

UCLA INTERNATIONAL HLA DNA EXCHANGE



182ND SUMMARY

JULY 17, 2024

DNA Sample	
#1113	#1116
#1114	#1117
#1115	#1118

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DNA #1113 CAUCASIAN

HLA-A		HLA-B		HLA-C							
02:01	32:01	18:01	44:02	05:01	12:03						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
11:50	12:01	3*02:02		05:05		03:01		01:03		04:02	

The likely class I associations for this cell are A*02:01-B*44:02-C*05:01 and A*32:01-B*18:01-C*12:03, with respective frequencies of HF=0.05370 and HF=0.00018, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1113 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9. The results for DNA #1113 HLA-E, -F, -G, -H, and MICB data can be found on Table 25.

DNA #1114 ASIAN

HLA-A		HLA-B		HLA-C							
02:01	11:01	15:11	27:04	03:03	08:01						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
04:06	09:01	4*01:03		03:01	03:02	03:02	03:03	01:03	02:02	02:01	05:01

The likely class II associations in this cell are DRB1*04:06-DQB1*03:02 and DRB1*09:01-DQB1*03:03, with respective frequencies of HF=0.02030 and HF=0.09664, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #1114 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12. The results for DNA #1114 HLA-E, -F, -G, -H, and MICB data can be found on Table 26.

DNA #1115 ARMENIAN

HLA-A		HLA-B		HLA-C							
02:01	03:01	35:03	51:01	04:01	15:06						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
11:04	14:33	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03		04:01	04:02

The likely class I associations for this cell are A*02:01-B*51:01 and A*03:01-B*35:03, with respective frequency of HF=0.01997 and HF=0.00398, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1115 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15. The results for DNA #1115 HLA-E, -F, -G, -H, and MICB data can be found on Table 27.



DNA Sample

#1113	#1116
#1114	#1117
#1115	#1118

DNA #1116 CAUCASIAN

HLA-A		HLA-B		HLA-C								
24:02	33:01	14:02	18:01	08:02	12:03							
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
07:01	08:01	4*01:03	NP	02:01	04:01	02:02	04:02	02:01			01:01	17:01

NP= Not Present

The likely class I associations in this cell are A*24:02-B*18:01-C*12:03 and A*33:01-B*14:02-C*08:02, with respective frequencies of HF=0.00107 and HF=0.00927, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1116 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18. The results for DNA #1116 HLA-E, -F, -G, -H, and MICB data can be found on Table 28.

DNA #1117 CAUCASIAN

HLA-A		HLA-B		HLA-C							
02:01		35:17	42:01	04:01	17:01						
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
03:02	08:02	3*01	NP	04:01		04:02		01:03	02:02	01:01	04:02

A consensus for the DRB3*01 allele could not be reached seeing as 2 participants reported DRB3*01:62:01:01, 1 participant reported DRB3*01:62:01:02, 1 participant reported DRB3*01:01:02:01, 3 participants reported DRB3*01:01:02, 12 participants reported DRB3*01:01:02G, 13 participants reported DRB3*01:01P, 24 participants reported DRB3*01:62, and 7 participants reported DRB3*01:01.

The likely class II associations in this cell are DRB1*03:02-DQB1*04:02 and DRB1*08:02-DQB1*04:02, with respective frequencies of HF=0.00006 and HF=0.00025, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1117 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21. The results for DNA #1117 HLA-E, -F, -G, -H, and MICB data can be found on Table 29.

DNA #1118 HISPANIC

HLA-A		HLA-B		HLA-C								
11:01	68:03	27:05	39:05	01:02	07:02							
DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	01:03			04:01	04:02

The likely class I associations in this cell are A*11:01-B*27:05-C*01:02 and A*68:03-B*39:05-C*07:02, with respective frequencies of HF=0.00424 and HF=0.00653, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1118 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24. The results for DNA #1118 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 182nd DNA Exchange (DNA #1113)

A				B				C			
78 labs High / 70 labs Low		% (n)		80 labs High / 70 labs Low		% (n)		79 labs High / 67 labs Low		% (n)	
A*02:01:01:01	2 (2)	A*32:01:01	58(47)	B*18:01:01:01	1 (1)	B*44:02:01:01	5 (4)	C*05:01:01:02	2 (2)	C*12:03:01:01	8 (6)
A*02:01:01	57(46)	A*32:01:01G	5 (4)	B*18:01:01	1 (1)	B*44:02:01	54(43)	C*05:01:01	56(44)	C*12:03:01	52(41)
A*02:01:01G	5 (4)	A*32:01P	2 (2)	B*18:01:01G	56(45)	B*44:02:01G	2 (2)	C*05:01:01G	4 (3)	C*12:03:01G	4 (3)
A*02:01P	1 (1)	A*32:01	35(28)	B*18:01P	4 (3)	B*44:02P	2 (2)	C*05:01P	2 (2)	C*12:03P	1 (1)
A*02:01	35(28)	A*32	100(67)	B*18:01	1 (1)	B*44:02	36(29)	C*05:01	35(28)	C*12:03	35(28)
A*02	98(66)			B*18	36(29)	B*44	100(70)	C*05	100(67)	C*12	100(67)
A*01	1 (1)										

DRB1				DRB3/4/5				DQA1			
80 labs High / 70 labs Low		% (n)		61 labs High / 45 labs Low		% (n)		71 labs High / 57 labs Low		% (n)	
DRB1*11:04:01	1 (1)	DRB1*12:01:01	46(36)	DRB3*02:02:01:01	2 (1)			DQA1*05:05:01:03	1 (1)		
DRB1*11:50	96(77)	DRB1*12:01:01G	11(9)	DRB3*02:02:01:02	2 (1)			DQA1*05:05:01	51(36)		
DRB1*11:04	1 (1)	DRB1*12:01P	9 (7)	DRB3*02:02:01	39(24)			DQA1*05:01:01	1 (1)		
DRB1*11:56	1 (1)	DRB1*12:01	34(27)	DRB3*02:02:01G	15(9)			DQA1*05:01:01G	1 (1)		
DRB1*11	100(69)	DRB1*12	100(70)	DRB3*02:02P	8 (5)			DQA1*05:01P	6 (4)		
				DRB3*02:02	34(21)			DQA1*05:05	37(26)		
				DRB3*02	73(33)			DQA1*05:01	3 (2)		
				DRB3*01	2 (1)			DQA1*05	100(57)		
				DRB3*PRESENT	24(11)						

DQB1				DPA1				DPB1			
79 labs High / 68 labs Low		% (n)		64 labs High / 41 labs Low		% (n)		78 labs High / 45 labs Low		% (n)	
DQB1*03:01:01:03	1 (1)			DPA1*01:03:01:05	2 (1)			DPB1*04:02:01:02	1 (1)		
DQB1*03:01:01:01	1 (1)			DPA1*01:03:01:01	2 (1)			DPB1*04:02:01:01	1 (1)		
DQB1*03:01:01	40(32)			DPA1*01:03:01	59(38)			DPB1*04:02:01	46(36)		
DQB1*03:01:01G	14(11)			DPA1*01:03P	5 (3)			DPB1*04:02:01G	11(9)		
DQB1*03:01P	10(8)			DPA1*01:03	33(21)			DPB1*04:02P	11(9)		
DQB1*03:01	33(26)			DPA1*01	100(41)			DPB1*04:02	28(22)		
DQB1*03(DQ7)	59(40)							DPB1*04(DP402)	98(44)		
DQB1*03	41(28)							DPB1*04(DP401)	2 (1)		

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

Table 2. Summary of the 182nd DNA Exchange (DNA #1114)

A				B				C			
80 labs High / 63 labs Low		% (n)		80 labs High / 64 labs Low		% (n)		79 labs High / 62 labs Low		% (n)	
A*02:01:01:01	4 (3)	A*11:01:01:01	2 (2)	B*15:11:01	61(49)	B*27:04:01	62(50)	C*03:03:01:01	2 (2)	C*08:01:01:01	1 (1)
A*02:01:01	55(44)	A*11:01:01	55(44)	B*15:11:01G	1 (1)	B*27:04:01G	1 (1)	C*03:03:01	56(44)	C*08:01:01	57(45)
A*02:01:01G	5 (4)	A*11:01:01G	5 (4)	B*15:11P	1 (1)	B*27:04P	1 (1)	C*03:03:01G	5 (4)	C*08:01:01G	2 (2)
A*02:01P	1 (1)	A*11:01P	2 (2)	B*15:11	36(29)	B*27:04	35(28)	C*03:03P	1 (1)	C*08:01P	2 (2)
A*02:01	35(28)	A*11:01	35(28)	B*15(B75)	56(36)	B*27	100(64)	C*03:03	35(28)	C*08:01	37(29)
A*02	100(63)	A*11	98(62)	B*15	44(28)			C*03(Cw9)	61(38)	C*08	100(62)
		A*02	2 (1)					C*03	39(24)		
DRB1				DRB3/4/5				DQA1			
79 labs High / 65 labs Low		% (n)		61 labs High / 42 labs Low				69 labs High / 56 labs Low		% (n)	
DRB1*04:06:01	58(46)	DRB1*09:01:02	48(38)	DRB4*01:03:01	51(31)	DRB4*01:03:02	58(35)	DQA1*03:01:01:01	6 (4)	DQA1*03:02:01:01	6 (4)
DRB1*04:06:01G	1 (1)	DRB1*09:02:01	1 (1)	DRB4*01:01:01G	7 (4)	DRB4*01:01:01G	3 (2)	DQA1*03:01:01	42(29)	DQA1*03:02:01	43(29)
DRB1*04:06P	2 (2)	DRB1*09:01:02G	8 (6)	DRB4*01:01P	13(8)	DRB4*01:01P	12(7)	DQA1*03:01:01G	12(8)	DQA1*03:01:01G	9 (6)
DRB1*04:06	38(30)	DRB1*09:01P	11(9)	DRB4*01:03	28(17)	DRB4*01:03	25(15)	DQA1*03:01P	9 (6)	DQA1*03:01P	7 (5)
DRB1*04	100(65)	DRB1*09:01	32(25)	DRB4*01:01	2 (1)	DRB4*01:01	2 (1)	DQA1*03:01	32(22)	DQA1*03:02	35(24)
		DRB1*09	100(65)	DRB4*01	79(33)	DRB4*01	80(32)	DQA1*03	98(55)	DQA1*03	100(55)
				DRB4*PRESENT	21(9)	DRB4*PRESENT	20(8)	DQA1*02	2 (1)		
DQB1				DPA1				DPB1			
80 labs High / 64 labs Low		% (n)		63 labs High / 41 labs Low		% (n)		77 labs High/ 43 labs Low		% (n)	
DQB1*03:02:01:01	2 (2)	DQB1*03:03:02:03	1 (1)	DPA1*01:03:01:01	3 (2)	DPA1*02:02:02:01	3 (2)	DPB1*02:01:02	34(26)	DPB1*05:01:01	34(26)
DQB1*03:02:01	44(35)	DQB1*03:03:02:02	1 (1)	DPA1*01:03:01	56(35)	DPA1*02:02:02	56(35)	DPB1*02:01:02G	23(18)	DPB1*05:01:01G	25(19)
DQB1*03:02:01G	6 (5)	DQB1*03:03:02:01	1 (1)	DPA1*01:03:01G	2 (1)	DPA1*02:02P	8 (5)	DPB1*02:01P	14(11)	DPB1*05:01P	14(11)
DQB1*03:02P	10(8)	DQB1*03:03:02	51(41)	DPA1*01:03P	6 (4)	DPA1*02:02	33(21)	DPB1*02:01	29(22)	DPB1*05:01	27(21)
DQB1*03:02	37(30)	DQB1*03:03:02G	4 (3)	DPA1*01:03	33(21)	DPA1*02	100(41)	DPB1*02(DP201)	100(43)	DPB1*05	100(43)
DQB1*03(DQ8)	64(41)	DQB1*03:03P	5 (4)	DPA1*01	100(41)						
DQB1*03	34(22)	DQB1*03:03	36(29)								
DQB1*03(DQ7)	2 (1)	DQB1*03(DQ9)	67(42)								
		DQB1*03	32(20)								
		DQB1*04	2 (1)								

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

Table 3. Summary of the 182nd DNA Exchange (DNA #1115)

A				B				C			
79 labs High / 61 labs Low		% (n)		79 labs High / 62 labs Low		% (n)		78 labs High / 60 labs Low		% (n)	
A*02:01:01:01	4 (3)	A*03:01:01:03	10(8)	B*35:03:01	56(44)	B*51:01:01	52(41)	C*04:01:01:01	1 (1)	C*15:06:01	59(46)
A*02:01:01	53(42)	A*03:01:01	46(36)	B*35:03:01G	4 (3)	B*51:01:01G	6 (5)	C*04:01:01	56(44)	C*15:06P	3 (2)
A*02:01:01G	5 (4)	A*03:01:01G	5 (4)	B*35:03P	2 (2)	B*51:01P	4 (3)	C*04:01:01G	4 (3)	C*15:06	36(28)
A*02:01P	2 (2)	A*03:01P	2 (2)	B*35:03	38(30)	B*51:01	38(30)	C*04:01P	1 (1)	C*15:05	1 (1)
A*02:01	35(28)	A*03:01	37(29)	B*35	98(61)	B*51	100(62)	C*04:01	37(29)	C*15:02	1 (1)
A*02	100(61)	A*03	100(61)	B*51	2 (1)			C*04	100(60)	C*15	100(60)
DRB1				DRB3/4/5				DQA1			
77 labs High / 62 labs Low		% (n)		60 labs High / 42 labs Low		% (n)		67 labs High / 53 labs Low		% (n)	
DRB1*11:04:01	49(38)	DRB1*14:33	97(75)	DRB3*01:01:02:01	2 (1)	DRB3*02:02:01:01	2 (1)	DQA1*01:03:01:01	1 (1)	DQA1*05:05:01	58(39)
DRB1*11:04:01G	4 (3)	NEW	3 (2)	DRB3*01:01:02	32(19)	DRB3*02:02:01	33(20)	DQA1*01:03:01:02	1 (1)	DQA1*05:01:01G	1 (1)
DRB1*11:04P	6 (5)	DRB1*14	96(60)	DRB3*01:01:02G	23(14)	DRB3*02:02:01G	23(14)	DQA1*01:03:01	57(38)	DQA1*05:01P	4 (3)
DRB1*11:04	39(30)	DRB1*03(DR17)	2 (1)	DRB3*01:01P	17(10)	DRB3*02:02P	17(10)	DQA1*01:03:01G	1 (1)	DQA1*05:05	36(24)
DRB1*11:01	1 (1)	DRB1*13	2 (1)	DRB3*01:01	27(16)	DRB3*02:02	25(15)	DQA1*01:03P	3 (2)	DQA1*05	98(52)
DRB1*11	98(61)			DRB3*01	81(34)	DRB3*02	83(34)	DQA1*01:03	36(24)	DQA1*04	2 (1)
DRB1*07	2 (1)			DRB3*PRESENT	19(8)	DRB3*PRESENT	17(7)	DQA1*01	100(53)		
DQB1				DPA1				DPB1			
77 labs High / 61 labs Low		% (n)		62 labs High / 41 labs Low		% (n)		75 labs High / 41 labs Low		% (n)	
DQB1*03:01:01:01	1 (1)	DQB1*06:03:01:01	3 (2)	DPA1*01:03:01:04	5 (3)			DPB1*04:01:01:01	3 (2)	DPB1*04:02:01:02	1 (1)
DQB1*03:01:01:03	1 (1)	DQB1*06:03:01	43(33)	DPA1*01:03:01:01	2 (1)			DPB1*04:01:01	24(18)	DPB1*04:02:01:01	1 (1)
DQB1*03:01:01	44(34)	DQB1*06:03:01G	4 (3)	DPA1*01:03:01	52(32)			DPB1*04:01:01G	30(23)	DPB1*04:02:01	26(20)
DQB1*03:01:01G	9 (7)	DQB1*06:03P	8 (6)	DPA1*01:03P	6 (4)			DPB1*04:01P	21(16)	DPB1*04:02:01G	31(24)
DQB1*03:01P	9 (7)	DQB1*06:03	42(32)	DPA1*01:03	35(22)			DPB1*04:01	22(17)	DPB1*04:02P	21(16)
DQB1*03:01	35(27)	DQB1*03:06	1 (1)	DPA1*01	100(41)			DPB1*04(DP401)	100(43)	DPB1*04:02	19(15)
DQB1*03(DQ7)	66(40)	DQB1*06	98(60)							DPB1*04(DP402)	95(40)
DQB1*03	34(21)	DQB1*03	2 (1)							DPB1*04(DP401)	2 (1)
										DPB1*105	2 (1)

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

Table 4. Summary of the 182nd DNA Exchange (DNA #1116)

A				B				C			
84 labs High / 61 labs Low		% (n)		82 labs High / 61 labs Low		% (n)		81 labs High / 60 labs Low		% (n)	
A*24:02:01:01	2 (2)	A*33:01:01:01	12(10)	B*14:02:01:01	8 (7)	B*18:01:01:02	1 (1)	C*08:02:01:01	2 (2)	C*12:03:01:01	10(8)
A*24:02:01	53(44)	A*33:01:01	45(38)	B*14:02:01	49(40)	B*18:01:01	54(44)	C*08:02:01	52(42)	C*12:03:01	47(38)
A*24:02:01G	6 (5)	A*33:01:01G	5 (4)	B*14:02:01G	4 (3)	B*18:01:01G	6 (5)	C*08:02:01G	4 (3)	C*12:03:01G	4 (3)
A*24:02P	2 (2)	A*33:01P	2 (2)	B*14:02P	2 (2)	B*18:01P	2 (2)	C*08:02P	2 (2)	C*12:03P	1 (1)
A*24:02	36(30)	A*33:01	33(28)	B*14:02	37(30)	B*18:01	37(30)	C*08:02	40(32)	C*12:03	38(31)
A*24	100(61)	A*33:03	1 (1)	B*14(B65)	59(36)	B*18	100(61)	C*08	100(60)	C*12	100(60)
		A*30:01	1 (1)	B*14	41(25)						
		A*33	100(61)								
DRB1				DRB3/4/5				DQA1			
80 labs High / 62 labs Low		% (n)		59 labs High / 43 labs Low		% (n)		71 labs High / 54 labs Low		% (n)	
DRB1*07:01:01:01	2 (2)	DRB1*08:01:01	46(37)	DRB4*01:03:01:01	2 (1)			DQA1*02:01:01	56(40)	DQA1*04:01:01	56(40)
DRB1*07:01:01	45(36)	DRB1*08:01:01G	7 (6)	DRB4*01:03:01	51(30)			DQA1*02:01:01G	1 (1)	DQA1*04:01:01G	1 (1)
DRB1*07:01:01G	11(9)	DRB1*08:01P	12(10)	DRB4*01:01:01G	7 (4)			DQA1*02:01	42(30)	DQA1*04:01P	4 (3)
DRB1*07:01P	10(8)	DRB1*08:01	32(26)	DRB4*01:01P	14(8)			DQA1*02	100(54)	DQA1*04:01	38(27)
DRB1*07:01	31(25)	DRB1*08:02	1 (1)	DRB4*01:03	25(15)					DQA1*04	100(54)
DRB1*07	100(62)	DRB1*08	98(61)	DRB4*01:01	2 (1)						
		DRB1*13	2 (1)	DRB4*01	84(36)						
				DRB4*PRESENT	16(7)						
DQB1				DPA1				DPB1			
81 labs High / 61 labs Low		% (n)		63 labs High / 42 labs Low		% (n)		80 labs High / 43 labs Low		% (n)	
DQB1*02:02:01:01	1 (1)	DQB1*04:02:01:04	1 (1)	DPA1*02:01:01:03	8 (5)	DPA1*02:01:02:02	5 (3)	DPB1*01:01:01	45(36)	DPB1*17:01:01:01	1 (1)
DQB1*02:02:01	45(36)	DQB1*04:02:01	43(35)	DPA1*02:01:01	33(21)	DPA1*02:01:02	43(27)	DPB1*01:01:01G	16(13)	DPB1*17:01:01	45(36)
DQB1*02:02:01G	6 (5)	DQB1*04:01:01G	7 (6)	DPA1*02:01:01G	8 (5)	DPA1*02:01P	9 (6)	DPB1*01:01P	7 (6)	DPB1*17:01:01G	15(12)
DQB1*02:02P	7 (6)	DQB1*04:01P	10(8)	DPA1*02:01P	8 (5)	DPA1*02:01	43(27)	DPB1*01:01	31(25)	DPB1*17:01P	7 (6)
DQB1*02:02	39(31)	DQB1*04:02	38(31)	DPA1*02:01	43(27)	DPA1*02	100(42)	DPB1*01	100(43)	DPB1*17:01	31(25)
DQB1*02:01	1 (1)	DQB1*04	100(61)	DPA1*02	100(42)					DPB1*17	100(43)
DQB1*02	100(61)										

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

Table 5. Summary of the 182nd DNA Exchange (DNA #1117)

A			B			C									
85 labs High / 60 labs Low	% (n)		84 labs High / 60 labs Low	% (n)		83 labs High / 59 labs Low	% (n)								
A*02:01:01:01	2	(2)	B*35:17:01:01	11	(9)	B*42:01:01:01	12	(10)	C*04:01:01	54	(45)	C*17:01:01:02	8	(7)	
A*02:01:01	53	(45)	B*35:17:01	46	(39)	B*42:01:01	43	(36)	C*04:01:01G	10	(8)	C*17:01:01	48	(40)	
A*02:01:01G	7	(6)	B*35:17:01G	4	(3)	B*42:01:01G	6	(5)	C*04:01P	2	(2)	C*17:01:01G	5	(4)	
A*02:01P	5	(4)	B*35:17	38	(32)	B*42:01P	4	(3)	C*04:01	34	(28)	C*17:01P	5	(4)	
A*02:01	33	(28)	B*35:01	1	(1)	B*42:01	36	(30)	C*04	100	(59)	C*17:01	34	(28)	
A*02	100	(60)	B*35	100	(60)	B*42	100	(60)				C*17	100	(59)	
DRB1				DRB3/4/5				DQA1							
83 labs High / 61 labs Low	% (n)			63 labs High / 42 labs Low	% (n)			72 labs High / 54 labs Low	% (n)						
DRB1*03:02:01	57	(47)	DRB1*08:02:01	54	(44)	DRB3*01:62:01:01	3	(2)	DQA1*04:01:01	57	(41)				
DRB1*03:02P	6	(5)	DRB1*08:01:02	1	(1)	DRB3*01:62:01:02	2	(1)	DQA1*04:01:01G	1	(1)				
DRB1*03:02	36	(30)	DRB1*08:02P	6	(5)	DRB3*01:01:02:01	2	(1)	DQA1*04:01P	4	(3)				
DRB1*04:02	1	(1)	DRB1*08:02	39	(32)	DRB3*01:01:02	5	(3)	DQA1*04:01	37	(27)				
DRB1*03(DR18)	61	(37)	DRB1*08	100	(61)	DRB3*01:01:02G	19	(12)	DQA1*04	100	(54)				
DRB1*03	39	(24)				DRB3*01:01P	21	(13)							
						DRB3*01:62	38	(24)							
						DRB3*01:01	11	(7)							
						DRB3*01	81	(34)							
						DRB3*PRESENT	19	(8)							
DQB1				DPA1				DPB1							
84 labs High / 52 labs Low	% (n)			66 labs High / 40 labs Low	% (n)			82 labs High / 42 labs Low	% (n)						
DQB1*04:02:01:04	1	(1)		DPA1*01:03:01:05	1	(1)	DPA1*02:02:02	60	(39)	DPB1*01:01:01	44	(36)	DPB1*04:02:01:02	1	(1)
DQB1*04:02:01	44	(37)		DPA1*01:03:01	59	(39)	DPA1*02:02P	8	(5)	DPB1*01:01:01G	15	(12)	DPB1*04:02:01:01	1	(1)
DQB1*04:02:01G	9	(8)		DPA1*01:03:01G	1	(1)	DPA1*02:02	32	(21)	DPB1*01:01P	8	(7)	DPB1*04:02:01	39	(32)
DQB1*04:02P	9	(8)		DPA1*01:03P	6	(4)	DPA1*02	100	(40)	DPB1*01:01	33	(27)	DPB1*04:02:01G	18	(15)
DQB1*04:02	36	(30)		DPA1*01:03	32	(21)			DPB1*01	100	(42)	DPB1*04:02P	14	(11)	
DQB1*04	100	(52)		DPA1*01	97	(39)						DPB1*04:02	26	(21)	
				DPA1*03	2	(1)						DPB1*04(DP402)	98	(41)	
												DPB1*04(DP401)	2	(1)	

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

Table 6. Summary of the 182nd DNA Exchange (DNA #1118)

A				B				C			
80 labs High / 61 labs Low		% (n)		76 labs High / 64 labs Low		% (n)		79 labs High / 59 labs Low		% (n)	
A*11:01:01:01	2 (2)	A*68:03:01:01	12(10)	B*27:05:02	57(47)	B*39:05:01:01	11(9)	C*01:02:01:01	2 (1)	C*07:02:01:01	2 (2)
A*11:01:01	55(44)	A*68:03:01	49(39)	B*27:05:02G	6 (5)	B*39:05:01	49(39)	C*01:02:01	56(44)	C*07:02:01	56(44)
A*11:01:01G	6 (5)	A*68:03:01G	2 (2)	B*27:05P	4 (3)	B*39:05:01G	4 (3)	C*01:02:01G	5 (4)	C*07:02:01G	6 (5)
A*11:01P	4 (3)	A*68:03P	4 (3)	B*27:05	29(24)	B*39:05P	5 (4)	C*01:02P	5 (4)	C*07:02P	4 (3)
A*11:01	32(26)	A*68:03	32(26)	B*27:03	4 (3)	B*39:05	31(25)	C*01:02	32(25)	C*07:02	32(25)
A*11	100(61)	A*68	100(60)	B*27	98(59)	B*39	100(60)	C*01	100(59)	C*07	100(59)
				B*18	2 (1)						
DRB1				DRB3/4/5				DQA1			
79 labs High / 60 labs Low		% (n)		60 labs High / 40 labs Low		% (n)		68 labs High / 54 labs Low		% (n)	
DRB1*01:01:01	46(36)	DRB1*04:07:01	49(39)	DRB4*01:03:02	58(35)			DQA1*01:01:01	57(39)	DQA1*03:01:01:01	7 (5)
DRB1*01:01:01G	14(11)	DRB1*04:07:01G	9 (7)	DRB4*01:01:01G	3 (2)			DQA1*01:01:01G	2 (1)	DQA1*03:01:01	50(34)
DRB1*01:01P	13(10)	DRB1*04:07P	10(8)	DRB4*01:01P	10(6)			DQA1*01:01P	7 (5)	DQA1*03:01:01G	2 (1)
DRB1*01:01	28(22)	DRB1*04:07	32(25)	DRB4*01:03	27(16)			DQA1*01:01	34(23)	DQA1*03:01P	7 (5)
DRB1*01	98(59)	DRB1*04	100(60)	DRB4*01:01	2 (1)			DQA1*01	100(54)	DQA1*03:01	34(23)
DRB1*07	2 (1)			DRB4*01	83(33)					DQA1*03	98(53)
				DRB4*PRESENT	17(7)					DQA1*01	2 (1)
DQB1				DPA1				DPB1			
79 labs High / 59 labs Low		% (n)		63 labs High / 41 labs Low		% (n)		78 labs High / 42 labs Low		% (n)	
DQB1*03:02:01:01	3 (2)	DQB1*05:01:01:03	1 (1)	DPA1*01:03:01:02	3 (2)			DPB1*04:01:01:02	1 (1)	DPB1*04:02:01:02	1 (1)
DQB1*03:02:01	44(35)	DQB1*05:01:0:01	1 (1)	DPA1*01:03:01:01	2 (1)			DPB1*04:01:01:01	1 (1)	DPB1*04:02:01:01	1 (1)
DQB1*03:02:01G	10(8)	DQB1*05:01:01	49(39)	DPA1*01:03:01	57(36)			DPB1*04:01:01	25(19)	DPB1*04:02:01	27(21)
DQB1*03:02P	10(8)	DQB1*05:01:01G	13(10)	DPA1*01:03P	8 (5)			DPB1*04:01:01G	32(25)	DPB1*04:02:01G	33(26)
DQB1*03:02	33(26)	DQB1*05:01P	6 (5)	DPA1*01:03	30(19)			DPB1*04:01P	23(18)	DPB1*04:02P	23(18)
DQB1*03(DQ8)	64(38)	DQB1*05:01	29(23)	DPA1*01	100(41)			DPB1*04:01	17(13)	DPB1*04:02	14(11)
DQB1*03	36(21)	DQB1*05	100(59)					DPB1*04(DP401)	100(42)	DPB1*04(DP402)	95(39)
										DPB1*04(DP401)	5 (2)

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

Table 7. Individual laboratory results for DNA # 1113 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2518	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	3*02:02	3*02:02	05:05	05:05	03:01	03:01	01:03	01:03	04:02:01G	04:02:01G
2862	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01G	NT	05:05:01	NT	03:01:01	NT	01:03:01	NT	04:02:01	NT
3410	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	NT	NT	NT	NT	03:01	03:01	NT	NT	04:02	04:02
3438	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01	3*02:02:01	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02:01	04:02:01
3582	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01	3*02:02:01	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02:01	04:02:01
3614	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01:01G	3*02:02:01G	3*02:02:01G	05:05	05:05	03:01	03:01	01:03	01:03	04:02:01G	04:02:01G
3625	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01	NT	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02:01	04:02:01
3849	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01	3*02:02:01	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02:01	04:02:01
4237	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01P	3*02:02P	3*02:02P	05:05	05:05	03:01P	03:01P	01:03P	01:03P	04:02P	04:02P
4345	02:01:01:01	32:01P	18:01:01:01	44:02:01:01	05:01P	12:03:01:01	11:50	12:01:01G	3*02:02:01:01	NP	05:01P	05:01P	03:01:01:01	03:01:01:01	01:03:01:01	01:03:01:01	04:02:01:01	04:02:01:01
4545	02:01:01G	32:01:01G	18:01:01G	44:02:01G	05:01:01G	12:03:01G	11:50	12:01:01G	NT	NT	NT	NT	03:01:01G	03:01:01G	NT	NT	04:02:01G	04:02:01G
4582	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	3*02:02	3*02:02	05:05	05:05	03:01:01G	03:01:01G	01:03	01:03	04:02	04:02
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03:01	NT	04:02:01	NT
6051	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01	3*02:02:01	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02:01	04:02:01
9226	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01	3*02:02:01	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02P	04:02P
9227	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:04:01	12:01:01	NT	NT	NT	NT	03:01:01	03:01:01	NT	NT	04:02:01	04:02:01
9228	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01:01G	NT	NT	05:05	05:05	03:01:01G	03:01:01G	01:03	01:03	04:02:01G	04:02:01G
9230	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01:01	11:50	12:01	3*02:02:01	3*02:02:01	05:05:01	05:05:01	03:01:01	03:01:01:05	01:03:01	01:03:01	04:02:01	04:02:01
9231	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01	3*02:02:01	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02:01	04:02:01
9232	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01	3*02:02:01	05:05:01	05:05:01	03:01:01G	03:01:01G	01:03:01	01:03:01	04:02:01	04:02:01
9233	02:01:01	32:01:01	18:01	44:02	05:01:01	12:03:01	11:50	12:01:01G	NT	NT	NT	NT	03:01:01G	03:01:01G	NT	NT	04:02:01G	04:02:01G
14982	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01G	3*02:02:01G	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02:01	04:02:01
45852	02:01:01	32:01:01	18:01:01	44:02:01	05:01:01	12:03:01	11:50	12:01:01	3*02:02:01G	NT	05:05:01	NT	03:01:01	NT	01:03:01	NT	04:02:01	NT
Final Consensus based on High Resolution	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	3*02:02	3*02:02	05:05	05:05	03:01	03:01	01:03	01:03	04:02	04:02

Table 8. Individual laboratory results for DNA # 1113 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	02:01:01	32:01:01	18:01:01	44:02:01:01	05:01:01	12:03:01	FTA	FTA	FTA	FTA	05:05:01	05:05:01	03:01:01	03:01:01	01:03:01	01:03:01	04:02:01	04:02:01
155	02:01:01G	32:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	NT	NT	NT	NT	03:01:01G	03:01:01G	NT	NT	NT	NT
176	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	NT	NT	05:05	05:05	03:01	03:01	01:03	01:03	04:02	04:02
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:05	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	11:50	12:01	NT	NT	05:05	05:05	03:01	03:01	NT	NT	NT	NT
273	02:01P	32:01P	18:01P	44:02P	05:01P	12:03P	11:50	12:01P	3*02:02P	3*02:02P	05:01P	05:01P	03:01P	03:01P	NT	NT	04:02P	04:02P
288	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01	05:05	NT	NT	NT	NT	NT	NT
313	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
317	02:01	32:01	18:01	44:02	05:01	12:03	11:56	12:01	3*02:02	3*02:02	05:01	05:01	03:01	03:01	01:03	01:03	04:02	04:02
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	04:02P
4420	02:01	32:01	18:01	44:02	05:01	12:03	11:04	NT	3*02:02	3*02:02	05:05	05:05	03:01	03:01	01:03	01:03	04:02	04:02
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	32:01	18:01	44:02	05:01	12:03	11:50	12:01	3*02:02	3*02:02	05:05	05:05	03:01	03:01	01:03	01:03	04:02	04:02

Table 9. Individual laboratory results for DNA # 1113 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	32	18	44	05	12	11	12	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	03(DQ7)	NT	NT	NT	NT
134	02	32	18	44	05	12	11	12	NT	NT	NT	NT	03(DQ7)	03(DQ7)	NT	NT	04(DP402)	04(DP402)
139	02	32	18	44	05	12	11	12	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
144	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
147	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
148	02	32	18	44	05	12	11	12	NT	NT	NT	NT	03	03	NT	NT	NT	NT
158	01	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
162	02	32	18	44	05	12	11	12	NT	NT	NT	NT	03	03	NT	NT	NT	NT
189	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	NT	NT
190	02	32	18	44	05	12	11	12	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	03(DQ7)	NT	NT	NT	NT
192	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03	03	01	01	04(DP402)	04(DP402)
199	NT	NT	NT	NT	NT	NT	11	12	3*PRESENT	NT	NT	NT	03		NT	NT	NT	NT
205	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
207	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
213	02	32	18	44	05	12	11	12	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
215	NT	NT	18	44	05	12	11	12	3*PRESENT	NT	NT	NT	03	03	NT	NT	NT	NT
227	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
228	02	32	18	44	05	12	11	12	3*PRESENT	3*PRESENT	05	05	03	03	NT	NT	NT	NT
242	02	32	18	44	05	12	11	12	3*PRESENT	NT	05	NT	03	NT	NT	NT	NT	NT
252	02	32	18	44	05	12	11	12	3*PRESENT	3*PRESENT	05	05	03	03	NT	NT	NT	NT
255	02	32	18	44	NT	NT	11	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	32	18	44	05	12	11	12	3*PRESENT	3*PRESENT	05	05	03	03	NT	NT	NT	NT
265	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
266	02	32	18	44	05	12	11	12	NT	NT	05	05	03	03	01	01	04(DP402)	04(DP402)
267	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
273	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03	03	NT	NT	04(DP402)	04(DP402)
274	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
279	NT	NT	18	44	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	02	32	18	44	05	12	11	12	NT	NT	05	05	03	03	NT	NT	NT	NT
286	02	32	18	44	05	12	11	12	3*02	NT	05	NT	03	NT	01	NT	04(DP402)	NT
288	02	32	18	44	05	12	11	12	NT	NT	05	05	03	03	NT	NT	NT	NT
292	02	32	18	44	05	12	11	12	NT	NT	05	05	03	03	NT	NT	NT	NT
293	02	32	18	44	05	12	11	12	3*PRESENT	3*PRESENT	05	05	03	03	01	01	04(DP401)	04(DP401)
294	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	NT	NT	04(DP402)	04(DP402)
304	02	32	18	44	05	12	11	12	NT	NT	05	05	03	03	NT	NT	NT	NT
305	02	32	18	44	05	12	11	12	NT	NT	05	05	03(DQ7)	03(DQ7)	NT	NT	NT	NT
307	02	32	18	44	05	12	11	12	NT	NT	05	05	03	03	NT	NT	NT	NT
309	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03	03	01	01	04(DP402)	04(DP402)
311	02	32	18	44	05	12	11	12	3*01	3*01	05	05	03	03	NT	NT	NT	NT
316	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03	03	01	01	04(DP402)	04(DP402)
318	02	32	18	44	05	12	11	12	NT	NT	05	05	03	03	01	01	04(DP402)	04(DP402)
323	02	32	18	44	05	12	11	12	NT	NT	NT	NT	03(DQ7)	03(DQ7)	NT	NT	04(DP402)	04(DP402)
334	02	32	18	44	05	12	11	12	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
336	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
337	02	32	18	44	05	12	11	12	3*02	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
339	02	32	18	44	05	12	11	12	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	03	NT	NT	NT	NT
340	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
343	02	32	18	44	05	12	NT	12	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
345	02	32	18	44	NT	NT	11	12	NT	NT	NT	NT	03	03	NT	NT	04(DP402)	04(DP402)
350	NT	NT	18	44	05	12	11	12	NT	NT	05	05	03	03	NT	NT	NT	NT

Table 9. Individual laboratory results for DNA # 1113 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03	03	01	01	04(DP402)	105
805	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
1189	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
1251	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
1647	02	32	18	44	05	12	11	12	3*PRESENT	3*PRESENT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
2347	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
3438	02	32	18	44	05	12	11	12	NT	NT	05	05	03(DQ7)	03(DQ7)	NT	NT	NT	NT
3600	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	NT	NT
4237	02	32	18	44	05	12	11	12	NT	NT	05	05	03(DQ7)	03(DQ7)	NT	NT	04(DP402)	04(DP402)
4420	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03	03	01	01	04(DP402)	04(DP402)
4582	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
4585	02	32	18	44	05	12	11	12	3*02	NT	05	NT	03	NT	01	NT	04(DP402)	NT
8050	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
8092	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
9221	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
9222	02	32	18	44	05	12	11	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
9227	02	32	18	44	05	12	11	12	NT	NT	NT	NT	03	03	NT	NT	NT	NT
9228	02	32	18	44	05	12	11	12	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
9231	02	32	18	44	05	12	11	12	NT	NT	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)
Final Consensus	02	32	18	44	05	12	11	12	3*02	3*02	05	05	03(DQ7)	03(DQ7)	01	01	04(DP402)	04(DP402)

Table 10. Individual laboratory results for DNA # 1114 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2518	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:01:02G	05:01:01G
2862	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01G	NT	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02G	05:01:01G
3410	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	02:01	05:01
3438	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02	05:01:01
3582	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02	05:01:01
3614	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01:02G	4*01:01:01G	4*01:01:01G	03:01	03:02	03:02	03:03	01:03	02:02	02:01:02G	05:01:01G
3625	02:01:01	11:01:01	15:11	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03	NT	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02	05:01:01
3849	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01G	03:01:01G	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02	05:01:01
4237	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01P	4*01:03	4*01:03	03:01P	03:02	03:02P	03:03P	01:03P	02:02P	02:01P	05:01P
4345	02:01:01:01	11:01P	15:11:01	27:04:01	03:03:01G	08:01P	04:06:01	09:01P	4*01:01:01G	4*01:01P	03:01P	03:01P	03:02P	03:03:02:01	01:03:01G	02:02P	02:01P	05:01P
4545	02:01:01G	11:01:01G	15:11	27:04	03:03:01G	08:01	04:06	09:01:02G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	02:01:02G	05:01:01G
4582	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:01:02G	05:01:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02	05:01:01
9226	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:01P	05:01P
9227	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	NT	NT	NT	NT	03:02:01	03:03:02	NT	NT	02:01:02	05:01:01
9228	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01:02G	NT	NT	03:01	03:02	03:02:01G	03:03	01:03	02:02	02:01:02G	05:01:01G
9230	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03	4*01:03:02	03:01:01:01	03:02:01:01	03:02	03:03:02	01:03	02:02	02:01	05:01
9231	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02	05:01:01
9232	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02G	05:01:01G
9233	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01G	09:01:02G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	02:01:02G	05:01:01G
14982	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02	05:01:01
45852	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01G	03:01:01G	03:02:01	03:03:02	01:03:01	02:02:02	02:01:02G	05:01:01G
Final Consensus based on High Resolution	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:01	05:01

Table 11. Individual laboratory results for DNA # 1114 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
124	02:01:01	11:01:01	15:11:01	27:04:01	03:03:01	08:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	01:01:01	02:02:01	02:01:02	05:01:01
155	02:01:01	11:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT	NT
176	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	NT	NT	03:01	03:02	03:02	03:03	01:03	02:02	02:01	05:01	
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	04:06	09:01	NT	NT	03:01	03:02	03:02	03:03	NT	NT	NT	NT	NT
273	02:01P	11:01P	15:11P	27:04P	03:03P	08:01P	04:06P	09:01P	4*01:01P	4*01:01P	03:01P	03:01P	03:02P	03:03P	NT	NT	02:01P	05:01P	
288	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT	NT
292	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT	NT
317	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	4*01:01	4*01:01	03:01	03:02	03:02	03:03	01:03	02:02	02:01	05:01	
1251	NT	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	05:01P	
4420	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	NT	NT	03:01	03:02	03:02	03:03	01:03	02:02	02:01	05:01	
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	11:01	15:11	27:04	03:03	08:01	04:06	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:01	05:01	

Table 12. Individual laboratory results for DNA # 1114 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	11	15(B75)	27	03(Cw9)	08	04	09	4*PRESENT	4*PRESENT	NT	NT	03(DQ8)	03(DQ9)	NT	NT	NT	NT
134	02	11	15	27	03(Cw9)	08	04	09	NT	NT	NT	NT	03(DQ8)	03(DQ9)	NT	NT	02(DP201)	05
139	02	11	15(B75)	27	03(Cw9)	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
144	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
147	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
148	02	11	15	27	03	08	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
158	02	11	NT	NT	03(Cw9)	08	04	09	4*01	4*01	02	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
162	02	11	15	27	03	08	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
189	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	NT	NT
190	02	11	15	27	03	08	04	09	4*PRESENT	4*PRESENT	NT	NT	03(DQ8)	03(DQ9)	NT	NT	NT	NT
192	02	11	15	27	03	08	04	09	4*01	4*01	03	03	03	03	01	02	02(DP201)	05
199	NT	NT	NT	NT	NT	NT	04	09	4*PRESENT	NT	NT	NT	03	04	NT	NT	NT	NT
205	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
207	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
213	02	11	15(B75)	27	03(Cw9)	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
228	02	11	15	27	03	08	04	09	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	11	15	27	03	08	04	09	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
255	02	11	15(B75)	27	NT	NT	04	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	11	15	27	03	08	04	09	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
265	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
266	02	11	15	27	03	08	04	09	NT	NT	03	03	03	03	01	02	02(DP201)	05
267	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
273	02	11	15	27	03	08	04	09	4*01	4*01	03	03	03	03	NT	NT	02(DP201)	05
274	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
279	NT	NT	15(B75)	27	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	02	11	15	27	03	08	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
286	02	11	15	27	03	08	04	09	4*01	NT	03	NT	03	NT	01	02	02(DP201)	05
288	02	11	15	27	03	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	NT	NT	NT	NT
292	02	11	15	27	03	08	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
293	02	11	15	27	03	08	04	09	4*PRESENT	4*PRESENT	03	03	03	03	01	02	02(DP201)	05
294	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	NT	NT	NT	NT
304	02	11	15	27	03	08	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
305	02	11	15	27	03(Cw9)	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	NT	NT	NT	NT
307	02	11	15	27	03	08	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
309	02	11	15	27	03	08	04	09	4*01	4*01	03	03	03	03	01	02	02(DP201)	05
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	11	15	27	03	08	04	09	4*01	4*01	03	03	03	03	01	02	02(DP201)	05
318	02	11	15	27	03	08	04	09	NT	NT	03	03	03	03	01	02	02(DP201)	05
323	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
334	02	11	15(B75)	27	03(Cw9)	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
336	02	11	15	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
337	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
339	02	02	15(B75)	27	03(Cw9)	08	04	09	4*PRESENT	4*PRESENT	NT	NT	03(DQ8)	03(DQ9)	NT	NT	NT	NT
340	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
343	02	11	15	27	03	08	04	09	NT	NT	03	03	03(DQ7)	03(DQ9)	01	02	02(DP201)	05
345	02	11	15	27	NT	NT	04	09	NT	NT	03	03	03	03	NT	NT	02(DP201)	05
350	NT	NT	15	27	03	08	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT

Table 12. Individual laboratory results for DNA # 1114 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	02	11	15	27	03	08	04	09	4*01	4*01	03	03	03	03	01	02	02(DP201)	05
805	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
1189	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
1251	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
1647	02	11	15(B75)	27	03(Cw9)	08	04	09	4*PRESENT	4*PRESENT	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
2347	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
3438	02	11	15(B75)	27	03(Cw9)	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	NT	NT	NT	NT
3600	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	NT	NT
4237	02	11	15(B75)	27	03(Cw9)	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	NT	NT	02(DP201)	05
4420	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
4582	02	11	15	27	03	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
8092	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
9221	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
9227	02	11	15	27	03	08	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
9228	02	11	15(B75)	27	03(Cw9)	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
9231	02	11	15(B75)	27	03(Cw9)	08	04	09	NT	NT	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05
Final Consensus	02	11	15(B75)	27	03(Cw9)	08	04	09	4*01	4*01	03	03	03(DQ8)	03(DQ9)	01	02	02(DP201)	05

Table 13. Individual laboratory results for DNA # 1115 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2518	02:01	03:01	35:03	51:01	04:01	15:06	11:04:01G	14:33	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	04:01:01G	04:02:01G
2862	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	NT	04:01:01G	04:02:01G
3410	02:01	03:01	35:03	51:01	04:01	15:06	11:04	NEW	NT	NT	NT	NT	03:01	06:03	NT	NT	04:01	04:02
3438	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01:01	04:02:01
3582	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01:01	04:02:01
3614	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	3*01:01:02G	3*02:02:01G	01:03	05:05	03:01	06:03	01:03	01:03	04:01:01G	04:02:01G
3625	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01:01	04:02:01
3849	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01:01G	04:02:01G
4237	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04P	14:33	3*01:01P	3*02:02P	01:03P	05:05	03:01P	06:03P	01:03P	01:03P	04:01P	04:02P
4345	02:01:01:01	03:01P	35:03P	51:01P	04:01:01:01	15:06P	11:04P	14:33	3*01:01:02:01	3*02:02:01:01	01:03:01:01	05:01P	03:01:01:01	06:03P	01:03:01:01	01:03:01:01	04:01:01:01	04:02:01:01
4545	02:01:01G	03:01:01G	35:03:01G	51:01:01G	04:01:01G	15:06	11:04	14:33	NT	NT	NT	NT	03:01:01G	06:03:01G	NT	NT	04:01:01G	04:02:01G
4582	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	3*01:01:02G	3*02:02:01G	01:03	05:05	03:01	06:03	01:03	01:03	04:01:01G	04:02:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01:01	04:02:01
9226	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01P	3*02:02P	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01P	04:02P
9227	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	NT	NT	NT	NT	03:01:01	06:03:01	NT	NT	04:01:01	04:02:01
9228	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	NT	NT	01:03	05:05	03:01:01G	06:03	01:03	01:03	04:01:01G	04:02:01G
9230	02:01:01	03:01:01:03	35:03:01	51:01:01	04:01:01	15:06:01	11:04	14:33	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03	01:03	01:03:01	04:01	04:02:01
9231	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01:01	04:02:01
9232	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01:01G	04:02:01G
9233	02:01:01	03:01:01	35:03	51:01	04:01:01	15:06:01	11:04:01G	14:33	NT	NT	NT	NT	03:01:01G	06:03:01G	NT	NT	04:01:01G	04:02:01G
14982	02:01:01	03:01:01	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	01:03:01	04:01:01G	04:02:01G
45852	02:01:01	03:01:01	35:03:01	51:01:01G	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02G	3*02:02:01G	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01	NT	04:01:01G	04:02:01G
Final Consensus based on High Resolution	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	04:01	04:02

Table 14. Individual laboratory results for DNA # 1115 High Resolution

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1	DQB1		DPA1		DPB1			
124	02:01:01	03:01:01:03	35:03:01	51:01:01	04:01:01	15:06:01	11:04:01	14:33	3*01:01:02	3*02:02:01	01:03:01	05:05:01	03:01:01	06:03:01	01:03:01:04	01:03:01	04:01:01	04:02:01
155	02:01:01G	03:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	NT	NT	NT	NT	03:01:01C	06:03	NT	NT	NT	NT
176	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	NT	NT	01:03	05:05	03:01	06:03	01:03	01:03	04:01:01G	04:02:01G
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
273	02:01P	03:01P	35:03P	51:01P	04:01P	15:06P	11:04P	14:33	3*01:01P	3*02:02P	01:03P	05:01P	03:01P	06:03P	NT	NT	04:01P	04:02P
288	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	NT	NT	NT	NT	03:01	06:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	NT	NT	NT	NT	03:01	06:03	NT	NT	NT	NT
317	02:01	03:01	35:03	51:01	04:01	15:05	11:04	14:33	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	04:01	04:02
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
4420	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	3*01:01	3*02:02	01:03	05:05	03:01	06:03	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	02:01	03:01	35:03	51:01	04:01	15:06	11:04	14:33	3*01:01	3*02:02	01:03	05:05	03:01	06:03	01:03	01:03	04:01	04:02

Table 15. Individual laboratory results for DNA # 1115 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	03	35	51	04	15	11	14	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
134	02	03	35	51	04	15	11	14	NT	NT	NT	NT	03(DQ7)	06	NT	NT	04(DP401)	04(DP402)
139	02	03	35	51	04	15	11	14	NT	NT	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
144	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	02	03	35	51	04	15	11	14	NT	NT	NT	NT	03	06	NT	NT	NT	NT
158	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
162	02	03	35	51	04	15	11	14	NT	NT	NT	NT	03	06	NT	NT	NT	NT
189	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	NT	NT
190	02	03	35	51	04	15	11	14	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
192	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03	06	01	01	04(DP401)	04(DP402)
199	NT	NT	NT	NT	NT	NT	07	13	3*PRESENT	NT	NT	NT	03	06	NT	NT	NT	NT
205	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
207	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
228	02	03	35	51	04	15	11	14	3*PRESENT	3*PRESENT	01	05	03	06	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	03	35	51	04	15	11	14	3*PRESENT	3*PRESENT	01	05	03	06	NT	NT	NT	NT
255	02	03	35	51	NT	NT	11	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
266	02	03	35	51	04	15	11	14	NT	NT	01	05	03	03	01	01	04(DP401)	04(DP402)
267	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
273	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03	06	NT	NT	04(DP401)	04(DP402)
274	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
279	NT	NT	35	51	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03	06	01	NT	04(DP401)	04(DP402)
288	02	03	35	51	04	15	11	14	NT	NT	01	05	03	06	NT	NT	NT	NT
292	02	03	35	51	04	15	11	14	NT	NT	01	05	03	06	NT	NT	NT	NT
293	02	03	35	51	04	15	11	14	3*PRESENT	3*PRESENT	01	05	03	06	01	01	04(DP401)	04(DP401)
294	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	NT	NT	04(DP401)	04(DP402)
304	02	03	35	51	04	15	11	14	NT	NT	01	05	03	06	NT	NT	NT	NT
305	02	03	35	51	04	15	11	14	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
307	02	03	35	51	04	15	11	14	NT	NT	01	05	03	06	NT	NT	NT	NT
309	02	03	35	51	04	15	11	14	3*01	3*02	01	04	03	06	01	01	04(DP401)	04(DP402)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03	06	01	01	04(DP401)	04(DP402)
318	02	03	35	51	04	15	11	14	NT	NT	01	05	03	06	01	01	04(DP401)	04(DP402)
323	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
334	02	03	35	51	04	15	11	14	NT	NT	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
336	02	03	51	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	105
337	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
339	02	03	35	51	04	15	11	03(DR17)	3*PRESENT	3*PRESENT	NT	NT	03(DQ7)	06	NT	NT	NT	NT
340	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
343	02	03	35	51	04	15	11	14	NT	NT	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
345	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03	06	01	01	04(DP401)	04(DP402)
350	02	03	35	51	04	15	11	14	NT	NT	01	05	03	06	NT	NT	NT	NT

Table 15. Individual laboratory results for DNA # 1115 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
726	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
732	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03	06	01	01	04(DP401)	04(DP402)
805	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
1189	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
1251	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
1647	02	03	35	51	04	15	11	14	3*PRESENT	3*PRESENT	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
2347	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
3438	02	03	35	51	04	15	11	14	NT	NT	01	05	03(DQ7)	06	NT	NT	NT	NT
3600	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	NT	NT
4237	02	03	35	51	04	15	11	14	NT	NT	01	05	03(DQ7)	06	NT	NT	04(DP401)	04(DP402)
4420	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
4582	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
8092	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	NT
9221	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
9227	02	03	35	51	04	15	11	14	NT	NT	NT	NT	03	06	NT	NT	NT	NT
9228	02	03	35	51	04	15	11	14	NT	NT	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
9231	02	03	35	51	04	15	11	14	NT	NT	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)
Final Consensus	02	03	35	51	04	15	11	14	3*01	3*02	01	05	03(DQ7)	06	01	01	04(DP401)	04(DP402)

Table 16. Individual laboratory results for DNA # 1116 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2518	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	4*01:01P	NP	02:01	04:01	02:02	04:02	02:01	02:01	01:01	17:01
2862	24:02:01	33:01:01	14:02:01	18:01:01G	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NT	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01G	02:01:02	01:01:01	17:01:01
3410	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	NT	NT	NT	NT	02:02	04:02	NT	NT	01:01	17:01
3438	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01	02:01:02	01:01:01	17:01:01
3582	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01	02:01:02	01:01:01	17:01:01
3614	24:02	33:01	14:02	18:01	08:02	12:03	07:01:01G	08:01	4*01:01:01G	NP	02:01	04:01	02:02	04:02	02:01	02:01	01:01:01G	17:01:01G
3625	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NT	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01	02:01:02	01:01:01	17:01:01
3849	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	02:01	02:01	01:01:01	17:01:01
4237	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01P	08:01P	4*01:03	NP	02:01	04:01P	02:02	04:02P	02:01P	02:01P	01:01	17:01
4345	24:02P	33:01P	14:02P	18:01P	08:02P	12:03:01:01	07:01:01:01	08:01P	4*01:01:01G	NP	02:01	04:01P	02:01P	04:02P	02:01P	02:01P	01:01P	17:01P
4545	24:02:01G	33:01:01G	14:02:01G	18:01:01G	08:02	12:03:01G	07:01:01G	08:01:01G	NT	NT	NT	NT	02:01:01G	04:02:01G	NT	NT	01:01:01G	17:01:01G
4582	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	4*01:03	NP	02:01	04:01	02:02	04:02	02:01	02:01	01:01:01G	17:01:01G
4585	NT	33:01:01	NT	NT	NT	NT	NT	NT	NT	NT	02:01:01	04:01:01	02:02:01	04:02:01	NT	NT	01:01:01	17:01:01
6051	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01	02:01:02	01:01:01	17:01:01
9226	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01	02:01:02	01:01P	17:01P
9227	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	NT	NT	NT	NT	02:02:01	04:02:01	NT	NT	01:01:01	17:01:01
9228	24:02	33:01	14:02	18:01	08:02	12:03	07:01:01G	08:01	NT	NT	02:01	04:01	02:01:01G	04:02:01G	02:01	02:01	01:01	17:01
9230	24:02:01	33:01:01:01	14:02:01:01	18:01:01	08:02:01	12:03:01:01	07:01:01	08:01:01	4*01:03	NP	02:01:01	04:01:01	02:02	04:02	02:01:01:03	02:01:02	01:01:01	17:01:01
9231	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01	02:01:02	01:01:01	17:01:01
9232	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01	02:01:02	01:01:01G	17:01:01G
9233	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01G	08:01:01G	NT	NT	NT	NT	02:02:01	04:02:01G	NT	NT	01:01:01G	17:01:01G
14982	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NP	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01G	02:01:02	01:01:01	17:01:01
45852	24:02:01	33:01:01	14:02:01	18:01:01	08:02:01	12:03:01	07:01:01	08:01:01	4*01:03:01	NT	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01G	02:01	01:01:01	17:01:01
Final Consensus based on High Resolution	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	4*01:03	NP	02:01	04:01	02:02	04:02	02:01	02:01	01:01	17:01

Table 17. Individual laboratory results for DNA # 1116 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	24:02:01	33:01:01:01	14:02:01:01	18:01:01	08:02:01	12:03:01	FTA	FTA	FTA	FTA	02:01:01	04:01:01	02:02:01	04:02:01	02:01:01:03	02:01:02:02	01:01:01	17:01:01
155	24:02:01G	33:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	NT	NT	NT	NT	02:02	04:02	NT	NT	NT	NT
176	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	NT	NT	02:01	04:01	02:02	04:02	02:01	02:01	01:01:01G	17:01:01G
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
273	24:02P	33:01P	14:02P	18:01P	08:02P	12:03P	07:01P	08:01P	4*01:01P	NP	02:01	04:01P	02:01P	04:02P	NT	NT	01:01P	17:01P
288	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	NT	NT	NT	NT	02:02	04:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01	04:01	NT	NT	NT	NT	NT	NT
313	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	NT	NT	NT	NT	02:02	04:02	NT	NT	NT	NT
317	24:02	30:01	14:02	18:01	08:02	12:03	07:01	08:01	4*01:01	NP	02:01	04:01	02:02	04:02	02:01	02:01	01:01	17:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	17:01P
4420	24:02	33:03	14:02	18:01	08:02	12:03	07:01	08:02	NT	NT	02:01	04:01	NT	04:02	02:01	02:01	01:01	17:01
8092	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	24:02	33:01	14:02	18:01	08:02	12:03	07:01	08:01	4*01:03	NP	02:01	04:01	02:02	04:02	02:01	02:01	01:01	17:01

Table 18. Individual laboratory results for DNA # 1116 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	24	33	14(B65)	18	08	12	07	08	4*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
134	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
139	24	33	14(B65)	18	08	12	07	08	NT	NT	02	04	02	04	02	02	01	17
144	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	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
158	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
162	24	33	14	18	08	12	07	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
189	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	NT	NT
190	24	33	14(B65)	18	08	12	07	08	4*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
192	24	33	14	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
199	NT	NT	NT	NT	NT	NT	07	13	4*PRESENT	NT	NT	NT	02	04	NT	NT	NT	NT
205	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
207	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
228	24	33	14	18	08	12	07	08	4*PRESENT	NP	02	04	02	04	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	24	33	14	18	08	12	07	08	4*PRESENT	NP	02	04	02	04	NT	NT	NT	NT
255	24	33	14(B65)	18	NT	NT	07	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
266	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	02	02	01	17
267	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
273	24	33	14	18	08	12	07	08	4*01	NP	02	04	02	04	NT	NT	01	17
274	24	33	14	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
279	24	33	14	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
292	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
293	24	33	14	18	08	12	07	08	4*PRESENT	NP	02	04	02	04	02	02	01	17
294	24	33	14(B65)	18	08	12	07	08	4*01	NP	NT	NT	02	04	NT	NT	01	17
304	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
305	24	33	14(B65)	18	08	12	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
307	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
309	24	33	14	18	08	12	07	08	4*01	4*01	02	04	02	04	02	02	01	17
311	24	33	14	18	08	12	07	08	4*01	NP	02	04	02	04	NT	NT	NT	NT
316	24	33	14	18	08	12	07	08	4*01	4*01	02	04	02	04	02	02	01	17
318	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	02	02	01	17
323	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
334	24	33	14(B65)	18	08	12	07	08	NT	NT	02	04	02	04	02	02	01	17
336	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
337	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
339	24	33	14(B65)	18	08	12	07	08	4*PRESENT	NP	NT	NT	02	04	NT	NT	NT	NT
340	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
343	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	02	02	01	17
345	24	33	14	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
350	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT

Table 18. Individual laboratory results for DNA # 1116 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	24	33	14	18	08	12	07	08	NT	NT	02	04	02	04	02	02	01	17
519	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
726	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
732	24	33	14	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
805	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
1189	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
1251	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3438	24	33	14(B65)	18	08	12	07	08	NT	NT	02	04	02	04	NT	NT	NT	NT
3600	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	NT	NT
4237	24	33	14(B65)	18	08	12	07	08	NT	NT	02	04	02	04	NT	NT	01	17
4420	24	33	14(B65)	18	08	12	07	08	4*01	4*01	02	04	02	04	02	02	01	17
4582	24	33	14	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
4585	24	33	14	18	08	12	07	08	4*01	NT	02	04	02	04	02	02	01	17
8050	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
8092	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
9221	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17
9227	24	33	14	18	08	12	07	08	NT	NT	NT	NT	02	04	NT	NT	NT	NT
9228	24	33	14(B65)	18	08	12	07	08	NT	NT	02	04	02	04	02	02	01	17
9231	24	33	14(B65)	18	08	12	07	08	NT	NT	02	04	02	04	02	02	01	17
Final Consensus	24	33	14(B65)	18	08	12	07	08	4*01	NP	02	04	02	04	02	02	01	17

Table 19. Individual laboratory results for DNA # 1117 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2518	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	3*01:62	NP	04:01	04:01	04:02	04:02	01:03	02:02	01:01	04:02:01G
2862	02:01:01	NT	35:17:01	42:01:01G	04:01:01G	17:01:01	03:02:01	08:02:01	3*01:01:02G	NT	NT	NT	04:02:01	NT	01:03:01	02:02:02	01:01:01G	04:02:01G
3410	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	NT	NT	NT	NT	04:02	04:02	NT	NT	01:01	04:02
3438	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:62:01:01	NP	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01:01	04:02:01
3582	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:01:02G	NP	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01:01	04:02:01
3614	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	3*01:01:02G	NP	04:01	04:01	04:02	04:02	01:03	02:02	01:01:01G	04:02:01G
3625	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:01	NT	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01:01	04:02:01
3849	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:62	NP	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01:01	04:02:01
4237	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:01	NP	04:01	04:01	04:02P	04:02P	01:03P	02:02P	01:01	04:02P
4345	02:01P	02:01P	35:17	42:01P	04:01:01G	17:01P	03:02P	08:02P	3*01:01P	NP	04:01P	04:01P	04:02P	04:02P	01:03:01G	02:02P	01:01P	04:02:01:01
4545	02:01:01G	02:01:01G	35:17	42:01:01G	04:01:01G	17:01:01G	03:02	08:02	NT	NT	NT	NT	04:02:01G	04:02:01G	NT	NT	01:01:01G	04:02:01G
4582	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	3*01:62	NP	04:01	04:01	04:02	04:02	01:03	02:02	01:01	04:02
4585	NT	NT	NT	NT	NT	NT	03:02:01	NT	NT	NT	04:01:01	NT	04:02:01	NT	01:03:01	NT	01:01	NT
6051	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:62	NP	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01:01	04:02:01
9226	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:01P	NP	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01P	04:02P
9227	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	NT	NT	NT	NT	04:02:01	04:02:01	NT	NT	01:01:01	04:02:01
9228	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	NT	NT	04:01	04:01	04:02:01G	04:02	01:03	02:02	01:01	04:02:01G
9230	02:01:01	02:01:01	35:17:01:01	42:01:01:01	04:01:01	17:01:01:02	03:02:01	08:02:01	3*01:62	NP	04:01:01	04:01:01	04:02	04:02	01:03:01	02:02:02	01:01:01	04:02:01
9231	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:62:01:01	NP	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01:01	04:02:01
9232	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:62	NP	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01:01	04:02:01
9233	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	NT	NT	NT	NT	04:02:01G	04:02:01G	NT	NT	01:01:01G	04:02:01G
14982	02:01:01	02:01:01	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:01:02G	NP	04:01:01	04:01:01	04:02:01	04:02:01	01:03:01	02:02:02	01:01:01	04:02:01
45852	02:01:01	NT	35:17:01	42:01:01	04:01:01	17:01:01	03:02:01	08:02:01	3*01:01:02G	NT	04:01:01	NT	04:02:01	NT	01:03:01	02:02:02	01:01:01G	04:02:01G
Final Consensus based on High Resolution	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	NG	NP	04:01	04:01	04:02	04:02	01:03	02:02	01:01	04:02

Table 20. Individual laboratory results for DNA # 1117 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	02:01:01	02:01:01	35:17:01	42:01:01:01	04:01:01	17:01:01	FTA	FTA	FTA	FTA	04:01:01	04:01:01	04:02:01	04:02:01:08	01:03:01	02:02:02	01:01:01	04:02:01
155	02:01:01G	02:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	02:01	35:17	42:01	04:01:01G	17:01:01G	03:02	08:02	NT	NT	NT	NT	04:02	04:02	NT	NT	NT	NT
176	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	NT	NT	04:01	04:01	04:02	04:02	01:03	02:02	01:01	04:02
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	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
273	02:01P	02:01P	35:17	42:01P	04:01P	17:01P	03:02P	08:02P	3*01:01P	NP	04:01P	04:01P	04:02P	04:02P	NT	NT	01:01P	04:02P
288	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	NT	NT	NT	NT	04:02	04:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	02:01	35:17	42:01	04:01	17:01	03:02	08:02	NT	NT	NT	NT	04:02	04:02	NT	NT	NT	NT
317	02:01	02:01	35:17	42:01	04:01	17:01	04:02	08:02	3*01:01	NP	04:01	04:01	04:02	04:02	01:03	02:02	01:01	04:02
1251	02:01:01G	02:01:01G	35:17:01	42:01:01G	04:01:01G	17:01:01G	03:02:01	08:02:01	3*01:01:02G	NP	NT	NT	04:02:01G	04:02:01G	NT	NT	01:01:01G	04:02:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	04:02P
4420	02:01	02:01	35:01	42:01	04:01	17:01	03:02	08:02	3*01:01	3*01:02	04:01	04:01	04:02	04:02	01:03	02:02	01:01	04:02
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	35:17	42:01	04:01	17:01	03:02	08:02	NG	NP	04:01	04:01	04:02	04:02	01:03	02:02	01:01	04:02

Table 21. Individual laboratory results for DNA # 1117 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	02	02	35	42	04	17	03(DR18)	08	3*PRESENT	NP	NT	NT	04	04	NT	NT	NT	NT
134	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
139	02	02	35	42	04	17	03(DR18)	08	NT	NT	04	04	04	04	01	02	01	04(DP402)
144	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02	02	35	42	04	17	03	08	NT	NT	NT	NT	04	04	NT	NT	NT	NT
189	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	NT	NT
190	02	02	35	42	04	17	03(DR18)	08	3*PRESENT	NP	NT	NT	04	04	NT	NT	NT	NT
192	02	02	35	42	04	17	03	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
199	NT	NT	NT	NT	NT	NT	03	08	3*PRESENT	NT	NT	NT	04	NT	NT	NT	NT	NT
205	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
207	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
228	02	02	35	42	04	17	03	08	3*PRESENT	NP	04	04	04	04	NT	NT	NT	NT
242	02	NT	35	42	04	17	03	08	3*PRESENT	NT	04	NT	04	NT	NT	NT	NT	NT
252	02	02	35	42	04	17	03	08	3*PRESENT	NP	04	04	04	04	NT	NT	NT	NT
255	02	02	35	42	NT	NT	03(DR18)	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
266	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	01	02	01	04(DP402)
267	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
273	02	02	35	42	04	17	03	08	3*01	NP	04	04	04	04	NT	NT	01	04(DP402)
274	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
279	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	NT	NT	NT	NT
292	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	NT	NT	NT	NT
293	02	02	35	42	04	17	03	08	3*PRESENT	NP	04	04	04	04	01	02	01	04(DP401)
294	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	NT	NT	01	04(DP402)
304	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	NT	NT	NT	NT
305	02	02	35	42	04	17	03(DR18)	08	NT	NT	04	04	04	04	NT	NT	NT	NT
307	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	NT	NT	NT	NT
309	02	02	35	42	04	17	03	08	3*01	3*01	04	04	04	04	03	02	01	04(DP402)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	02	35	42	04	17	03	08	3*01	3*01	04	04	04	04	01	02	01	04(DP402)
318	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	01	02	01	04(DP402)
323	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
334	02	02	35	42	04	17	03(DR18)	08	NT	NT	04	04	04	04	01	02	01	04(DP402)
336	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
337	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
339	02	02	35	42	04	17	03(DR18)	08	3*PRESENT	NP	NT	NT	04	04	NT	NT	NT	NT
340	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
343	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	01	02	01	04(DP402)
345	02	02	35	42	04	17	03	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
350	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	NT	NT	NT	NT

Table 21. Individual laboratory results for DNA # 1117 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	02	02	35	42	04	17	03	08	NT	NT	04	04	04	04	01	02	01	04(DP402)
519	02	02	35	42	04	17	03	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
726	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
732	02	02	35	42	04	17	03	08	3*01	NP	04	04	04	04	NT	NT	01	04(DP402)
805	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
1189	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
1251	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3438	02	02	35	42	04	17	03(DR18)	08	NT	NT	04	04	04	04	NT	NT	NT	NT
3600	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	NT	NT
4237	02	02	35	42	04	17	03(DR18)	08	NT	NT	04	04	04	04	NT	NT	01	04(DP402)
4420	02	02	35	42	04	17	03(DR18)	08	3*01	3*01	04	04	04	04	01	02	01	04(DP402)
4582	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
4585	02	NT	35	42	04	17	03	08	3*01	NT	04	NT	04	NT	01	02	01	04(DP402)
8050	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
8092	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
9221	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
9227	02	02	35	42	04	17	03	08	NT	NT	NT	NT	04	04	NT	NT	NT	NT
9228	02	02	35	42	04	17	03(DR18)	08	NT	NT	04	04	04	04	01	02	01	04(DP402)
9231	02	02	35	42	04	17	03(DR18)	08	NT	NT	04	04	04	04	01	02	01	04(DP402)

Final Consensus	02	02	35	42	04	17	03(DR18)	08	3*01	NP	04	04	04	04	01	02	01	04(DP402)
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Table 22. Individual laboratory results for DNA # 1118 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
2518	11:01	68:03	27:05	39:05	01:02	07:02	01:01:01G	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	01:03	01:03	04:01:01G	04:02:01G
2862	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01G	4*01:03:02	NT	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	NT	04:01:01G	04:02:01G
3410	11:01	68:03	27:05	39:05	01:02	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	04:01	04:02
3438	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01:01	04:02:01
3582	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01:01	04:02:01
3614	11:01	68:03	27:05	39:05	01:02	07:02	01:01:01G	04:07	4*01:01:01C	NP	01:01	03:01	03:02	05:01	01:03	01:03	04:01:01G	04:02:01G
3625	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NT	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01:01	04:02:01
3849	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01:01G	04:02:01G
4237	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01P	04:07P	4*01:03	NP	01:01P	03:01P	03:02P	05:01P	01:03P	01:03P	04:01P	04:02P
4345	11:01P	68:03P	27:05P	39:05P	01:02P	07:02P	01:01P	04:07P	4*01:01:01C	NP	01:01P	03:01P	03:02P	05:01:01:01	01:03:01:01	01:03:01:01	04:01:01:01	04:02:01:01
4545	11:01:01G	68:03	27:05:02G	39:05:01G	01:02:01G	07:02:01G	01:01:01G	04:07:01G	NT	NT	NT	NT	03:02:01G	05:01:01G	NT	NT	04:01:01G	04:02:01G
4582	11:01	68:03	27:05	39:05	01:02	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	01:03	01:03	04:01:01G	04:02:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01:01	04:02:01
9226	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:01P	NP	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01P	04:02P
9227	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	NT	NT	NT	NT	03:02:01	05:01:01	NT	NT	04:01:01	04:02:01
9228	11:01	68:03	27:05	39:05	01:02	07:02	01:01:01G	04:07	NT	NT	01:01	03:01	03:02:01G	05:01:01G	01:03	01:03	04:01:01G	04:02:01G
9230	11:01:01	68:03:01:01	27:05:02	39:05:01:01	01:02:01	07:02:01	01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01:01	03:02	05:01:01	01:03:01	01:03:01	04:01	04:02:01
9231	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01:01	04:02:01
9232	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01:01G	04:02:01G
9233	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01G	04:07:01G	NT	NT	NT	NT	03:02:01G	05:01:01G	NT	NT	04:01:01G	04:02:01G
14982	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NP	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	01:03:01	04:01:01G	04:02:01G
45852	11:01:01	68:03:01	27:05:02	39:05:01	01:02:01	07:02:01	01:01:01	04:07:01	4*01:03:02	NT	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01	NT	04:01:01G	04:02:01G
Final Consensus based on High Resolution	11:01	68:03	27:05	39:05	01:02	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	01:03	01:03	04:01	04:02

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

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	11:01:01	68:03:01:01	27:05:02	39:05:01:01	01:02:01	07:02:01	01:01:01	04:07:01	FTA	FTA	01:01:01	03:01:01	03:02:01	05:01:01	01:03:01:02	01:03:01	04:01:01	04:02:01
155	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	11:01	68:03	27:05	39:05	01:02	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	NT	NT
176	11:01	68:03	27:05	39:05	01:02	07:02	01:01	04:07	NT	NT	01:01	03:01	03:02	05:01	01:03	01:03	04:01:01G	04:02:01G
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:01	03:01	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
273	11:01P	68:03P	27:05P	39:05P	01:02P	07:02P	01:01P	04:07P	4*01:01P	NP	01:01P	03:01P	03:02P	05:01P	NT	NT	04:01P	04:02P
288	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	11:01	68:03	27:05	39:05	01:02	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	11:01	68:03	27:05	39:05	01:02	07:02	01:01	04:07	NT	NT	NT	NT	03:02	05:01	NT	NT	NT	NT
317	11:01	68:03	27:03	39:05	01:02	07:02	01:01	04:07	4*01:01	NP	01:01	03:01	03:02	05:01	01:03	01:03	04:01	04:02
1251	11:01:01G	68:03:01	27:05:02G	39:05:01G	01:02:01G	07:02:01G	01:01:01G	04:07:01G	4*01:03	NP	NT	NT	03:02:01G	05:01:01G	NT	NT	04:01:01G	04:02:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
4420	11:01	68:03	27:05	39:05	01:02	07:02	01:01	04:07	NT	NT	01:01	03:01	03:02	05:01	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	68:03	27:05	39:05	01:02	07:02	01:01	04:07	4*01:03	NP	01:01	03:01	03:02	05:01	01:03	01:03	04:01	04:02

Table 24. Individual laboratory results for DNA # 1118 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
126	11	68	27	39	01	07	01	04	4*PRESENT	NP	NT	NT	03(DQ8)	05	NT	NT	NT	NT
134	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
139	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
144	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	11	68	27	39	01	07	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
189	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	NT	NT
190	11	68	27	39	01	07	01	04	4*PRESENT	NP	NT	NT	03(DQ8)	05	NT	NT	NT	NT
192	11	68	27	39	01	07	01	04	4*01	NP	01	03	03	05	01	01	04(DP401)	04(DP402)
199	NT	NT	NT	NT	NT	NT	07	04	4*PRESENT	NT	NT	NT	03	05	NT	NT	NT	NT
205	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
207	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
228	11	68	27	39	01	07	01	04	4*PRESENT	NP	01	03	03	05	NT	NT	NT	NT
242	11	68	27	39	01	07	01	04	4*PRESENT	NT	01	03	03	05	NT	NT	NT	NT
252	11	68	27	39	01	07	01	04	4*PRESENT	NP	01	03	03	05	NT	NT	NT	NT
255	11	68	27	39	NT	NT	01	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
266	11	68	27	39	01	07	01	04	NT	NT	01	03	03	05	01	01	04(DP401)	04(DP402)
267	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
273	11	68	27	39	01	07	01	04	4*01	NP	01	03	03	05	NT	NT	04(DP401)	04(DP402)
274	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
279	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	11	68	27	39	01	07	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
292	11	68	27	39	01	07	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
293	11	68	27	39	01	07	01	04	4*PRESENT	NP	01	03	03	05	01	01	04(DP401)	04(DP401)
294	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	NT	NT	04(DP401)	04(DP402)
304	11	68	27	39	01	07	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
305	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	NT	NT	NT	NT
307	11	68	27	39	01	07	01	04	NT	NT	01	03	03	05	NT	NT	NT	NT
309	11	68	27	39	01	07	01	04	4*01	4*01	01	03	03	05	01	01	04(DP401)	04(DP402)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	11	68	27	39	01	07	01	04	4*01	4*01	01	03	03	05	01	01	04(DP401)	04(DP402)
318	11	68	27	39	01	07	01	04	NT	NT	01	03	03	05	01	01	04(DP401)	04(DP402)
323	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
334	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
336	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
337	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
339	11	68	27	39	01	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
340	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
343	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
345	11	68	27	39	01	07	01	04	4*01	NP	01	03	03	05	01	01	04(DP401)	04(DP402)
350	11	68	18	39	01	07	01	04	NT	NT	01	01	03	05	NT	NT	NT	NT

Table 24. Individual laboratory results for DNA # 1118 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	11	68	27	39	01	07	01	04	NT	NT	01	03	03	05	01	01	04(DP401)	04(DP401)
519	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
726	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
732	11	68	27	39	01	07	01	04	4*01	NP	01	03	03	05	01	01	04(DP401)	04(DP402)
805	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
1189	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
1251	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
1647	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2347	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
3438	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	NT	NT	NT	NT
3600	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	NT	NT
4237	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	NT	NT	04(DP401)	04(DP402)
4420	11	68	27	39	01	07	01	04	4*01	4*01	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
4582	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8050	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
8092	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	NT
9221	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
9227	11	68	27	39	01	07	01	04	NT	NT	NT	NT	03	05	NT	NT	NT	NT
9228	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
9231	11	68	27	39	01	07	01	04	NT	NT	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)
Final Consensus	11	68	27	39	01	07	01	04	4*01	NP	01	03	03(DQ8)	05	01	01	04(DP401)	04(DP402)

Table 25. Individual laboratory results for DNA # 1113 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:01:01	01:03:02	01:01:01	01:01:02	01:01:01	01:01:22	01:01:01	02:03:02	002:01	005:02	CareDx 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	002:01/002:03/018:01	003:01/005:02/005:08/006/010/019:01/038	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:01:02	01:01:01	01:01:22	01:01:01	02:03:02	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:23-1780	
1686	01:01:01:--	01:03:02:--	01:01:01:--	01:01:02:10	01:01:01:01	01:01:22:01	01:01:01:01	02:03:02	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	01:01:02	01:01:01	01:01:22	01:01:01	02:03:02	002:01	005:02	NGS-Tx17	

Table 26. Individual laboratory results for DNA # 1114 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:03:1	01:03:02	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	005:02	005:02	CareDx Tx17	
192	01:03/01:06/01:10/01:11/01:122/01:123/01:138/01:145/01:147	01:03/01:17/01:120/01:133/01:136/01:141N/01:149/01:150	NT	NT	NT	NT	NT	NT	003:01/005:02/05:08/006/010	003:01/005:02/005:08/006/010	NGS-INH	
227	01:03:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:23-1780	
1686	01:03:01:01	01:03:02:--	01:01:01:--	01:01:01:--	01:01:01:01	01:01:01:01	01:01:01:01	01:01:01:01	005:02	005:02	NGS-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
9232	01:03:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	005:02	005:02	NGS-Tx17	

Table 27. Individual laboratory results for DNA # 1115 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments
189	01:01:01	01:03:01	01:01:01	01:03:01	01:01:01	01:01:01	01:01:01	02:04:01	004:01/028	005:02/010	CareDx 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	003:01/005:02/05:08/006/010	004:01/028	NGS-INH	
227	01:01:01	01:03:01	01:01:01	01:03:01	01:01:01	01:01:01	01:01:01	02:04:01	004:01	005:02	NGS-CareDx Alloseq Tx17 lot:23-1780	
1686	01:01:01:--	01:03:01:01	01:01:01:--	01:03:01:--	01:01:01:05	01:01:01:09	01:01:01:04	02:04:01	see comments	see comments	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 MICB: Ambiguity MICB*004:01 + MICB*005:02 or MICB*010 + MICB*028
9232	01:01:01	01:03:01	01:01:01	01:03:01	01:01:01	01:01:01	01:01:01	02:04:01	004:01	005:02	NGS-Tx17	

Table 28. Individual laboratory results for DNA # 1116 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	01:03:01	01:04:01	02:12	02:12	005:02	005:02	CareDx 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	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	NT	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	003:01/005:02/005:08/006/010	NGS-INH	
227	01:01:01	01:03:01	01:01:01	01:03:01	01:01:01	01:01:01	01:01:01	02:04:01	004:01	005:02	NGS-CareDx Alloseq Tx17 lot:23-1780		
1686	01:01:01:--	01:01:01:--	01:01:01:09	01:01:02:--	01:03:01:02	01:04:01:01	02:12	DEL	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 HLA-F: F*01:01:02:07 or F*01:01:02:11	
9232	01:01:01	01:01:01	01:01:01	01:01:02	01:03:01	01:04:01	02:12	DEL	005:02	005:02	NGS-Tx17		

Table 29. Individual laboratory results for DNA # 1117 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	002:01	005:02	CareDx 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	NT	002:01/002:03/018:01	003:01/005:02/005:08/006/010/019:01/038	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:02	01:01:01	01:01:01	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:23-1780		
1686	01:01:01:--	01:03:02:--	01:01:01:--	01:01:01:09	01:01:01:01	01:01:02:01	01:01:01:01	01:01:01:05	002:01	005:02	NGS-AlloSeq Tx17	HLA-E: Ambiguity E*01:01:01:01/20 + E*01:03:02:06 = E*01:01:01:03 + E*01:03:02:01/32 HLA-F: F*01:01:01:01 or F*01:01:01:17	
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	002:01	005:02	NGS-Tx17		

Table 30. Individual laboratory results for DNA # 1118 High Resolution

CENTER	HLA-E		HLA-F		HLA-G		HLA-H		MICB		Methods	Comments	
189	01:01:01	01:01:01	01:01:02	01:01:02	01:01:02	01:01:03	02:05:01	02:07:01	005:02	005:02	CareDx 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	01:01/01:09/01:12/01:13/01:14/01:15/01:118/01:119/01:121/01:124/01:125/01:127/01:129/01:130/01:131/01:134/01:135/01:139N/01:140/01:142/01:143/01:144/01:146/01:148	NT	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	003:01/005:02/005:08/006/010	NGS-INH	
227	01:01:01	01:01:01	01:01:02	01:01:02	01:01:02	01:01:03	02:05:01	02:07:01	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:23-1780		
1686	01:01:01:--	01:01:01:--	01:01:02:08	01:01:02:09	01:01:02:01	01:01:03:03	02:05:01:01	02:07:01:01	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 MICB: Ambiguity MICB*004:01 + MICB*005:02 or MICB*010 + MICB*028	
9232	01:01:01	01:01:01	01:01:02	01:01:02	01:01:02	01:01:03	02:05:01	02:07:01	005:02	005:02	NGS-Tx17		

DNA Exchange - 182 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
139	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO			NGS-PRO		NGS-PRO
144	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
147	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX	NGS-OL-OMX
148	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS			GIL-NGS		GIL-NGS
155	LT-SBT								
160	IMM-NGS GIL-SBT	IMM-NGS GIL-SBT	IMM-NGS GIL-SBT	OL-SSO IMM-NGS GIL-SBT	IMM-NGS GIL-SBT	OL-SSO IMM-NGS GIL-SBT	OL-SSO IMM-NGS GIL-SBT	OL-SSO IMM-NGS GIL-SBT	OL-SSO IMM-NGS GIL-SBT
162	BS-SBT	BS-SBT	BS-SBT	BS-SBT			BS-SBT		
173	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
176	INH-SBT	INH-SBT	INH-SBT	INH-SBT		INH-SBT	INH-SBT	INH-SBT	INH-SBT
185	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS		INH-NGS
188	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS		GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
189	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
190	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
192	GIL-INH-NGS	GIL-INH-NGS	GIL-INH-NGS	GIL-INH-NGS	GIL-INH-NGS	GIL-INH-NGS	GIL-INH-NGS	GIL-INH-NGS	GIL-INH-NGS
193	SBT-SC NGS-OL LUM-OL-SSO	SBT-SC NGS-OL LUM-OL-SSO	SBT-SC NGS-OL LUM-OL-SSO	SBT-SC OL-SSP NGS-OL LUM-OL-SSO	NGS-OL	NGS-OL	SBT-SC NGS-OL LUM-OL-SSO	NGS-OL	SBT-SC NGS-OL
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	OLE-SSP HM-NGS	OLE-SSP HM-NGS	HM-NGS	HM-NGS	OLE-SSP HM-NGS
218	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS		INH-NGS		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	HT-SSO	HT-SSO GIL-NGS		OLE-SSP HT-SSO GIL-NGS
239	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
240	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSP OL-SSO GD-NGS	OL-SSO GD-NGS	OL-SSO GD-NGS
242						OLE-SSP			
245	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	IMM-NGS	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 LUM-SSO		OLE-SSP LUM-SSO	OLE-SSP LUM-SSO		
264	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG
266	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
267	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO	NGS-OL LUM-OL-SSO
273	OLE-SSP BAG-SSO	OLE-SSP BAG-SSO	OLE-SSP BAG-SSO	OLE-SSP BAG-SSO	OLE-SSP	OLE-SSP BAG-SSO	OLE-SSP BAG-SSO		OLE-SSP
274	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
279	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	OLE-SSP	OLE-SSP NGS-OMX	NGS-OMX	OLE-SSP	OLE-SSP NGS-OMX
280	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
288							OLE-SSP		
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
307	OL-SSP NGS-OL	OL-SSP NGS-OL	OL-SSP NGS-OL	NGS-OL		OL-SSP NGS-OL	NGS-OL	NGS-OL	NGS-OL
311						OL-OLE-SSP			
313	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG			SBT-TBG		
316	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
317	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO	LUM-OL-SSO
321	OL-SSO NGS-OL	OL-SSO NGS-OL	OL-SSO NGS-OL	OL-SSO NGS-OL	NGS-OL	OL-SSO NGS-OL	OL-SSO NGS-OL	NGS-OL	OLE-SSP NGS-OL
323	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX			NGS-OMX		NGS-OMX
340	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
345	GIL-SBT GIL-NGS	GIL-OLE-SBT GIL-OLE-NGS	GIL-SBT GIL-OLE-NGS	GIL-SBT GIL-OLE-NGS		GIL-NGS	GIL-SBT GIL-NGS		GIL-NGS
349	NGS-OMX	NGS-OMX							
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 GD-SBT	NGS-OL GD-SBT	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
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								
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		PRO-SBT
1426	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG
1647	Other-Others GD-NGS	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
2347	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
2518	OL-SSO GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	OL-SSO GIL-NGS	OL-SSO 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-SSP GIL-NGS	GIL-NGS	GIL-NGS	GV-SSP GIL-NGS			GIL-NGS		OL-SSO GIL-NGS
3438	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE
3582	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3600									LS-rfPCR
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	GIL-INH-NGS	GIL-INH-NGS	GIL-INH-NGS	GIL-IL-NGS	GIL-IL-NGS	GIL-IL-NGS	GIL-IL-NGS	GIL-IL-NGS	GIL-IL-NGS

Participants and Methods Low Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
4237	GD-NGS	GD-NGS	GD-NGS	SBT-TBG GD-NGS	OLE-SSP	OLE-SSP	GD-NGS	IMM-LUM-OL-SSO	LUM-OL-SSO GD-NGS
4345	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO	NGS-PRO
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK	SSO-WAK	LC-SSO	SSO-WAK
4545	SBT-SC OL-SSO	SBT-SC OL-SSO	SBT-SC OL-SSO	SBT-SC OL-SSO NGS-OL			SBT-SC OL-SSO		SBT-SC OL-SSO
4582	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
6051	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS	IL-NGS
8092									LS-rtPCR
9226	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
9227	GIL-NGS	GIL-NGS	GIL-NGS	OLE-SSP GIL-NGS			OLE-SSP GIL-NGS		GIL-NGS
9228	NGS-OL	NGS-OL	NGS-OL	NGS-OL		NGS-OL	NGS-OL	NGS-OL	NGS-OL
9230	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS	GIL-NGS
9231	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS	INH-NGS
9232	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
14982	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
45852	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS	IL-OL-NGS

DNA Exchange - 182 Participants and Methods Low Resolution

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
126	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG		SSP-TBG		
134	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	LS-rtPCR	LS-rtPCR	OLE-SSP	LS-rtPCR	OLE-SSP
	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR			LS-rtPCR		
139	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO
144	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
147	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR	CQ-rtPCR
148	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO			BAG-SSO		
162	BS-SSP	BS-SSP	BS-SSP	BS-SSP			BS-SSP		
189	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
190	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP		OLE-SSP		
192	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
199				OL-SSP	OL-SSP		OL-SSP		
205	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
207	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR	LS-rtPCR
	IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO	IMM-SSO	IMM-SSO
213	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP		INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP	INN-OLE-SSP
215		BR-SSP	BR-SSP	OLE-SSP	OLE-SSP		OLE-SSP		
227	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
228	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	
242	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP	OLE-SSP		
252	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP	INT-SSP
255	OL-SSO	OL-SSO		OL-SSO					
262	PRO-SSP	PRO-SSP	LUM-SSO	PRO-RO-SSP	PRO-SSP	OLE-SSP	PRO-SSP		
	LUM-SSO	LUM-SSO	BR-PRO-SSP	LUM-SSO		LUM-SSO	LUM-SSO		
265	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
266	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO	OL-SSO	OL-SSO
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	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO	BAG-PRO-SSP	BAG-SSO	BAG-SSO		
	BAG-PRO-SSP	BAG-PRO-SSP	BAG-PRO-SSP	BAG-PRO-SSP	BAG-PRO-SSO		BAG-PRO-SSP		
274	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSP OL-SSO	OL-SSO	Other-Others	Other-Others
279	LB-SSP	LB-OLE-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP	LB-SSP
285	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO		LUM-SSO	LUM-SSO		
286	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
288	BAG-SSO	BAG-SSO	BAG-SSO	BAG-SSO		BAG-SSO	BAG-SSO		
292	OL-SSO	OL-SSO	OL-SSO	OL-SSO		OL-SSO	OL-SSO		
293	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	Other-Others LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO	LUM-SSO
294	Other-Others	Other-Others	Other-Others	Other-Others	OLE-SSP	LS-SSP IMM-SSO	Other-Others	LS-OLE-SSP IMM-SSO	LS-OLE-SSP
	LS-OLE-SSP	LS-OLE-SSP	LS-OLE-SSP	LS-OLE-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		
307	IMM-SSP	IMM-SSO	IMM-SSO	IMM-SSO		IMM-SSO	IMM-SSO		
	IMM-SSO								
309	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO
311	PRO-SSP	PRO-SSP	PRO-SSP	PRO-SSP	PRO-SSP	OLE-SSP	PRO-SSP		
316	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO	OL-SSO

Participants and Methods Low Resolution

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