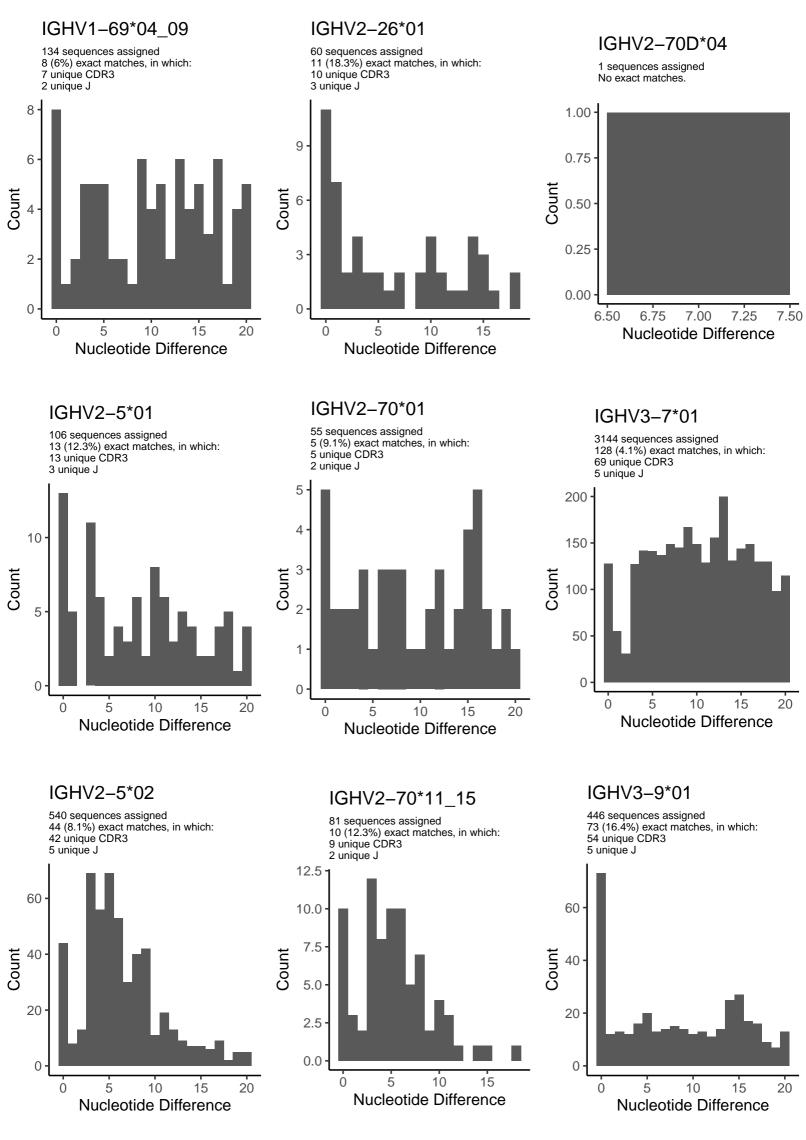
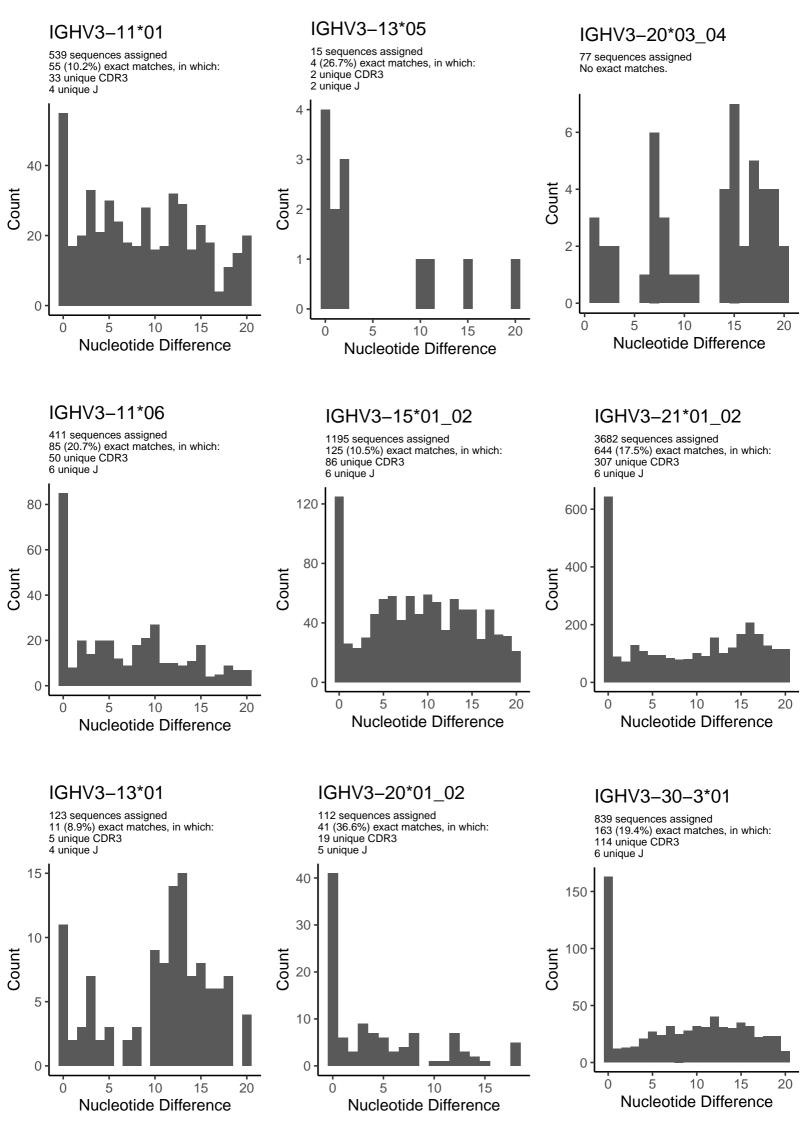
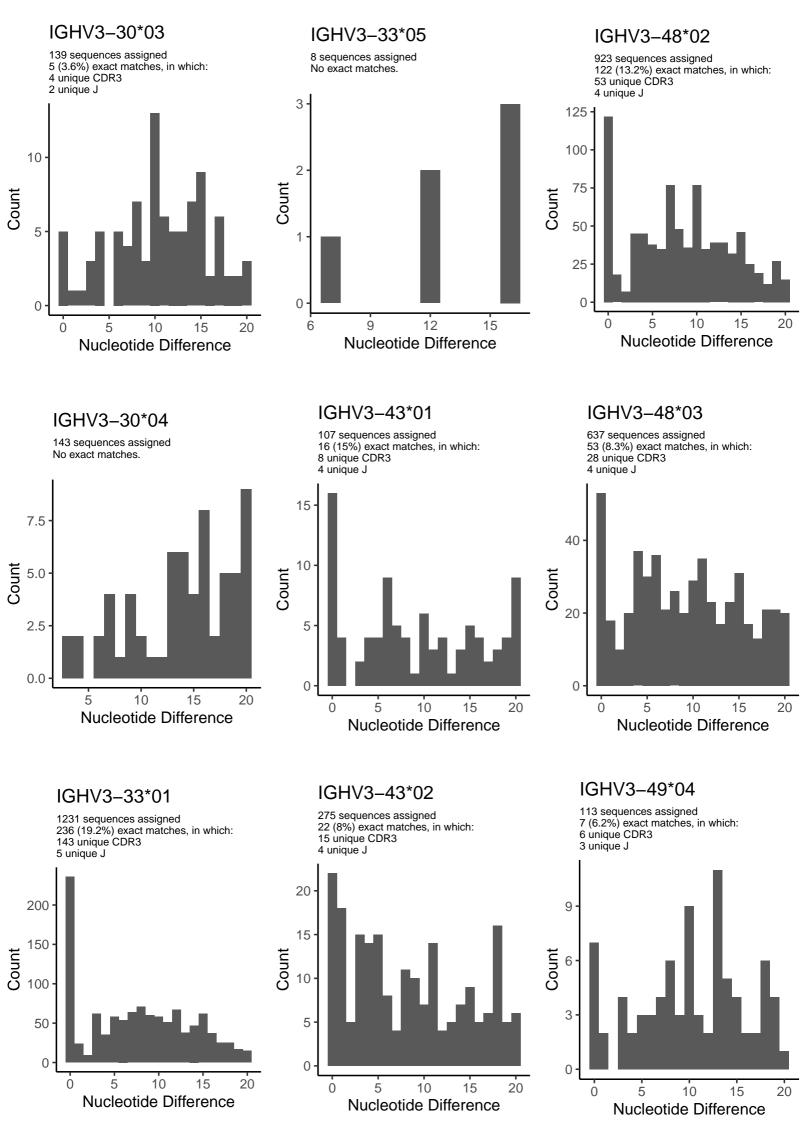
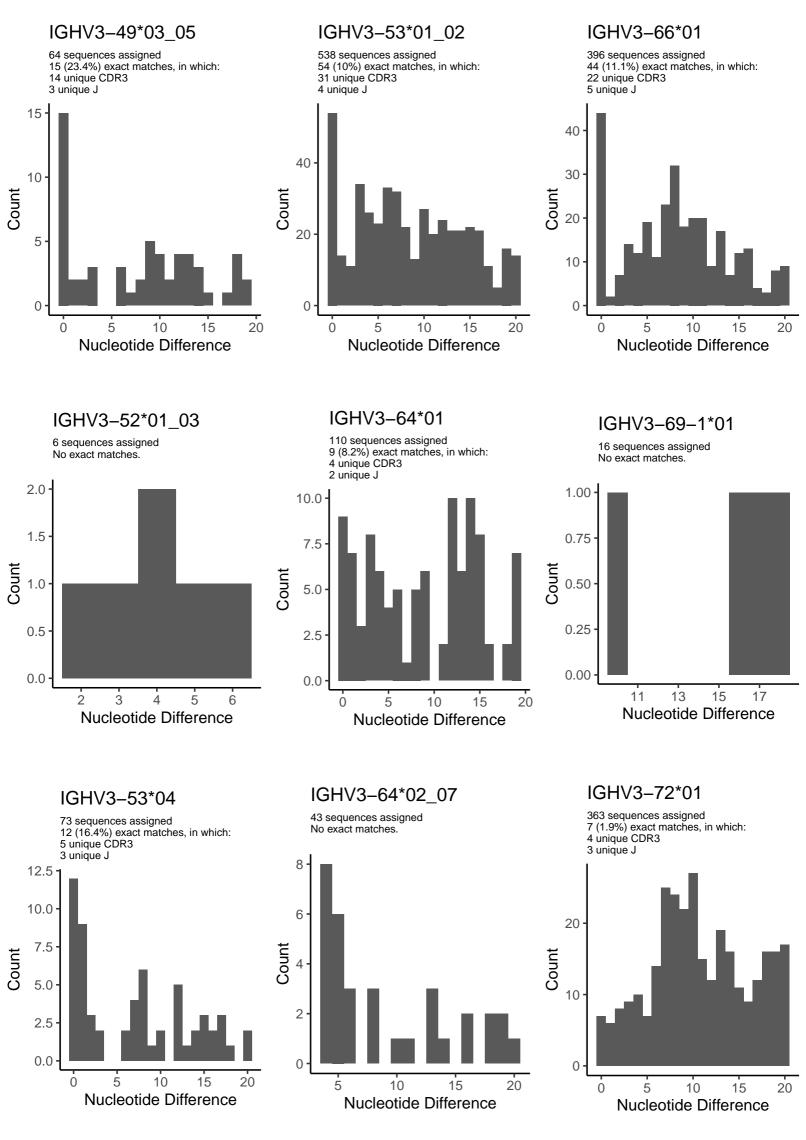
IGHV1-2*02 IGHV1-8*01 IGHV1-46*01 350 sequences assigned 48 (13.7%) exact matches, in which: 832 sequences assigned 419 sequences assigned 55 (6.6%) exact matches, in which: 55 unique CDR3 46 (11%) exact matches, in which: 47 unique CDR3 43 unique CDR3 6 unique J 4 unique J 5 unique J 50 40 40 40 30 30 Count Count 20 20 10 10 0 0 0 0 10 15 20 10 15 5 5 10 15 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV1-2*06 IGHV1-58*02 IGHV1-18*01 427 sequences assigned 1059 sequences assigned 122 (11.5%) exact matches, in which: 17 sequences assigned 47 (11%) exact matches, in which: 2 (11.8%) exact matches, in which: 44 unique CDR3 2 unique CDR3 112 unique CDR3 5 unique J 1 unique J 4 unique J 125 -2.0 40 100 30 75 Count Count 1.0 20 50 0.5 25 10 0 0.0 0 5 20 0 10 15 20 15 10 0 5 10 0 5 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-58*01_03 IGHV1-3*01_05 IGHV1-24*01 24 sequences assigned 3 (12.5%) exact matches, in which: 3 unique CDR3 151 sequences assigned 134 sequences assigned 23 (15.2%) exact matches, in which: 9 (6.7%) exact matches, in which: 23 unique CDR3 9 unique CDR3 2 unique J 5 unique J 5 unique J 10.0 20 3 7.5 15 5.0 2 10 2.5 1 5 0.0 0 0 20 5 10 20 0 10 15 15 20 0 5 10 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

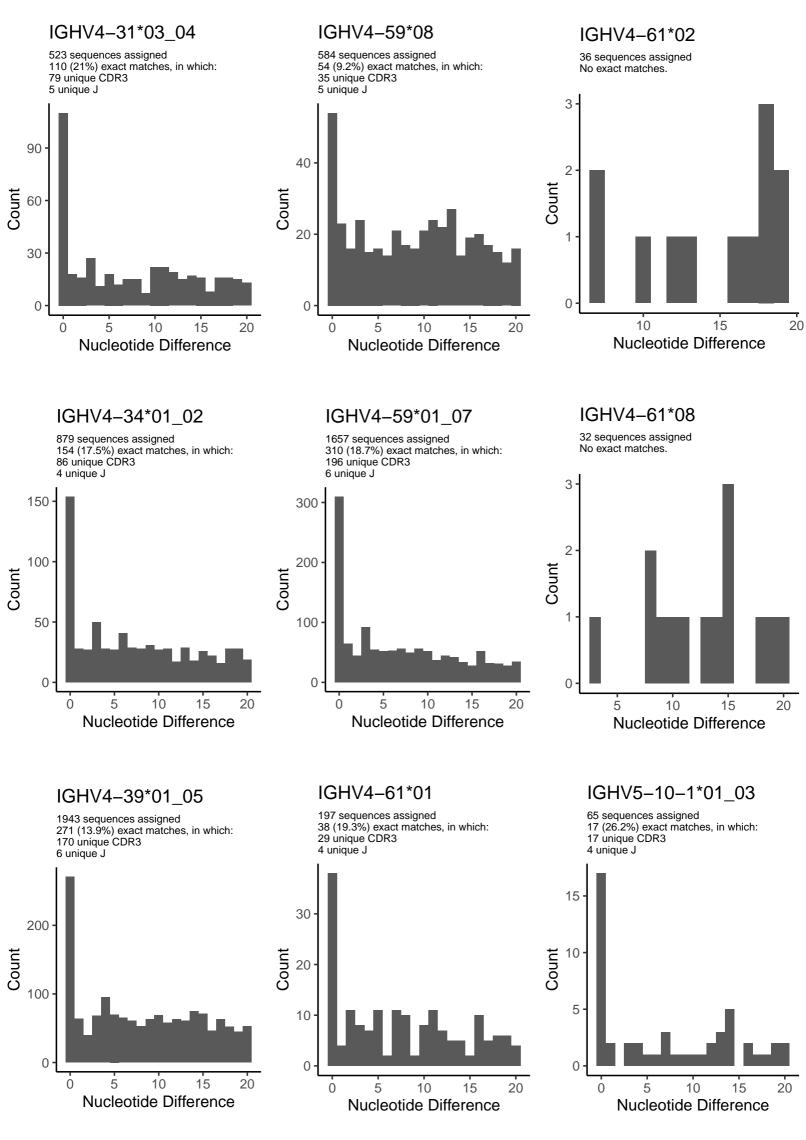






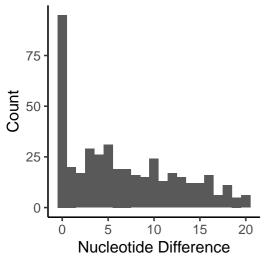


IGHV3-73*01_02 IGHV3-64D*06 IGHV4-28*01_07 510 sequences assigned 67 (13.1%) exact matches, in which: 619 sequences assigned 44 (7.1%) exact matches, in which: 5 sequences assigned 23 unique CDR3 31 unique CDR3 No exact matches. 4 unique J 6 unique J 1.00 40 60 0.75 30 Count 0.50 20 20 0.25 10 0.00 0 0 5.0 7.5 10.0 0 10 10 15 5 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV4-4*07 IGHV4-30-2*01 IGHV3-74*03 366 sequences assigned 23 (6.3%) exact matches, in which: 197 sequences assigned 29 (14.7%) exact matches, in which: 158 sequences assigned 16 unique CDR3 No exact matches. 17 unique CDR3 3 unique J 4 unique J 12.5 25 30 10.0 20 20 7.5 Count 15 Count Count 5.0 10 10 2.5 5 0.0 0 0 10 15 20 10 15 20 0 15 20 0 5 10 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-74*01_02 IGHV4-30-4*01 IGHV4-28*03 1114 sequences assigned 309 sequences assigned 5 sequences assigned 44 (3.9%) exact matches, in which: (40%) exact matches, in which: 34 (11%) exact matches, in which: 26 unique CDR3 1 unique CDR3 24 unique CDR3 5 unique J 4 unique J 1 unique J 2.0 30 1.5 20 Count Count 1.0 20 10 0.5 0 0.0 0 20 10 15 5 0 5 10 15 20 0 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference



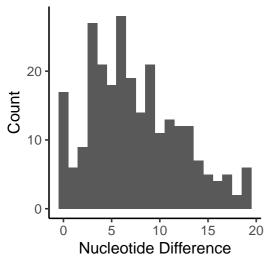
IGHV5-51*01_03

452 sequences assigned 95 (21%) exact matches, in which: 95 unique CDR3 6 unique J



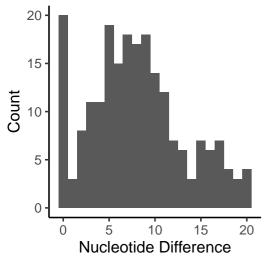
IGHV6-1*01_02

284 sequences assigned 17 (6%) exact matches, in which: 15 unique CDR3 4 unique J



IGHV7-4-1*02

221 sequences assigned 20 (9%) exact matches, in which: 20 unique CDR3 3 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) 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.

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.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s) IGHV4-39*02_C258G 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.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

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

Warning – no inferred sequences found.

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

Warning – no inferred sequences found.

Novel sequence(s) 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 are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

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

Warning – no inferred sequences found.

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.