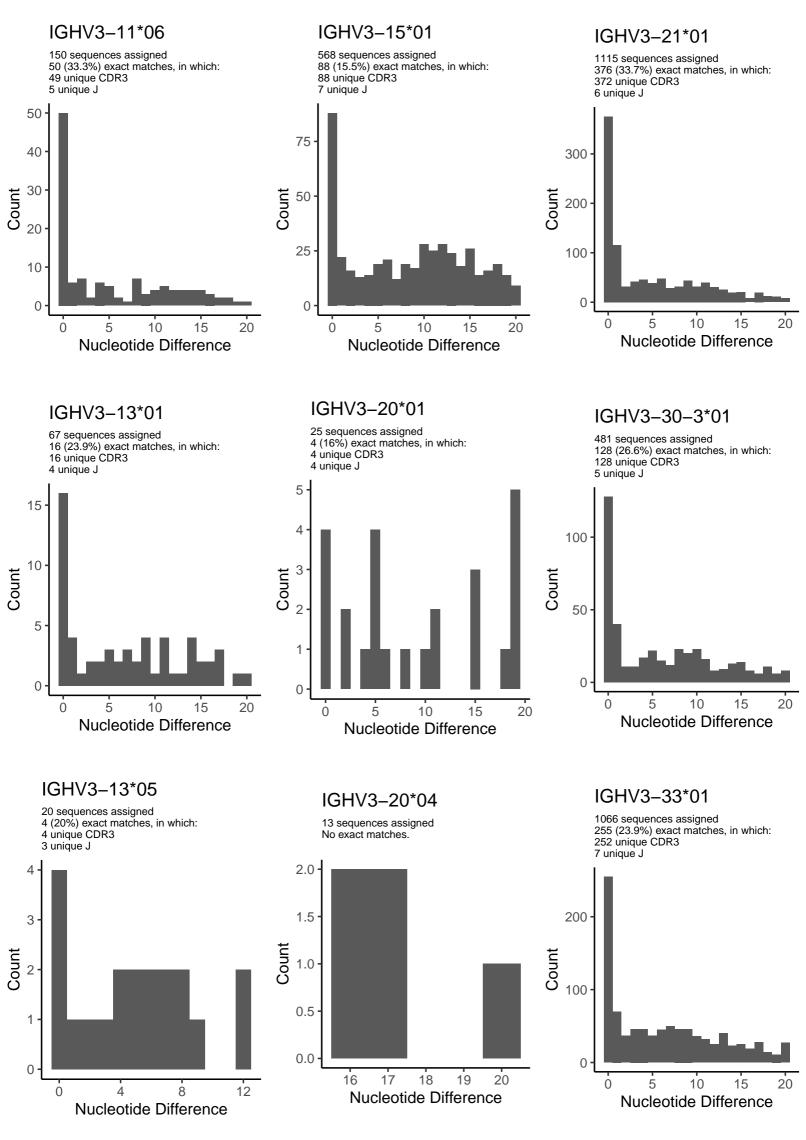
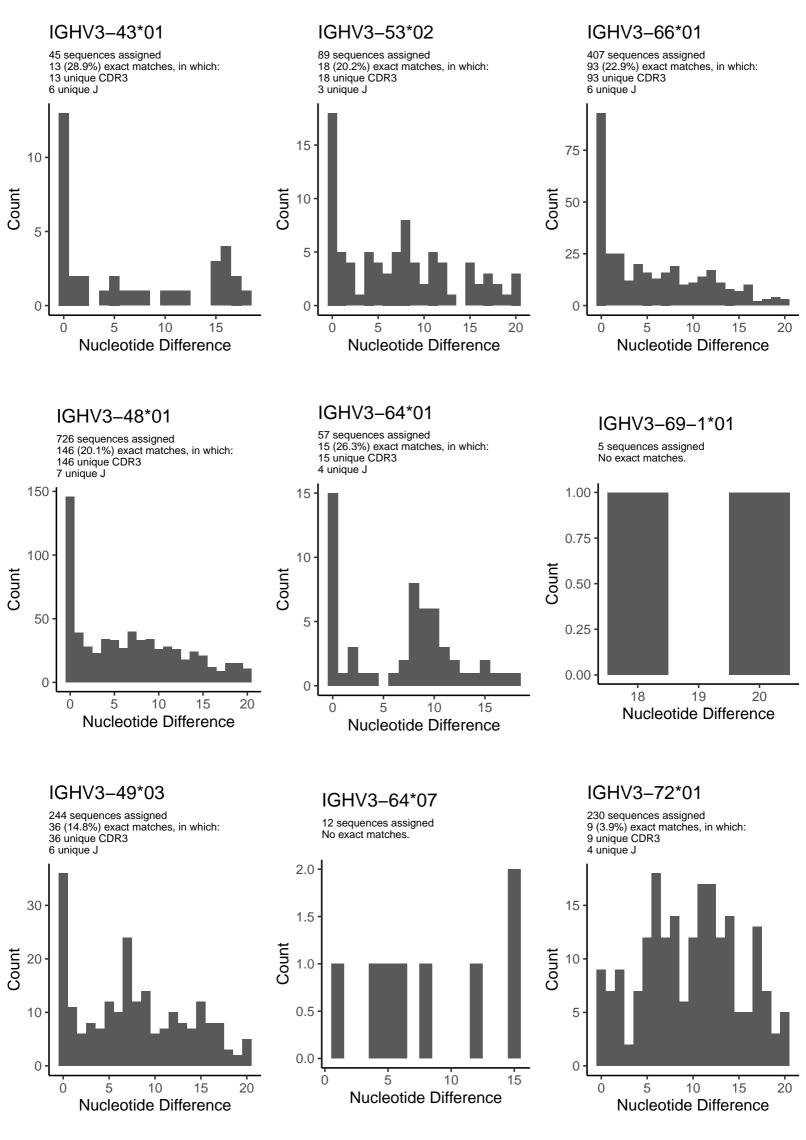
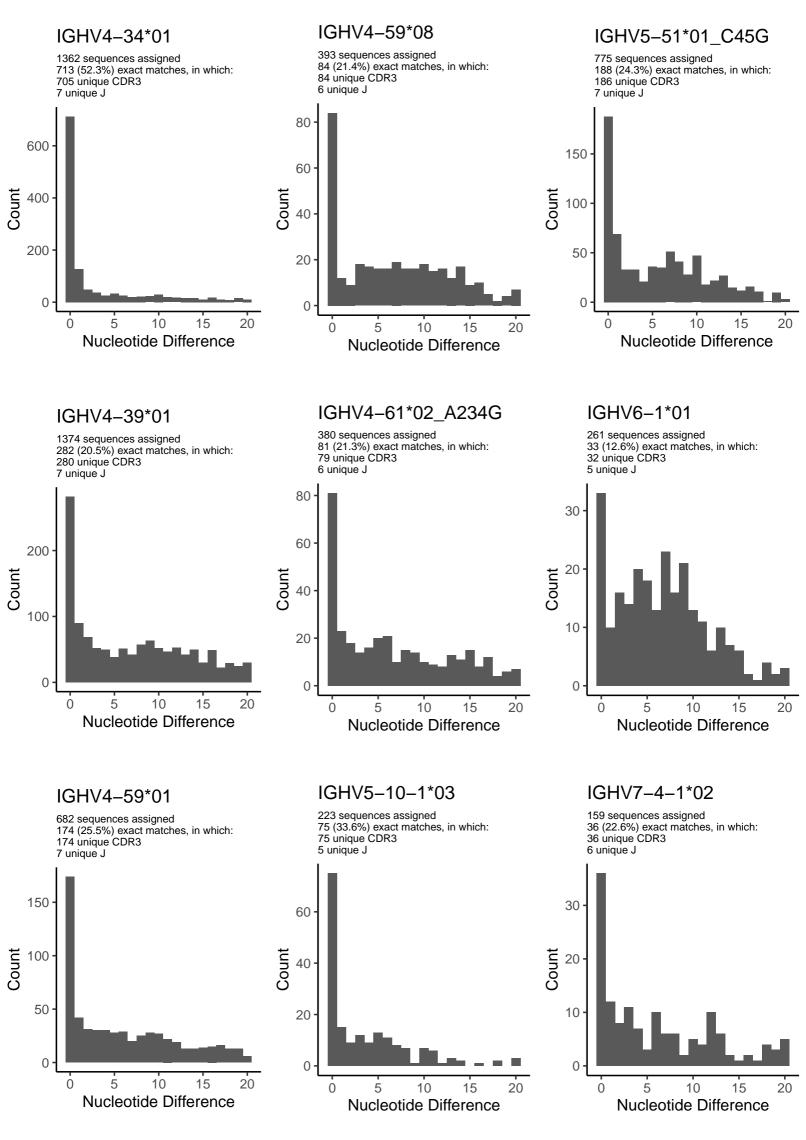


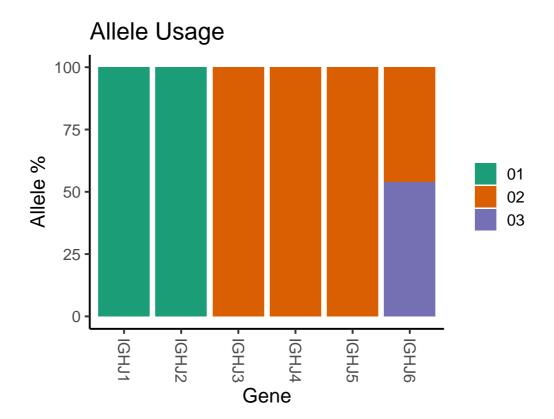
IGHV2-5*01 IGHV3-7*03 IGHV2-70*01 771 sequences assigned 84 (10.9%) exact matches, in which: 227 sequences assigned 38 (16.7%) exact matches, in which: 26 sequences assigned 10 (38.5%) exact matches, in which: 83 unique CDR3 38 unique CDR3 10 unique CDR3 4 unique J 6 unique J 4 unique J 10.0 80 30 7.5 60 Count Count 5.0 40 10 2.5 20 0.0 0 0 5 15 10 0 10 15 5 10 15 20 0 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV2-5*02 IGHV2-70*15 IGHV3-9*01 234 sequences assigned 112 sequences assigned 29 (25.9%) exact matches, in which: 554 sequences assigned 141 (25.5%) exact matches, in which: 41 (17.5%) exact matches, in which: 28 unique CDR3 41 unique CDR3 141 unique CDR3 5 unique J 5 unique J 6 unique J 30 30 100 20 Count Count Count 20 50 10 10 0 0 0 10 15 20 0 5 10 15 20 0 10 15 0 5 20 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-26*01 IGHV3-7*01 IGHV3-11*01 118 sequences assigned 668 sequences assigned 289 sequences assigned 79 (11.8%) exact matches, in which: 71 (24.6%) exact matches, in which: 36 (30.5%) exact matches, in which: 36 unique CDR3 7 unique J 79 unique CDR3 71 unique CDR3 6 unique J 5 unique J 80 60 30 60 Count Count 40 20 40 20 10 20 0 0 0 0 10 15 20 0 5 10 15 20 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference





IGHV3-73*01 IGHV3-64D*06 IGHV4-30-4*01 105 sequences assigned 15 (14.3%) exact matches, in which: 131 sequences assigned 32 (24.4%) exact matches, in which: 200 sequences assigned 18 (9%) exact matches, in which: 18 unique CDR3 15 unique CDR3 32 unique CDR3 5 unique J 4 unique J 3 unique J 15 30 15 10 Count Count Count 5 10 5 0 0 0 10 0 10 15 20 0 5 15 20 5 0 5 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV4-4*07 IGHV4-30-2*01 IGHV3-73*02 190 sequences assigned 47 (24.7%) exact matches, in which: 83 sequences assigned 71 sequences assigned 20 (24.1%) exact matches, in which: 12 (16.9%) exact matches, in which: 47 unique CDR3 19 unique CDR3 12 unique CDR3 6 unique J 4 unique J 3 unique J 12.5 20 40 10.0 15 30 7.5 Count Count 10 20 5.0 5 2.5 10 0.0 0 0 20 15 5 10 0 10 15 20 10 0 5 0 5 15 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV3-74*01 IGHV4-31*03 IGHV4-28*05 522 sequences assigned 651 sequences assigned 47 (9%) exact matches, in which: 1 sequences assigned 213 (32.7%) exact matches, in which: 46 unique CDR3 No exact matches. 213 unique CDR3 5 unique J 7 unique J 1.00 200 40 0.75 150 30 Count Count 0.50 100 0.25 50 10 0.00 0 0 19.00 19.25 19.50 18.50 18.75 10 15 20 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference





Sequence Count by IGHJ6 allele usage

