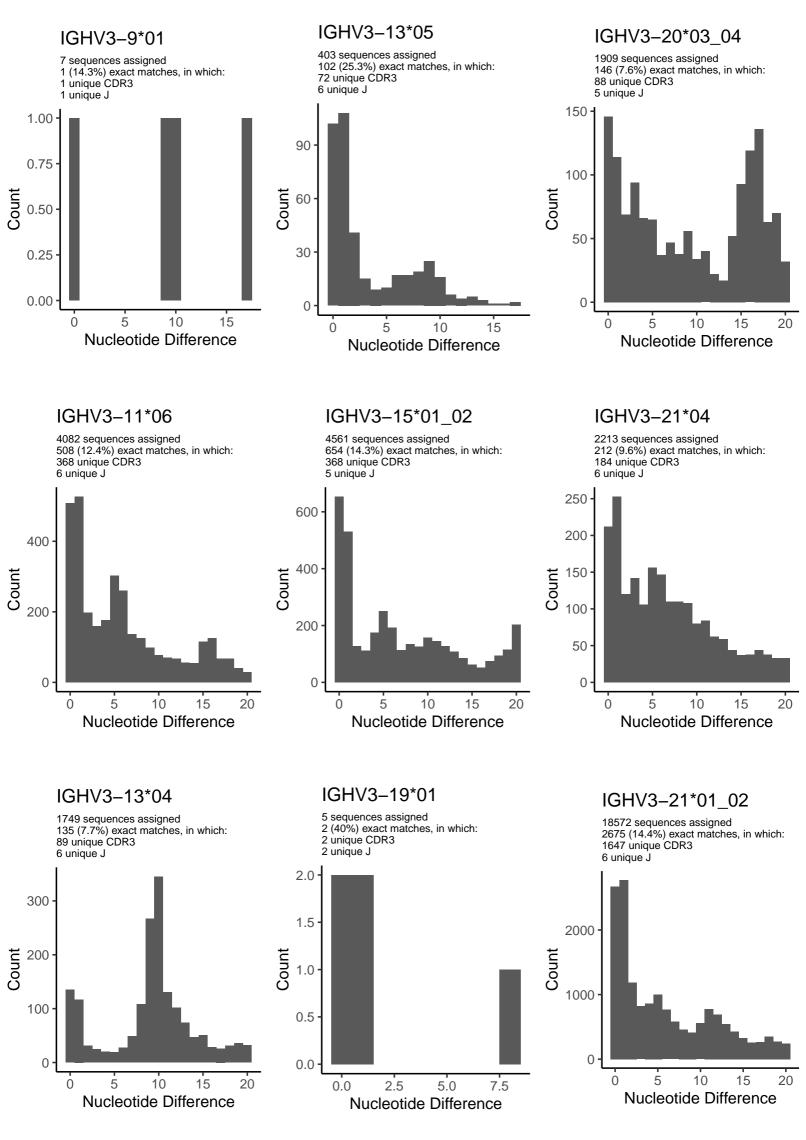
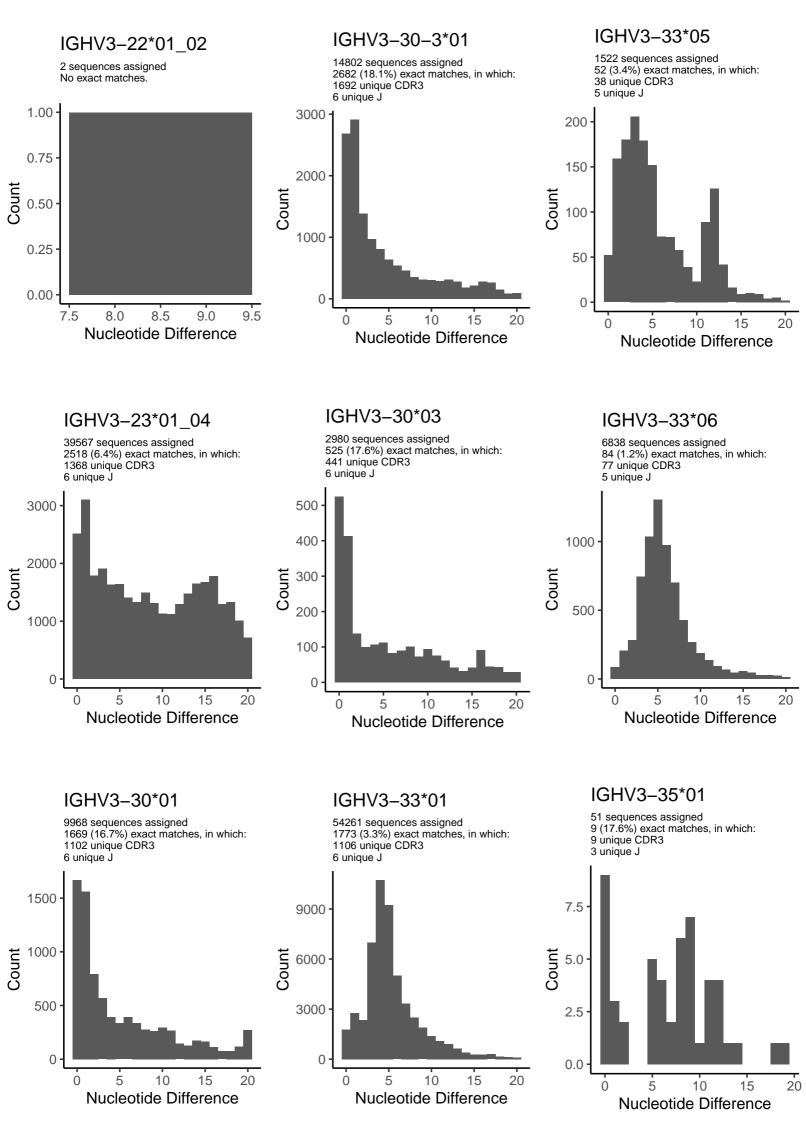
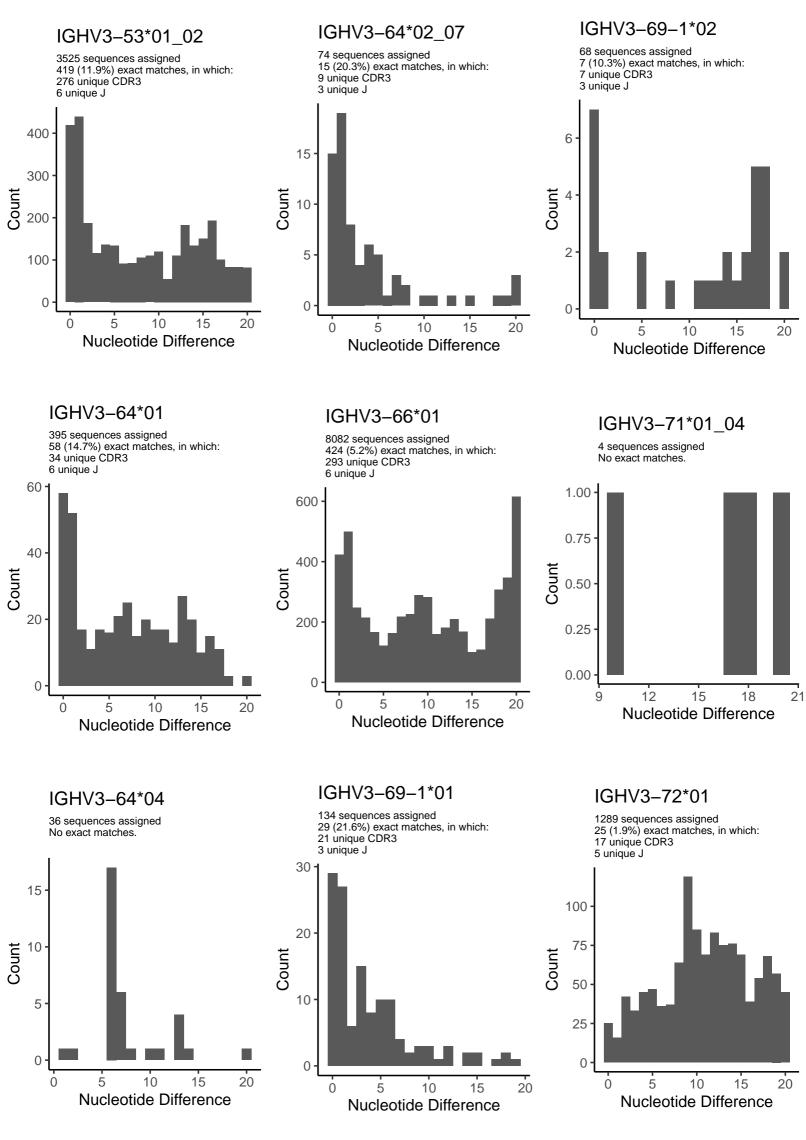


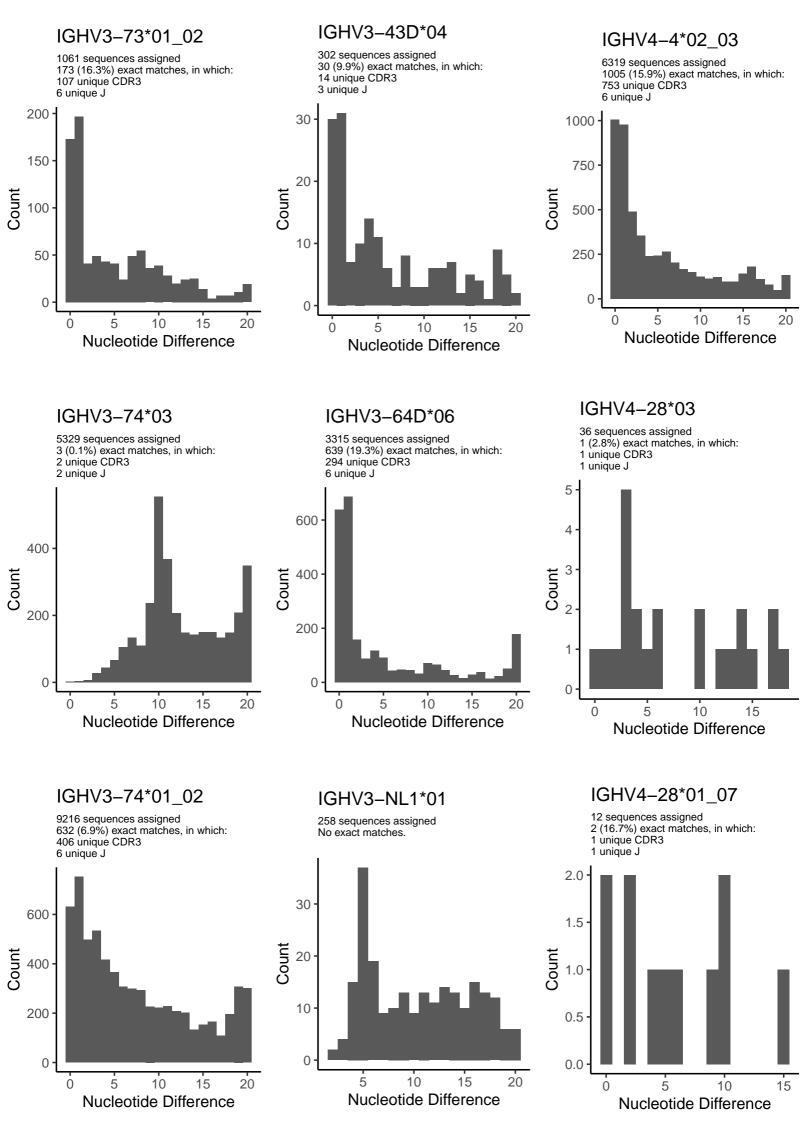
IGHV2-70*12 IGHV2-5*02 IGHV3-7*03 310 sequences assigned 6709 sequences assigned 5753 sequences assigned 1 (0.3%) exact matches, in which: 314 (4.7%) exact matches, in which: 662 (11.5%) exact matches, in which: 1 unique CDR3 220 unique CDR3 426 unique CDR3 1 unique J 6 unique J 6 unique J 600 60 750 400 Count Count Count 40 500 200 250 20 0 0 0 5 10 15 20 5 10 15 20 0 0 10 15 20 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-26*01 IGHV2-70*11_15 IGHV3-7*04 1011 sequences assigned 158 (15.6%) exact matches, in which: 2054 sequences assigned 3715 sequences assigned 184 (5%) exact matches, in which: 312 (15.2%) exact matches, in which: 203 unique CDR3 111 unique CDR3 115 unique CDR3 6 unique J 5 unique J 5 unique J 250 300 600 200 400 200 150 Count Count 100 200 100 50 0 0 0 20 20 10 15 5 10 15 5 10 15 20 0 5 0 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV3-7*05 IGHV2-70*01 IGHV3-7*01 641 sequences assigned 718 sequences assigned 1964 sequences assigned 50 (7.8%) exact matches, in which: 125 (17.4%) exact matches, in which: 142 (7.2%) exact matches, in which: 46 unique CDR3 105 unique CDR3 122 unique CDR3 6 unique J 6 unique J 6 unique J 50 150 150 40 100 30 Count 100 20 50 50 10 0 0 0 10 15 20 5 10 15 20 0 0 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

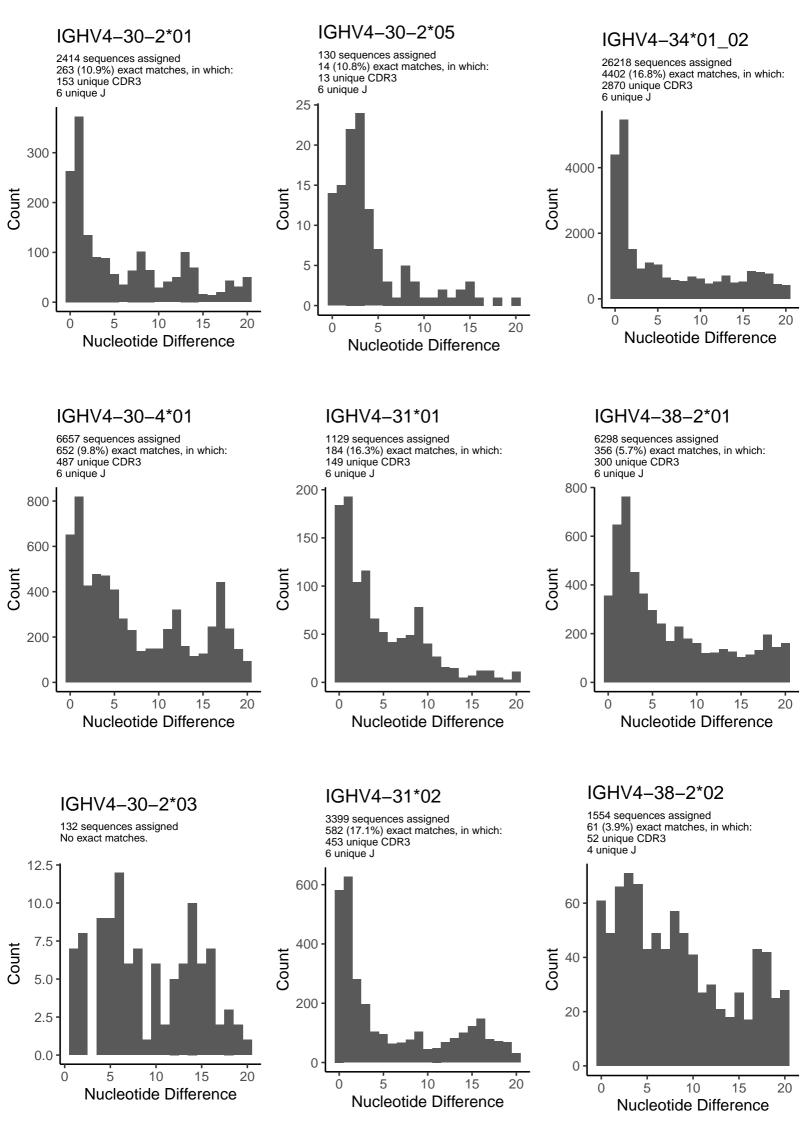


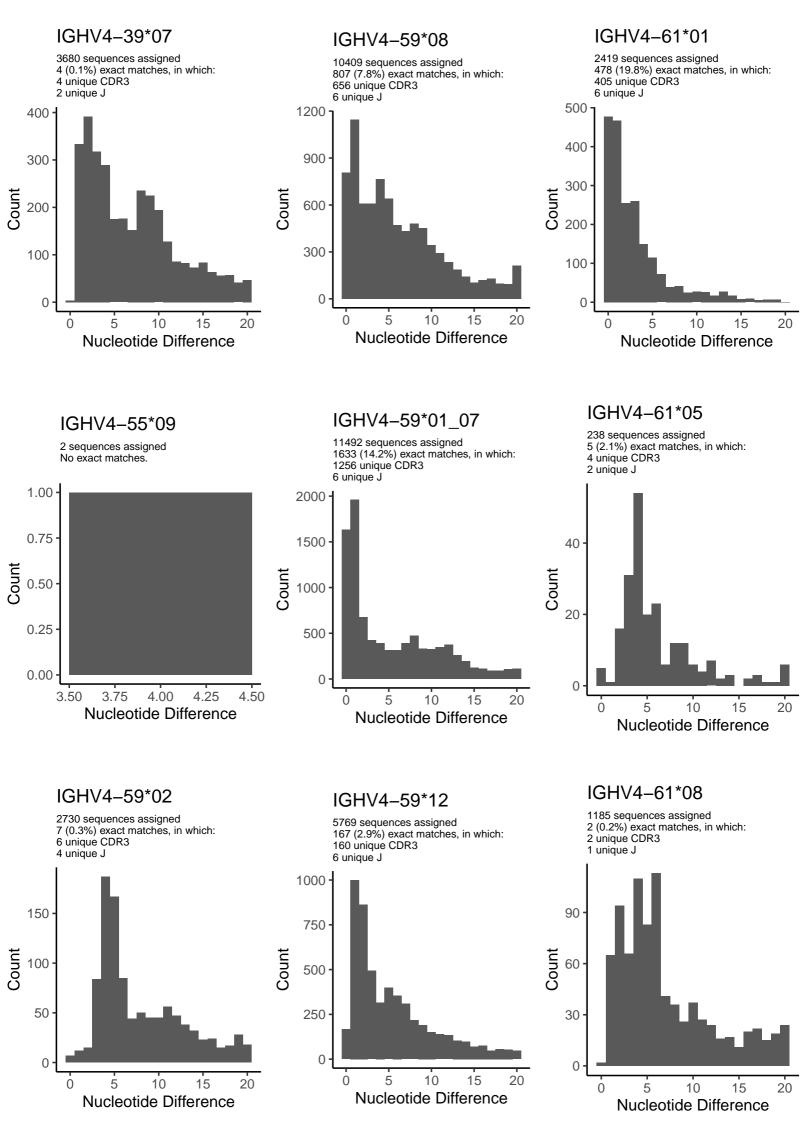


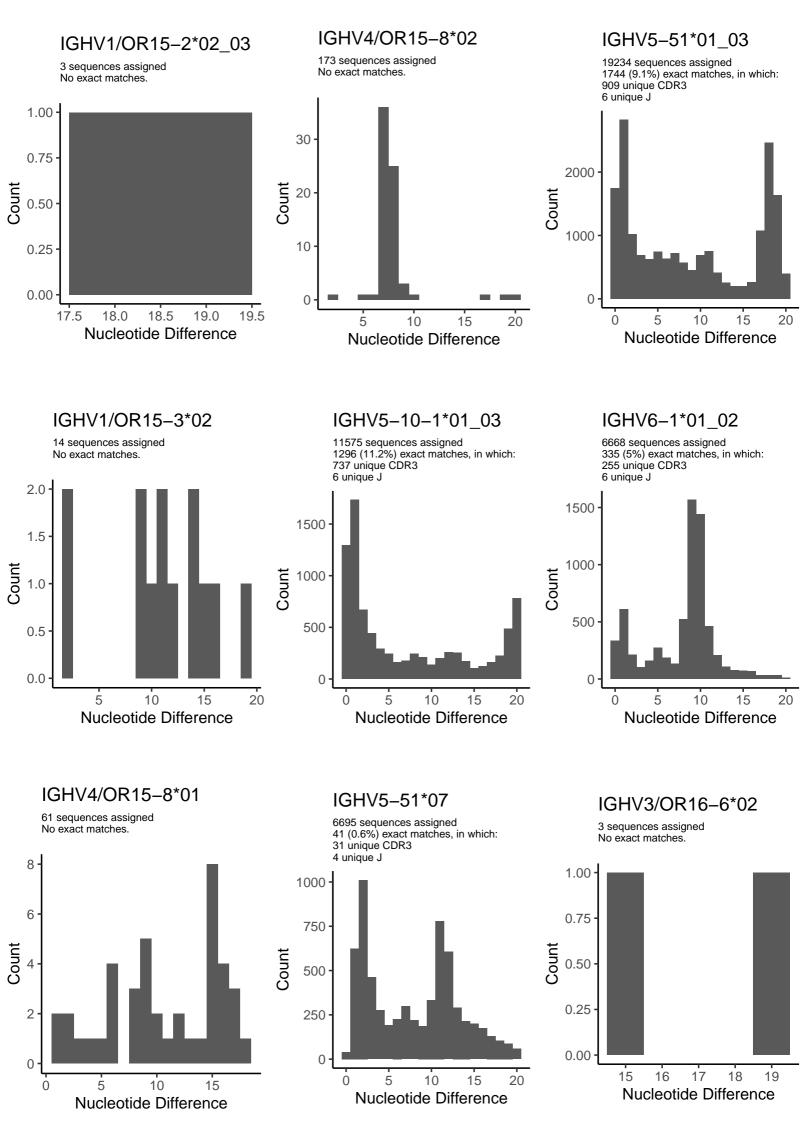
IGHV3-43*01 IGHV3-48*01 IGHV3-49*03_05 1093 sequences assigned 43 (3.9%) exact matches, in which: 2135 sequences assigned 209 (9.8%) exact matches, in which: 6283 sequences assigned 475 (7.6%) exact matches, in which: 21 unique CDR3 304 ùniqué CDR3 120 ùniqué CDR3 3 unique J 6 unique J 6 unique J 60 300 400 40 200 Count Count 200 20 100 0 0 0 0 5 10 15 20 5 10 15 20 0 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-47*01 IGHV3-52*02 IGHV3-48*03 11 sequences assigned 7 (63.6%) exact matches, in which: 5 unique CDR3 8 sequences assigned 2 (25%) exact matches, in which: 2 unique CDR3 12604 sequences assigned 1316 (10.4%) exact matches, in which: 769 unique CDR3 2 unique J 1 unique J 6 unique J 3 1500 6 1000 Count P Count 500 2 0 0 0 0 10 20 0.5 1.0 1.5 -0.50.0 0 8 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-52*01_03 IGHV3-49*04 IGHV3-47*02 5 sequences assigned 1432 sequences assigned 6 sequences assigned 3 (60%) exact matches, in which: 218 (15.2%) exact matches, in which: 3 unique CDR3 No exact matches 132 unique CDR3 2 unique J 6 unique J 2.0 200 1.5 150 2 Count 100 0.5 50 0.0 0 0 10 20 10 15 5 0.0 2.5 5.0 7.5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference









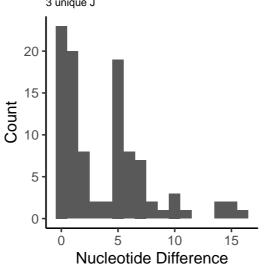


1 sequences assigned No exact matches. 1.00 0.75 0.50 0.25 0.00 19.50 19.75 20.00 20.25 20.50 Nucleotide Difference

IGHV3/OR16-8*01

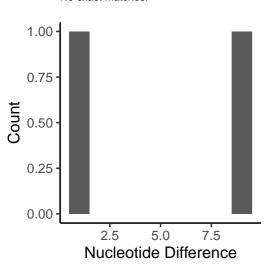
IGHV7-4-1*01

101 sequences assigned 23 (22.8%) exact matches, in which: 21 unique CDR3 3 unique J



IGHV3/OR16-9*01

2 sequences assigned No exact matches.



IGHV3/OR16-10*01_03

1 sequences assigned No exact matches.

