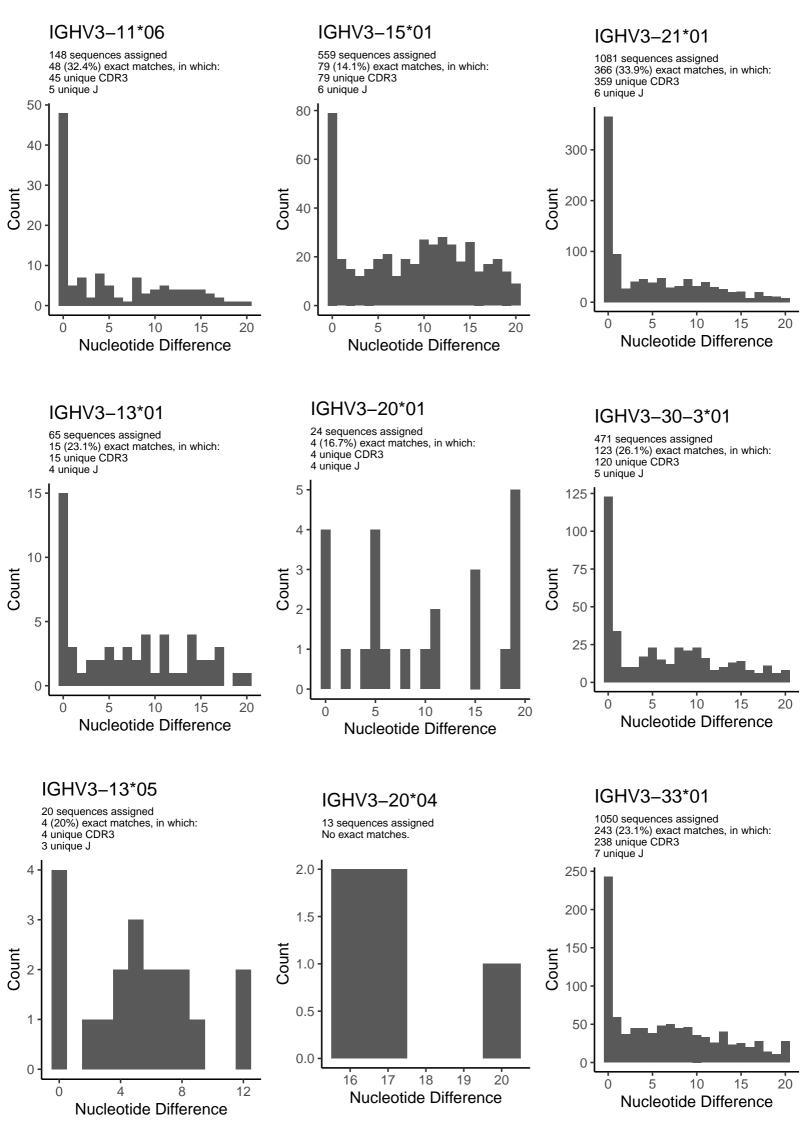
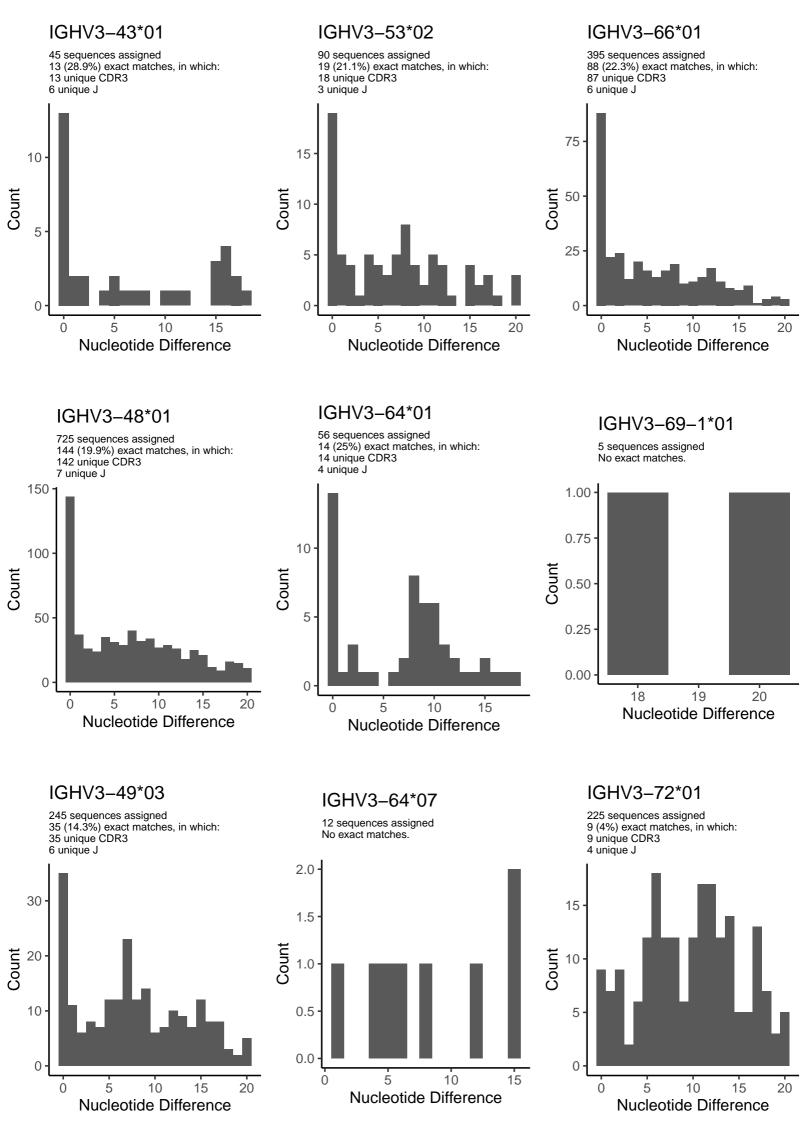
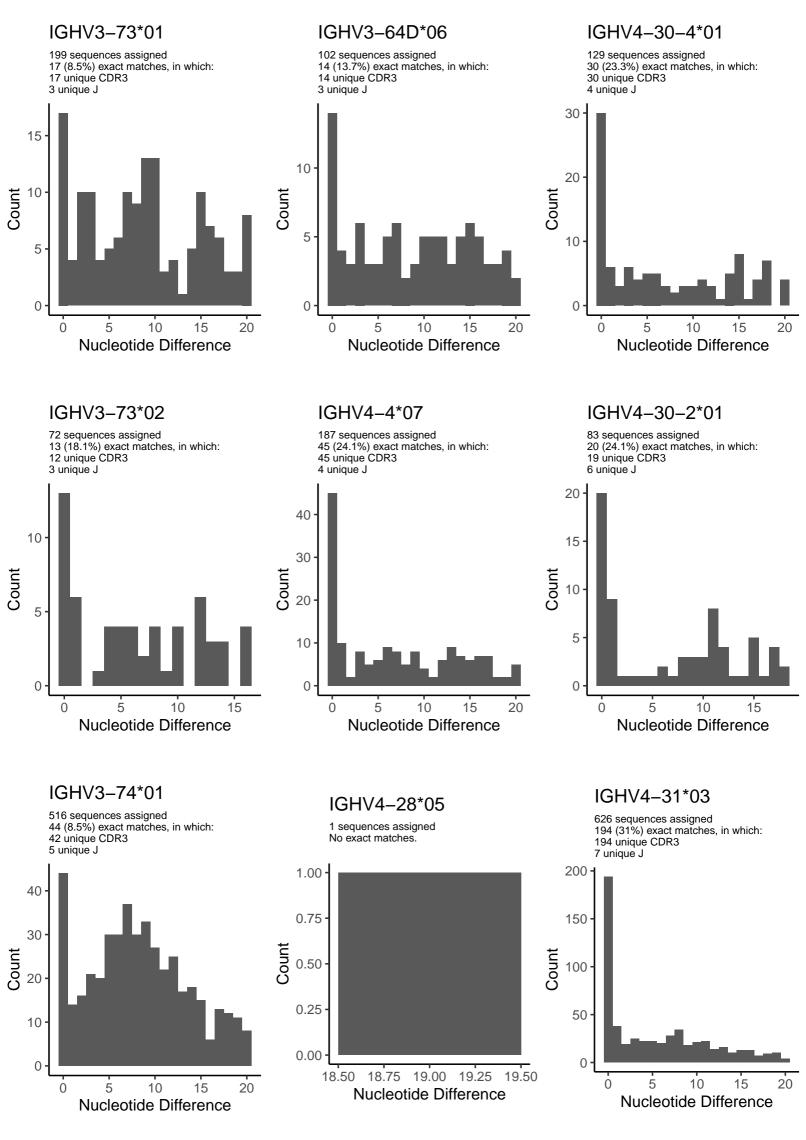
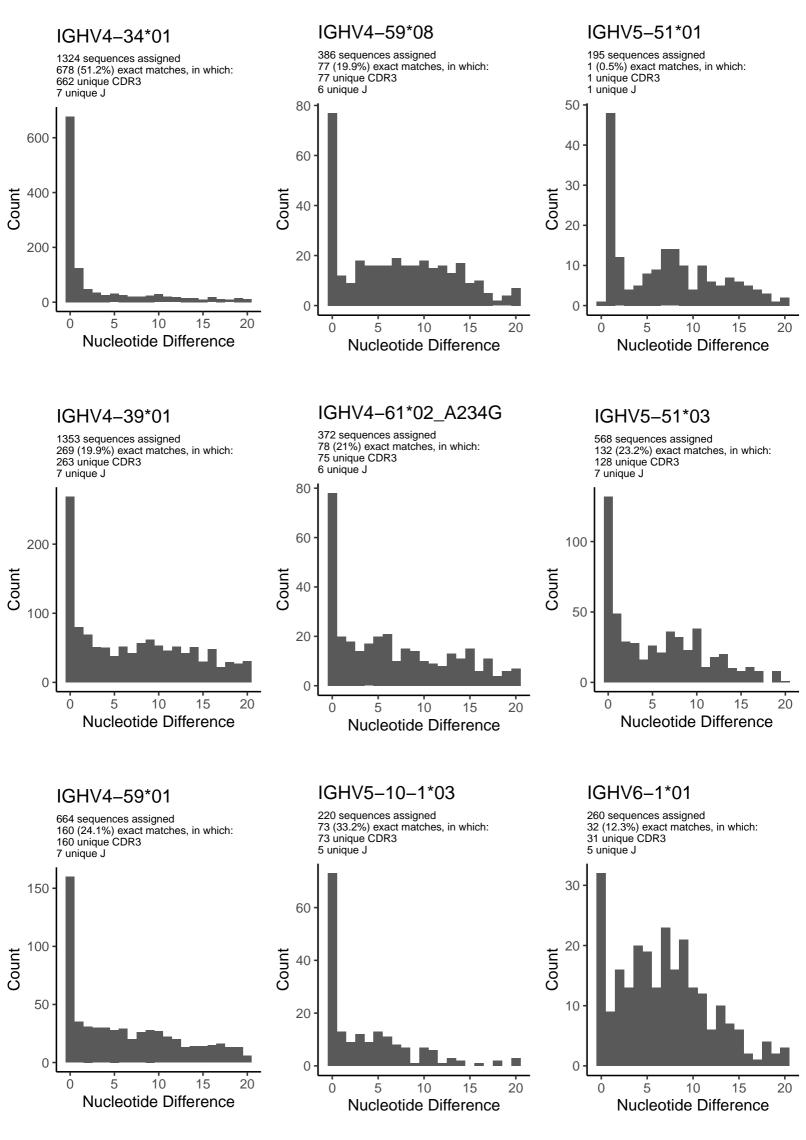


IGHV2-5*01 IGHV3-7*03 IGHV2-70*01 774 sequences assigned 226 sequences assigned 25 sequences assigned 34 (15%) exact matches, in which: 82 (10.6%) exact matches, in which: 9 (36%) exact matches, in which: 34 unique CDR3 9 unique CDR3 81 unique CDR3 4 unique J 4 unique J 6 unique J 30 7.5 60 Count Count 5.0 40 10 2.5 20 0.0 0 0 10 0 15 10 15 5 5 10 15 20 0 20 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV2-5*02 IGHV2-70*15 IGHV3-9*01 229 sequences assigned 36 (15.7%) exact matches, in which: 111 sequences assigned 537 sequences assigned 131 (24.4%) exact matches, in which: 28 (25.2%) exact matches, in which: 27 unique CDR3 36 unique CDR3 131 unique CDR3 5 unique J 5 unique J 6 unique J 30 100 20 Count Count 20 50 10 10 0 0 0 10 15 20 0 5 10 15 20 0 10 15 0 20 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-26*01 IGHV3-7*01 IGHV3-11*01 112 sequences assigned 665 sequences assigned 280 sequences assigned 77 (11.6%) exact matches, in which: 66 (23.6%) exact matches, in which: 34 (30.4%) exact matches, in which: 34 unique CDR3 7 unique J 77 unique CDR3 66 unique CDR3 6 unique J 5 unique J 80 60 30 60 40 Count Count Count 40 20 10 20 0 0 0 0 5 10 15 20 0 5 10 15 20 0 5 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference



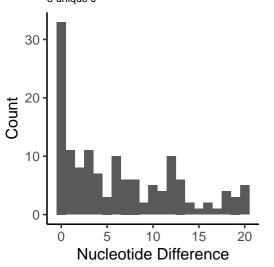


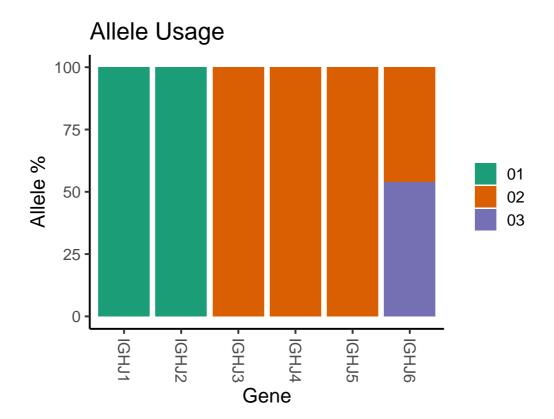




IGHV7-4-1*02

155 sequences assigned 33 (21.3%) exact matches, in which: 33 unique CDR3 6 unique J





Sequence Count by IGHJ6 allele usage



