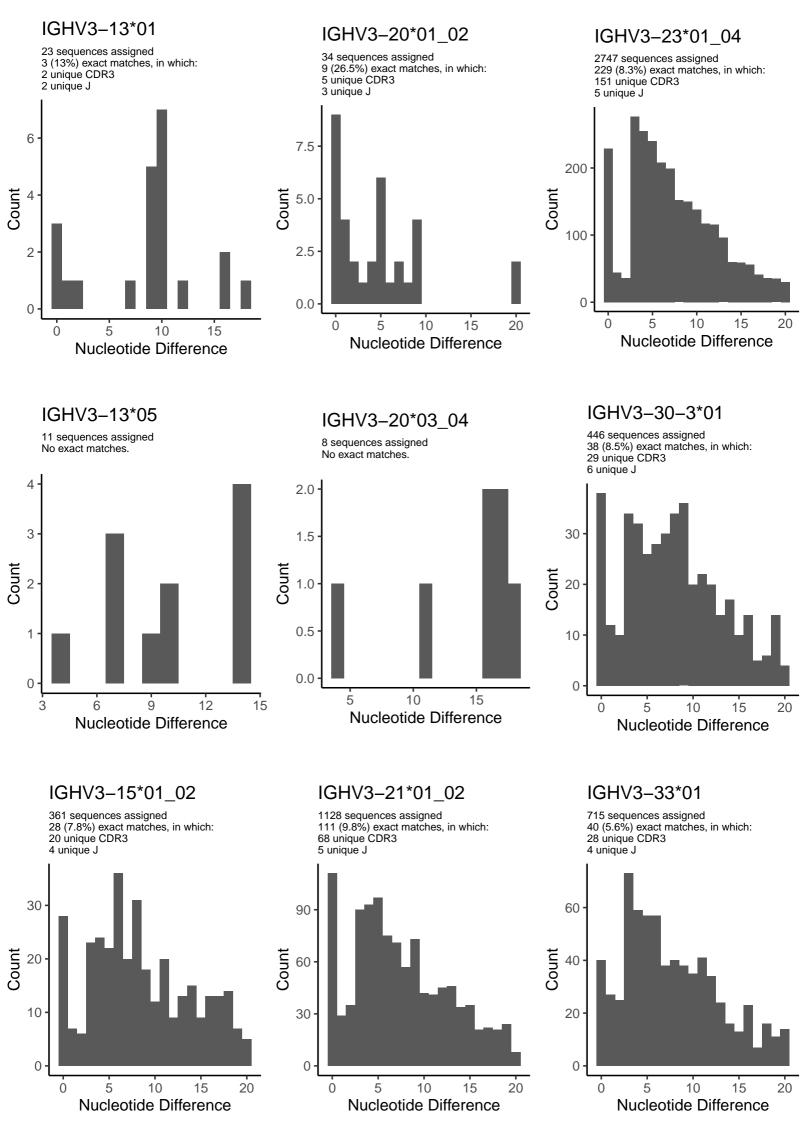
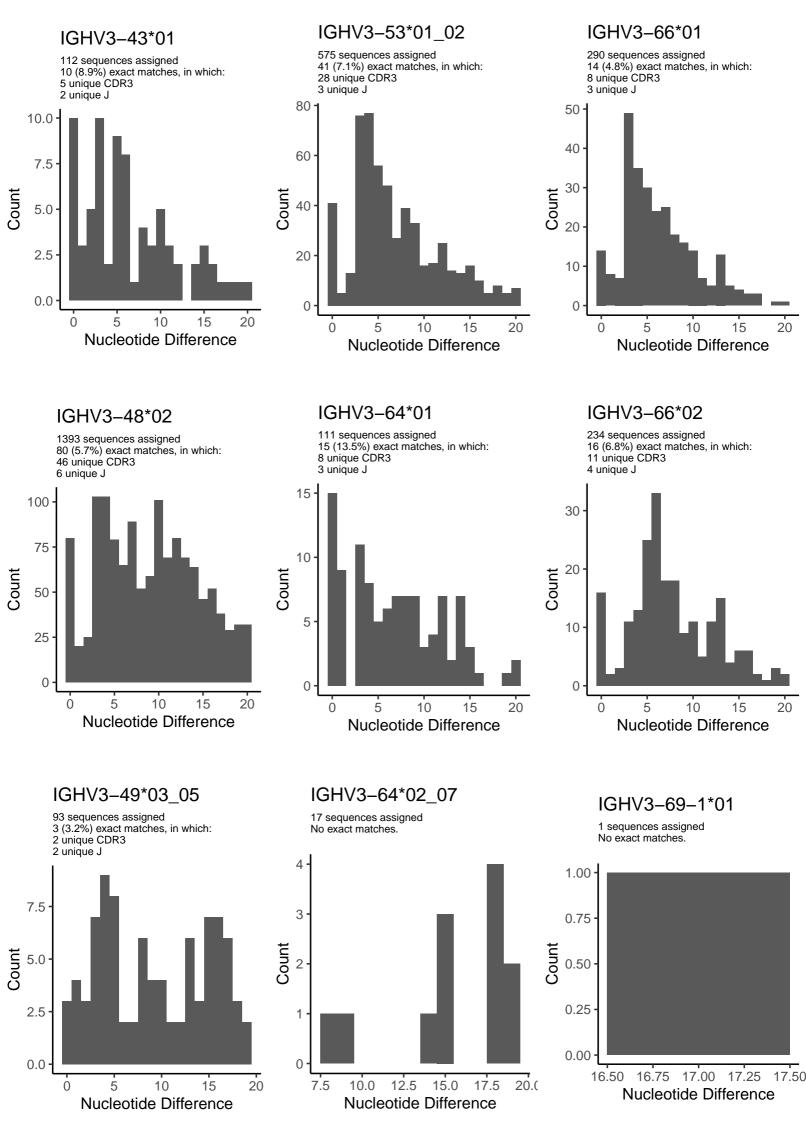
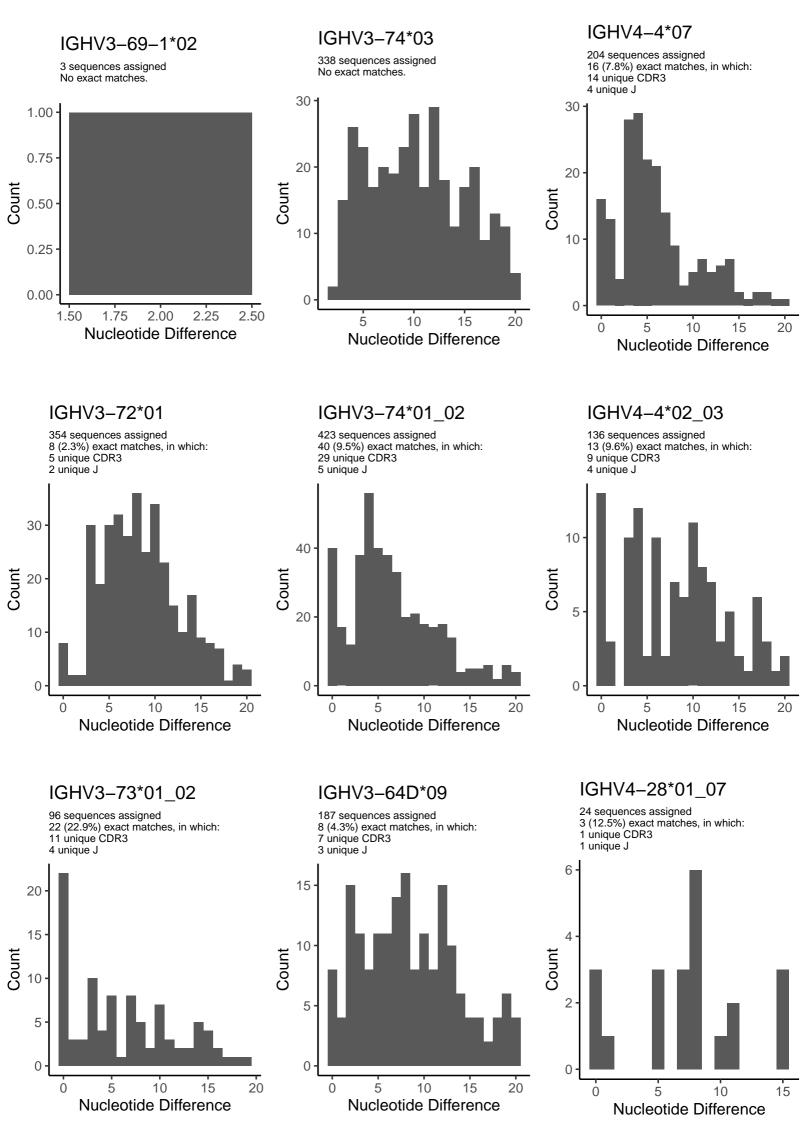
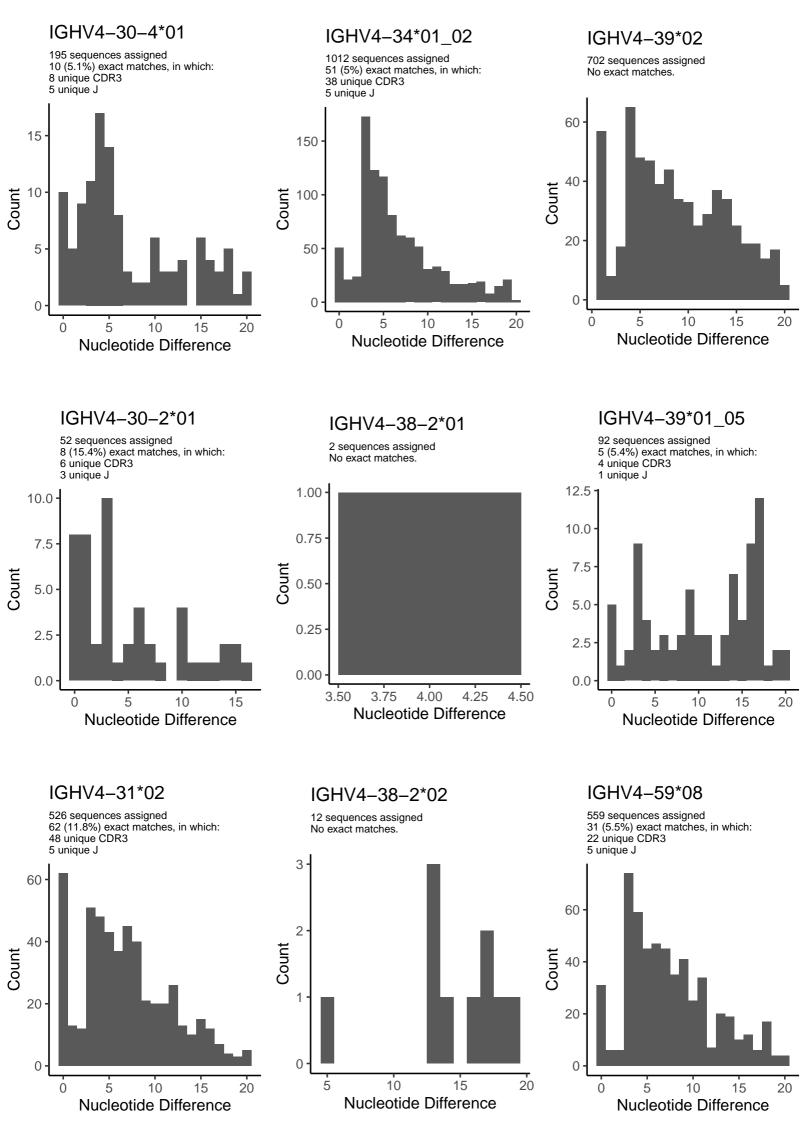


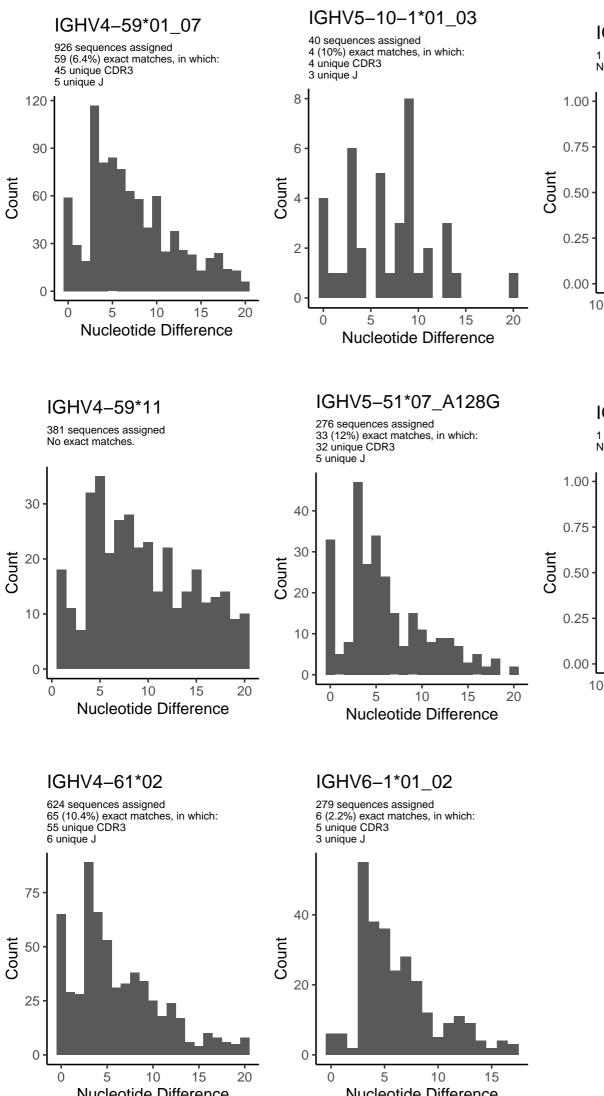
## IGHV2-5\*02 IGHV3-9\*01 IGHV2-70D\*04 253 sequences assigned 21 (8.3%) exact matches, in which: 268 sequences assigned 8 sequences assigned 15 (5.6%) exact matches, in which: No exact matches. 15 unique CDR3 17 unique CDR3 5 unique J 4 unique J 3 30 30 20 Count Count 10 10 0 0 8 10 15 5 10 0 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-26\*01 IGHV3-7\*01 IGHV3-11\*01 37 sequences assigned 5 (13.5%) exact matches, in which: 5 unique CDR3 1172 sequences assigned 51 (4.4%) exact matches, in which: 33 unique CDR3 311 sequences assigned 30 (9.6%) exact matches, in which: 19 unique CDR3 3 unique J 5 unique J 4 unique J 5 30 90 4 3 Count Count 20 60 2 30 10 0 0 0 10 15 20 10 15 20 0 5 0 5 10 15 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-70\*11\_15 IGHV3-7\*03 IGHV3-11\*06 63 sequences assigned 1090 sequences assigned 141 sequences assigned 8 (12.7%) exact matches, in which: 8 unique CDR3 49 (4.5%) exact matches, in which: 16 (11.3%) exact matches, in which: 28 unique CDR3 10 unique CDR3 3 unique J 4 unique J 4 unique J 20 90 6 15 Count 60 10 30 2 5 0 0 0 0 5 10 15 20 5 10 15 0 5 10 15 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**





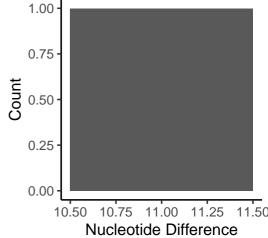






IGHV7-4-1\*01

1 sequences assigned No exact matches.



IGHV7-4-1\*02

1 sequences assigned No exact matches.

