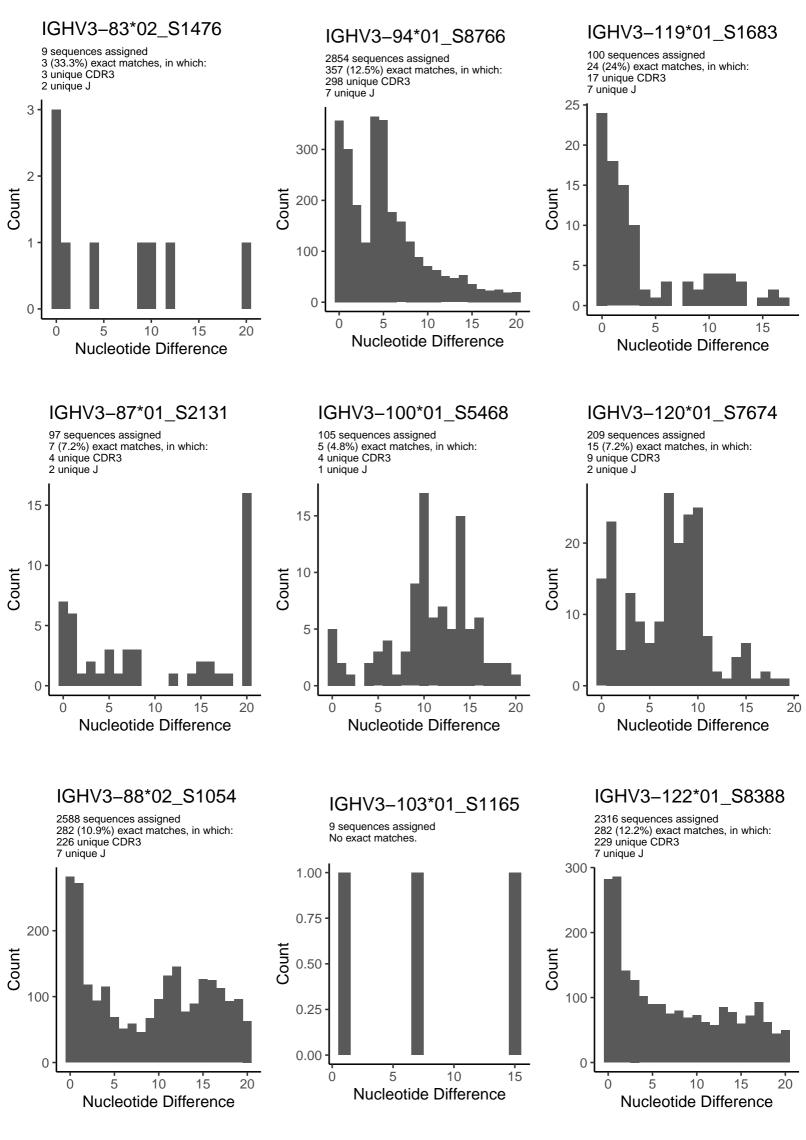
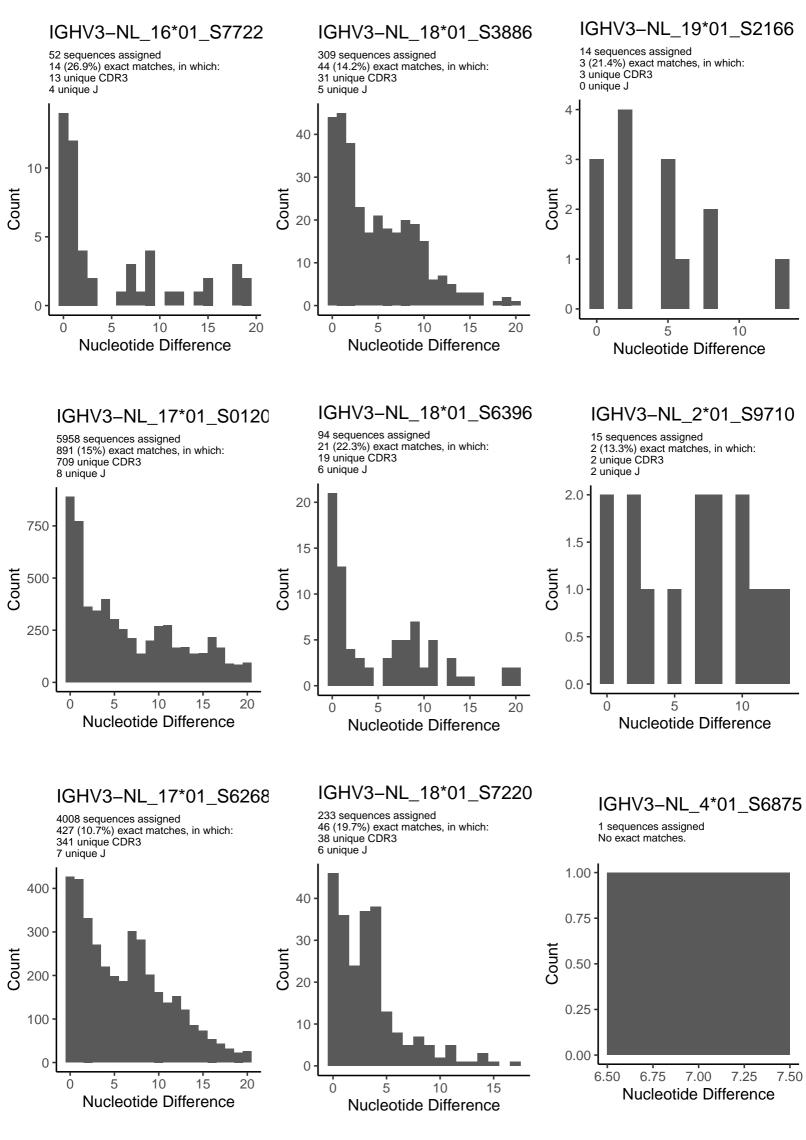


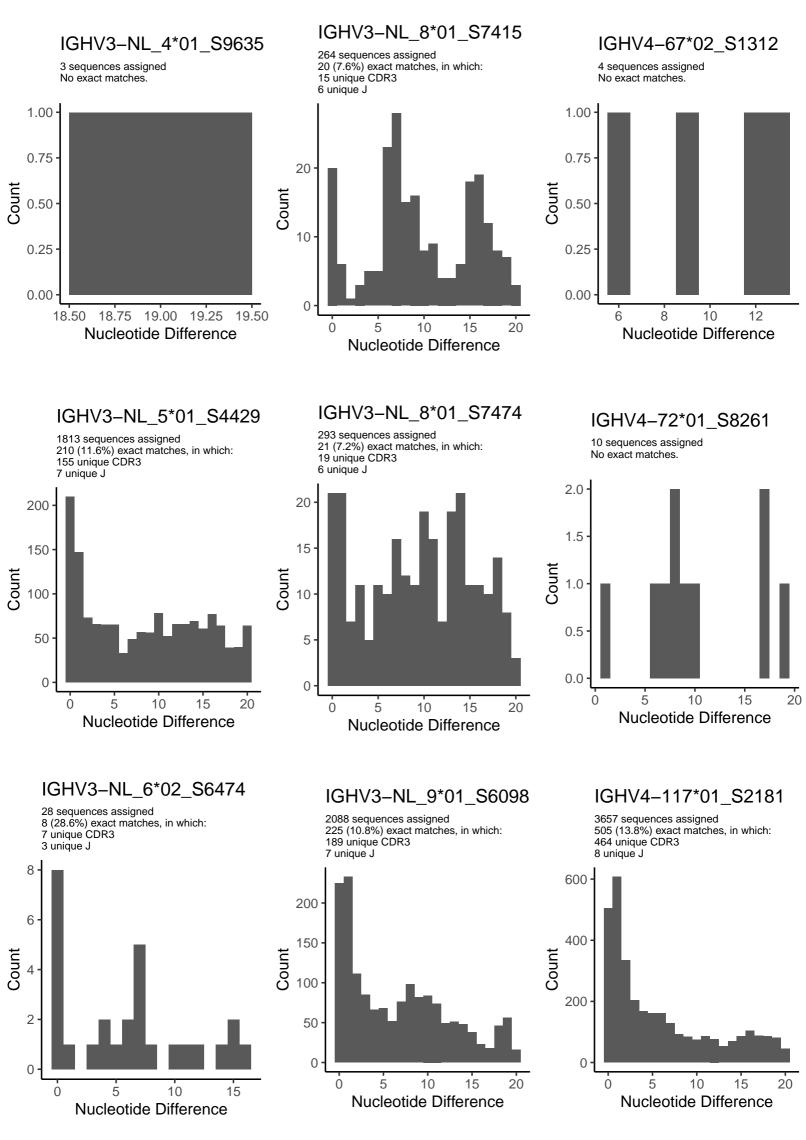
### IGHV3-52\*02\_S4550 IGHV3-73\*02\_S0606 IGHV3-76\*02\_S4190 217 sequences assigned 32 (14.7%) exact matches, in which: 157 sequences assigned 62 (39.5%) exact matches, in which: 7572 sequences assigned 856 (11.3%) exact matches, in which: 52 unique CDR3 7 unique J 24 unique CDR3 725 unique CDR3 6 unique J 7 unique J 60 30 900 40 Count Count Count 600 20 10 300 0 0 0 5 10 15 20 0 10 15 0 15 0 10 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-53\*01\_S8913 IGHV3-73\*02\_S4889 IGHV3-76\*02\_S4686 169 sequences assigned 60 (35.5%) exact matches, in which: 593 sequences assigned 2951 sequences assigned 75 (12.6%) exact matches, in which: 151 (5.1%) exact matches, in which: 66 unique CDR3 52 unique CDR3 130 unique CDR3 6 unique J 6 unique J 7 unique J 200 60 60 150 40 Count Count 40 100 20 20 50 0 0 0 10 15 20 0 5 10 15 0 10 15 20 0 5 20 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-73\*01\_S7929 IGHV3-83\*01\_S5932 IGHV3-76\*01\_S9591 241 sequences assigned 72 sequences assigned 11284 sequences assigned 946 (8.4%) exact matches, in which: 80 (33.2%) exact matches, in which: 12 (16.7%) exact matches, in which: 64 unique CDR3 11 unique CDR3 779 unique CDR3 7 unique J 4 unique J 9 unique J 80 1000 60 750 10 Count Count 40 500 5 250 20 0 0 0 10 15 20 0 10 15 20 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference

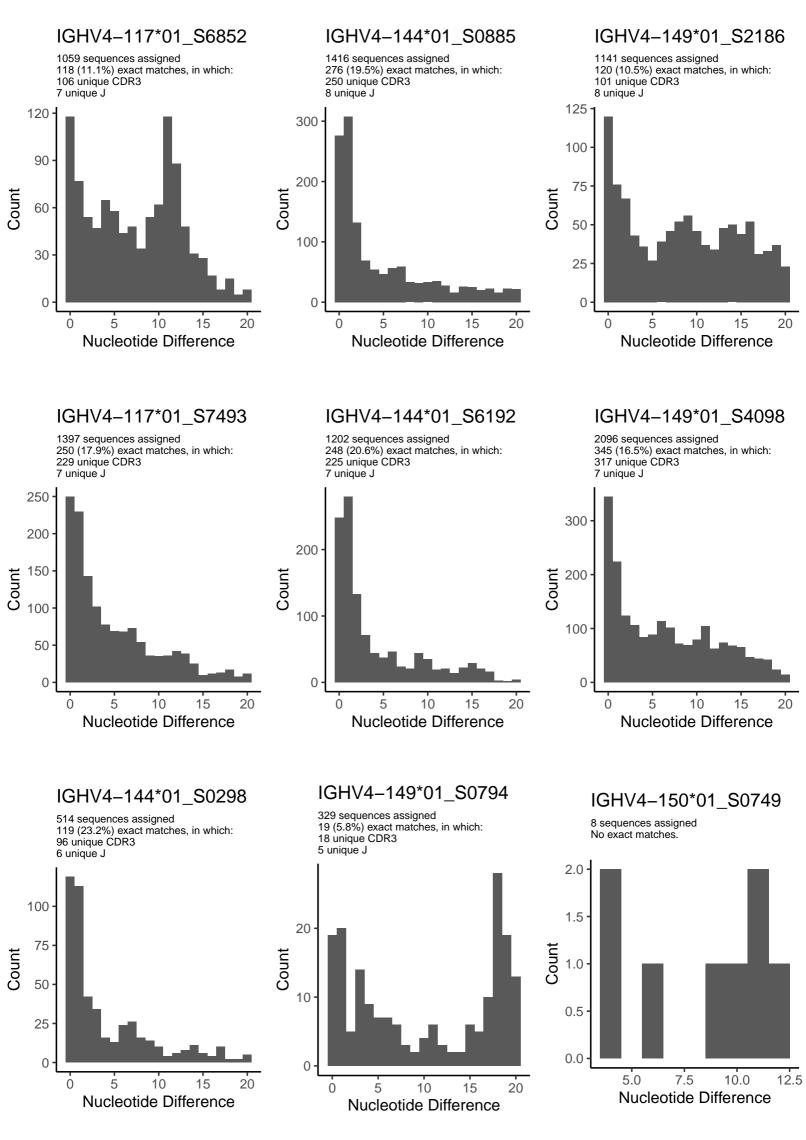


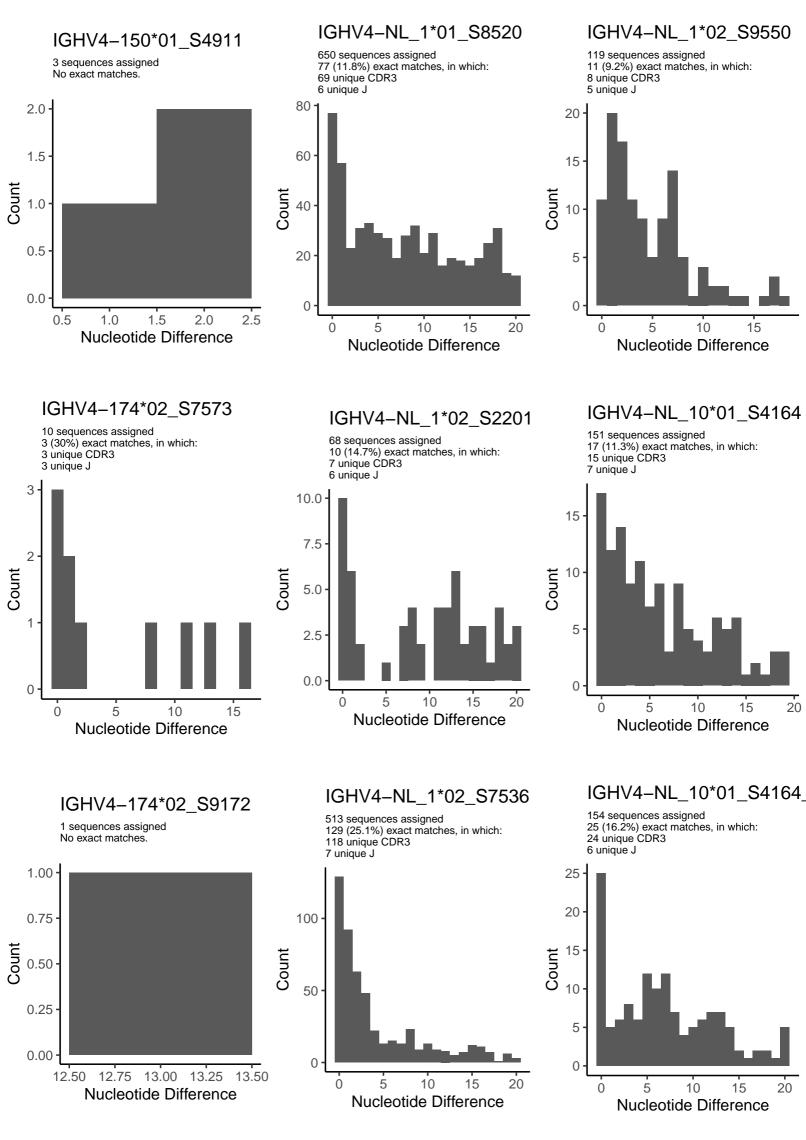
### IGHV3-141\*02\_S4330 IGHV3-128\*01\_S3124 IGHV3-152\*01\_S7388 113 sequences assigned 31 (27.4%) exact matches, in which: 2178 sequences assigned 5 sequences assigned 119 (5.5%) exact matches, in which: No exact matches. 26 unique CDR3 91 unique CDR3 5 unique J 7 unique J 2.0 30 1.5 100 20 Count 1.0 50 10 0.5 0.0 0 0 10 15 5 10 15 20 0 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-128\*02\_S7423 IGHV3-141\*02 S4949 IGHV3-172\*01 S1597 109 sequences assigned 33 (30.3%) exact matches, in which: 990 sequences assigned 94 (9.5%) exact matches, in which: 1345 sequences assigned 82 (6.1%) exact matches, in which: 27 unique CDR3 7 unique J 65 unique CDR3 75 unique CDR3 7 unique J 7 unique J 30 90 90 20 Count Count 60 10 30 30 0 0 0 10 15 10 15 10 15 20 0 5 20 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-141\*01\_S2251 IGHV3-143\*01\_S1591 IGHV3-177\*01\_S8409 122 sequences assigned 104 sequences assigned 1784 sequences assigned 25 (20.5%) exact matches, in which: 6 (5.8%) exact matches, in which: 148 (8.3%) exact matches, in which: 23 unique CDR3 5 unique CDR3 123 unique CDR3 5 unique J 3 unique J 7 unique J 150 15 20 100 10 Count Count 10 50 5 0 0 0 5 10 15 20 0 10 15 20 0 5 10 15 20 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

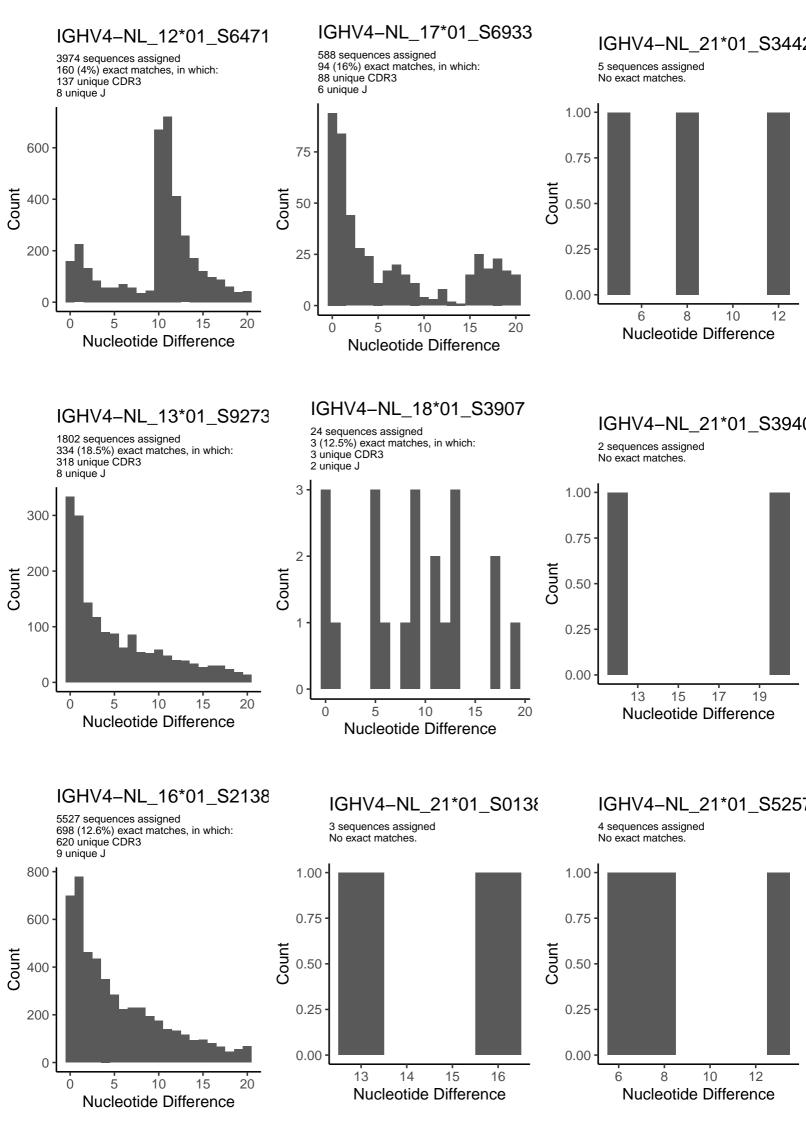
#### IGHV3-187\*01\_S1387 IGHV3-NL\_1\*01\_S6560 IGHV3-NL\_12\*02\_S3129 6297 sequences assigned 3308 sequences assigned 81 sequences assigned 658 (19.9%) exact matches, in which: 735 (11.7%) exact matches, in which: 10 (12.3%) exact matches, in which: 586 unique CDR3 535 unique CDR3 10 unique CDR3 8 unique J 7 unique J 4 unique J 10.0 600 600 7.5 400 Count Count 400 5.0 200 200 2.5 0.0 0 0 20 5 10 15 5 10 15 20 5 10 15 20 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-NL\_13\*01\_S3277 IGHV3-187\*01\_S9337 IGHV3-NL\_10\*02\_S315 356 sequences assigned 2286 sequences assigned 161 (7%) exact matches, in which: 1 sequences assigned 66 (18.5%) exact matches, in which: No exact matches. 49 unique CDR3 133 unique CDR3 7 unique J 8 unique J 1.00 80 150 0.75 60 Count Count 100 0.50 40 0.25 50 20 0.00 0 0 11.50 11.75 12.00 12.25 12.50 15 20 0 5 10 15 20 0 10 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-NL\_1\*01\_S4906 IGHV3-NL\_11\*01\_S4102 IGHV3-NL\_16\*01\_S5994 38 sequences assigned 2671 sequences assigned 5781 sequences assigned 3 (7.9%) exact matches, in which: 468 (17.5%) exact matches, in which: 446 (7.7%) exact matches, in which: 3 uniqué CDR3 375 unique CDR3 372 unique CDR3 2 unique J 9 unique J 8 unique J 500 400 7.5 400 300 300 Count 5.0 200 2.5 100 100 0 0 0.0 10 15 5 10 20 5 20 15 10 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference

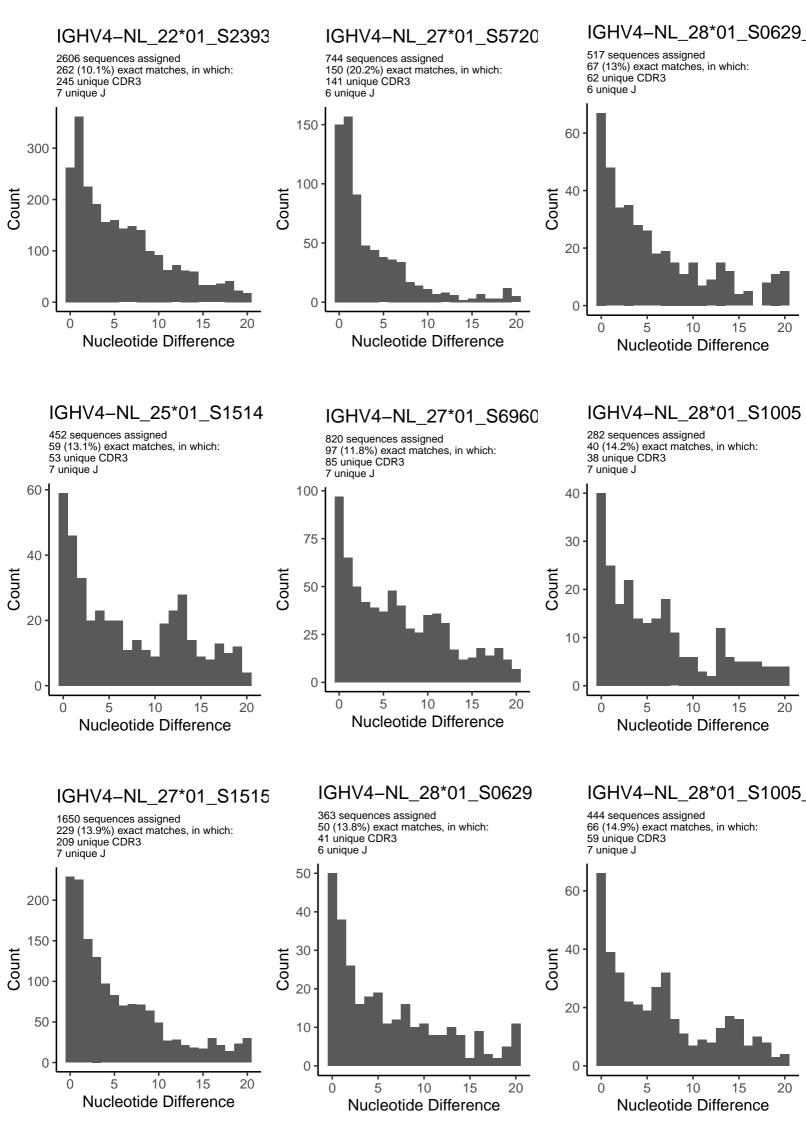


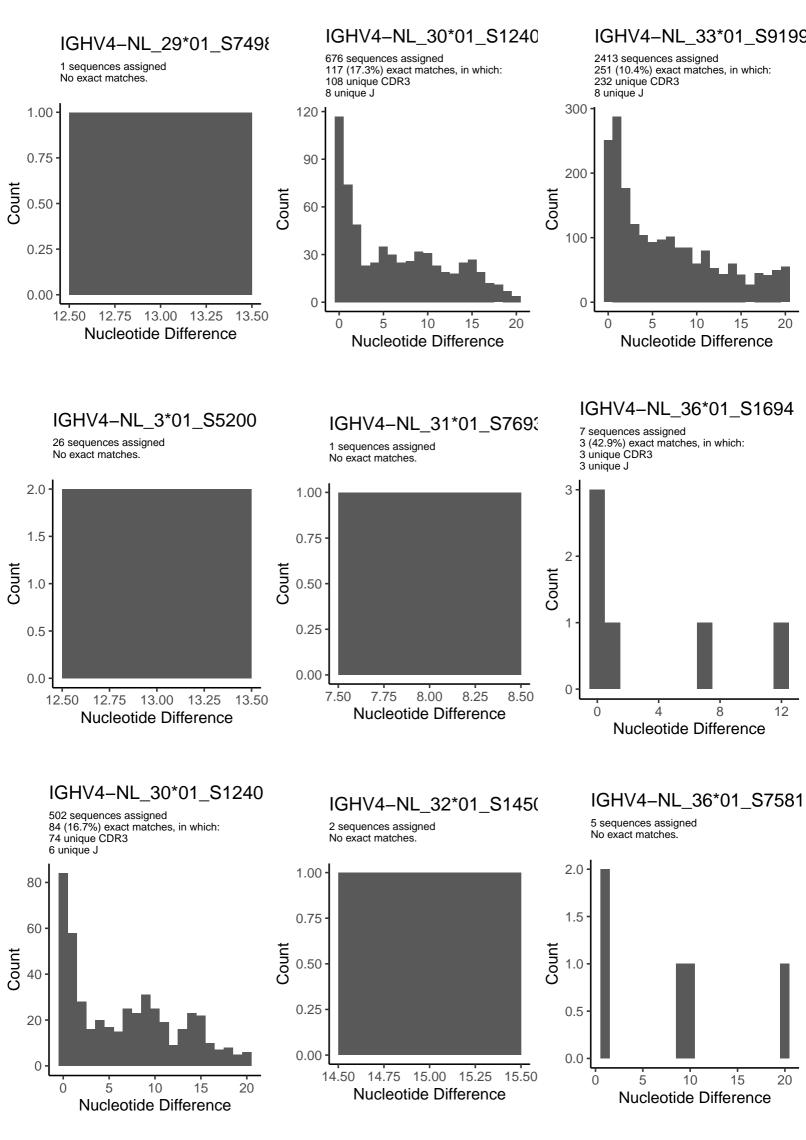


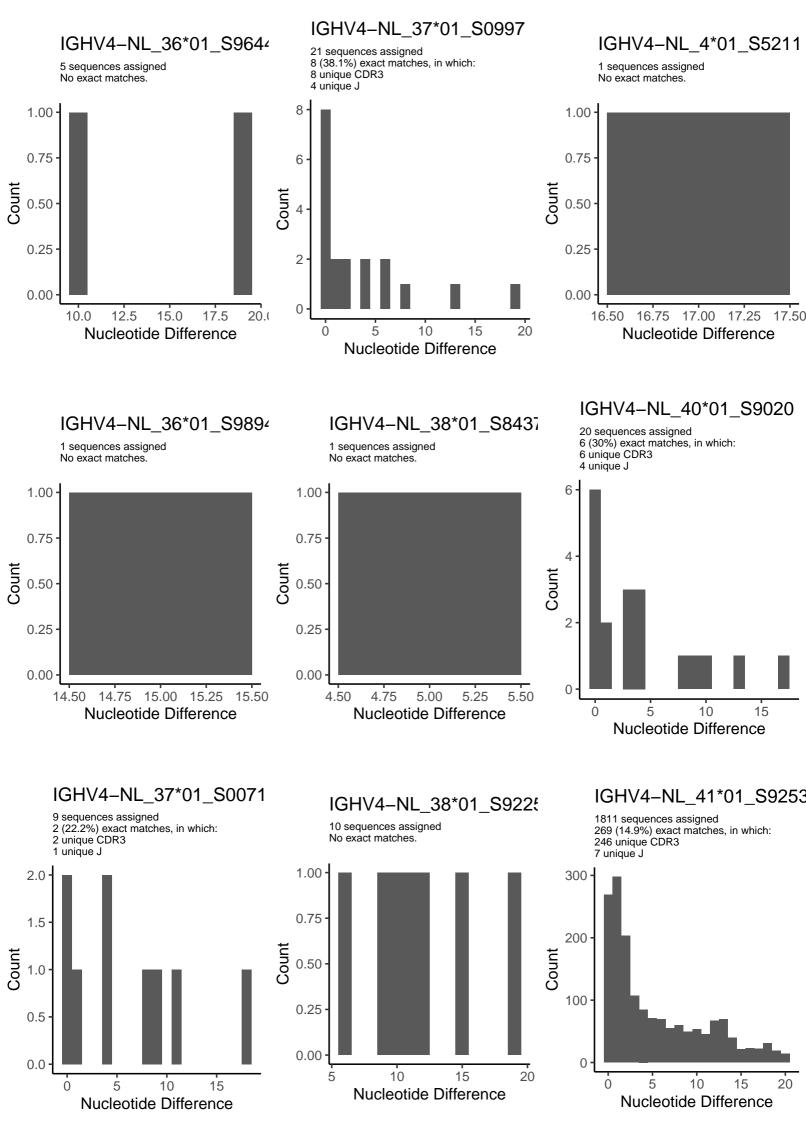


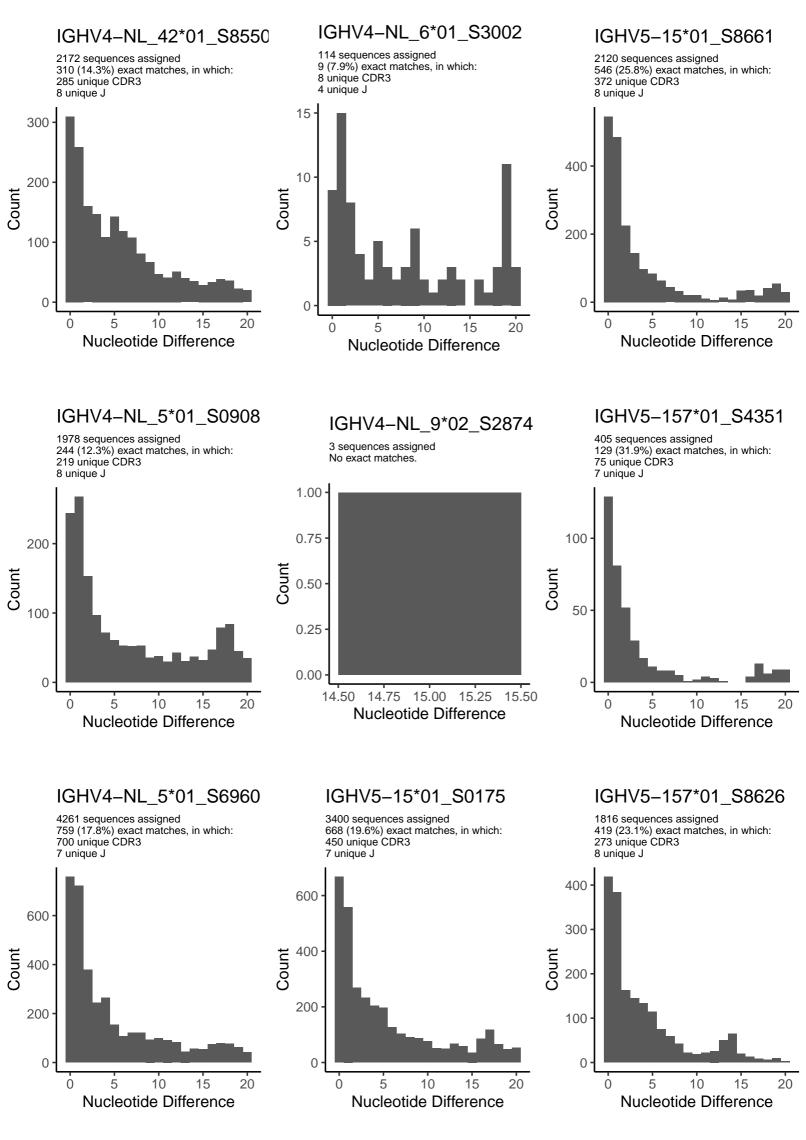






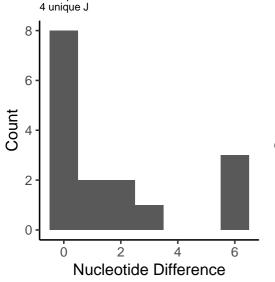






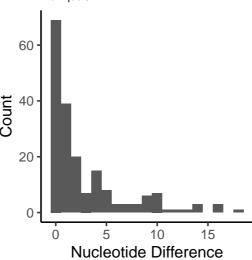
# IGHV5-NL\_1\*02\_S5699

16 sequences assigned 8 (50%) exact matches, in which: 8 unique CDR3



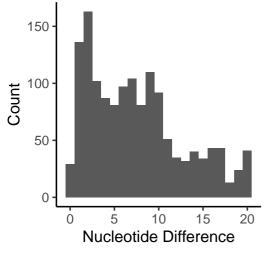
## IGHV7-86\*02\_S1706

217 sequences assigned 69 (31.8%) exact matches, in which: 50 unique CDR3 7 unique J



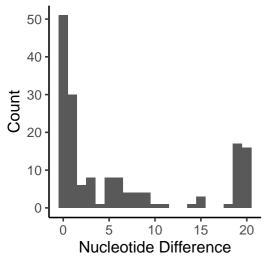
## IGHV6-1\*01\_G283T

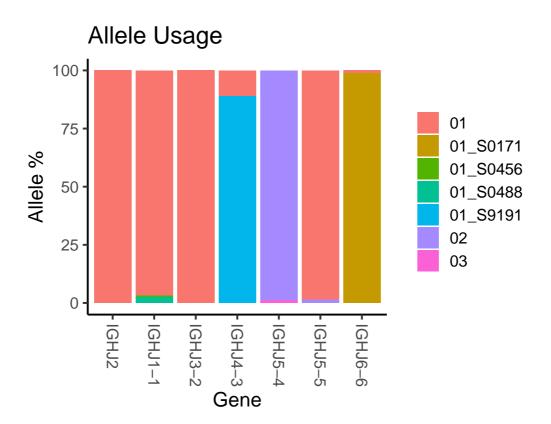
1524 sequences assigned 29 (1.9%) exact matches, in which: 26 unique CDR3 5 unique J



## IGHV7-86\*01\_S5062

177 sequences assigned 51 (28.8%) exact matches, in which: 36 unique CDR3 6 unique J





Warning: sequence(s) for allele(s) IGHV3-50\*01\_43 can't be found in the reference set or the novel alleles file.

Warning – no inferred sequences found.