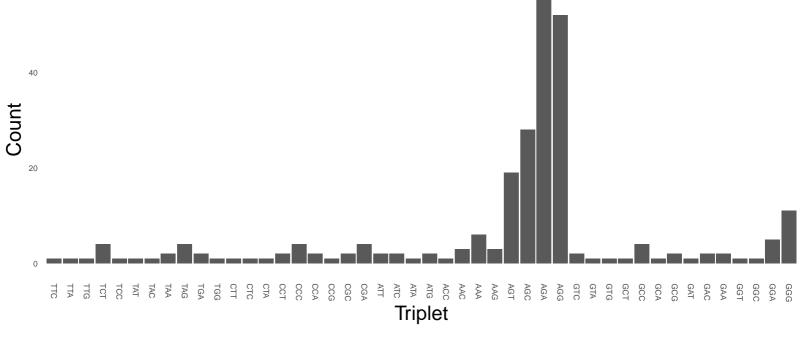
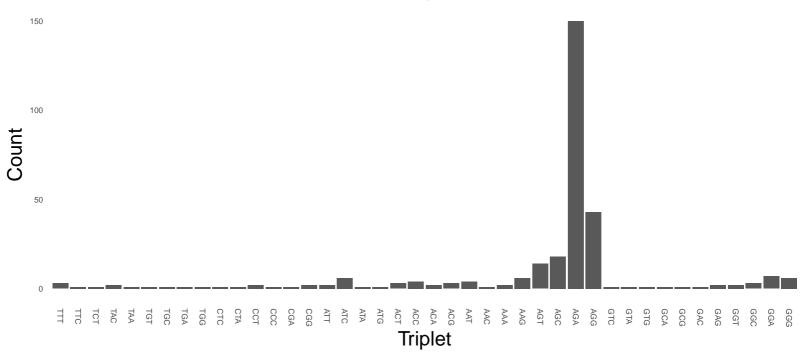


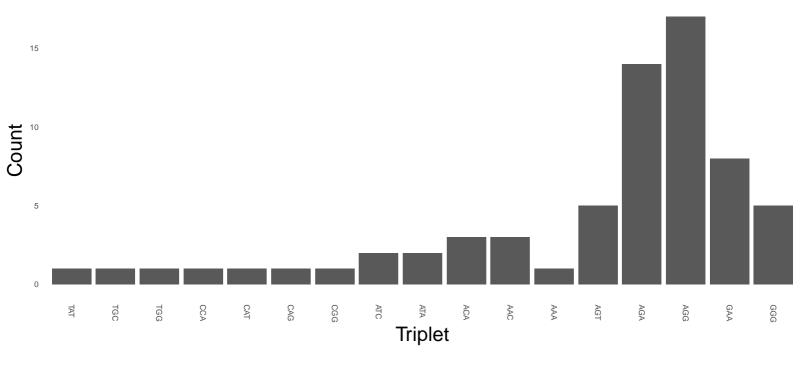
IGHV1-69\*12\_G48A- Final 3 nucleotides as a triplet

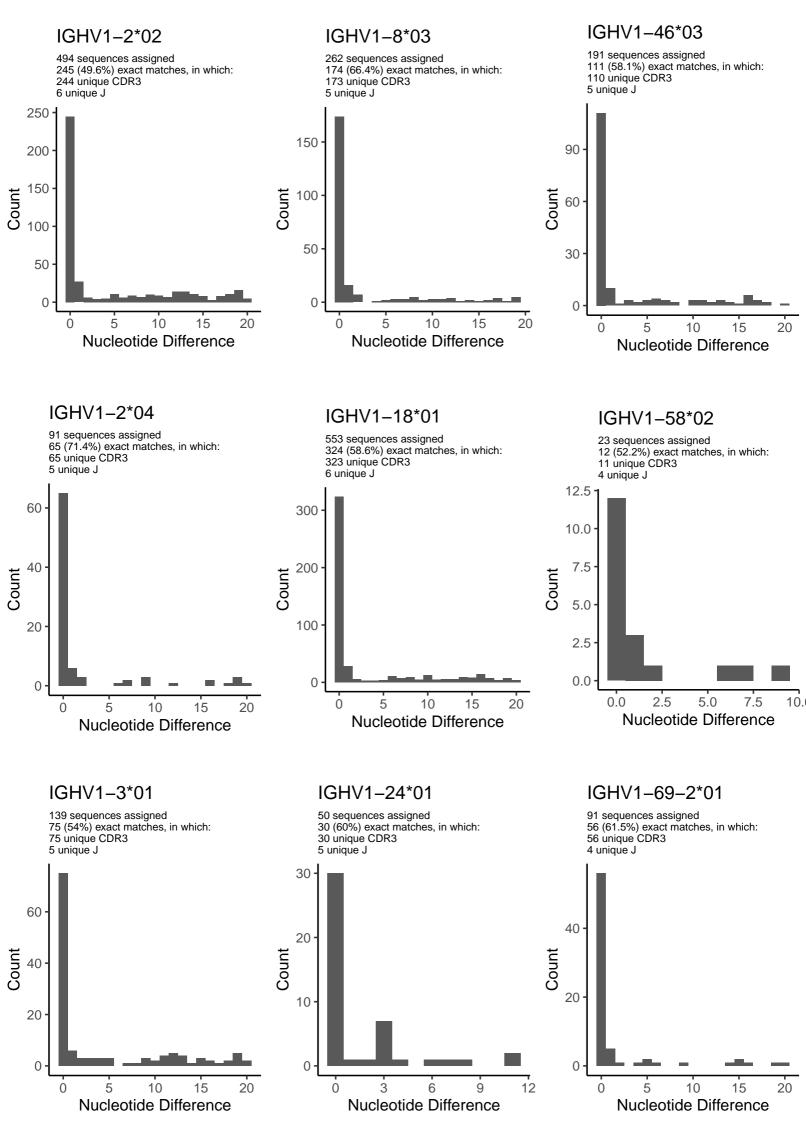


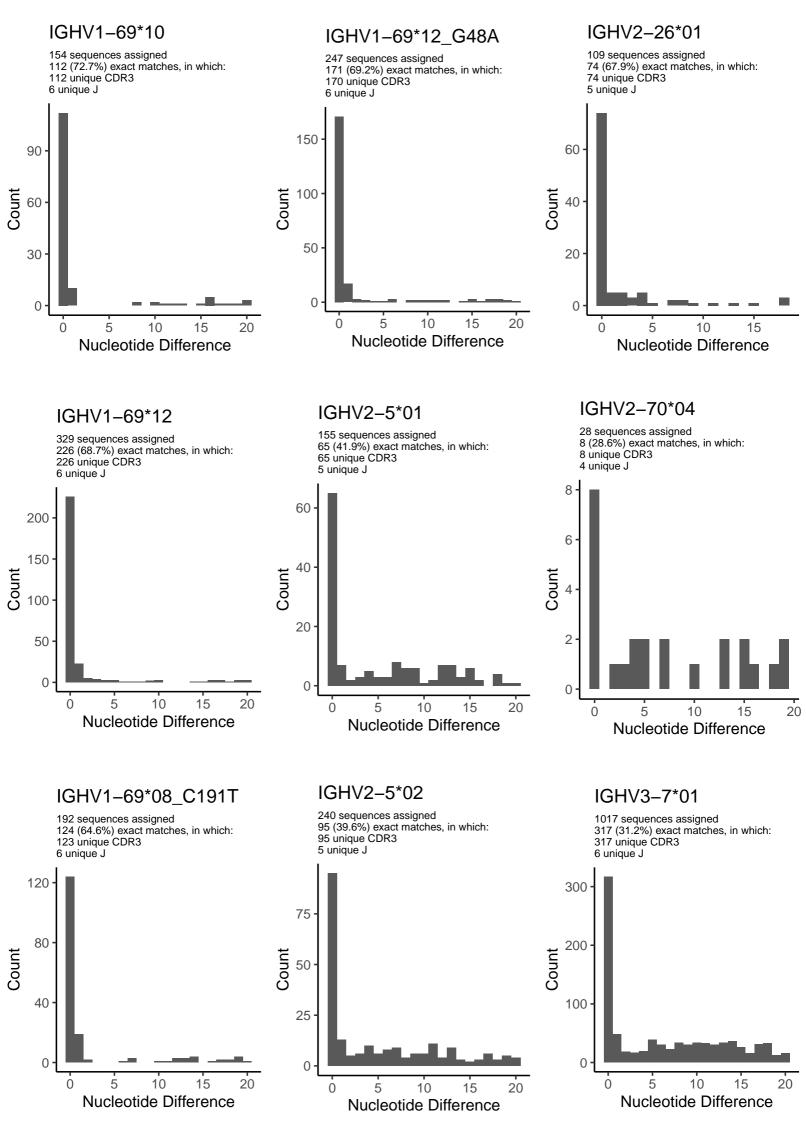
IGHV3-48\*01\_A39C- Final 3 nucleotides as a triplet

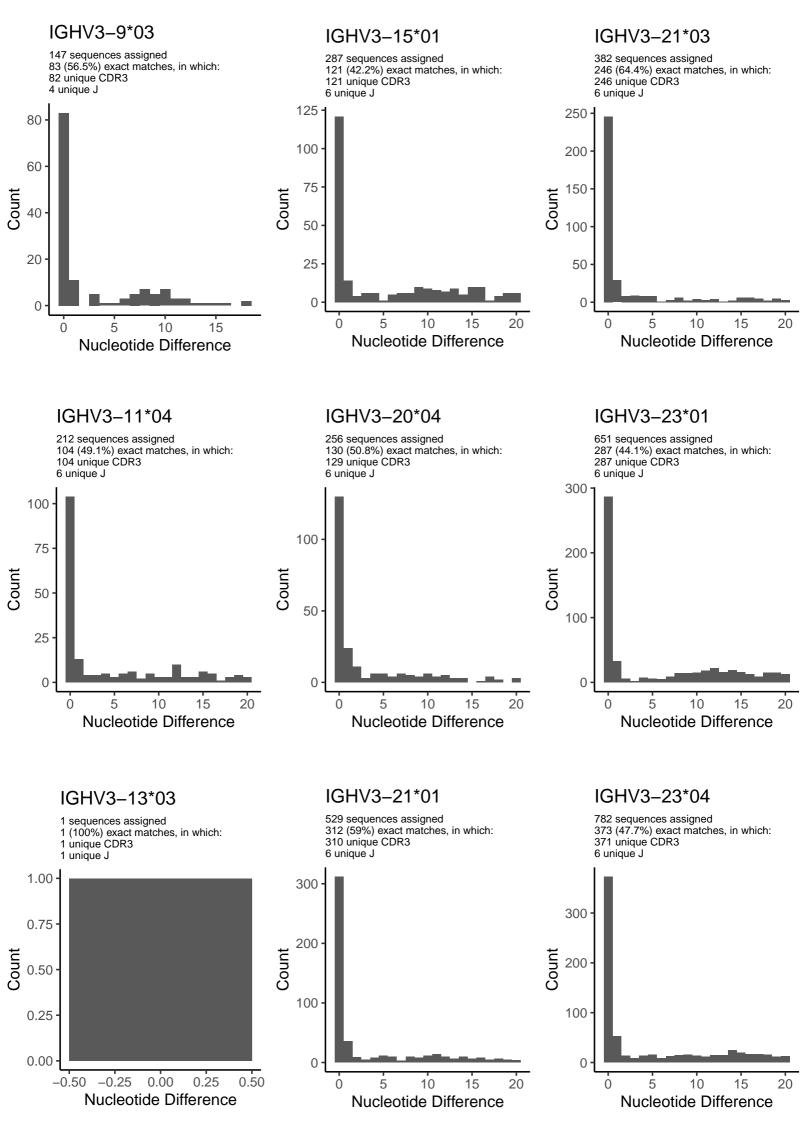


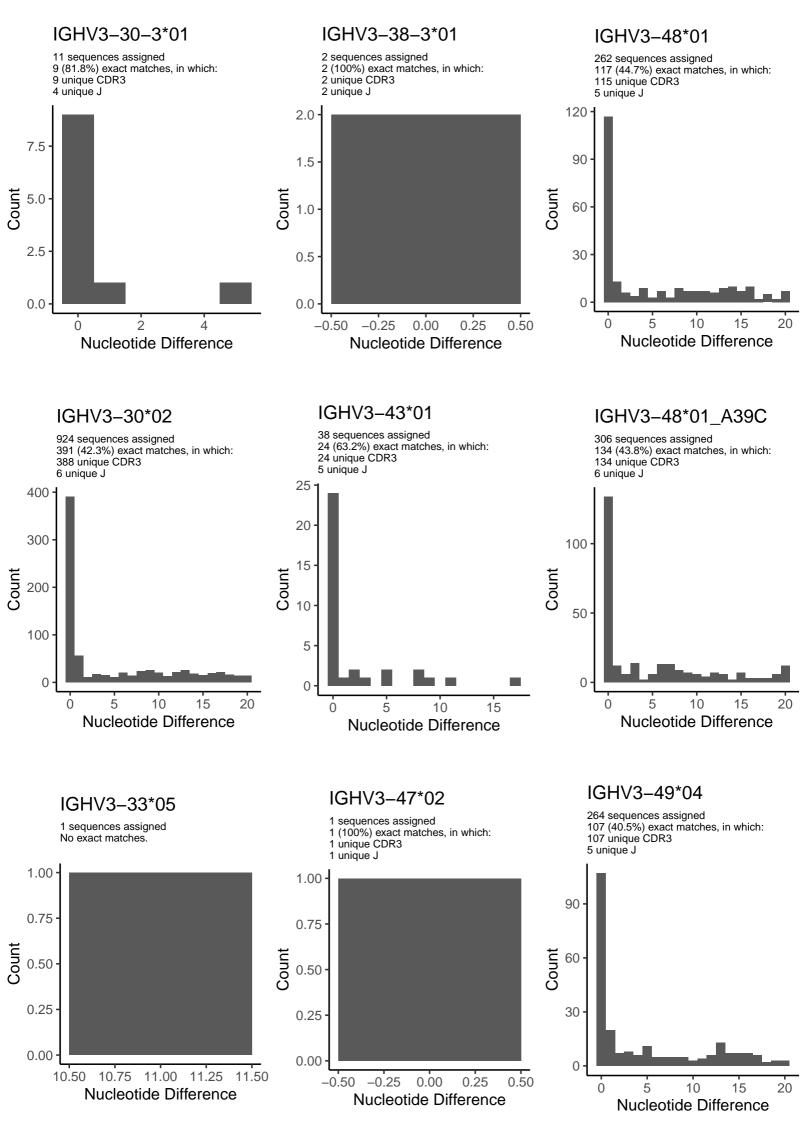
IGHV3-53\*04\_C241G\_G273A\_C300T- Final 3 nucleotides as a triplet

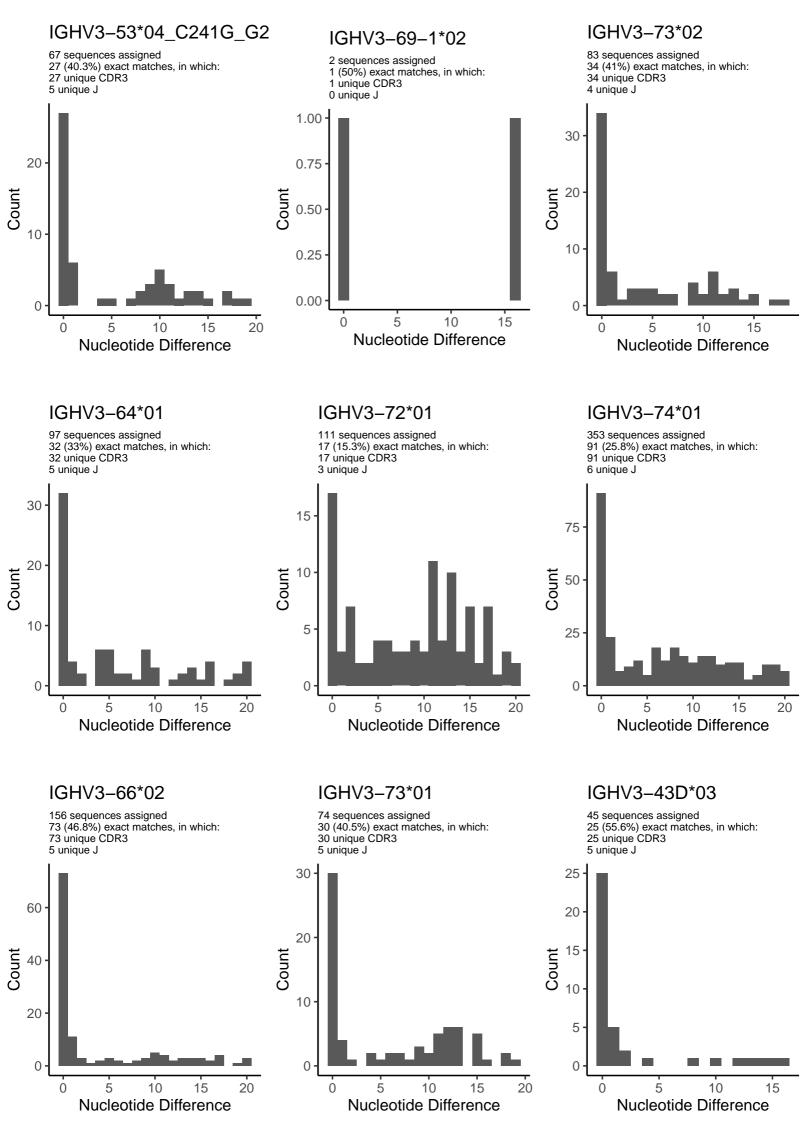


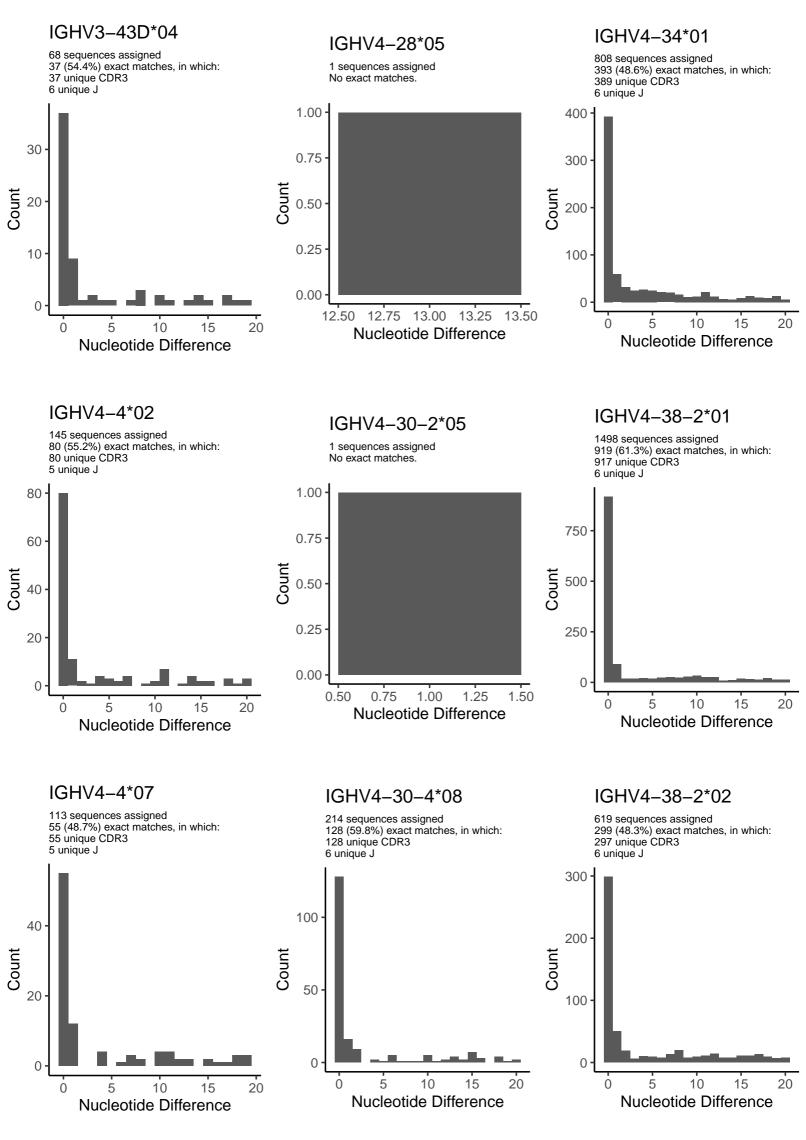


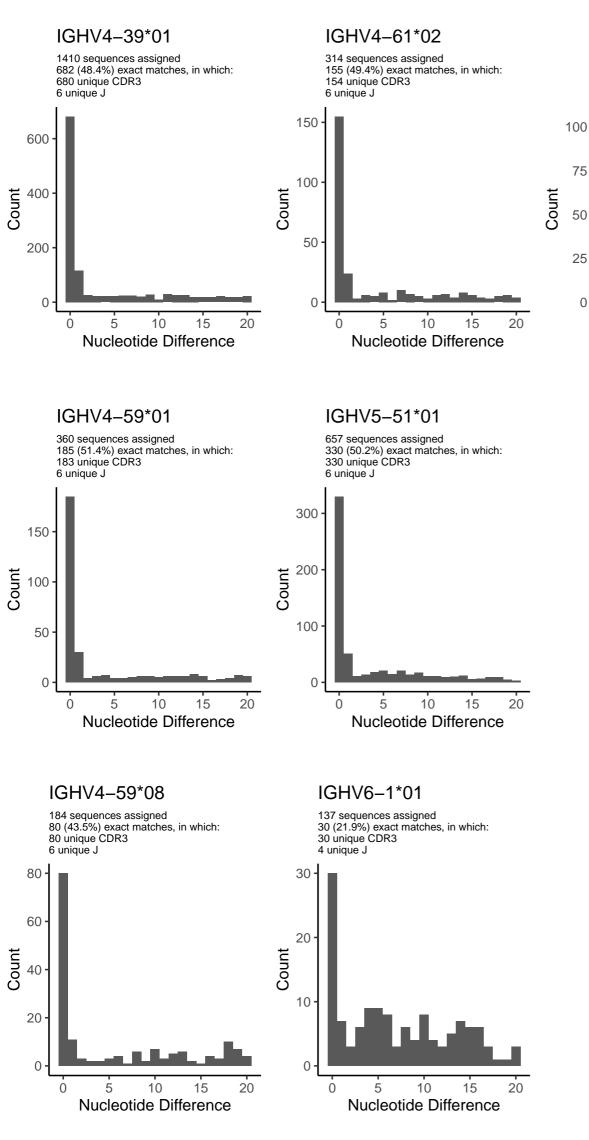












IGHV7-4-1\*02

106 unique CDR3

5

0

10

Nucleotide Difference

15

20

6 unique J

223 sequences assigned 106 (47.5%) exact matches, in which:

