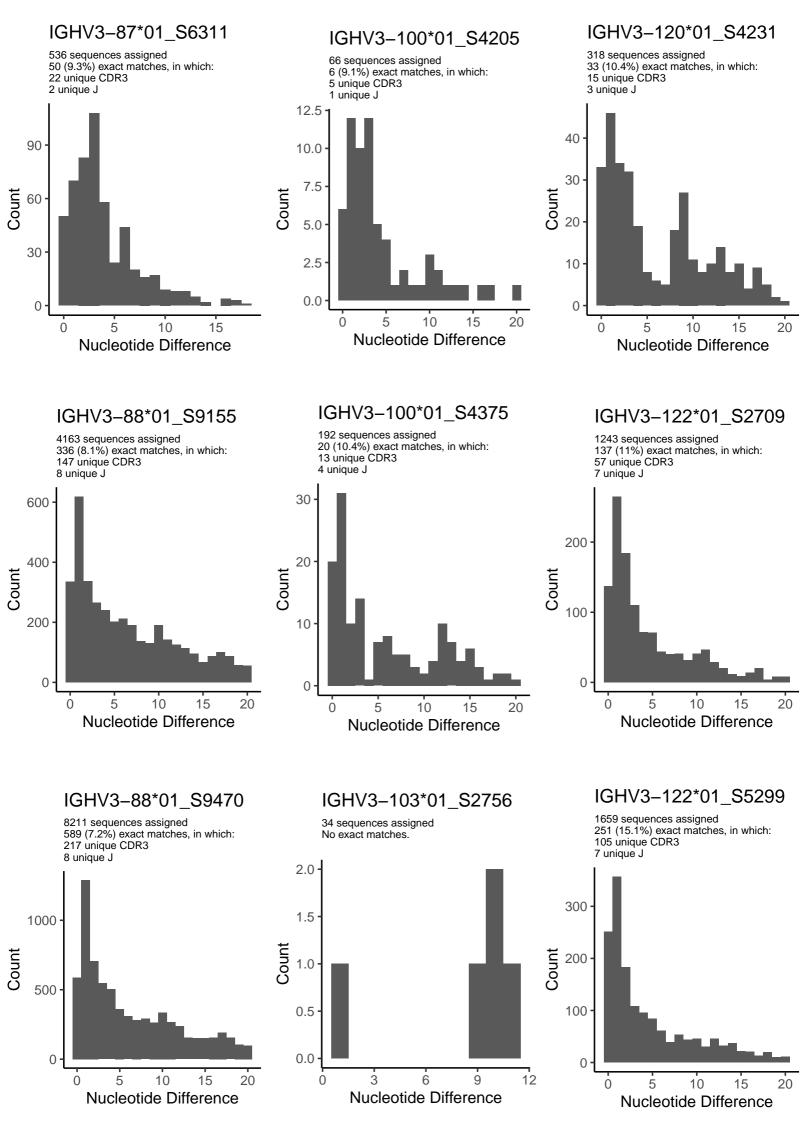
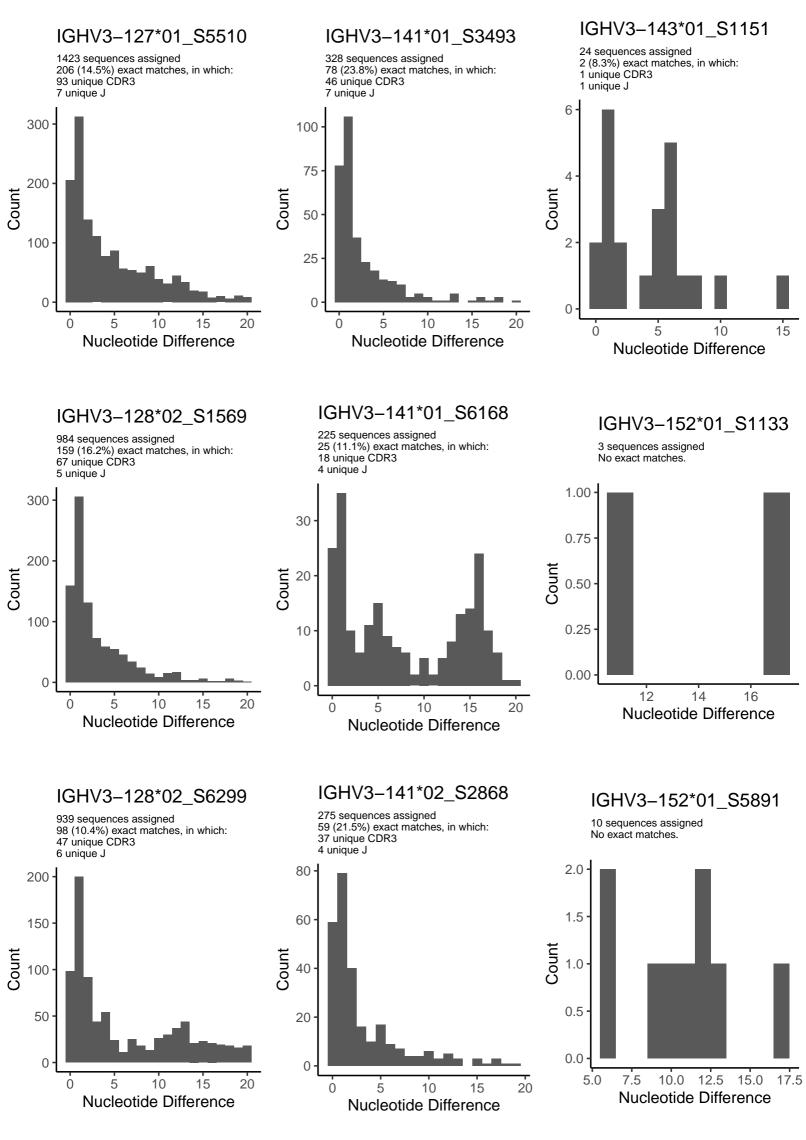
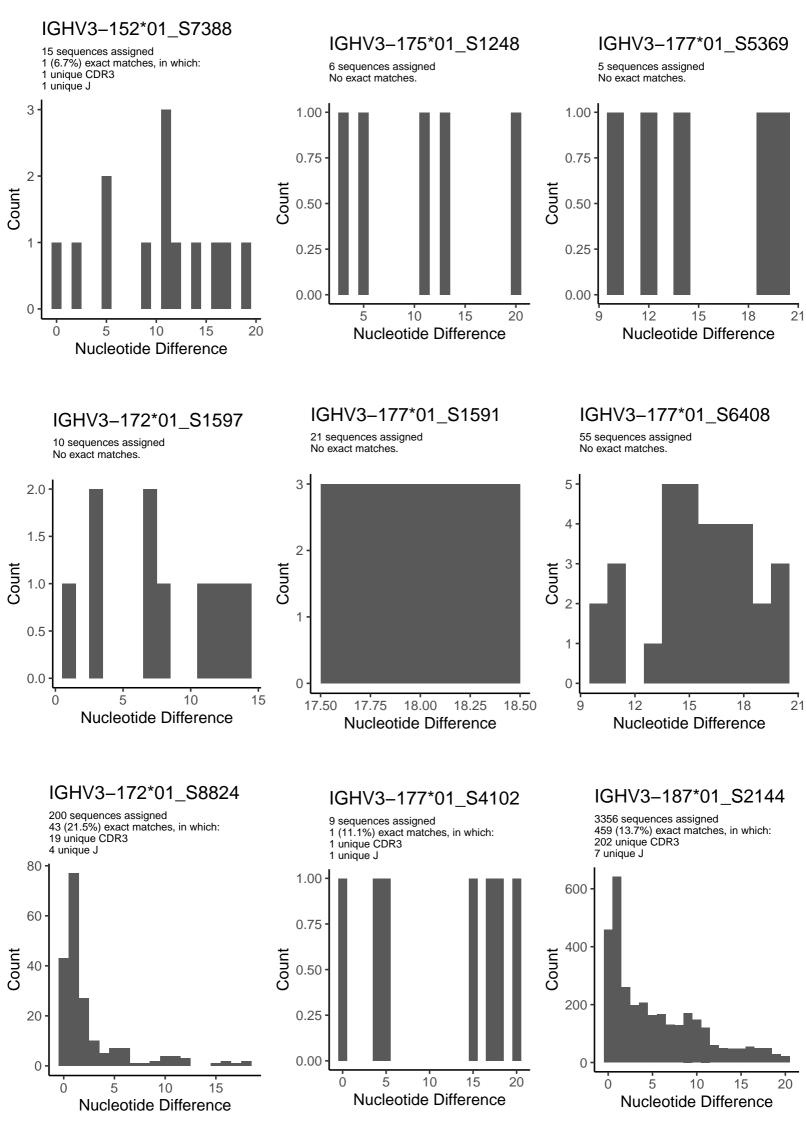
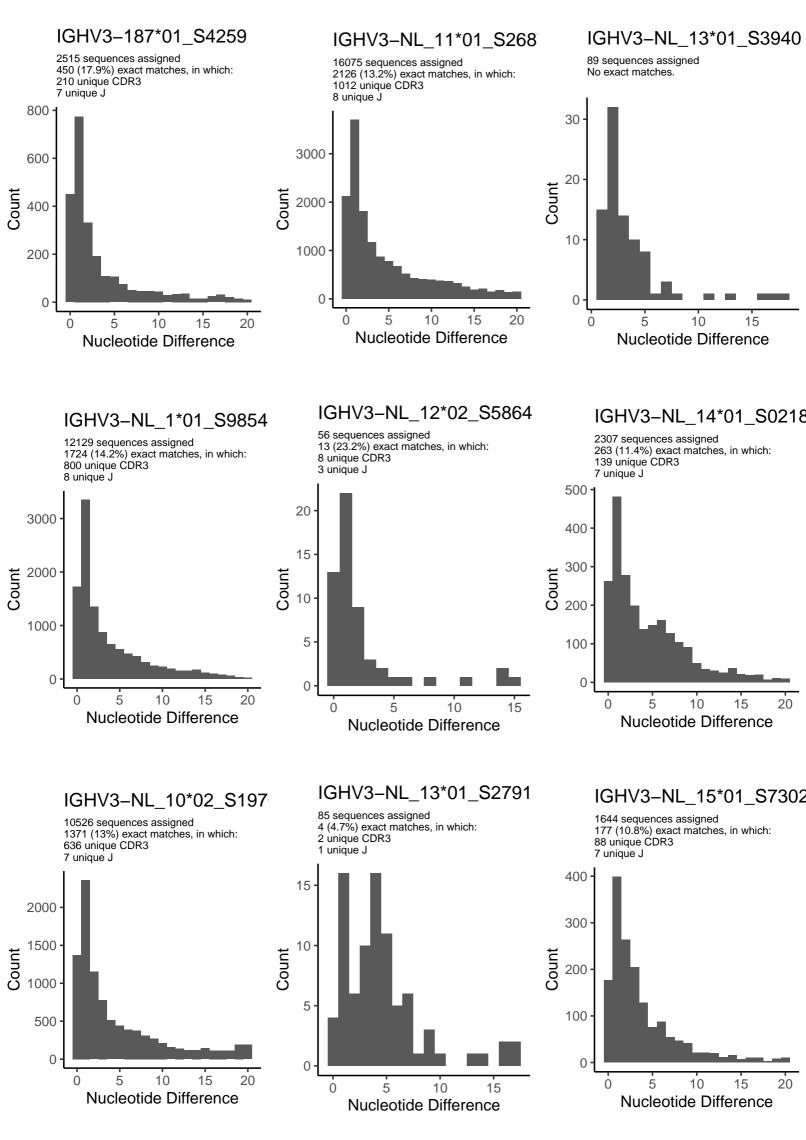


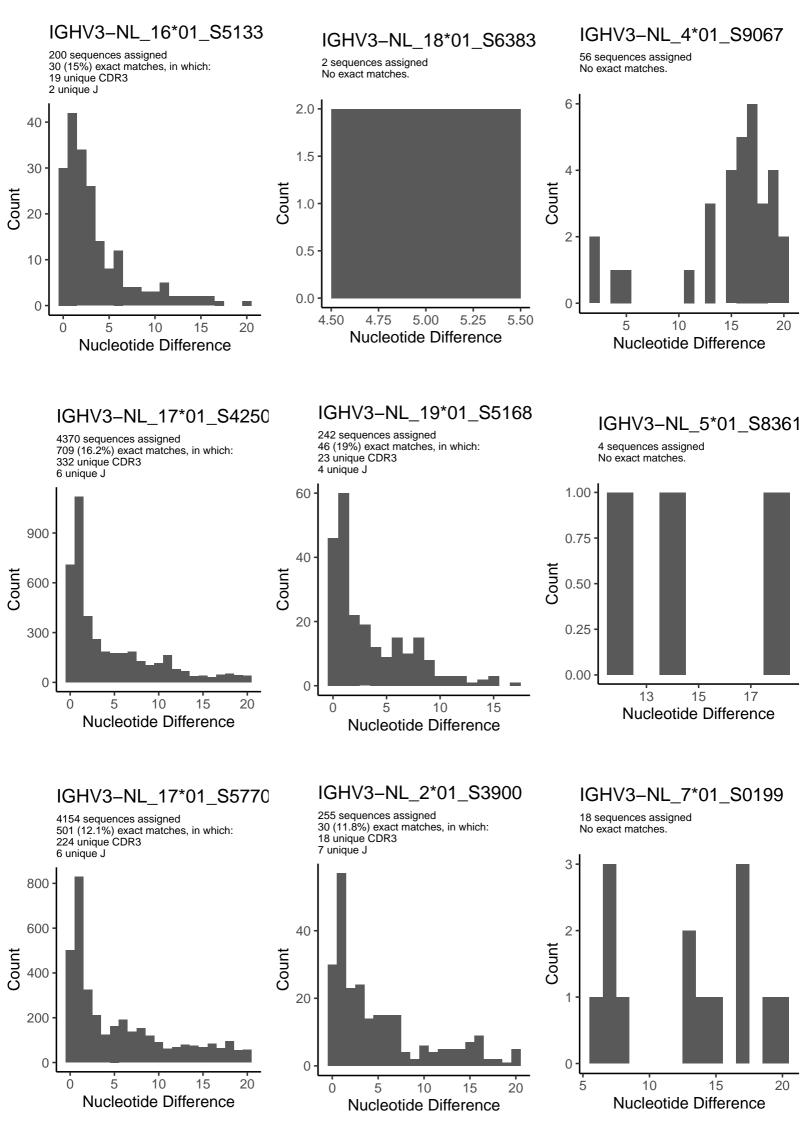
## IGHV3-73\*01\_S6942 IGHV3-50\*01\_S1879 IGHV3-76\*02\_S4190 621 sequences assigned 7537 sequences assigned 1138 (15.1%) exact matches, in which: 6496 sequences assigned 67 (10.8%) exact matches, in which: 947 (14.6%) exact matches, in which: 37 unique CDR3 7 unique J 456 unique CDR3 604 unique CDR3 8 unique J 8 unique J 1500 60 1500 1000 40 Count Count 1000 Count 500 20 500 0 0 0 0 10 15 20 10 0 10 15 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-73\*02\_S5005 IGHV3-52\*02\_S4550 IGHV3-76\*02\_S4190\_A2 138 sequences assigned 1946 sequences assigned 335 (17.2%) exact matches, in which: 555 sequences assigned 95 (17.1%) exact matches, in which: 54 (39.1%) exact matches, in which: 31 unique CDR3 40 unique CDR3 242 unique CDR3 6 unique J 4 unique J 8 unique J 150 400 40 300 100 Count 200 20 50 100 0 0 0 10 15 20 10 15 20 0 5 0 5 10 0 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-83\*01 S5932 IGHV3-76\*01\_S4285 IGHV3-53\*01\_S7463 110 sequences assigned 4400 sequences assigned 7036 sequences assigned 18 (16.4%) exact matches, in which: 438 (10%) exact matches, in which: 182 (2.6%) exact matches, in which: 13 unique CDR3 228 unique CDR3 82 unique CDR3 3 unique J 7 unique J 6 unique J 800 20 1500 600 15 1000 400 10 500 200 5 0 0 0 10 20 5 10 15 20 0 20 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

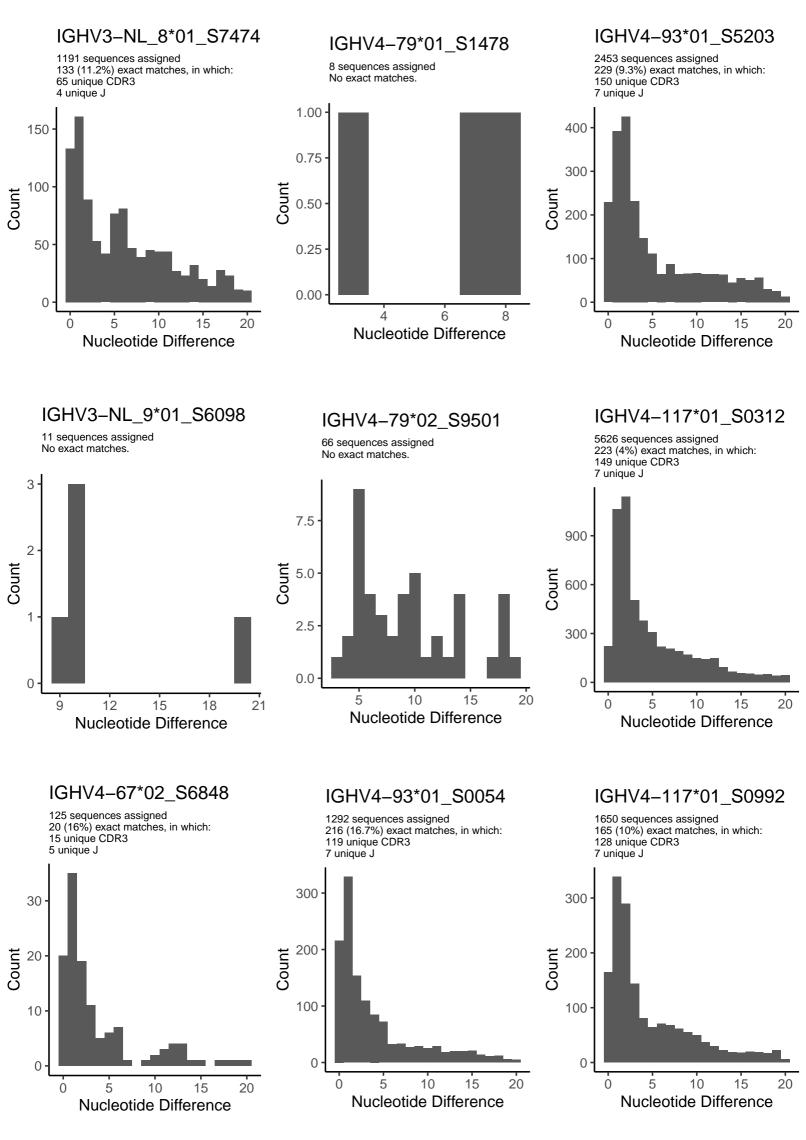


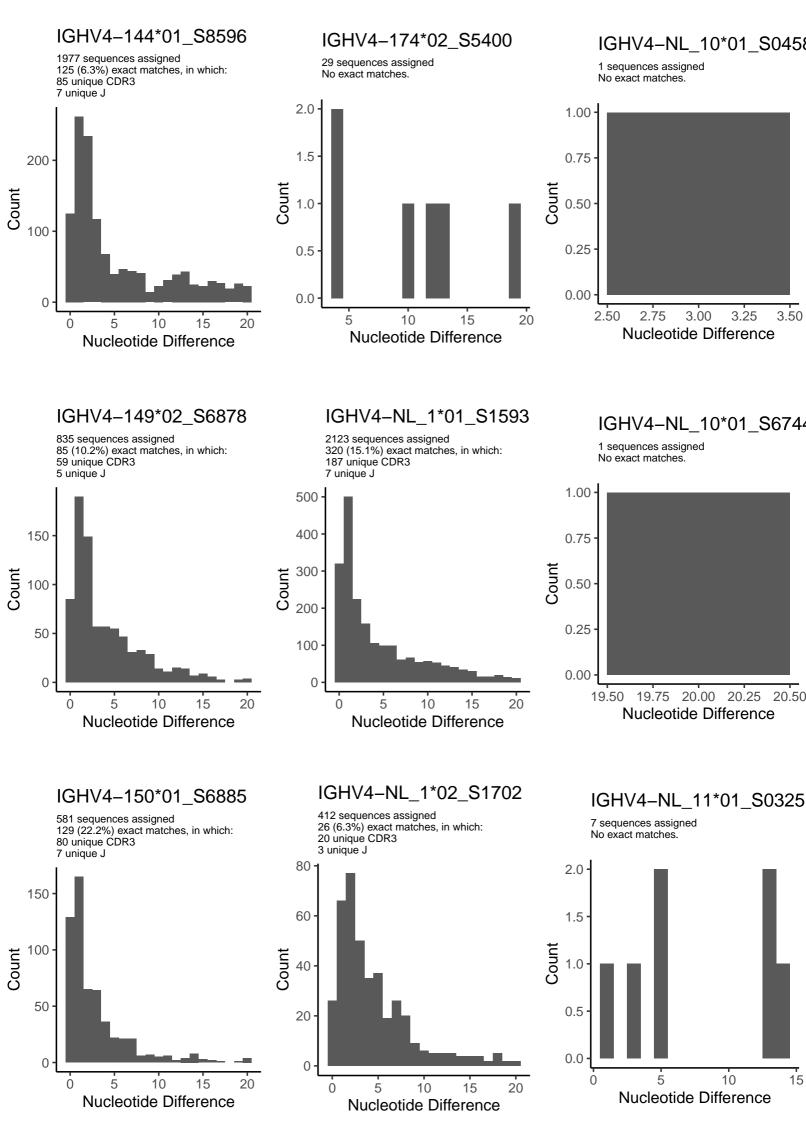


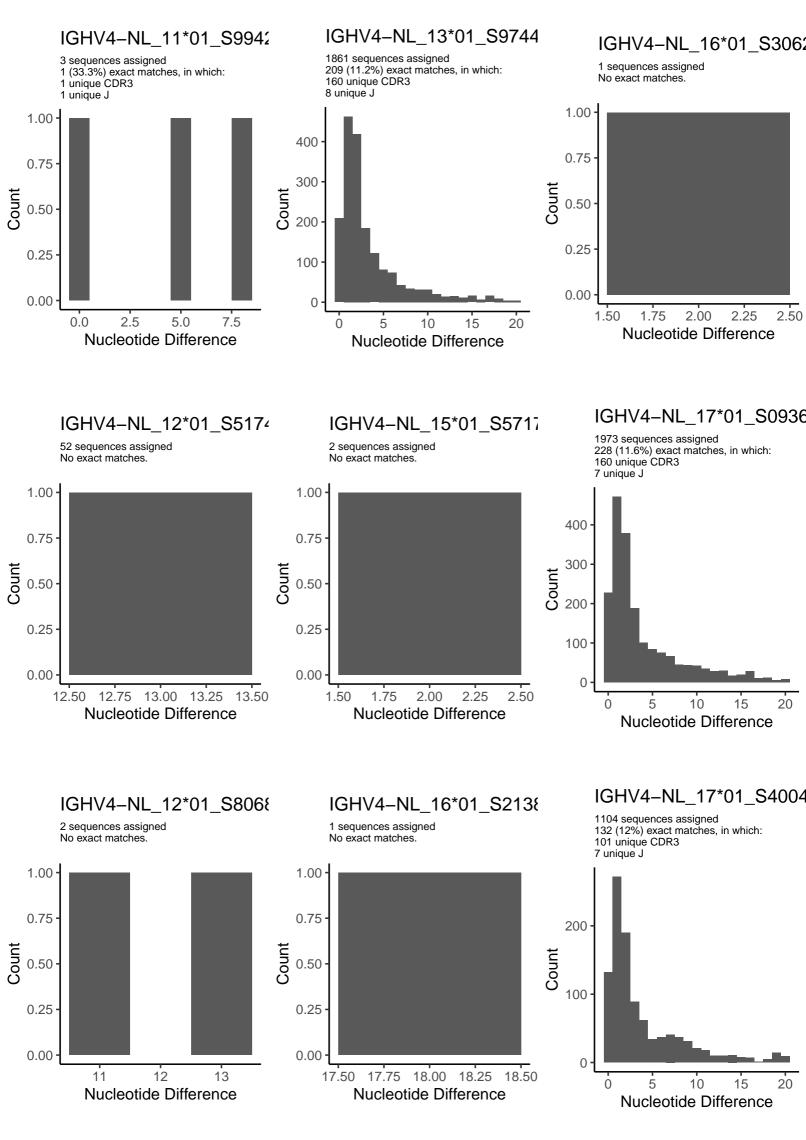


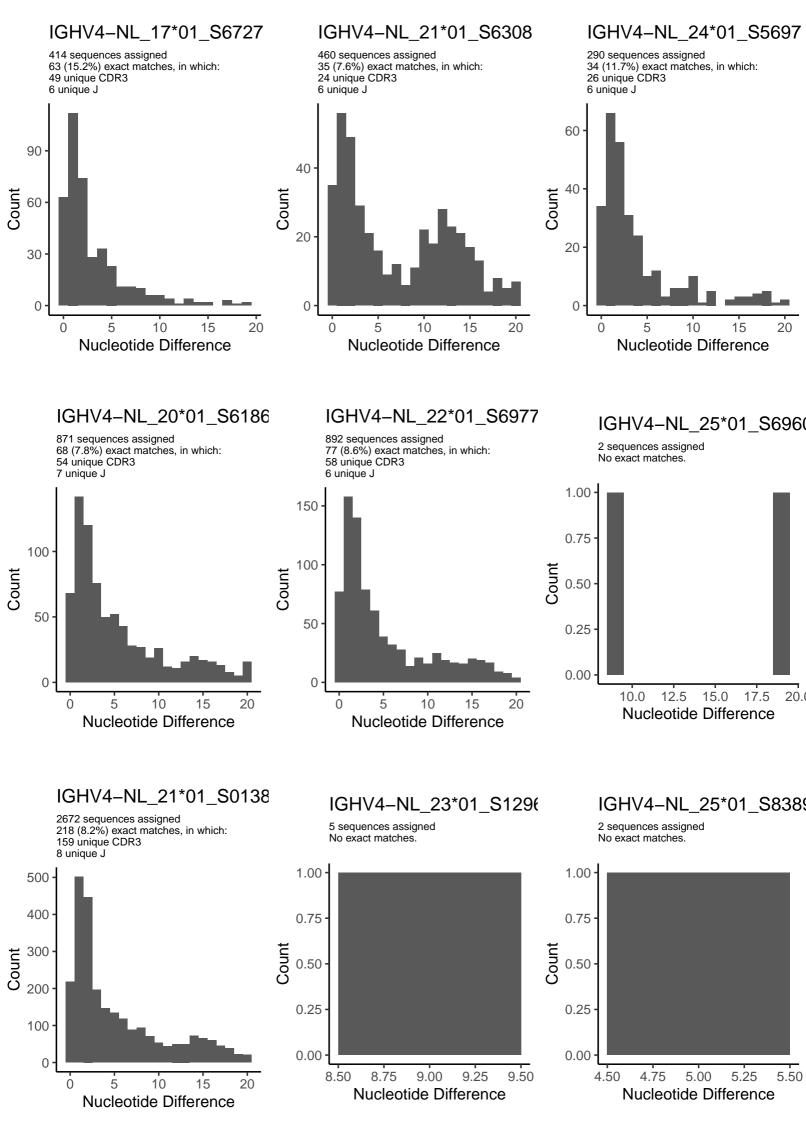


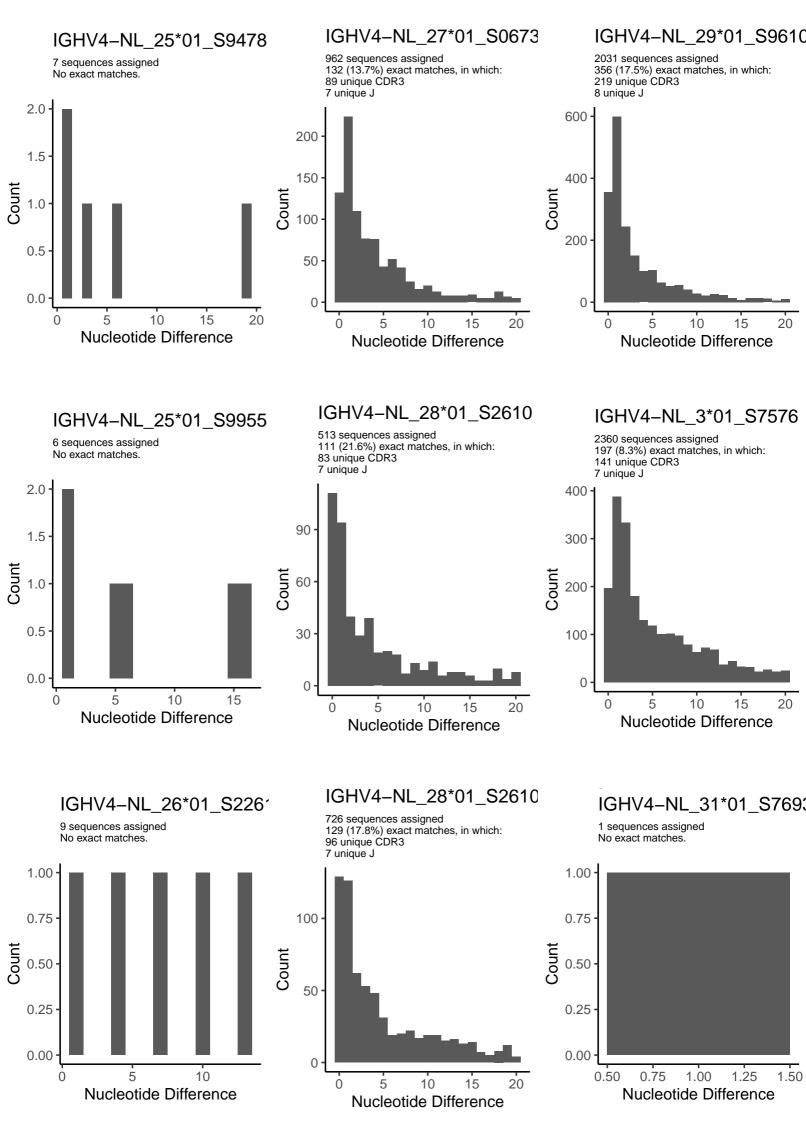


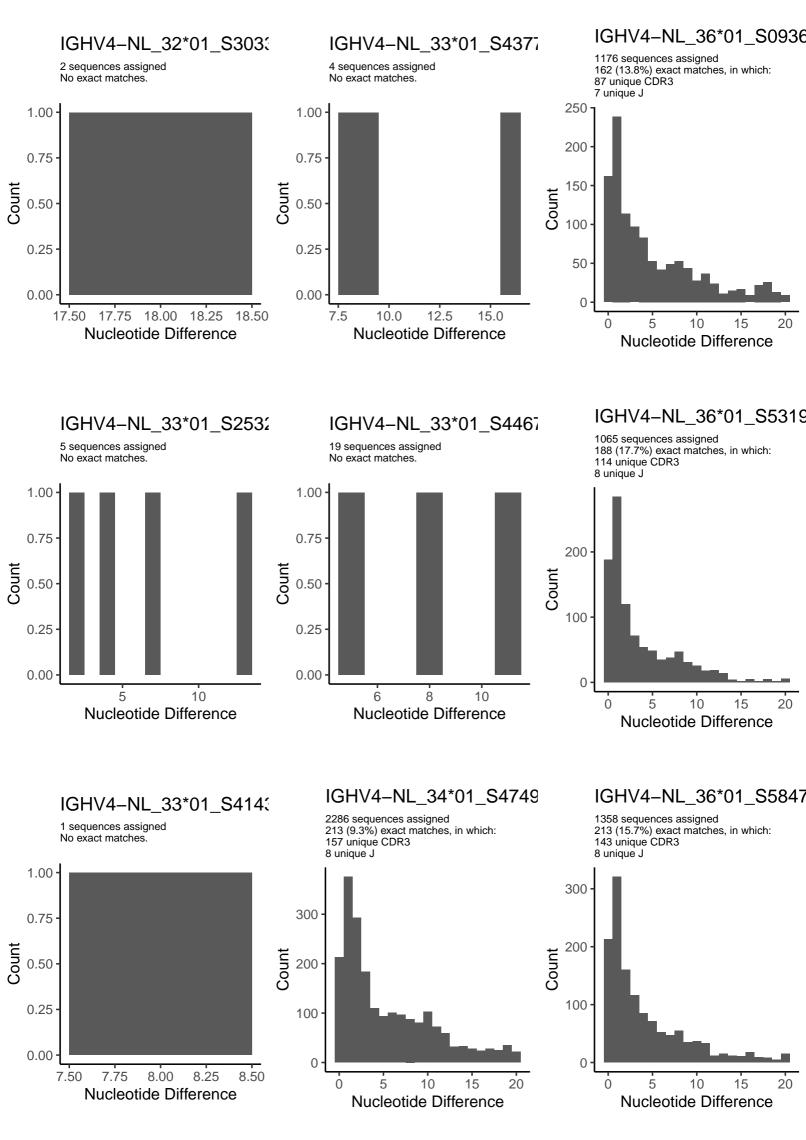


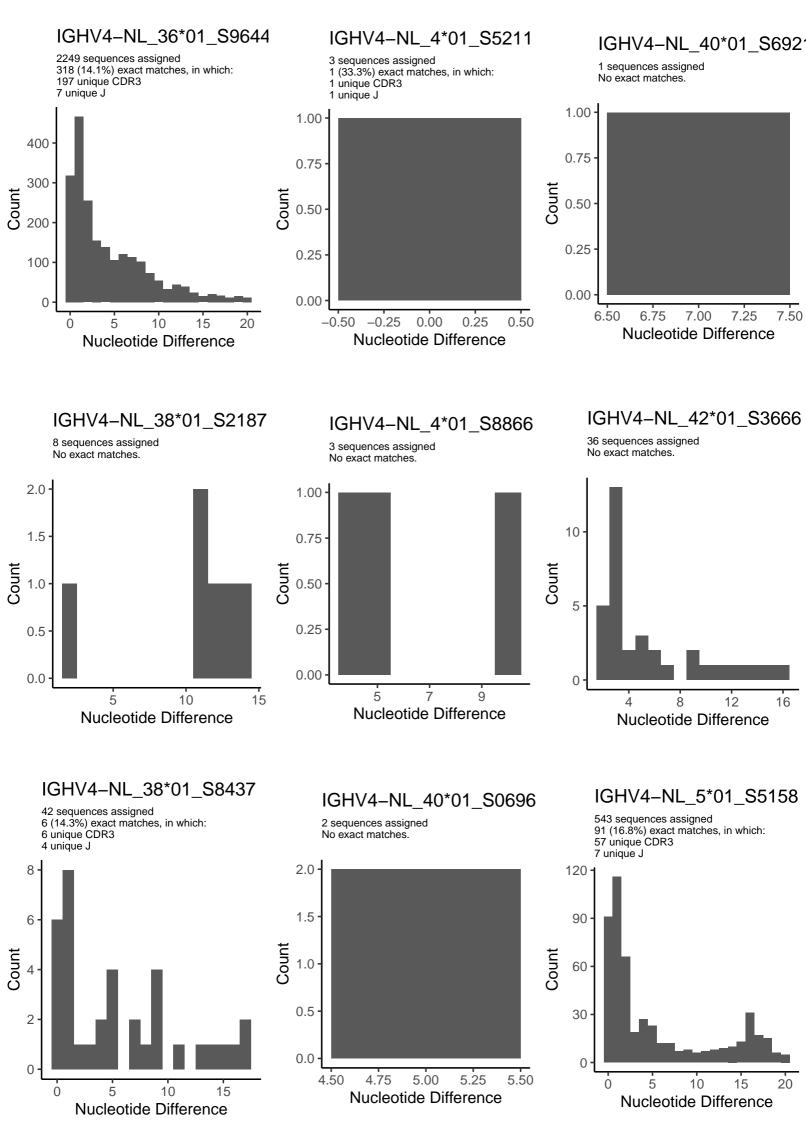












## IGHV4-NL\_9\*01\_S1435 IGHV5-157\*01\_S5960 4031 sequences assigned 532 (13.2%) exact matches, in which: 954 sequences assigned 170 (17.8%) exact matches, in which: 211 unique CDR3 98 unique CDR3 7 unique J 6 unique J 800 200 600 Count 400 100 200 0 10 15 20 5 10 15 20 0 Nucleotide Difference Nucleotide Difference IGHV5-15\*01\_S4790 IGHV5-157\*01\_S6479 34 sequences assigned 4 (11.8%) exact matches, in which: 4 unique CDR3 6818 sequences assigned 1202 (17.6%) exact matches, in which: 455 unique CDR3 3 unique J 8 unique J 5 2000 4 1500 3 Count 1000 500 0 0 10 15 10 15 0 5 **Nucleotide Difference** Nucleotide Difference IGHV7-86\*01\_S9209 IGHV5-15\*01\_S6979 784 sequences assigned 3637 sequences assigned 686 (18.9%) exact matches, in which: 143 (18.2%) exact matches, in which: 51 unique CDR3 255 unique CDR3 6 unique J 7 unique J 1000 150 750 100 Count 500 50 250 0 0

10

Nucleotide Difference

20

IGHV7-135\*01\_S9086

Nucleotide Difference

48 (28.6%) exact matches, in which:

168 sequences assigned

21 unique CDR3

6 unique J

40

30

20

10

0

20

15

10

**Nucleotide Difference** 

