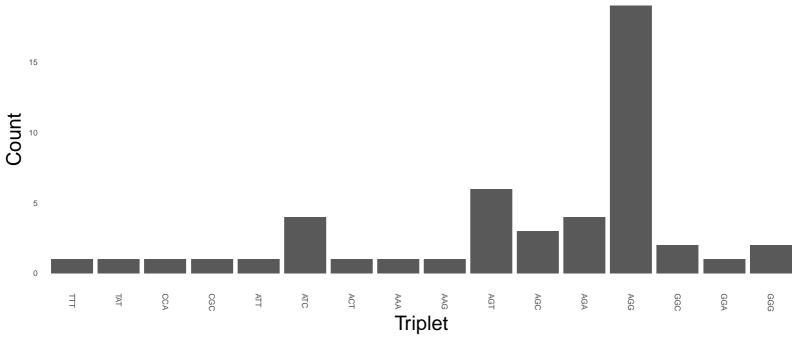


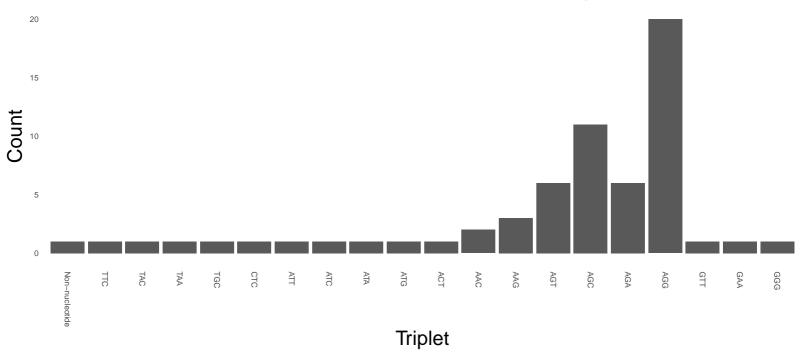


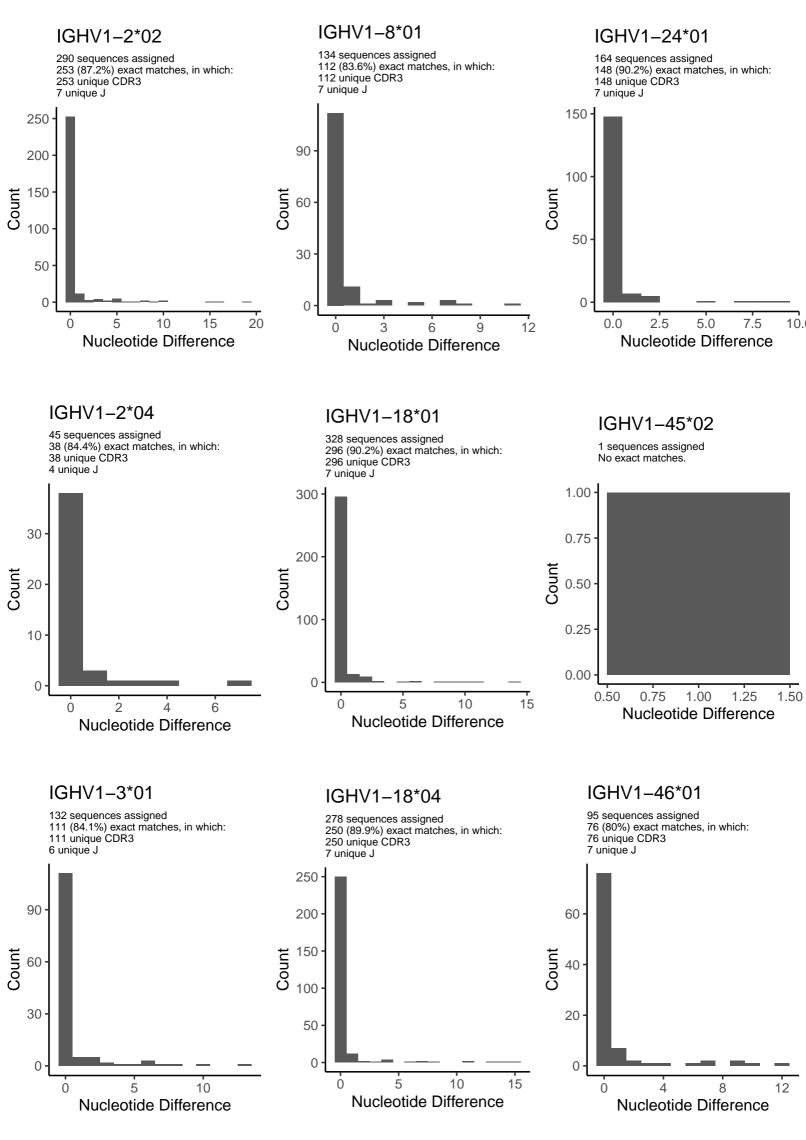
Position

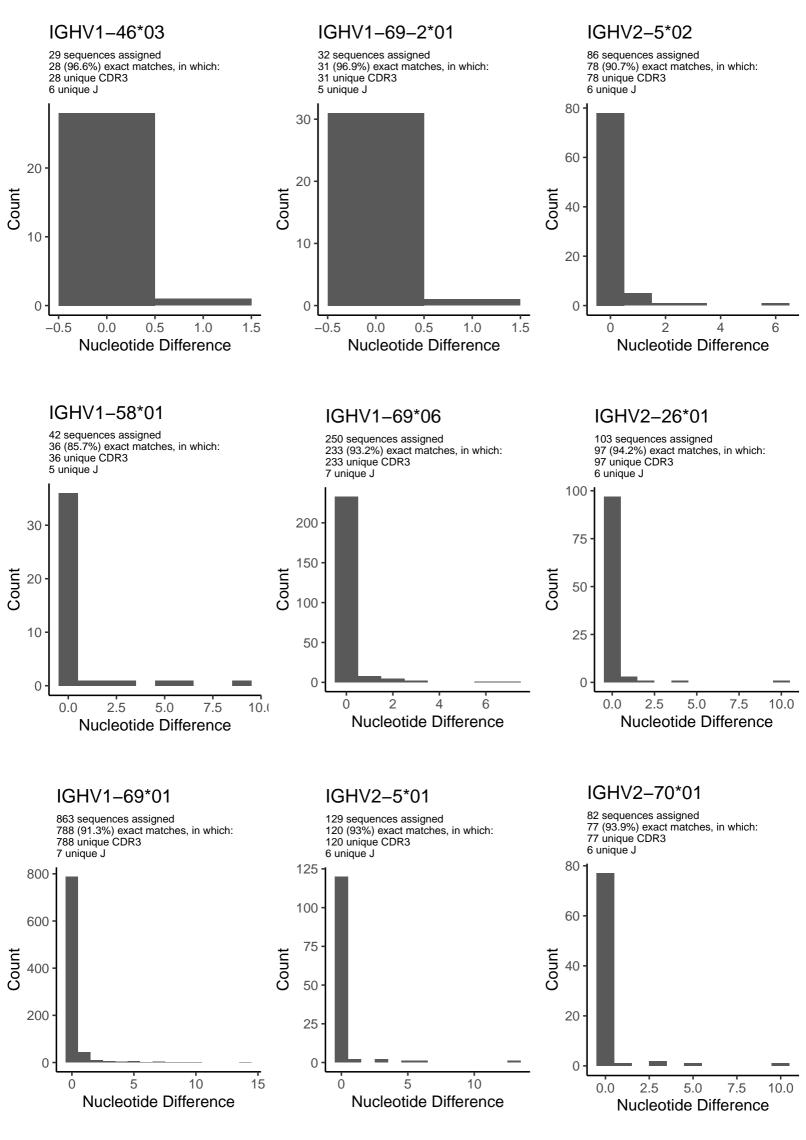
IGHV4-30-2*01_C285T- Final 3 nucleotides as a triplet

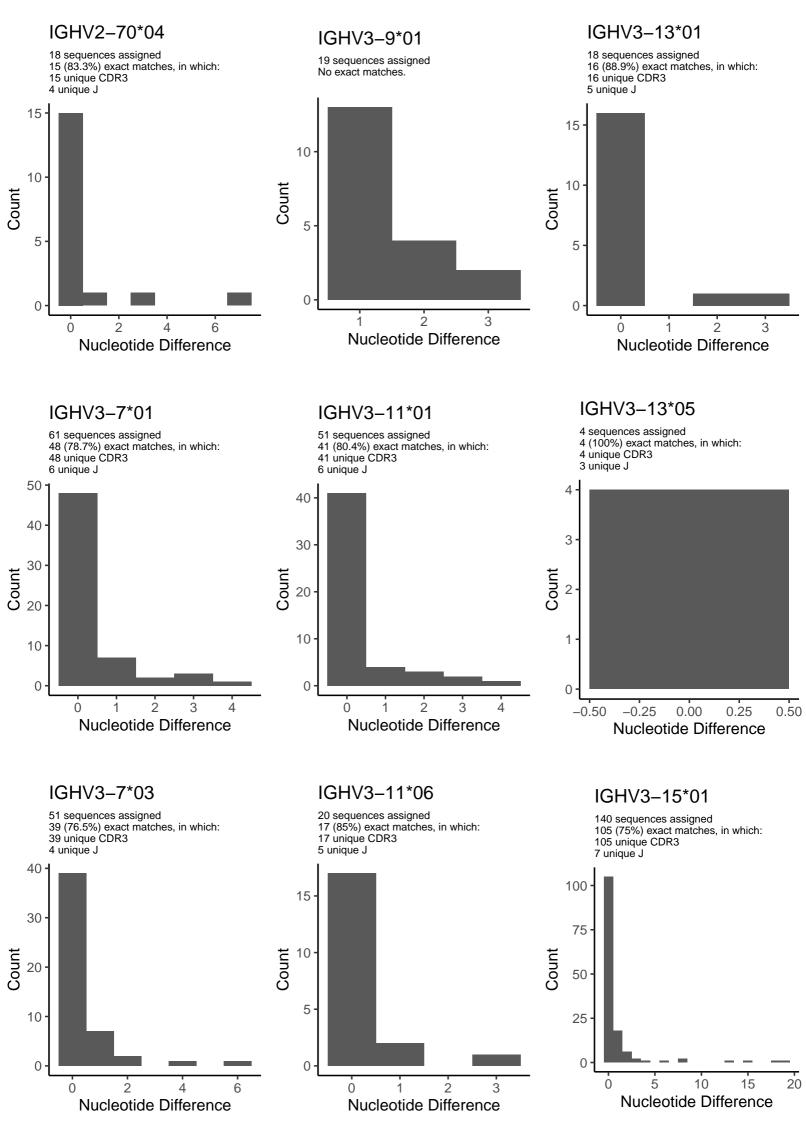


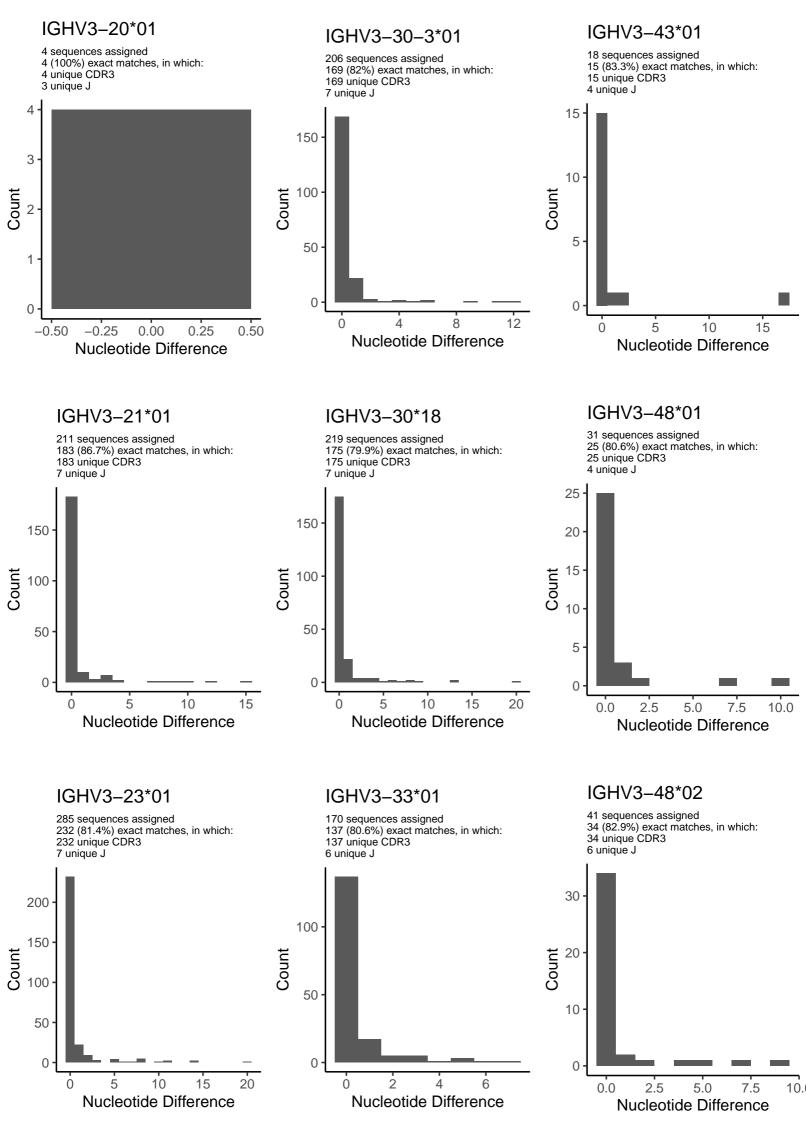
IGHV4-31*11_G4C_G21C_C25T_A113C- Final 3 nucleotides as a triplet

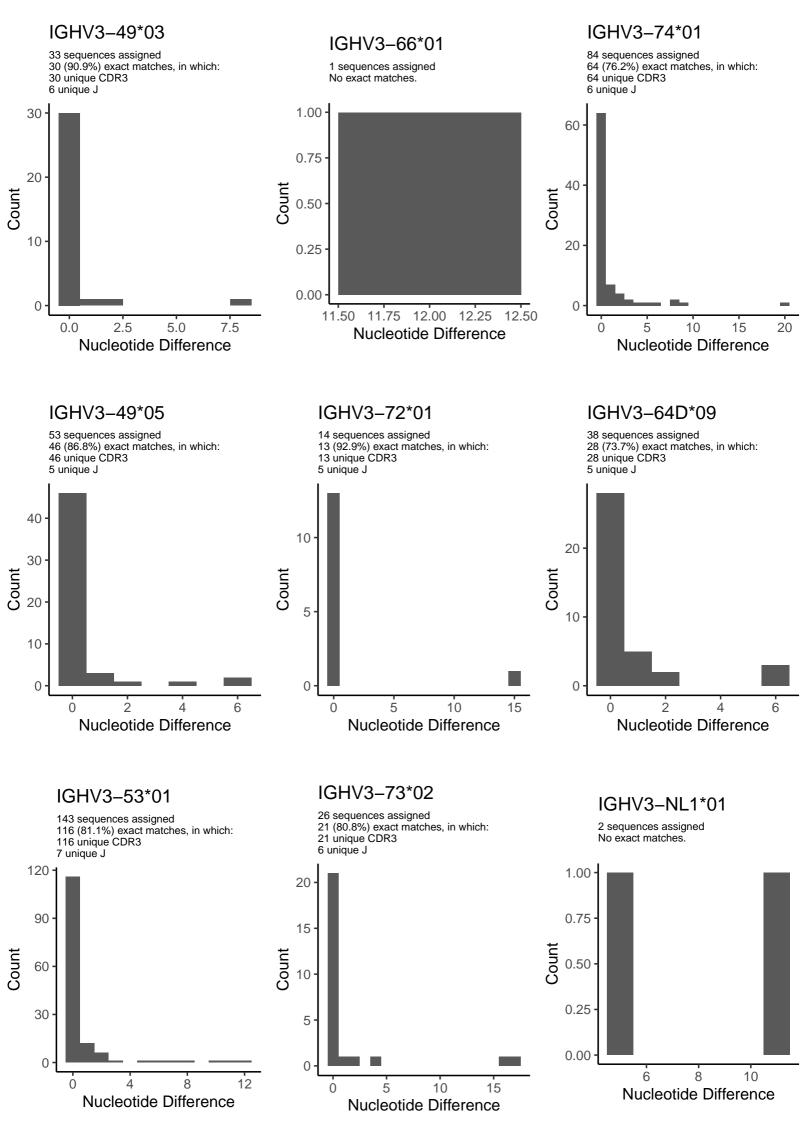


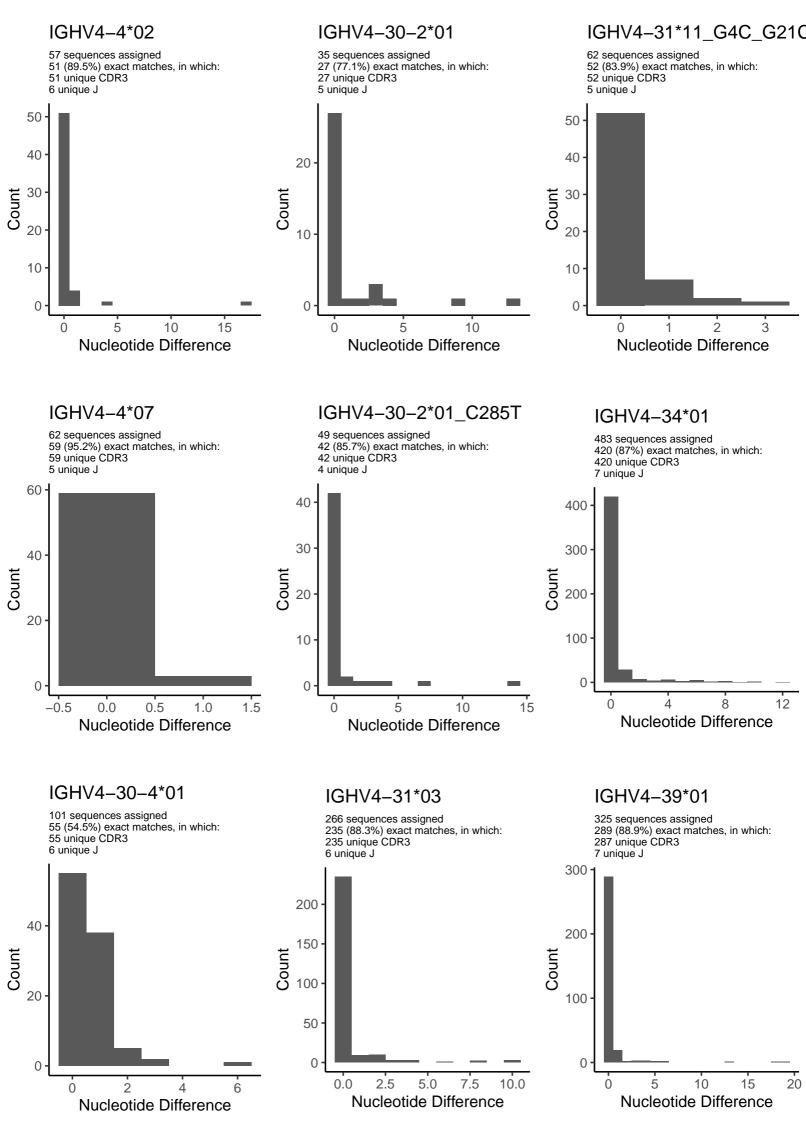


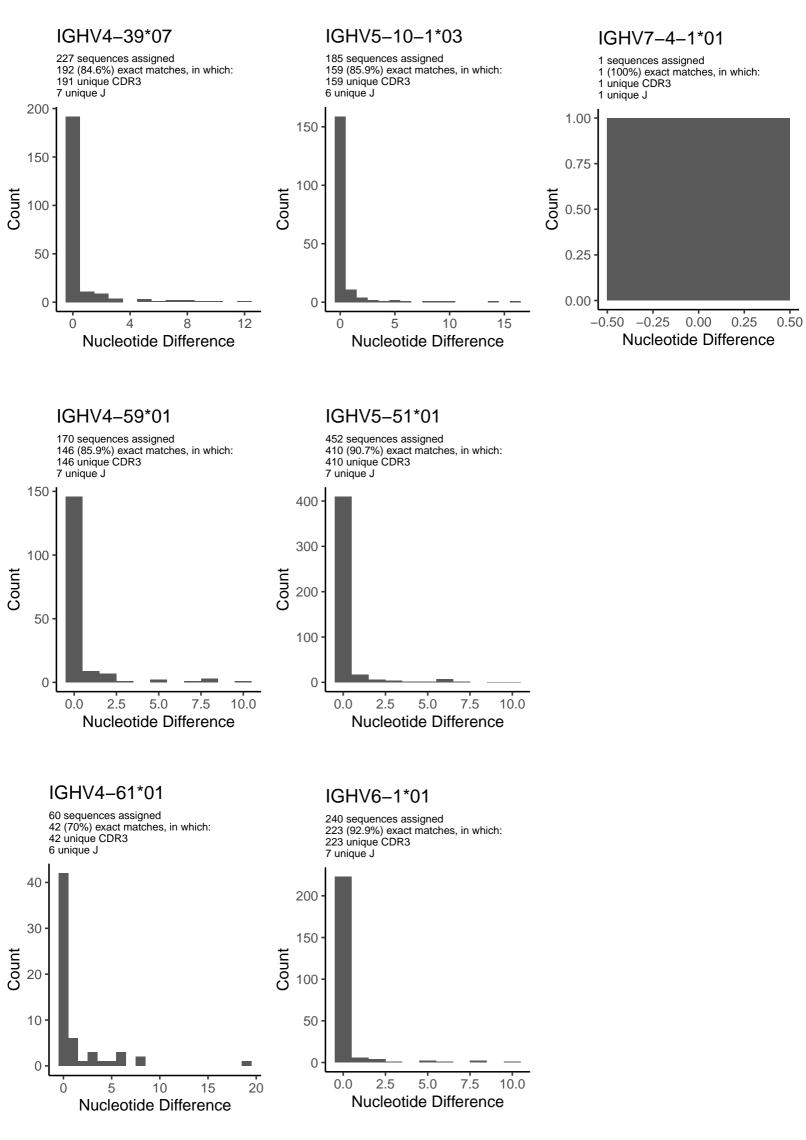










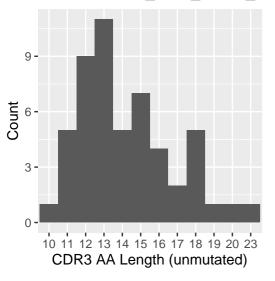


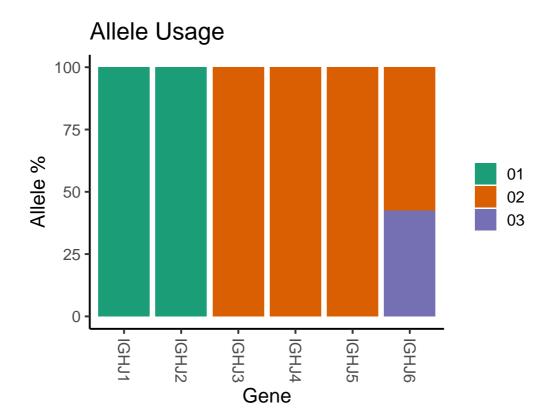
IGHV4-30-2*01_C285T

86221000

9 10 11 12 13 15 16 17 18 19 20 21 23 24 CDR3 AA Length (unmutated)

IGHV4-31*11_G4C_G21C_C25T_A113C





Sequence Count by IGHJ6 allele usage

