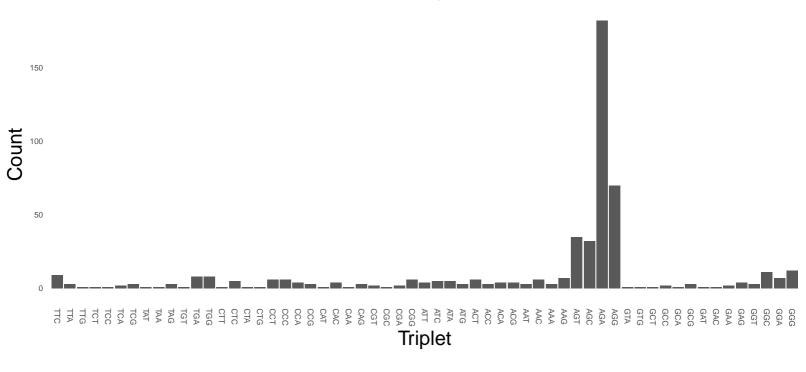
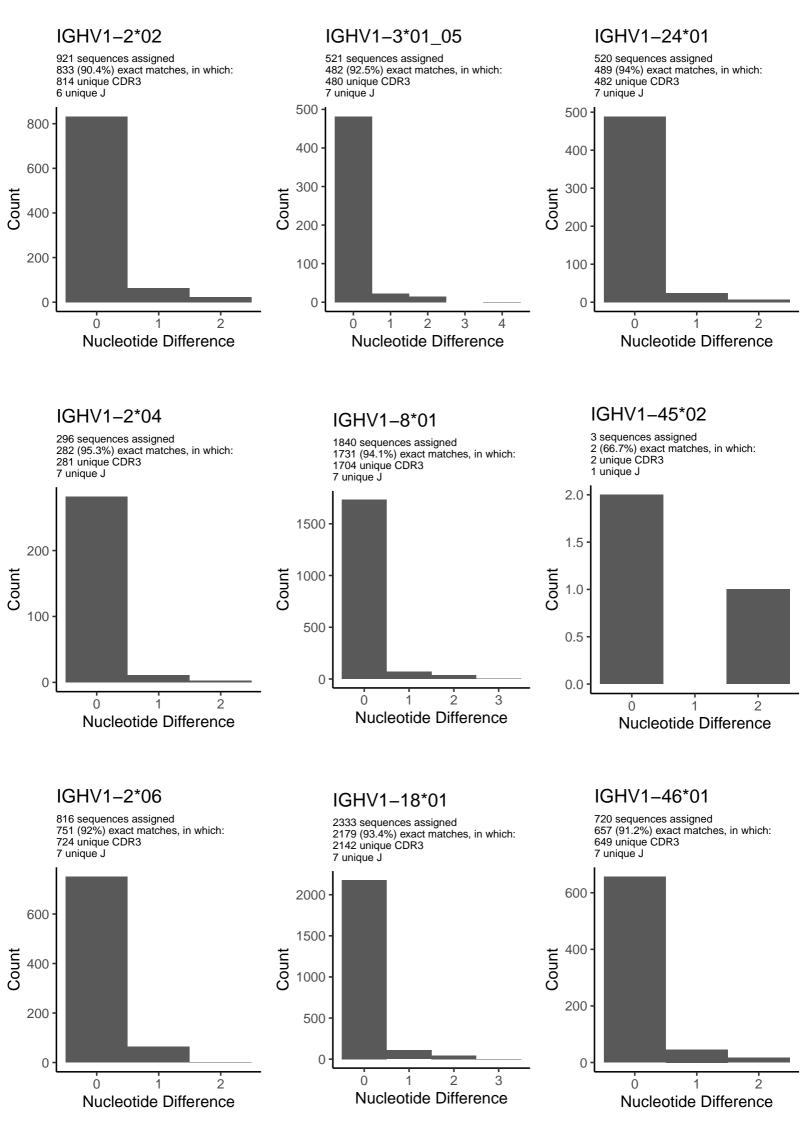
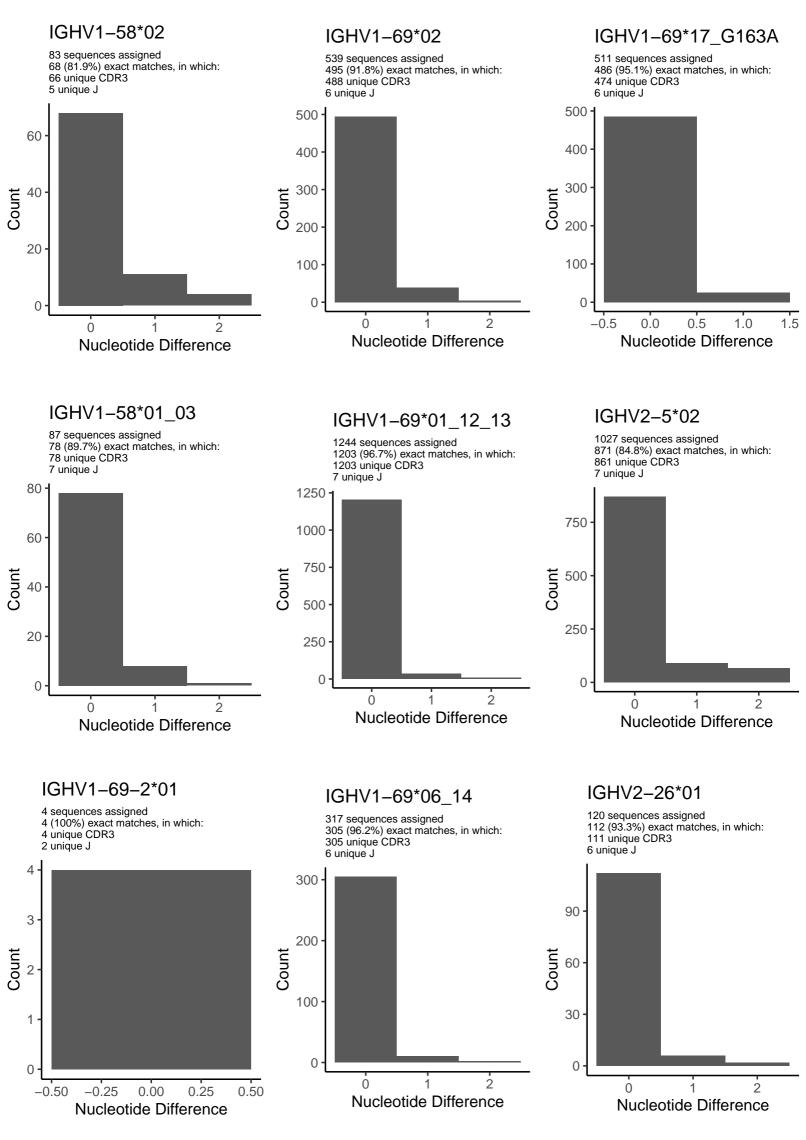


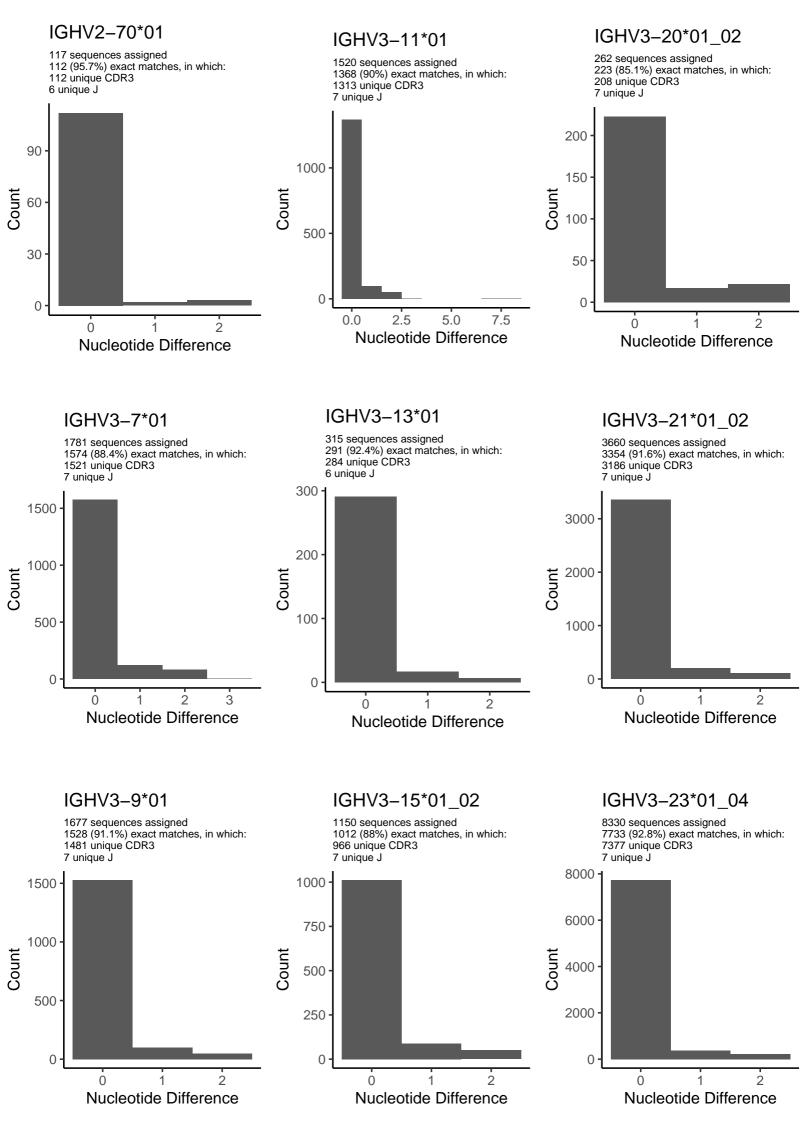


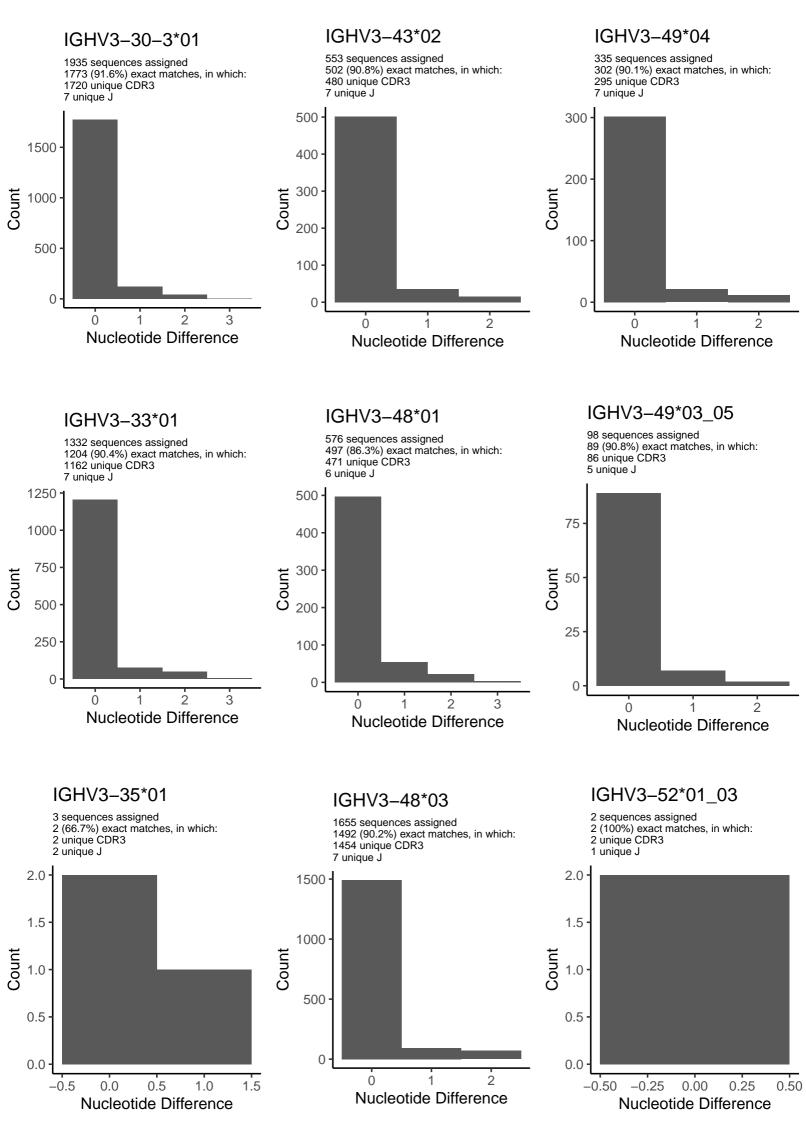
IGHV1-69\*17\_G163A- Final 3 nucleotides as a triplet

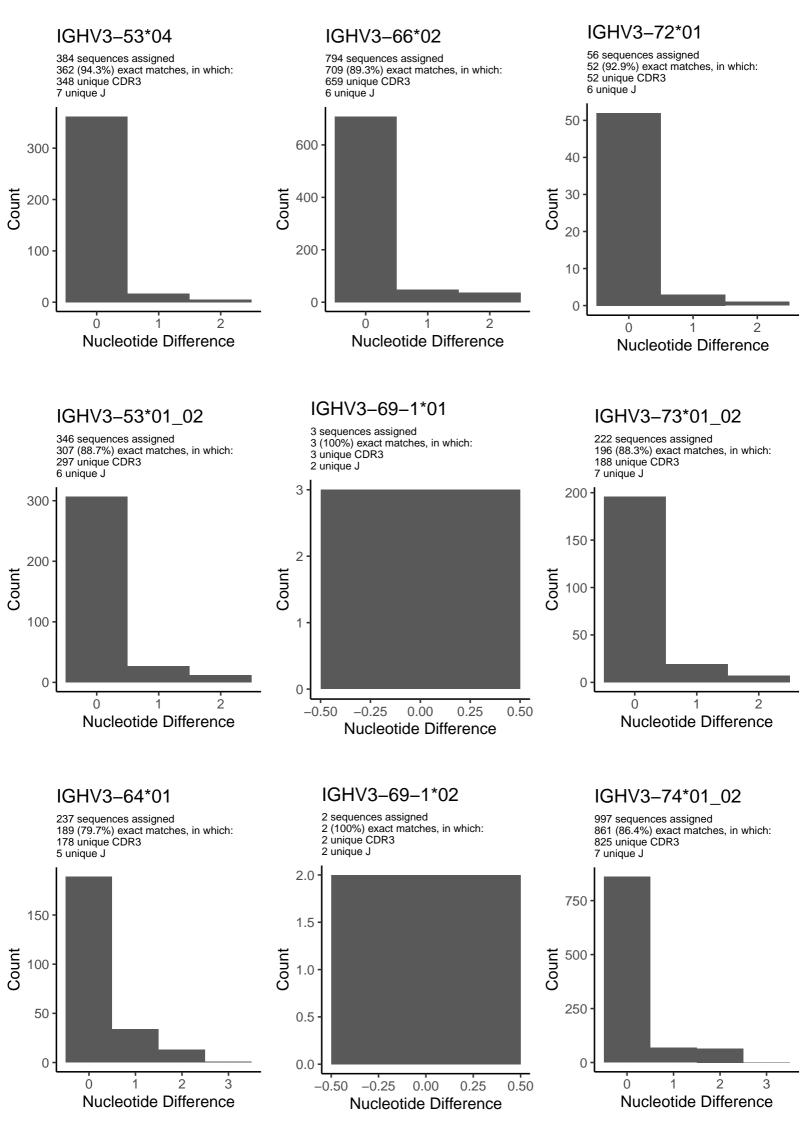


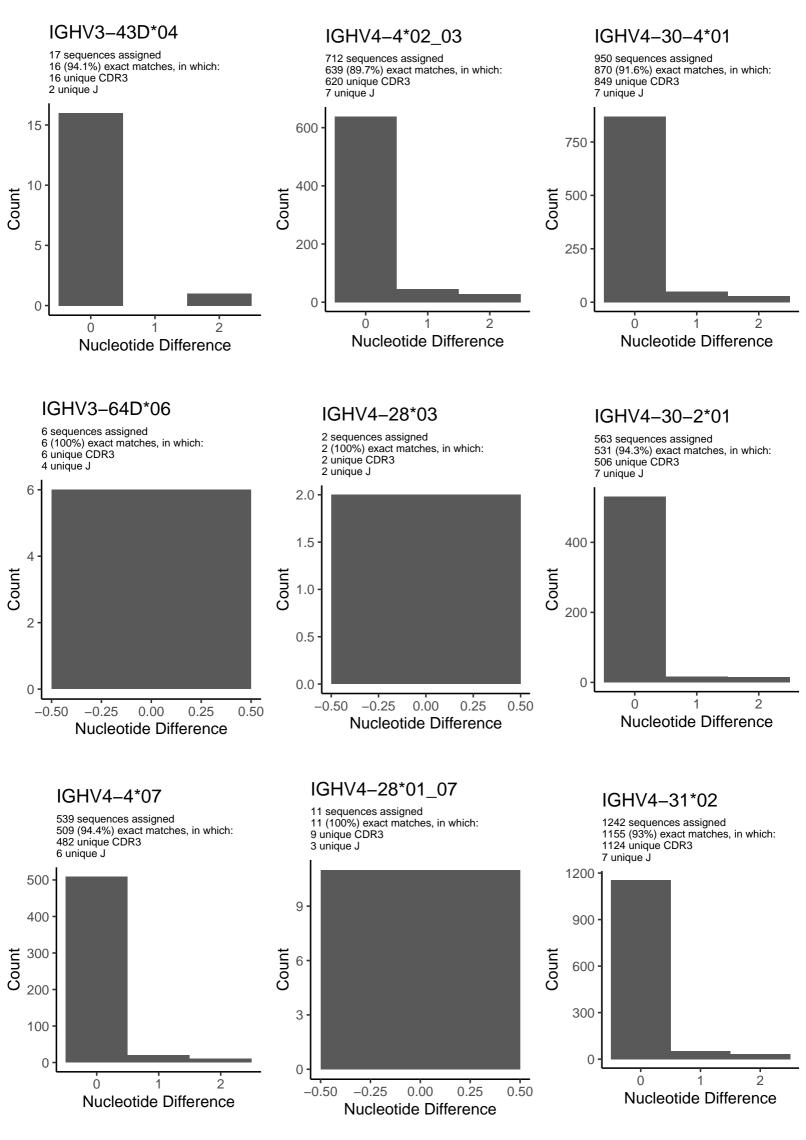


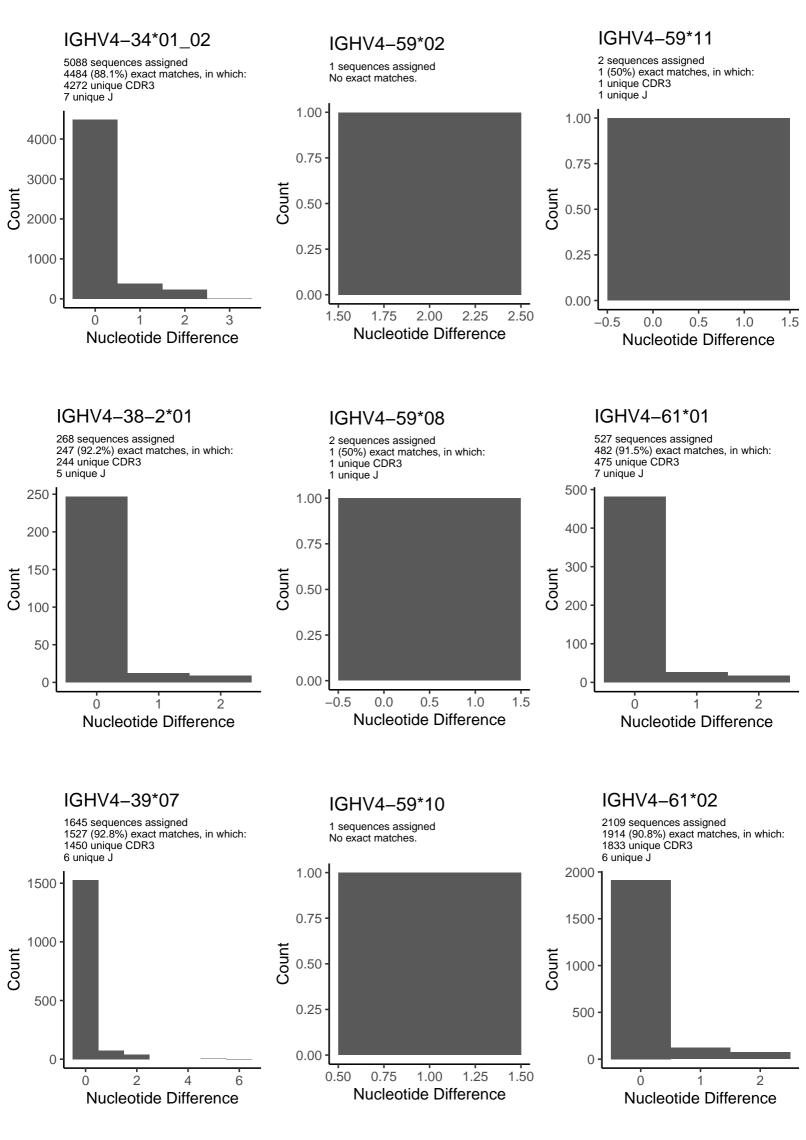








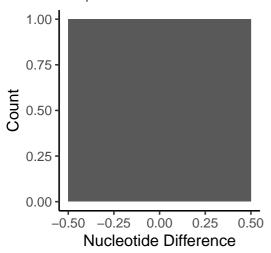




## IGHV5-51\*07 IGHV7-4-1\*02 525 sequences assigned 1 sequences assigned 460 (87.6%) exact matches, in which: 453 unique CDR3 1 (100%) exact matches, in which: 1 unique CDR3 7 unique J 1 unique J 1.00 400 0.75 300 Count 200 Count O.50 0.25 100 0.00 0 0.25 -0.50-0.25 0.00 0.50 Nucleotide Difference **Nucleotide Difference**

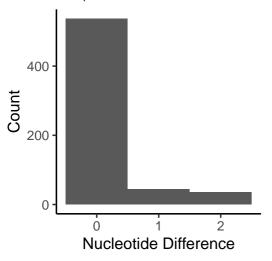
## IGHV5-51\*01\_03

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

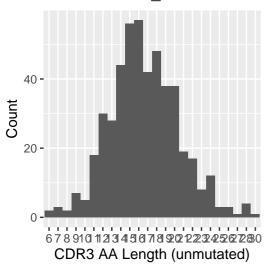


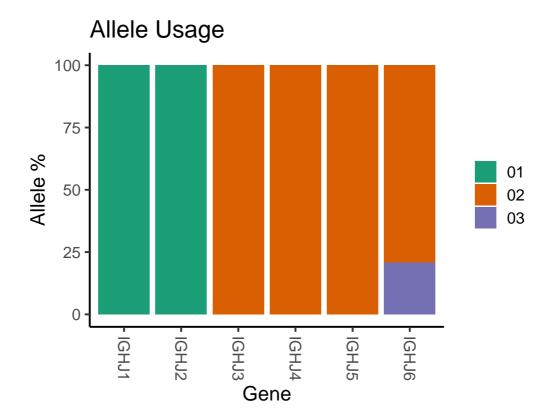
## IGHV6-1\*01\_02

616 sequences assigned 537 (87.2%) exact matches, in which: 509 unique CDR3 7 unique J



IGHV1-69\*17\_G163A





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