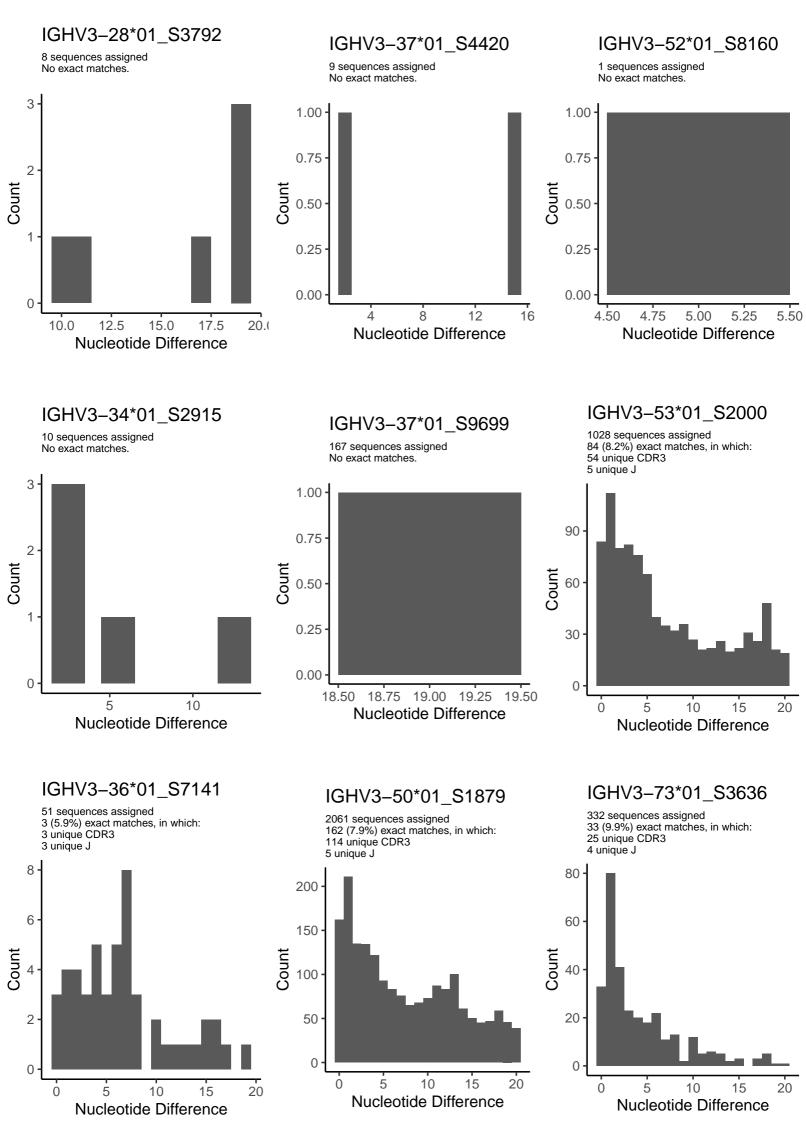
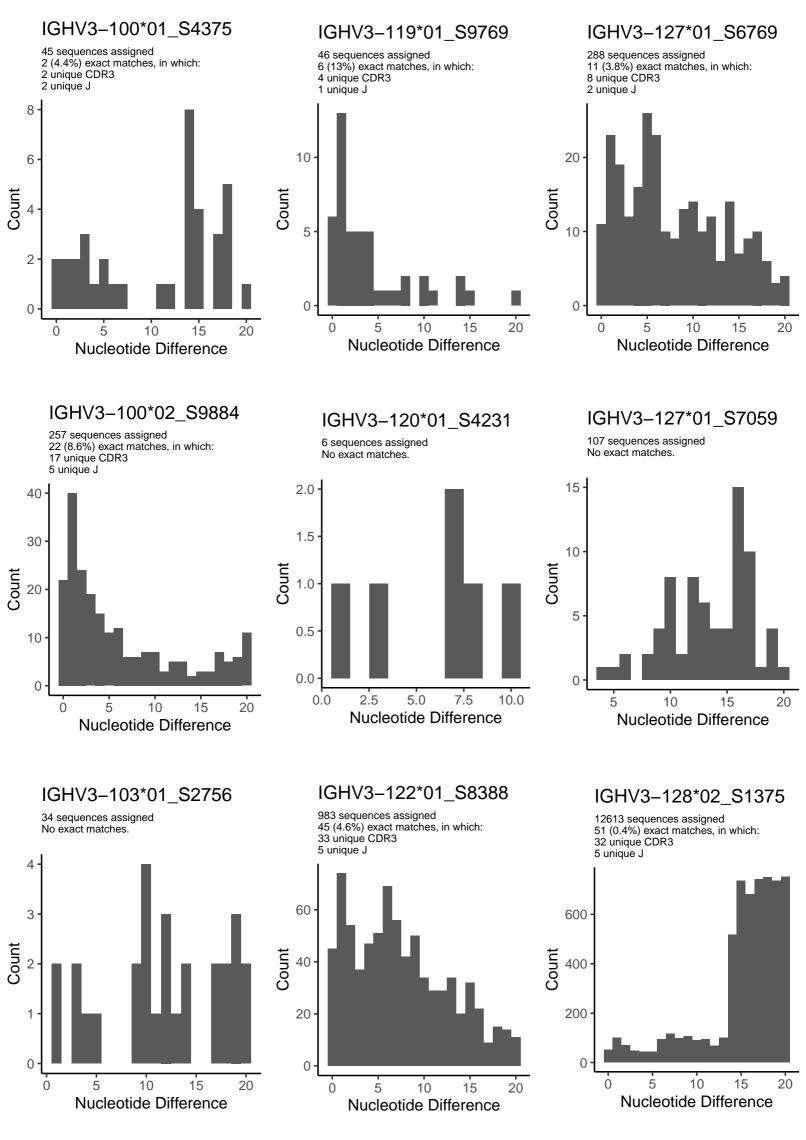
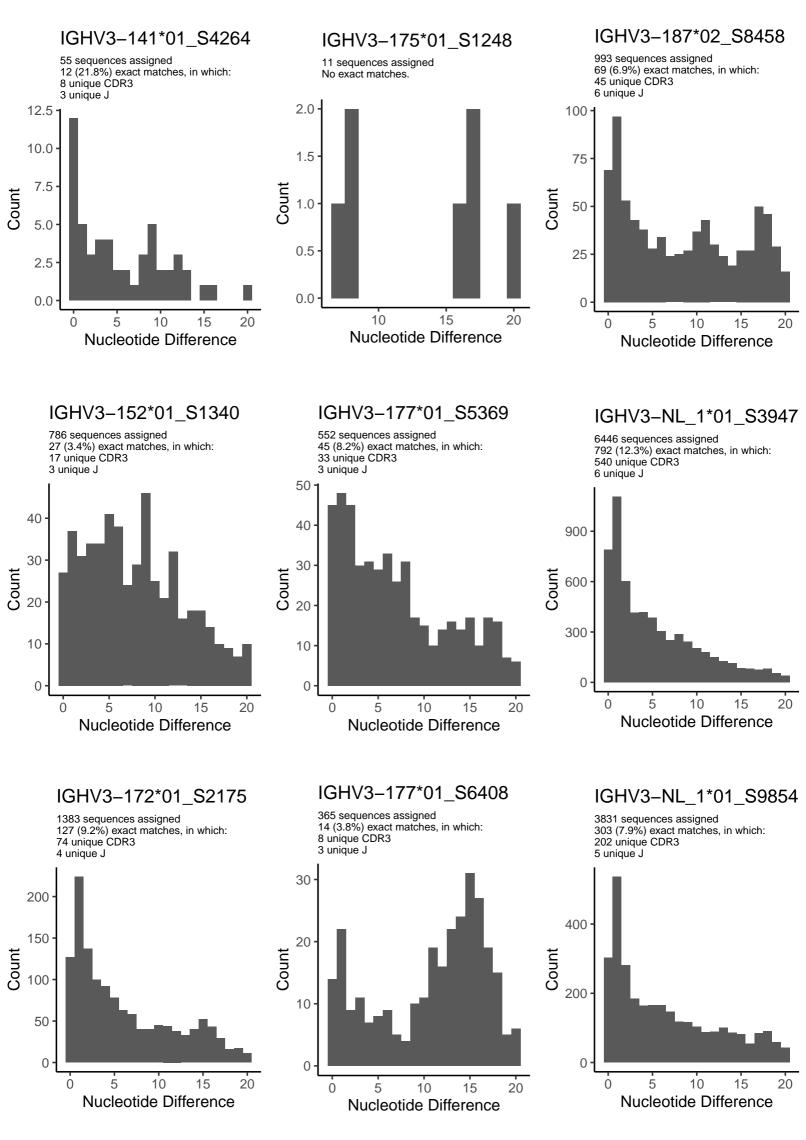
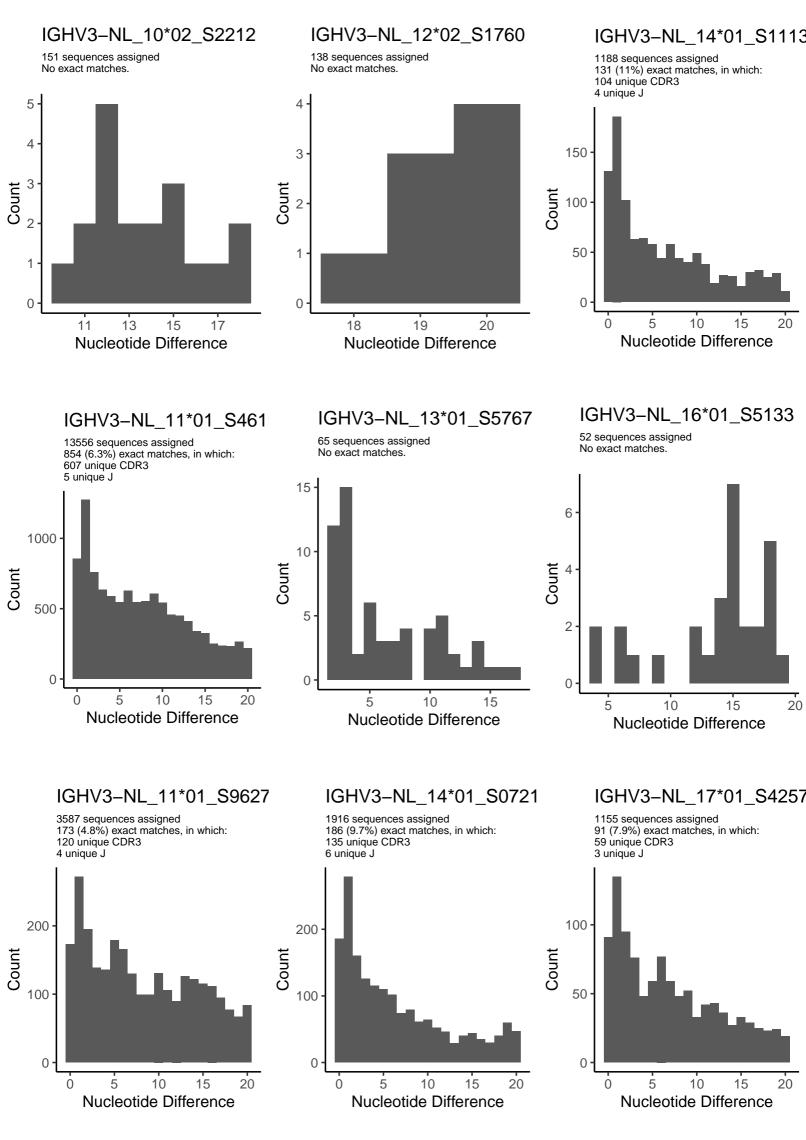


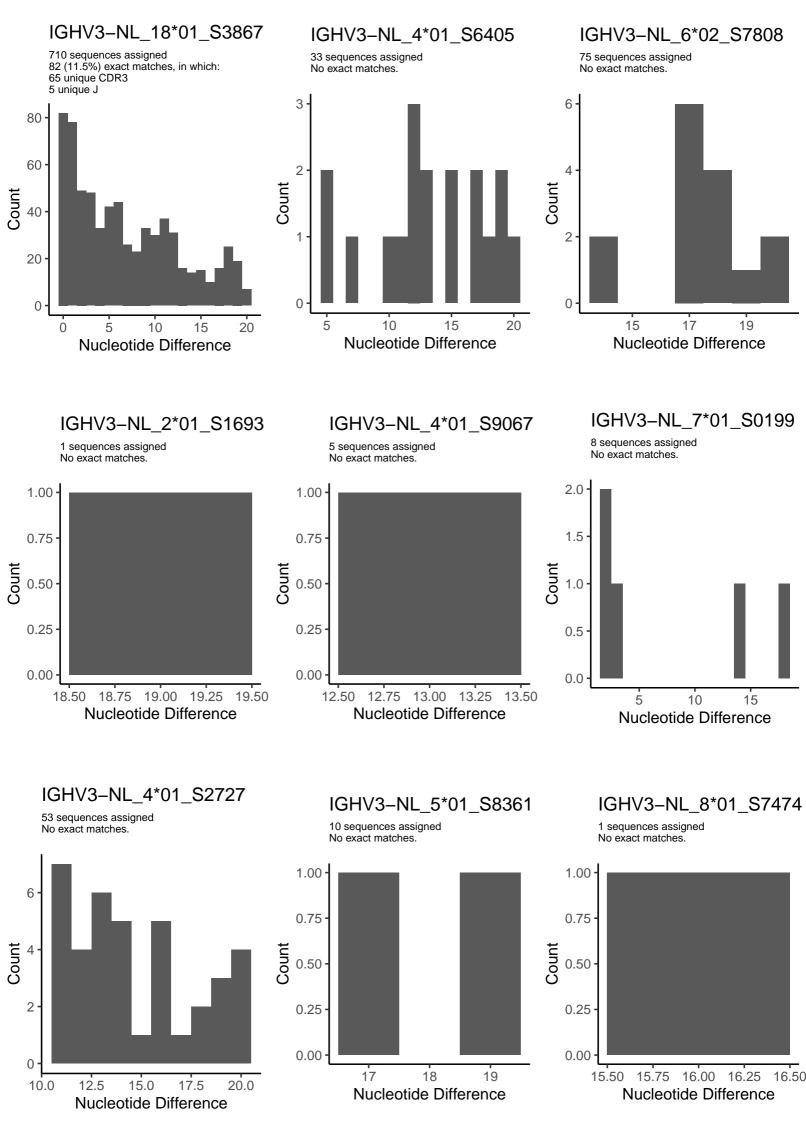
IGHV2-NL_1*01_S4514 IGHV2-118*01_A289T IGHV2-7*02_S4285 87 sequences assigned 233 sequences assigned 31 (13.3%) exact matches, in which: 32 sequences assigned 10 (11.5%) exact matches, in which: 6 unique CDR3 1 (3.1%) exact matches, in which: 1 uniqué CDR3 28 unique CDR3 2 unique J 4 unique J 1 unique J 30 7.5 9 20 Count Count Count 10 2.5 3 0.0 0 0 10 15 0 10 5 15 20 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-118*01_S4632 IGHV2-69*01_G289T IGHV2-NL_2*01_S8873 500 sequences assigned 34 (6.8%) exact matches, in which: 1237 sequences assigned 40 (3.2%) exact matches, in which: 3 sequences assigned 23 unique CDR3 No exact matches. 38 ùniqué CDR3 4 unique J 5 unique J 1.00 150 50 40 0.75 100 Count 30 0.50 20 50 0.25 10 0.00 0 0 12 14 16 15 20 0 5 10 10 15 20 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV2-69*02_S0779 IGHV3-5*01_S6059 IGHV2-118*01_S8501 762 sequences assigned 646 sequences assigned 983 sequences assigned 55 (7.2%) exact matches, in which: 52 (8%) exact matches, in which: 77 (7.8%) exact matches, in which: 34 unique CDR3 40 unique CDR3 62 unique CDR3 5 unique J 3 unique J 4 unique J 120 60 60 80 Count Count 40 40 20 20 0 0 0 20 5 10 15 0 0 5 10 15 20 0 5 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference

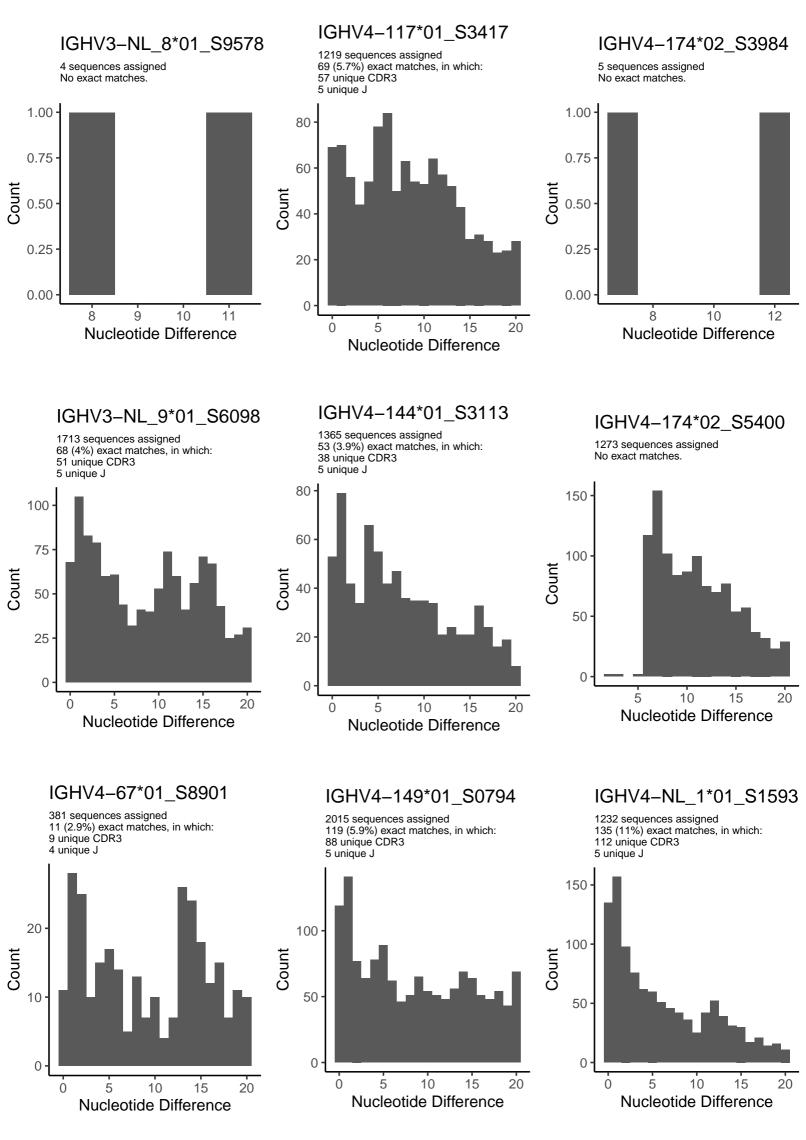


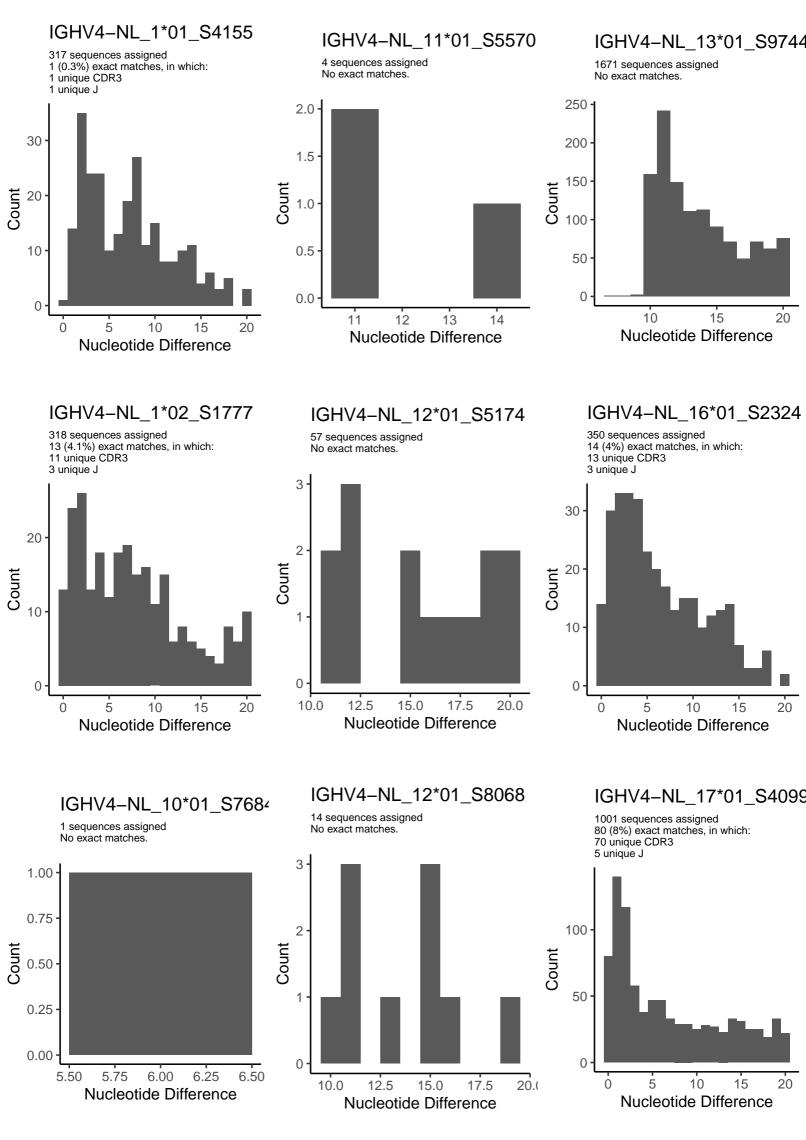


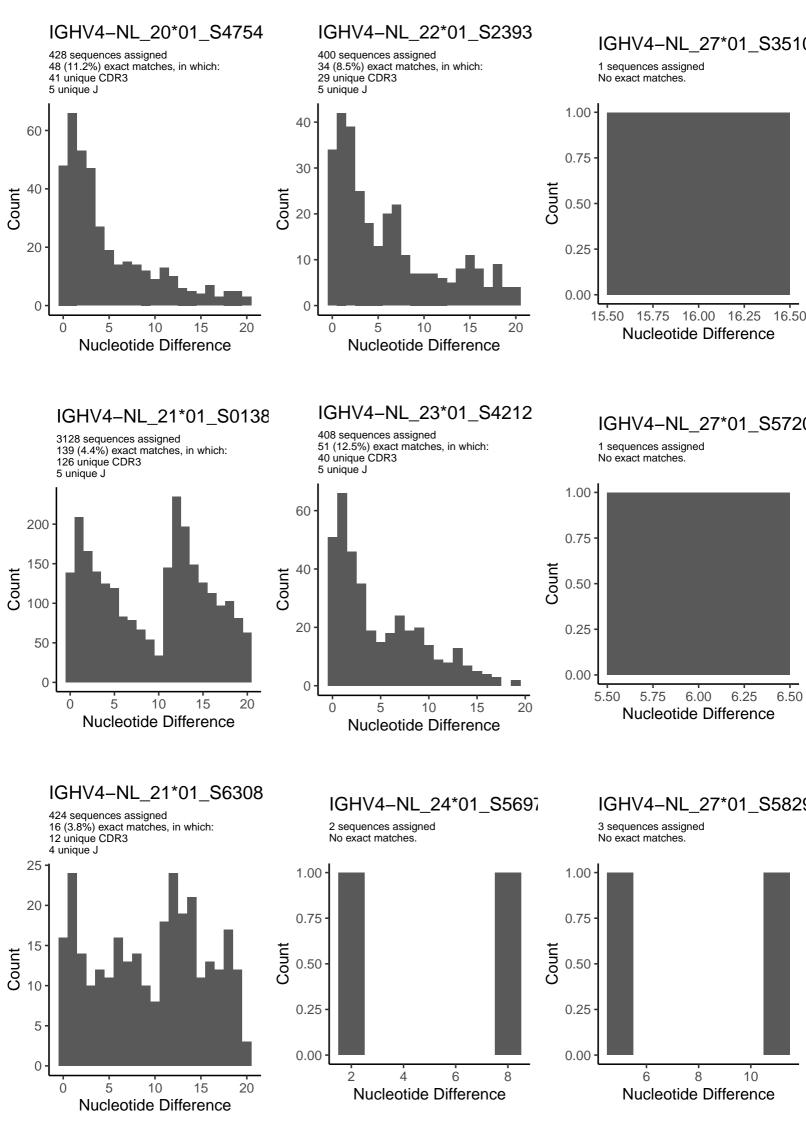


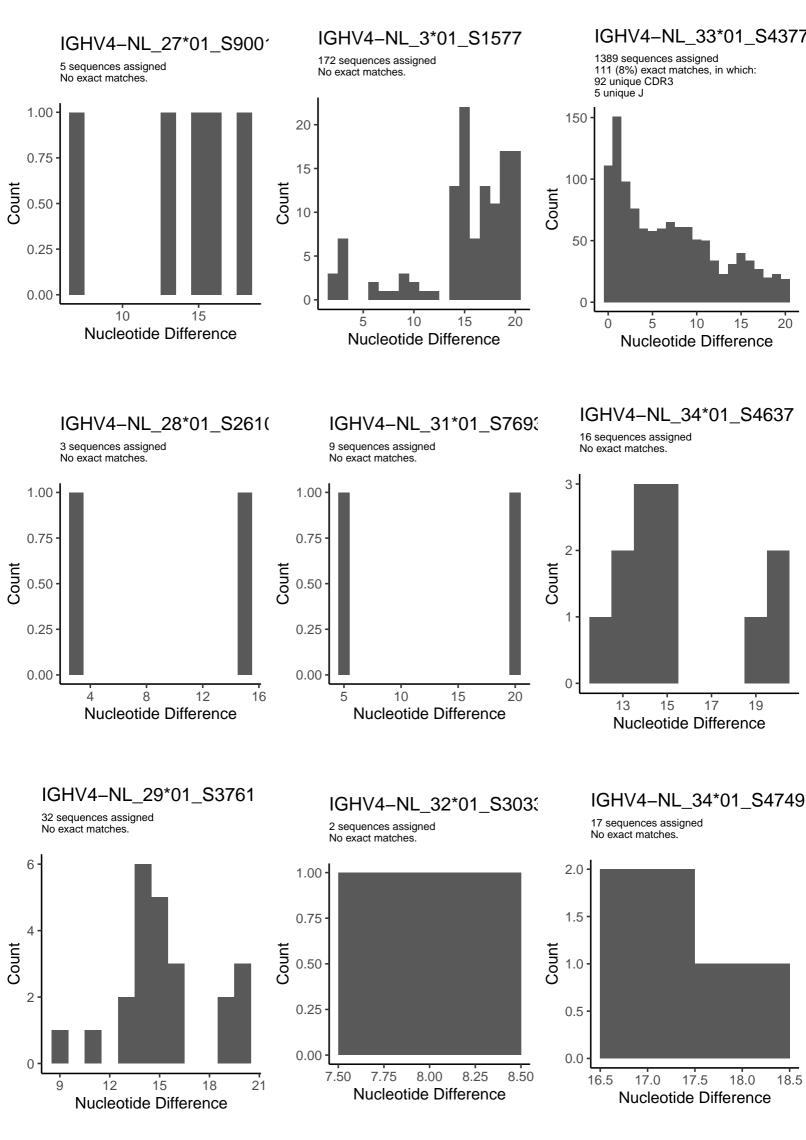


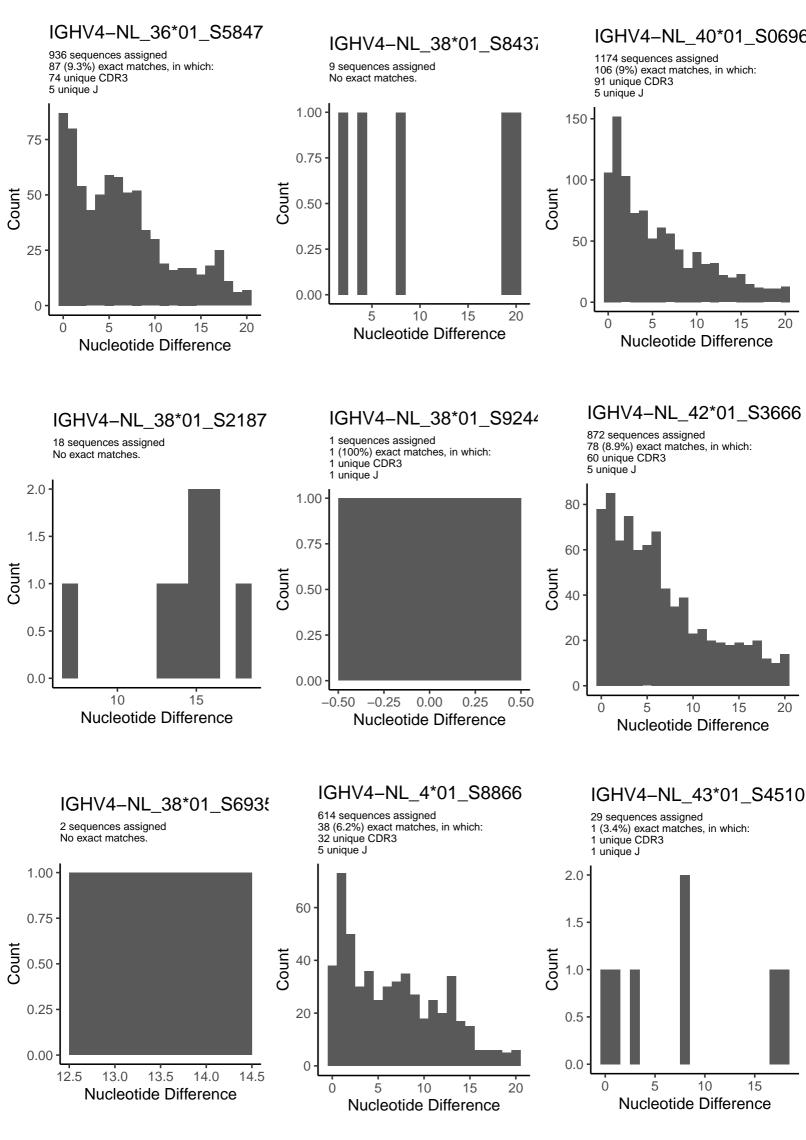






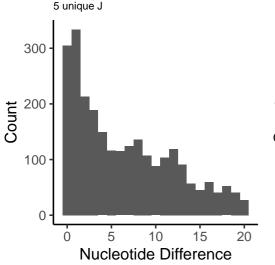






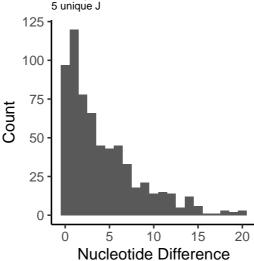
IGHV4-NL_5*01_S0876

2713 sequences assigned 305 (11.2%) exact matches, in which: 242 unique CDR3



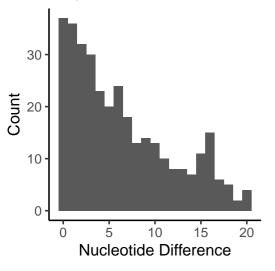
IGHV5-157*01_S5960

646 sequences assigned 97 (15%) exact matches, in which: 52 unique CDR3



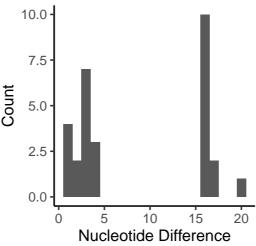
IGHV4-NL_9*01_S3502

367 sequences assigned 37 (10.1%) exact matches, in which: 26 unique CDR3 5 unique J



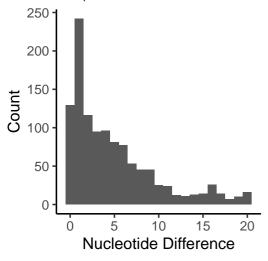
IGHV7-135*01_S9086

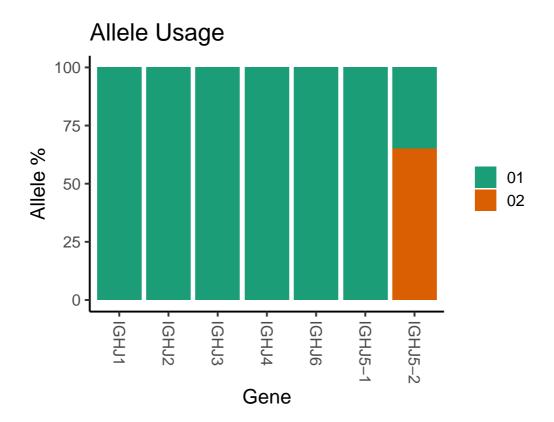
516 sequences assigned No exact matches.



IGHV5-15*01_S4790

1195 sequences assigned 129 (10.8%) exact matches, in which: 89 unique CDR3 5 unique J





Sequence Count by IGHJ5-2 allele usage



