

UCLA INTERNATIONAL HLA DNA EXCHANGE 185TH SUMMARY



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DNA Sample	
#1131	#1134
#1132	#1135
#1133	#1136

DNA #1131 ASIAN

HLA-A		HLA-B		HLA-C	
02:01	02:06	40:01	55:02	04:82	08:01
DRB1		DRB3/4/5		DQA1	
04:03	08:03	4*01:03	NP	01:03	03:01
				DQB1	
				03:02	06:01
				DPA1	
				02:02	
				DPB1	
					135:01

Seven participants reporting high resolution results reported C*04:01. Interestingly, 97% of participants reporting NGS results reported C*04:82. C*04:82 was identical to C*04:01:01:01 in exons 2,3 and 4. It differed from C*04:01:01:01 in exon 5 as noted in *Deduced probable HLA haplotypes associated with HLA-C*04:82 found in case analysis of Taiwanese individuals* (Yang, Kuo-Liang. Tzu Chi Medical Journal 28, 2016. 99-102). In this same study, it was found that there is a strong linkage between C*04:82 and B*40:01. It was also determined that C*04:82 is an associated HLA haplotypes among Taiwanese individuals.

The likely class II associations for this cell are DRB1*04:03-DQB1*03:02 and DRB1*08:03-DQB1*06:01, with respective frequencies of HF=0.03222 and HF=0.04765, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #1131 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9. The results for DNA #1131 HLA-E, -F, -G, -H , and MICB data can be found below and on Table 25.

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB	
192	01:03/01:06/01:10/01:11/01:122/01:123/01:138/01:145/01:147	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/005:13/006/010	003:01/005:02/005:08/005:13/006/010
227	01:03:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	005:02	005:02
1686	01:03:01	01:03:02:--	01:01:01:--	01:01:01:--	01:01:01:01	01:01:01:01	01:01:01:01	01:01:01:01	005:02	005:02
9232	01:03:01:01	01:03:02	01:01:01	01:01:01	01:01:01:01	01:01:01:01	01:01:01:01	01:01:01:01	005:02	005:02



DNA Sample

#1131	#1134
#1132	#1135
#1133	#1136

DNA #1132 HISPANIC

HLA-A	HLA-B	HLA-C			
26:01 30:01	13:02 38:01	06:02 12:03			
DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
07:01	4*01:01 4*01:03	02:01	02:02	02:01	11:01 17:01

Four participants reporting NGS results could not exclude DPB1*907:01. In a study done by Ingram et al, it was found that DPB1*907:01 matches DPB1*11:01 at exon 1 and 2, but differs in exon 3 and 5 with 7 nucleotide positions in exon 3 and 1 nucleotide position in exon 5 as noted in *NGS and HLA: The long road ahead* (Ingram, K.J et al. Human Immunology 81, 2020. 280-284).

The likely class I associations in this cell are A*26:01-B*38:01-C*12:03 and A*30:01-B*13:02-C*06:02, with respective frequencies of HF=0.00854 and HF=0.00505, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1132 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12. The results for DNA #1132 HLA-E, -F, -G, -H, and MICB data can be found below and on Table 26.

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB	
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	01:03/01:06/01:10/01:11/01:122/01:12 3/01:138/01:145/01:147	NT	NT	NT	NT	NT	NT	003:01/005:02/005: 08/005:13/006/010	003:01/005:02/005:08 /005:13/006/010
227	01:01:01	01:03:01	01:01:01	01:01:01	01:01:02	01:05:01N	01:02:01	02:05:01	005:02	005:02
1686	01:01:01:--	01:03:01:01	01:01:01:08	01:01:01:--	01:01:02:01	01:05:01N	01:02:01:02	02:05:01:03	005:02	005:02
9232	01:01:01	01:03:01:01	01:01:01:08	01:01:01	01:01:02:01	01:05:01N	01:02:01:02	02:05:01:03	005:02	005:02



DNA Sample

#1131	#1134
#1132	#1135
#1133	#1136

DNA #1133 HISPANIC

HLA-A		HLA-B		HLA-C					
24:02	68:03	39:05	40:01	03:04	07:02				
DRB1		DRB3/4/5		DQA1		DQB1		DPA1	
01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	01:01 13:01

The likely class II associations for this cell are DRB1*01:01-DQB1*05:01 and DRB1*04:07-DQB1*03:02, with respective frequency of HF=0.04174 and HF=0.05700, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1133 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15. The results for DNA #1133 HLA-E, -F, -G, -H, and MICB data can be found below and on Table 27.

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB	
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	002:01/002:03/002:06/018:01	003:01/005:02/005:08/005:13/006/010/019:01/038
227	01:01:01	01:03:02	01:01:02	01:03:01	01:01:02	01:04:01	02:05:01	DEL	002:01	005:02
1686	01:01:01:--	01:03:02:--	01:01:02:08	01:03:01:--	01:01:02:01	01:04:01:01	02:05:01:01	DEL	002:01	005:02
9232	01:01:01	01:03:02	01:01:02:08	01:03:01	01:01:02:01	01:04:01:01	02:05:01:01	DEL	002:01	005:02

**DNA Sample**

#1131	#1134
#1132	#1135
#1133	#1136

DNA #1134 HISPANIC

HLA-A		HLA-B		HLA-C			
02:06	33:01	14:02	15:30	01:02	08:02		
DRB1		DRB3/4/5		DQA1		DQB1	
01:02	08:02	NP	NP	01:01	04:01	04:02	05:01
						DPA1	
						01:03	
						DPB1	
						02:01	04:02

The likely class II associations in this cell are DRB1*01:02-DQB1*05:01 and DRB1*08:02-DQB1*04:02, with respective frequencies of HF=0.03293 and HF=0.05612, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1134 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18. The results for DNA #1134 HLA-E, -F, -G, -H, and MICB data can be found below and on Table 28.

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB	
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	003:01/005:02/005:08/005:11/005:13/006/010	003:01/005:02/005:08/005:11/005:13/006/010
227	01:01:01	01:01:01	01:01:01	01:03:01	01:03:01	01:04:04	02:09	DEL	005:02	005:02
1686	01:01:01:--	01:01:01:--	01:01:01:11	01:03:01:03	01:03:01:02	01:04:04:01	02:09	DEL	005:02	005:02
4545	01:01	01:01	01:01	01:03	01:03	01:04	02:09	NP	005:02	005:02
9232	01:01:01	01:01:01	01:01:01	01:03:01	01:03:01	01:04:04	02:09	DEL	005:02	005:02



DNA Sample

#1131	#1134
#1132	#1135
#1133	#1136

DNA #1135 FILIPINO

HLA-A		HLA-B		HLA-C	
02:01	25:01	18:01	44:02	05:01	12:03
DRB1		DRB3/4/5		DQA1	
04:01	15:01	4*01:03	5*01:01	01:02	03:03
				DQB1	
				03:01	06:02
				DPA1	
				01:03	02:06
				DPB1	
				05:01	23:01

The likely class II associations in this cell are DRB1*04:01-DQB1*03:01 and DRB1*15:01-DQB1*06:02, with respective frequencies of HF=0.04912 and HF=0.14155, interestingly seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1135 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21. The results for DNA #1135 HLA-E, -F, -G, -H, and MICB data can be found below and on Table 29.

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB	
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	002:01/002:03/02:06	002:01/002:03/02:06
227	01:01:01	01:01:01	01:01:02	01:01:02	01:01:02	01:03:01	01:03:01	02:05:01	002:01	002:01
1686	01:01:01:--	01:01:01:--	01:01:02:--	01:01:02:08	01:01:02:01	01:03:01:02	01:03:01:01	02:05:01:01	002:01	002:01
4545	01:01	01:01	01:01	01:01	01:01	01:03	01:03	02:05	002:01	002:01
9232	01:01:01	01:01:01	01:01:02	01:01:02	01:01:02	01:03:01	01:03:01	02:05:01	002:01	002:01

**DNA Sample**

#1131	#1134
#1132	#1135
#1133	#1136

DNA #1136 NATIVE AMERICAN

HLA-A	HLA-B	HLA-C			
03:01	07:02 27:05	02:02 07:02			
DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
15:01	5*01:01	01:02	06:02	01:03	04:01

The likely class I associations in this cell are A*03:01-B*27:05-C*02:02 and A*03:01-B*07:02-C*07:02, with respective frequencies of HF=0.00142 and HF=0.05993, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1136 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24. The results for DNA #1136 HLA-E, -F, -G, -H, and MICB data can be found below and on Table 30.

CENTER	HLA-E	HLA-F	HLA-G	HLA-H	MICB
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	004:01/028 009:01N
227	01:01:01	01:03:02	01:01:01 01:03:01	01:01:01 01:03:01	02:04:01 02:09 004:01 009:01N
1686	01:01:01:--	01:03:02:--	01:01:01:11 01:03:01:--	01:01:01:05 01:03:01:02	02:04:01 02:09 004:01 009:01N
4545	01:01	01:03	01:01 01:03	01:01 01:03	02:04 02:09 004:01 009:01N
9232	01:01:01	01:03:02	01:01:01 01:03:01	01:01:01 01:03:01	02:04:01 02:09 004:01 009:01N

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Table 1. Summary of the 185th DNA Exchange (DNA #1131)

A				B				C			
74 labs High / 61 labs Low		% (n)		74 labs High / 61 labs Low		% (n)		74 labs High / 58 labs Low		% (n)	
A*02:01:01:01		5 (4)		A*02:06:01:01		3 (2)		B*40:01:02		60(44)	
A*02:01:01		57(42)		A*02:06:01		58(43)		B*40:01:01G		3 (2)	
A*02:01:01G		3 (2)		A*02:06:01G		3 (2)		B*40:01P		3 (2)	
A*02:01P		1 (1)		A*02:06P		3 (2)		B*40:01		35(26)	
A*02:01		34(25)		A*02:06		34(25)		B*40(60)		59(36)	
A*02		100(61)		A*02		100(59)		B*40(61)		2 (1)	
								B*40		38(23)	
								B*42		2 (1)	
								B*35		2 (1)	

DRB1				DRB3/4/5				DQA1			
74 labs High / 60 labs Low		% (n)		54 labs High / 41 labs Low		% (n)		65 labs High / 53 labs Low		% (n)	
DRB1*04:03:01:01		51(38)		DRB1*08:03:02		46(34)		DRB4*01:03:01		39(21)	
DRB1*04:03:01		3 (2)		DRB1*08:03P		4 (3)		DRB4*01:01:01G		13(7)	
DRB1*04:03:01G		8 (6)		DRB1*08:03		50(37)		DRB4*01:01P		18(10)	
DRB1*04:03P		38(28)		DRB1*08		98(59)		DRB4*01:03		28(15)	
DRB1*04:03		98(59)		DRB1*13		2 (1)		DRB4*01:01		2 (1)	
DRB1*04		2 (1)						DRB4*01		88(36)	
								DRB4*PRESENT		12(5)	

DQB1				DPA1				DPB1			
77 labs High / 59 labs Low		% (n)		58 labs High / 39 labs Low		% (n)		71 labs High / 38 labs Low		% (n)	
DQB1*03:02:01:01		4 (3)		DQB1*06:01:01:01		4 (3)		DPA1*02:02:02		62(36)	
DQB1*03:02:01		43(33)		DQB1*06:01:01		43(33)		DPA1*02:02:02G		2 (1)	
DQB1*03:02:01G		5 (4)		DQB1*06:01:01G		5 (4)		DPA1*02:02P		7 (4)	
DQB1*03:02P		8 (6)		DQB1*06:01P		8 (6)		DPA1*02:02		29(17)	
DQB1*03:02		40(31)		DQB1*06:01		39(30)		DPA1*02		100(39)	
DQB1*03(DQ8)		63(37)		DQB1*06		100(59)					
DQB1*03		36(21)									
DQB1*05		2 (1)									

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

Table 2. Summary of the 185th DNA Exchange (DNA #1132)

A				B				C			
73 labs High / 61 labs Low		% (n)		73 labs High / 60 labs Low		% (n)		73 labs High / 56 labs Low		% (n)	
A*26:01:01:01	4 (3)	A*30:01:01:01	12(9)	B*13:02:01:01	3 (2)	B*38:01:01	60(44)	C*06:02:01:01	3 (2)	C*12:03:01:01	4 (3)
A*26:01:01	56(41)	A*30:01:01	48(35)	B*13:02:01	58(42)	B*38:01:01G	3 (2)	C*06:02:01	53(39)	C*12:03:01	54(39)
A*26:01:01G	4 (3)	A*30:01:01G	3 (2)	B*13:02:01G	3 (2)	B*38:01P	3 (2)	C*06:02:01G	3 (2)	C*12:03:01G	3 (2)
A*26:01P	1 (1)	A*30:01P	3 (2)	B*13:02P	3 (2)	B*38:01	34(25)	C*06:02P	3 (2)	C*12:03P	1 (1)
A*26:01	34(25)	A*30:01	34(25)	B*13:02	34(25)	B*38	98(59)	C*06:02	38(28)	C*12:03	38(28)
A*26	100(61)	A*30	100(61)	B*13	98(59)	B*55	2 (1)	C*06	100(56)	C*12	100(56)
				B*40	2 (1)						
DRB1				DRB3/4/5				DQA1			
73 labs High / 59 labs Low		% (n)		53 labs High / 40 labs Low		66 labs High / 52 labs Low		% (n)			
DRB1*07:01:01:01	1 (1)			DRB4*01:01:01:01	2 (1)	DRB4*01:03:01	37(19)	DQA1*02:01:01	59(39)		
DRB1*07:01:01	48(35)			DRB4*01:01:01	34(18)	DRB4*01:01:01G	12(6)	DQA1*02:01:01G	3 (2)		
DRB1*07:01:01G	10(7)			DRB4*01:01:01G	17(9)	DRB4*01:01P	22(11)	DQA1*02:01	38(25)		
DRB1*07:01P	5 (4)			DRB4*01:01P	17(9)	DRB4*01:03	25(13)	DQA1*02	98(51)		
DRB1*07:01	36(26)			DRB4*01:01	30(16)	DRB4*01:01	4 (2)	DQA1*01	2 (1)		
DRB1*07	98(58)			DRB4*01	85(34)	DRB4*01	87(34)				
DRB1*04	2 (1)			DRB4*PRESENT	15(6)	DRB4*PRESENT	13(5)				
DQB1				DPA1				DPB1			
76 labs High / 58 labs Low		% (n)		57 labs High / 37 labs Low		69 labs High / 36 labs Low		% (n)			
DQB1*02:02:01	47(36)			DPA1*02:01:01:01	7 (4)			DPB1*11:01:01	54(37)	DPB1*17:01:01	54(37)
DQB1*02:01:01G	5 (4)			DPA1*02:01:01	60(34)			DPB1*11:01:01G	13(9)	DPB1*17:01:01G	13(9)
DQB1*02:01P	4 (3)			DPA1*02:01:01G	4 (2)			DPB1*11:01P	7 (5)	DPB1*17:01P	7 (5)
DQB1*02:02	42(32)			DPA1*02:01	30(17)			DPB1*11:01	26(18)	DPB1*17:01	26(18)
DQB1*02:01	1 (1)			DPA1*02	100(37)			DPB1*11	100(36)	DPB1*17	100(36)
DQB1*02	98(57)										
DQB1*03	2 (1)										

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

Table 3. Summary of the 185th DNA Exchange (DNA #1133)

A				B				C			
73 labs High / 60 labs Low		% (n)		73 labs High / 59 labs Low		% (n)		73 labs High / 56 labs Low		% (n)	
A*24:02:01:01	3 (2)	A*68:03:01:01	10(7)	B*39:05:01:01	7 (5)	B*40:01:02	57(42)	C*03:04:01:01	4 (3)	C*07:02:01:01	3 (2)
A*24:02:01	56(41)	A*68:03:01	49(36)	B*39:05:01	51(37)	B*40:01:01G	4 (3)	C*03:04:01	56(41)	C*07:02:01	56(41)
A*24:02:01G	3 (2)	A*68:03:01G	1 (1)	B*39:05:01G	4 (3)	B*40:01P	3 (2)	C*03:04:01G	3 (2)	C*07:02:01G	3 (2)
A*24:02P	3 (2)	A*68:03P	3 (2)	B*39:05P	3 (2)	B*40:01	36(26)	C*03:04P	1 (1)	C*07:02P	3 (2)
A*24:02	36(26)	A*68:01P	1 (1)	B*39:05	34(25)	B*40(B60)	61(36)	C*03:04	36(26)	C*07:02	36(26)
A*24	100(60)	A*68:03	36(26)	B*39:01	1 (1)	B*40	39(23)	C*03(Cw10)	55(31)	C*07	100(56)
		A*68	100(60)	B*39	100(59)			C*03	43(24)		
								C*12	2 (1)		
DRB1				DRB3/4/5				DQA1			
72 labs High / 58 labs Low		% (n)		52 labs High / 41 labs Low		% (n)		66 labs High / 52 labs Low		% (n)	
DRB1*01:01:01	42(30)	DRB1*04:07:01	51(37)	DRB4*01:03:02	61(32)			DQA1*01:01:01	58(38)	DQA1*03:01:01:01	5 (3)
DRB1*01:01:01G	10(7)	DRB1*04:07:01G	3 (2)	DRB4*01:01P	8 (4)			DQA1*01:01:01G	3 (2)	DQA1*03:01:01	53(35)
DRB1*01:01P	8 (6)	DRB1*04:07P	7 (5)	DRB4*01:03	29(15)			DQA1*01:01P	2 (1)	DQA1*03:01:01G	3 (2)
DRB1*01:01	40(29)	DRB1*04:08P	1 (1)	DRB4*01:01	2 (1)			DQA1*01:01	38(25)	DQA1*03:01P	2 (1)
DRB1*01	98(57)	DRB1*04:07	37(27)	DRB4*01	83(34)			DQA1*01	100(52)	DQA1*03:01	38(25)
DRB1*08	2 (1)	DRB1*04	100(58)	DRB4*PRESENT	17(7)					DQA1*03	100(52)
DQB1				DPA1				DPB1			
70 labs High / 56 labs Low		% (n)		57 labs High / 36 labs Low		% (n)		68 labs High / 36 labs Low		% (n)	
DQB1*03:02:01:01	3 (2)	DQB1*05:01:01:01	1 (1)	DPA1*02:02:02	60(34)			DPB1*01:01:01	34(23)	DPB1*13:01:01	34(23)
DQB1*03:02:01	43(33)	DQB1*05:01:01	49(37)	DPA1*02:02:02G	2 (1)			DPB1*01:01:01G	16(11)	DPB1*13:01:01G	16(11)
DQB1*03:02:01G	5 (4)	DQB1*05:01:01G	8 (6)	DPA1*02:02P	7 (4)			DPB1*01:01P	19(13)	DPB1*13:01P	19(13)
DQB1*03:02P	8 (6)	DQB1*05:01P	4 (3)	DPA1*02:02	32(18)			DPB1*01:01	31(21)	DPB1*13:01	31(21)
DQB1*03:02	41(31)	DQB1*05:01	37(28)	DPA1*02	100(36)			DPB1*01	100(36)	DPB1*13	100(36)
DQB1*03(DQ8)	66(35)	DQB1*05	98(56)								
DQB1*03	39(22)	DQB1*06	2 (1)								

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

Table 4. Summary of the 185th DNA Exchange (DNA #1134)

A				B				C			
74 labs High / 57 labs Low		% (n)		74 labs High / 57 labs Low		% (n)		74 labs High / 54 labs Low		% (n)	
A*02:06:01:01	1 (1)	A*33:01:01:01	11(8)	B*14:02:01:01	57(42)	B*15:30:01:02	7 (5)	C*01:02:01:01	3 (2)	C*08:02:01:01	3 (2)
A*02:06:01	58(43)	A*33:01:01	49(36)	B*14:02:01G	5 (4)	B*15:30:01	53(39)	C*01:02:01	55(41)	C*08:02:01	55(41)
A*02:06:01G	3 (2)	A*33:01:01G	3 (2)	B*14:02P	3 (2)	B*15:30	41(30)	C*01:02:01G	4 (3)	C*08:02:01G	3 (2)
A*02:06P	3 (2)	A*33:01P	3 (2)	B*14:02	35(26)	B*15(B62)	65(37)	C*01:02P	3 (2)	C*08:02P	3 (2)
A*02:06	35(26)	A*33:01	35(26)	B*14(B65)	67(38)	B*15(B70)	2 (1)	C*01:02	35(26)	C*08:02	37(27)
A*02	98(56)	A*33	95(54)	B*14	32(18)	B*15	32(18)	C*01	98(53)	C*08	98(53)
A*24	2 (1)	A*02	2 (1)	B*39	2 (1)	B*40	2 (1)	C*03	2 (1)	C*07	2 (1)
		A*23	2 (1)								
		A*68	2 (1)								

DRB1				DRB3/4/5				DQA1			
73 labs High / 57 labs Low		% (n)						63 labs High / 50 labs Low		% (n)	
DRB1*01:02:01	58(42)	DRB1*08:02:01	52(38)					DQA1*01:01:02	60(38)	DQA1*04:01:01	60(38)
DRB1*01:02P	5 (4)	DRB1*08:02:01G	1 (1)					DQA1*01:01:01G	3 (2)	DQA1*04:01:01G	3 (2)
DRB1*01:02	37(27)	DRB1*08:02P	4 (3)					DQA1*01:01P	2 (1)	DQA1*04:01P	3 (2)
DRB1*01	100(57)	DRB1*08:02	41(30)					DQA1*01:01	35(22)	DQA1*04:01	33 (21)
		DRB1*08:04	1 (1)					DQA1*01	100(50)	DQA1*04	96(48)
		DRB1*08	98(56)							DQA1*06	2 (1)
		DRB1*04	2 (1)							DQA1*03	2 (1)

DQB1				DPA1				DPB1			
75 labs High / 56 labs Low		% (n)		56 labs High / 39 labs Low		% (n)		71 labs High / 39 labs Low		% (n)	
DQB1*04:02:01:04	3 (2)	DQB1*05:01:01:01	4 (3)	DPA1*01:03:01	62(35)			DPB1*02:01:02	27(19)	DPB1*04:02:01:01	1 (1)
DQB1*04:02:01	44(33)	DQB1*05:01:01	44(33)	DPA1*01:03:01G	4 (2)			DPB1*02:01:02G	27(19)	DPB1*04:02:01	27(19)
DQB1*04:02:01G	7 (5)	DQB1*05:01:01G	7 (5)	DPA1*01:03P	4 (2)			DPB1*02:01P	19(13)	DPB1*04:02:01G	28(20)
DQB1*04:02P	8 (6)	DQB1*05:01P	7 (5)	DPA1*01:03	30(17)			DPB1*02:01	27(19)	DPB1*04:02P	24(17)
DQB1*04:02	39(29)	DQB1*05:01	39(29)	DPA1*01	100(39)			DPB1*02(DP201)	100(39)	DPB1*04:02	29(14)
DQB1*04	98(55)	DQB1*05	100(56)							DPB1*04(DP402)	100(38)
DQB1*03	2 (1)										

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

Table 5. Summary of the 185th DNA Exchange (DNA #1135)

A				B				C			
77 labs High / 54 labs Low		% (n)		77 labs High / 54 labs Low		% (n)		77 labs High / 50 labs Low		% (n)	
A*02:01:01:01	4 (3)	A*25:01:01:01	12(9)	B*18:01:01:01	1 (1)	B*44:02:01:01	4 (3)	C*05:01:01:02	3 (2)	C*12:03:01:01	4 (3)
A*02:01:01	53(41)	A*25:01:01	45(35)	B*18:01:01	56(43)	B*44:02:01	52(40)	C*05:01:01	53(41)	C*12:03:01	53(41)
A*02:01:01G	5 (4)	A*25:01:01G	4 (3)	B*18:01:01G	5 (4)	B*44:02:01G	6 (5)	C*05:01:01G	5 (4)	C*12:03:01G	5 (4)
A*02:01P	1 (1)	A*25:01P	3 (2)	B*18:01P	1 (1)	B*44:02P	1 (1)	C*05:01P	3 (2)	C*12:03P	1 (1)
A*02:01	36(28)	A*25:01	36(28)	B*18:01	36(28)	B*44:02	36(28)	C*05:01	36(28)	C*12:03	36(28)
A*02	100(54)	A*25	98(53)	B*18	98(53)	B*44	98(53)	C*05	98(49)	C*12	98(49)
		A*33	2 (1)	B*14	2 (1)	B*15	2 (1)	C*01	2 (1)	C*08	2 (1)

DRB1				DRB3/4/5				DQA1			
76 labs High / 54 labs Low		% (n)		56 labs High / 36 labs Low		% (n)		65 labs High / 48 labs Low		% (n)	
DRB1*04:01:01	42(32)	DRB1*15:01:01:01	1 (1)	DRB4*01:03:01	36(20)	DRB5*01:01:01	39(22)	DQA1*01:02:01:01	1 (1)	DQA1*03:03:01	58(38)
DRB1*04:01:01G	11(8)	DRB1*15:01:01	46(35)	DRB4*01:01:01:01G	13(7)	DRB5*01:01:01:01G	14(8)	DQA1*01:02:01	59(38)	DQA1*03:01:01G	3 (2)
DRB1*04:01P	11(8)	DRB1*15:01:01G	8 (6)	DRB4*01:01P	20(11)	DRB5*01:01P	12(7)	DQA1*01:02:01G	3 (2)	DQA1*03:01P	1 (1)
DRB1*04:01	37(28)	DRB1*15:01P	8 (6)	DRB4*01:03	29(16)	DRB5*01:01	34(19)	DQA1*01:02	37(24)	DQA1*03:03	32(21)
DRB1*04	98(53)	DRB1*15:01	37(28)	DRB4*01:01	2 (1)	DRB5*01	89(31)	DQA1*01	100(48)	DQA1*03:01	3 (2)
DRB1*01	2 (1)	DRB1*15	96(52)	DRB4*01	89(32)	DRB5*PRESENT	11(4)			DQA1*03:02	1 (1)
		DRB1*08	2 (1)	DRB4*PRESENT	11(4)					DQA1*03	98(47)
		DRB1*04	2 (1)							DQA1*04	2 (1)

DQB1				DPA1				DPB1			
78 labs High / 53 labs Low		% (n)		58 labs High / 35 labs Low		% (n)		73 labs High / 35 labs Low		% (n)	
DQB1*03:01:01:01	1 (1)	DQB1*06:02:01	45(35)	DPA1*01:03:01:04	5 (3)	DPA1*02:02:02G	7 (4)	DPB1*05:01:01	48(35)	DPB1*23:01:01:01	6 (4)
DQB1*03:01:01	44(34)	DQB1*06:02:01G	9 (7)	DPA1*01:03:01	55(32)	DPA1*02:02P	2 (1)	DPB1*05:01:01G	12(9)	DPB1*23:01:01	37(27)
DQB1*03:01:01G	11(9)	DQB1*06:02P	8 (6)	DPA1*01:03:01G	3 (2)	DPA1*02:06	86(50)	DPB1*05:01P	8 (6)	DPB1*23:01:01G	10(7)
DQB1*03:01P	5 (4)	DQB1*06:02	38(30)	DPA1*01:03P	2 (1)	DPA1*02:02	3 (2)	DPB1*05:01	31(23)	DPB1*23:01	48(35)
DQB1*03:01	38(30)	DQB1*06	98(52)	DPA1*01:03	35(20)	DPA1*02:07	2 (1)	DPB1*05	100(35)	DPB1*23	100(35)
DQB1*03(DQ7)	64(34)	DQB1*05	2 (1)	DPA1*01	100(35)	DPA1*02	100(35)				
DQB1*03(DQ8)	2 (1)										
DQB1*03	32(17)										
DQB1*04	2 (1)										

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

Table 6. Summary of the 185th DNA Exchange (DNA #1136)

B						C					
75 labs High / 55 labs Low % (n)			75 labs High / 55 labs Low % (n)			75 labs High / 51 labs Low % (n)					
A*03:01:01:01	3 (2)		B*07:02:01	56(42)	B*27:05:02	56(42)	C*02:02:02:01	3 (2)	C*07:02:01:03	3 (2)	
A*03:01:01	53(40)		B*07:02:01G	5 (4)	B*27:05:02G	7 (5)	C*02:02:02	40(53)	C*07:02:01	53(40)	
A*03:01:01G	5 (4)		B*07:02P	3 (2)	B*27:05P	1 (1)	C*02:02:02G	5 (4)	C*07:02:01G	5 (4)	
A*03:01P	3 (2)		B*07:02	36(27)	B*27:05	35(26)	C*02:02P	3 (2)	C*07:02P	3 (2)	
A*03:01	36(27)		B*07	98(54)	B*27:03	1 (1)	C*02:02	36(27)	C*07:02	36(27)	
A*03	98(54)		B*18	2 (1)	B*27	98(54)	C*02	98(50)	C*07	98(50)	
A*02	2 (1)				B*44	2 (1)	C*05	2 (1)	C*12	2 (1)	
DRB1			DRB3/4/5			DQA1					
74 labs High / 55 labs Low % (n)			55 labs High / 36 labs Low % (n)			62 labs High / 48 labs Low % (n)					
DRB1*15:01:01:01	1 (1)		DRB5*01:01:01	38(21)		DQA1*01:02:01:01	2 (1)				
DRB1*15:01:01	46(34)		DRB5*01:01:01G	14(8)		DQA1*01:02:01	56(35)				
DRB1*15:01:01G	8 (6)		DRB5*01:01P	13(7)		DQA1*01:02:01G	3 (2)				
DRB1*15:01P	7 (5)		DRB5*01:01	35(19)		DQA1*01:02	39(24)				
DRB1*15:01	38(28)		DRB5*01	86(31)		DQA1*01	98(47)				
DRB1*15	98(54)		DRB5*PRESENT	14(5)		DQA1*03	2 (1)				
DRB1*04	2 (1)										
DQB1			DPA1			DPB1					
76 labs High / 54 labs Low % (n)			58 labs High / 35 labs Low % (n)			71 labs High / 35 labs Low % (n)					
DQB1*06:02:01	43(33)		DPA1*01:03:01	59(34)		DPB1*04:01:01:01	1 (1)				
DQB1*06:02:01G	8 (6)		DPA1*01:03:01G	3 (2)		DPB1*04:01:01	47(33)				
DQB1*06:02P	9 (7)		DPA1*01:03P	2 (1)		DPB1*04:01:01G	11(8)				
DQB1*06:02	40(30)		DPA1*01:03	36(21)		DPB1*04:01P	7 (5)				
DQB1*06	98(53)		DPA1*01	100(35)		DPB1*04:01	34(24)				
DQB1*03	2 (1)					DPB1*04(DP401)	100(35)				

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

Table 7. Individual laboratory results for DNA # 1131 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:01:01G	NP	01:03:01	03:01:01	03:02:01G	06:01:01G	02:02:02	02:02:02	135:01:01	135:01:01
125	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	NT	NT	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
134	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03	4*01:03	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
138	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
144	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
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	02:01P	02:06P	40:01P	55:02P	04:01P	08:01P	04:03P	08:03P	NT	NT	NT	NT	03:02P	06:01P	NT	NT	05:01P	05:01P
176	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
185	02:01:01G	02:06:01G	40:01:01G	55:02:01G	04:01:01G	08:01:01G	04:03P	08:03P	4*01:01P	NP	01:03:01G	03:01:01G	03:02P	06:01P	NT	NT	05:01:01G	05:01:01G
188	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03	NT	NT	01:03:01	03:01:01:01	03:02:01:01	06:01:01:01	02:02:02	02:02:02	135:01:01	135:01:01
189	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
190	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03	4*01:01P	NP	01:03:01	03:01:01:01	03:02:01:01	06:01:01:01	02:02:02	02:02:02	135:01:01	135:01:01
192	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:01:01G	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
205	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01	135:01
213	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:01P	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
218	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	135:01	135:01
227	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
238	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03P	08:03	4*01:03	NP	01:03	03:01	03:02P	06:01P	NT	NT	135:01:01	135:01:01
239	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
240	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:01P	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
258	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03	08:03	4*01:03	NP	01:03:01	03:01:01:01	03:02	06:01	02:02	02:02	135:01:01	135:01:01
264	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01	135:01
265	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:01P	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
266	02:01:01	02:06:01	40:01	55:02	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03	NP	01:03:01	03:01:01	03:02	06:01	02:02:02	02:02:02	135:01	135:01
267	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
273	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	NT	NT	135:01:01	135:01:01
274	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
279	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
280	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
294	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:01P	NP	01:03	03:01	03:02	06:01	NT	NT	135:01	135:01
298	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:01P	4*01:01P	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:02	NT	NT	NT	NT	NT
307	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02:01	02:06	40:01	55:02	04:01P	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
321	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:01P	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
340	02:01:01	02:06:01	40:01:02	55:02:01	04:01P	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	05:01P	05:01P
343	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	NT	NT	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
345	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01	04:03	08:03	NT	NT	01:03:01	03:01:01	03:02	06:01	NT	NT	135:01	135:01
353	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
356	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
403	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01G	08:03	NT	NT	NT	NT	03:02:01G	06:01:01G	NT	NT	135:01:01	135:01:01
615	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
805	02:01	02:06	40:01	55:02	04:82	08:01	04:03P	08:03	4*01:01P	NP	01:03	03:01	03:02P	06:01P	02:02P	02:02P	135:01	135:01
1189	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
1647	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:01P	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
1686	02:01:01:01	02:06:01:01	40:01:02	55:02:01	04:82:01	08:01:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
2015	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03	NT	NT	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01

Table 7. Individual laboratory results for DNA # 1131 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2063	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	02:01:01	02:06:01	40:01:02	55:02:01	04:01:01G	08:01:01	04:03:01	08:03:02	4*01:01:01G	NT	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	NT	05:01:01G	NT
3410	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	135:01	135:01
3438	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:01:01G	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
3582	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
3614	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:01:01G	NP	01:03	03:01	03:02	06:01	02:02	02:02	05:01:01G	05:01:01G
3625	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
3849	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	NT	NT	NT	NT	01:03:01G	03:01:01G	03:02:01G	06:01:01G	02:02:02G	02:02:02G	NT	NT
4237	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03P	08:03	4*01:03	NP	01:03	03:01	03:02P	06:01P	02:02P	02:02P	135:01	135:01
4345	02:01:01:01	02:06P	40:01P	55:02P	04:82:01	08:01P	04:03P	08:03P	4*01:01:01G	NP	01:03:01:01	03:01P	03:02P	06:01P	02:02P	02:02P	05:01P	05:01P
4545	02:01:01G	02:06:01G	40:01:01G	55:02	04:82	08:01:01G	04:03:01G	08:03	NT	NT	NT	NT	03:02:01G	06:01:01G	NT	NT	135:01	135:01
4582	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
6051	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	05:01P	05:01P
9227	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	NT	NT	NT	NT	03:02:01	06:01:01	NT	NT	135:01:01	135:01:01
9228	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
9230	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03	08:03	4*01:03	NP	01:03:01	03:01:01:01	03:02	06:01	02:02	02:02	135:01:01	135:01:01
9231	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
9232	02:01:01:01	02:06:01:01	40:01:02	55:02:01	04:82:01	08:01:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
14982	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01:01	135:01:01
45852	02:01:01:01	02:06:01	40:01:02	55:02:01	04:01:01G	08:01:01	04:03:01	08:03:02	4*01:01:01G	NT	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	NT	05:01:01G	NT

Final Consensus based on High Resolution	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
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Table 8. Individual laboratory results for DNA # 1131 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	02:01	02:06	40:01	55:02	04:01:01C	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
193	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	135:01	135:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	NT	NT	NT	NT
288	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02P	02:02P	05:01P	05:01P
292	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
313	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
317	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:01	NP	01:03	03:01	03:02	06:01	02:02	02:07	05:01	05:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01	03:02	06:01	NT	NT	NT	NT
1251	02:01:01	02:06:01	40:01:02	55:02:01	04:82:01	08:01:01	04:03:01	08:03:02	4*01:03:01	NT	01:03:01	03:01:01:01	03:02:01:01	06:01:01:01	02:02:02	02:02:02	135:01:01	135:01:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	135:01	135:01
4420	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NP	01:03	03:01	03:02	06:01	02:02	02:02	05:01	05:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01:01G	NT
Final Consensus	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01

Table 9. Individual laboratory results for DNA # 1131 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
144	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
147	02	02	40	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	135	135
148	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
158	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
162	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
190	02	02	40(B60)	55	04	08	04	08	4*PRESENT	NP	NT	NT	03(DQ8)	06	NT	NT	NT	NT
192	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
199	02	NT	15	42	04	08	12	13	NT	NT	01	NT	05	06	NT	NT	NT	NT
205	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	135	135
213	02	02	40	55	04	08	04	08	NT	NT	01	03	03(DQ8)	06	02	02	05	05
215	NT	NT	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
227	02	02	40	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	135	135
228	02	02	40	55	04	08	04	08	4*PRESENT	NP	01	03	03	06	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
245	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
255	02	02	40(B60)	55	NT	NT	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	02	40	55	04	08	04	08	4*PRESENT	NP	01	03	03	06	NT	NT	NT	NT
265	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
266	02	02	40(B60)	55	04	08	04	08	NT	NT	01	03	03(DQ8)	06	02	02	05	05
267	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	135	135
273	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	NT	NT	05	05
274	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	NT	NT	NT	NT
279	02	02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
285	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
286	02	NT	40	55	04	08	04	08	4*01	NT	01	03	03	06	02	NT	05	NT
288	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
292	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
294	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	NT	NT	135	135
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
305	02	02	40(B60)	55	04	08	04	08	NT	NT	01	03	03(DQ8)	06	NT	NT	NT	NT
307	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
309	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
310	02	02	40(B60)	35	04	08	04	08	4*PRESENT	NP	NT	NT	03	06	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	02	40(B60)	55	04	08	04	08	NT	NT	01	03	03(DQ8)	06	02	02	05	05
334	02	02	40(B60)	55	04	08	04	08	NT	NT	01	03	03(DQ8)	06	02	02	05	05
336	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
340	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
345	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
346	02	02	40(B60)	55	NT	NT	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	02	40(B61)	55	NT	NT	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
355	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
358	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	NT	NT	NT	NT
519	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05

Table 9. Individual laboratory results for DNA # 1131 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
726	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
732	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
1189	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
1251	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	135	135
2347	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	NT	NT	NT	NT	NT	NT
3438	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
3600	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	NT	NT
3614	02	02	40(B60)	55	04	08	04	08	4*PRESENT	NP	01	03	03(DQ8)	06	02	02	05	05
3849	02	02	40(B60)	55	04	08	NT	NT	NT	NT	01	03	03(DQ8)	06	02	02	NT	NT
4237	02	02	40	55	04	08	04	08	NT	NT	01	03	03(DQ8)	06	02	02	05	05
4420	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
4582	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
4585	02	02	40(B60)	55	04	08	04	08	4*01	NT	01	03	03(DQ8)	06	02	NT	05	NT
8050	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
8092	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	NT	135
9221	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	05	05
9227	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
9228	02	02	40(B60)	55	04	08	04	08	4*01	NP	01	03	03(DQ8)	06	02	02	135	135
Final Consensus	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	NG	NG

Table 10. Individual laboratory results for DNA # 1132 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	26:01:01	30:01:01	13:02:01	38:01:01	06:02	12:03	07:01:01G	07:01:01G	4*01:01:01G	4*01:01:01G	02:01:01	02:01:01	02:01:01G	02:01:01G	02:01:01	02:01:01	11:01:01	17:01:01
125	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	NT	NT	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
134	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01	4*01:03	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
138	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
144	26:01:01	30:01:01	13:02:01	38:01:01	06:02	12:03	07:01:01	07:01:01	4*01:01P	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
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	26:01P	30:01P	13:02P	38:01P	06:02P	12:03P	07:01:01G	07:01:01G	NT	NT	NT	NT	02:01P	02:01P	NT	NT	11:01P	17:01P
176	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
185	26:01:01G	30:01:01G	13:02:01G	38:01:01G	06:02:01G	12:03:01G	07:01P	07:01P	4*01:01P	4*01:01P	02:01:01G	02:01:01G	02:01P	02:01P	NT	NT	11:01:01G	17:01:01G
188	26:01:01	30:01:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	NT	NT	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01:01	02:01:01:03	11:01:01	17:01:01
189	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01:01G	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01:01G	17:01:01G
190	26:01:01	30:01:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01	4*01:01P	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01:01	02:01:01:03	11:01:01	17:01:01
192	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:01:01G	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
205	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
213	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01P	4*01:01P	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
218	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	NT	NT	02:02	02:02	NT	NT	11:01	17:01
227	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
238	26:01:01	30:01:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01P	07:01P	4*01:01	4*01:03	02:01	02:01	02:01P	02:01P	NT	NT	11:01:01	17:01:01
239	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
240	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01P	4*01:01P	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
258	26:01:01	30:01:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01	07:01	4*01:01:01	4*01:03	02:01:01	02:01:01	02:02	02:02	02:01:01	02:01:01:03	11:01:01	17:01:01
264	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
265	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01P	4*01:01P	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
266	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01	07:01	4*01:01	4*01:03	02:01:01	02:01:01	02:02	02:02	02:01:01	02:01:01	11:01:01	17:01:01
267	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
273	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01G	07:01:01G	4*01:01:01G	4*01:01:01G	02:01:01	02:01:01	02:02:01	02:02:01	NT	NT	11:01:01	17:01:01
274	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01G	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
279	26:01	30:01	13:02	38:01	06:02	12:03	07:01P	07:01P	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
280	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01P	17:01P
294	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:01P	02:01	02:01	02:02	02:02	NT	NT	11:01	17:01
298	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01P	4*01:01P	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	NT	02:02	NT	NT	NT	NT	NT
307	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
321	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01P	4*01:01P	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
340	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
343	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	NT	NT	02:01:01	02:01:01	02:02:01	02:01:01	02:01:01	02:01:01	11:01:01	17:01:01
345	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01	07:01	NT	NT	02:01:01	02:01:01	02:02	02:02	NT	NT	11:01:01	17:01:01
353	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
356	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	NT	NT	02:02	02:02	NT	NT	NT	NT
403	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01G	07:01:01G	NT	NT	NT	NT	02:01:01G	02:01:01G	NT	NT	11:01:01	17:01:01
615	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
805	26:01	30:01	13:02	38:01	06:02	12:03	07:01:01G	07:01:01G	4*01:01	4*01:01P	02:01	02:01	02:02	02:02	02:01:01G	02:01	11:01	17:01
1189	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
1647	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01P	4*01:01P	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
1686	26:01:01:01	30:01:01:01	13:02:01:01	38:01:01	06:02:01:01	12:03:01:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01G	17:01:01G
2015	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	NT	NT	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
2063	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01

Table 10. Individual laboratory results for DNA # 1132 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	NT	4*01:01:01G	NT	02:01:01	NT	02:02:01	NT	02:01:01	NT	11:01:01	17:01:01
3410	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	NT	NT	02:02	02:02	NT	NT	11:01	17:01
3438	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01G	4*01:01:01G	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
3582	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
3614	26:01	30:01	13:02	38:01	06:02	12:03	07:01:01G	07:01:01G	4*01:01:01G	4*01:01:01G	02:01	02:01	02:02	02:02	02:01	02:01	11:01:01G	17:01:01G
3625	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
3849	26:01:01:01	30:01:01:01	13:02:01	38:01:01	06:02:01	12:03:01	NT	NT	NT	NT	02:01:01G	02:01:01G	02:01:01G	02:01:01G	02:01:01G	02:01:01G	NT	NT
4237	26:01:01	30:01:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01P	07:01P	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01:01	17:01:01
4345	26:01:01G	30:01P	13:02P	38:01P	06:02P	12:03:01:01	07:01:01:01	07:01:01:01	4*01:01:01:01	4*01:01:01G	02:01	02:01	02:01	02:01	02:01:01:01	02:01:01:03	11:01P	17:01P
4545	26:01:01G	30:01:01G	13:02:01G	38:01:01G	06:02:01G	12:03:01G	07:01:01G	07:01:01G	NT	NT	NT	NT	02:01:01G	02:01:01G	NT	NT	11:01:01G	17:01:01G
4582	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01:01G	17:01:01G
6051	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01P	17:01P
9227	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	NT	NT	NT	NT	02:02:01	02:02:01	NT	NT	11:01:01	17:01:01
9228	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
9230	26:01:01	30:01:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01	07:01	4*01:01:01	4*01:03	02:01:01	02:01:01	02:02	02:02	02:01:01	02:01:01:03	11:01:01	17:01:01
9231	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01G	17:01:01G
9232	26:01:01:01	30:01:01:01	13:02:01:01	38:01:01	06:02:01:01	12:03:01:01	07:01:01	07:01:01	4*01:01:01	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01G	17:01:01G
14982	26:01:01	30:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01:01G	4*01:03:01	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01	02:01:01	11:01:01	17:01:01
45852	26:01:01	30:01:01	13:02:01	38:01:01	06:02	12:03	07:01:01	NT	4*01:01:01G	NT	02:01:01	NT	02:02:01	NT	02:01:01	NT	11:01:01G	17:01:01G
Final Consensus based on High Resolution	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01

Table 11. Individual laboratory results for DNA # 1132 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	NT	NT	02:02	02:02	NT	NT	NT	NT
193	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	NT	NT	02:02	02:02	NT	NT	11:01	17:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	07:01	07:01	NT	NT	02:01	02:01	02:02	02:02	NT	NT	NT	NT
288	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:01	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
292	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	NT	NT	02:02	02:02	NT	NT	NT	NT
313	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	NT	NT	02:02	02:02	NT	NT	NT	NT
317	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:01	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	02:01	02:02	02:02	NT	NT	NT	NT
1251	26:01:01	30:01:01:01	13:02:01	38:01:01	06:02:01	12:03:01	07:01:01	07:01:01	4*01:01P	4*01:01P	02:01:01	02:01:01	02:02:01	02:02:01	02:01:01:01	02:01:01:03	11:01:01	17:01:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11:01P	17:01P
4420	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	NT	NT	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	26:01	30:01	13:02	38:01	06:02	12:03	07:01	07:01	4*01:01	4*01:03	02:01	02:01	02:02	02:02	02:01	02:01	11:01	17:01

Table 12. Individual laboratory results for DNA # 1132 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
144	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
147	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
148	26	30	13	38	06	12	07	07	NT	NT	NT	NT	02	02	NT	NT	NT	NT
158	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
162	26	30	13	38	06	12	07	07	NT	NT	NT	NT	02	02	NT	NT	NT	NT
190	26	30	13	38	06	12	07	07	4*PRESENT	4*PRESENT	NT	NT	02	02	NT	NT	NT	NT
192	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
199	26	30	40	55	06	12	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
205	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
213	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	02	02	11	17
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
228	26	30	13	38	06	12	07	07	4*PRESENT	4*PRESENT	02	02	02	02	NT	NT	NT	NT
242	26	30	13	38	06	12	07	NT	4*PRESENT	NT	02	NT	02	NT	NT	NT	NT	NT
244	26	30	13	38	06	12	07	07	NT	NT	NT	NT	02	02	NT	NT	NT	NT
245	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
255	26	30	13	38	NT	NT	07	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	26	30	13	38	06	12	07	07	4*PRESENT	4*PRESENT	02	02	02	02	NT	NT	NT	NT
265	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
266	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	02	02	11	17
267	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
273	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	NT	NT	11	17
274	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	NT	NT	NT	NT
279	26	30	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
285	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	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	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
292	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	NT	NT	NT	NT
294	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	NT	NT	NT	NT
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
305	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	NT	NT	NT	NT
307	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	NT	NT	NT	NT
309	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
310	26	30	13	38	06	12	07	07	4*PRESENT	4*PRESENT	NT	NT	02	02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	02	02	11	17
334	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	02	02	11	17
336	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
340	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
345	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
346	26	30	13	38	NT	NT	07	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	26	30	13	38	NT	NT	07	15	NT	NT	02	02	02	02	NT	NT	NT	NT
355	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	NT	NT	NT	NT
358	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	NT	NT	NT	NT
519	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17

Table 12. Individual laboratory results for DNA # 1132 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
726	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
732	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
1189	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
1251	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
2347	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02	02	NT	NT	NT	NT	NT	NT
3438	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
3600	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	NT	NT
3614	26	30	13	38	06	12	07	07	4*PRESENT	4*PRESENT	02	02	02	02	02	02	11	17
3849	26	30	13	38	06	12	NT	NT	NT	NT	02	02	02	02	02	02	NT	NT
4237	26	30	13	38	06	12	07	07	NT	NT	02	02	02	02	02	02	11	17
4420	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
4582	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
8092	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
9221	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
9222	26	30	13	38	NT	NT	07	07	NT	NT	NT	NT	02	02	NT	NT	NT	NT
9225	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
9227	26	30	13	38	06	12	07	07	NT	NT	NT	NT	02	02	NT	NT	NT	NT
9228	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17
Final Consensus	26	30	13	38	06	12	07	07	4*01	4*01	02	02	02	02	02	02	11	17

Table 13. Individual laboratory results for DNA # 1133 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01G	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01G	05:01:01G	02:02:02	02:02:02	01:01:01G	13:01:01G
125	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	NT	NT	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
134	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01P	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01P	13:01P
138	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01P	13:01
144	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
147	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	24:02P	68:03P	39:05P	40:01P	03:04P	07:02P	01:01P	04:07P	NT	NT	NT	NT	03:02P	05:01:01G	NT	NT	01:01P	13:01P
176	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
185	24:02:01G	68:03:01G	39:05:01G	40:01:01G	03:04:01G	07:02:01G	01:01P	04:07P	4*01:01P	NP	01:01:01G	03:01:01G	03:02P	05:01P	NT	NT	01:01:01G	13:01:01G
188	24:02:01	68:03:01:01	39:05:01:01	40:01:02	03:04:01	07:02:01	NT	NT	NT	NT	01:01:01	03:01:01:01	03:02:01:01	05:01:01	02:02:02	02:02:02	01:01	13:01
189	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
190	24:02:01	68:03:01:01	39:05:01:01	40:01:02	03:04:01	07:02:01	01:01:01G	04:07:01	4*01:03:02	NP	01:01:01	03:01:01:01	03:02:01:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
192	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01G	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01G	13:01:01G
205	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
213	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:01P	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01P	13:01P
218	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	01:01	13:01
227	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
238	24:02:01	68:03:01:01	39:05:01:01	40:01:02	03:04:01	07:02:01	01:01P	04:07P	4*01:03	NP	01:01	03:01	03:02P	05:01P	NT	NT	01:01P	13:01P
239	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
240	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
258	24:02:01	68:03:01:01	39:05:01:01	40:01:02	03:04:01	07:02:01	01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01:01	03:02	05:01:01	02:02	02:02:02	01:01:01	13:01:01
264	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
265	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01P	13:01P
266	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01	04:07	4*01:03:02	NP	01:01:01	03:01:01	03:02	05:01	02:02	02:02	01:01	13:01
267	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01P	13:01P
273	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	NT	NT	01:01:01	13:01:01
274	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01G	13:01:01G
279	24:02	68:03	39:05	40:01	03:04	07:02	01:01P	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
280	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
294	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NP	01:01	03:01	03:02	05:01	NT	NT	01:01	13:01P
298	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:01P	4*01:01P	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01P	13:01P
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:02	NT	NT	NT	NT	NT
307	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	03:01	NT	NT	NT	NT	NT	NT
316	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
321	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01P	13:01P
340	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
343	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	NT	NT	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
345	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01	04:07:01	NT	NT	01:01:01	03:01:01	03:02	05:01:01	NT	NT	01:01:01	13:01:01
353	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
356	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	NT	NT
403	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01G	04:07:01G	NT	NT	NT	NT	03:02:01G	05:01:01G	NT	NT	01:01:01G	13:01:01G
615	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
805	24:02	68:03	39:05	40:01	03:04	07:02	01:01:01G	04:07P	4*01:03	NP	01:01	03:01	03:02P	05:01:01G	02:02P	02:02	01:01	13:01
1189	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
1647	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
1686	24:02:01:01	68:03:01:01	39:05:01:01	40:01:02	03:04:01:01	07:02:01:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
2015	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01P	04:07:01	NT	NT	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01P	13:01P

Table 13. Individual laboratory results for DNA # 1133 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2063	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	24:02:01	68:03:01	39:05:01G	40:01:01G	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NT	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	NT	01:01:01G	13:01:01G
3410	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	01:01	13:01
3438	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
3582	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
3614	24:02	68:03	39:05	40:01	03:04	07:02	01:01:01G	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01:01G	13:01:01G
3625	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NT	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
3849	24:02:01	68:03:01:01	39:05:01	40:01:02	03:04:01	07:02:01	NT	NT	NT	NT	01:01:01G	03:01:01G	03:02:01G	05:01:01G	02:02:02G	02:02:02G	NT	NT
4237	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01	04:07P	4*01:03	NP	01:01	03:01	03:02P	05:01P	02:02P	02:02P	01:01	13:01
4345	24:02P	68:03P	39:05P	40:01P	03:04:01:01	07:02P	01:01	04:08P	4*01:01P	NP	01:01P	03:01P	03:02P	05:01:01:01	02:02P	02:02P	01:01P	13:01P
4545	24:02:01G	68:03	39:05:01G	40:01:01G	03:04:01G	07:02:01G	01:01:01G	04:07:01G	NT	NT	NT	NT	03:02:01G	05:01:01G	NT	NT	01:01:01G	13:01:01G
4582	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
6051	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01P	13:01P
9227	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	NT	NT	NT	NT	03:02:01	05:01:01	NT	NT	01:01:01	13:01:01
9228	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
9230	24:02:01	68:03:01:01	39:05:01:01	40:01:02	03:04:01	07:02:01	01:01	04:07:01	4*01:03	NP	01:01:01	03:01:01:01	03:02	05:01:01	02:02	02:02:02	01:01:01	13:01
9231	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01G	13:01:01G
9232	24:02:01:01	68:03:01:01	39:05:01	40:01:02	03:04:01:01	07:02:01:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01	13:01:01
14982	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	02:02:02	01:01:01G	13:01:01G
45852	24:02:01	68:03:01	39:05:01	40:01:02	03:04:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NT	01:01:01	03:01:01	03:02:01	05:01:01	02:02:02	NT	01:01:01G	13:01:01G

Final Consensus based on High Resolution	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
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Table 14. Individual laboratory results for DNA # 1133 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	NT	NT
193	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	03:01	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	01:01	04:07	NT	NT	01:01	03:01	03:02	05:01	NT	NT	NT	NT
288	24:02	68:01P	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02P	02:02P	01:01	13:01
292	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	NT	NT
313	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	NT	NT
317	24:02	68:03	39:01	40:01	03:04	07:02	01:01	04:07	4*01:01	NP	01:01	03:01	03:02	05:01	02:02	02:07	01:01	13:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	03:01	03:02	05:01	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	13:01P
4420	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	NT	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	24:02	68:03	39:05	40:01	03:04	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	02:02	02:02	01:01	13:01

Table 15. Individual laboratory results for DNA # 1133 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	NT	NT	01	13
144	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	24	68	39	40	03	07	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
158	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
162	24	68	39	40	03	07	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
190	24	68	39	40(B60)	03(Cw10)	07	01	04	4*PRESENT	NP	NT	NT	03(DQ8)	05	NT	NT	NT	NT
192	24	68	39	40	03	07	01	04	4*01	NP	01	03	03	05	02	02	01	13
199	24	68	39	40	12	07	08	04	NT	NT	01	03	03	06	NT	NT	NT	NT
205	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
213	24	68	39	40	03	07	01	04	NT	NT	01	03	03(DQ8)	05	02	02	01	13
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	24	68	39	40	03	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
228	24	68	39	40	03	07	01	04	4*PRESENT	NP	01	03	03	05	NT	NT	NT	NT
242	24	68	39	40	03	07	01	04	4*PRESENT	NT	01	03	03	05	NT	NT	NT	NT
244	24	68	39	40	03	07	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
245	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
255	24	68	39	40(B60)	NT	NT	01	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	24	68	39	40	03	07	01	04	4*PRESENT	NP	01	03	03	05	NT	NT	NT	NT
265	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
266	24	68	39	40(B60)	03	07	01	04	NT	NT	01	03	03(DQ8)	05	02	02	01	13
267	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
273	24	68	39	40	03	07	01	04	4*01	NP	01	03	03	05	NT	NT	01	13
274	24	68	39	40(B60)	03	07	01	04	4*01	NP	01	03	03(DQ8)	05	NT	NT	NT	NT
279	24	68	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
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	68	39	40	03	07	01	04	4*01	NP	01	03	03	05	02	02	01	13
292	24	68	39	40	03	07	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
294	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	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	68	39	40(B60)	03(Cw10)	07	01	04	NT	NT	01	03	03(DQ8)	05	NT	NT	NT	NT
307	24	68	39	40	03	07	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
309	24	68	39	40	03	07	01	04	4*01	NP	01	03	03	05	02	02	01	13
310	24	68	39	40(B60)	03	07	01	04	4*PRESENT	NP	NT	NT	03	05	NT	NT	NT	NT
311	24	68	39	40	03	07	01	04	4*PRESENT	NP	01	03	03	05	NT	NT	NT	NT
318	24	68	39	40(B60)	03	07	01	04	NT	NT	01	03	03(DQ8)	05	02	02	01	13
334	24	68	39	40(B60)	03(Cw10)	07	01	04	NT	NT	01	03	03(DQ8)	05	02	02	01	13
336	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
340	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
345	24	68	39	40	03	07	01	04	4*01	NP	01	03	03	05	02	02	01	13
346	24	68	39	40(B60)	NT	NT	01	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	24	68	39	40	NT	NT	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
355	24	68	39	40	03(Cw10)	07	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
358	24	68	39	40	03	07	01	04	4*01	NP	01	03	03	05	NT	NT	NT	NT
519	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13

Table 15. Individual laboratory results for DNA # 1133 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
726	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
732	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
1189	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
1251	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
2347	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	NT	NT	NT	NT	NT	NT
3438	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
3600	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	NT	NT
3614	24	68	39	40(B60)	03(Cw10)	07	01	04	4*PRESENT	NP	01	03	03(DQ8)	05	02	02	01	13
3849	24	68	39	40(B60)	03(Cw10)	07	NT	NT	NT	NT	01	03	03(DQ8)	05	02	02	NT	NT
4237	24	68	39	40	03(Cw10)	07	01	04	NT	NT	01	03	03(DQ8)	05	02	02	01	13
4420	24	68	39	40(B60)	03	07	01	04	4*01	NP	01	03	03	05	02	02	01	13
4582	24	68	39	40	03	07	01	04	4*01	NP	01	03	03	05	02	02	01	13
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
8092	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
9221	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
9227	24	68	39	40	03	07	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
9228	24	68	39	40(B60)	03(Cw10)	07	01	04	4*01	NP	01	03	03(DQ8)	05	02	02	01	13
Final Consensus	24	68	39	40	03	07	01	04	4*01	NP	01	03	03	05	02	02	01	13

Table 16. Individual laboratory results for DNA # 1134 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01G	05:01:01G	01:03:01	01:03:01	02:01:02G	04:02:01G
125	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NT	NT	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
134	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01P	04:02P
138	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01P	04:02P
144	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01P	04:02P
147	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01P	04:02P
148	02:06:01	33:01:01:01	14:02:01G	15:30:01	01:02:01G	08:02:01G	01:02:01	08:02:01G	NT	NT	NT	NT	04:02:01G	05:01:01G	NT	NT	02:01:02G	04:02:01G
158	02:06P	33:01P	14:02P	15:30	01:02P	08:02P	01:02P	08:02P	NT	NT	NT	NT	04:02P	05:01P	NT	NT	02:01P	04:02P
176	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	01:01	04:01	04:02	05:01	01:03	01:03	02:01:02G	04:02:01G
185	02:06:01G	33:01:01G	14:02:01G	15:30:01	01:02:01G	08:02:01G	01:02P	08:02P	NP	NP	01:01:01G	04:01:01G	04:02P	05:01P	NT	NT	02:01:02G	04:02:01G
188	02:06:01	33:01:01:01	14:02:01	15:30:01:02	01:02:01	08:02:01	01:02:01	08:02:01	NT	NT	01:01:02	04:01:01	04:02:01:04	05:01:01:01	01:03:01	01:03:01	02:01:02	04:02:01
189	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01:02G	04:02:01G
190	02:06:01	33:01:01:01	14:02:01	15:30:01:02	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01:04	05:01:01:01	01:03:01	01:03:01	02:01:02	04:02:01
192	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02G	04:02:01G
205	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
213	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01P	04:02P
218	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	NT	NT	04:02	05:01	NT	NT	02:01	04:02
227	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
238	02:06:01	33:01:01:01	14:02:01	15:30:01:02	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01	04:01	04:02P	05:01P	NT	NT	02:01P	04:02P
239	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
240	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
258	02:06:01	33:01:01:01	14:02:01	15:30:01:02	01:02:01	08:02:01	01:02:01	08:02	NP	NP	01:01:02	04:01:01	04:02	05:01	01:03	01:03:01	02:01:02	04:02:01
264	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02G	04:02:01G
265	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01P	04:02P
266	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02	05:01	01:03:01	01:03:01	02:01	04:02
267	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01	04:02P
273	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	NT	NT	02:01:02	04:02:01
274	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02G	04:02:01G
279	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	01:01	04:01	04:02	05:01	NT	NT	02:01	04:02
280	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01P	04:02P
294	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	NT	NT	02:01	04:02P
298	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01P	04:02P
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
307	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
321	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01	04:02P
340	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
343	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NT	NT	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
345	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02	NT	NT	01:01:02	04:01:01	04:02	05:01	NT	NT	02:01:02	04:02:01
353	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
356	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:04	NT	NT	NT	NT	04:02	05:01	NT	NT	NT	NT
403	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02	NT	NT	NT	NT	04:02:01G	05:01:01G	NT	NT	02:01:02G	04:02:01G
615	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
805	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02P	05:01P	01:03:01G	01:03:01G	02:01	04:02
1189	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
1647	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
1686	02:06:01:01	33:01:01:01	14:02:01	15:30:01	01:02:01:01	08:02:01:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02G	04:02:01G
2015	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NT	NT	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01P	04:02P
2063	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01

Table 16. Individual laboratory results for DNA # 1134 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2862	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	NT	02:01:02G	04:02:01G
3410	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	NT	NT	04:02	05:01	NT	NT	02:01	04:02
3438	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
3582	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
3614	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01:02G	04:02:01G
3625	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
3849	02:06:01	33:01:01:01	14:02:01	15:30:01:02	01:02:01	08:02:01	NT	NT	NT	NT	01:01:01G	04:01:01G	04:02:01G	05:01:01G	01:03:01G	01:03:01G	NT	NT
4237	02:06:01	33:01:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02	08:02	NP	NP	01:01	04:01P	04:02P	05:01P	01:03P	01:03P	02:01	04:02P
4345	02:06P	33:01P	14:02P	15:30	01:02P	08:02P	01:02P	08:02P	NP	NP	01:01P	04:01P	04:02P	05:01:01:01	01:03P	01:03P	02:01	04:02:01:01
4545	02:06:01G	33:01:01G	14:02:01G	15:30	01:02:01G	08:02	01:02P	08:02	NT	NT	NT	NT	04:02:01G	05:01:01G	NT	NT	02:01:02G	04:02:01G
4582	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01:02G	04:02:01G
6051	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02	04:02:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01P	04:02P
9227	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NT	NT	NT	NT	04:02:01	05:01:01	NT	NT	02:01:02	04:02:01
9228	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
9230	02:06:01	33:01:01:01	14:02:01	15:30:01:02	01:02:01	08:02:01	01:02:01	08:02	NP	NP	01:01:02	04:01:01	04:02	05:01	01:03	01:03:01	02:01:02	04:02:01
9231	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02G	04:02:01G
9232	02:06:01	33:01:01	14:02:01	15:30	01:02:01:01	08:02:01:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02G	04:02:01G
14982	02:06:01	33:01:01	14:02:01	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	01:03:01	02:01:02G	04:02:01G
45852	02:06:01	33:01:01	14:02:01G	15:30:01	01:02:01	08:02:01	01:02:01	08:02:01	NP	NP	01:01:02	04:01:01	04:02:01	05:01:01	01:03:01	NT	02:01:02G	04:02:01G
Final Consensus based on High Resolution	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02

Table 17. Individual laboratory results for DNA # 1133 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	NT	NT	04:02	05:01	NT	NT	NT	NT
193	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	NT	NT	04:02	05:01	NT	NT	02:01:02G	04:02:01G
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
292	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	NT	NT	04:02	05:01	NT	NT	NT	NT
313	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NT	NT	NT	NT	04:02	05:01	NT	NT	NT	NT
317	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	04:01	04:02	05:01	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	04:02P
4420	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02:01G
Final Consensus	02:06	33:01	14:02	15:30	01:02	08:02	01:02	08:02	NP	NP	01:01	04:01	04:02	05:01	01:03	01:03	02:01	04:02

Table 18. Individual laboratory results for DNA # 1134 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
144	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
162	02	33	14	15	01	08	01	08	NT	NT	NT	NT	04	05	NT	NT	NT	NT
190	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	NT	NT	04	05	NT	NT	NT	NT
192	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
199	24	68	39	40	03	07	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
205	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
213	02	33	14(B65)	15(B62)	01	08	01	08	NT	NT	01	04	04	05	01	01	02(DP201)	04(DP402)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
228	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	02	33	14	15	01	08	01	08	NT	NT	NT	NT	04	05	NT	NT	NT	NT
245	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
255	02	33	14(B65)	15(B62)	NT	NT	01	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
266	02	33	14	15	01	08	01	08	NT	NT	01	04	04	05	01	01	02(DP201)	04(DP402)
267	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
273	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	NT	NT	02(DP201)	04(DP402)
274	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	NT	NT	NT	NT
279	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
280	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	NT	02(DP201)	04(DP402)
288	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
292	02	33	14	15	01	08	01	08	NT	NT	01	04	04	05	NT	NT	NT	NT
294	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	NT	NT	04	05	NT	NT	02(DP201)	04(DP402)
300	NT	NT	NT	NT	NT	NT	01	08	NT	NT	NT	NT	04	05	NT	NT	NT	NT
305	02	23	14(B65)	15(B62)	01	08	01	08	NT	NT	01	04	04	05	NT	NT	NT	NT
307	02	33	14	15	01	08	01	08	NT	NT	01	04	04	05	NT	NT	NT	NT
309	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
310	02	02	14(B65)	15(B70)	01	08	01	08	NP	NP	NT	NT	04	05	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	33	14(B65)	15(B62)	01	08	01	08	NT	NT	01	04	04	05	01	01	02(DP201)	04(DP402)
334	02	33	14(B65)	15(B62)	01	08	01	08	NT	NT	01	04	04	05	01	01	02(DP201)	04(DP402)
336	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
340	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
345	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
346	02	33	14(B65)	15(B62)	NT	NT	01	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	33	14	15	NT	NT	01	08	NT	NT	01	06	04	05	NT	NT	NT	NT
355	02	33	14(B65)	15(B62)	01	08	01	08	NT	NT	01	04	04	05	NT	NT	NT	NT
358	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	NT	NT	NT	NT
519	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)

Table 18. Individual laboratory results for DNA # 1134 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
726	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
732	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
1189	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
1251	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
2347	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	04	NT	NT	NT	NT	NT	NT
3438	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
3600	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	NT	NT
3614	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
3849	02	33	14(B65)	15(B62)	01	08	NT	NT	NT	NT	01	04	04	05	01	01	NT	NT
4237	02	33	14(B65)	15(B62)	01	08	01	08	NT	NT	01	04	04	05	01	01	02(DP201)	04(DP402)
4420	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
4582	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
4585	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	NT	02(DP201)	04(DP402)
8050	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
8092	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	NT
9221	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
9227	02	33	14	15	01	08	01	08	NT	NT	NT	NT	04	05	NT	NT	NT	NT
9228	02	33	14(B65)	15(B62)	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)
Final Consensus	02	33	14	15	01	08	01	08	NP	NP	01	04	04	05	01	01	02(DP201)	04(DP402)

Table 19. Individual laboratory results for DNA # 1135 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01G	15:01:01G	4*01:01:01G	5*01:01:01G	01:02:01	03:03:01	03:01:01G	06:02:01G	01:03:01	02:06	05:01:01G	23:01:01
125	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	NT	NT	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
134	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01P	15:01:01	4*01:01P	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01G
138	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
144	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
147	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
148	02:01:01G	25:01:01:01	18:01:01G	44:02:01G	05:01:01G	12:03:01G	04:01:01G	15:01:01G	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	05:01:01G	23:01:01
158	02:01P	25:01P	18:01P	44:02P	05:01P	12:03P	04:01:01G	15:01P	NT	NT	NT	NT	03:01:01G	06:02P	NT	NT	05:01P	23:01
176	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
185	02:01:01G	25:01:01G	18:01:01G	44:02:01G	05:01:01G	12:03:01G	04:01P	15:01P	4*01:01P	5*01:01P	01:02:01G	03:01:01G	03:01P	06:02P	NT	NT	05:01:01G	23:01:01G
188	02:01:01	25:01:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01P	15:01:01	NT	NT	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01:04	02:06	05:01:01	23:01:01:01
189	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
190	02:01:01	25:01:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01P	15:01:01	4*01:01P	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01:04	02:06	05:01:01	23:01:01:01
192	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01G	15:01:01	4*01:01:01G	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01
205	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
213	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:01P	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
218	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	05:01	23:01
227	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01
238	02:01:01	25:01:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01P	15:01P	4*01:03	5*01:01	01:02	03:03	03:01P	06:02P	NT	NT	05:01P	23:01:01:01
239	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
240	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:01P	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
258	02:01:01	25:01:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01	4*01:03	5*01:01	01:02:01	03:03:01	03:01	06:02	01:03	02:06	05:01	23:01:01:01
264	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
265	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:01P	5*01:01P	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
266	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01	15:01	4*01:03	5*01:01	01:02:01	03:03:01	03:01	06:02	01:03	02:06	05:01:01	23:01:01
267	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
273	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	NT	NT	05:01:01	23:01:01
274	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01G	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01G
279	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01P	NT	NT	01:02	03:03	03:01	06:02	NT	NT	05:01P	23:01
280	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
294	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:01P	5*01:01	01:02	03:03	03:01	06:02	NT	NT	05:01	23:01
298	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:01P	5*01:01P	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
307	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
321	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:01P	5*01:01P	01:02:01	03:03:01	03:01P	06:02:01	01:03:01	02:06	05:01:01	23:01:01
340	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
343	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	NT	NT	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
345	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01	NT	NT	01:02:01	03:03:01	03:01	06:02	NT	NT	05:01	23:01
353	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
356	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
403	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01G	15:01:01G	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	05:01:01G	23:01:01
615	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
726	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
805	02:01	25:01	18:01	44:02	05:01	12:03	04:01:01G	15:01P	4*01:01P	5*01:01P	01:02	03:03						

Table 19. Individual laboratory results for DNA # 1135 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2862	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:01:01G	5*01:01:01G	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:02:02G	05:01:01	23:01:01
3410	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	05:01	23:01
3438	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:01:01G	5*01:01:01G	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
3582	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01
3614	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01:01G	4*01:01:01G	5*01:01:01G	01:02	03:03	03:01	06:02	01:03	02:02:02G	05:01:01G	23:01:01G
3625	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
3849	02:01:01	25:01:01:01	18:01:01	44:02:01	05:01:01	12:03:01	NT	NT	NT	NT	01:02:01G	03:01:01G	03:01:01G	06:02:01G	01:03:01G	02:02:02G	NT	NT
4237	02:01:01	25:01:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01P	15:01P	4*01:03	5*01:01	01:02	03:02	03:01P	06:02P	01:03P	02:02P	05:01P	23:01:01
4345	02:01:01:01	25:01P	18:01:01:01	44:02:01:01	05:01P	12:03:01:01	04:01P	15:01:01:01	4*01:01:01G	5*01:01P	01:02:01:01	03:01P	03:01:01:01	06:02P	01:03:01:04	02:06	05:01P	23:01
4545	02:01:01G	25:01:01G	18:01:01G	44:02:01G	05:01:01G	12:03:01G	04:01:01G	15:01:01G	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	05:01:01G	23:01
4582	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
6051	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01G	23:01:01G
9227	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	NT	NT	NT	NT	03:01:01	06:02:01	NT	NT	05:01:01	23:01:01
9228	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
9230	02:01:01	25:01:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01	4*01:03	5*01:01	01:02:01	03:03:01	03:01	06:02	01:03	02:06	05:01	23:01:01:01
9231	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01
9232	02:01:01:01	25:01:01:01	18:01:01	44:02:01:01	05:01:01:02	12:03:01:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01
14982	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03:01	5*01:01:01G	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:06	05:01:01	23:01:01G
45852	02:01:01	25:01:01	18:01:01	44:02:01G	05:01:01	12:03:01	04:01:01	15:01:01	4*01:01:01G	5*01:01:01G	01:02:01	03:03:01	03:01:01	06:02:01	01:03:01	02:02:02G	05:01:01	23:01:01
Final Consensus based on High Resolution	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01

Table 20. Individual laboratory results for DNA # 1135 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	NT	NT
193	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	05:01:01G	23:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:07	05:01	23:01
292	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
313	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
317	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:01	5*01:01	01:02	03:01	03:01	06:02	01:03	02:02	05:01	23:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	03:01	03:01	06:02	NT	NT	NT	NT
1251	02:01:01G	25:01:01G	18:01:01G	44:02:01G	05:01:01G	12:03:01G	04:01:01G	15:01:01G	4*01:03	5*01:01:01G	NT	NT	03:01:01G	06:02:01G	NT	NT	05:01:01G	23:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01P	23:01
4420	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	5*01:01	01:02	03:03	03:01	06:02	01:03	02:02	05:01	23:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01

Table 21. Individual laboratory results for DNA # 1135 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
144	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
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	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
162	02	25	18	44	05	12	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
190	02	25	18	44	05	12	04	15	4*PRESENT	5*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
192	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	01	02	05	23
199	02	33	14	15	01	08	01	08	NT	NT	01	04	04	05	NT	NT	NT	NT
205	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
213	02	25	18	44	05	12	04	15	NT	NT	01	03	03(DQ7)	06	01	02	05	23
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
228	02	25	18	44	05	12	04	15	4*PRESENT	5*PRESENT	01	03	03	06	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	02	25	18	44	05	12	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
245	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
255	02	25	18	44	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
266	02	25	18	44	05	12	04	15	NT	NT	01	03	03(DQ8)	06	01	02	05	23
267	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
273	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	NT	NT	05	23
274	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	NT	NT	NT	NT
279	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
280	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	01	02	05	23
292	02	25	18	44	05	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
294	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	NT	NT	05	23
300	NT	NT	NT	NT	NT	NT	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
305	02	25	18	44	05	12	04	15	NT	NT	01	03	03(DQ7)	06	NT	NT	NT	NT
307	02	25	18	44	05	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
309	02	25	18	44	05	12	04	15	4*01	NP	01	03	03	06	01	02	05	23
310	02	25	18	44	05	12	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	25	18	44	05	12	04	15	NT	NT	01	03	03(DQ7)	06	01	02	05	23
334	02	25	18	44	05	12	04	15	NT	NT	01	03	03(DQ7)	06	01	02	05	23
336	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
340	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
345	02	25	18	44	NT	NT	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
346	02	25	18	44	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	25	18	44	NT	NT	04	04	NT	NT	01	03	03	06	NT	NT	NT	NT
355	02	25	18	44	05	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
358	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	NT	NT	NT	NT
519	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23

Table 21. Individual laboratory results for DNA # 1135 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
1189	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
1251	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	NT	NT	NT	NT	NT	NT
3438	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
3600	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	NT	NT
3614	02	25	18	44	05	12	04	15	4*PRESENT	5*PRESENT	01	03	03(DQ7)	06	01	02	05	23
3849	02	25	18	44	05	12	NT	NT	NT	NT	01	03	03(DQ7)	06	01	02	NT	NT
4237	02	25	18	44	05	12	04	15	NT	NT	01	03	03(DQ7)	06	01	02	05	23
4420	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
4582	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	01	02	05	23
4585	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
8050	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
8092	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
9221	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
9227	02	25	18	44	05	12	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
9228	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
Final Consensus	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	01	02	05	23

Table 22. Individual laboratory results for DNA # 1136 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01G	15:01:01G	5*01:01:01G	5*01:01:01G	01:02:01	01:02:01	06:02:01G	06:02:01G	01:03:01	01:03:01	04:01:01G	04:01:01G
125	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	NT	NT	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
134	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
138	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
144	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
147	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
148	03:01:01G	03:01:01G	07:02:01G	27:05:02G	02:02:02G	07:02:01G	15:01:01G	15:01:01G	NT	NT	NT	NT	06:02:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
158	03:01P	03:01P	07:02P	27:05	02:02P	07:02P	15:01P	15:01P	NEW	NT	NT	NT	06:02P	06:02P	NT	NT	04:01P	04:01P
176	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	NT	NT	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
185	03:01:01G	03:01:01G	07:02:01G	27:05:02G	02:02:02G	07:02:01G	15:01P	15:01P	5*01:01P	5*01:01P	01:02:01G	01:02:01G	06:02P	06:02P	NT	NT	04:01:01G	04:01:01G
188	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	NT	NT	01:02:01	01:02:01	06:02P	06:02P	01:03:01	01:03:01	04:01:01	04:01:01
189	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
190	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
192	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	NT	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
205	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	NT	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
213	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
218	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	NT	NT	NT	NT	06:02	06:02	NT	NT	04:01	04:01
227	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
238	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01P	15:01P	5*01:01	5*01:01	01:02	01:02	06:02P	06:02P	NT	NT	04:01P	04:01P
239	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
240	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
258	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01	15:01	5*01:01	5*01:01	01:02:01	01:02:01	06:02	06:02	01:03	01:03	04:01	04:01
264	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
265	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01P	5*01:01P	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
266	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01	15:01	5*01:01	5*01:01	01:02:01	01:02:01	06:02	06:02	01:03:01	01:03:01	04:01	04:01
267	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
273	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	NT	NT	04:01:01	04:01:01
274	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01G	5*01:01:01G	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	NP	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01P	5*01:01P	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
307	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	NT	NT	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	01:02	NT	NT	NT	NT	NT	NT
316	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
321	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01P	5*01:01P	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
340	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
343	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	NT	NT	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
345	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01	15:01	NT	NT	01:02:01	01:02:01	06:02	06:02	NT	NT	04:01	04:01
353	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
356	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	NT	NT	NT	NT	06:02	06:02	NT	NT	NT	NT
403	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01G	15:01:01G	NT	NT	NT	NT	06:02:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
615	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
726	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
805	03:01	03:01	07:02	27:05	02:02	07:02	15:01P	15:01P	5*01:01P	5*01:01P	01:02	01:02	06:02P	06:02P	01:03:01G	01:03:01G	04:01	04:01
1189	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
1647	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
1686	03:01:01:01	03:01:01:01	07:02:01	27:05:02	02:02:02:01	07:02:01:03	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
2015	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	NT	NT	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
2063	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
2347	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01P	5*01:01P	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01

Table 22. Individual laboratory results for DNA # 1136 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2862	03:01:01	NT	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	NT	5*01:01:01G	NT	01:02:01	NT	06:02:01	NT	01:03:01	NT	04:01:01	NT
3410	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	NT	NT	NT	NT	06:02	06:02	NT	NT	04:01	04:01
3438	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01G	5*01:01:01G	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
3582	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
3614	03:01	03:01	07:02	27:05	02:02	07:02	15:01:01G	15:01:01G	5*01:01:01G	5*01:01:01G	01:02	01:02	06:02	06:02	01:03	01:03	04:01:01G	04:01:01G
3625	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
3849	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	NT	NT	NT	NT	01:02:01G	01:02:01G	06:02:01G	06:02:01G	01:03:01G	01:03:01G	NT	NT
4237	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01P	15:01P	5*01:01	5*01:01	01:02	01:02	06:02P	06:02P	01:03	01:03	04:01P	04:01P
4345	03:01P	03:01P	07:02P	27:05P	02:02P	07:02P	15:01:01:01	15:01:01:01	5*01:01P	5*01:01P	01:02:01:01	01:02:01:01	06:02P	06:02P	01:03P	01:03P	04:01:01:01	04:01:01:01
4545	03:01:01G	03:01:01G	07:02:01G	27:05:02G	02:02:02G	07:02:01G	15:01:01G	15:01:01G	NT	NT	NT	NT	06:02:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
4582	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
6051	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	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	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01P	04:01P
9227	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	NT	NT	NT	NT	06:02:01	06:02:01	NT	NT	04:01:01	04:01:01
9228	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
9230	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01	15:01	5*01:01	5*01:01	01:02:01	01:02:01	06:02	06:02	01:03	01:03	04:01	04:01
9231	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
9232	03:01:01:01	03:01:01:01	07:02:01	27:05:02	02:02:02:01	07:02:01:03	15:01:01	15:01:01	5*01:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
14982	03:01:01	03:01:01	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	15:01:01	5*01:01:01G	5*01:01:01G	01:02:01	01:02:01	06:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
45852	03:01:01	NT	07:02:01	27:05:02	02:02:02	07:02:01	15:01:01	NT	5*01:01:01G	NT	01:02:01	NT	06:02:01	NT	01:03:01	NT	04:01:01	NT
Final Consensus based on High Resolution	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01

Table 23. Individual laboratory results for DNA # 1136 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	03:01	03:01	07:02	27:05:02G	02:02	07:02	15:01	15:01	NT	NT	NT	NT	06:02	06:02	NT	NT	NT	NT
193	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	NT	NT	NT	NT	06:02	06:02	NT	NT	04:01:01G	04:01:01G
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
292	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	NT	NT	NT	NT	06:02	06:02	NT	NT	NT	NT
313	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	NT	NT	NT	NT	06:02	06:02	NT	NT	NT	NT
317	03:01	03:01	07:02	27:03	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	01:02	06:02	06:02	NT	NT	NT	NT
1251	03:01:01G	03:01:01G	07:02:01G	27:05:02G	02:02:02G	07:02:01G	15:01:01G	15:01:01G	5*01:01:01G	5*01:01:01G	NT	NT	06:02:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
4420	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	03:01	03:01	07:02	27:05	02:02	07:02	15:01	15:01	5*01:01	5*01:01	01:02	01:02	06:02	06:02	01:03	01:03	04:01	04:01

Table 24. Individual laboratory results for DNA # 1136 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
144	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
162	03	03	07	27	02	07	15	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
190	03	03	07	27	02	07	15	15	5*PRESENT	5*PRESENT	NT	NT	06	06	NT	NT	NT	NT
192	03	03	07	27	02	07	15	15	5*01	NT	01	01	06	06	01	01	04(DP401)	04(DP401)
199	02	25	18	44	05	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
205	03	03	07	27	02	07	15	15	5*01	NT	01	01	06	06	01	01	04(DP401)	04(DP401)
213	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	01	01	04(DP401)	04(DP401)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
228	03	03	07	27	02	07	15	15	5*PRESENT	5*PRESENT	01	01	06	06	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	03	03	07	27	02	07	15	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
245	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
255	03	03	07	27	NT	NT	15	15	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	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
266	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	01	01	04(DP401)	04(DP401)
267	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
273	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	NT	NT	04(DP401)	04(DP401)
274	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	NT	NT	NT	NT
279	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
280	03	03	07	27	02	07	15	15	5*01	NP	01	01	06	06	01	01	04(DP401)	04(DP401)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	03	NT	07	27	02	07	15	NT	5*01	NT	01	NT	06	NT	01	NT	04(DP401)	NT
288	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
292	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	NT	NT	NT	NT
294	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	NT	NT	04(DP401)	04(DP401)
300	NT	NT	NT	NT	NT	NT	15	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
305	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	NT	NT	NT	NT
307	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	NT	NT	NT	NT
309	03	03	07	27	02	07	15	15	5*01	NP	01	01	06	06	01	01	04(DP401)	04(DP401)
310	03	03	07	27	02	07	15	15	5*PRESENT	5*PRESENT	NT	NT	06	06	NT	NT	NT	NT
311	03	03	07	27	02	07	15	15	5*PRESENT	5*PRESENT	01	01	06	06	NT	NT	NT	NT
318	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	01	01	04(DP401)	04(DP401)
334	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	01	01	04(DP401)	04(DP401)
336	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
340	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
345	03	03	07	27	NT	NT	15	15	NT	NT	01	01	06	06	NT	NT	NT	NT
346	03	03	07	27	NT	NT	15	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	03	03	07	27	NT	NT	15	15	NT	NT	01	01	06	06	NT	NT	NT	NT
355	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	NT	NT	NT	NT
358	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	NT	NT	NT	NT
519	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)

Table 24. Individual laboratory results for DNA # 1136 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
1189	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
1251	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	NT	NT	NT	NT	NT	NT
3438	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
3600	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	NT	NT
3614	03	03	07	27	02	07	15	15	5*PRESENT	5*PRESENT	01	01	06	06	01	01	04(DP401)	04(DP401)
3849	03	03	07	27	02	07	NT	NT	NT	NT	01	01	06	06	01	01	NT	NT
4237	03	03	07	27	02	07	15	15	NT	NT	01	01	06	06	01	01	04(DP401)	04(DP401)
4420	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
4582	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
8092	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
9221	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
9227	03	03	07	27	02	07	15	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
9228	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)
Final Consensus	03	03	07	27	02	07	15	15	5*01	5*01	01	01	06	06	01	01	04(DP401)	04(DP401)

Table 25. Individual laboratory results for DNA # 1131 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
192	01:03/01:06/01:10/01:11/01:122/01:123/01:138/01:145/01:147	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/005:13/006/010	003:01/005:02/005:08/005:13/006/010	NGS-INH	
227	01:03:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:03:01	01:03:02:--	01:01:01:--	01:01:01:--	01:01:01:01	01:01:01:01	01:01:01:01	01:01:01:01	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:03:02:01 or E*01:03:02:32
9232	01:03:01:01	01:03:02	01:01:01	01:01:01	01:01:01:01	01:01:01:01	01:01:01:01	01:01:01:01	005:02	005:02	NGS	

Table 26. Individual laboratory results for DNA # 1132 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-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	003:01/005:02/005:08/005:13/006/010	003:01/005:02/005:08/005:13/006/010	NGS-INH	
227	01:01:01	01:03:01	01:01:01	01:01:01	01:01:02	01:05:01N	01:02:01	02:05:01	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:03:01:01	01:01:01:08	01:01:01:--	01:01:02:01	01:05:01N	01:02:01:02	02:05:01:03	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 HLA-F: F*01:01:01:09 or F*01:01:01:29
9232	01:01:01	01:03:01:01	01:01:01:08	01:01:01	01:01:02:01	01:05:01N	01:02:01:02	02:05:01:03	005:02	005:02	NGS	

Table 27. Individual laboratory results for DNA # 1133 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-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	002:01/002:03/002:06/018:01	003:01/005:02/005:08/005:13/006/010/019:01/038	NGS-INH	
227	01:01:01	01:03:02	01:01:02	01:03:01	01:01:02	01:04:01	02:05:01	DEL	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:03:02:--	01:01:02:08	01:03:01:--	01:01:02:01	01:04:01:01	02:05:01:01	DEL	002:01	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 and E*01:03:02:01 or E*01:03:02:32 HLA-F*01:03:01:01 or F*01:03:02:04
9232	01:01:01	01:03:02	01:01:02:08	01:03:01	01:01:02:01	01:04:01:01	02:05:01:01	DEL	002:01	005:02	NGS	

Table 28. Individual laboratory results for DNA # 1134 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-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/01:14 0/01:142/01:143/01:144/01:146/01:148	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/ 005:08/005:13/ 006/010	003:01/005:02/ 005:08/005:13/ 006/010	NGS-INH	
227	01:01:01	01:03:02	01:01:1	01:01:02	01:01:01	01:03:01	01:01:01	02:12	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:03:02:--	01:01:01:13	01:01:02:--	01:01:01:01	01:03:01:02	01:01:01:01	02:12	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 and E*01:03:02:01 or E*01:03:02:32 HLA- F*01:01:02:07 or F*01:01:02:11
9232	01:01:01	01:03:02	01:01:01:13	01:01:02	01:01:01:01	01:03:01:02	01:01:01:01	02:12	005:02	005:02	NGS	

Table 29. Individual laboratory results for DNA # 1135 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-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/01:14 0/01:142/01:143/01:144/01:146/01:148	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/01:14 0/01:142/01:143/01:144/01:146/01:148	NT	NT	NT	NT	NT	NT	002:01/002:03/ 002:06/018:01	003:01/005:02/ 005:08/005:13/ 006/010/019:01 /038	NGS-INH	
227	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:02	01:01:01	01:02:01	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:01:01:--	01:01:01:--	01:01:01:08	01:01:01:01	01:01:02:01	01:01:01:01	01:02:01:01	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
9232	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01:01	01:01:02:01	01:01:01:01	01:02:01:01	002:01	005:02	NGS	

Table 30. Individual laboratory results for DNA # 1136 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-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/01:14 0/01:142/01:143/01:144/01:146/01:148	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/ 005:08/005:13/ 006/010	004:01/028	NGS-INH	
227	01:01:01	01:03:02	01:03:01	01:03:01	01:01:01	01:01:01	02:04:01	02:04:01	004:01	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:03:02:--	01:03:01:--	01:03:01:--	01:01:01:05	01:01:01:05	02:04:01	02:04:01	see comments	see comments	NGS-AlloSeq Tx17	MICB Ambiguity MICB*004:01 + MICB*005:02 = MICB*010 + MICB*028 HLA-E: E*01:01:01:01 or E01:01:01:20 and E*01:03:02:01 or E*01:03:02:32 HLA-F: F*01:03:01:01 or F*01:03:01:04
9232	01:01:01	01:03:02	01:03:01	01:03:01	01:01:01	01:01:01	02:04:01	02:04:01	004:01	005:02	NGS	

DNA Exchange - 185 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
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	GIL-NGS
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
144	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17
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
162	BS-SBT	BS-SBT	BS-SBT	BS-SBT			BS-SBT		
176	INH-SSO	INH-SSO	INH-SSO	INH-SSO		INH-SSO	INH-SSO	INH-SSO	INH-SSO
	INH-SBT	INH-SBT	INH-SBT	INH-SBT		INH-SBT	INH-SBT	INH-SBT	INH-SBT
	INH-NGS	INH-NGS	INH-NGS	INH-NGS		INH-NGS	INH-NGS	INH-NGS	INH-NGS
185	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS		INH-NGS
188	GIL-NGS	GIL-NGS	GIL-NGS	OLE-SSP GIL-NGS		GIL-NGS	OL-SBT OLE-SSP GIL-NGS	GIL-NGS	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	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 OL-OLE-SC-SSP 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		SBT-SC
205	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS
213	HM-NGS	OLE-SSP 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
227	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
238	HT-SSO GIL-NGS	HT-SSO GIL-NGS	HT-SSO GIL-NGS	HT-SSO GIL-NGS	OLE-SSP	OLE-SSP HT-SSO	HT-SSO GIL-NGS		OLE-SSP GIL-NGS
239	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
240	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS
242						OLE-SSP			
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		OLE-SSP	OLE-SSP		
264	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG
265	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
266	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
267	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
273	OLE-SSP NGS-Tx17 BAG-SSO	NGS-Tx17 BAG-SSO BAG-OLE-PRO-SSP	OLE-SSP NGS-Tx17 BAG-SSO	OLE-SSP NGS-Tx17 BAG-SSO	OLE-SSP NGS-Tx17	OLE-SSP NGS-Tx17 BAG-SSO	OLE-SSP NGS-Tx17 BAG-SSO		OLE-SSP NGS-Tx17
274	OL-SSO NGS-OL	OL-SSO NGS-OL	OL-SSO NGS-OL	OL-SSO NGS-OL	NGS-OL	OL-SSP OL-SSO NGS-OL	OL-SSP OL-SSO NGS-OL	NGS-OL	NGS-OL

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
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-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
288	INN-SSP	INN-SSP	INN-SSP	INN-OLE-SSP	INN-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-SSP	INN-SSP
292	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-OMX-NGS
298	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
307	NGS-OL	OL-SSP NGS-OL	OL-SSP NGS-OL	OL-SSP NGS-OL		NGS-OL	NGS-OL	NGS-OL	NGS-OL
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 NGS-OL	OL-SSO OLE-SSP NGS-OL	OL-SSO NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	OLE-SSP NGS-OL
340	NGS-OMX	NGS-OMX	Other-Others NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
343	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
345	GIL-NGS	GIL-NGS	LS-rtPCR GIL-NGS	GIL-NGS		GIL-NGS	GIL-NGS		GIL-NGS
353	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS
355						LUM-SSO	LUM-SSO		
356	INH-SBT INH-NGS	INH-SBT INH-NGS	INH-SBT INH-NGS	INH-SBT INH-NGS			INH-SBT INH-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-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			GIL-NGS					
1189	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
1251	PRO-SBT Other-Others	PRO-SBT Other-Others	PRO-SBT Other-Others	PRO-SBT Other-Others	PRO-SBT Other-Others OL-SSP	Other-Others	PRO-SBT Other-Others	Other-Others	PRO-SBT Other-Others
1647	Other-Others GD-NGS	Other-Others GD-NGS	Other-Others GD-NGS	Other-Others GD-NGS	Other-Others GD-NGS	Other-Others GD-NGS	Other-Others GD-NGS	Other-Others GD-NGS	Other-Others 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 GD-NGS	OL-SSO 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
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	OL-SSO GIL-NGS	GIL-NGS	GIL-NGS	OL-SSO GIL-NGS			OL-SSO 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-rtPCR

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
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-SBT IL-INH-NGS	INH-SBT IL-INH-NGS	INH-SBT IL-INH-NGS			IL-INH-NGS	IL-INH-NGS	IL-INH-NGS	
4237	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	SBT-SC OL-SSO	SBT-SC OL-SSO	SBT-SC OL-SSO	SBT-SC OL-SSO NGS-OL			SBT-SC OL-SSO		SBT-SC OL-SSO
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	GIL-NGS			GIL-NGS		GIL-NGS
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	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
14982	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
45852	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS

DNA Exchange - 185 Participants and Methods Low Resolution

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
134	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	
144	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
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		
190	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-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO		
205	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
213	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP		INN-SSP	INN-OLE-SSP	INN-SSP	INN-SSP
215		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		
242	OLE-SSP	OL-OLE-SSP	OL-OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP		
244	OL-SSP BAG-SSO	BAG-SSO	BAG-SSO	OL-SSP BAG-SSO			BAG-SSO		
245	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR
255	OL-SSO	OL-SSO		OL-SSO					
262	PRO-SSP	PRO-SSP	OLE-PRO-SSP	PRO-SSP	PRO-SSP	OLE-SSP	PRO-SSP		
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
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	HTR-rtPCR BAG-SSO BAG-PRO-SSP	HTR-rtPCR BAG-SSO BAG-PRO-SSP	HTR-rtPCR BAG-SSO BAG-PRO-SSP	HTR-rtPCR BAG-SSO BAG-PRO-SSP	HTR-rtPCR BAG-PRO-SSP	HTR-rtPCR BAG-SSO	HTR-rtPCR BAG-SSO BAG-PRO-SSP		HTR-rtPCR
274	OL-SSP OL-SSO	OL-SSP OL-SSO	OL-SSP OL-SSO	OL-SSP OL-SSO	OL-SSO	OL-SSP OL-SSO	OL-SSP 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
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	INN-SSP BAG-SSO	INN-SSP BAG-SSO	INN-SSP BAG-SSO	INN-INT-OLE-SSP	INN-SSP	INN-OLE-SSP	INN-SSP	INN-SSP	INN-SSP
292	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO		
294	Other-Others OL-SSO LS-OLE-SSP	Other-Others OL-SSO LS-OLE-SSP	Other-Others OL-SSO LS-OLE-SSP	Other-Others OL-SSO LS-OLE-SSP	OLE-SSP	OL-SSO LS-SSP	Other-Others OL-SSO LS-OLE-SSP		LS-OL-OLE-SSP
300				OL-SSP			OL-SSP		
304		GTI-SSO	GTI-SSO	GTI-SSO		GTI-SSO	GTI-SSO		
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
310	OL-SSP			OL-SSP					
311	PRO-SSP	PRO-SSP	PRO-SSP	PRO-SSP	PRO-SSP	OLE-SSP	PRO-SSP		
318	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-SSO
334	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO

Participants and Methods Low Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
340	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
345	LS-rtPCR IMM-SSO	LS-rtPCR IMM-SSO	LS-rtPCR	LS-rtPCR IMM-SSO	LS-rtPCR	LS-rtPCR IMM-SSO	LS-rtPCR IMM-SSO	LS-rtPCR	LS-rtPCR
346	OLE-SSP	OLE-SSP		OLE-SSP	OLE-SSP				
350	IMM-SSO	IMM-SSO		IMM-SSO		IMM-SSO	IMM-SSO		IMM-SSO
355	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO		LUM-SSO	LUM-SSO		
358	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO		
402	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	IMM-OL-SSO	IMM-OL-SSO
519	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO
726	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR
732	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
1189	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR
1251	Other-Others OL-SSO	Other-Others OL-SSO	Other-Others OL-SSO	Other-Others OL-SSO	Other-Others OL-SSO	Other-Others OL-SSO	Other-Others OL-SSO	Other-Others OL-SSO	Other-Others OL-SSO
2347	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
3410						OL-SSO			
3438	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP
3600	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	
3614	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
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
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
8139	INN-SSO	INN-SSO	INN-SSO	INN-SSO		INN-SSO	INN-SSO		
9221	OL-SSO	OL-SSO	OL-OLE-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
9225	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
9227	SSO-TEP	SSO-TEP	SSO-TEP	SSO-TEP		SSO-TEP	SSO-TEP		SSO-TEP
9228	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO