

UCLA INTERNATIONAL HLA DNA EXCHANGE 186TH SUMMARY



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DNA Sample	
#1137	#1140
#1138	#1141
#1139	#1142

DNA #1137 MIXED

HLA-A		HLA-B		HLA-C	
66:01	68:02	14:02	53:01	06:02	08:02
DRB1		DRB3/4/5		DQA1	
13:02	13:03	3*01:01	3*03:01	01:02	05:05
				DQB1	
				03:01	06:04
				DPA1	
				01:03	02:01
				DPB1	
				04:01	131:01

The likely class II associations for this cell are DRB1*13:02-DQB1*06:04 and DRB1*13:03-DQB1*03:01, with respective frequencies of HF=0.03208 and HF=0.00990, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1137 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9. The results for DNA #1137 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	
144	01:01:01	01:03:05	01:01:01	01:01:01	01:01:02	01:01:19	01:02:01	02:05:01	005:02	005:02
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
227	01:01	01:03	01:01	01:01	01:01	01:01	01:02	02:05	005:02	005:02
1686	01:01:01:--	01:03:05:01	01:01:01:--	01:01:01:--	01:01:02:01	01:01:19	01:02:01:05	02:05:01:01	005:02	005:02
9232	01:01:01	01:03:05:01	01:01:01	01:01:01	01:01:02:01	01:01:19	01:02:01:05	02:05:01:01	005:02	005:02

**DNA Sample**

#1137	#1140
#1138	#1141
#1139	#1142

DNA #1138 CAUCASIAN

HLA-A		HLA-B		HLA-C			
02:01	32:01	13:02	40:02	06:02	15:02		
DRB1		DRB3/4/5		DQA1		DQB1	
07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03
						DPA1	
						DPB1	
						01:03	
						04:01	

The likely class I associations in this cell are A*02:01-B*13:02-C*06:02 and A*32:01-B*40:02-C*15:02, with respective frequencies of HF=0.00818 and HF=0.00018, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1138 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12. The results for DNA #1138 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	
144	01:01:01	01:03:02	01:01:01	01:01:02	01:01:01	01:01:22	01:01:01	02:03:02	005:02	005:03
192	01:01:01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/005:13/006:010	005:03
227	01:01	01:03	01:01	01:01	01:01	01:01	01:01	02:03	005:02	005:03
1686	01:01:01:--	01:03:02:--	01:01:01:08	01:01:02:10	01:01:01:01	01:01:22:01	01:01:01:01	02:03:02:01	005:02	005:03
9232	01:01:01	01:03:02	01:01:01:08	01:01:02:10	01:01:01:01	01:01:22:01	01:01:01:01	02:03:02	005:02	005:03



DNA Sample

#1137	#1140
#1138	#1141
#1139	#1142

DNA #1139 CAUCASIAN

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

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

The results for DNA #1139 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15. The results for DNA #1139 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	
144	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
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	002:01/002:03/002:06/018:01	003:01/005:02/005:08/005:13/006/010/019:01/038
227	01:01	01:01	01:01	01:01	01:01	01:01	01:01	01:02	002:01	005:02
1686	01:01:01:--	01:01:01:--	01:01:01:08	01:01:01:--	01:01:01:01	01:01:02:01	01:01:01:01	01:02:01:01	002:01	005:02
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



DNA Sample

#1137	#1140
#1138	#1141
#1139	#1142

DNA #1140 BLACK

HLA-A		HLA-B		HLA-C							
36:01	68:02	14:02	53:01	04:01	08:02						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01

The likely class II associations in this cell are DRB1*03:01-DQB1*02:01 and DRB1*15:03-DQB1*06:02, with respective frequencies of HF=0.07242 and HF=0.12483, as seen in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #1140 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18. The results for DNA #1140 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	
144	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
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
227	01:01	01:03	01:01	01:03	01:01	01:04	02:05	02:10	005:02	005:02
1686	01:01:01:--	01:03:02:--	01:01:01:18	01:03:01:03	01:01:02:01	01:04:04:01	02:05:01:01	02:10:01:02	005:02	005:02
9232	01:01:01	01:03:02	01:01:01	01:03:01:03	01:01:02:01	01:04:04:01	02:05:01:01	02:10:01:02	005:02	005:02



DNA Sample

#1137	#1140
#1138	#1141
#1139	#1142

DNA #1141 BLACK

HLA-A		HLA-B		HLA-C			
23	24:02	35:01	41:01	04:01	07:01		
DRB1		DRB3/4/5		DQA1		DQB1	
08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03
						DPA1	
						01:03	04:01
						DPB1	
						02:01	04:01

A consensus for the A*23 locus could not be reached seeing as 1 participant reported A*23:01:01, 22 participants reported A*23:01:01G, 15 participants reported A*23:01P, 22 participants reported A*23:96, 4 participants reported A*23:17, and 3 participants reported A*23:01. Among the participants reporting G-group and P-group High Resolution results, 9 commented they could not exclude A*23:96. A*23:96 differs in exon 4, at codon 211 (GCG -> GTG) and in exon 5, at codon 283 (CAC -> CCC).

The likely class II associations in this cell are DRB1*08:04-DQB1*03:01 and DRB1*13:01-DQB1*06:03, with respective frequencies of HF=0.04018 and HF=0.02121, as seen in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #1141 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21. The results for DNA #1141 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	
144	NT		NT		NT		NT		NT	
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		002:01/002:03/002:06	
227	01:01		01:03		01:04		DEL		002:01	
1686	01:01:01:--		01:03:02:--		01:04:01:01		DEL		002:01	
9232	01:01:01		01:03:02		01:04:01:01		DEL		002:01	

**DNA Sample**

#1137	#1140
#1138	#1141
#1139	#1142

DNA #1142 ASIAN

HLA-A		HLA-B		HLA-C					
02:01	11:01	51:01	58:01	03:02	14:02				
DRB1		DRB3/4/5		DQA1		DQB1		DPA1	
03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02
								04:01	05:01

The likely class I associations in this cell are A*02:01-B*51:01-C*14:02 and A*11:01-B*58:01-C*03:02, with respective frequencies of HF=0.00293 and HF=0.00287, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #1142 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24. The results for DNA #1142 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	
144	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
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	004:01/004:03/028/034	008:01/035/037/045N/053
227	01:03	01:03	01:01	01:01	01:01	01:01	01:01	02:07	004:01	008:01
1686	01:03:01:01	01:03:02:--	01:01:01:--	01:01:02:--	01:01:01:01	01:01:03:03	01:01:01:01	02:07:01:01	004:01	008:01
9232	01:03:01:01	01:03:02	01:01:01	01:01:02:09	01:01:01:01	01:01:03:03	01:01:01:01	02:07:01:01	004:01	008:01

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Table 1. Summary of the 186th DNA Exchange (DNA #1137)

A				B				C			
68 labs High / 54 labs Low		% (n)		67 labs High / 55 labs Low		% (n)		67 labs High / 53 labs Low		% (n)	
A*66:01:01:01	3 (2)	A*68:02:01:01	10(7)	B*14:02:01	52(35)	B*53:01:01:01	5 (3)	C*06:02:01	52(35)	C*08:02:01:01	3 (2)
A*66:01:01	50(34)	A*68:02:01	43(29)	B*14:02:01G	3 (2)	B*53:01:01	48(32)	C*06:02:01G	3 (2)	C*08:02:01	50(33)
A*66:01:01G	3 (2)	A*68:02:01G	3 (2)	B*14:02P	4 (3)	B*53:01:01G	3 (2)	C*06:02P	5 (3)	C*08:02:01G	3 (2)
A*66:01P	4 (3)	A*68:02P	4 (3)	B*14:02	40(27)	B*53:01P	5 (3)	C*06:02	40(27)	C*08:02P	3 (2)
A*66:01	40(27)	A*68:02	37(25)	B*14(B65)	52(29)	B*53:01	40(27)	C*06	100(53)	C*08:02	41(27)
A*66	98(53)	A*68:01	3 (2)	B*14	47(26)	B*53	100(55)			C*08	100(53)
A*26	2 (1)	A*68	100(54)								

DRB1				DRB3/4/5				DQA1			
69 labs High / 55 labs Low		% (n)		55 labs High / 34 labs Low		% (n)		63 labs High / 46 labs Low		% (n)	
DRB1*13:02:01	52(36)	DRB1*13:03:01	46(32)	DRB3*01:01:02:01	2 (1)	DRB3*03:01:01	34(19)	DQA1*01:02:01:01	2 (1)	DQA1*05:05:01:01	2 (1)
DRB1*13:02:01G	1 (1)	DRB1*13:03P	6 (4)	DRB3*01:01:02	33(18)	DRB3*01:01:02	2 (1)	DQA1*01:02:01	52(33)	DQA1*05:05:01	52(33)
DRB1*13:02P	6 (4)	DRB1*13:03	48(33)	DRB3*01:01:02G	13(7)	DRB3*03:01:01G	11(6)	DQA1*01:02:01G	3 (2)	DQA1*05:01:01G	3 (2)
DRB1*13:02	41(28)	DRB1*13	100(55)	DRB3*01:01P	15(8)	DRB3*03:01P	16(9)	DQA1*01:02P	2 (1)	DQA1*05:01P	2 (1)
DRB1*13	100(55)			DRB3*01:01	38(21)	DRB3*03:01	33(18)	DQA1*01:02	41(26)	DQA1*05:05	41(26)
				DRB3*01	79(27)	DRB3*02:02	2 (1)	DQA1*01	100(46)	DQA1*05	100(46)
				DRB3*PRESENT	21(7)	DRB3*01:01	2 (1)				
						DRB3*03	79(26)				
						DRB3*02	3 (1)				
						DRB3*PRESENT	18(6)				

DQB1				DPA1				DPB1			
70 labs High / 54 labs Low		% (n)		56 labs High / 30 labs Low		% (n)		65 labs High / 29 labs Low		% (n)	
DQB1*03:01:01:01	1 (1)	DQB1*06:04:01:01	1 (1)	DPA1*01:03:01:04	4 (2)	DPA1*02:01:01	55 (31)	DPB1*04:01:01:01	2 (1)	DPB1*131:01:01	37(24)
DQB1*03:01:01	41(29)	DQB1*06:04:01	40(28)	DPA1*01:03:01:01	2 (1)	DPA1*02:01:01G	4 (2)	DPB1*04:01:01	35(23)	DPB1*17:01:01	1 (1)
DQB1*03:01:01G	7 (5)	DQB1*06:04:01G	4 (3)	DPA1*01:03:01	46(26)	DPA1*02:01P	4 (2)	DPB1*04:01:01G	20(13)	DPB1*17:01:01G	15(10)
DQB1*03:01P	6 (4)	DQB1*06:04P	7 (5)	DPA1*01:03:01G	5 (3)	DPA1*02:01	38(21)	DPB1*04:01P	9 (6)	DPB1*17:01P	11(7)
DQB1*03:01	44(31)	DQB1*06:04	47(33)	DPA1*01:03P	4 (2)	DPA1*02	100(30)	DPB1*04:01	34(22)	DPB1*131:01	32(21)
DQB1*03(DQ7)	56(30)	DQB1*06	100(54)	DPA1*01:03	39(22)			DPB1*04(DP401)	100(29)	DPB1*17:01	3 (2)
DQB1*03	44(24)			DPA1*01	100(30)					DPB1*131	34(10)
										DPB1*17	62(10)
										DPB1*04(DP402)	3 (1)

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

Table 2. Summary of the 186th DNA Exchange (DNA #1138)

A				B				C			
68 labs High / 55 labs Low		% (n)		68 labs High / 56 labs Low		% (n)		68 labs High / 54 labs Low		% (n)	
A*02:01:01:01	5 (3)	A*32:01:01:01	3 (2)	B*13:02:01:01	3 (2)	B*40:02:01	53(36)	C*06:02:01:01	3 (2)	C*15:02:01	53(36)
A*02:01:01	49(33)	A*32:01:01	49(33)	B*13:02:01	50(34)	B*40:02:01G	3 (2)	C*06:02:01	50(34)	C*15:02:01G	4 (3)
A*02:01:01G	3 (2)	A*32:01:01G	3 (2)	B*13:02:01G	3 (2)	B*40:02P	4 (3)	C*06:02:01G	3 (2)	C*15:02P	3 (2)
A*02:01P	1 (1)	A*32:01P	4 (3)	B*13:02P	4 (3)	B*40:02	40(27)	C*06:02P	4 (3)	C*15:02	40(27)
A*02:01	42(28)	A*32:01	41(28)	B*13:02	40(27)	B*40(B61)	54(30)	C*06:02	40(27)	C*15	98(53)
A*02	100(55)	A*32	100(55)	B*13	100(56)	B*40	46(26)	C*06	98(53)	C*12	2 (1)
								C*12	2 (1)		
DRB1				DRB3/4/5				DQA1			
68 labs High / 55 labs Low		% (n)		54 labs High / 35 labs Low		62 labs High / 46 labs Low		% (n)			
DRB1*07:01:01:01	2 (1)	DRB1*14:54:01	37(25)	DRB3*02:02:01:01	2 (1)	DRB4*01:03:01	39(20)	DQA1*01:04:01	50(31)	DQA1*02:01:01	50(31)
DRB1*07:01:01	43(29)	DRB1*14:01:01	2 (1)	DRB3*02:02:02	41(22)	DRB4*01:01:01G	10(5)	DQA1*01:01:01	2 (1)	DQA1*02:01:01G	3 (2)
DRB1*07:01:01G	9 (6)	DRB1*14:01:01G	10(7)	DRB3*02:02:02G	11(6)	DRB4*01:01P	17(9)	DQA1*01:01:01G	3 (2)	DQA1*02:01	47(29)
DRB1*07:01P	4 (3)	DRB1*14:01P	10(7)	DRB3*02:02P	7 (4)	DRB4*01:03	31(16)	DQA1*01:01P	3 (2)	DQA1*02	100(46)
DRB1*07:01	43(29)	DRB1*14:54	37(25)	DRB3*02:02	39(21)	DRB4*01:01	4 (2)	DQA1*01:04	40(25)		
DRB1*07	100(55)	DRB1*14:01	3 (2)	DRB3*02	80(28)	DRB4*01	77(27)	DQA1*01:01	2 (1)		
		DRB1*14	100(55)	DRB3*PRESENT	20(7)	DRB4*PRESENT	23(8)	DQA1*01	100(46)		
DQB1				DPA1				DPB1			
70 labs High / 55 labs Low		% (n)		56 labs High / 30 labs Low		65 labs High/ 31 labs Low		% (n)			
DQB1*02:02:01	43(30)	DQB1*05:03:01:01	1 (1)	DPA1*01:03:01:01	2 (1)			DPB1*04:01:01:01	1 (1)		
DQB1*02:01:01G	4 (3)	DQB1*05:03:01	43(30)	DPA1*01:03:01	52(29)			DPB1*04:01:01	45(29)		
DQB1*02:01P	4 (3)	DQB1*05:03:01G	4 (3)	DPA1*01:03:01G	2 (1)			DPB1*04:01:01G	9 (6)		
DQB1*02:02	49(34)	DQB1*05:03P	3 (2)	DPA1*01:03P	4 (2)			DPB1*04:01P	5 (3)		
DQB1*02	100(55)	DQB1*05:03	49(34)	DPA1*01:03	41(23)			DPB1*04:01	40(26)		
		DQB1*05	100(55)	DPA1*01	100(30)			DPB1*04(DP401)	100(31)		

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

Table 3. Summary of the 186th DNA Exchange (DNA #1139)

A				B				C			
67 labs High / 54 labs Low		% (n)		67 labs High / 55 labs Low		% (n)		67 labs High / 52 labs Low		% (n)	
A*02:01:01:01	5 (3)	A*25:01:01:01	10(7)	B*18:01:01:01	1 (1)	B*44:02:01:01	5 (3)	C*05:01:01:02	3 (2)	C*12:03:01:01	5 (3)
A*02:01:01	51(34)	A*25:01:01	43(29)	B*18:01:01	54(36)	B*44:02:01	51(34)	C*05:01:01	51(34)	C*12:03:01	51(34)
A*02:01:01G	5 (3)	A*25:01:01G	5 (3)	B*18:01:01G	3 (2)	B*44:02:01G	3 (2)	C*05:01:01G	3 (2)	C*12:03:01G	3 (2)
A*02:01P	5 (3)	A*25:01P	5 (3)	B*18:01P	3 (2)	B*44:02P	3 (2)	C*05:01P	5 (3)	C*12:03P	3 (2)
A*02:01	36(24)	A*25:01	37(25)	B*18:01	39(26)	B*44:02	39(26)	C*05:01	39(26)	C*12:03	39(26)
A*02	100(54)	A*25	100(54)	B*18	98(54)	B*44	100(55)	C*05	100(52)	C*12	100(52)
				B*44	2 (1)						
DRB1				DRB3/4/5				DQA1			
67 labs High / 54 labs Low		% (n)		53 labs High / 35 labs Low		% (n)		61 labs High / 46 labs Low		% (n)	
DRB1*04:01:01	45(30)	DRB1*15:01:01:01	2 (1)	DRB4*01:03:01	39(20)	DRB5*01:01:01	42(22)	DQA1*01:02:01:01	2 (1)	DQA1*03:03:01	52(32)
DRB1*04:01:01G	8 (5)	DRB1*15:01:01	46(30)	DRB4*01:01:01G	10(5)	DRB5*01:01:01G	11(6)	DQA1*01:02:01	54(33)	DQA1*03:01:01	2 (1)
DRB1*04:01P	8 (5)	DRB1*15:01:01G	8 (5)	DRB4*01:01P	20(10)	DRB5*01:01P	13(7)	DQA1*01:02:01G	3 (2)	DQA1*03:01:01G	3 (2)
DRB1*04:01	40(27)	DRB1*15:01P	6 (4)	DRB4*01:03	29(15)	DRB5*01:01	34(18)	DQA1*01:02P	2 (1)	DQA1*03:01P	3 (2)
DRB1*04	100(54)	DRB1*15:01	39(26)	DRB4*01:01	2 (1)	DRB5*01	83(29)	DQA1*01:02	39(24)	DQA1*03:03	36(22)
		DRB1*15	100(54)	DRB4*01	80(28)	DRB5*PRESENT	17(6)	DQA1*01	100(46)	DQA1*03:02	2 (1)
				DRB4*PRESENT	20(7)					DQA1*03:01	2 (1)
										DQA1*03	100(46)
DQB1				DPA1				DPB1			
68 labs High / 53 labs Low		% (n)		55 labs High / 32 labs Low		% (n)		64 labs High / 33 labs Low		% (n)	
DQB1*03:01:01:01	2 (1)	DQB1*06:02:01	44(30)	DPA1*01:03:01:04	4 (2)	DPA1*02:02:02	2 (1)	DPB1*05:01:01	45(29)	DPB1*23:01:01:01	6 (4)
DQB1*03:01:01	44(30)	DQB1*06:02:01G	4 (3)	DPA1*01:03:01	47(26)	DPA1*02:02:02G	5 (3)	DPB1*05:01:01G	11(7)	DPB1*23:01:01	47(30)
DQB1*03:01:01G	9 (6)	DQB1*06:02P	6 (4)	DPA1*01:03:01G	4 (2)	DPA1*02:02P	2 (1)	DPB1*05:01P	8 (5)	DPB1*23:01:01G	6 (3)
DQB1*03:01P	3 (2)	DQB1*06:02	46(31)	DPA1*01:03P	6 (3)	DPA1*02:06	85(47)	DPB1*05:01	36(23)	DPB1*23:01	41(26)
DQB1*03:01	43(29)	DQB1*06	100(53)	DPA1*01:03	40(22)	DPA1*02:02	4 (2)	DPB1*05	100(33)	DPB1*23	100(33)
DQB1*03(DQ7)	60(32)			DPA1*01	100(32)	DPA1*02:07	2 (1)				
DQB1*03	40(21)					DPA1*02	100(32)				

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

[illegible]

[illegible]

Table 6. Summary of the 186th DNA Exchange (DNA #1142)

A				B				C			
65 labs High / 53 labs Low		% (n)		65 labs High / 53 labs Low		% (n)		65 labs High / 51 labs Low		% (n)	
A*02:01:01:01	5 (3)	A*11:01:01:01	3 (2)	B*51:01:01:01	3 (2)	B*58:01:01	55(36)	C*03:02:02:01	2 (1)	C*14:02:01:01	3 (2)
A*02:01:01	52(34)	A*11:01:01	52(34)	B*51:01:01	53(34)	B*58:01:01G	6 (4)	C*03:02:02	52(34)	C*14:02:01	51(33)
A*02:01:01G	6 (4)	A*11:01:01G	6 (4)	B*51:01:01G	6 (4)	B*58:01P	2 (1)	C*03:02:01	2 (1)	C*14:02:01G	6 (4)
A*02:01P	2 (1)	A*11:01P	3 (2)	B*51:01P	2 (1)	B*58:01	37(24)	C*03:02:01G	6 (4)	C*14:02P	2 (1)
A*02:01	35(23)	A*11:01	35(23)	B*51:01	37(24)	B*58	100(53)	C*03:02	38(25)	C*14:02	38(25)
A*02	100(53)	A*11	100(53)	B*51	100(53)			C*03(Cw10)	57(29)	C*14	100(51)
								C*03	43(22)		
DRB1				DRB3/4/5				DQA1			
65 labs High / 53 labs Low		% (n)		51 labs High / 33 labs Low		% (n)		56 labs High / 46 labs Low		% (n)	
DRB1*03:01:01:01	2 (1)	DRB1*15:01:01:01	2 (1)	DRB3*02:02:01:01	2 (1)	DRB5*01:01:01	47(24)	DQA1*01:02:01:01	2 (1)	DQA1*05:01:01:03	7 (4)
DRB1*03:01:01	45(29)	DRB1*15:01:01	47(30)	DRB3*02:02:01	37(19)	DRB5*01:01:01G	12(6)	DQA1*01:02:01	59(33)	DQA1*05:01:01:01	2 (1)
DRB1*03:01:01G	9 (6)	DRB1*15:01:01G	9 (6)	DRB3*02:02:01G	14(7)	DRB5*01:01P	10(5)	DQA1*01:02:01G	4 (2)	DQA1*05:01:01	52(29)
DRB1*03:01P	6 (2)	DRB1*15:01P	5 (3)	DRB3*02:02P	14(7)	DRB5*01:01	31(16)	DQA1*01:02	36(20)	DQA1*05:01:01G	4 (2)
DRB1*03:01	38(25)	DRB1*15:01	37(24)	DRB3*02:02	33(17)	DRB5*01	85(28)	DQA1*01	100(46)	DQA1*05:01	36(20)
DRB1*03(DR17)	57(29)	DRB1*15	100(53)	DRB3*02	88(28)	DRB5*PRESENT	12(4)			DQA1*05	100(46)
DRB1*03	43(22)			DRB3*PRESENT	12(4)	3*PRESENT	3 (1)				
DQB1				DPA1				DPB1			
66 labs High / 53 labs Low		% (n)		52 labs High / 33 labs Low		% (n)		62 labs High / 35 labs Low		% (n)	
DQB1*02:01:01	44(29)	DQB1*06:02:01	46(30)	DPA1*01:03:01:04	4 (2)	DPA1*02:02:02	56(29)	DPB1*04:01:01:01	2 (1)	DQA1*05:01:01	29(18)
DQB1*02:01:01G	11(7)	DQB1*06:02:01G	8 (5)	DPA1*01:03:01	50(26)	DPA1*02:02:02G	2 (1)	DPB1*04:01:01	29(18)	DQA1*05:01:01G	24(15)
DQB1*02:01P	3 (2)	DQB1*06:02P	4 (3)	DPA1*01:03:01G	4 (2)	DPA1*02:02P	4 (2)	DPB1*04:01:01G	24(15)	DQA1*05:01P	14(9)
DQB1*02:01	42(28)	DQB1*06:02	42(28)	DPA1*01:03P	4 (2)	DPA1*02:02	36(19)	DPB1*04:01P	13(8)	DQA1*05:01	32(20)
DQB1*02	100(53)	DQB1*06	100(53)	DPA1*01:03	38(20)	DPA1*02:07	2 (1)	DPB1*04:01	32(20)	DQA1*05	100(35)
				DPA1*01	100(33)	DPA1*02	100(33)	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 # 1137 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02G	3*03:01:01G	01:02:01	05:05:01	03:01:01G	06:04:01G	01:03:01G	02:01:01	04:01:01G	131:01:01
125	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	NT	NT	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01G	17:01:01G
138	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
144	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01P	17:01P
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	66:01P	68:02P	14:02P	53:01P	06:02P	08:02P	13:02P	13:03P	3*01:01P	3*03:01P	01:02P	05:01P	03:01P	06:04P	01:03P	02:01P	04:01P	17:01P
155	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01:02G	3*03:01:01G	01:02	05:05	03:01	06:04	01:03	02:01	04:01:01G	131:01
176	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01:01G	17:01:01G
185	66:01:01G	68:02:01G	14:02:01G	53:01:01G	06:02:01G	08:02:01G	13:02P	13:03P	3*01:01P	3*03:01P	01:02:01G	05:01:01G	03:01P	06:04P	NT	NT	04:01:01G	17:01:01G
188	66:01:01	68:02:01:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	NT	NT	01:02:01	05:05:01	03:01P	06:04P	01:03:01:04	02:01:01	04:01:01	131:01
189	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01:01G	17:01:01G
190	66:01:01	68:02:01:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01P	3*03:01P	01:02:01	05:05:01	03:01:01	06:04:01:01	01:03:01:04	02:01:01	04:01:01	131:01:01
192	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02G	3*03:01:01G	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
205	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
213	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
227	NT	NT	NT	NT	NT	NT	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
240	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01P	3*03:01P	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
245	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
258	66:01:01	68:02:01:01	14:02:01	53:01:01:01	06:02:01	08:02:01	13:02:01	13:03	3*01:01	3*03:01	01:02:01	05:05:01	03:01:01	06:04	01:03	02:01:01	04:01	131:01:01
264	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01G	02:01:01G	04:01:01	131:01:01
266	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01	3*03:01	01:02:01	05:05:01	03:01	06:04	01:03:01	02:01:01	04:01P	131:01:01
273	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	NT	NT	04:01P	17:01P
274	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02G	3*03:01:01G	01:02:01	05:05:01	03:01:01G	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
279	66:01	68:01	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
294	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	NT	NT	04:01	131:01
298	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01P	3*03:01P	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
307	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	NT	NT	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
316	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
340	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	17:01P
343	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	NT	NT	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
345	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03	NT	NT	01:02	05:05	03:01	06:04	NT	NT	04:01	131:01
353	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01	3*01:01:02	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
402	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01P	3*03:01P	01:02	05:05	03:01	06:04	01:03	02:01	04:01	17:01P
403	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03	NT	NT	NT	NT	03:01:01G	06:04:01G	NT	NT	04:01:01G	131:01:01
615	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
726	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
769	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
805	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01P	3*03:01P	01:02	05:05	03:01P	06:04P	01:03P	02:01	04:01	131:01
1189	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
1686	66:01:01:01	68:02:01:01	14:02:01	53:01:01:01	06:02:01	08:02:01:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01G	17:01:01G
2063	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
3410	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	NT	NT	NT	NT	03:01	06:04	NT	NT	04:01	131:01
3438	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01G	17:01:01G
3582	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
3614	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01:02G	3*03:01:01G	01:02	05:05	03:01	06:04	01:03	02:01	04:01:01G	17:01:01G

Table 7. Individual laboratory results for DNA # 1137 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3625	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
3849	66:01:01G	68:02:01G	14:02:01G	53:01:01G	06:02:01G	08:02:01G	13:02:01G	13:03	3*01:01:02G	3*03:01:01G	01:02:01G	05:01:01G	03:01:01G	06:04:01G	01:03:01G	02:01:01G	04:01:01G	17:01:01G
4237	66:01:01	68:02:01:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01
4345	66:01P	68:02P	14:02P	53:01P	06:02P	08:02P	13:02P	13:03P	3*01:01:02:01	3*03:01P	01:02:01:01	05:05:01:01	03:01:01:01	06:04P	01:03:01:01	02:01P	04:01:01:01	17:01P
4582	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01:01G	17:01:01G
6051	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01P	17:01P
9227	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	NT	NT	NT	NT	03:01:01	06:04:01	NT	NT	04:01:01	131:01:01
9230	66:01:01	68:02:01:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03	3*01:01	3*03:01	01:02:01	05:05:01	03:01	06:04	01:03	02:01:01	04:01	131:01:01
9231	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
9232	66:01:01:01	68:02:01:01	14:02:01	53:01:01:01	06:02:01	08:02:01:01	13:02:01	13:03:01	3*01:01:02	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01G	17:01:01G
14982	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01:02G	3*03:01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	131:01:01
Final Consensus based on High Resolution	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01

Table 8. Individual laboratory results for DNA # 1137 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
193	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
218	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	NT	NT	NT	NT	03:01:01G	06:04	NT	NT	04:01	131:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	05:05	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	13:02	13:03	NT	NT	01:02	05:05	03:01	06:04	NT	NT	NT	NT
267	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*02:02	01:02	05:05	03:01	06:04	01:03	02:01	04:01	17:01
288	66:01P	68:02P	14:02P	53:01P	06:02P	NT	13:02P	13:03P	3*01:01P	3*03:01P	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
292	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
317	66:01:01	68:02:01	14:02:01	53:01:01	06:02:01	08:02:01	13:02:01	13:03:01	3*01:01	3*01:01	01:02:01	05:05:01	03:01:01	06:04:01	01:03:01	02:01:01	04:01:01	17:01:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	05:05	03:01	06:04	NT	NT	NT	NT
1251	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
1647	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	131:01
4420	66:01	68:01	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	17:01
Final Consensus	66:01	68:02	14:02	53:01	06:02	08:02	13:02	13:03	3*01:01	3*03:01	01:02	05:05	03:01	06:04	01:03	02:01	04:01	131:01

Table 9. Individual laboratory results for DNA # 1137 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	66	68	14(B65)	53	06	08	13	13	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
134	66	68	14(B65)	53	06	08	13	13	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
144	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
147	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	01	02	04(DP401)	17
148	66	68	14	53	06	08	13	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
162	66	68	14	53	06	08	13	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
190	66	68	14(B65)	53	06	08	13	13	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
192	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	01	02	04(DP401)	131
199	26	68	14	53	06	08	13	13	NT	NT	01	05	03	06	NT	NT	NT	NT
205	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	131
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	NT	NT	NT	NT	NT	NT	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	131
228	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	66	68	14	53	06	08	13	13	3*PRESENT	NT	01	05	03	06	NT	NT	NT	NT
255	66	68	14(B65)	53	NT	NT	13	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	66	68	14	53	06	08	13	13	3*PRESENT	3*PRESENT	01	05	03	06	NT	NT	NT	NT
266	66	68	14(B65)	53	06	08	13	13	NT	NT	01	05	03(DQ7)	06	01	02	04(DP401)	17
267	66	68	14(B65)	53	06	08	13	13	3*01	3*02	01	05	03(DQ7)	06	01	02	04(DP401)	17
273	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	NT	NT	04(DP401)	17
274	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	NT	NT	NT	NT
279	NT	NT	14	53	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	66	68	14(B65)	53	06	08	13	13	NT	NT	01	05	03(DQ7)	06	01	02	04(DP401)	17
285	66	68	14	53	06	08	13	13	NT	NT	01	05	03	06	NT	NT	NT	NT
288	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	01	02	04(DP401)	131
292	66	68	14	53	06	08	13	13	NT	NT	01	05	03	06	01	02	04(DP401)	131
293	66	68	14	53	06	08	13	13	3*PRESENT	3*PRESENT	01	05	03	06	01	02	04(DP401)	04(DP402)
294	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	NT	NT	04(DP401)	131
300	66	68	14	53	06	08	13	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
304	66	68	14	53	06	08	13	13	NT	NT	01	05	03	06	NT	NT	NT	NT
305	66	68	14(B65)	53	06	08	13	13	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
307	66	68	14	53	06	08	13	13	NT	NT	01	05	03	06	NT	NT	NT	NT
310	66	68	14	53	06	08	13	13	3*PRESENT	3*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	66	68	14(B65)	53	06	08	13	13	NT	NT	01	05	03(DQ7)	06	01	02	04(DP401)	17
336	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
337	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	131
339	66	68	14(B65)	53	06	08	13	13	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
340	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
343	66	68	14	53	06	08	13	13	NT	NT	01	05	03(DQ7)	06	01	02	04(DP401)	131
345	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	01	02	NT	NT
355	66	68	14	53	06	08	13	13	NT	NT	01	05	03	06	NT	NT	NT	NT
357	66	68	14	53	06	08	13	13	NT	NT	01	05	03	06	01	02	04(DP401)	17
358	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	131
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 9. Individual laboratory results for DNA # 1137 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
732	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	NT	NT
1189	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
1251	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	05	NT	NT	NT	NT	NT	NT
3438	66	68	14(B65)	53	06	08	13	13	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
3600	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	NT	NT
3614	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
3849	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
4237	66	68	14(B65)	53	06	08	13	13	NT	NT	01	05	03(DQ7)	06	01	02	04(DP401)	17
4420	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
4545	66	68	14	53	06	08	13	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4582	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	01	02	04(DP401)	17
8050	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
9221	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	131
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	66	68	14(B65)	53	06	08	13	13	3*01	3*03	01	05	03(DQ7)	06	01	02	04(DP401)	17
9227	66	68	14	53	06	08	13	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
Final Consensus	66	68	14	53	06	08	13	13	3*01	3*03	01	05	03	06	01	02	04(DP401)	NG

Table 10. Individual laboratory results for DNA # 1138 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01G	14:01:01G	3*02:02:01G	4*01:01:01G	01:04:01	02:01:01	02:01:01G	05:03:01G	01:03:01	01:03:01	04:01:01G	04:01:01G
125	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	NT	NT	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
138	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
144	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	02:01P	32:01P	13:02P	40:02P	06:02P	15:02P	07:01P	14:01P	NT	NT	01:01P	02:01	02:01P	05:03P	01:03P	01:03P	04:01P	04:01P
155	02:01	32:01	13:02	40:02	06:02	15:02	07:01:01G	14:01:01G	3*02:02:01G	4*01:01:01G	01:04	02:01	02:02	05:03	01:03	01:03	04:01:01G	04:01:01G
176	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
185	02:01:01G	32:01:01G	13:02:01G	40:02:01G	06:02:01G	15:02:01G	07:01P	14:01P	3*02:02P	4*01:01P	01:01:01G	02:01:01G	02:01P	05:03P	NT	NT	04:01:01G	04:01:01G
188	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:01P	NT	NT	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
189	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
190	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:01P	3*02:02:01	4*01:01P	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
192	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:01:01G	3*02:02:01	4*01:01:01G	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
205	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
213	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:01P	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
227	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
240	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:01P	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
245	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
258	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01	14:54	3*02:02	4*01:03	01:04:01	02:01:01	02:02	05:03	01:03	01:03	04:01	04:01
264	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
266	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
273	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	NT	NT	04:01:01	04:01:01
274	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01G	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
279	02:01	32:01	13:02	40:02	06:02	15:02	07:01P	14:01P	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
294	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:01P	01:04	02:01	02:02	05:03	NT	NT	04:01	04:01
298	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02P	4*01:01P	01:04:01	02:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
307	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	NT	NT	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
316	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:01	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
340	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
343	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	NT	NT	NT	NT	NT	NT	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
345	02:01	32:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01	14:54	NT	NT	01:04:01	02:01:01	02:02	05:03	NT	NT	04:01	04:01
353	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
402	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02P	4*01:01P	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
403	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01G	14:01:01G	NT	NT	NT	NT	02:01:01G	05:03:01G	NT	NT	04:01:01G	04:01:01G
615	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
726	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
769	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
805	02:01	32:01	13:02	40:02	06:02	15:02	07:01:01G	14:01P	3*02:02P	4*01:01P	01:04	02:01	02:02	05:03	01:03P	01:03P	04:01	04:01
1189	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
1686	02:01:01:01	32:01:01:01	13:02:01:01	40:02:01	06:02:01:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
2063	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
3410	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	NT	NT	NT	NT	02:02	05:03	NT	NT	04:01	04:01
3438	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
3582	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
3614	02:01	32:01	13:02	40:02	06:02	15:02	07:01:01G	14:01:01G	3*02:02:01G	4*01:01:01G	01:04	02:01	02:02	05:03	01:03	01:03	04:01:01G	04:01:01G

Table 10. Individual laboratory results for DNA # 1138 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3625	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
3849	02:01:01G	32:01:01G	13:02:01G	40:02:01G	06:02:01G	15:02:01G	07:01:01G	14:01:01G	3*02:02:01G	NT	01:01:01G	02:01:01G	02:01:01G	05:03:01G	01:03:01G	01:03:01G	04:01:01G	04:01:01G
4237	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
4345	02:01:01:01	32:01P	13:02P	40:02P	06:02P	15:02:01G	07:01:01:01	14:01P	3*02:02:01:01	4*01:01:01G	01:01P	02:01	02:01P	05:03:01:01	01:03:01:01	01:03:01:01	04:01:01:01	04:01:01:01
4582	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
6051	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01P	04:01P
9227	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	NT	NT	NT	NT	02:02:01	05:03:01	NT	NT	04:01:01	04:01:01
9230	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01	14:54	3*02:02	4*01:03	01:04:01	02:01:01	02:02	05:03	01:03	01:03	04:01	04:01
9231	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
9232	02:01:01:01	32:01:01:01	13:02:01:01	40:02:01	06:02:01:01	15:02:01	07:01:01	14:54:01	3*02:02:01	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
14982	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:54:01	3*02:02:01G	4*01:03:01	01:04:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
Final Consensus based on High Resolution	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01

Table 11. Individual laboratory results for DNA # 1138 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:01:01G	NT	NT	NT	NT	02:02	05:03	NT	NT	NT	NT
193	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	NT	NT	NT	NT	02:02	05:03	NT	NT	NT	NT
218	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	NT	NT	NT	NT	02:02	05:03	NT	NT	04:01	04:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	07:01	14:54	NT	NT	01:04	02:01	02:02	05:03	NT	NT	NT	NT
267	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:01	3*02:02	4*01:01	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
288	NT	32:01P	13:02P	40:02P	06:02P	15:02P	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
292	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	NT	NT	NT	NT	02:02	05:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:04	02:01	NT	NT	NT	NT	NT	NT
313	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	NT	NT	NT	NT	02:02	05:03	NT	NT	NT	NT
317	02:01:01	32:01:01	13:02:01	40:02:01	06:02:01	15:02:01	07:01:01	14:01:01	3*02:02	4*01:01	01:01:01	02:01:01	02:02:01	05:03:01	01:03:01	01:03:01	04:01:01	04:01:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	02:01	02:02	05:03	NT	NT	NT	NT
1251	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
1647	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:01P	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
4420	02:01	32:01	13:02	40:02	06:02	15:02	07:01	NT	3*02:02	NT	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01
Final Consensus	02:01	32:01	13:02	40:02	06:02	15:02	07:01	14:54	3*02:02	4*01:03	01:04	02:01	02:02	05:03	01:03	01:03	04:01	04:01

Table 12. Individual laboratory results for DNA # 1138 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	32	13	40(B61)	06	15	07	14	3*PRESENT	4*PRESENT	NT	NT	02	05	NT	NT	NT	NT
134	02	32	13	40(B61)	06	15	07	14	NT	NT	01	02	02	05	NT	NT	NT	NT
144	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
147	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
148	02	32	13	40	06	15	07	14	NT	NT	NT	NT	02	05	NT	NT	NT	NT
162	02	32	13	40	06	15	07	14	NT	NT	NT	NT	02	05	NT	NT	NT	NT
190	02	32	13	40(B61)	06	15	07	14	3*PRESENT	4*PRESENT	NT	NT	02	05	NT	NT	NT	NT
192	02	32	13	40	06	12	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
199	02	32	13	40	06	15	07	14	NT	NT	01	02	02	05	NT	NT	NT	NT
205	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
215	NT	NT	NT	NT	NT	NT	07	14	NT	NT	NT	NT	02	05	NT	NT	NT	NT
227	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
228	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
255	02	32	13	40(B61)	NT	NT	07	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	32	13	40	06	15	07	14	3*PRESENT	4*PRESENT	01	02	02	05	NT	NT	NT	NT
266	02	32	13	40(B61)	06	15	07	14	NT	NT	01	02	02	05	01	01	04(DP401)	04(DP401)
267	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
273	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	NT	NT	04(DP401)	04(DP401)
274	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	NT	NT	NT	NT
279	NT	NT	13	40	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	02	32	13	40(B61)	06	15	07	14	NT	NT	01	02	02	05	01	01	04(DP401)	04(DP401)
285	02	32	13	40	06	15	07	14	NT	NT	01	02	02	05	NT	NT	NT	NT
288	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
292	02	32	13	40	06	15	07	14	NT	NT	01	02	02	05	01	01	04(DP401)	04(DP401)
293	02	32	13	40	06	15	07	14	3*PRESENT	4*PRESENT	01	02	02	05	01	01	04(DP401)	04(DP401)
294	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	NT	NT	04(DP401)	04(DP401)
300	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	NT	NT	NT	NT
304	02	32	13	40	06	15	07	14	NT	NT	01	02	02	05	NT	NT	NT	NT
305	02	32	13	40(B61)	06	15	07	14	NT	NT	01	02	02	05	NT	NT	NT	NT
307	02	32	13	40	06	15	07	14	NT	NT	01	02	02	05	NT	NT	NT	NT
310	02	32	13	40	12	15	07	14	3*PRESENT	4*PRESENT	NT	NT	02	05	NT	NT	NT	NT
311	02	32	13	40	06	15	07	14	3*PRESENT	4*PRESENT	01	02	02	05	NT	NT	NT	NT
318	02	32	13	40(B61)	06	15	07	14	NT	NT	01	02	02	05	01	01	04(DP401)	04(DP401)
336	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
337	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
339	02	32	13	40(B61)	06	15	07	14	3*PRESENT	4*PRESENT	NT	NT	02	05	NT	NT	NT	NT
340	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
343	02	32	13	40	06	15	NT	NT	NT	NT	NT	NT	02	05	01	01	04(DP401)	04(DP402)
345	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
355	02	32	13	40	06	15	07	14	NT	NT	01	02	02	05	NT	NT	NT	NT
357	02	32	13	40	06	15	07	14	NT	NT	01	02	02	05	01	01	04(DP401)	04(DP401)
358	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 12. Individual laboratory results for DNA # 1138 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
732	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
1189	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
1251	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	02	NT	NT	NT	NT	NT	NT
3438	02	32	13	40(B61)	06	15	07	14	NT	NT	01	02	02	05	NT	NT	NT	NT
3600	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	NT	NT
3614	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
3849	02	32	13	40(B61)	06	15	07	14	3*02	4*PRESENT	01	02	02	05	01	01	04(DP401)	04(DP401)
4237	02	32	13	40(B61)	06	15	07	14	NT	NT	01	02	02	05	01	01	04(DP401)	04(DP401)
4420	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
4545	02	32	13	40	06	15	07	14	NT	NT	NT	NT	02	05	NT	NT	NT	NT
4582	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
8050	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
9221	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	32	13	40(B61)	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)
9227	02	32	13	40	06	15	07	14	NT	NT	NT	NT	02	05	NT	NT	NT	NT
Final Consensus	02	32	13	40	06	15	07	14	3*02	4*01	01	02	02	05	01	01	04(DP401)	04(DP401)

Table 13. Individual laboratory results for DNA # 1139 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	01:03:01G	02:02:02G	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
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*01:01P	5*01:01P	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
148	02:01P	25:01P	18:01P	44:02P	05:01P	12:03P	04:01P	15:01P	4*01:01P	5*01:01P	01:02P	03:01P	03:01P	06:02P	01:03P	02:02P	05:01P	23:01
155	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	02:06	05:01:01G	23:01
176	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
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	23:01:01
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
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	23:01:01
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
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
245	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
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
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	03:03	03:01	06:02	01:03	02:06	05:01	23:01
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	23:01:01
279	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01P	4*01:03	5*01:01	01:02	03:03	03:01	06:02	01:03	02:06	05:01P	23:01
294	02:01P	25:01	18:01	44:02	05:01	12:03	04:01	15:01	NT	NT	01:02	03:03	03:01	06:02	NT	NT	05:01P	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
307	02:01:01G	25:01:01G	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
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
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
402	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:01P	5*01:01P	01:02	03:03	03:01	06:02	01:03	02:06	05:01	23:01
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	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	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	03:01:01G	06:02P	01:03P	02:06	05:01	23:01
1189	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
1686	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
2063	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
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*01:03:01	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
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	23:01:01
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

Table 13. Individual laboratory results for DNA # 1139 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
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	02:01:01G	25:01:01G	18:01:01G	44:02:01G	05:01:01G	12:03:01G	04:01:01G	15:01:01G	NT	5*01:01:01G	01:02:01G	03:01:01G	03:01:01G	06:02:01G	01:03:01G	02:02:02G	05:01:01G	23:01:01G
4237	02:01:01	25:01:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:03	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
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	01:03P	02:06	05:01P	23:01:01
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	23:01:01
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
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	23:01:01
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	23:01:01
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 14. Individual laboratory results for DNA # 1139 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	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	NT	NT
218	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	NT	NT	05:01	23:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	03:03	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:01	25:01	18:01	44:02	05:01	12:03	04:01	15:01	4*01:03	5*01:01	01:02	03:02	03:01	06:02	01:03	02:02	05:01	23:01
288	02:01P	25:01P	18:01P	44:02P	05:01P	12:03P	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
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	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	02:01:01	25:01:01	18:01:01	44:02:01	05:01:01	12:03:01	04:01:01	15:01:01	4*01:01	5*01:01	01:02:01	03:01:01	03:01:01	06:02:01	01:03:01	02:02:02	05:01:01	23:01:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	03:01	03:01	06:02	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1647	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
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	NT	NT	5*01:01	01:02	03:03	03:01	06:02	01:03	02:02	05:01	23:01
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 15. Individual laboratory results for DNA # 1139 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	25	18	44	05	12	04	15	4*PRESENT	5*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
134	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
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	02	25	18	44	05	12	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
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	25	18	44	05	12	04	15	NT	NT	01	03	03	06	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
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*01	5*01	01	03	03	06	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	02	25	18	44	05	12	04	15	4*PRESENT	5*PRESENT	01	03	03	06	NT	NT	NT	NT
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
266	02	25	18	44	05	12	04	15	NT	NT	01	03	03(DQ7)	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	NT	NT	18	44	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	02	25	18	44	05	12	04	15	NT	NT	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
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	01	02	05	23
293	02	25	18	44	05	12	04	15	4*PRESENT	5*PRESENT	01	03	03	06	01	02	05	23
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	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	02	25	18	44	05	12	04	15	NT	NT	01	03	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
310	02	25	44	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
336	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
337	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
339	02	25	18	44	05	12	04	15	4*PRESENT	5*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
340	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
343	02	25	18	44	05	12	04	15	NT	NT	01	03	03(DQ7)	06	01	02	05	23
345	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	01	02	05	23
355	02	25	18	44	05	12	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
357	02	25	18	44	05	12	04	15	NT	NT	01	03	03	06	01	02	05	23
358	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
726	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23

Table 15. Individual laboratory results for DNA # 1139 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
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
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	NT	NT	01	03	03(DQ7)	06	NT	NT	NT	NT
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*01	5*01	01	03	03(DQ7)	06	01	02	05	23
3849	02	25	18	44	05	12	04	15	4*PRESENT	5*01	01	03	03(DQ7)	06	01	02	05	23
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
4545	02	25	18	44	05	12	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4582	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	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
9221	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03(DQ7)	06	01	02	05	23
9222	02	25	18	44	NT	NT	04	15	NT	NT	01	03	03	06	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
Final Consensus	02	25	18	44	05	12	04	15	4*01	5*01	01	03	03	06	01	02	05	23

Table 16. Individual laboratory results for DNA # 1140 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01G	3*02:02:01G	5*01:01:01G	01:02:01	05:01:01	02:01:01G	06:02:01G	02:01:01G	02:02:02G	01:01:01G	17:01:01
125	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	NT	NT	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
138	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
144	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01P	17:01P
147	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02P	5*01:01P	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
148	36:01:01:01	68:02:01:01	14:02:01:03	53:01:01G	04:01:01G	08:02:01G	03:01:01G	15:03:01G	NT	NT	NT	NT	02:01:01G	06:02:01G	NT	NT	01:01:01G	17:01:01G
155	36:01	68:02	14:02	53:01	04:01	08:02	03:01:01G	15:03:01G	3*02:02:01G	5*01:01:01G	01:02	05:01	02:01	06:02	02:01	02:02	01:01:01G	17:01
176	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
185	36:01:01G	68:02:01G	14:02:01G	53:01:01G	04:01:01G	08:02:01G	03:01P	15:03P	3*02:02P	5*01:01P	01:02:01G	05:01:01G	02:01P	06:02P	NT	NT	01:01:01G	17:01:01G
188	36:01:01:01	68:02:01:01	14:02:01:03	53:01:01	04:01:01	08:02:01	03:01P	15:03:01	NT	NT	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01:03	02:02:02	01:01:01	17:01:01
189	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01:01G	17:01:01G
190	36:01:01:01	68:02:01:01	14:02:01:03	53:01:01	04:01:01	08:02:01	03:01P	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01	02:02	01:01:01	17:01:01
192	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01G	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
205	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
213	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
227	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
240	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
245	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	131:01:01	162:01:02
258	36:01:01:01	68:02:01:01	14:02:01:03	53:01:01:01	04:01:01	08:02:01	03:01	15:03:01	3*02:02	5*01:01:01	01:02:01	05:01:01	02:01	06:02	02:01:01:03	02:02:02	01:01:01	17:01:01
264	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01G	02:02:02G	01:01:01G	17:01:01G
266	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
273	36:01:01:01	68:02:01:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	NT	NT	01:01P	17:01P
274	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01G	5*01:01:01G	01:02:01	05:01:01	02:01:01	06:02:01	02:01	02:02	01:01:01	17:01:01
279	36:01	68:02	14:02	53:01	04:01	08:02	03:01P	15:03P	NT	NT	01:02	05:01	02:01	06:02	NT	NT	01:01	17:01
294	NT	NT	14:02	53:01	04:01	08:02	03:01P	15:03P	NT	NT	01:02	05:01	02:01	06:02	NT	NT	01:01P	17:01P
298	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02P	5*01:01P	01:02:01	05:01:01	02:01:01	06:02:01	02:01	02:02	01:01:01	17:01:01
307	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	NT	NT	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
316	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
340	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
343	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	NT	NT	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
345	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01	15:03:01	NT	NT	01:02:01	05:01:01	02:01	06:02	NT	NT	01:01:01	17:01:01
353	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
402	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02P	5*01:01P	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
403	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01G	15:03:01G	NT	NT	NT	NT	02:01:01G	06:02:01G	NT	NT	01:01:01G	17:01:01
615	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
805	36:01	68:02	14:02	53:01	04:01	08:02	03:01P	15:03P	3*02:02P	5*01:01	01:02	05:01	02:01:01G	06:02P	02:01	02:02	01:01	17:01
1189	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
1686	36:01:01:01	68:02:01:01	14:02:01:03	53:01:01:01	04:01:01	08:02:01:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01G	17:01:01G
2063	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
3410	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	NT	NT	NT	NT	02:01	06:02	NT	NT	01:01	17:01
3438	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01G	17:01:01G
3582	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
3614	36:01	68:02	14:02	53:01	04:01	08:02	03:01:01G	15:03:01G	3*02:02:01G	5*01:01:01G	01:02	05:01	02:01	06:02	02:01	02:02	01:01:01G	17:01:01G

Table 16. Individual laboratory results for DNA # 1140 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3625	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
3849	36:01:01G	68:02:01G	14:02:01G	53:01:01G	04:01:01G	08:02:01G	03:01:01G	15:03:01G	3*02:02:01G	5*01:01:01G	01:02:01G	05:01:01G	02:01:01G	06:02:01G	02:01:01G	02:02:02G	01:01:01G	17:01:01G
4237	36:01:01:01	68:02:01:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
4345	36:01	68:02P	14:02P	53:01P	04:01:01:01	08:02P	03:01:01:01	15:03:01:01	3*02:02:01:01	5*01:01P	01:02:01:01	05:01:01:01	02:01P	06:02P	02:01P	02:02P	01:01P	17:01P
4582	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01:01G	17:01:01G
6051	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01P	17:01P
9227	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	NT	NT	NT	NT	02:01:01	06:02:01	NT	NT	01:01:01	17:01:01
9230	36:01:01:01	68:02:01:01	14:02:01:03	53:01:01	04:01:01	08:02:01	03:01	15:03:01	3*02:02	5*01:01:01	01:02:01	05:01:01	02:01	06:02	02:01:01:03	02:02:02	01:01:01	17:01:01
9231	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01G	02:02:02G	01:01:01	17:01:01
9232	36:01:01:01	68:02:01:01	14:02:01:03	53:01:01:01	04:01:01	08:02:01:01	03:01:01	15:03:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01G	17:01:01G
14982	36:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02:01G	5*01:01:01G	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
Final Consensus based on High Resolution	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01

Table 17. Individual laboratory results for DNA # 1140 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	36:01	68:02	14:02	53:01	04:01:01G	08:02	03:01	15:03	NT	NT	NT	NT	02:01	06:02	NT	NT	NT	NT
193	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	NT	NT	NT	NT	02:01	06:02	NT	NT	NT	NT
218	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	NT	NT	NT	NT	02:01	06:02	NT	NT	01:01	17:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
288	36:01	68:02	14:02	53:01	04:04P	08:02P	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:07	01:01	17:01
292	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	NT	NT	NT	NT	02:01	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	NT	NT	NT	NT	02:01	06:02	NT	NT	NT	NT
317	36:01:01:01	68:02:01	14:02:01	53:01:01	04:01:01	08:02:01	03:01:01	15:03:01	3*02:02	5*01:01	01:02:01	05:01:01	02:01:01	06:02:01	02:01:01	02:02:02	01:01:01	17:01:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	05:01	02:01	06:02	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1647	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	17:01P
4420	36:01	68:02	14:02	53:01	04:01	08:02	03:01	NT	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01
Final Consensus	36:01	68:02	14:02	53:01	04:01	08:02	03:01	15:03	3*02:02	5*01:01	01:02	05:01	02:01	06:02	02:01	02:02	01:01	17:01

Table 18. Individual laboratory results for DNA # 1140 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	36	68	14(B65)	53	04	08	03(DR17)	15	3*PRESENT	5*PRESENT	NT	NT	02	06	NT	NT	NT	NT
134	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
144	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	36	68	14	53	04	08	03	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
190	36	68	14(B65)	53	04	08	03(DR17)	15	3*PRESENT	5*PRESENT	NT	NT	02	06	NT	NT	NT	NT
192	36	68	14	53	01	08	03	15	3*02	5*01	01	05	02	06	02	02	01	17
199	36	68	14	53	04	08	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
205	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
228	36	68	14	53	04	08	03	15	3*02	5*01	01	05	02	06	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
255	36	68	14(B65)	53	NT	NT	03(DR17)	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
266	36	68	14(B65)	53	04	08	03(DR17)	15	NT	NT	01	05	02	06	02	02	01	17
267	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
273	36	68	14	53	04	08	03	15	3*02	5*01	01	05	02	06	NT	NT	01	17
274	36	68	14	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	NT	NT	NT	NT
279	36	68	14	53	04	08	03	15	3*02	5*01	01	05	02	06	02	02	01	17
280	36	68	14(B65)	53	04	08	03(DR17)	15	NT	NT	01	05	02	06	02	02	01	17
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	36	68	14	53	04	08	03	15	3*02	5*01	01	05	02	06	02	02	01	17
292	36	68	14	53	04	08	03	15	NT	NT	01	05	02	06	02	02	01	17
293	36	68	14	53	04	08	03	15	NP	5*PRESENT	01	05	02	06	02	02	01	17
294	NT	NT	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	NT	NT	02	06	NT	NT	01	17
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	36	68	14	53	04	08	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
305	36	68	14(B65)	53	04	08	03(DR17)	15	NT	NT	01	05	02	06	NT	NT	NT	NT
307	36	68	14	53	04	08	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
310	36	68	14	53	04	12	03	15	3*PRESENT	5*PRESENT	NT	NT	02	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	36	68	14(B65)	53	04	08	03(DR17)	15	NT	NT	01	05	02	06	02	02	01	17
336	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
337	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
339	36	68	14(B65)	53	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
340	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
343	36	68	14	53	04	08	03	15	NT	NT	01	05	02	06	02	02	01	17
345	36	68	14	53	04	08	03	15	3*02	5*01	01	05	02	06	02	02	01	17
355	36	68	14	53	04	08	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
357	36	68	14	53	04	08	03	15	NT	NT	01	05	02	06	02	02	01	17
358	36	68	14	53	04	08	03	15	3*02	5*01	01	05	02	06	NT	NT	NT	NT
402	36	68	14	53	04	08	03	15	NT	NT	01	05	02	06	02	02	01	17
519	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
726	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17

Table 18. Individual laboratory results for DNA # 1140 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
732	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
1189	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
1251	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	05	NT	NT	NT	NT	NT	NT
3438	36	68	14(B65)	53	04	08	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
3600	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	NT	NT
3614	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
3849	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
4237	36	68	14(B65)	53	04	08	03(DR17)	15	NT	NT	01	05	02	06	02	02	01	17
4420	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
4545	36	68	14	53	04	08	03	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
4582	36	68	14	53	04	08	03	15	3*02	5*01	01	05	02	06	02	02	01	17
8050	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
9221	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	36	68	14(B65)	53	04	08	03(DR17)	15	3*02	5*01	01	05	02	06	02	02	01	17
9227	36	68	14	53	04	08	03	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
Final Consensus	36	68	14	53	04	08	03	15	3*02	5*01	01	05	02	06	02	02	01	17

Table 19. Individual laboratory results for DNA # 1141 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01	3*02:02:01G	NT	01:03:01	05:05:01	03:01:01G	06:03:01G	01:03:01G	01:03:01	02:01:02G	04:01:01G
125	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	NT	NT	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
138	23:17	24:02P	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
144	23:01P	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
147	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02P	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01P	04:01P
148	23:01:01G	24:02:01G	35:01:01G	41:01:01:01	04:01:01G	07:01:01G	08:04:01	13:01:01G	NT	NT	NT	NT	03:01:01G	06:03:01G	NT	NT	02:01:02G	04:01:01G
155	23:01:01G	24:02	35:01	41:01	04:01	07:01	08:04	13:01:01G	3*02:02:01G	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01:02G	04:01:01G
176	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
185	23:01:01G	24:02:01G	35:01:01G	41:01:01	04:01:01G	07:01:01G	08:04P	13:01P	3*02:02P	NP	01:03:01G	05:01:01G	03:01P	06:03P	NT	NT	02:01:02G	04:01:01G
188	23:01P	24:02P	35:01:01	41:01:01:01	04:01:01	07:01:01	08:04:01	13:01P	NT	NT	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01P	04:01P
189	23:01:01G	24:02:01G	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
190	23:01P	24:02P	35:01:01	41:01:01:01	04:01:01	07:01:01	08:04:01	13:01P	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
192	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
205	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
213	23:01P	24:02P	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
227	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
240	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
245	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
258	23:96	24:02:01	35:01:01	41:01:01:01	04:01:01	07:01:01	08:04:01	13:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03	01:03	01:03	02:01:02	04:01
264	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
266	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
273	23:01P	24:02P	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	NT	NT	02:01:02	04:01:01
274	23:17	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01G	NP	01:03:01	05:05:01	03:01:01G	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
279	23:01P	24:02P	35:01	41:01	04:01	07:01	08:04	13:01P	NT	NT	01:03	05:05	03:01	06:03	NT	NT	02:01	04:01
294	23:01P	24:02P	35:01	41:01	04:01	07:01	08:04	13:01P	NT	NT	01:03	05:05	03:01	06:03	NT	NT	02:01P	04:01P
298	23:01P	24:02P	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02P	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
307	23:01:01G	24:02:01G	35:01	41:01	04:01	07:01	08:04	13:01	NT	NT	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
316	23:01:01G	24:02:01G	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
340	23:01P	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
343	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
345	23:01P	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04	13:01	NT	NT	01:03:01	05:05:01	03:01:01	06:03	NT	NT	02:01	04:01
353	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
402	23:01P	24:02P	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02P	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
403	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04	13:01:01G	NT	NT	NT	NT	03:01:01	06:03:01G	NT	NT	02:01:02G	04:01:01G
615	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	23:01P	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
805	23:01P	24:02P	35:01	41:01	04:01	07:01	08:04	13:01P	3*02:02	NP	01:03	05:05	03:01	06:03P	01:03P	01:03P	02:01	04:01
1189	23:01P	24:02P	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
1686	23:01:01G	24:02:01G	35:01:01	41:01:01:01	04:01:01:06	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
2063	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
3410	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	NT	NT	NT	NT	03:01	06:03	NT	NT	02:01	04:01
3438	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
3582	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
3614	23:01:01G	24:02:01G	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02:01G	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01:02G	04:01:01G

Table 19. Individual laboratory results for DNA # 1141 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3625	23:17	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
3849	23:01:01G	24:02:01G	35:01:01G	41:01	04:01:01G	07:01:01G	08:04	13:01:01G	3*02:02:01G	NP	01:03:01G	05:01:01G	03:01:01G	06:03:01G	01:03:01G	01:03:01G	02:01:02G	04:01:01G
4237	23:96	24:02:01	35:01:01	41:01:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NT	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
4345	23:96	24:02P	35:01:01:01	41:01	04:01:01:01	07:01:01:01	08:04P	13:01P	3*02:02:01:01	NP	01:03:01:01	05:05:01:01	03:01:01:01	06:03P	01:03:01:01	01:03:01:01	02:01P	04:01:01:01
4582	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
6051	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	23:01P	24:02P	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01P	04:01P
9227	23:96	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	NT	NT	NT	NT	03:01:01	06:03:01	NT	NT	02:01:02	04:01:01
9230	23:01:01G	24:02:01G	35:01:01	41:01:01:01	04:01:01	07:01:01	08:04	13:01	3*02:02:01	NP	01:03:01	05:05:01	03:01	06:03	01:03	01:03	02:01:02	04:01
9231	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
9232	23:01:01G	24:02:01G	35:01:01	41:01:01:01	04:01:01:06	07:01:01	08:04:01	13:01:01	3*02:02:01	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
14982	23:01:01G	24:02:01G	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02:01G	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01:02	04:01:01
Final Consensus based on High Resolution	NG	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01

Table 20. Individual laboratory results for DNA # 1141 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	23:01:01G	24:02:01G	35:01:01G	41:01	04:01:01G	07:01	08:04	13:01	NT	NT	NT	NT	03:01:01G	06:03	NT	NT	NT	NT
193	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	NT	NT	NT	NT	03:01	06:03	NT	NT	NT	NT
218	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	NT	NT	NT	NT	03:01:01G	06:03	NT	NT	02:01	04:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	05:05	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	23:01	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
288	23:01	NT	NT	41:01	04:01P	07:01P	08:04	13:01	3*02:02	NP	01:03	05:01P	03:01	06:03	01:03	01:03	02:01	04:01
292	23:17	24:02	35:01	41:01	04:01	07:01	08:04	13:01	NT	NT	NT	NT	03:01	06:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	05:05	NT	NT	NT	NT	NT	NT
313	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	NT	NT	NT	NT	03:01	06:03	NT	NT	NT	NT
317	23:01:01	24:02:01	35:01:01	41:01:01	04:01:01	07:01:01	08:04:01	13:01:01	3*02:02	NP	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	02:01	04:01:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	05:05	03:01	06:03	NT	NT	NT	NT
1251	23:01:01G	24:02:01G	35:01:01G	41:01:01	04:01:01G	07:01:01G	08:04:01	13:01:01G	3*02:02:01G	NP	NT	NT	03:01:01G	06:03:01G	NT	NT	02:01:02G	04:01:01G
1647	23:96	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	04:01P
4420	23:01	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01
Final Consensus	NG	24:02	35:01	41:01	04:01	07:01	08:04	13:01	3*02:02	NP	01:03	05:05	03:01	06:03	01:03	01:03	02:01	04:01

Table 21. Individual laboratory results for DNA # 1141 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	23	24	35	41	04	07	08	13	3*PRESENT	NP	NT	NT	03(DQ7)	06	NT	NT	NT	NT
134	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
144	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	23	24	35	41	04	07	08	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
190	23	24	35	41	04	07	08	13	3*PRESENT	NP	NT	NT	03(DQ7)	06	NT	NT	NT	NT
192	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	01	01	02(DP201)	04(DP401)
199	23	24	35	41	04	07	08	13	NT	NT	01	05	03	06	NT	NT	NT	NT
205	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
228	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	23	24	35	41	04	07	08	13	3*PRESENT	NT	01	05	03	06	NT	NT	NT	NT
255	23	24	35	41	NT	NT	08	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
266	23	24	35	41	04	07	08	13	NT	NT	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
267	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
273	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	NT	NT	02(DP201)	04(DP401)
274	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	NT	NT	NT	NT
279	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	01	01	02(DP201)	04(DP401)
280	23	24	35	41	04	07	08	13	NT	NT	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	01	01	02(DP201)	04(DP401)
292	23	24	35	41	04	07	08	13	NT	NT	01	05	03	06	01	01	02(DP201)	04(DP401)
293	23	24	35	41	04	07	08	13	3*PRESENT	NP	01	05	03	06	01	01	02(DP201)	04(DP401)
294	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	NT	NT	02(DP201)	04(DP401)
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	06	NT	NT	NT	NT
304	23	24	35	41	04	07	08	13	NT	NT	01	05	03	06	NT	NT	NT	NT
305	23	24	35	41	04	07	08	13	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
307	23	24	35	41	04	07	08	13	NT	NT	01	05	03	06	NT	NT	NT	NT
310	02	24	35	41	04	07	08	13	3*PRESENT	NP	NT	NT	03	06	NT	NT	NT	NT
311	23	24	35	41	04	07	08	13	3*PRESENT	NP	01	05	03	06	NT	NT	NT	NT
318	23	24	35	41	04	07	08	13	NT	NT	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
336	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
337	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
339	23	24	35	41	04	07	08	13	3*PRESENT	NP	NT	NT	03(DQ7)	06	NT	NT	NT	NT
340	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	01	01	02(DP201)	04(DP401)
343	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
345	23	24	35	41	NT	NT	08	13	NT	NT	01	05	03	06	NT	NT	NT	NT
355	23	24	35	41	04	07	08	13	NT	NT	01	05	03	06	NT	NT	NT	NT
357	23	24	35	41	04	07	08	13	NT	NT	01	05	03	06	01	01	02(DP201)	04(DP401)
358	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	NT	NT	NT	NT
402	23	24	35	41	04	07	08	13	NT	NT	01	05	03	06	01	01	02(DP201)	04(DP401)
519	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
726	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)

Table 21. Individual laboratory results for DNA # 1141 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
732	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
1189	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
1251	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	05	NT	NT	NT	NT	NT	NT
3438	23	24	35	41	04	07	08	13	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
3600	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	NT	NT
3614	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
3849	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
4237	23	24	35	41	04	07	08	13	NT	NT	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
4420	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
4545	23	24	35	41	04	07	08	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4582	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	01	01	02(DP201)	04(DP401)
8050	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
9221	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	23	24	35	41	04	07	08	13	3*02	NP	01	05	03(DQ7)	06	01	01	02(DP201)	04(DP401)
9227	23	24	35	41	04	07	08	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
Final Consensus	23	24	35	41	04	07	08	13	3*02	NP	01	05	03	06	01	01	02(DP201)	04(DP401)

Table 22. Individual laboratory results for DNA # 1142 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01G	3*02:02:01G	5*01:01:01G	01:02:01	05:01:01	02:01:01G	06:02:01G	01:03:01G	02:02:02	04:01:01G	05:01:01G
125	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	NT	NT	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
138	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
144	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01P	05:01P
147	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02P	5*01:01P	01:02	05:01	02:01	06:02	01:03	02:02	04:01P	05:01P
148	02:01:01G	11:01:01G	51:01:01G	58:01:01G	03:02:01G	14:02:01G	03:01:01G	15:01:01G	NT	NT	NT	NT	02:01:01G	06:02:01G	NT	NT	04:01:01G	05:01:01G
155	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
176	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
185	02:01:01G	11:01:01G	51:01:01G	58:01:01G	03:02:01G	14:02:01G	03:01P	15:01P	3*02:02P	5*01:01P	01:02:01G	05:01:01G	02:01P	06:02P	NT	NT	04:01:01G	05:01:01G
188	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01P	15:01P	NT	NT	01:02:01	05:01:01:03	02:01:01	06:02:01	01:03:01:04	02:02:02	04:01P	05:01P
189	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01:01G	05:01:01G
190	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01P	15:01:01	3*02:02P	5*01:01:01	01:02:01	05:01:01:03	02:01:01	06:02:01	01:03:01:04	02:02:02	04:01P	05:01P
192	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01G	15:01:01	3*02:02:01G	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
205	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
213	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
227	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
239	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
240	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02P	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
245	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
258	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01	15:01	3*02:02	5*01:01:01	01:02:01	05:01:01:03	02:01	06:02	01:03	02:02	04:01	05:01
264	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01G	05:01:01G
266	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
273	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	NT	NT	04:01P	05:01P
274	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01G	5*01:01:01G	01:02:01	05:01:01	02:01:01G	06:02:01	01:03:01	02:02:02	04:01:01G	05:01:01G
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02P	5*01:01P	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01P	05:01P
307	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	NT	NT	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
316	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
340	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
343	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	NT	NT	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
345	02:01:01	11:01:01	51:01:01	58:01:01	03:02	14:02	03:01	15:01	NT	NT	01:02:01	05:01:01	02:01	06:02	NT	NT	04:01	05:01
353	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
402	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02P	5*01:01P	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
403	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01G	15:01:01G	NT	NT	NT	NT	02:01:01G	06:02:01G	NT	NT	04:01:01G	05:01:01G
615	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
805	02:01	11:01	51:01	58:01	03:02	14:02	03:01P	15:01P	3*02:02P	5*01:01	01:02	05:01	02:01:01G	06:02P	01:03P	02:02P	04:01	05:01
1189	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
1686	02:01:01:01	11:01:01:01	51:01:01:01	58:01:01	03:02:02	14:02:01:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01G	05:01:01G
2063	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
3410	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	NT	NT	NT	NT	02:01	06:02	NT	NT	04:01	05:01
3438	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01G	05:01:01G
3582	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
3614	02:01	11:01	51:01	58:01	03:02	14:02	03:01:01G	15:01:01G	3*02:02:01G	5*01:01:01G	01:02	05:01	02:01	06:02	01:03	02:02	04:01:01G	05:01:01G

Table 22. Individual laboratory results for DNA # 1142 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3625	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
3849	02:01:01G	11:01:01G	51:01:01G	58:01:01G	03:02:01G	14:02:01G	03:01:01G	15:01:01G	3*02:02:01G	5*01:01:01G	01:02:01G	05:01:01G	02:01:01G	06:02:01G	01:03:01G	02:02:02G	04:01:01G	05:01:01G
4237	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
4345	02:01:01:01	11:01P	51:01P	58:01P	03:02:02:01	14:02P	03:01:01:01	15:01:01:01	3*02:02:01:01	5*01:01P	01:02:01:01	05:01:01:01	02:01P	06:02P	01:03P	02:02P	04:01:01:01	05:01P
4582	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01:01G	05:01:01G
6051	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01P	05:01P
9227	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	NT	NT	NT	NT	02:01:01	06:02:01	NT	NT	04:01:01	05:01:01
9230	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01	15:01	3*02:02	5*01:01:01	01:02:01	05:01:01:03	02:01	06:02	01:03	02:02	04:01	05:01
9231	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01G	05:01:01G
9232	02:01:01:01	11:01:01:01	51:01:01:01	58:01:01	03:02:02	14:02:01:01	03:01:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01G	05:01:01G
14982	02:01:01	11:01:01	51:01:01	58:01:01	03:02:02	14:02:01	03:01:01	15:01:01	3*02:02:01G	5*01:01:01G	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01

Final Consensus based on High Resolution	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
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Table 23. Individual laboratory results for DNA # 1142 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
162	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	NT	NT	NT	NT	02:01	06:02	NT	NT	NT	NT
193	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	NT	NT	NT	NT	02:01	06:02	NT	NT	NT	NT
218	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	NT	NT	NT	NT	02:01	06:02	NT	NT	04:01	05:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
288	02:01P	11:01P	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:07	04:01	05:01
292	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	NT	NT	NT	NT	02:01	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	NT	NT	NT	NT	02:01	06:02	NT	NT	NT	NT
317	02:01:01	11:01:01	51:01:01	58:01:01	03:02:01	14:02:01	03:01:01	15:01:01	3*02:02	5*01:01	01:02:01	05:01:01	02:01:01	06:02:01	01:03:01	02:02:02	04:01:01	05:01:01
355	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	05:01	02:01	06:02	NT	NT	NT	NT
1251	02:01:01G	11:01:01G	51:01:01G	58:01:01G	03:02:01G	14:02:01G	03:01:01G	15:01:01G	3*02:02:01G	5*01:01:01G	NT	NT	02:01:01G	06:02:01G	NT	NT	04:01:01G	05:01:01G
1647	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
4420	02:01	11:01	51:01	58:01	03:02	14:02	03:01	NT	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01
Final Consensus	02:01	11:01	51:01	58:01	03:02	14:02	03:01	15:01	3*02:02	5*01:01	01:02	05:01	02:01	06:02	01:03	02:02	04:01	05:01

Table 24. Individual laboratory results for DNA # 1142 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*PRESENT	5*PRESENT	NT	NT	02	06	NT	NT	NT	NT
134	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
144	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02	11	51	58	03	14	03	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
190	02	11	51	58	03	14	03(DR17)	15	3*PRESENT	5*PRESENT	NT	NT	02	06	NT	NT	NT	NT
192	02	11	51	58	03	14	03	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
199	02	11	51	58	03	14	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
205	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
228	02	11	51	58	03	14	03	15	3*02	5*01	01	05	02	06	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
255	02	11	51	58	NT	NT	03(DR17)	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
266	02	11	51	58	03(Cw10)	14	03(DR17)	15	NT	NT	01	05	02	06	01	02	04(DP401)	05
267	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
273	02	11	51	58	03	14	03	15	3*02	5*01	01	05	02	06	NT	NT	04(DP401)	05
274	02	11	51	58	03	14	03(DR17)	15	3*02	5*01	01	05	02	06	NT	NT	NT	NT
279	02	11	51	58	03	14	03	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
280	02	11	51	58	03(Cw10)	14	03(DR17)	15	NT	NT	01	05	02	06	01	02	04(DP401)	05
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02	11	51	58	03	14	03	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
292	02	11	51	58	03	14	03	15	NT	NT	01	05	02	06	01	02	04(DP401)	05
293	02	11	51	58	03	14	03	15	NP	5*PRESENT	01	05	02	06	01	02	04(DP401)	05
294	02	11	51	58	03(Cw10)	14	03(DR17)	15	NT	NT	01	05	02	06	NT	NT	04(DP401)	05
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02	06	NT	NT	NT	NT
304	02	11	51	58	03	14	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
305	02	11	51	58	03(Cw10)	14	03(DR17)	15	NT	NT	01	05	02	06	NT	NT	NT	NT
307	02	11	51	58	03	14	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
310	02	11	51	58	03	14	03	15	3*PRESENT	3*PRESENT	NT	NT	02	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	11	51	58	03(Cw10)	14	03(DR17)	15	NT	NT	01	05	02	06	01	02	04(DP401)	05
336	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
337	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
339	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*PRESENT	5*PRESENT	NT	NT	02	06	NT	NT	NT	NT
340	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
343	02	11	51	58	03	14	03	15	NT	NT	01	05	02	06	01	02	04(DP401)	05
345	02	11	51	58	NT	NT	03	15	NT	NT	01	05	02	06	NT	NT	04(DP401)	05
355	02	11	51	58	03	14	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
357	02	11	51	58	03	14	03	15	NT	NT	01	05	02	06	01	02	04(DP401)	05
358	02	11	51	58	03	14	03	15	3*02	5*01	01	05	02	06	NT	NT	NT	NT
402	02	11	51	58	03	14	03	15	NT	NT	01	05	02	06	01	02	04(DP401)	05
519	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
726	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05

Table 24. Individual laboratory results for DNA # 1142 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
732	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
1189	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
1251	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	05	NT	NT	NT	NT	NT	NT
3438	02	11	51	58	03(Cw10)	14	03	15	NT	NT	01	05	02	06	NT	NT	NT	NT
3600	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	NT	NT
3614	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
3849	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
4237	02	11	51	58	03(Cw10)	14	03(DR17)	15	NT	NT	01	05	02	06	01	02	04(DP401)	05
4420	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
4545	02	11	51	58	03	14	03	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
4582	02	11	51	58	03	14	03	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
8050	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
9221	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	11	51	58	03(Cw10)	14	03(DR17)	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05
9227	02	11	51	58	03	14	03	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
Final Consensus	02	11	51	58	03	14	03	15	3*02	5*01	01	05	02	06	01	02	04(DP401)	05

Table 25. Individual laboratory results for DNA # 1137 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
144	01:01:01	01:03:05	01:01:01	01:01:01	01:01:02	01:01:19	01:02:01	02:05:01	005:02	005:02	NGS-Tx17	
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	01:03	01:01	01:01	01:01	01:01	01:02	02:05	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:24-533	
1686	01:01:01:--	01:03:05:01	01:01:01:--	01:01:01:--	01:01:02:01	01:01:19	01:02:01:05	02:05:01:01	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20
9232	01:01:01	01:03:05:01	01:01:01	01:01:01	01:01:02:01	01:01:19	01:02:01:05	02:05:01:01	005:02	005:02	NGS	

Table 26. Individual laboratory results for DNA # 1138 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
144	01:01:01	01:03:02	01:01:01	01:01:02	01:01:01	01:01:22	01:01:01	02:03:02	005:02	005:03	NGS-Tx17	
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/005:13/006/010	005:03	NGS-INH	
227	01:01	01:03	01:01	01:01	01:01	01:01	01:01	02:03	005:02	005:03	NGS-CareDx Alloseq Tx17 lot:24-533	
1686	01:01:01:--	01:03:02:--	01:01:01:08	01:01:02:10	01:01:01:01	01:01:22:01	01:01:01:01	02:03:02:01	005:02	005:03	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
9232	01:01:01	01:03:02	01:01:01:08	01:01:02:10	01:01:01:01	01:01:22:01	01:01:01:01	02:03:02	005:02	005:03	NGS	

Table 27. Individual laboratory results for DNA # 1139 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
144	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
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/01:140/01:142/01:142/01:143/01:144/01:146/01:148	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	01:02	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:24-533	
1686	01:01:01:--	01:01:01:--	01:01:01:08	01:01:01:--	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 or F*01:01:01:46
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 28. Individual laboratory results for DNA # 1140 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
144	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/005:13/006/010	003:01/005:02/005:08/005:13/006/010	NGS-INH	
227	01:01	01:03	01:01	01:03	01:01	01:04	02:05	02:10	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:24-533	
1686	01:01:01:--	01:03:02:--	01:01:01:18	01:03:01:03	01:01:02:01	01:04:04:01	02:05:01:01	02:10:01:02	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
9232	01:01:01	01:03:02	01:01:01	01:03:01:03	01:01:02:01	01:04:04:01	02:05:01:01	02:10:01:02	005:02	005:02	NGS	

Table 29. Individual laboratory results for DNA # 1141 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
144	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
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	002:01/002:03/002:06	NGS-INH	
227	01:01	01:03	01:01	01:03	01:04	01:04	DEL	DEL	002:01	002:03	NGS-CareDx Alloseq Tx17 lot:24-533	
1686	01:01:01:--	01:03:02:--	01:01:01:--	01:03:01:03	01:04:01:01	01:04:04:01	DEL	DEL	002:01	002:01	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: F*01:01:01:09 or F*01:01:01:29 or F*01:01:01:52
9232	01:01:01	01:03:02	01:01:01	01:03:01:03	01:04:01:01	01:04:04:01	DEL	DEL	002:01	002:01	NGS	

Table 30. Individual laboratory results for DNA # 1142 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
144	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
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	004:01/004:03/028/034	008:01/035/037/045N/053	NGS-INH	
227	01:03	01:03	01:01	01:01	01:01	01:01	01:01	02:07	004:01	008:01	NGS-CareDx Alloseq Tx17 lot:24-533	
1686	01:03:01:01	01:03:02:--	01:01:01:--	01:01:02:--	01:01:01:01	01:01:03:03	01:01:01:01	02:07:01:01	004:01	008:01	NGS-AlloSeq Tx17	HLA-E: E*01:03:02:01 or E*01:03:02:32 HLA-F: F*01:01:01:01 or F*01:01:01:17 or F*01:01:01:46 and F*01:01:02:09 or F*01:01:02:15 or F*01:01:02:16
9232	01:03:01:01	01:03:02	01:01:01	01:01:02:09	01:01:01:01	01:01:03:03	01:01:01:01	02:07:01:01	004:01	008:01	NGS	

DNA Exchange - 186 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
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
144	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-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	GIL-NGS	GIL-NGS	GIL-NGS
155	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
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-SSO
	INH-SBT	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	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	OL-SBT GIL-NGS		GIL-NGS	GIL-NGS	GIL-NGS	OLE-SSP GIL-NGS
189	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
190	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	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	SC-SSP SBT-SC-TBG LUM-OL-SSO	SBT-SC-TBG LUM-OL-SSO	SBT-SC-TBG LUM-OL-SSO	SBT-SC-TBG LUM-OL-SSO			SBT-SC-TBG LUM-OL-SSO		
205	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS
213	HM-NGS	HM-NGS	HM-NGS	HM-NGS	HM-NGS	HM-NGS	HM-NGS	HM-NGS	HM-NGS
218	INN-SBT	INN-SBT	INN-SBT	INN-SBT			INN-SBT		INN-SBT
227	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
239	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
240	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS
242						OLE-SSP			
245	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-SSP IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS
258	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	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
266	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
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	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	OL-SSO NGS-OL	OL-SSO NGS-OL	OL-SSP OL-SSO NGS-OL	NGS-OL	NGS-OL
279	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	OLE-SSP	OLE-SSP NGS-OMX	NGS-OMX	OLE-SSP NGS-OMX	OLE-SSP NGS-OMX
288	INN-SSP	INN-SSP	INN-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-SSP	INN-OLE-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

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
298	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
307	OL-SSP NGS-OL	NGS-OL	OL-SSP NGS-OL	NGS-OL		NGS-OL	OL-SSP NGS-OL	NGS-OL	NGS-OL
311						OLE-SSP			
313	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG			SBT-TBG		
316	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
317	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO
340	NGS-OMX	NGS-OMX	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	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	LUM-SSO		
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
769	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-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	Other-Others	PRO-SBT Other-Others	Other-Others	PRO-SBT Other-Others
1647	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
1686	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
2063	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
3410	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS			GIL-NGS		OL-SSO GIL-NGS
3438	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
3582	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3600									LS-rtPCR
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	IL-INH-NGS	IL-INH-NGS	IL-INH-NGS
4237	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS	GD-NGS	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
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
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
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

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Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
126	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG		SSP-TBG		
134	OL-SSO OLE-SSP LS-rtPCR	OL-SSO OLE-SSP LS-rtPCR	OL-SSO OLE-SSP LS-rtPCR	OL-SSO OLE-SSP LS-rtPCR	LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO OLE-SSP LS-rtPCR	LS-rtPCR	LS-rtPCR
144	Other-Others LS-rtPCR	Other-Others LS-rtPCR	Other-Others LS-rtPCR	Other-Others LS-rtPCR	Other-Others LS-rtPCR	Other-Others LS-rtPCR	Other-Others LS-rtPCR	Other-Others LS-rtPCR	Other-Others LS-rtPCR
147	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
148	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO			BAG-SSO		
162	BS-SSP	BS-SSP	BS-SSP	BS-SSP			BS-SSP		
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
215				OL-SSP			OL-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	OL-OLE-SSP	OLE-SSP	OL-OLE-SSP	OL-OLE-SSP	OL-OLE-SSP	OLE-SSP	OLE-SSP		
255	OL-SSO	OL-SSO		OL-SSO					
262	OLE-PRO-SSP	PRO-SSP	PRO-SSP	OLE-PRO-SSP	PRO-SSP	OLE-SSP	PRO-SSP		
266	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
267	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO
273	HTR-rtPCR BAG-SSO	OLE-SSP HTR-rtPCR BAG-SSO	PRO-SSP HTR-rtPCR BAG-SSO	HTR-rtPCR BAG-SSP BAG-SSO	HTR-rtPCR BAG-SSP	HTR-rtPCR BAG-SSO	HTR-rtPCR BAG-SSO		HTR-rtPCR
274	OL-SSO	OL-SSO	OL-SSO	OL-SSP OL-SSO	OL-SSO	OL-SSO	OL-SSP OL-SSO		
279	LB-SSP	LB-OLE-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP
280	LC-SSO	LC-SSO	LC-SSO	LC-SSO		LC-SSO	LC-SSO	LC-SSO	LC-SSO
285	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO		LUM-SSO	LUM-SSO		
288	INN-SSP BAG-SSO	INN-SSP BAG-SSO	INN-SSP BAG-SSO	INN-SSP	INN-SSP	INN-SSP	INN-SSP	INN-SSP	INN-SSP
292	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-SSO
293	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO
294	Other-Others 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-OLE-SSP
300	Other-Others OL-SSP	Other-Others OL-SSP	Other-Others OL-SSP	Other-Others OL-SSP	Other-Others	Other-Others	Other-Others OL-SSP		
304	GTI-SSO	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		
310	OL-SSP	OL-SSP	OL-SSP	OL-SSP	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	OL-SSO
336	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
337	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR

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CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
339	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP
340	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
343	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
345	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	LS-rtPCR IMM-SSO	OLE-SSP LS-rtPCR	LS-rtPCR	OLE-SSP LS-rtPCR
355	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO		LUM-SSO	LUM-SSO		
357	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-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	OL-SSO	OL-SSO	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	OL-OLE-SSO	OL-OLE-SSO	OL-OLE-SSO	OL-OLE-SSO	OL-OLE-SSO	OL-OLE-SSO	OL-OLE-SSO	OL-OLE-SSO	OL-OLE-SSO
3410						OL-SSO			
3438	LC-SSO	LC-SSO	LC-SSO	LC-SSO		LC-SSO	LC-SSO		
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	IMM-SSO
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK
4545	OL-SSO	Other-Others OL-SSO	OL-SSO	OL-SSO			OL-SSO		
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
9221	OLE-SSO	OLE-SSO	OLE-SSO	OLE-SSO	OLE-SSO	OLE-SSO	OLE-SSO	OLE-SSO	OLE-SSO
9222	LUM-SSO	LUM-SSO		LUM-SSO		LUM-SSO	LUM-SSO		
9225	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
9227	SSO-TEP	SSO-TEP	SSO-TEP	SSO-TEP			SSO-TEP		