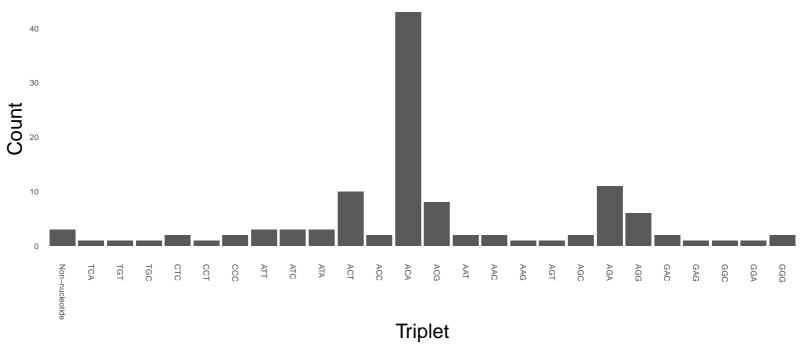
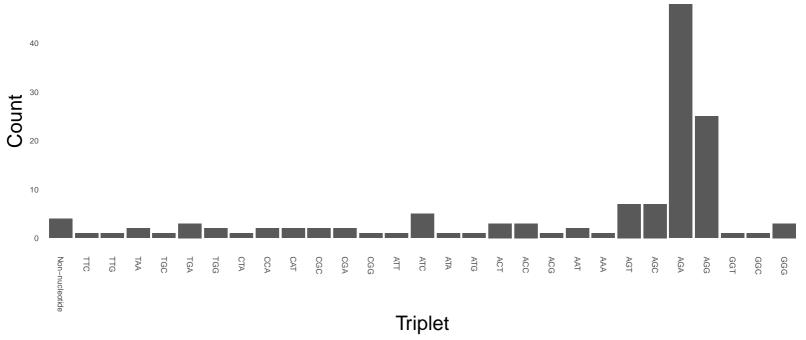


IGHV4-39*01_A220G- Final 3 nucleotides as a triplet

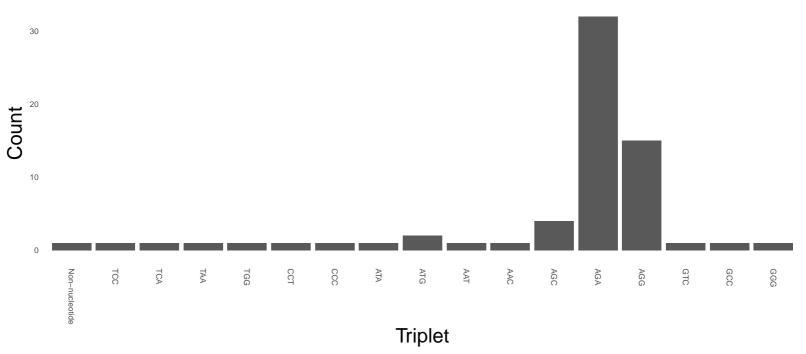


IGHV1-69*01_G54A- Final 3 nucleotides as a triplet

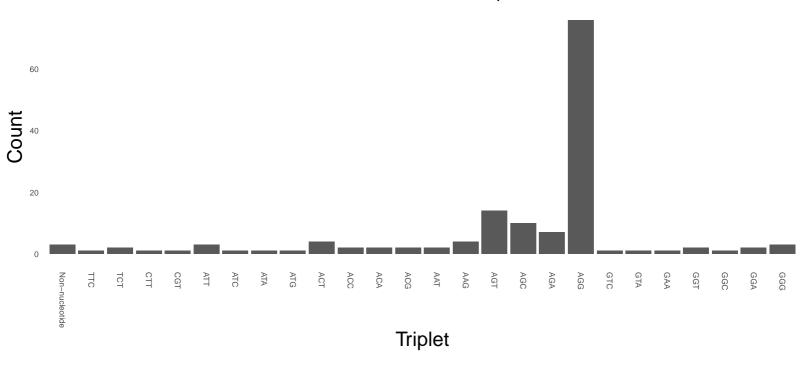
50

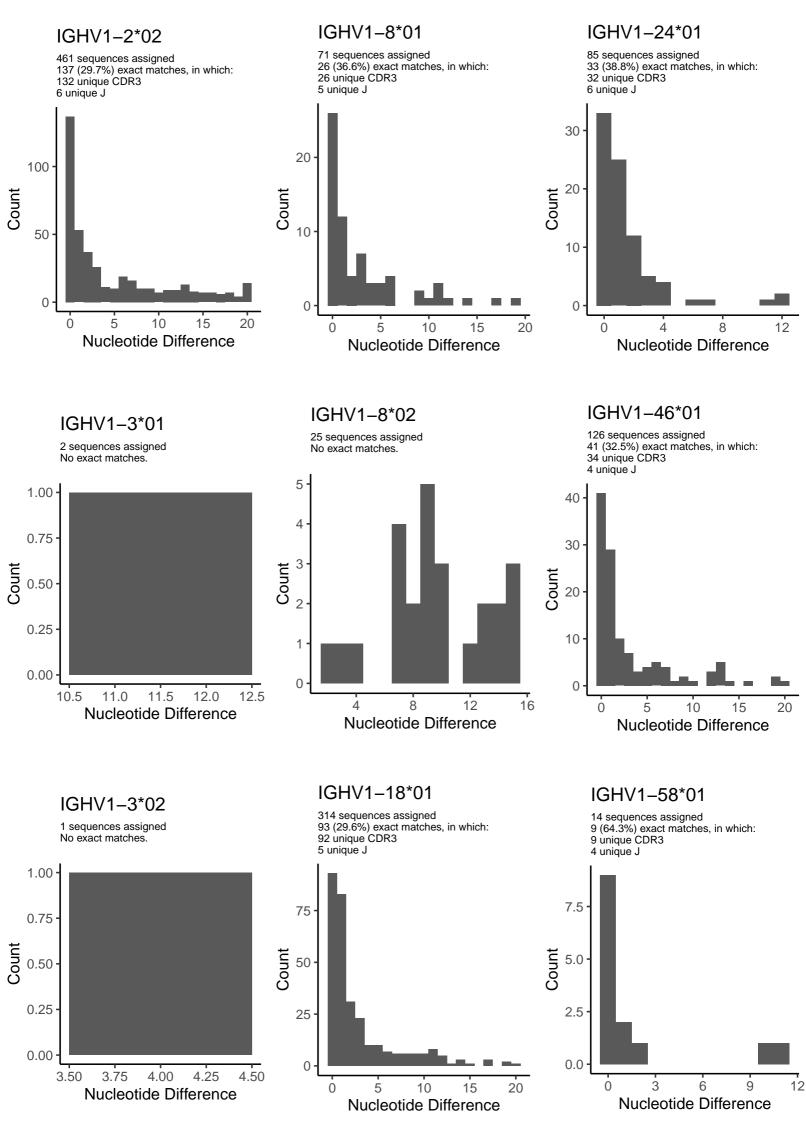


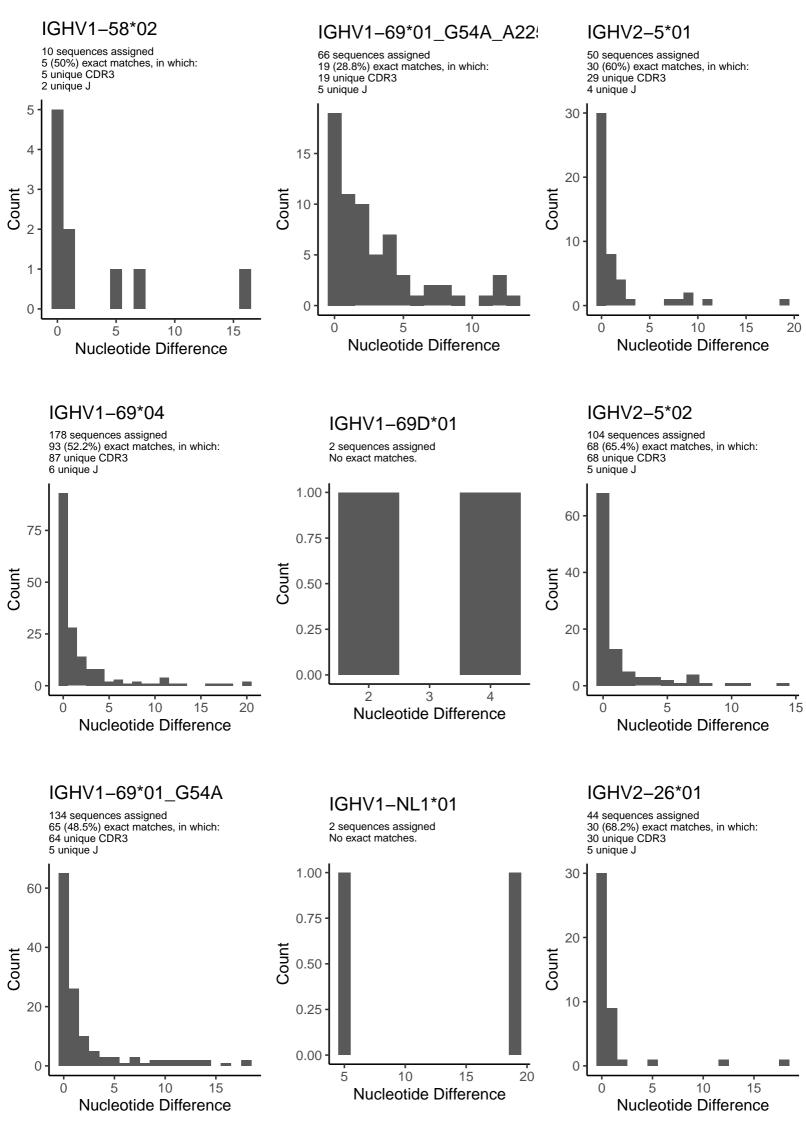
IGHV1-69*01_G54A_A225G- Final 3 nucleotides as a triplet

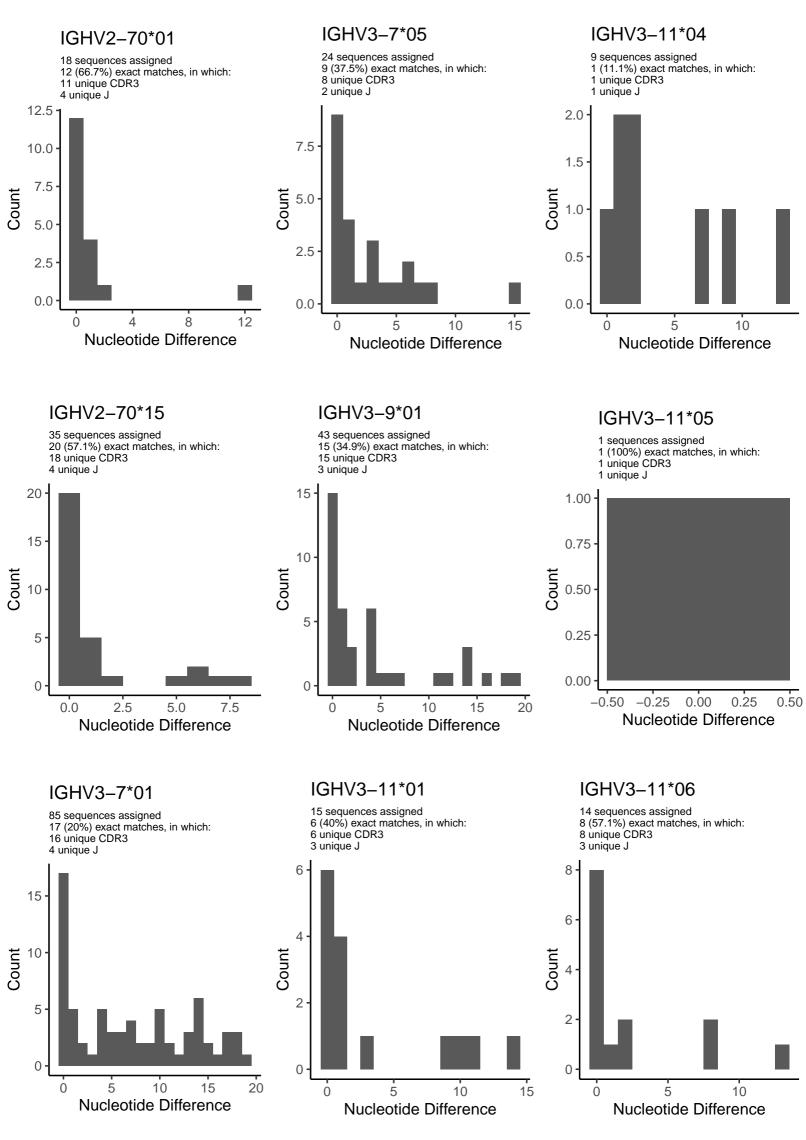


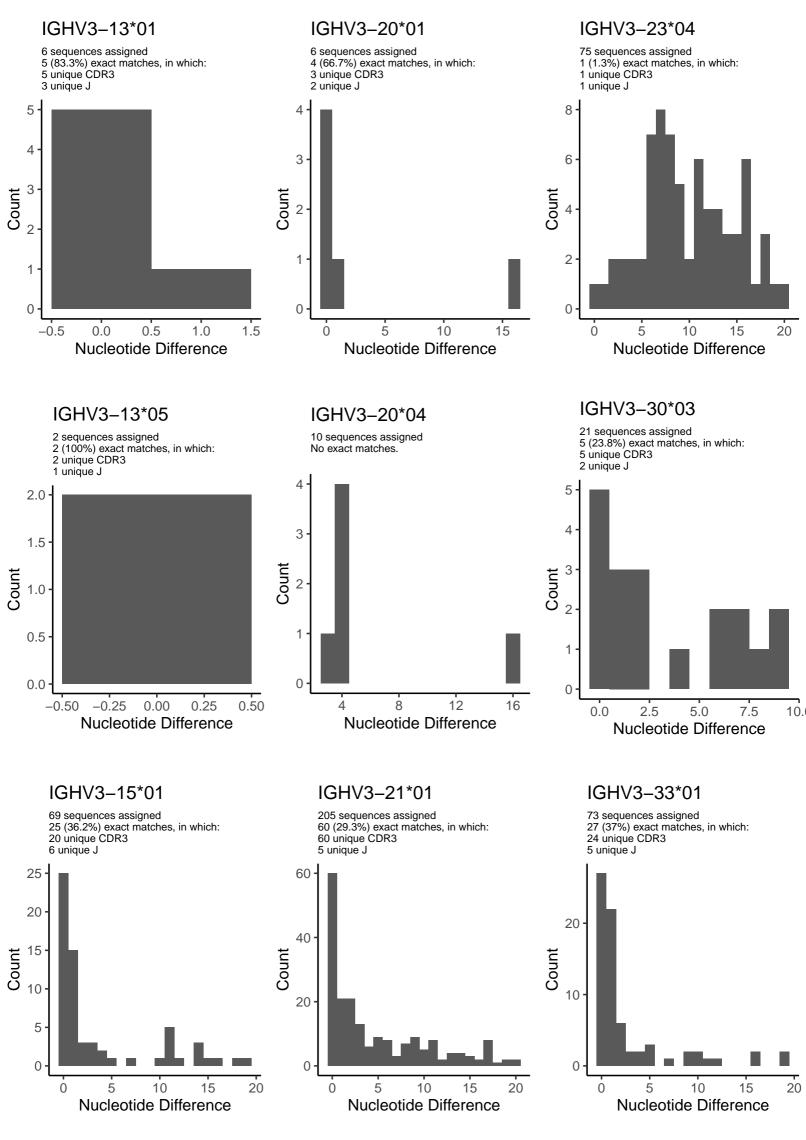
IGHV4-34*01_A220G_A225G- Final 3 nucleotides as a triplet

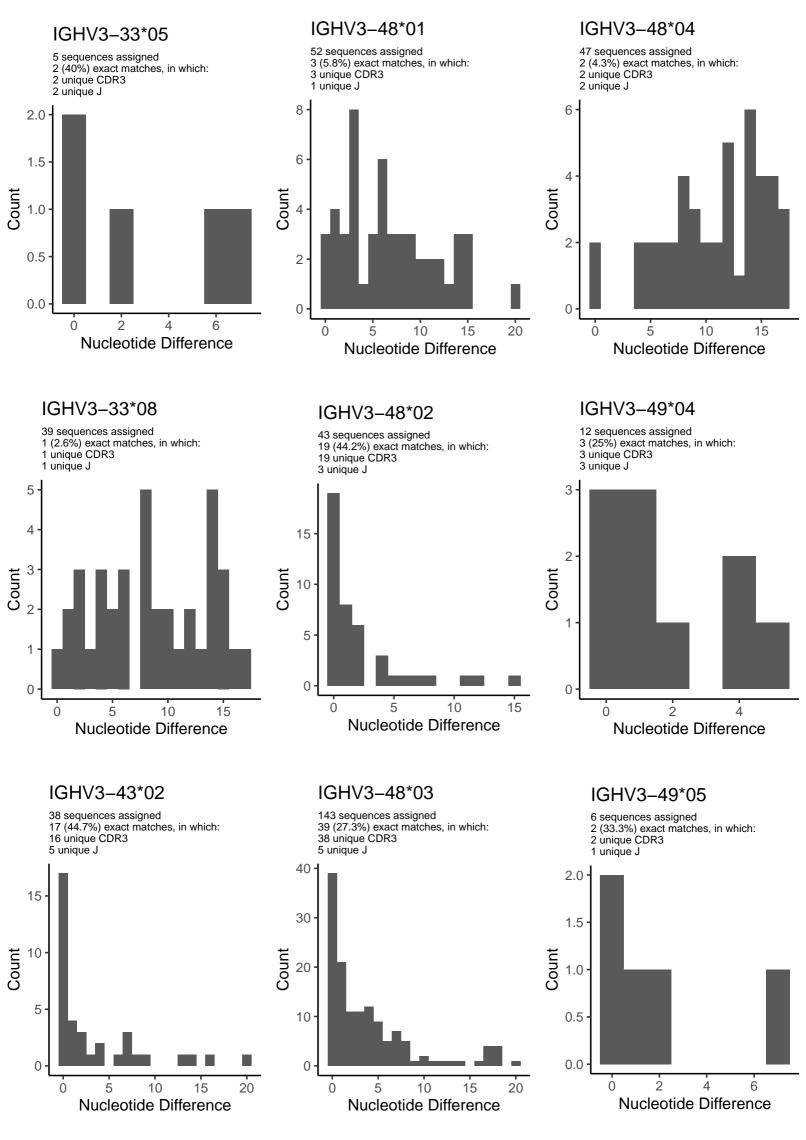


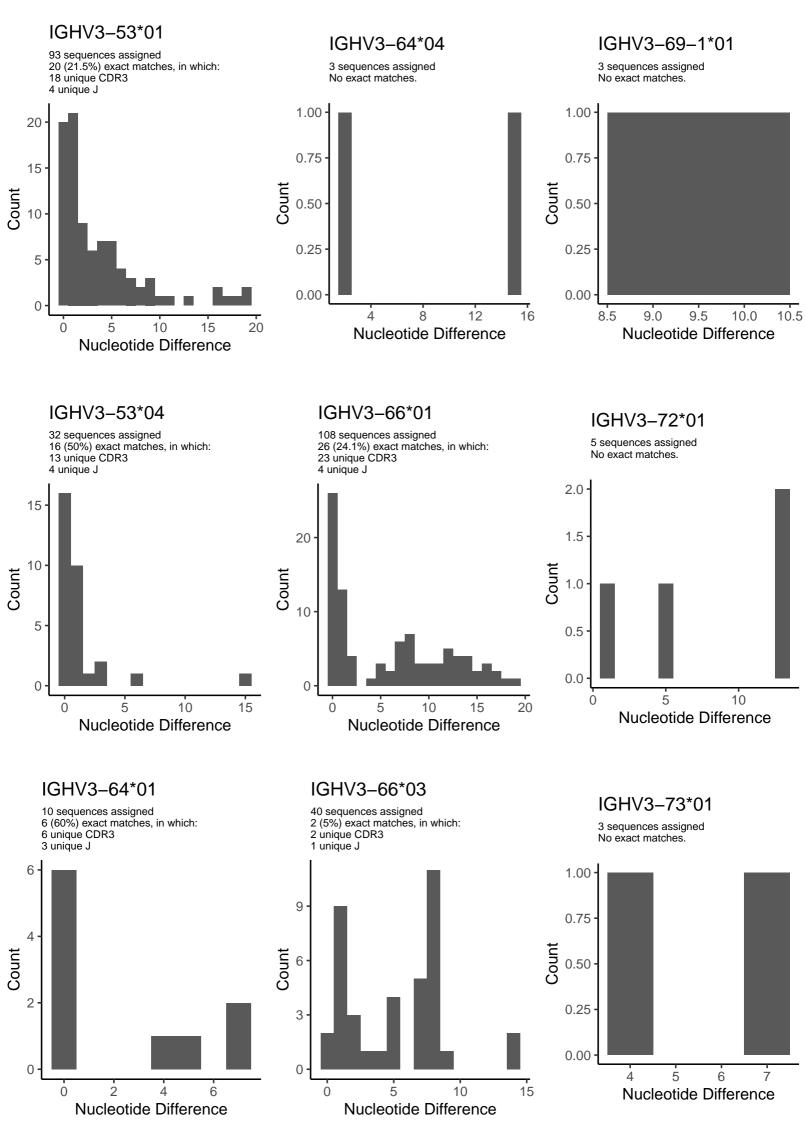


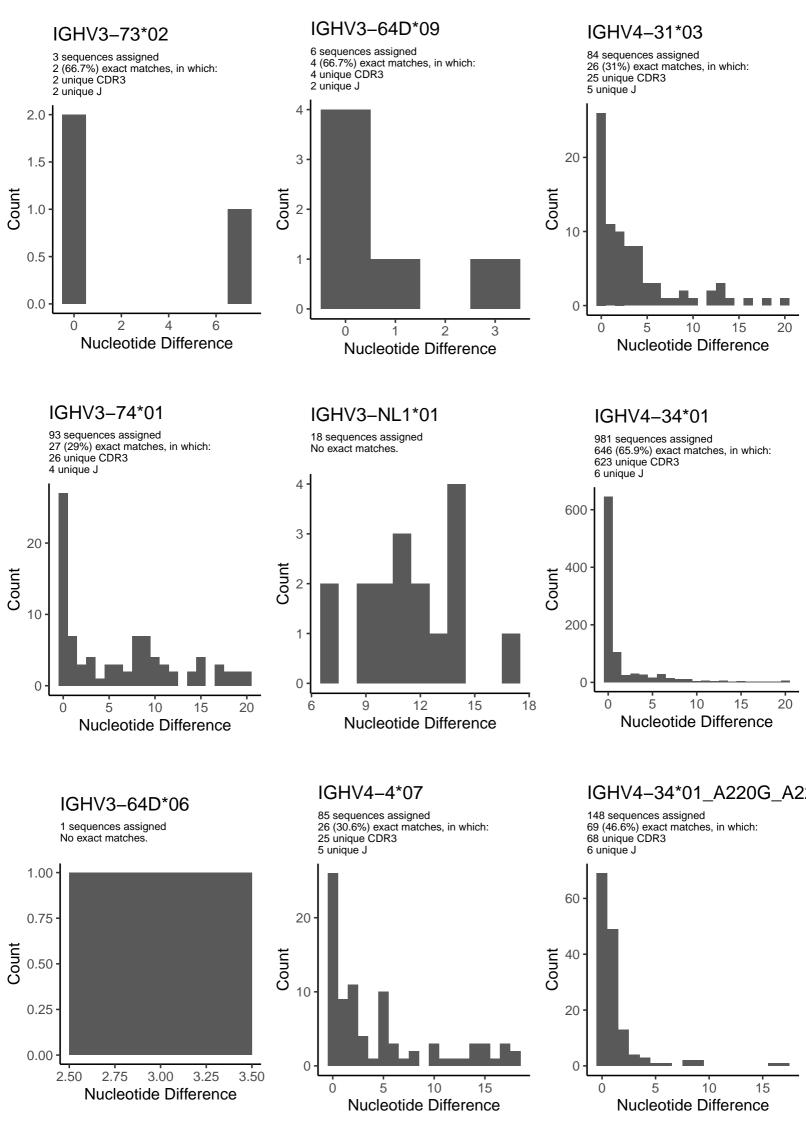


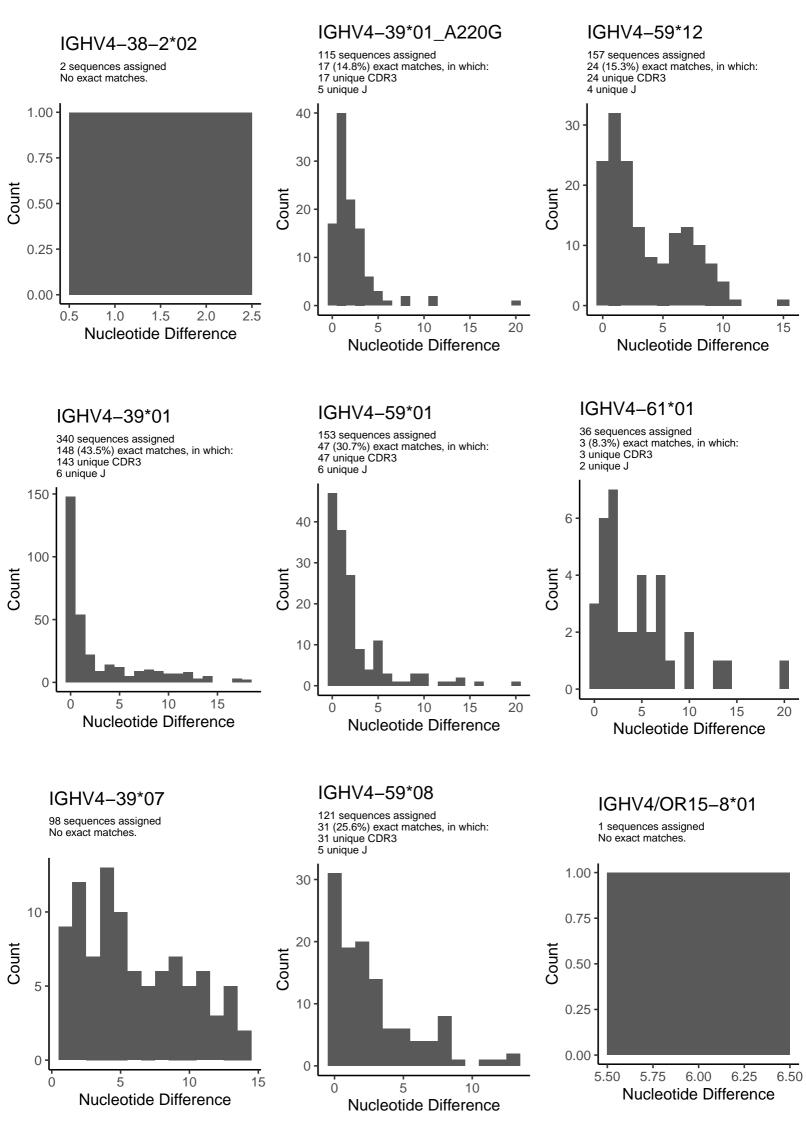






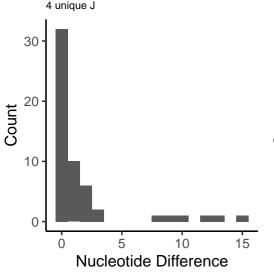






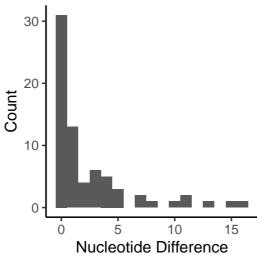
IGHV5-10-1*03

56 sequences assigned 32 (57.1%) exact matches, in which: 31 unique CDR3 4 unique J



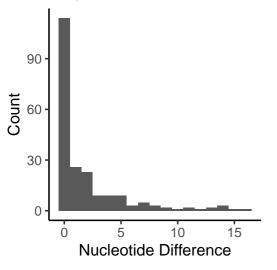
IGHV7-4-1*02

73 sequences assigned 31 (42.5%) exact matches, in which: 30 unique CDR3 5 unique J



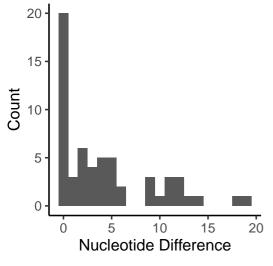
IGHV5-51*01

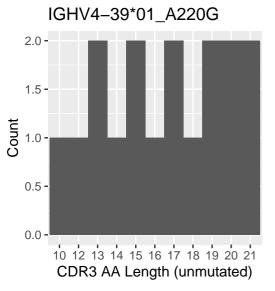
216 sequences assigned 114 (52.8%) exact matches, in which: 106 unique CDR3 6 unique J

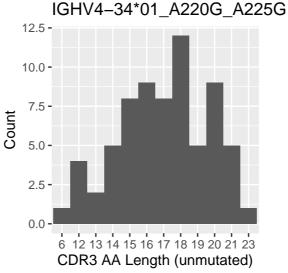


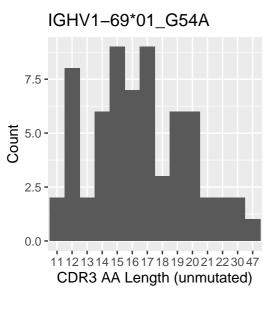
IGHV6-1*01

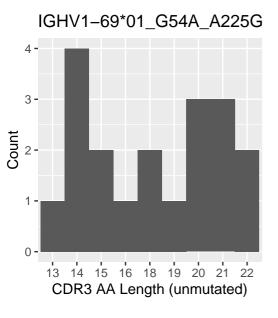
61 sequences assigned 20 (32.8%) exact matches, in which: 20 unique CDR3 5 unique J













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