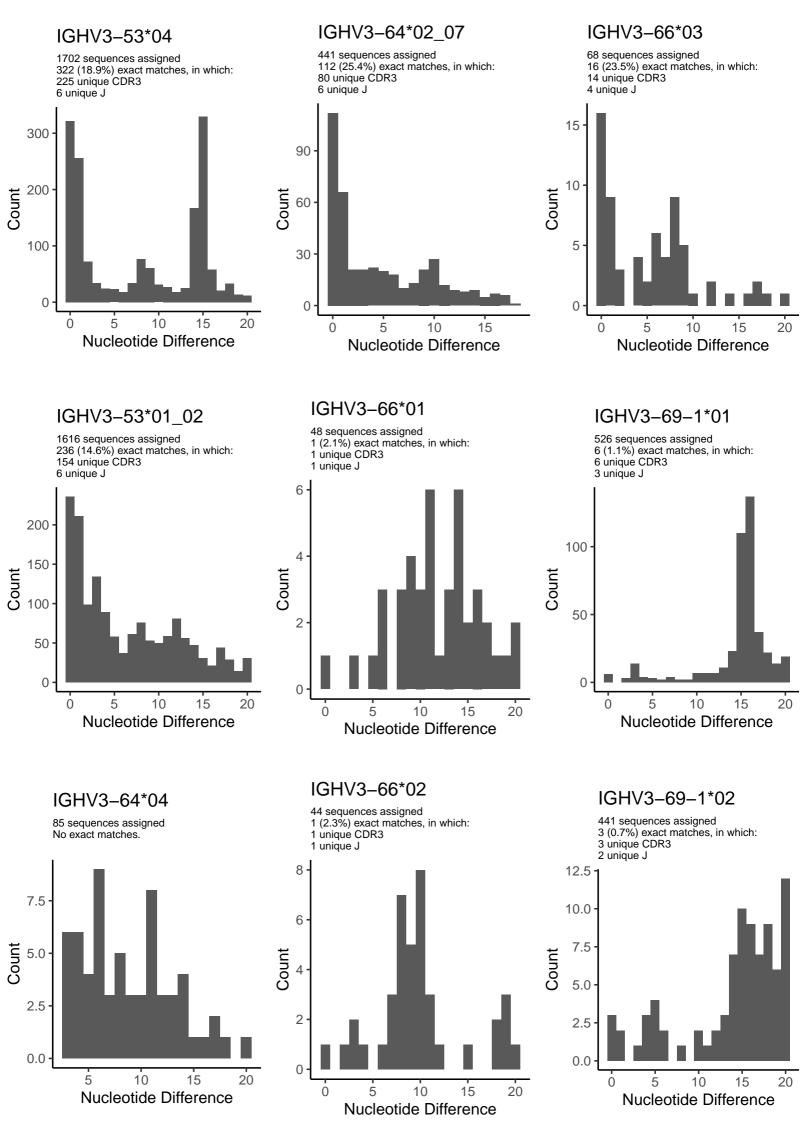
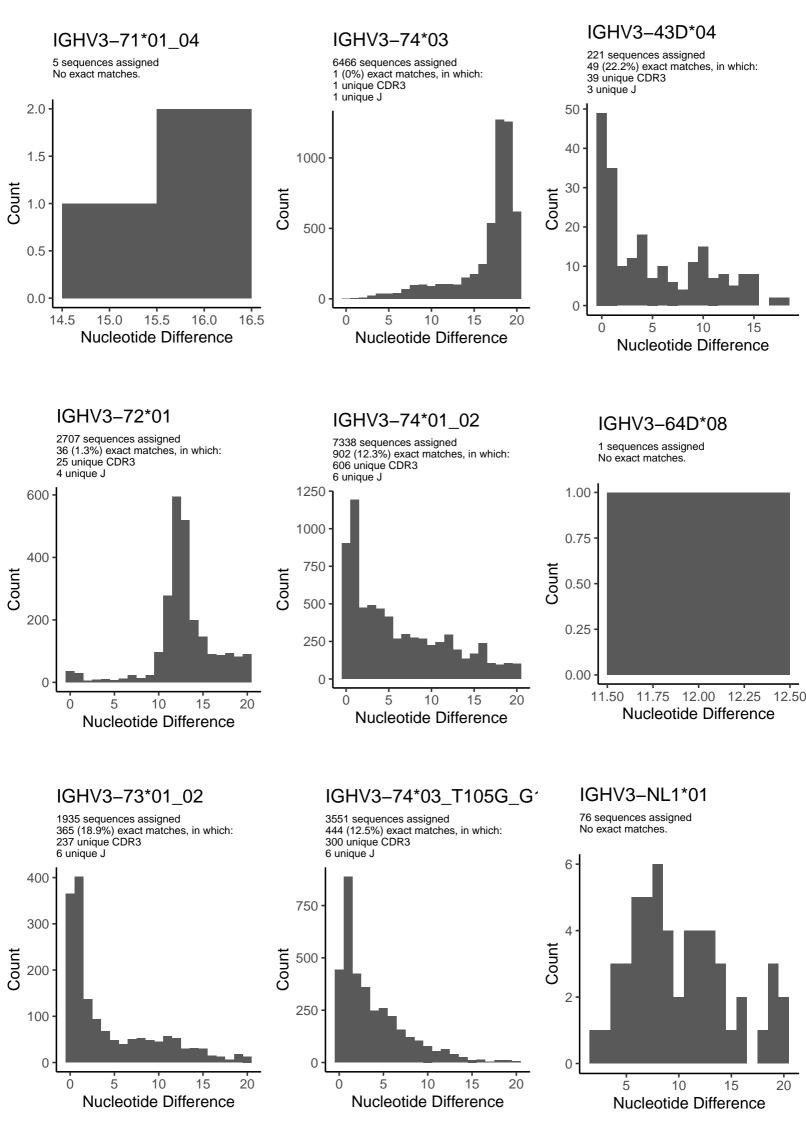
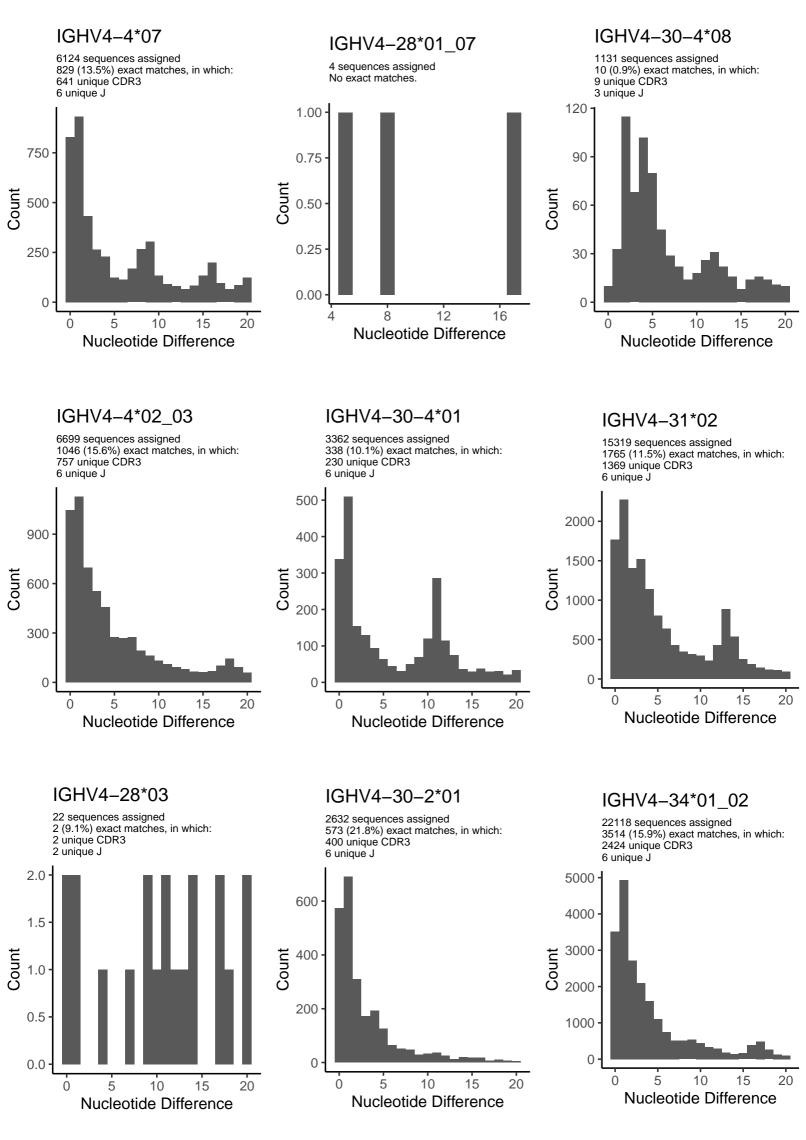
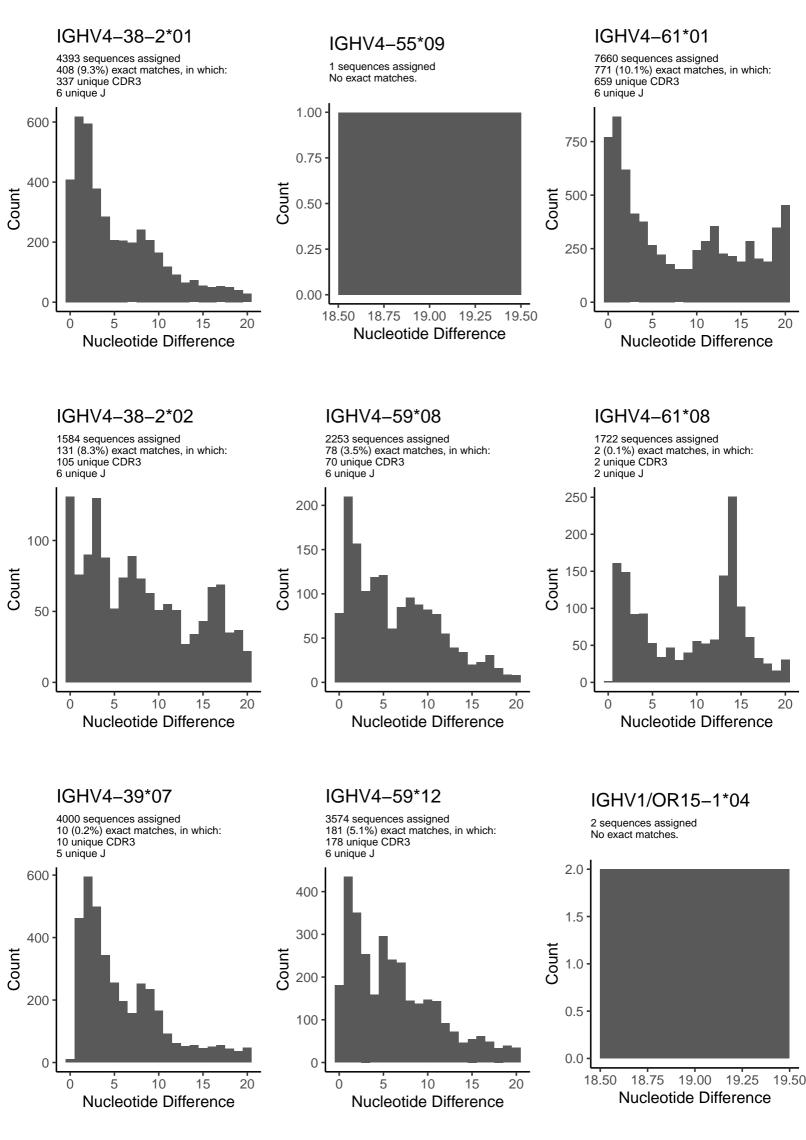


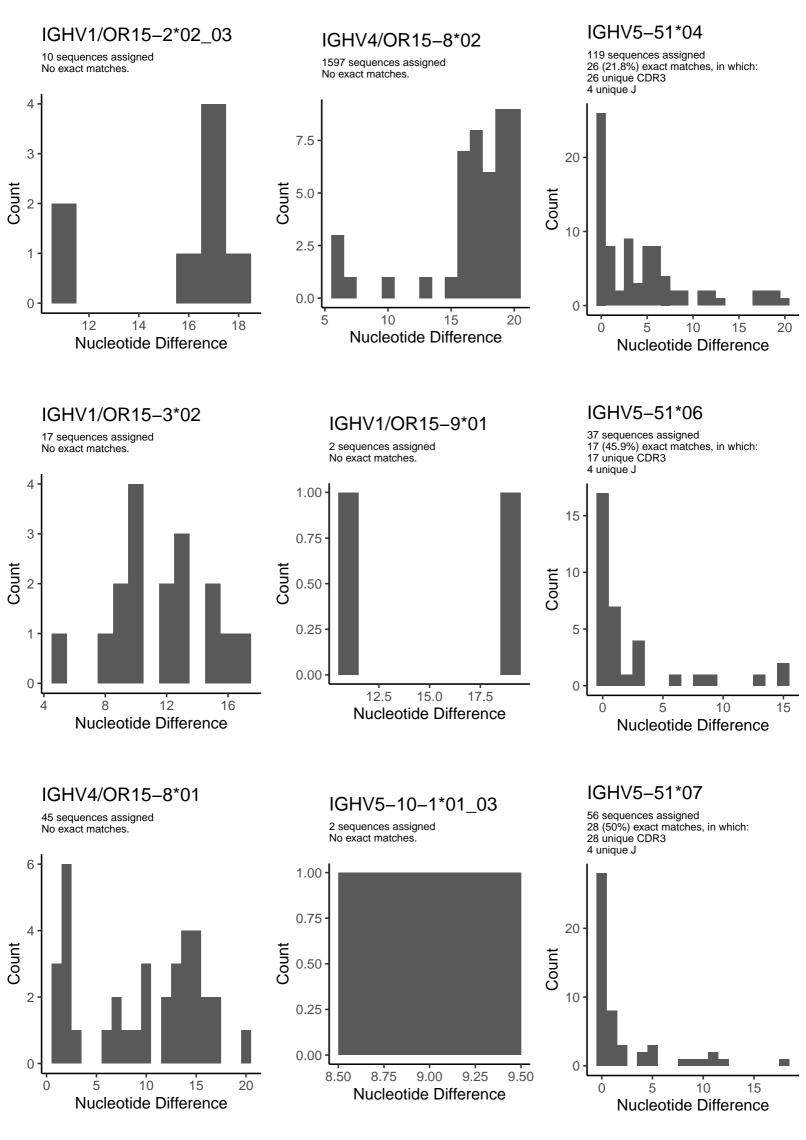
IGHV3-43*01 IGHV3-48*01 IGHV3-49*04 327 sequences assigned 33 (10.1%) exact matches, in which: 3078 sequences assigned 1587 sequences assigned 500 (16.2%) exact matches, in which: 284 (17.9%) exact matches, in which: 18 unique CDR3 167 unique CDR3 350 unique CDR3 4 unique J 6 unique J 6 unique J 500 30 400 200 300 Count Count 200 100 10 100 0 0 0 5 10 15 20 5 10 15 20 0 0 0 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-47*01 IGHV3-49*03_05 IGHV3-48*03 6 sequences assigned 2 (33.3%) exact matches, in which: 1 unique CDR3 1802 sequences assigned 207 (11.5%) exact matches, in which: 10544 sequences assigned 1084 (10.3%) exact matches, in which: 124 unique CDR3 667 unique CDR3 1 unique J 6 unique J 6 unique J 3 300 1000 2 Count Count 200 500 100 0 0 0 0 5 10 15 20 10 15 20 0 5 0 2 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-52*01_03 IGHV3-48*04 IGHV3-47*02 25 sequences assigned 1558 sequences assigned 1 sequences assigned 9 (36%) exact matches, in which: 28 (1.8%) exact matches, in which: No exact matches. 6 unique CDR3 28 unique CDR3 3 unique J 5 unique J 1.00 7.5 150 0.75 0.50 5.0 100 0.25 50 2.5 0.00 0 0.0 14.00 14.25 14.50 13.50 13.75 5 10 15 20 15 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference











IGHV7-4-1*01 IGHV6-1*01_02 148 sequences assigned 27 (18.2%) exact matches, in which: 1374 sequences assigned 223 (16.2%) exact matches, in which: 23 unique CDR3 3 unique J 168 unique CDR3 6 unique J 60 300 40 200 Count Count 20 100 0 0 10 15 5 20 0 10 **Nucleotide Difference** Nucleotide Difference IGHV3/OR16-9*01 IGHV7-81*01 2 sequences assigned 1 sequences assigned No exact matches. No exact matches. 2.0 1.00 1.5 0.75 Count Count 0.25 0.5 0.00 0.0 1.50 1.75 2.00 2.25 2.50 4.25 4.50 3.50 3.75 4.00

Nucleotide Difference

IGHV3/OR16-13*01

Nucleotide Difference

1 sequences assigned No exact matches.

