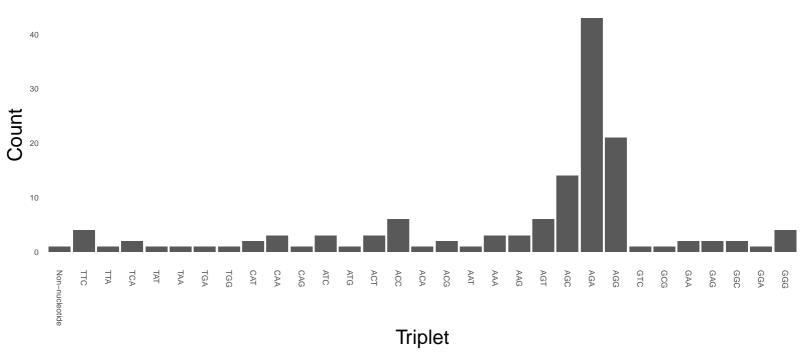
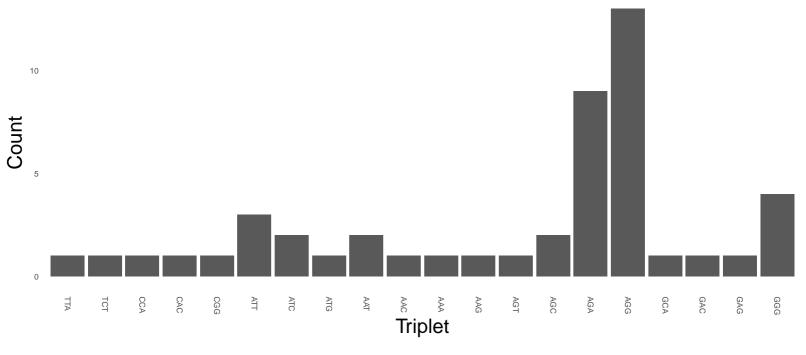
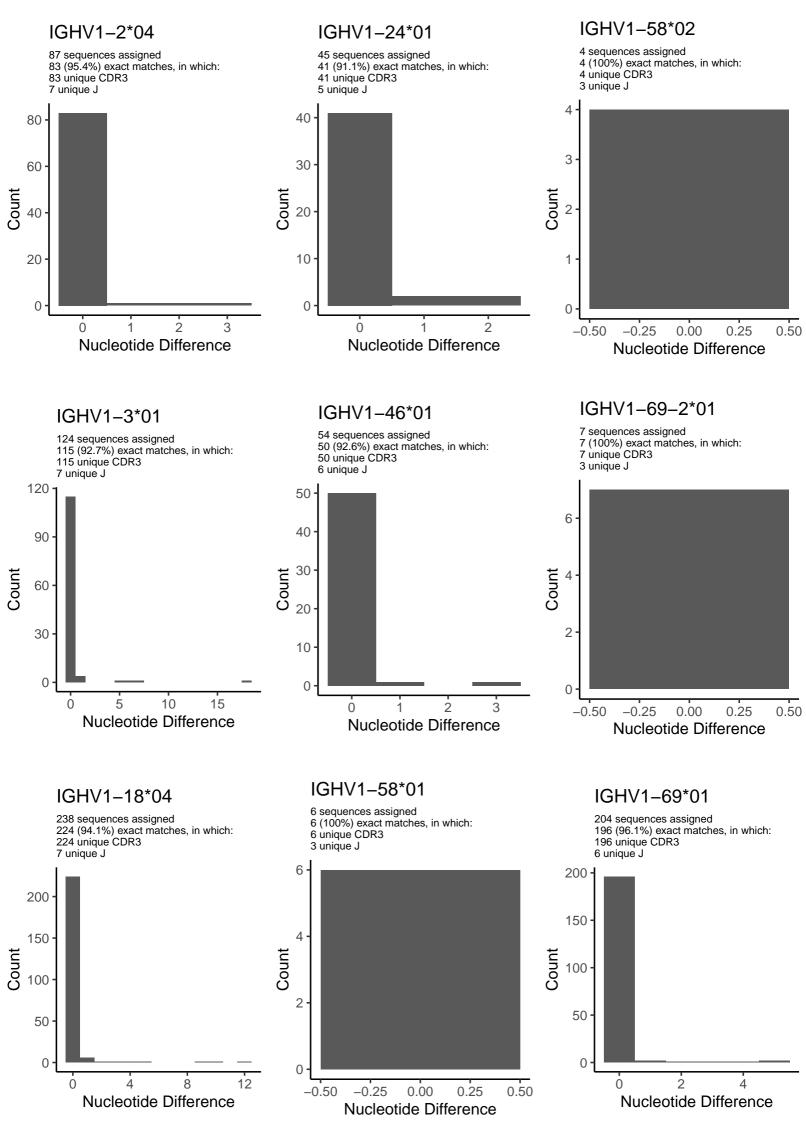


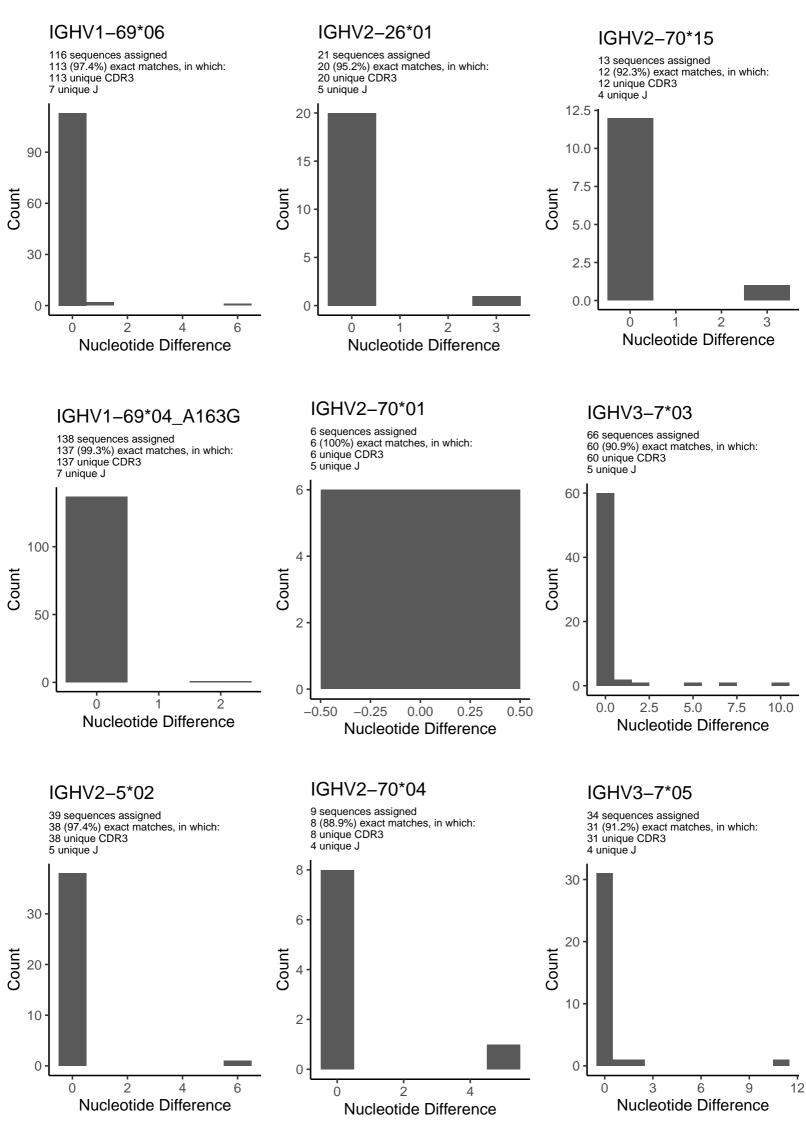
IGHV1-69*04_A163G- Final 3 nucleotides as a triplet

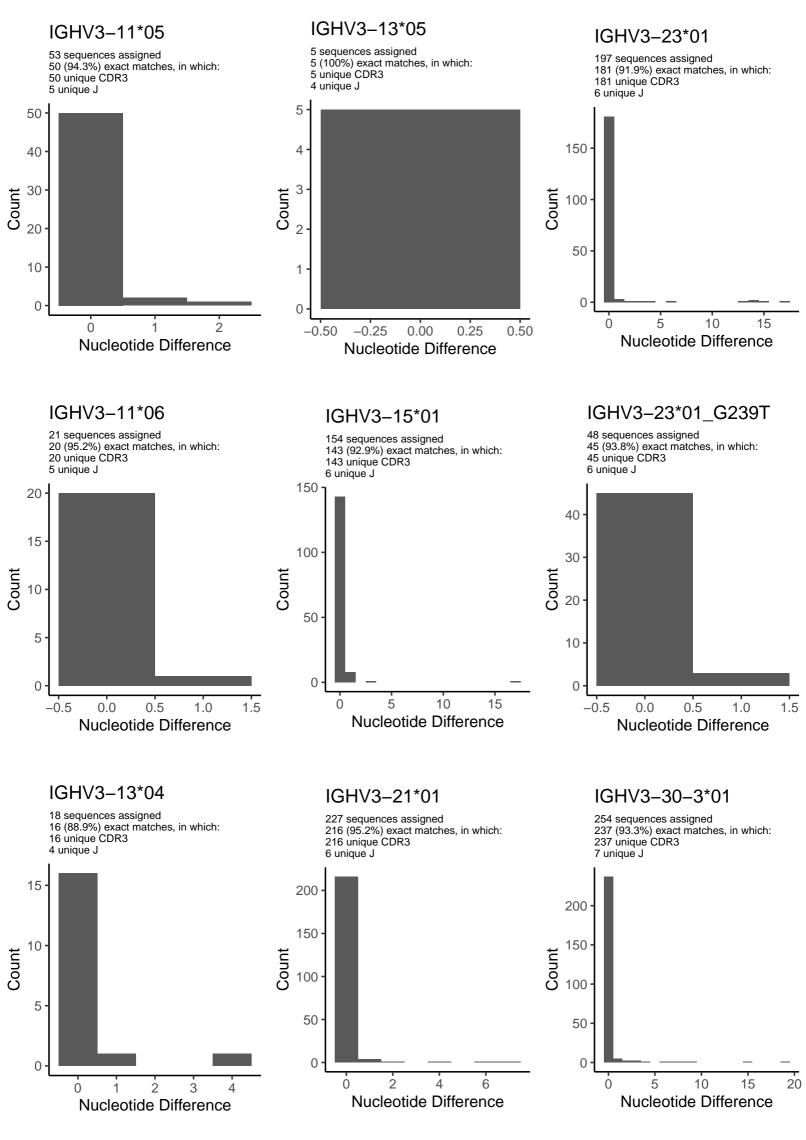


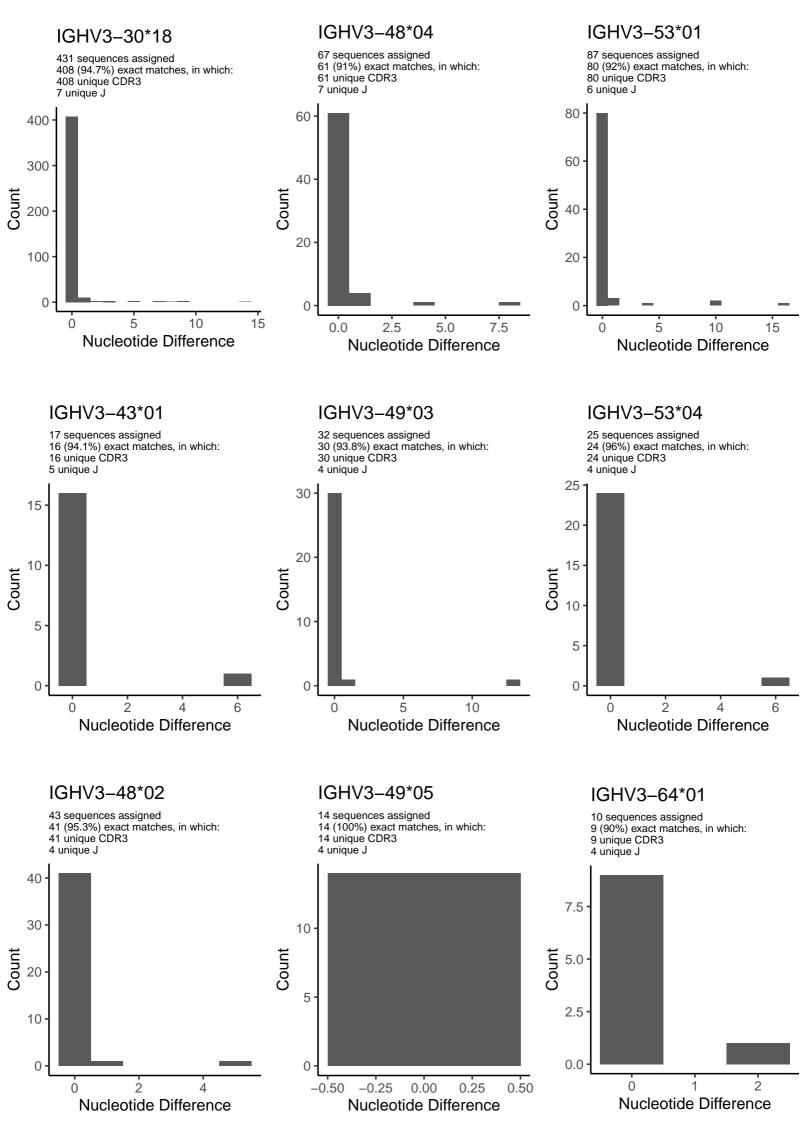
IGHV3-23*01_G239T- Final 3 nucleotides as a triplet

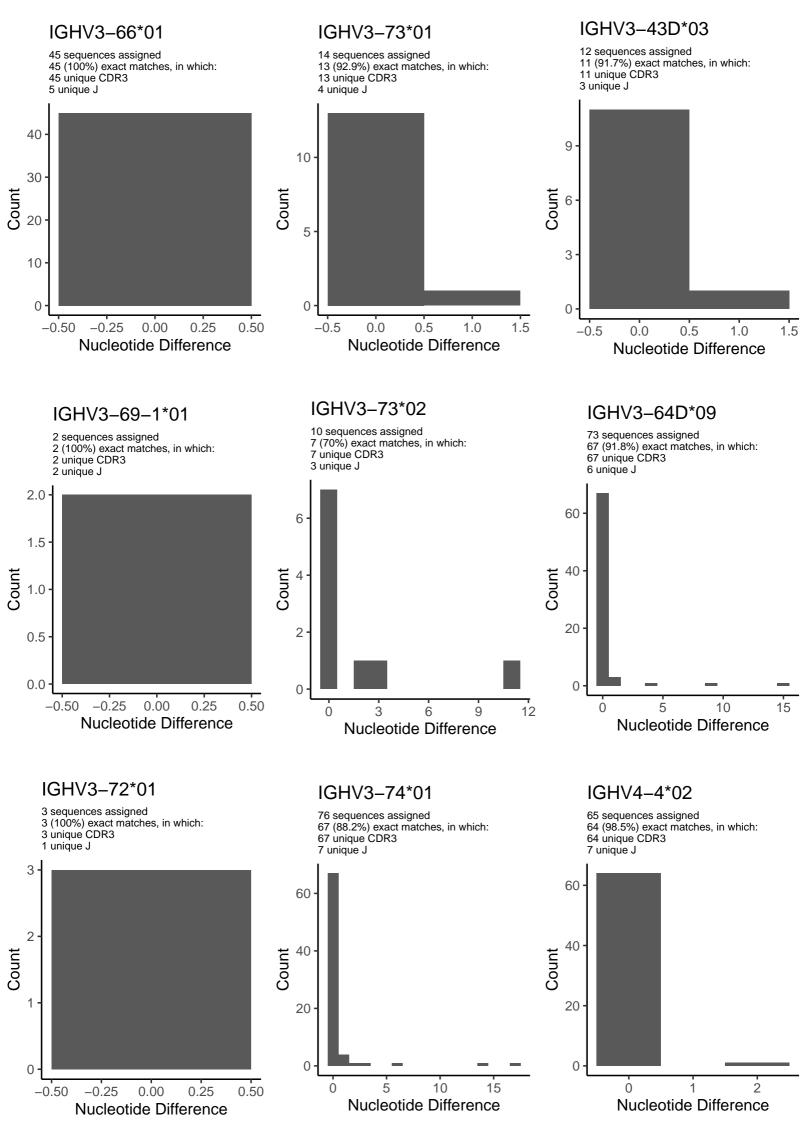


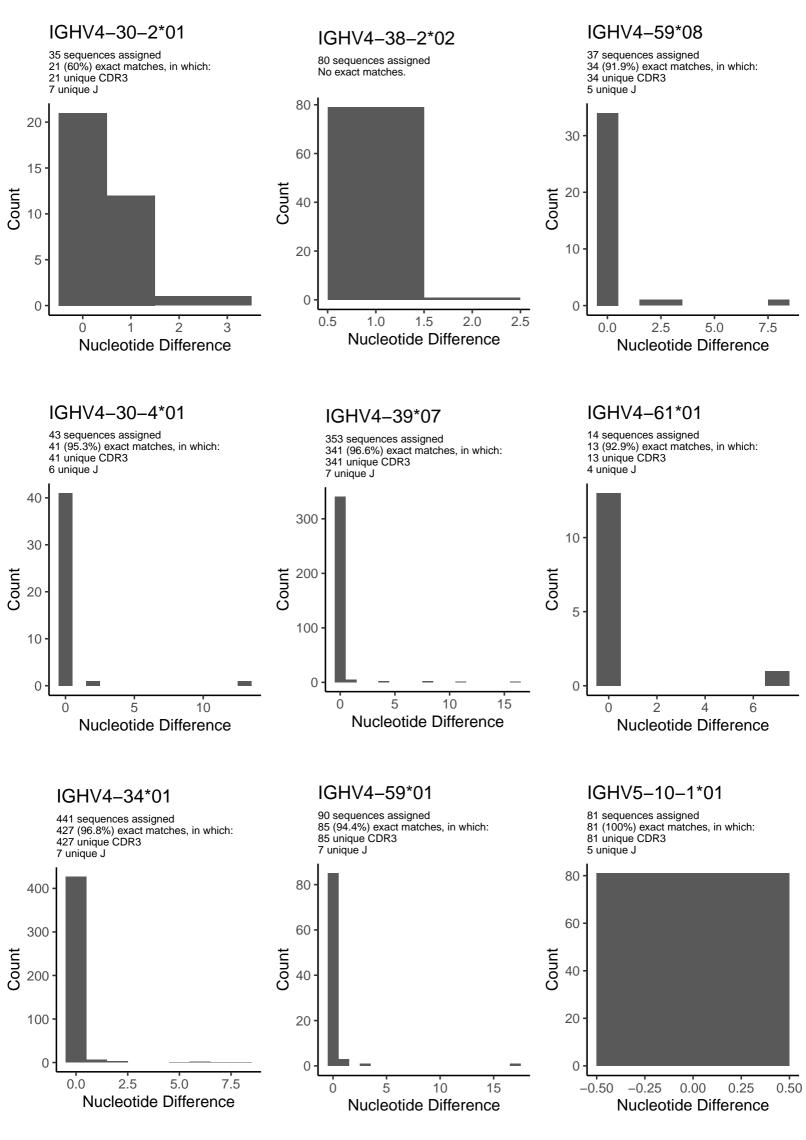








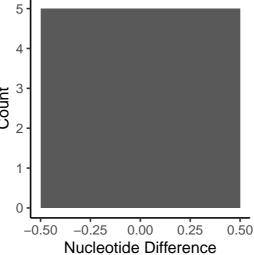




82 sequences assigned 76 (92.7%) exact matches, in which: 76 unique CDR3 4 unique J 6 unique J 4 60 Count 2 Count 0 20 1 0 0 0.0 2.5 5.0 7.5 10.0 -0.50**Nucleotide Difference**

IGHV7-4-1*01

5 sequences assigned 5 (100%) exact matches, in which: 5 unique CDR3

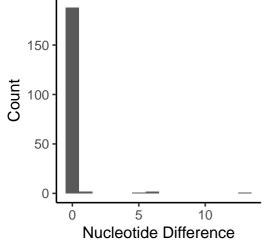


IGHV5-51*01

IGHV5-10-1*03

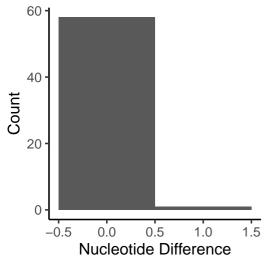
194 sequences assigned 188 (96.9%) exact matches, in which: 188 unique CDR3

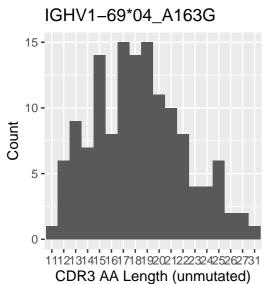
7 unique J

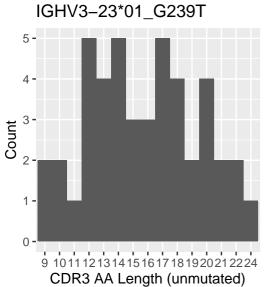


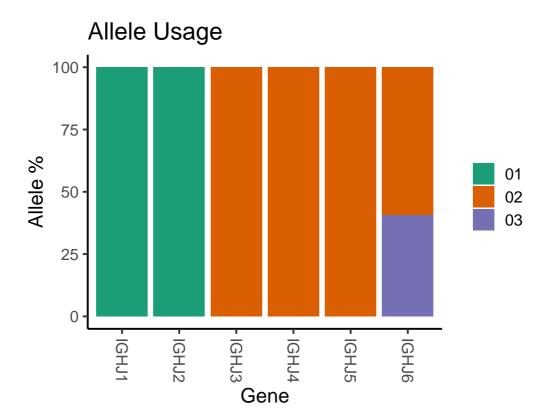
IGHV6-1*01

59 sequences assigned 58 (98.3%) exact matches, in which: 58 unique CDR3 5 unique J









Sequence Count by IGHJ6 allele usage

