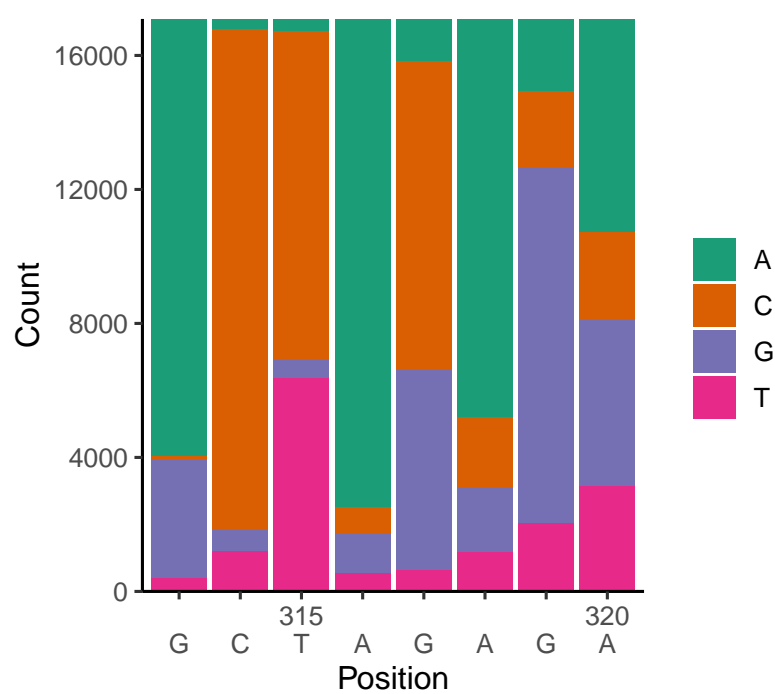
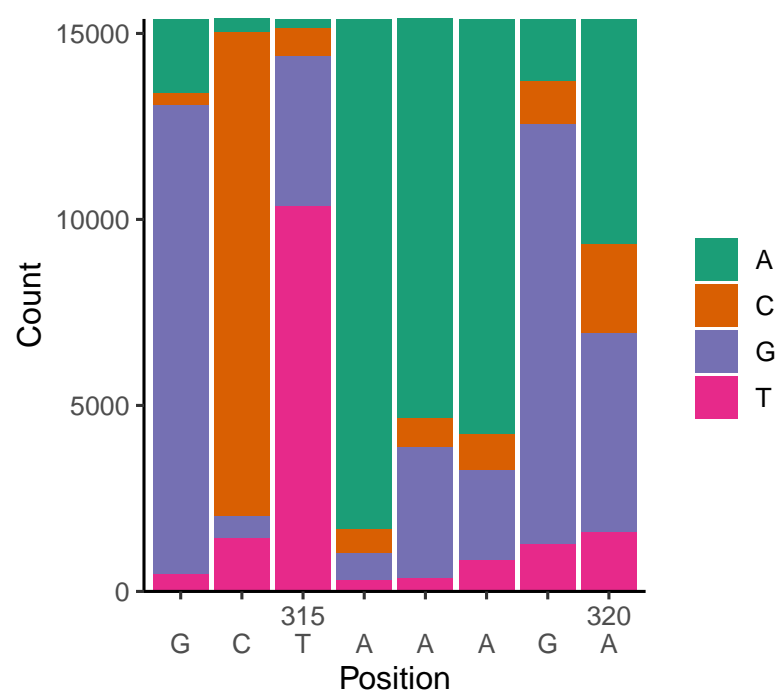


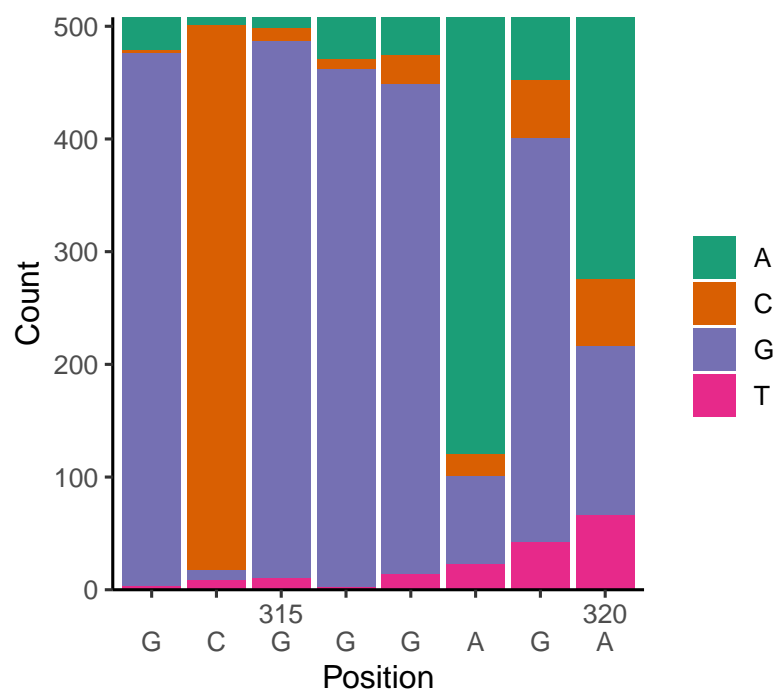
Gene IGHV3-38*01_G106A_C109T_A1



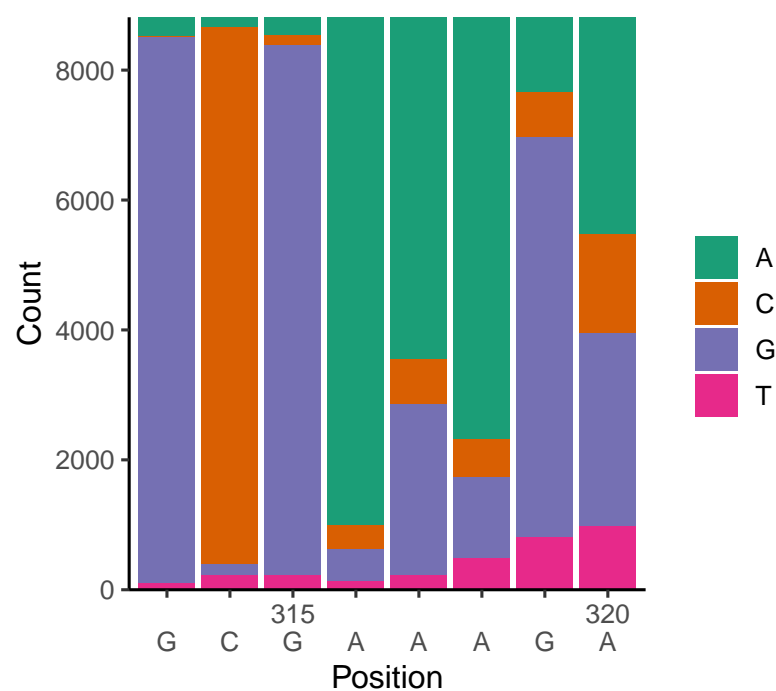
Gene IGHV3S42*01_C27A_C38T_A39C



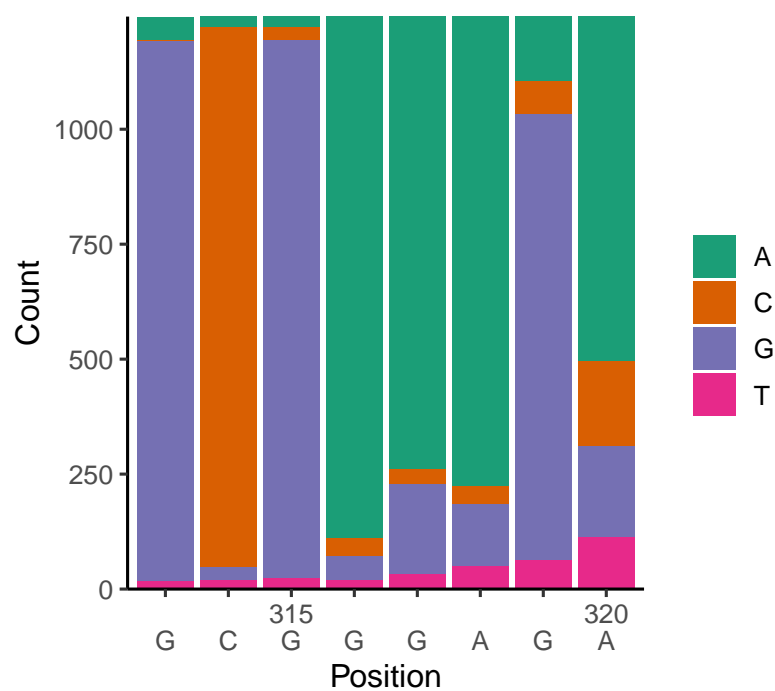
Gene IGHV3-28*02_C118T_G277A



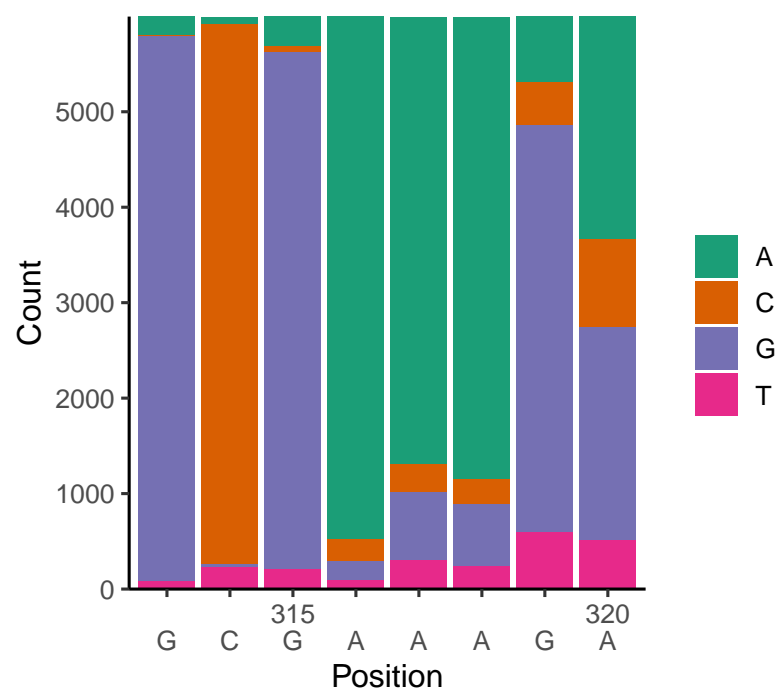
Gene IGHV3-103*01_T19A_G24A_C27A



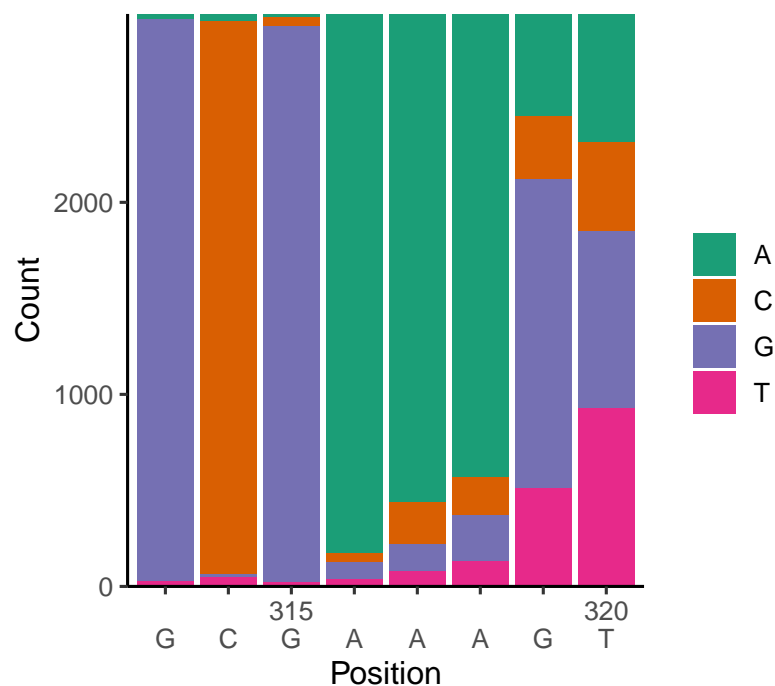
Gene IGHV3-28*02_C118T_C176G_A18G



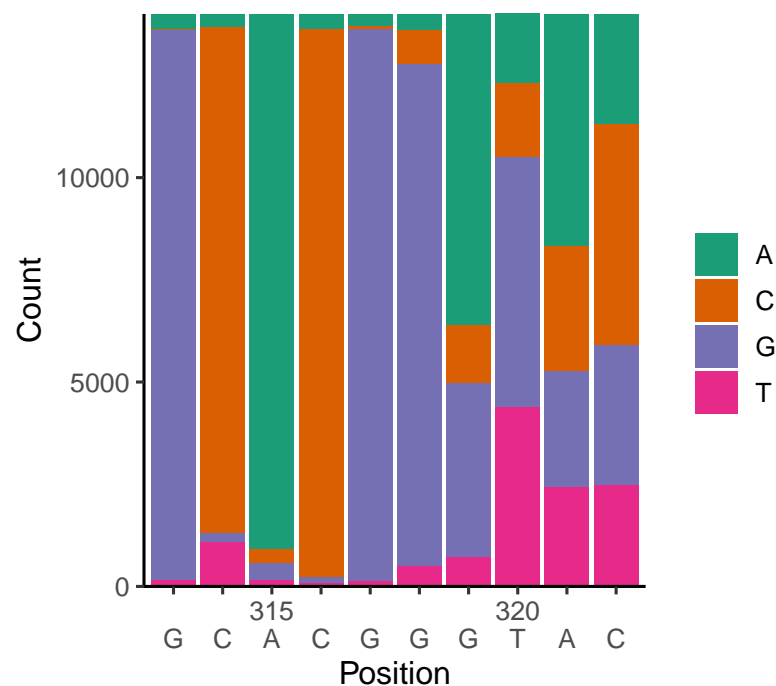
Gene IGHV5-20*02_A141G_C312T



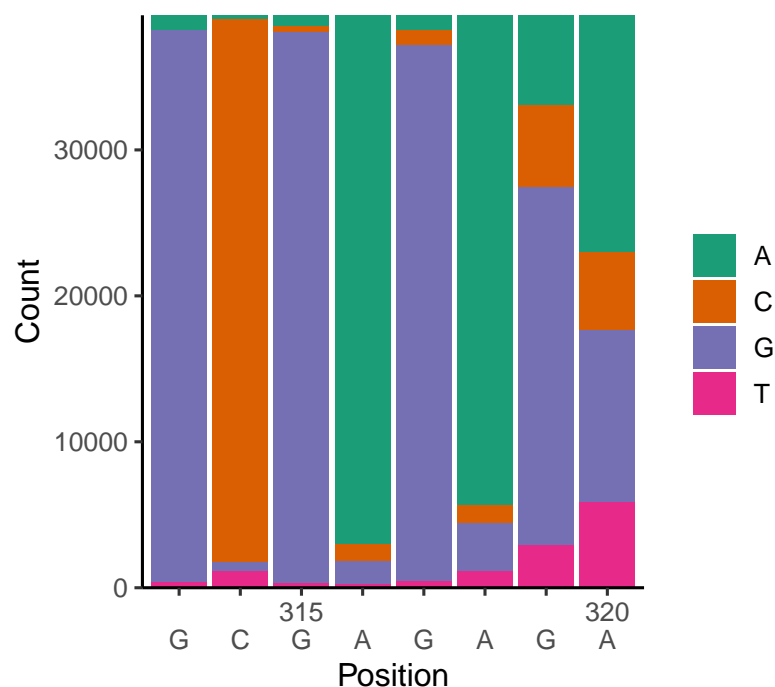
Gene IGHV5-43*02_A59G



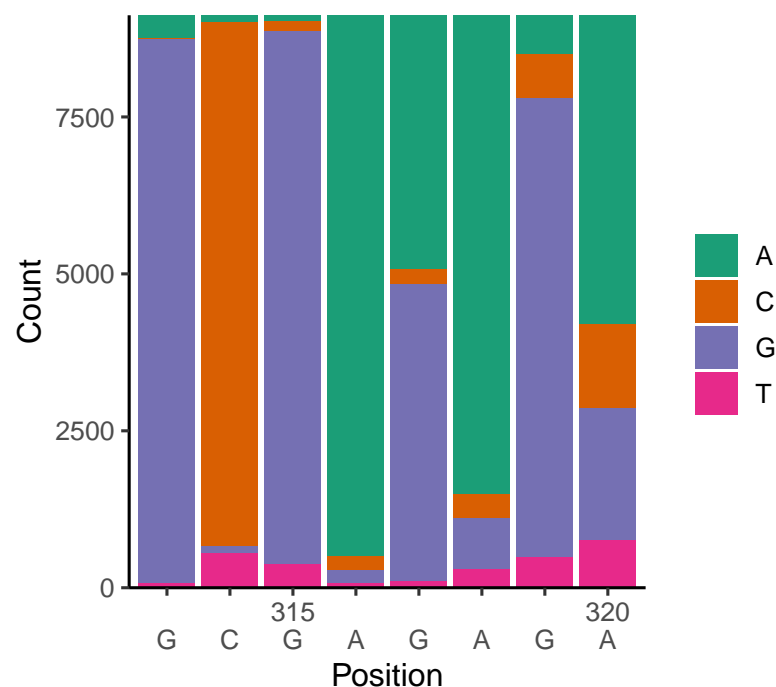
Gene IGHV2S1*01_G289T



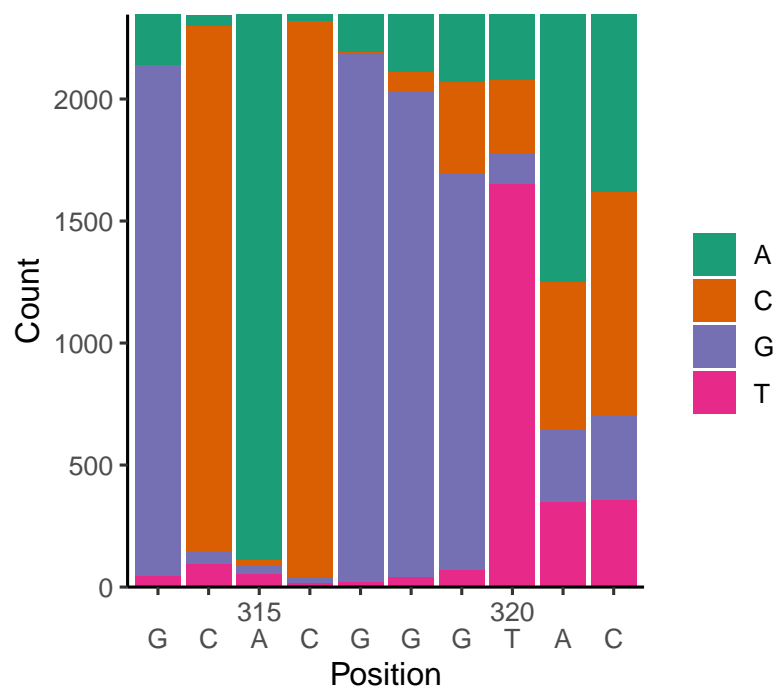
Gene IGHV4S2*01_G248C



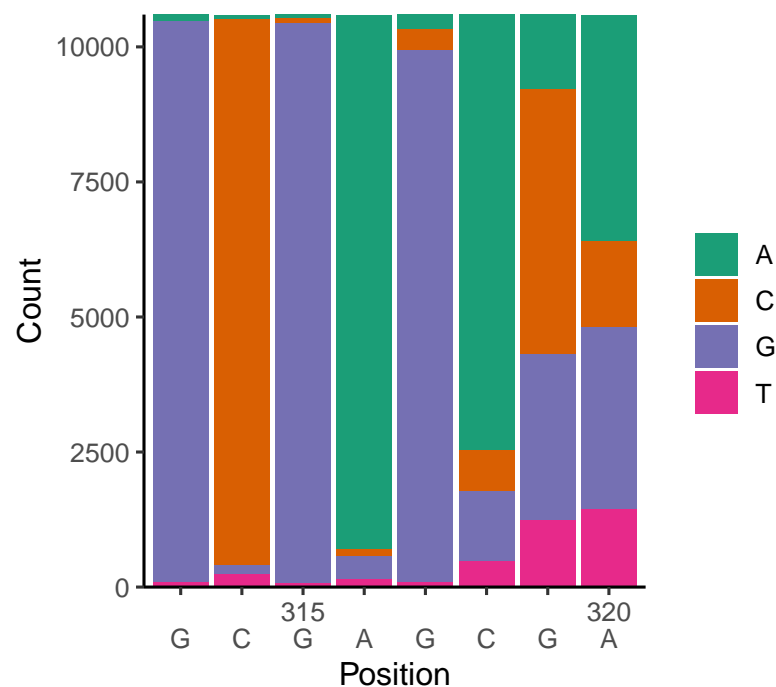
Gene IGHV3-59*01_C69T_C86G_C118



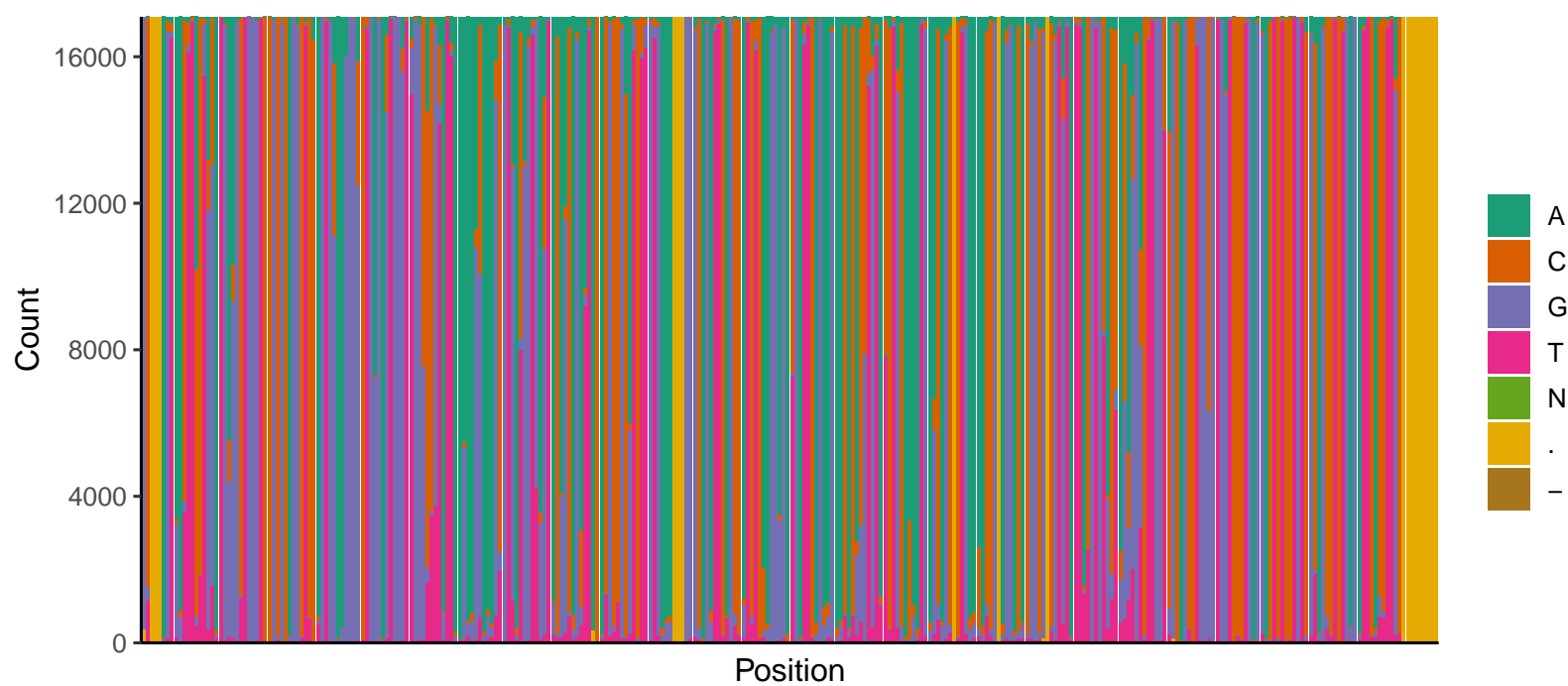
Gene IGHV2-95*01_G289T



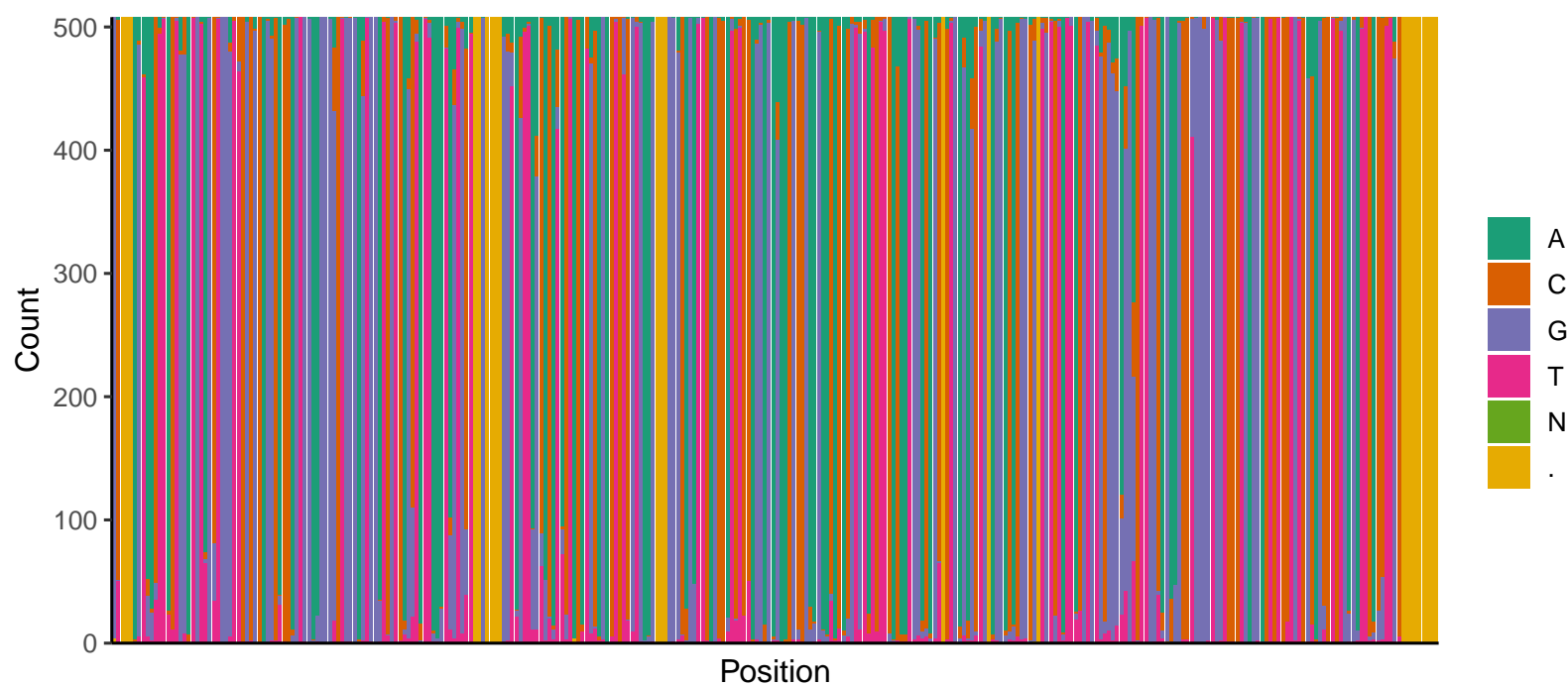
Gene IGHV4-169*02_T60C_G61C_C25



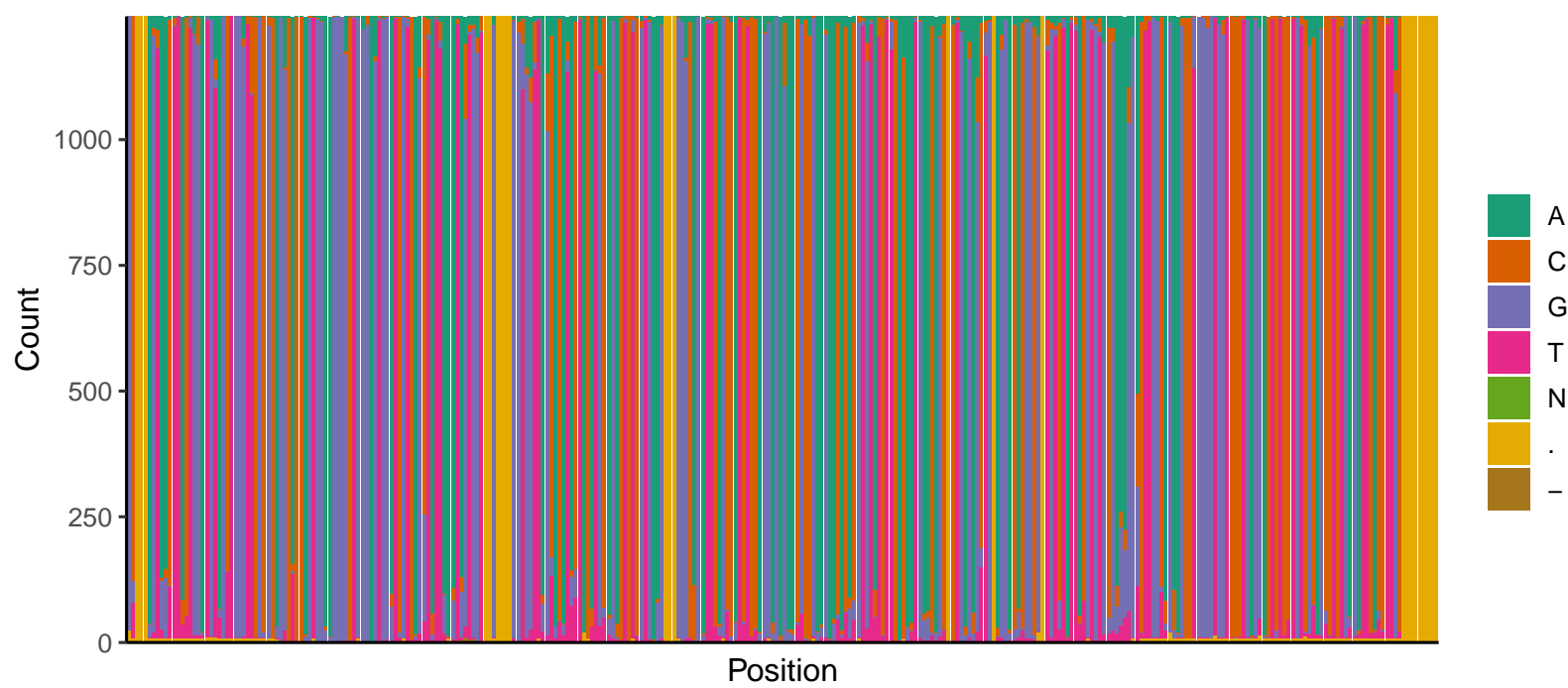
Gene IGHV3-38*01_G106A_C109T_A192G_T300C



Gene IGHV3-28*02_C118T_G277A



Gene IGHV3-28*02_C118T_C176G_A187G_G274A_G277A



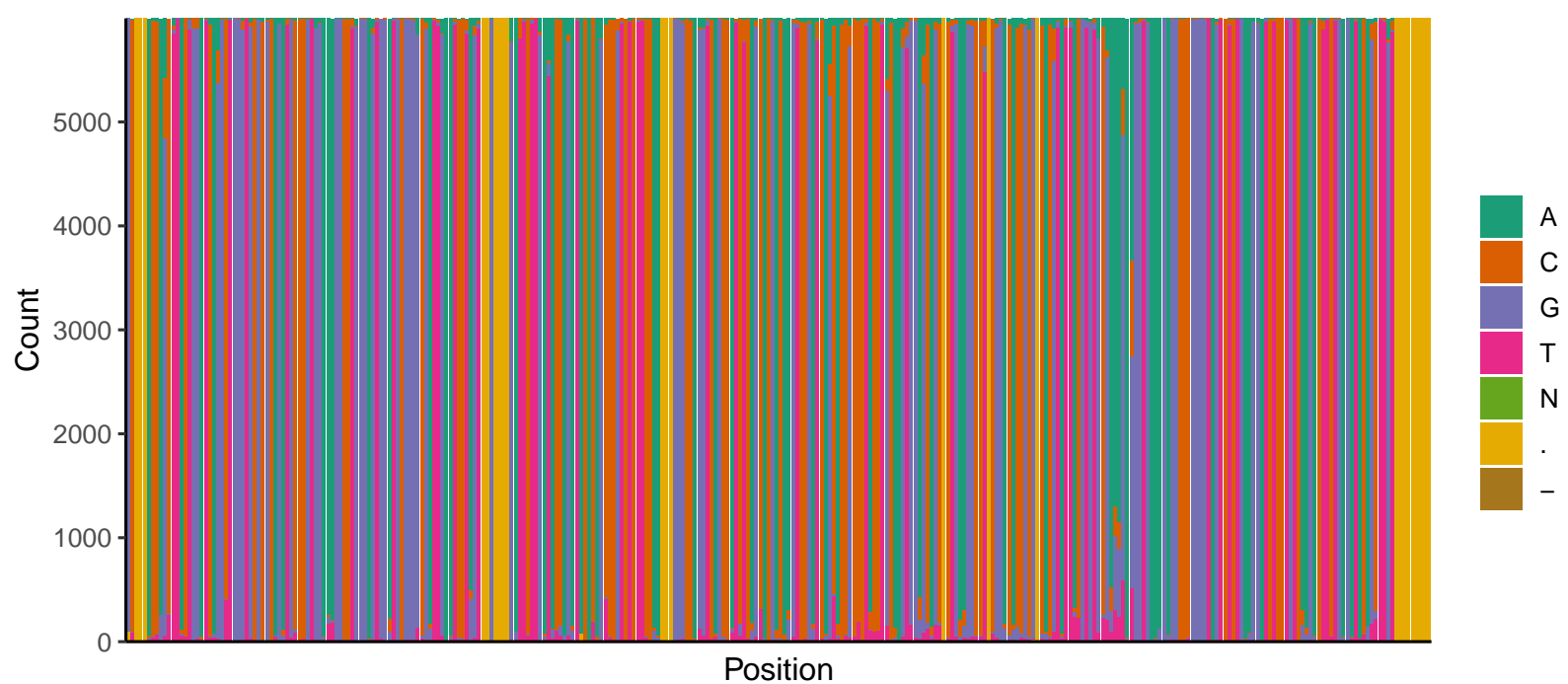
Gene IGHV3S42*01_C27A_C38T_A39G_A40C_G113A_G114C_A118T_T120C_A133G



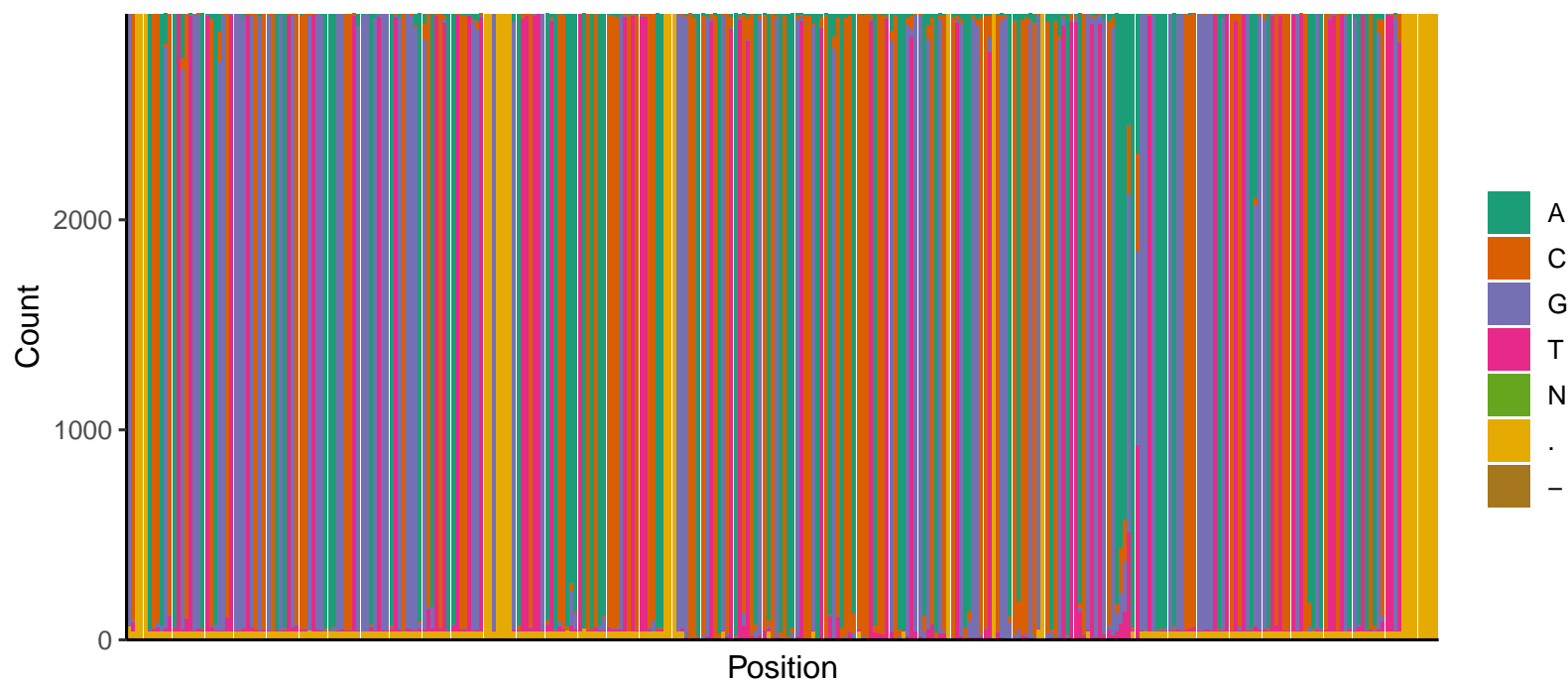
Gene IGHV3-103*01_T19A_G24A_C27A_C38T_A39C_A40C_C120G_G157A



Gene IGHV5-20*02_A141G_C312T



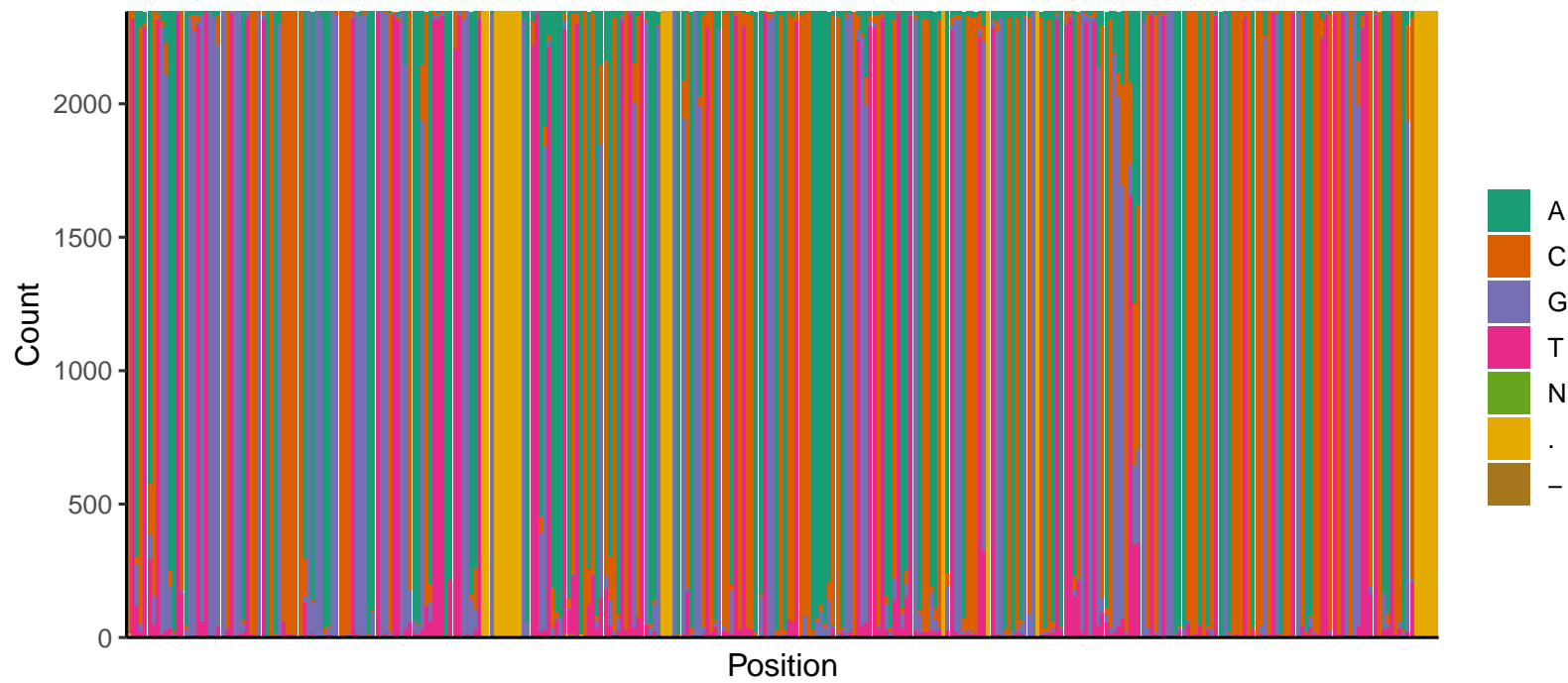
Gene IGHV5-43*02_A59G



Gene IGHV4S2*01_G248C



Gene IGHV2-95*01_G289T



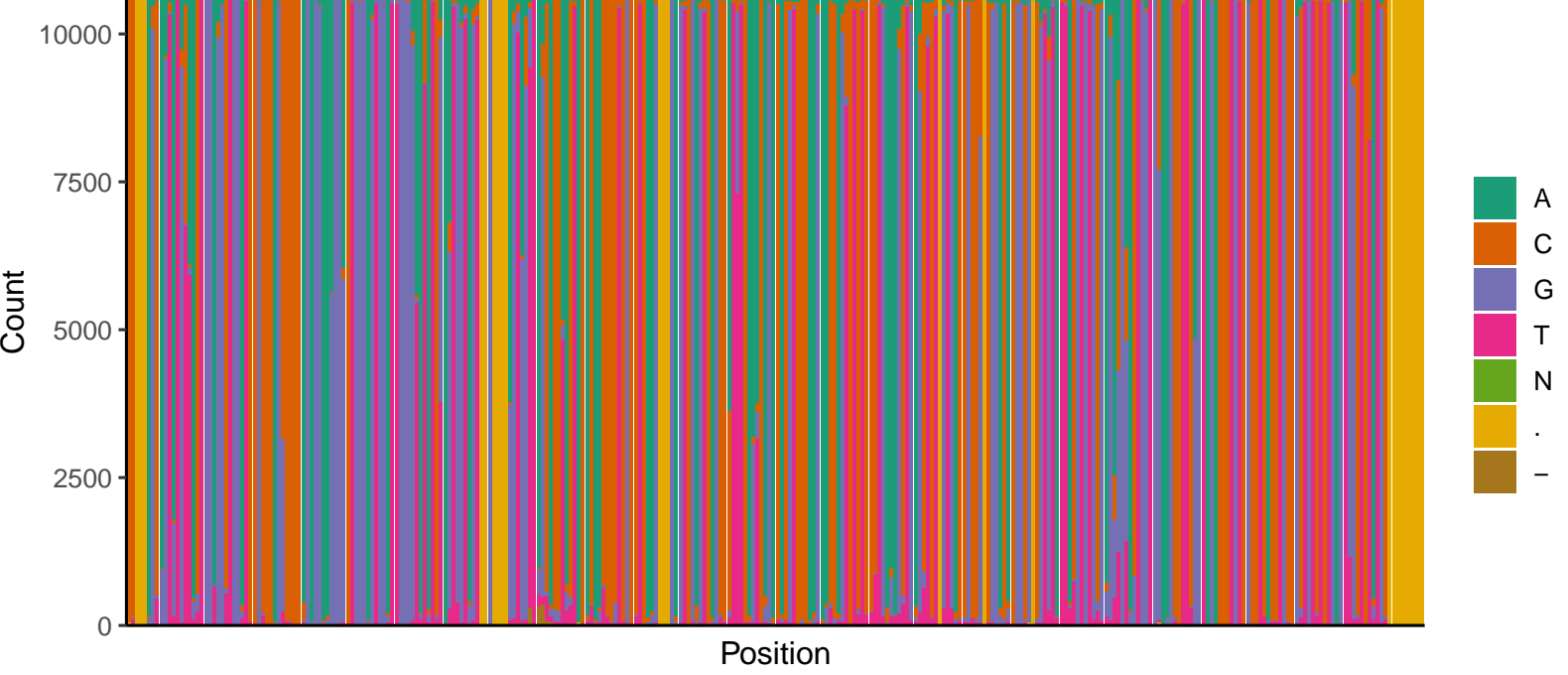
Gene IGHV2S1*01_G289T



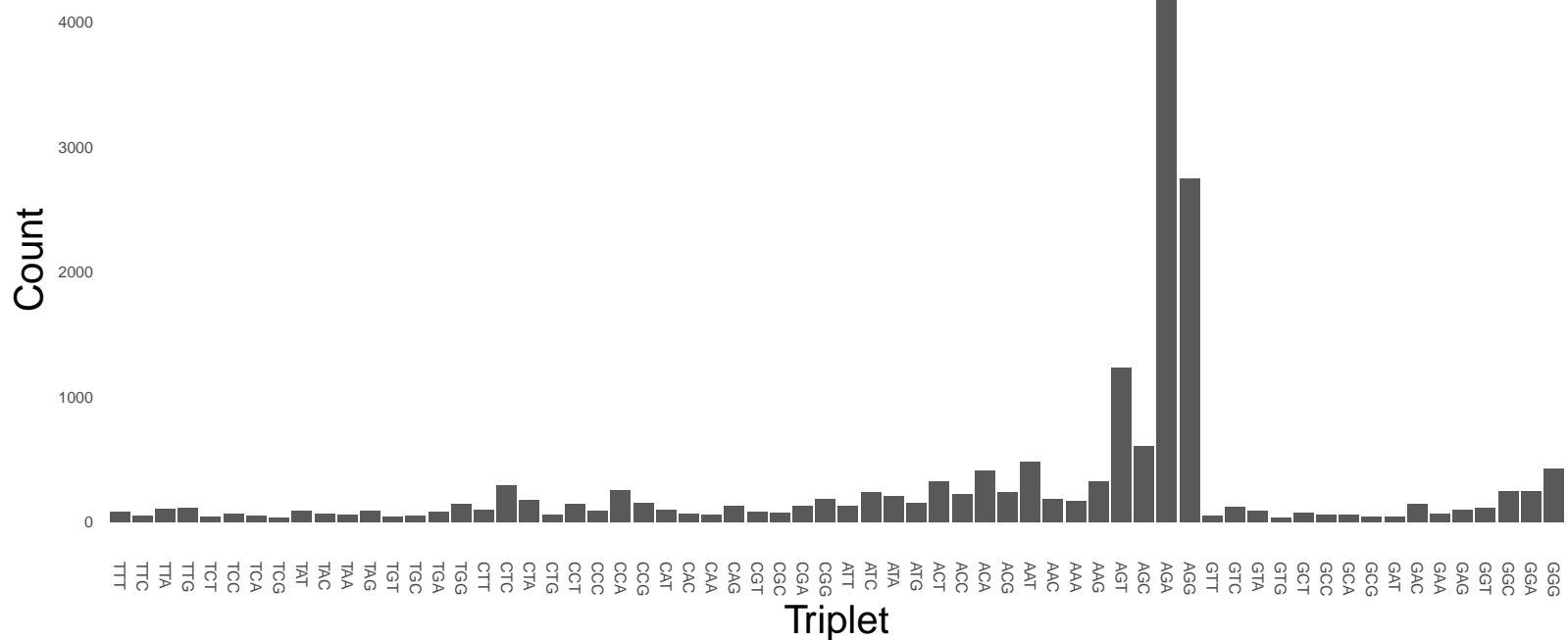
Gene IGHV3-59*01_C69T_C86G_C118T_T136C_C163G_A172T_G175A_G176C_G197



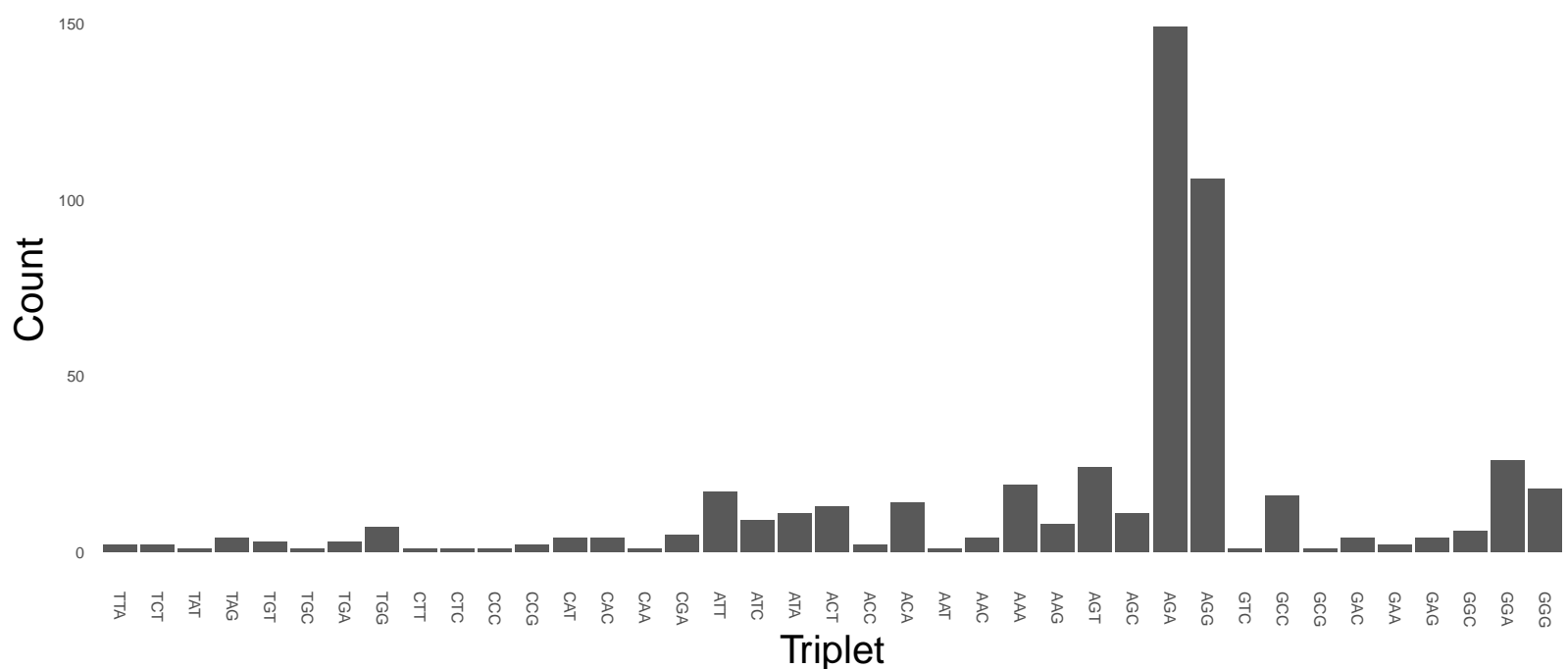
Gene IGHV4-169*02_T60C_G61C_C259T



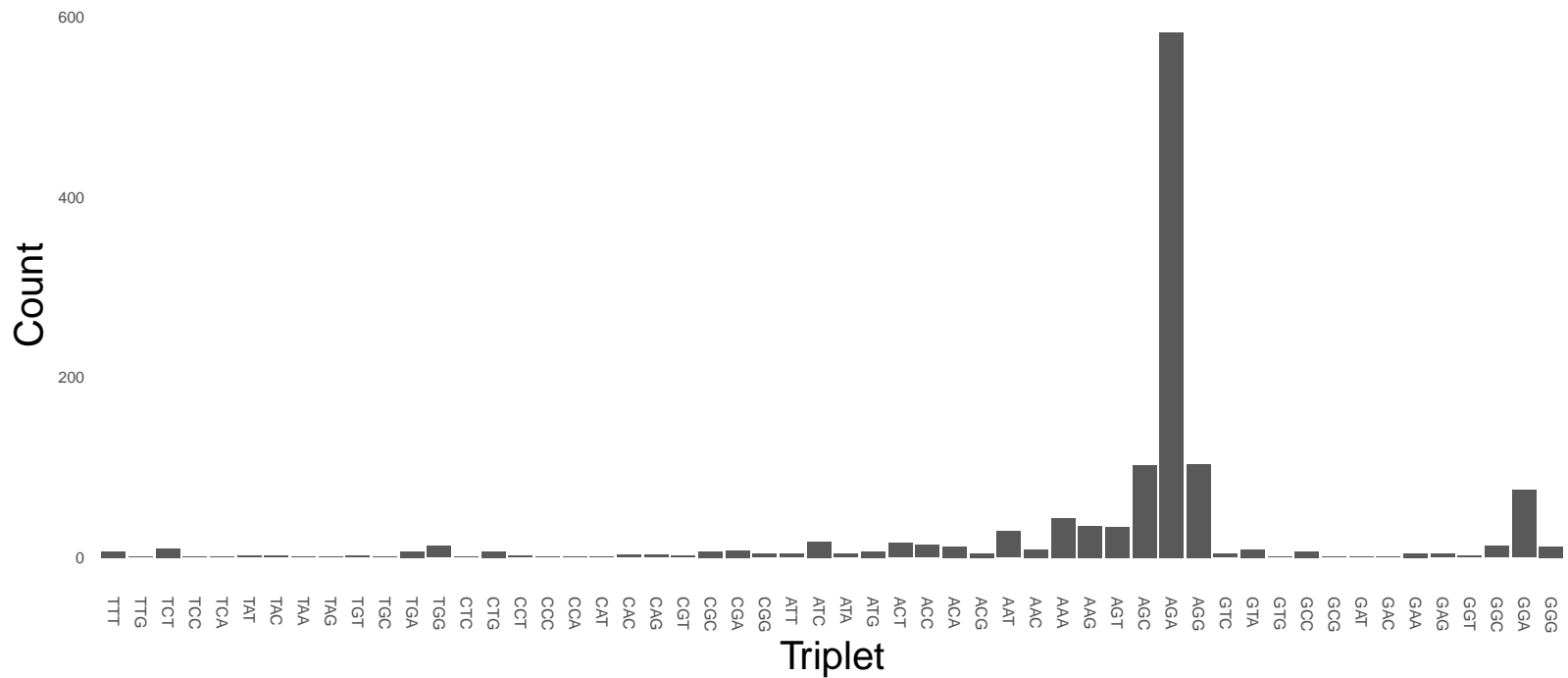
IGHV3-38*01_G106A_C109T_A192G_T300C- Final 3 nucleotides as a triplet



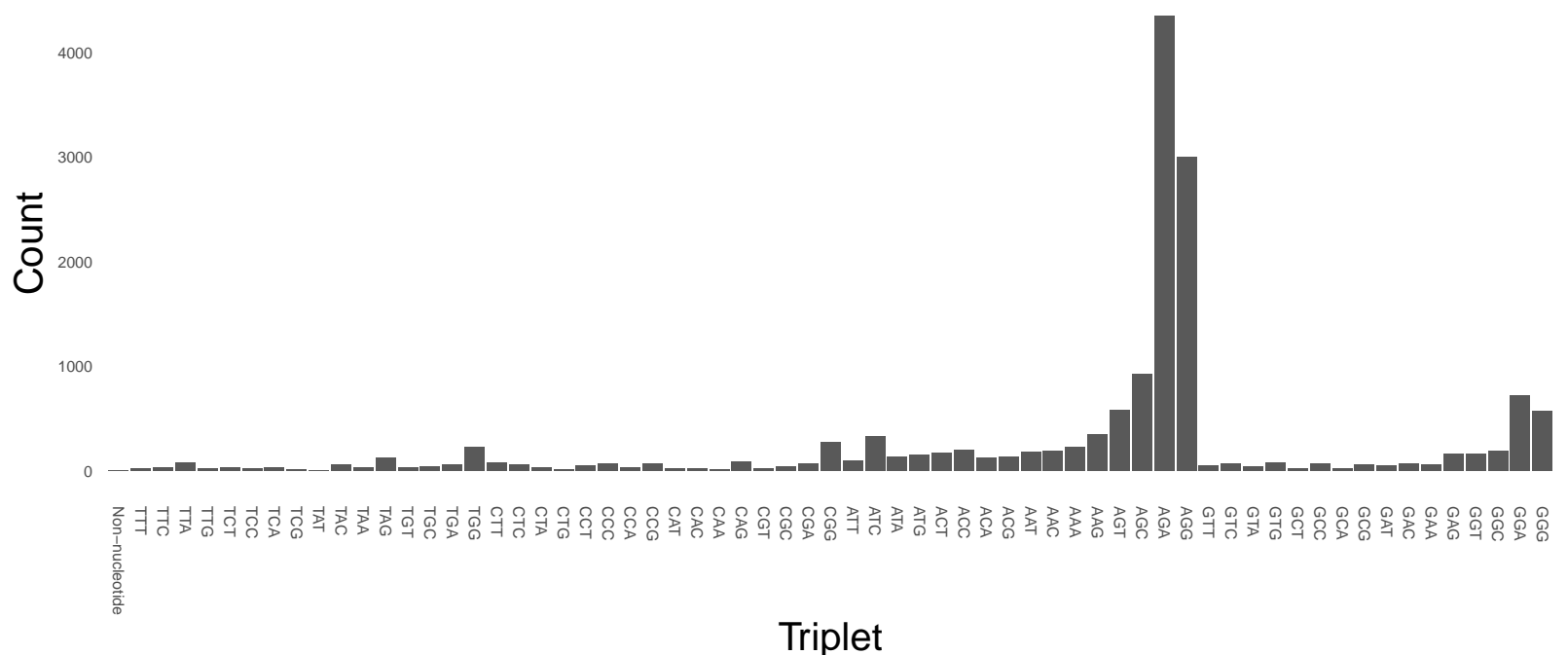
IGHV3-28*02_C118T_G277A- Final 3 nucleotides as a triplet



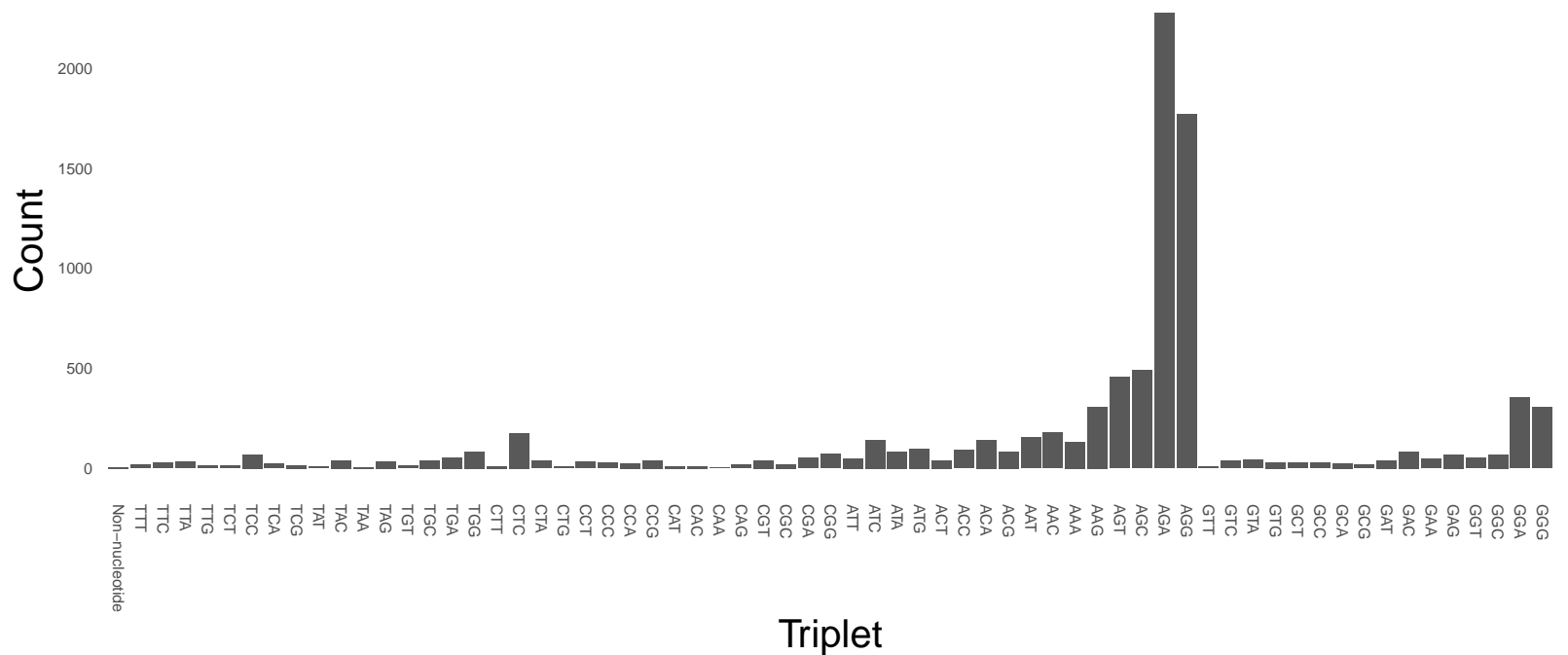
IGHV3-28*02_C118T_C176G_A187G_G274A_G277A- Final 3 nucleotides as a triplet



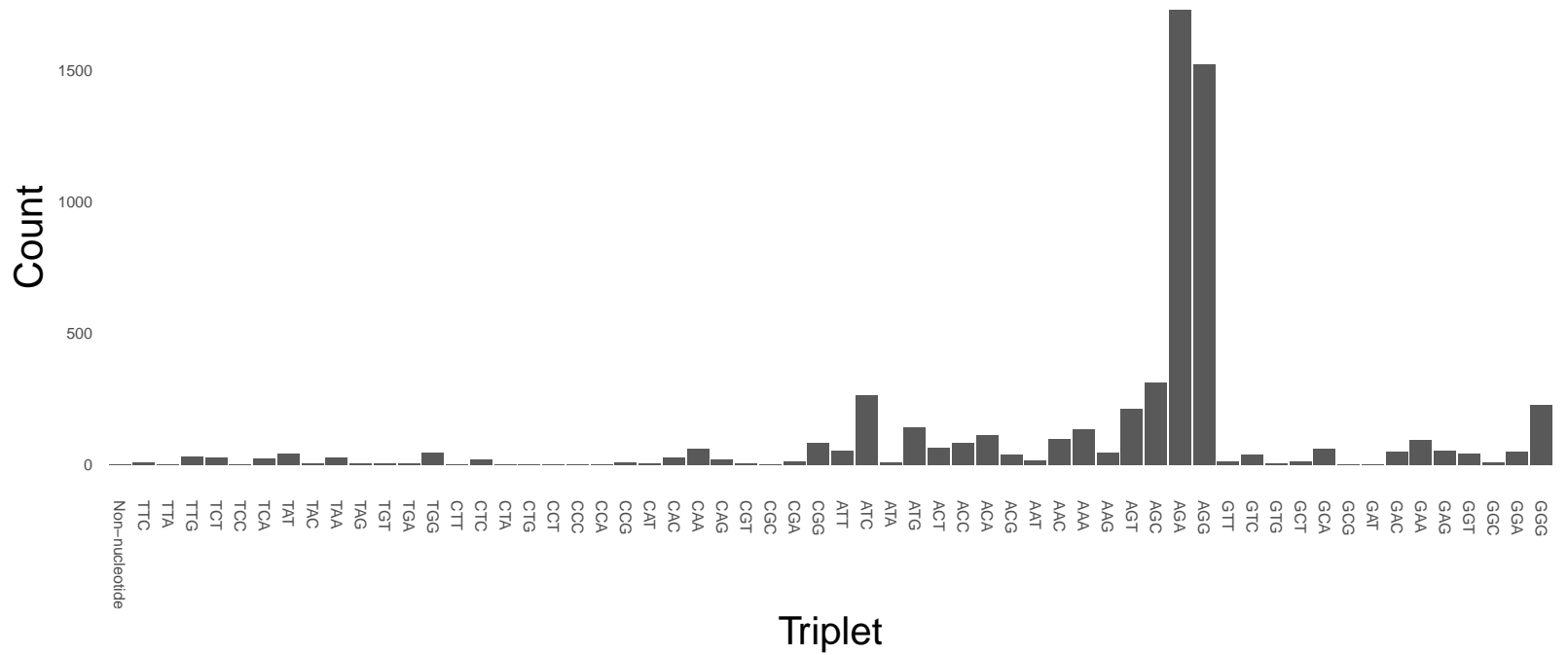
IGHV3S42*01_C27A_C38T_A39G_A40C_G113A_G114C_A118T_T120C_A133G_G173C_G216



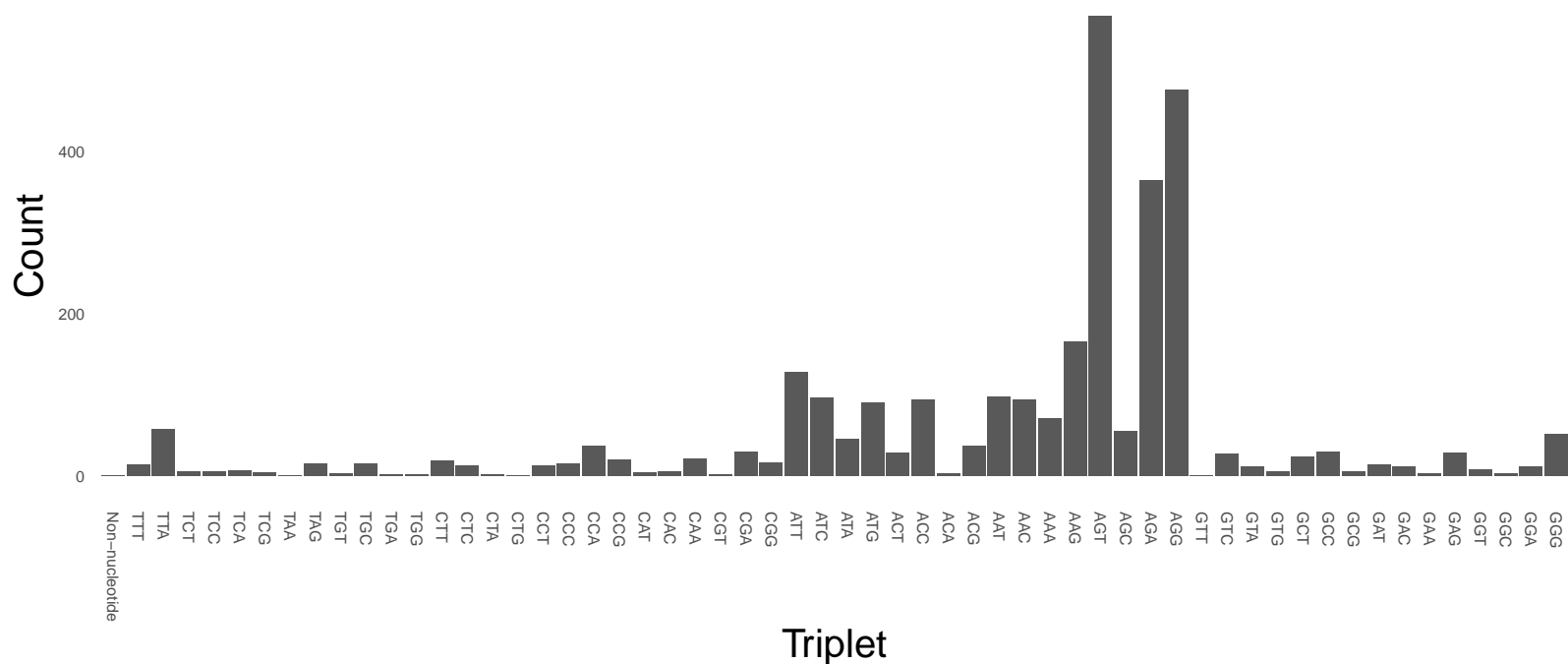
IGHV3-103*01_T19A_G24A_C27A_C38T_A39C_A40C_C120G_G157A- Final 3 nucleotides as a



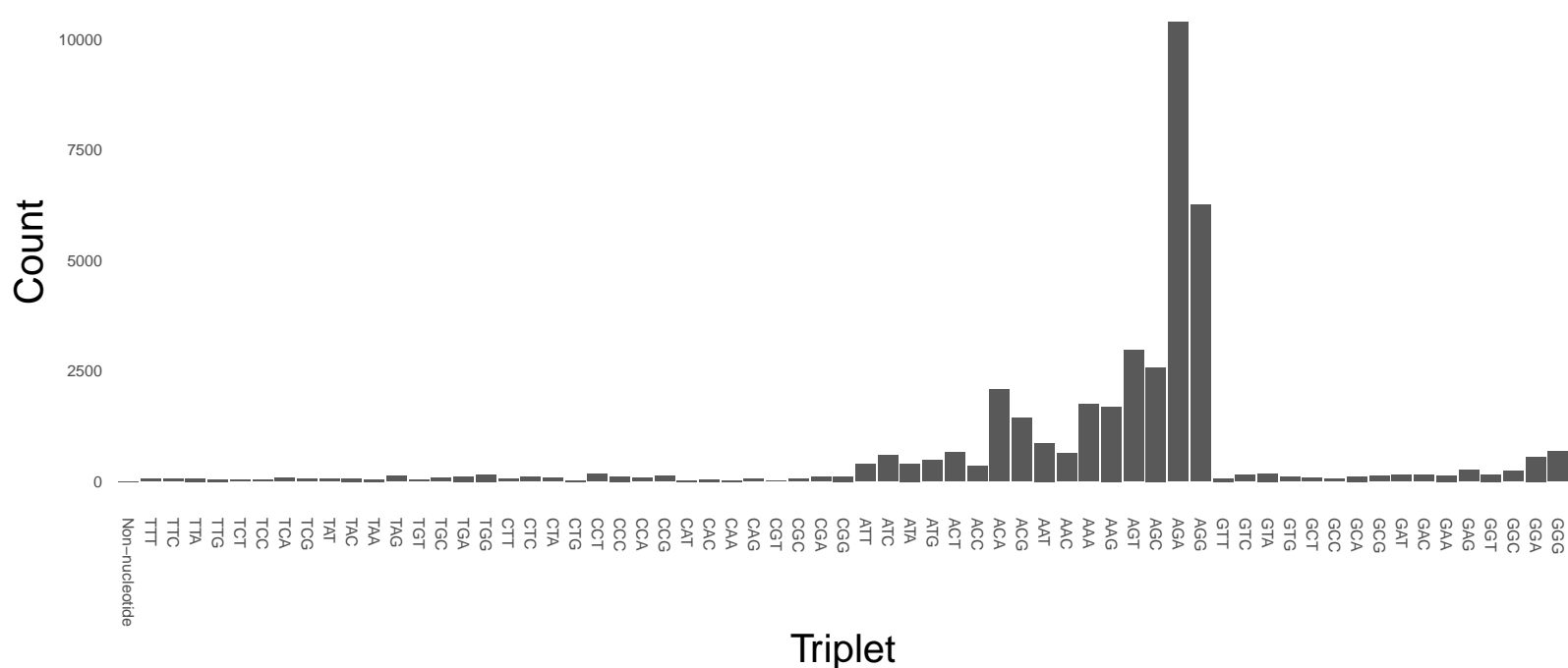
IGHV5-20*02_A141G_C312T- Final 3 nucleotides as a triplet



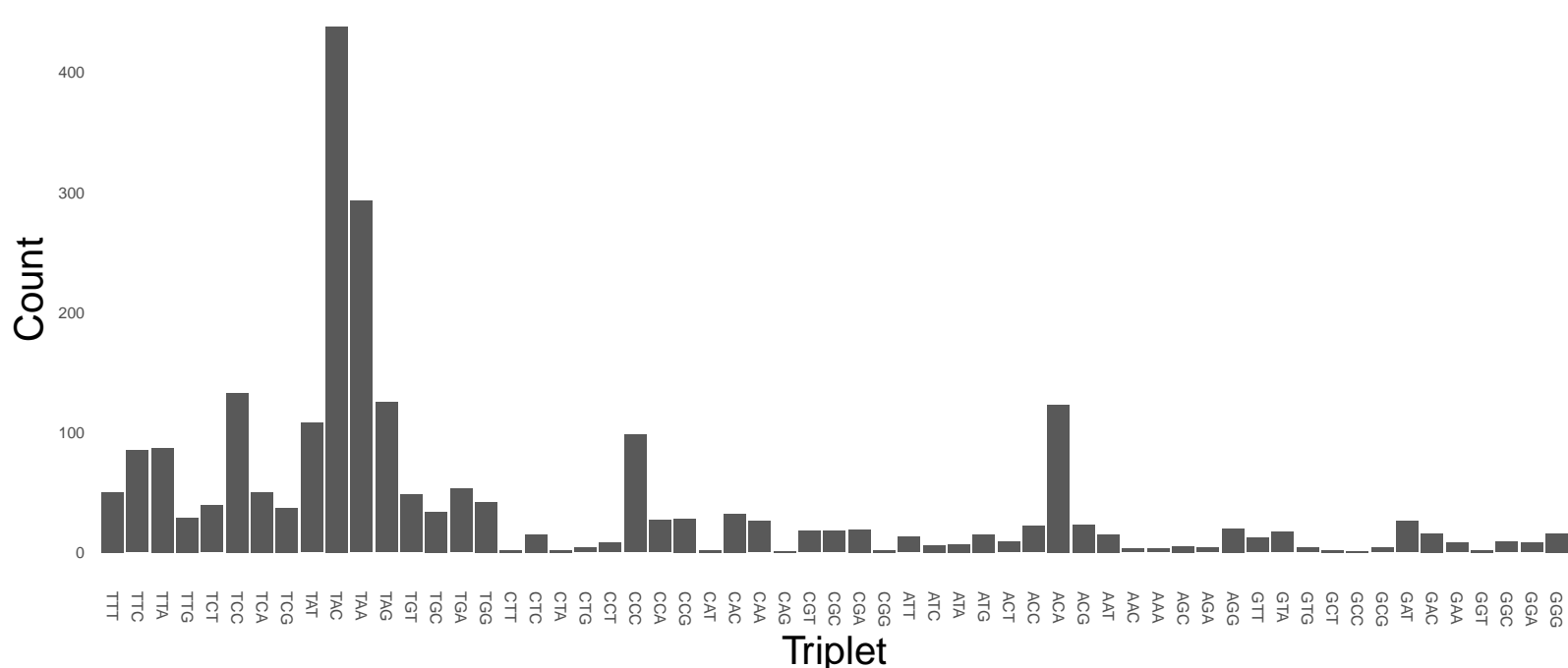
IGHV5–43*02_A59G– Final 3 nucleotides as a triplet



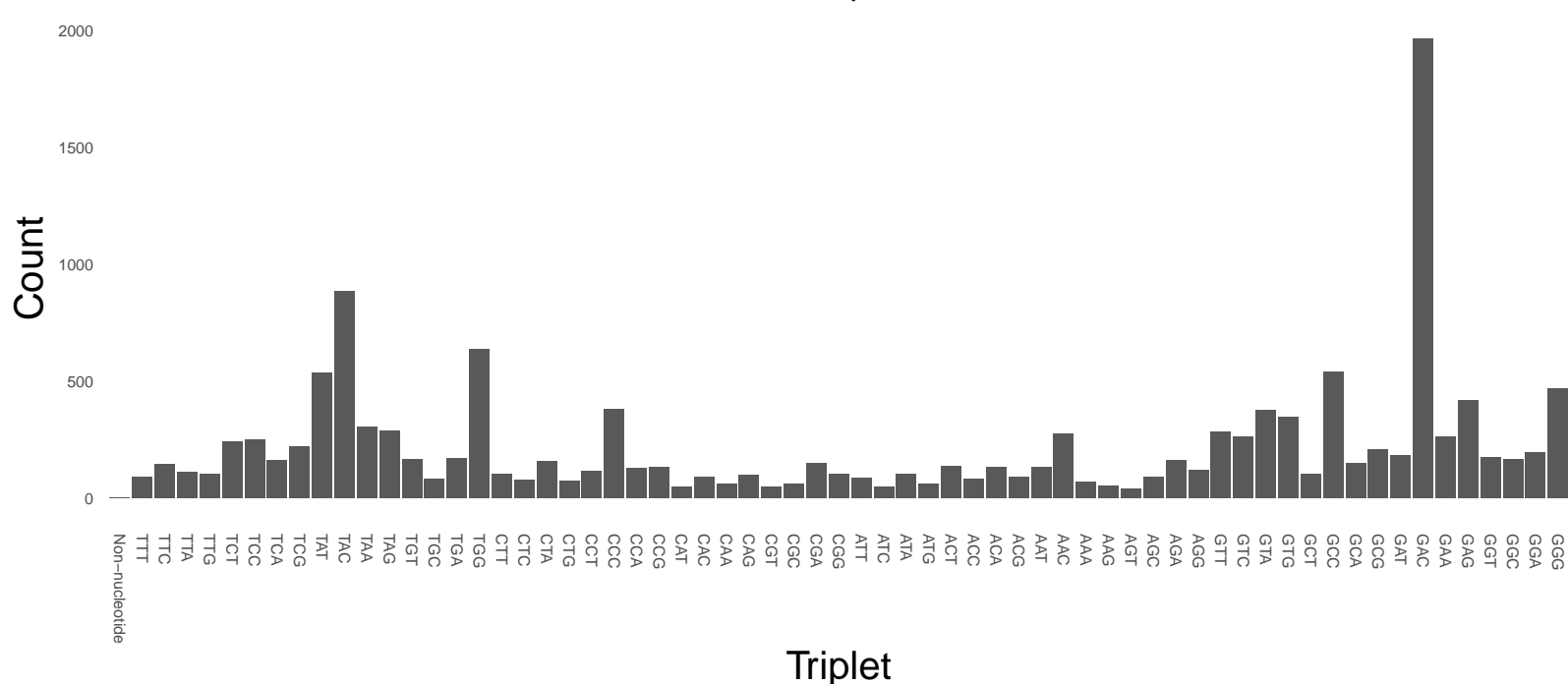
IGHV4S2*01_G248C– Final 3 nucleotides as a triplet



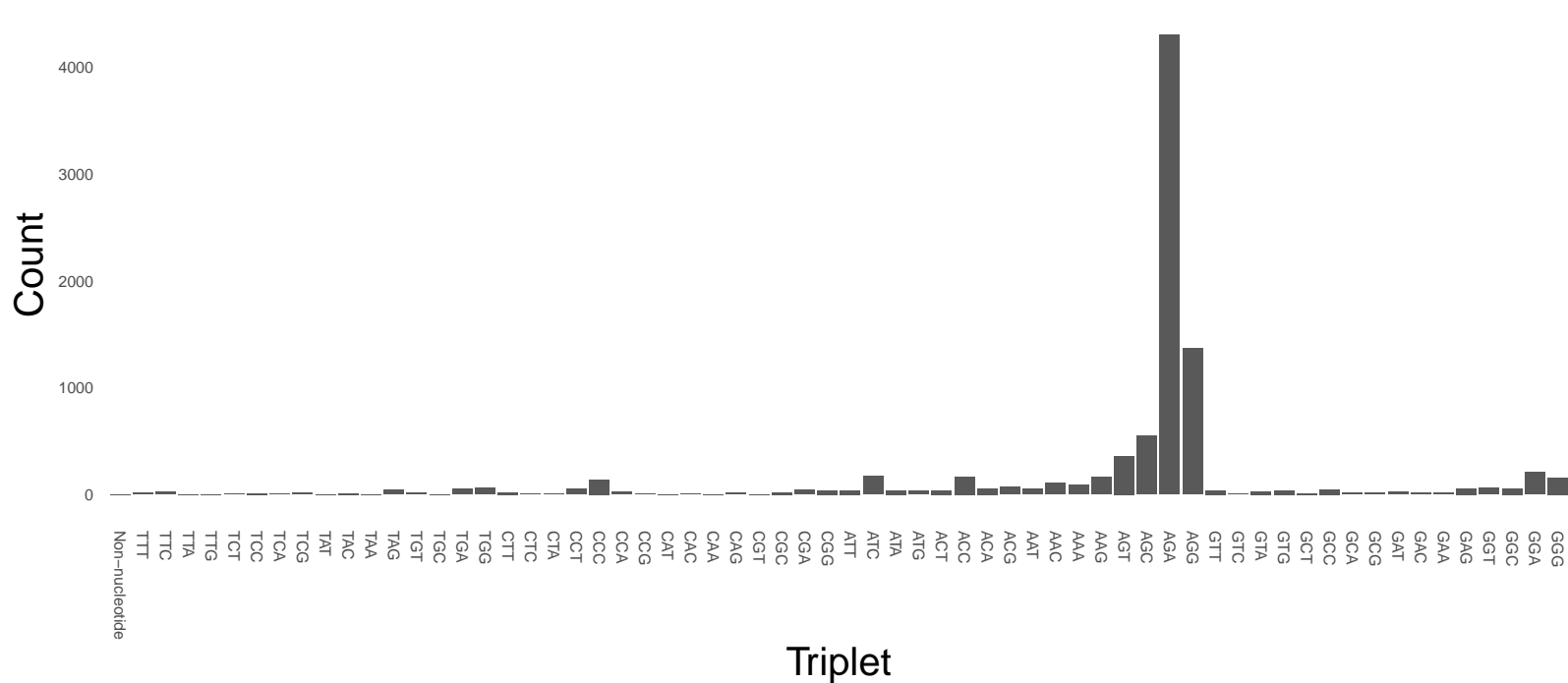
IGHV2–95*01_G289T– Final 3 nucleotides as a triplet



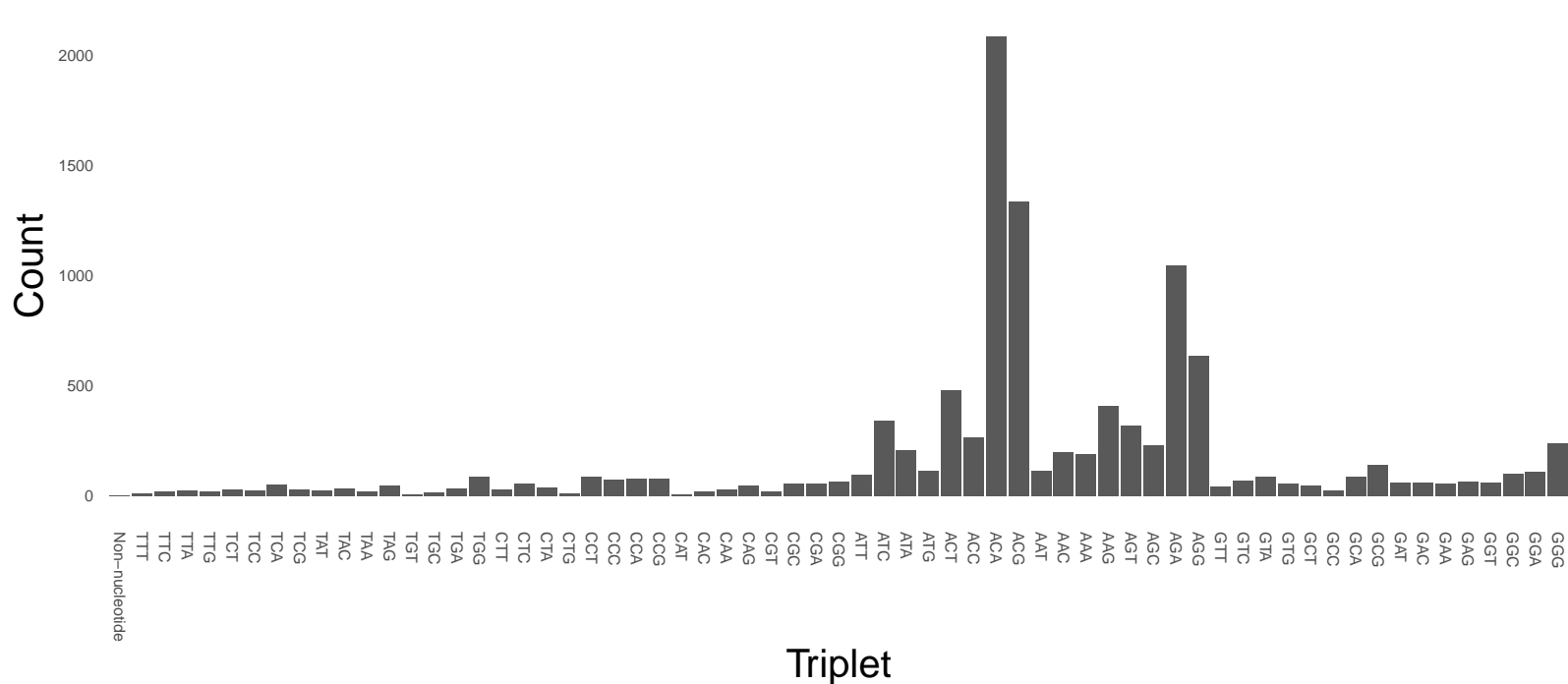
IGHV2S1*01_G289T– Final 3 nucleotides as a triplet



IGHV3-59*01_C69T_C86G_C118T_T136C_C163G_A172T_G175A_G176C_G197A_G198C_C2

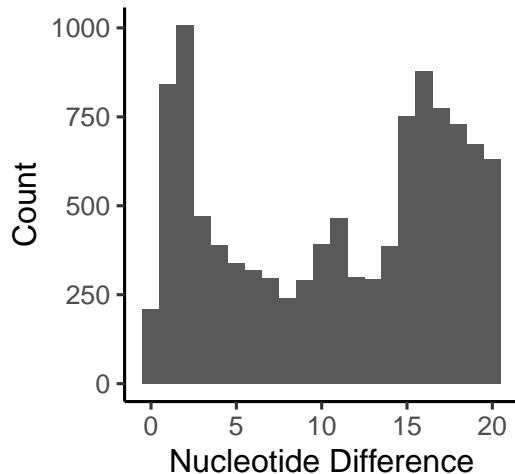


IGHV4-169*02_T60C_G61C_C259T– Final 3 nucleotides as a triplet



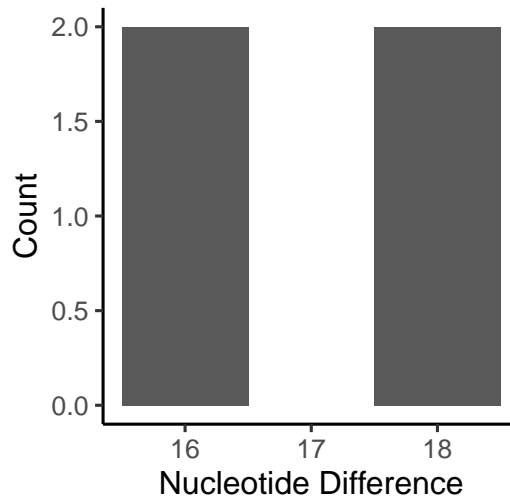
IGHV2S1*01_G289T

14004 sequences assigned
209 (1.5%) exact matches, in which:
204 unique CDR3
4 unique J



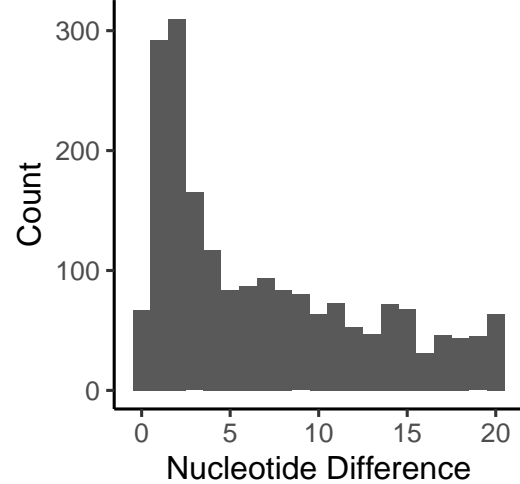
IGHV1-138*01

6 sequences assigned
No exact matches.



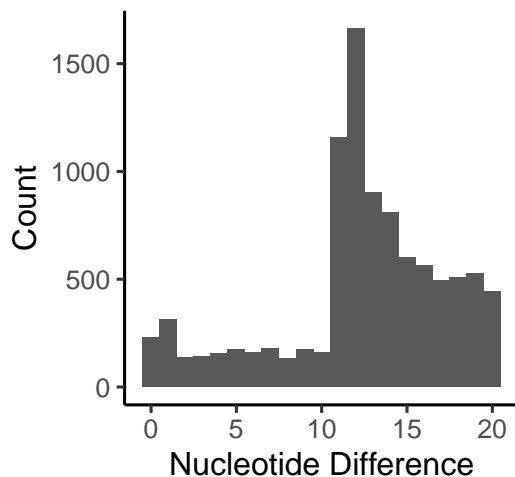
IGHV2-95*01_G289T

2346 sequences assigned
67 (2.9%) exact matches, in which:
65 unique CDR3
4 unique J



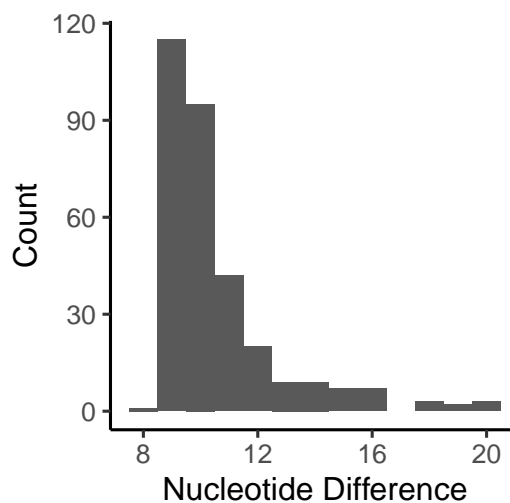
IGHV3S42*01_C27A_C3

15390 sequences assigned
228 (1.5%) exact matches, in which:
201 unique CDR3
3 unique J



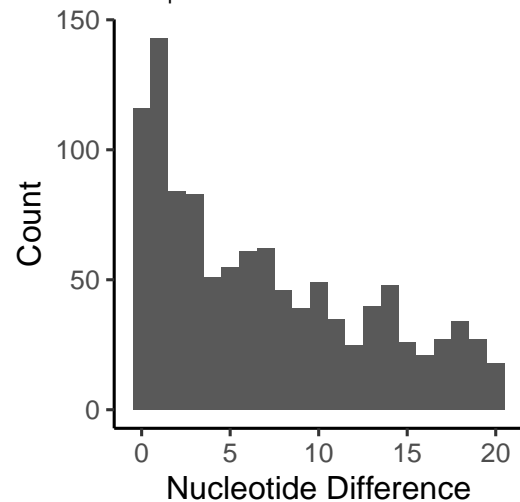
IGHV1-151*01

318 sequences assigned
No exact matches.



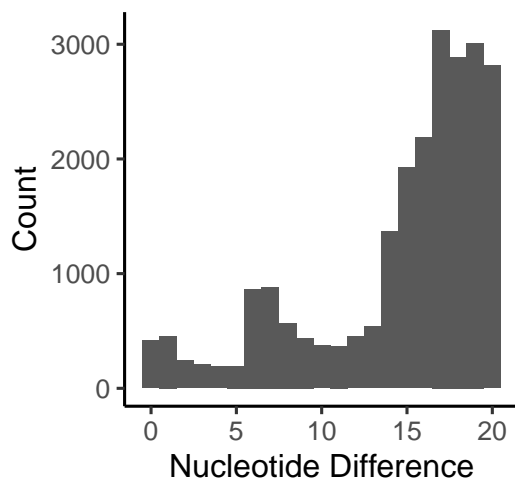
IGHV3-28*02_C118T_C1

1245 sequences assigned
116 (9.3%) exact matches, in which:
108 unique CDR3
4 unique J



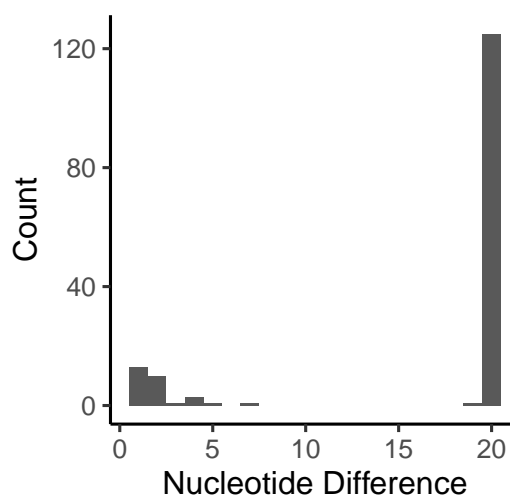
IGHV4S2*01_G248C

39225 sequences assigned
418 (1.1%) exact matches, in which:
391 unique CDR3
4 unique J



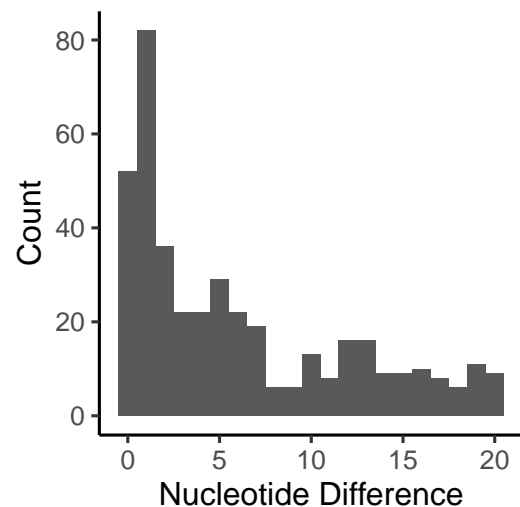
IGHV1-156D*01

407 sequences assigned
No exact matches.



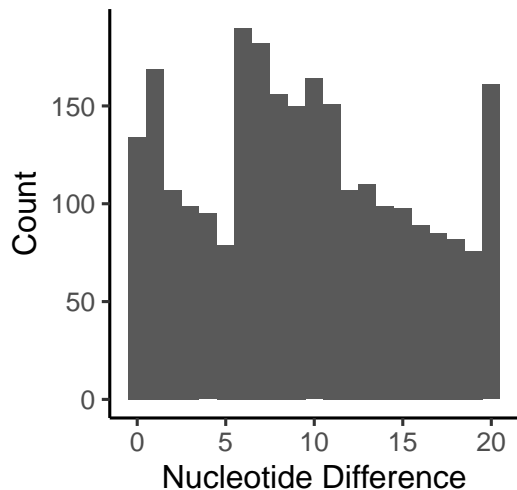
IGHV3-28*02_C118T_G2

508 sequences assigned
52 (10.2%) exact matches, in which:
47 unique CDR3
3 unique J



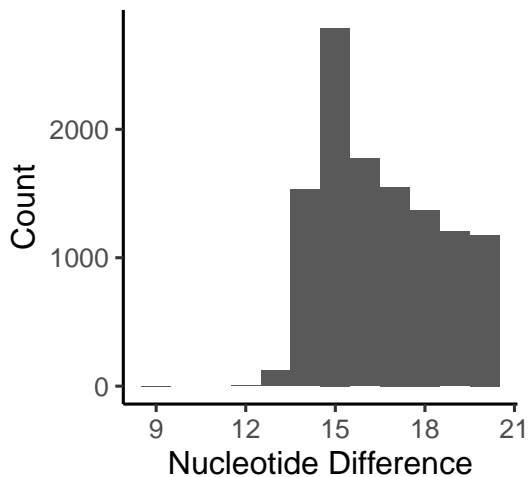
IGHV3-38*01_G106A_C7

17090 sequences assigned
134 (0.8%) exact matches, in which:
124 unique CDR3
4 unique J



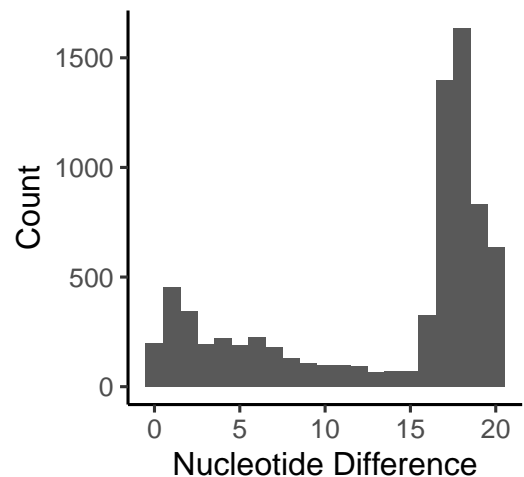
IGHV3-108*01

21425 sequences assigned
No exact matches.



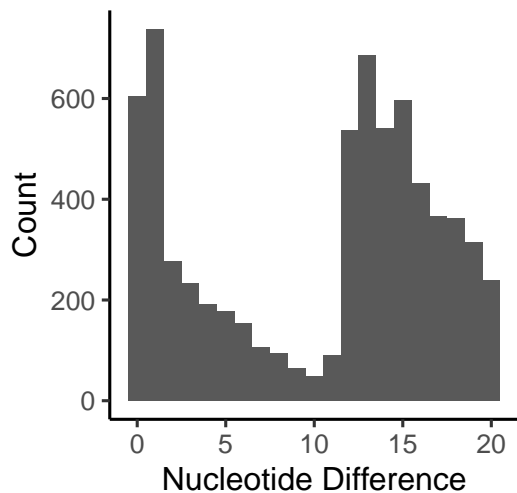
IGHV4-169*02_T60C_G

10598 sequences assigned
197 (1.9%) exact matches, in which:
181 unique CDR3
4 unique J



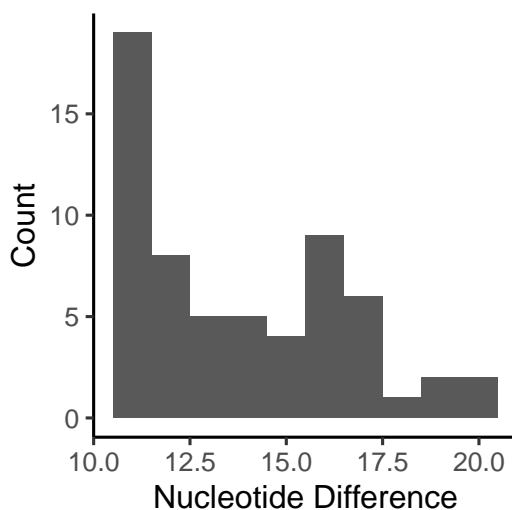
IGHV3-59*01_C69T_C86

9120 sequences assigned
604 (6.6%) exact matches, in which:
530 unique CDR3
4 unique J



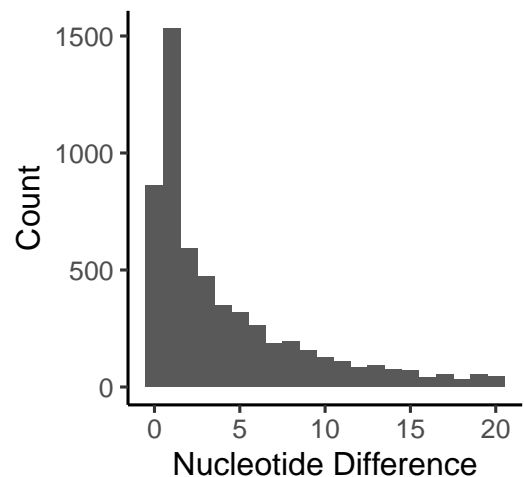
IGHV3-117*01

697 sequences assigned
No exact matches.



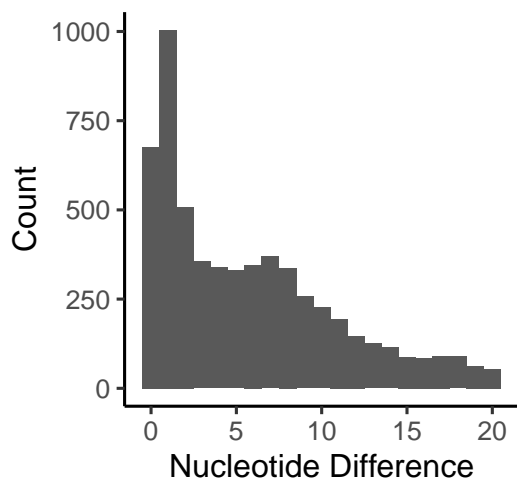
IGHV5-20*02_A141G_C

5997 sequences assigned
861 (14.4%) exact matches, in which:
696 unique CDR3
4 unique J



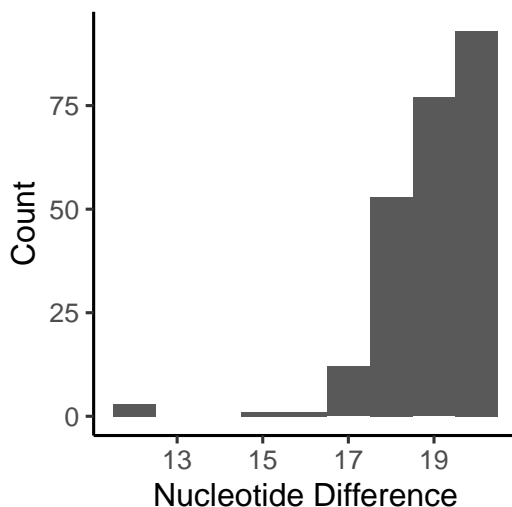
IGHV3-103*01_T19A_G

8814 sequences assigned
676 (7.7%) exact matches, in which:
566 unique CDR3
4 unique J



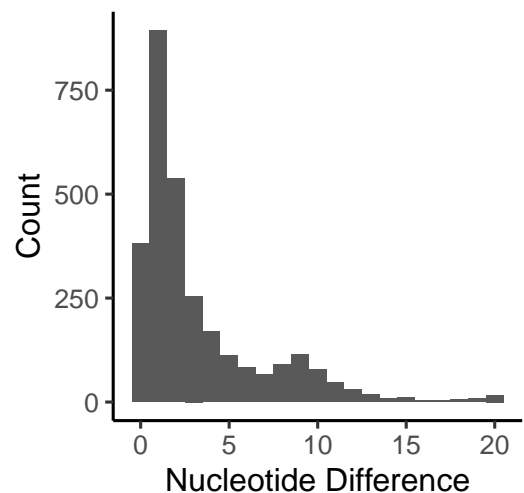
IGHV3-137*01

4914 sequences assigned
No exact matches.



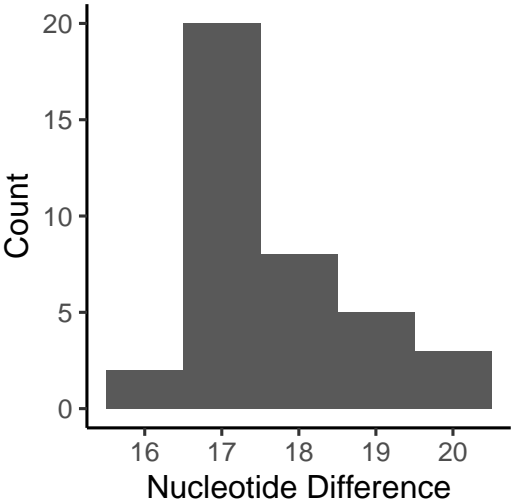
IGHV5-43*02_A59G

2981 sequences assigned
382 (12.8%) exact matches, in which:
308 unique CDR3
4 unique J

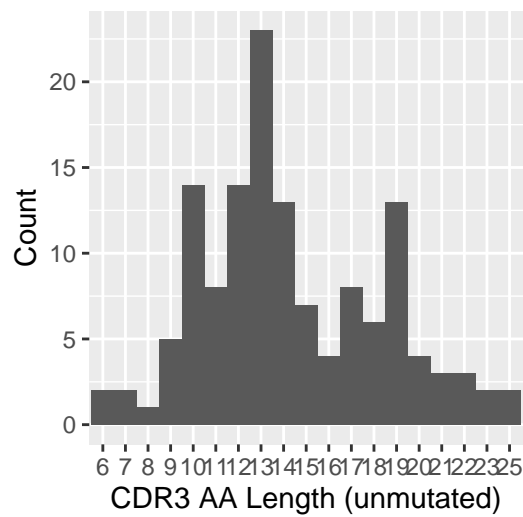


IGHV7-94*01

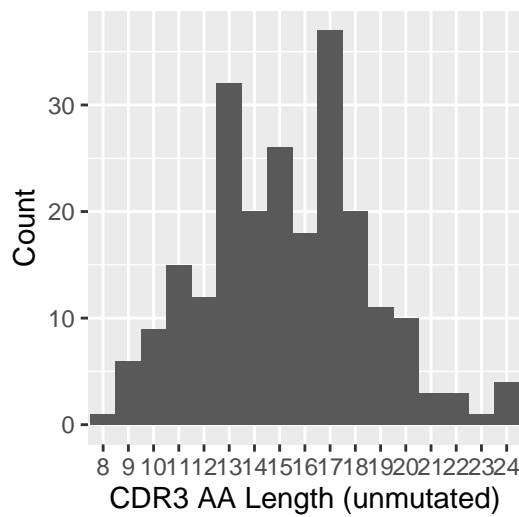
62 sequences assigned
No exact matches.



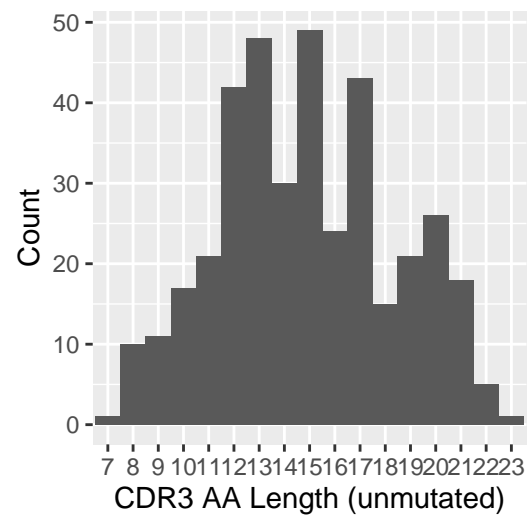
IGHV3-38*01_G106A_C109



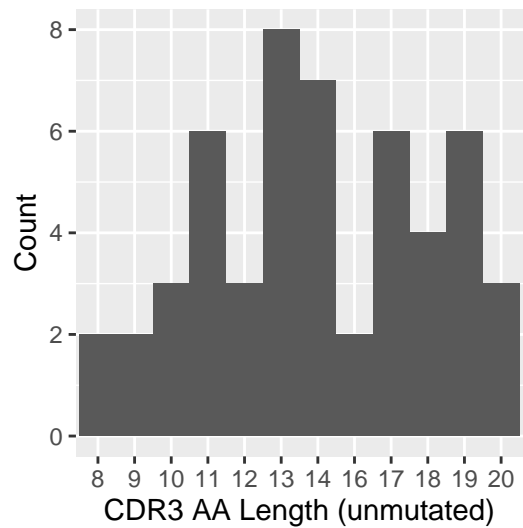
IGHV3S42*01_C27A_C38T



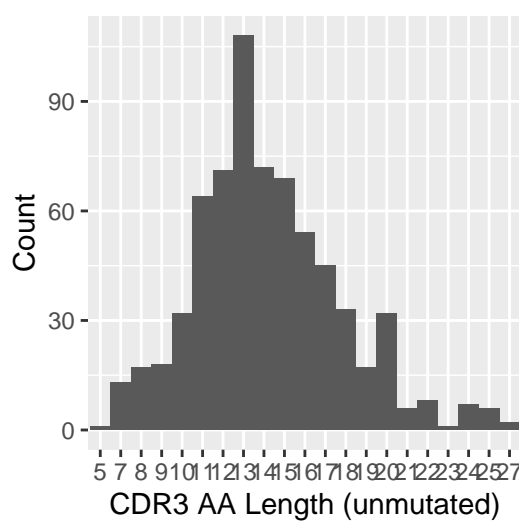
IGHV5-43*02_A59G



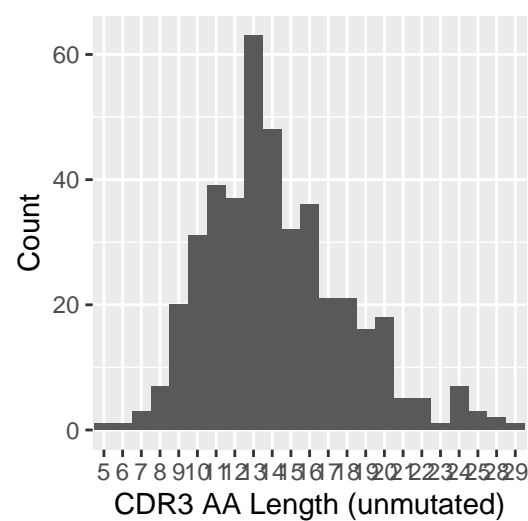
IGHV3-28*02_C118T_G277A



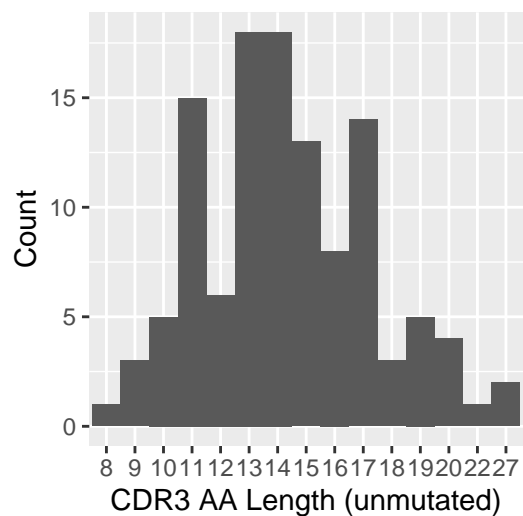
IGHV3-103*01_T19A_G24A



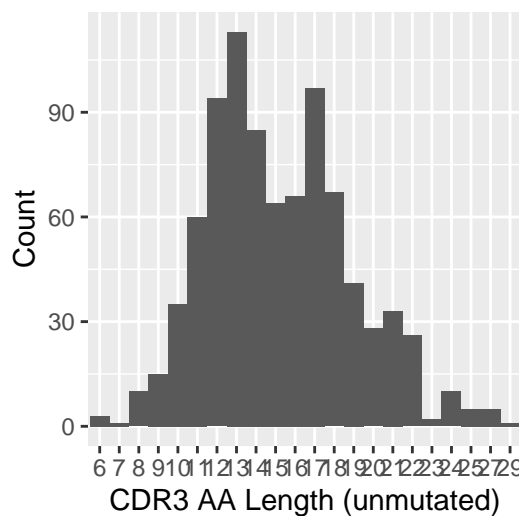
IGHV4S2*01_G248C



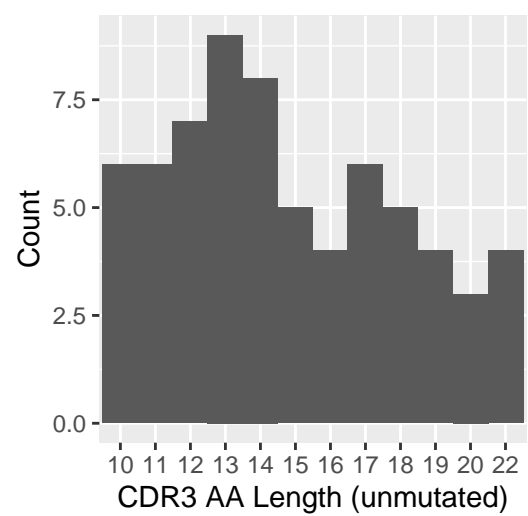
IGHV3-28*02_C118T_C176G



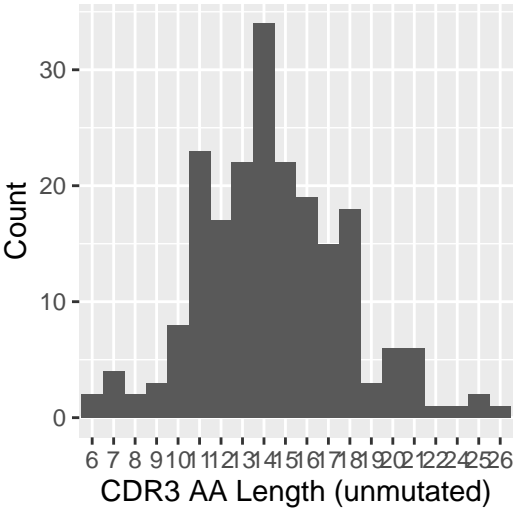
IGHV5-20*02_A141G_C312



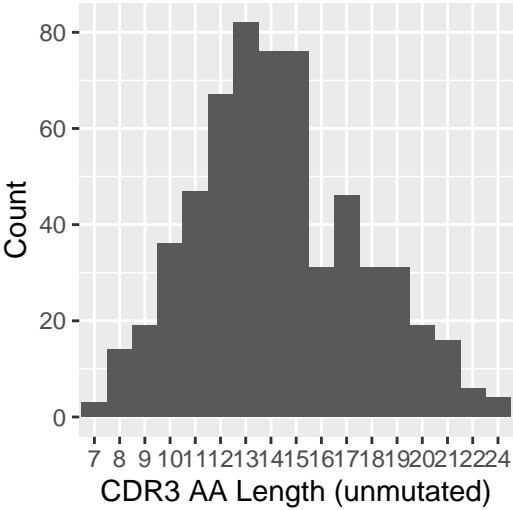
IGHV2-95*01_G289T



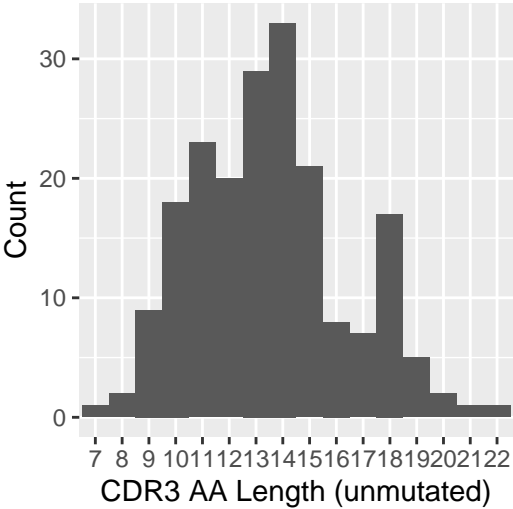
IGHV2S1*01_G289T

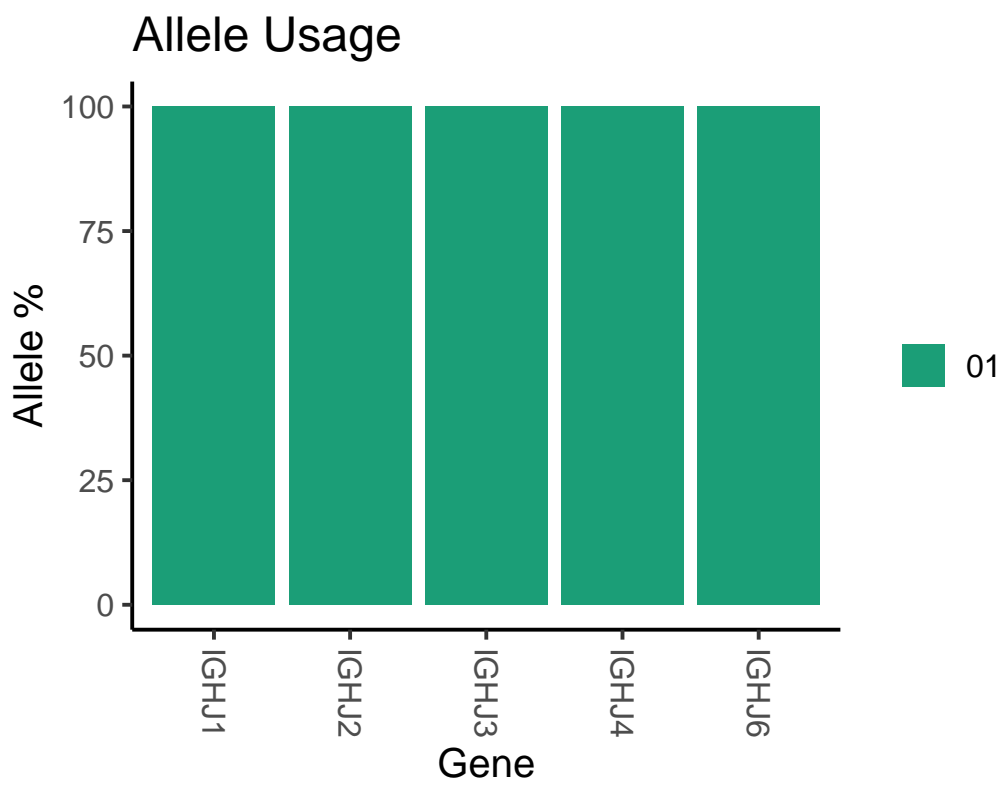


IGHV3-59*01_C69T_C86G_C118T_T136C_C163G_A172T_G175A_G176C_G197A_G198C_C200G



IGHV4-169*02_T60C_G61C_C259T





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.