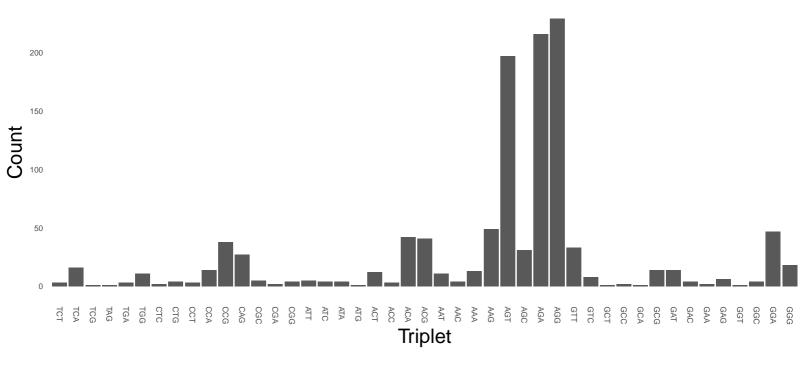
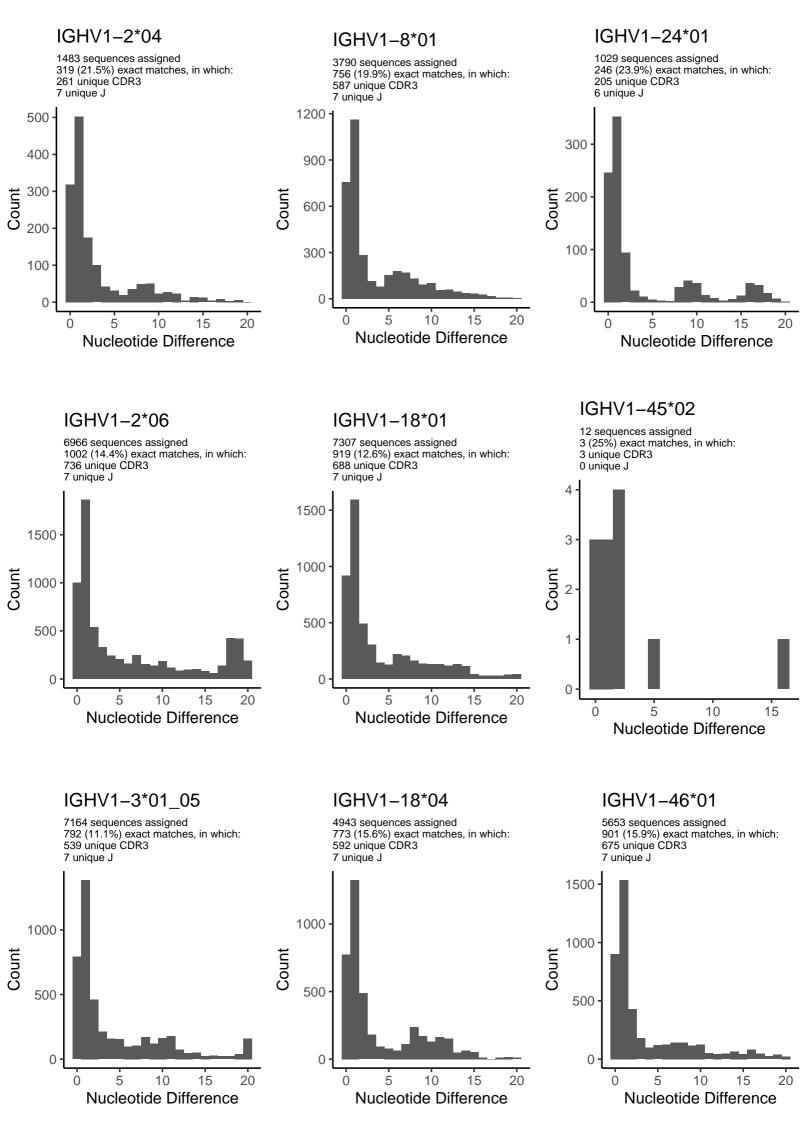
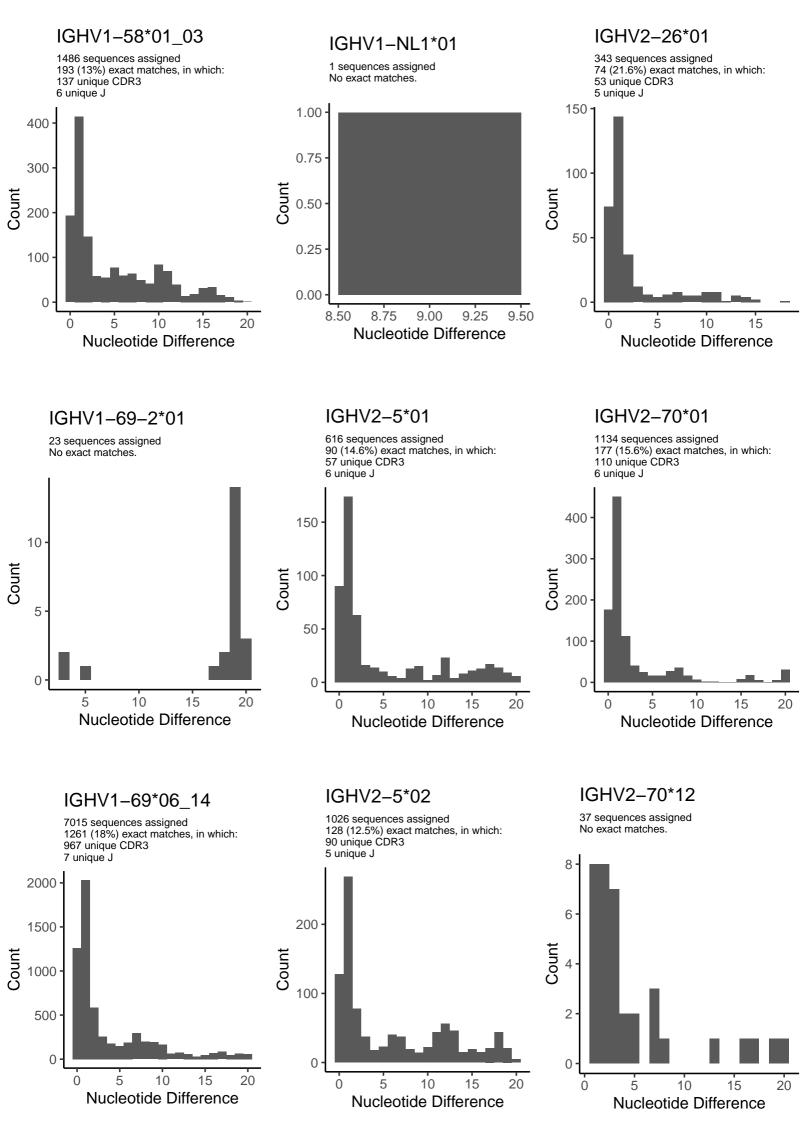
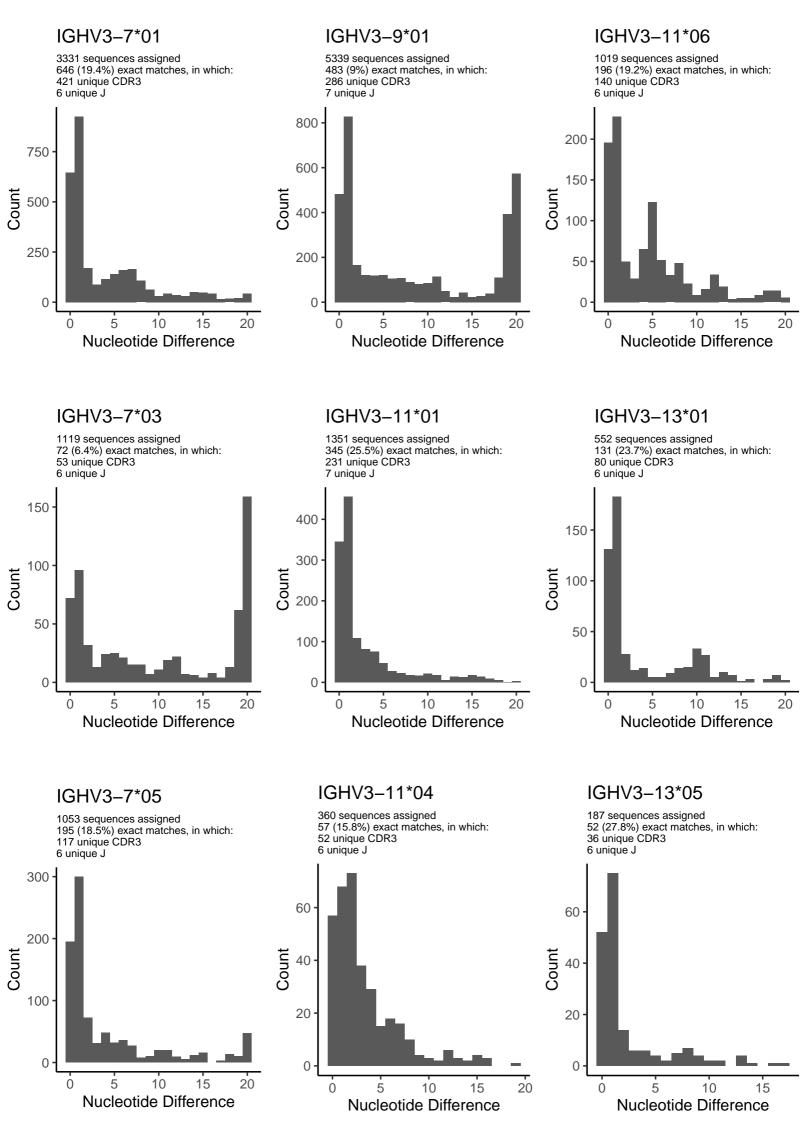


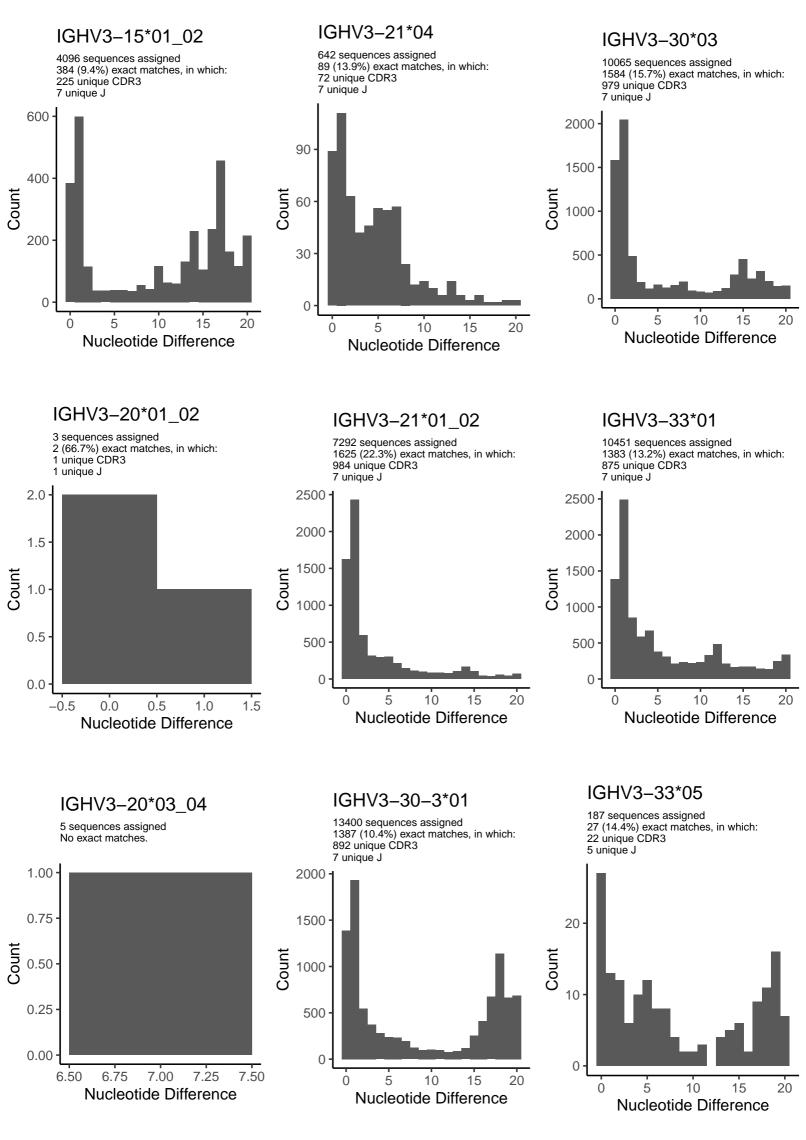
IGHV4-38-2\*02\_A70G- Final 3 nucleotides as a triplet

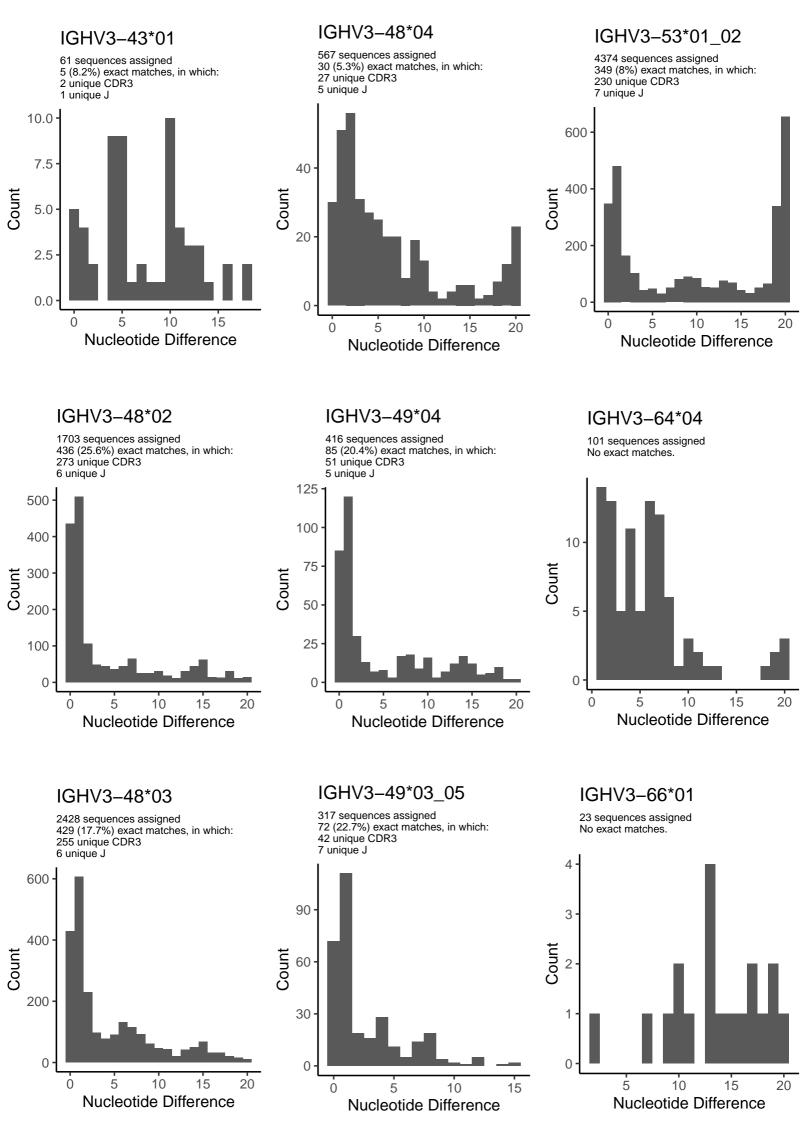


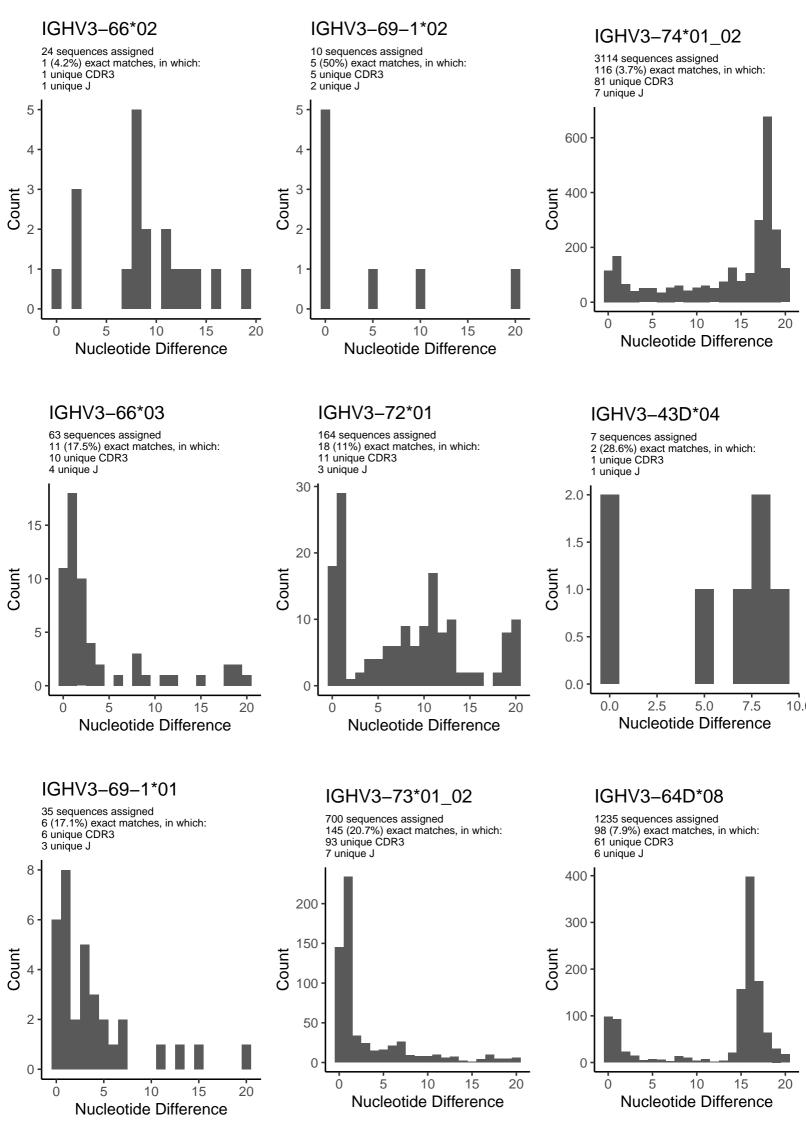


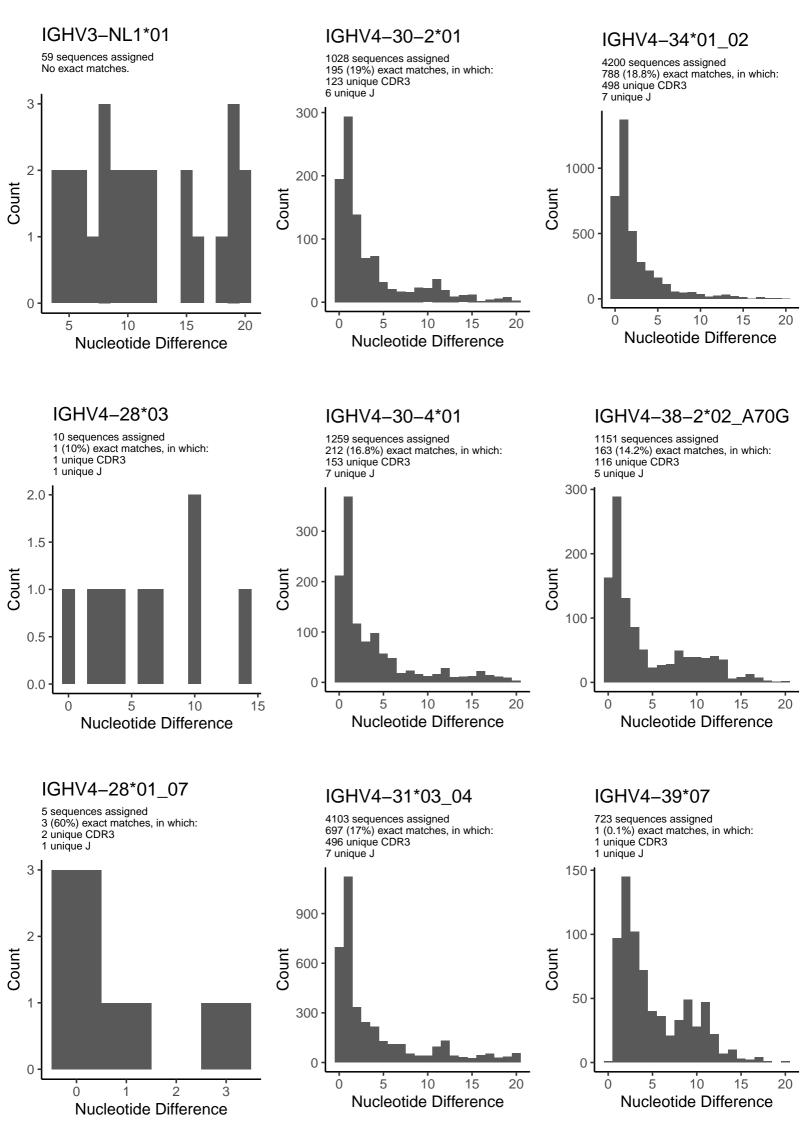


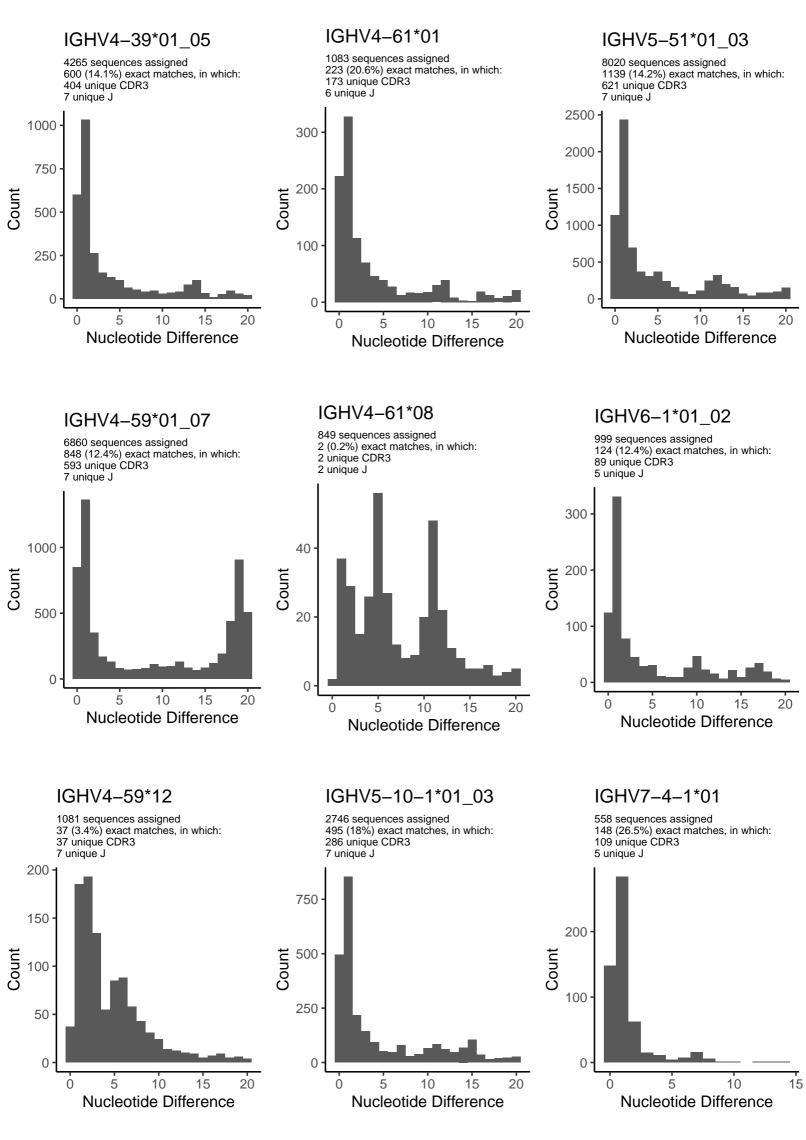






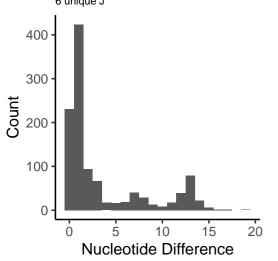






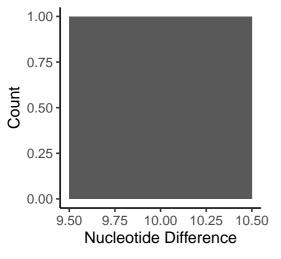
## IGHV7-4-1\*02

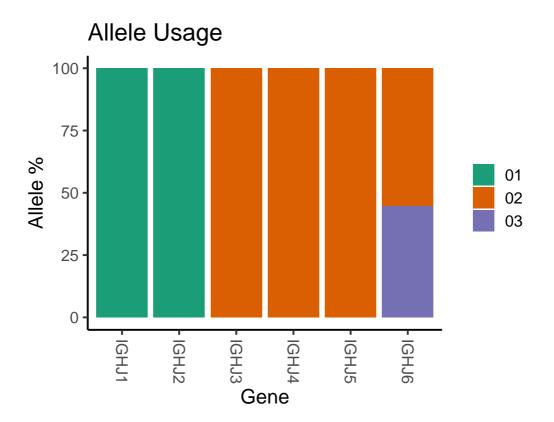
1183 sequences assigned 231 (19.5%) exact matches, in which: 145 unique CDR3 6 unique J



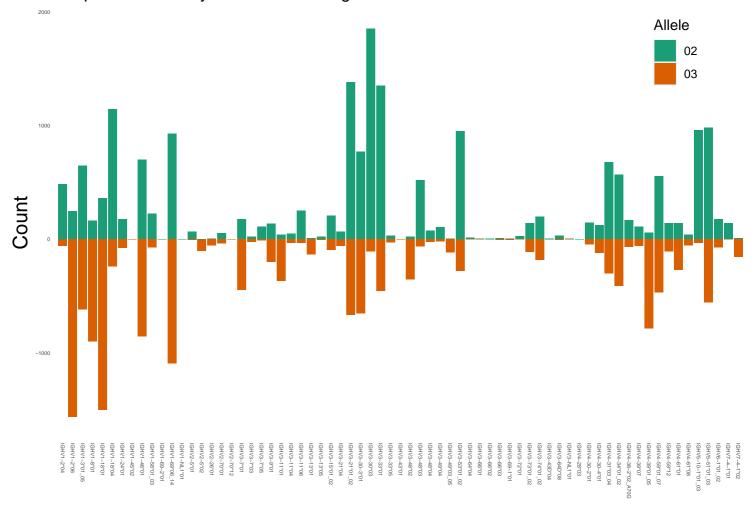
## IGHV7-81\*01

1 sequences assigned No exact matches.





## Sequence Count by IGHJ6 allele usage



Novel sequence(s) IGHV1-69\*01\_12\_13\_G238A IGHV3-48\*03\_T303G 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.

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

Novel sequence(s) IGHV4–59\*02\_G88A are not listed in the genotype and will be ignored.