

UCLA INTERNATIONAL HLA DNA EXCHANGE



183RD SUMMARY

OCTOBER 9, 2024

DNA Sample	
#1119	#1122
#1120	#1123
#1121	#1124

ANDREA ALVAREZ AND ARLENE LOCKE
 QUIHENG ZHANG, PH.D, DAVID GJERTSON, PH.D, AND ELAINE F. REED, PH.D

DNA #1119 BLACK

HLA-A		HLA-B		HLA-C							
03:01	33:03	07:02	58:01	03:02	07:02						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
13:02	15:01	3*03:01	5*01:01	01:02	01:02	06:02	06:04	01:03	02:01	04:01	17:01

The likely class II associations for this cell are DRB1*13:02-DQB1*06:04 and DRB1*15:01-DQB1*06:02, with respective frequencies of HF=0.01646 and HF=0.02712, as seen in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #1119 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9. The results for DNA #1119 HLA-E, -F, -G, -H, and MICB data can be found on Table 25.

DNA #1120 HISPANIC

HLA-A		HLA-B		HLA-C							
11:01	24:02	35:17	40:02	04:01	12:03						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
11:01	14:06	3*01:01	3*02:02	05:03	05:05	03:01	03:01	01:03	01:03	04:01	04:02

The likely class II associations in this cell are DRB1*11:01-DQB1*03:01 and DRB1*14:06-DQB1*03:01, with respective frequencies of HF=0.03751 and HF=0.02798, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1120 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12. The results for DNA #1120 HLA-E, -F, -G, -H, and MICB data can be found on Table 26.

DNA #1121 ARMENIAN

HLA-A		HLA-B		HLA-C							
02:01	02:05	41:01	49:01	07:01	07:01						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	04:01	NG

NG = Not Graded

A consensus for the second DPB1 allele could not be reached seeing as 27 participants reported DPB1*104:01:01, 13 reported DPB1*03:01:01G, 5 reported DPB1*03:01P, 17 reported DPB1*104:01, and 4 reported DPB1*03:01.

The likely class I associations for this cell are A*02:01-B*49:01-C*07:01 and A*02:05-B*41:01-C*07:01, with respective frequency of HF=0.00244 and HF=0.00050, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1121 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15. The results for DNA #1121 HLA-E, -F, -G, -H, and MICB data can be found on Table 27.



DNA Sample

#1119	#1122
#1120	#1123
#1121	#1124

DNA #1122 KOREAN

HLA-A		HLA-B		HLA-C							
24:02	32:01	27:05	44:02	01:02	05:01						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
04:03	12:01	3*02:02	4*01:03	03:01	05:05	03:01	03:02	01:03	01:03	02:01	04:01

The likely class I associations in this cell are A*24:02-B*27:05-C*01:02 and A*32:01-B*44:02-C*05:01, with respective frequencies of HF=0.00406 and HF=0.00147, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #1122 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18. The results for DNA #1122 HLA-E, -F, -G, -H, and MICB data can be found on Table 28.

DNA #1123 UNKNOWN

HLA-A		HLA-B		HLA-C							
02:01	23:01	18:01	81:01	05:01	18:01						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
03:01	13:01	3*02:02	3*02:02	01:03	05:01	02:01	06:08	03:01	03	40:01	105:01

A consensus for the DPA*03 allele could not be reached seeing as 21 participants reported DPA1*03:05:01, 14 reported DPA1*03:01:01G, 7 reported DPA1*03:01P, 7 reported DPA1*03:05, 3 reported DPA1*03:01.

The likely class II associations in this cell are DRB1*03:01-DQB1*02:01 and DRB1*13:01-DQB1*06:08, with respective frequencies of HF=0.06981 and HF=0.00228, as seen in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #1123 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21. The results for DNA #1123 HLA-E, -F, -G, -H, and MICB data can be found on Table 29.

DNA #1124 HISPANIC

HLA-A		HLA-B		HLA-C							
02:01	02:01	15:15	51:01	01:02	15:02						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
04:03	13:01	3*01:01	4*01	01:03	03:01	03:02	06:03	01:03	01:03	03:01	04:01

The consensus for the DRB3/4/5 allele could not be reached seeing as 18 participants reported DRB4*01:03:01, 6 reported DRB4*01:01:01G, 10 reported DRB4*01:01P, 15 reported DRB4*01:03, and 1 reported DRB4*01:01.

The likely class I associations in this cell are A*02:01-B*15:15-C*01:02 and A*02:01-B*51:01-C*15:02, with respective frequencies of HF=0.00448 and HF=0.00873, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1124 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24. The results for DNA #1124 HLA-E, -F, -G, -H, and MICB data can be found on Table 30.

ACKNOWLEDGMENTS:

The UCLA Immunogenetics Center would like to express our deepest thanks to One Legacy and all organ and tissue donors and their families for giving the gift of knowledge by their generous donation to the education and advancement of the study of HLA. We would also like to thank the NMDP Bioinformatics website (<https://bioinformatics.bethematchclinical.org>), the continued submission of NGS results, and the 5 participants reporting their HLA-E, -F, -G, -H, and MICB data (See Tables 25-30).

Table 1. Summary of the 183rd DNA Exchange (DNA #1119)

A				B				C			
67 labs High / 60 labs Low		% (n)		66 labs High / 60 labs Low		% (n)		66 labs High / 59 labs Low		% (n)	
A*03:01:01:01	3 (2)	A*33:03:01	55(37)	B*07:02:01:01	1 (1)	B*58:01:01	54(36)	C*03:02:02	56(37)	C*07:02:01:03	3 (2)
A*03:01:01	53(35)	A*33:03:01G	1 (1)	B*07:02:01	54(36)	B*58:01:01G	3 (2)	C*03:02:01G	2 (1)	C*07:02:01	53(35)
A*03:01:01G	3 (2)	A*33:03P	1 (1)	B*07:02:01G	1 (1)	B*58:01P	1 (1)	C*03:02P	2 (1)	C*07:02:01G	2 (1)
A*03:01	41(27)	A*33:03	37(25)	B*07:02P	1 (1)	B*58:01	41(27)	C*03:02	41(27)	C*07:02P	2 (1)
A*03	100(60)	A*33:01	4 (3)	B*07:02	41(27)	B*58	100(60)	C*03(Cw10)	46(27)	C*07:02	41(27)
		A*33	98(59)	B*07	100(60)			C*03	54(32)	C*07	100(59)
		A*31	2 (1)								

DRB1				DRB3/4/5				DQA1			
66 labs High / 60 labs Low		% (n)		55 labs High / 38 labs Low		% (n)		60 labs High / 50 labs Low		% (n)	
DRB1*13:02:01	56(36)	DRB1*15:01:01:01	1 (1)	DRB3*03:01:01	40(22)	DRB5*01:01:01:01	35(19)	DQA1*01:02:01:01	2 (1)		
DRB1*13:02P	3 (2)	DRB1*15:01:01	43(28)	DRB3*03:01:01G	7 (4)	DRB5*01:01:01:01G	14(8)	DQA1*01:02:01	55(33)		
DRB1*13:02	42(28)	DRB1*15:01:01G	6 (4)	DRB3*03:01P	9 (5)	DRB5*01:01P	9 (5)	DQA1*01:02:01G	2 (1)		
DRB1*13	100(60)	DRB1*15:01P	6 (4)	DRB3*03:01	40(22)	DRB5*01:01	42(23)	DQA1*01:02	42(25)		
		DRB1*15:01	43(28)	DRB3*01:01	4 (2)	DRB5*01	79(30)	DQA1*01	100(50)		
		DRB1*15	100(59)	DRB3*03	79(30)	DRB5*PRESENT	21(8)				
				DRB3*PRESENT	21(8)						

DQB1				DPA1				DPB1			
66 labs High / 58 labs Low		% (n)		54 labs High / 35 labs Low		% (n)		64 labs High / 33 labs Low		% (n)	
DQB1*06:02:01	32(21)	DQB1*06:04:01	34(23)	DPA1*01:03:01:02	2 (1)	DPA1*02:01:01:03	7 (4)	DPB1*04:01:01:01	2 (1)	DPB1*17:01:01:01	2 (1)
DQB1*06:02:01G	14(9)	DQB1*06:04:01G	10(7)	DPA1*01:03:01:01	2 (1)	DPA1*02:01:01	52(28)	DPB1*04:01:01	45(29)	DPB1*17:01:01	55(35)
DQB1*06:02P	12(8)	DQB1*06:04P	10(7)	DPA1*01:03:01	54(39)	DPA1*02:01:01G	2 (1)	DPB1*04:01:01G	9 (6)	DPB1*17:01:01G	3 (2)
DQB1*06:02	42(28)	DQB1*06:04	45(30)	DPA1*01:03:01G	2 (1)	DPA1*02:01P	2 (1)	DPB1*04:01P	8 (5)	DPB1*17:01P	3 (2)
DQB1*06	100(58)	DQB1*06	100(56)	DPA1*01:03P	2 (1)	DPA1*02:01	37(20)	DPB1*04:01	36(23)	DPB1*17:01	37(24)
				DPA1*01:03	39(21)	DPA1*02	100(35)	DPB1*04(DP401)	100(33)	DPB1*17	94(31)
				DPA1*01	100(35)					DPB1*131	3 (1)
										DPB1*04(DP401)	3 (1)

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

Table 2. Summary of the 183rd DNA Exchange (DNA #1120)

A				B				C			
66 labs High / 60 labs Low		% (n)		65 labs High / 60 labs Low		% (n)		66 labs High / 59 labs Low		% (n)	
A*11:01:01:01	3 (2)	A*24:02:01:01	3 (2)	B*35:17:01:01	9 (6)	B*40:02:01	59(38)	C*04:01:01	58(38)	C*12:03:01:01	3 (2)
A*11:01:01	54(36)	A*24:02:01	54(36)	B*35:17:01	49(32)	B*40:02:01G	1 (1)	C*04:01:01G	3 (2)	C*12:03:01	54(36)
A*11:01:01G	3 (2)	A*24:02:01G	3 (2)	B*35:17:01G	1 (1)	B*40:02	40(26)	C*04:01	39(26)	C*12:03:01G	3 (2)
A*11:01	39(26)	A*24:02	39(26)	B*35:17	38(25)	B*40(B61)	53(32)	C*04	100(59)	C*12:03	39(26)
A*11	100(60)	A*24	98(59)	B*35:01	1 (1)	B*40	47(28)			C*12	100(59)
		A*25	2 (1)	B*35	100(60)						

DRB1				DRB3/4/5				DQA1			
65 labs High / 59 labs Low		% (n)		54 labs High / 37 labs Low				59 labs High / 51 labs Low		% (n)	
DRB1*11:01:01	46(30)	DRB1*14:06:01	57(37)	DRB3*01:01:02	20(11)	DRB3*02:02:01	26(14)	DQA1*05:03:01:01	7 (4)	DQA1*05:05:01	59(34)
DRB1*11:01:01G	5 (3)	DRB1*14:06P	3 (2)	DRB3*01:01:02G	28(15)	DRB3*02:02:01G	31(17)	DQA1*05:03:01	52(31)	DQA1*05:01:01G	2 (1)
DRB1*11:01P	6 (4)	DRB1*14:06	38(25)	DRB3*01:01P	15(8)	DRB3*02:02P	11(6)	DQA1*05:01:01G	2 (1)	DQA1*05:01P	2 (1)
DRB1*11:01	43(28)	DRB1*14:02	1 (1)	DRB3*01:01	37(20)	DRB3*02:02	31(17)	DQA1*05:01P	2 (1)	DQA1*05:05	36(21)
DRB1*11	100(59)	DRB1*14	100(59)	DRB3*01	84(31)	DRB3*02	86(31)	DQA1*05:03	37(22)	DQA1*05:01	2 (1)
				DRB3*PRESENT	16(6)	DRB3*PRESENT	14(5)	DQA1*05	100(51)	DQA1*05	100(49)

DQB1				DPA1				DPB1			
66 labs High / 57 labs Low		% (n)		54 labs High / 36 labs Low		% (n)		63 labs High / 33 labs Low		% (n)	
DQB1*03:01:01	39(26)			DPA1*01:03:01:04	4 (2)			DPB1*04:01:01	19(12)	DPB1*04:02:01	24(15)
DQB1*03:01:01G	17(11)			DPA1*01:03:01	56(30)			DPB1*04:01:01G	29(18)	DPB1*04:02:01G	30(19)
DQB1*03:01P	3 (2)			DPA1*01:03P	2 (1)			DPB1*04:01P	23(14)	DPB1*04:02P	22(14)
DQB1*03:01	41(27)			DPA1*01:03	39(21)			DPB1*04:01	29(18)	DPB1*04:02	22(14)
DQB1*03(DQ7)	56(32)			DPA1*01	100(36)			DPB1*04(DP401)	97(32)	DPB1*59:01	2 (1)
DQB1*03	44(25)							DPB1*33	3 (1)	DPB1*04(DP402)	94(30)
										DPB1*105	3 (1)
										DPB1*59	3 (1)

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

Table 3. Summary of the 183rd DNA Exchange (DNA #1121)

A				B				C			
67 labs High / 54 labs Low		% (n)		68 labs High / 54 labs Low		% (n)		67 labs High / 54 labs Low		% (n)	
A*02:01:01:01	3 (2)	A*02:05:01:01	12(8)	B*41:01:01:01	10(7)	B*49:01:01	59(40)	C*07:01:01	57(38)	C*07:01:02:01	3 (2)
A*02:01:01	54(36)	A*02:05:01	45(30)	B*41:01:01	50(34)	B*49:01:01G	1 (1)	C*07:01:01G	1 (1)	C*07:01:02	54(36)
A*02:01:01G	3 (2)	A*02:05:01G	3 (2)	B*41:01	40(27)	B*49:01P	1 (1)	C*07:01P	1 (1)	C*07:01:01G	1 (1)
A*02:01P	1 (1)	A*02:05P	1 (1)	B*41	100(54)	B*49:01	38(26)	C*07:01	40(27)	C*07:01P	1 (1)
A*02:01	39(26)	A*02:05	39(26)			B*49	100(54)	C*07	100(54)	C*07:01	40(27)
A*02	100(54)	A*02	100(53)							C*07	100(52)
DRB1				DRB3/4/5				DQA1			
67 labs High / 54 labs Low		% (n)		55 labs High / 34 labs Low		% (n)		59 labs High / 45 labs Low		% (n)	
DRB1*03:01:01:01	1 (1)	DRB1*13:01:01	22(15)	DRB3*01:01:02:01	2 (1)	DRB3*02:02:01:01	2 (1)	DQA1*01:03:01:01	2 (1)	DQA1*05:01:01:01	7 (4)
DRB1*03:01:01	22(15)	DRB1*13:01:01G	10(7)	DRB3*01:01:02	25(14)	DRB3*02:02:01	20(11)	DQA1*01:03:01	59(35)	DQA1*05:01:01	52(31)
DRB1*03:01:01G	13(9)	DRB1*13:01P	6 (4)	DRB3*01:01:02G	27(15)	DRB3*02:02:01G	31(17)	DQA1*01:03:01G	2 (1)	DQA1*05:01:01G	2 (1)
DRB1*03:01P	10(7)	DRB1*13:01	61(41)	DRB3*01:01P	11(6)	DRB3*02:02P	16(9)	DQA1*01:03	37(22)	DQA1*05:01P	2 (1)
DRB1*03:01	52(35)	DRB1*13	100(54)	DRB3*01:01	34(19)	DRB3*02:02	31(17)	DQA1*01	100(45)	DQA1*05:01	37(22)
DRB1*03(DR17)	59(32)			DRB3*01	85(29)	DRB3*02	85(29)			DQA1*05	100(45)
DRB1*03	41(22)			DRB3*PRESENT	15(5)	DRB3*PRESENT	15(5)				
DQB1				DPA1				DPB1			
68 labs High / 52 labs Low		% (n)		55 labs High / 33 labs Low		% (n)		66 labs High / 32 labs Low		% (n)	
DQB1*02:01:01	47(32)	DQB1*06:03:01:01	3 (2)	DPA1*01:03:01:02	2 (1)			DPB1*04:01:01:01	1 (1)	DPB1*104:01:01	41(27)
DQB1*02:01:01G	4 (3)	DQB1*06:03:01	43(29)	DPA1*01:03:01:01	2 (1)			DPB1*04:01:01	35(23)	DPB1*03:01:01G	20(13)
DQB1*02:01P	4 (3)	DQB1*06:03:01G	1 (1)	DPA1*01:03:01	59(32)			DPB1*04:01:01G	20(13)	DPB1*03:01P	8 (5)
DQB1*02:01	44(30)	DQB1*06:03P	6 (4)	DPA1*01:03P	2 (1)			DPB1*04:01P	12(8)	DPB1*104:01	26(17)
DQB1*02	100(52)	DQB1*06:03	46(31)	DPA1*01:03	36(20)			DPB1*04:01	31(20)	DPB1*03:01	6 (4)
		DQB1*06	100(52)	DPA1*01	100(33)			DPB1*04(DP401)	100(32)	DPB1*03	58(18)
										DPB1*104	42(13)

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

Table 4. Summary of the 183rd DNA Exchange (DNA #1122)

A				B				C			
69 labs High / 53 labs Low		% (n)		69 labs High / 53 labs Low		% (n)		69 labs High / 51 labs Low		% (n)	
A*24:02:01:01	3 (2)	A*32:01:01:01	3 (2)	B*27:05:02	56(39)	B*44:02:01:01	4 (3)	C*01:02:01:01	3 (2)	C*05:01:01:02	3 (2)
A*24:02:01	54(37)	A*32:01:01	54(37)	B*27:05:02G	3 (2)	B*44:02:01	52(36)	C*01:02:01	54(37)	C*05:01:01	54(37)
A*24:02:01G	3 (2)	A*32:01:01G	3 (2)	B*27:05P	1 (1)	B*44:02:01G	3 (2)	C*01:02:01G	3 (2)	C*05:01:01G	3 (2)
A*02:01:01G	1 (1)	A*32:01P	1 (1)	B*27:05	36(25)	B*44:02P	1 (1)	C*01:02P	1 (1)	C*05:01P	1 (1)
A*24:02	39(27)	A*32:01	39(27)	B*27:03	1 (1)	B*44:02	38(26)	C*01:02	39(27)	C*05:01	39(27)
A*24	100(53)	A*32	100(53)	B*27:01	1 (1)	B*40:02	1 (1)	C*01	100(51)	C*05	100(51)
				B*27	100(53)	B*44	100(53)				
DRB1				DRB3/4/5				DQA1			
68 labs High / 55 labs Low		% (n)		54 labs High / 33 labs Low		% (n)		58 labs High / 45 labs Low		% (n)	
DRB1*04:03:01	48(33)	DRB1*12:01:01	46(31)	DRB3*02:02:01:01	2 (1)	DRB4*01:03:01	34(18)	DQA1*03:01:01:01	7 (4)	DQA1*05:05:01	59(34)
DRB1*04:03:01G	3 (2)	DRB1*12:01:01G	7 (5)	DRB3*02:02:01	37(20)	DRB4*01:01:01G	15(8)	DQA1*03:01:01	52(30)	DQA1*05:01:01G	2 (1)
DRB1*04:03P	6 (4)	DRB1*12:01P	9 (6)	DRB3*02:02:01G	18(10)	DRB4*01:01P	19(10)	DQA1*03:01:01G	2 (1)	DQA1*05:01P	2 (1)
DRB1*04:03	43(29)	DRB1*12:01	38(26)	DRB3*02:02P	7 (4)	DRB4*01:03	28(15)	DQA1*03:01P	2 (1)	DQA1*05:05	38(22)
DRB1*04	100(55)	DRB1*12	100(55)	DRB3*02:02	35(19)	DRB4*01:02	2 (1)	DQA1*03:01	38(22)	DQA1*05	100(45)
				DRB3*02	88(29)	DRB4*01:01	2 (1)	DQA1*03	100(45)		
				DRB3*PRESENT	12(4)	DRB4*01	88(29)				
						DRB4*PRESENT	12(4)				
DQB1				DPA1				DPB1			
68 labs High / 52 labs Low		% (n)		54 labs High / 35 labs Low		% (n)		80 labs High / 43 labs Low		% (n)	
DQB1*03:01:01:05	9 (6)	DQB1*03:02:01:01	3 (2)	DPA1*01:03:01:01	4 (2)			DPB1*02:01:02	48(31)	DPB1*04:01:01:01	2 (1)
DQB1*03:01:01:01	1 (1)	DQB1*03:02:01	43(29)	DPA1*01:03:01	57(31)			DPB1*02:01:02G	9 (6)	DPB1*04:01:01	47(30)
DQB1*03:01:01	41(28)	DQB1*03:01:01G	6 (4)	DPA1*01:03P	2 (1)			DPB1*02:01P	8 (5)	DPB1*04:01:01G	9 (6)
DQB1*03:01:01G	7 (5)	DQB1*03:01P	6 (4)	DPA1*01:03	37(20)			DPB1*02:01	34(22)	DPB1*04:01P	8 (5)
DQB1*03:01P	3 (2)	DQB1*03:02	43(29)	DPA1*01	100(35)			DPB1*03:01	1 (1)	DPB1*04:01	34(22)
DQB1*03:01	38(26)	DQB1*03(DQ8)	62(31)					DPB1*02(DP201)	97(34)	DPB1*04(DP401)	97(34)
DQB1*03(DQ7)	60(31)	DQB1*03	38(19)					DPB1*03	3 (1)	DPB1*02(DP201)	3 (1)
DQB1*03	40(21)										

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

Table 5. Summary of the 183rd DNA Exchange (DNA #1123)

A				B				C			
68 labs High / 50 labs Low		% (n)		68 labs High / 50 labs Low		% (n)		68 labs High / 47 labs Low		% (n)	
A*02:01:01:01	3 (2)	A*23:01:01:01	12(8)	B*18:01:01:01	2 (1)	B*81:01:01:01	7 (5)	C*05:01:01:01	3 (2)	C*18:01:01	53(36)
A*02:01:01	50(34)	A*23:01:01	43(29)	B*18:01:01	53(36)	B*81:01:01	47(32)	C*05:01:01	50(34)	C*18:01:01G	4 (3)
A*02:01:01G	4 (3)	A*23:01:01G	4 (3)	B*18:01:01G	4 (3)	B*81:01:01G	4 (3)	C*05:01:01G	4 (3)	C*18:01P	3 (2)
A*02:01P	3 (2)	A*23:01P	3 (2)	B*18:01P	2 (1)	B*81:01P	3 (2)	C*05:01P	3 (2)	C*18:01	40(27)
A*02:01	40(27)	A*23:01	38(26)	B*18:01	40(27)	B*81:01	38(26)	C*05:01	40(27)	C*18	98(46)
A*02	100(50)	A*23	100(50)	B*18	100(50)	B*81	100(50)	C*05	100(47)	C*06	2 (1)

DRB1				DRB3/4/5				DQA1			
83 labs High / 61 labs Low		% (n)		54 labs High / 30 labs Low		% (n)		56 labs High / 43 labs Low		% (n)	
DRB1*03:01:01	22(15)	DRB1*13:01:01	22(15)	DRB3*02:02:01	30(16)			DQA1*01:03:01	57(32)	DQA1*05:01:01:01	7 (4)
DRB1*03:01:01G	15(10)	DRB1*13:01:01G	12(8)	DRB3*02:02:01G	22(12)			DQA1*01:03:01G	2 (1)	DQA1*05:01:01	50(28)
DRB1*03:01P	10(7)	DRB1*13:01P	6 (4)	DRB3*02:02P	13(7)			DQA1*01:03P	4 (2)	DQA1*05:01:01G	2 (1)
DRB1*03:01	52(35)	DRB1*13:01	60(40)	DRB3*02:02	33(18)			DQA1*01:03	37(21)	DQA1*05:01P	4 (2)
DRB1*03(DR17)	57(29)	DRB1*13	100(51)	DRB3*02:01	2 (1)			DQA1*01	98(42)	DQA1*05:01	37(21)
DRB1*03	43(22)			DRB3*02	87(26)			DQA1*05	2 (1)	DQA1*05	100(43)
				DRB3*PRESENT	13(4)						

DQB1				DPA1				DPB1			
67 labs High / 50 labs Low		% (n)		53 labs High / 31 labs Low		% (n)		64 labs High / 30 labs Low		% (n)	
DQB1*02:01:01	43(29)	DQB1*06:08:01	55(37)	DPA1*03:01:01	58(31)	DPA1*03:05:01	40(21)	DPB1*40:01:01	20(13)	DPB1*105:01:01	42(27)
DQB1*02:01:01G	8 (5)	DQB1*06:08P	4 (3)	DPA1*03:01:01G	7 (4)	DPA1*03:01:01G	27(14)	DPB1*40:01	80(51)	DPB1*04:02:01G	12(8)
DQB1*02:01P	4 (3)	DQB1*06:08	40(27)	DPA1*03:01P	6 (3)	DPA1*03:01P	13(7)	DPB1*40	97(29)	DPB1*04:02P	6 (4)
DQB1*02:01	45(30)	DQB1*06	100(50)	DPA1*03:01	26(14)	DPA1*03:05	13(7)	DPB1*49	3 (1)	DPB1*105:01	38(24)
DQB1*02	100(50)			DPA1*01:03	2 (1)	DPA1*03:01	6 (3)			DPB1*04:02	2 (1)
				DPA1*03	97(30)	DPA1*03	100(31)			DPB1*105	76(22)
				DPA1*01	3 (1)					DPB1*71	3 (1)
										DPB1*04(DP402)	21(6)

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

Table 6. Summary of the 183rd DNA Exchange (DNA #1124)

				B				C			
<u>66 labs High / 53 labs Low</u>		% (n)		<u>67 labs High / 53 labs Low</u>		% (n)		<u>66 labs High / 50 labs Low</u>		% (n)	
A*02:01:01:01	4 (3)			B*15:15:01:01	8 (5)	B*51:01:01	54(36)	C*01:02:01:01	3 (2)	C*15:02:01:01	3 (2)
A*02:01:01	51(34)			B*15:15:01	14(9)	B*51:01:01G	4 (3)	C*01:02:01	46(30)	C*15:02:01	45(30)
A*02:01:01G	4 (3)			B*15:15	77(51)	B*51:01P	3 (2)	C*01:02:01G	8 (5)	C*15:02:01G	9 (6)
A*02:01P	2 (1)			B*15:01	1 (1)	B*51:01	39(26)	C*01:02P	6 (4)	C*15:02P	4 (3)
A*02:01	38(25)			B*15(B62)	51(27)	B*51	100(53)	C*01:02	38(25)	C*15:02	38(25)
A*02	100(53)			B*15(B75)	4 (2)			C*01	100(50)	C*15	98(49)
				B*15	45(24)					C*05	2 (1)
DRB1				DRB3/4/5				DQA1			
<u>65 labs High / 54 labs Low</u>		% (n)		<u>52 labs High / 30 labs Low</u>		% (n)		<u>55 labs High / 45 labs Low</u>		% (n)	
DRB1*04:03:01	48(31)	DRB1*13:01:01	43(28)	DRB3*01:01:02:01	2 (1)	DRB4*01:03:01	36(18)	DQA1*01:03:01	58(32)	DQA1*03:01:01:01	7 (4)
DRB1*04:03:01G	6 (4)	DRB1*13:01:01G	6 (4)	DRB3*01:01:02	38(20)	DRB4*01:01:01G	12(6)	DQA1*01:03:01G	2 (1)	DQA1*03:01:01	51(28)
DRB1*04:01P	5 (3)	DRB1*13:01P	5 (3)	DRB3*01:01:02G	13(7)	DRB4*01:01P	20(10)	DQA1*01:03P	4 (2)	DQA1*03:01:01G	2 (1)
DRB1*04:03	41(27)	DRB1*13:01	46(30)	DRB3*01:01P	8 (4)	DRB4*01:03	30(15)	DQA1*01:03	36(20)	DQA1*03:01P	4 (2)
DRB1*04	98(53)	DRB1*13	100(53)	DRB3*01:01	38(20)	DRB4*01:01	2 (1)	DQA1*01	98(44)	DQA1*03:01	36(20)
DRB1*14	2 (1)			DRB3*01	83(25)	DRB4*01	84(36)	DQA1*03	2 (1)	DQA1*03	98(44)
				DRB3*PRESENT	17(5)	DRB4*PRESENT	16(5)			DQA1*01	2 (1)
DQB1				DPA1				DPB1			
<u>65 labs High / 52 labs Low</u>		% (n)		<u>53 labs High / 33 labs Low</u>		% (n)		<u>63 labs High / 33 labs Low</u>		% (n)	
DQB1*03:02:01:01	3 (2)	DQB1*06:03:01:01	3 (2)	DPA1*01:03:01:02	2 (1)			DPB1*03:01:01	43(27)	DPB1*04:01:01	38(24)
DQB1*03:02:01	41(27)	DQB1*06:03:01	41(27)	DPA1*01:03:01	55(29)			DPB1*03:01:01G	17(11)	DPB1*04:01:01G	22(14)
DQB1*03:02:01G	8 (5)	DQB1*06:03:01G	5 (3)	DPA1*01:03P	6 (3)			DPB1*03:01P	9 (6)	DPB1*04:01P	14(9)
DQB1*03:02P	6 (4)	DQB1*06:03P	6 (4)	DPA1*01:03	38(20)			DPB1*03:01	30(19)	DPB1*04:01	25(16)
DQB1*03:02	41(27)	DQB1*06:03	45(29)	DPA1*01	100(33)			DPB1*03	97(32)	DPB1*04(DP401)	97(32)
DQB1*03(DQ8)	58(40)	DQB1*06	100(52)					DPB1*81	3 (1)	DPB1*81	3 (1)
DQB1*03	42(22)										

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

Table 7. Individual laboratory results for DNA # 1119 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4585	NT	33:03	NT	NT	NT	NT	NT	NT	3*03:01	5*01:01	01:02	NT	NT	06:04	01:03:01	02:01:01	04:01:01	17:01:01
6051	03:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01	13:02:01	15:01:01	3*03:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:04:01	01:03:01	02:01:01	04:01:01	17:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	03:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01	13:02:01	15:01:01	3*03:01:01	5*01:01:01	01:02:01	01:02:01	06:02P	06:04P	01:03:01	02:01:01	04:01:01	17:01:01
9227	03:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01	13:02:01	15:01:01	NT	NT	NT	NT	06:02:01	06:04:01	NT	NT	04:01:01	17:01:01
9230	03:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01	13:02:01	15:01	3*03:01	5*01:01	01:02:01	01:02:01	06:02	06:04	01:03	02:01:01:03	04:01	17:01:01
9231	03:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01	13:02:01	15:01:01	3*03:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:04:01	01:03:01	02:01:01	04:01:01	17:01:01
9232	03:01:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01:03	13:02:01	15:01:01	3*03:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01G	06:04:01G	01:03:01	02:01:01	04:01:01	17:01:01
14982	03:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01	13:02:01	15:01:01	3*03:01:01	5*01:01:01G	01:02:01	01:02:01	06:02:01	06:04:01	01:03:01	02:01:01	04:01:01	17:01:01
45852	03:01:01	33:03:01	07:02:01	58:01:01G	03:02:02	07:02:01	13:02:01	15:01:01	3*03:01:01G	5*01:01:01G	01:02:01	NT	06:02:01	06:04:01	01:03:01	02:01:01	04:01:01	17:01:01
Final Consensus based on High Resolution	03:01	33:03	07:02	58:01	03:02	07:02	13:02	15:01	3*03:01	5*01:01	01:02	01:02	06:02	06:04	01:03	02:01	04:01	17:01

Table 8. Individual laboratory results for DNA # 1119 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	03:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01	13:02:01	15:01:01	3*03:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:04:01	01:03:01:02	02:01:01:03	04:01:01	17:01:01:01
162	03:01	33:03	07:02	58:01	03:02	07:02	13:02	15:01	NT	NT	NT	NT	06:02	06:04	NT	NT	NT	NT
193	03:01	33:03	07:02	58:01	03:02	07:02	13:02	15:01	NT	NT	NT	NT	06:02	06:04	NT	NT	04:01	17:01
207	03:01:01	33:03:01	07:02:01	58:01:01	03:02:02	07:02:01	13:02:01	15:01:01	3*03:01:01	5*01:01:01	01:02:01	01:02:01	06:02:01	06:04:01	01:03:01	02:01:01	04:01:01	17:01:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	13:02	15:01	NT	NT	01:02	01:02	06:02	06:04	NT	NT	NT	NT
288	03:01	33:03	07:02	58:01	03:02	07:02	13:02	15:01	3*03:01	5*01:01	01:02	01:02	06:02	06:04	01:03	02:01	04:01	17:01
292	03:01	33:03	07:02	58:01	03:02	07:02	13:02	15:01	NT	NT	NT	NT	06:02	06:04	NT	NT	NT	NT
313	03:01	33:03	07:02	58:01	03:02	07:02	13:02	15:01	NT	NT	NT	NT	06:02	06:04	NT	NT	NT	NT
317	03:01	33:01	07:02	58:01	03:02	07:02	13:02	15:01	3*03:01	5*01:01	01:02	01:02	06:02	06:04	01:03	02:01	04:01	17:01
346	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	17:01P
4420	03:01	33:03	07:02	58:01	03:02	07:02	13:02	NT	3*03:01	5*01:01	01:02	01:02	06:02	06:04	01:03	02:01	04:01	17:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	03:01	33:03	07:02	58:01	03:02	07:02	13:02	15:01	3*03:01	5*01:01	01:02	01:02	06:02	06:04	01:03	02:01	04:01	17:01

Table 9. Individual laboratory results for DNA # 1119 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	NT	NT	NT	NT
144	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
147	03	33	07	58	03	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
148	03	33	07	58	03	07	13	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
158	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
162	03	33	07	58	03	07	13	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
188	03	33	07	58	03	07	13	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
190	03	33	07	58	03	07	13	15	3*PRESENT	5*PRESENT	NT	NT	06	06	NT	NT	NT	NT
192	03	33	07	58	03	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
199	03	33	07	58	03	07	13	15	NT	NT	01	04	06		NT	NT	NT	NT
205	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
207	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
215	03	33	07	58	03	07	13	15	3*PRESENT	5*PRESENT	NT	NT	06	06	NT	NT	NT	NT
227	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
242	03	33	07	58	03	07	13	15	3*PRESENT	5*PRESENT	01	NT	06	NT	NT	NT	NT	NT
244	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	NT	NT	NT	NT
245	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
252	03	33	07	58	03	07	13	15	3*PRESENT	5*PRESENT	01	01	06	06	NT	NT	NT	NT
255	03	33	07	58	NT	NT	13	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	03	33	07	58	03	07	13	15	3*PRESENT	5*PRESENT	01	01	06	06	NT	NT	NT	NT
265	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
266	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	01	02	04(DP401)	17
267	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
279	NT	NT	NT	NT	03	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	03	31	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
285	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	03	33	07	58	03	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
292	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	NT	NT	NT	NT
293	03	33	07	58	03	07	13	15	3*PRESENT	5*PRESENT	01	01	06	06	01	02	04(DP401)	04(DP401)
294	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	NT	NT	NT	NT
300	03	33	07	58	03	07	13	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
304	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	NT	NT	NT	NT
305	03	33	07	58	03(Cw10)	07	13	15	NT	NT	01	01	06	06	NT	NT	NT	NT
311	03	33	07	58	03	07	13	15	3*PRESENT	5*PRESENT	01	01	06	06	NT	NT	NT	NT
318	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	01	02	04(DP401)	17
334	03	33	07	58	03(Cw10)	07	13	15	NT	NT	01	01	06	06	01	02	04(DP401)	17
336	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
339	03	33	07	58	03(Cw10)	07	13	15	3*PRESENT	5*PRESENT	NT	NT	06	06	NT	NT	NT	NT
340	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
343	03	33	07	58	03	07	13	NT	NT	NT	01	01	06	06	01	02	04(DP401)	131
345	03	33	07	58	03	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
346	03	33	07	58	NT	NT	13	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	NT	NT
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
1189	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
1251	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
1647	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17

Table 9. Individual laboratory results for DNA # 1119 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	NT	NT	NT	NT	NT	NT
3438	03	33	07	58	03	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
3600	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	NT	NT
4420	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
4545	03	33	07	58	03	07	13	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
4582	03	33	07	58	03	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
4585	03	33	07	58	03	07	13	15	3*03	5*01	01	NT	06	06	01	02	04(DP401)	17
8050	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
8092	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
8139	03	33	07	58	03	07	13	15	NT	NT	01	01	06	06	NT	NT	NT	NT
9221	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	03	33	07	58	03(Cw10)	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17
9227	03	33	07	58	03	07	13	15	NT	NT	NT	NT	06	06	NT	NT	NT	NT
9231	03	33	07	58	03(Cw10)	07	13	15	NT	NT	01	01	06	06	01	02	04(DP401)	17
Final Consensus	03	33	07	58	03	07	13	15	3*03	5*01	01	01	06	06	01	02	04(DP401)	17

Table 10. Individual laboratory results for DNA # 1120 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:03:01	NT	NT	NT	01:03:01	NT	NT	NT
6051	11:01:01	24:02:01	35:17:01	40:02:01	04:01:01	12:03:01	11:01:01	14:06:01	3*01:01:02	3*02:02:01	05:03:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:01:01	04:02:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	11:01:01	24:02:01	35:17:01	40:02:01	04:01:01	12:03:01	11:01:01	14:06:01	3*01:01:02G	3*02:02:01G	05:03:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:01P	04:02P
9227	11:01:01	24:02:01	35:17:01	40:02:01	04:01:01	12:03:01	11:01:01	14:06:01	NT	NT	NT	NT	03:01:01	03:01:01	NT	NT	04:01:01	04:02:01
9230	11:01:01	24:02:01	35:17:01:01	40:02:01	04:01:01	12:03:01	11:01	14:06:01	3*01:01	3*02:02:01	05:03:01:01	05:05:01	03:01	03:01:01	01:03	01:03:01	04:01	04:02:01
9231	11:01:01	24:02:01	35:17:01	40:02:01	04:01:01	12:03:01	11:01:01	14:06:01	3*01:01:02	3*02:02:01	05:03:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:01:01G	04:02:01G
9232	11:01:01:01	24:02:01:01	35:17:01:01	40:02:01	04:01:01	12:03:01:01	11:01:01	14:06:01	3*01:01:02G	3*02:02:01G	05:03:01	05:05:01	03:01:01G	03:01:01G	01:03:01	01:03:01	04:01:01G	04:02:01G
14982	11:01:01	24:02:01	35:17:01	40:02:01	04:01:01	12:03:01	11:01:01	14:06:01	3*01:01:02G	3*02:02:01G	05:03:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:01:01G	04:02:01G
45852	11:01:01	24:02:01	35:17:01	40:02:01	04:01:01	12:03:01	11:01:01	14:06:01	3*01:01:02G	3*02:02:01G	05:03:01	05:05:01	03:01:01G	NT	01:03:01	NT	04:01:01G	04:02:01G
Final Consensus based on High Resolution	11:01	24:02	35:17	40:02	04:01	12:03	11:01	14:06	3*01:01	3*02:02	05:03	05:05	03:01	03:01	01:03	01:03	04:01	04:02

Table 11. Individual laboratory results for DNA # 1120 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	11:01:01	24:02:01	35:17:01	40:02:01	04:01:01	12:03:01	11:01:01	14:06:01	3*01:01:02	3*02:02:01	05:03:01	05:05:01	03:01:01	03:01:01	01:03:01:04	01:03:01	04:01:01	04:02:01
162	11:01	24:02	35:17	40:02	04:01	12:03	11:01	14:06	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
193	11:01	24:02	35:17	40:02	04:01	12:03	11:01	14:06	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
207	11:01:01	24:02:01	35:17:01	40:02:01	04:01:01	12:03:01	11:01:01	14:06:01	3*01:01:02	3*02:02:01	05:03:01	05:05:01	03:01:01G	03:01:01G	01:03:01	01:03:01	04:01P	04:02P
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:03	05:05	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	11:01	14:02	NT	NT	05:03	05:05	03:01	03:01	NT	NT	NT	NT
288	11:01	24:02	35:17	40:02	04:01	12:03	11:01	14:06	3*01:01	3*02:02	05:03	05:05	03:01	03:01	01:03	01:03	04:01	59:01
292	11:01	24:02	35:17	40:02	04:01	12:03	11:01	14:06	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
313	11:01	24:02	35:17	40:02	04:01	12:03	11:01	14:06	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
317	11:01	24:02	35:17	40:02	04:01	12:03	11:01	14:06	3*01:01	3*02:02	05:03	05:01	03:01	03:01	01:03	01:03	04:01	04:02
346	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
4420	11:01	24:02	35:01	40:02	04:01	12:03	NT	NT	3*01:01	3*02:02	05:03	05:05	03:01	03:01	01:03	01:03	04:01	04:02
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02:01G
Final Consensus	11:01	24:02	35:17	40:02	04:01	12:03	11:01	14:06	3*01:01	3*02:02	05:03	05:05	03:01	03:01	01:03	01:03	04:01	04:02

Table 12. Individual laboratory results for DNA # 1120 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	11	24	35	40(B61)	04	12	11	14	NT	NT	05	05	03(DQ7)	03(DQ7)	NT	NT	NT	NT
144	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
147	11	24	35	40	04	12	11	14	3*01	3*02	05	05	03	03	01	01	04(DP401)	04(DP402)
148	11	24	35	40	04	12	11	14	NT	NT	NT	NT	03	03	NT	NT	NT	NT
158	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
162	11	24	35	40	04	12	11	14	NT	NT	NT	NT	03	03	NT	NT	NT	NT
188	11	24	35	40	04	12	11	14	NT	NT	NT	NT	03	03	NT	NT	NT	NT
190	11	24	35	40	04	12	11	14	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	03(DQ7)	NT	NT	NT	NT
192	11	24	35	40	04	12	11	14	3*01	3*02	05	05	03	03	01	01	04(DP401)	04(DP402)
199	11	25	35	40	04	12	11	14	NT	NT	05		03	06	NT	NT	NT	NT
205	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
207	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
242	11	24	35	40	04	12	11	14	3*PRESENT	NT	05	05	03	NT	NT	NT	NT	NT
244	11	24	35	40	04	12	11	14	NT	NT	05	05	03	03	NT	NT	NT	NT
245	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
252	11	24	35	40	04	12	11	14	3*PRESENT	3*PRESENT	05	05	03	03	NT	NT	NT	NT
255	11	24	35	40(B61)	NT	NT	11	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	11	24	35	40	04	12	11	14	3*PRESENT	3*PRESENT	05	05	03	03	NT	NT	NT	NT
265	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
266	11	24	35	40(B61)	04	12	11	14	NT	NT	05	05	03	03	01	01	04(DP401)	04(DP402)
267	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
279	NT	NT	NT	NT	04	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
285	11	24	35	40	04	12	11	14	NT	NT	05	05	03	03	NT	NT	NT	NT
286	11	24	35	40	04	12	11	14	3*01	3*02	05	NT	03	NT	01	NT	04(DP401)	04(DP402)
288	11	24	35	40	04	12	11	14	3*01	3*02	05	05	03	03	01	01	04(DP401)	59
292	11	24	35	40	04	12	11	14	NT	NT	05	05	03	03	NT	NT	NT	NT
293	11	24	35	40	04	12	11	14	3*PRESENT	3*PRESENT	05	05	03	03	01	01	33	04(DP402)
294	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	NT	NT	NT	NT
300	11	24	35	40	04	12	11	14	NT	NT	NT	NT	03	03	NT	NT	NT	NT
304	11	24	35	40	04	12	11	14	NT	NT	05	05	03	03	NT	NT	NT	NT
305	11	24	35	40(B61)	04	12	11	14	NT	NT	05	05	03(DQ7)	03(DQ7)	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	11	24	35	40	04	12	11	14	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
334	11	24	35	40(B61)	04	12	11	14	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
336	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	105
339	11	24	35	40(B61)	04	12	11	14	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	03(DQ8)	NT	NT	NT	NT
340	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
343	11	24	35	40	04	12	11	14	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
345	11	24	35	40	04	12	11	14	3*01	3*02	05	05	03	03	01	01	04(DP401)	04(DP402)
346	11	24	35	40(B61)	NT	NT	11	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	11	24	35	40	04	12	11	14	NT	NT	05	05	03	03	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	NT	NT
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03	03	01	01	04(DP401)	04(DP402)
1189	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
1251	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
1647	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)

Table 12. Individual laboratory results for DNA # 1120 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05	05	NT	NT	NT	NT	NT	NT
3438	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
3600	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	NT	NT
4420	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
4545	11	24	35	40	04	12	11	14	NT	NT	NT	NT	03	03	NT	NT	NT	NT
4582	11	24	35	40	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
4585	11	24	35	40	04	12	11	14	3*01	3*02	05	05	03	NT	01	NT	NT	NT
8050	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
8092	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	NT
8139	11	24	35	40	04	12	11	14	NT	NT	05	05	03	03	NT	NT	NT	NT
9221	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
9222	11	24	35	40	04	12	NT	NT	NT	NT	05	05	NT	NT	NT	NT	NT	NT
9225	11	24	35	40(B61)	04	12	11	14	3*01	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)
9227	11	24	35	40	04	12	11	14	NT	NT	NT	NT	03	03	NT	NT	NT	NT
9231	11	24	35	40(B61)	04	12	11	14	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP401)	04(DP402)

Final Consensus	11	24	35	40	04	12	11	14	3*01	3*02	05	05	03	03	01	01	04(DP401)	04(DP402)
-----------------	----	----	----	----	----	----	----	----	------	------	----	----	----	----	----	----	-----------	-----------

Table 13. Individual laboratory results for DNA # 1121 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4585	NT	NT	41:01:01	49:01:01	NT	NT	NT	NT	NT	NT	01:03:01	05:01:01	02:01:01	NT	01:03:01	NT	04:01:01	104:01:01
6051	02:01:01	02:05:01	41:01:01	49:01:01	07:01:01	07:01:02	03:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	04:01:01	104:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	02:05:01	41:01:01	49:01:01	07:01:01	07:01:02	03:01:01G	13:01:01G	3*01:01:02G	3*02:02:01G	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	04:01:01G	03:01:01G
9227	02:01:01	02:05:01	41:01:01	49:01:01	07:01:01	07:01:02	03:01:01	13:01:01	NT	NT	NT	NT	02:01:01	06:03:01	NT	NT	04:01:01	104:01:01
9230	02:01:01	02:05:01:01	41:01:01:01	49:01:01	07:01:01	07:01:02	03:01	13:01	3*01:01:02	3*02:02	01:03:01	05:01:01:01	02:01	06:03	01:03	01:03	04:01	104:01:01
9231	02:01:01	02:05:01	41:01:01	49:01:01	07:01:01	07:01:02	03:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	04:01:01	104:01:01
9232	02:01:01:01	02:05:01:01	41:01:01:01	49:01:01	07:01:01	07:01:02:01	03:01:01G	13:01:01G	3*01:01:02G	3*02:02:01G	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	04:01:01G	03:01:01G
14982	02:01:01	02:05:01	41:01:01	49:01:01	07:01:01	07:01:02	03:01	13:01	3*01:01:02G	3*02:02:01G	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	04:01:01	104:01:01
45852	02:01:01G	02:05:01G	41:01:01	49:01:01	07:01:01	07:01:02	03:01:01G	13:01:01G	3*01:01:02G	3*02:02:01G	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	NT	04:01:01	03:01:01G

Final Consensus based on High Resolution	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	04:01	NG
--	-------	-------	-------	-------	-------	-------	-------	-------	---------	---------	-------	-------	-------	-------	-------	-------	-------	----

Table 14. Individual laboratory results for DNA # 1121 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	02:01:01	02:05:01:01	41:01:01:01	49:01:01	07:01:01	07:01:02	03:01:01	13:01:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01:02	01:03:01	04:01:01	104:01:01
162	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	NT	NT
193	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	04:01	104:01
207	02:01:01	02:05:01	41:01:01	49:01:01	07:01:01	07:01:02	03:01	13:01	3*01:01:02	3*02:02:01	01:03:01	05:01:01	02:01:01	06:03:01	01:03:01	01:03:01	04:01:01	104:01:01
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	03:01	13:01	NT	NT	01:03	05:01	02:01	06:03	NT	NT	NT	NT
288	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	04:01	03:01
292	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	NT	NT
313	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	NT	NT	NT	NT	02:01	06:03	NT	NT	NT	NT
317	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	04:01	03:01
346	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	104:01
4420	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	04:01	03:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01:01G
Final Consensus	02:01	02:05	41:01	49:01	07:01	07:01	03:01	13:01	3*01:01	3*02:02	01:03	05:01	02:01	06:03	01:03	01:03	04:01	NG

Table 15. Individual laboratory results for DNA # 1121 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	02	02	41	49	07	07	03	13	NT	NT	NT	NT	02	06	NT	NT	03	04(DP401)
144	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	02	02	41	49	07	07	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
158	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
162	02	02	41	49	07	07	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
188	02	02	41	49	07	07	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
190	02	02	41	49	07	07	03(DR17)	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
192	02	02	41	49	07	07	03	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
199	02	NT	41	49	07	NT	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
205	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
207	NT	NT	NT	NT	07	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	02	02	41	49	07	07	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
245	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
252	02	02	41	49	07	07	03	13	3*PRESENT	3*PRESENT	01	05	02	06	NT	NT	NT	NT
255	02	02	41	49	NT	NT	03(DR17)	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	02	41	49	07	07	03	13	3*PRESENT	3*PRESENT	01	05	02	06	NT	NT	NT	NT
265	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
266	02	02	41	49	07	07	03(DR17)	13	NT	NT	01	05	02	06	01	01	03	04(DP401)
267	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
279	NT	NT	NT	NT	07	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02	02	41	49	07	07	03	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
292	02	02	41	49	07	07	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
293	02	02	41	49	07	07	03	13	3*PRESENT	3*PRESENT	01	05	02	06	01	01	03	04(DP401)
294	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	NT	NT	NT	NT
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	02	02	41	49	07	07	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
305	02	02	41	49	07	07	03(DR17)	13	NT	NT	01	05	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	02	41	49	07	07	03(DR17)	13	NT	NT	01	05	02	06	01	01	104	04(DP401)
334	02	02	41	49	07	07	03(DR17)	13	NT	NT	01	05	02	06	01	01	03	04(DP401)
336	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
339	02	02	41	49	07	07	03(DR17)	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
340	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
343	02	02	41	49	07	07	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
345	02	02	41	49	07	07	03	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
346	02	02	41	49	NT	NT	03(DR17)	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	02	41	49	07	07	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	NT	NT
726	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
732	02	02	41	49	07	07	03	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
1189	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
1251	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
1647	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)

Table 15. Individual laboratory results for DNA # 1121 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	05	NT	NT	NT	NT	NT	NT
3438	02	02	41	49	07	07	03	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
3600	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	NT	NT
4420	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
4545	02	02	41	49	07	07	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
4582	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
4585	02	02	41	49	07	NT	03	13	3*01	3*02	01	05	02	06	01	NT	104	04(DP401)
8050	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
8092	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	NT	04(DP401)
8139	02	02	41	49	07	07	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
9221	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	03	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	02	41	49	07	07	03(DR17)	13	3*01	3*02	01	05	02	06	01	01	104	04(DP401)
9227	02	02	41	49	07	07	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
9231	02	02	41	49	07	07	03(DR17)	13	NT	NT	01	05	02	06	01	01	03	04(DP401)
Final Consensus	02	02	41	49	07	07	03	13	3*01	3*02	01	05	02	06	01	01	NG	04(DP401)

Table 16. Individual laboratory results for DNA # 1122 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	24:02:01	32:01:01	27:05:02	44:02:01	01:02:01	05:01:01	04:03:01	12:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	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	24:02:01	32:01:01	27:05:02	44:02:01	01:02:01	05:01:01	04:03:01	12:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
9227	24:02:01	32:01:01	27:05:02	44:02:01	01:02:01	05:01:01	04:03:01	12:01:01	NT	NT	NT	NT	03:01:01	03:02:01	NT	NT	02:01:02	NEW
9230	24:02:01	32:01:01	27:05:02	44:02:01	01:02:01	05:01:01	04:03	12:01	3*02:02:01	4*01:03	03:01:01:01	05:05:01	03:01:01:05	03:02	01:03	01:03	02:01	04:01
9231	24:02:01	32:01:01	27:05:02	44:02:01	01:02:01	05:01:01	04:03:01	12:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
9232	24:02:01:01	32:01:01:01	27:05:02	44:02:01:01	01:02:01:01	05:01:01:02	04:03:01	12:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
14982	24:02:01	32:01:01	27:05:02	44:02:01	01:02:01	05:01:01	04:03:01	12:01:01	3*02:02:01G	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
45852	24:02:01	32:01:01	27:05:02	44:02:01	01:02:01	05:01:01	04:03:01	12:01:01	3*02:02:01G	4*01:01:01G	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	NT	02:01:02	04:01:01

Final Consensus based on High Resolution	24:02	32:01	27:05	44:02	01:02	05:01	04:03	12:01	3*02:02	NG	03:01	05:05	03:01	03:02	01:03	01:03	02:01	04:01
--	-------	-------	-------	-------	-------	-------	-------	-------	---------	----	-------	-------	-------	-------	-------	-------	-------	-------

Table 17. Individual laboratory results for DNA # 1122 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	24:02:01	32:01:01	27:05:02	44:02:01:01	01:02:01	05:01:01	04:03:01	12:01:01	3*02:02:01	4*01:03:01	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01:01	01:03:01:02	02:01:02	04:01:01
162	24:02	32:01	27:05	44:02	01:02	05:01	04:03	12:01:01G	NT	NT	NT	NT	03:01:01G	03:02	NT	NT	NT	NT
193	24:02	32:01	27:05	44:02	01:02	05:01	04:03	12:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
207	24:02:01	32:01:01	27:05:02	44:02:01	01:02:01	05:01:01	04:03:01	12:01:01	3*02:02:01	4*01:01P	03:01:01	05:05:01	03:01:01	03:02:01	01:03:01	01:03:01	02:01:02	04:01:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	24:02	32:01	27:01	44:02	01:02	05:01	04:03	12:01	3*02:02	4*01:02	03:01	05:05	03:01	03:02	01:03	01:03	03:01	04:01
292	24:02	32:01	27:05	44:02	01:02	05:01	04:03	12:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
313	24:02	32:01	27:05	44:02	01:02	05:01	04:03	12:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
317	24:02	32:01	27:03	40:02	01:02	05:01	04:03	12:01	3*02:02	4*01:01	03:01	05:05	03:01	03:02	01:03	01:03	02:01	04:01
346	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	04:01P
4420	24:02	32:01	27:05	44:02	01:02	05:01	04:03	12:01	3*02:02	NT	03:01	05:05	03:01	03:02	01:03	01:03	02:01	04:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	24:02	32:01	27:05	44:02	01:02	05:01	04:03	12:01	3*02:02	NG	03:01	05:05	03:01	03:02	01:03	01:03	02:01	04:01

Table 17. Individual laboratory results for DNA # 1122 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	24	32	27	44	01	05	04	12	NT	NT	NT	NT	03(DQ7)	03(DQ8)	NT	NT	02(DP201)	04(DP401)
144	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	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
158	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
162	24	32	27	44	01	05	04	12	NT	NT	NT	NT	03	03	NT	NT	NT	NT
188	24	32	27	44	01	05	04	12	NT	NT	NT	NT	03	03	NT	NT	NT	NT
190	24	32	27	44	01	05	04	12	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
192	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03	03	01	01	02(DP201)	04(DP401)
199	24	32	27	44	01	05	04	12	NT	NT	03	05	03		NT	NT	NT	NT
205	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
207	NT	NT	NT	NT	NT	NT	04	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	24	32	27	44	01	05	04	12	NT	NT	03	05	03	03	NT	NT	NT	NT
245	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
252	24	32	27	44	01	05	04	12	3*PRESENT	4*PRESENT	03	05	03	03	NT	NT	NT	NT
255	24	32	27	44	NT	NT	04	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
266	24	32	27	44	01	05	04	12	NT	NT	03	05	03	03	01	01	02(DP201)	04(DP401)
267	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
279	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
280	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	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
286	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03	NT	01	NT	02(DP201)	04(DP401)
288	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03	03	01	01	03	04(DP401)
292	24	32	27	44	01	05	04	12	NT	NT	03	05	03	03	NT	NT	NT	NT
293	24	32	27	44	01	05	04	12	3*PRESENT	4*PRESENT	03	05	03	03	01	01	02(DP201)	02(DP201)
294	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	NT	NT	02(DP201)	04(DP401)
300	24	32	27	44	01	05	04	12	NT	NT	NT	NT	03	03	NT	NT	NT	NT
304	24	32	27	44	01	05	04	12	NT	NT	03	05	03	03	NT	NT	NT	NT
305	24	32	27	44	01	05	04	12	NT	NT	03	05	03(DQ7)	03(DQ8)	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	24	32	27	44	01	05	04	12	NT	NT	03	05	03	03	01	01	02(DP201)	04(DP401)
334	24	32	27	44	01	05	04	12	NT	NT	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
336	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
339	NT	NT	NT	NT	NT	NT	04	12	3*PRESENT	4*PRESENT	NT	NT	03(DQ7)	03(DQ8)	NT	NT	NT	NT
340	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
343	24	32	27	44	01	05	04	12	NT	NT	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
345	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03	03	01	01	02(DP201)	04(DP401)
346	24	32	27	44	NT	NT	04	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	24	32	27	44	01	05	04	12	NT	NT	03	05	03	03	NT	NT	NT	NT
402	24	32	27	44	01	05	04	12	NT	NT	03	05	03	03	01	01	02(DP201)	04(DP401)
615	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	NT	NT
726	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
732	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
1189	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
1251	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)

Table 18. Individual laboratory results for DNA # 1122 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
1647	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	03	05	NT	NT	NT	NT	NT	NT
3438	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
3600	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	NT	NT
4420	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
4545	24	32	27	44	01	05	04	12	NT	NT	NT	NT	03	03	NT	NT	NT	NT
4582	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
8092	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
8139	24	32	27	44	01	05	04	12	NT	NT	03	05	03	03	NT	NT	NT	NT
9221	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	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	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
9227	24	32	27	44	01	05	04	12	NT	NT	NT	NT	03	03	NT	NT	NT	NT
9231	24	32	27	44	01	05	04	12	NT	NT	03	05	03(DQ7)	03(DQ8)	01	01	02(DP201)	04(DP401)
Final Consensus	24	32	27	44	01	05	04	12	3*02	4*01	03	05	03	03	01	01	02(DP201)	04(DP401)

Table 19. Individual laboratory results for DNA # 1123 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	23:01:01	18:01:01	81:01:01	05:01:01	18:01:01	03:01:01	13:01:01	3*02:02:01	3*02:02:01	01:03:01	05:01:01	02:01:01	06:08:01	03:01:01	03:05:01	40:01	105:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	23:01:01	18:01:01	81:01:01	05:01:01	18:01:01	03:01:01G	13:01:01G	3*02:02:01	3*02:02:01	01:03:01	05:01:01	02:01:01	06:08:01	03:01:01	03:05:01	40:01	105:01:01
9227	02:01:01	23:01:01	18:01:01	81:01:01	05:01:01	18:01:01	03:01:01	13:01:01	NT	NT	NT	NT	02:01:01	06:08:01	NT	NT	40:01	105:01:01
9230	02:01:01	23:01:01:01	18:01:01	81:01:01	05:01:01	18:01:01	03:01	13:01	3*02:02	3*02:02:01	01:03:01	05:01:01:01	02:01	06:08:01	03:01:01	03:01:01G	40:01	105:01:01
9231	02:01:01	23:01:01	18:01:01	81:01:01	05:01:01	18:01:01	03:01:01	13:01:01	3*02:02:01	3*02:02:01	01:03:01	05:01:01	02:01:01	06:08:01	03:01:01	03:05:01	40:01	105:01:01
9232	02:01:01:01	23:01:01:01	18:01:01	81:01:01:01	05:01:01:01	18:01:01	03:01:01G	13:01:01G	3*02:02:01	3*02:02:01	01:03:01	05:01:01	02:01:01	06:08:01	03:01:01	03:05:01	40:01:01	105:01:01
14982	02:01:01	23:01:01	18:01:01	81:01:01	05:01:01	18:01:01	03:01	13:01	3*02:02:01G	3*02:02:01G	01:03:01	05:01:01	02:01:01	06:08:01	03:01:01	03:05	40:01:01	105:01:01
45852	02:01:01	23:01:01	18:01:01	81:01:01	05:01:01	18:01:01	03:01:01G	13:01:01G	3*02:02:01G	NT	01:03:01	05:01:01	02:01:01	06:08:01	03:01:01	03:05:01	40:01:01	04:02:01G

Final Consensus based on High Resolution	02:01	23:01	18:01	81:01	05:01	18:01	03:01	13:01	3*02:02	3*02:02	01:03	05:01	02:01	06:08	03:01	NG	40:01	105:01:01
--	-------	-------	-------	-------	-------	-------	-------	-------	---------	---------	-------	-------	-------	-------	-------	----	-------	-----------

Table 20. Individual laboratory results for DNA # 1123 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	02:01:01	23:01:01:01	18:01:01	81:01:01:01	05:01:01	18:01:01	03:01:01	13:01:01	3*02:02:01	3*02:02:01	01:03:01	05:01:01	02:01:01	06:08:01	03:01:01	03:05:01	40:01:01	105:01:01
162	02:01	23:01:01G	18:01	81:01:01G	05:01	18:01	03:01	13:01	NT	NT	NT	NT	02:01	06:08	NT	NT	NT	NT
193	02:01	23:01	18:01	81:01	05:01	18:01	03:01	13:01	NT	NT	NT	NT	02:01	06:08	NT	NT	NT	NT
207	02:01:01	23:01:01	18:01:01	81:01:01	05:01:01	18:01:01	03:01	13:01	3*02:02:01	3*02:02:01	01:03:01	05:01:01	02:01:01	06:08:01	03:01:01	03:05:01	40:01:01	105:01:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02:01	23:01	18:01	81:01	05:01	18:01	03:01	13:01	3*02:01	3*02:01	01:03	05:01	02:01	06:08	03:01	03:01	40:01	105:01
292	02:01	23:01	18:01	81:01	05:01	18:01	03:01	13:01	NT	NT	NT	NT	02:01	06:08	NT	NT	NT	NT
313	02:01	23:01	18:01	81:01	05:01	18:01	03:01	13:01	NT	NT	NT	NT	02:01	06:08	NT	NT	NT	NT
317	02:01	23:01	18:01	81:01	05:01	18:01	03:01	13:01	3*02:02	3*02:02	01:03	05:01	02:01	06:08	01:03	03:01	40:01	04:02
346	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	02:01:01G	23:01:01G	18:01:01G	81:01:01G	05:01:01G	18:01:01G	03:01:01G	13:01:01G	3*02:02:01G	3*02:02:01G	NT	NT	02:01:01G	06:08:01	NT	NT	40:01	04:02:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	40:01	105:01
4420	02:01	23:01	18:01	81:01	05:01	18:01	03:01	13:01	3*02:02	3*02:02	01:03	05:01	02:01	06:08	03:01	03:01	40:01	105:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02:01G
Final Consensus	02:01	23:01	18:01	81:01	05:01	18:01	03:01	13:01	3*02:02	3*02:02	01:03	05:01	02:01	06:08	03:01	NG	40:01	105:01:01

Table 21. Individual laboratory results for DNA # 1123 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	02	23	18	81	05	18	03	13	3*02	3*02	01	05	02	06	03	03	40	105
144	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02	23	18	81	05	18	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
188	02	23	18	81	05	18	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
190	02	23	18	81	05	18	03	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
192	02	23	18	81	05	18	03	13	3*02	NT	01	05	02	06	03	03	40	04(DP402)
199	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
205	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02	06	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
245	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
252	02	23	18	81	05	18	03	13	3*PRESENT	3*PRESENT	01	05	02	06	NT	NT	NT	NT
255	02	23	18	81	NT	NT	03(DR17)	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
266	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	03	03	40	04(DP402)
267	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
279	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
280	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02	23	18	81	05	18	03	13	3*02	3*02	01	05	02	06	03	03	40	105
292	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
293	02	23	18	81	05	18	03	13	3*PRESENT	3*PRESENT	01	05	02	06	03	03	49	71
294	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	NT	NT	40	105
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
305	02	23	18	81	05	18	03	13	NT	NT	01	05	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	23	18	81	05	18	03(DR17)	13	NT	NT	01	05	02	06	03	03	40	105
334	02	23	18	81	05	18	03(DR17)	13	NT	NT	01	05	02	06	01	03	40	04(DP402)
336	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
339	NT	NT	NT	NT	NT	NT	03(DR17)	13	3*PRESENT	3*PRESENT	NT	NT	02	06	NT	NT	NT	NT
340	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	04(DP402)
343	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	03	03	40	105
345	02	23	18	81	NT	NT	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
346	02	23	18	81	NT	NT	03(DR17)	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
402	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	03	03	40	105
615	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	NT	NT
726	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
732	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	NT	NT	NT	NT
1189	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
1251	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 21. Individual laboratory results for DNA # 1123 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	05	NT	NT	NT	NT	NT	NT
3438	02	23	18	81	05	18	03	13	NT	NT	01	05	02	06	NT	NT	NT	NT
3600	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	NT	NT
4420	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
4545	02	23	18	81	05	18	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
4582	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
8092	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	NT
8139	02	23	18	81	05	06	03	13	NT	NT	05	05	02	06	NT	NT	NT	NT
9221	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	105
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	23	18	81	05	18	03(DR17)	13	3*02	3*02	01	05	02	06	03	03	40	04(DP402)
9227	02	23	18	81	05	18	03	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
9231	02	23	18	81	05	18	03(DR17)	13	NT	NT	01	05	02	06	03	03	40	04(DP402)
Final Consensus	02	23	18	81	05	18	03	13	3*02	3*02	01	05	02	06	03	03	40	NG

Table 22. Individual laboratory results for DNA # 1124 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	02:01:01	15:15	51:01:01	01:02:01	15:02:01	04:03:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9226	02:01:01	02:01:01	15:15:01	51:01:01	01:02:01	15:02:01	04:03:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	03:01P	04:01P
9227	02:01:01	02:01:01	NEW	51:01:01	01:02:01	15:02:01	04:03:01	13:01:01	NT	NT	NT	NT	03:02:01	06:03:01	NT	NT	03:01:01	04:01:01
9230	02:01:01	02:01:01	15:15	51:01:01	01:02:01	15:02:01	04:03	13:01	3*01:01:02	4*01:03	01:03:01	03:01:01:01	03:02	06:03	01:03	01:03:01	03:01:01	04:01:01
9231	02:01:01	02:01:01	15:15	51:01:01	01:02:01	15:02:01	04:03:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
9232	02:01:01:01	02:01:01:01	15:15:01:01	51:01:01	01:02:01:01	15:02:01:01	04:03:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	03:01:01G	04:01:01G
14982	02:01:01	02:01:01	15:15:01	51:01:01	01:02:01	15:02:01	04:03:01	13:01:01	3*01:01:02G	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
45852	02:01:01	NT	15:15:01	51:01:01	01:02:01G	15:02:01G	04:03:01	13:01:01	3*01:01:02G	4*01:01:01G	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	NT	03:01:01	04:01:01

Final Consensus based on High Resolution	02:01	02:01	15:15	51:01	01:02	15:02	04:03	13:01	3*01:01	NG	01:03	03:01	03:02	06:03	01:03	01:03	03:01	04:01
--	-------	-------	-------	-------	-------	-------	-------	-------	---------	----	-------	-------	-------	-------	-------	-------	-------	-------

Table 23. Individual laboratory results for DNA # 1124 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	02:01:01	02:01:01	15:15:01:01	51:01:01	01:02:01	15:02:01	04:03:01	13:01:01	3*01:01:02	4*01:03:01	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01:02	01:03:01:03	03:01:01	04:01:01
162	02:01	02:01	15:15	51:01	01:02	15:02	04:03	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
193	02:01	02:01	15:15	51:01	01:02	15:02	04:03	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	03:01	04:01
207	02:01:01	02:01:01	15:15:01	51:01:01	01:02:01	15:02:01	04:03:01	13:01:01	3*01:01:02	4*01:01P	01:03:01	03:01:01	03:02:01	06:03:01	01:03:01	01:03:01	03:01:01	04:01:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02:01	02:01	15:01	51:01	01:02	15:02	04:03	13:01	NT	NT	01:03	03:01	03:02	06:03	01:03	01:03	03:01	04:01
292	02:01	02:01	15:15	51:01	01:02	15:02	04:03	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
313	02:01	02:01	15:15	51:01	01:02	15:02	04:03	13:01	NT	NT	NT	NT	03:02	06:03	NT	NT	NT	NT
317	02:01	02:01	15:15	51:01	01:02	15:02	04:03	13:01	3*01:01	4*01:01	01:03	03:01	03:02	06:03	01:03	01:03	03:01	04:01
346	NT	NT	15:15	51:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	02:01:01G	02:01:01G	15:15	51:01:01G	01:02:01G	15:02:01G	04:03:01G	13:01:01G	3*01:01:02G	4*01:03	NT	NT	03:02:01G	06:03:01G	NT	NT	03:01:01G	04:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01P	04:01P
4420	02:01	02:01	15:15	51:01	01:02	15:02	04:03	13:01	3*01:01	NT	01:03	03:01	03:02	06:03	01:03	01:03	03:01	04:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	02:01	15:15	51:01	01:02	15:02	04:03	13:01	3*01:01	NG	01:03	03:01	03:02	06:03	01:03	01:03	03:01	04:01

Table 24. Individual laboratory results for DNA # 1124 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
134	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03	06	01	01	03	04(DP401)
144	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02	02	15	51	01	15	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
188	02	02	15	51	01	15	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
190	02	02	15	51	01	15	04	13	3*PRESENT	4*PRESENT	NT	NT	03(DQ8)	06	NT	NT	NT	NT
192	02	02	15	51	01	15	04	13	3*01	4*01	01	03	03	06	01	01	03	04(DP401)
199	02		15	51	01	15	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
205	02	02	15(B75)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	04(DP401)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
244	02	02	15	51	01	15	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
245	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
252	02	02	15	51	01	15	04	13	3*PRESENT	4*PRESENT	01	03	03	06	NT	NT	NT	NT
255	02	02	15(B62)	51	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	02	15(B75)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
266	02	02	15	51	01	15	04	13	NT	NT	01	03	03	06	01	01	03	04(DP401)
267	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
279	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
280	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	NT	15	51	01	15	04	13	3*01	4*01	01	03	03	06	01	NT	03	04(DP401)
288	02	02	15	51	01	15	04	13	NT	4*01	01	03	03	06	01	01	03	04(DP401)
292	02	02	15	51	01	15	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
293	02	02	15	51	01	15	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	81	81
294	02	02	15(B62)	51	01	15	04	13	NT	NT	01	03	03(DQ8)	06	NT	NT	03	04(DP401)
300	02	02	15	51	01	15	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
304	02	02	15	51	01	15	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
305	02	02	15(B62)	51	01	15	04	13	NT	NT	01	03	03(DQ8)	06	NT	NT	NT	NT
311	02	02	15	51	01	15	04	13	3*PRESENT	4*PRESENT	01	03	03	06	NT	NT	NT	NT
318	02	02	15(B62)	51	01	15	04	13	NT	NT	01	03	03	06	01	01	03	04(DP401)
334	02	02	15(B62)	51	01	15	04	13	NT	NT	01	03	03(DQ8)	06	01	01	03	04(DP401)
336	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
339	NT	NT	NT	NT	NT	NT	04	13	3*PRESENT	4*PRESENT	NT	NT	03(DQ8)	06	NT	NT	NT	NT
340	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
343	02	02	15	51	01	15	04	NT	NT	NT	01	03	03(DQ8)	06	01	01	03	04(DP401)
345	02	02	15	51	NT	NT	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
346	02	02	15	51	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	02	15	51	01	15	04	13	NT	NT	01	01	03	06	NT	NT	NT	NT
402	02	02	15	51	01	15	04	13	NT	NT	01	03	03	06	01	01	03	04(DP401)
615	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	NT	NT
726	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
732	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
1189	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
1251	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 24. Individual laboratory results for DNA # 1124 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3410	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	NT	NT	NT	NT	NT	NT
3438	02	02	15(B62)	51	01	15	04	13	NT	NT	01	03	03(DQ8)	06	NT	NT	NT	NT
3600	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	NT	NT
4420	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
4545	02	02	15	51	01	15	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4582	02	02	15	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
8092	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
8139	02	02	15	51	01	05	14	13	NT	NT	03	03	03	06	NT	NT	NT	NT
9221	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	02	15(B62)	51	01	15	04	13	3*01	4*01	01	03	03(DQ8)	06	01	01	03	04(DP401)
9227	02	02	15	51	01	15	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
9231	02	02	15(B62)	51	01	15	04	13	NT	NT	01	03	03(DQ8)	06	01	01	03	04(DP401)
Final Consensus	02	02	15	51	01	15	04	13	3*01	4*01	01	03	03	06	01	01	03	04(DP401)

Table 25. Individual laboratory results for DNA # 1119 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:01:01	01:03:02	01:01:02	01:03:01	01:01:01	01:04:01	02:04:01	02:08:01	004:01	008:01	CareDx Tx17 NGS	
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	004:01/004:03/028/034	008:01/035/037/045N/053	NGS-INH	
227	01:01:01	01:03:02	01:01:02	01:03:01	01:01:01	01:04:01	02:04:01	02:08:01	004:01	008:01	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:06	01:03:02:--	01:01:02:10	01:03:01:--	01:01:01:05	01:04:01:01	02:04:01	02:08:01:01	004:01	008:01	NGS-AlloSeq Tx17	HLA-E: E*01:03:02:01 or E*01:03:02:32 HLA-F: F*01:03:01:01 or F*01:03:01:04
9232	01:01:01:06	01:03:02	01:01:02:10	01:03:01	01:01:01:05	01:04:01:01	02:04:01	02:08:01:01	004:01	008:01	NGS-Tx17	

Table 26. Individual laboratory results for DNA # 1120 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:01:01	01:01:01	01:01:01	01:01:02	01:01:03	01:04:01	02:07:01	02:07:01	005:02	013:01	CareDx Tx17 NGS	
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/005:11/006/010	013:01	NGS-INH	
227	01:01:01	01:01:01	01:01:01	01:01:02	01:01:03	01:04:01	02:07:01	DEL	005:02	013:01	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:01:01:03	01:01:01:--	01:01:02:09	01:01:03:03	01:04:01:01	02:07:01:01	DEL	005:02	013:01	NGS-AlloSeq Tx17	H:A-E: E*01:01:01:01 or E*01:01:01:20 HLA-F: F*01:01:01:09 or F*01:01:01:29
9232	01:01:01	01:01:01	01:01:01:09	01:01:02:09	01:01:03:03	01:04:01:01	02:07:01:01	DEL	005:02	013:01	NGS-Tx17	

Table 27. Individual laboratory results for DNA # 1121 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:01:01	01:01:01	01:01:01	01:01:02	01:01:01	01:03:01	01:01:01	01:03:01	002:01	005:02	CareDx Tx17 NGS	
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	002:01/002:03/018:01	003:01/005:02/005:08/006/010/019:01/038	NGS-INH	
227	01:01:01	01:01:01	01:01:01	01:01:02	01:01:01	01:03:01	01:01:01	01:03:01	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:01:01:--	01:01:01:08	01:01:02:--	01:01:01:01	01:03:01:02	01:01:01:01	01:03:01:01	002:01	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 HLA-F: F*01:01:02:07 or F*01:01:02:11
9232	01:01:01	01:01:01	01:01:01:08	01:01:02	01:01:01:01	01:03:01:2	01:01:01:01	01:03:01:01	002:01	005:02	NGS-Tx17	

Table 28. Individual laboratory results for DNA # 1122 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:01:01	01:01:1	01:01:01	01:01:02	01:01:12	01:04:01	02:03:01	02:03:01	005:02	005:02	CareDx Tx17 NGS	
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/005:11/006/010	003:01/005:02/005:08/005:11/006/010	NGS-INH	
227	01:01:01	01:01:01	01:01:01	01:01:02	01:01:12	01:04:01	02:03:01	DEL	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:01:01:03	01:01:01:--	01:01:02:10	01:01:12	01:04:01:01	02:03:01	DEL	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 HLA-F: F*01:01:01:09 or F*01:01:01:29
9232	01:01:01	01:01:01	01:01:01	01:01:02	01:01:12	01:04:01	02:03:01	DEL	005:02	005:02	NGS-Tx17	

Table 29. Individual laboratory results for DNA # 1123 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:01:01	01:03:02	01:01:01	01:03:01	01:01:01	01:04:04	01:01:01	01:01:01	002:01	005:02	CareDx Tx17 NGS	
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	002:01/002:03/018:01/036	003:01/005:02/005:08/005:11/006/010/019:01/038	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:03:01	01:01:01	01:04:04	01:01:01	DEL	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:03:02:--	01:01:01:--	01:03:01:03	01:01:01:01	01:04:04:01	01:01:01:05	DEL	002:01	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 and E*01:03:02:01 or E*01:03:02:32 HLA-F: F*01:01:01:01 or F*01:01:01:17
9232	01:01:01	01:03:02	01:01:01	01:03:01:03	01:01:01:01	01:04:04	01:01:01	01:01:01	002:01	005:02	NGS-Tx17	

Table 30. Individual laboratory results for DNA # 1124 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:01:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:02	01:01:01	01:01:01	005:02	005:02	CareDx Tx17 NGS	
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	003:01/005:02/005:08/006/010	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:02	01:01:01	01:01:01	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:24-296	
1686	01:01:01:--	01:03:02:--	01:01:01:--	01:01:01:--	01:01:01:01	01:01:02:01	01:01:01:01	01:01:01:01	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 and E*01:03:02:01 or E*01:03:02:32 HLA-F: F*01:01:01:01 or F*01:01:01:17 and F*01:01:01:09 or F*01:01:01:29
9232	01:01:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:02	01:01:01:01	01:01:01:01	005:02	005:02	NGS-Tx17	

DNA Exchange - 183 Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
7	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
16	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
124	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
125	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG
134	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
144	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
147	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX
148	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS			GIL-NGS		GIL-NGS
162	BS-SBT	BS-SBT	BS-SBT	BS-SSP BS-SBT			BS-SBT		
173	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
176	INH-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	INH-NGS
188	OL-SBT GIL-NGS	OL-SBT GIL-NGS	OL-SBT GIL-NGS	OL-SBT GIL-NGS		OL-SBT GIL-NGS	OL-SBT OLE-SSP GIL-NGS	OLE-SSP GIL-NGS	OL-SBT 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	Other-Others GIL-INH-NGS	Other-Others GIL-INH-NGS	Other-Others 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	SC-SSP SBT-SC-TBG LUM-OL-SSO			SBT-SC-TBG LUM-OL-SSO		SBT-SC
205	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS
207					OLE-SSP				
218	INH-NGS	INH-NGS	INH-NGS	INH-NGS			INH-NGS		INH-NGS
227	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
238	HT-SSO GIL-NGS	HT-SSO GIL-NGS	HT-SSO GIL-NGS	HT-SSO GIL-NGS	OLE-SSP	OLE-SSP HT-SSO	HT-SSO GIL-NGS		OLE-SSP GIL-NGS
239	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
240	OL-SSP GD-NGS	OL-SSP GD-NGS	OL-SSP GD-NGS	OL-SSP GD-NGS	OL-SSP GD-NGS	OL-SSP GD-NGS	OL-SSP GD-NGS	GD-NGS	GD-NGS
242						OLE-SSP			
258	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS	LC-SSO GIL-NGS
262				OL-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 IL-OL-NGS	LUM-OL-SSO IL-OL-NGS	LUM-OL-SSO IL-OL-NGS	LUM-OL-SSO IL-OL-NGS	LUM-OL-SSO IL-OL-NGS	LUM-OL-SSO IL-OL-NGS	LUM-OL-SSO IL-OL-NGS	LUM-OL-SSO IL-OL-NGS	LUM-OL-SSO IL-OL-NGS
279	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	OLE-SSP	OLE-SSP NGS-OMX	NGS-OMX	OLE-SSP	OLE-SSP NGS-OMX
288	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-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
298	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
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

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
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-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
344	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
345	GIL-SBT GIL-NGS	GIL-SBT GIL-NGS	GIL-OLE-SBT GIL-NGS	GIL-SBT GIL-NGS			GIL-SBT GIL-NGS	GIL-NGS	GIL-NGS
346		INH-SBT							
353	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS
402	NGS-OL GD-SBT	NGS-OL GD-SBT	NGS-OL GD-SBT	NGS-OL GD-SBT	NGS-OL	NGS-OL	NGS-OL GD-SBT	NGS-OL GD-SBT	NGS-OL GD-SBT
403	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS		GIL-NGS		GIL-NGS
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	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	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	PRO-SBT	PRO-SBT	PRO-SBT	PRO-SBT OLE-SSP		PRO-SBT		PRO-SBT
1426	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG
1647	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
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
2518	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
2862	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS
3410	OL-SSO GIL-NGS	GIL-NGS	GIL-NGS	GV-SSP GIL-NGS			GIL-NGS		GIL-NGS
3438	NGS-OL	NGS-OL LC-SSO	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3582	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3600									LS-rtPCR
3614	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	OL-SSO NGS-OMX	NGS-OMX
3625	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3849	INH-NGS	INH-NGS	INH-NGS						
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
8092									LS-rtPCR
9226	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
9227	GIL-NGS	OLE-SSP GIL-NGS	GIL-NGS	GIL-SBT GIL-NGS			GIL-NGS	OLE-SSP	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
45852	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS

DNA Exchange - 183 Participants and Methods Low Resolution

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
134	OL-SSO OLE-SSP LS-rtPCR	OL-SSO OLE-SSP LS-rtPCR	OL-SSO OLE-SSP	OL-SSO OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO OLE-SSP LS-rtPCR	LS-rtPCR	OLE-SSP LS-rtPCR
144	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
147	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
148	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO			BAG-SSO		
162	BS-SSP	BS-SSP	BS-SSP	BS-SSP			BS-SSP		
188	Other-Others OL-SSO OLE-SSP	Other-Others OL-SSO	Other-Others OL-SSO	Other-Others OL-SSO			Other-Others		
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
207	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	OLE-SSP LS-rtPCR
215	OL-SSP	OL-SSP	OL-SSP	OL-SSP	OL-SSP		OL-SSP		
227	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
242	OLE-SSP	OL-OLE-SSP	OL-OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP		
244	OL-SSP BAG-SSO	BAG-SSO	BAG-SSO	OL-SSP BAG-SSO		OLE-SSP BAG-SSO	BAG-SSO		
245	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR	OL-SSO CQ-rtPCR
252	INN-SSP	INN-SSP	INN-SSP	INN-SSP	INN-SSP	INN-SSP	INN-SSP	INN-SSP	INN-SSP
255	OL-SSO	OL-SSO		OL-SSO					
262	PRO-SSP	OLE-PRO-SSP	PRO-SSP	BR-OLE-PRO-SSP	PRO-SSP	OLE-SSP	PRO-SSP		
265	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
266	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-SSO
267	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO
279	LB-SSP	LB-SSP	LB-OLE-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP
280	LS-rtPCR LC-SSO	LS-rtPCR LC-SSO	LS-rtPCR LC-SSO	LS-rtPCR LC-SSO	LS-rtPCR	LS-rtPCR LC-SSO	LS-rtPCR LC-SSO	LS-rtPCR	LS-rtPCR
285	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO		LUM-SSO	LUM-SSO		
286	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
288	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	INN-OLE-SSP	BAG-SSO	BAG-SSO	INN-SSP	INN-SSP BAG-SSO
292	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO		
293	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO
294	Other-Others LS-OLE-SSP IMM-OL-SSO	Other-Others OL-SSO LS-OLE-SSP	Other-Others LS-OLE-SSP IMM-OL-SSO	Other-Others LS-OLE-SSP IMM-OL-SSO	OLE-SSP	OL-SSO LS-SSP	Other-Others OL-SSO LS-OLE-SSP		LS-OLE-SSP
300	OL-SSP	OL-SSP	OL-SSP	OL-SSP			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	IMM-SSO		
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-SSP OL-SSO	OL-SSO
334	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
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

Participants and Methods Low Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
343	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO
345	OLE-SSP LS-rtPCR	OLE-SSP LS-rtPCR	LS-rtPCR	OLE-SSP OLE-SSO LS-rtPCR	LS-rtPCR	LS-rtPCR	OLE-SSP OLE-SSO LS-rtPCR	LS-rtPCR	LS-rtPCR
346	OLE-SSP	OLE-SSP		OLE-SSP					
350	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO		
402	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-SSO
615	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
726	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR
732	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
1189	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR	OL-SSO LS-rtPCR
1251	Other-Others IMM-SSO	Other-Others IMM-SSO	Other-Others IMM-SSO	Other-Others IMM-SSO	Other-Others IMM-SSO	Other-Others IMM-SSO	Other-Others IMM-SSO	Other-Others IMM-SSO	Other-Others IMM-SSO
1647	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR	LB-rtPCR
3410						OL-SSO			
3438	LC-SSO LB-SSP	LC-SSO LB-SSP	LC-SSO LB-SSP	LC-SSO LB-SSP	LB-SSP	LC-SSO LB-SSP	LC-SSO LB-SSP	LB-SSP	LB-SSP
3600	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK
4545	OL-SSO	OL-SSO	OL-SSO	OL-SSO			Other-Others 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
8092	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
8139	INN-SSP	INN-SSP	INN-SSP	INN-SSP		INN-SSP	INN-SSP	INN-SSP	
9221	OLE-SSO LB-rtPCR	OLE-SSO LB-rtPCR	OLE-SSO LB-rtPCR	OLE-SSO LB-rtPCR	OLE-SSO LB-rtPCR	OLE-SSO LB-rtPCR	OLE-SSO LB-rtPCR	OLE-SSO LB-rtPCR	OLE-SSO LB-rtPCR
9225	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
9227	OLE-SSP LC-OLE-SSO	LC-SSO	OLE-SSP LC-SSO	OLE-SSP LC-SSO			OLE-SSP LC-SSO		
9231	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-SSO