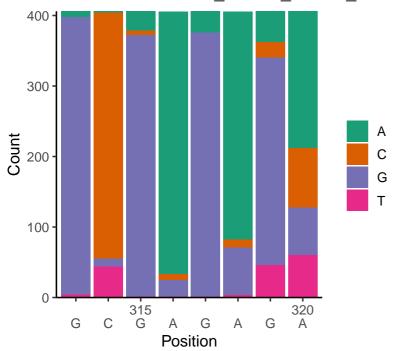
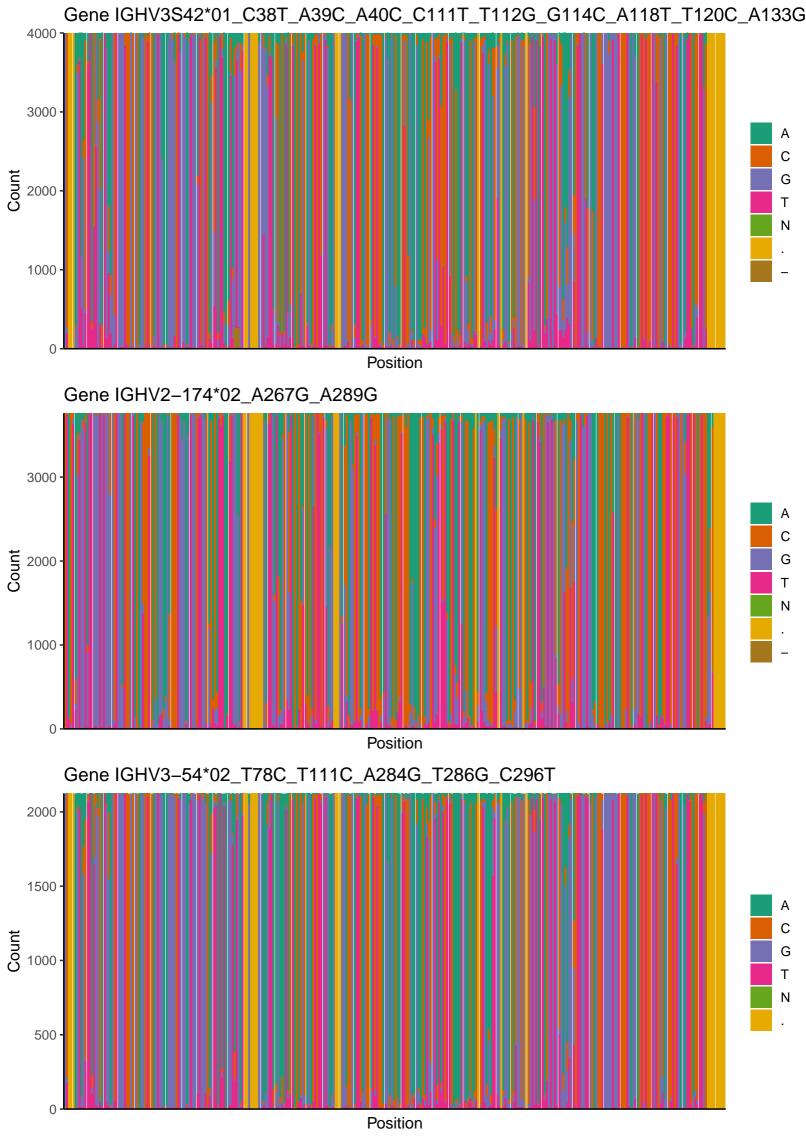
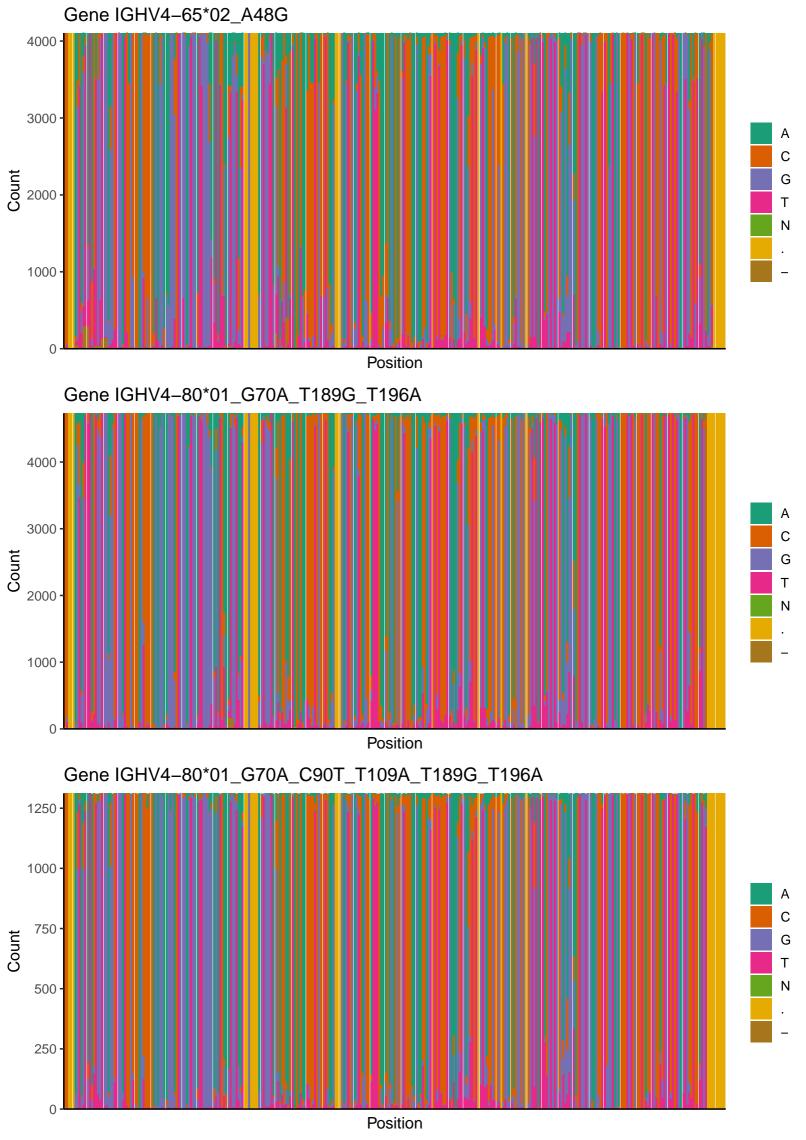
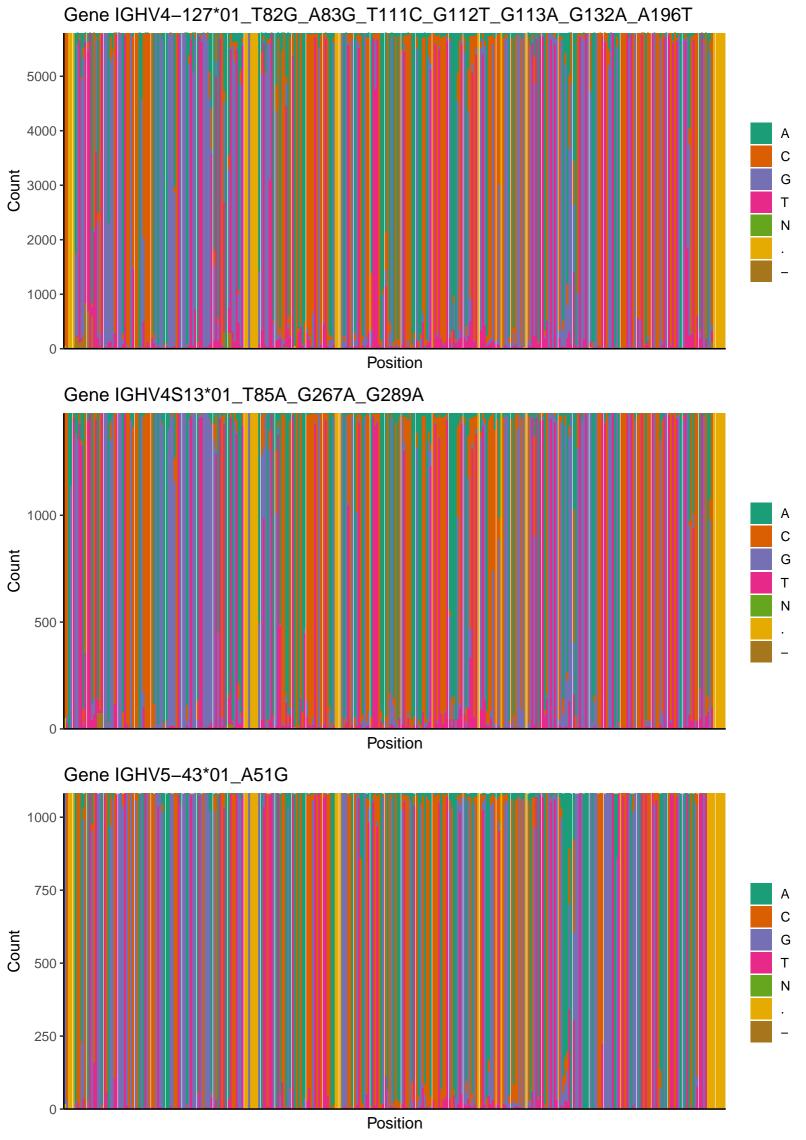


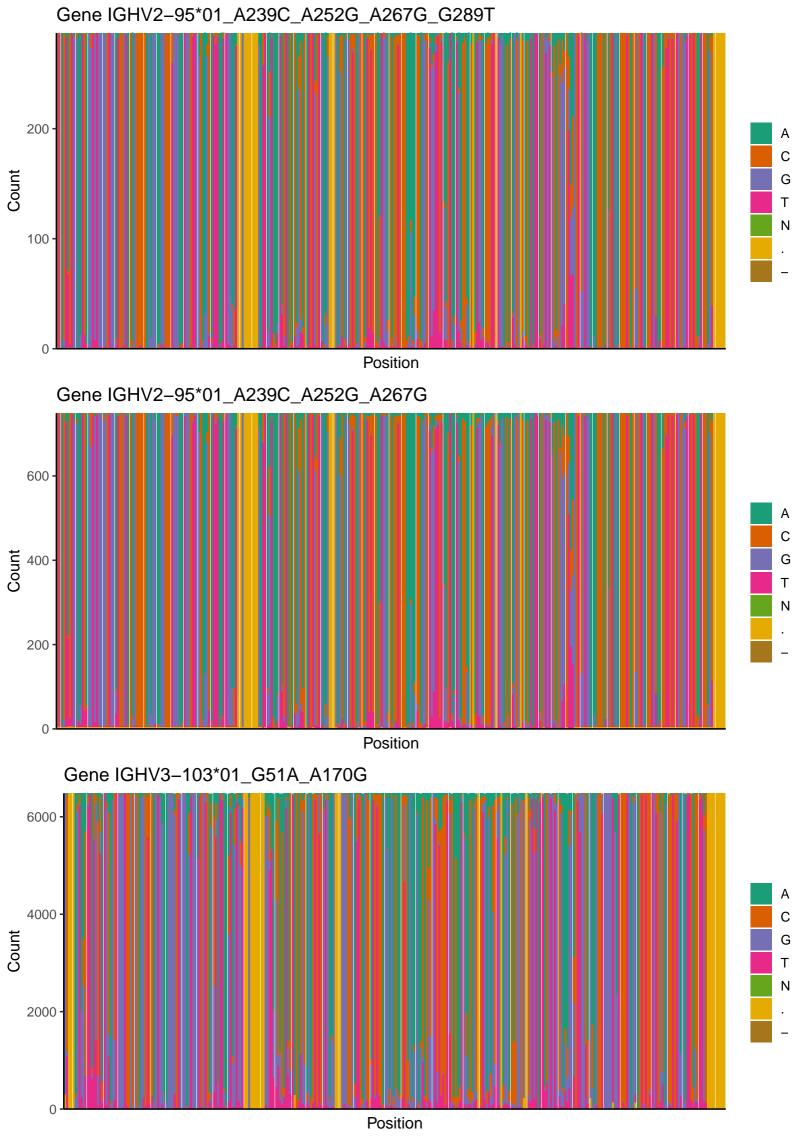
Gene IGHV4S9*01_T263C_T277A_C297G

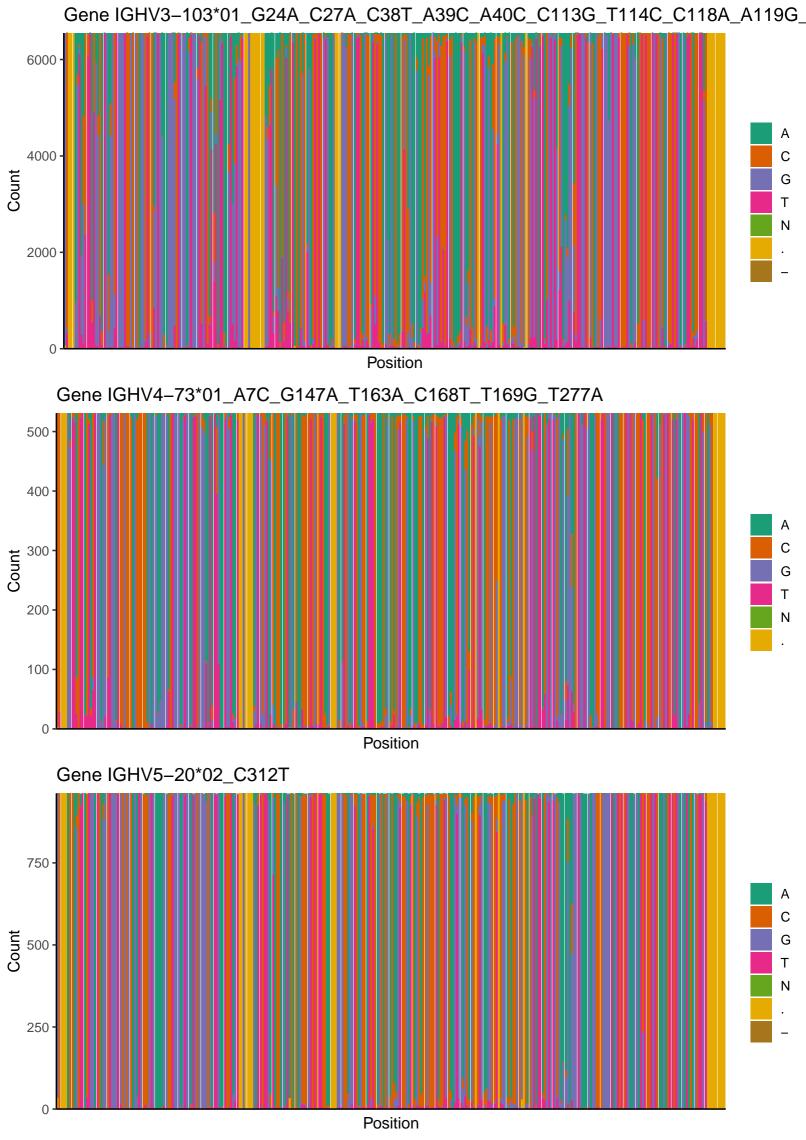


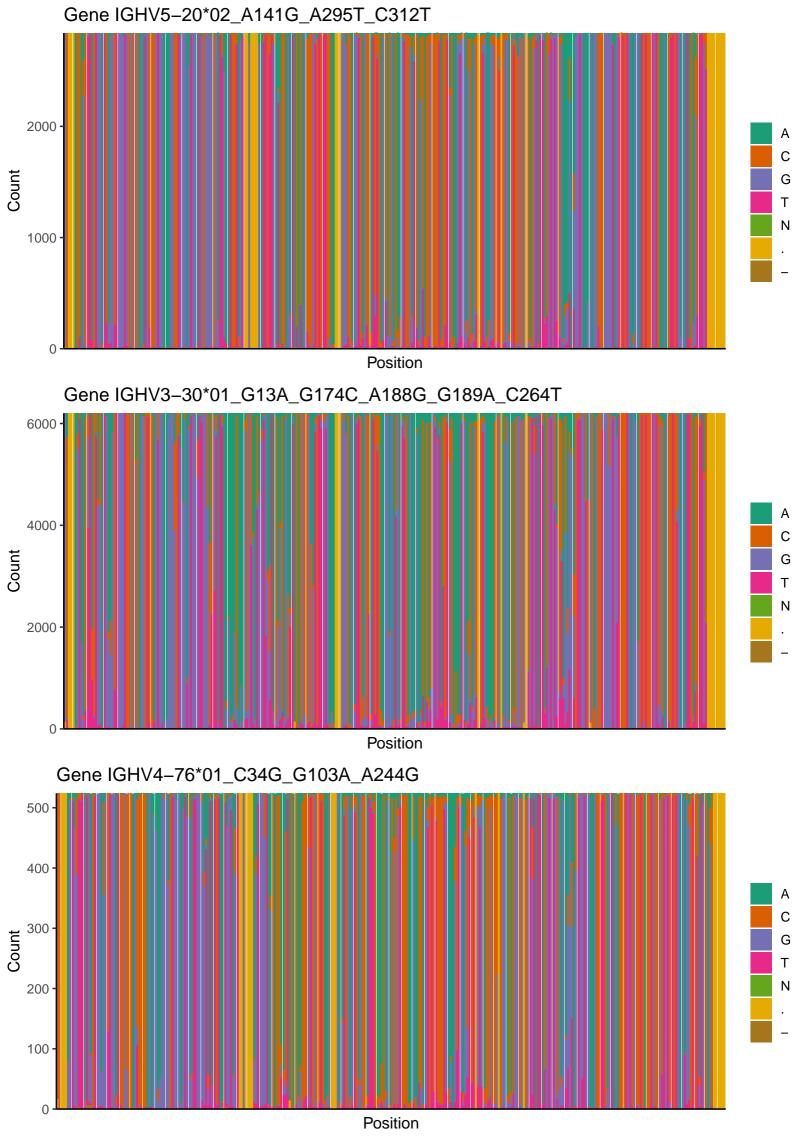


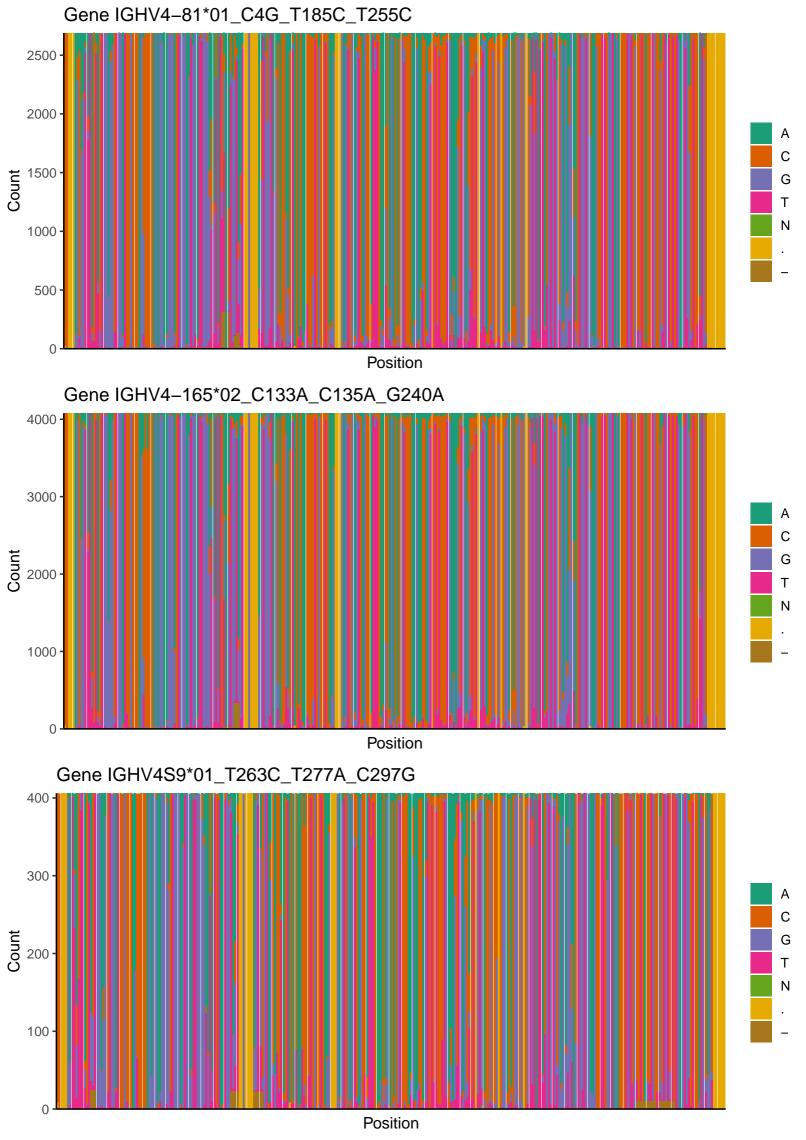


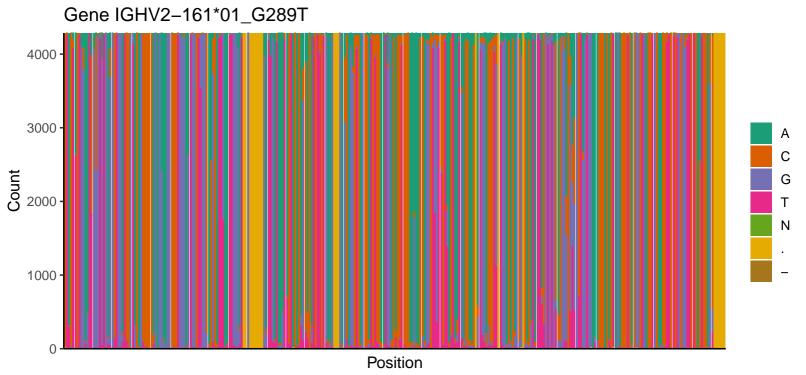


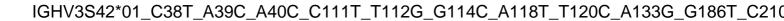


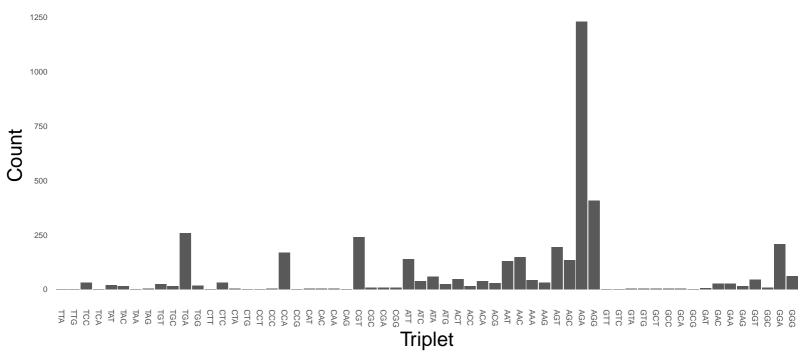




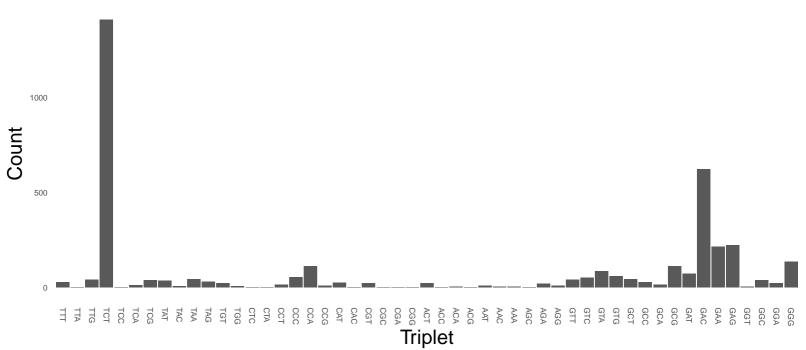




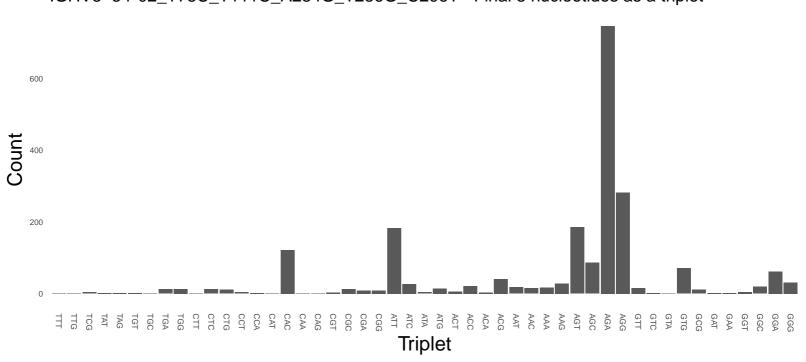




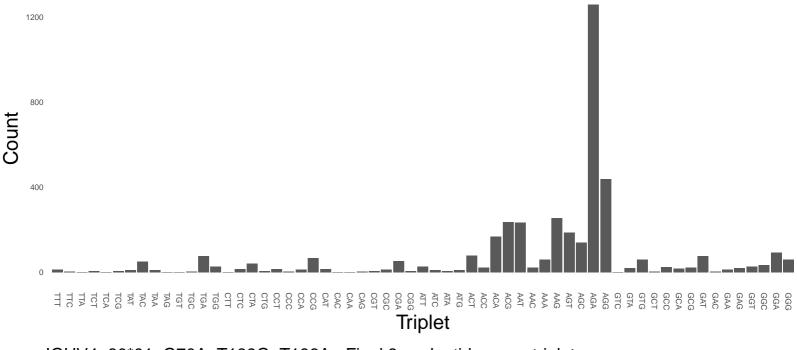
IGHV2-174*02_A267G_A289G- Final 3 nucleotides as a triplet



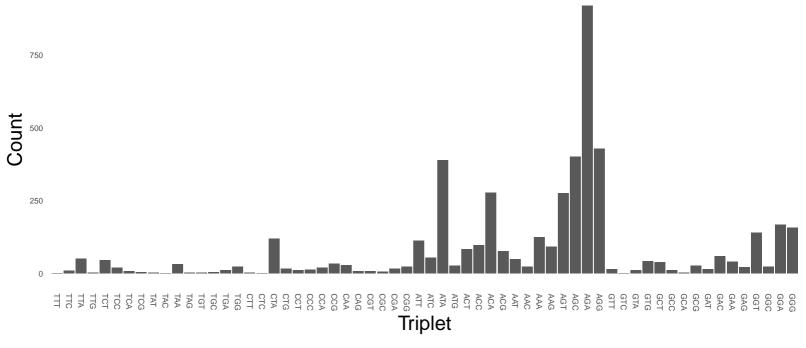
IGHV3-54*02_T78C_T111C_A284G_T286G_C296T- Final 3 nucleotides as a triplet



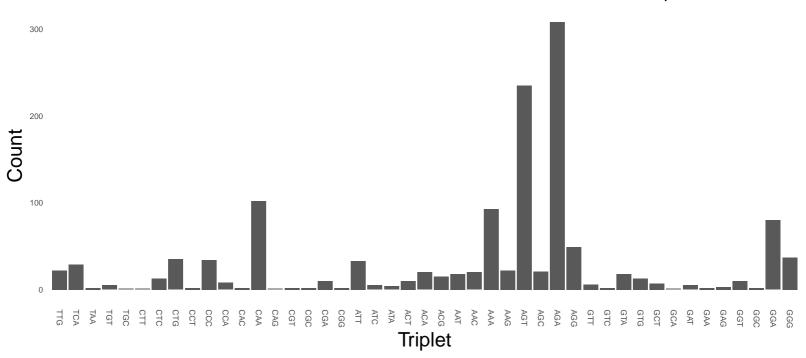
IGHV4-65*02_A48G- Final 3 nucleotides as a triplet



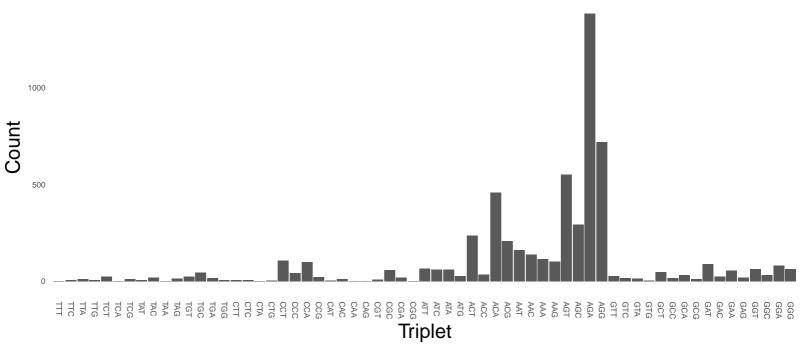
IGHV4-80*01_G70A_T189G_T196A- Final 3 nucleotides as a triplet



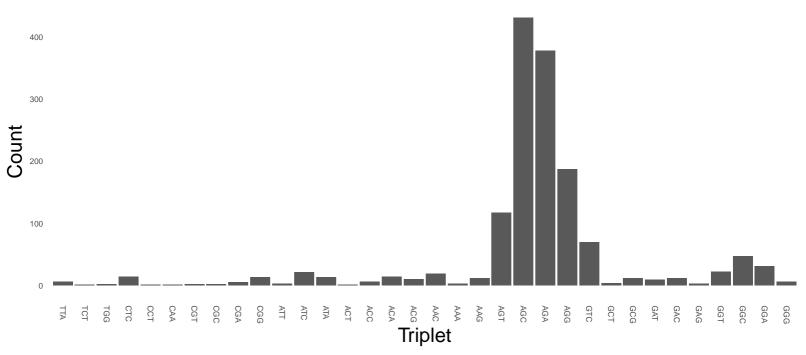
IGHV4-80*01_G70A_C90T_T109A_T189G_T196A- Final 3 nucleotides as a triplet



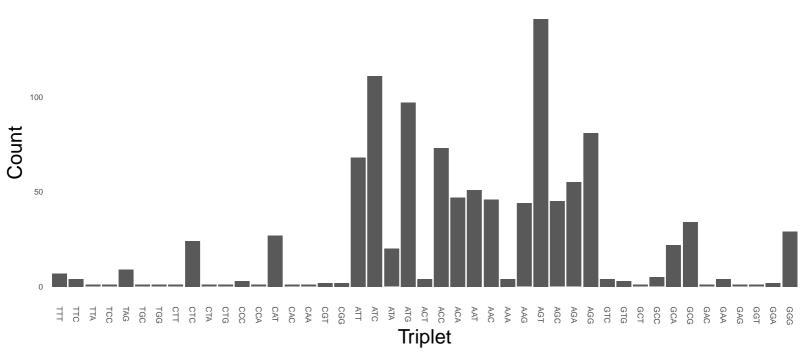
IGHV4-127*01_T82G_A83G_T111C_G112T_G113A_G132A_A196T- Final 3 nucleotides as a tri



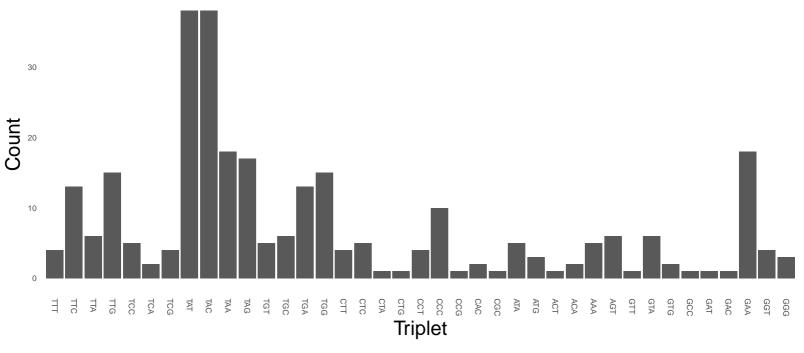
IGHV4S13*01_T85A_G267A_G289A- Final 3 nucleotides as a triplet



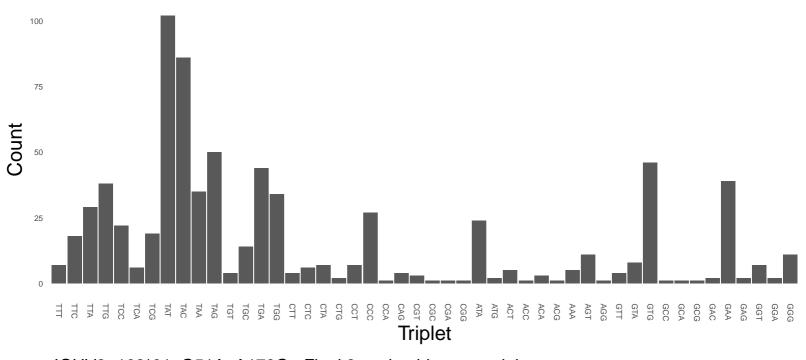
IGHV5-43*01_A51G- Final 3 nucleotides as a triplet



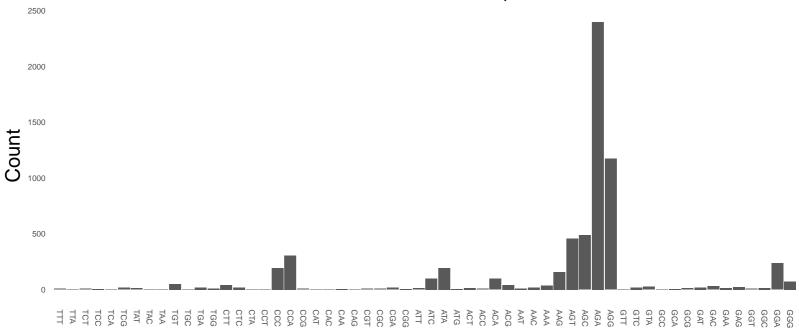
IGHV2-95*01_A239C_A252G_A267G_G289T- Final 3 nucleotides as a triplet



IGHV2-95*01_A239C_A252G_A267G- Final 3 nucleotides as a triplet

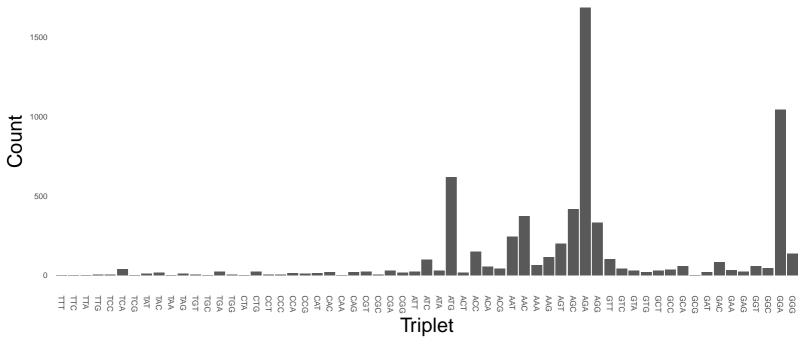


IGHV3-103*01_G51A_A170G- Final 3 nucleotides as a triplet

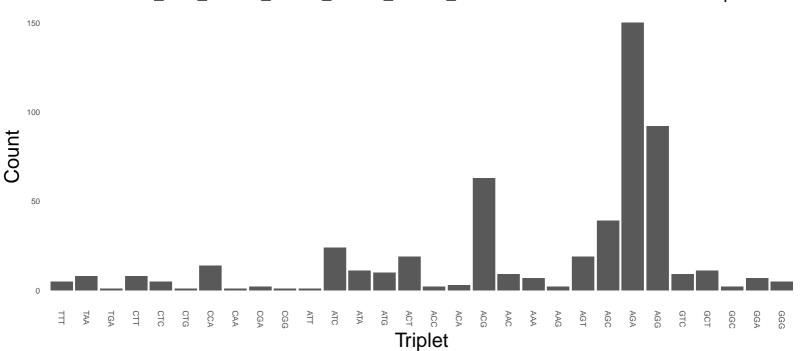


Triplet

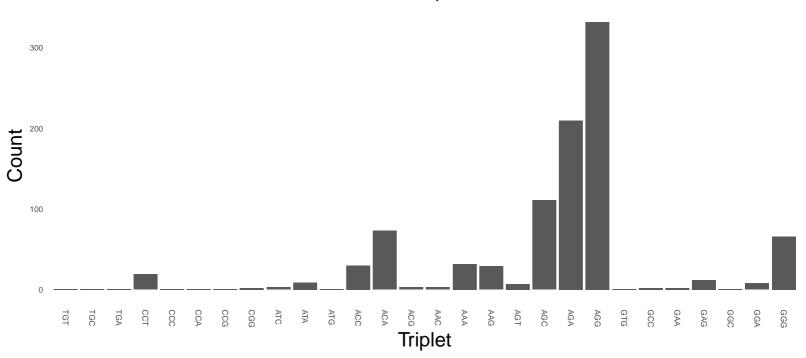
IGHV3-103*01_G24A_C27A_C38T_A39C_A40C_C113G_T114C_C118A_A119G_G163T_C164A



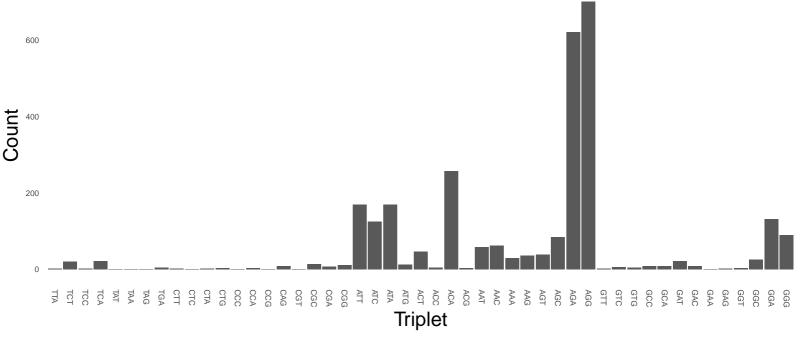
IGHV4-73*01_A7C_G147A_T163A_C168T_T169G_T277A- Final 3 nucleotides as a triplet



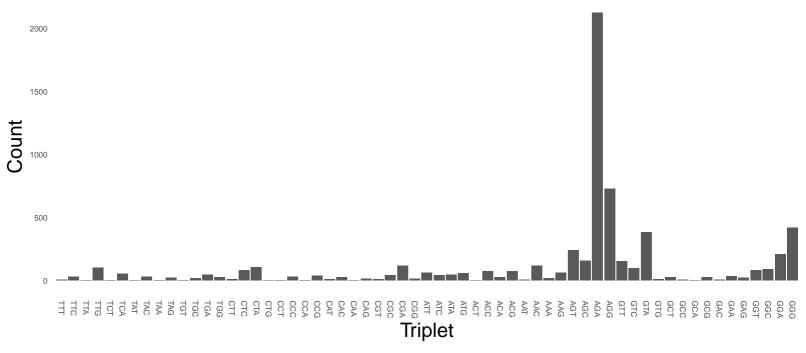
IGHV5-20*02_C312T- Final 3 nucleotides as a triplet



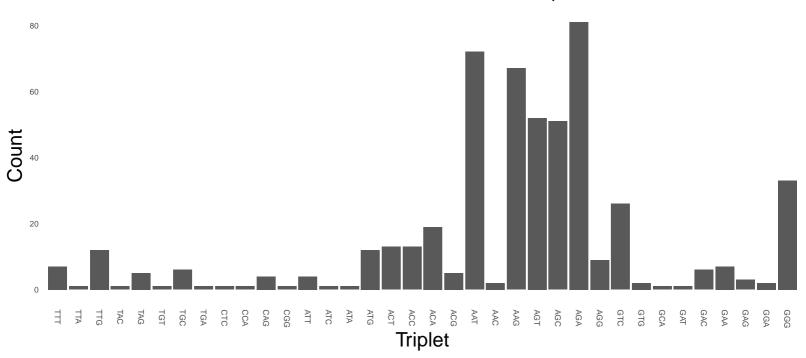
IGHV5-20*02_A141G_A295T_C312T- Final 3 nucleotides as a triplet



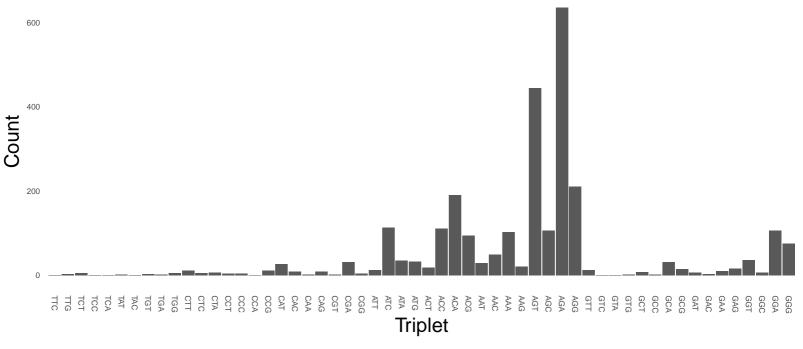
IGHV3-30*01_G13A_G174C_A188G_G189A_C264T- Final 3 nucleotides as a triplet



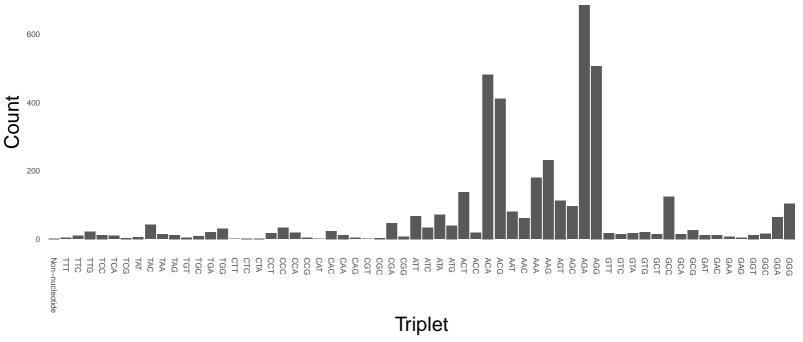
IGHV4-76*01_C34G_G103A_A244G- Final 3 nucleotides as a triplet



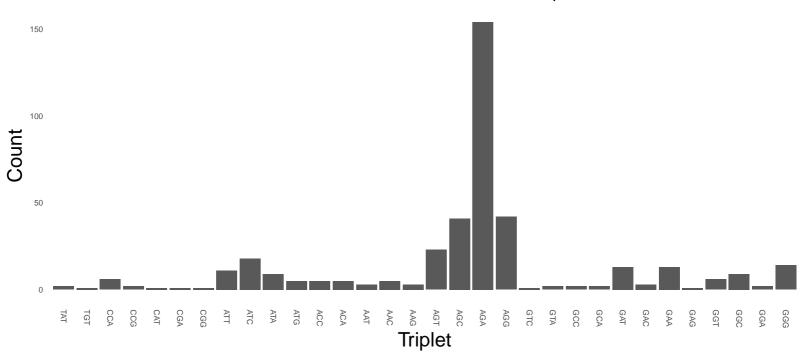
IGHV4-81*01_C4G_T185C_T255C- Final 3 nucleotides as a triplet



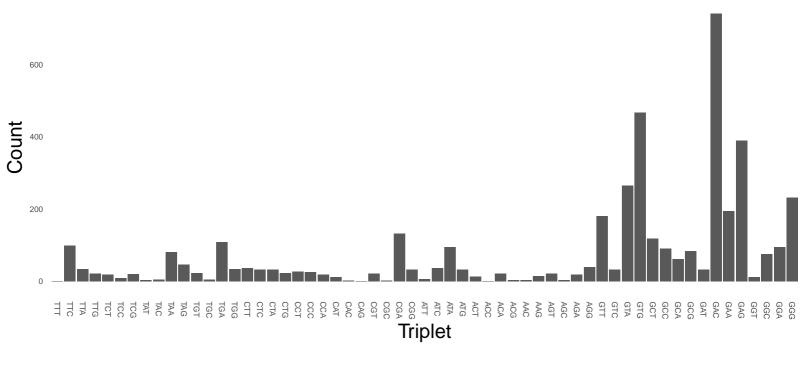
IGHV4-165*02_C133A_C135A_G240A- Final 3 nucleotides as a triplet

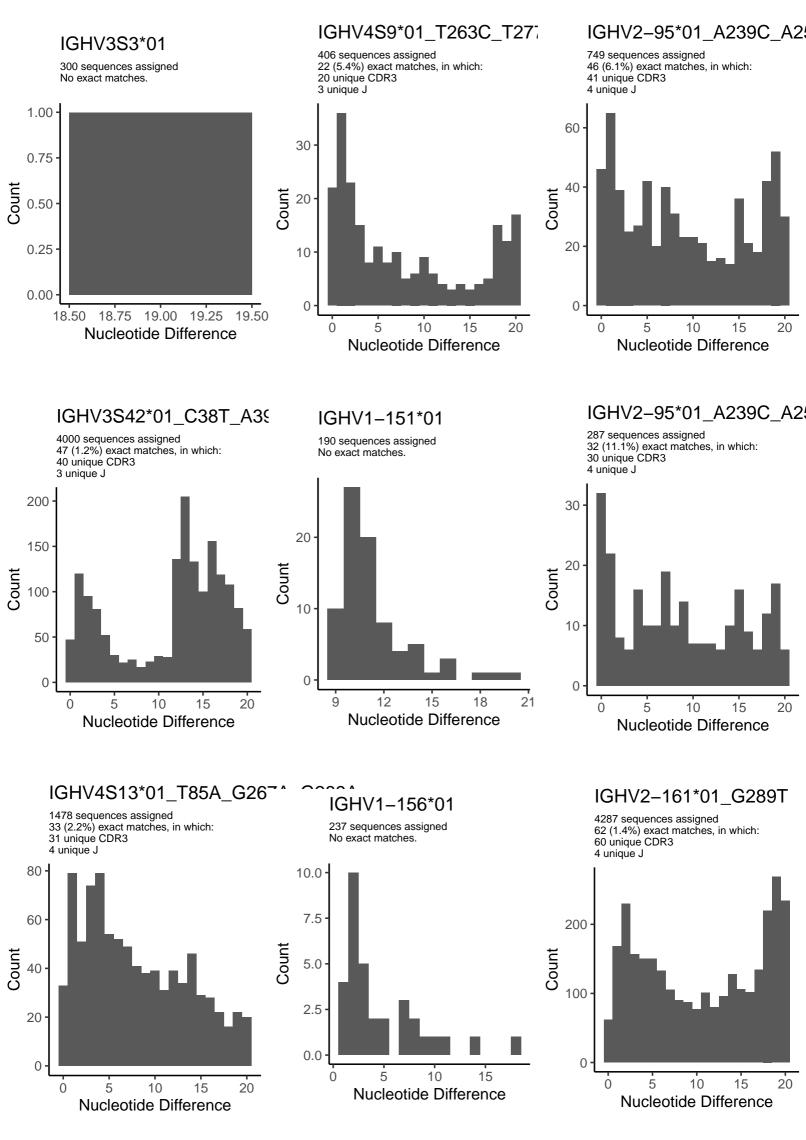


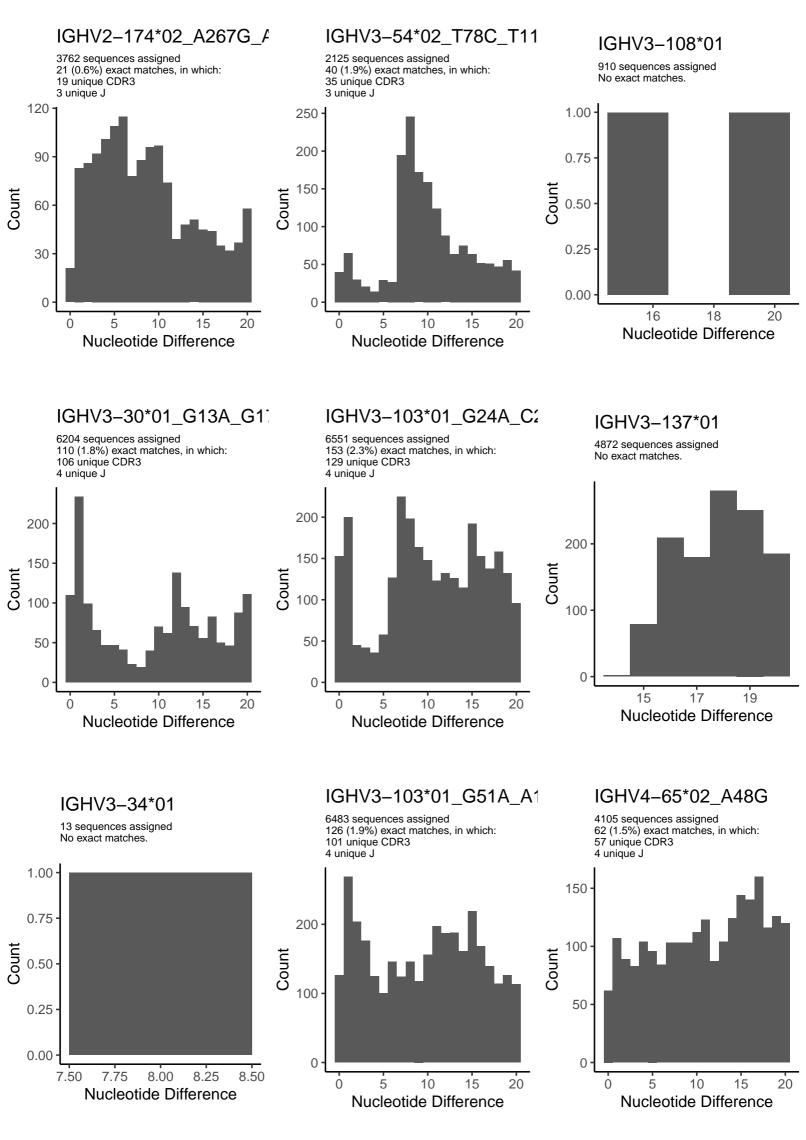
IGHV4S9*01_T263C_T277A_C297G- Final 3 nucleotides as a triplet

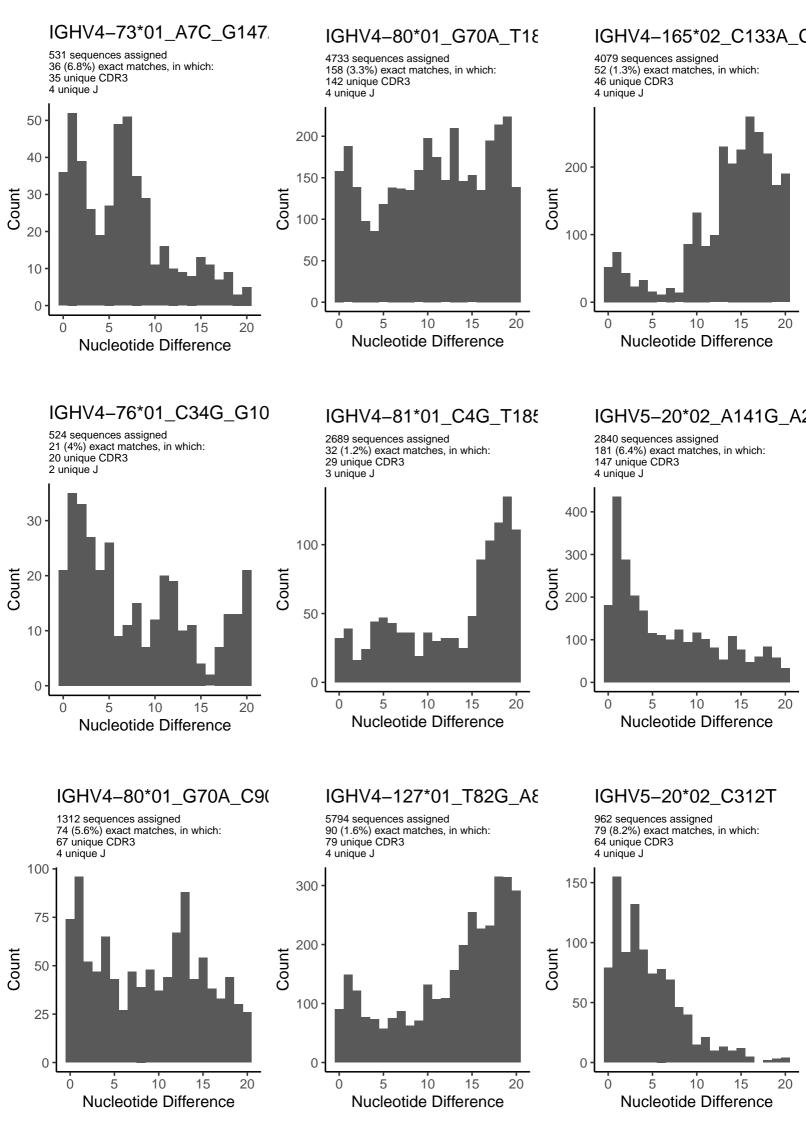


IGHV2-161*01_G289T- Final 3 nucleotides as a triplet



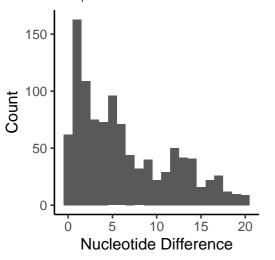






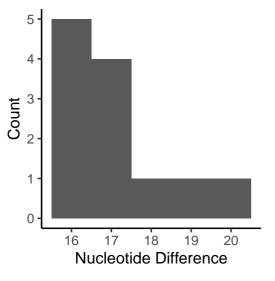
IGHV5-43*01_A51G

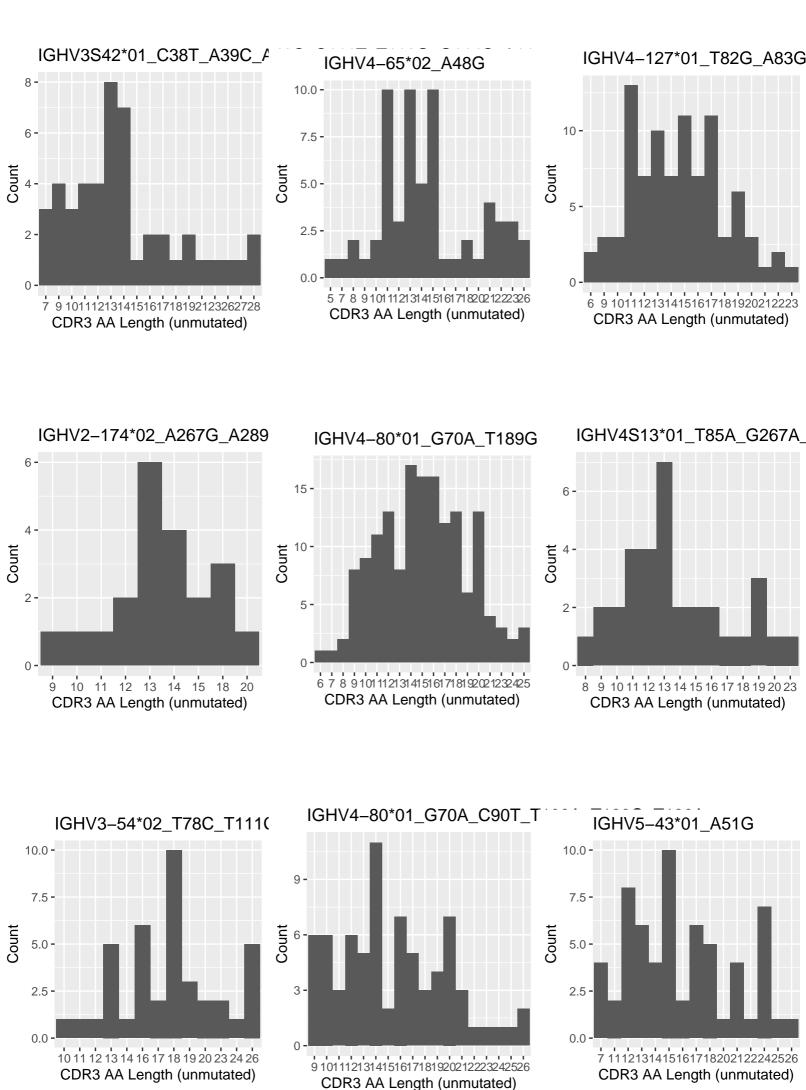
1082 sequences assigned 62 (5.7%) exact matches, in which: 51 unique CDR3 4 unique J

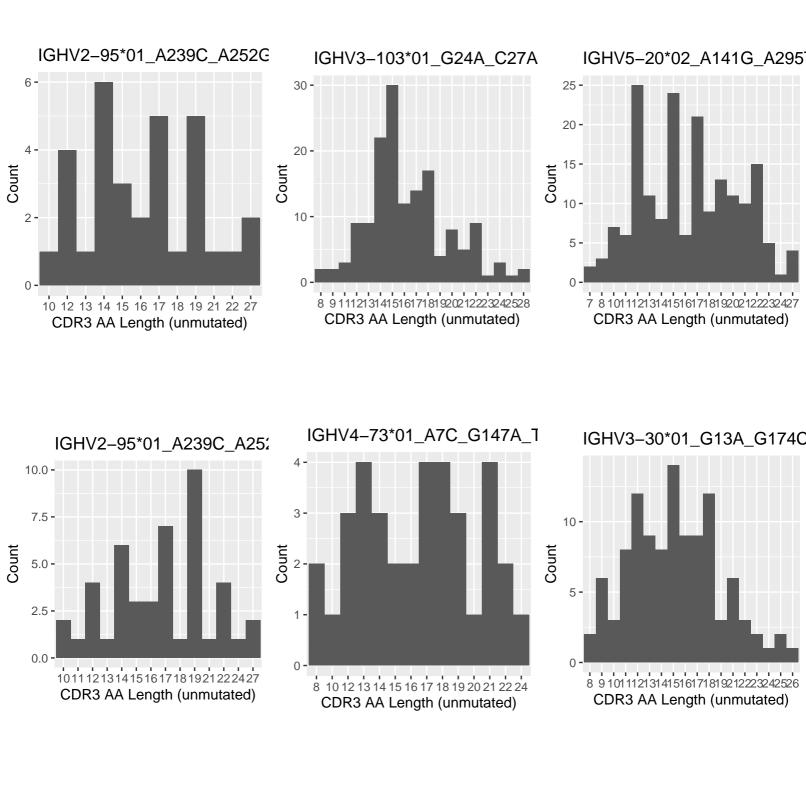


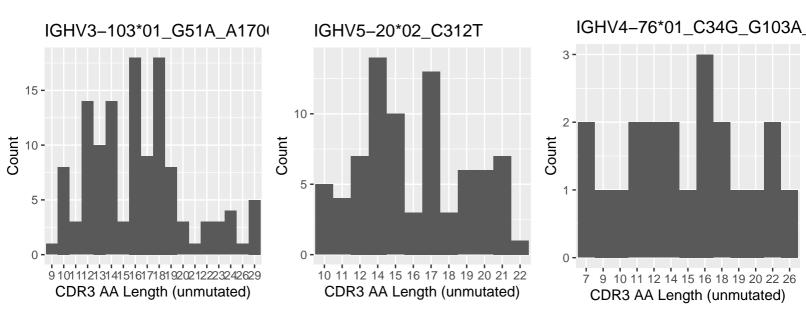
IGHV7-94*01

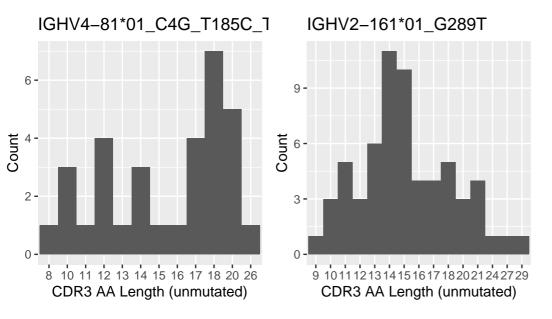
29 sequences assigned No exact matches.

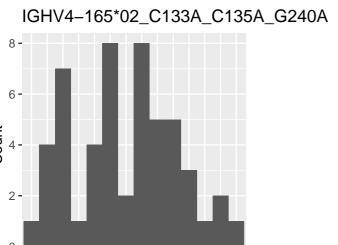




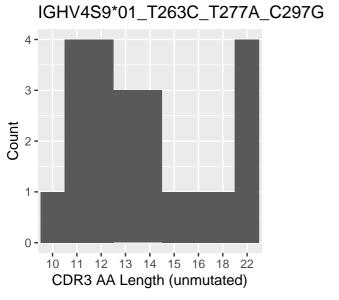








9 10 11 12 13 14 15 16 17 18 19 20 23 24 CDR3 AA Length (unmutated)





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.