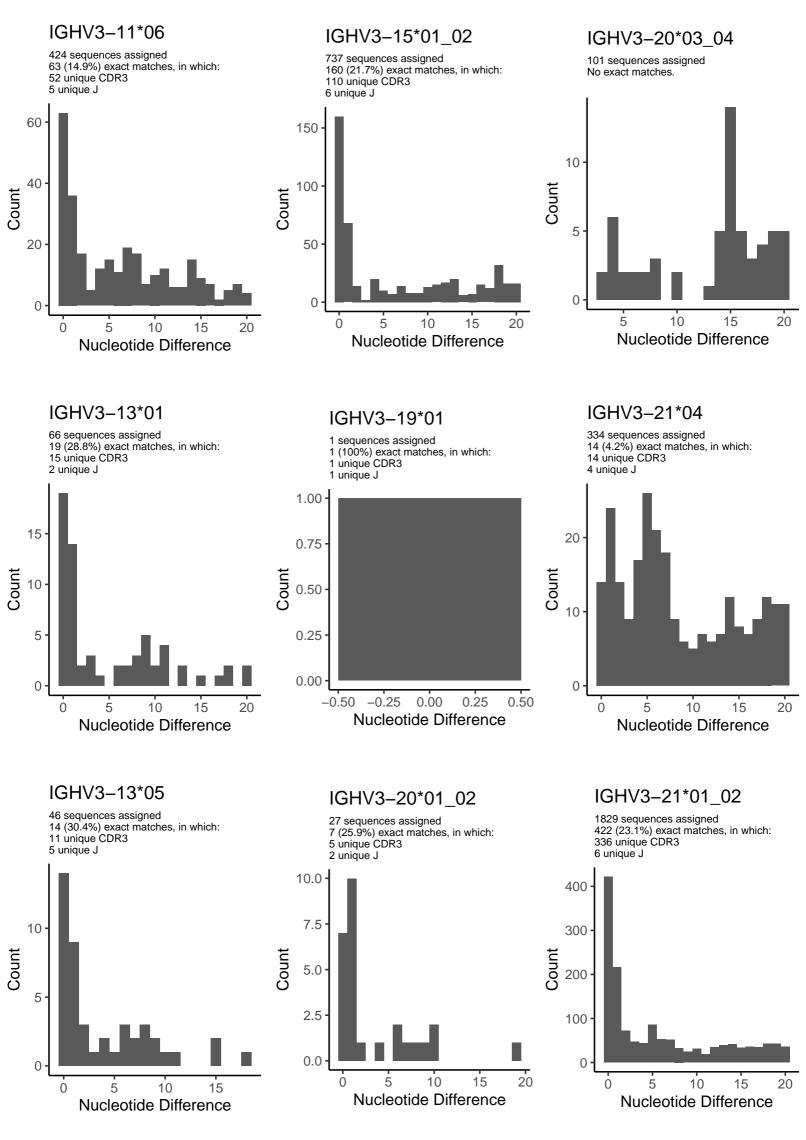
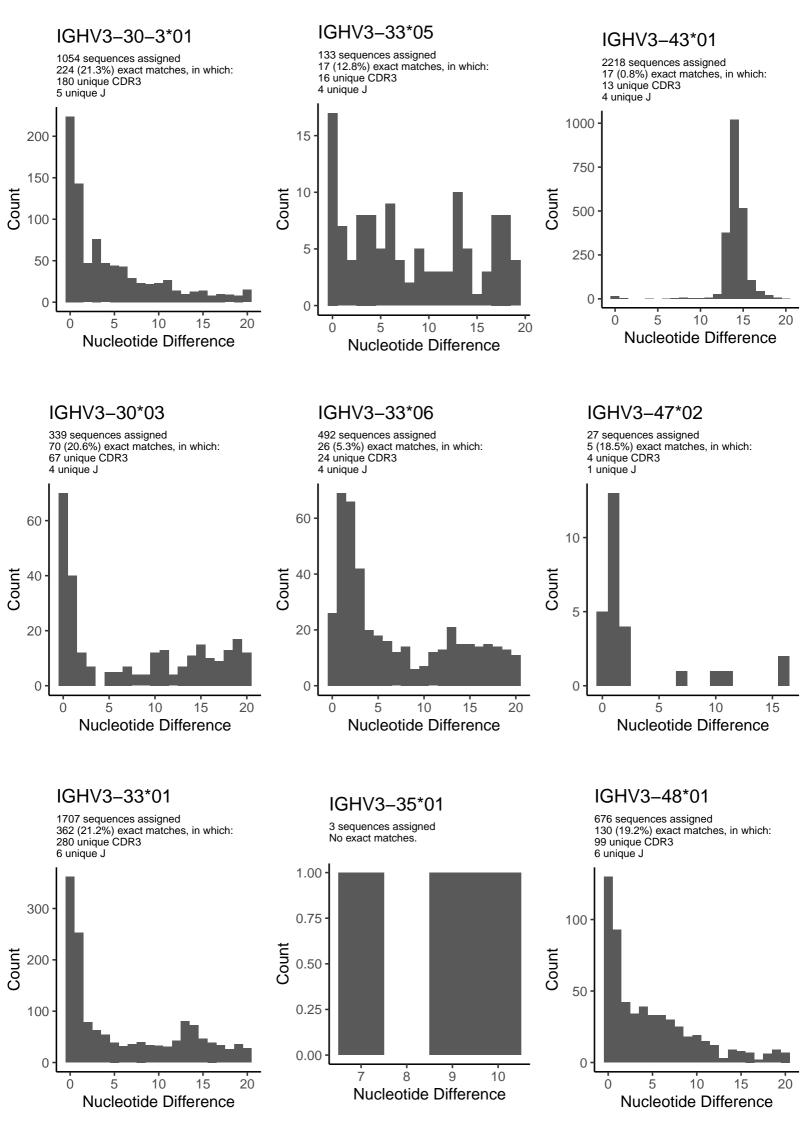
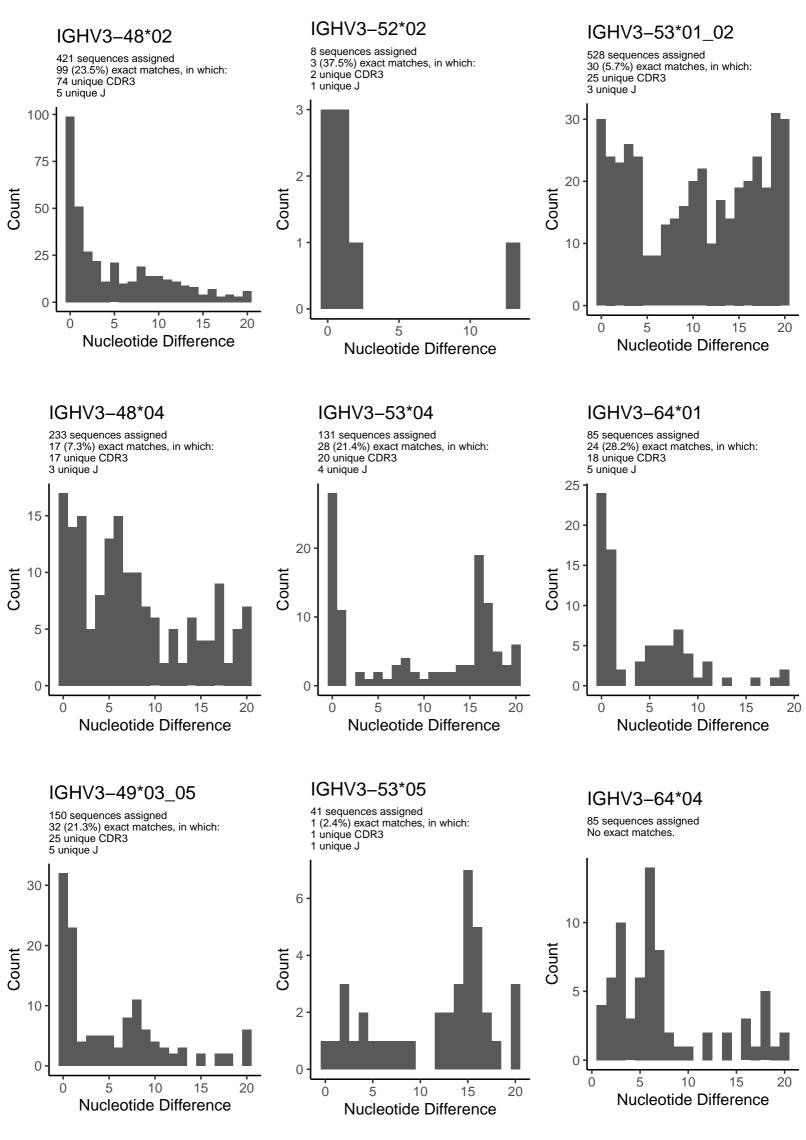
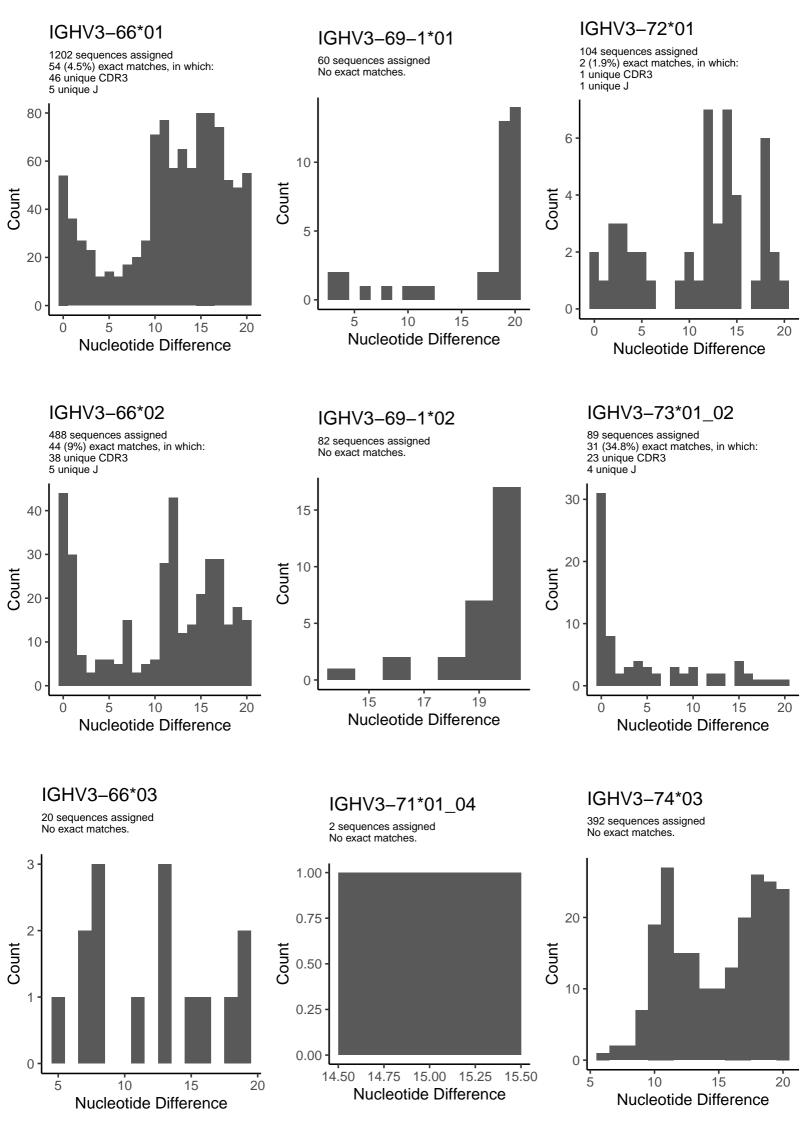


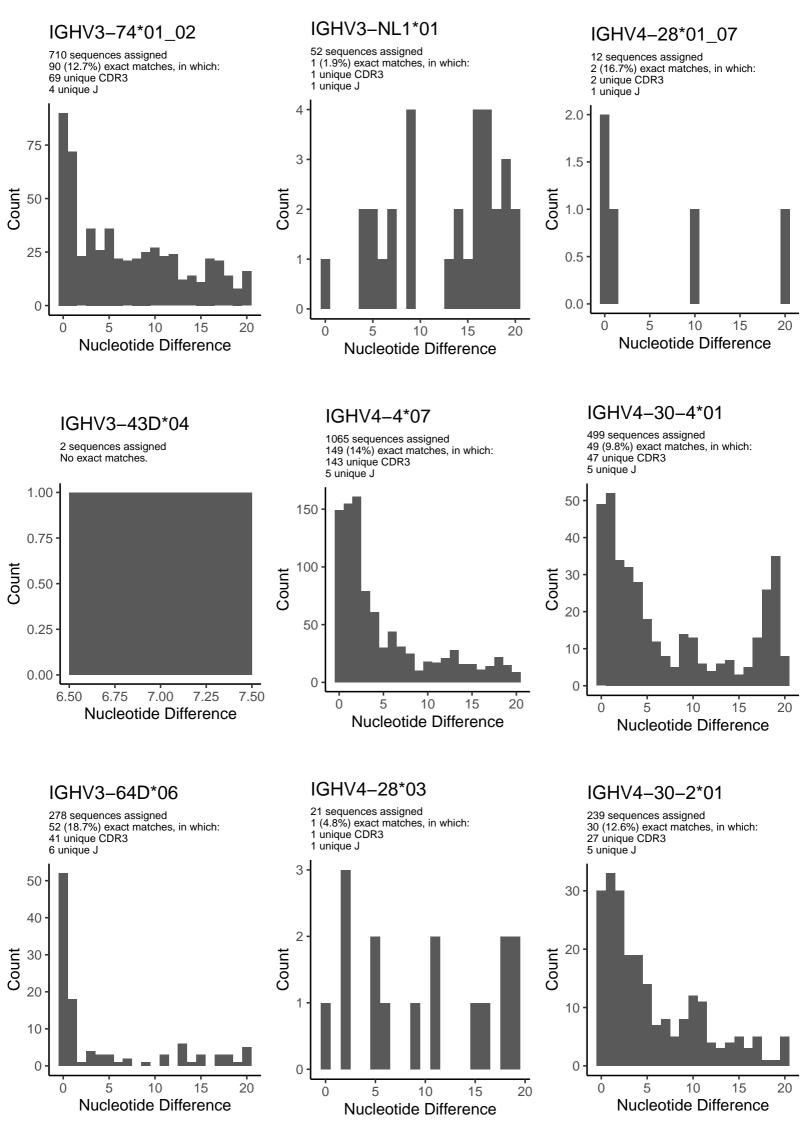
IGHV2-26*01 IGHV3-7*01 IGHV3-9*01 103 sequences assigned 40 (38.8%) exact matches, in which: 990 sequences assigned 1376 sequences assigned 161 (16.3%) exact matches, in which: 128 (9.3%) exact matches, in which: 37 unique CDR3 125 unique CDR3 94 unique CDR3 5 unique J 5 unique J 6 unique J 150 100 30 100 Count Count Count 50 50 10 0 0 0 20 5 10 15 20 5 10 15 0 0 10 20 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-70*12 IGHV3-11*01 IGHV3-7*03 551 sequences assigned 124 (22.5%) exact matches, in which: 8 sequences assigned 233 sequences assigned No exact matches. 9 (3.9%) exact matches, in which: 7 ùniqué CDR3 96 unique CDR3 3 unique J 5 unique J 3 12.5 120 10.0 80 Count 7.5 Count Count 5.0 40 2.5 0.0 0 20 5 10 15 0 10 15 20 2 0 6 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-70*11_15 IGHV3-7*04 IGHV3-11*04 89 sequences assigned 328 sequences assigned 176 sequences assigned 24 (27%) exact matches, in which: 67 (20.4%) exact matches, in which: 29 (16.5%) exact matches, in which: 20 unique CDR3 44 unique CDR3 29 unique CDR3 5 unique J 4 unique J 5 unique J 30 60 20 20 40 Count 10 10 20 5 0 0 0 0 10 20 0 5 10 15 20 0 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference

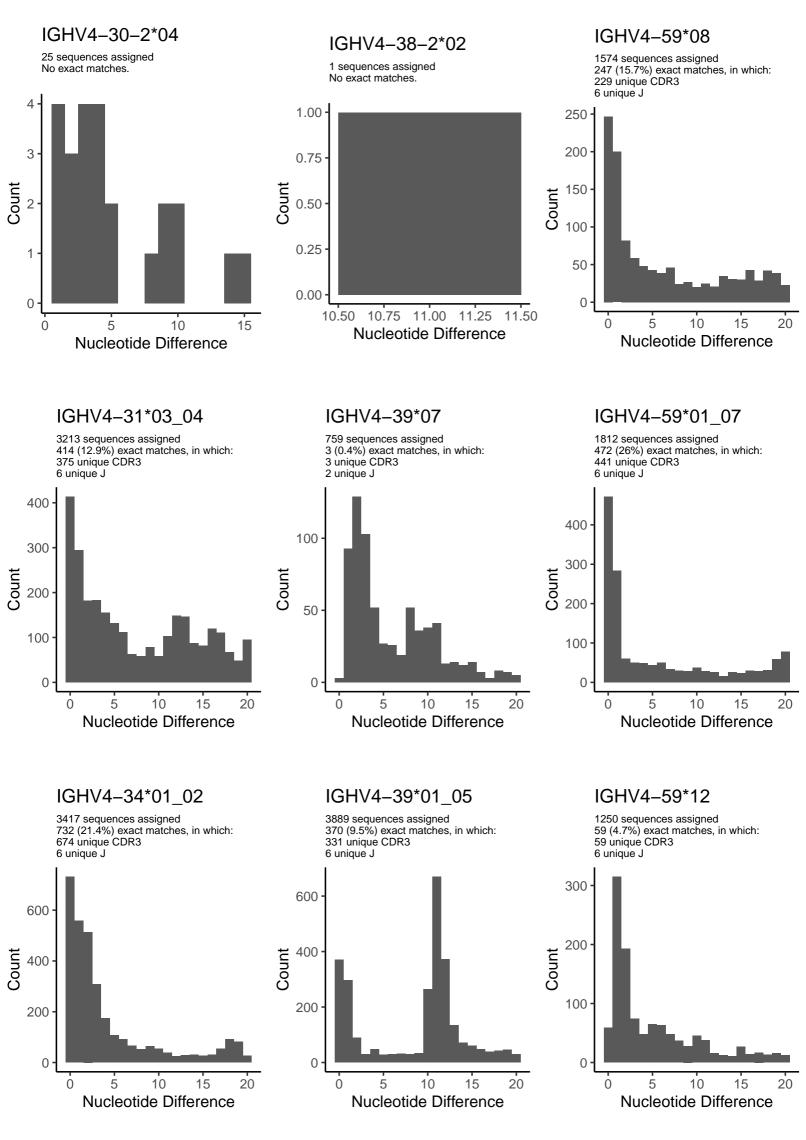












IGHV5-51*01_03 IGHV4-61*02 2565 sequences assigned 741 (28.9%) exact matches, in which: 675 unique CDR3 1910 sequences assigned 269 (14.1%) exact matches, in which: 243 unique CDR3 6 unique J 6 unique J 600 200 Count 400 100 200 0 0 10 0 5 10 15 20 0 5 15 20 **Nucleotide Difference Nucleotide Difference** IGHV6-1*01_02 IGHV4-61*08 392 sequences assigned 66 (16.8%) exact matches, in which: 61 unique CDR3 376 sequences assigned No exact matches. 5 unique J 80 40 60 30 40 20 20 10 0 0 5 20 10 15 0 0 5 10 15 20 Nucleotide Difference Nucleotide Difference IGHV7-4-1*01 IGHV5-10-1*01_03 31 sequences assigned 744 sequences assigned 211 (28.4%) exact matches, in which: 11 (35.5%) exact matches, in which: 11 unique CDR3 188 unique CDR3 2 unique J 6 unique J 200 10 150 Count 5 50 0 0 10 15 20 0.0 2.5 5.0 7.5

Nucleotide Difference

Nucleotide Difference



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.

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.