

ATC

TAA

ACT

AAT

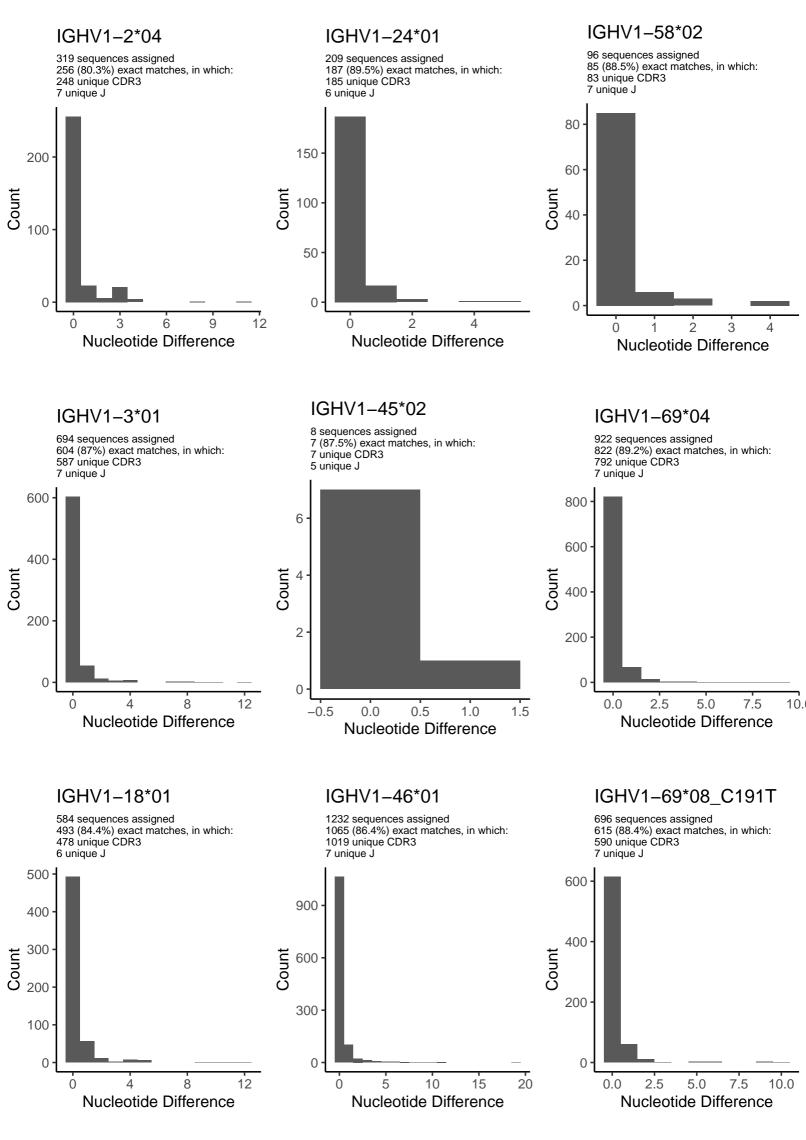
AGA

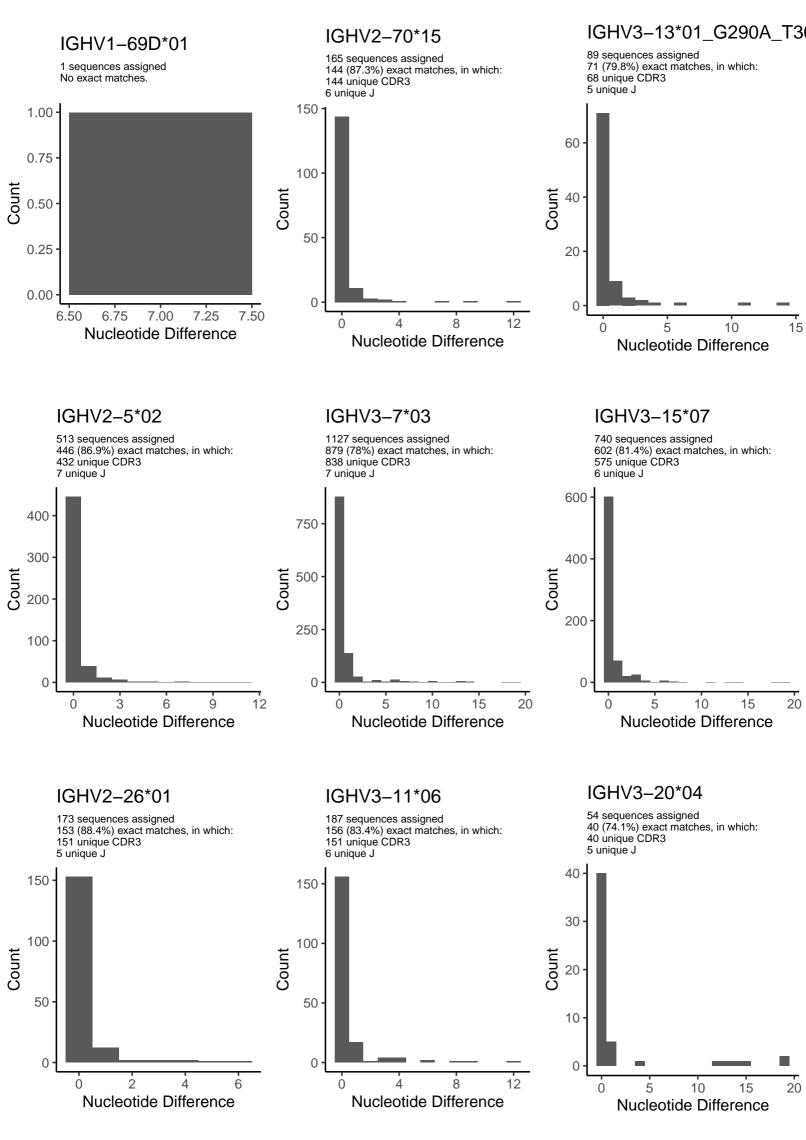
**Triplet** 

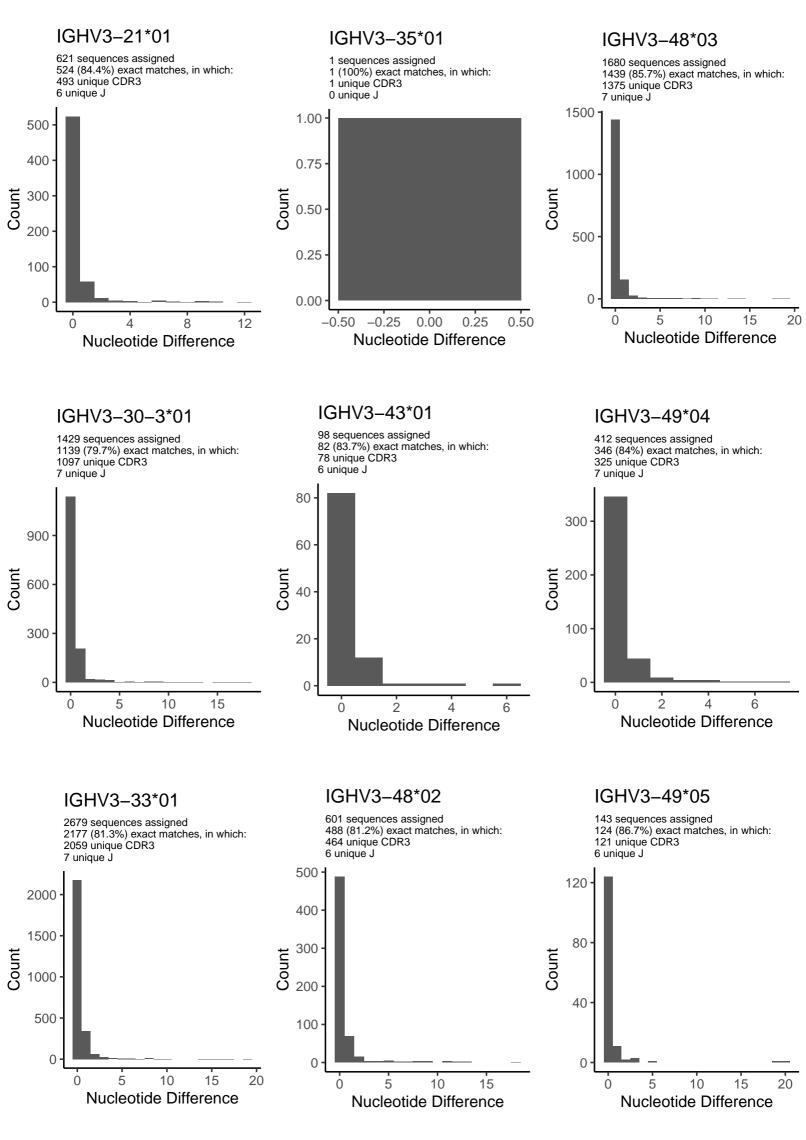
AGG

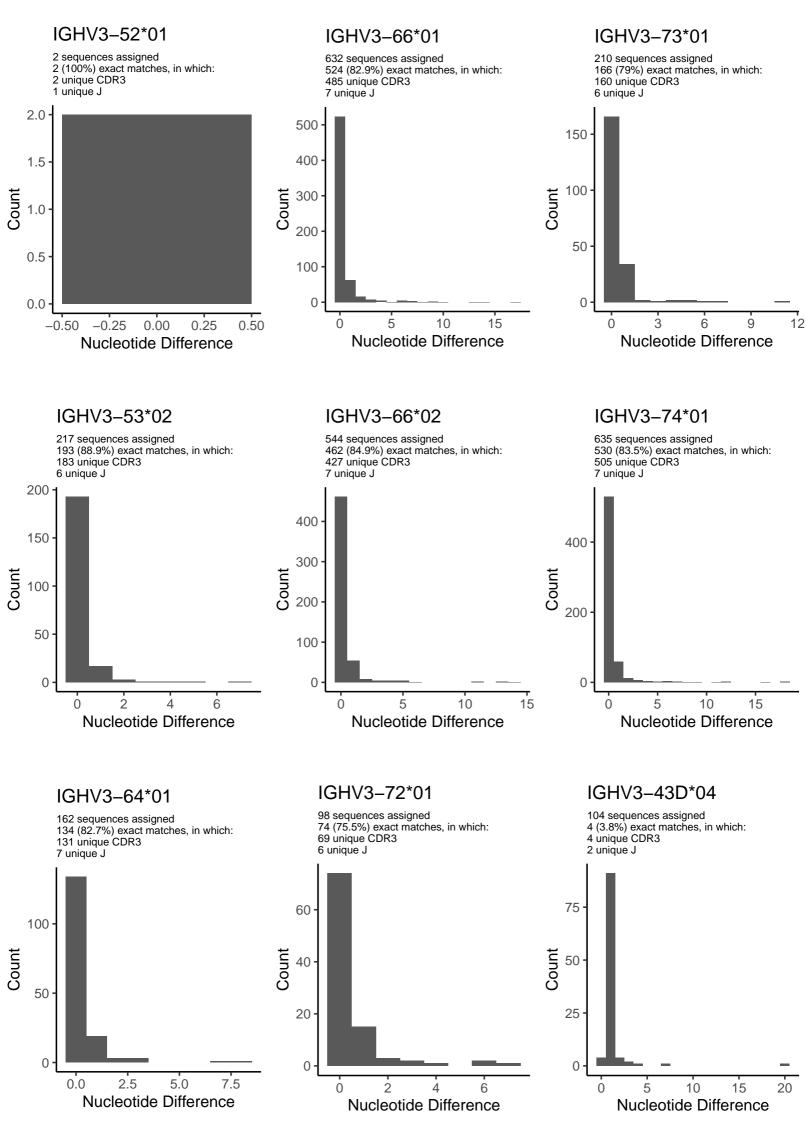
GAC

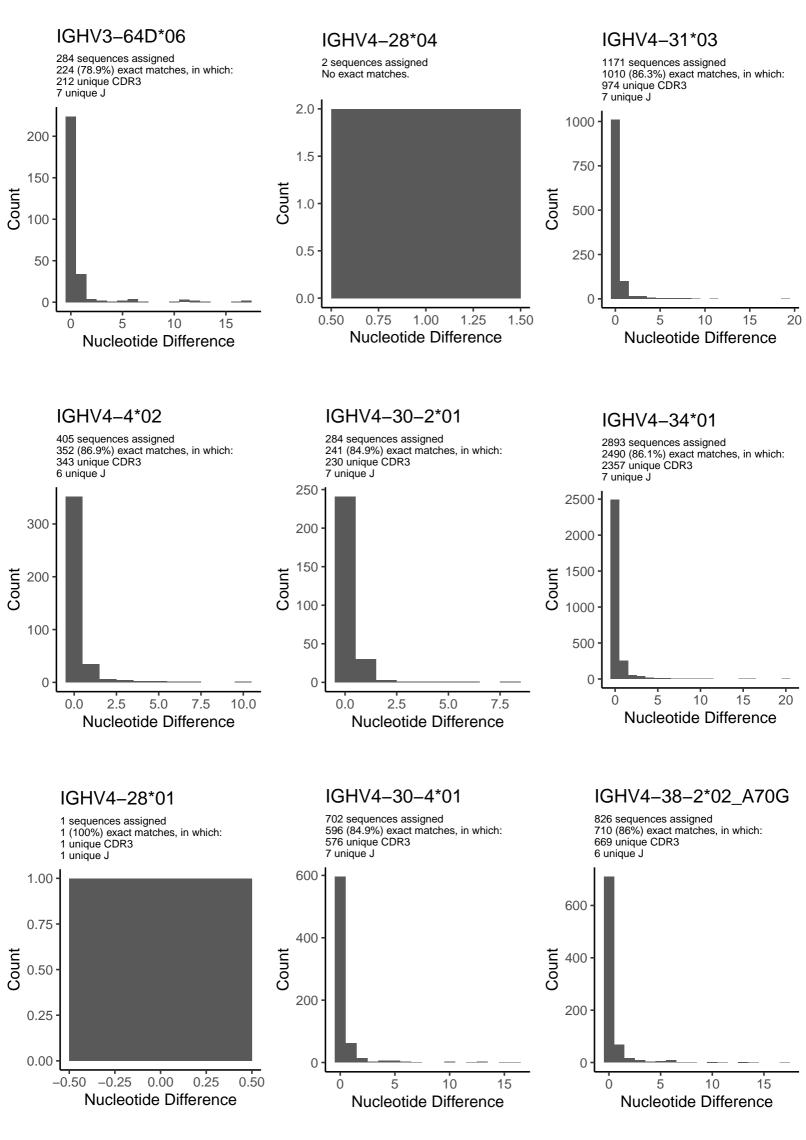
GGG

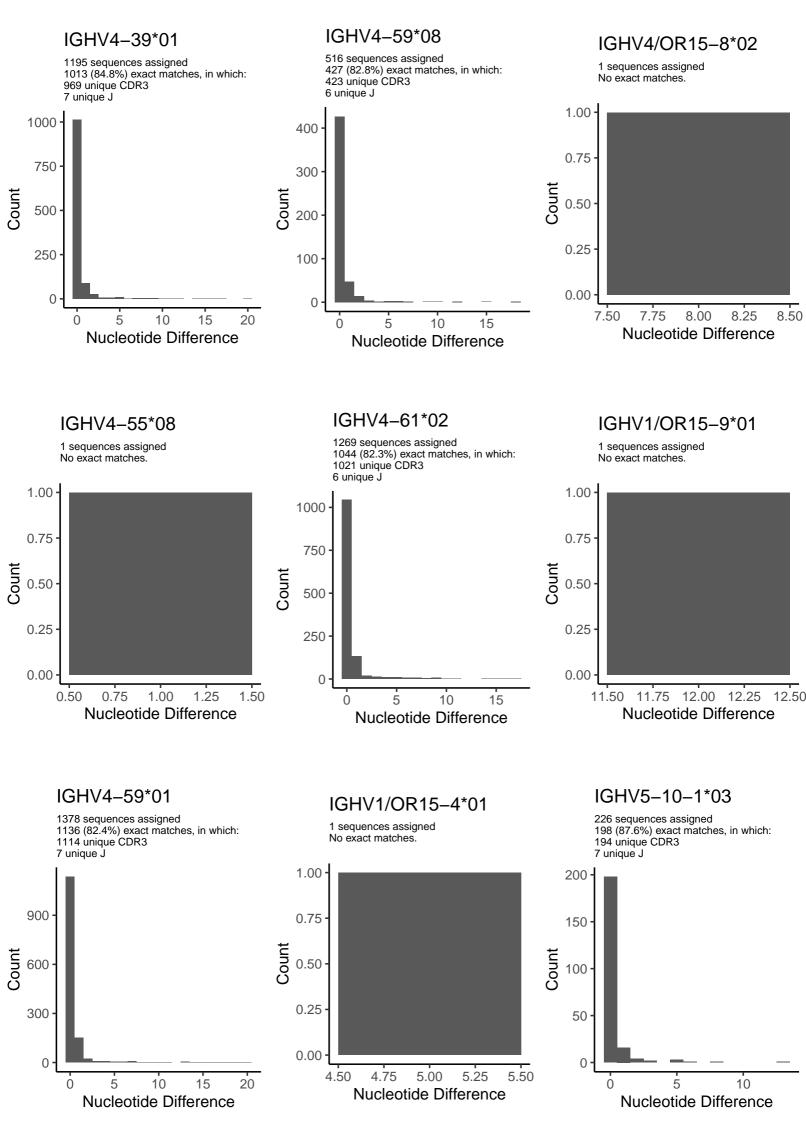








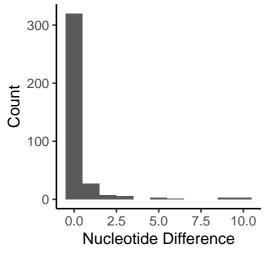




## IGHV7-81\*01 IGHV5-51\*01 1422 sequences assigned 1229 (86.4%) exact matches, in which: 1190 unique CDR3 sequences assigned 1 (100%) exact matches, in which: 1 unique CDR3 1 unique J 7 unique J 1250 -1.00 1000 0.75 750 Count Count Count 500 0.25 250 0 0.00 15 0.25 0.50 5 10 -0.50 -0.25 0.00 **Nucleotide Difference Nucleotide Difference**

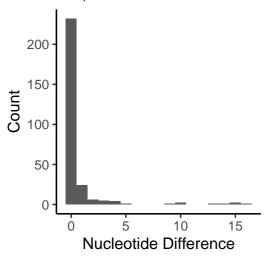
## IGHV6-1\*01

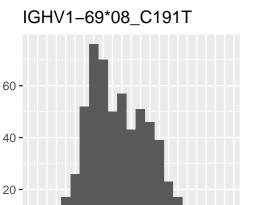
372 sequences assigned 320 (86%) exact matches, in which: 312 unique CDR3 7 unique J



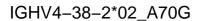
## IGHV7-4-1\*02

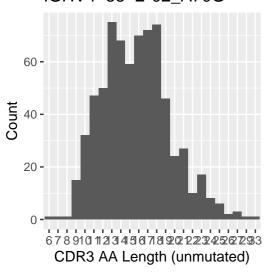
280 sequences assigned 232 (82.9%) exact matches, in which: 220 unique CDR3 6 unique J

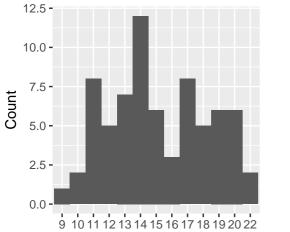




578910112314510718192022324526732 CDR3 AA Length (unmutated)

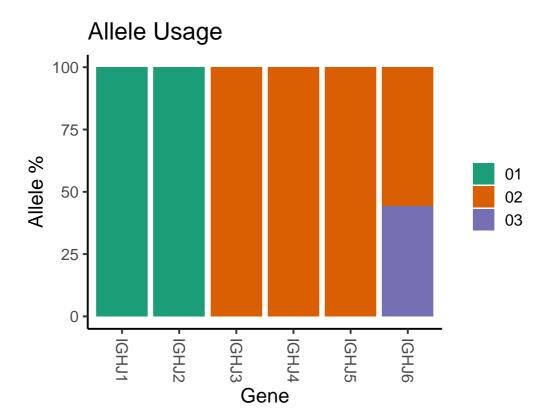






CDR3 AA Length (unmutated)

IGHV3-13\*01\_G290A\_T300C



## Sequence Count by IGHJ6 allele usage

