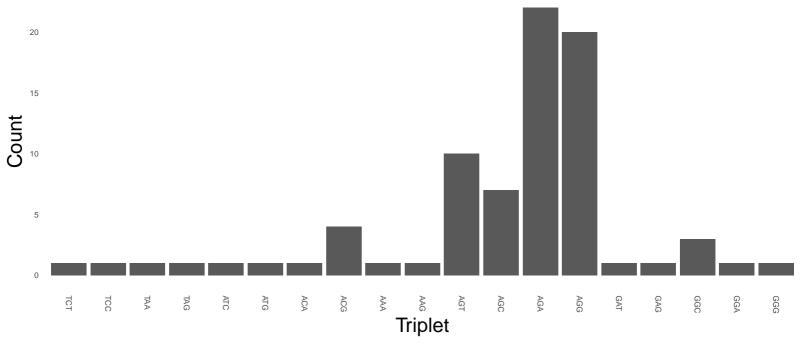
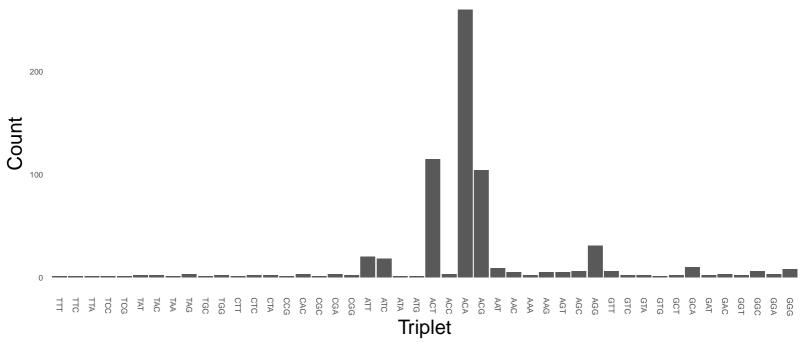


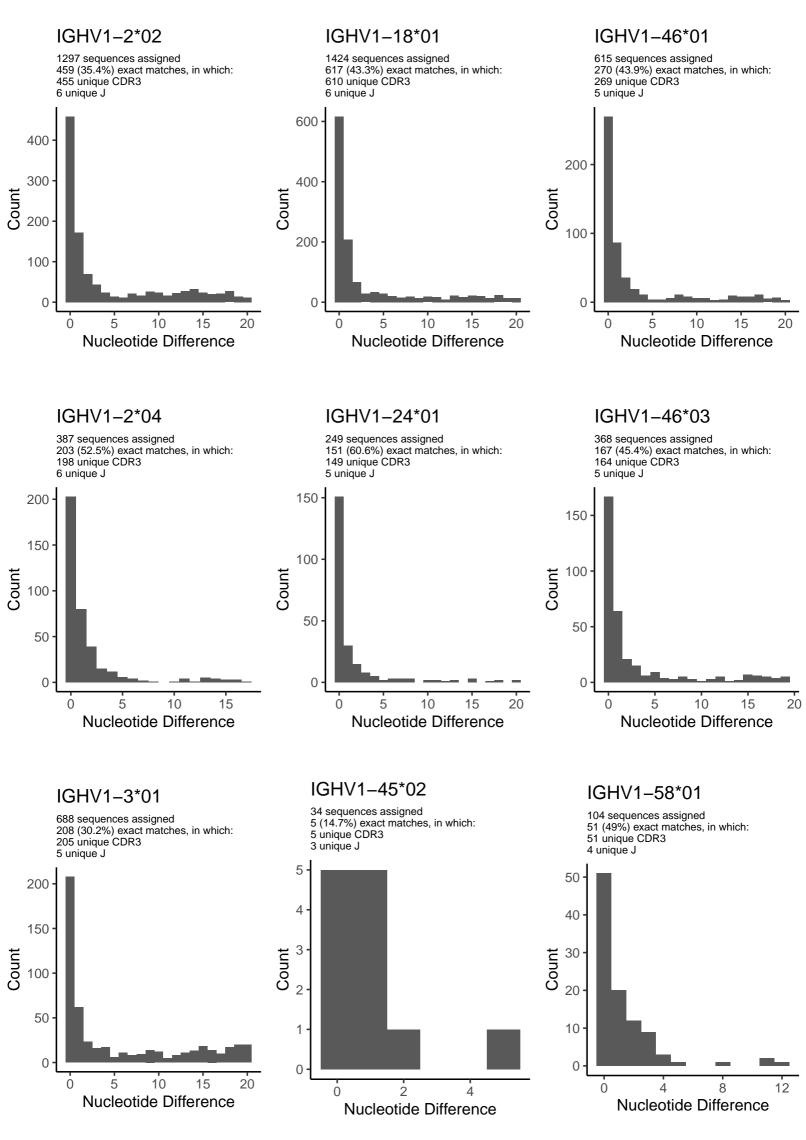
Position

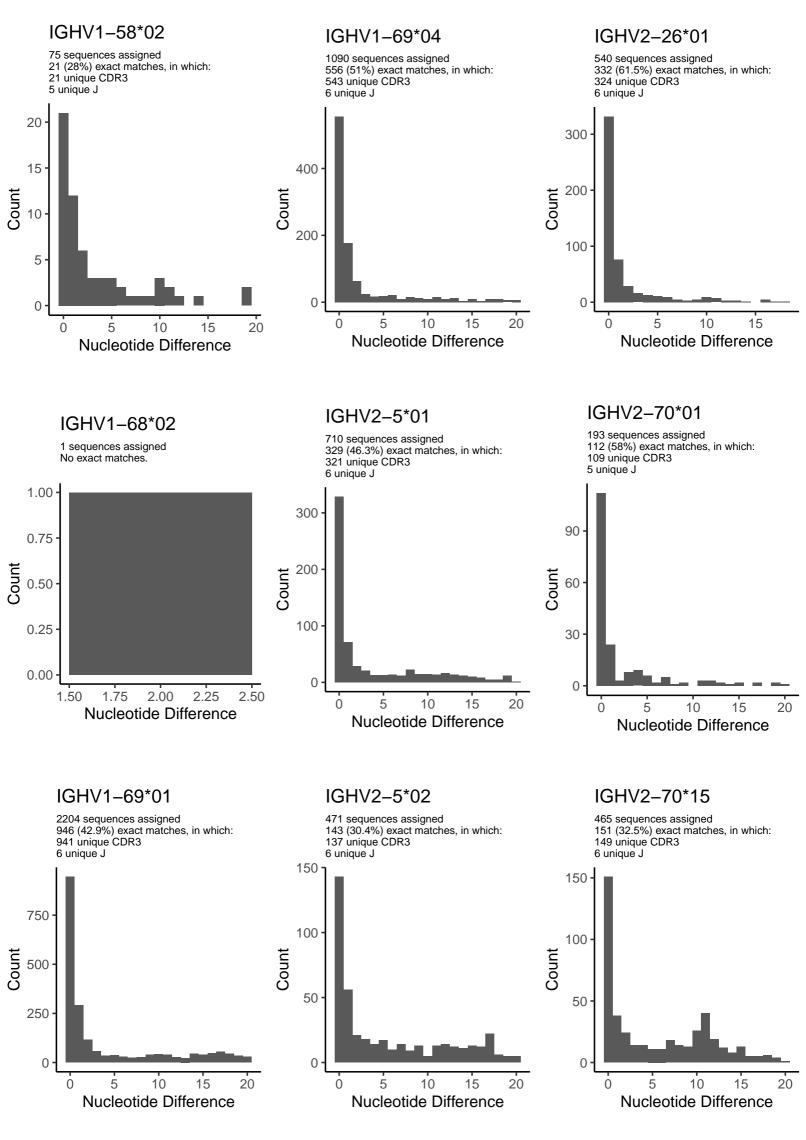
IGHV3-13\*01\_G290A\_T300C- Final 3 nucleotides as a triplet

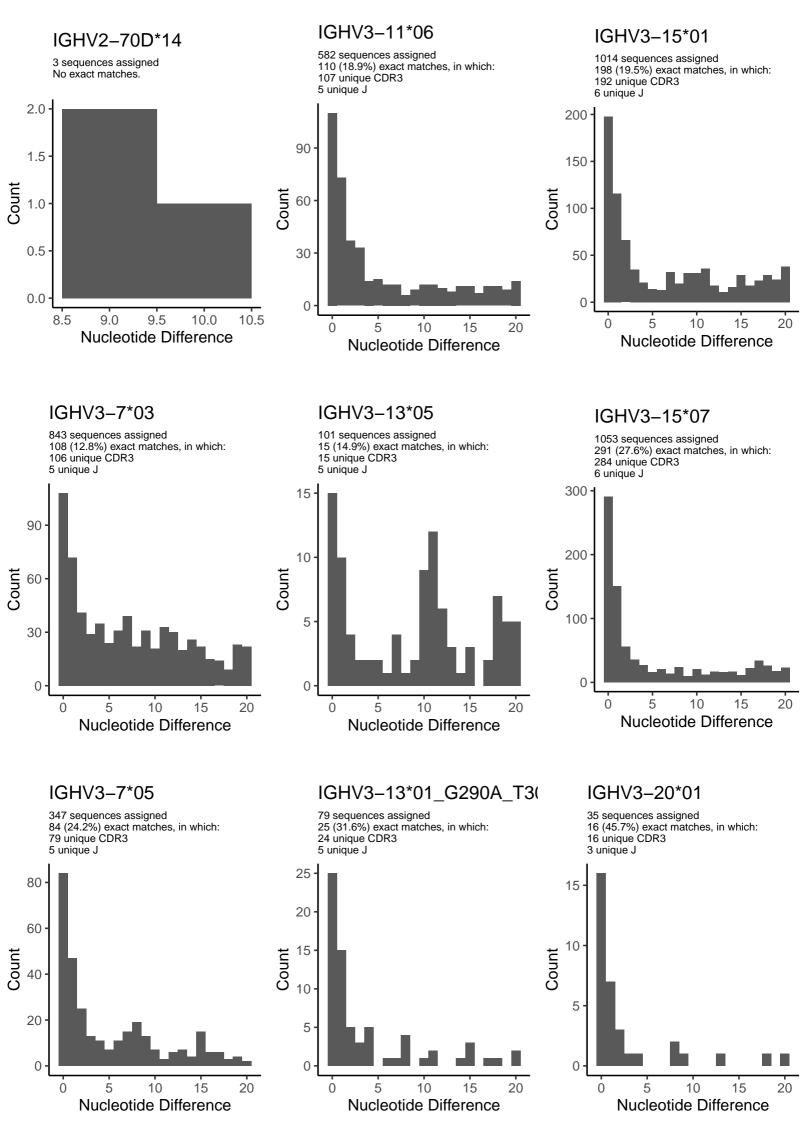


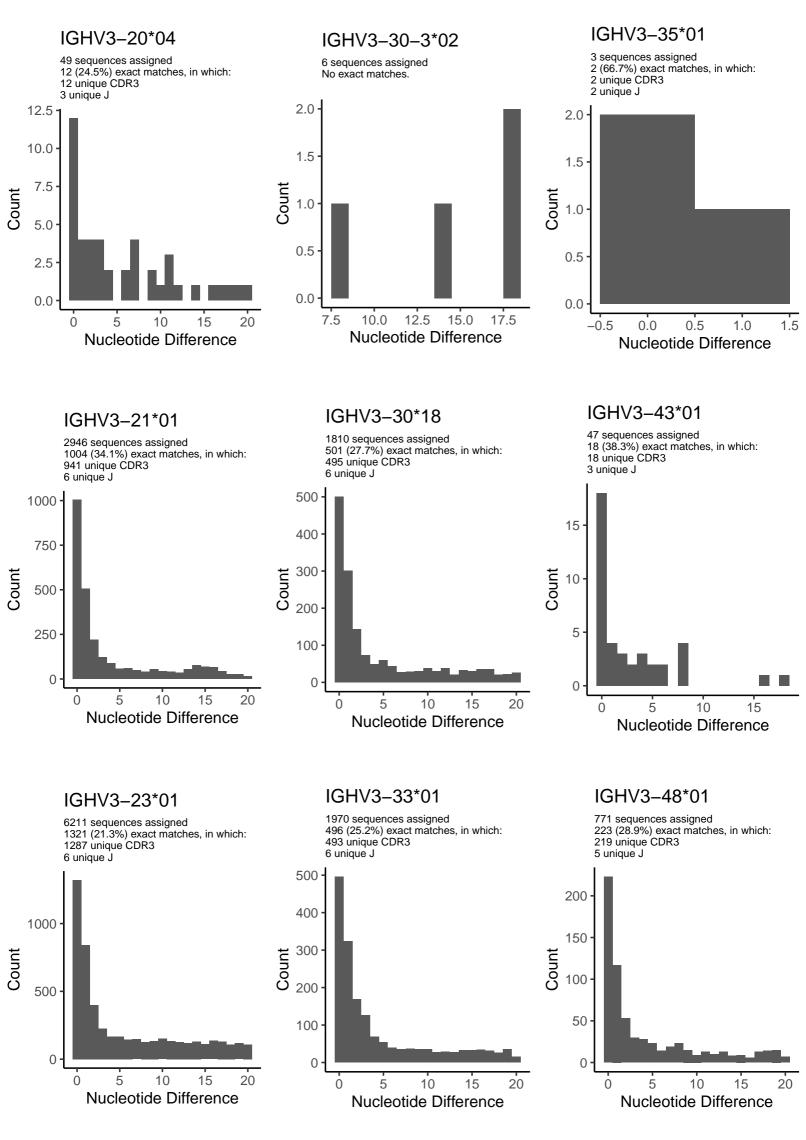
IGHV4-59\*08\_A291G- Final 3 nucleotides as a triplet

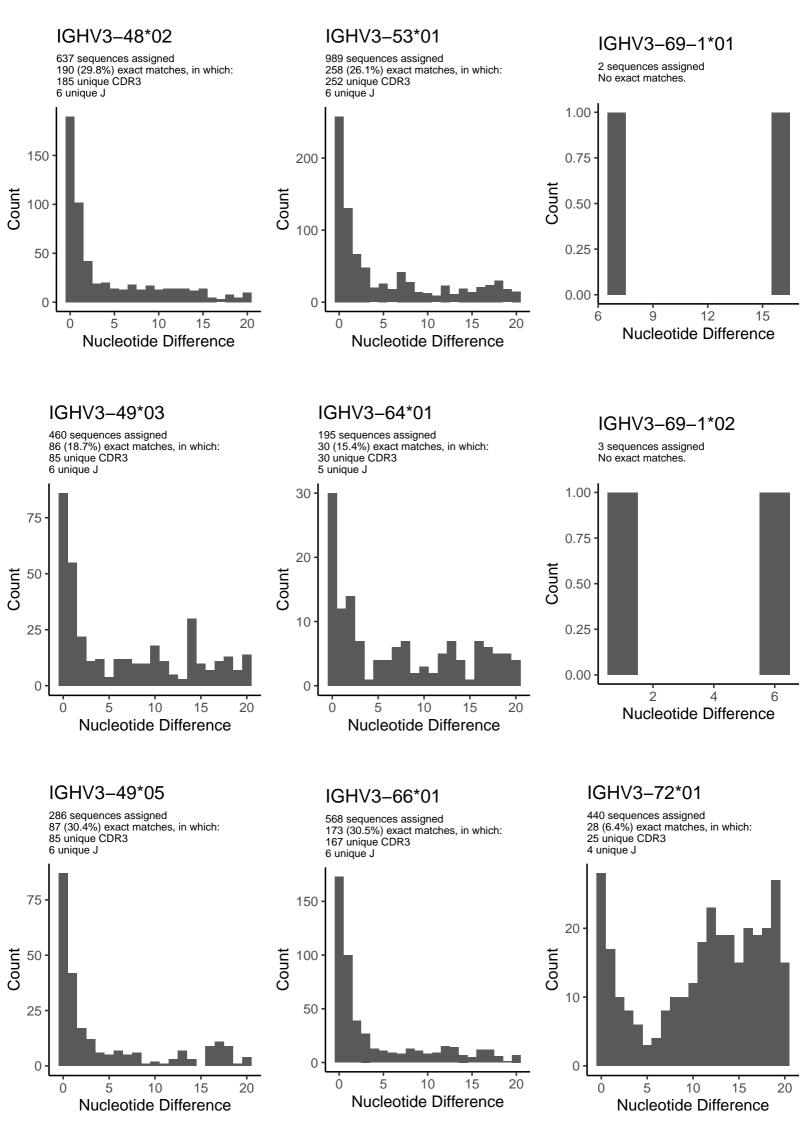


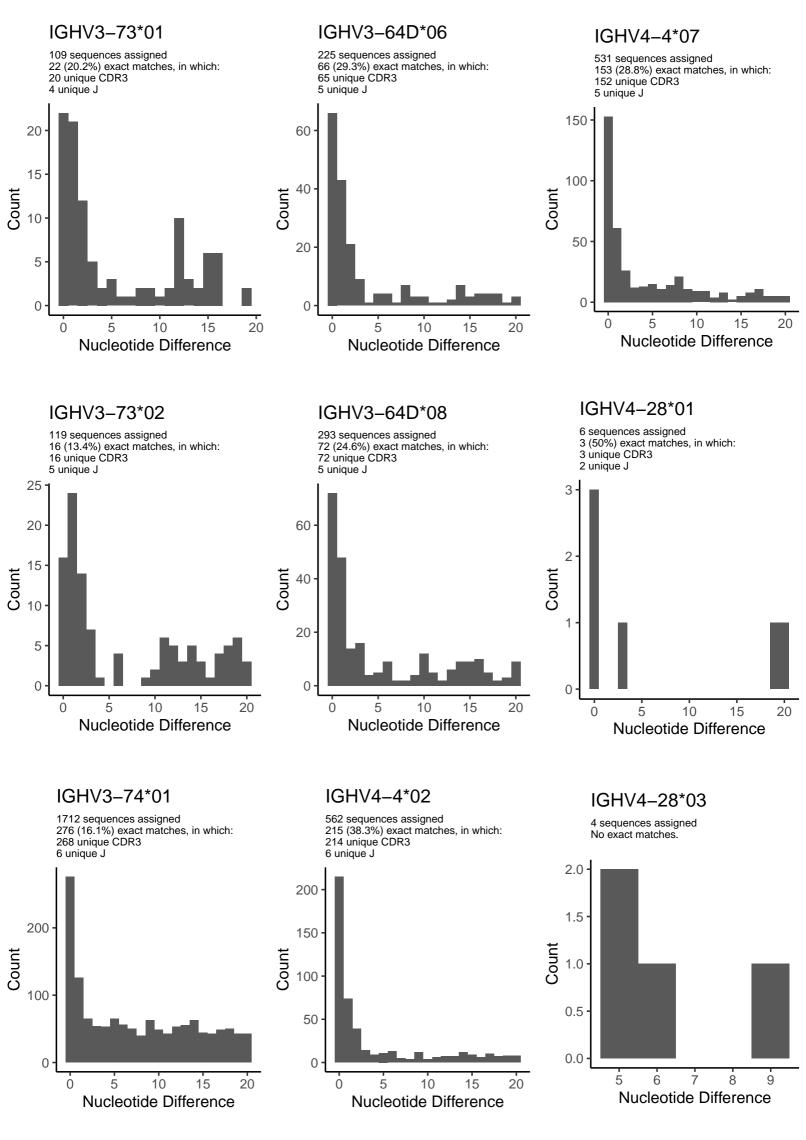


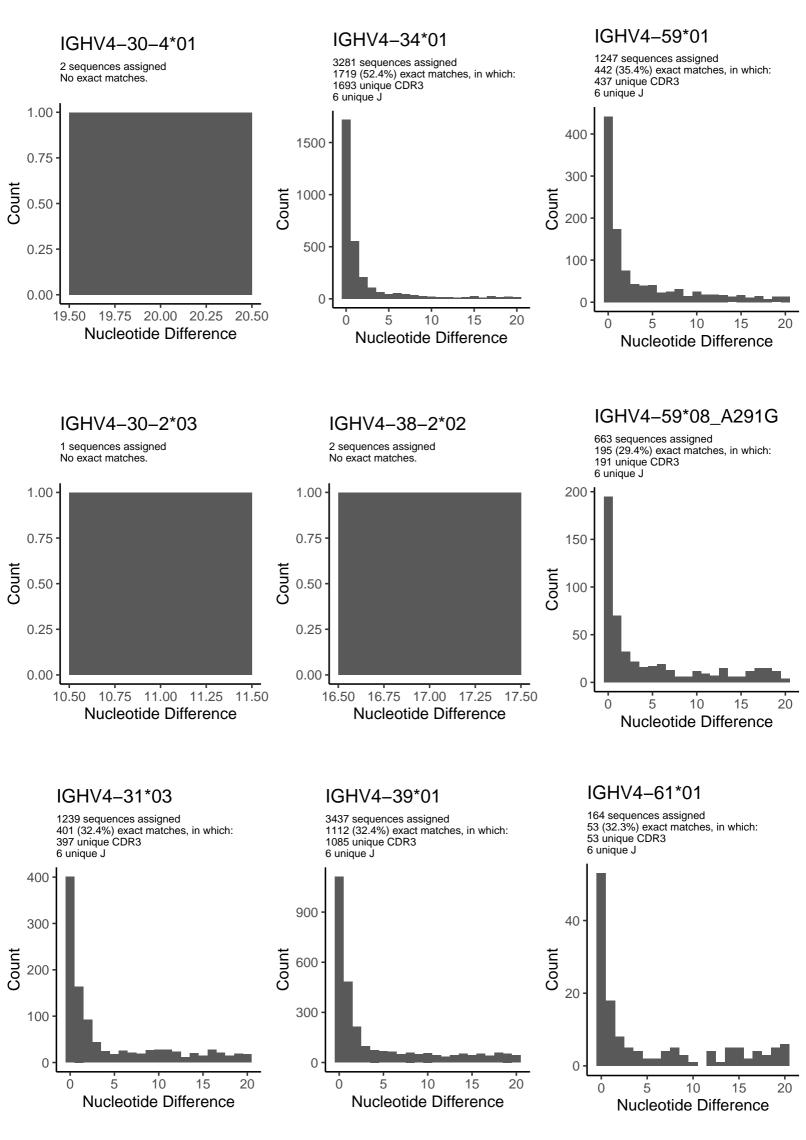






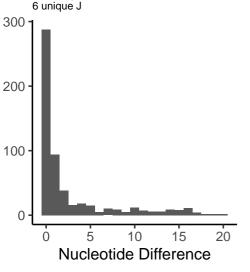






# IGHV5-10-1\*03

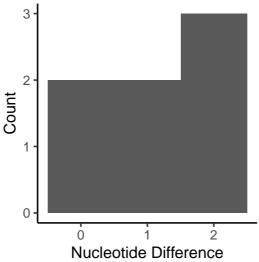
608 sequences assigned 288 (47.4%) exact matches, in which: 280 unique CDR3



Count

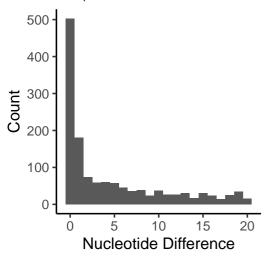
## IGHV7-4-1\*01

7 sequences assigned 2 (28.6%) exact matches, in which: 2 unique CDR3 2 unique J



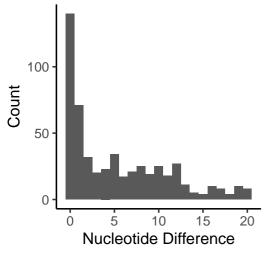
#### IGHV5-51\*01

1480 sequences assigned 503 (34%) exact matches, in which: 492 unique CDR3 6 unique J

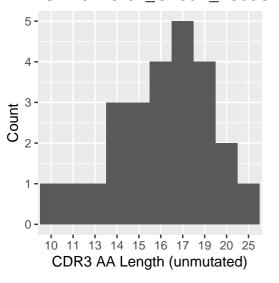


### IGHV6-1\*01

589 sequences assigned 140 (23.8%) exact matches, in which: 138 unique CDR3 5 unique J



# IGHV3-13\*01\_G290A\_T300C



# IGHV4-59\*08\_A291G

