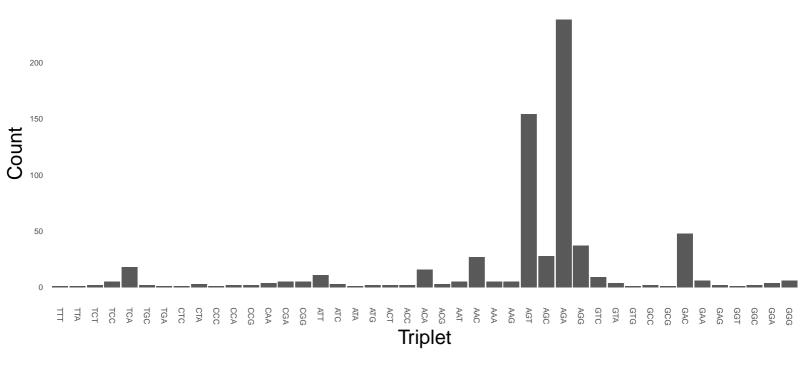
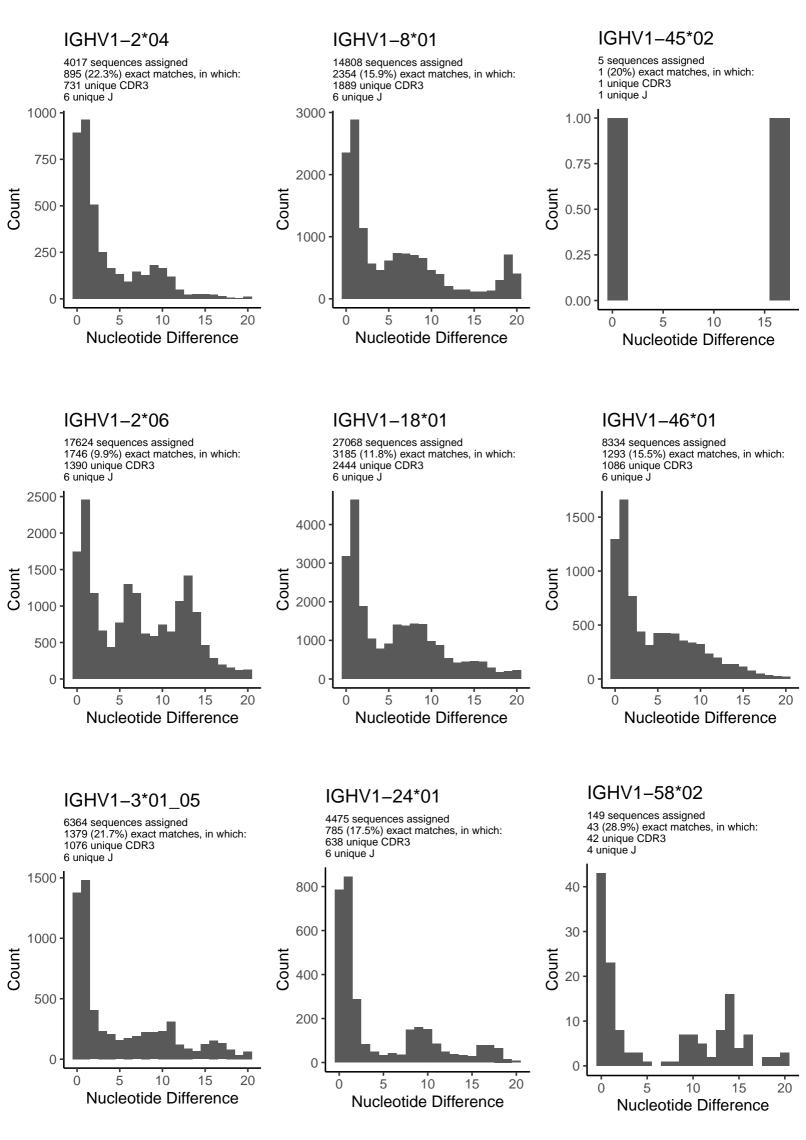
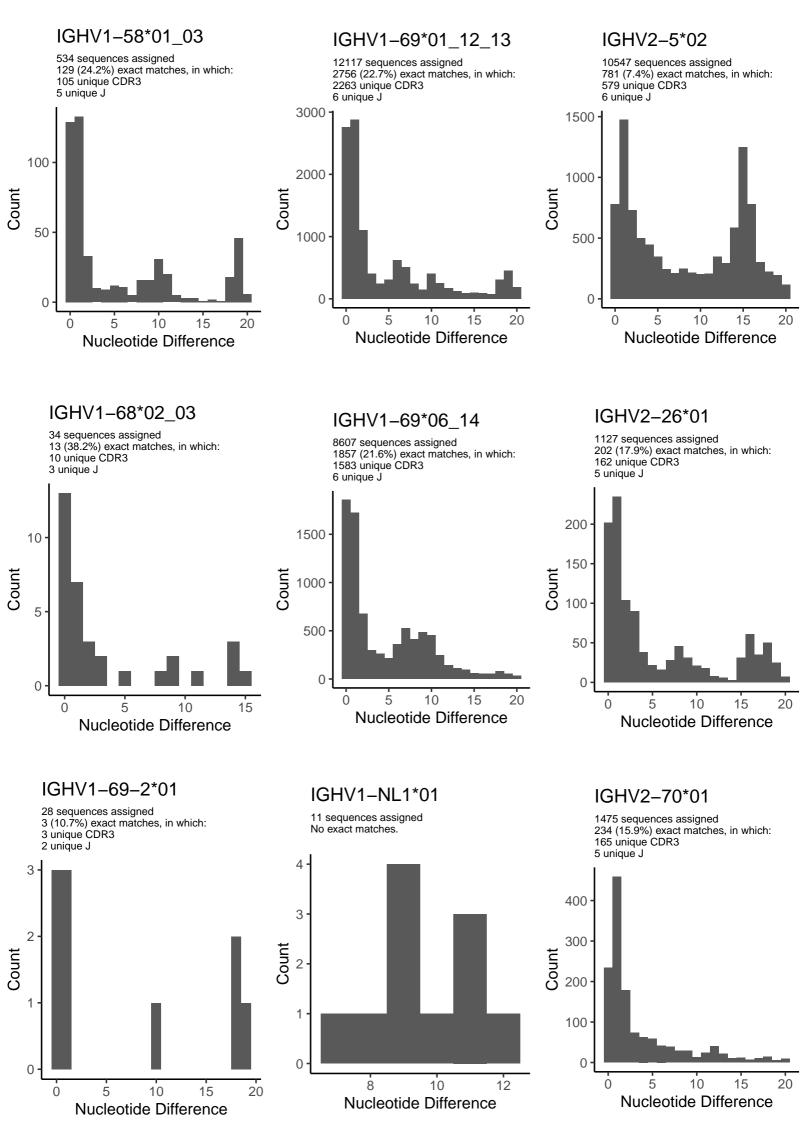




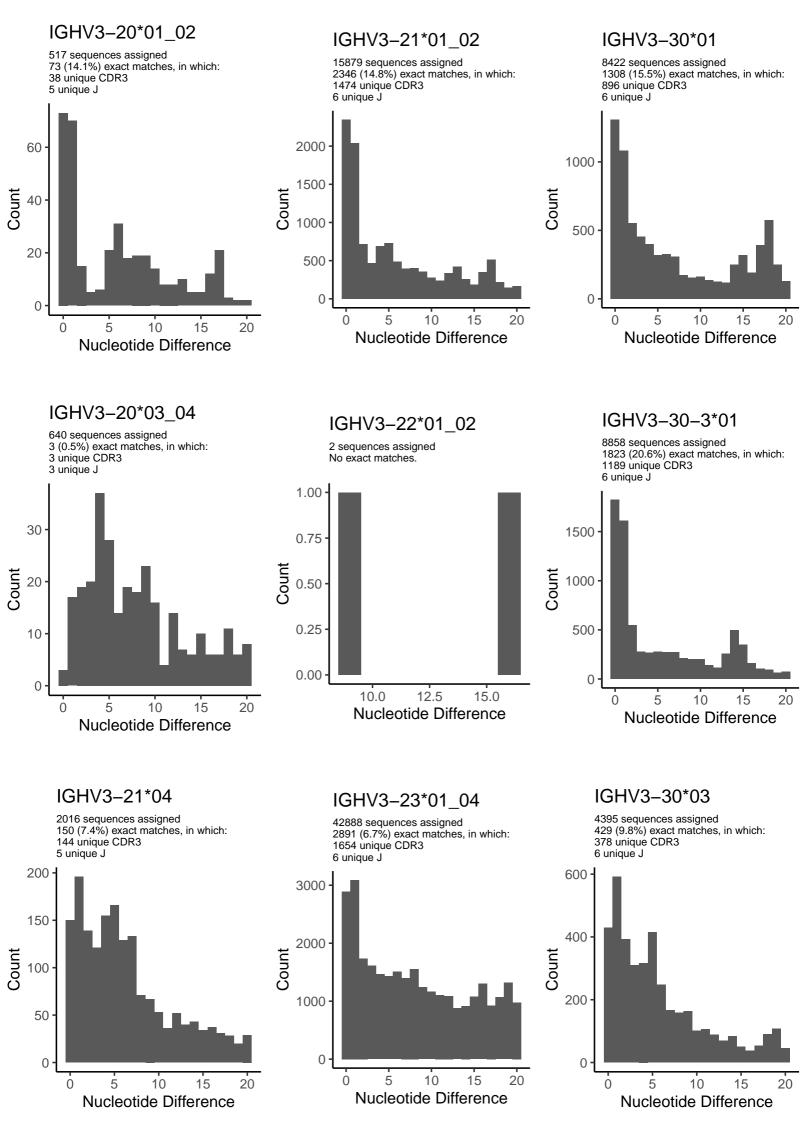
IGHV4/OR15-8*01_C193A- Final 3 nucleotides as a triplet

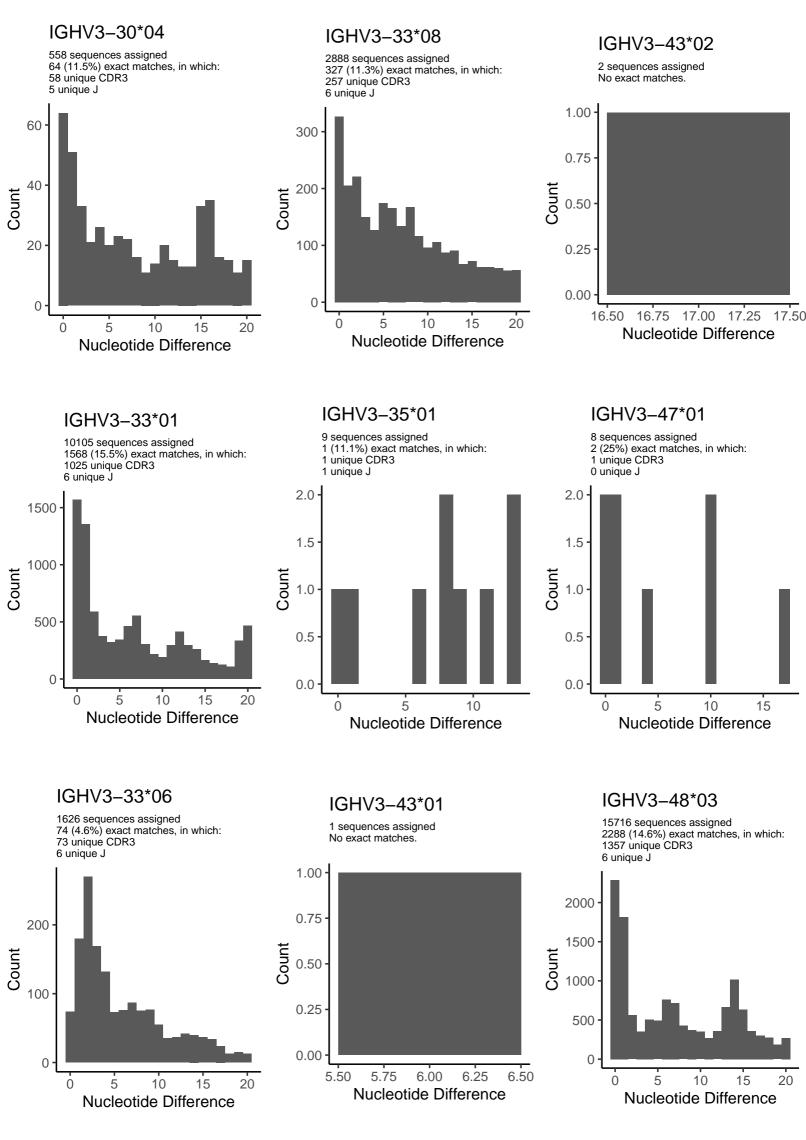


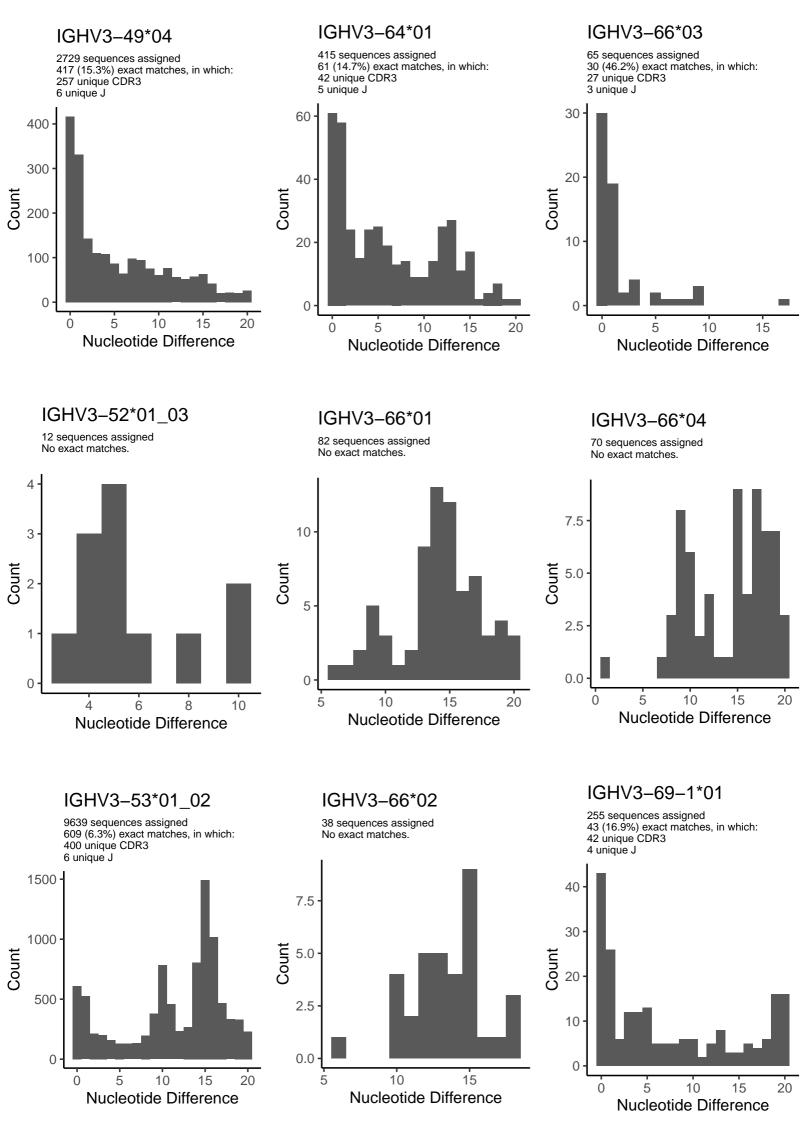


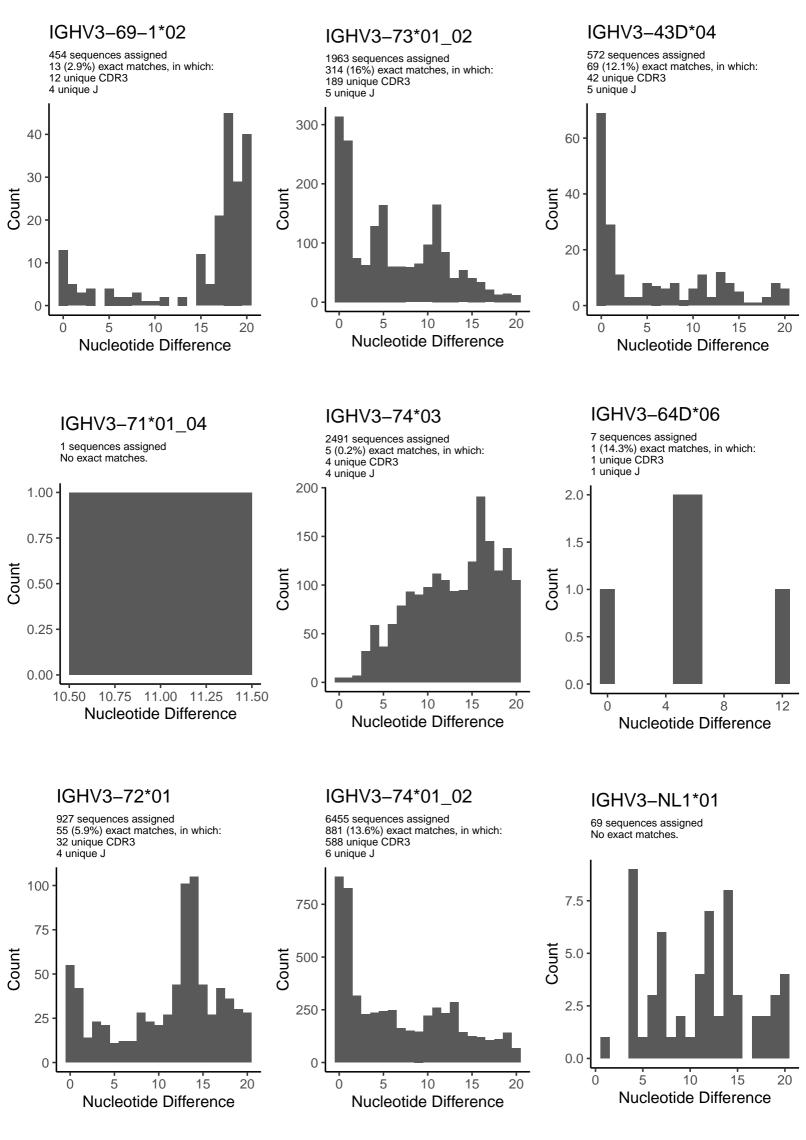


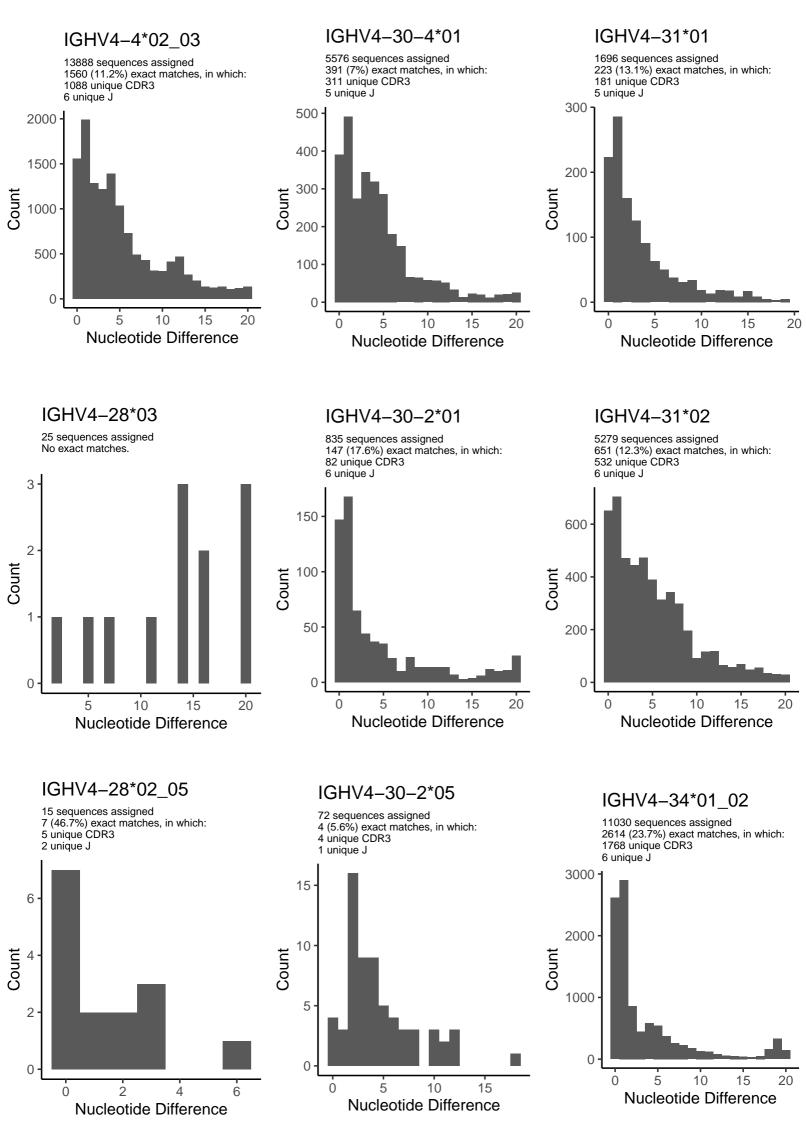
IGHV2-70*12 IGHV3-13*01 IGHV3-9*01 253 sequences assigned 1609 sequences assigned 15608 sequences assigned 5 (2%) exact matches, in which: 314 (19.5%) exact matches, in which: 2130 (13.6%) exact matches, in which: 4 unique CDR3 210 unique CDR3 1198 unique CDR3 1 unique J 6 unique J 6 unique J 2000 300 40 1500 Count Count 200 1000 20 100 500 0 0 0 0 10 15 20 5 10 15 0 0 10 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-7*01 IGHV3-11*01 IGHV3-15*01_02 8423 sequences assigned 1032 (12.3%) exact matches, in which: 21731 sequences assigned 2073 (9.5%) exact matches, in which: 8892 sequences assigned 1314 (14.8%) exact matches, in which: 1357 unique CDR3 864 unique CDR3 590 unique CDR3 6 unique J 6 unique J 6 unique J 1000 2000 1000 1500 750 Count Count 1000 500 500 500 250 0 0 0 5 10 15 20 0 10 20 0 5 10 15 20 0 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-19*01 IGHV3-7*03 IGHV3-11*04 7 sequences assigned 2667 sequences assigned 2978 sequences assigned 3 (42.9%) exact matches, in which: 2 unique CDR3 114 (4.3%) exact matches, in which: 247 (8.3%) exact matches, in which: 226 unique CDR3 107 unique CDR3 1 unique J 5 unique J 6 unique J 200 400 150 2 300 Count Count 100 200 50 100 0 0 0 5 10 15 20 5 10 15 20 3 0 6 12 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

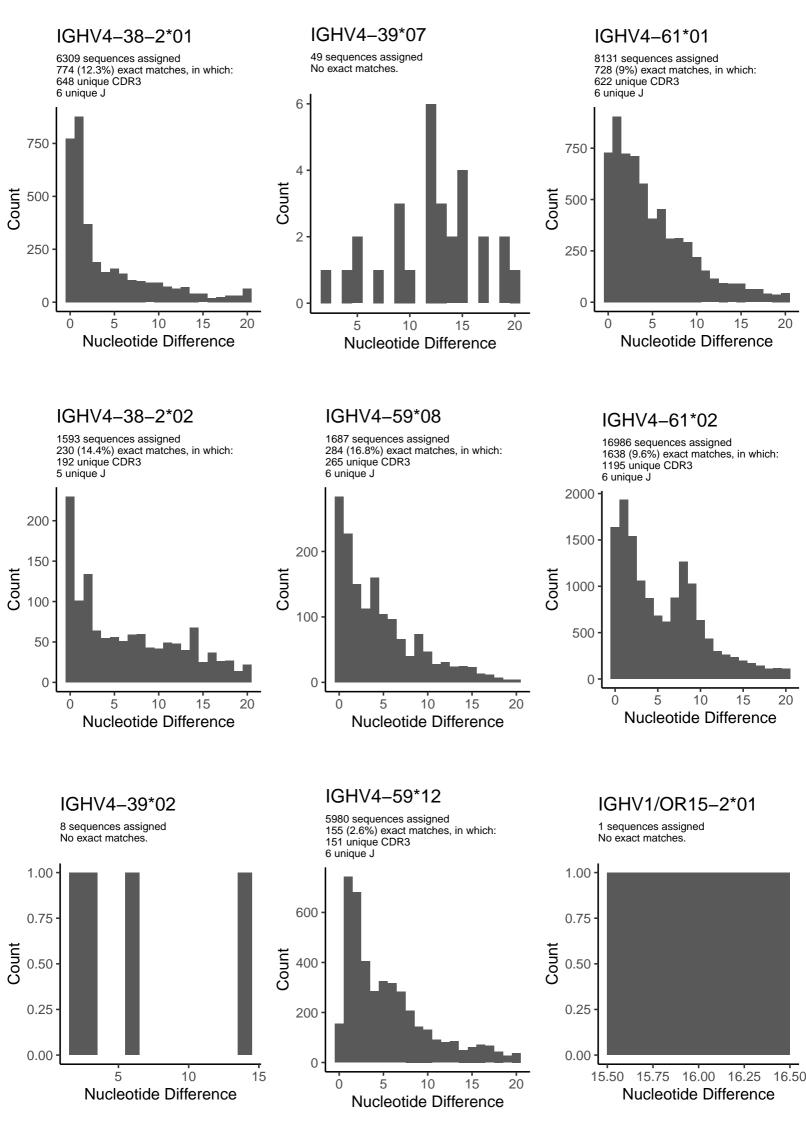


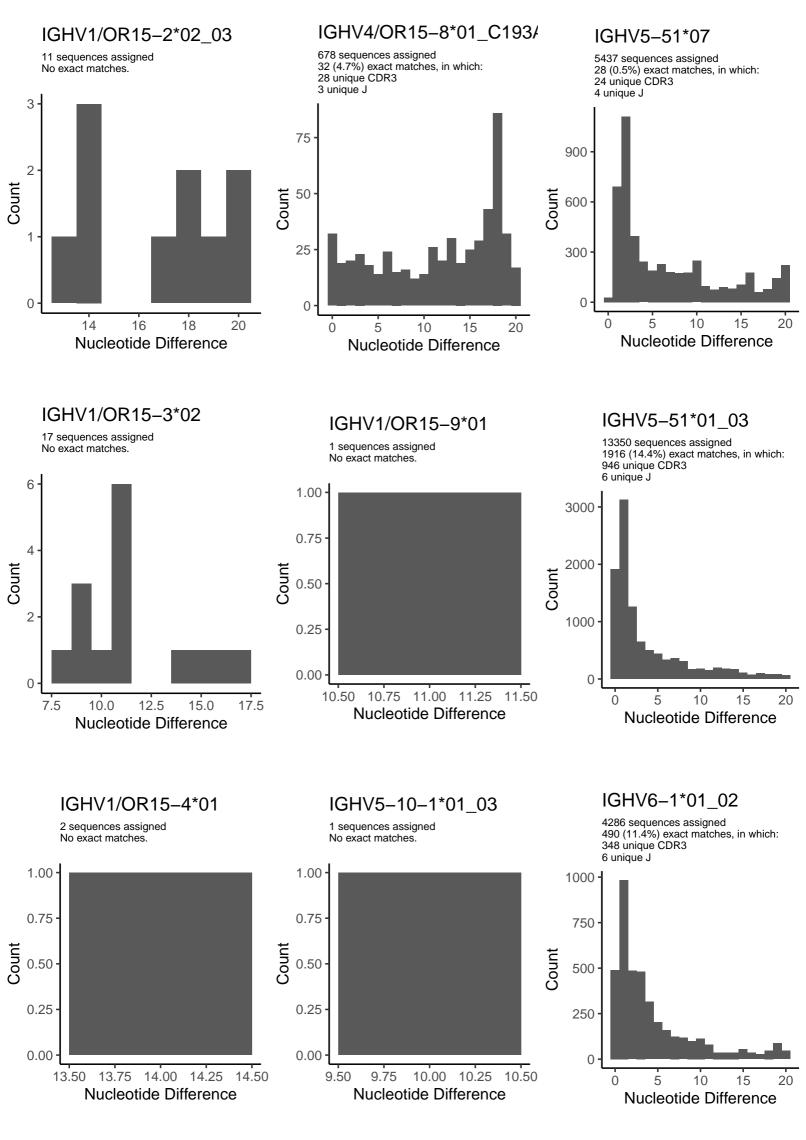






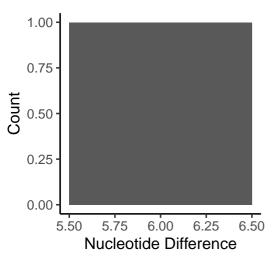






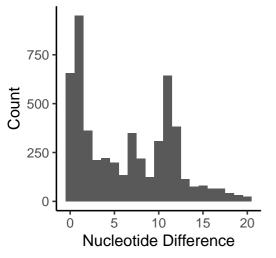
IGHV3/OR16-13*01

1 sequences assigned No exact matches.

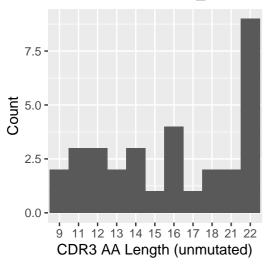


IGHV7-4-1*02

5311 sequences assigned 655 (12.3%) exact matches, in which: 491 unique CDR3 6 unique J



IGHV4/OR15-8*01_C193A





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