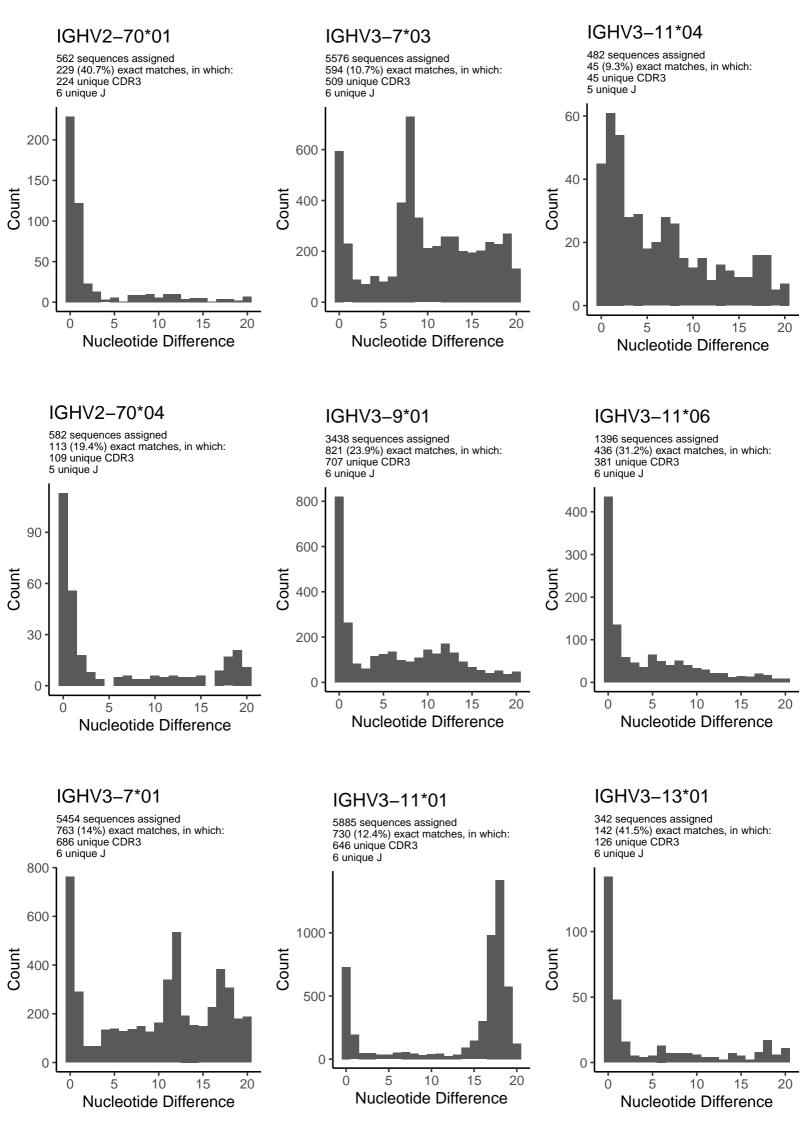
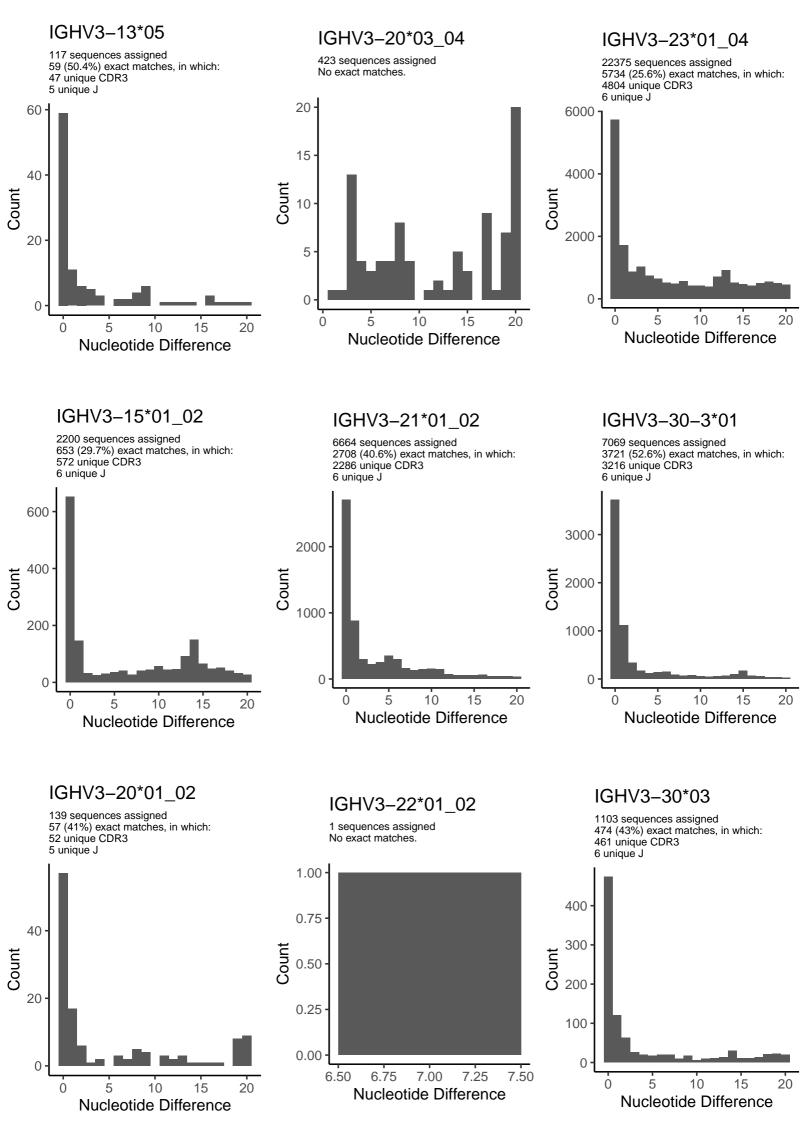
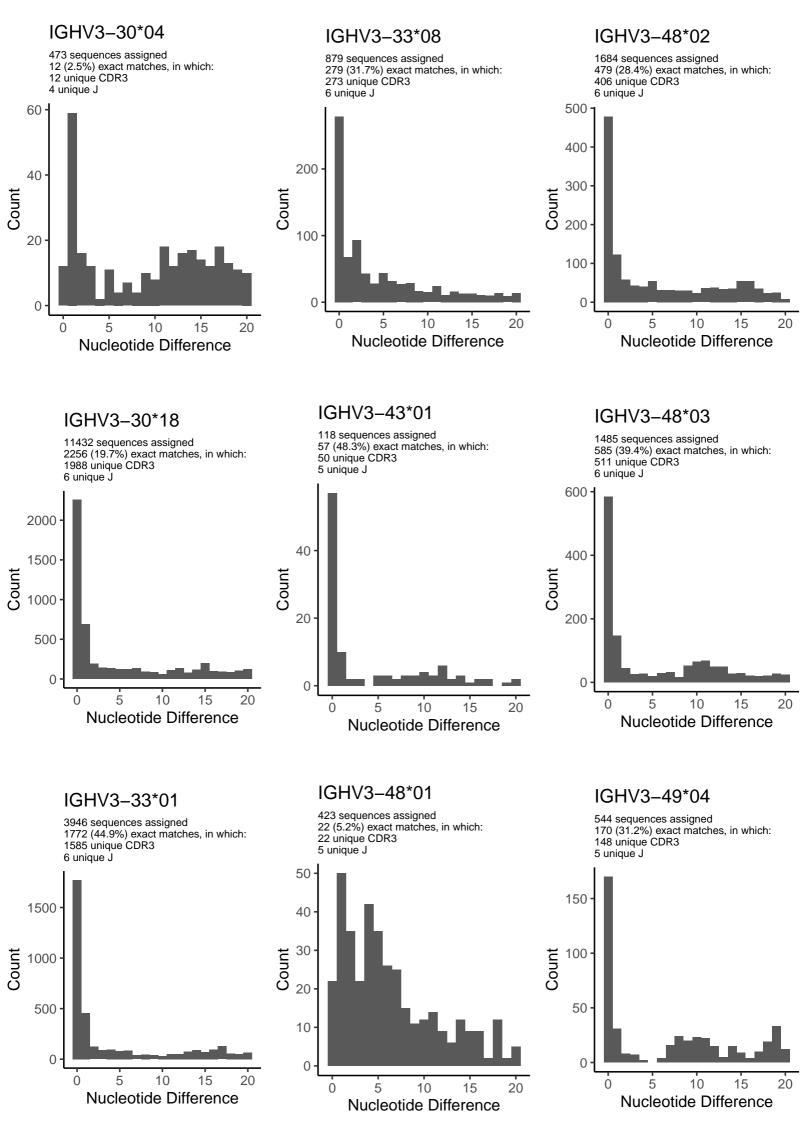
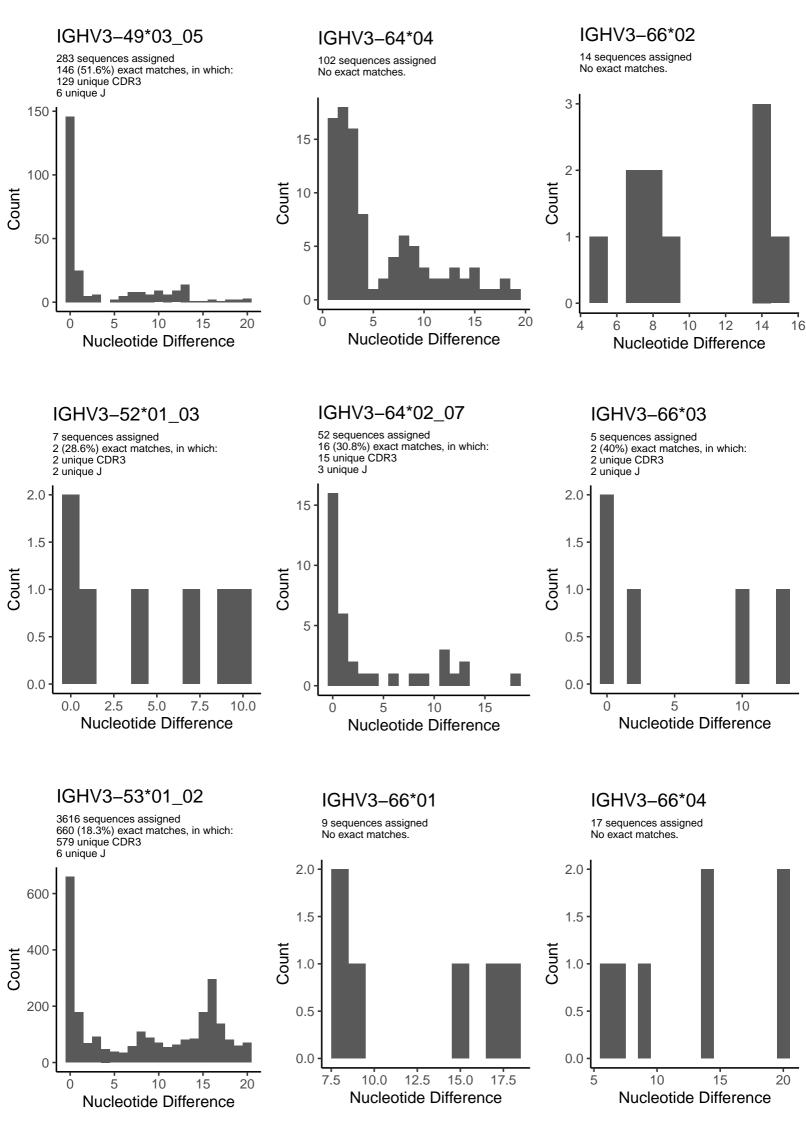


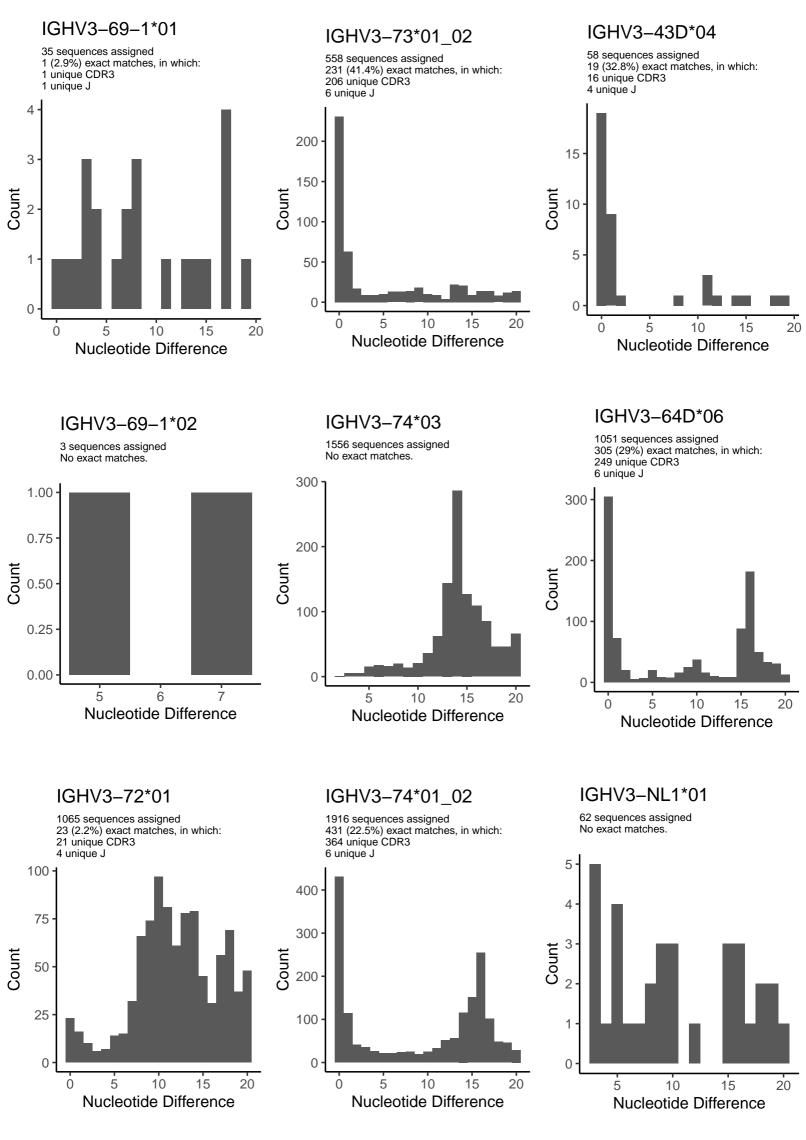
IGHV2-5*01 IGHV1-69*01_12_13 IGHV1-46*01 307 sequences assigned 10024 sequences assigned 4626 (46.1%) exact matches, in which: 6261 sequences assigned 2075 (33.1%) exact matches, in which: 109 (35.5%) exact matches, in which: 106 unique CDR3 1988 unique CDR3 4516 unique CDR3 6 unique J 6 unique J 6 unique J 2000 4000 90 1500 3000 Count Count 60 1000 2000 30 500 1000 0 0 0 10 15 20 0 10 15 20 0 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV1-58*01_03 IGHV2-5*02 IGHV1-69*04_09 742 sequences assigned 381 (51.3%) exact matches, in which: 4228 sequences assigned 1892 (44.7%) exact matches, in which: 2365 sequences assigned 64 (2.7%) exact matches, in which: 371 unique CDR3 63 unique CDR3 1854 unique CDR3 6 unique J 6 unique J 6 unique J 400 300 300 1500 200 Count Count 200 1000 100 500 100 0 0 10 15 10 15 20 10 15 20 0 5 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV1-69-2*01 IGHV2-26*01 IGHV1-69*06_14 8 sequences assigned 232 sequences assigned 3965 sequences assigned 2075 (52.3%) exact matches, in which: 4 (50%) exact matches, in which: 134 (57.8%) exact matches, in which: 4 unique CDR3 132 unique CDR3 2035 unique CDR3 3 unique J 6 unique J 6 unique J 2000 3 100 1500 Count Count 1000 50 500 1 0 0 10 15 20 10 15 10 5 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference

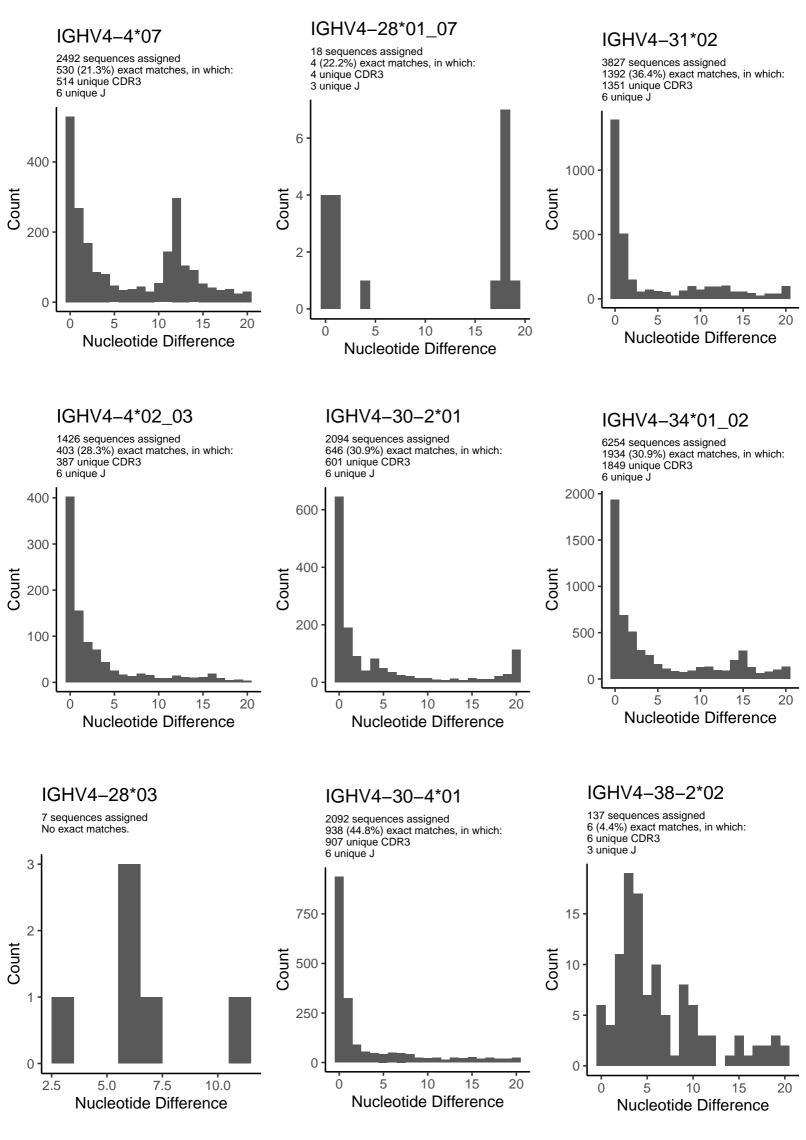


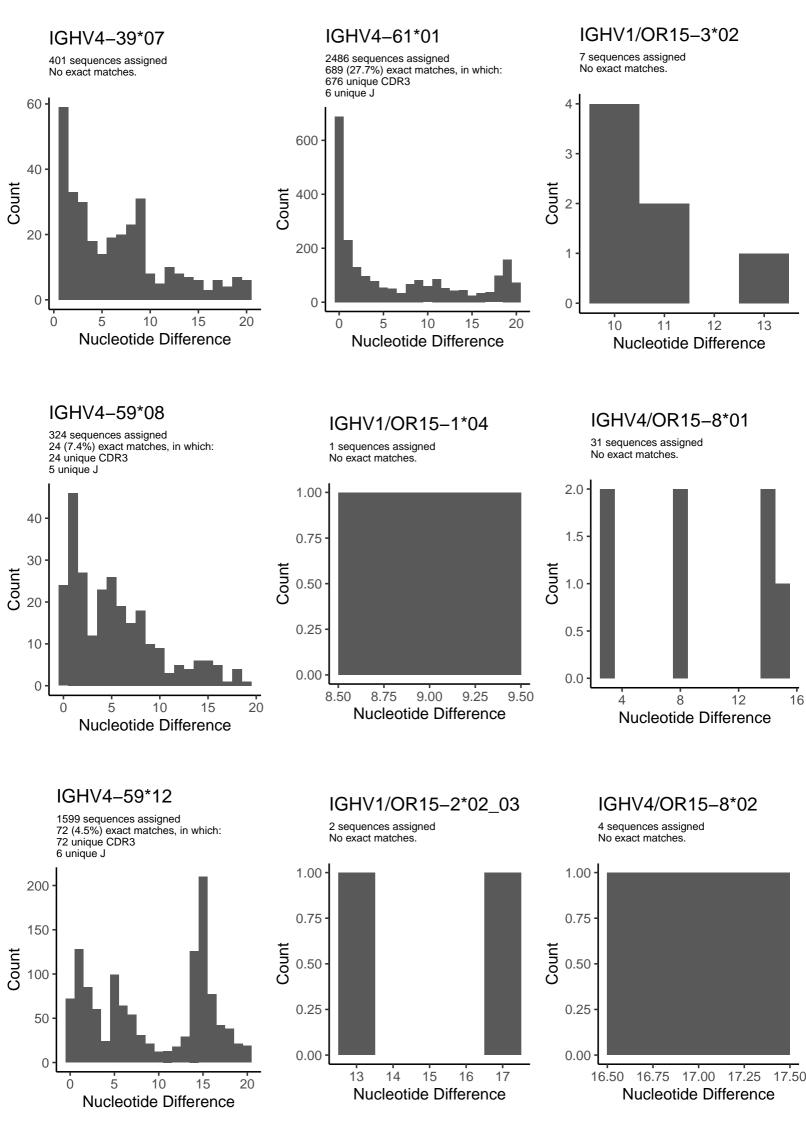












IGHV5-51*07 IGHV5-10-1*01_03 17 sequences assigned 8 (47.1%) exact matches, in which: 8 unique CDR3 5428 sequences assigned 1996 (36.8%) exact matches, in which: 1685 unique CDR3 4 unique J 6 unique J 2000 6 1500 Count 1000 500 2 0 0 0 10 15 20 **Nucleotide Difference Nucleotide Difference** IGHV5-51*04 IGHV6-1*01_02 26 sequences assigned 1 (3.8%) exact matches, in which: 1 unique CDR3 1133 sequences assigned 303 (26.7%) exact matches, in which: 292 unique CDR3 1 unique J 6 unique J 5 300 4 200 Count 2 100 0 0 5 10 15 20 0 10 15 0 **Nucleotide Difference Nucleotide Difference** IGHV5-51*06 IGHV7-4-1*01 18 sequences assigned 2 (11.1%) exact matches, in which: 2 unique LDR3 35 sequences assigned 14 (40%) exact matches, in which: 14 unique CDR3 2 unique J 3 unique J 3 10 Count 2 5 1 0 0 10 15 20 0 5 10 15 Nucleotide Difference **Nucleotide Difference**



