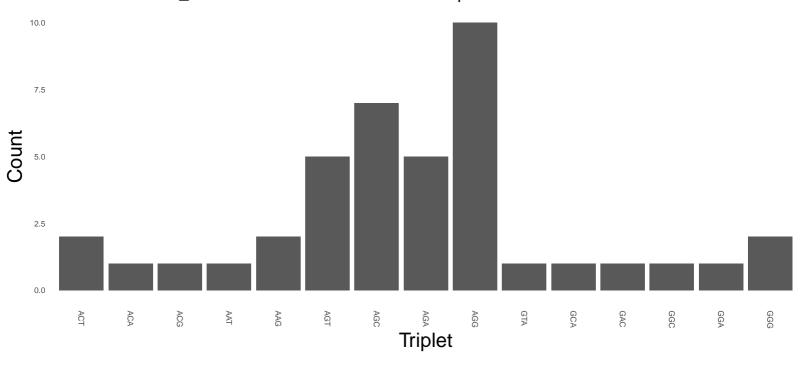
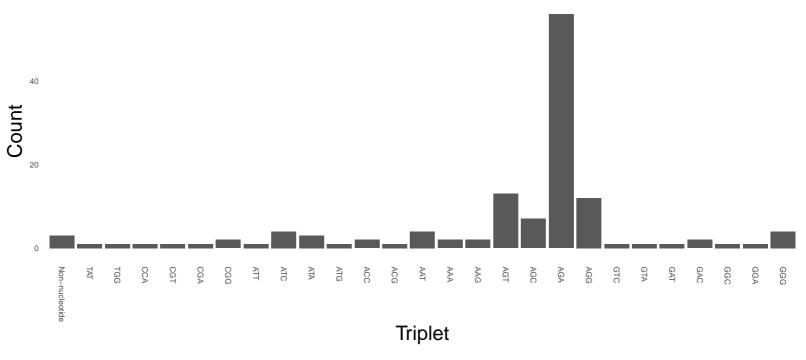
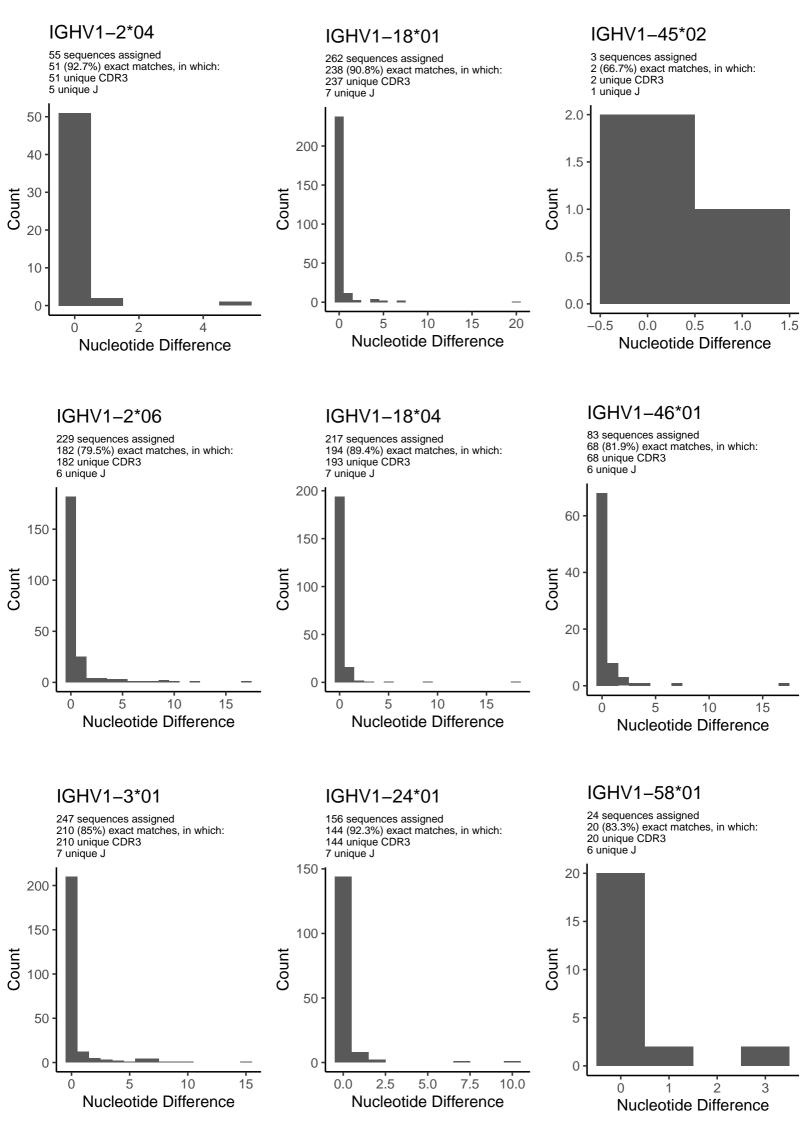


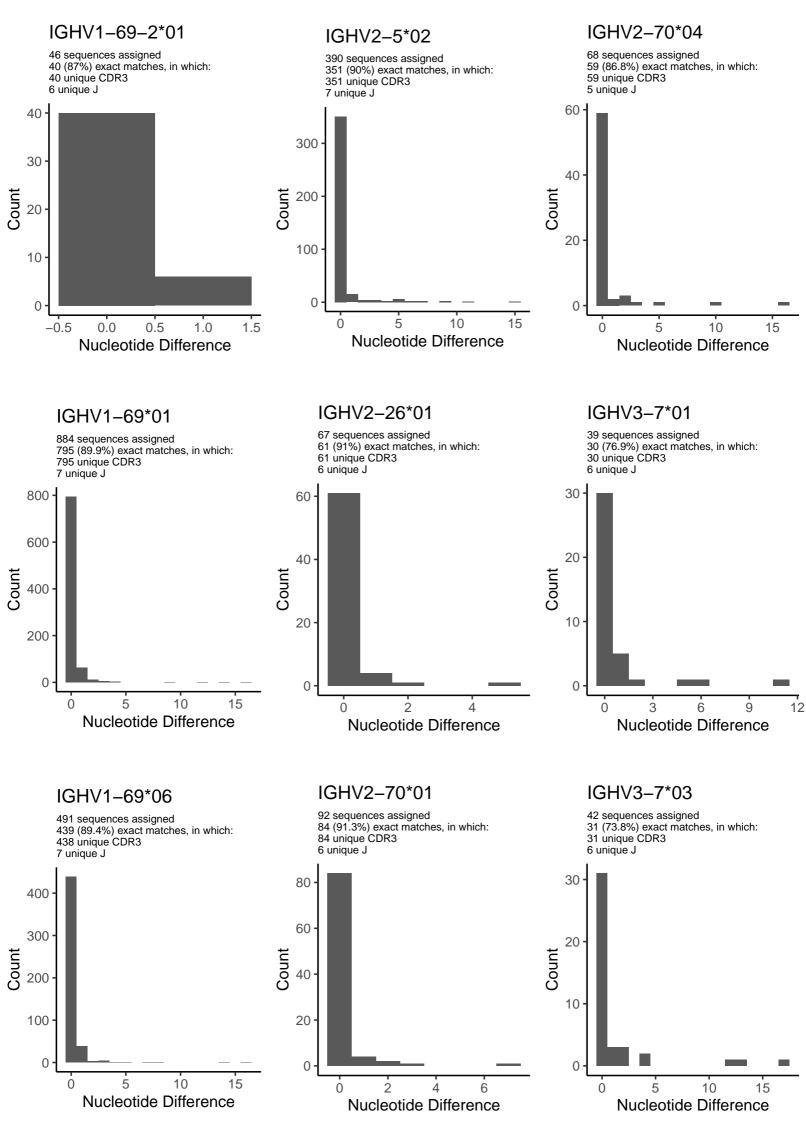
IGHV4-30-2\*01\_C285T- Final 3 nucleotides as a triplet

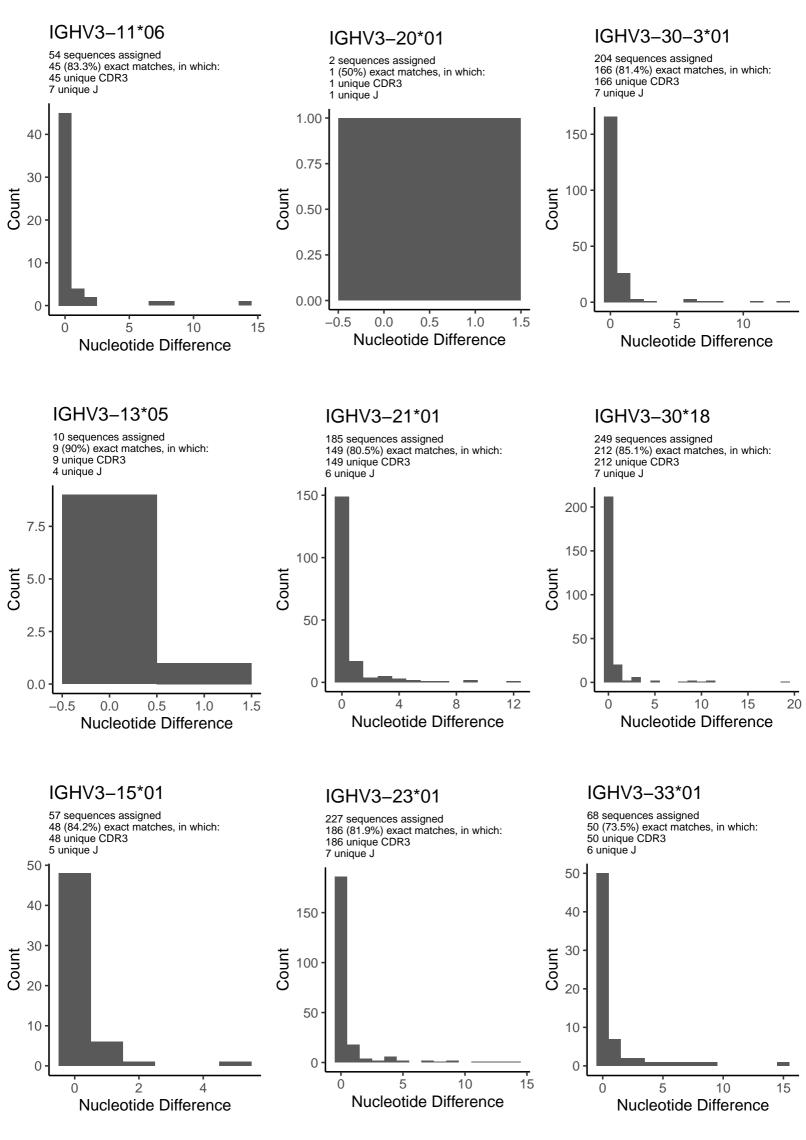


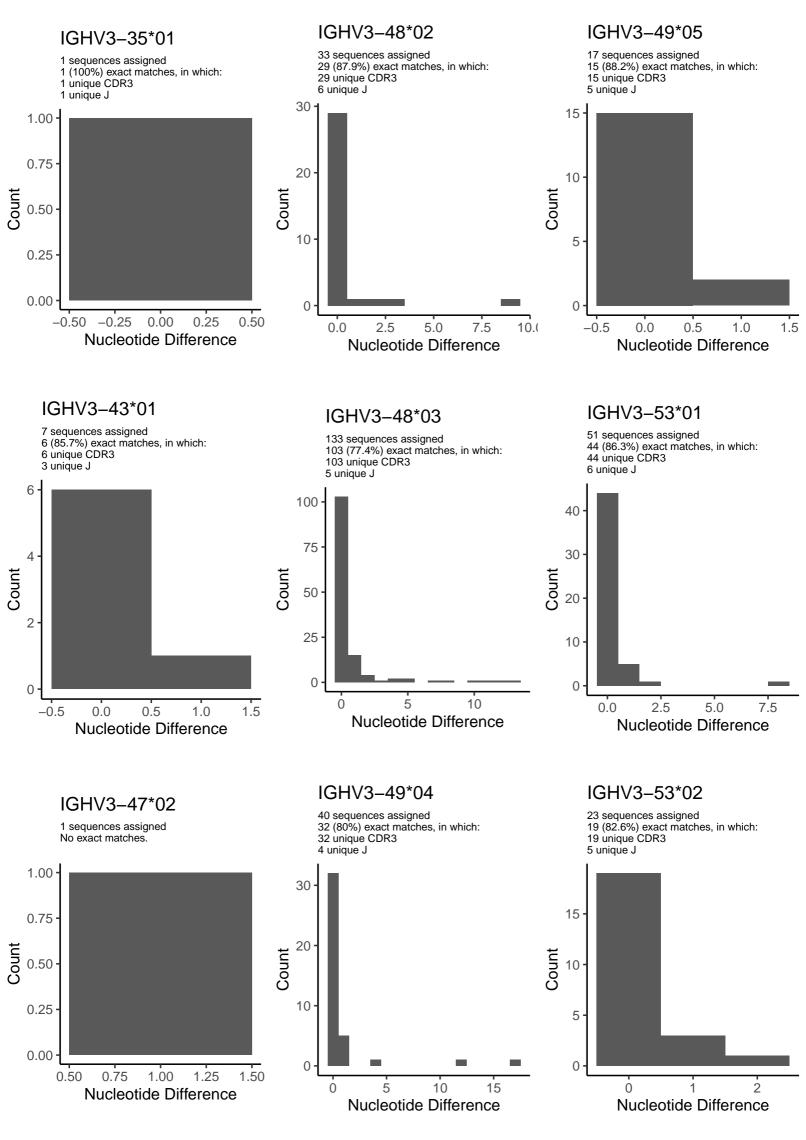
IGHV4-38-2\*02\_A70G- Final 3 nucleotides as a triplet

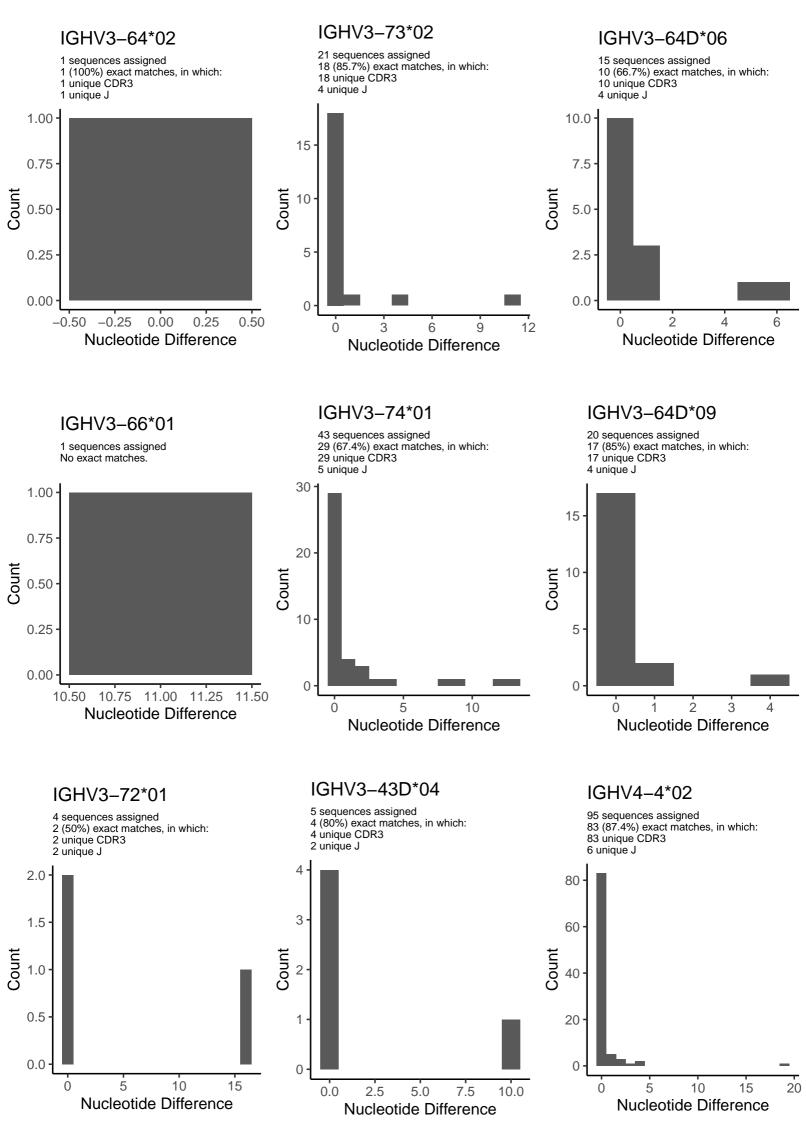


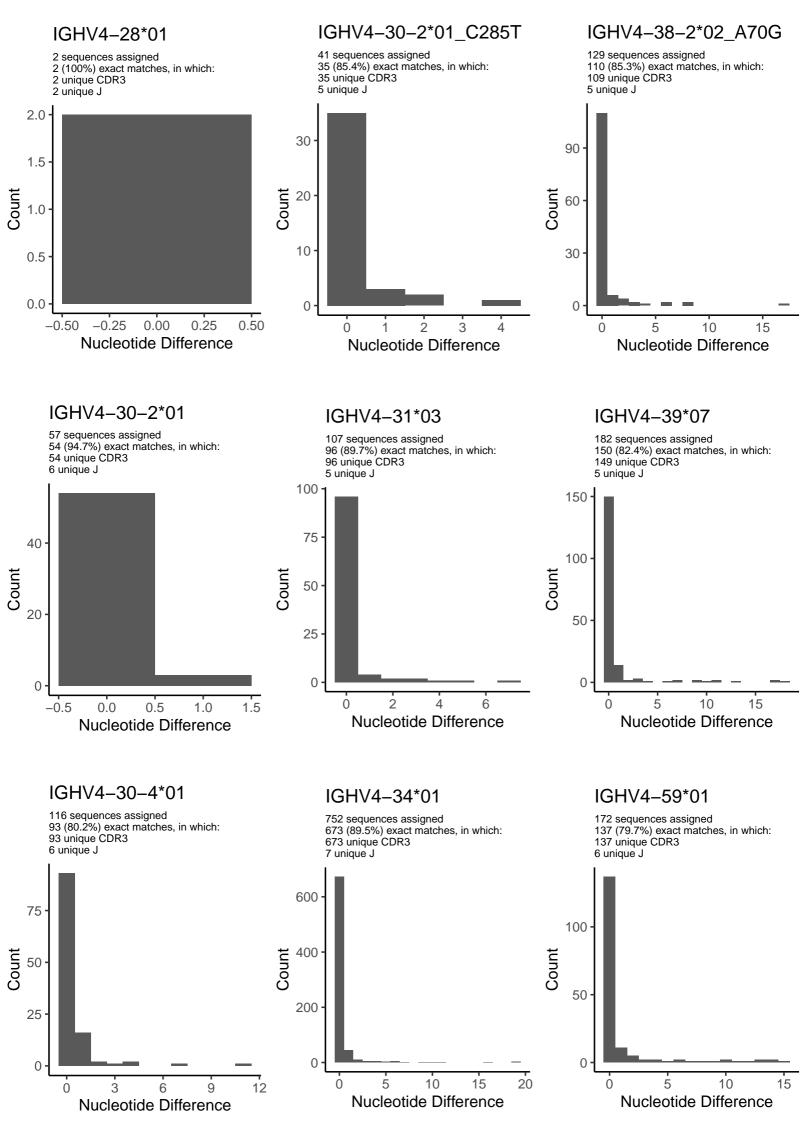






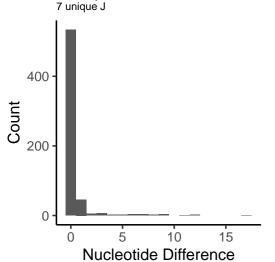




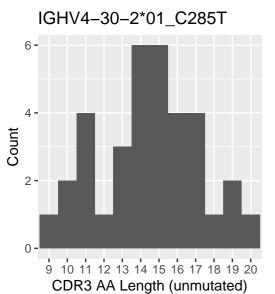


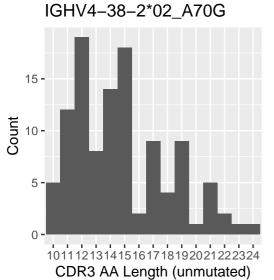
## IGHV4-61\*01 IGHV6-1\*01 46 sequences assigned 41 (89.1%) exact matches, in which: 41 unique CDR3 7 unique J 184 sequences assigned 165 (89.7%) exact matches, in which: 164 unique CDR3 6 unique J 150 30 100 Count 20 50 10 0 0 2.5 0.0 5.0 0.0 2.5 5.0 **Nucleotide Difference** Nucleotide Difference IGHV5-10-1\*03 IGHV7-4-1\*02 309 sequences assigned 272 (88%) exact matches, in which: 272 unique CDR3 7 unique J 273 sequences assigned 233 (85.3%) exact matches, in which: 233 unique CDR3 7 unique J 200 200 150 Count 100 100 50 0 10 5 15 5 10 0 **Nucleotide Difference** Nucleotide Difference

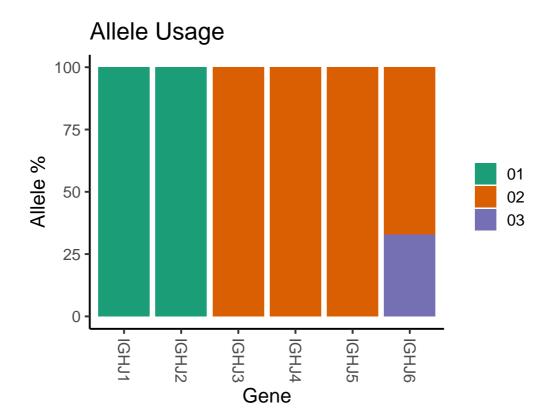
## IGHV5-51\*01



614 sequences assigned 534 (87%) exact matches, in which: 533 unique CDR3







## Sequence Count by IGHJ6 allele usage

