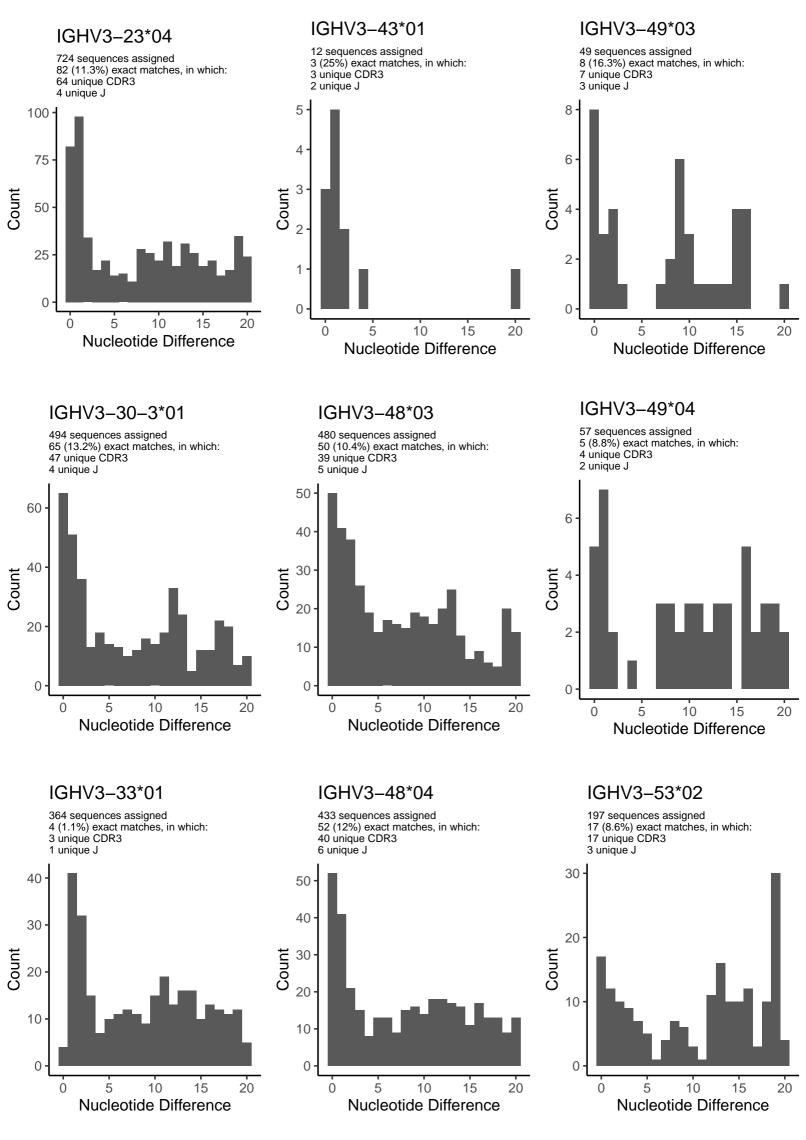
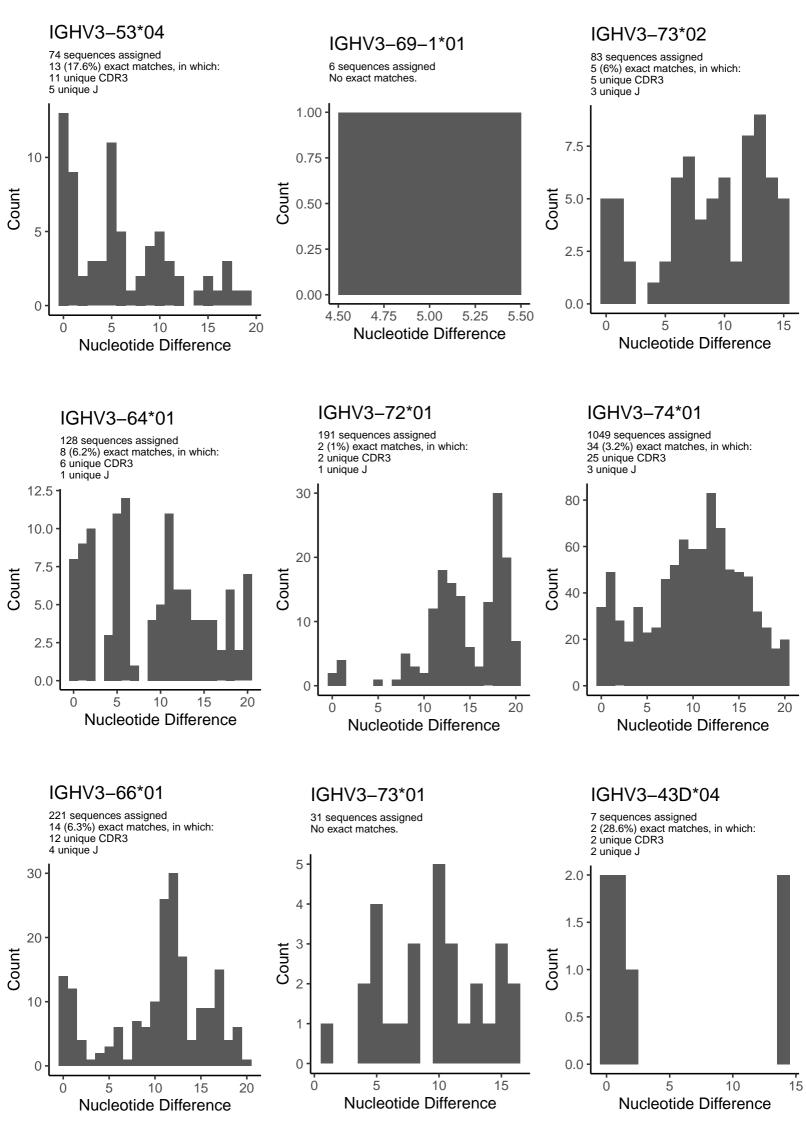
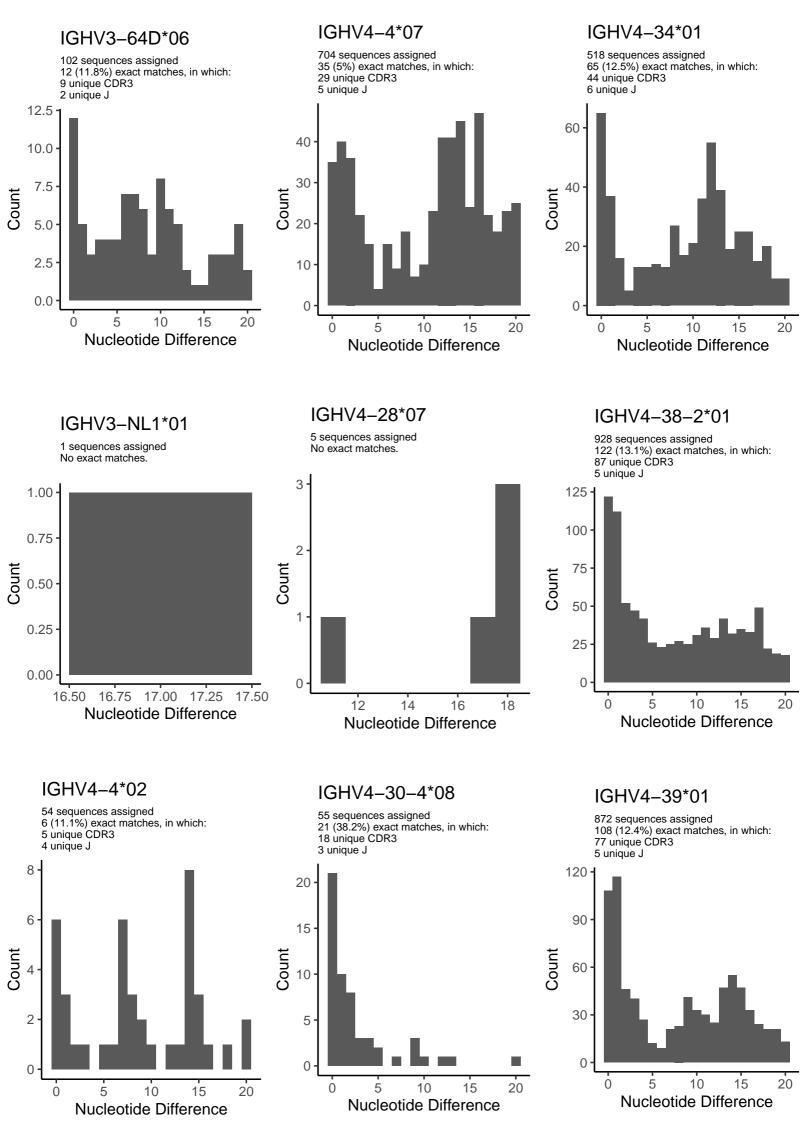
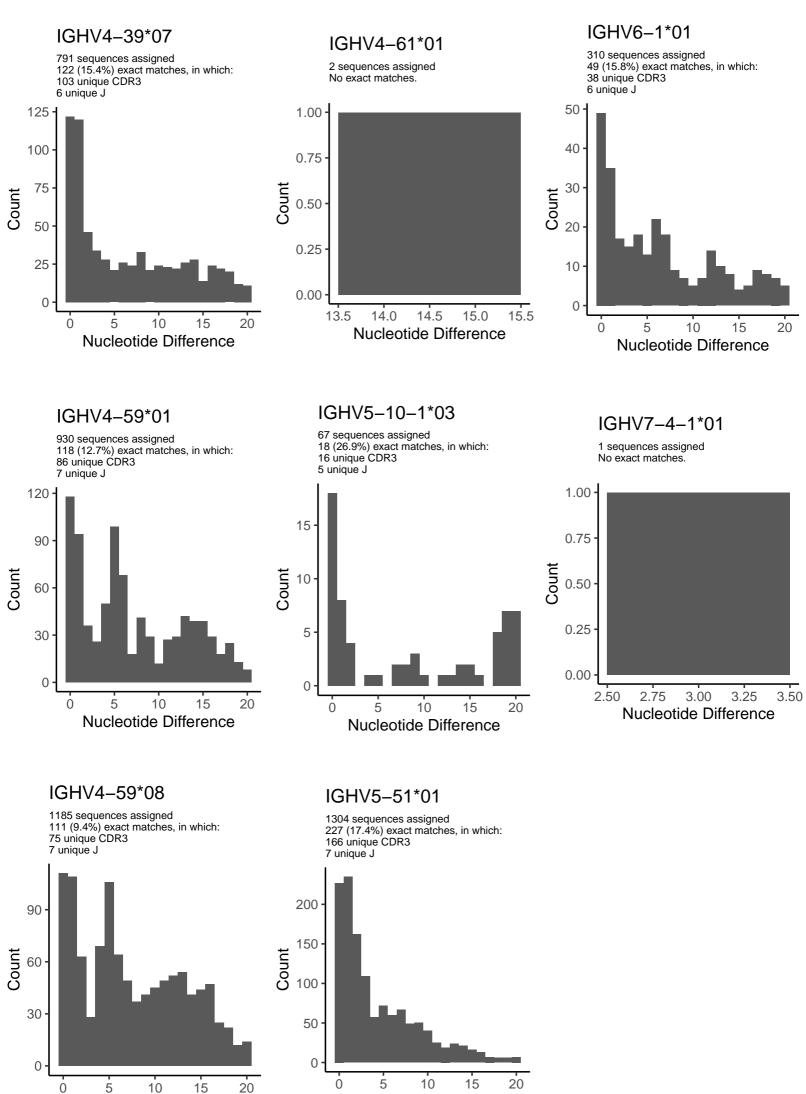


## IGHV3-7\*03 IGHV3-15\*01 IGHV3-11\*06 283 sequences assigned 20 (7.1%) exact matches, in which: 564 sequences assigned 32 (5.7%) exact matches, in which: 78 sequences assigned 8 (10.3%) exact matches, in which: 20 unique CDR3 22 unique CDR3 7 unique CDR3 5 unique J 6 unique J 1 unique J 80 10.0 60 15 7.5 Count Count Count 40 5.0 10 2.5 20 5 0.0 0 0 10 15 20 0 5 10 15 20 10 15 0 0 5 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV3-9\*03 IGHV3-20\*04 IGHV3-13\*01 54 sequences assigned 22 sequences assigned 55 sequences assigned 15 (27.8%) exact matches, in which: No exact matches. 9 (16.4%) exact matches, in which: 11 unique CDR3 8 unique CDR3 4 unique J 2 unique J 5 4 7.5 10 3 Count Count 5.0 5 2.5 1 0 0.0 0 12 16 8 10 15 2.5 5.0 7.5 10.0 0 5 0.0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11\*04 IGHV3-13\*05 IGHV3-21\*01 81 sequences assigned 10 sequences assigned 587 sequences assigned 14 (17.3%) exact matches, in which: 2 (20%) exact matches, in which: 151 (25.7%) exact matches, in which: 13 unique CDR3 2 unique CDR3 98 unique CDR3 3 unique J 2 unique J 6 unique J 2.0 150 1.5 10 100 Count Count 1.0 5 50 0.5 0 0 0.0 10 20 20 0 15 5 10 0 0 10 15 20 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference



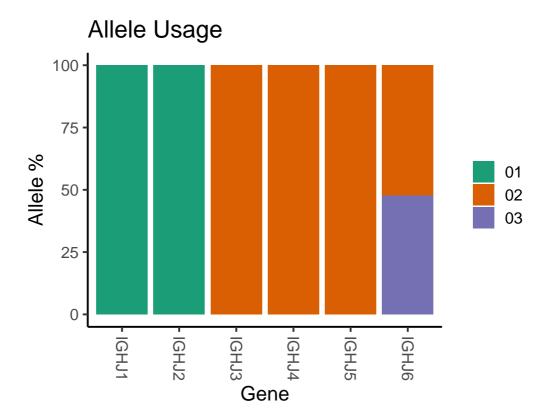




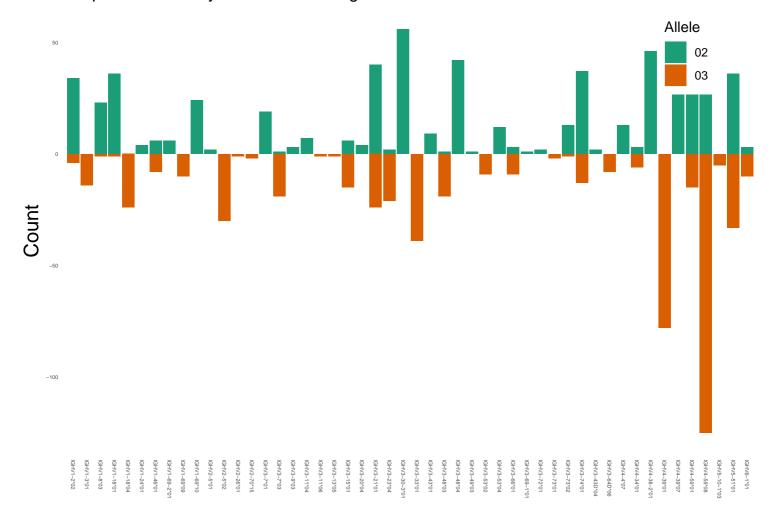


**Nucleotide Difference** 

Nucleotide Difference



## Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.