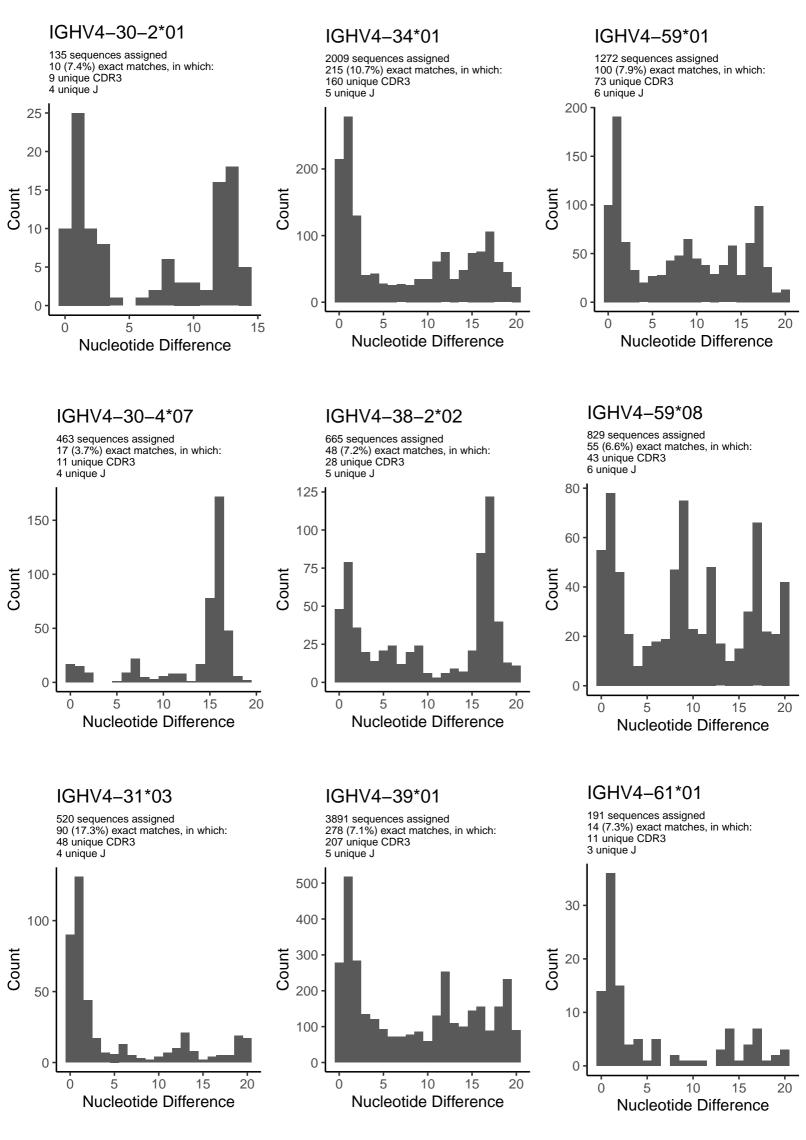
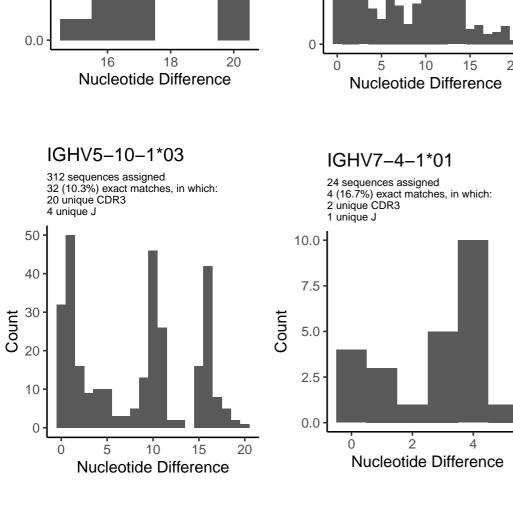
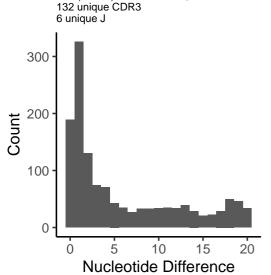


IGHV3-66*01 IGHV3-73*02 IGHV3-64D*06 208 sequences assigned 17 (8.2%) exact matches, in which: 503 sequences assigned 279 sequences assigned 38 (7.6%) exact matches, in which: 30 unique CDR3 14 (5%) exact matches, in which: 15 unique CDR3 12 unique CDR3 5 unique J 4 unique J 4 unique J 60 30 20 15 20 Count Count 10 20 10 5 0 0 0 0 10 15 20 5 10 15 0 15 20 0 5 10 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-72*01 IGHV4-4*02 IGHV3-74*01 316 sequences assigned 280 sequences assigned 1353 sequences assigned 62 (4.6%) exact matches, in which: 3 (0.9%) exact matches, in which: 21 (7.5%) exact matches, in which: 3 unique CDR3 19 unique CDR3 55 unique CDR3 2 unique J 5 unique J 5 unique J 120 20 40 15 80 Count Count 10 20 40 5 0 0 0 5 10 20 0 15 10 15 20 15 20 0 5 0 5 10 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-43D*03 IGHV4-28*07 IGHV3-73*01 72 sequences assigned 3 sequences assigned 111 sequences assigned 7 (9.7%) exact matches, in which: (33.3%) exact matches, in which: 8 (7.2%) exact matches, in which: 5 unique CDR3 1 unique CDR3 7 unique CDR3 2 unique J 1 unique J 3 unique J 2.0 10.0 9 1.5 7.5 Count 6 5.0 1.0 2.5 3 0.5 0.0 0.0 0 10 15 20 0 0.0 0.5 1.0 1.5 -0.515 0 5 10 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference



IGHV6-1*01 IGHV4-61*08 1548 sequences assigned 217 sequences assigned 93 (6%) exact matches, in which: 56 unique CDR3 4 unique J No exact matches. 7.5 150 100 50 0.0 0 18 16 20 20 0 5 10 15 **Nucleotide Difference Nucleotide Difference**





189 (12.2%) exact matches, in which:

IGHV5-51*01 1543 sequences assigned



