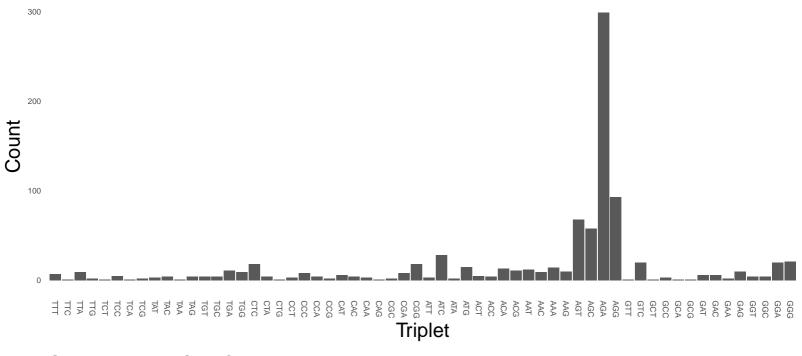
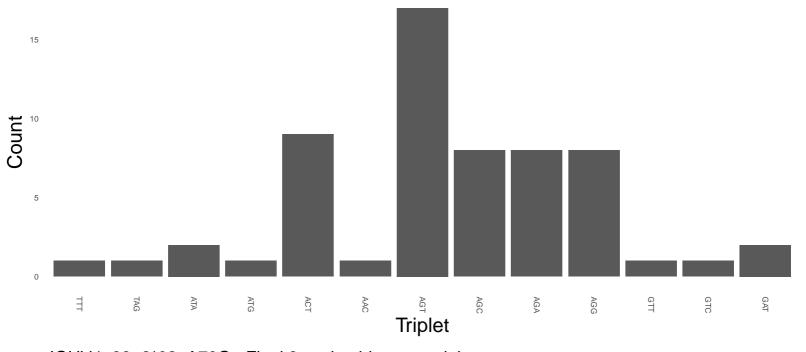


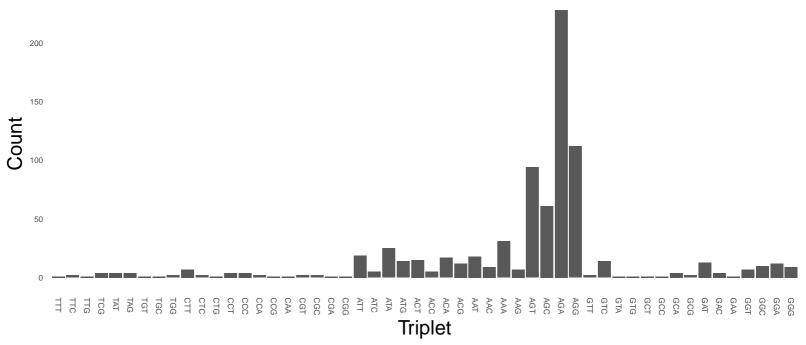
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet

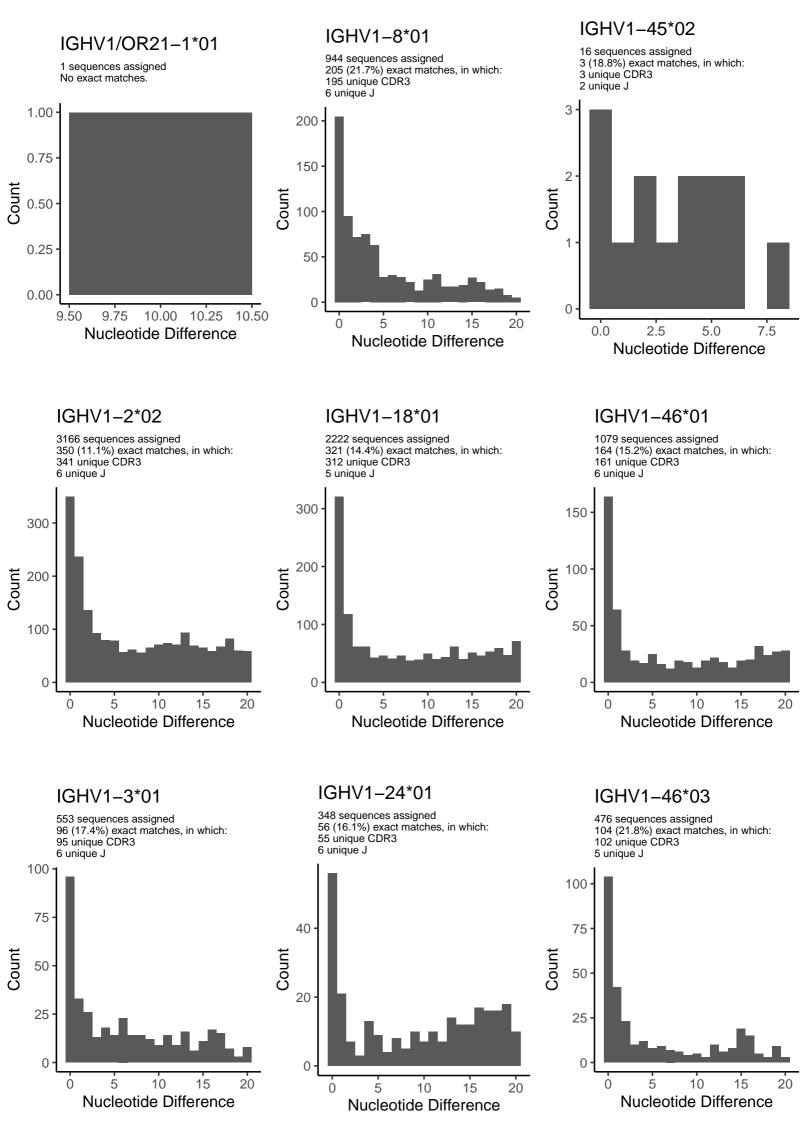


IGHV4-30-2*01_G139C- Final 3 nucleotides as a triplet

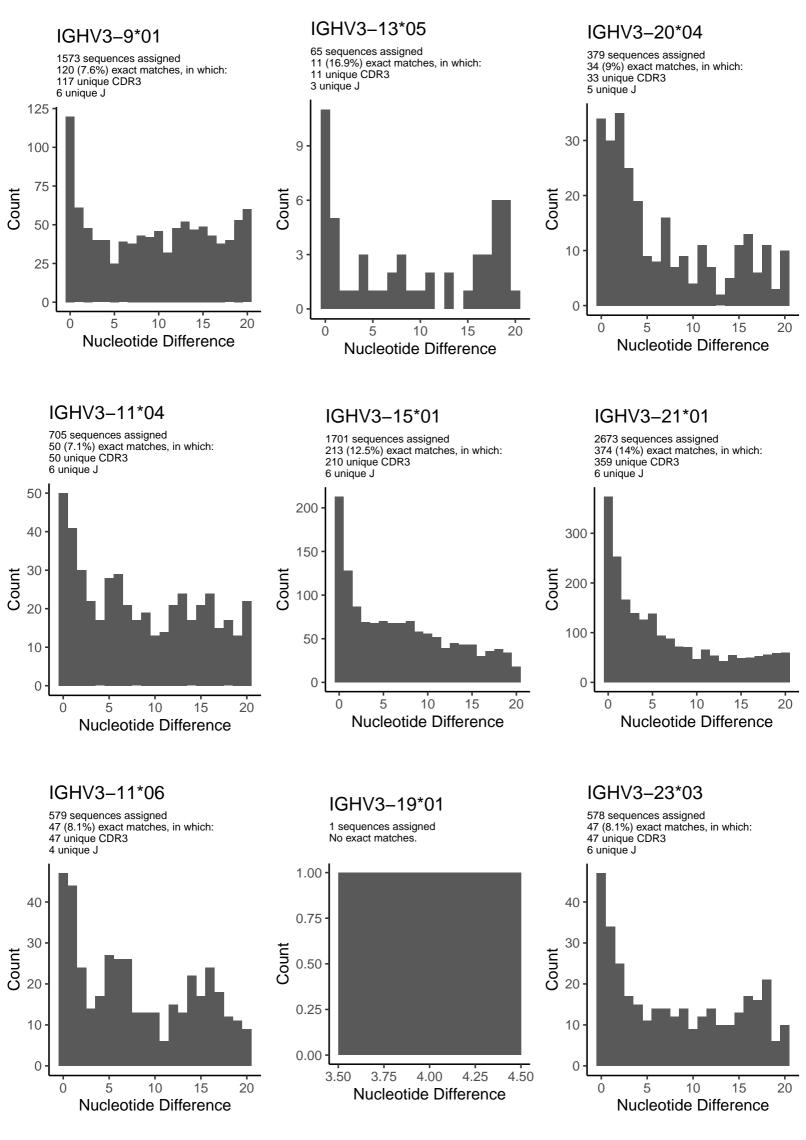


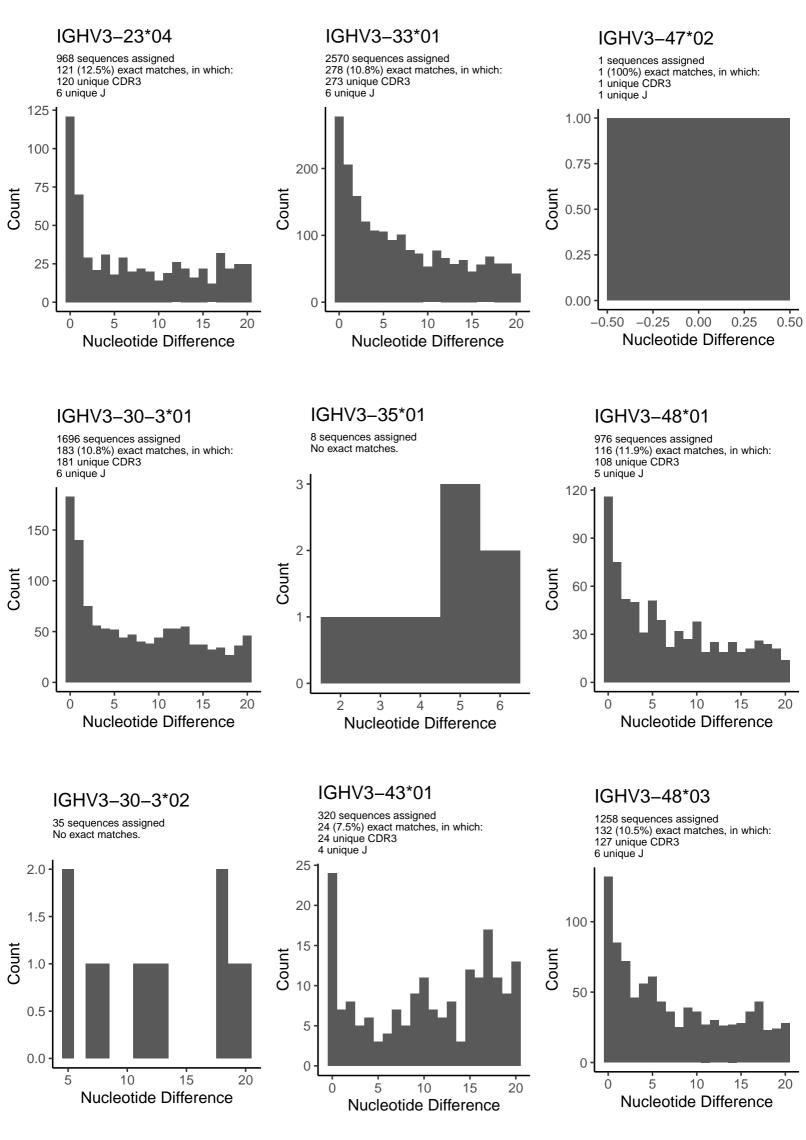
IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

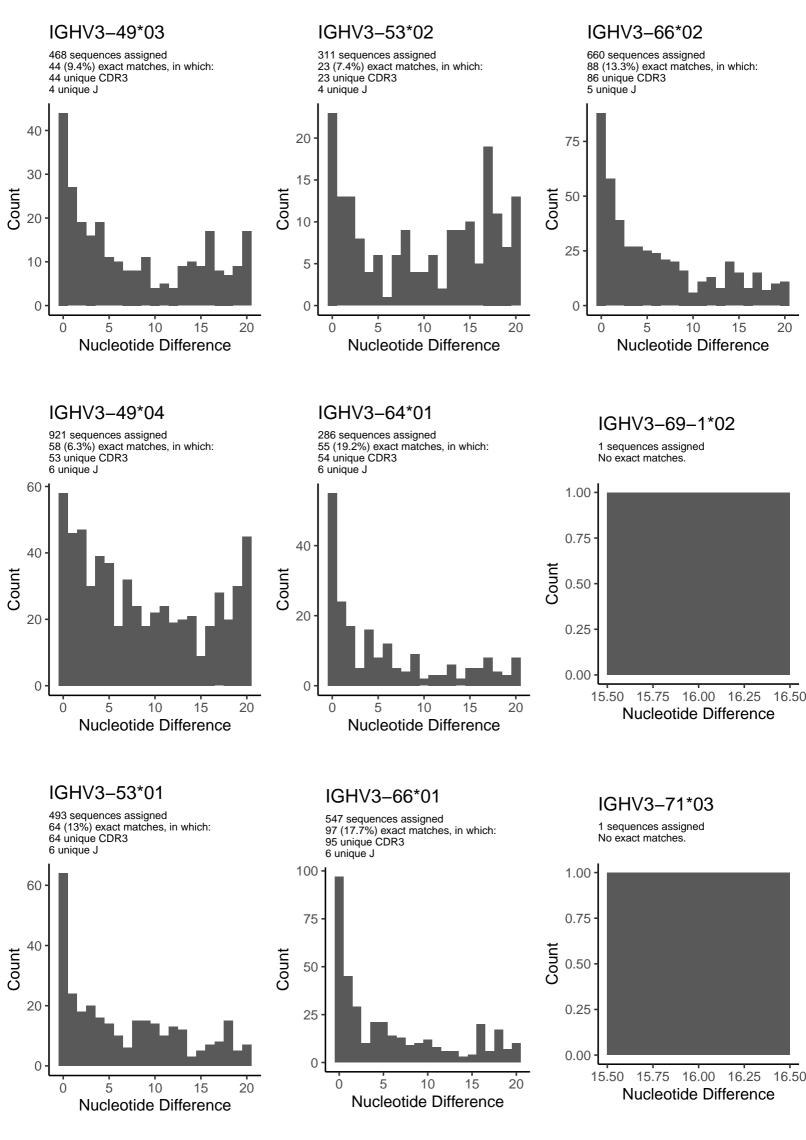


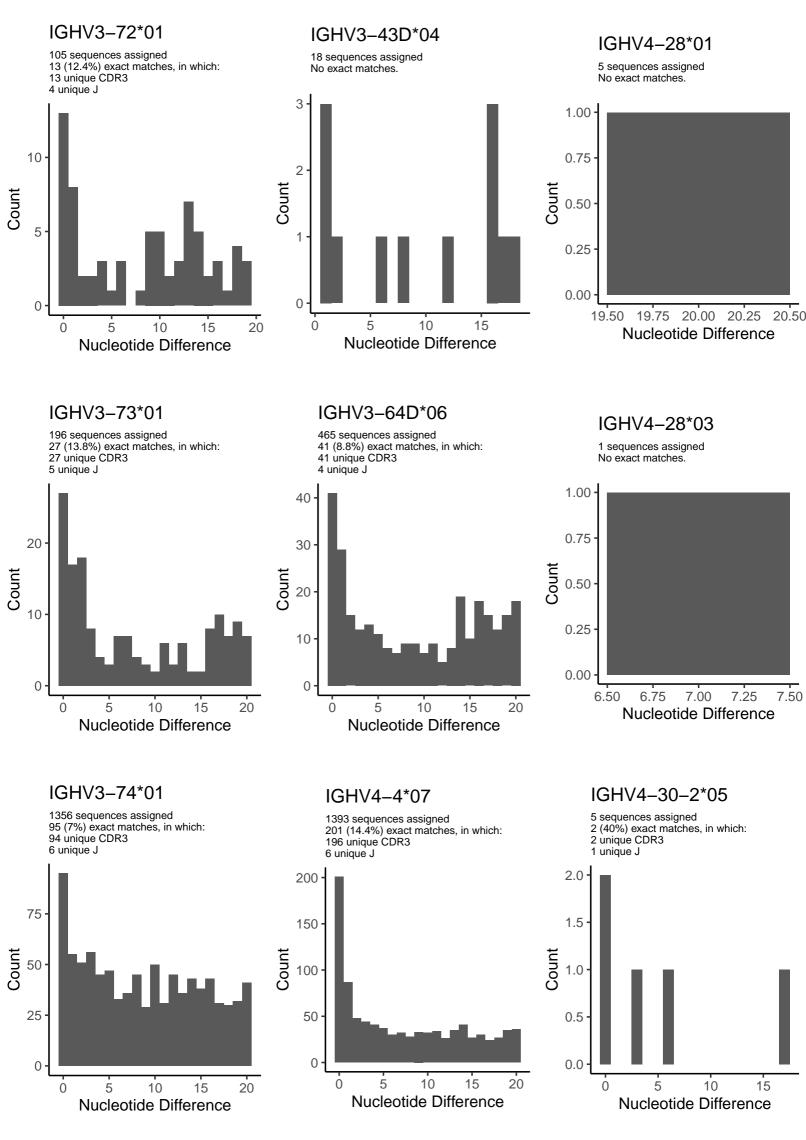


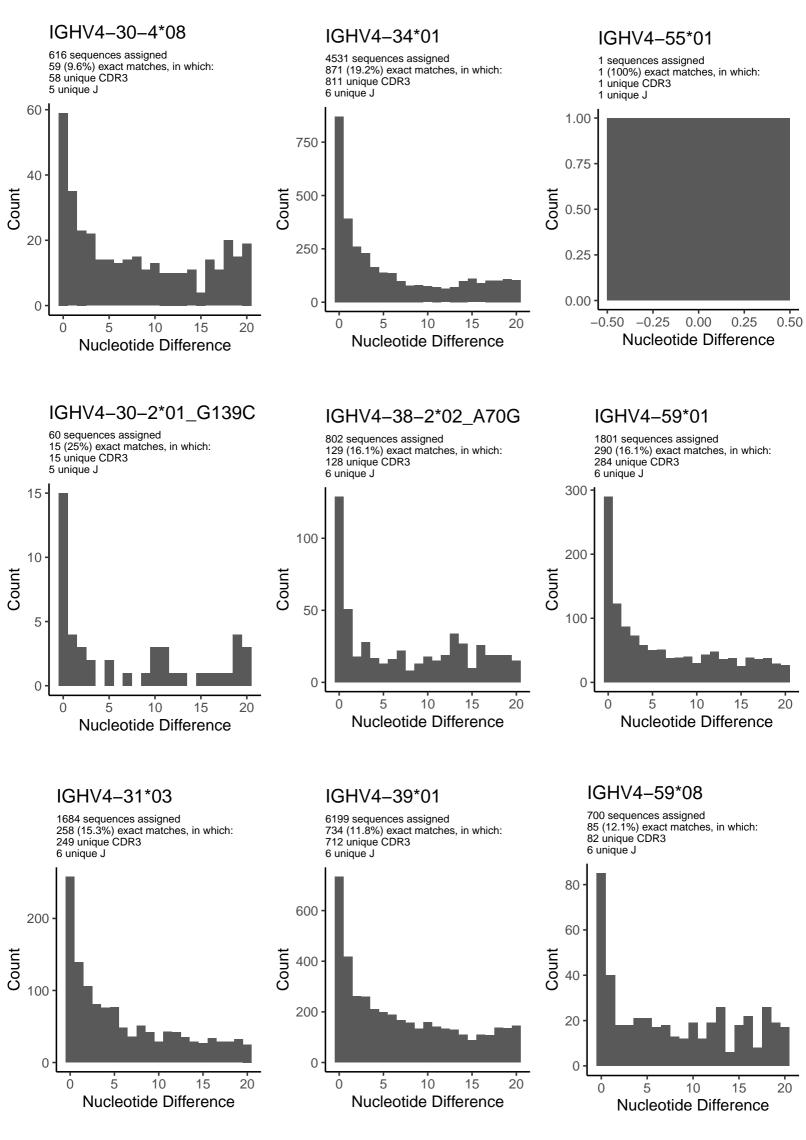
IGHV1-58*02 IGHV2-70D*04 IGHV2-5*02 153 sequences assigned 1602 sequences assigned 332 (20.7%) exact matches, in which: 11 sequences assigned 38 (24.8%) exact matches, in which: No exact matches. 38 unique CDR3 326 unique CDR3 5 unique J 6 unique J 3 300 30 200 Count 100 10 0 0 0 5 10 15 20 7.5 10.0 12.5 15.0 10 0 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-7*01 IGHV1-69*04 IGHV2-26*01 716 sequences assigned 883 sequences assigned 317 (35.9%) exact matches, in which: 1208 sequences assigned 276 (22.8%) exact matches, in which: 49 (6.8%) exact matches, in which: 47 unique CDR3 308 unique CDR3 261 unique CDR3 5 unique J 6 unique J 6 unique J 50 300 40 200 200 30 Count Count 20 100 10 0 0 20 20 10 15 5 10 15 0 5 0 10 15 20 0 5 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV3-7*04 IGHV2-70*15 IGHV1-69*08_C191T 338 sequences assigned 364 sequences assigned 894 sequences assigned 267 (29.9%) exact matches, in which: 54 (16%) exact matches, in which: 36 (9.9%) exact matches, in which: 50 unique CDR3 36 unique CDR3 263 unique CDR3 4 unique J 4 unique J 6 unique J 30 200 40 Count Count 20 100 20 10 0 0 10 15 20 0 5 10 15 20 0 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**





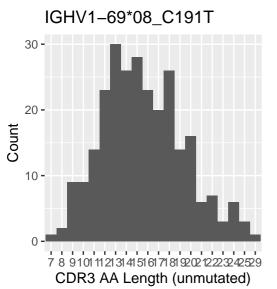


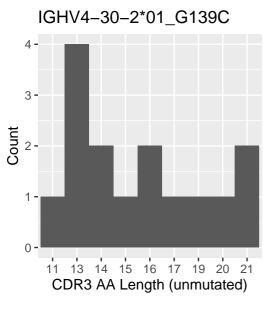


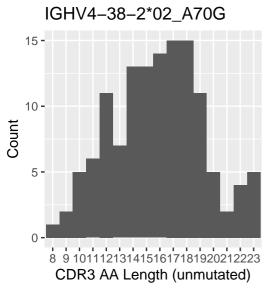


IGHV4-61*02 IGHV5-51*03 1058 sequences assigned 132 (12.5%) exact matches, in which: 130 unique CDR3 2203 sequences assigned 284 (12.9%) exact matches, in which: 281 unique CDR3 6 unique J 6 unique J 100 200 Count Count 50 100 0 0 10 15 0 5 20 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference IGHV6-1*01 IGHV5-10-1*03 259 sequences assigned 60 (23.2%) exact matches, in which: 50 unique CDR3 676 sequences assigned 106 (15.7%) exact matches, in which: 104 unique CDR3 6 unique J 5 unique J 60 100 75 40 Count Count 50 20 25 0 0 5 10 15 20 0 0 10 15 20 **Nucleotide Difference** Nucleotide Difference IGHV5-51*01 IGHV7-4-1*01 397 sequences assigned 2 sequences assigned 12 (3%) exact matches, in which: 1 (50%) exact matches, in which: 12 unique CDR3 1 unique CDR3 4 unique J 1 unique J 1.00 40 0.75 Count Count Count 30 20 0.25 10 0.00 0 1.5 -0.50.0 0.5 1.0 0 10 15 20 **Nucleotide Difference**

Nucleotide Difference









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