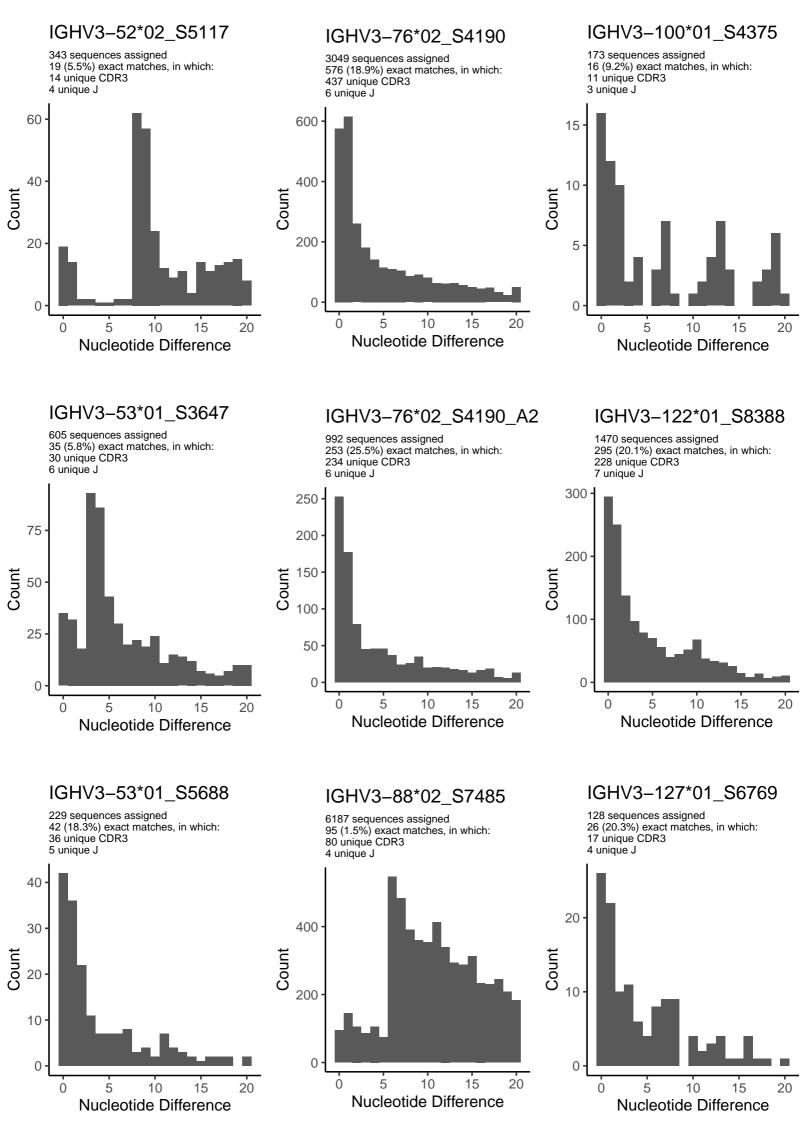
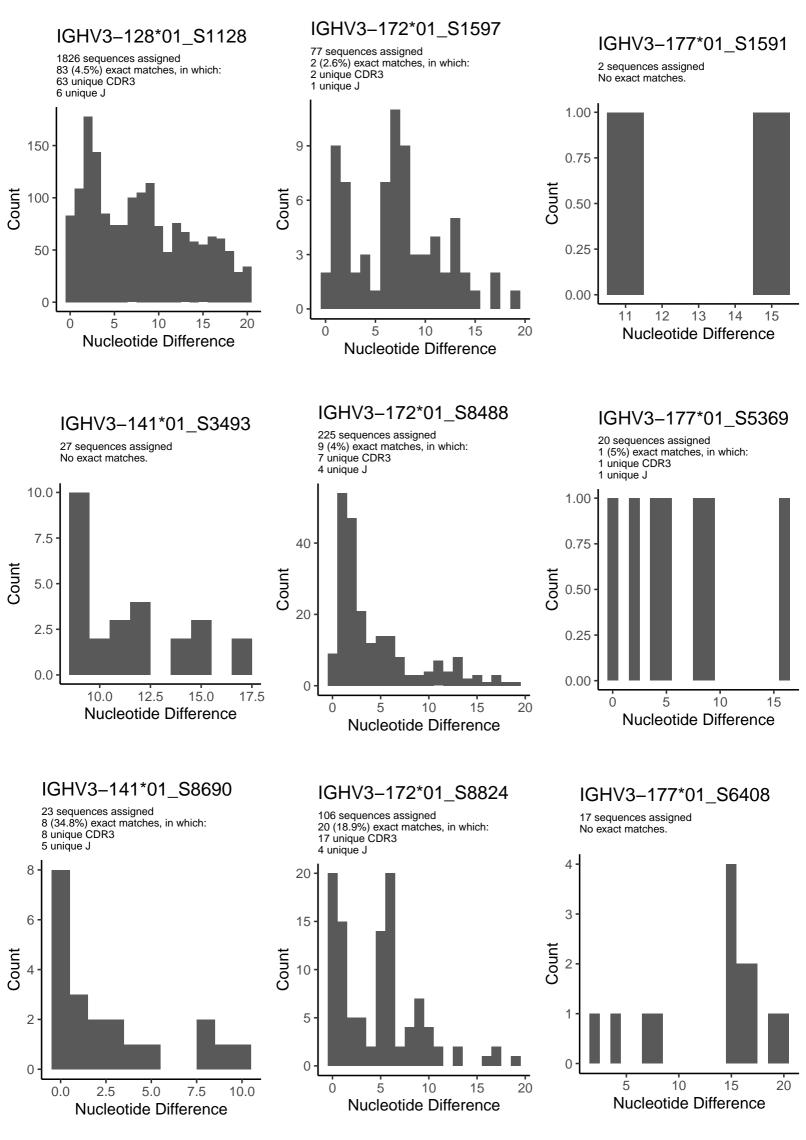
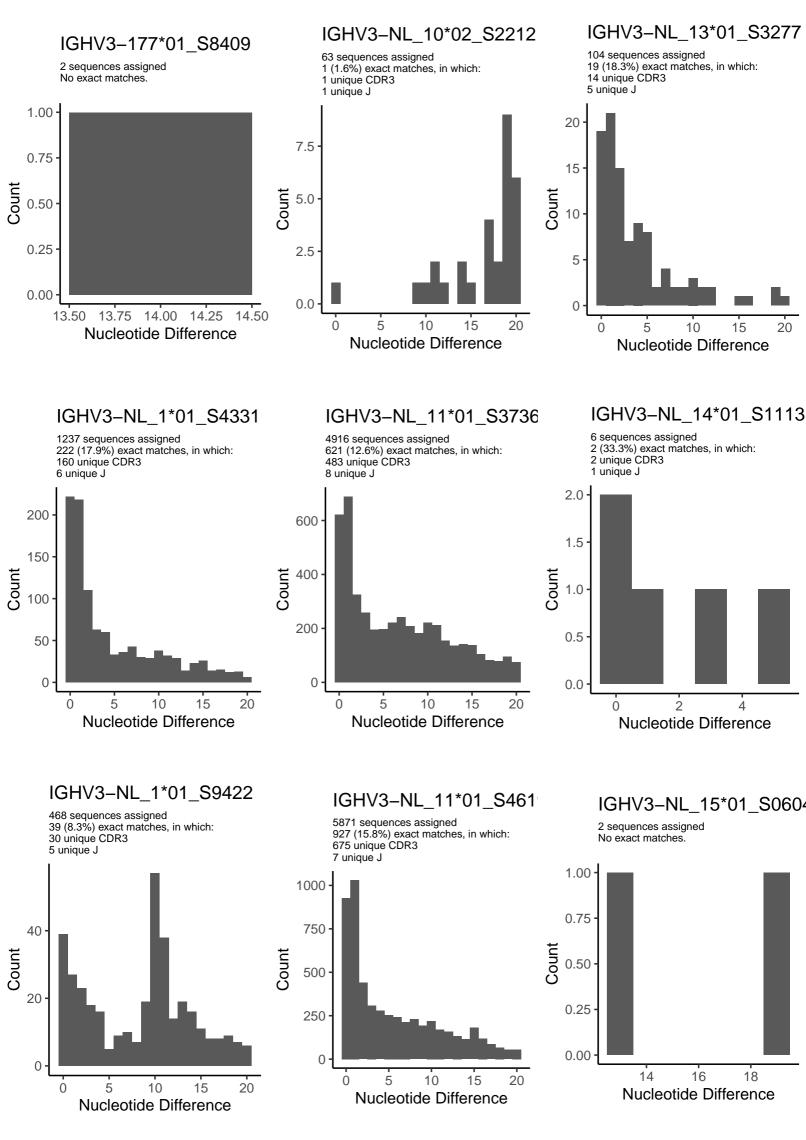
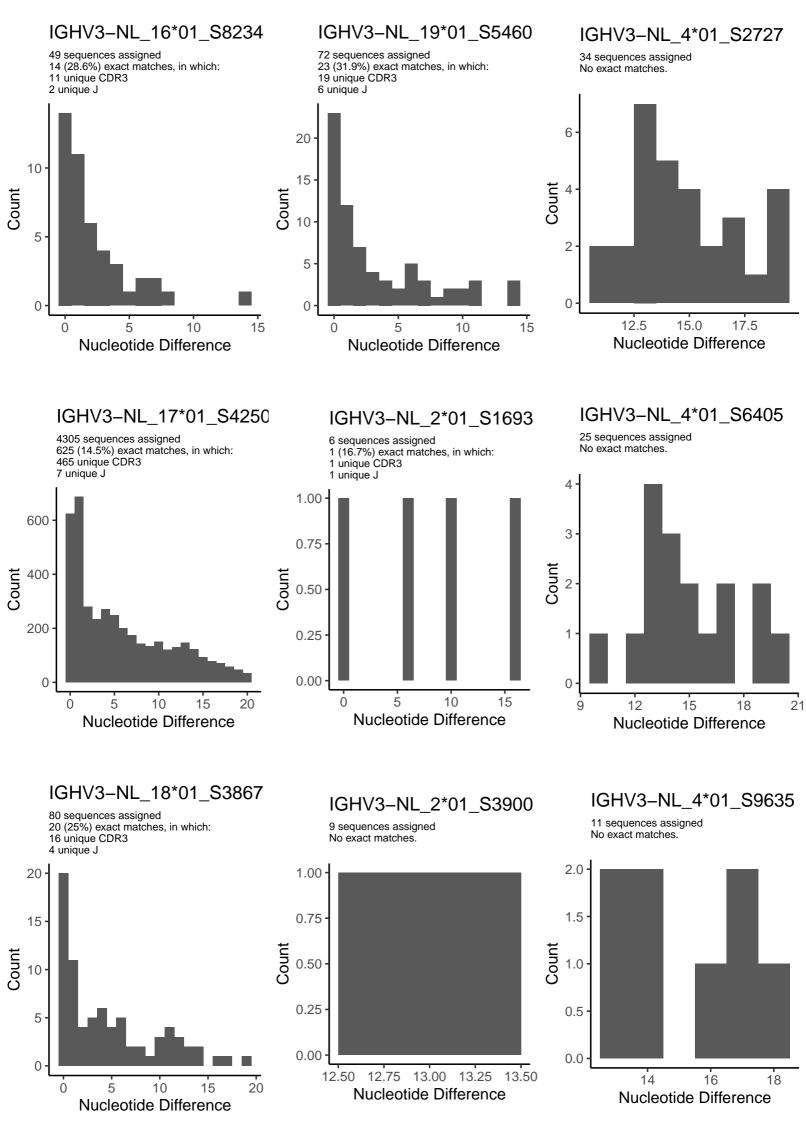


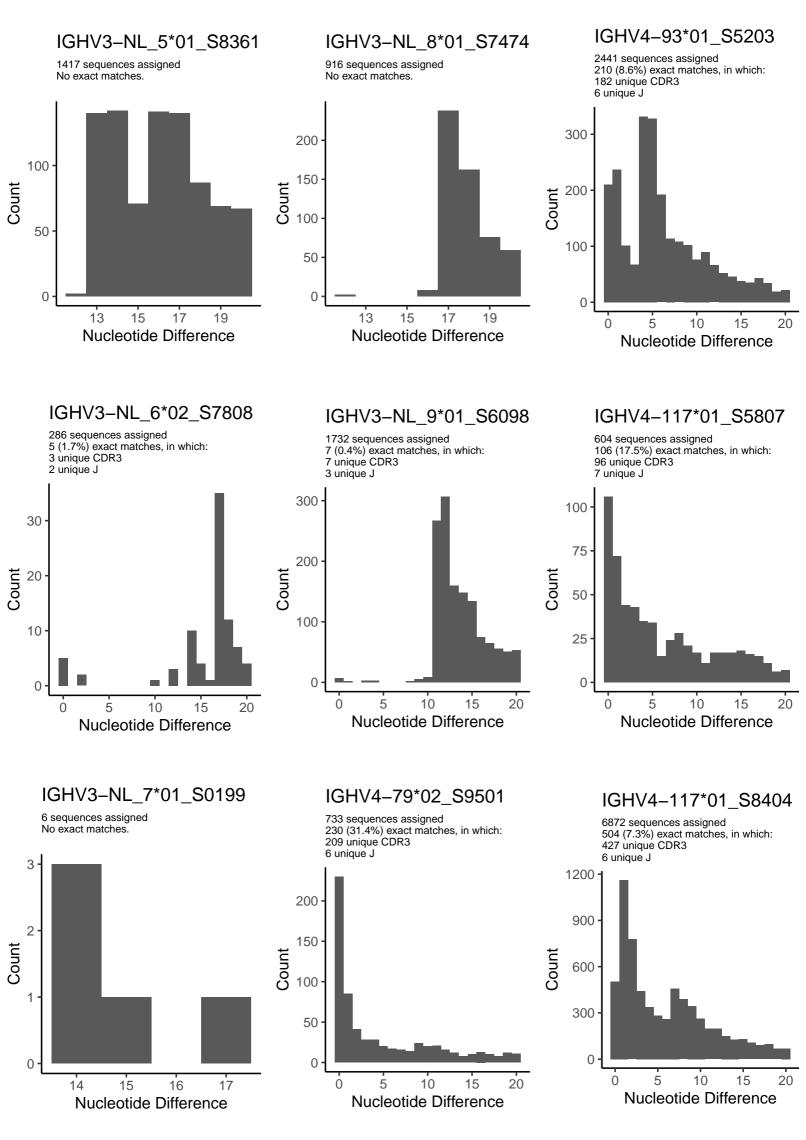
IGHV2-69*01_G289T IGHV2-NL_2*01_S8873 IGHV3-37*01_S4420 3009 sequences assigned 32 (1.1%) exact matches, in which: 32 unique CDR3 9 sequences assigned 59 sequences assigned 1 (11.1%) exact matches, in which: No exact matches. unique CDR3 5 unique J 1 unique J 1.00 400 7.5 0.75 300 Count Count 5.0 0.50 200 0.25 100 0.0 0.00 0 10 15 20 10 15 5 10 15 20 0 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV2-NL_1*01_S5779 IGHV3-28*01_S7540 IGHV3-37*01_S6630 1103 sequences assigned 140 (12.7%) exact matches, in which: 47 sequences assigned 280 sequences assigned 10 (21.3%) exact matches, in which: No exact matches. 98 unique CDR3 7 unique CDR3 6 unique J 3 unique J 10.0 150 20 7.5 Count 100 5.0 10 50 2.5 0.0 0 20 5 15 20 10 10 15 10 15 20 0 0 5 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-36*01_S7141 IGHV2-NL_1*01_S9725 IGHV3-50*01_S1879 16 sequences assigned 1962 sequences assigned 2 (12.5%) exact matches, in which: 5949 sequences assigned 142 (7.2%) exact matches, in which: 2 unique CDR3 573 (9.6%) exact matches, in which: 97 unique CDR3 441 unique CDR3 1 unique J 6 unique J 8 unique J 1200 150 900 3 Count Count 100 600 2 300 50 0 0 0 10 15 10 20 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

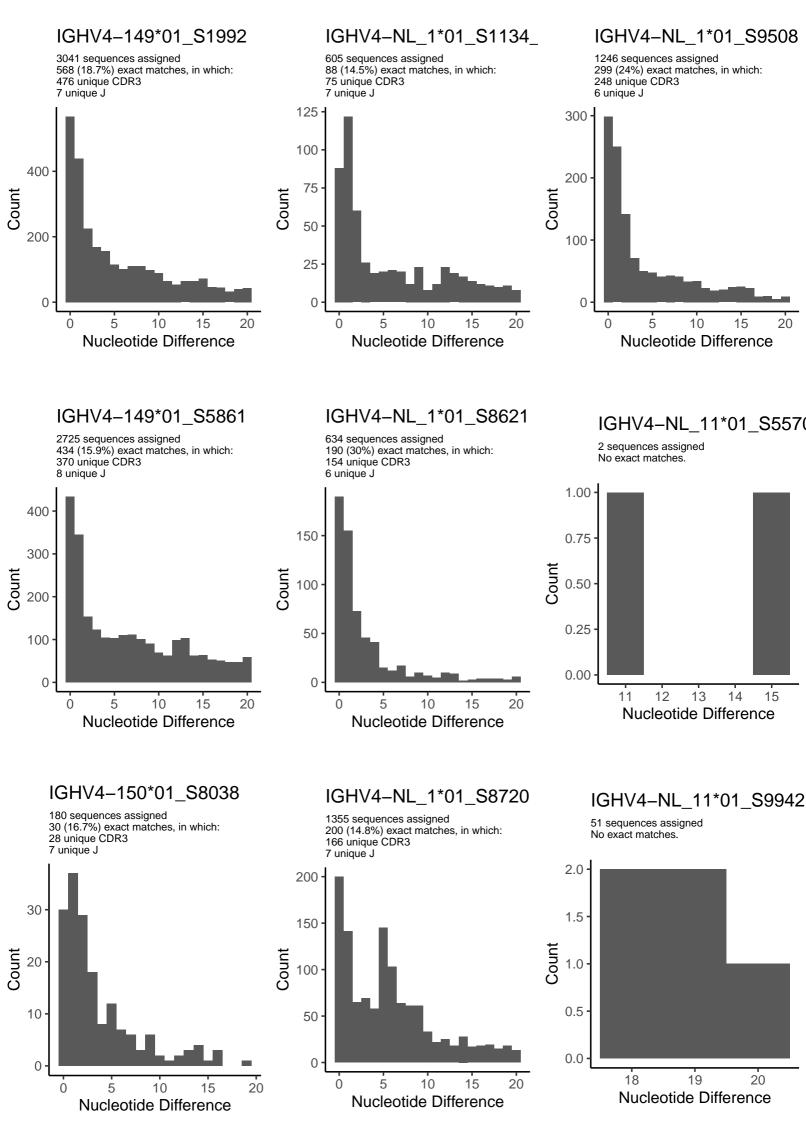


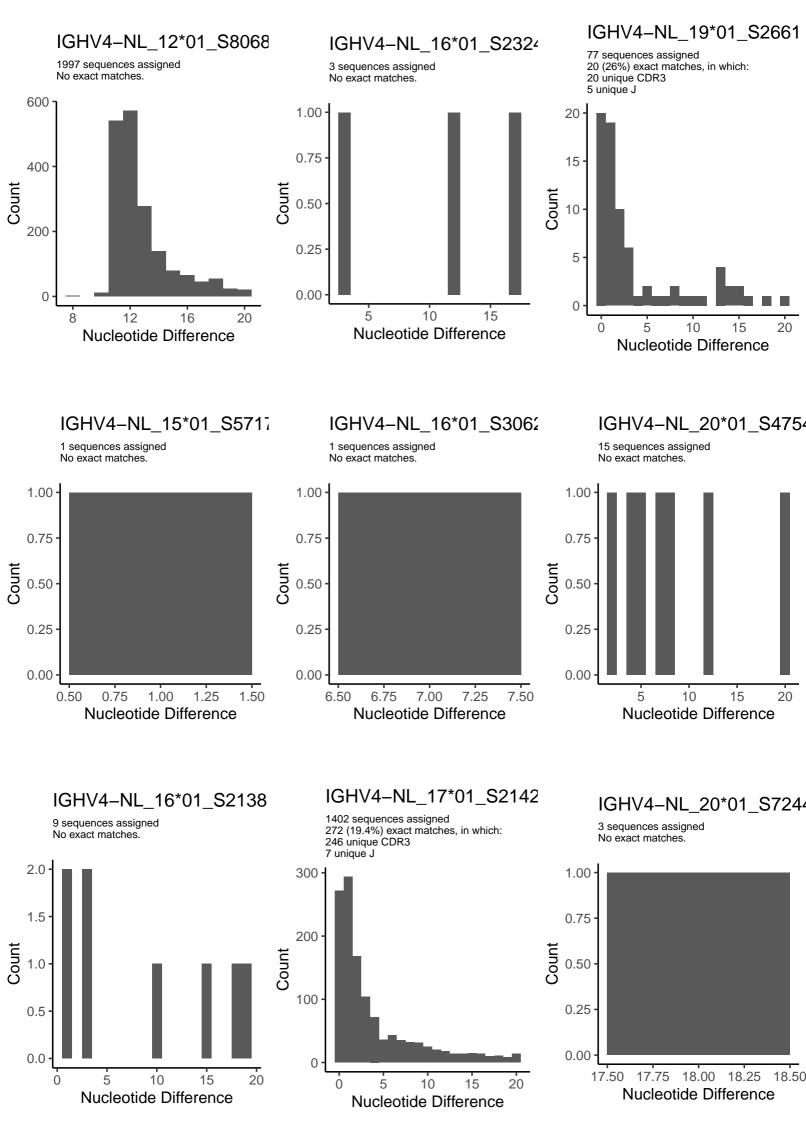


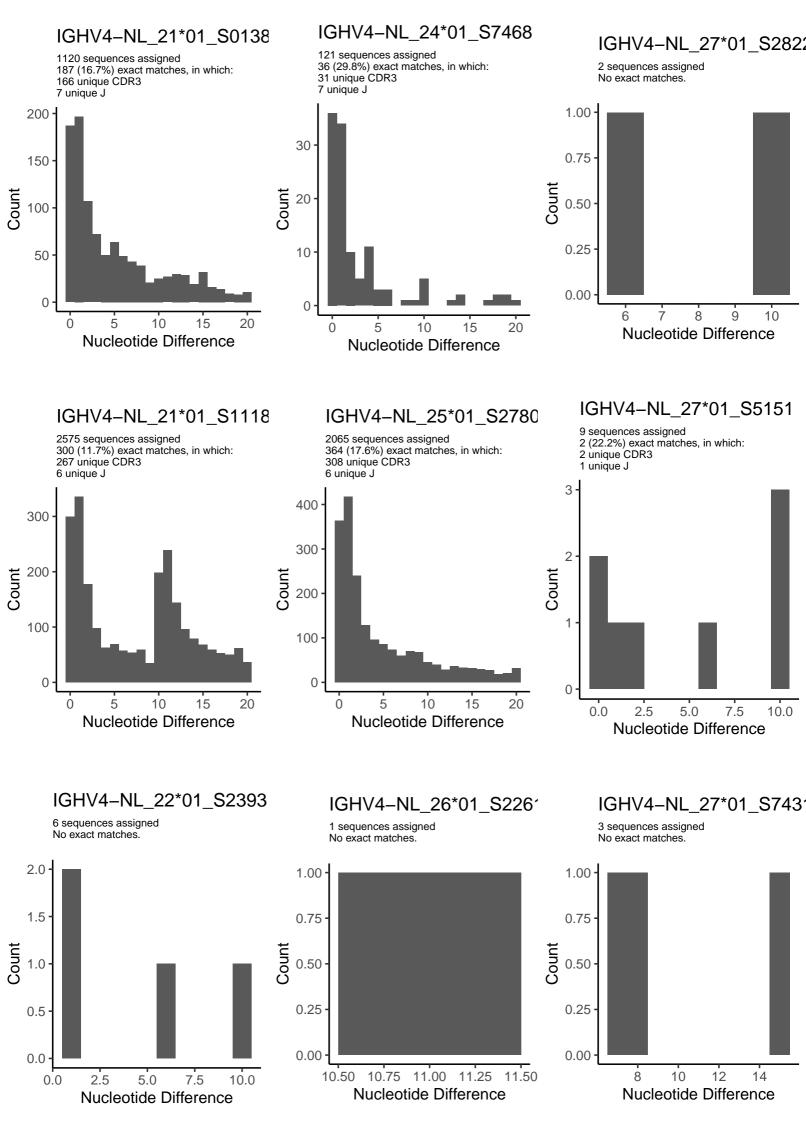


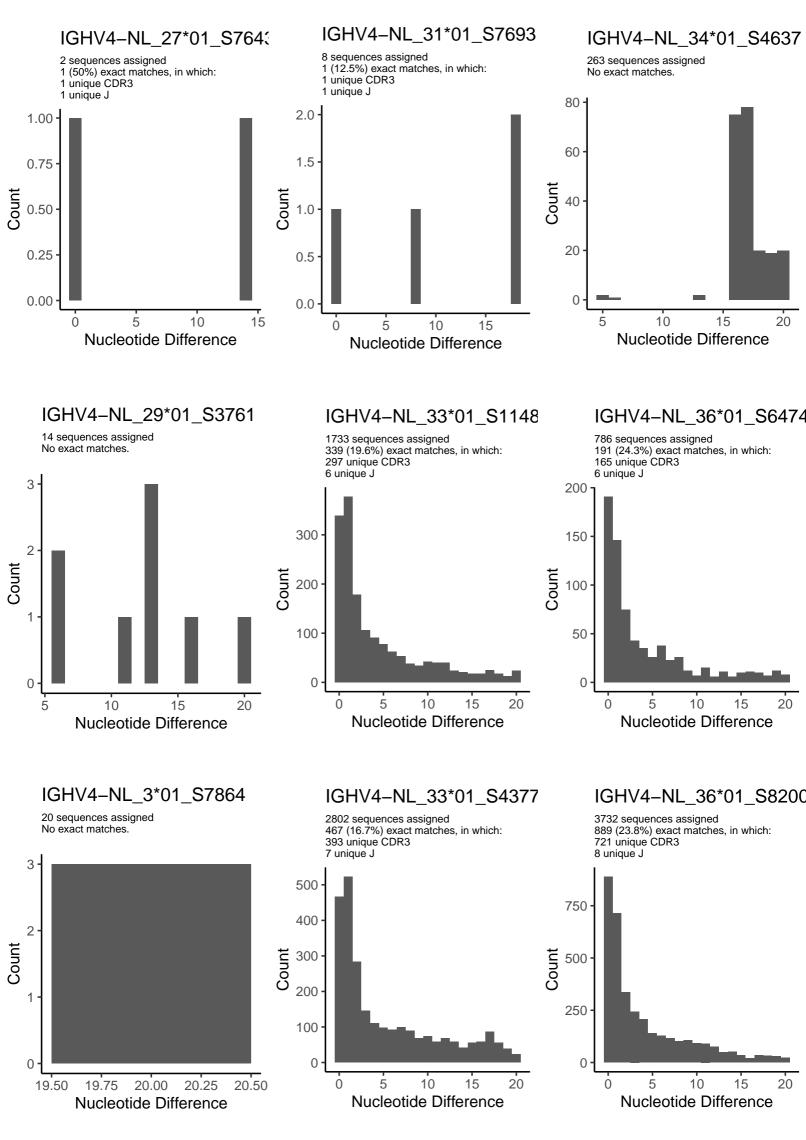


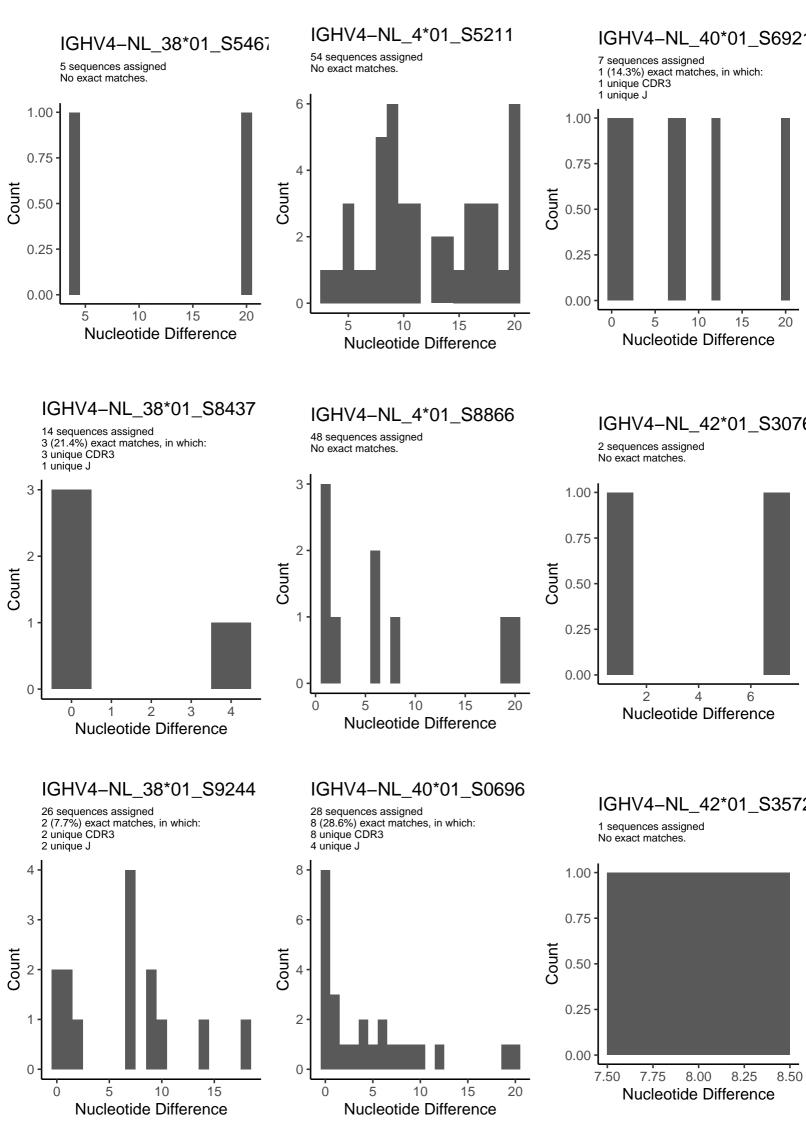


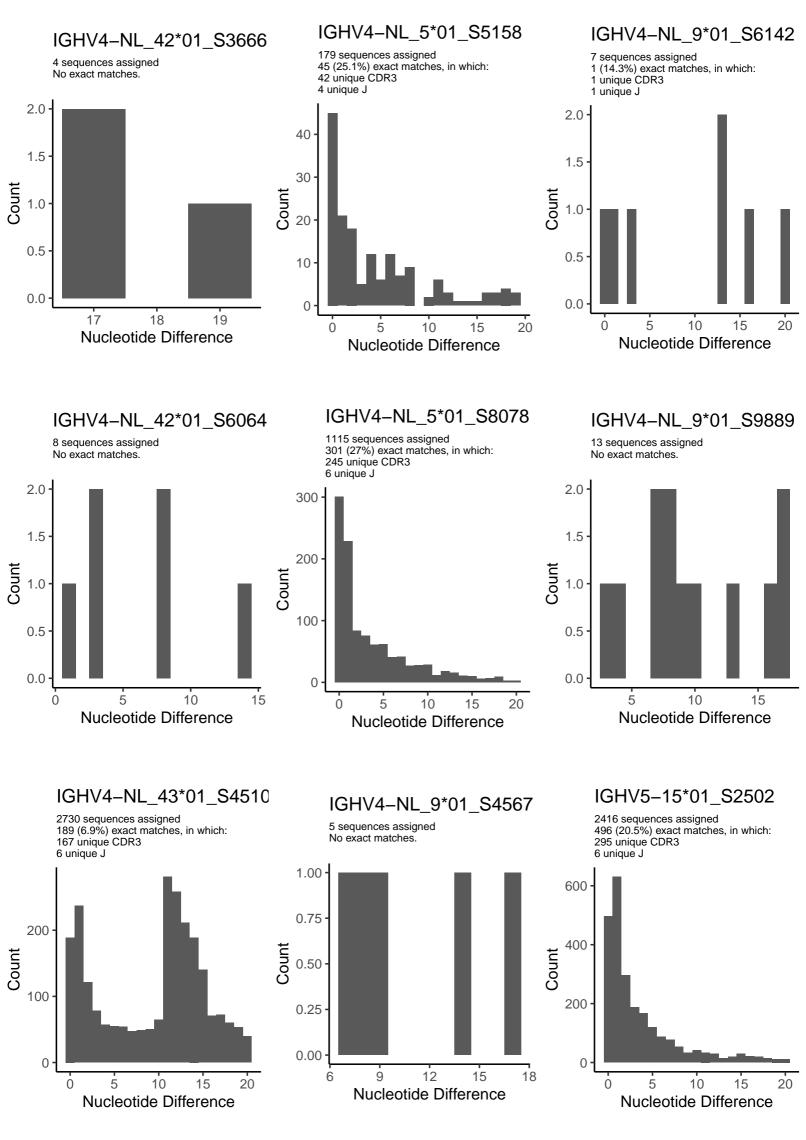






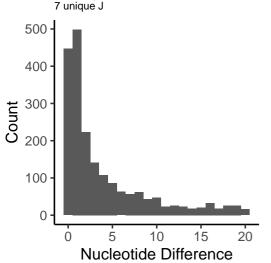






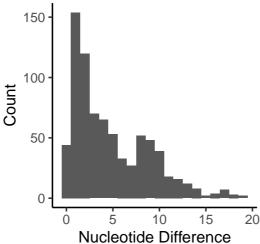
IGHV5-15*01_S4790

2056 sequences assigned 447 (21.7%) exact matches, in which: 281 unique CDR3



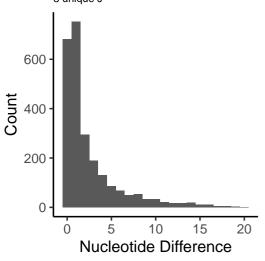
IGHV6-1*02_G280T

785 sequences assigned 44 (5.6%) exact matches, in which: 37 unique CDR3 5 unique J



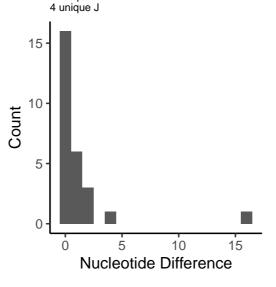
IGHV5-157*01_S8185

2497 sequences assigned 682 (27.3%) exact matches, in which: 358 unique CDR3 8 unique J



IGHV7-135*01_S4281

242 sequences assigned 16 (6.6%) exact matches, in which: 9 unique CDR3



IGHV5-157*02_S3096

3180 sequences assigned 549 (17.3%) exact matches, in which: 330 unique CDR3 6 unique J

