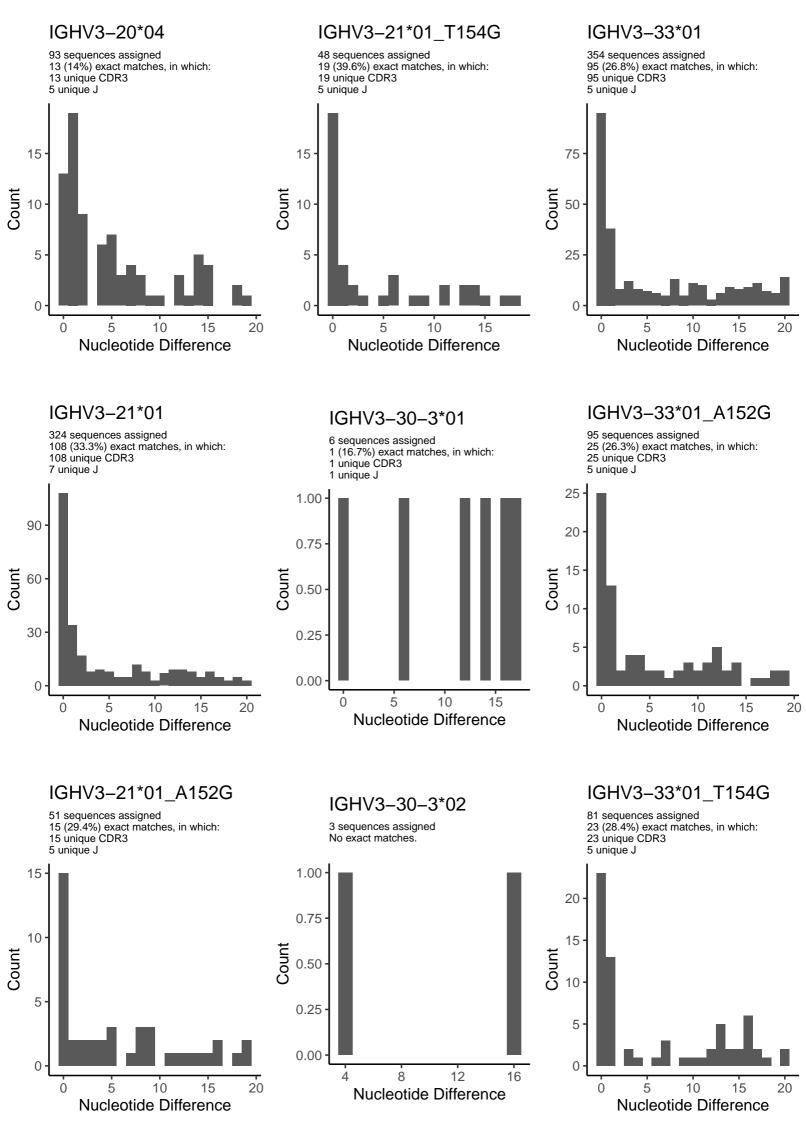
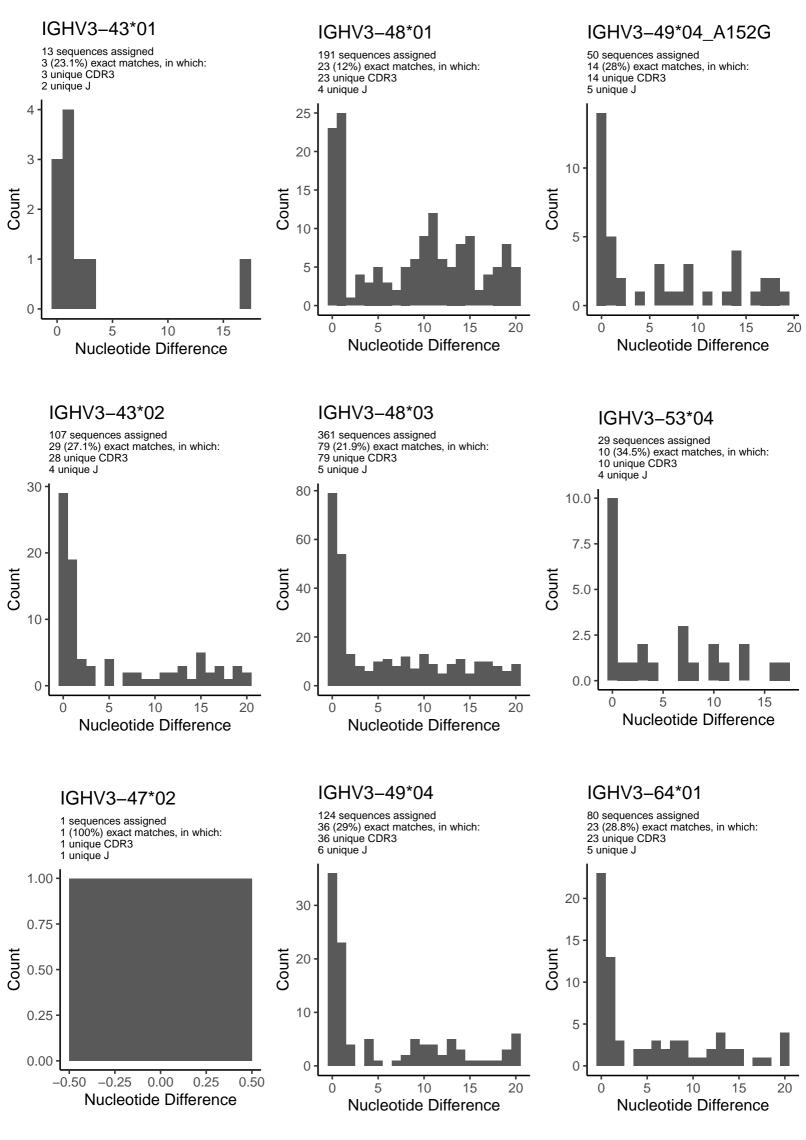
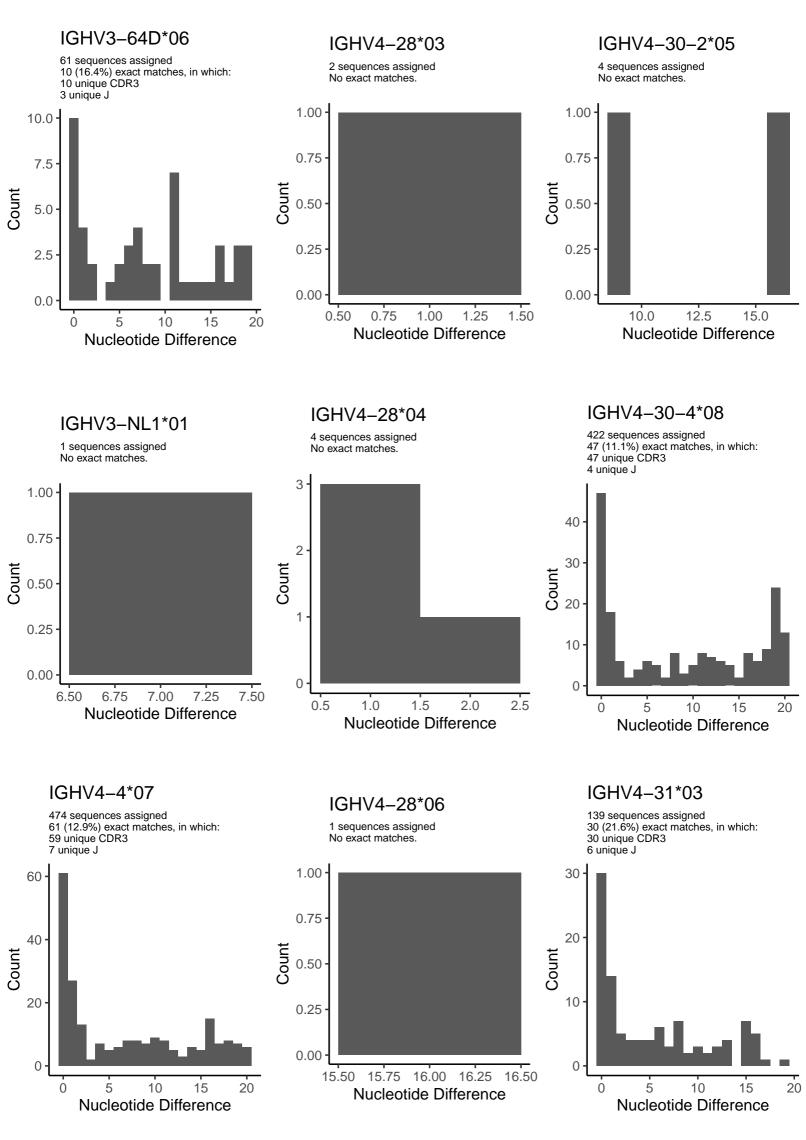


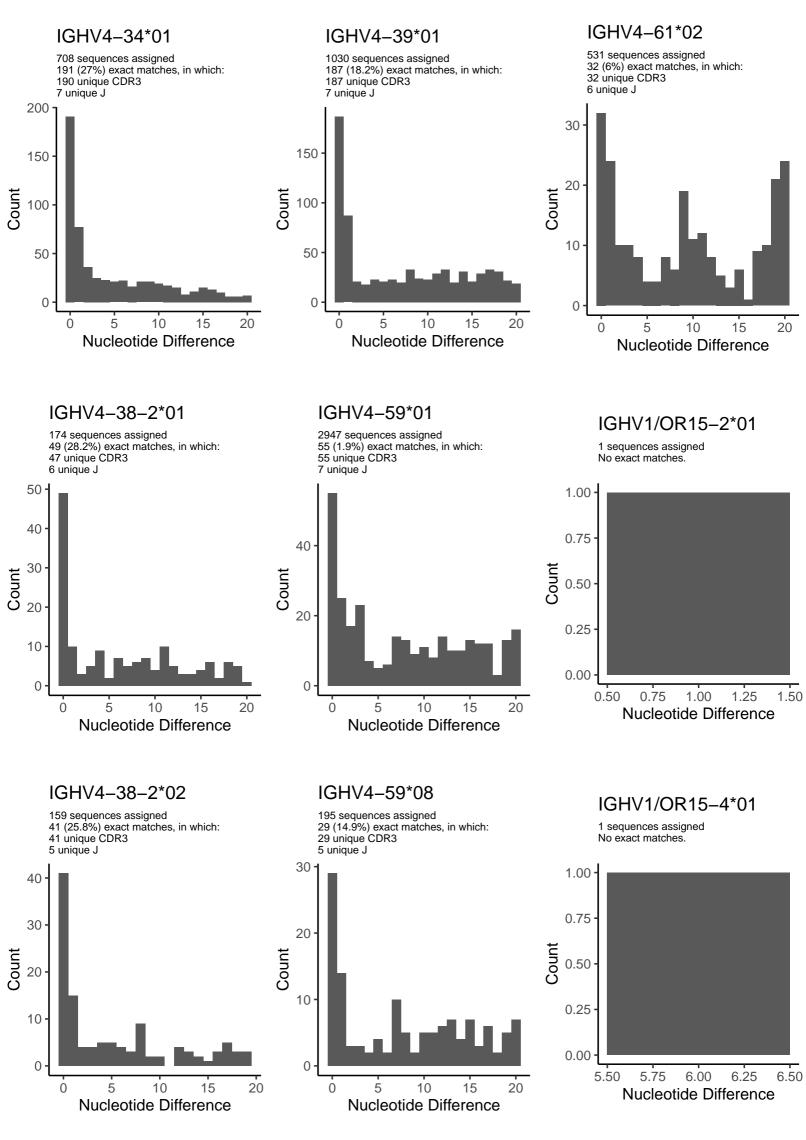
IGHV3-7*01 IGHV3-13*01 IGHV3-9*03 296 sequences assigned 33 (11.1%) exact matches, in which: 71 sequences assigned 36 sequences assigned No exact matches. 10 (27.8%) exact matches, in which: 33 unique CDR3 10 unique CDR3 5 unique J 3 unique J 10.0 30 6 7.5 Count Count 5.0 2 10 2.5 0.0 0 0 15 20 10 5 0 10 15 20 5 0 10 15 5 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-7*04 IGHV3-11*04 IGHV3-15*01 137 sequences assigned 111 sequences assigned 18 (16.2%) exact matches, in which: 145 sequences assigned 26 (17.9%) exact matches, in which: 21 (15.3%) exact matches, in which: 21 unique CDR3 18 unique CDR3 25 unique CDR3 5 unique J 5 unique J 5 unique J 20 15 20 15 Count Count 10 10 10 5 5 0 0 0 10 10 15 10 15 20 0 5 15 20 0 5 20 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-9*01 IGHV3-15*07 IGHV3-11*06 22 sequences assigned 1 (4.5%) exact matches, in which: 323 sequences assigned 47 sequences assigned 5 (10.6%) exact matches, in which: 51 (15.8%) exact matches, in which: 1 unique CDR3 5 unique CDR3 50 unique CDR3 1 unique J 5 unique J 3 unique J 7.5 40 3 Count 30 5.0 20 2.5 10 0.0 0 0 10 15 20 5 0 0 10 15 20 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference

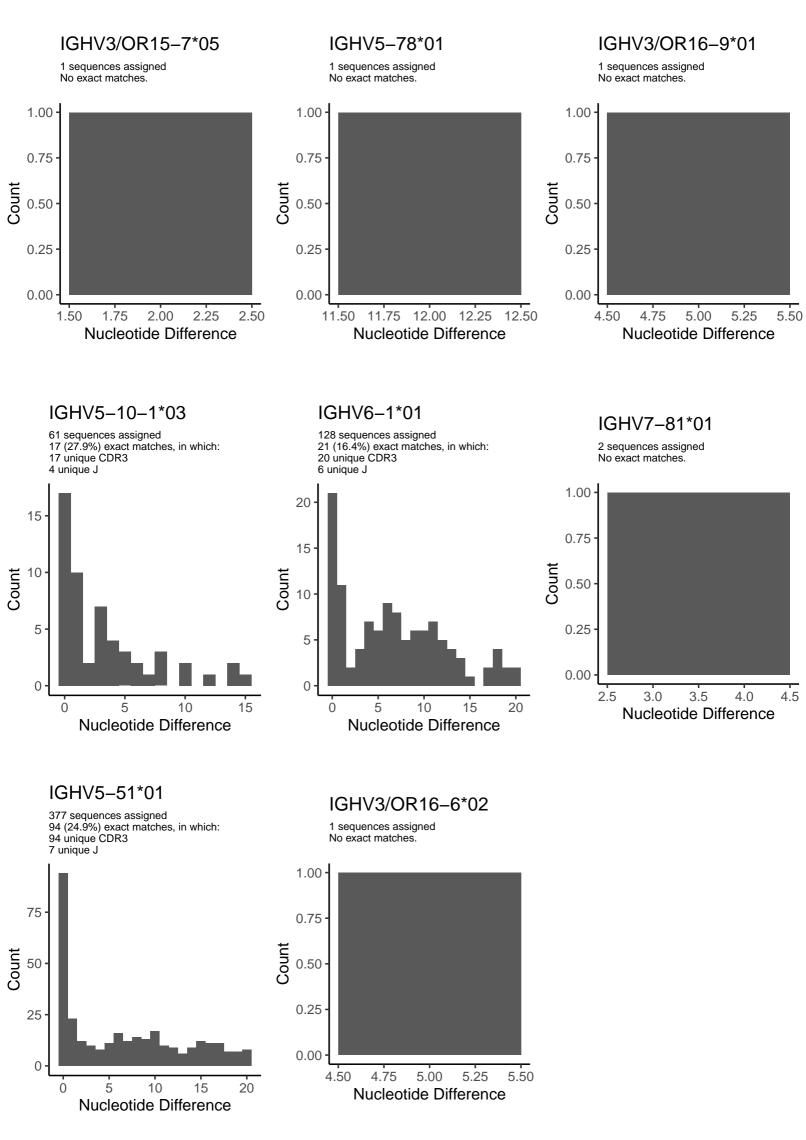


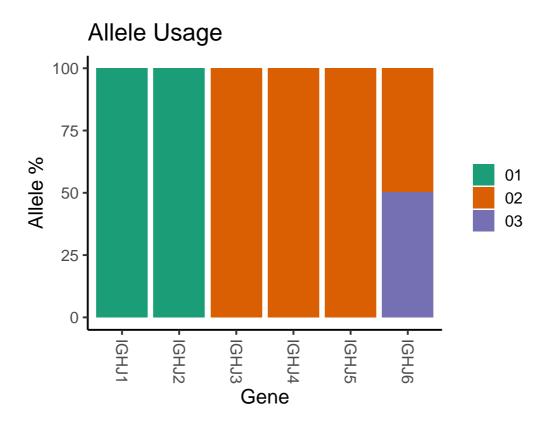


IGHV3-66*01 IGHV3-74*01 IGHV3-71*02 203 sequences assigned 37 (18.2%) exact matches, in which: 396 sequences assigned 32 (8.1%) exact matches, in which: 1 sequences assigned 36 unique CDR3 No exact matches. 32 unique CDR3 5 unique J 5 unique J 1.00 -30 30 0.75 Count Count 0.50 10 0.25 10 0.00 0 0 1.25 0.50 0.75 1.00 1.50 10 15 10 15 20 0 5 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-72*01 IGHV3-43D*03 IGHV3-66*02 12 sequences assigned 4 (33.3%) exact matches, in which: 4 unique CDR3 92 sequences assigned 3 (3.3%) exact matches, in which: 3 unique CDR3 96 sequences assigned 12 (12.5%) exact matches, in which: 12 unique CDR3 1 unique J 2 unique J 5 unique J 12.5 6 10.0 3 7.5 Count Count 2 5.0 2 1 2.5 0.0 0 0 20 5 10 15 0 10 10 15 20 0 5 15 20 0 5 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-43D*04 IGHV3-73*01 IGHV3-69-1*01 19 sequences assigned 68 sequences assigned 4 (21.1%) exact matches, in which: 4 unique CDR3 1 sequences assigned 15 (22.1%) exact matches, in which: No exact matches. 15 unique CDR3 3 unique J 4 unique J 1.00 15 0.75 3 10 Count O.50 2 5 0.25 1 0.00 0 0 9.75 10.00 10.25 10.50 9.50 0 5 10 15 20 10 0 5 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference









Sequence Count by IGHJ6 allele usage

