

#### IGHV3-50\*01\_S8530 IGHV3-53\*01\_S2905 IGHV3-73\*02\_S4889 204 sequences assigned 11 (5.4%) exact matches, in which: 364 sequences assigned 396 sequences assigned 34 (9.3%) exact matches, in which: 122 (30.8%) exact matches, in which: 90 unique CDR3 19 unique CDR3 8 unique CDR3 3 unique J 4 unique J 9 unique J 125 -40 30 100 30 75 20 Count Count 20 50 10 10 25 0 0 0 5 10 0 15 10 10 0 5 15 0 5 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-52\*02\_S4550 IGHV3-53\*01\_S3647 IGHV3-76\*01\_S9591 439 sequences assigned 1366 sequences assigned 103 (7.5%) exact matches, in which: 16565 sequences assigned 1641 (9.9%) exact matches, in which: 49 (11.2%) exact matches, in which: 33 unique CDR3 78 unique CDR3 1202 unique CDR3 6 unique J 6 unique J 8 unique J 125 2000 60 100 1500 75 Count Count Count 1000 50 20 500 25 0 0 0 0 5 10 15 20 5 10 15 20 0 10 15 0 5 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-52\*02\_S6213 IGHV3-73\*01\_S7929 IGHV3-76\*02\_S4686 301 sequences assigned 302 sequences assigned 5920 sequences assigned 78 (25.9%) exact matches, in which: 99 (32.8%) exact matches, in which: 238 (4%) exact matches, in which: 55 unique CDR3 75 unique CDR3 165 unique CDR3 5 unique J 8 unique J 7 unique J 100 400 75 75 300 Count 50 50 200 25 25 100 0 0 0 10 15 20 5 10 15 20 0 10 0 5 15

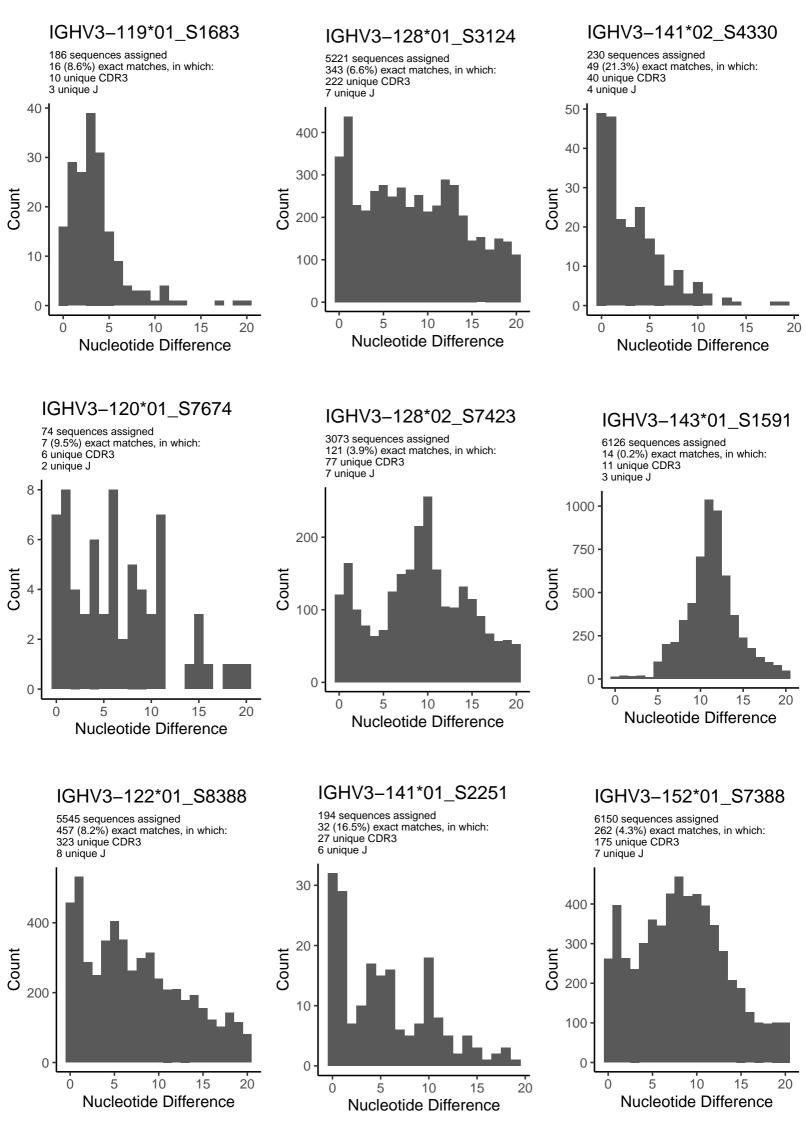
**Nucleotide Difference** 

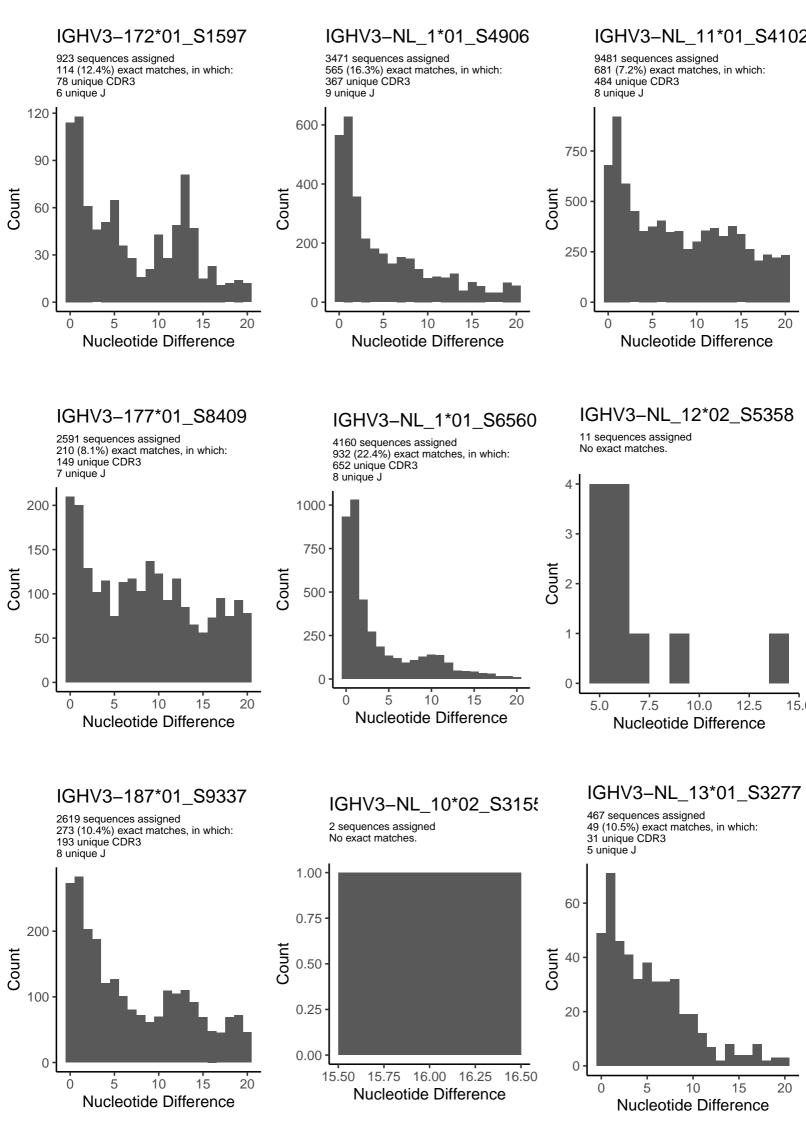
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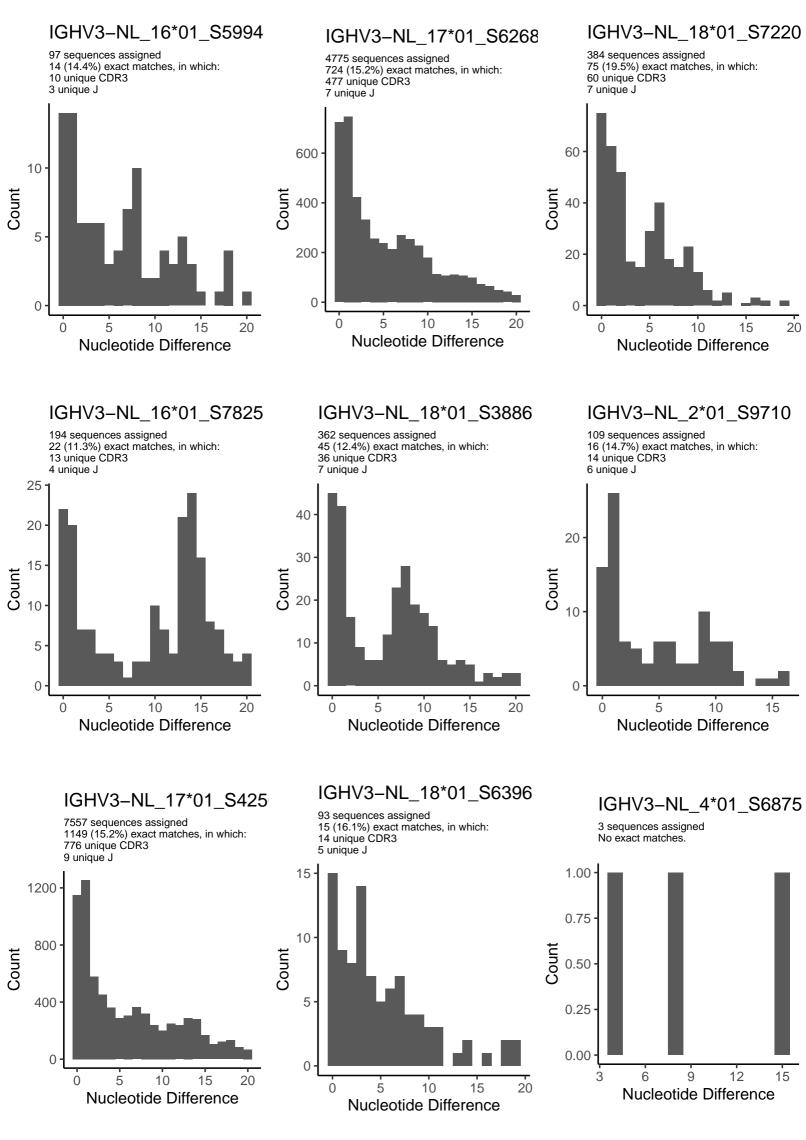
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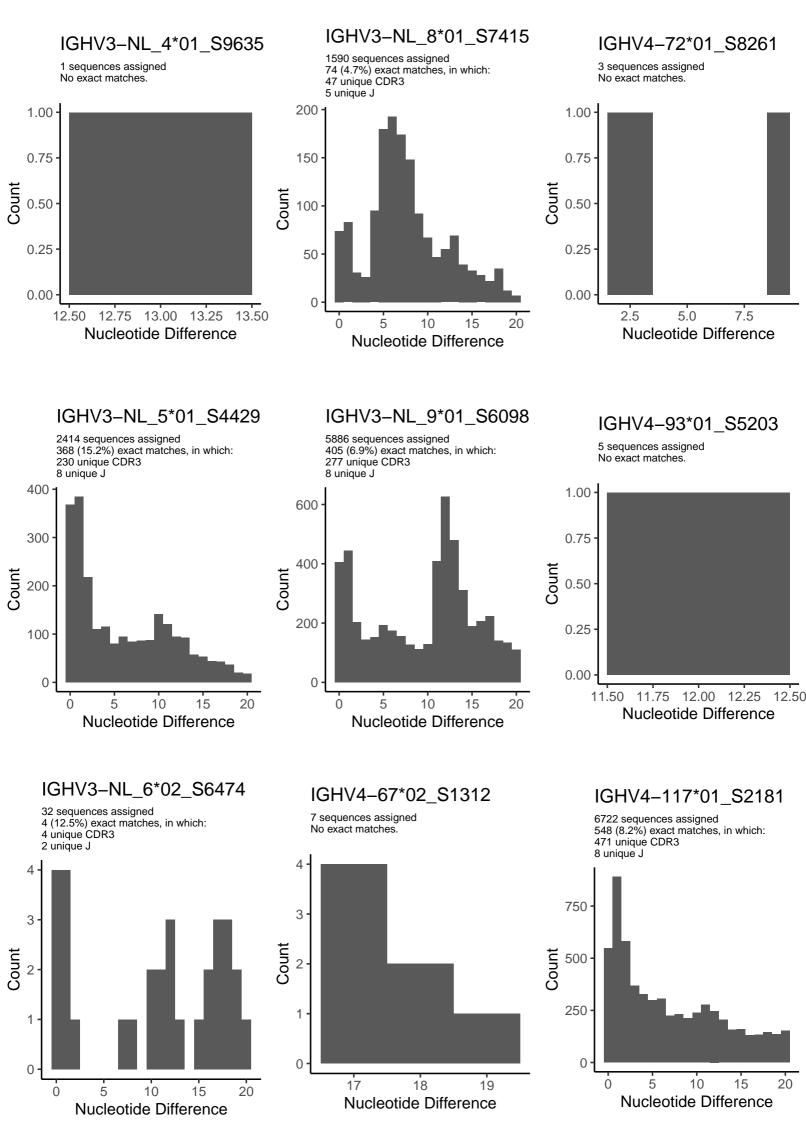
### IGHV3-83\*02\_S1476 IGHV3-88\*02\_S1054 IGHV3-103\*01\_S0760 102 sequences assigned 9874 sequences assigned 11 (10.8%) exact matches, in which: 61 sequences assigned 563 (5.7%) exact matches, in which: 9 unique CDR3 No exact matches. 386 unique CDR3 4 unique J 10 unique J 10.0 600 15 7.5 Count 400 5.0 200 2.5 5 0.0 0 0 12.5 15.0 17.5 20.0 10.0 5 10 15 20 0 10 15 20 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-87\*01\_S1401 IGHV3-94\*01\_S8766 IGHV3-103\*01\_S1165 109 sequences assigned 6606 sequences assigned 262 (4%) exact matches, in which: 9 (8.3%) exact matches, in which: 3 sequences assigned 5 unique CDR3 No exact matches. 170 unique CDR3 4 unique J 9 unique J 1.00 600 15 0.75 400 Count Count 0.50 200 0.25 5 0.00 0 17.50 17.75 18.00 18.25 18.50 10 15 20 0 5 10 15 0 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-87\*01\_S2131 IGHV3-100\*01\_S5468 IGHV3-103\*01\_S6076 188 sequences assigned 265 sequences assigned 2 sequences assigned 17 (9%) exact matches, in which: 5 (1.9%) exact matches, in which: 11 unique CDR3 5 unique CDR3 No exact matches. 4 unique J 2 unique J 30 1.00 30 0.75 20 Count 20 0.50 10 0.25 10 0.00 0 0 16.50 15.50 15.75 16.00 16.25 0 5 10 15 20 5 10 15 20 **Nucleotide Difference Nucleotide Difference**

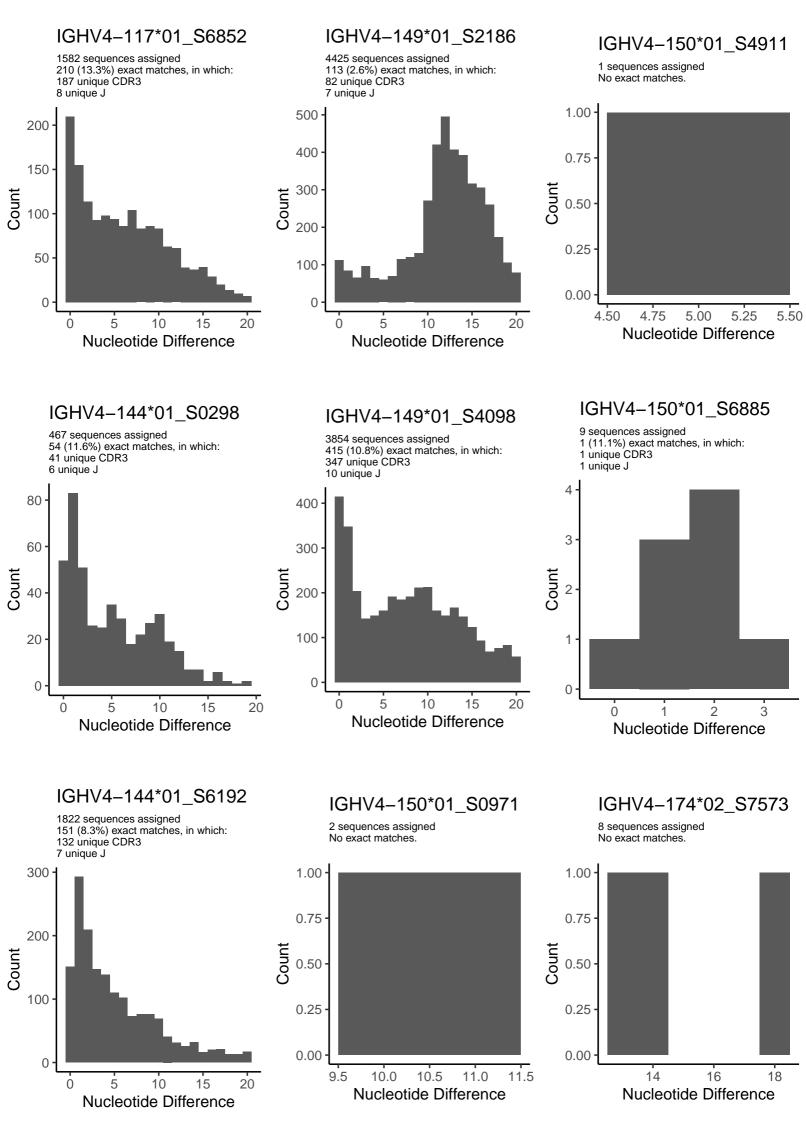
Nucleotide Difference

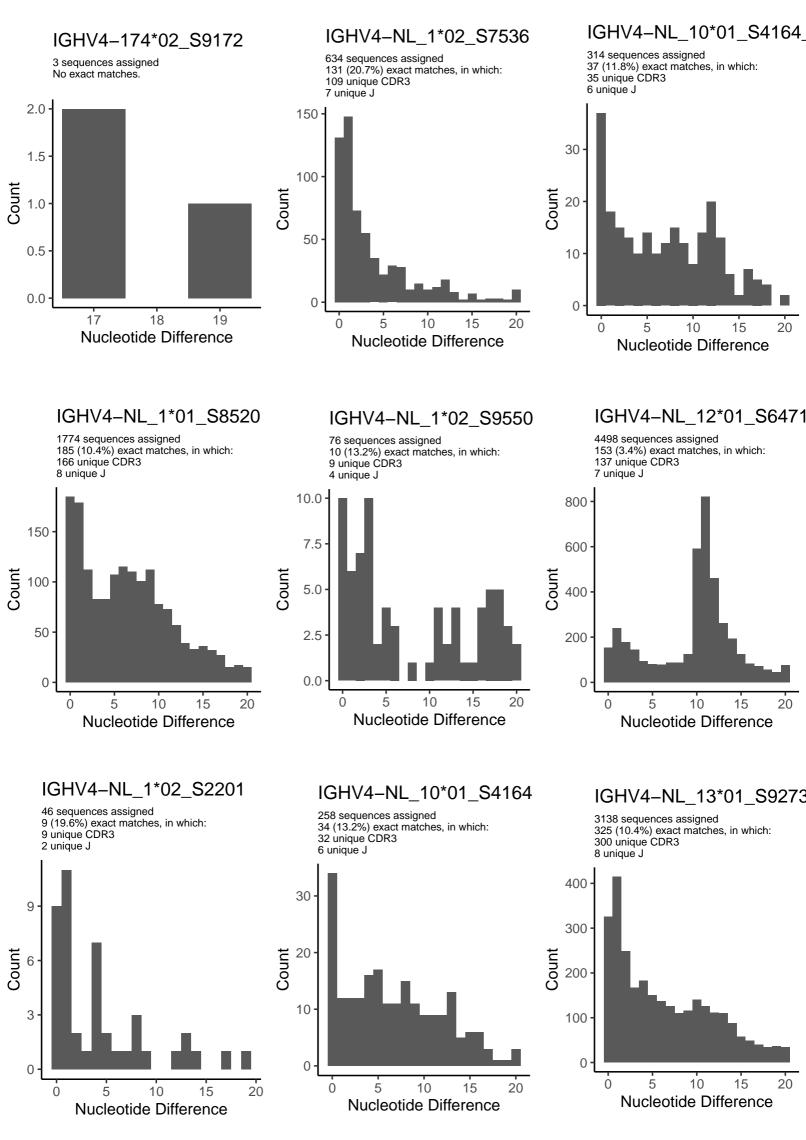


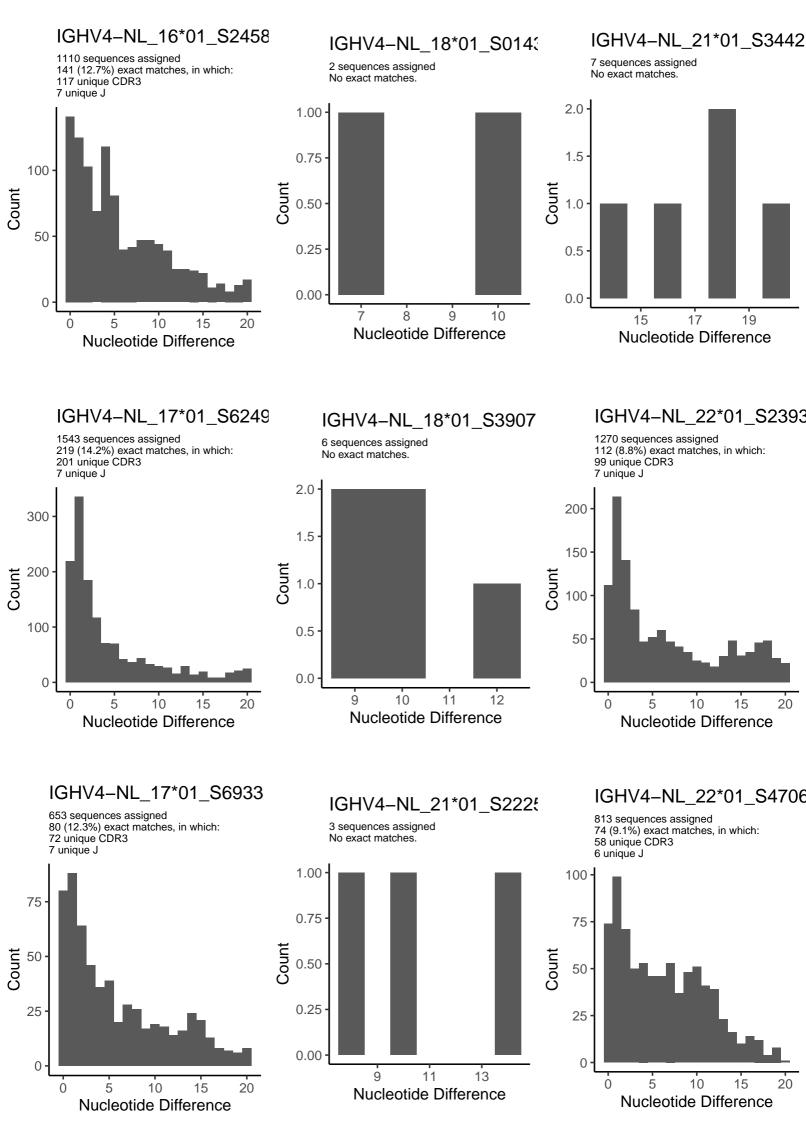


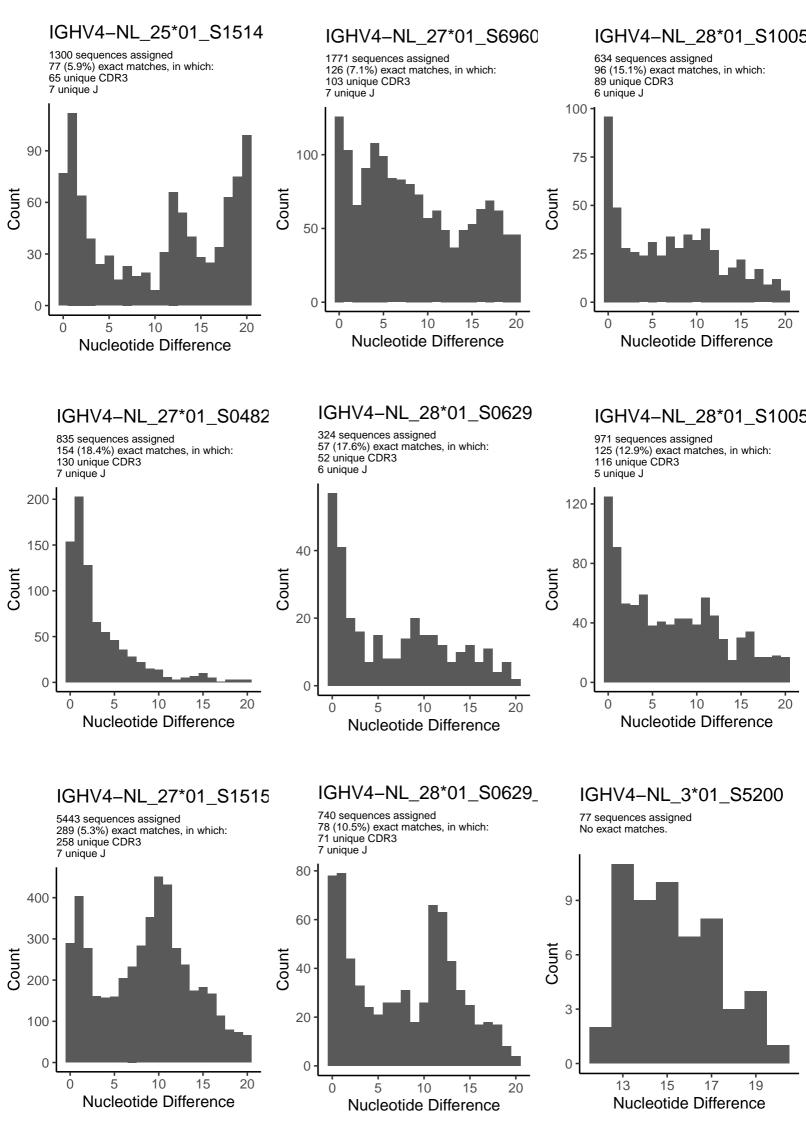


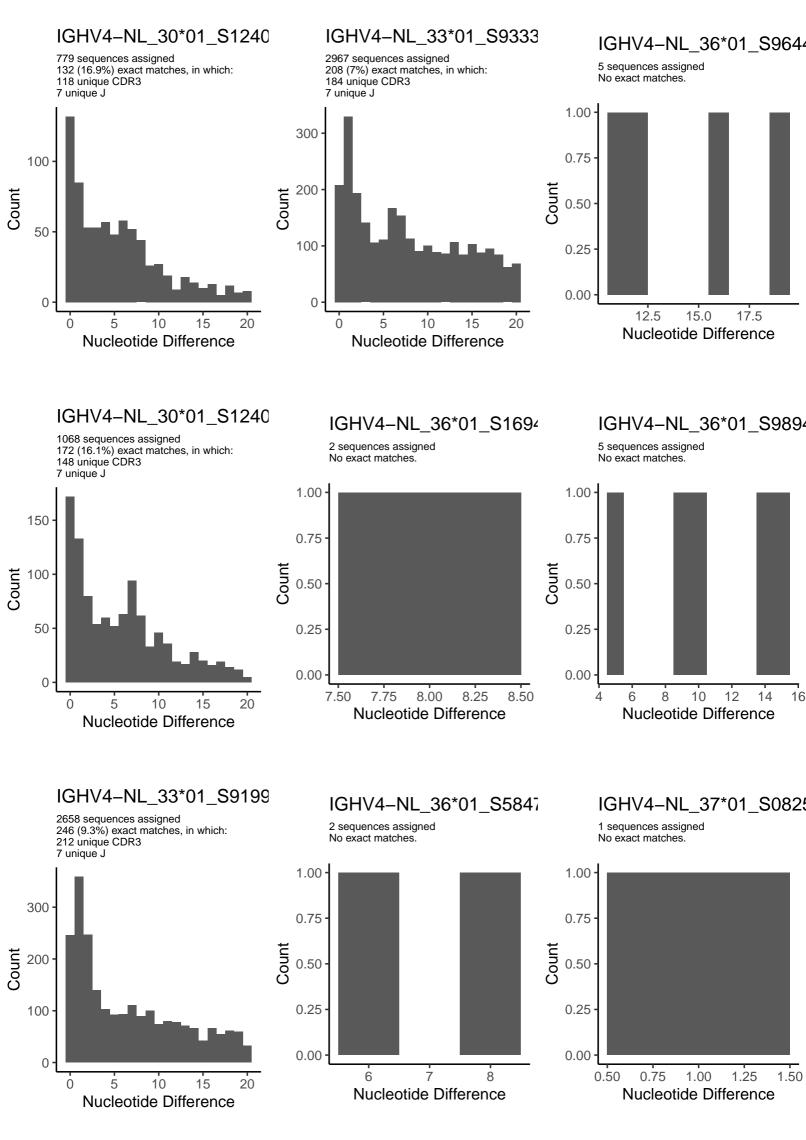


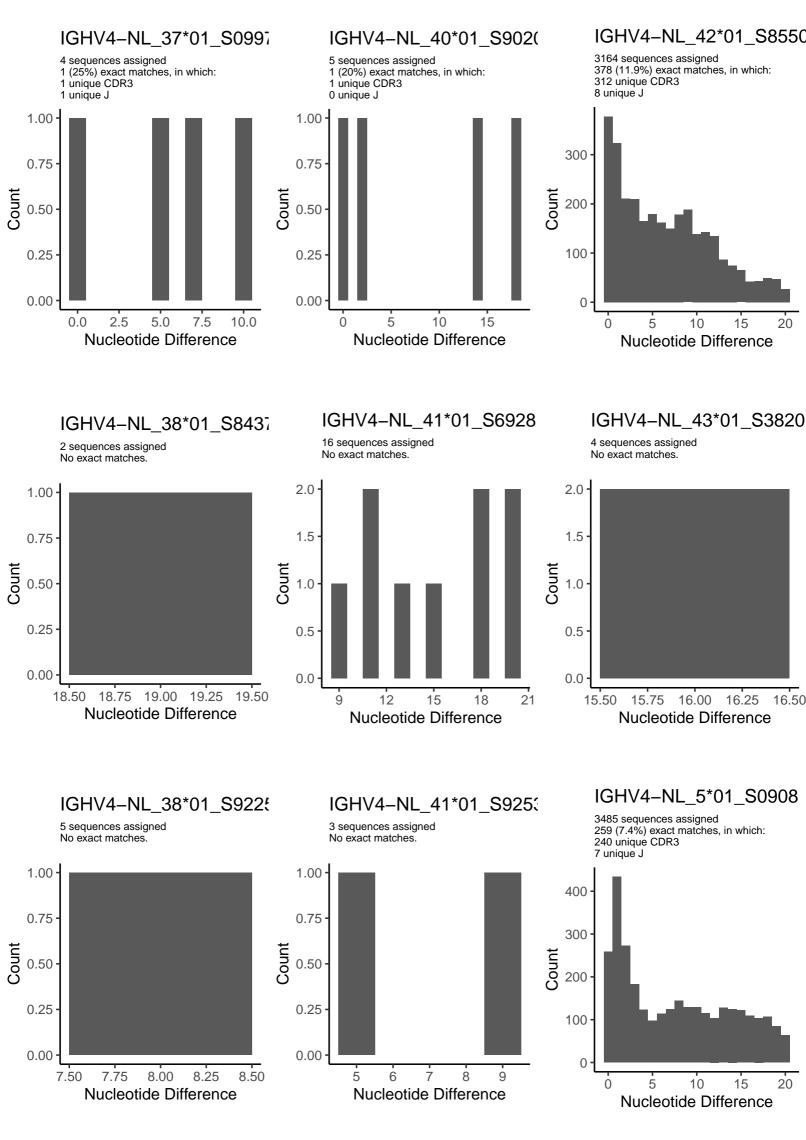


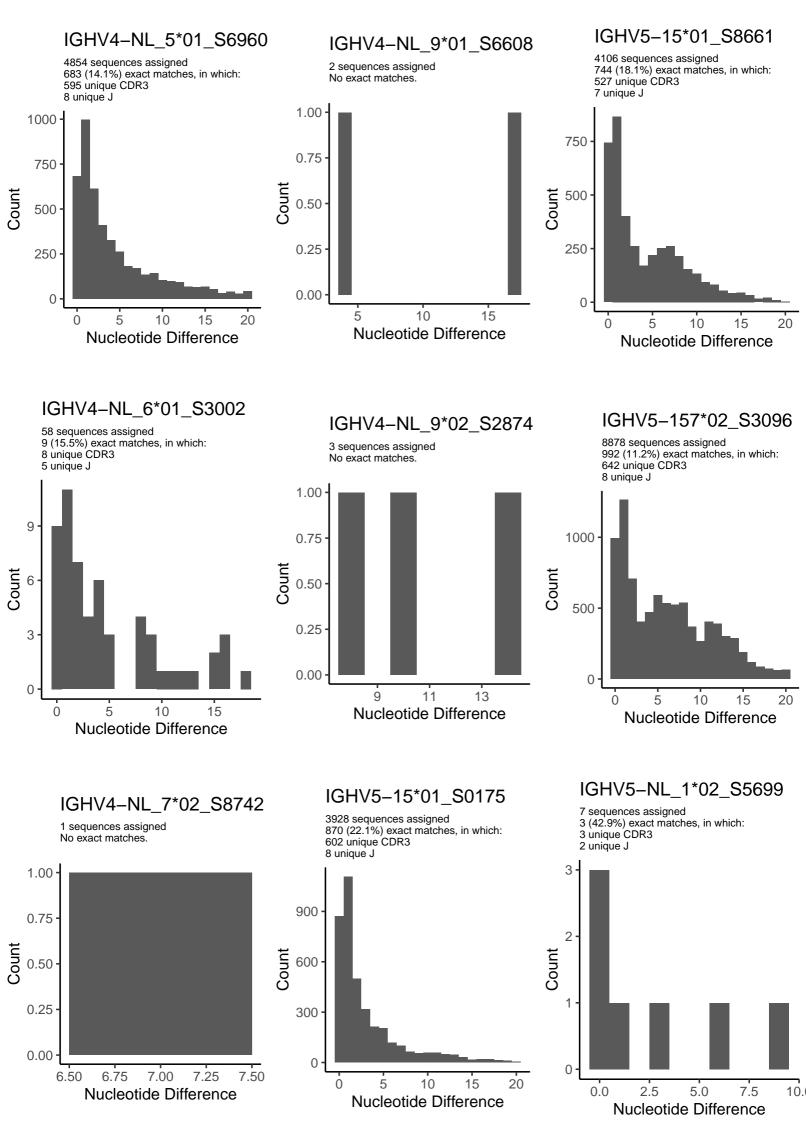






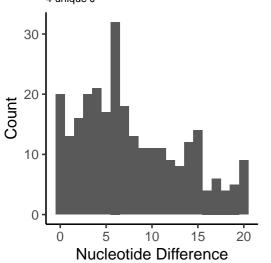






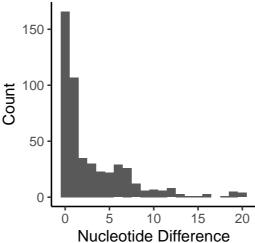
## IGHV6-1\*02\_G283T

291 sequences assigned 20 (6.9%) exact matches, in which: 18 unique CDR3 4 unique J



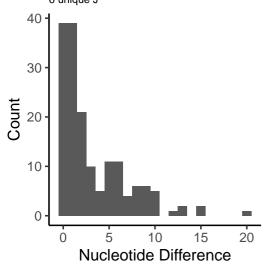
# IGHV7-86\*02\_S1706

566 sequences assigned 166 (29.3%) exact matches, in which: 109 unique CDR3 9 unique J



# IGHV6-1\*02\_S6792

163 sequences assigned 39 (23.9%) exact matches, in which: 26 unique CDR3 6 unique J



## IGHV7-86\*01\_S5062

224 sequences assigned 72 (32.1%) exact matches, in which: 44 unique CDR3 7 unique J

