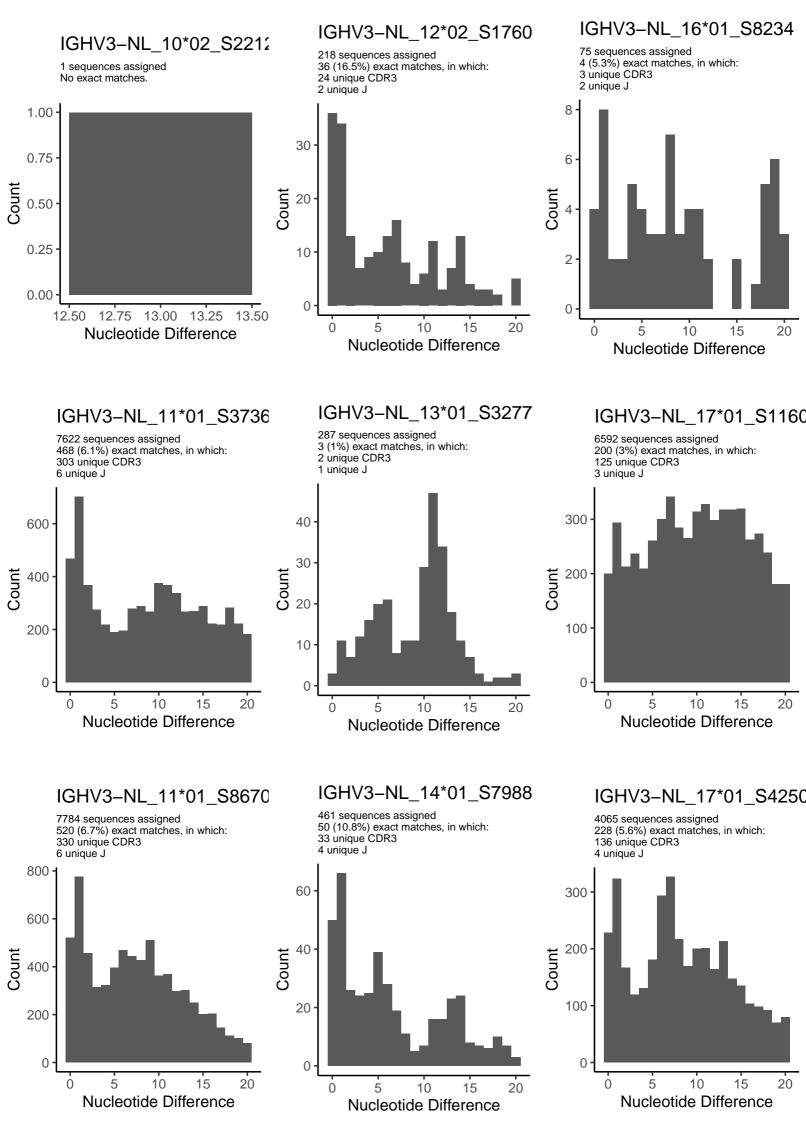
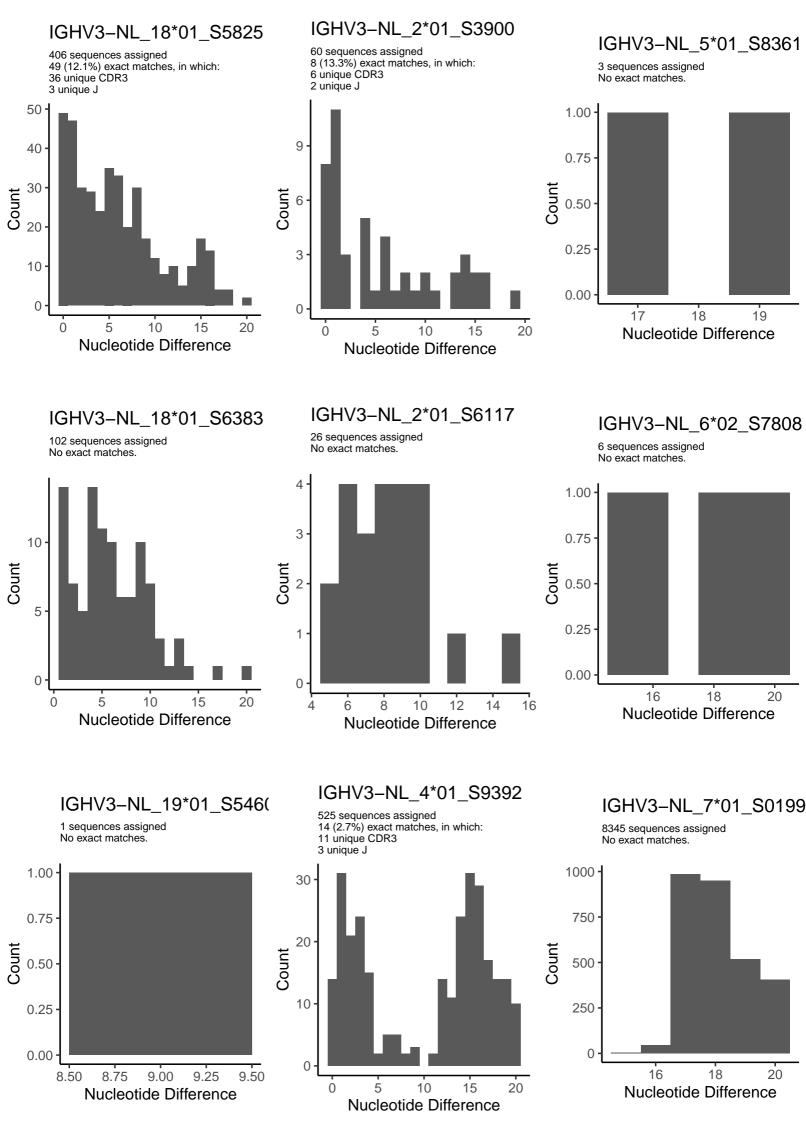
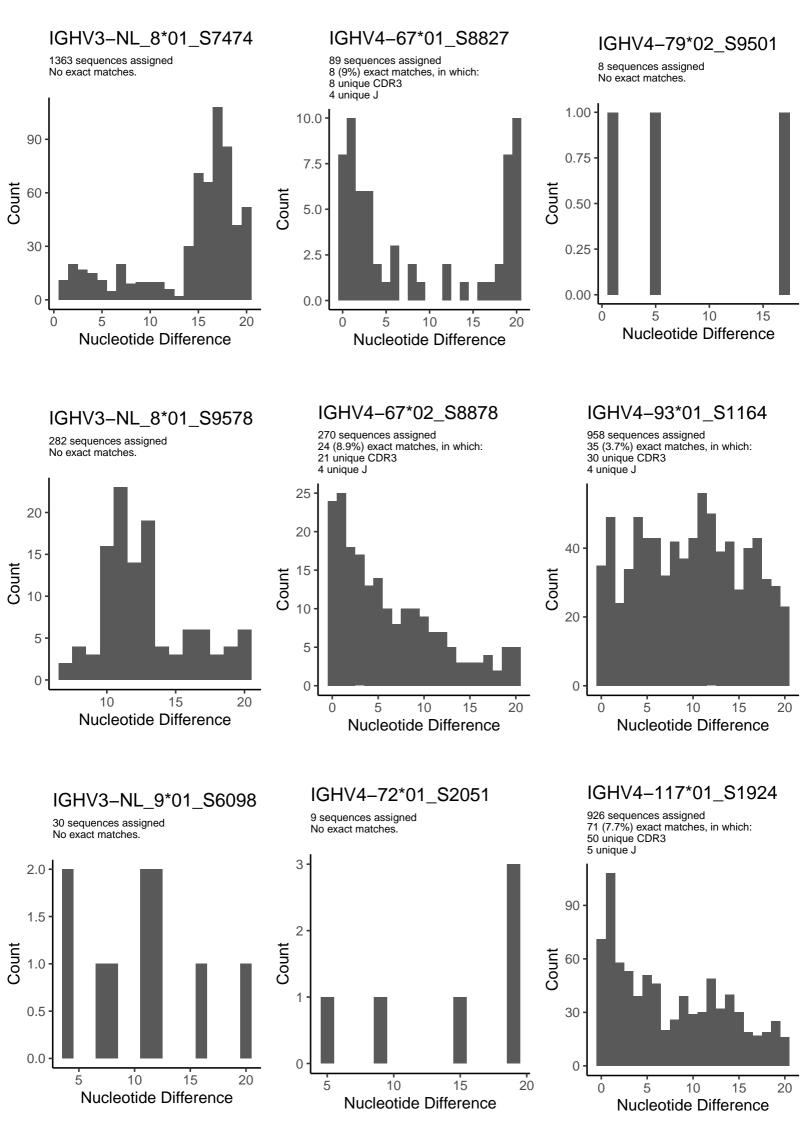
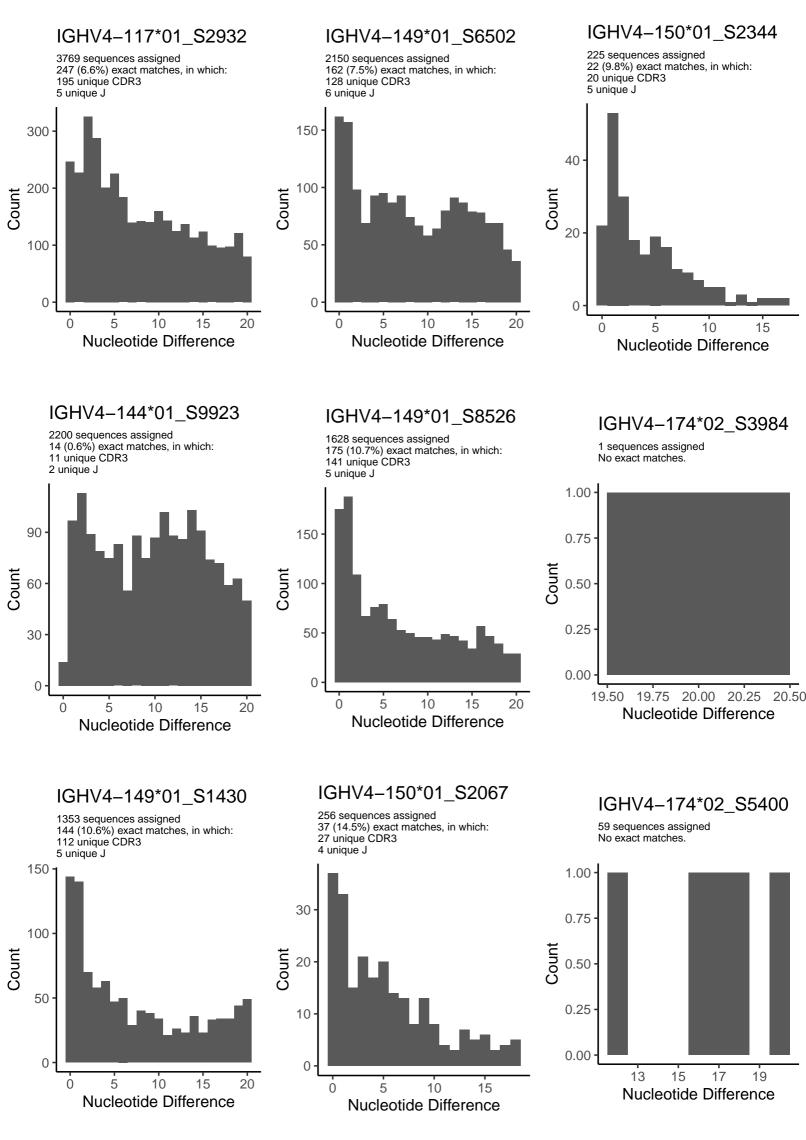


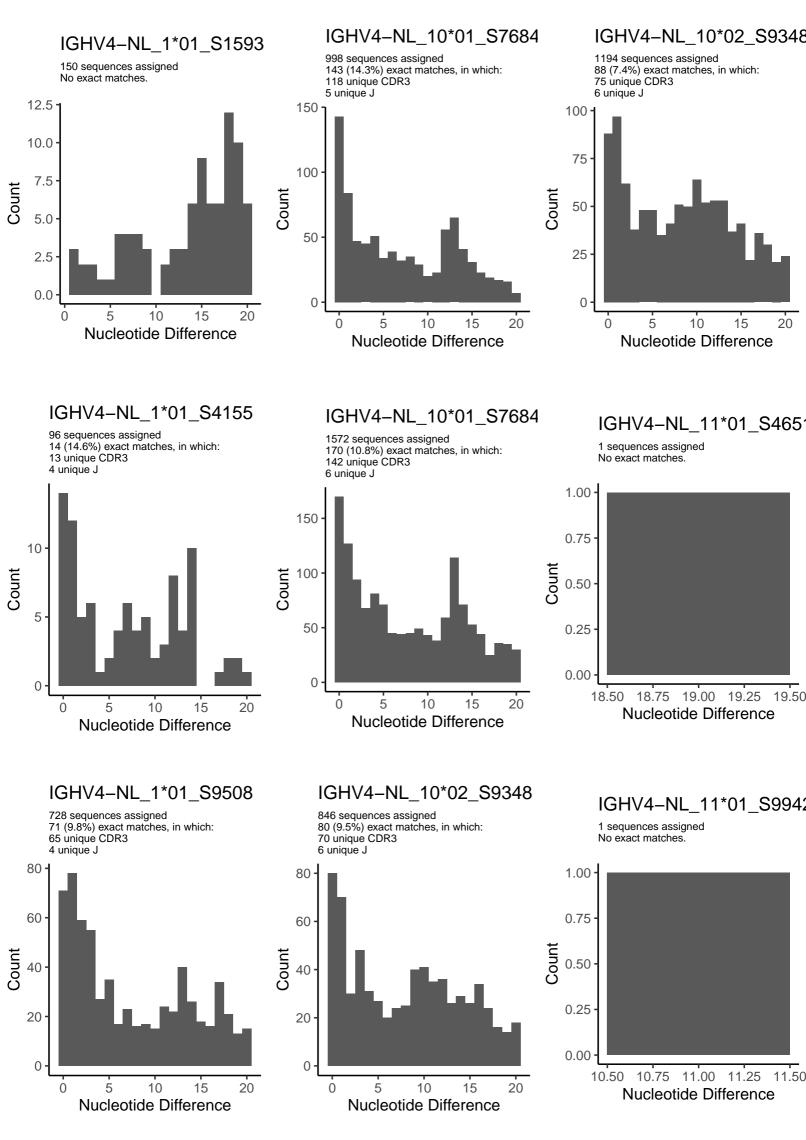
## IGHV3-177\*01\_S4102 IGHV3-187\*01\_S4259 IGHV3-128\*02\_S0204 391 sequences assigned 35 (9%) exact matches, in which: 2899 sequences assigned 1695 sequences assigned 81 (2.8%) exact matches, in which: 41 unique CDR3 160 (9.4%) exact matches, in which: 23 unique CDR3 103 unique CDR3 3 unique J 4 unique J 5 unique J 125 -50 200 100 40 150 75 30 Count 100 50 20 50 25 10 0 0 0 5 10 15 20 5 10 15 20 10 5 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-177\*01 S8387 IGHV3-141\*02 S6589 IGHV3-187\*02 S8458 418 sequences assigned 32 (7.7%) exact matches, in which: 12 sequences assigned 1522 sequences assigned No exact matches 112 (7.4%) exact matches, in which: 20 unique CDR3 65 unique CDR3 3 unique J 3 unique J 3 40 150 30 Count 100 Count Count 20 50 10 0 0 10 20 12 13 14 15 0 5 15 11 15 20 0 5 10 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-172\*01\_S8824 IGHV3-177\*01\_S8409 IGHV3-NL\_1\*01\_S9854 497 sequences assigned 656 sequences assigned 3448 sequences assigned 27 (5.4%) exact matches, in which: 66 (10.1%) exact matches, in which: 279 (8.1%) exact matches, in which: 16 unique CDR3 46 unique CDR3 165 unique CDR3 2 unique J 4 unique J 6 unique J 80 60 300 60 Count Count 40 200 40 100 20 20 0 0 0 10 15 20 0 10 15 20 0 10 15 20 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

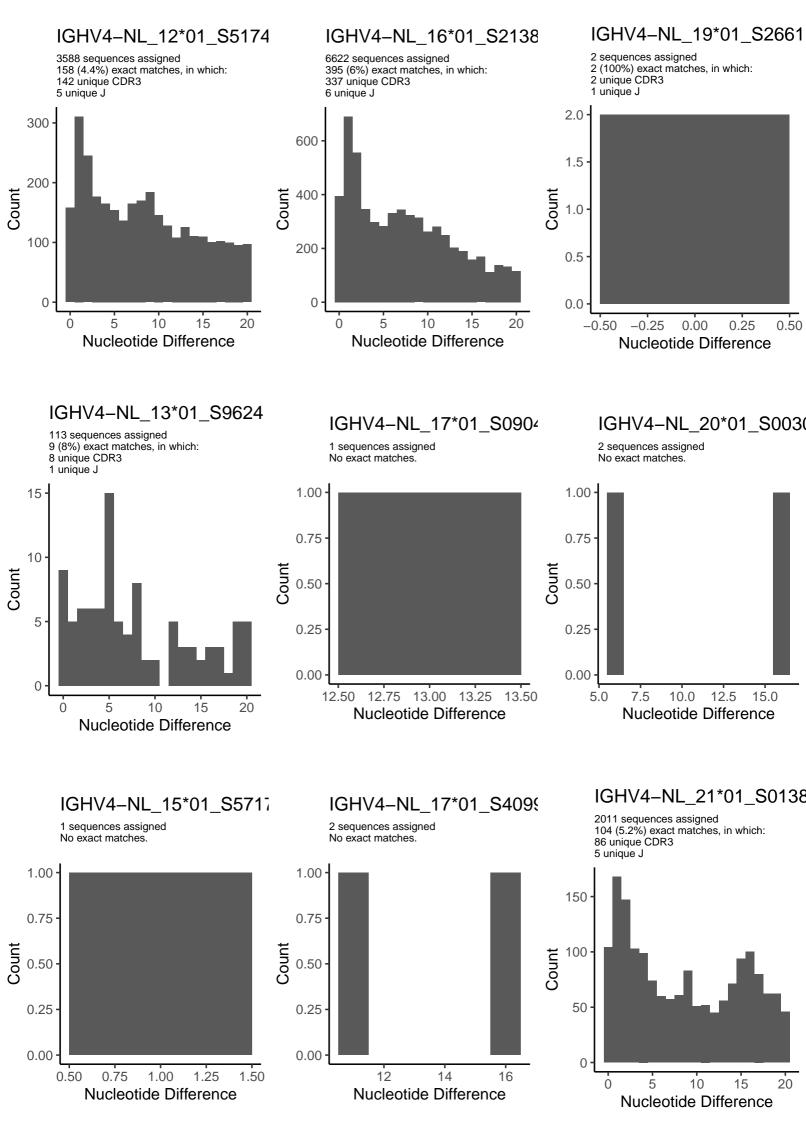


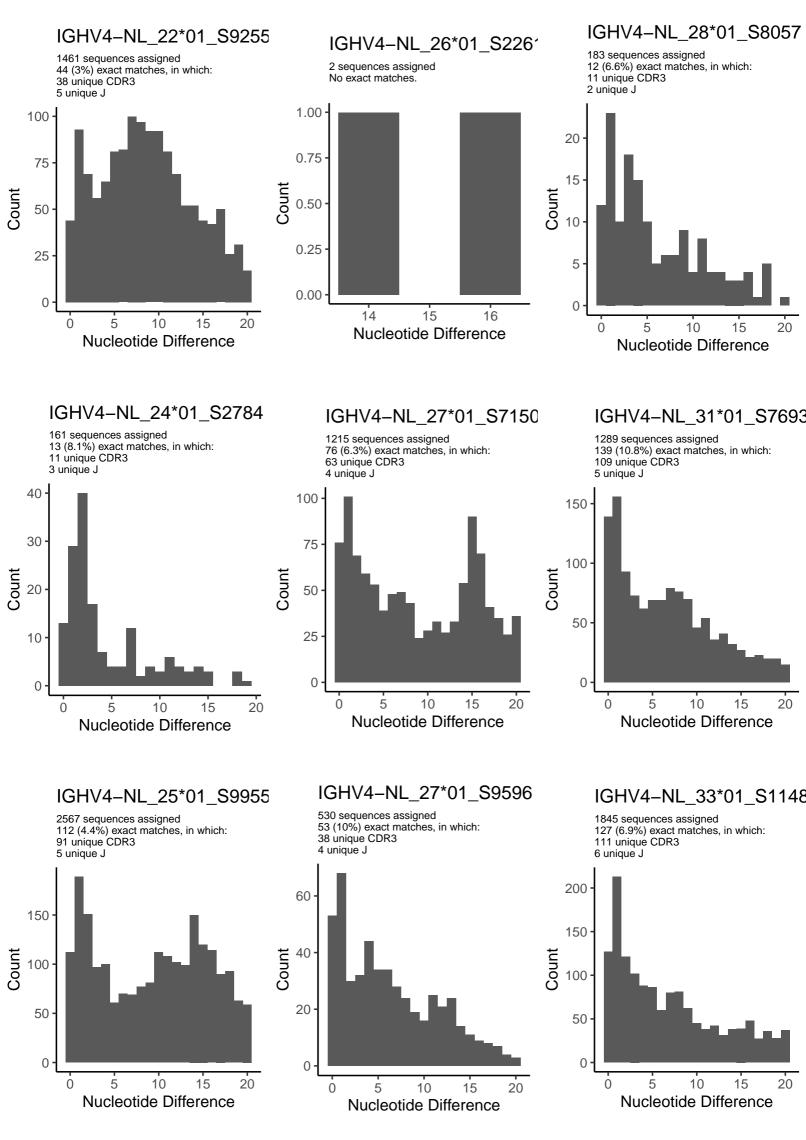


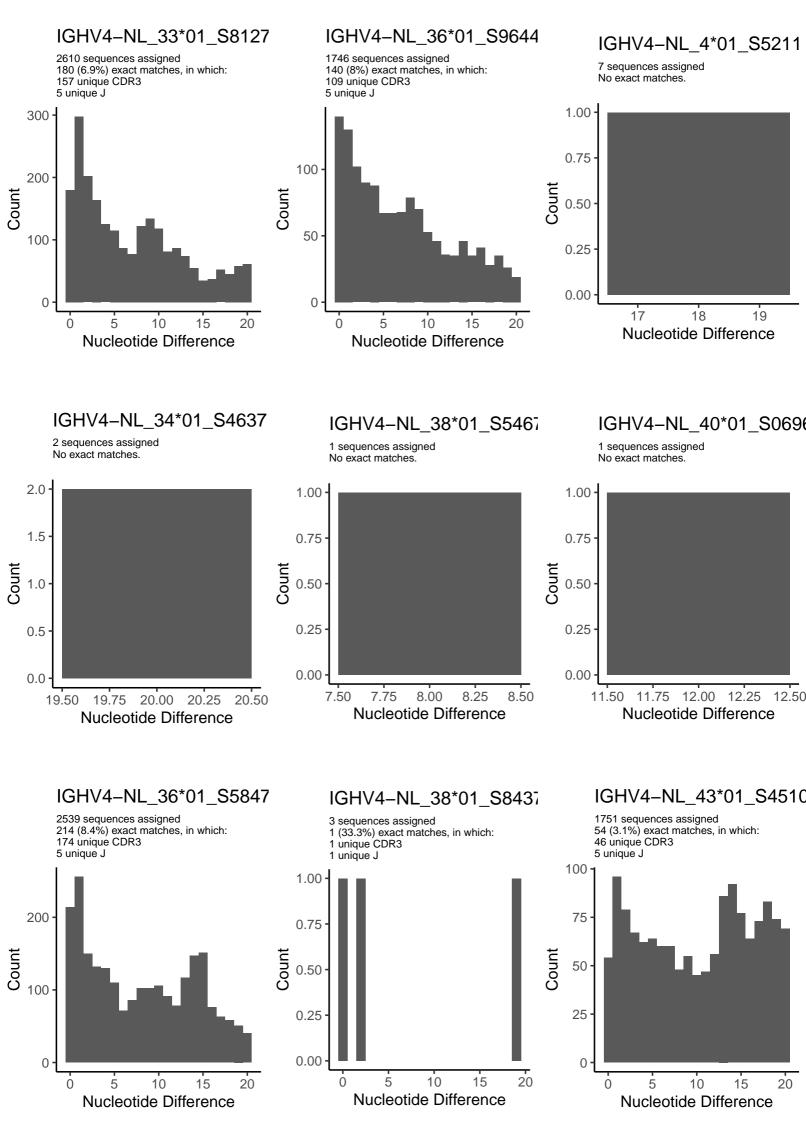












## IGHV4-NL\_5\*01\_S5158 IGHV5-157\*02\_S5108 1655 sequences assigned 5187 sequences assigned 65 (3.9%) exact matches, in which: 55 unique CDR3 279 (5.4%) exact matches, in which: 135 ùniqué CDR3 6 unique J 6 unique J 100 -500 400 75 300 Count 50 200 25 100 0 0 5 10 15 20 5 10 15 20 0 Nucleotide Difference Nucleotide Difference IGHV7-86\*01\_S6208 IGHV4-NL\_9\*01\_S4990 82 sequences assigned 17 (20.7%) exact matches, in which: 3 sequences assigned No exact matches. 9 unique CDR3 3 unique J 1.00 -15 0.75 Count 0.50 10 0.25 5 0.00 0 18.5 19.0 19.5 20.0 20.5 10 15 0 20 Nucleotide Difference Nucleotide Difference IGHV7-86\*01\_S8420 IGHV5-15\*01\_S8661 288 sequences assigned 3338 sequences assigned 47 (16.3%) exact matches, in which: 261 (7.8%) exact matches, in which: 31 unique CDR3 157 unique CDR3 3 unique J 6 unique J 400 300 40 Count Count 200 20 100 0

0

0

10

Nucleotide Difference

15

20

5

10

**Nucleotide Difference** 

15

20

IGHV7-135\*02\_S1424

0.50

0.25

0.00

Nucleotide Difference

(100%) exact matches, in which:

sequences assigned

unique CDR3

1 unique J

1.00

0.75

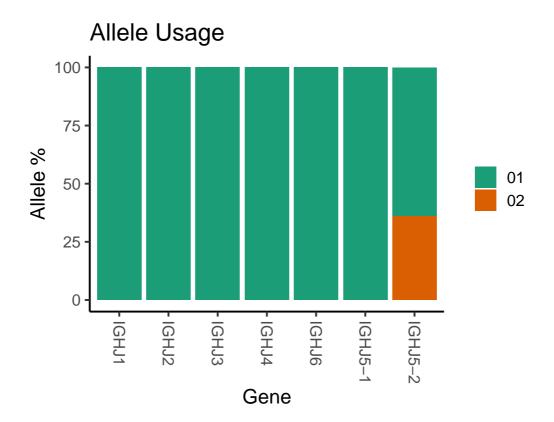
0.50

0.25

0.00

-0.50

-0.25



## Sequence Count by IGHJ5-2 allele usage

