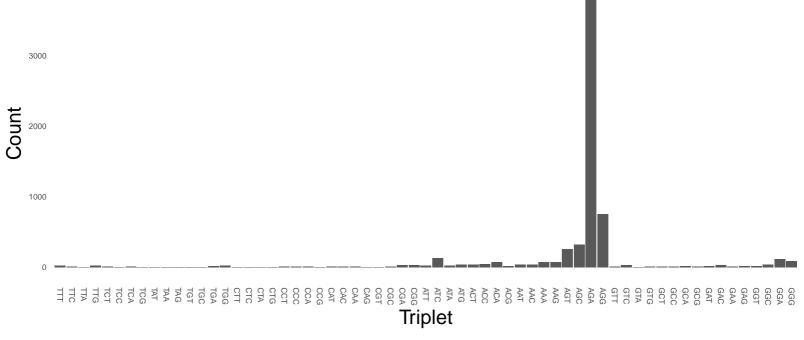
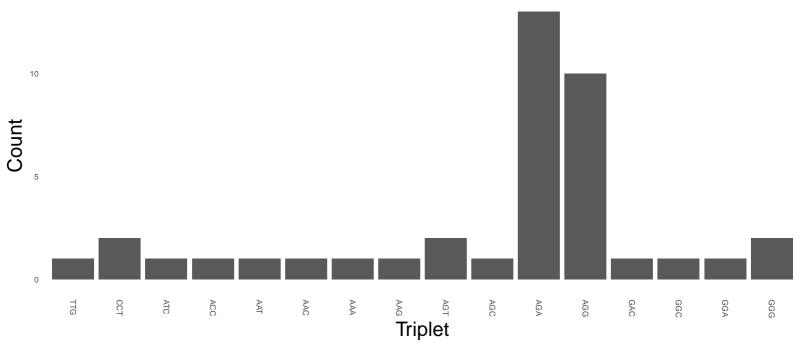
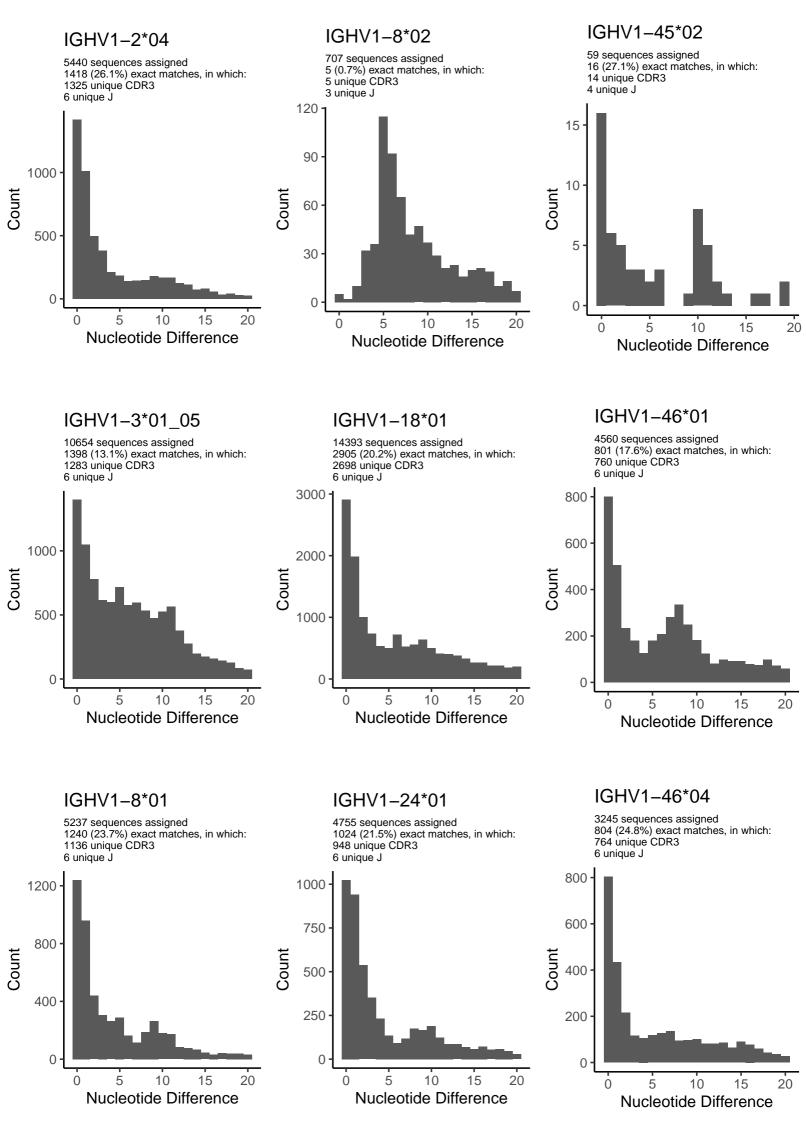


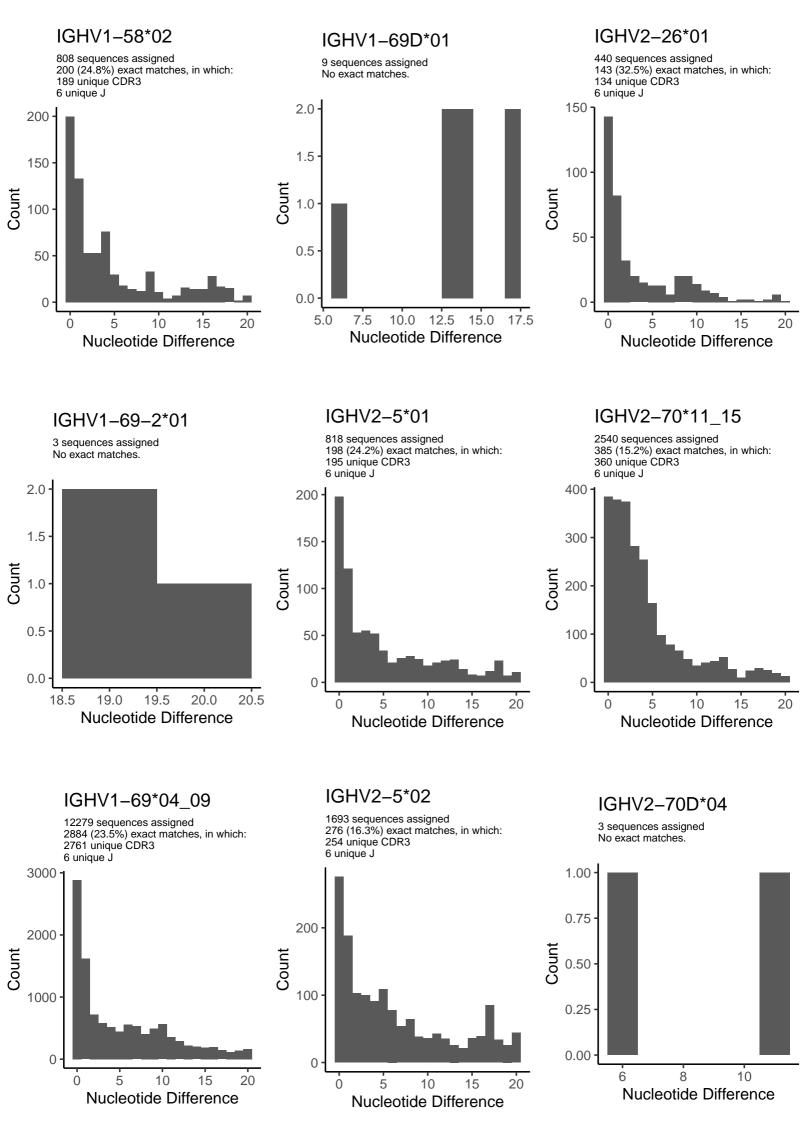
IGHV3-33*01_G75C- Final 3 nucleotides as a triplet



IGHV7-4-1*01_T63C- Final 3 nucleotides as a triplet

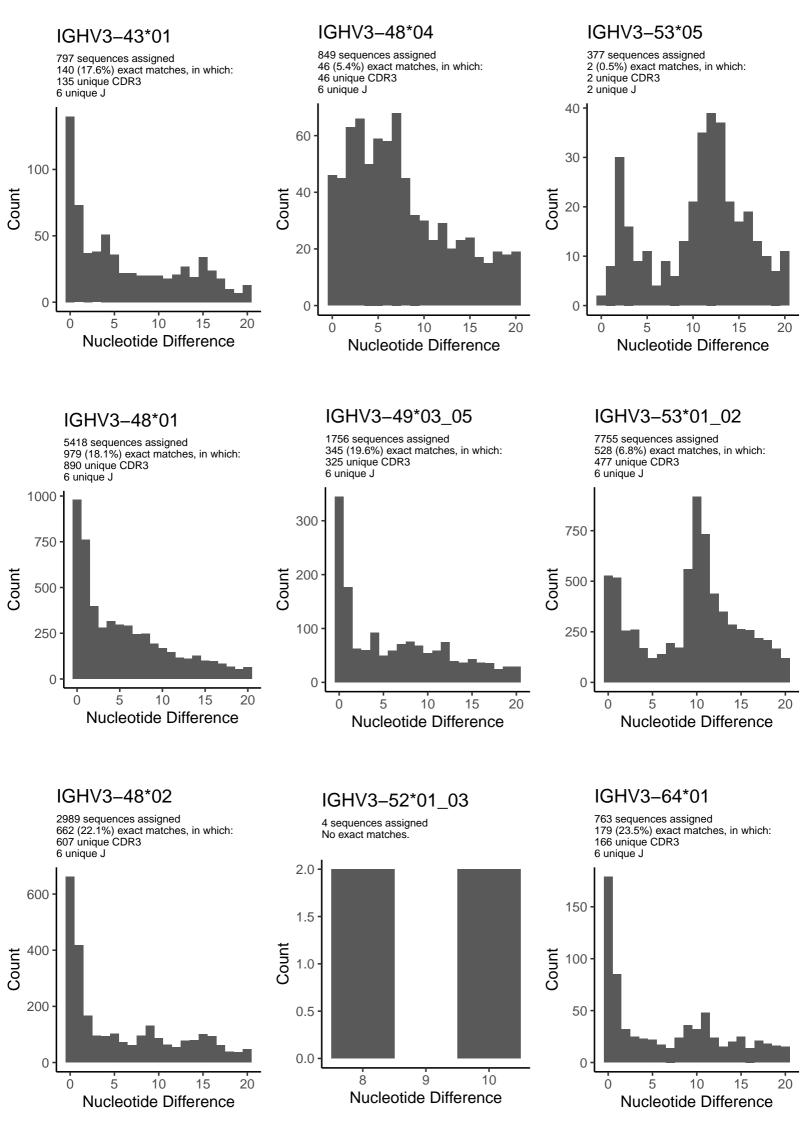


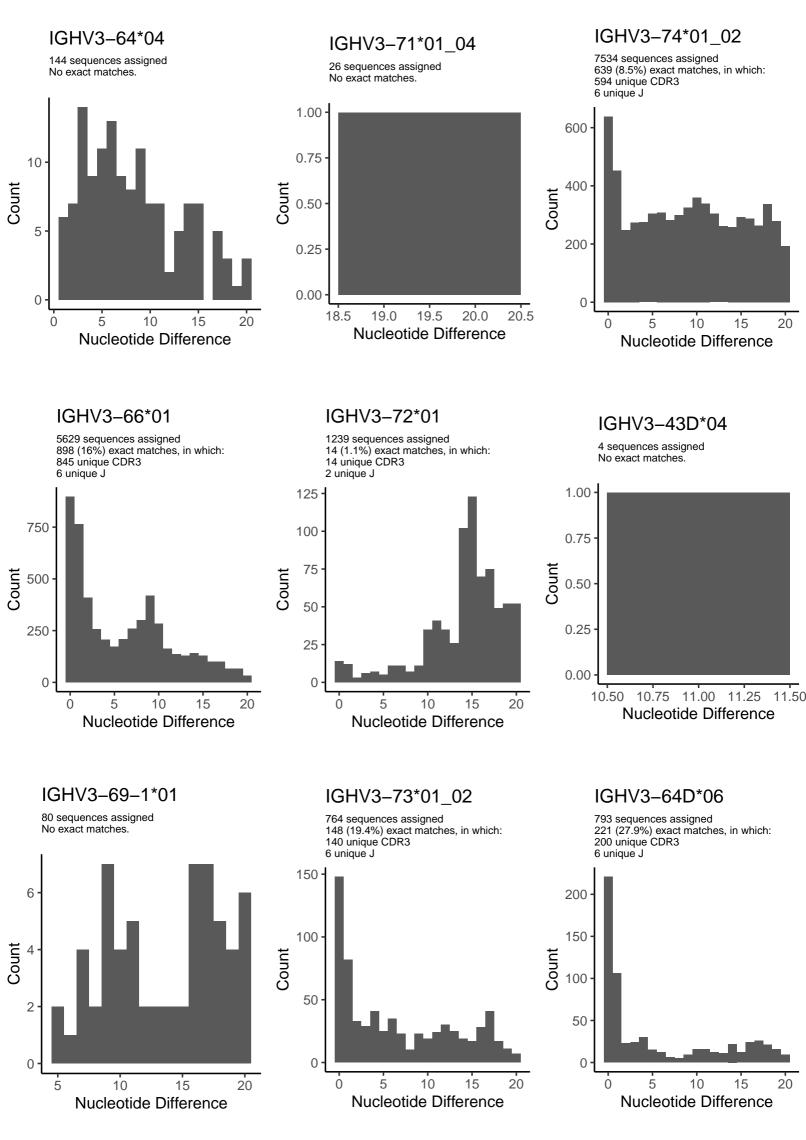


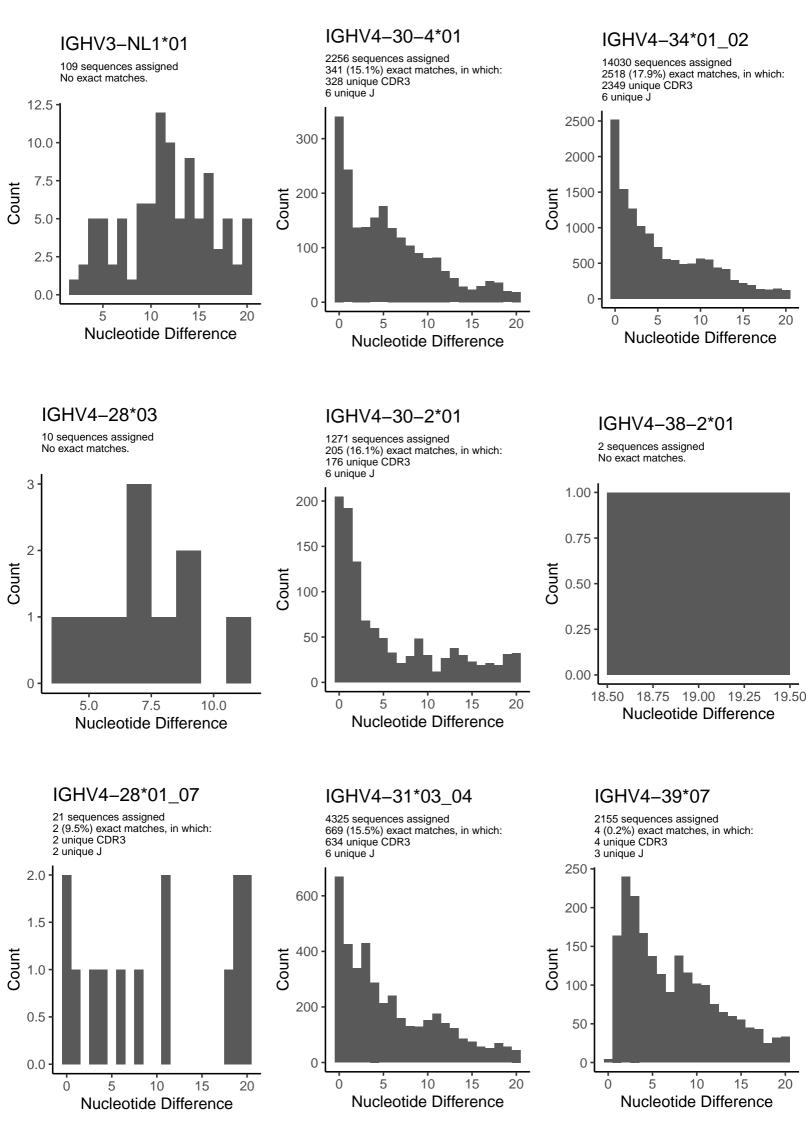


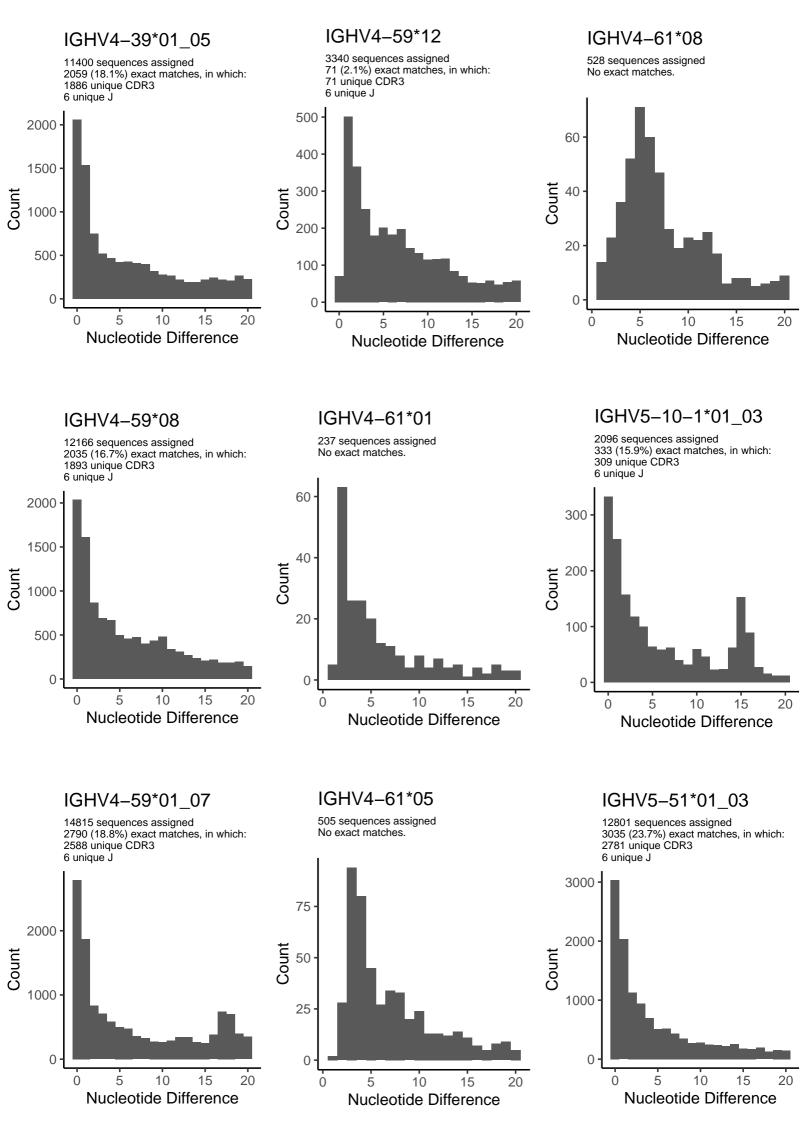
IGHV3-7*01 IGHV3-9*01 IGHV3-11*06 5103 sequences assigned 4518 sequences assigned 891 sequences assigned 661 (13%) exact matches, in which: 625 (13.8%) exact matches, in which: 134 (15%) exact matches, in which: 614 unique CDR3 586 unique CDR3 127 unique CDR3 6 unique J 6 unique J 6 unique J 600 600 100 400 400 Count Count 50 200 200 0 0 0 15 5 10 15 20 5 10 20 5 10 15 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-7*03 IGHV3-11*01 IGHV3-13*01 589 sequences assigned 843 sequences assigned 100 (11.9%) exact matches, in which: 2829 sequences assigned 15 (2.5%) exact matches, in which: 548 (19.4%) exact matches, in which: 15 unique CDR3 519 unique CDR3 94 unique CDR3 4 unique J 6 unique J 5 unique J 100 40 75 400 30 Count Count 50 20 200 25 10 0 0 0 20 10 15 10 20 0 5 0 5 15 10 15 20 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11*04 IGHV3-7*04 IGHV3-15*07 707 sequences assigned 2119 sequences assigned 1814 sequences assigned 63 (8.9%) exact matches, in which: 299 (14.1%) exact matches, in which: 392 (21.6%) exact matches, in which: 63 unique CDR3 284 unique CDR3 376 unique CDR3 6 unique J 6 unique J 6 unique J 400 300 60 300 200 Count Count 40 200 100 20 100 0 0 0 5 10 15 20 10 15 20 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**

IGHV3-15*01_02 IGHV3-21*01_02 IGHV3-33*01 2728 sequences assigned 8800 sequences assigned 1557 (17.7%) exact matches, in which: 7657 sequences assigned 1839 (24%) exact matches, in which: 246 (9%) exact matches, in which: 241 unique CDR3 1455 unique CDR3 1751 unique CDR3 6 unique J 6 unique J 6 unique J 300 1500 1500 1000 Count Count 1000 500 100 500 0 0 0 0 10 15 20 10 5 10 15 20 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV3-20*01_02 IGHV3-33*05 IGHV3-30-3*01 170 sequences assigned 48 (28.2%) exact matches, in which: 227 sequences assigned 6522 sequences assigned 1339 (20.5%) exact matches, in which: 8 (3.5%) exact matches, in which: 47 unique CDR3 8 unique CDR3 1283 unique CDR3 5 unique J 3 unique J 6 unique J 50 15 40 1000 10 Count Count 20 500 5 10 0 0 0 0 10 20 10 20 0 15 20 0 5 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-20*03_04 IGHV3-30*03 IGHV3-33*01_G75C 365 sequences assigned 3239 sequences assigned 6505 sequences assigned 1302 (20%) exact matches, in which: 35 (9.6%) exact matches, in which: 820 (25.3%) exact matches, in which: 32 unique CDR3 761 unique CDR3 1251 unique CDR3 3 unique J 6 unique J 6 unique J 800 30 1000 600 Count Count 400 500 10 200 0 0 0 10 10 15 20 0 10 15 20 Nucleotide Difference **Nucleotide Difference Nucleotide Difference**



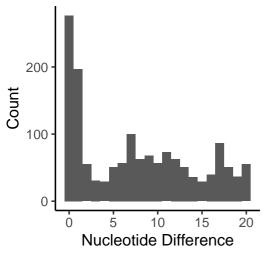






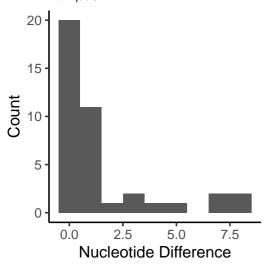
IGHV6-1*01_02

1662 sequences assigned 277 (16.7%) exact matches, in which: 262 unique CDR3 6 unique J



IGHV7-4-1*01_T63C

40 sequences assigned 20 (50%) exact matches, in which: 20 unique CDR3 4 unique J





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) 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.