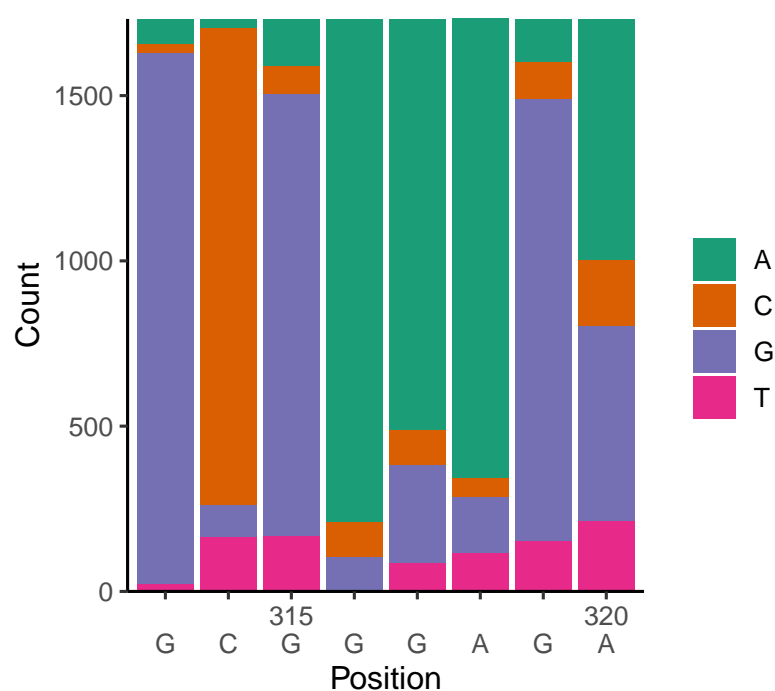
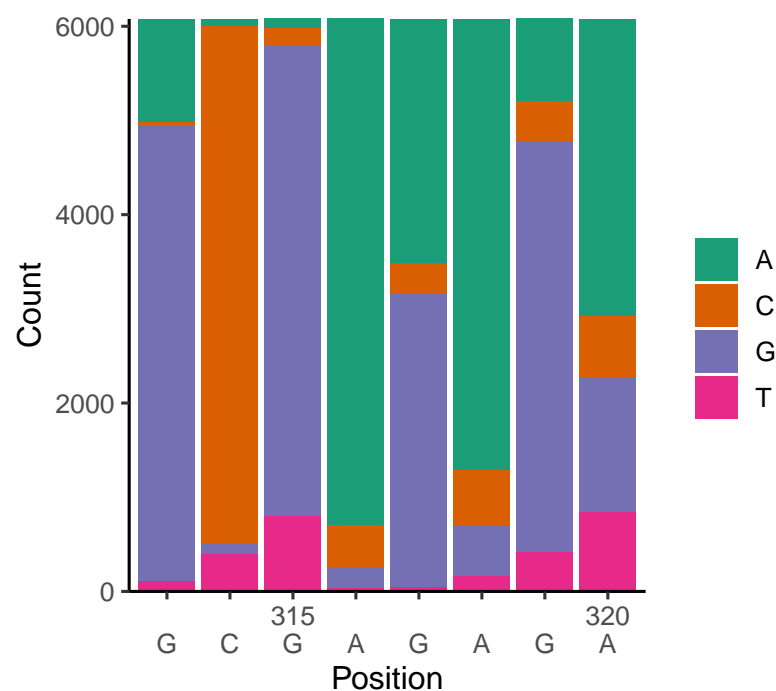


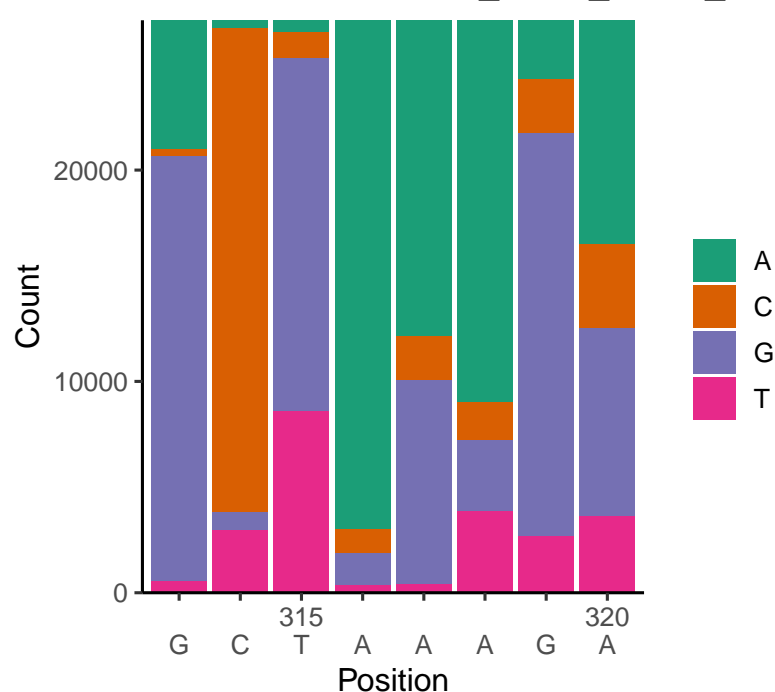
Gene IGHV3-28*02_C118T_C176G_A18



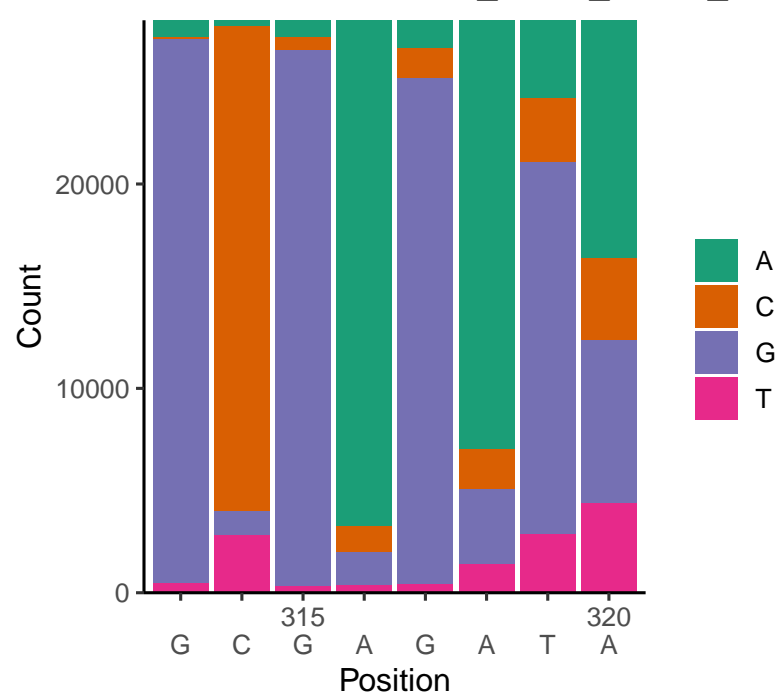
Gene IGHV3-59*01_C118T_T136C_C16



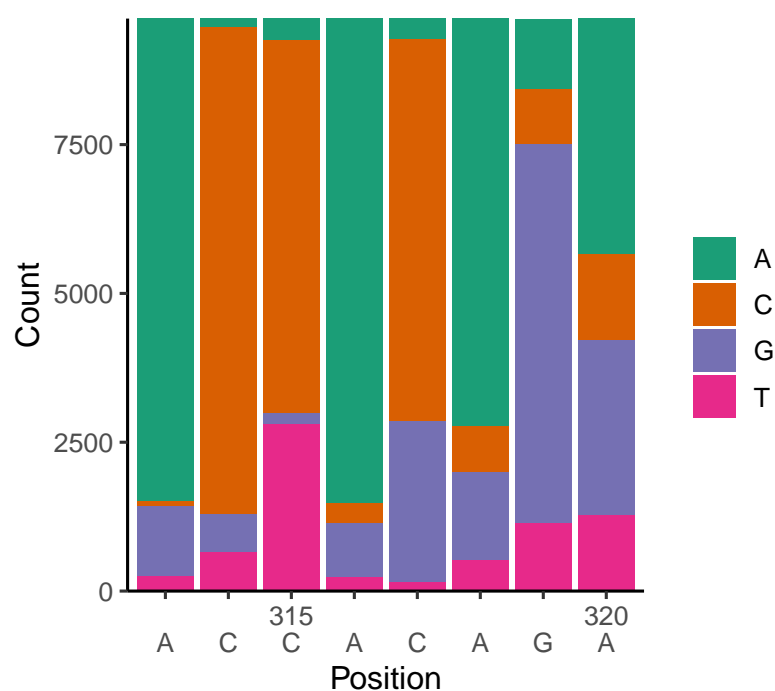
Gene IGHV3S42*01_T19A_G24A_C27A



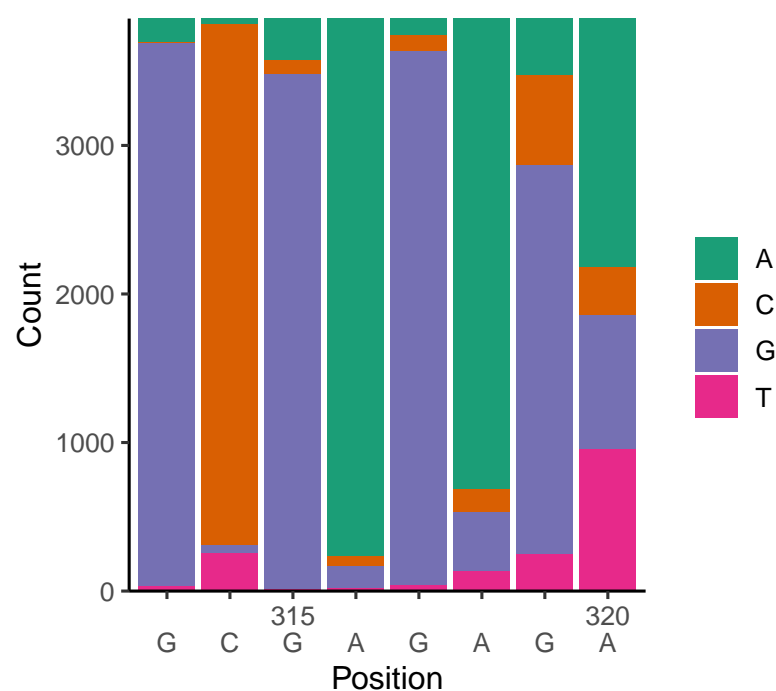
Gene IGHV4-80*01_C60T_C61G_G70A



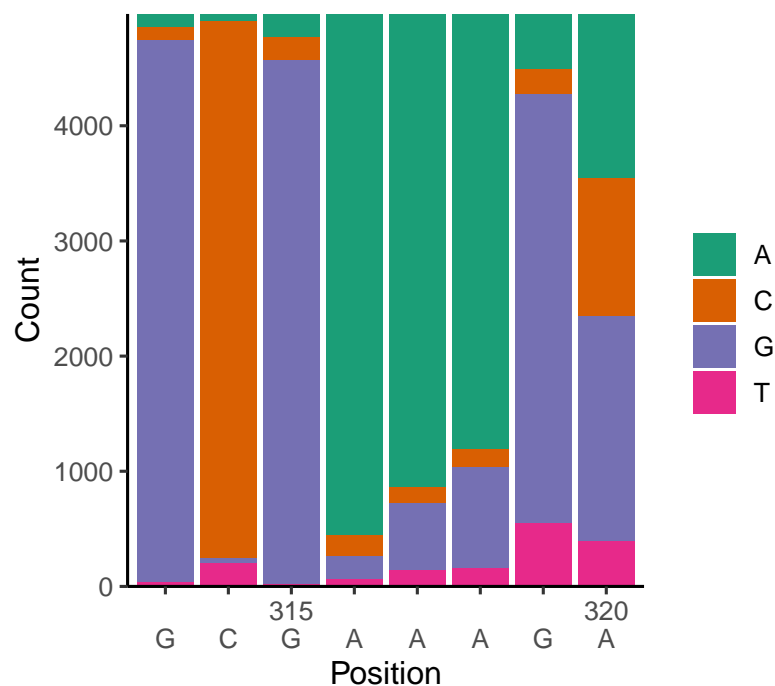
Gene IGHV3-30*02_C141G



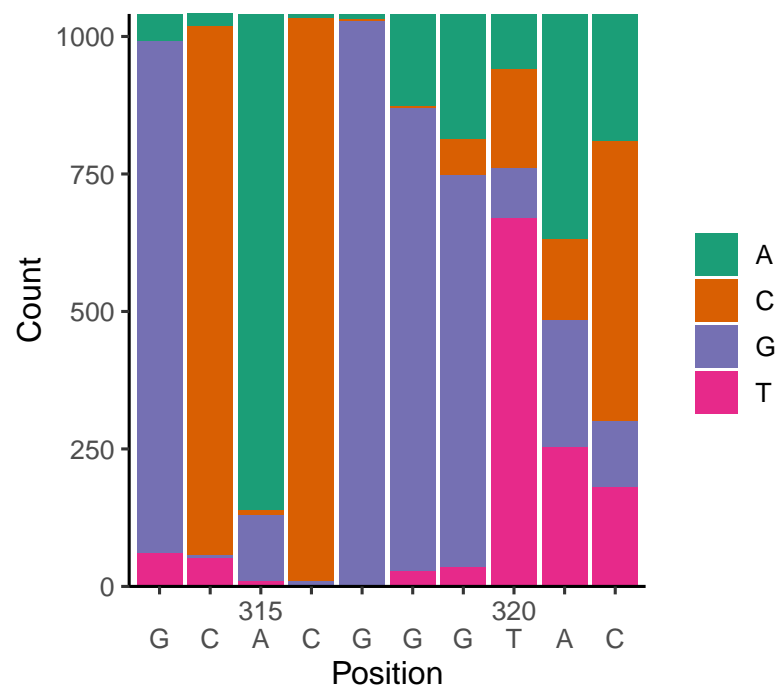
Gene IGHV4-127*01_T82G_A83G_G14



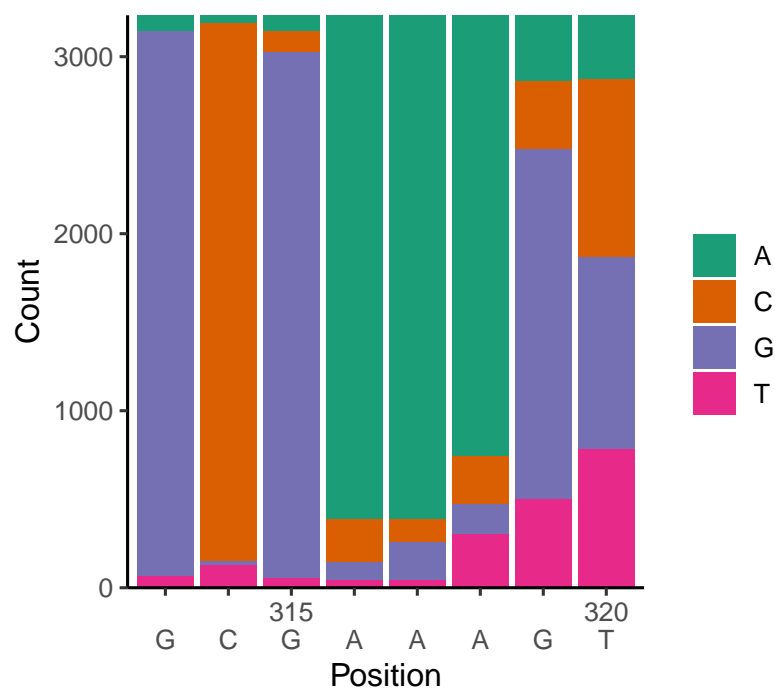
Gene IGHV5-20*02_A141G



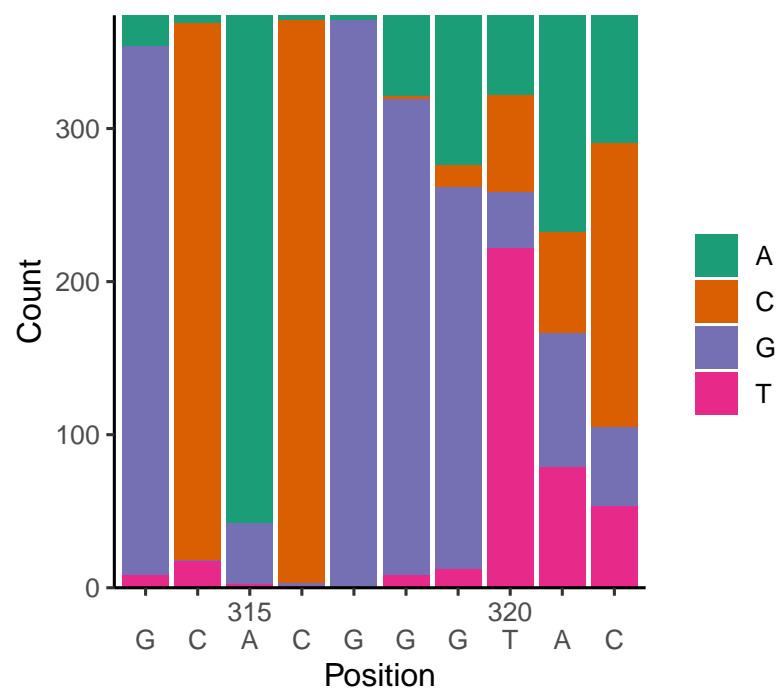
Gene IGHV2-95*01_A252G_A267G



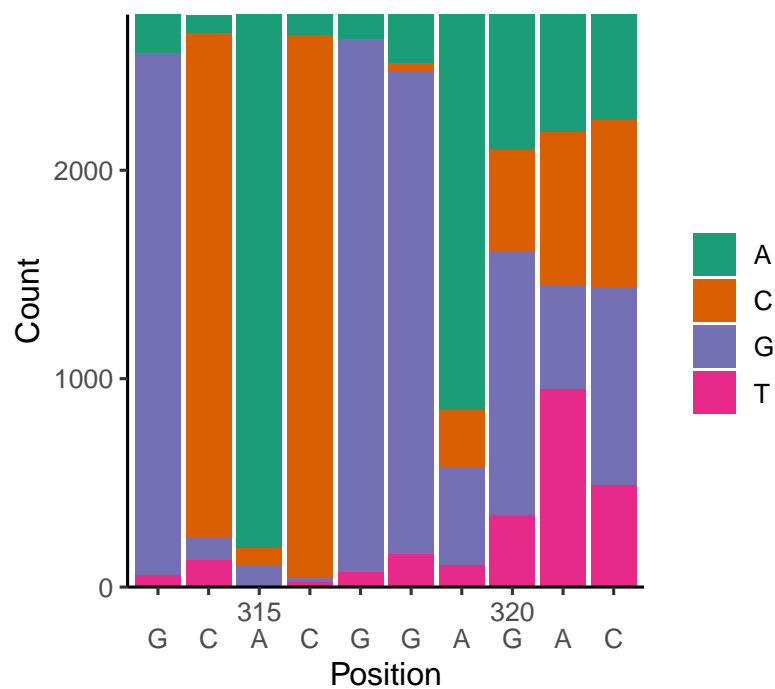
Gene IGHV5-43*01_A106G_C297T



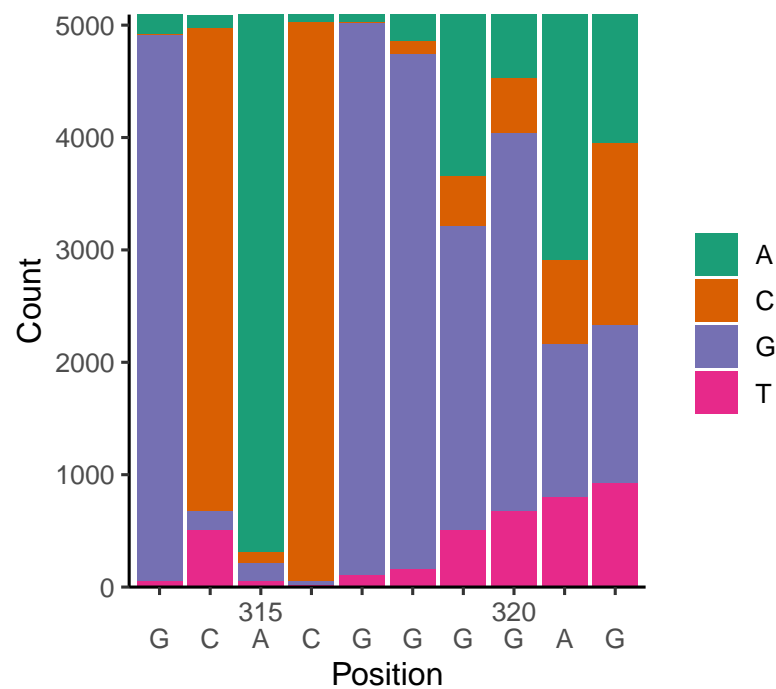
Gene IGHV2-95*01_A252G_A267G_G28



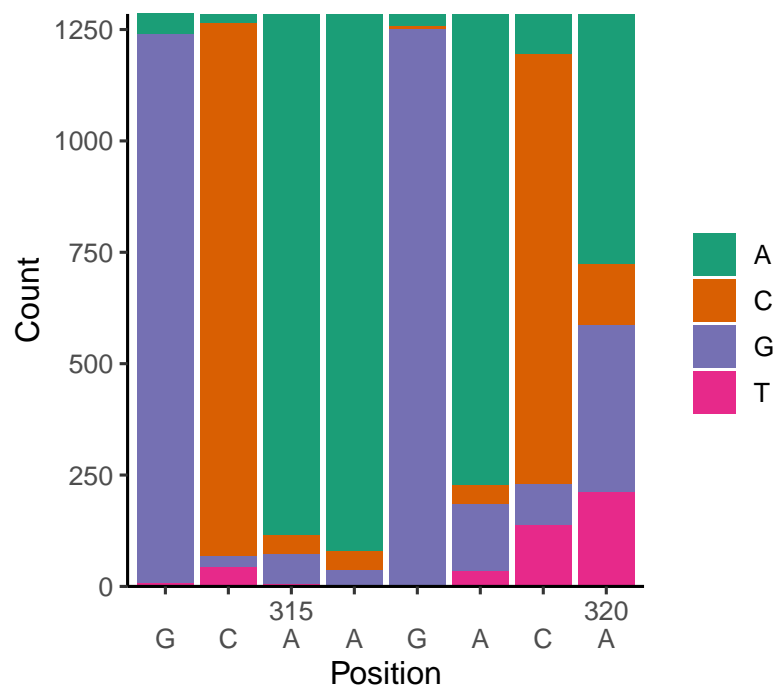
Gene IGHV2-10*01_C6G_A23G_G112C



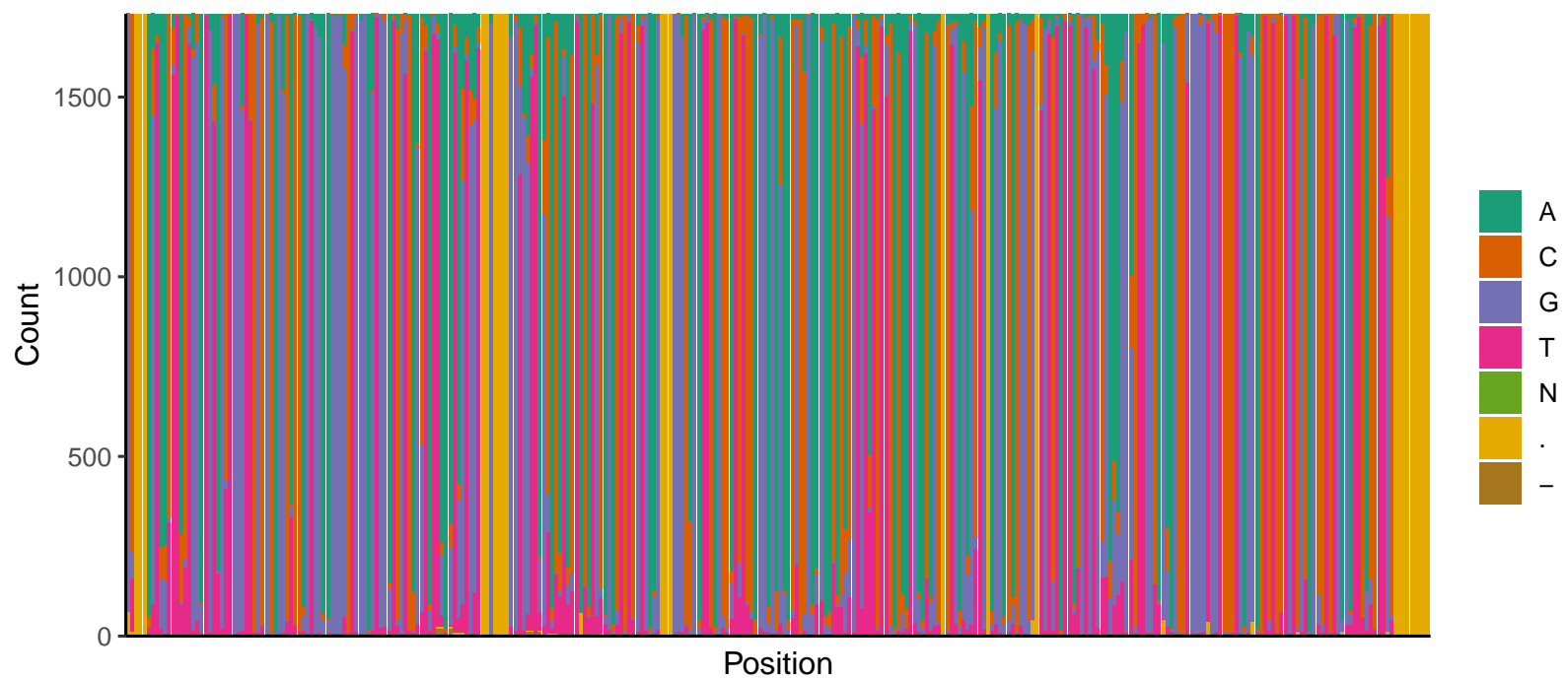
Gene IGHV2-152*01_G261T_T264C_A2



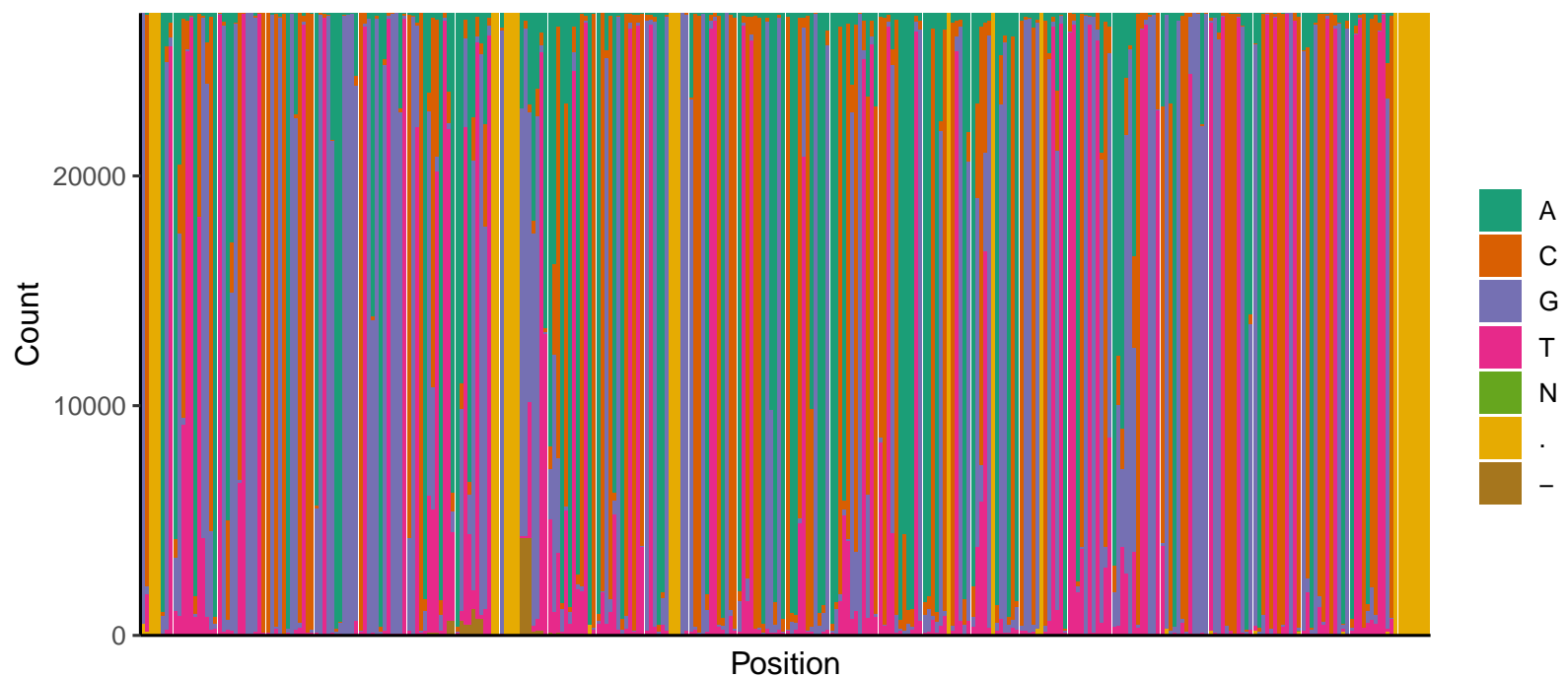
Gene IGHV7-114*01_T81A



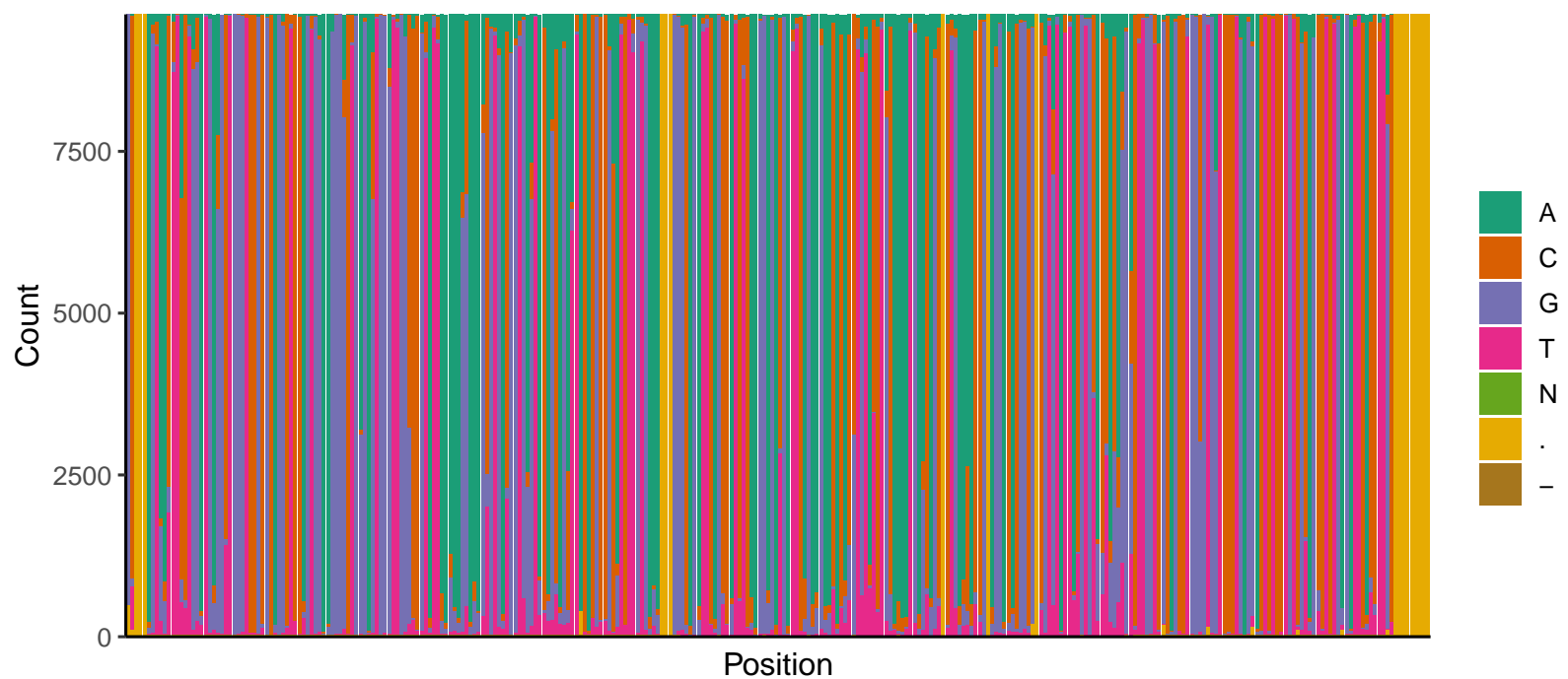
Gene IGHV3-28*02_C118T_C176G_A187G_G274A_G277A



Gene IGHV3S42*01_T19A_G24A_C27A_C38T_A39C_A40C_G59A_C111T_T112G_G1



Gene IGHV3-30*02_C141G



Gene IGHV3-59*01_C118T_T136C_C163G_A172T_G175A_G176C_G197A_G198C_C2



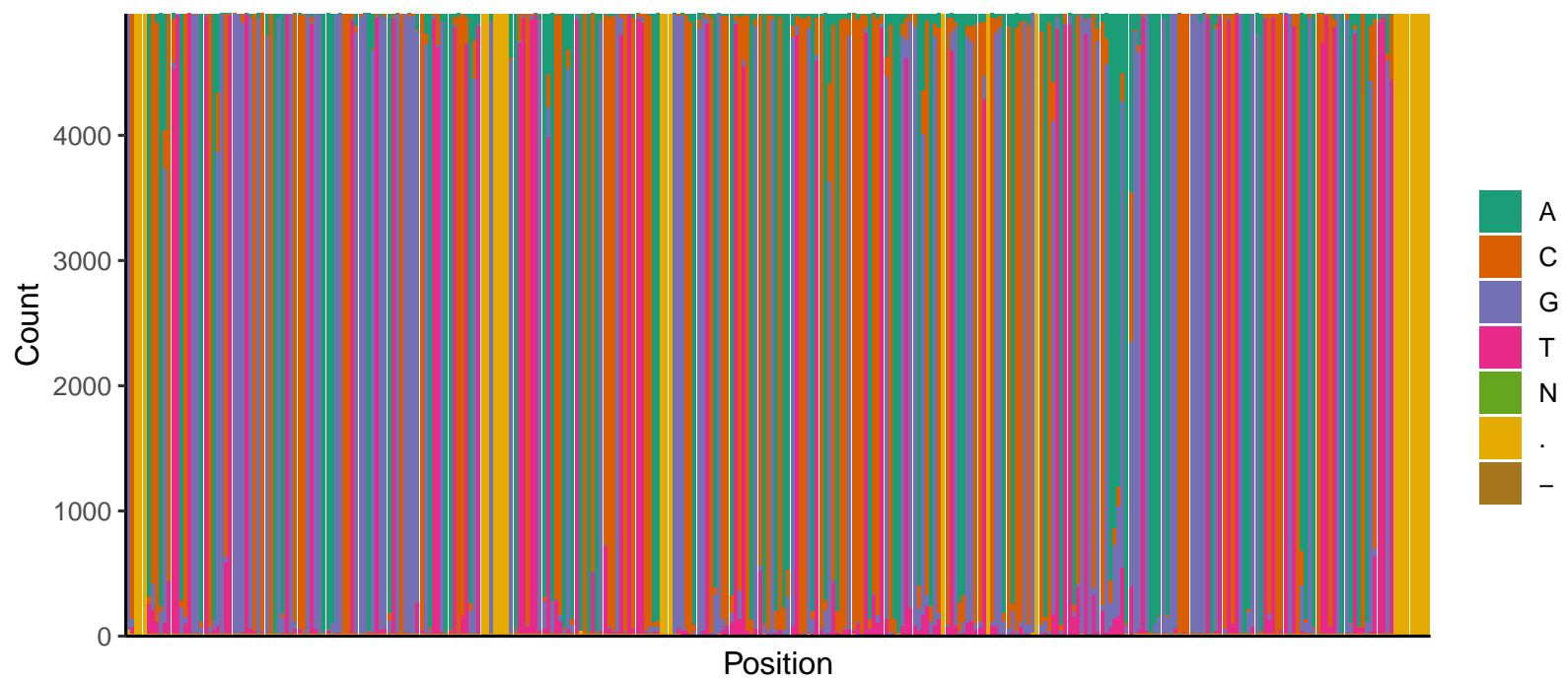
Gene IGHV4-80*01_C60T_C61G_G70A_T189G_T196A



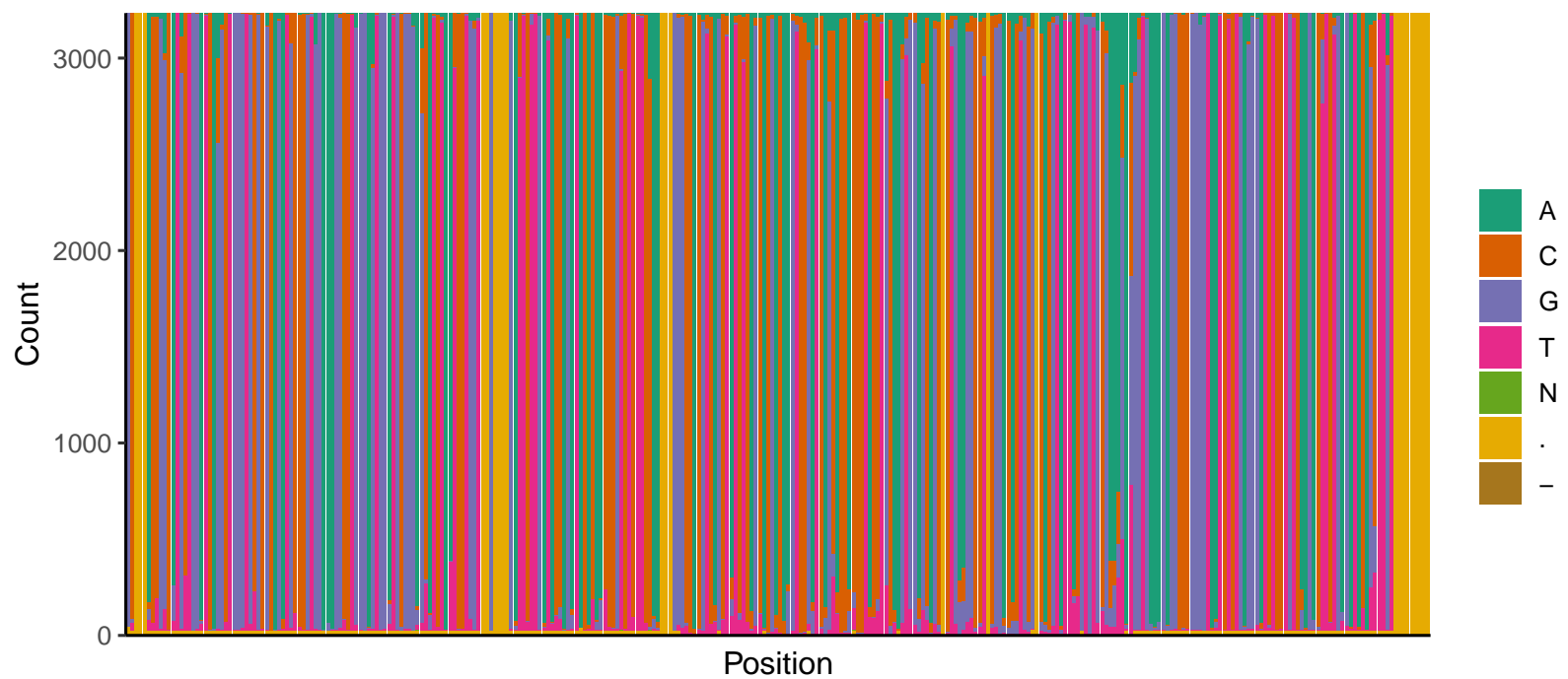
Gene IGHV4-127*01_T82G_A83G_G141A_T163A_A164G_G172T_G173A_T189G_C19



Gene IGHV5-20*02_A141G



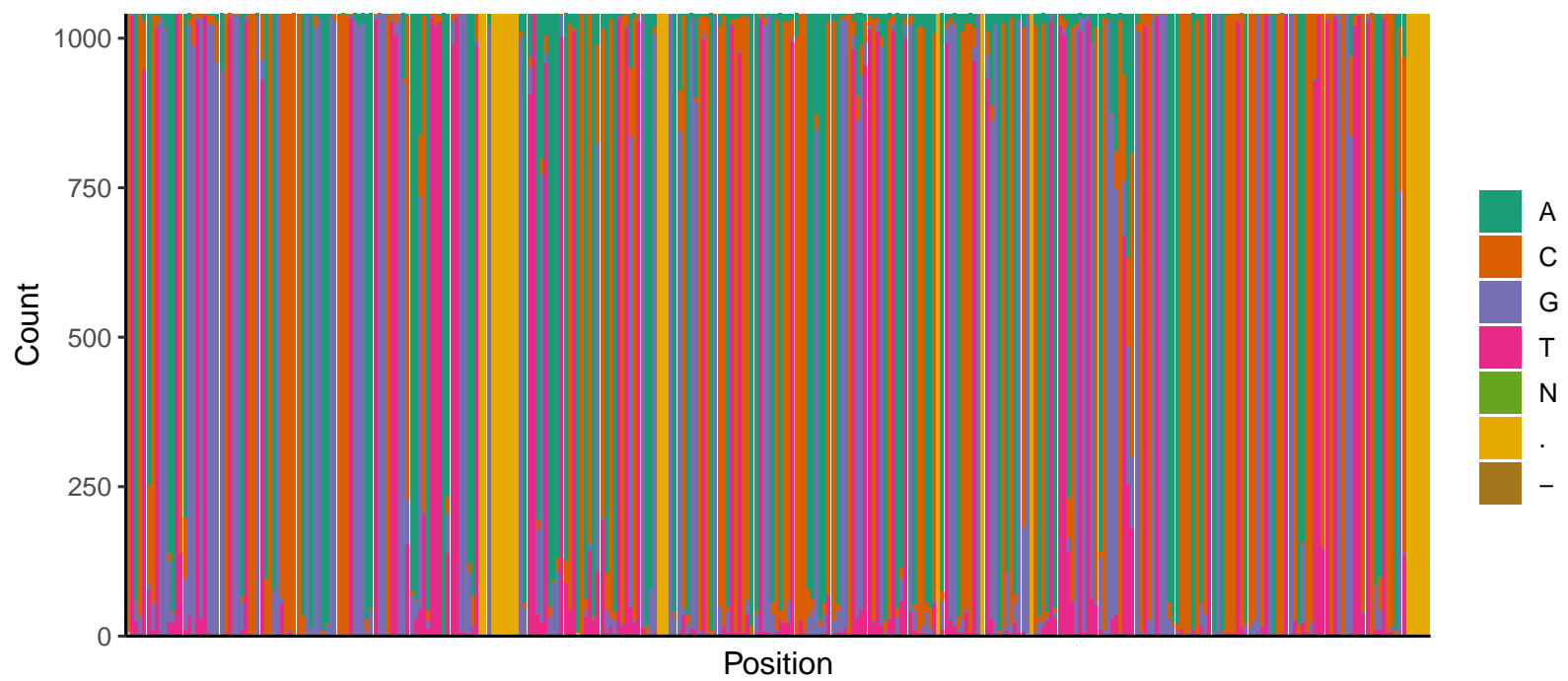
Gene IGHV5-43*01_A106G_C297T



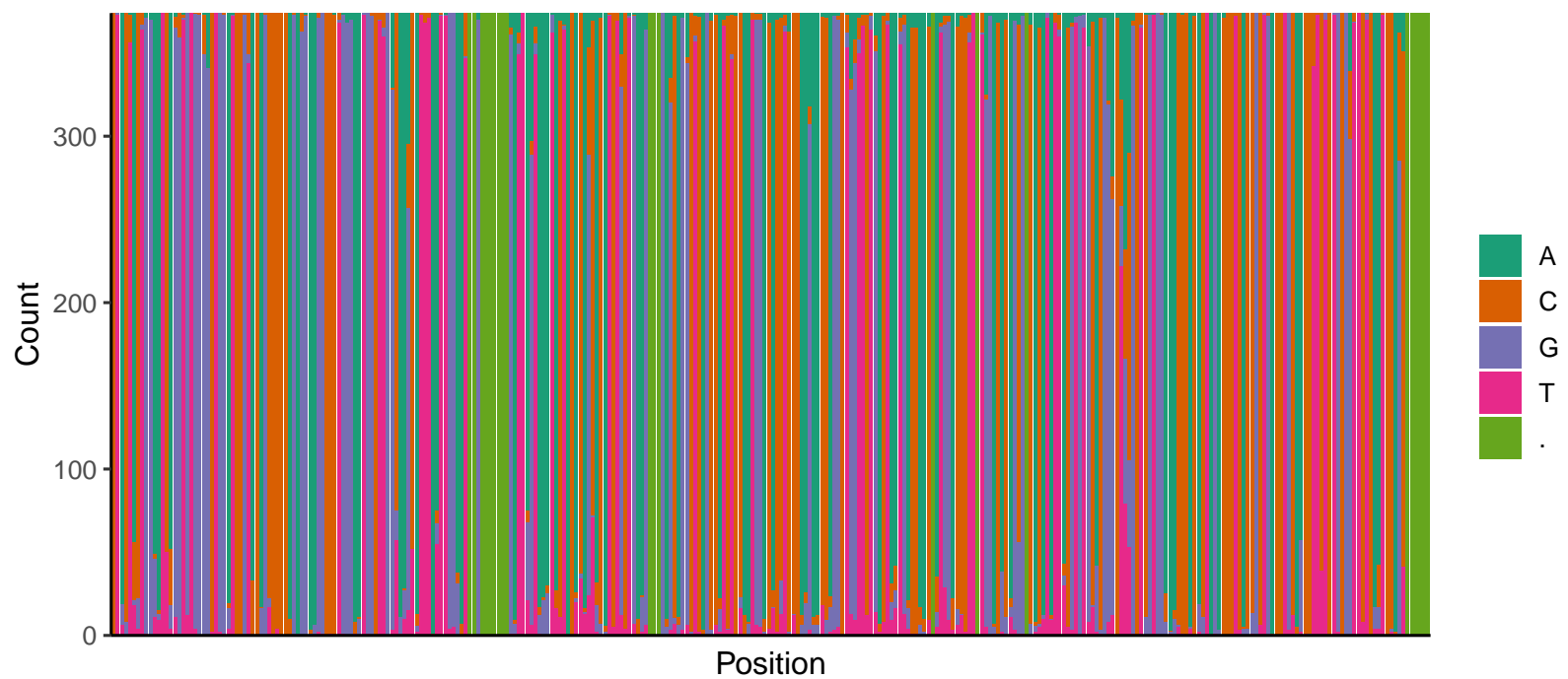
Gene IGHV2-10*01_C6G_A23G_G112C_G118A_A119G_G121T_G141A_C205A_G210T



Gene IGHV2-95*01_A252G_A267G



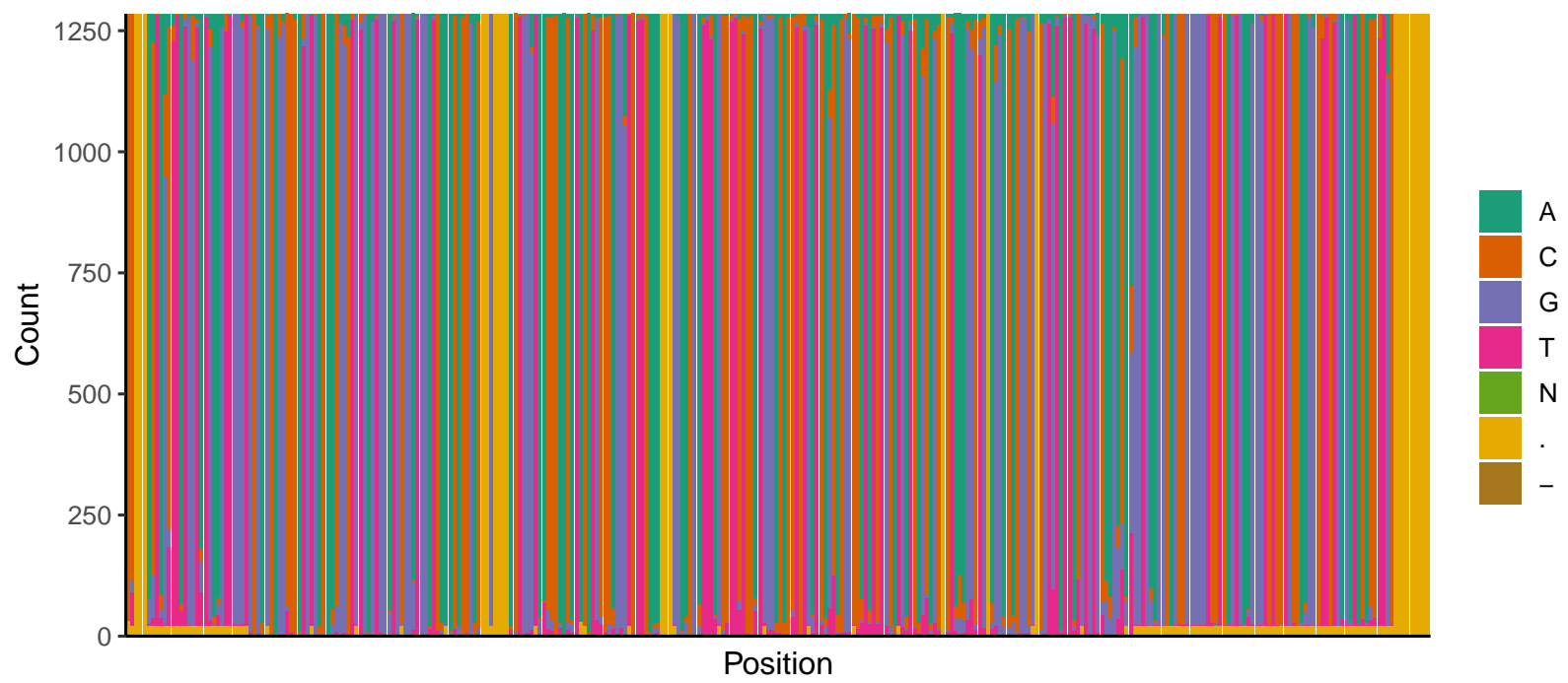
Gene IGHV2-95*01_A252G_A267G_G289T



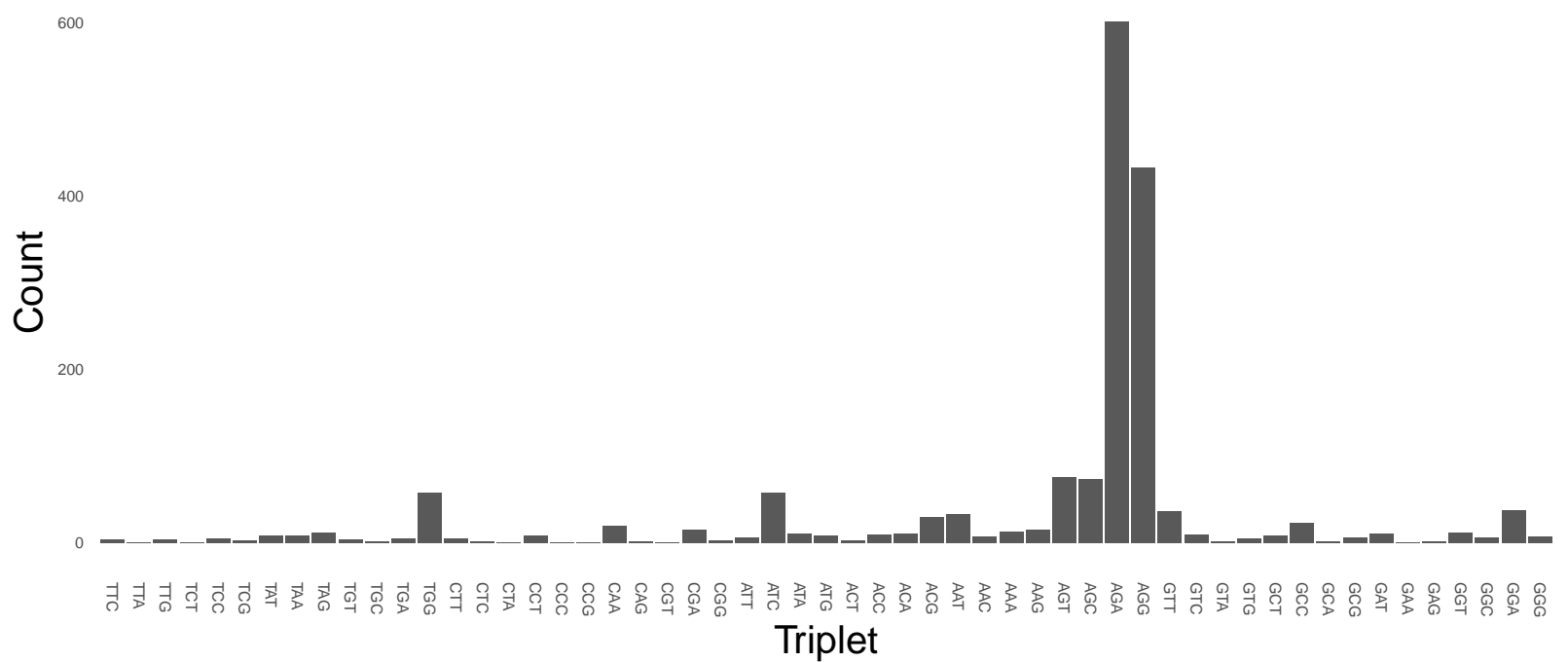
Gene IGHV2-152*01_G261T_T264C_A267T_A289T



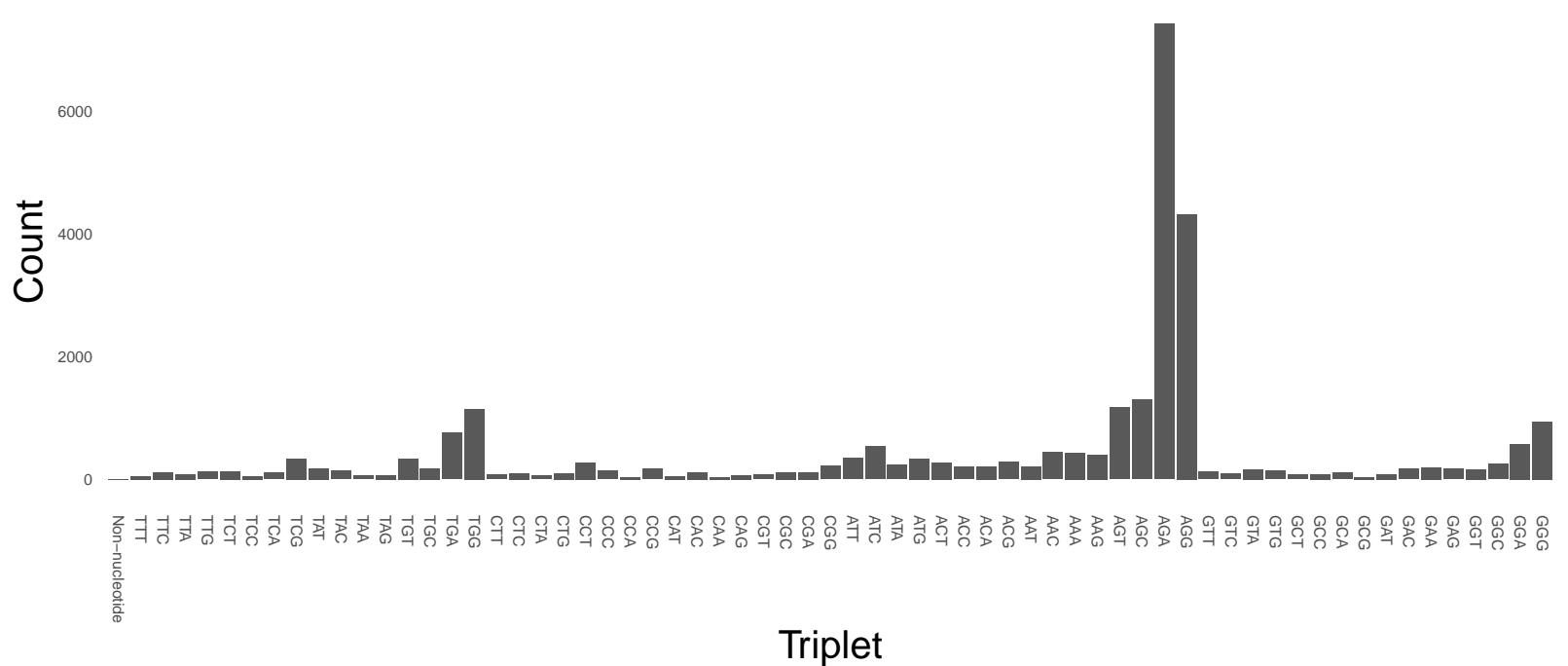
Gene IGHV7-114*01_T81A



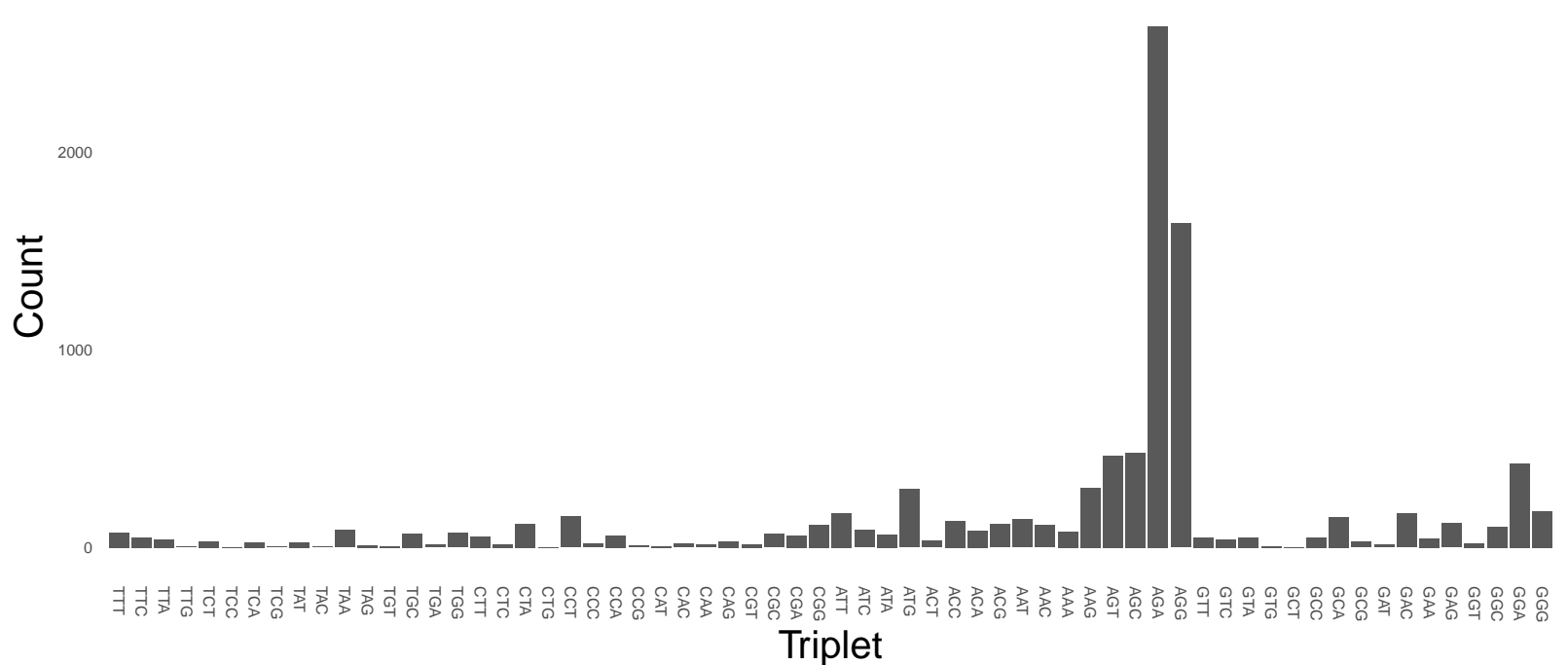
IGHV3-28*02_C118T_C176G_A187G_G274A_G277A- Final 3 nucleotides as a triplet



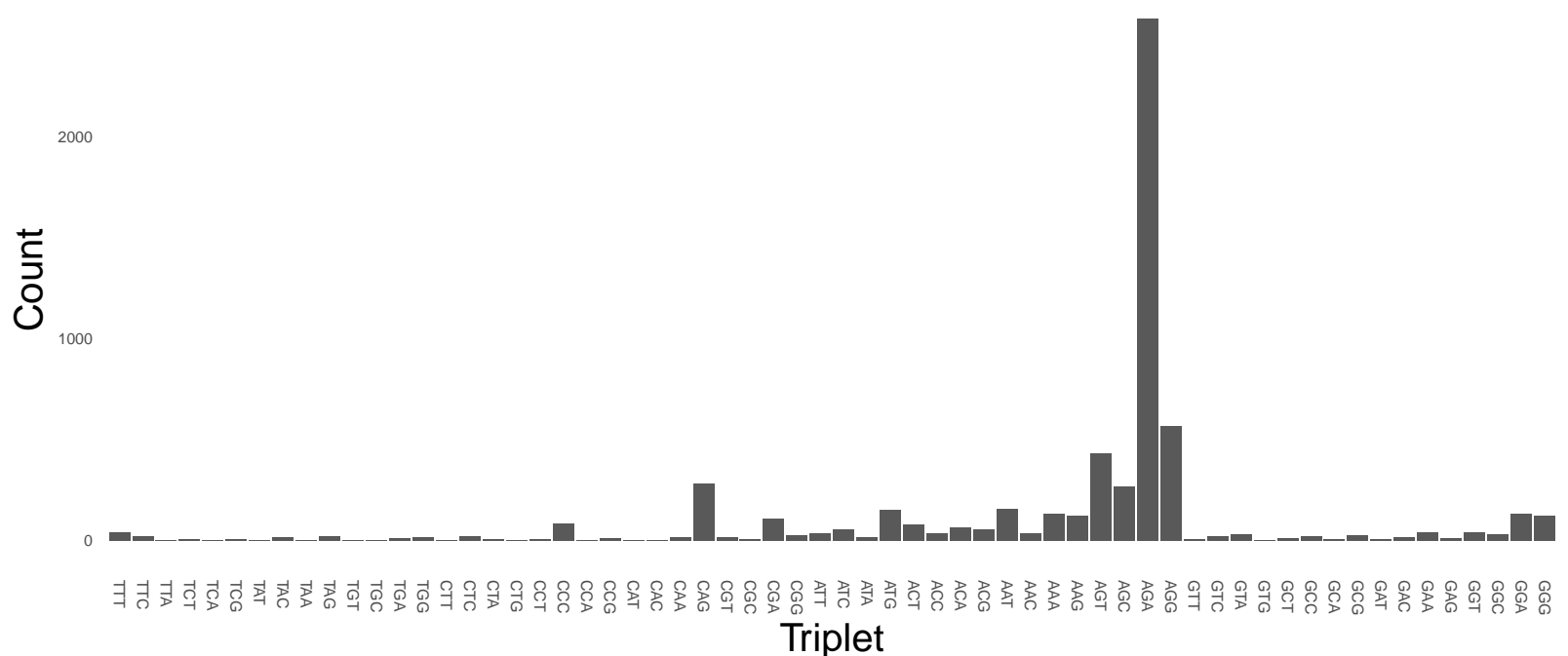
IGHV3S42*01_T19A_G24A_C27A_C38T_A39C_A40C_G59A_C111T_T112G_G114C_A119G_T



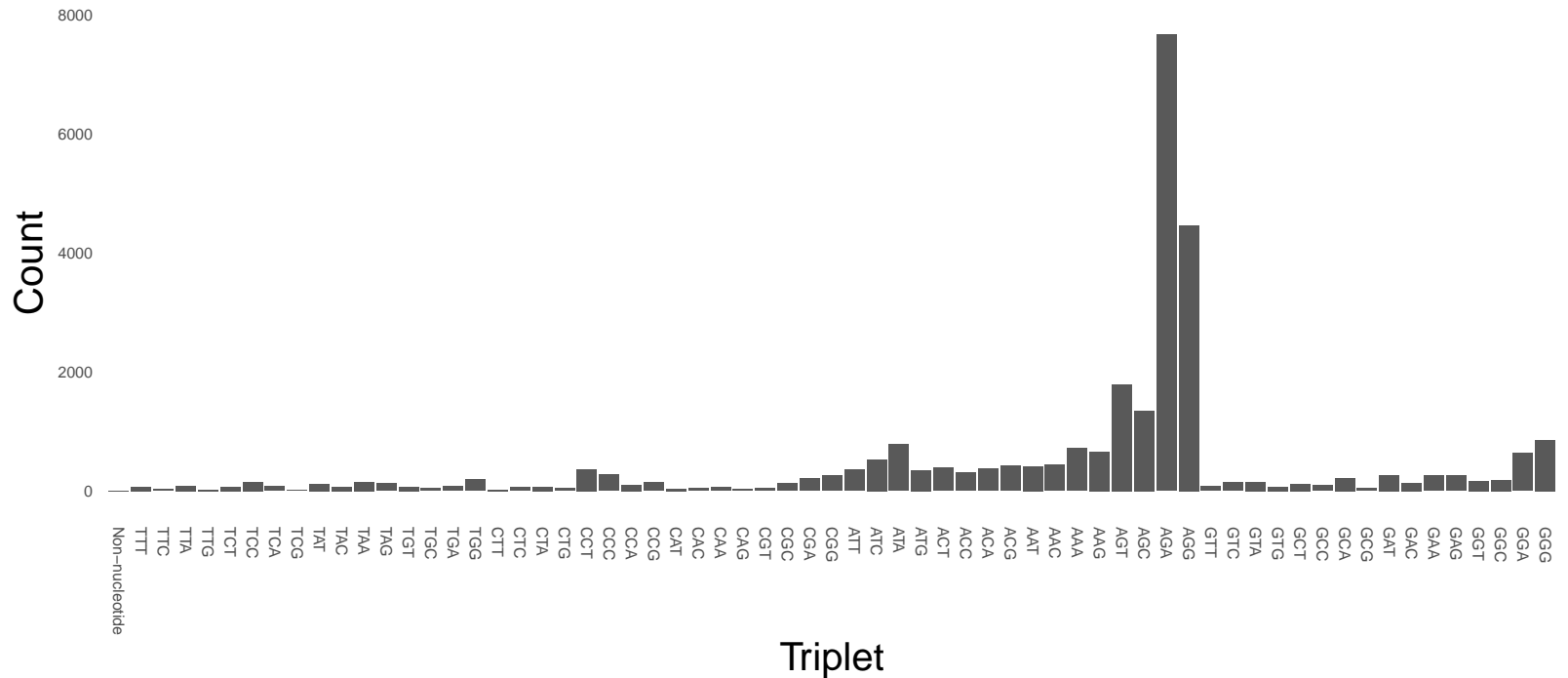
IGHV3-30*02_C141G- Final 3 nucleotides as a triplet



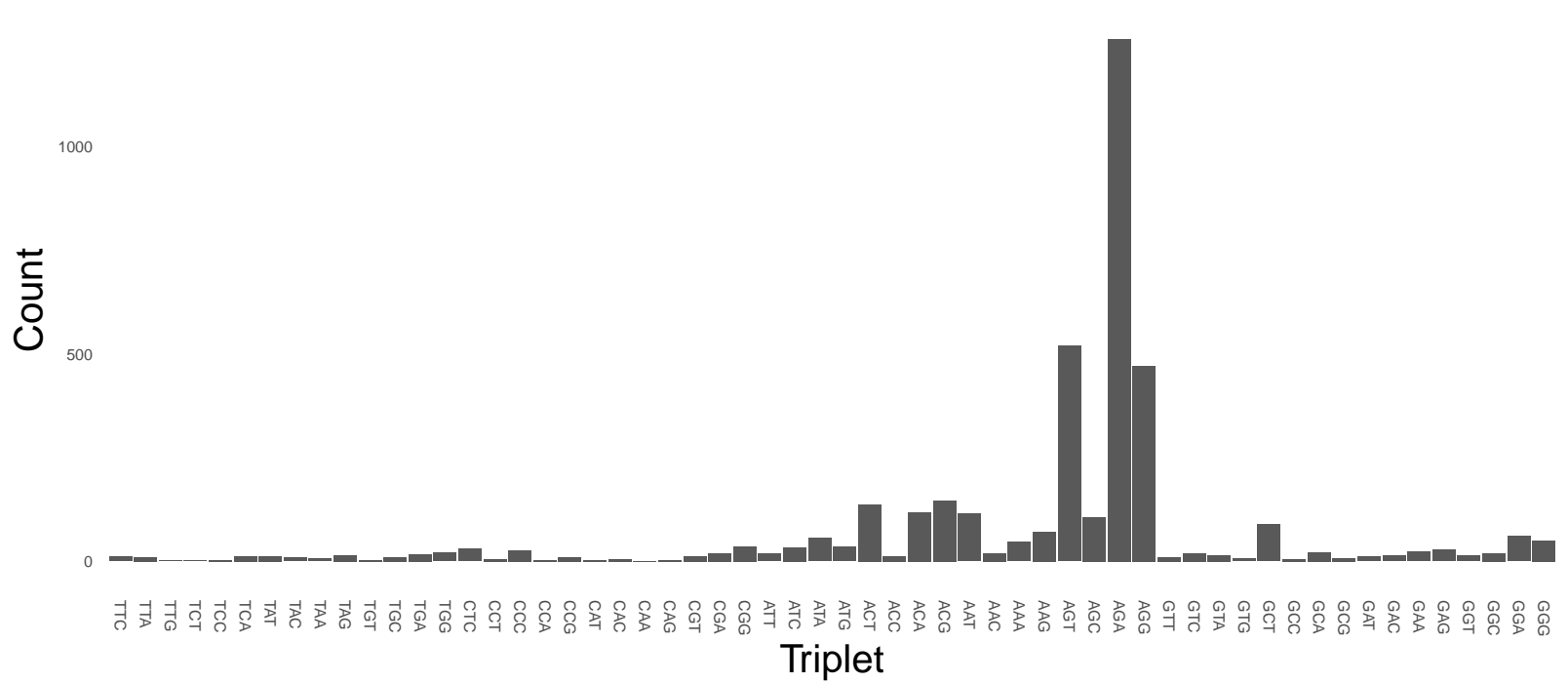
IGHV3-59*01_C118T_T136C_C163G_A172T_G175A_G176C_G197A_G198C_C201T- Final 3 r



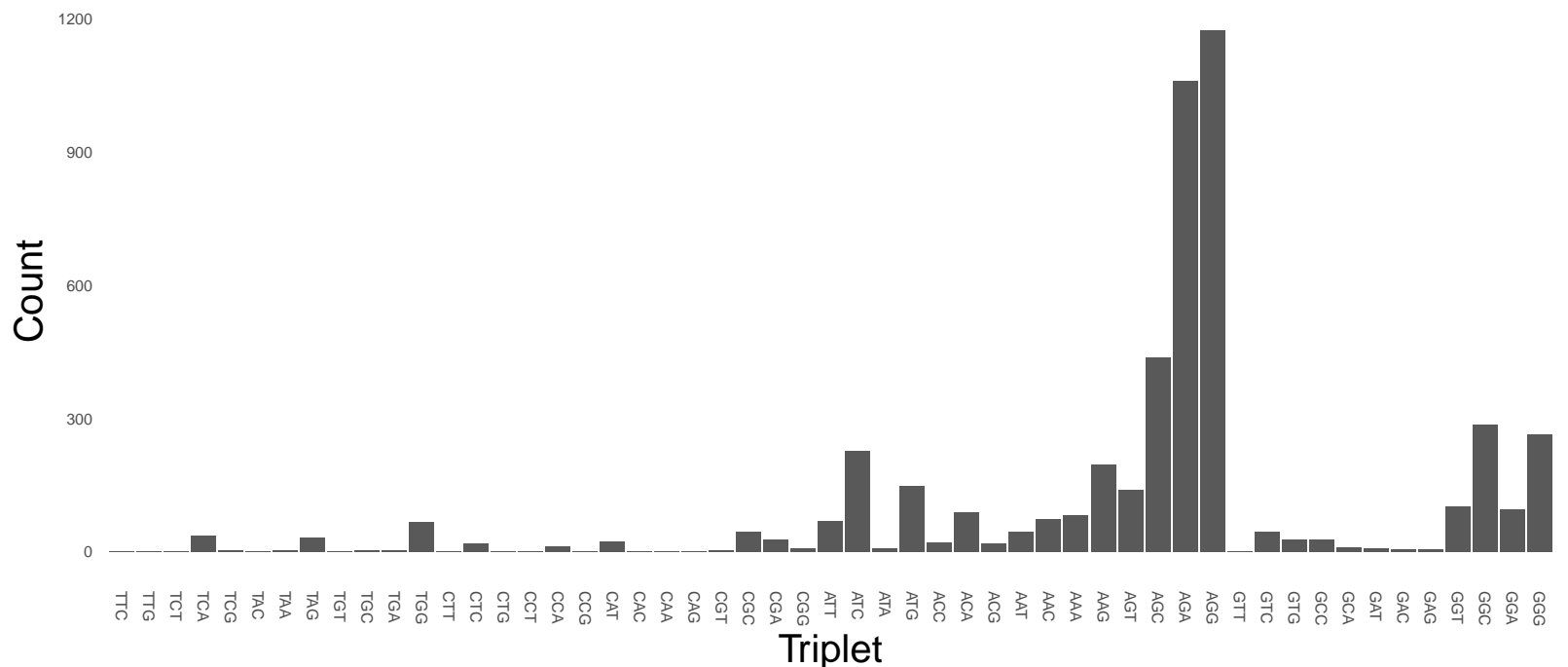
IGHV4-80*01_C60T_C61G_G70A_T189G_T196A- Final 3 nucleotides as a triplet



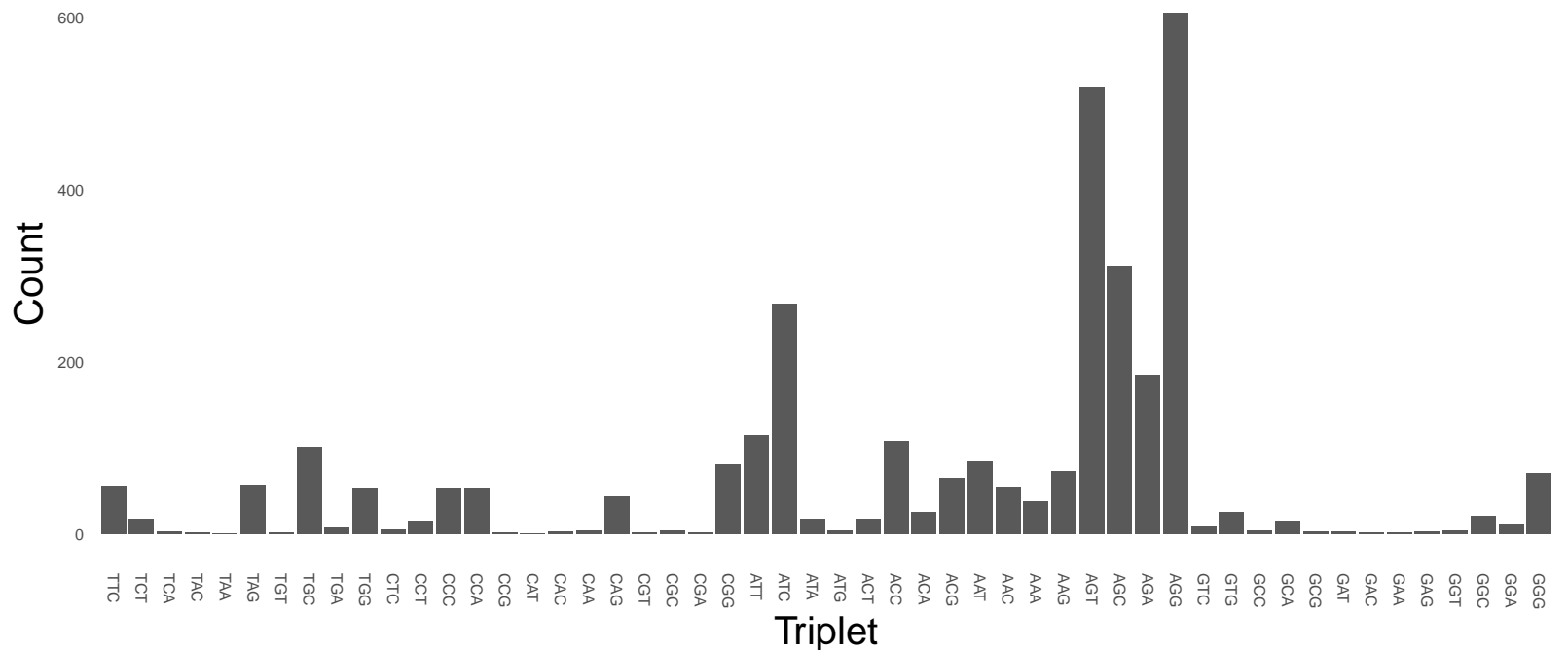
IGHV4-127*01_T82G_A83G_G141A_T163A_A164G_G172T_G173A_T189G_C194A_A196T_T1



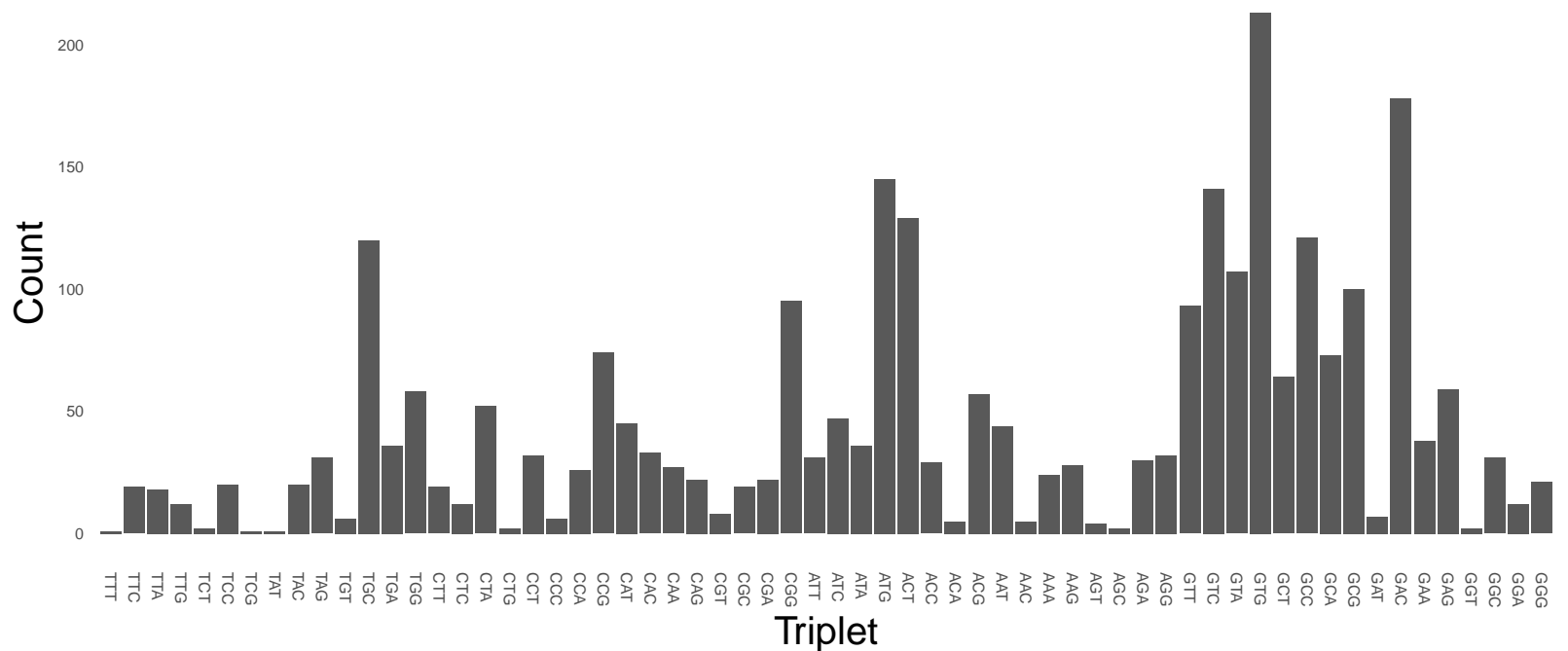
IGHV5-20*02_A141G- Final 3 nucleotides as a triplet



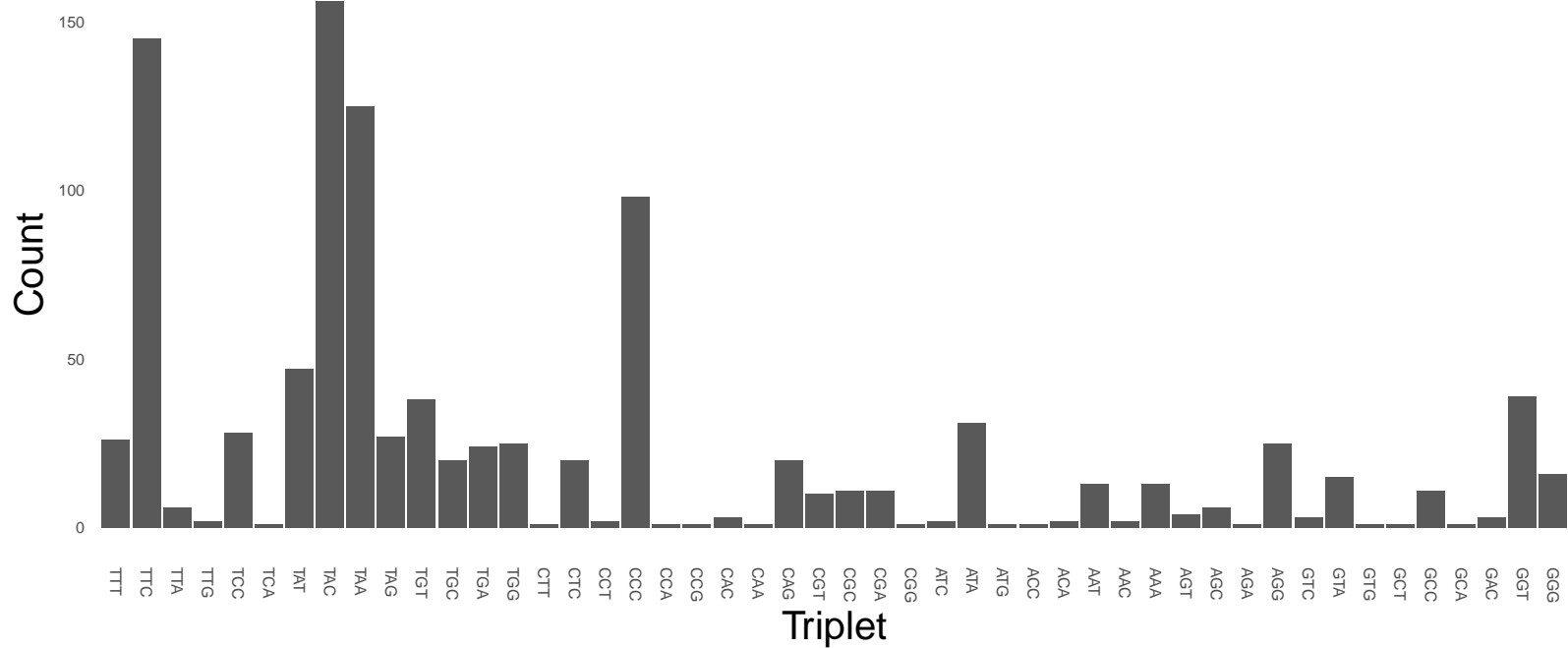
IGHV5-43*01_A106G_C297T- Final 3 nucleotides as a triplet



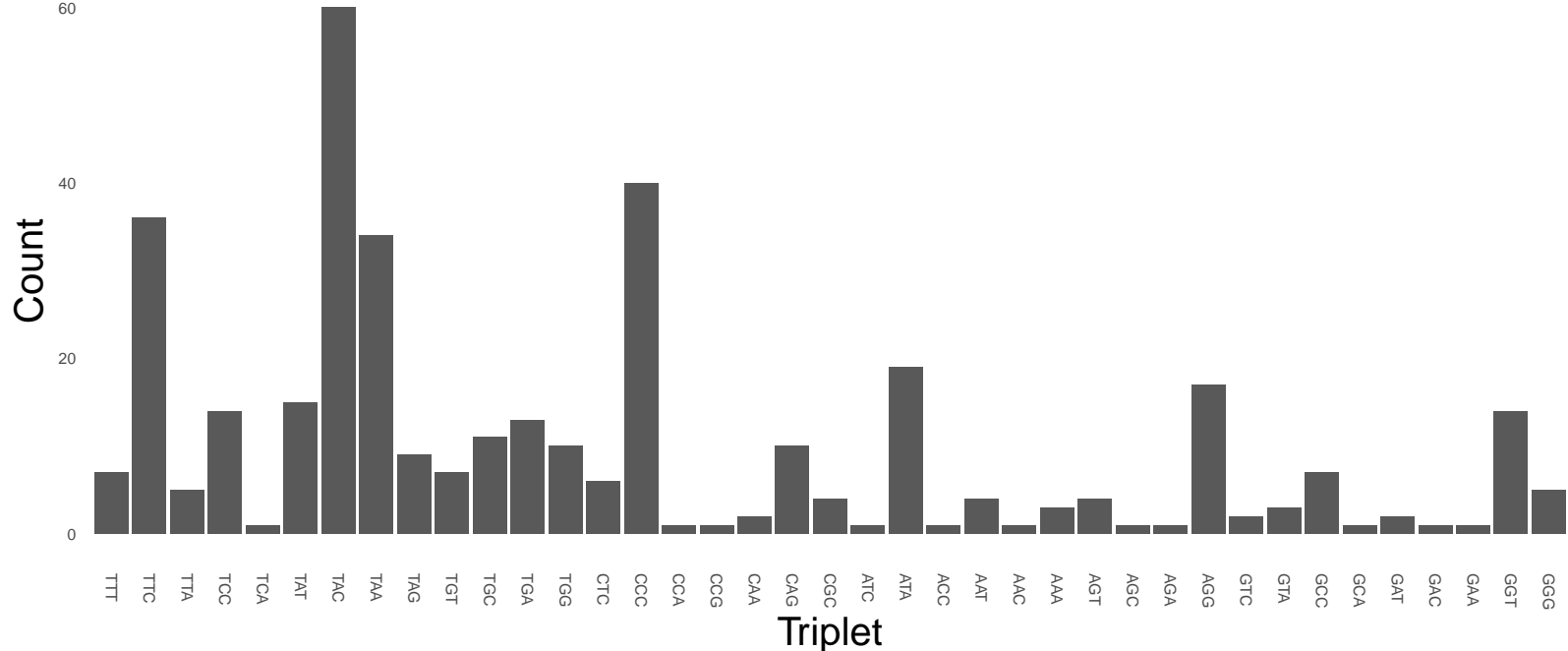
IGHV2-10*01_C6G_A23G_G112C_G118A_A119G_G121T_G141A_C205A_G210T- Final 3 nucleotides as a triplet



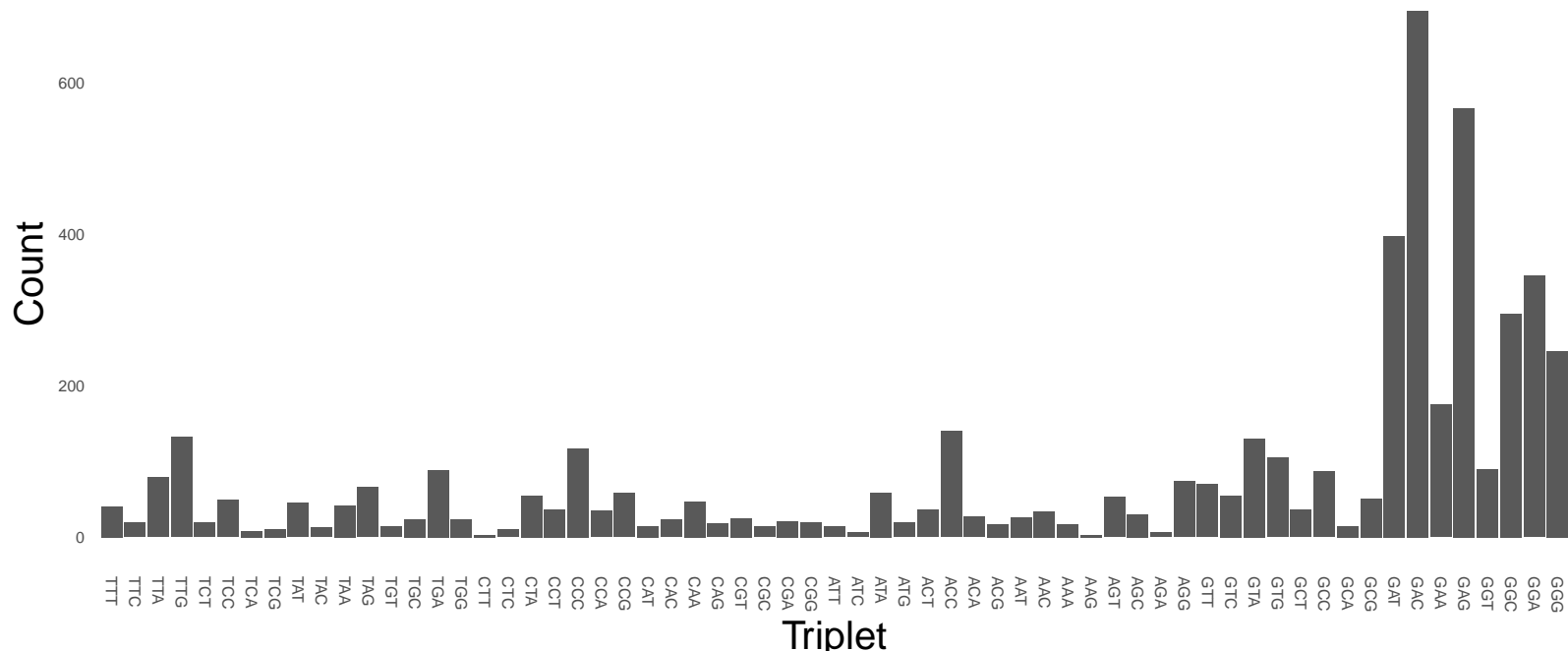
IGHV2-95*01_A252G_A267G- Final 3 nucleotides as a triplet



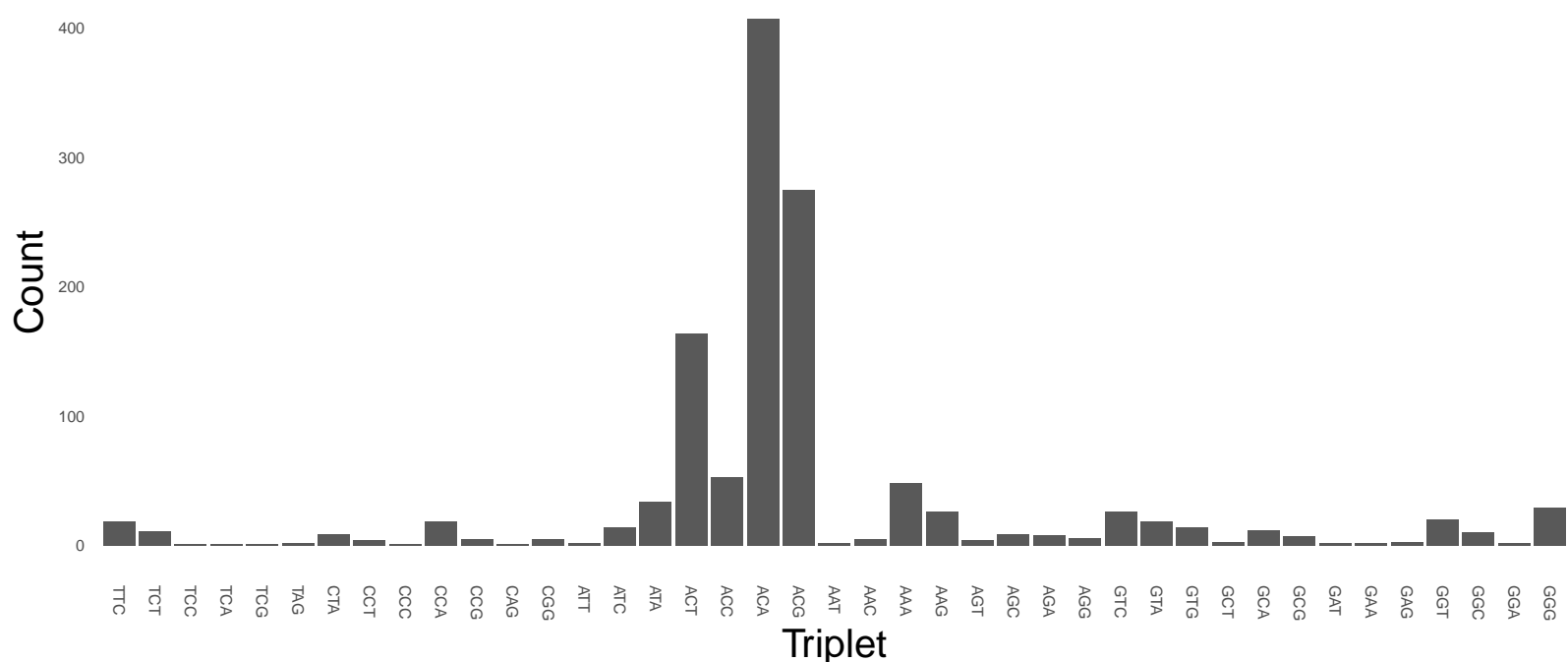
IGHV2-95*01_A252G_A267G_G289T- Final 3 nucleotides as a triplet



IGHV2-152*01_G261T_T264C_A267T_A289T- Final 3 nucleotides as a triplet

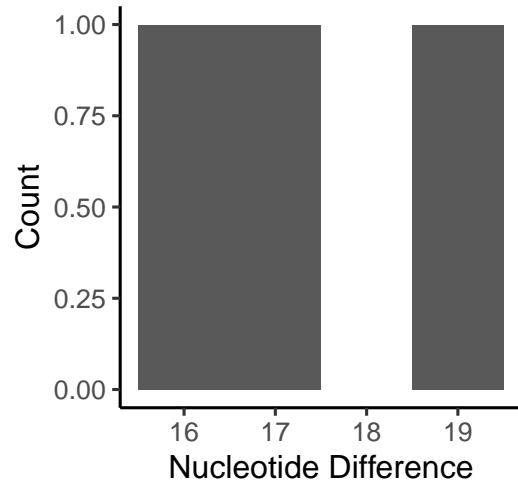


IGHV7-114*01_T81A- Final 3 nucleotides as a triplet



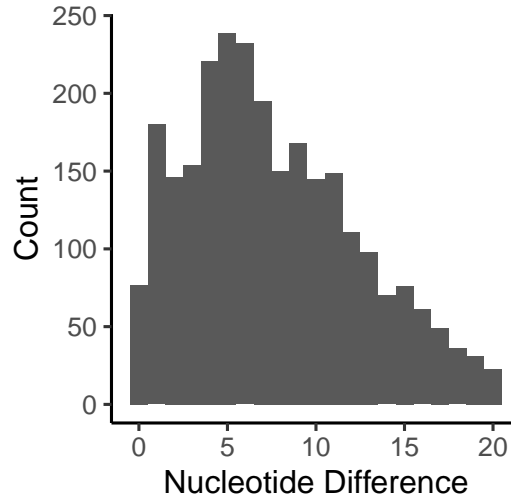
IGHV3S3*01

830 sequences assigned
No exact matches.



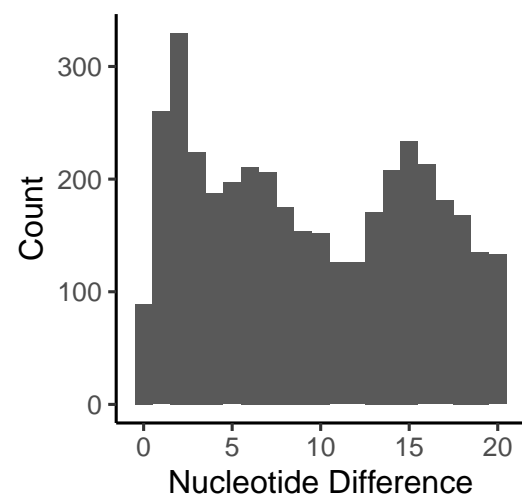
IGHV2-10*01_C6G_A23I

2747 sequences assigned
77 (2.8%) exact matches, in which:
68 unique CDR3
3 unique J



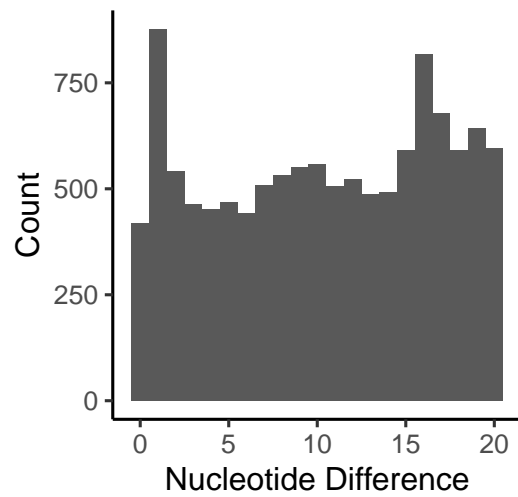
IGHV2-152*01_G261T_T

5094 sequences assigned
89 (1.7%) exact matches, in which:
82 unique CDR3
4 unique J



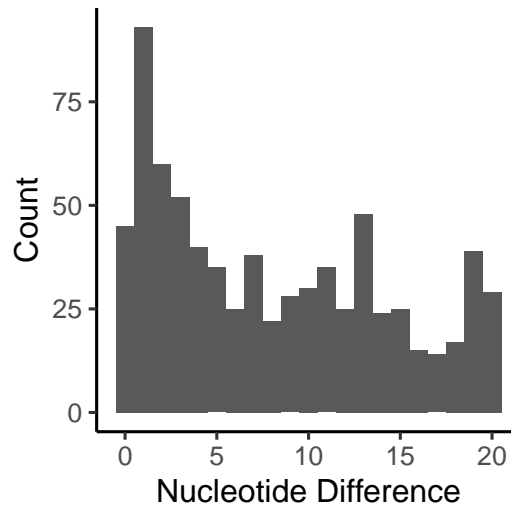
IGHV3S42*01_T19A_G24

27089 sequences assigned
419 (1.5%) exact matches, in which:
362 unique CDR3
4 unique J



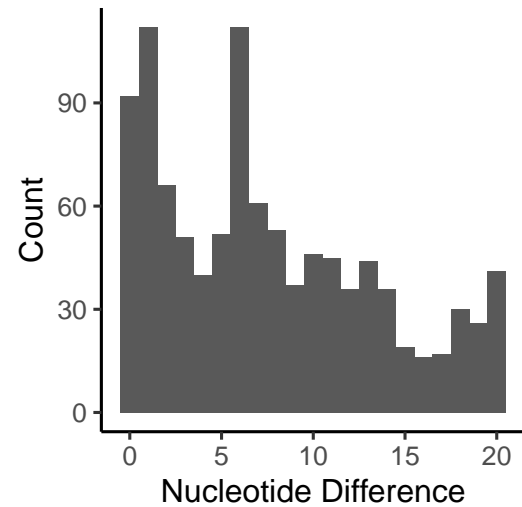
IGHV2-95*01_A252G_A2I

1041 sequences assigned
45 (4.3%) exact matches, in which:
38 unique CDR3
4 unique J



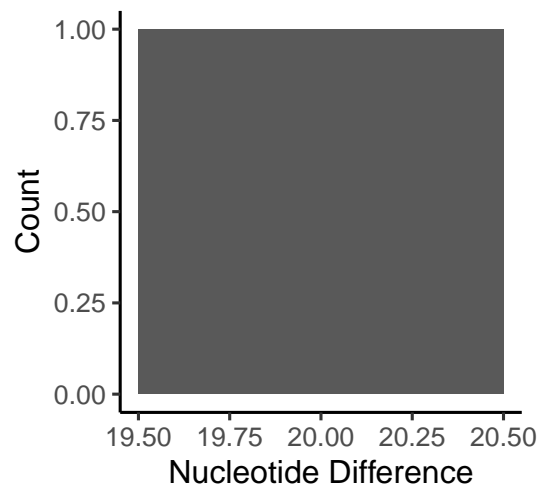
IGHV3-28*02_C118T_C1

1732 sequences assigned
92 (5.3%) exact matches, in which:
78 unique CDR3
4 unique J



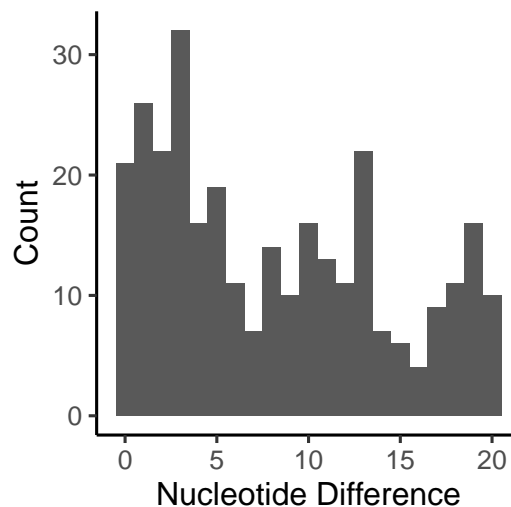
IGHV3S43*01

100 sequences assigned
No exact matches.



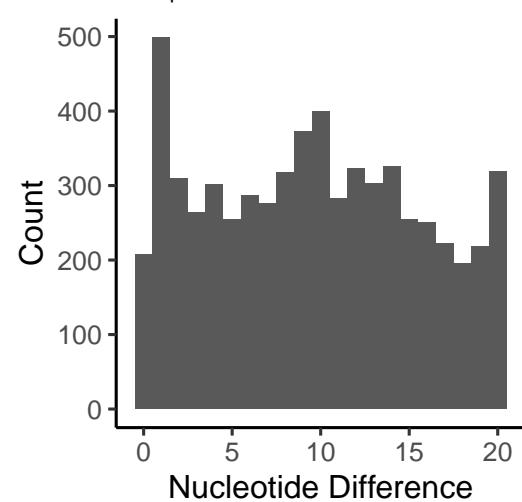
IGHV2-95*01_A252G_A2I

374 sequences assigned
21 (5.6%) exact matches, in which:
19 unique CDR3
3 unique J



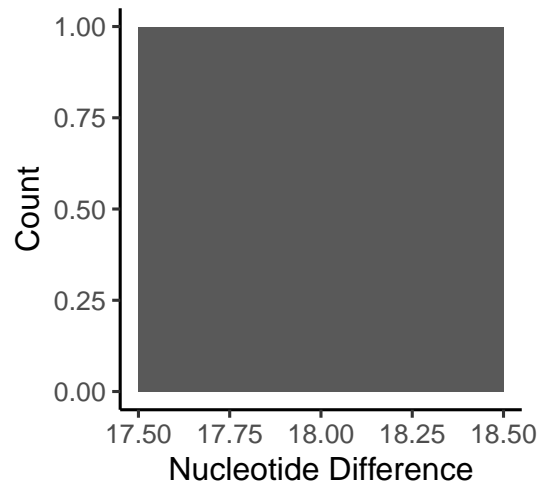
IGHV3-30*02_C141G

9617 sequences assigned
208 (2.2%) exact matches, in which:
176 unique CDR3
4 unique J



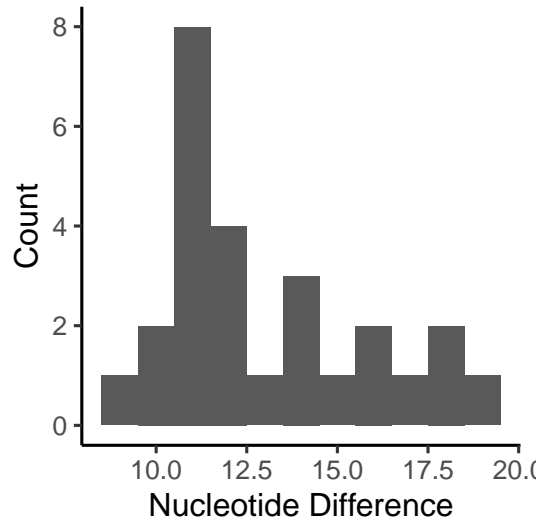
IGHV3-34*01

67 sequences assigned
No exact matches.



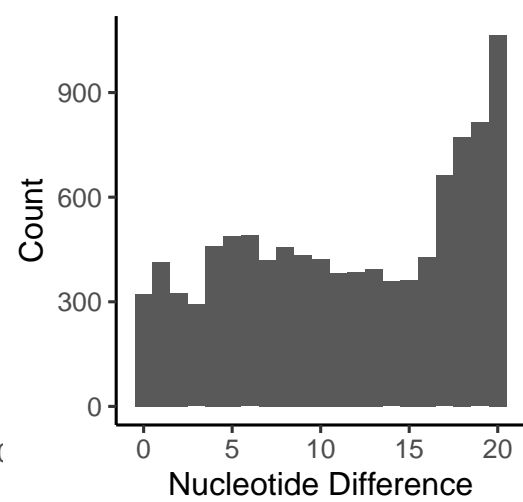
IGHV3-117*01

489 sequences assigned
No exact matches.



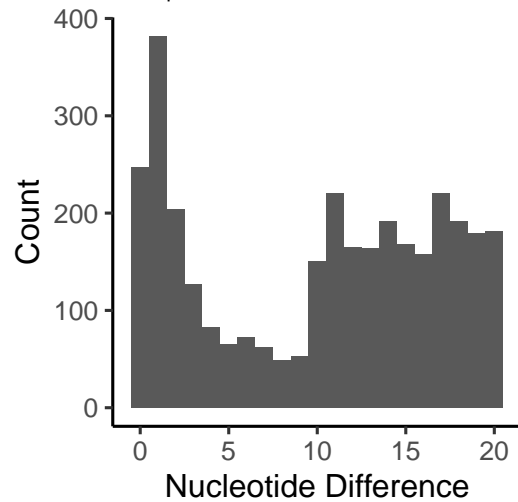
IGHV4-80*01_C60T_C61

28012 sequences assigned
323 (1.2%) exact matches, in which:
299 unique CDR3
4 unique J



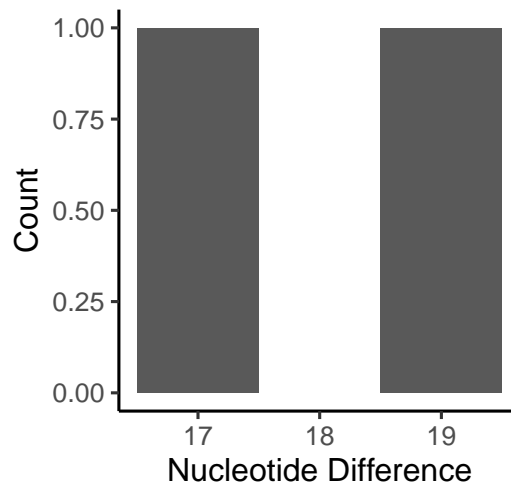
IGHV3-59*01_C118T_T1

6078 sequences assigned
247 (4.1%) exact matches, in which:
218 unique CDR3
4 unique J



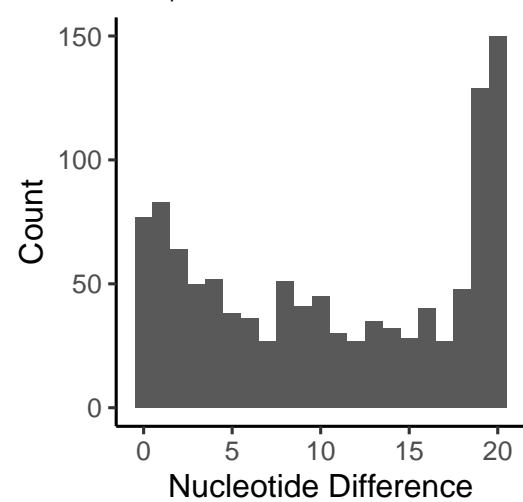
IGHV3-137*01

665 sequences assigned
No exact matches.



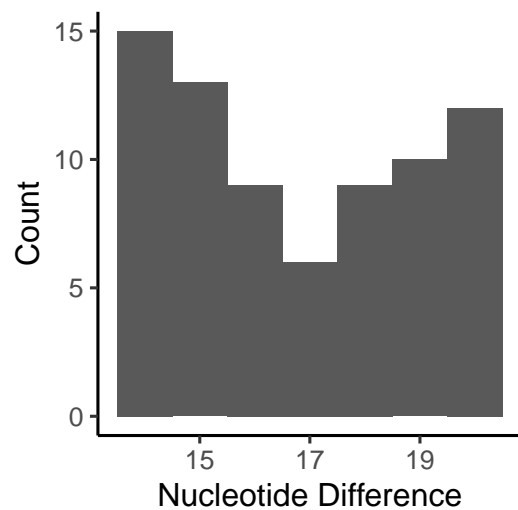
IGHV4-127*01_T82G_A8

3854 sequences assigned
77 (2%) exact matches, in which:
70 unique CDR3
4 unique J



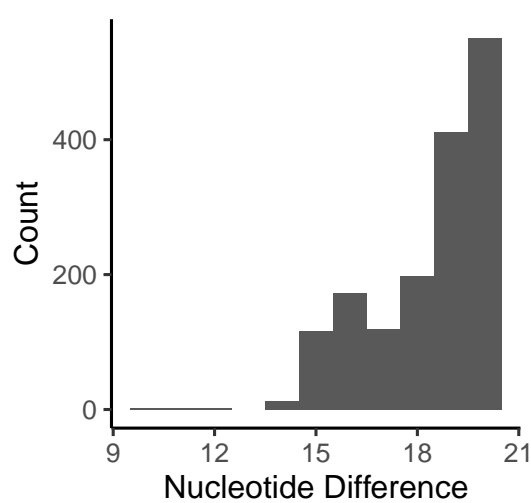
IGHV3-108*01

1525 sequences assigned
No exact matches.



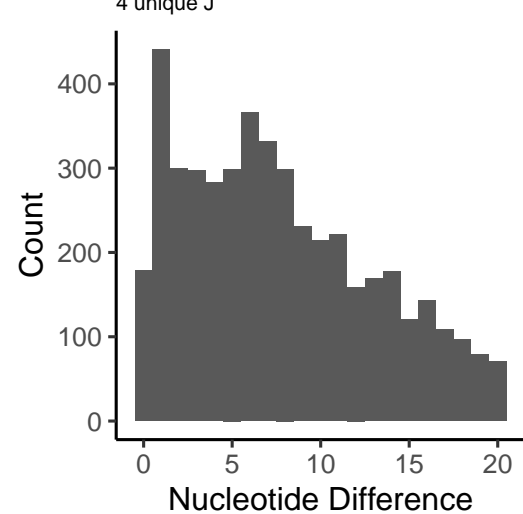
IGHV4-73*01

11587 sequences assigned
No exact matches.



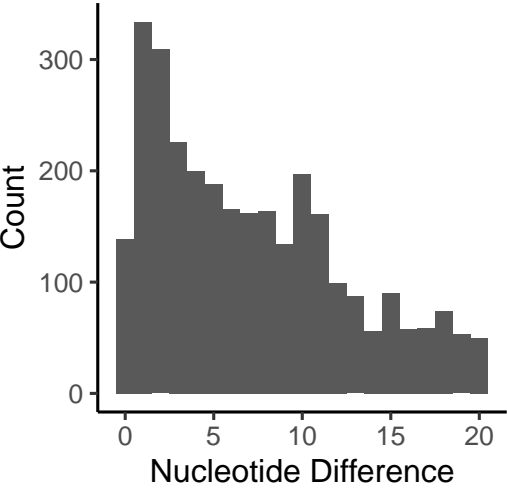
IGHV5-20*02_A141G

4971 sequences assigned
179 (3.6%) exact matches, in which:
151 unique CDR3
4 unique J



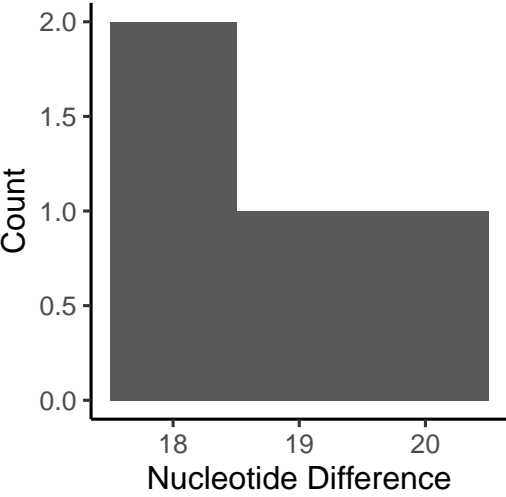
IGHV5-43*01_A106G_C2

3234 sequences assigned
139 (4.3%) exact matches, in which:
116 unique CDR3
3 unique J



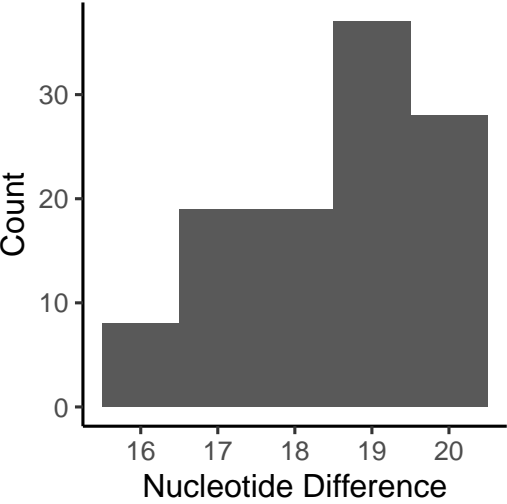
IGHV7-128*01

8 sequences assigned
No exact matches.



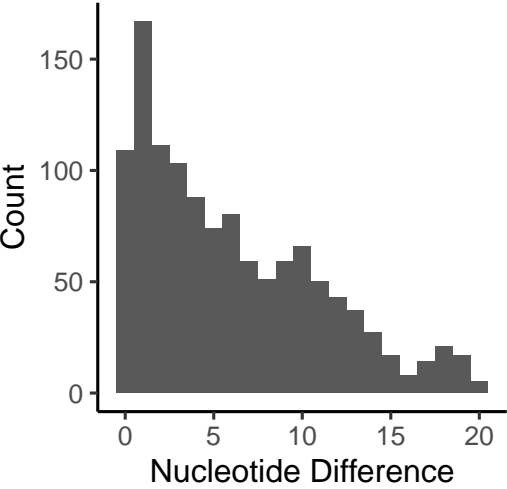
IGHV7-94*01

204 sequences assigned
No exact matches.

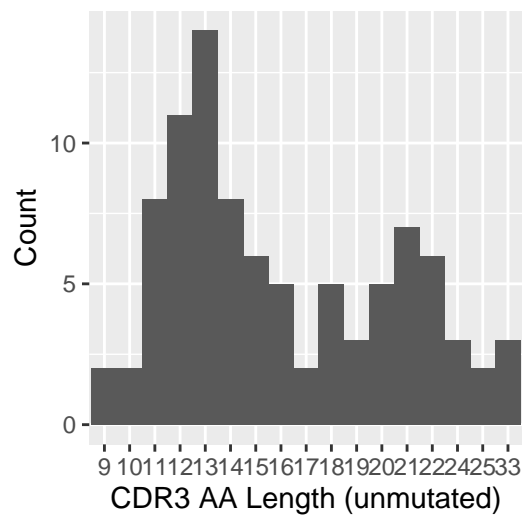


IGHV7-114*01_T81A

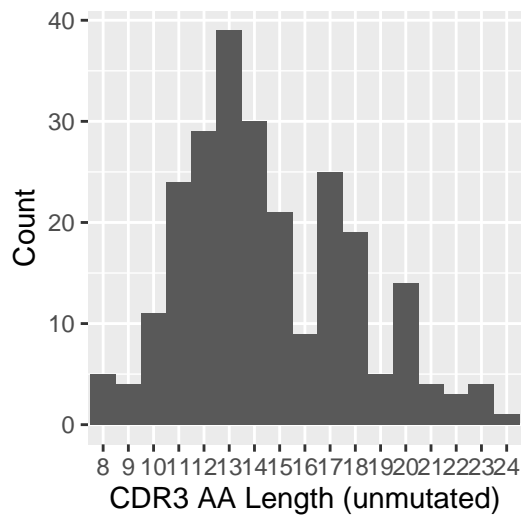
1285 sequences assigned
109 (8.5%) exact matches, in which:
97 unique CDR3
3 unique J



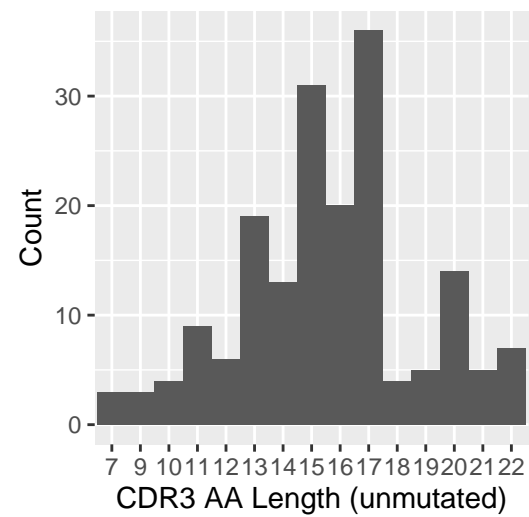
IGHV3-28*02_C118T_C176C



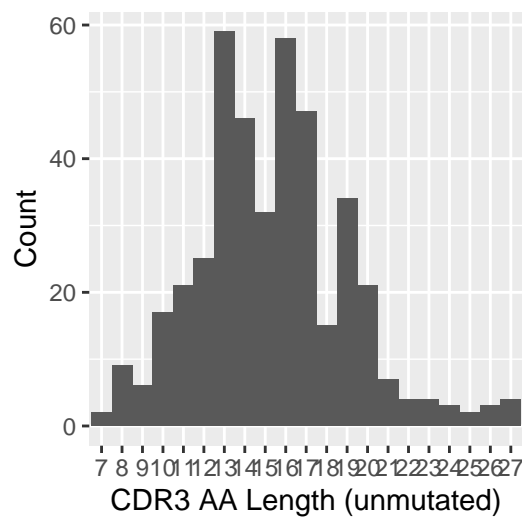
IGHV3-59*01_C118T_T136C



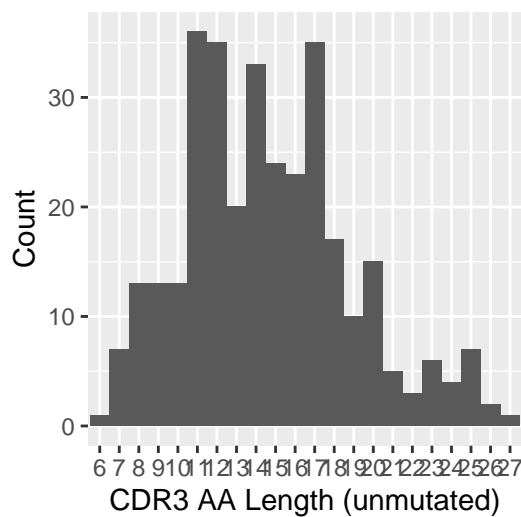
IGHV5-20*02_A141G



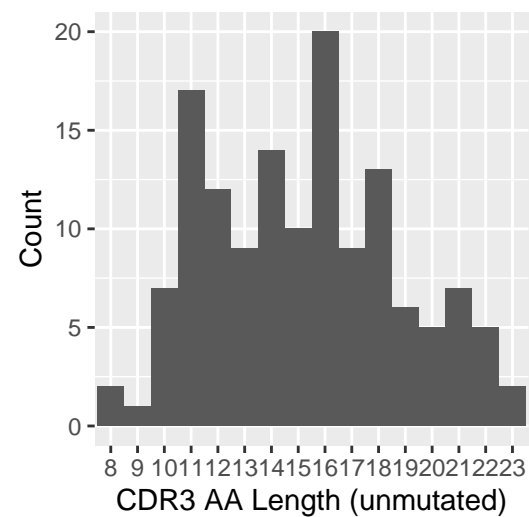
IGHV3S42*01_T19A_G24A_



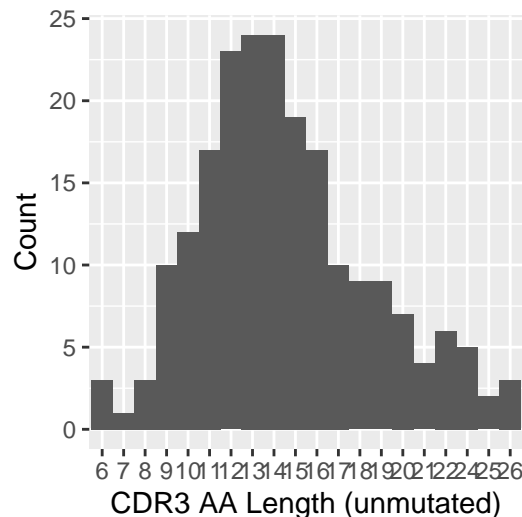
IGHV4-80*01_C60T_C61G_



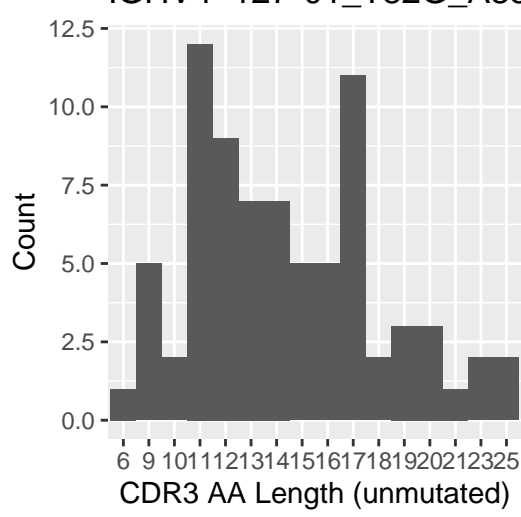
IGHV5-43*01_A106G_C297



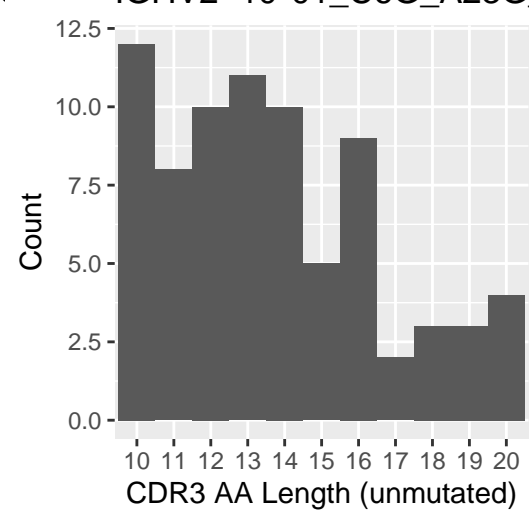
IGHV3-30*02_C141G



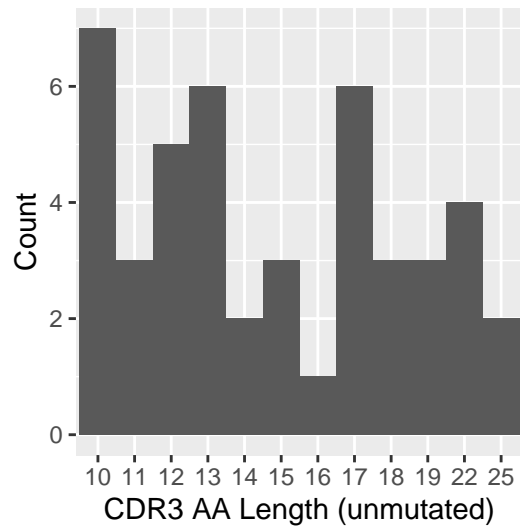
IGHV4-127*01_T82G_A83C



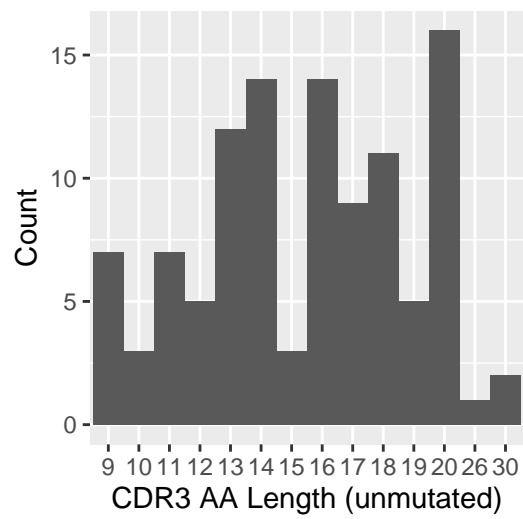
IGHV2-10*01_C6G_A23G_



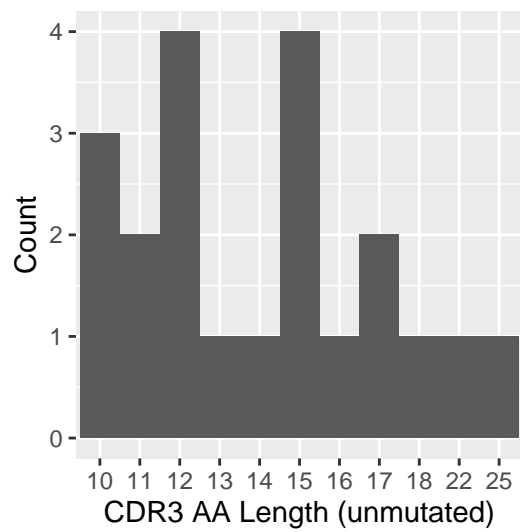
IGHV2-95*01_A252G_A267G



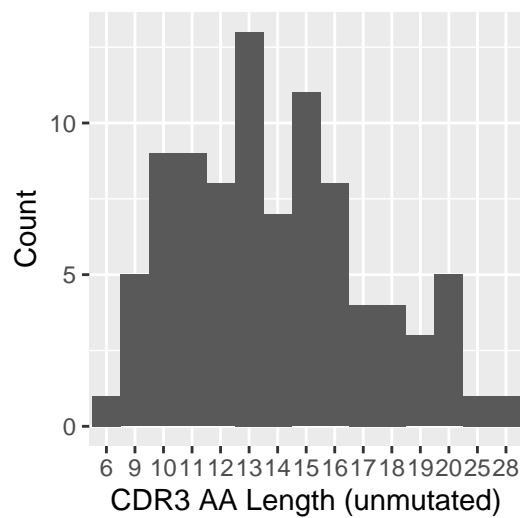
IGHV7-114*01_T81A

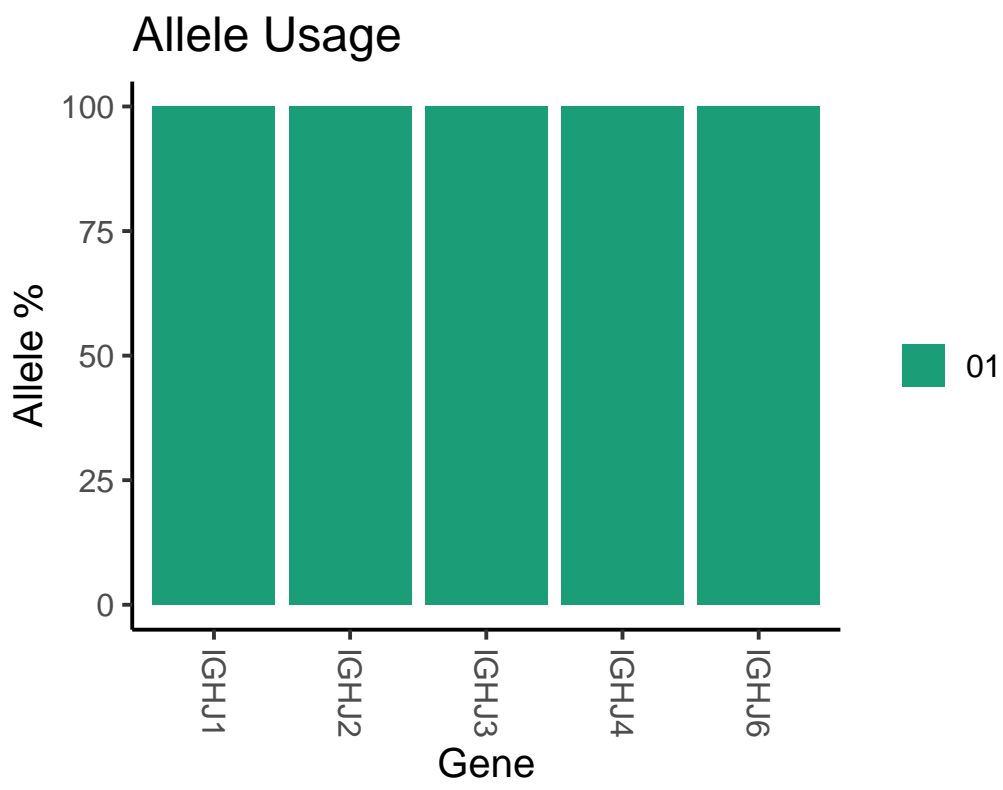


IGHV2-95*01_A252G_A267G_G289T



IGHV2-152*01_G261T_T264C_A267T_A289T





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.