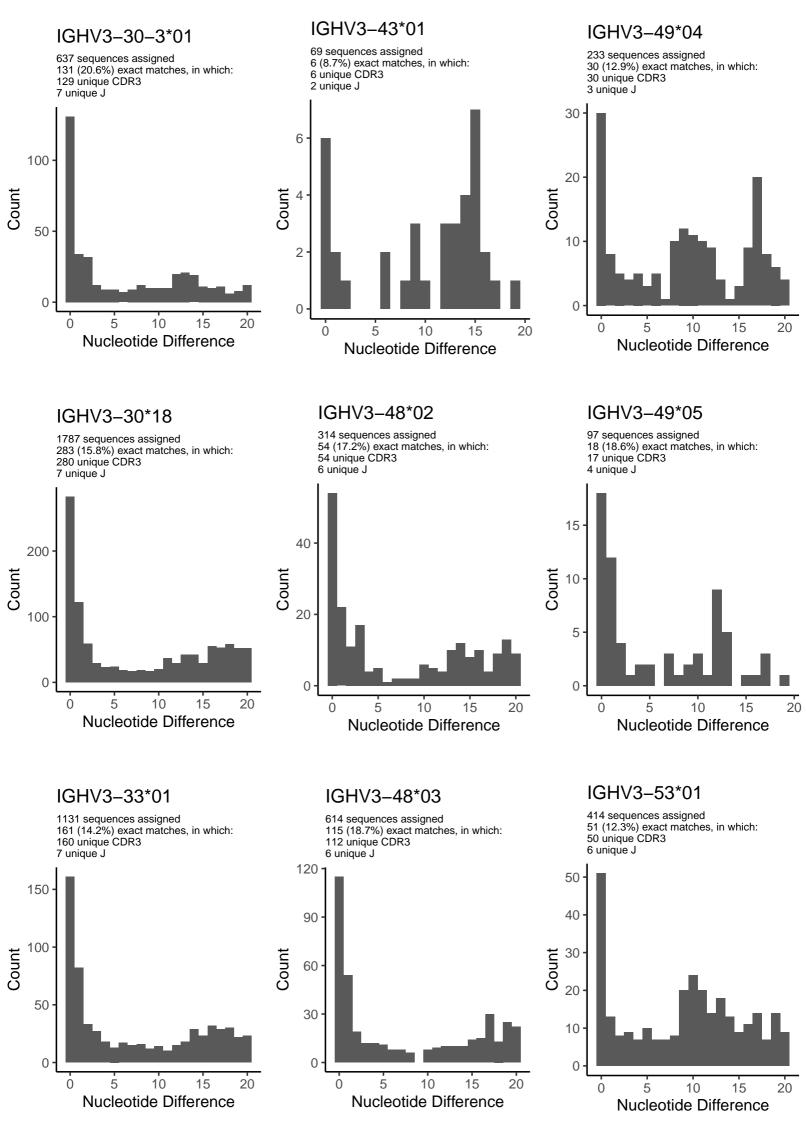
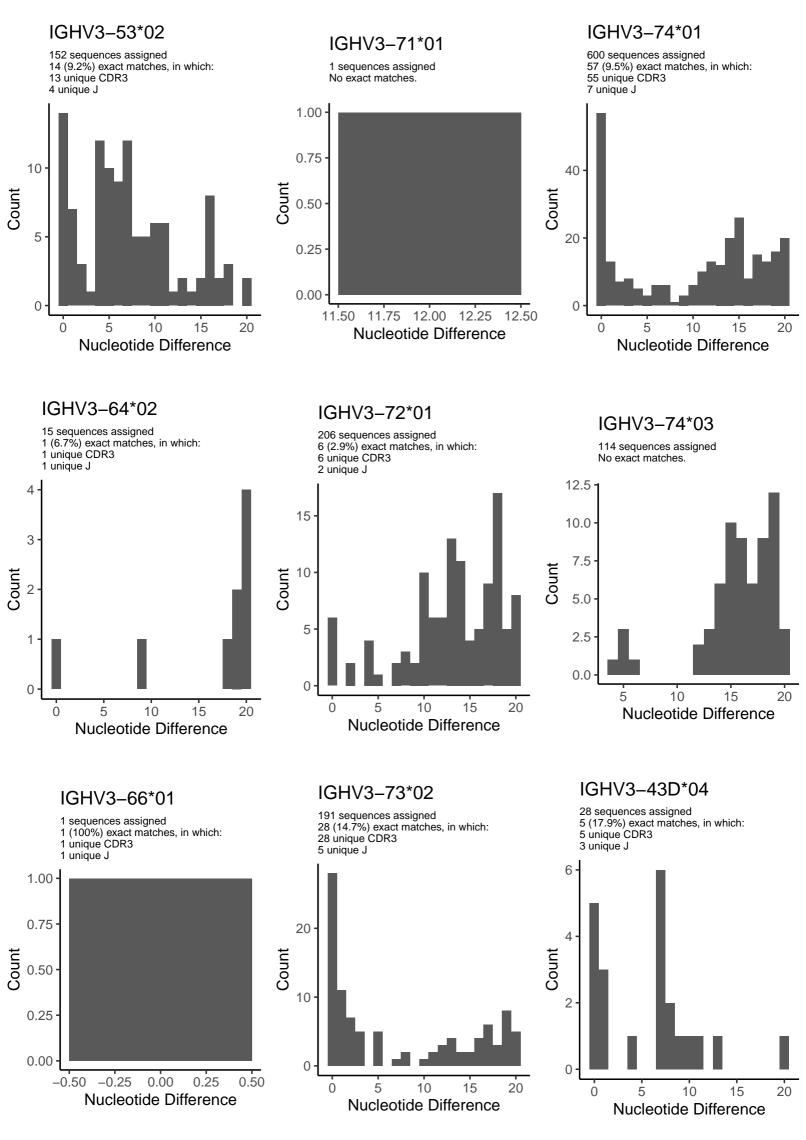
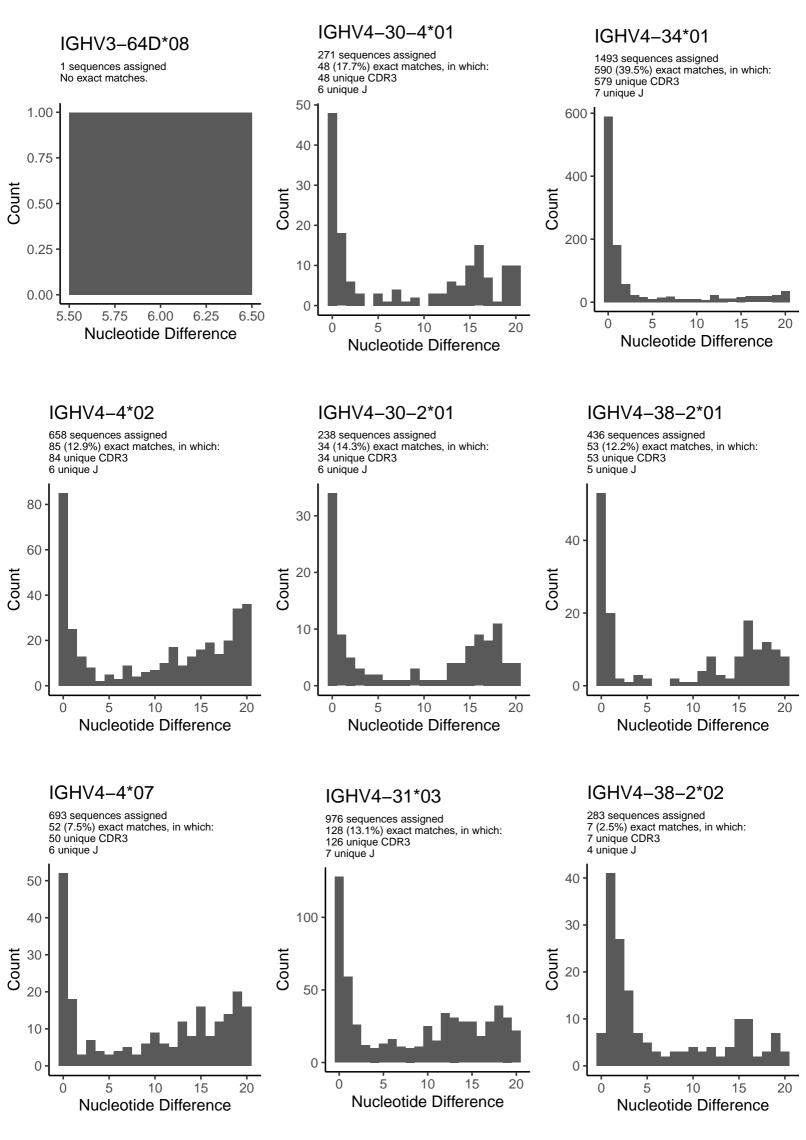
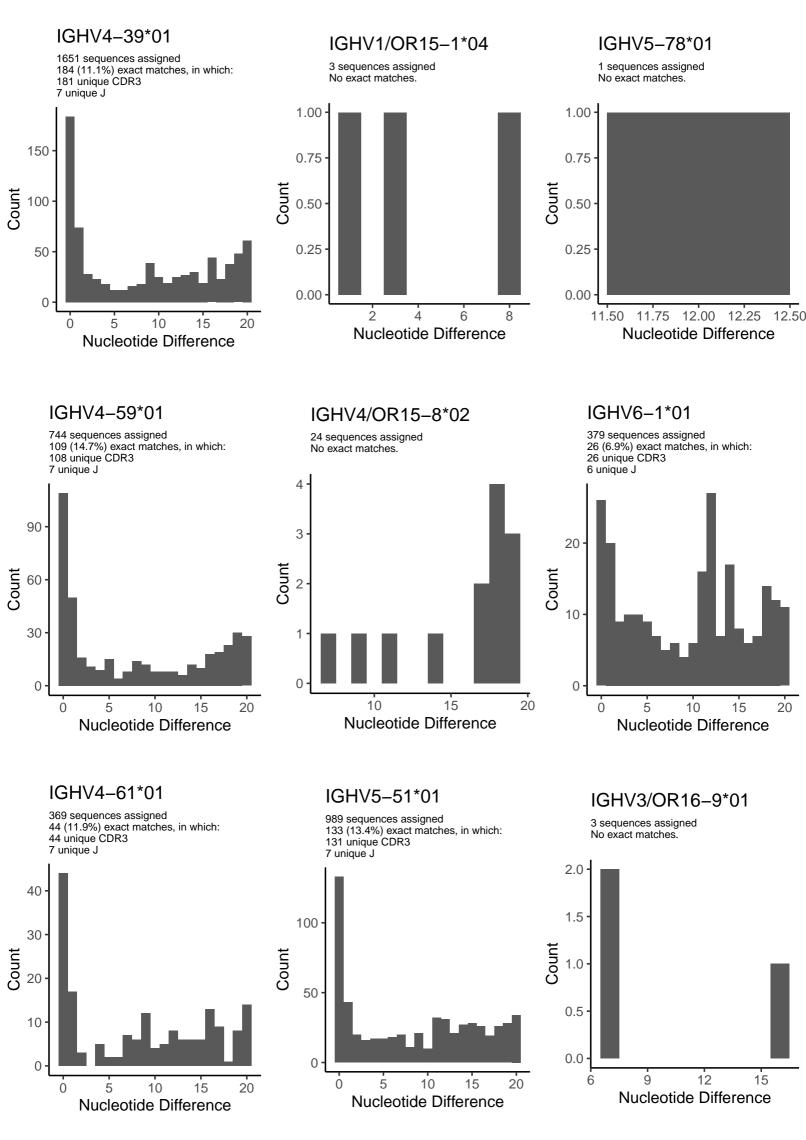


#### IGHV3-7\*01 IGHV3-13\*01 IGHV3-20\*04 791 sequences assigned 324 sequences assigned 29 sequences assigned 35 (10.8%) exact matches, in which: 93 (11.8%) exact matches, in which: 1 (3.4%) exact matches, in which: 93 unique CDR3 7 unique J 35 unique CDR3 1 uniqué CDR3 6 unique J 1 unique J 2.0 30 75 1.5 Count Count Count 20 1.0 10 25 0.5 0.0 0 0 20 10 0 10 15 20 20 5 0 5 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-9\*01 IGHV3-15\*01 IGHV3-21\*01 1815 sequences assigned 798 sequences assigned 1562 sequences assigned 209 (11.5%) exact matches, in which: 96 (12%) exact matches, in which: 335 (21.4%) exact matches, in which: 206 unique CDR3 94 unique CDR3 322 unique CDR3 7 unique J 6 unique J 7 unique J 100 200 300 75 150 200 Count Count 50 100 100 25 50 0 0 0 10 15 20 5 10 15 20 10 15 20 0 5 0 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11\*01 IGHV3-23\*01 IGHV3-20\*01 1144 sequences assigned 3525 sequences assigned 63 sequences assigned 86 (7.5%) exact matches, in which: 420 (11.9%) exact matches, in which: 12 (19%) exact matches, in which: 86 unique CDR3 417 unique CDR3 12 unique CDR3 7 unique J 7 unique J 5 unique J 12.5 400 75 10.0 300 7.5 Count 200 5.0 25 100 2.5 0.0 0 0 5 10 15 0 10 15 20 0 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**



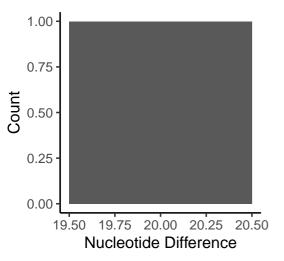






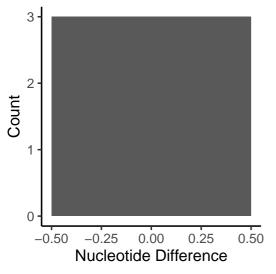
#### IGHV3/OR16-12\*01

1 sequences assigned No exact matches.



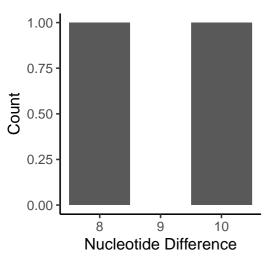
### IGHV7-4-1\*01

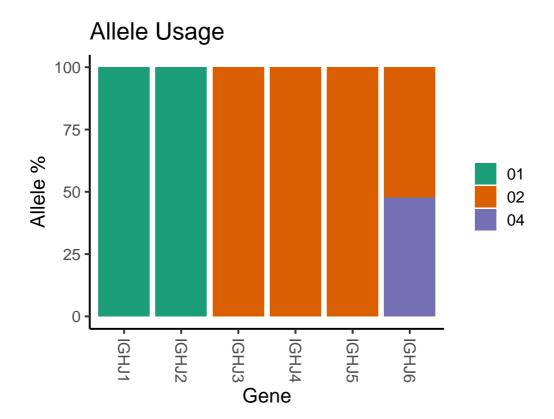
3 sequences assigned 3 (100%) exact matches, in which: 3 unique CDR3 3 unique J



## IGHV7-4-1\*02

3 sequences assigned No exact matches.





# Sequence Count by IGHJ6 allele usage

