

UCLA INTERNATIONAL HLA DNA EXCHANGE—176TH SUMMARY



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DNA Sample	
#1077	#1080
#1078	#1081
#1079	#1082

DNA #1077 UNKNOWN

The consensus type for this sample from an Unknown donor is A*02:01-A*29:02-B*14:02-B*15:01-C*03:03-C*08:02-DRB1*07:01-DRB1*13:01-DRB3*02:02-DRB4*01:01-DQA1*01:03-DQA1*02:01-DQB1*02:02-DQB1*06:03-DPA1*01:03-DPA1*01:04-DPB1*04:01-DPB1*15:01.

The likely class I associations for this cell are A*02:01-B*15:01-C*03:03 and A*29:02-B*14:02-C*08:02, with respective frequencies of HF=0.01642 and HF=0.00049, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1077 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9. The results for DNA #1077 HLA-E, -F, -G, -H, and MICB data can be found on Table 25.

DNA #1078 ASIAN

The consensus type for this sample from an Asian donor is A*02:06-A*02:07-B*15:27-B*46:01-C*01:02-C*04:01-DRB1*09:01-DRB1*14:54-DRB3*02:02-DRB4*01:03-DQA1*01:04-DQA1*03:02-DQB1*03:03-DQB1*05:03-DPA1*02:02-DPB1*02:01-DPB1*02:02.

The likely class I associations in this cell are A*02:06-B*15:27-C*04:01 and A*02:07-B*46:01-C*01:02, with respective frequencies of HF=0.00057 and HF=0.03251, as seen exclusively in Asians, according to the NMDP Bioinformatics website.

The results for DNA #1078 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12. The results for DNA #1078 HLA-E, -F, -G, -H, and MICB data can be found on Table 26.

DNA #1079 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A*02:01-A*24:02-B*07:02-B*44:23:01N-C*05:01-C*07:02-DRB1*04:08-DRB1*15:01-DRB4*01:03-DRB5*01:01-DQA1*01:02-DQA1*03:03-DQB1*03:04-DQB1*06:02-DPA1*01:03-DPB1*04:01:01G-DPB1*04:02P.

The likely class II associations for this cell are DRB1*04:08-DQB1*03:04 and DRB1*15:01-DQB1*06:02, with respective frequency of HF=0.00044 and HF=0.14155, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1079 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15. The results for DNA #1079 HLA-E, -F, -G, -H, and MICB data can be found on Table 27.



DNA Sample	
#1077	#1080
#1078	#1081
#1079	#1082

DNA #1080 HISPANIC

The consensus type for this sample from a Hispanic donor is A*01:01-A*24:02-B*35:14-B*40:01-C*03:04-C*04:01-DRB1*04:01-DRB1*16:02-DRB4*01:03-DRB5*02:02-DQA1*03:03-DQA1*05:05-DQB1*03:01-DPA1*01:03-DPA1*02:01-DPB1*04:02:01G-DPB1*17:01.

The consensus for the DQB allele was DQB1*03:01 and DQB1*03:01. Interestingly, a total of 11 participants reporting NGS results could not exclude DQB1*03:276N. "DQB*3:276N contains a 3.7kbp deletion upstream of intron 1 which is the location of the 5'DQB1 primer binding site. Therefore, in an individual who is homozygous for DQB1*03:01:01, it is not possible to exclude the presence of DQB1*03:276N on the other chromosome." (*Prospecting the MHC: A Bioinformatic View of HLA Polymorphism and Gene Organization* (Benedict Mark Matern, 2020. Maastricht, The Netherlands; page 128)).

The likely class I associations in this cell are A*01:01-B*40:01-C*03:04 and A*24:02-B*35:14-C*04:01, with respective frequencies of HF=0.00112 and HF=0.00150, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1080 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18. The results for DNA #1080 HLA-E, -F, -G, -H , and MICB data can be found on Table 28.

DNA #1081 ASIAN

The consensus type for this sample from an Asian donor is A*02:03-A*11:01-B*15:27-B*55:02-C*01:02-C*04:01-DRB1*04:06-DRB1*09:01-DRB4*01:03-DQA1*03:01-DQA1*03:02-DQB1*03:02-DQB1*03:03-DPA1*02:02-DPB1*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 exclusively in Asians, according to the NMDP Bioinformatics website.

The results for DNA #1081 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21. The results for DNA #1081 HLA-E, -F, -G, -H , and MICB data can be found on Table 29.

DNA #1082 HISPANIC

The consensus type for this sample from a Hispanic donor is A*02:01-A*03:02-B*27:05-B*51:01-C*01:02-C*15:02-DRB1*07:01-DRB1*16:01-DRB4*01:01-DRB5*02:06-DQA1*01:02-DQA1*02:01-DQB1*02:02-DQB1*05:02-DPA1*01:04-DPA1*02:01-DPB1*11:01-DPB1*15:01.

The likely class I associations in this cell are A*02:01-B*27:05-C*01:02 and A*03:02-B*51:01-C*15:02, with respective frequencies of HF=0.00127 and HF=0.00051, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1082 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24. The results for DNA #1082 HLA-E, -F, -G, -H , and MICB data can be found on Table 30.

ACKNOWLEDGMENTS:

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Table 1. Summary of the 176th DNA Exchange (DNA #1077)

A				B				C			
62 labs High / 66 labs Low		% (n)		64 labs High / 66 labs Low		% (n)		62 labs High / 63 labs Low		% (n)	
<i>A*01:01:01:01</i>	2 (1)	A*29:02:01:01	10(6)	B*14:02:01:01	8 (5)	B*15:01:01:01	3 (2)	C*03:03:01:01	2 (1)	C*08:02:01:01	2 (1)
A*02:01:01	47(29)	A*29:02:01	39(24)	B*14:02:01	41(26)	B*15:01:01	46(29)	C*03:03:01	45(28)	C*08:02:01	46(28)
A*02:01:01G	5 (3)	A*29:02:01G	5 (3)	B*14:02:01G	5 (3)	B*15:01:01G	5 (3)	C*03:03:01G	3 (2)	C*08:02:01G	3 (2)
A*02:01P	2 (1)	A*29:02P	2 (1)	B*14:02P	2 (1)	B*15:01P	2 (1)	C*03:03P	2 (1)	C*08:02P	2 (1)
A*02:01	45(28)	A*29:02	43(27)	B*14:02	44(28)	B*15:01	44(28)	C*03:03	48(30)	C*08:02	47(29)
A*02	100(66)	<i>A*29:01</i>	2 (1)	<i>B*14:01</i>	2 (1)	B*15	100(66)	C*03	100(63)	C*08	100(63)
		A*29	100(66)	B*14	100(66)						
DRB1				DRB3/4/5				DQA1			
65 labs High / 67 labs Low		% (n)		46 labs High / 42 labs Low		% (n)		53 labs High / 51 labs Low		% (n)	
DRB1*07:01:01	37(24)	DRB1*13:01:01	35(23)	DRB3*02:02:01	49(22)	DRB4*01:01:01	46(21)	DQA1*01:03:01	45(24)	DQA1*02:01:01	45(24)
DRB1*07:01:01G	3 (2)	DRB1*13:01:01G	3 (2)	DRB3*02:02:01G	2 (1)	DRB4*01:01P	9 (4)	DQA1*01:03:01G	4 (2)	DQA1*02:01:01G	4 (2)
DRB1*07:01P	9 (6)	DRB1*13:01P	9 (6)	DRB3*02:02P	7 (3)	DRB4*01:01	46(21)	DQA1*01:03P	2 (1)	DQA1*02:01	51(27)
DRB1*07:01	51(33)	DRB1*13:01	52(34)	DRB3*02:02	40(18)	DRB4*01	78(32)	DQA1*01:03	49(26)	DQA1*02	98(50)
DRB1*07	100(67)	DRB1*13	100(67)	<i>DRB3*02:01</i>	2 (1)	DRB4*PRESENT	22(9)	DQA1*01	100(51)	<i>DQA1*01</i>	2 (1)
				DRB3*02	79(33)						
				DRB3*PRESENT	21(9)						
DQB1				DPA1				DPB1			
64 labs High / 65 labs Low		% (n)		47 labs High / 36 labs Low		% (n)		59 labs High / 33 labs Low		% (n)	
DQB1*02:02:01:01	2 (1)	DQB1*06:03:01:01	2 (1)	DPA1*01:03:01:04	2 (1)	DPA1*01:04:01	38(18)	DPB1*04:01:01	42(25)	DPB1*15:01:01	39(23)
DQB1*02:02:01	33(21)	DQB1*06:03:01	33(21)	DPA1*01:03:01	47(22)	DPA1*01:04	62(29)	DPB1*04:01:01G	7 (4)	DPB1*15:01	61(36)
DQB1*02:01:01G	8 (5)	DQB1*06:03:01G	3 (2)	DPA1*01:03:01G	2 (1)	DPA1*01	100(36)	DPB1*04:01P	12(7)	DPB1*15	100(33)
DQB1*02:01P	8 (5)	DQB1*06:03P	6 (4)	DPA1*01:03P	4 (2)			DPB1*04:01	39(23)		
DQB1*02:02	49(31)	DQB1*06:03	56(38)	DPA1*01:03	45(21)			DPB1*04	100(33)		
DQB1*02	100(65)	DQB1*06	100(65)	DPA1*01	100(36)						

Discrepant results from consensus are italicized in Tables 1-6

Table 2. Summary of the 176th DNA Exchange (DNA #1078)

A		B				C					
62 labs High / 65 labs Low		% (n)		64 labs High / 65 labs Low		% (n)		63 labs High / 63 labs Low		% (n)	
A*02:06:01:01	2 (1)	A*02:07:01:01	10(6)	B*15:27:01:01	9 (6)	B*46:01:01:01	6 (4)	C*01:02:01:01	2 (1)	C*04:01:01	48(30)
A*02:06:01	44(27)	A*02:07:01	35(22)	B*15:27:01	41(26)	B*46:01:01	41(26)	C*01:02:01	46(29)	C*04:01:01G	6 (4)
A*02:06:01G	7 (4)	A*02:07:01G	5 (3)	B*15:27P	2 (1)	B*46:01:01G	3 (2)	C*01:02:01G	3 (2)	C*04:01P	2 (1)
A*02:06P	2 (1)	A*02:07P	2 (1)	B*15:27	48(31)	B*46:01P	2 (1)	C*01:02P	2 (1)	C*04:01	42(26)
A*02:06	46(28)	A*02:07	43(27)	B*15	100(65)	B*46:01	48(31)	C*01:02	48(30)	<i>C*04:10</i>	2 (1)
A*02	100(65)	<i>A*02:01</i>	5 (3)			B*46	100(65)	C*01	100(63)	C*04	100(63)
		A*02									

DRB1		DRB3/4/5				DQA1					
65 labs High / 66 labs Low		% (n)		47 labs High / 39 labs Low		% (n)		54 labs High / 49 labs Low		% (n)	
DRB1*09:01:02	38(25)	DRB1*14:54:01	37(23)	DRB3*02:02:01	49(23)	DRB4*01:03:01	50 (23)	DQA1*01:04:01	47(25)	DQA1*03:02:01:02	6 (3)
DRB1*09:01:02G	3 (2)	DRB1*14:01:01G	8 (5)	DRB3*02:02:01G	6 (3)	DRB4*01:01:01G	2 (1)	DQA1*01:01:01G	4 (2)	DQA1*03:02:01	43(23)
DRB1*09:01P	9 (6)	DRB1*14:01P	11(7)	DRB3*02:02P	6 (3)	DRB4*01:01P	11(5)	DQA1*01:01P	2 (1)	DQA1*03:01:01G	4 (2)
DRB1*09:01	49(32)	DRB1*14:54	39(24)	DRB3*02:02	36(17)	DRB4*01:03	33(15)	DQA1*01:04	41(22)	DQA1*03:01P	2 (1)
DRB1*09	100(66)	<i>DRB1*14:01</i>	3 (2)	<i>DRB3*02:01</i>	2 (1)	<i>DRB4*01:01</i>	4 (2)	<i>DQA1*01:01</i>	6 (3)	DQA1*03:02	44(24)
		<i>DRB1*14:35</i>	2 (1)	DRB3*02	80(31)	DRB4*01	80(31)	DQA1*01	100(49)	<i>DQA1*03:01</i>	2 (1)
		DRB1*14	100(66)	DRB3*PRESENT	20(8)	DRB4*PRESENT	20(8)			DQA1*03	98(48)
										<i>DQA1*01</i>	2 (1)

DQB1		DPA1				DPB1					
64 labs High / 64 labs Low		% (n)		47 labs High / 35 labs Low		% (n)		59 labs High/ 33 labs Low		% (n)	
DQB1*03:03:02:02	2 (1)	DQB1*05:03:01	37(24)	DPA1*02:02:02	51(24)			DPB1*02:01:02	42(25)	DPB1*02:02:01	47(28)
DQB1*03:03:02	42(27)	DQB1*05:03:01G	3 (2)	DPA1*02:02:02G	2 (1)			DPB1*02:01:02G	7 (4)	DPB1*02:02:01G	5 (3)
DQB1*03:03:02G	5 (3)	DQB1*05:03P	6 (4)	DPA1*02:02P	6 (3)			DPB1*02:01P	10(6)	DPB1*02:02P	7 (4)
DQB1*03:03P	5 (3)	DQB1*05:03	53(34)	DPA1*02:02	36(17)			DPB1*02:01	41(24)	DPB1*02:02	41(24)
DQB1*03:03	47(30)	DQB1*05	98(63)	<i>DPA1*02:07</i>	4 (2)			DPB1*02(DP201)	100(33)	DPB1*02(DP202)	100(33)
DQB1*03	100(63)	<i>DQB1*03</i>	2 (1)	DPA1*02	100(35)						

Discrepant results from consensus are italicized in Tables 1-6

Table 3. Summary of the 176th DNA Exchange (DNA #1079)

A				B				C			
63 labs High / 64 labs Low		% (n)		64 labs High / 64 labs Low		% (n)		63 labs High / 62 labs Low		% (n)	
A*02:01:01:01	2 (1)	A*24:02:01:01	2 (1)	B*07:02:01	48(31)	B*44:23:01:02N	18(11)	C*05:01:01:02	2 (1)	C*07:02:01:03	2 (1)
A*02:01:01	48(30)	A*24:02:01	48(30)	B*07:02:01G	5 (3)	B*44:23:01N	40(25)	C*05:01:01	46(29)	C*07:02:01	46(29)
A*02:01:01G	5 (3)	A*24:02:01G	5 (3)	B*07:02P	2 (1)	B*44:23N	34(21)	C*05:01:01G	3 (2)	C*07:02:01G	3 (2)
A*02:01P	3 (2)	A*24:02P	2 (1)	B*07:02	45(29)	<i>B*44:02</i>	8 (5)	C*05:01P	2 (1)	C*07:02P	2 (1)
A*02:01	43(27)	A*24:02	44(28)	B*07	100(64)	B*44NULL	23(15)	C*05:01	48(30)	C*07:02	46(29)
A*02	100(64)	A*24	100(64)			B*44	77(49)	C*05	98(61)	<i>C*07:01</i>	2 (1)
								<i>C*08</i>	2 (1)	C*07	100(62)

DRB1				DRB3/4/5				DQA1			
64 labs High / 65 labs Low		% (n)		46 labs High / 40 labs Low		% (n)		52 labs High / 48 labs Low		% (n)	
DRB1*04:08:01	44(28)	DRB1*15:01:01	38(24)	DRB4*01:03:01	46(21)	DRB5*01:01:01	54(25)	DQA1*01:02:01	50(26)	DQA1*03:03:01	50(26)
DRB1*04:08P	11(7)	DRB1*15:01:01G	3 (2)	DRB4*01:01:01G	4 (2)	DRB5*01:01P	6 (3)	DQA1*01:02:01G	2 (1)	DQA1*03:01:01G	4 (2)
DRB1*04:08	44(28)	DRB1*15:01P	9 (6)	DRB4*01:01P	15(7)	DRB5*01:01	39(18)	DQA1*01:02P	2 (1)	DQA1*03:01P	2 (1)
<i>DRB1*04:04</i>	2 (1)	DRB1*15:01	48(30)	DRB4*01:03	30(14)	DRB5*01	77(31)	DQA1*01:02	46(24)	DQA1*03:03	38(20)
DRB1*04	100(65)	<i>DRB1*15:02</i>	2 (1)	<i>DRB4*01:01</i>	4 (2)	DRB5*PRESENT	22(9)	DQA1*01		<i>DQA1*03:02</i>	2 (1)
		DRB1*15	100(65)	DRB4*01	77(31)					<i>DQA1*03:01</i>	4 (2)
				DRB4*PRESENT	22(9)					DQA1*03	98(47)
										<i>DQA1*01</i>	2 (1)

DQB1				DPA1				DPB1			
65 labs High / 63 labs Low		% (n)		48 labs High / 34 labs Low		% (n)		60 labs High / 32 labs Low		% (n)	
DQB1*03:04:01	35(23)	DQB1*06:02:01	34(22)	DPA1*01:03:01	46(22)			DPB1*04:01:01	17(10)	DPB1*04:02:01	17(10)
DQB1*03:04	65(42)	DQB1*06:02:01G	6 (4)	DPA1*01:03:01G	4 (2)			DPB1*04:01:01G	32(19)	DPB1*04:02:01G	32(19)
DQB1*03	100(63)	DQB1*06:02P	9 (6)	DPA1*01:03P	10(5)			DPB1*04:01P	32(19)	DPB1*04:02P	32(19)
		DQB1*06:02	51(33)	DPA1*01:03	40(19)			DPB1*04:01	20(12)	DPB1*04:02	19(11)
		DQB1*06	100(62)	DPA1*01	100(34)			DPB1*04(DP401)	100(32)	DPB1*04(DP402)	100(31)

Discrepant results from consensus are italicized in Tables 1-6

Table 4. Summary of the 176th DNA Exchange (DNA #1080)

A				B				C			
66 labs High / 61 labs Low		% (n)		66 labs High / 61 labs Low		% (n)		62 labs High / 59 labs Low		% (n)	
A*01:01:01:01	1 (1)	A*24:02:01:01	1 (1)	B*35:14:01	48(32)	B*40:01:02	47(31)	C*03:04:01:02	2 (1)	C*04:01:01	47(30)
A*01:01:01	45(30)	A*24:02:01	46(30)	B*35:14:01G	3 (2)	B*40:01:01G	6 (4)	C*03:04:01	45(29)	C*04:01:01G	8 (5)
A*01:01:01G	6 (4)	A*24:02:01G	6 (4)	B*35:14P	1 (1)	B*40:01P	2 (1)	C*03:04:01G	6 (4)	C*04:01P	2 (1)
A*01:01P	1 (1)	A*24:02P	1 (1)	B*35:14	47(31)	B*40:01	45(30)	C*03:04P	2 (1)	C*04:01	44(28)
A*01:01	45(30)	A*24:02	45(29)	B*35	100(61)	B*40	100(61)	C*03:04	44(28)	C*04	100(59)
A*01	100(61)	A*24	100(61)					C*03:02	2 (1)		
								C*03	100(59)		

DRB1				DRB3/4/5				DQA1			
66 labs High / 61 labs Low		% (n)		45 labs High / 40 labs Low		% (n)		53 labs High / 46 labs Low		% (n)	
DRB1*04:01:01	43(28)	DRB1*16:02:01	33(22)	DRB4*01:03:01	45(20)	DRB5*02:02:01	53(24)	DQA1*03:03:01	49(26)	DQA1*05:05:01	50(26)
DRB1*04:01P	11(7)	DRB1*16:02:01G	9 (6)	DRB4*01:01:01G	5 (2)	DRB5*02:02P	7 (3)	DQA1*03:01:01G	4 (2)	DQA1*05:01:01G	4 (2)
DRB1*04:01	46(30)	DRB1*16:02P	14(9)	DRB4*01:01P	16(7)	DRB5*02:02	40(18)	DQA1*03:01P	2 (1)	DQA1*05:01P	2 (1)
DRB1*04	100(61)	DRB1*16:02	44(29)	DRB4*01:03	29(13)	DRB5*02	78(31)	DQA1*03:03	40(21)	DQA1*05:05	44(23)
		DRB1*16	98(60)	<i>DRB4*01:01</i>	5 (2)	DRB5*PRESENT	22(9)	<i>DQA1*03:02</i>	6 (3)	DQA1*05	100(46)
		<i>DRB1*15</i>	2 (1)	DRB4*01	78(31)			DQA1*03	100(46)		
				DRB4*PRESENT	22(9)						

DQB1				DPA1				DPB1			
63 labs High / 59 labs Low		% (n)		48 labs High / 34 labs Low		% (n)		62 labs High / 32 labs Low		% (n)	
DQB1*03:01:01	29(18)	DQB1*03:01:01:06	3 (2)	DPA1*01:03:01:05	2 (1)	DPA1*02:01:01:03	6 (3)	DPB1*04:02:01	20(12)	DPB1*17:01:01	23(14)
DQB1*03:01:01G	19(12)	DQB1*03:01:01	27(17)	DPA1*01:03:01	52(25)	DPA1*02:01:01	48(23)	DPB1*04:02:01G	30(18)	DPB1*17:01:01G	26(16)
DQB1*03:01P	6 (4)	DQB1*03:01:01G	19(12)	DPA1*01:03:01G	4 (2)	DPA1*02:01:01G	4 (2)	DPB1*04:02P	26(16)	DPB1*17:01P	23(14)
DQB1*03:01	46(29)	DQB1*03:01P	6 (4)	DPA1*01:03P	4 (2)	DPA1*02:01P	4 (2)	DPB1*04:02	25(15)	DPB1*17:01	29(18)
DQB1*03	100(59)	DQB1*03:01	44(28)	DPA1*01:03	37(18)	DPA1*02:01	38(18)	DPB1*04(DP402)	100(31)	DPB1*17	100(32)
		DQB1*03	100(58)	DPA1*01	100(34)	DPA1*02	100(34)				

Discrepant results from consensus are italicized in Tables 1-6

Table 5. Summary of the 176th DNA Exchange (DNA #1081)

A				B				C			
65 labs High / 62 labs Low		% (n)		65 labs High / 61 labs Low		% (n)		64 labs High / 60 labs Low		% (n)	
A*02:03:01:01	9 (8)	A*11:01:01:01	2 (1)	B*15:27:01:01	9 (6)	B*55:02:01	48(31)	C*01:02:01:01	2 (1)	C*04:01:01	48(30)
A*02:03:01	40(26)	A*11:01:01	47(30)	B*15:27:01	45(29)	B*55:02:01G	8 (5)	C*01:02:01	45(29)	C*04:01:01G	9 (6)
A*02:03:01G	5 (3)	A*11:01:01G	8 (5)	B*15:27	46(30)	B*55:02	44(28)	C*01:02:01G	6 (4)	C*04:01	41(26)
A*02:03	46(30)	A*11:01	44(28)	B*15	100(61)	B*55	100(61)	C*01:02	47(30)	<i>C*04:10</i>	2 (1)
A*02	100(62)	A*11	100(62)					C*01	100(60)	C*04	100(60)

DRB1				DRB3/4/5				DQA1			
67 labs High / 63 labs Low		% (n)		45 labs High / 40 labs Low		% (n)		50 labs High / 47 labs Low		% (n)	
DRB1*04:06:01	46(31)	DRB1*09:01:02	41(27)	DRB4*01:03:01	47(21)	DRB4*01:03:02	52(23)	DQA1*03:01:01:01	2 (1)	DQA1*03:02:01:02	2 (1)
DRB1*04:06:01G	2 (1)	DRB1*09:01:02G	6 (4)	DRB4*01:01:01G	2 (1)	DRB4*01:03:01	2 (1)	DQA1*03:01:01	42(21)	DQA1*03:02:01	41(20)
DRB1*04:06P	2 (1)	DRB1*09:01P	8 (5)	DRB4*01:01P	16(7)	DRB4*01:01:01	2 (1)	DQA1*03:01:01G	8 (4)	DQA1*03:01:01G	10(5)
DRB1*04:06	51(34)	DRB1*09:01	45(30)	DRB4*01:03	31(14)	DRB4*01:01P	14(6)	DQA1*03:01P	8 (4)	DQA1*03:01P	6 (3)
DRB1*04	98(62)	DRB1*09	100(63)	<i>DRB4*01:01</i>	4 (2)	DRB4*01:03	27(12)	DQA1*03:01	36(18)	DQA1*03:02	39(19)
<i>DRB1*11</i>	2 (1)			DRB4*01	80(32)	<i>DRB4*01:01</i>	2 (1)	<i>DQA1*03:02</i>	2 (1)	<i>DQA1*03:01</i>	2 (1)
				DRB4*PRESENT	20(8)	DRB4*01	84(31)	<i>DQA1*02:01</i>	2 (1)	DQA1*03	100(47)
						DRB4*PRESENT	16(6)	DQA1*03	100(47)		

DQB1				DPA1				DPB1			
65 labs High / 62 labs Low		% (n)		46 labs High / 35 labs Low		% (n)		61 labs High / 33 labs Low		% (n)	
DQB1*03:02:01:01	1 (1)	DQB1*03:03:02:02	1 (1)	DPA1*02:02:02	52(24)			DPB1*05:01:01	31(19)		
DQB1*03:02:01	34(22)	DQB1*03:03:02	41(27)	DPA1*02:02:02G	2 (1)			DPB1*05:01:01G	16(10)		
DQB1*03:02:01G	11(7)	DQB1*03:03:02G	8 (5)	DPA1*02:02P	6 (3)			DPB1*05:01P	15(9)		
DQB1*03:02P	8 (5)	DQB1*03:03P	5 (3)	DPA1*02:02	37(17)			DPB1*05:01	38(23)		
DQB1*03:02	46(30)	DQB1*03:03	45(29)	<i>DPA1*02:07</i>	2 (1)			DPB1*05:01	100(33)		
DQB1*03		DQB1*03	98(61)	DPA1*02	100(35)						
		<i>DQB1*04</i>	2 (1)								

Discrepant results from consensus are italicized in Tables 1-6

Table 6. Summary of the 176th DNA Exchange (DNA #1082)

A				B				C			
62 labs High / 61 labs Low		% (n)		63 labs High / 61 labs Low		% (n)		62 labs High / 59 labs Low		% (n)	
A*02:01:01:01	2 (1)	A*03:02:01:01	10(6)	B*27:05:02	49(31)	B*51:01:01	50(31)	C*01:02:01:01	2 (1)	C*15:02:01:01	5 (3)
A*02:01:01	48(30)	A*03:02:01	47(29)	B*27:05:02G	8 (5)	B*51:01:01G	8 (5)	C*01:02:01	47(29)	C*15:02:01	43(27)
A*02:01:01G	8 (5)	A*03:02	43(27)	B*27:05	38(24)	B*51:01	42(26)	C*01:02:01G	8 (5)	C*15:02:01G	8 (5)
A*02:01	40(25)	A*03	100(61)	B*27:03	5 (3)	B*51	100(61)	C*01:02	43(27)	C*15:02	42(26)
A*02:24	2 (1)			B*27	100(61)			C*01	100(59)	C*14:02	2 (1)
A*02	100(61)									C*15	98(58)
										C*05	2 (1)

DRB1				DRB3/4/5				DQA1			
64 labs High / 62 labs Low		% (n)		45 labs High / 38 labs Low		% (n)		48 labs High / 47 labs Low		% (n)	
DRB1*07:01:01:01	2 (1)	DRB1*16:01:01	54(34)	DRB4*01:01:01:01	2 (1)	DRB5*02:02:01G	4 (2)	DQA1*01:02:02:01	6 (3)	DQA1*02:01:01	54(26)
DRB1*07:01:01	42(27)	DRB1*16:01P	2 (1)	DRB4*01:01:01	52(23)	DRB5*02:02P	4 (2)	DQA1*01:02:02	48(23)	DQA1*02:01:01G	2 (1)
DRB1*07:01:01G	6 (4)	DRB1*16:01	44(28)	DRB4*01:01P	2 (1)	DRB5*02:06	80(36)	DQA1*01:02:01G	2 (1)	DQA1*02:01	44(21)
DRB1*07:01P	8 (5)	DRB1*16	98(61)	DRB4*01:01	43(19)	<i>DRB5*02:02</i>	11(5)	DQA1*01:02	44(21)	DQA1*02	100(47)
DRB1*07:01	42(27)	<i>DRB1*15</i>	2 (1)	DRB4*01	82(31)	DRB5*02	79(30)	DQA1*01	100(47)		
DRB1*07	100(62)			DRB4*PRESENT	18(7)	<i>DRB5*01</i>	3 (1)				
						DRB5*PRESENT	18(7)				

DQB1				DPA1				DPB1			
62 labs High / 60 labs Low		% (n)		46 labs High / 33 labs Low		% (n)		59 labs High / 34 labs Low		% (n)	
DQB1*02:02:01:01	2 (1)	DQA1*05:02:01:01	2 (1)	DPA1*01:04:04	38(17)	DPA1*02:01:01:01	4 (2)	DPB1*11:01:01:01	10(6)	DPB1*15:01:01	39(23)
DQB1*02:02:01	35(22)	DQA1*05:02:01	34(21)	DPA1*01:04	62(28)	DPA1*02:01:01	53(24)	DPB1*11:01:01	42(25)	DPB1*15:01	61(36)
DQB1*02:02:01G	10(6)	DQA1*05:02:01G	10(6)	DPA1*01	100(35)	DPA1*02:01	42(19)	DPB1*11:01:01G	5 (3)	DPB1*15	100(34)
DQB1*02:02P	6 (4)	DQA1*05:02P	5 (3)			DPA1*02	100(35)	DPB1*11:01P	3 (2)		
DQB1*02:02	47(29)	DQA1*05:02	50(31)					DPB1*11:01	39(23)		
DQB1*02	100(60)	DQA1*05	100(60)					DPB1*11	100(34)		

Discrepant results from consensus are italicized in Tables 1-6

Table 7. Individual laboratory results for DNA # 1077 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4545	02:01:01G	29:02:01G	14:02:01G	15:01:01G	03:03	08:02	07:01:01G	13:01:01G	NT	NT	NT	NT	02:01:01G	06:03:01G	NT	NT	04:01:01G	15:01
4582	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	3*02:02	4*01:01	01:03	02:01	02:02	06:03	01:03	01:04	04:01	15:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	29:02:01	14:02:01	15:01:01	03:03:01	08:02:01	07:01:01	13:01:01	3*02:02:01	4*01:01:01	01:03:01	02:01:01	02:02:01	06:03:01	01:03:01	01:04:01	04:01:01	15:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	02:01:01	29:02:01	14:02:01	15:01:01	03:03:01	08:02:01	07:01:01	13:01:01	3*02:02:01	4*01:01:01	01:03:01	02:01:01	02:02	06:03	01:03:01	01:04:01	04:01:01	15:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus based on High Resolution	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	3*02:02	4*01:01	01:03	02:01	02:02	06:03	01:03	01:04	04:01	15:01

Table 8. Individual laboratory results for DNA # 1077 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	15:01
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	NT	NT	NT	NT	02:02	06:03	NT	NT	NT	NT
176	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	NT	NT	01:03	02:01	02:02	06:03	01:03	01:04	04:01	15:01
193	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	NT	NT	NT	NT	02:02	06:03	NT	NT	NT	NT
207	02:01:01	29:02:01	14:02:01	15:01:01	03:03:01	08:02:01	07:01:01	13:01:01	3*02:02:01	4*01:01:01	01:03:01	02:01:01	02:02:01	06:03:01	01:03:01	01:04	04:01:01	15:01:01
209	02:01P	29:02P	14:02P	15:01P	03:03P	08:02P	07:01P	13:01P	3*02:02P	4*01:01P	01:03P	02:01:01G	02:01P	06:03P	NT	NT	04:01P	15:01:01
262	NT	NT	NT	NT	NT	NT	07:01	13:01	NT	NT	01:03	02:01	02:02	06:03	NT	NT	NT	NT
267	02:01	29:01	14:02	15:01	03:03	08:02	07:01	13:01	3*02:02	4*01:01	01:03	02:01	02:02	06:03	01:03	01:04	04:01	15:01
288	NT	NT	NT	NT	NT	NT	07:01	13:01	NT	NT	NT	NT	02:02	06:03	NT	NT	NT	NT
292	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	NT	NT	NT	NT	02:02	06:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	02:01	NT	NT	NT	NT	NT	NT
313	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	NT	NT	NT	NT	02:02	06:03	NT	NT	NT	NT
317	02:01	29:01	14:01	15:01	03:03	08:02	07:01	13:01	3*02:01	4*01:01	01:03	02:01	02:02	06:03	01:03	01:04	04:01	15:01
343	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	NT	NT	01:03	02:01	02:02	06:03	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	15:01
3849	02:01:01G	29:02:01G	14:02:01G	15:01:01G	03:03:01G	08:02:01G	07:01	13:01	NT	NT	NT	NT	02:01:01G	06:03:01G	NT	NT	04:01:01G	15:01
4420	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	3*02:02	NT	01:03	02:01	NT	06:03	01:03	01:04	04:01	15:01
5451	NT	NT	14:02:01	15:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	29:02	14:02	15:01	03:03	08:02	07:01	13:01	3*02:02	4*01:01	01:03	02:01	02:02	06:03	01:03	01:04	04:01	15:01

Table 9. Individual laboratory results for DNA # 1077 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
126	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	NT	NT	02	06	NT	NT	NT	NT
134	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
144	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
147	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
148	02	29	14	15	03	08	07	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
151	02	29	14	15	03	08	07	13	NT	NT	NT	NT	02	06	NT	NT	04(DP401)	15
152	02	29	14	15	NT	NT	07	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
162	02	29	14	15	03	08	07	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
189	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	NT	NT
190	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	NT	NT	02	06	NT	NT	NT	NT
192	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
195	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
199	NT	NT	NT	NT	NT	NT	07	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
205	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
207	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	01	01	04(DP401)	15
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
228	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	NT	NT	02	06	NT	NT	NT	NT
239	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
244	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
252	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	01	02	02	06	NT	NT	NT	NT
255	02	29	14	15	NT	NT	07	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	01	02	02	06	NT	NT	NT	NT
265	02	29	14	15	03	08	07	13	3*02	4*01	01	01	02	06	01	01	04(DP401)	15
266	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	01	01	04(DP401)	15
267	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
278	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
279	02	29	14	15	03	08	07	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
280	02	29	14	15	03	08	07	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
282	02	29	14	15	03	08	07	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
285	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
286	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
288	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
292	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
294	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	NT	NT	NT	NT
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
305	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
309	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
311	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	01	02	02	06	NT	NT	NT	NT
318	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	01	01	04(DP401)	15
329	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	01	02	02	06	NT	NT	NT	NT
336	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
339	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	NT	NT	02	06	NT	NT	NT	NT
340	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
343	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
349	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT

Table 9. Individual laboratory results for DNA # 1077 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	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
615	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	NT	NT
714	02	29	14	15	03	08	07	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
805	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	NT	NT
1251	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
1647	02	29	14	15	03	08	07	13	3*PRESENT	4*PRESENT	01	02	02	06	01	01	04(DP401)	15
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3438	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	01	01	04(DP401)	15
3600	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	3*02	NT	NT	NT	NT	NT	NT	NT	NT	NT
3849	02	29	14	15	03	08	07	13	NT	NT	NT	NT	02	06	NT	NT	04(DP401)	15
4237	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
4420	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
4582	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
4585	02	29	14	15	03	08	07	13	NT	NT	01	02	02	06	NT	NT	NT	NT
5451	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	NT	NT
8050	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
9221	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
9222	02	29	14	15	NT	NT	07	13	NT	NT	NT	NT	02	06	NT	NT	NT	NT
9225	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15
Final Consensus	02	29	14	15	03	08	07	13	3*02	4*01	01	02	02	06	01	01	04(DP401)	15

Table 10. Individual laboratory results for DNA # 1078 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4545	02:06:01G	02:07	15:27	46:01	01:02	04:01:01G	09:01:02G	14:01:01G	NT	NT	NT	NT	03:03:02G	05:03:01G	NT	NT	02:01:02G	02:02:01G
4582	02:06	02:07	15:27	46:01	01:02	04:01	09:01	14:54	3*02:02	4*01:03	01:04	03:02	03:03	05:03	02:02	02:02	02:01	02:02
4585	NT	NT	15:27	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:06:01	02:07:01	15:27:01	46:01:01	01:02:01	04:01:01	09:01:02	14:54:01	3*02:02:01	4*01:03:01	01:04:01	03:02:01	03:03:02	05:03:01	02:02:02	02:02:02	02:01:02	02:02:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	02:06:01	02:07:01	15:27:01	46:01:01	01:02:01	04:01:01	09:01:02	14:54:01	3*02:02:01	4*01:03:01	01:04:01	03:02:01	03:03:02	05:03:01	02:02:02	02:02:02	02:01:02	02:02:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus based on High Resolution	02:06	02:07	15:27	46:01	01:02	04:01	09:01	14:54	3*02:02	4*01:03	01:04	03:02	03:03	05:03	02:02	02:02	02:01	02:02

Table 11. Individual laboratory results for DNA # 1078 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	02:02P
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:06	02:07	15:27	46:01	01:02	04:01:01G	09:01	14:01:01G	NT	NT	NT	NT	03:03	05:03	NT	NT	NT	NT
176	02:06	02:07	15:27	46:01	01:02	04:01	09:01	14:54	NT	NT	01:04	03:02	03:03	05:03	02:02	02:02	02:01	02:02
193	02:06	02:07	15:27	46:01	01:02	04:01	09:01	14:54	NT	NT	NT	NT	03:03	05:03	NT	NT	NT	NT
207	02:06:01	02:07:01	15:27:01	46:01:01	01:02:01	04:01:01	09:01:02	14:54:01	3*02:02:01	4*01:01P	01:04:01	03:02:01	03:03:02	05:03:01	02:02:02	02:02:02	02:01:02	02:02:01
209	02:06P	02:07P	15:27P	46:01P	01:02P	04:01P	09:01P	14:01P	3*02:02P	4*01:01P	01:01P	03:01P	03:03P	05:03P	NT	NT	02:01P	02:02P
262	NT	NT	NT	NT	NT	NT	09:01	14:54	NT	NT	01:04	03:02	03:03	05:03	NT	NT	NT	NT
267	02:06	02:01	15:27	46:01	01:02	04:01	09:01	14:01	3*02:02	4*01:01	01:04	03:02	03:03	05:03	02:07	02:07	02:01	02:02
288	NT	NT	NT	NT	NT	NT	09:01	14:54	NT	NT	NT	NT	03:03	05:03	NT	NT	NT	NT
292	02:06	02:07	15:27	46:01	01:02	04:01	09:01	14:54	NT	NT	NT	NT	03:03	05:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:06	02:07	15:27	46:01	01:02	04:01	09:01	14:54	NT	NT	NT	NT	03:03	05:03	NT	NT	NT	NT
317	02:06	02:01	15:27	46:01	01:02	04:01	09:01	14:01	3*02:01	4*01:01	01:01	03:01	03:03	05:03	02:07	02:07	02:01	02:02
343	02:06	02:01	15:27	46:01	01:02	04:10	09:01	14:35	NT	NT	01:01	03:02	03:03	05:03	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	02:02P
3849	02:06:01G	02:07:01G	15:27:01	46:01:01G	01:02:01G	04:01:01G	09:01	NT	NT	NT	NT	NT	03:03:02G	05:03:01G	NT	NT	02:01:02G	02:02:01G
4420	02:06	02:07	15:27	46:01	01:02	04:01	09:01	NT	3*02:02	NT	01:04	03:02	03:03	05:03	02:02	02:02	02:01	02:02
5451	NT	NT	NT	NT	01:02:01	04:01:01	NT	NT	NT	NT	01:04:01	03:02:01	NT	NT	NT	NT	NT	NT
Final Consensus	02:06	02:07	15:27	46:01	01:02	04:01	09:01	14:54	3*02:02	4*01:03	01:04	03:02	03:03	05:03	02:02	02:02	02:01	02:02

Table 12. Individual laboratory results for DNA # 1078 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
126	02	02	15	46	01	04	09	14	3*PRESENT	4*PRESENT	NT	NT	03	05	NT	NT	NT	NT
134	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	02(DP201)	02(DP202)
144	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
147	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
148	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	NT	NT
151	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	02(DP201)	02(DP202)
152	02	02	15	46	NT	NT	09	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
162	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	NT	NT
189	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	NT	NT
190	02	02	15	46	01	04	09	14	3*PRESENT	4*PRESENT	NT	NT	03	05	NT	NT	NT	NT
192	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
195	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
199	NT	NT	NT	NT	NT	NT	09	14	NT	NT	NT	NT	NT	05	NT	NT	NT	NT
205	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
207	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	02	02	02(DP201)	02(DP202)
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
228	02	02	15	46	01	04	09	14	3*PRESENT	4*PRESENT	NT	NT	03	05	NT	NT	NT	NT
239	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
244	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
252	02	02	15	46	01	04	09	14	3*PRESENT	4*PRESENT	01	03	03	05	NT	NT	NT	NT
255	02	02	15	46	NT	NT	09	14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	02	15	46	01	04	09	14	3*PRESENT	4*PRESENT	01	03	03	05	NT	NT	NT	NT
265	02	02	15	46	01	04	09	14	3*02	4*01	01	01	03	05	02	02	02(DP201)	02(DP202)
266	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	02	02	02(DP201)	02(DP202)
267	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
278	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
279	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	NT	NT
280	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	NT	NT
282	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	NT	NT
285	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
286	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
288	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
292	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
294	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	NT	NT	NT	NT
300	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	NT	NT
304	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
305	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
309	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	02	02	02(DP201)	02(DP202)
329	02	02	15	46	01	04	09	14	3*PRESENT	4*PRESENT	01	03	03	05	NT	NT	NT	NT
336	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
339	02	02	15	46	01	04	09	14	3*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
340	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
343	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
349	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT

Table 12. Individual laboratory results for DNA # 1078 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	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
615	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	NT	NT
714	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	NT	NT
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
805	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	NT	NT
1251	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
1647	02	02	15	46	01	04	09	14	3*PRESENT	4*PRESENT	01	03	03	05	02	02	02(DP201)	02(DP202)
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3438	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	02	02	02(DP201)	02(DP202)
3600	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3849	02	02	15	46	01	04	09	14	NT	NT	NT	NT	03	05	NT	NT	02(DP201)	02(DP202)
4237	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
4420	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
4582	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
4585	02	02	15	46	01	04	09	14	NT	NT	01	03	03	05	NT	NT	NT	NT
5451	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	NT	NT
8050	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
9221	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)
Final Consensus	02	02	15	46	01	04	09	14	3*02	4*01	01	03	03	05	02	02	02(DP201)	02(DP202)

Table 13. Individual laboratory results for DNA # 1079 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4545	02:01:01G	24:02:01G	07:02:01G	44:23N	05:01	07:02	04:08P	15:01:01G	NT	NT	NT	NT	03:04	06:02:01G	NT	NT	04:01:01G	04:02:01G
4582	02:01	24:02	07:02	44:23N	05:01	07:02	04:08	15:01	4*01:03	5*01:01	01:02	03:03	03:04	06:02	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	24:02:01	07:02:01	44:23:01N	05:01:01	07:02:01	04:08:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:04:01	06:02:01	01:03:01	01:03:01	04:01:01	04:02:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	02:01:01	24:02:01	07:02:01	44:23:01N	05:01:01	07:02:01	04:08:01	15:01:01	4*01:03:01	5*01:01:01	01:02:01	03:03:01	03:04:01	06:02:01G	01:03:01	01:03:01	04:01:01G	04:02:01G
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus based on High Resolution	02:01	24:02	07:02	44:23:01N	05:01	07:02	04:08	15:01	4*01:03	5*01:01	01:02	03:03	03:04	06:02	01:03	01:03	04:01:01G	04:02P

Table 14. Individual laboratory results for DNA # 1079 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	02:01	24:02	07:02	44:23N	05:01	07:02	04:08	15:01	NT	NT	NT	NT	03:04	06:02	NT	NT	NT	NT
176	02:01	24:02	07:02	44:23N	05:01	07:02	04:08	15:01	NT	NT	01:02	03:03	03:04	06:02	01:03	01:03	04:01:01G	04:02:01G
193	02:01	24:02	07:02	44:23:01N	05:01	07:02	04:08	15:01	NT	NT	NT	NT	03:04	06:02	NT	NT	NT	NT
207	02:01:01	24:02:01	07:02:01	44:23N	05:01:01	07:02:01	04:08:01	15:01:01	4*01:01P	5*01:01:01	01:02:01	03:03:01	03:04:01	06:02:01	01:03:01	01:03:01	04:01P	04:02P
209	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	04:08	15:01	NT	NT	01:02	03:03	03:04	06:02	NT	NT	NT	NT
267	02:01	24:02	07:02	44:02	05:01	07:02	04:08	15:01	4*01:01	5*01:01	01:02	03:01	03:04	06:02	01:03	01:03	04:01	04:02
288	NT	NT	NT	NT	NT	NT	04:08	15:01	NT	NT	NT	NT	03:04	06:02	NT	NT	NT	NT
292	02:01	24:02	07:02	44:02	05:01	07:02	04:08	15:01	NT	NT	NT	NT	03:04	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	24:02	07:02	44:23N	05:01	07:02	04:08	15:01	NT	NT	NT	NT	03:04	06:02	NT	NT	NT	NT
317	02:01	24:02	07:02	44:02	05:01	07:01	04:08	15:01	4*01:01	5*01:01	01:02	03:01	03:04	06:02	01:03	01:03	04:01	04:02
343	02:01	24:02	07:02	44:02	05:01	07:02	04:04	15:02	NT	NT	01:02	03:02	03:04	06:02	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
3849	02:01:01G	24:02:01G	07:02:01G	44:23:01N	05:01:01G	07:02:01G	04:08:01	15:01	NT	NT	NT	NT	03:04	06:02:01G	NT	NT	04:01:01G	04:02:01G
4420	02:01	24:02	07:02	44:02	05:01	07:02	04:08	NT	NT	5*01:01	01:02	03:03	03:04	06:02	01:03	01:03	04:01	NT
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	24:02	07:02	44:23:01N	05:01	07:02	04:08	15:01	4*01:03	5*01:01	01:02	03:03	03:04	06:02	01:03	01:03	04:01:01G	04:02P

Table 15. Individual laboratory results for DNA # 1079 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
126	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
134	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
144	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	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	24	07	44	05	07	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
151	02	24	07	44	05	07	04	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	04(DP402)
152	02	24	07	44	NT	NT	04	15	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	24	07	44	05	07	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
189	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
190	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
192	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
195	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
199	NT	NT	NT	NT	NT	NT	04	15	NT	NT	NT	NT	03	NT	NT	NT	NT	NT
205	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
207	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
209	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
228	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
239	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
244	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
252	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	01	03	03	06	NT	NT	NT	NT
255	02	24	07	44	NT	NT	04	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	01	03	03	06	NT	NT	NT	NT
265	02	24	07	44	05	07	04	15	4*01	5*01	01	01	03	06	01	01	04(DP401)	04(DP402)
266	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
267	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
278	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
279	02	24	07	44	05	07	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
280	02	24	07	44	05	07	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
282	02	24	07	44	05	07	04	15	NT	NT	NT	NT	03	06	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	24	07	44	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
288	02	24	07	44	08	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
292	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
294	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	NT	NT	04(DP401)	04(DP402)
300	02	24	07	44	05	07	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
304	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
305	02	24	07	44NULL	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
309	02	24	07	44	05	07	04	15	4*01	5*01	01	03	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
318	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
329	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	01	03	03	06	NT	NT	NT	NT
336	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
339	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
340	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
343	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
349	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT

Table 15. Individual laboratory results for DNA # 1079 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	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
615	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
714	02	24	07	44NULL	05	07	04	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
726	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
732	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
805	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
1251	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
1647	02	24	07	44	05	07	04	15	4*PRESENT	5*PRESENT	01	03	03	06	01	01	04(DP401)	04(DP402)
2347	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
3438	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	01	01	04(DP401)	04(DP402)
3600	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3849	02	24	07	44NULL	05	07	04	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	04(DP402)
4237	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
4420	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	NT
4582	02	24	07	44NULL	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
4585	02	24	07	44	05	07	04	15	NT	NT	01	03	03	06	NT	NT	NT	NT
5451	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	NT	NT
8050	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
9221	02	24	07	44	05	07	04	15	4*01	5*01	01	03	03	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	24	07	44	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)
Final Consensus	02	24	07	NG	05	07	04	15	4*01	5*01	01	03	03	06	01	01	04(DP401)	04(DP402)

Table 16. Individual laboratory results for DNA # 1080 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4545	01:01:01G	24:02:01G	35:14	40:01:01G	03:04	04:01:01G	04:01P	16:02:01G	NT	NT	NT	NT	03:01:01G	03:01:01G	NT	NT	04:02:01G	17:01:01G
4582	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	4*01:03	5*02:02	03:03	05:05	03:01:01G	03:01:01G	01:03	02:01	04:02:01G	17:01:01G
4585	NT	NT	35:14	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	01:01:01	24:02:01	35:14:01	40:01:02	03:04:01	04:01:01	04:01:01	16:02:01	4*01:03:01	5*02:02:01	03:03:01	05:05:01	03:01:01	03:01:01	01:03:01	02:01:01	04:02:01	17:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	01:01:01	24:02:01	35:14:01	40:01:02	03:04:01	04:01:01	04:01:01	16:02:01G	4*01:03:01	5*02:02:01	03:03:01	05:05:01	03:01:01G	03:01:01G	01:03:01	02:01:01	04:02:01G	17:01:01G
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus based on High Resolution	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	4*01:03	5*02:02	03:03	05:05	03:01	03:01	01:03	02:01	04:02:01G	17:01

Table 17. Individual laboratory results for DNA # 1080 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	17:01P
151	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	NT	NT	NT	NT	03:01	03:01	NT	NT	04:02	17:01
162	01:01	24:02	35:14	40:01	03:04	04:01:01G	04:01	16:02	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
176	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	NT	NT	03:03	05:05	03:01	03:01	01:03	02:01	04:02:01G	17:01:01G
193	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
207	01:01:01	24:02:01	35:14:01	40:01:02	03:04:01	04:01:01	04:01:01	16:02:01	4*01:01P	5*02:02:01	03:03:01	05:05:01	03:01:01	03:01:01	01:03:01	02:01:01	04:02P	17:01P
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	4*01:01	5*02:02	03:02	05:05	03:01	03:01	01:03	02:01	04:02	17:01
288	NT	NT	NT	NT	NT	NT	04:01	16:02	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
292	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:03	05:05	NT	NT	NT	NT	NT	NT
313	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	NT	NT	NT	NT	03:01	03:01	NT	NT	NT	NT
317	01:01	24:02	35:14	40:01	03:02	04:01	04:01	16:02	4*01:01	5*02:02	03:02	05:05	03:01	03:01	01:03	02:01	04:02	17:01
343	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	NT	NT	03:02	05:05	03:01	03:01	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:02P	17:01P
3849	01:01:01G	24:02:01G	35:14:01G	40:01:01G	03:04:01G	04:01:01G	04:01	16:02	NT	NT	NT	NT	03:01:01G	03:01:01G	NT	NT	04:02:01G	17:01:01G
4420	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	NT	5*02:02	03:03	05:05	NT	NT	01:03	02:01	NT	17:01
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	01:01	24:02	35:14	40:01	03:04	04:01	04:01	16:02	4*01:03	5*02:02	03:03	05:05	03:01	03:01	01:03	02:01	04:02:01G	17:01

Table 18. Individual laboratory results for DNA # 1080 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
126	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	NT	NT	03	03	NT	NT	NT	NT
134	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT
144	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	01	24	35	40	NT	NT	04	16	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	01	24	35	40	03	04	04	16	NT	NT	NT	NT	03	03	NT	NT	NT	NT
189	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	NT	NT
190	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	NT	NT	03	03	NT	NT	NT	NT
192	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
195	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
199	NT	NT	NT	NT	NT	NT	04	15	NT	NT	NT	NT	03	NT	NT	NT	NT	NT
205	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
207	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
209	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	NT	NT	03	03	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
228	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	NT	NT	03	03	NT	NT	NT	NT
239	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
244	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT
252	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	03	05	03	03	NT	NT	NT	NT
255	01	24	35	40	NT	NT	04	16	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	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
266	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	01	02	04(DP402)	17
267	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
278	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	01	24	35	40	03	04	04	16	NT	NT	NT	NT	03	03	NT	NT	NT	NT
282	01	24	35	40	03	04	04	16	NT	NT	NT	NT	03	03	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	01	24	35	40	03	04	NT	NT	NT	NT	03	05	03	03	NT	NT	NT	NT
288	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT
292	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT
294	01	24	35	40	03	04	04	16	4*01	5*02	NT	NT	03	03	NT	NT	04(DP402)	17
300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT
305	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT
309	01	24	35	40	03	04	04	16	4*01	5*02	NT	NT	NT	NT	01	02	04(DP402)	17
311	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	03	05	03	03	NT	NT	NT	NT
318	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	01	02	04(DP402)	17
329	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	03	05	03	03	NT	NT	NT	NT
336	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
339	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	NT	NT	03	03	NT	NT	NT	NT
340	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
343	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT
349	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT

Table 18. Individual laboratory results for DNA # 1080 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	01	24	35	40	03	04	04	16	NT	NT	NT	NT	03	03	NT	NT	04(DP402)	17
519	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
615	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	NT	NT
714	01	24	35	40	03	04	04	16	NT	NT	NT	NT	03	03	NT	NT	NT	NT
726	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
732	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
805	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	NT	NT
1251	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
1647	01	24	35	40	03	04	04	16	4*PRESENT	5*PRESENT	03	05	03	03	01	02	04(DP402)	17
2347	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
3438	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	01	02	04(DP402)	17
3600	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3849	01	24	35	40	03	04	04	16	NT	NT	NT	NT	03	03	NT	NT	04(DP402)	17
4237	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
4420	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	NT	17
4582	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
4585	01	24	35	40	03	04	04	16	NT	NT	03	05	03	03	NT	NT	NT	NT
5451	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	NT	NT
8050	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
9221	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17
Final Consensus	01	24	35	40	03	04	04	16	4*01	5*02	03	05	03	03	01	02	04(DP402)	17

Table 19. Individual laboratory results for DNA # 1081 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4545	02:03	11:01:01G	15:27	55:02	01:02	04:01:01G	04:06	09:01:02G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	05:01:01G	05:01:01G
4582	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	02:02	02:02	05:01	05:01
4585	NT	NT	15:27	NT	NT	NT	04:06	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:03:01	11:01:01	15:27:01	55:02:01	01:02:01	04:01:01	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	02:02:02	02:02:02	05:01:01	05:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	02:03:01	11:01:01	15:27:01	55:02:01	01:02:01	04:01:01	04:06:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01G	03:03:02	02:02:02	02:02:02	05:01:01G	05:01:01G
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus based on High Resolution	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	02:02	02:02	05:01	05:01

Table 20. Individual laboratory results for DNA # 1081 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01P	05:01P
151	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	05:01	05:01
162	02:03	11:01	15:27	55:02	01:02	04:01:01G	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
176	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	NT	NT	03:01	03:02	03:02	03:03	02:02	02:02	05:01	05:01
193	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
207	02:03:01	11:01:01	15:27:01	55:02:01	01:02:01	04:01:01	04:06:01	09:01:02	4*01:01P	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	02:02:02	02:02:02	05:01:01	05:01:01
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	4*01:01	4*01:03	03:02	03:02	03:02	03:03	02:07	02:07	05:01	05:01
288	NT	NT	NT	NT	NT	NT	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
292	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
317	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	4*01:01	4*01:01	02:01	03:01	03:02	03:03	02:02	02:02	05:01	05:01
343	02:03	11:01	15:27	55:02	01:02	04:10	04:06	09:01	NT	NT	03:01	03:02	03:02	03:03	NT	NT	NT	NT
1251	02:03:01G	11:01:01G	15:27:01	55:02:01G	01:02:01G	04:01:01G	04:06:01G	09:01:02G	4*01:03	4*01:03	NT	NT	03:02:01G	03:03:02G	NT	NT	05:01:01G	05:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01P	05:01P
3849	02:03:01G	11:01:01G	15:27:01	55:02:01G	01:02:01G	04:01:01G	04:06	09:01	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	05:01:01G	05:01:01G
4420	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	NT	NT	03:01	03:02	03:02	03:03	02:02	02:02	05:01	05:01
5451	NT	NT	NT	NT	NT	NT	NT	NT	4*01:03:01	4*01:03:01	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:03	11:01	15:27	55:02	01:02	04:01	04:06	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	02:02	02:02	05:01	05:01

Table 21. Individual laboratory results for DNA # 1081 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
126	02	11	15	55	01	04	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
144	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
147	02	11	15	55	01	04	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	11	15	55	NT	NT	04	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
162	02	11	15	55	01	04	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
189	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	NT	NT
190	02	11	15	55	01	04	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
192	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
195	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
199	NT	NT	NT	NT	NT	NT	11	09	NT	NT	NT	NT	03	04	NT	NT	NT	NT
205	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	03	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	02	11	15	55	01	04	04	09	4*PRESENT	NT	NT	NT	03	03	NT	NT	NT	NT
227	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
228	02	11	15	55	01	04	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
239	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
244	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
252	02	11	15	55	01	04	04	09	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
255	02	11	15	55	NT	NT	04	09	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	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
266	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	02	02	05	05
267	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
278	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
279	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
280	02	11	15	55	01	04	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
282	02	11	15	55	01	04	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
288	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
292	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
294	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	NT	NT	05	05
300	02	11	15	55	01	04	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
304	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
305	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
309	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	02	02	05	05
329	02	11	15	55	01	04	04	09	4*PRESENT	NP	03	03	03	03	NT	NT	NT	NT
336	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
339	02	11	NT	NT	01	04	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
340	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
343	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
349	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT

Table 21. Individual laboratory results for DNA # 1081 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	02	11	15	55	01	04	04	09	NT	NT	NT	NT	03	03	NT	NT	05	05
519	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
615	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	NT	NT
714	02	11	15	55	01	04	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
726	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
732	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
805	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	NT	NT
1251	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
1647	02	11	15	55	01	04	04	09	4*PRESENT	4*PRESENT	03	03	03	03	02	02	05	05
2347	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
3438	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	02	02	05	05
3600	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3849	02	11	15	55	01	04	04	09	NT	NT	NT	NT	03	03	NT	NT	05	05
4237	02	11	15	55	01	04	04	09	4*01	NT	03	03	03	03	02	02	05	05
4420	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
4582	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
4585	02	11	15	55	01	04	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
5451	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	NT	NT
8050	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
9221	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05
Final Consensus	02	11	15	55	01	04	04	09	4*01	4*01	03	03	03	03	02	02	05	05

Table 22. Individual laboratory results for DNA # 1082 using Next Generation Sequencing

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
4545	02:01:01G	03:02	27:05:02G	51:01:01G	01:02:01G	15:02:01G	07:01:01G	16:01	NT	NT	NT	NT	02:01:01G	05:02:01G	NT	NT	11:01	15:01
4582	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	4*01:01	5*02:06	01:02	02:01	02:02	05:02	01:04	02:01	11:01	15:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	03:02:01	27:05:02	51:01:01	01:02:01	15:02:01	07:01:01	16:01:01	4*01:01:01	5*02:06	01:02:02	02:01:01	02:02:01	05:02:01	01:04:01	02:01:01	11:01:01	15:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	02:01:01	03:02:01	27:05:02	51:01:01	01:02:01	15:02:01	07:01:01	16:01:01	4*01:01:01	5*02:06	01:02:02	02:01:01	02:02	05:02:01G	01:04:01	02:01:01	11:01:01	15:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus based on High Resolution	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	4*01:01	5*02:06	01:02	02:01	02:02	05:02	01:04	02:01	11:01	15:01

Table 23. Individual laboratory results for DNA # 1082 High Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11:01P	15:01
151	02:01	03:02	27:05	51:01	01:02	15:02	07:01:01:01	16:01:01	NT	NT	NT	NT	02:02	05:02	NT	NT	11:01	15:01
162	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	NT	NT	NT	NT	02:02	05:02	NT	NT	NT	NT
176	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	NT	NT	01:02	02:01	02:02	05:02	01:04	02:01	11:01	15:01
193	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	NT	NT	NT	NT	02:02	05:02	NT	NT	NT	NT
207	02:01:01	03:02:01	27:05:02	51:01:01	01:02:01	15:02:01	07:01:01	16:01:01	4*01:01:01	5*02:06	01:02:02	02:01:01	02:02:01	05:02:01	01:04	02:01:01	11:01:01	15:01:01
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:01	03:02	27:03	51:01	01:02	15:02	07:01	16:01	4*01:01	5*02:02	01:02	02:01	02:02	05:02	01:04	02:01	11:01	15:01
288	NT	NT	NT	NT	NT	NT	07:01	16:01	NT	NT	NT	NT	02:02	05:02	NT	NT	NT	NT
292	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	NT	NT	NT	NT	02:02	05:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	NT	NT	NT	NT	02:02	05:02	NT	NT	NT	NT
317	02:24	03:02	27:03	51:01	01:02	15:02	07:01	16:01	4*01:01	5*02:02	01:02	02:01	02:02	05:02	01:04	02:01	11:01	15:01
343	02:01	03:02	27:03	51:01	01:02	14:02	07:01	16:01	NT	NT	01:02	02:01	02:02	05:02	NT	NT	NT	NT
1251	02:01:01G	03:02:01	27:05:02G	51:01:01G	01:02:01G	15:02:01G	07:01:01G	16:01:01	4*01:01	5*02:02:01G	NT	NT	02:01:01G	05:02:01G	NT	NT	11:01:01G	15:01
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11:01P	15:01
3849	02:01:01G	03:02:01	27:05:02G	51:01:01G	01:02:01G	15:02:01G	07:01	16:01	NT	NT	NT	NT	02:01:01G	05:02:01G	NT	NT	11:01:01G	15:01
4420	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	NT	5*02:02	01:02	02:01	NT	05:02	01:04	02:01	11:01	15:01
5451	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	03:02	27:05	51:01	01:02	15:02	07:01	16:01	4*01:01	5*02:06	01:02	02:01	02:02	05:02	01:04	02:01	11:01	15:01

Table 24. Individual laboratory results for DNA # 1082 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	02	03	27	51	01	15	07	16	4*01	5*01	01	02	02	05	01	02	11	15
126	02	03	27	51	01	15	07	16	4*PRESENT	5*PRESENT	NT	NT	02	05	NT	NT	NT	NT
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
144	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
147	02	03	27	51	01	15	07	16	NT	NT	NT	NT	02	05	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	03	27	51	NT	NT	07	16	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
162	02	03	27	51	01	15	07	16	NT	NT	NT	NT	02	05	NT	NT	NT	NT
189	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	NT	NT
190	02	03	27	51	01	15	07	16	4*PRESENT	5*PRESENT	NT	NT	02	05	NT	NT	NT	NT
192	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
195	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
199	NT	NT	NT	NT	NT	NT	07	15	NT	NT	NT	NT	02	05	NT	NT	NT	NT
205	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11	15
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	NT	NT	NEW	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	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
228	02	03	27	51	01	15	07	16	4*PRESENT	5*PRESENT	NT	NT	02	05	NT	NT	NT	NT
239	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
244	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT
252	02	03	27	51	01	15	07	16	4*PRESENT	5*PRESENT	01	02	02	05	NT	NT	NT	NT
255	02	03	27	51	NT	NT	07	16	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	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
266	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	01	02	11	15
267	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
278	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
279	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
280	02	03	27	51	01	15	07	16	NT	NT	NT	NT	02	05	NT	NT	NT	NT
282	02	03	27	51	01	15	07	16	NT	NT	NT	NT	02	05	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT
288	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT
292	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT
294	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	11	15
300	02	03	27	51	01	15	07	16	NT	NT	NT	NT	02	05	NT	NT	NT	NT
304	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT
305	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT
309	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	01	02	11	15
329	02	03	27	51	01	15	07	16	4*PRESENT	5*PRESENT	01	02	02	05	NT	NT	NT	NT
336	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
339	02	03	27	51	01	15	07	16	4*PRESENT	5*PRESENT	NT	NT	02	05	NT	NT	NT	NT
340	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
343	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT
349	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
350	02	03	27	51	01	05	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT

Table 24. Individual laboratory results for DNA # 1082 Low Resolution

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
402	02	03	27	51	01	15	07	16	NT	NT	NT	NT	02	05	NT	NT	11	15
519	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
615	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	NT	NT
714	02	03	27	51	01	15	07	16	NT	NT	NT	NT	02	05	NT	NT	NT	NT
726	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
732	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
805	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	NT	NT
1251	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
1647	02	03	27	51	01	15	07	16	4*PRESENT	5*PRESENT	01	02	02	05	01	02	11	15
2347	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
3438	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	01	02	11	15
3600	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3849	02	03	27	51	01	15	07	16	NT	NT	NT	NT	02	05	NT	NT	11	15
4237	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
4420	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
4582	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
4585	02	03	27	51	01	15	07	16	NT	NT	01	02	02	05	NT	NT	NT	NT
5451	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	NT	NT
8050	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
9221	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9225	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15
Final Consensus	02	03	27	51	01	15	07	16	4*01	5*02	01	02	02	05	01	02	11	15

Table 25. Individual laboratory results for DNA # 1077 High Resolution

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:03:01:06/01:10/01:11	01:03:02G	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	01:03:01	01:03:02	01:01:01	01:01:01	01:01:01	01:01:01	01:01:01	02:02:01	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:21-1750	
1686	01:03:01:01	01:03:02:01	01:01:01:--	01:01:01:08	01:01:01:01	01:01:01:04	01:01:01:01	02:02:01:01	005:02	005:02	NGS-AlloSeq Tx17	HLA-F: F*01:01:01:01 or F*01:01:01:17

Table 26. Individual laboratory results for DNA # 1078 High Resolution

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118	01:03:02G	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	003:01/005:02/005:08/006/010	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:05	01:01:01	01:01:01	01:01:01	01:01:01	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:21-1750	
1686	01:01:01:--	01:03:02:--	01:01:01:--	01:05	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*01:01:01:01/20 + E*01:03:02:06 = E*01:01:01:03 + E*01:03:02:01 HLA-F: F*01:01:01:01 or F*01:01:01:17

Table 27. Individual laboratory results for DNA # 1079 High Resolution

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:01/01:09/01:12/01:13/01:14/01:15/01:118	01:03:02G	NT	NT	NT	NT	NT	NT	003:01/005:02/005:08/006/010	004:01/028	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:01:01	01:01:01	01:04:01	01:01:01	DEL	004:01	005:02	NGS-CareDx Alloseq Tx17 lot:21-1750	
1686	01:01:01:--	01:03:02:01	01:01:01:--	01:01:01:09	01:01:01:01	01:04:01:01	01:01:01:01	DEL	See Comment	See Comment	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20 HLA-F: F*01:01:01:01 or F*01:01:01:17 MICB: MICB*004:01+ MICB*005:02 = MICB*010 + MICB*028

Table 28. Individual laboratory results for DNA # 1080 High Resolution

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:01/01:09/01 :12/01:13/01:1 4/01:15/01:118	01:01/01:09/0 1:12/01:13/01: 14/01:15/01:1 18	NT	NT	NT	NT	NT	NT	003:01/005:02/00 5:08/006/010	003:01/005:02/00 5:08/006/010	NGS-INH	
227	01:01:01	01:01:01	01:01:01	01:01:01	01:04:01	01:06:01	02:01:01	DEL	005:02	005:02	NGS-CareDx Alloseq Tx17 lot:21-1750	
1686	01:01:01:--	01:01:01:--	01:01:01:09	01:01:01:09	01:04:01:01	01:06:01:01	02:01:01:01	DEL	005:02	005:02	NGS-AlloSeq Tx17	HLA-E: E*01:01:01:01 or E*01:01:01:20

Table 29. Individual laboratory results for DNA # 1081 High Resolution

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:01/01:09/01 :12/01:13/01:1 4/01:15/01:118	01:03/01:06/0 1:10/01:11	NT	NT	NT	NT	NT	NT	003:01/005:02/00 5:08/006/010	003:01/005:02/00 5:08/006/010	NGS-INH	
227	01:01:01	01:03:01	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:21-1750	
1686	01:01:01:--	01:03:01:--	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*01:01:01:01/20 + E*01:03:01:04 = E*01:01:01:03 + E*01:03:01:01 HLA-F: F*01:01:01:01 or F*01:01:01:17

Table 30. Individual laboratory results for DNA # 1082 High Resolution

CENTER	E		F		G		H		MICB		Methods	Comments
192	01:01/01:09/01 :12/01:13/01:1 4/01:15/01:118	01:03:02G	NT	NT	NT	NT	NT	NT	002:01/002:03/01 8:01	003:01/005:02/00 5:08/006/010/019 :01/038	NGS-INH	
227	01:01:01	01:03:02	01:01:01	01:03:01	01:01:01	01:01:01	01:01:01	02:04:01	002:01	005:02	NGS-CareDx Alloseq Tx17 lot:21-1750	
1686	01:01:01:04	01:03:02:01	01:01:01:--	01:03:01:--	01:01:01:01	:01:01:01:05	01:01:01:01	02:04:01	002:01	005:02	NGS-AlloSeq Tx17	HLA-F: F*01:01:01:01 or F*01:01:01:17 and F*01:03:01:01 or F*01:03:01:04

DNA Exchange - 176 Participants and Methods High Resolution

Center No	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
80	SSO-OL	SSO-OL	SSO-OL						SSO-OL rtPCR-LS
124	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
125	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG	NGS-TBG
134	NGS-GIL	NGS-GIL-Tx8	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
144	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
147	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
148	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
151	SBT-LT	SBT-LT	SBT-LT	SBT-LT			SBT-LT		SBT-LT
158	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD
160	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OLE	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL
162	SBT-BS	SBT-BS	SBT-BS	SBT-BS			SBT-BS		
173	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
176	SBT-INH	SBT-INH	SBT-INH	SBT-INH			SBT-INH	SBT-INH	SBT-INH
185	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH		NGS-INH
188	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL SBT-ACT		NGS-GIL	NGS-GIL SSP-OLE	NGS-GIL	NGS-GIL
189	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
190	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
192	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-GIL-INH
193	SBT-SC SSO-LUM-OL	SBT-SC-TBG SSO-LUM-OL	SBT-SC SSO-LUM-OL	SBT-SC SSO-LUM-OL			SBT-SC SSO-LUM-OL		
195	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
205	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
207					SSP-OLE				
209	SBT-GD SSO-OL	SBT-GD SSO-OL	SBT-GD SSO-OL	SBT-GD SSO-OL	SBT-GD SSP-OLE	SBT-GD SSP-OLE-TEP	SBT-GD SSO-OL		SBT-GD SSO-OL
213	NGS-HM	NGS-HM	NGS-HM	NGS-HM	NGS-HM-IMM SSP-OLE	NGS-HM SSP-OLE	NGS-HM	NGS-HM	NGS-HM SSP-OLE
218	NGS-INH	NGS-INH	NGS-INH	NGS-INH			NGS-INH		NGS-INH
227	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
245	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
258	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD
262				SSP-OL-OLE		SSO-OL SSP-OLE	SSO-OL SSP-OLE		
264	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG
267	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-LUM-OL
279	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX	SSP-OLE	NGS-OMX SSP-OLE
288				SSO-OLE SSP-OLE			SSP-OLE		
290	NGS-OL	NGS-OL		NGS-OL					
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		
294	NGS-OMX	SSO-IMM	NGS-OMX	NGS-OMX		NGS-OMX	NGS-OMX		NGS-OMX
298	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
311						SSP-OLE			
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	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-LUM-OL

Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
321	NGS-OL SSO-OL SSP-OLE	NGS-OL SSO-OL	NGS-OL SSO-OL SSP-OLE	NGS-OL SSO-OL		NGS-OL SSO-OL SSP-OLE	NGS-OL SSO-OL-TEP SSP-OLE		NGS-OL SSP-OLE
340	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
343	SSO-OLE	SSO-OLE	SSO-OLE	SSO-OLE	SSO-OLE	SSO-OLE	SSO-OLE		
353	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
402	NGS-OL SBT-GD	NGS-OL SBT-GD	NGS-OL SBT-GD	NGS-OL SBT-GD	NGS-OL SBT-GD		NGS-OL SBT-GD		NGS-OL SBT-GD
403	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
726	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
769	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
805	NGS-GIL								
1189	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
1251	SBT-PRO	SBT-PRO	SBT-PRO	SBT-PRO	SBT-PRO SSP-OL-OLE		SBT-PRO		SBT-PRO
1686	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
2063	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
2347	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
2518	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL-LS SSO-OL	NGS-GIL SSO-OL
2862	NGS-IL-OMX	NGS-IL-LUM-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX	NGS-IL-OMX
3325	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
3410	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL SSO-OL
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									rPCR-LB
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	SBT-CG-INH	SBT-CG-INH	SBT-CG-INH	SBT-OL			SBT-OL		SBT-INH-OL
4237	NGS-GIL	NGS-GIL SBT-TBG	NGS-GIL	NGS-GIL	SSP-OLE	SSO-IMM SSP-OLE	NGS-GIL SSP-OLE	SSO-IMM	NGS-GIL
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK
4545	NGS-OL SBT-SC SSO-OL	SBT-SC SSO-OL	SBT-SC SSO-OL	SBT-SC SSO-OL			SBT-SC SSO-OL		SBT-SC SSO-OL
4582	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
5451		SBT-INH	SBT-INH		SBT-INH	SBT-INH			
6051	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
14982	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL

DNA Exchange - 176 Participants and Methods Low Resolution

Center No	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
80	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS
126	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG		SSP-TBG		
134	SSO-OL SSP-OLE rtPCR-LS	SSO-OL SSP-OLE rtPCR-LS	SSO-OL SSP-OLE rtPCR-LS	SSO-OL SSP-OLE rtPCR-LS		SSO-OL rtPCR-LS	SSP-OLE rtPCR-LS	rtPCR-LS	SSP-OLE rtPCR-LS
144	Other-Others rtPCR-LS	Other-Others rtPCR-LS	Other-Others rtPCR-LS	Other-Others rtPCR-LS	Other-Others rtPCR-LS	Other-Others rtPCR-LS	Other-Others rtPCR-LS	Other-Others rtPCR-LS	Other-Others rtPCR-LS
147	SSP-OLE rtPCR-CQ	SSP-OLE rtPCR-CQ	SSP-OLE rtPCR-CQ	SSP-OLE rtPCR-CQ		SSP-OLE rtPCR-CQ	SSP-OLE rtPCR-CQ	rtPCR-CQ	rtPCR-CQ
148	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG			SSO-BAG		
151	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		SSO-OL
152	SSP-OL	SSP-OL		SSP-OL					
158	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS
162	SSP-BS	SSP-BS	SSP-BS	SSP-BS			SSP-BS		
189	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
190	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE	SSP-OLE		
192	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
195	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB
199				SSP-OL			SSP-OL		
205	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
207	SSO-IMM SSP-OLE rtPCR-LS	SSO-IMM SSP-OLE rtPCR-LS	SSO-IMM SSP-OLE rtPCR-LS	SSO-IMM SSP-OLE rtPCR-LS		SSO-IMM rtPCR-LS	SSO-IMM SSP-OLE rtPCR-LS	SSO-IMM rtPCR-LS	SSO-IMM SSP-OLE rtPCR-LS
209	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-PRO		SSO-OL		
213	SSP-INN-OLE	SSP-INN-OLE	SSP-INN-OLE	SSP-INN-OLE		SSP-INN	SSP-INN-OLE	SSP-INN	SSP-INN
215	SSP-BR	SSP-BR	SSP-BR	SSP-OLE	SSP-OLE		SSP-OLE		
227	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
228	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG		SSP-BAG		
239	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
244	SSO-BAG SSP-OL	SSO-BAG SSP-OL	SSO-BAG SSP-OL	SSO-BAG SSP-OL		SSO-BAG SSP-OLE	SSO-BAG SSP-OL		
252	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT
255	SSO-OL	SSO-OL		SSO-OL					
262	SSP-BR-PRO	SSP-BR-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
265	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSO-OL	SSO-OL	SSP-OL	SSO-OL	SSP-OL
266	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
267	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-LUM-OL
279	SSP-LB-OLE	SSP-LB-OLE	SSP-LB-OLE	SSP-LB-OLE	SSP-LB	SSP-LB	SSP-LB-OLE	SSP-LB	SSP-LB
280	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
282	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
285	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
288	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG		SSO-BAG	SSO-BAG		
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
294	Other-Others SSO-IMM SSP-LS-OLE	Other-Others SSO-IMM SSP-LS-OLE	Other-Others SSO-IMM SSP-LS-OLE	Other-Others SSO-IMM SSP-LS-OLE		Other-Others SSO-IMM SSP-LS	Other-Others SSO-IMM SSP-LS-OLE		SSP-LS-OLE
300	SSP-OL	SSP-OL	SSP-OL	SSP-OL			SSP-OL		
304	SSO-GTI	SSO-GTI	SSO-GTI	SSO-GTI		SSO-GTI	SSO-GTI		
305	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM		SSO-IMM	SSO-IMM		
309	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
311	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
318	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
329	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT		
339	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT

Participants and Methods Low Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
340	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
343	SSO-OLE	SSO-OLE	SSO-OLE	SSO-OLE	SSO-OLE	SSO-OLE	SSO-OLE		
346	SSP-OLE	SSP-OLE		SSP-OLE					
350	SSO-IMM	SSO-IMM	SSO-HM-IMM	SSO-IMM		SSO-IMM	SSO-IMM		
402	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		SSO-OL-TEP
519	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM
615	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS
714	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL			SSO-LUM-OL		
726	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS
732	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
805	SSO-IMM								
1251	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM	Other-Others SSO-IMM
1647	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
2347	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
3438	SSO-LC	SSO-LC	SSO-LC	SSO-LC		SSO-LC	SSO-LC	SSO-LC	SSO-LC
3600	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB		rtPCR-LB	rtPCR-LB	
3849	SSO-INH	SSO-INH	SSO-INH	SSO-INH			SSO-INH		
4237	SSO-IMM	SSO-IMM	SSO-IMM	SSO-GIL-IMM	SSO-IMM	SSO-GIL-IMM	SSO-IMM	SSO-IMM	SSO-IMM
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK
4582	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
4585	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
5451	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	SSO-LUM rtPCR-LS	SSO-LUM rtPCR-LS	SSO-LUM rtPCR-LS	rtPCR-LS	
8050	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ
9221	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB
9222	SSO-LUM	SSO-LUM		SSO-LUM			SSO-LUM		
9225	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ