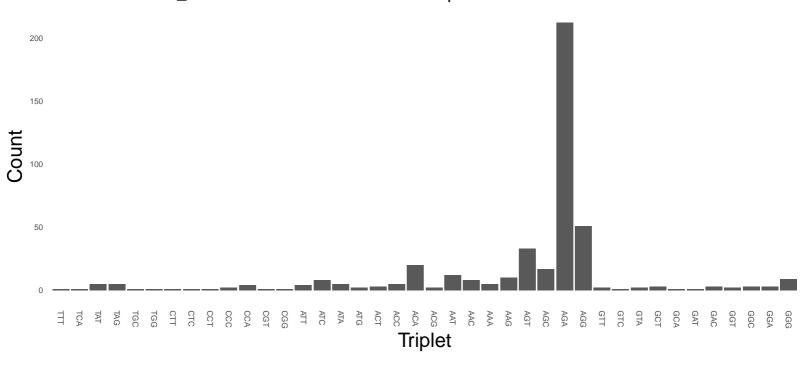
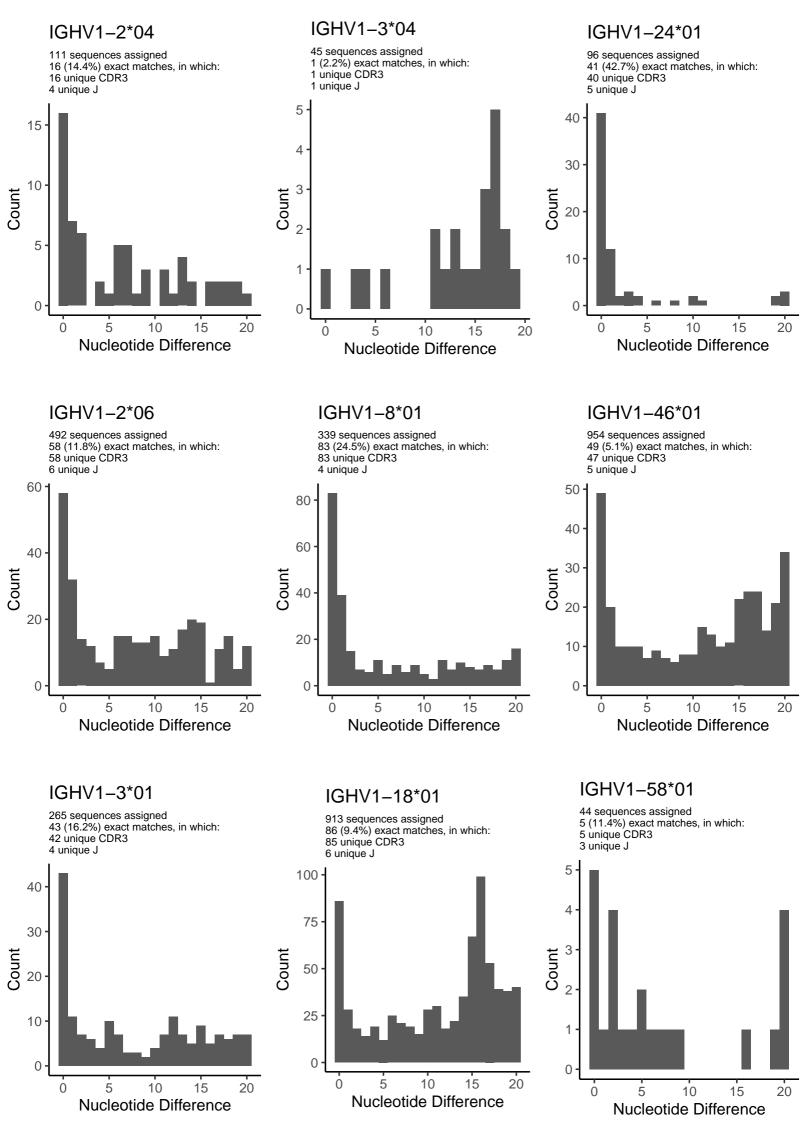
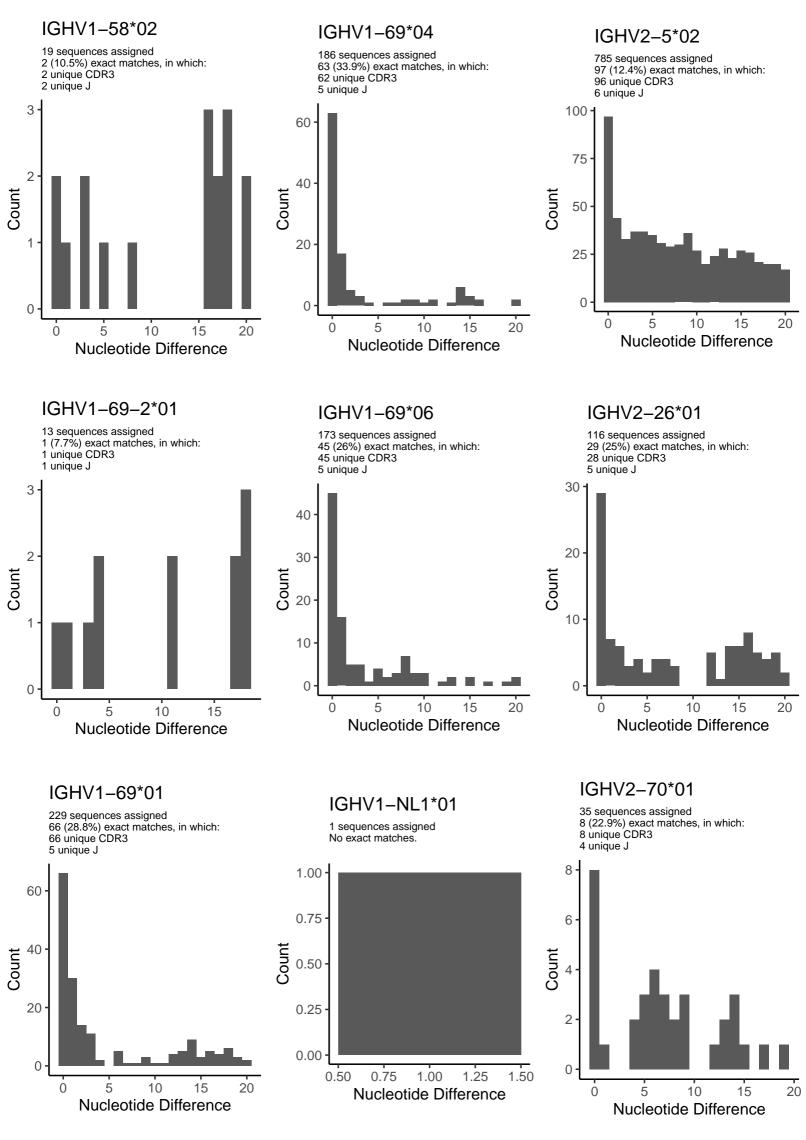


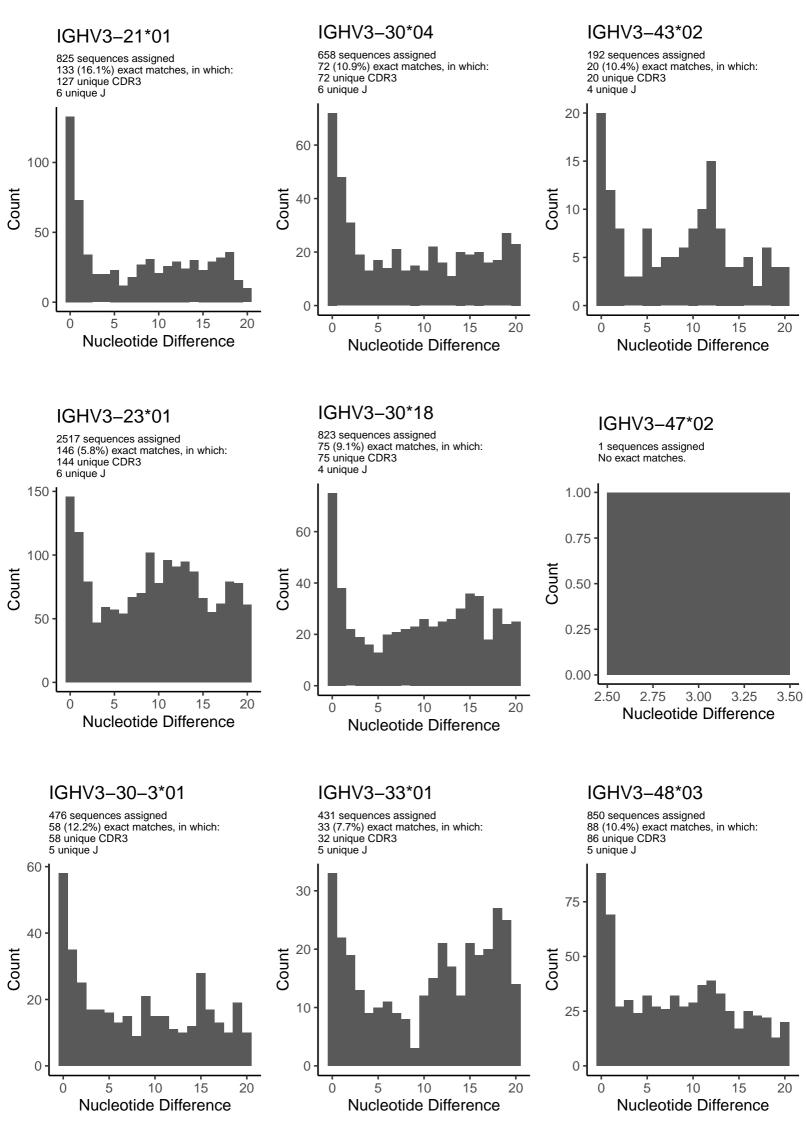
IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

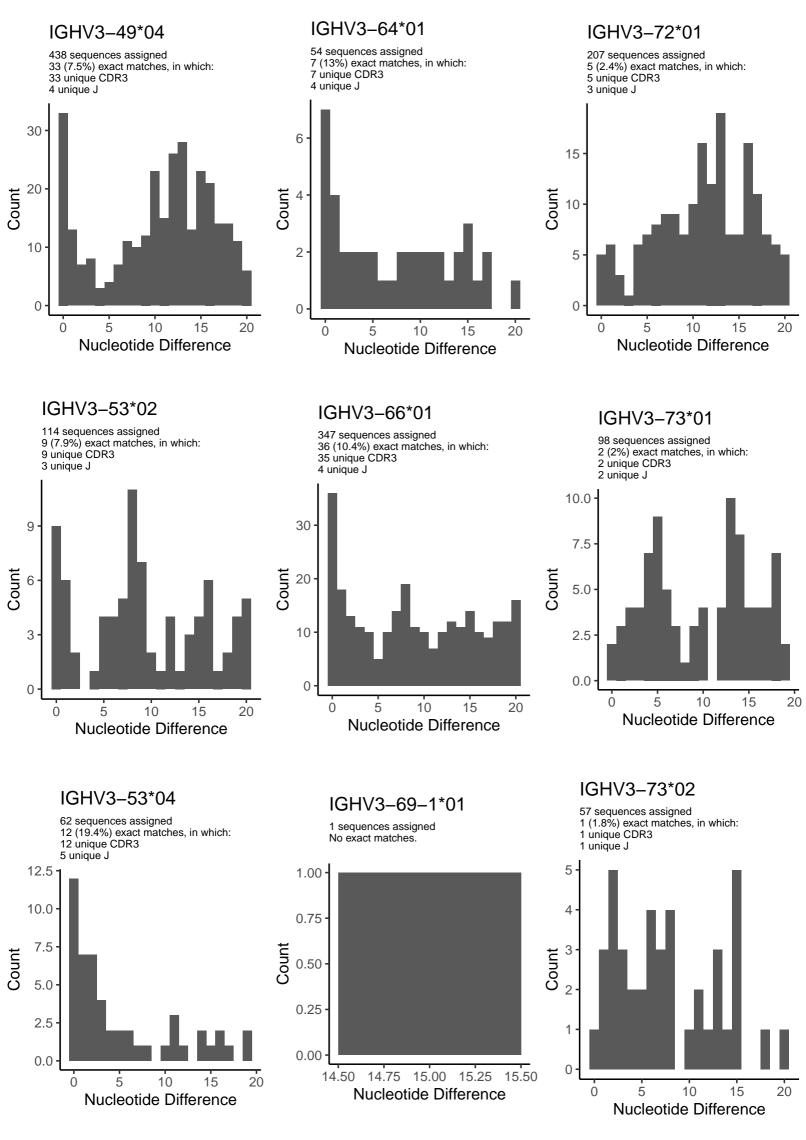


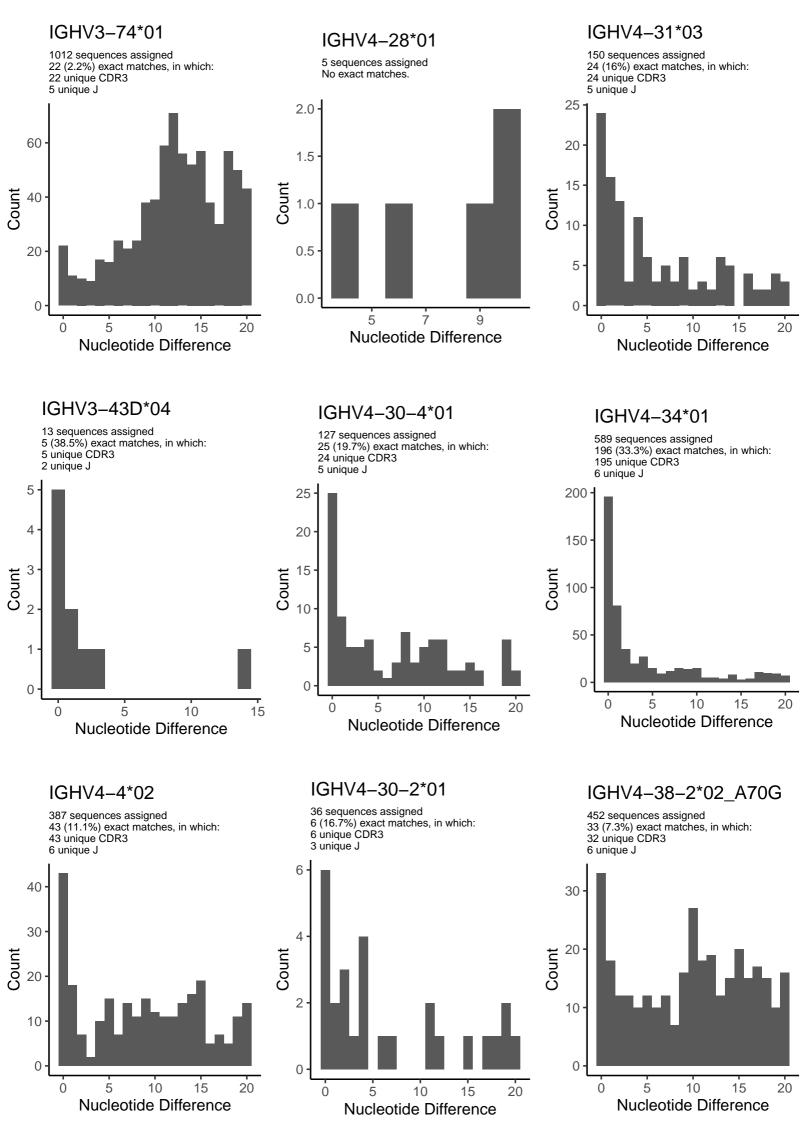


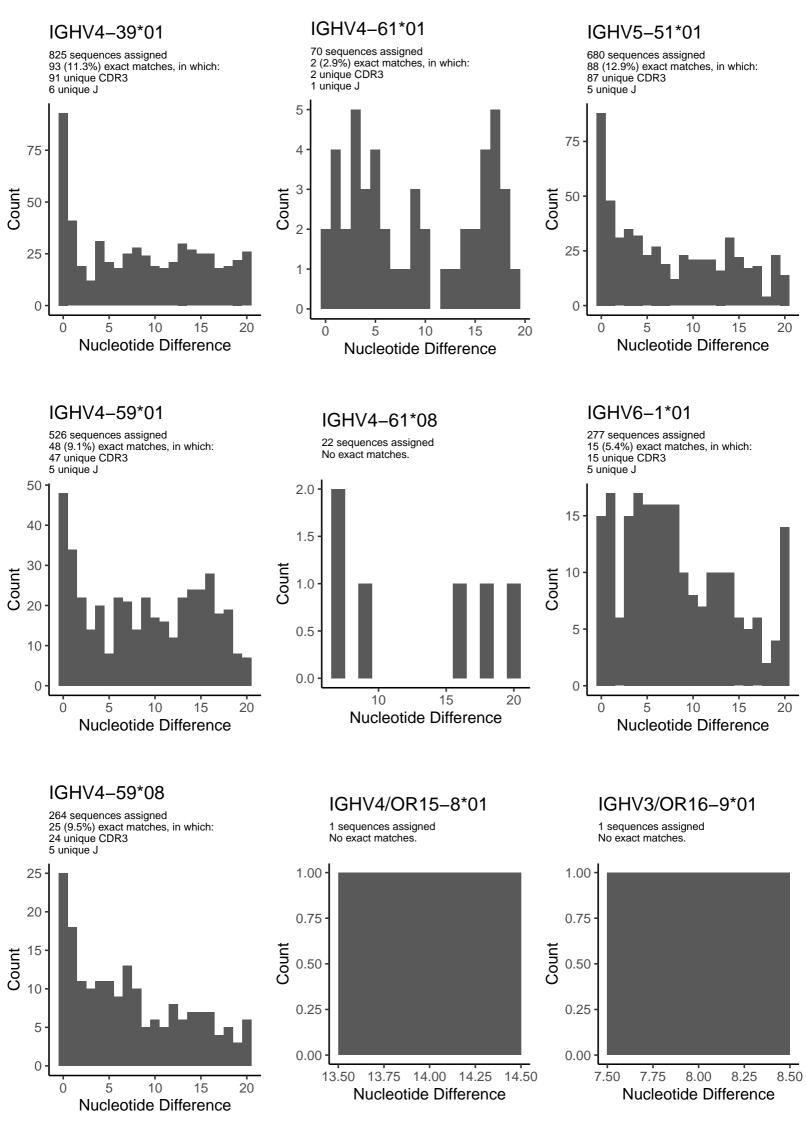


IGHV3-15*01 IGHV2-70*04 IGHV3-9*01 890 sequences assigned 52 (5.8%) exact matches, in which: 43 sequences assigned 1005 sequences assigned 9 (20.9%) exact matches, in which: 129 (12.8%) exact matches, in which: 9 unique CDR3 50 unique CDR3 127 unique CDR3 5 unique J 4 unique J 6 unique J 50 7.5 100 40 Count 30 5.0 50 20 2.5 10 0 0.0 0 5 10 15 20 10 20 0 0 15 5 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-70*15 IGHV3-20*01 IGHV3-11*01 69 sequences assigned 11 (15.9%) exact matches, in which: 11 unique CDR3 39 sequences assigned 3 (7.7%) exact matches, in which: 3 unique CDR3 577 sequences assigned 39 (6.8%) exact matches, in which: 37 unique CDR3 3 unique J 3 unique J 5 unique J 50 9 40 3 30 Count Count 20 2 3 10 1 0 0 0 10 15 20 0 5 10 15 20 10 15 0 5 0 5 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-7*01 IGHV3-13*01 IGHV3-20*04 195 sequences assigned 1144 sequences assigned 22 sequences assigned 50 (4.4%) exact matches, in which: 14 (7.2%) exact matches, in which: No exact matches. 50 unique CDR3 14 unique CDR3 5 unique J 5 unique J 2.0 60 1.5 10 Count Count 1.0 5 20 0.5 0.0 0 0 10 10 0 5 15 20 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference



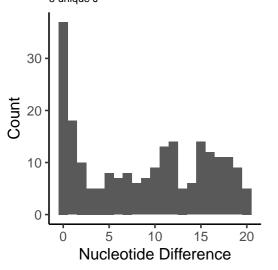






IGHV7-4-1*02

284 sequences assigned 37 (13%) exact matches, in which: 37 unique CDR3 6 unique J



IGHV4-38-2*02_A70G

