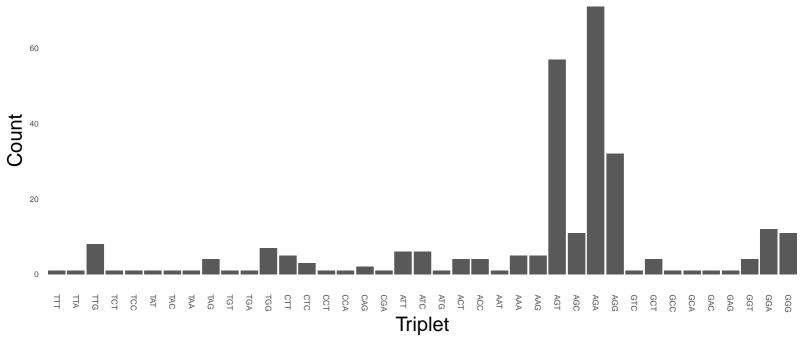
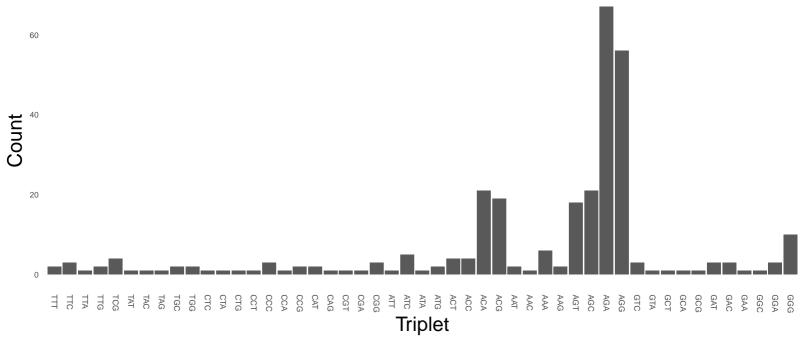


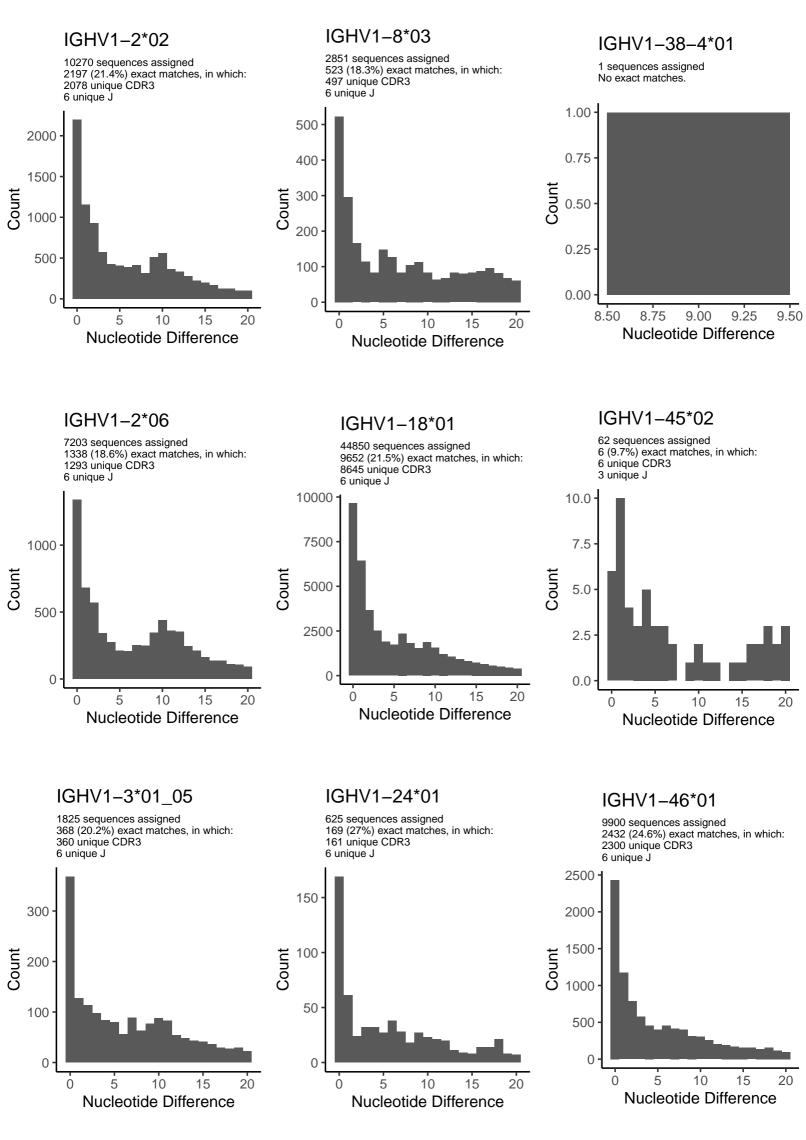
Position

IGHV3-72*01_T186C- Final 3 nucleotides as a triplet

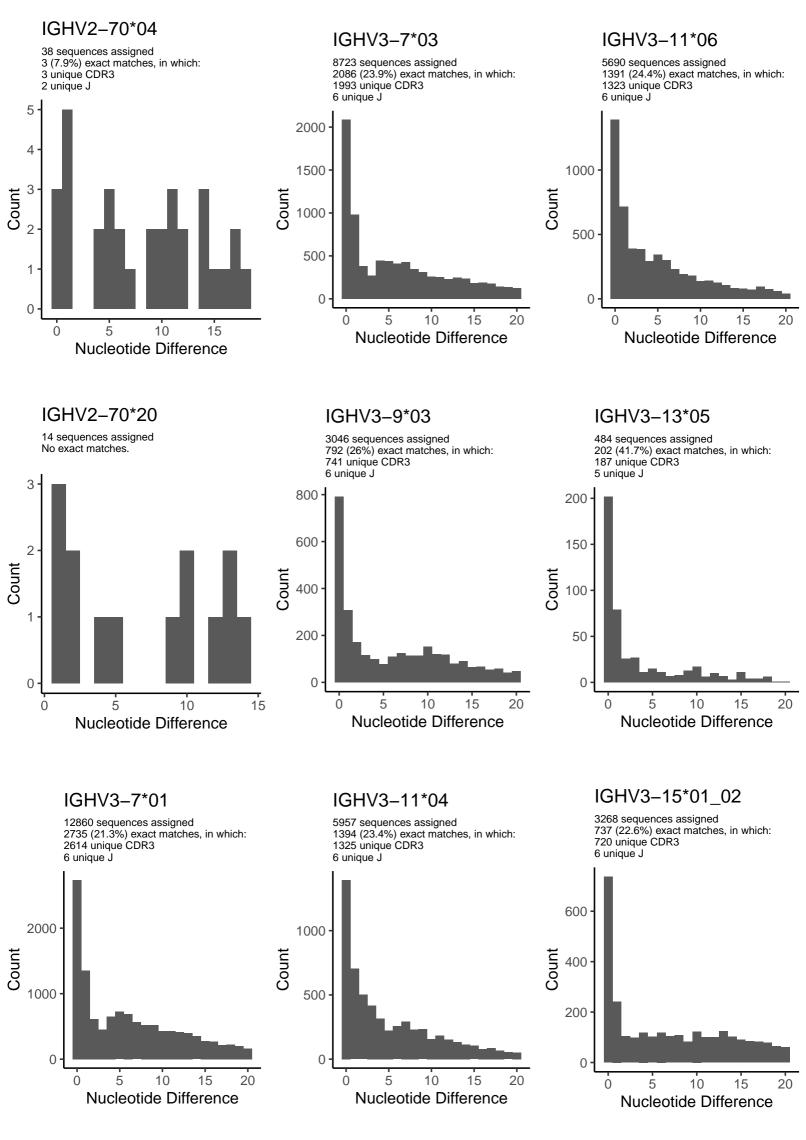


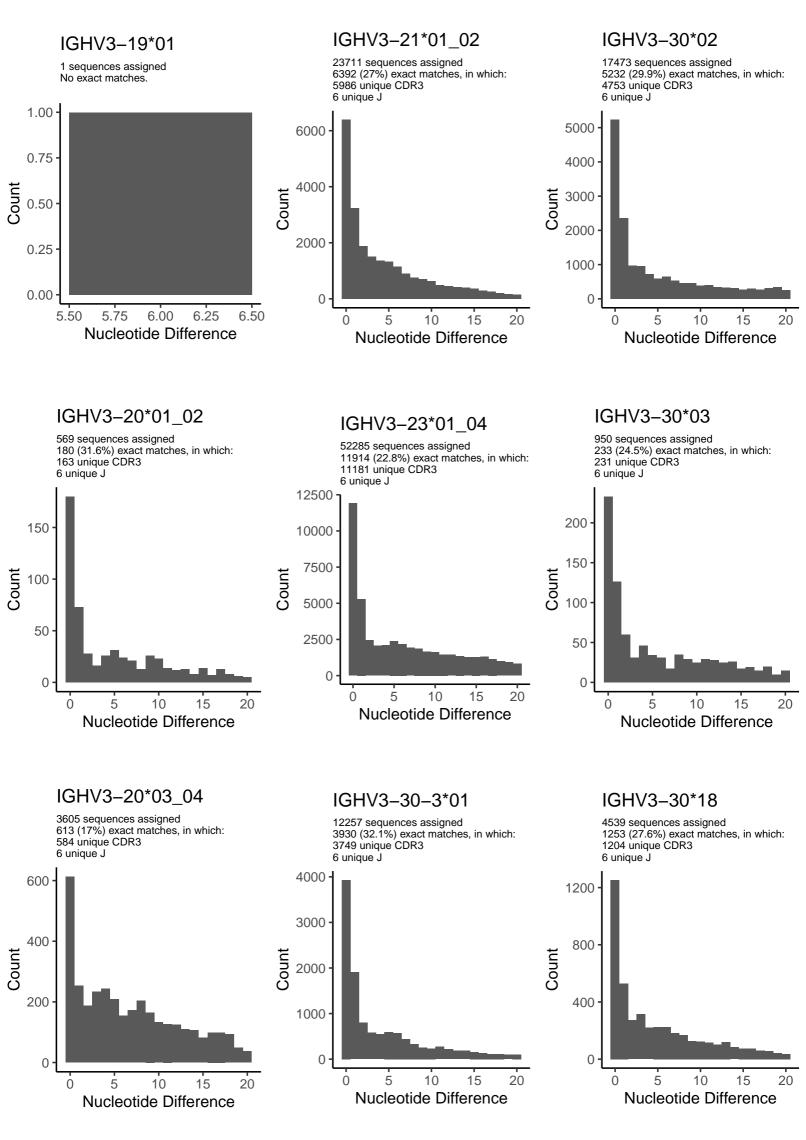
IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet

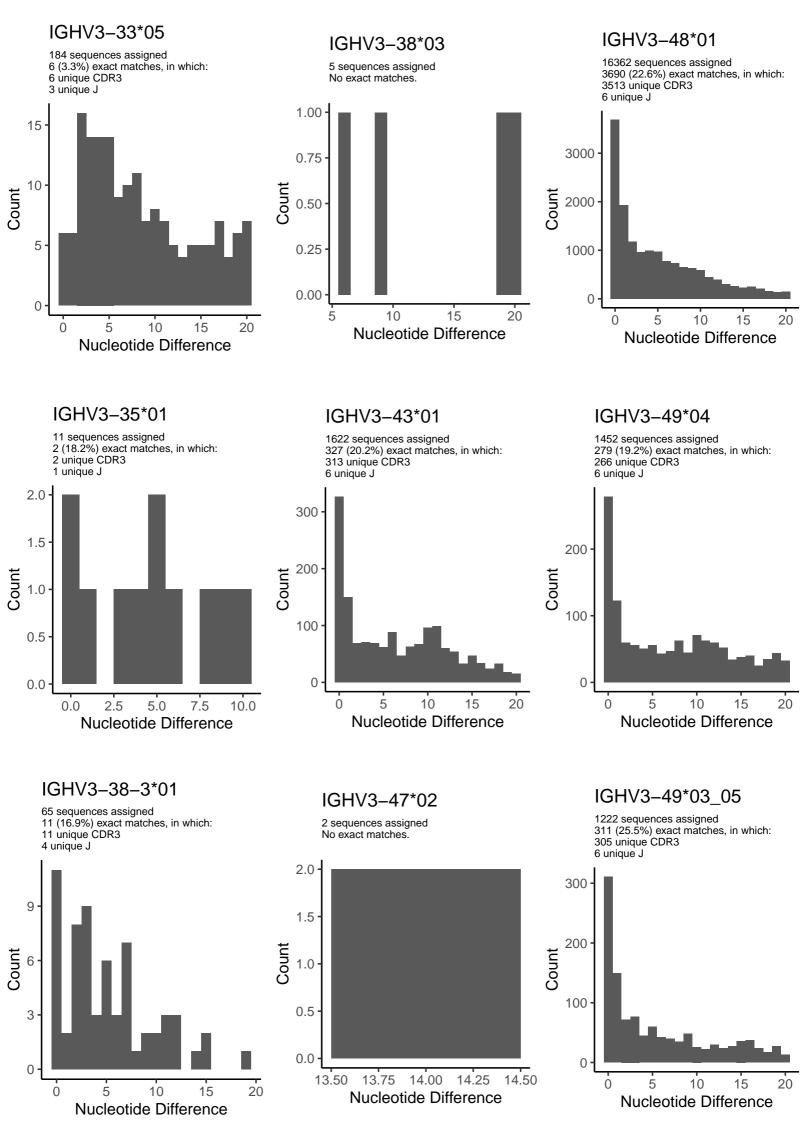


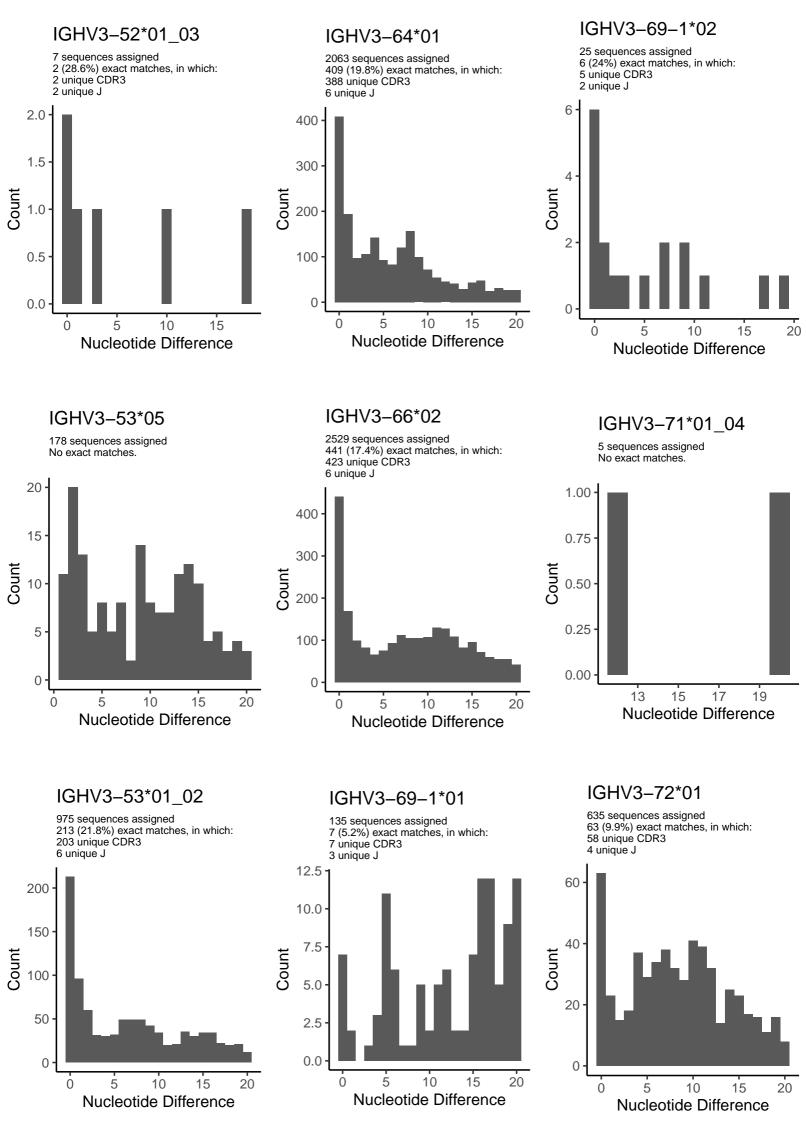


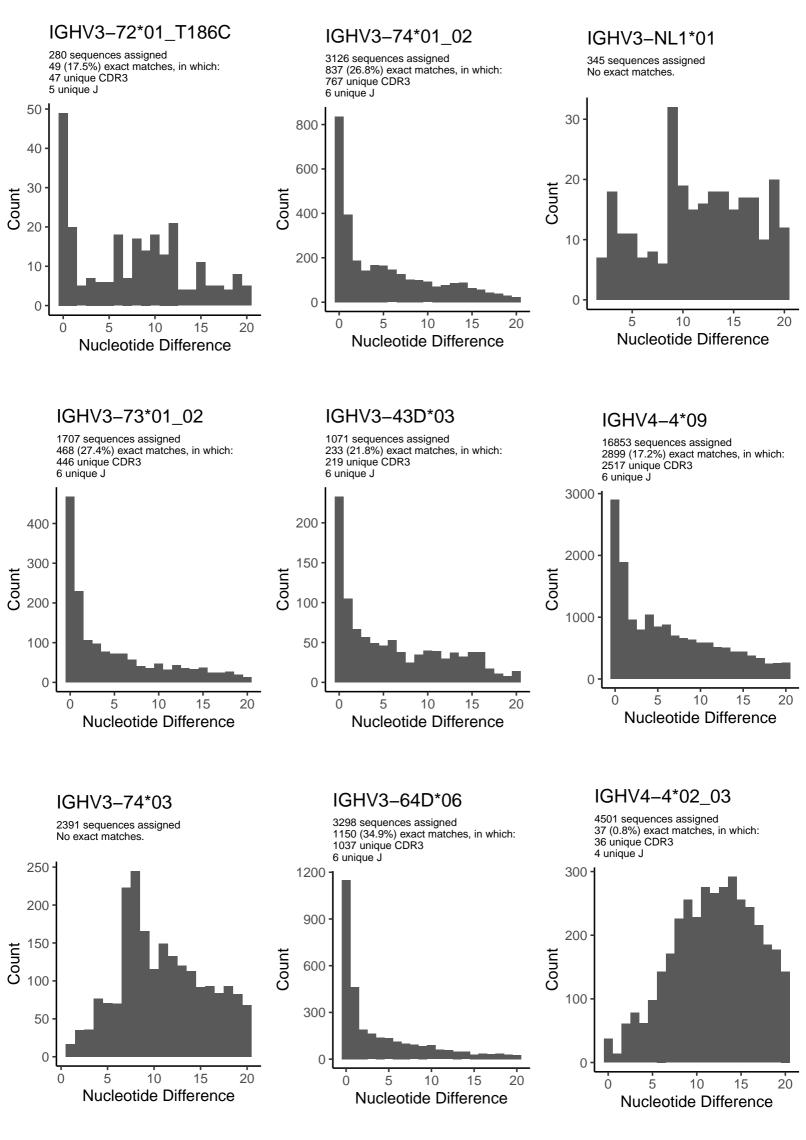
IGHV1-58*02 IGHV2-5*01 IGHV1-69*05 325 sequences assigned 79 (24.3%) exact matches, in which: 110 sequences assigned 12632 sequences assigned 3474 (27.5%) exact matches, in which: 17 (15.5%) exact matches, in which: 77 unique CDR3 17 unique CDR3 3323 unique CDR3 5 unique J 6 unique J 6 unique J 80 20 3000 60 15 Count Count 2000 10 1000 20 5 0 0 0 0 10 15 20 0 10 15 20 0 10 15 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV2-5*02 IGHV1-69*01_12_13 IGHV1-68*02_03 97 sequences assigned 8155 sequences assigned 2152 (26.4%) exact matches, in which: 3 sequences assigned 10 (10.3%) exact matches, in which: No exact matches. 10 unique CDR3 2065 unique CDR3 4 unique J 6 unique J 1.00 -2000 20 0.75 1500 15 0.50 Count 1000 10 0.25 500 5 0.00 0 0 0 5 10 15 0 10 20 10 20 0 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-69-2*01 IGHV1-69*15_18 IGHV2-26*01 197 sequences assigned 5800 sequences assigned 1647 (28.4%) exact matches, in which: 5 sequences assigned 16 (8.1%) exact matches, in which: No exact matches. 16 unique CDR3 1588 unique CDR3 4 unique J 6 unique J 2.0 15 1500 1.5 1000 Count 1.0 500 5 0.5 0 0.0 0 10 15 20 12 0 10 15 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**

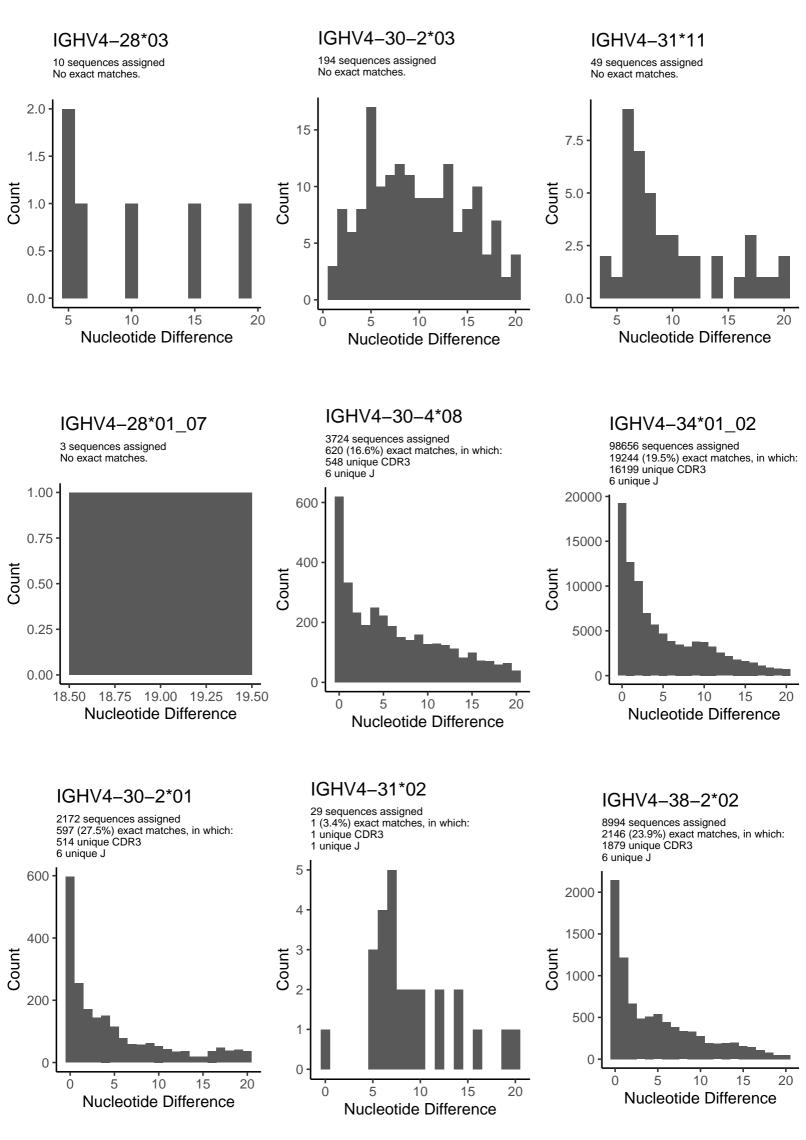


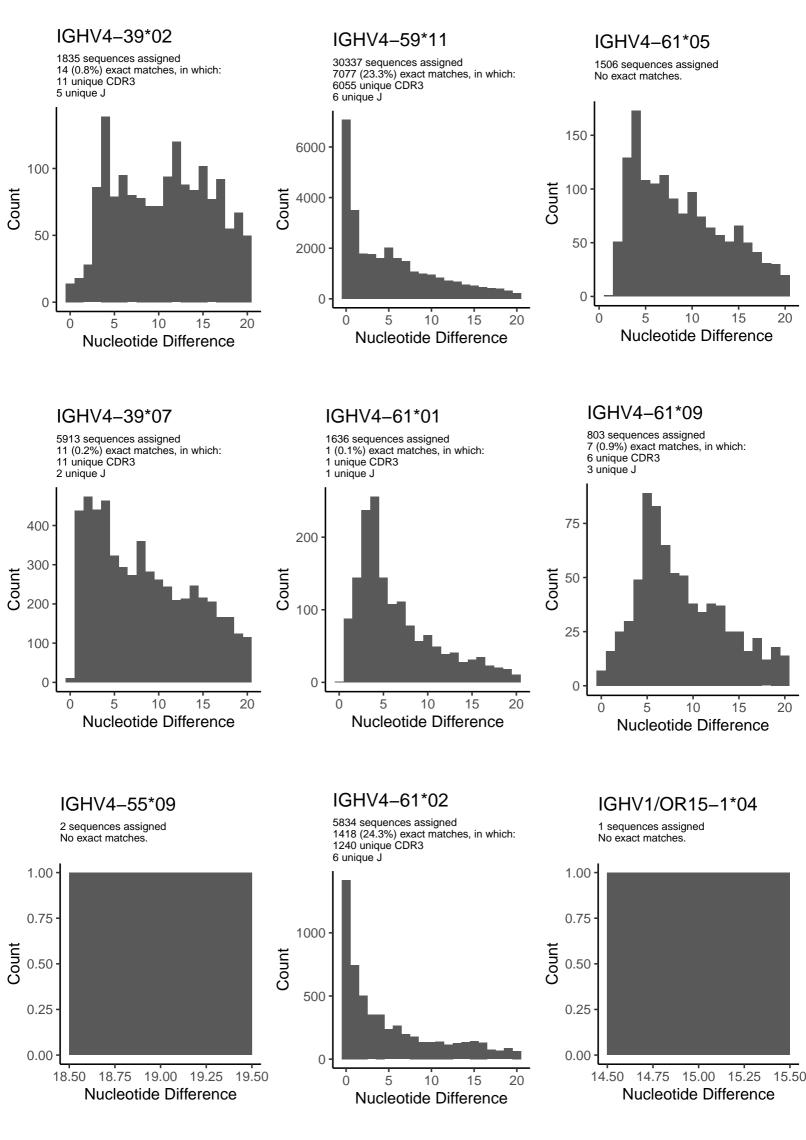


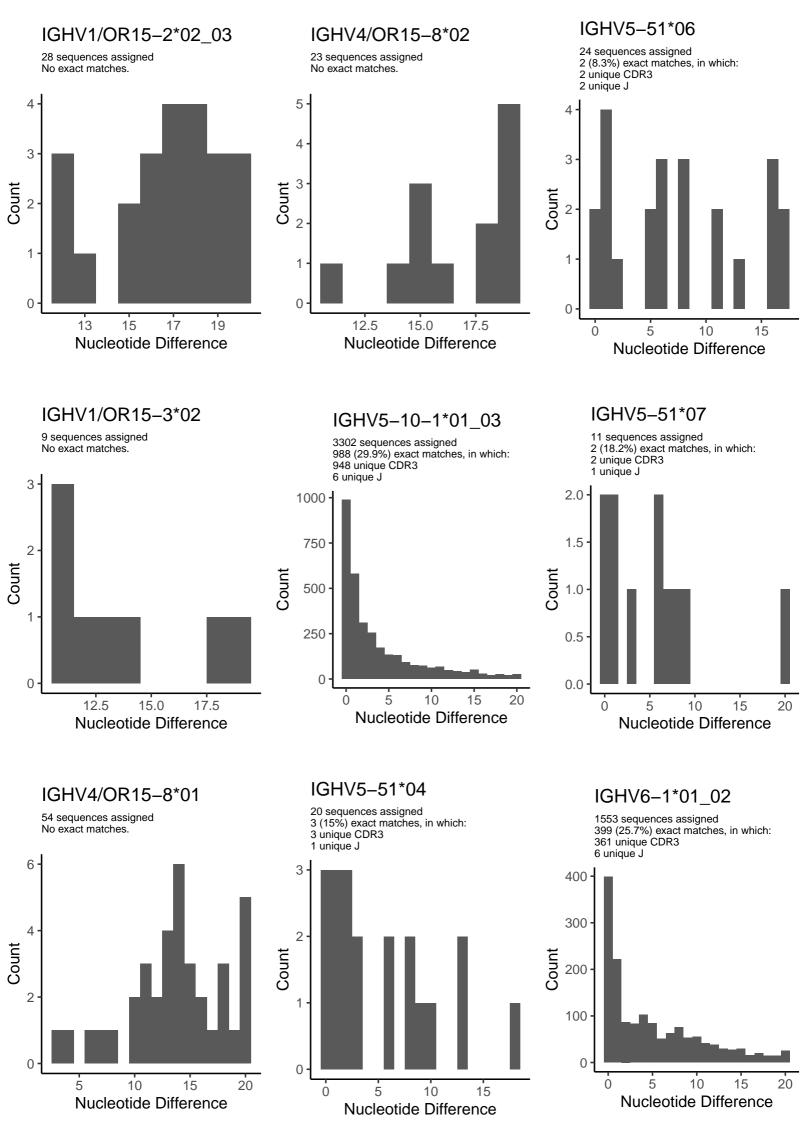






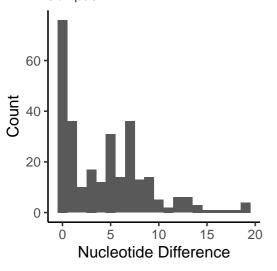






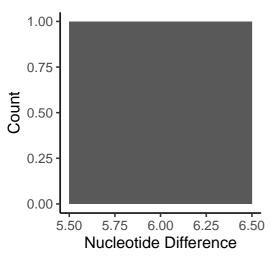
IGHV6-1*01_02_A315G

295 sequences assigned 76 (25.8%) exact matches, in which: 76 unique CDR3 6 unique J



IGHV3/OR16-13*01

2 sequences assigned No exact matches.



IGHV7-4-1*02

346 sequences assigned 82 (23.7%) exact matches, in which: 82 unique CDR3 5 unique J

