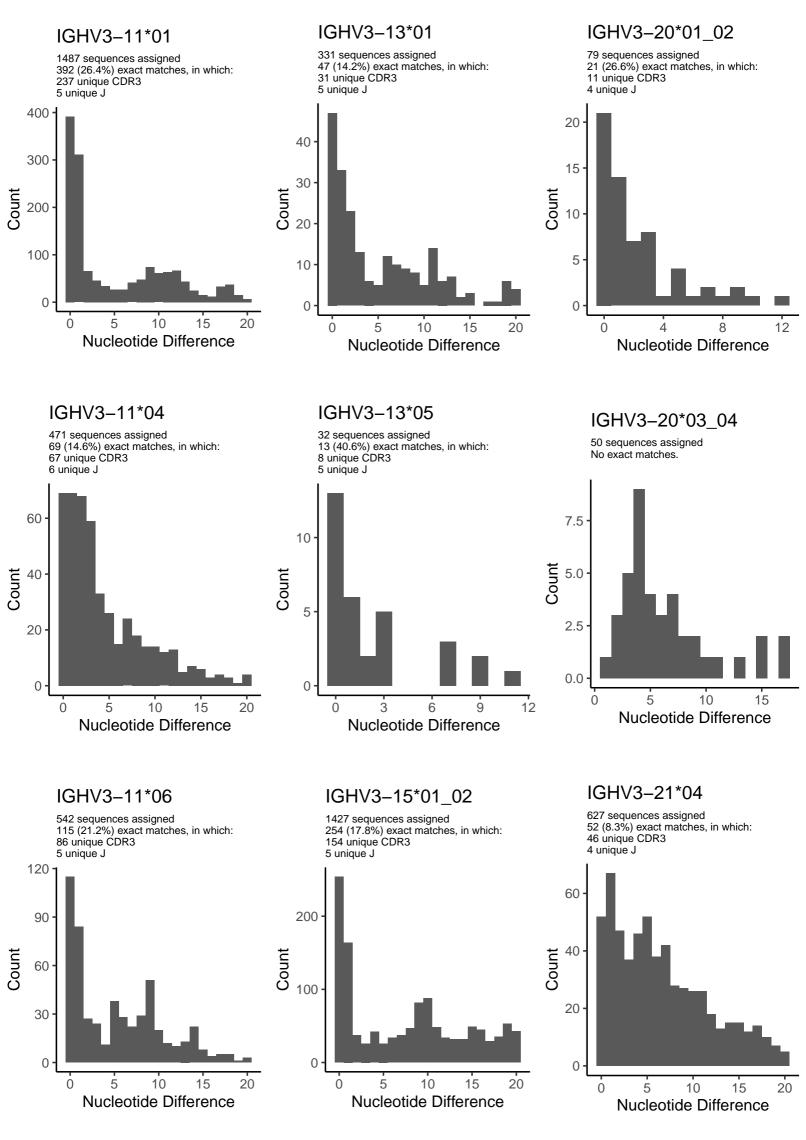
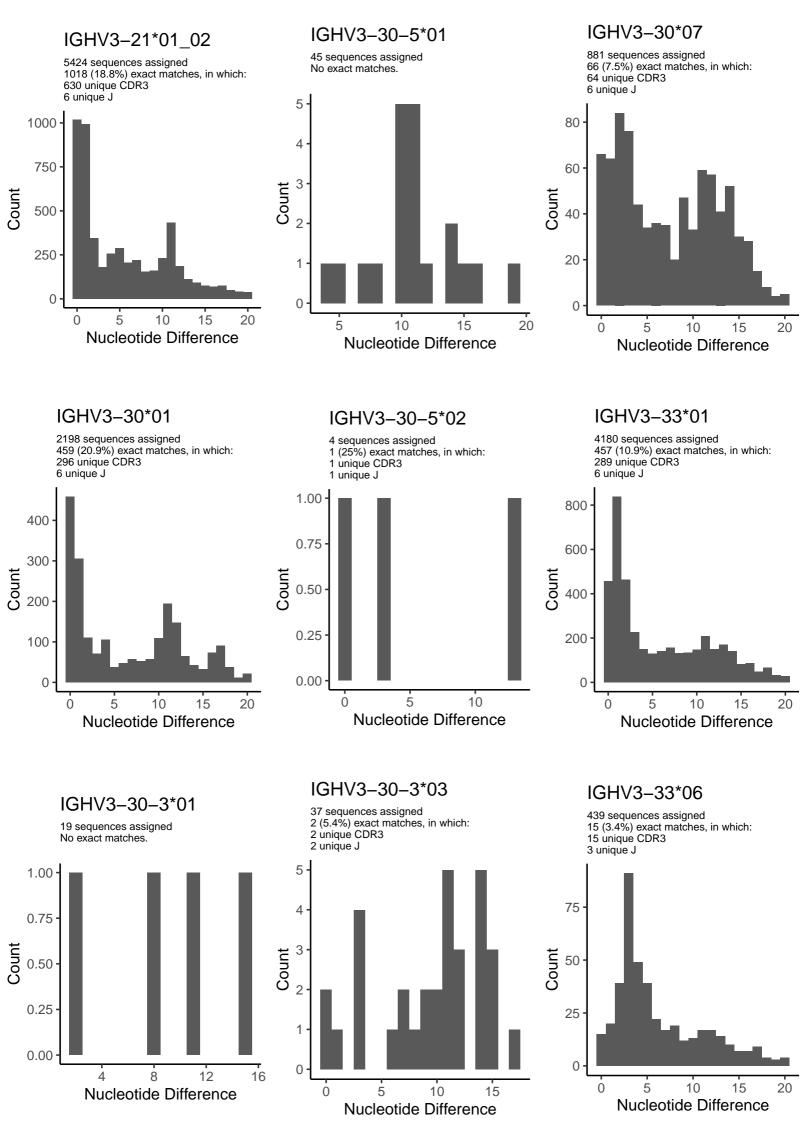
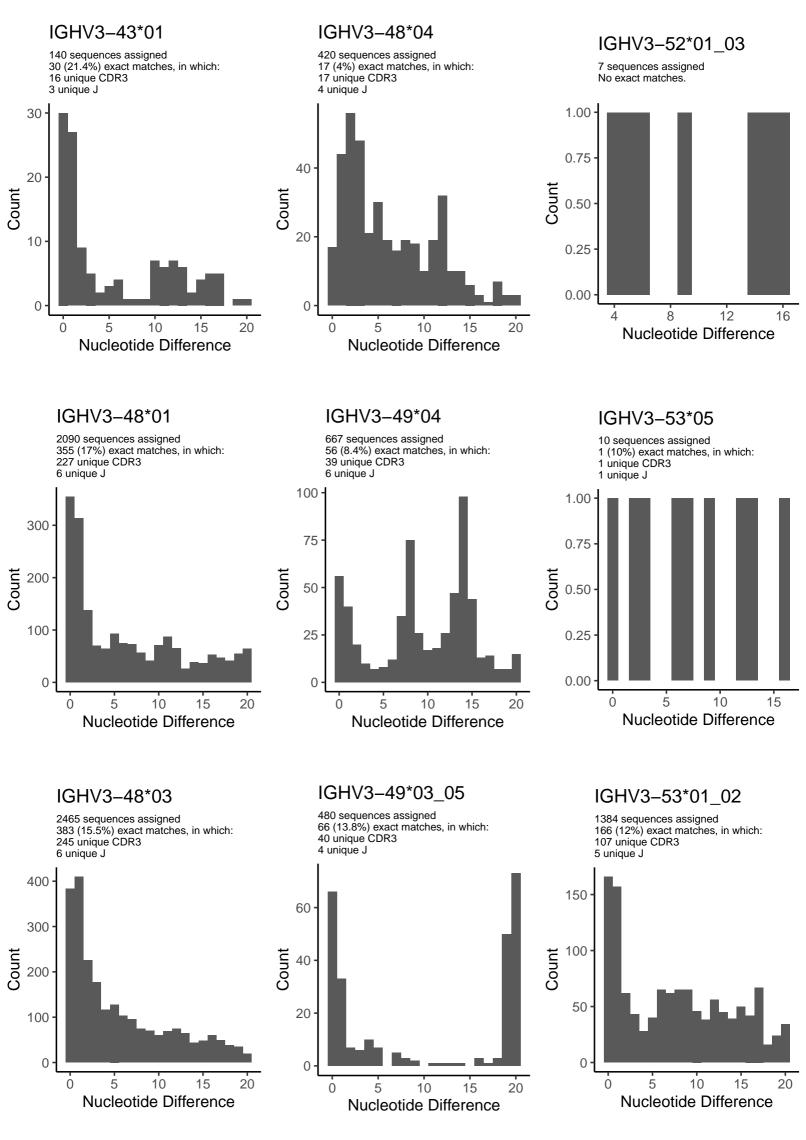
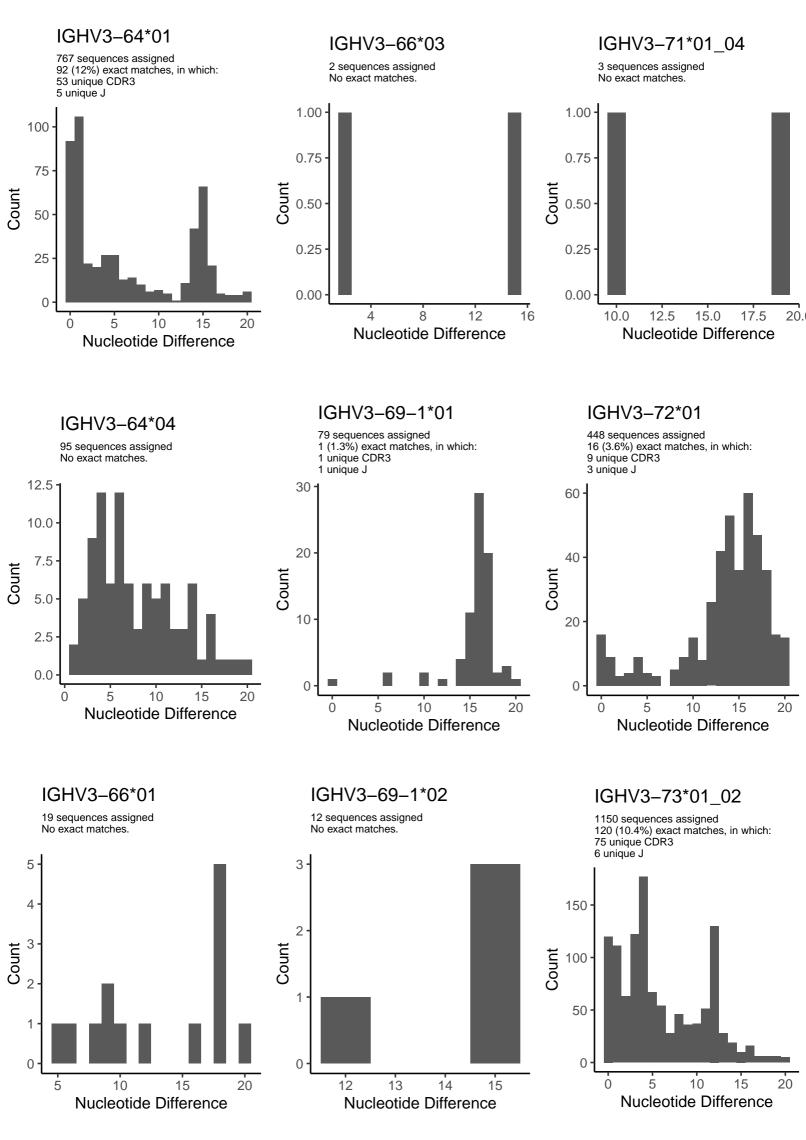


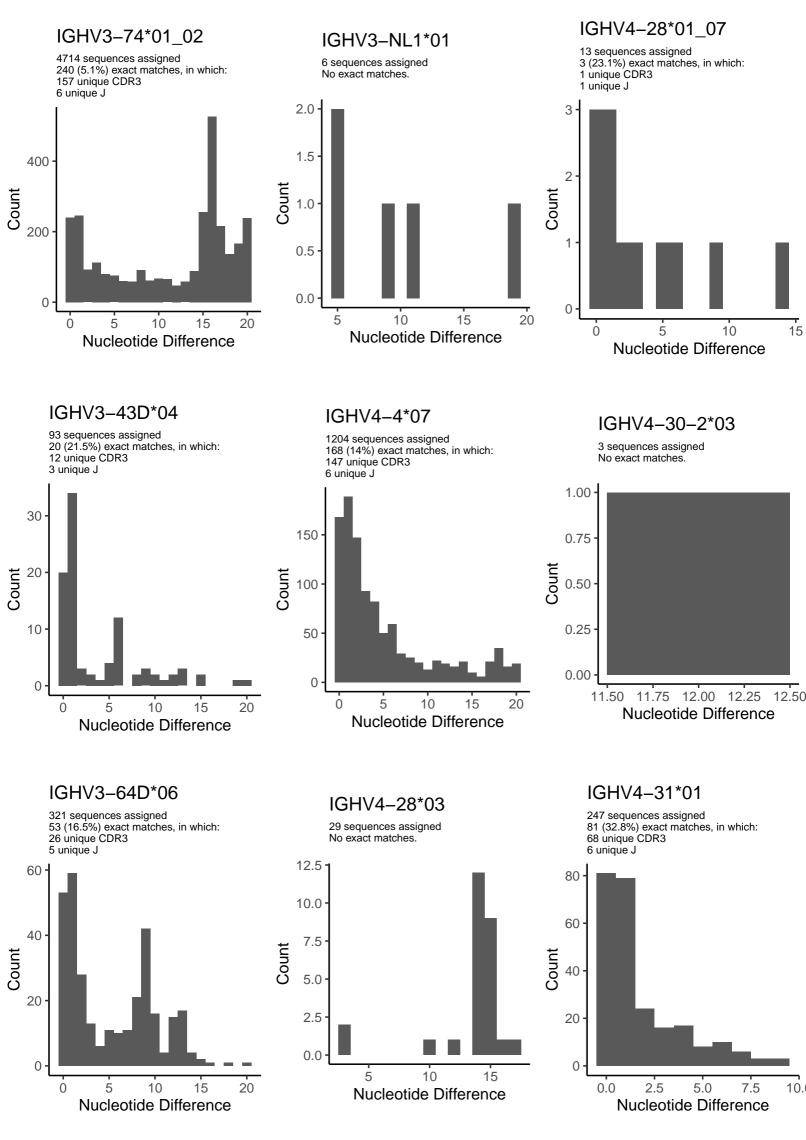
IGHV1-58*01_03 IGHV2-5*02 IGHV3-7*01 220 sequences assigned 67 (30.5%) exact matches, in which: 165 sequences assigned 17 (10.3%) exact matches, in which: 6095 sequences assigned 521 (8.5%) exact matches, in which: 53 unique CDR3 12 unique CDR3 351 unique CDR3 4 unique J 5 unique J 6 unique J 80 30 500 400 60 20 Count 300 Count 40 200 10 20 100 0 0 0 20 5 10 15 10 0 10 0 15 5 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-26*01 IGHV1-69*06_14 IGHV3-7*03 978 sequences assigned 280 (28.6%) exact matches, in which: 87 sequences assigned 2576 sequences assigned 35 (40.2%) exact matches, in which: 194 (7.5%) exact matches, in which: 30 unique CDR3 246 unique CDR3 135 unique CDR3 5 unique J 6 unique J 5 unique J 30 200 200 Count Count Count 20 100 100 10 0 0 0 20 15 10 20 0 5 10 0 5 15 10 0 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-5*01 IGHV2-70*01 IGHV3-9*01 306 sequences assigned 142 sequences assigned 2439 sequences assigned 60 (19.6%) exact matches, in which: 37 (26.1%) exact matches, in which: 311 (12.8%) exact matches, in which: 44 unique CDR3 33 unique CDR3 188 unique CDR3 4 unique J 5 unique J 6 unique J 300 60 30 200 Count Count 20 100 20 10 0 0 0 10 20 0 15 0 10 15 20 0 10 15 20 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

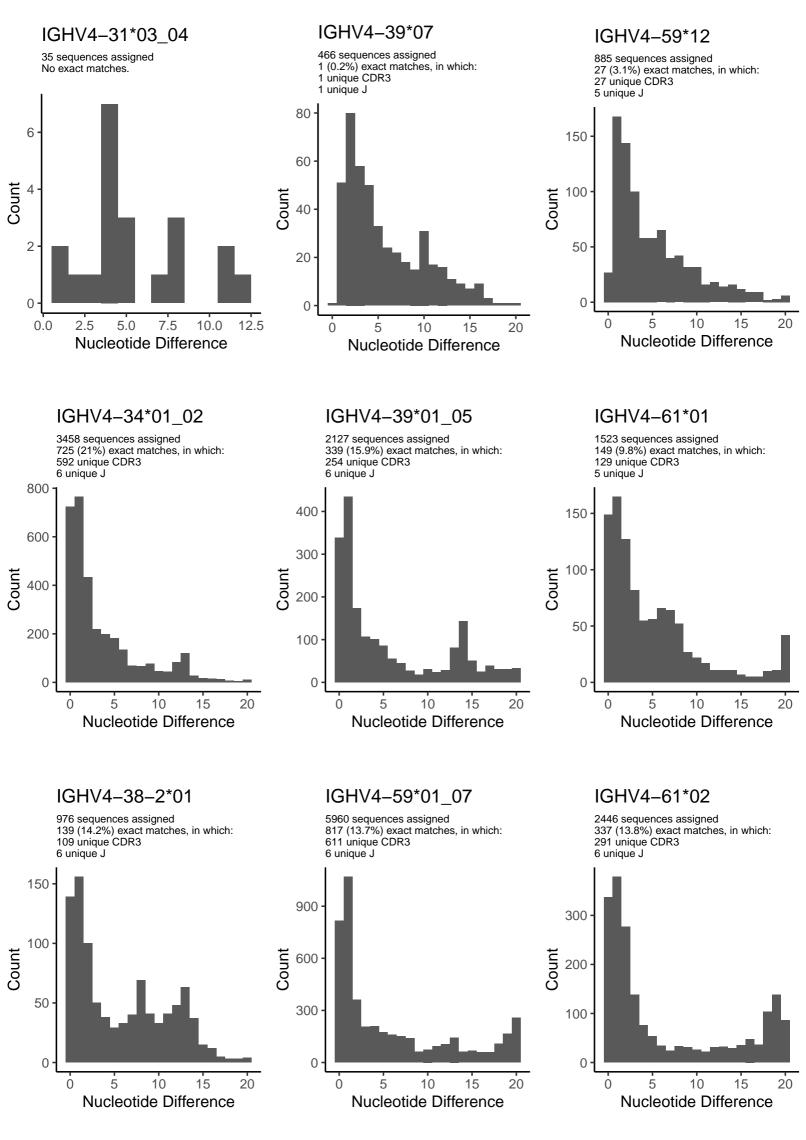










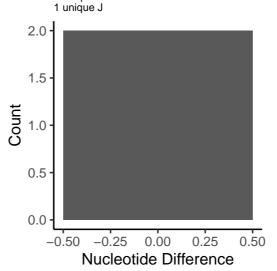


1527 sequences assigned 256 (16.8%) exact matches, in which: 170 unique CDR3 6 unique J

IGHV5-10-1*01_03

IGHV7-4-1*01

2 sequences assigned 2 (100%) exact matches, in which: 2 unique CDR3



IGHV5-51*01_03

5

0

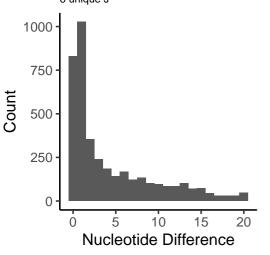
4313 sequences assigned 830 (19.2%) exact matches, in which: 484 unique CDR3 6 unique J

10

Nucleotide Difference

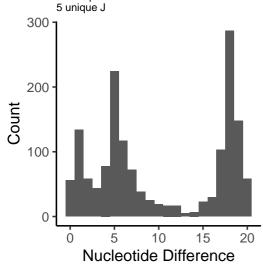
15

20



IGHV6-1*01_02

1652 sequences assigned 56 (3.4%) exact matches, in which: 45 unique CDR3





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.

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.