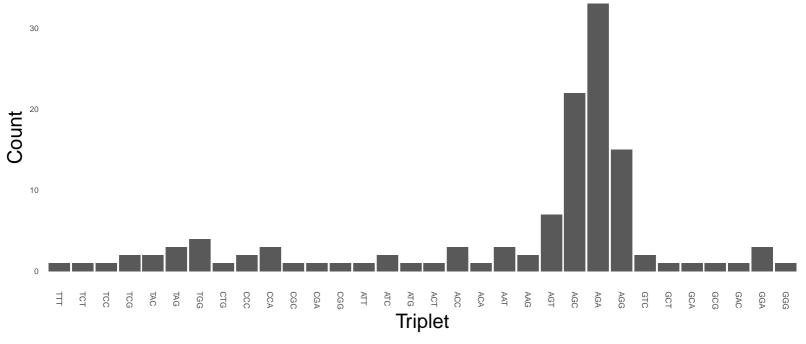
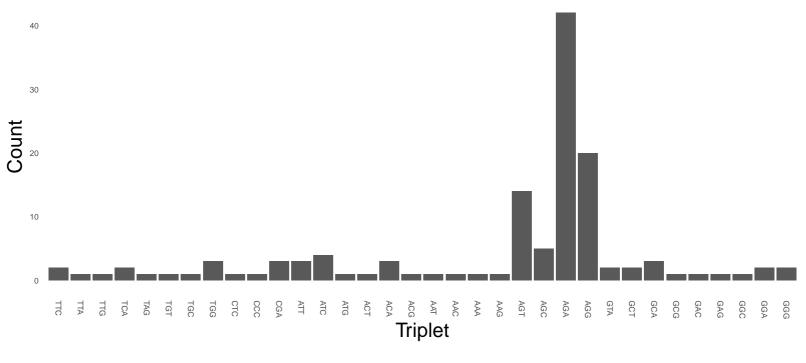
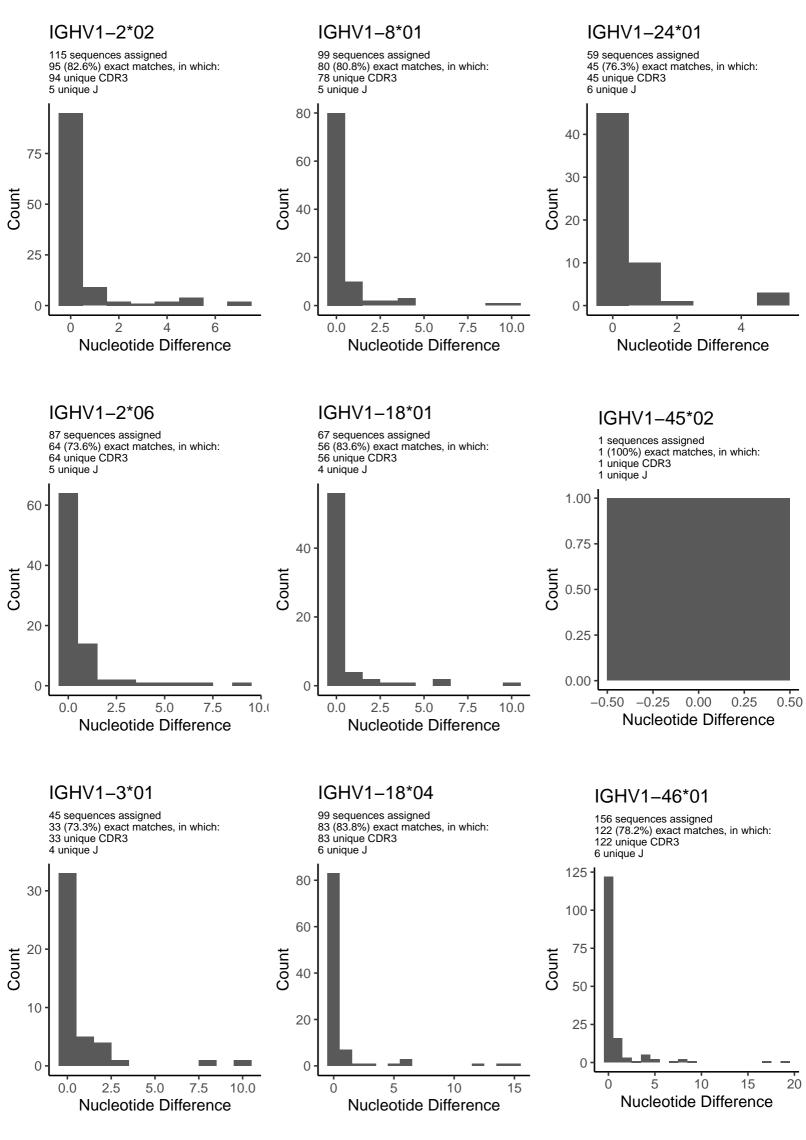


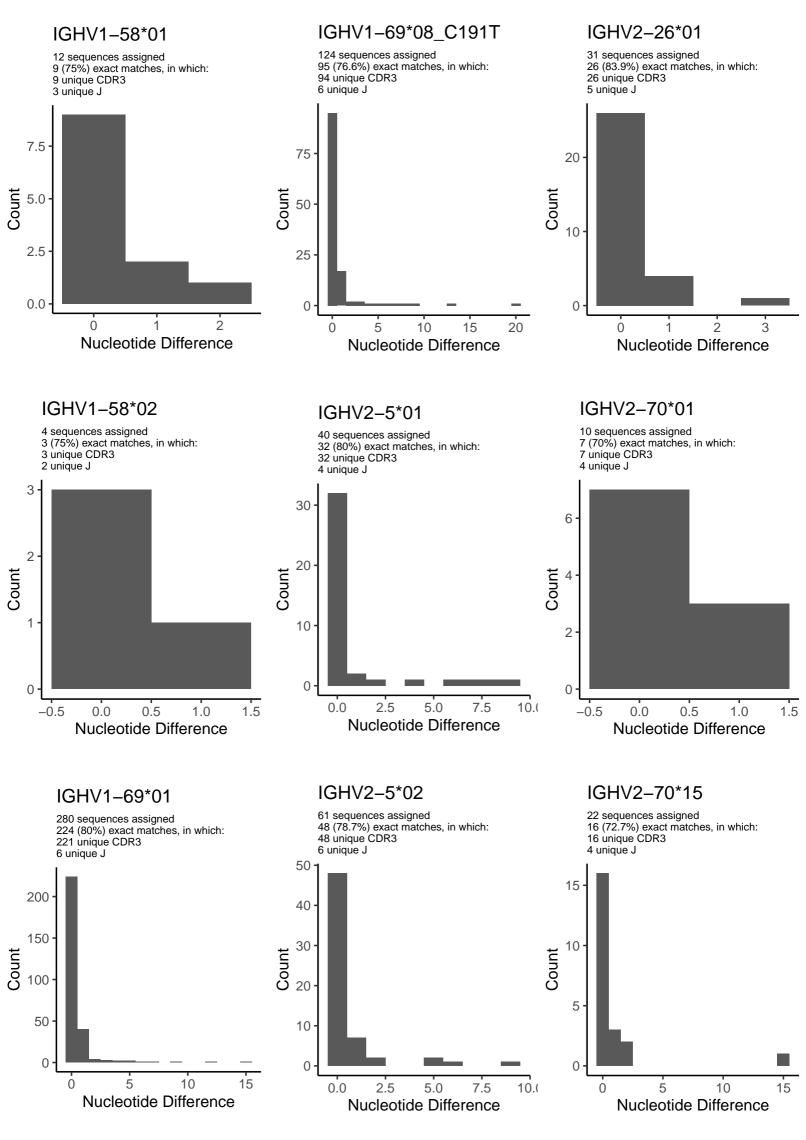
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet

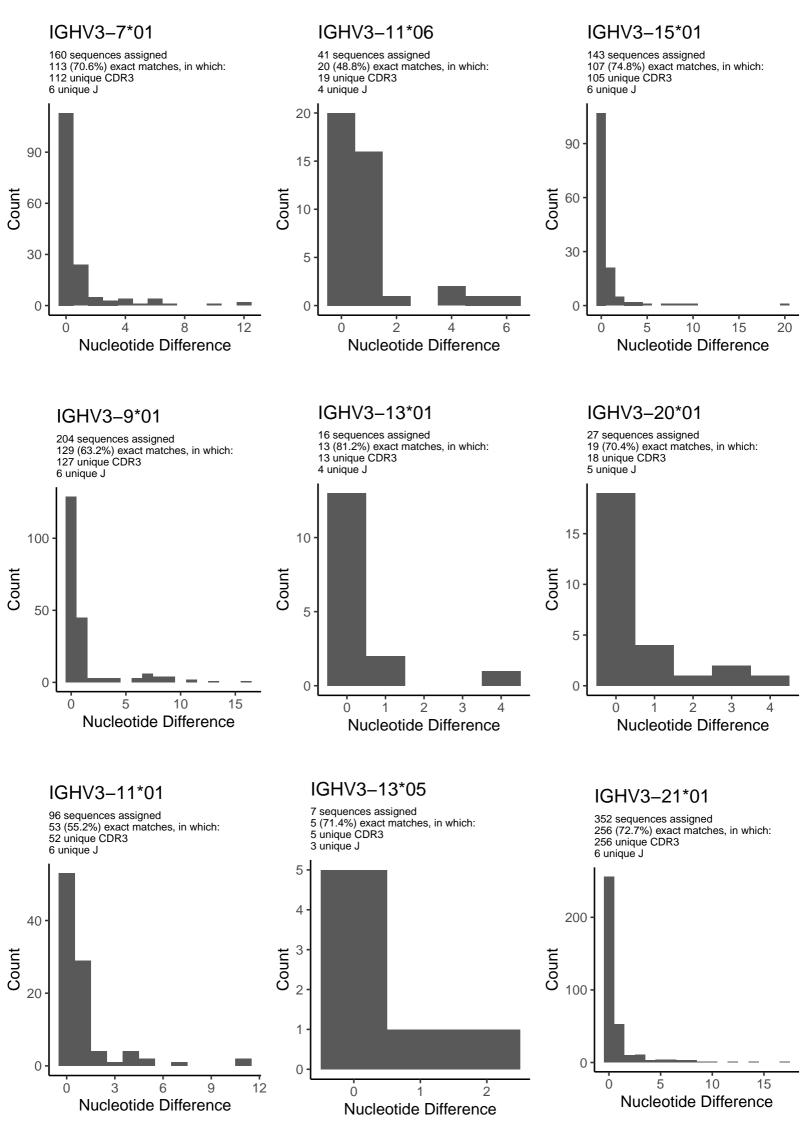


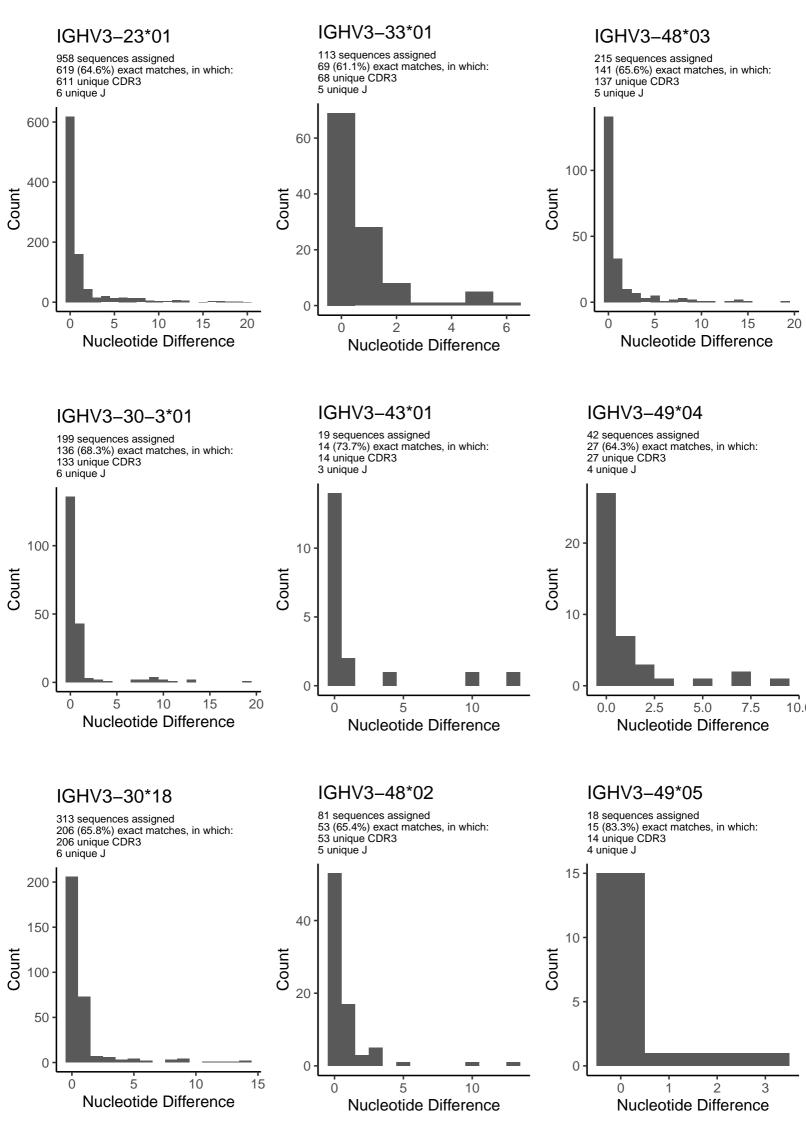
IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

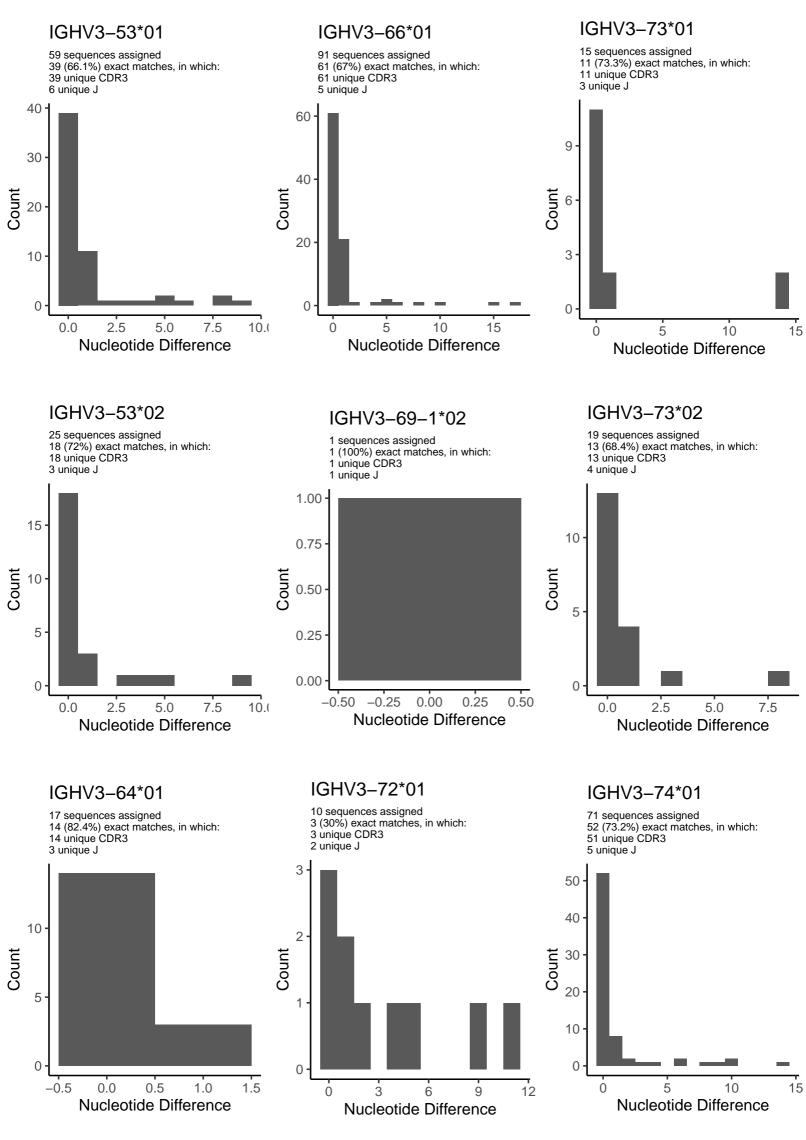


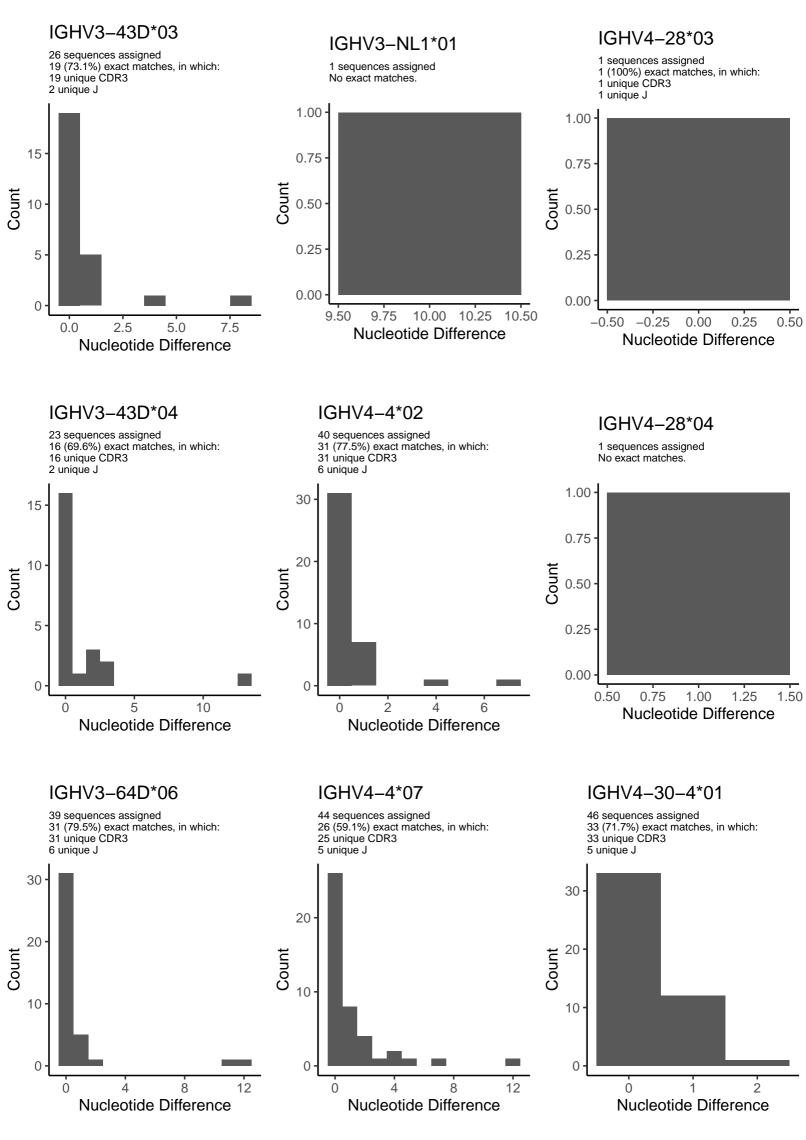


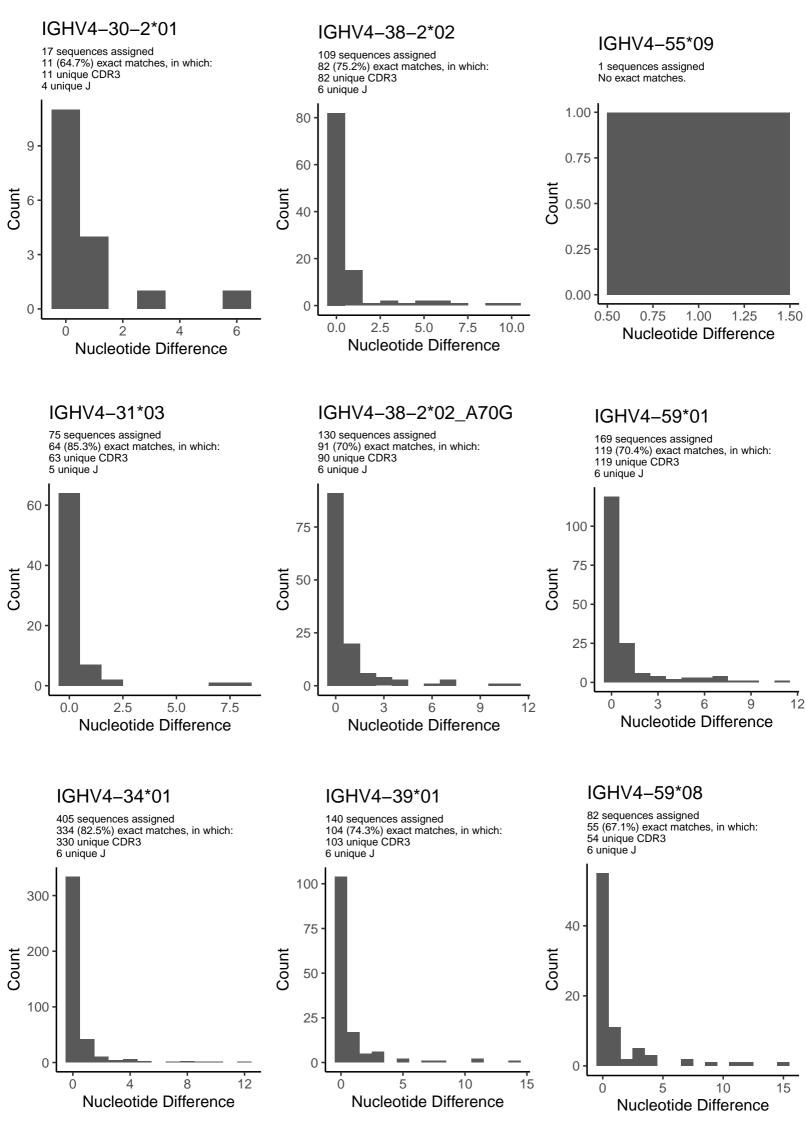






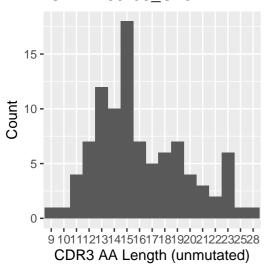






IGHV4-61*01 IGHV5-51*01 12 sequences assigned 7 (58.3%) exact matches, in which: 7 unique CDR3 302 sequences assigned 234 (77.5%) exact matches, in which: 232 unique CDR3 2 unique J 6 unique J 6 200 150 Count 4 100 2 50 0 0 0 5 10 Nucleotide Difference **Nucleotide Difference** IGHV6-1*01 IGHV4/OR15-8*01 37 sequences assigned 27 (73%) exact matches, in which: 27 unique CDR3 4 unique J 1 sequences assigned No exact matches. 1.00 -0.75 20 Count 0.50 10 0.25 0.00 0 3.75 4.00 4.25 4.50 3.50 0 **Nucleotide Difference Nucleotide Difference** IGHV5-10-1*03 IGHV7-4-1*02 80 sequences assigned 47 sequences assigned 65 (81.2%) exact matches, in which: 30 (63.8%) exact matches, in which: 65 unique CDR3 30 unique CDR3 5 unique J 6 unique J 30 60 20 Count 10 20 0 0 2.5 5.0 7.5 10 0.0 10.0 0 5 15 Nucleotide Difference Nucleotide Difference

IGHV1-69*08_C191T



IGHV4-38-2*02_A70G

