

# UCLA INTERNATIONAL HLA DNA EXCHANGE—144TH SUMMARY



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DNA Sample	
#885	#888
#886	#889
#887	#890

## DNA #885 BLACK

The consensus type for this sample from a Black donor is A\*25:01-A\*74:01-B\*08:01-B\*15:03-C\*02:10-C\*07:01-DRB1\*03:01-DRB1\*11:01-DRB3\*01:01-DRB3\*02:02-DQA1\*05:01-DQA1\*05:05-DQB1\*02:01-DQB1\*03:19-DPA1\*02:01-DPA1\*03:01-DPB1\*01:01-DPB1\*105:01.

This sample was previously sent in Exchange #76 as DNA #480 (2006). At that time, C\*02:02 (86%), DQB1\*03:01 (100%), and DPB1\*06:02 (52%) were assigned. In the present typing, C\*02:10 (97%), DQB1\*03:19 (97%), DPB1\*105:01 (97%) were assigned by labs reporting at high resolution.

The likely associations in this cell are B\*08:01-DRB1\*03:01 and B\*15:03-DRB1\*11:01, with respective frequencies of HF=0.01953 and HF=0.01154 as seen in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #885 are summarized in Table 1 and individual laboratory results are listed in Tables 7 –9.

## DNA #886 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*01:01-A\*25:01-B\*51:01-B\*57:01-C\*06:02-C\*12:03-DRB1\*04:07-DRB1\*13:02-DRB3\*03:01-DRB4\*01:03-DQA1\*01:02-DQA1\*03:03-DQB1\*03:01-DQB1\*06:04-DPA1\*01:03-DPB1\*02:01-DPB1\*03:01.

This sample was previously sent in Exchange #96 as DNA #598 (2009). The assignment of DQA1\*03:03 improved in this present typing, as 94% of labs reporting at high resolution assigned DQA1\*03:03 compared to only 80% in 2009.

The likely class I associations in this cell are A\*01:01-B\*57:01 and A\*25:01-B\*51:01, with respective frequencies of HF=0.00736 and HF=0.00072 as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #886 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12.

## DNA #887 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*02:01-A\*34:02-B\*40:01-B\*53:01-C\*03:04-C\*06:02-DRB1\*09:01-DRB1\*11:01-DRB3\*02:02-DRB4\*01:01-DQA1\*03:03-DQA1\*05:05-DQB1\*02:02-DQB1\*03:01-DPA1\*01:03-DPA1\*02:01-DPB1\*02:01-DPB1\*131:01.

Three labs reported a result of DPB1\*17:01 as opposed to the consensus result of DPB1\*131:01. Significant differences in allorecognition beyond exon 2 were found between DPB1\*131:01 and DPB1\*17:01 when expressed with DPA1\*02:01, as noted in *Allorecognition of HLA-DP by CD4+ T cells is affected by polymorphism in its alpha chain*, (Lauterbach, et al. Molecular Immunology 2014, 50; 19-29) and as previously mentioned in Exchange #132.

The likely class I association for this cell is B\*40:01-C\*03:04 and B\*53:01-C\*06:02, with respective frequencies of HF=0.01204 and HF=0.00175 as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #887 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15.



DNA Sample	
#885	#888
#886	#889
#887	#890

**DNA #888 ASIAN**

The consensus type for this sample from an Asian donor is A\*02:01-A\*02:06-B\*40:01-B\*55:02-C\*04:01:01G-C\*08:01-DRB1\*04:03-DRB1\*08:03-DRB4\*01:03-DQA1\*01:03-DQA1\*03:01-DQB1\*03:02-DQB1\*06:01-DPA1\*02:02-DPB1\*05:01:01G.

The assignment for the C\*04 subtype in this sample was unresolved, as 16 labs reported C\*04:01 and 31 reported C\*04:82. C\*04:82 differs from C\*04:01:01 in exon 5 where a 9 nucleotide duplication in C\*04:82 results in the insertion of alanine, valine, and leucine. C\*04:82 appears to be the most common C\*04:01:01G allele found among both Filipino and Maori/Polynesian ethnic groups as noted in *Diversity in exon 5 of HLA-C\*04:01:01G is significant in anthropological studies* (Dunn, et al. Human Immunology 2016, 77; 426-428).

At the DPB1 locus, three labs reported a typing of DPB1\*38:01. DPB1\*38:01 differs from DPB1\*05:01:01 by a single nucleotide substitution (GCG->CCG) at codon 17 in Exon 2 resulting in an amino acid change from Alanine to Proline. Additionally, due to the split in reporting between DPB1\*05:01 and DPB1\*135:01, we were unable to resolve consensus at the allelic level.

The likely class I associations in this cell are A\*02:01-B\*40:01 and A\*02:06-B\*55:02 with respective frequencies of HF=0.01238 and HF=0.000202, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #888 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18.

**DNA #889 CAUCASIAN**

The consensus type for this sample from a Caucasian donor is A\*01:01-A\*29:02-B\*08:01-B\*45:01-C\*06:02-C\*07:01-DRB1\*04:01-DRB4\*01:03-DQA1\*03:01-DQA1\*03:03-DQB1\*03:01-DQB1\*03:02-DPA1\*01:03-DPB1\*04:01-DPB1\*04:02.

One likely class I association in this cell is A\*29:02-B\*45:01-C\*06:02, which has a frequency of HF=0.00216. The other likely class I association is A\*01:01-B\*08:01-C\*07:01, the third most common class I haplotype seen in Caucasians, with a frequency of HF=0.09556, according to the NMDP Bioinformatics website.

The results for DNA #889 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21.

**DNA #890 CAUCASIAN**

The consensus type for this sample from a Caucasian donor is A\*03:01-A\*30:02-B\*14:02-B\*35:01-C\*04:01-C\*08:02-DRB1\*08:06-DRB1\*13:01-DRB3\*02:02-DQA1\*01:02-DQA1\*01:03-DQB1\*06:02-DQB1\*06:03-DPA1\*01:03-DPA1\*02:02/02:07-DPB1\*19:01:01G-DPB1\*34:01.

At the high resolution level, 11 labs reported a typing of DPA1\*02:07 or 02:07:01, 7 labs reported a typing of DPA1\*02:02, and 2 labs reported the possibility of a new allele. These conflicting results may have been caused by a recent update in nomenclature. As reported in *Nomenclature for factors of the HLA system, update March 2017* (Marsh, Human Immunology 2017, 78; 461-465), the name for allele DPA1\*02:02:01 was abandoned as its sequence was found to contain errors. The corrected sequence was found to be equivalent to DPA1\*02:07:01.

The likely class I associations in this cell are A\*03:01-B\*35:01-C\*04:01 and A\*30:02-B\*14:02-C\*08:02, with respective frequencies of HF=0.01955 and HF=0.00017, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #890 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24.

**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 29 participants reporting their NGS results (See Tables 7, 10, 13, 16, 19, 22), and the NMDP Bioinformatics website (<https://bioinformatics.bethematchclinical.org>).









**Table 5. Summary of the 144th DNA Exchange (DNA #889)**

A				B				C			
65 labs High / 80 labs Low		% (n)		69 labs High / 82 labs Low		% (n)		65 labs High / 74 labs Low		% (n)	
A*01:01:01:01	9 (6)	A*29:02:01:02	5 (3)	B*08:01:01	28(19)	B*45:01:01	26(18)	C*06:02:01:03	6 (4)	C*07:01:01:01	6 (4)
A*01:01:01	17(11)	A*29:02:01:01	2 (1)	B*08:01:01G	8 (5)	B*45:01:01G	10(7)	C*06:02:01	19(12)	C*07:01:01	17(11)
A*01:01:01G	9 (6)	A*29:02:01	17(11)	B*08:01P	2 (1)	B*45:01P	3 (2)	C*06:02:01G	15(10)	C*07:01:01G	22(14)
A*01:01P	2 (1)	A*29:02:01G	8 (5)	B*08:01	63(42)	B*45:01	61(42)	C*06:02P	3 (2)	C*07:01P	3 (2)
A*01:01	63(41)	A*29:02P	2 (1)	B*08	100(82)	B*45	100(81)	C*06:02	57(37)	C*07:01	52(33)
A*01	100(80)	A*29:02	65(42)					C*06	99(73)	C*07	100(74)
		A*29:01	3 (2)					C*01	1 (1)		
		A*29	98(78)								
		A*36	1 (1)								
		A*24	1 (1)								

  

DRB1				DRB3/4/5				DQA1			
70 labs High / 81 labs Low		% (n)		33 labs High / 42 labs Low		% (n)		42 labs High / 62 labs Low		% (n)	
DRB1*04:01:01	27(19)			DRB4*01:03:01:01	3 (1)			DQA1*03:01:01	24(10)	DQA1*03:03:01	24(9)
DRB1*04:01P	1 (1)			DRB4*01:03:01	18(6)			DQA1*03:01:01G	2 (1)	DQA1*03:01:01G	11(4)
DRB1*04:01	71(50)			DRB4*01:01:01G	12(4)			DQA1*03:01P	2 (1)	DQA1*03:01P	5 (2)
DRB1*04	100(81)			DRB4*01:01P	9 (3)			DQA1*03:01	71(30)	DQA1*03:03	55(21)
				DRB4*01:03	52(17)			DQA1*03	100(62)	DQA1*03:01	5 (2)
				DRB4*01:01	3 (1)					DQA1*03	100(58)
				DRB3*01:03	3 (1)						
				DRB4*01	69(29)						
				DRB4*PRESENT	29(12)						
				DRB3*01	2 (1)						

  

DQB1				DPA1				DPB1			
67 labs High / 77 labs Low		% (n)		23 labs High / 32 labs Low		% (n)		47 labs High / 37 labs Low		% (n)	
DQB1*03:01:01:01	5 (3)	DQB1*03:02:01	24(16)	DPA1*01:03:01:02	4 (1)			DPB1*04:01:01	6 (3)	DPB1*04:02:01	6 (3)
DQB1*03:01:01	20(13)	DQB1*03:02:01G	6 (4)	DPA1*01:03:01	30(7)			DPB1*04:01:01G	51(24)	DPB1*04:02:01G	53(25)
DQB1*03:01:01G	6 (4)	DQB1*03:02P	2 (1)	DPA1*01:03	65(15)			DPB1*04:01P	13(6)	DPB1*04:02P	13(6)
DQB1*03:01P	2 (1)	DQB1*03:02	67(45)	DPA1*01	100(32)			DPB1*04:01	28(13)	DPB1*04:02	26(12)
DQB1*03:01	66(43)	DQB1*03:01	2 (1)					DPB1*105:01	2 (1)	DPB1*126:01	2 (1)
DQB1*03:02	2 (1)	DQB1*03	100(77)					DPB1*04(DP401)	100(37)	DPB1*04(DP402)	97(36)
DQB1*03	100(77)									DPB1*04(DP401)	3 (1)





**Table 7. Individual laboratory results for DNA # 885 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
7	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01:01	11:01:02	3*01:01:02	3*02:02:01	05:01	05:05	02:01:01	03:19:01	02:01	03:01	01:01:01	105:01
16	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01:01	11:01:02	3*01:01:02	3*02:02:01	05:01:01	05:05:01	02:01:01	03:19:01	02:01:02	03:01	01:01:01	105:01
131	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01:01	03:01:01:01	11:01:02	3*01:01:02:01	3*02:02:01:01	05:01:01:02	05:05:01	02:01:01	03:19:01	02:01:02	03:01	01:01:01	105:01
134	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	01:01	105:01
147	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	01:01P	04:02P
185	25:01:01G	74:01:01G	15:03:01G	15:03:01G	02:10:01G	07:01:01G	03:01P	11:01P	3*01:01P	3*02:02P	05:01:01G	05:01:01G	02:01P	03:01P	NT	NT	01:01:01G	04:02:01G
188	25:01:01	74:01:01	08:01:01	15:03:01	02:10	07:01:01:01	03:01	11:01:02	NT	NT	05:01:01:02	05:05	02:01:01	03:19:01	02:01:02	03:01	01:01P	04:02P
192	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	01:01	105:01
195	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01:01:01	11:01:02	3*01:01:02:01	3*02:02:01	05:01	05:05	02:01:01	03:19:01	02:01	03:01	01:01:01	105:01
197	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
205	25:01:01	74:01:01	08:01:01	15:03:01	02:10	07:01:01	03:01:01	11:01:02	3*01:01:02	3*02:02:01	05:01:01	05:05:01	02:01:01	03:19	02:01:02	03:01	01:01:01	105:01
207	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	01:01	105:01
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01	05:05	NT	NT	NT	NT	01:01	105:01
218	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
227	25:01:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01:02:01	3*02:02	NT	NT	02:01	03:19	NT	NT	01:01:01	105:01
234	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	01:01	105:01
258	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01:01	11:01:02	NT	NT	NT	NT	02:01:01	03:19:01	NT	NT	01:01:01	105:01
264	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01:01	11:01:02	3*01:01:02	3*02:02:01	05:01:01	05:05:01	02:01:01	03:19:01	02:01:02	03:01	01:01:01	105:01
294	NT	NT	NT	15:03P	02:10	NT	NT	NT	NT	NT	05:01	05:01P	NT	03:19	NT	NT	NT	NT
519	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01:01	11:01:02	3*01:01	3*02:02	05:01:01	05:05:01	02:01:01	03:19:01	02:01:02	03:01	01:01:01	105:01
726	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
1113	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	01:01	105:01
1212	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	01:01	105:01
1251	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01:01	03:01:01	11:01:02	NT	NT	NT	NT	02:01:01	03:19	NT	NT	NT	NT
3264	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3614	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
3849	25:01:01G	74:01:01G	08:01:01G	15:03:01G	02:10	07:01:01G	03:01:01G	11:01:02	3*01:01:02G	3*02:02:01G	05:01	05:05	02:01:01G	03:01:01G	NT	NT	01:01:01G	04:02:01G
4709	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
45452	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01:01	11:01:02	3*01:01:02	3*02:02:01	05:01:01	05:05:01	02:01:01	03:19:01	02:01:02	03:01	01:01:01	105:01

Final Consensus based on High Resolution	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
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**Table 8. Individual laboratory results for DNA # 885 High Resolution**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
124	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01:01	03:01:01	11:01:02	3*01:01:02	3*02:02:01	05:01:01	05:05:01	02:01:01	03:19:01	02:01:02	03:01	01:01:01	105:01
138	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	01:01	105:01
144	25:01:01	74:01:01G	08:01:01	15:03:01G	02:10	07:01:01G	03:01:01	11:01:02	NT	NT	05:01	05:01:01G	02:01:01	03:19	NT	NT	NT	NT
151	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	01:01	105:01
158	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	01:01	105:01
160	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	NT	NT	02:01	03:19	NT	NT	NT	NT
162	25:01	74:01:01G	08:01	15:03	02:10	07:01:01G	03:01	11:01	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	03:01	11:01	NT	NT	05:01	05:05	02:01	03:19	NT	NT	NT	NT
174	25:01	74:01:01G	08:01	15:03	02:10	07:01:01G	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
175	NT	NT	08:01	15:03	NT	NT	03:01	NT	NT	NT	NT	NT	02:01	03:01	NT	NT	NT	NT
176	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
189	25:01	74:01:01G	08:01	15:03:01G	02:10:01G	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:01	02:01	03:19	02:01	03:01	01:01	105:01
190	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01G	03:01:01:01	11:01:02	NT	NT	NT	NT	02:01:01	03:19:01	NT	NT	NT	NT
193	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
209	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	NT	NT	NT	NT	01:01P	04:02P
214	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01	05:05	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	NT	NT	NT	NT	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	03:01	01:01P	105:01
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01	05:01P	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01	05:05:01	NT	NT	NT	NT	NT	NT	NT
249	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01:01	11:01:02	3*01:01:02	3*02:02:01	05:01:01	05:05:01	02:01:01	03:19:01	02:01:02	03:01	01:01:01	105:01
262	NT	NT	NT	NT	NT	NT	03:01	11:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	25:01	74:01	08:01	15:03	02:02	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:01	02:01	03:01	NT	NT	NT	NT
273	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	NT	NT	NT	NT
274	25:01	74:01	08:01	15:03P	02:10	07:01P	03:01P	11:01P	NT	NT	05:01	05:05	02:01	03:19	NT	NT	NT	NT
275	25:01	74:01	08:01	15:03	NT	NT	03:01	11:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
278	25:01	74:01	08:01	15:03	02:02	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
279	NT	NT	NT	NT	NT	NT	NT	NT	3*01:01	3*02:02	05:01	05:05	NT	03:19	02:01	03:01	01:01	105:01
280	NT	NT	NT	NT	NT	NT	03:01	11:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
281	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	05:01	NT	02:01	03:19	02:01	03:01	01:01	105:01
288	NT	NT	NT	NT	NT	NT	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
289	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	25:01	NT	08:01	15:03	02:02	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
307	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	05:01	05:05	02:01	03:19	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	25:01	74:01:01G	08:01	15:03:01G	02:10	07:01:01G	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	03:01	11:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	25:01	74:01	08:01	15:03	02:02	07:01	03:01	11:01	NP	NP	05:01	02:01	02:01	03:19	02:01	01:03	02:01	03:01
319	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	25:01:01G	74:01:01G	08:01:01G	15:03:01G	02:10:01G	07:01:01G	03:01:01G	11:01:02	3*01:01:02G	3*02:02:01G	NT	NT	02:01:01G	03:01:01G	NT	NT	01:01:01G	04:02:01G
702	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	NT	NT	02:01	03:19	02:01	03:01	01:01	105:01
714	25:01	74:01P	08:01P	15:03P	02:10	07:01P	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
732	25:01:01G	74:01:01G	08:01:01G	15:03:01G	02:10:01G	07:01:01G	03:01:01G	11:01:02	3*01:01:02G	3*02:02:01G	NT	NT	02:01:01G	03:01:01G	NT	NT	01:01:01G	04:02:01G
769	25:01	74:01P	08:01	15:03P	02:02P	07:01	03:01	11:01	3*01:01	3*02:02:01G	NT	NT	02:01	03:19	NT	NT	01:01P	105:01
805	25:01	74:01	08:01	15:03:01G	02:10	07:01:01G	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	01:01	105:01
1498	25:01	74:01:01G	08:01	15:03:01G	02:10	07:01:01G	03:01:01	11:01:02	3*01:01:02G	3*02:02:01G	05:01	05:05:01	02:01:01	03:19:01	NT	NT	01:01:01	105:01
1647	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	01:01	105:01
2063	25:01:01	74:01:01	08:01:01	15:03:01	02:10:01	07:01:01	03:01	11:01	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	NT	NT
2347	25:01	74:01P	08:01	15:03P	02:10	07:01P	03:01	11:01	NT	NT	NT	NT	02:01	03:19	02:01	03:01	01:01	105:01
2518	25:01	74:01	08:01	15:03	02:10	07:01:01G	03:01	11:01	NT	NT	NT	NT	02:01	03:01:01G	NT	NT	NT	NT
2549	25:01:01	74:01:01G	08:01	15:03:01G	02:10	07:01:01G	03:01:01G	11:01:01G	NT	NT	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
2862	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01	NT	NT	03:19	NT	NT	NT	NT	NT
3261	25:01	74:01	08:01	15:03	02:10	07:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3410	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT

**Table 8. Individual laboratory results for DNA # 885 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
3582	25:01	74:01	08:01	15:03:01G	02:10	07:01:01G	03:01:01G	11:01	3*01:01:02G	3*02:02:01G	NT	NT	02:01	03:19	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	105:01
3625	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	05:01	05:05	02:01	03:19	NT	NT	01:01	04:02
4237	25:01:01	74:01:01	08:01	15:03	02:10	07:01	03:01	11:01:02	3*01:01	3*02:02	05:01	05:01P	02:01	03:19	NT	NT	NT	NT
4420	25:01	74:01	NT	15:03	NT	NT	NT	11:01	NT	NT	05:01	05:05	NT	NT	NT	NT	01:01	NT
4545	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
4551	NT	NT	NT	NT	NT	NT	03:01	11:01	3*01:01	3*02:02	NT	NT	02:01	03:19	NT	NT	01:01	105:01
4582	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01	NT	NT	03:19	NT	NT	NT	NT
4613	25:01	74:01P	08:01	15:03	02:10	07:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	NT	NT	08:01:01	15:03:01	02:10:01	07:01:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	03:01	11:01	NT	NT	05:01	NT	02:01	03:19	02:01	03:01	01:01:01G	105:01
6313	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	NT	NT
9222	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	NT	NT	NT	NT	02:01	03:19	NT	NT	01:01	105:01

Final Consensus	25:01	74:01	08:01	15:03	02:10	07:01	03:01	11:01	3*01:01	3*02:02	05:01	05:05	02:01	03:19	02:01	03:01	01:01	105:01
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**Table 9. Individual laboratory results for DNA # 885 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
16	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
134	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	01	105
138	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
142	25	74	08	15	02	07	03	11	3*01	3*02	NT	NT	02	03	NT	NT	NT	NT
144	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
147	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	01	04(DP402)
148	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
168	25	74	08	15	NT	NT	03	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
173	25	74	08	15	NT	NT	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
175	25	74	08	15	NT	NT	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
189	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
190	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	NT	NT	02	03	NT	NT	NT	NT
192	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	01	105
195	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
199	NT	NT	NT	NT	NT	NT	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
205	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
207	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	05	05	02	03	02	03	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05	05	02	03	NT	NT	NT	NT
213	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	01	105
214	NT	NT	08	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05	05	NT	NT	02	03	NT	NT
234	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	01	105
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05	05	NT	NT	NT	NT	NT	NT
239	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	05	05	02	03	02	03	01	105
242	25	74	08	15	02	07	03	11	3*PRESENT	NT	05	05	06	03	NT	NT	NT	NT
245	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	02	03	01	105
250	25	29	08	15	02	07	03	11	3*PRESENT	3*PRESENT	NT	NT	02	03	NT	NT	NT	NT
252	25	74	08	15	NT	NT	03	11	3*PRESENT	3*PRESENT	NT	NT	02	03	NT	NT	NT	NT
255	25	74	08	15	NT	NT	03	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	NT	NT	02	03	NT	NT	NT	NT
265	25	74	08	15	02	07	03	11	3*01	3*02	05	04	02	03	02	03	01	105
266	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	02	03	01	105
267	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	NT	NT
268	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
273	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	NT	NT
274	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
278	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
279	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
280	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
281	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
282	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
285	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
288	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
289	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
290	25	74	08	15	NT	NT	03	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
294	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
304	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
305	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
307	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
309	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	02	03	01	04(DP402)
310	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	NT	NT	02	03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	02	03	01	105

**Table 9. Individual laboratory results for DNA # 885 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
317	25	74	08	15	02	07	03	11	NP	NP	05	02	02	03	02	02	03	02(DP201)
318	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	02	03	01	04(DP402)
319	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	NT	NT	02	03	NT	NT	NT	NT
401	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
402	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
519	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
714	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
726	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
732	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
805	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	01	105
1113	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	NT	NT
1189	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	01	105
1212	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	01	105
1251	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
1647	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	05	05	02	03	02	03	01	105
2063	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
2347	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	02	03	01	105
2549	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
2862	25	74	08	15	02	07	03	11	NT	NT	05	NT	02	NT	NT	NT	NT	NT
3264	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
3325	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	05	05	02	03	NT	NT	01	105
3410	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
3438	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
3582	25	74	08	15	02	07	03	11	3*01	3*02	NT	NT	02	03	NT	NT	NT	NT
3600	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3625	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	01	04(DP402)
3849	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	01	04(DP402)
4237	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
4281	25	74	08	15	02	07	03	11	3*PRESENT	NP	05	NT	02	03	02	03	01	105
4420	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	01	NT
4551	25	74	08	15	02	07	03	11	3*01	3*02	05	NT	02	03	NT	NT	01	105
4582	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105
4585	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
4613	25	74	08	15	02	07	03	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
4709	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	02	03	01	105
5451	NT	NT	08	15	02	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	NT	NT	NT	NT
6313	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	NT	NT	NT	NT
9221	25	74	08	15	02	07	03	11	3*PRESENT	3*PRESENT	05	NT	02	03	02	03	01	105
9222	25	74	08	15	02	07	03	11	NT	NT	05	05	02	03	02	03	01	105
Final Consensus	25	74	08	15	02	07	03	11	3*01	3*02	05	05	02	03	02	03	01	105

**Table 10. Individual laboratory results for DNA # 886 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
7	01:01:01	25:01:01	51:01:01	57:01:01	06:02:01	12:03:01	04:07:01G	13:02:01	3*03:01:01	4*01:03:01	01:02	03:03	03:01:01	06:04:01	01:03	01:03	02:01:02	03:01:01
16	01:01:01	25:01:01	51:01:01	57:01:01	06:02:01	12:03:01	04:07:01	13:02:01	3*03:01	4*01:03	01:02:01	03:03:01	03:01:01	06:04:01	01:03:01	01:03:01	02:01:02	03:01:01
131	01:01:01:01	25:01:01	51:01:01:01	57:01:01	06:02:01:01	12:03:01:01	04:07:01	13:02:01	3*03:01:01	4*01:03:01:01	01:02:01:04	03:03:01	03:01:01:01	06:04:01	01:03:01:01	01:03:01:03	02:01:02	03:01:01
134	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01	03:01
147	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01P	03:01P
185	01:01:01G	25:01:01G	51:01:01G	57:01:01G	06:02P	12:03P	04:07P	13:02P	3*03:01P	4*01:01P	01:02:01G	03:01:01G	03:01P	06:04P	NT	NT	02:01:02G	03:01:01G
188	01:01:01:01	25:01:01	51:01	57:01:01	06:02:01:01	12:03:01:01	04:07	13:02	NT	NT	01:02	03:03:01	03:01	06:04	01:03	01:03	NT	NT
192	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01	03:01
195	01:01	25:01	51:01	57:01	NT	NT	04:07	13:02	NT	NT	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
197	01:01	25:01	51:01	57:01	06:02	12:03	04:07P	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	01:03	NT	02:01	03:01
205	01:01:01	25:01:01	51:01:01	57:01:01	06:02:01	12:03:01	04:07:01	13:02:01	3*03:01:01	4*01:03:01	01:02:01	03:03:01	03:01:01	06:04:01	01:03:01	01:03:01	02:01:02	03:01:01
207	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01	03:01
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	03:03	NT	NT	NT	NT	02:01	03:01
218	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
227	01:01	25:01:01	51:01	57:01	06:02	12:03	04:07:01	13:02:01	3*03:01:01	4*01:03	NT	NT	03:01	06:04	NT	NT	02:01:02	03:01:01
234	01:01:01G	25:01	51:01:01G	57:01	06:02:01G	12:03:01G	04:07:01G	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01	03:01
258	01:01:01	25:01:01	51:01:01	57:01:01	06:02:01	12:03:01	04:07:01	13:02:01	NT	NT	NT	NT	03:01:01	06:04:01	NT	NT	02:01:02	03:01:01
264	01:01:01	25:01:01	51:01:01	57:01:01	06:02:01	12:03:01	04:07:01	13:02:01	3*03:01:01	4*01:03:01	01:02:01	03:03:01	03:01:01	06:04:01	01:03:01	01:03:01	02:01:02G	03:01:01
294	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01P	NT	01:02	03:03	03:01	06:04	NT	NT	NT	NT
519	01:01:01	25:01:01	51:01:01	57:01:01	06:02:01	12:03:01	04:07:01	13:02:01	3*03:01	4*01:03	01:02:01	03:03:01	03:01:01	06:04:01	01:03:01	01:03:01	02:01:02	03:01:01
726	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:01P	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
1113	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01	03:01
1212	01:01	25:01	51:01	57:01	06:02	12:03	04:07:01G	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01	03:01
1251	01:01:01:01	25:01:01	51:01:01	57:01:01	06:02	12:03	04:07:01G	13:02:01	NT	NT	NT	NT	03:01:01	06:04:01	NT	NT	NT	NT
3264	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3614	01:01	25:01	51:01	57:01	12:03	06:02	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
3849	01:01:01G	25:01:01G	51:01:01G	57:01:01G	06:02:01G	12:03:01G	04:07:01G	13:02:01	3*03:01:01G	4*01:01:01G	01:02:01G	03:03	03:01:01G	06:04:01G	NT	NT	02:01:02G	03:01:01G
4709	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
45452	01:01:01	25:01:01	51:01:01	57:01:01	06:02:01	12:03:01	04:07:01G	13:02:01	3*03:01:01	4*01:03:01	01:02:01	03:03:01	03:01:01	06:04:01	01:03:01	01:03:01	02:01:02G	03:01:01G

Final Consensus based on High Resolution	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
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**Table 11. Individual laboratory results for DNA # 886 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	01:01:01:01	25:01:01	51:01:01:01	57:01:01	06:02	12:03	04:07	13:02:01	3*01:01	4*01:03:01	01:02:01	03:03:01	03:01:01	06:04:01	01:03:01	01:03:01	02:01:02	03:01:01
138	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	02:01	03:01
144	01:01:01:01	25:01:01	51:01:01:01	57:01:01	06:02:01	12:03:01:01	04:07:01	13:02:01	NT	NT	01:02:01G	03:01:01G	03:01:01	06:04:01	NT	NT	NT	NT
151	01:01	25:01	51:01	57:01	06:02	12:03	04:07:01G	13:02	NT	NT	NT	NT	03:01:01G	06:04:01G	NT	NT	02:01	03:01
158	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01	03:01
160	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	NT	NT	03:01	06:04	NT	NT	NT	NT
162	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01:01G	06:04:01G	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	04:07	13:02	NT	NT	01:02	03:03	03:01	06:04	NT	NT	NT	NT
174	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
175	01:01	25:01	51:01	57:01	NT	NT	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
176	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
189	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	NT	01:02:01G	03:01:01G	03:01	06:04	01:03	01:03	02:01	03:01
190	01:01:01:01	25:01:01	51:01:01:01	57:01:01	06:02:01G	12:03:01:01	04:07:01	13:02:01	NT	NT	NT	NT	03:01:01:01	06:04:01	NT	NT	NT	NT
193	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
209	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	03:01P
214	NT	NT	51:01	57:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	03:03	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	NT	57:01	NT	NT	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	02:01P	03:01P
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02P	03:01P	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	03:03	NT	NT	NT	NT	NT	NT	NT
249	01:01:01	25:01:01	51:01:01	57:01:01	06:02:01	12:03:01	04:07:01	13:02:01	3*03:01:01	4*01:03:01	01:02:01	03:03:01	03:01:01	06:04:01	01:03:01	01:03:01	02:01:02	03:01:01
262	NT	NT	NT	57:01	06:02	NT	04:07	13:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	01:01	25:01	51:01	57:01	06:02	12:02	04:07	13:02	3*03:01	4*01:01	01:02	03:02	03:01	06:04	NT	NT	NT	NT
273	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	NT	NT	NT	NT
274	01:01	25:01	51:01P	57:01	06:02P	12:03P	04:07P	13:02P	NT	NT	01:02	03:03	03:01	06:04	NT	NT	NT	NT
275	01:01	25:01	51:01	57:01	NT	NT	04:07	13:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
278	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
279	NT	NT	NT	NT	NT	NT	NT	NT	4*01:03	3*03:01	01:02	03:03	NT	NT	NT	NT	02:01:02G	03:01:01G
280	NT	NT	NT	NT	NT	NT	04:07	13:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
281	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	01:03	01:03	02:01	03:01
288	NT	NT	NT	NT	NT	NT	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
289	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	NT	NT	03:01	06:04	NT	NT	NT	NT
292	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
307	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	01:02	03:03	03:01	06:04	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	01:01	25:01	51:01:01G	57:01	06:02:01G	12:03:01G	04:07:01G	13:02	NT	NT	NT	NT	03:01:01G	06:04:01G	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	01:01	25:01	51:01	57:01	06:03	12:28	04:07	13:02	3*01:01:02:01	4*01:01:01:01	01:02	03:01	03:01	06:04	01:03	01:03	02:01	03:01
319	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
615	01:01:01G	25:01:01G	51:01:01G	57:01:01G	06:02:01G	12:03:01G	04:07:01G	13:02	3*03:01:01G	4*01:01:01G	NT	NT	03:01:01G	06:04:01G	NT	NT	02:01:02G	03:01:01G
702	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	NT	NT	03:01	06:04	01:03	01:03	02:01	03:01
714	01:01	25:01	57:01	51:01P	06:02	12:03P	04:07P	13:02	NT	NT	NT	NT	06:04P	03:01P	NT	NT	NT	NT
732	01:01:01G	25:01:01	51:01:01G	57:01:01	06:02:01G	12:03:01G	04:07:01G	13:02:01	3*03:01:01G	4*01:01:01G	NT	NT	03:01:01G	06:04:01G	NT	NT	02:01:02G	03:01:01G
769	01:01	25:01	51:01	57:01	06:02	12:03	04:07P	13:02	3*03:01	4*01:01P	NT	NT	03:01	06:04	NT	NT	02:01P	03:01P
805	01:01	25:01	51:01	57:01	06:02	12:03:01G	04:07:01G	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	02:01	03:01
1498	01:01:01G	25:01	51:01:01G	57:01	06:02:01G	12:03:01G	04:07:01G	13:02:01	3*03:01	4*01:03	01:02	03:03	03:01:01	06:04:01	NT	NT	02:01	03:01:01
1647	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	02:01	03:01
2063	01:01:01	25:01:01	51:01:01	57:01:01	06:02	12:03	04:07:01	13:02:01	NT	NT	NT	NT	03:01:01G	06:04:01G	NT	NT	NT	NT
2347	01:01	25:01	51:01P	57:01	06:02P	12:03P	04:07P	13:02	NT	NT	NT	NT	03:01P	06:04P	01:03	01:03	02:01	03:01
2518	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
2549	01:01	25:01	51:01:01G	57:01	06:02	12:03:01G	04:07:01G	13:02	NT	NT	01:02	03:03	03:01	06:04	01:03	NT	02:01:02G	03:01:01G
2862	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3261	01:01	25:01	51:01	57:01	06:02	12:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3410	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT

**Table 11. Individual laboratory results for DNA # 886 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
3582	01:01	25:01	51:01	57:01	06:02:01G	12:03:01G	04:07:01G	13:02:01	3*03:01	4*01:01:01G	NT	NT	03:01	06:04	NT	NT	02:01:02G	03:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	03:01P
3625	01:01	25:01	51:01	57:01	NT	NT	04:07	13:02	NT	NT	01:02	03:02	03:01	06:04	NT	NT	02:01	03:01
4237	01:01	25:01:01	51:01	57:01:01	06:02	12:03	04:07:01	13:02:01	3*03:01	4*01:03	01:02P	03:01P	03:01	06:04	NT	NT	NT	NT
4420	01:01	25:01	51:01	57:01	06:02	12:03	04:07	NT	NT	NT	01:02	03:03	NT	06:04	NT	NT	02:01	NT
4545	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
4551	NT	NT	NT	NT	NT	NT	04:07	13:02	3*03:01	4*01:03	NT	NT	03:01	06:04	NT	NT	02:01	03:01
4582	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4613	01:01	25:01	51:01	57:01	06:02	12:03P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	NT	NT	51:01:01	57:01:01	06:02:01:01	12:03:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	04:07	13:02	NT	NT	NT	NT	03:01	06:04	01:03	NT	02:01:02G	03:01:01G
6313	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	NT	NT
9222	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	NT	NT	NT	NT	03:01	06:04	NT	NT	02:01	03:01

Final Consensus	01:01	25:01	51:01	57:01	06:02	12:03	04:07	13:02	3*03:01	4*01:03	01:02	03:03	03:01	06:04	01:03	01:03	02:01	03:01
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**Table 12. Individual laboratory results for DNA # 886 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
16	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
134	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
138	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
142	01	25	51	57	06	12	04	13	3*03	4*01	NT	NT	03	06	NT	NT	NT	NT
144	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
147	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
148	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
168	01	25	51	57	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
173	01	25	51	57	NT	NT	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
175	01	25	51	57	NT	NT	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
189	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
190	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
192	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
195	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	03
199	NT	NT	NT	NT	NT	NT	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
205	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
207	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	03	06	NT	NT	NT	NT
213	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	02(DP201)	03
214	NT	NT	51	57	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	NT	NT	01	01	NT	NT
234	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	NT	NT	NT	NT	NT	NT
239	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	02(DP201)	NT
242	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	01	03	03	02	NT	NT	NT	NT
245	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	03
250	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
252	01	25	51	57	NT	NT	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
255	01	25	51	57	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
265	01	25	51	57	06	12	04	13	3*01	4*01	01	03	03	06	01	01	02(DP201)	03
266	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	03
267	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	NT	NT
268	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
273	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	NT	NT
274	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
278	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
279	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
280	01	25	51	57	06	12	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
281	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
282	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
285	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
288	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
289	01	25	51	57	06	12	04	13	3*03	4*01	NT	NT	03	06	NT	NT	NT	NT
290	01	25	51	57	NT	NT	04	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
294	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
304	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
305	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
307	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
309	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	03
310	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	03

**Table 12. Individual laboratory results for DNA # 886 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
317	01	25	51	57	06	12	04	13	3*01	4*01	01	03	03	06	01	01	02(DP201)	03
318	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	02	03	01	01
319	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	NT	NT	03	06	NT	NT	NT	NT
401	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
402	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
519	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
714	01	25	51	57	06	12	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
726	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
732	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
805	01	25	51	57	06	12	04	13	NT	NT	NT	NT	03	06	NT	NT	02(DP201)	03
1113	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	NT	NT
1189	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
1212	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
1251	01	25	51	57	06	12	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
1647	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	01	02(DP201)	03
2063	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
2347	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	03
2549	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	NT	02(DP201)	03
2862	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
3264	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
3325	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	01	03	03	06	NT	NT	02(DP201)	03
3410	01	25	51	57	06	12	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
3438	01	25	51	57	06	12	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
3582	01	25	51	57	06	12	04	13	3*03	4*01	NT	NT	03	06	NT	NT	NT	NT
3600	01	25	51	57	06	12	04	13	3*03	4*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
3625	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	02(DP201)	03
3849	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
4237	01	25	51	57	06	12	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4281	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	NT	02(DP201)	03
4420	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	02(DP201)	NT
4551	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	NT	NT	02(DP201)	03
4582	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
4585	01	25	51	57	NT	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
4613	01	25	51	57	06	12	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4709	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	03
5451	NT	NT	51	57	06	12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	NT	NT
6313	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	NT	NT	NT	NT
9221	01	25	51	57	06	12	04	13	3*PRESENT	4*PRESENT	01	03	03	06	01	NT	02(DP201)	03
9222	01	25	51	57	06	12	04	13	NT	NT	01	03	03	06	01	01	02(DP201)	03

Final Consensus	01	25	51	57	06	12	04	13	3*03	4*01	01	03	03	06	01	01	02(DP201)	03
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**Table 13. Individual laboratory results for DNA # 887 using Next Generation Sequencing**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
7	02:01:01	34:02:01	40:01:02	53:01:01	03:04:01	06:02:01	09:01:02G	11:01:01	3*02:02:01	4*01:01:01	03:03	05:05	02:02:01	03:01:01	01:03	02:01	02:01:02G	17:01:01G
16	02:01:01	34:02:01	40:01:02	53:01:01	03:04:01	06:02:01	09:01:02	11:01:01	3*02:02:01	4*01:01:01	03:03:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:01	02:01:02	131:01
131	02:01:01:01	34:02:01	40:01:02	53:01:01	03:04:01:01	06:02:01:01	09:01:02	11:01:01	3*02:02:01:02	4*01:01:01:01	03:03:01	05:05:01:02	02:02:01	03:01:01:03	01:03:01:02	02:01:01	02:01:02G	131:01
134	02:01	34:02	40:01	53:01	03:04	06:02	09:01:02G	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	NT	NT	02:01	131:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	34:02:01	40:01:01G	53:01:01G	03:04:01G	06:02:01G	09:01P	11:01P	3*02:02P	4*01:01P	03:01:01G	05:01:01G	02:01P	03:01P	NT	NT	02:01:02G	17:01:01G
188	02:01	34:02:01	40:01	53:01:01	03:04:01:01	06:02:01:01	09:01P	11:01	NT	NT	03:03:01	05:05	02:02	03:01	01:03	02:01	02:01P	17:01P
192	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	NT	NT	02:01	17:01:01G
195	NT	NT	40:01	53:01	NT	06:02	09:01	NT	NT	4*01:01	NT	NT	NT	NT	NT	NT	02:01	17:01
197	02:01	34:02	40:01	53:01	03:04	06:02	09:01P	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	01:03	02:01	02:01	131:01
205	02:01:01	34:02:01	40:01:02	53:01:01	03:04:01	06:02:01	09:01:02	11:01:01	3*02:02:01	4*01:01:01	03:03:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:01	02:01:02	131:01
207	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	03:03	05:05	02:02	03:01	NT	NT	02:01	131:01
213	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	03:03	05:05	02:02	03:01	NT	NT	02:01P	17:01P
218	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
227	02:01	34:02	40:01	53:01:01	03:04	06:02	09:01:02	11:01	3*02:02:01	4*01:01	NT	NT	02:02	03:01:01	NT	NT	02:01:02G	17:01:01G
234	02:01:01G	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	02:01	131:01
258	02:01:01	34:02:01	40:01:02	53:01:01	03:04:01	06:02:01	09:01:02G	11:01:01	NT	NT	NT	NT	02:02:01	03:01:01	NT	NT	02:01:02	131:01
264	02:01:01	34:02:01	40:01:02	53:01:01	03:04:01	06:02:01	09:01:02	11:01:01	3*02:02:01	4*01:01:01	03:03:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:01	02:01:02G	17:01:01G
294	02:01P	34:02	40:01	53:01	03:04	06:02P	09:01P	11:01P	NT	4*01:01	NT	NT	NT	NT	NT	NT	02:01P	17:01P
519	02:01:01	34:02:01	40:01:02	53:01:01	03:04:01	06:02:01	09:01:02	11:01:01	3*02:02	4*01:01	03:03:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:01	02:01:02	131:01
726	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01P	03:03	05:05	02:02	03:01	01:03	02:01	02:01	131:01
1113	02:01	34:02	40:01	53:01	03:04	06:02	09:01P	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	NT	NT	02:01P	17:01P
1212	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	NT	NT	02:01:02G	131:01
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	02:01	02:01	131:01
3264	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3614	02:01	34:02	40:01	53:01	NT	06:02	09:01	11:01	3*02:02	NT	NT	NT	02:02	03:01	01:03	02:01	02:01	131:01
3849	02:01:01G	34:02:01	40:01:01G	53:01:01G	03:04:01G	06:02:01G	09:01:02G	11:01:01G	3*02:02:01G	4*01:01:01G	03:03	05:05	02:01:01G	03:01:01G	NT	NT	02:01:02G	17:01:01G
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:03	05:05	NT	NT	NT	NT	02:01	131:01
45452	02:01:01	34:02:01	40:01:02	53:01:01	03:04:01	06:02:01	09:01:02G	11:01:01	3*02:02:01	4*01:01:01	03:03:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:01	02:01:02G	17:01:01G

Final Consensus based on High Resolution	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	01:03	02:01	02:01	131:01
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**Table 14. Individual laboratory results for DNA # 887 High Resolution**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
124	02:01:01:01	34:02:01	40:01:02	53:01:01	03:04:01:01	06:02:01:01	09:01:02G	11:01:01	3*02:02:01	4*01:01:01:01	03:03:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:01	02:01:02G	17:01:01G
138	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	02:01	131:01
144	02:01:01:01	34:02:01	40:01:01	53:01:01	03:04:01:01	06:02:01:01	09:01:02	11:01:01	NT	NT	03:01:01G	05:01:01G	02:02:01:01	03:01:01:01	NT	NT	NT	NT
151	02:01:01G	34:02	40:01	53:01	03:04	06:02	09:01:02G	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	02:01:02G	17:01:01G
158	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	NT	NT	02:01	131:01
160	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	NT	NT	02:02	03:01	NT	NT	NT	NT
162	02:01	34:02	40:01	53:01	03:04	06:02	09:01:02	11:01:01	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	09:01	11:01	NT	NT	03:03	05:05	02:02	03:01	NT	NT	NT	NT
174	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
175	NT	NT	NT	NT	NT	NT	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
176	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
189	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	NT	03:02	05:05	02:02	03:01	01:03	02:01	02:01	131:01
190	02:01:01:01	34:02:01	40:01	53:01:01	03:04:01:01	06:02:01G	09:01:02	11:01:01	NT	NT	NT	NT	02:02:01:01	03:01:01:01	NT	NT	NT	NT
193	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
209	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	NT	NT	02:01P	17:01P
214	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:03	05:05	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	NT	NT	NT	NT	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	01:03	02:01	02:01P	17:01P
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01P	05:01P	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
249	02:01:01	34:02:01	40:01:02	53:01:01	03:04:01	06:02:01	09:01:02	11:01:01	3*02:02:01	4*01:01:01	03:03:01	05:05:01	02:02:01	03:01:01	01:03:01	02:01:01	02:01:02	131:01
262	02:01	NT	NT	NT	NT	06:02	09:01	11:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:02	05:05	02:02	03:01	NT	NT	NT	NT
273	02:01	34:02	40:01	53:01	03:04P	06:02P	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	NT	NT	NT	NT
274	02:01P	34:02	40:01P	53:01	03:04P	06:02P	09:01P	11:01P	NT	NT	03:03	05:05	02:02	03:01	NT	NT	NT	NT
275	02:01	34:02	40:01	53:01	NT	NT	09:01	11:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
278	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	01:03	02:01	02:01	131:01
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	NT	NT	NT	NT	NT	NT	09:01	11:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
281	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	01:03	02:01	02:01	131:01
288	NT	NT	NT	NT	NT	NT	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
289	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
307	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	03:03	05:05	02:02	03:01	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	34:02	40:01	53:01	03:04	06:02:01G	09:01:02G	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*01:01:02:01	4*01:01:01:01	03:03	03:01	02:02	03:01	01:03	02:01	02:01	17:01
319	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	02:01:01G	34:02	40:01:01G	53:01:01G	03:04:01G	06:02:01G	09:01:02G	11:01:01G	3*02:02:01G	4*01:01:01G	NT	NT	02:01:01G	03:01:01G	NT	NT	02:01:02G	17:01:01G
702	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	NT	NT	02:02	03:01	01:03	02:01	02:01	131:01
714	02:01P	34:02	40:01P	53:01	03:04	06:02	09:01P	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
732	02:01:01G	34:02:01	40:01:01G	53:01:01G	03:04:01G	06:02:01G	09:01:02G	11:01:01G	3*02:02:01G	4*01:01:01G	NT	NT	02:01:01G	03:01:01G	NT	NT	02:01:02G	17:01:01G
769	02:01P	34:02	40:01	53:01	03:04	06:02	09:01P	11:01	3*02:02:01G	4*01:01P	NT	NT	02:02	03:01	NT	NT	02:01P	17:01P
805	02:01	34:02	40:01	53:01	03:04	06:02	09:01:02G	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	02:01:02G	17:01:01G
1498	02:01:01G	34:02	40:01	53:01	03:04	06:02:01G	09:01:02G	11:01:01	3*02:02:01G	4*01:01	03:03	05:05:01	02:02:01	03:01:01	NT	NT	02:01	131:01
1647	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	02:01	131:01
2063	02:01	34:02	40:01	53:01	03:04:01	06:02:01	09:01:02	11:01	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	NT	NT
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	02:01	02:01P	17:01P	
2518	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:01:01G	03:01	NT	NT	NT	NT
2549	02:01:01G	34:02	40:01	53:01	03:04	06:02:01G	09:01:02G	11:01:01G	NT	NT	03:03	05:05	02:02	03:01	01:03	02:01	02:01:02G	17:01:01G
2862	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3261	02:01	34:02	40:01	53:01	03:04	06:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3410	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT

**Table 14. Individual laboratory results for DNA # 887 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
3582	02:01	34:02	40:01	53:01	03:04	06:02:01G	09:01:02G	11:01:01G	3*02:02:01G	4*01:01:01G	NT	NT	02:02	03:01	NT	NT	02:01:02G	17:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:01P	17:01P
3625	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	03:03	05:05	02:02	03:01	NT	NT	02:01	17:01
4237	02:01	34:02:01	40:01	53:01:01	03:04	06:02	09:01:02	11:01	3*02:02	4*01:01	03:01P	05:01P	02:02	03:01	NT	NT	NT	NT
4420	02:01	34:02	40:01	53:01	NT	06:02	09:01	11:01	NT	NT	03:03	05:05	NT	NT	NT	NT	02:01	NT
4545	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	01:03	02:01	02:01:02G	17:01:01G
4551	NT	NT	NT	NT	NT	NT	09:01	11:01	3*02:02	4*01:01	NT	NT	02:02	03:01	NT	NT	02:01	17:01:01G
4582	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	01:03	02:01	02:01:02G	17:01:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4613	02:01	34:02	40:01	53:01	03:04	06:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	NT	NT	40:01:02	53:01:01	03:04:01:01	06:02:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	02:01	02:01:02G	131:01
6313	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	NT	NT
9222	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	NT	NT	NT	NT	02:02	03:01	NT	NT	02:01	131:01

Final Consensus	02:01	34:02	40:01	53:01	03:04	06:02	09:01	11:01	3*02:02	4*01:01	03:03	05:05	02:02	03:01	01:03	02:01	02:01	131:01
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**Table 15. Individual laboratory results for DNA # 887 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
16	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
134	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	02(DP201)	131
138	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
142	02	34	40	53	03	06	09	11	3*02	4*01	NT	NT	02	03	NT	NT	NT	NT
144	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
168	02	34	40	53	NT	NT	09	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
173	02	34	40	53	NT	NT	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
175	02	34	40	53	NT	NT	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
189	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
190	02	34	40	53	03	06	09	11	3*PRESENT 4*PRESENT		NT	NT	02	03	NT	NT	NT	NT
192	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	02(DP201)	17
195	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
199	NT	NT	NT	NT	NT	NT	09	13	NT	NT	NT	NT	02	03	NT	NT	NT	NT
205	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
207	02	34	40	53	03	06	09	11	3*PRESENT 4*PRESENT		03	05	02	03	NT	NT	NT	NT
209	02	34	40	53	03	06	09	11	3*PRESENT 4*PRESENT		NT	NT	02	03	NT	NT	NT	NT
213	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	02(DP201)	17
214	NT	NT	40	53	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	05	NT	NT	01	02	NT	NT
234	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	02(DP201)	131
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	05	NT	NT	NT	NT	NT	NT
239	02	34	40	53	03	06	09	11	3*PRESENT 4*PRESENT		03	05	02	03	01	02	02(DP201)	17
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	01	02	NT	NT
250	02	34	40	53	03	06	09	11	3*PRESENT 4*PRESENT		NT	NT	02	03	NT	NT	NT	NT
252	02	34	40	53	NT	NT	09	11	3*PRESENT 4*PRESENT		NT	NT	02	03	NT	NT	NT	NT
255	02	34	40	53	NT	NT	09	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	34	40	53	03	06	09	11	3*PRESENT 4*PRESENT		NT	NT	02	03	NT	NT	NT	NT
265	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
266	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	01	02	02(DP201)	17
267	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	NT	NT
268	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
273	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	NT	NT
274	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
278	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
281	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
282	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
285	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
288	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
289	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
290	02	34	40	53	NT	NT	09	11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
294	02	34	40	53	03	06	09	11	3*02	4*01	NT	NT	02	03	NT	NT	02(DP201)	131
304	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
305	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
307	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
309	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	01	02	02(DP201)	17
310	02	34	40	53	03	06	09	11	3*PRESENT 4*PRESENT		NT	NT	02	03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
316	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	01	02	02(DP201)	17

**Table 15. Individual laboratory results for DNA # 887 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
317	02	34	40	53	03	06	09	11	3*01	4*01	03	03	02	03	01	02	02(DP201)	17
318	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	01	02	02(DP201)	17
319	02	34	40	53	03	06	09	11	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
401	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
402	02	68	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
519	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
714	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
726	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
732	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	131
805	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	NT	NT	02(DP201)	17
1113	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	NT	NT
1189	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	02(DP201)	131
1212	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	02(DP201)	131
1251	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	01	02	02(DP201)	131
1647	02	34	40	53	03	06	09	11	3*PRESENT	4*PRESENT	03	05	02	03	01	02	02(DP201)	131
2063	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
2347	02	34	40	53	03	06	09	11	3*PRESENT	4*PRESENT	03	05	02	03	01	02	02(DP201)	17
2549	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
2862	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
3264	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	01	02	02(DP201)	131
3325	02	34	40	53	03	06	09	11	3*PRESENT	4*PRESENT	03	05	02	03	NT	NT	NT	NT
3410	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
3438	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
3582	02	34	40	53	03	06	09	11	3*02	4*01	NT	NT	02	03	NT	NT	NT	NT
3600	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	NT	NT
3614	NT	NT	NT	NT	03	NT	NT	NT	NT	4*01	03	05	NT	NT	NT	NT	NT	NT
3625	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	02(DP201)	17
3849	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	02(DP201)	17
4237	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
4281	02	34	40	53	03	06	09	11	3*PRESENT	4*PRESENT	03	05	02	03	01	02	02(DP201)	17
4420	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	02(DP201)	NT
4551	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	NT	NT	02(DP201)	17
4582	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
4585	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
4613	02	34	40	53	03	06	09	11	NT	NT	NT	NT	02	03	NT	NT	NT	NT
4709	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	02(DP201)	131
5451	NT	NT	40	53	03	06	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	NT	NT
6313	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	NT	NT	NT	NT
9221	02	34	40	53	03	06	09	11	3*PRESENT	4*PRESENT	03	05	02	03	01	02	02(DP201)	131
9222	02	34	40	53	03	06	09	11	NT	NT	03	05	02	03	01	02	02(DP201)	131

Final Consensus	02	34	40	53	03	06	09	11	3*02	4*01	03	05	02	03	01	02	02(DP201)	17
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**Table 16. Individual laboratory results for DNA # 888 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03	03:01	03:02:01	06:01:01	02:02	02:02	135:01	135:01
16	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01	02:02:02	02:02:02	135:01	135:01
131	02:01:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03:01:01	NP	01:03:01:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01	135:01
134	02:01	02:06	40:01	55:02	04:01:01G	08:01	04:03	08:03	4*01:03	NT	01:03	03:01	03:02	06:01	NT	NT	135:01	135:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	02:06:01G	40:01:01G	55:02:01G	04:01:01G	08:01:01G	04:03P	08:03P	4*01:01P	NP	01:03:01G	03:01:01G	03:02P	06:01P	NT	NT	05:01:01G	05:01:01G
188	02:01	02:06:01	40:01	55:02	04:82	08:01:01	04:03	08:03	NT	NT	01:03	03:01:01	03:02	06:01	02:02:02	02:02:02	05:01P	05:01P
192	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	NT	NT	05:01:01G	05:01:01G
195	NT	NT	40:01	NT	NT	NT	NT	NT	NT	NP	NT	NT	03:02	06:01	NT	NT	05:01P	05:01P
197	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NT	01:03	03:01	03:02	06:01	02:02	NT	135:01	NT
205	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01	135:01
207	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	NT	NT	135:01	135:01
213	NT	NT	NT	NT	NT	NT	04:03	08:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
218	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
227	02:01	02:06:01	40:01	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03	NP	NT	NT	03:02:01	06:01	NT	NT	135:01	135:01
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	NT	NT	NT	NT	03:02:01	06:01	NT	NT	135:01	135:01
264	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01	135:01
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01	135:01
726	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:01P	NP	NT	NT	03:02	06:01	02:02	02:02	135:01	135:01
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	05:01	05:01
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	38:01	38:01
3264	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3614	02:01	02:06	40:01	55:02	04:01:01G	08:01	04:03	08:03	NT	NT	01:03	NT	03:02	06:01	02:02	02:02	05:01:01G	05:01:01G
3849	02:01:01G	02:06:01G	40:01:01G	55:02:01G	04:01:01G	08:01:01G	04:03:01	08:03:02	4*01:01:01G	NP	01:03	03:01	03:02:01G	06:01:01G	NT	NT	05:01:01G	05:01:01G
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01	NT	NT	NT	NT	NT	NT
45452	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01	02:02:02	02:02:02	135:01	135:01

Final Consensus based on High Resolution	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
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**Table 17. Individual laboratory results for DNA # 888 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	02:01:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01	02:02:02	02:02:02	135:01	135:01
138	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	135:01	135:01
144	02:01:01:01	02:06:01	40:01:01	55:02:01	04:82	08:01:01	04:03:01	08:03:02	NT	NT	01:03	03:01:01G	03:02:01	06:01:01	NT	NT	NT	NT
151	02:01:01G	02:06	40:01	55:02	04:01:01G	08:01:01G	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	135:01	135:01
158	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	NT	NT	38:01	38:01
160	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:03	NP	NT	NT	03:02	06:01	NT	NT	NT	NT
162	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02:01G	06:01:01G	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	NT	NT	NT	NT
174	02:01	02:06	40:01	55:02	04:01:01G	08:01:01G	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
175	NT	NT	NT	NT	NT	NT	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
176	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
189	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NP	01:03	03:01:01G	03:02	06:01	02:02	02:02	05:01	05:01
190	02:01:01:01	02:06:01	40:01	55:02:01	04:01:01G	08:01:01G	04:03:01	08:03:02	NT	NT	NT	NT	03:02:01	06:01:01	NT	NT	NT	NT
193	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
209	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	NT	NT	38:01	38:01
214	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01	NT	NT	NT	NT	NT	NT
239	NT	NT	NT	NT	NT	NT	04:03	NT	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01P	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
249	02:01:01	02:06:01	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	4*01:03:01	NP	01:03:01	03:01:01	03:02:01	06:01:01	02:02:02	02:02:02	135:01	135:01
262	02:01	02:06	NT	NT	NT	NT	04:03	08:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:01	NP	01:03	03:01	03:02	06:01	NT	NT	NT	NT
273	02:01	02:06	40:01	55:02	04:01P	08:01P	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	NT	NT	NT	NT
274	02:01P	02:06	40:01P	55:02	04:01P	08:01P	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	NT	NT	NT	NT
275	02:01	02:06	40:01	55:02	NT	NT	04:03	08:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
278	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:03	NT	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	NT	NT	NT	NT	NT	NT	04:03	08:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
281	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
289	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
307	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	03:01	NT	NT	NT	NT	NT	NT
313	02:01	02:06	40:01	55:02	04:01:01G	08:01:01G	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	04:03	08:03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	4*01:01:01:01	NP	01:03	03:01	03:02	06:01	02:02	02:02	05:01	05:01
319	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	02:01:01G	02:06:01G	40:01:01G	55:02:01G	04:01:01G	08:01:01G	04:03	08:03	4*01:01:01G	NP	NT	NT	03:02:01G	06:01:01G	NT	NT	05:01:01G	05:01:01G
702	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	NT	NT	03:02	06:01	02:02	02:02	135:01	135:01
714	02:01P	02:06	40:01P	55:02	04:01P	08:01P	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
732	02:01:01	02:06:01G	40:01:01G	55:02:01G	04:01:01G	08:01:01G	04:03:01	08:03:02	4*01:01:01G	4*01:01:01G	NT	NT	03:02:01G	06:01:01G	NT	NT	05:01:01G	05:01:01G
769	02:01P	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:01P	NP	NT	NT	03:02	06:01	NT	NT	05:01P	05:01P
805	02:01	02:06	40:01	55:02	04:01	08:01:01G	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	135:01	135:01
1498	02:01:01G	02:06	40:01	55:02	04:01:01G	08:01:01G	04:03:01	08:03:02	4*01:03	NP	01:03:01	03:01	03:02:01	06:01	NT	NT	135:01	135:01
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2063	02:01	02:06	40:01:02	55:02:01	04:82	08:01:01	04:03:01	08:03:02	NT	NT	NT	NT	03:02:01G	06:01:01G	NT	NT	05:01:01G	05:01:01G
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	02:02	05:01P	05:01P
2518	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
2549	02:01:01G	02:06	40:01	55:02	04:82	08:01:01G	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	02:02	NT	05:01	NT
2862	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3261	02:01	02:06	40:01	55:02	04:01	08:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3410	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT

**Table 17. Individual laboratory results for DNA # 888 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	NT	NT
3582	02:01:01G	02:06	40:01	55:02	04:01:01G	08:01:01G	04:03	08:03	4*01:01:01G	NP	NT	NT	03:02	06:01	NT	NT	05:01:01G	05:01:01G
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	02:02	135:01	135:01
3625	02:01	02:06	40:01	55:02	NT	NT	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	NT	NT	05:01	05:01
4237	02:01	02:06	40:01	55:02	04:82	08:01:01	04:03:01	08:03:02	4*01:03	NP	01:03	03:01	03:02	06:01	NT	NT	NT	NT
4420	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	01:03	03:01	03:02	06:01	NT	NT	05:01	05:01
4545	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
4551	02:01:01G	02:06:01G	40:01	55:02:01G	04:01:01G	08:01:01G	04:03	08:03	4*01:03	NP	NT	NT	03:02	06:01	NT	NT	135:01	135:01
4582	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4613	02:01	02:06	40:01	55:02	04:01P	08:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	NT	NT	40:01:02	55:02:01	04:82	08:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	04:03	08:03	NT	NP	NT	NT	03:02	06:01	NT	NT	05:01:01G	05:01:01G
6313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9222	02:01	02:06	40:01	55:02	04:01	08:01	04:03	08:03	NT	NT	NT	NT	03:02	06:01	NT	NT	05:01	05:01

Final Consensus	02:01	02:06	40:01	55:02	04:82	08:01	04:03	08:03	4*01:03	NP	01:03	03:01	03:02	06:01	02:02	02:02	135:01	135:01
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**Table 18. Individual laboratory results for DNA # 888 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
16	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
134	02	02	40	55	04	08	04	08	4*01	NT	01	03	03	06	NT	NT	135	135
138	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
142	02	02	40	55	04	08	04	08	4*01	NP	NT	NT	03	06	NT	NT	NT	NT
144	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
168	02	02	40	55	NT	NT	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
173	02	02	40	55	NT	NT	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
175	02	02	40	55	NT	NT	04	08	NT	NT	01	01	03	06	NT	NT	NT	NT
189	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
190	02	02	40	55	04	08	04	08	4*PRESENT	NP	NT	NT	03	06	NT	NT	NT	NT
192	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	NT	NT	05	05
195	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	NT	NT
199	NT	NT	NT	NT	NT	NT	04	13	NT	NT	NT	NT	03	06	NT	NT	NT	NT
205	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
207	02	02	40	55	04	08	04	08	4*PRESENT	NP	01	03	03	06	NT	NT	NT	NT
209	02	02	40	55	04	08	04	08	4*PRESENT	NP	NT	NT	03	06	NT	NT	NT	NT
213	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
214	NT	NT	40	55	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	NT	NT	02	02	NT	NT
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	03	NT	NT	NT	NT	NT	NT
239	02	02	40	55	04	08	04	08	4*PRESENT	NP	01	03	03	06	02	02	38	38
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	02	02	05	05
250	02	NT	40	55	04	08	04	08	4*PRESENT	NP	NT	NT	03	06	FTA	NT	NT	NT
252	02	NT	40	55	NT	NT	04	08	4*PRESENT	NP	NT	NT	03	06	NT	NEW	NT	NT
255	02	02	40	55	NT	NT	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	02	02	40	55	04	08	04	08	4*PRESENT	NP	NT	NT	03	06	NT	NT	NT	NT
265	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	135
266	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	02	02	05	05
267	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	NT	NT	NT	NT
268	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
273	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	NT	NT	NT	NT
274	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
278	02	02	40	55	04	08	04	08	4*01	NT	01	03	03	06	02	02	135	135
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	38	38
281	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
282	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
285	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
288	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
289	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
290	02	02	40	55	NT	NT	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
305	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
307	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
309	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	02	02	05	05
310	02	02	40	55	04	08	04	08	4*PRESENT	NP	NT	NT	03	06	NT	NT	NT	NT
311	02	02	40	55	04	08	04	08	4*PRESENT	4*PRESENT	01	03	03	06	NT	NT	NT	NT
316	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	02	02	05	05

**Table 18. Individual laboratory results for DNA # 888 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
317	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
318	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	02	02	05	05
319	02	02	40	55	04	08	04	08	4*PRESENT	NP	NT	NT	03	06	NT	NT	NT	NT
401	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
402	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
519	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
714	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
726	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
732	02	02	40	55	04	08	04	08	4*01	4*01	01	03	03	06	02	02	05	05
805	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	135	135
1113	02	02	40	55	04	08	04	08	4*01	NT	01	03	03	06	02	02	NT	NT
1189	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	NT	NT	135	135
1212	02	02	40	55	NT	NT	04	08	4*PRESENT	NT	NT	NT	03	06	NT	NT	NT	NT
1251	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	38	38
1647	02	02	40	55	04	08	04	08	4*PRESENT	NP	01	03	03	06	02	02	135	135
2063	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
2347	02	02	40	55	04	08	04	08	4*PRESENT	NP	01	03	03	06	02	02	05	05
2549	02	02	40	55	04	08	04	08	4*01	NT	01	03	03	06	02	NT	05	NT
2862	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
3264	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	02	02	05	05
3325	02	02	40	55	04	08	04	08	4*PRESENT	NP	01	03	03	06	NT	NT	38	38
3410	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
3438	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
3582	02	02	40	55	04	08	04	08	4*01	NP	NT	NT	03	06	NT	NT	NT	NT
3600	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	NT	NT
3614	NT	NT	NT	NT	NT	NT	NT	NT	4*01	NT	NT	03	NT	NT	NT	NT	NT	NT
3625	02	02	40	55	04	08	04	08	4*01	NT	01	03	03	06	NT	NT	05	05
3849	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	NT	NT	05	05
4237	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4281	02	NT	40	55	04	08	04	08	4*PRESENT	NP	01	03	03	06	02	NT	05	NT
4420	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	05	05
4551	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
4582	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	135	135
4585	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
4613	02	02	40	55	04	08	04	08	NT	NT	NT	NT	03	06	NT	NT	NT	NT
4709	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
5451	NT	NT	40	55	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	NT	NT
6313	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	NT	NT	NT	NT
9221	02	NT	40	55	04	08	04	08	4*PRESENT	NT	01	03	03	06	02	NT	05	NT
9222	02	02	40	55	04	08	04	08	NT	NT	01	03	03	06	02	02	05	05

Final Consensus	02	02	40	55	04	08	04	08	4*01	NP	01	03	03	06	02	02	05	05
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**Table 19. Individual laboratory results for DNA # 889 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01	03:01:01G	03:01:01	03:02:01	01:03	01:03	04:01:01G	04:02:01G
16	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03	4*01:03	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G
131	01:01:01:01	29:02:01:02	08:01:01	45:01:01	06:02:01:03	07:01:01:01	04:01:01	04:01:01	4*01:03:01:01	4*01:03:01:01	03:01:01	03:03:01	03:01:01:01	03:02:01	01:03:01:02	01:03:01:05	04:01:01G	04:02:01G
134	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	NT	03:01	03:03	03:01	03:02	NT	NT	04:01:01G	04:02:01G
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	01:01:01G	29:02:01G	08:01:01G	45:01:01G	06:02:01G	07:01:01G	04:01P	04:01P	4*01:01P	4*01:01P	03:01:01G	03:01:01G	03:01P	03:02P	NT	NT	04:01:01G	04:02:01G
188	01:01:01:01	29:02:01:02	08:01:01	45:01:01	06:02:01:03	07:01:01:01	04:01	04:01	NT	NT	03:01:01	03:03:01	03:01	03:02	01:03	01:03	04:01P	04:02P
192	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	NT	NT	04:01	04:02
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
197	01:01	29:02	08:01	45:01	06:02	07:01	04:01	NT	4*01:03	NT	03:01	03:03	03:01	03:02	01:03	NT	04:01	04:02
205	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01	04:02:01
207	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	03:01	03:03	03:01	03:02	NT	NT	04:01:01G	04:02:01G
213	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
218	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
227	01:01:01:01	29:02	08:01:01	45:01	06:02	07:01	04:01:01	04:01:01	4*01:03	4*01:03	NT	NT	03:01:01	03:02:01	NT	NT	04:01:01G	04:02:01G
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	NT	NT	NT	NT	03:01:01	03:02:01	NT	NT	04:01:01G	04:02:01G
264	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03	4*01:03	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G
726	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:01P	4*01:01P	03:01	03:03	03:01	03:02	01:03	01:03	04:01	04:02
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	04:02
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	NT	NT	NT	NT	03:01:01:01	03:02:01	NT	NT	NT	NT
3264	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	3*01:03	3*01:03	03:01:01	03:03:01	03:01:01	03:02:01	NT	NT	04:01:01G	04:02:01G
3614	NT	NT	NT	45:01	NT	NT	NT	NT	NT	NT	03:03	03:01	03:02	01:03	01:03	04:01	04:02	
3849	01:01:01G	29:02:01G	08:01:01G	45:01:01G	06:02:01G	07:01:01G	04:01:01	04:01:01	4*01:01:01G	4*01:01:01G	03:01	03:03	03:01:01G	03:02:01G	NT	NT	04:01:01G	04:02:01G
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45452	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G

Final Consensus based on High Resolution	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02:01G
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**Table 20. Individual laboratory results for DNA # 889 High Resolution**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
124	01:01:01:01	29:02:01:02	08:01:01	45:01:01	06:02:01:03	07:01:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01G	04:02:01G
138	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01	04:02
144	01:01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01G	04:01:01	04:01:01	NT	NT	03:01	03:01:01G	03:01:01	03:02:01	NT	NT	NT	NT
151	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01:01G	04:02:01G
158	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	NT	NT	04:01	04:02
160	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
162	01:01	29:02	08:01	45:01	06:02	07:01:01G	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	03:01	03:03	03:01	03:02	NT	NT	NT	NT
174	01:01	29:02	08:01	45:01	06:02	07:01:01G	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
175	NT	NT	08:01	45:01	NT	NT	04:01	04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
176	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
189	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	03:01	03:01:01G	03:01	03:02	01:03	01:03	04:01	04:02:01G
190	01:01:01:01	29:02:01:01	08:01:01	45:01:01	06:02:01G	07:01:01G	04:01:01	04:01:01	NT	NT	NT	NT	03:01:01:01	03:02:01	NT	NT	NT	NT
193	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:02P
214	NT	NT	08:01	45:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	03:03	NT	NT	NT	NT	NT	NT	NT
239	NT	NT	NT	NT	NT	NT	NT	NT	4*01:03	4*01:03	03:01	NT	NT	03:02	NT	NT	04:01P	04:02P
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	03:01P	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
249	01:01:01	29:02:01	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	4*01:03:01	4*01:03:01	03:01:01	03:03:01	03:01:01	03:02:01	01:03:01	01:03:01	04:01:01	04:02:01
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	01:01	29:01	08:01	45:01	06:02	07:01	04:01	04:01	4*01:01	4*01:01	03:01	03:01	03:02	03:02	NT	NT	NT	NT
273	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	NT	NT	NT	NT
274	01:01	29:02	08:01	45:01P	06:02P	07:01P	04:01	04:01	NT	NT	03:01	03:03	03:01	03:02	NT	NT	NT	NT
275	01:01	29:02	08:01	45:01	NT	NT	04:01	04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
278	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:01	01:03	01:03	04:01	04:02
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
281	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
289	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
307	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	03:01	03:03	03:01	03:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	01:01	29:02	08:01	45:01	06:02:01G	07:01:01G	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	01:01	29:01	08:01	45:01	06:02	07:01	04:01	04:01	NP	NP	03:01	03:01	03:01	03:02	01:03	01:03	04:01	04:02
319	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	01:01:01G	29:02:01G	08:01:01G	45:01:01G	06:02:01G	07:01:01G	04:01	04:01	4*01:01:01G	4*01:01:01G	NT	NT	03:01:01G	03:02:01G	NT	NT	04:01:01G	04:02:01G
702	01:01	29:02	08:01:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	NT	NT	03:01	03:02	01:03	01:03	105:01	126:01
714	01:01P	29:02P	08:01P	45:01P	06:02	07:01P	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
732	01:01:01G	29:02:01G	08:01:01G	45:01:01G	06:02:01G	07:01:01G	04:01:01	04:01:01	4*01:01:01G	4*01:01:01G	NT	NT	03:01:01G	03:02:01G	NT	NT	04:01:01G	04:02:01G
769	01:01	29:02	08:01	45:01	06:02P	07:01	04:01	04:01	4*01:01P	4*01:01P	NT	NT	03:01	03:02	NT	NT	04:01P	04:02P
805	01:01	29:02	08:01	45:01	06:02	07:01:01G	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01:01G	04:02:01G
1498	01:01:01G	29:02	08:01	45:01:01G	06:02:01G	07:01:01G	04:01:01	04:01:01	4*01:03	4*01:03	03:01	03:03	03:01:01	03:02:01	NT	NT	04:01:01	04:02:01
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2063	01:01:01	29:02	08:01:01	45:01:01	06:02:01	07:01:01	04:01:01	04:01:01	NT	NT	NT	NT	03:01:01G	03:02:01G	NT	NT	04:01:01G	04:02:01G
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	01:03	04:01P	04:02P
2518	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
2549	01:01	29:02	08:01	45:01:01G	06:02:01G	07:01:01G	04:01	NT	NT	NT	03:01	03:03	03:01	03:02	01:03	NT	04:01:01G	04:02:01G
2862	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	NT	NT	NT	NT	NT	NT	NT	NT
3261	01:01	29:02	08:01	45:01	06:02	07:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3410	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT

**Table 20. Individual laboratory results for DNA # 889 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
3438	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	NT	NT
3582	01:01	29:02	08:01	45:01:01G	06:02:01G	07:01:01G	04:01	04:01	4*01:01:01G	4*01:01:01G	NT	NT	03:01	03:02	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
3625	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	03:01	03:03	03:01	03:02	NT	NT	04:01	04:02
4237	01:01	29:02	08:01	45:01:01	06:02	07:01	04:01	04:01	4*01:03	NT	03:01P	03:01P	03:01	03:02	NT	NT	NT	NT
4420	01:01	29:02	NT	45:01	06:02	NT	04:01	04:01	NT	NT	03:01	03:03	NT	03:02	NT	NT	NT	NT
4545	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02:01G
4551	01:01:01G	29:02:01G	08:01:01G	45:01	06:02:01G	07:01:01G	04:01	04:01	4*01:03	4*01:03	03:01	NT	03:01	03:02	01:03	NT	04:01	04:02
4582	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	NT	NT	NT	NT	NT	NT	NT
4613	01:01	29:02	08:01	45:01	06:02	07:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	NT	NT	08:01:01	45:01:01	06:02:01:03	07:01:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	04:01	04:01	NT	NT	03:01	NT	03:01	03:02	01:03	NT	04:01:01G	04:02:01G
6313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9222	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	NT	NT	NT	NT	03:01	03:02	NT	NT	04:01	04:02

Final Consensus	01:01	29:02	08:01	45:01	06:02	07:01	04:01	04:01	4*01:03	4*01:03	03:01	03:03	03:01	03:02	01:03	01:03	04:01:01G	04:02:01G
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**Table 21. Individual laboratory results for DNA # 889 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
16	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
134	01	29	08	45	06	07	04	04	4*01	NT	03	03	03	03	NT	NT	04(DP401)	04(DP402)
138	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
142	01	29	08	45	06	07	04	04	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
144	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	01	29	08	45	06	07	04	04	4*01	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
168	01	29	08	45	NT	NT	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
173	01	29	08	45	NT	NT	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
175	01	29	08	45	NT	NT	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
189	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
190	01	29	08	45	06	07	04	04	4*PRESENT 4*PRESENT		NT	NT	03	03	NT	NT	NT	NT
192	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	NT	NT	04(DP401)	04(DP402)
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
199	NT	NT	NT	NT	NT	NT	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
205	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
207	01	29	08	45	06	07	04	04	NT	NT	03	03	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	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
214	NT	NT	08	45	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	03	NT	NT	01	01	NT	NT
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	03	NT	NT	NT	NT	NT	NT
239	01	29	08	45	06	07	04	04	4*PRESENT 4*PRESENT		03	03	03	03	01	01	04(DP401)	04(DP402)
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
250	01	24	08	45	06	07	04	NT	4*PRESENT NT		NT	NT	03	03	NT	NT	NT	NT
252	01	29	08	45	NT	NT	04	16	4*PRESENT 5*PRESENT		NT	NT	03	03	NT	NT	NT	NT
255	01	29	08	45	NT	NT	04	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	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
266	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
267	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	NT	NT	NT	NT
268	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
273	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	NT	NT	NT	NT
274	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
278	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	04(DP401)	04(DP402)
281	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
282	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
285	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
288	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
289	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
290	01	29	08	45	NT	NT	04	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
305	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
307	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
309	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
310	01	36	08	45	01	07	04	07	4*PRESENT 4*PRESENT		NT	NT	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
316	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)



**Table 21. Individual laboratory results for DNA # 889 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
317	01	29	08	45	06	07	04	04	NP	NP	03	03	03	03	01	01	04(DP401)	04(DP401)
318	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)
319	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
401	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
402	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
519	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
714	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
726	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
732	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
805	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	04(DP401)	04(DP402)
1113	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	NT	NT
1189	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	NT	NT	04(DP401)	04(DP402)
1212	01	29	08	45	NT	NT	04	04	4*PRESENT	NT	NT	NT	03	03	NT	NT	NT	NT
1251	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
1647	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	03	03	03	03	01	01	04(DP401)	04(DP402)
2063	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
2347	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	03	03	03	03	01	01	04(DP401)	04(DP402)
2549	01	29	08	45	06	07	04	NT	4*01	NT	03	03	03	03	01	NT	04(DP401)	04(DP402)
2862	01	29	08	45	06	07	04	04	NT	NT	03	NT	03	03	NT	NT	NT	NT
3264	01	29	08	45	06	07	04	04	3*01	3*01	03	03	03	03	NT	NT	04(DP401)	04(DP402)
3325	01	29	08	45	06	07	04	04	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	04(DP401)	04(DP402)
3410	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
3438	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
3582	01	29	08	45	06	07	04	04	4*01	4*01	NT	NT	03	03	NT	NT	NT	NT
3600	01	29	08	45	06	07	04	NT	4*01	NT	03	03	03	03	01	01	NT	NT
3614	01	29	08	NT	06	07	04	04	4*01	4*01	03	NT	NT	NT	NT	NT	NT	NT
3625	01	29	08	45	06	07	04	04	4*01	NT	03	03	03	03	NT	NT	04(DP401)	04(DP402)
3849	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	NT	NT	04(DP401)	04(DP402)
4237	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
4281	01	29	08	45	06	07	04	NT	4*PRESENT	NP	03	NT	03	03	01	NT	04(DP401)	04(DP402)
4420	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
4551	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
4582	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
4585	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
4613	01	29	08	45	06	07	04	04	NT	NT	NT	NT	03	03	NT	NT	NT	NT
4709	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
5451	NT	NT	08	45	06	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	NT	NT
6313	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	NT	NT	NT	NT
9221	01	29	08	45	06	07	04	NT	4*PRESENT	NT	03	NT	03	03	01	NT	04(DP401)	04(DP402)
9222	01	29	08	45	06	07	04	04	NT	NT	03	03	03	03	01	01	04(DP401)	04(DP402)

Final Consensus	01	29	08	45	06	07	04	04	4*01	4*01	03	03	03	03	01	01	04(DP401)	04(DP402)
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**Table 22. Individual laboratory results for DNA # 890 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	3*02:02:01	NP	01:02	01:03	06:02:01	06:03:01	01:03	02:07	19:01:01G	34:01
16	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	3*02:02:01	NP	01:02:01	01:03:01	06:02:01	06:03:01	01:03:01	02:07:01	106:01	34:01
131	03:01:01:01	30:02:01:01	14:02:01	35:01:01:02	04:01:01:01	08:02:01:01	08:06	13:01:01	3*02:02:01:02	NP	01:02:01:03	01:03:01:02	06:02:01	06:03:01	01:03:01:02	NEW	106:01	34:01
134	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	NT	NT	19:01:01G	34:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	03:01:01G	30:02:01G	14:02:01G	35:01:01G	04:01:01G	08:02:01G	08:06	13:01P	3*02:02P	NP	01:02:01G	01:03:01G	06:02P	06:03P	NT	NT	19:01:01G	34:01
188	03:01:01:01	30:02:01:01	14:02:01	35:01	04:01:01:01	08:02:01:01	08:06	13:01	NT	NT	01:02	01:03:01:02	NT	NT	01:03	02:07	19:01P	34:01
192	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	NT	NT	19:01:01G	34:01
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
197	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NT	01:02	01:03	06:02	06:03	01:03	02:07	19:01P	34:01
205	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	3*02:02:01	NP	01:02:01	01:03:01	06:02:01	06:03:01	01:03:01	02:07:01	106:01	34:01
207	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	01:02	01:03	06:02	06:03	NT	NT	19:01:01G	34:01
213	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	01:02	01:03	06:02	06:03	NT	NT	19:01P	34:01
218	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
227	03:01	30:02:01	14:02:01	35:01	04:01	08:02	08:06	13:01:01	3*02:02	NP	NT	NT	06:02	06:03	NT	NT	19:01:01G	34:01
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
258	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	NT	NT	NT	NT	06:02:01	06:03:01	NT	NT	19:01:01G	34:01
264	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	3*02:02:01	NP	01:02:01	01:03:01	06:02:01	06:03:01	01:03:01G	02:07	106:01	34:01
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
519	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	3*02:02	NP	01:02:01	01:03:01	06:02:01	06:03:01	01:03:01	02:07	106:01	34:01
726	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	01:03	02:07	19:01	34:01
1113	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	19:01	34:01
1212	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	03:01:01	30:02:01	14:02:01	35:01:01G	04:01:01G	08:02:01	08:06	13:01:01G	3*02:02	NP	01:02	01:03	06:02:01	06:03:01	01:03	02:02	19:01	34:01
3264	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	3*02:02	NP	01:02:01	01:03:01	06:02:01	06:03:01	NT	NT	19:01:01G	34:01
3614	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	01:03	NT	06:03	NT	NT	19:01:01G	34:01
3849	03:01:01G	30:02:01G	14:02	35:01:01G	04:01:01G	08:02:01G	08:06	13:01:01G	3*02:02:01G	NP	01:02:01G	01:03	06:02:01G	06:03:01G	NT	NT	19:01:01G	34:01
4709	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
45452	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	3*02:02:01	NP	01:02:01	01:03:01	06:02:01	06:03:01	01:03:01	NEW	19:01:01G	34:01

Final Consensus based on High Resolution	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	01:03	02:07	19:01:01G	34:01
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**Table 23. Individual laboratory results for DNA # 890 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
124	03:01:01:01	30:02:01:01	14:02:01	35:01:01:02	04:01:01:01	08:02:01:01	08:06	13:01:01	3*02:02:01	NP	01:02:01	01:03:01	06:02:01	06:03:01	01:03:01	02:07	19:01:01G	34:01
138	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	19:01	34:01
144	03:01:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01G	NT	NT	01:02:01G	01:03	06:02:01	06:03:01	NT	NT	NT	NT
151	03:01	30:02	14:02	35:01	04:01:01G	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	19:01:01G	34:01
158	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	NT	NT	19:01	34:01
160	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
162	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01:01G	NT	NT	NT	NT	06:02:01G	06:03:01G	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	08:06	13:01	NT	NT	01:02	01:03	06:02	06:03	NT	NT	NT	NT
174	03:01	30:02	14:02	35:01	04:01:01G	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
175	03:01	30:02	14:02	35:01	NT	NT	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
176	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
189	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02:01G	01:03	06:02	06:03	01:03	02:02	106:01	34:01
190	03:01:01:01	30:02:01:01	14:02:01	35:01:01:01	04:01:01G	08:02:01:01	08:06	13:01:01	NT	NT	NT	NT	06:02:01	06:03:01	NT	NT	NT	NT
193	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	19:01P	34:01
214	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	01:03	NT	NT	NT	NT	NT	NT
239	NT	NT	NT	NT	NT	NT	NT	13:01	NT	NP	01:02	01:03	06:02	06:03	NT	NT	19:01P	34:01
240	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02P	01:03	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
249	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	3*02:02:01	NP	01:02:01	01:03:01	06:02:01	06:03:01	01:03:01	02:07:01	106:01	34:01
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	NT	NT	NT	NT
273	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	NT	NT	NT	NT
274	03:01P	30:02	14:02	35:01P	04:01P	08:02	08:06	13:01P	NT	NT	01:02	01:03	06:02	06:03	NT	NT	NT	NT
275	03:01	30:02	14:02	35:01	NT	NT	08:06	13:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
278	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NT	01:02	01:03	06:02	06:03	01:03	02:02	106:01	34:01
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	NT	NT	NT	NT	NT	NT	08:06	13:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
281	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
288	NT	NT	NT	NT	NT	NT	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
289	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	NT	NT	06:02	06:03	NT	NT	NT	NT
292	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
307	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	01:02	01:03	06:02	06:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	01:03	NT	NT	NT	NT	NT	NT
313	03:01	30:02	14:02	35:01	04:01:01G	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
316	NT	NT	NT	NT	NT	NT	08:06	13:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
317	03:01	30:02	14:01	35:01	04:01	08:02	08:04	13:01	NP	NP	01:02	01:03	06:02	06:03	01:03	02:02	19:01	34:01
319	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
615	03:01:01G	30:02:01G	14:02:01G	35:01:01G	04:01:01G	08:02:01G	08:06	13:01:01G	3*02:02:01G	NP	NT	NT	06:02:01G	06:03:01G	NT	NT	19:01:01G	34:01
702	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NT	NT	NT	06:02	06:03	01:03	02:07	19:01	34:01
714	03:01	30:02	14:02	35:01P	04:01P	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
732	03:01:01G	30:02:01G	14:02:01G	35:01:01G	04:01:01G	08:02:01G	08:06	13:01:01G	3*02:02:01G	3*02:02:01G	NT	NT	06:02:01G	06:03:01G	NT	NT	19:01:01G	34:01
769	03:01	30:02	14:02	35:01P	04:01	08:02	08:06	13:01	3*02:02:01G	NP	NT	NT	06:02	06:03	NT	NT	19:01P	34:01
805	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	19:01:01G	34:01
1498	03:01:01G	30:02	14:02	35:01:01G	04:01:01G	08:02	08:06	13:01:01	3*02:02:01G	NP	01:02	01:03:01	06:02:01	06:03:01	NT	NT	106:01	34:01
1647	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2063	03:01:01	30:02:01	14:02:01	35:01:01	04:01:01	08:02:01	08:06	13:01:01	NT	NT	NT	NT	06:02:01G	06:03:01G	NT	NT	NT	NT
2347	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:03	02:02	19:01P	34:01
2518	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT
2549	03:01	30:02	14:02	35:01:01G	04:01:01G	08:02	08:06	13:01:01G	NT	NT	01:02	01:03	06:02	06:03	NT	NT	NT	NT
2862	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3261	03:01	30:02	14:02	35:01	04:01	08:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
3410	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	NT	NT

**Table 23. Individual laboratory results for DNA # 890 High Resolution**

CENTER	A		B		C		DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1		
3438	03:01	30:02	14:02	35:01	04:01	NT	08:06	13:01	NT	NT	NT	06:02	06:03	NT	NT	NT	NT	
3582	03:01	30:02	14:02	35:01:01G	04:01:01G	08:02	08:06	13:01:01G	3*02:02:01G	NP	NT	06:02	06:03	NT	NT	19:01:01G	34:01	
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	19:01P	34:01	
3625	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	01:02	01:03	06:02	06:03	NT	NT	106:01	34:01
4237	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NT	01:02	01:03	06:02	06:03	NT	NT	NT	NT
4420	03:01	30:02	14:02	NT	04:01	NT	08:06	13:01	NT	NT	01:02	01:03	06:02	06:03	NT	NT	19:01	34:01
4545	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	01:03	02:02	19:01:01G	34:01
4551	03:01:01G	30:02:01G	14:02:01G	35:01:01G	04:01:01G	08:02:01G	08:06	13:01:01G	3*02:02	NP	NT	NT	06:02	06:03	01:03	NT	19:01	NEW
4582	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	01:03	02:02	19:01:01G	34:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4613	03:01	30:02	14:02	35:01	04:01P	08:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
5451	NT	NT	14:02:01	35:01:01	04:01:01:01	08:02:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	NT	NT	NT	NT	NT	NT	08:06	13:01	NT	NP	NT	NT	06:02	06:03	01:03	NT	19:01	34:01
6313	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
9222	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	NT	NT	NT	NT	06:02	06:03	NT	NT	19:01	34:01

Final Consensus	03:01	30:02	14:02	35:01	04:01	08:02	08:06	13:01	3*02:02	NP	01:02	01:03	06:02	06:03	01:03	02:07	19:01:01G	34:01
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**Table 24. Individual laboratory results for DNA # 890 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
16	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	106	34
134	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	NT	NT	19	34
138	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
142	03	30	14	35	04	08	08	13	3*02	NP	NT	NT	06	06	NT	NT	NT	NT
144	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
168	03	30	14	35	NT	NT	08	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
173	03	30	14	35	NT	NT	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
175	03	30	14	35	NT	NT	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
189	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	106	34
190	03	30	14	35	04	08	08	13	3*PRESENT	NP	NT	NT	06	06	NT	NT	NT	NT
192	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	NT	NT	19	34
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
199	NT	NT	NT	NT	NT	NT	07	13	NT	NT	NT	NT	06	06	NT	NT	NT	NT
205	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	106	34
207	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	19	34
214	NT	NT	14	35	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
226	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
227	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	NT	NT	03	02	NT	NT
234	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01	01	NT	NT	NT	NT	NT	NT
239	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
245	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
250	03	30	14	35	04	08	08	13	3*PRESENT	NP	NT	NT	06	NT	NT	NT	NT	NT
252	03	30	14	35	NT	NT	08	13	3*PRESENT	NP	NT	NT	06	NT	NT	NT	NT	NT
255	03	30	14	35	NT	NT	08	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
266	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	01	02	106	34
267	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	NT	NT	NT	NT
268	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
273	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	NT	NT	NT	NT
274	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
278	03	30	14	35	04	08	08	13	3*02	NT	01	01	06	06	01	02	106	34
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
280	03	30	14	35	04	08	08	13	NT	NT	NT	NT	06	06	NT	NT	19	34
281	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
282	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
285	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
288	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
289	03	30	14	35	04	08	08	13	3*02	NP	NT	NT	06	06	NT	NT	NT	NT
290	03	30	14	35	NT	NT	08	13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
304	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
305	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
307	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
309	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	01	02	19	34
310	03	30	14	35	04	08	08	13	3*PRESENT	NP	NT	NT	06	06	NT	NT	NT	NT
311	03	30	14	35	04	08	08	13	3*PRESENT3*PRESENT		01	01	06	06	NT	NT	NT	NT
316	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	01	02	19	34

**Table 24. Individual laboratory results for DNA # 890 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
317	03	30	14	35	04	08	08	13	NP	NP	01	01	06	06	01	02	19	34
318	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	01	02	19	34
319	03	30	14	35	04	08	08	13	3*PRESENT	NP	NT	NT	06	06	NT	NT	NT	NT
401	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
402	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
519	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	106	34
714	03	30	14	35	04	08	08	13	NT	NT	NT	NT	06	06	NT	NT	NT	NT
726	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
732	03	30	14	35	04	08	08	13	3*02	3*02	01	01	06	06	01	02	106	34
805	03	30	14	35	04	08	08	13	NT	NT	NT	NT	06	06	NT	NT	19	34
1113	03	30	14	35	04	08	08	13	3*02	NT	01	01	06	06	01	02	NT	NT
1189	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	NT	NT	106	34
1212	03	30	14	35	NT	NT	08	13	3*PRESENT	NT	NT	NT	06	06	NT	NT	NT	NT
1251	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
1647	03	30	14	35	04	08	08	13	3*PRESENT	NP	01	01	06	06	01	02	19	34
2063	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	106	34
2347	03	30	14	35	04	08	08	13	3*PRESENT	NP	01	01	06	06	01	02	19	34
2549	03	30	14	35	04	08	08	13	3*02	NT	01	01	06	06	NT	NT	NT	NT
2862	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
3264	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	NT	NT	19	34
3325	03	30	14	35	04	08	08	13	3*PRESENT	NP	01	01	06	06	NT	NT	19	34
3410	03	30	14	35	04	08	08	13	NT	NT	NT	NT	06	06	NT	NT	NT	NT
3438	03	30	14	35	04	08	08	13	NT	NT	NT	NT	06	06	NT	NT	NT	NT
3582	03	30	14	35	04	08	08	13	3*02	NP	NT	NT	06	06	NT	NT	NT	34
3600	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	NT	NT
3614	03	30	14	35	04	08	08	13	3*02	NT	NT	NT	06	NT	01	02	NT	NT
3625	03	30	14	35	04	08	08	13	3*02	NT	01	01	06	06	NT	NT	106	34
3849	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	NT	NT	19	34
4237	03	30	14	35	04	08	08	13	NT	NT	NT	NT	06	06	NT	NT	NT	NT
4281	03	30	14	35	04	08	08	13	3*PRESENT	NP	01	01	06	NT	01	02	106	34
4420	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	19	34
4551	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	NEW
4582	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
4585	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
4613	03	30	14	35	04	08	08	13	NT	NT	NT	NT	06	06	NT	NT	NT	NT
4709	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
5451	NT	NT	14	35	04	08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	NT	NT
6313	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	NT	NT
9221	03	30	14	35	04	08	08	13	3*PRESENT	NT	01	NT	06	06	01	02	19	34
9222	03	30	14	35	04	08	08	13	NT	NT	01	01	06	06	NT	NT	19	34

Final Consensus	03	30	14	35	04	08	08	13	3*02	NP	01	01	06	06	01	02	19	34
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## Participants and Methods

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
	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
16					SSO-OL				
					SSP-OLE				
131	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
134	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL		NGS-GIL
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-GV	SSO-OL	SSO-OL		SSP-GV
138	SBT-OL	SBT-OL	SBT-OL	SBT-OL	SSO-OL	SSO-OL	SBT-OL	SSO-OL	SBT-OL
	SSO-OL	SSO-OL	SSP-OLE	SSO-OL			SSO-OL		SSO-OL
142	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM		
144	SBT-SC	SBT-SC	SBT-SC	SBT-SC		SBT-LUM-OL	SBT-SC		
	SSP-INT	SSP-INT	SSP-INT	SSP-INT		SSO-LUM-OL	SSO-LUM-OL		
147	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	SSP-OLE	SSP-OLE	NGS-GIL		SSP-OLE
148	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB
151	SBT-LT	SBT-LT	SBT-LT	SBT-LT			SBT-LT		SBT-LT
	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		SSO-OL
158	SSO-LUM-OL	SSO-LUM-OL		SSO-LUM-OL	SSP-OLE	SSO-OLE	SSO-LUM-OL		SSP-OLE
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE	SSP-OLE		
160	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL	SBT-GIL		SBT-GIL		
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL		
162	SBT-BS	SBT-BS	SBT-BS	SBT-BS			SBT-BS		
168	SSO-WAK	SSO-WAK		SSO-WAK					
173	SSO-LUM-OL	SSO-LUM-OL		SSO-LUM-OL		SSO-LUM-OL	SSO-LUM-OL		
174	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSP-INV			
175	SSO-LUM	SSO-LUM		SBT-INV		SSO-LUM	SBT-INV		
	SSP-LT-OLE	SSP-INV-OLE		SSO-LUM			SSO-LUM		
176	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		NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SBT-ACT		SBT-ACT	SSO-OL	SBT-ACT
189	SBT-LT	SBT-LT	SBT-LT	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
	SSO-OL	SSO-OL	SSP-LT-OLE				SSP-OLE		SSP-LT-OLE
190	SBT-SC	SBT-SC	SBT-SC	SBT-SC	SSP-OLE		SBT-SC		
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
192	NGS-INH	NGS-INH	NGS-INH	NGS-INH	SSP-OLE	SSP-OLE	NGS-INH		NGS-INH
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		SSP-OLE
193	SBT-SC	SBT-SC	SBT-SC	SBT-SC			SBT-SC		
	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL			SSO-LUM-OL		
195	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	SSO-OL	NGS-OL	SSO-OL	NGS-OL
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-LB	SSO-OL	SSP-LB	SSO-OL
	SSP-LB-OLE	SSP-LB-OLE	SSP-LB	SSP-LB-OLE			SSP-LB-OLE		SSP-LB-OLE
197	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD
				SSO-OL					SSO-OL
199				SSP-OL			SSP-OL		

### Participants and Methods

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
205	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
207	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-INT-OLE	NGS-OMX	NGS-OMX	SSP-INT	NGS-OMX
	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		SSO-OL
	SSP-INT-OLE	SSP-INT-OLE	SSP-INT-OLE	SSP-INT-OLE		SSP-INT	SSP-INT-OLE		SSP-INT-OLE
209	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-BR-OLE	SSO-OL	SSO-OL		SSO-OL
	SSP-BR-OLE	SSP-BR-OLE	SSP-BR-OLE	SSP-BR-OLE		SSP-OLE	SSP-BR-OLE		SSP-OLE
213	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	NGS-OMX	NGS-OMX		NGS-OMX
	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSP-OLE	SSO-OL		SSP-OLE
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
218	NGS-INH	NGS-INH	NGS-INH	NGS-INH			NGS-INH		
	SBT-INH	SBT-INH	SBT-INH	SBT-INH			SBT-INH		
	SSP-INH	SSP-INH	SSP-INH	SSP-INH			SSP-INH		
226	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
227	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	SSO-OL	NGS-OL	SSO-OL	NGS-OL
	Other-Others	SBT-SC	Other-Others	SBT-SC			SBT-SC		SBT-SC
	SBT-SC	SSO-OL	SBT-SC	SSO-OL			SSO-OL		SSO-OL
234	SSO-OL	SSO-OL	SSO-OL						
	NGS-GD	NGS-GD	NGS-GD	NGS-GD	SSO-OL	SSO-OL	NGS-GD		SSO-OL
	SBT-PRO	SBT-PRO	SBT-PRO	SBT-PRO	SSP-INV-LB	SSP-INV-LB	SSO-OL		SSP-INV-LB
	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSP-INV-LB		
238						SSP-OLE			
239	SSP-LB	SSP-LB-OL	SSP-LB	SSP-LB-OL	SSP-LB-OL	SSP-LB-OL	SSP-LB-OL	SSP-LB-OL	SSP-LB-OL
240						SSO-OL			
242	SSP-OL-OLE	SSP-OLE	SSP-OLE	SSP-OL-OLE	SSP-OLE	SSP-OLE	SSP-OLE		
245	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
249	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU	SBT-BWU
250	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE
252	SSP-OLE	SSP-OLE		SSP-OLE	SSP-OLE		SSP-OLE		
255	SSO-OL	SSO-OL		SSO-OL					
258	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
262	SSP-BR-OL-OLE-PRO	SSP-OLE-PRO	SSP-OLE-PRO	SSP-OL-OLE-PRO	SSP-PRO		SSP-PRO		
264	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
265	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSO-OL	SSO-OL	SSP-OL	SSO-OL	SSO-OL
266	SSO-OL	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		
273	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG-OLE-PRO	SSO-BAG	SSO-BAG		
	SSP-BAG-OLE-PRO	SSP-BAG-OLE-PRO	SSP-BAG-OLE-PRO	SSP-BAG-OLE-PRO	SSP-BAG-OLE-PRO	SSP-OLE	SSP-BAG-OLE-PRO		
274	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
	SSP-OL	SSP-OL	SSP-OL	SSP-OL		SSP-OL	SSP-OL		
275	SBT-ACT	SBT-ACT		SBT-ACT					
278	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL
279	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-LB-OLE	SSO-OL	SSO-OL	SSO-OL	SSO-OL
	SSP-LB-OLE	SSP-LB-OLE	SSP-LB-OLE	SSP-LB-OLE		SSP-LB-OLE	SSP-LB-OLE	SSP-LB	SSP-LB-OLE
280	SBT-SC	SBT-SC	SBT-SC	SBT-SC			SSP-INT		SSP-OL-OLE
	SSP-INT	SSP-INT	SSP-INT	SSP-INT					



### Participants and Methods

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
281	SBT-LT-SC SSO-OL	SBT-LT-SC SSO-OL	SBT-LT-SC SSO-OL SSP-OLE	SBT-LT-SC SSO-OL	SSO-OL	SSO-OL	SBT-LT-SC SSO-OL	SSO-OL SSP-OLE	SBT-LT-SC SSO-OL
282	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
285	SSO-LC SSP-OL			SSO-LC SSP-OL					
288	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG SSP-OLE		SSO-BAG	SSO-BAG SSP-OLE		
289	SSO-LUM SSP-OL-OLE	SSO-LUM SSP-OL-OLE	SSO-LUM SSP-OL	SSO-LUM SSP-OL	SSP-OL		SSO-LUM SSP-OL		
290	SSO-LC	SSO-LC		SSO-LC					
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
294	NGS-OMX SBT-INH SSO-OL SSP-OLE	NGS-OMX SBT-INH SSO-OL SSP-OLE	NGS-OMX SBT-INH SSO-OL SSP-OLE	NGS-OMX SBT-INH SSO-OL SSP-OLE	SBT-INH SSP-OLE	NGS-OMX SSO-OL	NGS-OMX SSO-OL SSP-OLE		NGS-OMX SSP-OLE
304	SSO-GTI	SSO-GTI	SSO-GTI	SSO-GTI		SSO-GTI	SSO-GTI		
305	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
307	SSO-LC SSP-INV-OL	SSO-LC SSP-INV-OL	SSO-LC SSP-INV-OL	SSO-LC SSP-INV-OL		SSO-LC SSP-INV-OL	SSO-LC SSP-INV-OL		
309	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
310	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG	SSP-TBG		SSP-TBG		
311	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
313	SBT-INV	SBT-INV	SBT-INV	SBT-INV			SBT-INV		
316	SSO-OL	SSO-OL	SSO-OL	SBT-OL SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
317	SSO-LUM SSP-INV	SSO-LUM SSP-INV	SSO-LUM SSP-INV	SSO-LUM SSP-INV	SSP-INV	SSO-LUM	SSO-LUM SSP-INV	SSO-LUM	SSO-LUM SSP-INV
318	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
319	SBT-TBG SSP-TBG	SBT-TBG SSP-TBG	SBT-TBG SSP-TBG	SBT-TBG SSP-TBG	SSP-TBG		SBT-TBG SSP-TBG		
401	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
402	SSO-OL	SSO-OL	SSO-OL	SBT-GP SSO-OL		SSO-OL	SBT-GP SSO-OL		
519	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
615	SBT-CG	SBT-CG	SBT-CG	SBT-CG	SBT-CG		SBT-CG		SBT-CG
702	SBT-GIL-INH SSO-LB-OL-OLE	SBT-GIL-INH SSO-LB-OL-OLE	SBT-GIL-INH SSO-GIL-INH-LB-OL-OLE	SBT-GIL-INH SSO-LB-OL	SSO-OLE SSP-OLE		SBT-GIL-INH SSO-GIL-LB-OL	SBT-INH SSO-OL	SBT-GIL-INH SSO-LB-OL SSP-LB
714	SBT-GIL SSO-LUM-OL	SBT-GIL SSO-LUM-OL	SBT-GIL SSO-LUM-OL	SBT-SC SSO-LUM-OL			SBT-SC SSO-LUM-OL		
726	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL	NGS-GIL SSO-OL
732	SBT-CG SSO-OL	SBT-CG SSO-OL	SBT-CG SSO-OL	SBT-CG SSO-OL	SBT-CG SSO-OL	SSO-OL	SBT-CG SSO-OL	SBT-OL SSO-OL	SBT-CG SSO-OL
769	SBT-GD SSO-OL	SBT-GD SSO-OL	SBT-CG-GD SSO-OL	SBT-CG SSO-OL	SBT-CG SSO-OL		SBT-CG SSO-OL		SBT-CG SSO-OL SSP-OLE
805	SBT-GD-OL SSO-IMM-OL SSP-OL	SBT-GD-OL SSO-IMM-OL	SBT-GD-OL SSO-IMM-OL SSP-OL	SBT-GD-OL SSO-IMM			SBT-OL SSO-IMM SSP-OL		SBT-OL SSO-IMM

### Participants and Methods

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
1113	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-LB-OLE	NGS-OMX	NGS-OMX	SSP-LB	NGS-OMX
	SSO-LUM	SSP-LB	SSP-LB	SSO-LUM		SSP-LB	SSP-LB		SSO-LUM
	SSP-LB			SSP-LB					SSP-LB-OLE
1189	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SBT-SC	SBT-SC		SBT-SC
			SSP-INV			SSO-OL	SSO-OL		SSO-OL
1212	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	NGS-OMX	NGS-OMX		NGS-OMX
	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		SSP-OLE
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
1251	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	SSP-OLE	SSO-LUM	NGS-GIL	SSO-LUM	SSO-LUM
	SBT-PRO	SBT-PRO	SBT-PRO	SBT-PRO		SSP-OLE	SBT-PRO		SSP-OLE
	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM			SSO-LUM		
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
1498	SBT-INH	SBT-INH	SBT-INH	SBT-CG	SBT-INV SSP-INV	SSP-INV	SBT-CG		SBT-CG
1647	SBT-OL	SBT-OL	SBT-OL	SBT-OL	SSP-LB	SSP-LB	SBT-OL	SSP-LB	SBT-OL
	SSP-LB	SSP-LB	SSP-LB	SSP-LB			SSP-LB		SSP-LB-OL
2063	HR-MELTING	HR-MELTING	HR-MELTING	HR-MELTING	HR-MELTING	HR-MELTING	HR-MELTING	HR-MELTING	Other-Others
	SBT-INH	SBT-INH	SBT-INH	SBT-INH	SSP-INV		SSP-INV		SSO-LUM
2347	SBT-SC	SBT-SC	SBT-SC	SBT-SC	SSO-OL	SSO-OL	SBT-SC	SSO-OL	SBT-SC
	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		SSO-OL-SC
2518	SBT-SC	SBT-SC	SBT-SC	SBT-SC			SBT-SC		
		SSO-OL	SSP-OLE	SSO-OL			SSO-OL		
2549	SBT-OLE	SBT-OLE	SBT-OLE	SBT-OLE	SSO-OL	SSO-OL	SBT-OLE	SSO-OL	SSO-OL
	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSP-OLE	SSO-OL		
	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE					
3261	SBT-GD	SBT-GD	SBT-GD						
			SSP-LT						
3264	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSO-OL	NGS-OMX	NGS-OMX	SSO-OL	NGS-OMX
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSP-LB-OLE	SSO-OL	SSO-OL	SSP-LB	SSO-OL
	SSP-LB	SSP-LB	SSP-LB	SSP-LB		SSP-LB	SSP-LB		SSP-LB
3325	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE
3410	SBT-ACT	SBT-ACT	SBT-ACT	SBT-ACT			SBT-ACT		
	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		
	SSP-GV-UNI	SSP-GV-UNI	SSP-GV-UNI	SSP-GV-UNI			SSP-GV-UNI		
3438	SBT-INV-TBG	SBT-INV-TBG	SBT-INV-TBG	SBT-INV-TBG			SBT-INV-TBG		
3582	SBT-CG	SBT-CG	SBT-CG	SBT-CG	SBT-CG		SBT-CG		SBT-CG
3600	NGS-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB	SSP-LB-OL	SSP-LB-OL
	SSP-LB								
3614	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
3625	SSP-OL	SSP-OL	SSP-OL	SSP-OL			SSP-OL	SSP-OL	SSP-OL
	SBT-INH	SBT-INH	SBT-INH	SBT-INH	SSO-IMM	SBT-INH	SBT-INH		SBT-INH
	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM		SSO-IMM	SSO-IMM		SSO-IMM
3849	SSP-INH		SSP-INH						SSP-INH
	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	SSO-LUM	NGS-INH		NGS-INH
	SBT-INH	SBT-INH-INV	SBT-INH			SSP-LT	SSO-LUM		
	SSO-INH	SSO-INH	SSO-INH						

### Participants and Methods

Center	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
4237	SBT-RO-TBG SSO-OL	SBT-RO-TBG SSO-OL SSP-OLE	SBT-RO-TBG SSO-OL SSP-OLE	SBT-TBG SSO-OL SSP-OLE	SSP-OLE	SSO-OL SSP-OL-OLE	SSO-OL SSP-OLE		
4281	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSP-OL
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK
4545	SBT-SC SSO-OL	SBT-SC SSO-OL SSP-OLE	SBT-SC SSO-OL SSP-OLE	SBT-SC SSO-OL SSP-OLE	SSO-OL SSP-OLE	SSO-OL SSP-OLE	SBT-SC SSO-OL	SSO-OL SSP-OLE	SBT-SC SSO-OL
4551	SBT-PRO SSO-OL SSP-LB-OLE	SBT-PRO SSO-OL SSP-LB-OLE	SBT-PRO SSO-OL SSP-LB-OLE	SBT-PRO SSO-OL SSP-LB-OLE	SSP-LB-OLE	SSO-OL SSP-LB	SSO-OL SSP-LB-OLE	SSO-OL	SSO-OL SSP-LB-OLE
4582	SSO-OL SSP-OLE	SSO-OL SSP-LT	SSO-OL SSP-LT-OL-OLE	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL-OLE	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-LT-OL-OLE
4585	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
4613	SBT-GD SSO-OL SSP-OLE	SBT-GD SSO-OL SSP-OLE	SBT-GD SSO-OL SSP-OLE				SSO-OL		
4709	NGS-OMX SSO-OL SSP-LB-OLE	NGS-OMX SSO-OL SSP-LB-OLE	NGS-OMX SSO-OL SSP-LB-OLE	NGS-OMX SSO-OL SSP-LB-OLE	SSP-LB-OLE	NGS-OMX SSO-OL SSP-LB-OLE	NGS-OMX SSO-OL SSP-LB-OLE	SSO-OL SSP-LB	NGS-OMX SSO-OL SSP-LB-OLE
5451		SBT-INH SSO-LUM	SBT-INH SSO-LUM						
6051	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SBT-CG SSO-OL
6313	SBT-INV-PRO SSO-IMM	SBT-INV-PRO SSO-IMM	SBT-INV-PRO SSO-IMM	SBT-INV-PRO SSO-IMM		SSO-IMM	SBT-INV-PRO SSO-IMM		
9221	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB	SSO-OL SSP-LB
9222	SBT-SC SSO-LUM	SBT-SC SSO-LUM	SBT-SC SSO-LUM	SBT-SC SSO-LUM		SSO-LUM	SBT-SC SSO-LUM	SSO-LUM	SBT-SC SSO-LUM
45452	NGS-LT	NGS-LT	NGS-LT	NGS-LT	NGS-LT	NGS-LT SSP-OLE	NGS-LT	NGS-LT	NGS-LT SBT-SC