

# UCLA INTERNATIONAL HLA DNA EXCHANGE—180TH SUMMARY



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DNA Sample	
#1101	#1104
#1102	#1105
#1103	#1106

## DNA #1101 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A\*24:02-A\*26:01-B\*44:02-B\*55:01-C\*03:03-C\*05:01-DRB1\*07:01-DRB1\*13:03-DRB3\*02:02-DRB4\*01:03:01:02N-DQA1\*02:01-DQA1\*05:05-DQB1\*03:01-DQB1\*03:03-DPA1\*01:03-DPB1\*04:01.

The likely class II associations for this cell are DRB1\*07:01-DQB1\*03:03 and DRB1\*13:03-DQB1\*03:01, with respective frequencies of HF=0.03642 and HF=0.00990, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1101 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9. The results for DNA #1101 HLA-E, -F, -G, -H, and MICB data can be found on Table 25.

## DNA #1102 BLACK

The consensus type for this sample from a Black donor is A\*02:05-A\*68:01-B\*27:03-B\*53:01-C\*02:02-C\*04:01-DRB1\*03:01-DRB1\*08:04-DRB3\*02:02-DQA1\*04:01-DQA1\*05:01-DQB1\*02:01-DQB1\*03:19-DPA1\*01:03-DPA1\*02:01-DPB1\*17:01.

The likely class I associations in this cell are A\*02:05-B\*27:03-C\*02:02 and A\*68:01-B\*53:01-C\*04:01, with respective frequencies of HF=0.00042 and HF=0.00049, as seen in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #1102 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12. The results for DNA #1102 HLA-E, -F, -G, -H, and MICB data can be found on Table 26.

## DNA #1103 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*02:11-A\*24:53-B\*40:04-B\*52:01-C\*03:04-C\*15:02-DRB1\*04:04-DRB1\*08:02-DRB4\*01:03-DQA1\*03:01-DQA1\*04:01-DQB1\*03:02-DQB1\*04:02-DPA1\*01:03-DPB1\*04:02.

The likely class II associations for this cell are DRB1\*04:04-DQB1\*03:02 and DRB1\*08:02-DQB1\*04:02, with respective frequency of HF=0.04912 and HF=0.05612, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1103 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15. The results for DNA #1103 HLA-E, -F, -G, -H, and MICB data can be found on Table 27.



DNA Sample	
#1101	#1104
#1102	#1105
#1103	#1106

### DNA #1104 HISPANIC

The consensus type for this sample from an Hispanic donor is A\*0:01-A\*02:01-B\*08:01-B\*35:17-C\*04:01-C\*07:01-DRB1\*03:01-DRB1\*08:02-DRB3\*01:01-DQA1\*04:01-DQA1\*05:01-DQB1\*02:01-DQB1\*04:02-DPA1\*01:03-DPB1\*02:01.

The likely class I associations in this cell are A\*01:01-B\*08:01-C\*07:01 and A\*02:01-B\*35:17-C\*04:01, with respective frequencies of HF=0.02231 and HF=0.00632, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1104 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18. The results for DNA #1104 HLA-E, -F, -G, -H, and MICB data can be found on Table 28.

### DNA #1105 MIXED

The consensus type for this sample from a Mixed donor is A\*02:01-A\*32:01-B\*27:05-B\*44:02-C\*02:02-C\*05:01-DRB1\*11:01-DRB1\*13:01-DRB3\*01:01-DRB3\*02:02-DQA1\*01:03-DQA1\*05:05-DQB1\*03:01-DQB1\*06:03-DPA1\*01:03-DPB1\*03:01-DPB1\*04:01.

The likely class I associations in this cell are A\*02:01-B\*44:02-C\*05:01 and A\*32:01-B\*27:05-C\*02:02, with respective frequencies of HF=0.05370 and HF=0.00069, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1105 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21. The results for DNA #1105 HLA-E, -F, -G, -H, and MICB data can be found on Table 29.

### DNA #1106 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A\*02:01-B\*40:01-B\*44:02-C\*03:04-C\*05:01-DRB1\*13:01-DRB1\*14-DRB3\*01:01-DRB3\*02:02-DQA1\*01:03-DQA1\*01:04-DQB1\*05:03-DQB1\*06:03-DPA1\*01:03-DPB1\*04:01.

A consensus for the second DRB1\*14 allele could not be obtained seeing as 15 participants reported DRB1\*14:54:01, 8 participants reported DRB1\*14:01:01G, 10 participants reported DRB1\*14:01P, 32 participants reported DRB1\*14:54, 2 participants reported DRB1\*14:01 and 1 participant reported DRB1\*15:01.

The likely class I associations in this cell are A\*02:01-B\*40:01-C\*03:04 and A\*02:01-B\*44:02-C\*05:01, with respective frequencies of HF=0.02759 and HF=0.05370, as seen in Caucasian, according to the NMDP Bioinformatics website.

The results for DNA #1106 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24. The results for DNA #1106 HLA-E, -F, -G, -H, and MICB data can be found on Table 30.

#### ACKNOWLEDGMENTS:

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*Posted online on May 8, 2024*

**Table 1. Summary of the 180th DNA Exchange (DNA #1101)**

A				B				C			
69 labs High / 61 labs Low		% (n)		69 labs High / 61 labs Low		% (n)		65 labs High / 53 labs Low		% (n)	
A*24:02:01:01	3 (2)	A*26:01:01:01	14(10)	B*44:02:01:01	3 (2)	B*55:01:01	56(39)	C*03:03:01:01	1 (1)	C*05:01:01:02	1 (1)
A*24:02:01	56(39)	A*26:01:01	43(30)	B*44:02:01	57(39)	B*55:01:01G	1 (1)	C*03:03:01	54(37)	C*05:01:01	54(37)
A*24:02:01G	4 (3)	A*26:01:01G	4 (3)	B*44:02:01G	1 (1)	B*55:01P	4 (3)	C*03:03:01G	3 (2)	C*05:01:01G	3 (2)
A*24:02P	1 (1)	A*26:01P	1 (1)	B*44:02P	3 (2)	B*55:01	38(26)	C*03:03P	3 (2)	C*05:01P	3 (2)
A*24:02	35(24)	A*26:01	36(25)	B*44:02	35(24)	B*55	98(60)	C*03:03	38(26)	C*05:01	38(26)
A*24	98(60)	A*26	98(60)	B*44	98(60)	<b>B*39</b>	2 (1)	C*03(Cw9)	49(29)	C*05	98(58)
<b>A*02</b>	2 (1)	<b>A*30</b>	2 (1)	<b>B*14</b>	2 (1)			C*03	49(29)	<b>C*08</b>	2 (1)
								<b>C*07</b>	2 (1)		
DRB1				DRB3/4/5				DQA1			
70 labs High / 62 labs Low		% (n)		53 labs High / 38 labs Low		% (n)		63 labs High / 50 labs Low		% (n)	
DRB1*07:01:01:01	1 (1)	DRB1*13:03:01	48(33)	DRB3*02:02:01:01	2 (1)	DRB4*01:03:01:02N	44(23)	DQA1*02:01:01	54(34)	DQA1*05:05:01	56(34)
DRB1*07:01:01	50(35)	DRB1*13:03P	6 (4)	DRB3*02:02:01	45(24)	<b>DRB4*01:03:01:01</b>	2 (1)	DQA1*02:01:01G	3 (2)	DQA1*05:01:01G	3 (2)
DRB1*07:01:01G	4 (3)	DRB1*13:03	45(31)	DRB3*02:02:01G	11(6)	<b>DRB4*01:03:01</b>	2 (1)	DQA1*02:01	43(27)	DQA1*05:01P	2 (1)
DRB1*07:01P	10(7)	DRB1*13:01	1 (1)	DRB3*02:02P	7 (4)	DRB4*01:01:01G	4 (2)	DQA1*02	100(50)	DQA1*05:05	38(23)
DRB1*07:01	34(24)	DRB1*13	98(61)	DRB3*02:02	34(18)	DRB4*01:03:01N	25(13)			<b>DQA1*05:01</b>	2 (1)
DRB1*07	100(62)	<b>DRB1*08</b>	2 (1)	DRB3*02	78(29)	DRB4*01:01P	2 (1)			DQA1*05	98(49)
				DRB3*PRESENT	22(8)	DRB4*01:03N	19(10)			<b>DQA1*04</b>	2 (1)
						<b>DRB4*01:03</b>	2 (1)				
						DRB4*01	18(7)				
						DRB4*01N	47(18)				
						DRB4*NULL	16(6)				
						DRB4*PRESENT	18(7)				
DQB1				DPA1				DPB1			
71 labs High / 60 labs Low		% (n)		55 labs High / 37 labs Low		% (n)		67 labs High / 35 labs Low		% (n)	
DQB1*03:01:01	44(31)	DQB1*03:03:02	51(36)	DPA1*01:03:01:02	2 (1)			DPB1*04:01:01:01	1 (1)		
DQB1*03:01:01G	7 (5)	DQB1*03:03:02G	1 (1)	DPA1*01:03:01:01	2 (1)			DPB1*04:01:01	36(24)		
DQB1*03:01P	11(8)	DQB1*03:03P	7 (5)	DPA1*01:03:01	53(29)			DPB1*04:01:01G	10(7)		
DQB1*03:01	37(26)	DQB1*03:03	41(29)	DPA1*01:03P	9 (5)			DPB1*04:01P	18(12)		
DQB1*03(DQ7)	58(35)	DQB1*03(DQ9)	58(35)	DPA1*01:03	34(19)			DPB1*04:01	34(23)		
DQB1*03	40(24)	DQB1*03	38(23)	DPA1*01	100(37)			DPB1*04(DP401)	97(34)		
<b>DQB1*02</b>	2 (1)	<b>DQB1*04</b>	3 (2)					<b>DPB1*23</b>	3 (1)		

Discrepant results from consensus are in bold and italicized in Tables 1-6

**Table 2. Summary of the 180th DNA Exchange (DNA #1102)**

A				B				C			
68 labs High / 60 labs Low		% (n)		68 labs High / 60 labs Low		% (n)		66 labs High / 57 labs Low		% (n)	
A*02:05:01:01	12(8)	A*68:01:01:02	10(7)	B*27:03	98(66)	B*53:01:01:01	16(11)	C*02:02:02	60(39)	C*04:01:01	59(39)
A*02:05:01	34(23)	A*68:01:01	34(23)	<b>B*27:05</b>	2 (1)	B*53:01:01	43(29)	C*02:02:02G	3 (2)	C*04:01:01G	6 (4)
A*02:05:01G	10(7)	A*68:01:01G	10(7)	B*27	98(59)	B*53:01:01G	3 (2)	C*02:02P	1 (1)	C*04:01	35(23)
A*02:05P	7 (5)	A*68:01P	7 (5)	<b>B*15</b>	2 (1)	B*53:01P	1 (1)	C*02:02	35(23)	C*04	98(56)
A*02:05	37(25)	A*68:01	38(26)			B*53:01	37(25)	C*02	98(56)	<b>C*07</b>	2 (2)
A*02	98(59)	A*68	100(60)			B*53	98(59)	<b>C*01</b>	2 (1)		
<b>A*01</b>	2 (1)					<b>B*35</b>	2 (1)				
DRB1				DRB3/4/5				DQA1			
70 labs High / 61 labs Low		% (n)		51 labs High / 38 labs Low				62 labs High / 50 labs Low		% (n)	
DRB1*03:01:01:01	1 (1)	DRB1*08:04:01	56(39)	DRB3*02:02:01:01	2 (1)			DQA1*04:01:02	53(33)	DQA1*05:01:01	53(33)
DRB1*03:01:01	41(29)	DRB1*08:04P	4 (3)	DRB3*02:02:01	41(21)			DQA1*04:01:01G	3 (2)	DQA1*05:01:01G	3 (2)
DRB1*03:01:01G	6 (4)	DRB1*08:04	40(28)	DRB3*02:02:01G	14(7)			DQA1*04:01P	3 (2)	DQA1*05:01P	3 (2)
DRB1*03:01P	11(8)	DRB1*08	98(60)	DRB3*02:02P	8 (4)			DQA1*04:01	40(25)	DQA1*05:01	40(25)
DRB1*03:01	40(28)	<b>DRB1*13</b>	2 (1)	DRB3*02:02	35(18)			DQA1*04	96(48)	DQA1*05	96(48)
DRB1*03(DR17)	54(33)			DRB3*02	74(28)			<b>DQA1*05</b>	2 (1)	<b>DQA1*06</b>	2 (1)
DRB1*03	44(27)			DRB3*PRESENT	26(10)			<b>DQA1*01</b>	2 (1)	<b>DQA1*03</b>	2 (1)
<b>DRB1*04</b>	2 (1)										
DQB1				DPA1				DPB1			
68 labs High / 60 labs Low		% (n)		52 labs High / 36 labs Low		% (n)		64 labs High / 32 labs Low		% (n)	
DQB1*02:01:01	48(33)	DQB1*03:19:01:01	6 (4)	DPA1*01:03:01:01	2 (1)	DPA1*02:01:01:08	11(6)	DPB1*17:01:01:01	2 (1)		
DQB1*02:01:01G	7 (5)	DQB1*03:19:01	42(28)	DPA1*01:03:01	52(27)	DPA1*02:01:01	48(25)	DPB1*17:01:01	55(35)		
DQB1*02:01P	6 (4)	DQB1*03:01:01G	6 (4)	DPA1*01:03:01G	2 (1)	DPA1*02:01:01G	2 (1)	DPB1*17:01:01G	5 (3)		
DQB1*02:01	38(26)	DQB1*03:01P	6 (4)	DPA1*01:03P	8 (4)	DPA1*02:01P	6 (3)	DPB1*17:01P	6 (4)		
DQB1*02	98(59)	DQB1*03:19	38(25)	DPA1*01:03	36(19)	DPA1*02:01	33(17)	DPB1*17:01	33(21)		
<b>DQB1*06</b>	2 (1)	DQB1*03(DQ7)	47(28)	DPA1*01	100(36)	DPA1*02	100(36)	DPB1*17	97(31)		
		DQB1*03	53(32)					<b>DPB1*131</b>	3 (1)		

Discrepant results from consensus are in bold and italicized in Tables 1-6

**Table 3. Summary of the 180th DNA Exchange (DNA #1103)**

A				B				C			
71 labs High / 56 labs Low		% (n)		69 labs High / 55 labs Low		% (n)		69 labs High / 54 labs Low		% (n)	
A*02:11:01:01	14(10)	A*24:53	97(68)	B*40:04:01:01	13(9)	B*52:01:02	62(43)	C*03:04:01:02	1 (1)	C*15:02:01:01	1 (1)
A*02:11:01	46(33)	<b>A*24:02</b>	3 (2)	B*40:04:01	48(33)	B*52:01P	1 (1)	C*03:04:01:01	1 (1)	C*15:02:01	56(39)
A*02:11:01G	1 (1)	A*24	98(55)	B*40:04	38(26)	B*52:01	36(25)	C*03:04:01	57(39)	C*15:02:01G	6 (4)
A*02:11P	1 (1)	<b>A*34</b>	2 (1)	B*40	49(27)	B*52	98(54)	C*03:04:01G	4 (3)	C*15:02P	1 (1)
A*02:11	37(26)			B*40(B61)	49(27)	<b>B*57</b>	2 (1)	C*03:04	34(23)	C*15:02	35(24)
A*02	98(55)			<b>B*51</b>	2 (1)			<b>C*03:02</b>	1 (1)	C*15	98(53)
<b>A*23</b>	2 (1)							C*03(Cw10)	52(28)	<b>C*18</b>	2 (1)
								C*03	46(25)		
								<b>C*04</b>	2 (1)		
DRB1				DRB3/4/5				DQA1			
71 labs High / 57 labs Low		% (n)		52 labs High / 37 labs Low		% (n)		61 labs High / 45 labs Low		% (n)	
DRB1*04:04:01	47(33)	DRB1*08:02:01	59(42)	DRB4*01:03:01:01	2 (1)			DQA1*03:01:01:01	11(7)	DQA1*04:01:01	59(36)
DRB1*04:04:01G	7 (5)	DRB1*08:02P	3 (2)	DRB4*01:01:01	48(25)			DQA1*03:01:01	49(30)	DQA1*04:01:01G	3 (2)
DRB1*04:04P	13(9)	DRB1*08:02	37(26)	DRB4*01:01:01G	4 (2)			DQA1*03:01:01G	3 (2)	DQA1*04:01P	2 (1)
DRB1*04:04	33(23)	<b>DRB1*08:01</b>	1 (1)	DRB4*01:01P	17(9)			DQA1*03:01	36(22)	DQA1*04:01	36(22)
DRB1*04	100(57)	DRB1*08	98(55)	DRB4*01:03	27(14)			DQA1*03	100(45)	DQA1*04	98(44)
		<b>DRB1*04</b>	2 (1)	<b>DRB4*01:01</b>	2 (1)					<b>DQA1*03</b>	2 (1)
				DRB4*01	73(27)						
				<b>DRB3*02</b>							
				DRB4*PRESENT							
				<b>DRB3*PRESENT</b>							
DQB1				DPA1				DPB1			
70 labs High / 55 labs Low		% (n)		53 labs High / 35 labs Low		% (n)		66 labs High / 33 labs Low		% (n)	
DQB1*03:02:01:01	1 (1)	DQB1*04:02:01	46(32)	DPA1*01:03:01:01	2 (1)			DPB1*04:02:01:01	2 (1)		
DQB1*03:02:01	44(31)	DQB1*04:02:01G	6 (4)	DPA1*01:03:01:05	2 (1)			DPB1*04:02:01	41(27)		
DQB1*03:02:01G	6 (4)	DQB1*04:02P	9 (6)	DPA1*01:03:01	60(32)			DPB1*04:02:01G	12(8)		
DQB1*03:02P	9 (6)	DQB1*04:02	40(28)	DPA1*01:03P	4 (2)			DPB1*04:02P	18(12)		
DQB1*03:02	40(28)	DQB1*04	100(55)	DPA1*01:03	32(17)			DPB1*04:02	27(18)		
DQB1*03(DQ8)	54(30)			DPA1*01	100(35)			DPB1*04(DP402)	94(31)		
DQB1*03	45(25)							<b>DPB1*04(DP401)</b>	3 (1)		
								<b>DPB1*02(DP201)</b>	3 (1)		

Discrepant results from consensus are in bold and italicized in Tables 1-6

**Table 4. Summary of the 180th DNA Exchange (DNA #1104)**

A		B				C					
70 labs High / 55 labs Low	% (n)	70 labs High / 55 labs Low	% (n)	68 labs High / 53 labs Low	% (n)						
A*01:01:01:01	4 (3)	A*02:01:01:01	3 (2)	B*08:01:01:01	3 (2)	B*35:17:01:01	13(9)	C*04:01:01	57(39)	C*07:01:01:01	1 (1)
A*01:01:01	54(38)	A*02:01:01	56(39)	B*08:01:01	53(37)	B*35:17:01	46(32)	C*04:01:01G	7 (5)	C*07:01:01	57(38)
A*01:01:01G	6 (4)	A*02:01:01G	6 (4)	B*08:01:01G	4 (3)	B*35:17:01G	1 (1)	C*04:01	35(24)	C*07:01:01G	6 (4)
A*01:01	36(25)	A*02:01	36(25)	B*08:01P	3 (2)	B*35:17	36(25)	C*04	98(52)	C*07:01	36(24)
A*01	98(54)	A*02	100(55)	B*08:01	37(26)	<b>B*35:05</b>	1 (1)	<b>C*05</b>	2 (1)	C*07	98(52)
<b>A*03</b>	2 (1)			B*08	98(54)	<b>B*35:01</b>	1 (1)			<b>C*06</b>	2 (1)
				<b>B*44</b>	2 (1)	B*35	98(54)				
						<b>B*47</b>	2 (1)				

DRB1		DRB3/4/5				DQA1					
71 labs High / 56 labs Low	% (n)	53 labs High / 37 labs Low	% (n)	61 labs High / 45 labs Low	% (n)						
DRB1*03:01:01:01	1 (1)	DRB1*08:02:01	59(42)	DRB3*01:01:02:01	2 (1)			DQA1*04:01:01	56(34)	DQA1*05:01:01:01	2 (1)
DRB1*03:01:01	41(29)	DRB1*08:02P	3 (2)	DRB3*01:01:02	38(20)			DQA1*04:01:01G	3 (2)	DQA1*05:01:01	56(34)
DRB1*03:01:01G	7 (5)	DRB1*08:02	38(27)	DRB3*01:01:02G	6 (3)			DQA1*04:01P	3 (2)	DQA1*05:01:01G	3 (2)
DRB1*03:01P	13(9)	DRB1*08	96(54)	DRB3*01:01P	9 (5)			DQA1*04:01	38(23)	DQA1*05:01P	2 (1)
DRB1*03:01	38(27)	<b>DRB1*13</b>	2 (1)	DRB3*01:01	45(24)			DQA1*04	98(44)	DQA1*05:01	38(23)
DRB1*03(DR17)	54(30)	<b>DRB1*07</b>	2 (1)	DRB3*01	78(29)			<b>DQA1*02</b>	2 (1)	DQA1*05	98(44)
DRB1*03	45(25)			DRB3*PRESENT	19(7)					<b>DQA1*03</b>	2 (1)
<b>DRB1*04</b>	2 (1)			<b>DRB4*PRESENT</b>	3 (1)						

DQB1		DPA1				DPB1					
70 labs High / 55 labs Low	% (n)	53 labs High / 37 labs Low	% (n)	67 labs High / 35 labs Low	% (n)						
DQB1*02:01:01	46(32)	DQB1*04:02:01:04	3 (2)	DPA1*01:03:01:01	4 (2)			DPB1*02:01:02	36(24)		
DQB1*02:01:01G	9 (6)	DQB1*04:02:01	41(29)	DPA1*01:03:01	57(30)			DPB1*02:01:02G	10(7)		
DQB1*02:01P	6 (4)	DQB1*04:02:01G	6 (4)	DPA1*01:03P	6 (3)			DPB1*02:01P	18(12)		
DQB1*02:01	39(27)	DQB1*04:02P	9 (6)	DPA1*01:03	34(18)			DPB1*02:01	36(24)		
DQB1*02	100(55)	DQB1*04:02	41(29)	DPA1*01	100(37)			DPB1*02(DP201)	100(35)		
		DQB1*04	98(54)								
		<b>DQB1*03</b>	2 (1)								

Discrepant results from consensus are in bold and italicized in Tables 1-6

**Table 5. Summary of the 180th DNA Exchange (DNA #1105)**

A				B				C			
73 labs High / 51 labs Low		% (n)		71 labs High / 51 labs Low		% (n)		71 labs High / 49 labs Low		% (n)	
A*02:01:01:01	3 (2)	A*32:01:01:01	1 (1)	B*27:05:02	52(37)	B*44:02:01:01	1 (1)	C*02:02:02:01	1 (1)	C*05:01:01:02	1 (1)
A*02:01:01	54(39)	A*32:01:01	53(39)	B*27:05:02G	7 (5)	B*44:02:01	51(36)	C*02:02:02	55(38)	C*05:01:01	52(37)
A*02:01:01G	7 (5)	A*32:01:01G	7 (5)	B*27:05P	3 (2)	B*44:02:01G	7 (5)	C*02:02:02G	6 (4)	C*05:01:01G	7 (5)
A*02:01P	3 (2)	A*32:01P	3 (2)	B*27:05	38(27)	B*44:02P	3 (2)	C*02:02P	3 (2)	C*05:01P	3 (2)
A*02:01	33(24)	A*32:01	36(26)	B*27	100(51)	B*44:02	38(27)	C*02:02	35(24)	C*05:01	35(25)
A*02	100(51)	A*32	98(50)			B*44	98(50)	C*02	100(49)	<b>C*08:02</b>	1 (1)
		<b>A*01</b>	2 (1)			<b>B*07</b>	2 (1)			C*05	96(47)
										<b>C*06</b>	2 (1)
										<b>C*08</b>	2 (1)

  

DRB1				DRB3/4/5				DQA1			
72 labs High / 52 labs Low		% (n)		54 labs High / 34 labs Low		% (n)		61 labs High / 42 labs Low		% (n)	
DRB1*11:01:01	42(30)	DRB1*13:01:01	46(33)	DRB3*01:01:02:01	2 (1)	DRB3*02:02:01:01	2 (1)	DQA1*01:03:01:01	2 (1)	DQA1*05:05:01	55(33)
DRB1*11:01:01G	7 (5)	DRB1*13:01:01G	6 (4)	DRB3*01:01:02	28(15)	DRB3*02:02:01	28(15)	DQA1*01:03:01	56(34)	<b>DQA1*05:01:01</b>	2 (1)
DRB1*11:01P	12(9)	DRB1*13:01P	10(7)	DRB3*01:01:02G	15(8)	DRB3*02:02:01G	18(10)	DQA1*01:03:01G	3 (2)	DQA1*05:01:01G	3 (2)
DRB1*11:01	38(27)	DRB1*13:01	39(28)	DRB3*01:01P	20(11)	DRB3*02:02P	24(13)	DQA1*01:03P	3 (2)	DQA1*05:01P	3 (2)
<b>DRB1*11:12</b>	1 (1)	DRB1*13	94(49)	DRB3*01:01	35(19)	DRB3*02:02	28(15)	DQA1*01:03	36(22)	DQA1*05:05	35(21)
DRB1*11	98(51)	<b>DRB1*04</b>	4 (2)	DRB3*01	79(27)	DRB3*02	79(27)	DQA1*01	100(42)	<b>DQA1*05:01</b>	2 (1)
<b>DRB1*15</b>	2 (1)	<b>DRB1*03</b>	2 (1)	DRB3*PRESENT	18(6)	DRB3*PRESENT	18(6)			DQA1*05	98(41)
				<b>DRB4*PRESENT</b>	3 (1)	<b>DRB5*PRESENT</b>	3 (2)			<b>DQA1*03</b>	2 (1)

  

DQB1				DPA1				DPB1			
72 labs High / 51 labs Low		% (n)		53 labs High / 37 labs Low		% (n)		69 labs High / 32 labs Low		% (n)	
DQB1*03:01:01:01	1 (1)	DQB1*06:03:01:01	4 (3)	DPA1*01:03:01:02	2 (1)			DPB1*03:01:01	40(27)	DPB1*04:01:01:01	1 (1)
DQB1*03:01:01	44(31)	DQB1*06:03:01	37(27)	DPA1*01:03:01:01	2 (1)			DPB1*03:01:01G	18(12)	DPB1*04:01:01	27(19)
DQB1*03:01:01G	9 (6)	DQB1*06:03:01G	3 (2)	DPA1*01:03:01	57(31)			DPB1*03:01P	19(13)	DPB1*04:01:01G	20(14)
DQB1*03:01P	11(8)	DQB1*06:03P	10(7)	DPA1*01:03P	7 (4)			DPB1*03:01	23(16)	DPB1*04:01P	26(18)
<b>DQB1*06:03P</b>	1 (1)	DQB1*06:03	46(33)	DPA1*01:03	31(17)			DPB1*03	100(31)	DPB1*04:01	25(17)
DQB1*03:01	33(23)	DQB1*06	100(51)	DPA1*01	100(34)					DPB1*04(DP401)	100(32)
DQB1*03	55(28)										
DQB1*03	2 (1)										
DQB1*03	43(22)										

Discrepant results from consensus are in bold and italicized in Tables 1-6

**Table 6. Summary of the 180th DNA Exchange (DNA #1106)**

A				B				C			
69 labs High / 52 labs Low		% (n)		70 labs High / 52 labs Low		% (n)		69 labs High / 50 labs Low		% (n)	
A*02:01:01:01	3 (2)			B*40:01:02	53(37)	B*44:02:01:01	6 (4)	C*03:04:01:01	3 (2)	C*05:01:01:02	1 (1)
A*02:01:01	55(38)			B*40:01:01G	7 (5)	B*44:02:01	51(35)	C*03:04:01	53(36)	C*05:01:01	52(36)
A*02:01:01G	6 (4)			B*40:01P	3 (2)	<b>B*40:02:01</b>	1 (1)	C*03:04:01G	6 (4)	C*05:01:01G	6 (4)
A*02:01P	1 (1)			B*40:01	36(25)	B*44:02:01G	4 (3)	C*03:04P	1 (1)	C*05:01P	3 (2)
A*02:01	33(23)			<b>B*07:02</b>	1 (1)	B*44:02P	3 (2)	C*03:04	35(24)	C*05:01	36(25)
<b>A*03:01</b>	1 (1)			B*40	50(26)	B*44:02	33(23)	<b>C*07:02</b>	1 (1)	<b>C*07:02</b>	1 (1)
A*02	98(51)			B*40(B60)	50(26)	<b>B*39:05</b>	1 (1)	C*03(Cw10)	50(25)	C*05	98(49)
<b>A*24</b>	2 (1)					B*44	100(52)	C*03	50(25)	<b>C*08</b>	2 (1)
<b>DRB1</b>				<b>DRB3/4/5</b>				<b>DQA1</b>			
71 labs High / 53 labs Low		% (n)		54 labs High / 33 labs Low		% (n)		60 labs High / 44 labs Low		% (n)	
DRB1*13:01:01	22(16)	DRB1*14:54:01	23(16)	DRB3*01:01:02:01	2 (1)	DRB3*02:02:01:01	2 (1)	DQA1*01:03:01:01	2 (1)	DQA1*01:04:01	56(33)
DRB1*13:01:01G	8 (6)	DRB1*14:01:01G	12(8)	DRB3*01:01:02	28(15)	DRB3*02:02:01	24(13)	DQA1*01:03:01	55(33)	DQA1*01:01:01G	3 (2)
DRB1*13:01P	11(8)	DRB1*14:01P	14(10)	DRB3*01:01:02G	15(8)	DRB3*02:02:01G	18(10)	DQA1*01:03:01G	3 (2)	DQA1*01:01P	3 (2)
DRB1*13:01	56(40)	DRB1*14:54	46(32)	DRB3*01:01P	20(11)	DRB3*02:02P	26(14)	DQA1*01:03P	3 (2)	DQA1*01:04	34(20)
<b>DRB1*04:07</b>	1 (1)	DRB1*14:01	3 (2)	DRB3*01:01	33(18)	DRB3*02:02	28(15)	DQA1*01:03	35(21)	<b>DQA1*01:02</b>	2 (1)
DRB1*13	98(52)	DRB1*15:01	1 (1)	<b>DRB4*01:03</b>	2 (1)	<b>DRB5*01:01</b>	2 (1)	<b>DQA1*01:02</b>	2 (1)	<b>DQA1*03:01</b>	2 (1)
<b>DRB1*11</b>	2 (1)	DRB1*14	98(52)	DRB3*01	76(26)	DRB3*02	76(26)	DQA1*01	100(44)	DQA1*01	98(43)
		<b>DRB1*08</b>	2 (1)	DRB3*PRESENT	23(8)	DRB3*PRESENT	21(7)			<b>DQA1*04</b>	2 (1)
						<b>NP</b>	3 (1)				
<b>DQB1</b>				<b>DPA1</b>				<b>DPB1</b>			
70 labs High / 52 labs Low		% (n)		54 labs High / 35 labs Low		% (n)		67 labs High / 33 labs Low		% (n)	
DQB1*05:03:01:01	1 (1)	DQB1*06:03:01:01	3 (2)	DPA1*01:03:01:04	6 (3)			DPB1*04:01:01:01	1 (1)		
DQB1*05:03:01	41(29)	DQB1*06:03:01	39(27)	DPA1*01:03:01:01	2 (1)			DPB1*04:01:01	31(21)		
DQB1*05:03:01G	7 (5)	DQB1*06:03:01G	4 (3)	DPA1*01:03:01	48(26)			DPB1*04:01:01G	13(9)		
DQB1*05:03P	7 (5)	DQB1*06:03P	9 (6)	DPA1*01:03P	6 (3)			DPB1*04:01P	18(12)		
DQB1*05:03	40(28)	DQB1*06:03	44(31)	DPA1*01:03	39(21)			DPB1*04:01	34(23)		
<b>DQB1*03:02</b>	1 (1)	<b>DQB1*06:02</b>	1 (1)	DPA1*01	100(35)			<b>DPB1*02:01</b>	1 (1)		
<b>DQB1*06:01</b>	1 (1)	DQB1*06	100(52)					DPB1*04(DP401)	100(33)		
DQB1*05	98(51)										
<b>DQB1*04</b>	2 (1)										

Discrepant results from consensus are in bold and italicized in Tables 1-6





**Table 7. Individual laboratory results for DNA # 1101 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4237	24:02:01	26:01:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01P	13:03	3*02:02P	4*01:03:01:02N	02:01	05:05	03:01P	03:03P	01:03P	01:03P	04:01P	04:01P
4345	24:02:01:01	26:01:01:01	44:02:01:01	55:01P	03:03P	05:01P	07:01:01:01	13:03P	3*02:02:01:01	4*01:03:01:01	02:01:01	05:05:01	03:01P	03:03P	01:03:01:01	01:03:01:01	04:01:01:01	04:01:01:01
4582	24:02	26:01	44:02	55:01	03:03	05:01	07:01	13:03	3*02:02	4*01:03N	02:01	05:05	03:01	03:03	01:03	01:03	04:01	04:01
4585	NT	NT	NT	55:01	NT	NT	NT	NT	NT	NT	02:01	NT	03:01	03:03:02	01:03:01	01:03:01	04:01:01	04:01:01
6051	24:02:01	26:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01:01	13:03:01	3*02:02:01	4*01:03:01:02N	02:01:01	05:05:01	03:01:01	03:03:02	01:03:01	01:03:01	04:01:01	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	24:02:01	26:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01:01	13:03:01	3*02:02:01	4*01:03:01N	02:01:01	05:05:01	03:01:01	03:03:02	01:03:01	01:03:01	04:01P	04:01P
9227	24:02:01	26:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01:01	13:03:01	NT	NT	NT	NT	03:01:01	03:03:02	NT	NT	04:01:01	04:01:01
9230	24:02:01	26:01:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01:01	13:03	3*02:02:01	4*01:03:01:02N	02:01:01	05:05:01	03:01:01	03:03:02	01:03	01:03:01	04:01	04:01:01
9231	24:02:01	26:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01:01	13:03:01	3*02:02:01	4*01:03:01	02:01:01	05:05:01	03:01:01	03:03:02	01:03:01	01:03:01	04:01:01	04:01:01
14982	24:02:01	26:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01:01	13:03:01	3*02:02:01G	4*01:03:01N	02:01:01	05:05:01	03:01:01	03:03:02	01:03:01	01:03:01	04:01:01	04:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	24:02:01	26:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01:01	13:03:01	3*02:02:01G	4*01:01:01G	02:01:01	05:05:01	03:01:01	03:03:02	01:03:01	01:03:01	04:01:01	04:01:01

Final Consensus based on High Resolution	24:02	26:01	44:02	55:01	03:03	05:01	07:01	13:03	3*02:02	4*01:03:01:02N	02:01	05:05	03:01	03:03	01:03	01:03	04:01	04:01
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**Table 8. Individual laboratory results for DNA # 1101 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
155	24:02:01G	26:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	24:02	26:01	44:02	55:01	03:03	05:01	07:01	13:03	NT	NT	NT	NT	03:01:01G	03:03	NT	NT	NT	NT
176	24:02	26:01	44:02	55:01	03:03	05:01	07:01	13:03	NT	NT	02:01	05:05	03:01	03:03	01:03	01:03	04:01	04:01
207	24:02:01	26:01:01	44:02:01	55:01:01	03:03:01	05:01:01	07:01:01	13:03:01	3*02:02:01	4*01:03:01N	02:01:01	05:05:01	03:01:01	03:03:02	01:03:01	01:03:01	04:01:01	04:01:01
209	24:02P	26:01P	44:02P	55:01P	03:03P	05:01P	07:01P	13:03P	3*02:02P	4*01:03:01:02N	02:01	05:01P	03:01P	03:03P	01:03P	01:03P	04:01P	04:01P
239	NT	NT	NT	NT	03:03	05:01	07:01	13:03	3*02:02	4*01:03:01:02N	02:01	NT	NT	03:03	NT	NT	04:01	04:01
262	NT	NT	NT	NT	NT	NT	07:01	13:03	NT	NT	02:01	05:05	03:01	03:03	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	07:01	13:03	NT	NT	02:01	05:05	03:01	03:03	NT	NT	NT	NT
292	24:02	26:01	44:02	55:01	03:03	05:01	07:01	13:03	NT	NT	NT	NT	03:01	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
313	24:02	26:01	44:02	55:01	03:03	05:01	07:01	13:03	NT	NT	NT	NT	03:01	03:03	NT	NT	NT	NT
317	24:02	26:01	44:02	55:01	03:03	05:01	07:01	13:03	3*02:02	4*01:03:01:02N	02:01	05:01	03:01	03:03	01:03	01:03	04:01	51:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
4420	24:02	26:01	44:02	55:01	03:03	05:01	07:01	NT	3*02:02	NT	02:01	05:05	03:01	03:03	01:03	01:03	04:01	04:01
Final Consensus	24:02	26:01	44:02	55:01	03:03	05:01	07:01	13:03	3*02:02	4*01:03:01:02N	02:01	05:05	03:01	03:03	01:03	01:03	04:01	04:01

**Table 9. Individual laboratory results for DNA # 1101 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	24	26	44	55	03(Cw9)	05	07	13	3*PRESENT	4*01N	NT	NT	03(DQ7)	03(DQ9)	NT	NT	NT	NT
134	24	26	44	55	03(Cw9)	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	NT	NT	04(DP401)	04(DP401)
138	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
139	24	26	44	55	03	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	01	NT	04(DP401)	NT
144	24	26	44	55	03	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
147	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
148	24	26	44	55	03	05	07	13	NT	NT	NT	NT	03	03	NT	NT	NT	NT
158	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
162	24	26	44	55	03	05	07	13	NT	NT	NT	NT	03	03	NT	NT	NT	NT
189	24	26	44	55	03(Cw9)	05	07	13	3*02	4*NULL	02	05	03(DQ7)	03(DQ9)	01	01	NT	NT
190	24	26	44	55	03(Cw9)	05	07	13	3*PRESENT	4*PRESENT	NT	NT	03(DQ7)	03(DQ9)	NT	NT	NT	NT
192	24	26	44	55	03	05	07	13	3*02	4*01N	02	05	03	03	01	01	04(DP401)	04(DP401)
199	NT	NT	NT	NT	NT	NT	07	13	3*PRESENT	4*PRESENT	NT	NT	03	04	NT	NT	NT	NT
205	24	26	44	55	03	05	07	13	3*02	4*01	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
207	24	26	44	55	03(Cw9)	05	07	13	3*02	4*NULL	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	24	26	44	55	03	05	07	13	3*02	4*01N	02	05	03	03	01	01	04(DP401)	04(DP401)
228	02	30	14	39	07	08	07	08	NP	4*PRESENT	02	04	02	04	NT	NT	NT	NT
239	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
242	24	26	44	55	03	05	07	13	3*PRESENT	4*PRESENT	02	05	03	03	NT	NT	NT	NT
252	24	26	44	55	03	05	07	13	3*PRESENT	4*PRESENT	02	05	03	03	NT	NT	NT	NT
255	24	26	44	55	NT	NT	07	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	24	26	44	55	03	05	07	13	3*PRESENT	4*PRESENT	02	05	03	03	NT	NT	NT	NT
265	24	26	44	55	03(Cw9)	05	07	13	3*02	4*NULL	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
266	24	26	44	55	03	05	07	13	NT	NT	02	05	03	03	01	01	04(DP401)	04(DP401)
267	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
279	24	26	44	55	03	05	07	13	NT	NT	NT	NT	03(DQ7)	03(DQ9)	NT	NT	NT	NT
280	24	26	44	55	03	05	07	13	3*02	4*01	02	05	03	03	01	01	04(DP401)	04(DP401)
285	24	26	44	55	03	05	07	13	NT	NT	02	05	03	03	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	24	26	44	55	03	05	07	13	NT	NT	02	05	03	03	NT	NT	NT	NT
292	24	26	44	55	03	05	07	13	NT	NT	02	05	03	03	NT	NT	NT	NT
293	24	26	44	55	03	05	07	13	3*PRESENT	4*PRESENT	02	05	03	03	01	01	23	NT
294	24	26	44	55	03(Cw9)	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	NT	NT	NT	NT
304	24	26	44	55	03	05	07	13	NT	NT	02	05	03	03	NT	NT	NT	NT
305	24	26	44	55	03(Cw9)	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	NT	NT	NT	NT
309	24	26	44	55	03	05	07	13	3*02	4*01	02	05	03	03	01	01	04(DP401)	04(DP401)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	24	26	44	55	03	05	07	13	NT	NT	02	05	03	03	01	01	04(DP401)	04(DP401)
334	24	26	44	55	03(Cw9)	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
340	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
343	24	26	44	55	03	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
345	24	26	44	55	NT	NT	07	13	NT	NT	NT	NT	03	03	NT	NT	04(DP401)	04(DP401)
349	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	NT	NT	03(DQ7)	03(DQ9)	NT	NT	NT	NT
350	24	26	44	55	03	05	07	13	NT	NT	02	05	03	03	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	24	26	44	55	03	05	07	13	3*02	4*01	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
615	24	26	44	55	03(Cw9)	05	07	13	3*02	4*NULL	02	05	03(DQ7)	03(DQ9)	01	01	NT	NT
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
805	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	NT	NT
1251	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
1647	24	26	44	55	03(Cw9)	05	07	13	3*PRESENT	4*NULL	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
2347	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)

**Table 9. Individual laboratory results for DNA # 1101 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	24	26	44	55	03(Cw9)	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	NT	NT	NT	NT
3600	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	NT	NT
4237	24	26	44	55	03(Cw9)	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
4420	24	26	44	55	03	05	07	13	3*02	4*01	02	05	03	03	01	01	04(DP401)	04(DP401)
4545	24	26	44	55	03	05	07	13	NT	NT	NT	NT	03	03	NT	NT	NT	NT
4582	24	26	44	55	03	05	07	13	3*02	4*01N	02	05	03	03	01	01	04(DP401)	04(DP401)
4585	24	26	44	55	03	05	07	13	3*02	4*01	02	05	03	03	01	01	04(DP401)	04(DP401)
8050	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
9221	24	26	44	55	03(Cw9)	05	07	13	3*02	4*01N	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
9222	24	26	44	55	03	05	07	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	24	26	44	55	03(Cw9)	05	07	13	3*02	4*NULL	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
9227	24	26	44	55	03	05	07	13	NT	NT	NT	NT	03	03	NT	NT	NT	NT
9231	24	26	44	55	03(Cw9)	05	07	13	NT	NT	02	05	03(DQ7)	03(DQ9)	01	01	04(DP401)	04(DP401)
Final Consensus	24	26	44	55	03	05	07	13	3*02	NG	02	05	03	03	01	01	04(DP401)	04(DP401)



**Table 10. Individual laboratory results for DNA # 1102 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3849	02:05:01:01	68:01:01:02	27:03	53:01:01:01	02:02:02	04:01:01	03:01	08:04:01	3*02:02:01	NP	04:01:02	05:01:01	02:01:01	03:19:01:01	01:03:01	02:01:01:08	17:01:01	17:01:01
4237	02:05P	68:01P	27:03	53:01:01:01	02:02:02	04:01:01	03:01P	08:04:01	3*02:02P	NT	04:01P	05:01P	02:01P	03:19	01:03P	02:01P	17:01:01	17:01:01
4345	02:05:01:01	68:01:01:02	27:03	53:01P	02:02P	04:01:01G	03:01:01:01	08:04P	3*02:02:01:01	3*02:02:01:01	04:01P	05:01P	02:01P	03:01P	01:03:01:01	02:01P	17:01P	17:01P
4582	02:05	68:01	27:03	53:01	02:02	04:01	03:01	08:04	3*02:02	NP	04:01	05:01	02:01	03:19	01:03	02:01	17:01	17:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:05:01	68:01:01	27:03	53:01:01	02:02:02	04:01:01	03:01:01	08:04:01	3*02:02:01	NP	04:01:02	05:01:01	02:01:01	03:19:01	01:03:01	02:01:01	17:01:01	17:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:05:01	68:01:01	27:03	53:01:01	02:02:02	04:01:01	03:01:01	08:04:01	3*02:02:01	NP	04:01:02	05:01:01	02:01:01	03:19:01	01:03:01	02:01:01	17:01P	17:01P
9227	02:05:01	68:01:01	27:03	53:01:01	02:02:02	04:01:01	03:01:01	08:04:01	NT	NT	NT	NT	02:01:01	03:19:01	NT	NT	17:01:01	17:01:01
9230	02:05:01:01	68:01:01:02	27:03	53:01:01:01	02:02:02	04:01:01	03:01	08:04:01	3*02:02	NP	04:01:02	05:01:01	02:01:01	03:19	01:03	02:01:01:08	17:01:01	17:01:01:02
9231	02:05:01G	68:01:01G	27:03	53:01:01	02:02:02	04:01:01	03:01:01	08:04:01	3*02:02:01	NP	04:01:02	05:01:01	02:01:01	03:19:01	01:03:01	02:01:01	17:01:01	17:01:01
14982	02:05:01	68:01:01	27:03	53:01:01	02:02:02	04:01:01	03:01:01	08:04:01	3*02:02:01G	NP	04:01:02	05:01:01	02:01:01	03:19:01	01:03:01	02:01:01	17:01:01	17:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	02:05:01G	68:01:01G	27:03	53:01:01	02:02:02	04:01:01	03:01:01	08:04:01	3*02:02:01G	NT	04:01:02	05:01:01	02:01:01	03:19:01	01:03:01	02:01:01	17:01:01	17:01:01
Final Consensus based on High Resolution	02:05	68:01	27:03	53:01	02:02	04:01	03:01	08:04	3*02:02	NP	04:01	05:01	02:01	03:19	01:03	02:01	17:01	17:01

**Table 11. Individual laboratory results for DNA # 1102 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
155	02:05	68:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:05	68:01	27:03	53:01	02:02	04:01:01G	03:01	08:04	NT	NT	NT	NT	02:01	03:01:01G	NT	NT	NT	NT
176	02:05	68:01	27:03	53:01	02:02	04:01	03:01	08:04	NT	NT	04:01	05:01	02:01	03:19	01:03	02:01	17:01	17:01
207	02:05:01	68:01:01	27:03	53:01:01	02:02:02	04:01:01	03:01:01	08:04:01	3*02:02:01	NP	04:01:02	05:01:01	02:01:01	03:19:01	01:03:01	02:01:01	17:01:01	17:01:01
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	68:01	27:03	53:01	NT	NT	03:01	08:04	NT	NP	04:01	05:01	02:01	NT	NT	NT	17:01	17:01
262	NT	NT	NT	NT	NT	NT	03:01	08:04	NT	NT	04:01	05:01	02:01	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	03:01	08:04	NT	NT	04:01	05:01	02:01	03:19	NT	NT	NT	NT
292	02:05	68:01	27:03	53:01	02:02	04:01	03:01	08:04	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	05:01	NT	NT	NT	NT	NT	NT
313	02:05	68:01	27:03	53:01	02:02	04:01	03:01	08:04	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
317	02:05	68:01	27:05	53:01	02:02	04:01	03:01	08:04	3*02:02	NP	04:01	05:01	02:01	03:01	01:03	02:01	17:01	17:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	17:01P	17:01P
4420	02:05	NT	NT	53:01	NT	04:01	03:01	08:04	3*02:02	3*02:02	04:01	05:01	NT	NT	01:03	02:01	NT	NT
<b>Final Consensus</b>	02:05	68:01	27:03	53:01	02:02	04:01	03:01	08:04	3*02:02	NP	04:01	05:01	02:01	03:19	01:03	02:01	17:01	17:01



**Table 12. Individual laboratory results for DNA # 1102 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	68	27	53	02	04	03(DR17)	08	3*PRESENT	NP	NT	NT	02	03(DQ7)	NT	NT	NT	NT
134	02	68	27	53	02	04	03(DR17)	08	NT	NT	04	05	02	03(DQ7)	NT	NT	NT	NT
138	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
139	02	68	27	53	02	04	03(DR17)	08	NT	NT	04	05	02	03(DQ7)	01	02	17	NT
144	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
147	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03	01	02	17	17
148	02	68	27	53	02	04	03	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
158	02	68	27	53	NT	NT	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
162	02	68	27	53	02	04	03	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
189	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	NT	NT
190	02	68	27	53	02	04	03(DR17)	08	3*PRESENT	NP	NT	NT	02	03(DQ7)	NT	NT	NT	NT
192	02	68	27	53	02	04	03	08	3*02	NP	04	05	02	03	01	02	17	17
199	NT	NT	NT	NT	NT	NT	03	08	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
205	02	68	27	53	02	04	03	08	3*02	NP	04	05	02	03	01	02	17	17
207	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
209	02	68	27	53	02	04	03	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
213	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	68	27	53	02	04	03	08	3*02	NP	04	05	02	03	01	02	17	17
228	01	68	15	35	01	07	04	13	3*PRESENT	4*PRESENT	01	03	06	03	NT	NT	NT	NT
239	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
242	02	68	27	53	02	04	03	08	3*PRESENT	NT	04	05	02	03	NT	NT	NT	NT
252	02	68	27	53	02	04	03	08	3*PRESENT	NP	04	05	02	03	NT	NT	NT	NT
255	02	68	27	53	NT	NT	03(DR17)	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	68	27	53	02	04	03	08	3*PRESENT	NP	04	05	02	03	NT	NT	NT	NT
265	02	68	27	53	02	04	03(DR17)	08	3*02	3*02	04	05	02	03(DQ7)	01	02	17	17
266	02	68	27	53	02	04	03	08	NT	NT	04	05	02	03	01	02	17	17
267	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	02	68	27	53	02	04	03	08	3*02	NP	04	05	02	03	01	02	17	17
285	02	68	27	53	02	04	03	08	NT	NT	04	05	02	03	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02	68	27	53	02	04	03	08	NT	NT	04	05	02	03	NT	NT	NT	NT
292	02	68	27	53	02	04	03	08	NT	NT	04	05	02	03	NT	NT	NT	NT
293	02	68	27	53	02	04	03	08	3*PRESENT	NP	05	06	02	03	01	02	17	17
294	02	68	27	53	02	04	03(DR17)	08	NT	NT	04	05	02	03(DQ7)	NT	NT	NT	NT
304	02	68	27	53	02	04	03	08	NT	NT	04	05	02	03	NT	NT	NT	NT
305	02	68	27	53	02	04	03(DR17)	08	NT	NT	04	05	02	03(DQ7)	NT	NT	NT	NT
309	02	68	27	53	02	04	03	08	3*02	NP	04	05	02	03	01	02	17	17
311	02	68	27	53	02	04	03	08	3*PRESENT	NP	04	05	02	03	NT	NT	NT	NT
318	02	68	27	53	02	04	03	08	NT	NT	04	05	02	03	01	02	17	17
334	02	68	27	53	02	04	03(DR17)	08	NT	NT	04	05	02	03(DQ7)	01	02	17	17
340	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
343	02	68	27	53	02	04	03	08	NT	NT	04	05	02	03(DQ7)	01	02	131	17
345	02	68	27	53	NT	NT	03	08	NT	NT	NT	NT	02	03	NT	NT	17	17
349	02	68	27	53	02	04	03(DR17)	08	3*02	3*02	NT	NT	02	03(DQ7)	NT	NT	NT	NT
350	02	68	27	53	02	04	03	08	NT	NT	04	05	02	03	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03	01	02	17	17
615	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	NT	NT
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
805	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03	01	02	NT	NT
1251	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
1647	02	68	27	53	02	04	03(DR17)	08	3*PRESENT	NP	04	05	02	03(DQ7)	01	02	17	17
2347	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17

**Table 12. Individual laboratory results for DNA # 1102 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	02	68	27	53	02	04	03(DR17)	08	NT	NT	04	05	02	03	NT	NT	NT	NT
3600	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	NT	NT
4237	02	68	27	53	02	04	03(DR17)	08	NT	NT	04	05	02	03(DQ7)	01	02	17	17
4420	02	68	27	53	02	04	03	08	3*02	3*02	04	05	02	03	01	02	NT	NT
4545	02	68	27	53	02	04	03	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
4582	02	68	27	53	02	04	03	08	3*02	NP	04	05	02	03	01	02	17	17
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
9221	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	68	27	53	02	04	03(DR17)	08	3*02	NP	04	05	02	03(DQ7)	01	02	17	17
9227	02	68	27	53	02	04	03	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
9231	02	68	27	53	02	04	03(DR17)	08	NT	NT	04	05	02	03	01	02	17	17
<b>Final Consensus</b>	02	68	27	53	02	04	03	08	3*02	NP	04	05	02	03	01	02	17	17

**Table 13. Individual laboratory results for DNA # 1103 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01G	08:02:01	4*01:03:01	NT	03:01:01	04:01:01	03:02:01G	04:02:01G	01:03:01	01:03:01	04:02:01G	04:02:01G
16	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
124	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01:05	01:03:01:05	04:02:01	04:02:01
125	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	NT	NT	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
134	02:11:01	24:53	40:04	52:01:02	03:04:01	15:02:01	04:04P	08:02:01	4*01:01P	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02P	04:02P
138	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
139	02:11:01	24:53	40:04:01	52:01	03:04:01G	15:02:01G	04:04:01G	08:02:01	NT	NT	03:01:01G	04:01:01G	03:02:01G	04:02:01G	NT	NT	04:02:01G	04:02:01G
144	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
147	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
148	02:11:01	24:53	40:04:01	52:01:02	03:04:01G	15:02:01G	04:04:01G	08:02:01	NT	NT	NT	NT	03:02:01G	04:02:01G	NT	NT	04:02:01G	04:02:01G
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
160	02:11:01:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02P	04:02P
173	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
185	02:11:01G	24:53	40:04:01	52:01:02	03:04:01G	15:02:01G	04:04P	08:02P	4*01:01P	NP	03:01:01G	04:01:01G	03:02P	04:02P	NT	NT	04:02:01G	04:02:01G
188	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01	15:02:01	04:04P	08:02:01	NT	NT	03:01:01:01	04:01:01	03:02P	04:02P	01:03P	01:03P	04:02P	04:02P
189	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
190	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01	15:02:01	04:04P	08:02:01	NT	NT	NT	NT	03:02P	04:02P	NT	NT	04:02P	04:02P
192	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:01:01G	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01G	04:02:01G
205	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
213	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:01P	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
218	02:11	24:53	40:04	52:01	03:04	15:02:01G	04:04	08:02	NT	NT	NT	NT	03:02	04:02	NT	NT	04:02	04:02
219	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04P	08:02:01	4*01:01P	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02P	04:02P
227	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
240	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:01P	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	04:01	NT	NT	NT	NT	NT	NT
245	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
258	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03	NP	03:01:01:01	04:01:01	03:02	04:02	01:03:01	01:03:01	04:02:01	04:02:01
264	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
266	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01		03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02	04:02
267	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
279	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	NT	NT	03:01	04:01	03:02	04:02	NT	NT	04:02P	04:02P
290	02:11:01	24:53	40:04:01	52:01:02	NT	NT	04:04:01	08:02:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:01P	NP	03:01	04:01	03:02	04:02	NT	NT	04:02	04:02
298	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
316	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NT	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
340	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02P	04:02P
345	02:11:01	24:53	40:04	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	NT	NT	NT	NT	03:02	04:02	NT	NT	04:02:01	04:02:01
349	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	4*01:03:01	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
353	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	4*01:03:01	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
402	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NT	03:01	04:01	03:02	04:02	01:03	01:03	04:02P	04:02P
403	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01G	08:02:01	NT	NT	NT	NT	03:02:01G	04:02:01G	NT	NT	04:02:01G	04:02:01G
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
805	02:11	24:53	40:04	52:01	03:04	15:02	04:04P	08:02	4*01:01P	NP	03:01	04:01	03:02P	04:02P	01:03	01:03	04:02	04:02
1189	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
1686	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01:02	15:02:01:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
2015	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01	15:02:01	04:04P	08:02:01	NT	NT	03:01:01:01	04:01:01	03:02:01	04:02:01	NT	NT	04:02P	04:02P
2063	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	02:11	24:53	40:04	52:01	03:04	15:02	04:04:01G	08:02	4*01:01P	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02:01G	04:02:01G
2862	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NT	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
3410	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	NT	NT	NT	NT	03:02	04:02	NT	NT	04:02	04:02
3438	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
3614	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:01:01G	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02:01G	04:02:01G
3625	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NT	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
3849	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01:01	04:01:01	03:02:01:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01

**Table 13. Individual laboratory results for DNA # 1103 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4237	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01	15:02:01	04:04P	08:02:01	4*01:03	NP	03:01:01:01	04:01:01	03:02P	04:02P	01:03P	01:03P	04:02P	04:02P
4345	02:11P	24:53	40:04	52:01P	03:04:01:01	15:02P	04:04P	08:02P	4*01:03:01:01	4*01:03:01:01	03:01:01:01	04:01P	03:02P	04:02P	01:03:01:01	01:03:01:01	04:02:01:01	04:02:01:01
4582	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02P	04:02P
9227	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	NT	NT	NT	NT	03:02:01	04:02:01	NT	NT	04:02:01	04:02:01
9230	02:11:01:01	24:53	40:04:01:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03	NP	03:01:01:01	04:01:01	03:02	04:02	01:03:01	01:03:01	04:02:01	04:02:01
9231	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
14982	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:03:01	NT	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01

Final Consensus based on High Resolution	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
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**Table 14. Individual laboratory results for DNA # 1103 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
155	02:11	24:53	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	NT	NT	NT	NT	03:02	04:02	NT	NT	NT	NT
176	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	NT	NT	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
207	02:11:01	24:53	40:04:01	52:01:02	03:04:01	15:02:01	04:04:01	08:02:01	4*01:01P	NP	03:01:01	04:01:01	03:02:01	04:02:01	01:03:01	01:03:01	04:02:01	04:02:01
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	02:11	NT	NT	52:01	NT	15:02	NT	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	NT	NT	04:02	04:02
262	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	04:04	08:01	NT	NT	03:01	04:01	03:02	04:02	NT	NT	NT	NT
292	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	NT	NT	NT	NT	03:02	04:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	NT	NT	NT	NT	03:02	04:02	NT	NT	NT	NT
317	02:11	24:02	40:04	52:01	03:02	15:02	04:04	08:02	4*01:01	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	04:02P
4420	02:11	24:02	NT	NT	03:04	15:02	04:04	08:02	NT	NT	03:01	04:01	03:02	04:02	01:03	01:03	NT	NT
Final Consensus	02:11	24:53	40:04	52:01	03:04	15:02	04:04	08:02	4*01:03	NP	03:01	04:01	03:02	04:02	01:03	01:03	04:02	04:02

**Table 15. Individual laboratory results for DNA # 1103 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	24	40(B61)	52	03(Cw10)	15	04	08	4*PRESENT	NP	NT	NT	03(DQ8)	04	NT	NT	NT	NT
134	02	24	40	52	03	15	04	08	NT	NT	NT	NT	03	04	NT	NT	04(DP402)	04(DP402)
138	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
139	02	24	40(B61)	52	03(Cw10)	15	04	08	NT	NT	03	04	03(DQ8)	04	01	NT	04(DP402)	NT
144	02	24	40	52	03	15	04	08	4*01	NP	03	04	03(DQ8)	04	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	02	24	40	52	03	15	04	08	NT	NT	NT	NT	03	04	NT	NT	NT	NT
158	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
162	02	24	40	52	03	15	04	08	NT	NT	NT	NT	03	04	NT	NT	NT	NT
189	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	NT	NT
190	02	24	40(B61)	52	03(Cw10)	15	04	08	4*PRESENT	NP	NT	NT	03(DQ8)	04	NT	NT	NT	NT
192	02	24	40	52	03	15	04	08	4*01	NP	03	04	03	04	01	01	04(DP402)	04(DP402)
199	NT	NT	NT	NT	NT	NT	04	08	4*PRESENT	4*PRESENT	NT	NT	03	04	NT	NT	NT	NT
205	02	24	40	52	03	15	04	08	4*01	NP	03	04	03	04	01	01	04(DP402)	04(DP402)
207	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	02	24	40	52	03	15	04	08	3*PRESENT	4*PRESENT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	24	40	52	03	15	04	08	4*01	NP	03	04	03	04	01	01	04(DP402)	04(DP402)
228	23	34	51	57	04	18	04	04	4*PRESENT	4*PRESENT	03	03	03	04	NT	NT	NT	NT
239	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
242	02	24	40	52	03	15	04	08	4*PRESENT	NT	03	04	03	04	NT	NT	NT	NT
252	02	24	40	52	03	15	04	08	4*PRESENT	NP	03	04	03	04	NT	NT	NT	NT
255	02	24	40(B61)	52	NT	NT	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	24	40(B61)	52	03(Cw10)	15	04	08	3*02	4*01	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
266	02	24	40	52	03	15	04	08	NT	NT	03	04	03	04	01	01	04(DP402)	04(DP402)
267	02	24	40	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	02	24	40	52	03	15	04	08	4*01	NP	03	04	03	04	01	01	04(DP402)	04(DP402)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02	24	40	52	03	15	04	08	NT	NT	03	04	03	04	NT	NT	NT	NT
292	02	24	40	52	03	15	04	08	NT	NT	03	04	03	04	NT	NT	NT	NT
293	02	24	40	52	03	15	04	08	4*PRESENT	NP	03	04	03	04	01	01	04(DP401)	04(DP401)
294	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	NT	NT	04(DP402)	04(DP402)
304	02	24	40	52	03	15	04	08	NT	NT	03	04	03	04	NT	NT	NT	NT
305	02	24	40(B61)	52	03(Cw10)	15	04	08	NT	NT	03	04	03(DQ8)	04	NT	NT	NT	NT
309	02	24	40	52	03	15	04	08	4*01	NP	03	04	03	04	01	01	04(DP402)	04(DP402)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	24	40	52	03	15	04	08	NT	NT	03	04	03	04	01	01	04(DP402)	04(DP402)
334	02	24	40(B61)	52	03	15	04	08	NT	NT	03	04	03(DQ8)	04	01	01	02(DP201)	04(DP402)
340	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
343	02	24	40	52	03	15	04	NT	NT	NT	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
345	02	24	40	52	NT	NT	04	08	NT	NT	NT	NT	03	04	NT	NT	04(DP402)	04(DP402)
349	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	4*01	NT	NT	03(DQ8)	04	NT	NT	NT	NT
350	02	24	40	52	03	15	04	08	NT	NT	03	04	03	04	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03	04	01	01	04(DP402)	04(DP402)
615	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	NT	NT
726	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
732	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
805	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	NT	NT
1251	02	24	40	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
1647	02	24	40(B61)	52	03(Cw10)	15	04	08	4*PRESENT	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
2347	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)

**Table 15. Individual laboratory results for DNA # 1103 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	02	24	40(B61)	52	03(Cw10)	15	04	08	NT	NT	03	04	03(DQ8)	04	NT	NT	NT	NT
3600	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	NT	NT
4237	02	24	40(B61)	52	03(Cw10)	15	04	08	NT	NT	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
4420	02	24	NT	NT	03	15	04	08	4*01	4*01	03	04	03	04	01	01	NT	NT
4545	02	24	40	52	03	15	04	08	NT	NT	NT	NT	03	04	NT	NT	NT	NT
4582	02	24	40	52	03	15	04	08	4*01	NP	03	04	03	04	01	01	04(DP402)	04(DP402)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
9221	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	24	40(B61)	52	03(Cw10)	15	04	08	4*01	NP	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
9227	02	24	40	52	03	15	04	08	NT	NT	NT	NT	03	04	NT	NT	NT	NT
9231	02	24	40	52	03(Cw10)	15	04	08	NT	NT	03	04	03(DQ8)	04	01	01	04(DP402)	04(DP402)
Final Consensus	02	24	40	52	03	15	04	08	4*01	NP	03	04	03	04	01	01	04(DP402)	04(DP402)

**Table 16. Individual laboratory results for DNA # 1104 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01	NT	04:01:01	05:01:01	02:01:01G	04:02:01G	01:03:01	01:03:01	02:01:02G	02:01:02
16	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
124	01:01:01	02:01:01	08:01:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01	04:02:01	01:03:01:01	01:03:01	02:01:02	02:01:02
125	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	NT	NT	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
134	01:01:01	02:01:01	08:01:01	35:17	04:01:01	07:01:01	03:01P	08:02:01	3*01:01P	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01P	02:01P
138	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
139	01:01:01G	02:01:01G	08:01:01G	35:17:01	04:01:01G	07:01:01G	03:01:01G	08:02:01	NT	NT	04:01:01G	05:01:01G	02:01:01G	04:02:01G	NT	NT	02:01:02G	02:01:02G
144	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
147	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
148	01:01:01G	02:01:01G	08:01:01G	35:17:01:01	04:01:01G	07:01:01G	03:01:01G	08:02:01	NT	NT	NT	NT	02:01:01G	04:02:01G	NT	NT	02:01:02G	02:01:02G
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
160	01:01:01:01	02:01:01	08:01:01	35:17:01:01	04:01:01	07:01:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03:01	01:03:01	02:01P	02:01P
173	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
185	01:01:01G	02:01:01G	08:01:01G	35:17:01G	04:01:01G	07:01:01G	03:01P	08:02P	3*01:01P	NP	04:01:01G	05:01:01G	02:01P	04:02P	NT	NT	02:01:02G	02:01:02G
188	01:01:01	02:01:01	08:01:01	35:17:01:01	04:01:01	07:01:01	03:01P	08:02:01	NT	NT	04:01:01	05:01:01	02:01:01G	04:02P	01:03P	01:03P	02:01P	02:01P
189	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
190	01:01:01	02:01:01	08:01:01	35:17:01:01	04:01:01	07:01:01	03:01P	08:02:01	NT	NT	NT	NT	02:01P	04:02P	NT	NT	02:01P	02:01P
192	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02G	02:01:02G
205	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
213	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
218	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	NT	NT	NT	NT	02:01	04:02	NT	NT	02:01	02:01
219	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01P	08:02:01	3*01:01P	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01P	02:01P
227	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
240	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01P	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	05:01	NT	NT	NT	NT	NT	NT
245	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01P	02:01P
258	01:01:01	02:01:01	08:01:01	35:17:01:01	04:01:01	07:01:01	03:01	08:02:01	3*01:01	NP	04:01:01	05:01:01	02:01:01	04:02	01:03	01:03	02:01	02:01:02
264	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
266	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01	02:01
267	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
279	01:01	02:01	08:01	35:17	04:01	07:01	03:01P	08:02	NT	NT	04:01	05:01	02:01	04:02	NT	NT	02:01P	02:01P
290	01:01:01	02:01:01	08:01:01	35:17:01	NT	NT	03:01:01	08:02:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	NT	NT	02:01	02:01
298	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
316	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
340	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
345	01:01	02:01	08:01	35:17:01	04:01	07:01	03:01	08:02:01	NT	NT	NT	NT	02:01	04:02	NT	NT	02:01	02:01
349	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	3*01:01:02	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
353	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	3*01:01:02	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
402	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NT	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
403	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01G	08:02:01	NT	NT	NT	NT	02:01:01G	04:02:01G	NT	NT	02:01:02G	02:01:02G
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
805	01:01	02:01	08:01	35:17	04:01	07:01	03:01P	08:02	3*01:01	NP	04:01	05:01	02:01:01G	04:02P	01:03P	01:03P	02:01	02:01
1189	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
1686	01:01:01:01	02:01:01:01	08:01:01	35:17:01:01	04:01:01	07:01:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
2015	01:01:01	02:01:01	08:01:01:01	35:17:01:01	04:01:01	07:01:01	03:01P	08:02:01	NT	NT	04:01:01	05:01:01	02:01:01	04:02:01:04	NT	NT	02:01P	02:01P
2063	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	01:01	02:01	08:01	35:17	04:01	07:01	03:01:01G	08:02	3*01:01:02G	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
2862	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02G	NT	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
3410	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	NT	NT	NT	NT	02:01	04:02	NT	NT	02:01	02:01P
3438	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
3614	01:01	02:01	08:01	35:17	04:01	07:01	03:01:01G	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01:02G	02:01:02G
3625	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NT	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
3849	01:01:01	02:01:01	08:01:01	35:17:01:01	04:01:01	07:01:01	03:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01:04	01:03:01	01:03:01	02:01:02	1315:01



**Table 16. Individual laboratory results for DNA # 1104 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4237	01:01:01	02:01:01	08:01P	35:17	04:01:01	07:01:01	03:01P	08:02:01	3*01:01P	NT	04:01P	05:01P	02:01P	04:02P	01:03P	01:03P	02:01P	02:01P
4345	01:01:01:01	02:01:01:01	08:01P	35:17	04:01:01G	07:01	03:01:01:01	08:02P	3*01:01:02:01	3*01:01:02:01	04:01P	05:01:01:01	02:01P	04:02P	01:03:01:01	01:03:01:01	02:01P	02:01P
4582	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01P	02:01P
9227	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	NT	NT	NT	NT	02:01:01	04:02:01	NT	NT	02:01:02	NEW
9230	01:01:01	02:01:01	08:01:01	35:17:01:01	04:01:01	07:01:01	03:01	08:02:01	3*01:01	NP	04:01:01	05:01:01	02:01:01	04:02	01:03	01:03	02:01	02:01:02
9231	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
14982	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02G	NT	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02

Final Consensus based on High Resolution	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
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**Table 17. Individual laboratory results for DNA # 1104 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
155	01:01:01G	02:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	01:01	02:01	08:01	35:17	04:01:01G	07:01:01G	03:01	08:02	NT	NT	NT	NT	02:01	04:02	NT	NT	NT	NT
176	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	NT	NT	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
207	01:01:01	02:01:01	08:01:01	35:17:01	04:01:01	07:01:01	03:01:01	08:02:01	3*01:01:02	NP	04:01:01	05:01:01	02:01:01	04:02:01	01:03:01	01:03:01	02:01:02	02:01:02
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	08:01	NT	NT	NT	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	NT	NT	02:01	02:01
262	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	03:01	08:02	NT	NT	04:01	05:01	02:01	04:02	NT	NT	NT	NT
292	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	NT	NT	NT	NT	02:01	04:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	NT	NT	NT	NT	02:01	04:02	NT	NT	NT	NT
317	01:01	02:01	08:01	35:01	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	02:01P
4420	01:01	02:01	08:01	35:05	04:01	NT	03:01	08:02	3*01:01	3*01:01	04:01	05:01	NT	04:02	01:03	01:03	02:01	02:01
Final Consensus	01:01	02:01	08:01	35:17	04:01	07:01	03:01	08:02	3*01:01	NP	04:01	05:01	02:01	04:02	01:03	01:03	02:01	02:01

**Table 18. Individual laboratory results for DNA # 1104 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	01	02	08	35	04	07	03(DR17)	08	3*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
134	01	02	08	35	04	07	03	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
138	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
139	01	02	08	35	04	07	03(DR17)	08	NT	NT	04	05	02	04	01	NT	02(DP201)	NT
144	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
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
158	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
162	01	02	08	35	04	07	03	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
189	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	NT	NT
190	01	02	08	35	04	07	03(DR17)	08	3*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
192	01	02	08	35	04	07	03	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
199	NT	NT	NT	NT	NT	NT	03	08	3*PRESENT	3*PRESENT	NT	NT	02	04	NT	NT	NT	NT
205	01	02	08	35	04	07	03	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
207	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	01	02	08	35	04	07	03	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
228	03	02	44	47	05	06	04	07	4*PRESENT	4*PRESENT	02	03	02	03	NT	NT	NT	NT
239	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
242	01	02	08	35	04	07	03	08	3*PRESENT	NT	04	05	02	04	NT	NT	NT	NT
252	01	02	08	35	04	07	03	08	3*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
255	01	02	08	35	NT	NT	03(DR17)	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
266	01	02	08	35	04	07	03	08	NT	NT	04	05	02	04	01	01	02(DP201)	02(DP201)
267	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	01	02	08	35	04	07	03	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	01	02	08	35	04	07	03	08	NT	NT	04	05	02	04	NT	NT	NT	NT
292	01	02	08	35	04	07	03	08	NT	NT	04	05	02	04	NT	NT	NT	NT
293	01	02	08	35	04	07	03	08	3*PRESENT	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
294	01	02	08	35	04	07	03	08	3*01	NP	NT	NT	02	04	NT	NT	02(DP201)	02(DP201)
304	01	02	08	35	04	07	03	08	NT	NT	04	05	02	04	NT	NT	NT	NT
305	01	02	08	35	04	07	03(DR17)	08	NT	NT	04	05	02	04	NT	NT	NT	NT
309	01	02	08	35	04	07	03	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	01	02	08	35	04	07	03	08	NT	NT	04	05	02	04	01	01	02(DP201)	02(DP201)
334	01	02	08	35	04	07	03(DR17)	08	NT	NT	04	05	02	04	01	01	02(DP201)	02(DP201)
340	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
343	01	02	08	35	04	07	03	13	NT	NT	04	05	02	04	01	01	02(DP201)	02(DP201)
345	01	02	08	35	NT	NT	03	08	NT	NT	NT	NT	02	04	NT	NT	02(DP201)	02(DP201)
349	01	02	08	35	04	07	03(DR17)	08	3*01	3*01	NT	NT	02	04	NT	NT	NT	NT
350	01	02	08	35	04	07	03	08	NT	NT	04	05	02	04	NT	NT	NT	NT
402	01	02	08	35	04	07	03	08	NT	NT	04	05	02	04	01	01	02(DP201)	02(DP201)
519	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
615	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	NT	NT
726	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
732	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
805	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	NT	NT
1251	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
1647	01	02	08	35	04	07	03(DR17)	08	3*PRESENT	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
2347	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)

**Table 18. Individual laboratory results for DNA # 1104 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	01	02	08	35	04	07	03(DR17)	08	NT	NT	04	05	02	04	NT	NT	NT	NT
3600	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	NT	NT
4237	01	02	08	35	04	07	03(DR17)	08	NT	NT	04	05	02	04	01	01	02(DP201)	02(DP201)
4420	01	02	08	35	04	07	03	08	3*01	3*01	04	05	02	04	01	01	02(DP201)	02(DP201)
4545	01	02	08	35	04	07	03	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
4582	01	02	08	35	04	07	03	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
9221	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	01	02	08	35	04	07	03(DR17)	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)
9227	01	02	08	35	04	07	03	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
9231	01	02	08	35	04	07	03(DR17)	08	NT	NT	04	05	02	04	01	01	02(DP201)	02(DP201)
<b>Final Consensus</b>	01	02	08	35	04	07	03	08	3*01	NP	04	05	02	04	01	01	02(DP201)	02(DP201)

**Table 19. Individual laboratory results for DNA # 1105 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	32:01:01	27:05:02	44:02:01G	02:02:02	05:01:01G	11:01:01	13:01:01	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01G	06:03	01:03:01	01:03:01	03:01:01	04:01:01G
16	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
124	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01:02	01:03:01:03	03:01:01	04:01:01
125	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	NT	NT	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
134	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01P	13:01:01	3*01:01P	3*02:02P	01:03:01	05:05:01	03:01:01	06:03:01:01	01:03:01	01:03:01	03:01P	04:01P
138	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	03:01P	04:01P
139	02:01:01G	32:01:01G	27:05:02G	44:02P	02:02:02G	05:01:01G	11:01:01G	13:01:01G	NT	NT	01:03:01G	05:01:01G	06:03P	06:03P	NT	NT	03:01:01G	04:01:01G
144	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01P	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
147	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01
148	02:01:01G	32:01:01G	27:05:02G	44:02:01G	02:02:02G	05:01:01G	11:01:01G	13:01:01G	NT	NT	NT	NT	03:01:01G	06:03:01G	NT	NT	03:01:01G	04:01:01G
158	02:01P	32:01P	27:05P	44:02P	02:02P	05:01P	11:01P	13:01P	3*01:01P	3*02:02P	01:03P	05:01P	03:01P	06:03P	01:03P	01:03P	03:01P	04:01P
160	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01	3*02:02	01:03:01	05:05:01	03:01P	06:03:01	01:03:01	01:03:01	03:01:01	04:01P
173	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01P	3*02:02P	01:03	05:05	03:01	06:03	01:03	01:03	03:01P	04:01P
185	02:01:01G	32:01:01G	27:05:02G	44:02:01G	02:02:02G	05:01:01G	11:01P	13:01P	3*01:01P	3*02:02P	01:03:01G	05:01:01G	03:01P	06:03P	NT	NT	03:01:01G	04:01:01G
188	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01P	13:01P	NT	NT	01:03:01	05:05:01	03:01P	06:03P	01:03P	01:03P	03:01P	04:01P
189	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	03:01:01G	04:01:01G
190	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01P	13:01P	NT	NT	NT	NT	03:01P	06:03P	NT	NT	03:01:01	04:01P
192	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01G	04:01:01G
205	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
213	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01P	3*02:02P	01:03	05:05	03:01	06:03	01:03	01:03	03:01P	04:01P
218	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	NT	NT	NT	NT	03:01	06:03	NT	NT	03:01	04:01
219	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01P	13:01:01	3*01:01P	3*02:02P	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01P	04:01P
227	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
258	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01	13:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03	01:03:01	01:03:01	03:01:01	04:01
264	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01G	04:01:01G
266	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01	3*02:02	01:03:01	05:05:01	03:01	06:03	01:03:01	01:03:01	03:01	04:01
267	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01	3*02:02	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
279	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	NT	NT	01:03	05:05	03:01	06:03	NT	NT	03:01	04:01P
290	02:01:01	32:01:01	27:05:02	44:02:01	NT	NT	11:01:01	13:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	02:01P	32:01	27:05	44:02	02:02	05:01	11:01	13:01	NT	NT	01:03	05:05	03:01	06:03	NT	NT	03:01	04:01P
298	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01P	3*02:02P	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
316	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01
340	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01P	04:01P
345	02:01:01	32:01:01	27:05	44:02	02:02:02	05:01:01	11:01	13:01	NT	NT	NT	NT	03:01:01	06:03	NT	NT	03:01:01	04:01
349	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02:01	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01
353	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
402	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02P	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01
403	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01G	13:01:01G	NT	NT	NT	NT	03:01:01G	06:03	NT	NT	03:01:01G	04:01:01G
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01P	3*02:02P	01:03	05:05	03:01:01G	06:03	01:03	01:03	03:01	04:01P
805	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01P	3*01:01	3*02:02	01:03	05:05	03:01P	06:03	01:03P	01:03	03:01	04:01
1189	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01
1686	02:01:01:01	32:01:01:01	27:05:02	44:02:01	02:02:02:01	05:01:01:02	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01G	04:01:01G
2015	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01P	13:01:01	NT	NT	01:03:01	05:05:01	03:01:01	06:03:01:01	NT	NT	03:01P	04:01P
2063	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
2347	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02P	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01
2518	02:01	32:01	27:05	44:02	02:02	05:01	11:01:01G	13:01	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01:01G
2862	02:01:01	32:01:01	27:05:02G	44:02:01G	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
3410	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	NT	NT	NT	NT	03:01	06:03	NT	NT	03:01	04:01
3438	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01	3*02:02	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
3614	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01:02G	3*02:02:01G	01:03	05:05	03:01	06:03	01:03	01:03	03:01:01G	04:01:01G
3625	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
3849	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01:01	01:03:01	01:03:01	03:01:01	04

**Table 19. Individual laboratory results for DNA # 1105 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4237	02:01:01	32:01:01	27:05	44:02	02:02:02	05:01:01	11:01P	13:01P	3*01:01P	3*02:02P	01:03P	05:05	03:01P	06:03P	01:03P	01:03P	03:01P	04:01P
4345	02:01:01:01	32:01P	27:05P	44:02:01:01	02:02P	05:01P	11:01P	13:01P	3*01:01:02:01	3*02:02:01:01	01:03:01:01	05:01P	03:01:01:01	06:03P	01:03:01:01	01:03:01:01	03:01P	04:01:01:01
4582	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01:02G	3*02:02:01G	01:03	05:05	03:01	06:03	01:03	01:03	03:01:01G	04:01:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01P	3*02:02P	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01P	04:01P
9227	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	NT	NT	NT	NT	03:01:01	06:03:01	NT	NT	03:01:01	04:01:01
9230	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01	13:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03	01:03:01	01:03:01	03:01:01	04:01
9231	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
14982	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
Final Consensus based on High Resolution	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01

**Table 20. Individual laboratory results for DNA # 1105 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
155	02:01:01G	32:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	NT	NT	NT	NT	03:01:01G	06:03	NT	NT	NT	NT
176	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	NT	NT	01:03	05:05	03:01	06:03	01:03	01:03	03:01:01G	04:01:01G
207	02:01:01	32:01:01	27:05:02	44:02:01	02:02:02	05:01:01	11:01:01	13:01:01	3*01:01P	3*02:02P	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01P
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	32:01	27:05	NT	NT	05:01	NT	NT	3*01:01	3*02:02	01:03	NT	NT	06:03	NT	NT	03:01	04:01
262	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	11:12	13:01	NT	NT	01:03	05:05	03:01	06:03	NT	NT	NT	NT
292	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	NT	NT	NT	NT	03:01	06:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	NT	NT	NT	NT	03:01	06:03	NT	NT	NT	NT
317	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02	01:03	05:01	03:01	06:03	01:03	01:03	03:01	04:01
1251	02:01:01G	32:01:01G	27:05:02G	44:02:01G	02:02:02G	05:01:01G	11:01:01G	13:01:01G	3*01:01:02G	3*02:02:01G	NT	NT	03:01:01G	06:03:01G	NT	NT	03:01:01G	04:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01P	04:01P
4420	02:01	32:01	NT	44:02	NT	08:02	11:01	13:01	3*01:01	3*02:02	01:03	05:05	NT	06:03	01:03	01:03	NT	04:01
<b>Final Consensus</b>	02:01	32:01	27:05	44:02	02:02	05:01	11:01	13:01	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	03:01	04:01

**Table 21. Individual laboratory results for DNA # 1105 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	32	27	44	02	05	11	13	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
134	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
138	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
144	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02	32	27	44	02	05	11	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
189	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	NT	NT
190	02	32	27	44	02	05	11	13	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
192	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03	06	01	01	03	04(DP401)
199	NT	NT	NT	NT	NT	NT	11	03	3*PRESENT	3*PRESENT	NT	NT	03	06	NT	NT	NT	NT
205	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03	06	01	01	03	04(DP401)
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03	06	01	01	03	04(DP401)
228	02	01	27	07	02	07	15	04	4*PRESENT	5*PRESENT	01	03	03(DQ8)	06	NT	NT	NT	NT
239	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	32	27	44	02	05	11	13	3*PRESENT	3*PRESENT	NT	NT	03	06	NT	NT	NT	NT
255	02	32	27	44	NT	NT	11	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
266	02	32	27	44	02	05	11	13	NT	NT	01	05	03	06	01	01	03	04(DP401)
267	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
279	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
280	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03	06	01	01	03	04(DP401)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02	32	27	44	02	05	11	13	NT	NT	01	05	03	06	NT	NT	NT	NT
292	02	32	27	44	02	05	11	13	NT	NT	01	05	03	06	NT	NT	NT	NT
293	02	32	27	44	02	05	11	13	3*PRESENT	3*PRESENT	01	05	03	06	01	01	03	04(DP401)
294	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	NT	NT	03	04(DP401)
304	02	32	27	44	02	05	11	13	NT	NT	01	05	03	06	NT	NT	NT	NT
305	02	32	27	44	02	05	11	13	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
309	02	32	27	44	02	05	11	04	3*01	3*02	01	05	03	06	01	01	03	04(DP401)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	32	27	44	02	05	11	13	NT	NT	01	05	03	06	01	01	03	04(DP401)
334	02	32	27	44	02	05	11	13	NT	NT	01	05	03(DQ7)	06	01	01	03	04(DP401)
340	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03	06	01	01	03	04(DP401)
343	02	32	27	44	02	05	11	13	NT	NT	01	05	03(DQ7)	06	01	01	03	04(DP401)
345	02	32	27	44	NT	NT	11	13	NT	NT	NT	NT	03	06	NT	NT	03	04(DP401)
349	02	32	27	44	02	05	11	13	3*01	3*02	NT	NT	03(DQ7)	06	NT	NT	NT	NT
350	02	32	27	44	02	05	11	13	NT	NT	01	05	03	06	NT	NT	NT	NT
402	02	32	27	44	02	05	11	13	NT	NT	01	05	03	06	01	01	03	04(DP401)
519	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
615	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	NT	NT
726	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
732	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
805	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	NT	NT
1251	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
1647	02	32	27	44	02	05	11	13	3*PRESENT	3*PRESENT	01	05	03(DQ7)	06	01	01	03	04(DP401)
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT



**Table 21. Individual laboratory results for DNA # 1105 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	02	32	27	44	02	05	11	13	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
3600	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	NT	NT
4237	02	32	27	44	02	05	11	13	NT	NT	01	05	03(DQ7)	06	01	01	03	04(DP401)
4420	02	32	27	44	02	08	11	13	3*01	3*02	01	05	03	06	01	01	NT	04(DP401)
4545	02	32	27	44	02	05	11	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4582	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03	06	01	01	03	04(DP401)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
9221	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03(DQ7)	06	01	01	03	04(DP401)
9227	02	32	27	44	02	05	11	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
9231	02	32	27	44	02	05	11	13	NT	NT	01	05	03(DQ7)	06	01	01	03	04(DP401)
Final Consensus	02	32	27	44	02	05	11	13	3*01	3*02	01	05	03	06	01	01	03	04(DP401)

**Table 22. Individual laboratory results for DNA # 1106 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01:02G	3*02:02:01G	01:03:01	01:04:01	05:03:01G	06:03	01:03:01	01:03:01	04:01:01G	04:01:01G
16	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01	3*02:02:01G	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
124	02:01:01	02:01:01	40:01:02	44:02:01:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01:04	01:03:01:04	04:01:01	04:01:01
125	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	NT	NT	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
134	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01P	3*02:02P	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01:04	01:03:01:04	04:01P	04:01P
138	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
139	02:01:01G	02:01:01G	40:01:01G	44:02P	03:04:01G	05:01:01G	13:01:01G	14:54	NT	NT	01:03:01G	01:01:01G	05:03:01G	06:03:01G	NT	NT	04:01:01G	04:01:01G
144	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
147	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
148	02:01:01G	02:01:01G	40:01:01G	44:02:01G	03:04:01G	05:01:01G	13:01:01G	14:01:01G	NT	NT	NT	NT	05:03:01G	06:03:01G	NT	NT	04:01:01G	04:01:01G
158	02:01P	02:01P	40:01P	44:02P	03:04P	05:01P	13:01P	14:01P	3*01:01P	3*02:02P	01:03P	01:01P	05:03P	06:03P	01:03P	01:03P	04:01P	04:01P
160	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:01P	3*01:01	3*02:02	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01P	04:01P
173	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01P	3*02:02P	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
185	02:01:01G	02:01:01G	40:01:01G	44:02:01G	03:04:01G	05:01:01G	13:01P	14:01P	3*01:01P	3*02:02P	01:03:01G	01:01:01G	05:03P	06:03P	NT	NT	04:01:01G	04:01:01G
188	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01P	14:01P	NT	NT	01:03:01	01:04:01	05:03P	06:03P	01:03P	01:03P	04:01P	04:01P
189	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
190	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01P	14:01P	NT	NT	NT	NT	05:03P	06:03P	NT	NT	04:01P	04:01P
192	02:01:01	02:01:01	40:01:02	40:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01:02G	3*02:02:01G	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01G	04:01:01G
205	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
213	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01P	3*02:02P	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
218	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	NT	NT	NT	NT	05:03	06:03	NT	NT	04:01	04:01
219	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:01P	3*01:01P	3*02:02P	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01P	04:01P
227	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
258	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01:02	3*02:02	01:03:01	01:04:01	05:03	06:03	01:03	01:03	04:01	04:01:01
264	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01G	14:54	3*01:01:02G	3*02:02:01G	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
266	02:01:01	02:01:01	40:01:01G	44:02:01:01	03:04:01	05:01:01	13:01	14:01:01G	3*01:01	3*02:02	01:03:01	01:04:01	05:03	06:03	01:03:01	01:03:01	04:01	04:01
267	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:01	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
290	02:01:01	02:01:01	40:01:02	44:02:01	NT	NT	13:01:01	14:54:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01P	3*02:02P	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
316	03:01	68:03	07:02	39:05	07:02	07:02	04:07	15:01	4*01:03	5*01:01	01:02	03:01	03:02	06:02	01:03	01:03	02:01	04:02
340	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01P	04:01P
345	02:01:01	02:01:01	40:01	44:02:01	03:04	05:01	13:01	14:54	NT	NT	NT	NT	05:03	06:03	NT	NT	04:01	04:01
349	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01	3*02:02:01	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
353	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
402	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01	3*02:02P	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
403	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01G	14:01:01G	NT	NT	NT	NT	05:03:01G	06:03	NT	NT	04:01:01G	04:01:01G
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01P	3*02:02P	01:03	01:04	05:03	06:03	01:03	01:03	04:01P	04:01P
805	02:01	02:01	40:01	44:02	03:04	05:01	13:01P	14:01P	3*01:01	3*02:02P	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
1189	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
1686	02:01:01:01	02:01:01:01	40:01:02	44:02:01:01	03:04:01:01	05:01:01:02	13:01	14:54	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
2015	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:01P	NT	NT	01:03:01	01:04:01	05:03:01	06:03:01:01	NT	NT	04:01P	04:01P
2063	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
2347	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01	3*02:02P	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
2518	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:01:01G	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01:01G	04:01:01G
2862	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01:02G	3*02:02:01G	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
3410	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	NT	NT	NT	NT	05:03	06:03	NT	NT	04:01	04:01
3438	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01	3*02:02	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
3614	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:01:01G	3*01:01:02G	3*02:02:01G	01:03	01:04	05:03	06:03	01:03	01:03	04:01:01G	04:01:01G
3625	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
3849	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01:01	01:03:01:04	01:03:01:04	04:01	04:01

**Table 22. Individual laboratory results for DNA # 1106 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4237	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01P	14:54	3*01:01P	3*02:02P	01:03P	01:04	05:03P	06:03P	01:03P	01:03P	04:01P	04:01P
4345	02:01:01:01	02:01:01:01	40:01P	44:02:01:01	03:04:01:01	05:01P	13:01P	14:01P	3*01:01:02:01	3*02:02:01:01	01:03:01:01	01:01P	05:03:01:01	06:03P	01:03:01:01	01:03:01:01	04:01:01:01	04:01:01:01
4582	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	3*01:01:02G	3*02:02:01G	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01P	14:01P	3*01:01P	3*02:02P	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01P	04:01P
9227	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	NT	NT	NT	NT	05:03:01	06:03:01	NT	NT	04:01:01	04:01:01
9230	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01:02	3*02:02	01:03:01	01:04:01	05:03	06:03	01:03	01:03	04:01	04:01:01
9231	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01:02	3*02:02:01	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
14982	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01	14:54:01	3*01:01	3*02:02:01G	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01:01G	14:01:01G	3*01:01:02G	3*02:02:01G	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01

Final Consensus based on High Resolution	02:01	02:01	40:01	44:02	03:04	05:01	13:01	NG	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
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**Table 23. Individual laboratory results for DNA # 1106 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
155	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:01:01G	NT	NT	NT	NT	05:03	06:03	NT	NT	NT	NT
176	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	NT	NT	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
207	02:01:01	02:01:01	40:01:02	44:02:01	03:04:01	05:01:01	13:01	14:54	3*01:01P	3*02:02P	01:03:01	01:04:01	05:03:01	06:03:01	01:03:01	01:03:01	04:01:01	04:01:01
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	40:01	NT	NT	05:01	13:01	NT	3*01:01	3*02:02	01:03	NT	05:03	06:03	NT	NT	04:01	04:01
262	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	13:01	14:54	NT	NT	01:03	01:04	05:03	06:03	NT	NT	NT	NT
292	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	NT	NT	NT	NT	05:03	06:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:04	NT	NT	NT	NT	NT	NT
313	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:54	NT	NT	NT	NT	05:03	06:03	NT	NT	NT	NT
317	02:01	02:01	40:01	44:02	03:04	05:01	13:01	14:01	3*01:01	3*02:02	01:03	01:02	06:01	06:03	01:03	01:03	04:01	04:01
1251	02:01:01G	02:01:01G	40:01:01G	44:02:01G	03:04:01G	05:01:01G	13:01:01G	14:01:01G	3*01:01:02G	3*02:02:01G	NT	NT	05:03:01G	06:03:01G	NT	NT	04:01:01G	04:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
4420	02:01	02:01	40:01	44:02	03:04	05:01	13:01	NT	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01
Final Consensus	02:01	02:01	40:01	44:02	03:04	05:01	13:01	NG	3*01:01	3*02:02	01:03	01:04	05:03	06:03	01:03	01:03	04:01	04:01

**Table 24. Individual laboratory results for DNA # 1106 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	02	40(B60)	44	03(Cw10)	05	13	14	3*PRESENT	3*PRESENT	NT	NT	05	06	NT	NT	NT	NT
134	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
138	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
144	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
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
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02	02	40	44	03	05	13	14	NT	NT	NT	NT	05	06	NT	NT	NT	NT
189	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	NT	NT
190	02	02	40(B60)	44	03(Cw10)	05	13	14	3*PRESENT	3*PRESENT	NT	NT	05	06	NT	NT	NT	NT
192	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
199	NT	NT	NT	NT	NT	NT	11	14	3*PRESENT	3*PRESENT	NT	NT	05	06	NT	NT	NT	NT
205	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
228	24	32	40	44	03	05	13	08	3*PRESENT	NP	01	04	04	06	NT	NT	NT	NT
239	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	02	40	44	03	05	13	14	3*PRESENT	3*PRESENT	NT	NT	05	06	NT	NT	NT	NT
255	02	02	40(B60)	44	NT	NT	13	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
266	02	02	40	44	03	05	13	14	NT	NT	01	01	05	06	01	01	04(DP401)	04(DP401)
267	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
279	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
280	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
288	02	02	40	44	03	05	13	14	NT	NT	01	01	05	06	NT	NT	NT	NT
292	02	02	40	44	03	05	13	14	NT	NT	01	01	05	06	NT	NT	NT	NT
293	02	02	40	44	03	05	13	14	3*PRESENT	3*PRESENT	01	01	05	06	01	01	04(DP401)	04(DP401)
294	02	02	40(B60)	44	03(Cw10)	05	13	14	NT	NT	01	01	05	06	NT	NT	04(DP401)	04(DP401)
304	02	02	40	44	03	05	13	14	NT	NT	01	01	05	06	NT	NT	NT	NT
305	02	02	40(B60)	44	03(Cw10)	05	13	14	NT	NT	01	01	05	06	NT	NT	NT	NT
309	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
311	02	30	40	44	03	05	13	14	3*PRESENT	3*PRESENT	01	01	05	06	NT	NT	NT	NT
318	02	02	40	44	03	05	13	14	NT	NT	01	01	05	06	01	01	04(DP401)	04(DP401)
334	02	02	40(B60)	44	03(Cw10)	05	13	14	NT	NT	01	01	05	06	01	01	04(DP401)	04(DP401)
340	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
343	02	32	40	44	03	08	13	14	NT	NT	01	01	05	06	01	01	04(DP401)	04(DP401)
345	02	02	40	44	NT	NT	13	14	NT	NT	NT	NT	05	06	NT	NT	04(DP401)	04(DP401)
349	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	02	40	44	03	05	13	14	NT	NT	01	01	05	06	NT	NT	NT	NT
402	02	02	40	44	03	05	13	14	NT	NT	01	01	05	06	01	01	04(DP401)	04(DP401)
519	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
615	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	NT	NT
726	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
732	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
805	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	NT	NT
1251	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
1647	02	02	40(B60)	44	03(Cw10)	05	13	14	3*PRESENT	3*PRESENT	01	01	05	06	01	01	04(DP401)	04(DP401)
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Table 24. Individual laboratory results for DNA # 1106 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	02	02	40(B60)	44	03(Cw10)	05	13	14	NT	NT	01	01	05	06	NT	NT	NT	NT
3600	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	NT	NT
4237	02	02	40(B60)	44	03(Cw10)	05	13	14	NT	NT	01	01	05	06	01	01	04(DP401)	04(DP401)
4420	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
4545	02	02	40	44	03	05	13	14	NT	NT	NT	NT	05	06	NT	NT	NT	NT
4582	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
9221	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	02	40(B60)	44	03(Cw10)	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)
9227	02	02	40	44	03	05	13	14	NT	NT	NT	NT	05	06	NT	NT	NT	NT
9231	02	02	40(B60)	44	03(Cw10)	05	13	14	NT	NT	01	01	05	06	01	01	04(DP401)	04(DP401)
<b>Final Consensus</b>	02	02	40	44	03	05	13	14	3*01	3*02	01	01	05	06	01	01	04(DP401)	04(DP401)

**Table 25. Individual laboratory results for DNA # 1101 High Resolution**

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:01/01:09/01:12/01:13/01:14/01:15/ 01:118/01:119/01:121/01:124/01:125/ 01:127/01:129/01:130/01:131/01:134/ 01:135/01:139N/01:140/01:142/01:14 3/01:144/01:146/01:148	01:03/01:06/01:10/01:11 /01:122/01:123/01:138/0 1:145/01:147	NT	NT	NT	NT	NT	NT	004:01/028/034	004:01/028/034	NGS-INH	
227	01:01:01	01:03:01	01:01:01	01:01:01	01:01:02	01:04:01	DEL	01:02:01	004:01	004:01	NGS-CareDx Alloseq Tx17 lot:23-810	
1686	01:01:01:--	01:03:01:01	01:01:01:08	01:01:01:09	01:01:02:01	01:04:01:01	DEL	01:02:01:01	004:01	004:01	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20

**Table 26. Individual laboratory results for DNA # 1102 High Resolution**

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:01/01:09/01:12/01:13/01:14/01:15/ 01:118/01:119/01:121/01:124/01:125/ 01:127/01:129/01:130/01:131/01:134/ 01:135/01:139N/01:140/01:142/01:14 3/01:144/01:146/01:148	01:03/01:17/01:120/01:1 33/01:136/01:141N/01:1 49	NT	NT	NT	NT	NT	NT	002:01/002:03/0 18:01/036	003:01/005:02/0 05:08/005:11/00 6/010/019:01/03 8	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:01:02	01:01:02(Exon3 383bp G>A)	01:03:01	01:03:01	02:05:01	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:23-810	
1686	01:01:01:--	01:03:02:05	01:01:01:23	01:01:02:--	01:NEW	01:03:01:02	01:03:01:--	02:05:01:--	SEE COMMENTS	SEE COMMENTS	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 MICB: Ambiguity MICB*002:01 + MICB*005:02 = MICB*018:01 + MICB*019:01 HLA-F: F*01:01:02:07 or F*01:01:02:11 Comments: HLA-G: New allele, Ref: G*01:01:02:01 Exon 3 c104.2 GGG > GAG/ Gly > Glu

**Table 27. Individual laboratory results for DNA # 1103 High Resolution**

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:03/01:17/01:120/01:133/01:136/01 :141N/01:149	01:03/01:17/01:120/01:1 33/01:136/01:141N/01:1 49	NT	NT	NT	NT	NT	NT	003:01/005:02/0 05:08/006/010	003:01/005:02/0 05:08/006/010	NGS-INH	
227	01:03:02	01:03:02	01:01:01	01:01:01	01:01:02	01:04:01	01:01:01	DEL	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:23-810	
1686	01:03:02:--	01:03:02:06	01:01:01:09	01:01:01:09	01:01:02:01	01:04:01:01	01:01:01:01	DEL	005:02	005:02	NGS-AlloSeq Tx17	HLA-E*: E*01:03:02:01 or E*01:03:02:32

**Table 28. Individual laboratory results for DNA # 1104 High Resolution**

CENTER	E		F		G		H		MICB		Methods	Comments	
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:01/01:09/01:12/01:13/01:14/01:15/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	NT	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	008:01	NGS-INH	
227	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:02	01:01:01	02:01:01	005:02	008:01	NGS-CareDx Alloseq Tx17 lot:23-810		
1686	01:01:01:--	01:01:01:03	01:01:01:--	01:01:01:09	01:01:01:01	01:01:02:01	01:01:01:01	02:01:01:01	005:02	008:01	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 HLA-F: F*01:01:01:01 or F*01:01:01:17	

**Table 29. Individual laboratory results for DNA # 1105 High Resolution**

CENTER	E		F		G		H		MICB		Methods	Comments	
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:01/01:09/01:12/01:13/01:14/01:15/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	NT	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/005:11/006/010	003:01/005:02/005:08/005:11/006/010	NGS-INH	
227	01:01:01	01:01:01	01:01:02	01:01:02	01:01:01	01:01:22	01:01:01	02:03:02	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:23-810		
1686	01:01:01:--	01:01:01:--	01:01:02:08	01:01:02:10	01:01:01:01	01:01:22:01	01:01:01:01	02:03:02	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20	

**Table 30. Individual laboratory results for DNA # 1106 High Resolution**

CENTER	E		F		G		H		MICB		Methods	Comments	
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:03/01:17/01:120/01:133/01:136/01:141N/01:149	NT	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	004:01/028	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:04:01	01:01:01(Exon4 777bp T>G)	01:01:01	01:01:01	01:01:01	004:01	005:02	NGS-CareDx Alloseq Tx17 lot:23-810		
1686	01:01:01:--	01:03:02:--	01:01:01:--	01:04:01:02	01:01:01:01	01:01:NEW	01:01:01:01	01:01:01:01	SEE COMMENTS	SEE COMMENTS	NGS-AlloSeq Tx17	HLA-E: Ambiguity E*01:01:01:01/20 + E*01:03:02:06 = E*01:01:01:03 + E*01:03:02:01/32 MICB: Ambiguity MICB*004:01 + MICB*005:02 = MICB*010 + MICB*028 HLA-F: F*01:01:01:01 or F*01:01:01:17 HLA-G: New allele, Ref: G*01:01:01:01 Exon 4 c235.3 CCT>CCG Synonymous	



## DNA Exchange - 180 Participants and Methods High Resolution

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
7	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
16	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
124	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
125	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG
134	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
139	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO
144	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
147	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX
148	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
155	SBT-LT								
	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
160	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL
162	SBT-BS	SBT-BS	SBT-BS	SBT-BS	SBT-BS	SBT-BS	SBT-BS	SBT-BS	SBT-BS
173	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
176	SBT-INH	SBT-INH	SBT-INH	SBT-INH	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	NGS-INH
	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
188	SSP-OLE	NGS-GIL	NGS-GIL	SBT-ACT		NGS-GIL	NGS-GIL	NGS-GIL	SSP-OLE
189	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
190	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
192	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH
205	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
207					SSP-OLE				
	SBT-GD	SBT-GD	SBT-GD	SBT-GD	SBT-GD	SSO-OL	SBT-GD	SSO-OL	SBT-GD
209	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-OLE	SSP-OLE	SSO-OL	SSP-OLE	SSO-OL
					NGS-HM	NGS-HM			NGS-HM
213	NGS-HM	NGS-HM	NGS-HM	NGS-HM	SSP-OLE	SSP-OLE	NGS-HM	NGS-HM	SSP-OLE
218	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
219	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
227	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
239	rIPCR-LB	rIPCR-LB	rIPCR-LB	rIPCR-LB	rIPCR-LB	rIPCR-LB	rIPCR-LB	rIPCR-LB	rIPCR-LB
	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD
240	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	NGS-GD	NGS-GD
245	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
258	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
				SSO-LUM		SSO-LUM	SSO-LUM		
262				SSP-OL-OLE		SSP-OLE	SSP-OLE		
264	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG
266	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
267	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
					NGS-OMX	SSP-OLE	NGS-OMX	SSP-OLE	NGS-OMX
279	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE
288					SSP-OLE	SSP-OLE	SSP-OLE		
290	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
294	NGS-INH-OMX	NGS-INH-OMX	NGS-INH-OMX	NGS-INH-OMX	NGS-INH	NGS-INH-OMX	NGS-INH-OMX		NGS-INH-OMX
311						SSP-OLE			
313	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG
316	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
317	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM
340	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL

**Participants and Methods High Resolution**

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
345	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL		NGS-GIL		NGS-GIL
349	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM		NGS-HM-IMM	NGS-IMM	NGS-IMM
353	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
	NGS-OL	NGS-OL	NGS-OL	NGS-OL			NGS-OL		NGS-OL
402	SBT-GD	SBT-GD-IMM	SBT-GD	SBT-GD	NGS-OL	NGS-OL	SBT-GD	NGS-OL	SBT-GD
403	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
726	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
769	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
805	NGS-GIL			NGS-GIL					
1189	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
1251	SBT-PRO	SBT-PRO	SBT-PRO	SBT-PRO	SBT-PRO		SBT-PRO		SBT-PRO
1686	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
	NGS-GD	NGS-GD	NGS-GD	NGS-GD		NGS-GD	NGS-GD		NGS-GD
	SBT-GD	SBT-GD	SBT-GD	SBT-GD		SBT-GD	SBT-GD		SBT-GD
2015	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		SSO-OL
2063	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
2347	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
2518	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
2862	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL
	NGS-GIL								NGS-GIL
	SSO-OL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		SSO-OL
3438	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3600									rPCR-LB
3614	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
3625	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
	NGS-GIL	NGS-GIL	NGS-GIL						
3849	SBT-INH	SBT-INH	SBT-INH	NGS-GIL-IL	NGS-GIL-IL	NGS-GIL-IL	NGS-GIL-IL	NGS-GIL-IL	NGS-GIL-IL
						NGS-GIL			
4237	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	SSP-OLE	SSP-OLE	NGS-GIL	SSO-IMM	NGS-GIL
4345	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK
4582	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
6051	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
9226	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
				NGS-GIL			NGS-GIL		
9227	NGS-GIL	NGS-GIL	NGS-GIL	SSP-OLE			SSP-OLE		NGS-GIL
9230	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
9231	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
14982	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
45852	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL	NGS-IL-OL



**Participants and Methods Low Resolution**

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
726	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS
732	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
805	SSO-IMM			SSO-IMM					
1251	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM
1647	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
2347	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
3438	SSO-LC	SSO-LC	SSO-LC	SSO-LC		SSO-LC	SSO-LC		
3600	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	
4237	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM		SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK
4545	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		
4582	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
4585	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
8050	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ
9221	SSO-OL-TEP rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB
9222	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM					
9225	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ
9227	SSO-LC-LUM SSP-OLE	SSO-LC-LUM SSP-OLE	SSO-LC-LUM SSP-OLE	SSO-LC-LUM SSP-OLE			SSO-LC-LUM SSP-OLE		
9231	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL