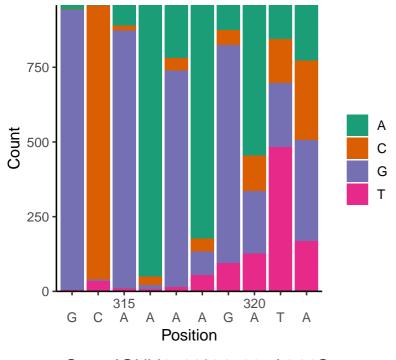
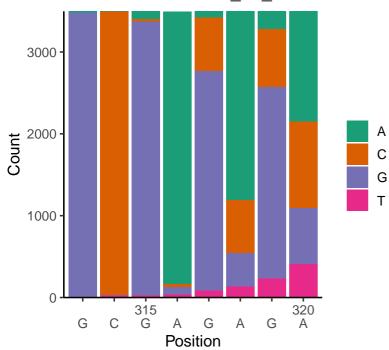
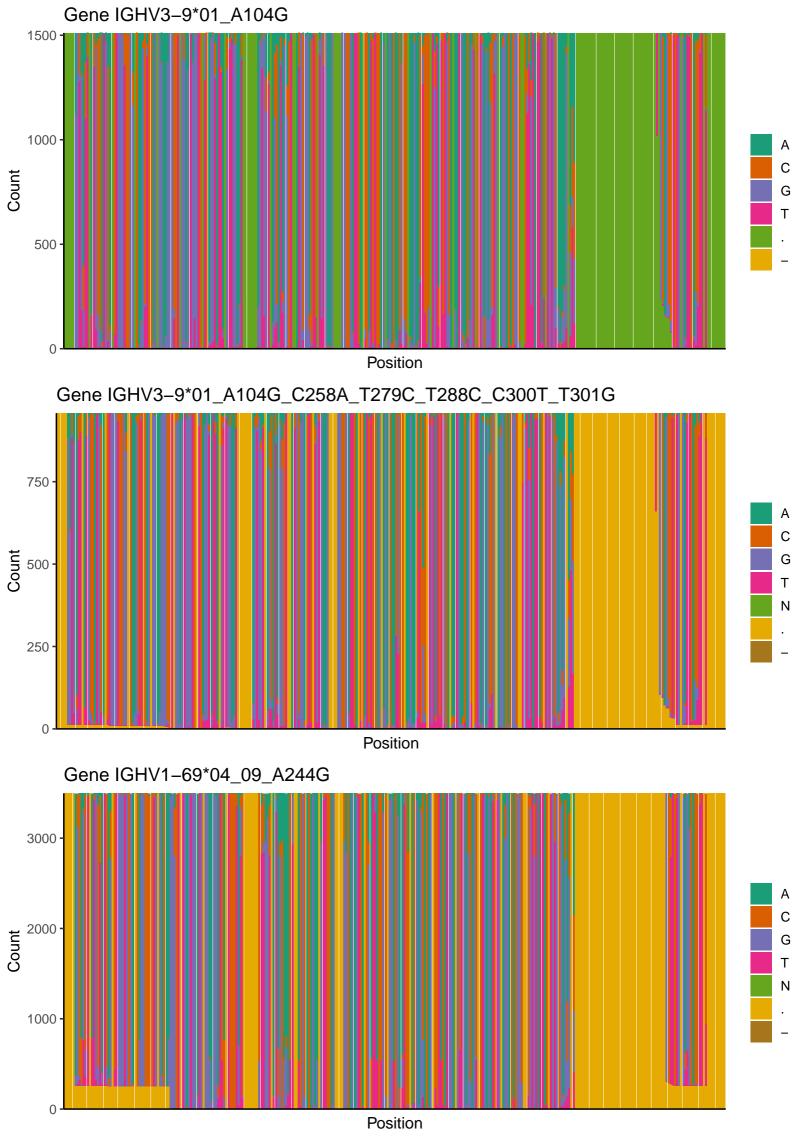


Gene IGHV3-9*01_A104G_C258A_T279C_T288C_C300T_T301G

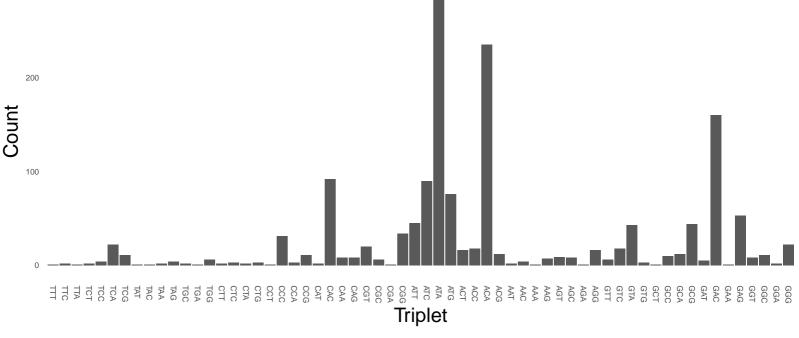


Gene IGHV1-69*04_09_A244G

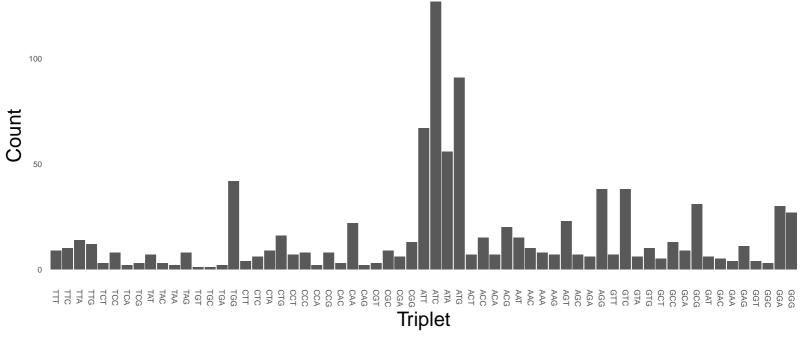




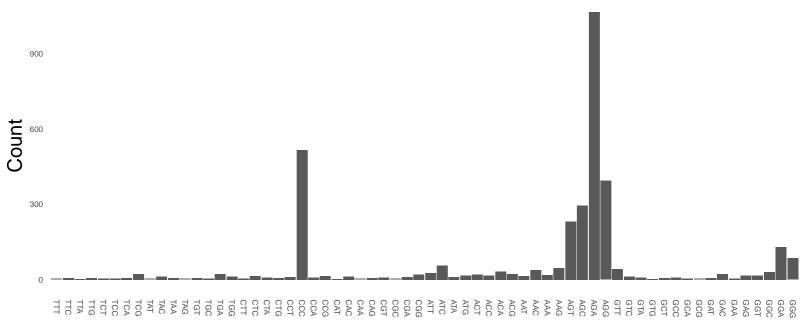
IGHV3-9*01_A104G- Final 3 nucleotides as a triplet

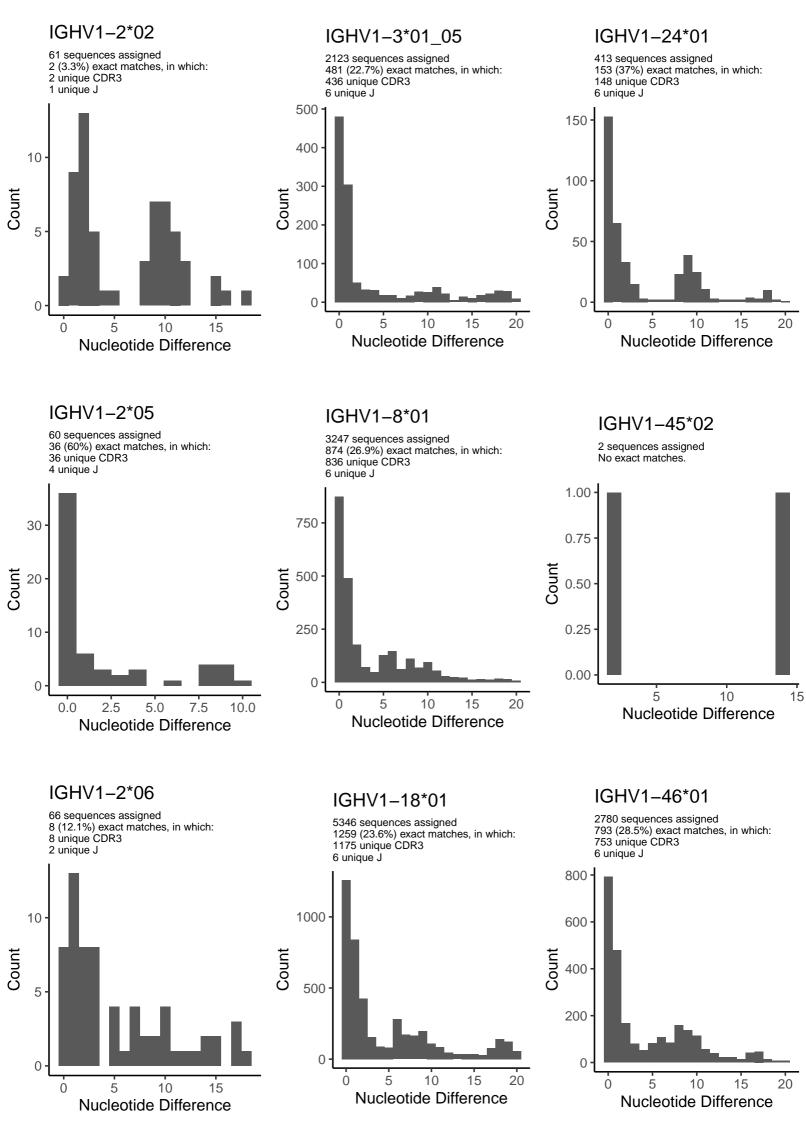


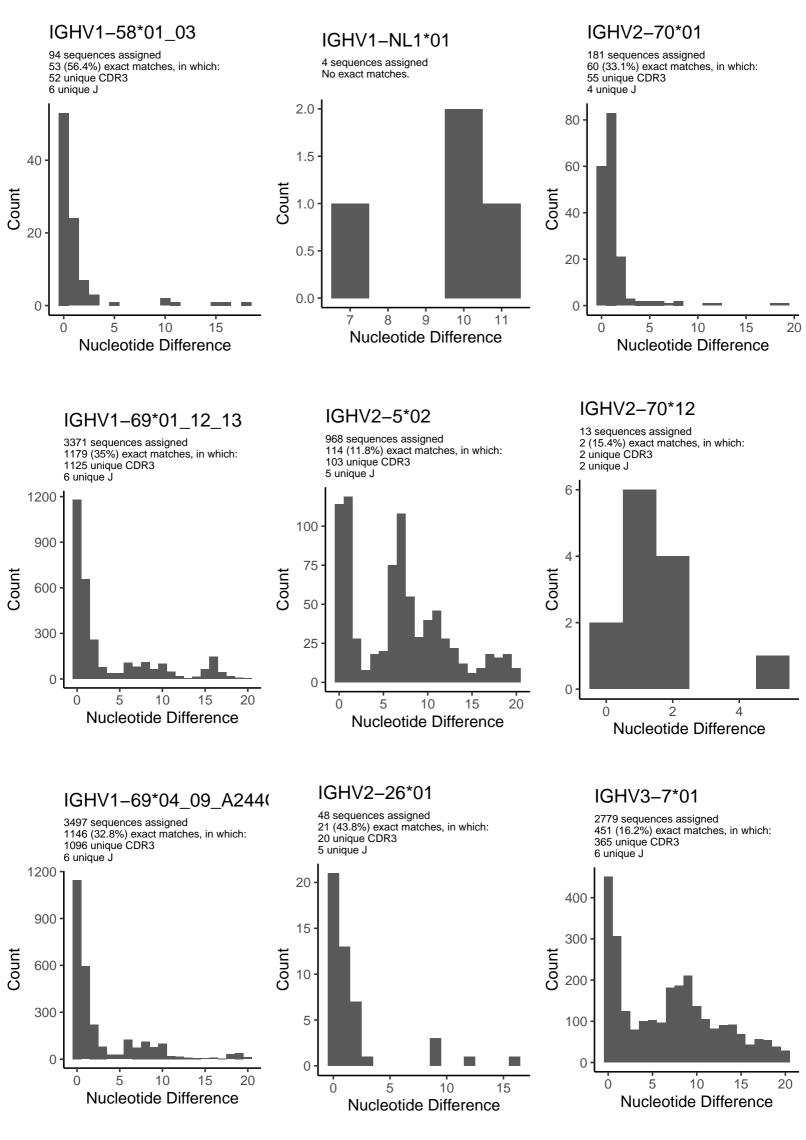
IGHV3-9*01_A104G_C258A_T279C_T288C_C300T_T301G- Final 3 nucleotides as a triplet

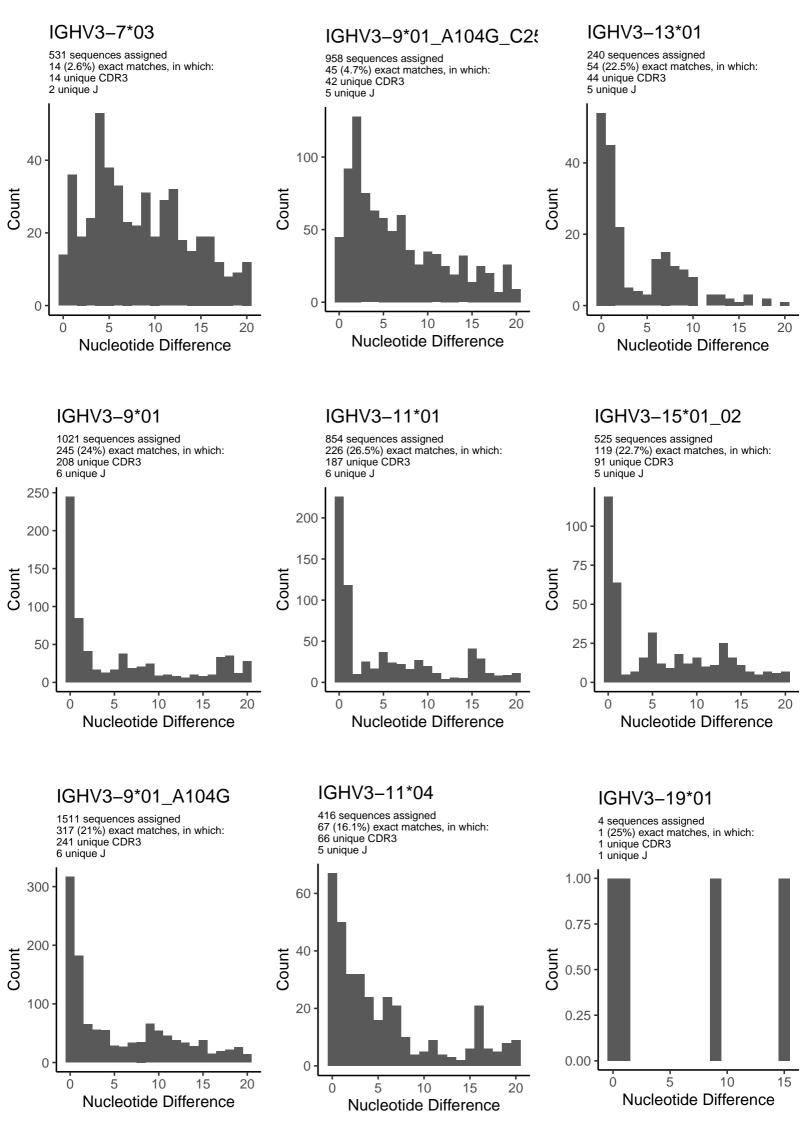


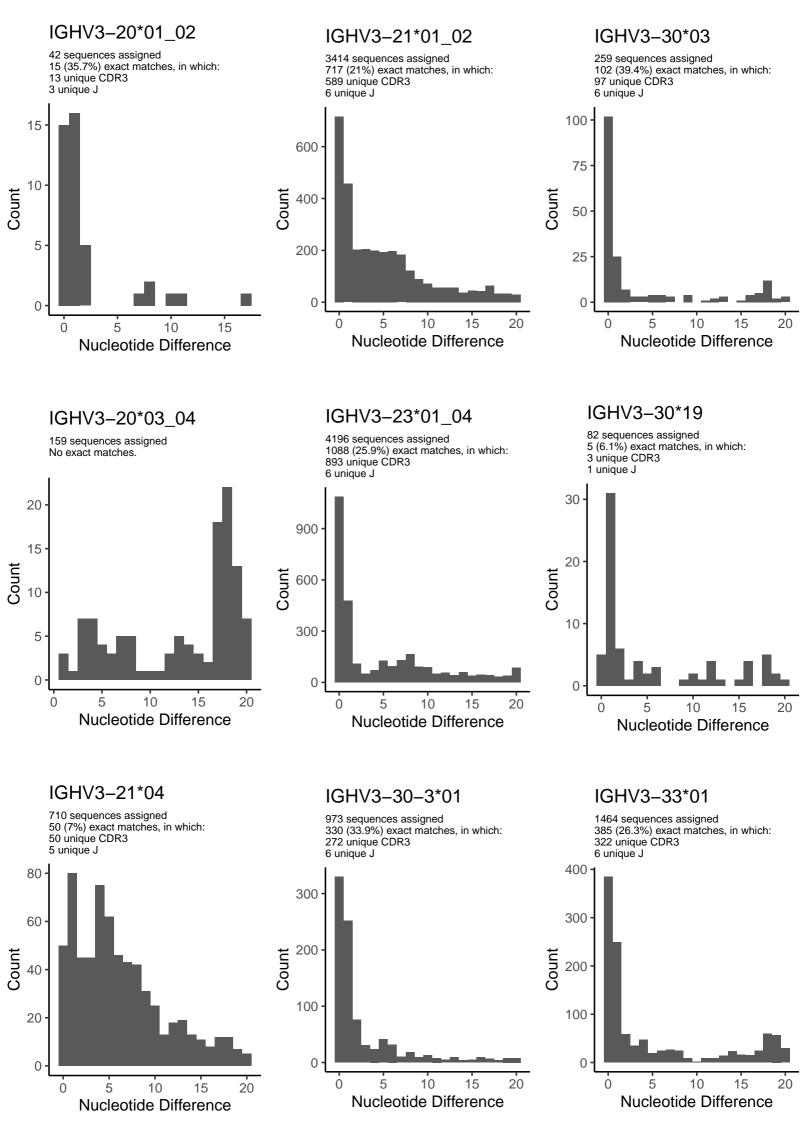
IGHV1-69*04_09_A244G- Final 3 nucleotides as a triplet

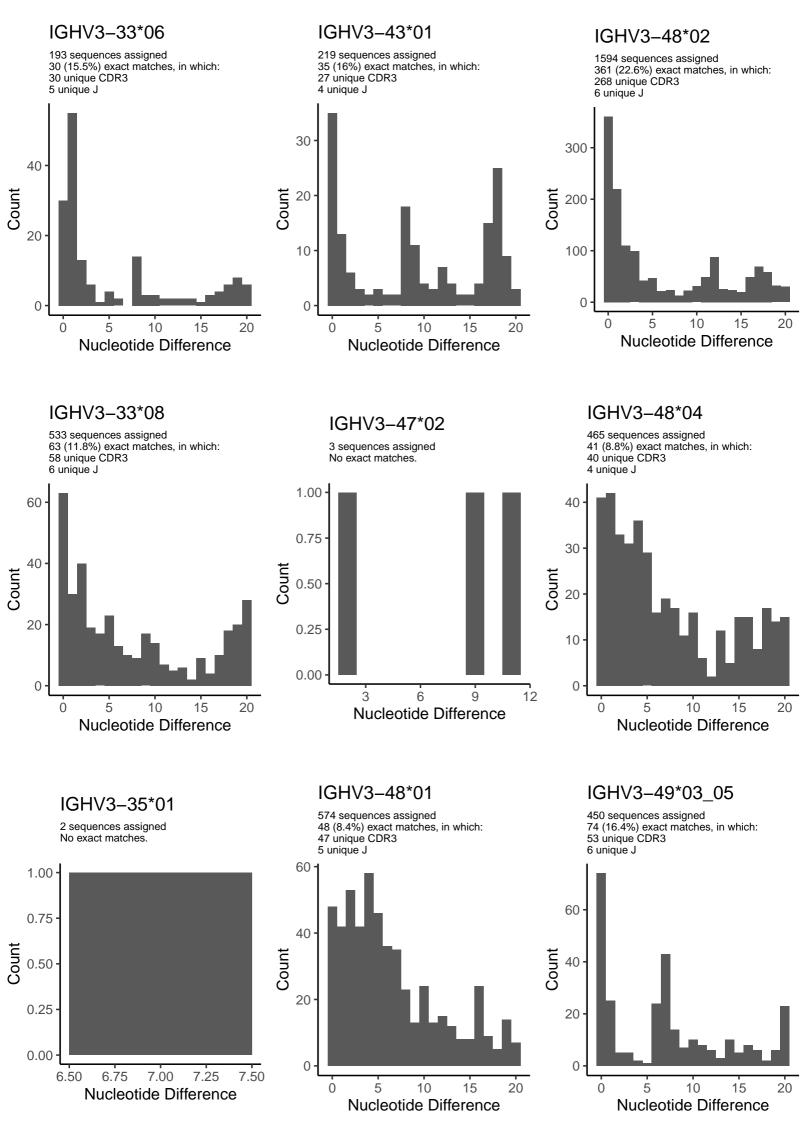


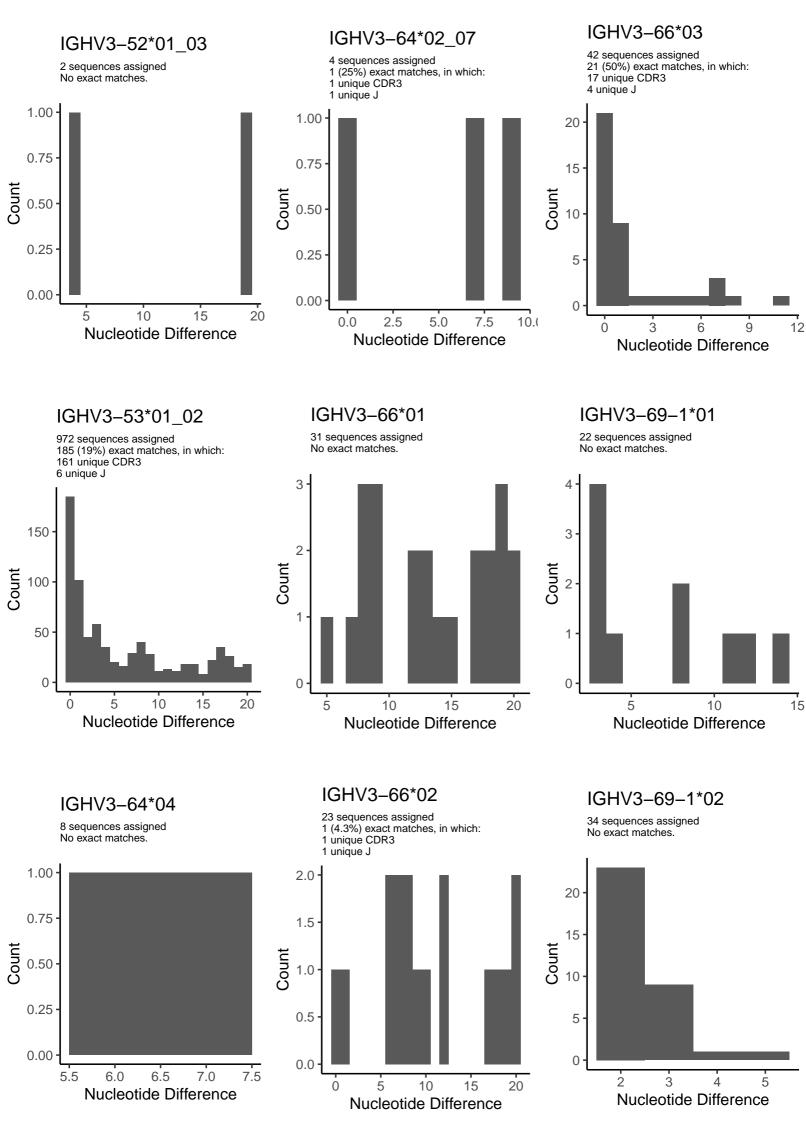


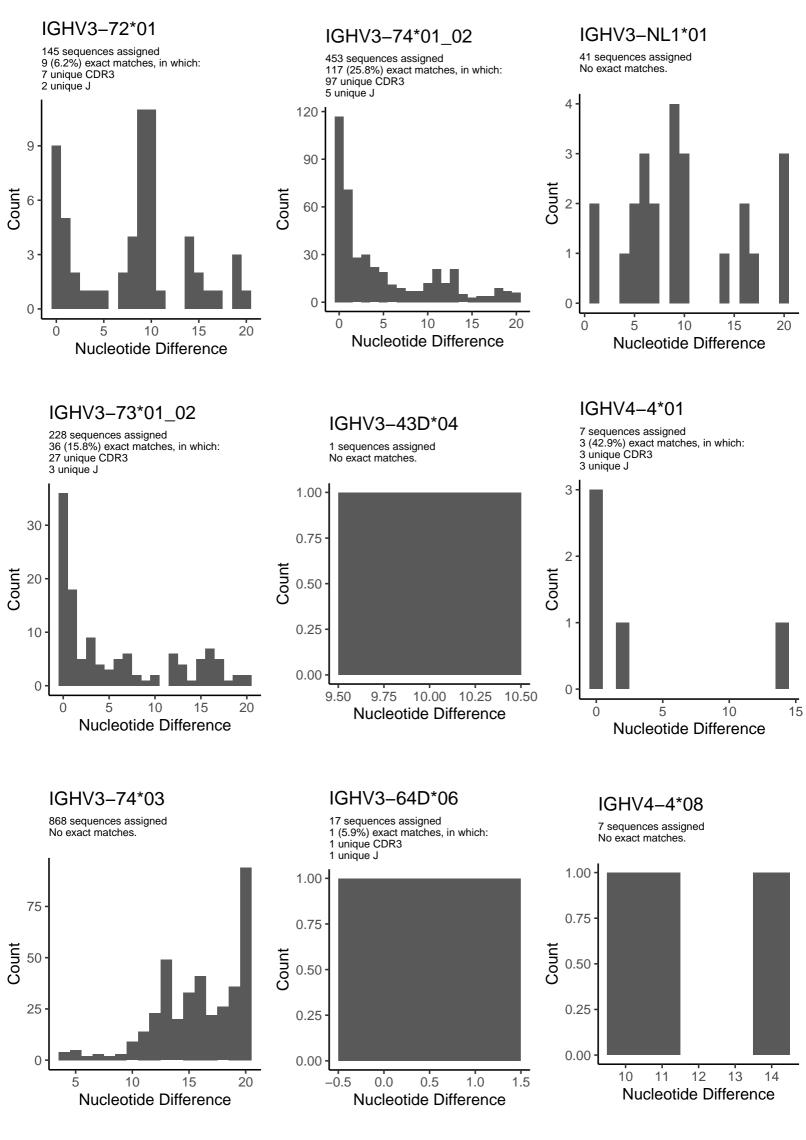


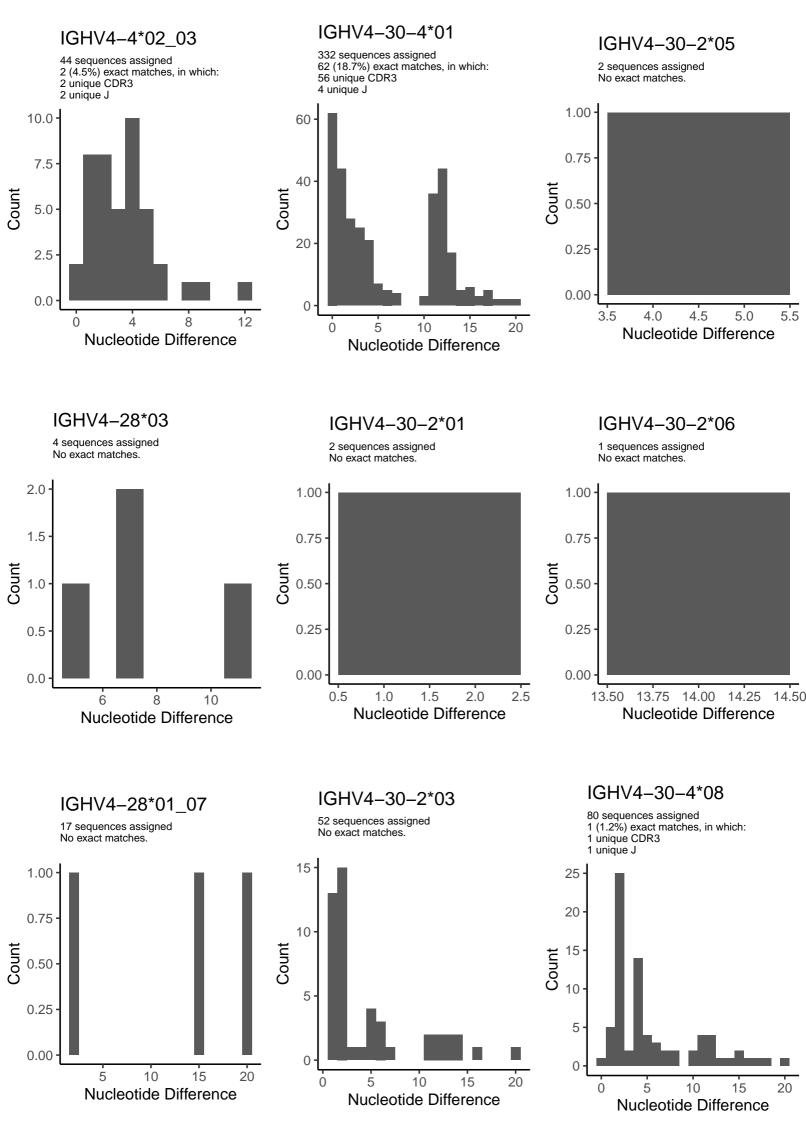


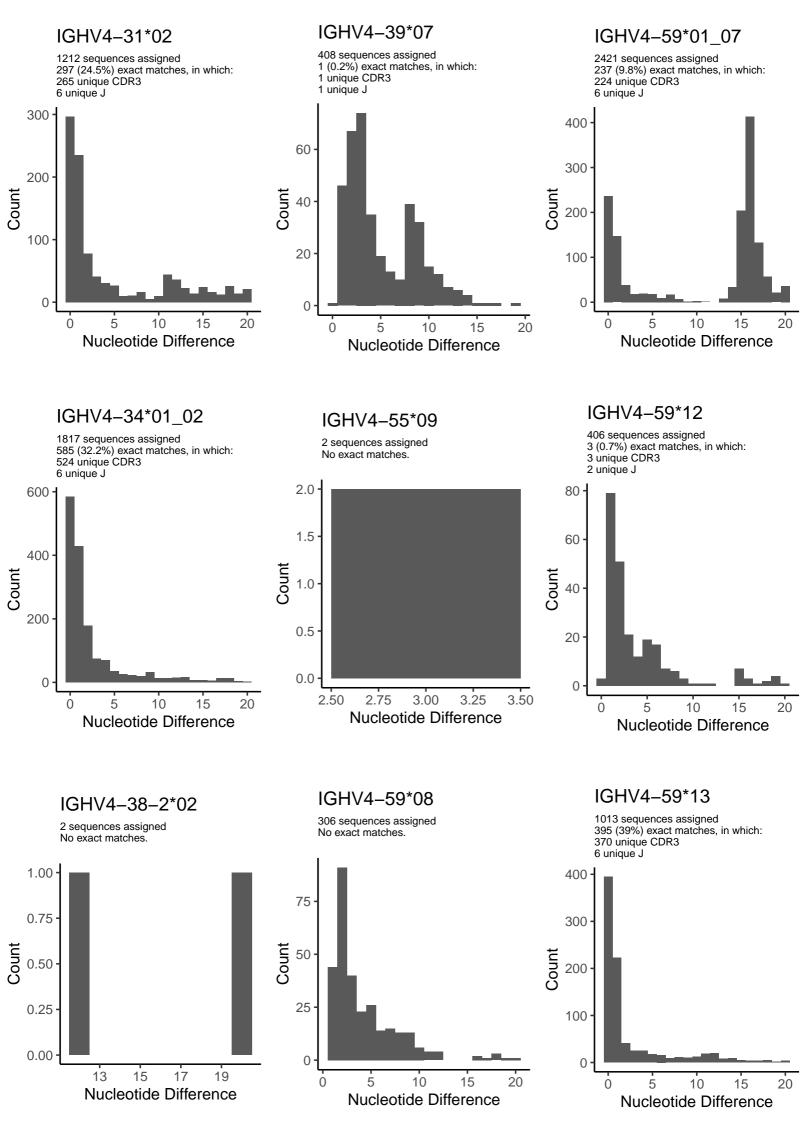


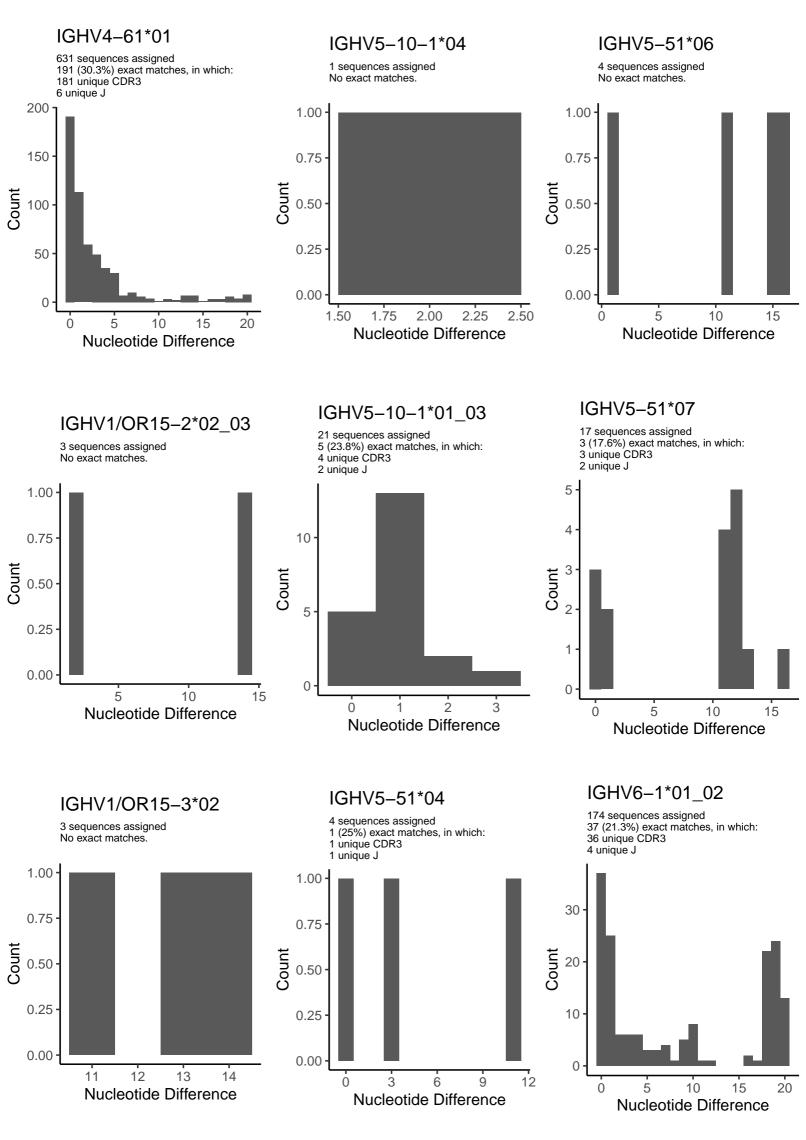






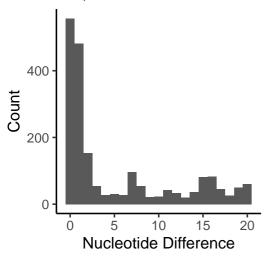






IGHV7-4-1*02

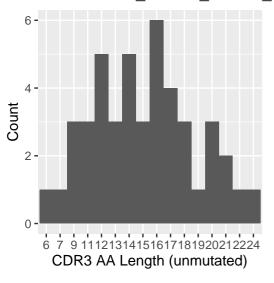
2725 sequences assigned 557 (20.4%) exact matches, in which: 523 unique CDR3 6 unique J

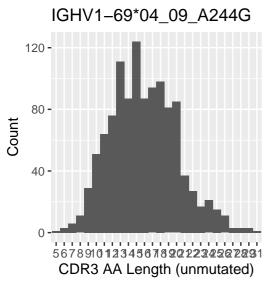


IGHV3-9*01_A104G 50 40 10 7 8 910111213141516171819202122232427

CDR3 AA Length (unmutated)

IGHV3-9*01_A104G_C258A_T279C_T288C_C300T_T301G







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