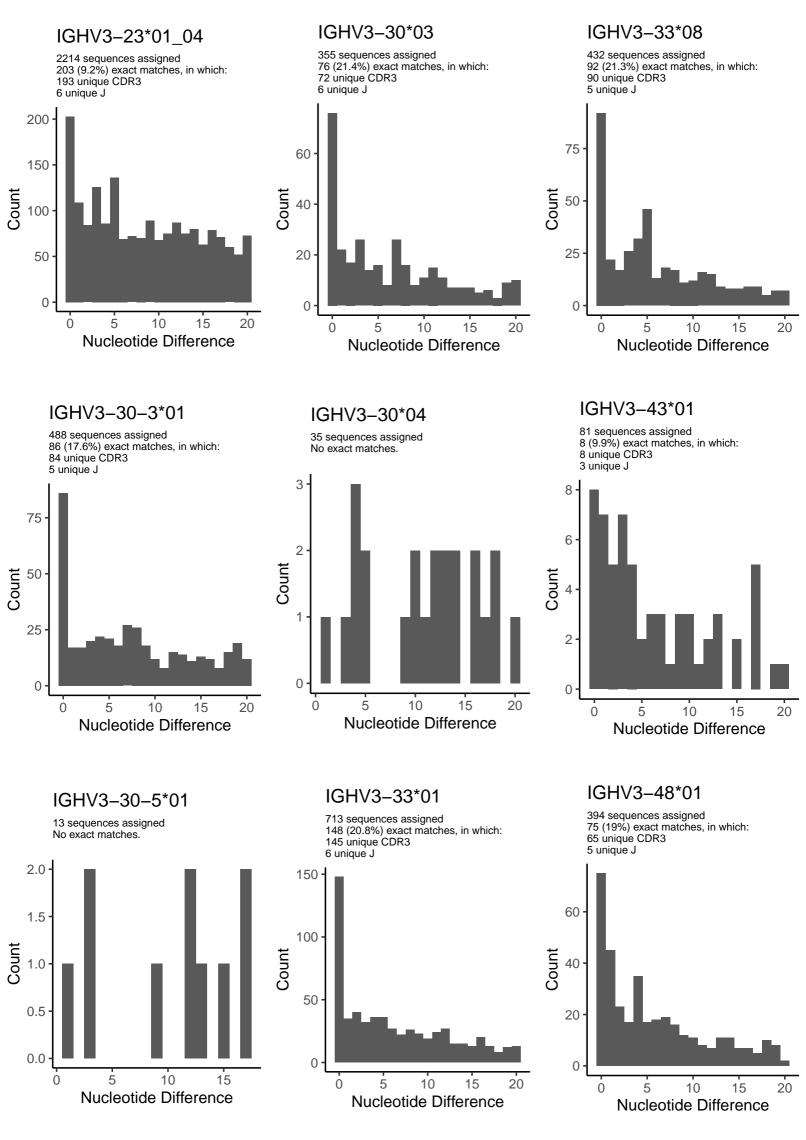
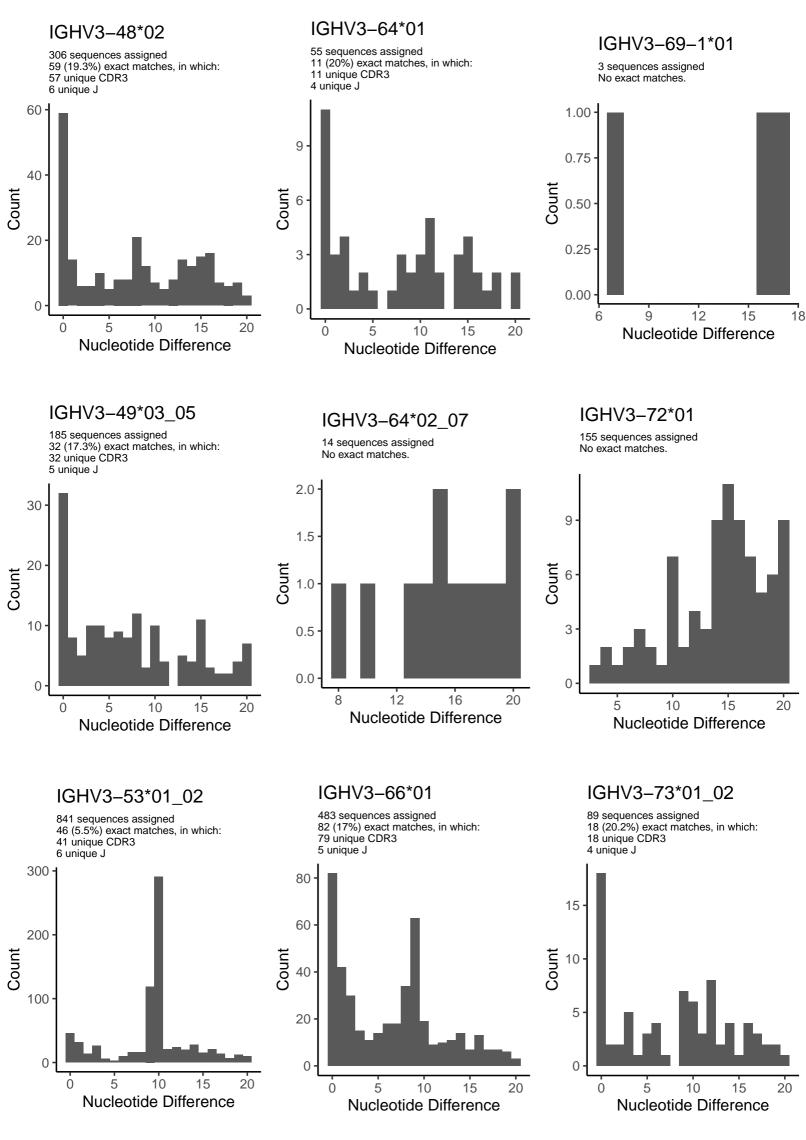
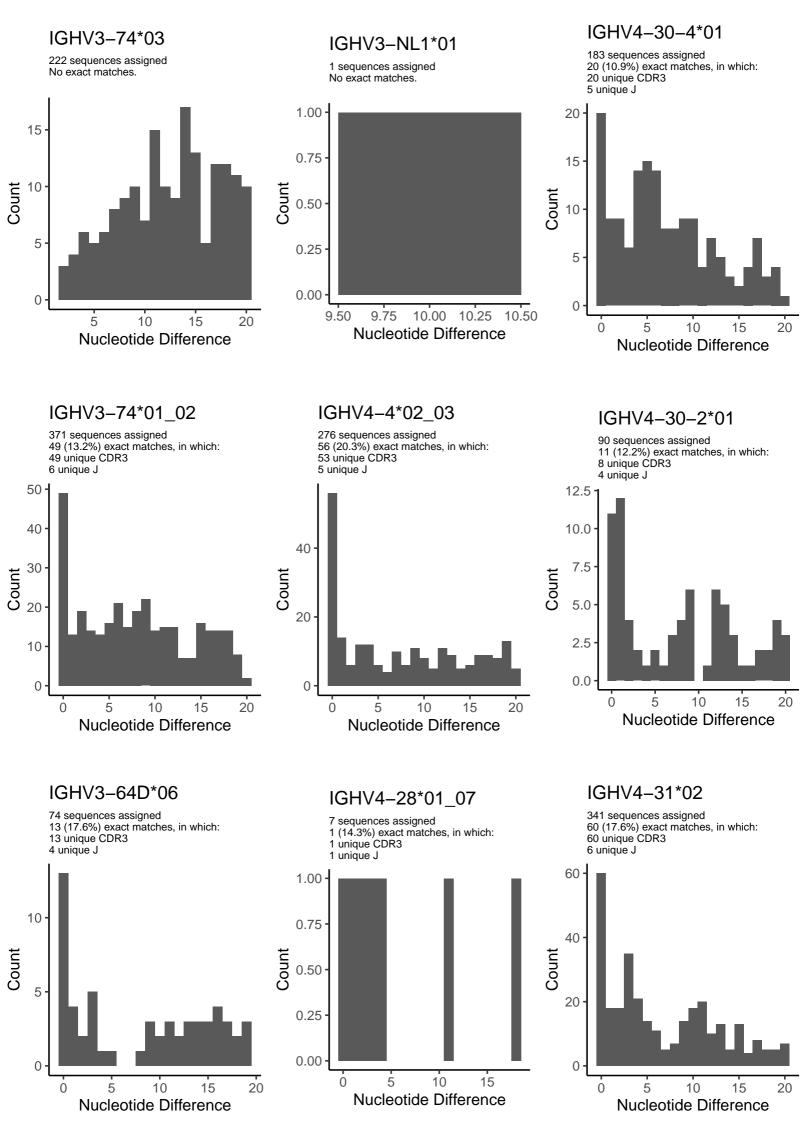
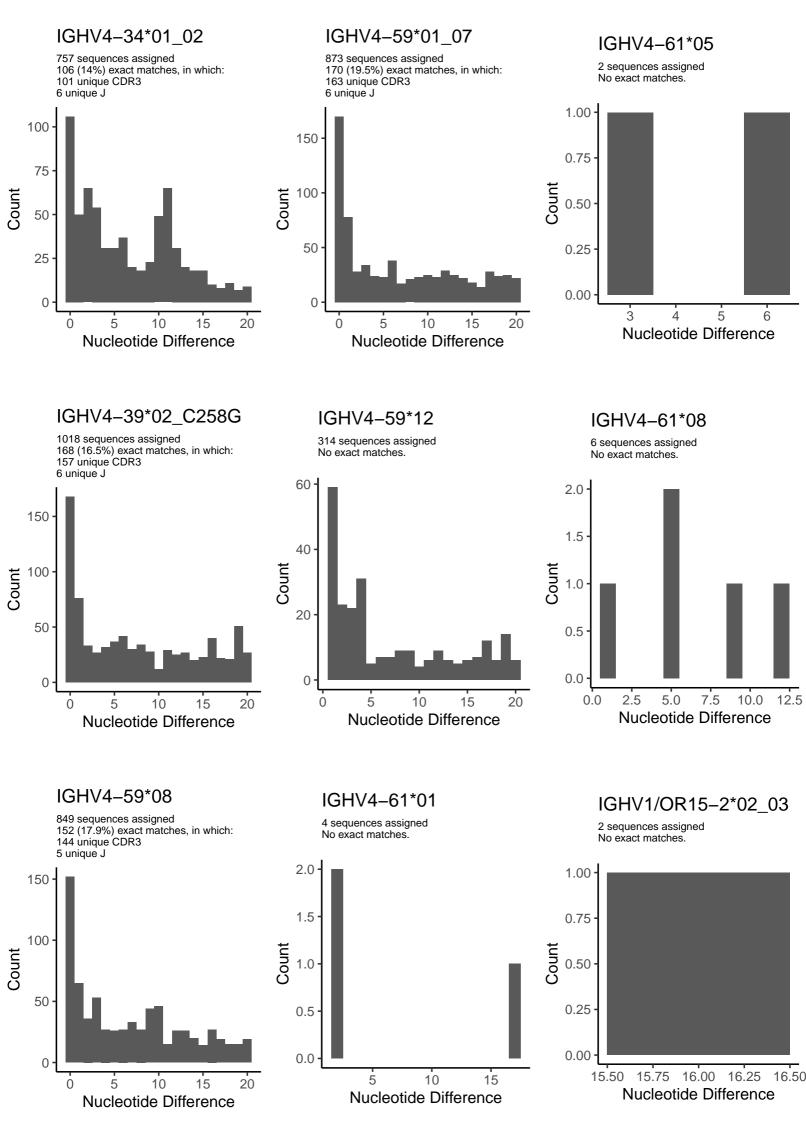


IGHV3-20*01_02 IGHV3-11*01 IGHV3-13*01_G290A_T3 18 sequences assigned 7 (38.9%) exact matches, in which: 7 unique CDR3 259 sequences assigned 77 sequences assigned 37 (14.3%) exact matches, in which: 8 (10.4%) exact matches, in which: 36 unique CDR3 7 unique CDR3 4 unique J 6 unique J 4 unique J 6 7.5 30 Count Count 5.0 2.5 2 10 0 0 10 15 0 5 10 0 15 0 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-20*03_04 IGHV3-15*07 IGHV3-11*06 29 sequences assigned 4 (13.8%) exact matches, in which: 4 unique CDR3 205 sequences assigned 48 (23.4%) exact matches, in which: 69 sequences assigned 10 (14.5%) exact matches, in which: 48 unique CDR3 10 unique CDR3 2 unique J 5 unique J 3 unique J 50 10.0 40 3 7.5 30 Count Count 5.0 2 20 2.5 1 10 0.0 0 0 20 10 15 5 0 10 15 20 0 5 10 15 20 0 5 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-13*01 IGHV3-15*01_02 IGHV3-21*01_02 308 sequences assigned 106 sequences assigned 683 sequences assigned 29 (9.4%) exact matches, in which: 15 (14.2%) exact matches, in which: 138 (20.2%) exact matches, in which: 13 unique CDR3 29 unique CDR3 134 unique CDR3 3 unique J 4 unique J 5 unique J 15 40 100 30 Count Count 20 50 5 10 0 0 0 10 20 15 0 10 15 20 0 5 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference









IGHV5-51*07_A128G IGHV4/OR15-8*02 1009 sequences assigned 278 (27.6%) exact matches, in which: 274 unique CDR3 3 sequences assigned No exact matches. 6 unique J 1.00 -0.75 200 Count 0.50 100 0.25 0.00 0 19.50 19.75 20.00 20.25 10 0 5 15 20 **Nucleotide Difference Nucleotide Difference** IGHV6-1*01_02 IGHV4/OR15-8*03 158 sequences assigned 16 (10.1%) exact matches, in which: 16 unique CDR3 1 sequences assigned No exact matches. 4 unique J 1.00 -15 0.75 Count 0.50 5 0.25 0.00 0 13.75 14.00 14.25 13.50 0 10 15 20 5 **Nucleotide Difference** Nucleotide Difference IGHV5-10-1*01_03 IGHV7-4-1*01 210 sequences assigned 2 sequences assigned 33 (15.7%) exact matches, in which: No exact matches. 32 unique CDR3 5 unique J 2.0 30 1.5 1.0 0.5 10 0.0 0 1.25 0.75 1.00 1.50 0.50 10 0 15 20

Nucleotide Difference

Nucleotide Difference



