

# UCLA INTERNATIONAL HLA DNA EXCHANGE—121ST SUMMARY



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DNA Sample

#747	#750
#748	#751
#749	#752

## DNA #747 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*02:01-A\*02:06-B\*07:02-B\*40:02-C\*03:08-C\*07:02-DRB1\*04:11-DRB1\*15:01-DRB4\*01:03-DRB5\*01:01-DQA1\*01:02-DQA1\*03:01-DQB1\*03:02-DQB1\*06:02-DPB1\*04:01-DPB1\*04:02-DPA1\*01:03.

This sample was previously sent in Exchange #25 as DNA #171 (1997). In 2007, C\*03:04 was detected by 82%. In this present retyping, C\*03:08 was detected by 96% of labs reporting at high resolution. C\*03:08 was assigned in 1998. C\*03:08 differs from C\*03:04 in exon 2 at codon 66 by a single nucleotide substitution (AAG -> AAC), resulting in an amino acid change from lysine to asparagine. According to the NMDP Bioinformatics website, the rare C\*03:08-B\*40:02 association in this sample is observed exclusively in Hispanics, with HF=0.00025.

The results for DNA #747 are summarized in Table 1 and individual laboratory results are listed in Table 7.

## DNA #748 BLACK

The consensus type for this Black donor is A\*01:01-A\*02:01-B\*35:01-B\*37:01-C\*04:01-C\*06:02-DRB1\*10:01-DRB\*15:03-DRB5\*01:01-DQA1\*01:02-DQA1\*01:05-DQB1\*05:01-DQB1\*06:02-DPB1\*02:01-DPB1\*13:01-DPA1\*01:03-DPA1\*02:01.

This sample was previously sent in Exchange #29 as DNA #193 (1998). In 1998, DQA1\*01:04 was assigned by 50%. In this present retyping, DQA1\*01:05 was assigned by 83% by labs reporting at high resolution. DQA1\*01:05 differs from DQA1\*01:04 in exon 4 at codon 199 by a single nucleotide substitution (ACC -> GCC), resulting in an amino acid change from threonine to alanine.

The results for DNA #748 are summarized in Table 2 and individual laboratory results are listed in Table 8.

## DNA #749 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A\*02:05-B\*50:01-C\*06:02-DRB1\*07:01-DRB4\*01:03-DQA1\*02:01-DQB1\*02:02-DPB1\*04:02-DPA1\*01:03. The A\*02:05-B\*50:01-DRB1\*07:01 association in this cell is observed in Caucasians, with HF=0.00296.

The results for DNA #749 are summarized in Table 3 and individual laboratory results are listed in Table 9.

**DNA Sample**

#747	#750
#748	#751
#749	#752

**DNA #750 HISPANIC**

The consensus type for this sample from a Hispanic donor is A\*31:01-A\*33:03-B\*40:02-B\*58:01-C\*03:02-C\*03:04-DRB1\*11:01-DRB1\*13:02-DRB3\*02:02-DRB3\*03:01-DQA1\*01:02-DQA1\*05:05-DQB1\*03:01-DQB1\*06:09-DPB1\*02:01-DPB1\*05:01-DPA1\*01:03-DPA1\*02:02.

The results for DNA #750 are summarized in Table 4 and individual laboratory results are listed in Table 10.

**DNA #751 ASIAN**

The consensus type for this sample from an Asian donor is A\*02:07-A\*33:03-B\*46:01-B\*58:01-C\*01:02-C\*03:02-DRB1\*03:01-DRB1\*04:05-DRB3\*02:02-DRB4\*01:03-DQA1\*03:03-DQA1\*05:01-DQB1\*02:01-DQB1\*04:01-DPB1\*01:01-DPB1\*04:02-DPA1\*01:03-DPA1\*02:02.

The likely associations in this cell, A\*02:07-B\*46:01-DRB1\*04:05 and A\*33:03-B\*58:01-DRB1\*03:01, are observed exclusively in Asians, with respective frequencies of HF=0.00253 and HF=0.02335.

The results for DNA #751 are summarized in Table 5 and individual laboratory results are listed in Table 11.

**DNA #752 CAUCASIAN**

The consensus type for this sample from a Caucasian donor is A\*01:01-A\*24:02-B\*08:01-B\*40:01-C\*03:04-C\*07:01-DRB1\*03:01-DRB1\*12:01-DRB3\*01:01-DRB3\*02:02-DQA1\*05:01-DQA1\*05:05-DQB1\*02:01-DQB1\*03:01-DPB1\*02:01-DPB1\*04:01-DPA1\*01:03.

Low consensus was achieved for DQA1\*05:05 in which only 71% of the labs reporting at high resolution detected this allele. Seven labs were unable to resolve DQA1\*05:05 from either DQA1\*05:01 or DQA1\*05:11.

The results for DNA #752 are summarized in Table 6 and individual laboratory results are listed in Table 12.