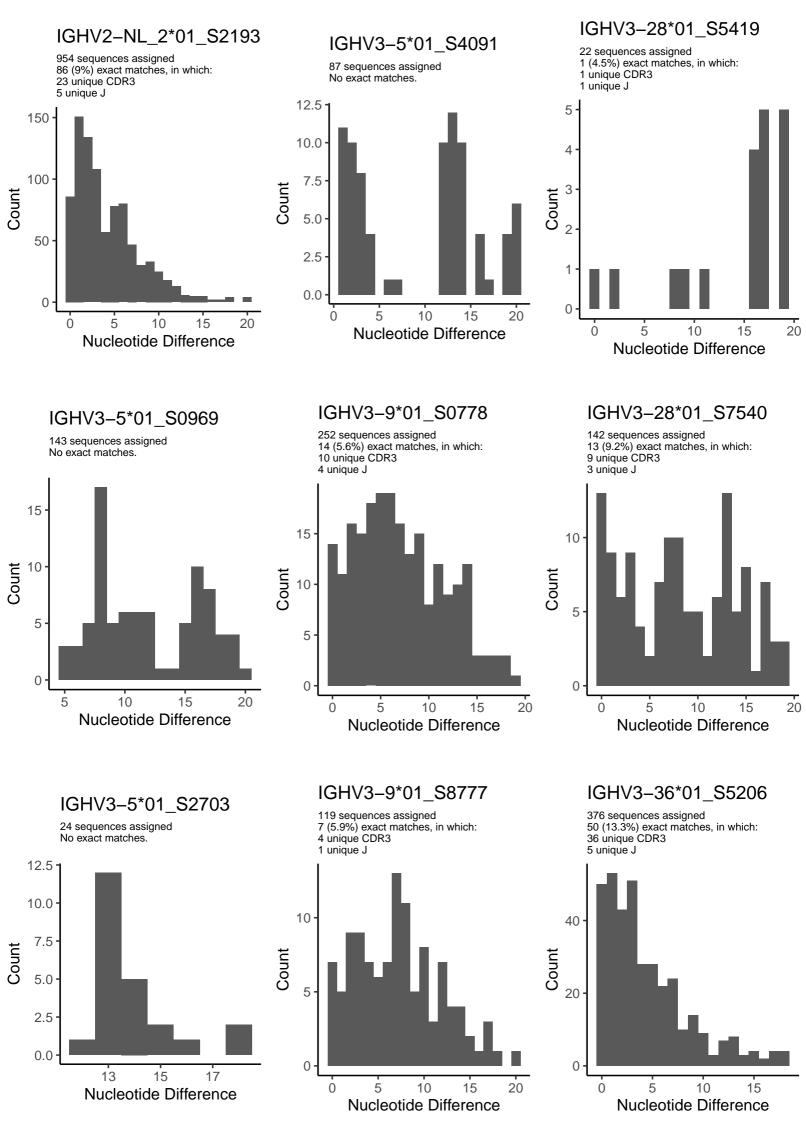
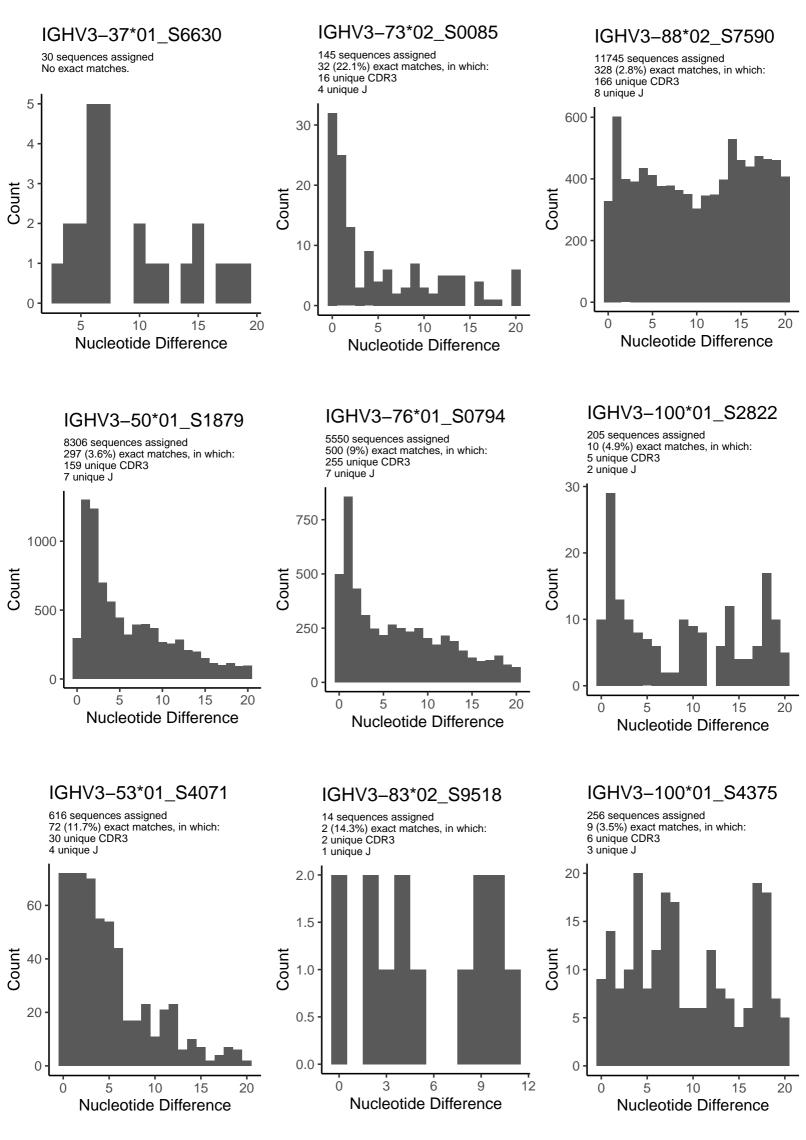
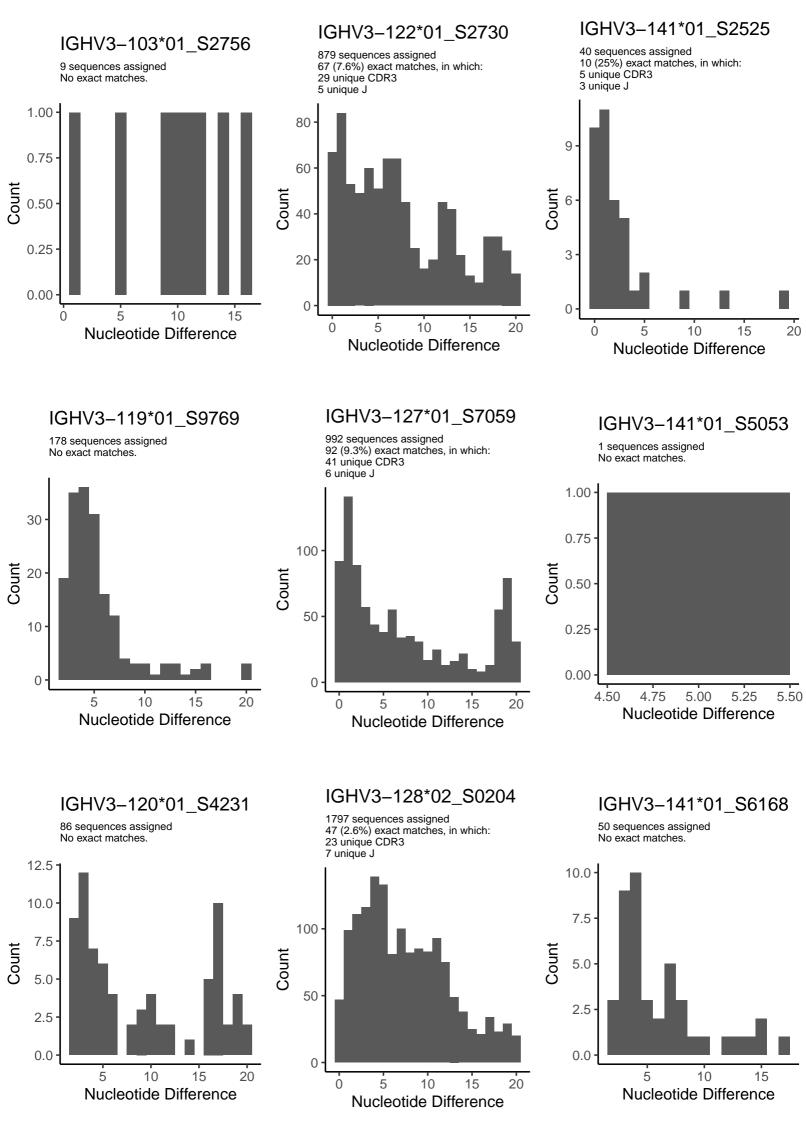
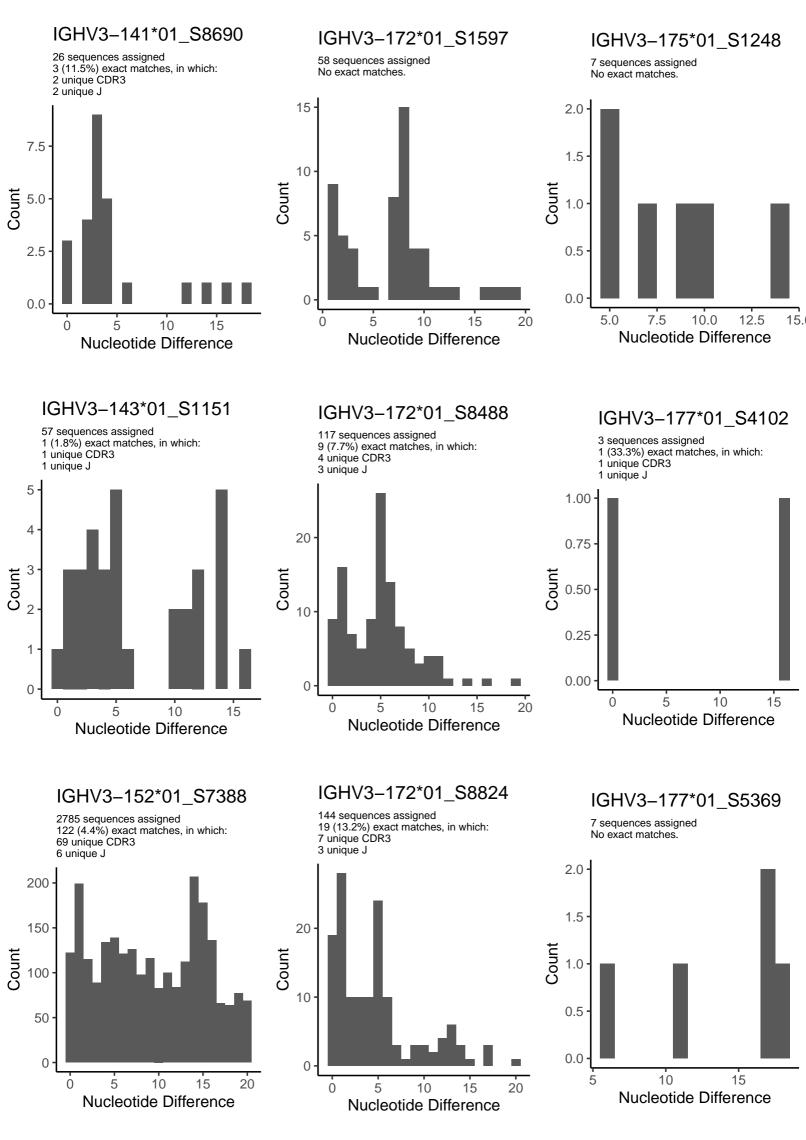


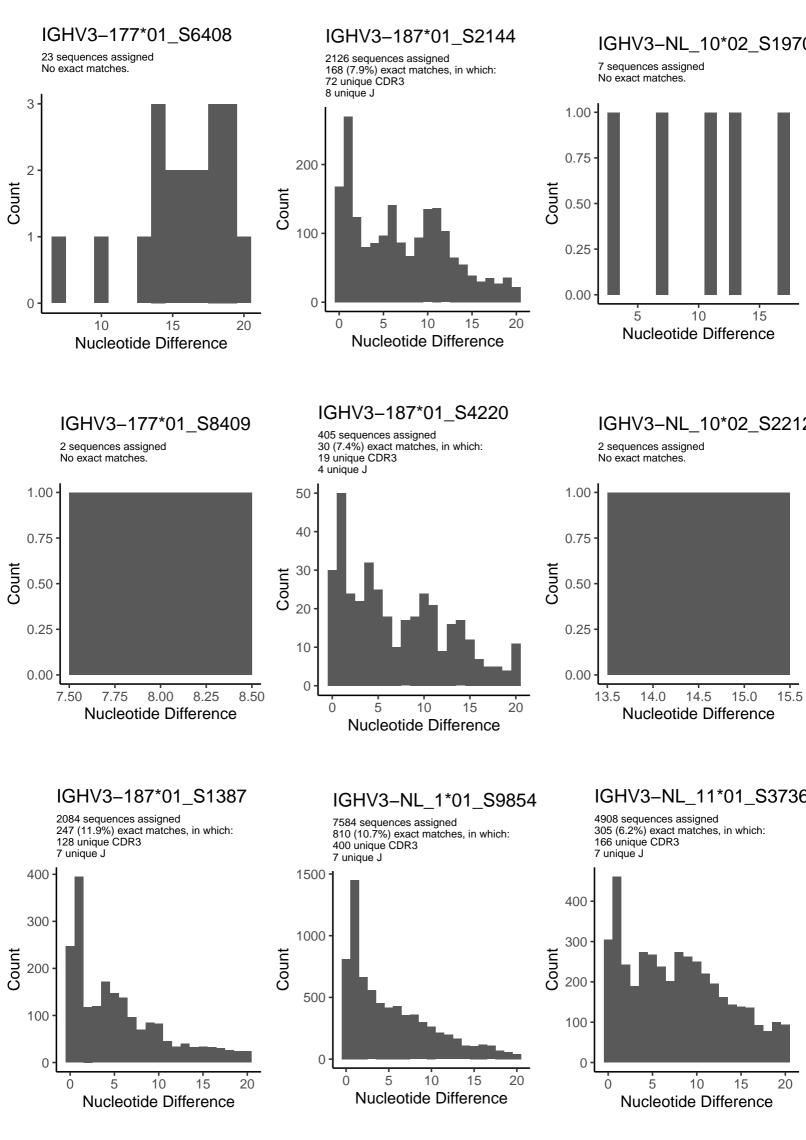
#### IGHV2-7\*02\_S1732 IGHV2-69\*01\_S2332 IGHV2-173\*01\_S2781 623 sequences assigned 36 (5.8%) exact matches, in which: 350 sequences assigned 2260 sequences assigned 386 (17.1%) exact matches, in which: 17 (4.9%) exact matches, in which: 14 unique CDR3 17 unique CDR3 165 unique CDR3 2 unique J 5 unique J 7 unique J Count Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-69\*01\_S2931 IGHV2-7\*02\_S4285 IGHV2-173\*01\_T210G\_0 511 sequences assigned 29 (5.7%) exact matches, in which: 1623 sequences assigned 107 (6.6%) exact matches, in which: 579 sequences assigned 148 (25.6%) exact matches, in which: 11 unique CDR3 54 unique CDR3 102 unique CDR3 5 unique J 5 unique J 7 unique J Count Count **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-7\*02\_S4285\_G289 IGHV2-118\*01\_S4531 IGHV2-NL\_1\*01\_S2133 511 sequences assigned 1417 sequences assigned 101 (7.1%) exact matches, in which: 2601 sequences assigned 63 (12.3%) exact matches, in which: 142 (5.5%) exact matches, in which: 54 unique CDR3 44 unique CDR3 65 unique CDR3 5 unique J 6 unique J 7 unique J Count **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**

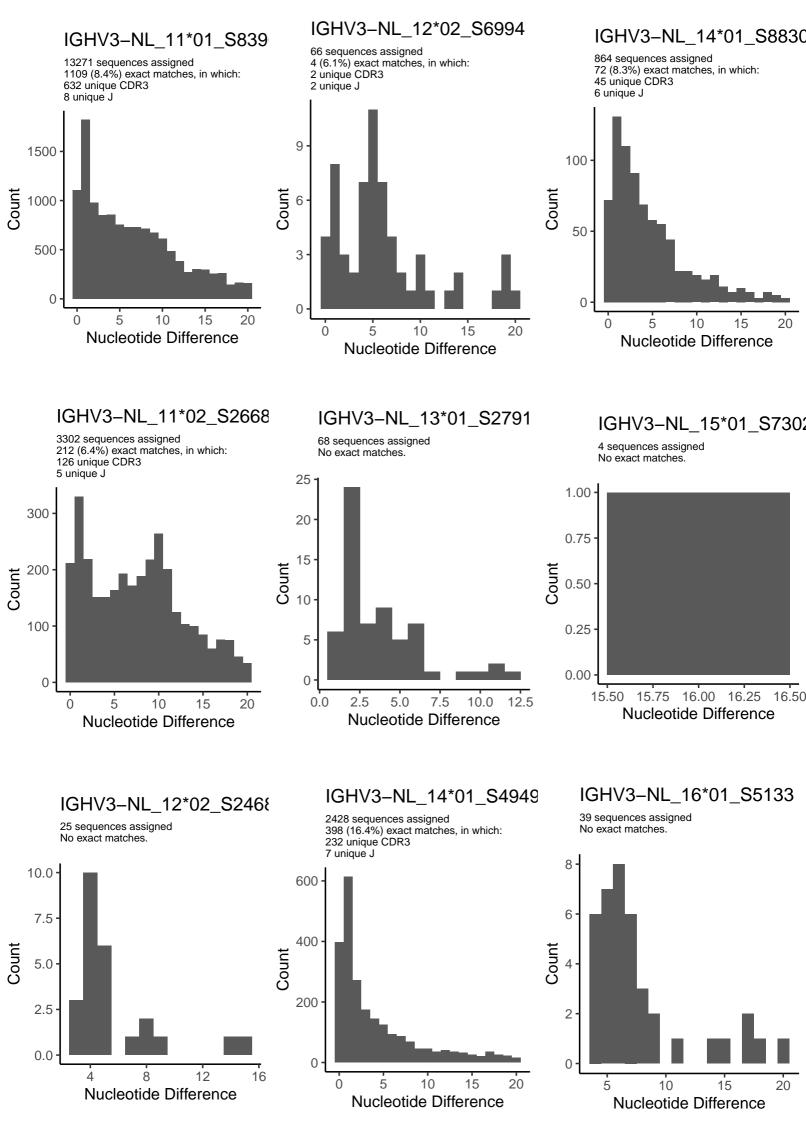


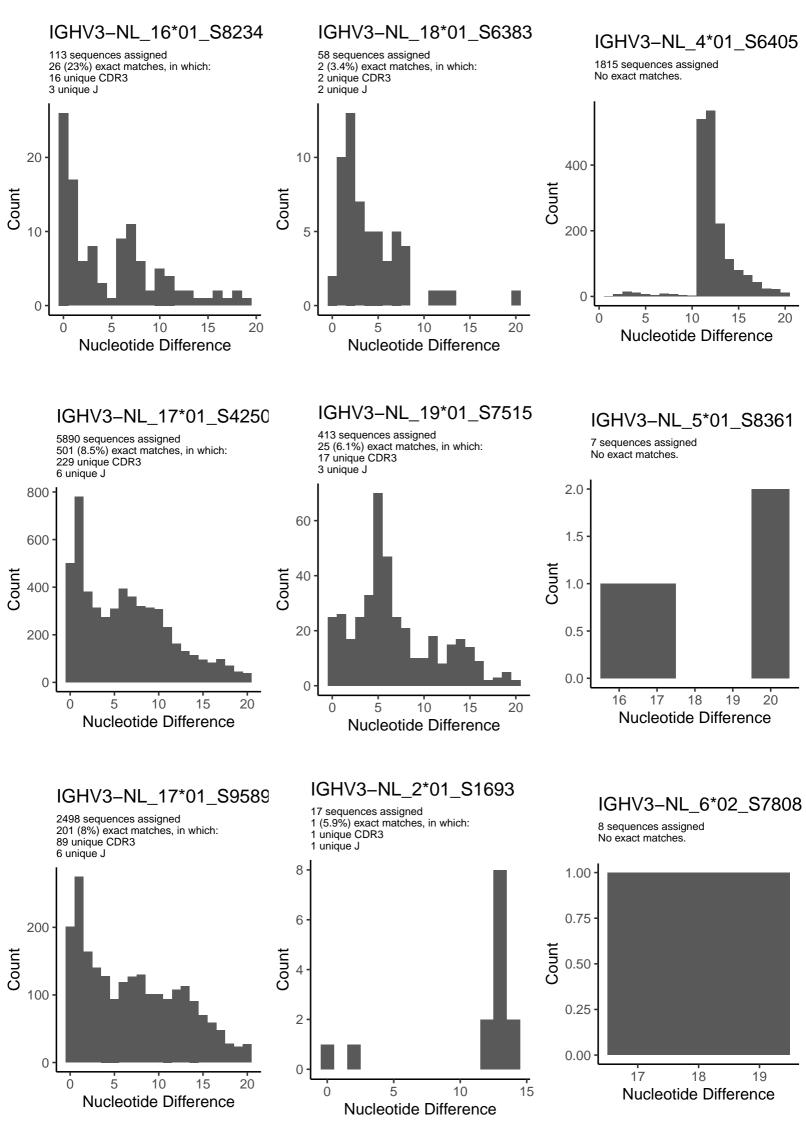


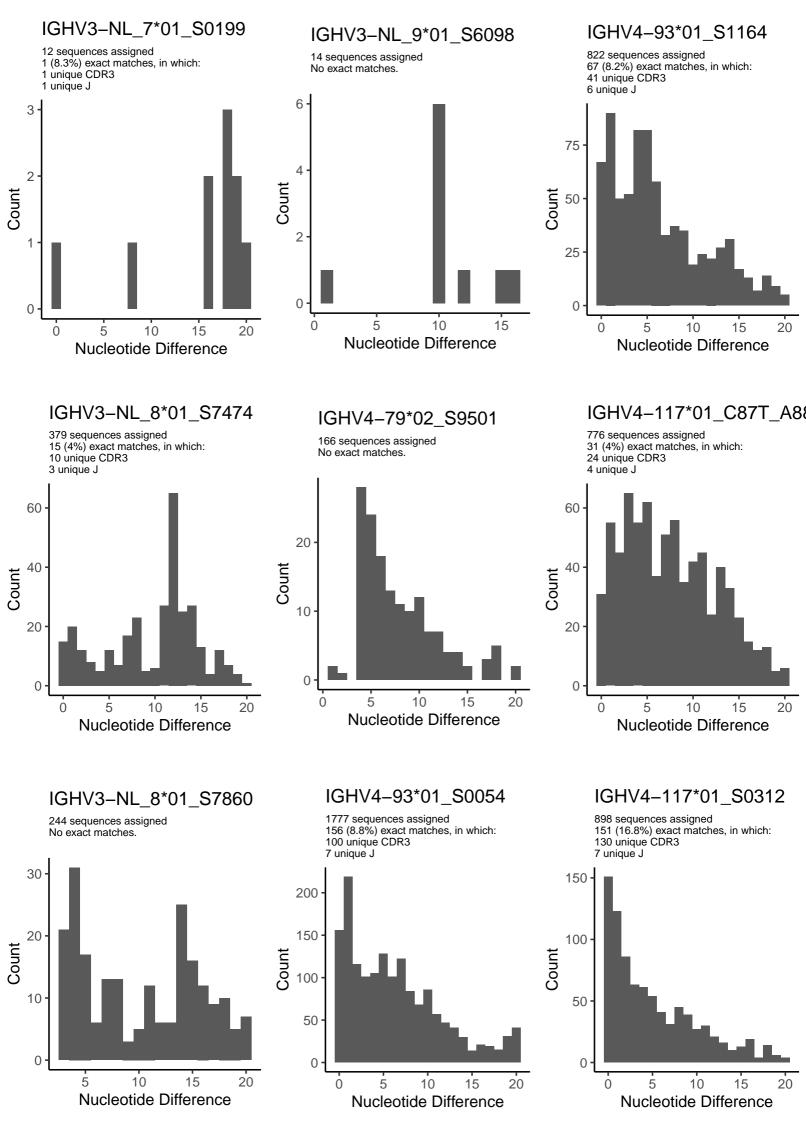




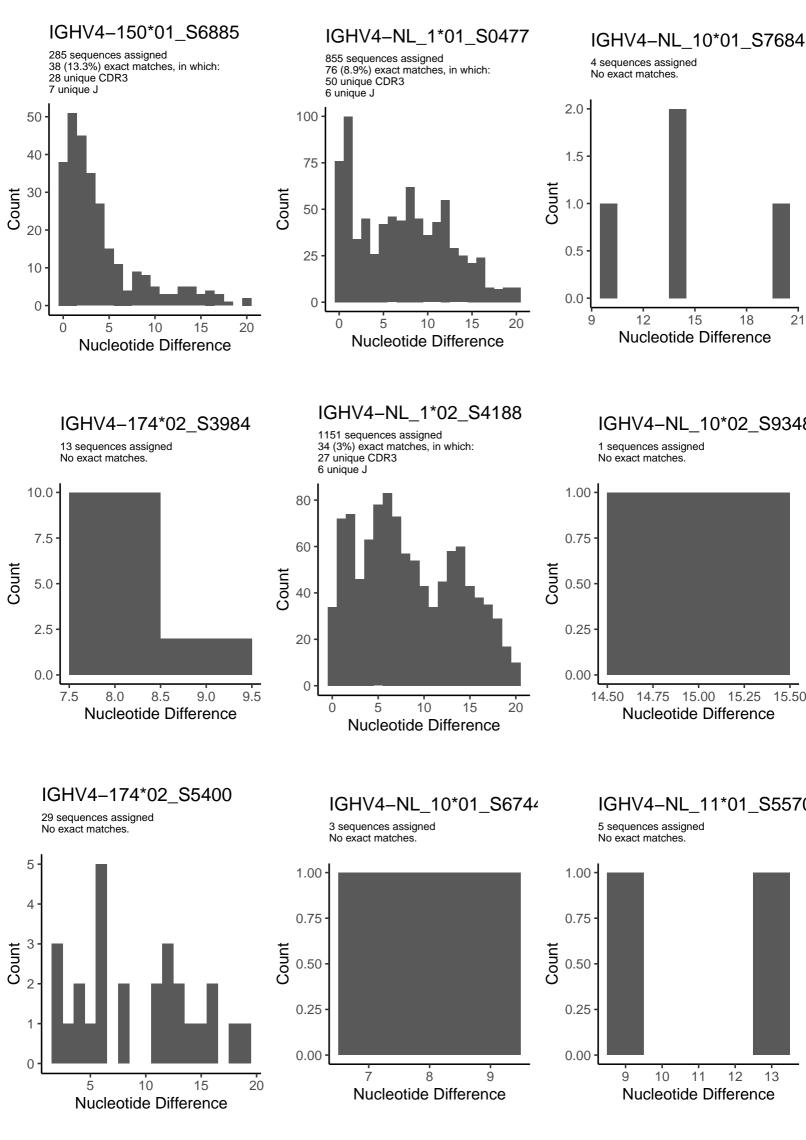


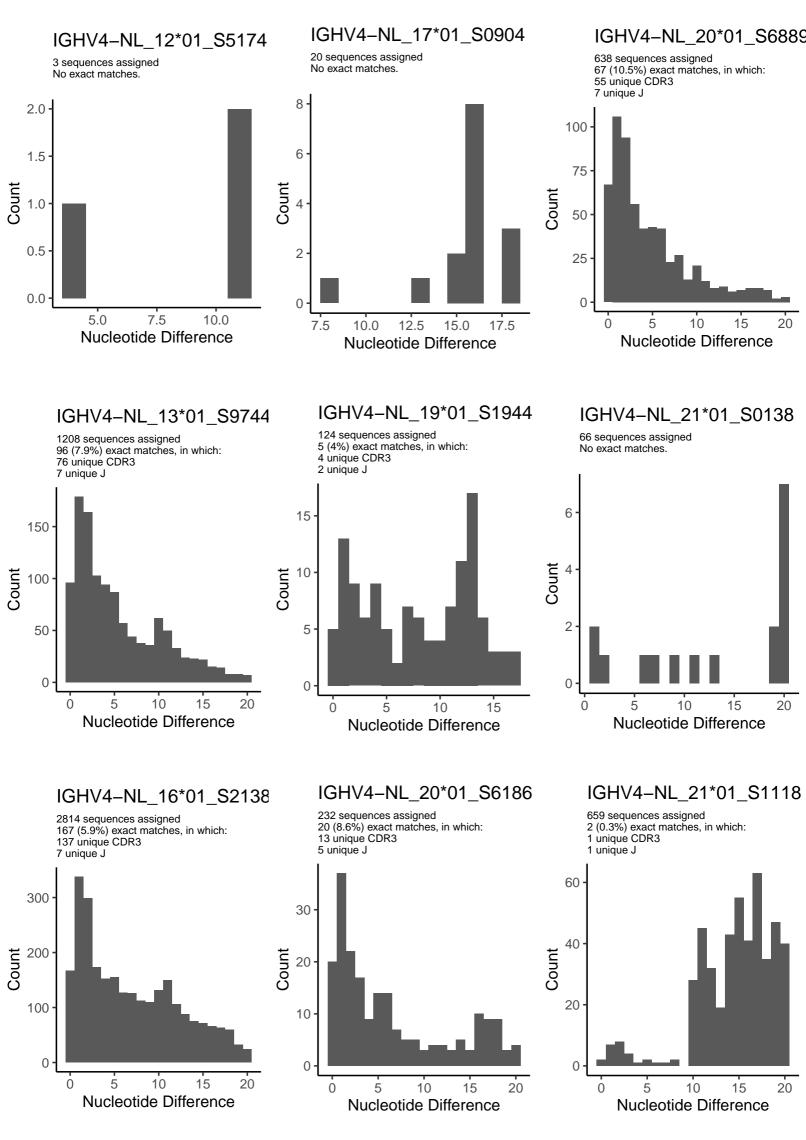


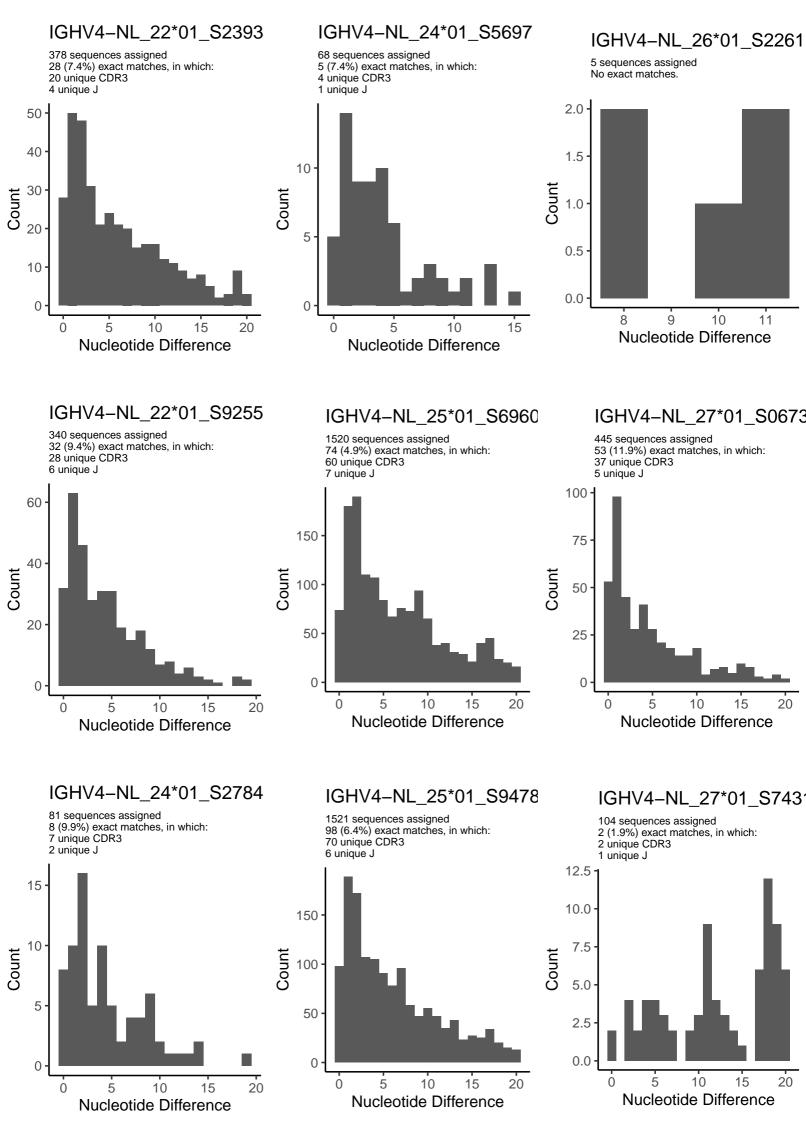


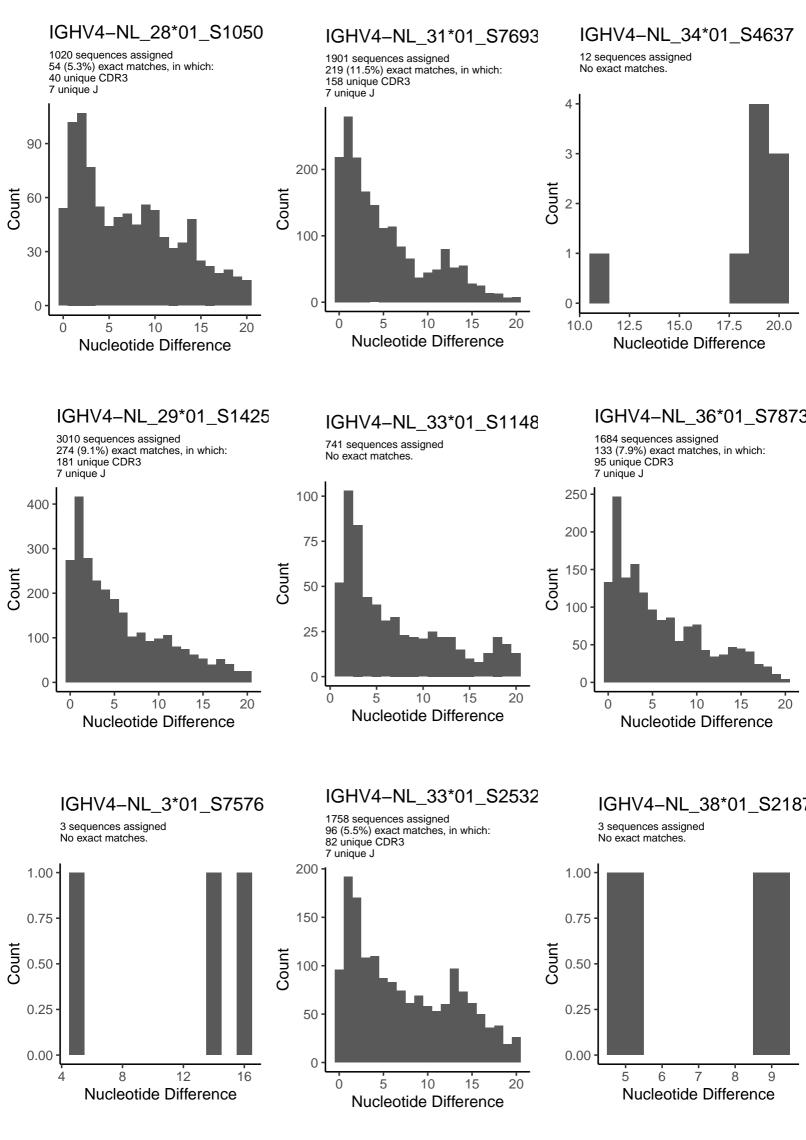


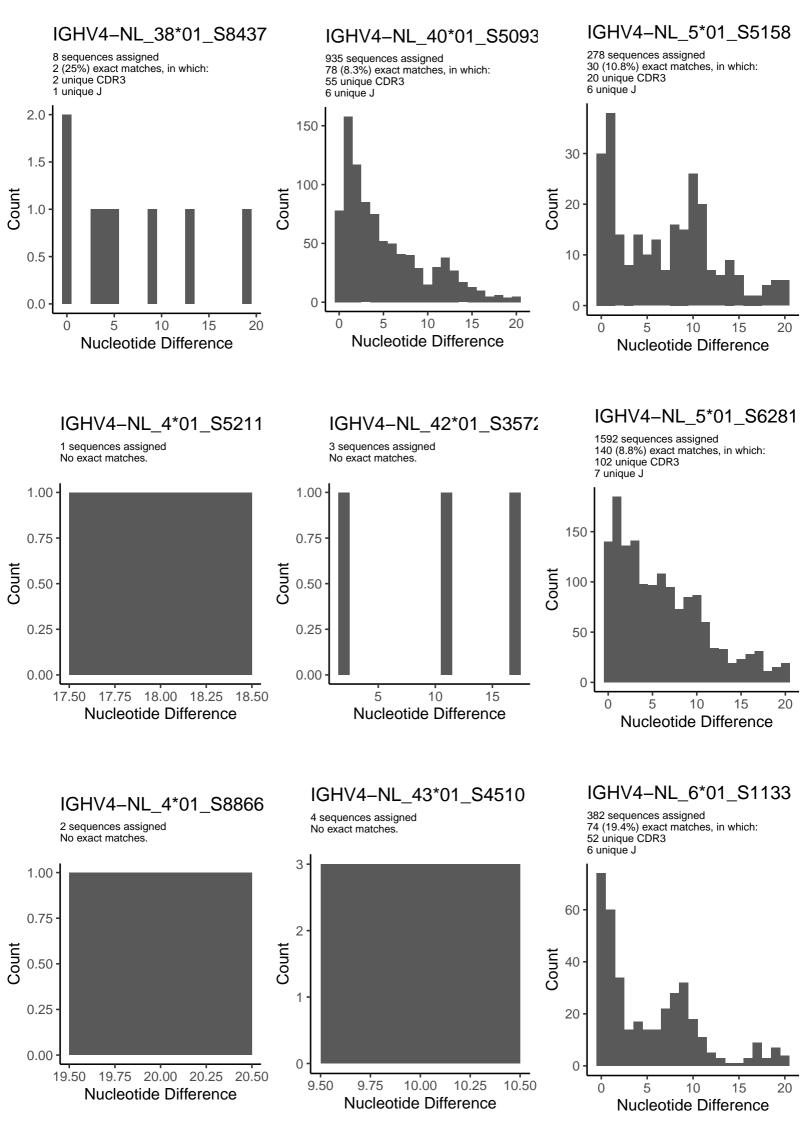
#### IGHV4-144\*01\_S3064 IGHV4-144\*01\_S8596 IGHV4-149\*01\_S5300 3028 sequences assigned 271 (8.9%) exact matches, in which: 1008 sequences assigned 901 sequences assigned 61 (6.8%) exact matches, in which: 47 unique CDR3 109 (10.8%) exact matches, in which: 84 unique CDR3 192 uniqué CDR3 6 unique J 8 unique J 6 unique J 200 400 100 150 300 75 Count Count 100 50 200 50 100 25 0 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV4-144\*01 S3113 IGHV4-150\*01 S2067 IGHV4-149\*01 S1430 647 sequences assigned 96 sequences assigned 872 sequences assigned 95 (10.9%) exact matches, in which: 46 (7.1%) exact matches, in which: 33 unique CDR3 15 (15.6%) exact matches, in which: 11 unique CDR3 54 unique CDR3 6 unique J 3 unique J 5 unique J 120 15 80 90 60 10 Count Count 60 40 5 30 20 0 0 0 20 5 10 15 0 10 15 10 15 20 0 5 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV4-150\*01\_S5542 IGHV4-144\*01\_S5374 IGHV4-149\*01\_S2001 47 sequences assigned 777 sequences assigned 1145 sequences assigned 3 (6.4%) exact matches, in which: 47 (6%) exact matches, in which: 120 (10.5%) exact matches, in which: 2 unique CDR3 31 unique CDR3 78 unique CDR3 1 unique J 6 unique J 5 unique J 6 100 150 75 Count Count 100 50 2 50 25 0 0 0 5 10 15 20 5 10 15 20 0 5 10 15 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**

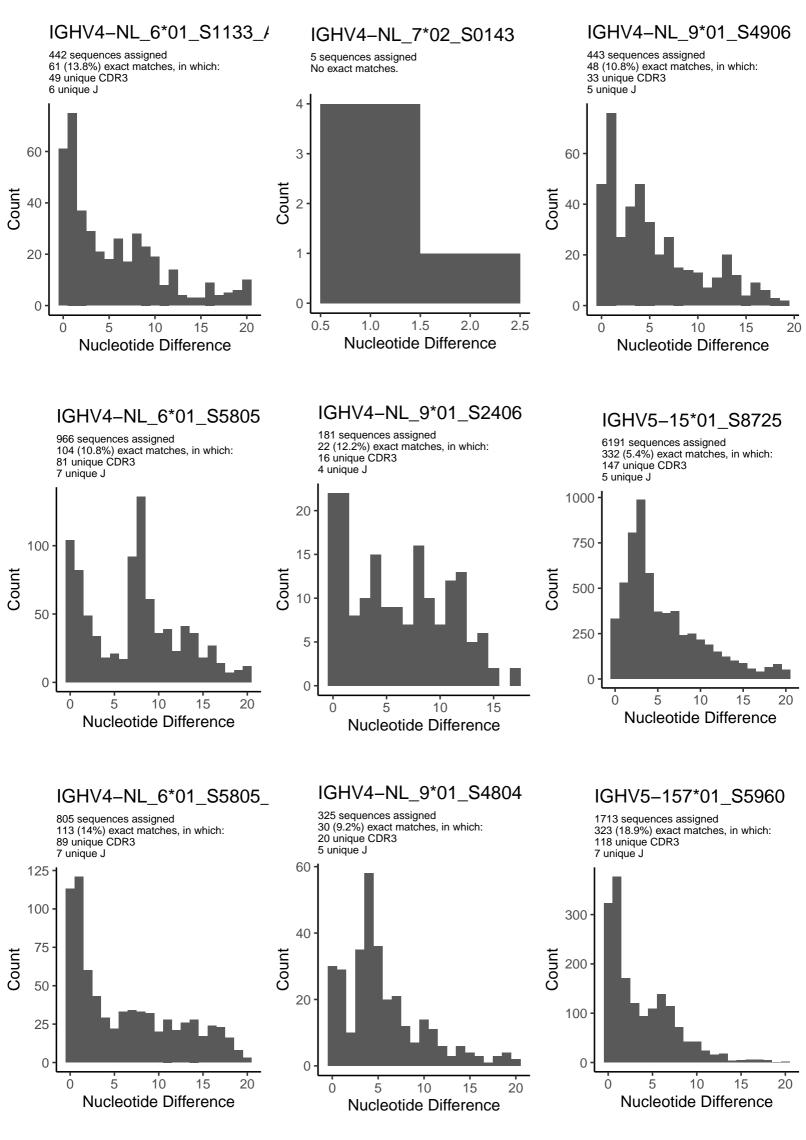






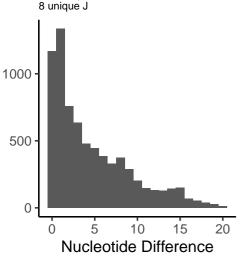






# IGHV5-157\*02\_S7648

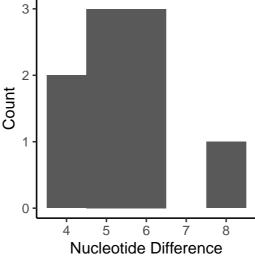
7462 sequences assigned 1169 (15.7%) exact matches, in which: 460 unique CDR3



Count

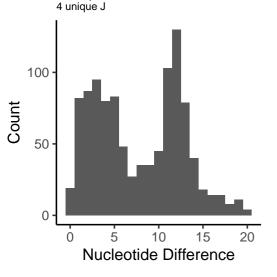
## IGHV7-135\*01\_S9086

9 sequences assigned No exact matches.



### IGHV6-1\*02\_G280T

1075 sequences assigned 19 (1.8%) exact matches, in which: 13 unique CDR3



## IGHV7-86\*01\_S0351

574 sequences assigned 64 (11.1%) exact matches, in which: 22 unique CDR3 4 unique J

