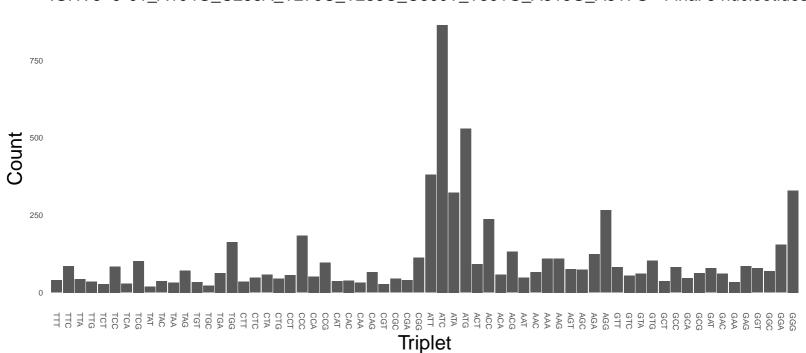
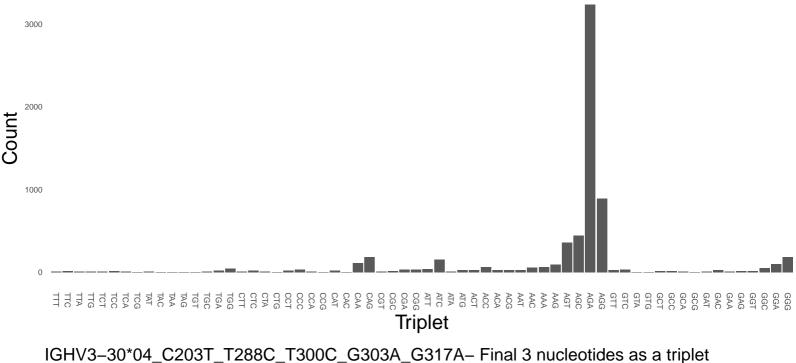
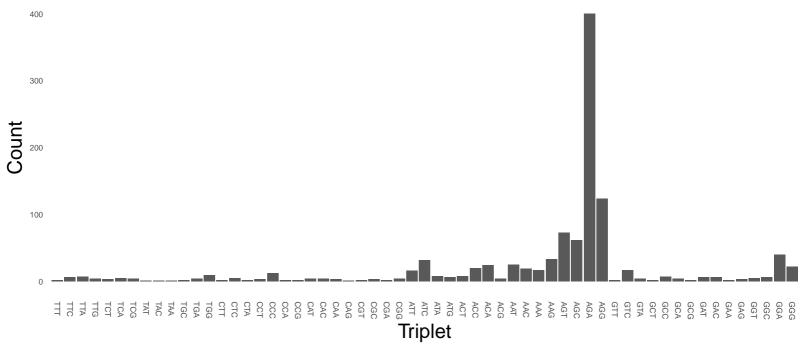


IGHV3-9*01_A104G_C258A_T279C_T288C_C300T_T301G_A315G_A317G- Final 3 nucleotides

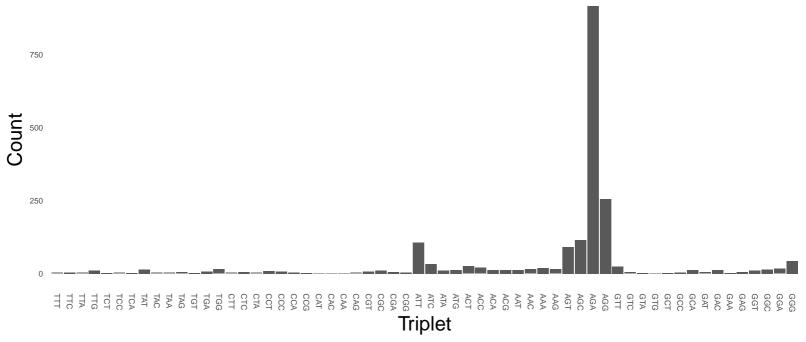


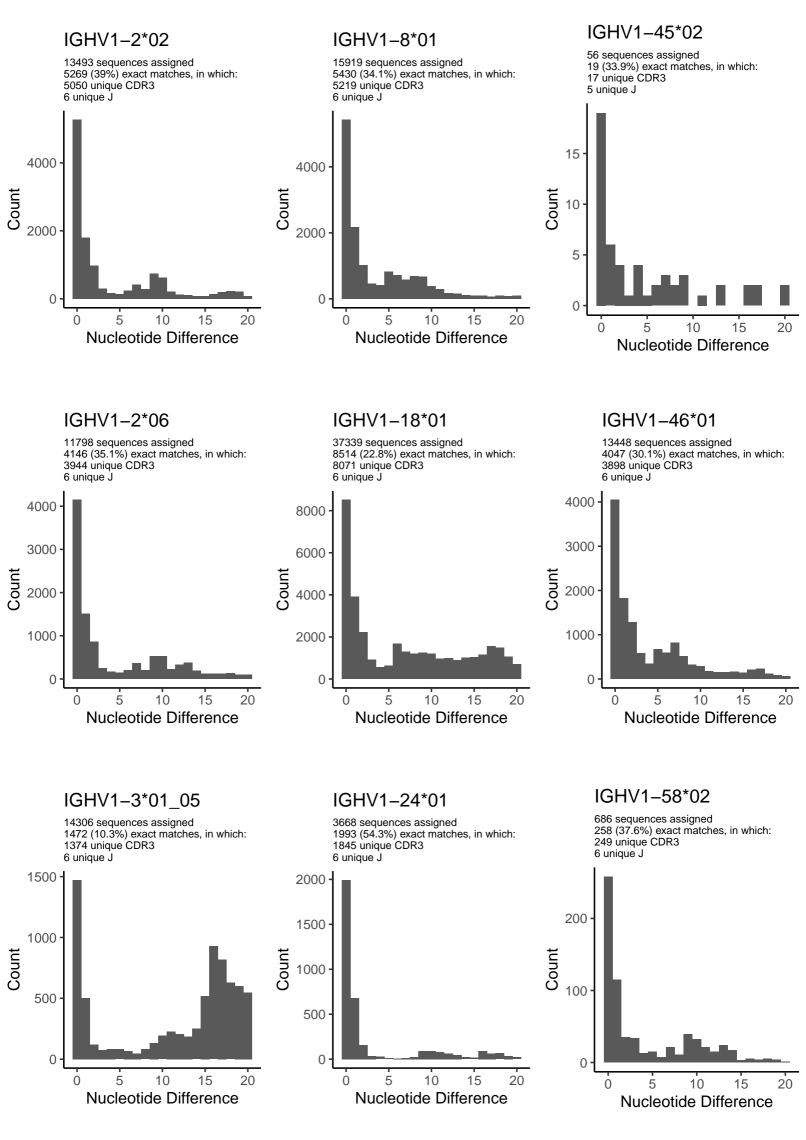
IGHV3-30*04_C203T- Final 3 nucleotides as a triplet

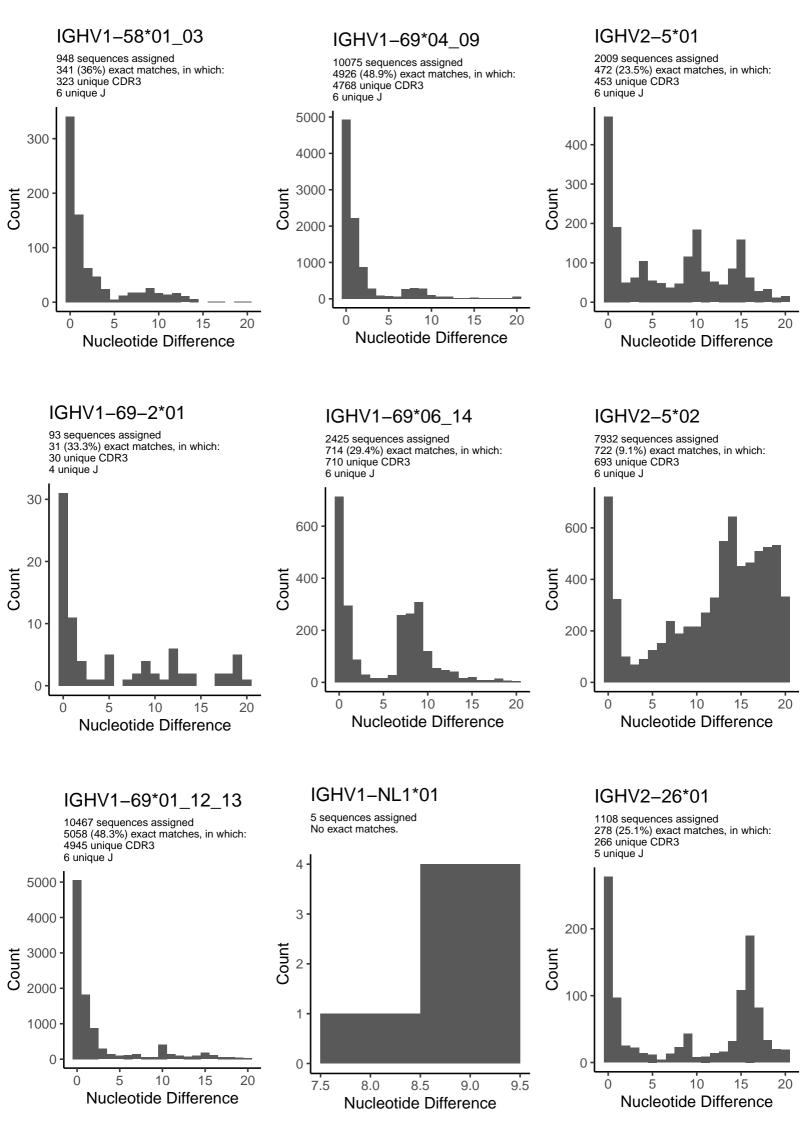


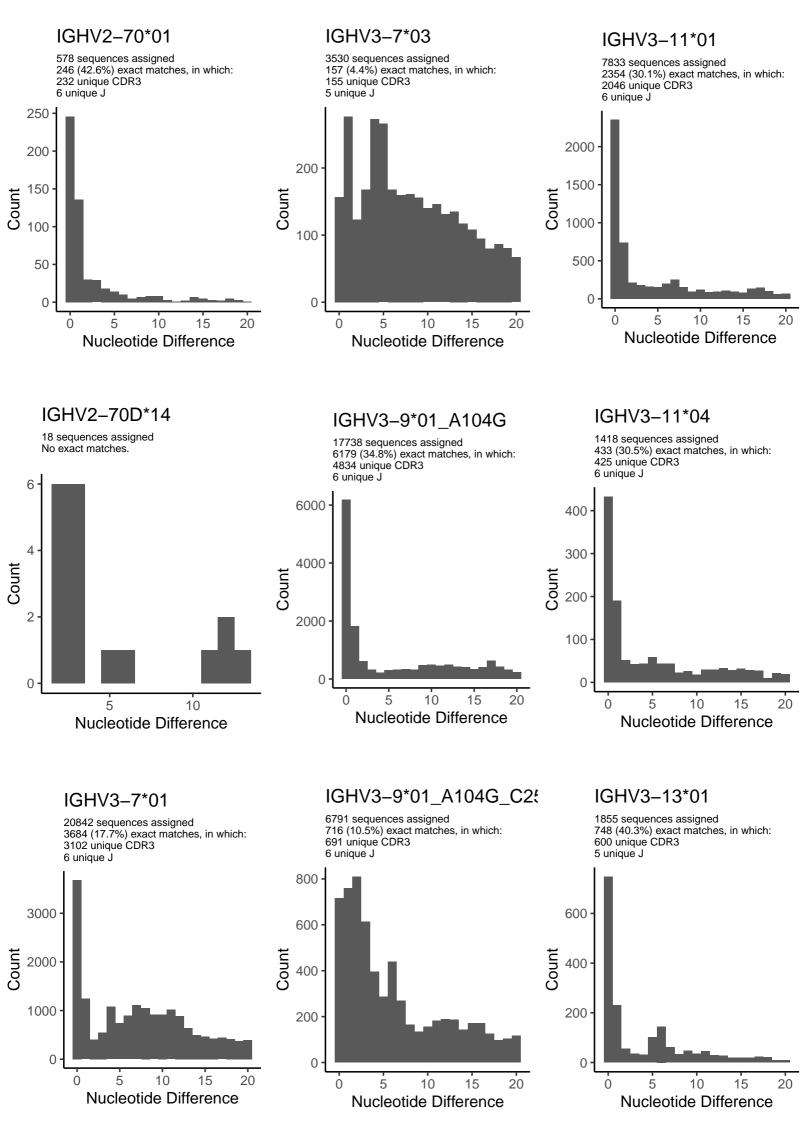


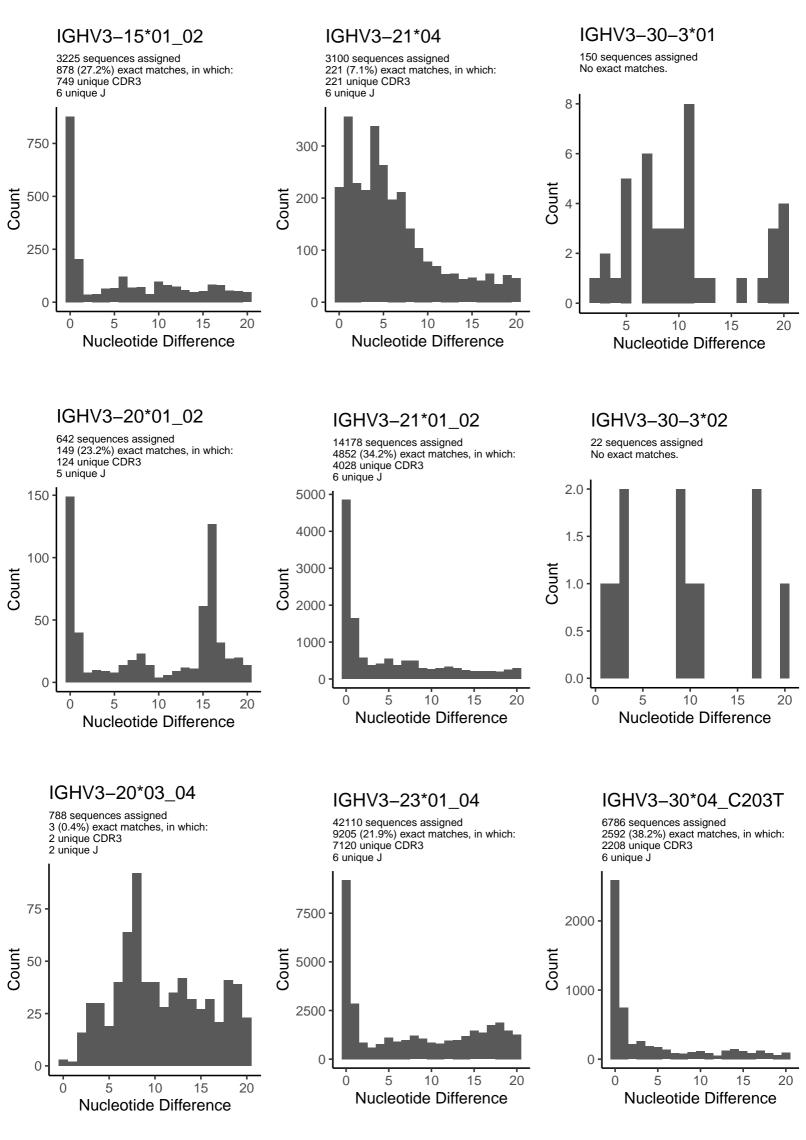
IGHV3-30*07_A150G_C203T- Final 3 nucleotides as a triplet

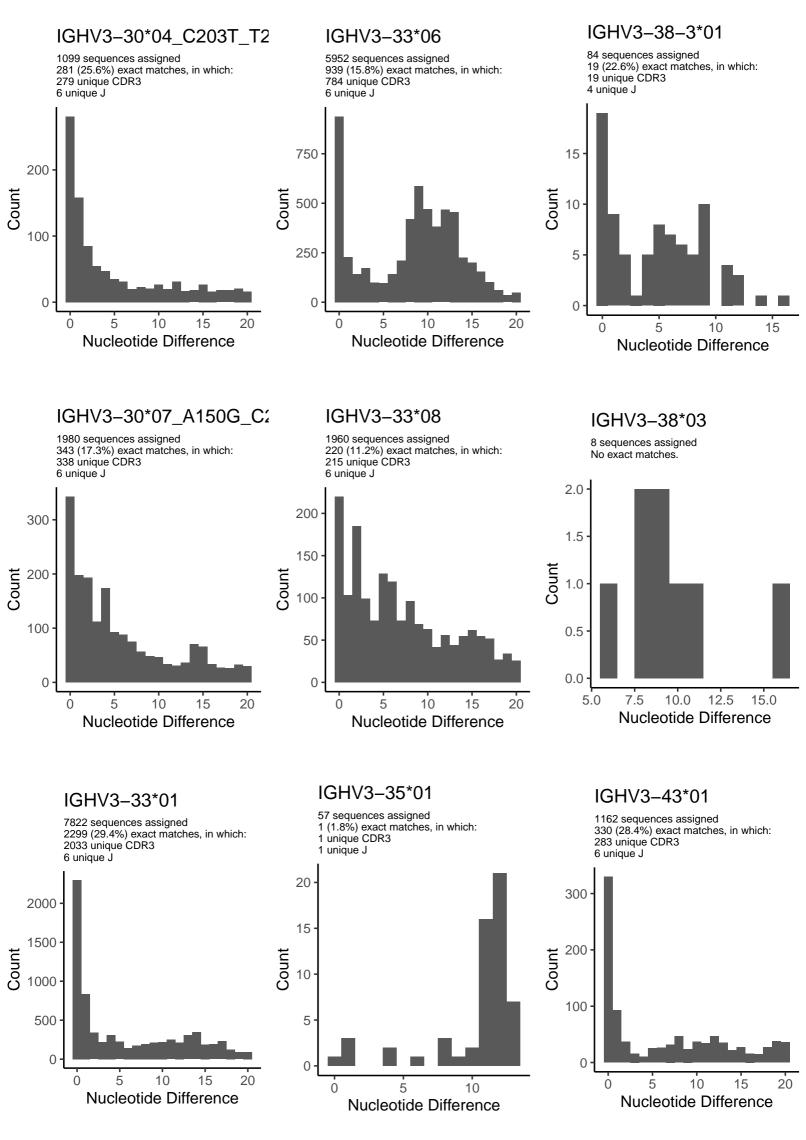


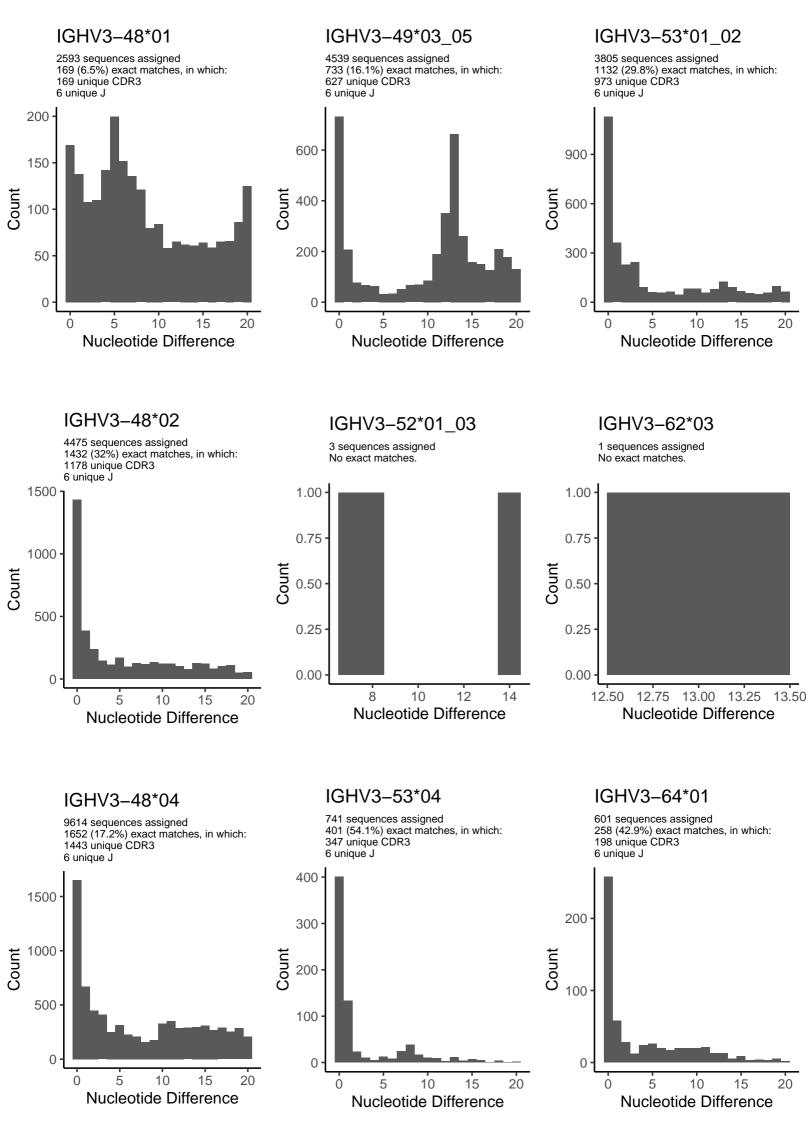


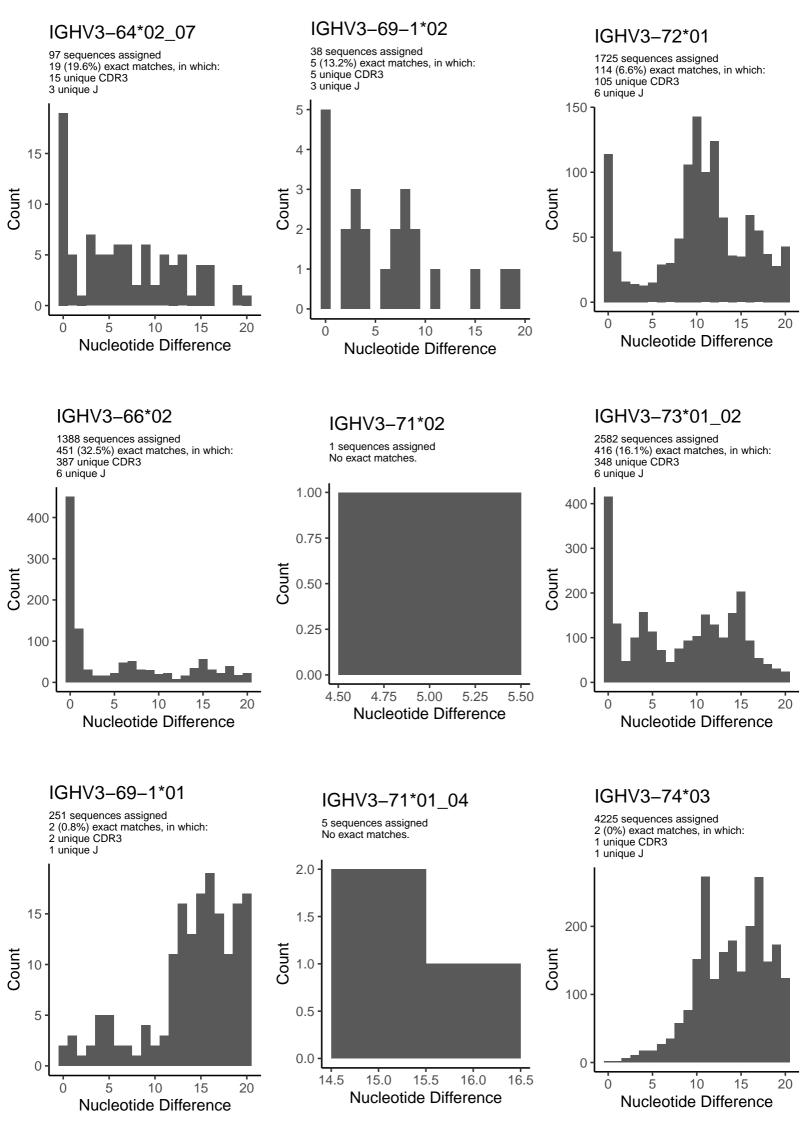




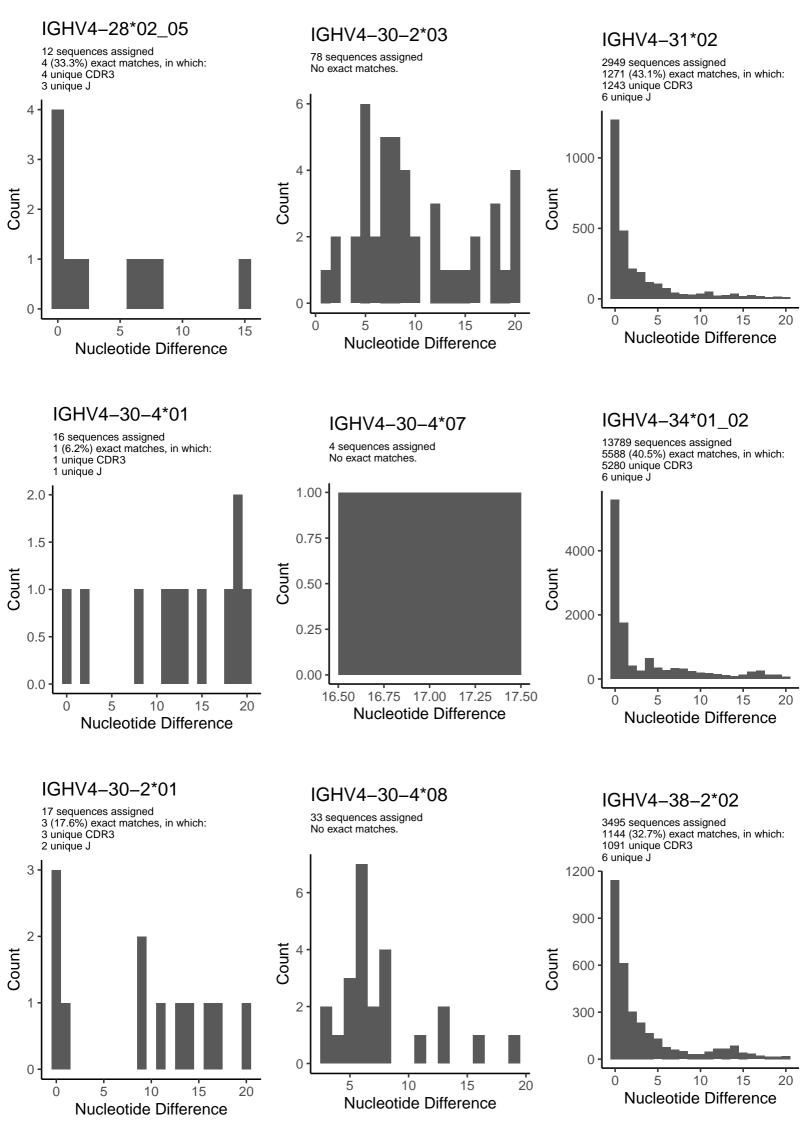


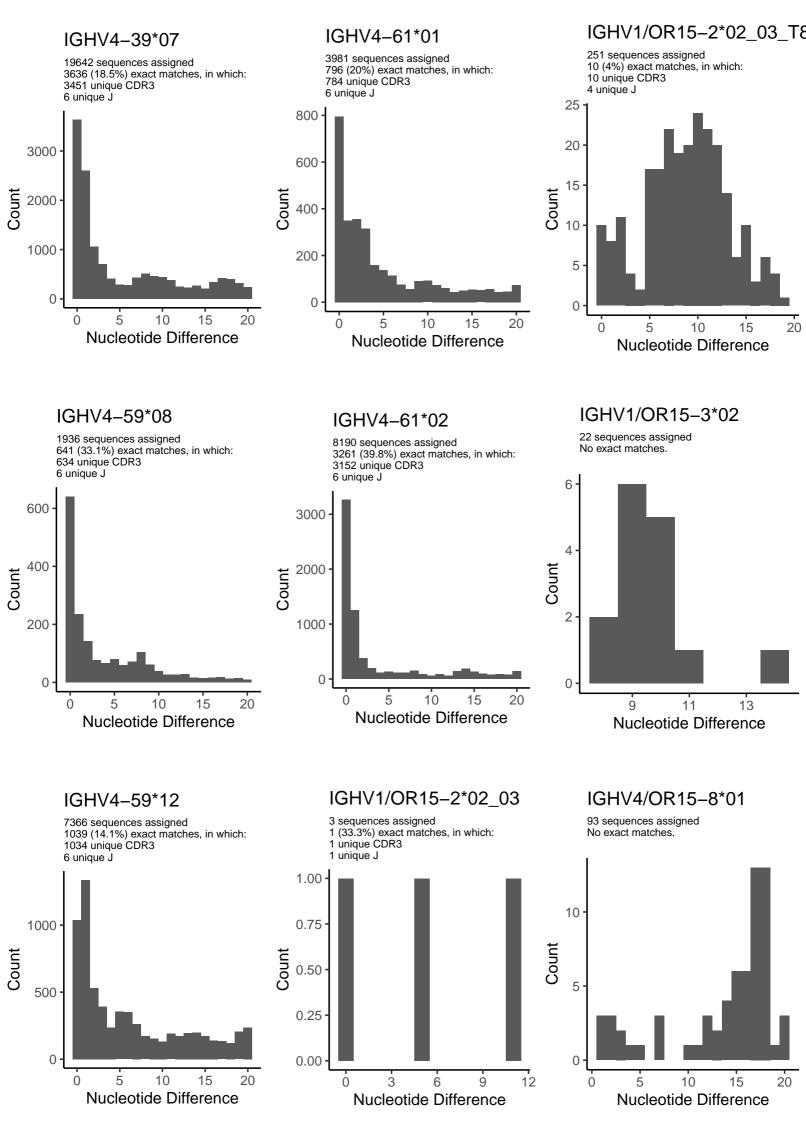


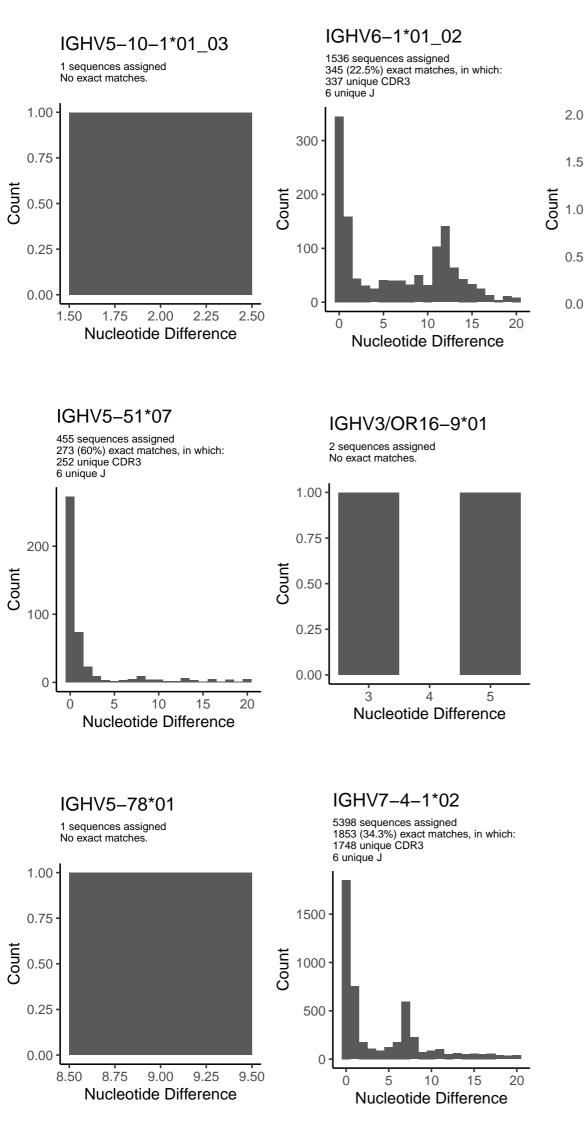




IGHV3-74*01_02 IGHV4-4*02 03 IGHV3-64D*08 5414 sequences assigned 942 (17.4%) exact matches, in which: 12171 sequences assigned 1157 (9.5%) exact matches, in which: 1 sequences assigned No exact matches. 746 unique CDR3 1114 unique CDR3 6 unique J 6 unique J 1.00 -1500 750 0.75 1000 Count 0.50 Count Count 500 500 0.25 250 0.00 0 0 10.50 10.75 11.00 11.25 0 10 15 20 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV4-28*03 IGHV3-43D*03 IGHV3-NL1*01 29 sequences assigned 3 (10.3%) exact matches, in which: 3 unique CDR3 754 sequences assigned 215 (28.5%) exact matches, in which: 137 sequences assigned No exact matches. 187 unique CDR3 2 unique J 6 unique J 200 7.5 3 150 Count 5.0 Count 100 2.5 50 1 0.0 0 0 10 15 20 20 10 15 0 5 15 20 0 5 10 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV4-28*01_07 IGHV4-4*07 IGHV3-64D*06 18 sequences assigned 20717 sequences assigned 2941 (14.2%) exact matches, in which: 8 (44.4%) exact matches, in which: 6 sequences assigned 8 unique CDR3 No exact matches. 2801 unique CDR3 2 unique J 6 unique J 1.00 3000 0.75 6 2000 Count 0.50 Count 1000 0.25 2 0.00 0 0 5 6 10 20 10 5 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference







IGHV7-81*01

4 sequences assigned

2 unique CDR3

2 unique J

0

3

Nucleotide Difference

2 (50%) exact matches, in which:

9

