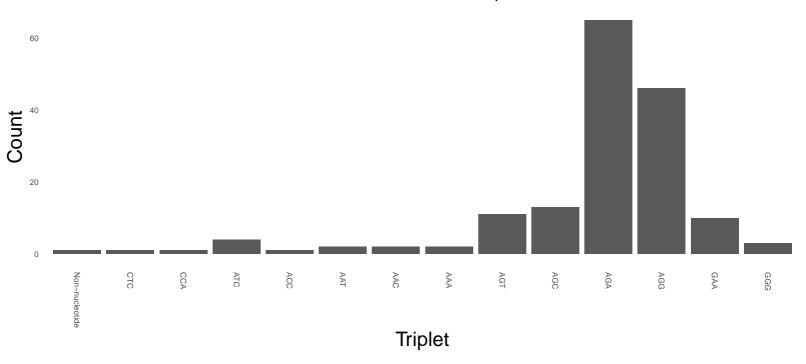
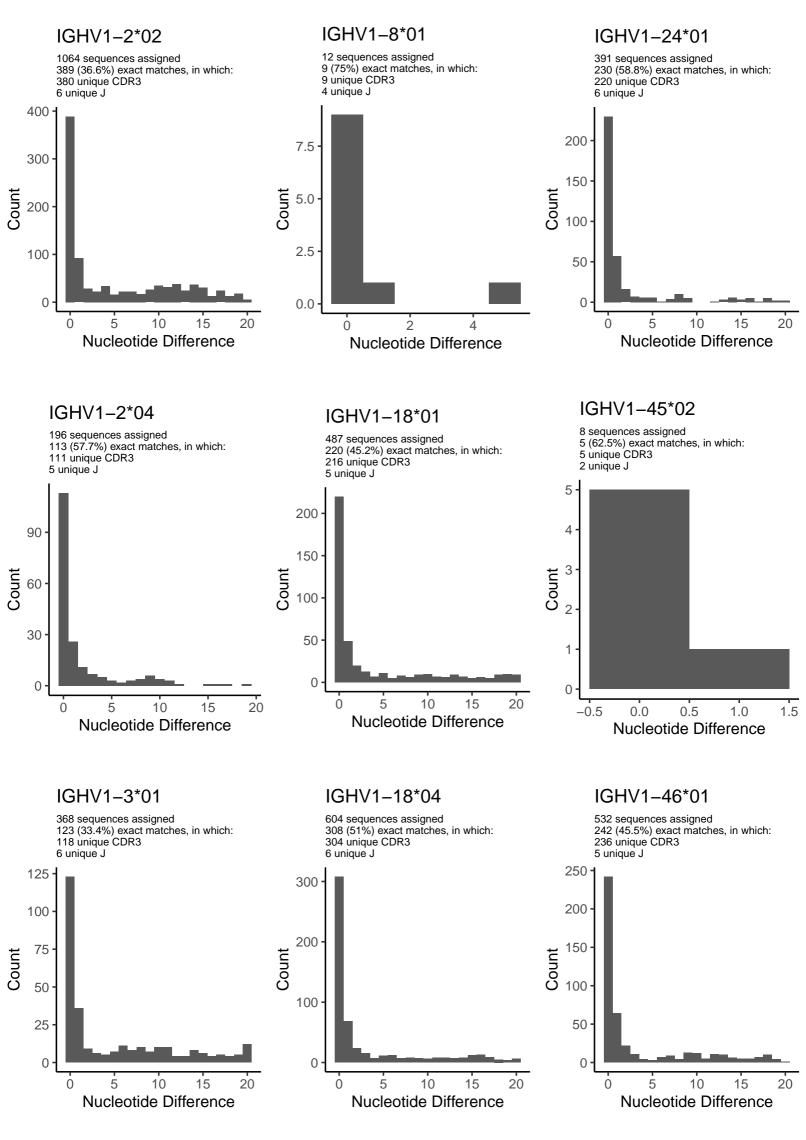
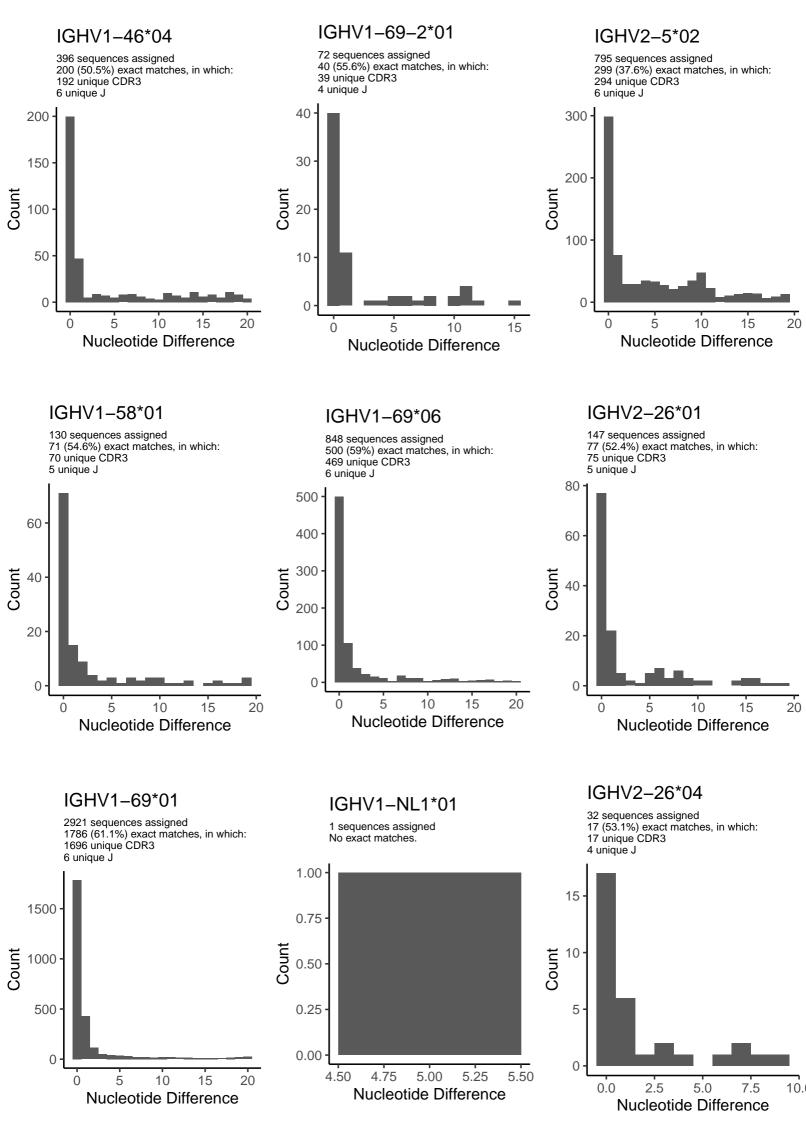
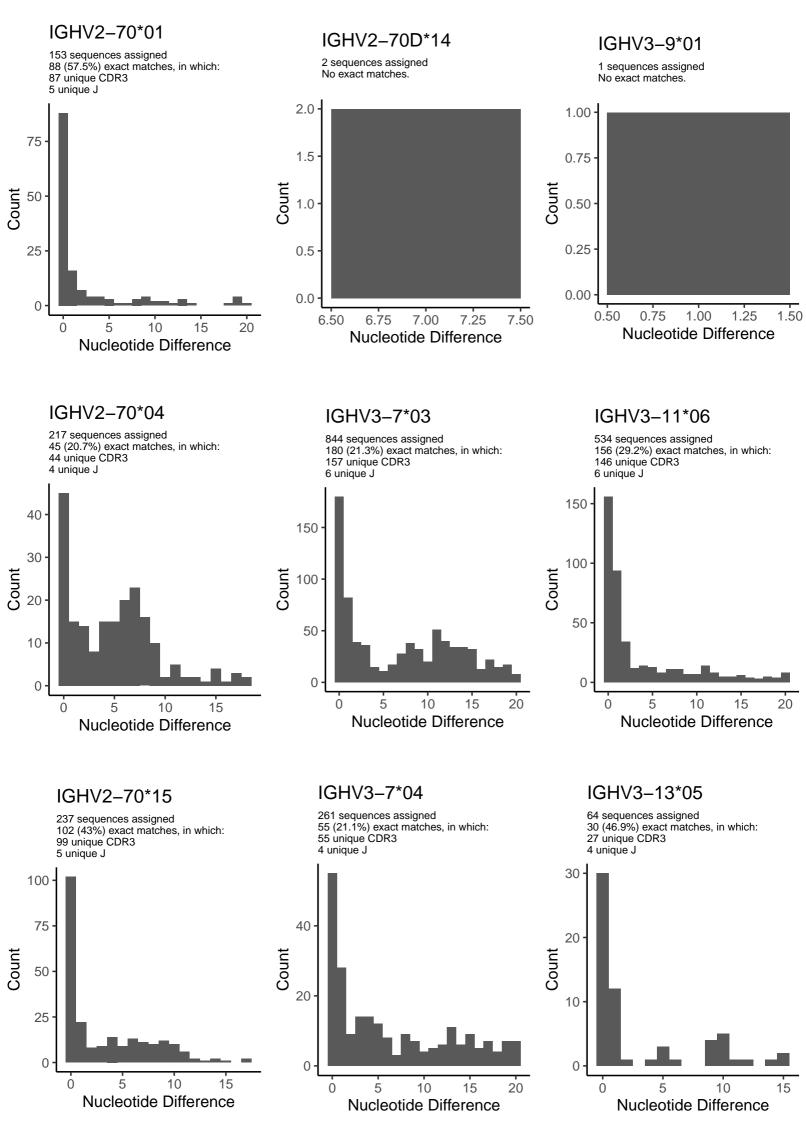


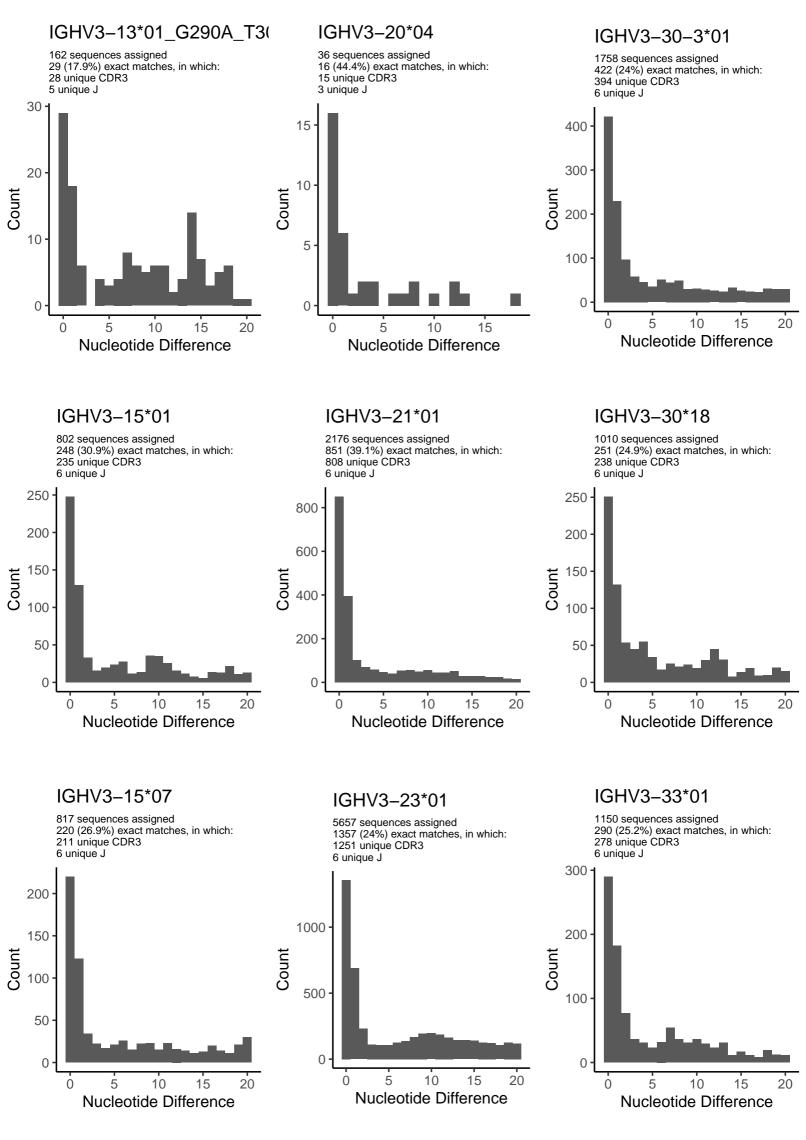
IGHV3-13\*01\_G290A\_T300C- Final 3 nucleotides as a triplet

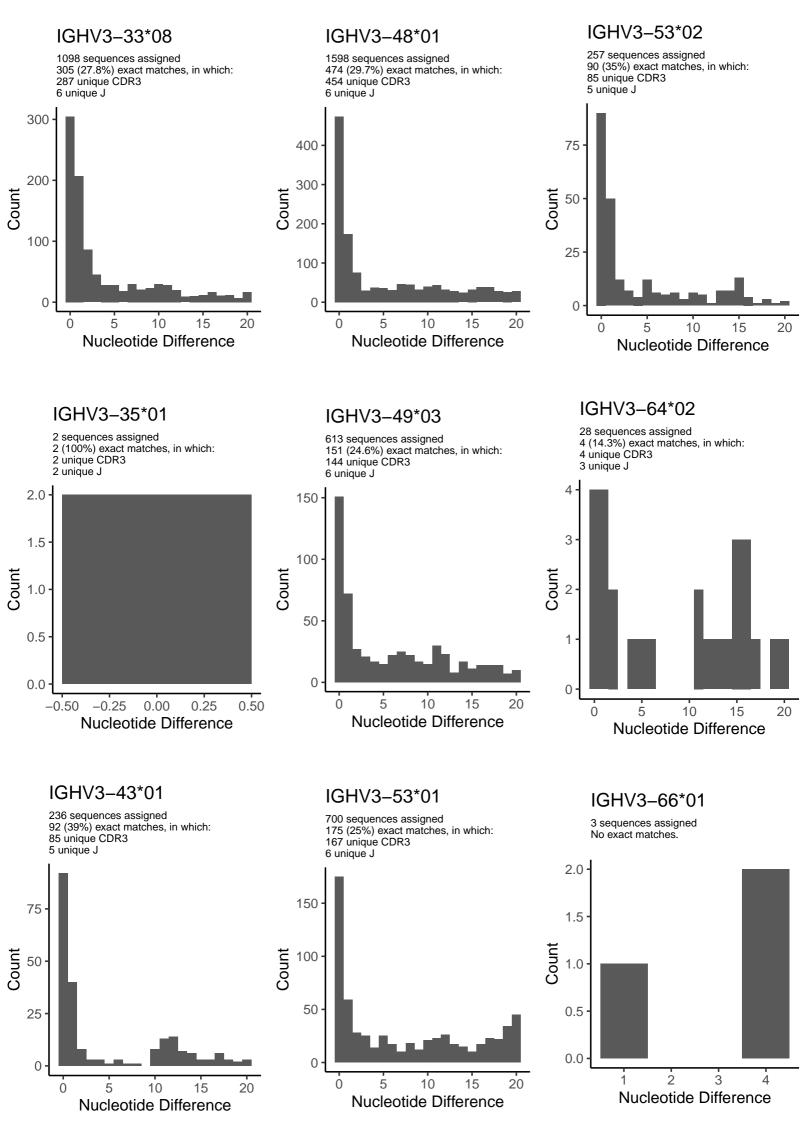


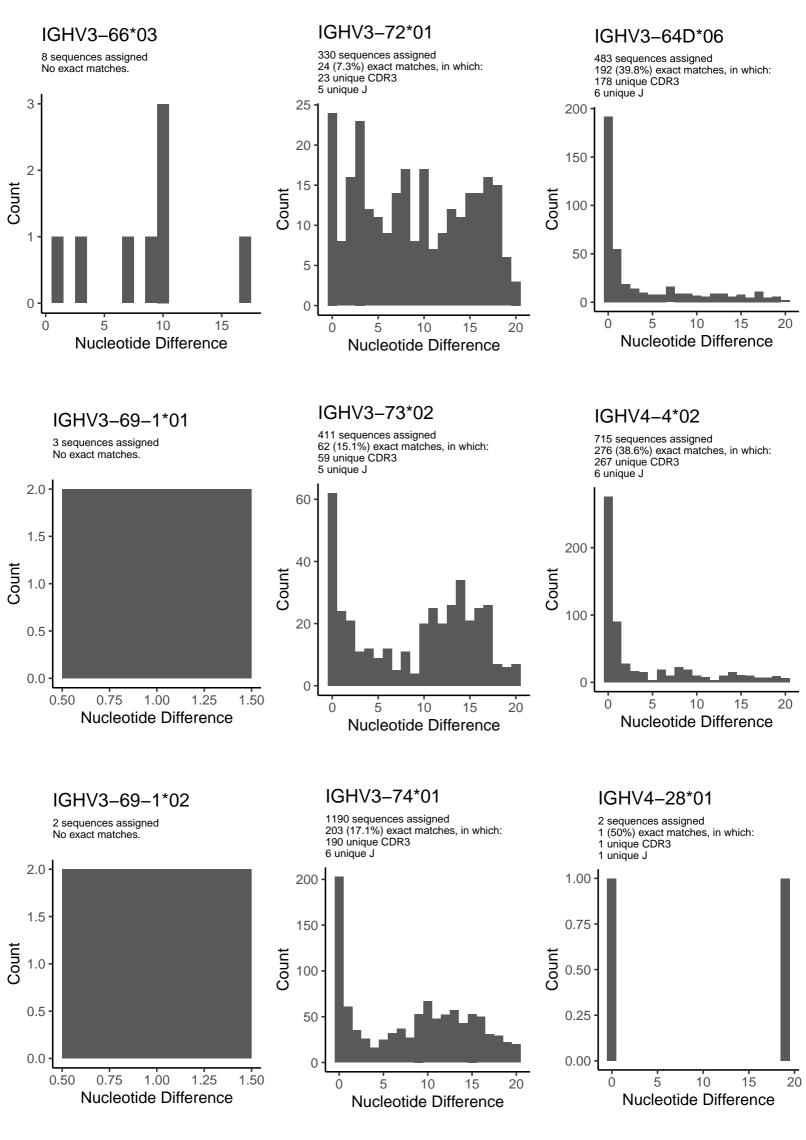


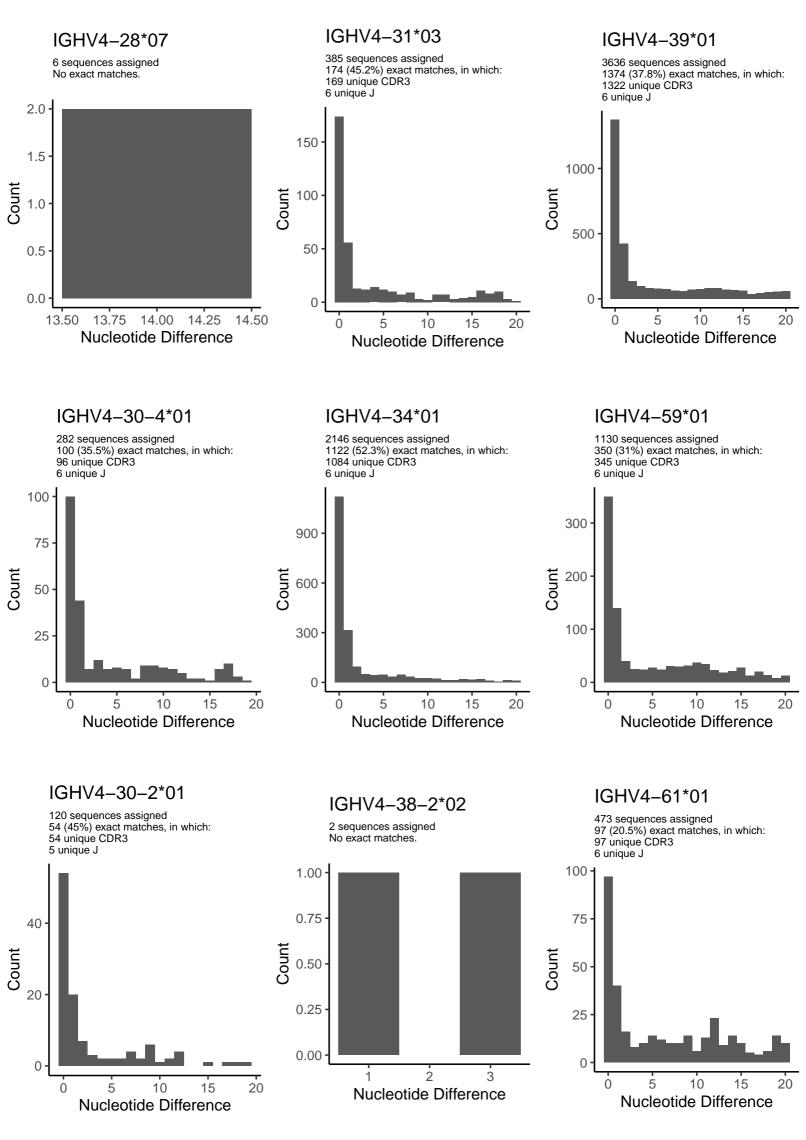












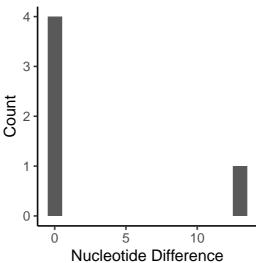
## 538 sequences assigned 251 (46.7%) exact matches, in which: 242 unique CDR3 5 unique J 250 200 150 50 Nucleotide Difference

IGHV5-10-1\*03

## IGHV7-4-1\*01

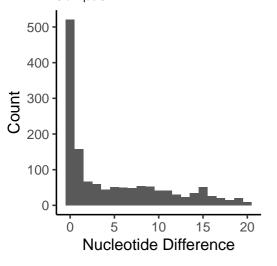
5 sequences assigned 4 (80%) exact matches, in which: 4 unique CDR3

3 unique J



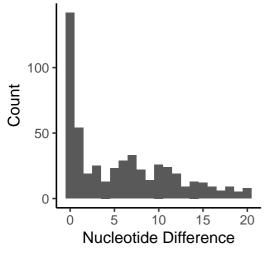
## IGHV5-51\*01

1517 sequences assigned 521 (34.3%) exact matches, in which: 507 unique CDR3 6 unique J



## IGHV6-1\*01

554 sequences assigned 142 (25.6%) exact matches, in which: 137 unique CDR3 5 unique J



IGHV3-13\*01\_G290A\_T300C

