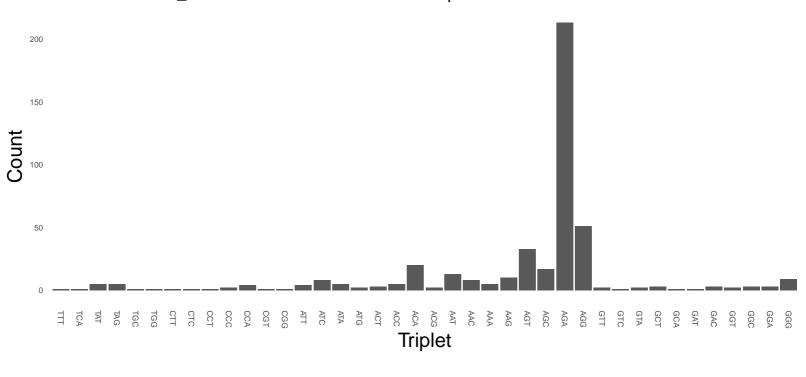
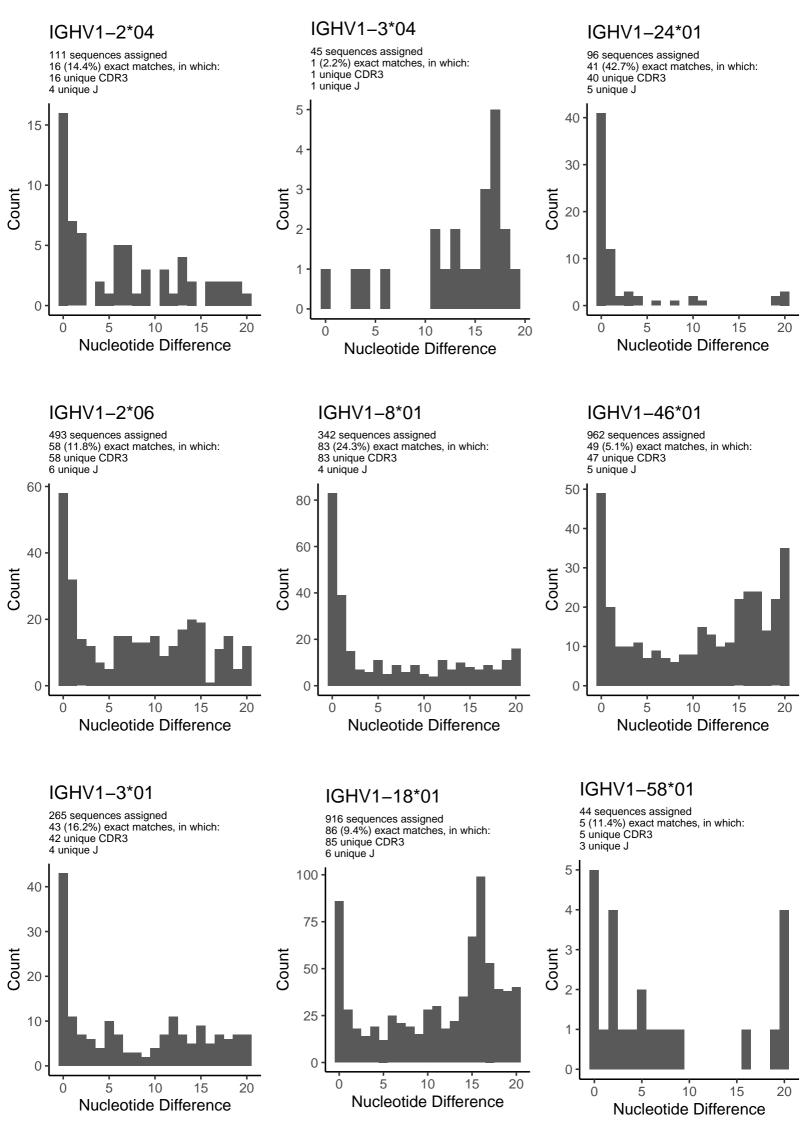
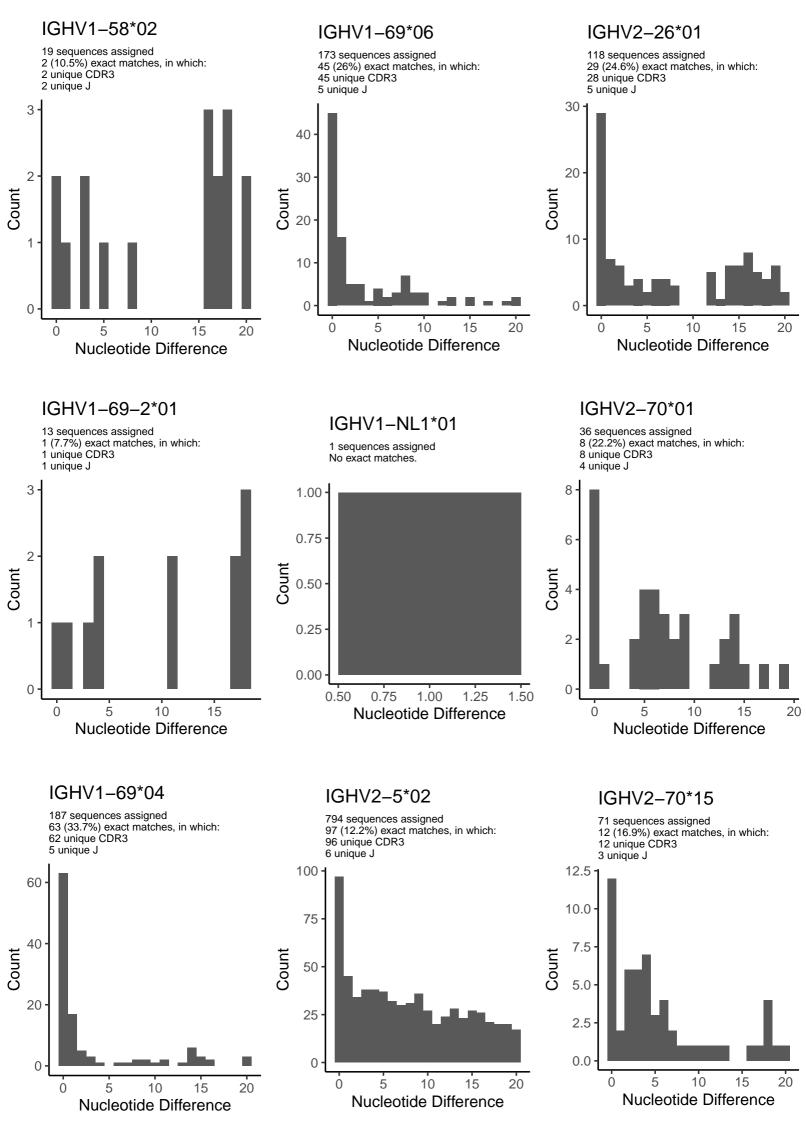
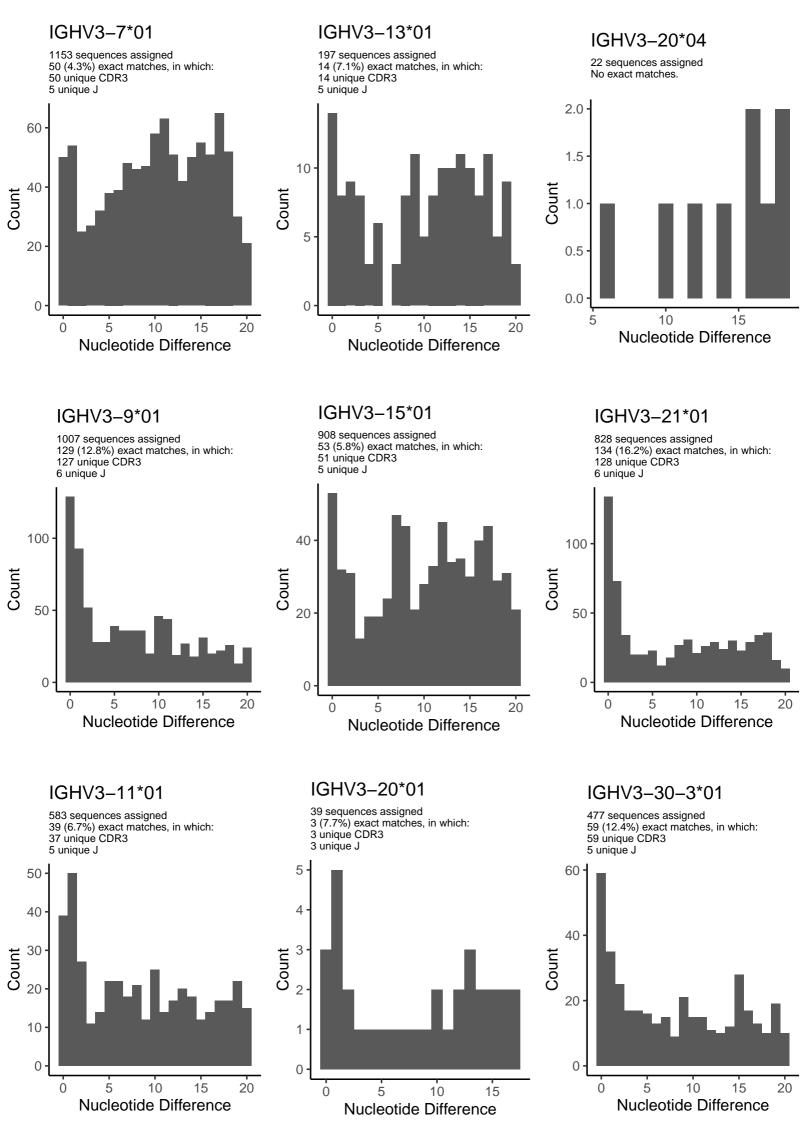


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

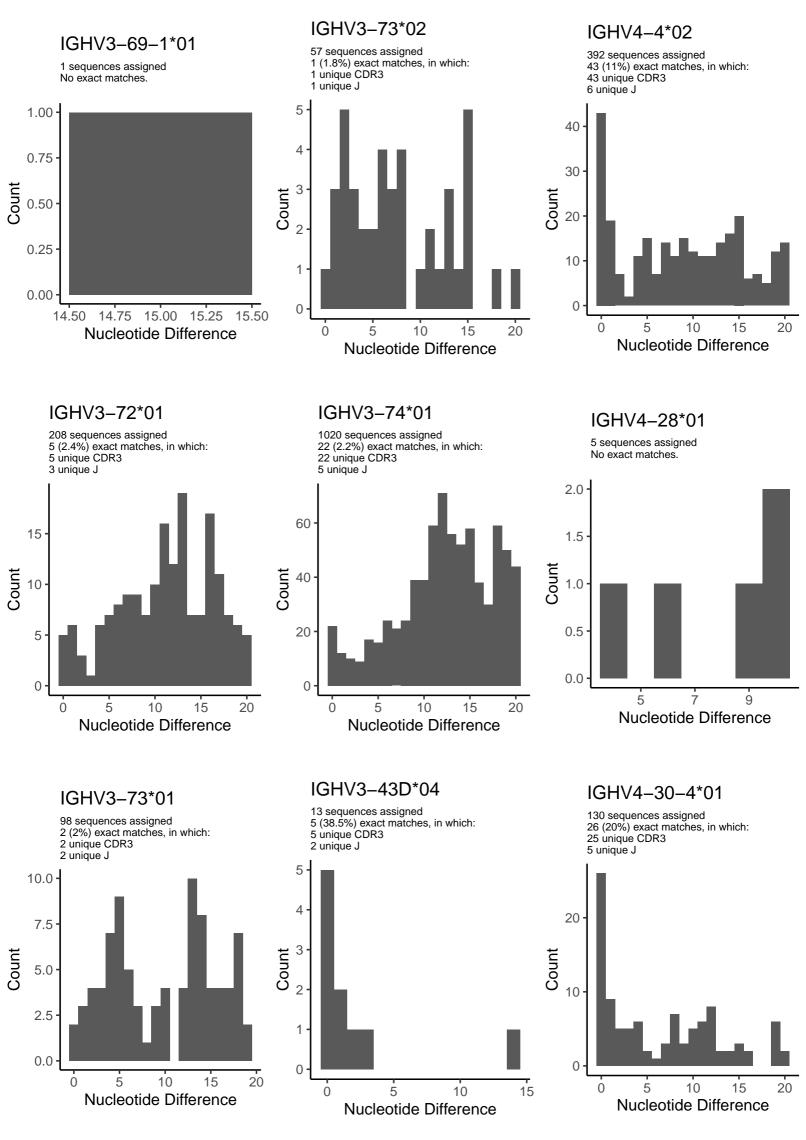


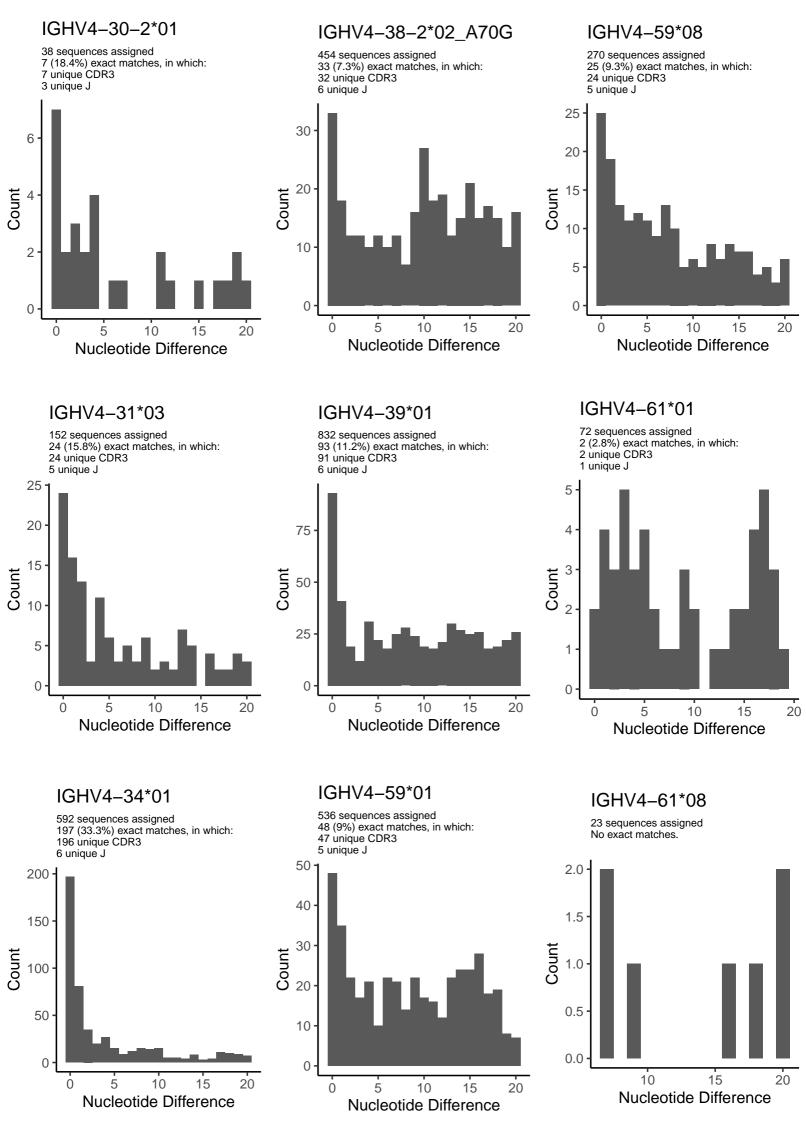




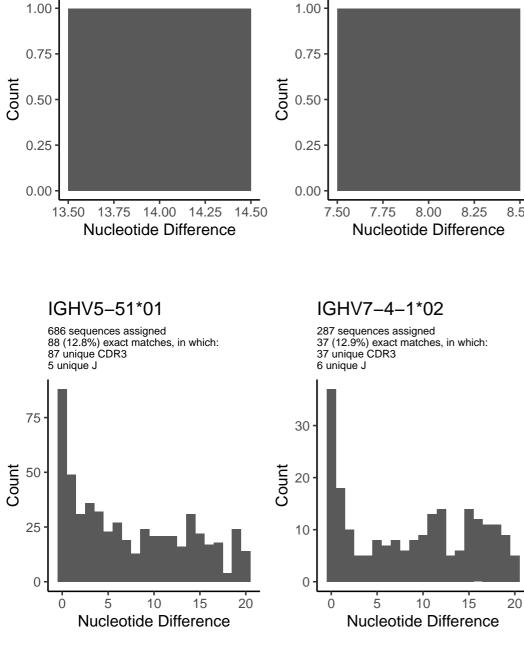


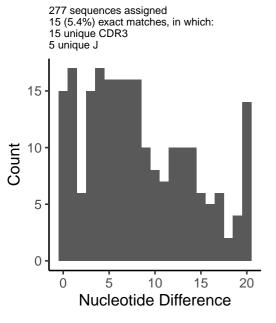
IGHV3-33*01 IGHV3-48*03 IGHV3-53*04 431 sequences assigned 33 (7.7%) exact matches, in which: 32 unique CDR3 859 sequences assigned 89 (10.4%) exact matches, in which: 62 sequences assigned 12 (19.4%) exact matches, in which: 87 unique CDR3 12 unique CDR3 5 unique J 5 unique J 5 unique J 12.5 30 75 10.0 7.5 Count Count Count 50 5.0 10 25 2.5 0.0 0 0 20 5 10 0 0 10 15 20 10 15 20 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-64*01 IGHV3-43*02 IGHV3-49*04 54 sequences assigned 7 (13%) exact matches, in which: 7 unique CDR3 442 sequences assigned 33 (7.5%) exact matches, in which: 193 sequences assigned 20 (10.4%) exact matches, in which: 20 unique CDR3 33 unique CDR3 4 unique J 4 unique J 4 unique J 20 30 6 15 20 Count Count Count 10 10 2 5 0 0 0 10 15 20 10 15 20 0 0 5 10 15 20 0 5 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-53*02 IGHV3-66*01 IGHV3-47*02 114 sequences assigned 9 (7.9%) exact matches, in which: 347 sequences assigned 1 sequences assigned 36 (10.4%) exact matches, in which: 9 unique CDR3 No exact matches. 35 unique CDR3 3 unique J 4 unique J 1.00 30 9 0.75 Count 0.50 Count 20 0.25 10 3 0.00 0 0 2.75 3.00 3.25 3.50 2.50 0 10 15 20 0 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference





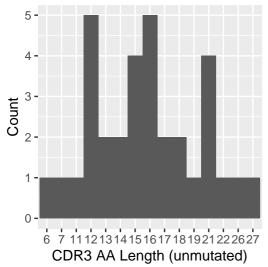
IGHV4/OR15-8*01 IGHV3/OR16-9*01 1 sequences assigned 1 sequences assigned No exact matches. No exact matches. 1.00 -1.00 -0.75 0.75 Count Count 0.25 0.25 0.00 0.00 13.50 13.75 14.00 14.25 7.50 7.75 8.00 8.25 8.50





IGHV6-1*01

IGHV4-38-2*02_A70G





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