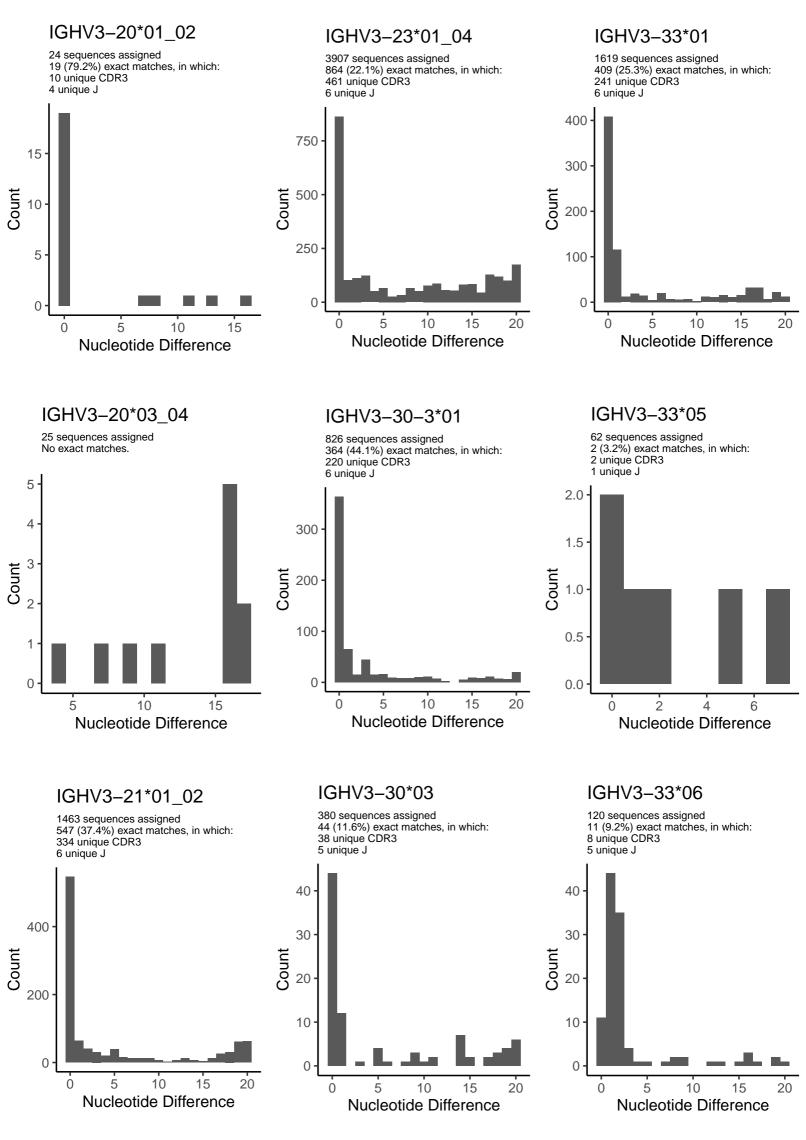
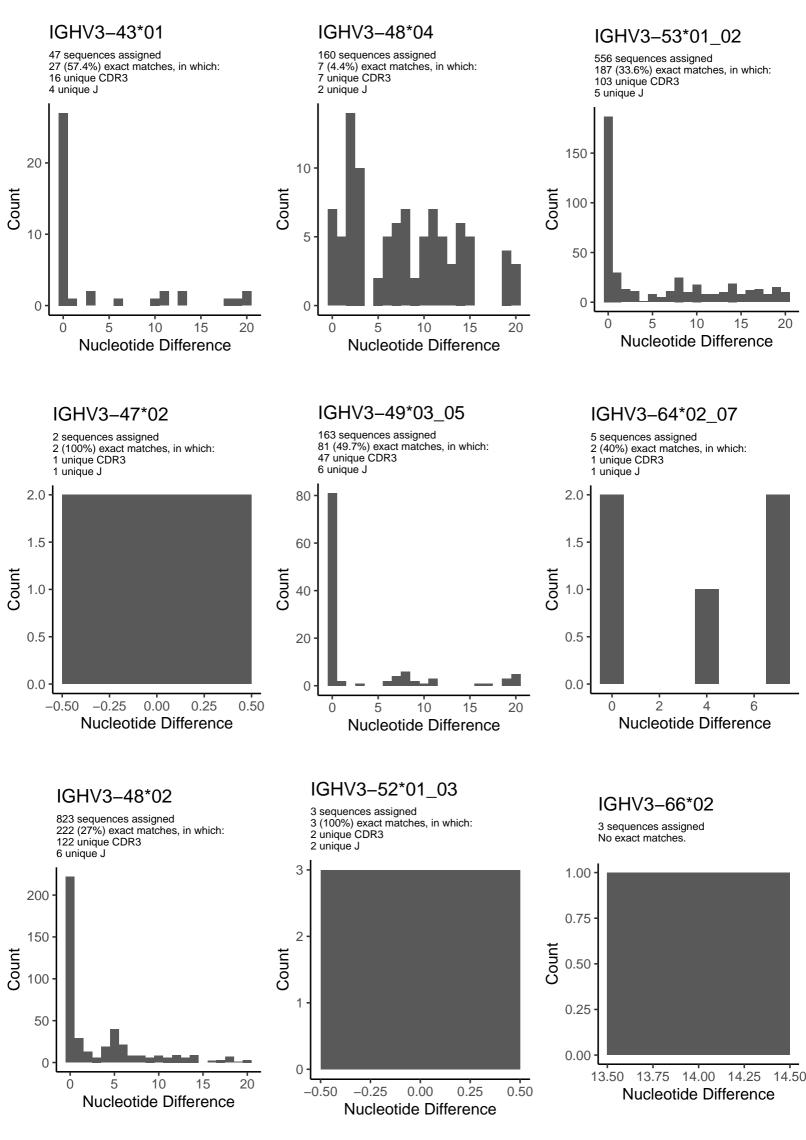
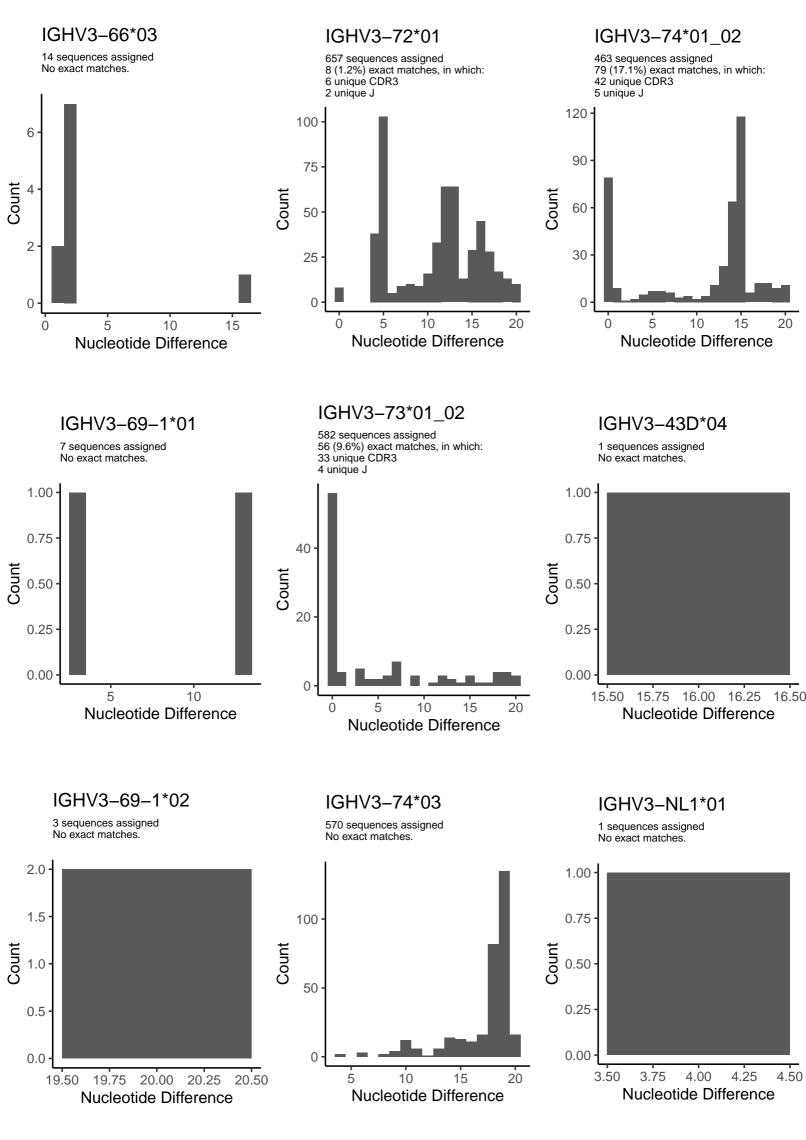
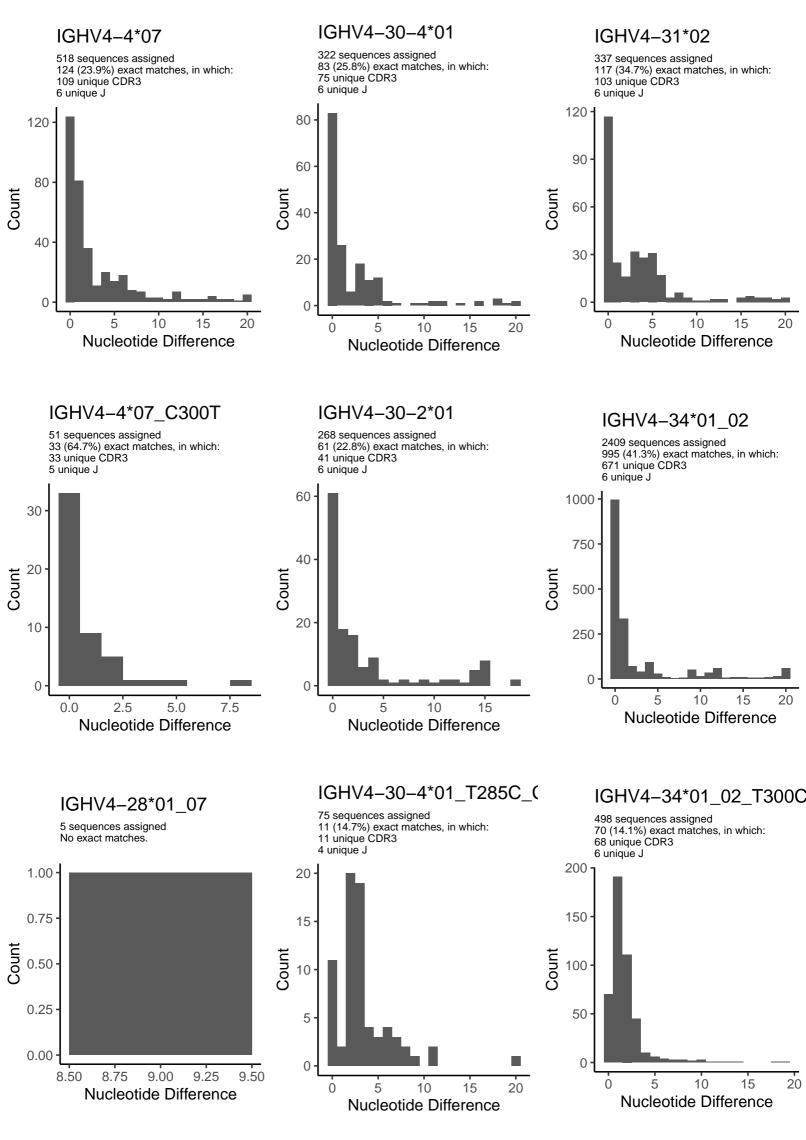


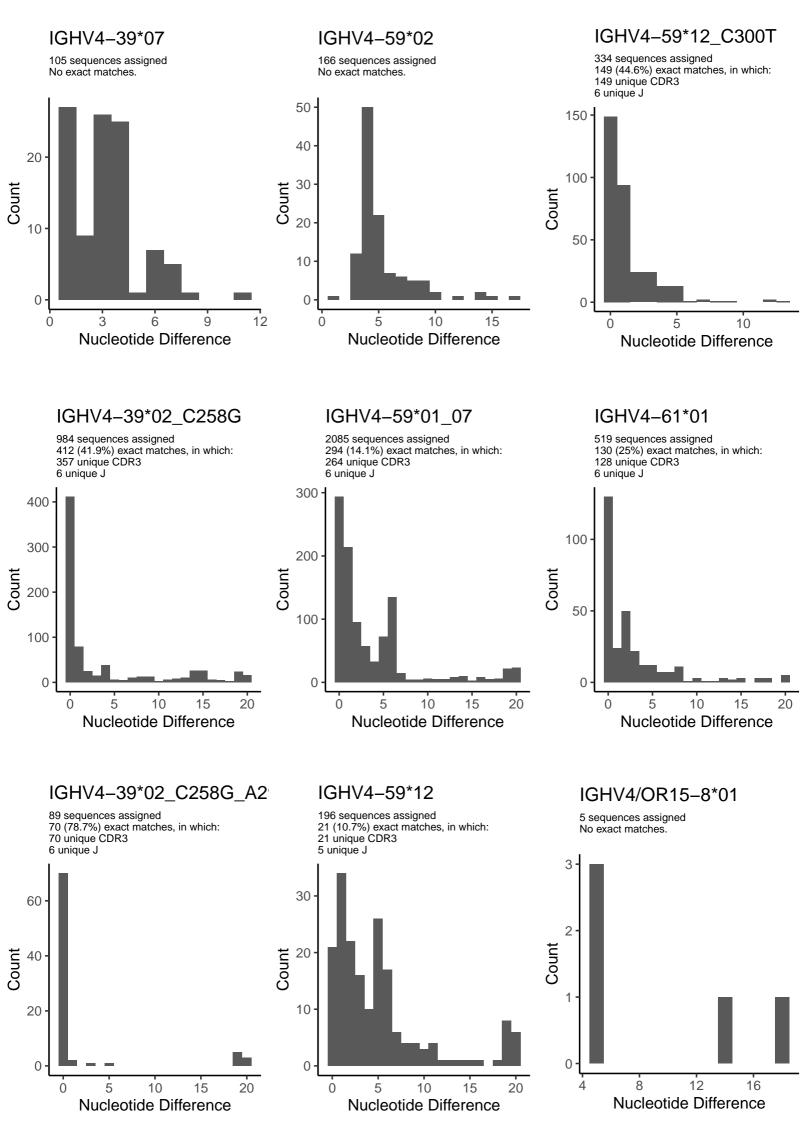
IGHV2-5*02 IGHV3-7*01 IGHV3-11*04 997 sequences assigned 4242 sequences assigned 983 sequences assigned 135 (13.7%) exact matches, in which: 88 unique CDR3 122 (12.2%) exact matches, in which: 324 (7.6%) exact matches, in which: 108 unique CDR3 202 ùniqué CDR3 6 unique J 5 unique J 6 unique J 250 300 150 200 200 150 Count Count Count 100 100 100 50 50 0 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-26*01 IGHV3-13*01 IGHV3-9*01 39 sequences assigned 285 sequences assigned 1202 sequences assigned 432 (35.9%) exact matches, in which: 28 (71.8%) exact matches, in which: 49 (17.2%) exact matches, in which: 25 unique CDR3 27 unique CDR3 232 unique CDR3 5 unique J 5 unique J 6 unique J 50 400 40 20 300 30 Count Count 200 20 10 100 10 0 0 0 20 10 15 0 5 10 15 20 10 15 20 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-70*01 IGHV3-11*01 IGHV3-15*01_02 167 sequences assigned 325 sequences assigned 566 sequences assigned 62 (37.1%) exact matches, in which: 180 (55.4%) exact matches, in which: 210 (37.1%) exact matches, in which: 52 unique CDR3 108 unique CDR3 125 unique CDR3 5 unique J 6 unique J 6 unique J 60 200 150 150 Count Count 100 100 20 50 50 0 0 0 5 10 15 20 10 20 15 0 10 15 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**





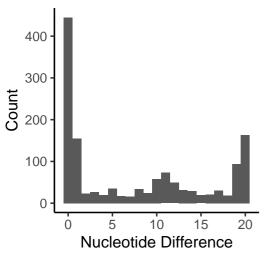






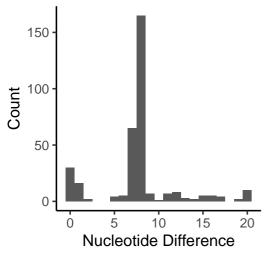
IGHV5-51*07_A128G

1741 sequences assigned 445 (25.6%) exact matches, in which: 233 unique CDR3 6 unique J



IGHV6-1*01_02

452 sequences assigned 30 (6.6%) exact matches, in which: 29 unique CDR3 5 unique J



IGHV7-4-1*02

1145 sequences assigned 142 (12.4%) exact matches, in which: 124 unique CDR3 5 unique J

