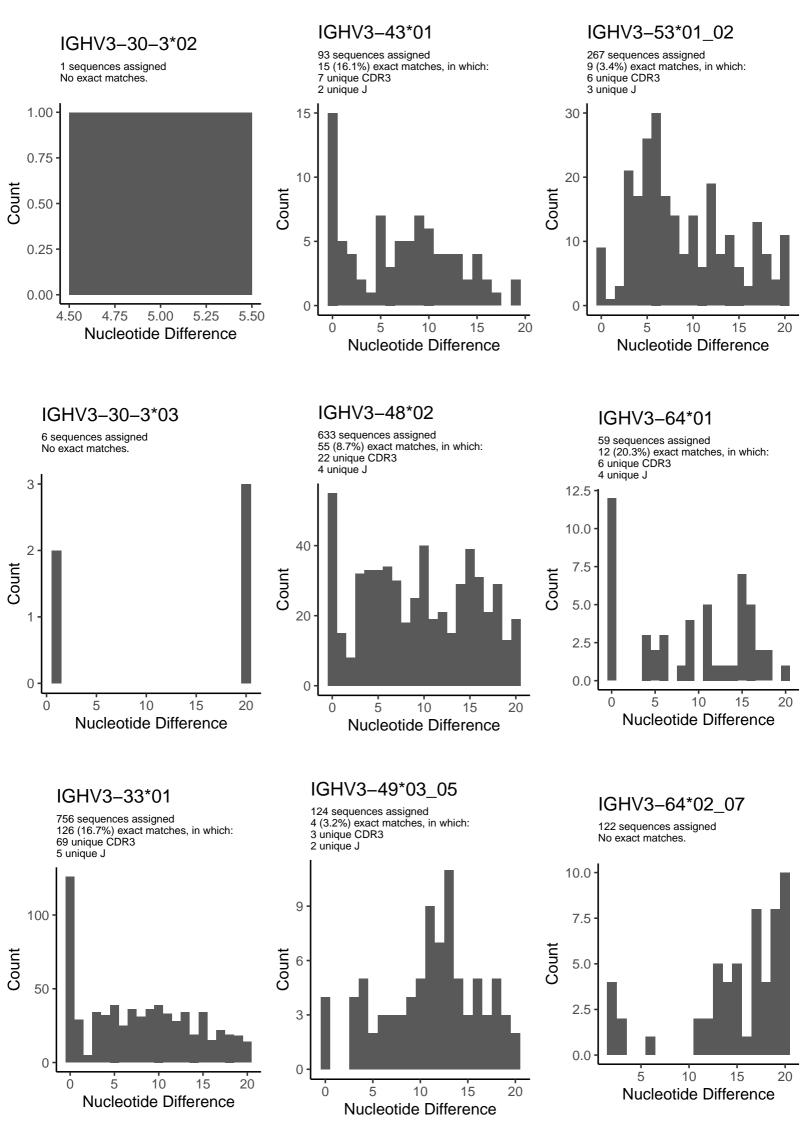
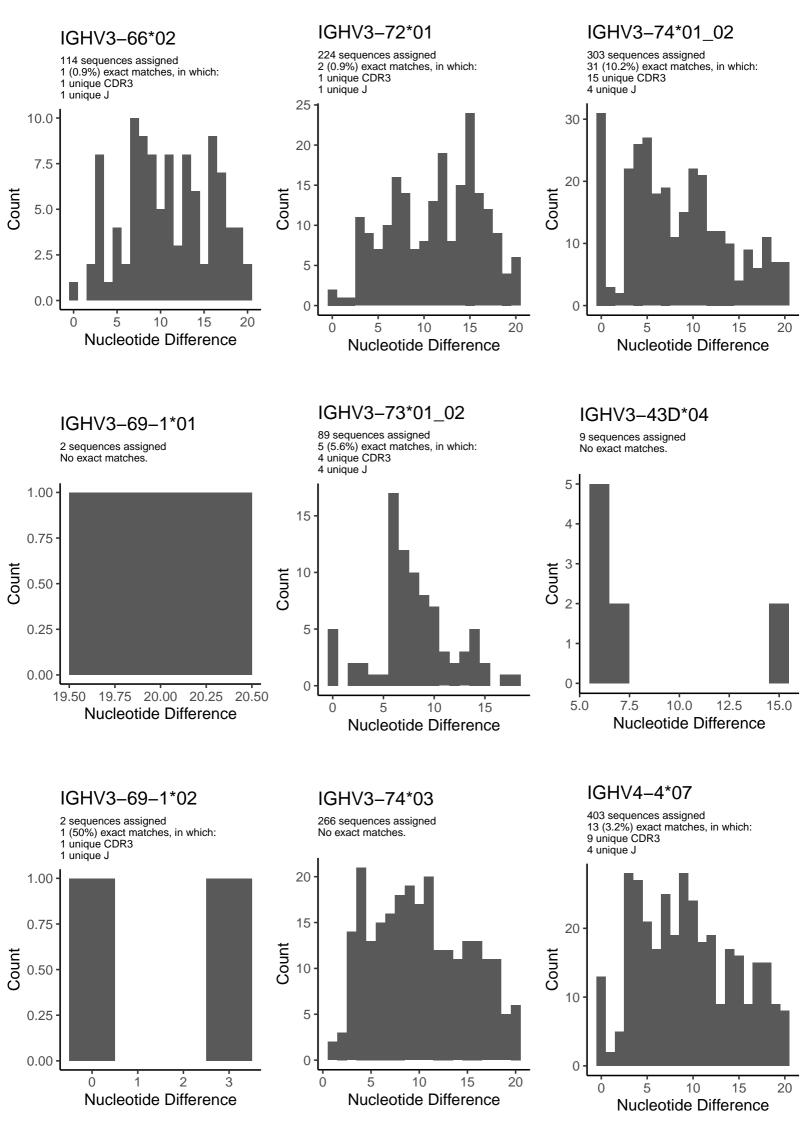
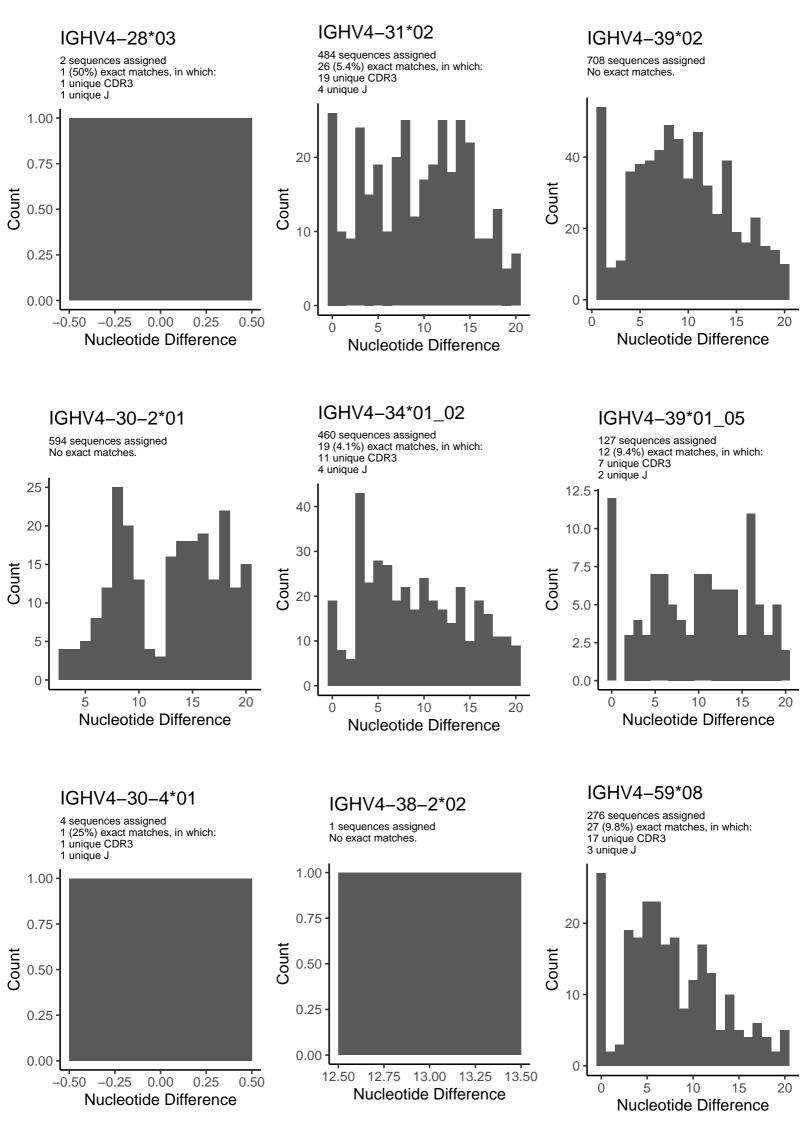


IGHV3-7*01 IGHV3-13*01 IGHV3-20*03_04 1006 sequences assigned 56 (5.6%) exact matches, in which: 216 sequences assigned 12 (5.6%) exact matches, in which: 24 sequences assigned No exact matches. 5 unique CDR3 31 unique CDR3 5 unique J 2 unique J 5 20 60 15 3 Count 10 20 5 1 0 0 0 12 16 10 15 20 0 10 15 20 0 5 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-9*01 IGHV3-15*01_02 IGHV3-21*01_02 259 sequences assigned 54 (20.8%) exact matches, in which: 442 sequences assigned 1047 sequences assigned 86 (8.2%) exact matches, in which: 53 (12%) exact matches, in which: 27 unique CDR3 32 unique CDR3 44 ùniqué CDR3 3 unique J 5 unique J 5 unique J 100 40 40 75 Count Count 50 20 20 25 0 0 0 10 15 20 0 5 0 10 15 20 10 15 20 5 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-20*01_02 IGHV3-11*01 IGHV3-23*01_04 37 sequences assigned 8 (21.6%) exact matches, in which: 5 unique CDR3 468 sequences assigned 2744 sequences assigned 98 (3.6%) exact matches, in which: 41 (8.8%) exact matches, in which: 23 unique CDR3 51 unique CDR3 3 unique J 5 unique J 5 unique J 40 150 6 30 Count Count 100 20 50 10 2 0 0 0 5 10 15 20 10 0 5 15 20 0 5 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference







IGHV4-59*02_G88A IGHV5-51*07_A128G 739 sequences assigned 76 (10.3%) exact matches, in which: 303 sequences assigned 26 (8.6%) exact matches, in which: 21 unique CDR3 5 unique J 40 unique CDR3 5 unique J 30 60 20 Count 10 20 0 0 0 5 10 15 20 0 5 10 15 20 Nucleotide Difference Nucleotide Difference IGHV4-61*01 IGHV6-1*01_02 230 sequences assigned 8 (3.5%) exact matches, in which: 8 unique CDR3 158 sequences assigned 9 (5.7%) exact matches, in which: 5 unique CDR3 4 unique J 4 unique J 25 20 10 15 Count 10 5 5 0 0 0 5 10 15 20 0 5 10 15 20 Nucleotide Difference **Nucleotide Difference** IGHV7-4-1*01 IGHV4/OR15-8*01 sequences assigned 3 sequences assigned 1 (100%) exact matches, in which: No exact matches. 1 unique CDR3 1 unique J 2.0 1.00 1.5 0.75 Count Count 0.5 0.25 0.0 0.00 0.50 6 -0.50 -0.25 0.00 0.25 **Nucleotide Difference Nucleotide Difference**



