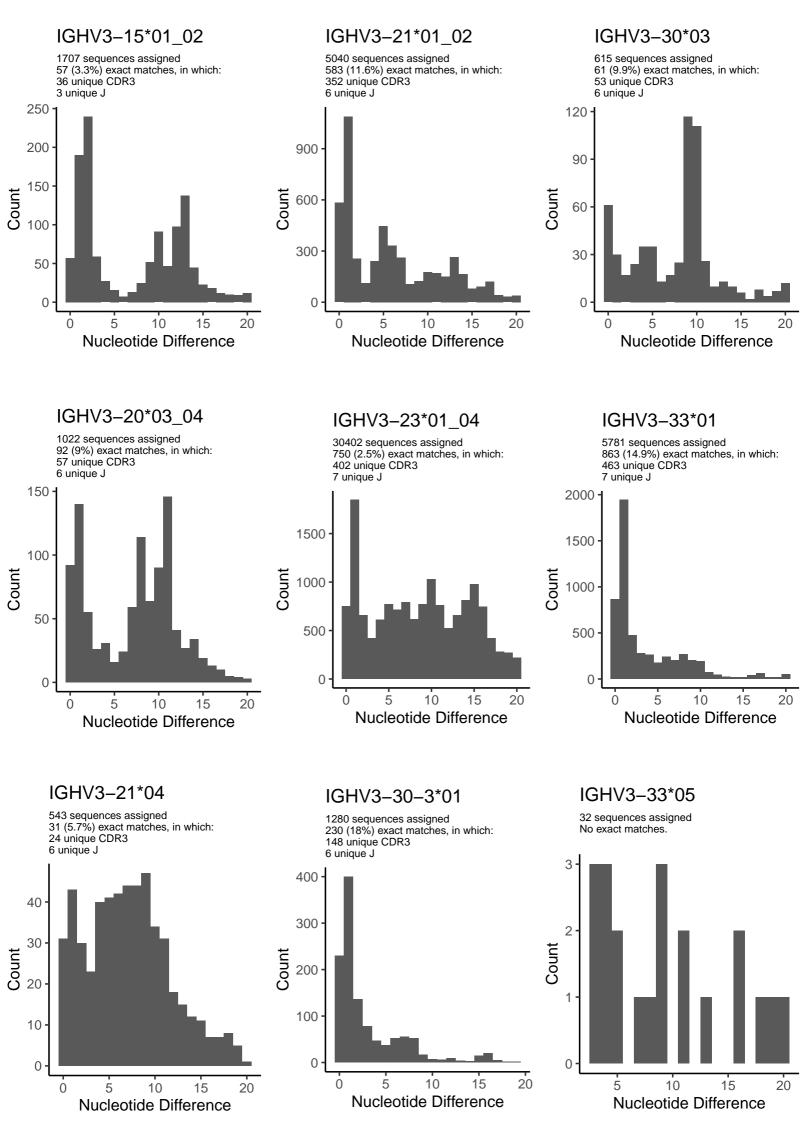
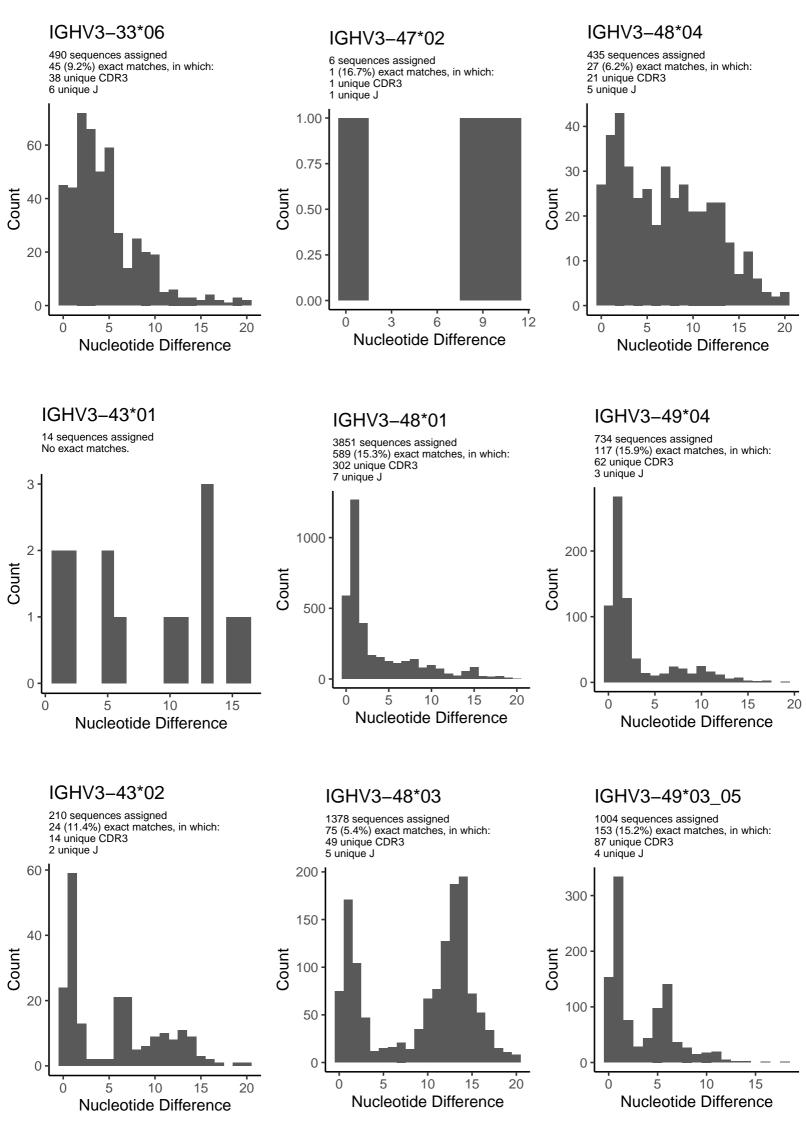
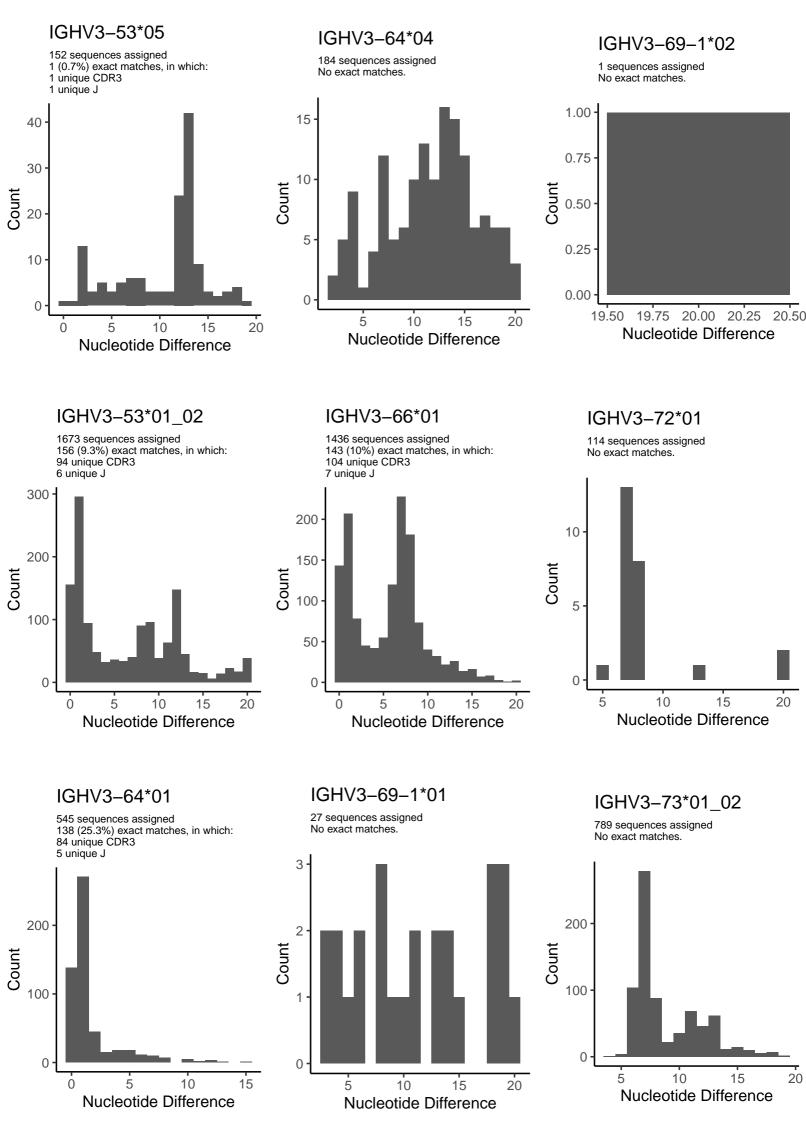
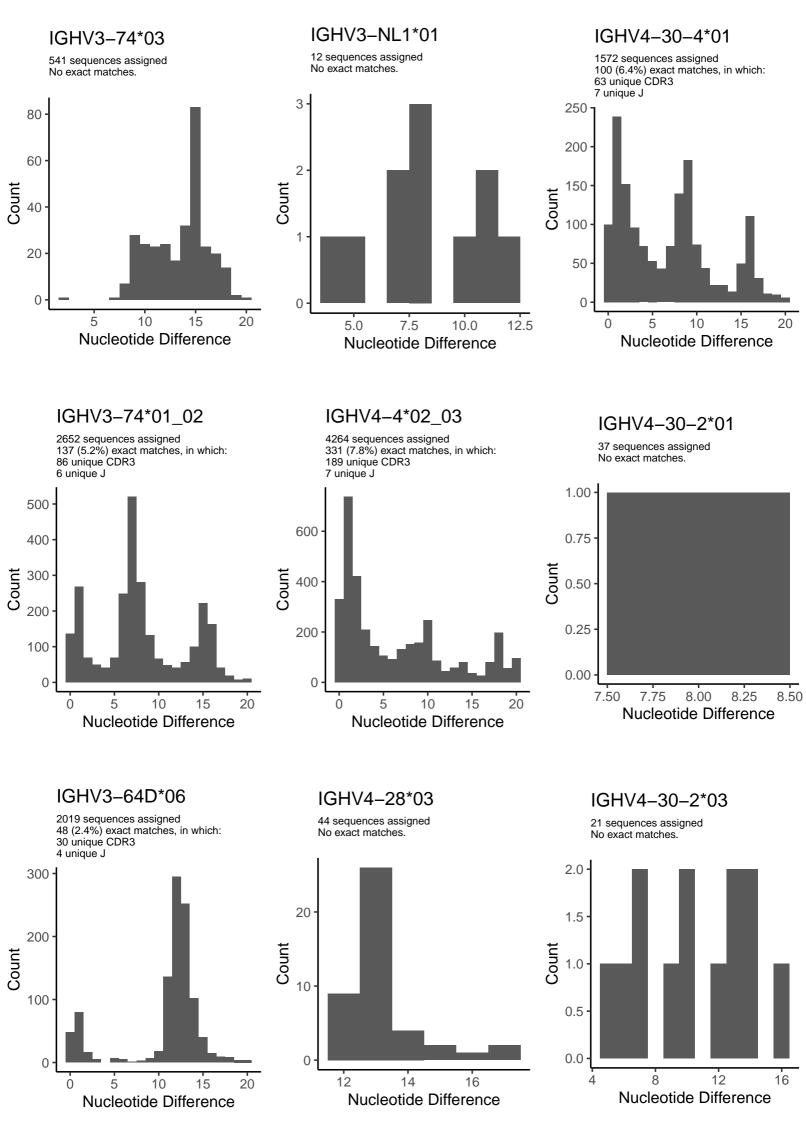


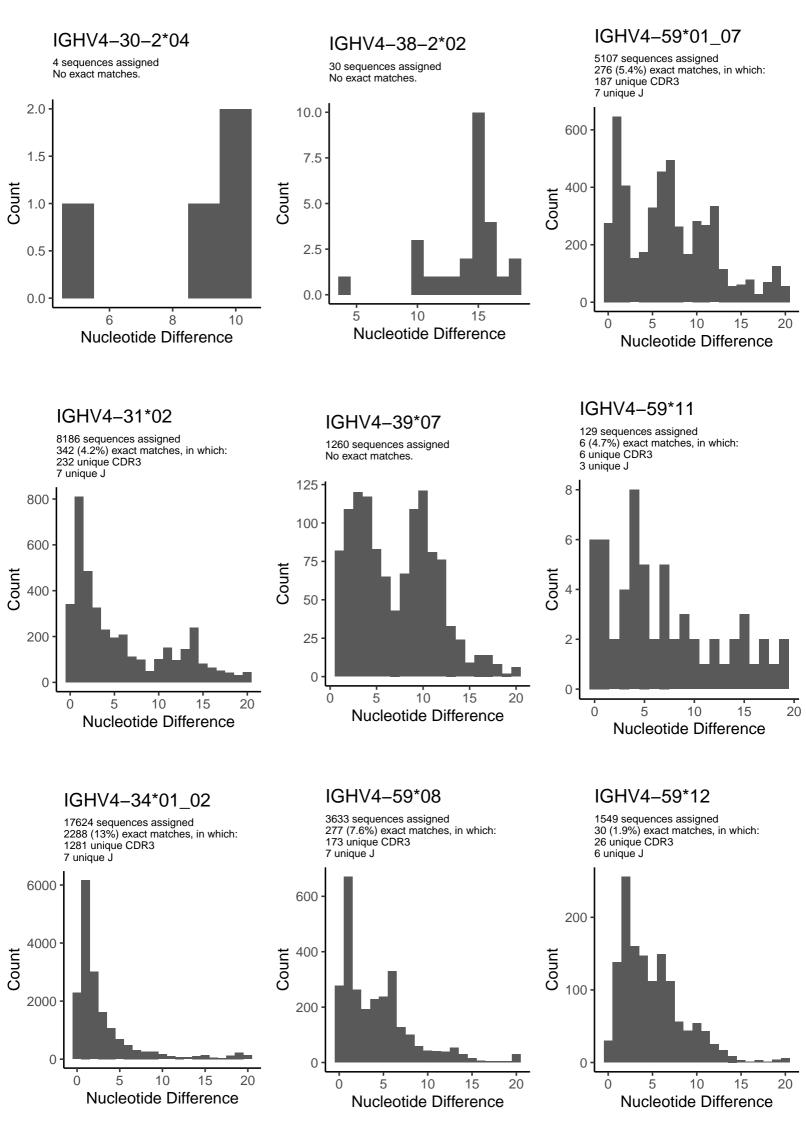
IGHV3-9*01 IGHV3-11*06 IGHV3-7*03 2870 sequences assigned 291 (10.1%) exact matches, in which: 945 sequences assigned 5911 sequences assigned 678 (11.5%) exact matches, in which: 28 (3%) exact matches, in which: 157 unique CDR3 20 unique CDR3 273 unique CDR3 6 unique J 5 unique J 6 unique J 120 2000 600 90 1500 400 Count Count 60 1000 200 500 30 0 0 0 0 10 15 5 10 15 20 5 10 15 20 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-7*04 IGHV3-11*03_05 IGHV3-11*01 1923 sequences assigned 129 (6.7%) exact matches, in which: 3043 sequences assigned 155 (5.1%) exact matches, in which: 11670 sequences assigned 196 (1.7%) exact matches, in which: 85 unique CDR3 81 unique CDR3 123 unique CDR3 7 unique J 7 unique J 6 unique J 300 400 3000 300 200 Count 2000 Count 200 100 1000 100 0 0 0 5 10 20 15 20 10 20 0 5 10 0 5 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-7*05 IGHV3-11*04 IGHV3-13*04 208 sequences assigned 500 sequences assigned 668 sequences assigned 17 (8.2%) exact matches, in which: 31 (6.2%) exact matches, in which: 64 (9.6%) exact matches, in which: 11 unique CDR3 27 unique CDR3 43 unique CDR3 5 unique J 5 unique J 4 unique J 20 150 15 40 Count Count 100 10 20 50 5 0 0 0 10 20 15 0 5 10 15 20 0 5 10 15 20 Nucleotide Difference Nucleotide Difference **Nucleotide Difference**

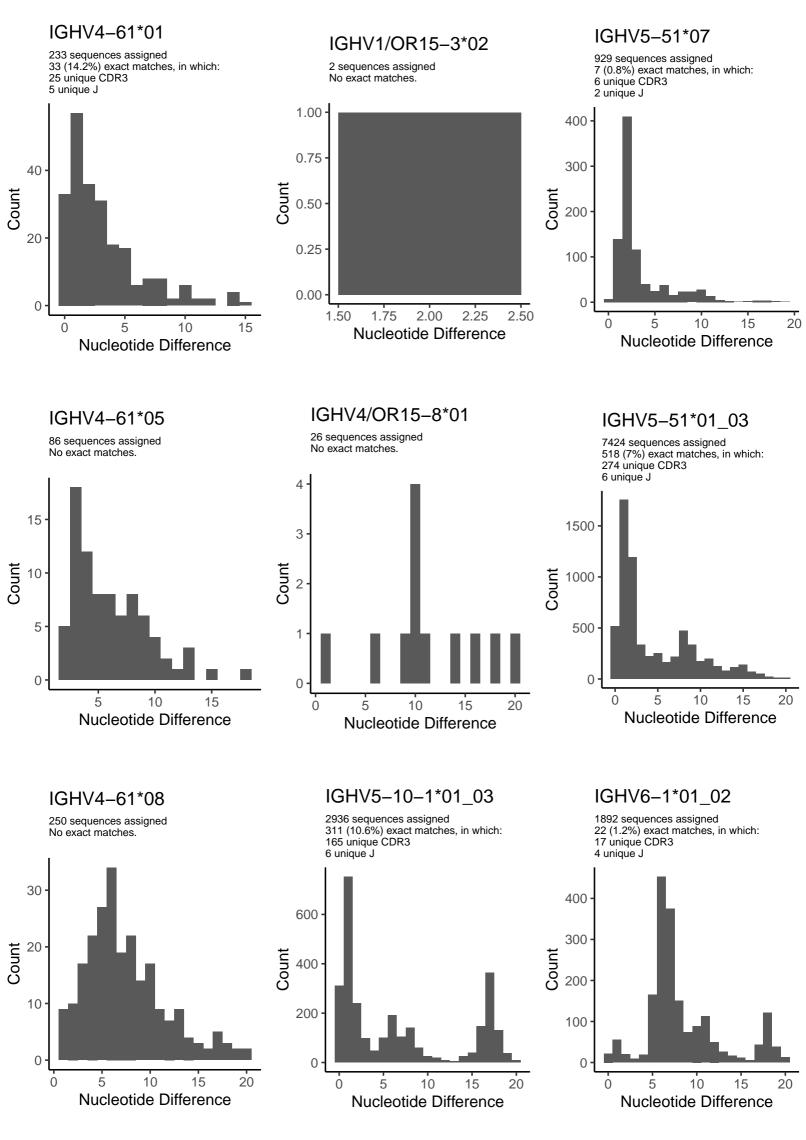






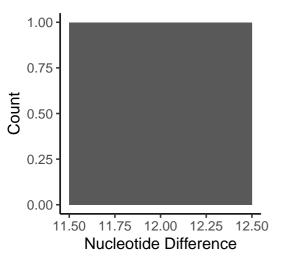


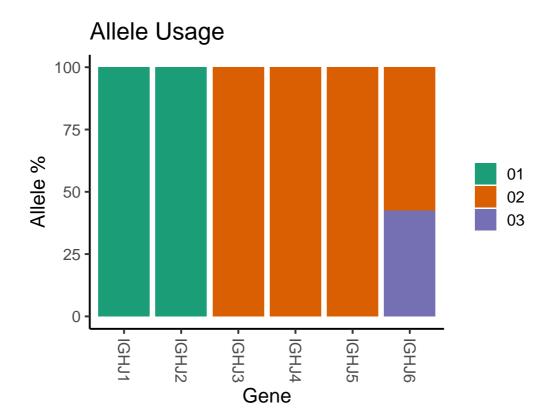




IGHV7-4-1*02

1 sequences assigned No exact matches.





Sequence Count by IGHJ6 allele usage

