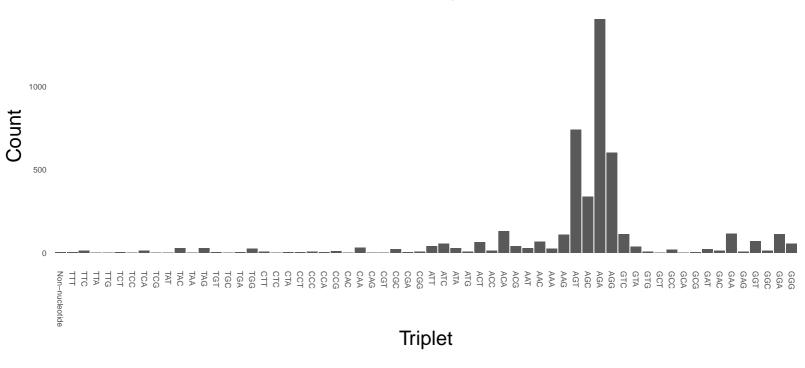
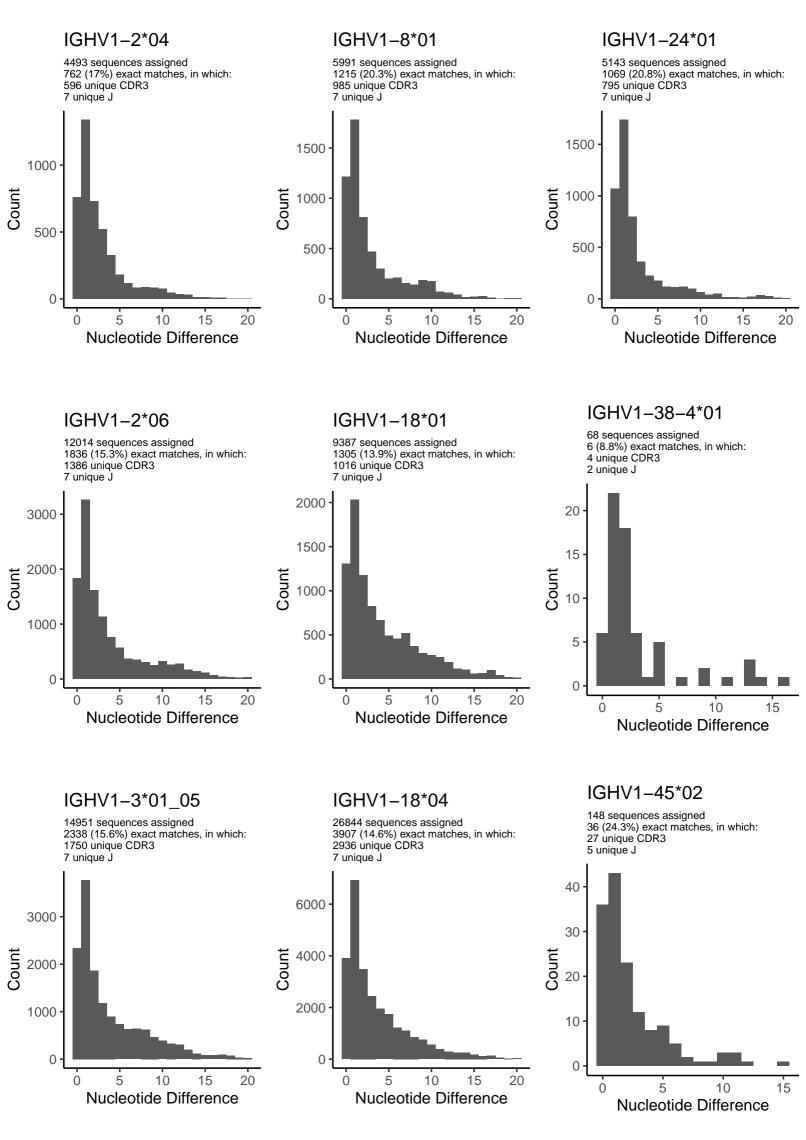
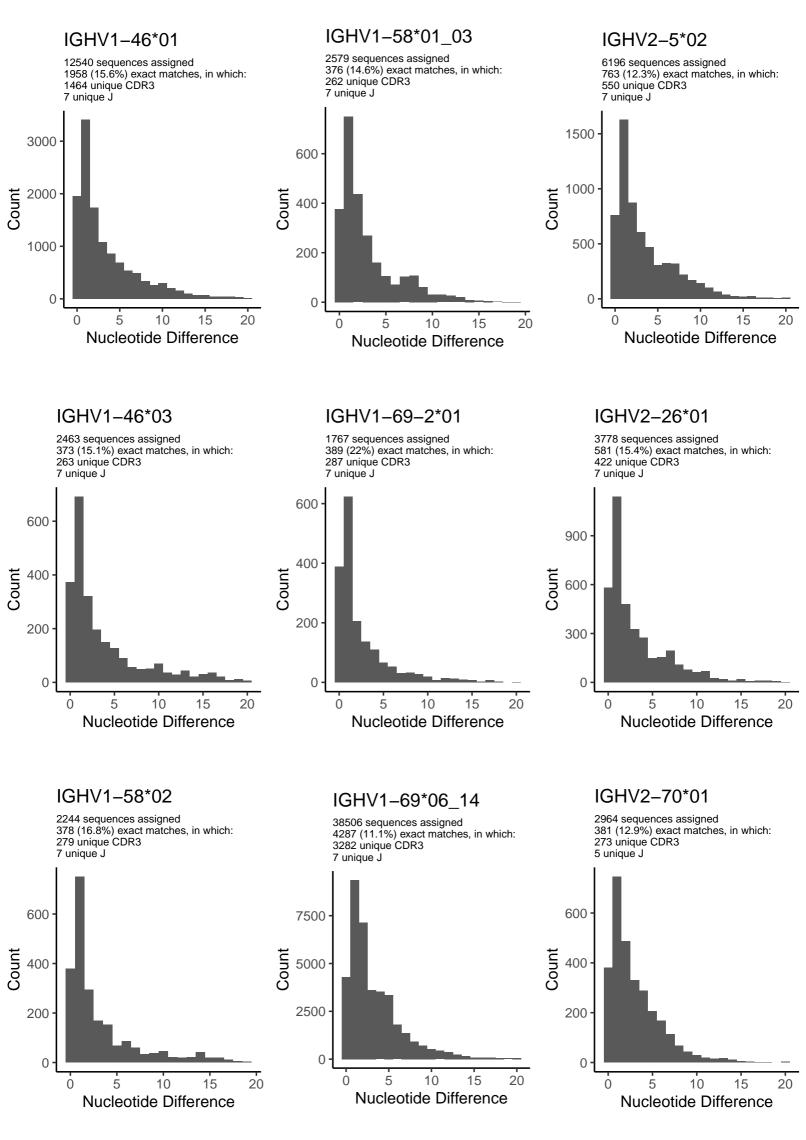


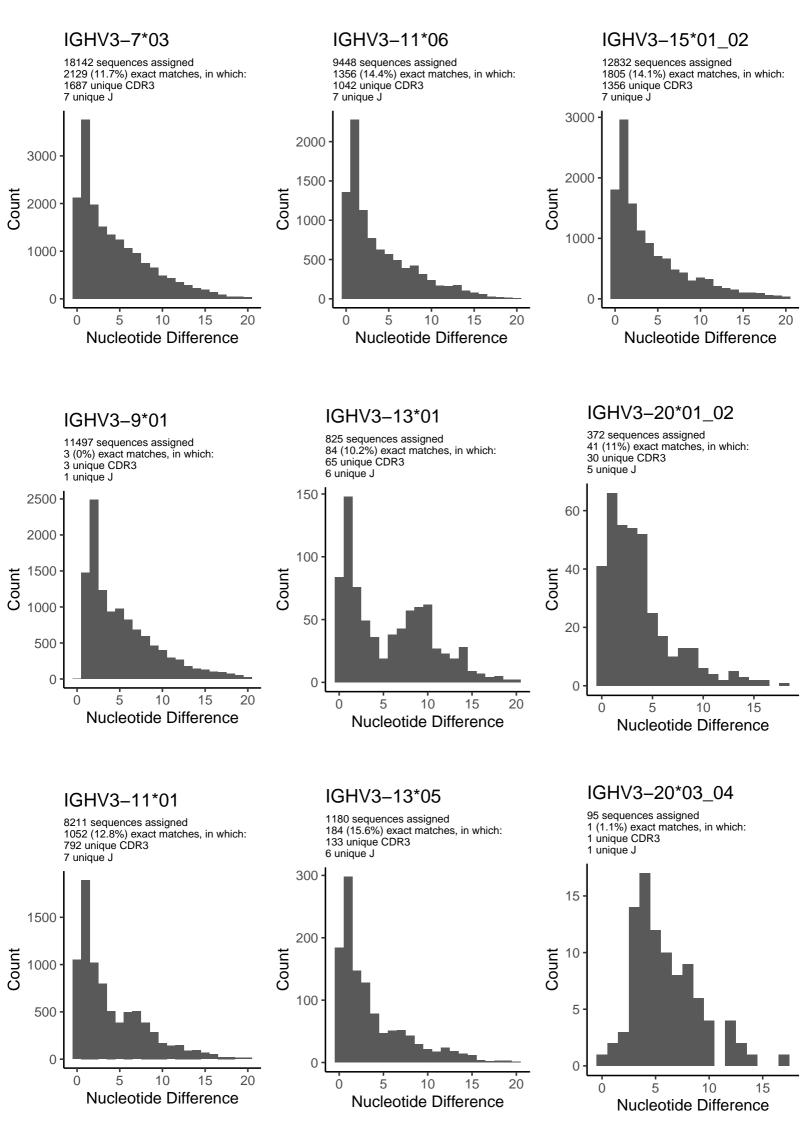


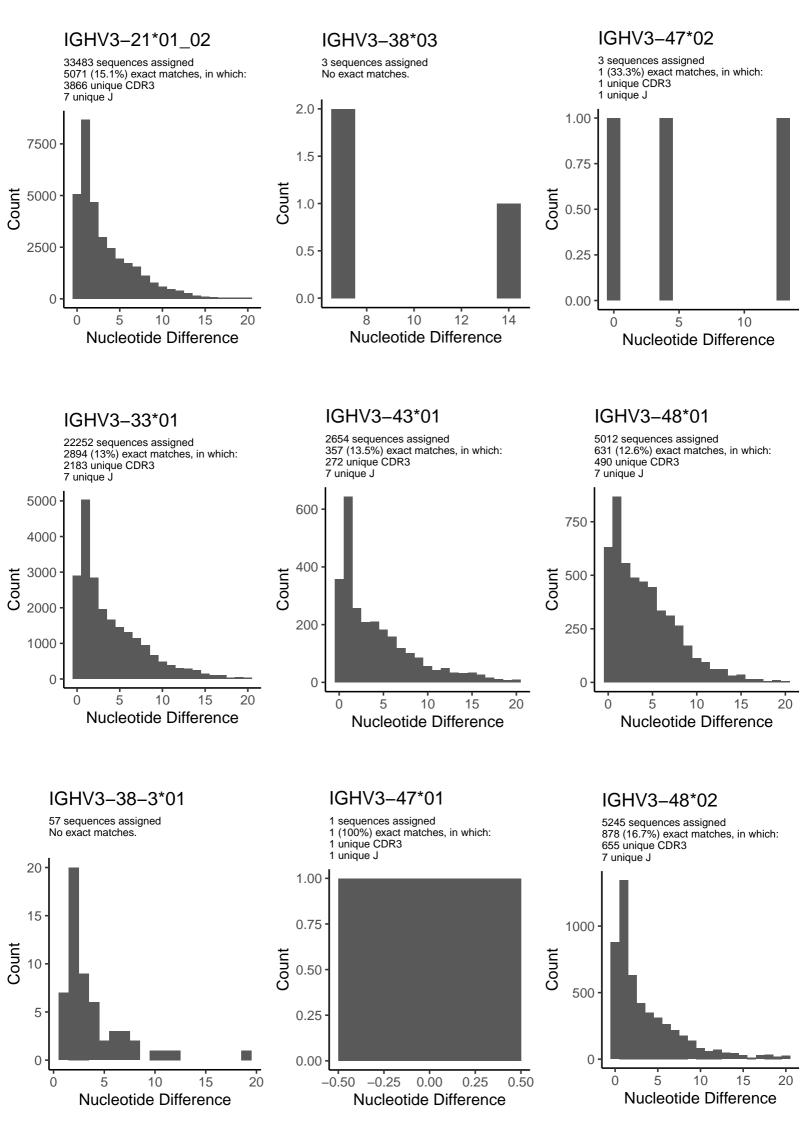
IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

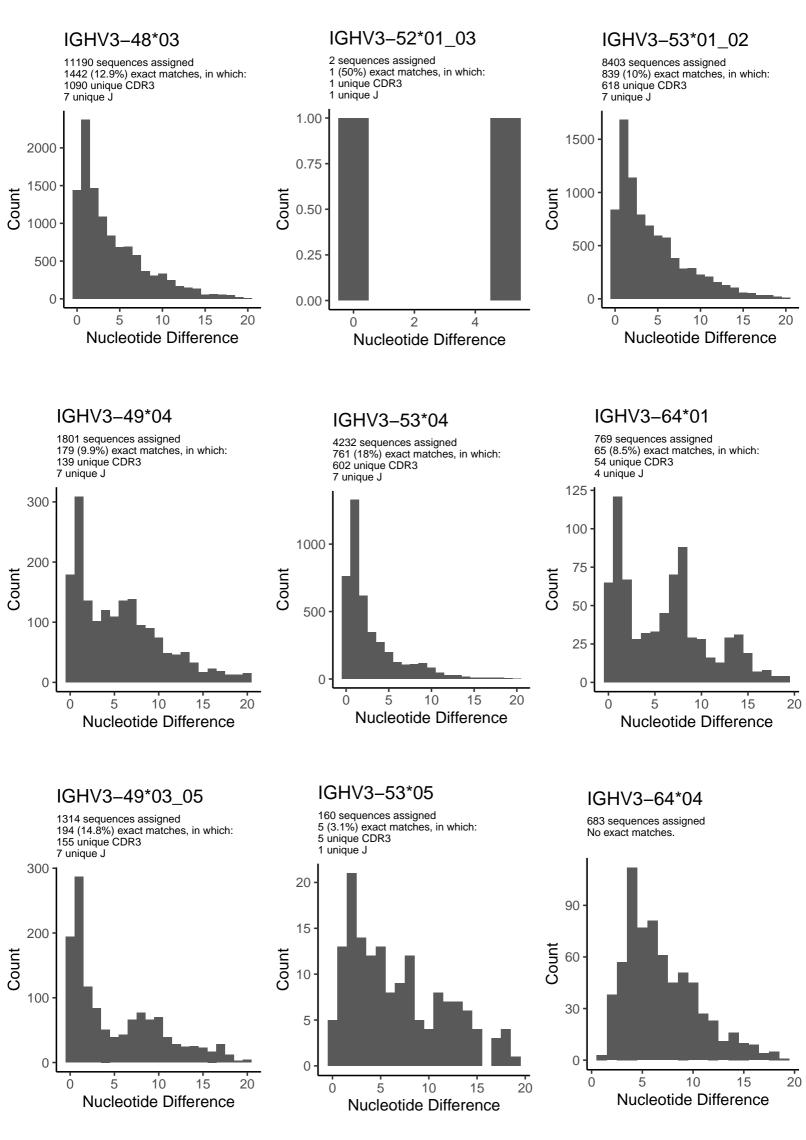


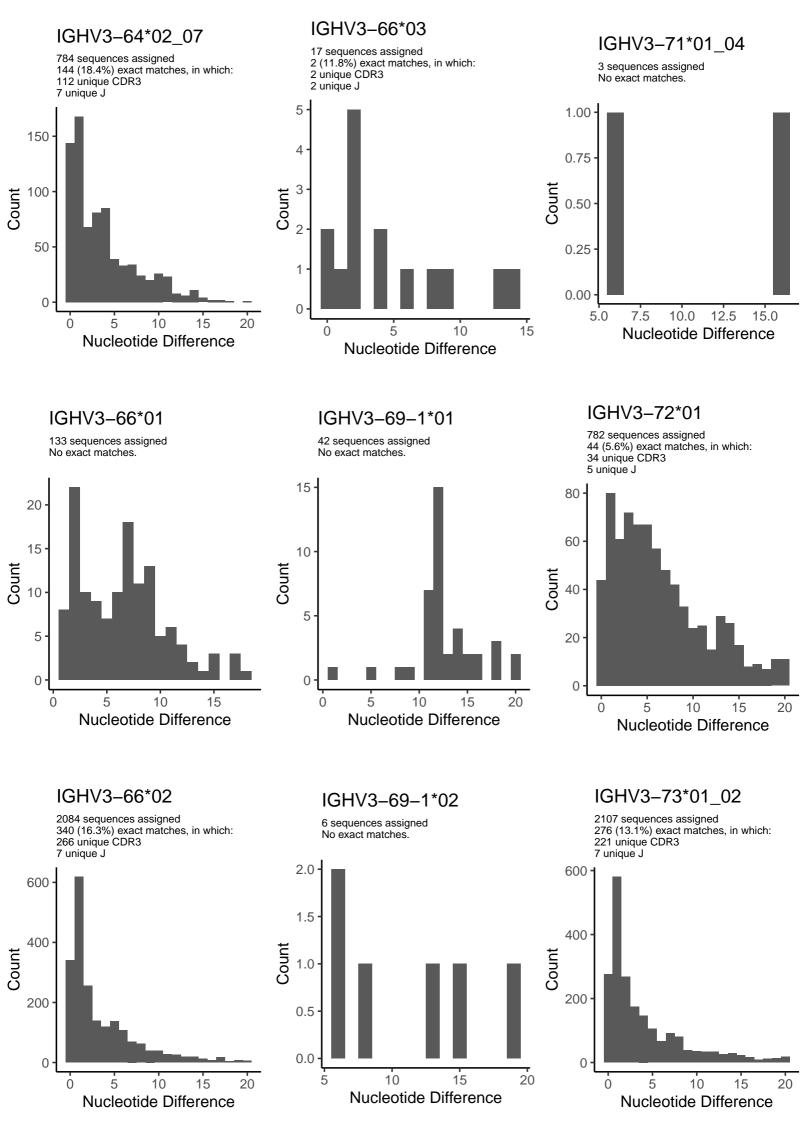


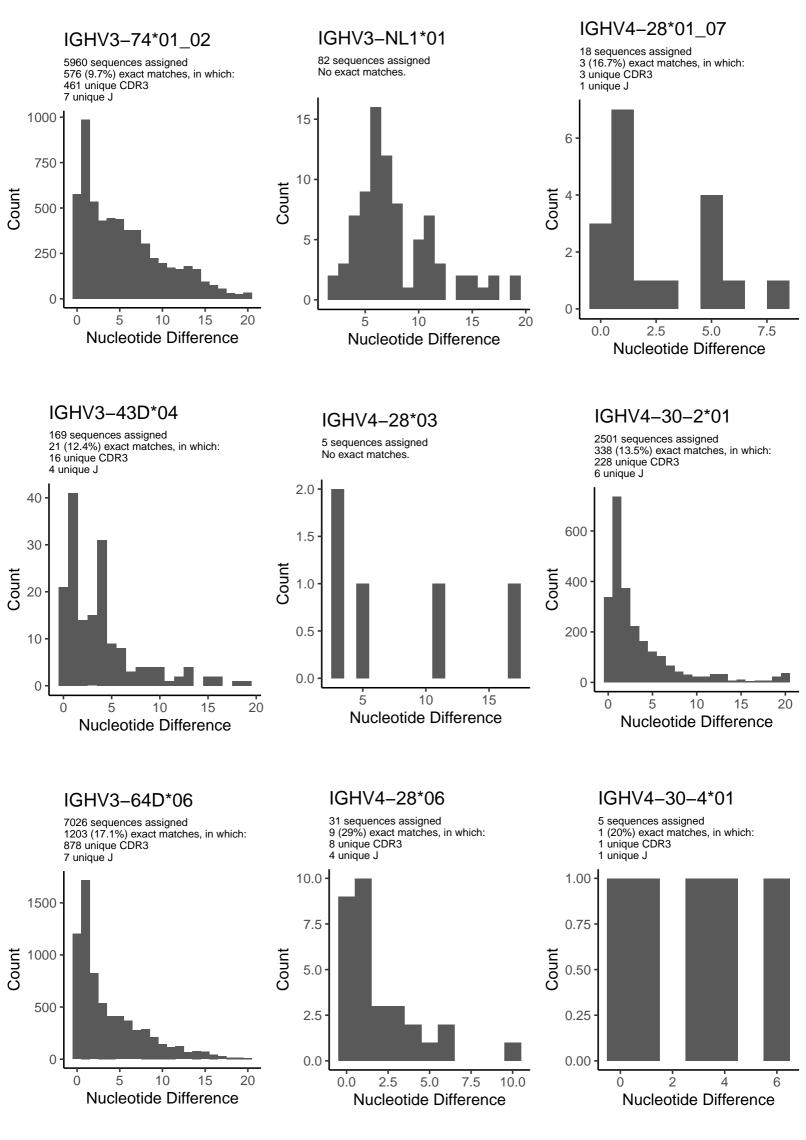


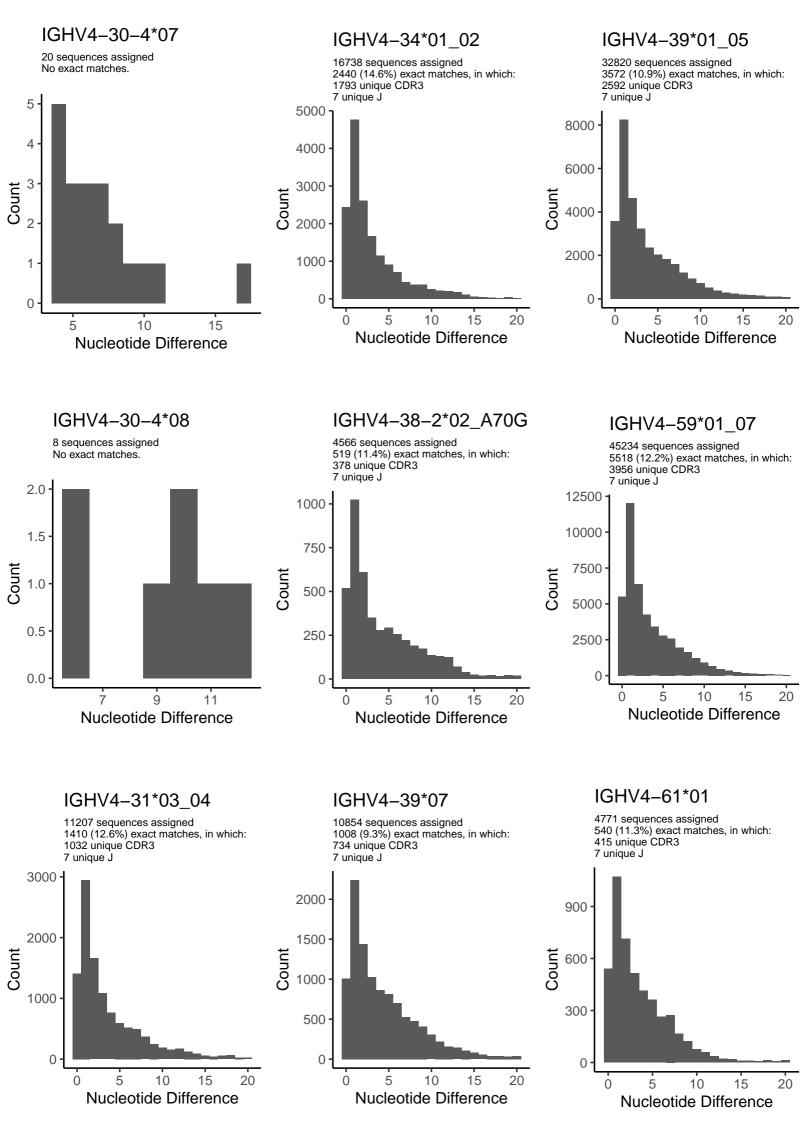




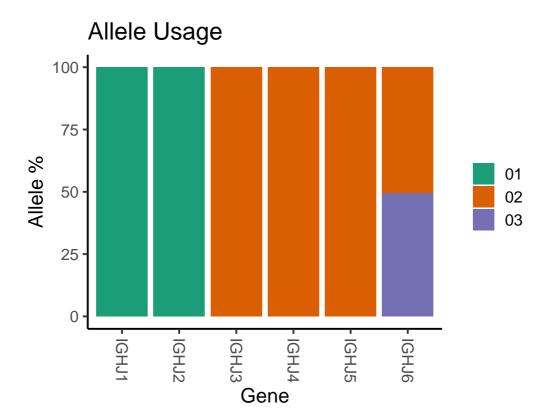




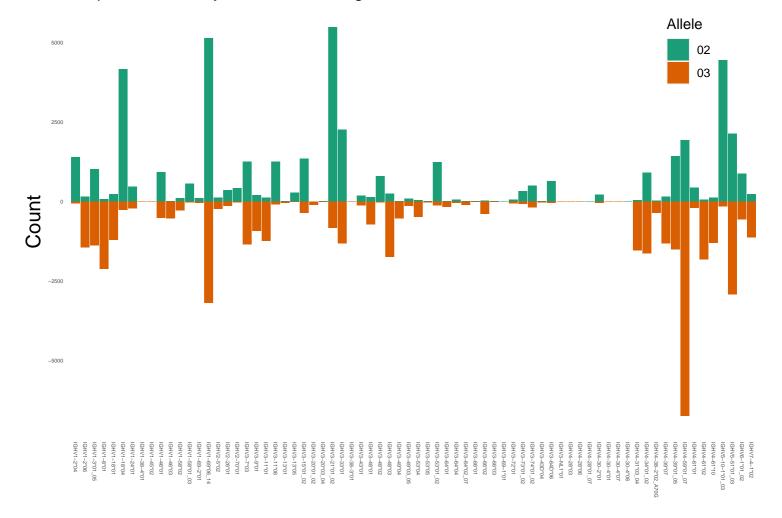




IGHV4-61*02 IGHV5-51*01_03 10263 sequences assigned 1113 (10.8%) exact matches, in which: 40432 sequences assigned 5315 (13.1%) exact matches, in which: 3832 unique CDR3 826 unique CDR3 7 unique J 7 unique J 10000 2000 7500 1500 5000 1000 2500 500 0 0 10 15 20 0 0 10 15 20 **Nucleotide Difference Nucleotide Difference** IGHV4-61*10 IGHV6-1*01_02 9003 sequences assigned 7 (0.1%) exact matches, in which: 7024 sequences assigned 861 (12.3%) exact matches, in which: 7 unique CDR3 640 unique CDR3 4 unique J 7 unique J 2000 1500 1500 1000 Count 1000 500 500 0 0 10 20 Nucleotide Difference Nucleotide Difference IGHV5-10-1*01_03 IGHV7-4-1*02 24481 sequences assigned 3936 (16.1%) exact matches, in which: 8047 sequences assigned 1050 (13%) exact matches, in which: 2838 unique CDR3 810 unique CDR3 7 unique J 7 unique J 6000 1500 Count 4000 1000 2000 500 0 0 0 10 15 20 10 20 **Nucleotide Difference Nucleotide Difference**



Sequence Count by IGHJ6 allele usage



Novel sequence(s) IGHV1-69*08_C191T IGHV3-11*06_T300C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored.