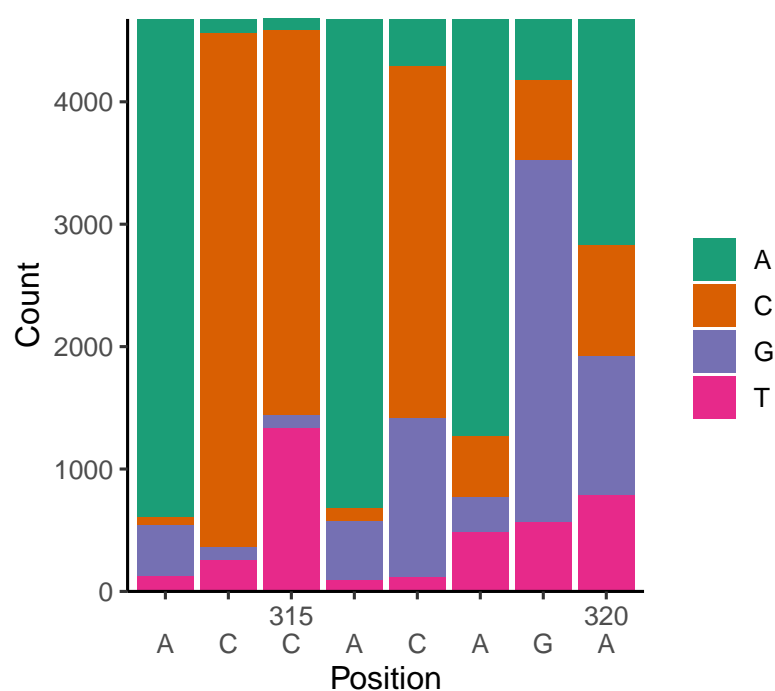
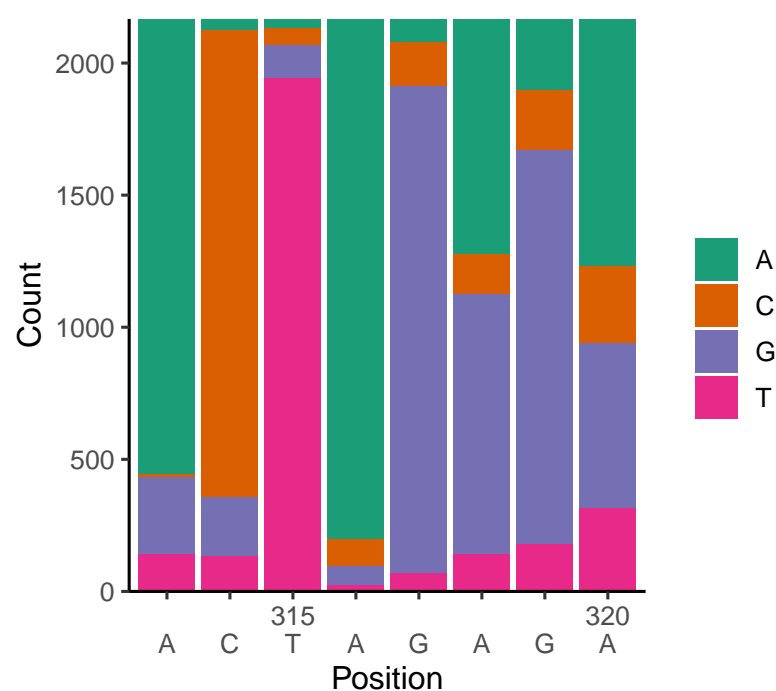


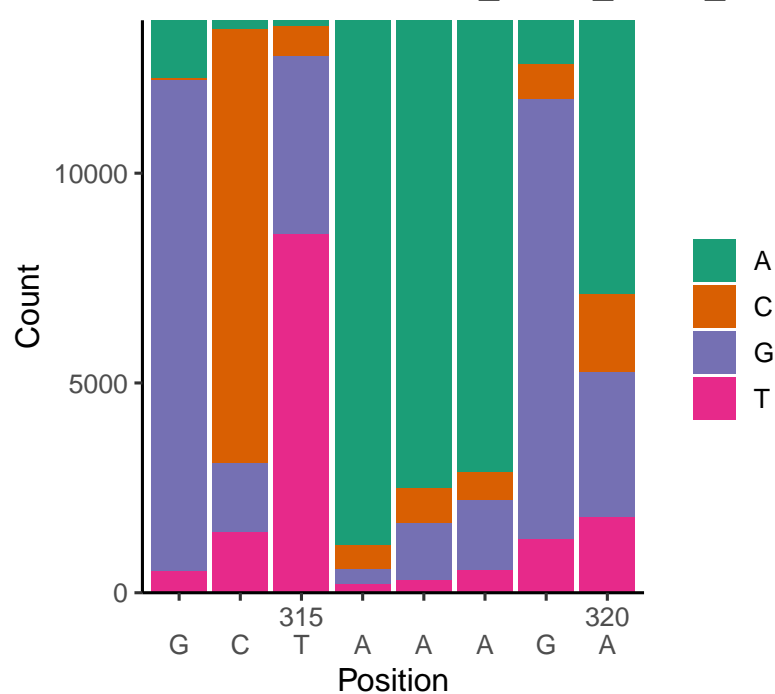
Gene IGHV3-30*01_G174C_A188G_G1



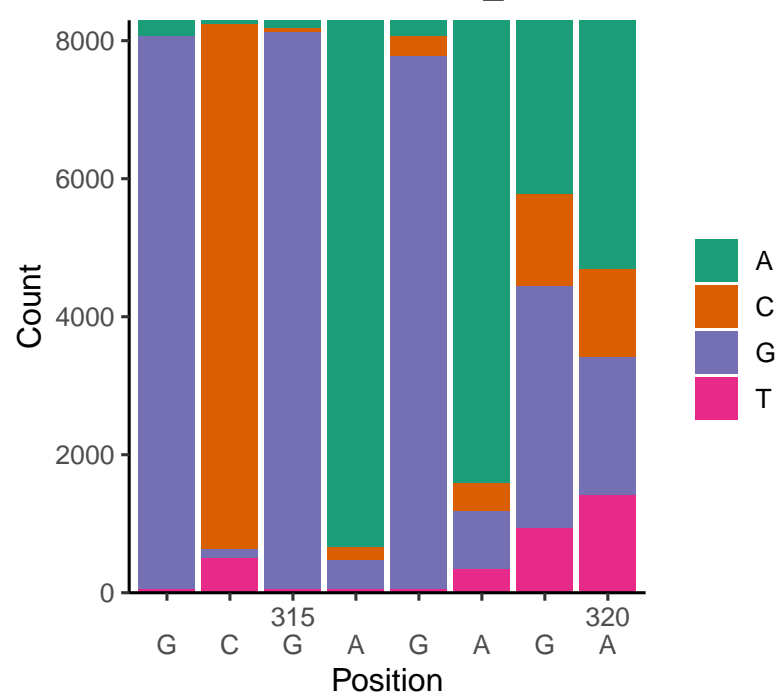
Gene IGHV3-183*01_G202A



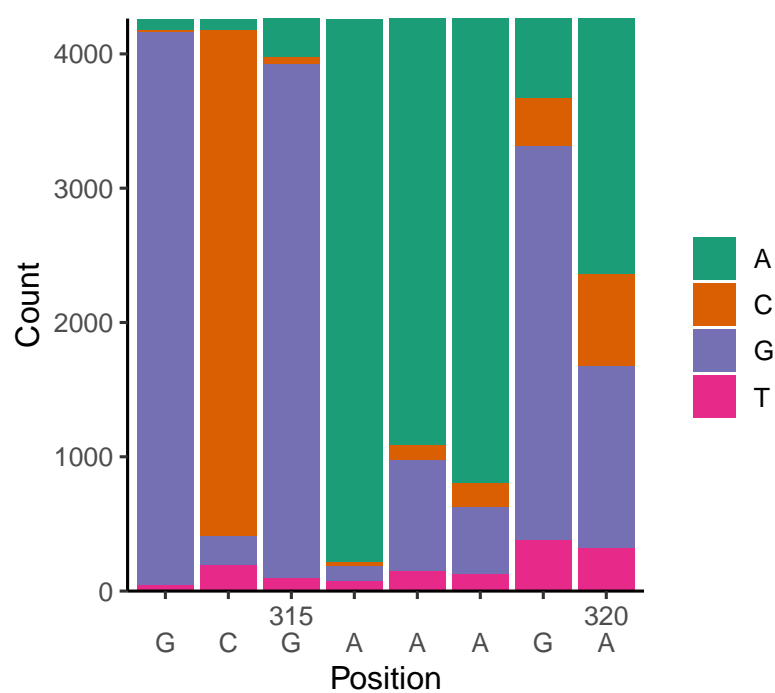
Gene IGHV3S42*01_C27A_C38T_A39C



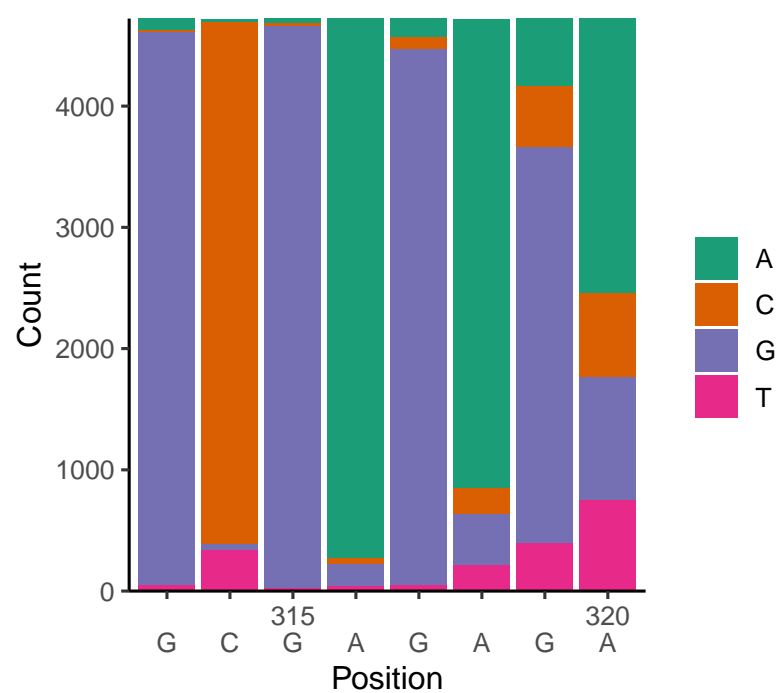
Gene IGHV4-127*01_G297C



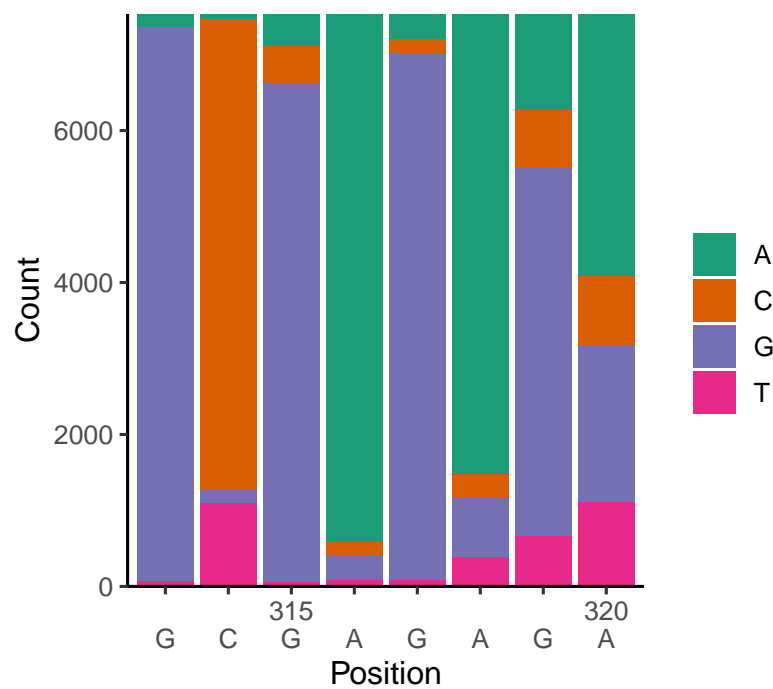
Gene IGHV3-103*01_T19A_G24A_C27A



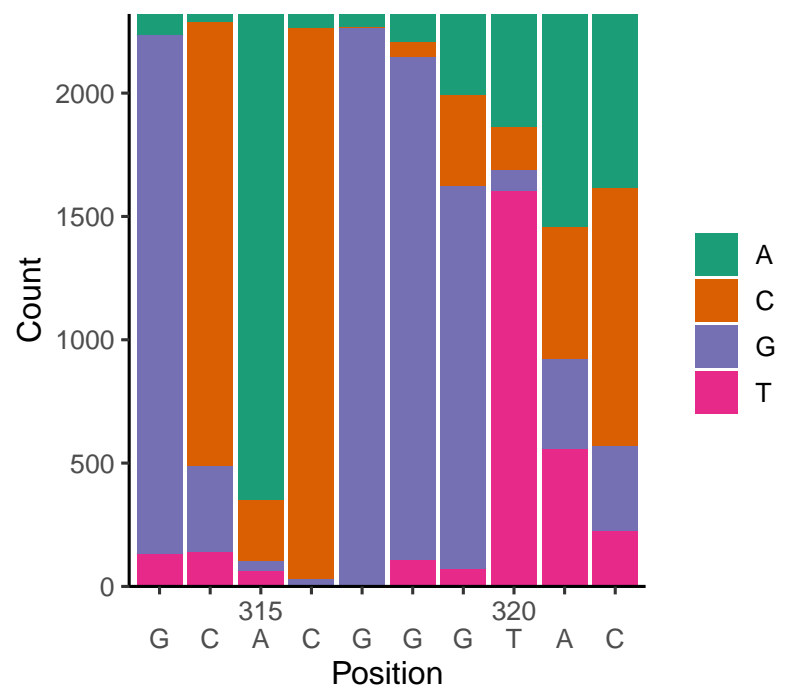
Gene IGHV4S13*01_G297C



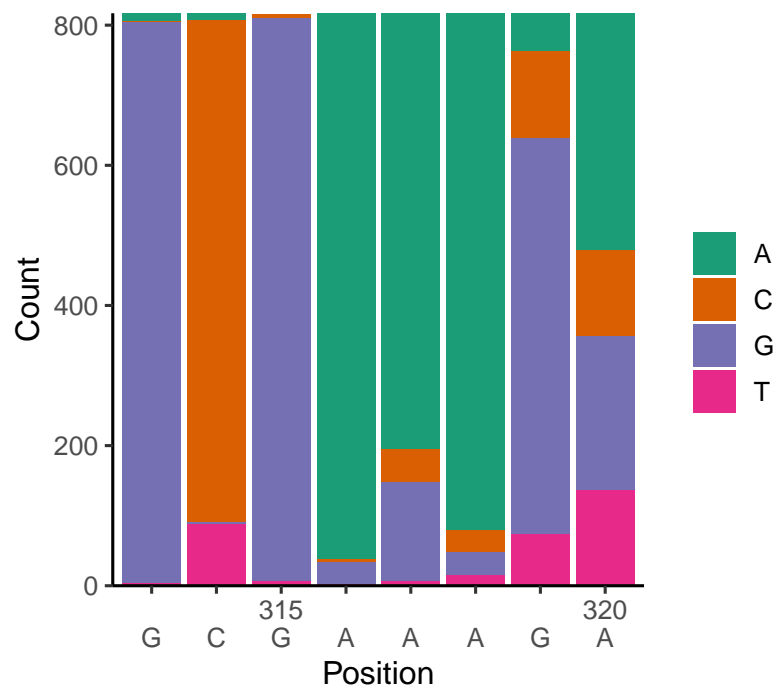
Gene IGHV4S2*01_G248C



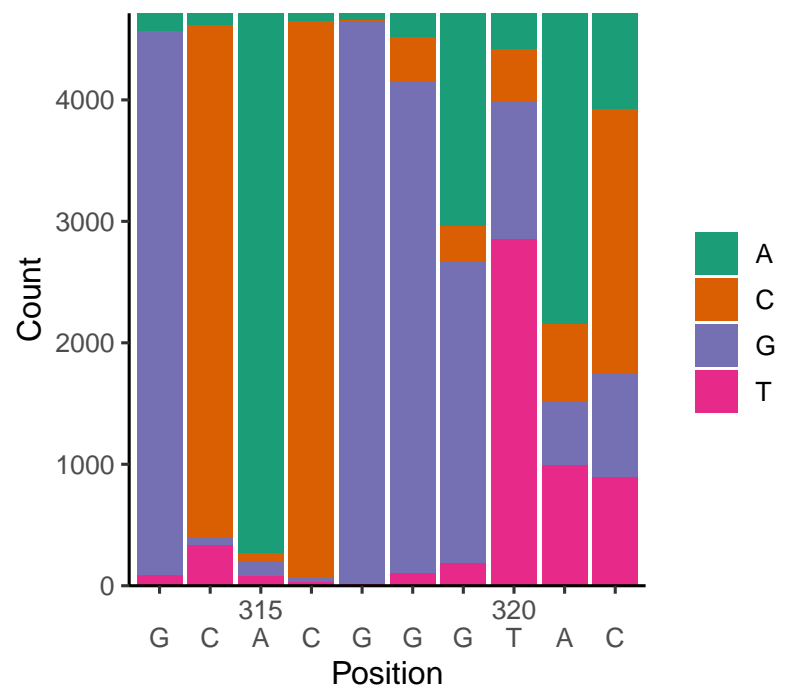
Gene IGHV2-95*01_G289T



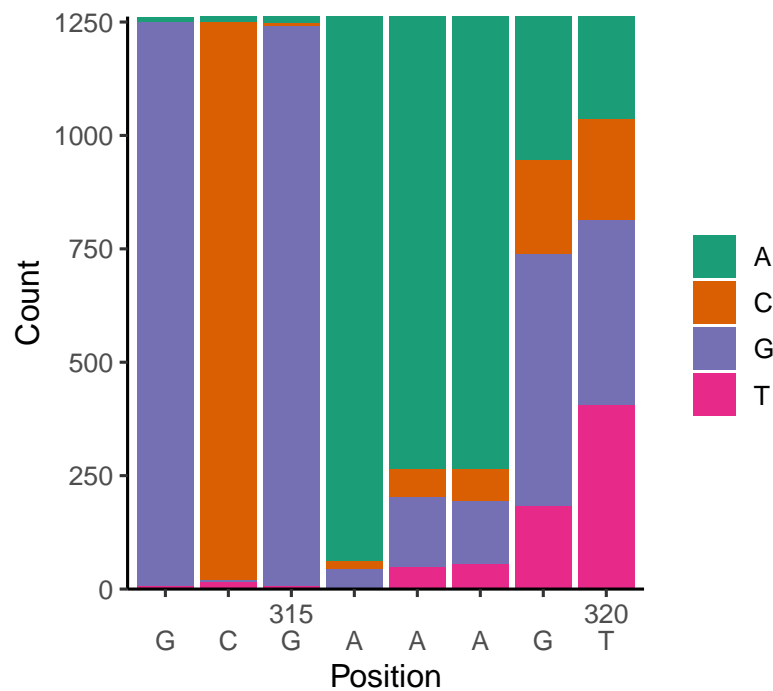
Gene IGHV5-20*01_A141G



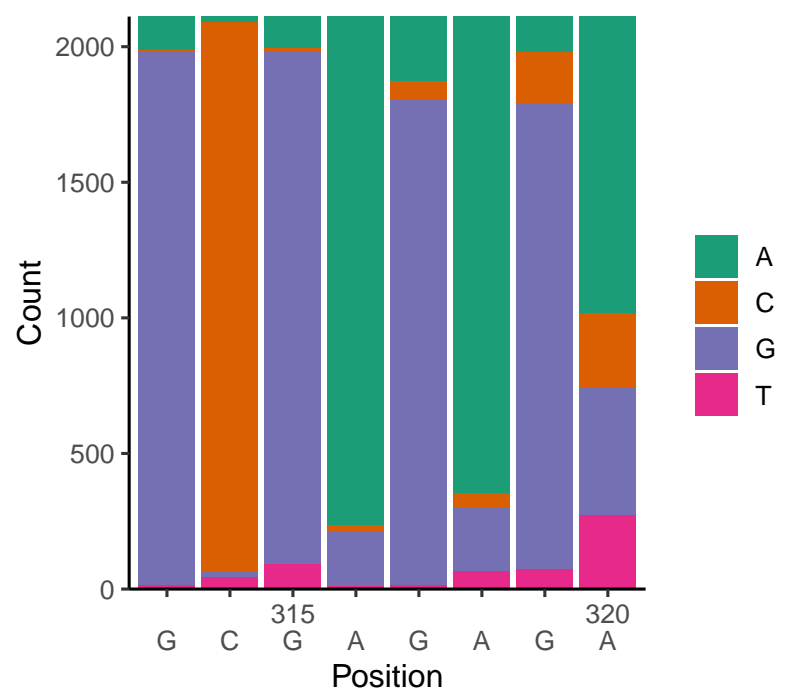
Gene IGHV2S1*01_G289T



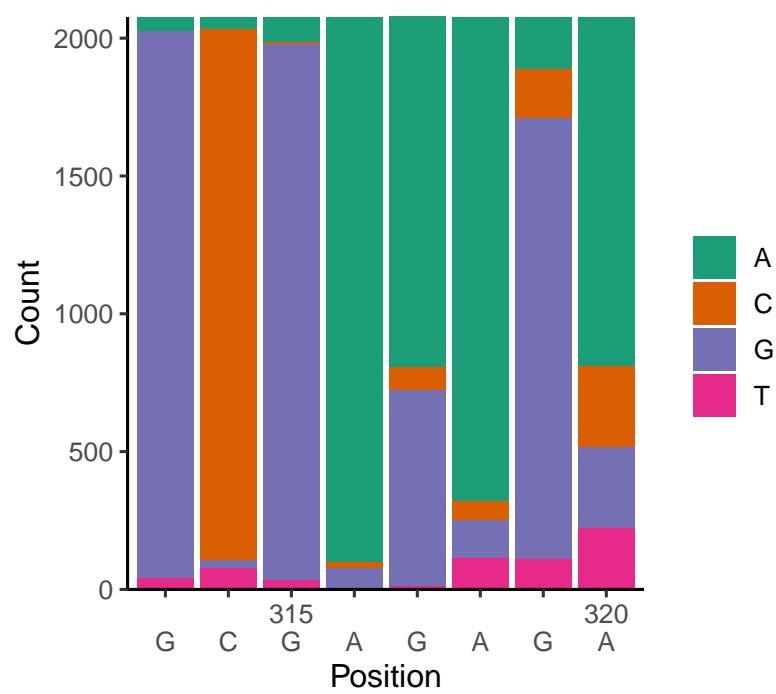
Gene IGHV5-43*01_A51G



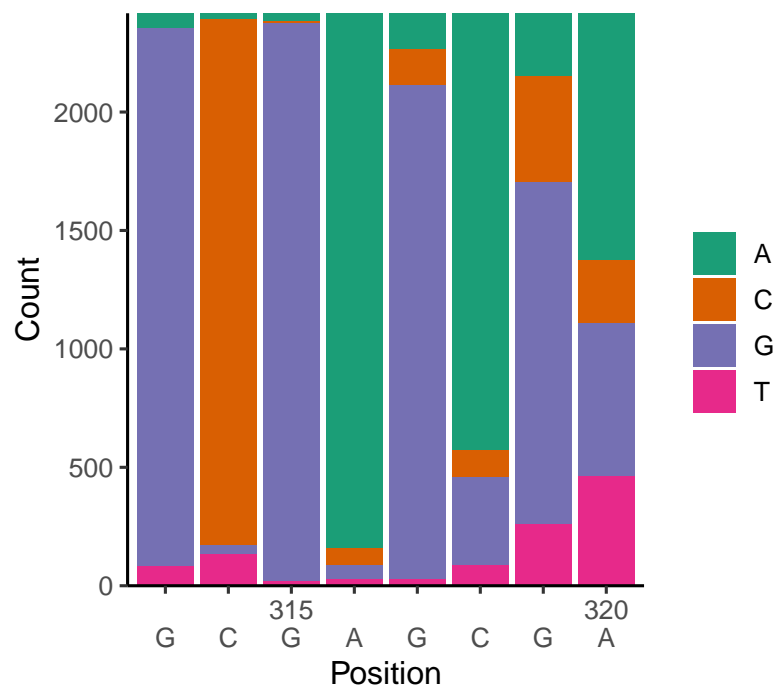
Gene IGHV3-59*01_C69T_C86G_C118



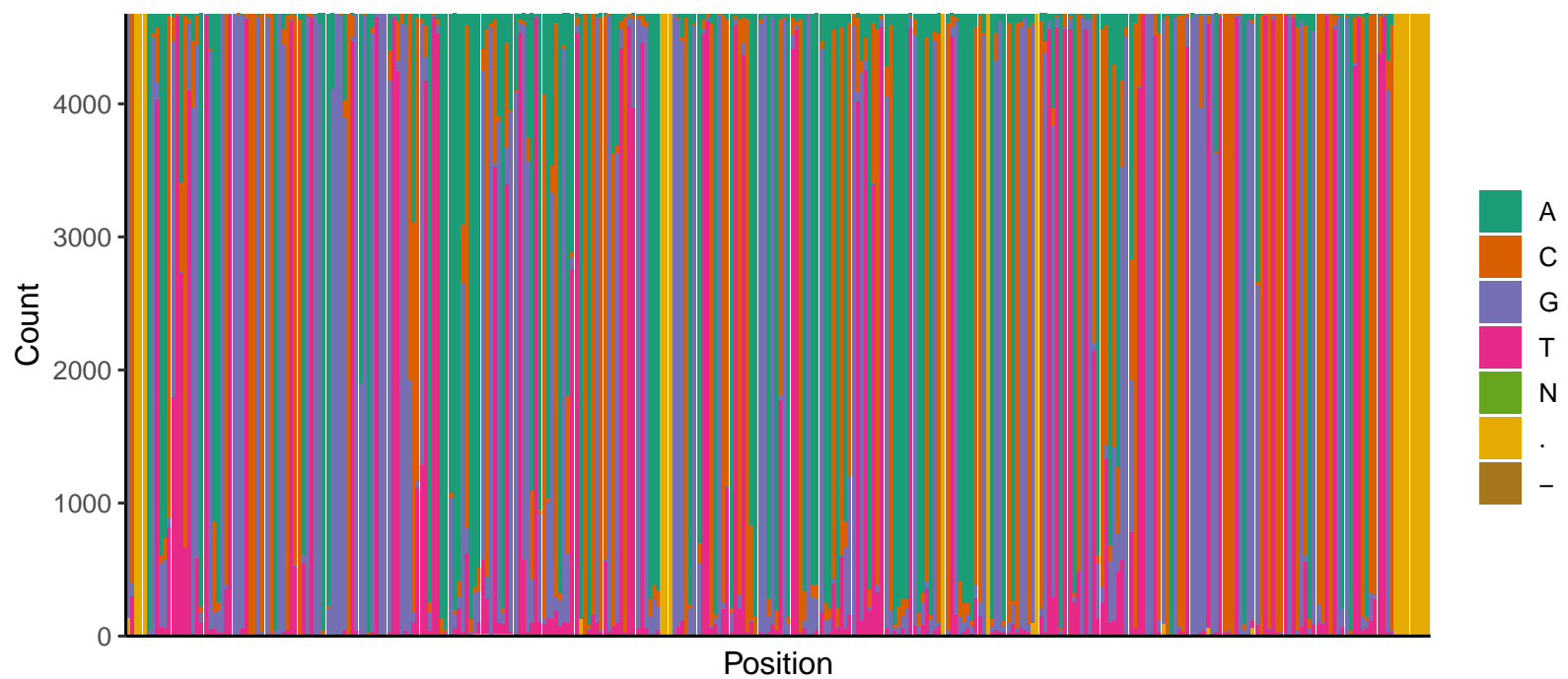
Gene IGHV3-178*01_A274G_G297A_T300C_C303G



Gene IGHV4-169*02_T60C_G61C



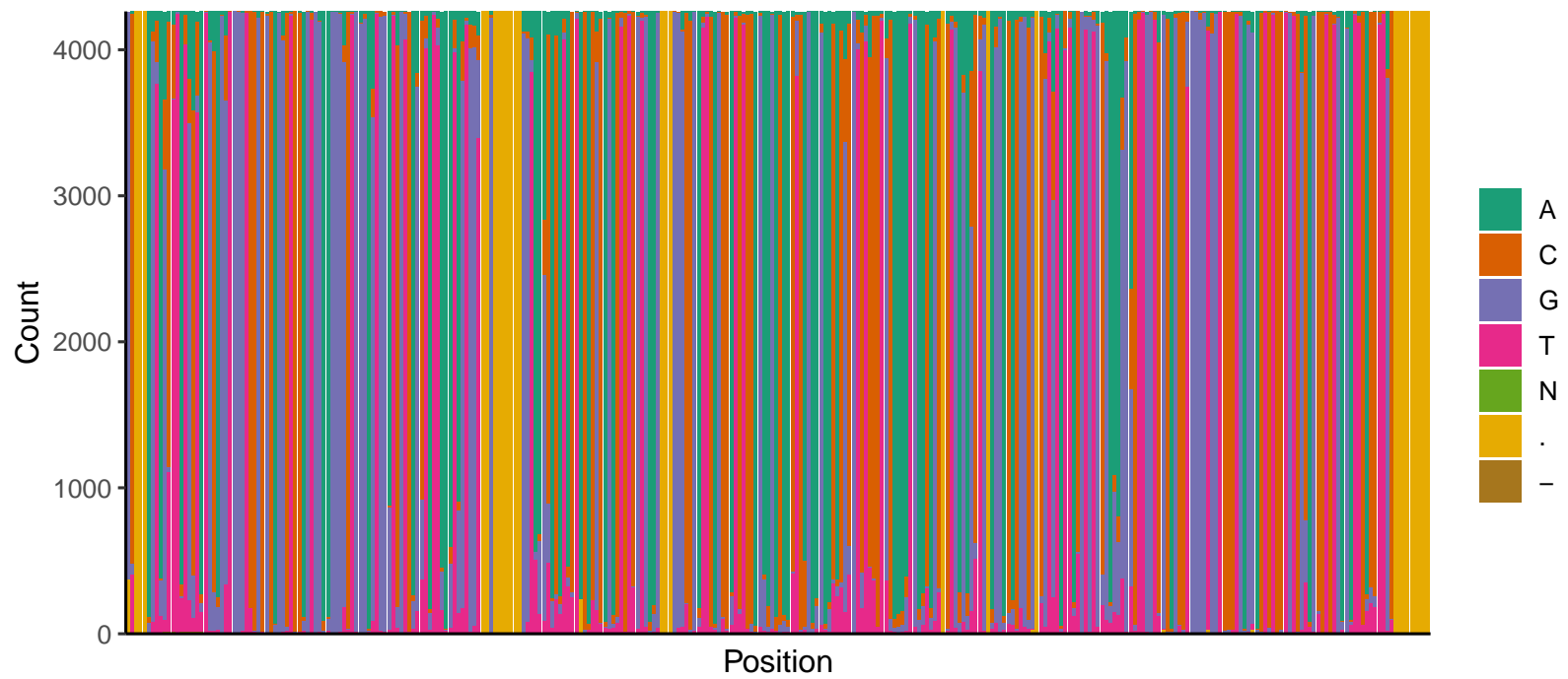
Gene IGHV3-30*01_G174C_A188G_G189A_C264T



Gene IGHV3S42*01_C27A_C38T_A39G_A40C_G113A_G114C_A118T_T120C_A133G



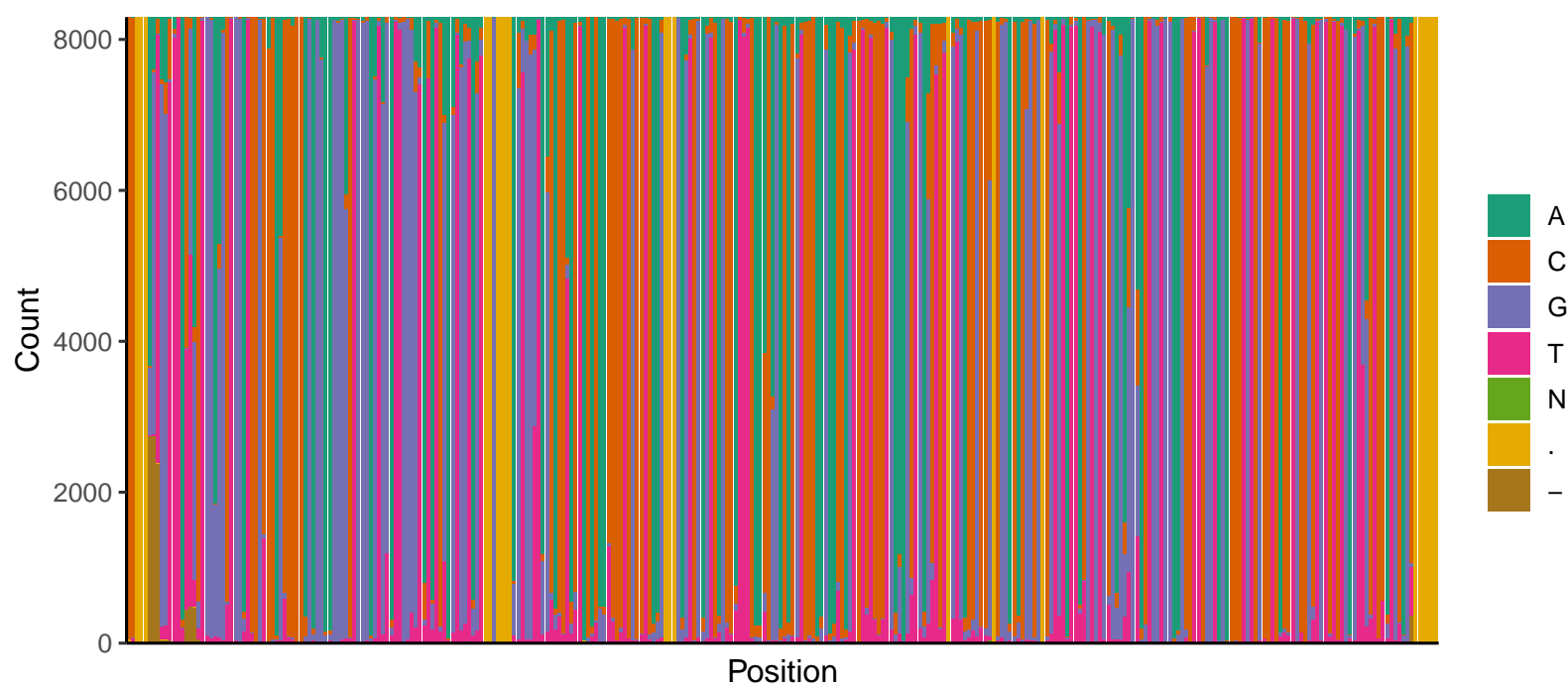
Gene IGHV3-103*01_T19A_G24A_C27A_C38T_A39C_A40C_C120G_G157A



Gene IGHV3-183*01_G202A



Gene IGHV4-127*01_G297C



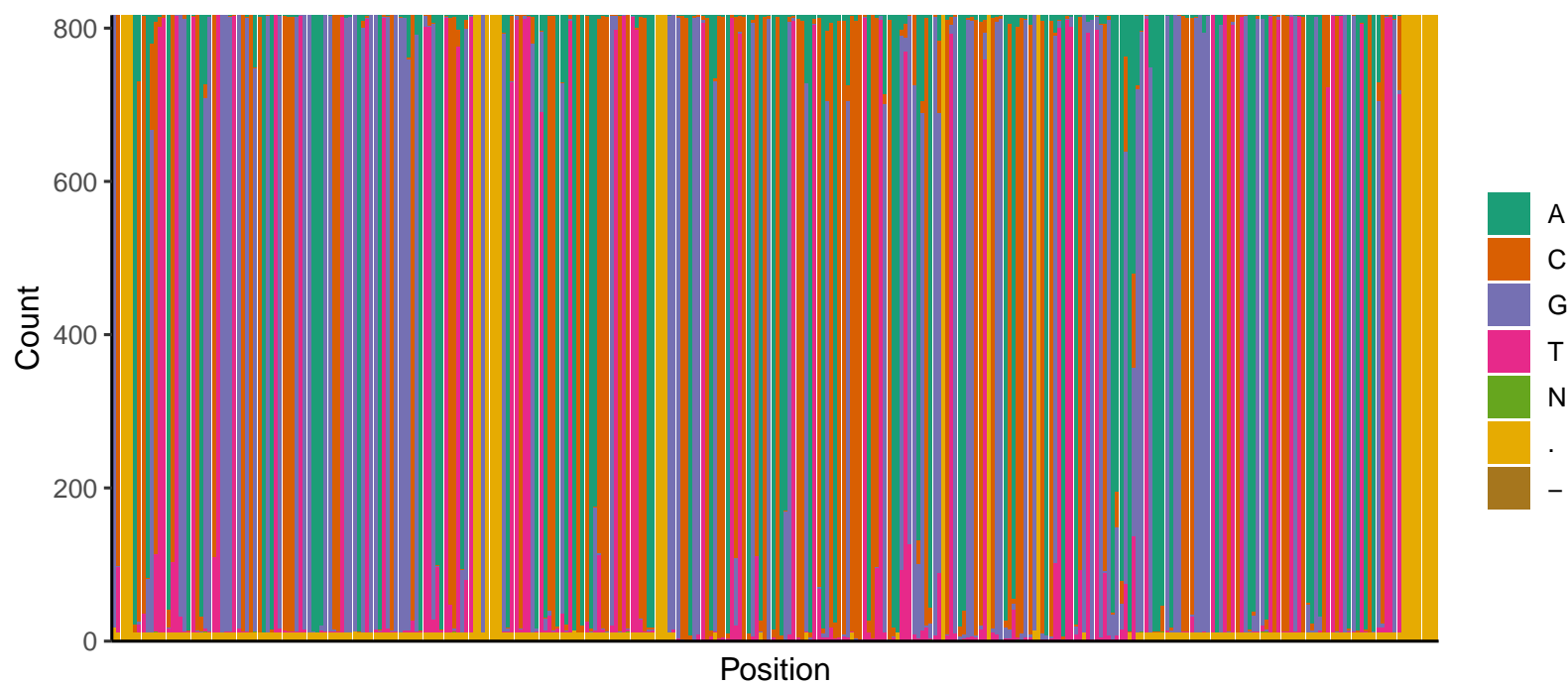
Gene IGHV4S13*01_G297C



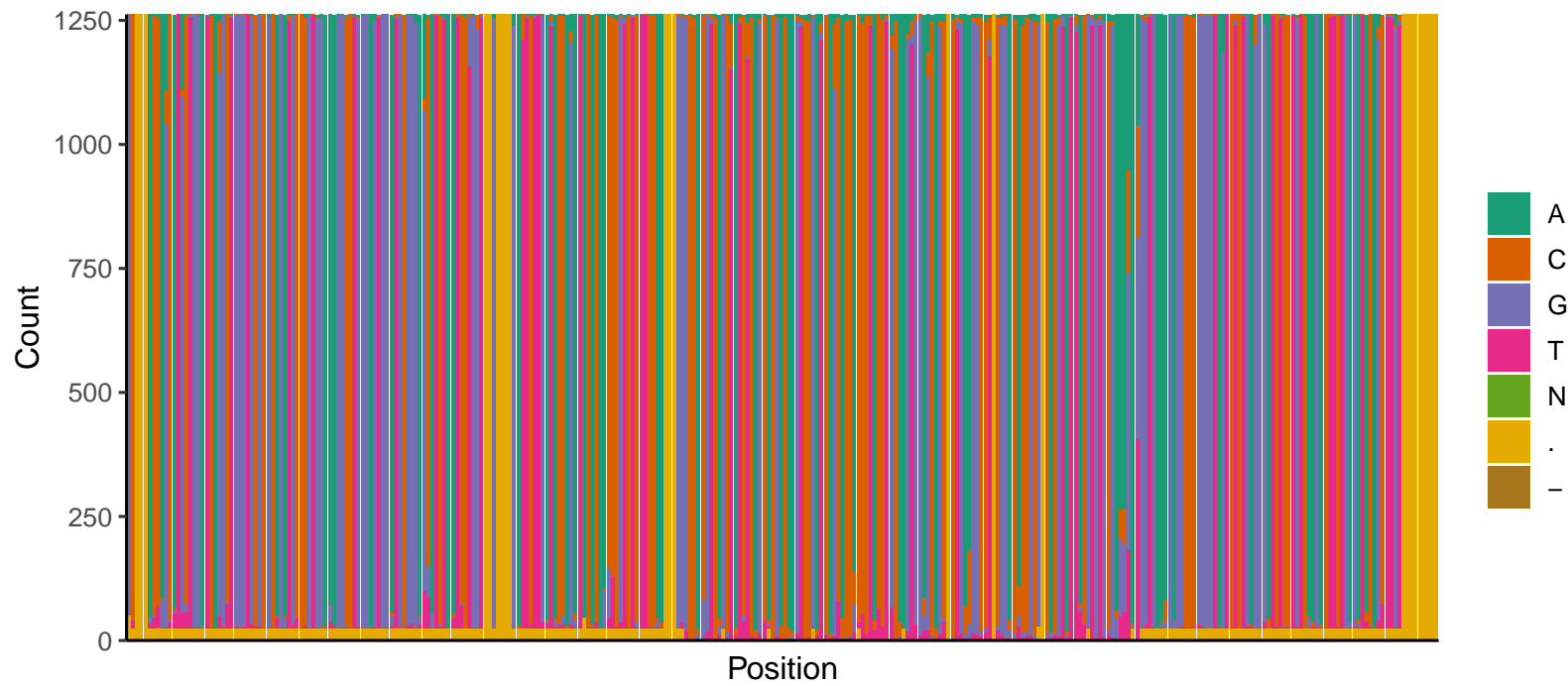
Gene IGHV4S2*01_G248C



Gene IGHV5-20*01_A141G



Gene IGHV5-43*01_A51G



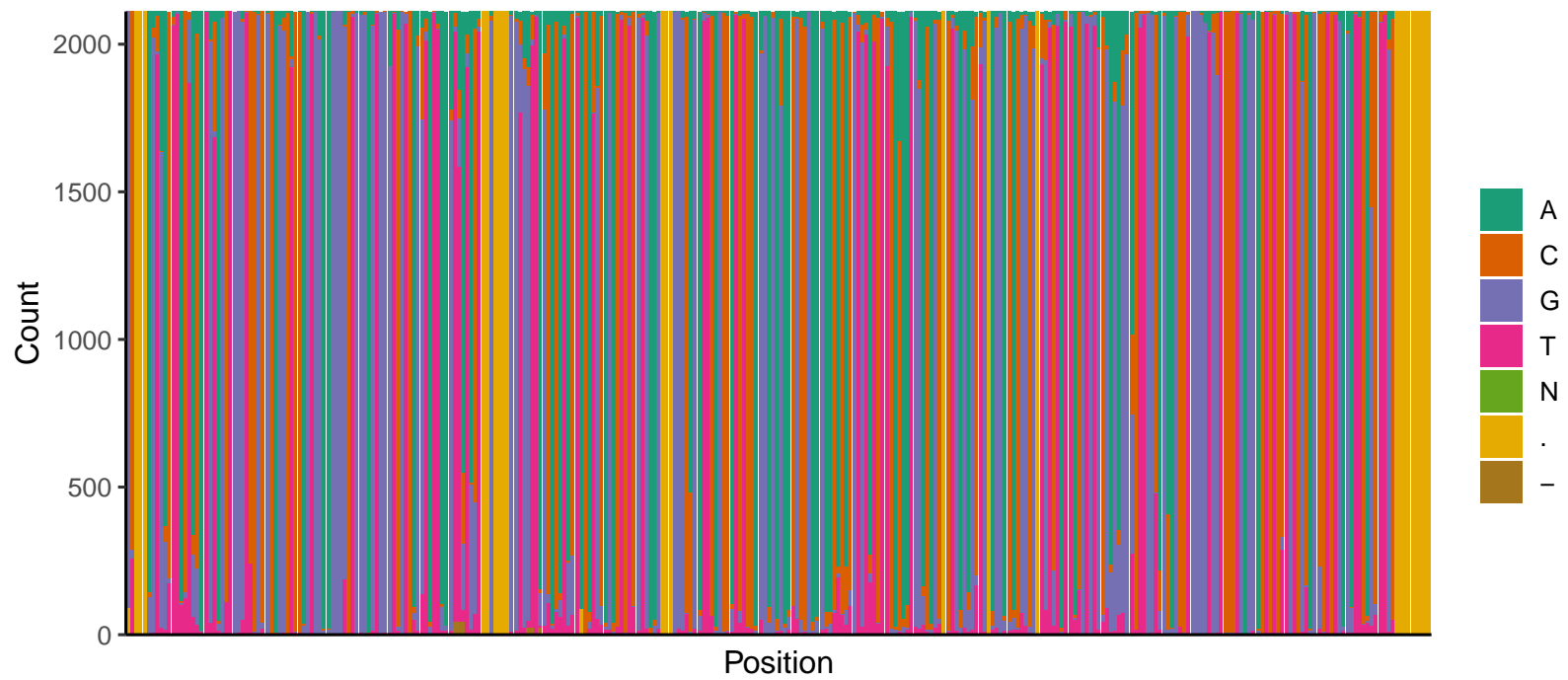
Gene IGHV2-95*01_G289T



Gene IGHV2S1*01_G289T



Gene IGHV3-59*01_C69T_C86G_C118T_T136C_C163G_A172T_G175A_G176C_G197



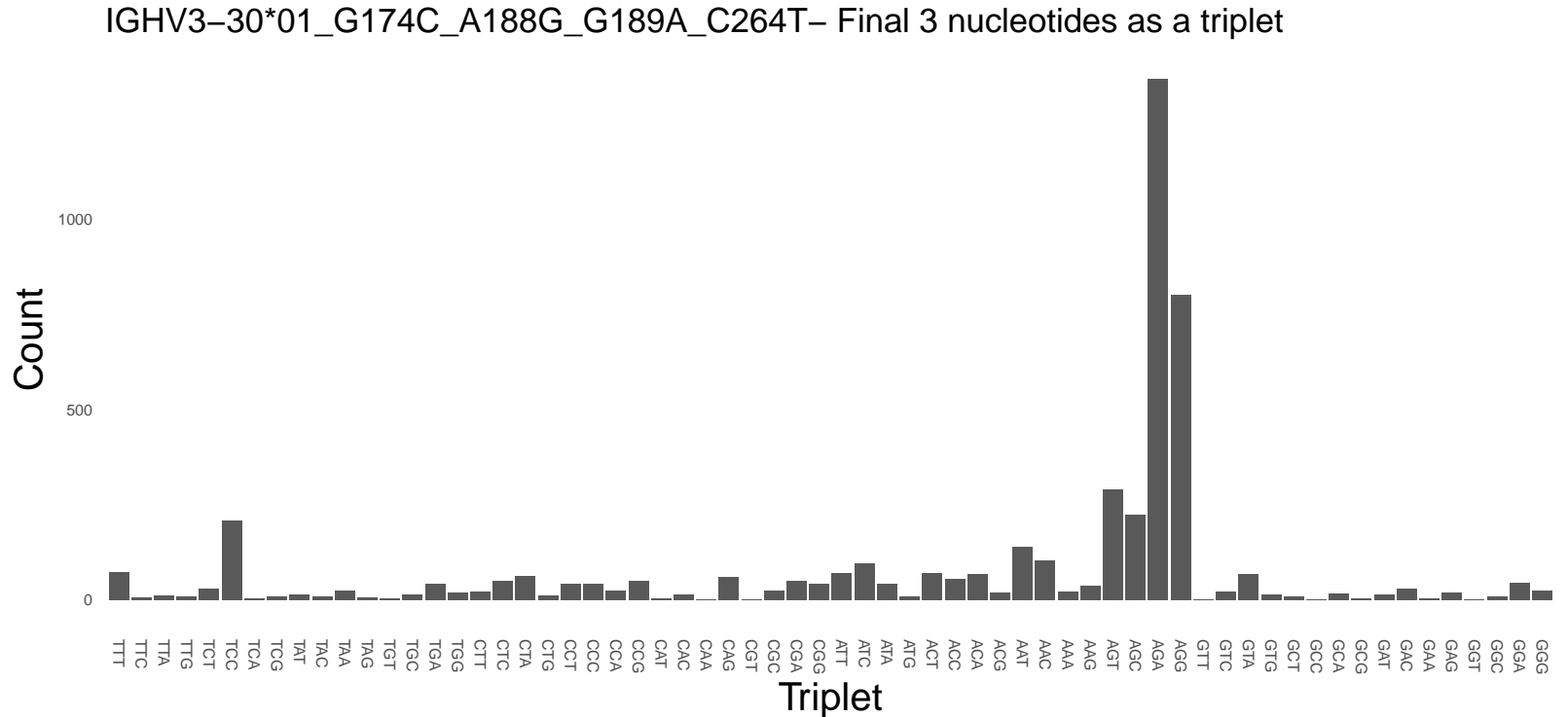
Gene IGHV3-178*01_A274G_G297A_T300C_C303G



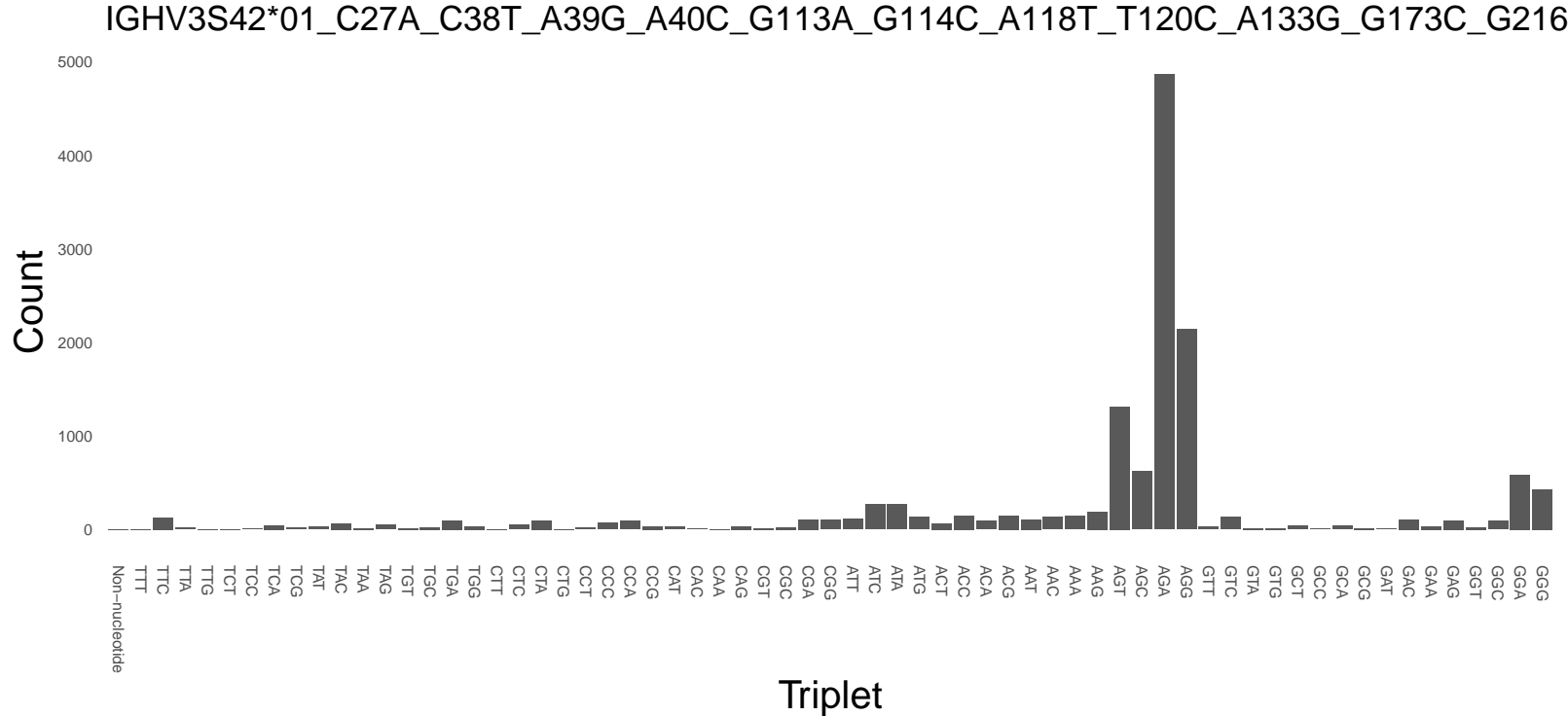
Gene IGHV4-169*02_T60C_G61C



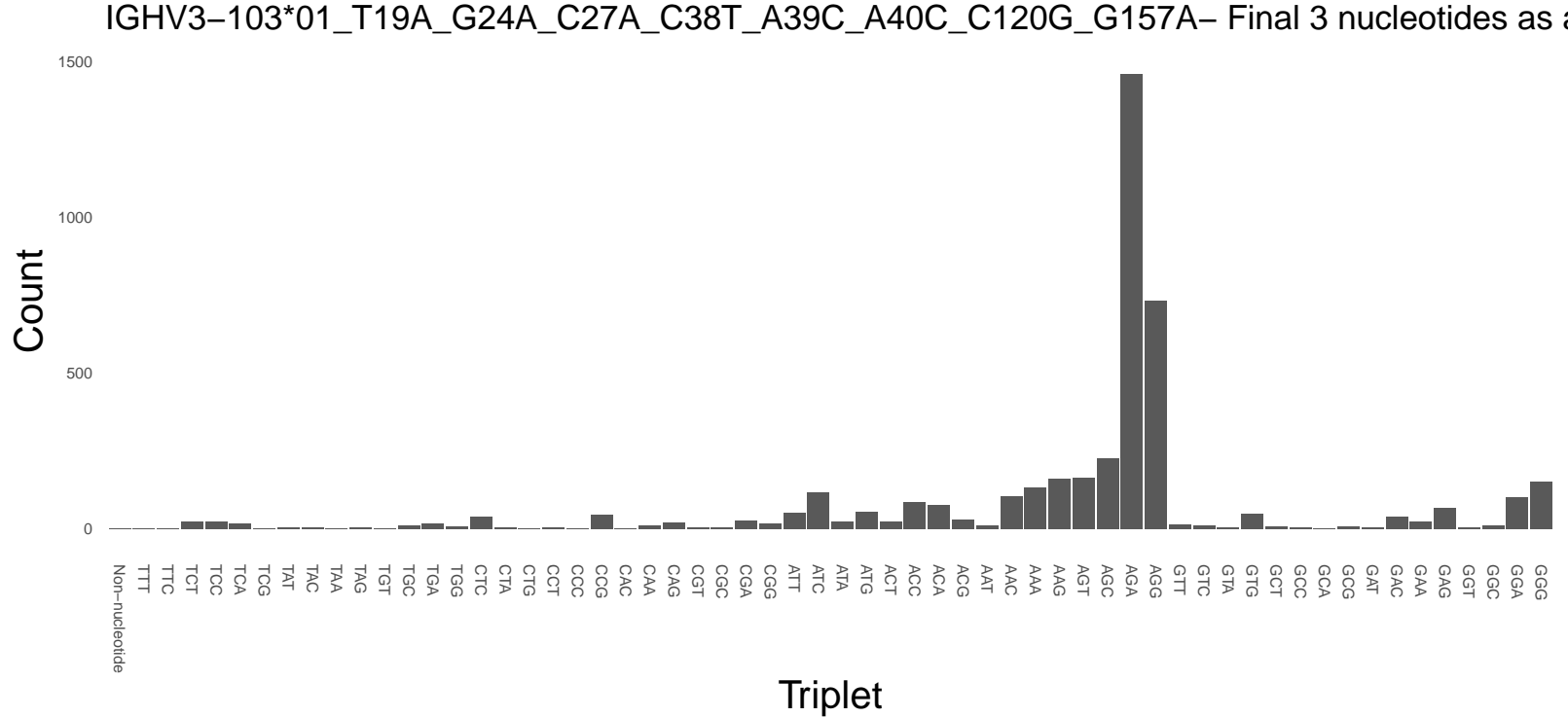
IGHV3-30*01_G174C_A188G_G189A_C264T- Final 3 nucleotides as a triplet



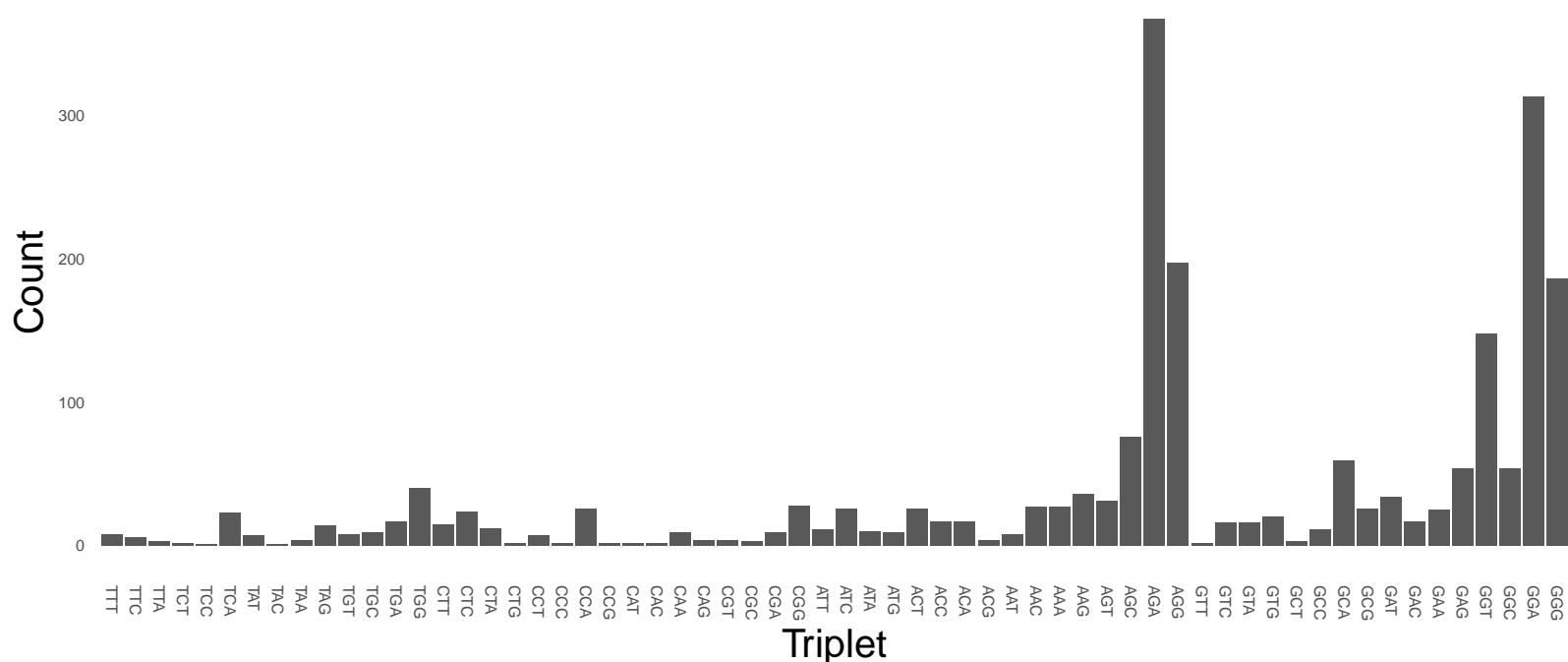
IGHV3S42*01_C27A_C38T_A39G_A40C_G113A_G114C_A118T_T120C_A133G_G173C_G216- Final 3 nucleotides as a triplet



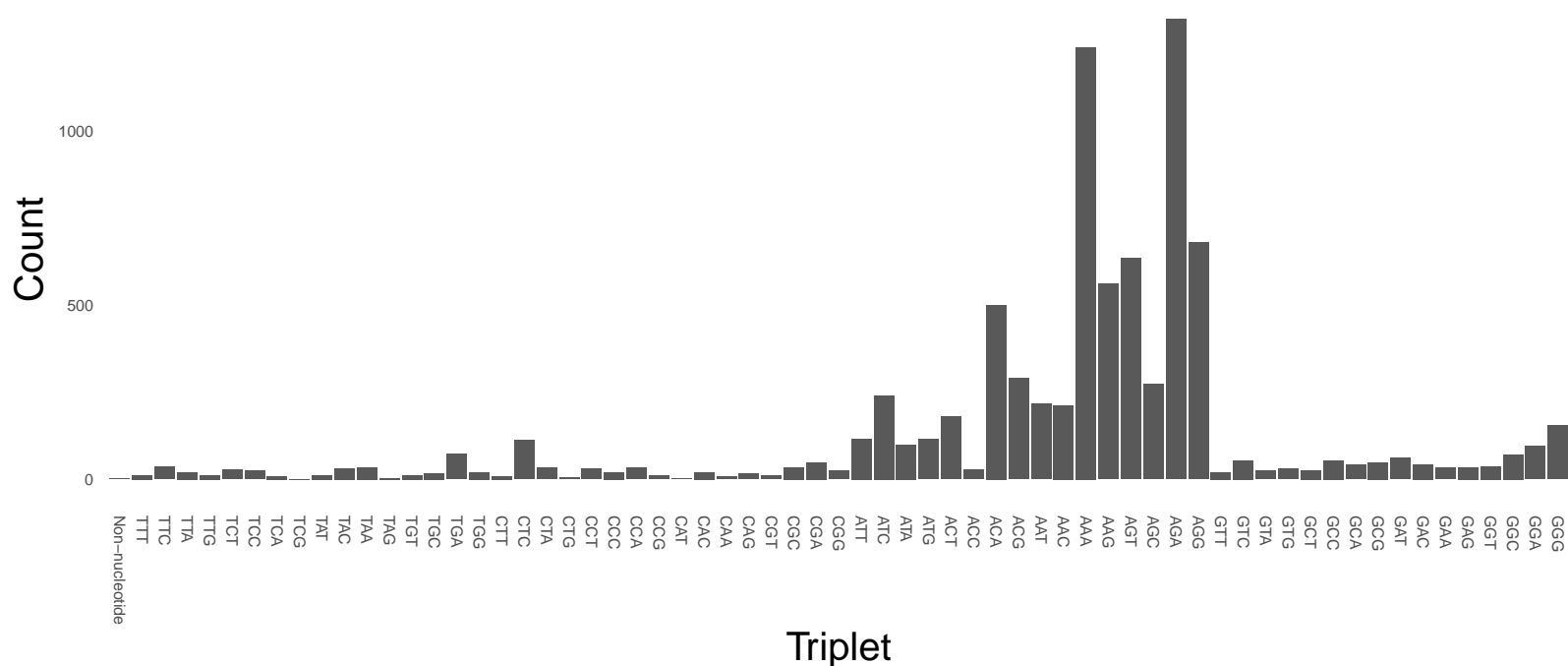
IGHV3-103*01_T19A_G24A_C27A_C38T_A39C_A40C_C120G_G157A- Final 3 nucleotides as a triplet



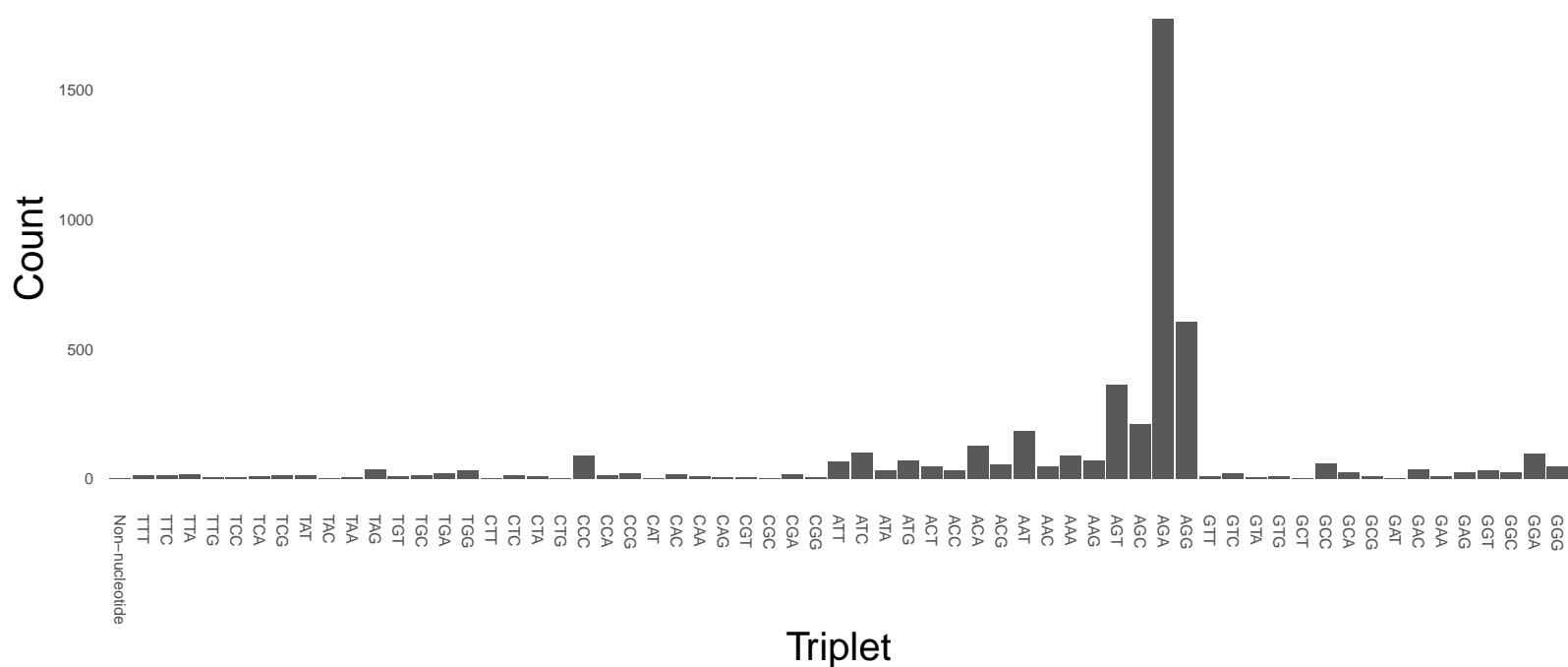
IGHV3–183*01_G202A– Final 3 nucleotides as a triplet



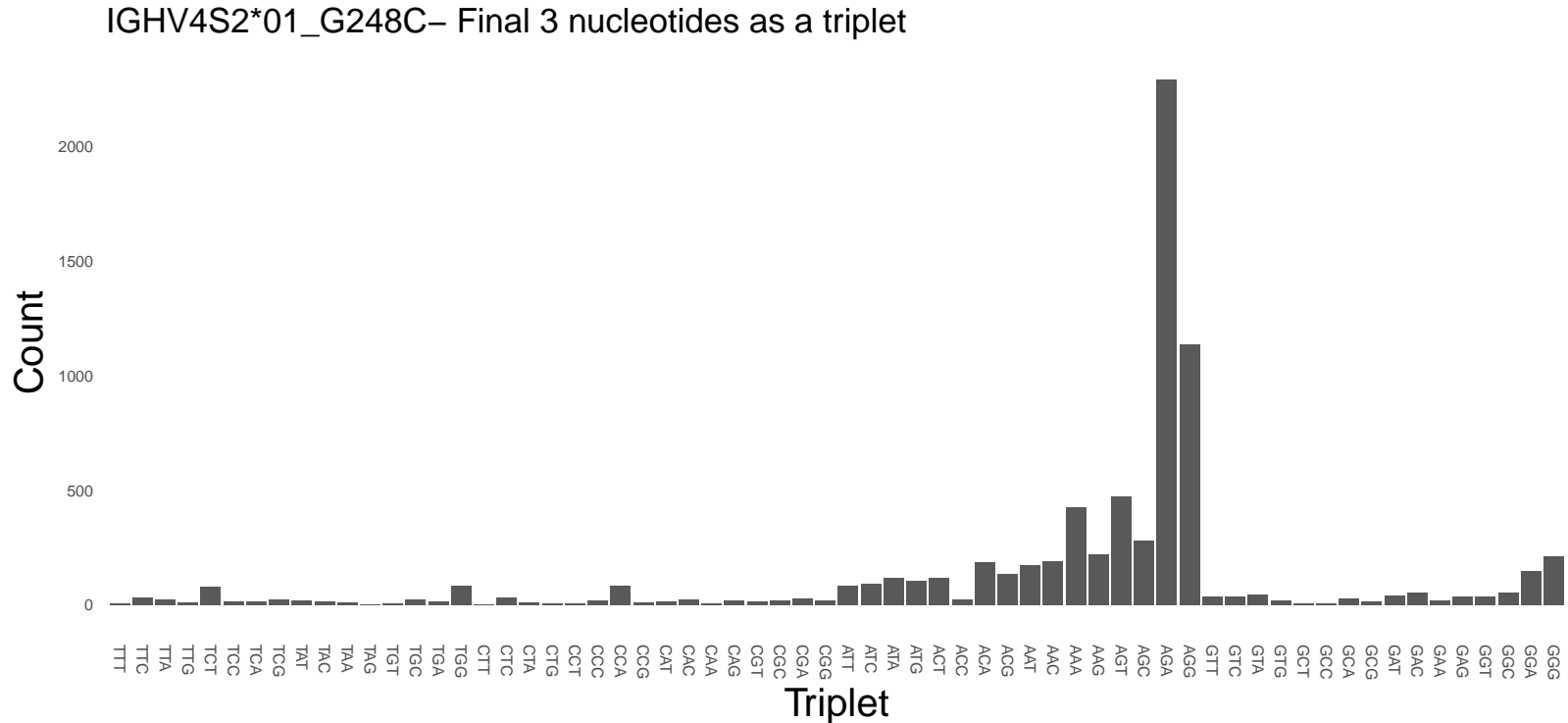
IGHV4–127*01_G297C– Final 3 nucleotides as a triplet



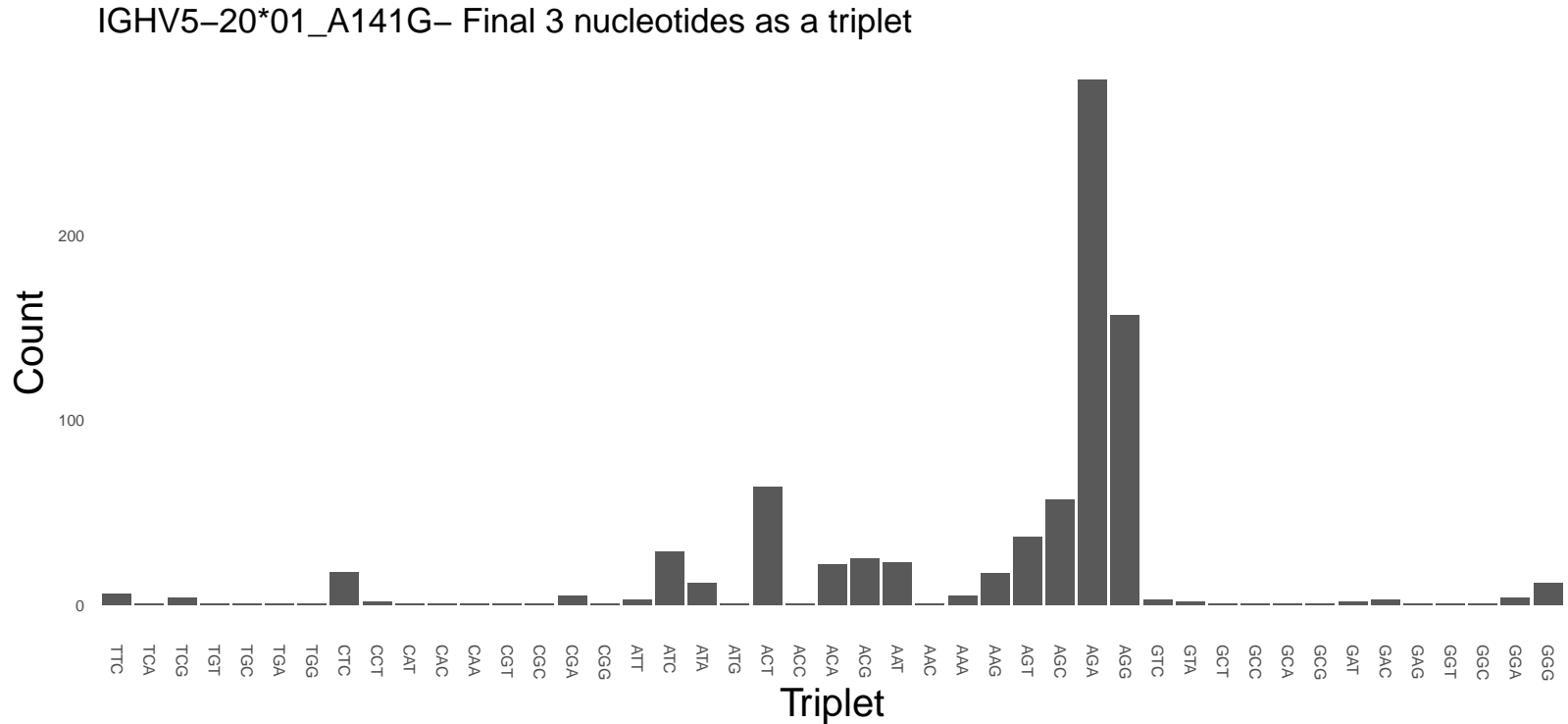
IGHV4S13*01_G297C– Final 3 nucleotides as a triplet



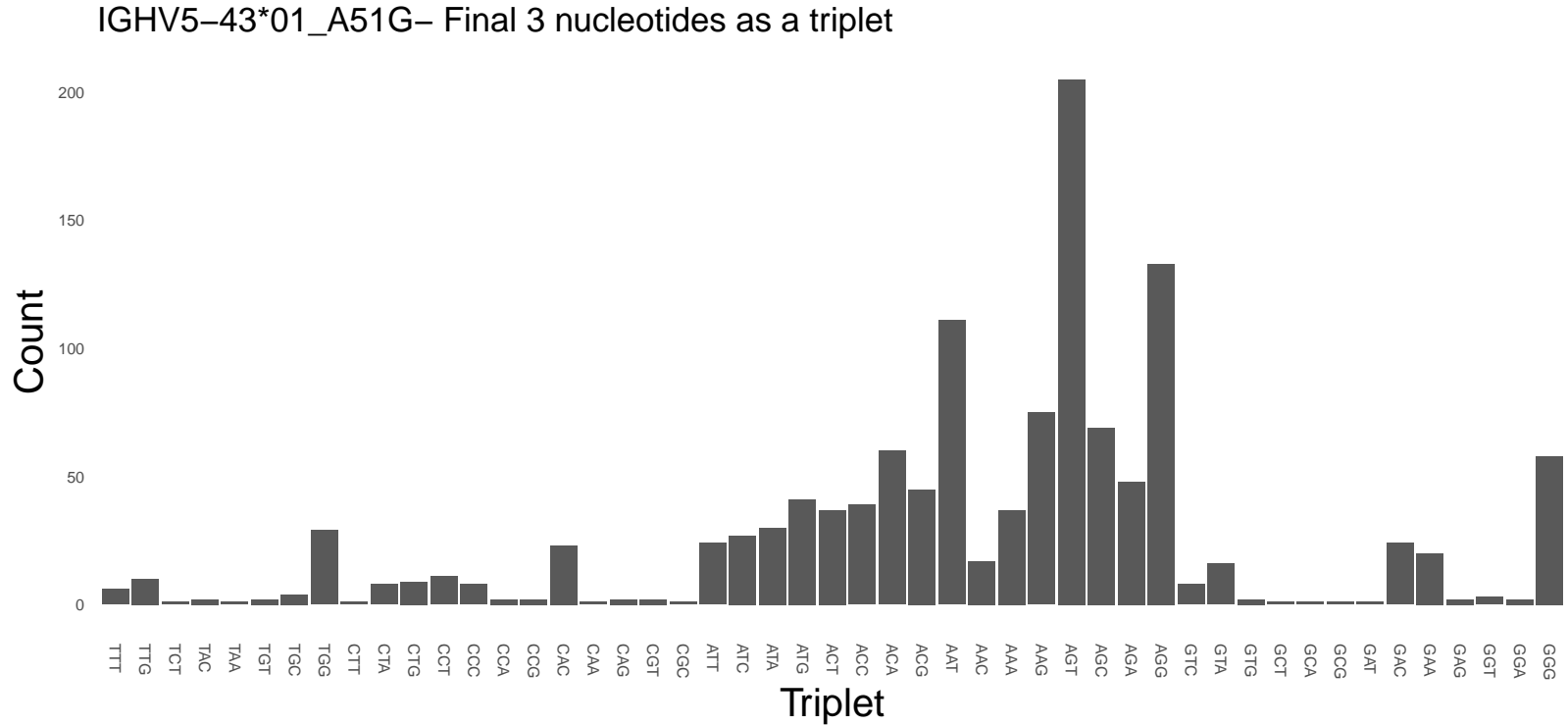
IGHV4S2*01_G248C– Final 3 nucleotides as a triplet



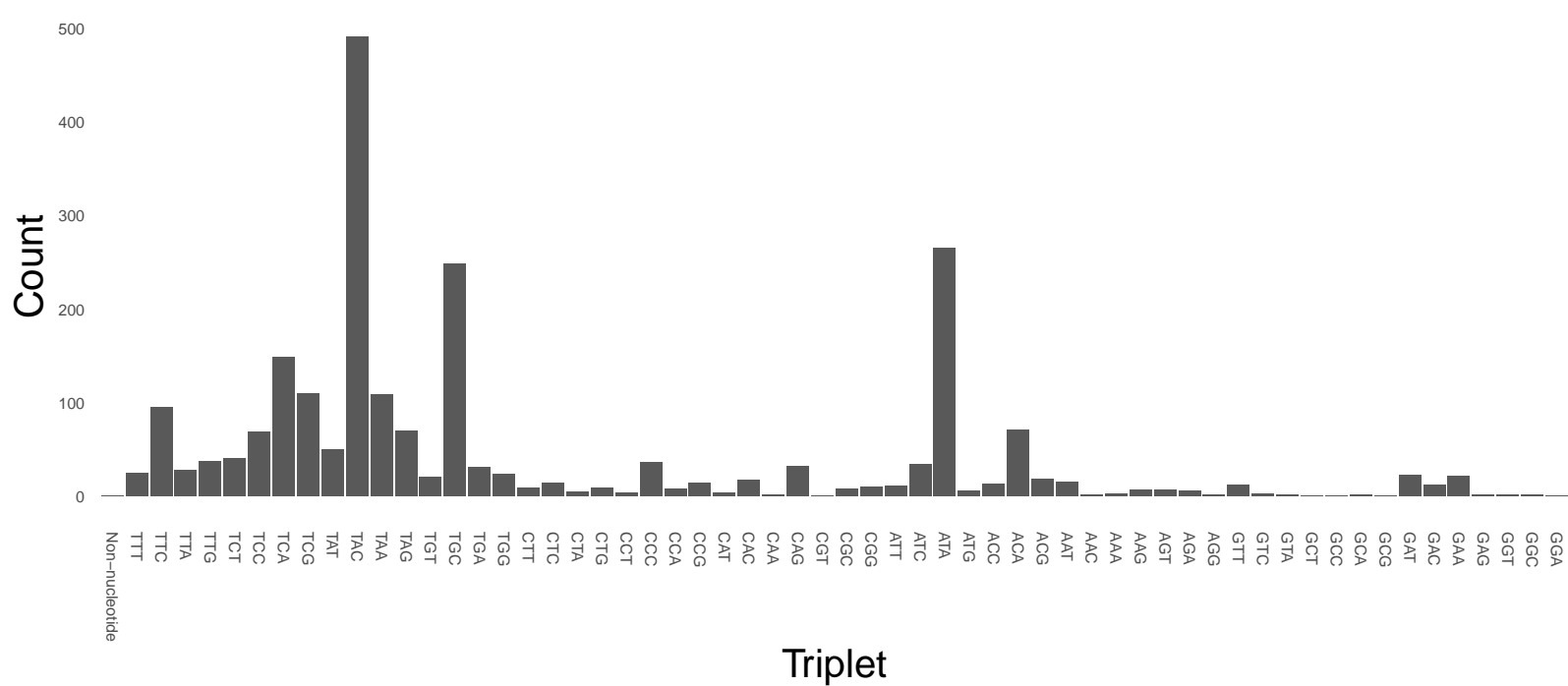
IGHV5–20*01_A141G– Final 3 nucleotides as a triplet



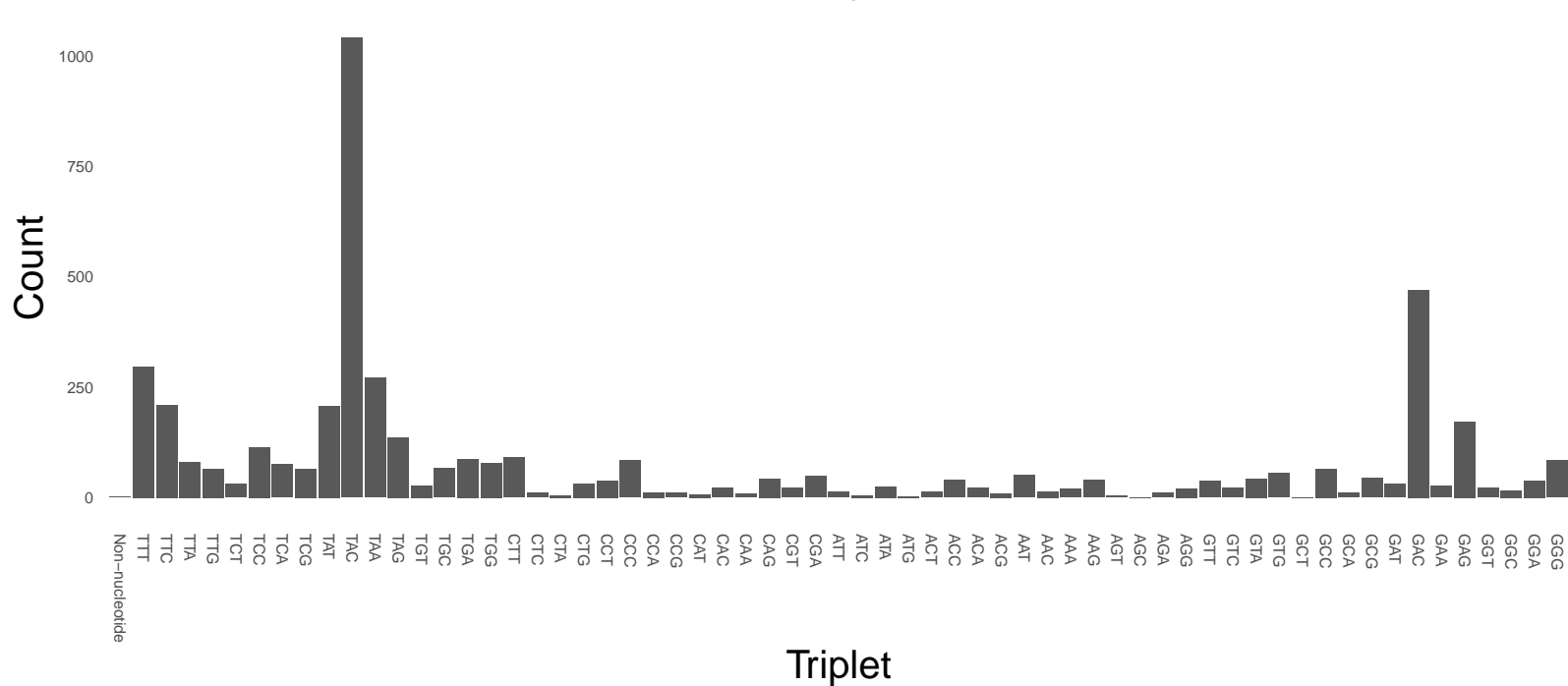
IGHV5–43*01_A51G– Final 3 nucleotides as a triplet



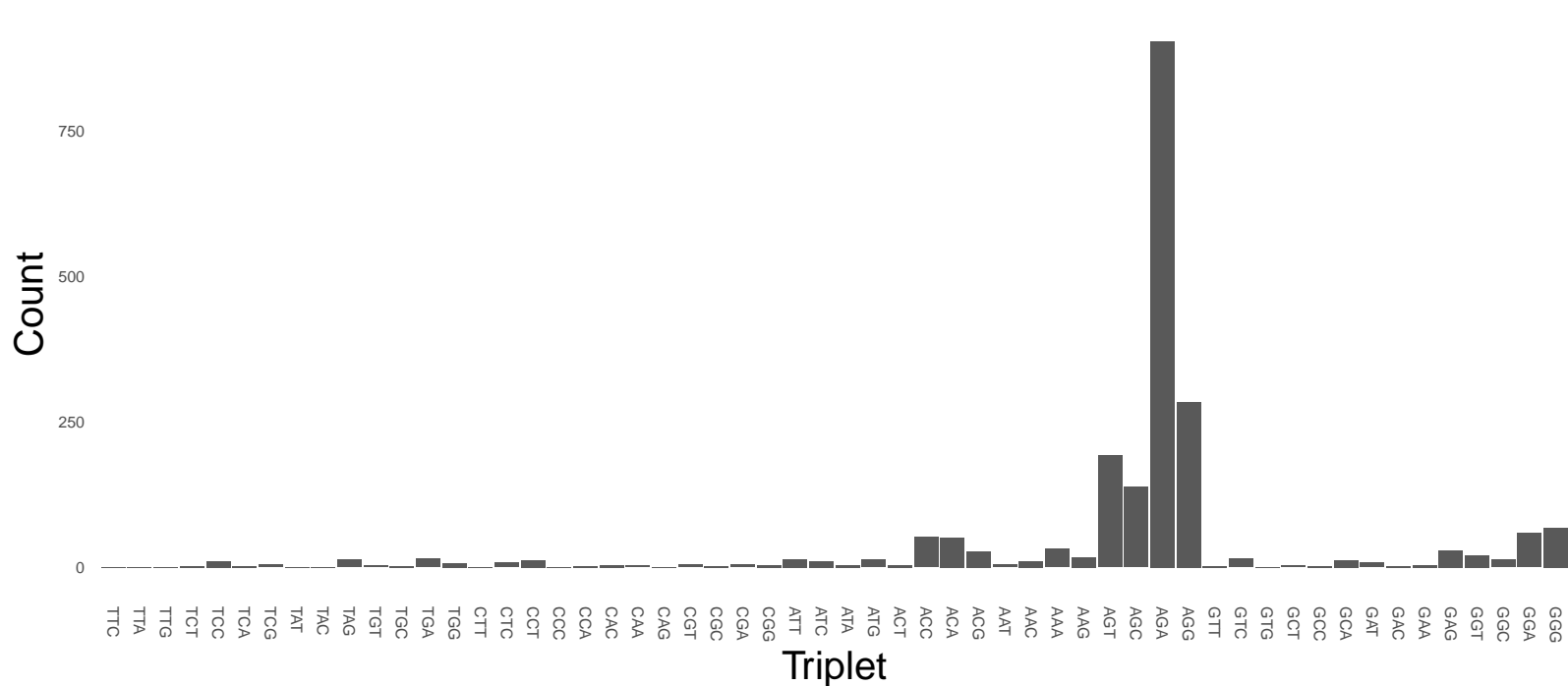
IGHV2-95*01_G289T- Final 3 nucleotides as a triplet



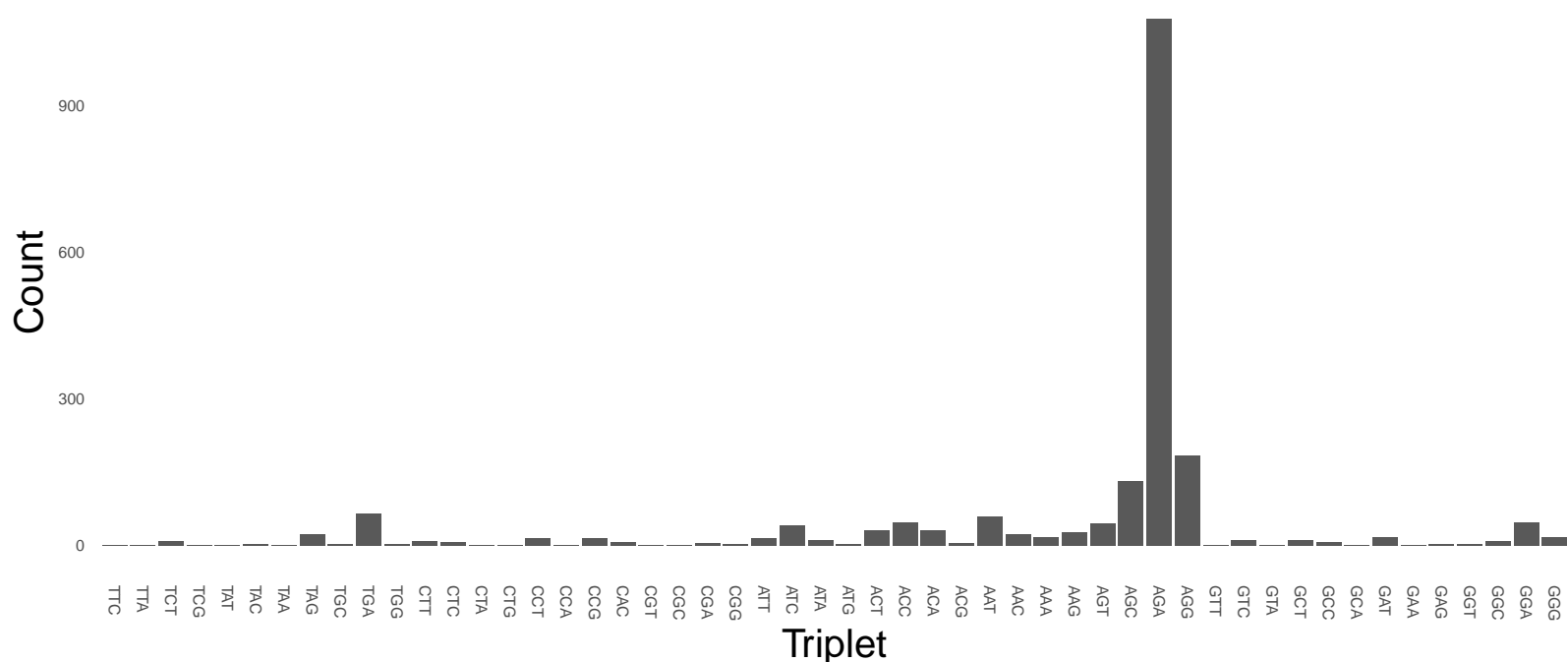
IGHV2S1*01_G289T- Final 3 nucleotides as a triplet



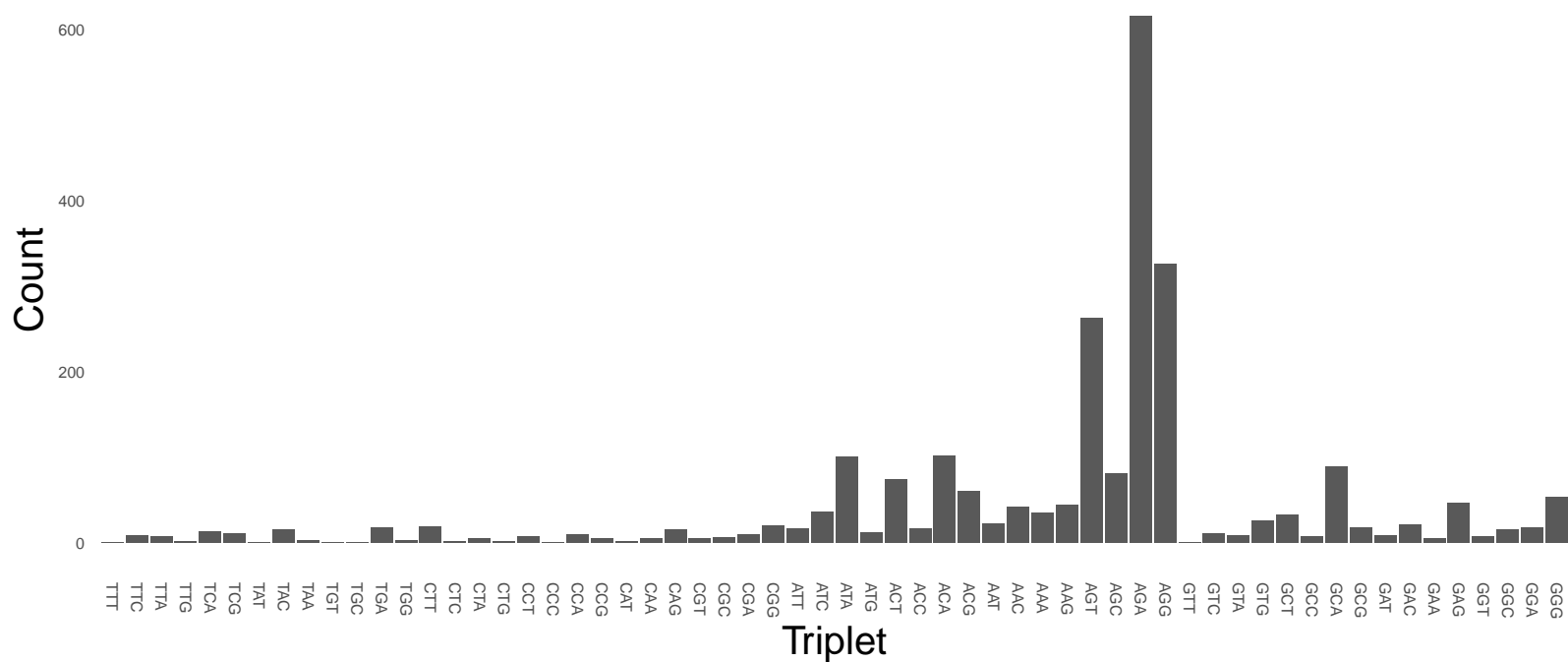
IGHV3-59*01_C69T_C86G_C118T_T136C_C163G_A172T_G175A_G176C_G197A_G198C_C200T



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

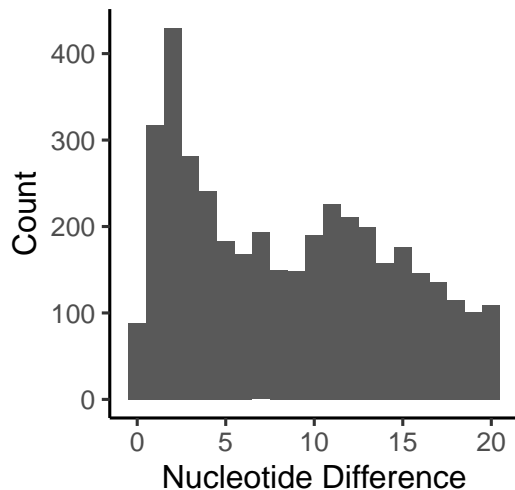


IGHV4–169*02_T60C_G61C– Final 3 nucleotides as a triplet



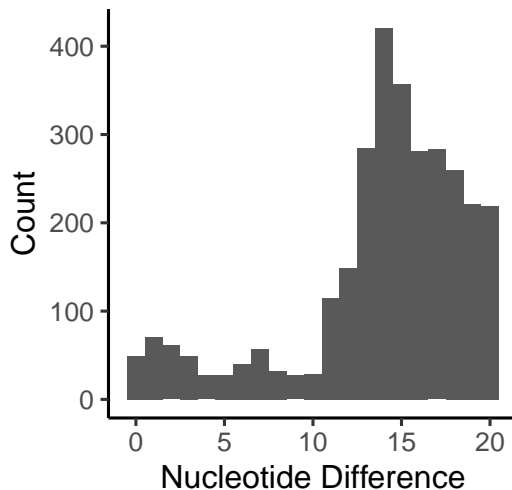
IGHV2S1*01_G289T

4713 sequences assigned
88 (1.9%) exact matches, in which:
86 unique CDR3
5 unique J



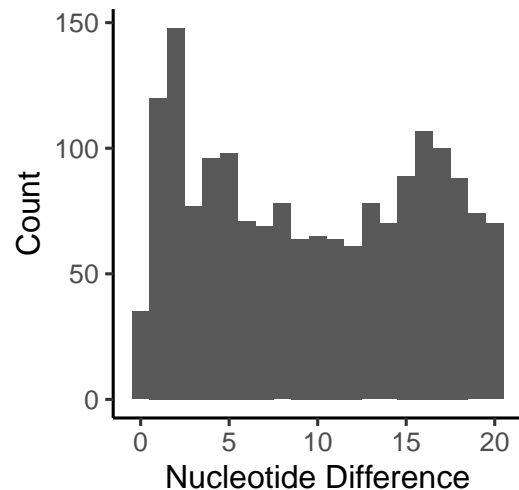
IGHV4S13*01_G297C

4722 sequences assigned
49 (1%) exact matches, in which:
47 unique CDR3
4 unique J



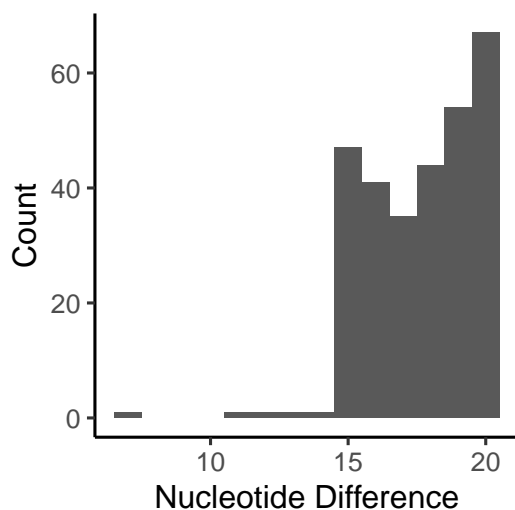
IGHV2-95*01_G289T

2321 sequences assigned
35 (1.5%) exact matches, in which:
34 unique CDR3
5 unique J



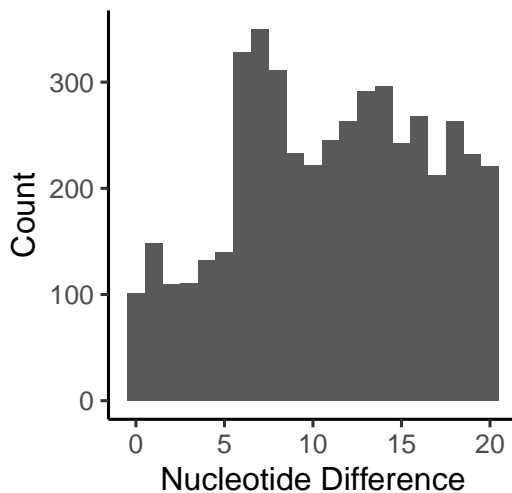
IGHV3S3*01

3227 sequences assigned
No exact matches.



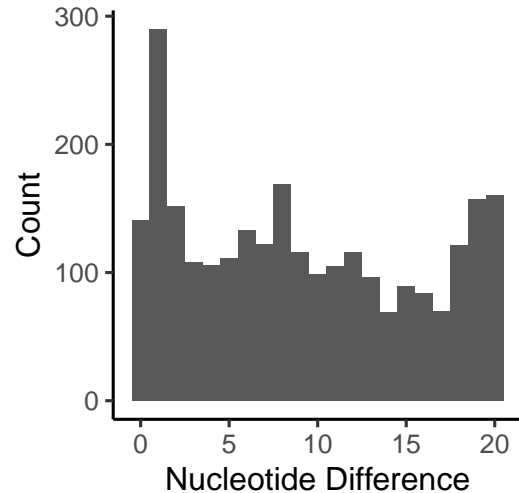
IGHV4S2*01_G248C

7535 sequences assigned
101 (1.3%) exact matches, in which:
96 unique CDR3
5 unique J



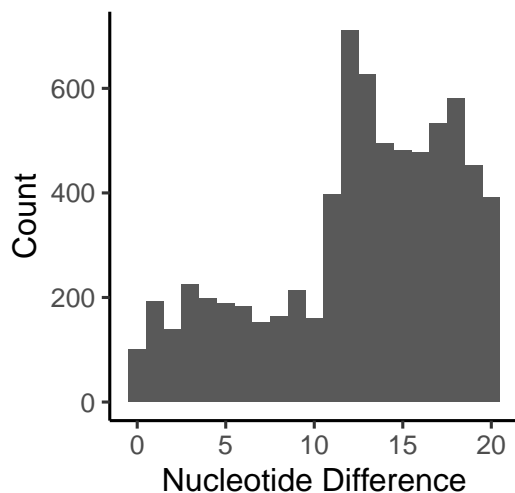
IGHV3-30*01_G174C_A

4677 sequences assigned
141 (3%) exact matches, in which:
124 unique CDR3
5 unique J



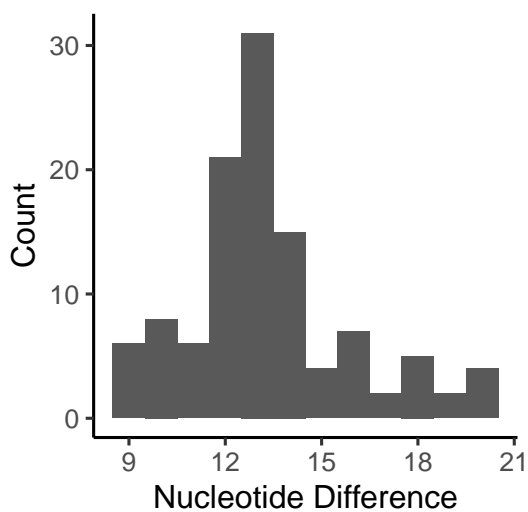
IGHV3S42*01_C27A_C38

13645 sequences assigned
100 (0.7%) exact matches, in which:
87 unique CDR3
4 unique J



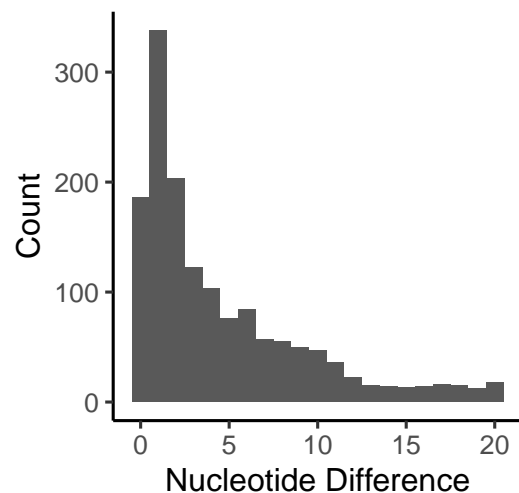
IGHV1-151*01

472 sequences assigned
No exact matches.



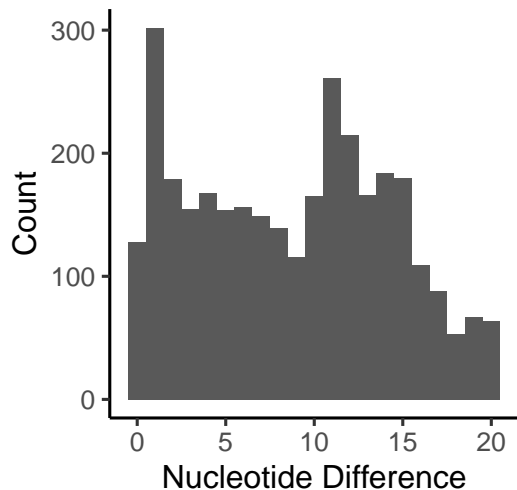
IGHV3-59*01_C69T_C86

2111 sequences assigned
186 (8.8%) exact matches, in which:
166 unique CDR3
5 unique J



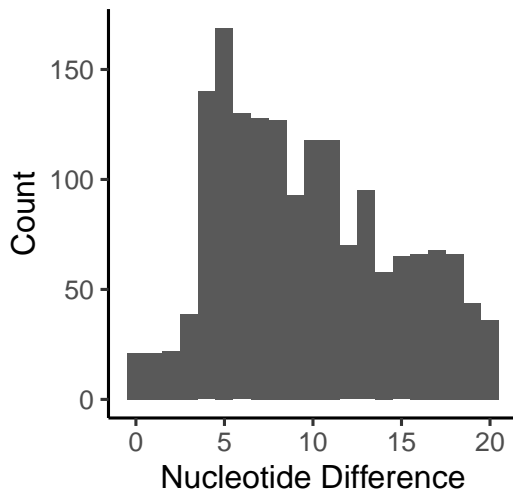
IGHV3-103*01_T19A_G2

4263 sequences assigned
128 (3%) exact matches, in which:
116 unique CDR3
4 unique J



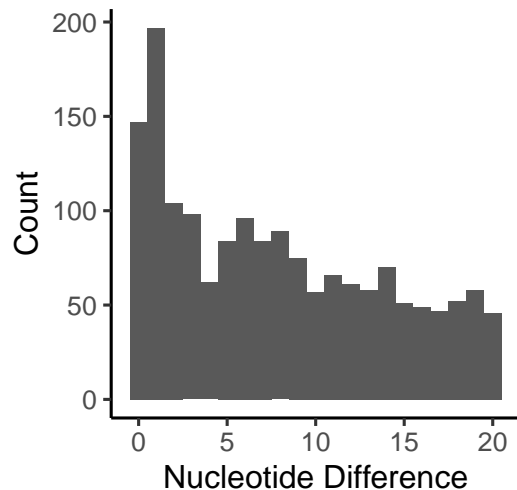
IGHV3-178*01_A274G_C

2077 sequences assigned
21 (1%) exact matches, in which:
20 unique CDR3
4 unique J



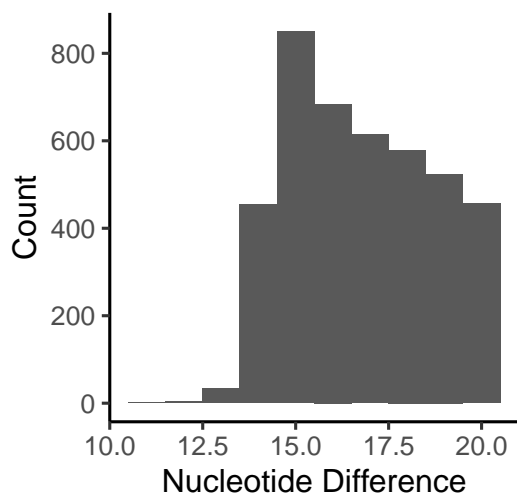
IGHV4-169*02_T60C_G6

2417 sequences assigned
147 (6.1%) exact matches, in which:
135 unique CDR3
5 unique J



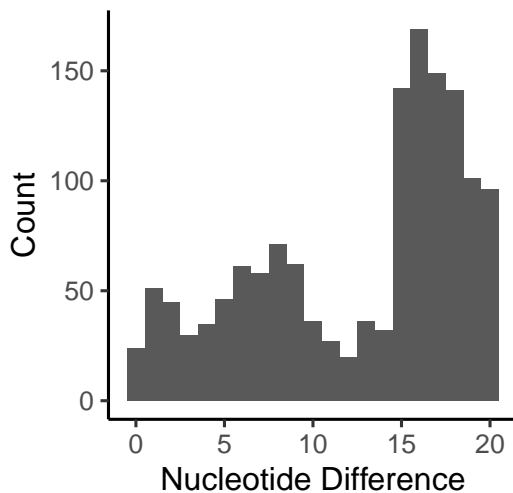
IGHV3-108*01

9755 sequences assigned
No exact matches.



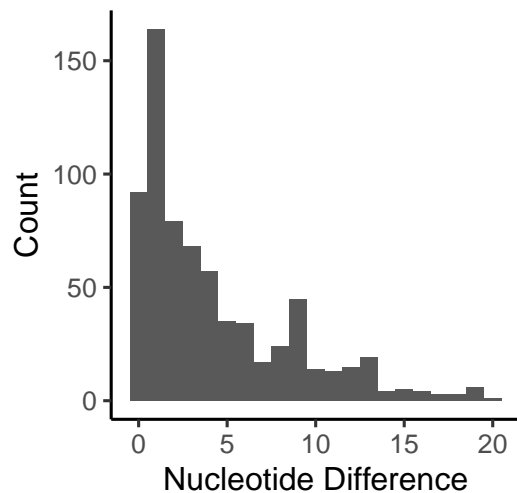
IGHV3-183*01_G202A

2167 sequences assigned
24 (1.1%) exact matches, in which:
21 unique CDR3
4 unique J



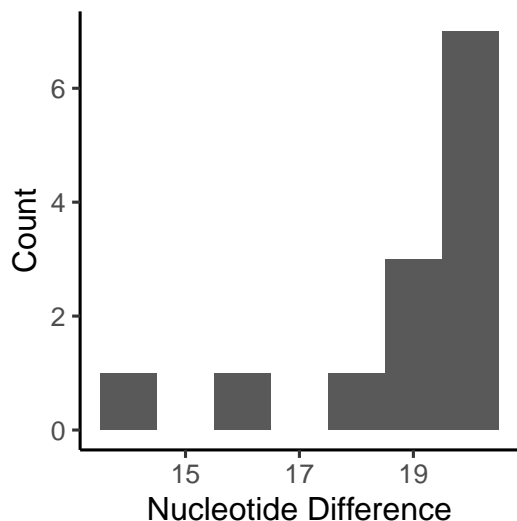
IGHV5-20*01_A141G

817 sequences assigned
92 (11.3%) exact matches, in which:
82 unique CDR3
5 unique J



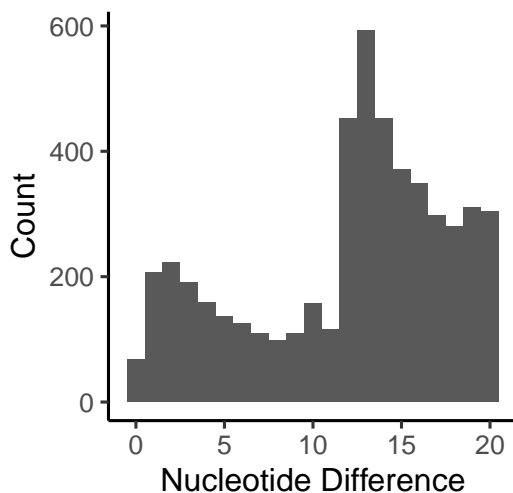
IGHV3-137*01

1659 sequences assigned
No exact matches.



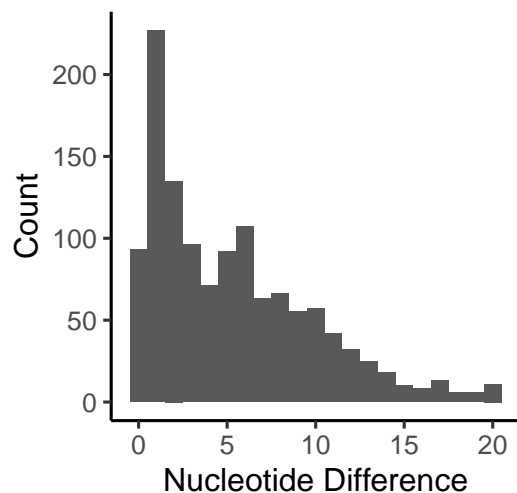
IGHV4-127*01_G297C

8296 sequences assigned
68 (0.8%) exact matches, in which:
66 unique CDR3
5 unique J



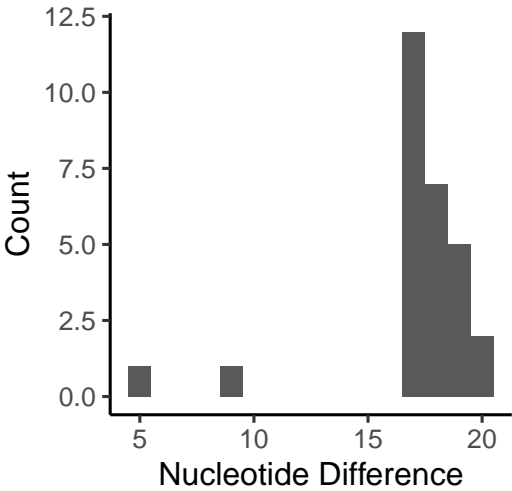
IGHV5-43*01_A51G

1262 sequences assigned
93 (7.4%) exact matches, in which:
77 unique CDR3
5 unique J



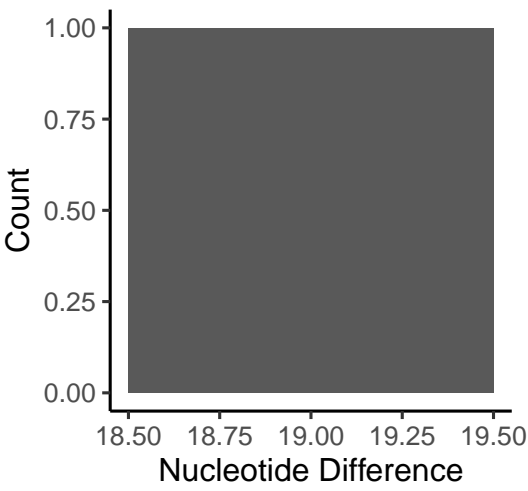
IGHV7-94*01

35 sequences assigned
No exact matches.

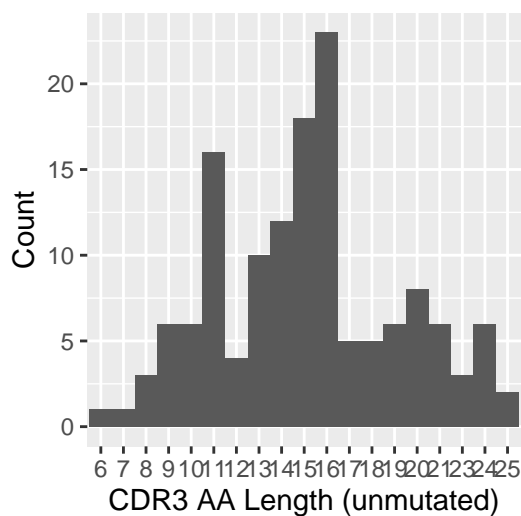


IGHV7-128*01

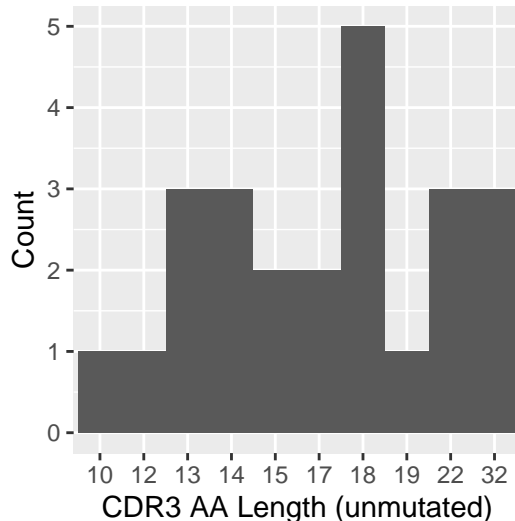
2 sequences assigned
No exact matches.



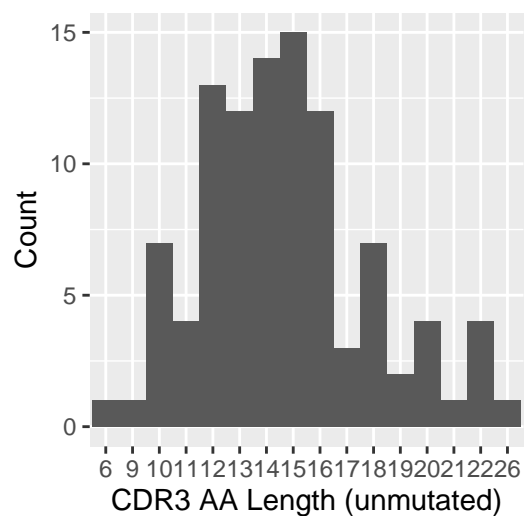
IGHV3-30*01_G174C_A188



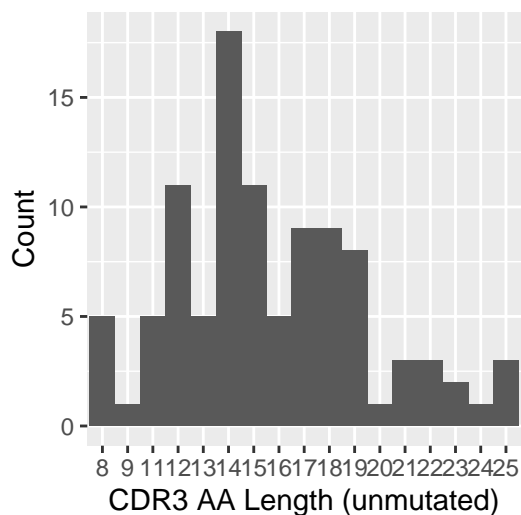
IGHV3-183*01_G202A



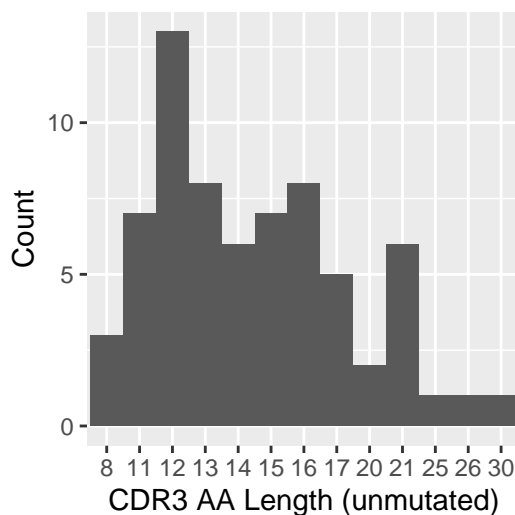
IGHV4S2*01_G248C



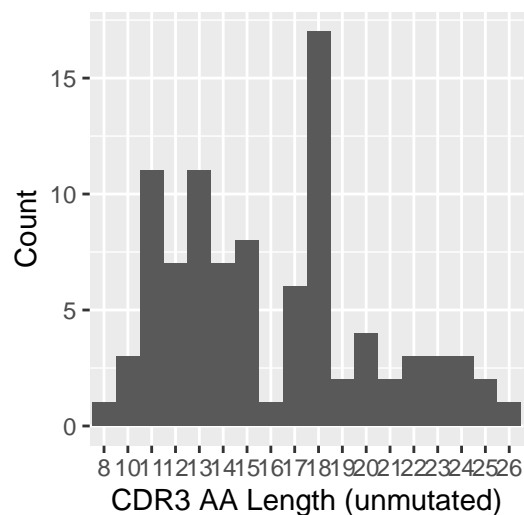
IGHV3S42*01_C27A_C38T_



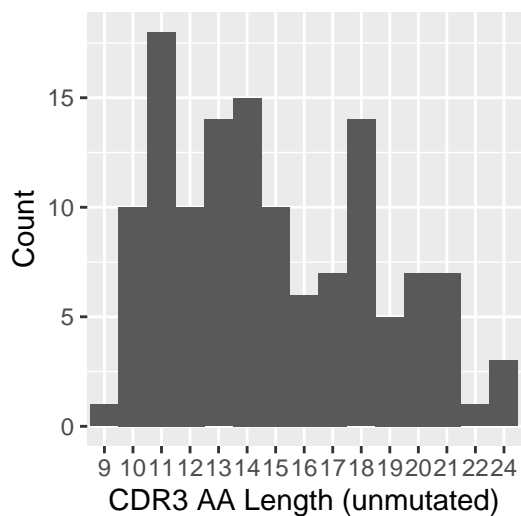
IGHV4-127*01_G297C



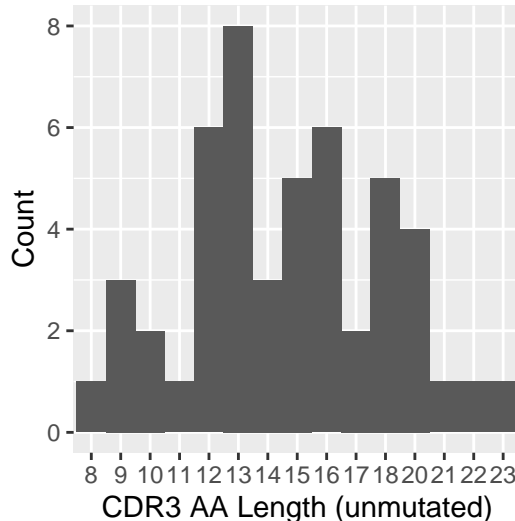
IGHV5-20*01_A141G



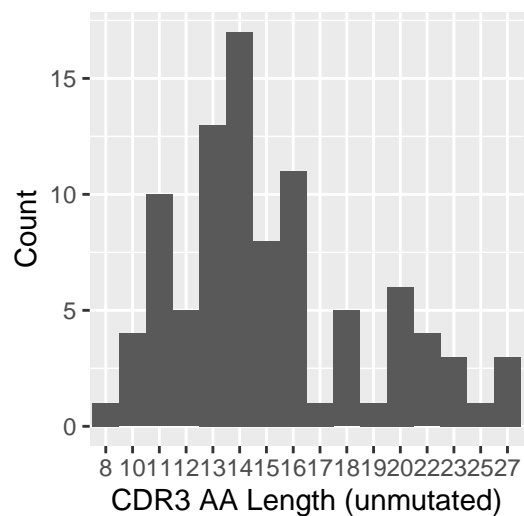
IGHV3-103*01_T19A_G24A_



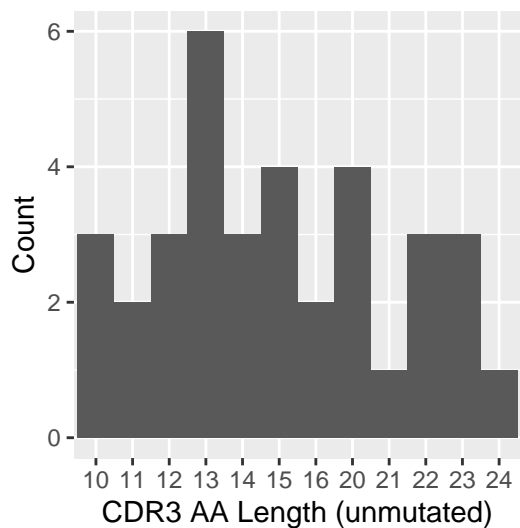
IGHV4S13*01_G297C



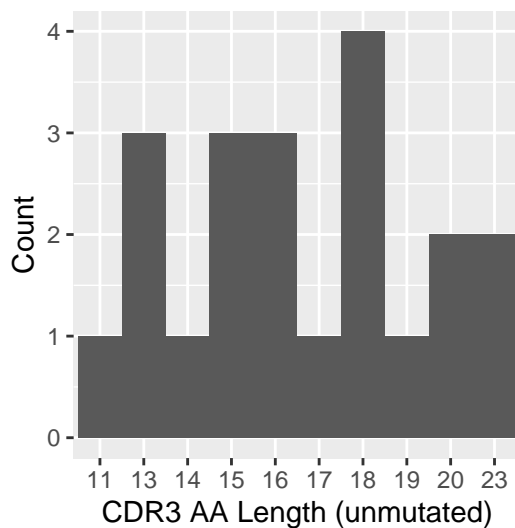
IGHV5-43*01_A51G



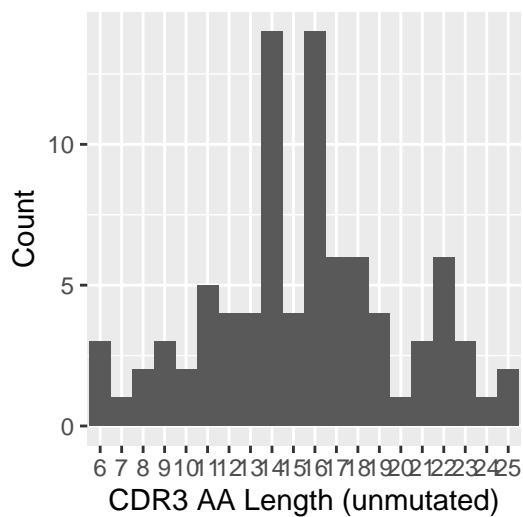
IGHV2-95*01_G289T



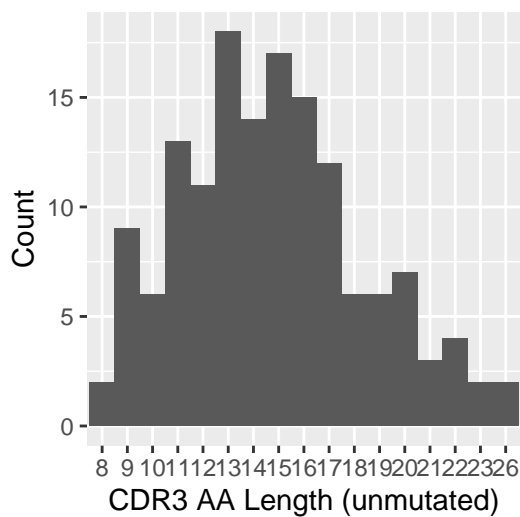
IGHV3-178*01_A274G_G297A_T300C_C303G



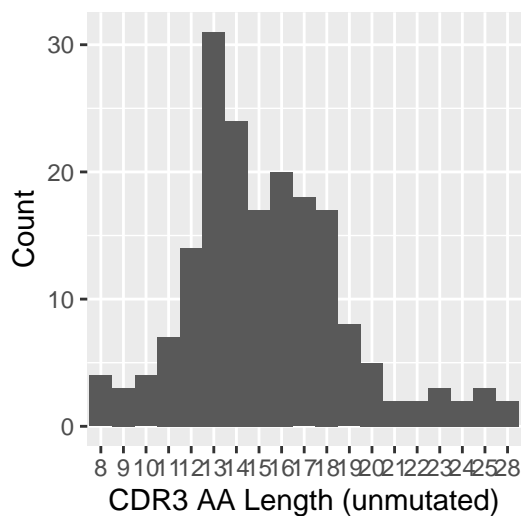
IGHV2S1*01_G289T

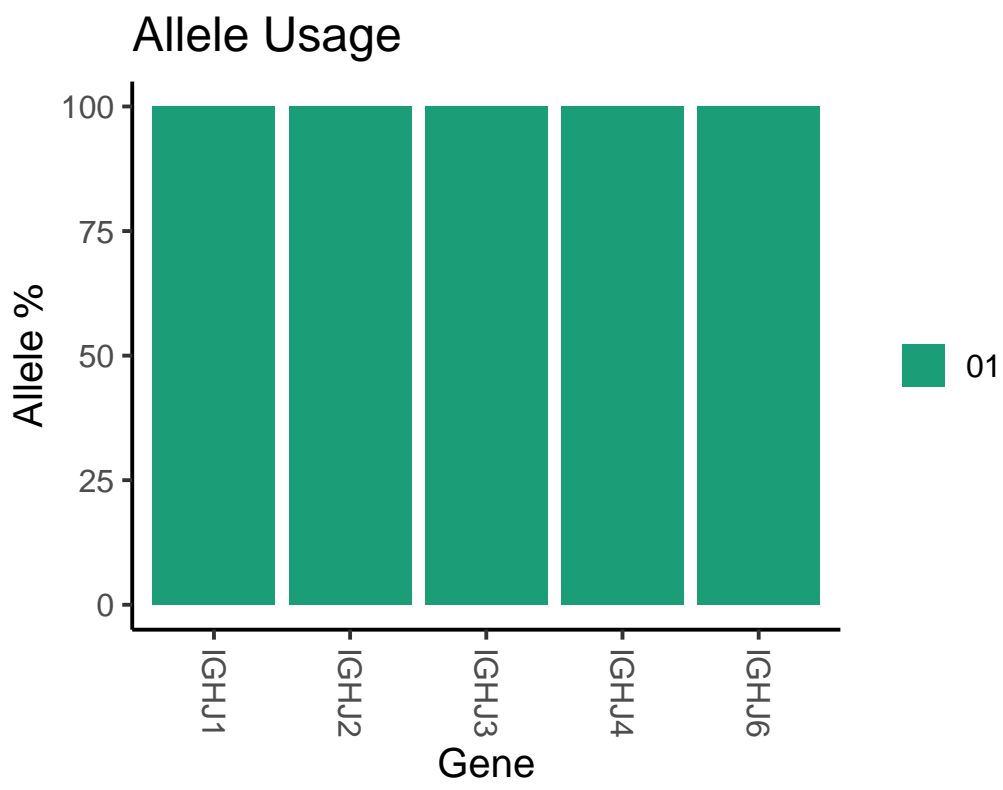


IGHV4-169*02_T60C_G61C



IGHV3-59*01_C69T_C86G_C118T_T136C_C163G_A172T_G175A_G176C_G197A_G198C_C200G





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.