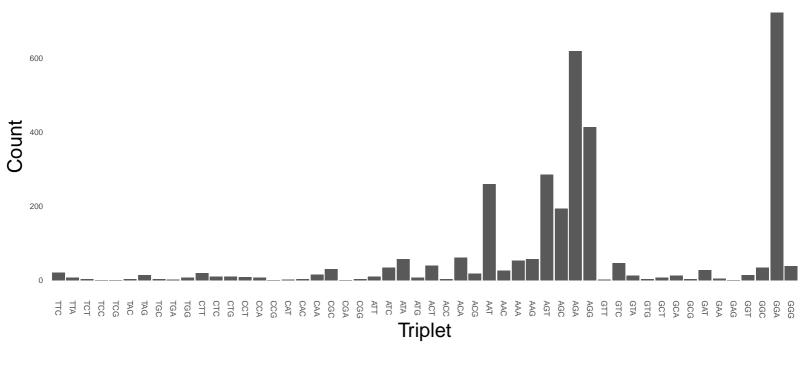
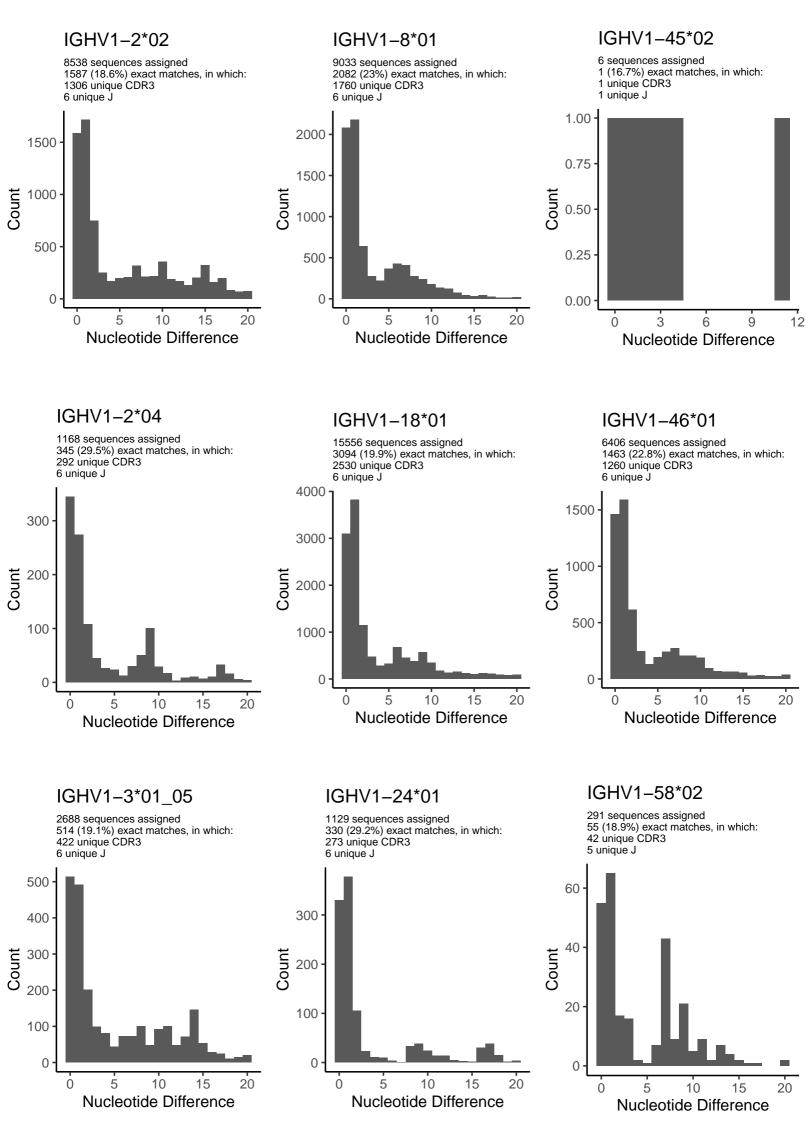
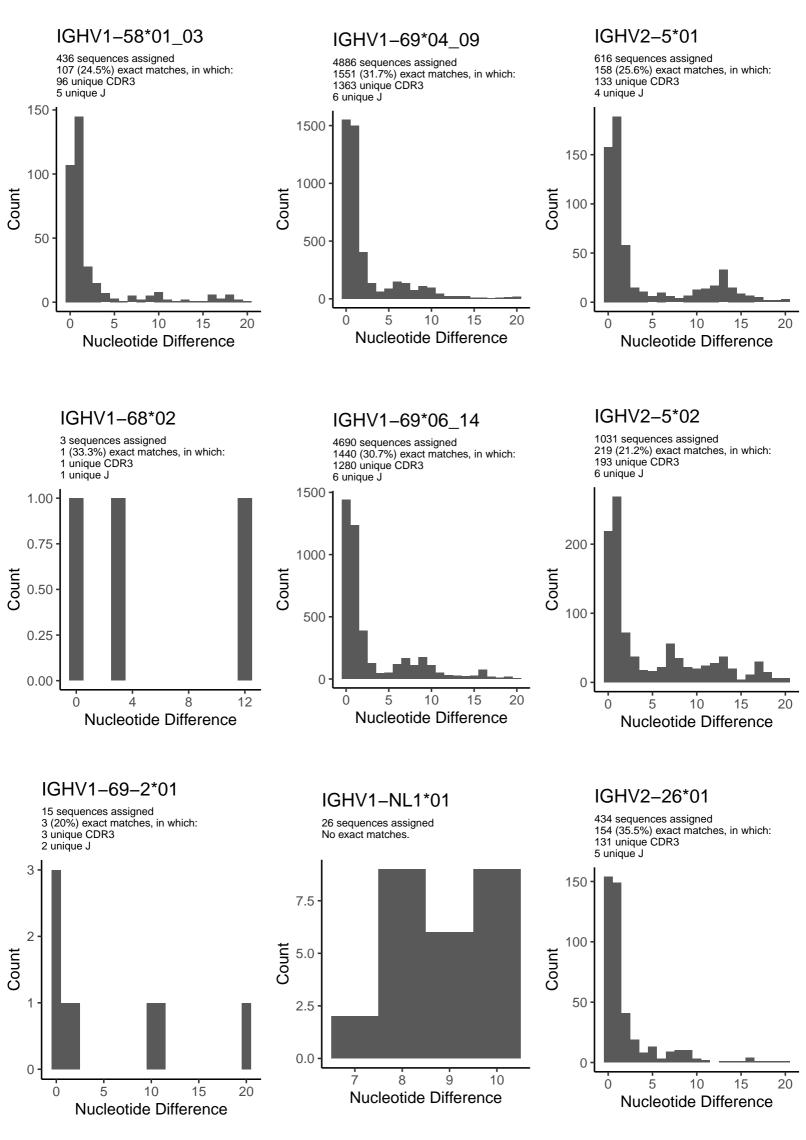


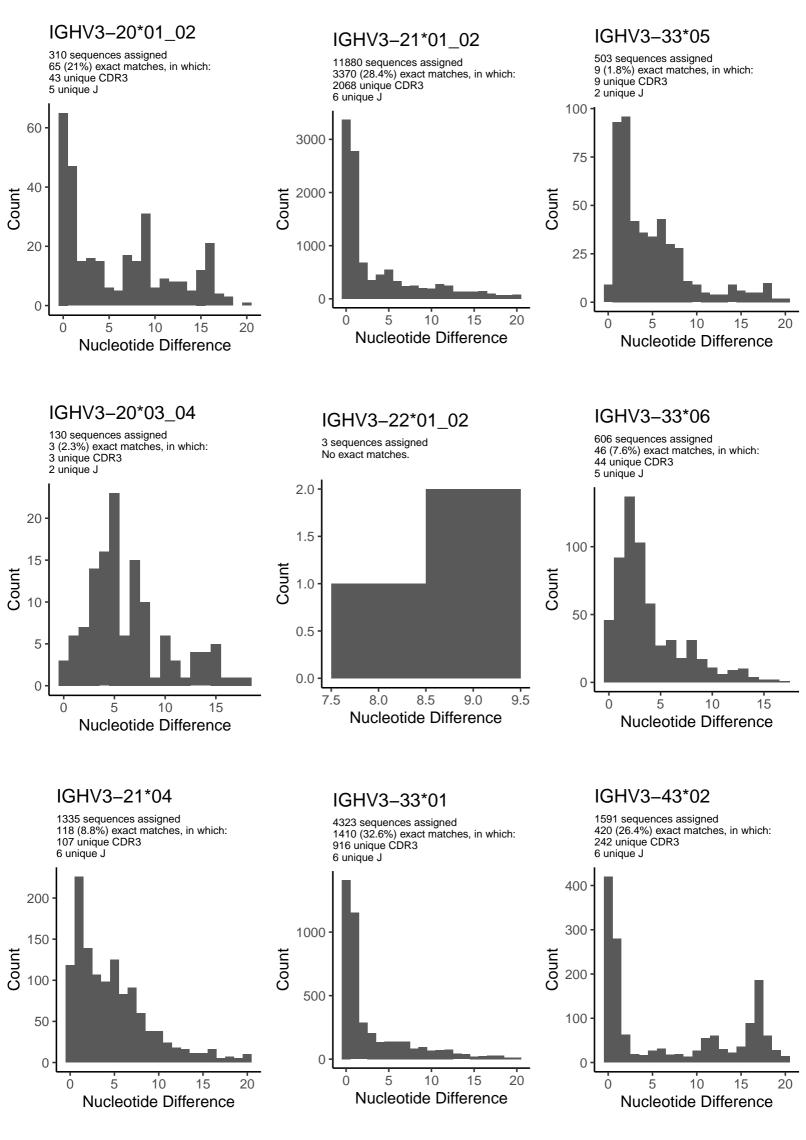
IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

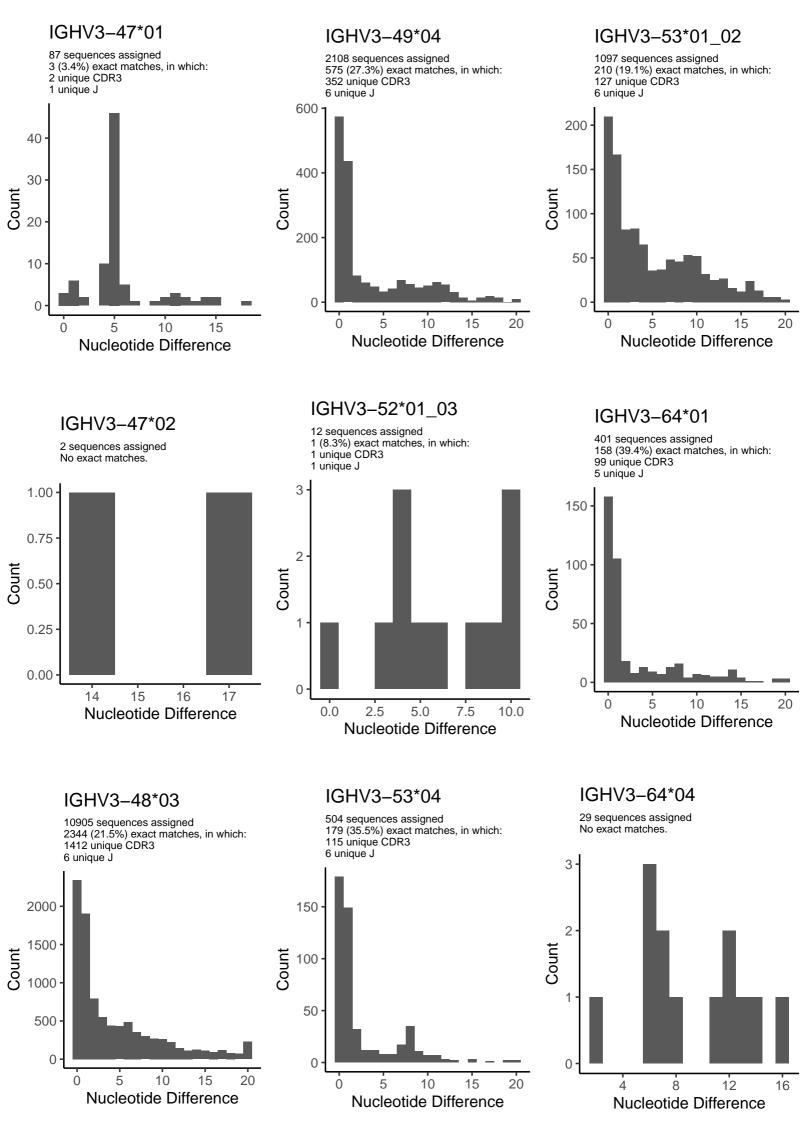


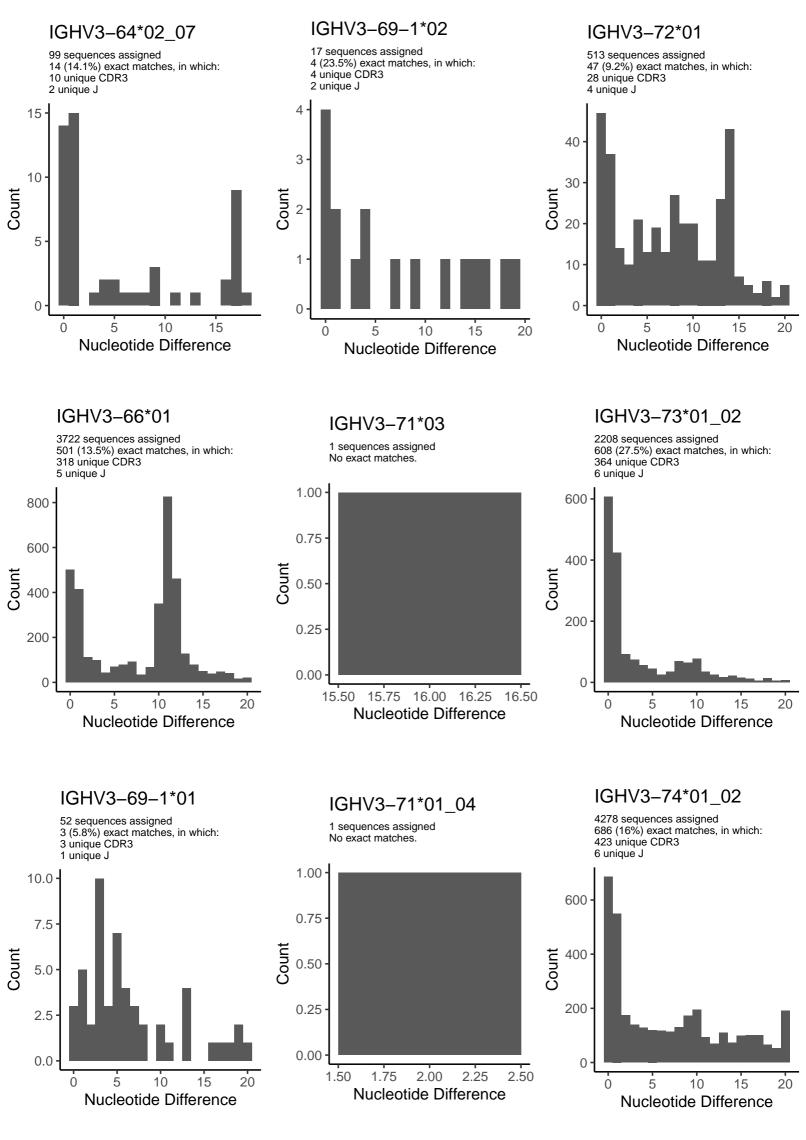


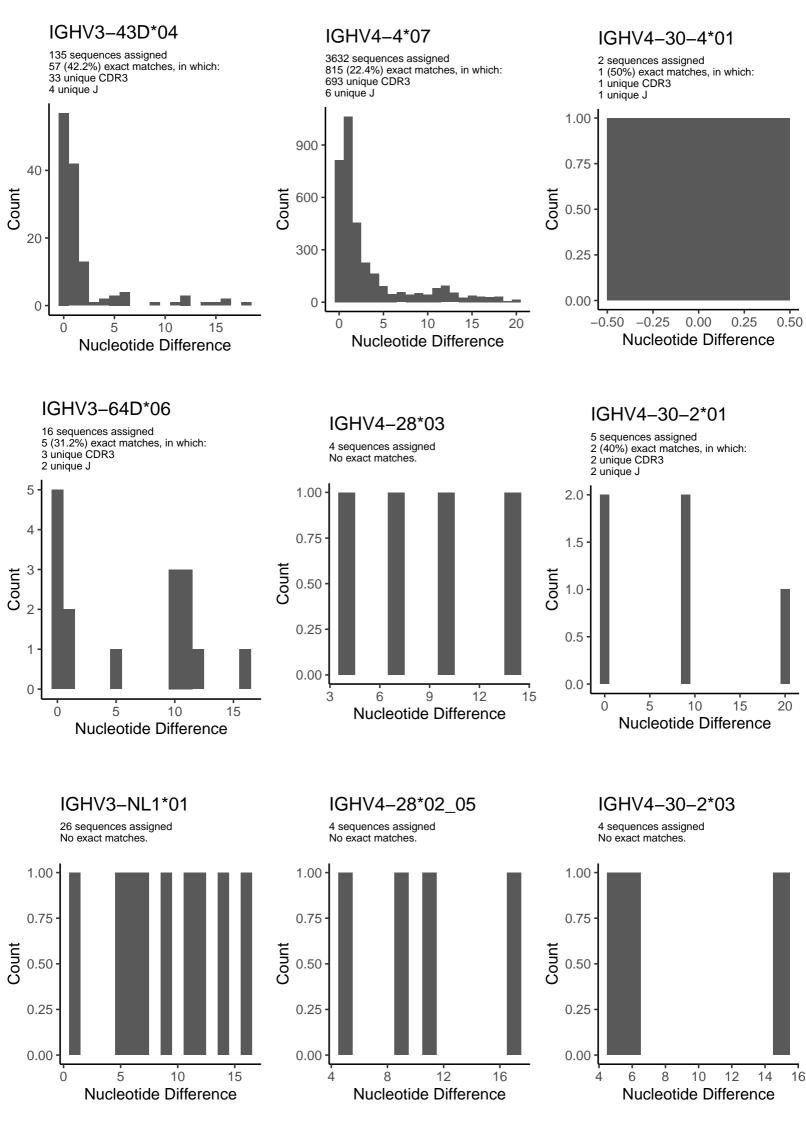


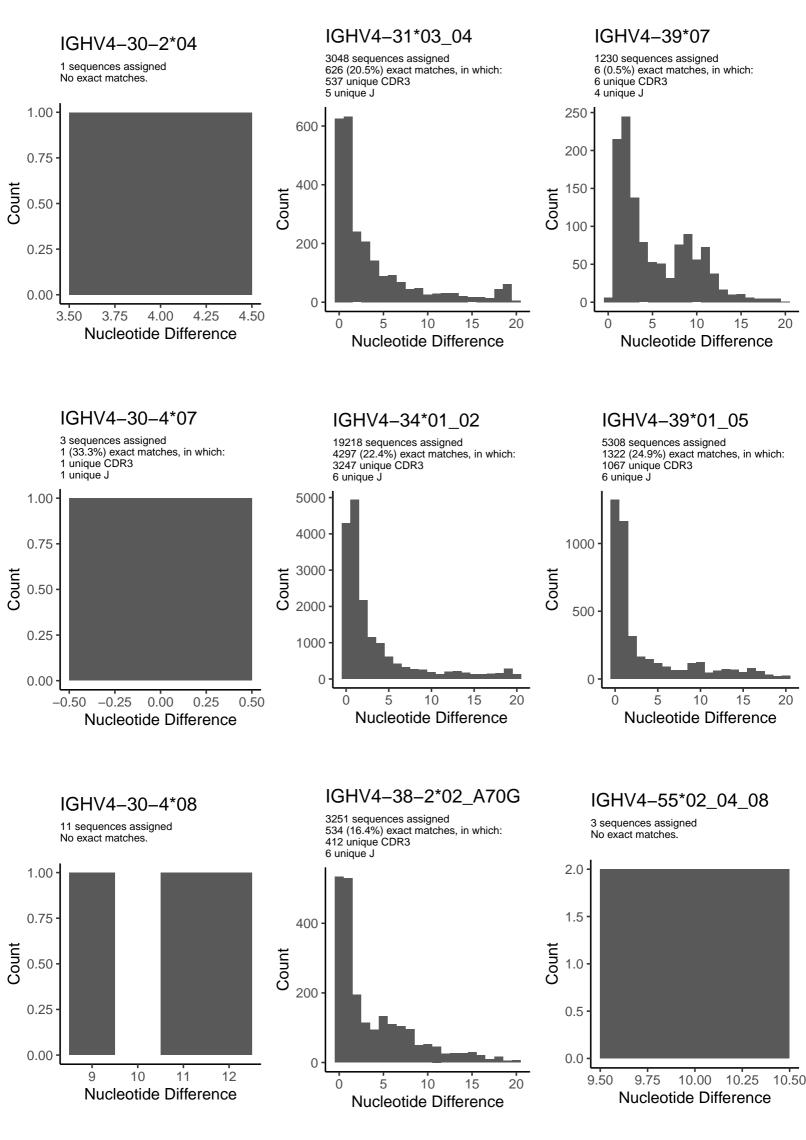
IGHV2-70*01 IGHV3-13*01 IGHV3-9*01 421 sequences assigned 108 (25.7%) exact matches, in which: 897 sequences assigned 7606 sequences assigned 1843 (24.2%) exact matches, in which: 269 (30%) exact matches, in which: 178 unique CDR3 83 unique CDR3 1071 unique CDR3 4 unique J 5 unique J 6 unique J 150 1500 200 100 Count Count 1000 100 50 500 0 0 0 10 15 20 5 10 15 20 10 15 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-70*11_15 IGHV3-11*01 IGHV3-15*01_02 409 sequences assigned 117 (28.6%) exact matches, in which: 3612 sequences assigned 1155 (32%) exact matches, in which: 5188 sequences assigned 1342 (25.9%) exact matches, in which: 95 unique CDR3 855 unique CDR3 696 unique CDR3 4 unique J 6 unique J 6 unique J 1200 100 900 1000 Count Count 600 50 500 300 0 0 10 20 0 10 0 10 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-19*01 IGHV3-11*04 IGHV3-7*01 12 sequences assigned 1060 sequences assigned 11095 sequences assigned 6 (50%) exact matches, in which: 145 (13.7%) exact matches, in which: 1645 (14.8%) exact matches, in which: 5 unique CDR3 142 unique CDR3 1089 unique CDR3 2 unique J 5 unique J 6 unique J 1500 200 1000 Count Count 100 2 500 0 0 0 10 15 20 10 15 20 2 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

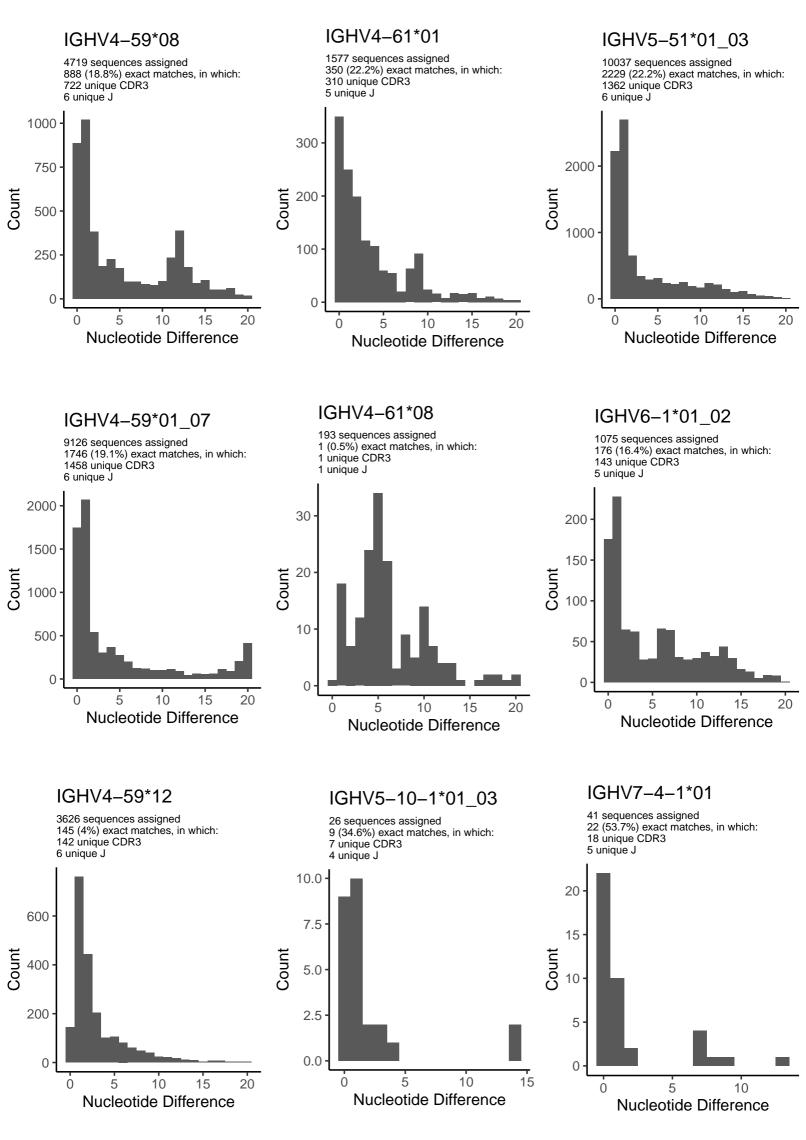














Novel sequence(s) IGHV1-69*01_12_13_G238A IGHV3-48*03_T303G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored.