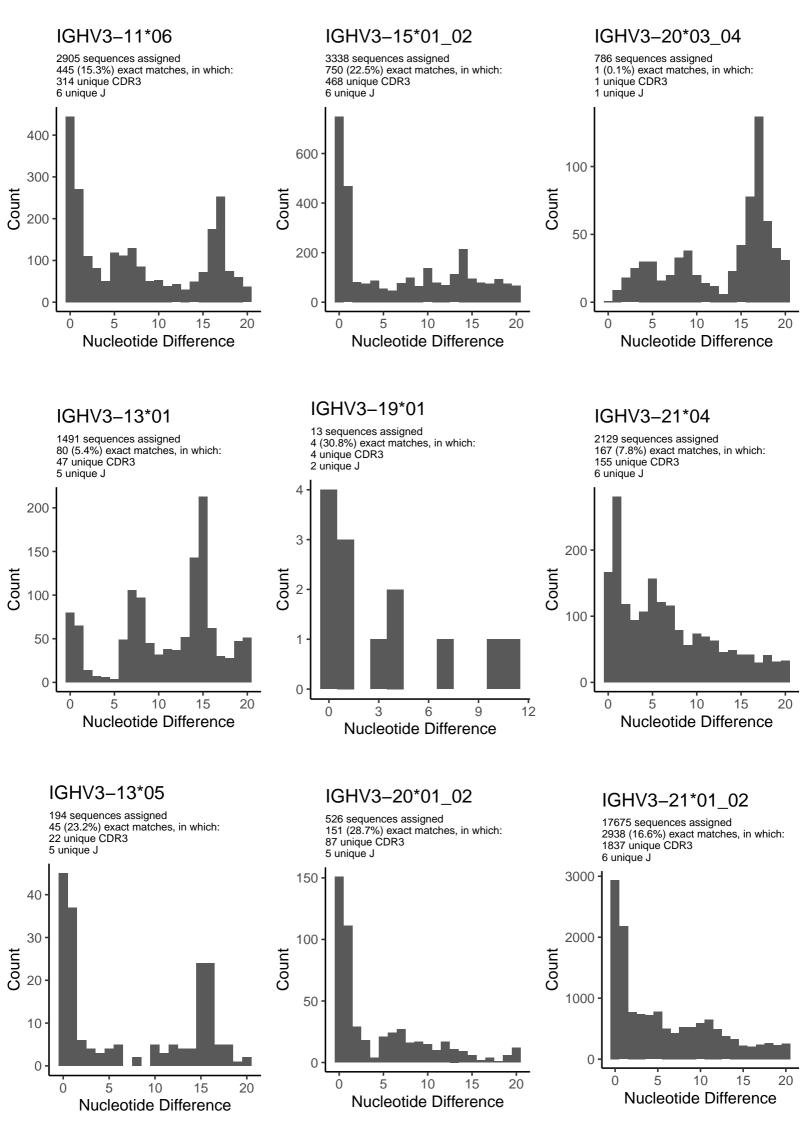
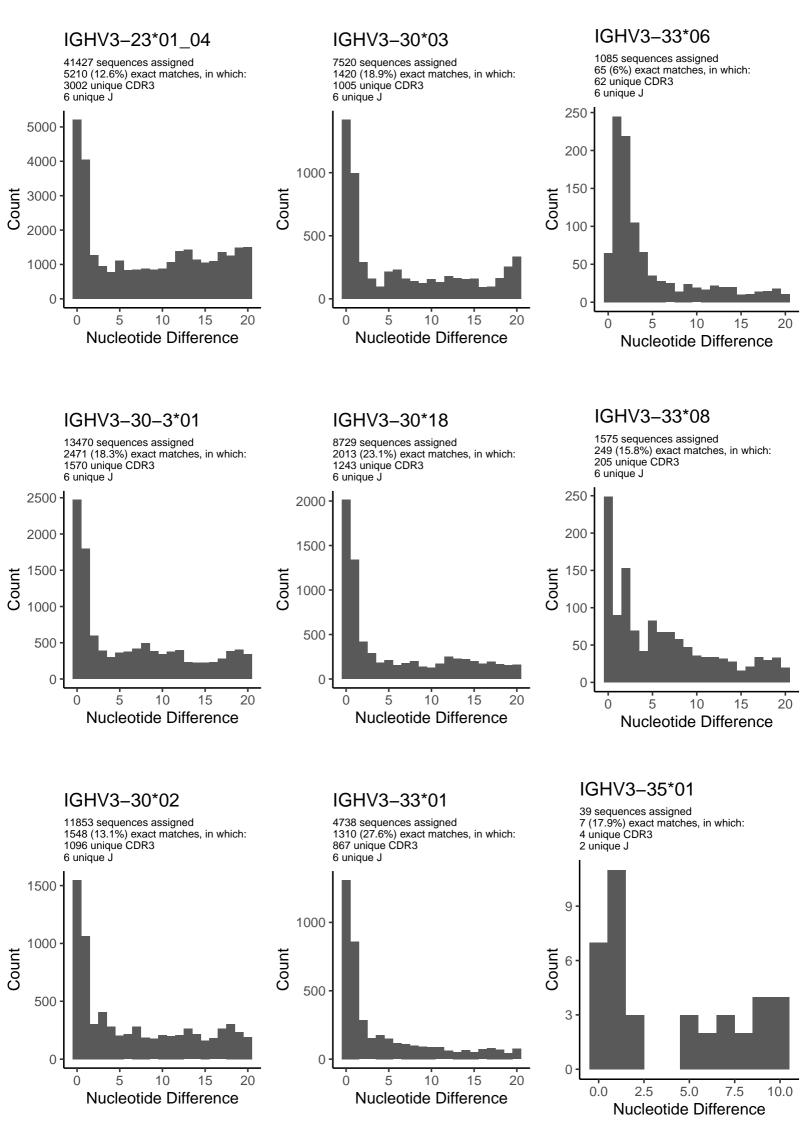
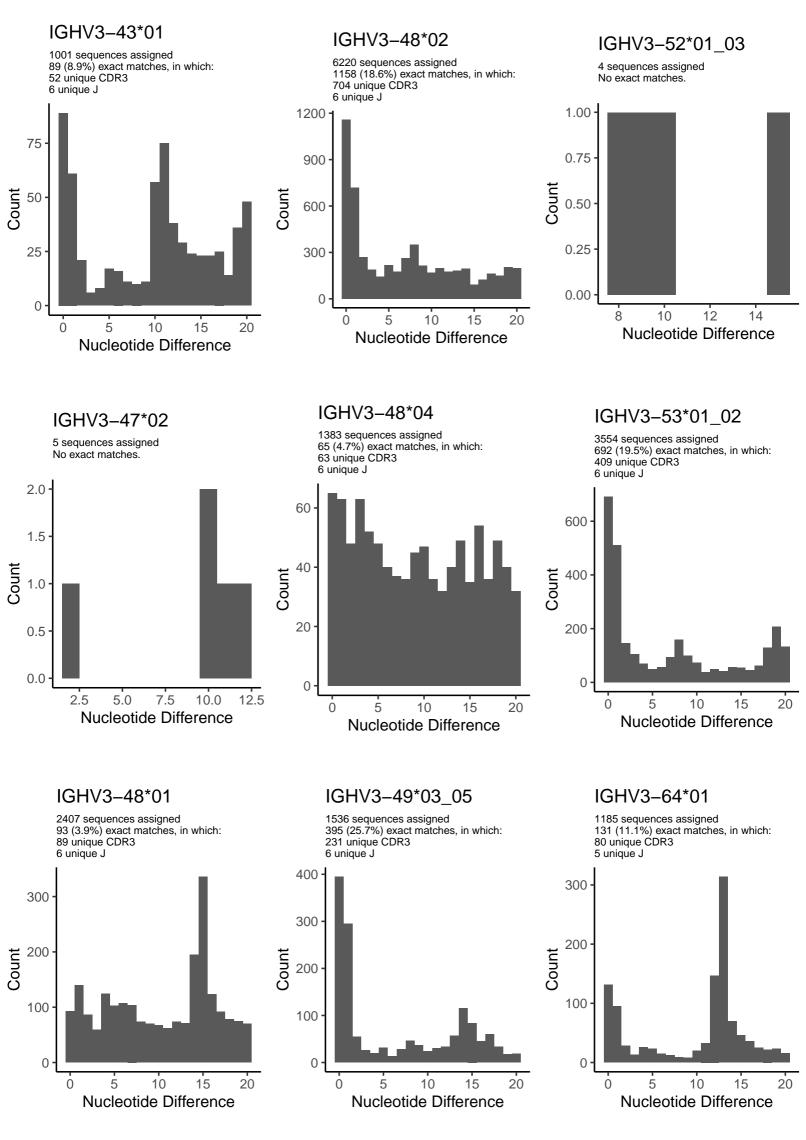


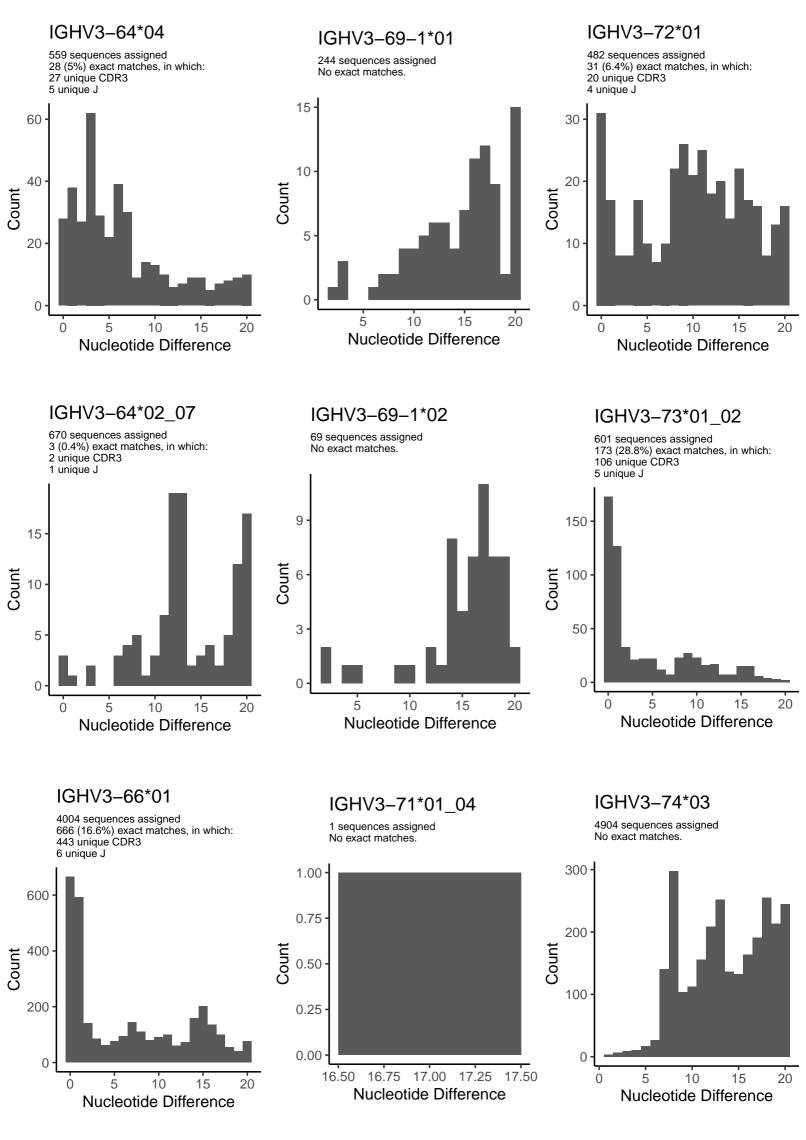
IGHV1-58*02 IGHV2-5*01 IGHV1-69*01_12_13 256 sequences assigned 921 sequences assigned 11791 sequences assigned 2935 (24.9%) exact matches, in which: 52 (20.3%) exact matches, in which: 153 (16.6%) exact matches, in which: 46 unique CDR3 129 unique CDR3 2497 unique CDR3 4 unique J 6 unique J 6 unique J 150 60 3000 100 2000 Count Count 1000 50 20 0 0 0 0 10 15 20 20 5 10 15 0 0 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-5*02 IGHV1-58*01_03 IGHV1-69*04_09 546 sequences assigned 376 sequences assigned 96 (25.5%) exact matches, in which: 4240 sequences assigned 1134 (26.7%) exact matches, in which: 57 (10.4%) exact matches, in which: 51 unique CDR3 73 unique CDR3 977 unique CDR3 6 unique J 5 unique J 6 unique J 1250 1000 100 750 Count Count 500 20 50 250 0 0 0 0 10 15 20 10 15 20 0 5 15 20 0 10 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV1-NL1*01 IGHV2-26*01 IGHV1-69-2*01 7 sequences assigned 504 sequences assigned 2 sequences assigned No exact matches. 151 (30%) exact matches, in which: No exact matches 125 unique CDR3 6 unique J 3 2.0 150 1.5 2 100 Count Count 1 50 0.5 0.0 0 18.50 18.75 19.00 19.25 19.50 10 20 10 11 12 13 0 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference

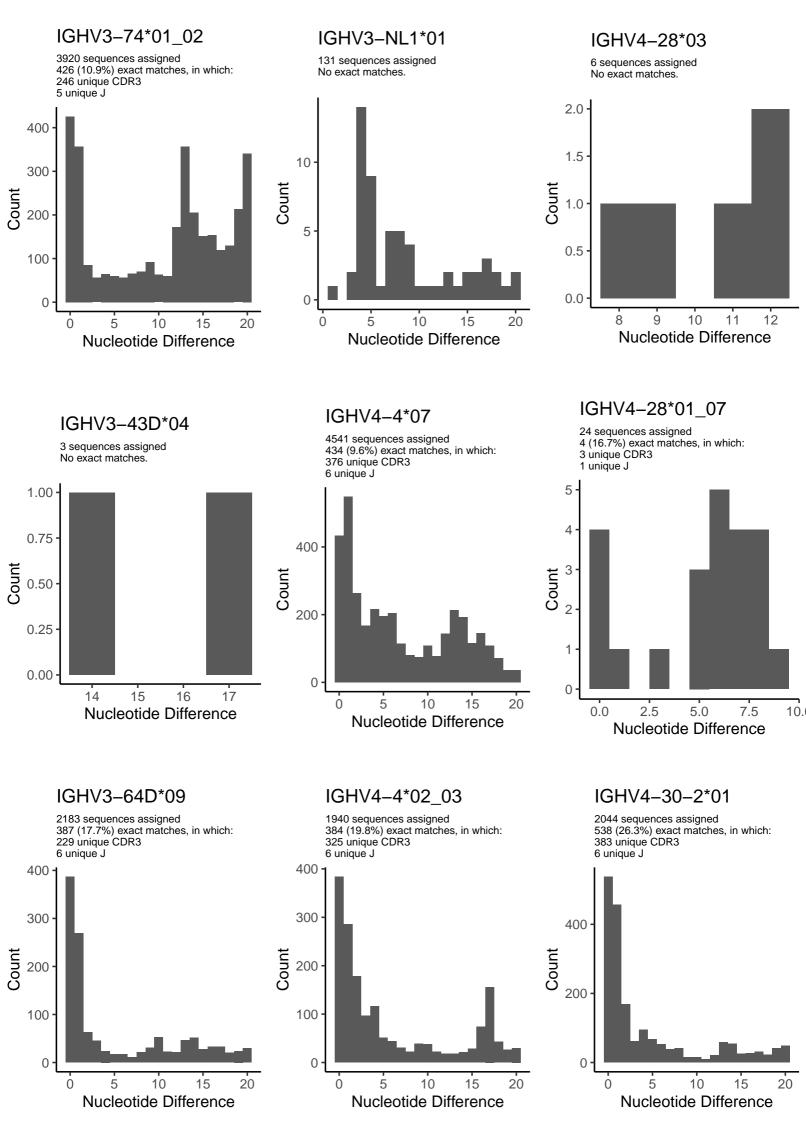
IGHV2-70*01 IGHV3-9*01 IGHV2-70D*14 675 sequences assigned 129 (19.1%) exact matches, in which: 5582 sequences assigned 2 sequences assigned 840 (15%) exact matches, in which: 1 (50%) exact matches, in which: 104 unique CDR3 494 unique CDR3 unique CDR3 6 unique J 5 unique J 1 unique J 1.00 800 0.75 600 100 Count Count 0.50 Count 400 50 0.25 200 0.00 0 0 -0.250.00 0.25 0.50 -0.505 10 15 20 5 10 15 20 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-70*12 IGHV3-7*01 IGHV3-11*01 50 sequences assigned 11602 sequences assigned 863 (7.4%) exact matches, in which: 4096 sequences assigned 3 (6%) exact matches, in which: 731 (17.8%) exact matches, in which: 2 unique CDR3 614 unique CDR3 489 unique CDR3 2 unique J 6 unique J 6 unique J 750 600 10 Count Count 500 Count 400 5 250 200 0 0 0 5 10 15 20 10 15 20 0 0 5 10 15 0 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11*04 IGHV2-70*11_15 IGHV3-7*03 954 sequences assigned 901 sequences assigned 8137 sequences assigned 95 (10%) exact matches, in which: 165 (18.3%) exact matches, in which: 702 (8.6%) exact matches, in which: 92 unique CDR3 470 unique CDR3 132 unique CDR3 6 unique J 6 unique J 6 unique J 600 150 Count Count Count 400 60 100 200 50 30 0 0 0 10 15 20 5 10 15 20 0 5 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**

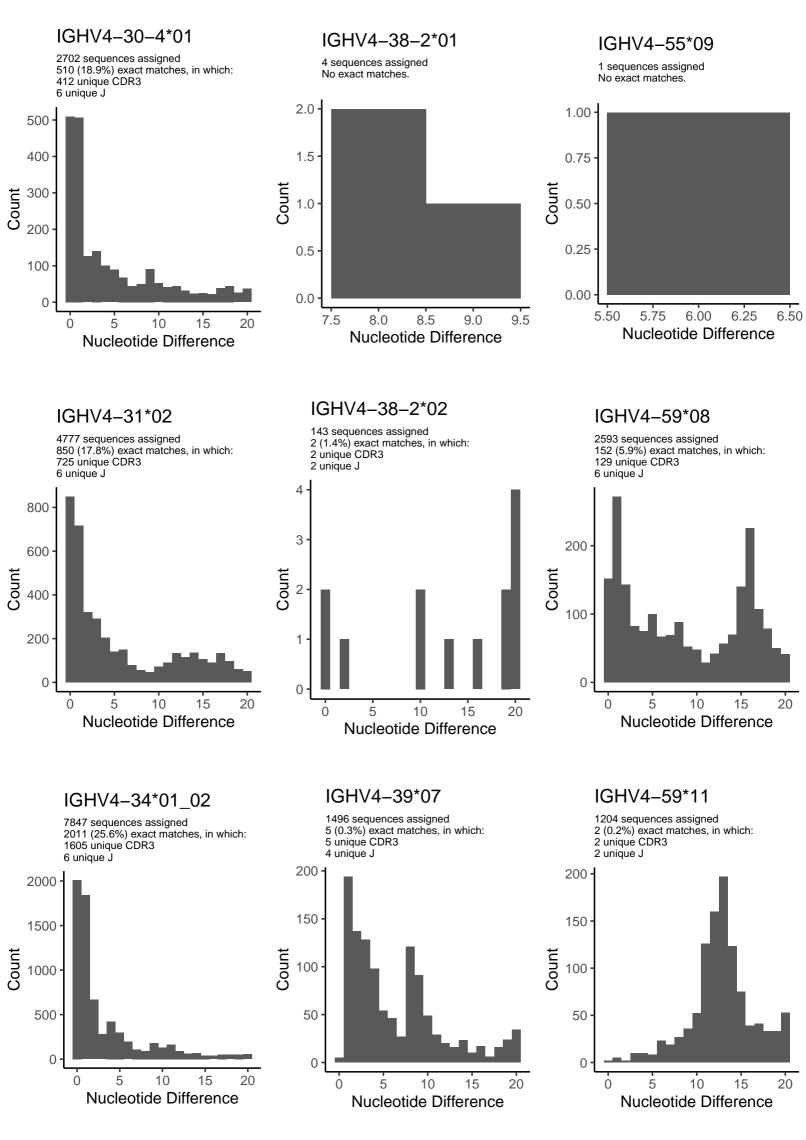


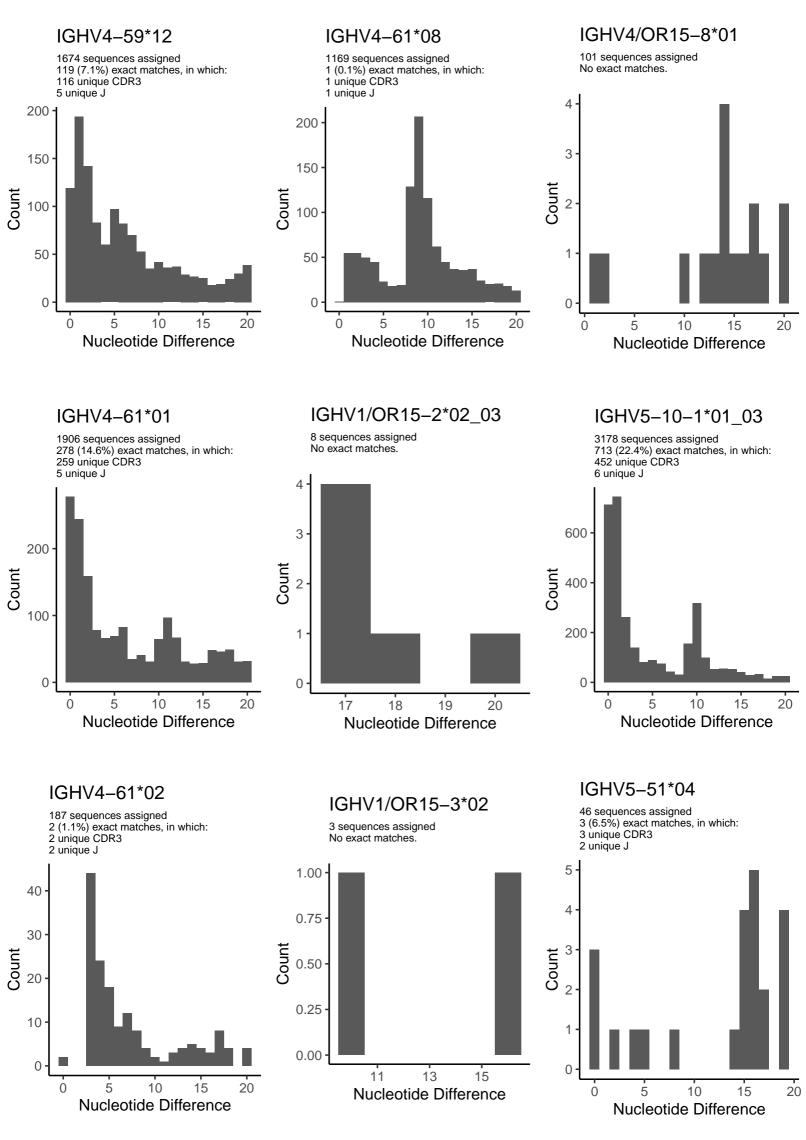












IGHV5-51*06 IGHV3/OR16-9*01 18 sequences assigned 4 (22.2%) exact matches, in which: 4 unique CDR3 2 sequences assigned No exact matches. 3 unique J 1.00 -0.75 3 Count Count Count 2 0.25 1 0.00 0 6.5 7.0 7.5 8.0 8.5 10 **Nucleotide Difference Nucleotide Difference** IGHV5-51*07 IGHV3/OR16-13*01 15 sequences assigned 3 (20%) exact matches, in which: 3 unique CDR3 5 sequences assigned No exact matches. 2 unique J 3 1.00 -0.75 Count Count 0.25 0.00 0 14.75 15.00 15.25 15.50 14.50 0 10 15 **Nucleotide Difference Nucleotide Difference** IGHV7-4-1*01 IGHV6-1*01_02 58 sequences assigned 1309 sequences assigned 19 (32.8%) exact matches, in which: 160 (12.2%) exact matches, in which: 11 unique CDR3 142 unique CDR3 4 unique J 6 unique J 20 15 200 Count 10 100 5 0 10 15 20 10 0 15 20 **Nucleotide Difference** Nucleotide Difference



