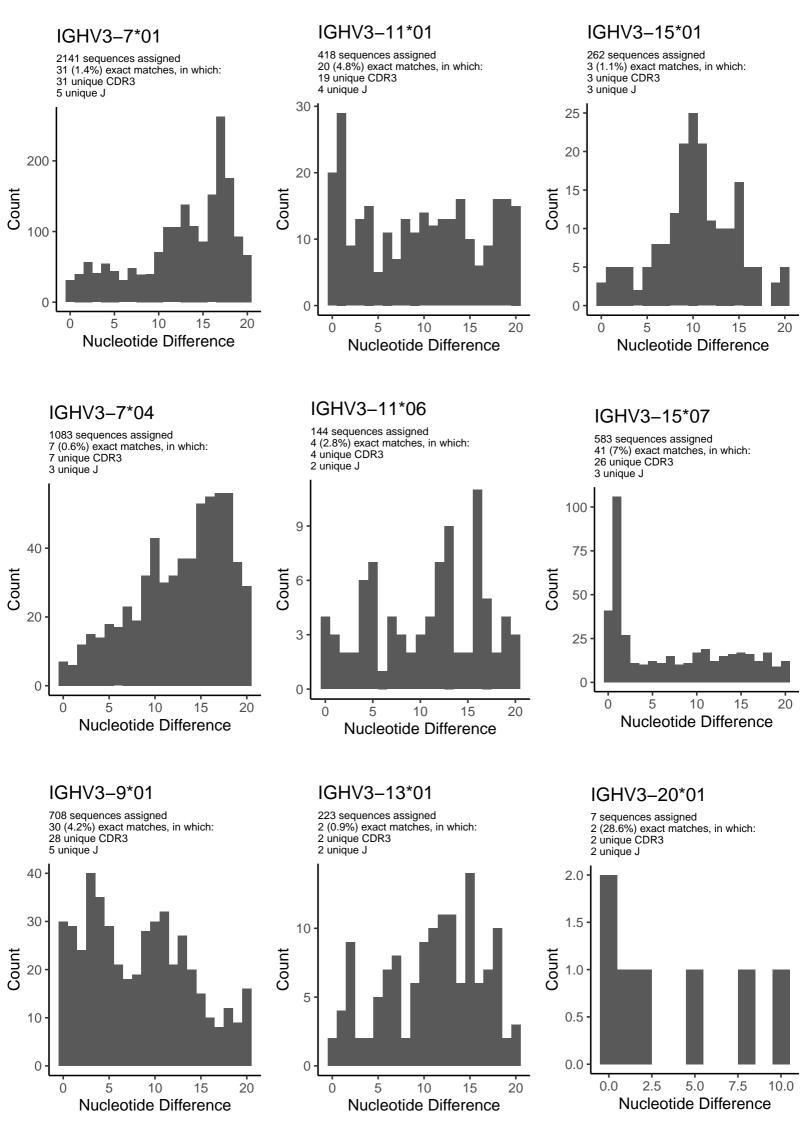
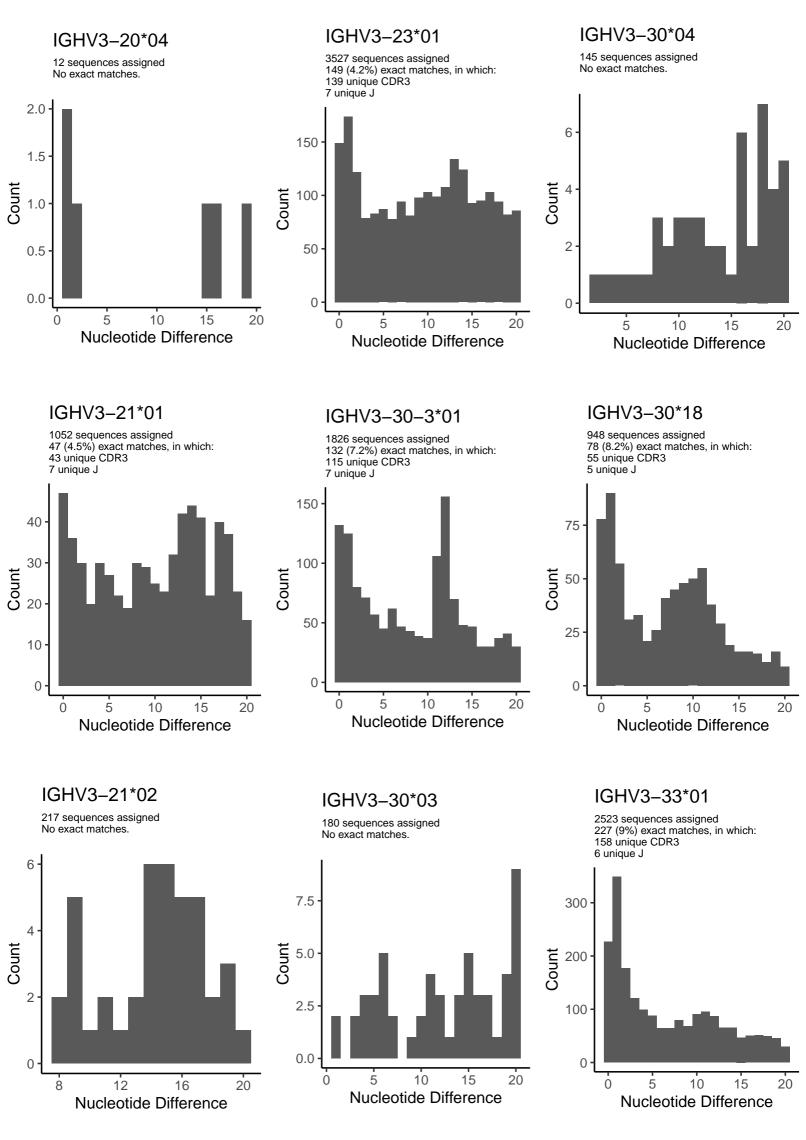
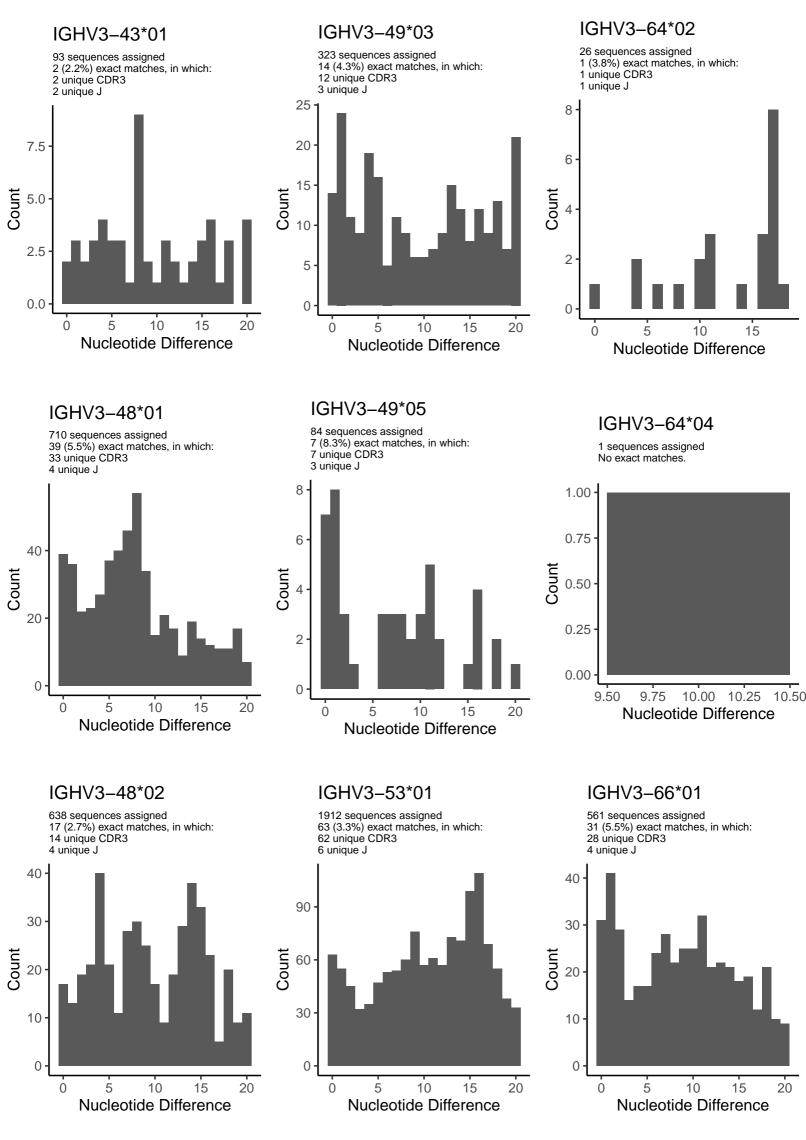
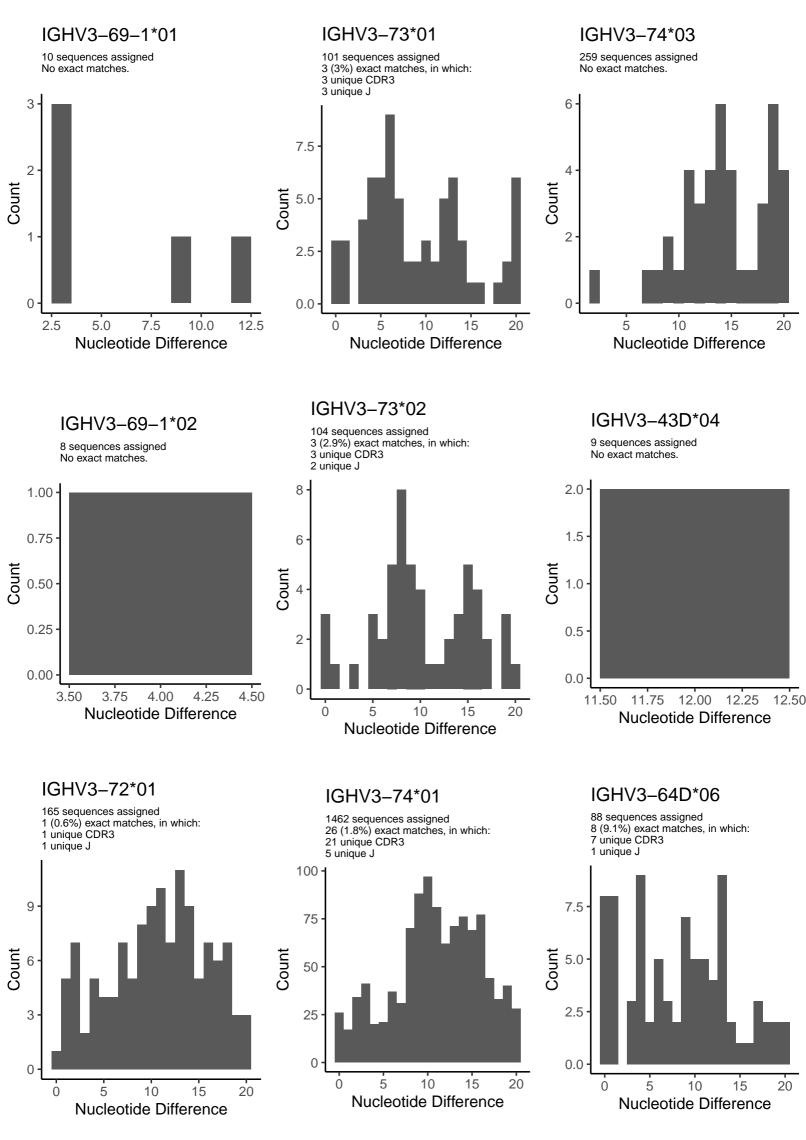
IGHV1-2*04 IGHV1-8*01 IGHV1-46*01 508 sequences assigned 36 (7.1%) exact matches, in which: 28 unique CDR3 939 sequences assigned 53 (5.6%) exact matches, in which: 1480 sequences assigned 88 (5.9%) exact matches, in which: 50 unique CDR3 83 unique CDR3 5 unique J 6 unique J 6 unique J 40 75 40 30 Count Count 50 20 20 25 10 0 0 0 10 15 20 0 10 15 20 5 10 15 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-3*01 IGHV1-18*01 IGHV1-58*01 1337 sequences assigned 5097 sequences assigned 90 sequences assigned 110 (8.2%) exact matches, in which: 223 (4.4%) exact matches, in which: 5 (5.6%) exact matches, in which: 101 unique CDR3 197 unique CDR3 5 uniqué CDR3 6 unique J 7 unique J 3 unique J 10.0 200 90 7.5 150 Count Count 5.0 100 30 2.5 50 0.0 0 0 20 5 10 15 5 10 15 20 0 0 10 15 20 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-3*04 IGHV1-24*01 IGHV1-68*02 371 sequences assigned 957 sequences assigned 67 (7%) exact matches, in which: 1 sequences assigned 1 (0.3%) exact matches, in which: 1 unique CDR3 No exact matches. 61 unique CDR3 1 unique J 7 unique J 250 1.00 30 200 0.75 150 Count 0.50 100 10 0.25 50 0.00 0 0 4.75 5.00 5.25 5.50 4.50 5 10 15 20 0 10 0 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

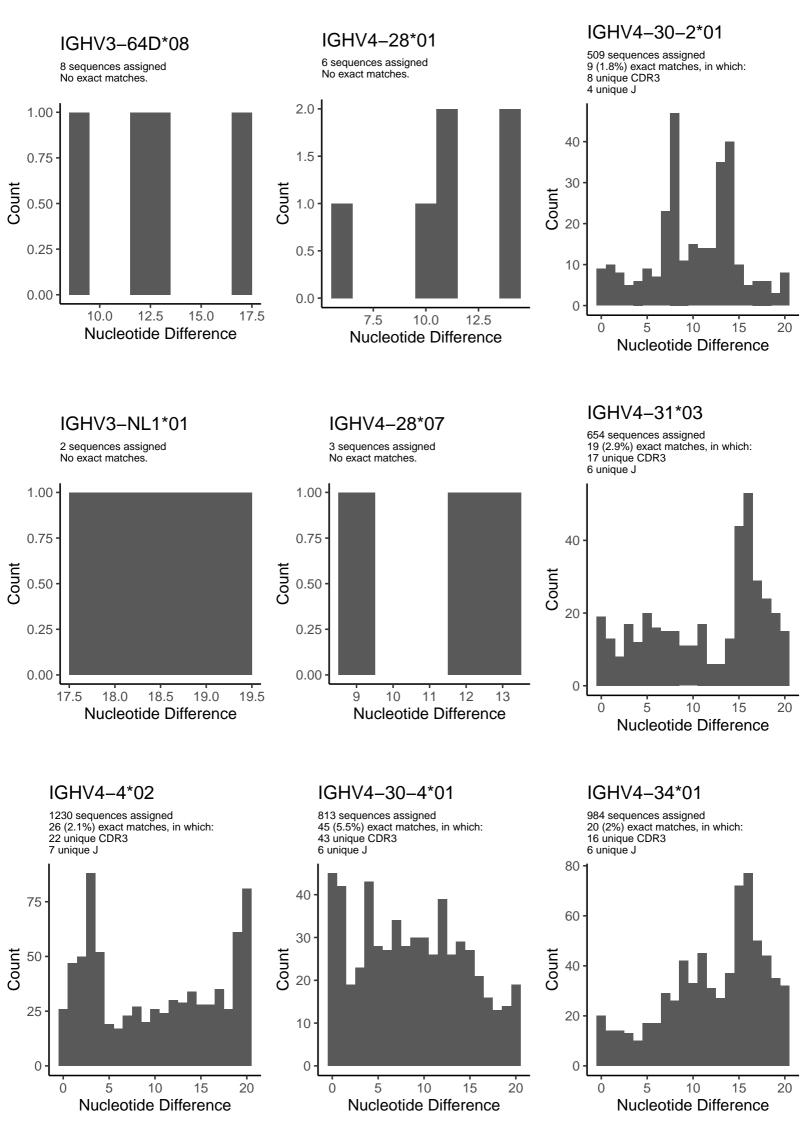
IGHV1-69*01 IGHV1-69*06 IGHV2-70*01 738 sequences assigned 49 (6.6%) exact matches, in which: 868 sequences assigned 74 sequences assigned 46 (5.3%) exact matches, in which: 10 (13.5%) exact matches, in which: 44 unique CDR3 40 unique CDR3 10 unique CDR3 6 unique J 4 unique J 4 unique J 10.0 40 7.5 40 30 Count Count 5.0 20 2.5 10 0.0 0 0 20 5 10 15 0 10 0 10 15 20 0 15 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV1-69-2*01 IGHV2-70*04 IGHV2-5*02 127 sequences assigned 99 sequences assigned 1368 sequences assigned 79 (5.8%) exact matches, in which: 4 (3.1%) exact matches, in which: 4 (4%) exact matches, in which: 4 unique CDR3 4 unique CDR3 74 ùniqué CDR3 3 unique J 3 unique J 5 unique J 100 15 10 75 Count Count Count 10 50 5 5 25 0 0 0 5 10 20 0 15 10 15 20 10 15 20 0 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-69*04 IGHV2-26*01 IGHV2-70*15 1228 sequences assigned 125 sequences assigned 1067 sequences assigned 92 (7.5%) exact matches, in which: 20 (16%) exact matches, in which: 208 (19.5%) exact matches, in which: 89 unique CDR3 19 unique CDR3 77 unique CDR3 6 unique J 6 unique J 4 unique J 500 20 75 400 15 300 Count 50 10 200 25 5 100 0 0 0 5 10 15 0 10 15 20 0 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**

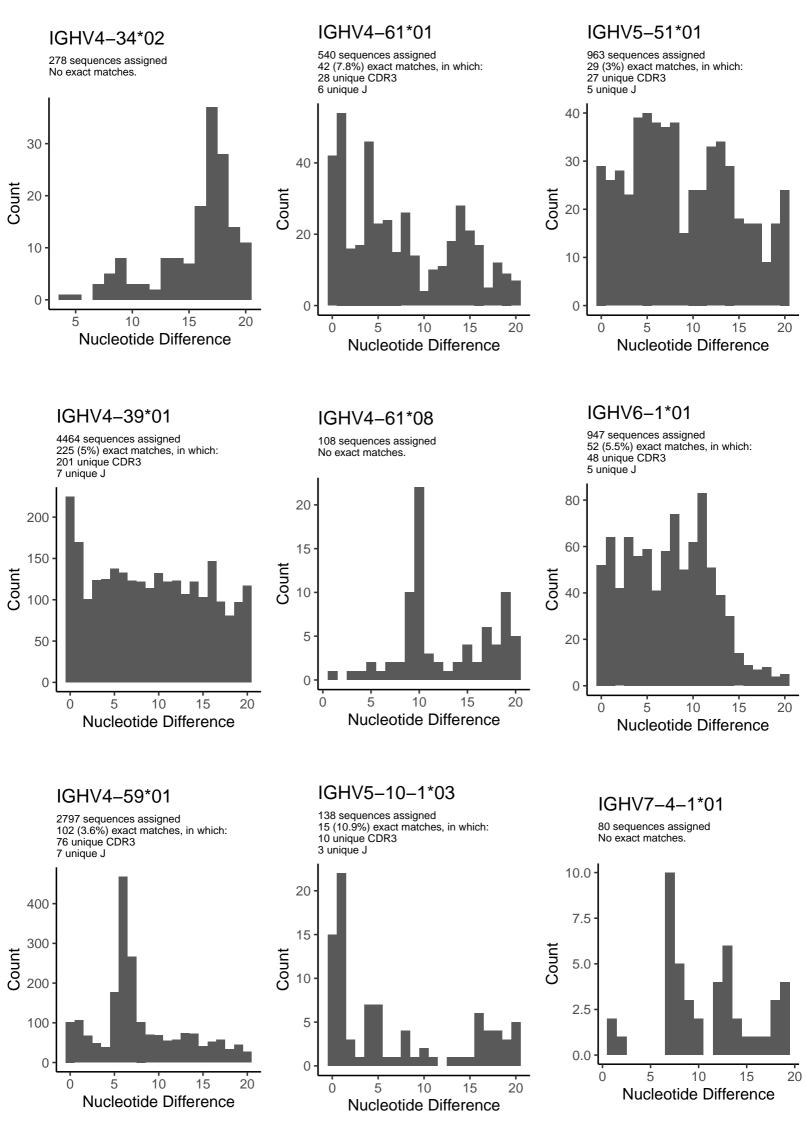


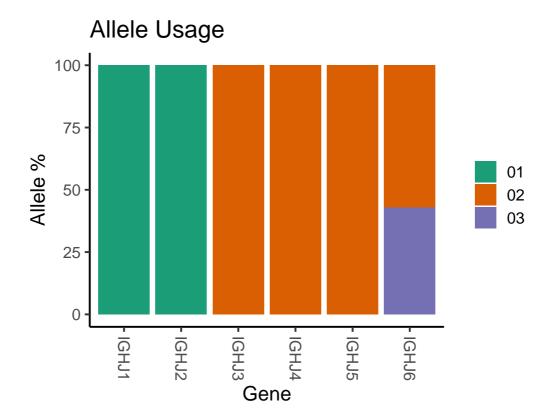












Sequence Count by IGHJ6 allele usage

