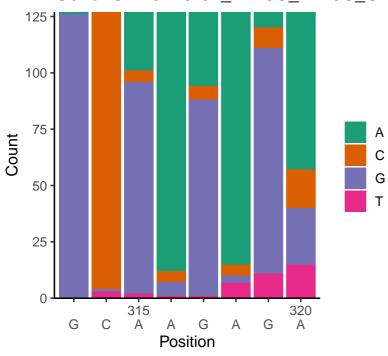
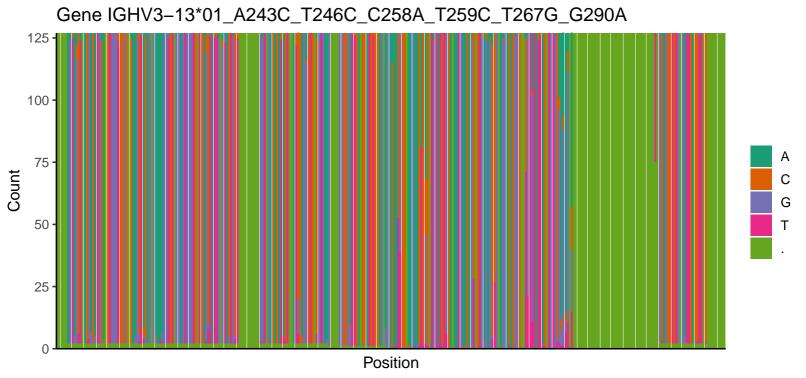
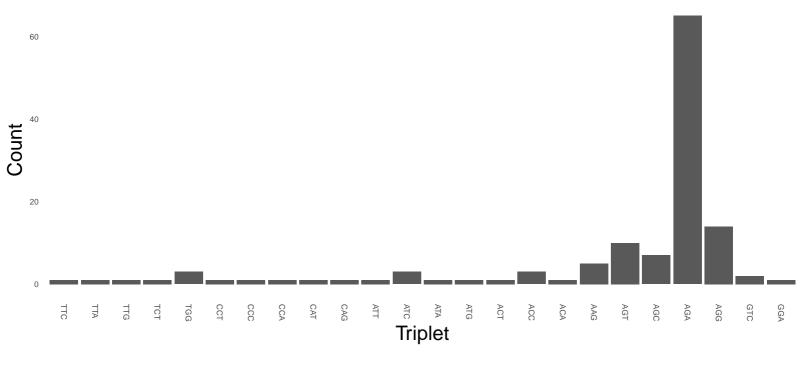
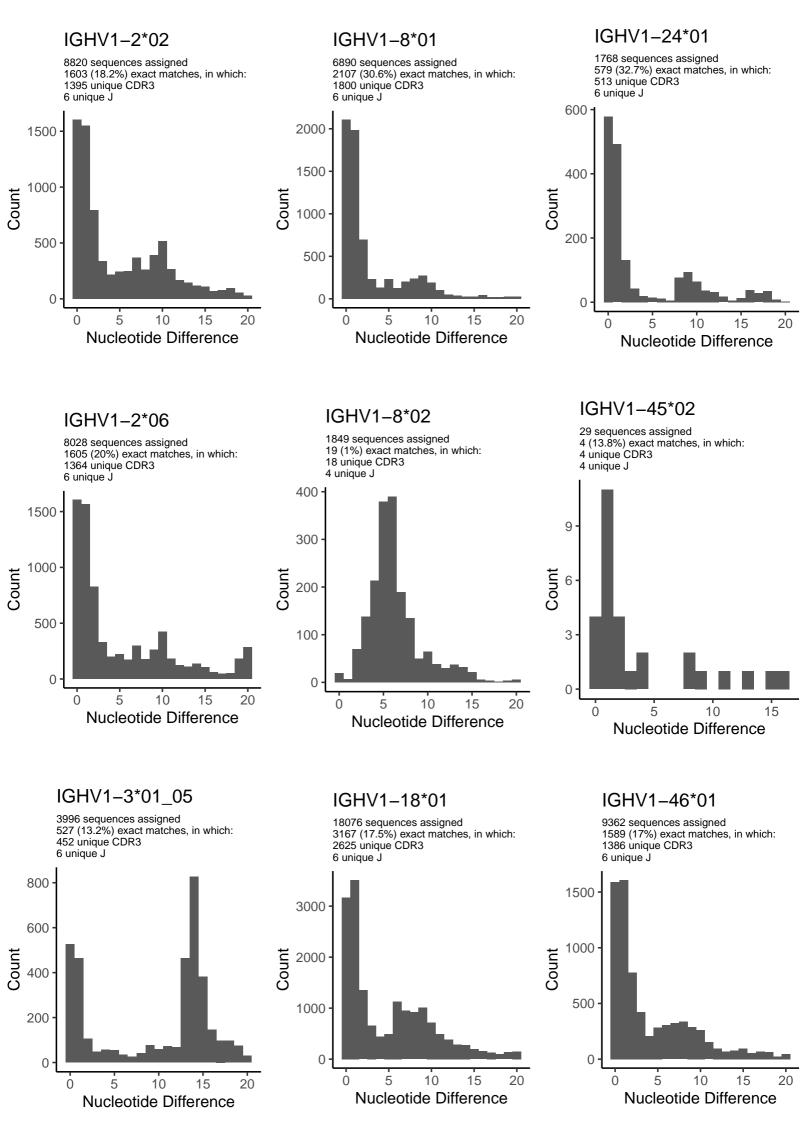
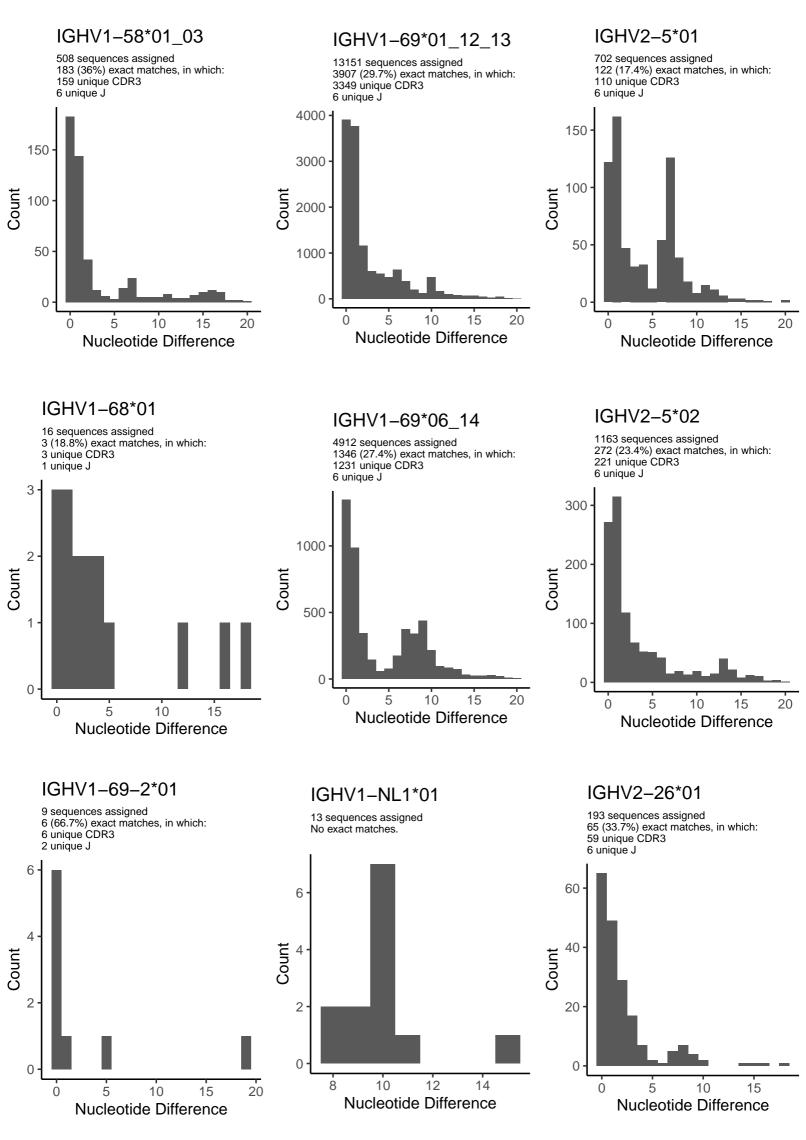
Gene IGHV3-13*01_A243C_T246C_C258A_T259C_T267G_G290A

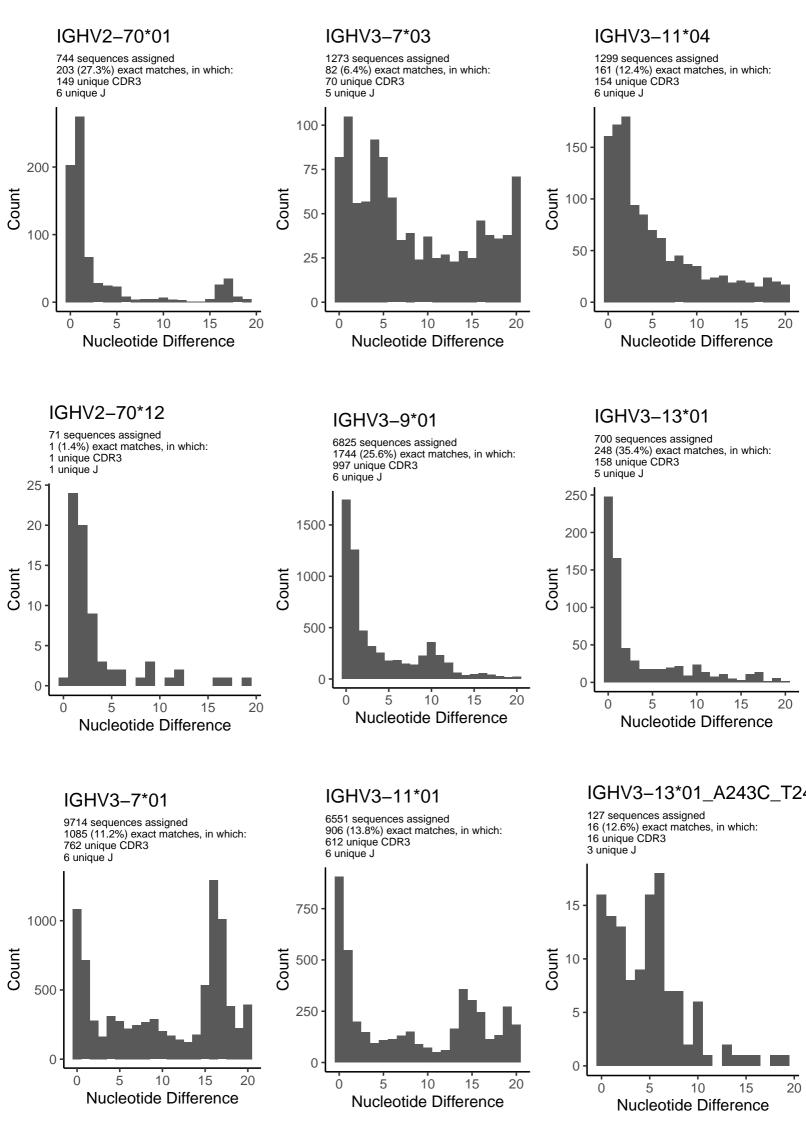


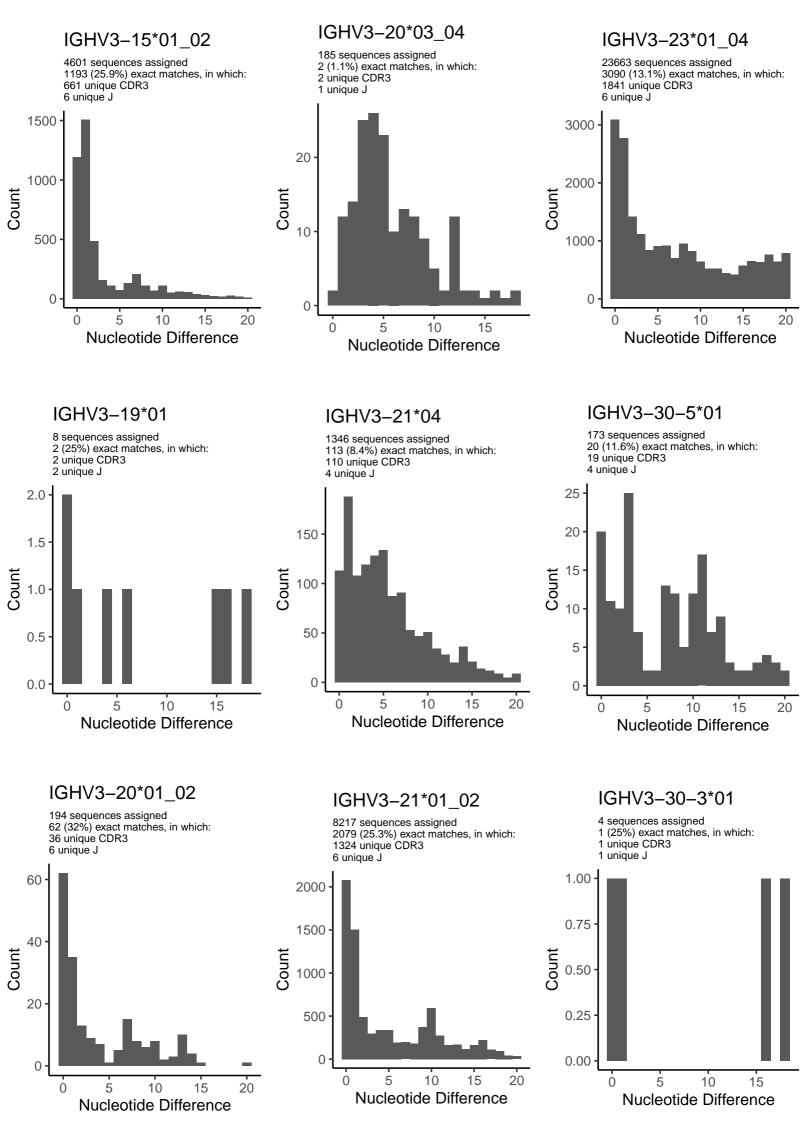


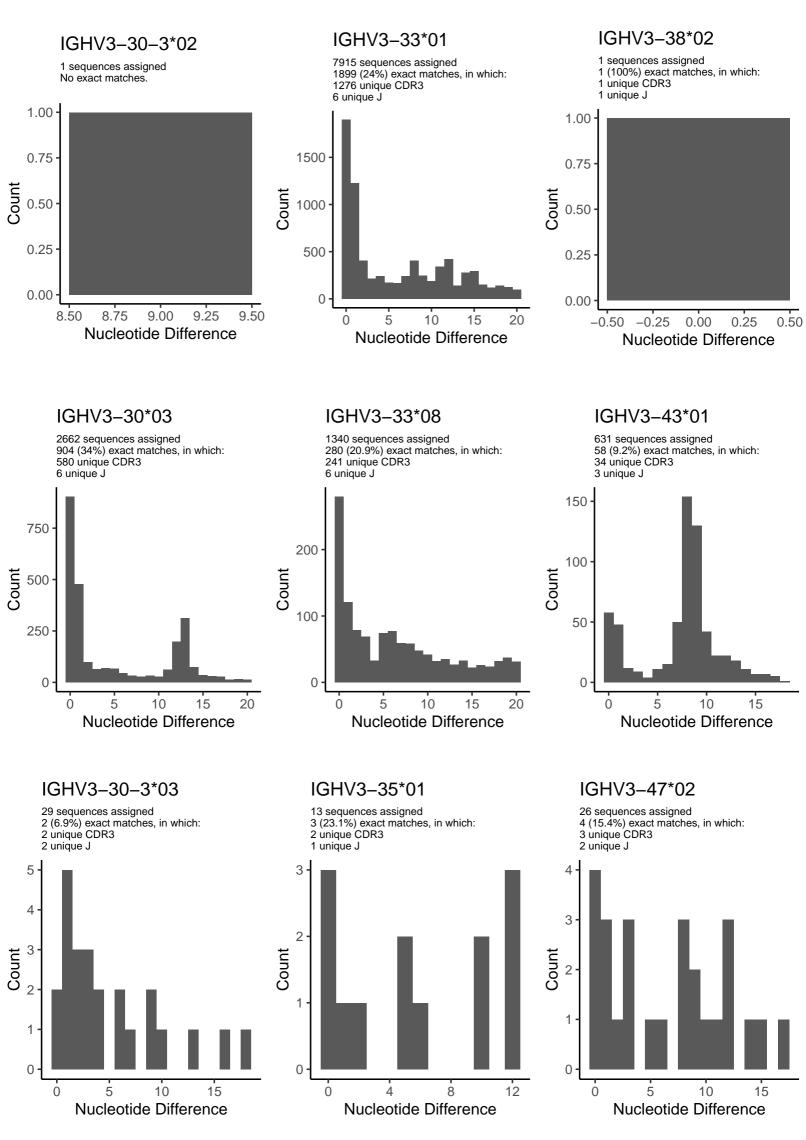




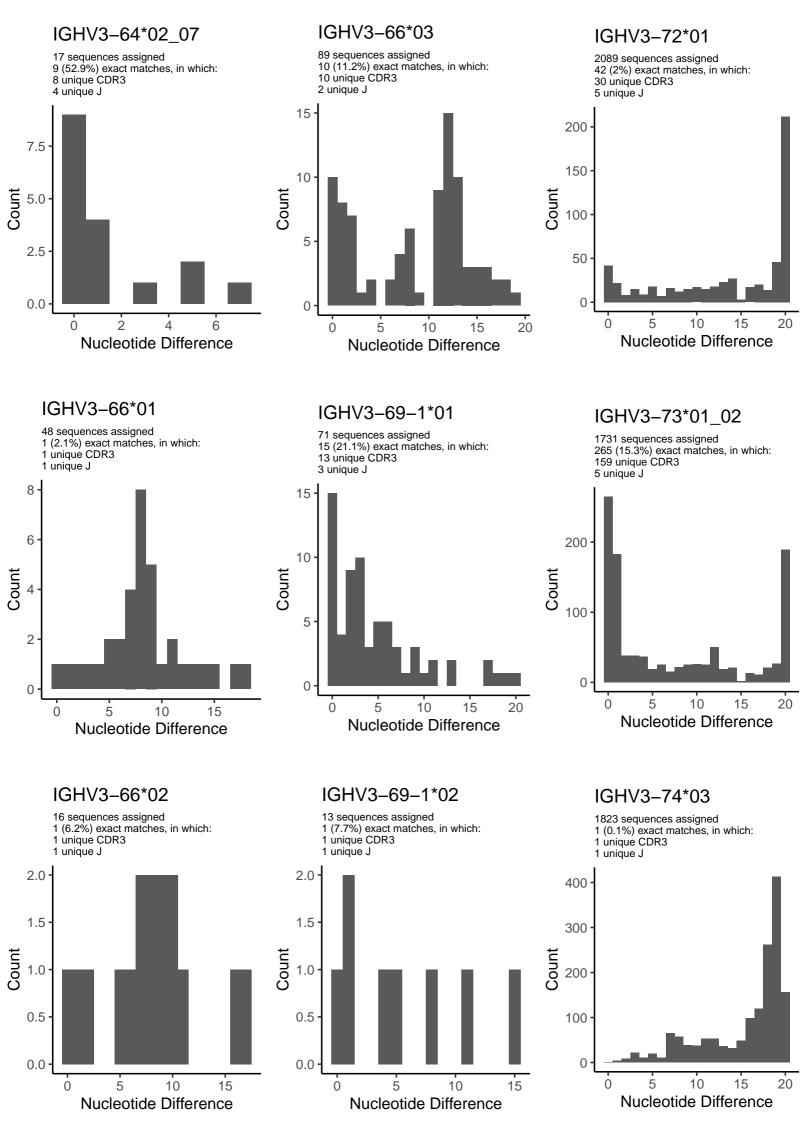


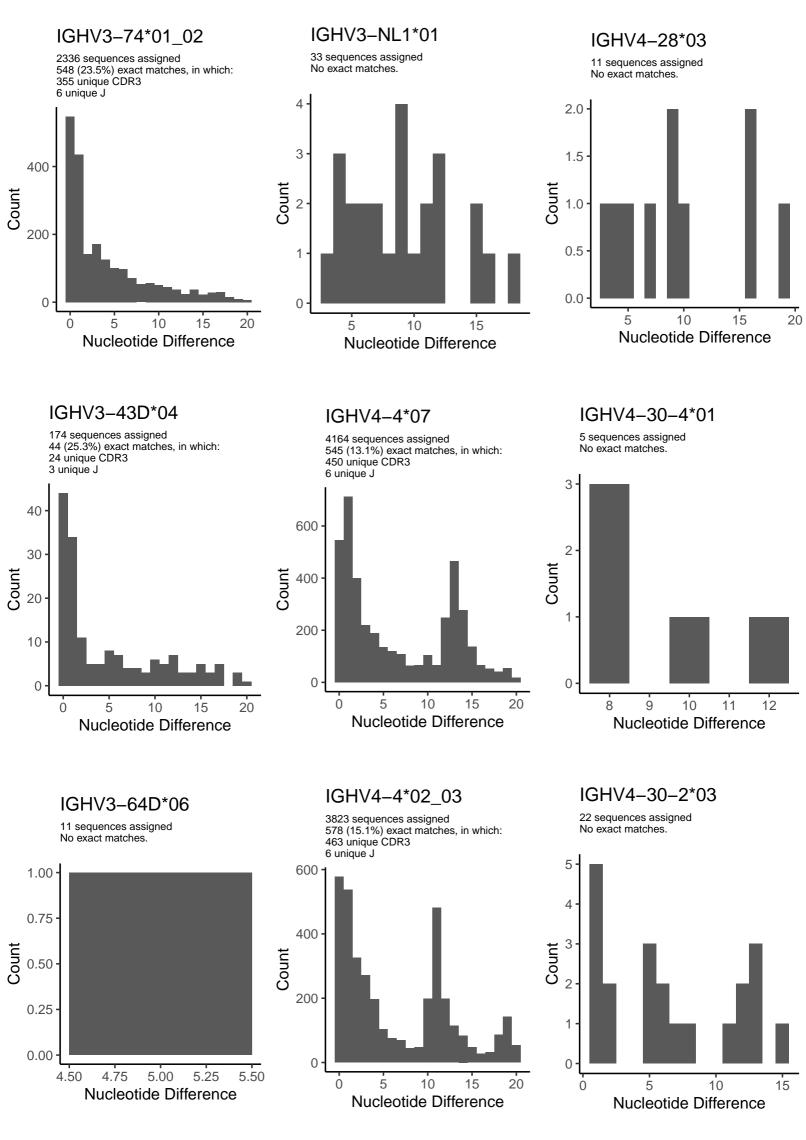


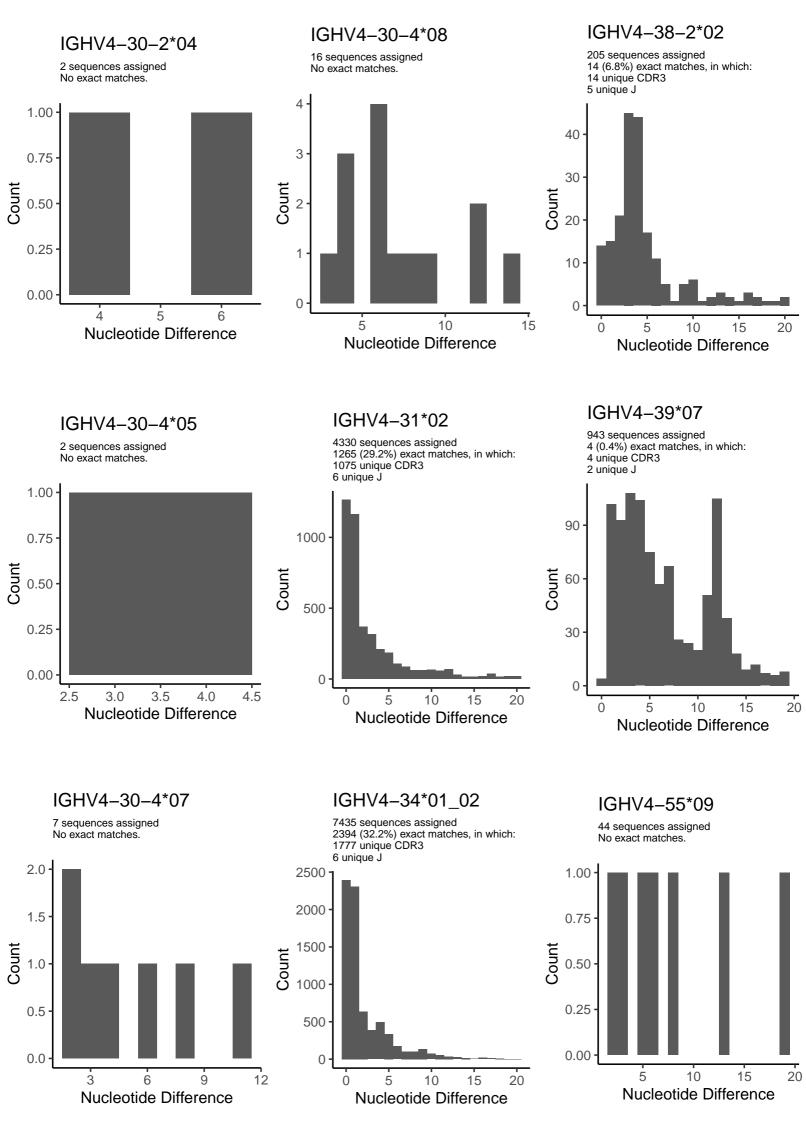


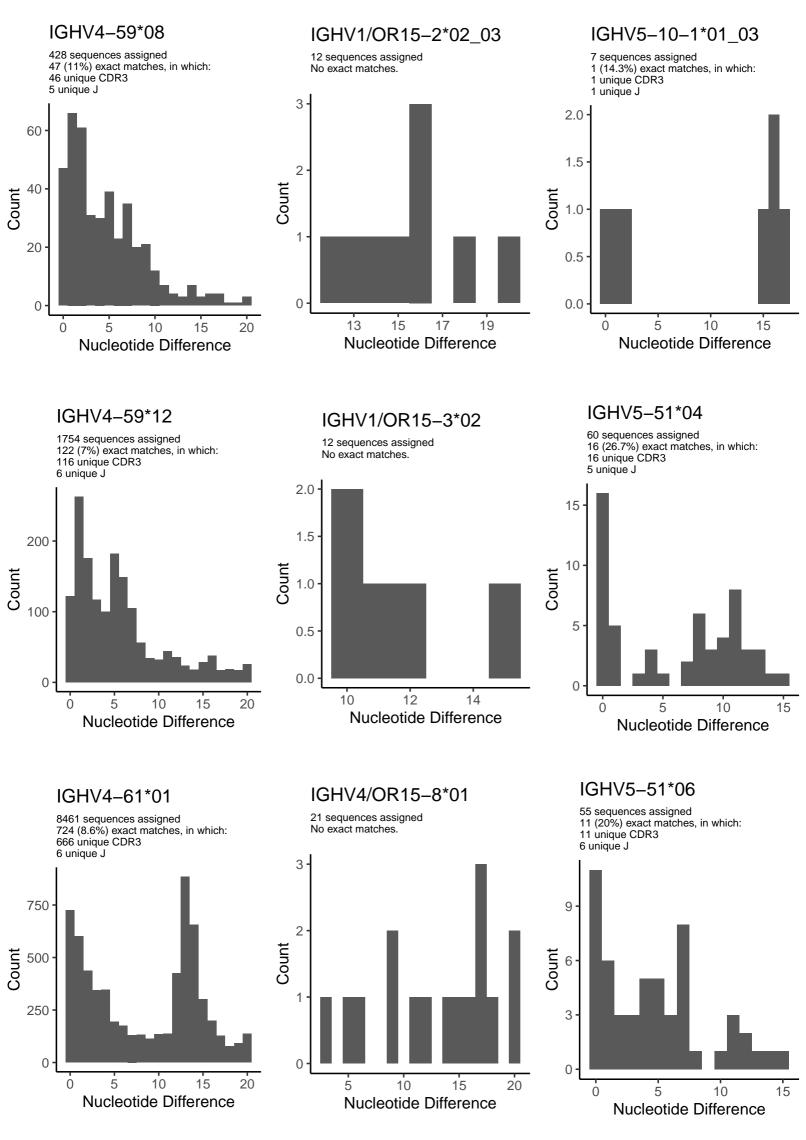


IGHV3-48*01 IGHV3-48*04 IGHV3-52*01_03 646 sequences assigned 796 sequences assigned 7 sequences assigned 73 (11.3%) exact matches, in which: 38 (4.8%) exact matches, in which: 1 (14.3%) exact matches, in which: 69 unique CDR3 37 unique CDR3 unique CDR3 4 unique J 4 unique J 1 unique J 125 -1.00 60 100 0.75 75 Count 0.50 50 20 0.25 25 0.00 0 0 10 15 5 5 10 15 20 0 0 10 20 0 5 15 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV3-48*02 IGHV3-49*04 IGHV3-53*01_02 2339 sequences assigned 628 (26.8%) exact matches, in which: 1973 sequences assigned 589 (29.9%) exact matches, in which: 578 sequences assigned 216 (37.4%) exact matches, in which: 373 unique CDR3 140 unique CDR3 411 unique CDR3 6 unique J 6 unique J 6 unique J 600 600 200 150 400 400 Count Count 100 200 200 50 0 0 0 20 10 15 20 5 10 15 10 15 20 0 5 0 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV3-48*03 IGHV3-49*03_05 IGHV3-64*04 7624 sequences assigned 330 sequences assigned 9 sequences assigned 781 (10.2%) exact matches, in which: 145 (43.9%) exact matches, in which: No exact matches. 492 unique CDR3 84 unique CDR3 6 unique J 5 unique J 2.0 150 800 1.5 600 100 Count 009 1.0 50 0.5 200 0.0 0 0 20 10 15 20 10 15 10 15 20 Nucleotide Difference **Nucleotide Difference Nucleotide Difference**



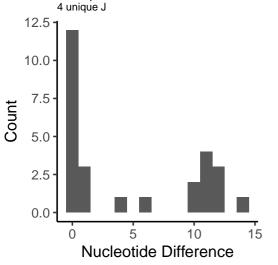






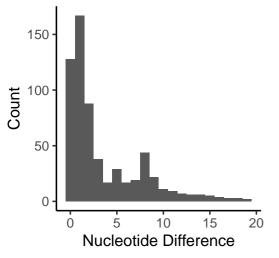
IGHV5-51*07

30 sequences assigned 12 (40%) exact matches, in which: 12 unique CDR3



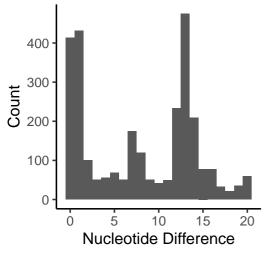
IGHV6-1*01_02

626 sequences assigned 128 (20.4%) exact matches, in which: 112 unique CDR3 5 unique J

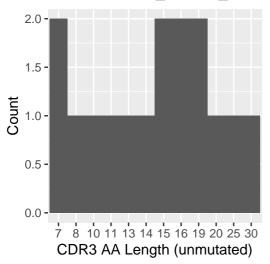


IGHV7-4-1*02

2869 sequences assigned 413 (14.4%) exact matches, in which: 335 unique CDR3 6 unique J



IGHV3-13*01_A243C_T246C_C258A_T259C_T267G_G290A





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