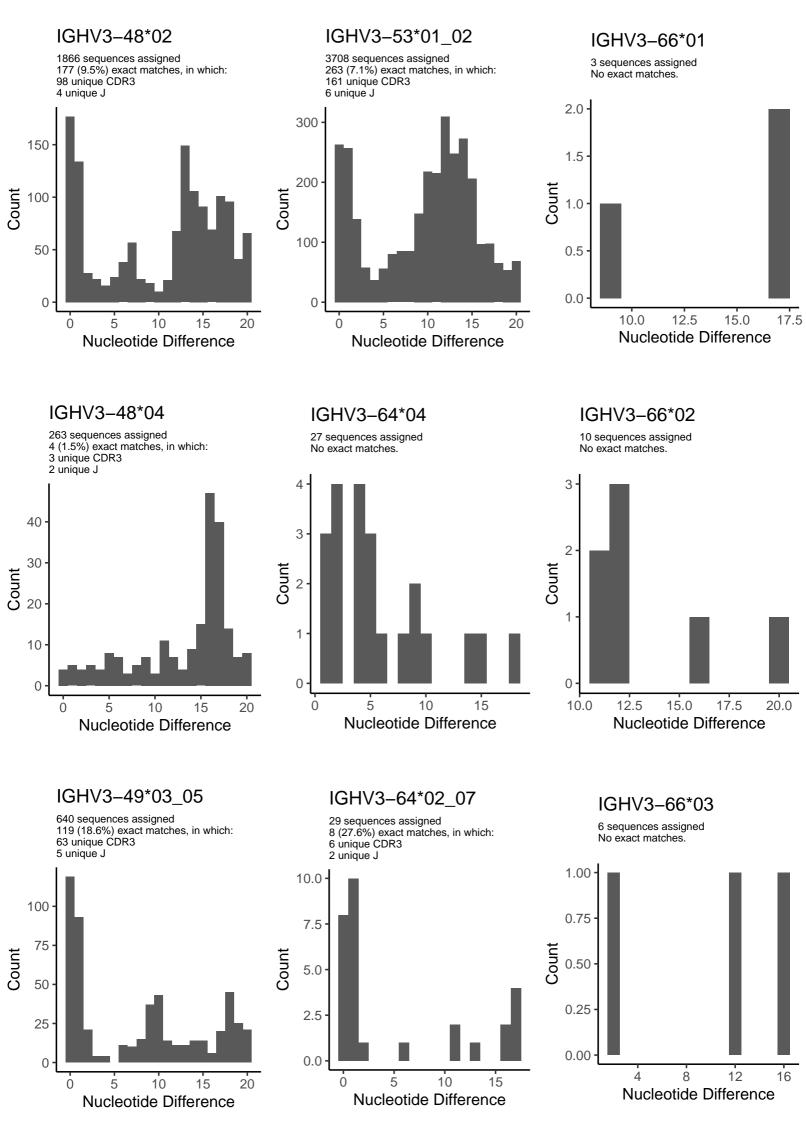


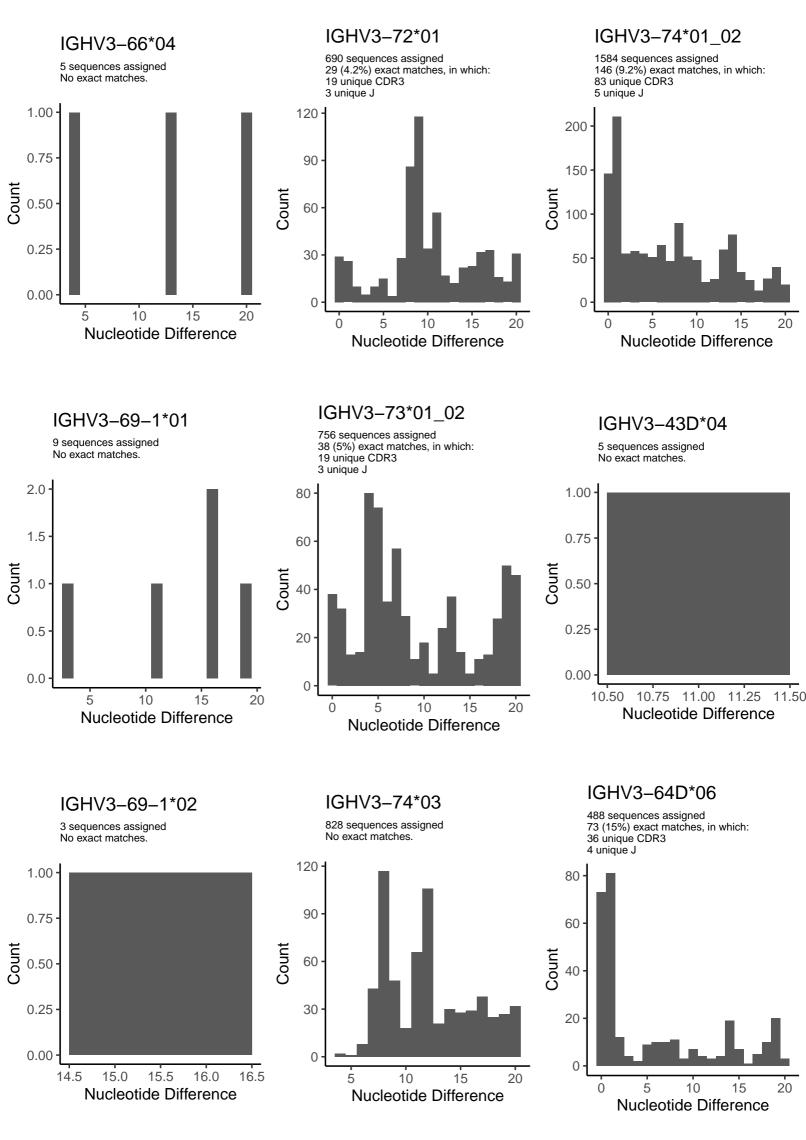
IGHV3-21*04 IGHV3-30-3*01 IGHV3-33*05 225 sequences assigned 5069 sequences assigned 82 sequences assigned 10 (4.4%) exact matches, in which: 10 unique CDR3 899 (17.7%) exact matches, in which: No exact matches. 526 unique CDR3 5 unique J 6 unique J 20 750 10 15 Count 500 10 5 250 5 0 0 0 10 15 20 5 10 15 20 0 0 10 15 5 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-30*03 IGHV3-21*01_02 IGHV3-43*01 485 sequences assigned 60 (12.4%) exact matches, in which: 3563 sequences assigned 508 (14.3%) exact matches, in which: 866 sequences assigned 42 (4.8%) exact matches, in which: 54 unique CDR3 297 unique CDR3 24 unique CDR3 4 unique J 6 unique J 4 unique J 60 500 400 100 40 300 Count 200 50 20 100 0 0 0 10 15 20 20 0 5 0 5 10 15 10 15 20 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-23*01_04 IGHV3-33*01 IGHV3-48*01 11908 sequences assigned 3608 sequences assigned 1808 sequences assigned 727 (6.1%) exact matches, in which: 441 (12.2%) exact matches, in which: 119 (6.6%) exact matches, in which: 405 uniqué CDR3 257 unique CDR3 66 unique CDR3 6 unique J 6 unique J 6 unique J 120 400 600 300 80 Count Count 400 200 40 200 100 0 0 0 5 10 15 20 5 10 15 20 10 15 20

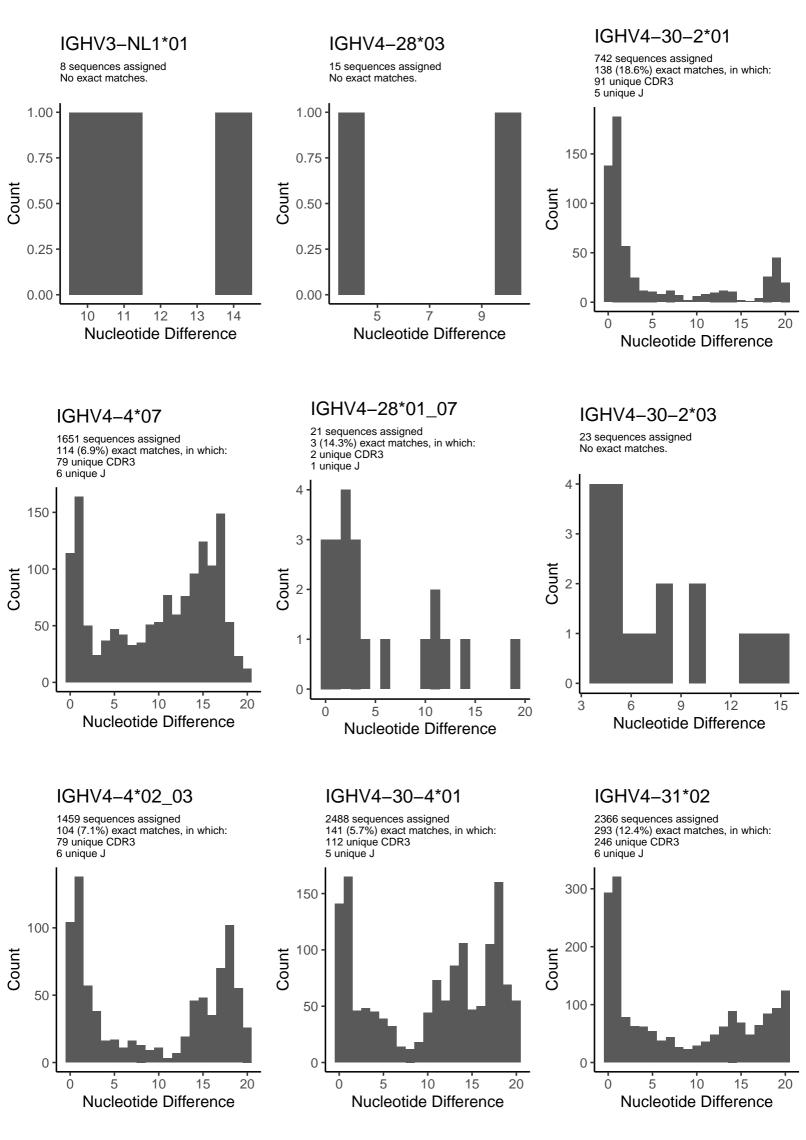
Nucleotide Difference

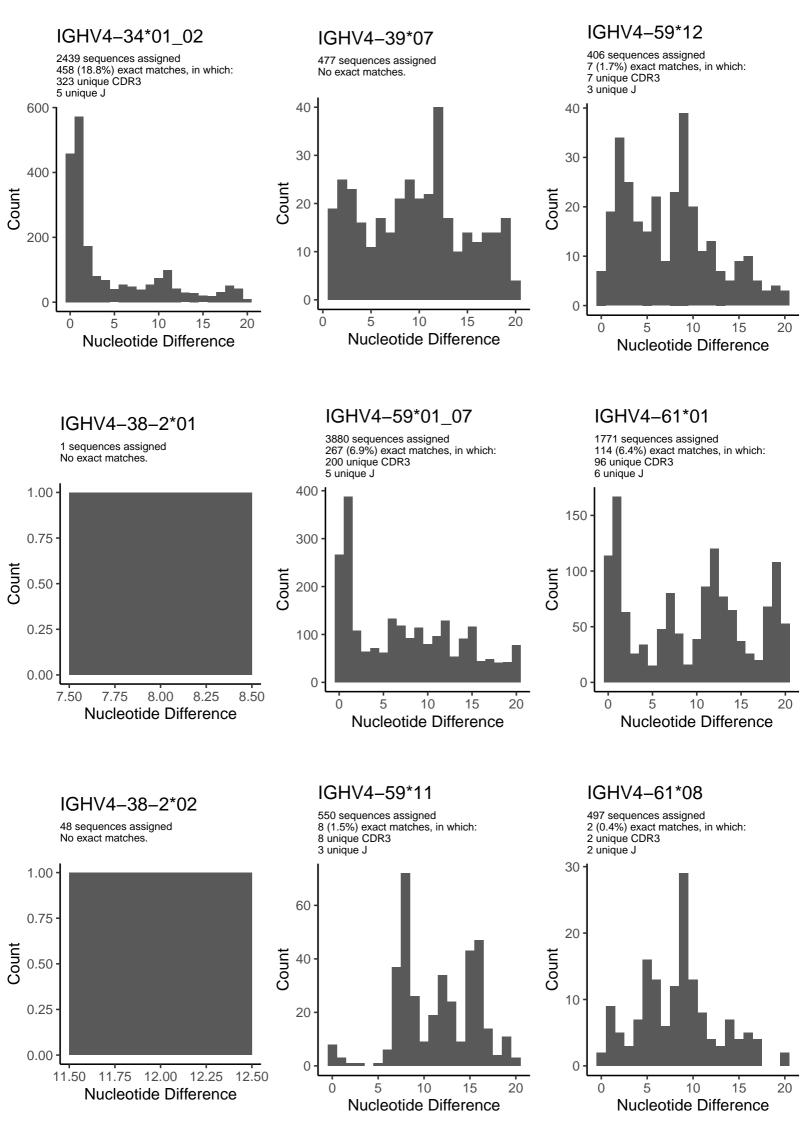
Nucleotide Difference

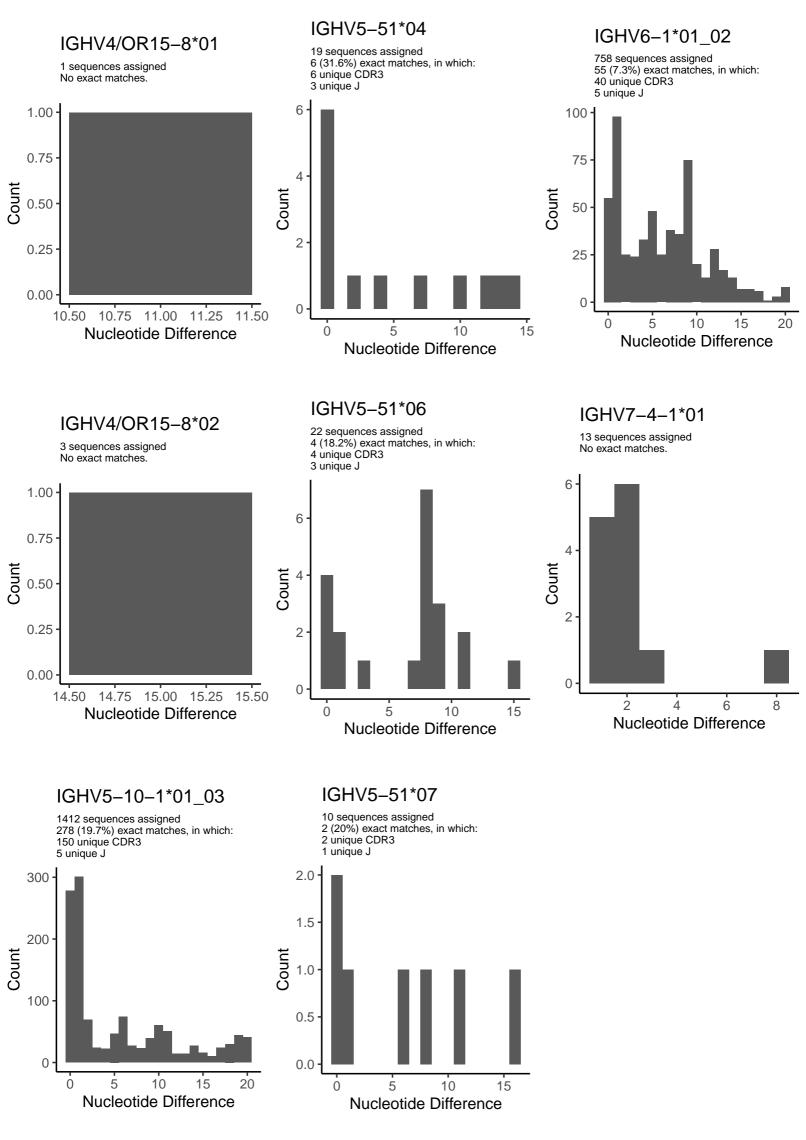
Nucleotide Difference













Warning – no inferred sequences found. Warning - no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found.