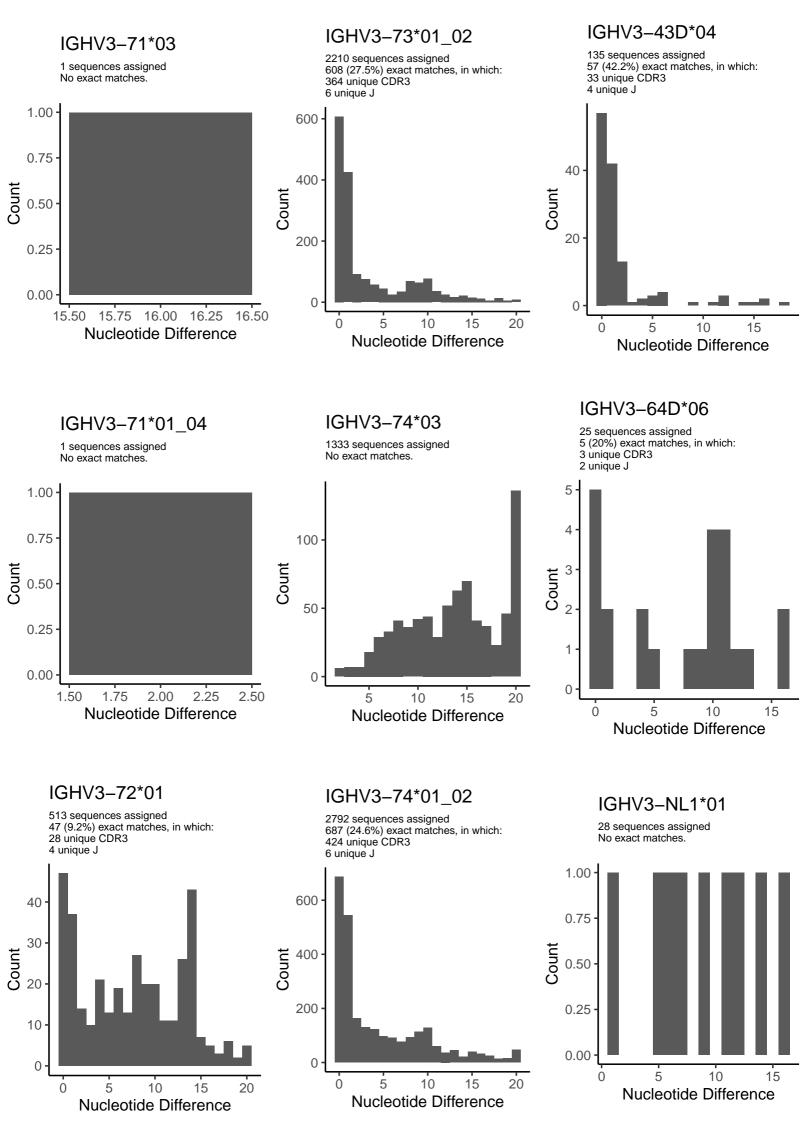
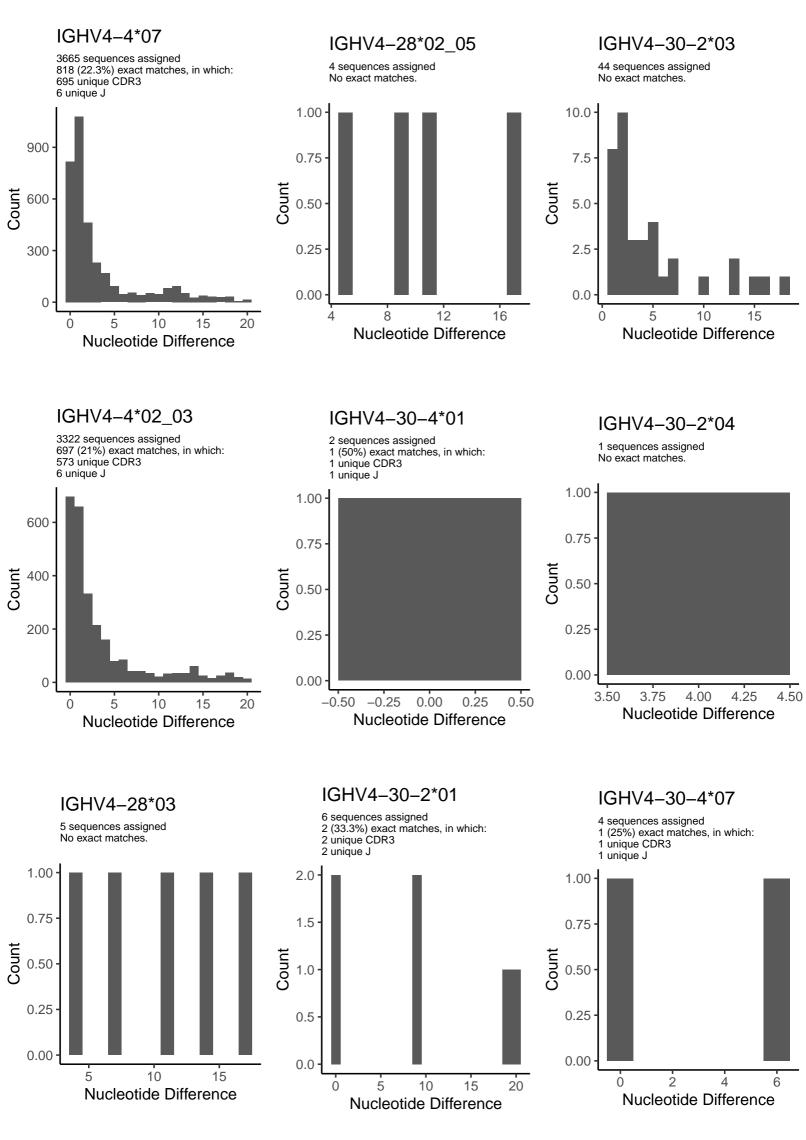
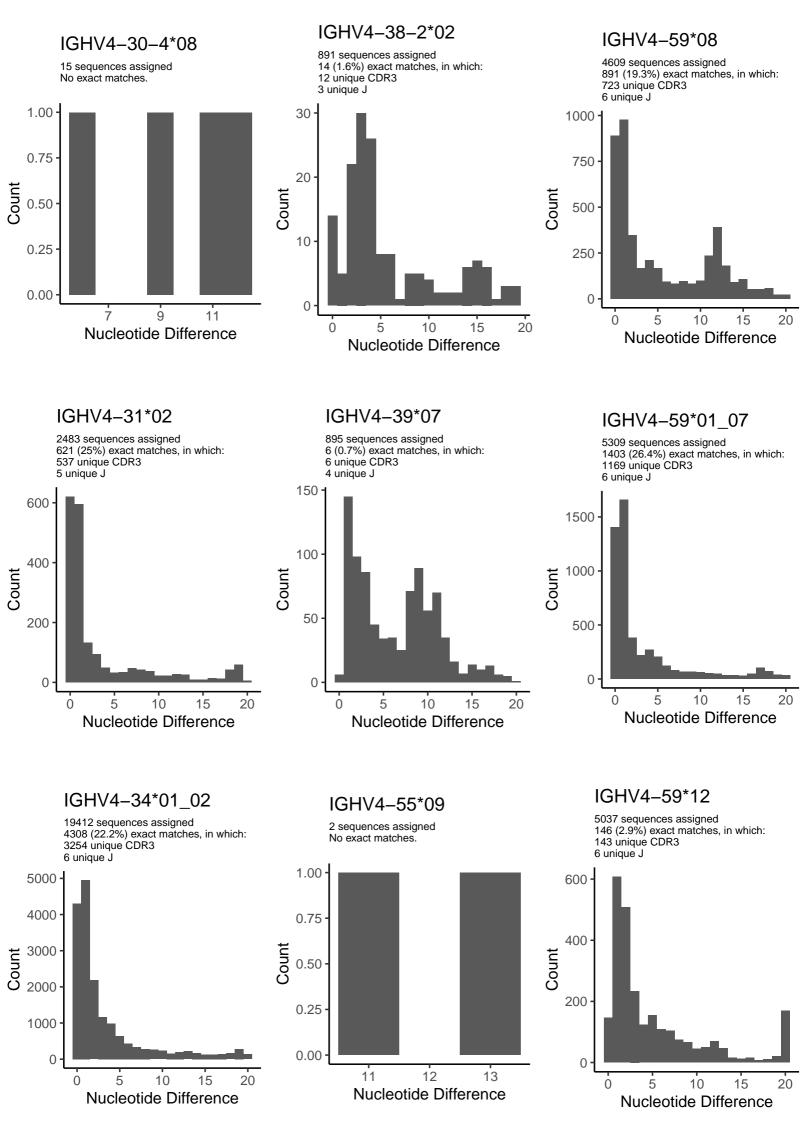
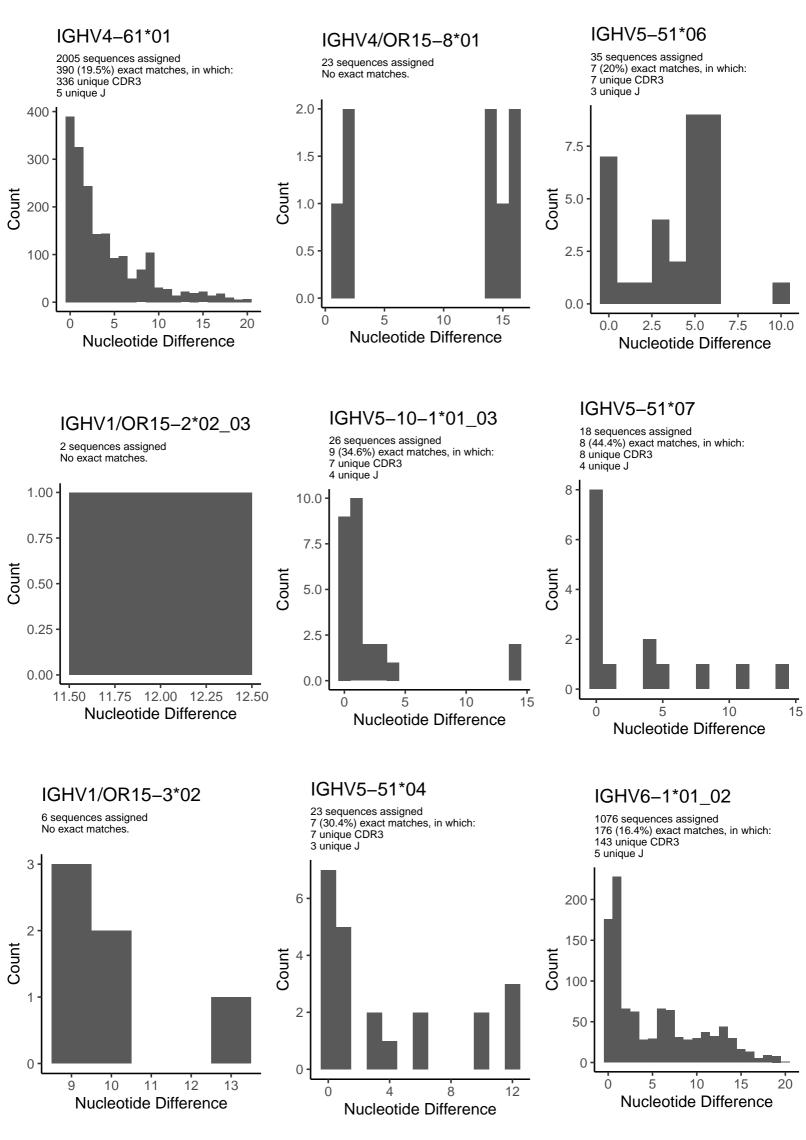


IGHV3-53*04 IGHV3-64*01 IGHV3-66*03 405 sequences assigned 503 sequences assigned 31 sequences assigned 158 (39%) exact matches, in which: 99 unique CDR3 179 (35.6%) exact matches, in which: 12 (38.7%) exact matches, in which: 115 unique CDR3 11 unique CDR3 6 unique J 5 unique J 3 unique J 12.5 150 150 10.0 100 7.5 Count 100 5.0 50 50 2.5 0.0 0 0 0 8 10 15 20 5 10 15 20 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-53*05 IGHV3-64*02 07 IGHV3-69-1*01 30 sequences assigned 2 (6.7%) exact matches, in which: 2 unique CDR3 106 sequences assigned 14 (13.2%) exact matches, in which: 53 sequences assigned 4 (7.5%) exact matches, in which: 10 unique CDR3 4 ùniqué CDR3 2 unique J 2 unique J 2 unique J 6 15 10.0 7.5 4 10 Count Count Count 5.0 5 2 2.5 0.0 0 0 5 10 15 20 0 10 15 0 10 15 5 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-69-1*02 IGHV3-53*01_02 IGHV3-66*01 17 sequences assigned 691 sequences assigned 211 (30.5%) exact matches, in which: 3709 sequences assigned 4 (23.5%) exact matches, in which: 4 unique CDR3 503 (13.6%) exact matches, in which: 128 unique CDR3 319 unique CDR3 2 unique J 6 unique J 5 unique J 800 200 3 600 150 2 400 100 200 50 1 0 0 0 10 15 20 10 15 20 0 15 20 0 5 10 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference



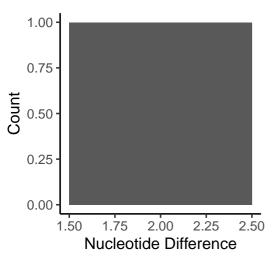






IGHV3/OR16-9*01

1 sequences assigned No exact matches.



IGHV7-4-1*01

41 sequences assigned 22 (53.7%) exact matches, in which: 18 unique CDR3 5 unique J

