CG SSO-OL	SBT-CG SSO-OL SSP-OL		SBT-CG SSO-OL		SBT-CG SSO-OL SSP-OLE
805	NGS-GIL SBT-OL SSO-IMM	NGS-GIL SBT-OL SSO-IMM	NGS-GIL SBT-OL SSO-IMM SSP-OL	NGS-GIL SBT-OL SSO-IMM	NGS-GIL SSO-IMM	NGS-GIL	NGS-GIL SBT-OL SSO-IMM SSP-OL	NGS-GIL	NGS-GIL SBT-OL SSO-IMM
1113	NGS-OMX SSP-LB	NGS-OMX SSO-LUM SSP-LB	NGS-OMX SSP-LB	NGS-OMX SSO-LUM SSP-LB	SSP-LB-OLE	NGS-OMX SSO-LUM SSP-LB	NGS-OMX SSO-LUM SSP-LB	SSO-LUM SSP-LB	NGS-OMX SSO-LUM SSP-LB
1189	SBT-SC SSO-OL	NGS-OL SBT-SC	SBT-SC SSO-OL	SBT-SC	SSO-OL SSP-LT	NGS-OL	SBT-SC SSO-OL		SBT-SC SSP-LT
1212	NGS-OMX SSO-OL SSP-OLE	NGS-OMX SSO-OL SSP-OLE	NGS-OMX SSO-OL SSP-OLE	NGS-OMX SSO-OL SSP-OLE	SSP-OLE	NGS-OMX SSO-OL	NGS-OMX SSO-OL SSP-OLE	SSO-OL	NGS-OMX SSO-OL SSP-OLE

**Participants and Methods**

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
1251	NGS-GIL rtPCR-OLE SBT-PRO SSO-LUM SSP-OLE	NGS-GIL rtPCR-OLE SBT-PRO SSO-LUM SSP-OLE	NGS-GIL rtPCR-OLE SBT-PRO SSO-LUM SSP-OLE	NGS-GIL rtPCR-OLE SBT-PRO SSO-LUM SSP-OLE		rtPCR-OLE SSP-OLE	rtPCR-OLE SBT-PRO SSO-LUM SSP-OLE	rtPCR-OLE SSO-LUM	rtPCR-OLE SSO-LUM SSO-LUM SSP-OLE
1498	SBT-INH	SBT-INH	SBT-INH	SBT-CG	SSP-OL	SSP-OL	SBT-CG		SBT-CG
1647	NGS-GD SSP-LB	NGS-GD SSP-LB	NGS-GD SSP-LB	NGS-GD SSP-LB	NGS-GD SSP-LB	NGS-GD SSP-LB	NGS-GD SSP-LB	NGS-GD SSP-LB	NGS-GD SSP-LB
2063	NGS-IL LINKSEQ	NGS-IL LINKSEQ	NGS-IL LINKSEQ	NGS-IL LINKSEQ	NGS-IL LINKSEQ	NGS-IL LINKSEQ	NGS-IL LINKSEQ	NGS-IL LINKSEQ	NGS-IL LINKSEQ
2518	SSO-OL	SSO-OL	SSO-OL	SBT-OL SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL SSP-OL
2549	SBT-OLE SSO-OL SSP-OLE	SBT-OLE SSO-OL SSP-OLE	SBT-OLE SSO-OL SSP-OLE	SBT-OLE SSO-OL SSP-OLE	SSO-OL	SSO-OL SSP-OLE	SBT-OLE SSO-OL	SSO-OL	SSO-OL
2862									
3261				SBT-GD			SBT-GD		SBT-GD
3264	NGS-OMX SSO-OL SSP-LB	NGS-OMX SSO-OL SSP-LB	NGS-OMX SSP-LB	NGS-OMX SSO-OL SSP-LB	NGS-OMX SSP-LB-OLE	NGS-OMX SSP-LB	NGS-OMX SSO-OL SSP-LB	SSP-LB	NGS-OMX SSP-LB
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-ACT-GV-UNI	SBT-ACT SSO-OL SSP-ACT-GV-UNI	SBT-ACT SSO-OL SSP-GV-UNI	SBT-ACT SSO-OL SSP-GV-UNI		SSO-OL	SBT-ACT SSO-OL SSP-GV-UNI		
3438	SSP-INT	SSP-INT	SSP-INT	SSP-INT			SSP-INT		
3582	SBT-CG	SBT-CG	SBT-CG	SBT-CG	SBT-CG		SBT-CG		SBT-CG
3600	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB
3614	NGS-OMX SSO-OL SSP-LB-OL	NGS-OMX SSO-OL SSP-LB-OL	NGS-OMX SSO-OL SSP-LB-OL	NGS-OMX SSO-OL SSP-LB-OL	NGS-OMX SSO-OL SSP-LB-OL	NGS-OMX SSO-OL SSP-LB-OL	NGS-OMX SSO-OL SSP-LB-OL	NGS-OMX SSO-OL SSP-LB-OL	NGS-OMX SSO-OL SSP-LB-OL
3625	SBT-INH SSO-IMM	SBT-INH SSO-IMM	SBT-INH SSO-IMM	SBT-INH SSO-IMM	SSO-IMM	SBT-INH SSO-IMM	SBT-INH SSO-IMM		SBT-INH SSO-IMM
3849				SBT-SC SSO-INH	SSO-INH		SSO-INH		
4281	SSO-IMM	SSO-IMM SSP-OL	SSO-IMM SSP-IMM	SSO-IMM	SSO-IMM	SSO-IMM	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									
4551	NGS-OMX SBT-PRO SSO-OL SSP-LB-OLE	NGS-OMX SBT-PRO SSO-OL SSP-LB-OLE	NGS-OMX SBT-PRO SSO-OL SSP-LB	NGS-OMX SBT-PRO SSO-OL SSP-LB-OLE	SSP-LB-OLE	NGS-OMX SSO-OL SSP-LB	NGS-OMX SSO-OL SSP-LB-OLE	SSO-OL	NGS-OMX SSO-OL SSP-LB-OLE
4582	NGS-IL SSO-OL	NGS-IL SSO-OL	NGS-IL SSO-OL	NGS-IL SSO-OL	NGS-IL SSO-OL	NGS-IL SSO-OL	NGS-IL SSO-OL	NGS-IL SSO-OL	NGS-IL SSO-OL
4585	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
4709	NGS-OMX SSP-LB-OLE	NGS-OMX SSP-LB-OLE	NGS-OMX SSP-LB-OLE	NGS-OMX SSP-LB-OLE	NGS-OMX SSP-LB-OLE	NGS-OMX SSP-LB-OLE	NGS-OMX SSP-LB-OLE	SSP-LB	NGS-OMX SSP-LB-OLE
5451	NGS-INH qPCR-LSQ SBT-INH	NGS-INH qPCR-LSQ SBT-INH	NGS-INH qPCR-LSQ SBT-INH	qPCR-LSQ SBT-INH	qPCR-LSQ SBT-INH	qPCR-LSQ SBT-INH	qPCR-LSQ SBT-INH		

### Participants and Methods

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
6051	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
6313	SBT-INV-PRO SSO-IMM	SBT-INV-PRO SSO-IMM	SBT-INV-PRO SSO-IMM	SBT-INV-PRO SSO-IMM		SSO-IMM	SBT-INV-PRO SSO-IMM		
9221	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB
9222	SBT-SC	SBT-SC	SBT-SC	SBT-SC					
45452	NGS-LT	NGS-LT	NGS-LT	NGS-LT	NGS-LT	NGS-LT	NGS-LT	NGS-LT	NGS-LT

Participants using NGS