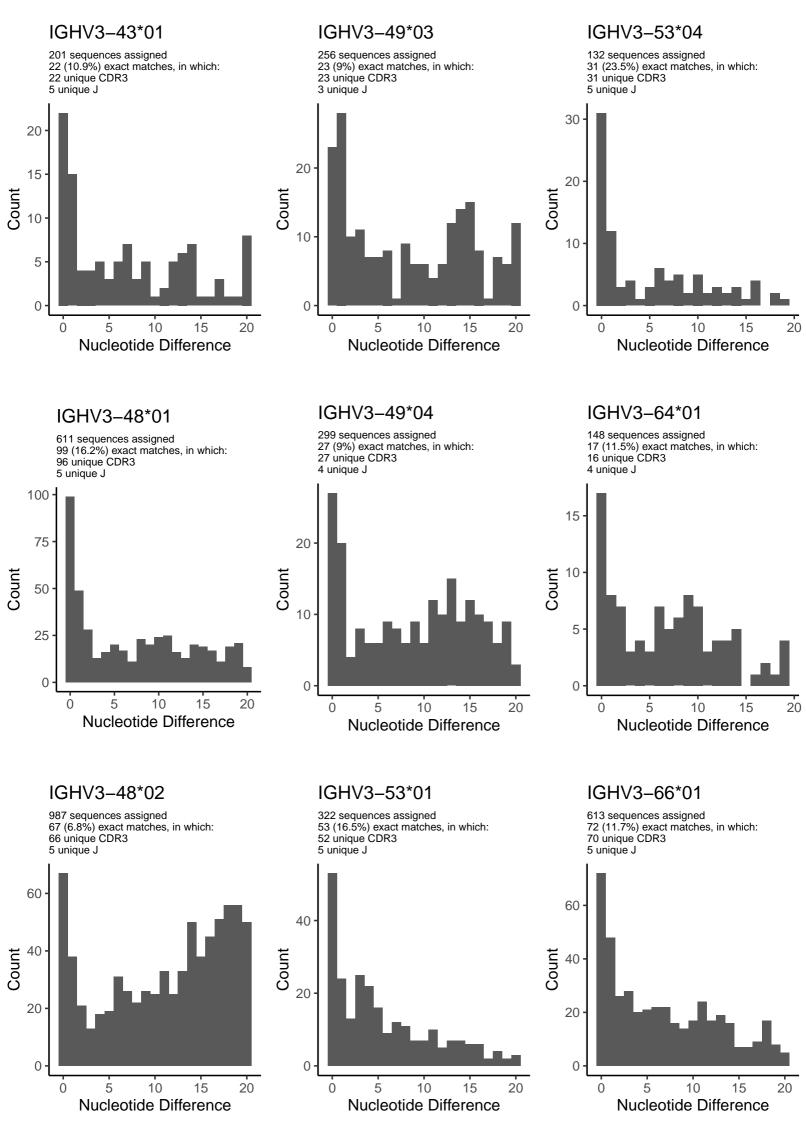
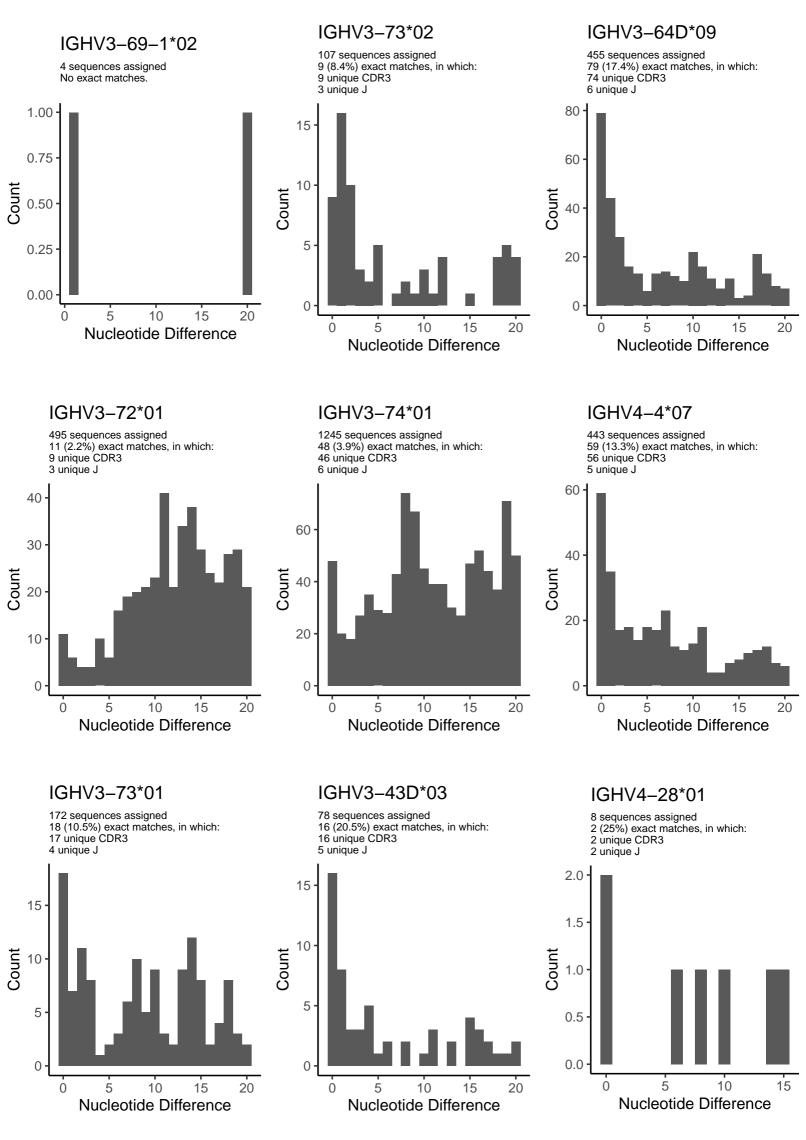
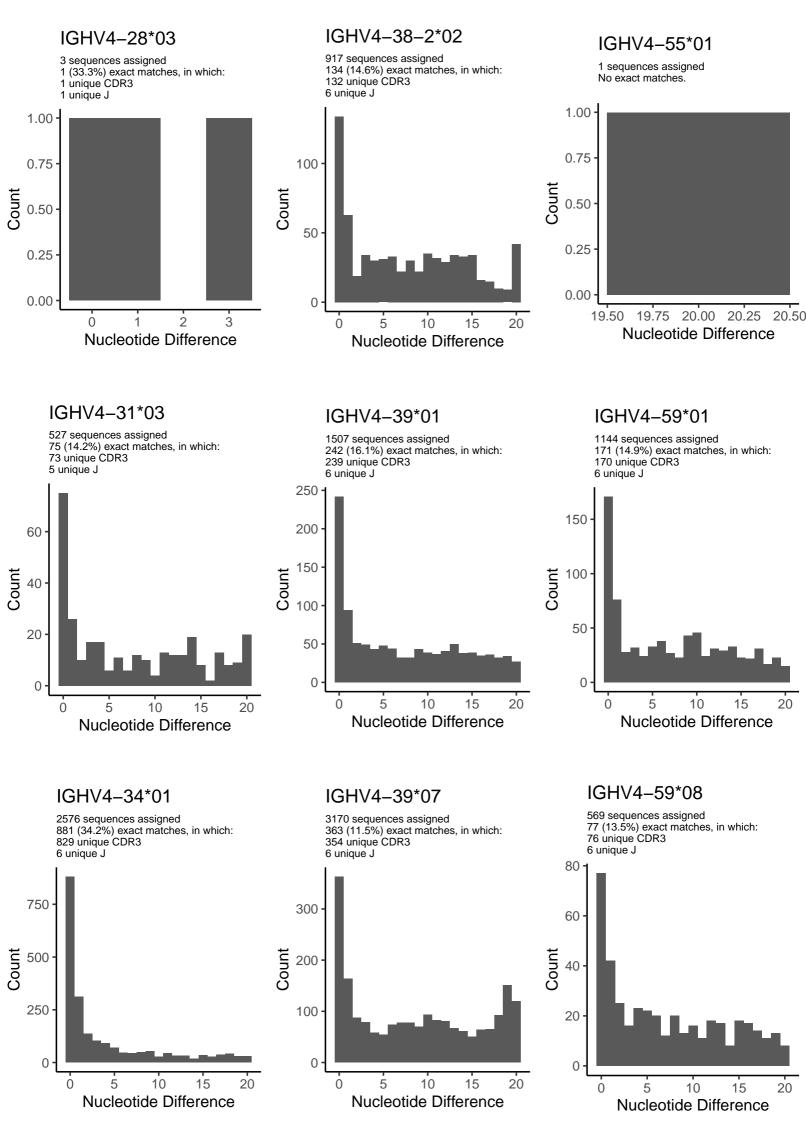


IGHV3-7*03 IGHV3-13*04 IGHV3-21*01 110 sequences assigned 21 (19.1%) exact matches, in which: 782 sequences assigned 1865 sequences assigned 47 (6%) exact matches, in which: 313 (16.8%) exact matches, in which: 298 unique CDR3 21 unique CDR3 46 unique CDR3 5 unique J 5 unique J 6 unique J 20 300 40 15 30 200 Count Count 10 100 5 10 0 0 0 20 5 10 15 0 10 15 20 10 0 0 5 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-13*05 IGHV3-11*05 IGHV3-30-3*03 56 sequences assigned 7 (12.5%) exact matches, in which: 7 unique CDR3 517 sequences assigned 71 (13.7%) exact matches, in which: 35 sequences assigned No exact matches. 62 unique CDR3 2 unique J 5 unique J 6 6 60 Count Count 2 2 20 0 0 10 15 20 10 15 0 20 10 15 0 5 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-11*06 IGHV3-33*01 IGHV3-15*01 287 sequences assigned 768 sequences assigned 1724 sequences assigned 28 (9.8%) exact matches, in which: 70 (9.1%) exact matches, in which: 139 (8.1%) exact matches, in which: 28 unique CDR3 70 unique CDR3 135 unique CDR3 4 unique J 6 unique J 6 unique J 60 100 20 Count Count 40 50 10 20 0 0 0 5 10 15 20 0 5 10 15 20 0 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference







IGHV4-61*01 IGHV5-10-1*03 IGHV6-1*01 258 sequences assigned 25 (9.7%) exact matches, in which: 481 sequences assigned 66 (13.7%) exact matches, in which: 279 sequences assigned 31 (11.1%) exact matches, in which: 25 unique CDR3 63 unique CDR3 29 unique CDR3 5 unique J 5 unique J 6 unique J 25 30 60 20 40 15 Count Count Count 10 10 20 5 0 0 0 10 15 0 10 10 15 0 5 20 5 15 20 0 5 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV5-51*01 IGHV4/OR15-8*01 IGHV3/OR16-6*02 916 sequences assigned 125 (13.6%) exact matches, in which: 15 sequences assigned 1 sequences assigned No exact matches No exact matches. 125 unique CDR3 6 unique J 2.0 1.00 120 1.5 0.75 80 Count 0.50 40 0.25 0.5 0.00 0.0 0 2.75 3.25 3.50 2.50 3.00 5 10 15 20 5 10 15 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV5-10-1*01 IGHV5-51*03 IGHV3/OR16-9*01 241 sequences assigned 671 sequences assigned 45 (18.7%) exact matches, in which: 1 sequences assigned 82 (12.2%) exact matches, in which: 45 unique CDR3 79 unique CDR3 No exact matches. 6 unique J 6 unique J 1.00 80 40 0.75 60 30 0.50 40 20 0.25 20 10

0

0

5

10

Nucleotide Difference

15

20

0

0

5

10

Nucleotide Difference

15

20

0.00

5.50

5.75

6.00

Nucleotide Difference

6.25

6.50



