

UCLA INTERNATIONAL HLA DNA EXCHANGE



181ST SUMMARY

APRIL 24, 2024

DNA Sample	
#1107	#1110
#1108	#1111
#1109	#1112

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DNA #1107 BLACK

HLA-A		HLA-B		HLA-C	
02:01	32:01	15:01	53:01	03:03	04:01

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01

The likely class II associations for this cell are DRB1*01:02-DQB1*05:01 and DRB1*14:07-DQB1*05:03, with respective frequencies of HF=0.03293 and HF=0.00046, interestingly seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1107 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9. The results for DNA #1107 HLA-E, -F, -G, -H, and MICB data can be found on Table 25.

DNA #1108 ASIAN

HLA-A		HLA-B		HLA-C	
24:02	34:01	38:02	40:01	04	07:02

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01:01G

A consensus for the C*04 allele could not be reached seeing as 41 participants reported C*04:82:01, 2 participants reported C*04:01:01, 3 participants reported C*04:01:01G, 8 participants reported C*04:01P, 21 participants reported C*04:82 and 4 participants reported C*04:01

The likely class II associations in this cell are DRB1*04:03-DQB1*03:02 and DRB1*15:02-DQB1*05:02, with respective frequencies of HF=0.03222 and HF=0.02290, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #1108 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12. The results for DNA #1108 HLA-E, -F, -G, -H, and MICB data can be found on Table 26.

DNA #1109 HISPANIC

HLA-A		HLA-B		HLA-C	
24:25	30:04	15:01	41:01	01:02	17:01

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01

The likely class II associations for this cell are DRB1*07:01-DQB1*02:02 and DRB1*08:02-DQB1*04:02, with respective frequency of HF=0.09926 and HF=0.05612, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1109 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15. The results for DNA #1109 HLA-E, -F, -G, -H, and MICB data can be found on Table 27.

**DNA Sample**

#1107	#1110
#1108	#1111
#1109	#1112

DNA #1110 UNKNOWN

HLA-A		HLA-B		HLA-C	
24:02	24:02	14:02	51:01	08:02	15:09

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
04:07	13:04	3*02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	17:01:01G

A consensus for the DRB3*02 allele could not be reached seeing 16 participants reported a NEW allele. Twenty-six participants reporting High Resolution results noted that a novel DRB3*02 allele has been identified. The novel DRB3*02:02 allele has a single silent variant in exon 2, codon 55 which does not invoke an amino acid change CCG->AGG.

The likely class I associations in this cell are A*24:02-B*14:02-C*08:02 and A*24:02-B*51:01-C*15:09, with respective frequencies of HF=0.00254 and HF=0.00111, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1110 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18. The results for DNA #1110 HLA-E, -F, -G, -H, and MICB data can be found on Table 28.

DNA #1111 CAUCASIAN

HLA-A		HLA-B		HLA-C	
11:01	68:01	35:01	35:01	04:01	04:01

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
01:01	04:07	4*01	NP	01:01	03:03	03:01	05:01	01:03	01:03	04:01	04:01

A consensus for the DRB4*01 allele could not be reached seeing as 25 participants reported DRB4*01:03:01, 3 participants reported DRB4*01:01:01G, 12 participants reported DRB4*01:01P, 18 participants reported DRB4*01:03 and 2 participants reported DRB4*01:01.

The likely class I associations in this cell are A*11:01-B*35:01-C*04:01 and A*68:01-B*35:01-C*04:01, with respective frequencies of HF=0.01645 and HF=0.00051, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1111 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21. The results for DNA #1111 HLA-E, -F, -G, -H, and MICB data can be found on Table 29.

DNA #1112 HISPANIC

HLA-A		HLA-B		HLA-C	
26:01	29:02	27:05	44:03	02:02	16:01

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01

The likely class I associations in this cell are A*26:01-B*27:05-C*02:02 and A*29:02-B*44:03-C*16:01, with respective frequencies of HF=0.00021 and HF=0.02457, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1112 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24. The results for DNA #1112 HLA-E, -F, -G, -H, and MICB data can be found on Table 30.

ACKNOWLEDGMENTS:

The UCLA Immunogenetics Center would like to express our deepest thanks to One Legacy and all organ and tissue donors and their families for giving the gift of knowledge by their generous donation to the education and advancement of the study of HLA. We would also like to thank the NMDP Bioinformatics website (<https://bioinformatics.bethematchclinical.org>), the continued submission of NGS results, and the 6 participants reporting their HLA-E, -F, -G, -H, and MICB data (See Tables 25-30).

Table 1. Summary of the 181st DNA Exchange (DNA #1107)

A				B				C			
78 labs High / 70 labs Low		% (n)		78 labs High / 69 labs Low		% (n)		78 labs High / 67 labs Low		% (n)	
A*02:01:01:01	3 (2)	A*32:01:01:01	4 (3)	B*15:01:01:01	4 (3)	B*53:01:01:01	12(9)	C*03:03:01:01	1 (1)	C*04:01:01:01	1 (1)
A*02:01:01	58(45)	A*32:01:01	55(43)	B*15:01:01	56(44)	B*53:01:01	48(37)	C*03:03:01	58(45)	C*04:01:01	59(46)
A*02:01:01G	1 (1)	A*32:01:01G	1 (1)	B*15:01:01G	1 (1)	B*53:01:01G	1 (1)	C*03:03:01G	3 (2)	C*04:01:01G	3 (2)
A*02:01P	3 (2)	A*32:01P	3 (2)	B*15:01P	1 (1)	B*53:01P	3 (2)	C*03:03P	1 (1)	C*04:01P	3 (2)
A*02:01	36(28)	A*32:01	37(29)	B*15:01	37(29)	B*53:01	36(28)	C*03:03	37(29)	C*04:01	35(27)
A*02	100(70)	A*32	99(69)	B*15(B62)	56(39)	B*53	100(68)	C*03(Cw9)	54(36)	C*04	100(67)
		A*02	1 (1)	B*15	43(30)			C*03	46(31)		

DRB1				DRB3/4/5				DQA1			
79 labs High / 70 labs Low		% (n)		61 labs High / 46 labs Low		% (n)		70 labs High / 56 labs Low		% (n)	
DRB1*01:02:01	54(43)	DRB1*14:07:01	59(46)	DRB3*02:02:01:01	2 (1)			DQA1*01:01:02	57(40)	DQA1*01:04:01:01	1 (1)
DRB1*01:02P	5 (4)	DRB1*14:07P	3 (2)	DRB3*02:02:01	34(21)			DQA1*01:01:01G	1 (1)	DQA1*01:04:01	57(40)
DRB1*01:02	41(32)	DRB1*14:07	38(30)	DRB3*02:02:01G	20(12)			DQA1*01:01P	3 (2)	DQA1*01:01:01G	1 (1)
DRB1*01	100(69)	DRB1*14	100(70)	DRB3*02:02P	13(8)			DQA1*01:01	37(26)	DQA1*01:01P	1 (1)
				DRB3*02:02	31(19)			DQA1*01	1 (1)	DQA1*01:04	37(26)
				DRB3*02	78(36)					DQA1*01:01	1 (1)
				DRB3*PRESENT	22(10)					DQA1*01	98(55)
										DQA1*04	2 (1)

DQB1				DPA1				DPB1			
79 labs High / 67 labs Low		% (n)		62 labs High / 42 labs Low		% (n)		75 labs High / 42 labs Low		% (n)	
DQB1*05:01:01:01	3 (2)	DQB1*05:03:01:01	1 (1)	DPA1*01:03:01:01	3 (2)			DPB1*02:01:02	39(29)		
DQB1*05:01:01	43(34)	DQB1*05:03:01	44(35)	DPA1*01:03:01	55(34)			DPB1*02:01:02G	9 (7)		
DQB1*05:01:01G	5 (4)	DQB1*05:03:01G	5 (4)	DPA1*01:03P	6 (4)			DPB1*02:01P	17(13)		
DQB1*05:01P	10(8)	DQB1*05:03P	9 (7)	DPA1*01:03	36(22)			DPB1*02:01	35(26)		
DQB1*05:01	39(31)	DQB1*05:03	40(32)	DPA1*01	100(42)			DPB1*02(DP201)	100(42)		
DQB1*05	99(66)	DQB1*05	99(66)								
DQB1*03	1 (1)	DQB1*04	1 (1)								

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

Table 2. Summary of the 181th DNA Exchange (DNA #1108)

A				B				C			
79 labs High / 69 labs Low		% (n)		79 labs High / 68 labs Low		% (n)		79 labs High / 65 labs Low		% (n)	
A*24:02:01:01	1 (1)	A*34:01:01:01	14(11)	B*38:02:02	61(48)	B*40:01:02	58(46)	C*04:82:01	52(41)	C*07:02:01:01	1 (1)
A*24:02:01	58(45)	A*34:01:01	46(36)	B*38:02P	2 (2)	B*40:01:01G	2 (2)	C*04:01:01	2 (2)	C*07:02:01	57(45)
A*24:02:01G	3 (2)	A*34:01:01G	1(1)	B*38:02	37(29)	B*40:01P	4 (3)	C*04:01:01G	4 (3)	C*07:02:01G	4 (3)
A*24:02P	3 (2)	A*34:01P	3 (2)	B*38	100(68)	B*40:01	35(28)	C*04:01P	10(8)	C*07:02P	1 (1)
A*24:02	36(28)	A*34:01	37(29)			B*40(B60)	59(40)	C*04:82	27(21)	C*07:02	37(29)
A*24	100(69)	A*34	100(69)			B*40	41(28)	C*04:01	5 (4)	C*07	99(64)
								C*04	65(100)	C*04	1 (1)

DRB1				DRB3/4/5				DQA1			
79 labs High / 69 labs Low		% (n)		61 labs High / 47 labs Low		% (n)		69 labs High / 58 labs Low		% (n)	
DRB1*04:03:01	47(37)	DRB1*15:02:02	1 (1)	DRB4*01:03:01	47(28)	DRB5*01:01:01	39(24)	DQA1*01:02:01	58(40)	DQA1*03:01:01:01	9 (6)
DRB1*04:03:01G	2 (2)	DRB1*15:02:01	43(34)	DRB4*01:01:01G	5 (3)	DRB5*01:01:01G	18(11)	DQA1*01:02:01G	1 (1)	DQA1*03:01:01	49(34)
DRB1*04:03P	9 (7)	DRB1*15:02:01G	8 (6)	DRB4*01:01P	17(10)	DRB5*01:01P	11(7)	DQA1*01:02P	4 (3)	DQA1*03:01:01G	1 (1)
DRB1*04:03	41(32)	DRB1*15:02P	16(13)	DRB4*01:03	30(18)	DRB5*01:01	31(19)	DQA1*01:02	36(25)	DQA1*03:01P	3 (2)
DRB1*04:07	1 (1)	DRB1*15:02	30(24)	DRB4*01:01	2 (1)	DRB5*01	81(38)	DQA1*01	100(58)	DQA1*03:01	38(26)
DRB1*04	100(69)	DRB1*15:01	1 (1)	DRB4*01	81(38)	DRB5*PRESENT	19(9)			DQA1*03	100(58)
		DRB1*15	100(68)	DRB4*PRESENT	19(9)						

DQB1				DPA1				DPB1			
80 labs High / 67 labs Low		% (n)		61 labs High / 44 labs Low		% (n)		77 labs High/ 43 labs Low		% (n)	
DQB1*03:02:01:01	1 (1)	DQB1*05:02:01:01	1 (1)	DPA1*02:02:02:01	2 (1)			DPB1*01:01:01	49(37)	DPB1*135:01:01	39(30)
DQB1*03:02:01	42(34)	DQB1*05:02:01	42(34)	DPA1*02:02:02	56(34)			DPB1*01:01:01G	9 (7)	DPB1*05:01:01	1 (1)
DQB1*03:02:01G	6 (5)	DQB1*05:02:01G	5 (4)	DPA1*02:02P	8 (5)			DPB1*01:01P	12(9)	DPB1*05:01:01G	8 (6)
DQB1*03:02P	11(9)	DQB1*05:02P	9 (7)	DPA1*02:02	34(21)			DPB1*01:01	30(23)	DPB1*05:01P	10(8)
DQB1*03:02	39(31)	DQB1*05:02	42(34)	DPA1*02	100(44)			DPB1*01	100(43)	DPB1*135:01	39(30)
DQB1*03(DQ8)	55(37)	DQB1*05	100(67)							DPB1*05:01	3 (2)
DQB1*03	43(29)									DPB1*05	62(25)
DQB1*04	1 (4)									DPB1*135	37(15)

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

Table 4. Summary of the 181st DNA Exchange (DNA #1110)

A		B		C							
78 labs High / 65 labs Low	% (n)			79 labs High / 65 labs Low	% (n)			78 labs High / 63 labs Low	% (n)		
A*24:02:01:01	1 (1)	A*24:02:01:06	8 (6)	B*14:02:01:01	10(8)	B*51:01:01	56(44)	C*08:02:01:01	1 (1)	C*15:09:01	55(43)
A*24:02:01	55(43)	A*24:02:01	49(38)	B*14:02:01	47(37)	B*51:01:01G	2 (2)	C*08:02:01	55 (43)	C*15:09	42(33)
A*24:02:01G	4 (3)	A*24:02:01G	3 (2)	B*14:02:01G	1 (1)	B*51:01P	4 (3)	C*08:02:01G	3 (2)	C*15:05	3 (2)
A*24:02P	1 (1)	A*24:02P	1 (1)	B*14:02P	2 (2)	B*51:01	38(30)	C*08:02P	3 (2)	C*15	100(63)
A*24:02	38(30)	A*24:02	39(30)	B*14:02	39(31)	B*51	100(65)	C*08:02	38(30)		
A*24	100(65)	A*24	98(63)	B*14(B65)	63(41)			C*08	100(63)		
		A*32	2 (1)	B*14	37(24)						

DRB1		DRB3/4/5		DQA1							
79 labs High / 66 labs Low	% (n)			57 labs High / 43 labs Low	% (n)						
DRB1*04:07:01	47(37)	DRB1*13:04	100(79)	DRB3*02:02:01	10(6)	DRB4*01:03:01:01	2 (1)	DQA1*03:01:01:01	7 (5)	DQA1*05:05:01:01	1 (1)
DRB1*04:03:01	1 (1)	DRB1*13	100(66)	DRB3*02:02:01G	14(8)	DRB4*01:03:01	49(28)	DQA1*03:01:01	51(35)	DQA1*05:01:01	56(38)
DRB1*04:07:01G	2 (2)			DRB3*02:02P	9 (5)	DRB4*01:01:01G	3 (2)	DQA1*03:01:01G	1 (1)	DQA1*05:01:01G	1 (1)
DRB1*04:07P	9 (7)			DRB3*02:02	39(22)	DRB4*01:01P	14(8)	DQA1*03:01P	3 (2)	DQA1*05:01P	1 (1)
DRB1*04:07	40(32)			NEW	28(16)	DRB4*01:03	30(17)	DQA1*03:01	38(26)	DQA1*05:05	38(26)
DRB1*04	100(66)			DRB3*02	83(40)	DRB4*01:01	2 (1)	DQA1*03	100(56)	DQA1*05:01	1 (1)
				DRB3*PRESENT	17(8)	DRB4*01	83(40)			DQA1*05	100(56)
						DRB4*PRESENT	17(8)				

DQB1		DPA1		DPB1							
79 labs High / 64 labs Low	% (n)			76 labs High / 43 labs Low	% (n)						
DQB1*03:02:01:01	1 (1)	DQB1*03:19:01:01	2 (2)	DPA1*01:03:01:01	2 (1)	DPA1*02:01:01	57(35)	DPB1*04:02:01	40(30)	DPB1*131:01:01	46(35)
DQB1*03:02:01	40(32)	DQB1*03:19:01	40(32)	DPA1*01:03:01	54(33)	DPA1*02:01:01G	2 (1)	DPB1*04:02:01G	11(8)	DPB1*17:01:01G	5 (4)
DQB1*03:02:01G	6 (5)	DQB1*03:01:01G	2 (2)	DPA1*01:03:01G	2 (1)	DPA1*02:01P	5 (3)	DPB1*04:02P	16(12)	DPB1*17:01P	10(8)
DQB1*03:02P	10(8)	DQB1*03:01P	8 (6)	DPA1*01:03P	5 (3)	DPA1*02:01	36(22)	DPB1*04:02	33(25)	DPB1*131:01	34(26)
DQB1*03:02	42(33)	DQB1*03:19	43(34)	DPA1*01:03	38(23)	DPA1*02	100(46)	DPB1*04(DP402)	98(42)	DPB1*17:01	4 (3)
DQB1*03(DQ7)	53(34)	DQB1*03:01	4 (3)	DPA1*01	100(46)			DPB1*04(DP401)	2 (1)	DPB1*131	68(26)
DQB1*03	47(30)	DQB1*03(DQ8)	61(39)							DPB1*17	32(12)
		DQB1*03	39(25)								

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

Table 5. Summary of the 181st DNA Exchange (DNA #1111)

A				B				C			
81 labs High / 64 labs Low		% (n)		80 labs High / 64 labs Low		% (n)		81 labs High / 62 labs Low		% (n)	
A*11:01:01:01	1 (1)	A*68:01:01:02	11(9)	B*35:0:01	52(42)			C*04:01:01:01	1 (1)		
A*11:01:01	53(43)	A*68:01:02:01	1 (1)	B*35:01:01G	4 (3)			C*04:01:01:05	1 (1)		
A*11:01:01G	4 (3)	A*68:02:01:02	1 (1)	B*35:01P	5 (4)			C*04:01:01	53(43)		
A*11:01P	4 (3)	A*68:01:01:01	1 (1)	B*35:01	39(31)			C*04:01:01G	5 (4)		
A*11:01	38(31)	A*68:01:01	41(33)	B*35	100(64)			C*04:01P	2 (2)		
A*11	100(64)	A*68:01:01G	2 (2)					C*04:01	37(30)		
		A*68:01P	2 (2)					C*04	100(62)		
		A*68:01	39(31)								
		A*68	100(64)								

DRB1				DRB3/4/5				DQA1			
81 labs High / 65 labs Low		% (n)		60 labs High / 44 labs Low		% (n)		69 labs High / 53 labs Low		% (n)	
DRB1*01:01:01:01	32(26)	DRB1*04:07:01	46(37)	DRB4*01:03:01	42(25)			DQA1*01:01:01	51(35)	DQA1*03:03:01	52(36)
DRB1*01:01:01G	9 (7)	DRB1*04:07:01G	4 (3)	DRB4*01:01:01G	5 (3)			DQA1*01:01:01G	1 (1)	DQA1*03:01:01G	1 (1)
DRB1*01:01P	21(17)	DRB1*04:07P	12(10)	DRB4*01:01P	20(12)			DQA1*01:01P	9 (6)	DQA1*03:01P	7 (5)
DRB1*01:01	38(31)	DRB1*04:07	37(30)	DRB4*01:03	30(18)			DQA1*01:01	39(27)	DQA1*03:03	3 (2)
DRB1*01	100(65)	DRB1*04:05	1 (1)	DRB4*01:01	3 (2)			DQA1*01	100(53)	DQA1*03:02	36(25)
		DRB1*04	100(65)	DRB4*01	80(35)					DQA1*03	100(53)
				DRB4*PRESENT	20(9)						

DQB1				DPA1				DPB1			
81 labs High / 64 labs Low		% (n)		61 labs High / 41 labs Low		% (n)		78 labs High / 41 labs Low		% (n)	
DQB1*03:01:01:01	1 (1)	DQB1*05:01:01:01	1 (1)	DPA1*01:03:01:02	2 (1)			DPB1*04:01:01:01	1 (1)		
DQB1*03:01:01	37(30)	DQB1*05:01:01	41(33)	DPA1*01:03:01:01	2 (1)			DPB1*04:01:01	36(28)		
DQB1*03:01:01G	12(10)	DQB1*05:01:01G	10(8)	DPA1*01:03:01	54(33)			DPB1*04:01:01G	11(9)		
DQB1*03:01P	11(9)	DQB1*05:01P	11(9)	DPA1*01:03P	10(6)			DPB1*04:01P	18(14)		
DQB1*03:01	38(31)	DQB1*05:01	37(30)	DPA1*01:03	33(20)			DPB1*04:01	33(26)		
DQB1*03(DQ7)	56(36)	DQB1*05	98(63)	DPA1*01	100(41)			DPB1*04(DP401)	100(41)		
DQB1*03	44(28)	DQB1*04	2 (1)								

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

Table 6. Summary of the 181st DNA Exchange (DNA #1112)

A				B				C			
76 labs High / 64 labs Low		% (n)		76 labs High / 64 labs Low		% (n)		76 labs High / 62 labs Low		% (n)	
A*26:01:01:01	12(9)	A*29:02:01:01	13(10)	B*27:05:02	55(41)	B*44:03:01	54(41)	C*02:02:02:01	1 (1)	C*16:01:01:01	10(8)
A*26:01:01	45(34)	A*29:02:01	45(34)	B*27:05:02G	4 (3)	B*44:03:01G	4 (3)	C*02:02:02	53(40)	C*16:01:01	45(34)
A*26:01:01G	3 (2)	A*29:02:01G	3 (2)	B*27:05P	5 (4)	B*44:03P	5 (4)	C*02:02:02G	4 (3)	C*16:01:01G	3 (2)
A*26:01P	4 (3)	A*29:02P	3 (2)	B*27:05	35(26)	B*44:03	37(28)	C*02:02P	7 (5)	C*16:01P	5 (4)
A*26:01	37(28)	A*29:02	34(26)	B*27:03	1 (1)	B*44	100(64)	C*02:02	35(26)	C*16:01	37(28)
A*26	98(63)	A*29:01	3 (2)	B*27	100(64)			C*02	100(62)	C*16	98(61)
A*24	2 (1)	A*29	100(64)							C*01	2 (1)
DRB1				DRB3/4/5				DQA1			
76 labs High / 65 labs Low		% (n)		56 labs High / 44 labs Low		% (n)		64 labs High / 54 labs Low		% (n)	
DRB1*07:01:01:01	1 (1)	DRB1*08:03:02	45(34)	DRB4*01:01:01	36(20)			DQA1*02:01:01	52(33)	DQA1*06:01:01	53(34)
DRB1*07:01:01	45(34)	DRB1*08:03P	5 (4)	DRB4*01:01:01G	20(11)			DQA1*02:01:01G	5 (3)	DQA1*06:01:01G	2 (1)
DRB1*07:01:01G	8 (6)	DRB1*08:03	50(38)	DRB4*01:01P	18(10)			DQA1*02:01	44(28)	DQA1*06:01P	6 (4)
DRB1*07:01P	14(11)	DRB1*08	100(65)	DRB4*01:01	25(14)			DQA1*02	100(54)	DQA1*06:01	37(24)
DRB1*07:01	32(24)			DRB4*01:03	2 (1)					DQA1*04:01	2 (1)
DRB1*07	99(64)			DRB4*01	80(35)					DQA1*06	93(50)
DRB1*15	1 (1)			DRB4*PRESENT	20(9)					DQA1*04	5 (3)
										DQA1*02	2 (1)
DQB1				DPA1				DPB1			
74 labs High / 63 labs Low		% (n)		56 labs High / 42 labs Low		% (n)		63 labs High / 32 labs Low		% (n)	
DQB1*02:02:01	38(28)	DQB1*03:01:01:01	1 (1)	DPA1*01:03:01	52(29)	DPA1*02:01:02	55(31)	DPB1*01:01:01	24(17)	DPB1*02:01:02	26(19)
DQB1*02:01:01G	7 (5)	DQB1*03:01:01	38(28)	DPA1*01:03P	12(7)	DPA1*02:01P	9 (5)	DPB1*01:01:01G	17(12)	DPB1*02:01:02G	24(17)
DQB1*02:01P	11(8)	DQB1*03:01:01G	8 (6)	DPA1*01:03	36(20)	DPA1*02:01	34(19)	DPB1*01:01P	19(14)	DPB1*02:01P	25(18)
DQB1*02:02	44(32)	DQB1*03:01P	12(9)	DPA1*01	100(42)	DPA1*01:03	2 (1)	DPB1*01:01	40(29)	DPB1*02:01	25(18)
DQB1*02	100(63)	DQB1*03:01	40(30)			DPA1*02	98(41)	DPB1*01	100(41)	DPB1*02(DP201)	98(40)
		DQB1*03(DQ7)	59(37)			DPA1*01	2 (1)			DPB1*01	2 (1)
		DQB1*03	41(26)								

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

Table 7. Individual laboratory results for DNA # 1107 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NP	01:01:02	01:04:01	05:01:01G	05:03:01G	01:03:01	01:03:01	02:01:02G	02:01
16	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
125	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	NT	NT	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
134	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02P	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01P	02:01P
138	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
144	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02P	NP	01:01:02	01:04:01	05:01P	05:03P	01:03:01	01:03:01	02:01P	02:01P
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
155	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02:01G	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
160	02:01:01	32:01:01:01	15:01:01	53:01:01:01	03:03:01	04:01:01	01:02	14:07:01	3*02:02P	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01P	02:01P
173	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
185	02:01:01G	32:01:01G	15:01:01G	53:01:01G	03:03:01G	04:01:01G	01:02P	14:07P	3*02:02P	NP	01:01:01G	01:01:01G	05:01P	05:03P	NT	NT	02:01:02G	02:01:02G
188	02:01:01	32:01:01	15:01:01	53:01:01:01	03:03:01	04:01:01	01:02P	14:07:01	NT	NT	01:01:02	01:04:01	05:01P	05:03P	01:03P	01:03P	02:01P	02:01P
189	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
190	02:01:01	32:01:01	15:01:01	53:01:01:01	03:03:01	04:01:01	01:02:01	14:07:01	NT	NT	NT	NT	05:01P	05:03P	NT	NT	02:01P	02:01P
192	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02G	02:01:19
205	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:02
213	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
218	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	NT	NT	NT	NT	05:01	05:03	NT	NT	02:01	02:01
219	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01P	02:01P
227	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
239	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
240	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
258	02:01:01	32:01:01:01	15:01:01	53:01:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02	NP	01:01:02	01:04:01	05:01	05:03	01:03	01:03:01	02:01	02:01:19
264	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
266	02:01	32:01	15:01	53:01	03:03	04:01P	01:02	14:07	3*02:02P	NP	01:01	01:04	05:01P	05:03P	01:03P	01:03	02:01P	02:01
267	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
274	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
279	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01P
280	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
294	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
298	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
307	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	NT	NT	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
316	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
321	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02P	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
323	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	NT	NT	NT	NT	05:01	05:03	NT	NT	02:01	02:01
340	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01P
345	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	NT	NT	01:01:02	01:04:01	05:01	05:03	NT	NT	02:01:02	02:01
353	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
402	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
403	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	NT	NT	NT	NT	05:01:01G	05:03:01G	NT	NT	02:01:02G	02:01:02G
615	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
726	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
805	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02P	NP	01:01	01:04	05:01P	05:03	01:03P	01:03	02:01	02:01
1189	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
1426	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1686	02:01:01:01	32:01:01:01	15:01:01:01	53:01:01:01	03:03:01:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
2015	02:01:01	32:01:01	15:01:01	53:01:01:01	03:03:01	04:01:01	01:02:01	14:07:01	NT	NT	01:01:02	01:04:01	05:01:01:01	05:03:01	NT	NT	02:01P	02:01P
2063	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NT	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	NT	02:01:02	02:01:19
3410	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	NT	NT	NT	NT	05:01	05:03	NT	NT	02:01	02:01
3438	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01	02:01
3582	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01

Table 7. Individual laboratory results for DNA # 1107 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3614	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02:01G	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01:02G	02:01:02G
3625	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NT	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
3849	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4237	02:01:01	32:01:01	15:01:01	53:01:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02	NP	01:01	01:04	05:01P	05:03P	01:03P	01:03P	02:01P	02:01P
4345	02:01:01:01	32:01P	15:01:01:01	53:01P	03:03:01G	04:01:01:01	01:02P	14:07:01	3*02:02:01:01	3*02:02:01:01	01:01P	01:04:01:01	05:01:01:01	05:03:01:01	01:03:01:01	01:03:01:01	02:01P	02:01P
4545	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02:01G	NP	01:01	01:04	05:01:01G	05:03:01G	01:03	01:03	02:01:02G	02:01
4582	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	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	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
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	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01P	02:01P
9227	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	NT	NT	NT	NT	05:01:01	05:03:01	NT	NT	02:01:02	02:01:19
9228	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	3*02:02	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
9230	02:01:01	32:01:01	15:01:01	53:01:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02	NP	01:01:02	01:04:01	05:01	05:03	01:03	01:03:01	02:01	02:01:19
9231	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
9232	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
9233	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	NT	NT	NT	NT	05:01:01G	05:03:01G	NT	NT	NT	NT
14982	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
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	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01G	NT	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	NT	02:01:02	02:01:19
Final Consensus based on High Resolution	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01

Table 8. Individual laboratory results for DNA # 1107 High Resolution

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
124	02:01:01	32:01:01	15:01:01:01	53:01:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01:01	01:03:01	02:01:02	02:01:19
162	02:01	32:01	15:01	53:01	03:03	04:01:01G	01:02	14:07	NT	NT	NT	NT	05:01	05:03	NT	NT	NT	NT
176	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	NT	NT	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
193	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	NT	NT	NT	NT	05:01	05:03	NT	NT	NT	NT
207	02:01:01	32:01:01	15:01:01	53:01:01	03:03:01	04:01:01	01:02:01	14:07:01	3*02:02:01	NP	01:01:02	01:04:01	05:01:01	05:03:01	01:03:01	01:03:01	02:01:02	02:01:19
238	02:01P	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	NT	NT	02:01	02:01
262	NT	NT	NT	NT	NT	NT	01:02	NT	NT	NT	01:05	01:04	05:01	05:03	NT	NT	NT	NT
273	02:01P	32:01P	15:01P	53:01P	03:03P	04:01P	01:02P	14:07P	3*02:02P	NP	01:01P	01:01P	05:01P	05:03P	NT	NT	02:01P	02:01P
288	NT	NT	NT	NT	NT	NT	01:02	14:07	NT	NT	01:01	01:04	05:01	05:03	NT	NT	NT	NT
292	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	NT	NT	NT	NT	05:01	05:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	01:04	NT	NT	NT	NT	NT	NT
313	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	NT	NT	NT	NT	05:01	05:03	NT	NT	NT	NT
317	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:01	05:01	05:03	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
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01:02G	02:01:02G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	02:01P
4420	02:01	32:01	15:01	NT	03:03	04:01	01:02	14:07	3*02:02	3*02:02	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	32:01	15:01	53:01	03:03	04:01	01:02	14:07	3*02:02	NP	01:01	01:04	05:01	05:03	01:03	01:03	02:01	02:01

Table 9. Individual laboratory results for DNA # 1107 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	32	15(B62)	53	03(Cw9)	04	01	14	3*PRESENT	NP	NT	NT	05	05	NT	NT	NT	NT
134	02	32	15	53	03	04	01	14	NT	NT	NT	NT	05	05	NT	NT	02(DP201)	02(DP201)
144	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
147	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
148	02	32	15	53	03	04	01	14	NT	NT	NT	NT	05	05	NT	NT	NT	NT
158	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
162	02	32	15	53	03	04	01	14	NT	NT	NT	NT	05	05	NT	NT	NT	NT
189	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	NT	NT
190	02	32	15(B62)	53	03	04	01	14	3*PRESENT	NP	NT	NT	05	05	NT	NT	NT	NT
192	02	32	15	53	03	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
199	NT	NT	NT	NT	NT	NT	NT	14	3*PRESENT	5*PRESENT	NT	NT	03	04	NT	NT	NT	NT
205	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
207	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
213	02	32	15(B62)	53	03(Cw9)	04	01	14	NT	NT	01	01	05	05	01	01	02(DP201)	02(DP201)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	32	15	53	03	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
228	02	32	15	53	03	04	01	14	3*PRESENT	NP	01	01	05	05	NT	NT	NT	NT
244	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	NT	NT	NT	NT
245	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
252	02	32	15	53	03	04	01	14	3*PRESENT	NP	01	01	05	05	NT	NT	NT	NT
255	02	32	15(B62)	53	NT	NT	01	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	32	15	53	03	04	01	14	3*PRESENT	NP	01	01	05	05	NT	NT	NT	NT
265	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
266	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	01	01	02(DP201)	02(DP201)
267	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
273	02	32	15	53	03	04	01	14	3*02	NP	01	01	05	05	NT	NT	02(DP201)	02(DP201)
274	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
279	02	32	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
282	02	32	15	53	03	04	01	14	NT	NT	NT	NT	05	05	NT	NT	NT	NT
285	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	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	15	53	03	04	01	14	NT	NT	01	01	05	05	NT	NT	NT	NT
292	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	NT	NT	NT	NT
293	02	32	15	53	03	04	01	14	3*PRESENT	NP	01	01	05	05	01	01	02(DP201)	02(DP202)
294	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	NT	NT	02(DP201)	02(DP201)
300	02	32	15	53	03	04	01	14	NT	NT	NT	NT	05	05	NT	NT	NT	NT
305	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	NT	NT	NT	NT
307	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	NT	NT	NT	NT
309	02	32	15	53	03	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
311	02	32	15	53	03	04	01	14	3*PRESENT	NP	01	01	05	05	NT	NT	NT	NT
318	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	01	01	02(DP201)	02(DP201)
323	02	32	15(B62)	53	03	04	01	14	NT	NT	NT	NT	05	05	NT	NT	NT	NT
329	02	02	15	53	03	04	01	14	3*PRESENT	NP	01	01	05	05	NT	NT	NT	NT
334	02	32	15(B62)	53	03(Cw9)	04	01	14	NT	NT	01	01	05	05	01	01	02(DP201)	02(DP201)
336	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
337	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
339	02	32	15(B62)	53	03(Cw9)	04	01	14	3*PRESENT	NP	NT	NT	05	05	NT	NT	NT	NT
340	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)
343	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	01	01	02(DP201)	02(DP201)
345	02	32	15	53	03	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)	02(DP201)

Table 9. Individual laboratory results for DNA # 1107 Low Resolution

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
346	02	32	15(B62)	53	NT	NT	01	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	32	15	53	03	04	01	14	NT	NT	01	01	05	05	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	02	32	15	53	03	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
805	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	NT
1189	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
1251	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
1647	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
2347	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
2518	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
3438	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
3600	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	NT
4237	02	32	15(B62)	53	03(Cw9)	04	01	14	NT	NT	01	01	05	05	01	01	02(DP201)
4420	02	32	15(B62)	NT	03(Cw9)	04	01	14	3*02	3*02	01	04	05	05	01	01	02(DP201)
4582	02	32	15	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
8092	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
9221	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
9222	02	32	15	53	03	04	01	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)
9227	02	32	15	53	03	04	01	14	NT	NT	NT	NT	05	05	NT	NT	NT
9228	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	3*02	01	01	05	05	01	01	02(DP201)
9231	02	32	15(B62)	53	03(Cw9)	04	01	14	NT	NT	01	01	05	05	01	01	02(DP201)
Final Consensus	02	32	15(B62)	53	03(Cw9)	04	01	14	3*02	NP	01	01	05	05	01	01	02(DP201)

Table 10. Individual laboratory results for DNA # 1108 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3614	24:02	34:01	38:02	40:01	04:82	07:02	04:03	15:02:01G	4*01:01:01G	5*01:01:01G	01:02	03:01	03:02	05:02	02:02	02:02	01:01:01G	05:01:01G
3625	24:02:01	34:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	135:01:01
3849	24:02:01	34:01:01:01	38:02:02	40:01:02	04:82:01	07:02:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4237	24:02:01	34:01:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03P	15:02P	4*01:03	5*01:01P	01:02P	03:01P	03:02P	05:02P	02:02P	02:02P	01:01:01	135:01:01
4345	24:02P	34:01P	38:02P	40:01P	04:01:01G	07:02:01G	04:03P	15:02P	4*01:01P	5*01:01P	01:02P	03:01:01:01	03:02P	05:02P	02:02P	02:02P	01:01P	135:01
4545	24:02	34:01	38:02	40:01	04:82	07:02	04:03	15:02:01G	4*01:03	5*01:01:01G	01:02	03:01	03:02:01G	05:02:01G	02:02	02:02	01:01:01G	135:01
4582	24:02	34:01	38:02	40:01	04:82	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	135:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	24:02:01	34:01:01	38:02:02	40:01:02	04:01:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	135:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	24:02:01	34:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01P	05:01P
9227	24:02:01	34:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03	15:02:02	NT	NT	NT	NT	03:02:01	05:02:01	NT	NT	01:01:01	05:01:01
9228	24:02	34:01	38:02	40:01	04:82	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	135:01
9230	24:02:01	34:01:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03	15:02	4*01:03	5*01:01:01	01:02:01	03:01:01:01	03:02	05:02	02:02	02:02	01:01:01	135:01:01
9231	24:02:01	34:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	135:01:01
9232	24:02:01	34:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	135:01:01
9233	24:02:01	34:01:01	38:02:02	40:01:02	04:01:01	07:02:01	04:03:01	15:02:01G	NT	NT	NT	NT	03:02:01G	05:02:01G	NT	NT	NT	NT
14982	24:02:01	34:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01G	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	135:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	24:02:01	34:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03:01	15:02:01	4*01:03:01	5*01:01:01G	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	NT	01:01:01	05:01:01G
Final Consensus based on High Resolution	24:02	34:01	38:02	40:01	NG	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01:01G

Table 11. Individual laboratory results for DNA # 1108 High Resolution

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1	DQB1		DPA1		DPB1			
124	24:02:01	34:01:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03:01	15:02:01	4*01:01:01G	5*01:01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02:01	02:02:02:01	01:01:01	135:01:01
162	24:02	34:01	38:02	40:01	04:01:01G	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
176	24:02	34:01	38:02	40:01	04:82	07:02	04:03	15:02	NT	NT	01:02	03:01	03:02	05:02	02:02	02:02	01:01	135:01
193	24:02	34:01	38:02	40:01	04:82	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
207	24:02:01	34:01:01	38:02:02	40:01:02	04:82:01	07:02:01	04:03:01	15:02:01	4*01:01P	5*01:01	01:02:01	03:01:01	03:02:01	05:02:01	02:02:02	02:02:02	01:01:01	135:01
238	24:02	34:01	38:02	40:01	04:01P	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	NT	NT	01:01	135:01
262	NT	NT	NT	NT	NT	NT	04:03	15:02	NT	NT	01:02	03:01	03:02	05:02	NT	NT	NT	NT
273	24:02P	34:01P	38:02P	40:01P	04:01P	07:02P	04:03P	15:02P	4*01:01P	5*01:01P	01:02P	03:01P	03:02P	05:02P	NT	NT	01:01P	05:01P
288	NT	NT	NT	NT	NT	NT	04:07	15:01	NT	NT	01:02	03:01	03:02	05:02	NT	NT	NT	NT
292	24:02	34:01	38:02	40:01	04:01	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	24:02	34:01	38:02	40:01	04:82	07:02	04:03	15:02	NT	NT	NT	NT	03:02	05:02	NT	NT	NT	NT
317	24:02	34:01	38:02	40:01	04:01	07:02	04:03	15:02	4*01:01	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01:01G	05:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	135:01
4420	NT	34:01	38:02	40:01	04:01	07:02	NT	NT	NT	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01:01G
Final Consensus	24:02	34:01	38:02	40:01	NG	07:02	04:03	15:02	4*01:03	5*01:01	01:02	03:01	03:02	05:02	02:02	02:02	01:01	05:01:01G

Table 12. Individual laboratory results for DNA # 1108 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	24	34	38	40(B60)	04	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03(DQ8)	05	NT	NT	NT	NT
134	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	NT
144	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
147	24	34	38	40	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
148	24	34	38	40	04	07	04	15	NT	NT	NT	NT	03	05	NT	NT	NT	NT
158	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
162	24	34	38	40	04	07	04	15	NT	NT	NT	NT	03	05	NT	NT	NT	NT
189	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	NT	NT
190	24	34	38	40(B60)	04	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03(DQ8)	05	NT	NT	NT	NT
192	24	34	38	40	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	135
199	NT	NT	NT	NT	NT	NT	04	15	4*PRESENT	5*PRESENT	NT	NT	03	05	NT	NT	NT	NT
205	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	135
207	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
213	24	34	38	40(B60)	04	07	04	15	NT	NT	01	03	03(DQ8)	05	02	02	01	05
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	24	34	38	40	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	135
228	24	34	38	40	04	07	04	15	4*PRESENT	5*PRESENT	01	03	03	05	NT	NT	NT	NT
244	24	34	38	40	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
245	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
252	24	34	38	40	04	07	04	15	4*PRESENT	5*PRESENT	01	03	03	05	NT	NT	NT	NT
255	24	34	38	40(B60)	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	24	34	38	40	04	07	04	15	4*PRESENT	5*PRESENT	01	03	03	05	NT	NT	NT	NT
265	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
266	24	34	38	40	04	07	04	15	NT	NT	01	03	03	05	02	02	01	05
267	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
273	24	34	38	40	04	07	04	15	4*01	5*01	01	03	03	05	NT	NT	01	05
274	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
279	24	34	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
282	24	34	38	40	04	07	04	15	NT	NT	NT	NT	03	05	NT	NT	NT	NT
285	24	34	38	40	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
286	24	34	38	40	04	07	04	15	4*01	5*01	01	03	03	05	02	NT	01	05
288	24	34	38	40	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
292	24	34	38	40	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
293	24	34	38	40	04	07	04	15	4*PRESENT	5*PRESENT	01	03	03	05	02	02	01	05
294	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	NT	NT	01	135
300	24	34	38	40	04	07	04	15	NT	NT	NT	NT	03	05	NT	NT	NT	NT
305	24	34	38	40	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
307	24	34	38	40	04	07	04	15	NT	NT	01	03	03	05	NT	NT	NT	NT
309	24	34	38	40	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	24	34	38	40(B60)	04	07	04	15	NT	NT	01	03	03(DQ8)	05	02	02	01	05
323	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
329	24	34	38	40	04	07	04	15	4*PRESENT	5*PRESENT	01	03	03	05	NT	NT	NT	NT
334	24	34	38	40(B60)	04	07	04	15	NT	NT	01	03	03(DQ8)	05	02	02	01	05
336	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
337	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	NT
339	24	34	38	40(B60)	04	07	04	15	4*PRESENT	5*PRESENT	NT	NT	04	05	NT	NT	NT	NT
340	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
343	24	34	38	40	04	07	04	15	NT	NT	01	03	03(DQ8)	05	02	02	01	05
345	24	34	38	40	NT	NT	04	15	NT	NT	01	03	03	05	NT	NT	01	05

Table 12. Individual laboratory results for DNA # 1108 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
346	24	34	38	40(B60)	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	24	34	38	40	04	04	04	15	NT	NT	01	03	03	05	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	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	24	34	38	40	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	05
805	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	NT	NT
1189	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
1251	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
1647	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
2347	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
2518	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
3438	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	NT	NT
3600	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	NT	NT
4237	24	34	38	40(B60)	04	07	04	15	NT	NT	01	03	03(DQ8)	05	02	02	01	135
4420	24	34	38	40(B60)	04	07	04	NT	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
4582	24	34	38	40	04	07	04	15	4*01	5*01	01	03	03	05	02	02	01	135
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
8092	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	NT
9221	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	05
9227	24	34	38	40	04	07	04	15	NT	NT	NT	NT	03	05	NT	NT	NT	NT
9228	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	135
9231	24	34	38	40(B60)	04	07	04	15	NT	NT	01	03	03(DQ8)	05	02	02	01	05
Final Consensus	24	34	38	40(B60)	04	07	04	15	4*01	5*01	01	03	03(DQ8)	05	02	02	01	NG

Table 13. Individual laboratory results for DNA # 1109 using Next Generation Sequencing

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
7	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:01:01G	04:02:01G	01:03:01	02:01:01	04:02:01G	13:01:01
16	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
125	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	NT	NT	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
134	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:01P	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02P	13:01:01
138	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
144	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01P	08:02:01	4*01:03:01	NP	02:01	04:01P	02:01P	04:02P	01:03:01	02:01:01	04:02P	13:01:01
147	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
148	24:25	30:04:01	15:01:01G	41:01:01:01	01:02:01G	17:01:01:05	07:01:01G	08:02:01	NT	NT	NT	NT	02:01:01G	04:02:01G	NT	NT	04:02:01G	13:01:01G
155	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
160	24:25	30:04:01	15:01:01	41:01:01:01	01:02:01	17:01:01:05	07:01:01	08:02	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01:06	04:02P	13:01:01
173	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02P	13:01P
185	24:25	30:04:01G	15:01:01G	41:01:01	01:02:01G	17:01:01G	07:01P	08:02P	4*01:01P	NP	02:01:01G	04:01:01G	02:01P	04:02P	NT	NT	04:02:01G	13:01:01G
188	24:25	30:04:01	15:01:01	41:01:01:01	01:02:01	17:01:01:05	07:01P	08:02:01	NT	NT	02:01:01	04:01:01	02:01P	04:02P	01:03P	02:01P	04:02P	13:01:01
189	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02:01G	13:01:01G
190	24:25	30:04:01	15:01:01	41:01:01:01	01:02:01	17:01:01:05	07:01P	08:02:01	NT	NT	NT	NT	02:01P	04:02P	NT	NT	04:02P	13:01:01
192	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:01:01G	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01G	13:01:01
205	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
213	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:01P	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
218	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	NT	NT	NT	NT	02:02	04:02	NT	NT	04:02	13:01
219	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:01P	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02P	13:01:01
227	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
239	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
240	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:01P	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
258	24:25	30:04:01	15:01:01	41:01:01:01	01:02:01	17:01:01:05	07:01:01	08:02:01	4*01:03	NP	02:01:01	04:01:01	02:02	04:02	01:03:01	02:01:01:06	04:02:01	13:01:01
264	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01G	02:01:01G	04:02:01	13:01:01
266	24:25	30:04	15:01	41:01	01:02P	17:01	07:01P	08:02P	4*01:03	NP	02:01	04:01	02:02	04:02P	01:03P	02:01	04:02P	13:01P
267	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
274	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
279	24:25	30:04	15:01	41:01	01:02	17:01	07:01P	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02P	13:01
280	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	24:25	30:04	15:01	41:01	01:02	17:01	07:01P	08:02	NT	NT	02:01	04:01	02:02	04:02	NT	NT	04:02P	13:01P
298	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02	13:01
307	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	NT	NT	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
316	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
321	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:01P	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
323	24:25	30:04	15:01	41:01	01:02	17:01	07:01P	08:02	NT	NT	NT	NT	02:02	04:02	NT	NT	04:02P	13:01P
340	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
345	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	NT	NT	02:01:01	04:01:01	02:02	04:02	NT	NT	04:02:01	13:01:01
353	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
402	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
403	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01G	08:02:01	NT	NT	NT	NT	02:01:01G	04:02:01G	NT	NT	04:02:01G	13:01:01G
615	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
805	24:25	30:04	15:01	41:01	01:02	17:01	07:01P	08:02	4*01:01P	NP	02:01	04:01	02:02	04:02P	01:03	02:01	04:02	13:01
1189	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
1426	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1686	24:25	30:04:01	15:01:01:01	41:01:01:01	01:02:01:01	17:01:01:05	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01G	13:01:01G
2015	24:25	30:04:01	15:01:01	41:01:01:01	01:02:01	17:01:01:05	07:01:01	08:02:01	NT	NT	02:01:01	04:01:01	02:02:01	04:02:01:04	NT	NT	04:02P	13:01:01
2063	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NT	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	NT
3410	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	NT	NT	NT	NT	02:02	04:02	NT	NT	04:02	13:01
3438	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
3582	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01

Table 13. Individual laboratory results for DNA # 1109 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3614	24:25	30:04	15:01	41:01	01:02	17:01	07:01:01G	08:02	4*01:01:01G	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02:01G	13:01:01G
3625	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NT	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
3849	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4237	24:25	30:04:01	15:01:01	41:01:01:01	01:02:01	17:01:01	07:01P	08:02:01	4*01:03	NP	02:01	04:01P	02:02	04:02P	01:03P	02:01P	04:02P	13:01:01
4345	24:25	30:04:01	15:01:01:01	41:01	01:02P	17:01P	07:01:01:01	08:02P	4*01:01:01G	4*01:01:01G	02:01	04:01P	02:01P	04:02P	01:03:01:01	02:01P	04:02:01:01	13:01P
4545	24:25	30:04	15:01	41:01	01:02	17:01	07:01:01G	08:02	4*01:03	NP	02:01	04:01	02:01:01G	04:02:01G	01:03	02:01	04:02:01G	13:01
4582	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02:01G	13:01:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02P	13:01P
9227	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	NT	NT	NT	NT	02:02:01	04:02:01	NT	NT	04:02:01	13:01:01
9228	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	4*01:03	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
9230	24:25	30:04:01	15:01:01	41:01:01:01	01:02:01	17:01:01:05	07:01:01	08:02:01	4*01:03	NP	02:01:01	04:01:01	02:02	04:02	01:03:01	02:01:01:06	04:02:01	13:01:01
9231	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
9232	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
9233	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01	07:01:01G	08:02:01	NT	NT	NT	NT	02:02:01	04:02:01G	NT	NT	NT	NT
14982	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:03:01	NT	02:01:01	04:01:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02:01	13:01:01
Final Consensus based on High Resolution	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01

Table 14. Individual laboratory results for DNA # 1109 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	24:25	30:04:01	15:01:01:01	41:01:01	01:02:01	17:01:01	FTA	FTA	FTA	FTA	02:01:01	04:01:01	02:02	04:02:01	01:03:01	02:01:01:06	04:02:01	13:01:01
162	24:25	30:04	15:01	41:01	01:02	17:01:01G	07:01	08:02	NT	NT	NT	NT	02:02	04:02	NT	NT	NT	NT
176	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	NT	NT	02:01	04:01	02:02	04:02	01:03	02:01	04:02:01G	13:01:01G
193	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	NT	NT	NT	NT	02:02	04:02	NT	NT	NT	NT
207	24:25	30:04:01	15:01:01	41:01:01	01:02:01	17:01:01	07:01:01	08:02:01	4*01:01P	NP	02:01:01	04:01	02:02:01	04:02:01	01:03:01	02:01:01	04:02P	13:01P
238	24:25	30:04	15:01	41:01	01:02	17:01P	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	NT	NT	04:02	13:01
262	NT	NT	NT	NT	NT	NT	07:01	08:02	NT	NT	02:01	04:01	02:02	04:02	NT	NT	NT	NT
273	24:25	30:04P	15:01P	41:01	01:02P	17:01P	07:01P	08:02P	4*01:01P	NP	02:01	04:01P	02:01P	04:02P	NT	NT	04:02P	13:01P
288	NT	NT	NT	NT	NT	NT	07:01	08:02	NT	NT	02:01	04:01	02:02	04:02	NT	NT	NT	NT
292	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	NT	NT	NT	NT	02:02	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	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	NT	NT	NT	NT	02:02	04:02	NT	NT	NT	NT
317	24:02	30:04	15:01	41:01	01:02	17:01	07:01	08:04	4*01:01	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02:01G	13:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	13:01P
4420	24:25	30:04	15:01	41:01	01:02	NT	07:01	08:02	NT	NT	02:01	04:01	NT	04:02	01:03	02:01	04:02	13:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	24:25	30:04	15:01	41:01	01:02	17:01	07:01	08:02	4*01:03	NP	02:01	04:01	02:02	04:02	01:03	02:01	04:02	13:01

Table 15. Individual laboratory results for DNA # 1109 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	24	30	15(B62)	41	01	17	07	08	4*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
134	24	30	15(B62)	41	01	17	07	08	NT	NT	NT	NT	02	04	NT	NT	04(DP402)	13
144	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	24	30	15	41	01	17	07	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
158	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
162	24	30	15	41	01	17	07	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
189	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	NT	NT
190	24	30	15(B62)	41	01	17	07	08	4*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
192	24	30	15	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
199	NT	NT	NT	NT	NT	NT	07	08	4*PRESENT	4*PRESENT	NT	NT	02	04	NT	NT	NT	NT
205	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
207	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
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	24	30	15	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
228	24	30	15	41	01	17	07	08	4*PRESENT	NP	02	04	02	04	NT	NT	NT	NT
244	24	30	15	41	01	17	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
245	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
252	24	30	15	41	01	17	07	08	4*PRESENT	NP	02	04	02	04	NT	NT	NT	NT
255	24	30	15(B62)	41	NT	NT	07	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	24	30	15	41	01	17	07	08	4*PRESENT	NP	02	04	02	04	NT	NT	NT	NT
265	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
266	24	30	15	41	01	17	07	08	NT	NT	02	04	02	04	01	02	04(DP402)	13
267	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
273	24	30	15	41	01	17	07	08	4*01	NP	02	04	02	04	NT	NT	04(DP402)	13
274	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
279	24	30	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
282	23	30	15	41	01	17	15	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
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	24	30	15	41	01	17	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
292	24	30	15	41	01	17	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
293	24	30	15	41	01	17	07	08	4*PRESENT	NP	02	04	02	04	01	02	04(DP401)	13
294	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	NT	NT	NT	NT
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
305	24	30	15	41	01	17	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
307	24	30	15	41	01	17	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
309	24	30	15	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	24	30	15(B62)	41	01	17	07	08	NT	NT	02	04	02	04	01	02	04(DP402)	13
323	24	30	15(B62)	41	01	17	07	08	4*01	4*01	02	04	02	04	01	02	04(DP402)	13
329	24	30	15	41	01	17	07	08	4*PRESENT	NP	02	04	02	04	NT	NT	NT	NT
334	24	30	15(B62)	41	01	17	07	08	NT	NT	02	04	02	04	01	02	04(DP402)	13
336	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
337	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
339	24	30	15(B62)	41	01	17	07	08	4*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
340	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
343	24	30	15	41	01	17	07	08	NT	NT	02	04	02	04	01	02	04(DP402)	13
345	24	30	15	41	NT	NT	07	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT

Table 15. Individual laboratory results for DNA # 1109 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
346	24	30	15(B62)	41	NT	NT	07	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	24	30	15	41	01	17	07	08	NT	NT	04	04	02	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	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
726	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
732	24	30	15	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
805	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	NT	NT
1189	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
1251	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
1647	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
2347	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
2518	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
3438	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
3600	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	NT	NT
4237	24	30	15(B62)	41	01	17	07	08	NT	NT	02	04	02	04	01	02	04(DP402)	13
4420	24	30	15(B62)	41	01	17	07	08	4*01	4*01	02	04	02	04	01	02	04(DP402)	13
4582	24	30	15	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
8092	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
9221	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13
9227	24	30	15	41	01	17	07	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
9228	24	30	15(B62)	41	01	17	07	08	4*01	4*01	02	04	02	04	01	02	04(DP402)	13
9231	24	30	15(B62)	41	01	17	07	08	NT	NT	02	04	02	04	01	02	04(DP402)	13
Final Consensus	24	30	15(B62)	41	01	17	07	08	4*01	NP	02	04	02	04	01	02	04(DP402)	13

Table 16. Individual laboratory results for DNA # 1110 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01G	4*01:03:01	03:01:01	05:05:01	03:02:01G	03:19:01	01:03:01	02:01:01	04:02:01G	131:01:01
16	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01G	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
125	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NT	NT	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
144	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NT	NT	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	17:01P
147	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NEW	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
148	24:02:01G	24:02:01	14:02:01:01	51:01:01G	08:02:01G	15:09	04:07:01G	13:04	NT	NT	NT	NT	03:02:01G	03:19	NT	NT	04:02:01G	131:01
155	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02:01G	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
160	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02	4*01:03:01	03:01:01	05:05:01	03:02:01	03:01P	01:03:01	02:01:01	04:02P	131:01
173	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
185	24:02:01G	24:02:01G	14:02:01G	51:01:01G	08:02:01G	15:09:01	04:07P	13:04	NEW	4*01:01P	03:01:01G	05:01:01G	03:02P	03:01P	NT	NT	04:02:01G	17:01:01G
188	24:02:01	24:02:01:06	14:02:01:01	51:01:01	08:02:01	15:09:01	04:07P	13:04	NT	NT	03:01:01:01	05:05:01	03:02P	03:01P	01:03P	02:01P	04:02P	131:01:01
189	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NEW	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
190	24:02:01	24:02:01:06	14:02:01:01	51:01:01	08:02:01	15:09:01	04:07P	13:04	NT	NT	NT	NT	03:02P	03:01P	NT	NT	04:02P	131:01:01
192	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:01:01G	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01G	131:01:01
205	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
213	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:01P	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
218	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	NT	NT	03:02	03:19	NT	NT	04:02	131:01
219	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:01P	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02P	131:01:01
227	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
239	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
240	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:01P	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
258	24:02:01	24:02:01:06	14:02:01:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03	03:01:01:01	05:05:01	03:02	03:19	01:03:01	02:01:01	04:02:01	131:01:01
264	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01G	02:01:01G	04:02:01	131:01:01
266	24:02	24:02	14:02	51:01P	08:02	15:09	04:07	13:04	3*02:02	4*01:03:01	03:01	05:05	03:02	03:19	01:03P	02:01	04:02P	17:01P
267	24:02	24:02	14:02	51:01	08:02	15:05	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:01	01:03	02:01	04:02	17:01
274	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01G	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
279	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	03:01	05:05	03:02	03:19	NT	NT	04:02	131:01
280	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01G	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
294	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	03:01	05:05	03:02	03:19	NT	NT	04:02P	131:01
298	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NT	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
307	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
316	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	17:01P
321	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02P	4*01:03:01	03:01:01	05:05:01	03:02P	03:19:01	01:03	02:01:01	04:02:01	131:01:01
323	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	NT	NT	03:02	03:19	NT	NT	04:02	17:01P
340	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	17:01P
345	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09	04:07	13:04	NT	NT	03:01:01	05:05:01	03:02	03:19	NT	NT	04:02	17:01
353	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
402	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
403	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01G	13:04	NT	NT	NT	NT	03:02:01G	03:01:01G	NT	NT	04:02:01G	131:01:01
615	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
805	24:02	24:02	14:02	51:01	08:02	15:09	04:07P	13:04	3*02:02	4*01:01P	03:01	05:05	03:02P	03:19	01:03	02:01	04:02	131:01
1189	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
1426	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02P	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
1647	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:01P	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
1686	24:02:01:01	24:02:01:06	14:02:01	51:01:01	08:02:01:01	15:09:01	04:07:01	13:04	NEW	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
2015	24:02:01	24:02:01	14:02:01:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NT	NT	03:01:01:01	05:05:01	03:02:01:01	03:19:01:01	NT	NT	04:02P	131:01:01
2063	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01G	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	17:01:01G
3410	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	NT	NT	03:02	03:19	NT	NT	04:02	131:01
3438	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
3582	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09	04:07:01	13:04	3*02:02	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19	01:03:01	02:01:01	04:02:01	131:01:01

Table 16. Individual laboratory results for DNA # 1110 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3614	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02P	4*01:01:01G	03:01	05:05	03:02	03:19	01:03	02:01	04:02:01G	17:01:01G
3625	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
3849	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4237	24:02:01	24:02:01	14:02:01:01	51:01:01	08:02:01	15:09:01	04:07P	13:04	3*02:02P	4*01:03	03:01P	05:05	03:02P	03:19:01	01:03P	02:01P	04:02P	131:01:01
4345	24:02:01G	24:02:01G	14:02P	51:01P	08:02P	15:09	04:07P	13:04	3*02:02	4*01:03:01:01	03:01:01:01	05:05:01:01	03:02P	03:01P	01:03:01:01	02:01P	04:02P	17:01P
4545	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02:01G	4*01:03	03:01	05:05	03:02:01G	03:19	01:03	02:01	04:02:01G	131:01
4582	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01:01	NT	NT	NT	01:03:01	02:01:01	NT	NT
6051	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02P	17:01P
9227	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:03:01	13:04	NT	NT	NT	NT	03:02:01	03:19:01	NT	NT	NEW	131:01:01
9228	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
9230	24:02:01	24:02:01:06	14:02:01:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03	03:01:01:01	05:05:01	03:02	03:19	01:03	02:01:01	04:02:01	131:01:01
9231	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
9232	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NEW	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
9233	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	NT	NT	NT	NT	03:02:01G	03:19	NT	NT	NT	NT
14982	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	24:02:01	NT	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01G	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	17:01:01G
Final Consensus based on High Resolution	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NG	4*01:03	03:01	05:05	03:02	NG	01:03	02:01	04:02	17:01:01G

Table 17. Individual laboratory results for DNA # 1110 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	24:02:01	24:02:01:06	14:02:01:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02	4*01:03:01	03:01:01	05:05:01	03:02:01	03:19:01:01	01:03:01	02:01:01	04:02:01	131:01:01
162	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	NT	NT	03:02	03:01:01G	NT	NT	NT	NT
176	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	03:01	05:05	03:02	03:19	01:03	02:01	04:02	131:01
193	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	NT	NT	03:02	03:19	NT	NT	NT	NT
207	24:02:01	24:02:01	14:02:01	51:01:01	08:02:01	15:09:01	04:07:01	13:04	3*02:02:01	4*01:01P	03:01:01	05:05:01	03:02:01	03:19:01	01:03:01	02:01:01	04:02:01	131:01:01
238	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	3*02:02	4*01:03	03:01	05:05	03:02	03:19	NT	NT	04:02	131:01
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
273	24:02P	24:02P	14:02P	51:01P	08:02P	15:09	04:07P	13:04	3*02:02P	4*01:01P	03:01P	05:01P	03:02P	03:01P	NT	NT	04:02P	17:01P
288	NT	NT	NT	NT	NT	NT	04:07	13:04	NT	NT	03:01	05:05	03:02	03:19	NT	NT	NT	NT
292	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	NT	NT	03:02	03:19	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	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NT	NT	NT	NT	03:02	03:19	NT	NT	NT	NT
317	24:02	24:02	14:02	51:01	08:02	15:05	04:07	13:04	3*02:02	4*01:01	03:01	05:01	03:02	03:01	01:03	02:01	04:02	17:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02:01G	131:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	131:01
4420	NT	NT	14:02	51:01	NT	NT	04:07	13:04	3*02:02	NT	03:01	05:05	03:02	03:01	01:03	02:01	04:02	NT
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	131:01
Final Consensus	24:02	24:02	14:02	51:01	08:02	15:09	04:07	13:04	NG	4*01:03	03:01	05:05	03:02	NG	01:03	02:01	04:02	17:01:01G

Table 18. Individual laboratory results for DNA # 1110 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	24	24	14(B65)	51	08	15	04	13	3*PRESENT	4*PRESENT	NT	NT	03(DQ7)	03(DQ8)	NT	NT	NT	NT
134	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	17
144	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	17
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	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	17
162	24	24	14	51	08	15	04	13	NT	NT	NT	NT	03	03	NT	NT	NT	NT
189	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	NT	NT
190	24	24	14(B65)	51	08	15	04	13	3*PRESENT	4*PRESENT	NT	NT	03(DQ7)	03(DQ8)	NT	NT	NT	NT
192	24	24	14	51	08	15	04	13	3*02	4*01	03	05	03	03	01	02	04(DP402)	131
199	NT	NT	NT	NT	NT	NT	04	13	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
205	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
207	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
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	24	24	14	51	08	15	04	13	3*02	4*01	03	05	03	03	01	02	04(DP402)	131
228	24	24	14	51	08	15	04	13	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
244	24	24	14	51	08	15	04	13	NT	NT	03	05	03	03	NT	NT	NT	NT
245	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
252	24	24	14	51	08	15	04	13	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
255	24	24	14(B65)	51	NT	NT	04	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	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
266	24	24	14	51	08	15	04	13	NT	NT	03	05	03	03	01	02	04(DP402)	17
267	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	17
273	24	24	14	51	08	15	04	13	3*02	4*01	03	05	03	03	NT	NT	04(DP402)	17
274	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03	03(DQ8)	01	02	04(DP402)	131
279	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	17
280	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
282	24	24	14	51	08	15	04	13	NT	NT	NT	NT	03	03	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	24	24	14	51	08	15	04	13	NT	NT	03	05	03	03	NT	NT	NT	NT
292	24	24	14	51	08	15	04	13	NT	NT	03	05	03	03	NT	NT	NT	NT
293	24	24	14	51	08	15	04	13	3*PRESENT	4*PRESENT	03	05	03	03	01	02	04(DP401)	131
294	24	24	14(B65)	51	08	15	04	13	3*02	4*01	NT	NT	03(DQ7)	03(DQ8)	NT	NT	04(DP402)	131
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
305	24	24	14	51	08	15	04	13	NT	NT	03	05	03	03	NT	NT	NT	NT
307	24	24	14	51	08	15	04	13	NT	NT	03	05	03	03	NT	NT	NT	NT
309	24	24	14	51	08	15	04	13	3*02	4*01	03	05	03	03	01	02	04(DP402)	17
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	24	24	14(B65)	51	08	15	04	13	NT	NT	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	17
323	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	17
329	24	32	14	51	08	15	04	13	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
334	24	24	14(B65)	51	08	15	04	13	NT	NT	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
336	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	NT
337	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	NT
339	24	24	14(B65)	51	08	15	04	13	3*PRESENT	4*PRESENT	NT	NT	03(DQ7)	03(DQ8)	NT	NT	NT	NT
340	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	17
343	24	24	14	51	08	15	04	13	NT	NT	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
345	24	24	14	51	08	15	04	13	3*02	4*01	03	05	03	03	01	02	04(DP402)	17

Table 18. Individual laboratory results for DNA # 1110 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
346	24	24	14(B65)	51	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	24	24	14	51	08	15	04	13	NT	NT	03	05	03	03	NT	NT	NT	NT
402	24	24	14	51	08	15	04	13	NT	NT	03	05	03	03	01	02	04(DP402)	131
519	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03	01	02	04(DP402)	131
726	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
732	24	24	14	51	08	15	04	13	3*02	4*01	03	05	03	03	01	02	NT	NT
805	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03	03(DQ8)	01	02	NT	NT
1189	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
1251	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
1647	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
2347	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
2518	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
3438	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03	03(DQ8)	01	02	NT	NT
3600	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	NT	NT
4237	24	24	14(B65)	51	08	15	04	13	NT	NT	03	05	03	03(DQ8)	01	02	04(DP402)	131
4420	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	NT
4582	24	24	14	51	08	15	04	13	3*02	4*01	03	05	03	03	01	02	04(DP402)	131
4585	24	NT	14	51	08	15	04	13	3*02	4*01	03	05	03	03	01	02	04(DP402)	NT
8050	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
8092	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	NT
9221	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	131
9227	24	24	14	51	08	15	04	13	NT	NT	NT	NT	03	03	NT	NT	NT	NT
9228	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03	03(DQ8)	01	02	04(DP402)	131
9231	24	24	14(B65)	51	08	15	04	13	NT	NT	03	05	03	03(DQ8)	01	02	04(DP402)	131
Final Consensus	24	24	14(B65)	51	08	15	04	13	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	02	04(DP402)	NG

Table 19. Individual laboratory results for DNA # 1111 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3614	11:01	68:01	35:01	35:01	04:01	04:01	01:01:01G	04:07	4*01:01:01G	NP	01:01	03:03	03:01	05:01	01:03	01:03	04:01:01G	04:01:01G
3625	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01:01	04:07:01	4*01:03:01	NT	01:01:01	03:03:01	03:01:01	05:01:01	01:03:01	01:03:01	04:01:01	04:01:01
3849	11:01:01	66:02:01:02	35:01:01	35:01:01	04:01:01	04:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4237	11:01:01	68:01:02:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01P	04:07P	4*01:03	NP	01:01P	03:03	03:01P	05:01P	01:03P	01:03P	04:01P	04:01P
4345	11:01P	68:01:01:01	35:01P	35:01P	04:01:01:01	04:01:01:01	01:01P	04:07P	4*01:01P	4*01:01P	01:01P	03:01P	03:01:01:01	05:01:01:01	01:03:01:01	01:03:01:01	04:01:01:01	04:01:01:01
4545	11:01	68:01	35:01	35:01	04:01	04:01	01:01:01G	04:07	4*01:03	NP	01:01	03:03	03:01:01G	05:01:01G	01:03	01:03	04:01:01G	04:01:01G
4582	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	4*01:03	NP	01:01	03:03	03:01	05:01	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	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01:01	04:07:01	4*01:03:01	NP	01:01:01	03:03:01	03:01:01	05:01:01	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	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01P	04:07:01	4*01:03:01	NP	01:01:01	03:03:01	03:01:01	05:01:01	01:03:01	01:03:01	04:01P	04:01P
9227	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01	04:07:01	NT	NT	NT	NT	03:01:01	05:01:01	NT	NT	04:01:01	04:01:01
9228	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	4*01:03	4*01:03	01:01	03:03	03:01	05:01	01:03	01:03	04:01	04:01
9230	11:01:01	68:01:01:02	35:01:01	35:01:01	04:01:01	04:01:01:05	01:01	04:07:01	4*01:03	NP	01:01:01	03:03:01	03:01	05:01:01	01:03:01	01:03:01	04:01	04:01
9231	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01:01	04:07:01	4*01:03:01	NP	01:01:01	03:03:01	03:01:01	05:01:01	01:03:01	01:03:01	04:01:01	04:01:01
9232	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01:01	04:07:01	4*01:03:01	NP	01:01:01	03:03:01	03:01:01	05:01:01	01:03:01	01:03:01	04:01:01	04:01:01
9233	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01:01G	04:07:01	NT	NT	NT	NT	03:01:01G	05:01:01G	NT	NT	NT	NT
14982	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01:01	04:07:01	4*01:03:01	NP	01:01:01	03:03:01	03:01:01	05:01:01	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	11:01:01	68:01:01	35:01:01	NT	04:01:01	NT	01:01:01	04:07:01	4*01:03:01	NT	01:01:01	03:03:01	03:01:01	05:01:01	01:03:01	NT	04:01:01	NT
Final Consensus based on High Resolution	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	NG	NP	01:01	03:03	03:01	05:01	01:03	01:03	04:01	04:01

Table 20. Individual laboratory results for DNA # 1111 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	11:01:01	68:01:01:02	35:01:01	35:01:01	04:01:01	04:01:01:05	01:01:01	04:07:01	4*01:01:01G	NP	01:01:01	03:03:01	03:01:01	05:01:01	01:03:01:02	01:03:01:02	04:01:01	04:01:01
162	11:01	68:01	35:01	35:01	04:01:01G	04:01:01G	01:01	04:07	NT	NT	NT	NT	03:01:01G	05:01	NT	NT	NT	NT
176	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	NT	NT	01:01	03:03	03:01	05:01	01:03	01:03	04:01	04:01
193	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	NT	NT	NT	NT	03:01	05:01	NT	NT	NT	NT
207	11:01:01	68:01:01	35:01:01	35:01:01	04:01:01	04:01:01	01:01:01	04:07:01	4*01:01P	NP	01:01:01	03:03:01	03:01:01	05:01:01	01:03:01	01:03:01	04:01:01	04:01:01
238	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	4*01:03	NP	01:01P	03:01P	03:01	05:01	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
273	11:01P	68:01P	35:01P	35:01P	04:01P	04:01P	01:01P	04:07P	4*01:01P	NP	01:01P	03:01P	03:01P	05:01P	NT	NT	04:01P	04:01P
288	NT	NT	NT	NT	NT	NT	01:01	04:05	NT	NT	01:01	03:03	03:01	05:01	NT	NT	NT	NT
292	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	NT	NT	NT	NT	03:01	05:01	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	NT	NT	NT	NT	03:01	05:01	NT	NT	NT	NT
317	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	4*01:01	NP	01:01	03:02	03:01	05:01	01:03	01:03	04:01	04:01
1251	11:01:01G	68:01:01G	35:01:01G	35:01:01G	04:01:01G	04:01:01G	01:01:01G	04:07:01G	4*01:03	NP	NT	NT	03:01:01G	05:01:01G	NT	NT	04:01:01G	04:01:01G
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	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	11:01	NT	NT	NT	04:01	04:01	01:01	04:07	NT	NT	01:01	03:03	03:01	05:01	01:03	01:03	04:01	NT
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	11:01	68:01	35:01	35:01	04:01	04:01	01:01	04:07	NG	NP	01:01	03:03	03:01	05:01	01:03	01:03	04:01	04:01

Table 21. Individual laboratory results for DNA # 1111 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	11	68	35	35	04	04	01	04	4*PRESENT	NP	NT	NT	03(DQ7)	05	NT	NT	NT	NT
134	11	68	35	35	04	04	01	04	4*PRESENT	NP	NT	NT	03(DQ7)	05	NT	NT	04(DP401)	04(DP401)
144	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	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	11	68	35	35	04	04	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
189	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	NT	NT
190	11	68	35	35	04	04	01	04	4*PRESENT	NP	NT	NT	03(DQ7)	05	NT	NT	NT	NT
192	11	68	35	35	04	04	01	04	4*01	NP	01	03	03	05	01	01	04(DP401)	04(DP401)
199	NT	NT	NT	NT	NT	NT	01	04	4*PRESENT	4*PRESENT	NT	NT	03	05	NT	NT	NT	NT
205	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03(DQ7)	05	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	11	68	35	35	04	04	01	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	11	68	35	35	04	04	01	04	4*01	NP	01	03	03	05	01	01	04(DP401)	04(DP401)
228	11	68	35	35	04	04	01	04	4*PRESENT	NP	01	03	03	05	NT	NT	NT	NT
244	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
245	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
252	11	68	35	35	04	04	01	04	4*PRESENT	NP	01	03	03	05	NT	NT	NT	NT
255	11	68	35	35	NT	NT	01	04	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	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
266	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	01	01	04(DP401)	04(DP401)
267	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	04	01	01	04(DP401)	04(DP401)
273	11	68	35	35	04	04	01	04	4*01	NP	01	03	03	05	NT	NT	04(DP401)	04(DP401)
274	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
279	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
280	11	68	35	35	04	04	01	04	4*01	NP	01	03	03	05	01	01	04(DP401)	04(DP401)
282	11	68	35	35	04	04	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
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	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
292	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
293	11	68	35	35	04	04	01	04	4*PRESENT	NP	01	03	03	05	01	01	04(DP401)	04(DP401)
294	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	NT	NT	04(DP401)	04(DP401)
300	11	68	35	35	04	04	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
305	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
307	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
309	11	68	35	35	04	04	01	04	4*01	NP	01	03	03	05	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	11	68	35	35	04	04	01	04	NT	NT	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
323	11	68	35	35	04	04	01	04	4*01	4*01	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
329	11	68	35	35	04	04	01	04	4*PRESENT	NP	01	03	03	05	NT	NT	NT	NT
334	11	68	35	35	04	04	01	04	NT	NT	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
336	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
337	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
339	11	68	35	35	04	04	01	04	4*PRESENT	NP	NT	NT	03(DQ7)	05	NT	NT	NT	NT
340	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
343	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	01	01	04(DP401)	04(DP401)
345	11	68	35	35	04	04	01	04	4*01	NP	01	03	03	05	01	01	04(DP401)	04(DP401)

Table 21. Individual laboratory results for DNA # 1111 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
346	11	68	35	35	NT	NT	01	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
402	11	68	35	35	04	04	01	04	NT	NT	01	03	03	05	01	01	04(DP401)	04(DP401)
519	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
726	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
732	11	68	35	35	04	04	01	04	4*01	NP	01	03	03	05	01	01	04(DP401)	04(DP401)
805	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	NT	NT
1189	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
1251	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
1647	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	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
2518	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
3438	11	68	35	35	04	04	01	04	NT	NT	01	03	03(DQ7)	05	NT	NT	NT	NT
3600	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	NT	NT
4237	11	68	35	35	04	04	01	04	NT	NT	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
4420	11	68	35	35	04	04	01	04	4*01	4*01	01	03	03	05	01	01	04(DP401)	NT
4582	11	68	35	35	04	04	01	04	4*01	NP	01	03	03	05	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	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
8092	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
9221	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	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	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
9227	11	68	35	35	04	04	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
9228	11	68	35	35	04	04	01	04	4*01	4*01	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
9231	11	68	35	35	04	04	01	04	NT	NT	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)
Final Consensus	11	68	35	35	04	04	01	04	4*01	NP	01	03	03(DQ7)	05	01	01	04(DP401)	04(DP401)

Table 22. Individual laboratory results for DNA # 1112 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01G	NP	02:01:01	06:01:01	02:01:01G	03:01:01G	01:03:01	02:01:02	01:01:01	02:01:02G
16	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01G	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
125	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	NT	NT	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
144	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01P	08:03:02	4*01:01P	NP	02:01	06:01P	02:01P	03:01P	01:03:01	02:01:02	01:01:01	02:01P
147	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
148	26:01:01:01	29:02:01:01	27:05:02G	44:03:01G	02:02:02G	16:01:01:01	07:01:01G	08:03:02	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	01:01:01G	02:01:02G
155	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	26:01P	29:02P	27:05P	44:03P	02:02P	16:01P	07:01P	08:03P	4*01:01P	NP	02:01:01G	06:01P	02:01P	03:01P	01:03P	02:01P	01:01P	02:01P
160	26:01:01	29:02:01	27:05P	44:03P	02:02P	16:01P	07:01P	08:03	4*01:01P	NP	02:01	06:01	02:01P	03:01P	01:03:01	02:01:02	01:01P	02:01P
173	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01P	02:01P
185	26:01:01G	29:02:01G	27:05:02G	44:03:01G	02:02:02G	16:01:01G	07:01P	08:03P	4*01:01P	NP	02:01:01G	06:01:01G	02:01P	03:01P	NT	NT	01:01:01G	02:01:02G
188	26:01:01:01	29:02:01:01	27:05:02	44:03:01	02:02:02	16:01:01:01	07:01P	08:03	NT	NT	02:01:01	06:01:01	02:01P	03:01P	01:03P	02:01P	01:01:01	02:01P
189	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01:01G	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01:01G	02:01:02G
190	26:01:01:01	29:02:01:01	27:05:02	44:03:01	02:02:02	16:01:01:01	07:01P	08:03	NT	NT	NT	NT	02:01P	03:01	NT	NT	01:01:01	02:01P
192	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02G
205	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA
213	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
218	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	NT	NT	NT	NT	02:02	03:01	NT	NT	01:01	02:01
219	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01P
227	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
239	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
240	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
258	26:01:01:01	29:02:01:01	27:05:02	44:03:01	02:02:02	16:01:01:01	07:01:01	08:03	4*01:01:01	NP	02:01:01	06:01:01	02:02	03:01	01:03	02:01:02	01:01:01	02:01
264	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
266	26:01	29:02	27:05	44:03	02:02P	16:01	07:01P	08:03	4*01:01P	NP	02:01:01G	06:01:01	02:02	03:01P	01:03P	02:01	01:01P	02:01P
267	26:01	29:01	27:05	44:03	02:02	16:01	07:01	08:03	4*01:03	NP	02:01	04:01	02:02	03:01	01:03	02:01	01:01	02:01
274	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01G	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01G	02:01:02G
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	NT	NT	NT	NT	NT	NT	NT	NT	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	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01	02:01
307	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	NT	NT	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
316	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA
321	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01P	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
323	26:01	29:02	27:05	44:03	02:02	16:01	07:01P	08:03	NT	NT	NT	NT	02:02	03:01P	NT	NT	01:01P	02:01P
340	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
345	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03	NT	NT	02:01:01	06:01:01	02:02	03:01	NT	NT	01:01:01	02:01:02
353	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
402	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
403	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01G	08:03	NT	NT	NT	NT	02:01:01G	03:01	NT	NT	01:01:01	02:01:02G
615	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01G	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
805	26:01	29:02	27:05	44:03	02:02	16:01	07:01P	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03P	02:01P	01:01	02:01
1189	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
1426	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
1647	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01P	NP	02:01	06:01	02:02	03:01	01:03P	02:01	01:01	02:01P
1686	26:01:01:01	29:02:01:01	27:05:02	44:03:01	02:02:02:01	16:01:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01G	02:01:02G
2015	26:01:01:01	29:02:01:01	27:05:02	44:03:01	02:02:02	16:01:01:01	07:01:01	08:03:02	NT	NT	02:01:01	06:01:01	02:02:01	03:01:01	NT	NT	01:01:01	02:01P
2063	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
2347	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01P	NP	02:01	06:01	02:02	03:01P	01:03	02:01	01:01P	02:01P
2862	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01G	NT	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01G	02:01:02G
3410	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	NT	NT	NT	NT	02:02	03:01	NT	NT	01:01	02:01
3438	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
3582	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02

Table 22. Individual laboratory results for DNA # 1112 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3614	26:01	29:02	27:05	44:03	02:02	16:01	07:01:01G	08:03	4*01:01:01G	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01:01G	02:01:02G
3625	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NT	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
3849	26:01:01:01	29:02:01:01	27:05:02	44:03:01	02:02:02	16:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4237	26:01:01:01	29:02:01:01	27:05:02	44:03:01	02:02:02	16:01:01:01	07:01P	08:03	4*01:01P	NP	02:01	06:01P	02:02	03:01	01:03P	02:01P	01:01P	02:01P
4345	26:01P	29:02:01:01	27:05P	44:03P	02:02P	16:01P	07:01:01:01	08:03P	4*01:01:01G	4*01:01:01G	02:01	06:01	02:01P	03:01:01:01	01:03P	02:01P	01:01P	02:01P
4545	26:01	29:02	27:05	44:03	02:02	16:01	07:01:01G	08:03	4*01:01:01G	NP	02:01	06:01	02:01:01G	03:01:01G	01:03	02:01	01:01:01G	02:01:02G
4582	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01:01G	02:01:02G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01P	02:01P
9227	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	NT	NT	NT	NT	02:02:01	03:01:01	NT	NT	01:01:01	02:01:02
9228	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	4*01:01	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
9230	26:01:01:01	29:02:01:01	27:05:02	44:03:01	02:02:02	16:01:01:01	07:01:01	08:03	4*01:01:01	NP	02:01:01	06:01:01	02:02	03:01	01:03	02:01:02	01:01:01	02:01
9231	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01G	02:01:02G
9232	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
9233	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01G	08:03	NT	NT	NT	NT	02:02	03:01:01G	NT	NT	NT	NT
14982	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01G	NP	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01	02:01:02
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45852	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01G	NT	02:01:01	06:01:01	02:02:01	03:01:01	01:03:01	02:01:02	01:01:01G	02:01:02G
Final Consensus based on High Resolution	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01

Table 23. Individual laboratory results for DNA # 1112 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA
162	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	NT	NT	NT	NT	02:02	03:01:01G	NT	NT	NT	NT
176	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	NT	NT	02:01	06:01	02:02	03:01	01:03	02:01	01:01:01G	02:01:02G
193	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
207	26:01:01	29:02:01	27:05:02	44:03:01	02:02:02	16:01:01	07:01:01	08:03:02	4*01:01:01	NP	02:01:01	06:01:01	NT	NT	NT	NT	01:01P	02:01P
238	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	NT	NT	01:01	02:01
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
273	26:01P	29:02P	27:05P	44:03P	02:02P	16:01P	07:01P	08:03P	4*01:01P	NP	02:01	06:01P	02:01P	03:01P	NT	NT	01:01P	02:01P
288	NT	NT	NT	NT	NT	NT	07:01	08:03	NT	NT	02:01	06:01	02:02	03:01	NT	NT	NT	NT
292	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	06:01	NT	NT	NT	NT	NT	NT
313	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
317	26:01	29:01	27:03	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01
1251	26:01:01G	29:02:01G	27:05:02G	44:03:01G	02:02:02G	16:01:01G	07:01:01G	08:03:02	4*01:01	NP	NT	NT	02:01:01G	03:01:01G	NT	NT	01:01:01G	02:01:02G
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01:01G	02:01:02G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	02:01P
4420	26:01	29:02	NT	44:03	NT	16:01	07:01	08:03	NT	NT	02:01	06:01	NT	03:01	01:03	01:03	01:01	02:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	26:01	29:02	27:05	44:03	02:02	16:01	07:01	08:03	4*01:01	NP	02:01	06:01	02:02	03:01	01:03	02:01	01:01	02:01

Table 24. Individual laboratory results for DNA # 1112 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	26	29	27	44	02	16	07	08	4*PRESENT	NP	NT	NT	02	03(DQ7)	NT	NT	NT	NT
134	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
144	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	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	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	26	29	27	44	02	16	07	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
189	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	NT	NT
190	26	29	27	44	02	16	07	08	4*PRESENT	NP	NT	NT	02	03(DQ7)	NT	NT	NT	NT
192	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03	01	02	01	02(DP201)
199	NT	NT	NT	NT	NT	NT	07	08	4*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
205	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
207	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	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03	01	02	01	02(DP201)
228	24	29	27	44	02	16	07	08	4*PRESENT	NP	02	04	02	03	NT	NT	NT	NT
244	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03	NT	NT	NT	NT
245	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
252	26	29	27	44	02	16	07	08	4*PRESENT	NP	02	02	02	03	NT	NT	NT	NT
255	26	29	27	44	NT	NT	07	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	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
266	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03	01	02	01	02(DP201)
267	26	29	27	44	02	16	07	08	4*01	NP	02	04	02	03(DQ7)	01	02	01	02(DP201)
273	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03	NT	NT	01	02(DP201)
274	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
279	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
280	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03	01	02	01	01
282	26	29	27	44	02	16	15	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03	NT	NT	NT	NT
292	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03	NT	NT	NT	NT
293	26	29	27	44	02	16	07	08	4*PRESENT	NP	02	06	02	03	01	02	01	02(DP201)
294	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03(DQ7)	NT	NT	01	02(DP201)
300	26	29	27	44	02	16	07	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
305	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03	NT	NT	NT	NT
307	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03	NT	NT	NT	NT
309	26	29	27	44	02	16	07	08	4*01	NP	02	04	02	03	01	02	01	02(DP201)
311	26	29	27	44	02	16	07	08	4*PRESENT	4*PRESENT	02	06	02	03	NT	NT	NT	NT
318	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03(DQ7)	01	02	01	02(DP201)
323	26	29	27	44	02	16	07	08	4*01	4*01	02	06	02	03(DQ7)	01	02	01	02(DP201)
329	26	29	27	44	02	01	07	08	4*PRESENT	NP	02	06	02	03	NT	NT	NT	NT
334	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03(DQ7)	01	02	01	02(DP201)
336	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
337	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
339	26	29	27	44	02	16	07	08	4*PRESENT	NP	NT	NT	02	03(DQ7)	NT	NT	NT	NT
340	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
343	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03(DQ7)	01	02	01	02(DP201)
345	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03	01	02	01	02(DP201)

Table 24. Individual laboratory results for DNA # 1112 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
346	26	29	27	44	NT	NT	07	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03	NT	NT	NT	NT
402	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03	01	02	01	02(DP201)
519	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
726	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
732	26	29	27	44	02	16	07	08	4*01	NP	NT	NT	02	03	01	02	01	02(DP201)
805	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	NT	NT
1189	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
1251	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
1647	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
3438	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03(DQ7)	NT	NT	NT	NT
3600	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	NT	NT
4237	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03(DQ7)	01	02	01	02(DP201)
4420	26	29	27	44	02	16	07	08	4*01	4*01	02	06	02	03(DQ7)	01	01	01	02(DP201)
4582	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03	01	02	01	02(DP201)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
8092	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
9221	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)
9227	26	29	27	44	02	16	07	08	NT	NT	NT	NT	02	03	NT	NT	NT	NT
9228	26	29	27	44	02	16	07	08	4*01	4*01	02	06	02	03(DQ7)	01	02	01	02(DP201)
9231	26	29	27	44	02	16	07	08	NT	NT	02	06	02	03(DQ7)	01	02	01	02(DP201)
Final Consensus	26	29	27	44	02	16	07	08	4*01	NP	02	06	02	03(DQ7)	01	02	01	02(DP201)

Table 25. Individual laboratory results for DNA # 1107 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	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	NT	NT	NT	NT	NT	NT	NT	002:01/002:03/018:01	003:01/005:02/005:08/006/010/019:01/038	NGS in house	
227	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	02:03:02	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:23-860	
258	01:01	01:01	01:01	01:01	01:01	01:01	NT	NT	NT	NT	NT	NGS-GIL	
1686	01:01:01:--	01:01:01:--	01:01:01:--	01:01:01:--	01:01:01:01	01:01:01:01	01:01:01:05	2:03:02	002:01	005:02	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	
9231	NT	NT	NT	NT	NT	NT	NT	NT	002:01/018:01	005:02/019:01	NGS-INH		
9232	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	02:03:02	002:01	005:02	INH		

Table 26. Individual laboratory results for DNA # 1108 High Resolution

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	NT	NT	NT	NT	NT	NT	002:01/002:03/018:01	003:01/005:02/005:08/006/010/019:01/038	NGS in house	
227	01:03:02	01:03:02	01:01:01	01:01:01	01:04:01	01:01:03(Exon4 705bp G>A)	DEL	02:27	002:01	005:02(Exon1 32bp C>T)	NGS-CareDx Alloseq Tx17 lot:23-860	
258	01:03	01:03	01:01	01:01	01:01:XX	01:04:XX	NT	NT	NT	NT	NGS-GIL	1108 G * 01:01:xx is a G → A mutation in G * 01:01:03 at the 705bp position of exon4, where the amino acid sequence is Ala → Ala, or G * 01:04:xx is a G → A mutation in G * 01:04:01 at the 705bp position of exon4, where the amino acid sequence is Ala → Ala.
1686	01:03:02:--	01:03:02:--	01:01:01:09	01:01:01:09	01:04:01:01	01:NEW	DEL	02:27	002:01	05:008:NEW	NGS-AlloSeq Tx17	HLA-E: E*01:03:02:01 or E*01:03:02:32 HLA-G: New allele Ref. G*01:20, Exon 3 c178.2 ACG > ATG / Thr > Met MICB: New allele Ref. MICB*005:08, Exon 6 c355.3 GGC > GGT / Synonymous
9231	NT	NT	NT	NT	NT	NT	NT	NT	002:01/018:01	005:02/019:01	NGS-INH	
9232	01:03:02	01:03:02	01:01:01	01:01:01	01:04:01	01:new	DEL	02:27	002:01	new	INH	HLA-G new,ref.HLA-G*01:20 E 3 c178.2 ACG-ATG Thr-Met MICB new,ref.MICB*005:08 E 6 c355.3 GGC-GGT Gly-Gly or ref.MICB*010 E 6 c360.1 ACC-GCC Thr-Ala

Table 27. Individual laboratory results for DNA # 1109 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	01:03/01:06/01:10/01:11/01:12/01:123/01:138/01:145/01:147	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	003:01/005:02/005:08/006/010	NGS in house	
227	01:01:01	01:03:01	01:01:01	01:03:01	01:01:30	01:04:01	DEL	02:23	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:23-860	
258	01:01	01:03	01:01	01:03	01:01	01:04	NT	NT	NT	NT	NGS-GIL	
1686	01:01:01:10	01:03:01:01	01:01:01:--	01:03:01:--	01:01:30:02	01:04:01:01	02:23	DEL	005:02	005:02	NGS-AlloSeq Tx17	HLA-F: F*01:01:01:01 or F*01:01:01:17
9231	NT	NT	NT	NT	NT	NT	NT	NT	005:02	005:02	NGS-INH	
9232	01:01:01	01:03:01	01:01:01	01:03:01	01:01:30	01:04:01	DEL	02:23	005:02	005:02	INH	

Table 28. Individual laboratory results for DNA # 1110 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/01:149/01:150		NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	003:01/005:02/005:08/006/010	NGS in house	
227	01:01:01	01:03:02	01:01:01	01:01:01	01:04:01	01:04:01	DEL	DEL		005:02	005:02	NGS-CareDx Alloseq Tx17 lot:23-860		
258	01:01	01:03	01:01	01:01	01:04	01:04	NT	NT		NT	NT	NGS-GIL		
1686	01:01:01:--	01:03:02:--	01:01:01:09	01:01:01:09	01:04:01:01	01:04:01:01	DEL	DEL		005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 HLA-E: E*01:03:02:01 or E*01:03:02:32	
9231	NT	NT	NT	NT	NT	NT	NT	NT		005:02	005:02	NGS-INH		
9232	01:01:01	01:03:02	01:01:01	01:01:01	01:04:01	01:04:01	DEL	DEL		005:02	005:02	INH		

Table 29. Individual laboratory results for DNA # 1111 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	002:01/002:03	002:01/002:03	NGS in house	
227	01:01:01	01:01:01	01:01:01	01:01:02	01:01:02	01:01:03	02:05:01	02:07:01		002:01	002:01	NGS-CareDx Alloseq Tx17 lot:23-860		
258	01:01	01:01	01:01	01:01	01:01	01:01	NT	NT		NT	NT	NGS-GIL		
1686	01:01:01:--	01:01:01:--	01:01:01:18	01:01:02:09	01:01:02:01	01:01:03:03	02:05:01:01	02:07:01:01		002:01	002:01	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20	
9231	NT	NT	NT	NT	NT	NT	NT	NT		002:01	002:01	NGS-INH		
9232	01:01:01	01:01:01	01:01:01	01:01:02	01:01:02	01:01:03	02:05:01	02:07:01		002:01	002:01	INH		

Table 30. Individual laboratory results for DNA # 1112 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		01:03/01:06/01:10/01:11/01:122/01:123/01:138/01:145/01:147		NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	018:01	NGS in house	
227	01:01:01	01:03:01	01:01:01	01:01:01	01:01:01	01:01:02	01:02:01	02:02:01		005:02	018:01	NGS-CareDx Alloseq Tx17 lot:23-860		
258	01:01	01:03	01:01	01:01	01:01	01:01	NT	NT		NT	NT	NGS-GIL		
1686	01:01:01:--	01:03:01:01	01:01:01:08	01:01:01:08	01:01:01:04	01:01:02:01	01:02:01:01	02:02:01:01		005:02	018:01	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20	
9231	NT	NT	NT	NT	NT	NT	NT	NT		005:02	018:01	NGS-INH		
9232	01:01:01	01:03:01	01:01:01	01:01:01	01:01:01	01:01:02	01:02:01	02:02:01		005:02	018:01	INH		

DNA Exchange - 181 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	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
125	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG
134	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	OLE-SSP GIL-NGS
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
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	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS			GIL-NGS		GIL-NGS
155	LT-NGS	LT-NGS	LT-NGS	LT-NGS	LT-NGS	LT-NGS	LT-NGS	LT-NGS	LT-NGS
160	IMM-NGS GIL-SBT	IMM-NGS GIL-SBT	IMM-NGS GIL-SBT	GIL-IMM-SBT GIL-IMM-NGS	GIL-IMM-SBT GIL-IMM-NGS	IMM-NGS GIL-SBT	IMM-NGS GIL-SBT	IMM-NGS GIL-SBT	IMM-NGS GIL-SBT
162	BS-SBT	BS-SBT	BS-SBT	BS-SBT			BS-SBT		
173	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
176	INH-SBT	INH-SBT	INH-SBT	INH-SBT		INH-SBT	INH-SBT	INH-SBT	INH-SBT
185	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS		INH-NGS
188	GIL-NGS	OL-SSP GIL-NGS	GIL-NGS	GIL-NGS ACT-SBT		GIL-NGS	GIL-NGS	GIL-NGS	OL-SSP GIL-NGS
189	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
190	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS			GIL-NGS		GIL-NGS
192	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-NGS
193	SBT-SC-TBG LUM-OL-SSO	SBT-SC-TBG LUM-OL-SSO	SBT-SC-TBG LUM-OL-SSO	SBT-SC-TBG LUM-OL-SSO			SBT-SC-TBG LUM-OL-SSO		
205	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS
207					OLE-SSP				OLE-SSP
213	HM-NGS	HM-NGS	HM-NGS	HM-NGS	OLE-SSP HM-NGS	OLE-SSP HM-NGS	HM-NGS	HM-NGS	OLE-SSP HM-NGS
218	INH-NGS	INH-NGS	INH-NGS	INH-NGS			INH-NGS		INH-NGS
219	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
227	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
238	HT-SSO	HT-SSO	HT-SSO	HT-SSO	OLE-SSP	OLE-SSP HT-SSO	OLE-SSP HT-SSO		OLE-SSP
239	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
240	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS
258	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS
262				OLE-SSP IMM-SSO		OLE-SSP IMM-SSO	OLE-SSP IMM-SSO		
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
267	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO
273	Other-Others OLE-SSP BAG-SSO	Other-Others OLE-SSP BAG-SSO	Other-Others OLE-SSP BAG-SSO	Other-Others OLE-SSP BAG-SSO	Other-Others OLE-SSP	Other-Others OLE-SSP BAG-SSO	Other-Others OLE-SSP BAG-SSO		Other-Others OLE-SSP
274	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
279	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	OLE-SSP	OLE-SSP NGS-OMX	NGS-OMX	OLE-SSP	OLE-SSP NGS-OMX
280	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
288				OLE-SSP		OLE-SSP	OLE-SSP		
292	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO		
294	INH-OMX-NGS	INH-OMX-NGS	INH-OMX-NGS	INH-OMX-NGS	INH-NGS	INH-OMX-NGS	INH-OMX-NGS	INH-NGS	INH-OMX-NGS

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
298	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
307	NGS-OL	OL-SSP NGS-OL	OL-SSP NGS-OL	NGS-OL		NGS-OL	OL-SSP NGS-OL	NGS-OL	NGS-OL
311						OLE-SSP			
313	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	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO
321	OL-SSO NGS-OL	OL-SSO OLE-SSP NGS-OL	OL-SSO OLE-SSP NGS-OL	OL-SSO NGS-OL	OLE-SSP NGS-OL	OLE-SSP NGS-OL	OLE-SSP NGS-OL	NGS-OL	OLE-SSP NGS-OL
323	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX			NGS-OMX		NGS-OMX
340	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
345	OLE-SSP GIL-SBT GIL-NGS	GIL-SBT GIL-NGS	GIL-SBT GIL-NGS	GIL-SBT GIL-NGS		GIL-NGS	GIL-SBT GIL-NGS		GIL-NGS
353	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS
402	NGS-OL GD-SBT	NGS-OL GD-SBT	NGS-OL GD-SBT	NGS-OL GD-SBT	NGS-OL	NGS-OL	NGS-OL GD-SBT	NGS-OL	NGS-OL GD-SBT
403	GIL-LS-NGS	GIL-NGS	GIL-NGS	GIL-NGS			GIL-NGS		GIL-NGS
615	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
726	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS
805	GIL-NGS								
1189	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	LC-OL-NGS	NGS-OL	NGS-OL
1251	PRO-SBT	PRO-SBT	PRO-SBT	PRO-SBT	OLE-SSP		PRO-SBT		PRO-SBT
1426	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG
1647	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS
1686	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
2015	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS		OL-SSO OL-SBT GD-NGS	OL-SSO GD-NGS		OL-SSO GD-NGS
2063	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
2347	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
2518									OL-SSO
2862	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
3410	GIL-NGS	OL-SSO GIL-NGS	GIL-NGS	GIL-NGS			GIL-NGS		OL-SSO GIL-NGS
3438	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3582	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3600									LS-rPCR
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
3849	INH-NGS	INH-NGS	INH-NGS						
4237	SBT-TBG GD-NGS	GD-NGS	GD-NGS	GD-NGS	OLE-SSP	OLE-SSP IMM-SSO	GD-NGS	IMM-SSO	GD-NGS
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	LC-SSO	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK
4545	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
4582	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
6051	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS
8092									LS-rPCR
9226	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
9227	GIL-NGS	GIL-NGS	GIL-NGS	OLE-SSP GIL-NGS			OLE-SSP GIL-NGS		GIL-NGS

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
9228	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
9230	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
9231	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS
9232	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS
14982	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
45452	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
45852	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

DNA Exchange - 181 Participants and Methods Low Resolution

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
126	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG		SSP-TBG		
134	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	OLE-SSP LS-rtPCR
144	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
147	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
148	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO			BAG-SSO		
162	BS-SSP	BS-SSP	BS-SSP	BS-SSP			BS-SSP		
189	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
190	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP		
192	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
199				OL-SSP	OL-SSP		OL-SSP		
205	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
207	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	LS-rtPCR
213	INN-SSP	INN-SSP	INN-SSP	INN-SSP		INN-SSP	INN-SSP	INN-SSP	INN-SSP
215	BR-SSP	BR-SSP	BR-SSP	OLE-SSP			OLE-SSP		
227	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
228	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO		
244	BAG-SSO	BAG-SSO	OL-SSP BAG-SSO	OL-SSP		OLE-SSP BAG-SSO	BAG-SSO		
245	OL-SSO CQ-LS-rtPCR	OL-SSO CQ-LS-rtPCR	OL-SSO CQ-LS-rtPCR	OL-SSO CQ-LS-rtPCR	CQ-LS-rtPCR	OL-SSO CQ-LS-rtPCR	OL-SSO CQ-LS-rtPCR	OL-SSO CQ-LS-rtPCR	OL-SSO CQ-LS-rtPCR
252	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP
255	OL-SSO	OL-SSO		OL-SSO					
262	PRO-SSP IMM-SSO	PRO-SSP IMM-SSO	PRO-SSP IMM-SSO	PRO-SSP IMM-SSO	PRO-SSP IMM-SSO	OLE-SSP IMM-SSO	PRO-SSP IMM-SSO		
265	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
266	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
267	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO
273	Other-Others BAG-SSO BAG-PRO-SSP	Other-Others BAG-SSO BAG-PRO-SSP	Other-Others BAG-SSO BAG-PRO-SSP	Other-Others BAG-SSO BAG-PRO-SSP	Other-Others BAG-PRO-SSP	Other-Others BAG-SSO	Other-Others BAG-SSO BAG-PRO-SSP		Other-Others OLE-SSP
274	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
279	LB-OLE-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP
280	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
282	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP			OLE-SSP		
285	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO		LUM-SSO	LUM-SSO		
286	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
288	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO		BAG-SSO	BAG-SSO		
292	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO		
293	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO
294	Other-Others LS-OLE-SSP IMM-SSO	Other-Others LS-OLE-SSP IMM-SSO	Other-Others LS-OLE-SSP IMM-SSO	Other-Others LS-OLE-SSP IMM-SSO	OLE-SSP	LS-SSP IMM-SSO	Other-Others LS-OLE-SSP IMM-SSO		LS-OLE-SSP
300	OL-SSP CQ-LB-LS-SG-rtPCR	OL-SSP	OL-SSP	OL-SSP			OL-SSP		
305	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO		
307	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO		
309	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
311	PRO-SSP	PRO-SSP	PRO-SSP	PRO-SSP	PRO-SSP	PRO-SSP	PRO-SSP		
318	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-SSO
323	OLE-SSP LB-rtPCR	OLE-SSP LB-rtPCR	OLE-SSP LB-rtPCR	OLE-SSP LB-rtPCR	CQ-LB-rtPCR	LB-rtPCR	OLE-SSP LB-rtPCR	LB-rtPCR	LB-rtPCR
329	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP		
334	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
337	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR

Participants and Methods Low Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
339	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP
340	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
343	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO
345	OLE-SSP	OLE-SSP		OLE-SSP			OLE-SSP		
	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
	IMM-SSO	IMM-SSO		IMM-SSO		IMM-SSO	IMM-SSO		IMM-SSO
346	OLE-SSP	OLE-SSP		OLE-SSP					
350	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO		
402	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO
519	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO
726	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
732	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
805	IMM-SSO								
1189	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
1251	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO
1647	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR
2347	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
2518	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
3438	LS-WAK-SSP	LS-SSP	LS-SSP	LS-SSP		LS-SSP	LS-SSP		
	LC-SSO	LC-SSO	LC-SSO	LC-SSO	LS-OL-SSP	LC-SSO	LC-SSO	LS-SSP	LS-SSP
3600	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	
4237	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK
4582	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
4585	INN-SSO	INN-SSO	INN-SSO						
8050	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
8092	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
9221	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR
9222	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO					
9225	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
9227	OLE-TEP-SSO	SSO-TEP	SSO-TEP	SSO-TEP			SSO-TEP		
	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP					
9228	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
9231	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-SSO