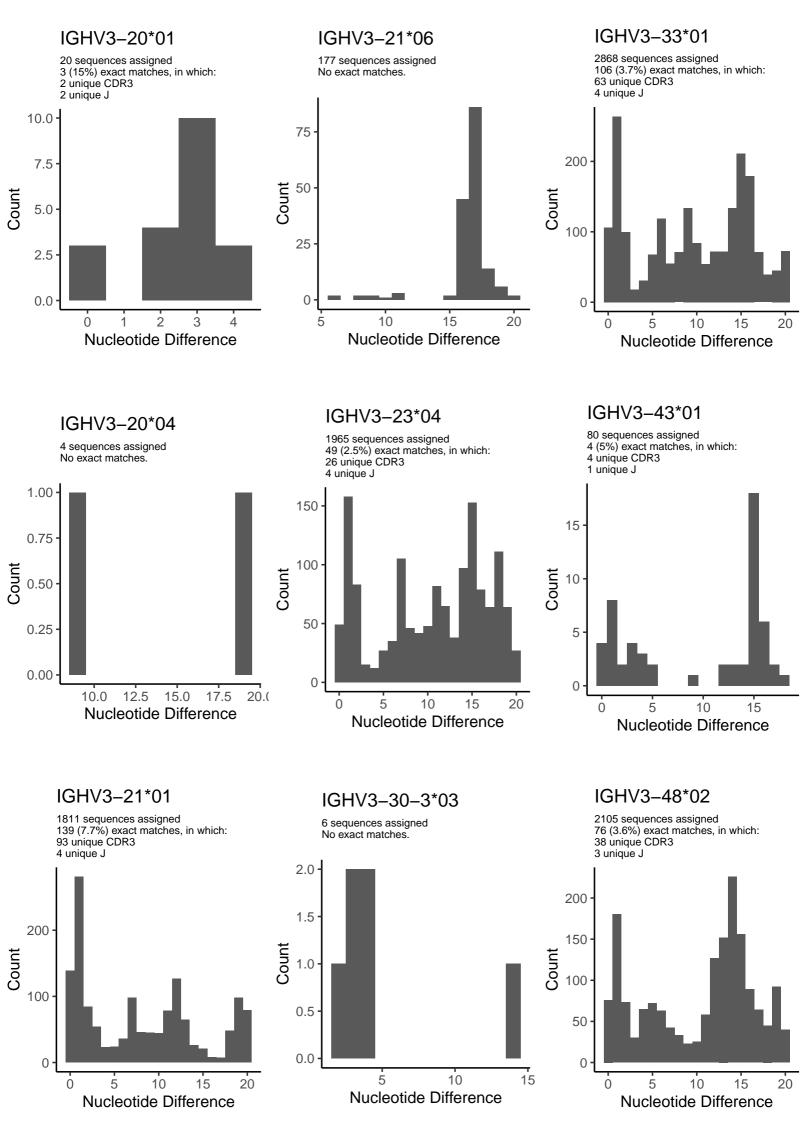
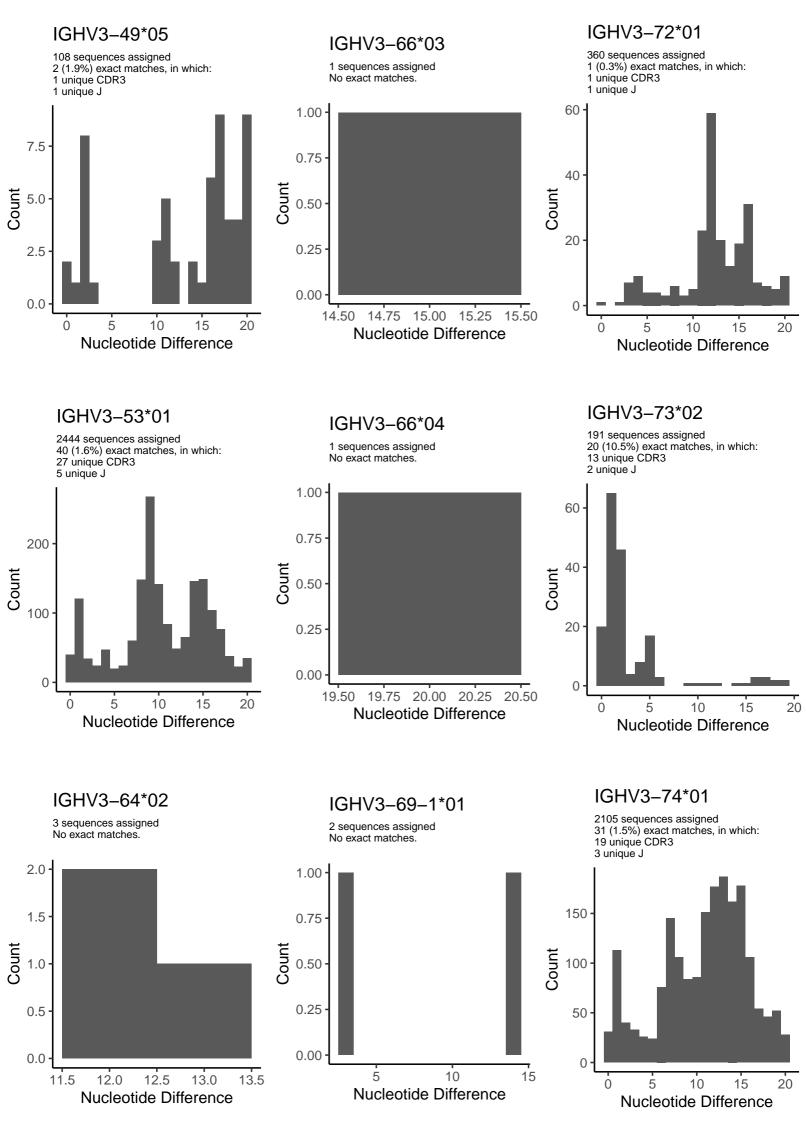
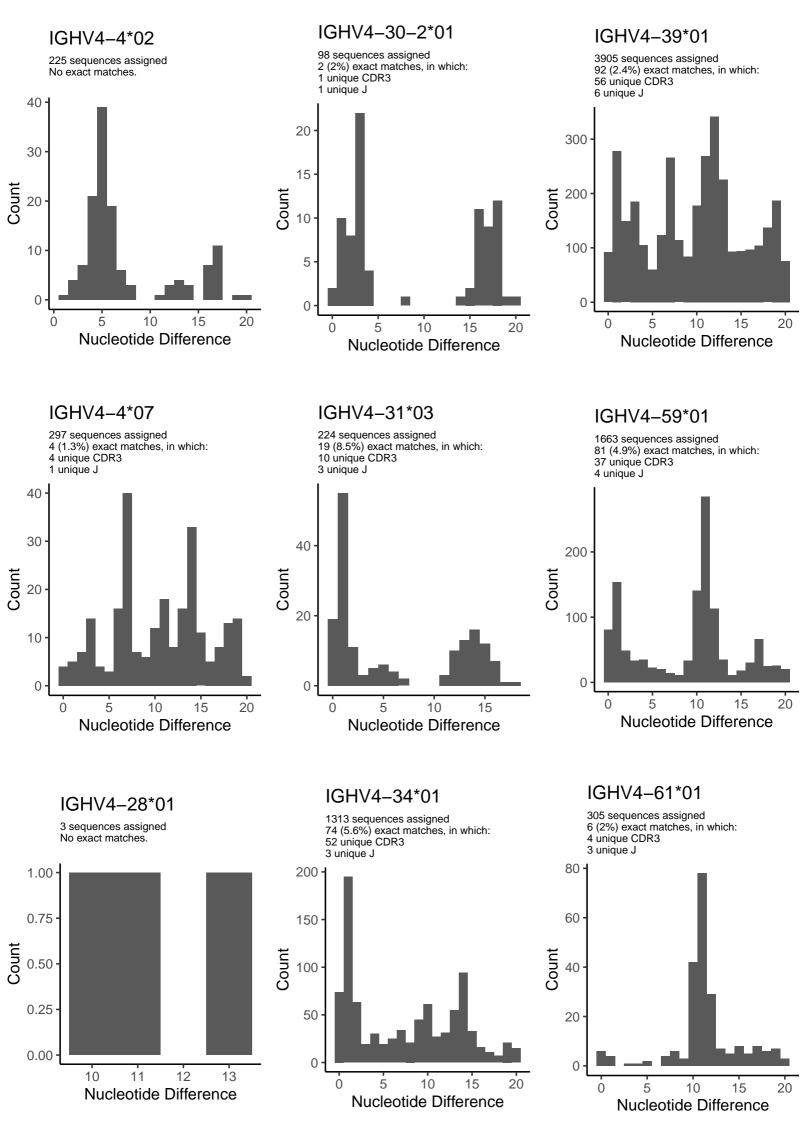


IGHV2-70*01 IGHV3-11*01 IGHV2-5*01 80 sequences assigned 9 (11.2%) exact matches, in which: 939 sequences assigned 29 (3.1%) exact matches, in which: 616 sequences assigned 63 (10.2%) exact matches, in which: 20 unique CDR3 5 unique CDR3 35 unique CDR3 2 unique J 2 unique J 3 unique J 20 60 150 15 40 Count Count 100 10 20 50 5 0 0 0 5 10 15 20 0 0.0 5.0 7.5 10.0 10 15 20 2.5 0 5 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-5*02 IGHV3-13*01 IGHV3-7*01 703 sequences assigned 61 sequences assigned 3745 sequences assigned 22 (3.1%) exact matches, in which: 16 unique CDR3 1 (1.6%) exact matches, in which: 129 (3.4%) exact matches, in which: 1 unique CDR3 82 unique CDR3 4 unique J 1 unique J 5 unique J 80 60 10 200 Count Count 100 5 20 0 0 0 10 15 20 0 5 10 15 10 15 0 5 20 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-9*01 IGHV3-15*01 IGHV2-26*01 833 sequences assigned 795 sequences assigned 103 sequences assigned 39 (4.9%) exact matches, in which: 9 (1.1%) exact matches, in which: No exact matches. 29 unique CDR3 9 unique CDR3 3 unique J 2 unique J 30 90 75 20 Count Count 60 50 10 30 25 0 0 0 20 10 15 0 5 10 15 20 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

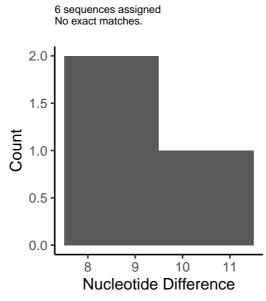






34 sequences assigned No exact matches. 7.5 - 2.5 - 0.0 - 11 13 15 17 Nucleotide Difference

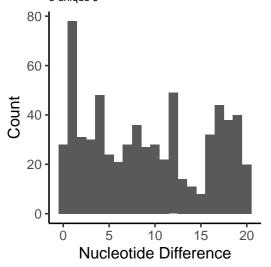
IGHV4-61*08



IGHV7-4-1*01

IGHV5-51*01

1355 sequences assigned 28 (2.1%) exact matches, in which: 16 unique CDR3 5 unique J



IGHV6-1*01

1441 sequences assigned 45 (3.1%) exact matches, in which: 20 unique CDR3 3 unique J

