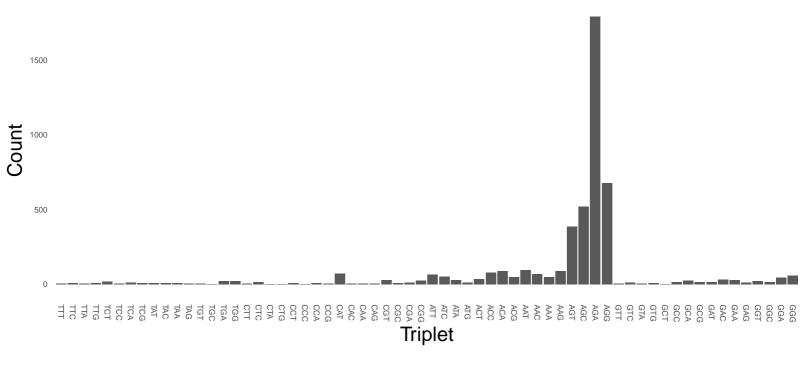
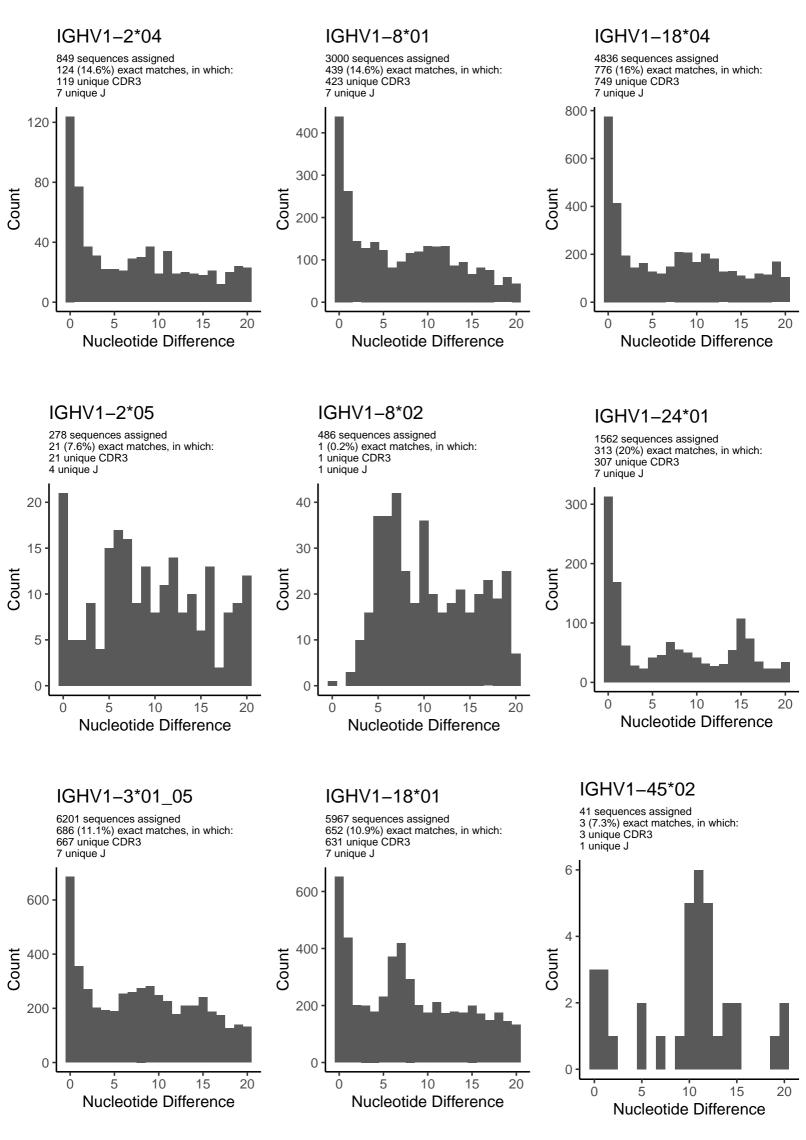


IGHV7-4-1\*02\_T63C- Final 3 nucleotides as a triplet





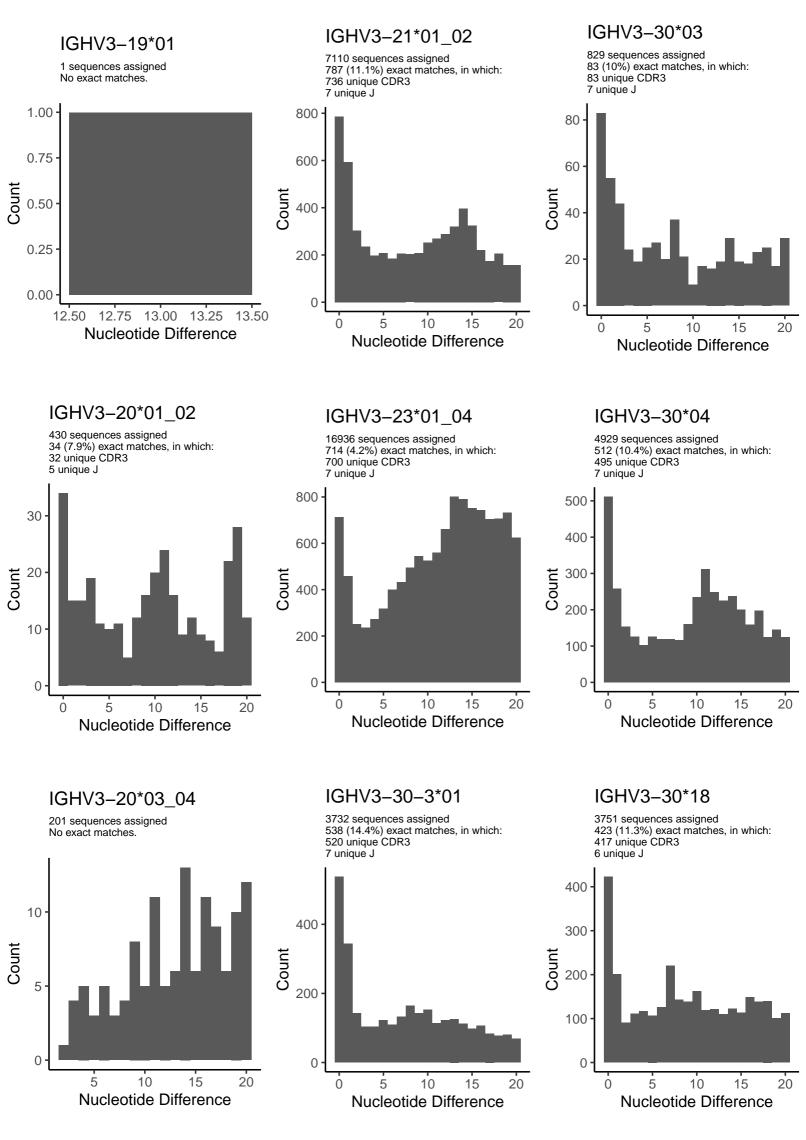
## IGHV2-26\*01 IGHV1-46\*01 IGHV1-69\*10 379 sequences assigned 6038 sequences assigned 925 (15.3%) exact matches, in which: 2327 sequences assigned 80 (21.1%) exact matches, in which: 497 (21.4%) exact matches, in which: 78 unique CDR3 907 unique CDR3 483 unique CDR3 6 unique J 7 unique J 7 unique J 500 -750 400 60 300 Count Count 500 40 200 250 20 100 0 0 0 5 10 15 20 5 10 15 20 0 0 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-58\*02 IGHV2-70\*01 IGHV1-69\*01\_12\_13 155 sequences assigned 28 (18.1%) exact matches, in which: 4464 sequences assigned 1356 (30.4%) exact matches, in which: 455 sequences assigned 98 (21.5%) exact matches, in which: 28 unique CDR3 95 unique CDR3 1331 unique CDR3 5 unique J 5 unique J 7 unique J 100 -30 75 1000 Count Count 50 500 10 25 0 0 0 0 10 15 20 10 15 20 0 5 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-58\*01\_03 IGHV2-5\*02 IGHV2-70D\*14 429 sequences assigned 2715 sequences assigned 1 sequences assigned 78 (18.2%) exact matches, in which: 232 (8.5%) exact matches, in which: 77 unique CDR3 No exact matches. 225 unique CDR3 7 unique J 7 unique J 80 1.00 200 60 0.75 150 Count 0.50 100 0.25 20 50 0.00 0 0 4.75 5.00 5.25 5.50 4.50 5 10 15 20 0 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

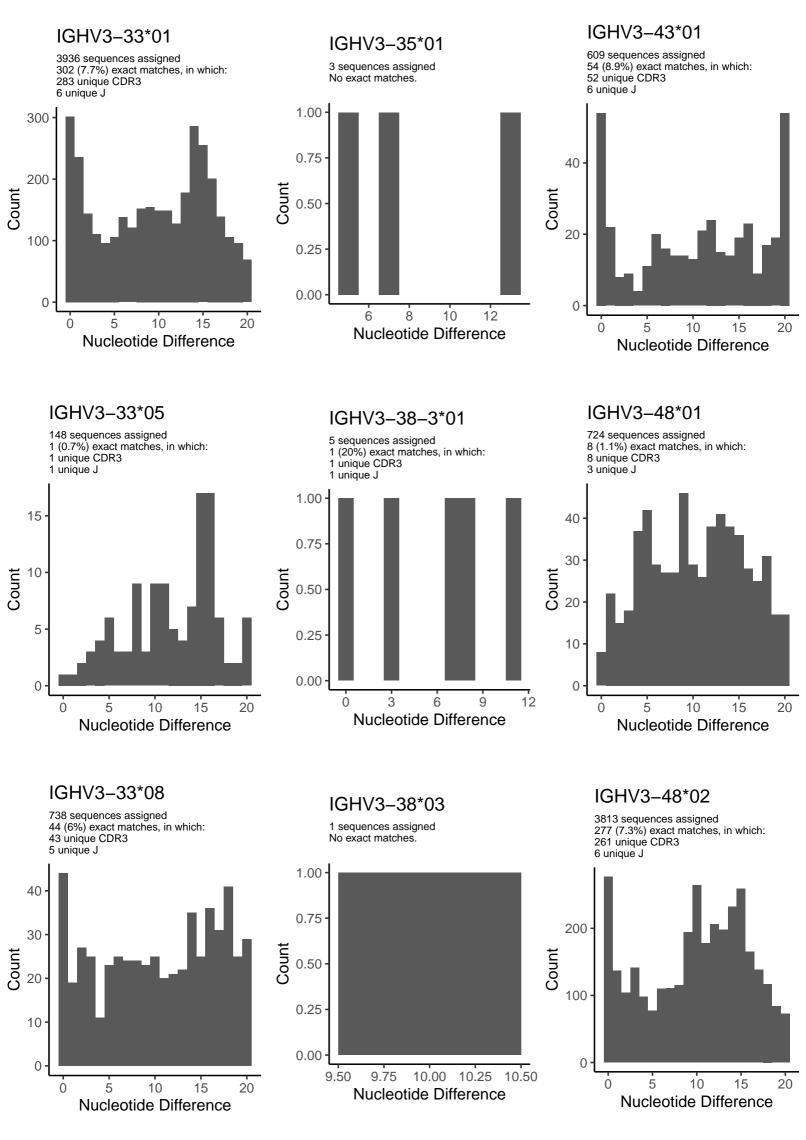
## IGHV3-13\*01 IGHV3-7\*01 IGHV3-11\*01 871 sequences assigned 47 (5.4%) exact matches, in which: 8404 sequences assigned 2469 sequences assigned 221 (2.6%) exact matches, in which: 174 (7%) exact matches, in which: 44 unique CDR3 210 unique CDR3 171 unique CDR3 7 unique J 7 unique J 7 unique J 400 150 75 300 Count Count Count 100 50 200 50 25 100 0 0 0 5 10 15 20 5 10 15 20 0 10 15 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11\*04 IGHV3-13\*05 IGHV3-7\*03 417 sequences assigned 14 (3.4%) exact matches, in which: 175 sequences assigned 32 (18.3%) exact matches, in which: 8690 sequences assigned 301 (3.5%) exact matches, in which: 14 unique CDR3 31 unique CDR3 287 unique CDR3 4 unique J 5 unique J 7 unique J 500 30 400 20 Count Count Count 300 200 10 10 100 0 0 0 10 15 20 0 5 10 15 20 10 15 20 0 5 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-9\*01 IGHV3-11\*06 IGHV3-15\*01\_02 2771 sequences assigned 1645 sequences assigned 3854 sequences assigned 143 (8.7%) exact matches, in which: 345 (12.5%) exact matches, in which: 248 (6.4%) exact matches, in which: 337 unique CDR3 141 unique CDR3 242 unique CDR3 7 unique J 6 unique J 7 unique J 150 250 300 200 100 150 Count 200 100 50 100 50 0 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 0

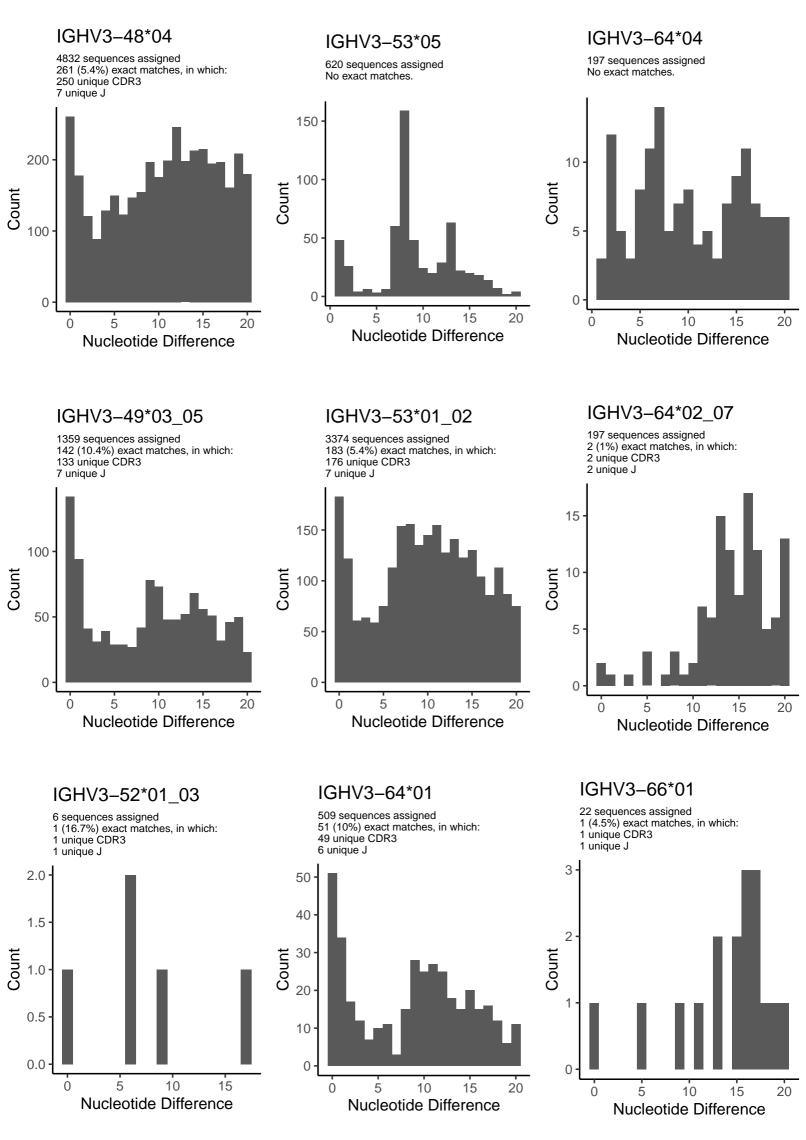
Nucleotide Difference

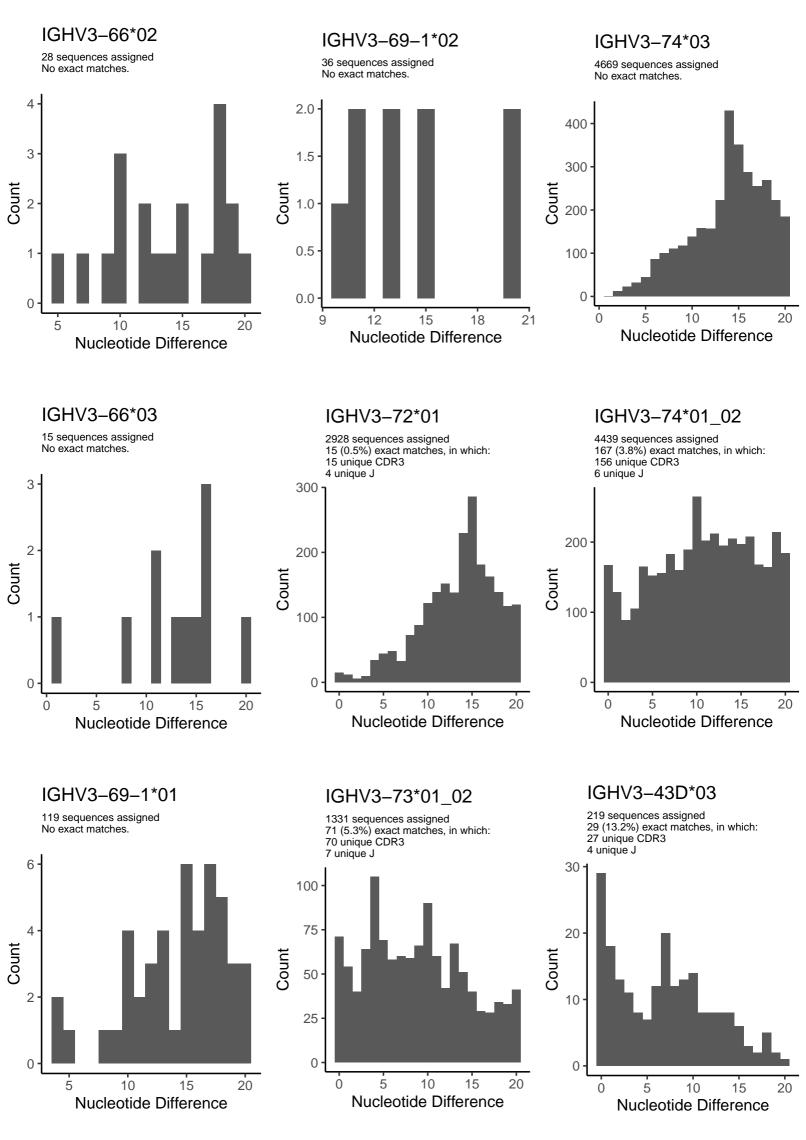
Nucleotide Difference

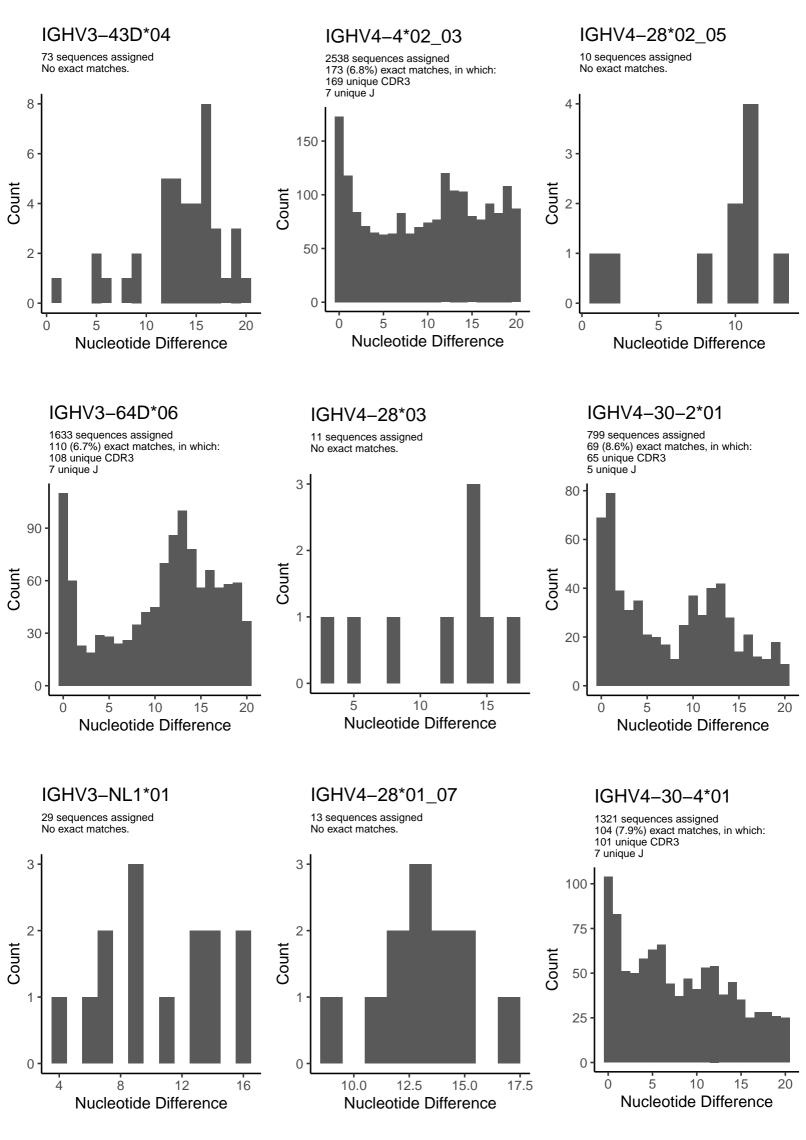
**Nucleotide Difference** 

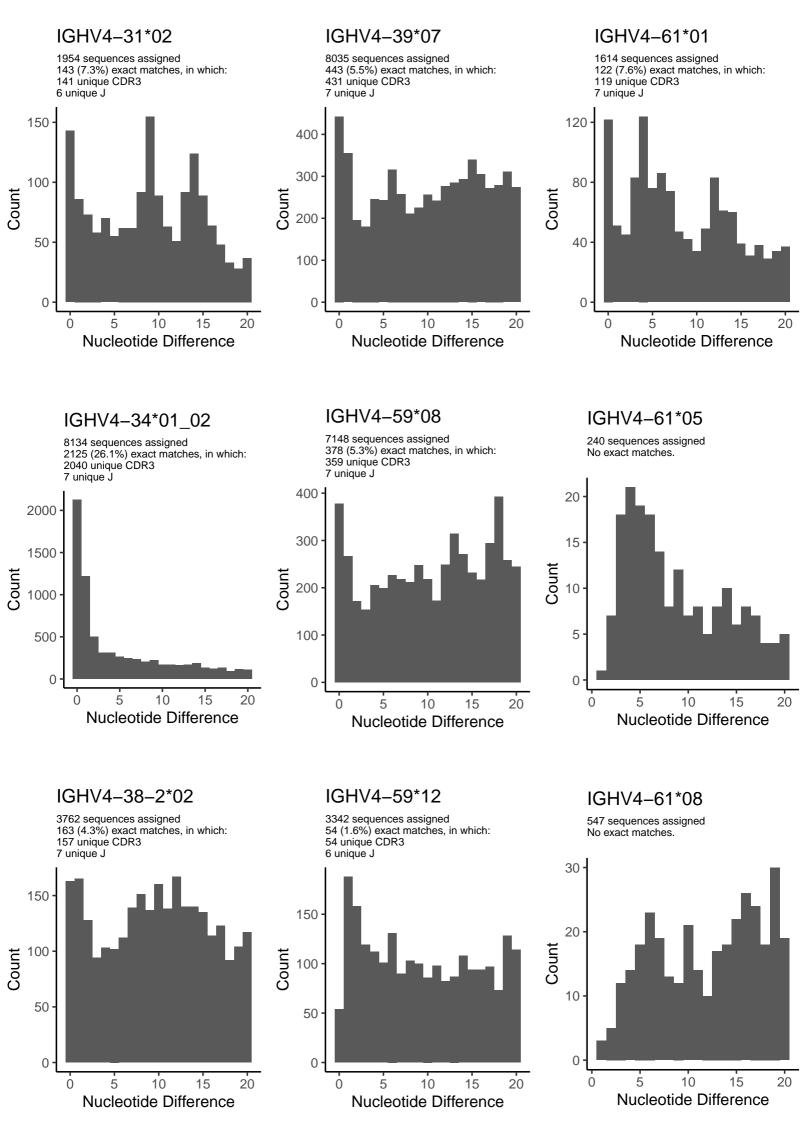


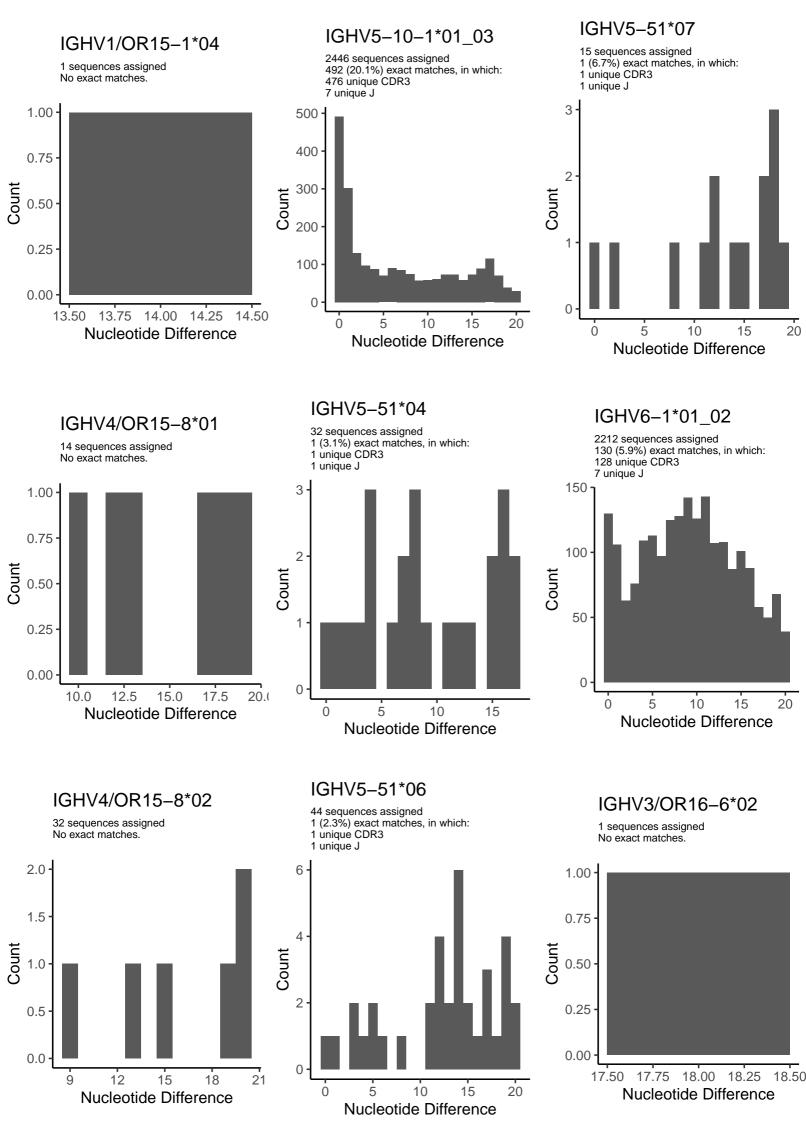






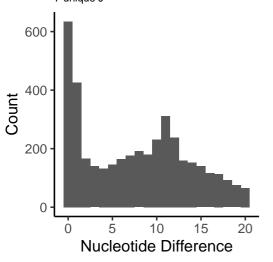




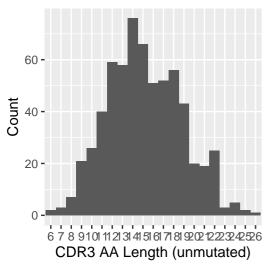


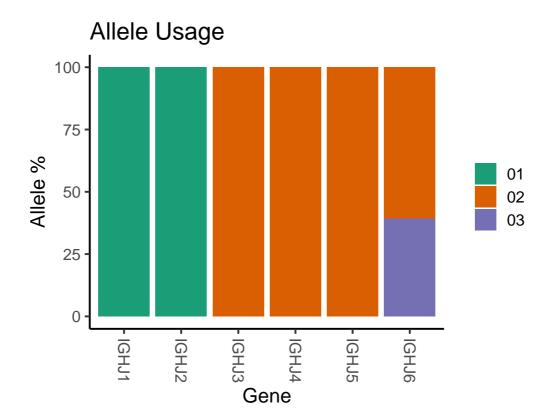
## IGHV7-4-1\*02\_T63C

4764 sequences assigned 635 (13.3%) exact matches, in which: 618 unique CDR3 7 unique J



IGHV7-4-1\*02\_T63C





## Sequence Count by IGHJ6 allele usage

