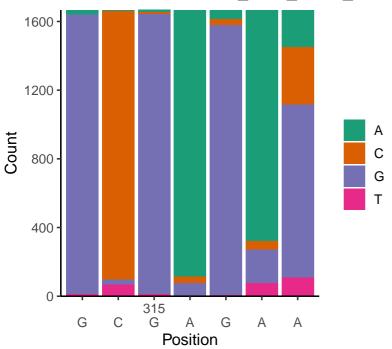
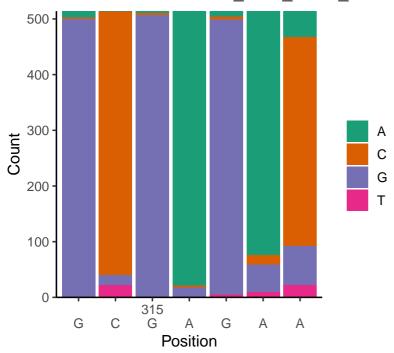
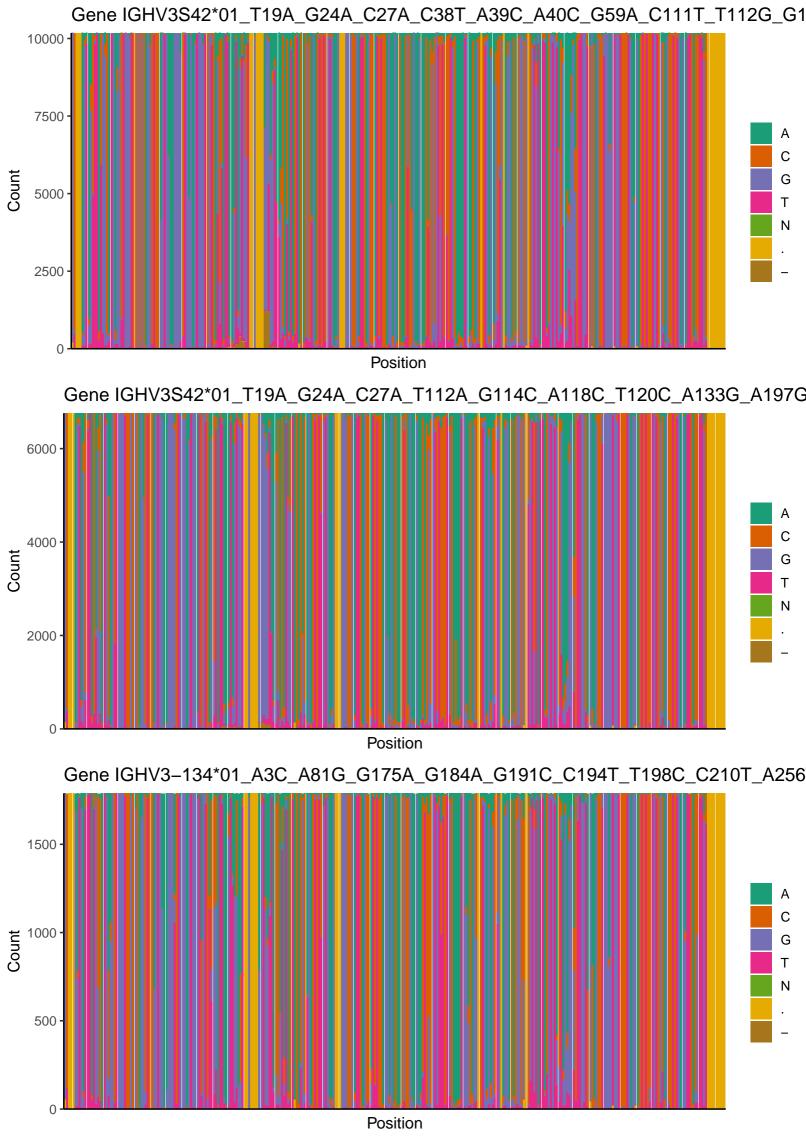


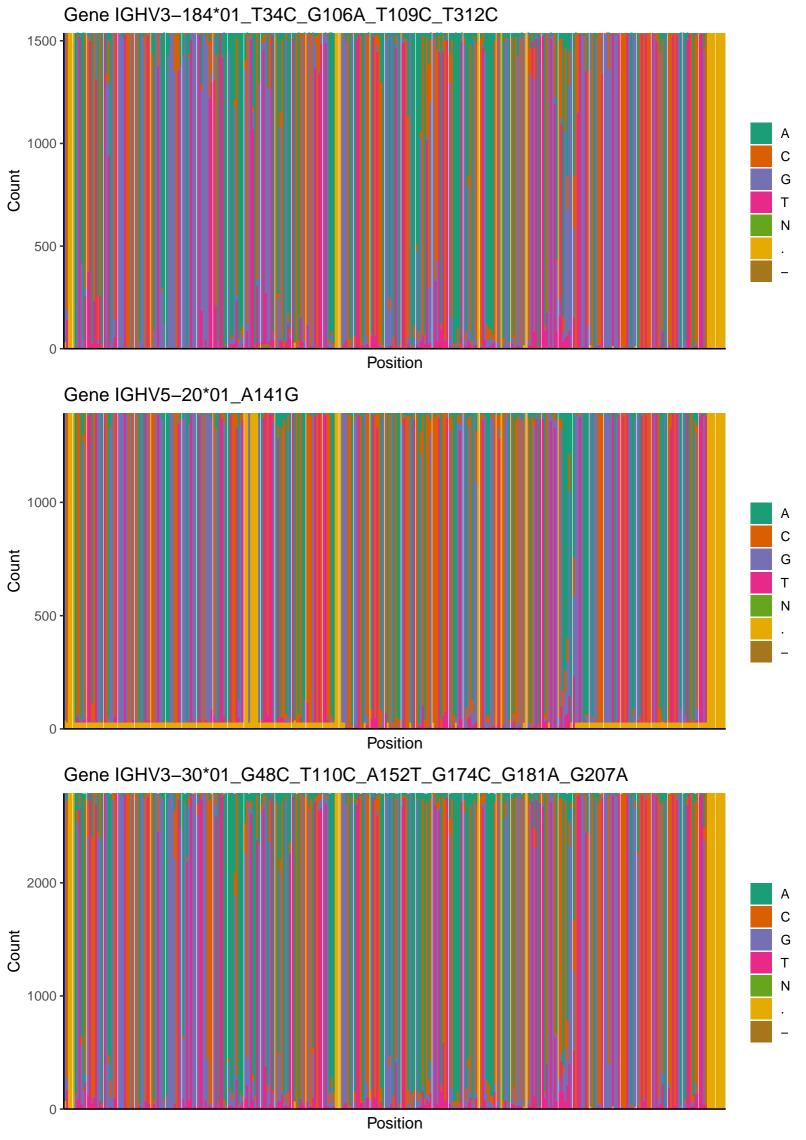
Gene IGHV4-169*01_C4G_T60C_G61C_T163C_A164G_T169G_G172A_T189G_A196T

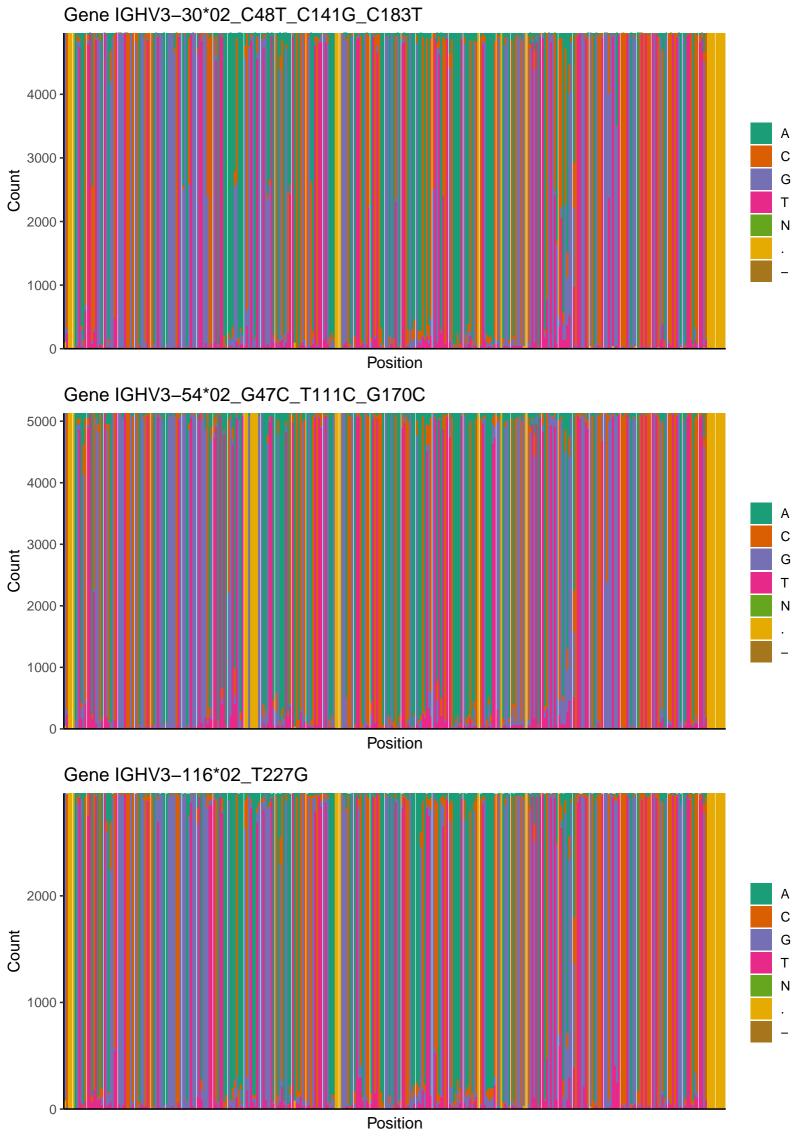


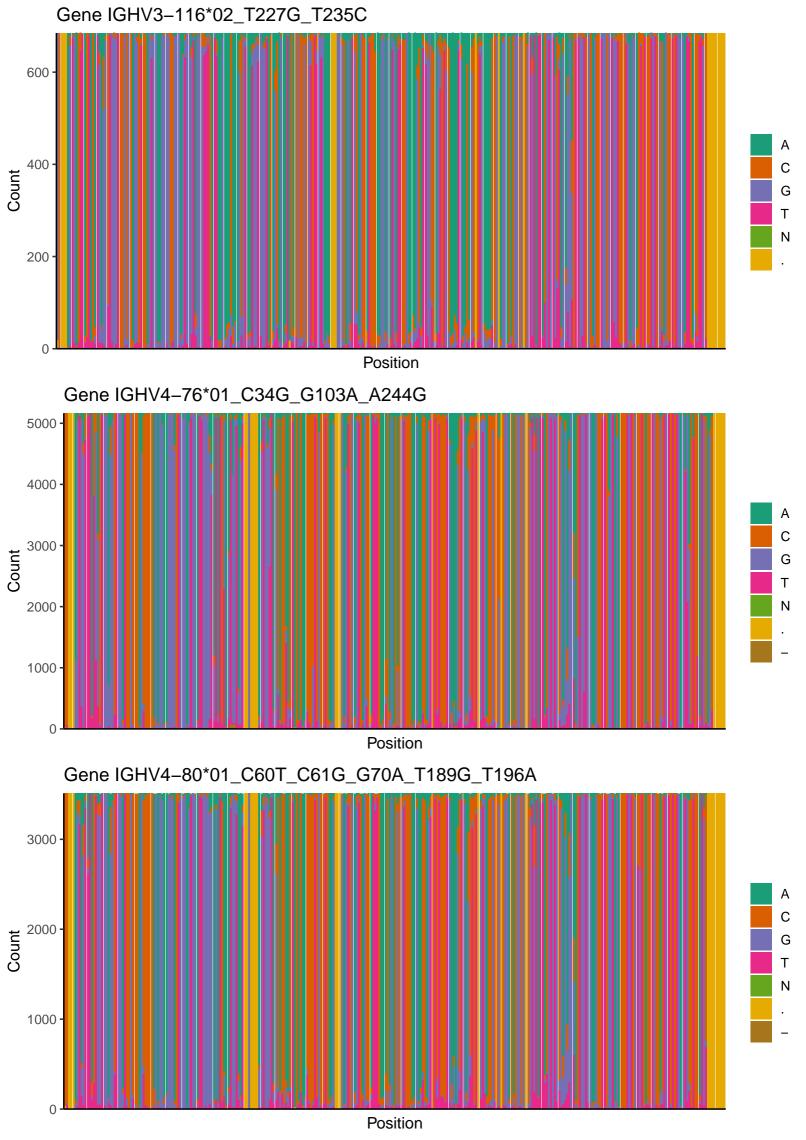
Gene IGHV4-169*01_C4G_T60C_G61C_T163C_A164G_T169G_G172A_T189G_A196T_

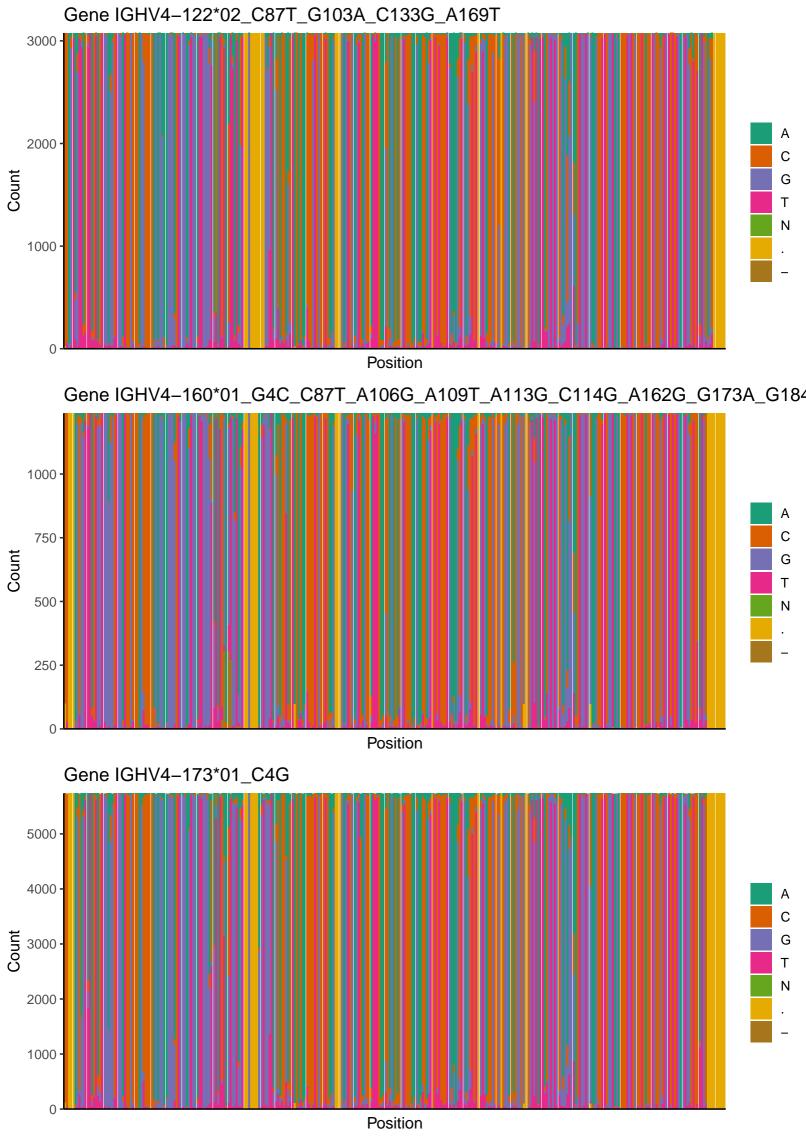


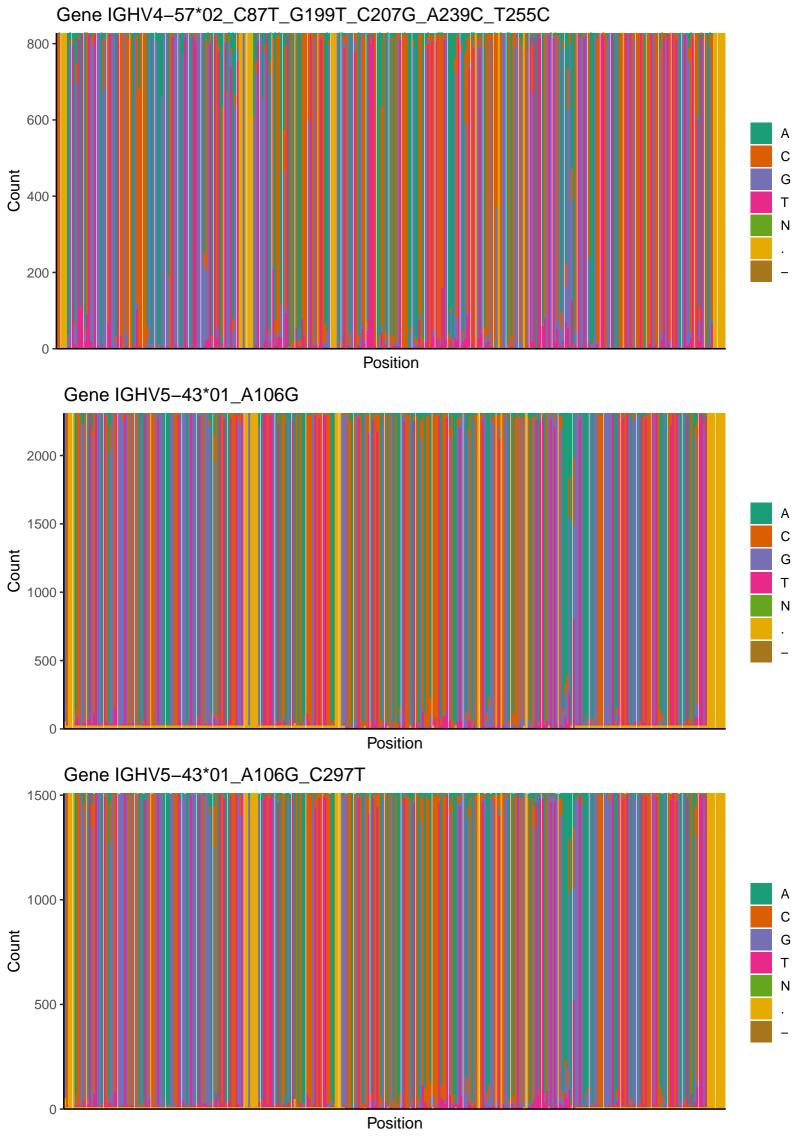


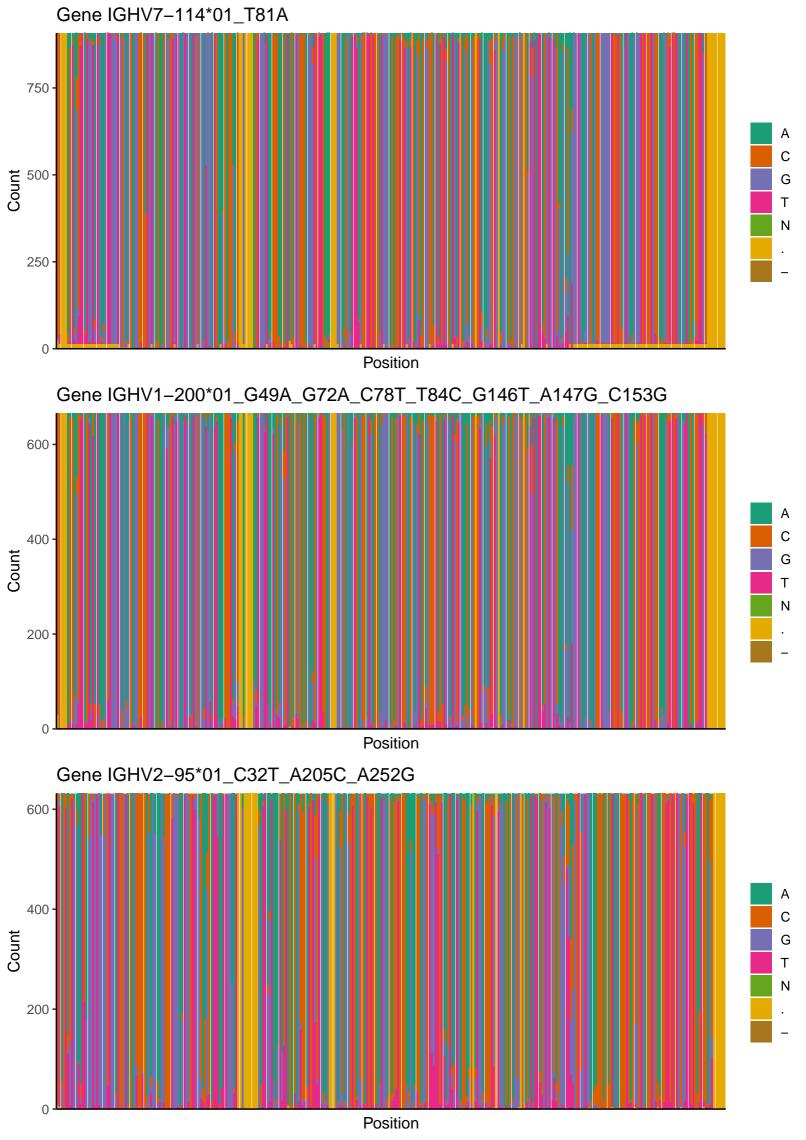


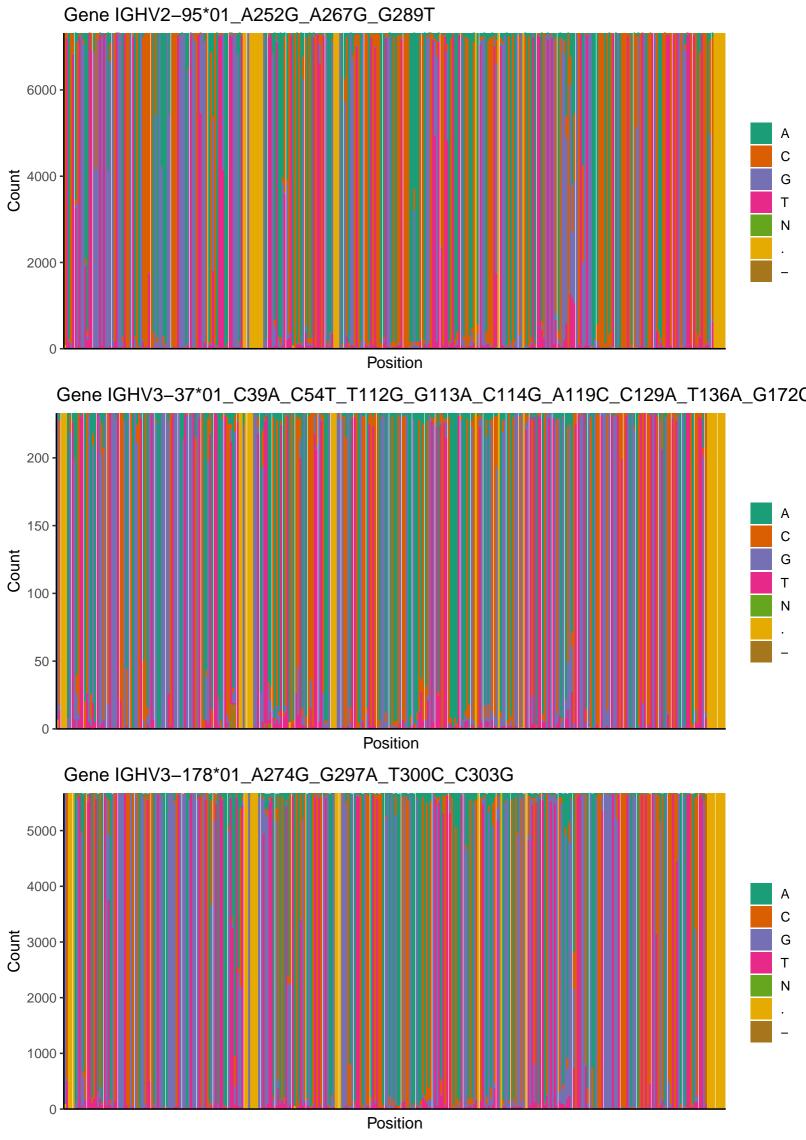


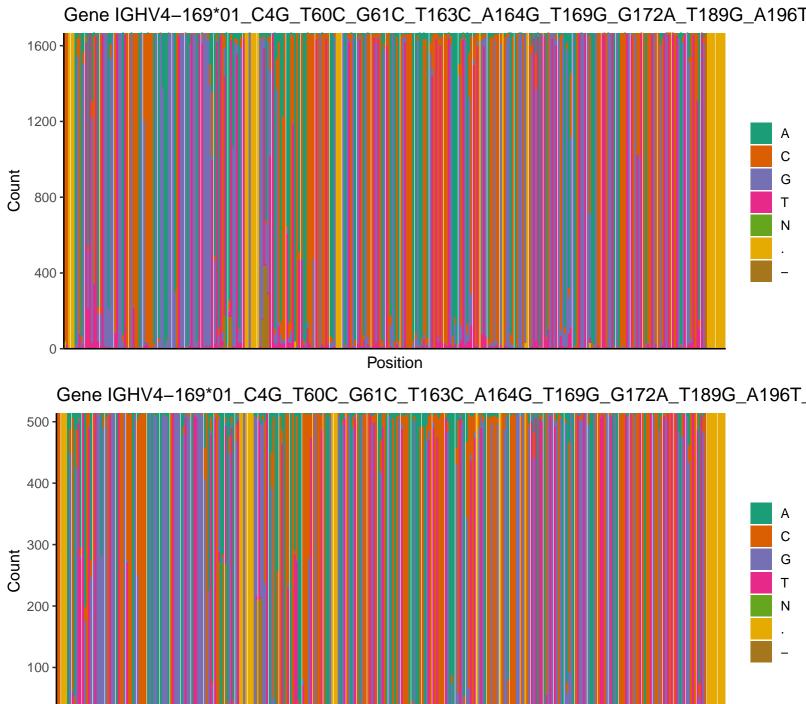




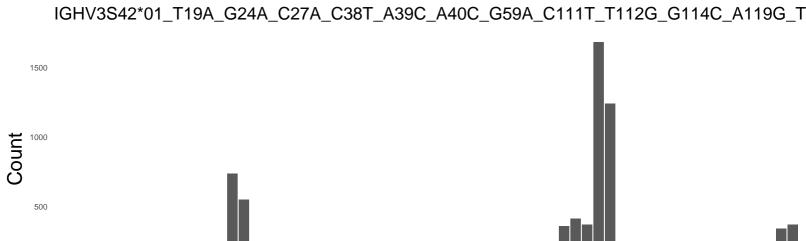






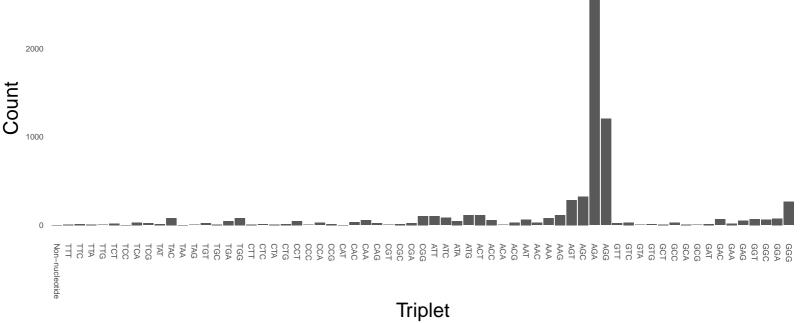


Position

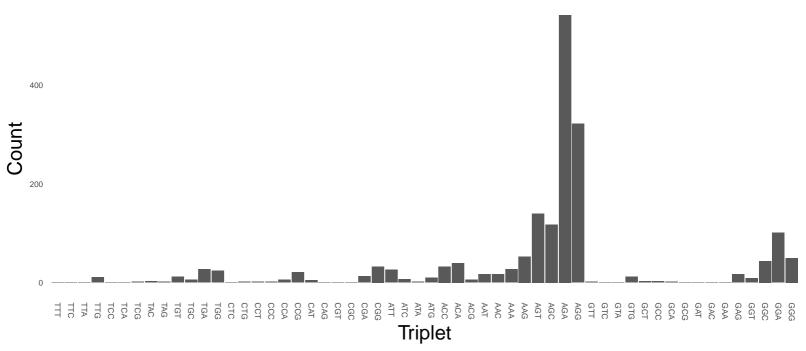


Triplet

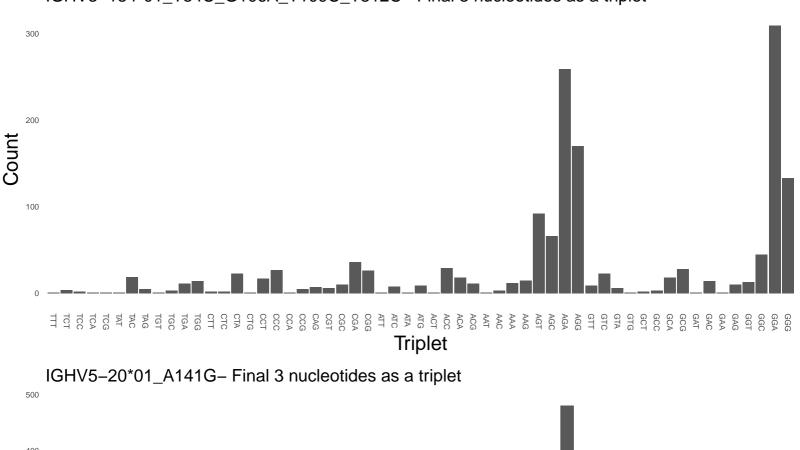
IGHV3S42*01_T19A_G24A_C27A_T112A_G114C_A118C_T120C_A133G_A197G_C198G_G20

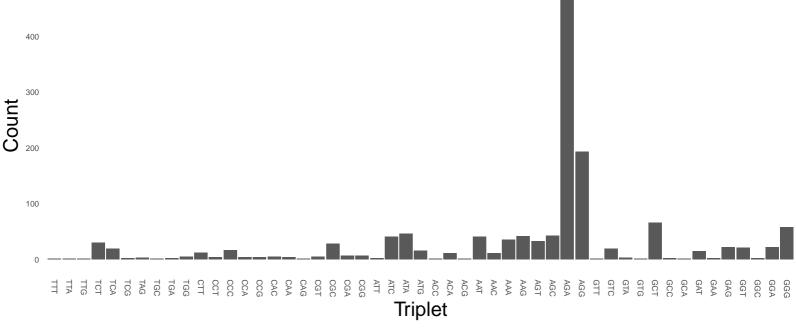


IGHV3-134*01_A3C_A81G_G175A_G184A_G191C_C194T_T198C_C210T_A256T_A258C_A26

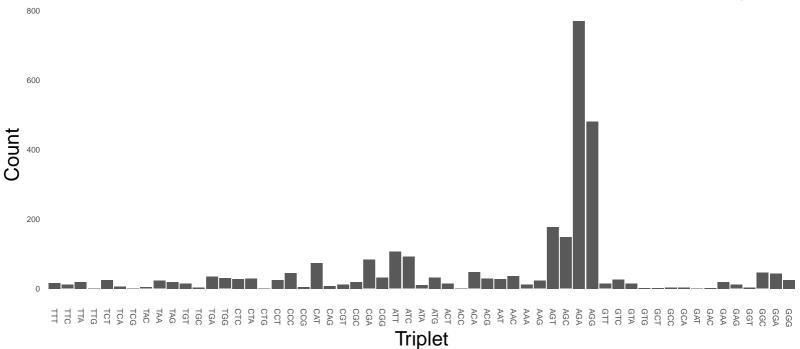


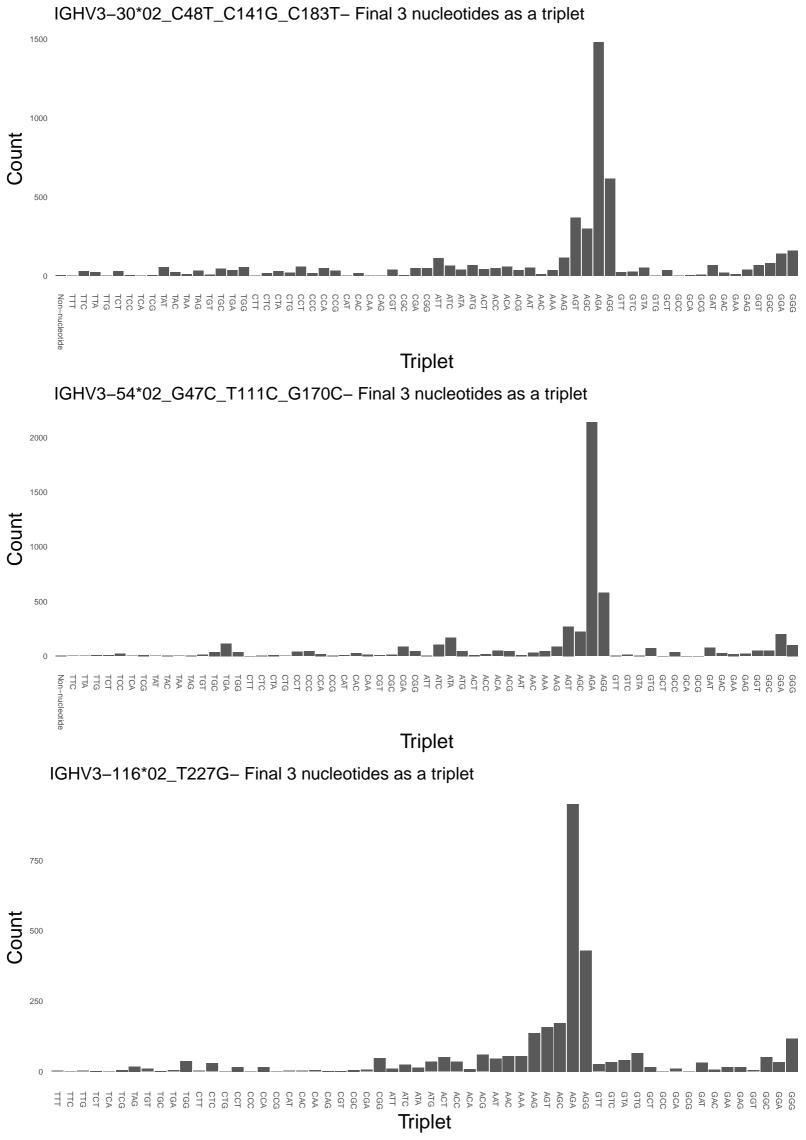
IGHV3-184*01_T34C_G106A_T109C_T312C- Final 3 nucleotides as a triplet



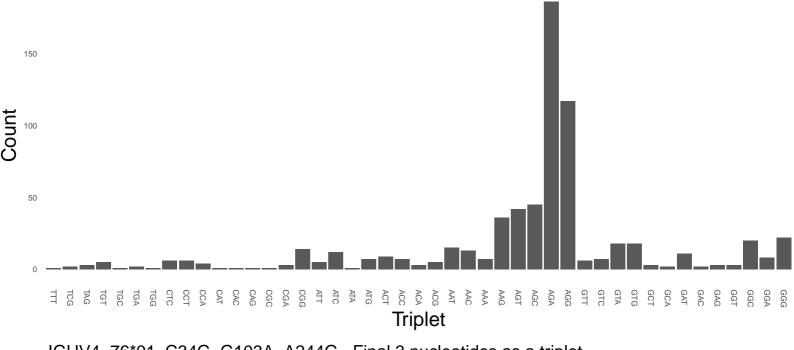


IGHV3-30*01_G48C_T110C_A152T_G174C_G181A_G207A- Final 3 nucleotides as a triplet

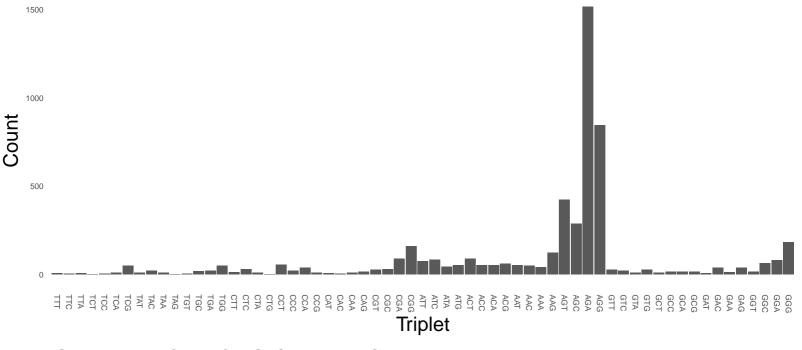




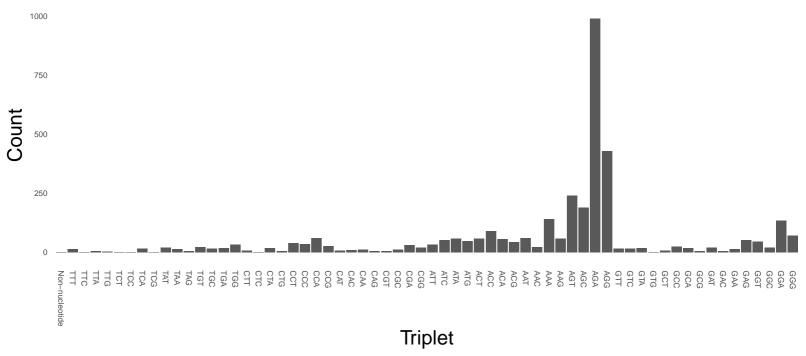
IGHV3-116*02_T227G_T235C- Final 3 nucleotides as a triplet



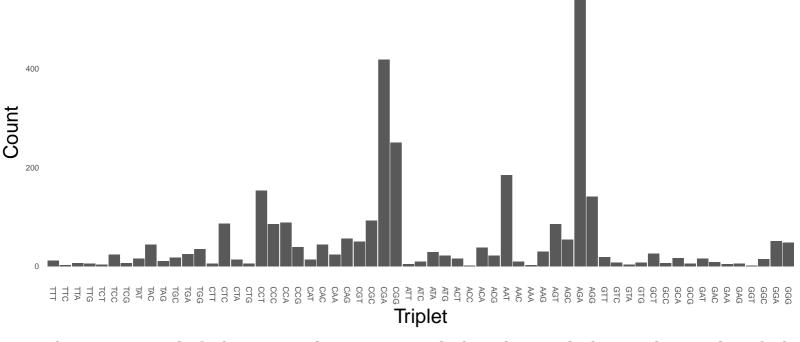
IGHV4-76*01_C34G_G103A_A244G- Final 3 nucleotides as a triplet



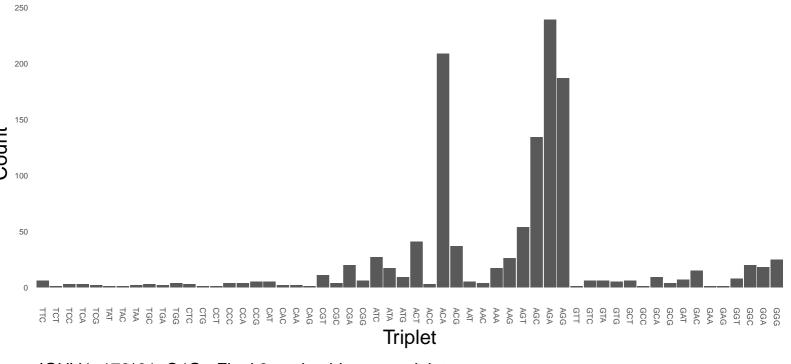
IGHV4-80*01_C60T_C61G_G70A_T189G_T196A- Final 3 nucleotides as a triplet



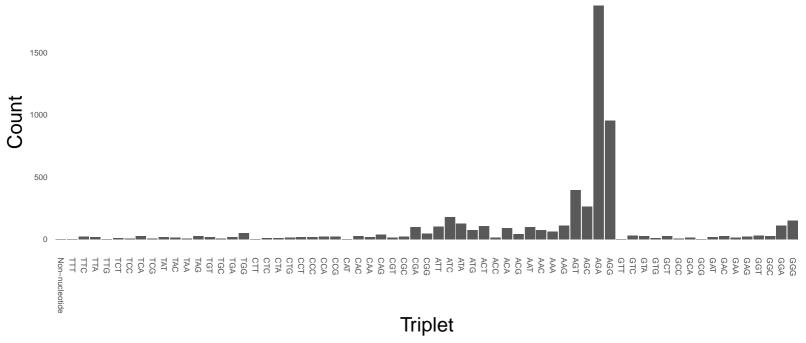
IGHV4-122*02_C87T_G103A_C133G_A169T- Final 3 nucleotides as a triplet



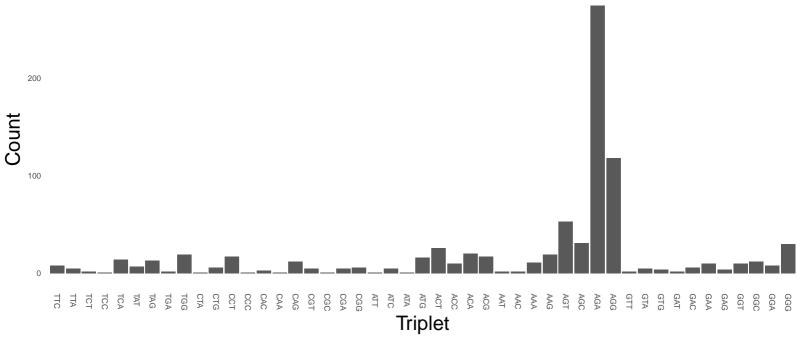
IGHV4-160*01_G4C_C87T_A106G_A109T_A113G_C114G_A162G_G173A_G184A_G224C_C2



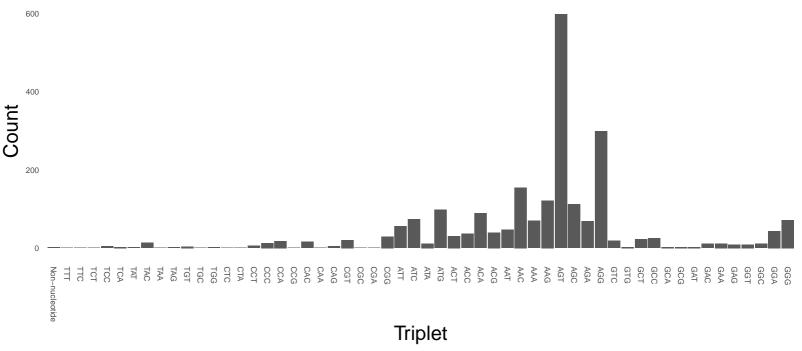
IGHV4-173*01_C4G- Final 3 nucleotides as a triplet



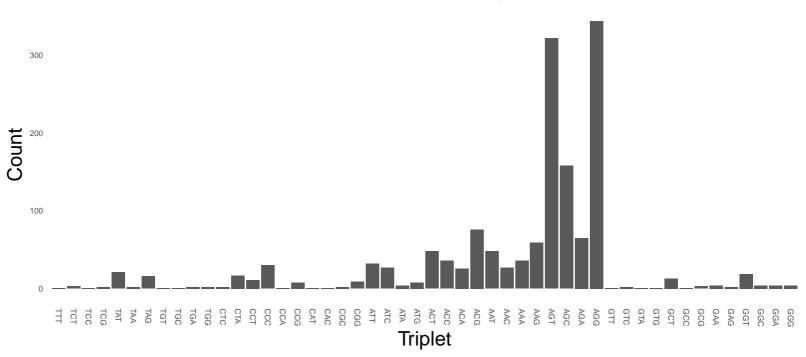
IGHV4-57*02_C87T_G199T_C207G_A239C_T255C- Final 3 nucleotides as a triplet



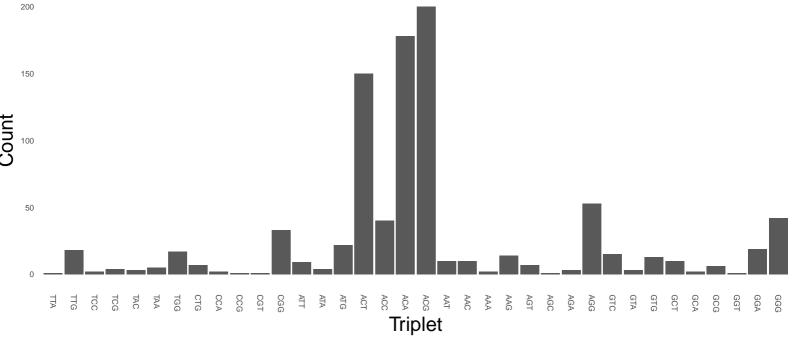
IGHV5-43*01_A106G- Final 3 nucleotides as a triplet



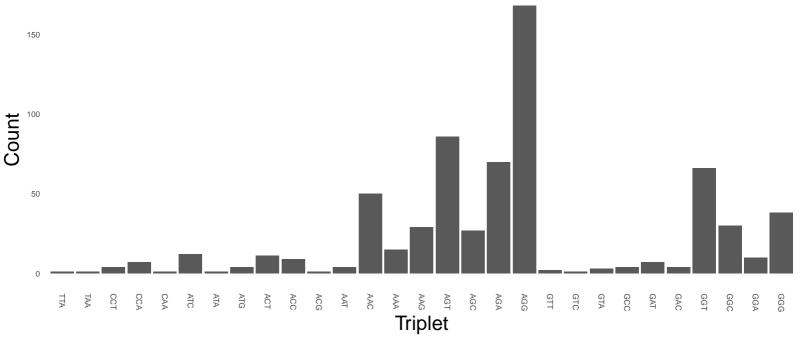
IGHV5-43*01_A106G_C297T- Final 3 nucleotides as a triplet



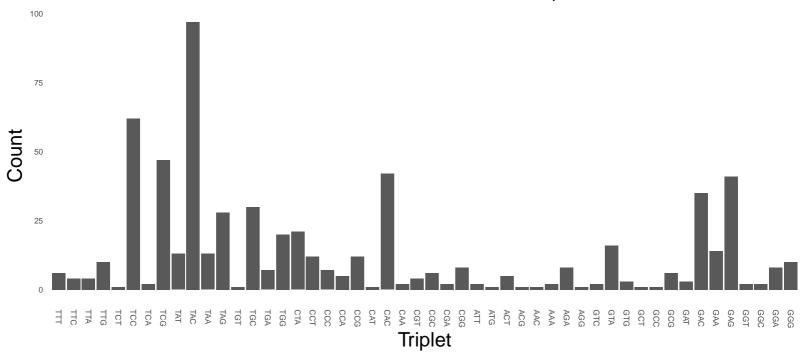
IGHV7-114*01_T81A- Final 3 nucleotides as a triplet



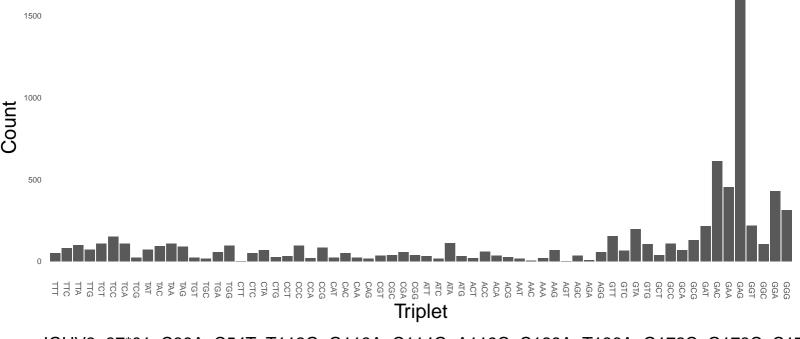
IGHV1-200*01_G49A_G72A_C78T_T84C_G146T_A147G_C153G- Final 3 nucleotides as a triple



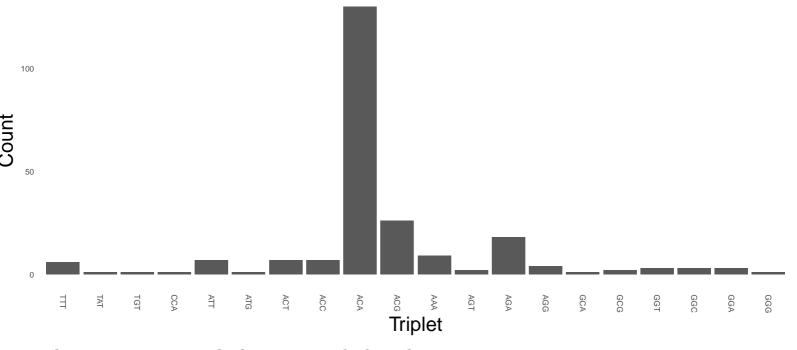
IGHV2-95*01_C32T_A205C_A252G- Final 3 nucleotides as a triplet



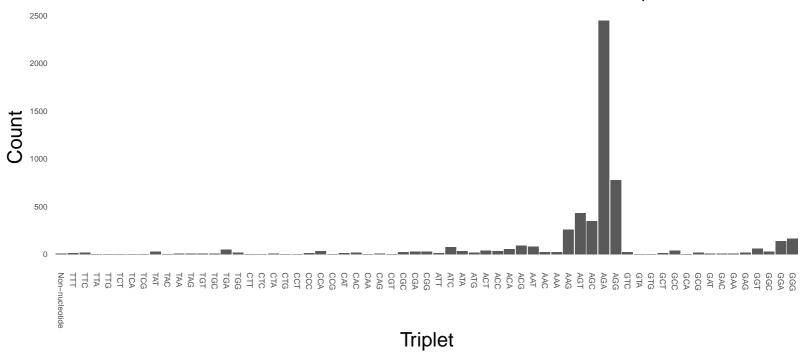
IGHV2-95*01_A252G_A267G_G289T- Final 3 nucleotides as a triplet

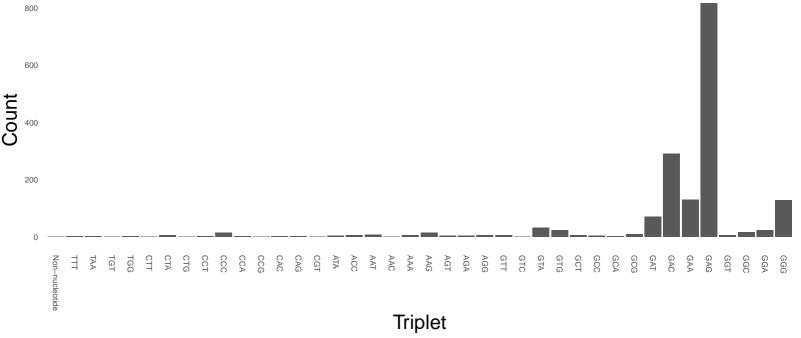


IGHV3-37*01_C39A_C54T_T112G_G113A_C114G_A119C_C129A_T136A_G172C_G173C_C17

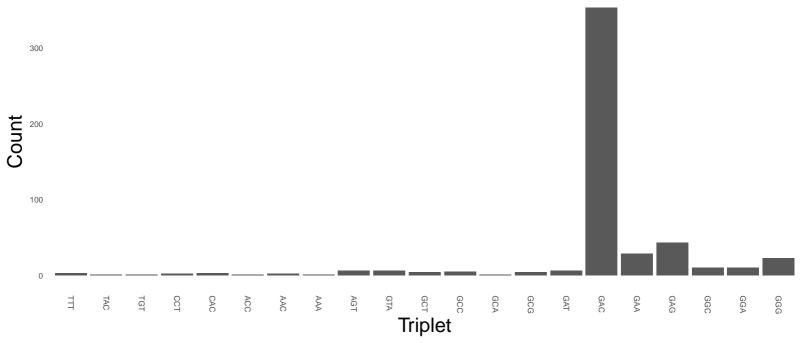


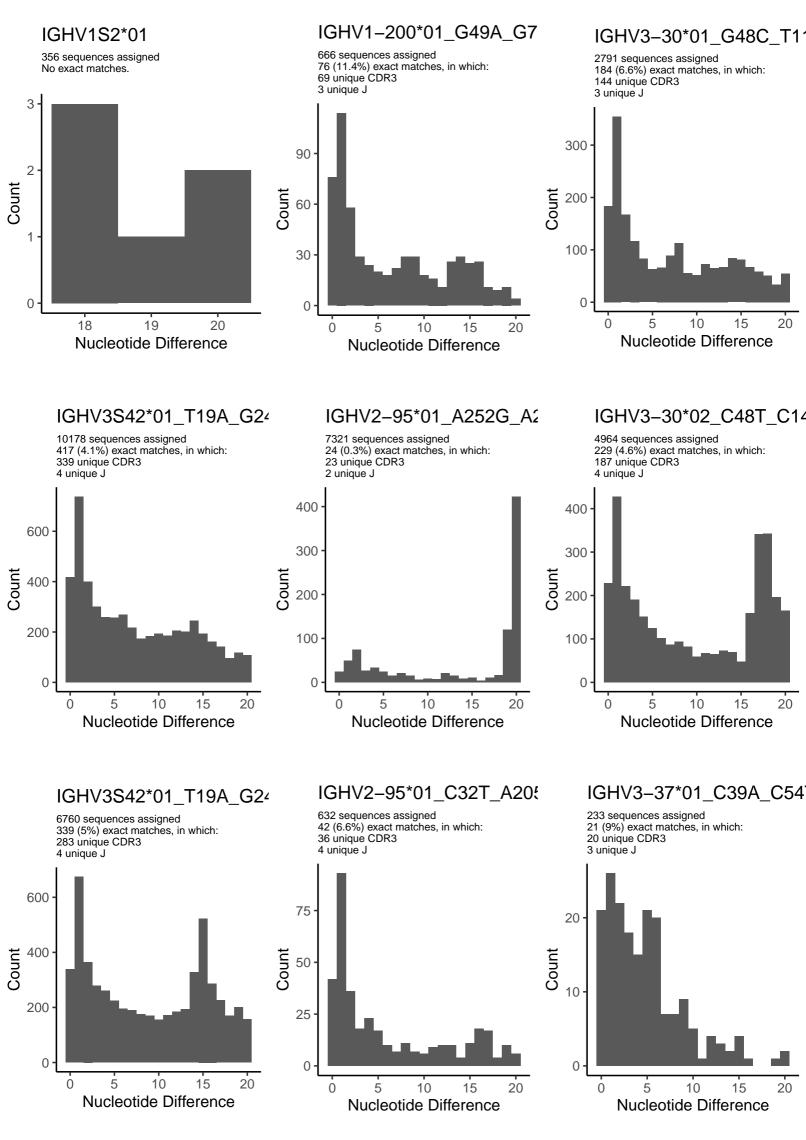
IGHV3-178*01_A274G_G297A_T300C_C303G- Final 3 nucleotides as a triplet

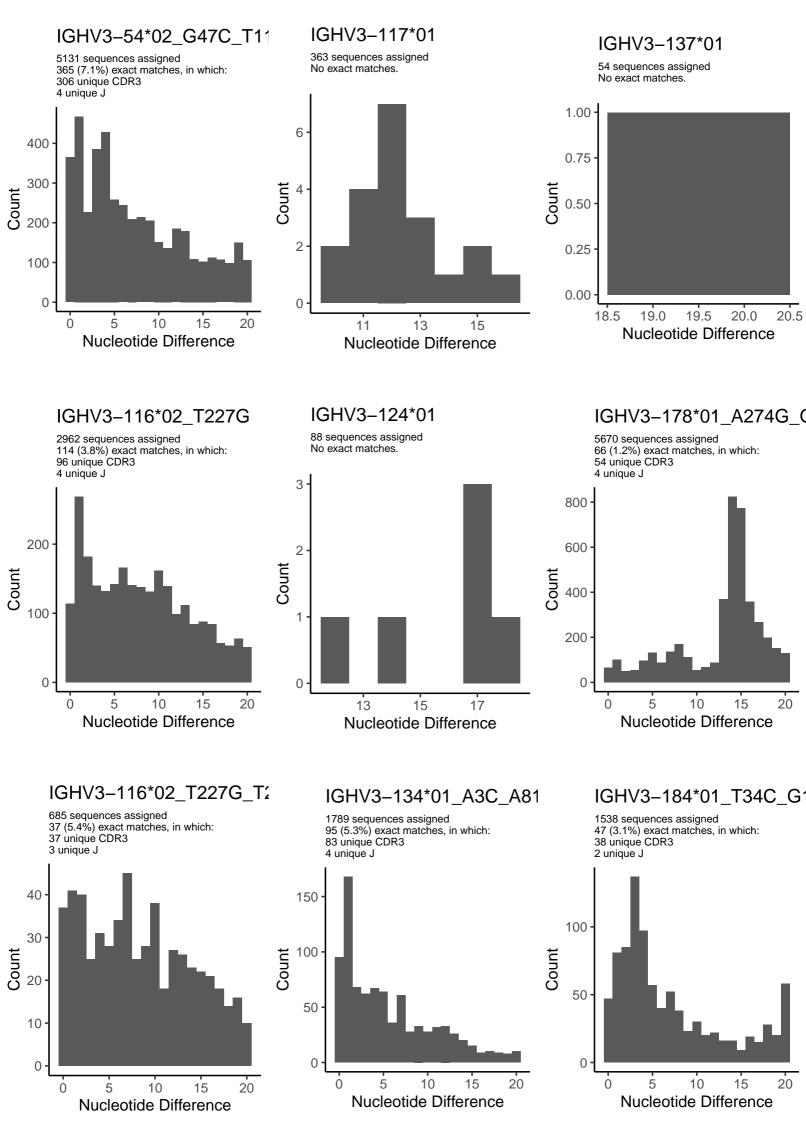


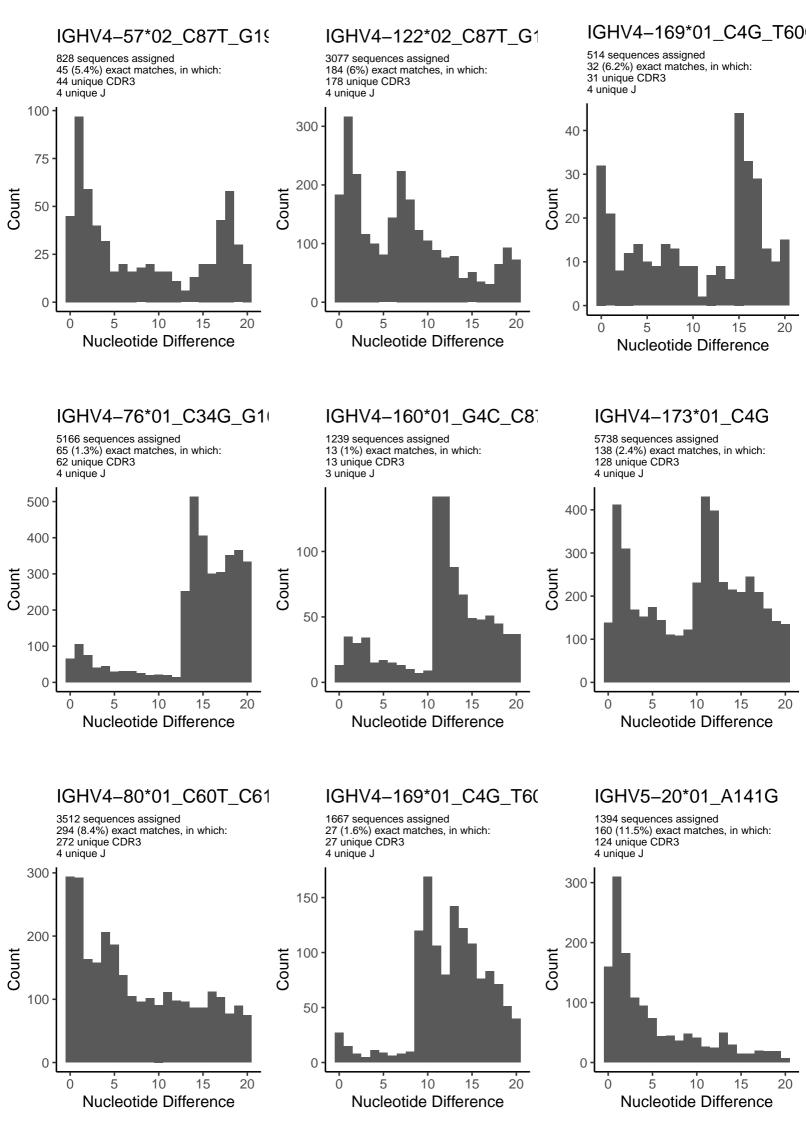


IGHV4-169*01_C4G_T60C_G61C_T163C_A164G_T169G_G172A_T189G_A196T_C259T_A295



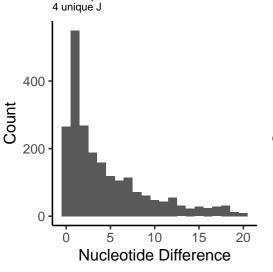






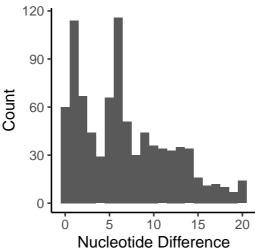
IGHV5-43*01_A106G

2310 sequences assigned 266 (11.5%) exact matches, in which: 201 unique CDR3



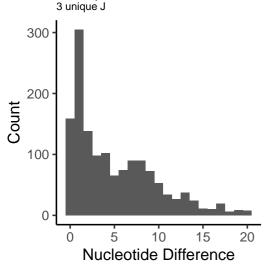
IGHV7-114*01_T81A

908 sequences assigned 60 (6.6%) exact matches, in which: 51 unique CDR3 3 unique J



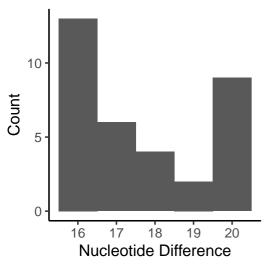
IGHV5-43*01_A106G_C297T

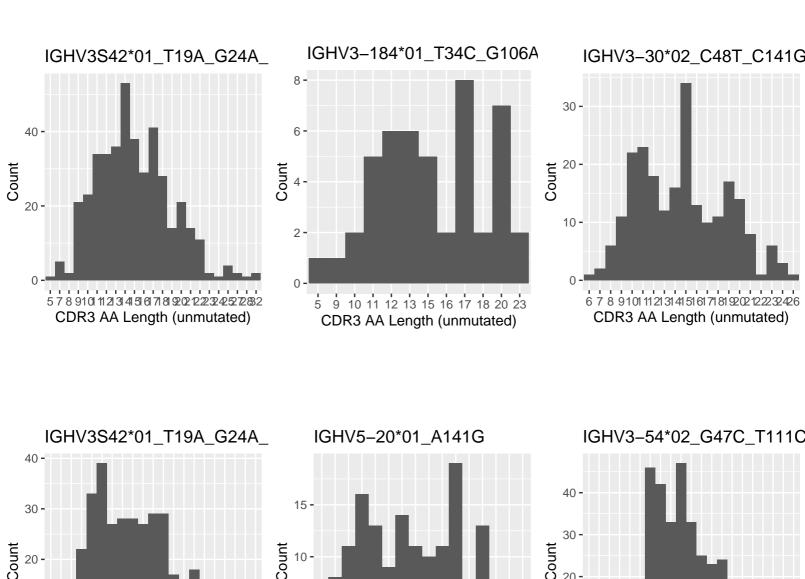
1509 sequences assigned 159 (10.5%) exact matches, in which: 122 unique CDR3

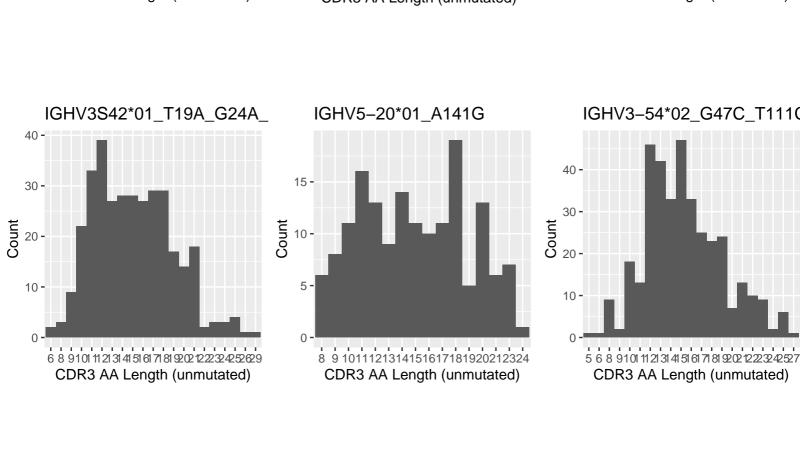


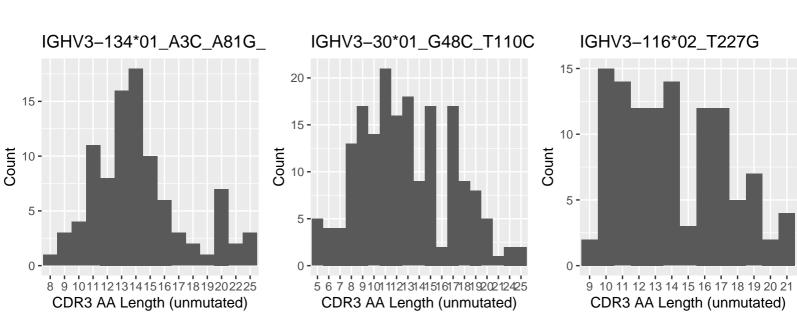
IGHV7-94*01

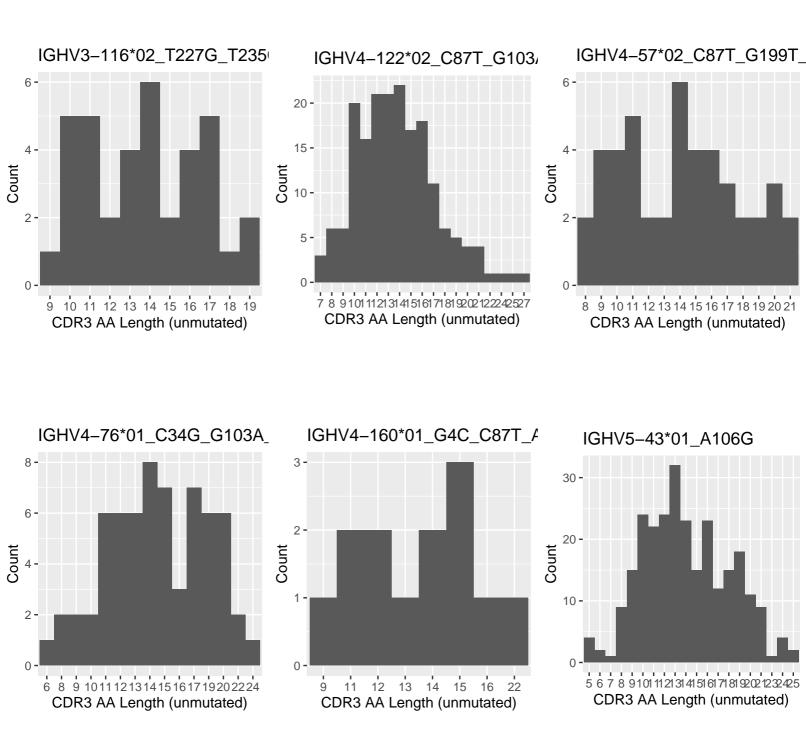
60 sequences assigned No exact matches.

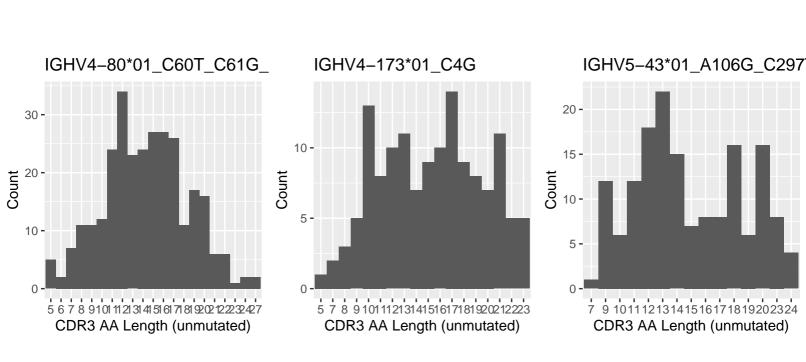


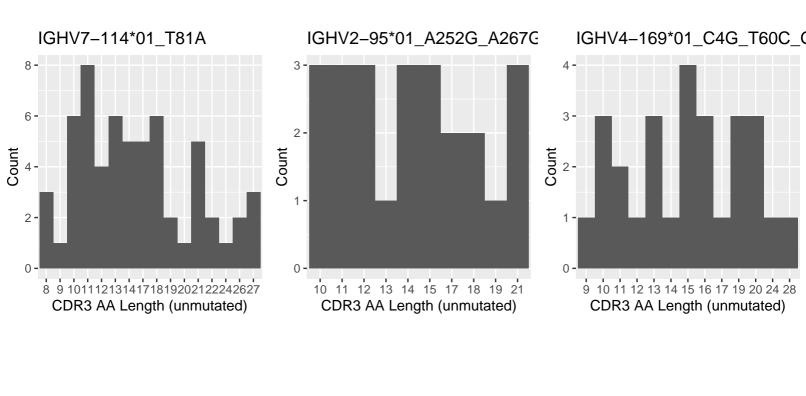


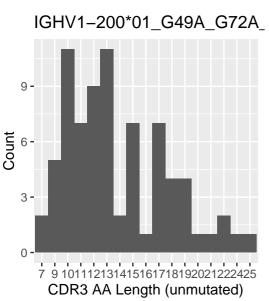


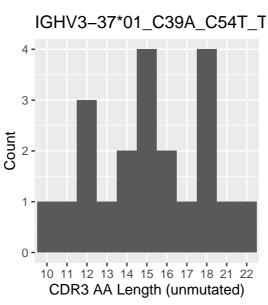


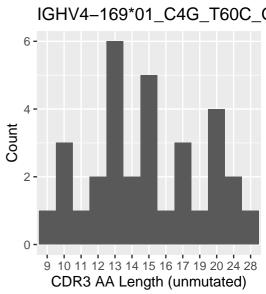


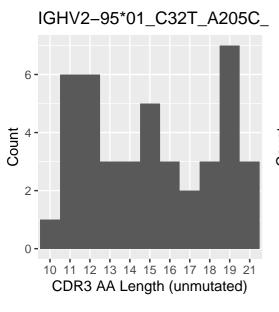


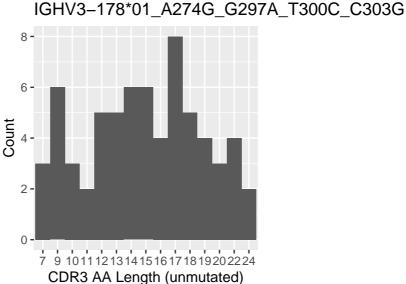














Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.