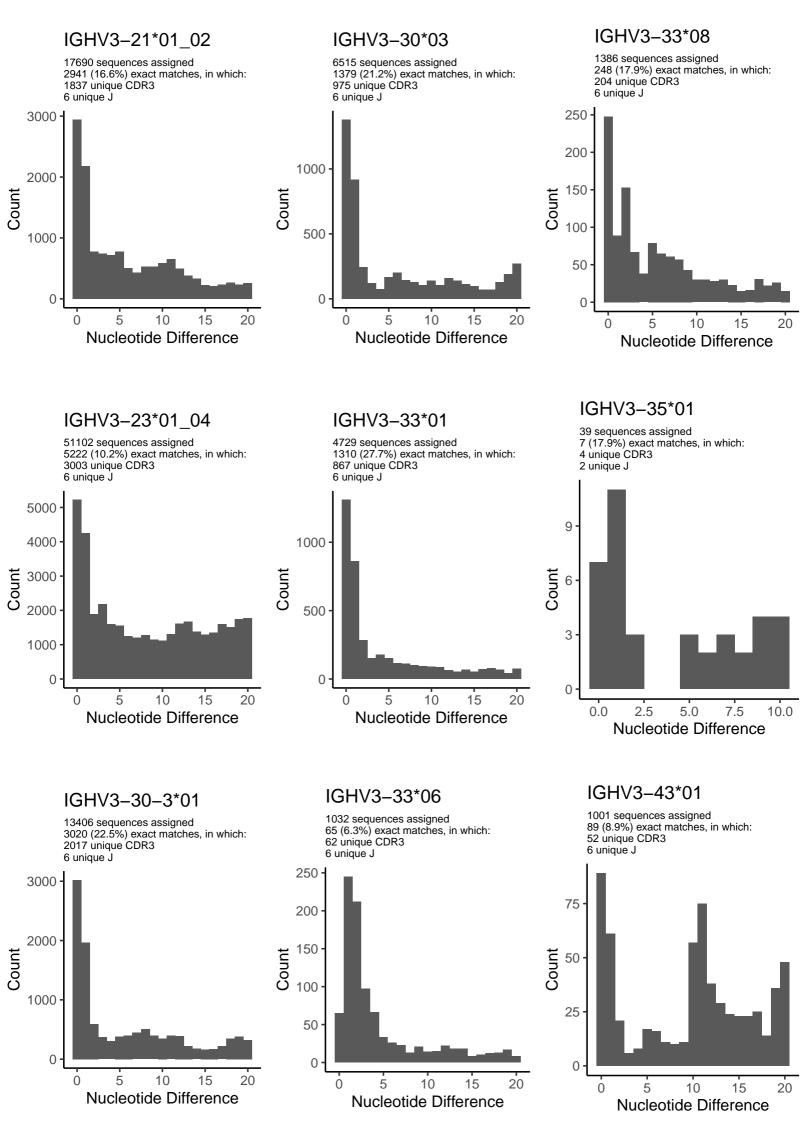
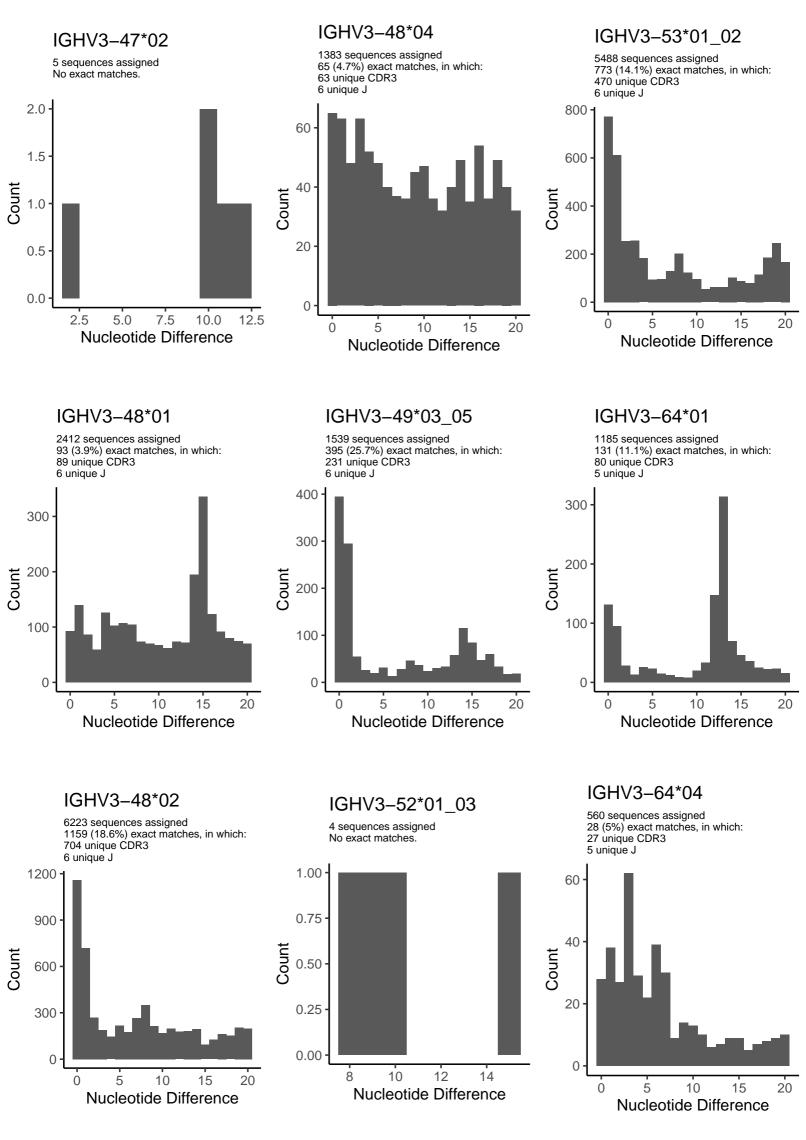
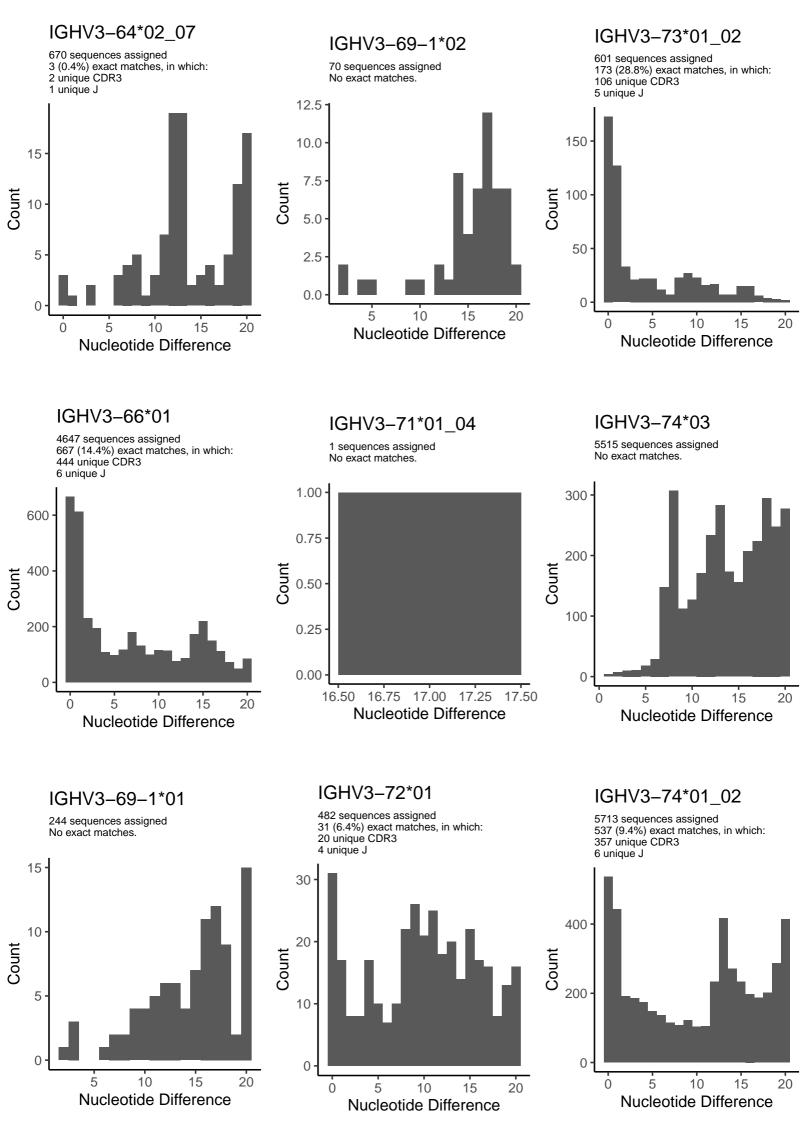


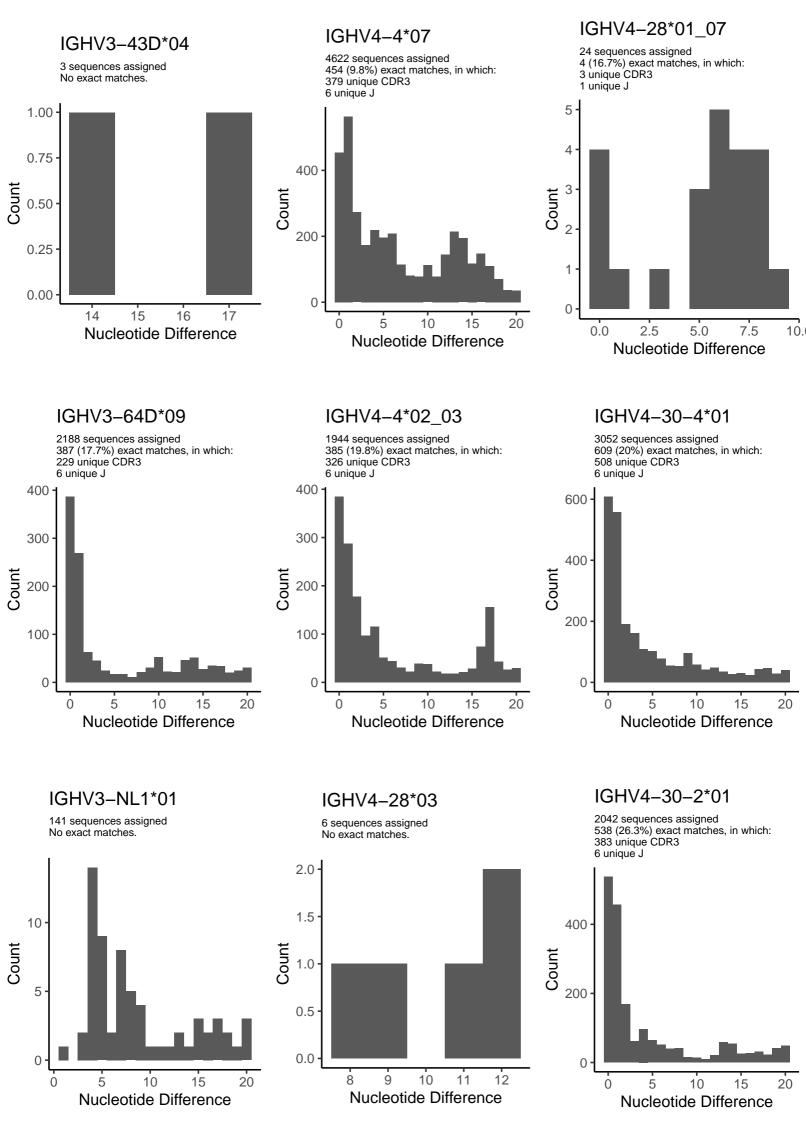
IGHV2-70*11_15 IGHV2-26*01 IGHV3-7*03 862 sequences assigned 165 (19.1%) exact matches, in which: 8144 sequences assigned 504 sequences assigned 151 (30%) exact matches, in which: 702 (8.6%) exact matches, in which: 125 unique CDR3 470 unique CDR3 132 unique CDR3 6 unique J 6 unique J 6 unique J 600 150 100 Count Count 400 100 50 200 50 0 0 0 20 10 15 20 5 10 15 20 5 10 15 0 5 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-70*01 IGHV3-9*01 IGHV2-70D*04 674 sequences assigned 129 (19.1%) exact matches, in which: 6 sequences assigned 5593 sequences assigned 841 (15%) exact matches, in which: 1 (16.7%) exact matches, in which: 494 unique CDR3 104 unique CDR3 unique CDR3 5 unique J 1 unique J 6 unique J 1.00 800 0.75 600 100 Count Count 0.50 400 50 0.25 200 0.00 0 0 20 15 5 10 15 20 0 10 20 0 5 10 0 5 15 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV2-70*12 IGHV3-7*01 IGHV3-11*01 50 sequences assigned 11616 sequences assigned 4110 sequences assigned 3 (6%) exact matches, in which: 863 (7.4%) exact matches, in which: 734 (17.9%) exact matches, in which: 2 unique CDR3 490 unique CDR3 614 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 20 0 0 15 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference

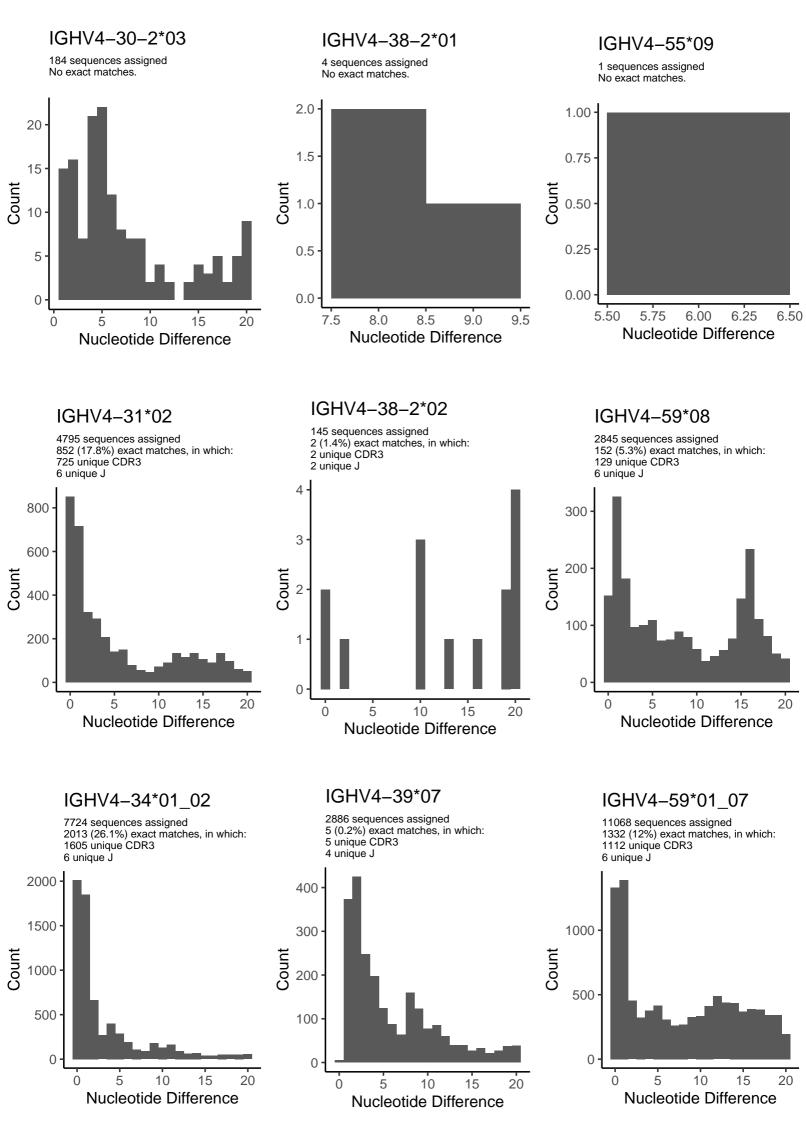
IGHV3-11*04 IGHV3-13*05 IGHV3-20*01_02 310 sequences assigned 528 sequences assigned 151 (28.6%) exact matches, in which: 87 unique CDR3 955 sequences assigned 95 (9.9%) exact matches, in which: 69 (22.3%) exact matches, in which: 92 unique CDR3 44 unique CDR3 5 unique J 6 unique J 5 unique J 60 90 100 Count 40 Count 60 50 20 30 0 0 0 5 10 15 20 0 0 10 15 20 10 15 20 5 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11*06 IGHV3-15*01_02 IGHV3-20*03_04 797 sequences assigned 1 (0.1%) exact matches, in which: 3353 sequences assigned 2907 sequences assigned 445 (15.3%) exact matches, in which: 756 (22.5%) exact matches, in which: 314 unique CDR3 469 unique CDR3 1 unique CDR3 6 unique J 6 unique J 1 unique J 400 600 100 300 Count Count 400 200 50 200 100 0 0 20 10 15 20 10 15 10 20 0 5 0 5 0 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-19*01 IGHV3-13*01 IGHV3-21*04 13 sequences assigned 1845 sequences assigned 2129 sequences assigned 4 (30.8%) exact matches, in which: 4 unique CDR3 91 (4.9%) exact matches, in which: 167 (7.8%) exact matches, in which: 155 unique CDR3 58 unique CDR3 2 unique J 5 unique J 6 unique J 200 3 200 150 Count 2 100 100 1 50 0 0 0 10 15 20 10 15 20 0 0 3 6 9 12 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference

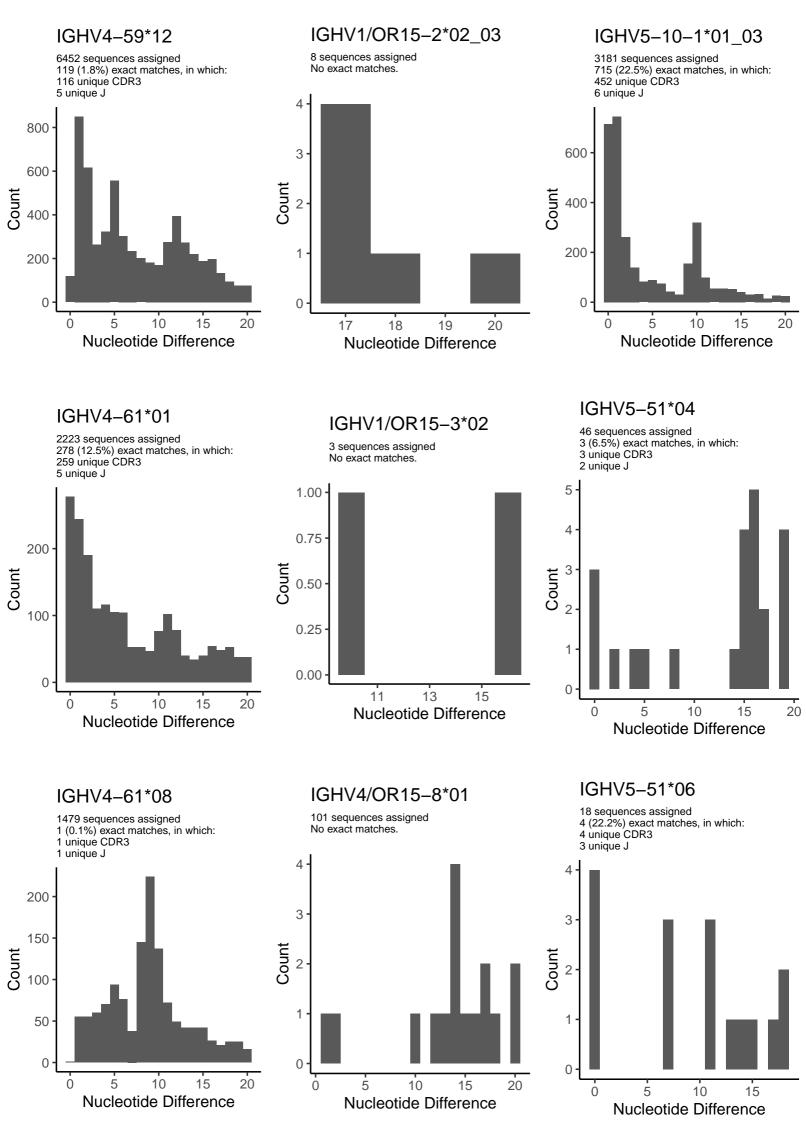




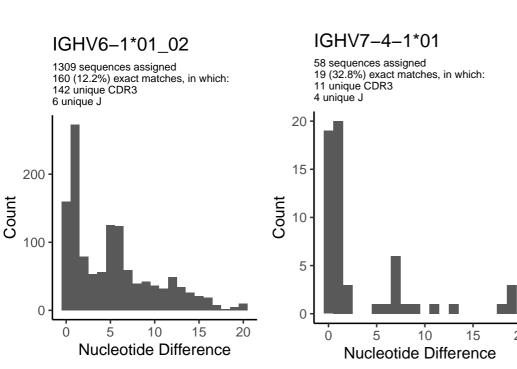






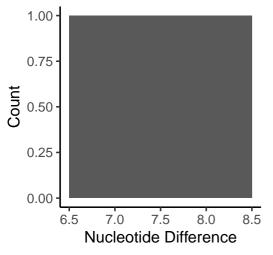


IGHV5-51*07 IGHV3/OR16-13*01 15 sequences assigned 3 (20%) exact matches, in which: 3 unique CDR3 5 sequences assigned No exact matches. 2 unique J 1.00 -0.75 2 Count Count Count 0.25 0.00 0 14.50 14.75 15.00 15.25 0 **Nucleotide Difference Nucleotide Difference** IGHV7-4-1*01 IGHV6-1*01_02 58 sequences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





2 sequences assigned No exact matches.





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