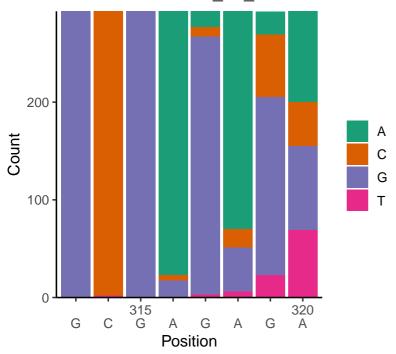
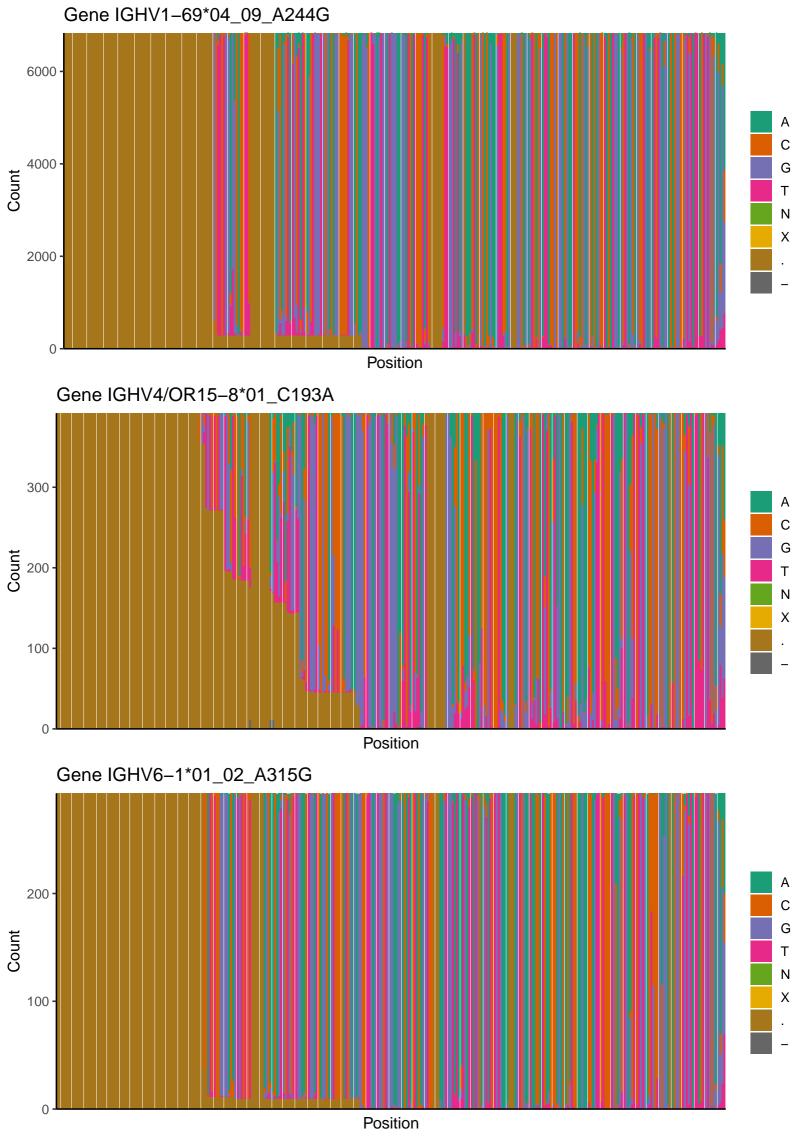
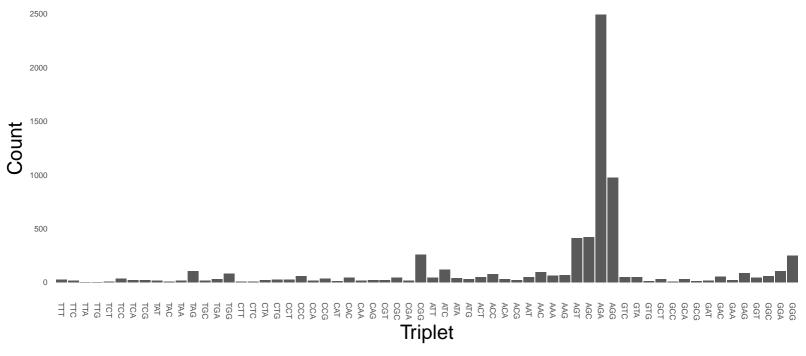


Gene IGHV6-1*01_02_A315G

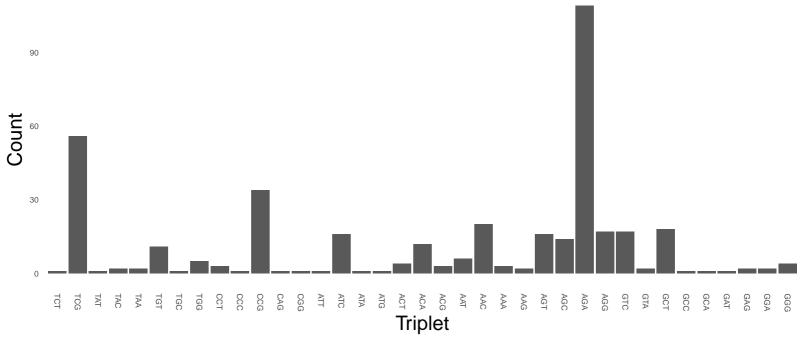




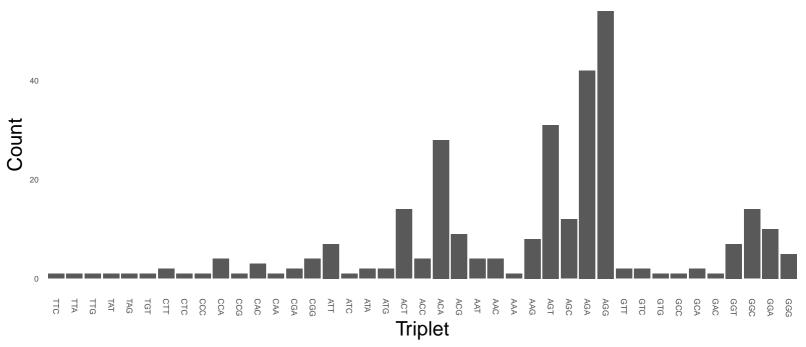
IGHV1-69*04_09_A244G- Final 3 nucleotides as a triplet

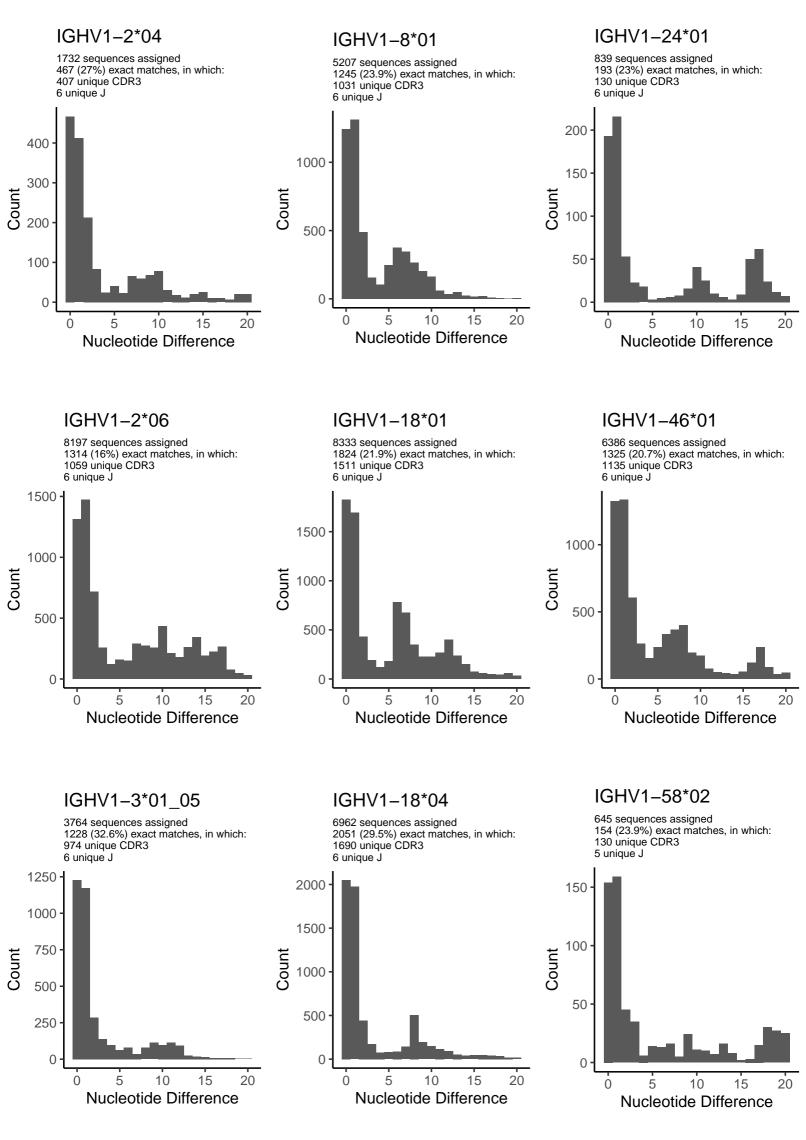


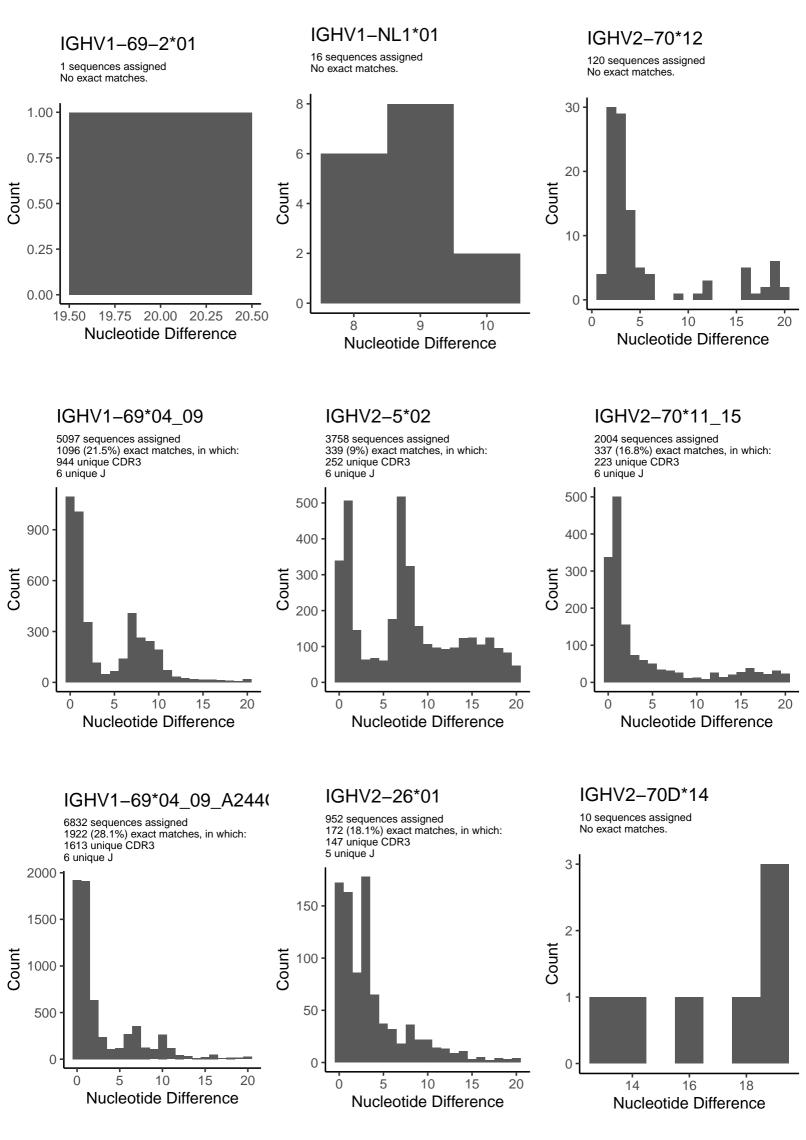
IGHV4/OR15-8*01_C193A- Final 3 nucleotides as a triplet

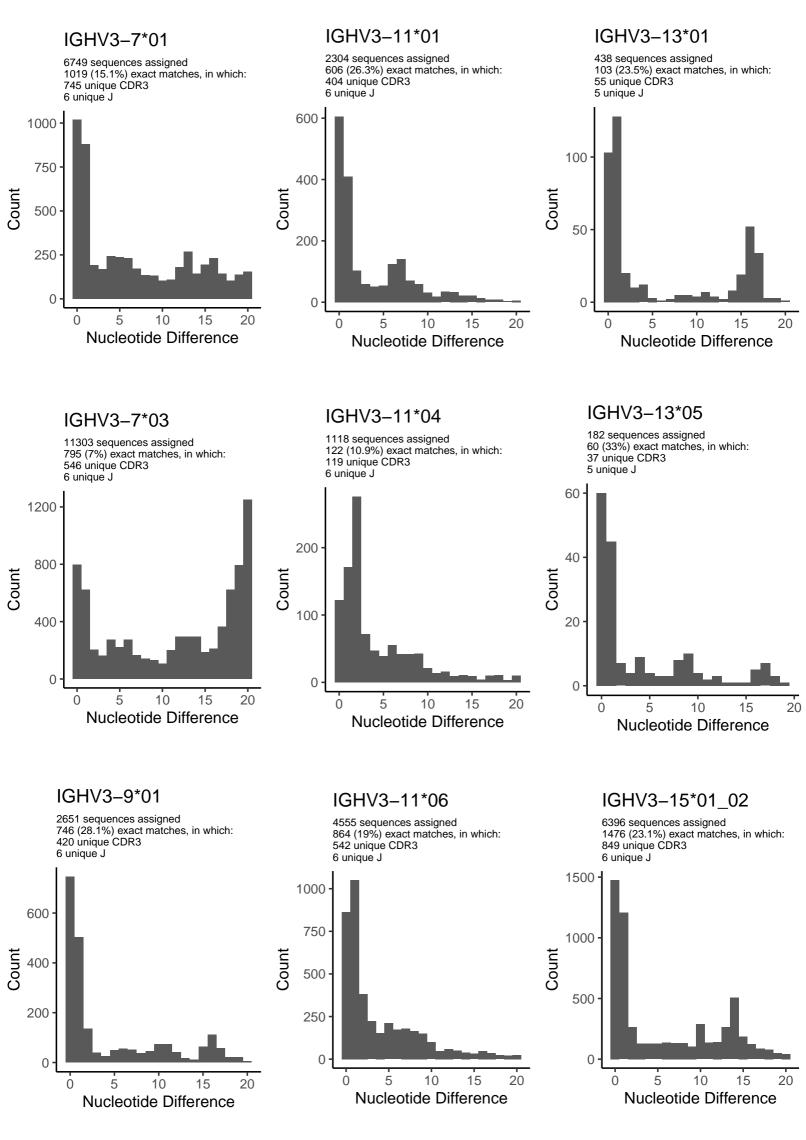


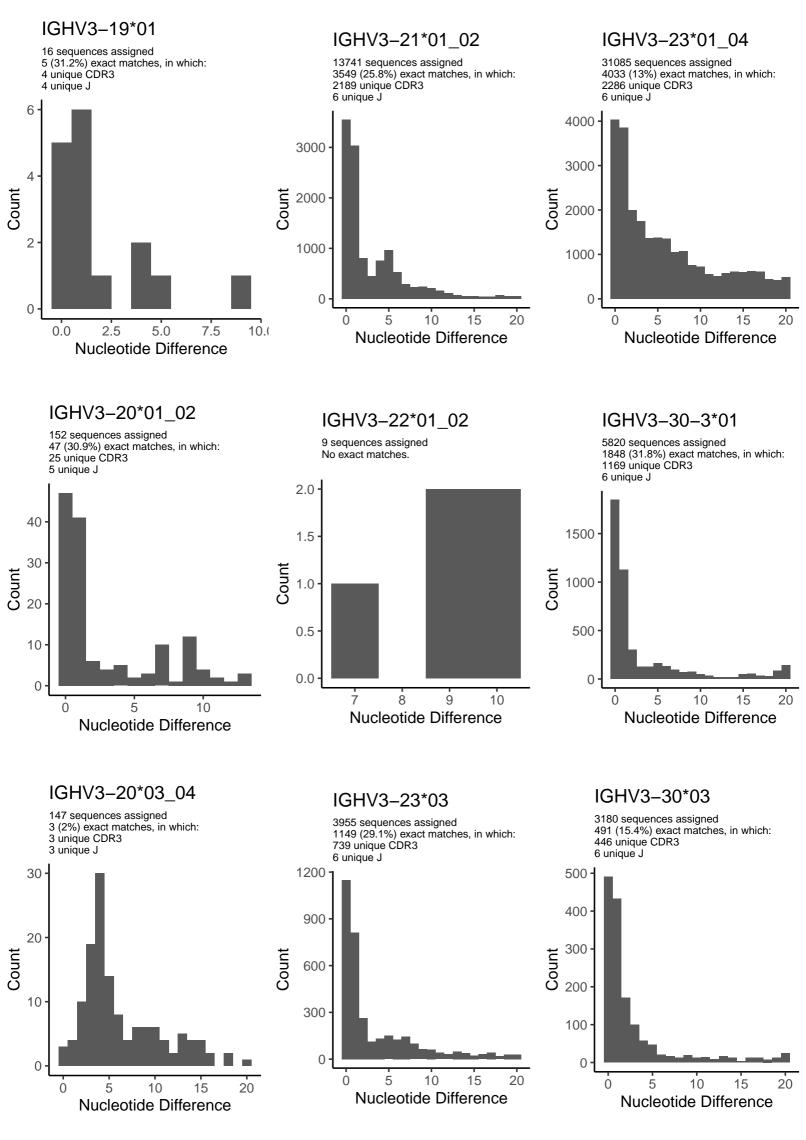
IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet

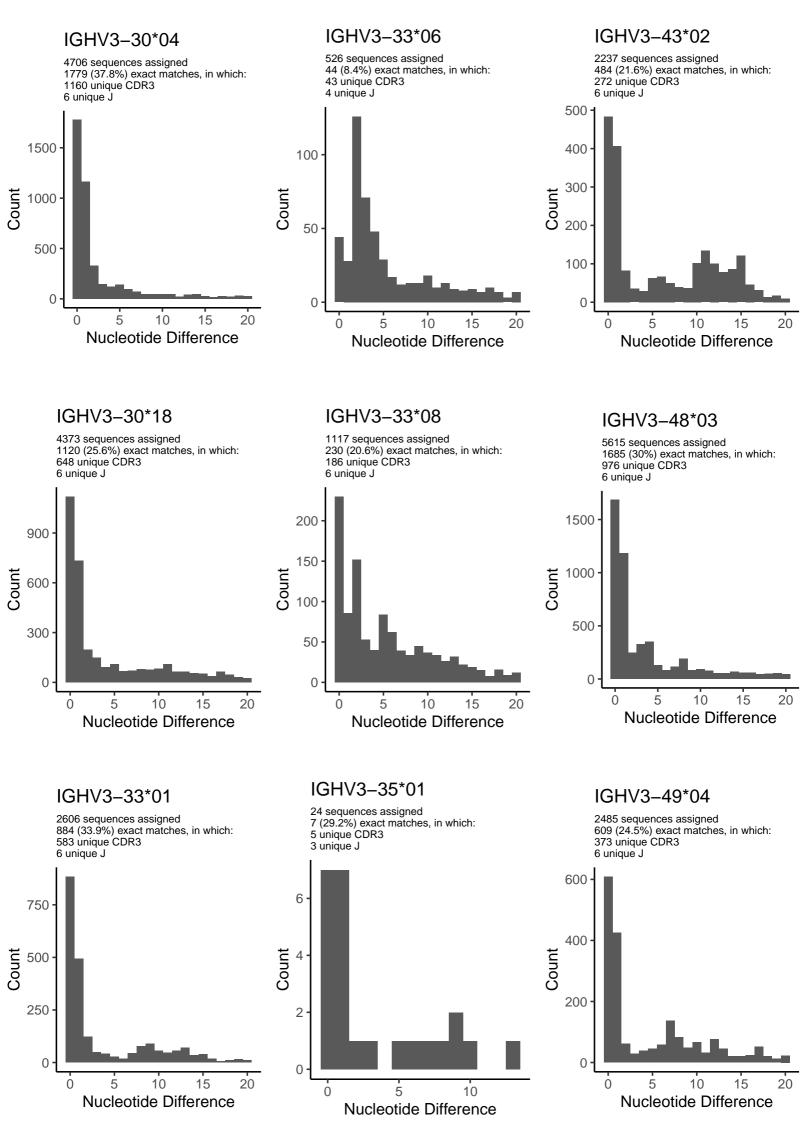


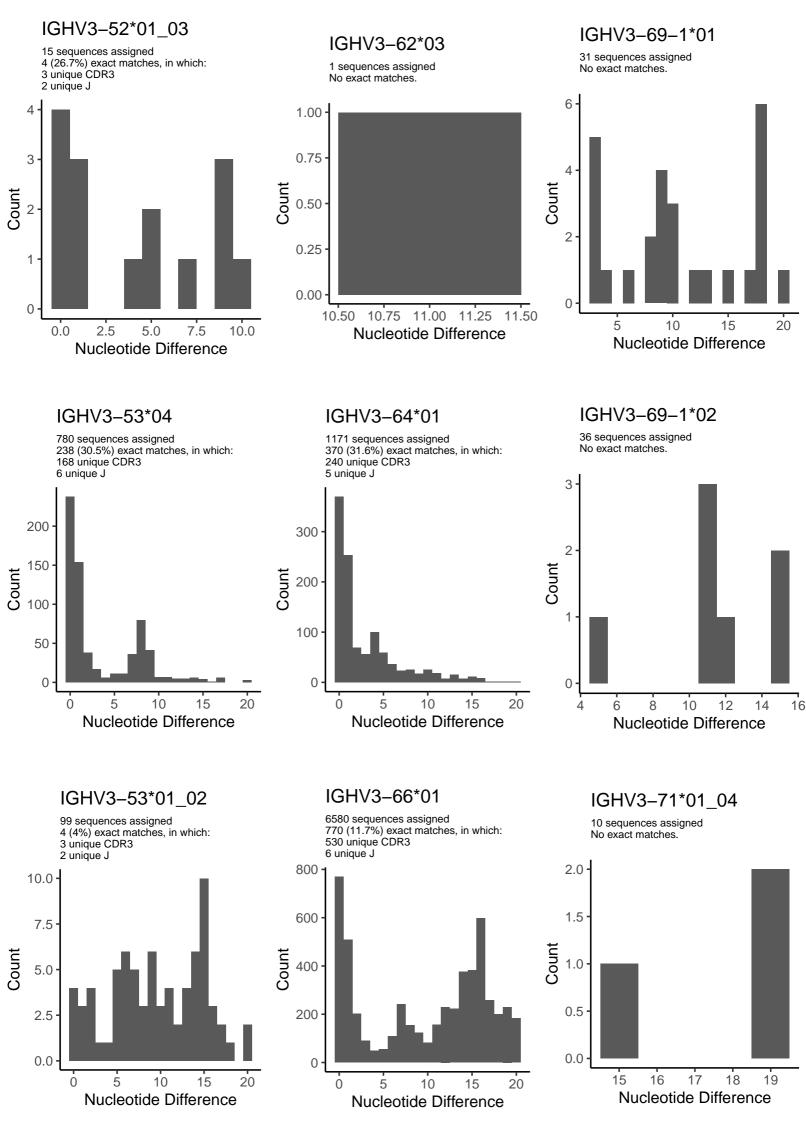




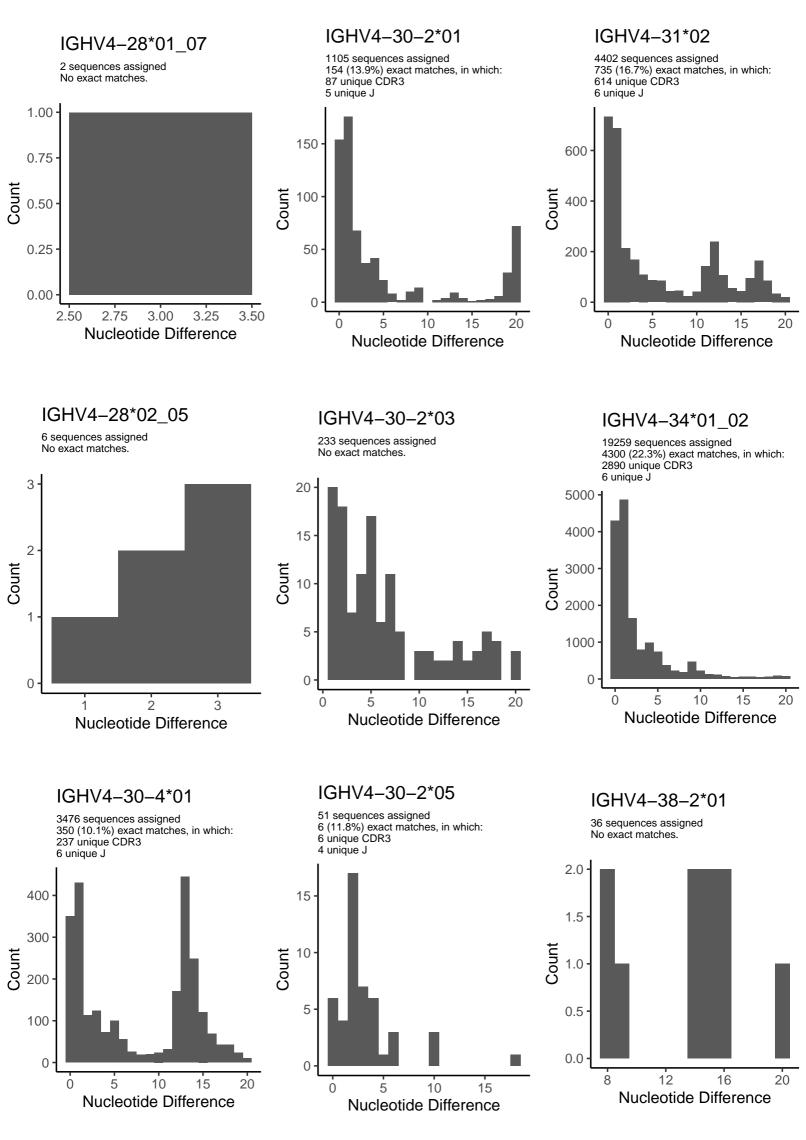


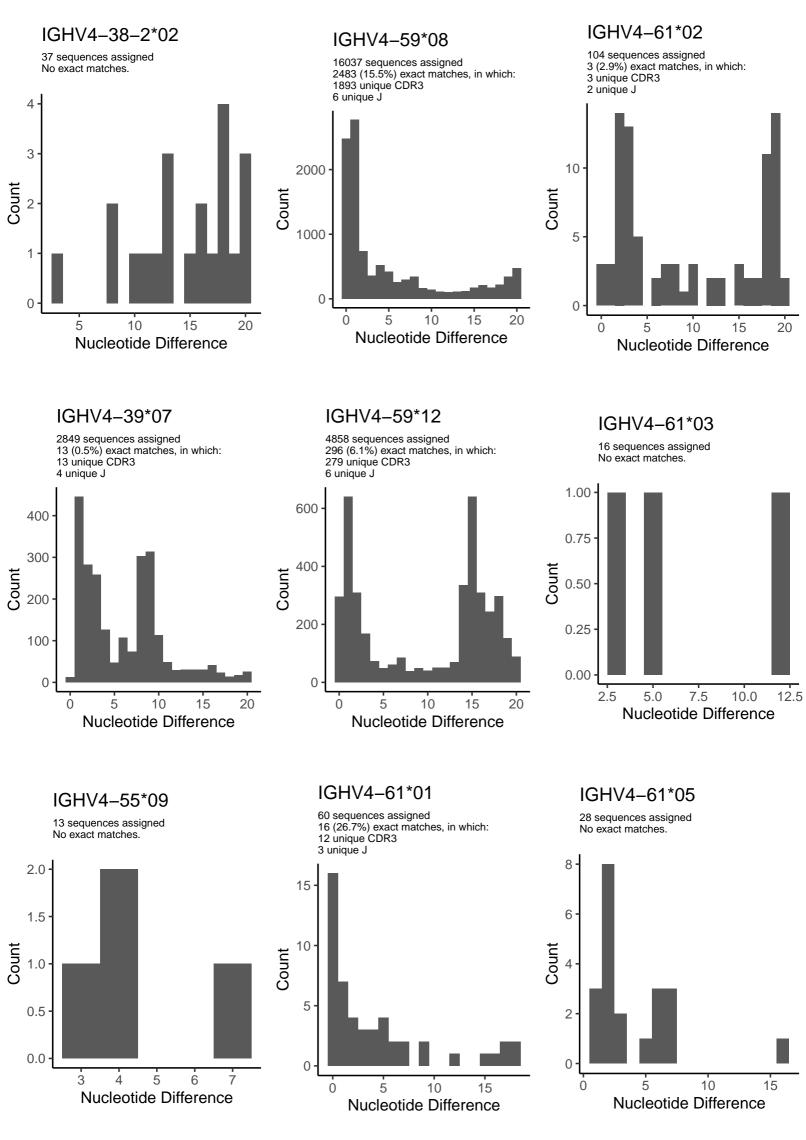


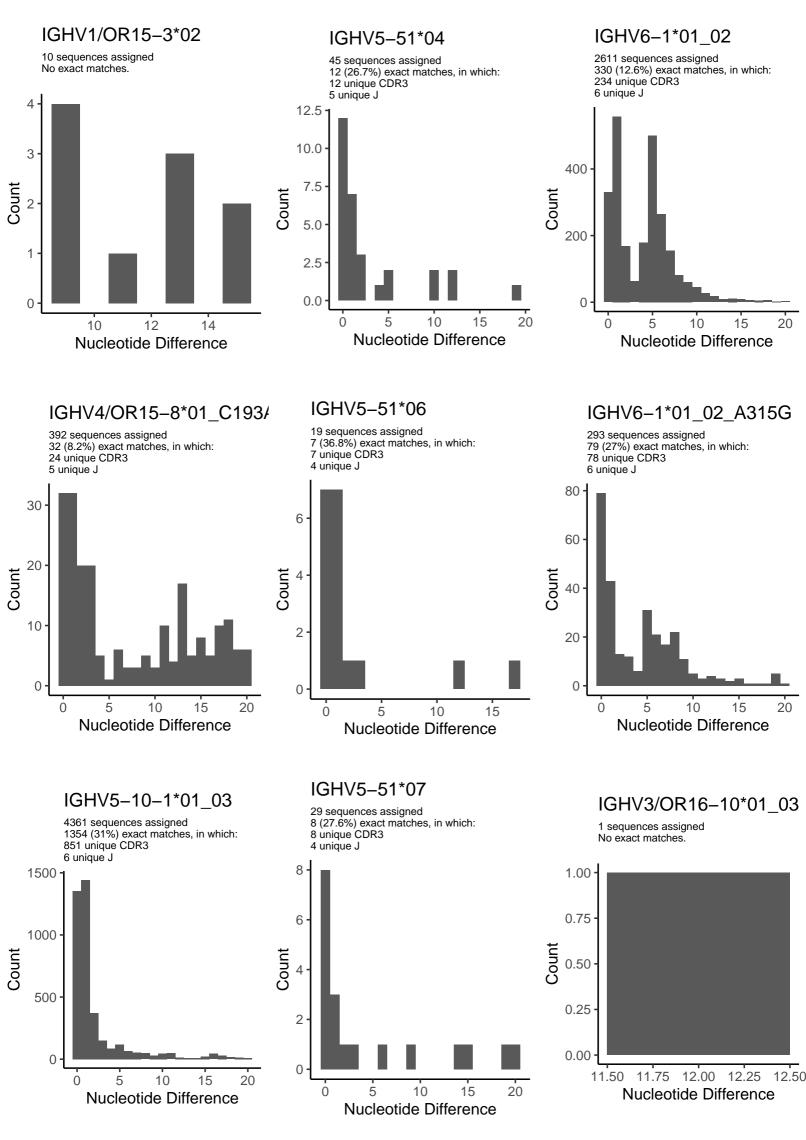




IGHV3-72*01 IGHV3-NL1*01 IGHV3-74*01_02 1748 sequences assigned 374 (21.4%) exact matches, in which: 465 sequences assigned 142 sequences assigned 54 (11.6%) exact matches, in which: 6 (4.2%) exact matches, in which: 6 unique CDR3 40 unique CDR3 217 unique CDR3 5 unique J 2 unique J 6 unique J 300 40 10 Count Count 200 20 5 100 0 0 0 5 10 15 20 0 15 0 10 15 5 10 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-73*01_02 IGHV4-4*02 03 IGHV3-43D*04 1228 sequences assigned 324 (26.4%) exact matches, in which: 7300 sequences assigned 1 sequences assigned 1461 (20%) exact matches, in which: No exact matches. 178 unique CDR3 1079 unique CDR3 5 unique J 6 unique J 400 1.00 1500 300 0.75 1000 Count Count 0.50 200 500 0.25 100 0.00 0 18.50 18.75 19.00 19.25 19.50 0 5 10 15 20 20 10 15 0 5 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV4-28*03 IGHV3-74*03 IGHV3-64D*06 11 sequences assigned 755 sequences assigned 1081 sequences assigned 2 (18.2%) exact matches, in which: 2 unique CDR3 1 (0.1%) exact matches, in which: 316 (29.2%) exact matches, in which: 1 unique CDR3 140 unique CDR3 2 unique J 1 unique J 5 unique J 3 125 300 100 2 200 75 Count Count 50 100 25 0 0 0 10 15 20 5 10 15 20 0 2 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference

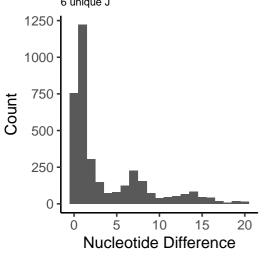






IGHV7-4-1*02

3671 sequences assigned 756 (20.6%) exact matches, in which: 578 unique CDR3 6 unique J



IGHV7-81*01

1 sequences assigned No exact matches.

