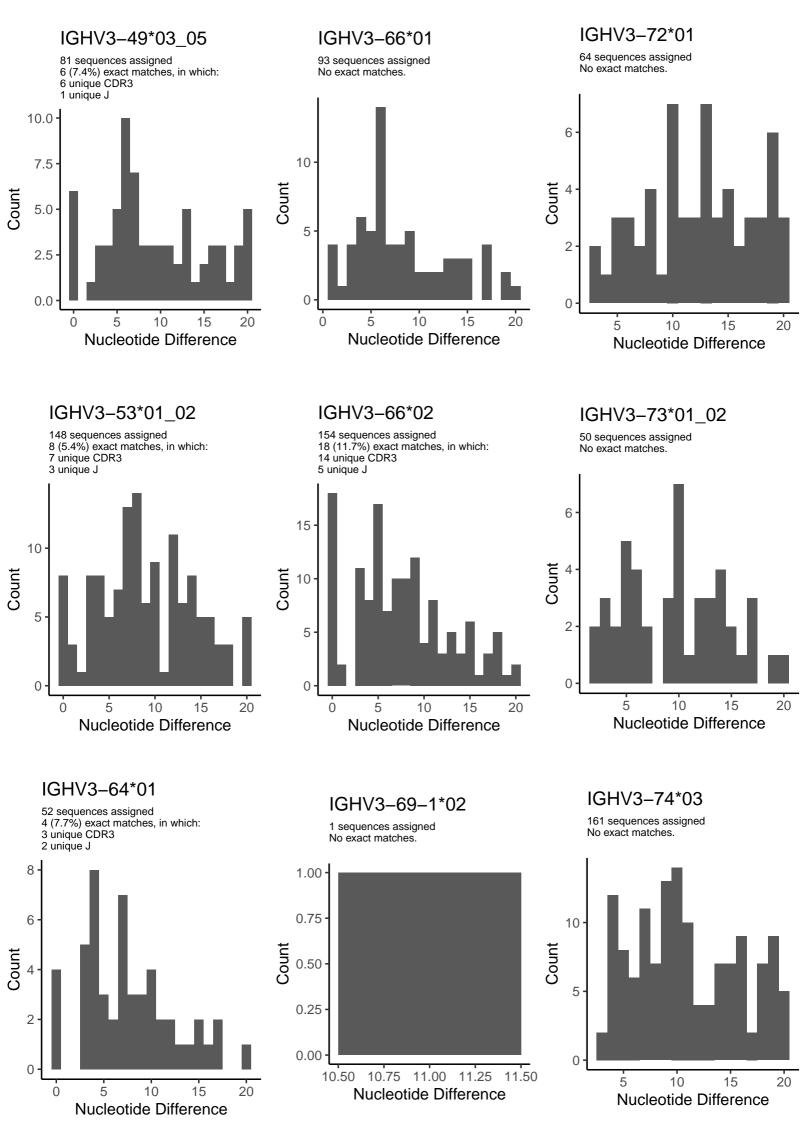
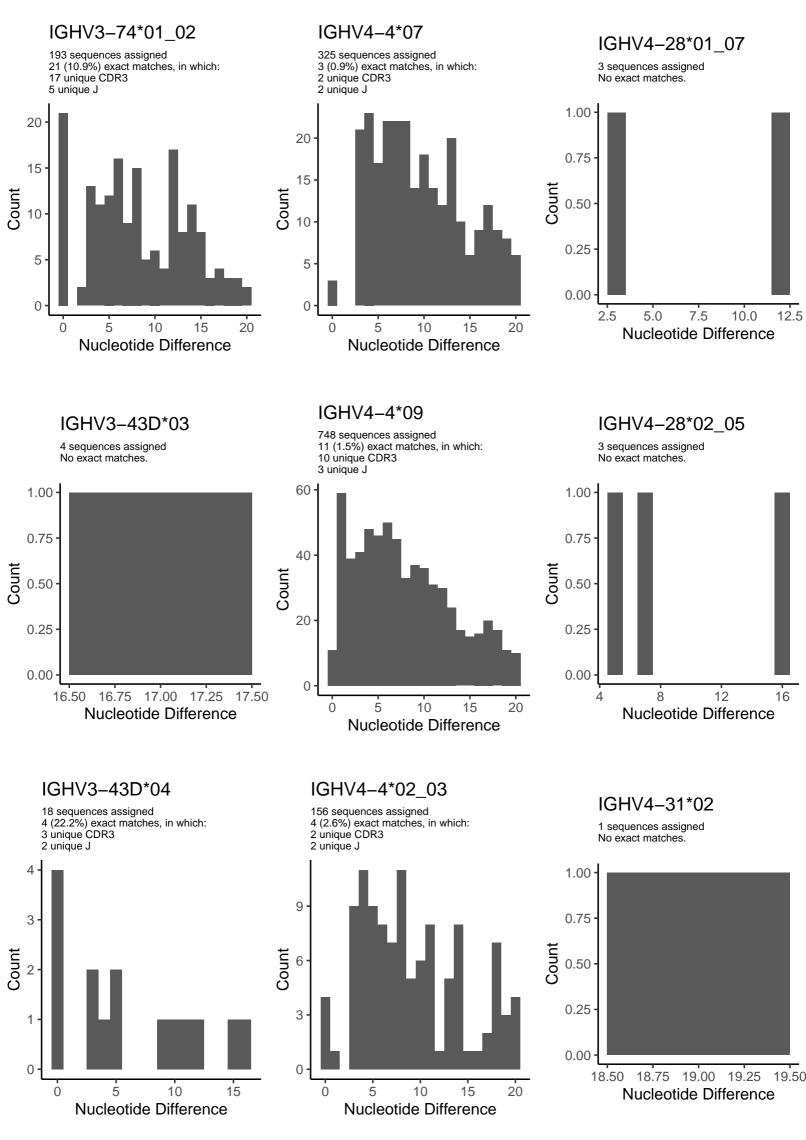
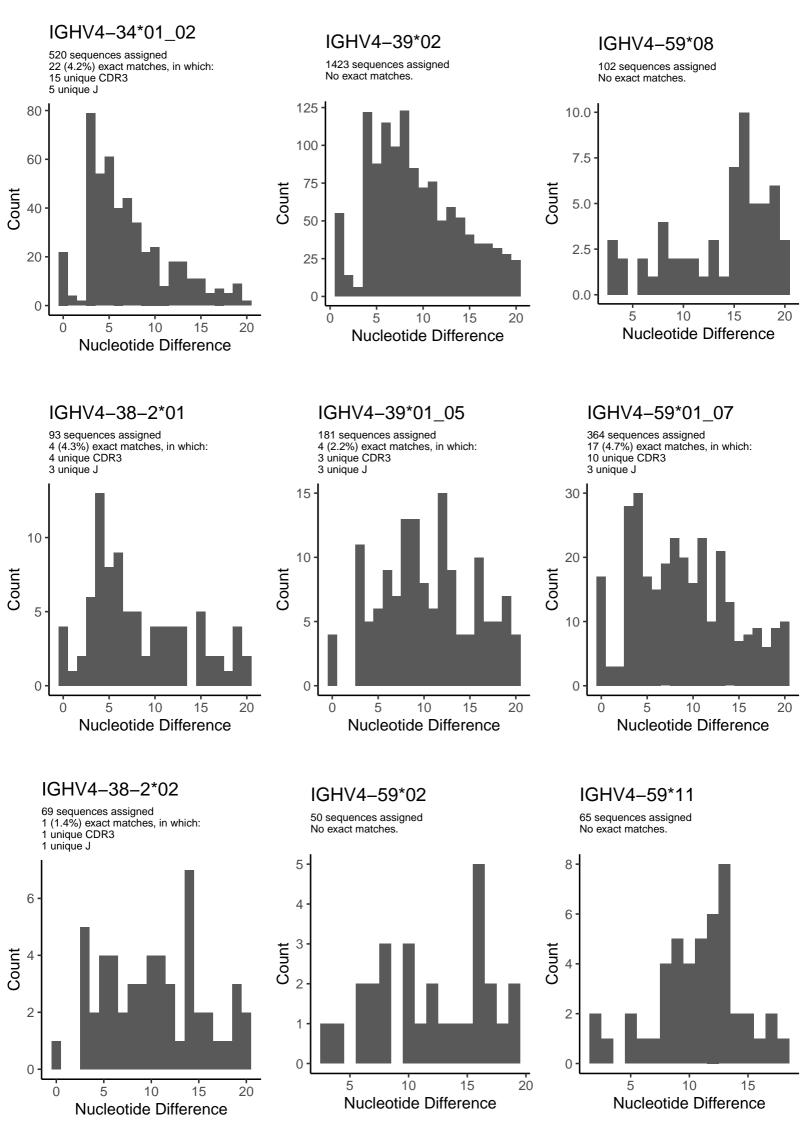


IGHV3-11*01 IGHV3-23*01_04 IGHV3-20*01_02 1734 sequences assigned 56 (3.2%) exact matches, in which: 43 unique CDR3 224 sequences assigned 18 (8%) exact matches, in which: 5 sequences assigned 16 unique CDR3 No exact matches. 5 unique J 5 unique J 1.00 120 15 0.75 80 Count Count 0.50 40 0.25 5 0.00 0 5 10 15 20 20 5 10 15 0 10 15 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-13*01 IGHV3-43*01 IGHV3-20*03_04 25 sequences assigned 3 (12%) exact matches, in which: 2 unique CDR3 64 sequences assigned 3 (4.7%) exact matches, in which: 3 unique CDR3 2 sequences assigned No exact matches. 3 unique J 2 unique J 5 1.00 -4 0.75 3 3 Count Count 0.50 2 2 0.25 1 0.00 0 0 8 9 10 10 15 20 10 15 20 0 5 0 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-48*01 IGHV3-15*01_02 IGHV3-21*01_02 272 sequences assigned 474 sequences assigned 806 sequences assigned 12 (4.4%) exact matches, in which: 30 (3.7%) exact matches, in which: 81 (17.1%) exact matches, in which: 12 unique CDR3 63 unique CDR3 24 unique CDR3 4 unique J 5 unique J 4 unique J 80 50 15 40 60 Count Count 30 40 20 5 20 10 0 0 0 0 10 15 20 0 10 15 20 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference







IGHV4-61*02 IGHV5-51*01_03 193 sequences assigned 21 (10.9%) exact matches, in which: 21 unique CDR3 5 unique J 514 sequences assigned 26 (5.1%) exact matches, in which: 19 unique CDR3 3 unique J 20 30 15 Count 10 10 5 0 0 5 10 15 20 0 5 10 15 Nucleotide Difference Nucleotide Difference IGHV6-1*01_02 IGHV4/OR15-8*02 240 sequences assigned 2 (0.8%) exact matches, in which: 2 unique CDR3 2 unique J 1 sequences assigned No exact matches. 1.00 -20 0.75 15 Count 0.50 10 0.25 5 0.00 0 15.75 16.00 16.25 16.50 15.50 5 10 15 20 **Nucleotide Difference Nucleotide Difference** IGHV5-51*07 IGHV7-4-1*01 89 sequences assigned 1 sequences assigned No exact matches. No exact matches. 12.5 1.00 10.0 0.75 7.5 Count Count Count 5.0 0.25 2.5 0.0 0.00

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