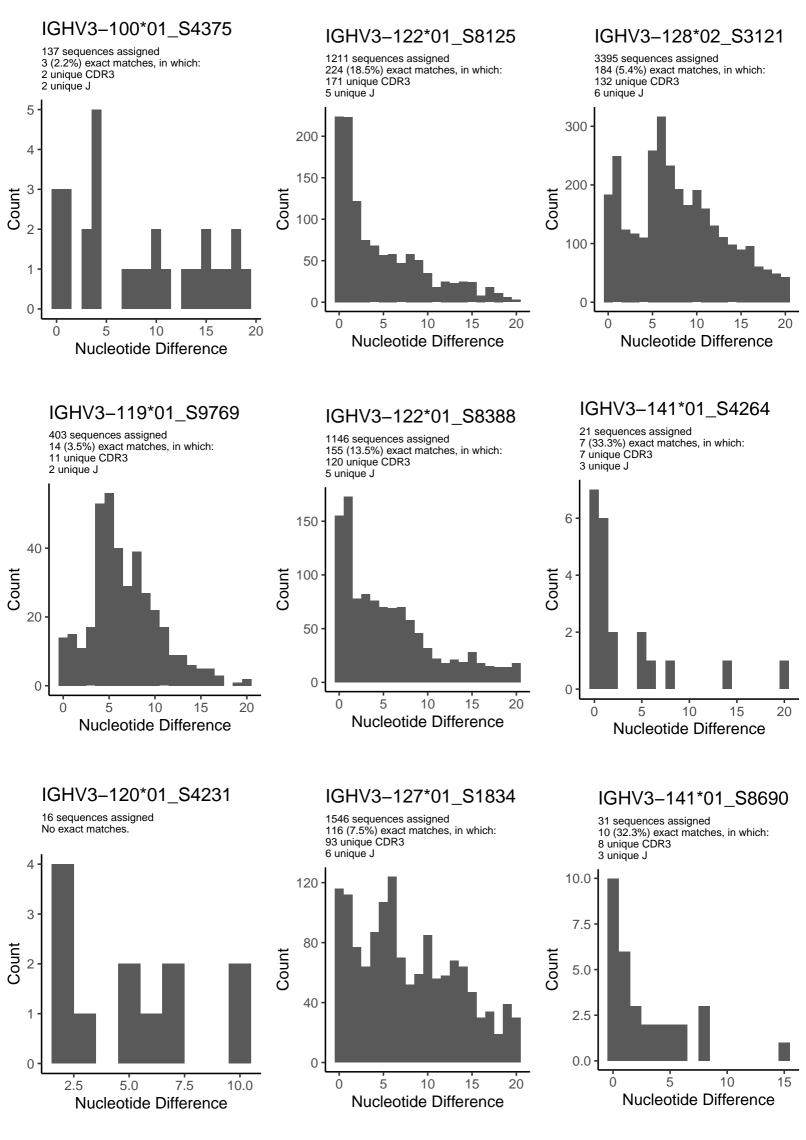
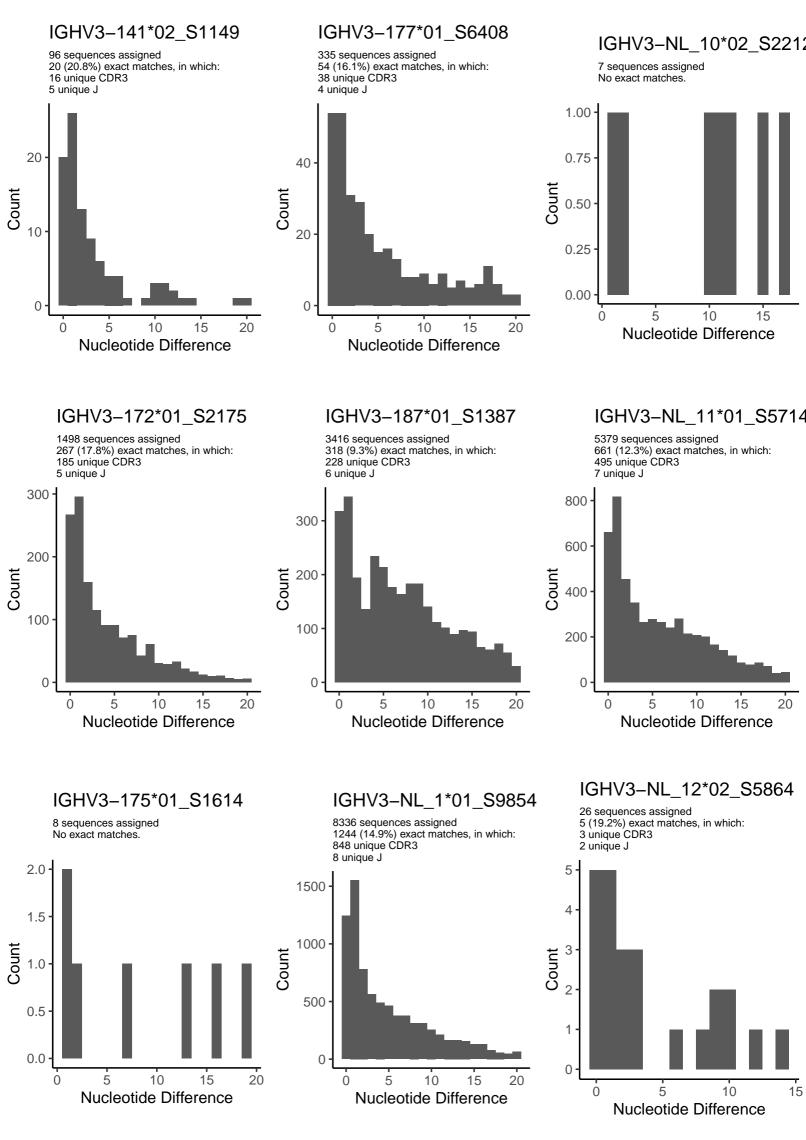
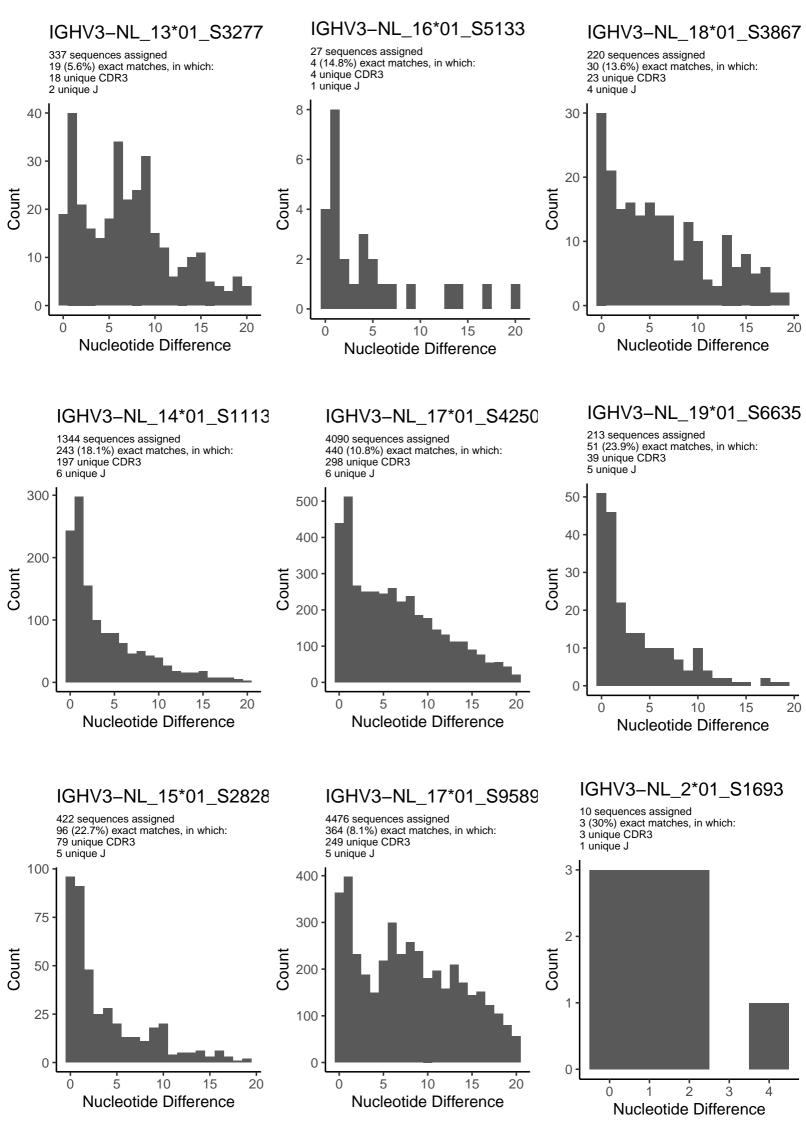
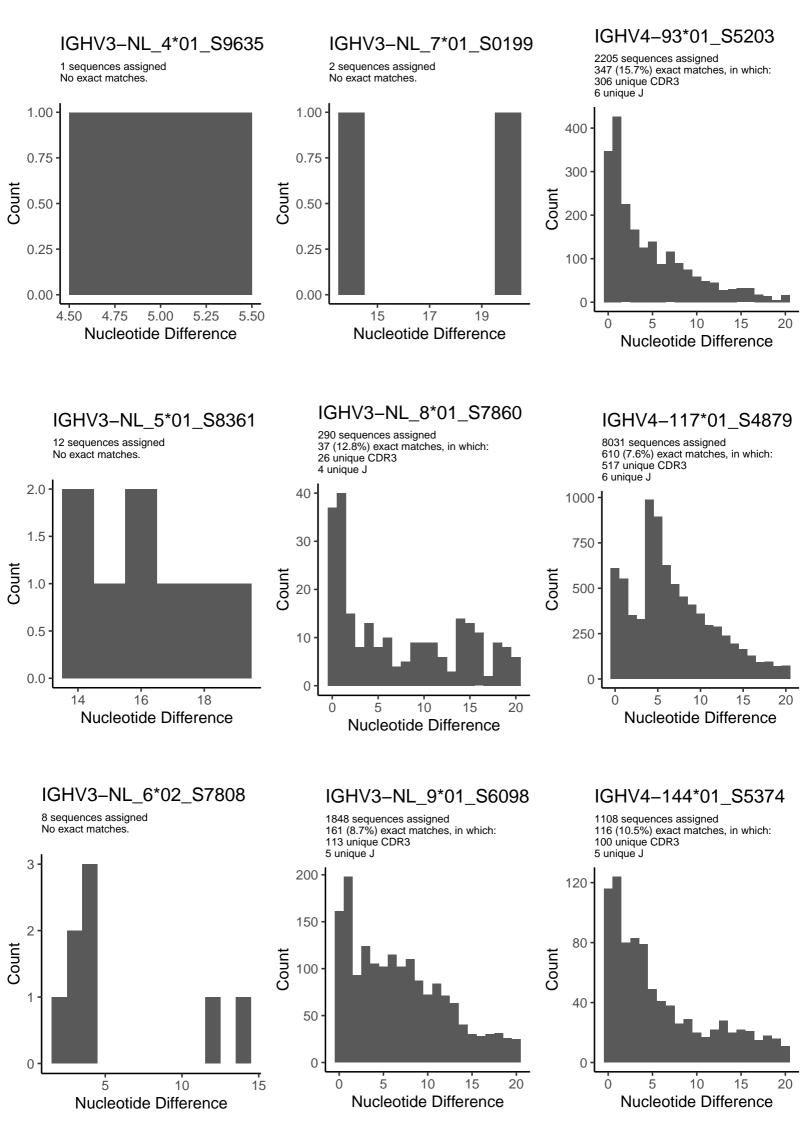


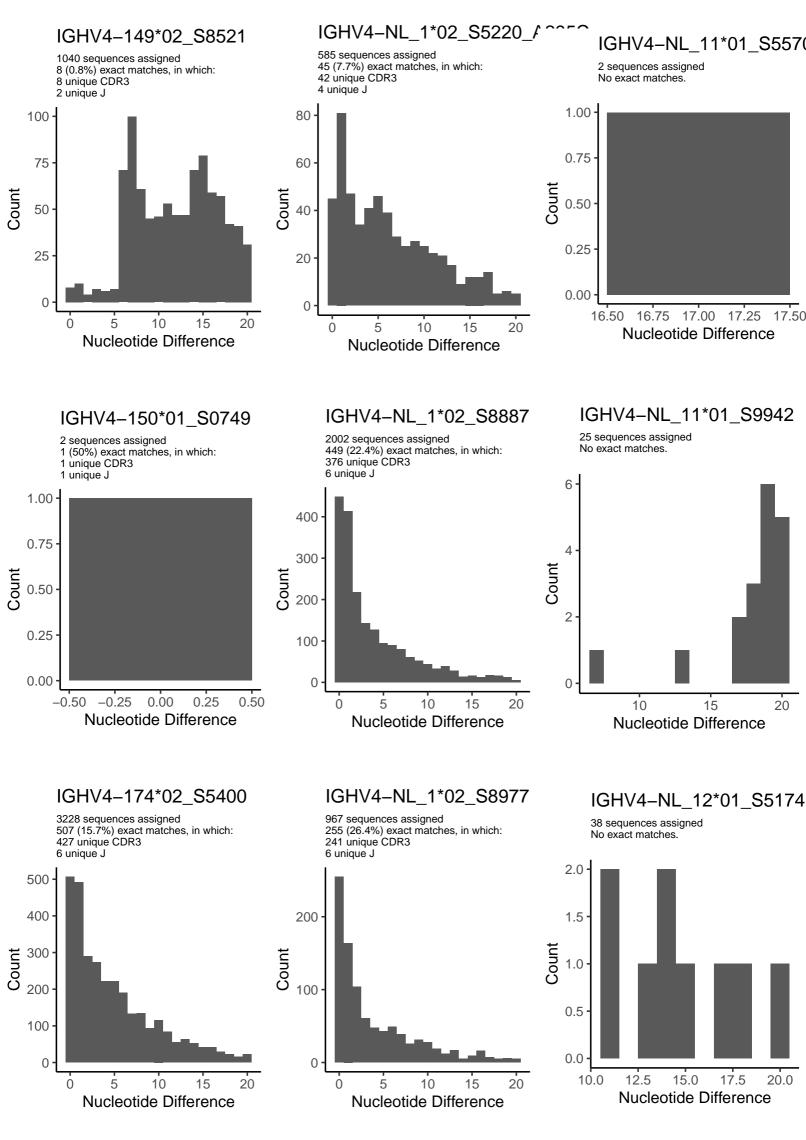
IGHV3-50*02_S9583 IGHV3-76*01_S4285 IGHV3-88*01_S9155 383 sequences assigned 6332 sequences assigned 12029 sequences assigned 383 (3.2%) exact matches, in which: 270 unique CDR3 43 (11.2%) exact matches, in which: 487 (7.7%) exact matches, in which: 37 unique CDR3 371 unique CDR3 4 unique J 6 unique J 6 unique J 600 1000 40 750 400 30 Count Count 500 200 250 10 0 0 0 10 5 15 15 0 5 10 20 10 20 0 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-52*01_S8160 IGHV3-83*02_S9518 IGHV3-94*01 S7982 241 sequences assigned 32 (13.3%) exact matches, in which: 164 sequences assigned 13 (7.9%) exact matches, in which: 207 sequences assigned 31 (15%) exact matches, in which: 21 unique CDR3 10 unique CDR3 27 unique CDR3 4 unique J 3 unique J 5 unique J 30 30 30 20 Count Count Count 20 10 10 10 0 0 0 10 15 20 10 15 20 10 15 0 5 0 0 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-73*01_S6942 IGHV3-87*01_S6311 IGHV3-100*01_S4205 420 sequences assigned 493 sequences assigned 12 sequences assigned 103 (24.5%) exact matches, in which: 38 (7.7%) exact matches, in which: No exact matches. 79 unique CDR3 28 unique CDR3 6 unique J 4 unique J 2.0 60 90 1.5 40 Count Count 1.0 20 0.5 30 0.0 0 0 20 10 15 0 10 15 20 0 10 15 20 Nucleotide Difference Nucleotide Difference **Nucleotide Difference**

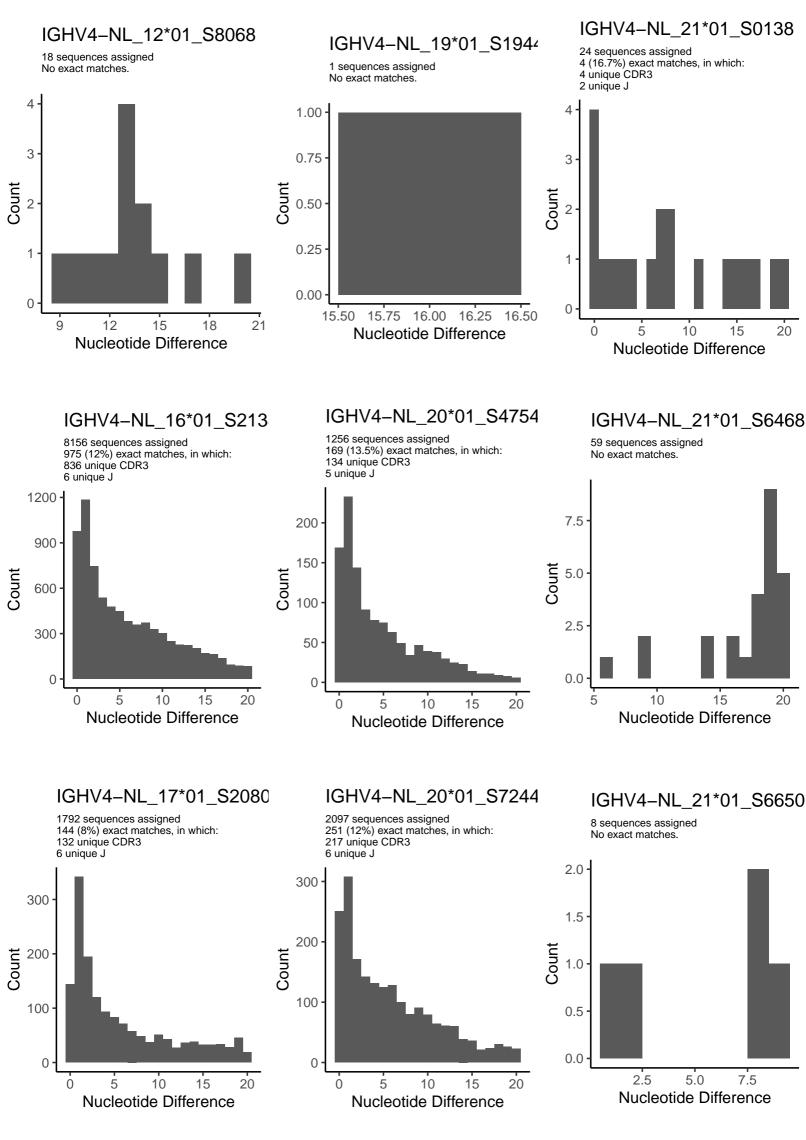


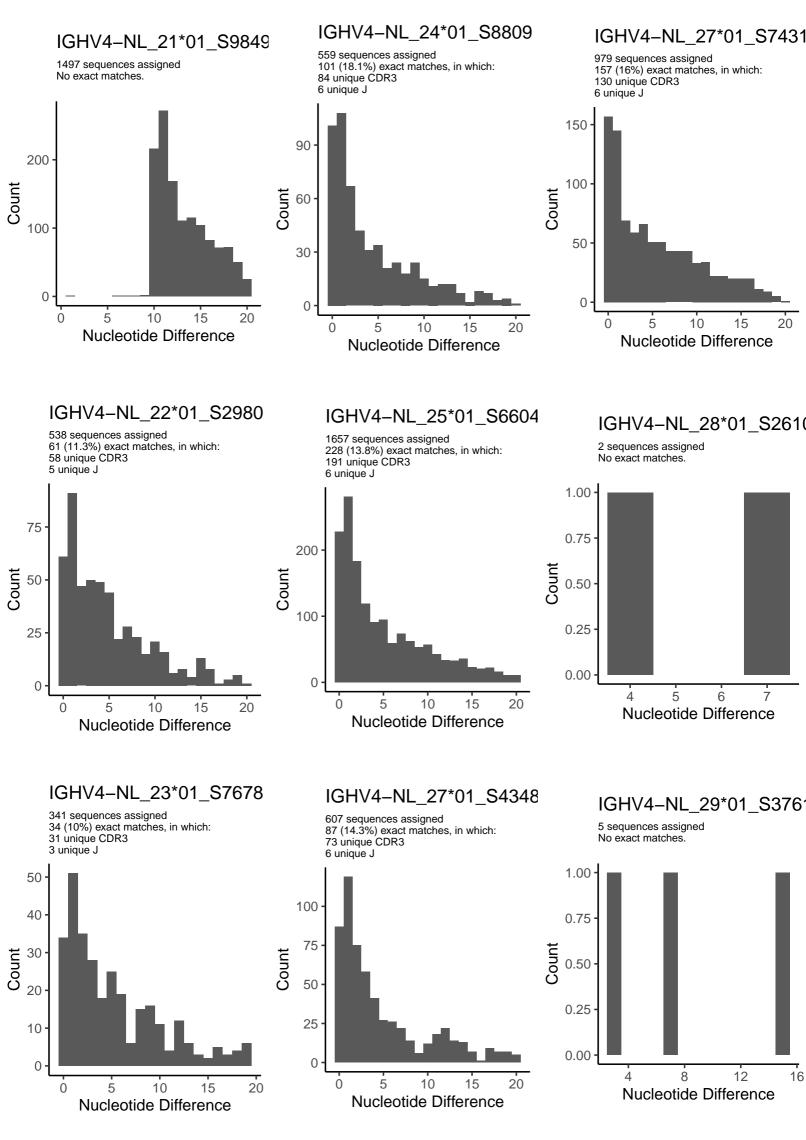


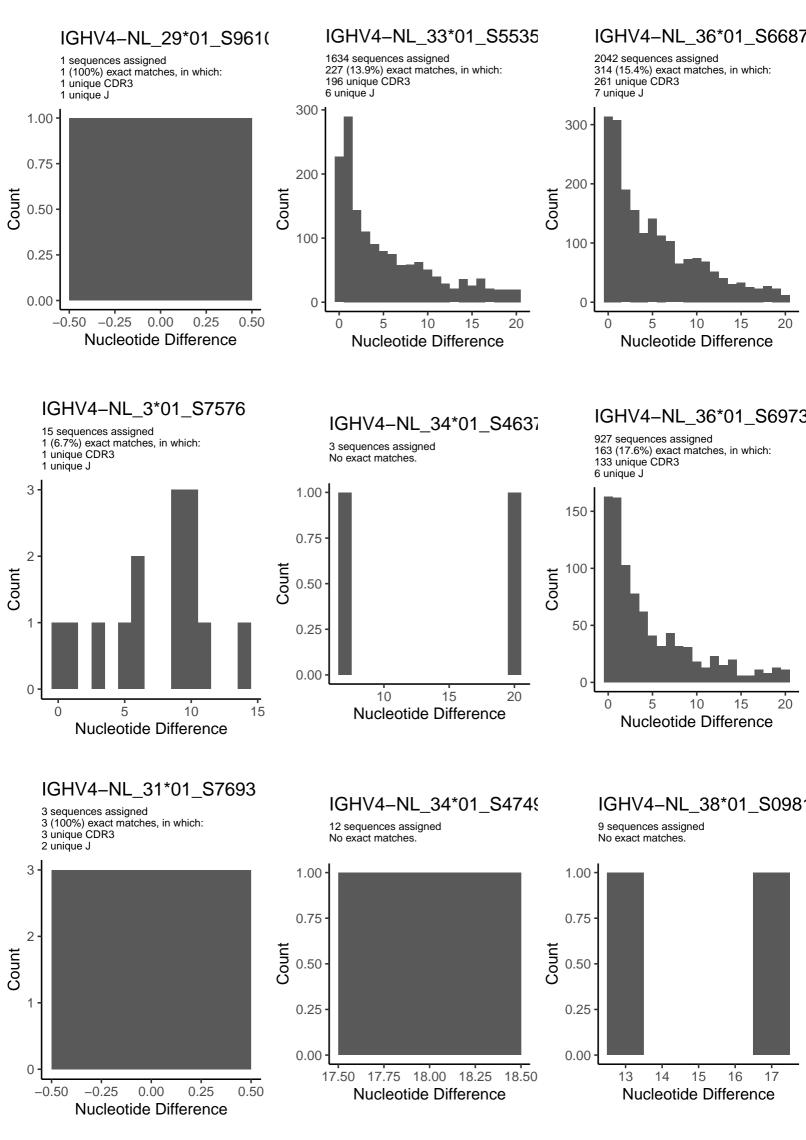


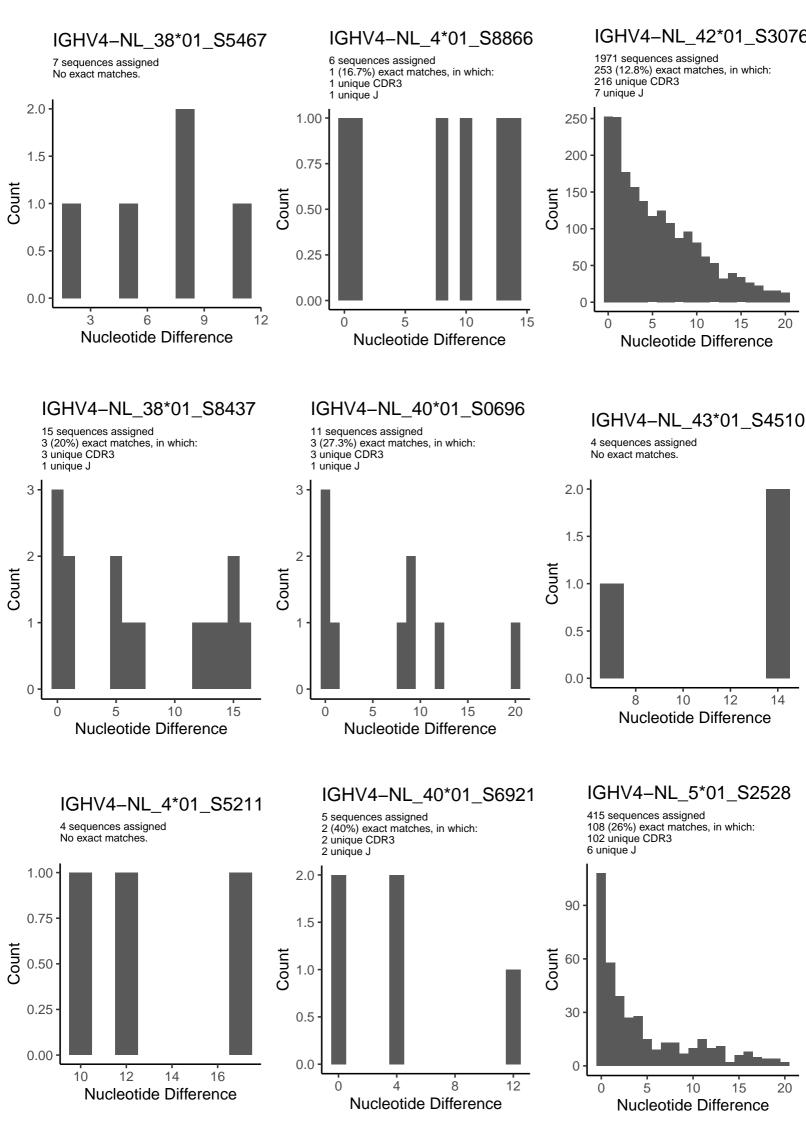


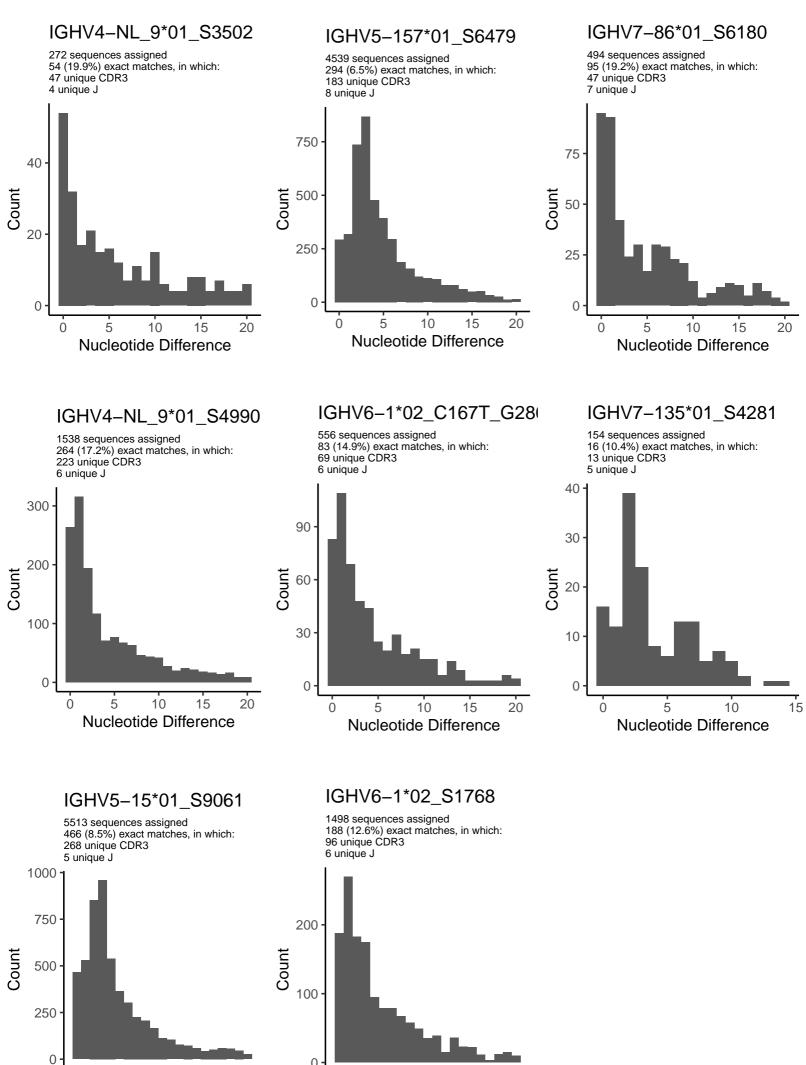












Nucleotide Difference

Nucleotide Difference

