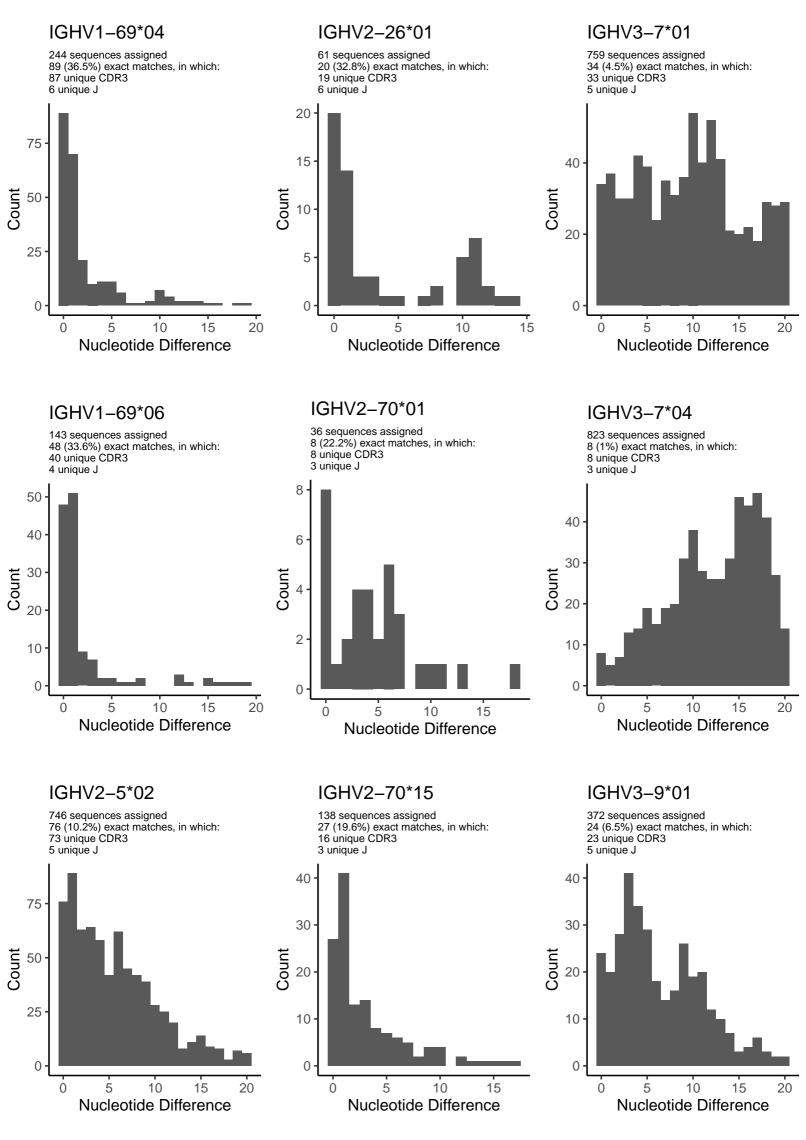
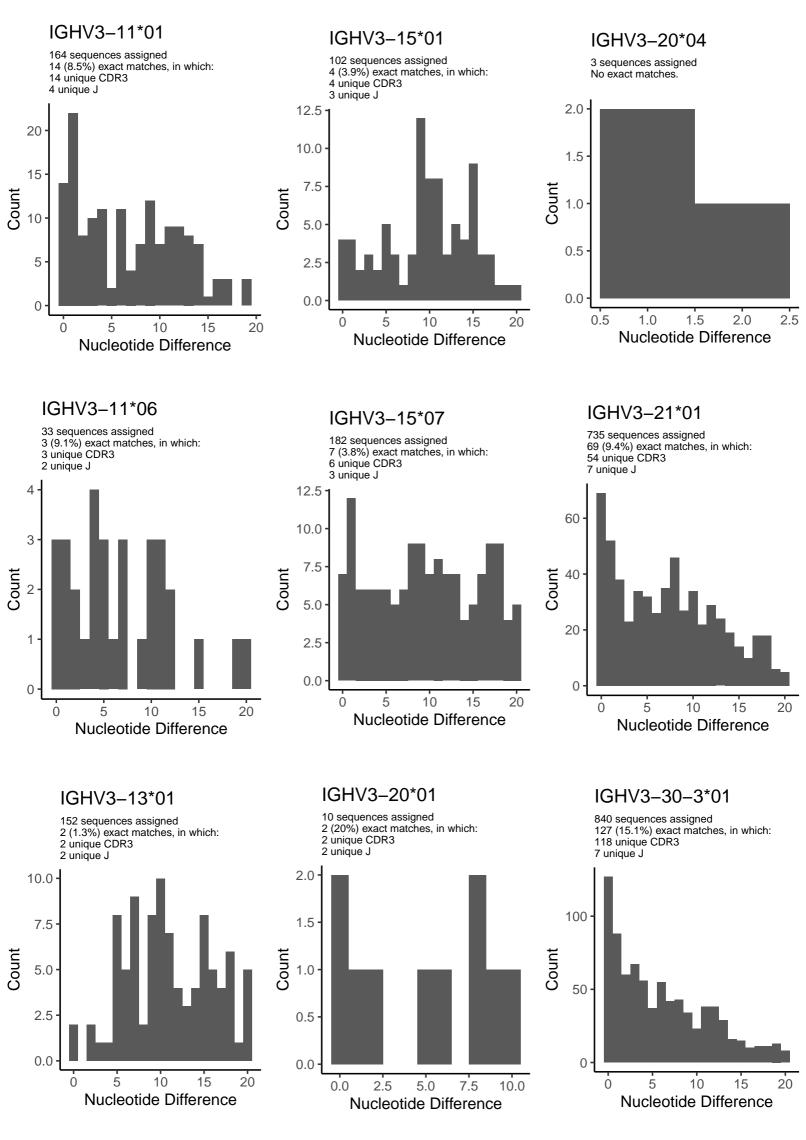
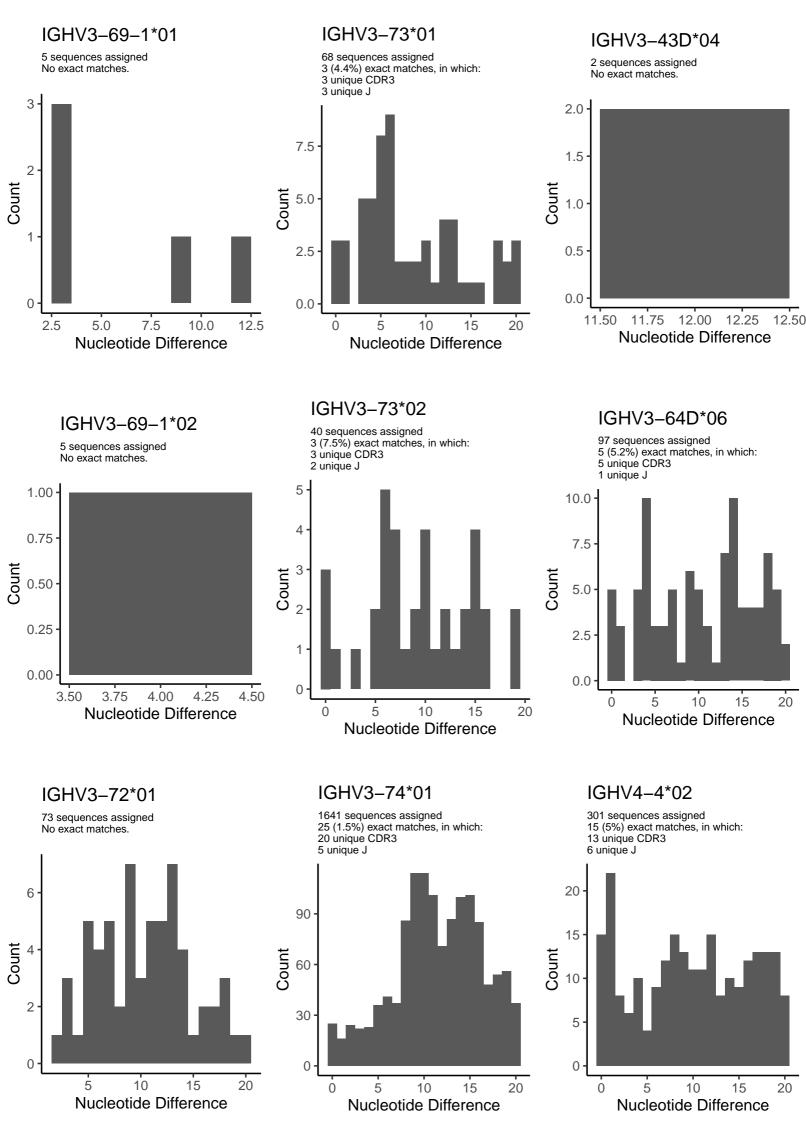
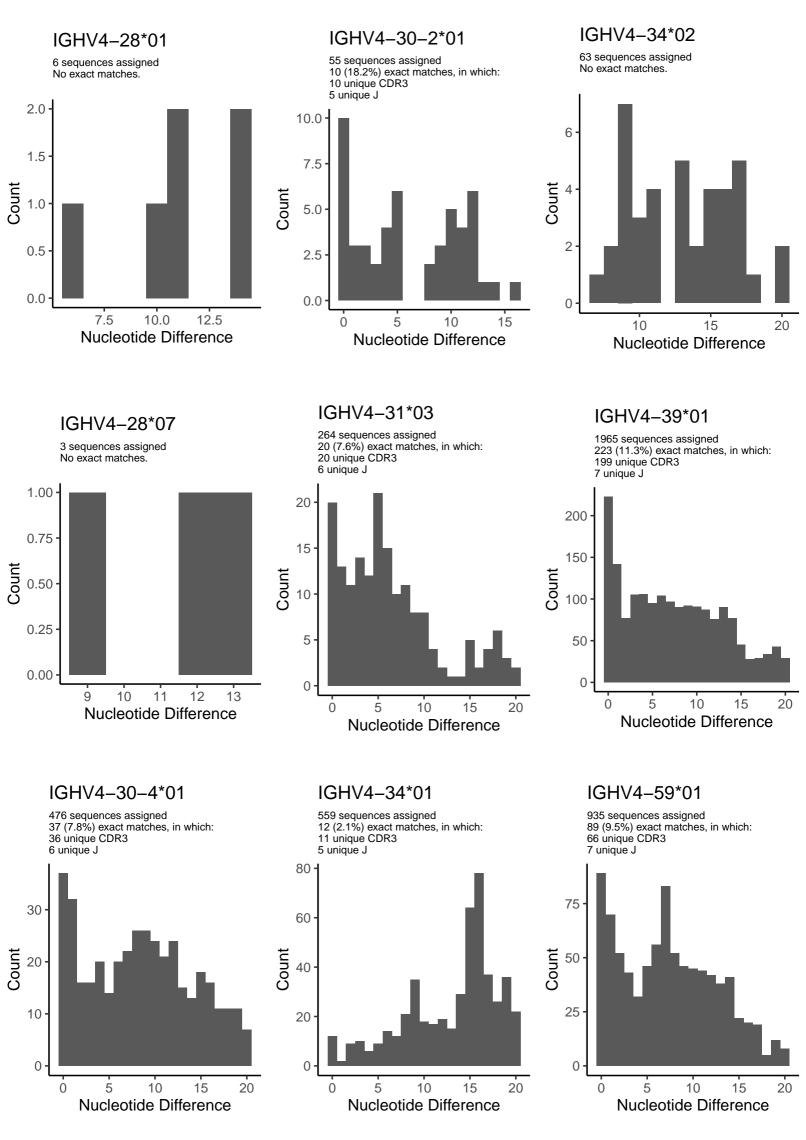
IGHV1-2*04 IGHV1-8*01 IGHV1-46*01 262 sequences assigned 25 (9.5%) exact matches, in which: 22 unique CDR3 380 sequences assigned 52 (13.7%) exact matches, in which: 613 sequences assigned 90 (14.7%) exact matches, in which: 85 unique CDR3 49 unique CDR3 5 unique J 6 unique J 6 unique J 50 30 75 40 Count Count 30 Count 50 20 10 25 10 0 0 0 0 10 15 20 10 15 20 10 5 5 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-58*01 IGHV1-3*01 IGHV1-18*01 22 sequences assigned 5 (22.7%) exact matches, in which: 5 unique CDR3 1054 sequences assigned 198 (18.8%) exact matches, in which: 582 sequences assigned 97 (16.7%) exact matches, in which: 189 unique CDR3 92 unique CDR3 3 unique J 6 unique J 7 unique J 100 200 75 150 3 Count Count 50 100 2 25 50 0 0 0 10 15 20 5 10 15 20 0 5 0 0 2 6 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV1-69-2*01 IGHV1-24*01 IGHV1-3*04 6 sequences assigned 2 (33.3%) exact matches, in which: 2 unique CDR3 139 sequences assigned 156 sequences assigned 46 (33.1%) exact matches, in which: No exact matches. 45 unique CDR3 2 unique J 7 unique J 3 15 40 2 30 Count Count 20 5 10 0 0 0 15 10 20 0 0 10 15 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**





IGHV3-48*02 IGHV3-53*01 IGHV3-33*01 341 sequences assigned 20 (5.9%) exact matches, in which: 873 sequences assigned 64 (7.3%) exact matches, in which: 1056 sequences assigned 130 (12.3%) exact matches, in which: 62 unique CDR3 15 unique CDR3 122 unique CDR3 4 unique J 6 unique J 6 unique J 60 100 20 Count Count Count 50 10 20 0 0 0 5 10 15 20 0 0 5 10 15 20 5 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-43*01 IGHV3-49*03 IGHV3-64*02 36 sequences assigned 1 (2.8%) exact matches, in which: 109 sequences assigned 10 (9.2%) exact matches, in which: 8 sequences assigned (12.5%) exact matches, in which: 1 unique CDR3 9 unique CDR3 1 unique CDR3 1 unique J 4 unique J 1 unique J 5 2.0 15 4 1.5 10 3 Count Count 1.0 2 5 0.5 0.0 0 0 10 15 10 15 20 0 5 0 5 10 15 20 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-49*05 IGHV3-48*01 IGHV3-66*01 12 sequences assigned 331 sequences assigned 273 sequences assigned 4 (33.3%) exact matches, in which: 4 unique CDR3 28 (10.3%) exact matches, in which: 37 (11.2%) exact matches, in which: 30 unique CDR3 26 unique CDR3 2 unique J 4 unique J 3 unique J 30 3 20 Count Count 2 10 10 1 0 0 0 0 5 10 15 20 0 5 10 15 20 0 5 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference



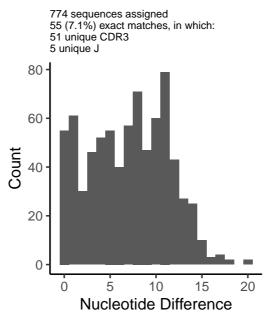


393 sequences assigned 49 (12.5%) exact matches, in which: 25 unique CDR3 6 unique J

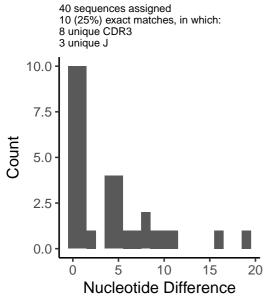
Nucleotide Difference

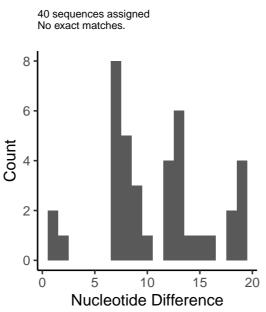
IGHV5-10-1*03

IGHV4-61*01



IGHV6-1*01

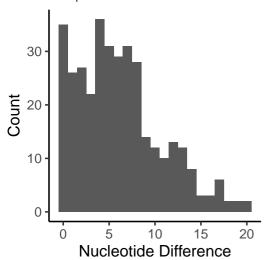




IGHV7-4-1*01

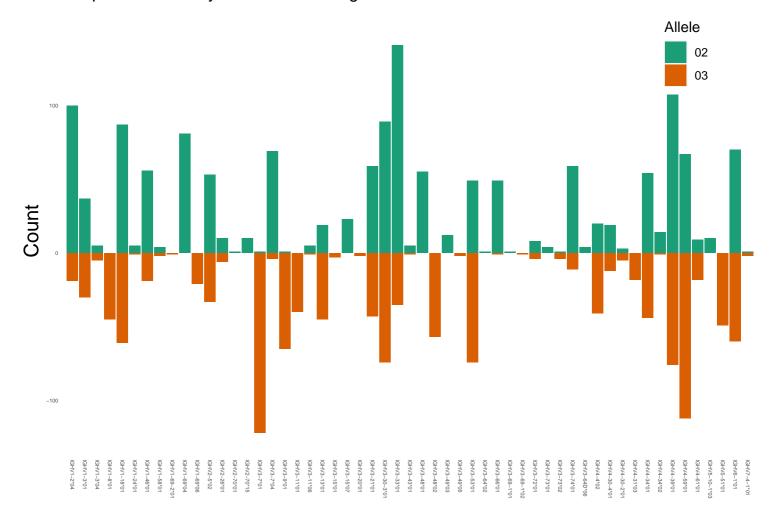
IGHV5-51*01

373 sequences assigned 35 (9.4%) exact matches, in which: 29 unique CDR3 5 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.