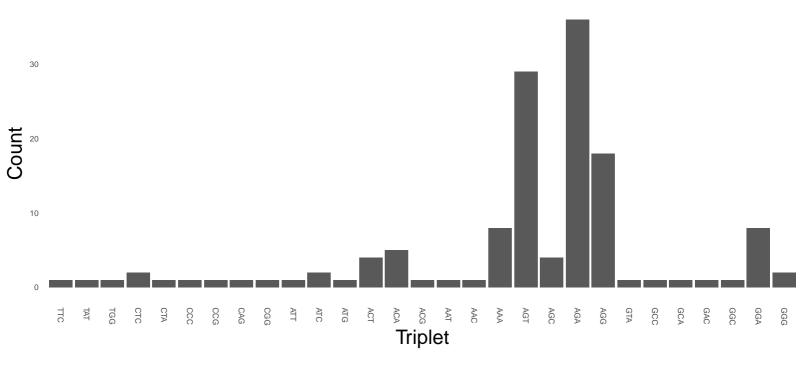
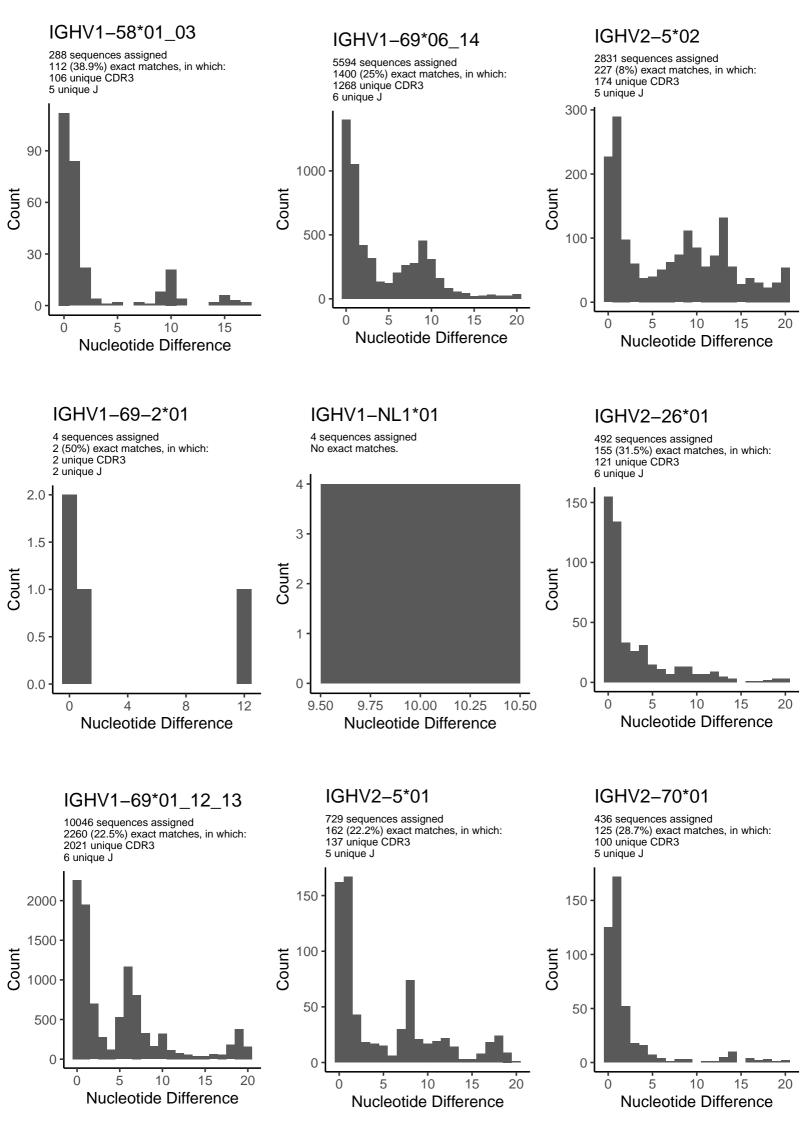
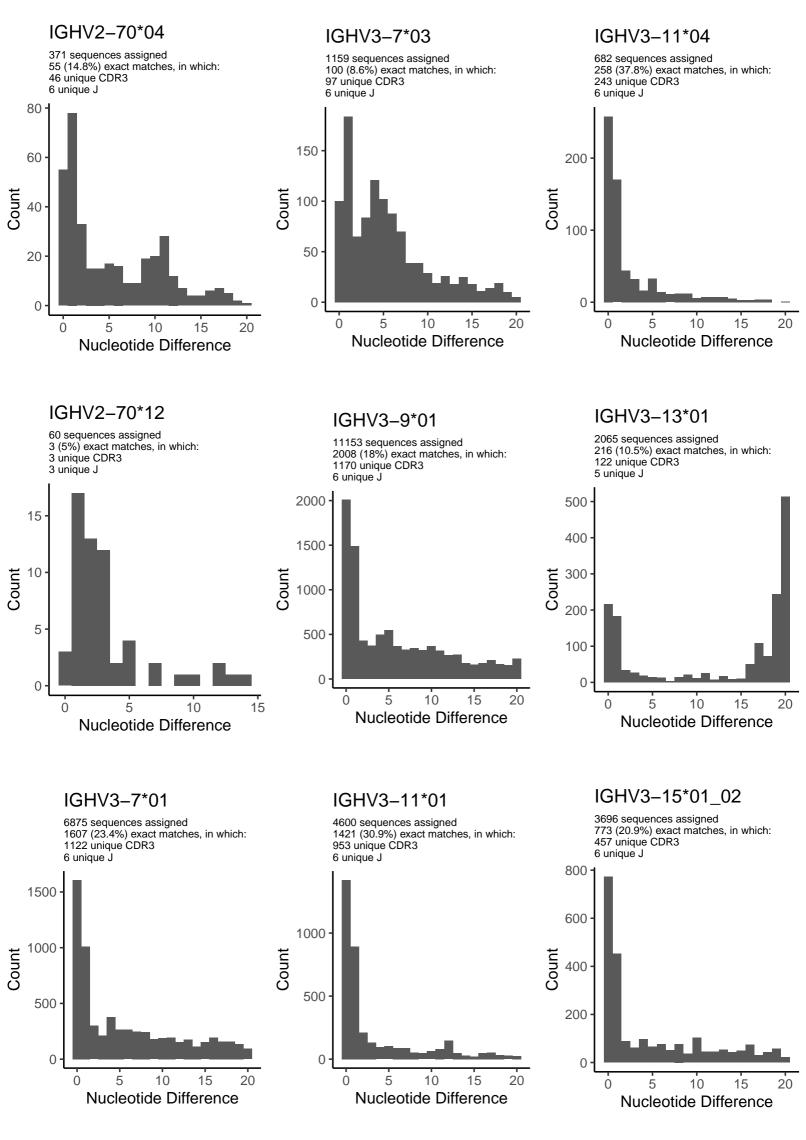


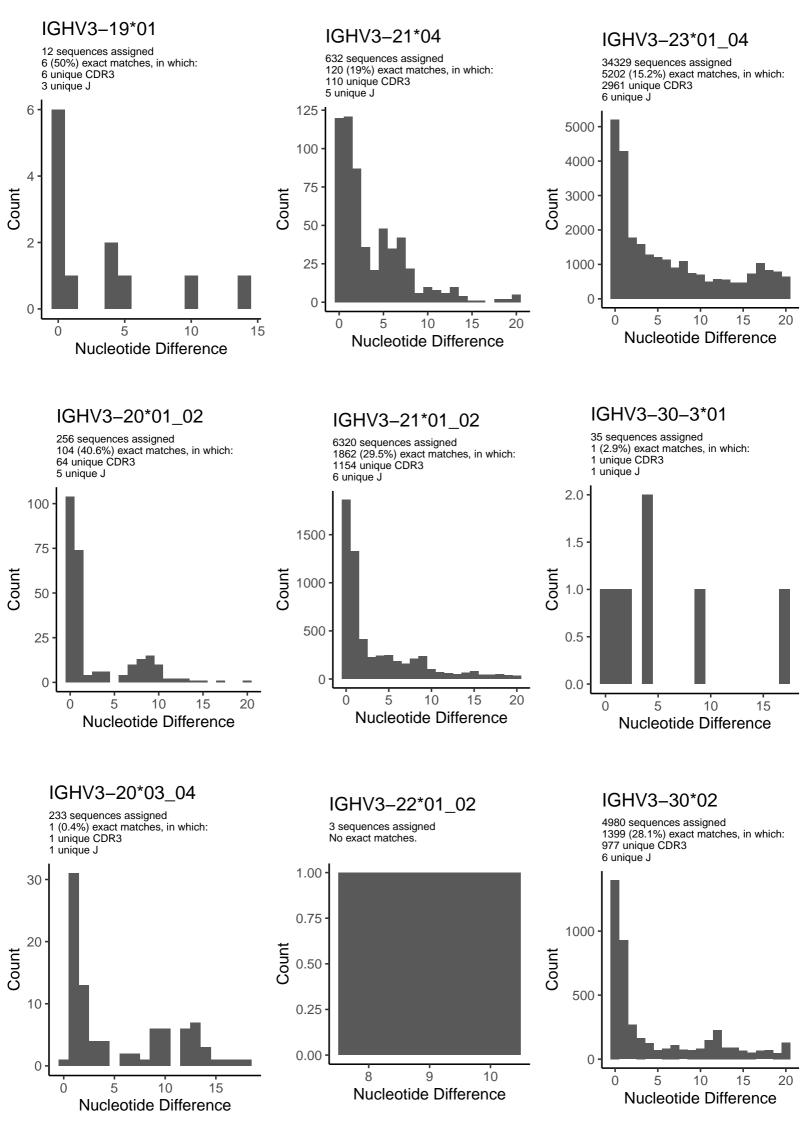
IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet

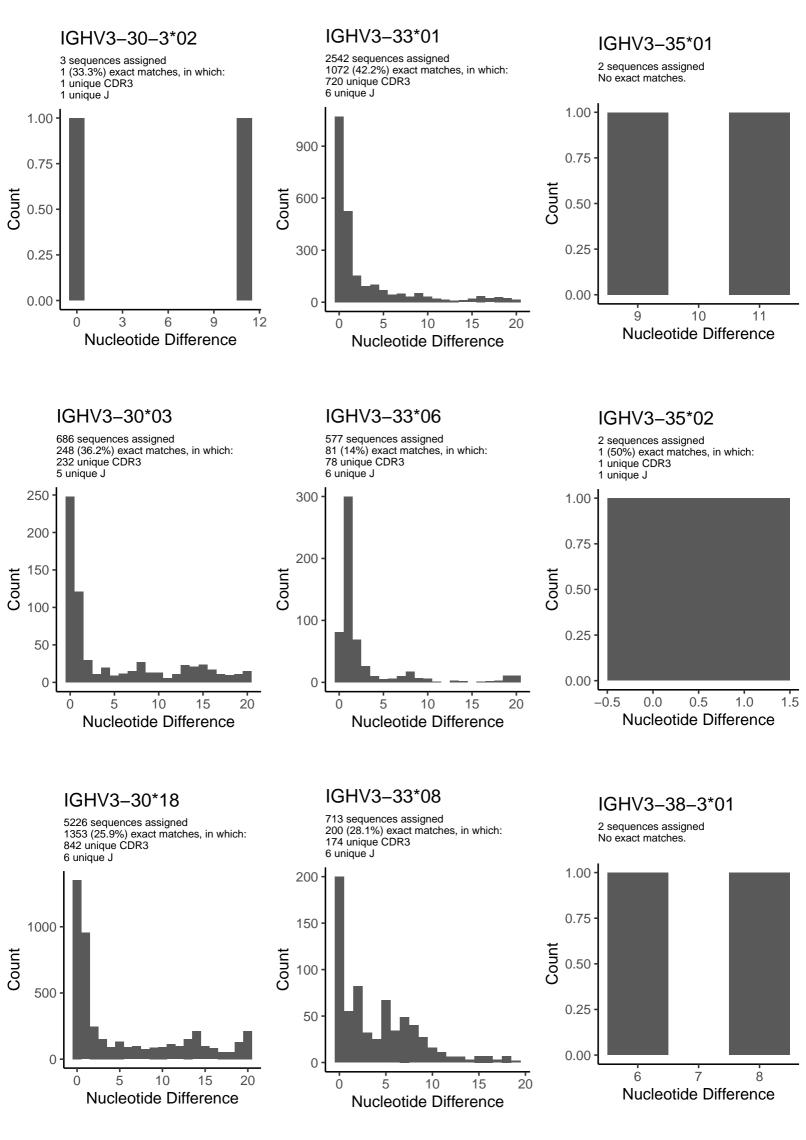


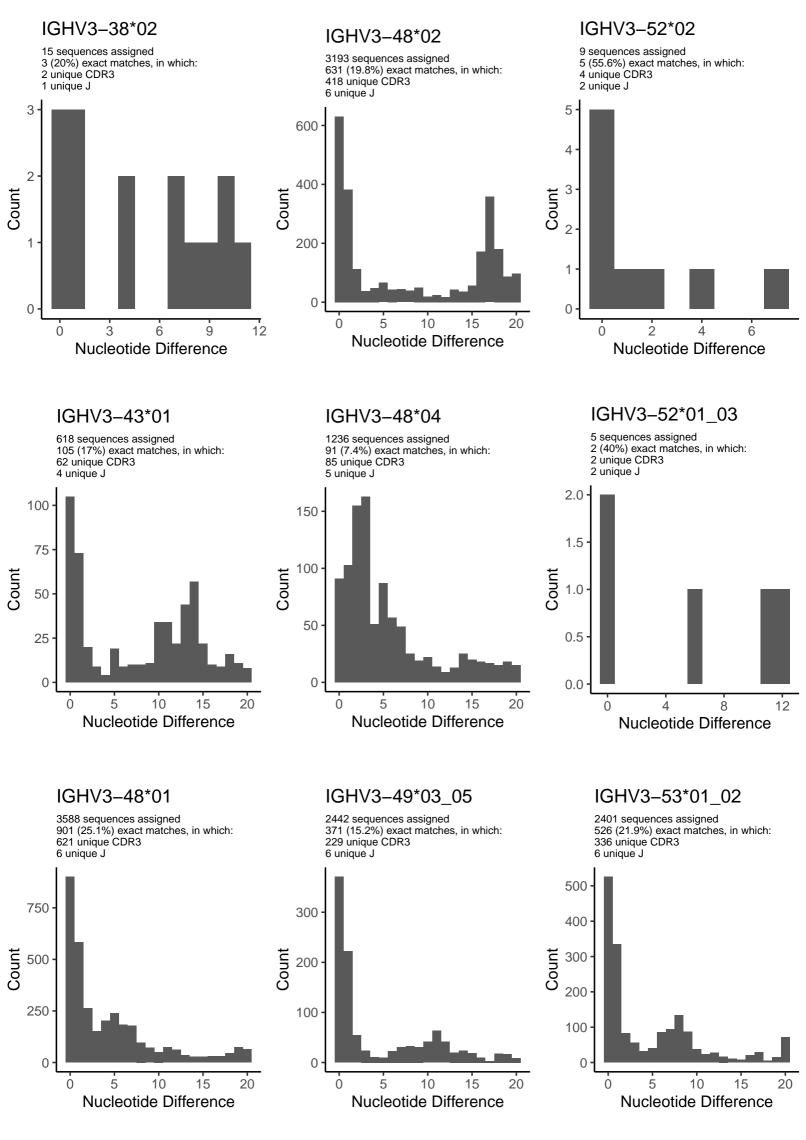
IGHV1-2*02 IGHV1-18*01 IGHV1-46*01 12320 sequences assigned 2726 (22.1%) exact matches, in which: 13861 sequences assigned 3009 (21.7%) exact matches, in which: 3633 sequences assigned 1040 (28.6%) exact matches, in which: 2458 unique CDR3 2241 unique CDR3 932 unique CDR3 6 unique J 6 unique J 6 unique J 3000 1000 3000 750 2000 Count Count 2000 500 1000 1000 250 0 0 0 0 10 15 20 0 10 15 20 5 10 15 20 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV1-3*02 IGHV1-24*01 IGHV1-46*03 67 sequences assigned 1799 sequences assigned 1938 sequences assigned 40 (59.7%) exact matches, in which: 318 (16.4%) exact matches, in which: 257 (14.3%) exact matches, in which: 40 unique CDR3 194 unique CDR3 239 unique CDR3 5 unique J 6 unique J 6 unique J 40 400 300 30 300 Count Count Count 200 200 100 10 100 0 0 0 5 10 15 20 20 0 0 5 10 15 10 15 20 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-45*02 IGHV1-58*02 IGHV1-8*01 52 sequences assigned 10984 sequences assigned 2294 (20.9%) exact matches, in which: 344 sequences assigned 18 (34.6%) exact matches, in which: 120 (34.9%) exact matches, in which: 15 unique CDR3 104 unique CDR3 1956 unique CDR3 4 unique J 5 unique J 6 unique J 125 2000 15 100 1500 75 10 1000 50 5 500 25 0 0 0 0 10 15 20 20 10 0 15 0 10 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference**

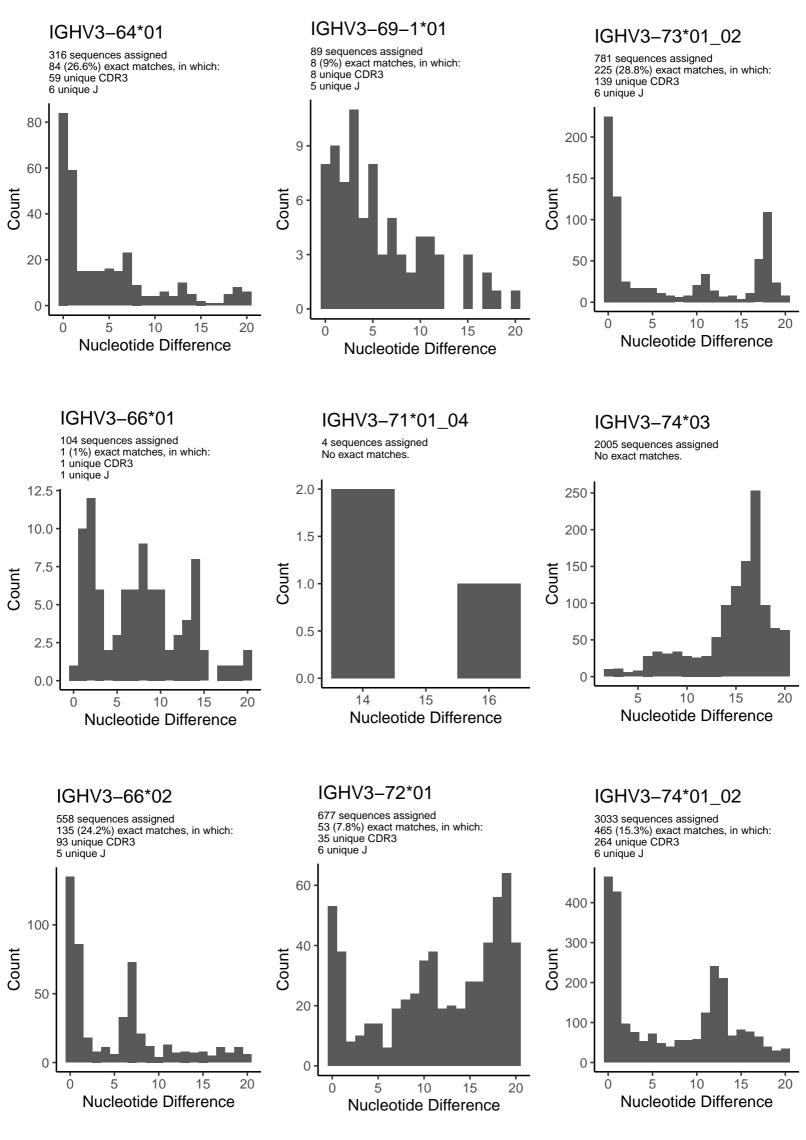


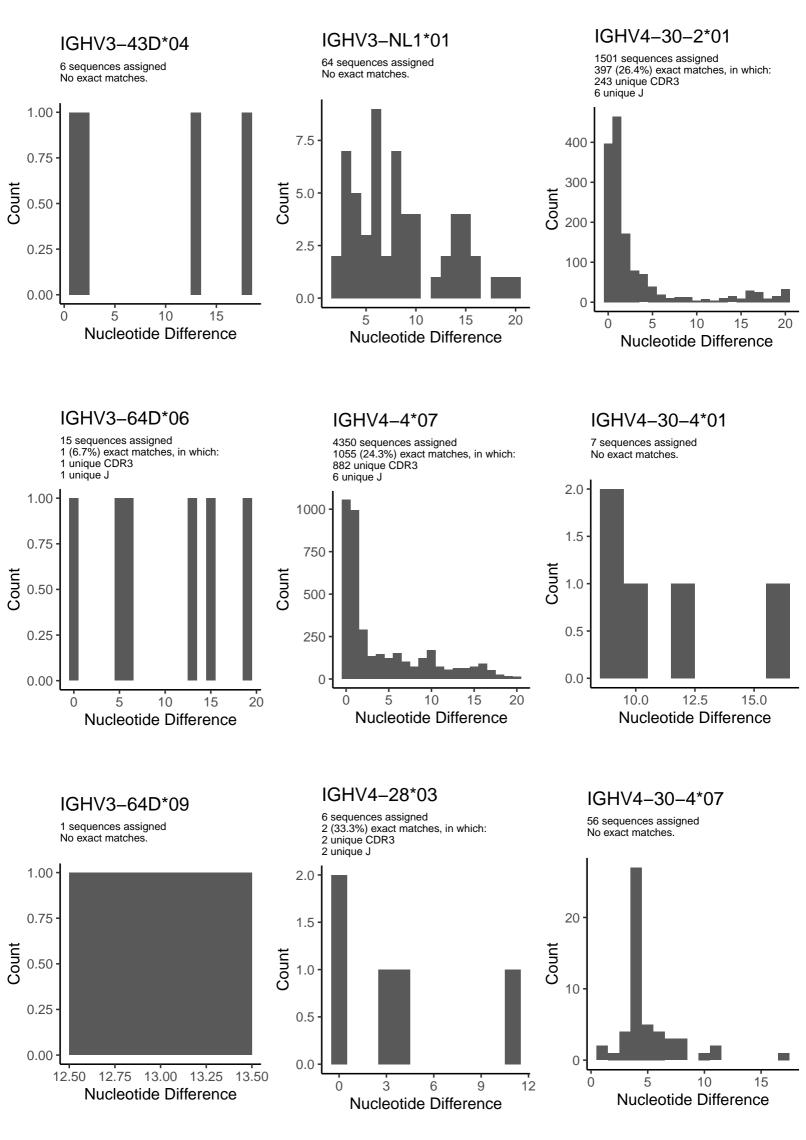


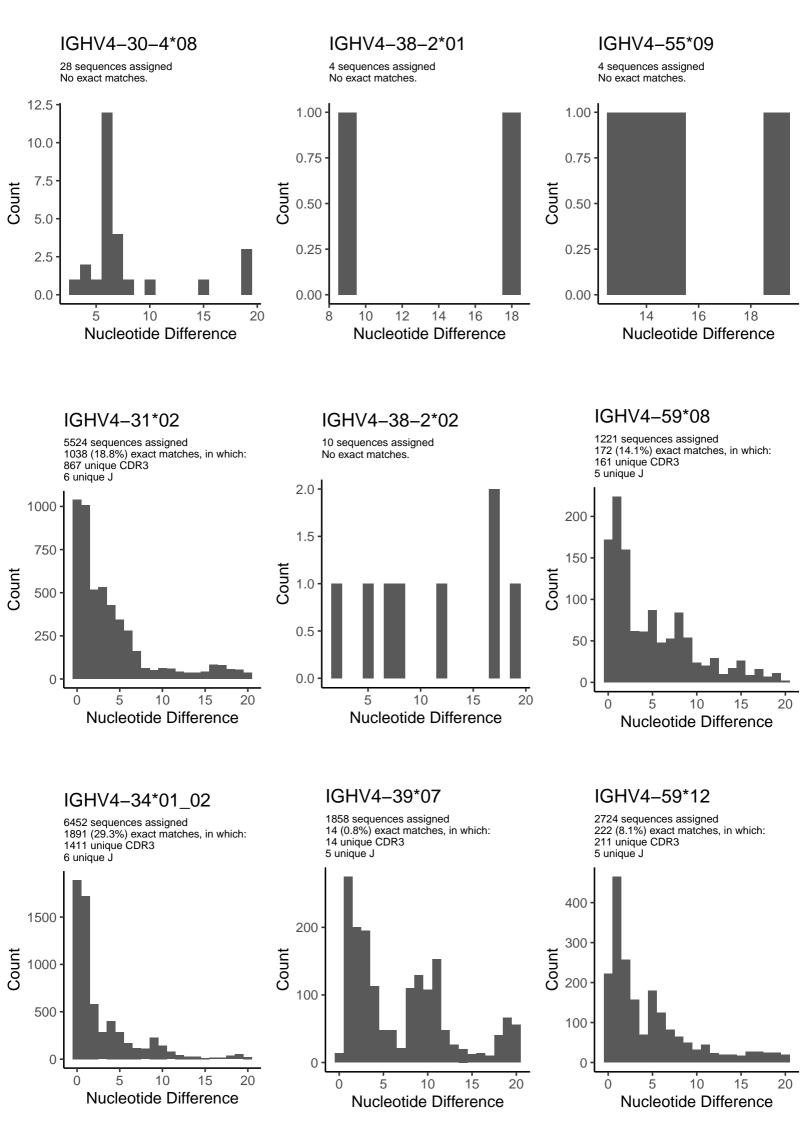


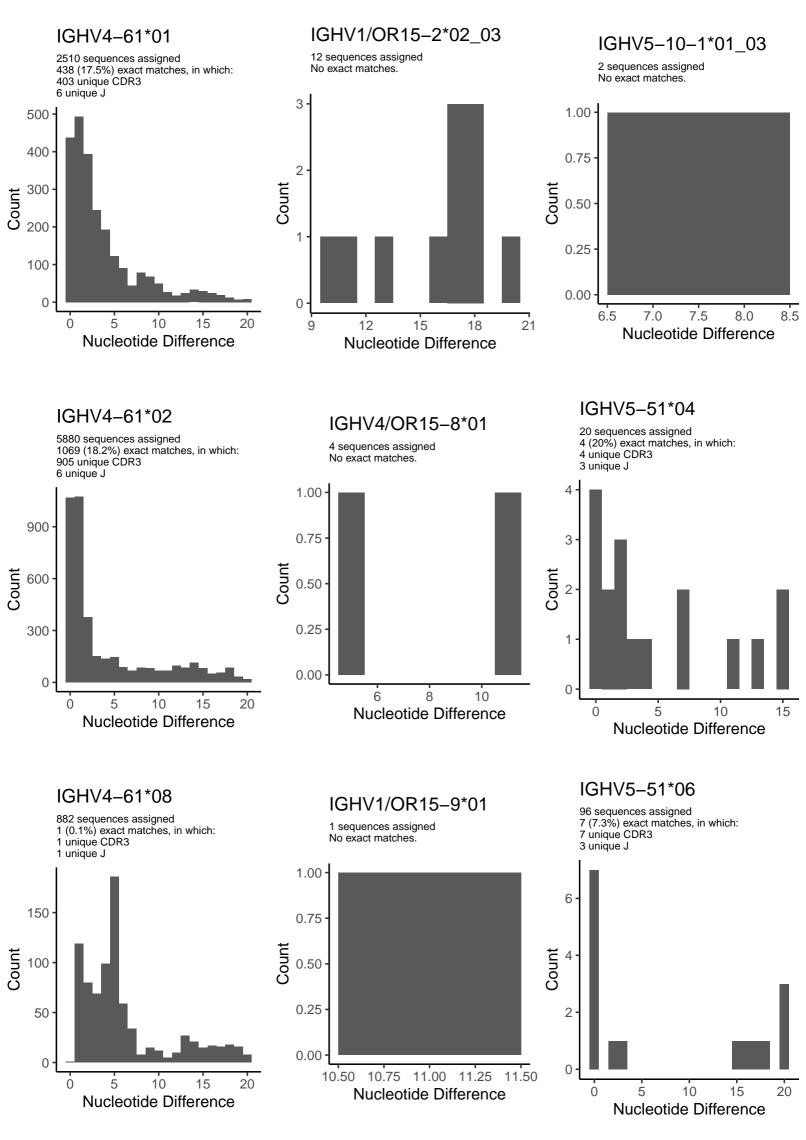












IGHV5-51*07 IGHV3/OR16-6*02 28 sequences assigned 16 (57.1%) exact matches, in which: 2 sequences assigned 14 unique CDR3 No exact matches. 5 unique J 1.00 -15 0.75 Count Count 5 0.25 0.00 0 7.50 7.75 8.00 8.25 8.50 0 5 10 15 **Nucleotide Difference** Nucleotide Difference IGHV6-1*01_02 IGHV3/OR16-10*01_03 1086 sequences assigned 157 (14.5%) exact matches, in which: 120 unique CDR3 1 sequences assigned No exact matches. 6 unique J 1.00 -0.75 200 Count 0.50 Count 100 0.25 0.00 0 7.50 7.75 8.00 8.25 8.50 5 10 15 20 0 **Nucleotide Difference Nucleotide Difference** IGHV6-1*01_02_A315G IGHV7-4-1*02 136 sequences assigned 2 sequences assigned 38 (27.9%) exact matches, in which: 37 unique CDR3 No exact matches. 4 unique J 1.00 30 0.75 Count 0.50 0.25 10 0.00 0 10.0 12.5 15.0 10 0 15 **Nucleotide Difference** Nucleotide Difference

IGHV6-1*01_02_A315G

