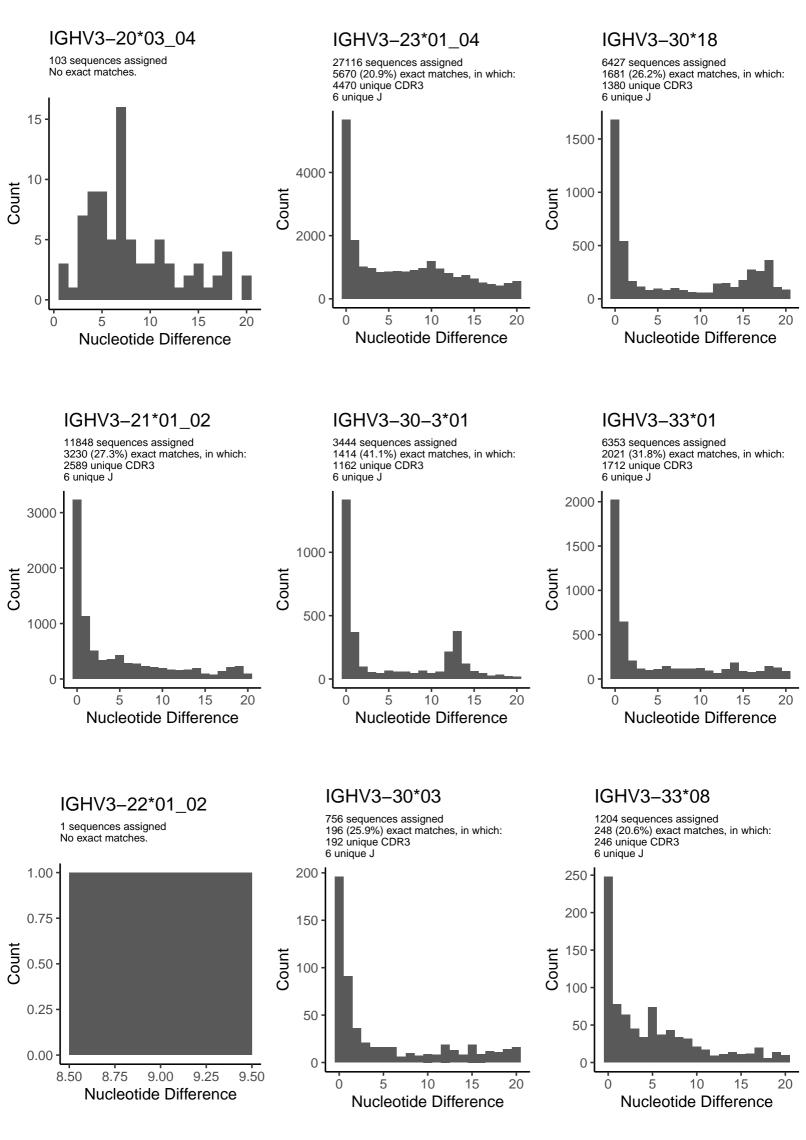
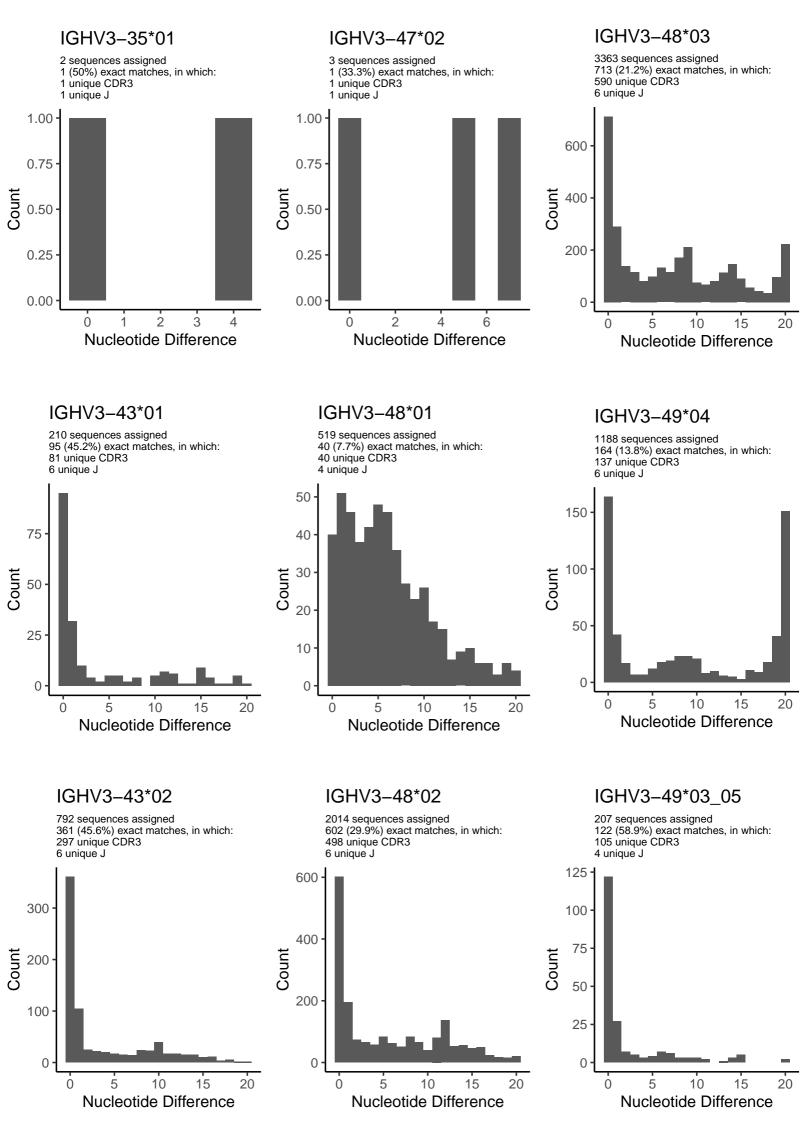
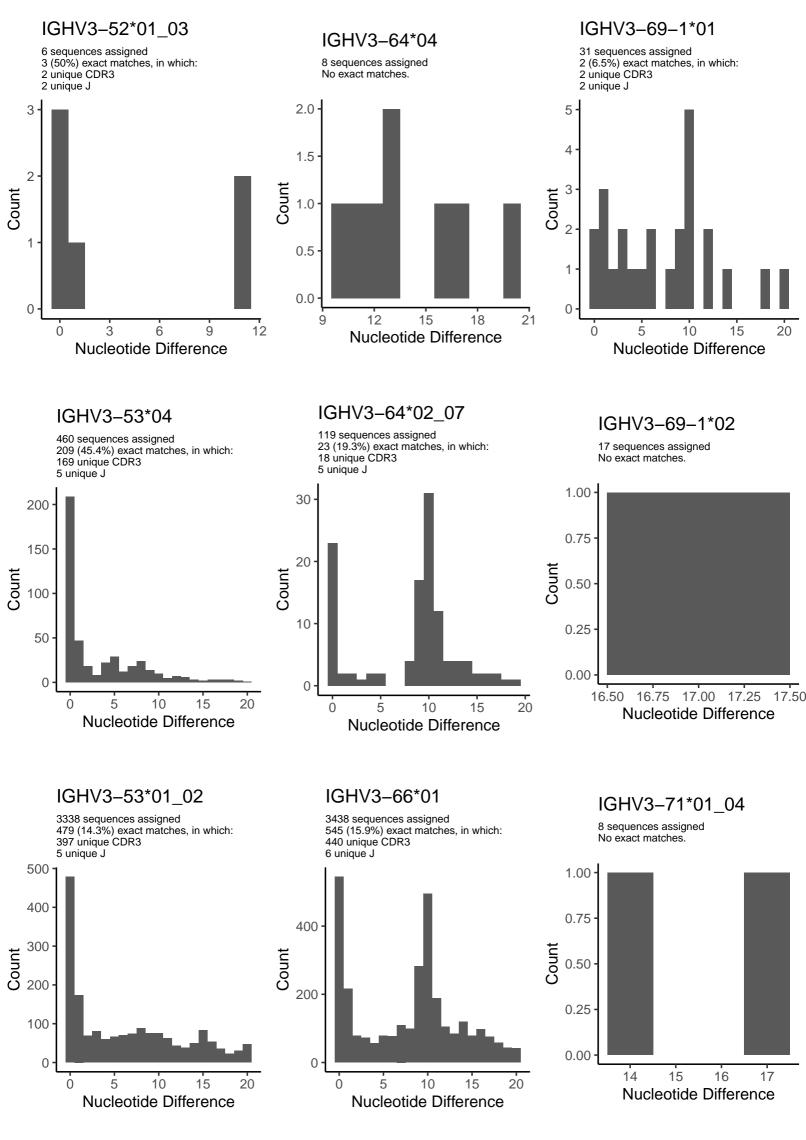
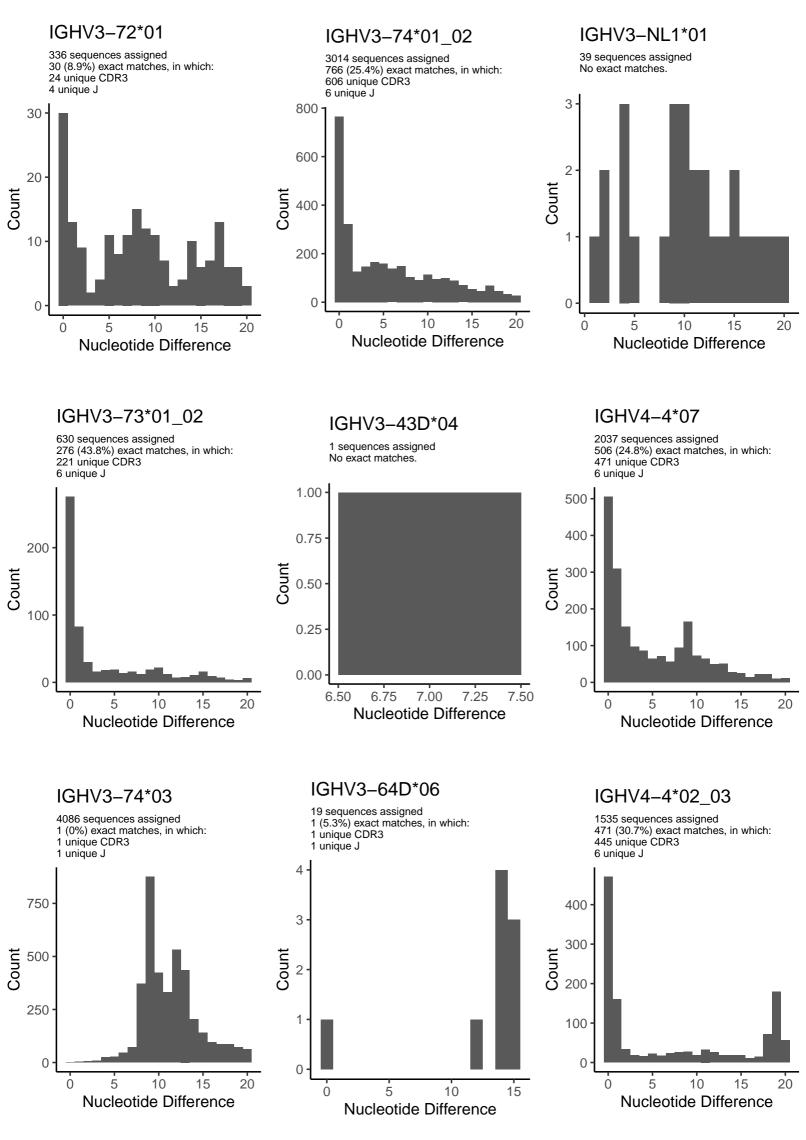


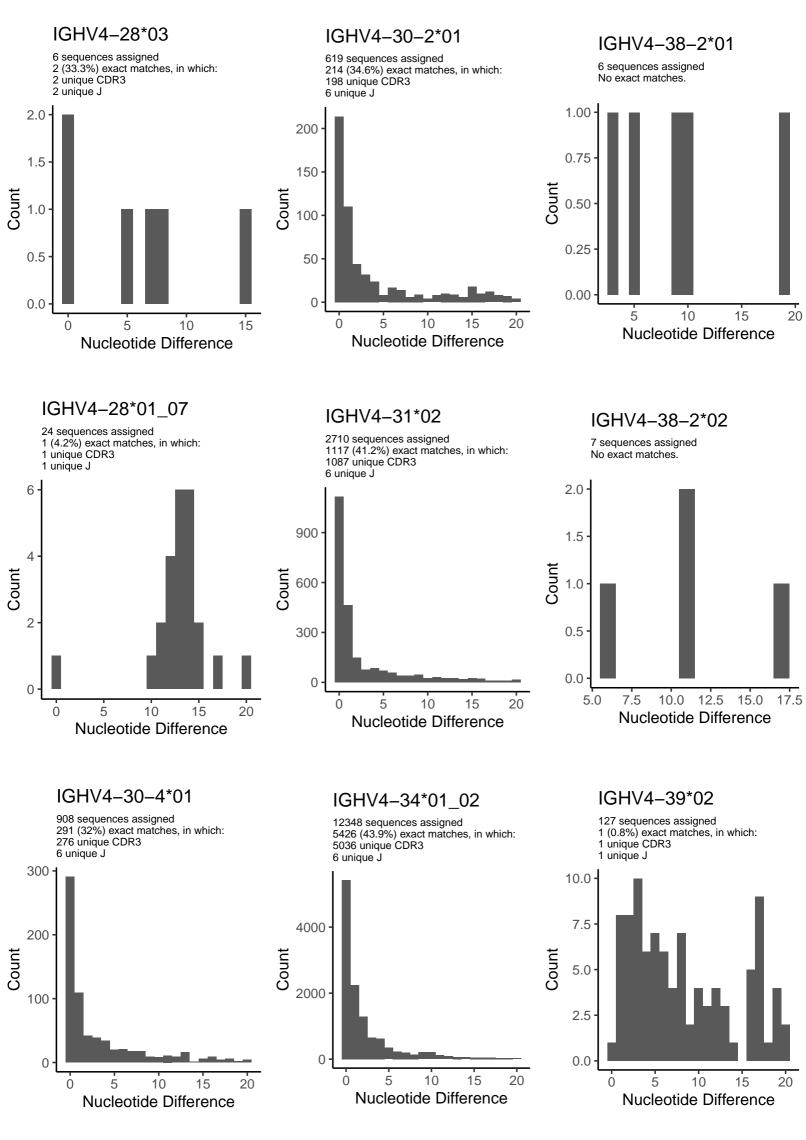
IGHV2-70*01 IGHV3-13*01 IGHV3-7*01 201 sequences assigned 864 sequences assigned 349 (40.4%) exact matches, in which: 9010 sequences assigned 1573 (17.5%) exact matches, in which: 90 (44.8%) exact matches, in which: 85 unique CDR3 263 unique CDR3 1266 unique CDR3 4 unique J 5 unique J 6 unique J 1500 300 75 1000 Count Count 200 50 500 100 25 0 0 0 10 0 15 20 5 10 20 0 15 10 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-70*04 IGHV3-15*01_02 IGHV3-9*01 174 sequences assigned 2026 sequences assigned 626 (30.9%) exact matches, in which: 6152 sequences assigned 2278 (37%) exact matches, in which: 59 (33.9%) exact matches, in which: 53 unique CDR3 525 unique CDR3 1833 unique CDR3 5 unique J 6 unique J 6 unique J 60 600 2000 40 1500 400 Count Count 1000 20 200 500 0 0 0 0 10 20 10 15 20 0 5 10 15 0 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-20*01_02 IGHV2-70*11_15 IGHV3-11*01 236 sequences assigned 403 sequences assigned 167 (41.4%) exact matches, in which: 4813 sequences assigned 81 (34.3%) exact matches, in which: 1278 (26.6%) exact matches, in which: 69 unique CDR3 159 unique CDR3 1046 unique CDR3 5 unique J 5 unique J 6 unique J 80 1000 60 100 Count 40 500 50 20 0 0 0 10 15 20 10 15 20 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

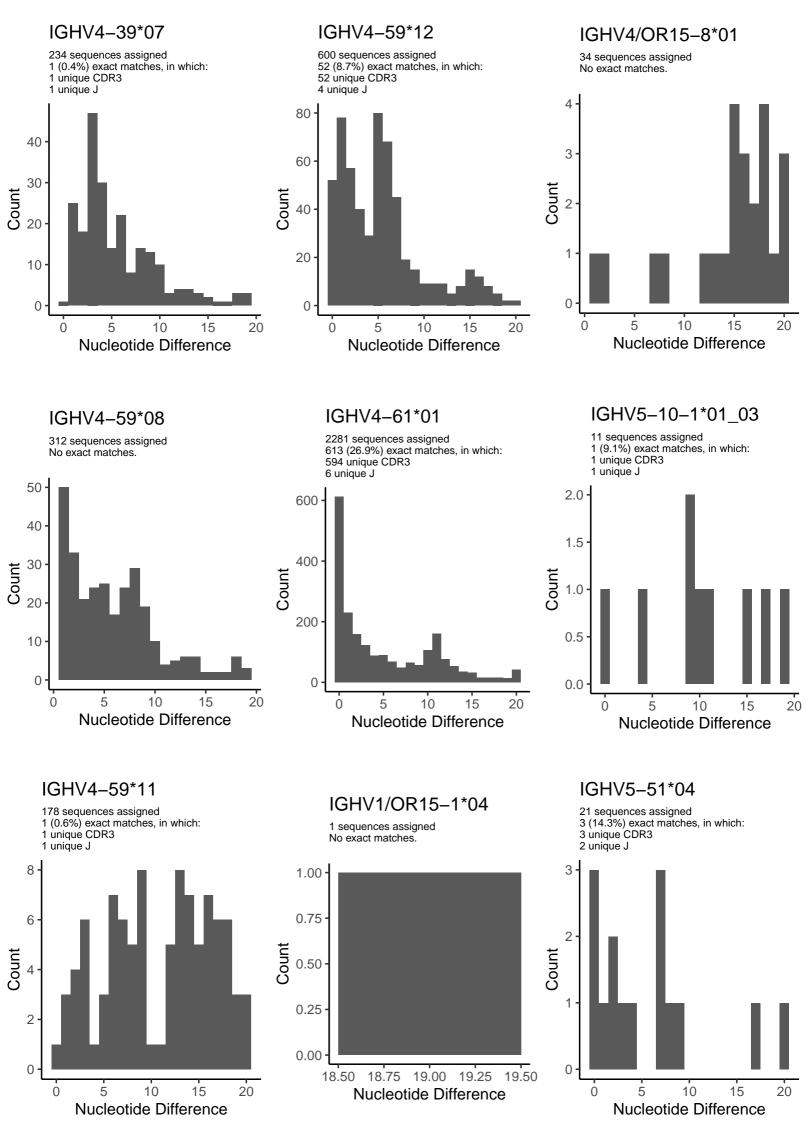












IGHV5-51*06 IGHV3/OR16-9*01 9 sequences assigned 1 (11.1%) exact matches, in which: 1 unique CDR3 1 sequences assigned No exact matches. 1 unique J 3 1.00 -0.75 2 Count Count Count 0.25 0.00 0 12.50 12.75 13.00 13.25 12 **Nucleotide Difference Nucleotide Difference** IGHV5-51*07 IGHV3/OR16-10*01_03 10 sequences assigned 5 (50%) exact matches, in which: 5 unique CDR3 1 sequences assigned No exact matches. 2 unique J 5 1.00 -4 0.75 Count 2 Count Count 2 0.25 0.00 0 9.75 10.00 10.25 10.50 9.50 10 15 0 **Nucleotide Difference Nucleotide Difference** IGHV6-1*01_02 IGHV7-4-1*02 4427 sequences assigned 3084 sequences assigned 244 (5.5%) exact matches, in which: 908 (29.4%) exact matches, in which: 233 uniqué CDR3 858 unique CDR3 6 unique J 6 unique J 250 -200 750 Count 100 150 Count 500 250 50 0 0 5 10 15 20 10 20 **Nucleotide Difference Nucleotide Difference**



