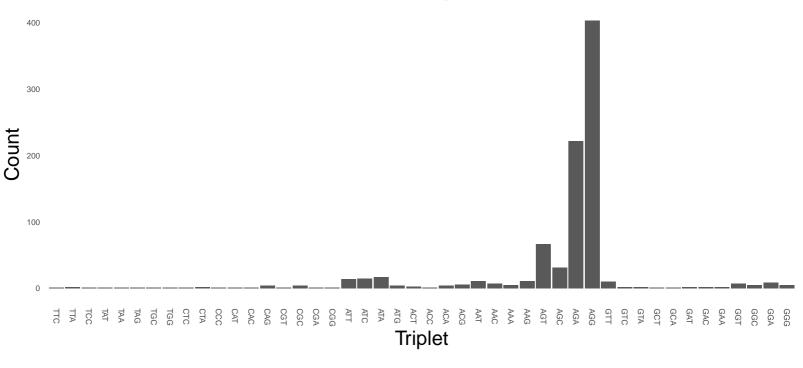
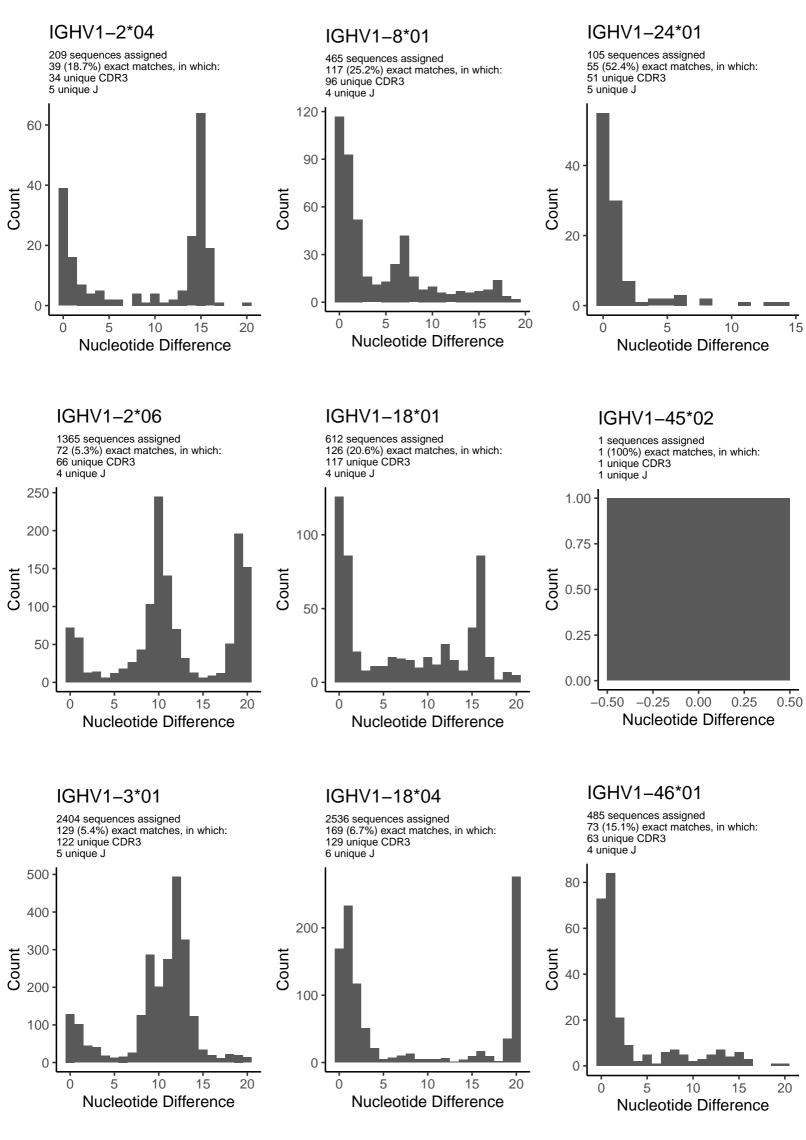
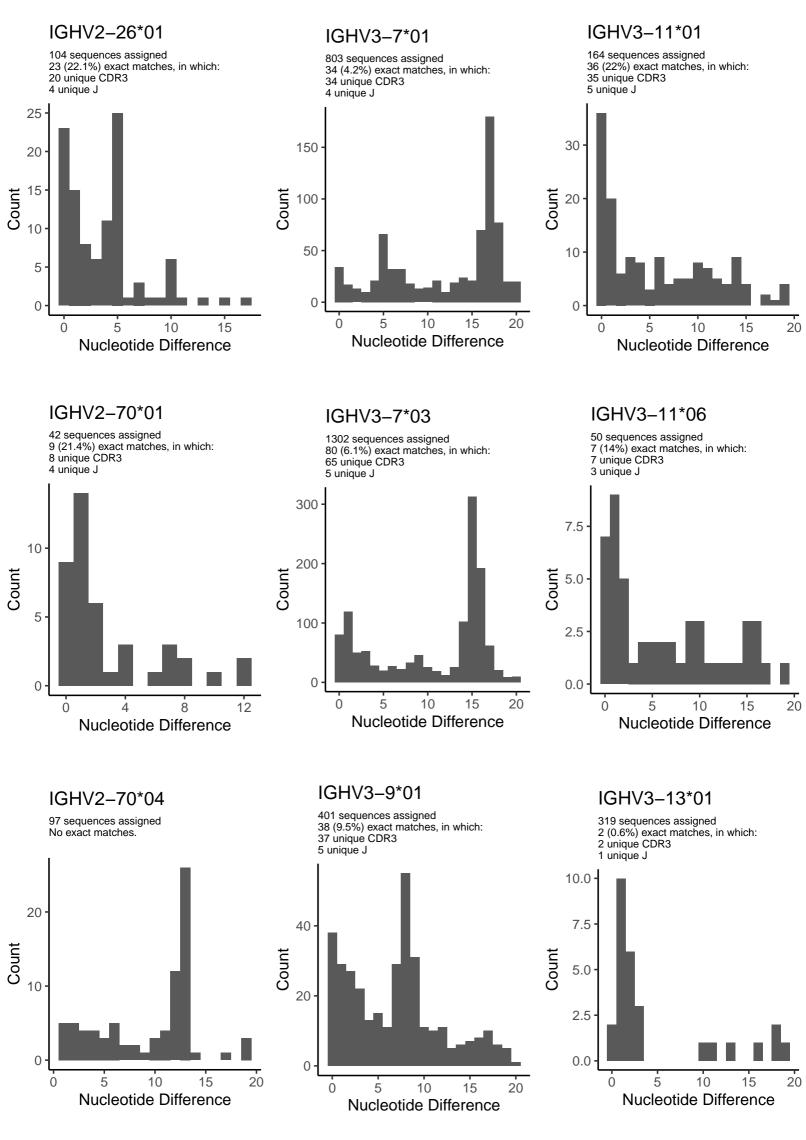


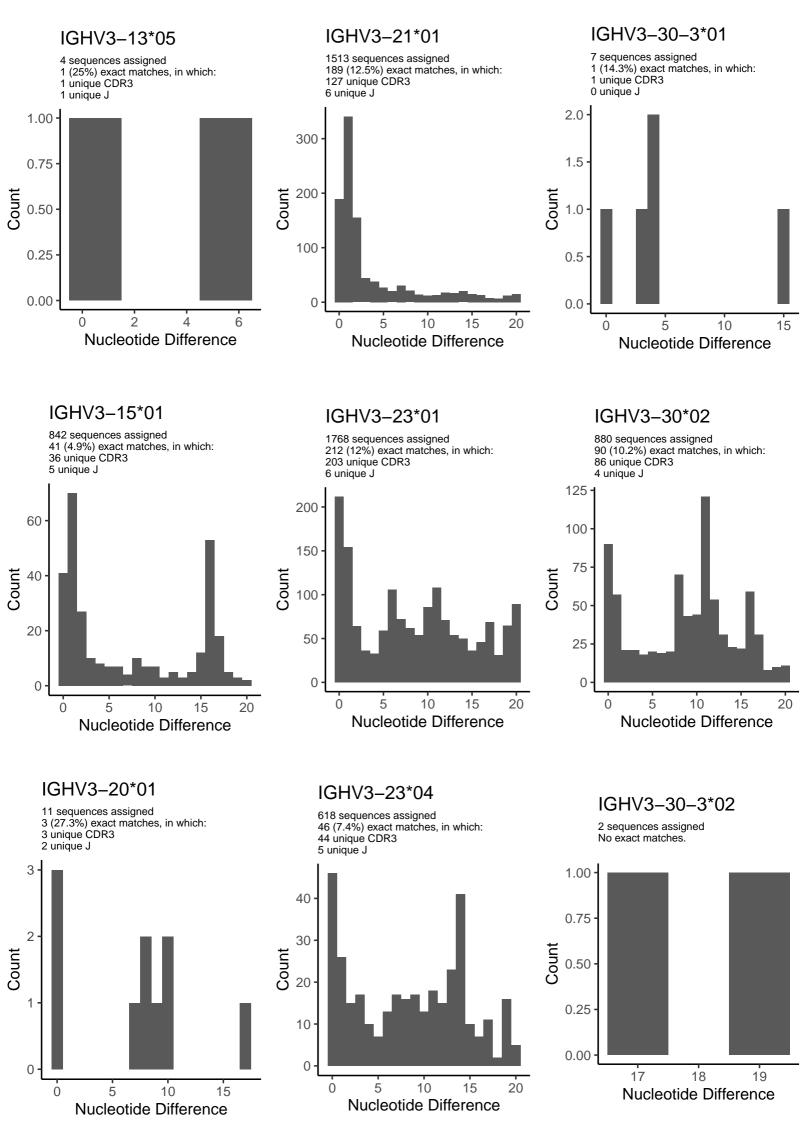
IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

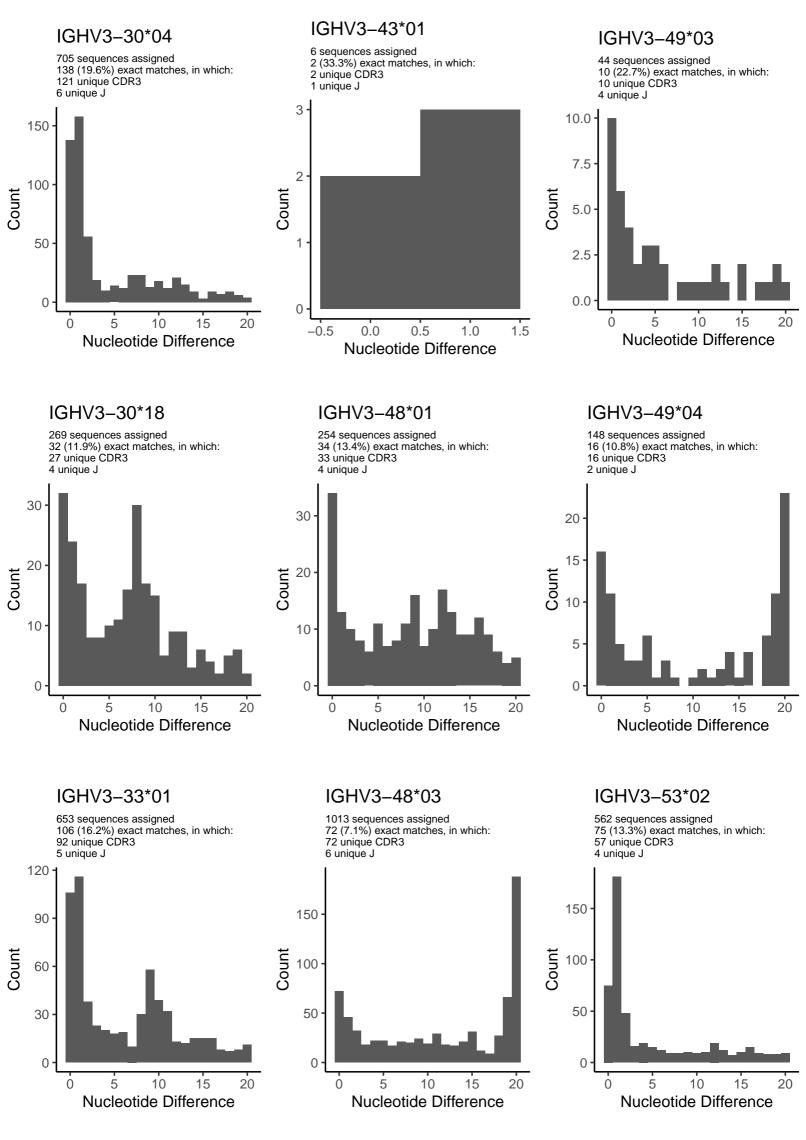


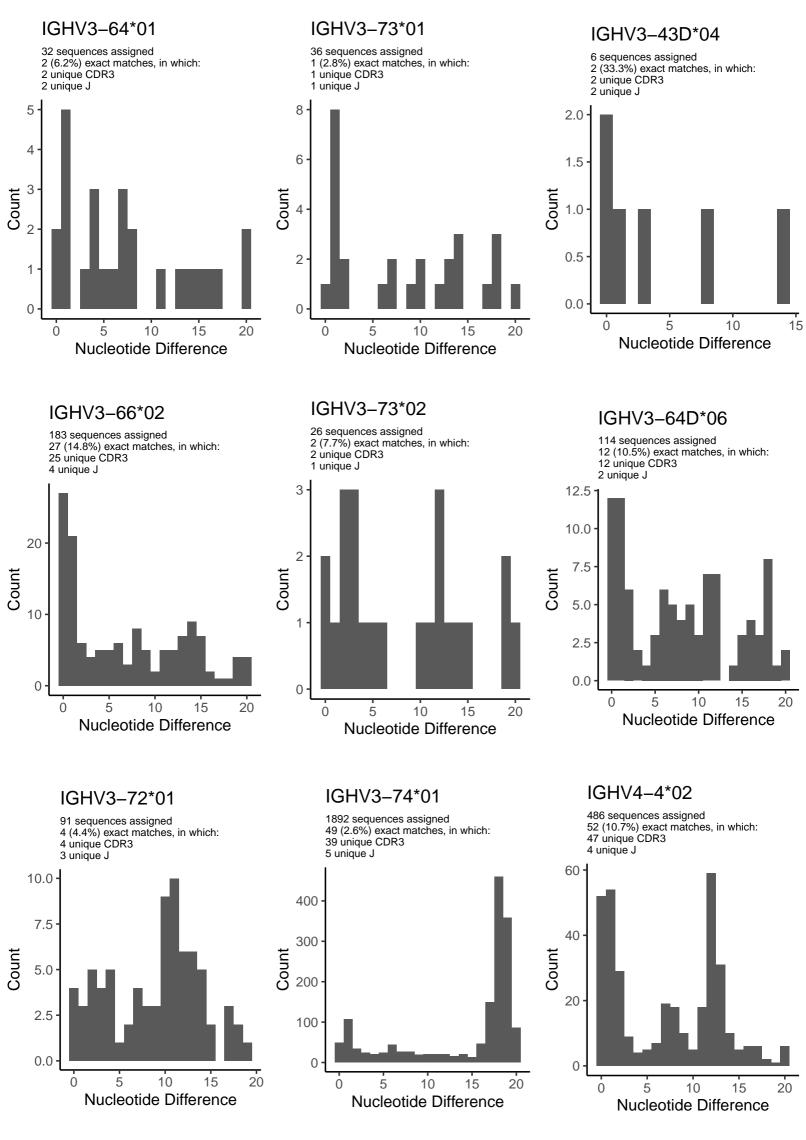


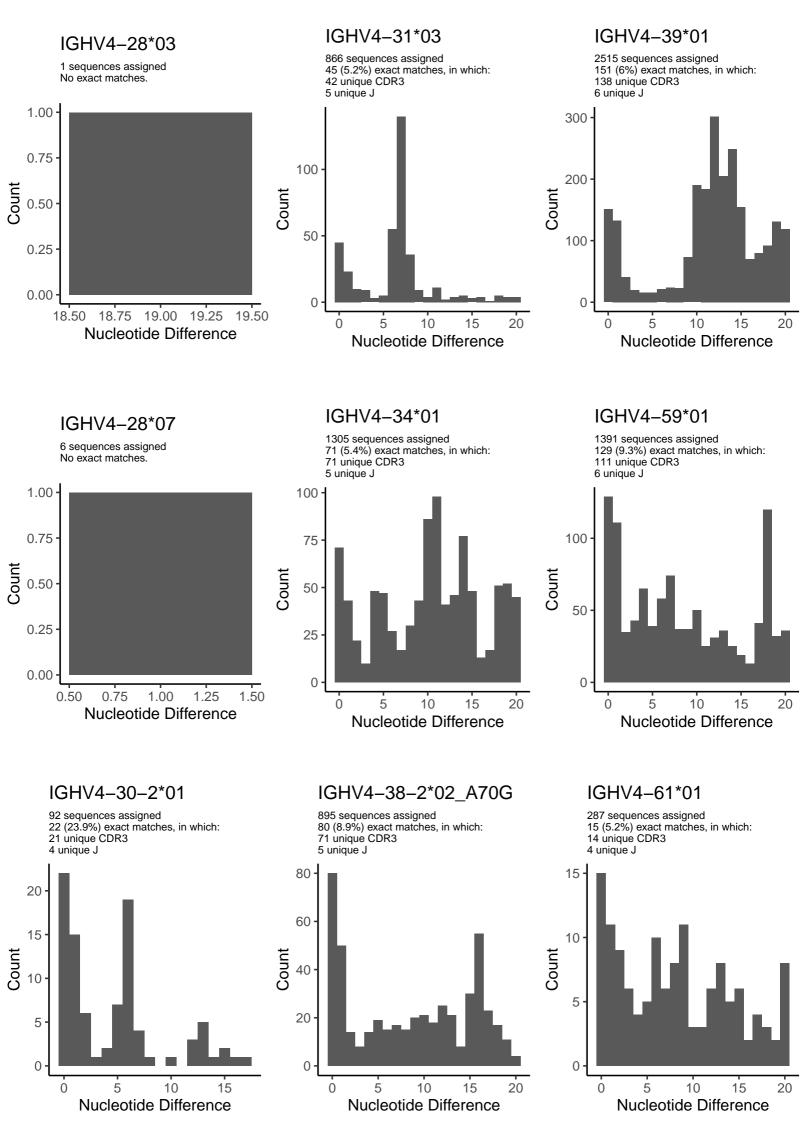
IGHV1-46*03 IGHV1-69*02 IGHV1-68*02 408 sequences assigned 42 (10.3%) exact matches, in which: 664 sequences assigned 1 sequences assigned 88 (13.3%) exact matches, in which: 28 unique CDR3 No exact matches. 71 unique CDR3 5 unique J 6 unique J 125 1.00 -60 100 0.75 75 Count Count 0.50 50 20 0.25 25 0.00 0 0 5.50 5.75 6.00 6.25 6.50 5 10 15 20 0 10 15 20 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-58*01 IGHV1-69*01 IGHV1-69*06 61 sequences assigned 1623 sequences assigned 183 (11.3%) exact matches, in which: 409 sequences assigned 98 (24%) exact matches, in which: 20 (32.8%) exact matches, in which: 14 unique CDR3 92 unique CDR3 159 unique CDR3 3 unique J 5 unique J 4 unique J 100 -250 20 200 75 15 150 Count Count 50 10 100 25 5 50 0 0 0 5 10 15 20 10 20 0 0 15 10 0 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-58*02 IGHV1-69-2*01 IGHV2-5*02 11 sequences assigned 44 sequences assigned 2013 sequences assigned 3 (27.3%) exact matches, in which: 2 unique CDR3 19 (43.2%) exact matches, in which: 93 (4.6%) exact matches, in which: 19 unique CDR3 85 unique CDR3 2 unique J 4 unique J 6 unique J 3 15 400 2 Count 10 200 5 0 0 10 15 20 0 5 10 15 20 0 8 12 Nucleotide Difference Nucleotide Difference Nucleotide Difference











IGHV5-51*03 IGHV4-61*02 280 sequences assigned 17 (6.1%) exact matches, in which: 1361 sequences assigned 93 (6.8%) exact matches, in which: 84 unique CDR3 17 unique CDR3 4 unique J 6 unique J Count Count **Nucleotide Difference** Nucleotide Difference IGHV5-10-1*03 IGHV6-1*01 444 sequences assigned 22 (5%) exact matches, in which: 653 sequences assigned 67 (10.3%) exact matches, in which: 22 unique CDR3 57 unique CDR3 3 unique J 6 unique J Count Count **Nucleotide Difference Nucleotide Difference** IGHV5-51*01 IGHV7-4-1*02 987 sequences assigned 44 (4.5%) exact matches, in which: 658 sequences assigned 100 (15.2%) exact matches, in which: 41 uniqué CDR3 87 unique CDR3 5 unique J 6 unique J Count

Nucleotide Difference

Nucleotide Difference

