

320 A

G

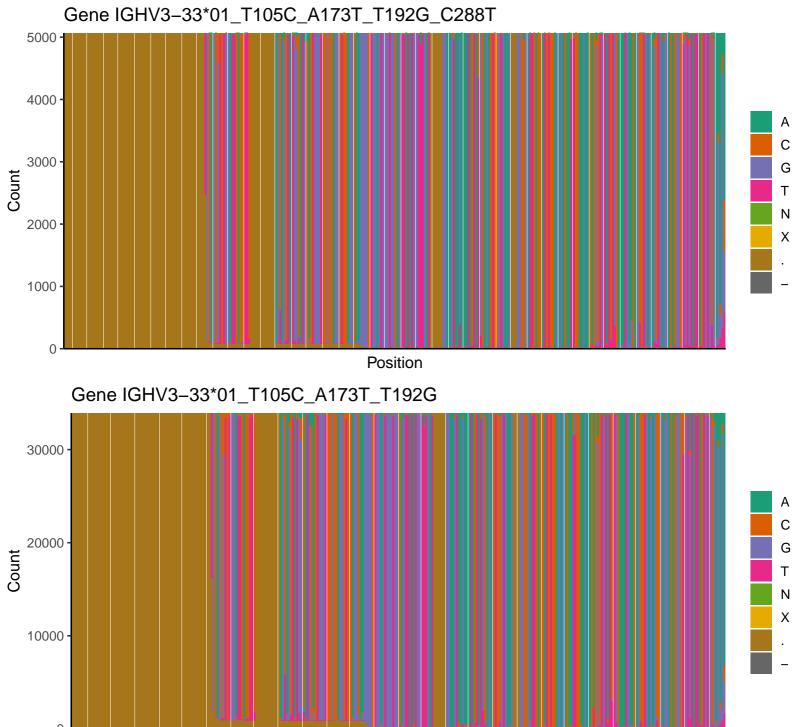
10000

315 G

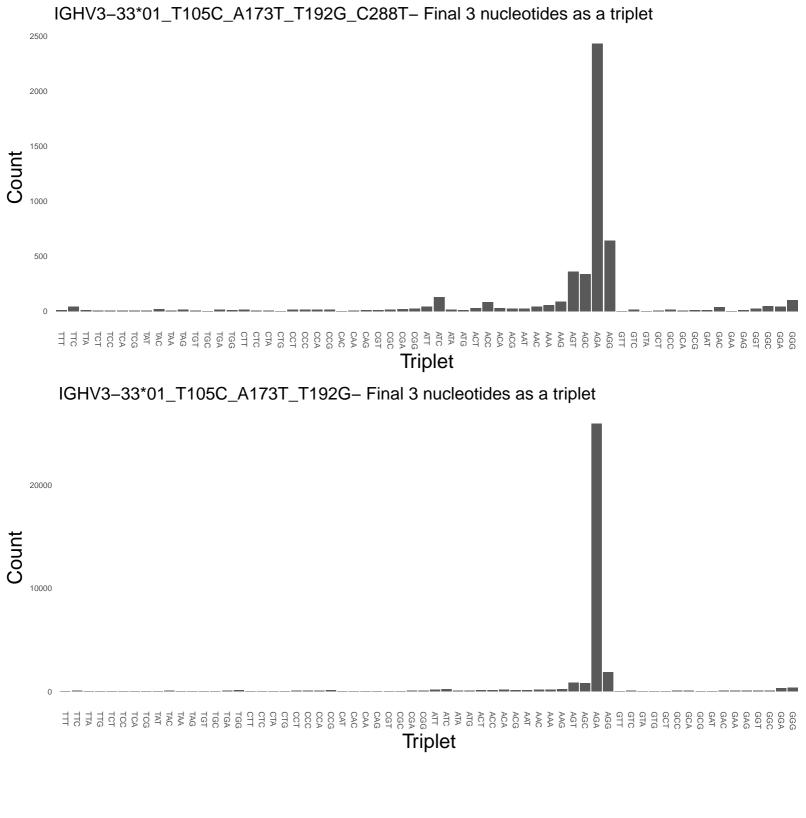
A G Position

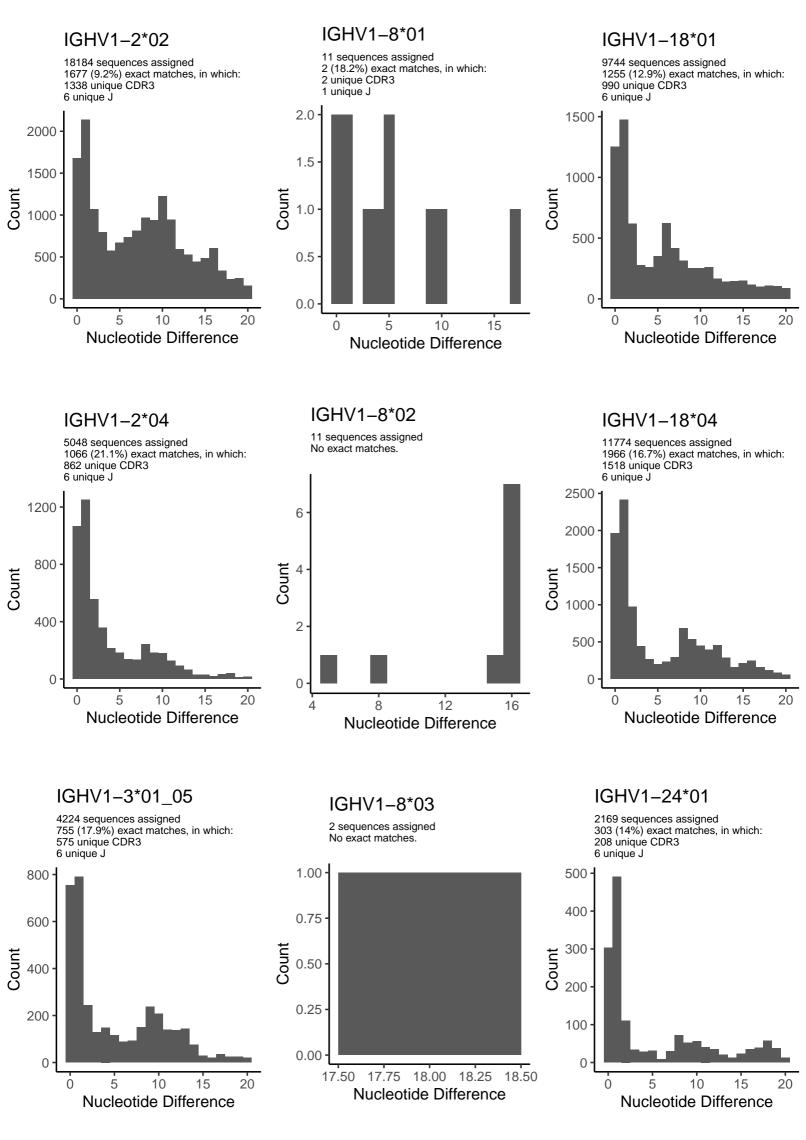
G

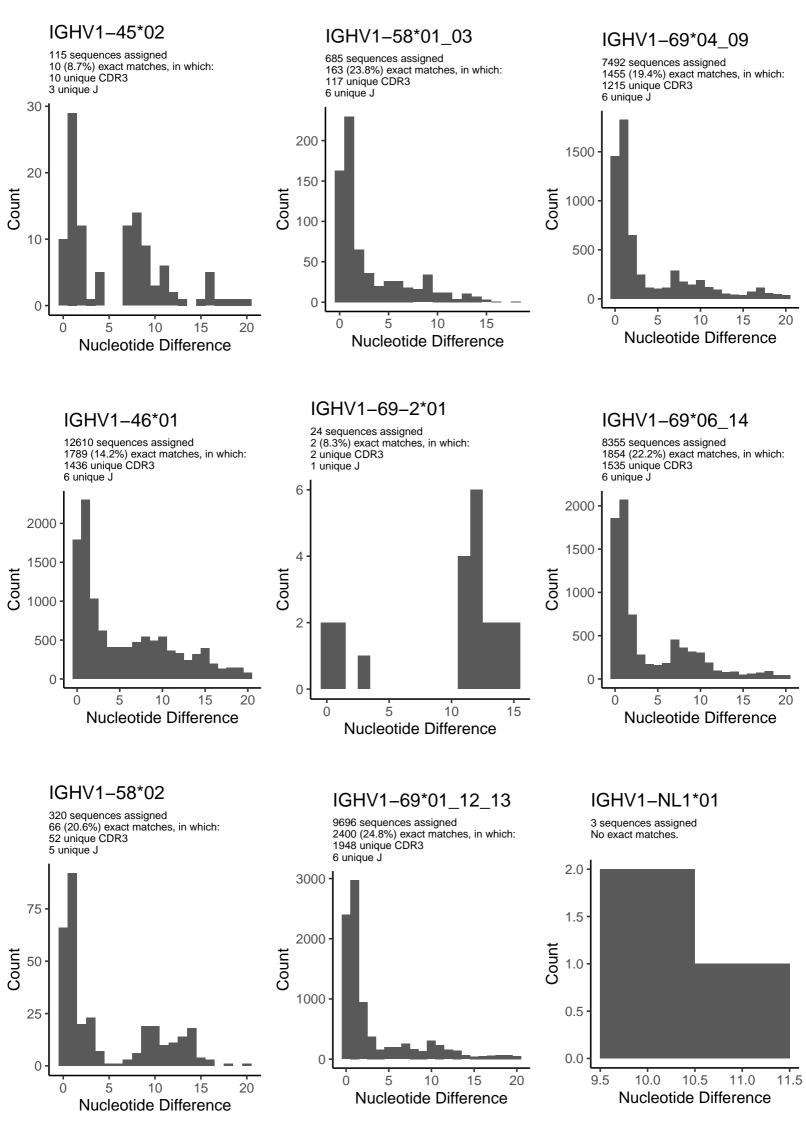
С



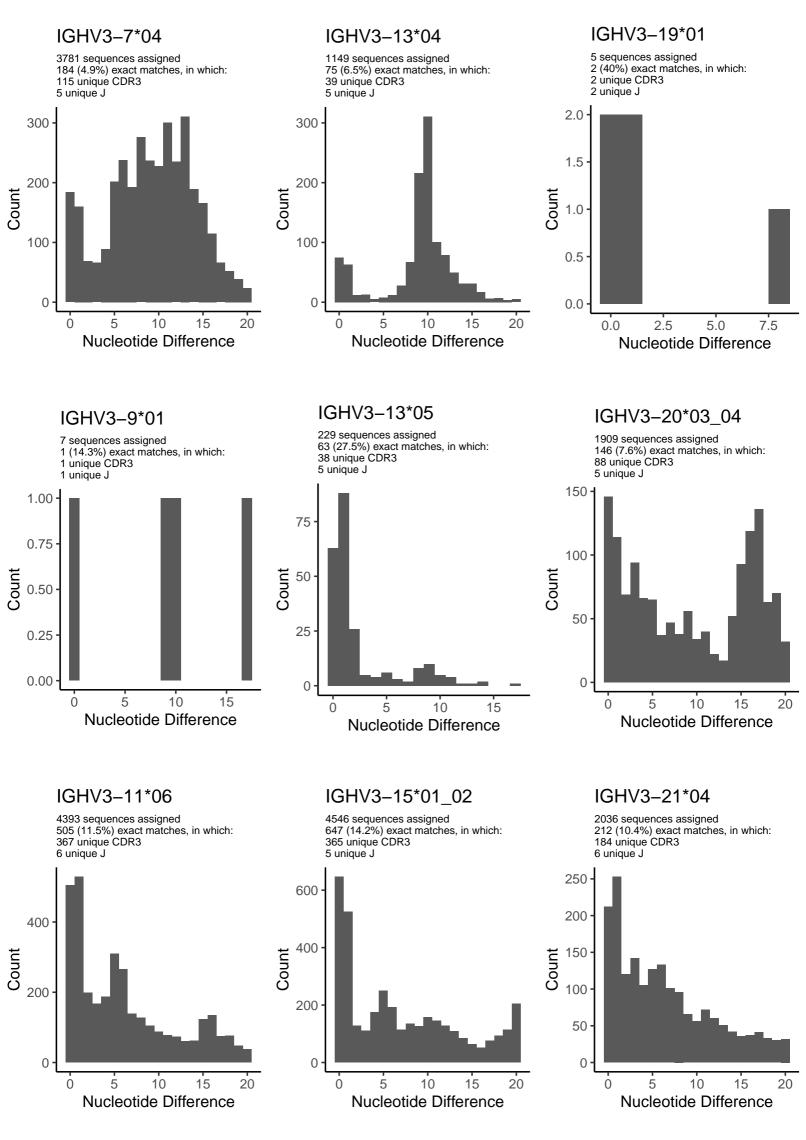
Position

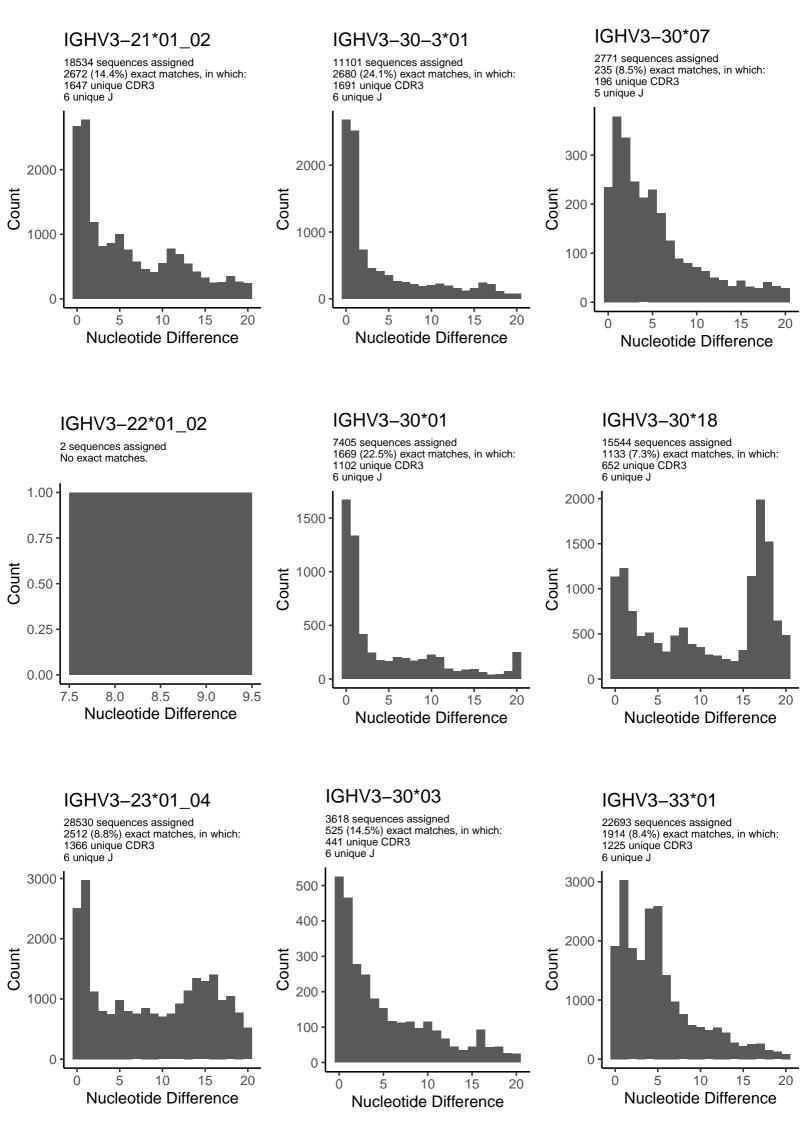


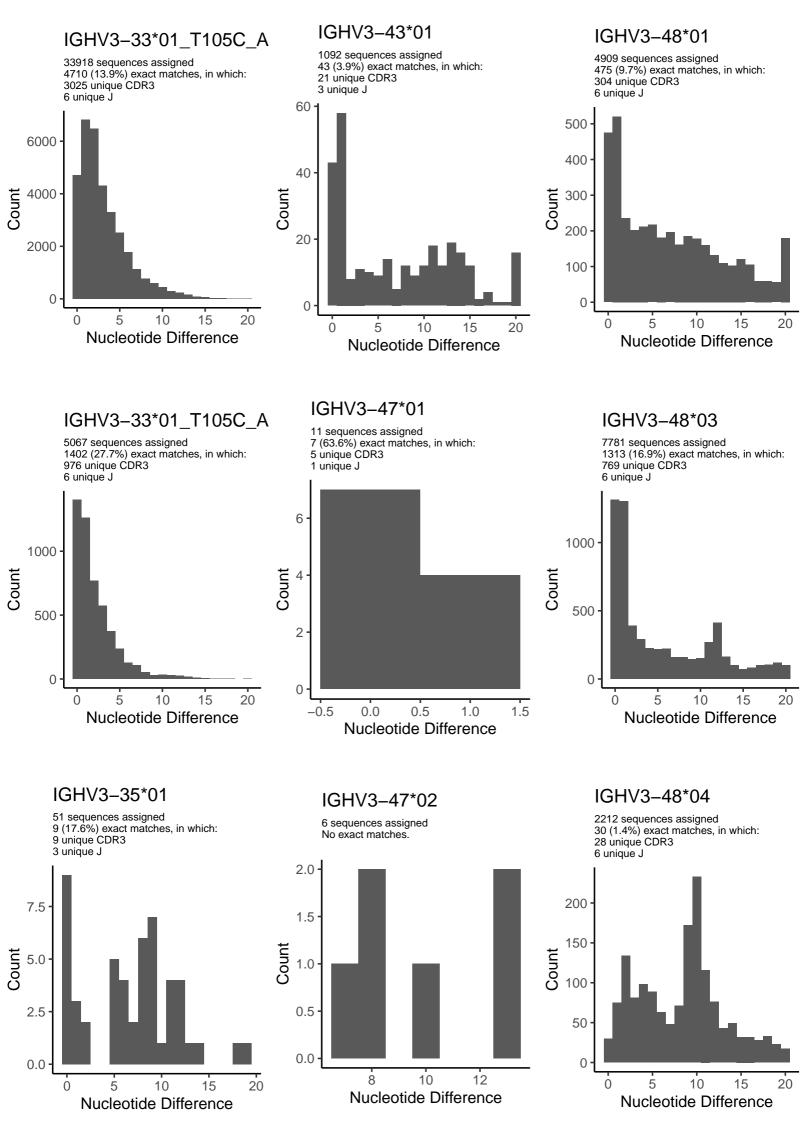


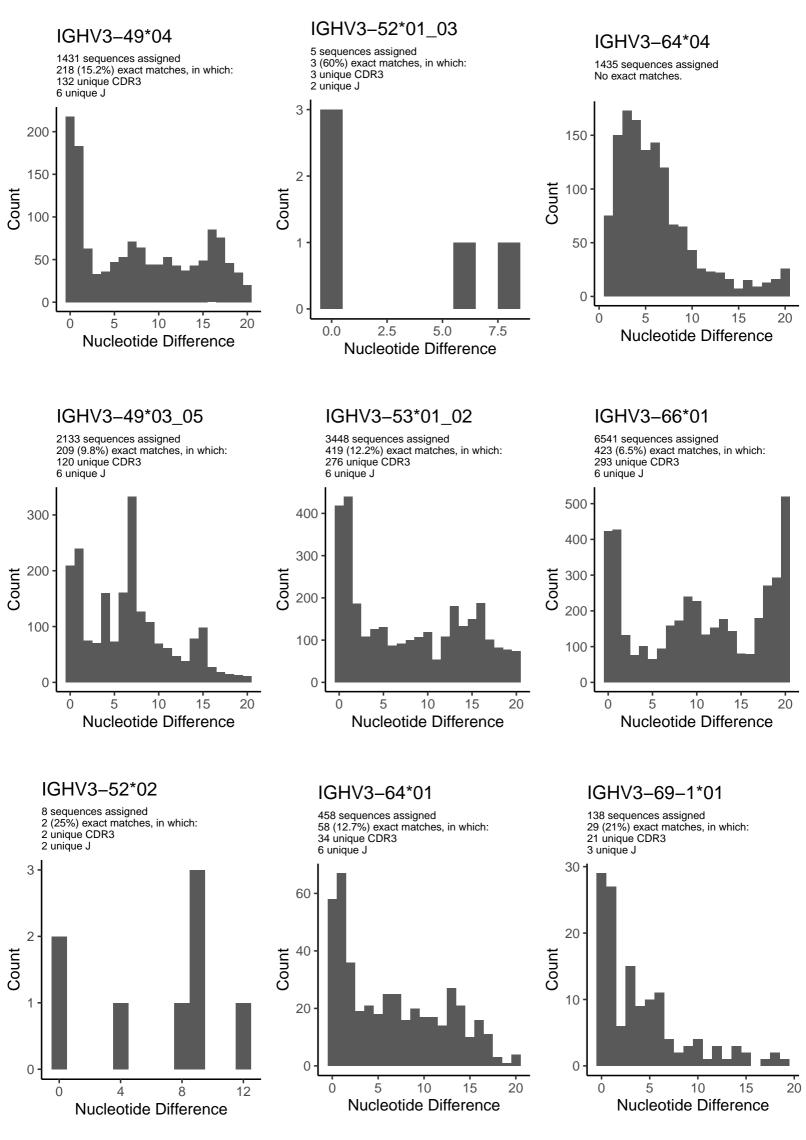


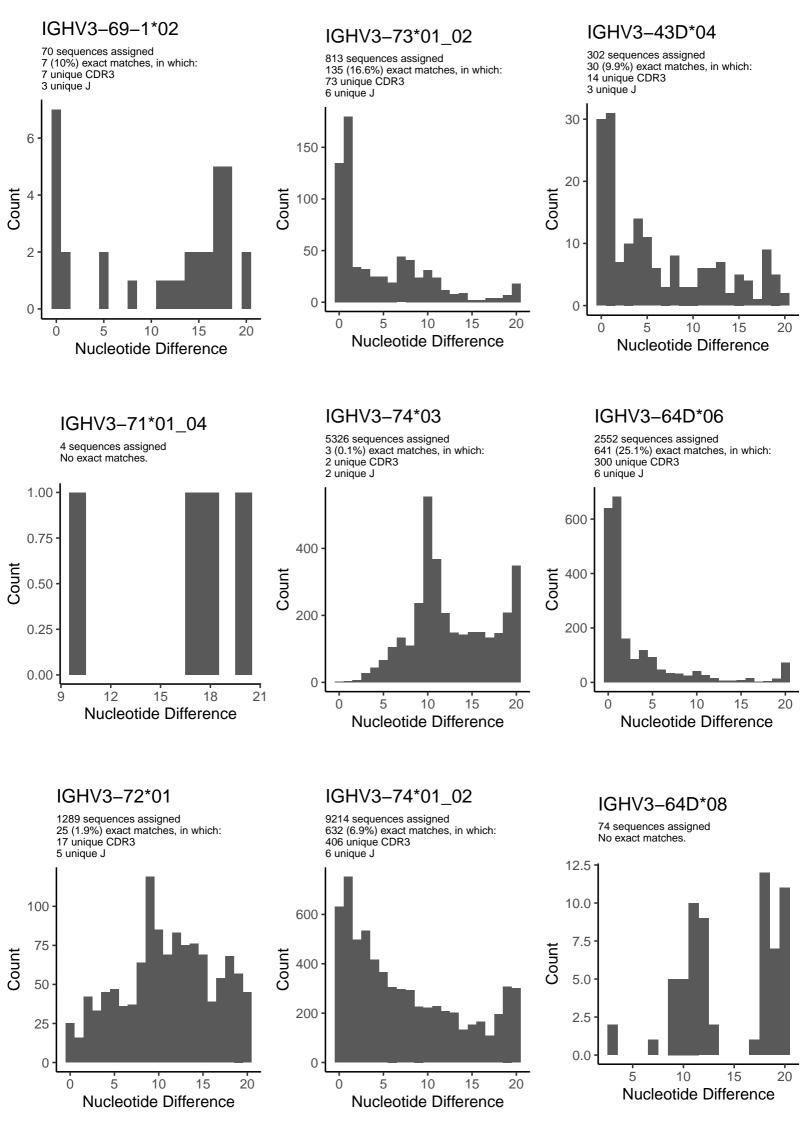
IGHV2-5*02 IGHV2-70*04 IGHV2-70D*14 6706 sequences assigned 799 sequences assigned 2 sequences assigned 314 (4.7%) exact matches, in which: 80 (10%) exact matches, in which: 58 unique CDR3 No exact matches. 220 unique CDR3 6 unique J 5 unique J 1.00 150 750 0.75 100 Count 500 0.50 50 0.25 250 0.00 0 0 6 8 10 5 10 15 20 0 5 10 15 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-70*12 IGHV2-26*01 IGHV3-7*01 310 sequences assigned 1 (0.3%) exact matches, in which: 1970 sequences assigned 2478 sequences assigned 140 (5.6%) exact matches, in which: 311 (15.8%) exact matches, in which: 1 unique CDR3 203 unique CDR3 122 unique CDR3 1 unique J 6 unique J 6 unique J 600 200 60 150 400 Count Count Count 40 100 200 20 50 0 0 0 20 10 15 5 10 20 0 5 0 15 0 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-70*11_15 IGHV2-70*01 IGHV3-7*03 718 sequences assigned 1010 sequences assigned 8596 sequences assigned 125 (17.4%) exact matches, in which: 158 (15.6%) exact matches, in which: 677 (7.9%) exact matches, in which: 105 unique CDR3 111 unique CDR3 434 unique CDR3 6 unique J 5 unique J 6 unique J 250 150 600 200 150 100 400 Count Count 100 50 200 50 0 0 0 10 15 20 5 10 15 20 10 15 20 0 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

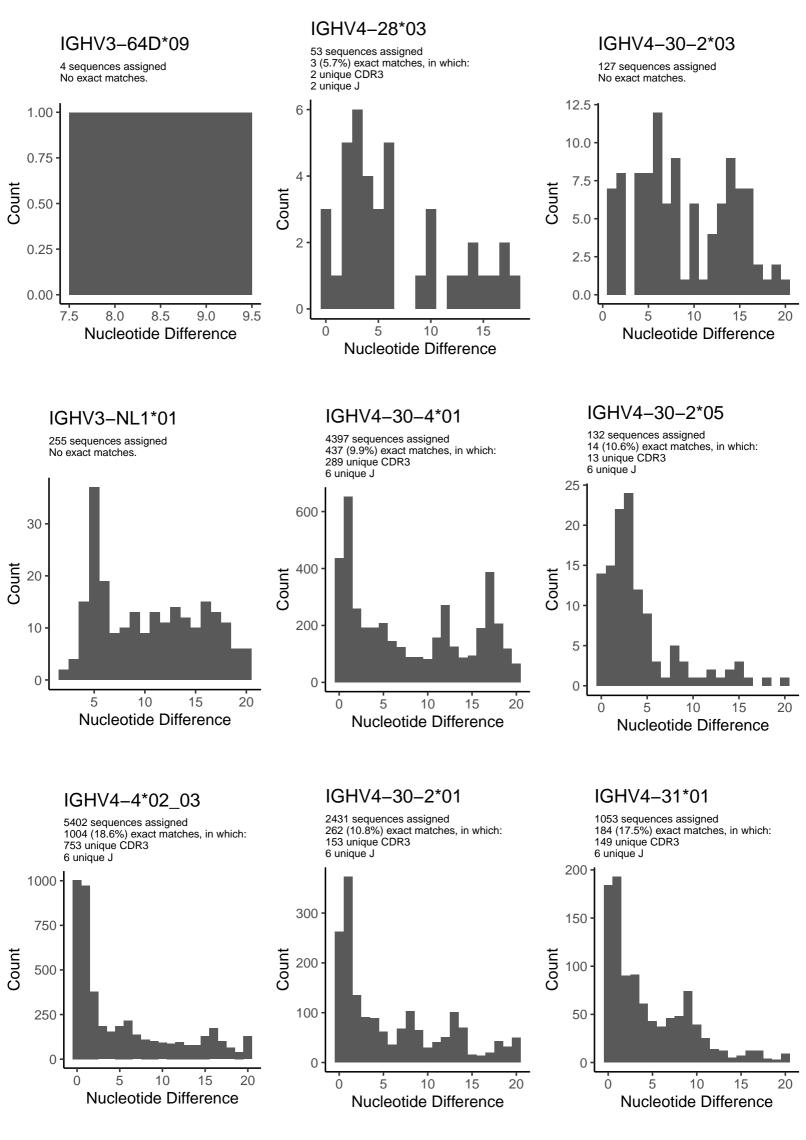


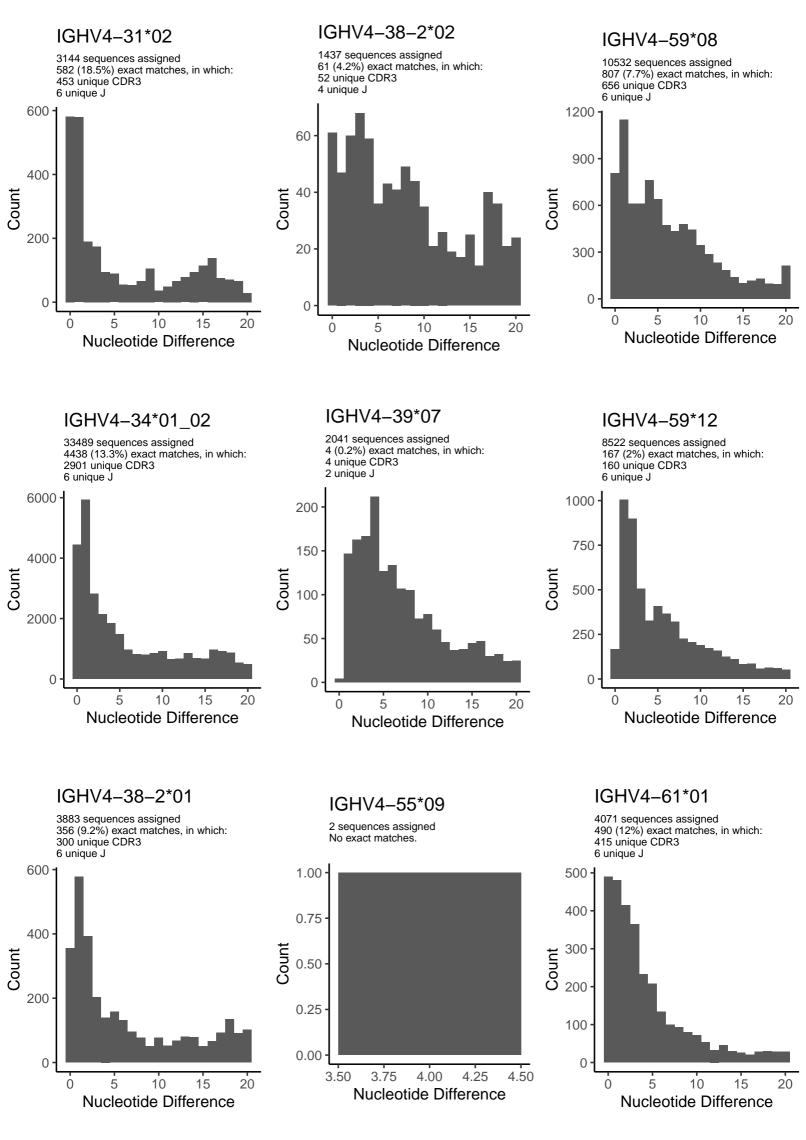


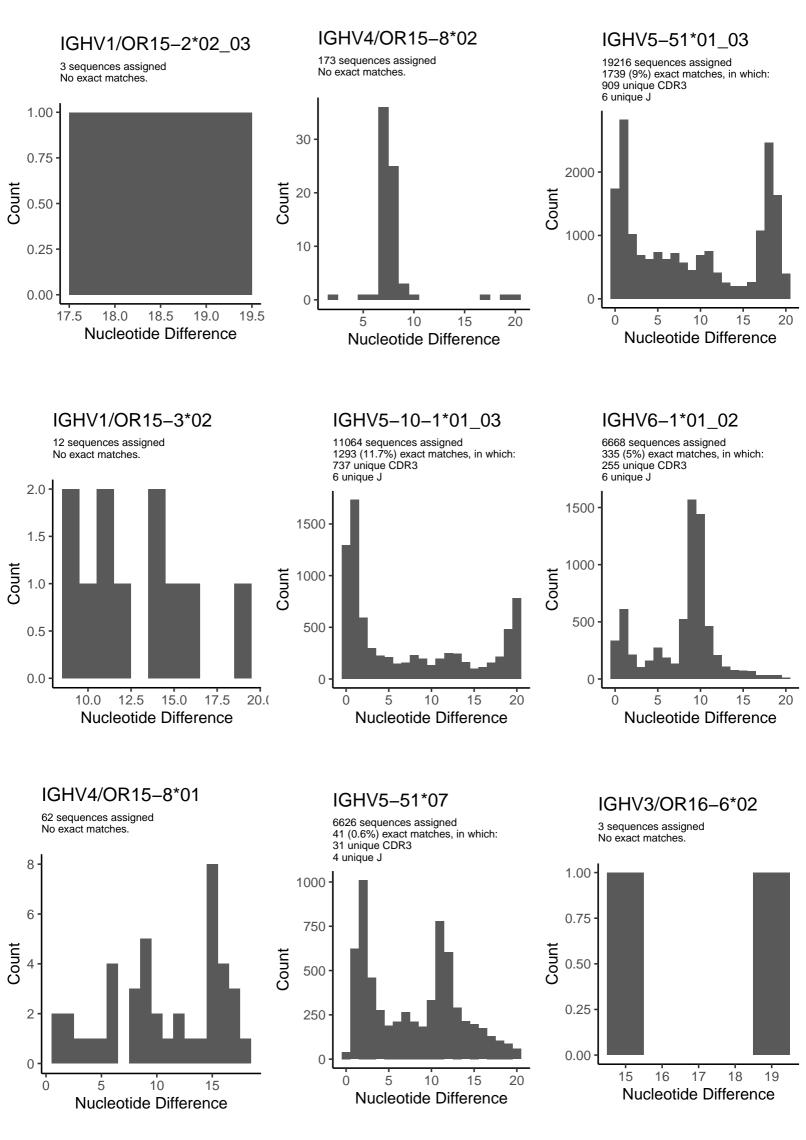










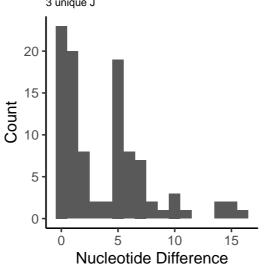


1 sequences assigned No exact matches. 1.00 0.75 0.50 0.25 0.00 19.50 19.75 20.00 20.25 20.50 Nucleotide Difference

IGHV3/OR16-8*01

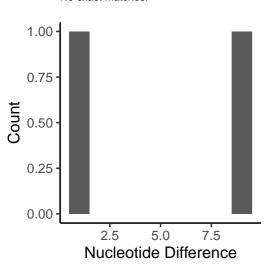
IGHV7-4-1*01

101 sequences assigned 23 (22.8%) exact matches, in which: 21 unique CDR3 3 unique J



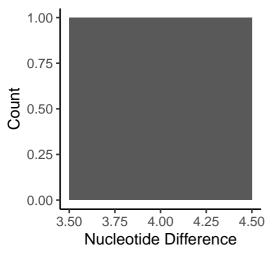
IGHV3/OR16-9*01

2 sequences assigned No exact matches.

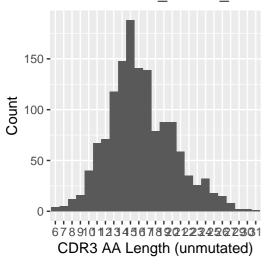


IGHV3/OR16-10*01_03

1 sequences assigned No exact matches.



IGHV3-33*01_T105C_A173T_T192G_C288T



IGHV3-33*01_T105C_A173T_T192G

