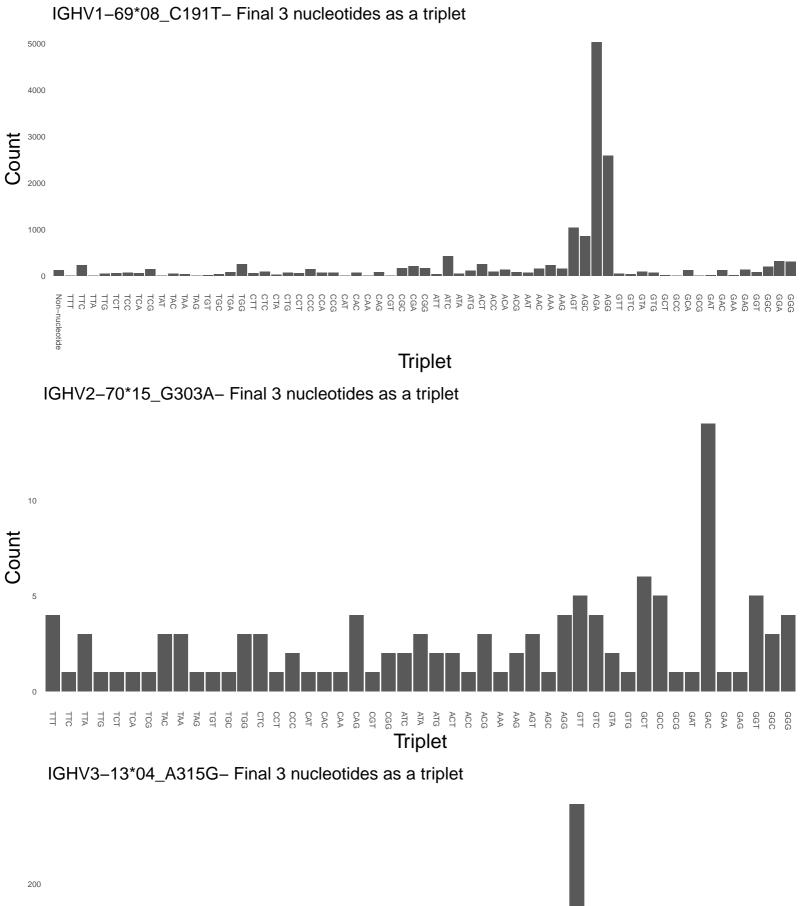
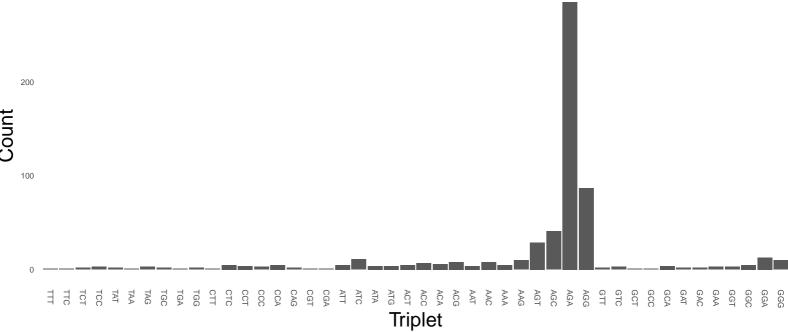
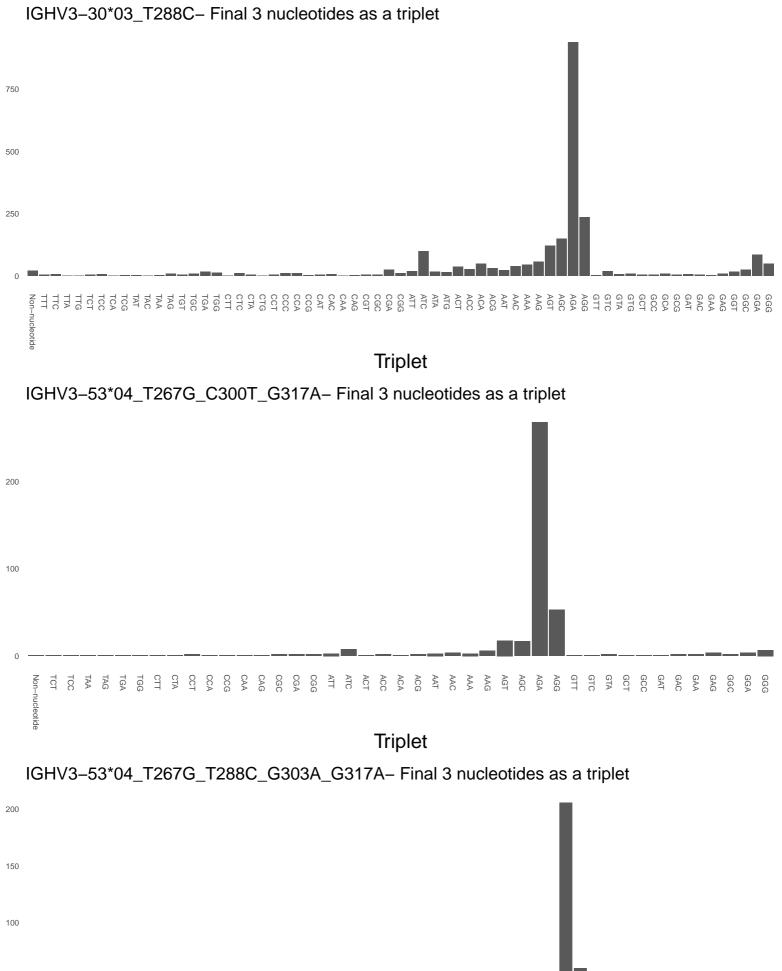


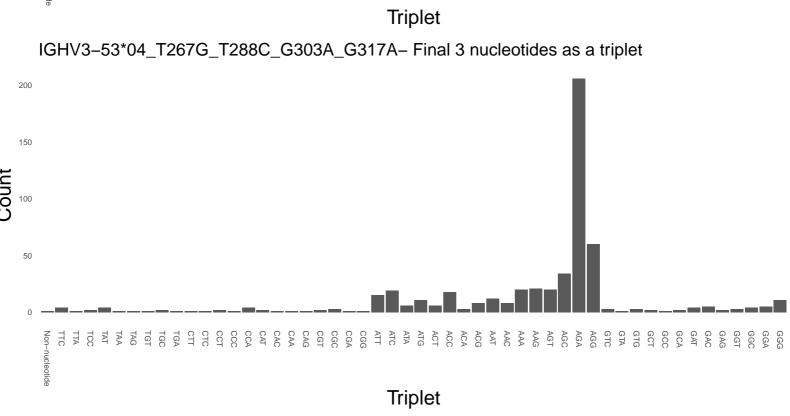
IGHV1-24*01_A315G_C317G- Final 3 nucleotides as a triplet 600 200 **Triplet** IGHV1-45*02_A315G- Final 3 nucleotides as a triplet 10.0 Count 2.5 0.0 ATC Triplet ACA AAG AGT AGG AGA IGHV1-58*02_G316A_C317G- Final 3 nucleotides as a triplet 300 Count

Triplet



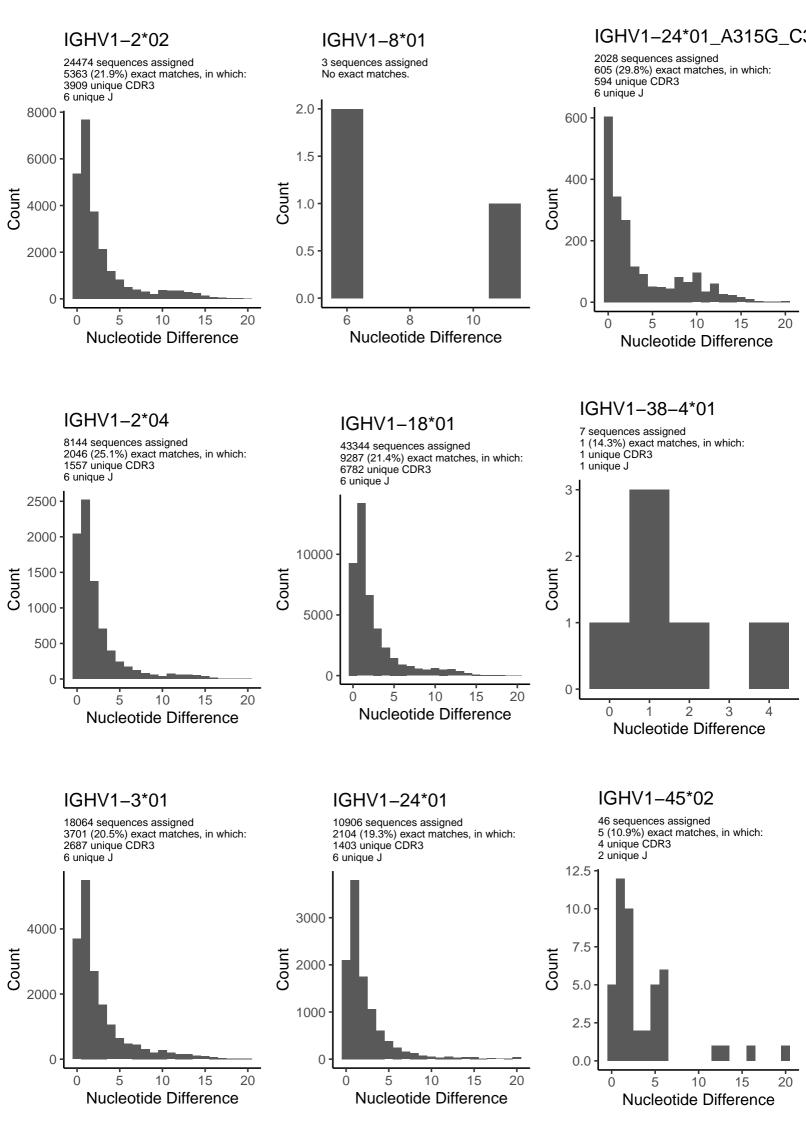


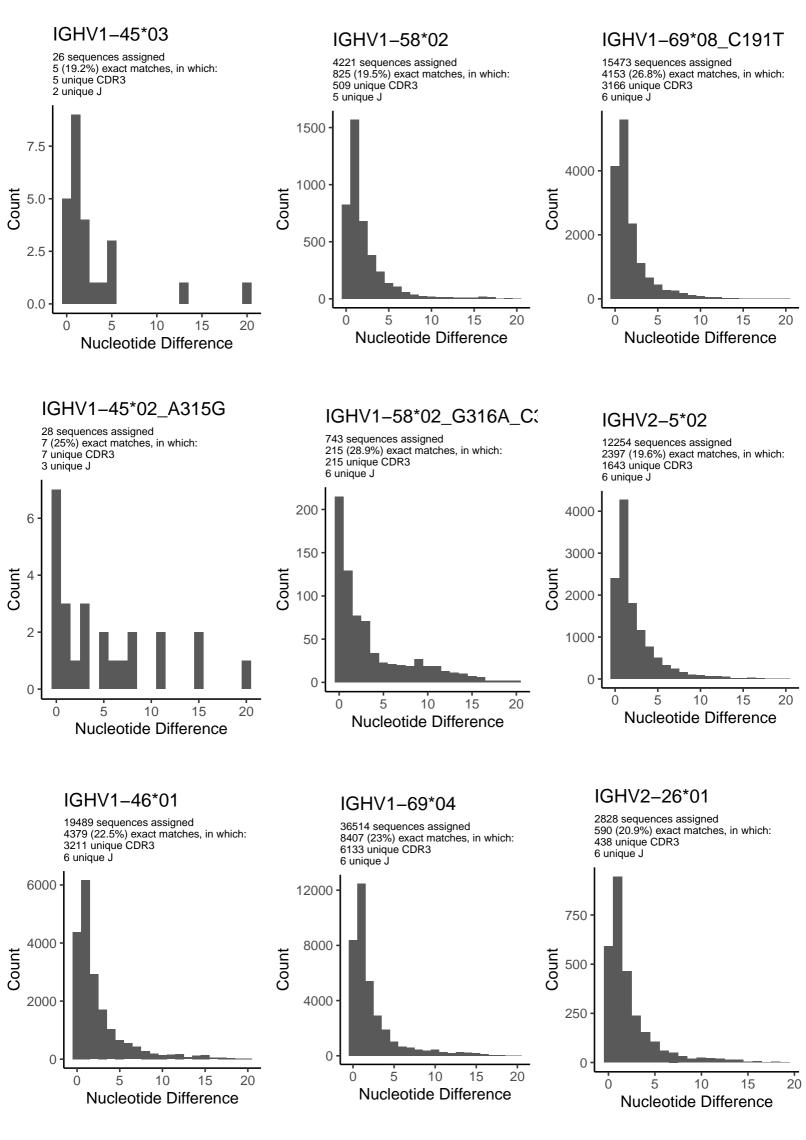


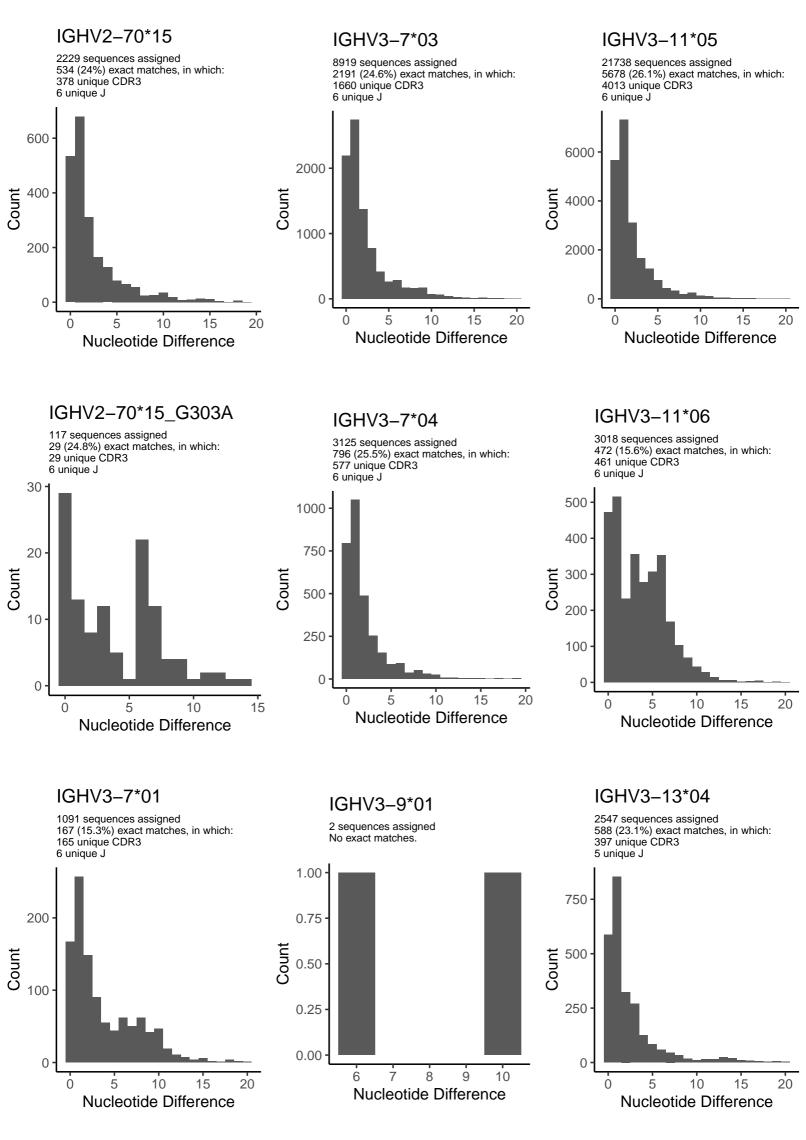


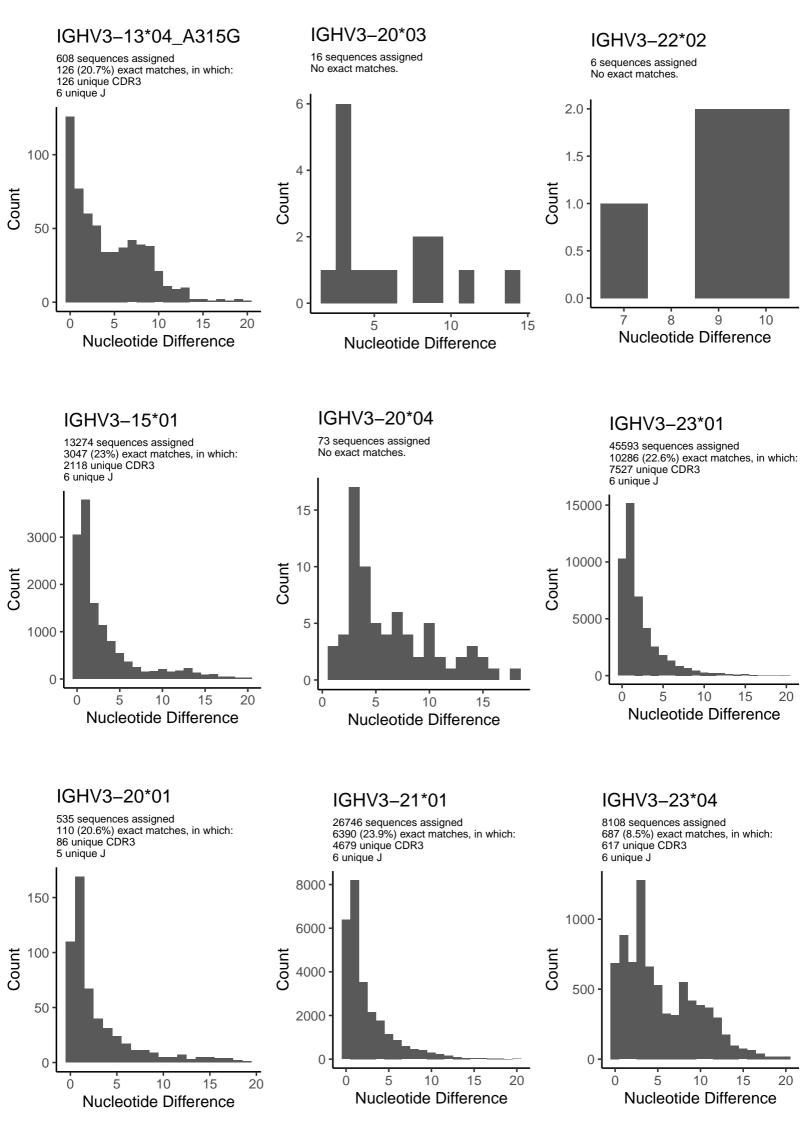
IGHV3-74*01_A315G- Final 3 nucleotides as a triplet 500 400 **Triplet** IGHV3-NL1*01_G49A_C159G_T160G_T201C_C223A_G267T_T288C_A317G- Final 3 nucleotide Count TGG CCC ACC ACG AGT AGG AGC **Triplet** IGHV3-NL1*01_G49A_G75C_T201C_C223A_G267T_T288C_A317G- Final 3 nucleotides as a tri 100 Count 25 AGC
AAG
AAAG
AAAC
ACA
ACA
ACT
ATTA
ATTG
ATTA CCA CCG CAA CAG CGT CGC CGA CGG AGA AGG GTC **Triplet**

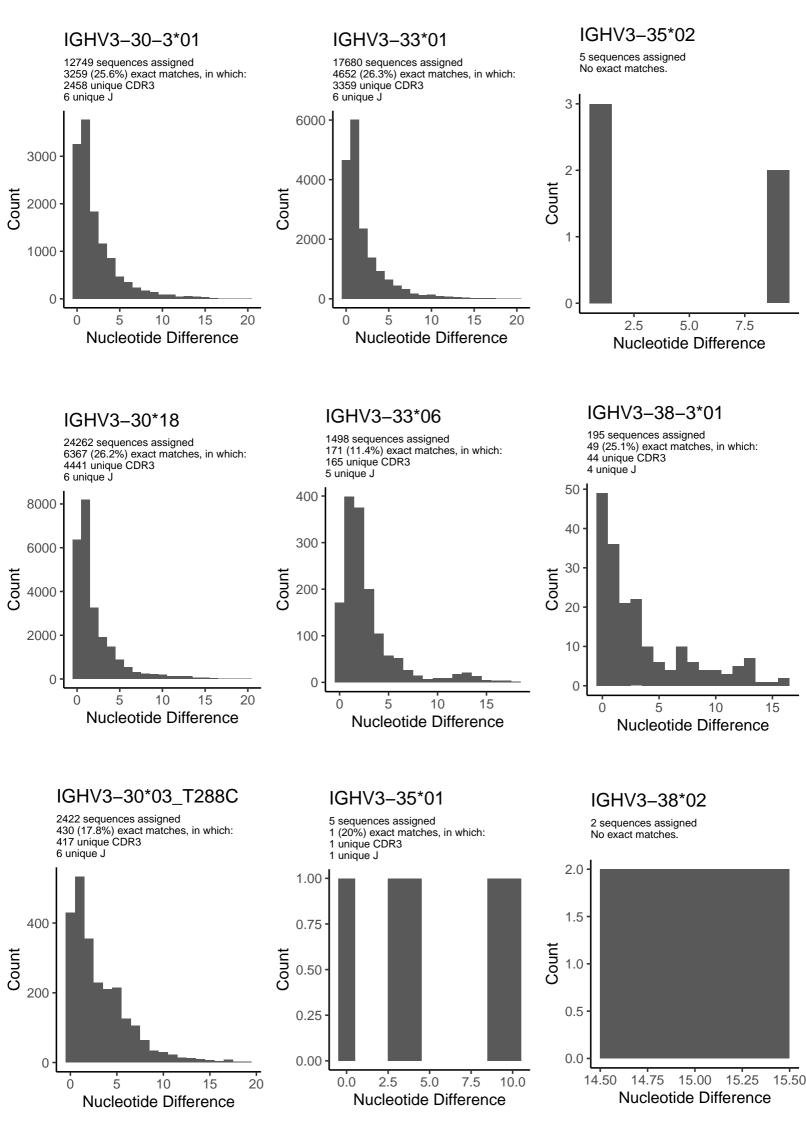
IGHV4-30-2*01_C315G- Final 3 nucleotides as a triplet 300 **Triplet** IGHV4-30-4*01_C315G- Final 3 nucleotides as a triplet **Triplet** IGHV4-38-2*02_A291G- Final 3 nucleotides as a triplet **Triplet**

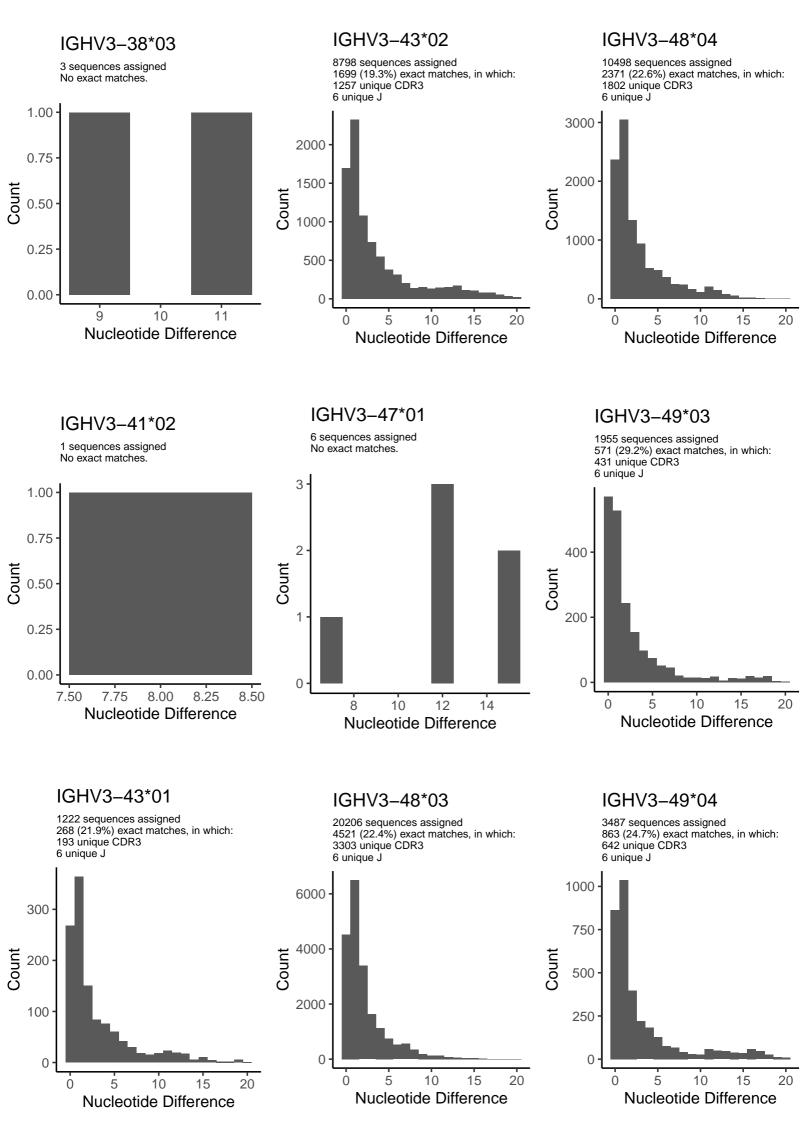


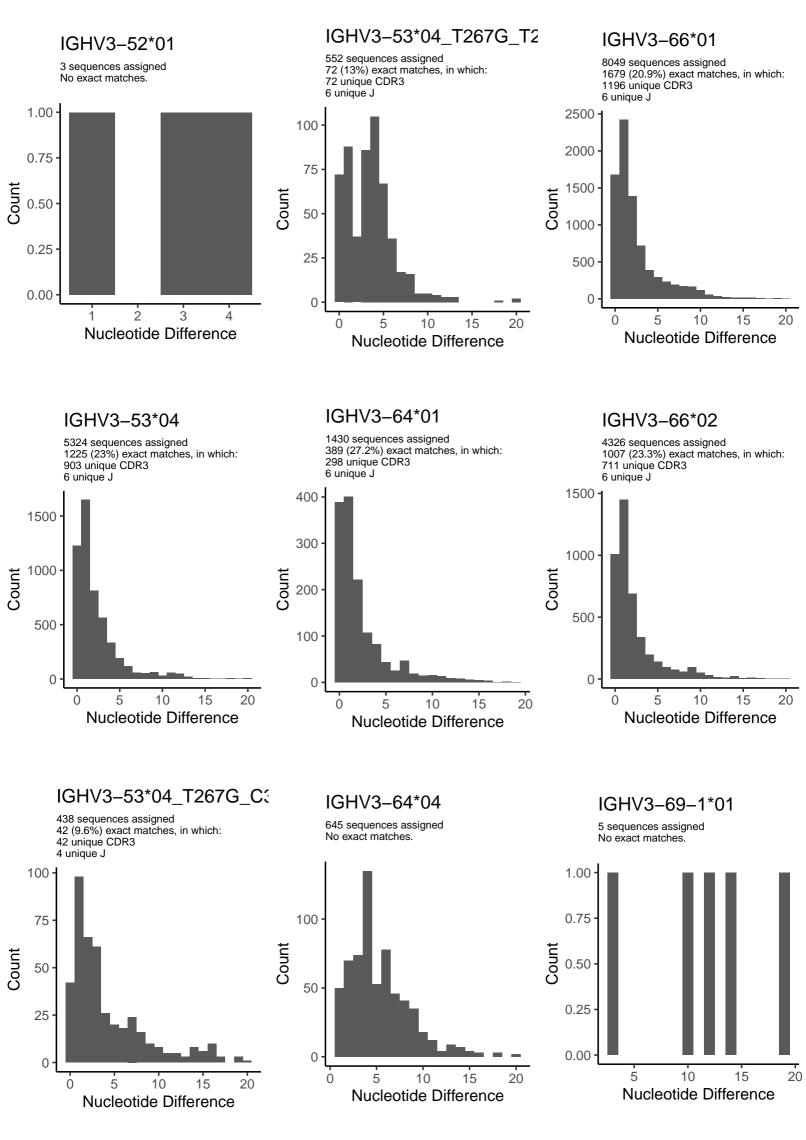


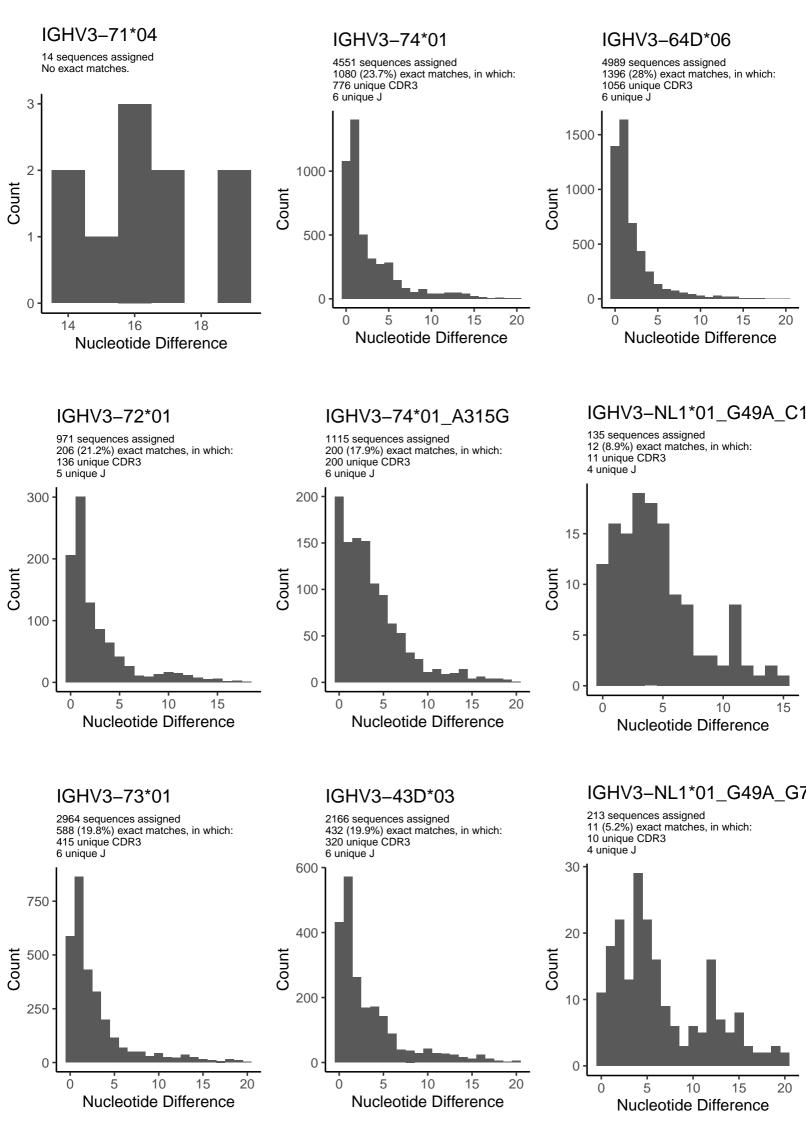


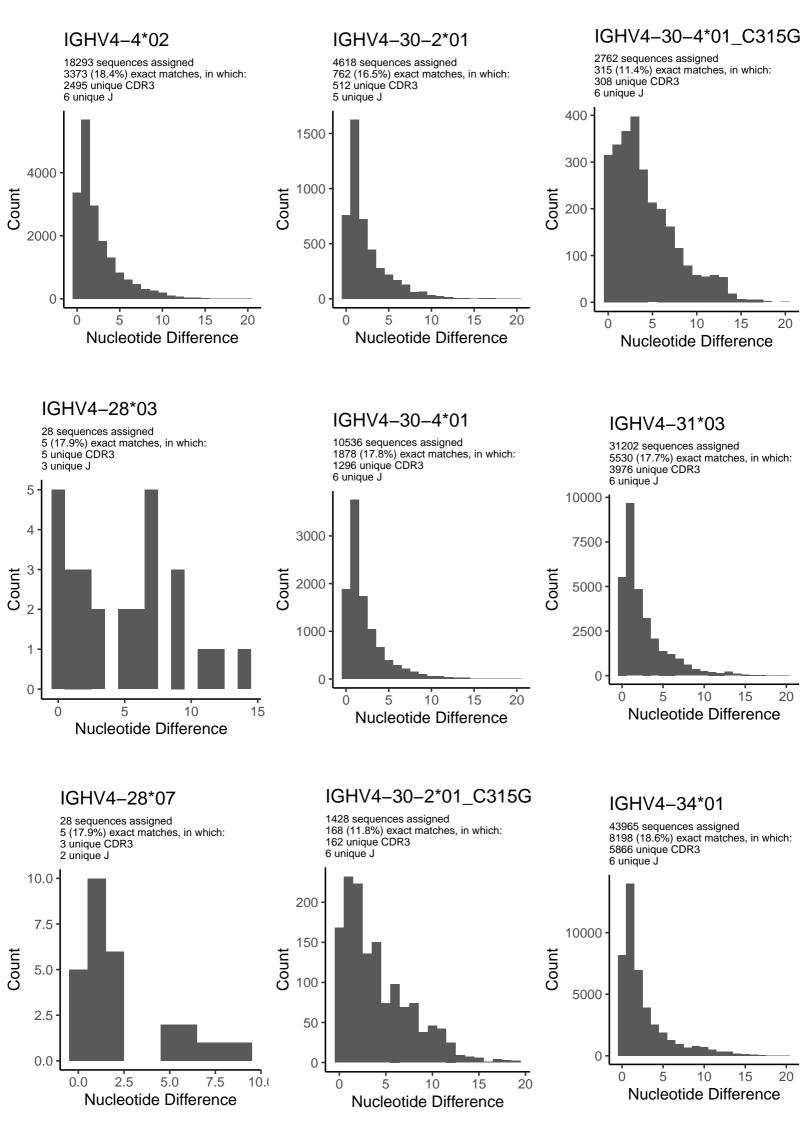


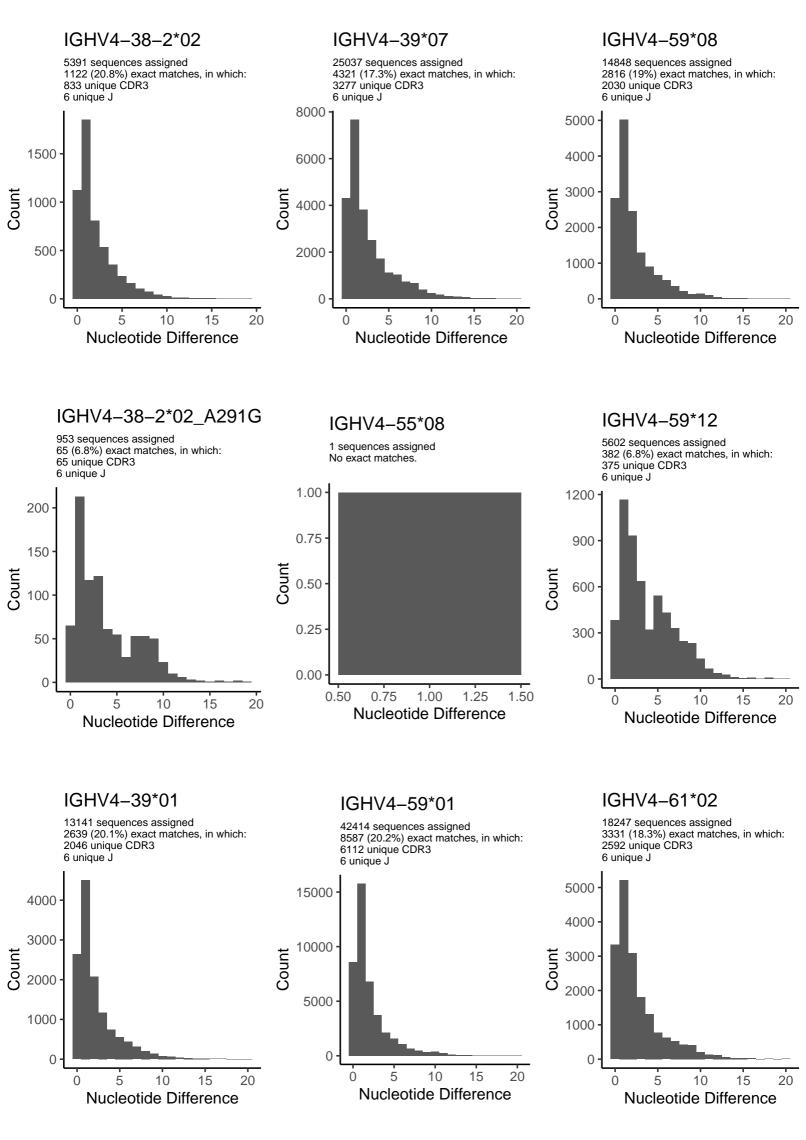


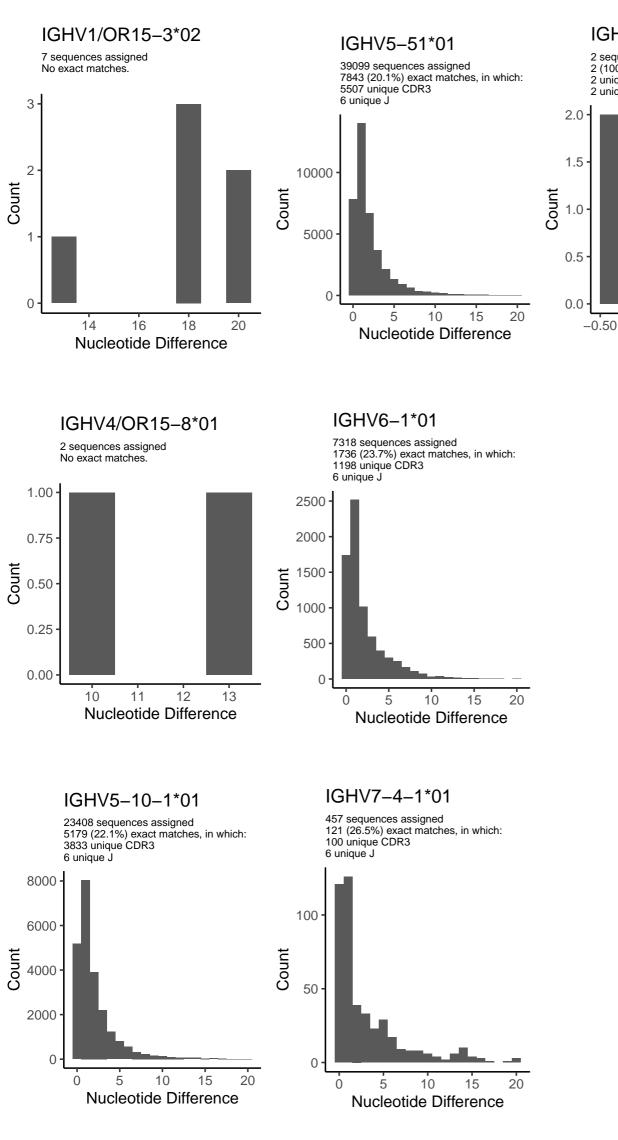












IGHV7-81*01

2 sequences assigned

-0.25

0.00

Nucleotide Difference

0.25

2 unique CDR3 2 unique J

2 (100%) exact matches, in which:

0.50

