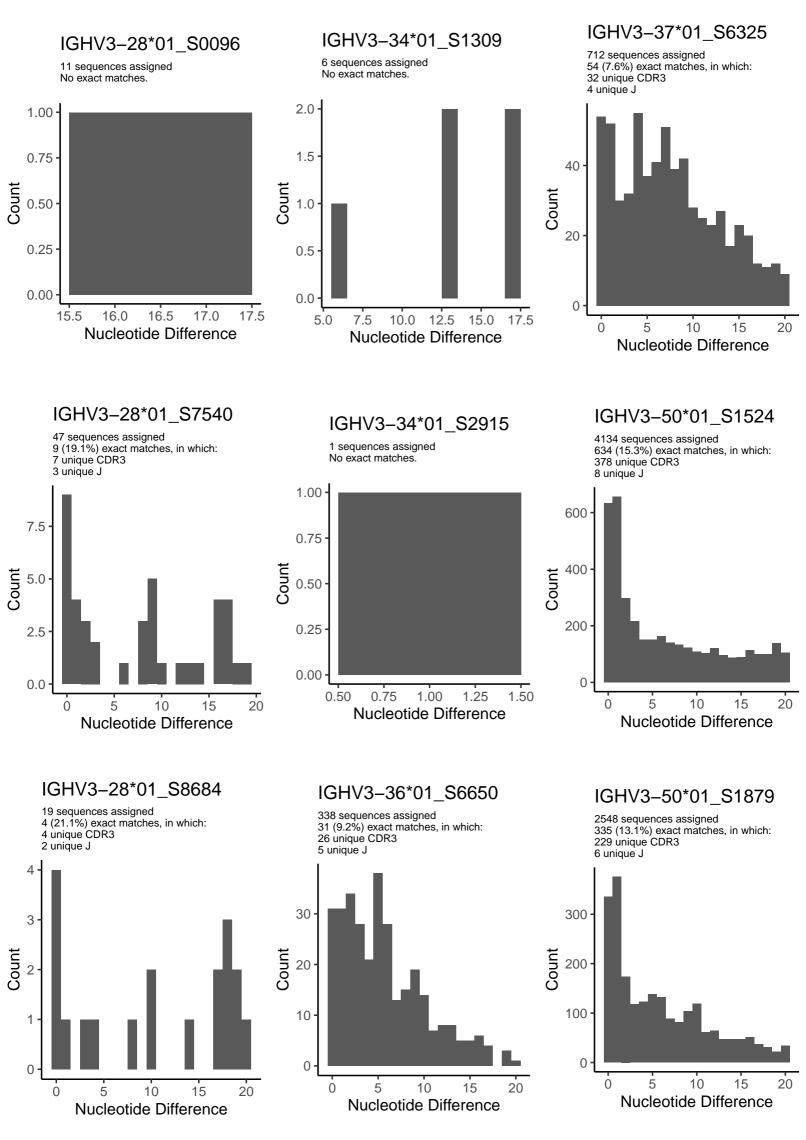
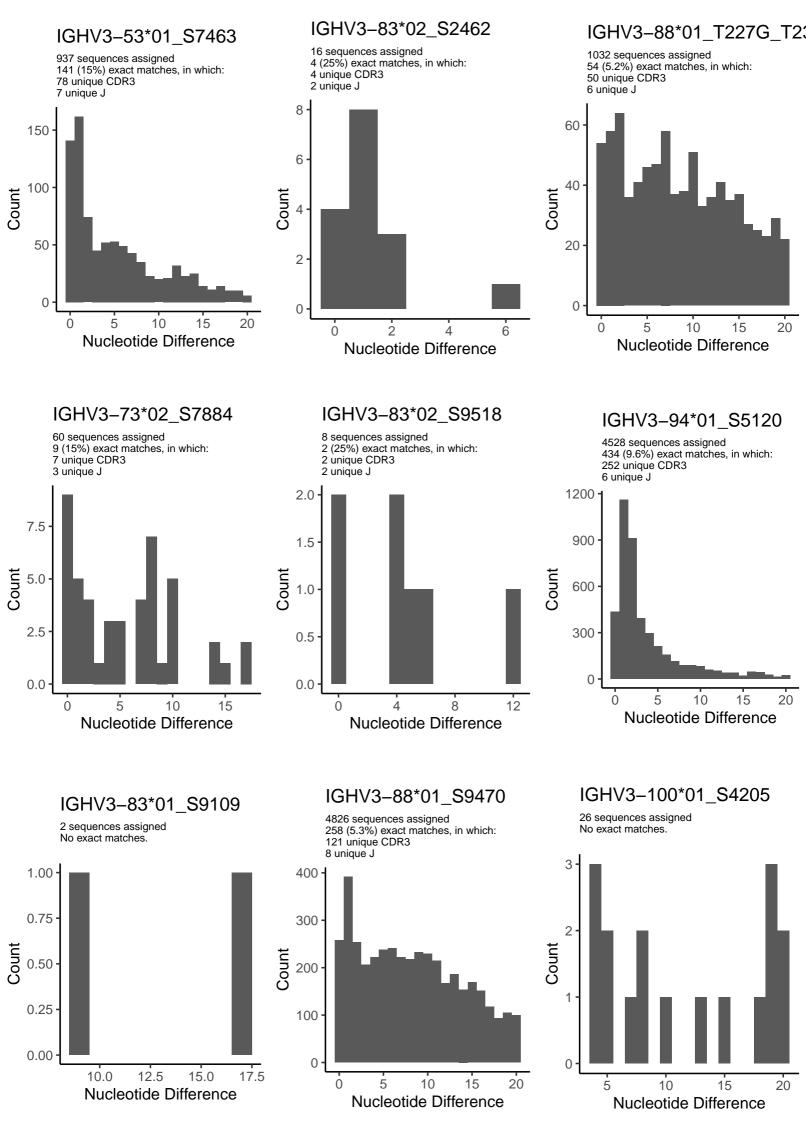
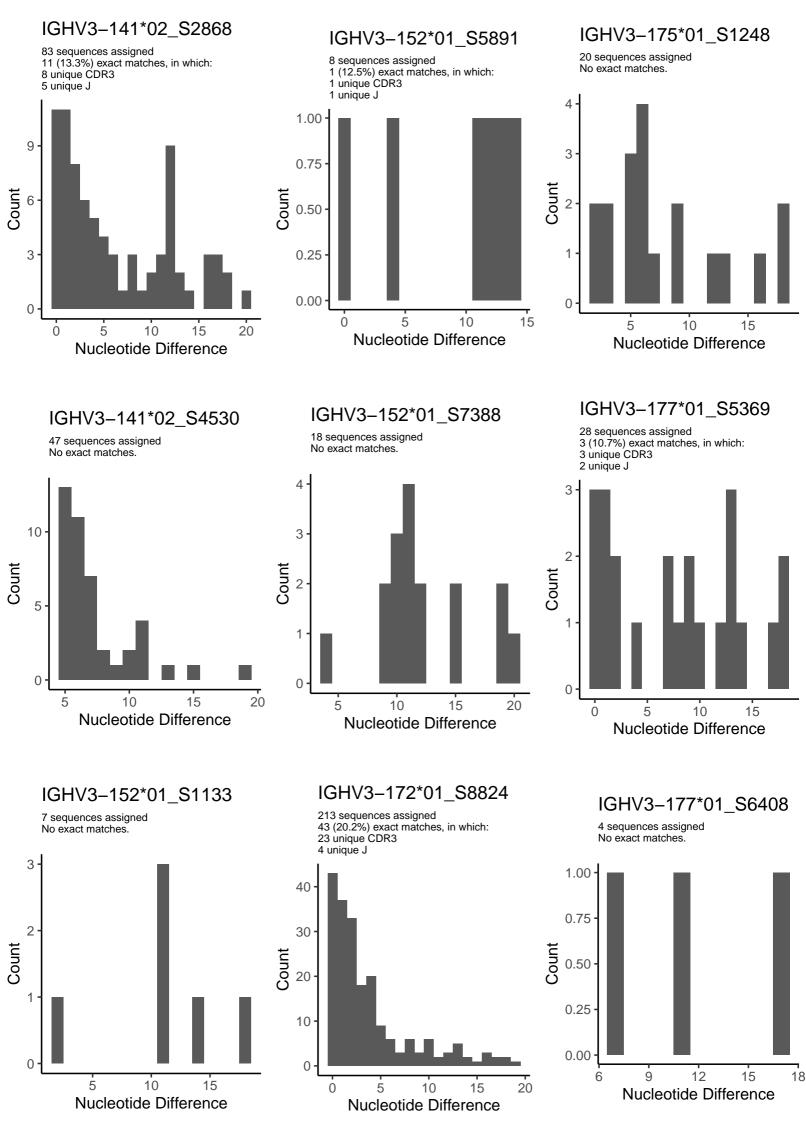


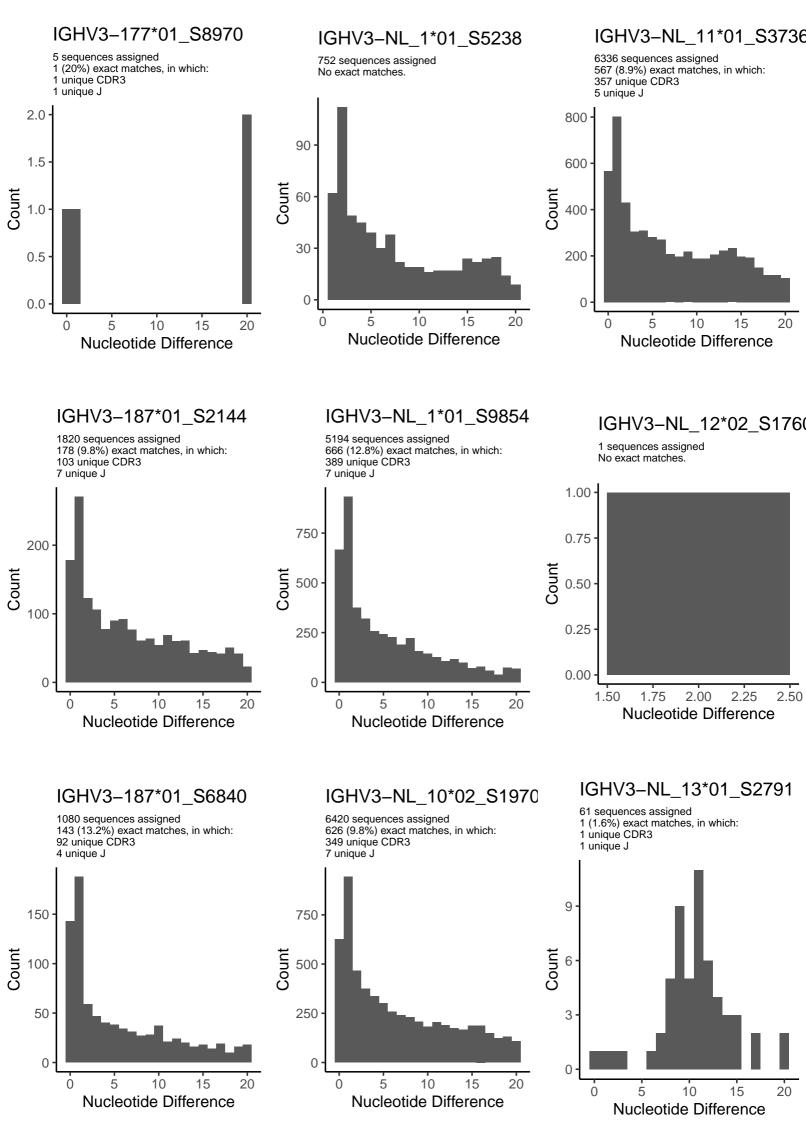
IGHV2-7*02_S4285 IGHV2-69*02_S0779 IGHV2-NL_1*01_S7874 3196 sequences assigned 577 sequences assigned 2568 sequences assigned 320 (10%) exact matches, in which: 84 (14.6%) exact matches, in which: 295 (11.5%) exact matches, in which: 188 unique CDR3 38 unique CDR3 148 unique CDR3 7 unique J 3 unique J 7 unique J 500 120 400 400 90 300 300 Count 60 200 200 30 100 100 0 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-7*02 S4285 G28 IGHV2-118*01_S4531 IGHV3-5*01_S4091 881 sequences assigned 123 (14%) exact matches, in which: 974 sequences assigned 77 (7.9%) exact matches, in which: 797 sequences assigned 8 (1%) exact matches, in which: 107 unique CDR3 6 unique CDR3 40 unique CDR3 6 unique J 5 unique J 4 unique J 125 100 100 100 75 75 Count Count Count 50 50 50 25 25 0 0 0 15 20 5 10 15 20 20 0 5 10 0 0 5 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-9*01 S8777 IGHV2-69*01_S2332 IGHV2-118*01_S6364 329 sequences assigned 697 sequences assigned 2153 sequences assigned 30 (9.1%) exact matches, in which: 92 (13.2%) exact matches, in which: 240 (11.1%) exact matches, in which: 22 unique CDR3 43 unique CDR3 111 unique CDR3 5 unique J 7 unique J 8 unique J 400 30 100 300 Count Count 200 50 10 100 25 0 0 0 10 5 10 15 20 15 20 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

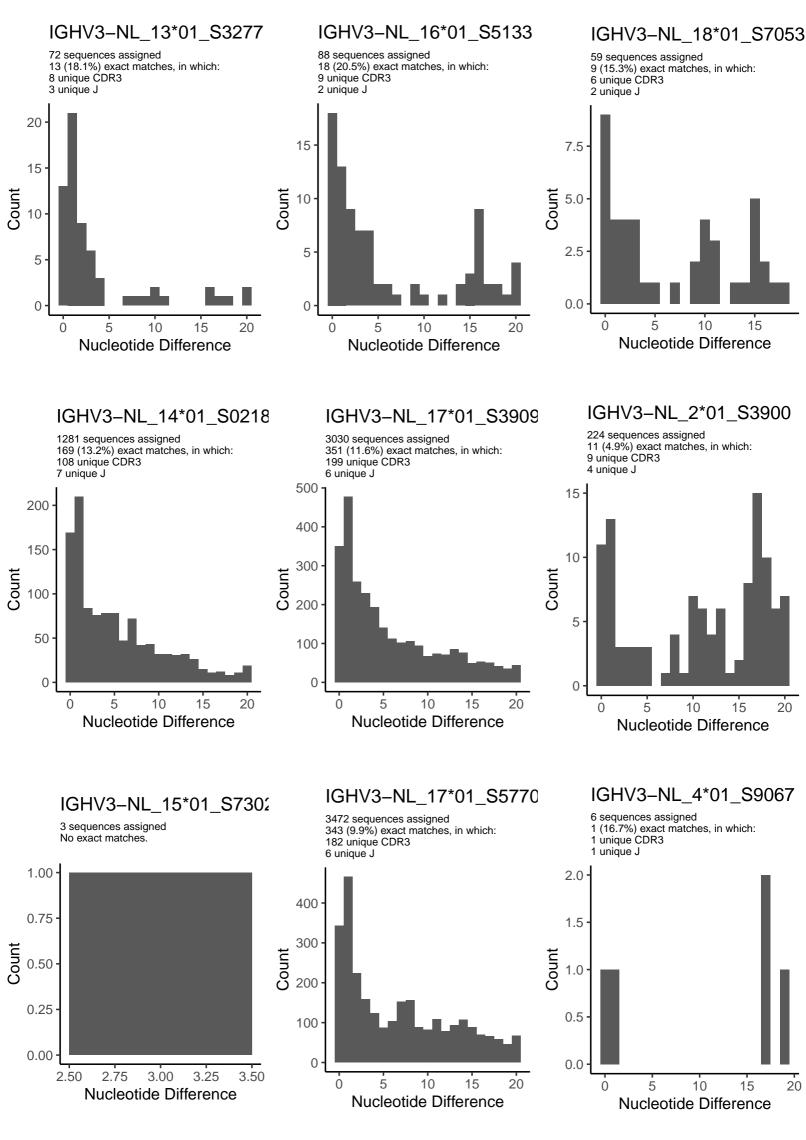


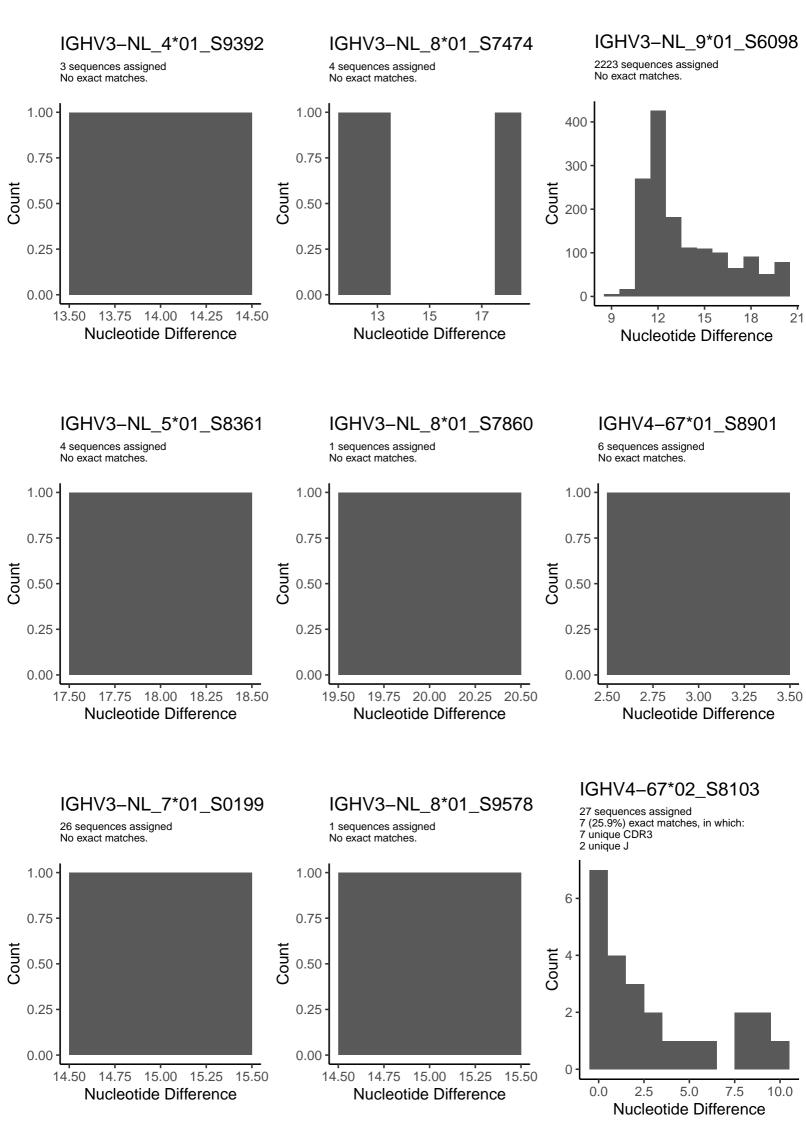


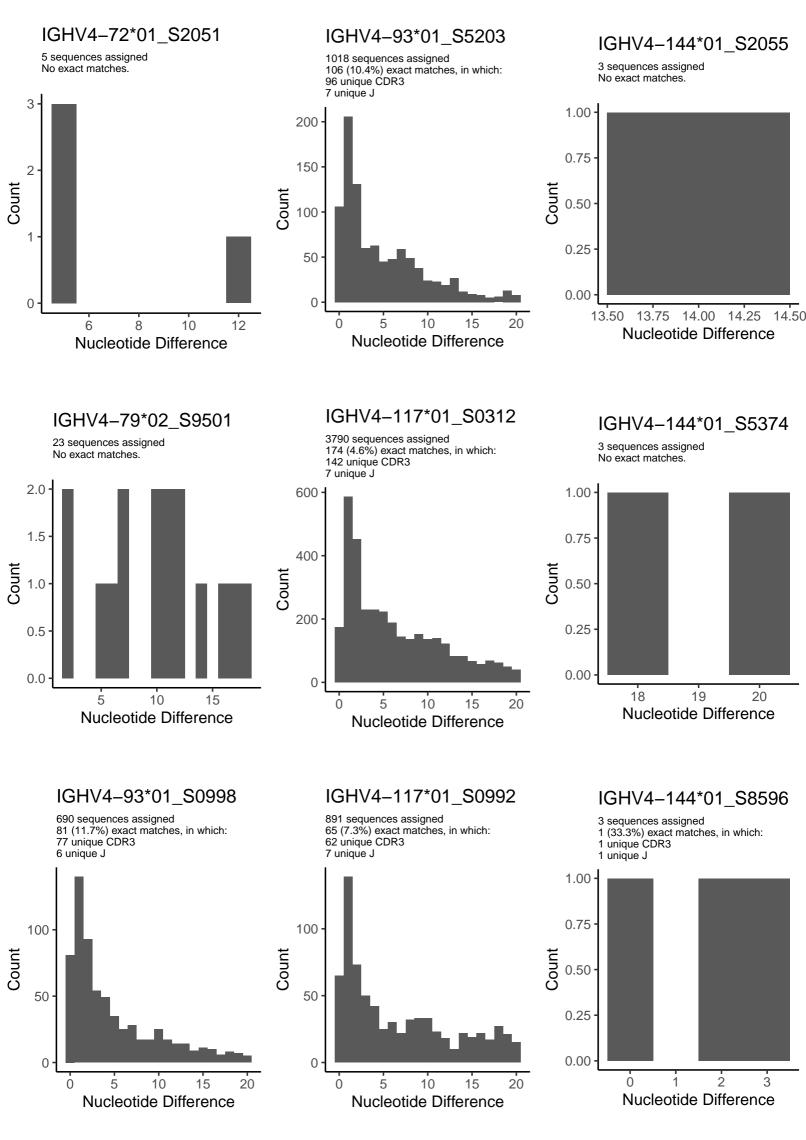
IGHV3-100*01_S4375 IGHV3-122*01_S8388 IGHV3-128*02_S0204 752 sequences assigned 91 (12.1%) exact matches, in which: 172 sequences assigned 796 sequences assigned 14 (8.1%) exact matches, in which: 75 (9.4%) exact matches, in which: 41 unique CDR3 9 unique CDR3 53 unique CDR3 4 unique J 5 unique J 2 unique J 30 90 100 20 Count Count 60 50 10 30 0 0 0 5 10 15 20 0 0 10 10 15 5 15 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-120*01_S4231 IGHV3-127*01_S5171 IGHV3-128*02 S1569 51 sequences assigned 3 (5.9%) exact matches, in which: 533 sequences assigned 180 sequences assigned 28 (15.6%) exact matches, in which: 83 (15.6%) exact matches, in which: 3 unique CDR3 16 unique CDR3 50 unique CDR3 1 unique J 3 unique J 5 unique J 40 90 6 30 Count Count 60 20 30 2 10 0 0 0 10 15 15 20 0 20 0 10 10 15 20 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-141*01 S2525 IGHV3-122*01_S5299 IGHV3-127*01_S5510 67 sequences assigned 752 sequences assigned 1185 sequences assigned 15 (22.4%) exact matches, in which: 95 (8%) exact matches, in which: 121 (16.1%) exact matches, in which: 10 unique CDR3 75 unique CDR3 59 unique CDR3 2 unique J 8 unique J 6 unique J 150 15 100 100 Count 50 50 5 0 0 0 10 15 20 5 10 20 15 0 10 15 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

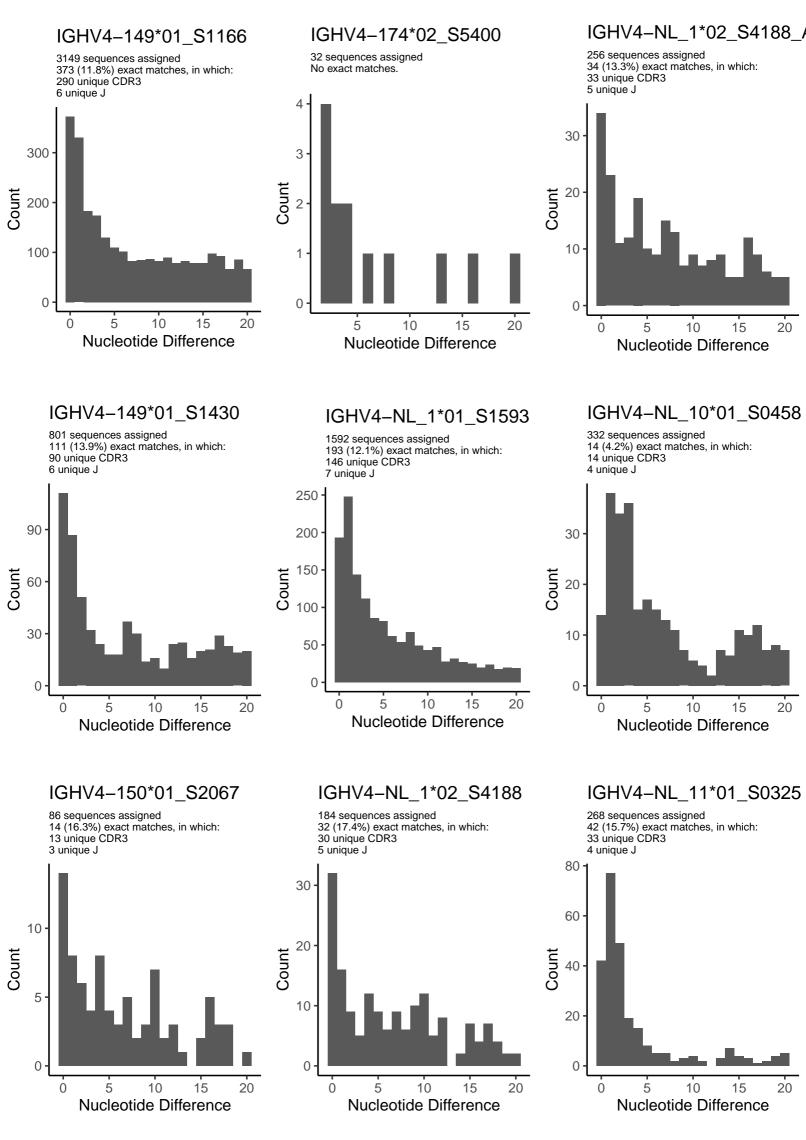


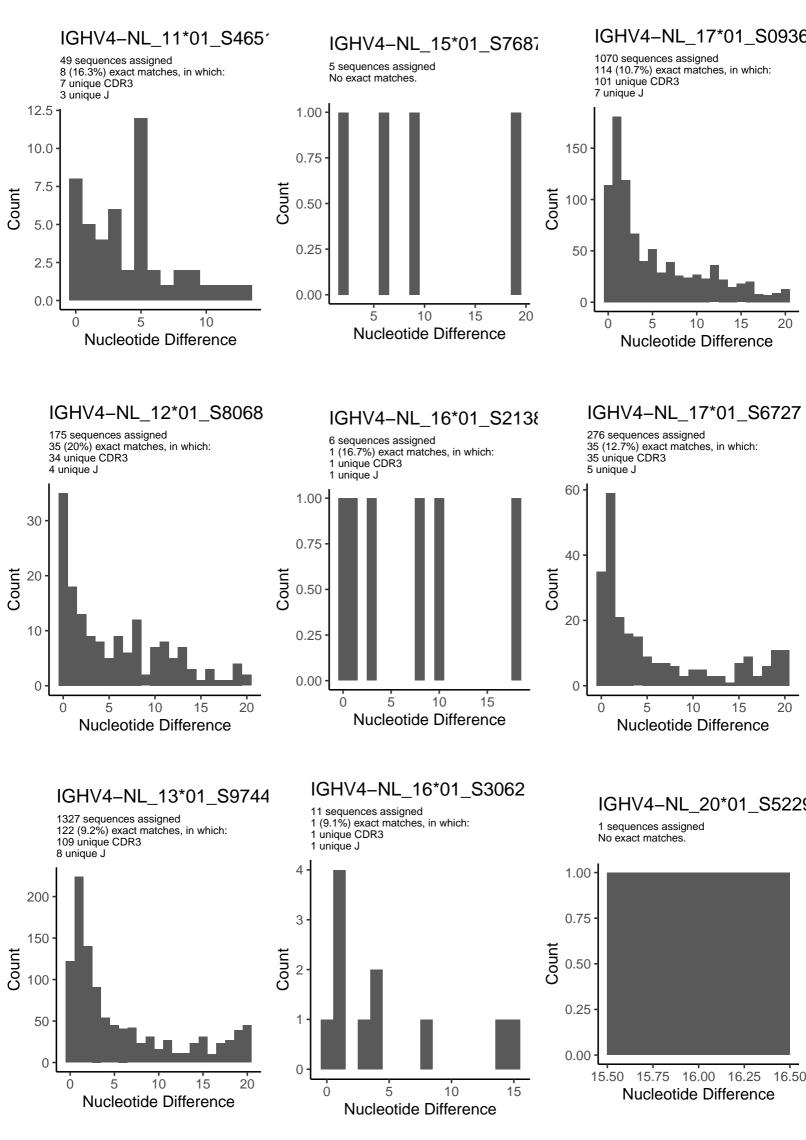


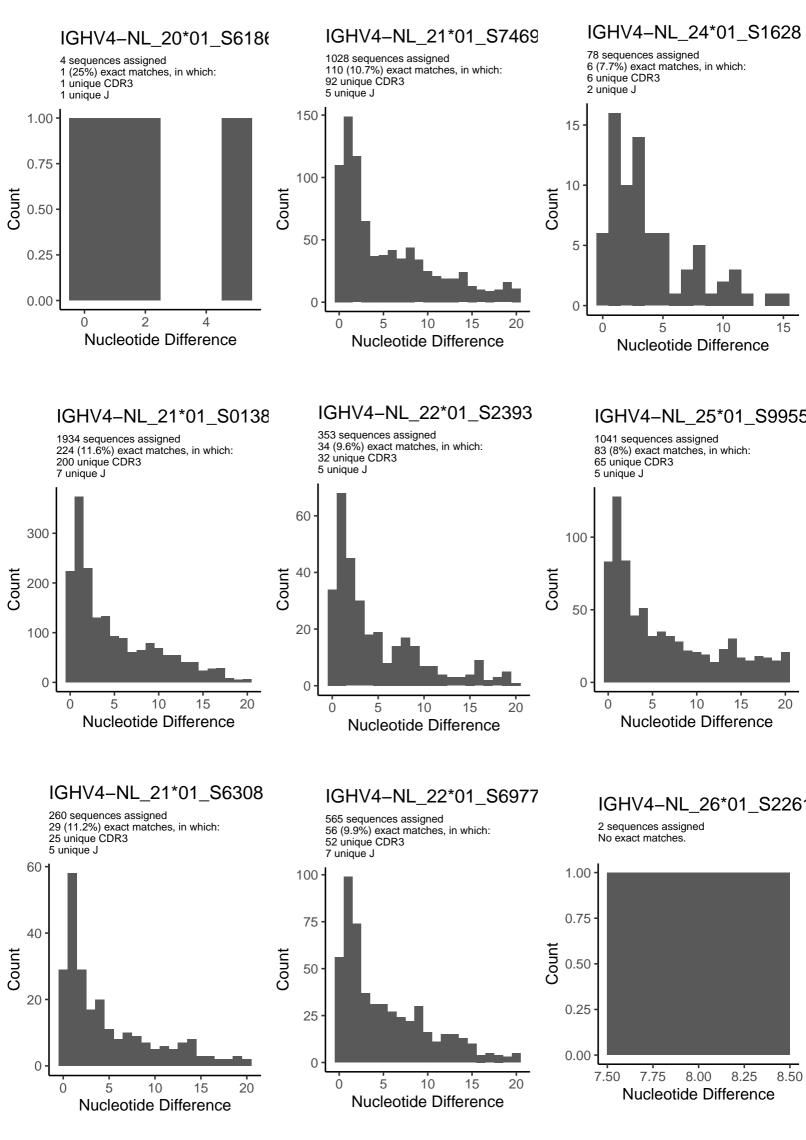


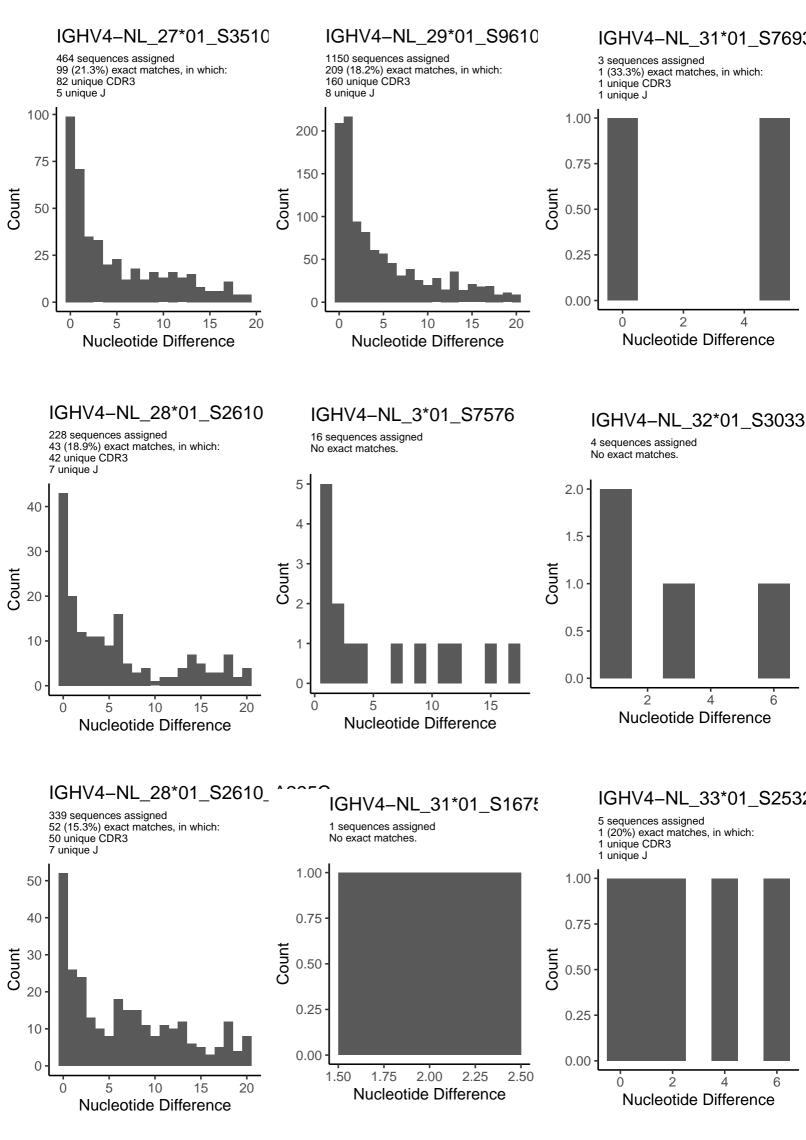


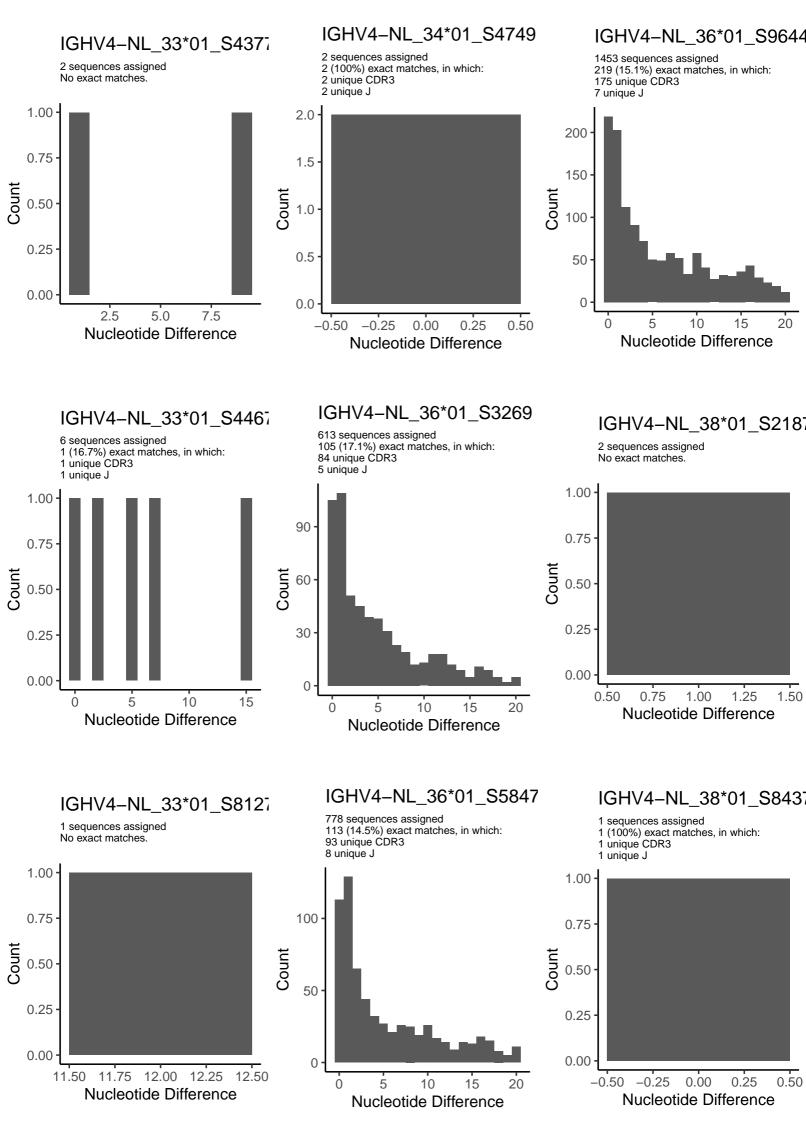


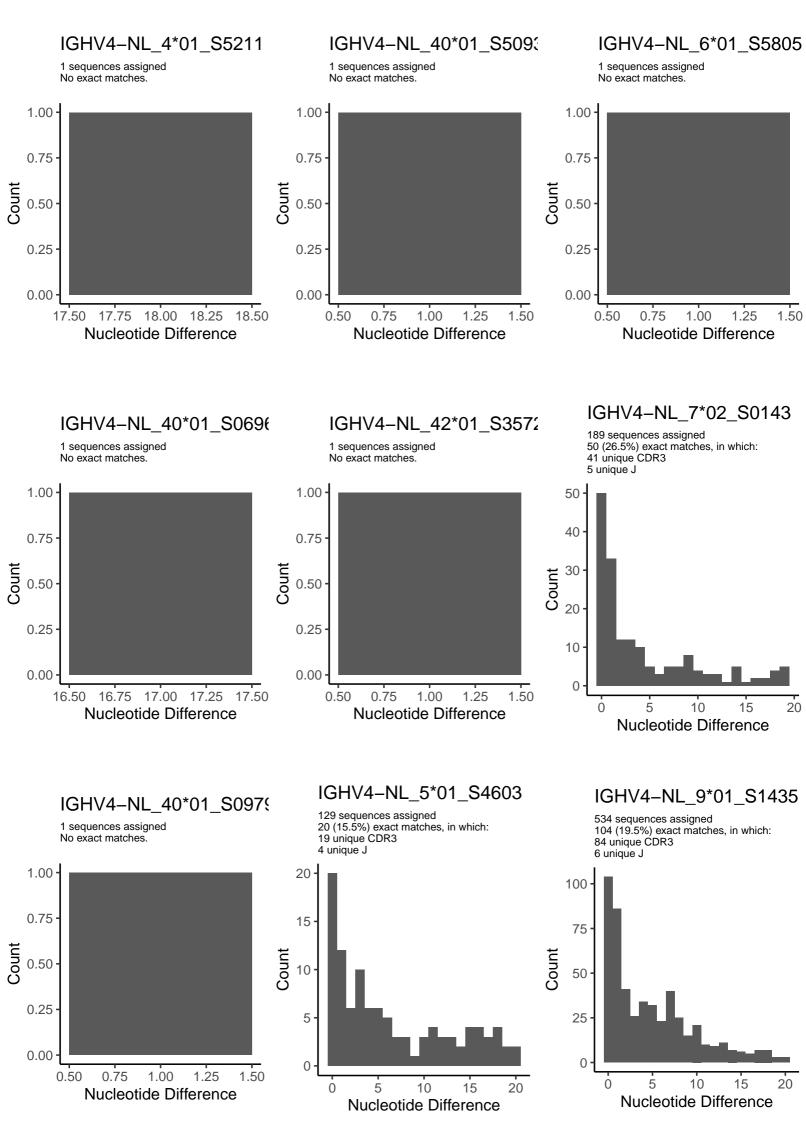












IGHV4-NL_9*01_S4906 IGHV5-157*01_S6479 442 sequences assigned 3195 sequences assigned 51 (11.5%) exact matches, in which: 564 (17.7%) exact matches, in which: 42 unique CDR3 254 unique CDR3 5 unique J 7 unique J 600 40 30 Count 400 20 200 10 0 0 0 5 10 0 5 10 15 **Nucleotide Difference** Nucleotide Difference IGHV5-15*01_S9061 IGHV7-86*01_S9209 1211 sequences assigned 107 (8.8%) exact matches, in which: 1655 sequences assigned 261 (15.8%) exact matches, in which: 127 unique CDR3 46 unique CDR3 5 unique J 7 unique J 150 300 100 200 Count Count 50 100

15

20

