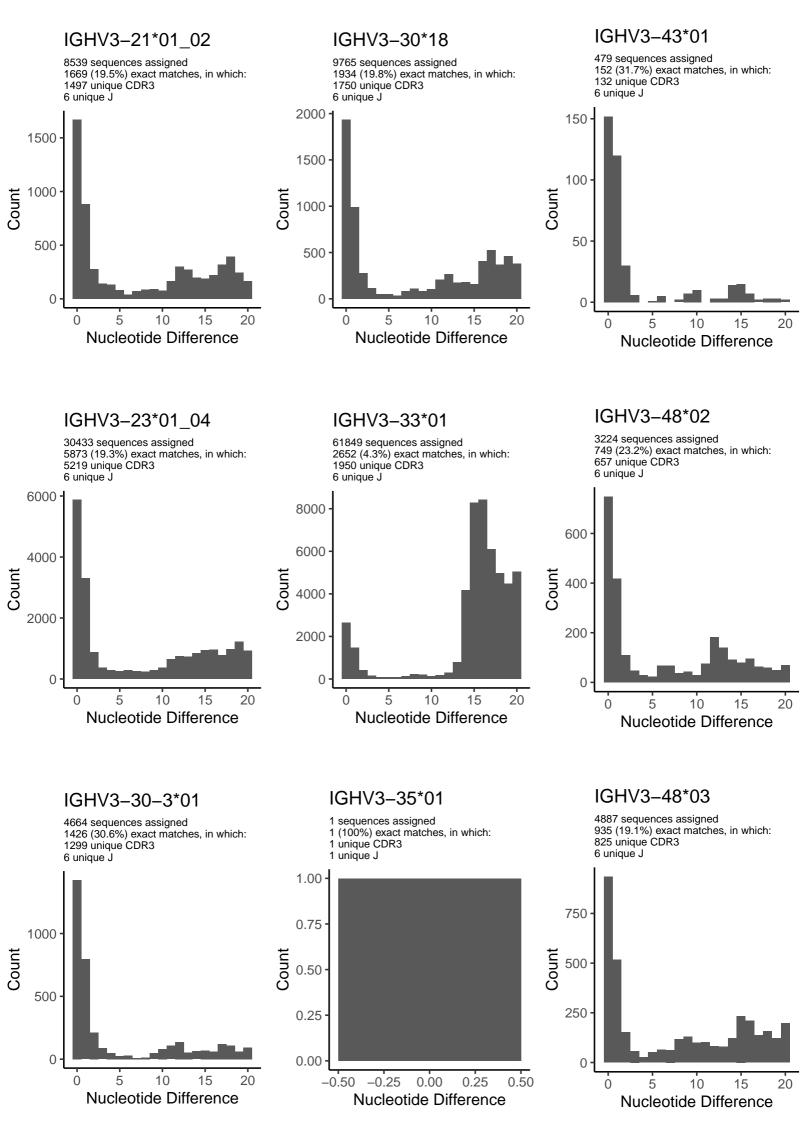
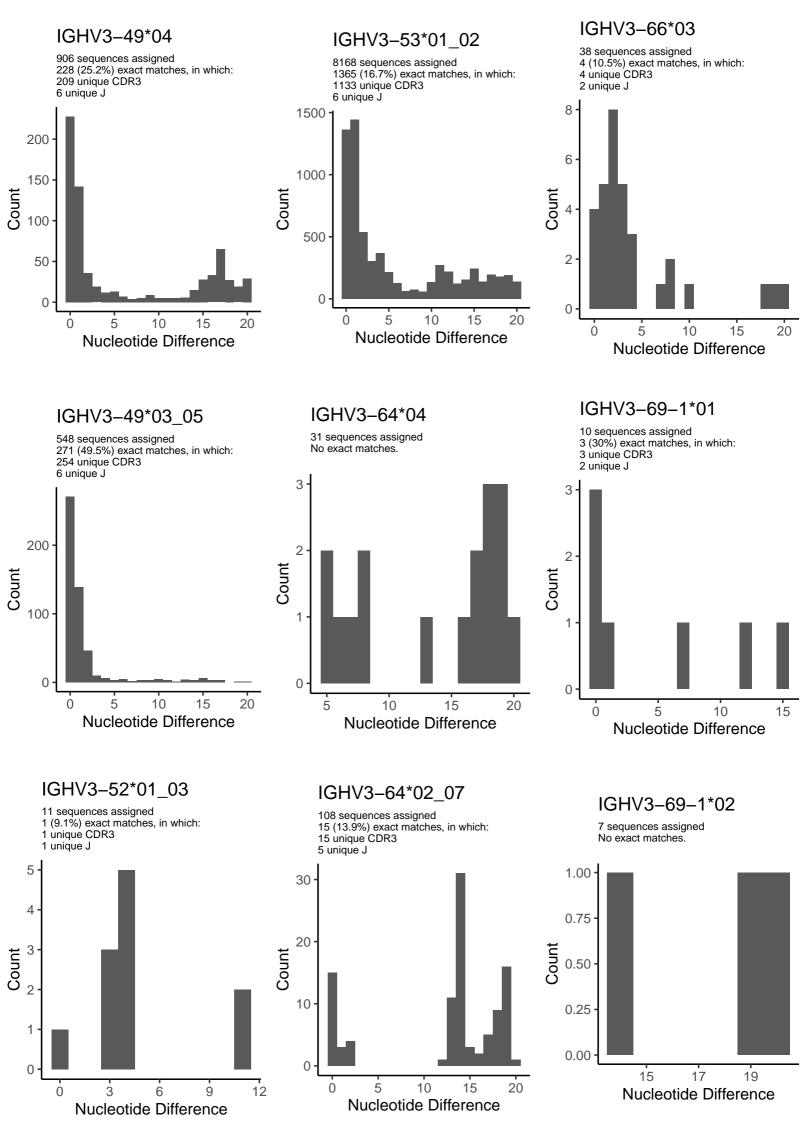
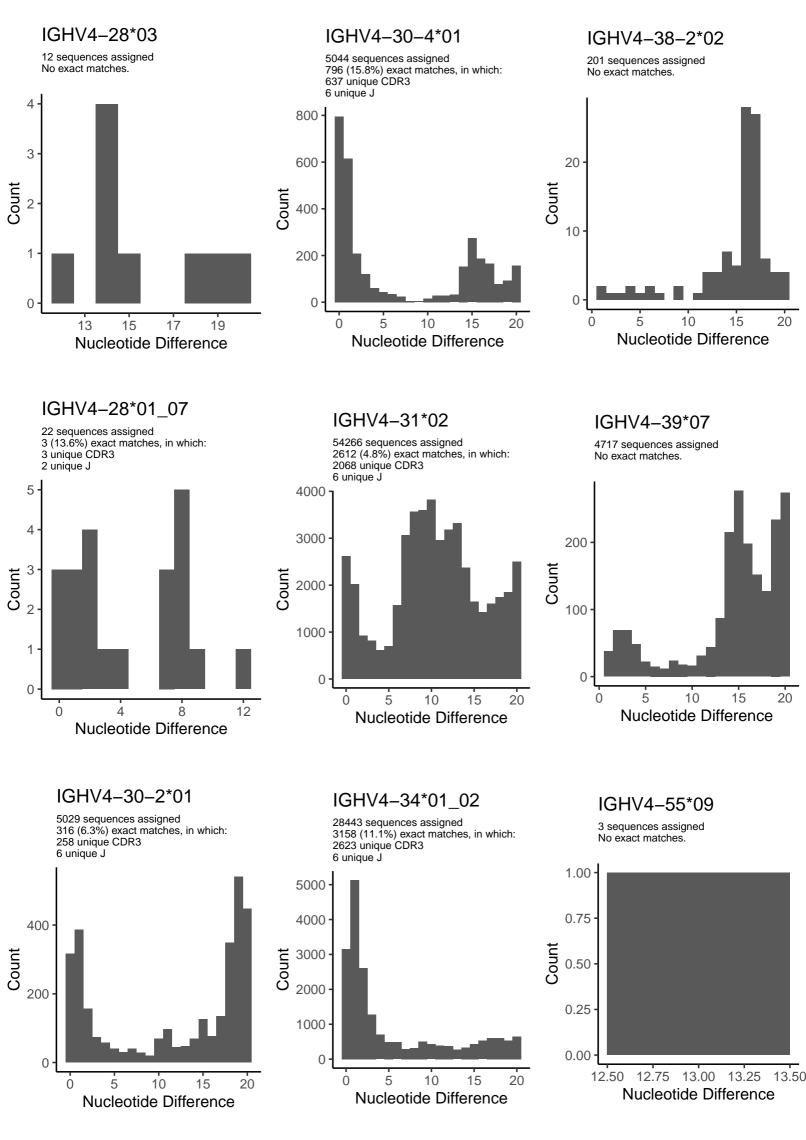


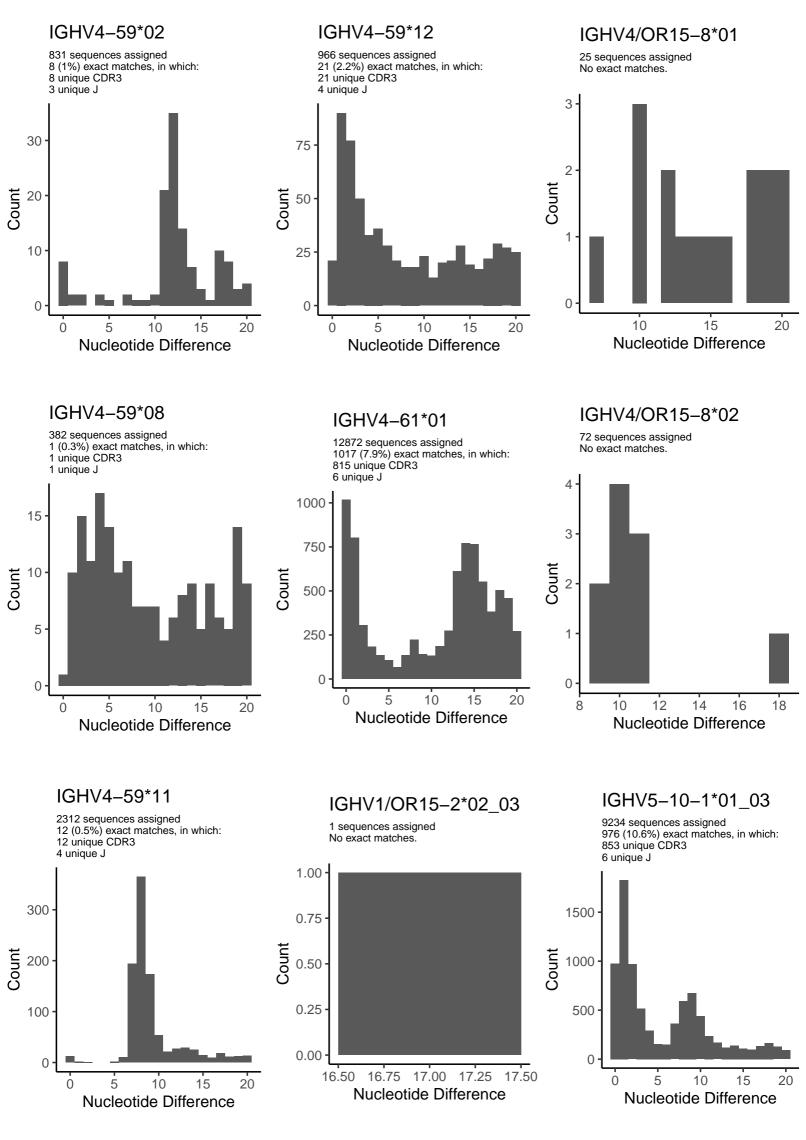
IGHV3-7*05 IGHV3-11*06 IGHV3-15*07 1268 sequences assigned 300 (23.7%) exact matches, in which: 3068 sequences assigned 33159 sequences assigned 573 (1.7%) exact matches, in which: 448 (14.6%) exact matches, in which: 541 unique CDR3 380 unique CDR3 272 unique CDR3 6 unique J 6 unique J 6 unique J 300 -400 900 200 300 Count Count 600 200 100 300 100 0 0 0 15 20 5 10 15 20 5 10 20 5 10 15 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-13*01 IGHV3-15*01_02 IGHV3-9*01 7686 sequences assigned 453 (5.9%) exact matches, in which: 454 sequences assigned 181 (39.9%) exact matches, in which: 5365 sequences assigned 1273 (23.7%) exact matches, in which: 149 unique CDR3 419 unique CDR3 1135 unique CDR3 5 unique J 6 unique J 6 unique J 400 150 1000 300 Count Count 100 200 500 50 100 0 0 0 10 20 5 10 15 20 10 15 20 0 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-13*05 IGHV3-20*03_04 IGHV3-11*01 239 sequences assigned 78 sequences assigned 3745 sequences assigned 88 (36.8%) exact matches, in which: 38 (48.7%) exact matches, in which: 785 (21%) exact matches, in which: 77 unique CDR3 35 unique CDR3 698 unique CDR3 5 unique J 5 unique J 6 unique J 800 75 30 600 Count Month Count 50 20 25 200 10 0 0 0 5 10 15 0 20 7.5 0.0 2.5 5.0 10.0 0.0 2.5 5.0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference





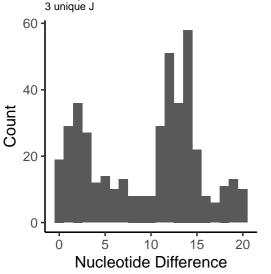
IGHV3-72*01 IGHV3-74*01_02 IGHV3-NL1*01 368 sequences assigned 63 (17.1%) exact matches, in which: 1998 sequences assigned 542 (27.1%) exact matches, in which: 33 sequences assigned No exact matches. 57 unique CDR3 492 unique CDR3 5 unique J 6 unique J 60 3 400 Count 2 200 20 0 5 10 15 20 0 10 15 20 5 0 10 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-73*01_02 IGHV3-43D*04 IGHV4-4*07 709 sequences assigned 79 (11.1%) exact matches, in which: 278 sequences assigned 15924 sequences assigned 766 (4.8%) exact matches, in which: 646 unique CDR3 49 (17.6%) exact matches, in which: 46 unique CDR3 76 unique CDR3 6 unique J 5 unique J 6 unique J 1250 1000 75 75 750 Count Count 50 50 500 25 25 250 0 0 0 0 10 15 20 10 15 10 15 20 0 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-64D*08 IGHV4-4*02_03 IGHV3-74*03 1113 sequences assigned 9510 sequences assigned 2746 sequences assigned 398 (35.8%) exact matches, in which: 697 (7.3%) exact matches, in which: No exact matches. 357 unique CDR3 573 unique CDR3 6 unique J 6 unique J 400 150 1000 300 750 100 Count 200 500 50 100 250 0 0 10 15 20 10 20 5 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**





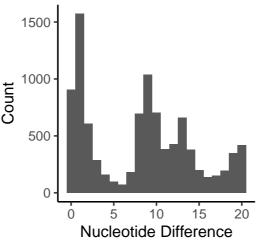
IGHV5-51*04

645 sequences assigned 19 (2.9%) exact matches, in which: 19 unique CDR3



IGHV6-1*01_02

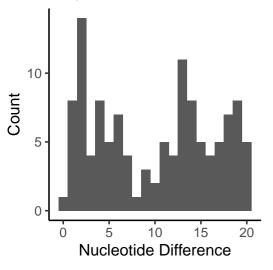
11799 sequences assigned 908 (7.7%) exact matches, in which: 724 unique CDR3 6 unique J



IGHV5-51*06

152 sequences assigned 1 (0.7%) exact matches, in which: 1 unique CDR3

1 unique J



IGHV5-51*07

165 sequences assigned 12 (7.3%) exact matches, in which: 12 unique CDR3 4 unique J

15 Count 5 0 0 10 15 20

Nucleotide Difference



