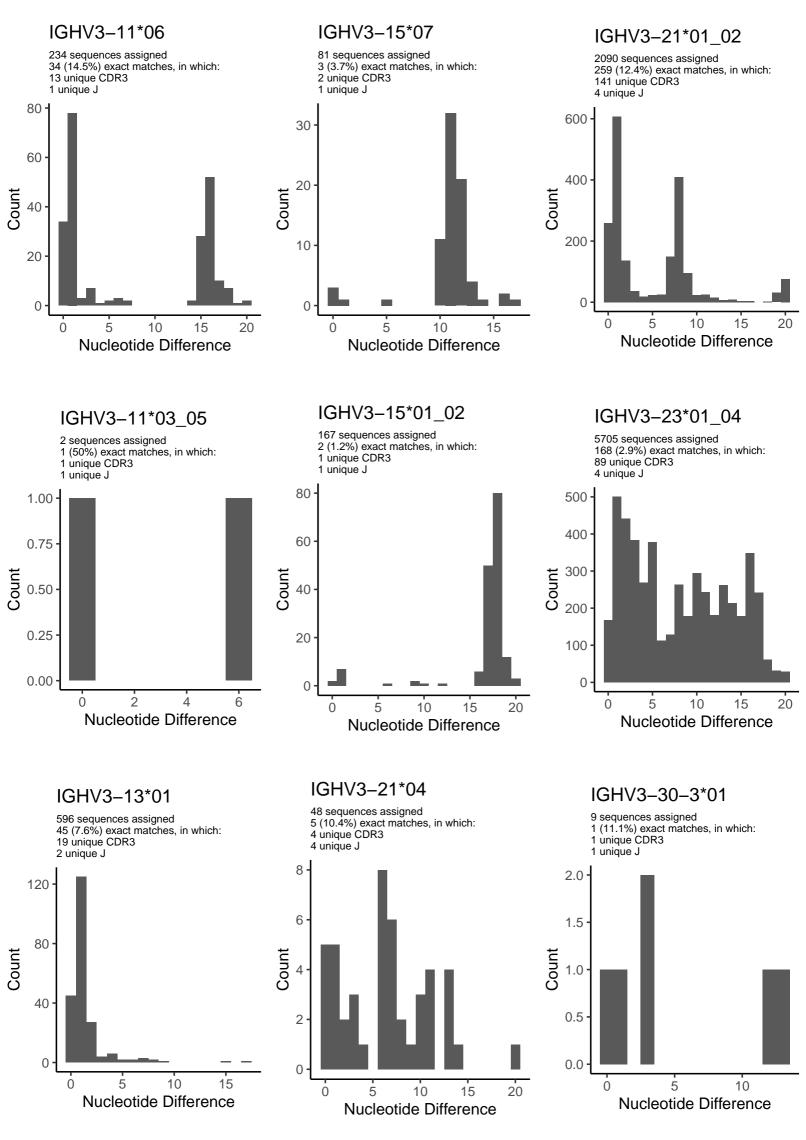
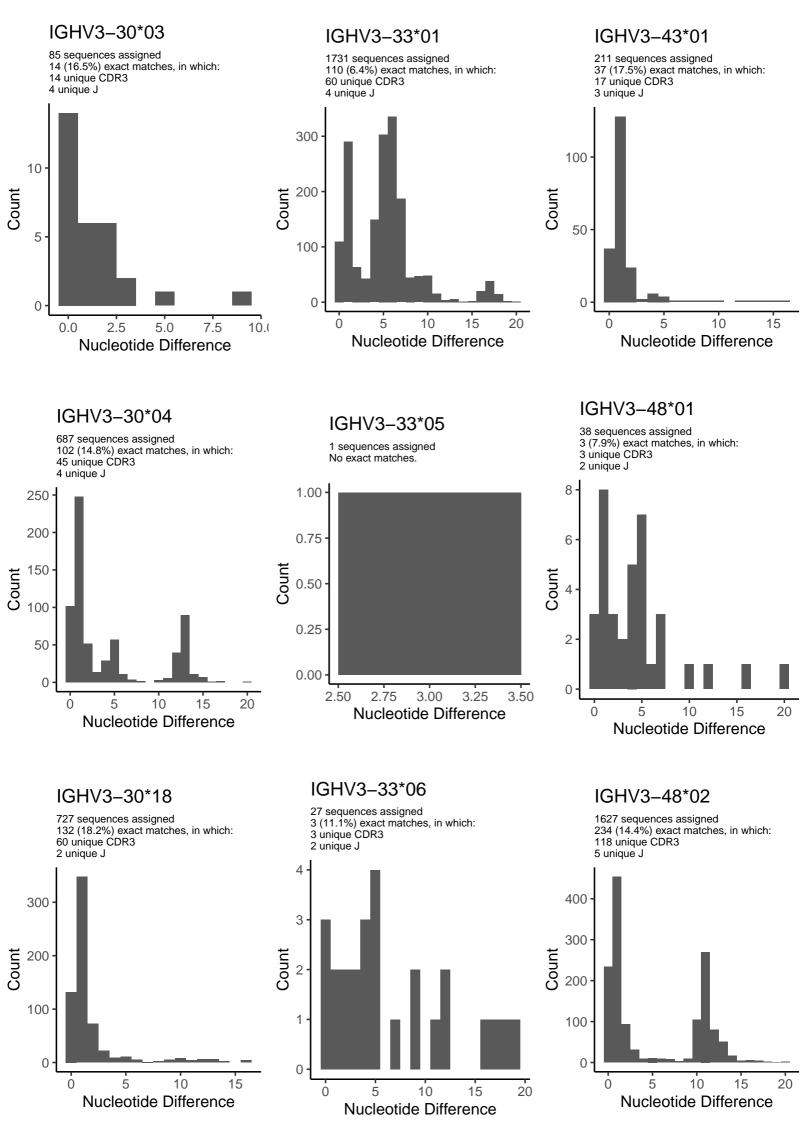
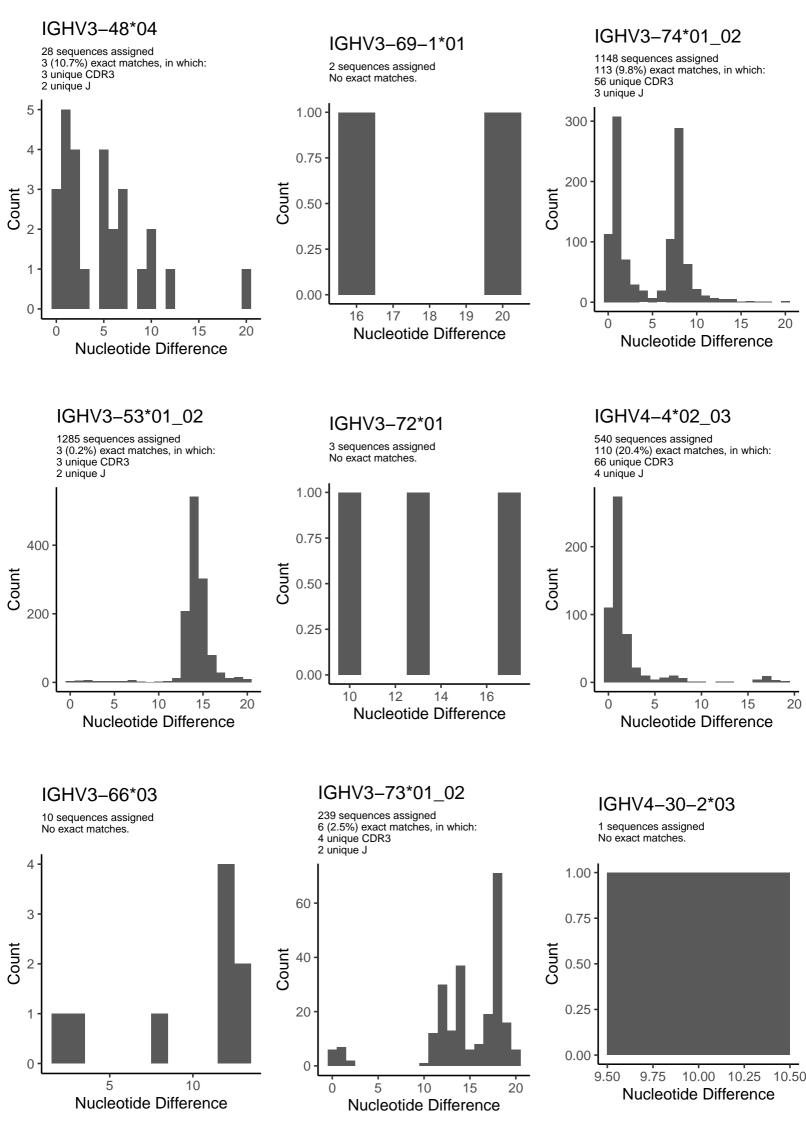
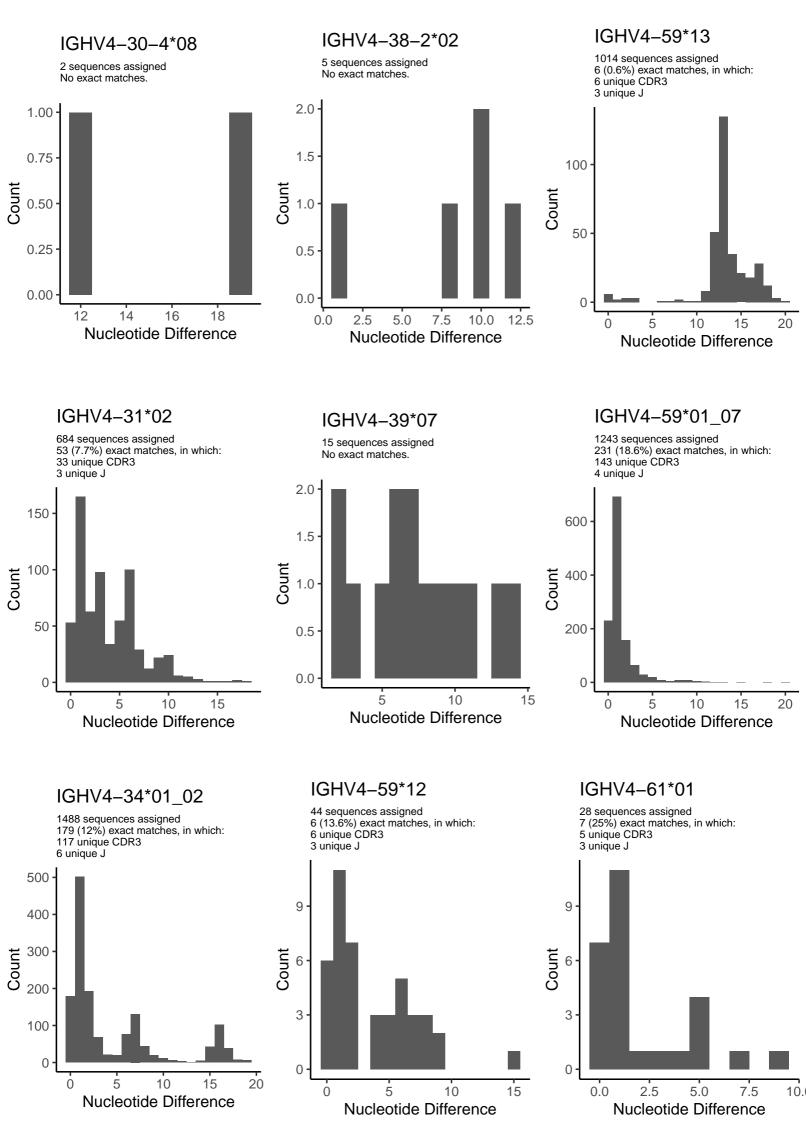


## IGHV2-5\*02 IGHV3-7\*03 IGHV2-70\*02 646 sequences assigned 2953 sequences assigned sequences assigned 20 (3.1%) exact matches, in which: 144 (4.9%) exact matches, in which: 1 (100%) exact matches, in which: 15 unique CDR3 68 unique CDR3 unique CDR3 2 unique J 0 unique J 4 unique J 200 1.00 400 0.75 150 300 Count Count 0.50 Count 100 200 0.25 50 100 0.00 0 0 -0.250.25 0.50 -0.500.00 10 15 20 5 10 15 20 5 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-26\*01 IGHV3-9\*01 IGHV2-70\*12 63 sequences assigned 1742 sequences assigned 15 (23.8%) exact matches, in which: 1 sequences assigned 221 (12.7%) exact matches, in which: 7 unique CDR3 No exact matches. 102 unique CDR3 2 unique J 4 unique J 1.00 40 600 0.75 30 400 Count Count Count 0.50 200 0.25 10 0.00 0 0 4.25 3.50 3.75 4.00 4.50 15 20 0 5 10 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11\*01 IGHV2-70\*01 IGHV3-7\*01 141 sequences assigned 104 sequences assigned 883 sequences assigned 3 (2.1%) exact matches, in which: 21 (20.2%) exact matches, in which: 71 (8%) exact matches, in which: 2 unique CDR3 12 unique CDR3 42 unique CDR3 2 unique J 2 unique J 2 unique J 60 150 2 40 Count Count 100 20 50 0 0 0 10 15 0 5 20 0 6 0 2 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference









## IGHV4-61\*08 IGHV5-51\*01\_03 1773 sequences assigned 29 (1.6%) exact matches, in which: 16 unique CDR3 4 unique J 309 sequences assigned No exact matches. 300 3 Count 2 Count 200 100 0 0 20 5 10 15 0 10 15 20 **Nucleotide Difference Nucleotide Difference** IGHV5-10-1\*01\_03 IGHV6-1\*01\_02 442 sequences assigned 52 (11.8%) exact matches, in which: 36 sequences assigned No exact matches. 29 unique CDR3 3 unique J 100 15 75 Count 10 Count 50

5

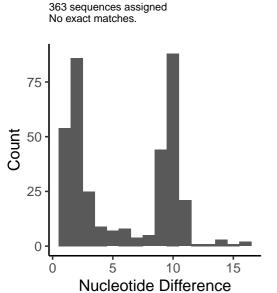
0

2.5

5.0

**Nucleotide Difference** 

7.5



25

0

0.0

2.5

IGHV5-51\*07

5.0

**Nucleotide Difference** 

7.5

10.0



