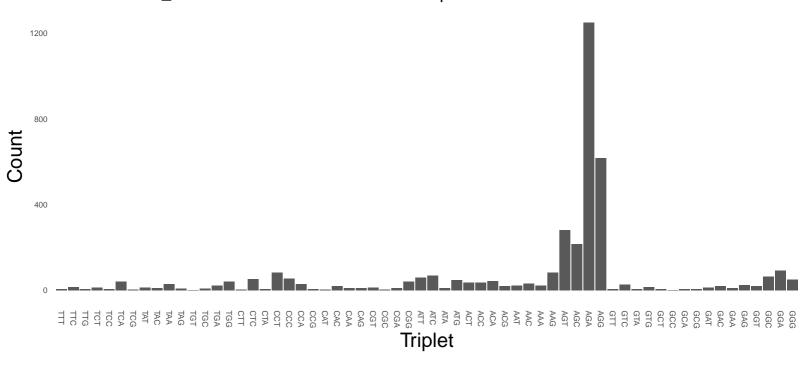
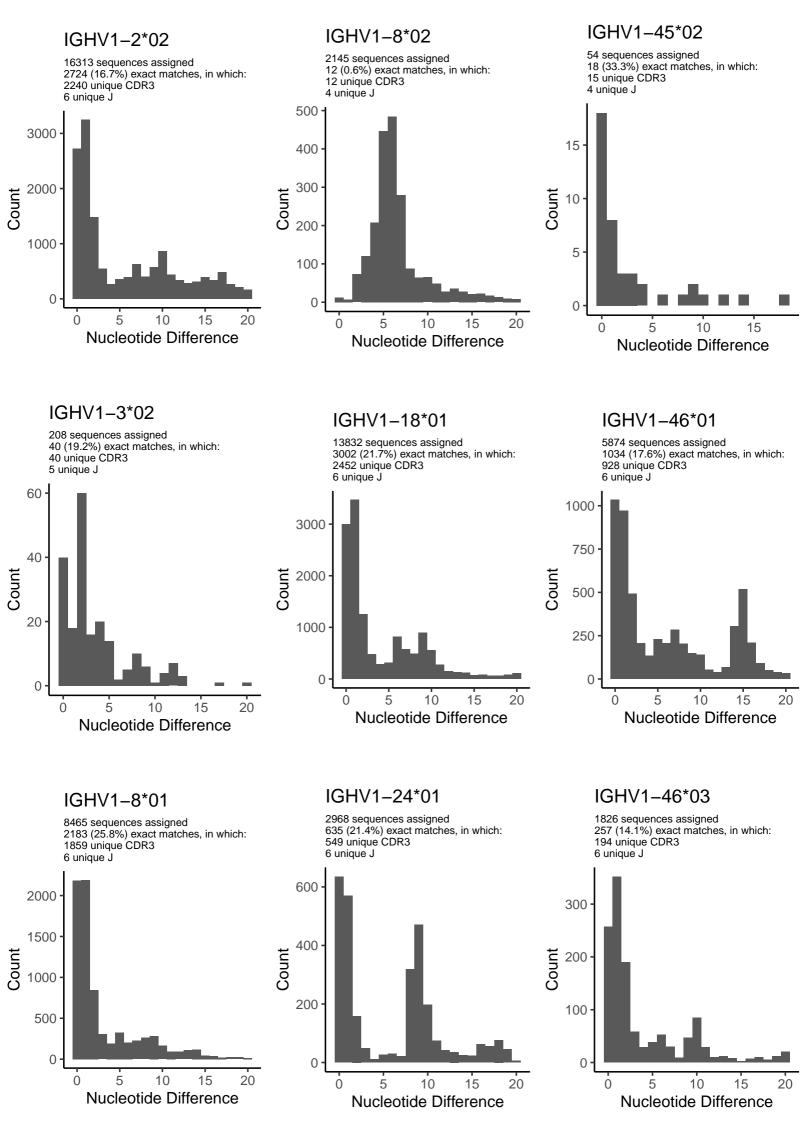
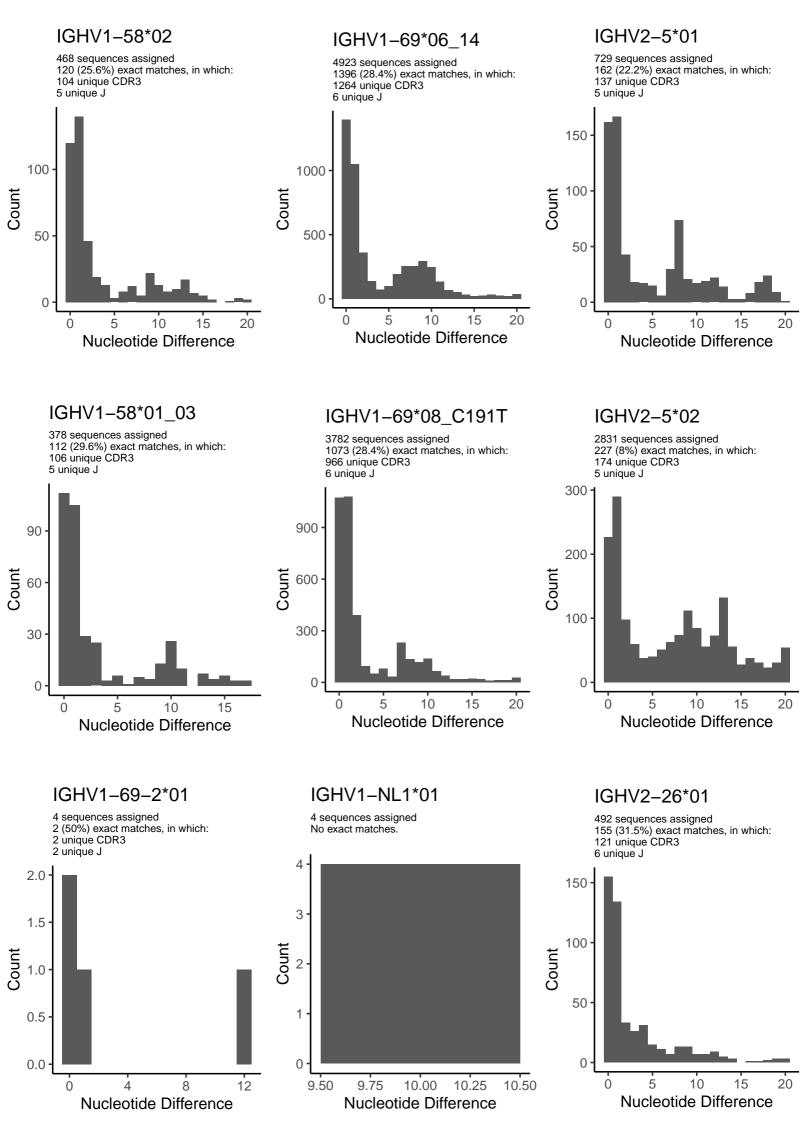
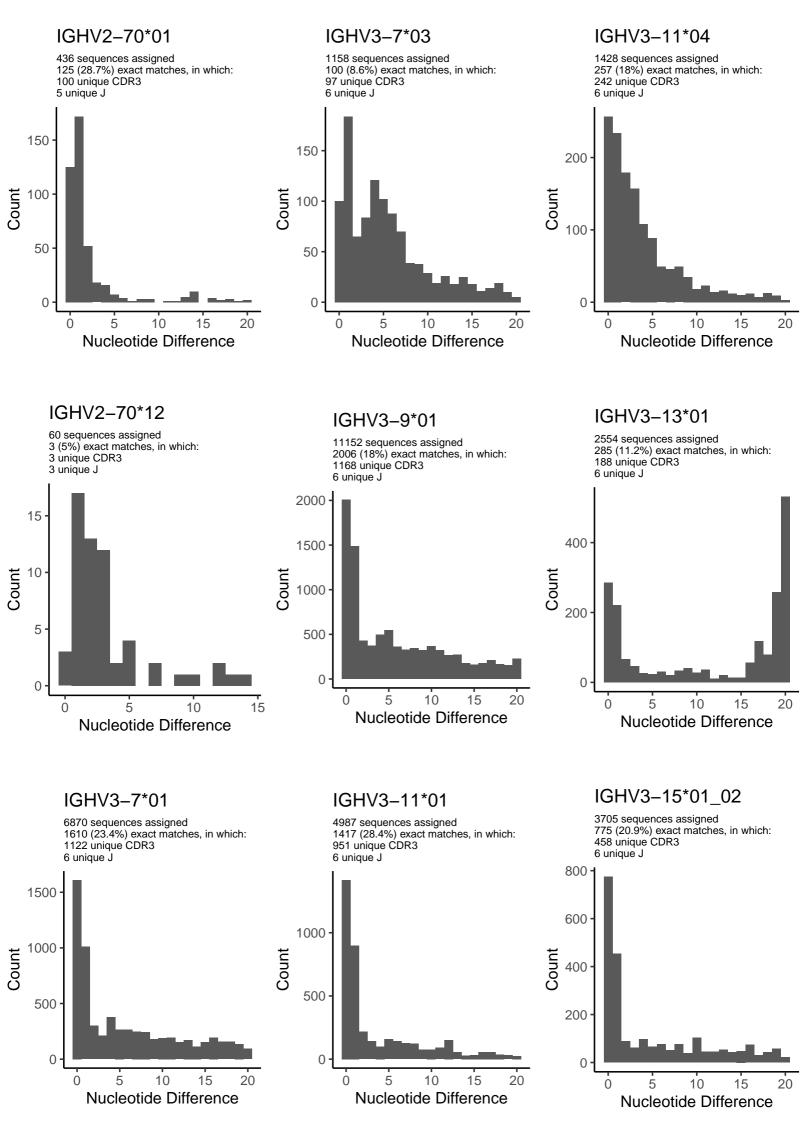


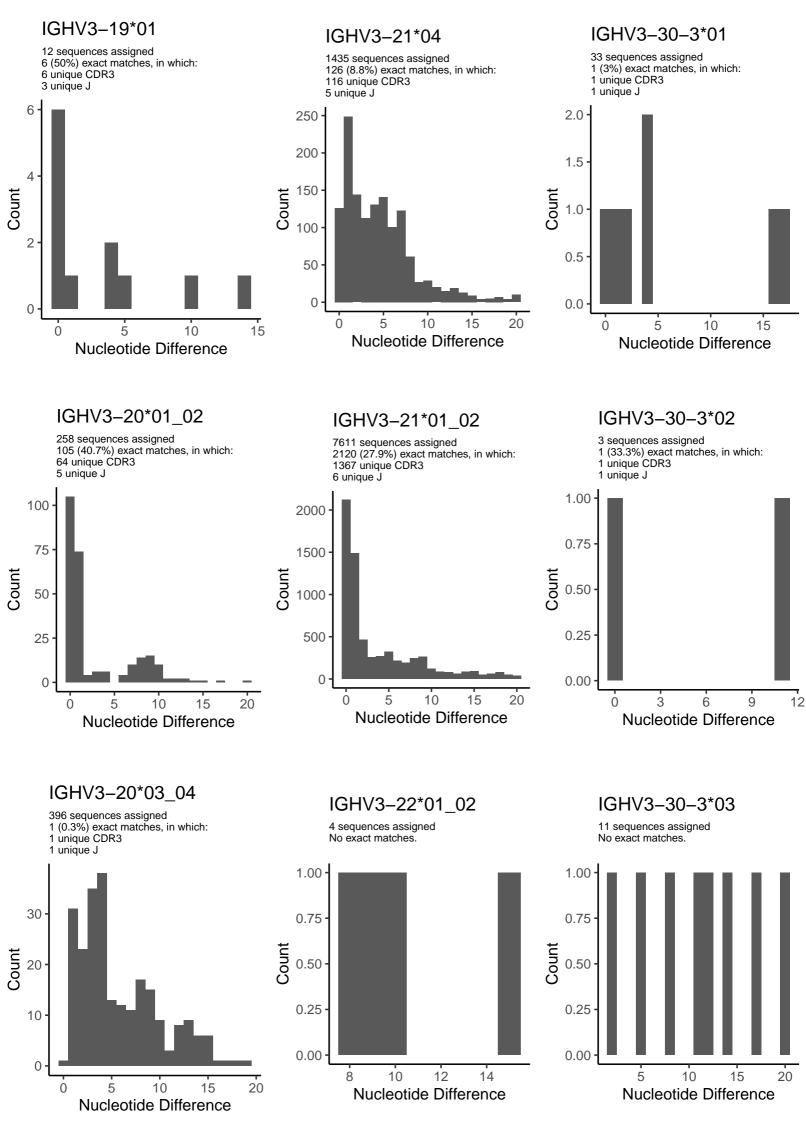
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet

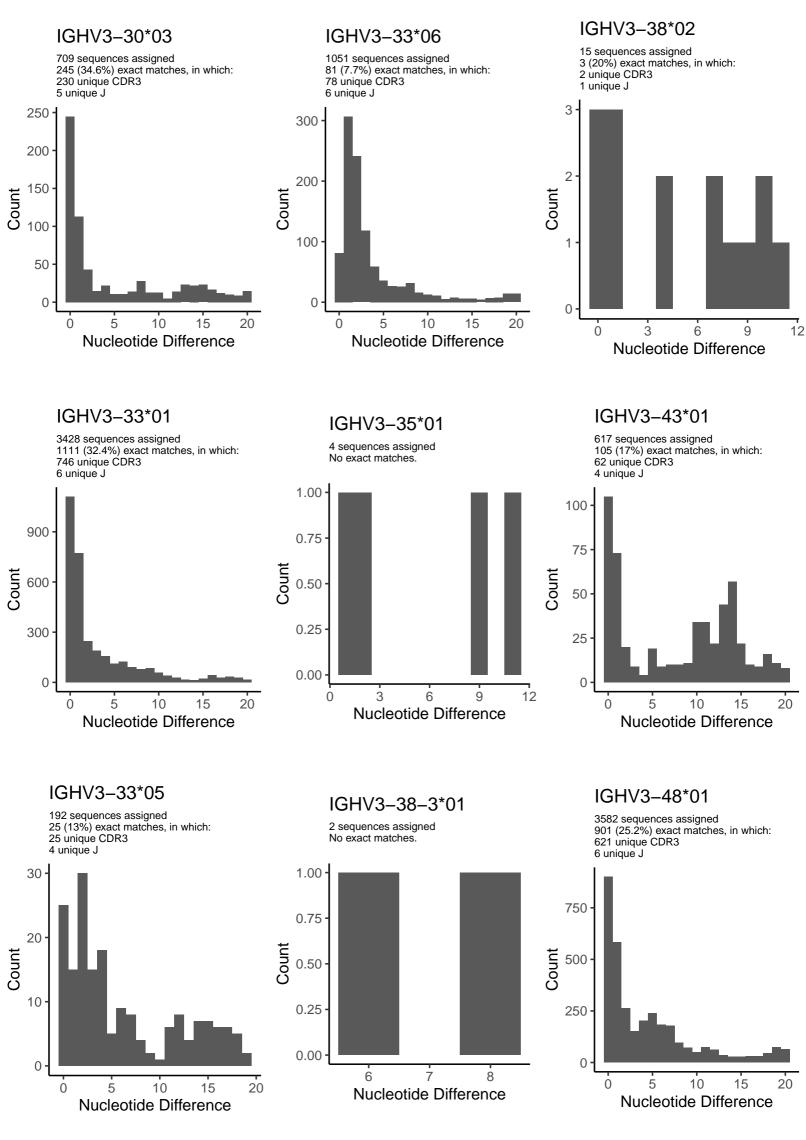


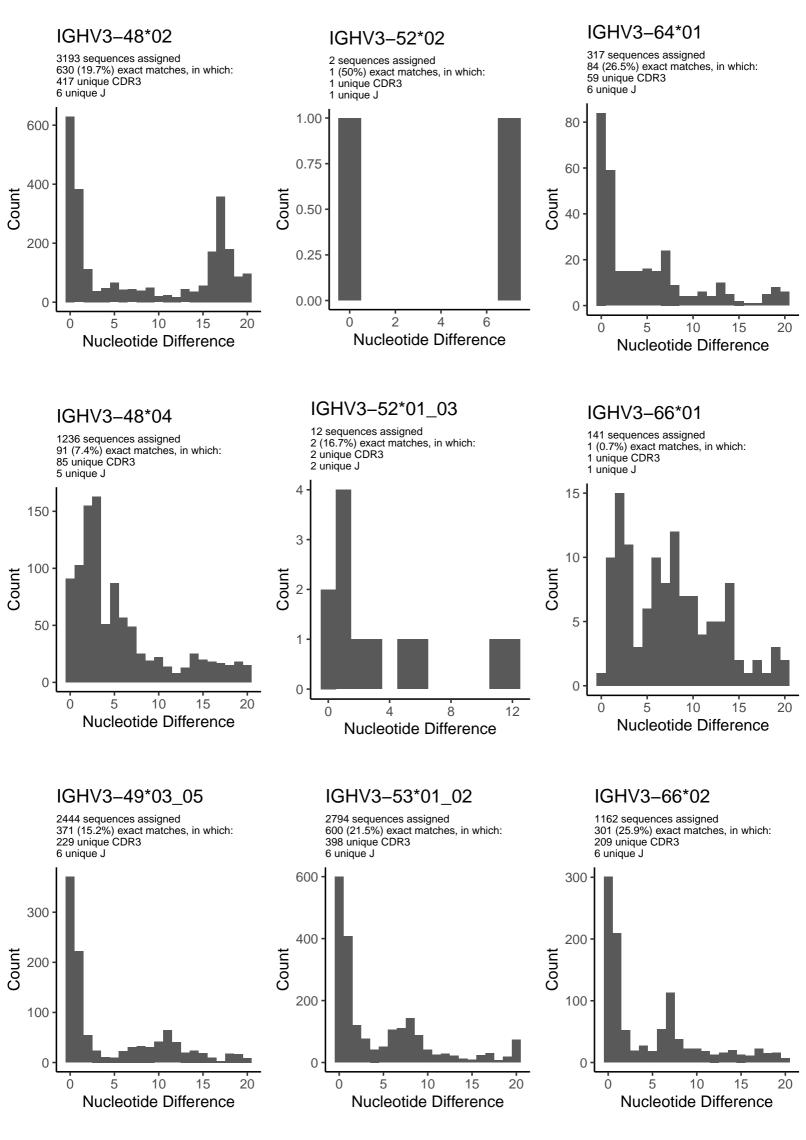


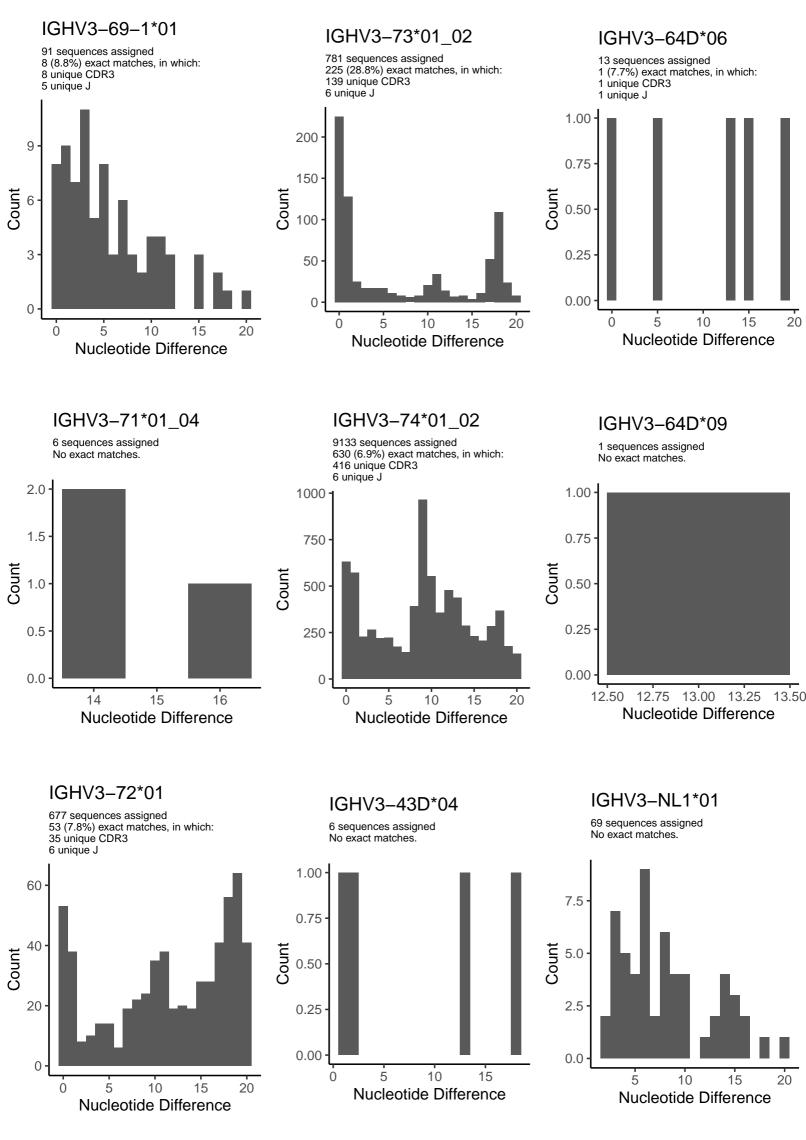


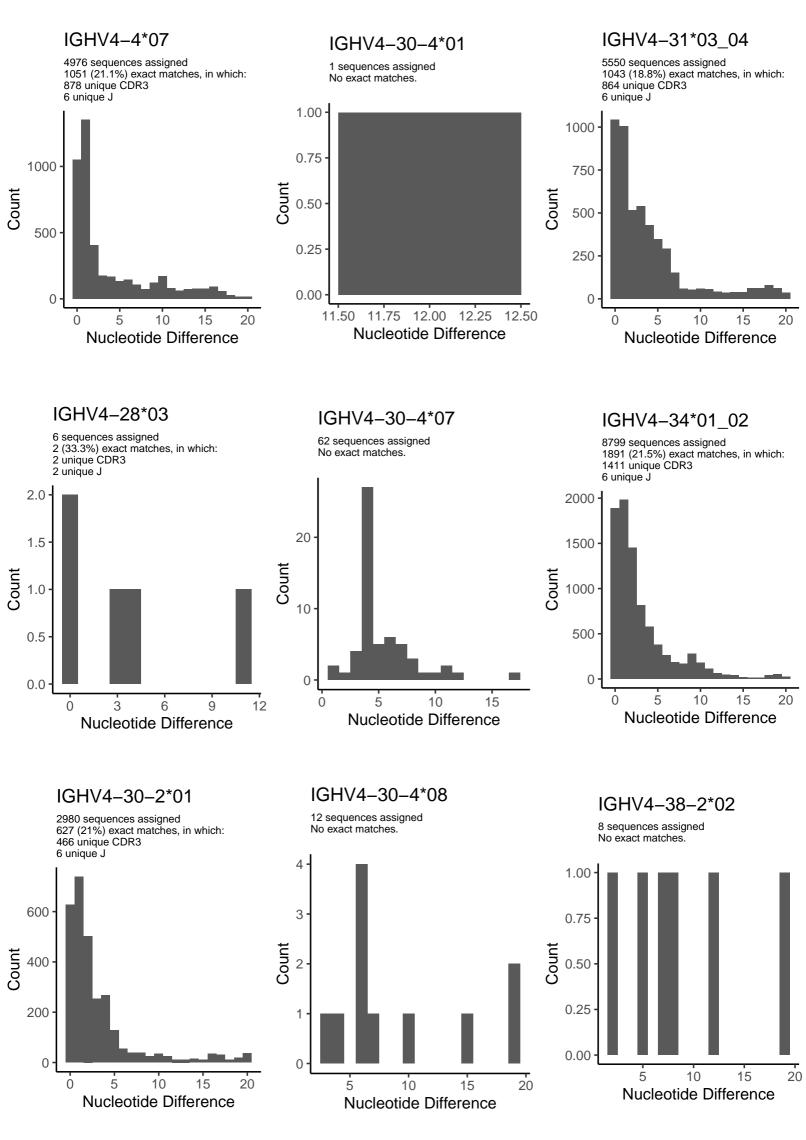


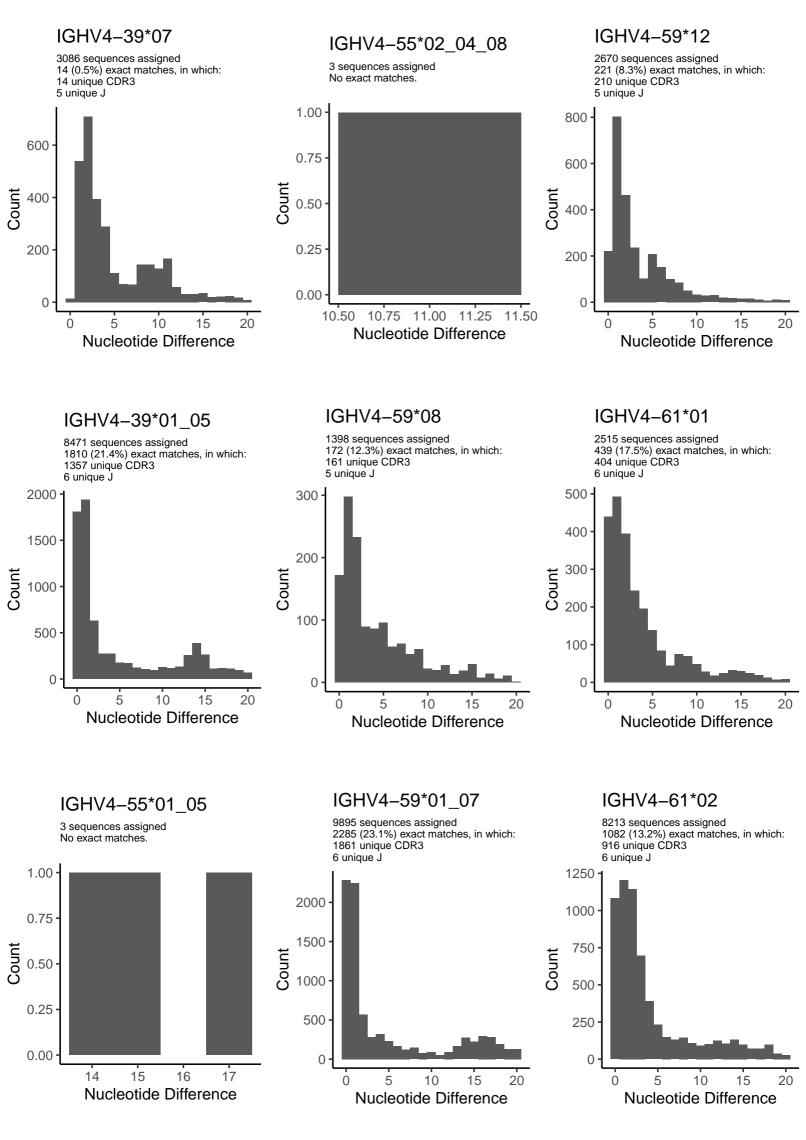








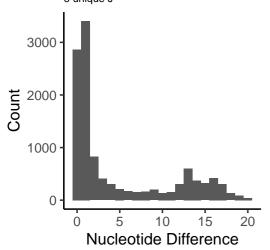




IGHV6-1*01_02 IGHV4-61*08 895 sequences assigned 1 (0.1%) exact matches, in which: 1 unique CDR3 1233 sequences assigned 198 (16.1%) exact matches, in which: 160 unique CDR3 1 unique J 6 unique J 300 -150 200 Count 100 100 50 0 0 10 10 15 20 0 5 15 20 0 5 **Nucleotide Difference Nucleotide Difference** IGHV5-10-1*01_03 IGHV7-4-1*02 2 sequences assigned 2 sequences assigned No exact matches. No exact matches. 1.00 -1.00 -0.75 0.75 Count Count Count 0.50 0.25 0.25 0.00 0.00 6.5 7.0 7.5 8.0 8.5 10.0 12.5 15.0 Nucleotide Difference **Nucleotide Difference**

IGHV5-51*01_03

11968 sequences assigned 2867 (24%) exact matches, in which: 1485 unique CDR3 6 unique J





Novel sequence(s) IGHV3-30-3*01_T288C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-30*03_T288C 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.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s) IGHV3-33*01_G75C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-33*01_G75C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-30*03_T288C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning - no inferred sequences found.

Novel sequence(s) IGHV1-69*04_09_G112A IGHV4-59*02_G88A IGHV5-10-1*01_03_T258C IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV1-69*08_C191T IGHV3-48*03_T303G IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.