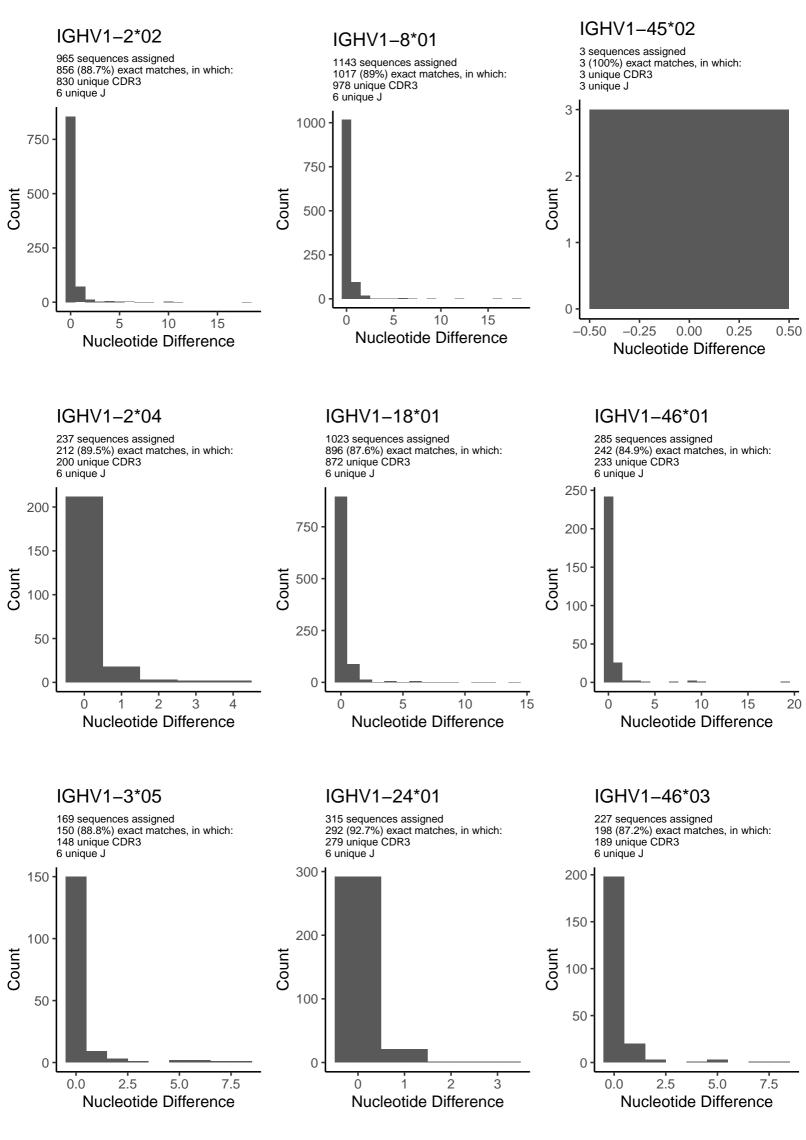
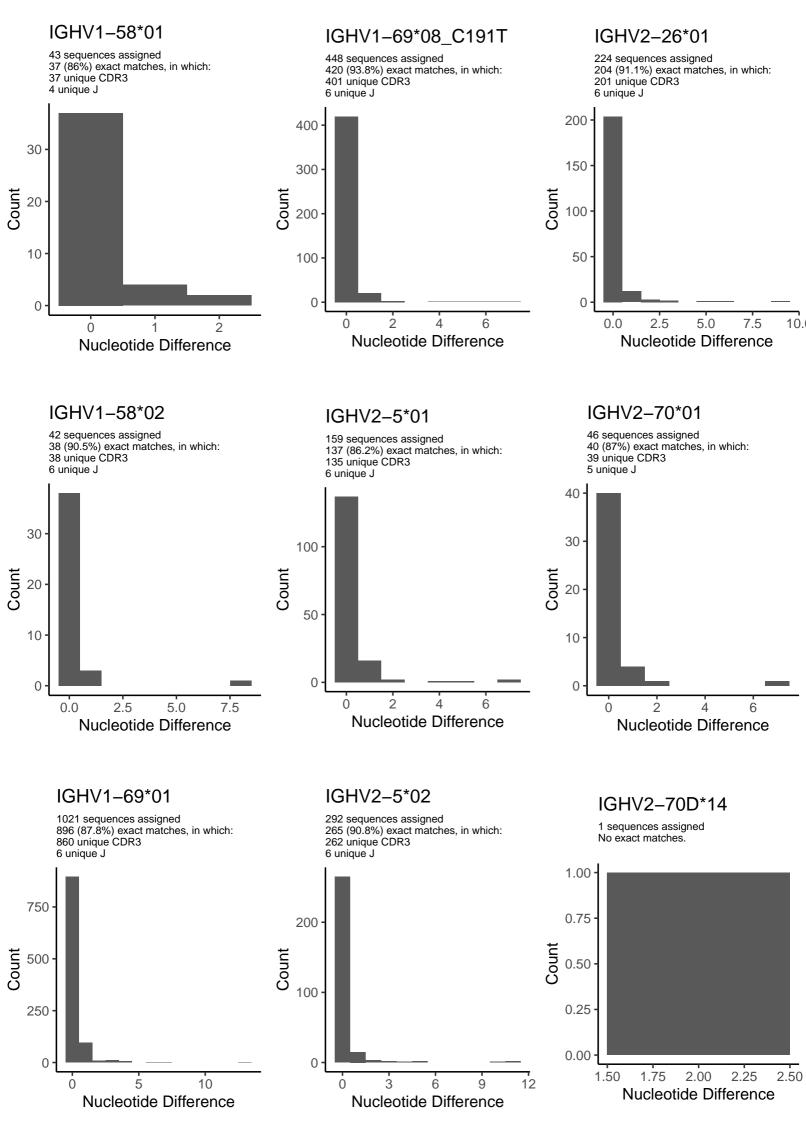
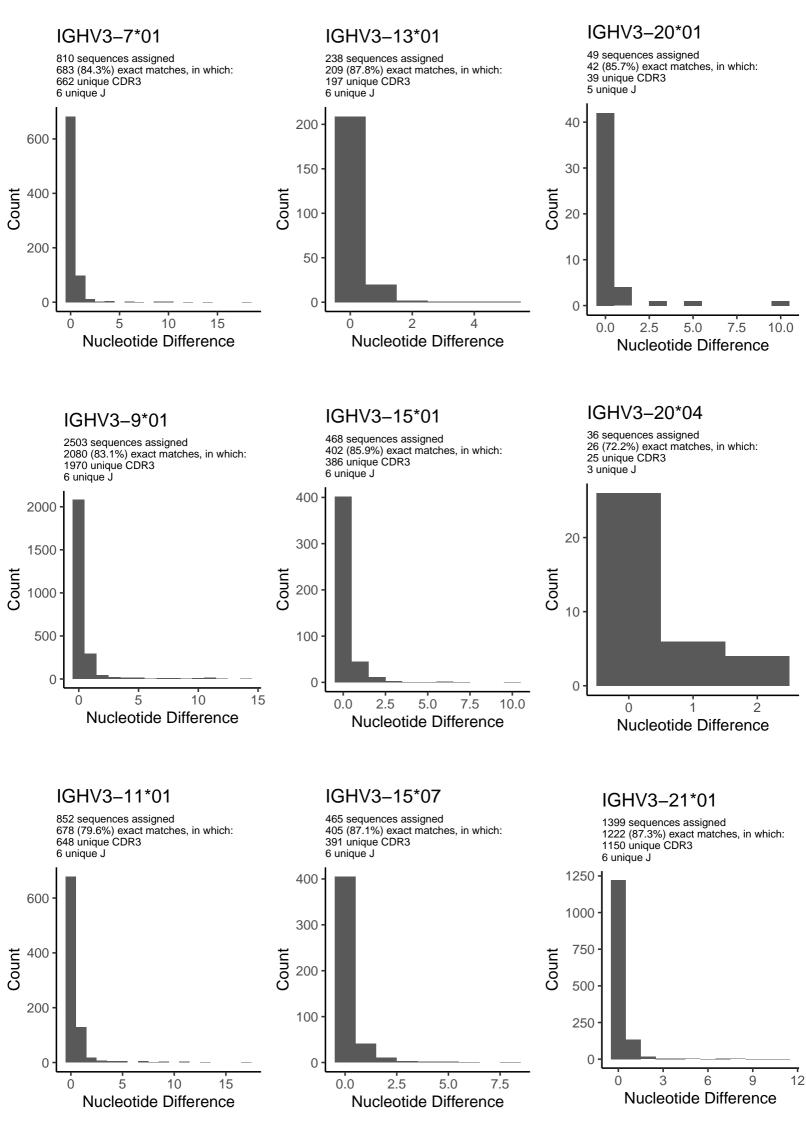
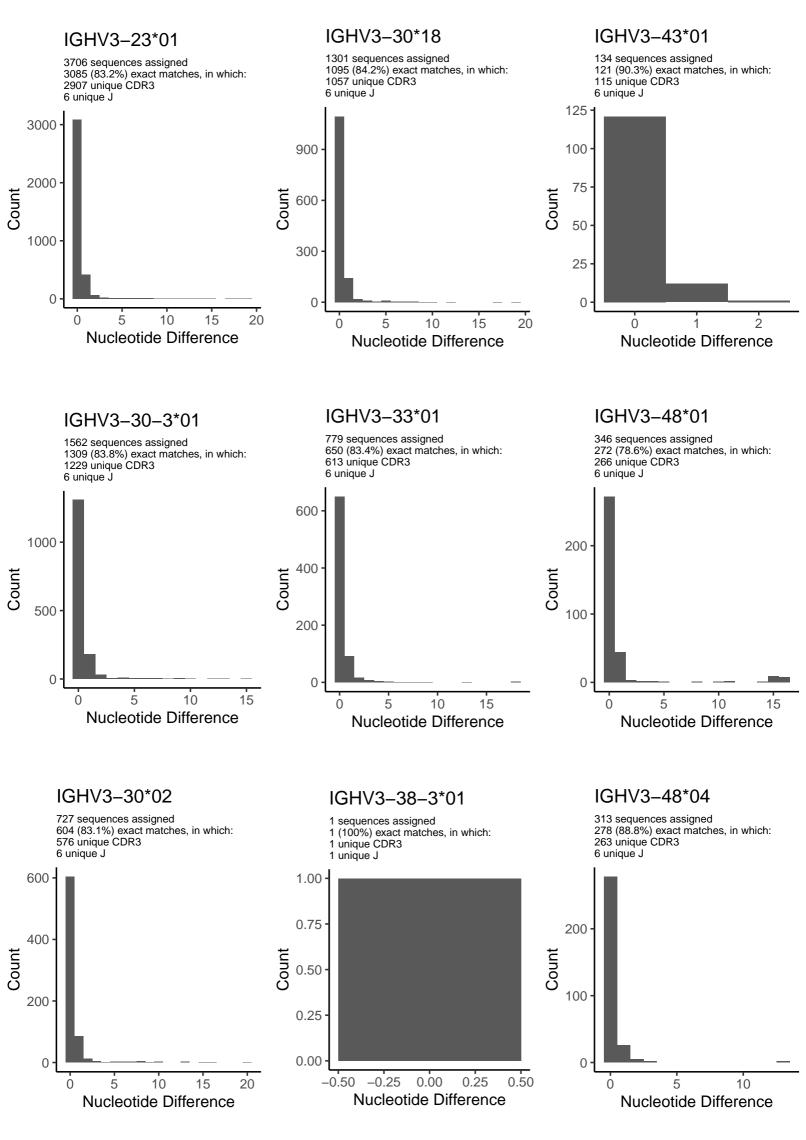


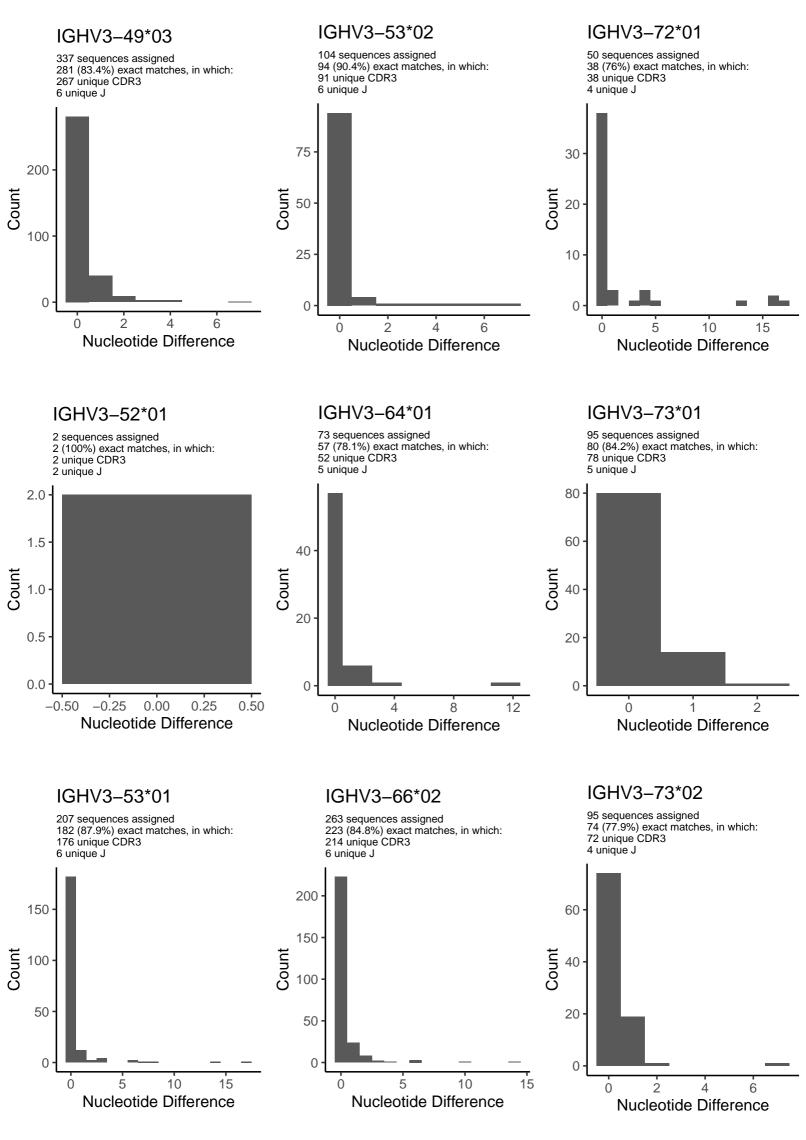
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet

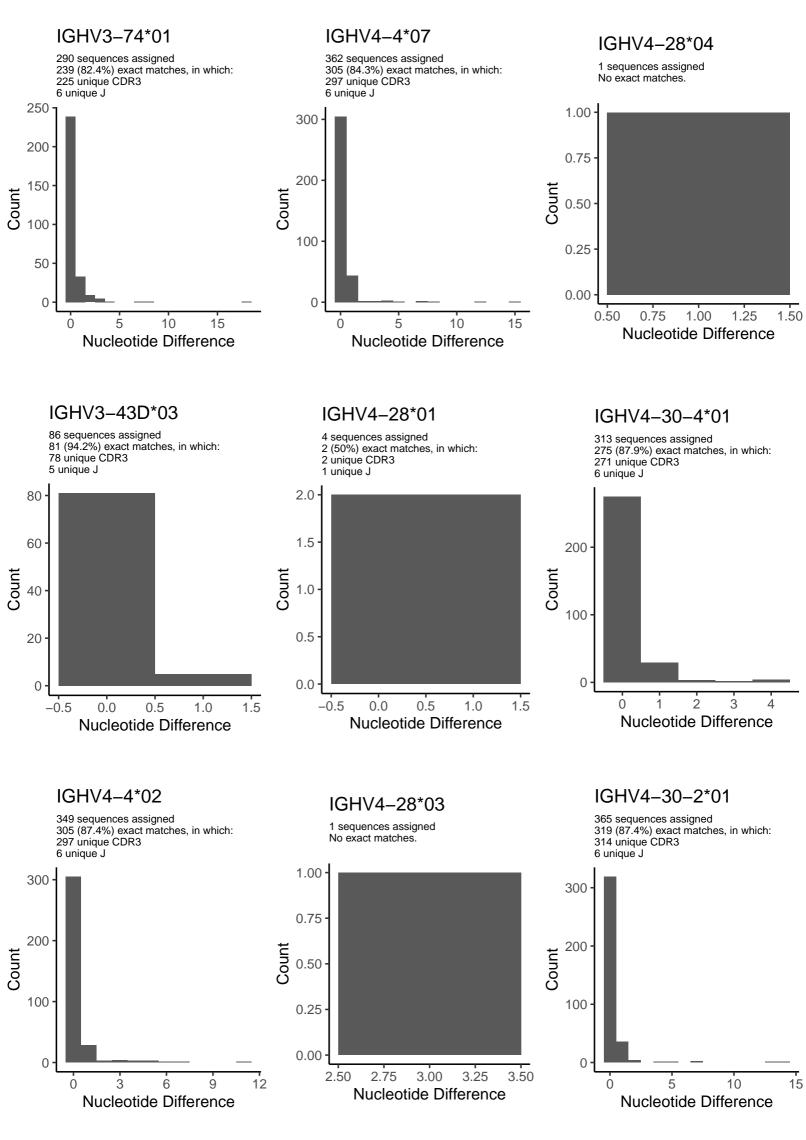


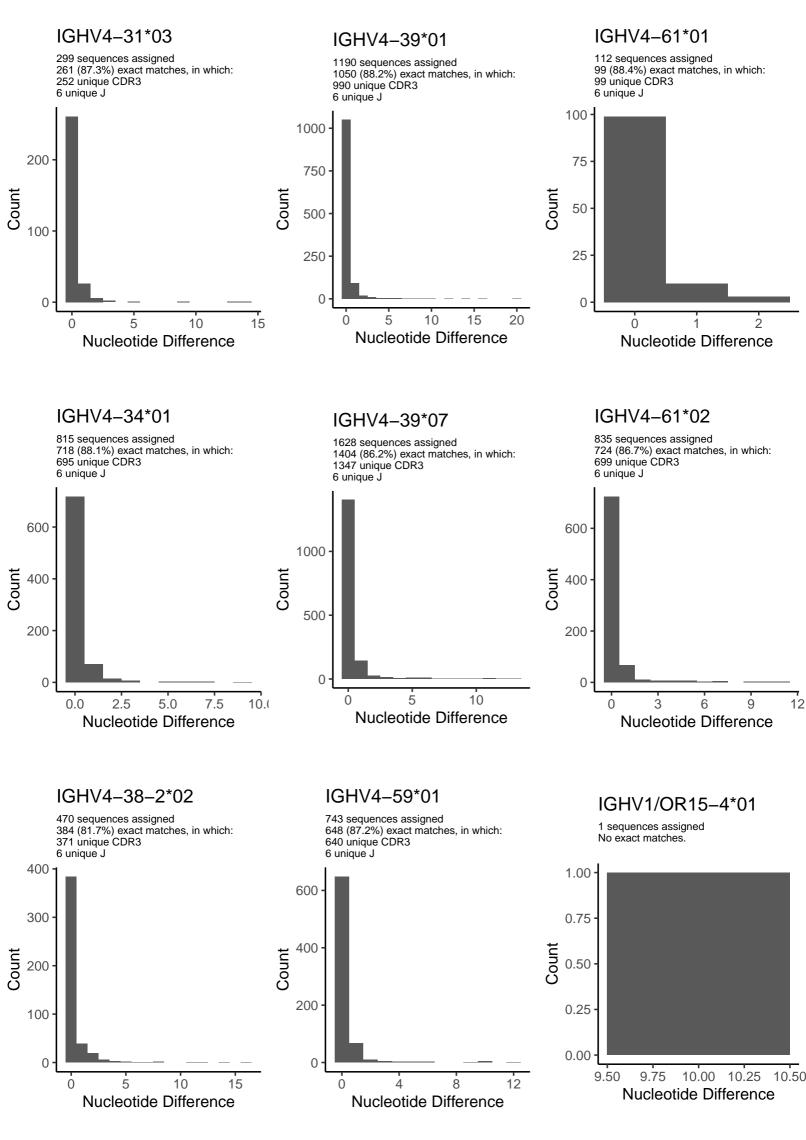








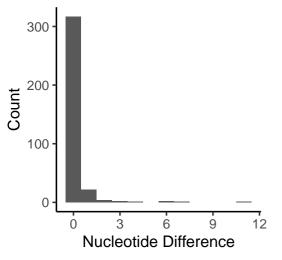




IGHV5-51*01 IGHV3/OR16-12*01 660 sequences assigned 454 (68.8%) exact matches, in which: sequences assigned 1 (100%) exact matches, in which: 440 unique CDR3 1 unique CDR3 6 unique J 1 unique J 1.00 400 0.75 300 Count Count Count 200 0.25 100 0.00 0 0.25 0.50 -0.50 -0.25 0.00 2.5 5.0 7.5 0.0 10.0 **Nucleotide Difference Nucleotide Difference**

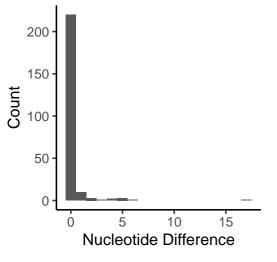
IGHV5-51*03

350 sequences assigned 317 (90.6%) exact matches, in which: 306 unique CDR3 6 unique J



IGHV6-1*01

241 sequences assigned 220 (91.3%) exact matches, in which: 211 unique CDR3 6 unique J



IGHV1-69*08_C191T

40 - 30 - 20 - 10 - 6789101123456789222222222222200
CDR3 AA Length (unmutated)

