



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

DNA #1080 HISPANIC

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

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

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

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

DNA #1081 ASIAN

The consensus type for this sample from an Asian donor is A*02:03-A*11:01-B*15:27-B*55:02-C*01:02-C*04:01-DRB1*04:06-DRB1*09:01-DRB4*01:03-DQA1*03:01-DQA1*03:02-DQB1*03:02-DQB1*03:03-DPA1*02:02-DPB1*05:01.

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

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

DNA #1082 HISPANIC

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

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

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

ACKNOWLEDGMENTS:

The UCLA Immunogenetics Center would like to express our deepest thanks to One Legacy and all organ and tissue donors and their families for giving the gift of knowledge by their generous donation to the education and advancement of the study of HLA. We would also like to thank the NMDP Bioinformatics website (<https://bioinformatics.bethematchclinical.org>), the continued submission of NGS results, and the 3 participants reporting their HLA-E, -F, -G, -H , and MICB data (See Tables 25-30).

