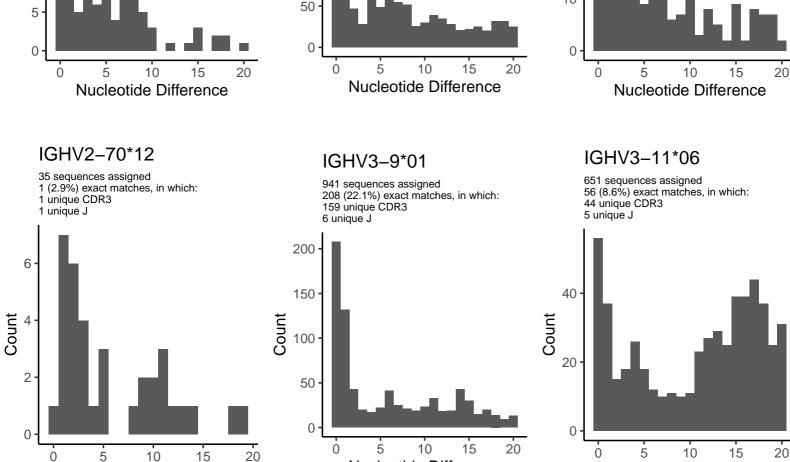


## IGHV1-58\*02 IGHV1-NL1\*01 IGHV1-69\*10 90 sequences assigned 12 sequences assigned 4015 sequences assigned 17 (18.9%) exact matches, in which: No exact matches. 677 (16.9%) exact matches, in which: 17 unique CDR3 647 unique CDR3 4 unique J 6 unique J 5 600 20 4 15 3 400 Count Count 10 200 5 1 0 0 0 5 10 15 20 12 0 9 10 11 10 0 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-58\*01\_03 IGHV2-5\*02 IGHV1-69\*01\_12\_13 129 sequences assigned 35 (27.1%) exact matches, in which: 5562 sequences assigned 1731 (31.1%) exact matches, in which: 779 sequences assigned 95 (12.2%) exact matches, in which: 34 unique CDR3 85 unique CDR3 1616 unique CDR3 5 unique J 5 unique J 6 unique J 40 150 1500 30 100 Count 1000 Count Count 20 50 500 10 0 0 0 0 5 10 15 20 20 0 10 15 10 15 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-69-2\*01 IGHV2-26\*01 IGHV1-69\*06\_14 34 sequences assigned 140 sequences assigned 746 sequences assigned 8 (23.5%) exact matches, in which: 8 unique CDR3 43 (30.7%) exact matches, in which: 155 (20.8%) exact matches, in which: 39 unique CDR3 153 unique CDR3 2 unique J 5 unique J 5 unique J 150 40 6 30 100 Count P 20 50 2 10 0 0 0 20 10 15 0 10 15 20 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference

## IGHV2-70\*01 IGHV3-7\*01 IGHV3-11\*01 308 sequences assigned 38 (12.3%) exact matches, in which: 905 sequences assigned 171 (18.9%) exact matches, in which: 1221 sequences assigned 264 (21.6%) exact matches, in which: 34 unique CDR3 236 unique CDR3 132 unique CDR3 4 unique J 6 unique J 5 unique J 80 150 60 200 Count 100 Count 40 100 50 20 0 0 0 5 10 15 20 5 10 15 0 0 20 0 10 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-70\*04 IGHV3-11\*04 IGHV3-7\*03 111 sequences assigned 278 sequences assigned 1284 sequences assigned 13 (11.7%) exact matches, in which: 37 (13.3%) exact matches, in which: 225 (17.5%) exact matches, in which: 12 unique CDR3 36 unique CDR3 188 unique CDR3 4 unique J 4 unique J 6 unique J 25 200 30 20 150 15 Count Count 20 100 10 10 50 5

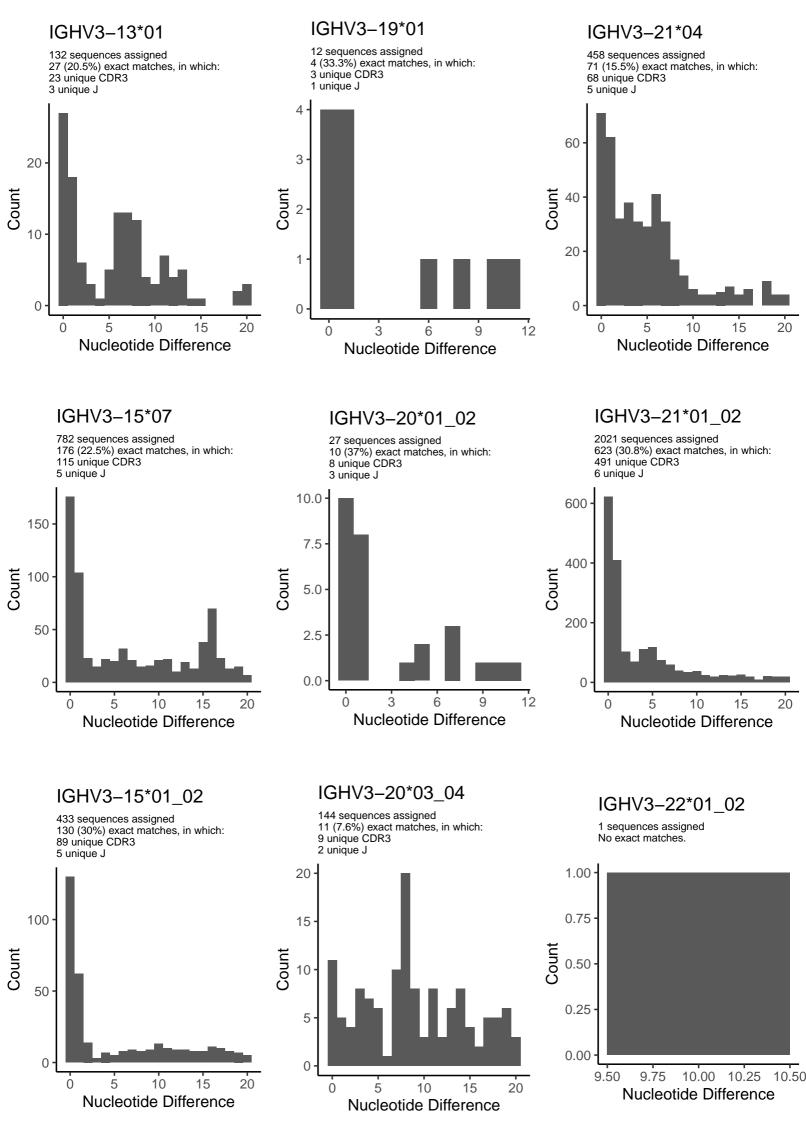
20

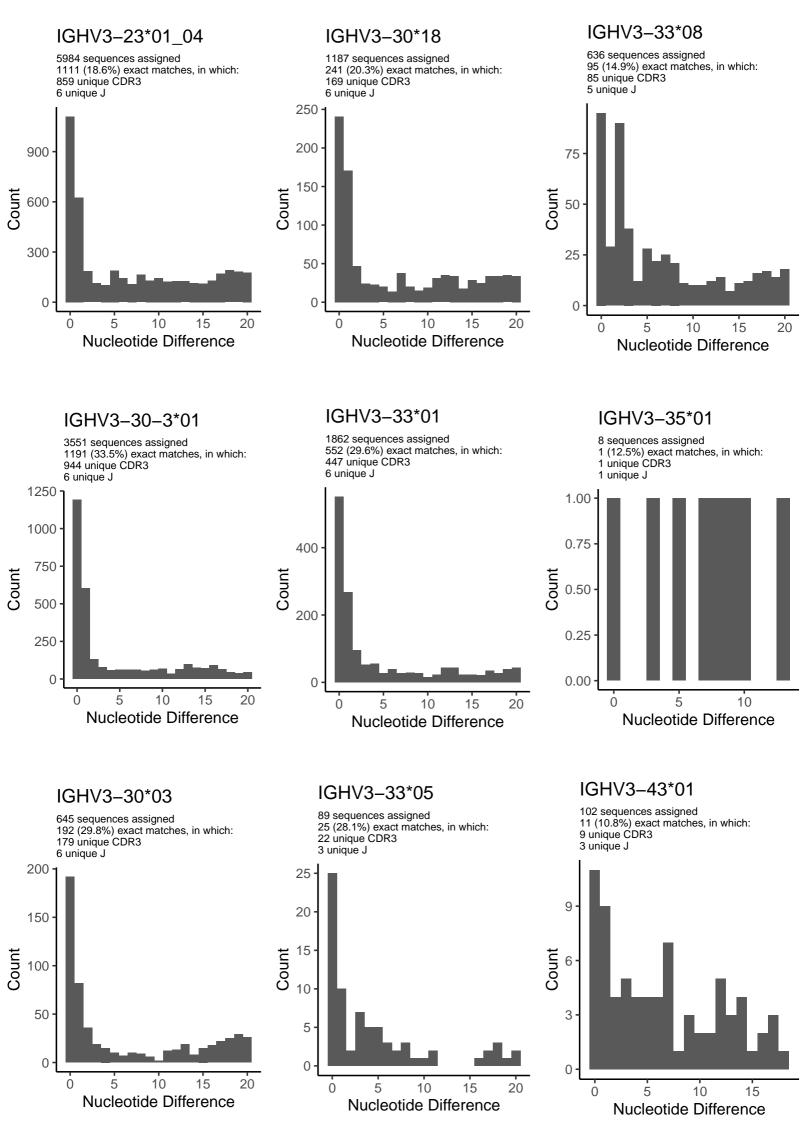
Nucleotide Difference

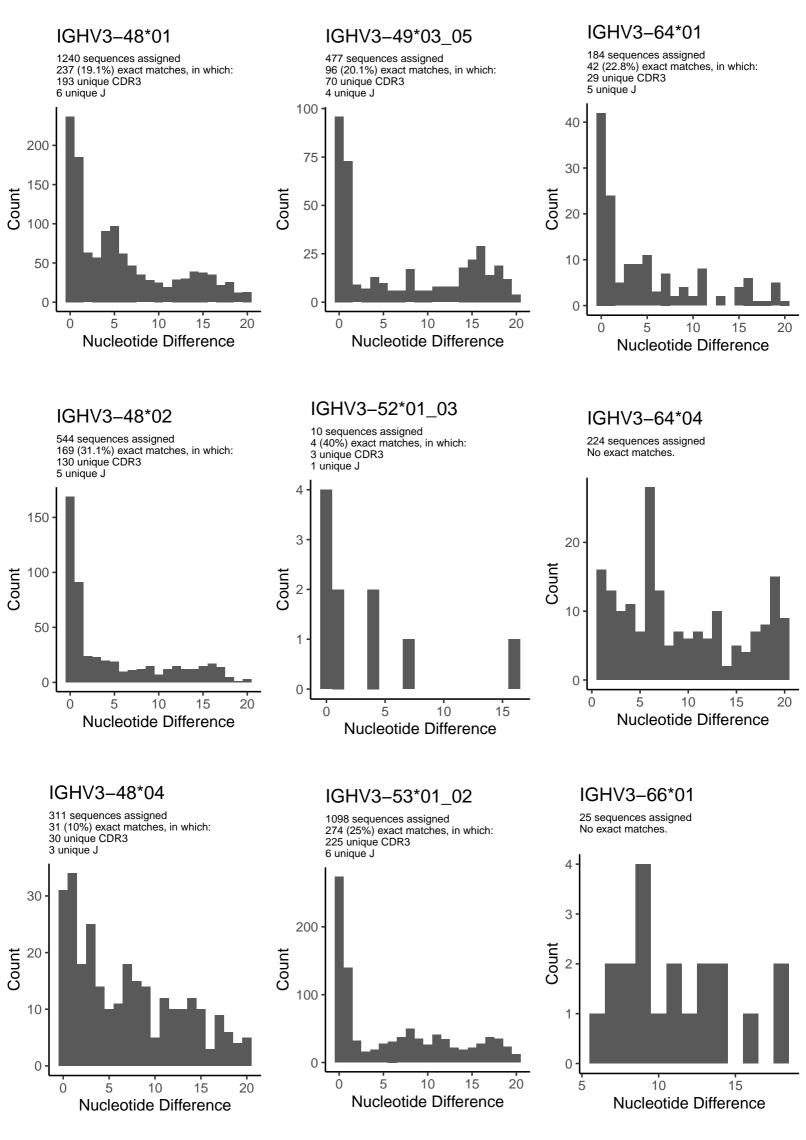


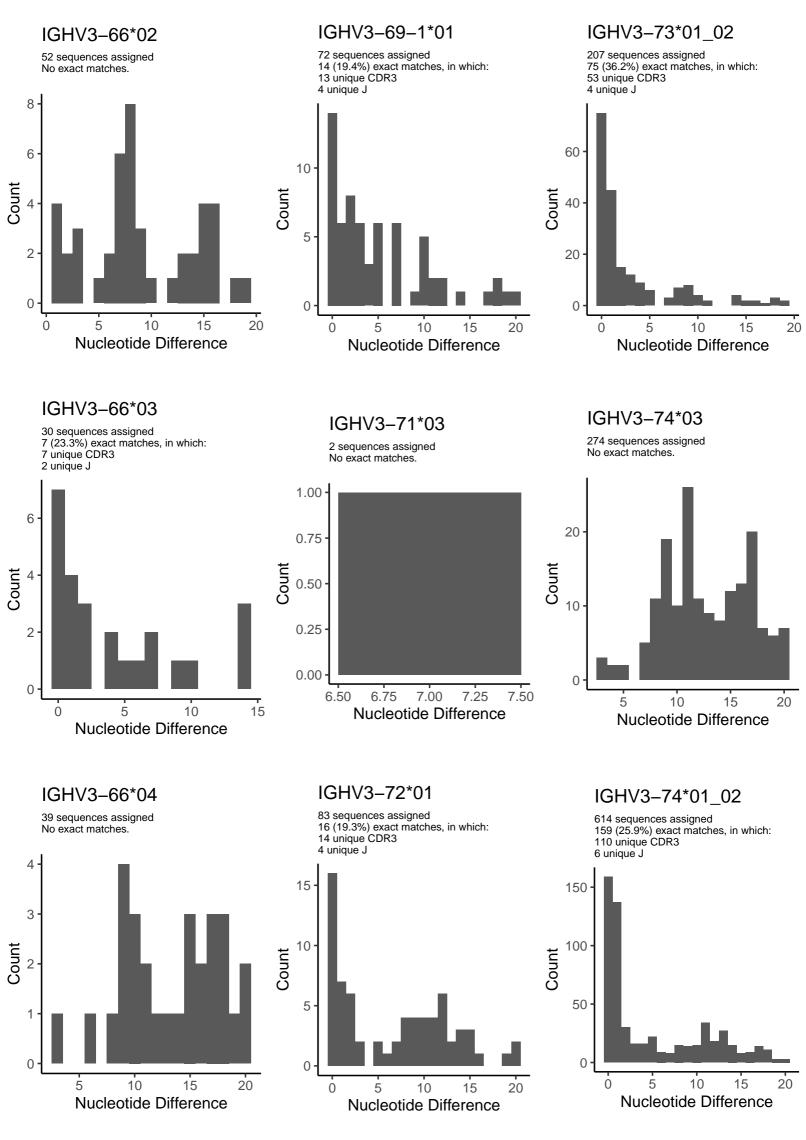
**Nucleotide Difference** 

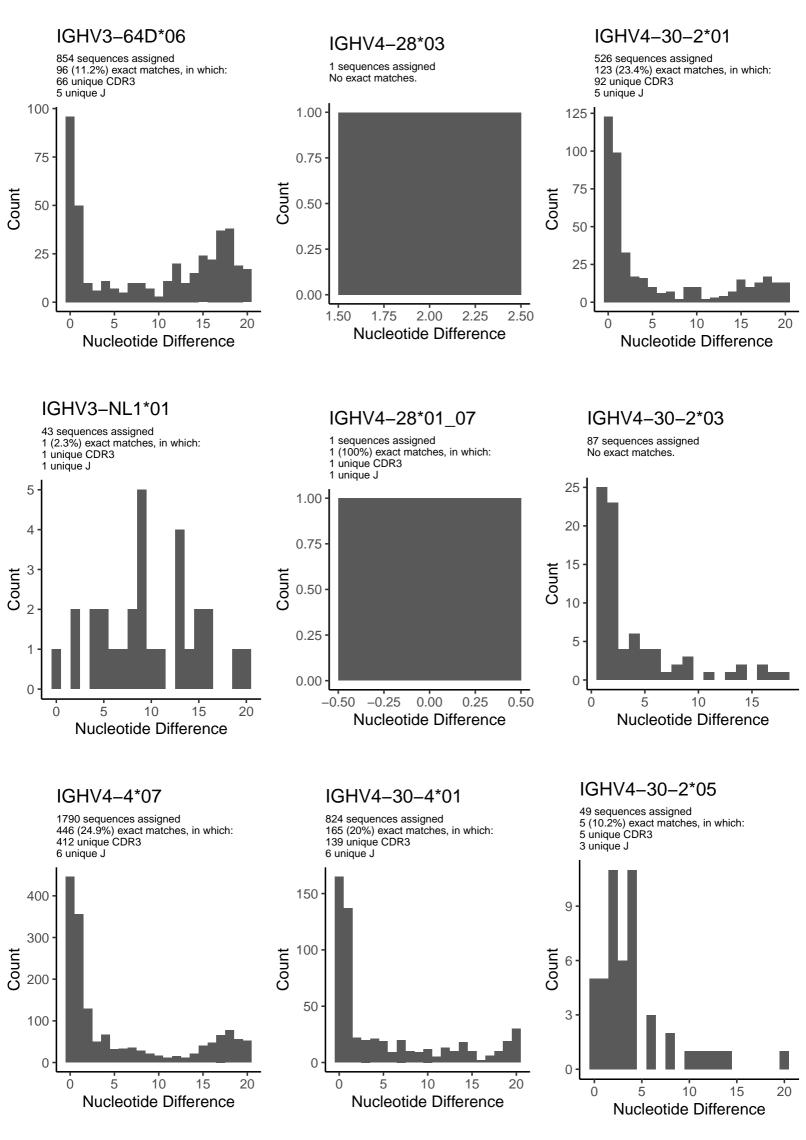
Nucleotide Difference

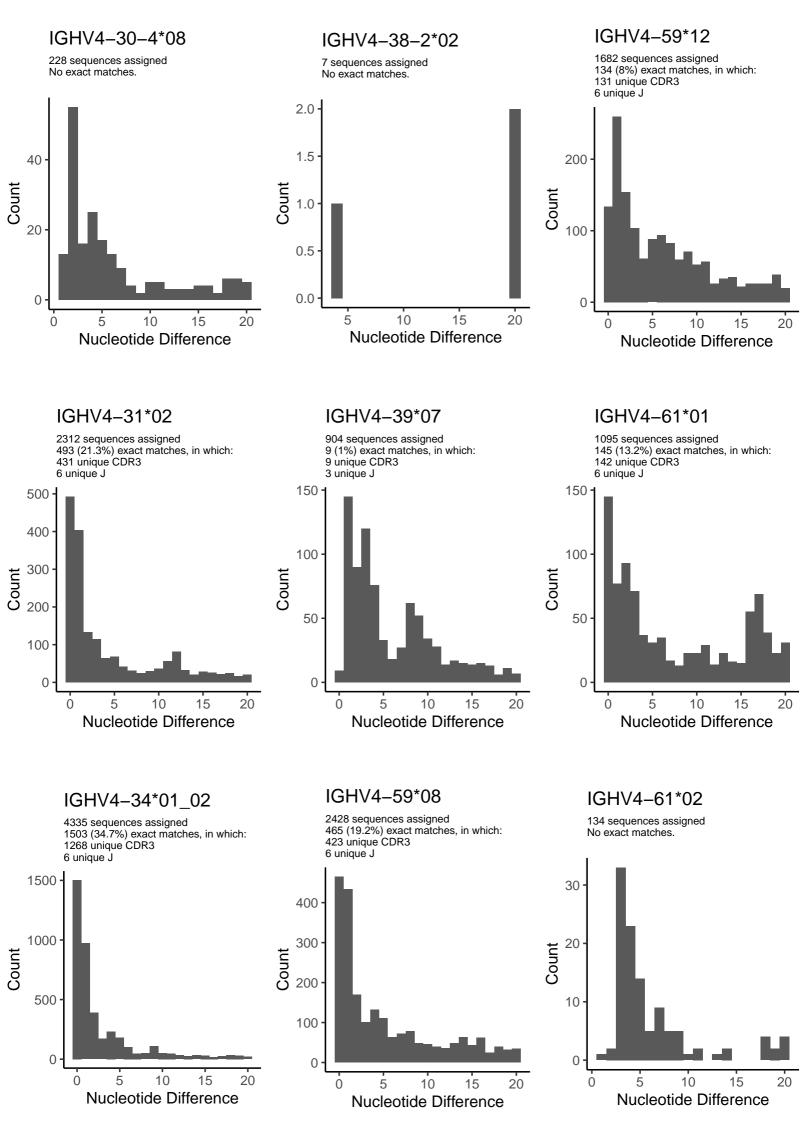


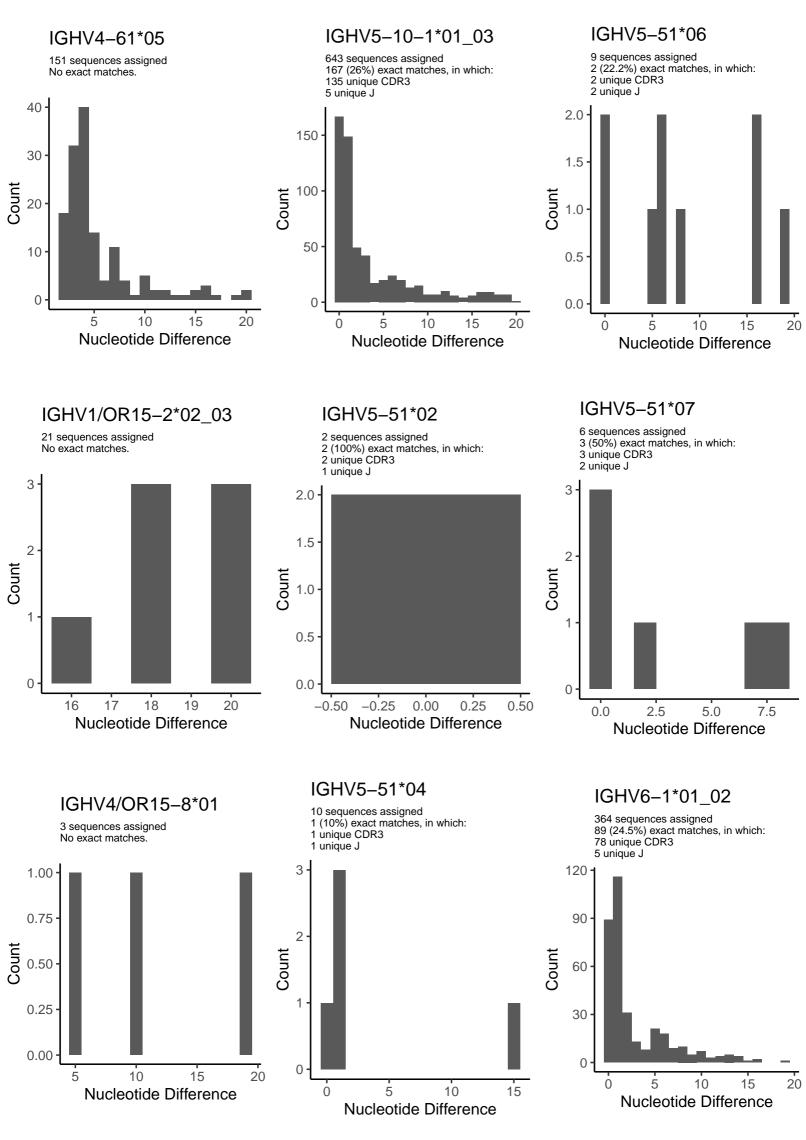












## IGHV7-4-1\*01

- 2 sequences assigned 1 (50%) exact matches, in which: 1 unique CDR3 1 unique J

