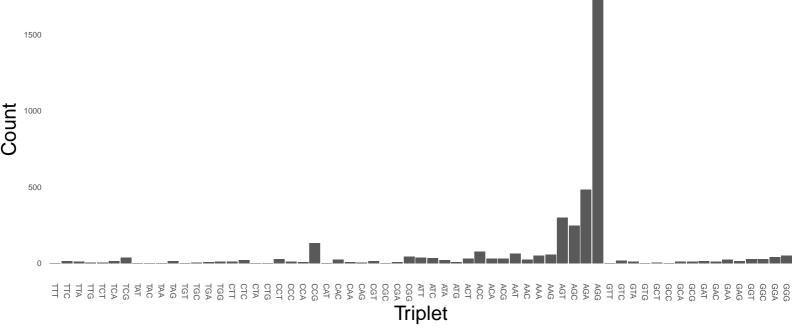
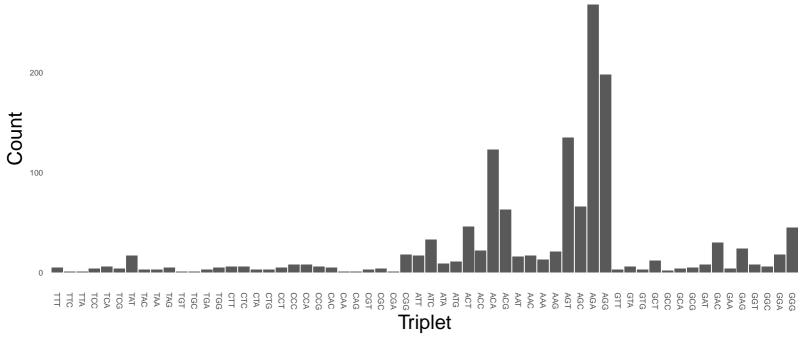


Position

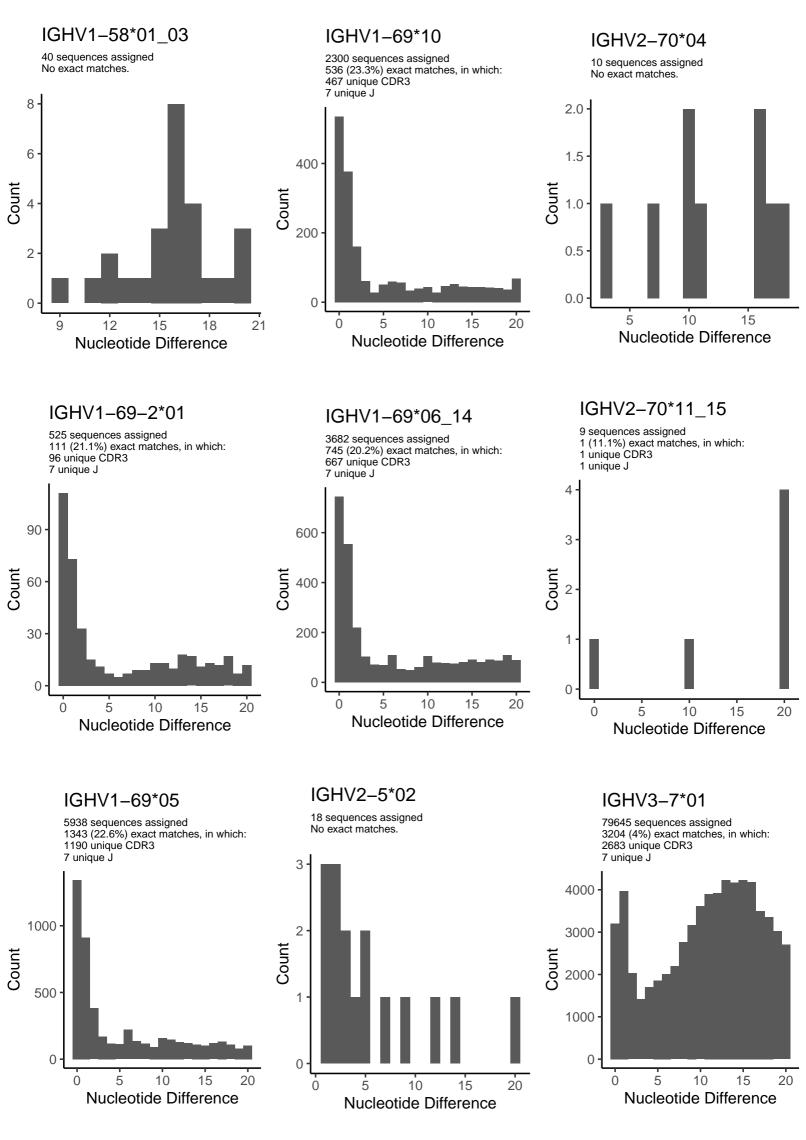
IGHV1-8*02_A250G- Final 3 nucleotides as a triplet

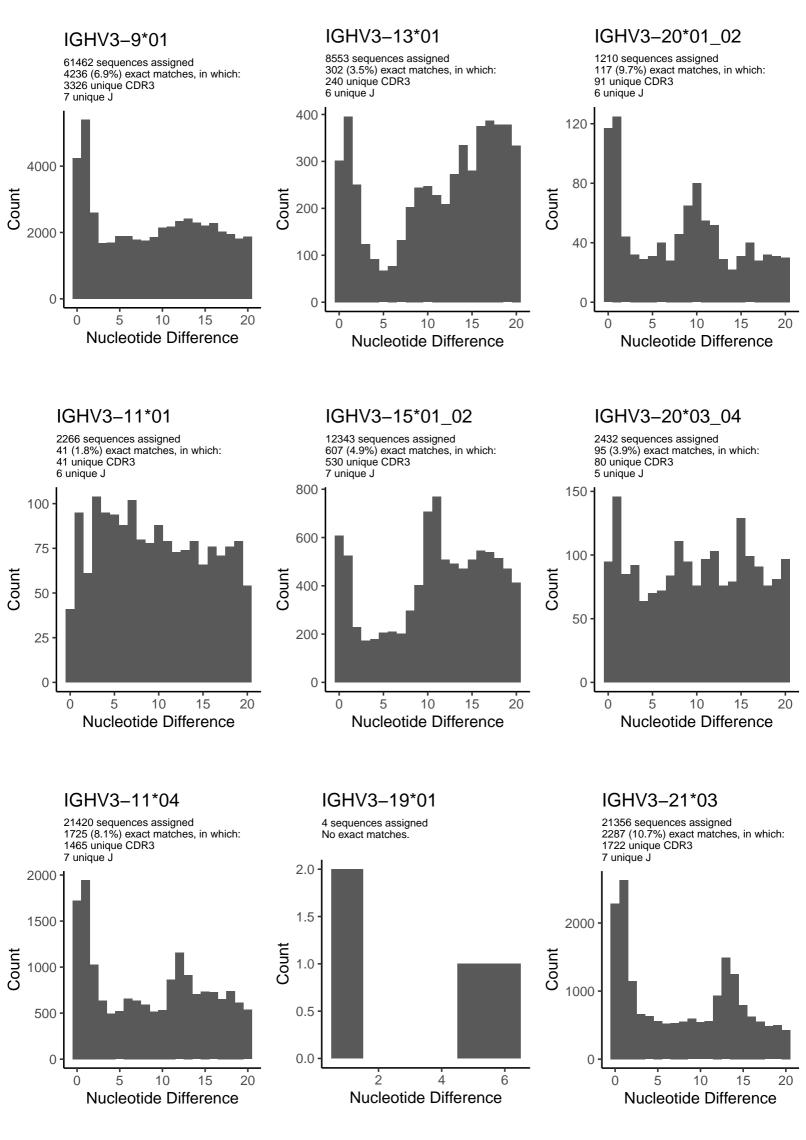


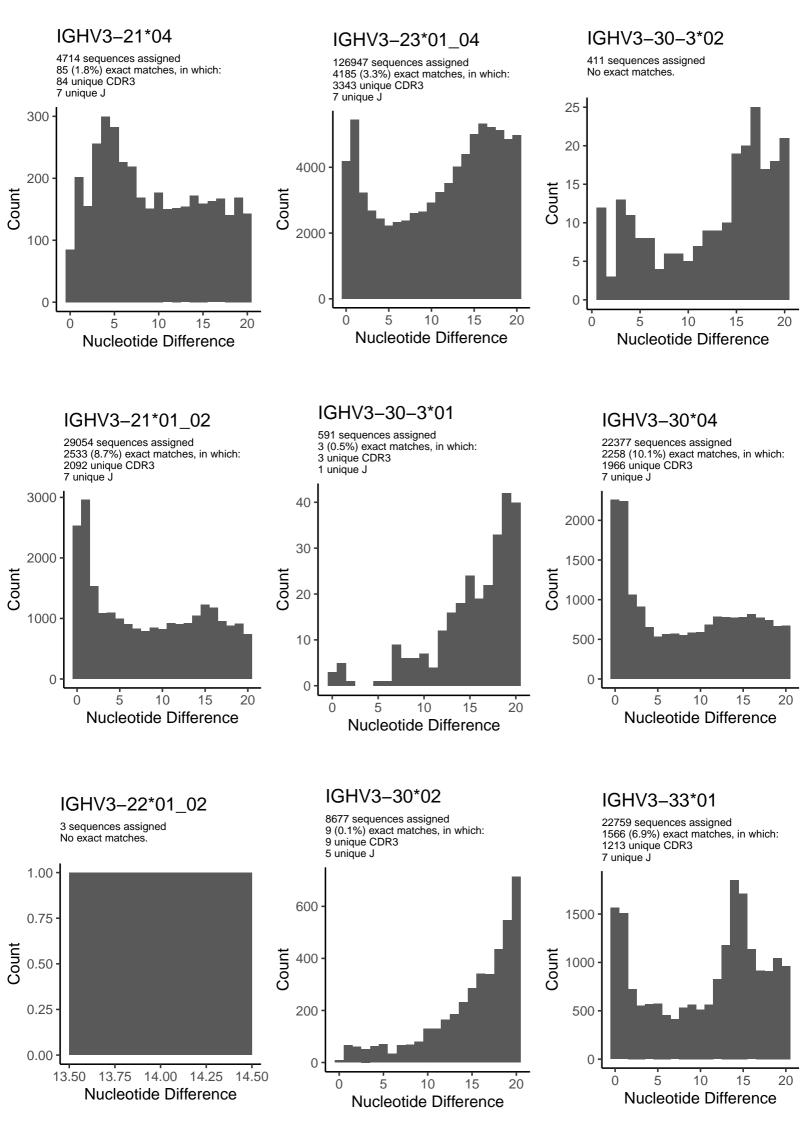
IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet

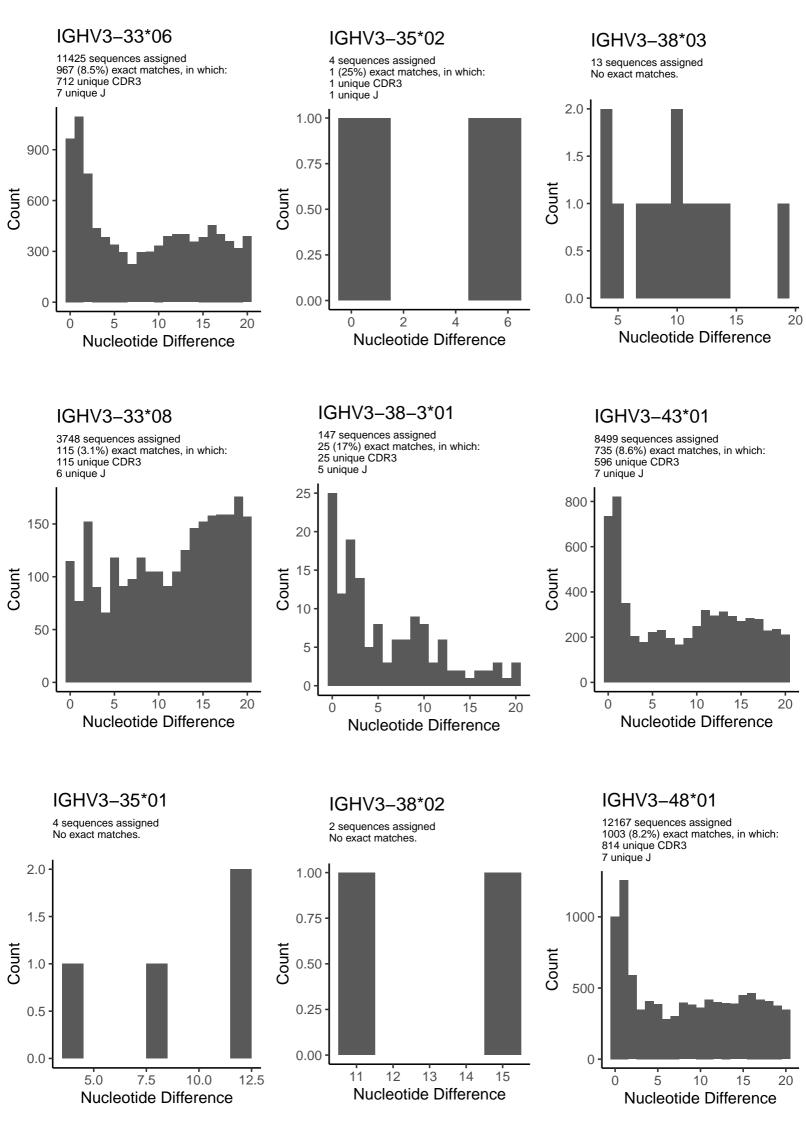


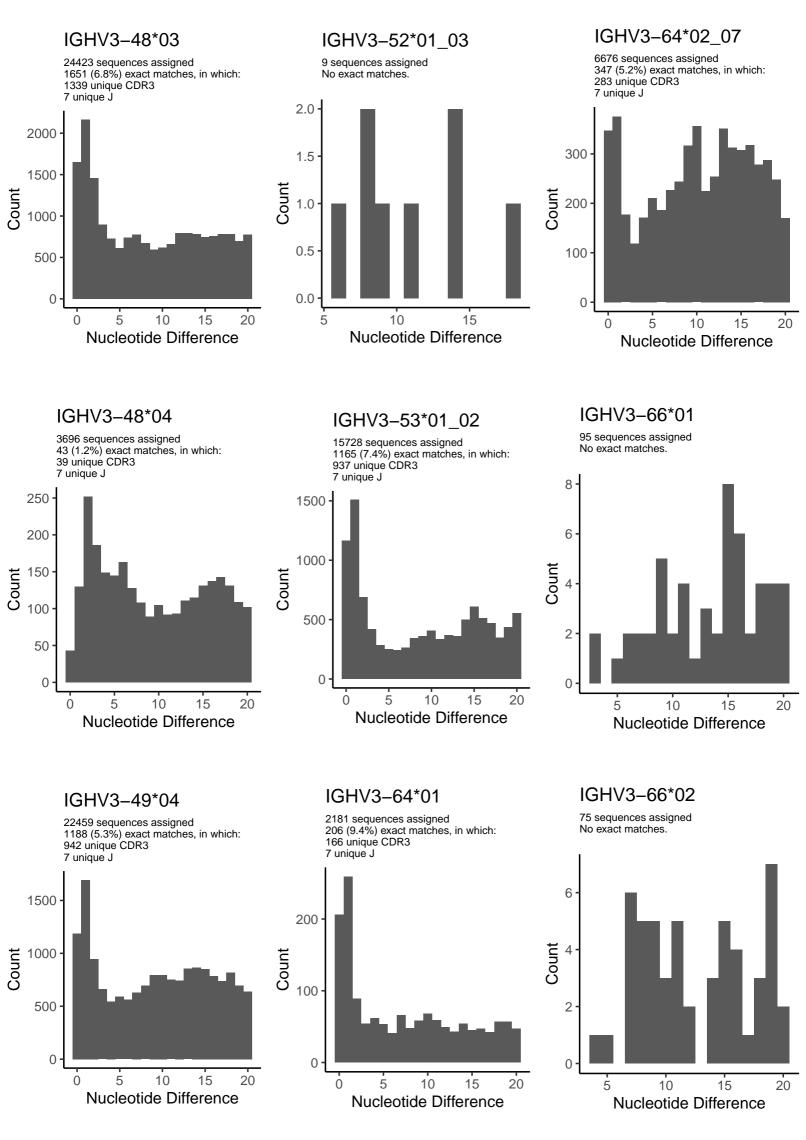
IGHV1-45*02 IGHV1-8*02_A250G IGHV1-2*02 56 sequences assigned 5 (8.9%) exact matches, in which: 17160 sequences assigned 2781 (16.2%) exact matches, in which: 4001 sequences assigned 1064 (26.6%) exact matches, in which: 3 unique CDR3 906 unique CDR3 2377 unique CDR3 2 unique J 7 unique J 7 unique J 900 2000 Count Count 600 2 1000 300 1 0 0 0 0 10 15 20 5 10 15 20 0 10 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV1-3*03 IGHV1-18*01 IGHV1-46*01 576 sequences assigned 78 (13.5%) exact matches, in which: 33887 sequences assigned 5059 (14.9%) exact matches, in which: 9628 sequences assigned 1367 (14.2%) exact matches, in which: 71 unique CDR3 4002 unique CDR3 1183 unique CDR3 6 unique J 7 unique J 7 unique J 80 60 4000 1000 Count Count 2000 500 20 0 0 0 10 15 20 0 10 15 20 10 15 0 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-58*02 IGHV1-24*01 IGHV1-8*02 119 sequences assigned 573 sequences assigned 7441 sequences assigned 1539 (20.7%) exact matches, in which: 19 (16%) exact matches, in which: 197 (34.4%) exact matches, in which: 19 unique CDR3 171 unique CDR3 1286 unique CDR3 4 unique J 7 unique J 7 unique J 200 1500 150 1000 Count Count 10 100 500 50 5 0 0 0 0 10 15 20 20 5 10 15 5 10 15 Nucleotide Difference **Nucleotide Difference Nucleotide Difference**

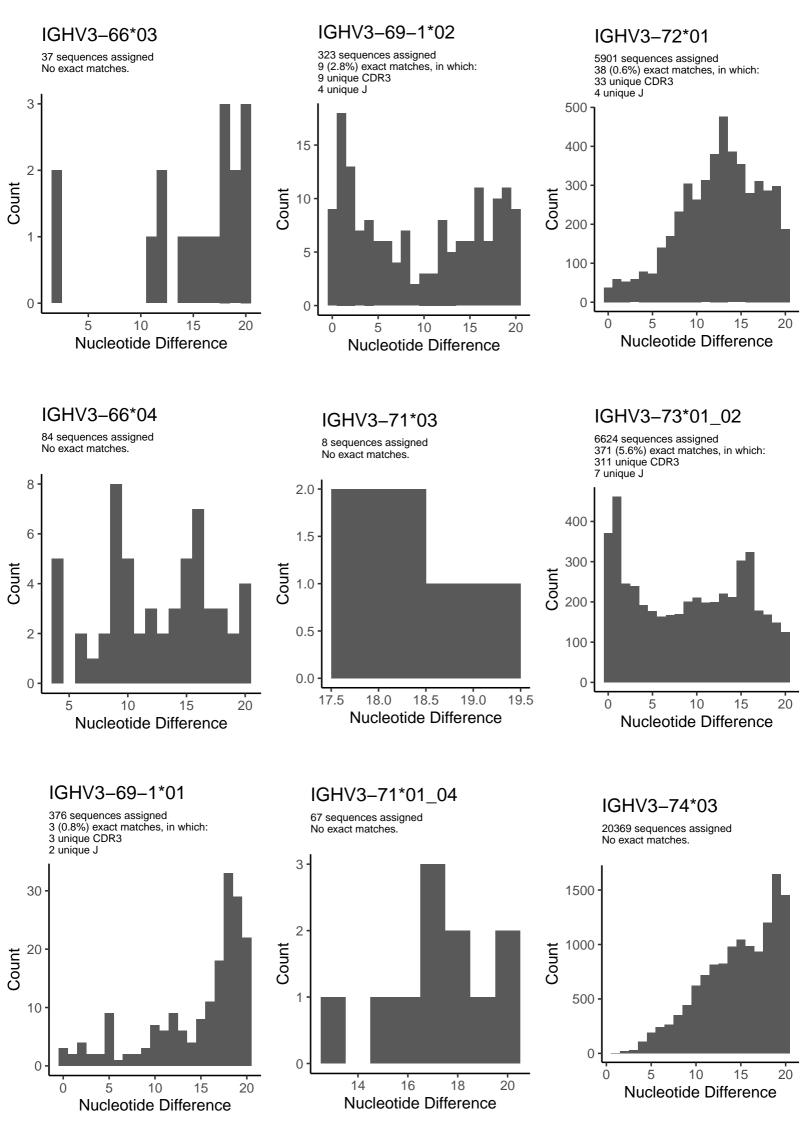


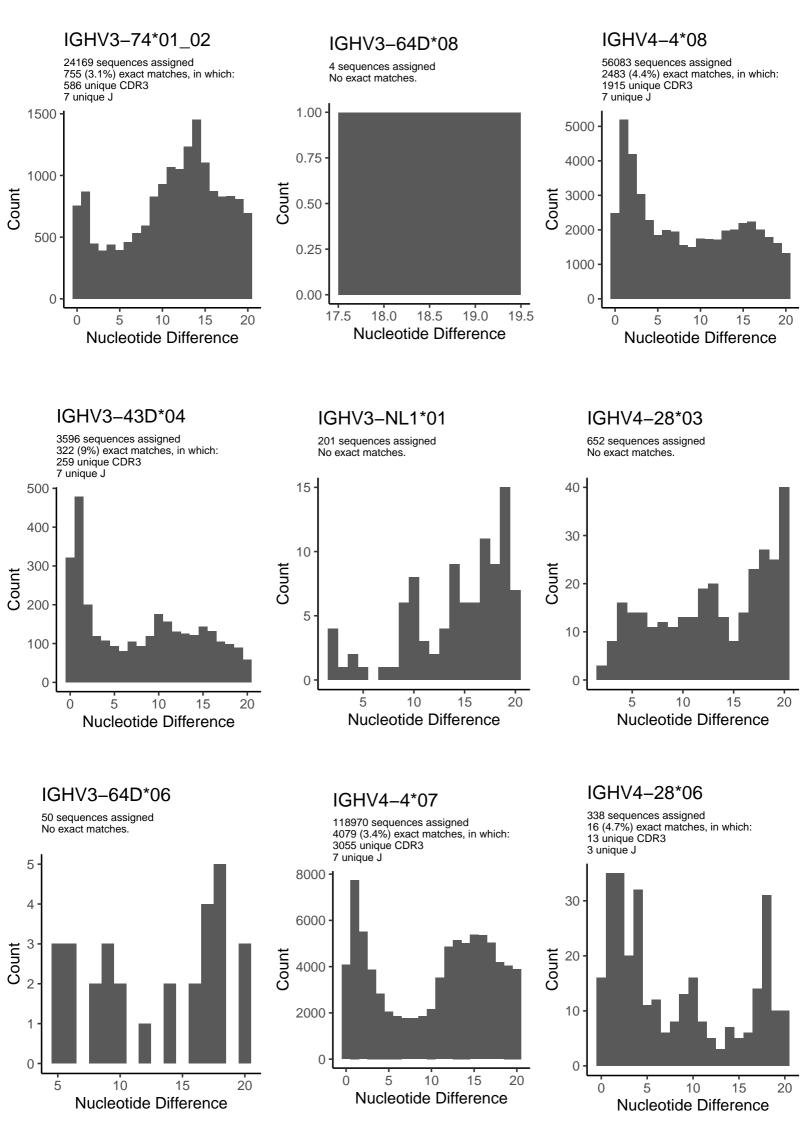


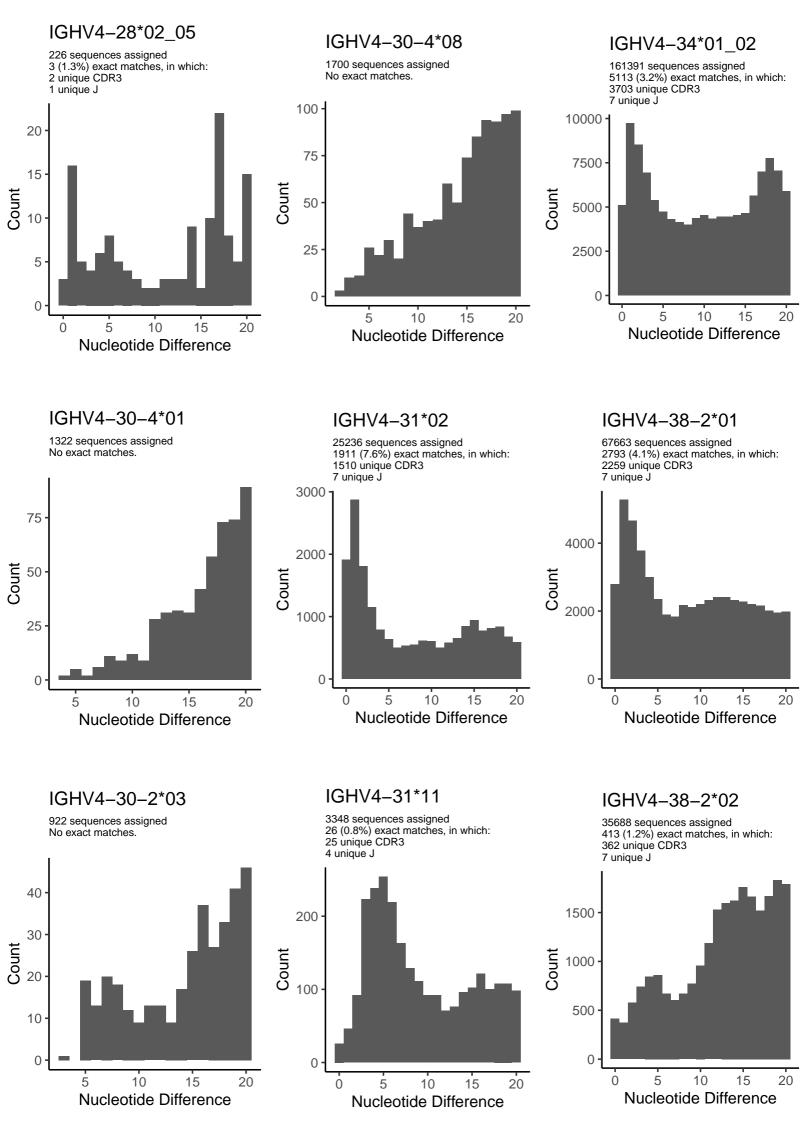


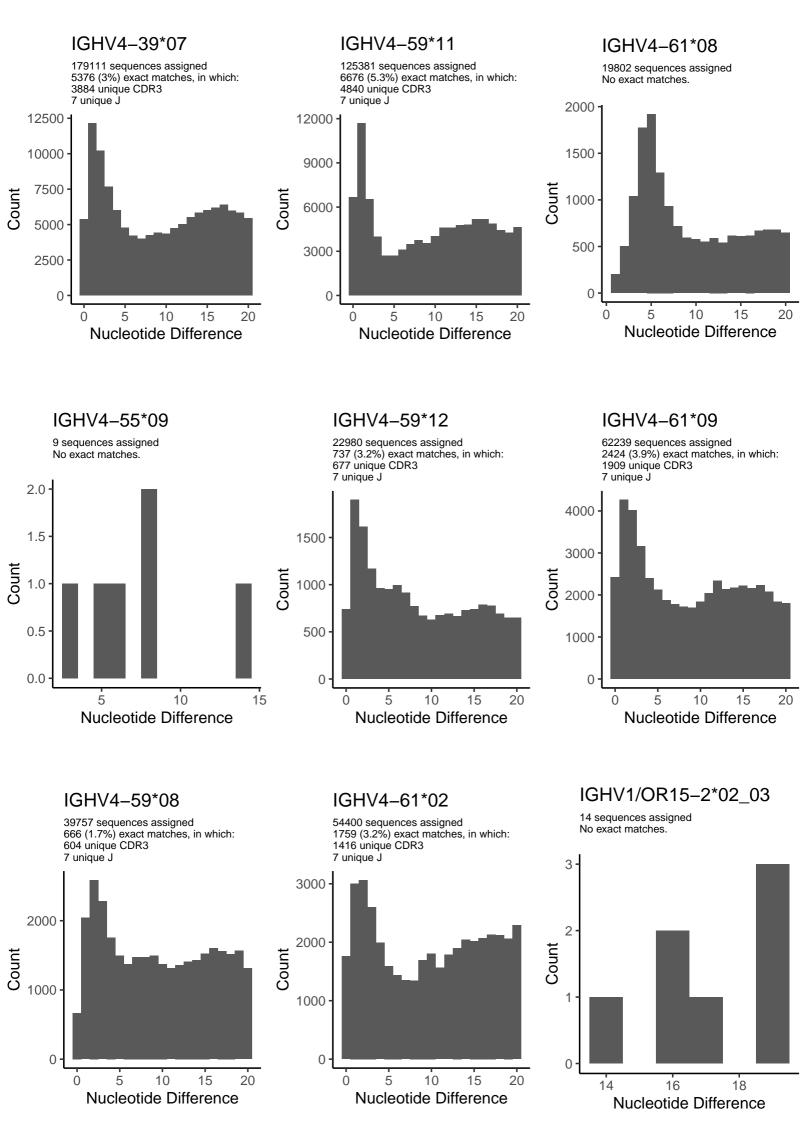


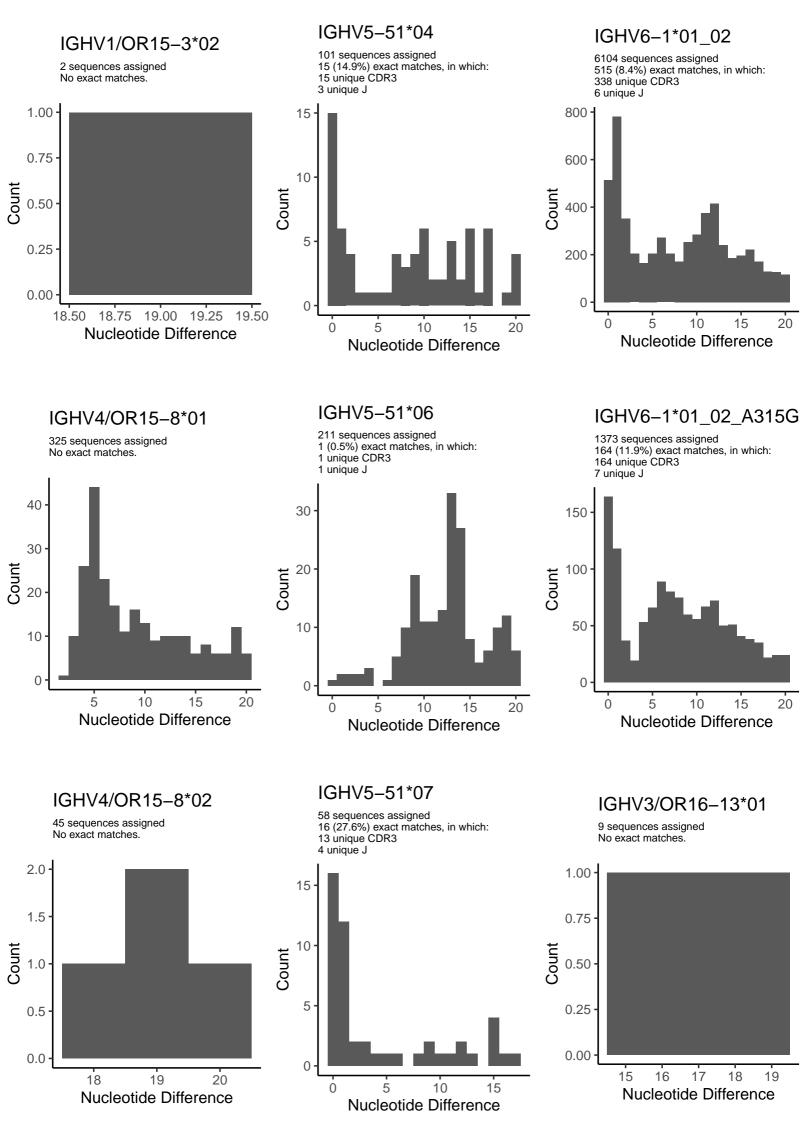






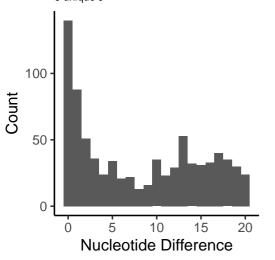


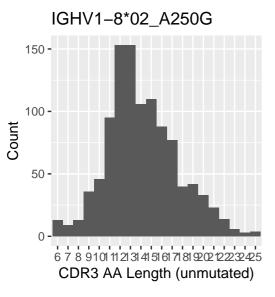


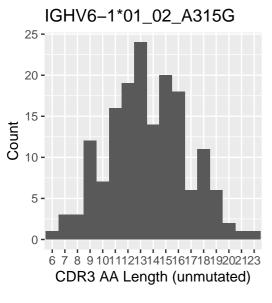


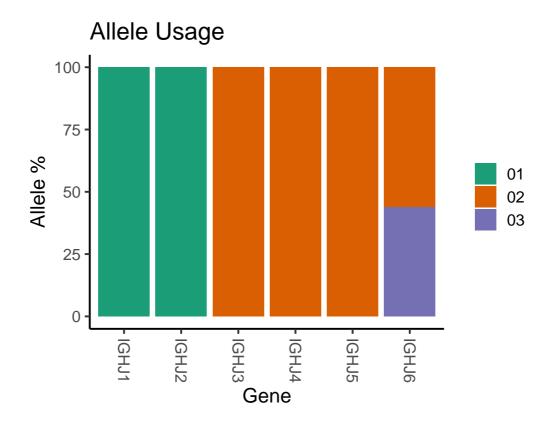
IGHV7-4-1*02

1001 sequences assigned 140 (14%) exact matches, in which: 128 unique CDR3 6 unique J









Sequence Count by IGHJ6 allele usage

