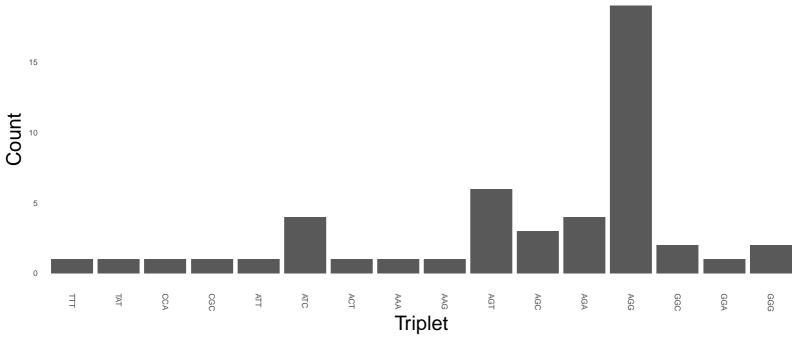
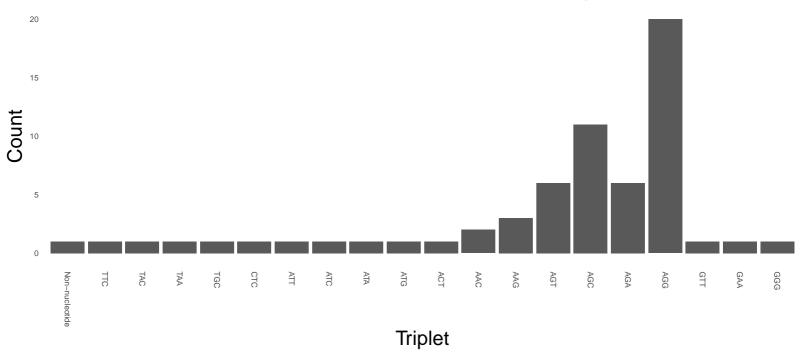
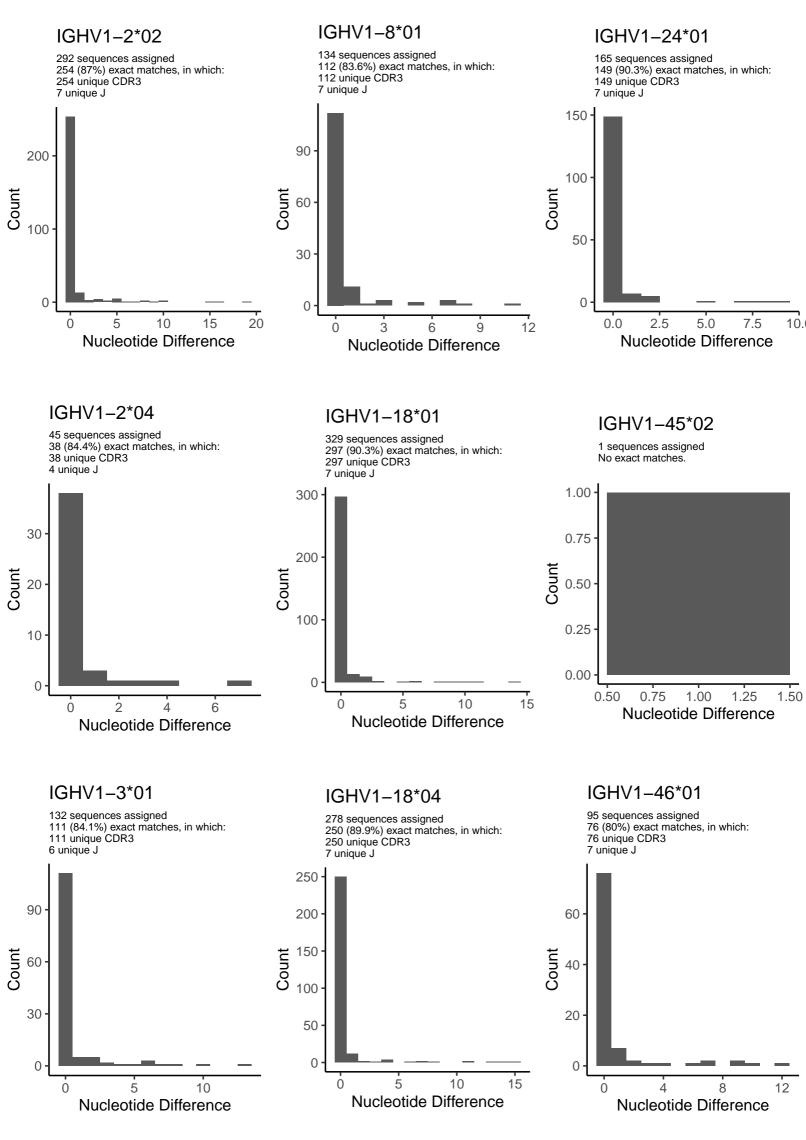


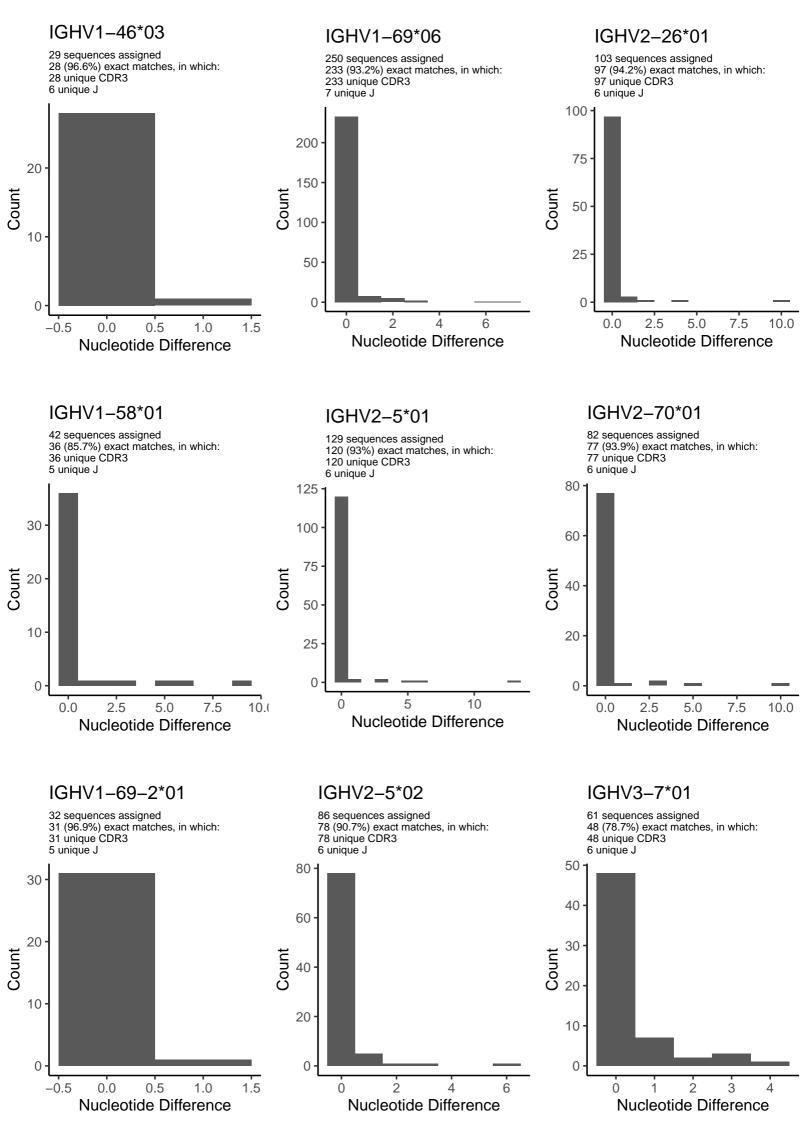
IGHV4-30-2\*01\_C285T- Final 3 nucleotides as a triplet

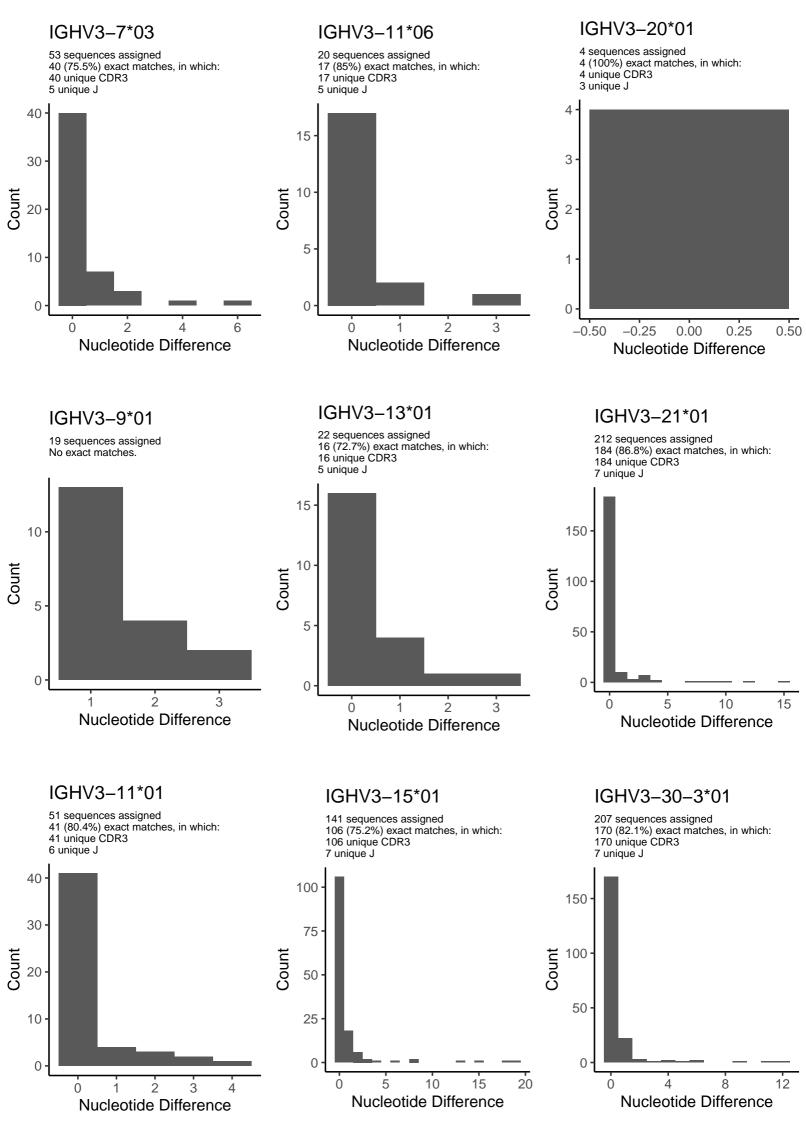


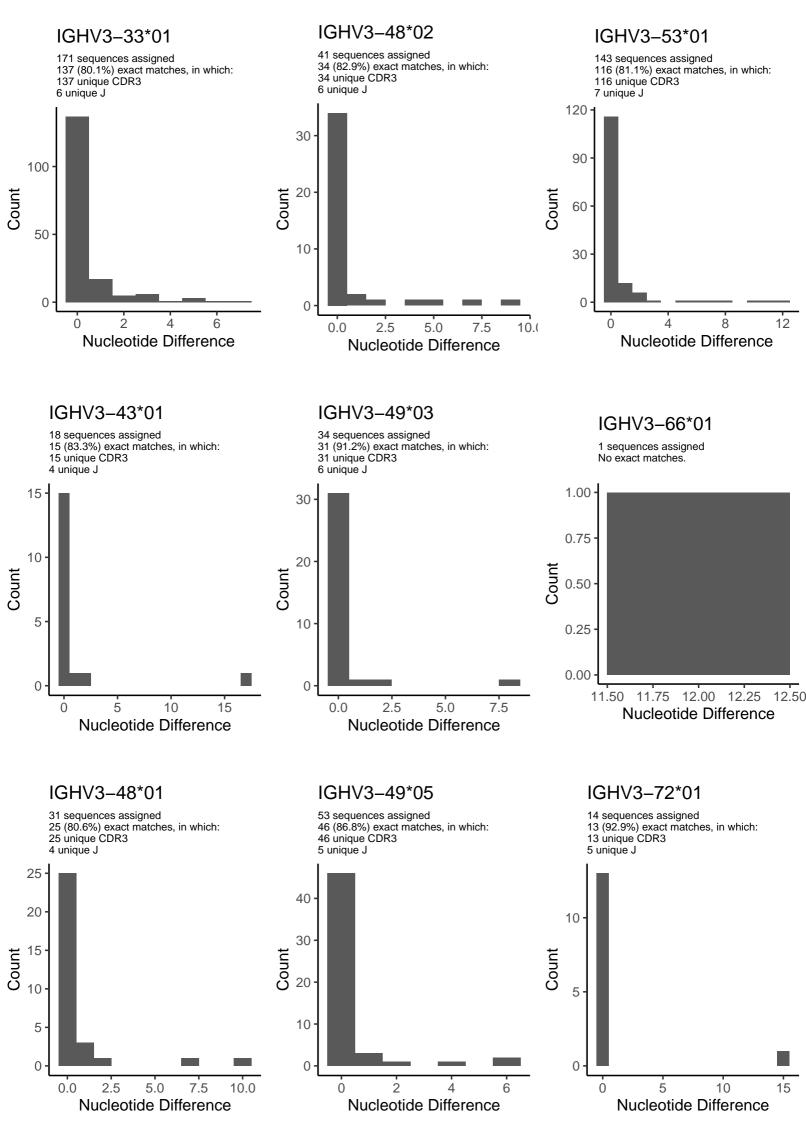
IGHV4-31\*11\_G4C\_G21C\_C25T\_A113C- Final 3 nucleotides as a triplet

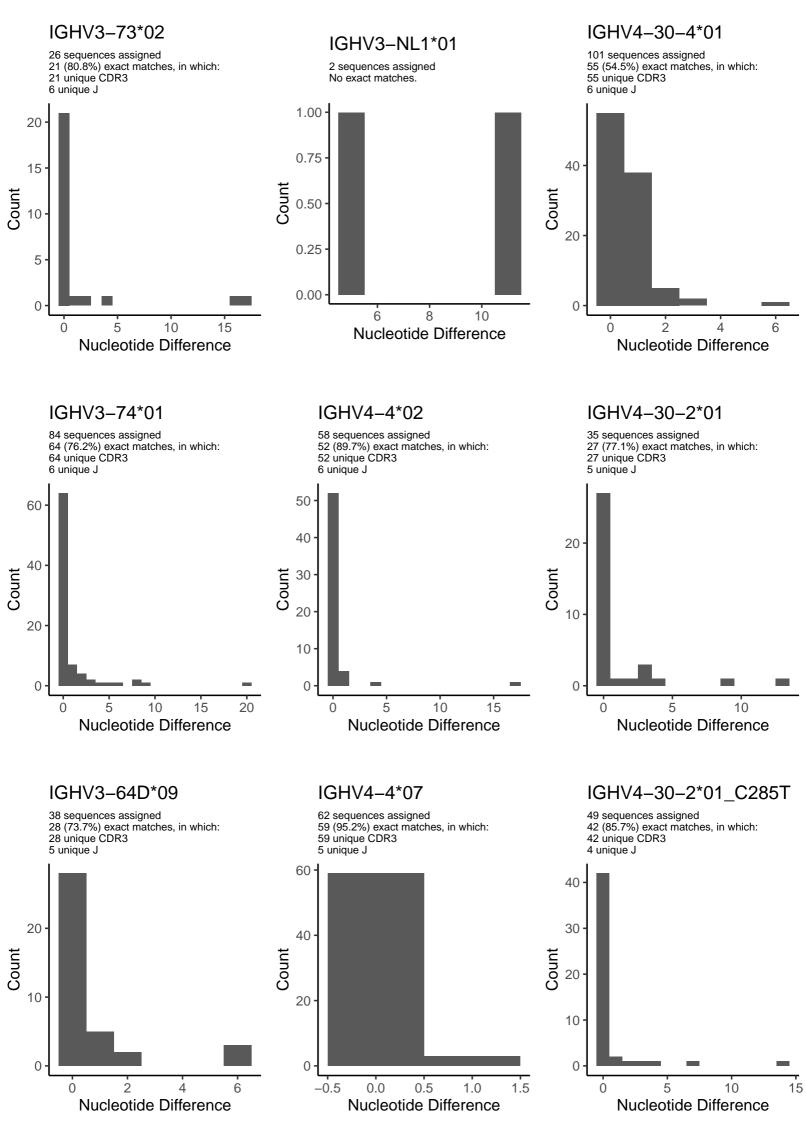


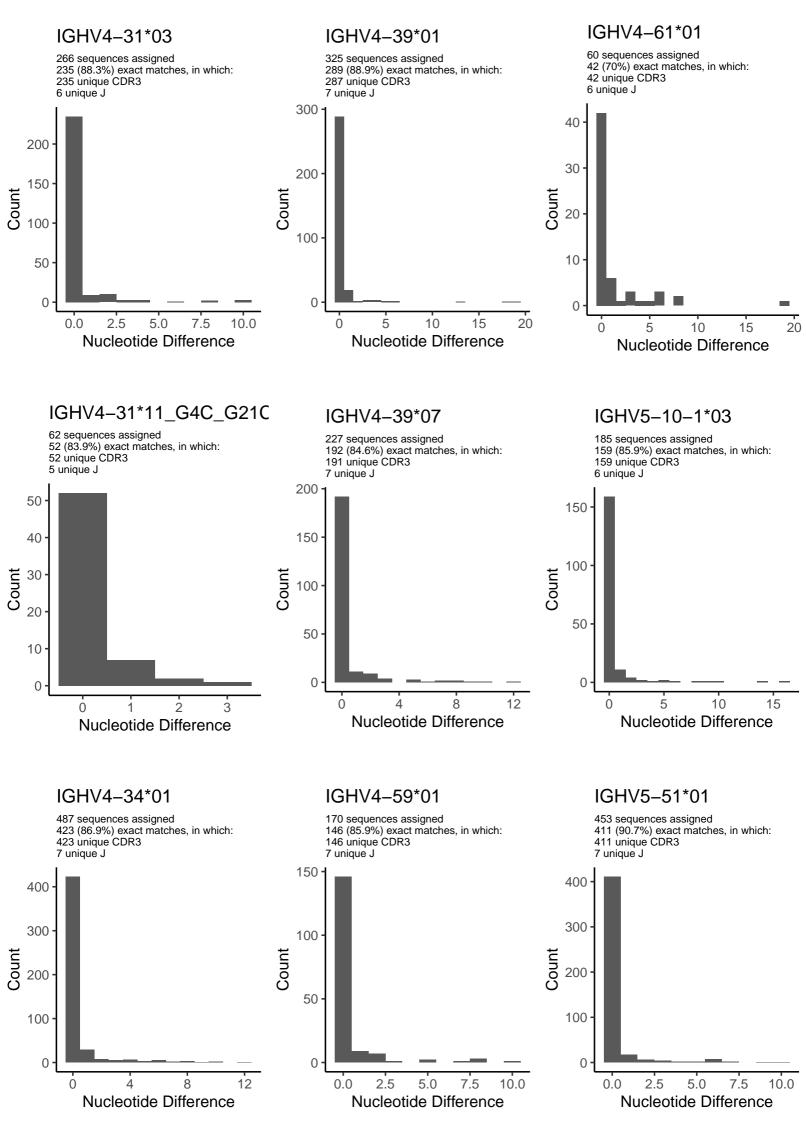






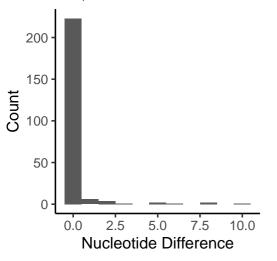






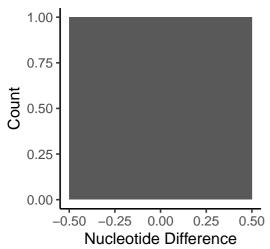
## IGHV6-1\*01

240 sequences assigned 223 (92.9%) exact matches, in which: 223 unique CDR3 7 unique J



## IGHV7-4-1\*01

- 1 sequences assigned 1 (100%) exact matches, in which: 1 unique CDR3 1 unique J

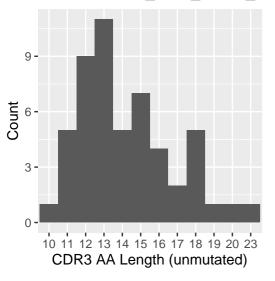


IGHV4-30-2\*01\_C285T

86221000

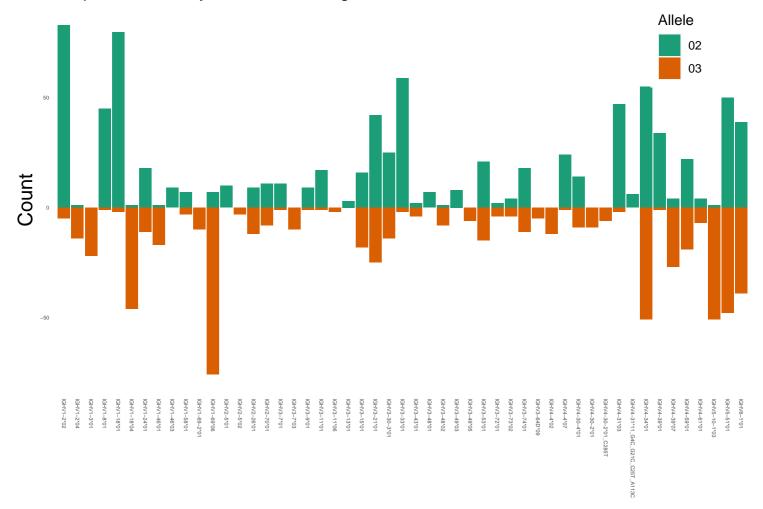
9 10 11 12 13 15 16 17 18 19 20 21 23 24 CDR3 AA Length (unmutated)

## IGHV4-31\*11\_G4C\_G21C\_C25T\_A113C





## Sequence Count by IGHJ6 allele usage



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