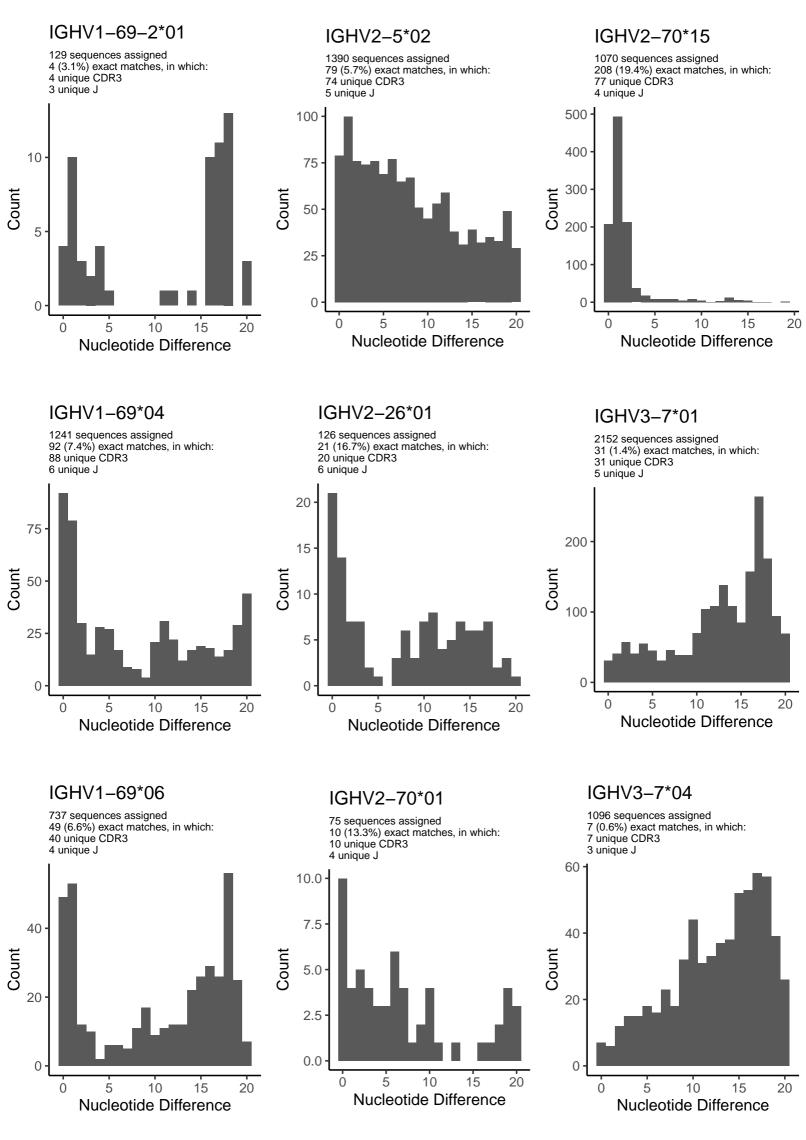
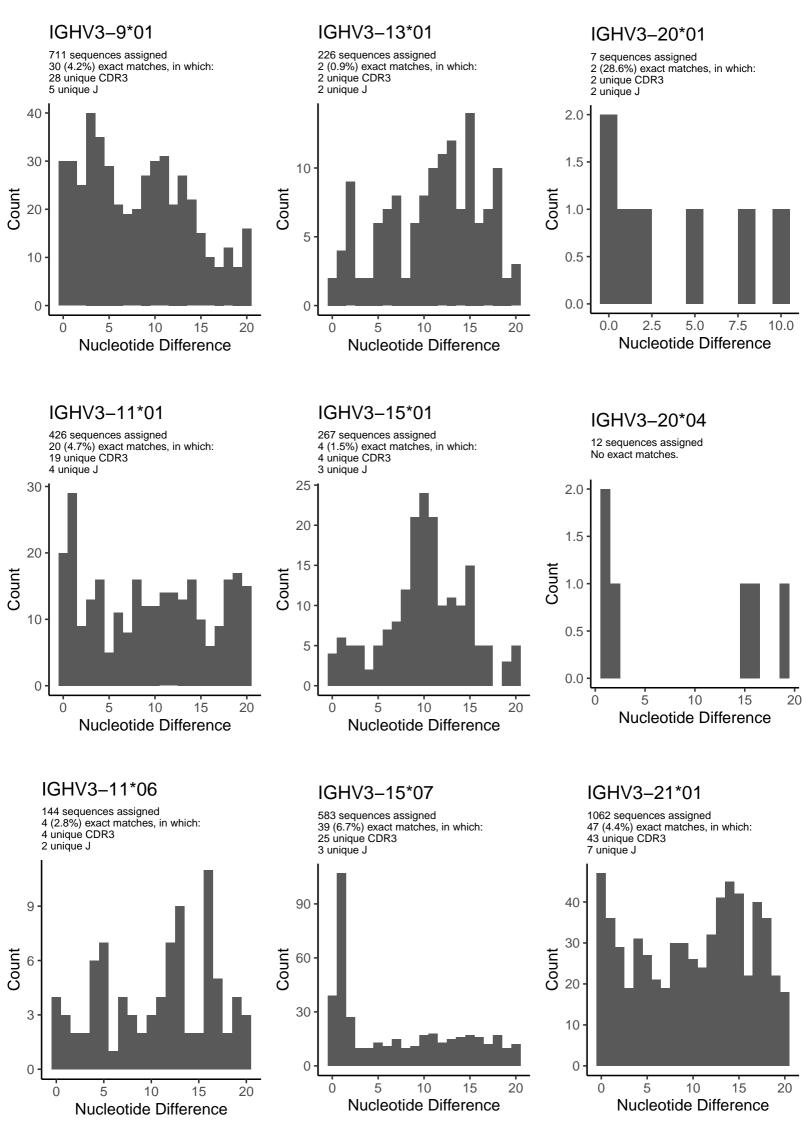
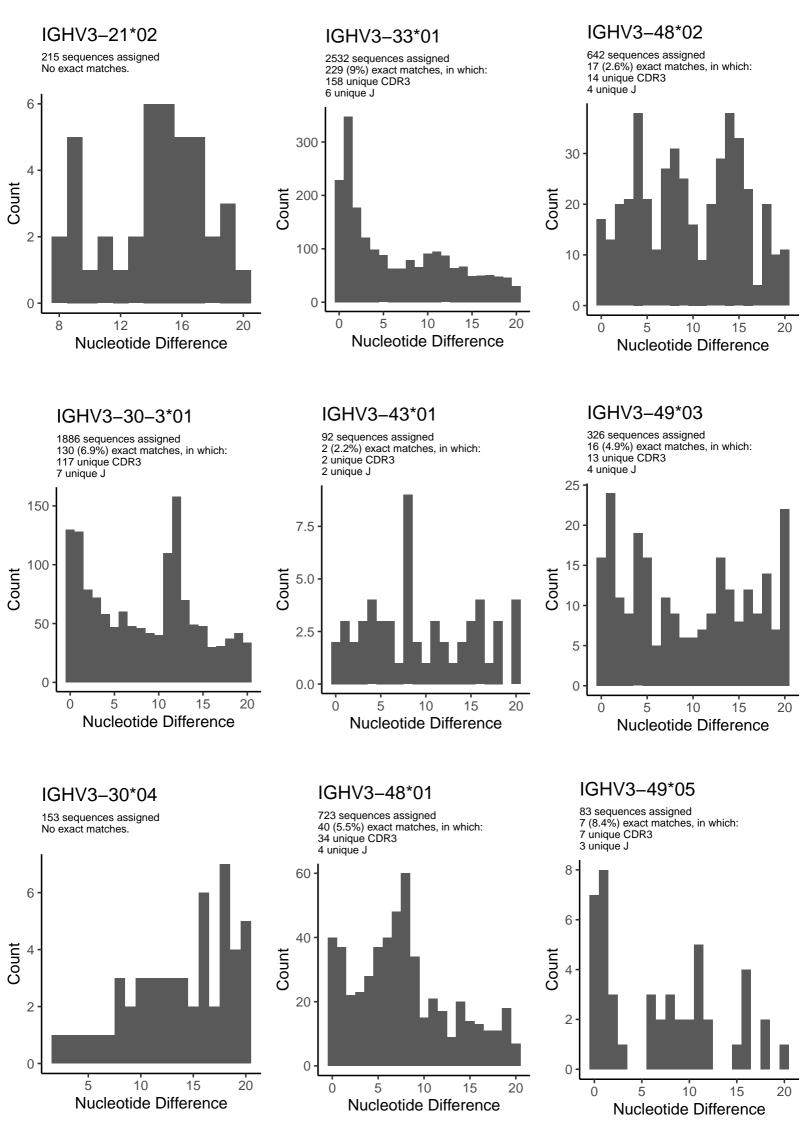
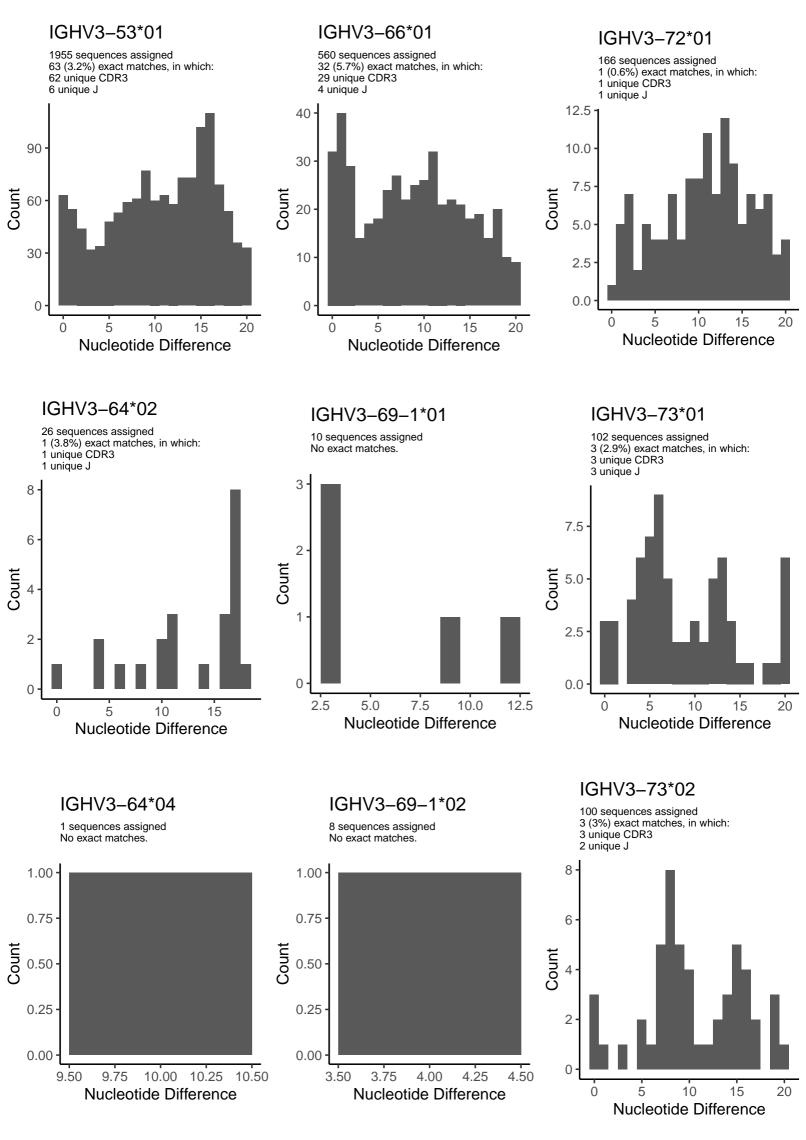
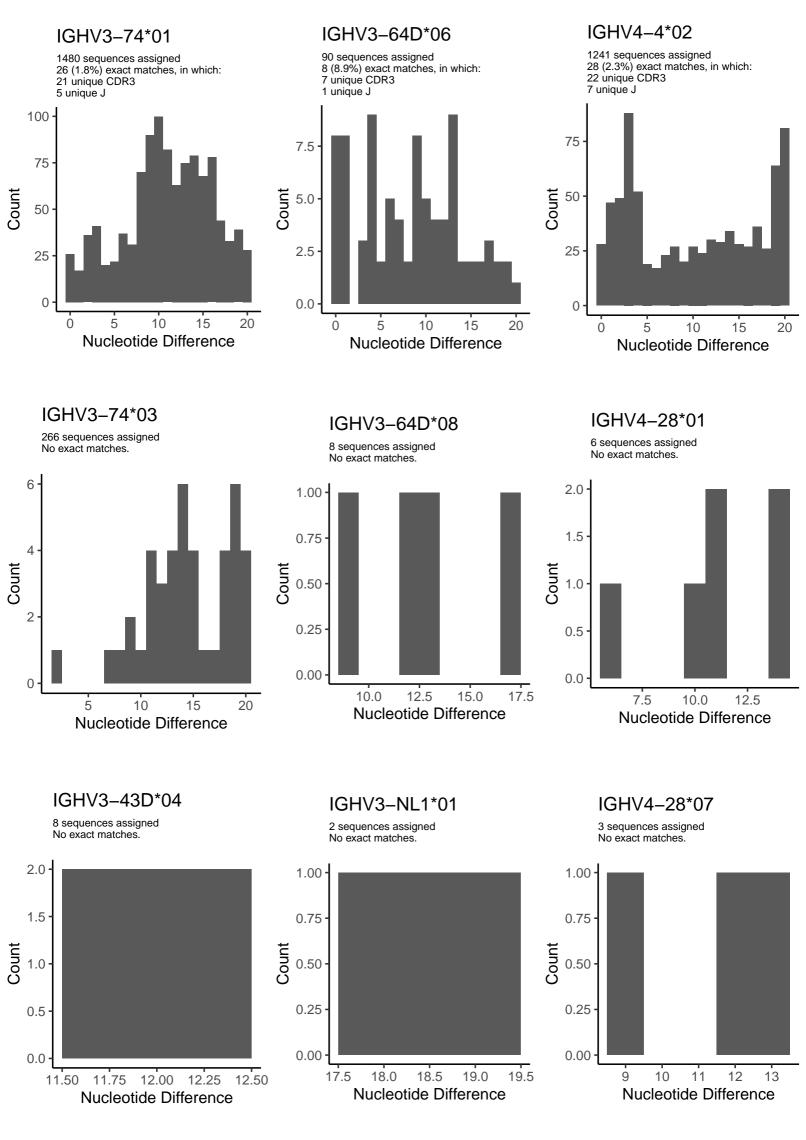
IGHV1-2*04 IGHV1-8*01 IGHV1-46*01 943 sequences assigned 53 (5.6%) exact matches, in which: 512 sequences assigned 1479 sequences assigned 35 (6.8%) exact matches, in which: 88 (5.9%) exact matches, in which: 28 unique CDR3 50 unique CDR3 83 unique CDR3 5 unique J 6 unique J 6 unique J 40 75 40 30 Count Count 50 20 20 25 10 0 0 0 10 15 20 0 5 10 15 20 5 10 15 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-3*01 IGHV1-18*01 IGHV1-58*01 1340 sequences assigned 110 (8.2%) exact matches, in which: 5097 sequences assigned 89 sequences assigned 223 (4.4%) exact matches, in which: 5 (5.6%) exact matches, in which: 101 unique CDR3 198 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*02 373 sequences assigned 961 sequences assigned 1 sequences assigned 1 (0.3%) exact matches, in which: 66 (6.9%) exact matches, in which: unique CDR3 No exact matches. 60 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

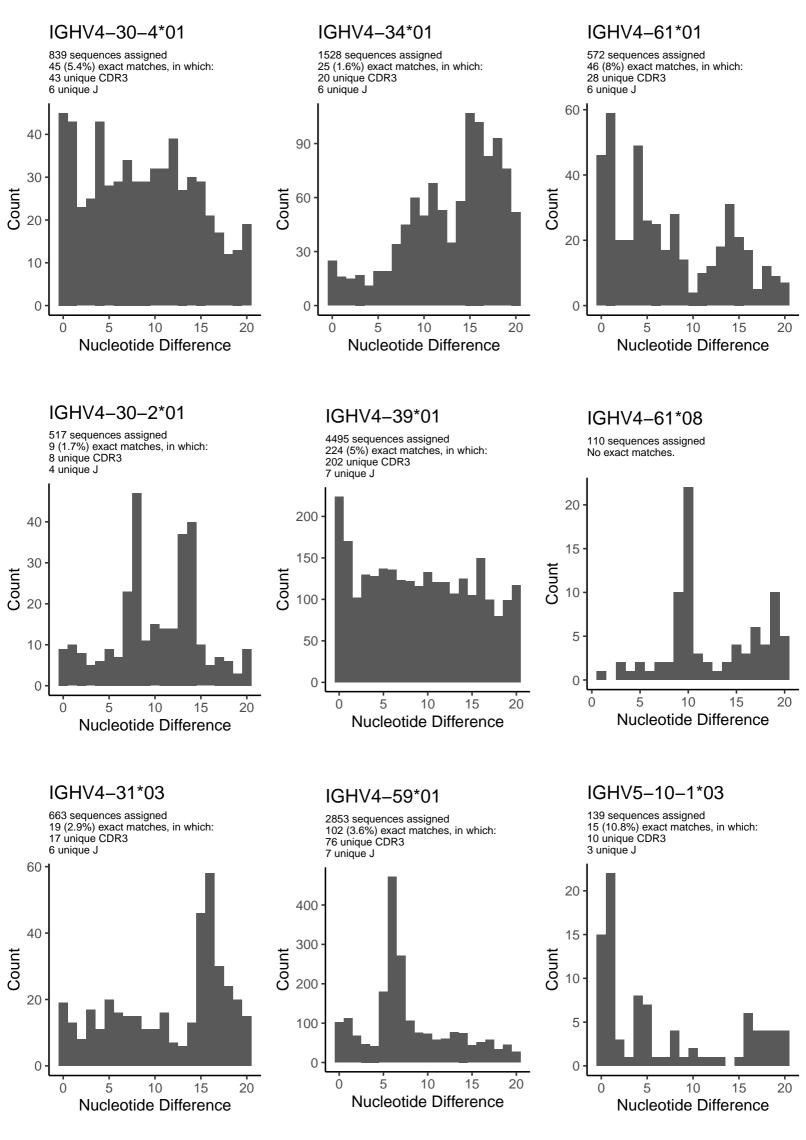






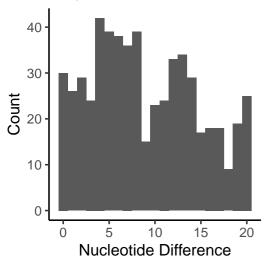






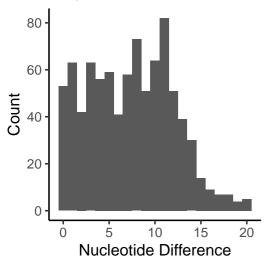
IGHV5-51*01

973 sequences assigned 30 (3.1%) exact matches, in which: 27 unique CDR3 5 unique J



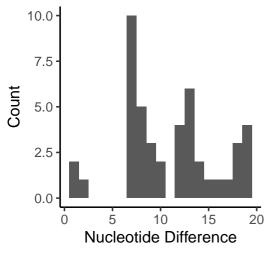
IGHV6-1*01

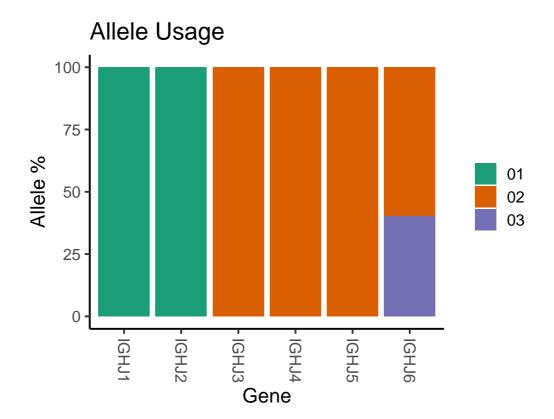
946 sequences assigned 53 (5.6%) exact matches, in which: 48 unique CDR3 5 unique J



IGHV7-4-1*01

80 sequences assigned No exact matches.





Sequence Count by IGHJ6 allele usage

