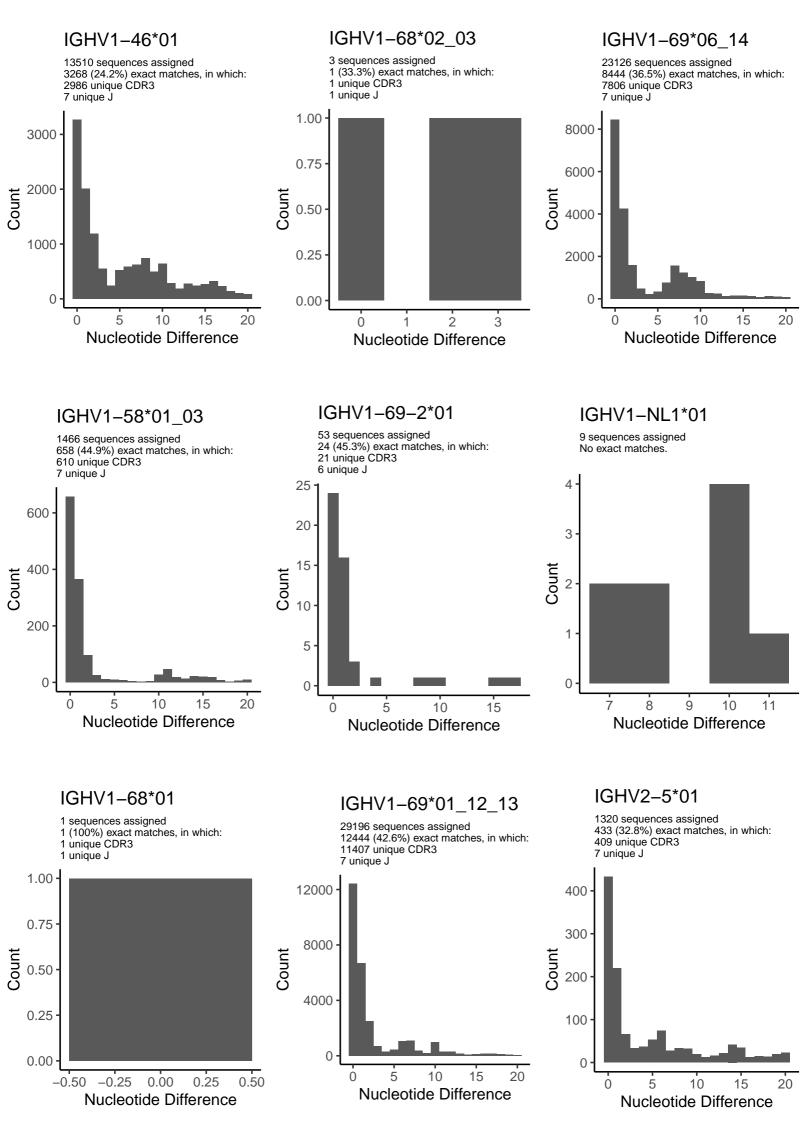
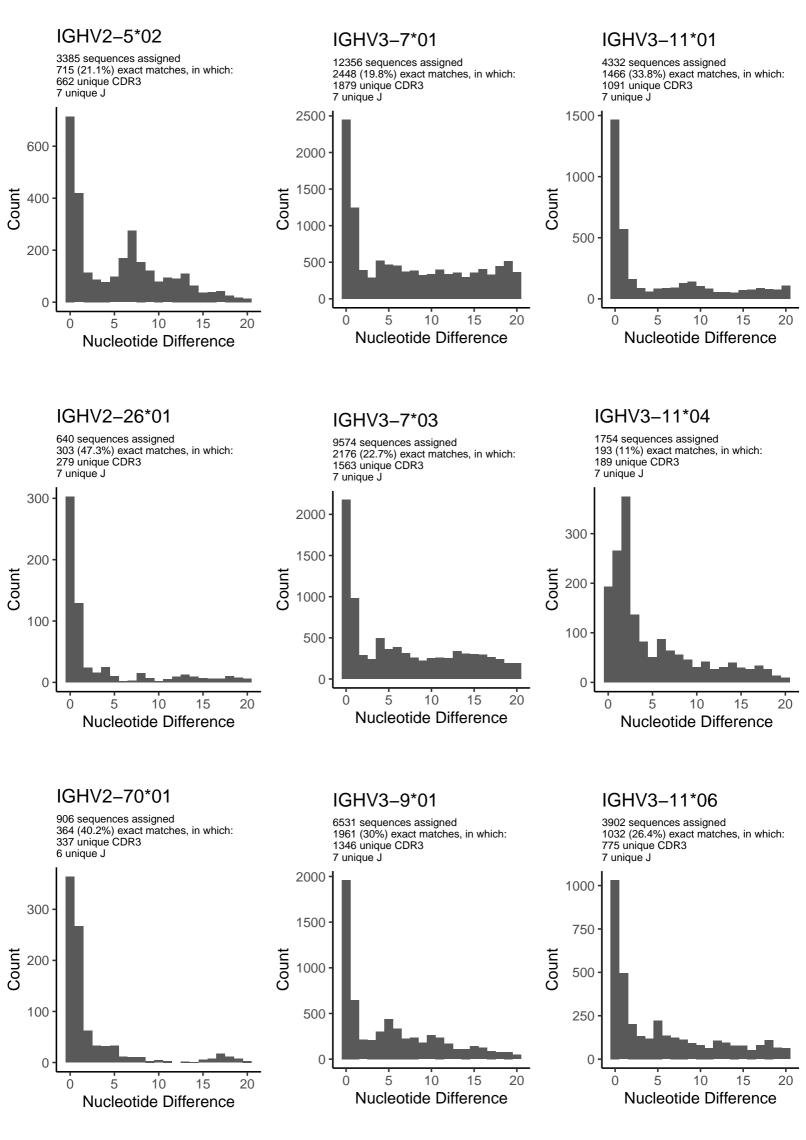
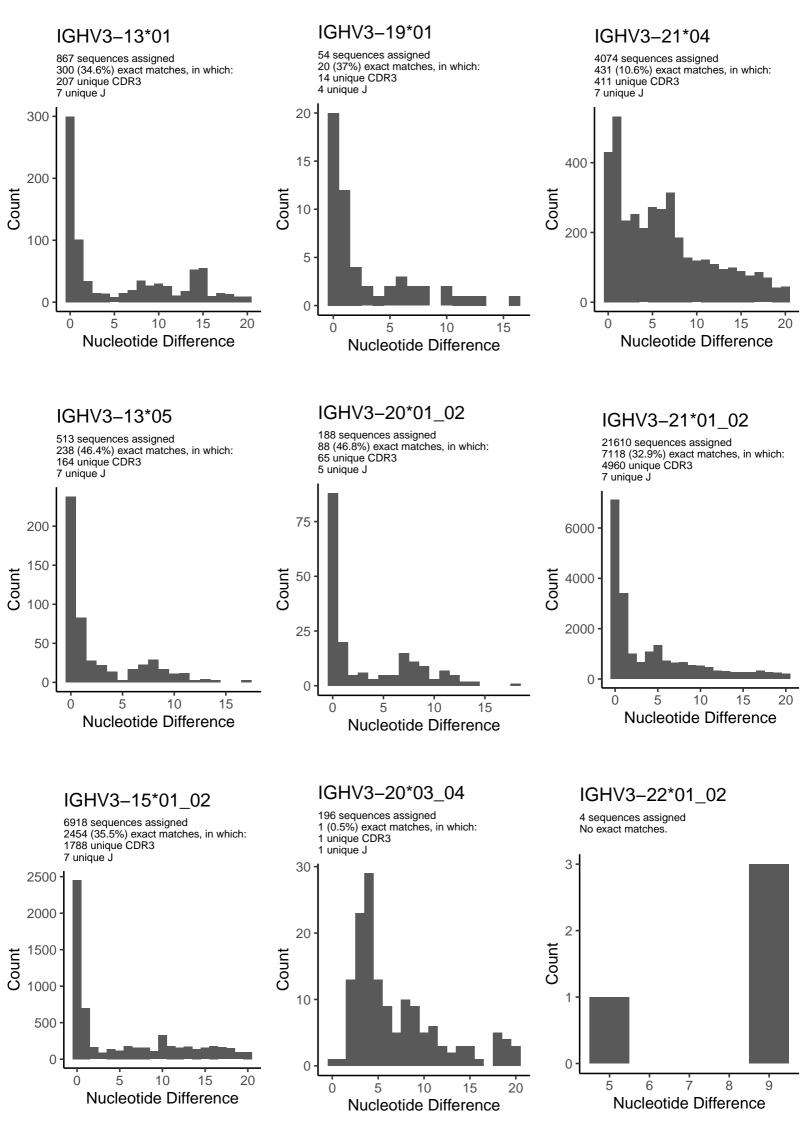
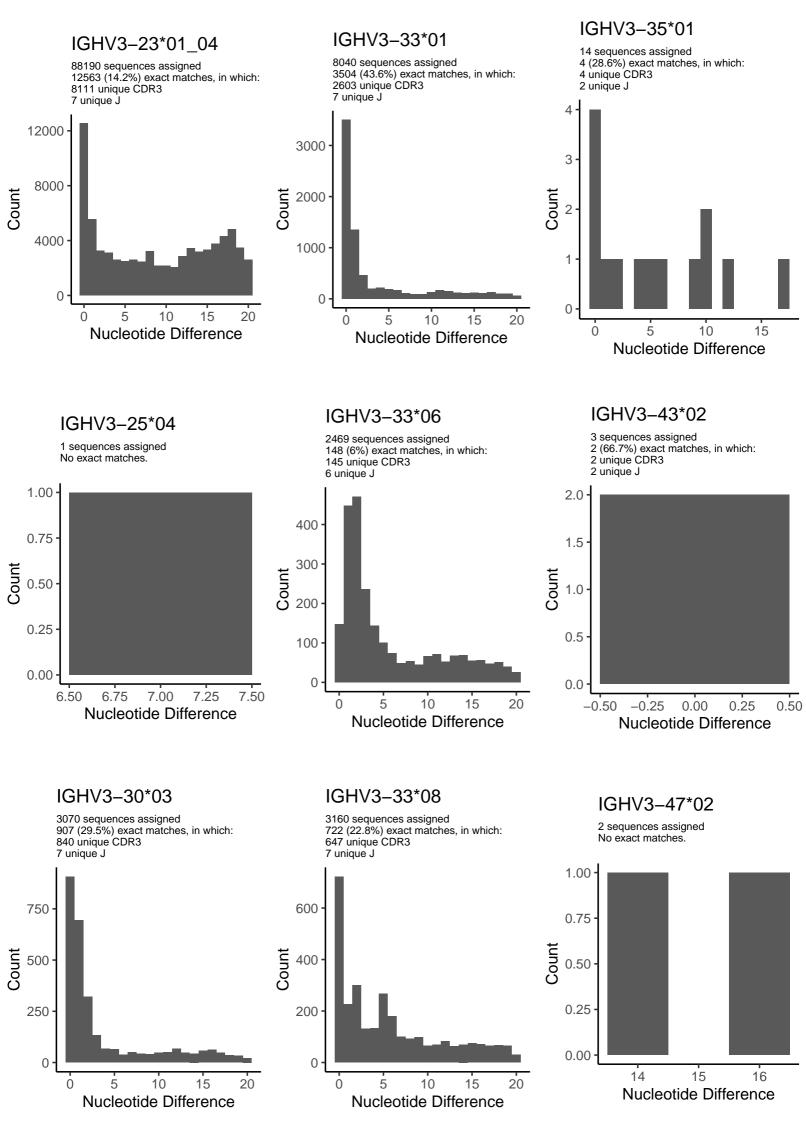
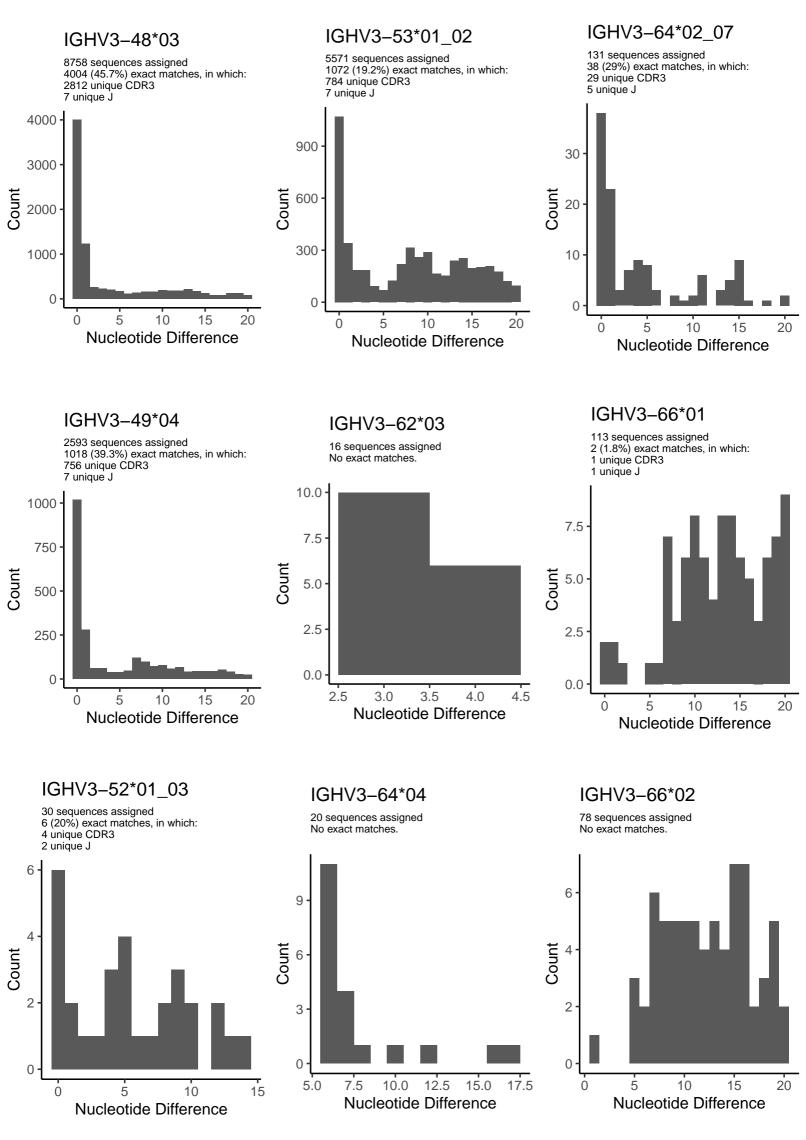
IGHV1-2*02 IGHV1-8*01 IGHV1-18*04 24007 sequences assigned 4389 (18.3%) exact matches, in which: 15897 sequences assigned 5368 (33.8%) exact matches, in which: 7260 sequences assigned 2494 (34.4%) exact matches, in which: 3955 unique CDR3 2305 unique CDR3 4950 unique CDR3 7 unique J 7 unique J 7 unique J 2500 4000 2000 4000 3000 1500 Count 2000 1000 2000 1000 500 0 0 0 10 0 15 0 10 15 20 0 10 15 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV1-8*02 IGHV1-2*04 IGHV1-24*01 3076 sequences assigned 5 (0.2%) exact matches, in which: 3881 sequences assigned 1362 (35.1%) exact matches, in which: 4512 sequences assigned 1814 (40.2%) exact matches, in which: 5 ùniqué CDR3 1252 unique CDR3 1643 unique CDR3 3 unique J 7 unique J 7 unique J 600 -1500 1000 400 Count Count 1000 500 200 500 0 10 0 0 10 15 20 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-45*02 IGHV1-3*01_05 IGHV1-18*01 77 sequences assigned 18429 sequences assigned 5376 (29.2%) exact matches, in which: 4790 sequences assigned 18 (23.4%) exact matches, in which: 1713 (35.8%) exact matches, in which: 16 unique CDR3 4977 unique CDR3 1532 unique CDR3 5 unique J 7 unique J 7 unique J 1500 15 4000 1000 Count 10 2000 500 5 0 0 0 10 15 20 0 10 15 20 0 0 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

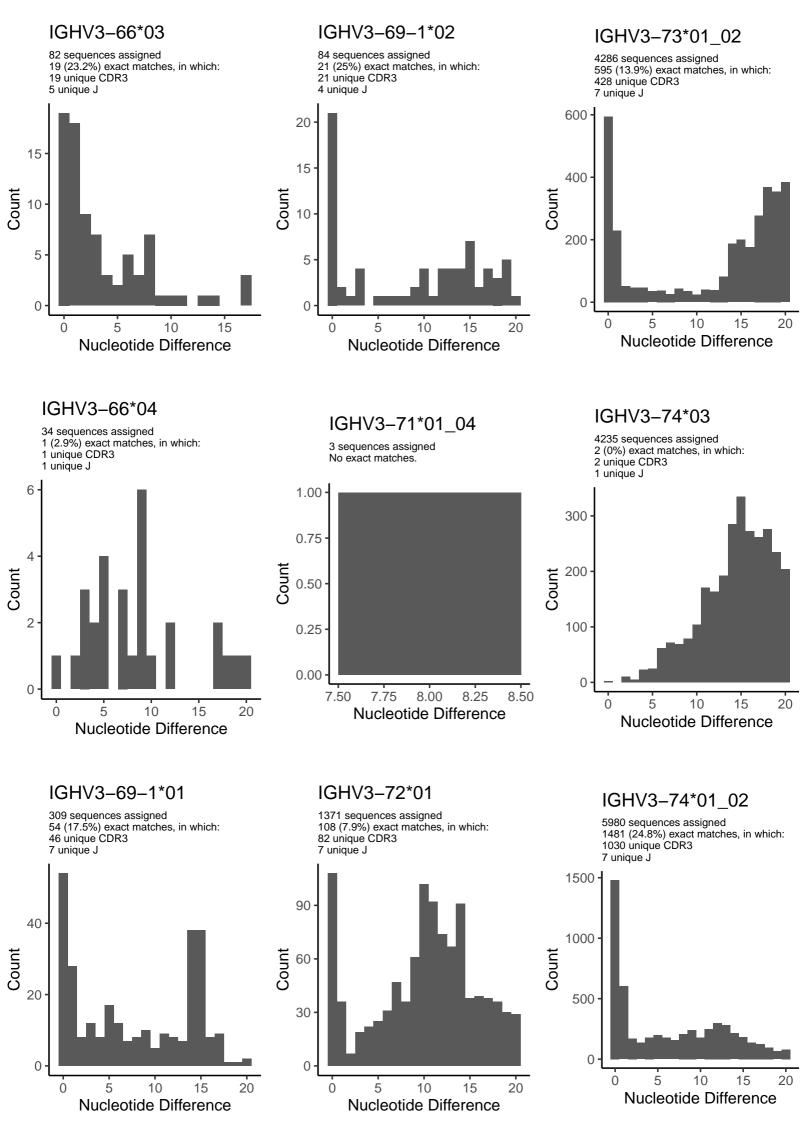


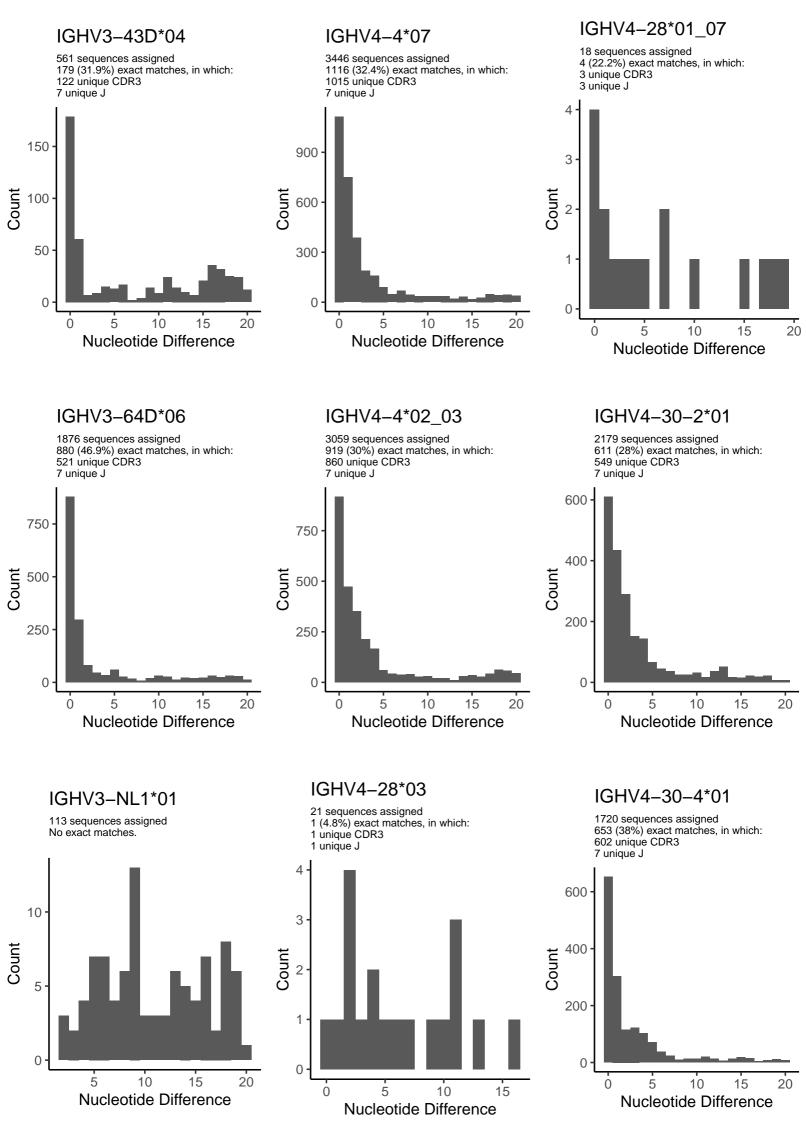


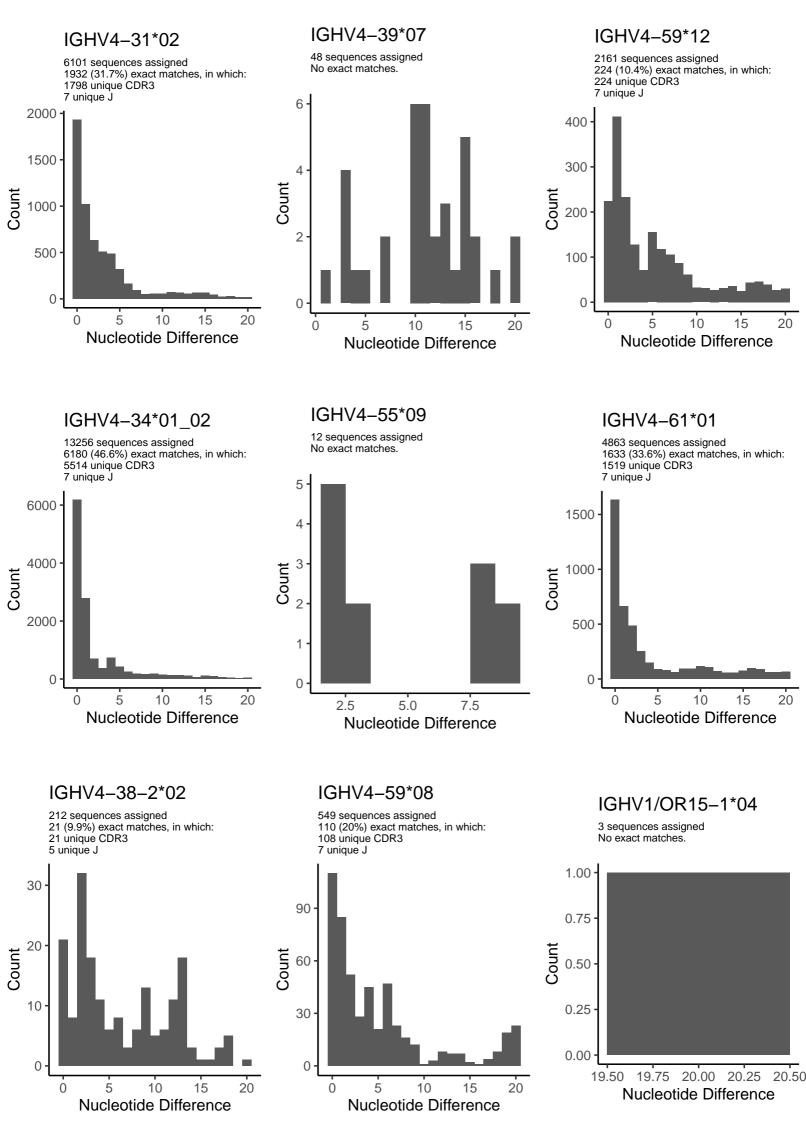


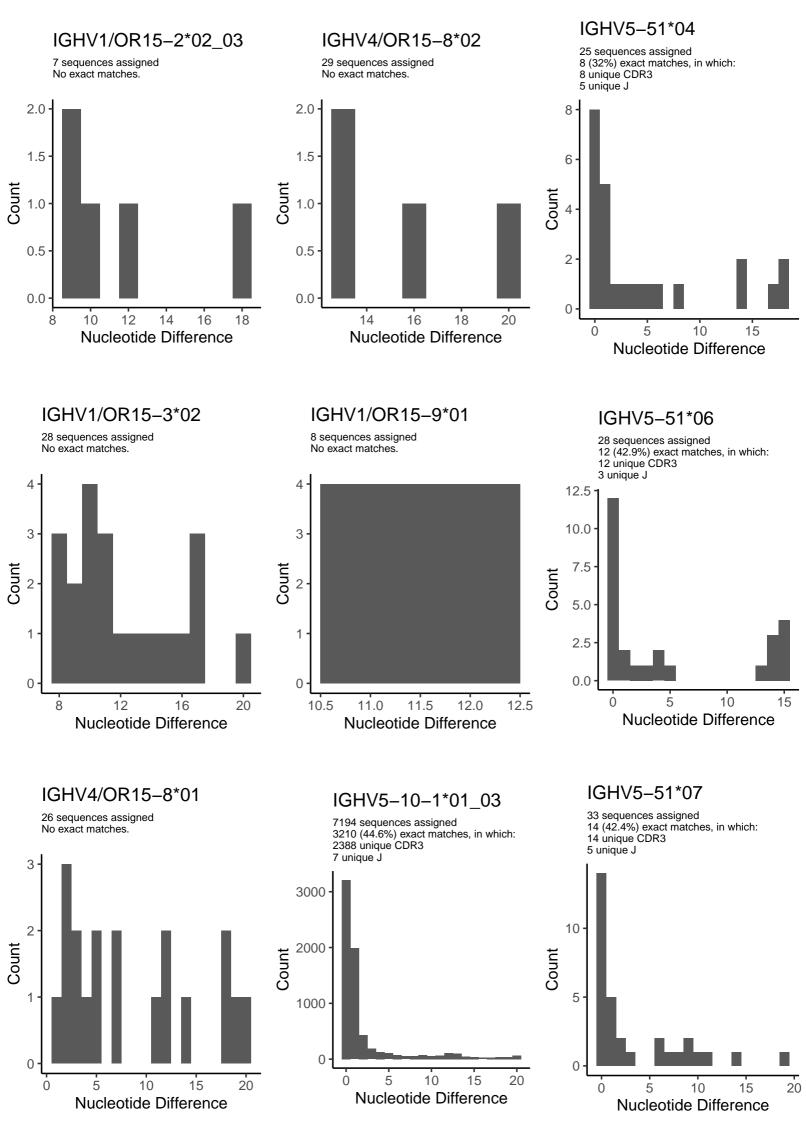


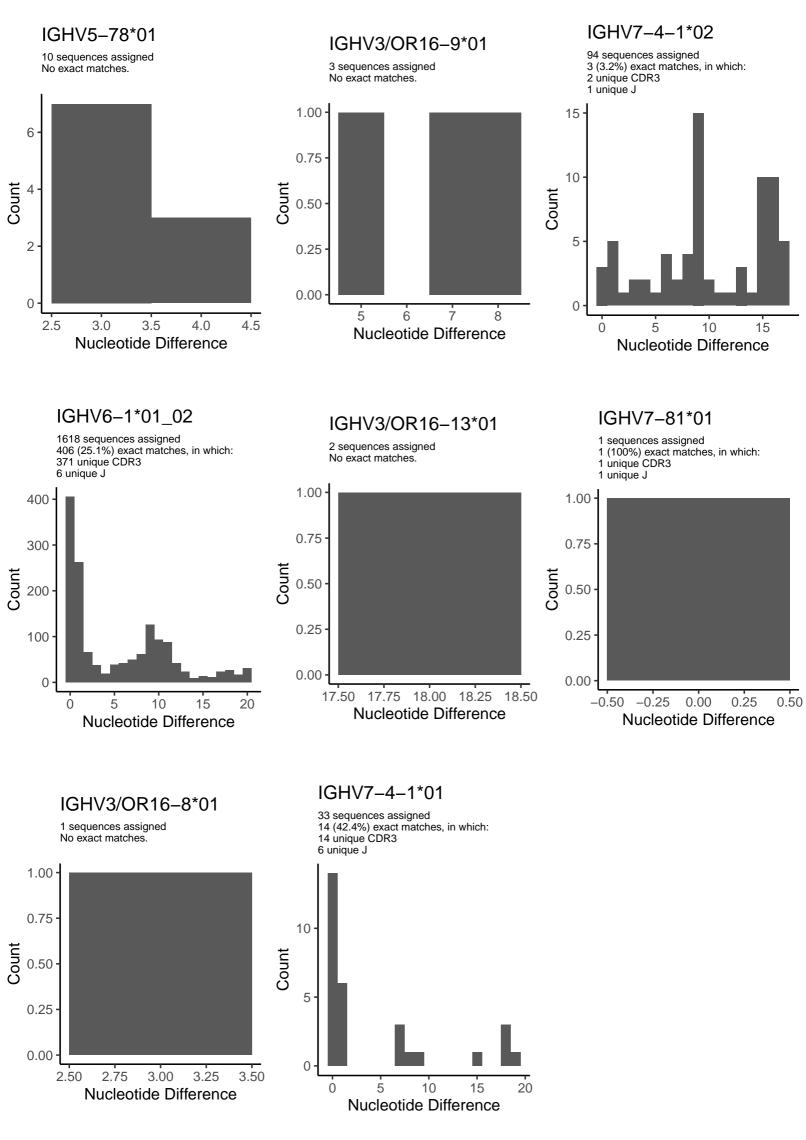


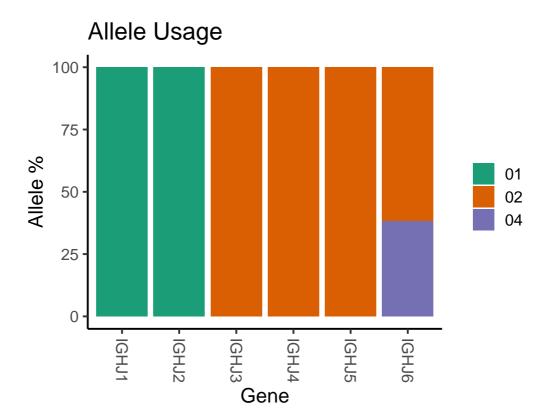




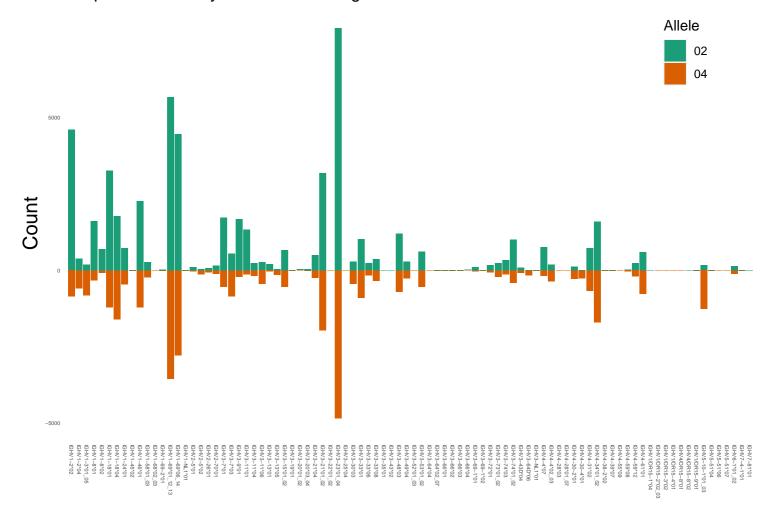








Sequence Count by IGHJ6 allele usage



lovel sequence(s) IGHV3-69-1*01_G80A_G106A_A107C_C108T_C111T_T112A_A113C_C164G_G188C_C192G_T210A_A214C_A245G_A254G are not listed in the genotype and will be ignored.	