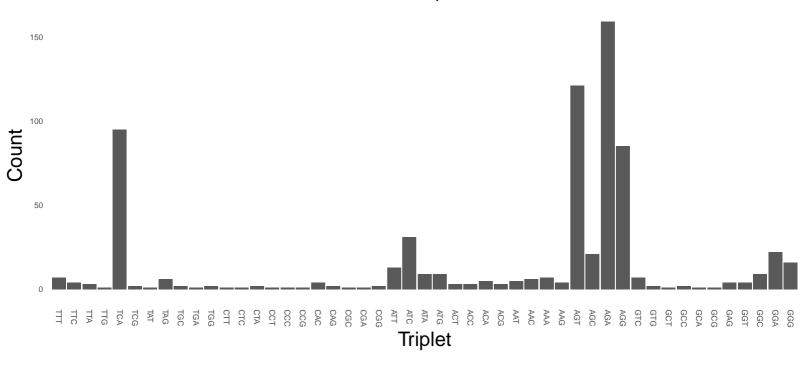
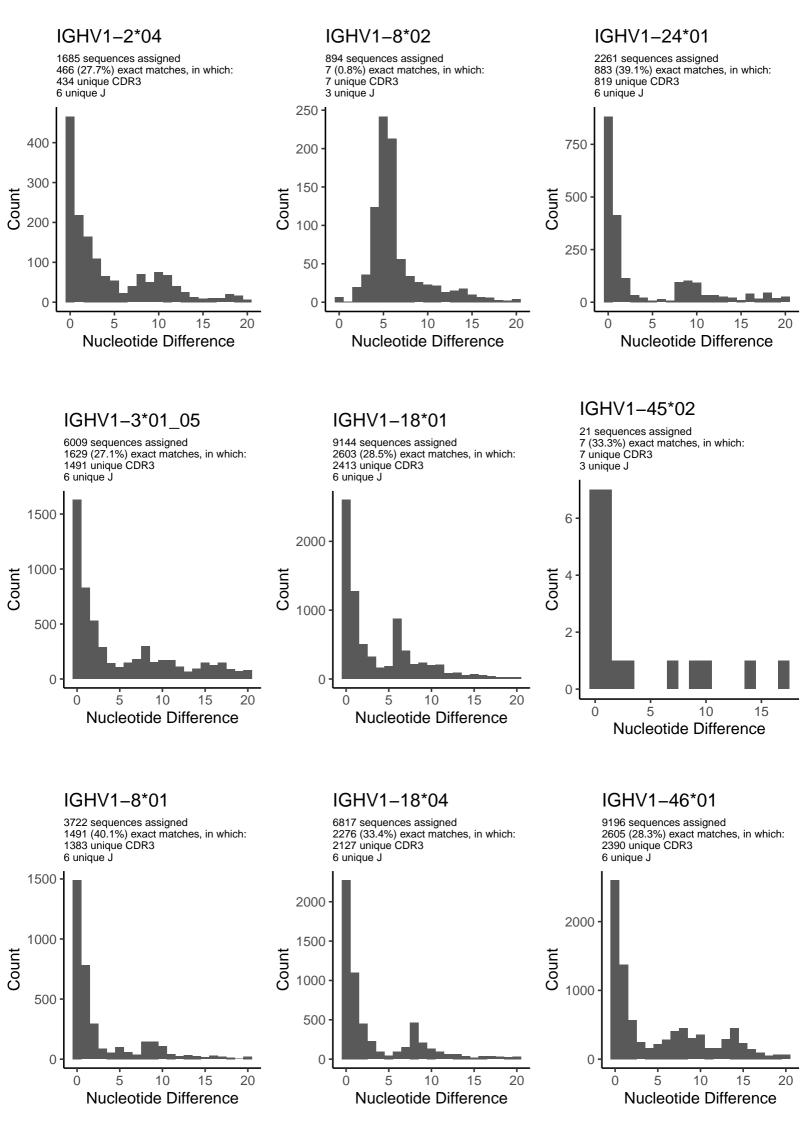
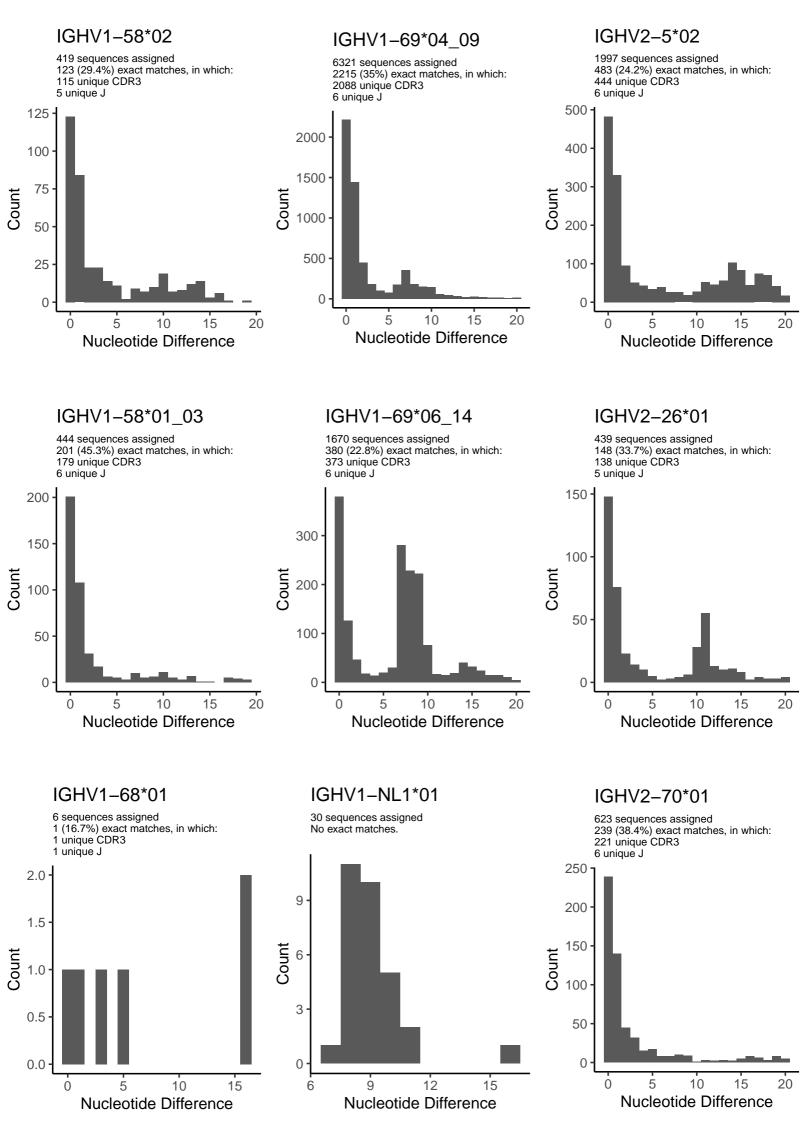
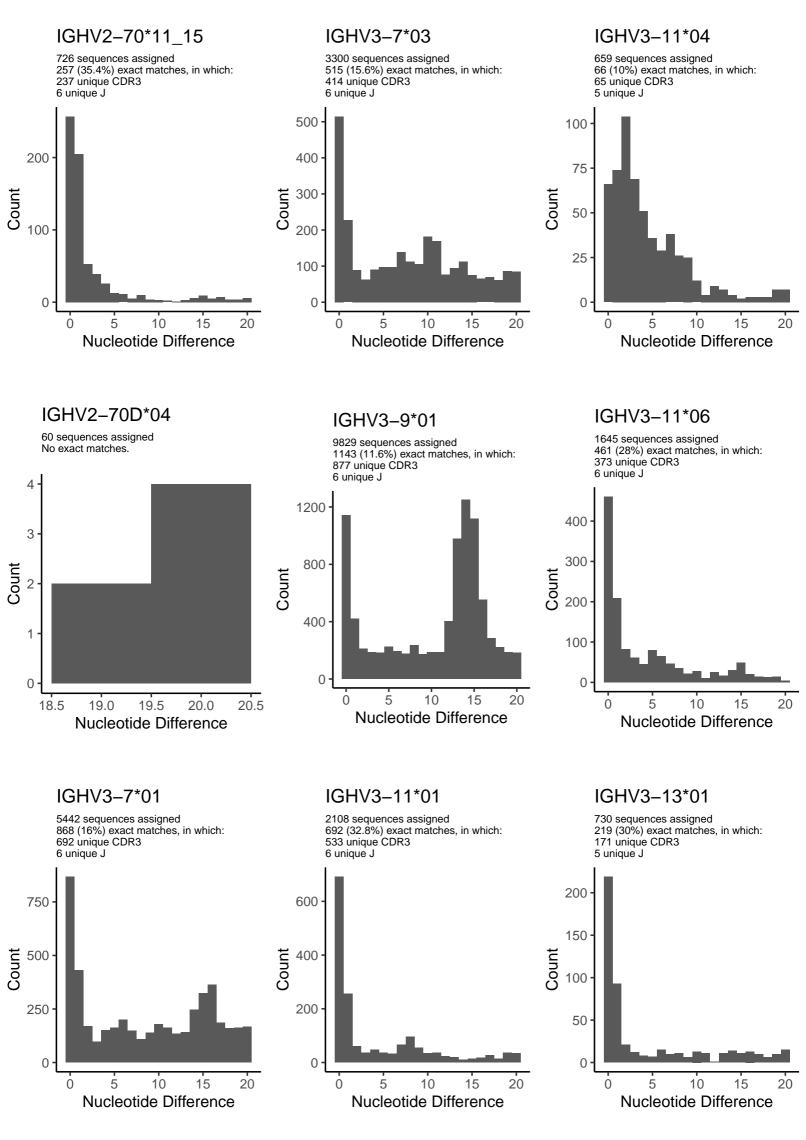


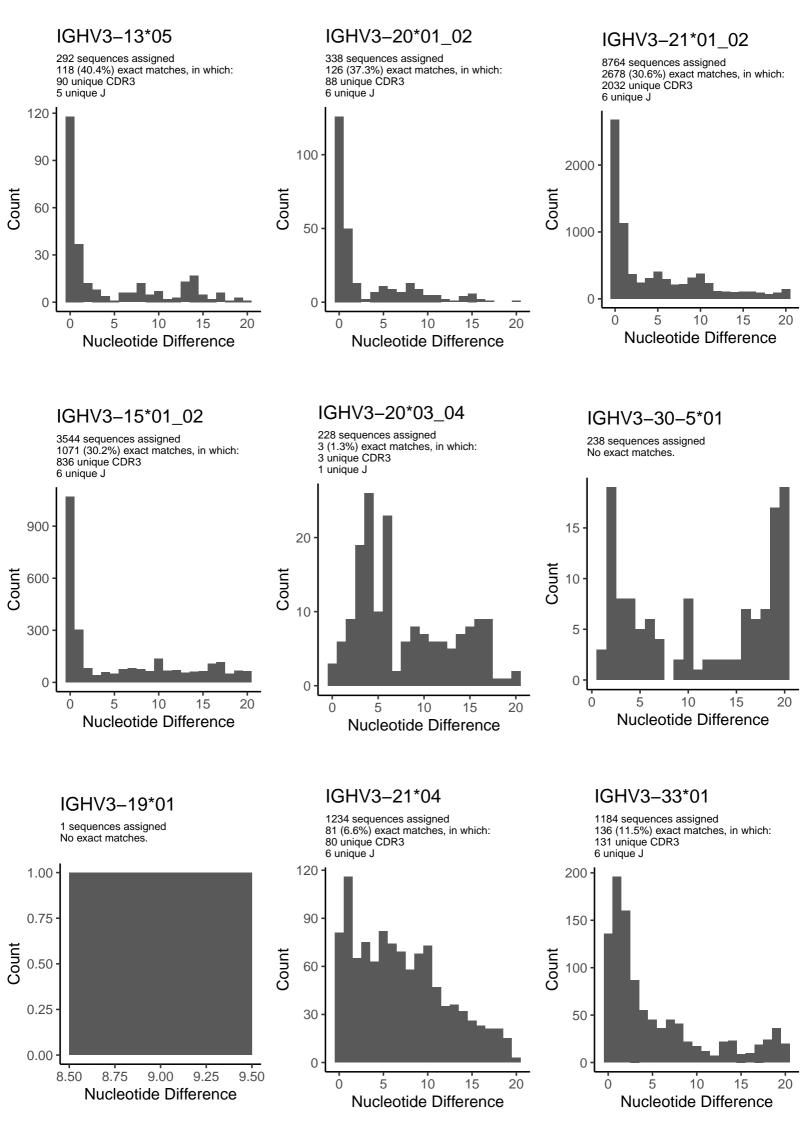
IGHV3-53*04_T288C- Final 3 nucleotides as a triplet

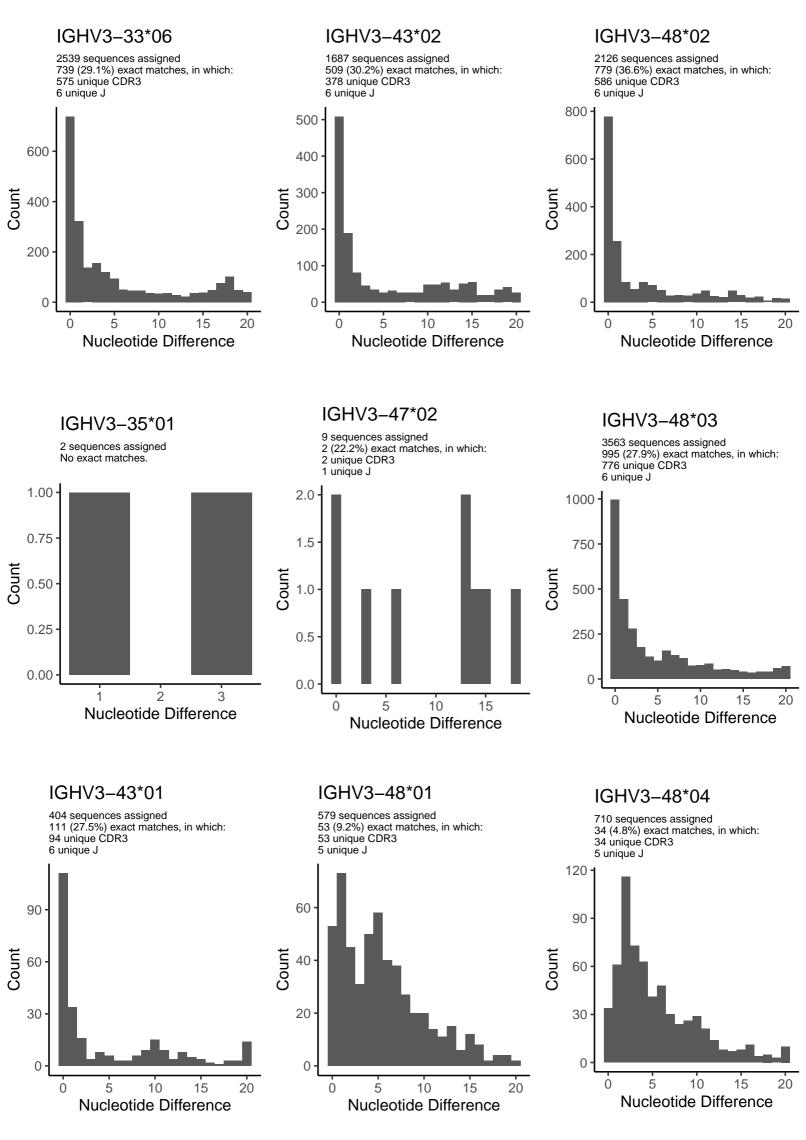


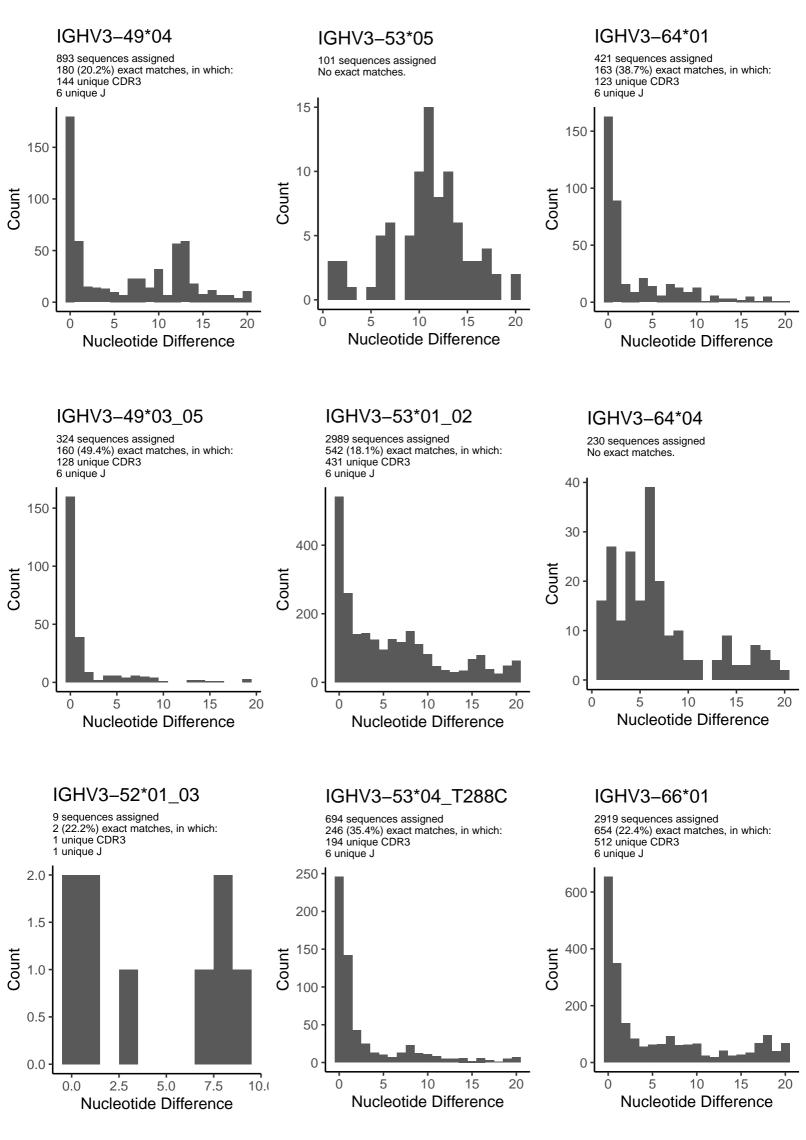


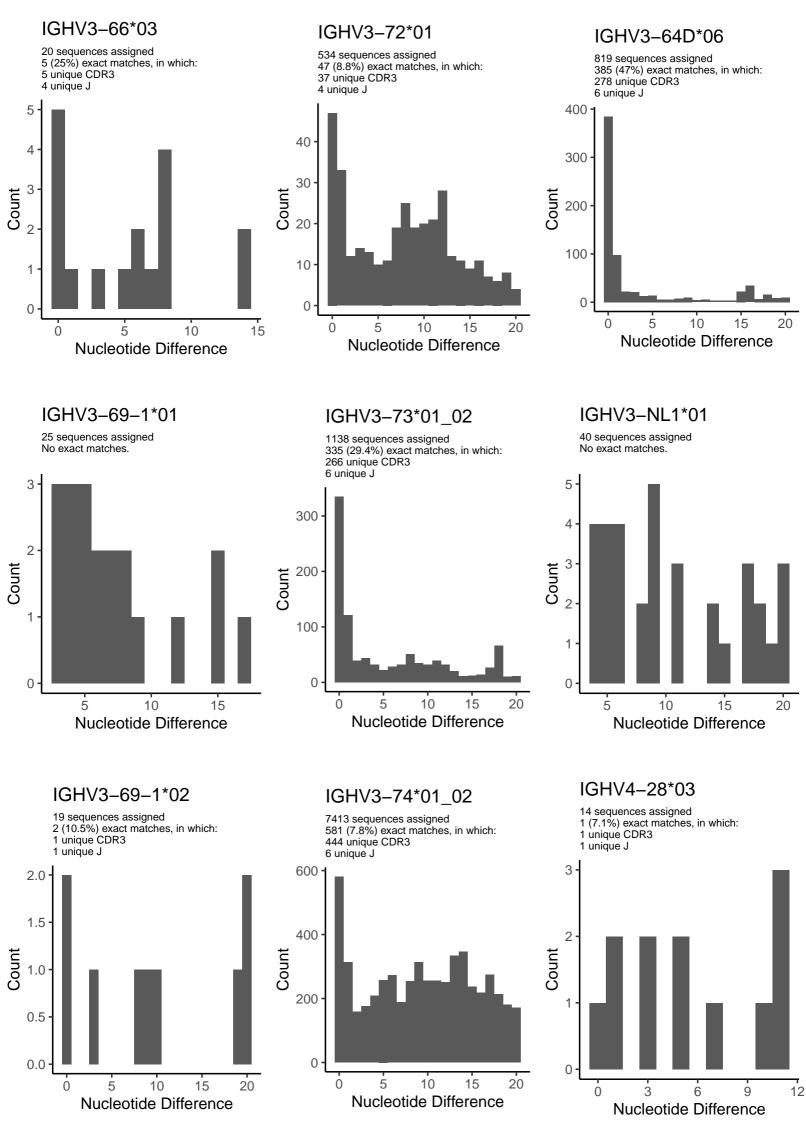


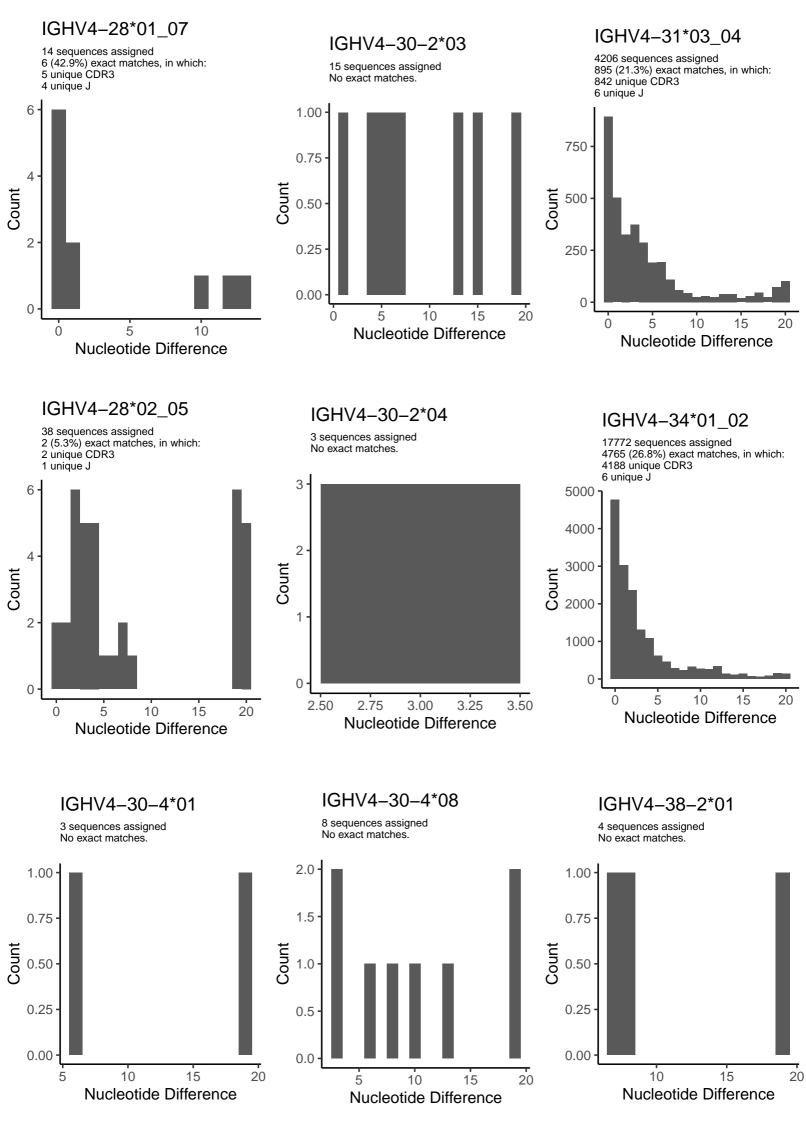


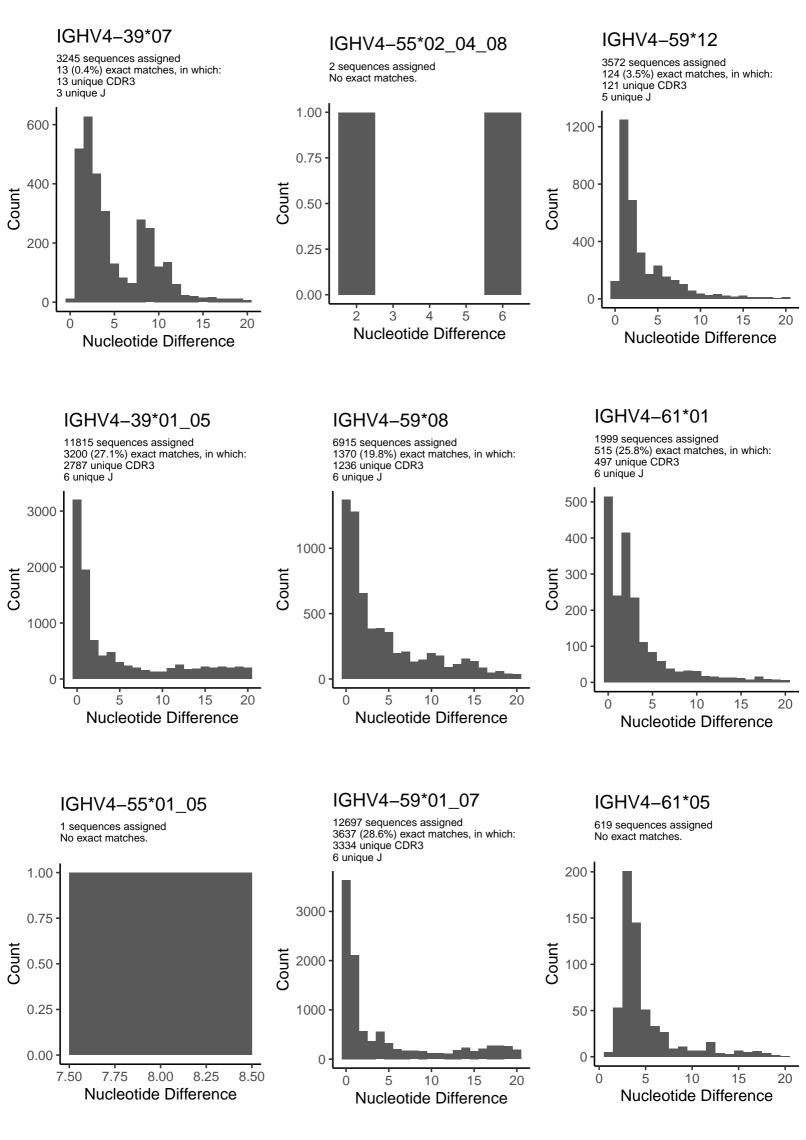












IGHV6-1*01_02 IGHV4-61*08 1412 sequences assigned 310 (22%) exact matches, in which: 286 unique CDR3 551 sequences assigned No exact matches. 6 unique J 100 300 75 200 Count Count 50 100 25 0 5 10 15 20 0 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** IGHV7-4-1*02 IGHV5-10-1*01_03 3402 sequences assigned 1066 (31.3%) exact matches, in which: 3583 sequences assigned 1507 (42.1%) exact matches, in which: 1115 unique CDR3 962 unique CDR3 6 unique J 6 unique J 1500 900 1000 Count Count 600 500 300 0 0 5 10 10 15 20 0 **Nucleotide Difference Nucleotide Difference** IGHV7-81*01 IGHV5-51*01_03 6 sequences assigned 13299 sequences assigned 4975 (37.4%) exact matches, in which: 2 (33.3%) exact matches, in which: 2 unique CDR3 3258 unique CDR3 2 unique J 6 unique J 2.0 5000 4000 1.5 3000 2000 3000 1.0 0.5 1000 0 0.0

0

10

Nucleotide Difference

15

20

2.5

0.0

5.0

Nucleotide Difference



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.

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

Warning: IGHV4-31*02, IGHV4-31*03_04 have identical germline sequences.

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

Novel sequence(s) IGHV1-69*04_09_G112A 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.

Novel sequence(s) IGHV1-69*08_C191T IGHV3-30*03_T288C IGHV3-30-3*02_G75C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4-59*02_G88A 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.