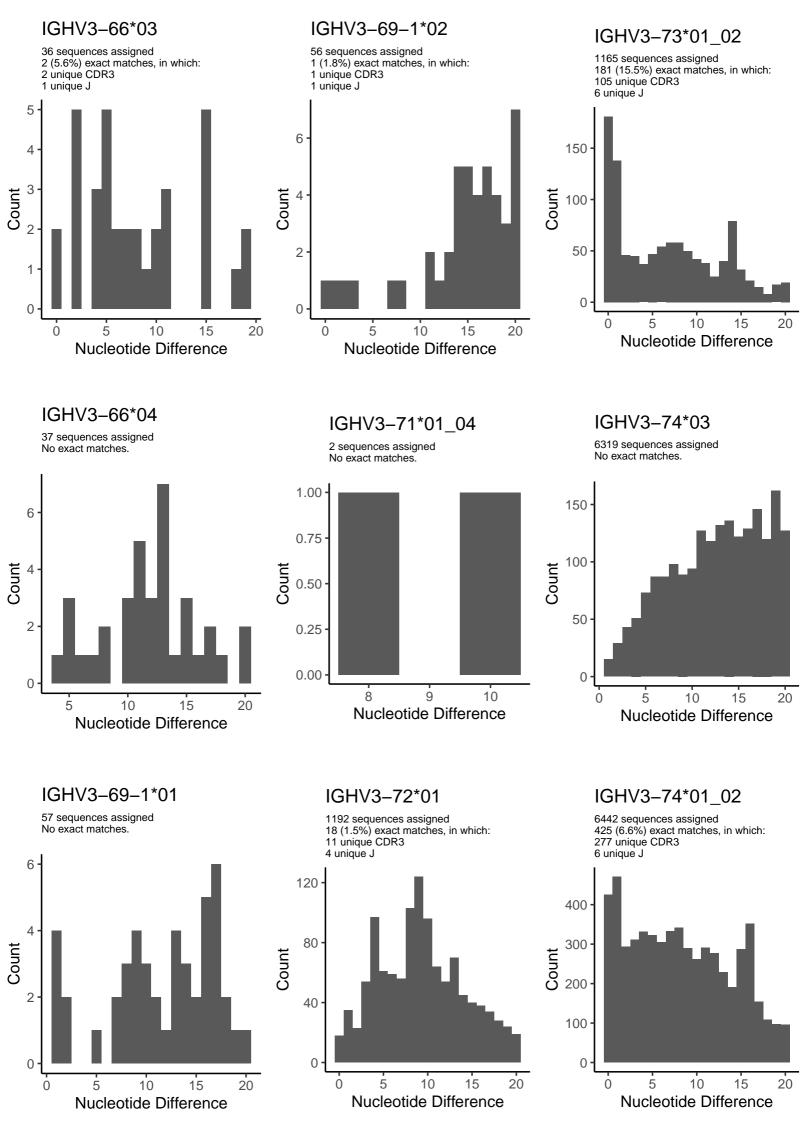
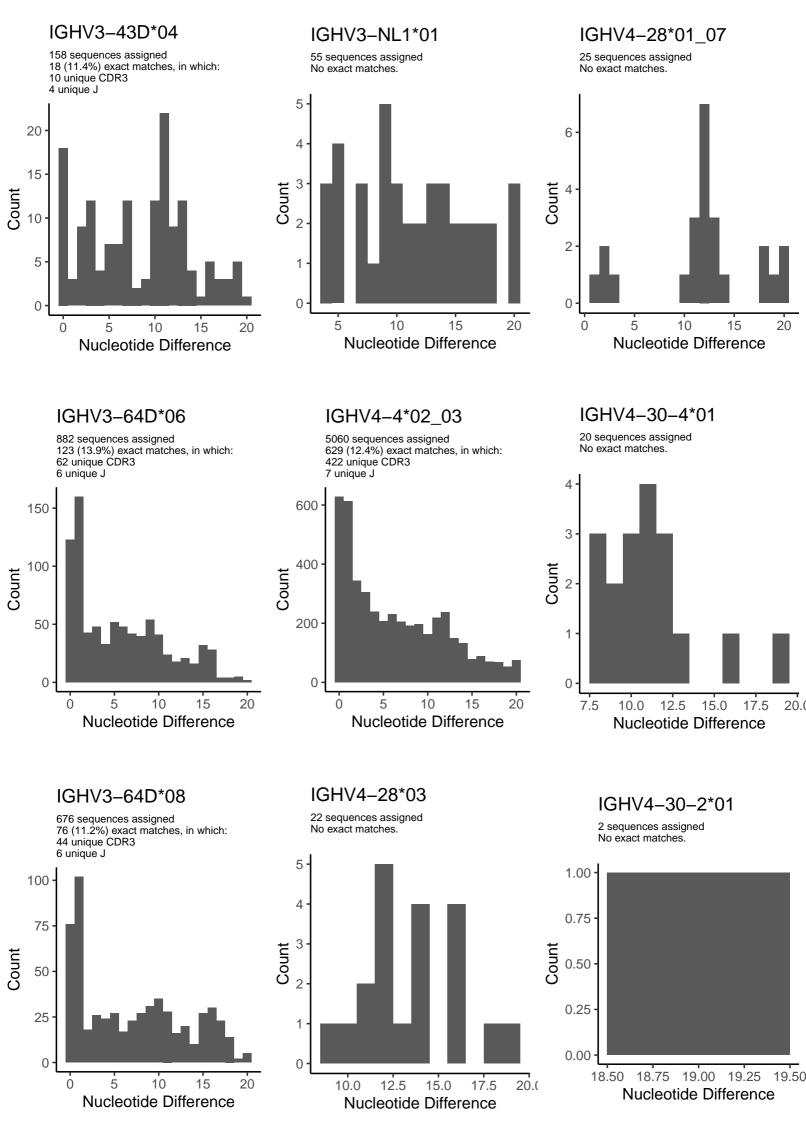
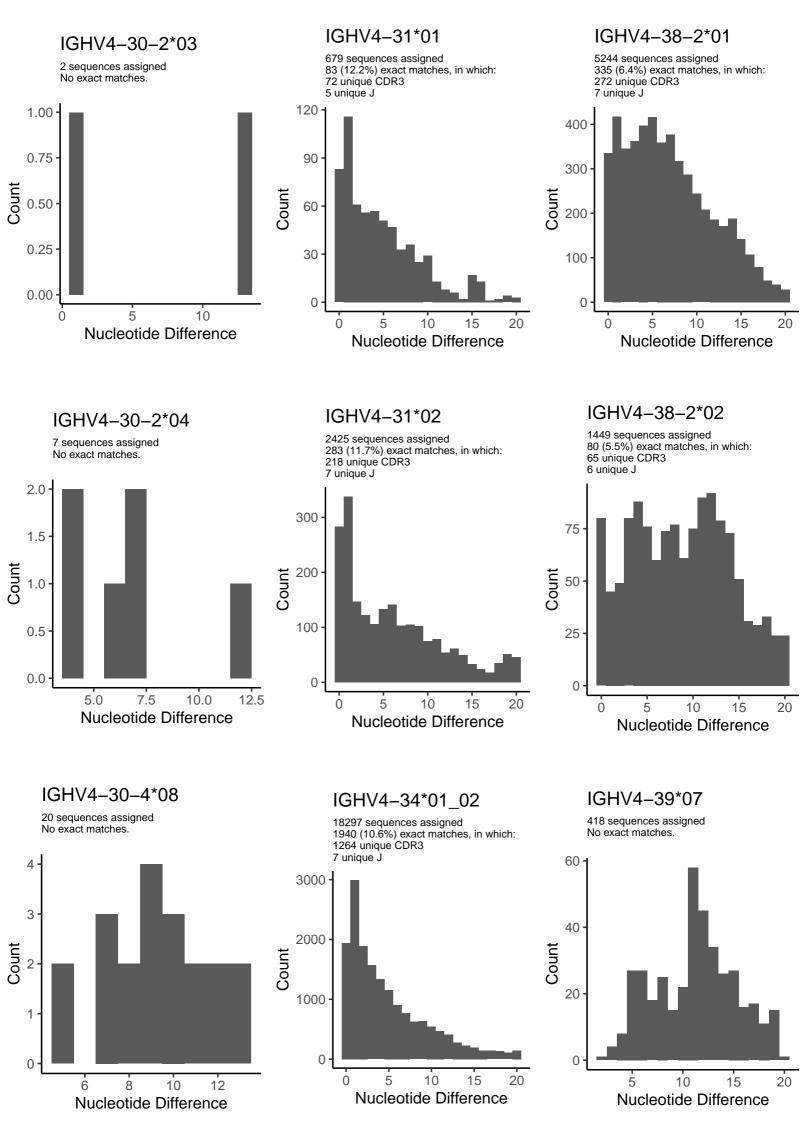
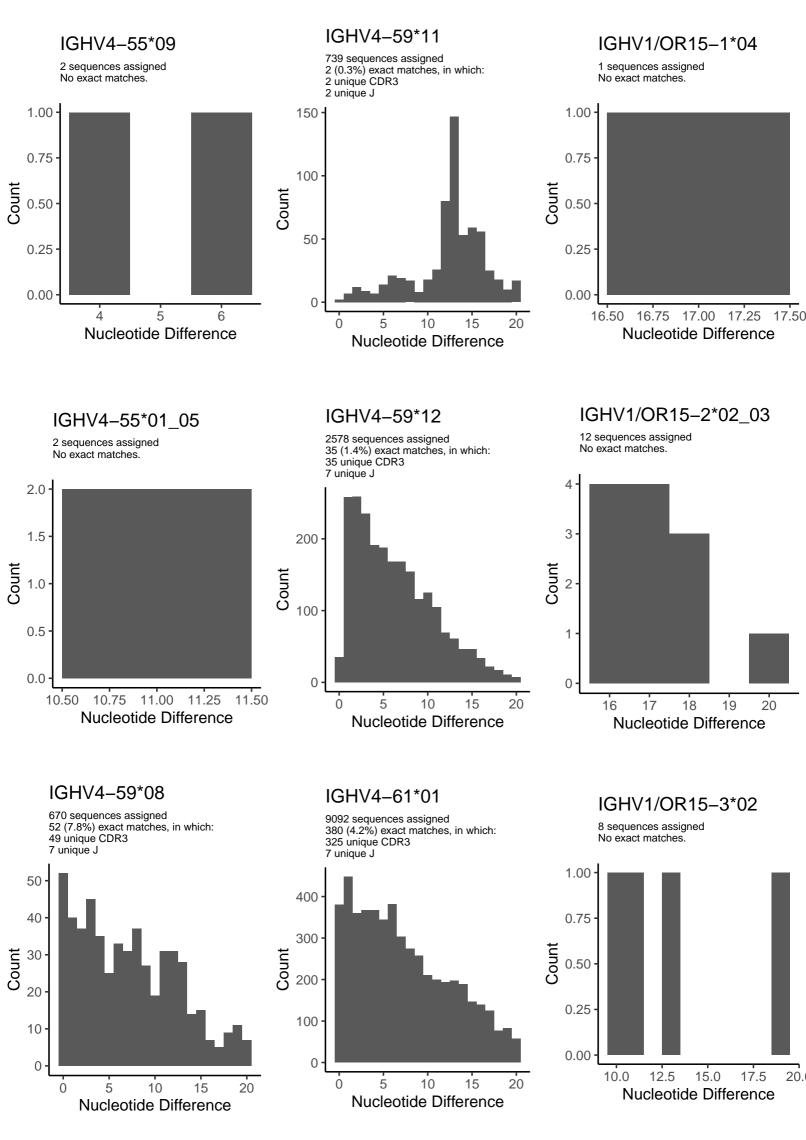


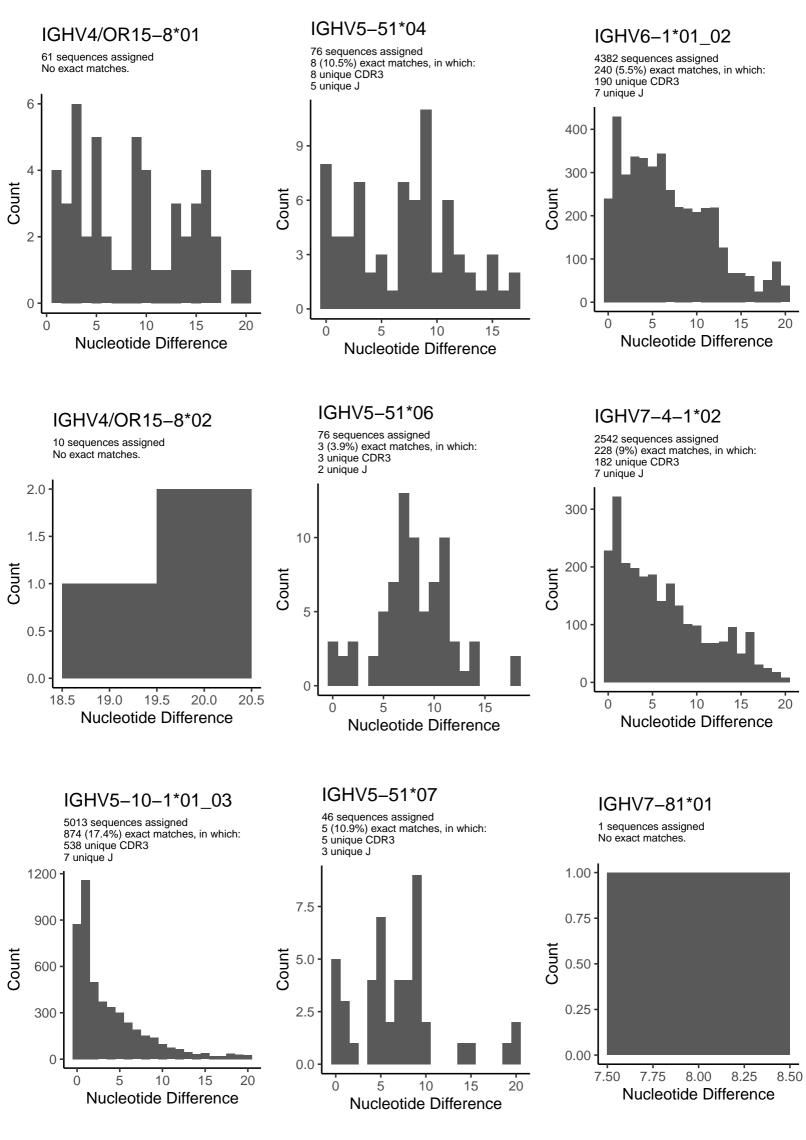
IGHV3-64*04_A210C_A2 IGHV3-53*01_02 IGHV3-48*03 374 sequences assigned 20 (5.3%) exact matches, in which: 5222 sequences assigned 250 (4.8%) exact matches, in which: 14126 sequences assigned 817 (5.8%) exact matches, in which: 20 unique CDR3 7 unique J 148 uniqué CDR3 491 unique CDR3 7 unique J 7 unique J 40 300 900 30 200 Count Count Count 600 20 100 300 10 0 0 0 15 5 10 15 20 5 10 20 0 0 10 15 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-66*01 IGHV3-49*04 IGHV3-64*04 59 sequences assigned 1 (1.7%) exact matches, in which: 1 unique CDR3 1499 sequences assigned 185 (12.3%) exact matches, in which: 226 sequences assigned No exact matches. 115 unique CDR3 1 unique J 7 unique J 25 6 20 150 15 Count P Count 100 10 2 50 5 0 0 0 5 10 15 20 10 15 20 0 0 5 10 15 20 0 5 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-64*02_07 IGHV3-66*02 IGHV3-52*01_03 198 sequences assigned 7 sequences assigned 52 sequences assigned 29 (14.6%) exact matches, in which: (14.3%) exact matches, in which: No exact matches. 1 unique CDR3 18 unique CDR3 4 unique J 1 unique J 2.0 30 3 1.5 Count Count 2 20 1.0 10 0.5 0.0 0 10 15 20 10 0 5 10 15 20 Nucleotide Difference Nucleotide Difference **Nucleotide Difference**

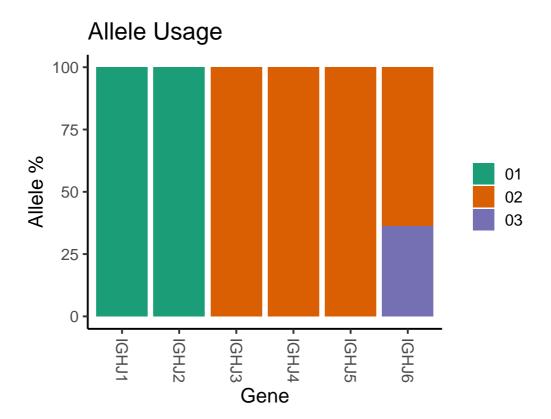




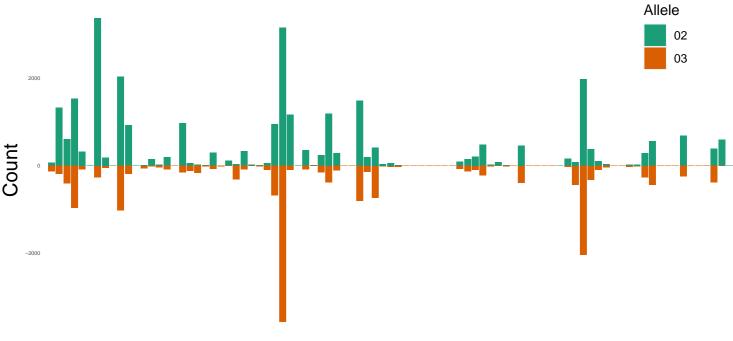








Sequence Count by IGHJ6 allele usage



GHY7-4-1102
GHY8-51107
GHY8-51108
GHY8-51108
GHY8-51108

