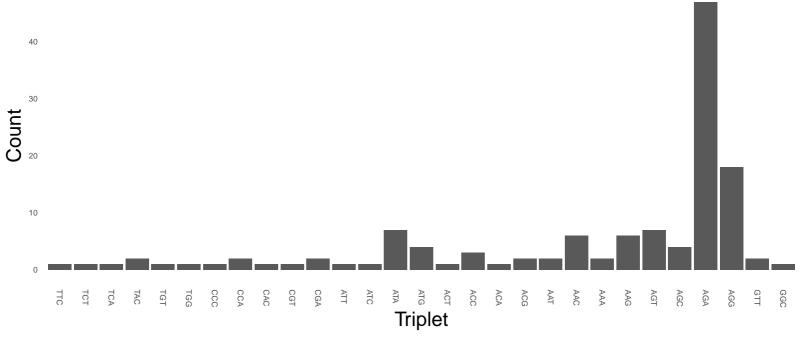


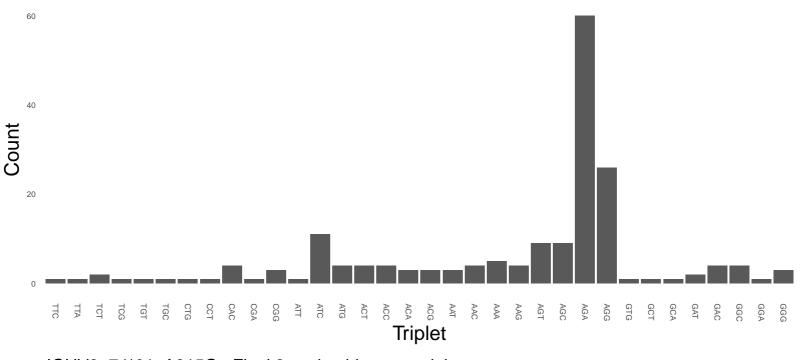
IGHV1-58*02_G316A_C317G- Final 3 nucleotides as a triplet 60 20 CCTG
CTG
CTC
TGC
TGC
TAC CCC CCA CGT AGT AGA GTC CCG CAC CGG ACT ATG ATC AAAA AAAT ACG AGC AGG GTA GCG GAT ATT ACC ACA **Triplet** IGHV1-69*08_C191T- Final 3 nucleotides as a triplet 2000 1500 500 | GAGA | **Triplet** IGHV3-11*04_G240A_G303T- Final 3 nucleotides as a triplet 25

СТС CAA CGA ACG ACA ACC GAG
GAC
GAT
GCA
GCA
GTC
GTC TGA
TGC
TTT TGG CCC CCA CAT CAC CGG AAA AAT AAG AGT AGA AGC AGG ATT ATC **Triplet**

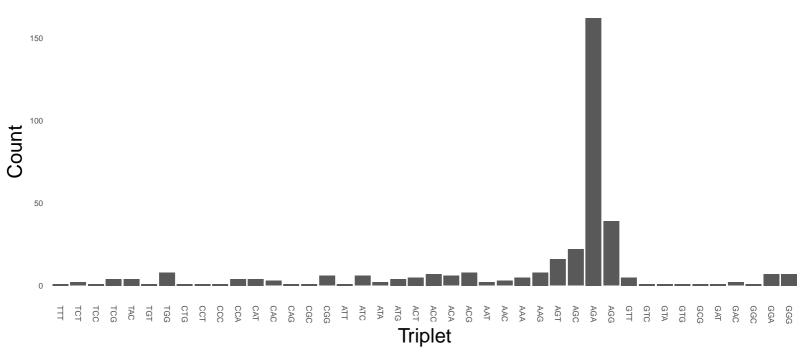
IGHV3-53*02_T267G_G303A- Final 3 nucleotides as a triplet



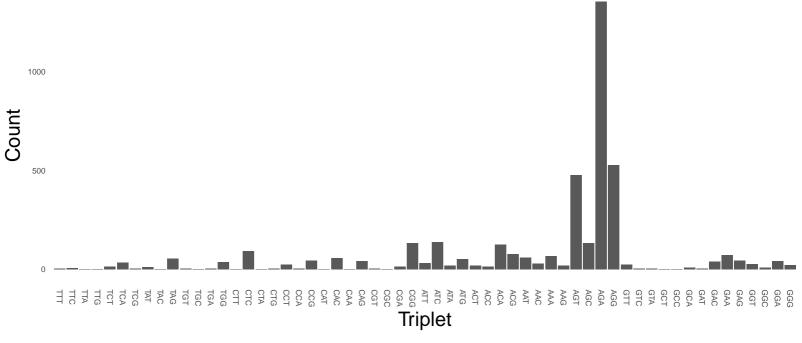
IGHV3-53*04_T267G_T288C_G303A_G317A- Final 3 nucleotides as a triplet



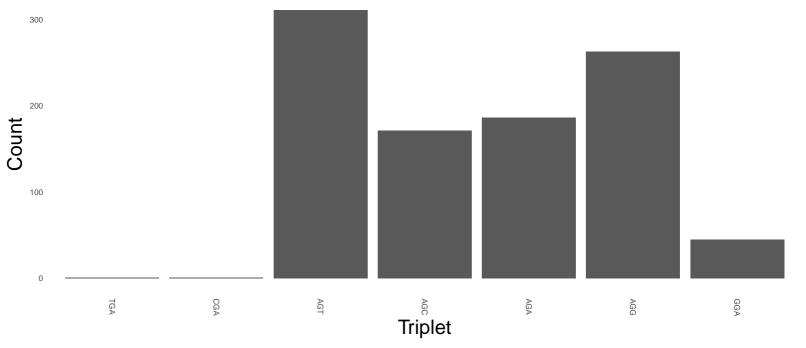
IGHV3-74*01_A315G- Final 3 nucleotides as a triplet



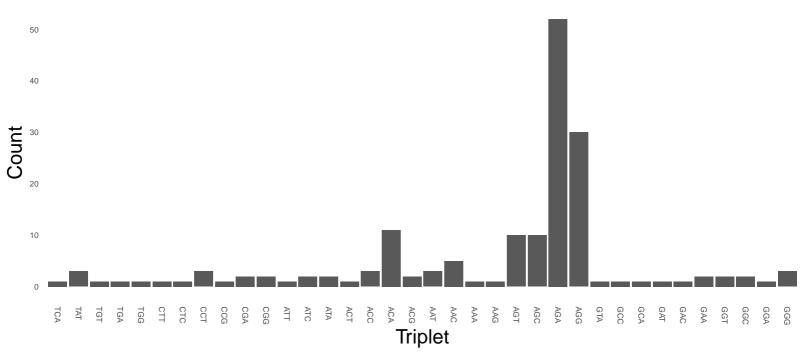
IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

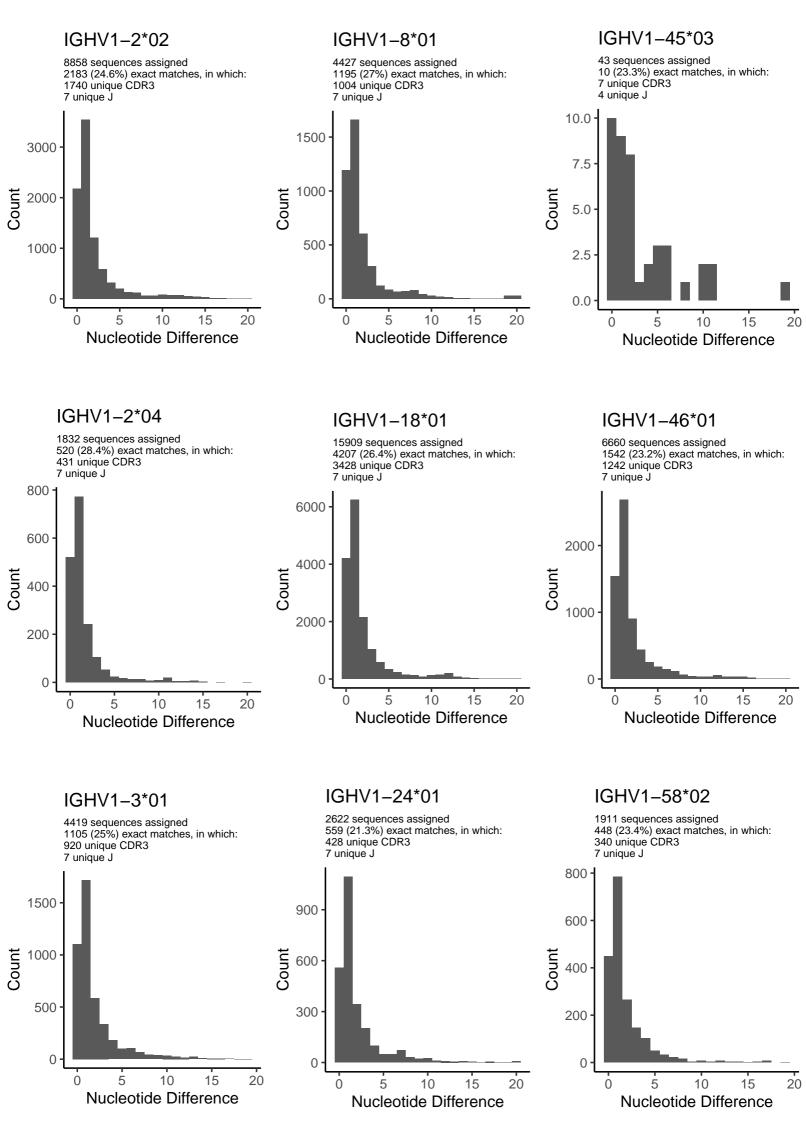


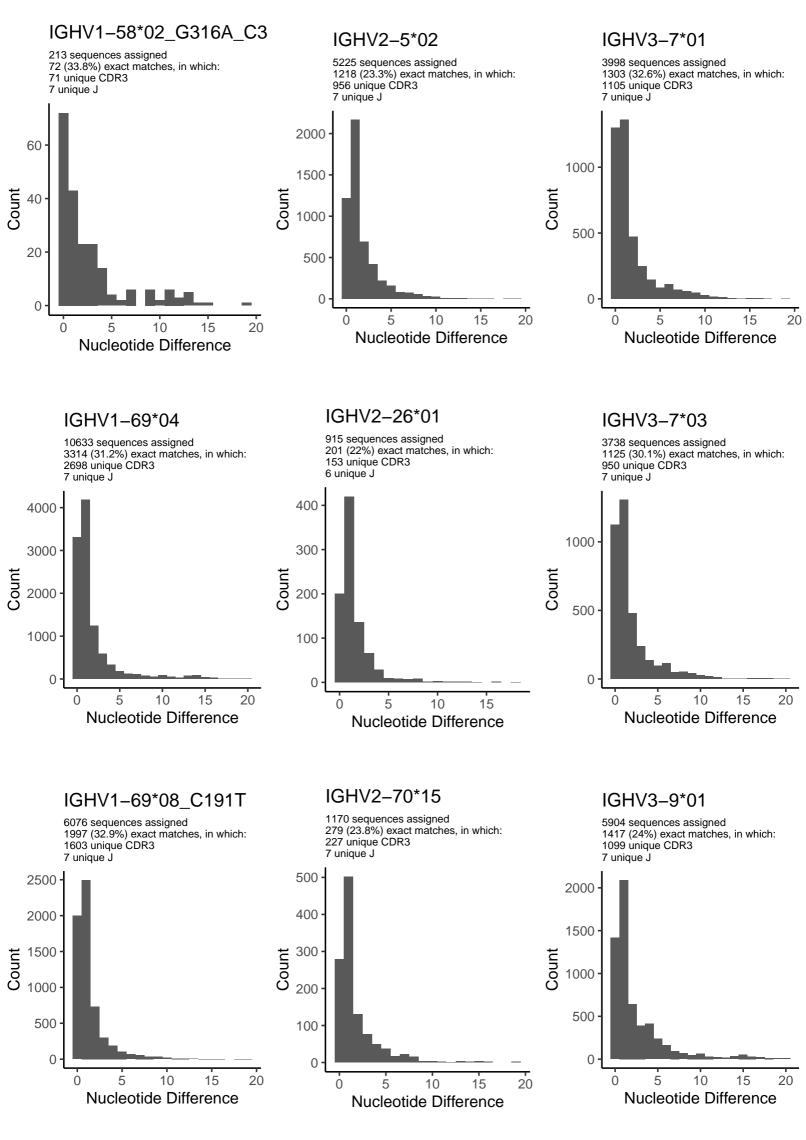
IGHV4-39*02_C258G- Final 3 nucleotides as a triplet

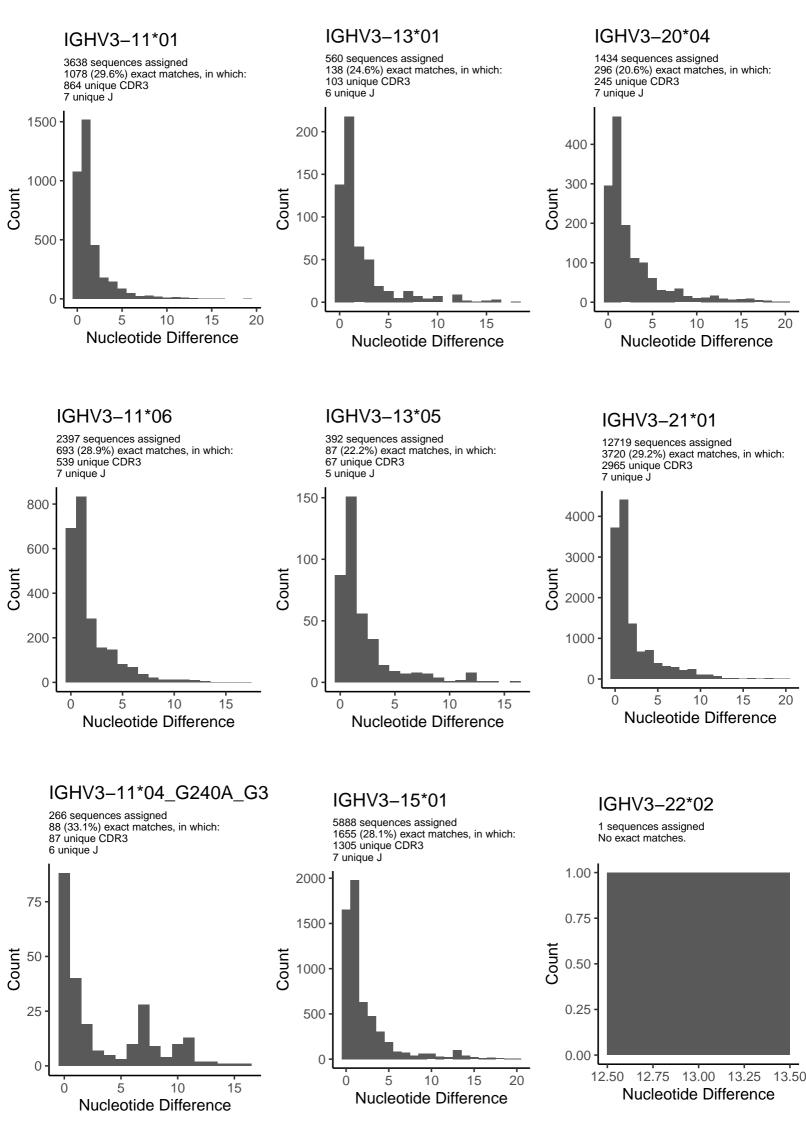


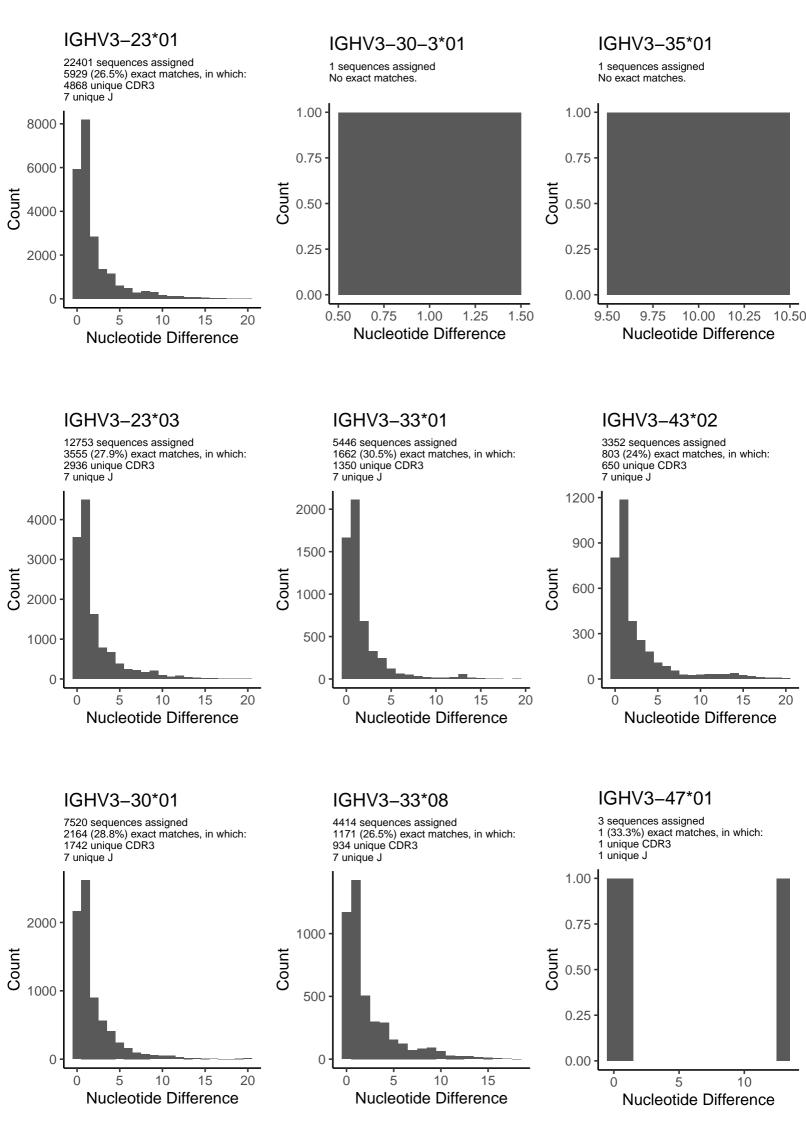
IGHV6-1*01_A315G- Final 3 nucleotides as a triplet

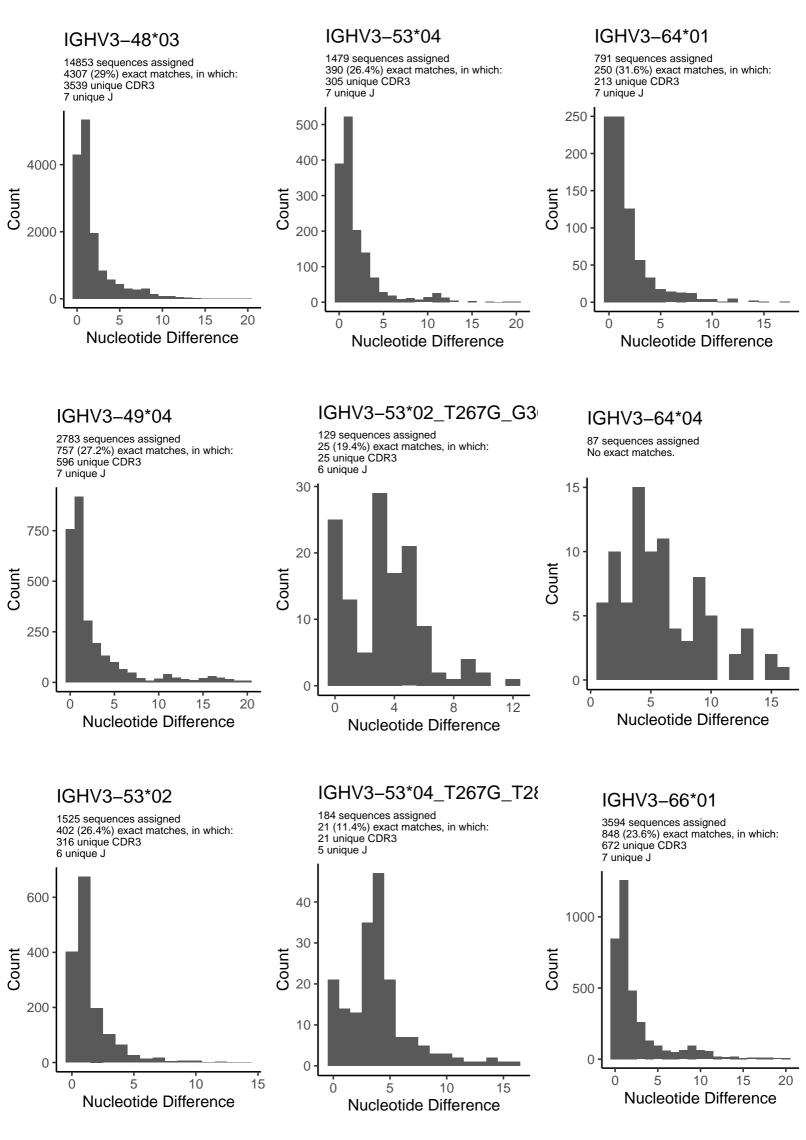


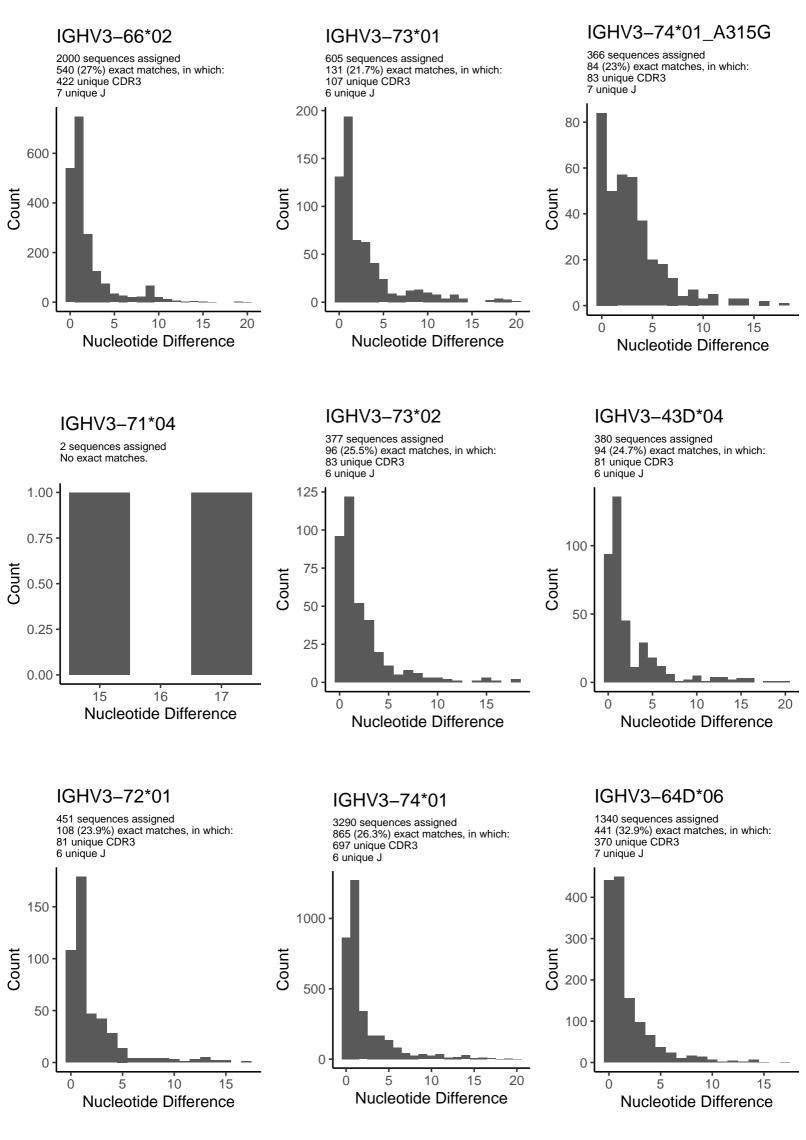


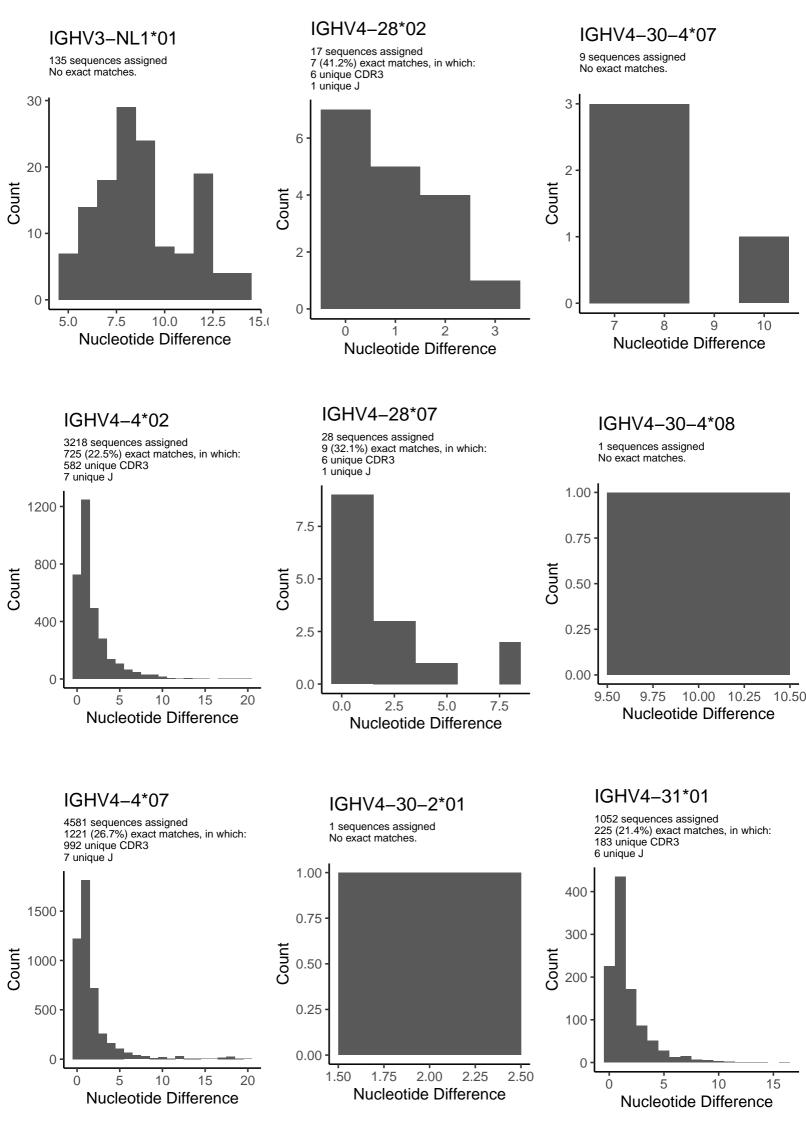


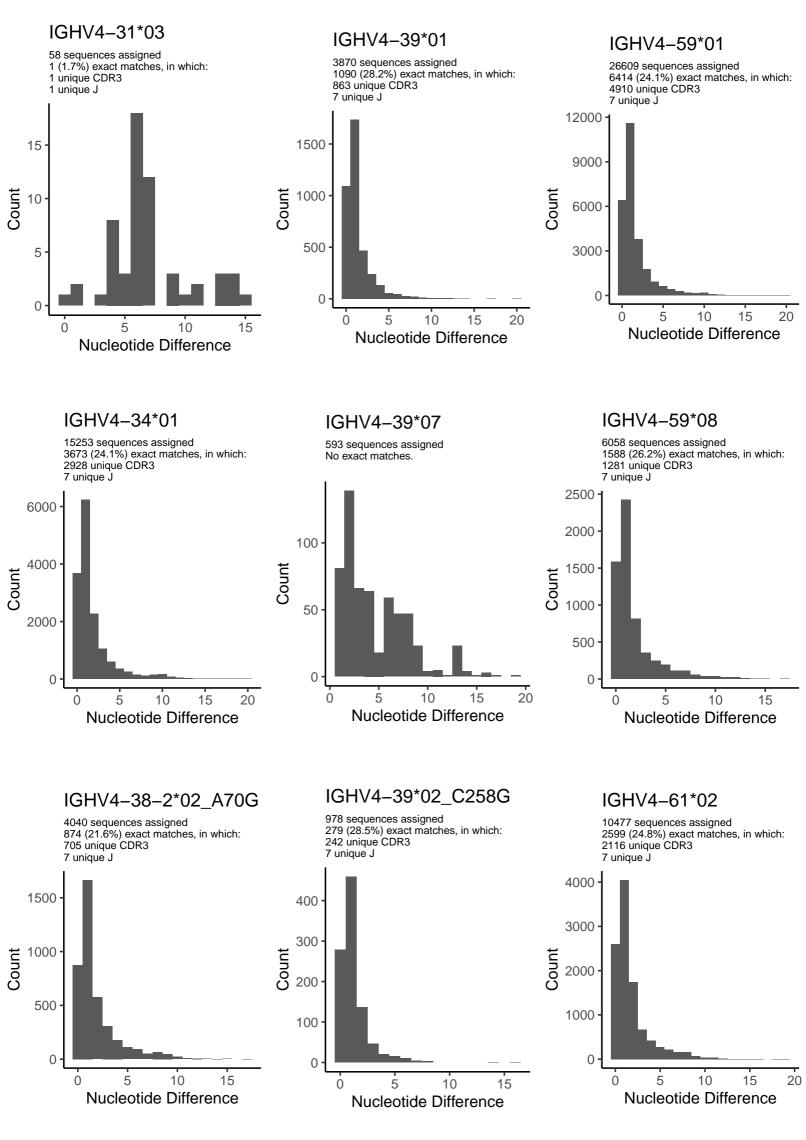




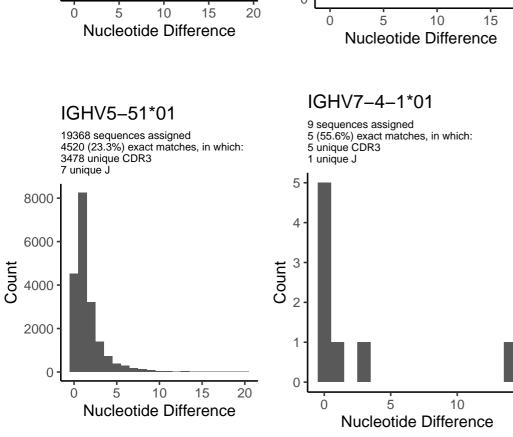








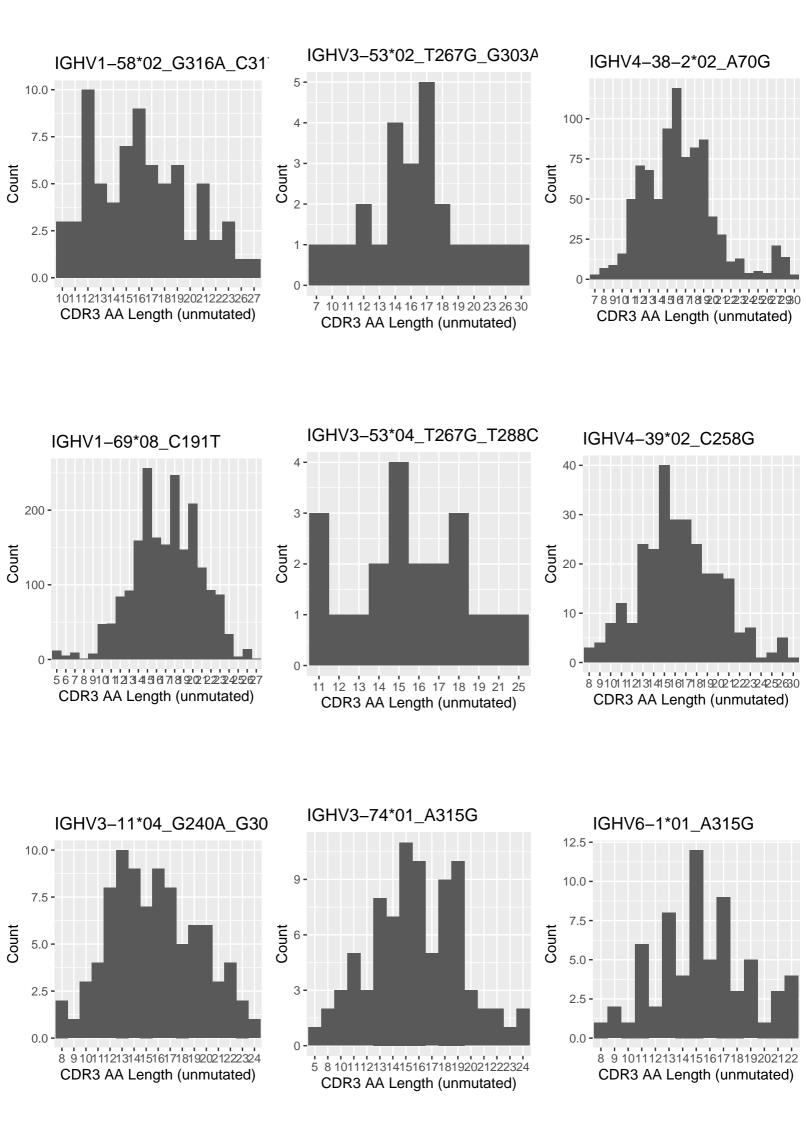
IGHV6-1*01_A315G IGHV5-10-1*03 166 sequences assigned 66 (39.8%) exact matches, in which: 4784 sequences assigned 1173 (24.5%) exact matches, in which: 950 unique CDR3 65 unique CDR3 6 unique J 7 unique J 2000 60 1500 40 Count Count 1000 20 500 0 0 15 0 10 20 0 5 10 **Nucleotide Difference**

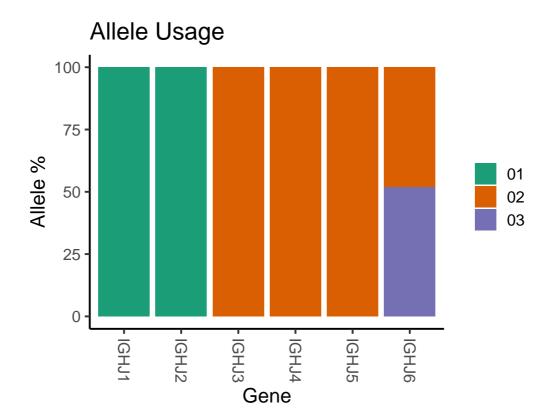


15

1871 sequences assigned 449 (24%) exact matches, in which: 326 unique CDR3 6 unique J 750 250 Nucleotide Difference

IGHV6-1*01





Sequence Count by IGHJ6 allele usage

