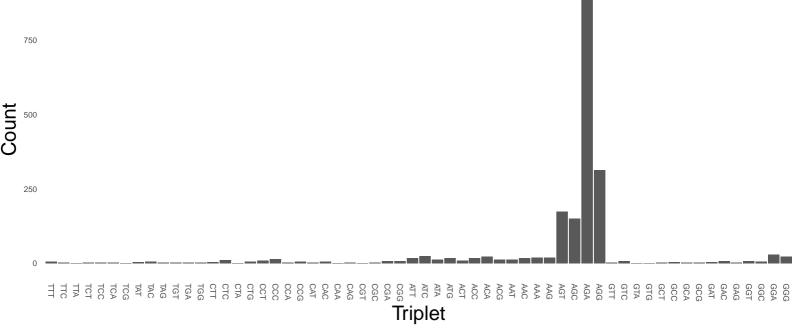
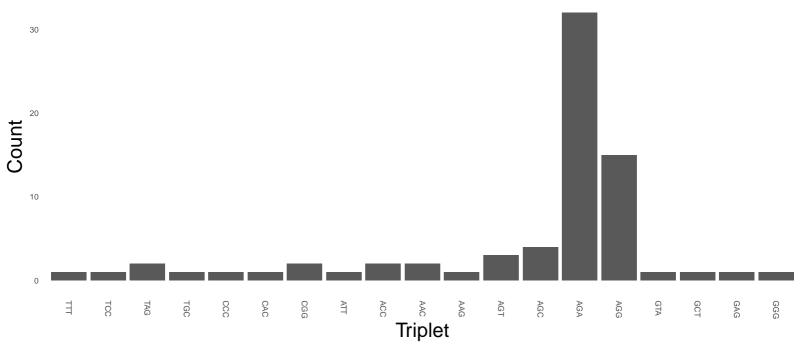


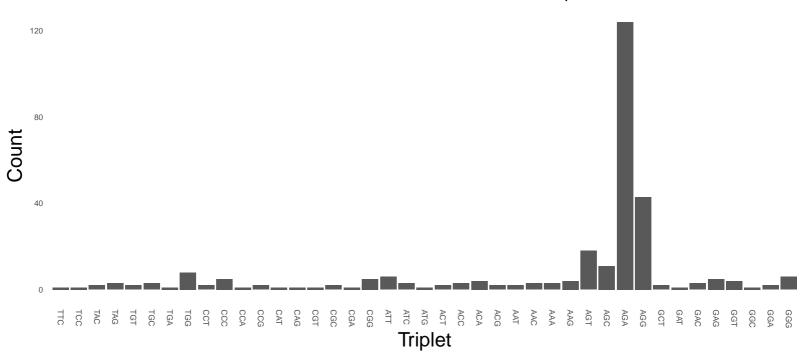
IGHV3-66\*01\_A223C\_T267G\_T300C\_G303A- Final 3 nucleotides as a triplet



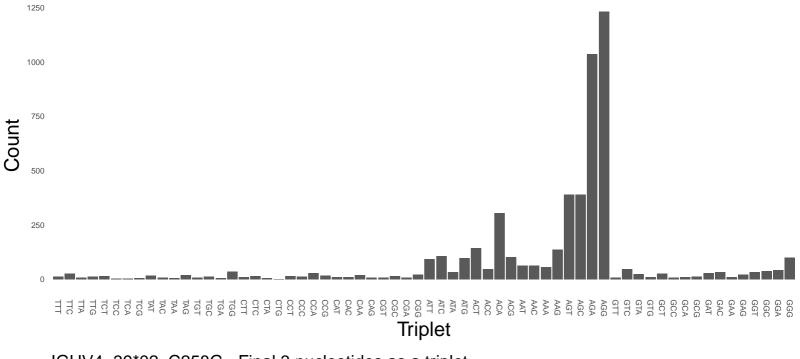
IGHV3-NL1\*01\_T201C\_G267T- Final 3 nucleotides as a triplet



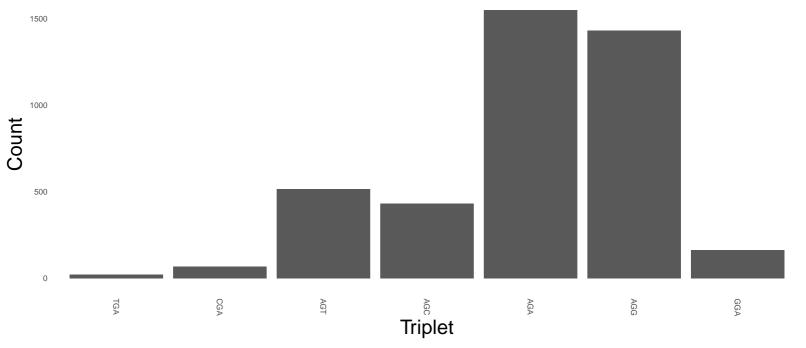
IGHV3-NL1\*01\_G49A\_T201C\_G267T- Final 3 nucleotides as a triplet



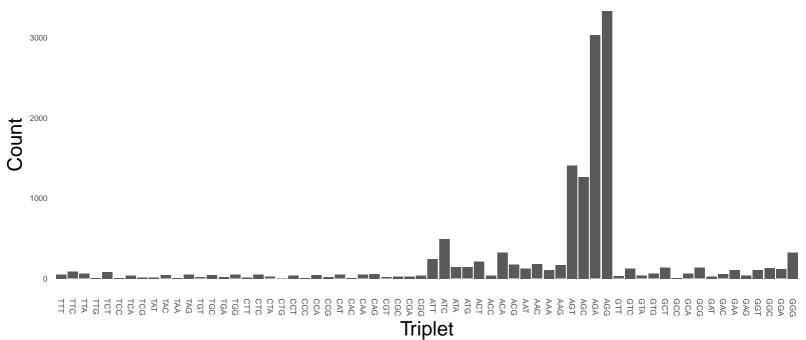
IGHV4-30-2\*01\_C315G- Final 3 nucleotides as a triplet



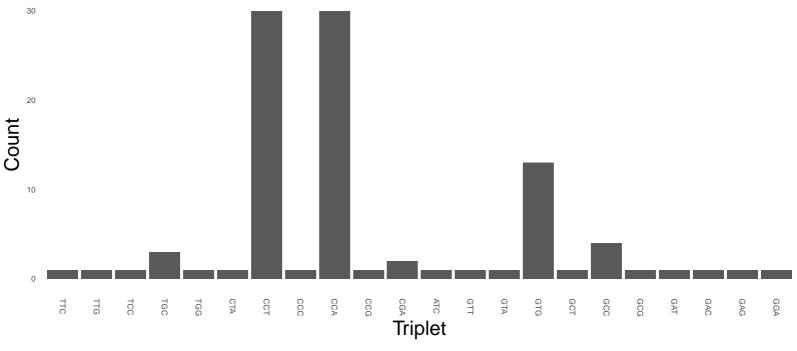
IGHV4-39\*02\_C258G- Final 3 nucleotides as a triplet



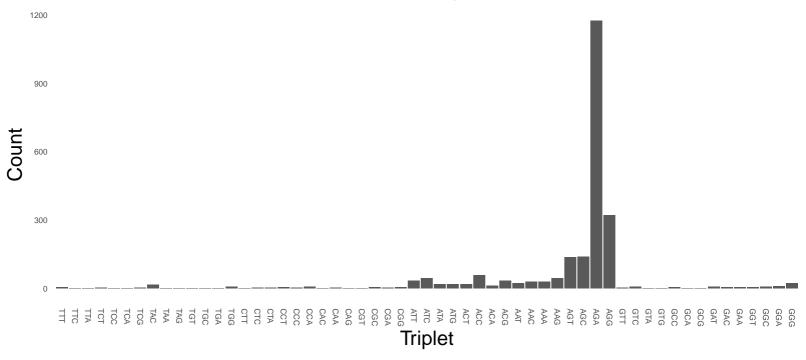
IGHV4-59\*01\_G48A\_G49C- Final 3 nucleotides as a triplet



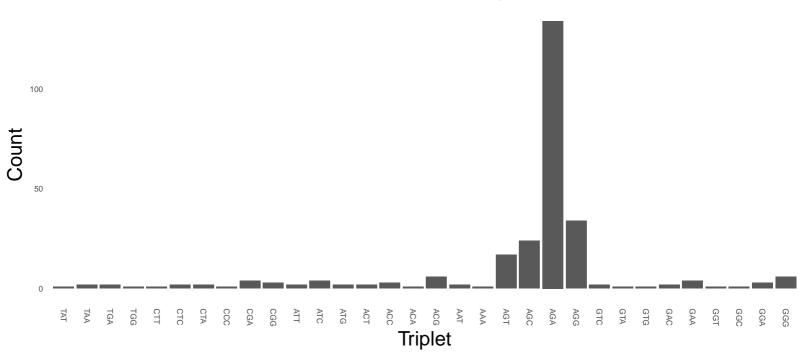
IGHV2-70\*04\_T116C- Final 3 nucleotides as a triplet



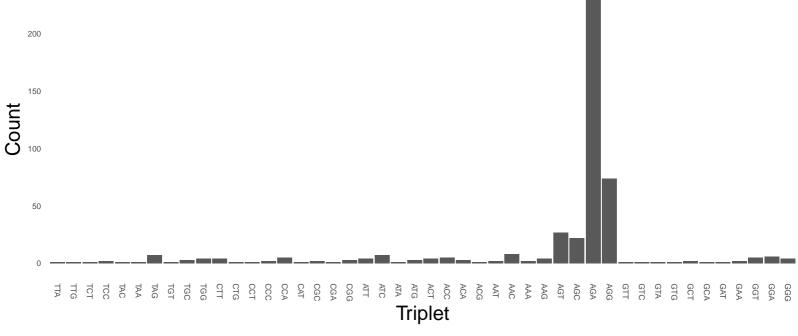
IGHV3-30-3\*02\_G75C- Final 3 nucleotides as a triplet



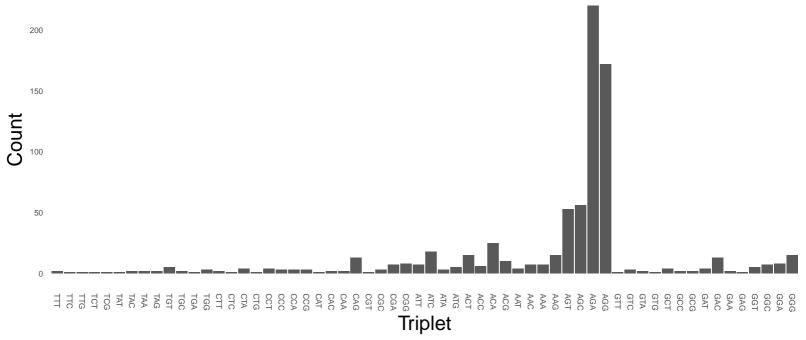
IGHV3-53\*02\_T267G\_C300T- Final 3 nucleotides as a triplet

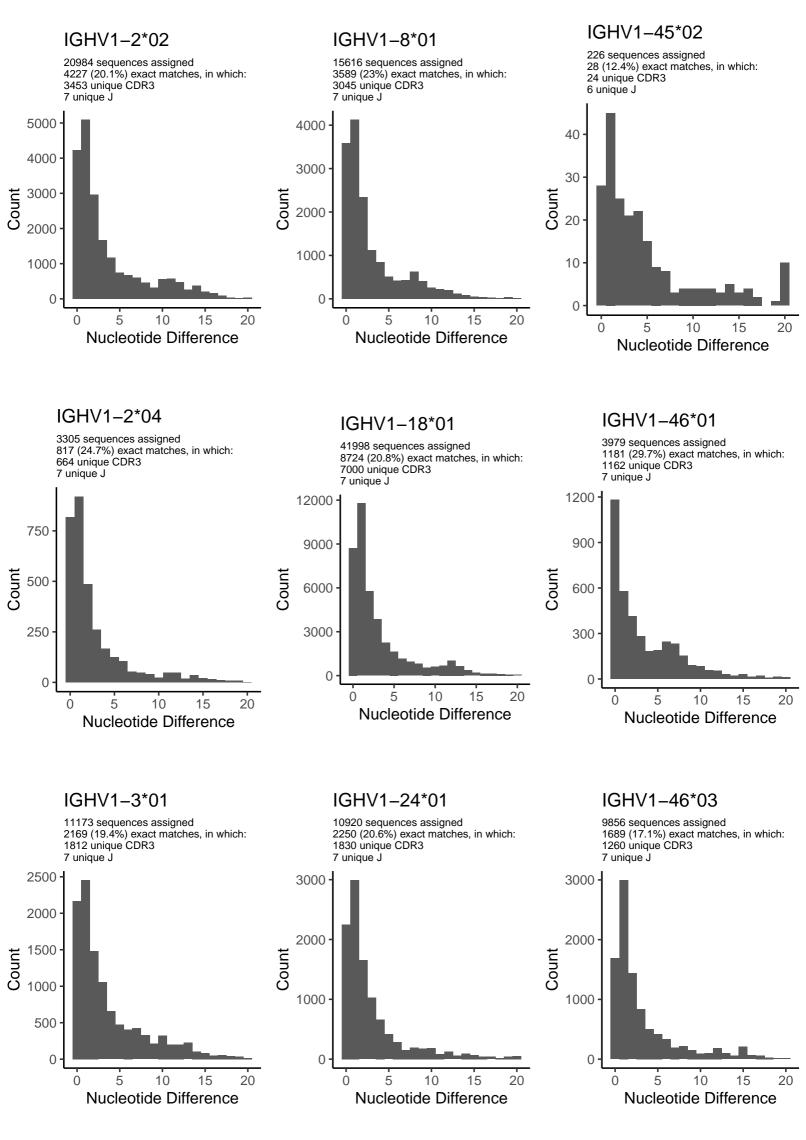


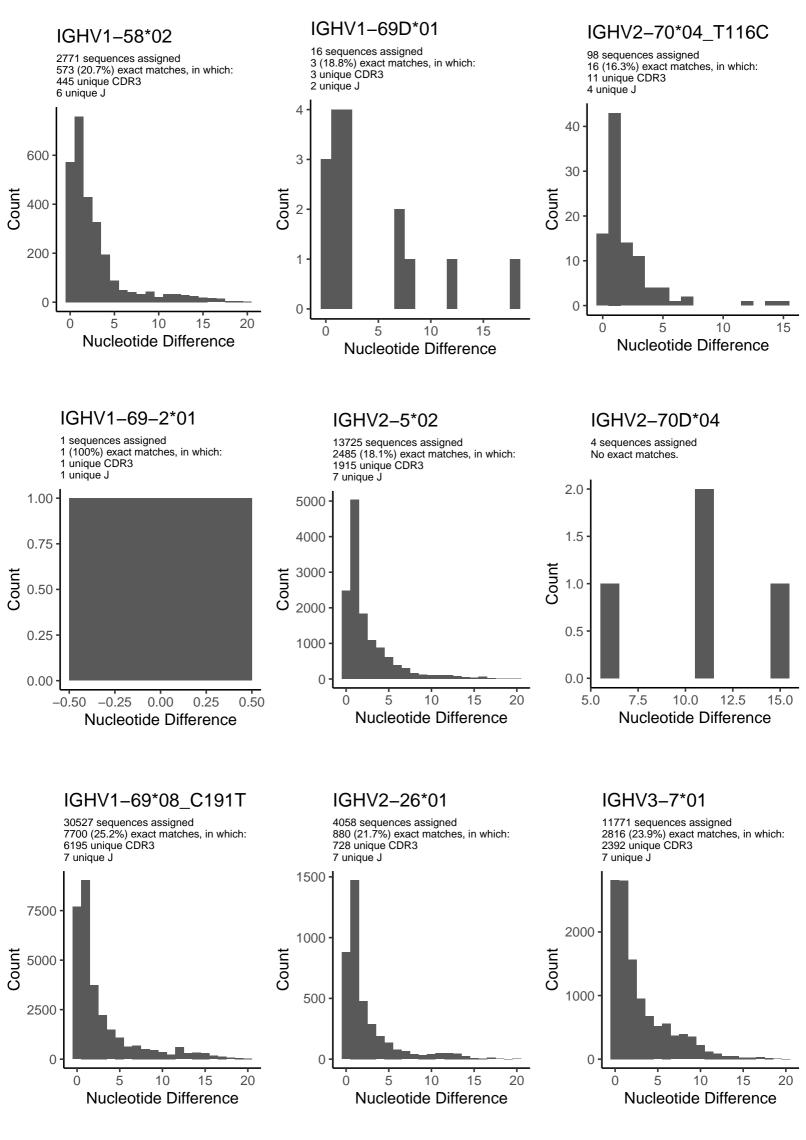
IGHV3-53\*05\_T267G\_C300T- Final 3 nucleotides as a triplet

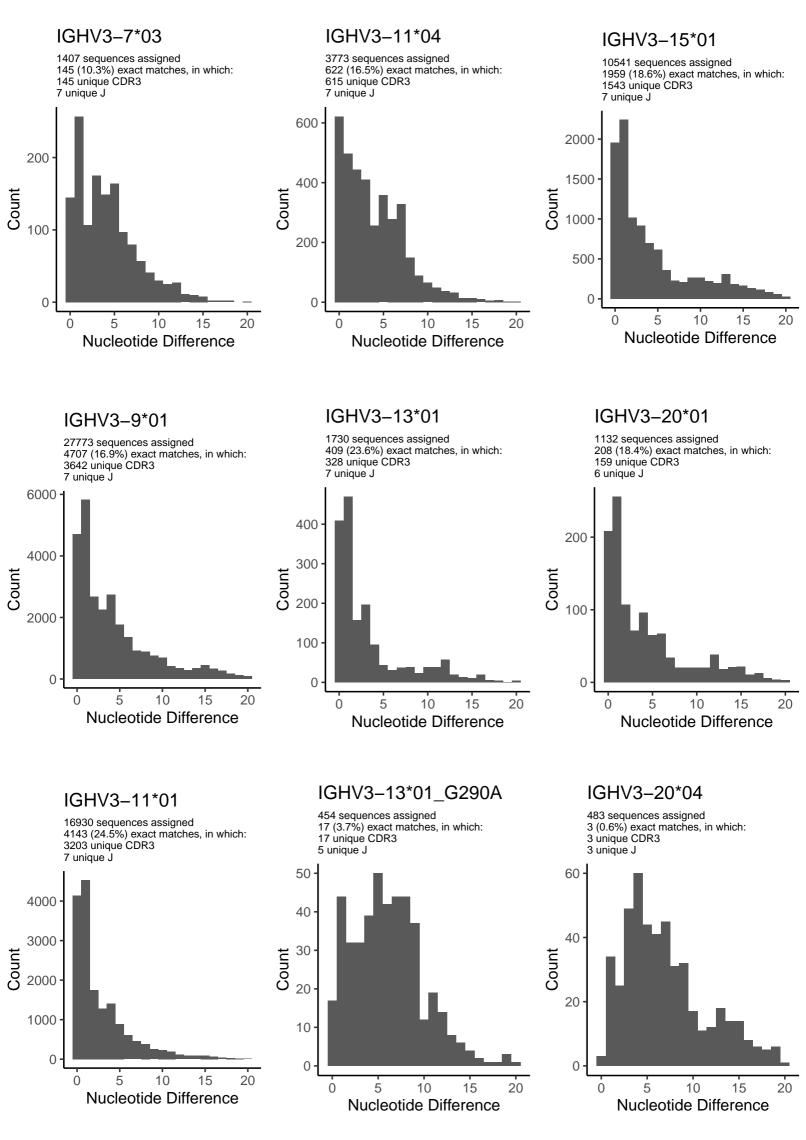


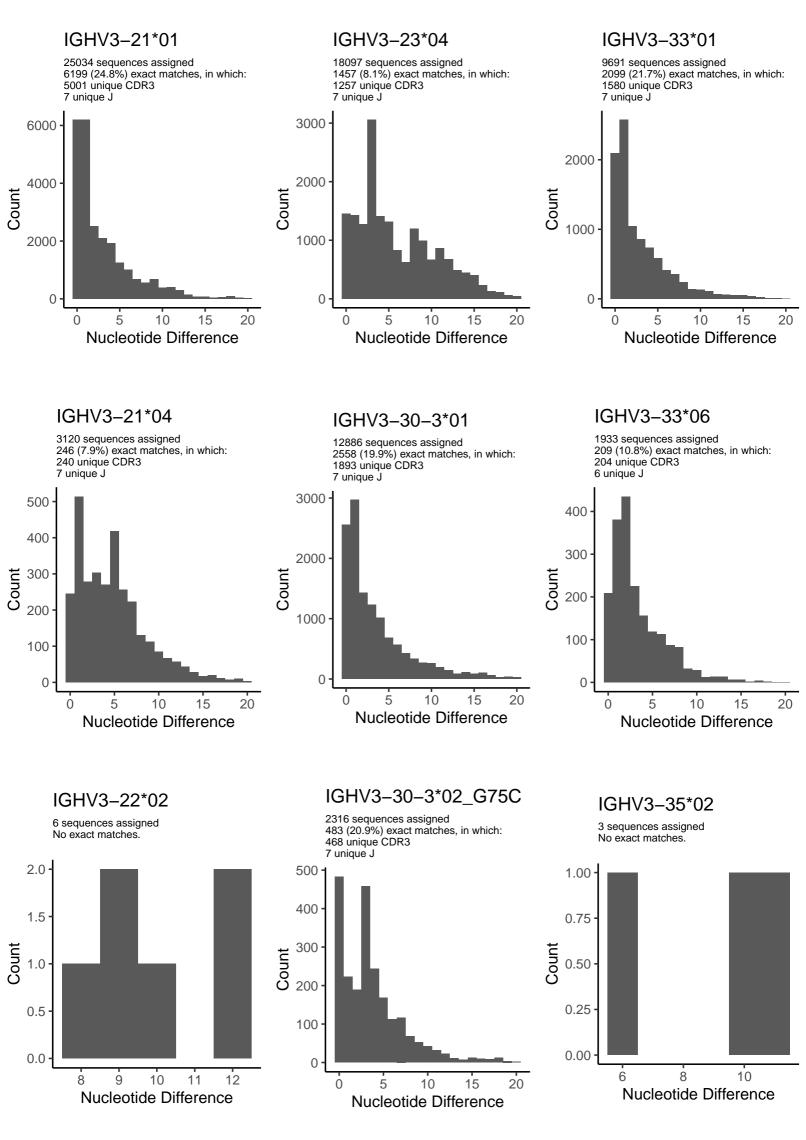
IGHV6-1\*01\_A315G- Final 3 nucleotides as a triplet

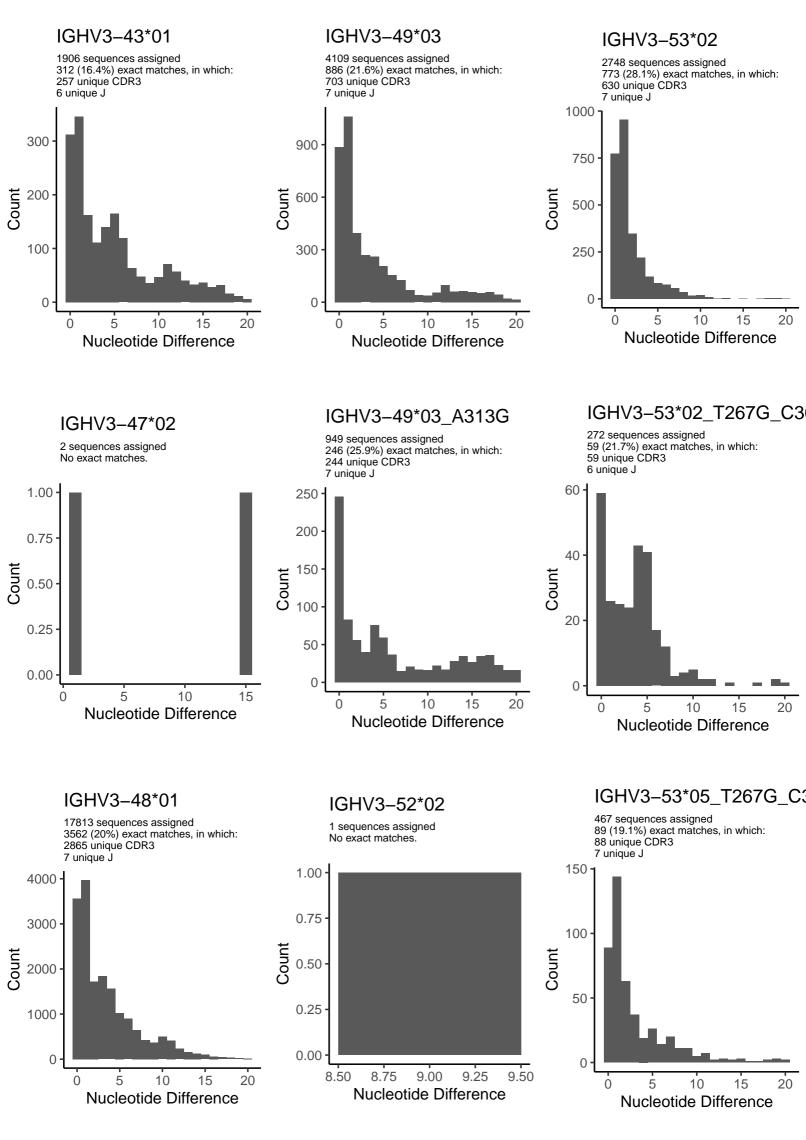


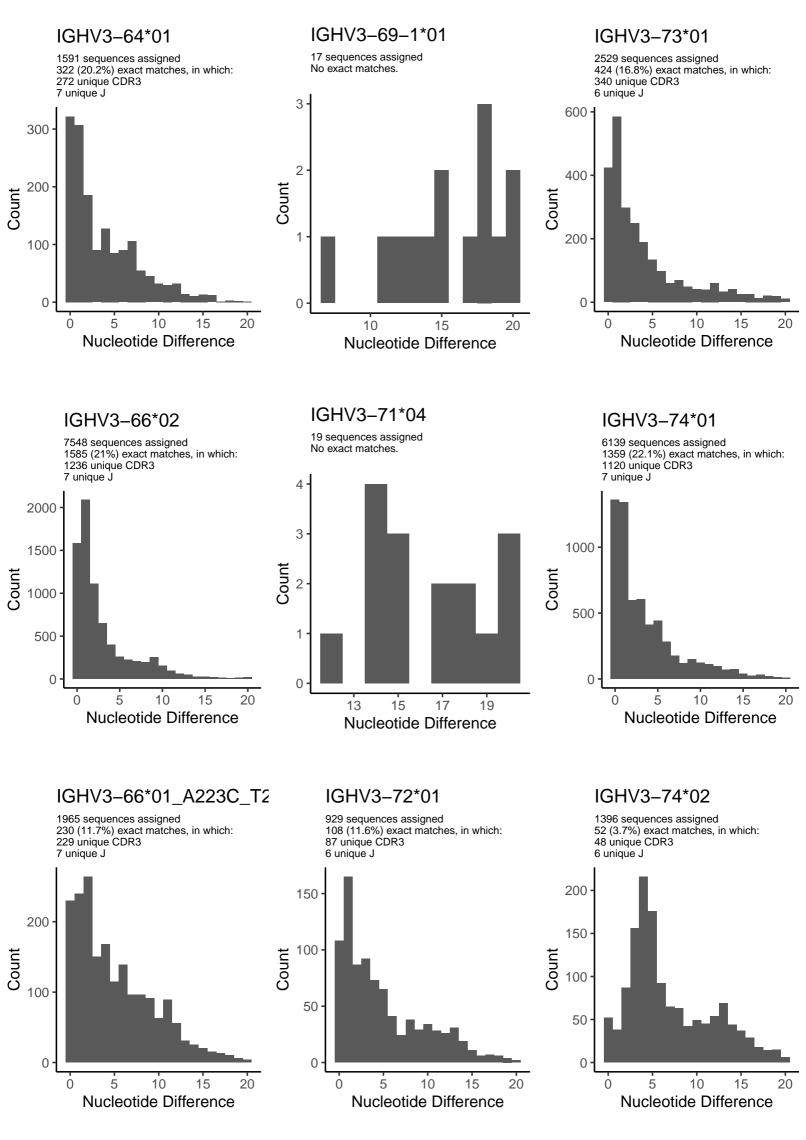


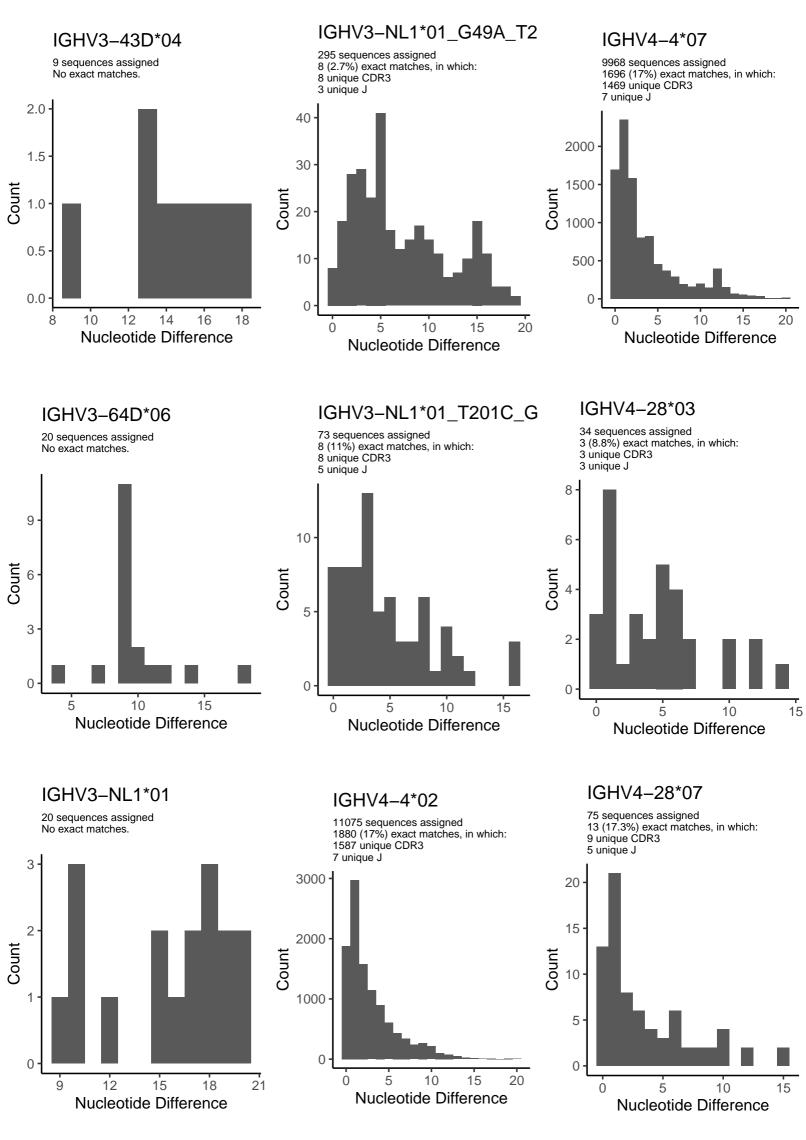


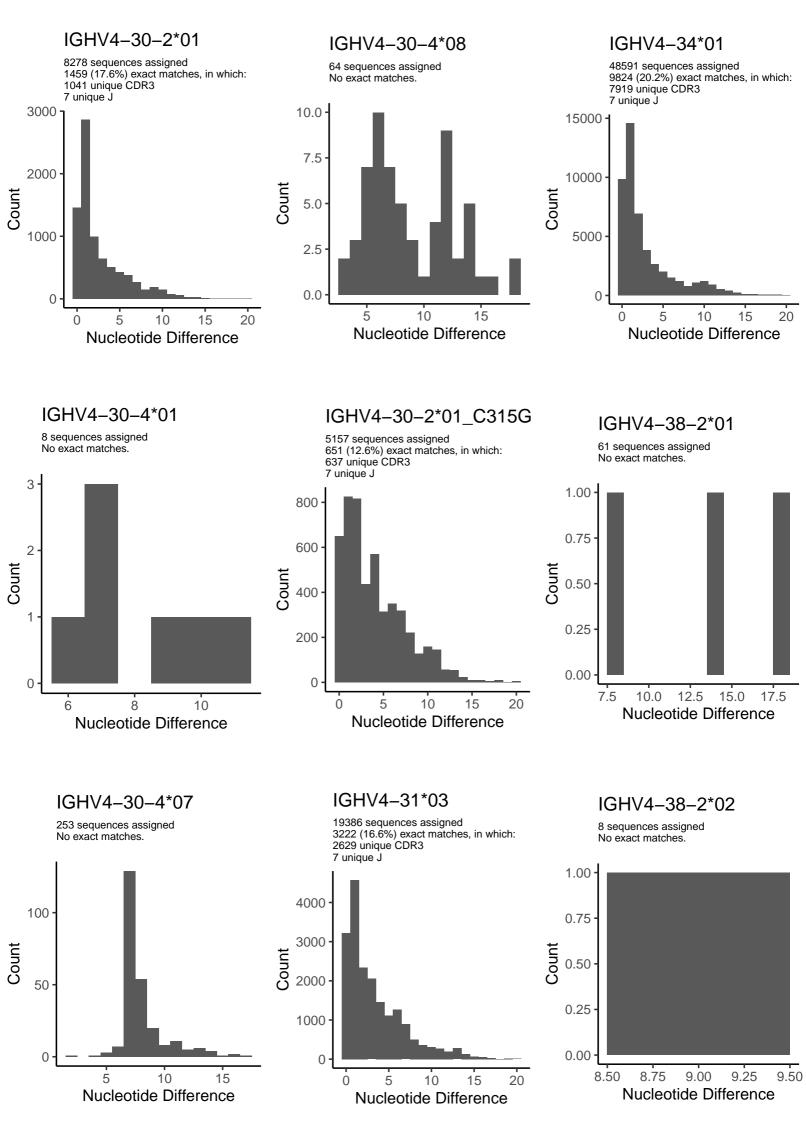


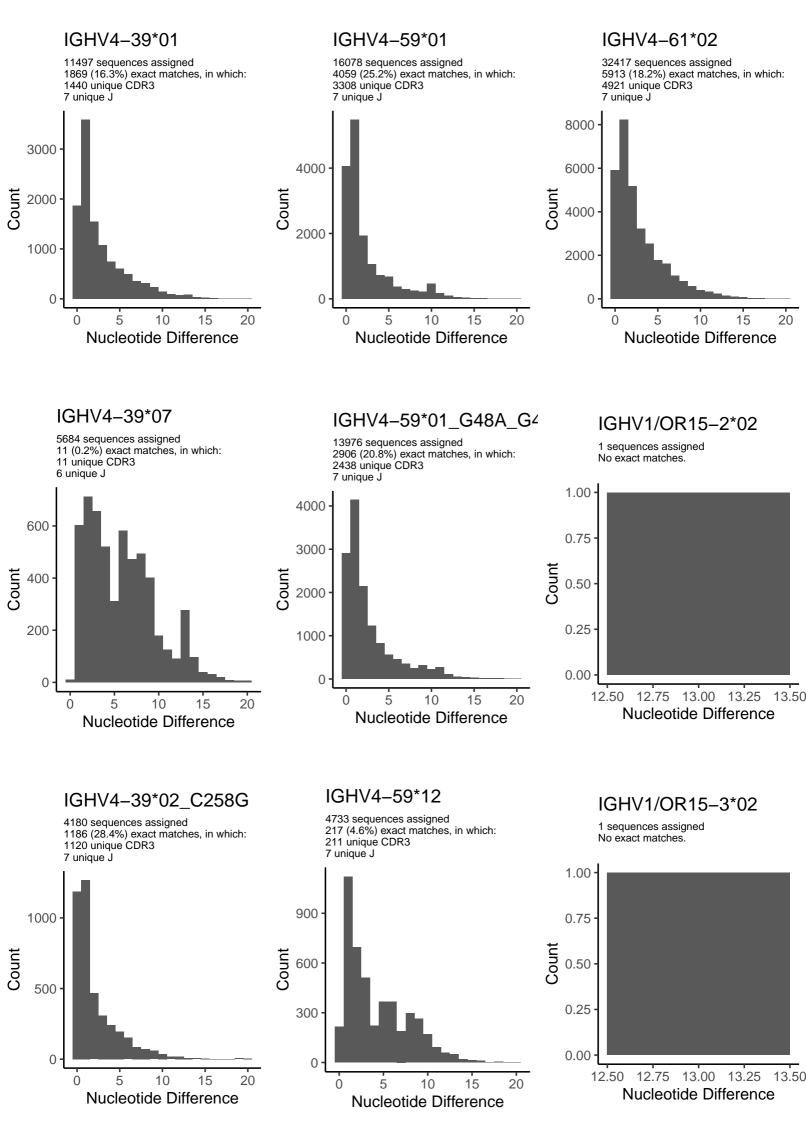


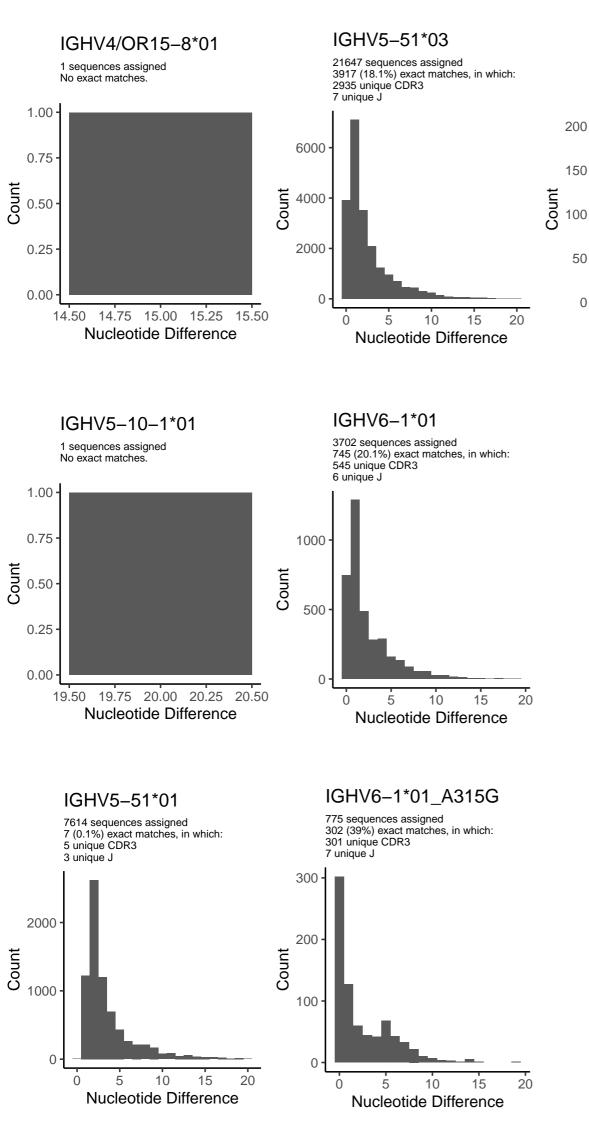












IGHV7-4-1\*01

844 sequences assigned

5

0

10

**Nucleotide Difference** 

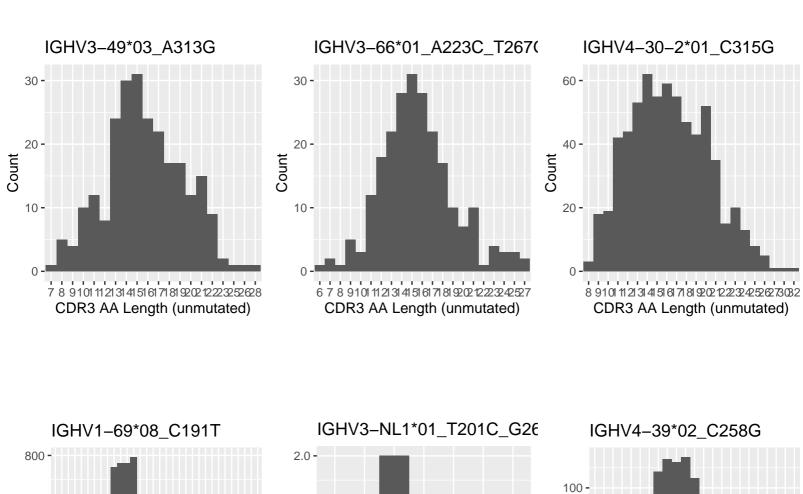
15

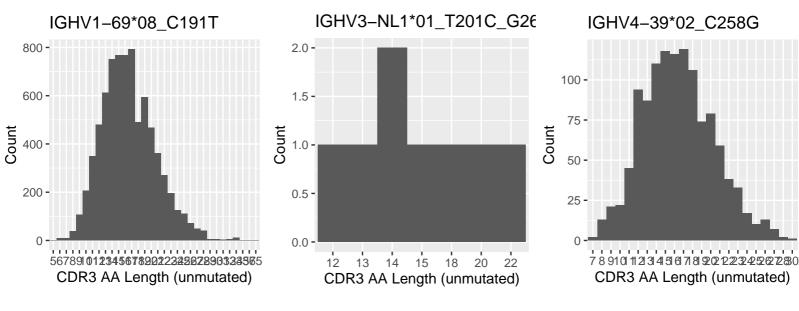
20

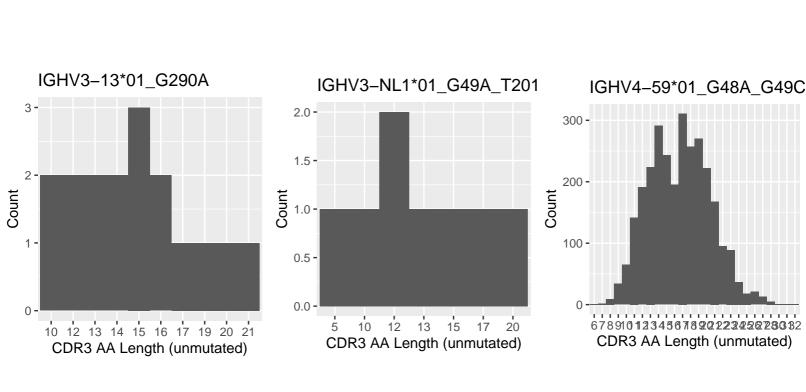
156 unique CDR3

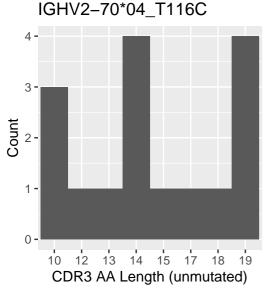
6 unique J

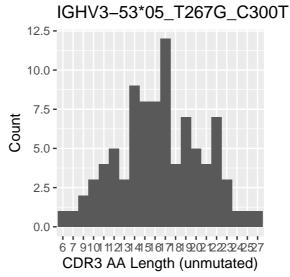
178 (21.1%) exact matches, in which:

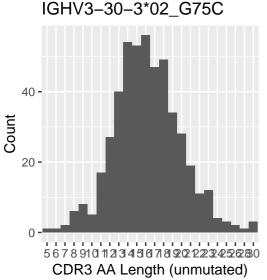


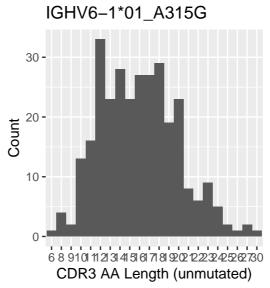


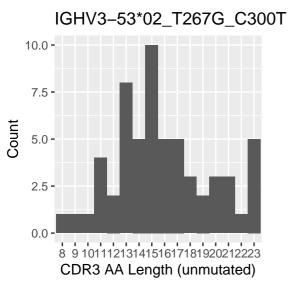


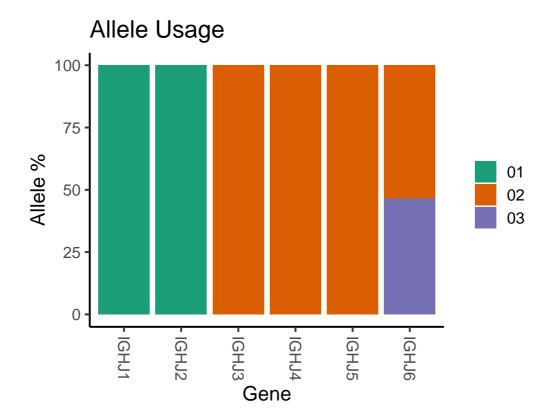












## Sequence Count by IGHJ6 allele usage

