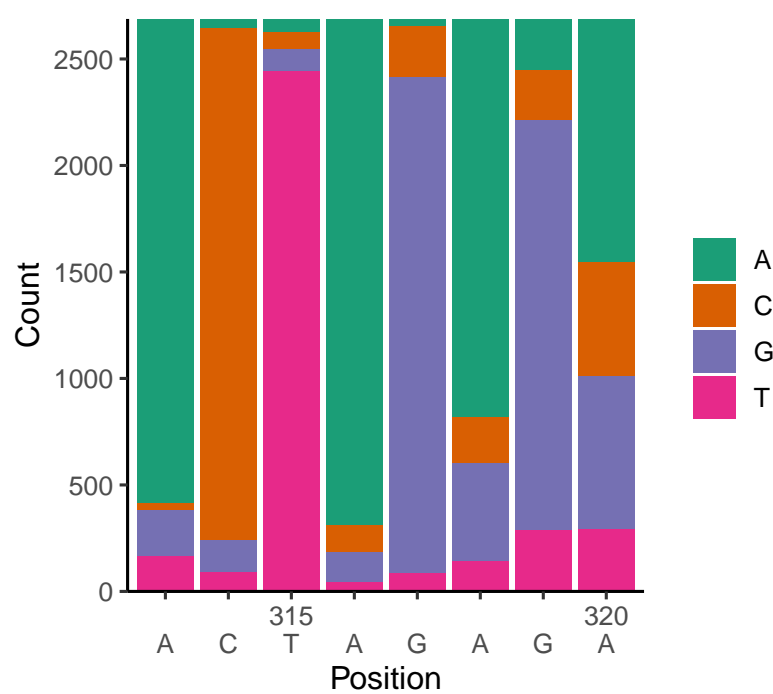
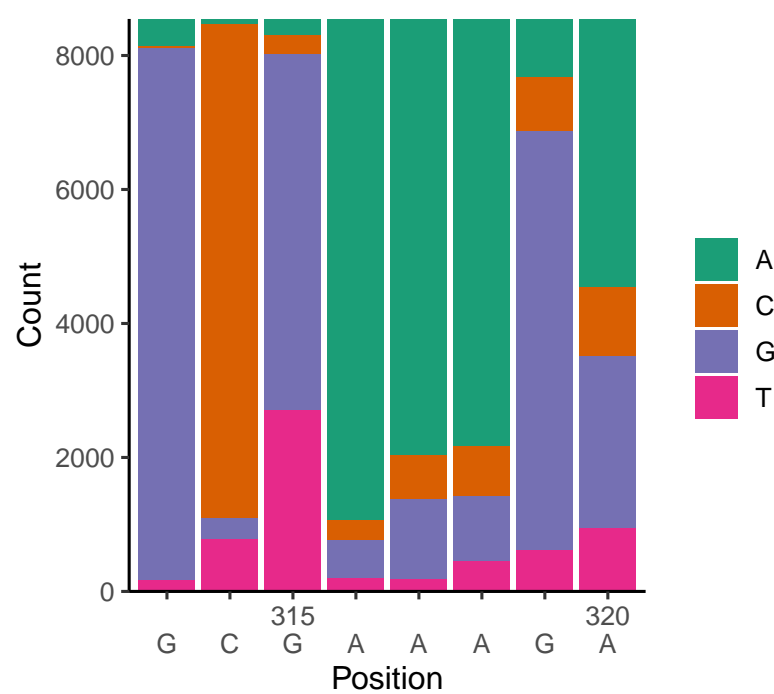


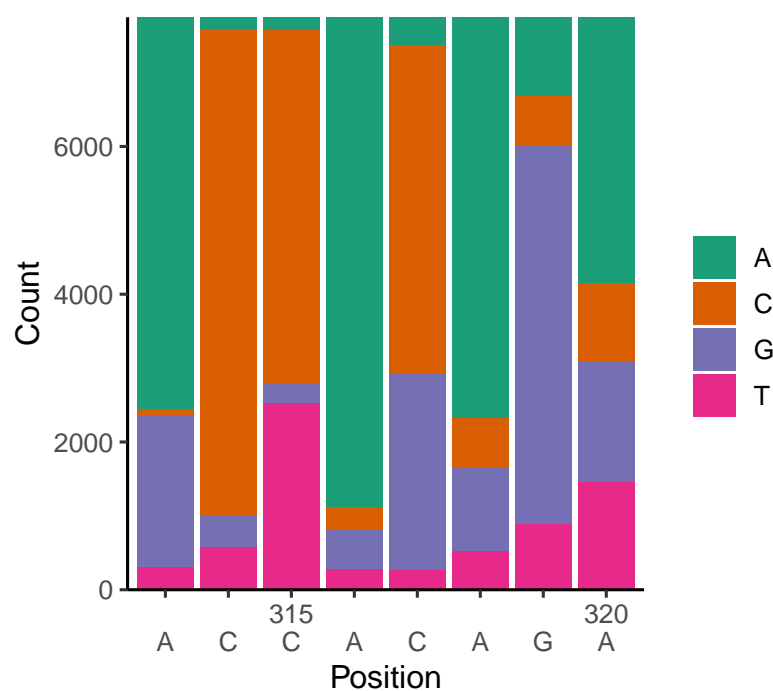
Gene IGHV3-100*01_A132G



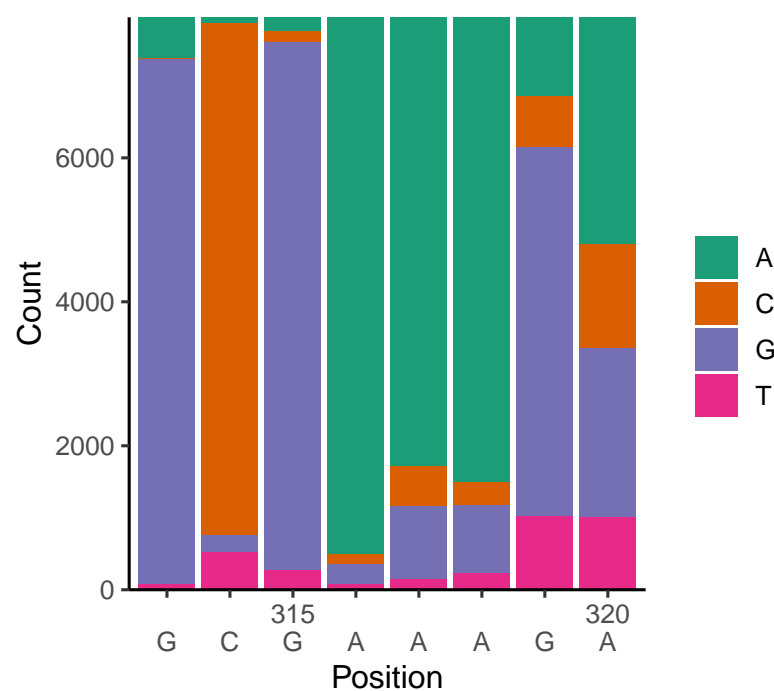
Gene IGHV3-103*01_G51A_A170G



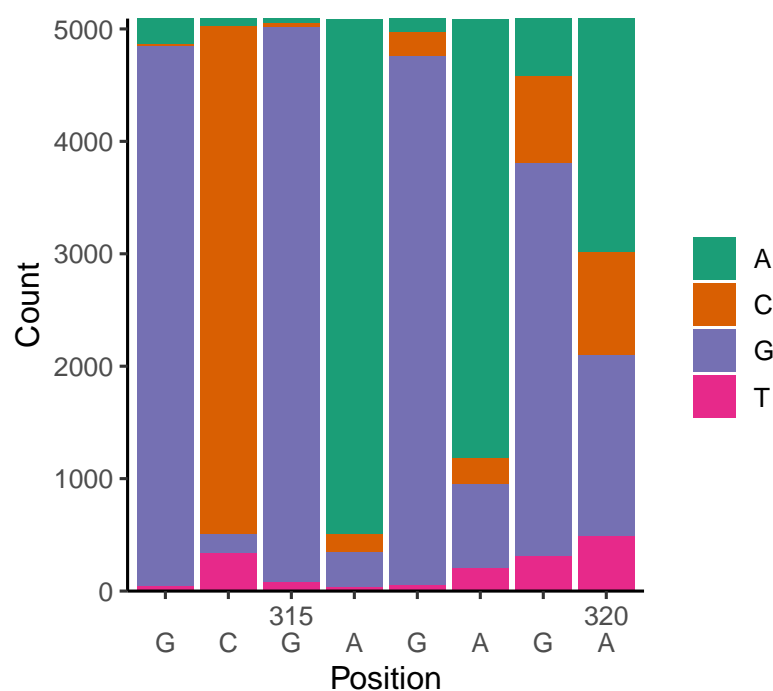
Gene IGHV3-30*02_C141G_C183T



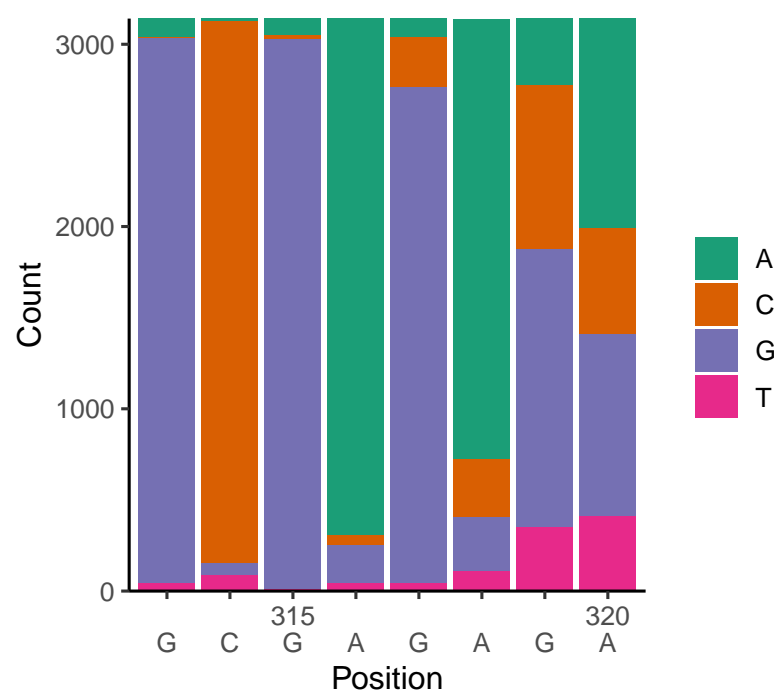
Gene IGHV3-103*01_G24A_C27A_C38



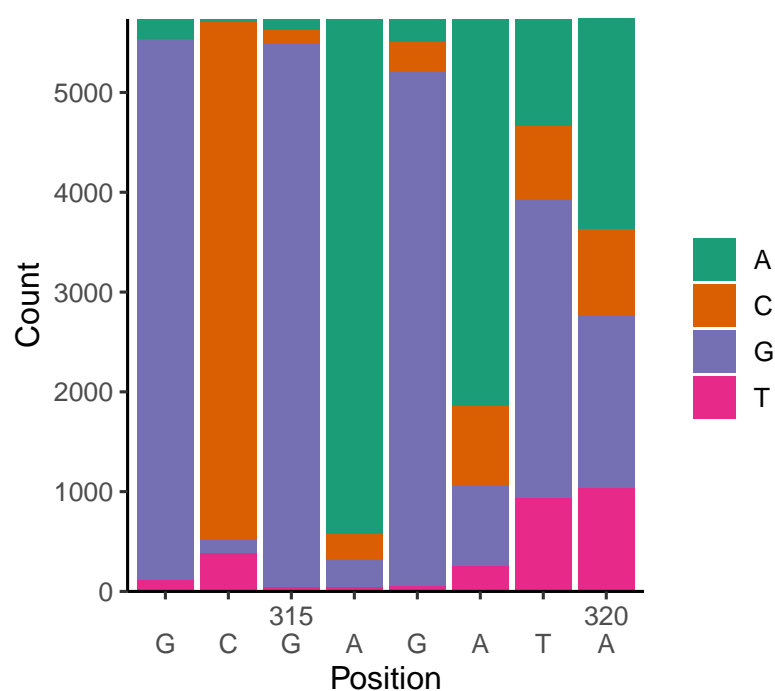
Gene IGHV3-54*02_G170C



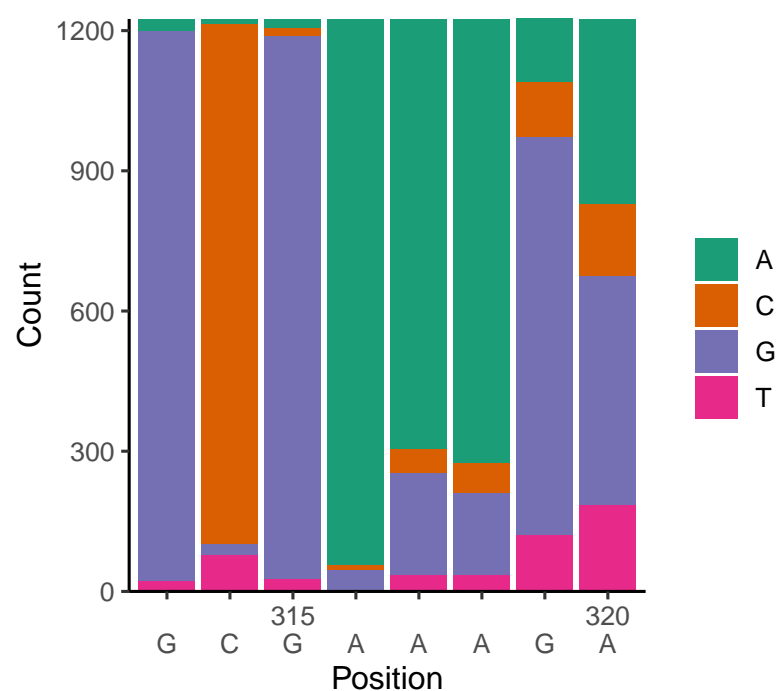
Gene IGHV4-73*01_G147A



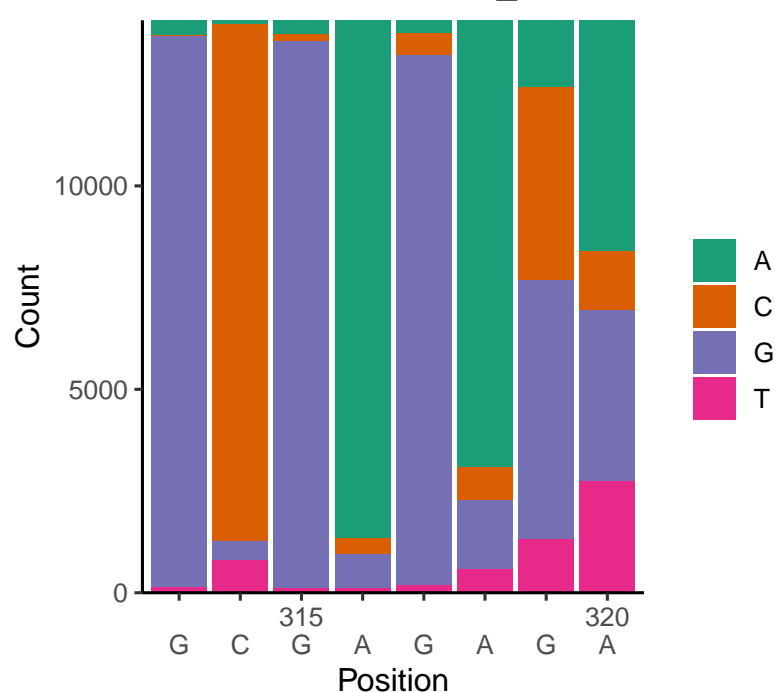
Gene IGHV4-80*01_C83G_A88T_T105C



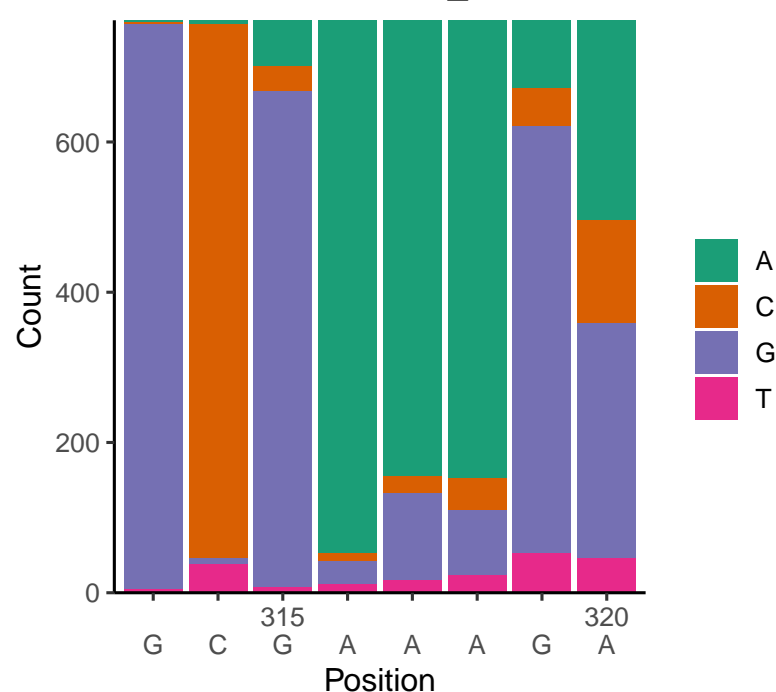
Gene IGHV5-20*02_A295T_C312T



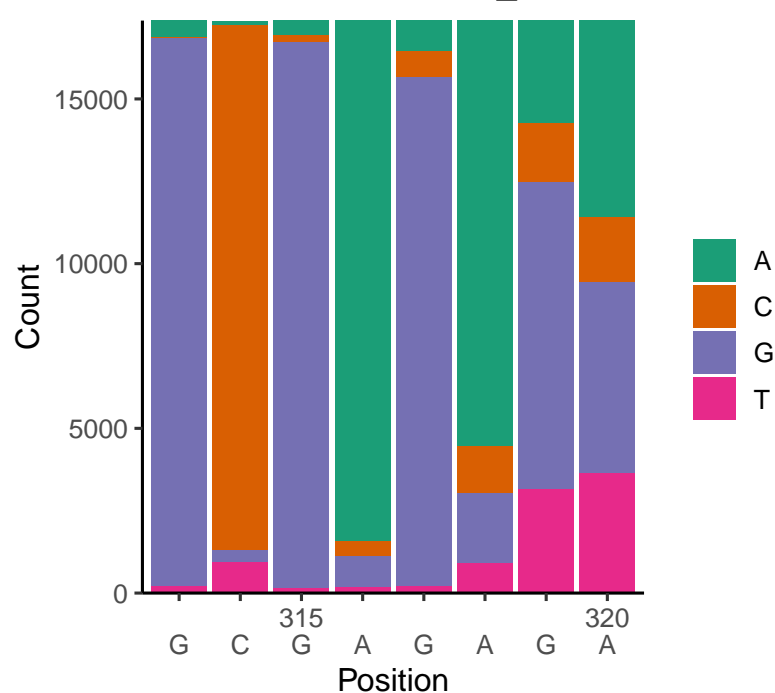
Gene IGHV4-127*01_G169A



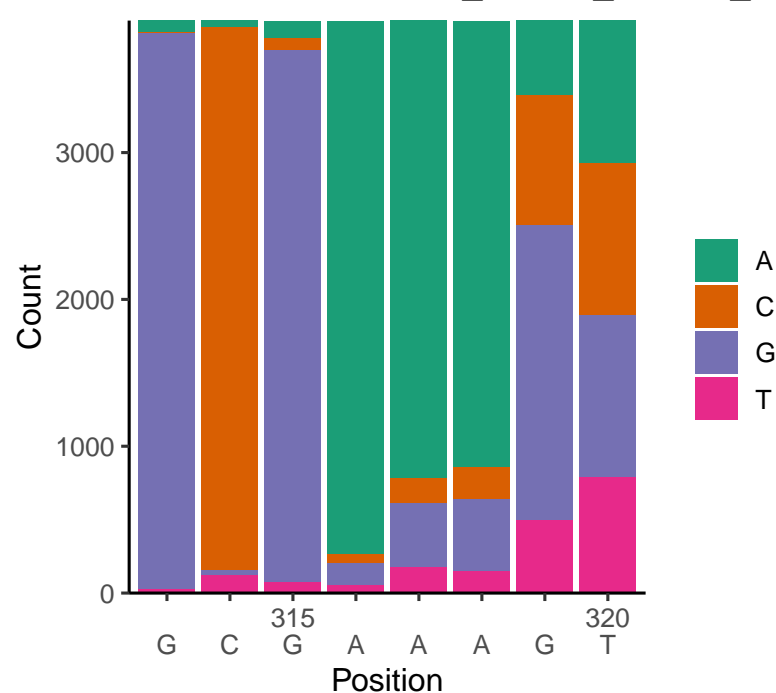
Gene IGHV5-20*02_C312T



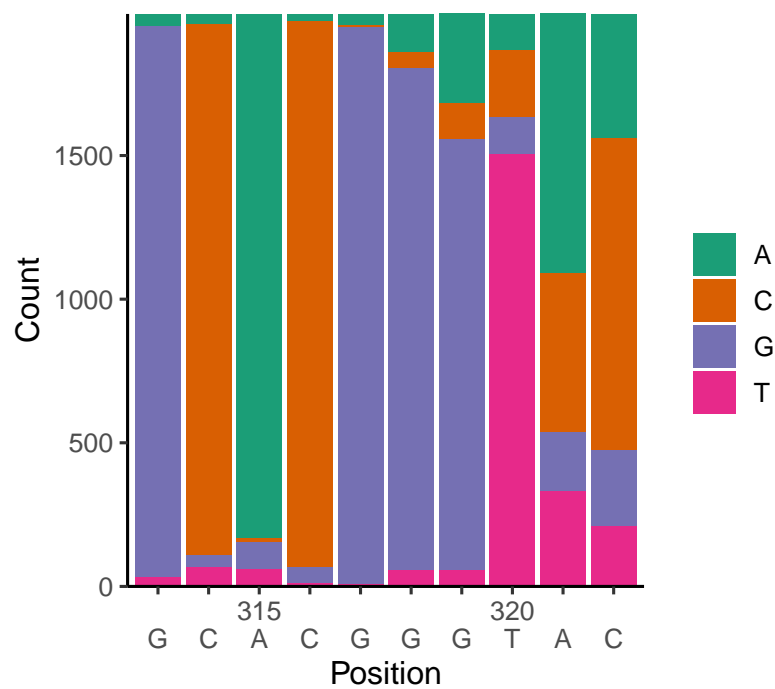
Gene IGHV4-173*01_C47T



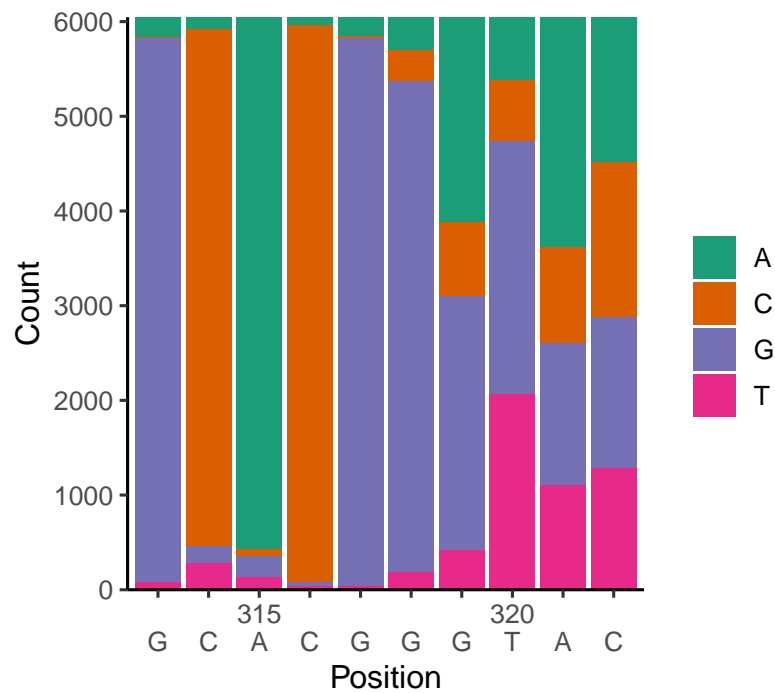
Gene IGHV5-43*01_A109T_G110A_G111A



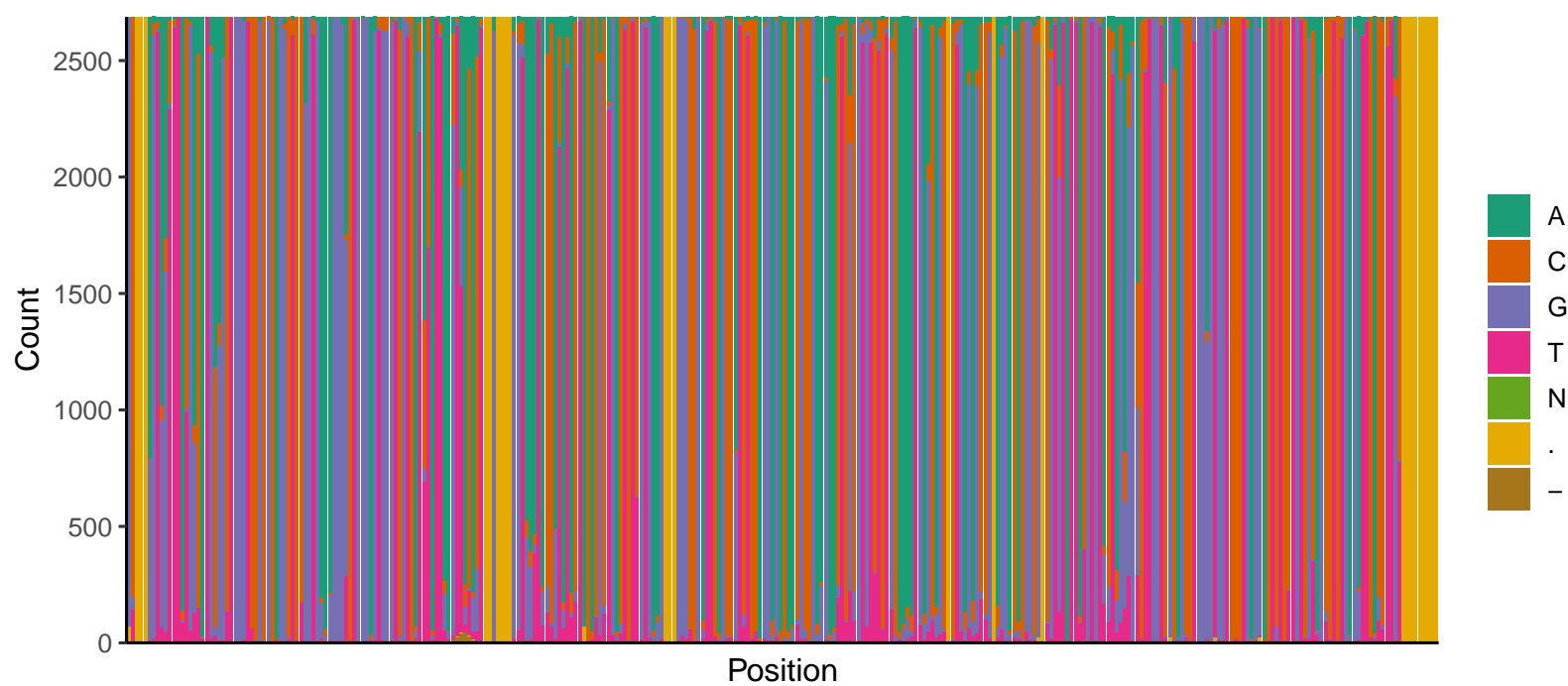
Gene IGHV2-95*01_G289T



Gene IGHV2S1*01_G289T



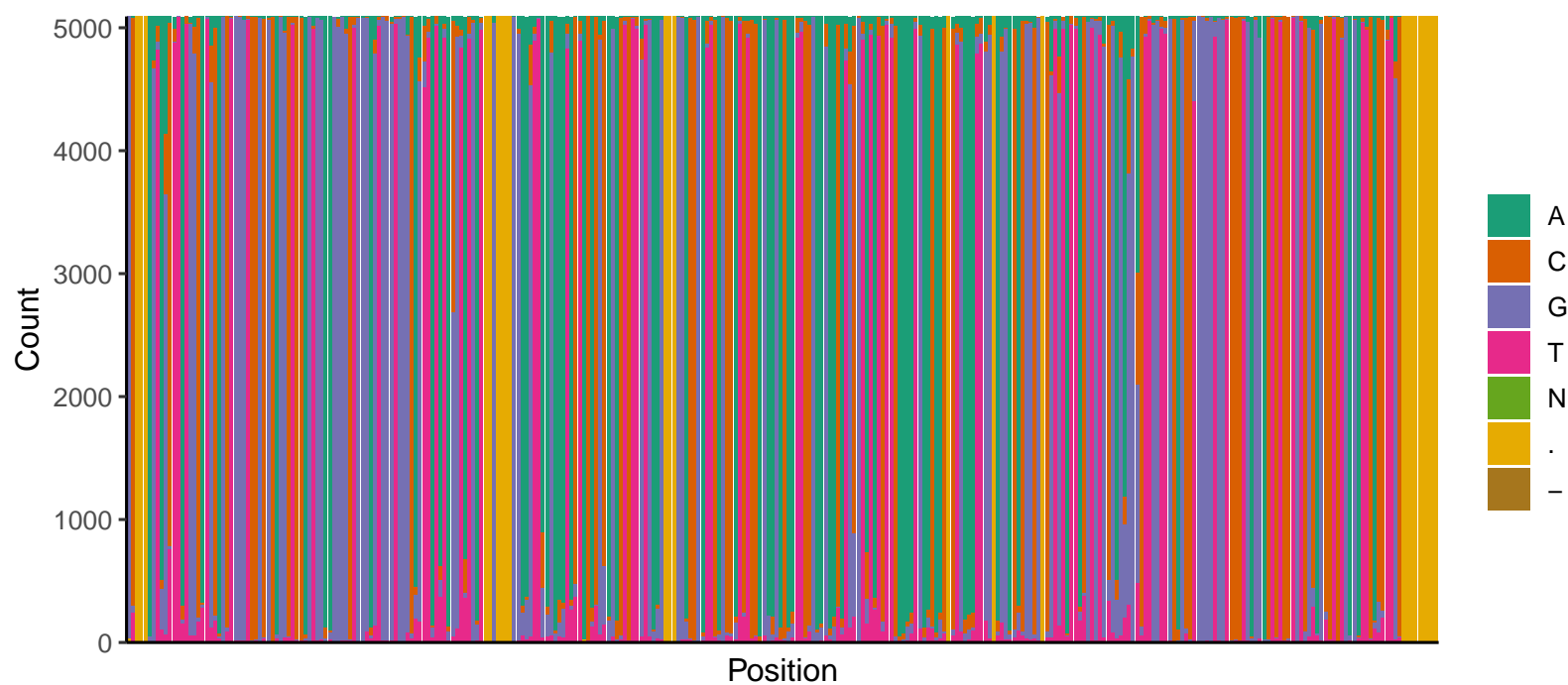
Gene IGHV3-100*01_A132G



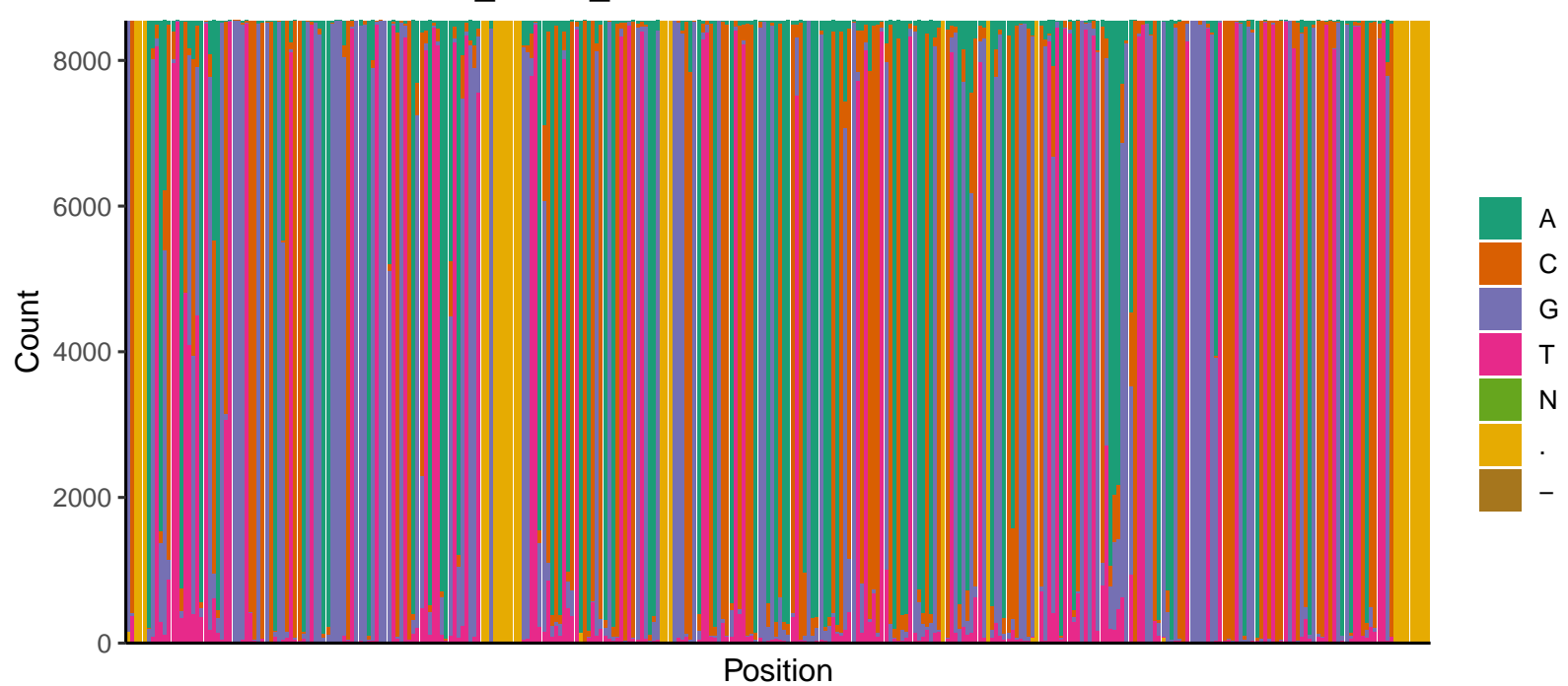
Gene IGHV3-30*02_C141G_C183T



Gene IGHV3-54*02_G170C



Gene IGHV3-103*01_G51A_A170G



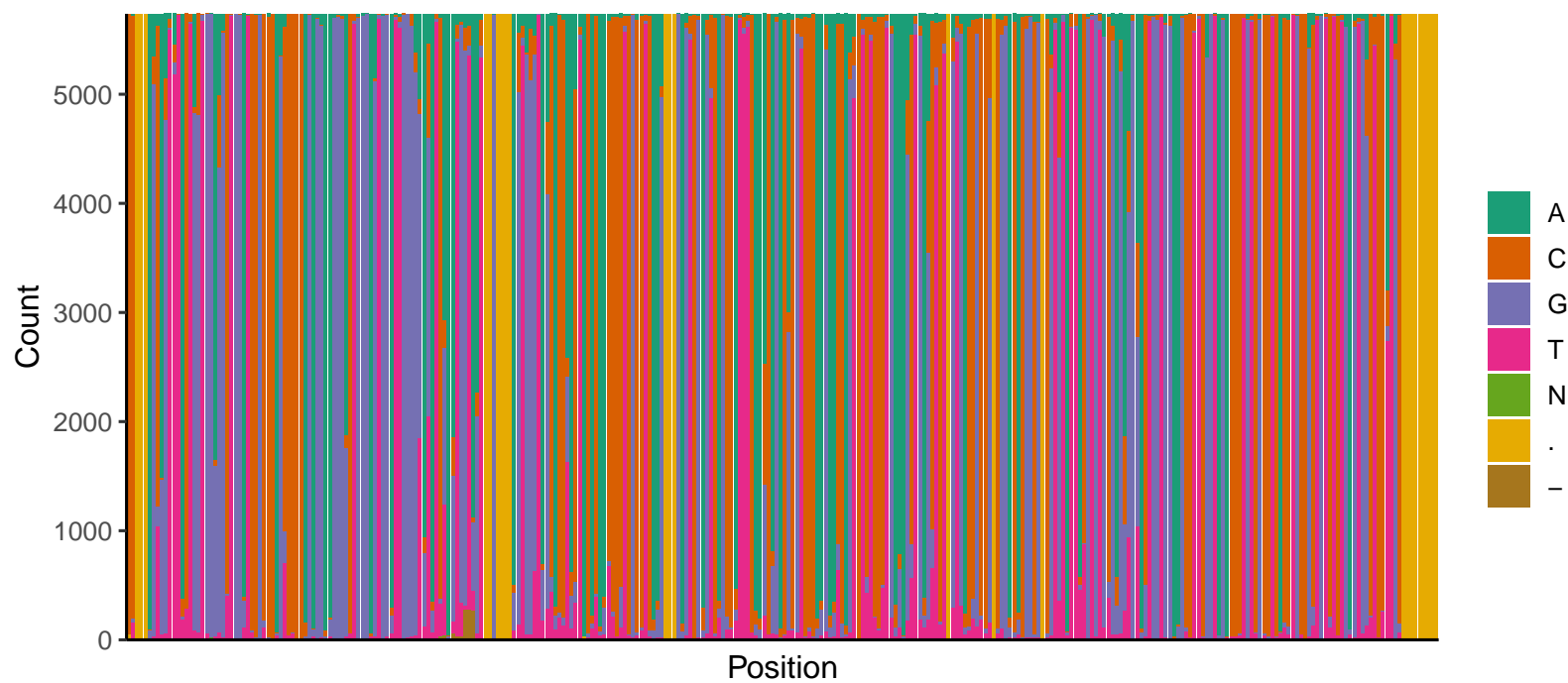
Gene IGHV3-103*01_G24A_C27A_C38T_A39C_A40C_C113G_T114C_C118A_A119G



Gene IGHV4-73*01_G147A



Gene IGHV4-80*01_C83G_A88T_T105C_T189G_T196A



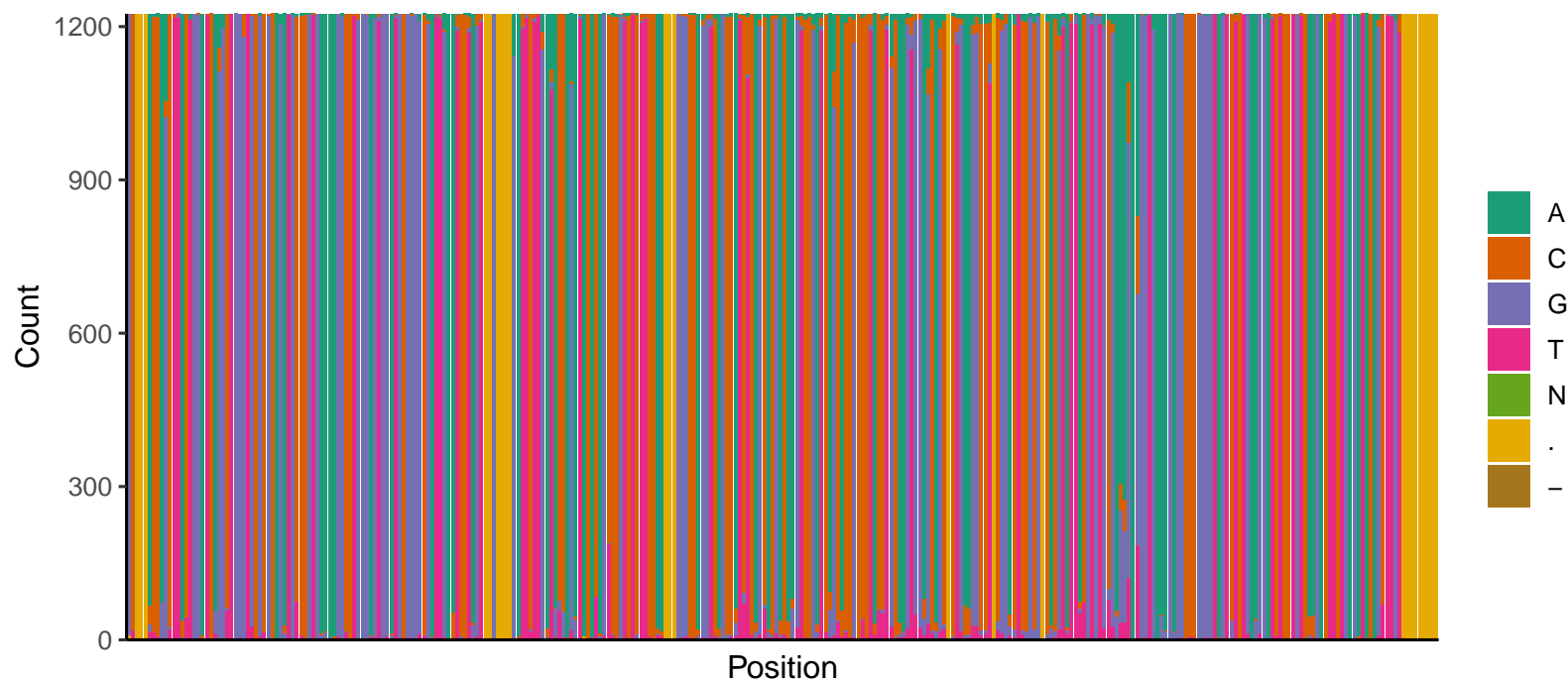
Gene IGHV4-127*01_G169A



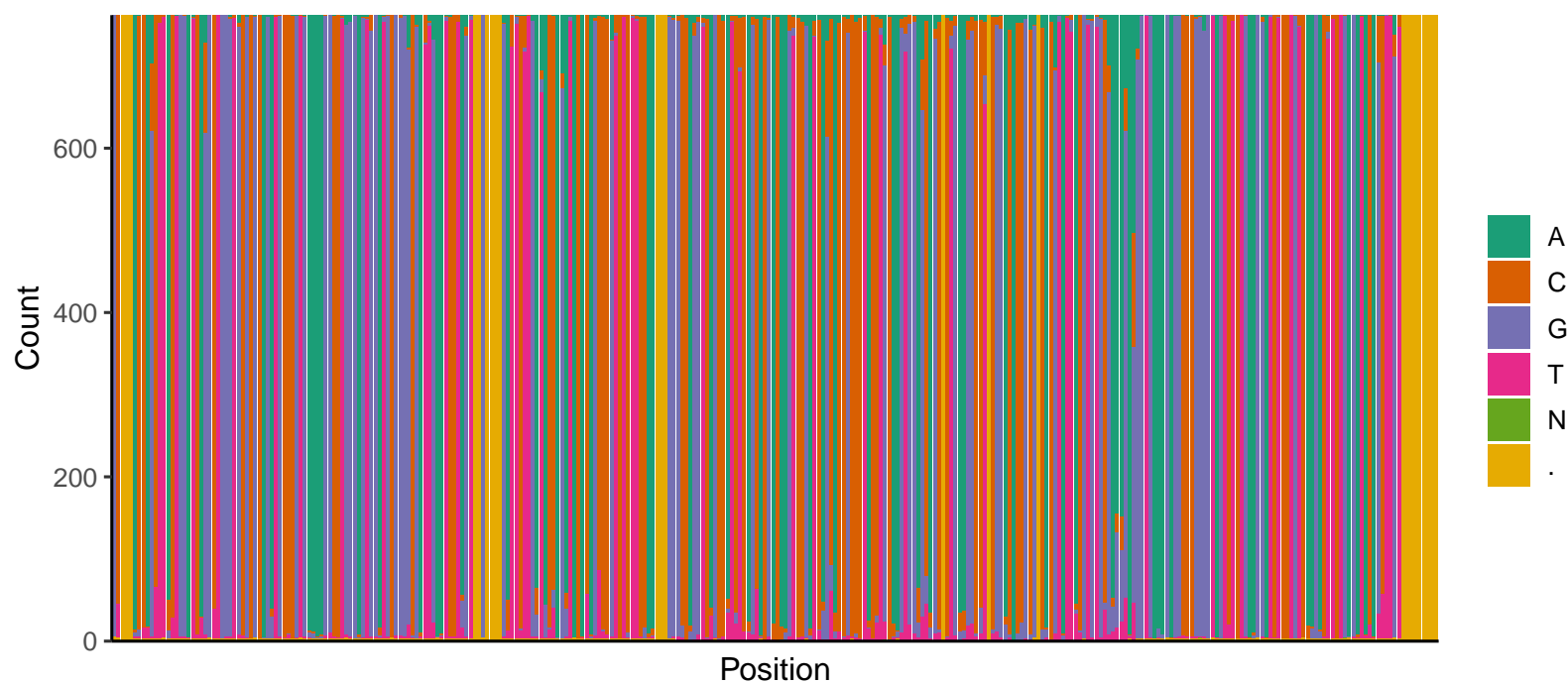
Gene IGHV4-173*01_C47T



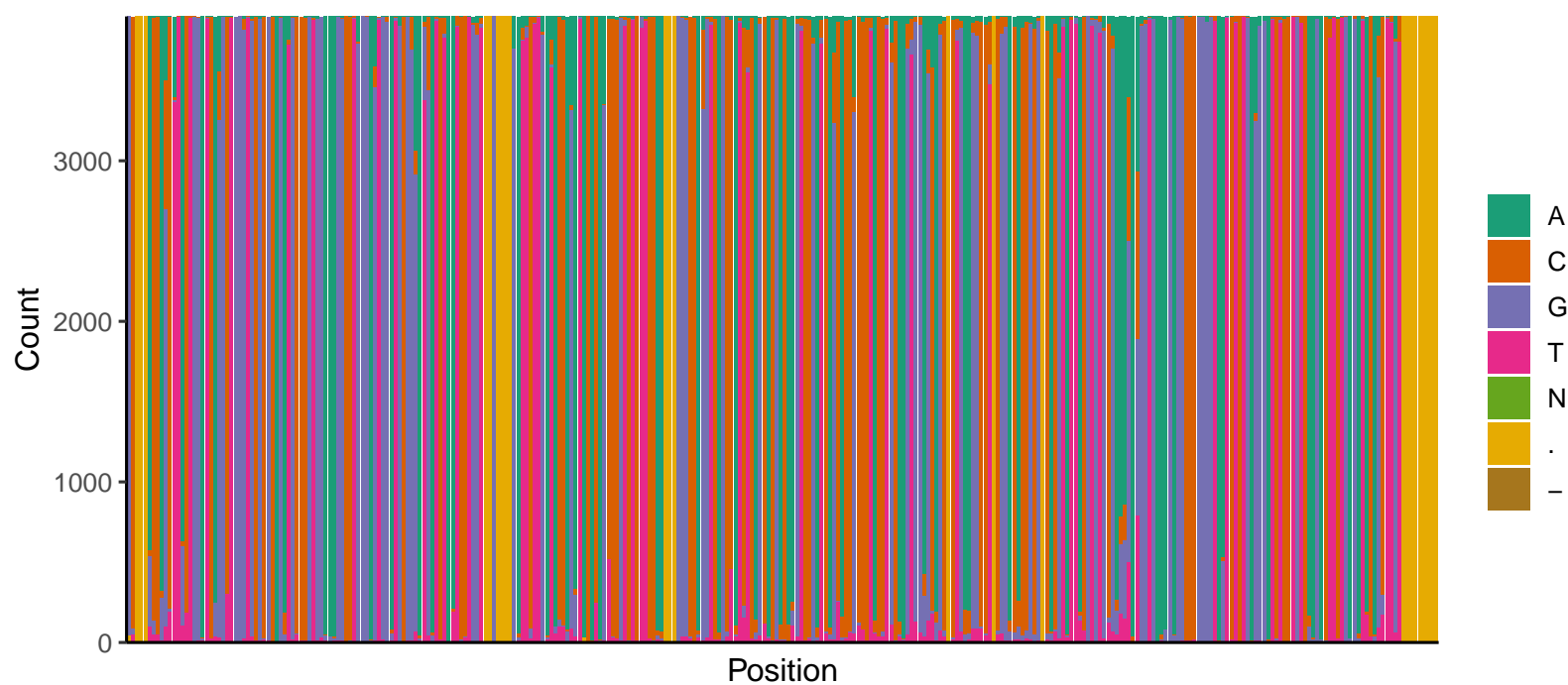
Gene IGHV5-20*02_A295T_C312T



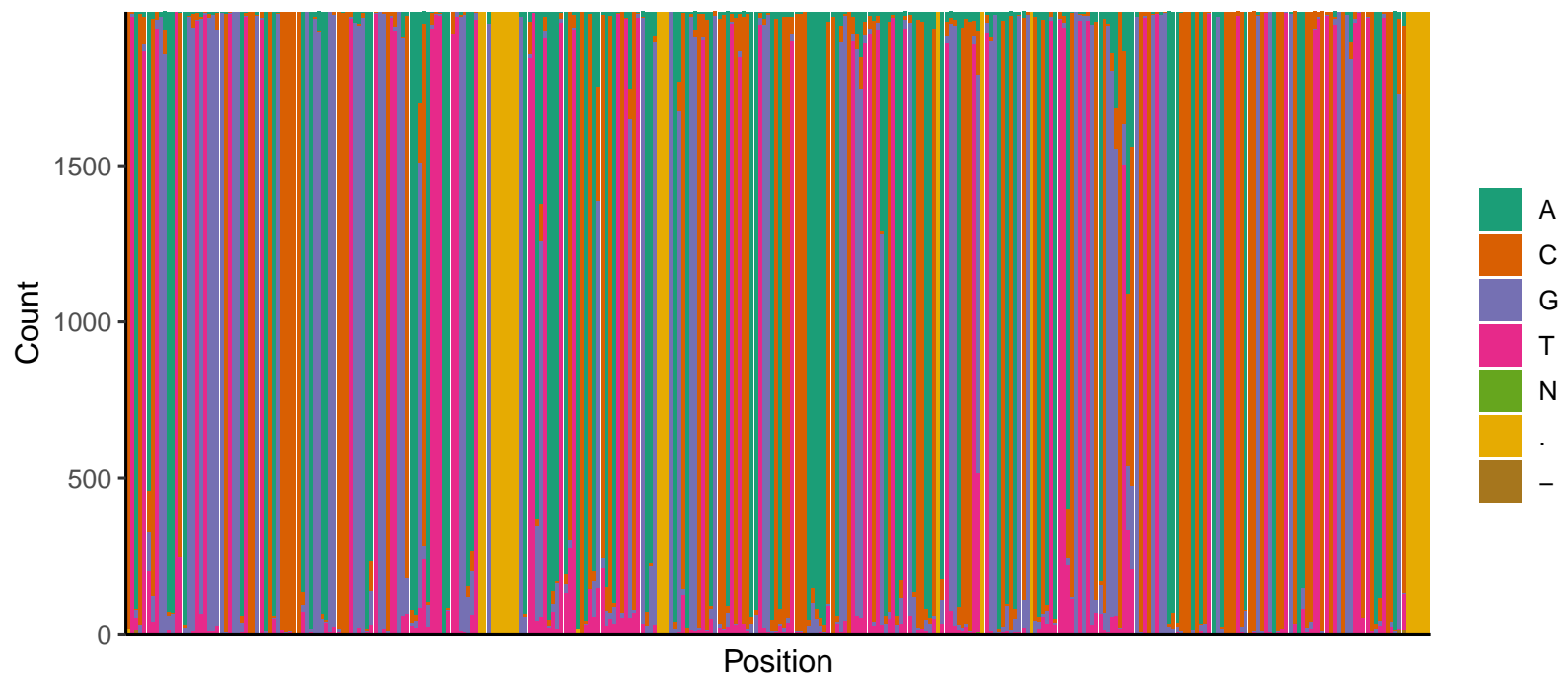
Gene IGHV5-20*02_C312T



Gene IGHV5-43*01_A109T_G110A_G164T_C165G_A203G_C225G_T231C_A259G



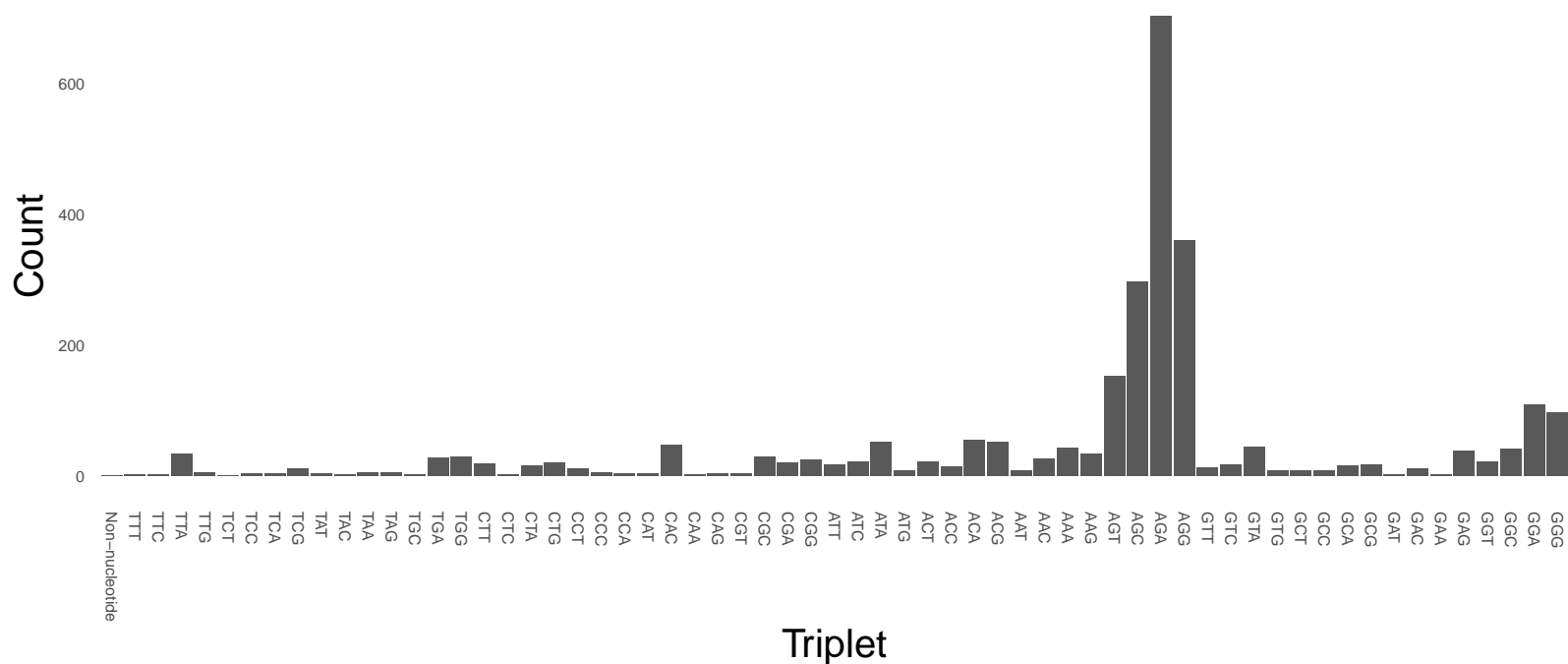
Gene IGHV2-95*01_G289T



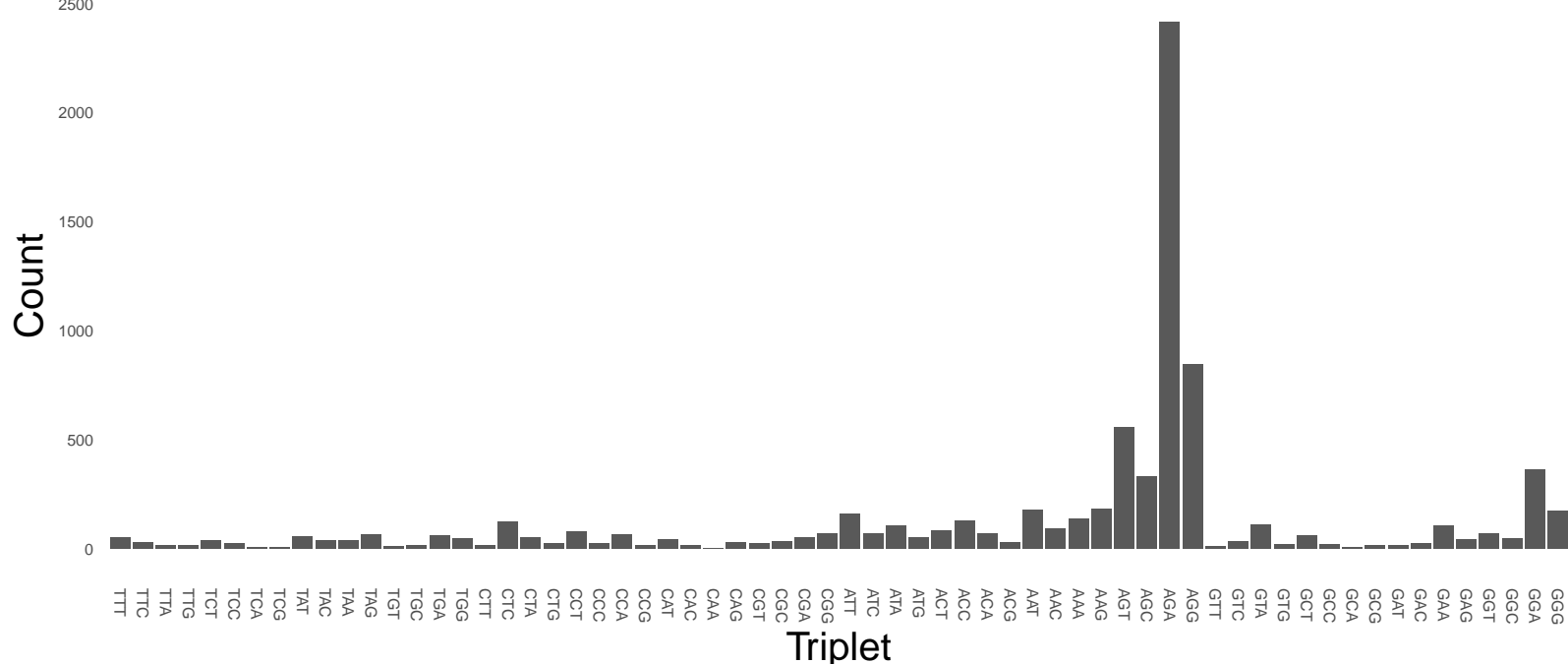
Gene IGHV2S1*01_G289T



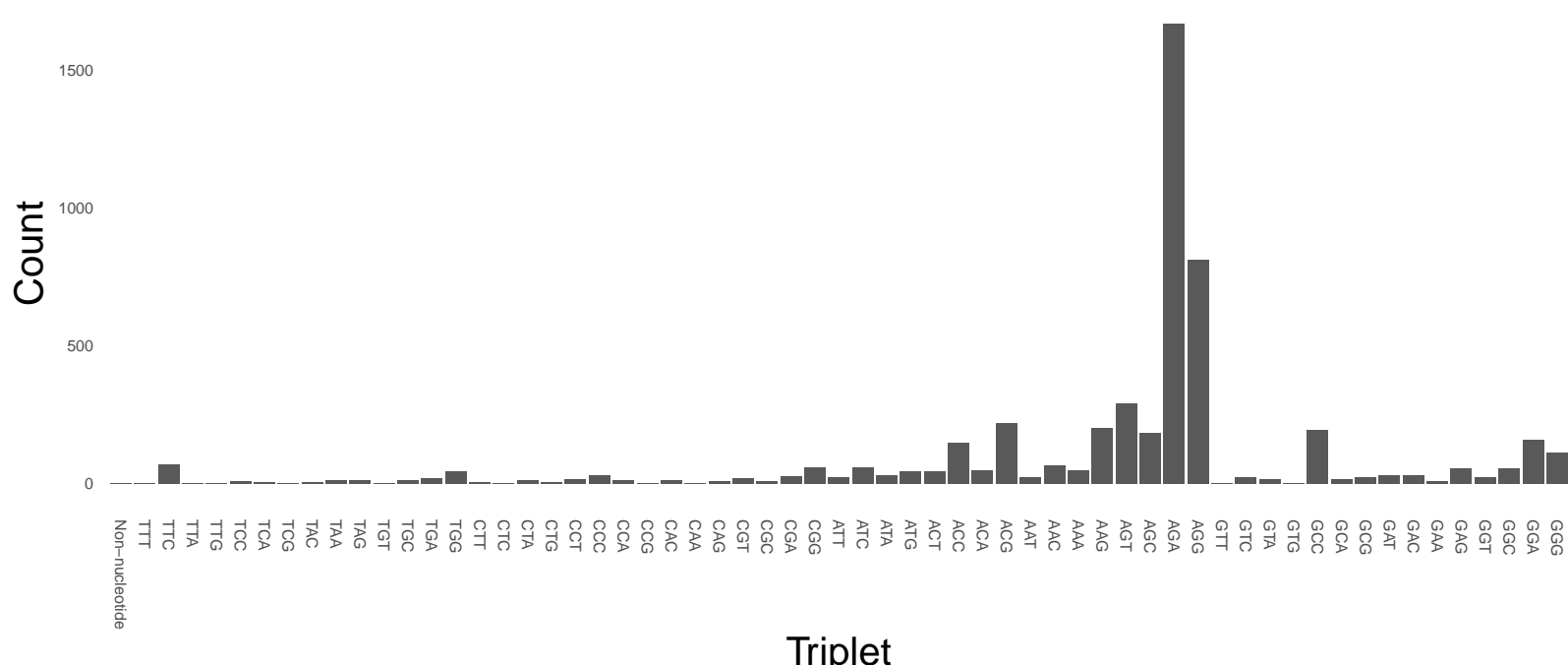
IGHV3-100*01_A132G- Final 3 nucleotides as a triplet



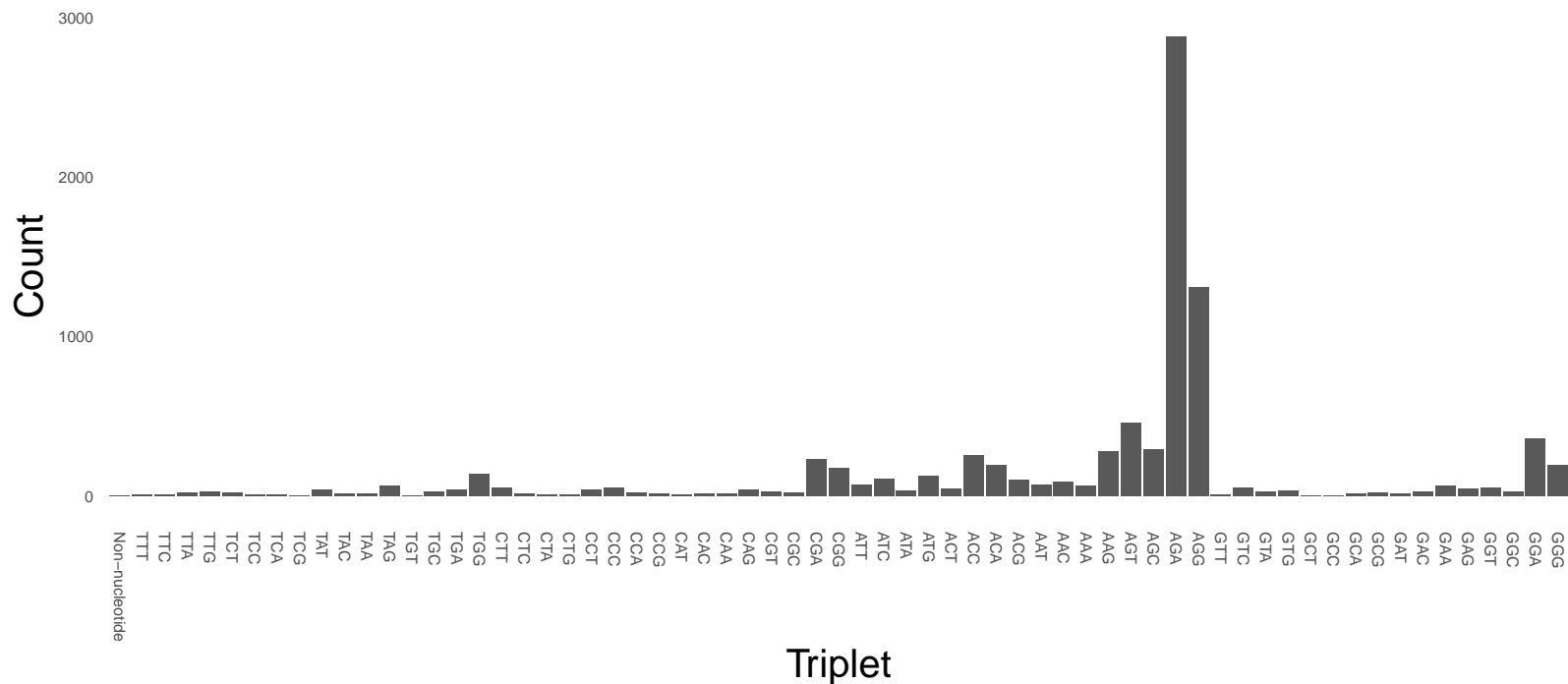
IGHV3-30*02_C141G_C183T- Final 3 nucleotides as a triplet



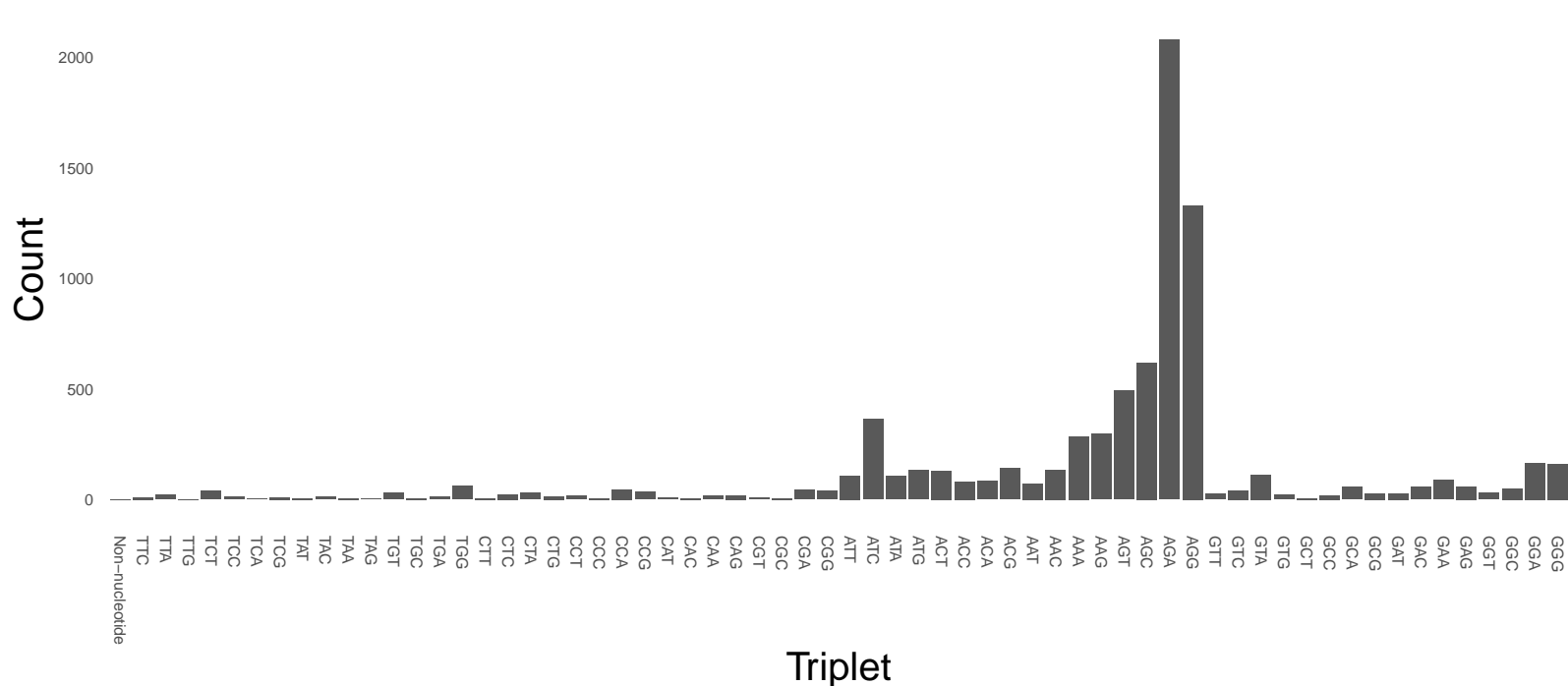
IGHV3-54*02_G170C- Final 3 nucleotides as a triplet



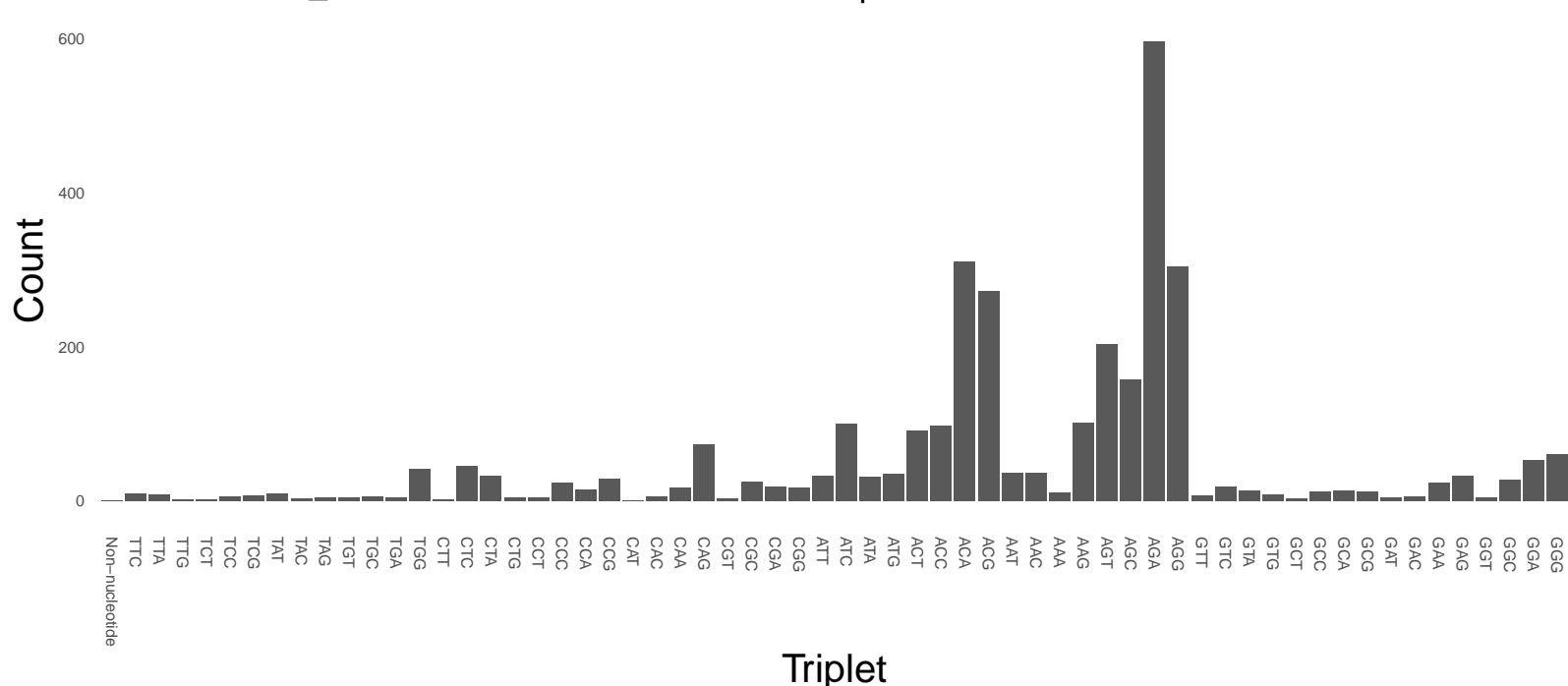
IGHV3-103*01_G51A_A170G- Final 3 nucleotides as a triplet



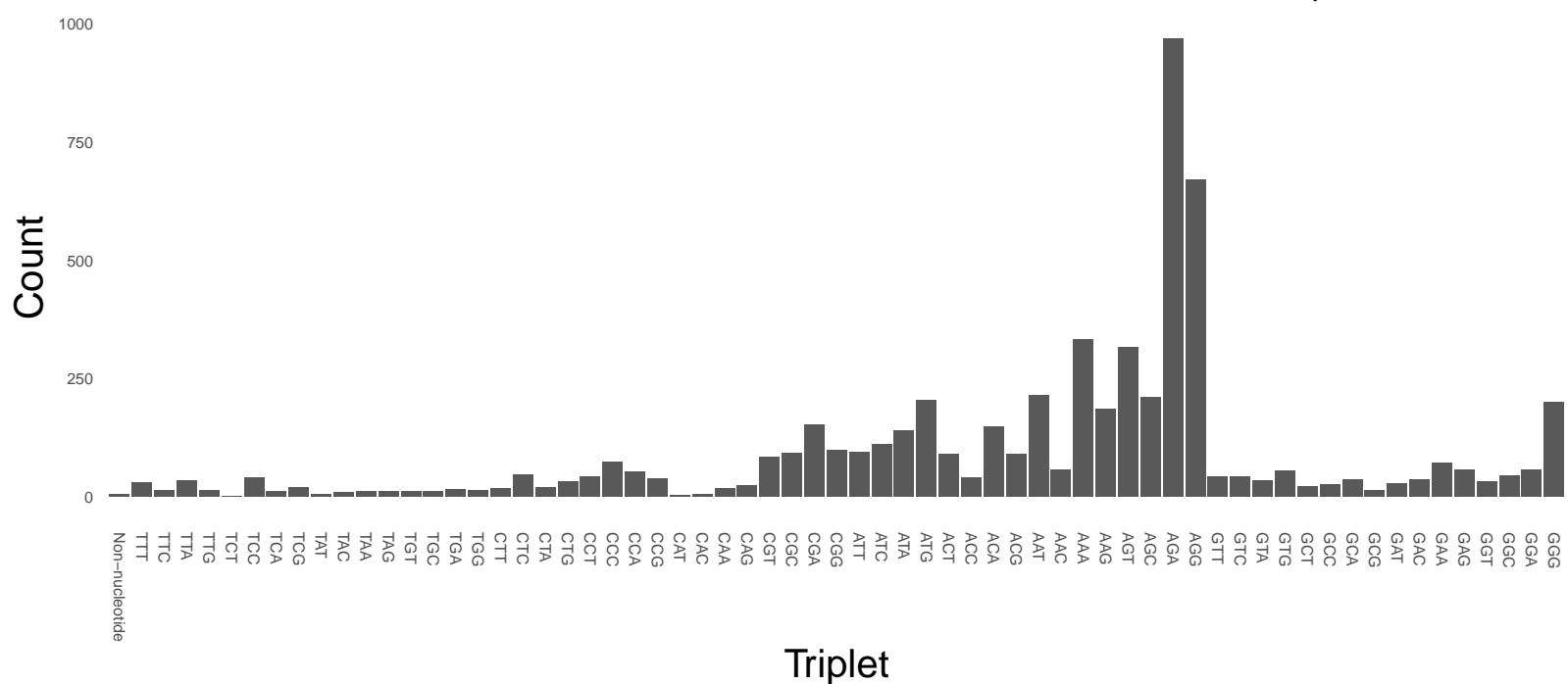
IGHV3-103*01_G24A_C27A_C38T_A39C_A40C_C113G_T114C_C118A_A119G_G163T_C164A- Final 3 nucleotides as a triplet



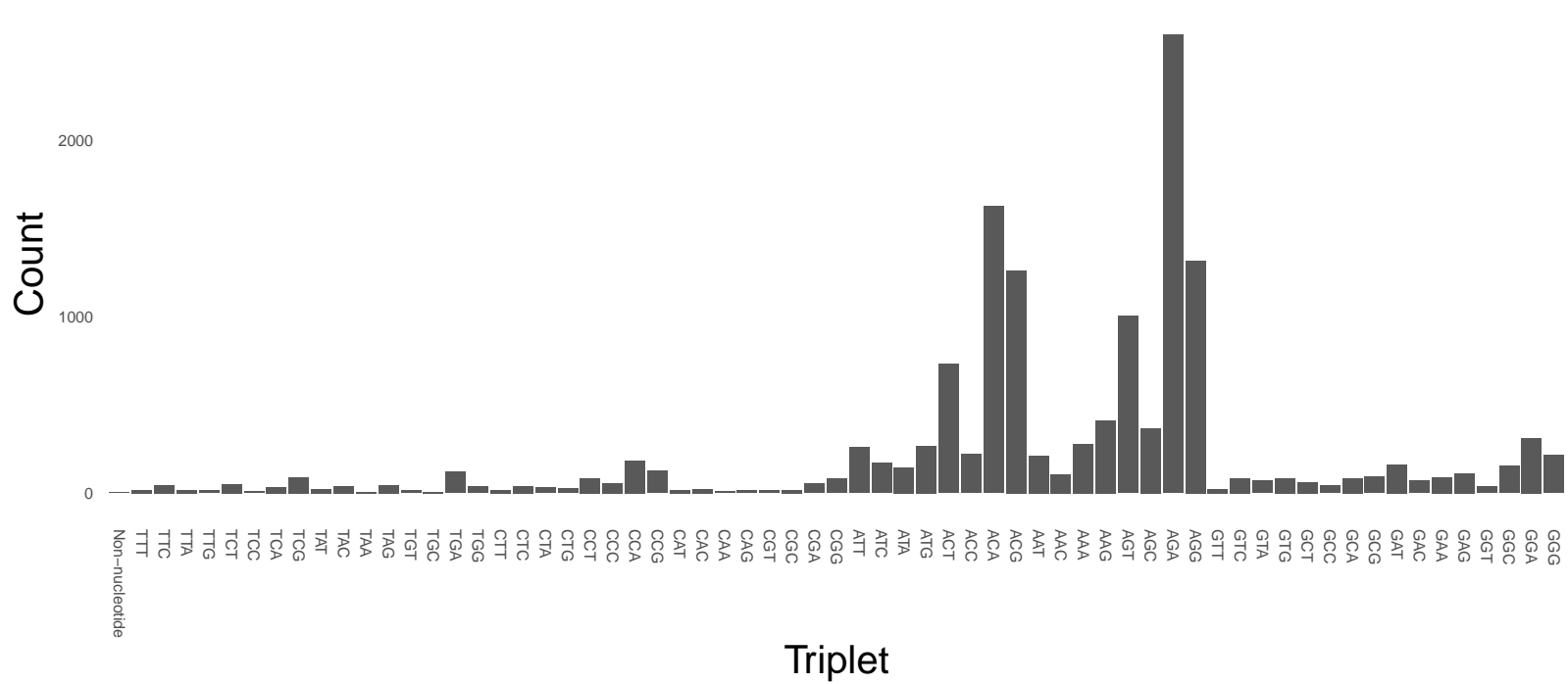
IGHV4-73*01_G147A- Final 3 nucleotides as a triplet



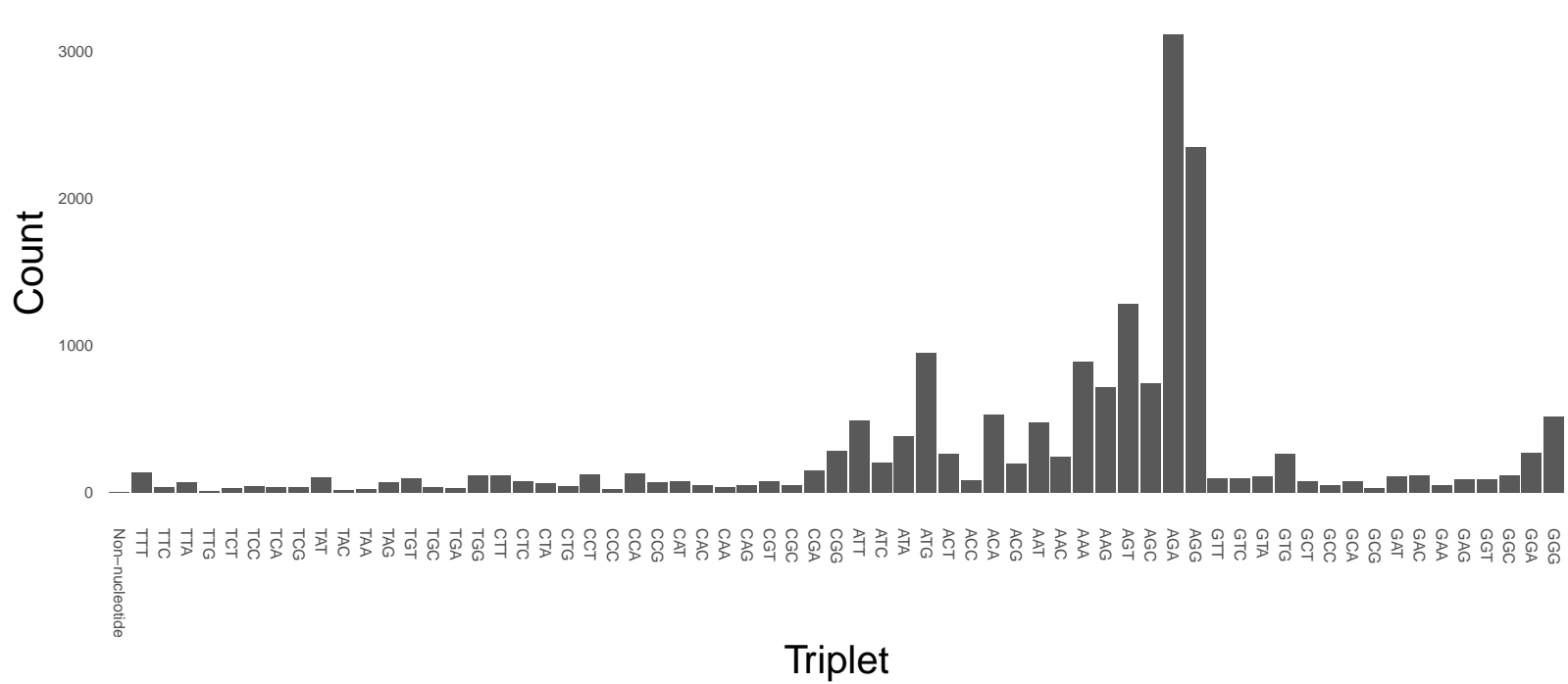
IGHV4-80*01_C83G_A88T_T105C_T189G_T196A- Final 3 nucleotides as a triplet



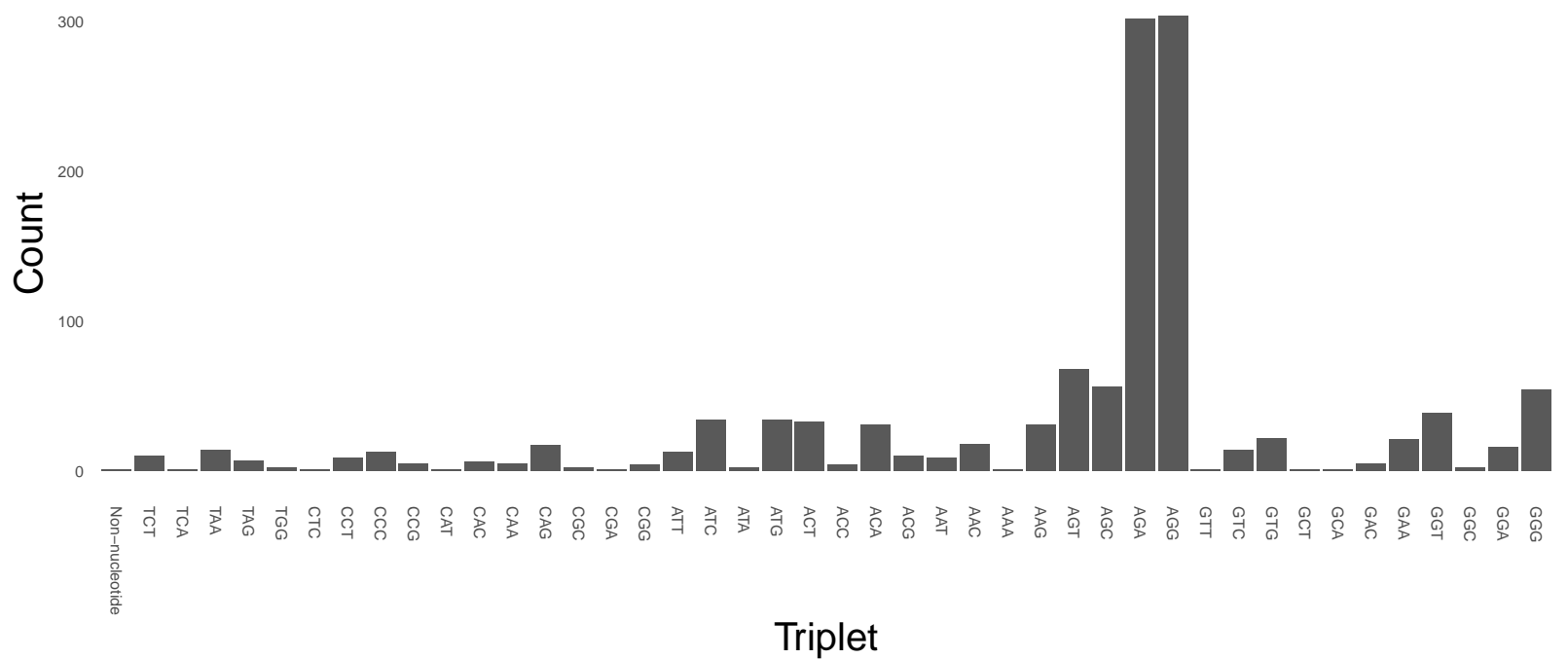
IGHV4-127*01_G169A- Final 3 nucleotides as a triplet



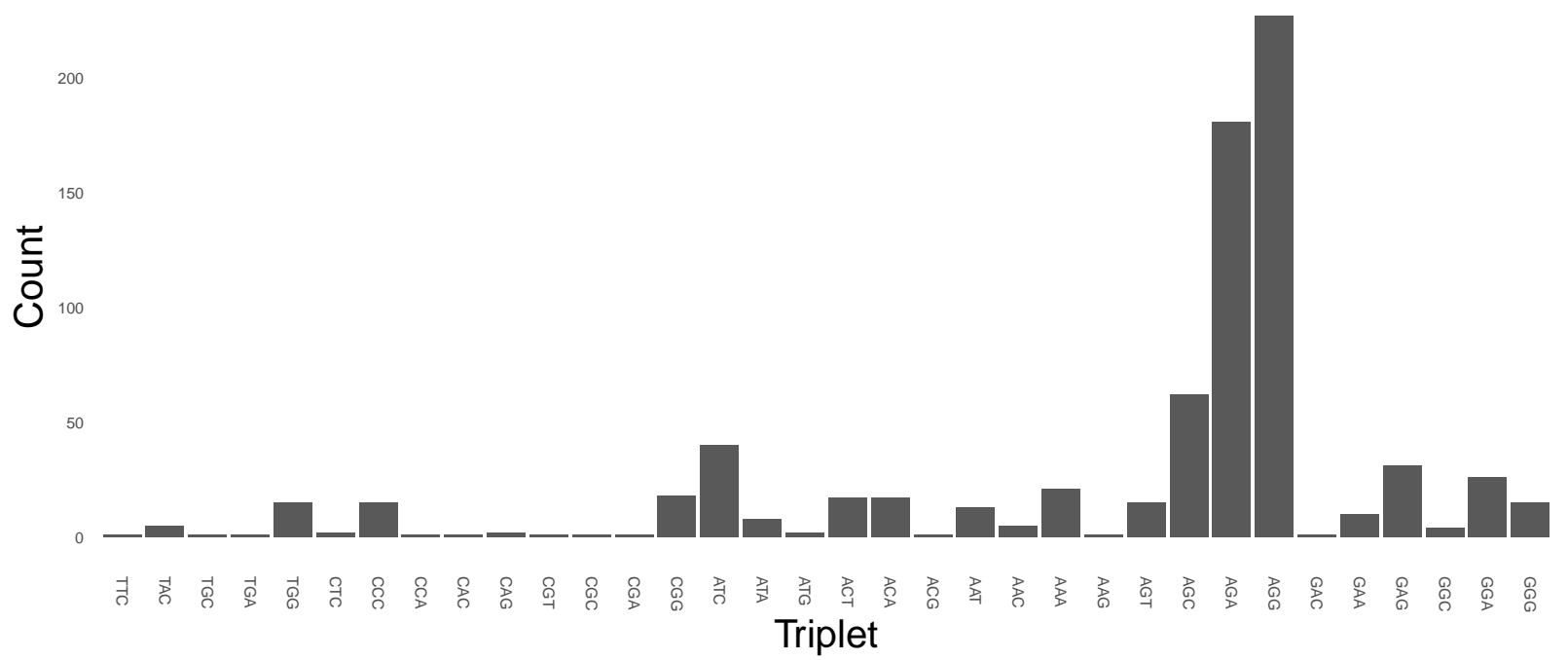
IGHV4-173*01_C47T- Final 3 nucleotides as a triplet



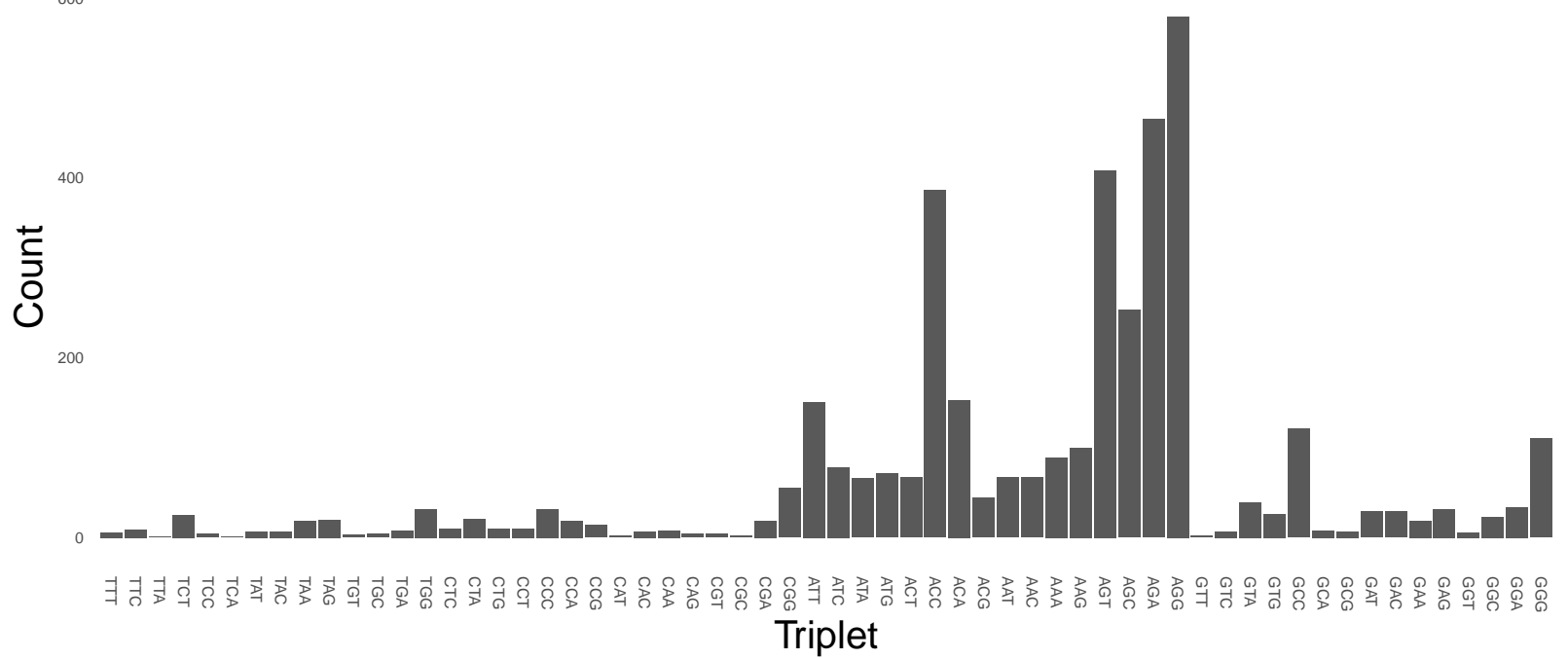
IGHV5-20*02_A295T_C312T- Final 3 nucleotides as a triplet



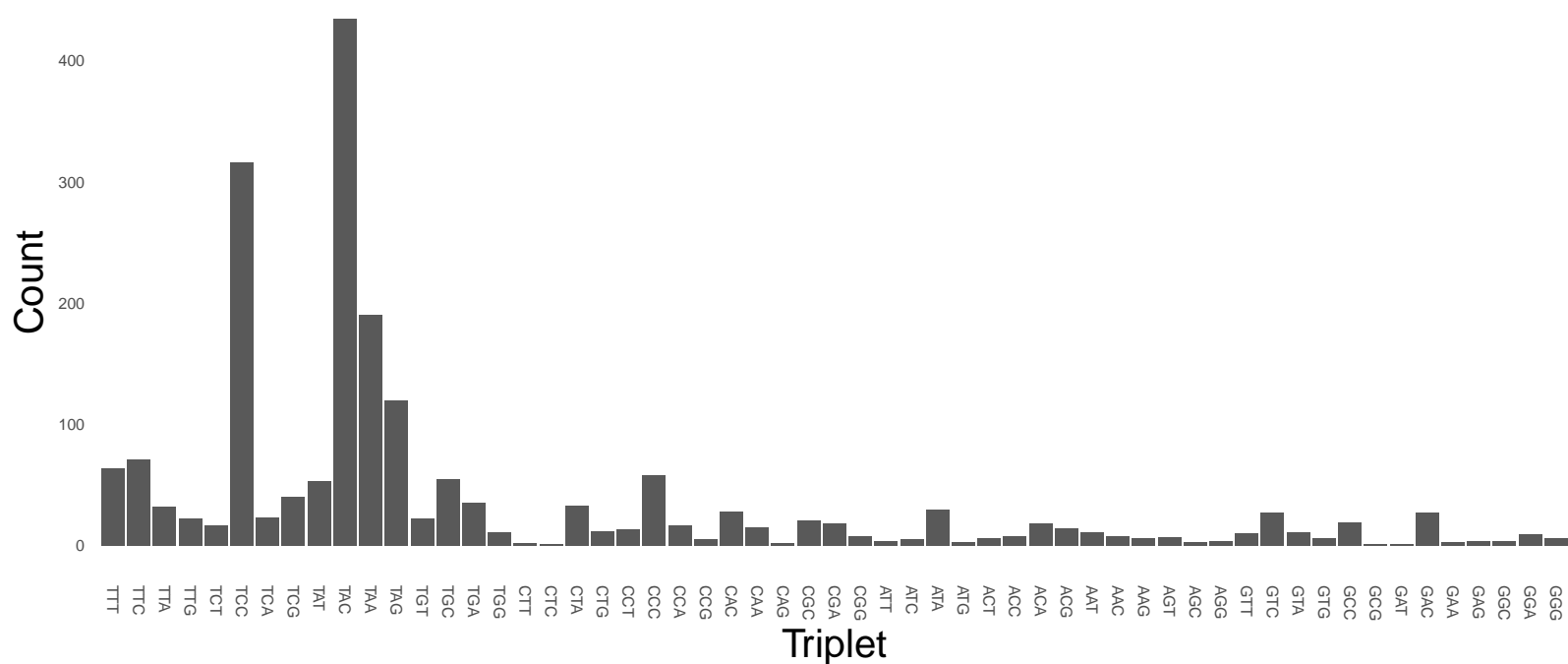
IGHV5-20*02_C312T- Final 3 nucleotides as a triplet



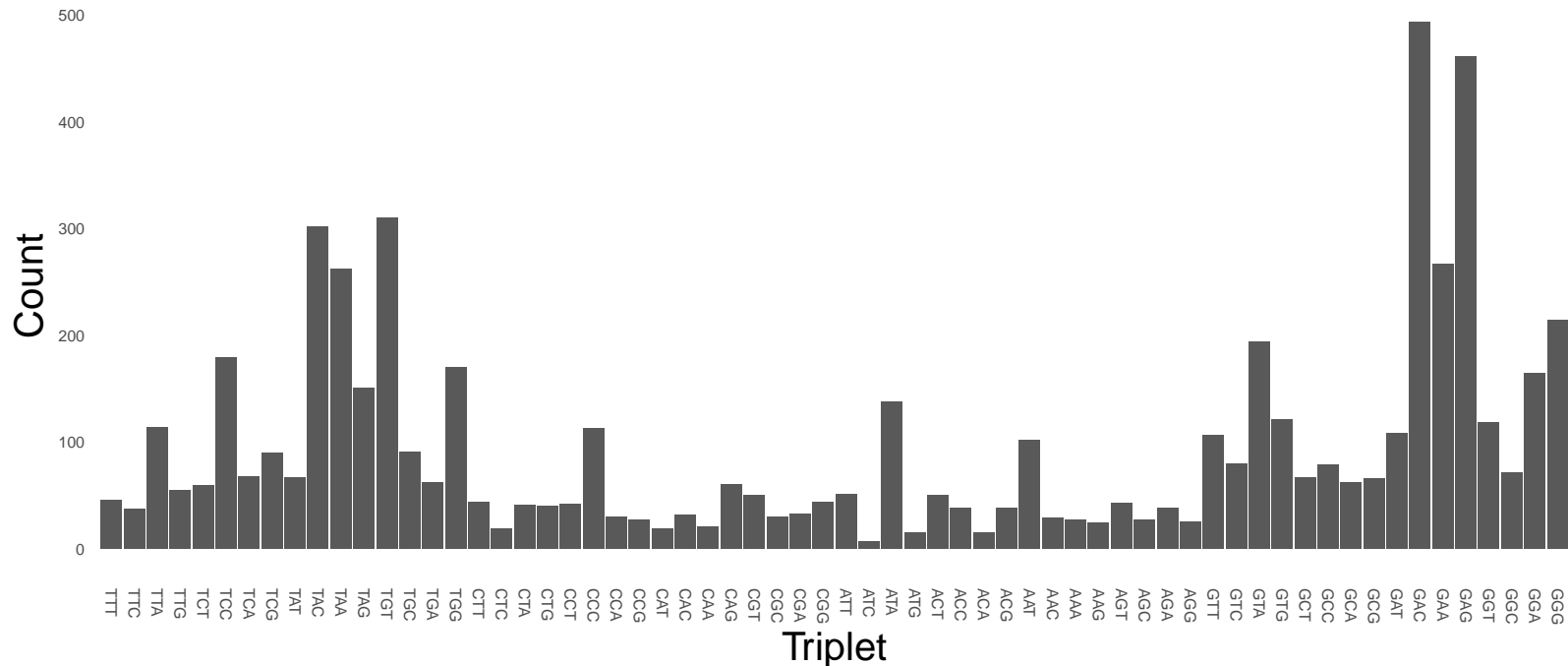
IGHV5-43*01_A109T_G110A_G164T_C165G_A203G_C225G_T231C_A259G- Final 3 nucleotides as a triplet



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

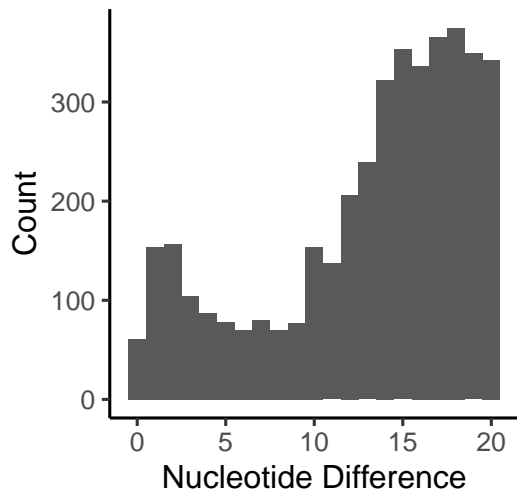


IGHV2S1*01_G289T- Final 3 nucleotides as a triplet



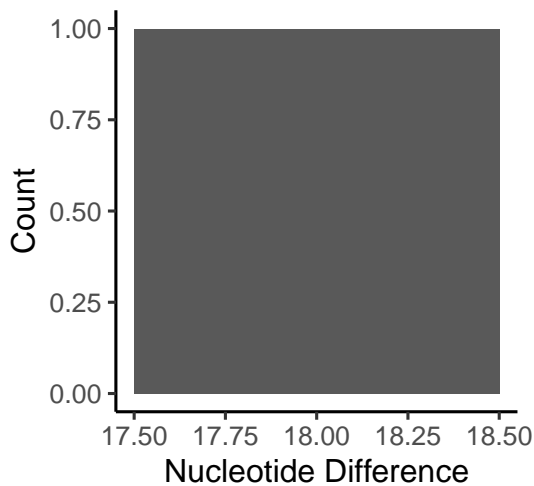
IGHV2S1*01_G289T

6046 sequences assigned
61 (1%) exact matches, in which:
60 unique CDR3
4 unique J



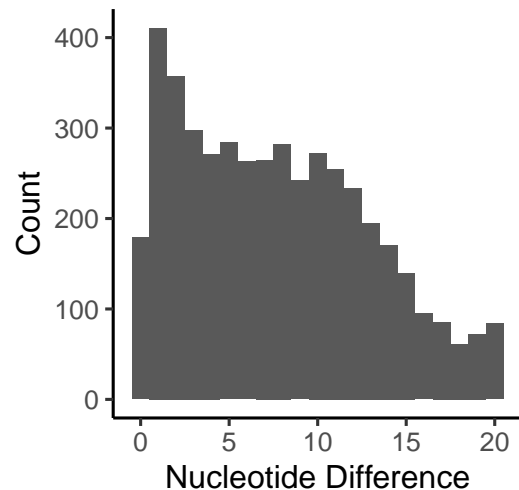
IGHV1-70*01

138 sequences assigned
No exact matches.



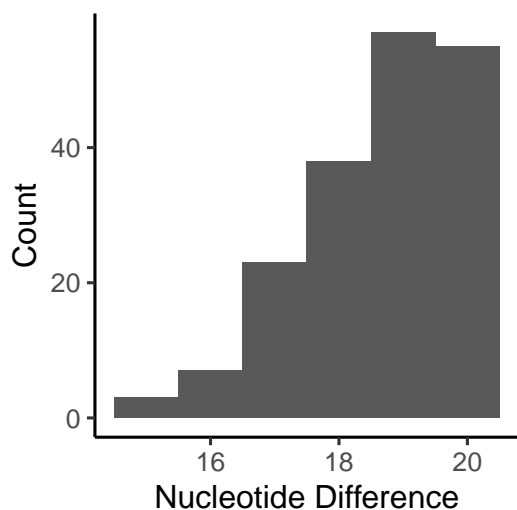
IGHV3-54*02_G170C

5092 sequences assigned
179 (3.5%) exact matches, in which:
173 unique CDR3
5 unique J



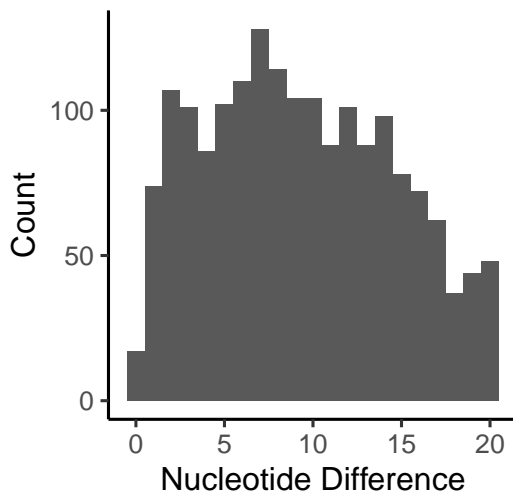
IGHV3S3*01

2095 sequences assigned
No exact matches.



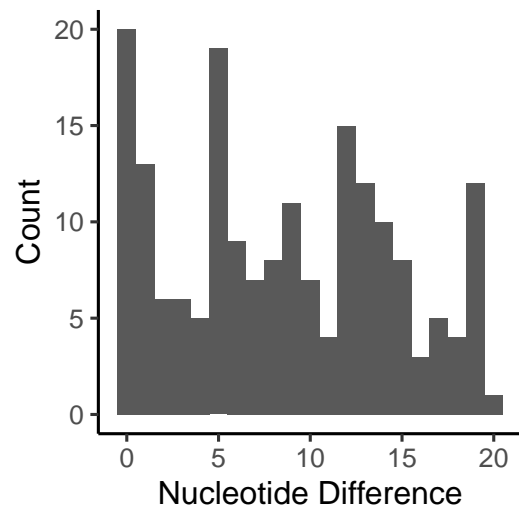
IGHV2-95*01_G289T

1993 sequences assigned
17 (0.9%) exact matches, in which:
17 unique CDR3
3 unique J



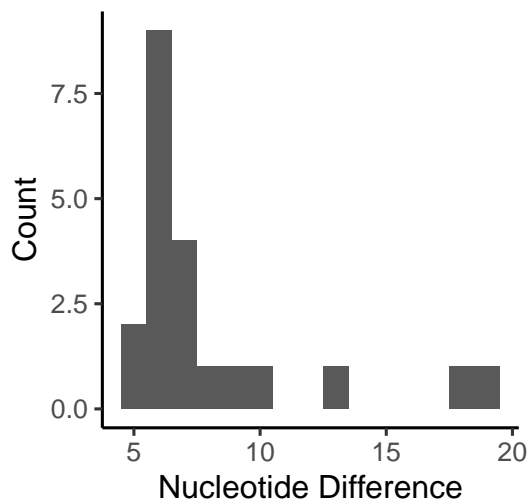
IGHV3-100*01_A132G

2688 sequences assigned
20 (0.7%) exact matches, in which:
20 unique CDR3
4 unique J



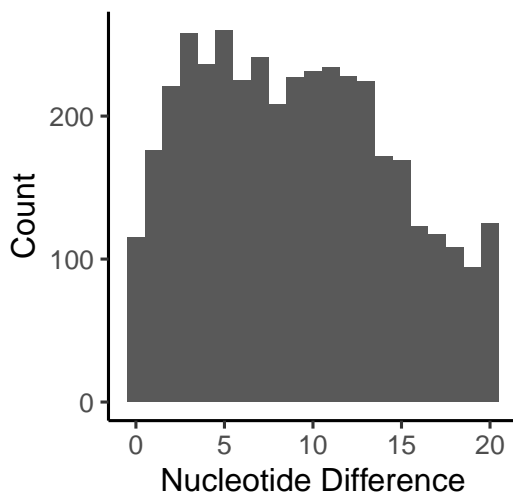
IGHV3S43*01

36 sequences assigned
No exact matches.



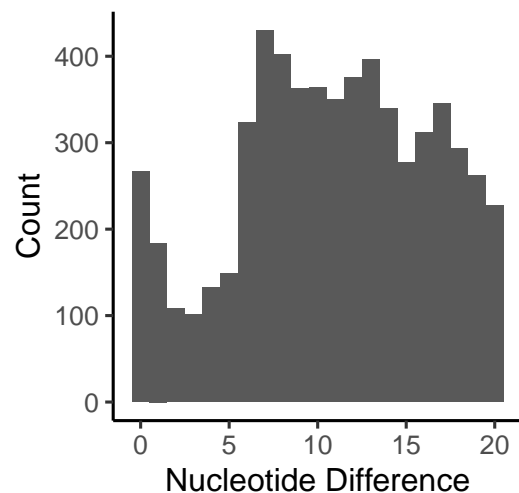
IGHV3-30*02_C141G_C

7749 sequences assigned
115 (1.5%) exact matches, in which:
101 unique CDR3
4 unique J



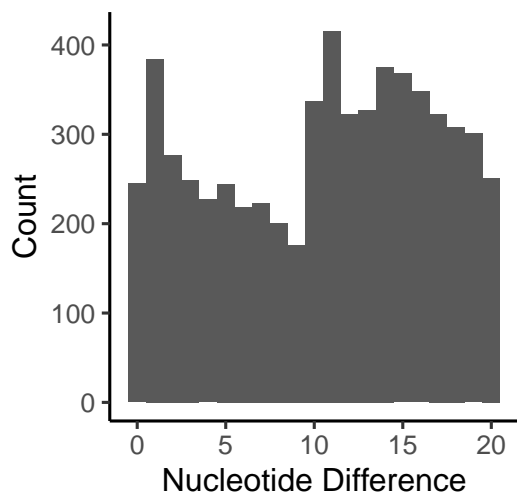
IGHV3-103*01_G24A_C2

7953 sequences assigned
267 (3.4%) exact matches, in which:
253 unique CDR3
5 unique J



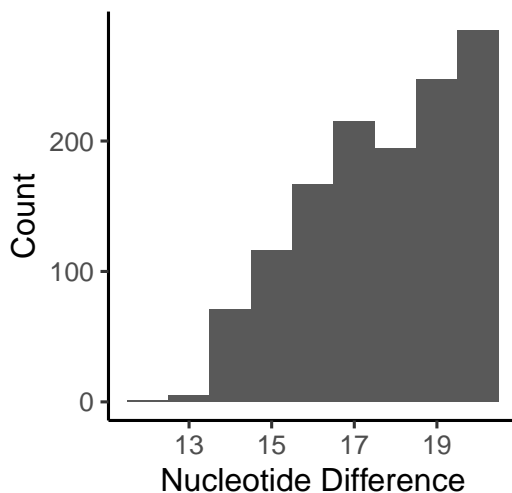
IGHV3-103*01_G51A_A1

8546 sequences assigned
245 (2.9%) exact matches, in which:
231 unique CDR3
5 unique J



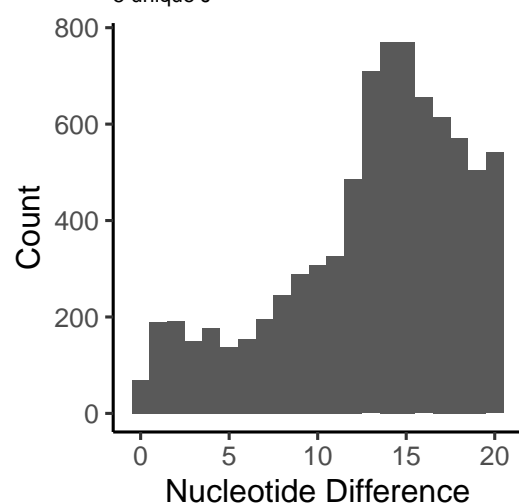
IGHV3-137*01

5306 sequences assigned
No exact matches.



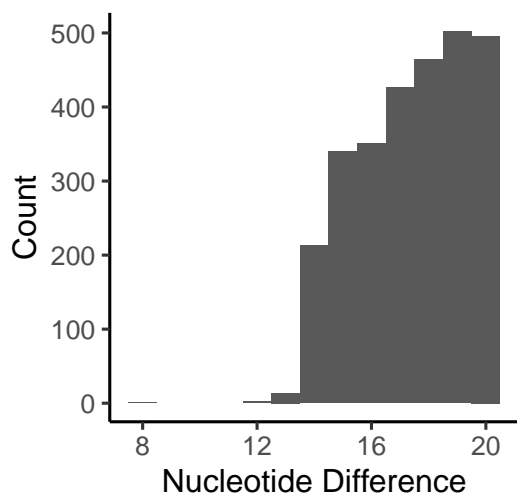
IGHV4-127*01_G169A

14072 sequences assigned
70 (0.5%) exact matches, in which:
65 unique CDR3
5 unique J



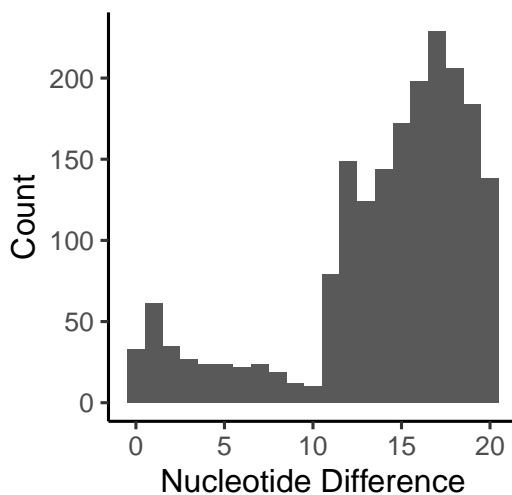
IGHV3-108*01

8033 sequences assigned
No exact matches.



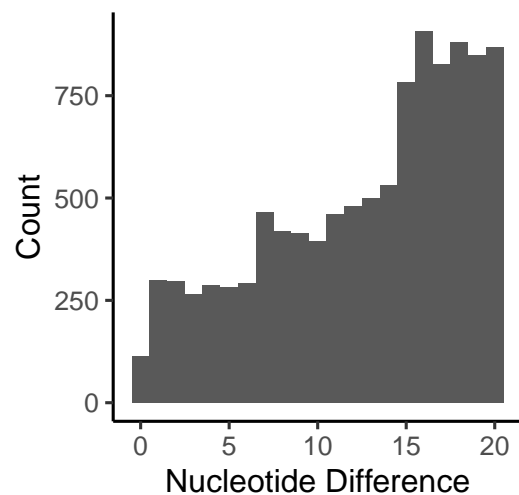
IGHV4-73*01_G147A

3141 sequences assigned
33 (1.1%) exact matches, in which:
31 unique CDR3
5 unique J



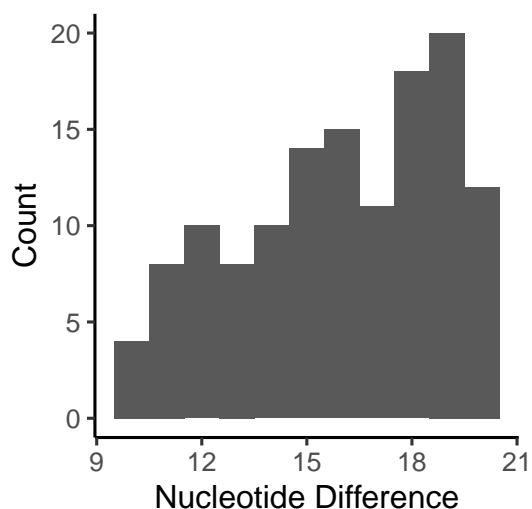
IGHV4-173*01_C47T

17379 sequences assigned
114 (0.7%) exact matches, in which:
112 unique CDR3
5 unique J



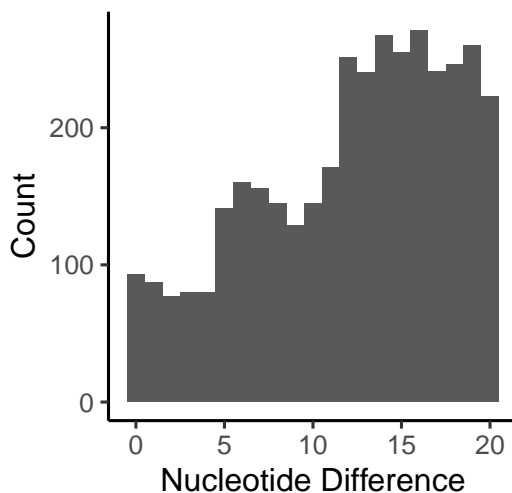
IGHV3-117*01

3106 sequences assigned
No exact matches.



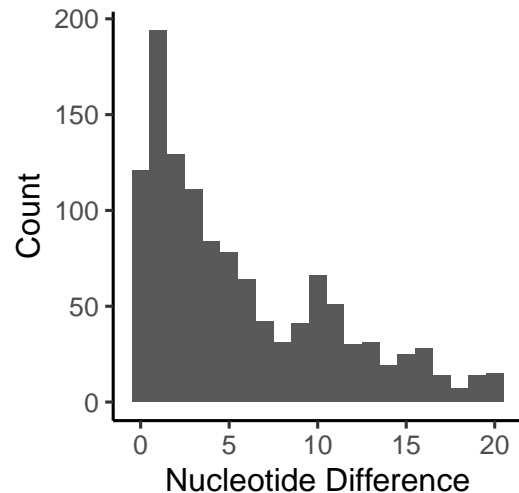
IGHV4-80*01_C83G_A88

5737 sequences assigned
93 (1.6%) exact matches, in which:
92 unique CDR3
5 unique J



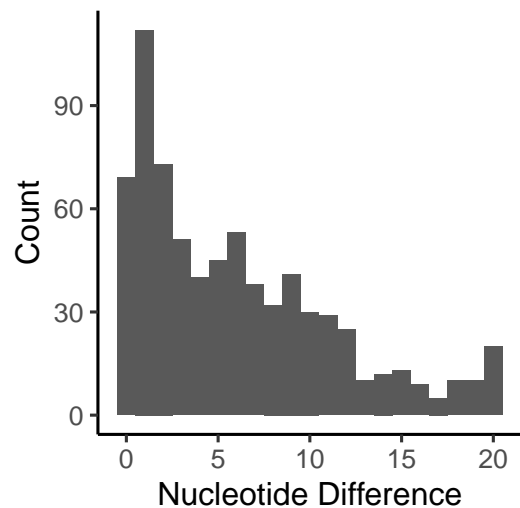
IGHV5-20*02_A295T_C3

1225 sequences assigned
121 (9.9%) exact matches, in which:
112 unique CDR3
5 unique J



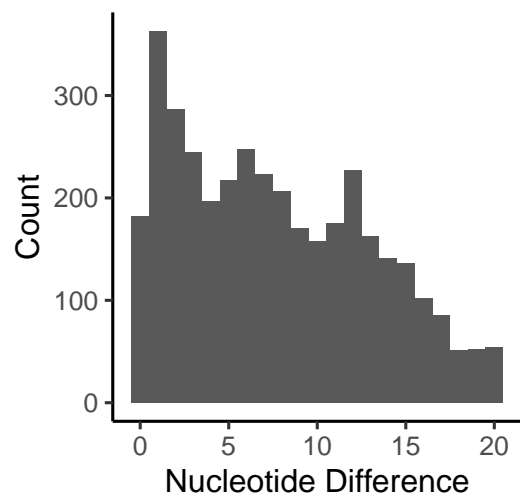
IGHV5-20*02_C312T

762 sequences assigned
69 (9.1%) exact matches, in which:
61 unique CDR3
4 unique J



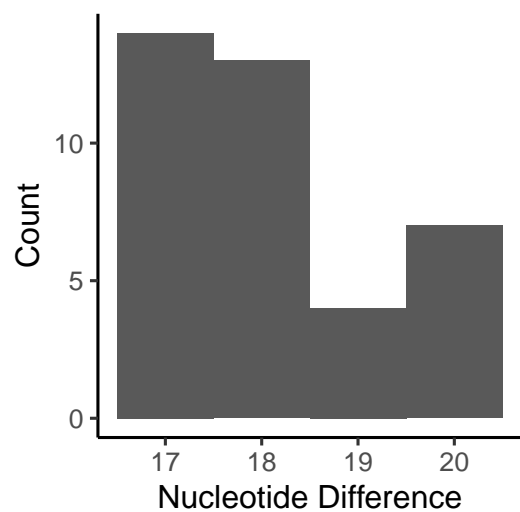
IGHV5-43*01_A109T_G110A_G164T_C165G_A203G_C225G_T231C_A259G

3899 sequences assigned
182 (4.7%) exact matches, in which:
162 unique CDR3
5 unique J

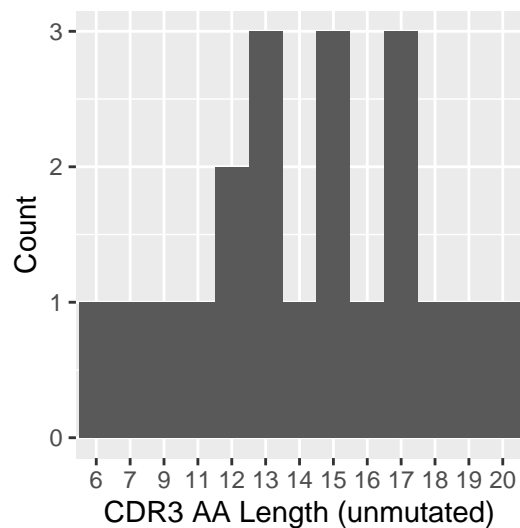


IGHV7-94*01

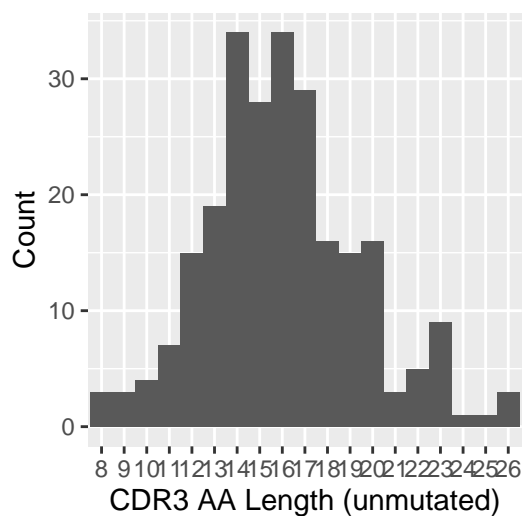
76 sequences assigned
No exact matches.



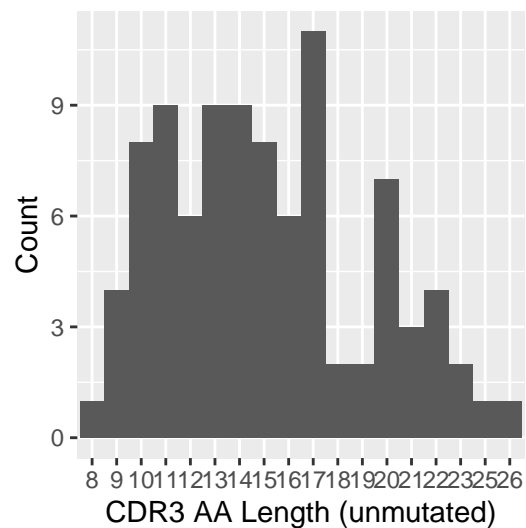
IGHV3-100*01_A132G



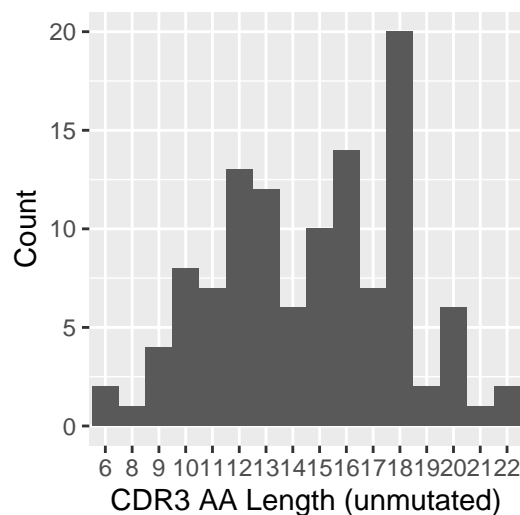
IGHV3-103*01_G51A_A170G



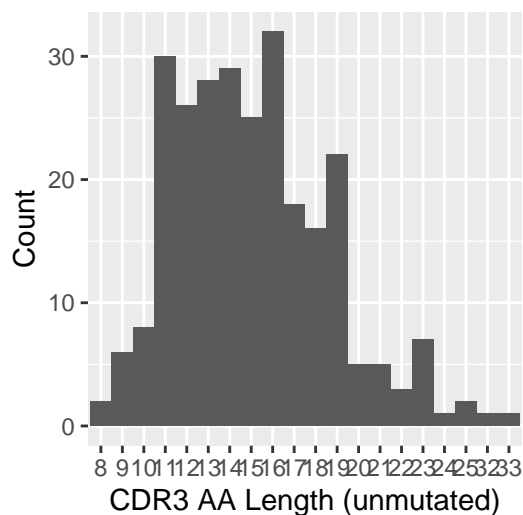
IGHV4-80*01_C83G_A88T_T



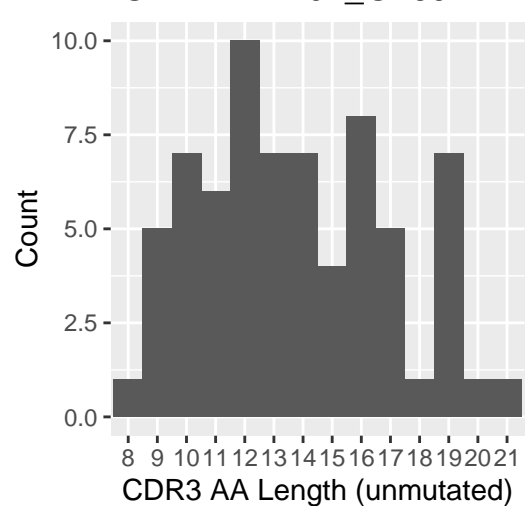
IGHV3-30*02_C141G_C183G



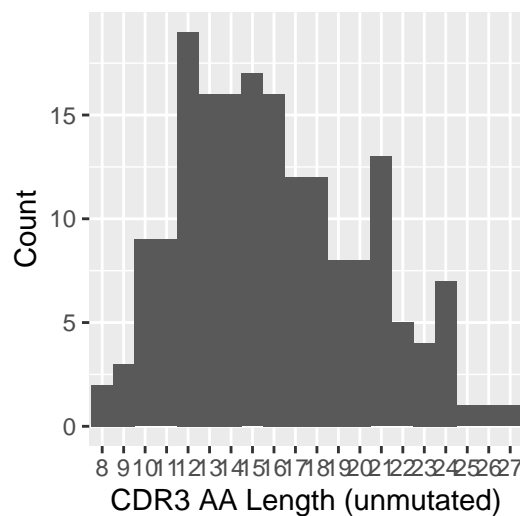
IGHV3-103*01_G24A_C27A



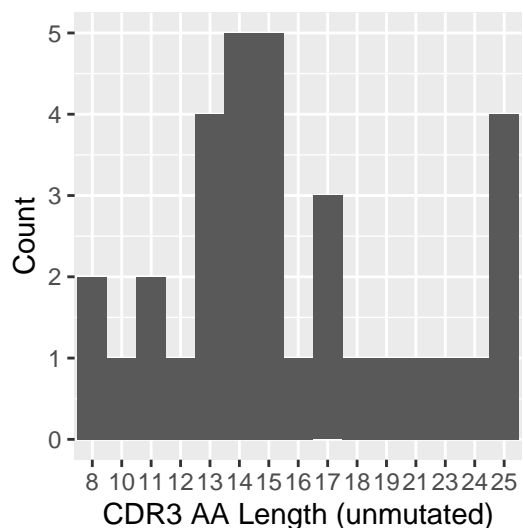
IGHV4-127*01_G169A



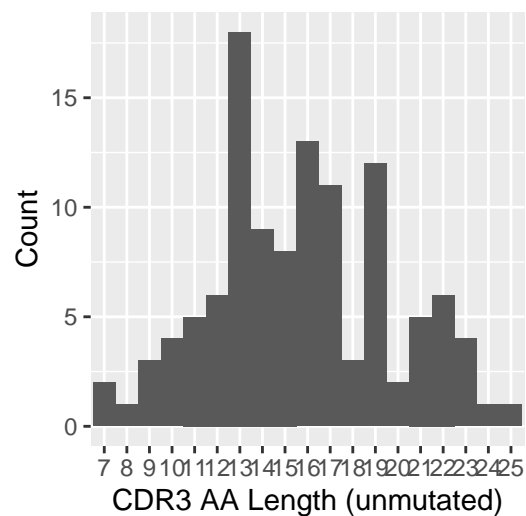
IGHV3-54*02_G170C



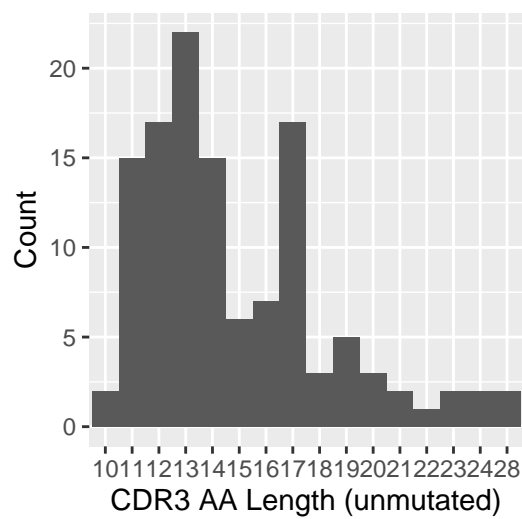
IGHV4-73*01_G147A



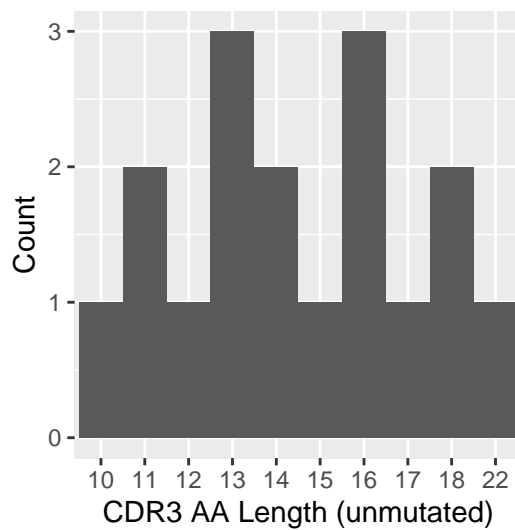
IGHV4-173*01_C47T



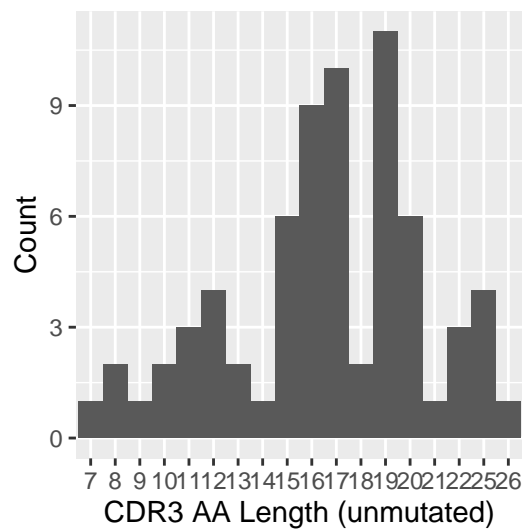
IGHV5-20*02_A295T_C312T



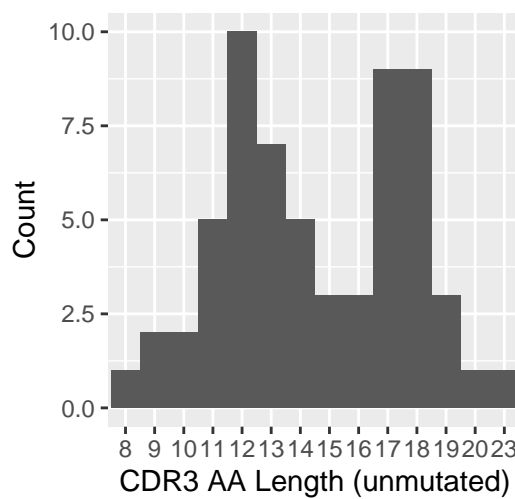
IGHV2-95*01_G289T



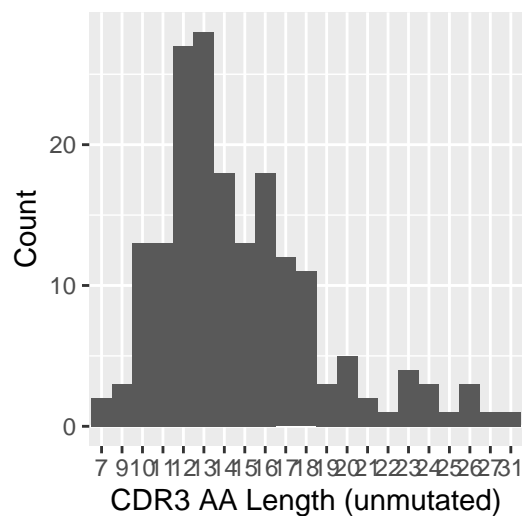
IGHV5-20*02_C312T

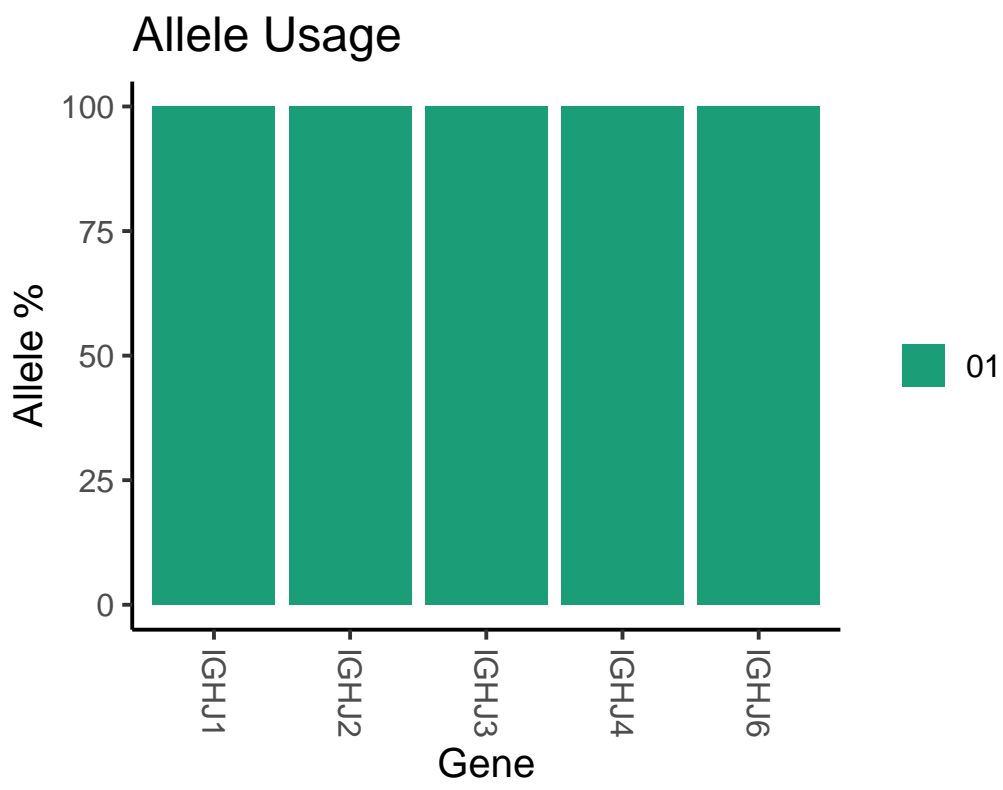


IGHV2S1*01_G289T



IGHV5-43*01_A109T_G110A_G164T_C165G_A203G_C225G_T231C_A259G





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.