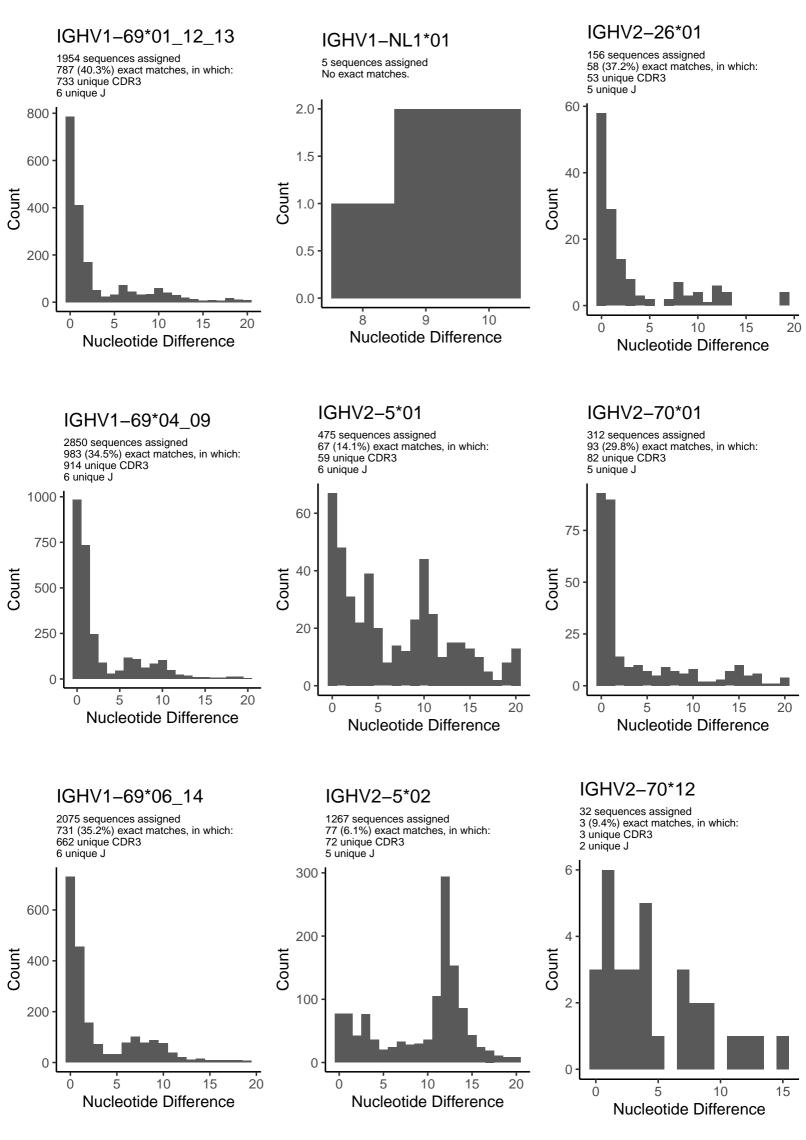
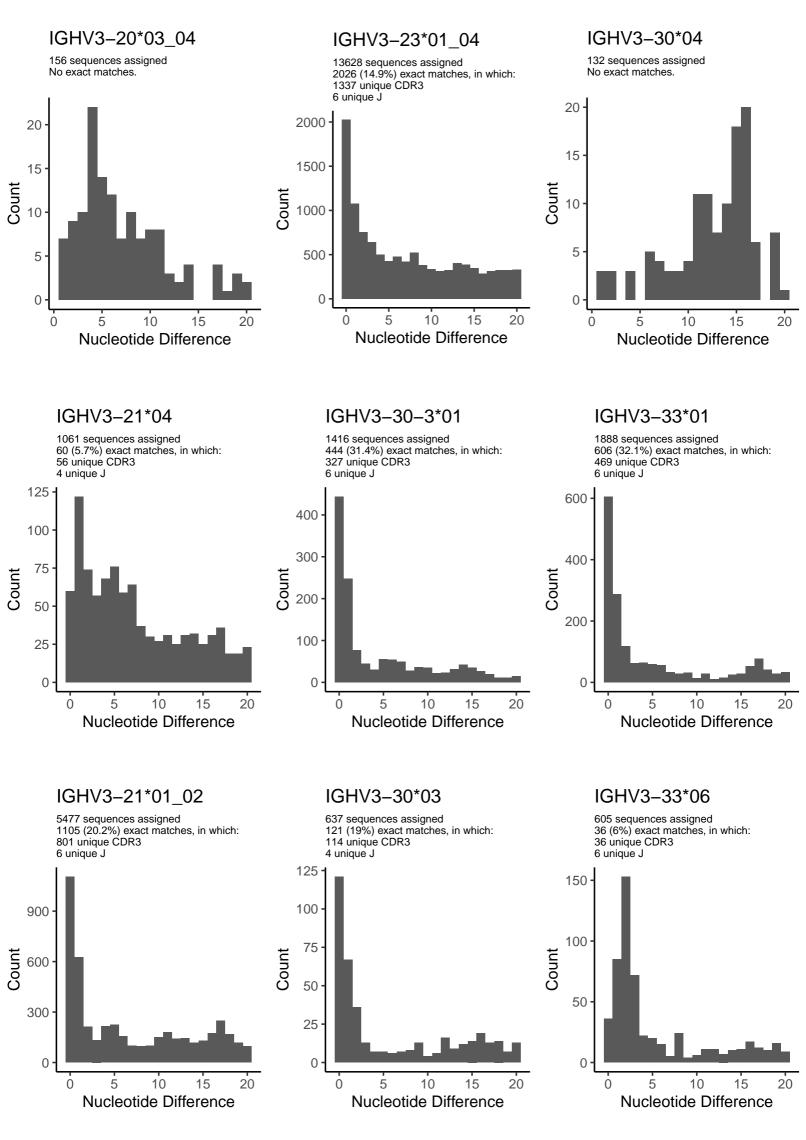
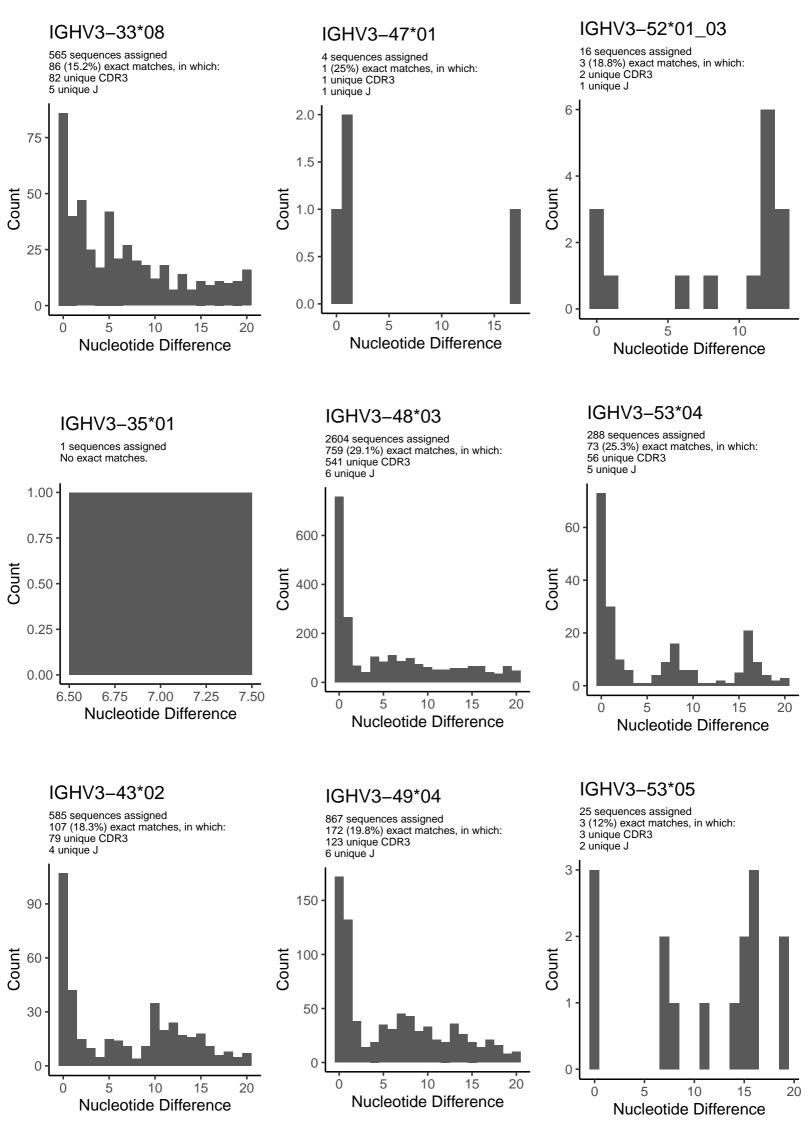
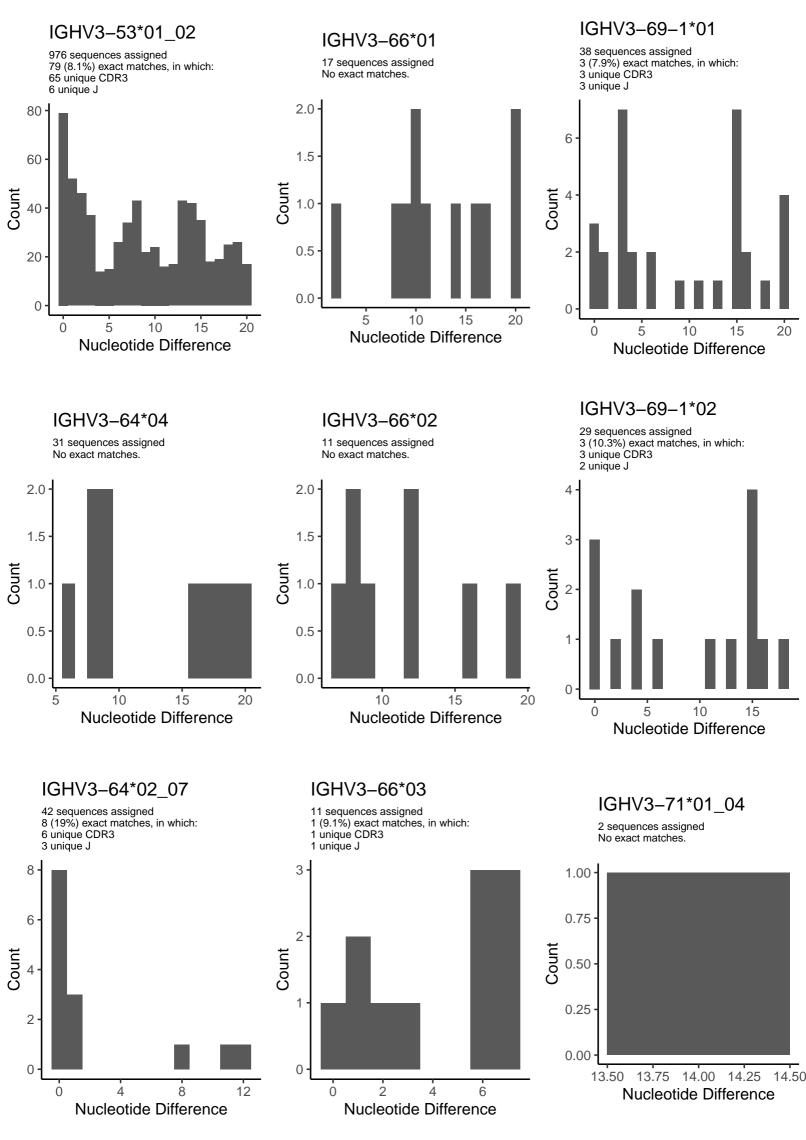
IGHV1-2*02 IGHV1-46*01 IGHV1-8*01 5490 sequences assigned 1889 sequences assigned 4085 sequences assigned 1013 (24.8%) exact matches, in which: 729 (13.3%) exact matches, in which: 525 (27.8%) exact matches, in which: 490 unique CDR3 673 unique CDR3 927 unique CDR3 6 unique J 6 unique J 6 unique J 1000 500 600 400 750 Count 300 400 500 200 200 250 100 0 0 0 0 10 15 20 5 10 15 20 5 10 15 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-2*04 IGHV1-58*01_03 IGHV1-18*01 341 sequences assigned 119 (34.9%) exact matches, in which: 727 sequences assigned 265 (36.5%) exact matches, in which: 6955 sequences assigned 1257 (18.1%) exact matches, in which: 243 unique CDR3 106 unique CDR3 1103 unique CDR3 6 unique J 4 unique J 6 unique J 1200 100 200 800 75 Count Count 50 100 400 25 0 0 0 0 10 20 10 15 20 5 10 15 20 0 0 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV1-3*01_05 IGHV1-24*01 IGHV1-69-2*01 1114 sequences assigned 558 sequences assigned sequences assigned 227 (20.4%) exact matches, in which: 177 (31.7%) exact matches, in which: 1 (14.3%) exact matches, in which: 209 unique CDR3 167 unique CDR3 1 unique CDR3 6 unique J 6 unique J 1 unique J 1.00 200 150 0.75 150 100 0.50 100 50 0.25 50 0.00 0 0 -0.250.00 0.25 0.50 -0.5010 15 20 10 15 5 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**

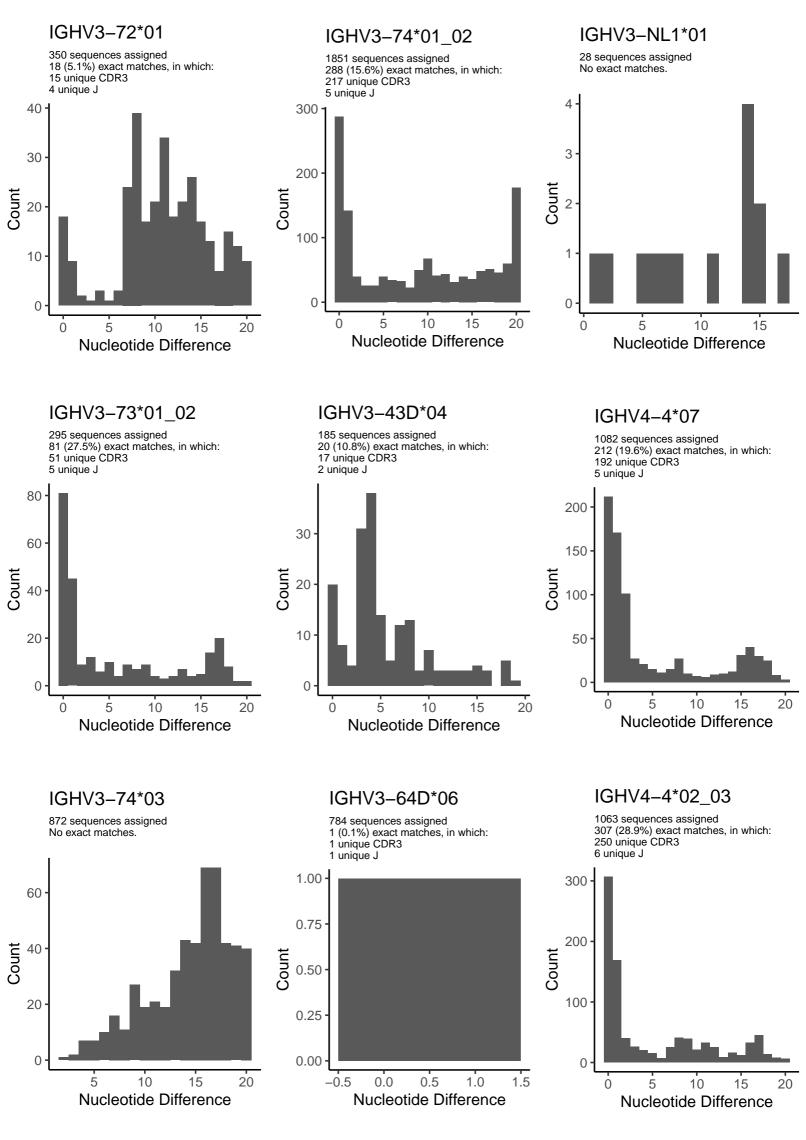


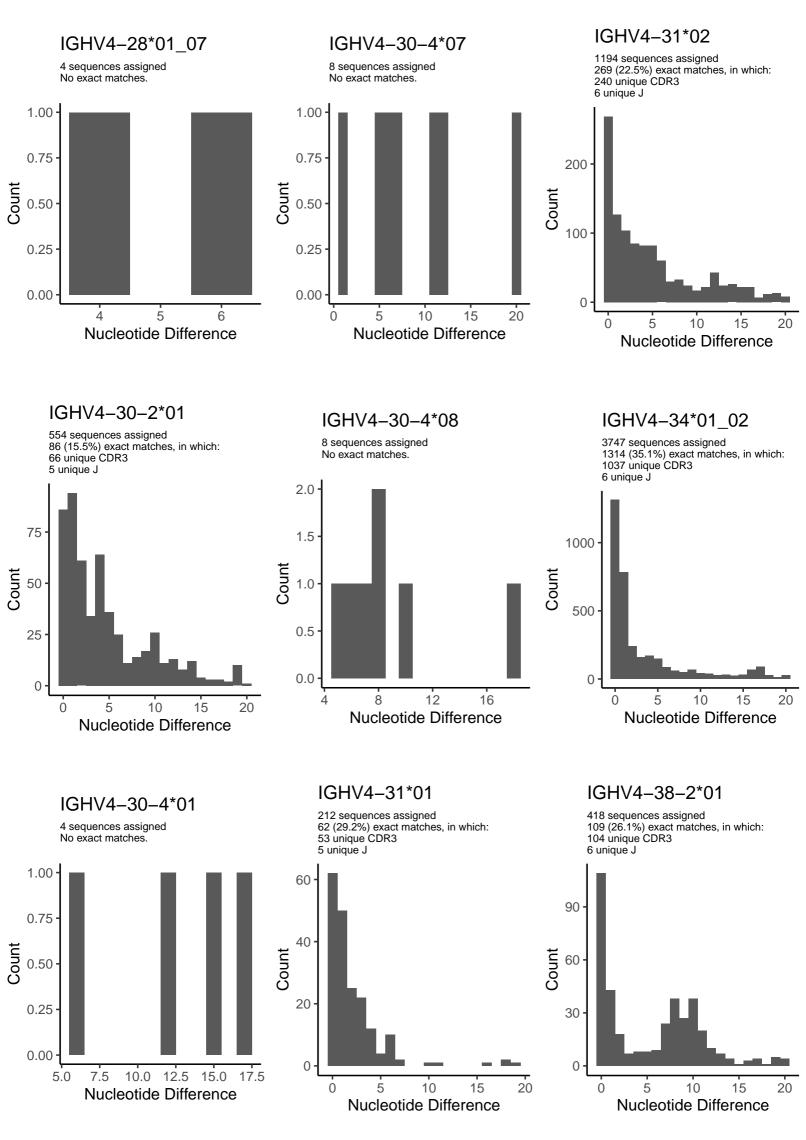
IGHV3-15*01_02 IGHV3-7*01 IGHV3-11*01 6925 sequences assigned 716 (10.3%) exact matches, in which: 1470 sequences assigned 2198 sequences assigned 274 (18.6%) exact matches, in which: 532 (24.2%) exact matches, in which: 404 unique CDR3 193 unique CDR3 537 unique CDR3 6 unique J 6 unique J 6 unique J 600 400 200 Count Count Count 400 200 100 200 0 0 0 15 5 10 20 5 10 15 20 5 10 15 20 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-19*01 IGHV3-7*03 IGHV3-11*04 4 sequences assigned 478 sequences assigned 106 (22.2%) exact matches, in which: 1344 sequences assigned 67 (5%) exact matches, in which: 3 (75%) exact matches, in which: 2 unique CDR3 54 unique CDR3 102 unique CDR3 1 unique J 4 unique J 5 unique J 3 120 100 75 2 80 Count Count 50 40 25 0 0 0 10 15 20 10 15 20 0 5 0 5 0.0 0.5 1.0 1.5 -0.5**Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-20*01_02 IGHV3-9*01 IGHV3-13*01 130 sequences assigned 4081 sequences assigned 908 sequences assigned 35 (26.9%) exact matches, in which: 671 (16.4%) exact matches, in which: 104 (11.5%) exact matches, in which: 28 unique CDR3 477 unique CDR3 84 unique CDR3 4 unique J 6 unique J 5 unique J 100 600 30 75 400 Count Count 20 50 200 10 25 0 0 0 5 10 15 20 5 10 15 20 0 10 15 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

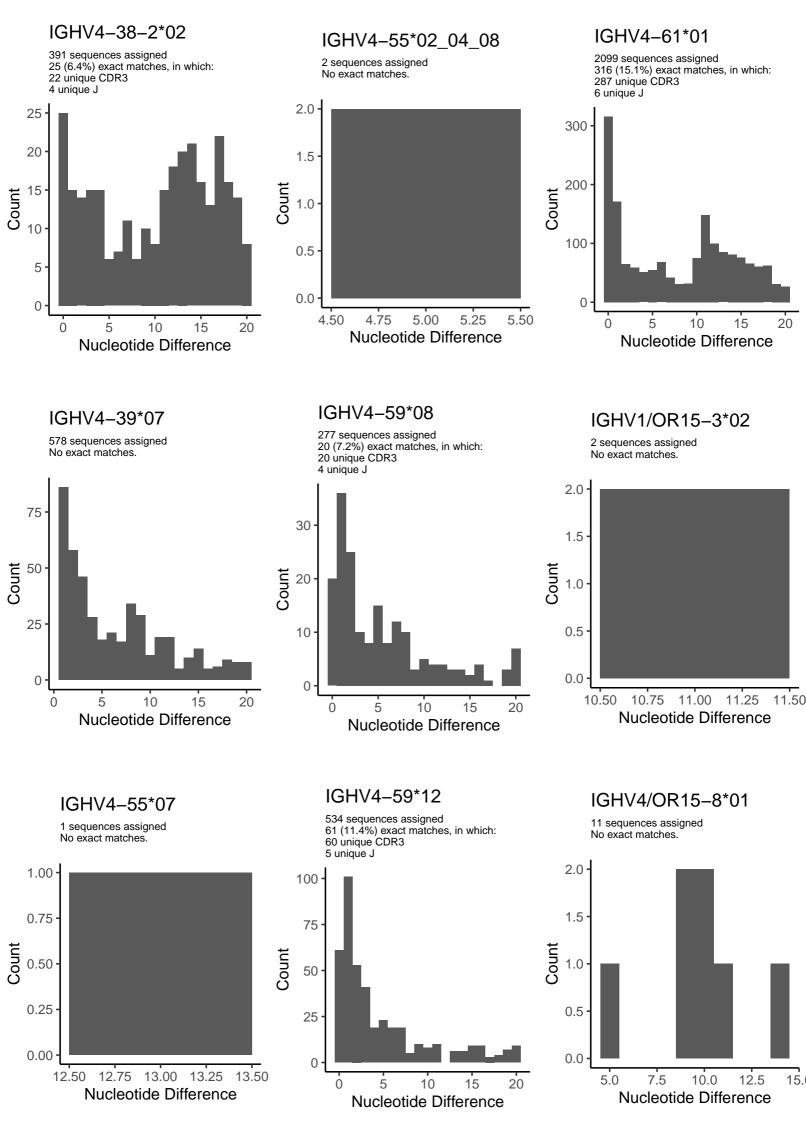


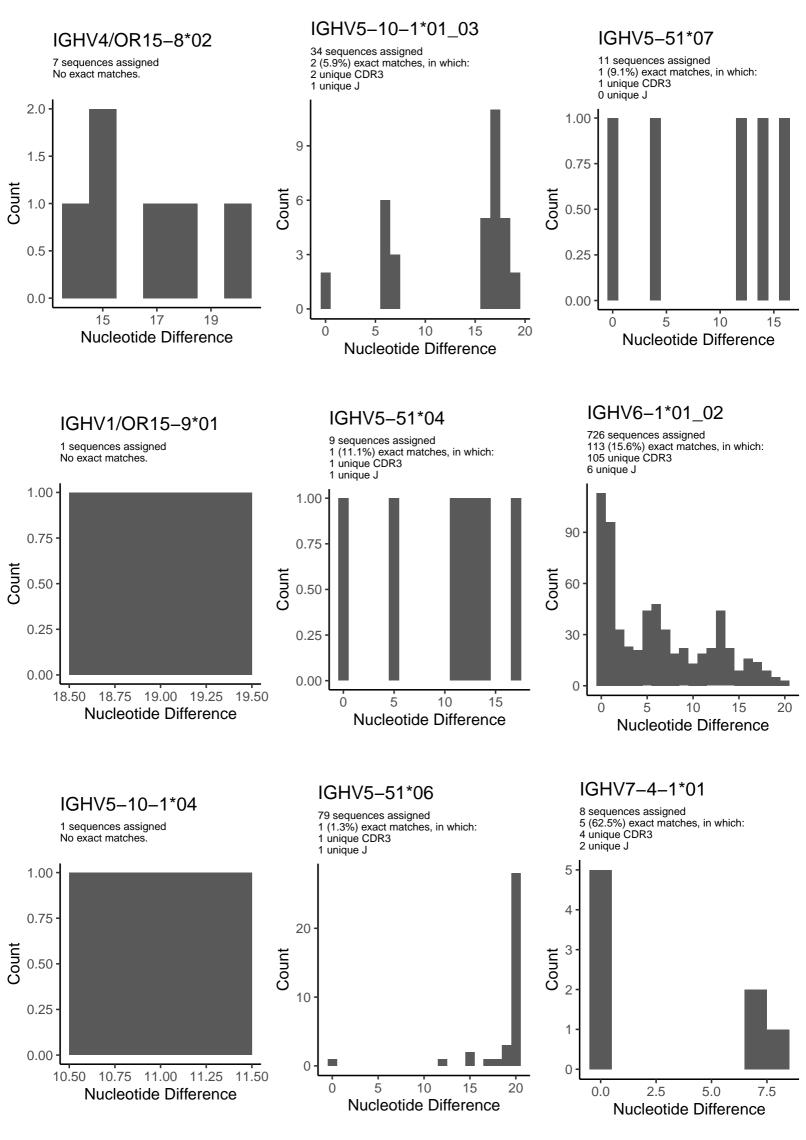






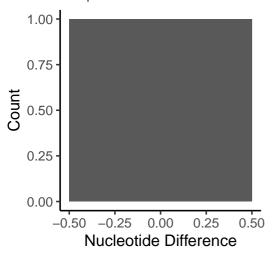






IGHV7-4-1*02

- 1 sequences assigned 1 (100%) exact matches, in which: 1 unique CDR3 1 unique J





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