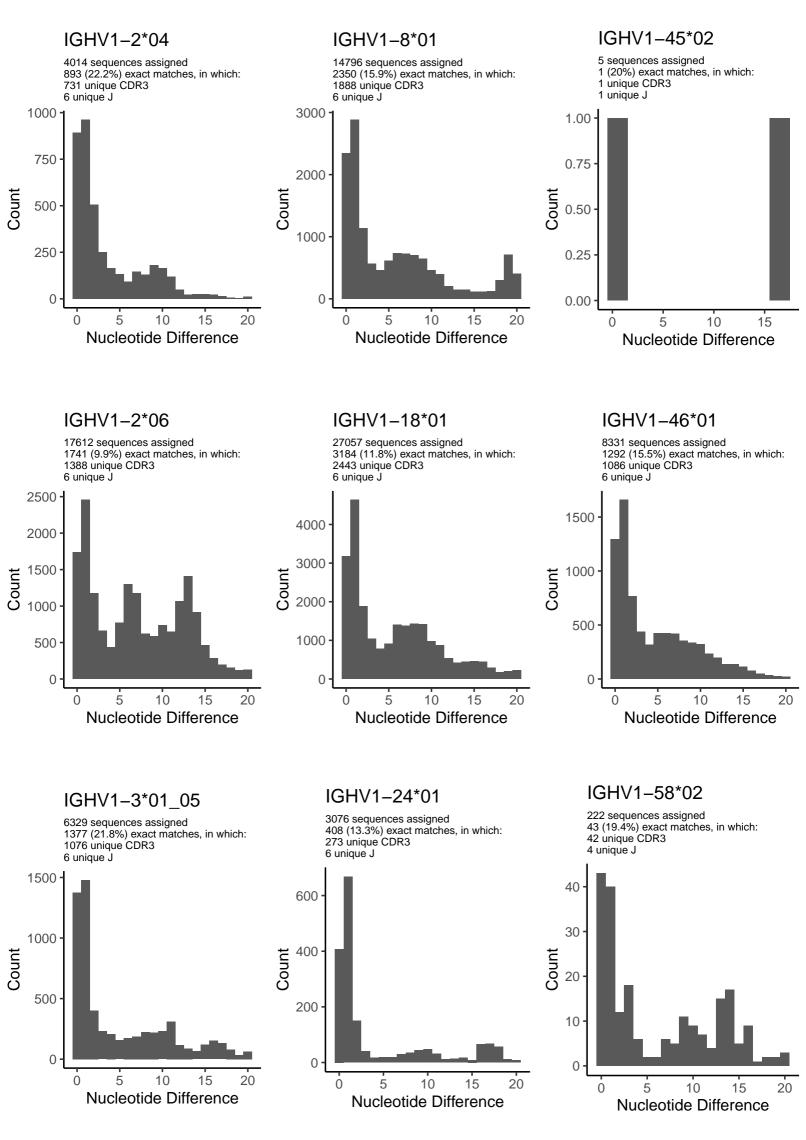
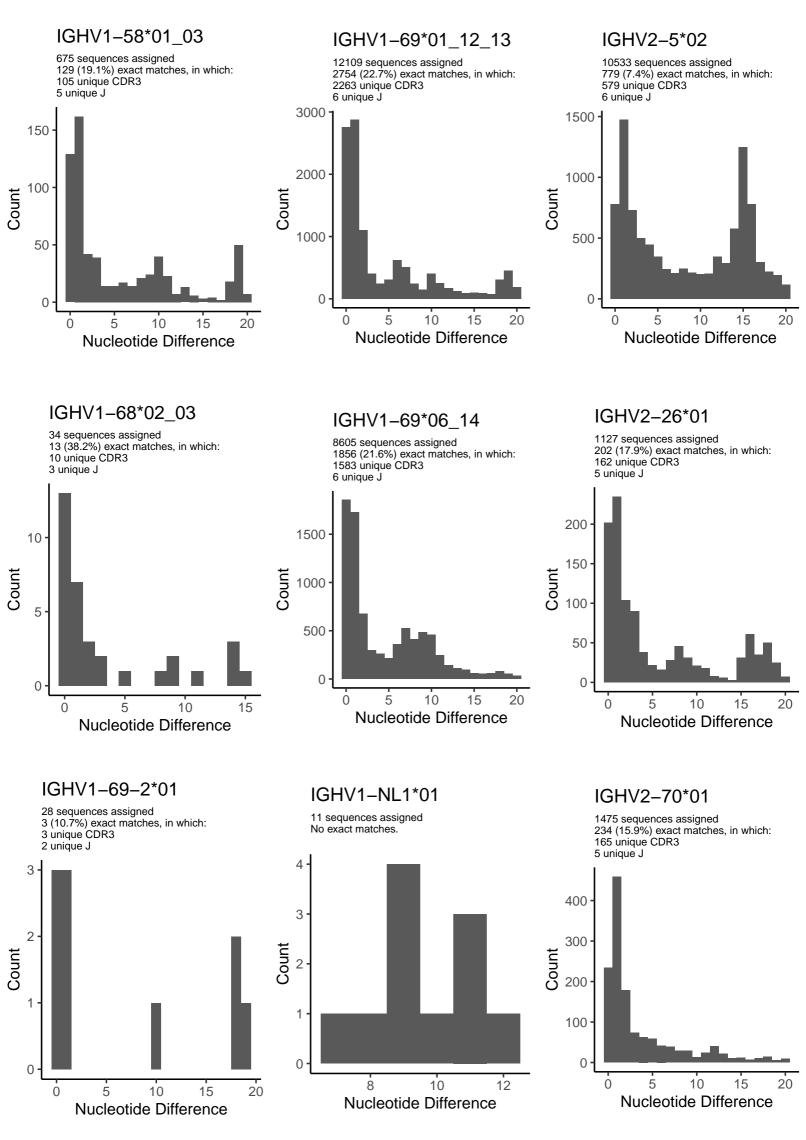


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet

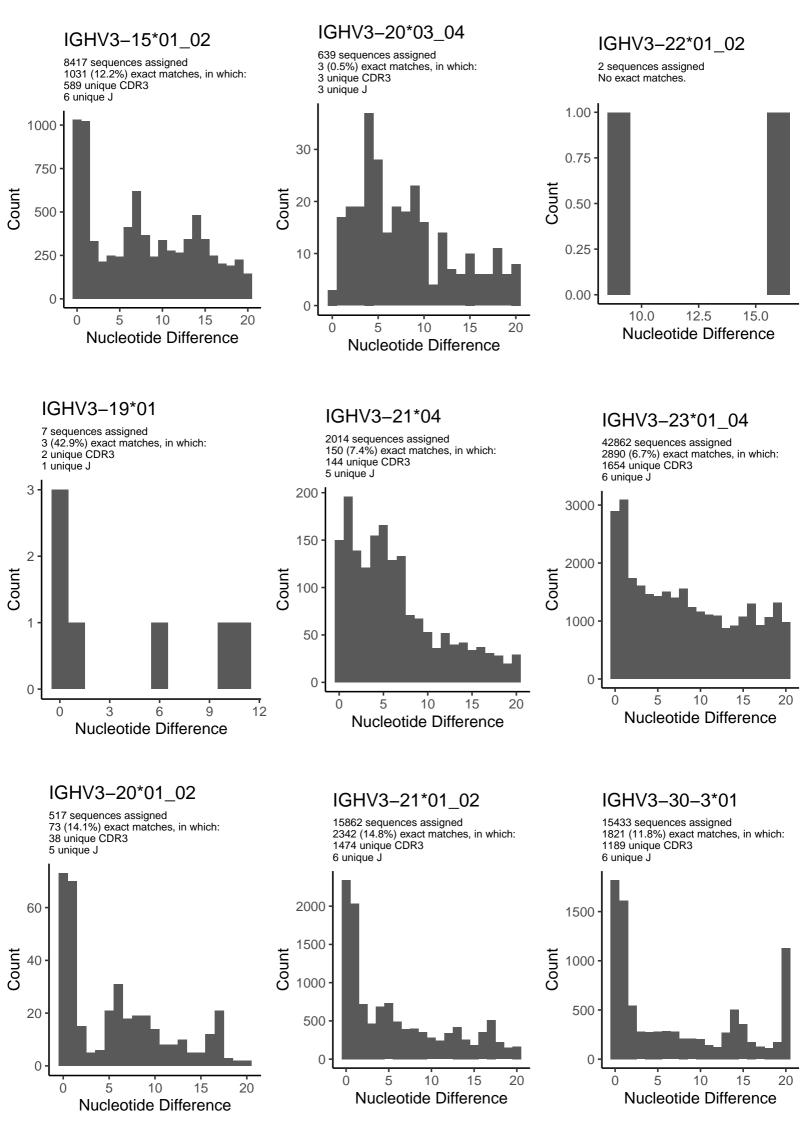
Triplet

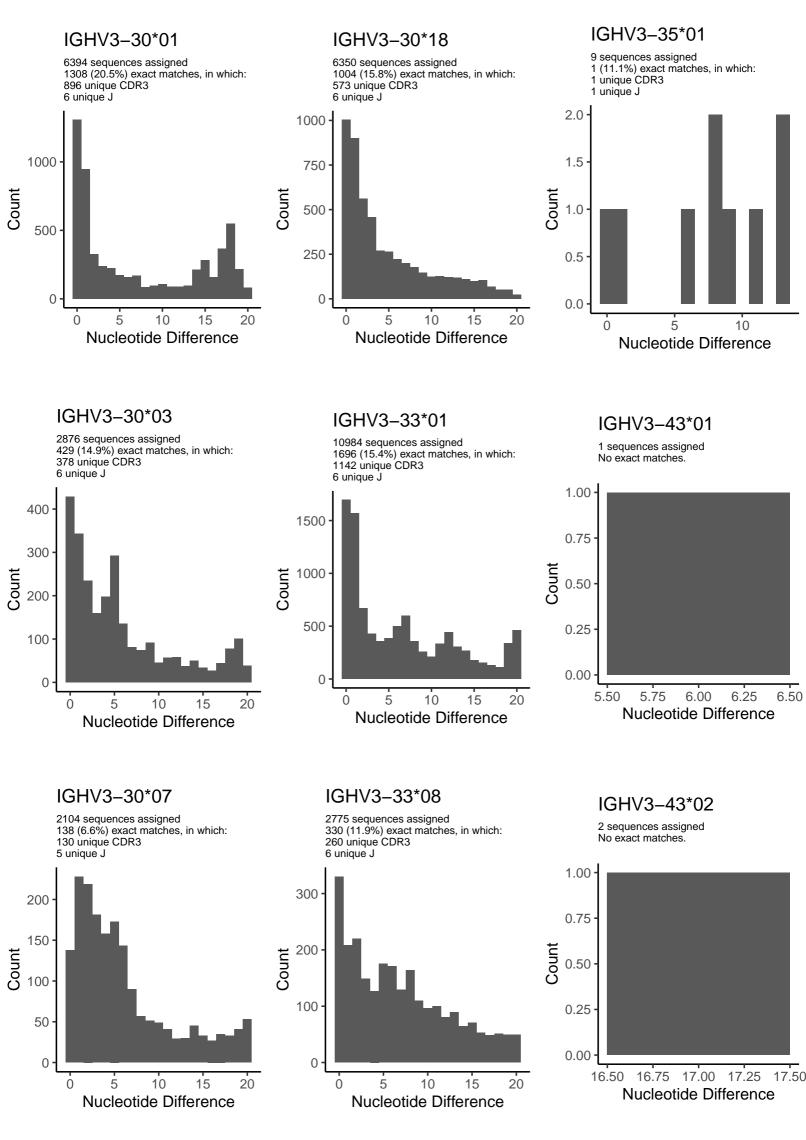
Count

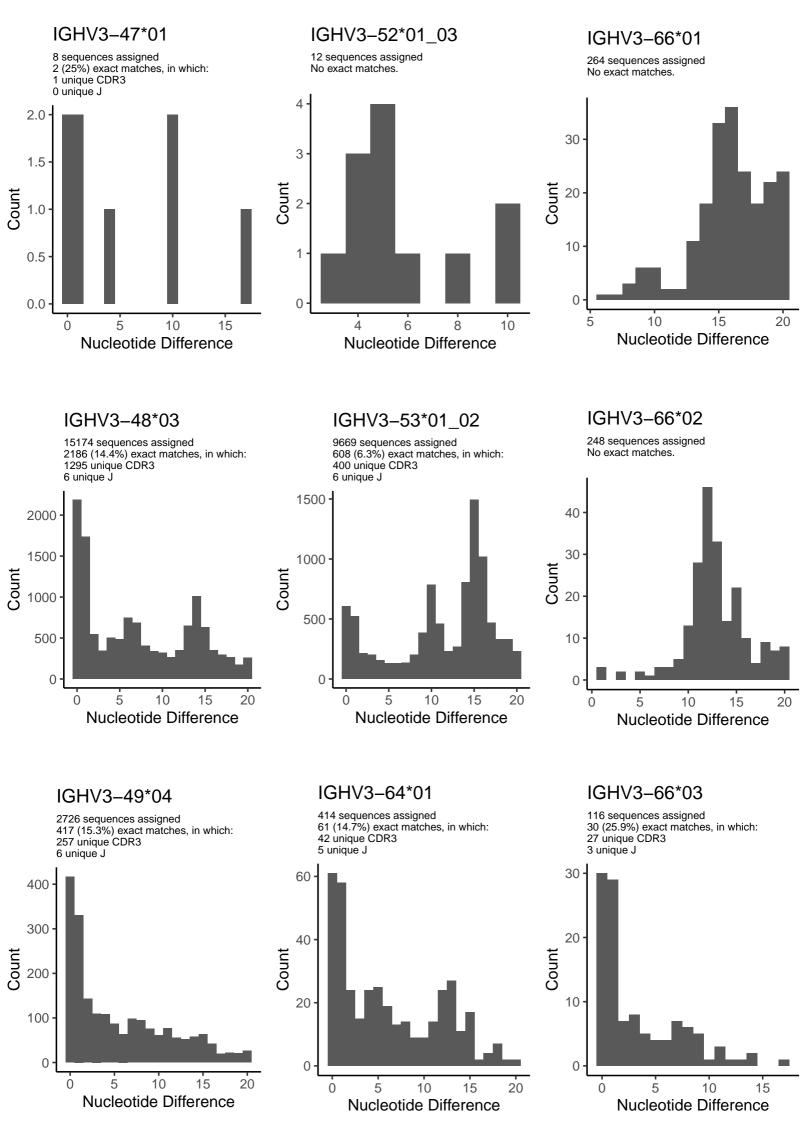


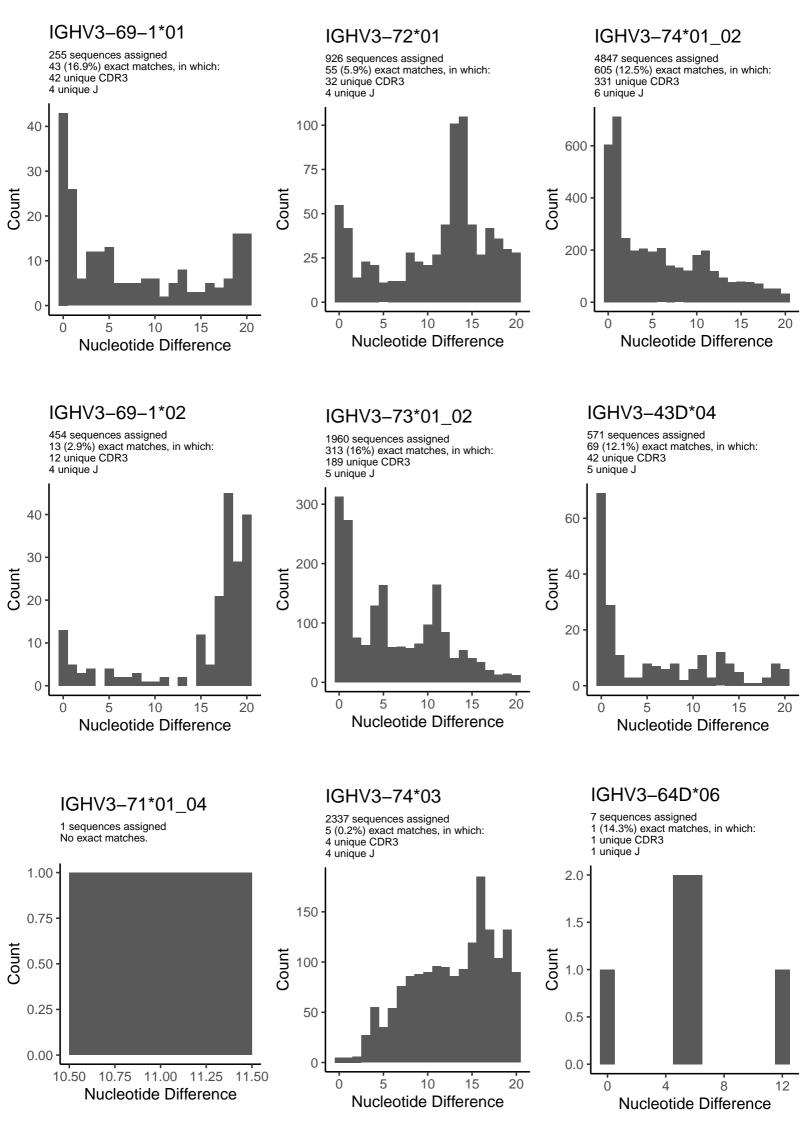


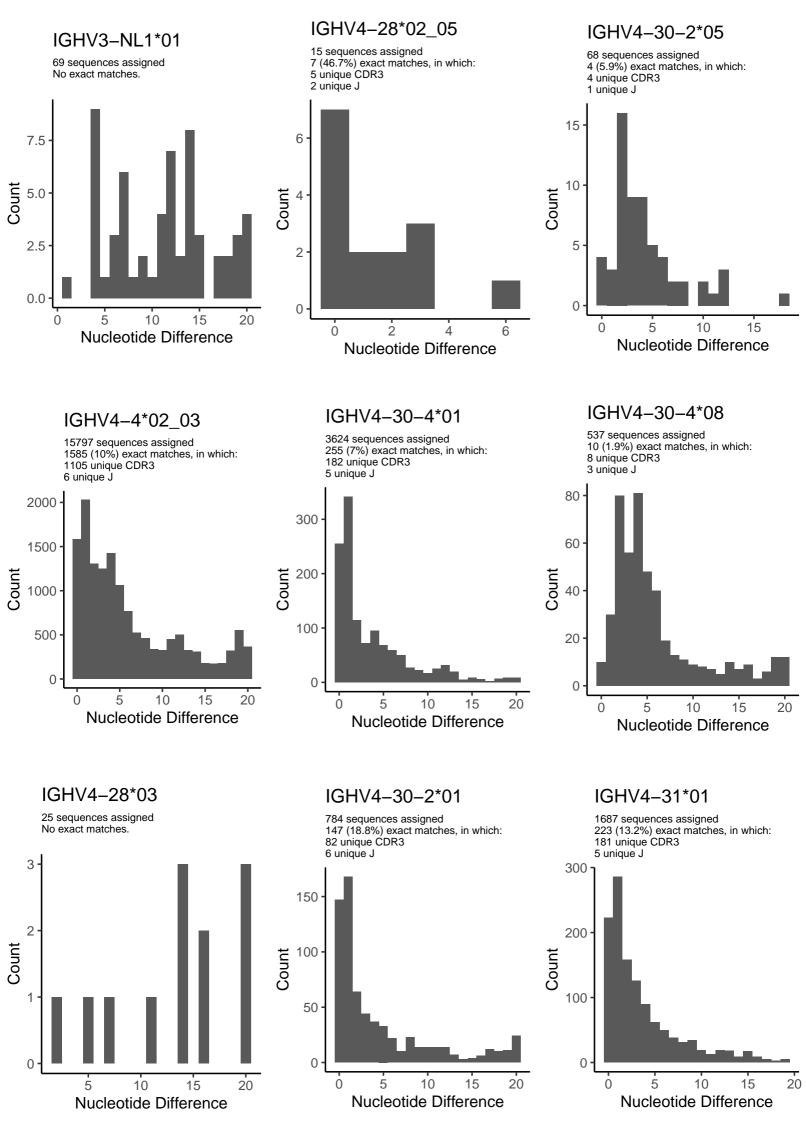
IGHV2-70*04 IGHV3-7*01 IGHV3-11*01 1823 sequences assigned 239 (13.1%) exact matches, in which: 21714 sequences assigned 2071 (9.5%) exact matches, in which: 8524 sequences assigned 1313 (15.4%) exact matches, in which: 173 unique CDR3 1357 unique CDR3 864 unique CDR3 5 unique J 6 unique J 6 unique J 2000 400 1000 1500 300 Count Count 1000 500 500 100 0 0 0 10 0 5 15 20 0 10 5 10 15 20 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV2-70*12 IGHV3-7*03 IGHV3-11*04 253 sequences assigned 948 sequences assigned 246 (25.9%) exact matches, in which: 2666 sequences assigned 114 (4.3%) exact matches, in which: 5 (2%) exact matches, in which: 4 unique CDR3 107 unique CDR3 225 unique CDR3 1 unique J 5 unique J 6 unique J 200 250 200 150 40 150 Count 100 100 20 50 50 0 0 0 5 10 15 20 10 15 20 0 0 5 10 15 20 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-13*01 IGHV2-70D*14 IGHV3-9*01 1076 sequences assigned 11716 sequences assigned 2130 (18.2%) exact matches, in which: 7 sequences assigned 226 (21%) exact matches, in which: No exact matches 126 unique CDR3 1198 unique CDR3 6 unique J 6 unique J 2.0 2000 1.5 200 1500 Count 1000 100 0.5 500 0.0 0 0 12 16 10 15 20 10 15 0 20 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

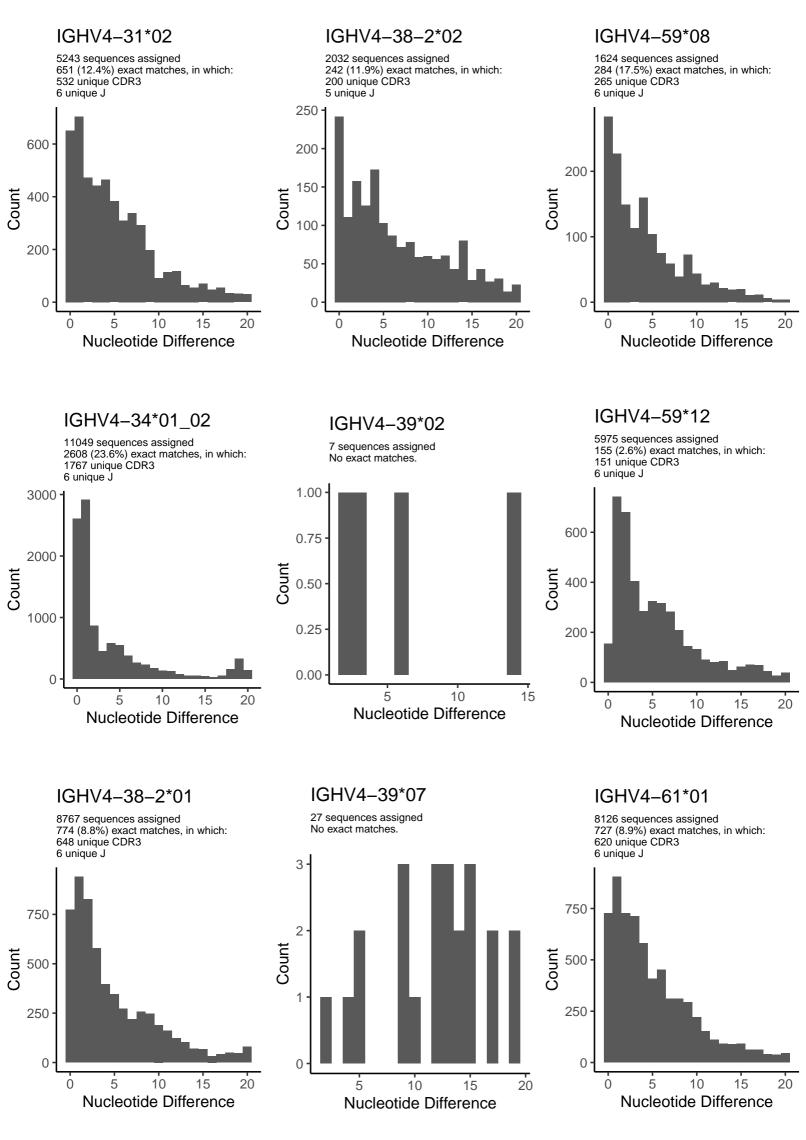


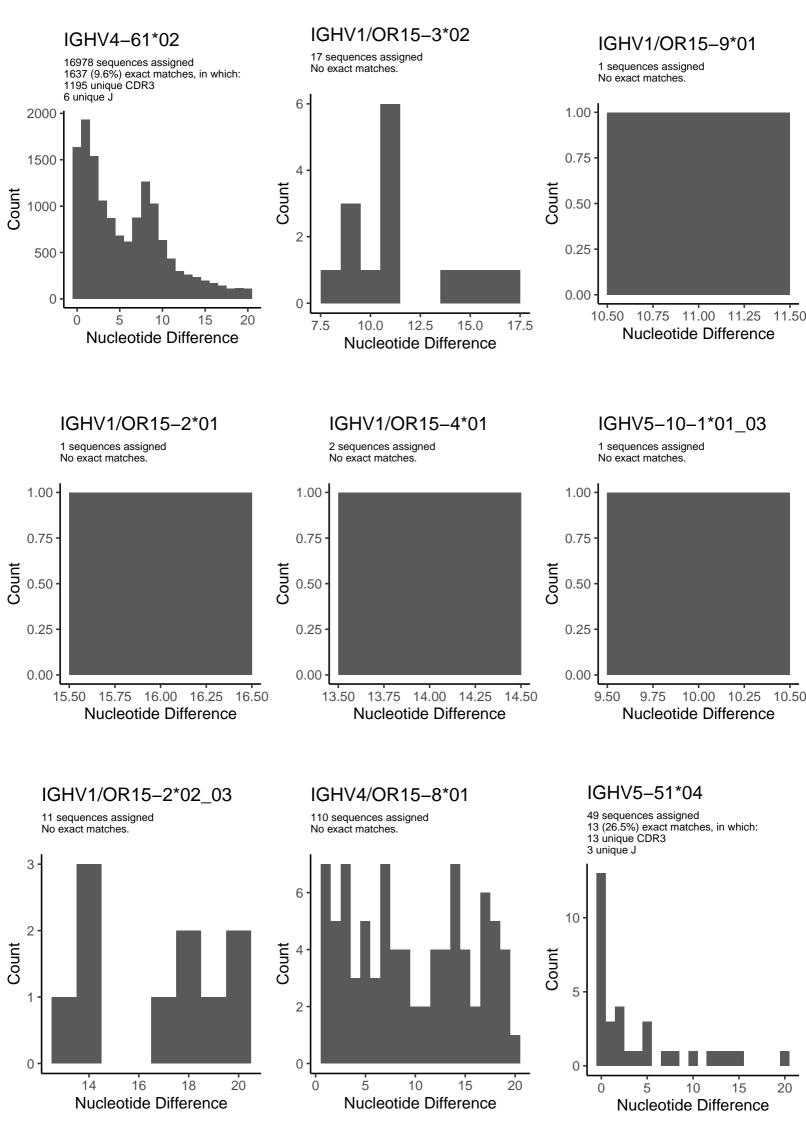












IGHV5-51*06 IGHV6-1*01_02_A315G 19 sequences assigned 5 (26.3%) exact matches, in which: 4 unique CDR3 574 sequences assigned 78 (13.6%) exact matches, in which: 76 unique CDR3 2 unique J 6 unique J 80 4 60 Count 2 Count 040 20 0 0 10 15 20 0 Nucleotide Difference **Nucleotide Difference** IGHV5-51*07 IGHV3/OR16-13*01 45 sequences assigned 15 (33.3%) exact matches, in which: 15 unique CDR3 1 sequences assigned No exact matches. 4 unique J 1.00 -15 0.75 10 Count 0.50 Count 5 0.25 0.00 0 5.75 6.00 6.25 6.50 5.50 0 10 15 20 **Nucleotide Difference** Nucleotide Difference IGHV6-1*01_02 IGHV7-4-1*02 3642 sequences assigned 5306 sequences assigned 404 (11.1%) exact matches, in which: 655 (12.3%) exact matches, in which: 268 unique CDR3 491 unique CDR3 5 unique J 6 unique J 750 750 Count 500 500 250 250 0 0 10 15 20 10 20 **Nucleotide Difference Nucleotide Difference**

IGHV6-1*01_02_A315G

