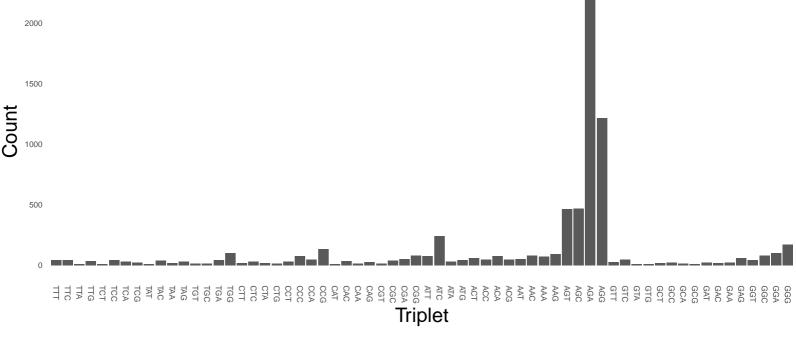
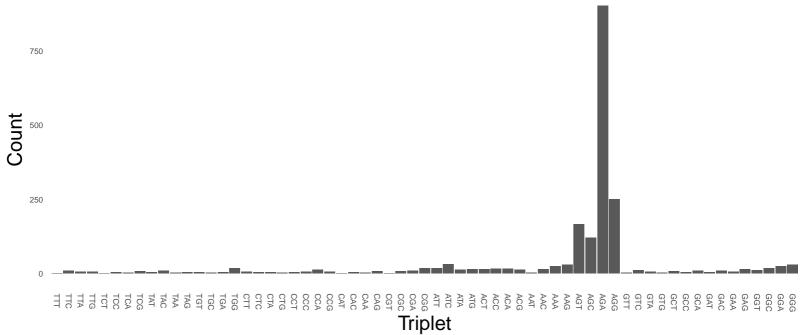
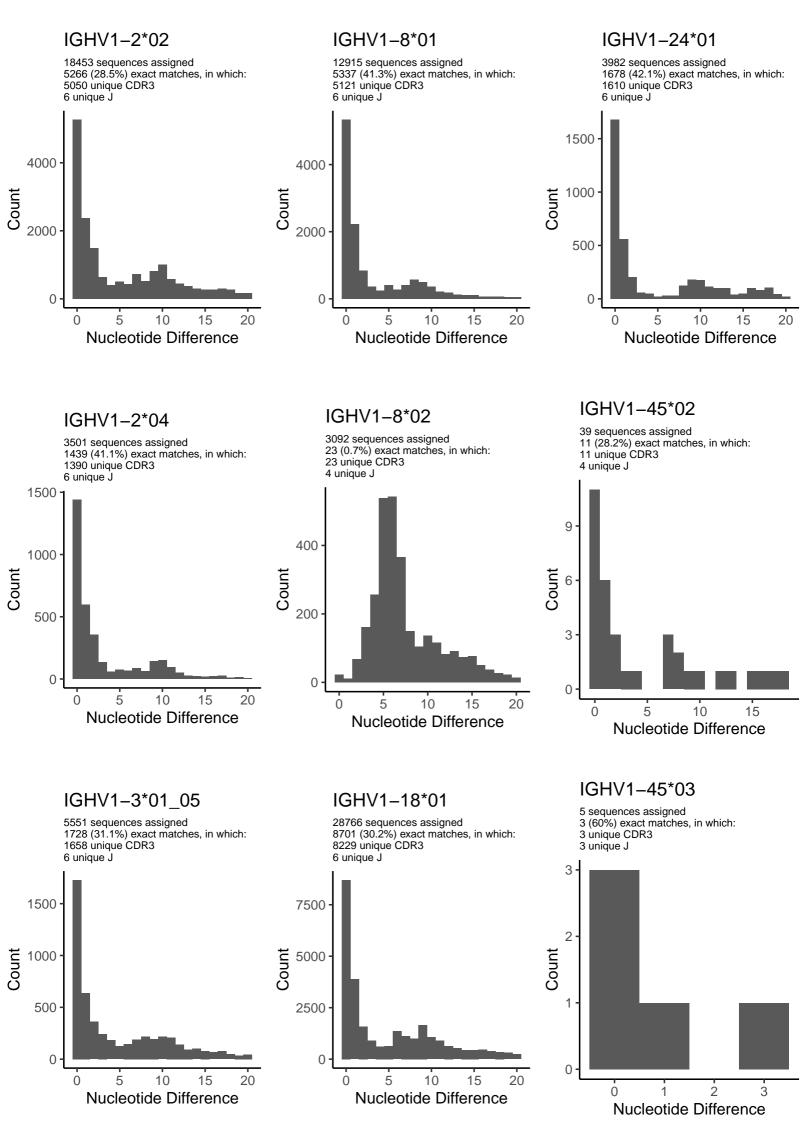


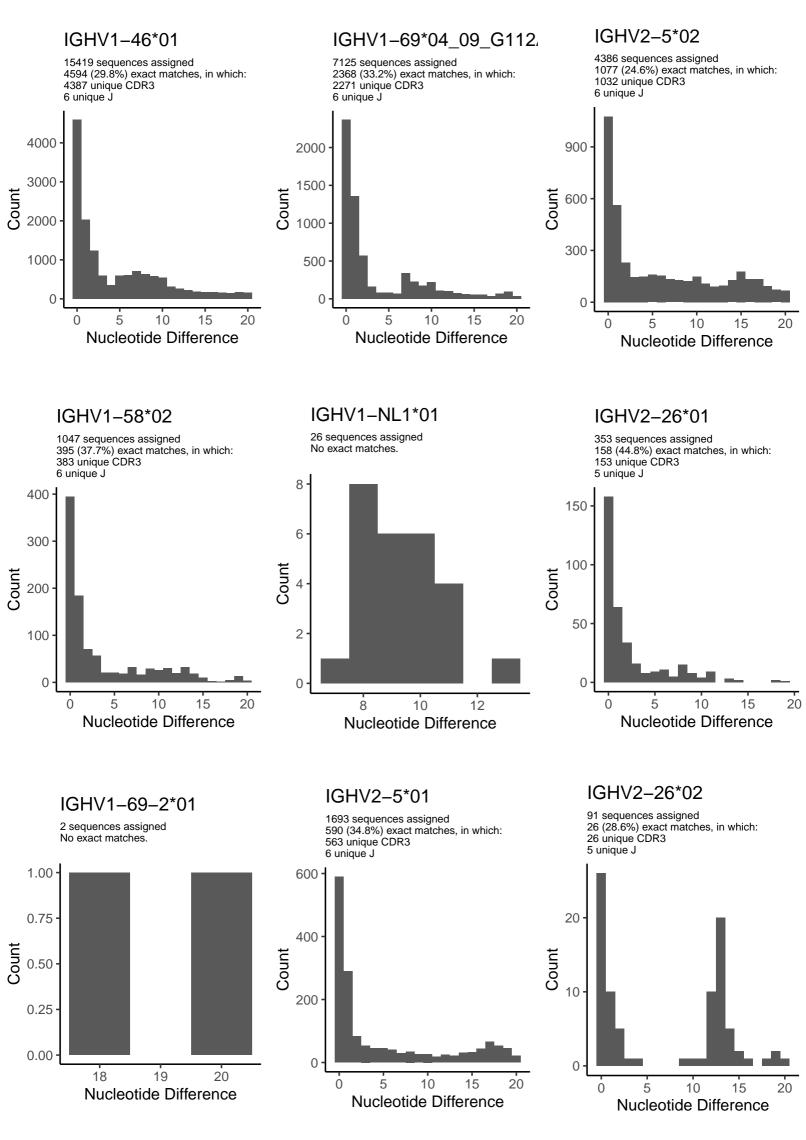
IGHV1-69*04_09_G112A- Final 3 nucleotides as a triplet

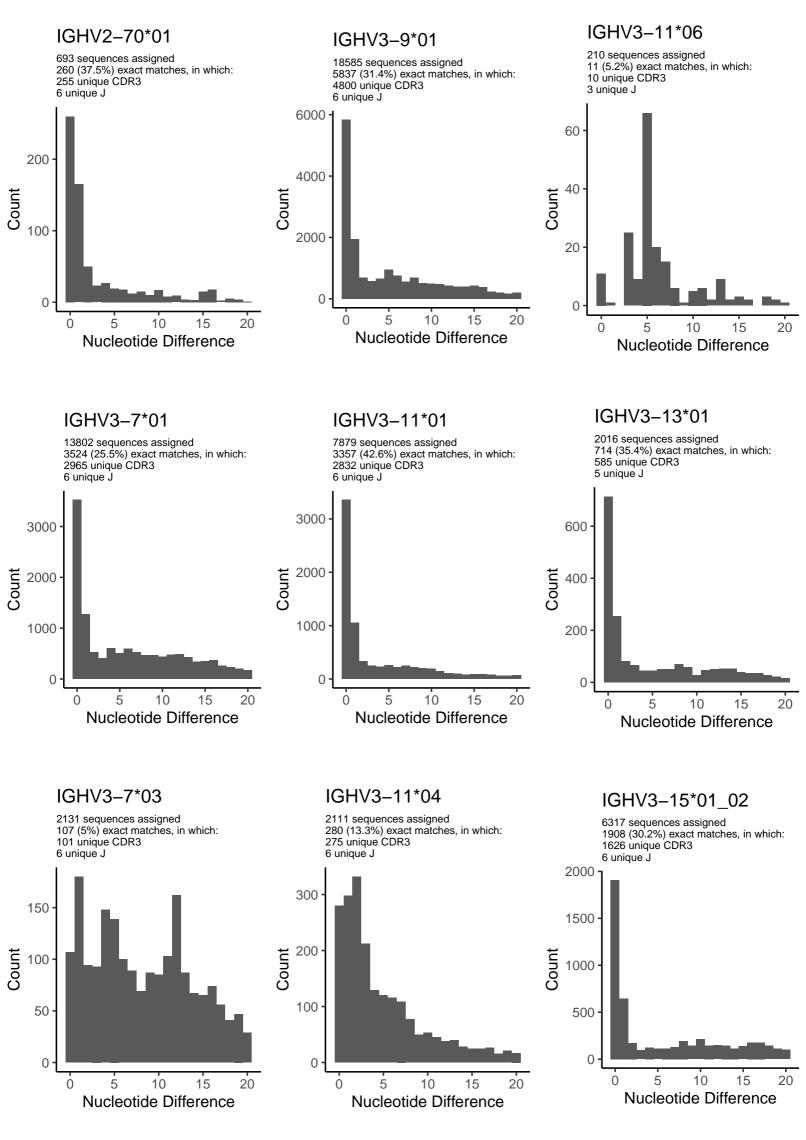


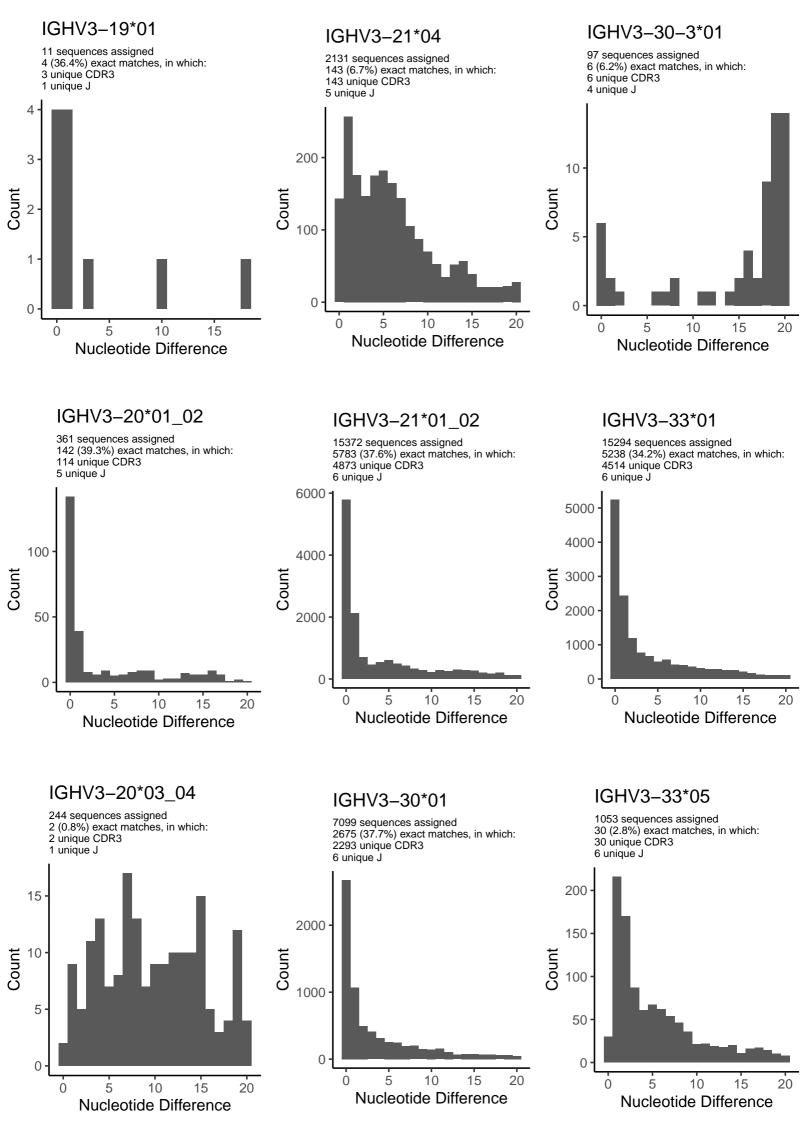
IGHV3-48*03_T303G- Final 3 nucleotides as a triplet

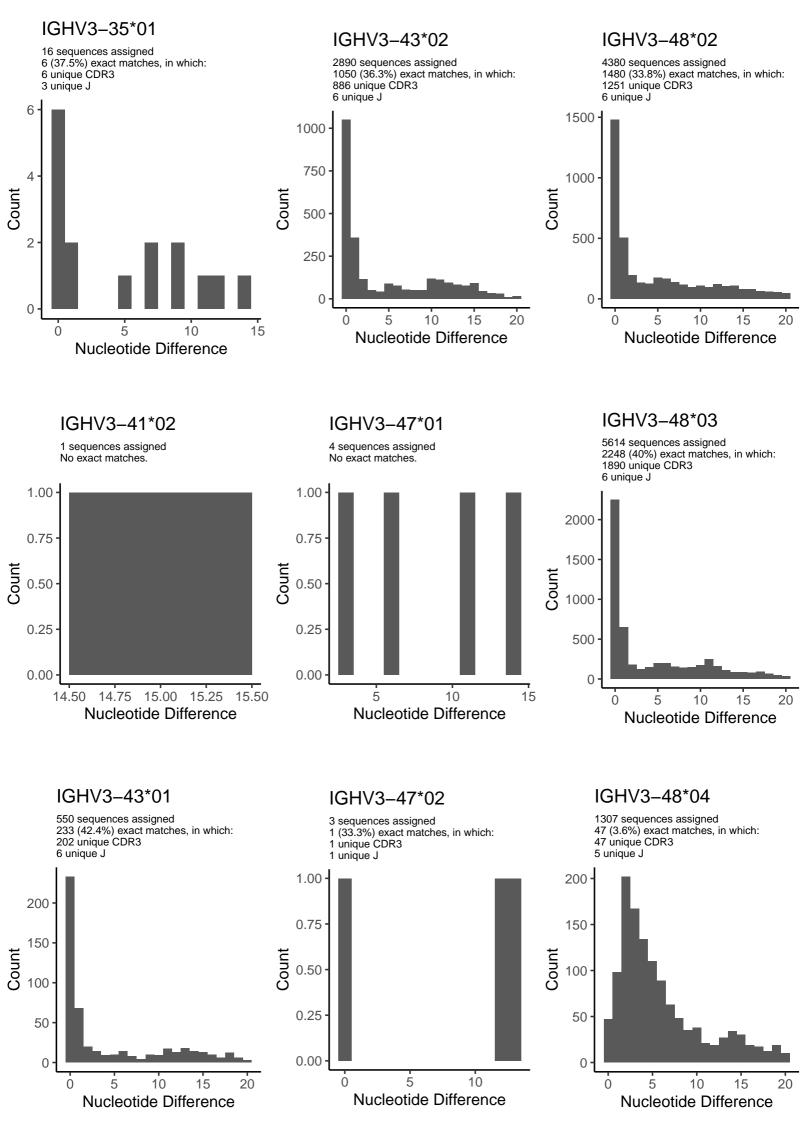


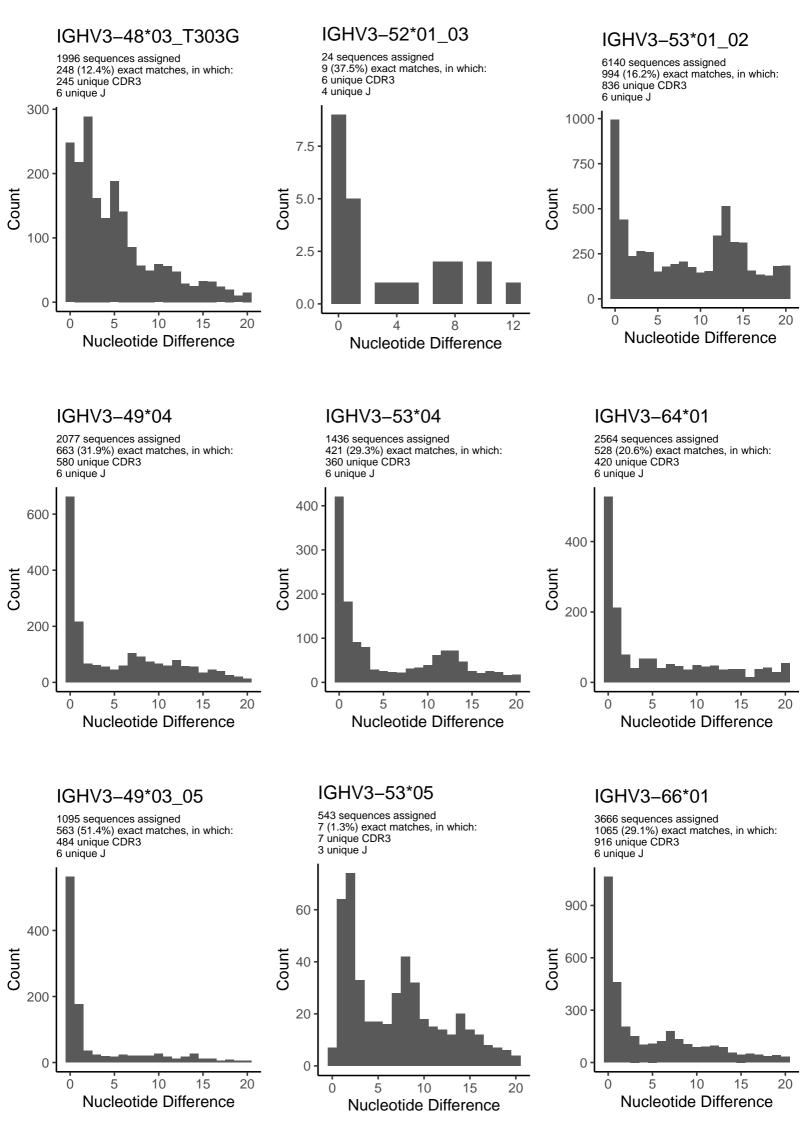


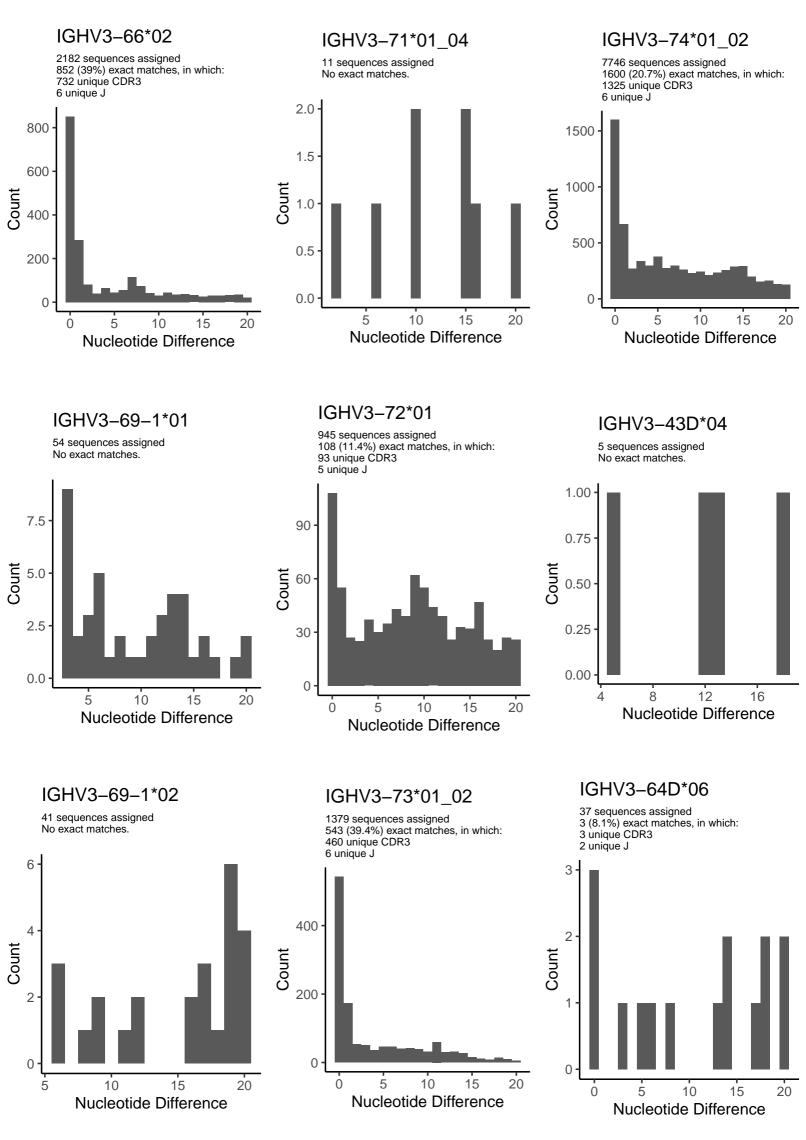


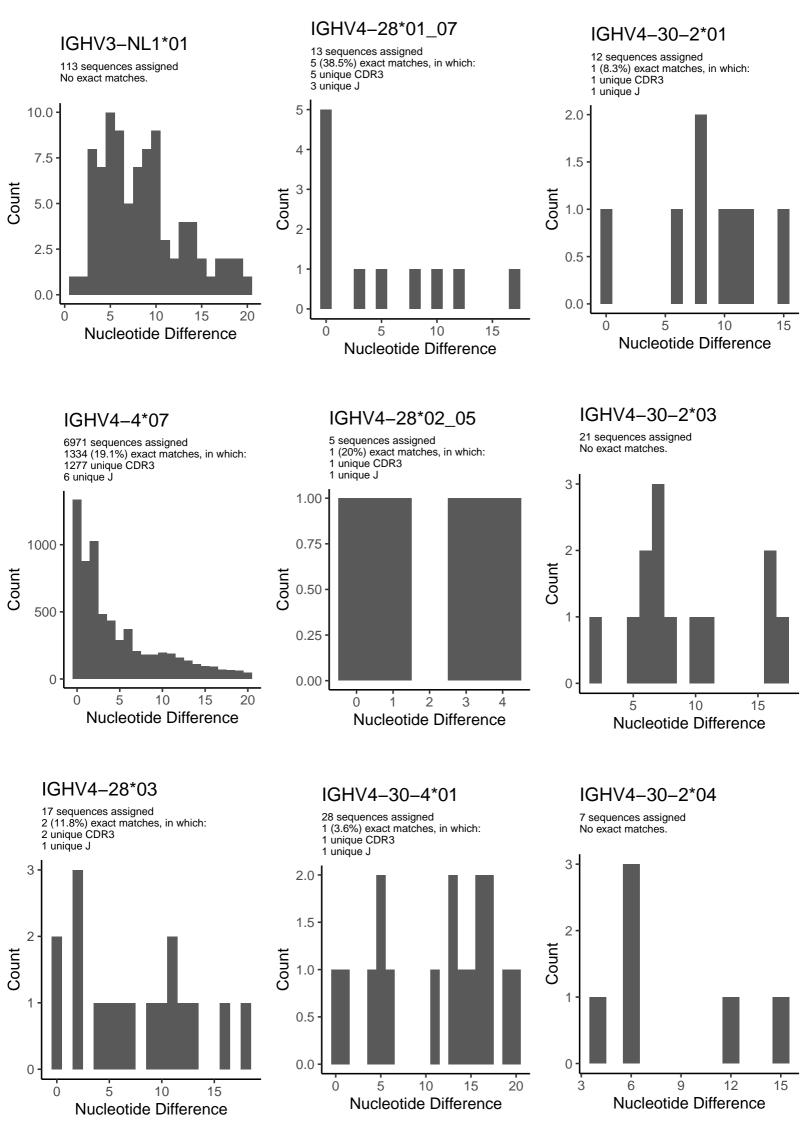


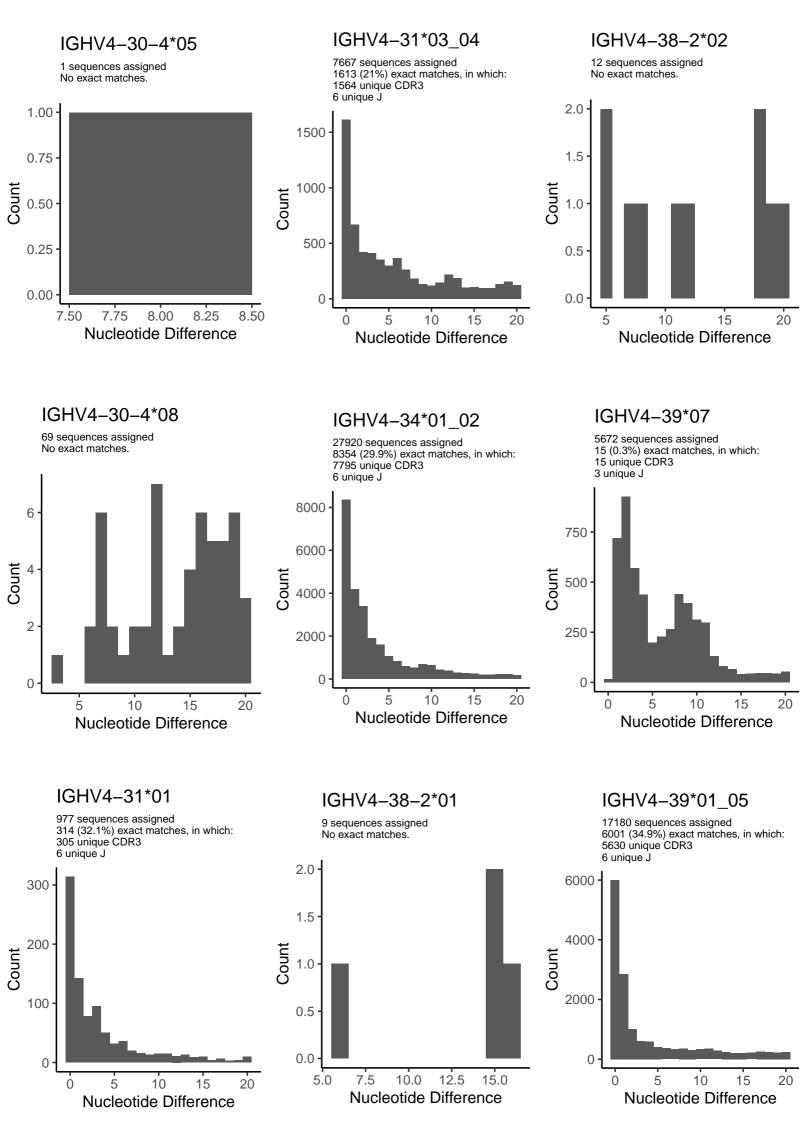


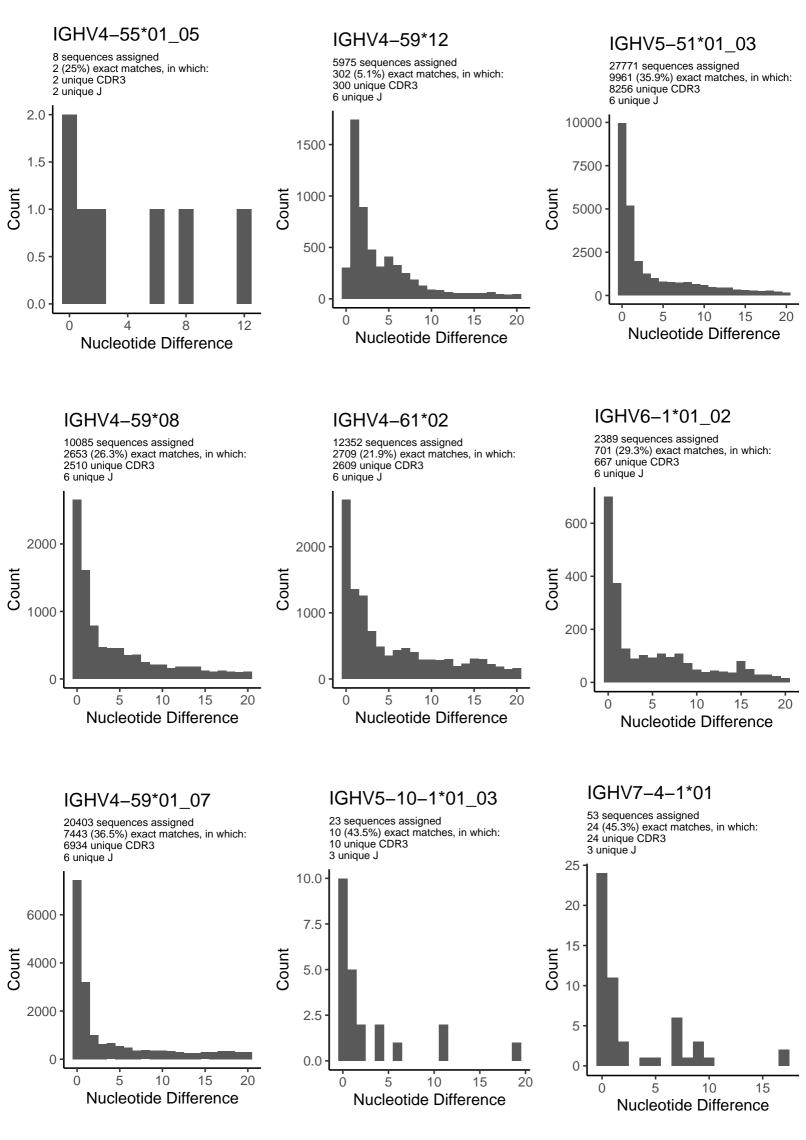














Novel sequence(s) IGHV1-69*01_12_13_G238A IGHV3-48*03_T303G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59*02_G88A are not listed in the genotype and will be ignored.