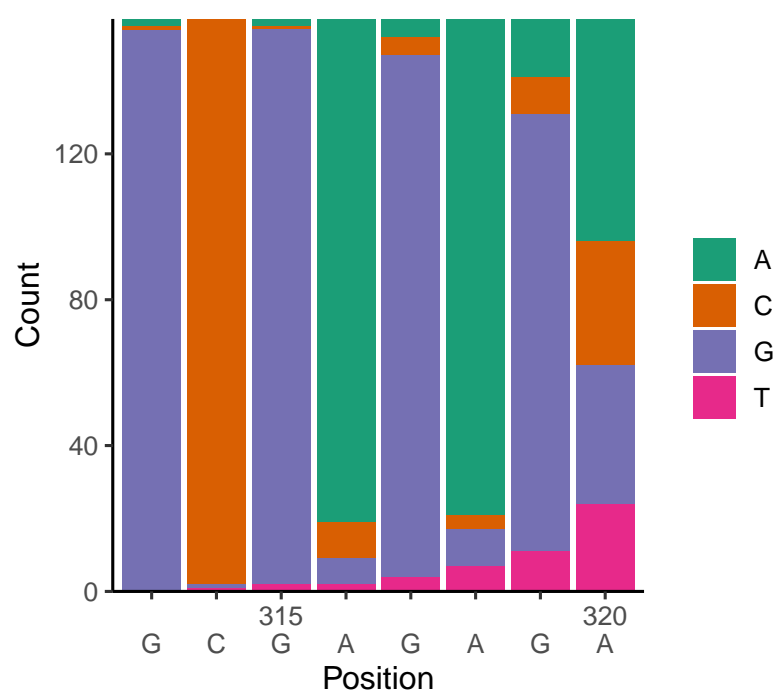
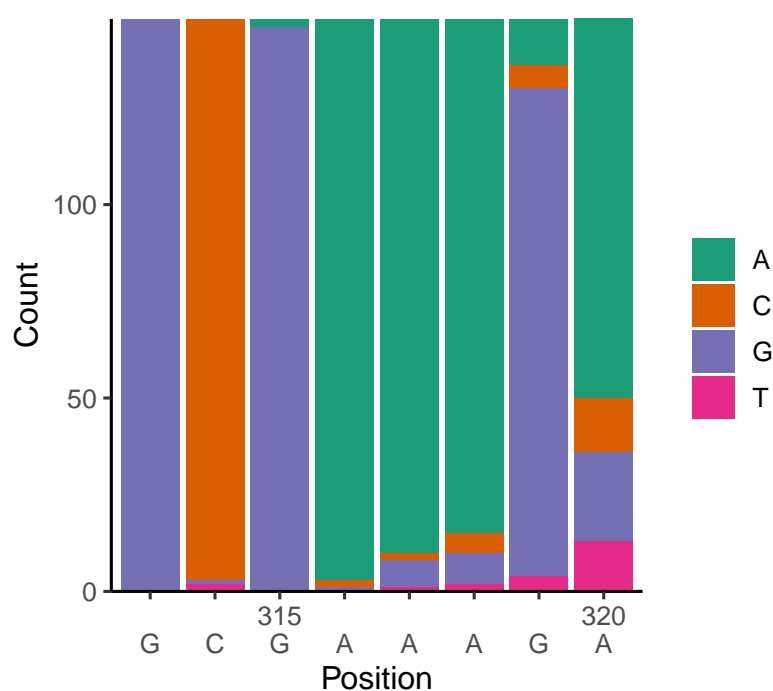


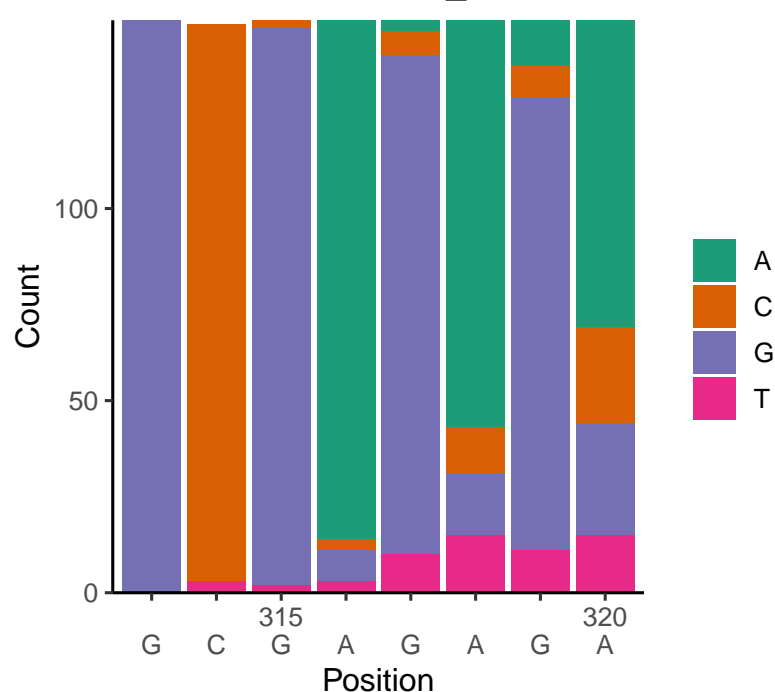
Gene IGHV1-2*02_T174C



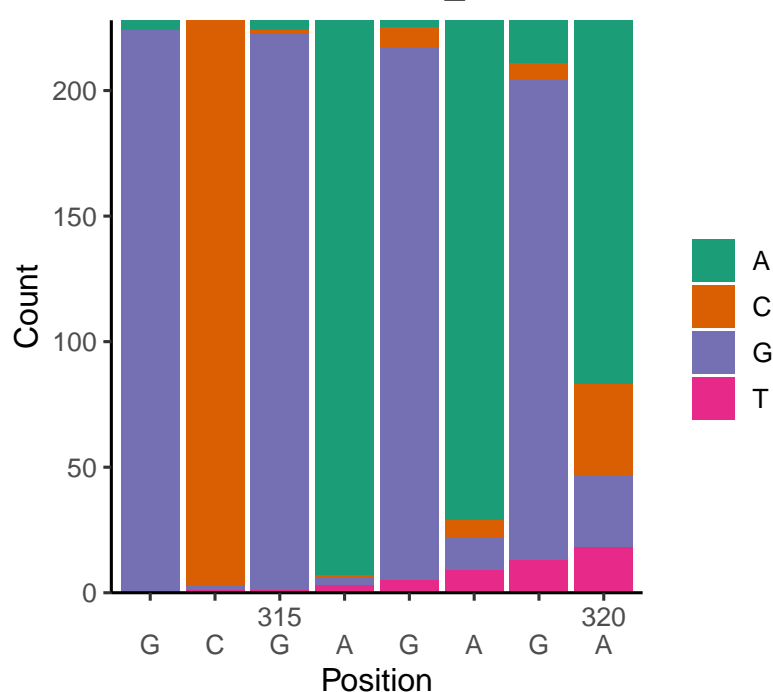
Gene IGHV3-30*18_T158G



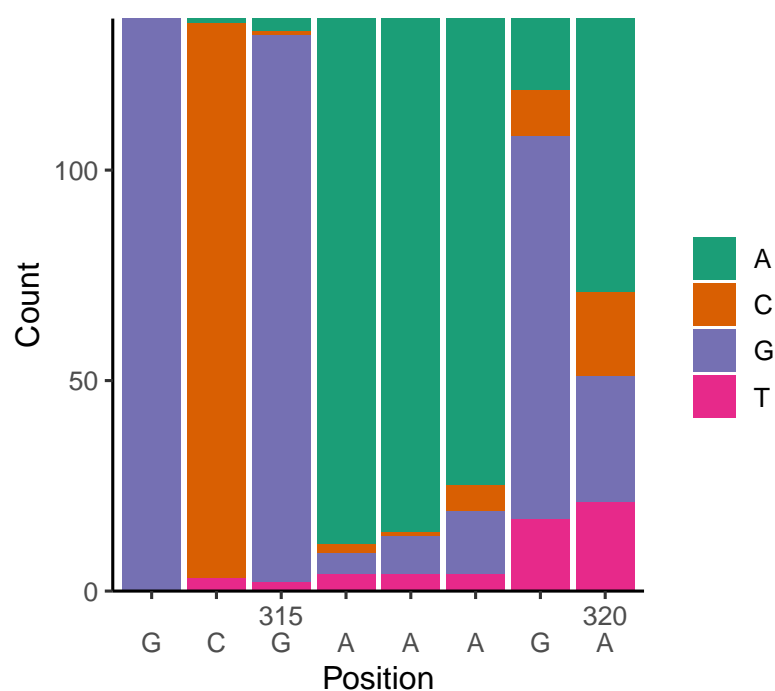
Gene IGHV1-69*08_C191T



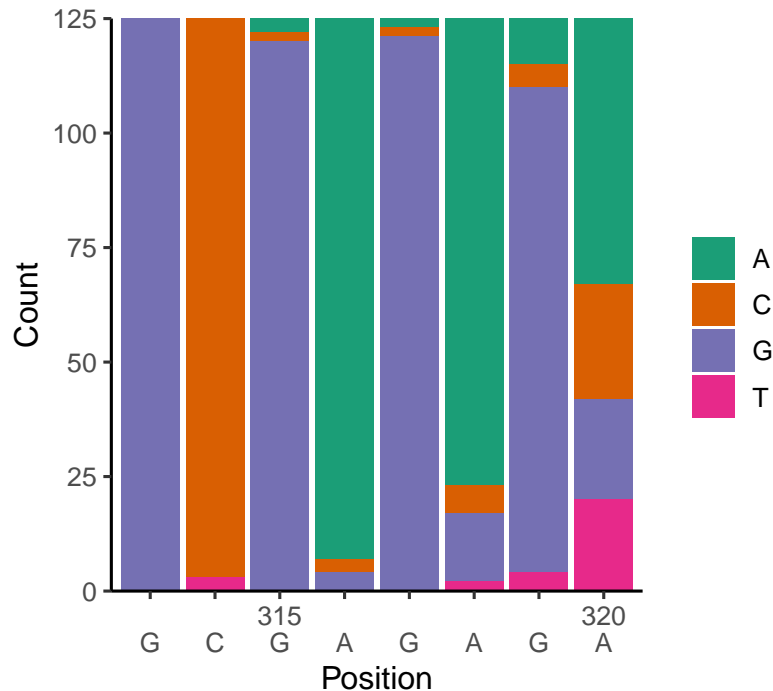
Gene IGHV3-33*01_T158G



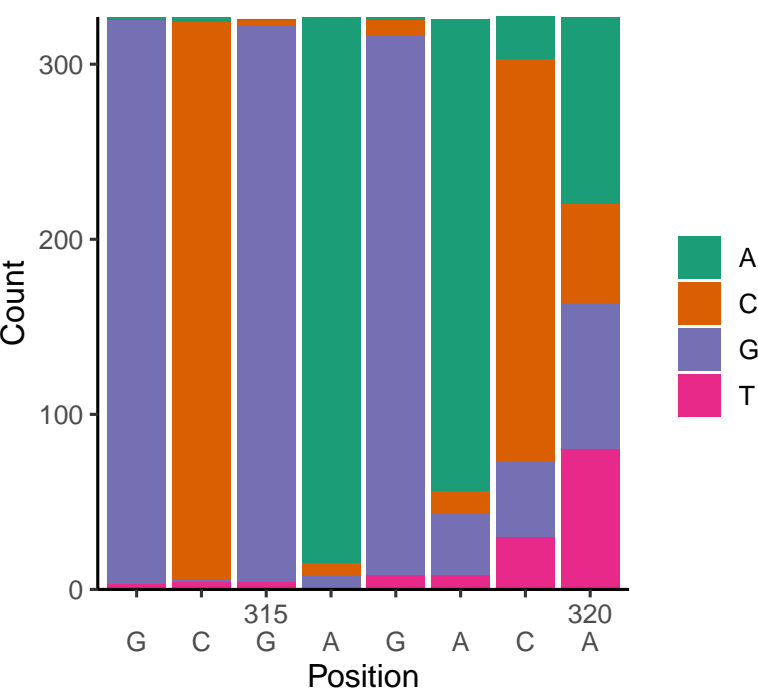
Gene IGHV3-23*01_T158G



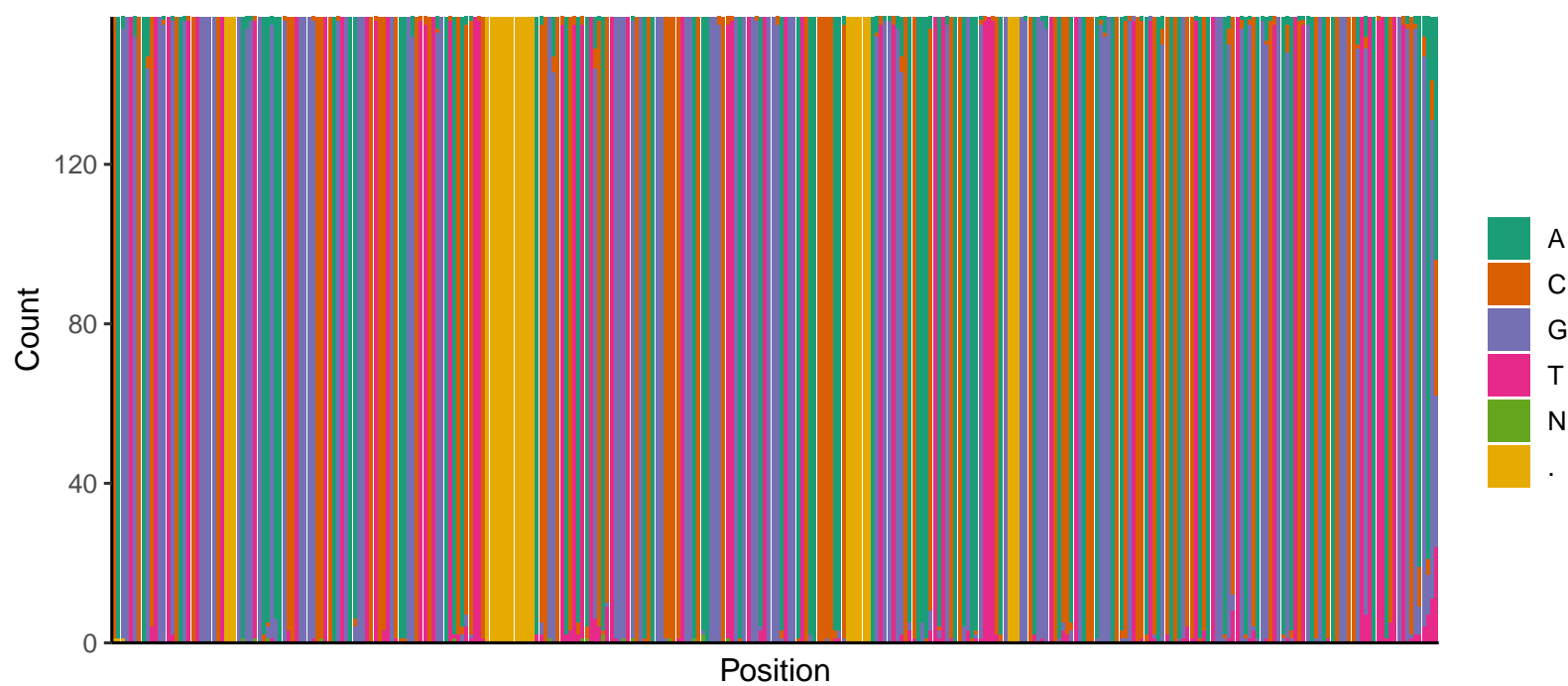
Gene IGHV4-61*02_A234G



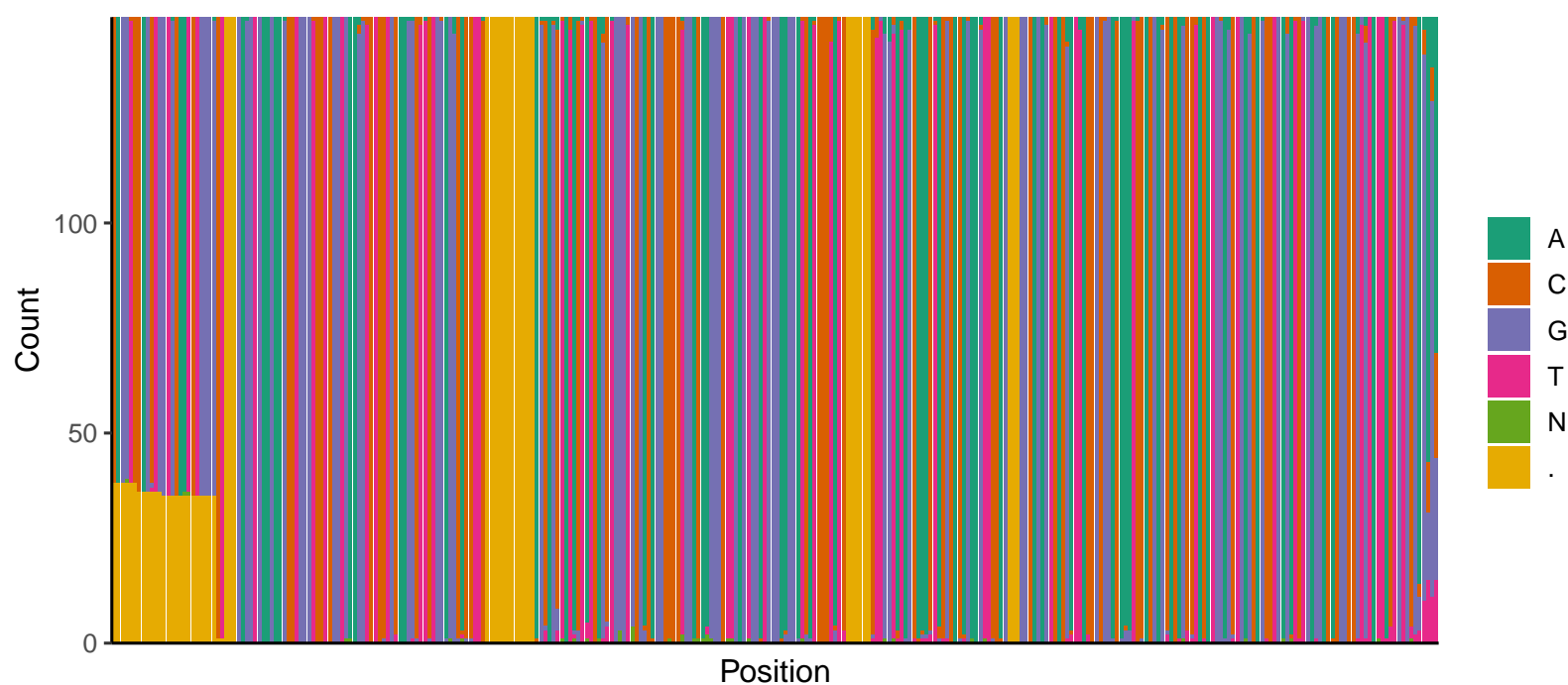
Gene IGHV5-51*01_C45G



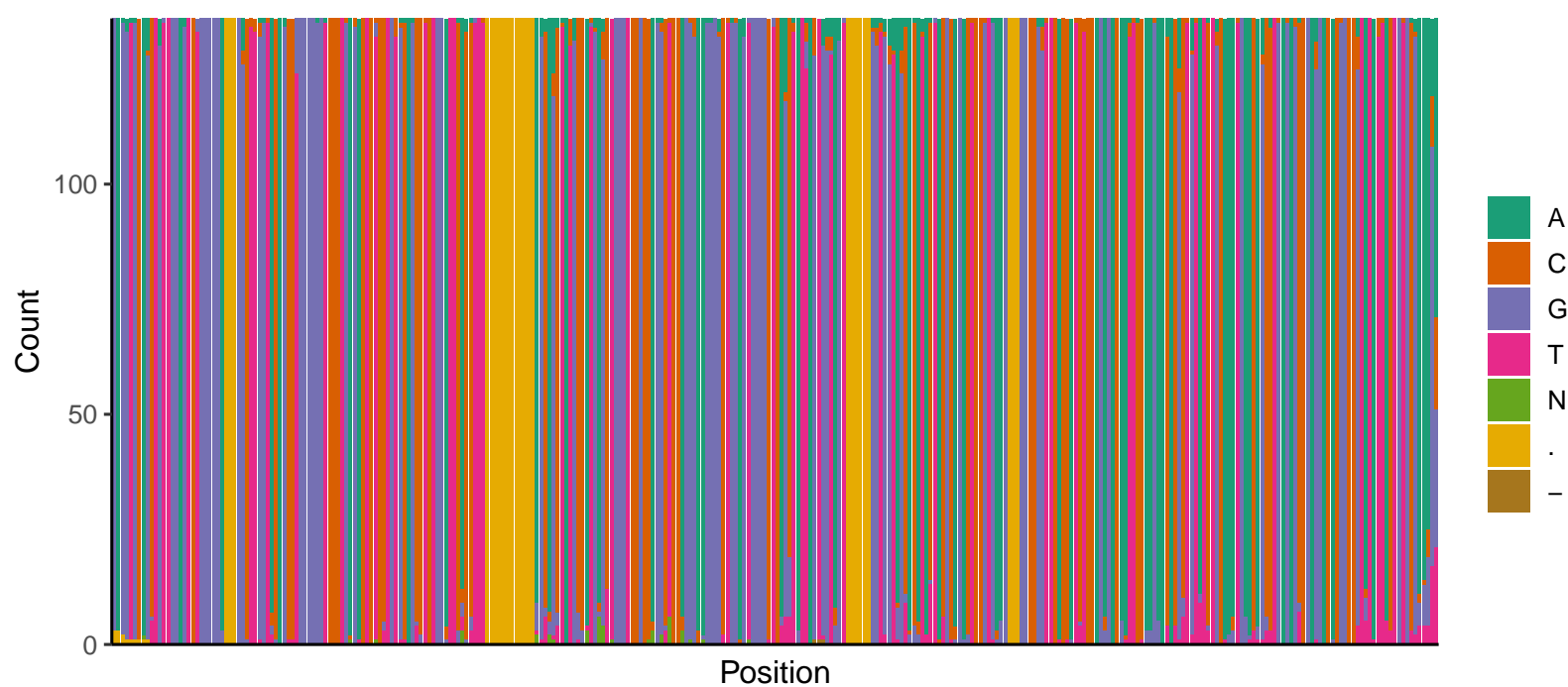
Gene IGHV1-2*02_T174C



Gene IGHV1-69*08_C191T



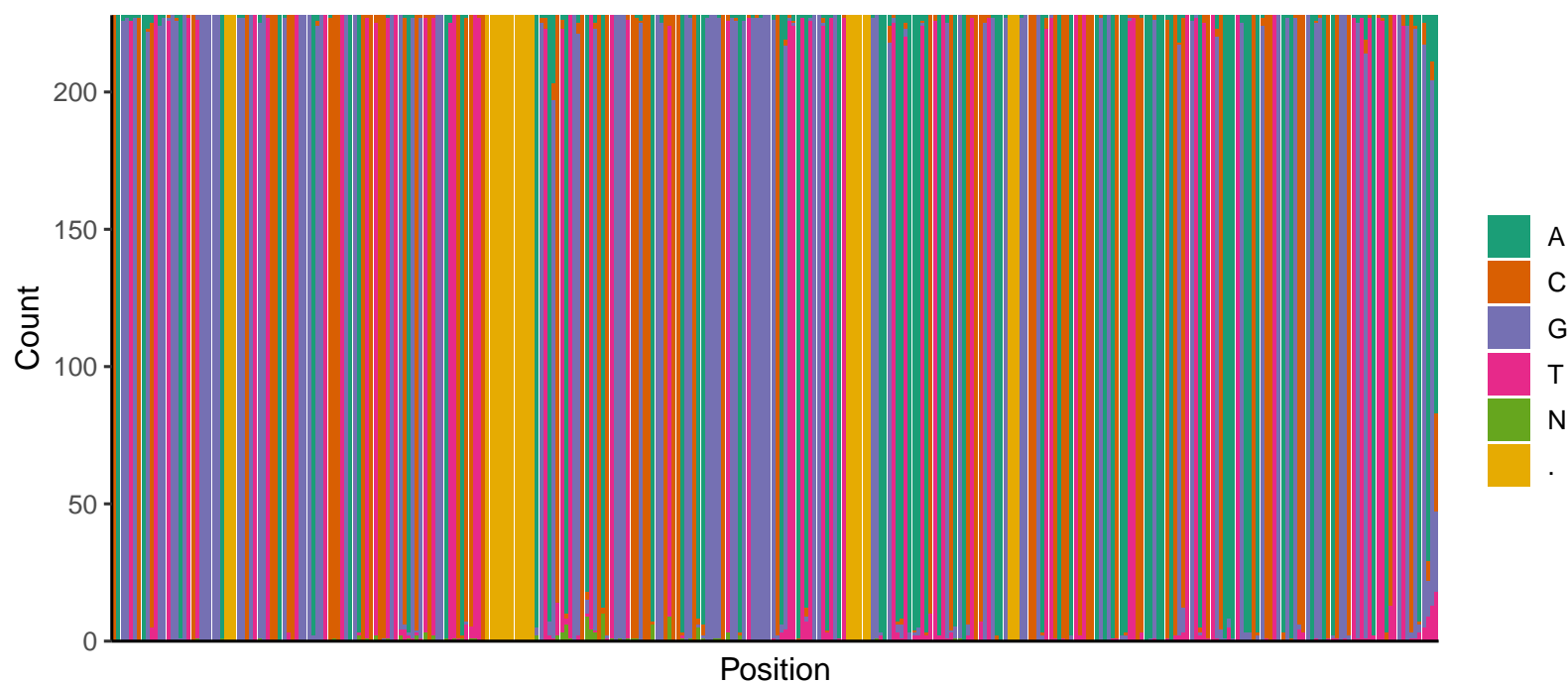
Gene IGHV3-23*01_T158G



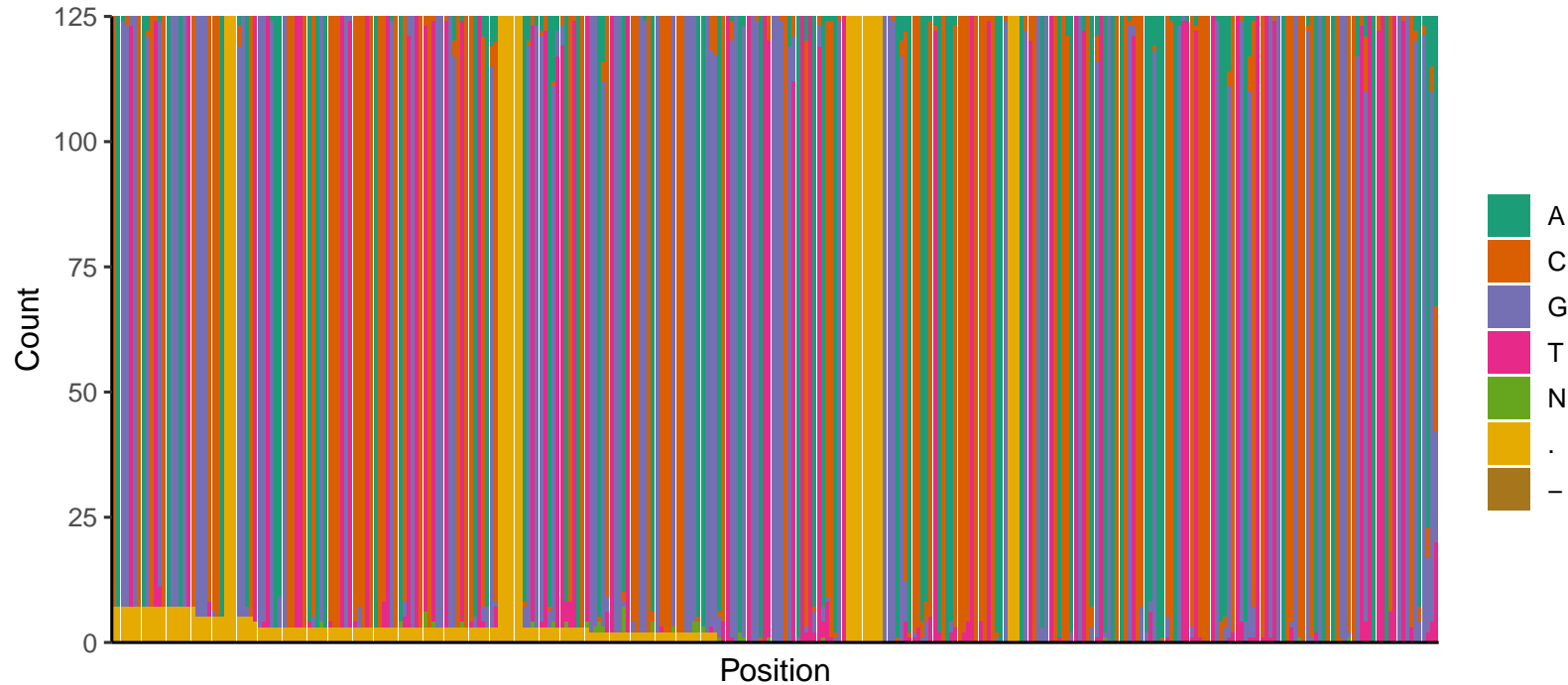
Gene IGHV3-30*18_T158G



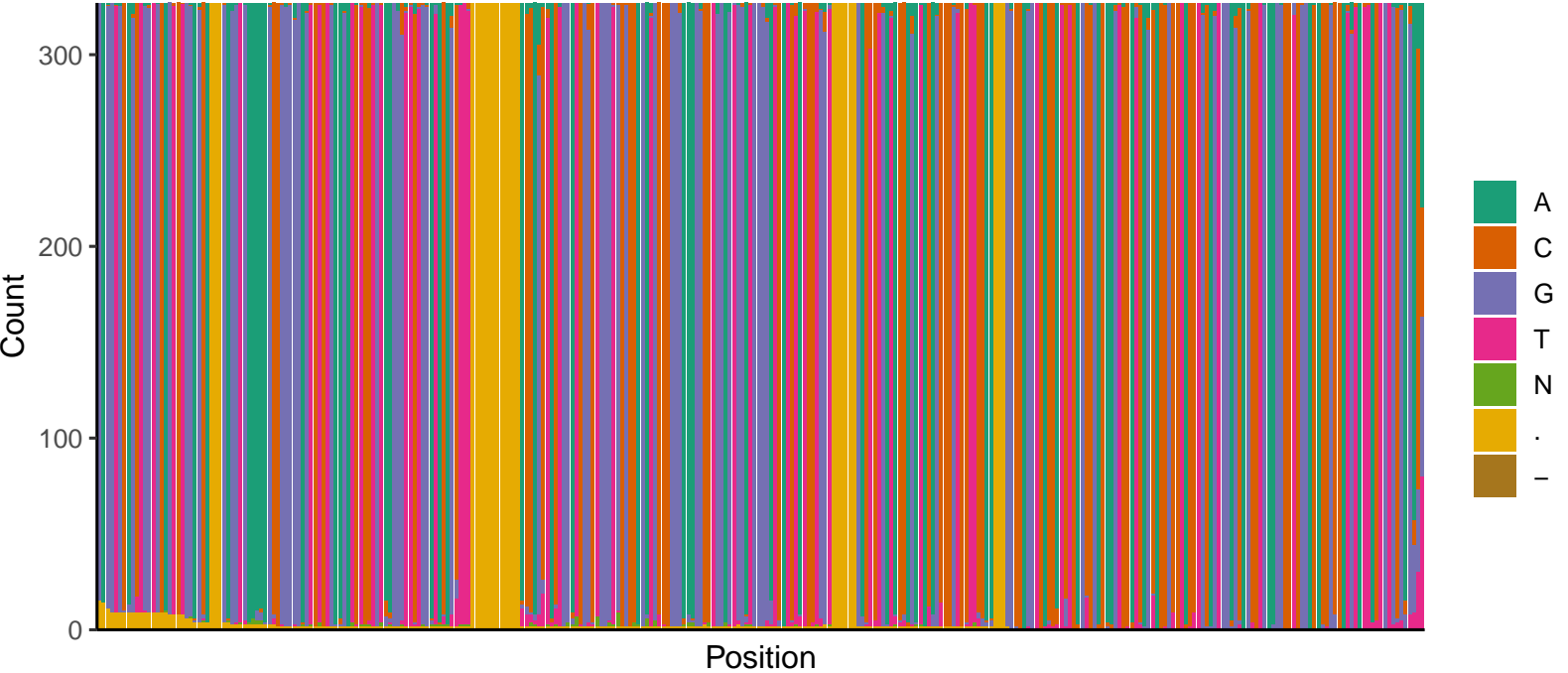
Gene IGHV3-33*01_T158G



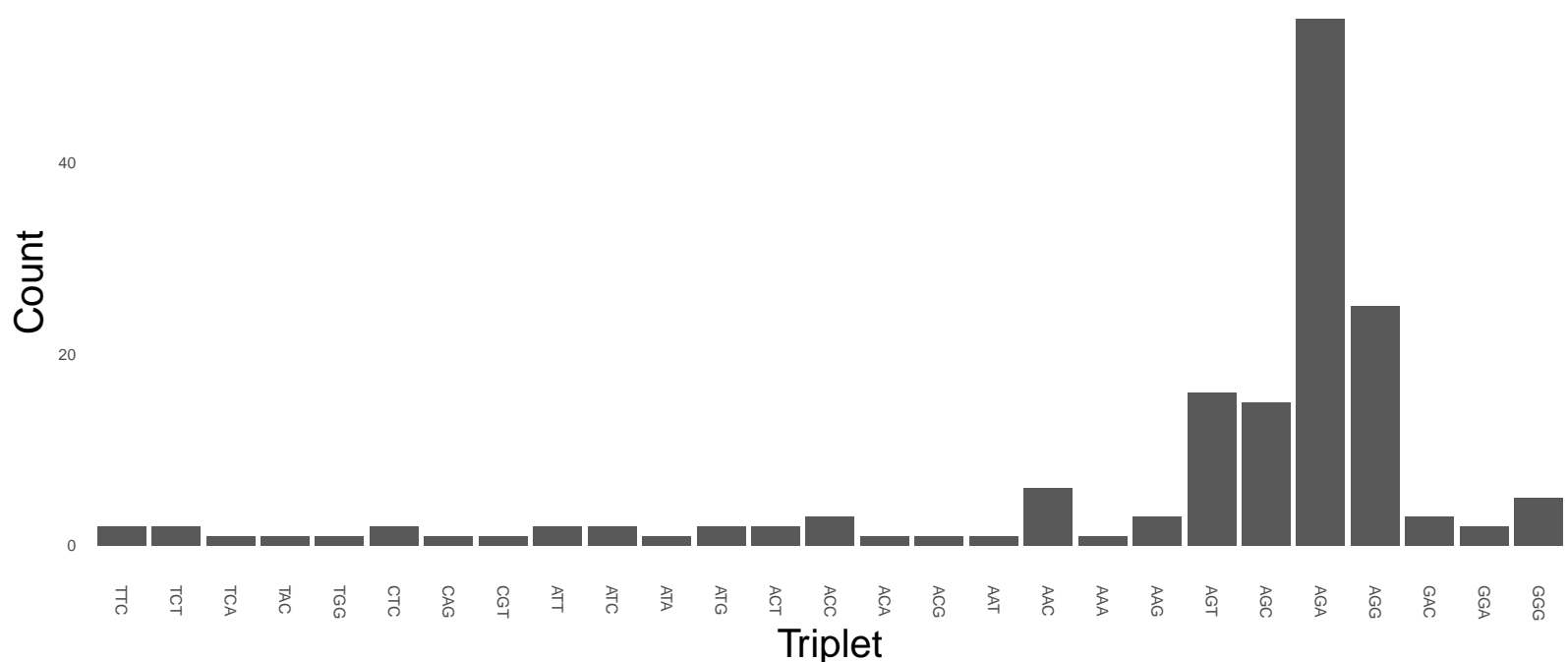
Gene IGHV4-61*02_A234G



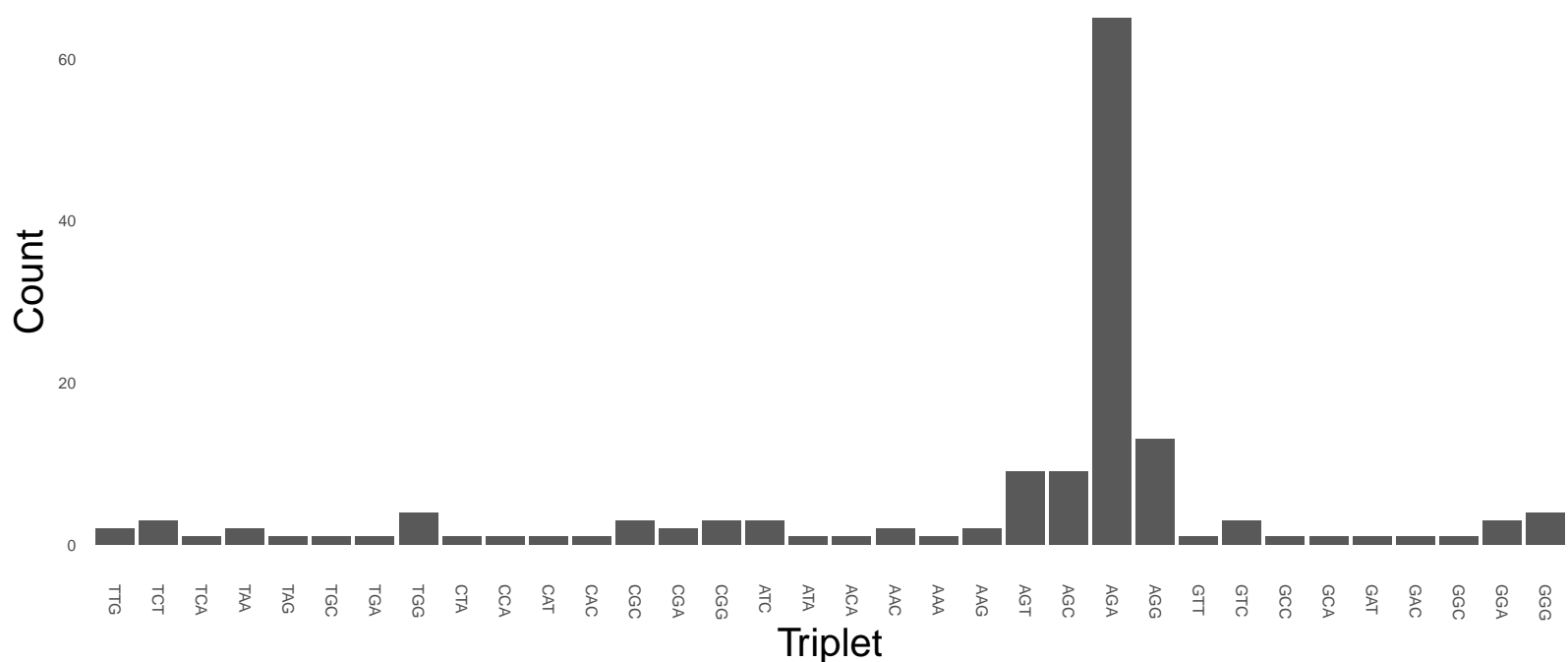
Gene IGHV5-51*01_C45G



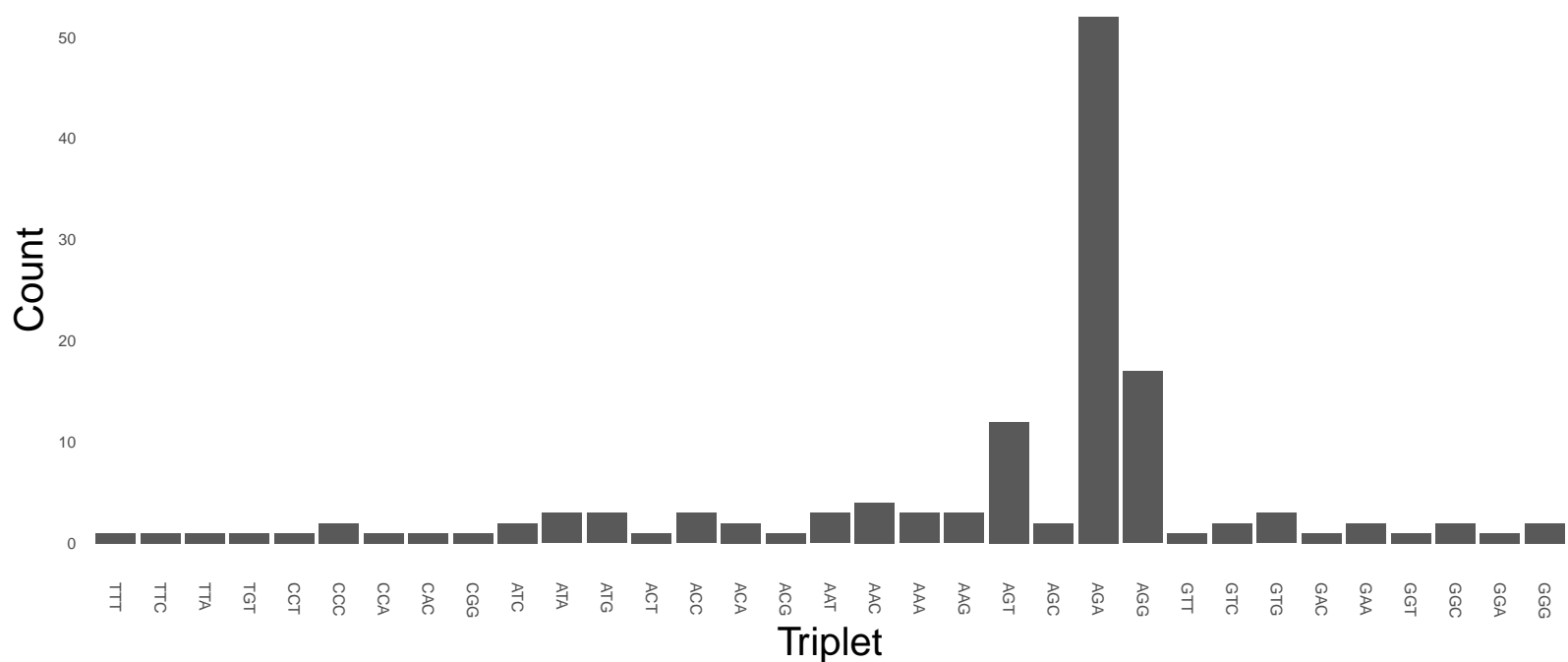
IGHV1-2*02_T174C- Final 3 nucleotides as a triplet



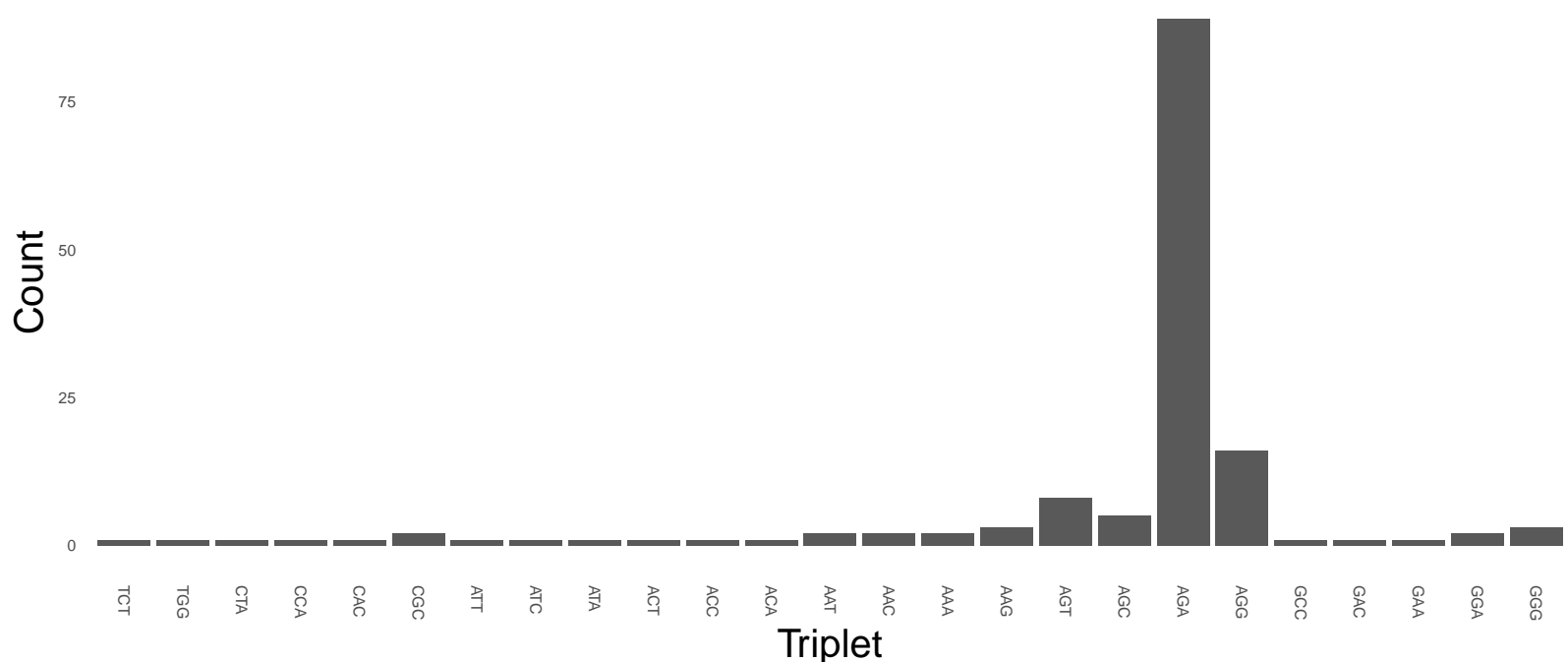
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



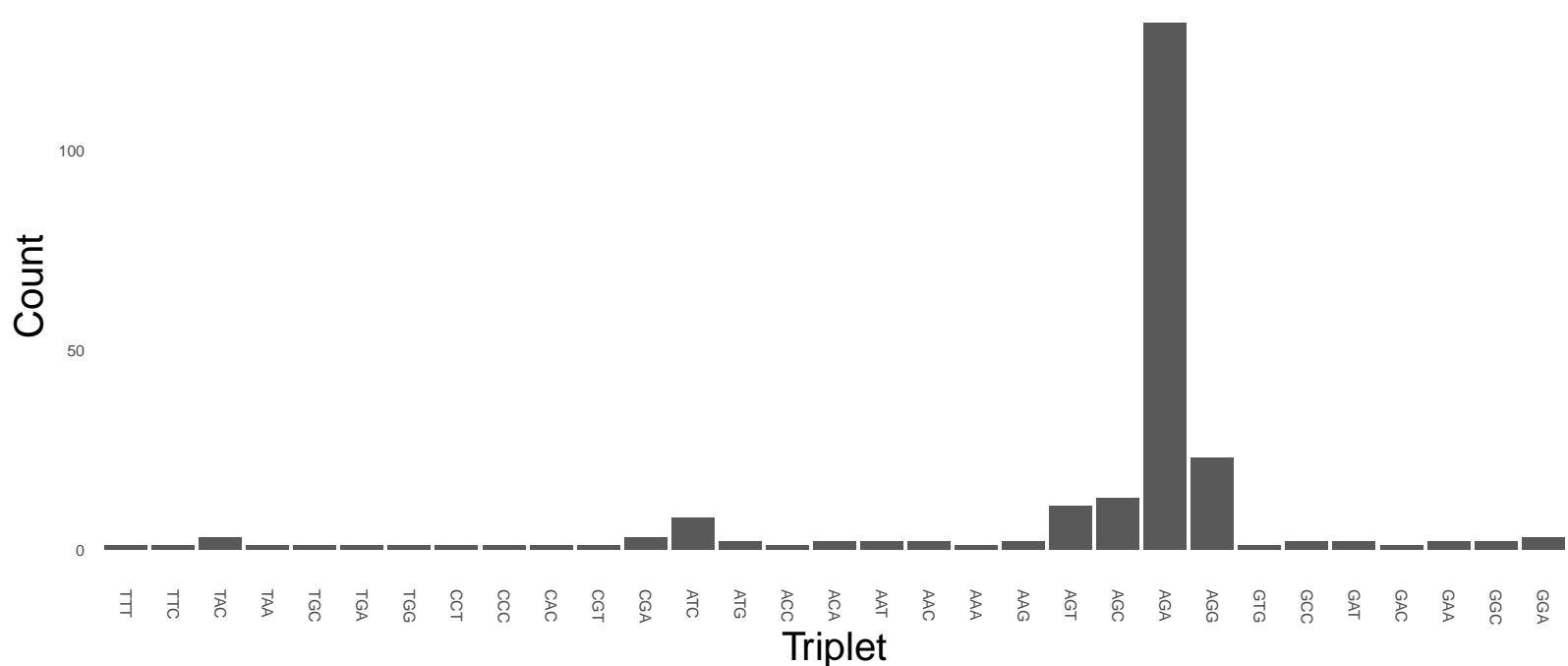
IGHV3-23*01_T158G- Final 3 nucleotides as a triplet



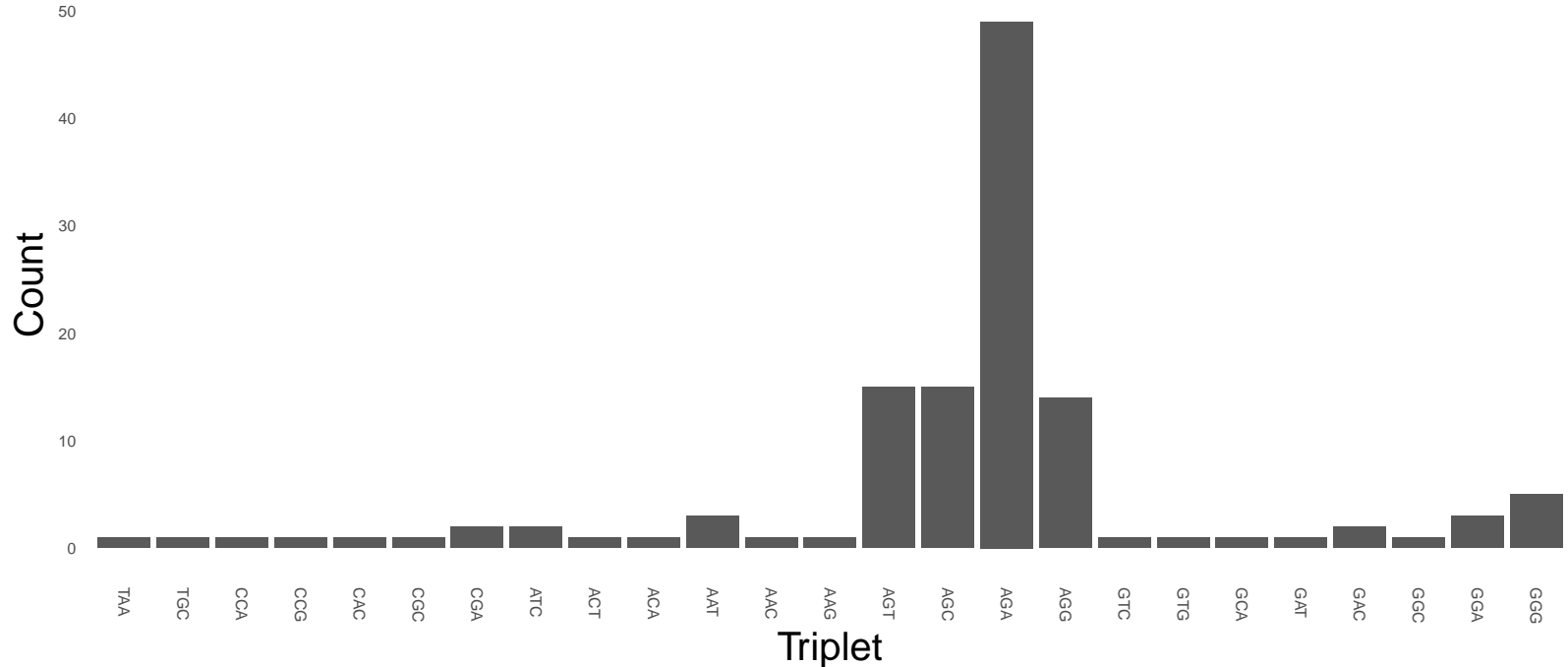
IGHV3-30*18_T158G- Final 3 nucleotides as a triplet



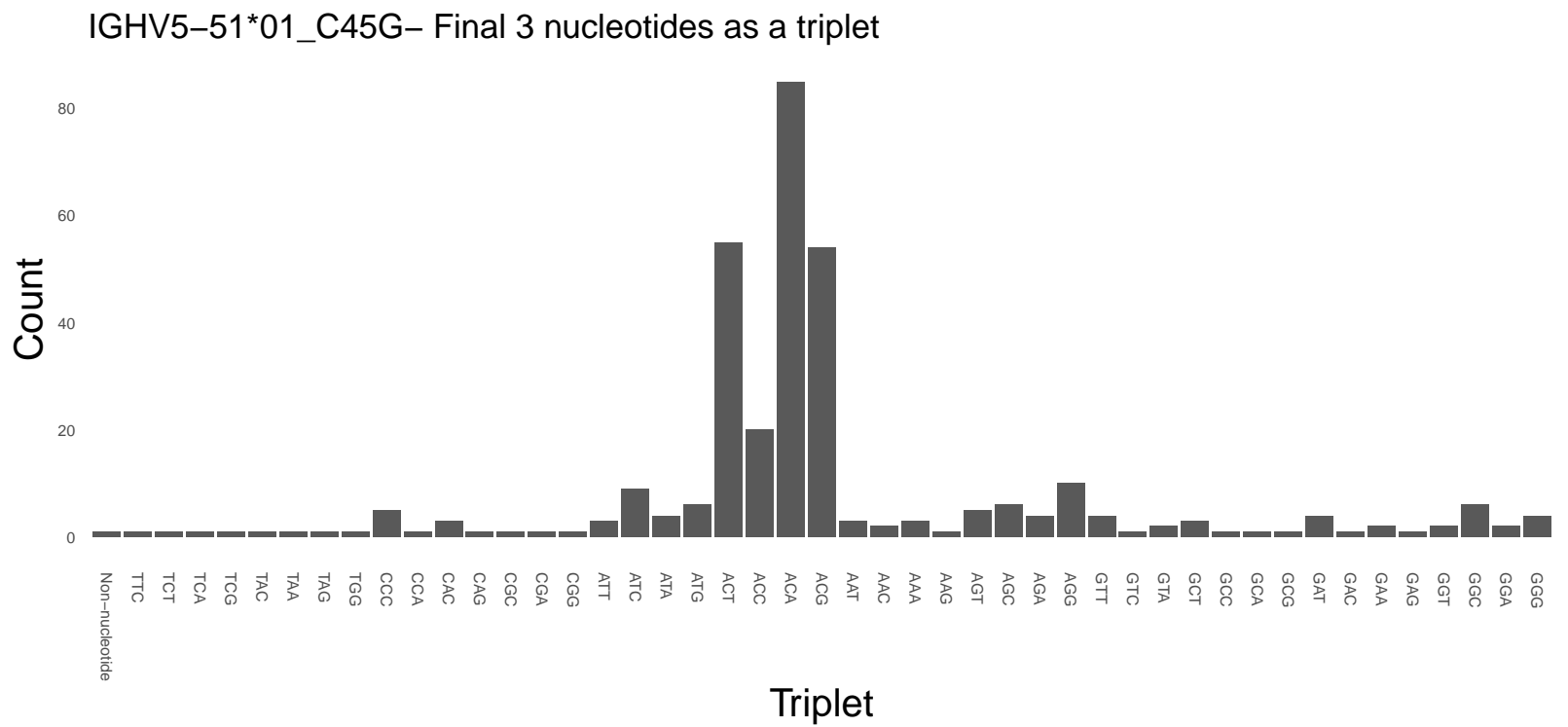
IGHV3-33*01_T158G- Final 3 nucleotides as a triplet



IGHV4-61*02_A234G- Final 3 nucleotides as a triplet

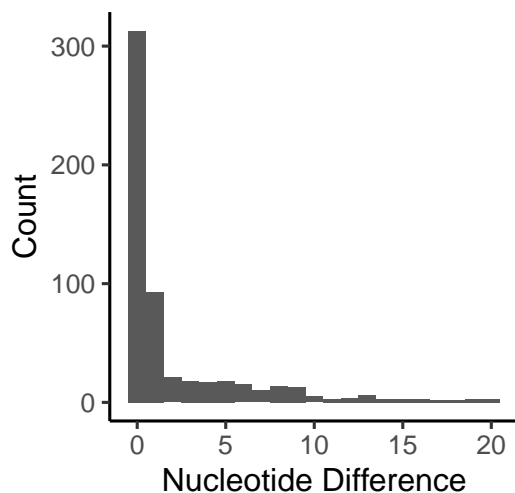


IGHV5-51*01_C45G- Final 3 nucleotides as a triplet



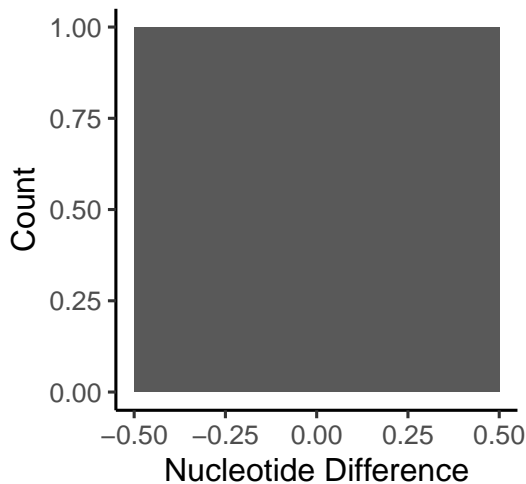
IGHV1-2*02

585 sequences assigned
313 (53.5%) exact matches, in which:
313 unique CDR3
7 unique J



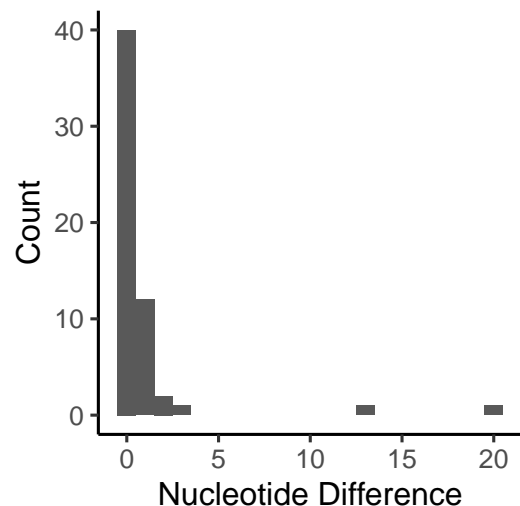
IGHV1-3*02

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



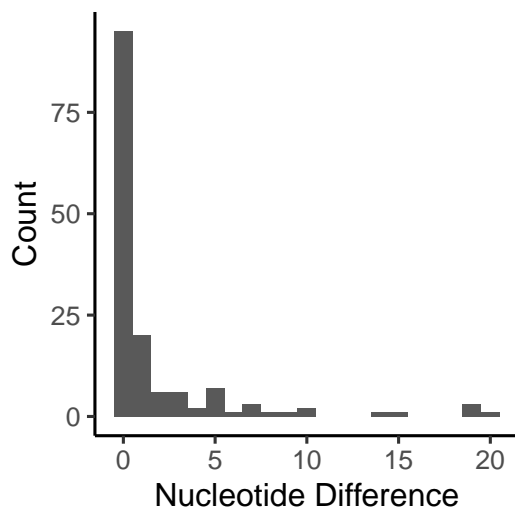
IGHV1-24*01

61 sequences assigned
40 (65.6%) exact matches, in which:
40 unique CDR3
7 unique J



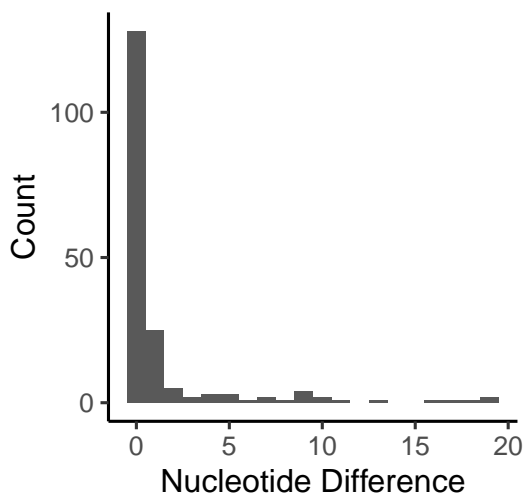
IGHV1-2*02_T174C

157 sequences assigned
95 (60.5%) exact matches, in which:
95 unique CDR3
7 unique J



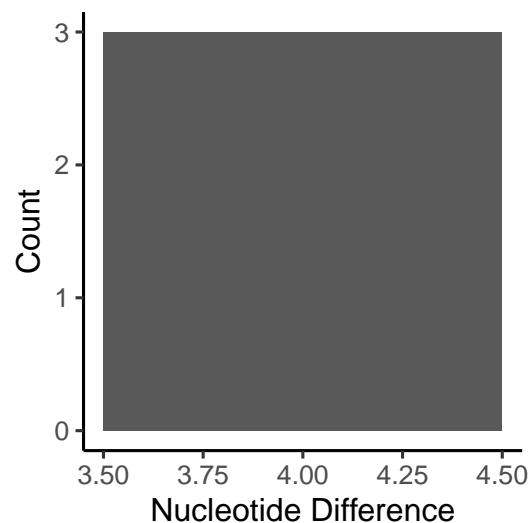
IGHV1-8*01

187 sequences assigned
128 (68.4%) exact matches, in which:
126 unique CDR3
7 unique J



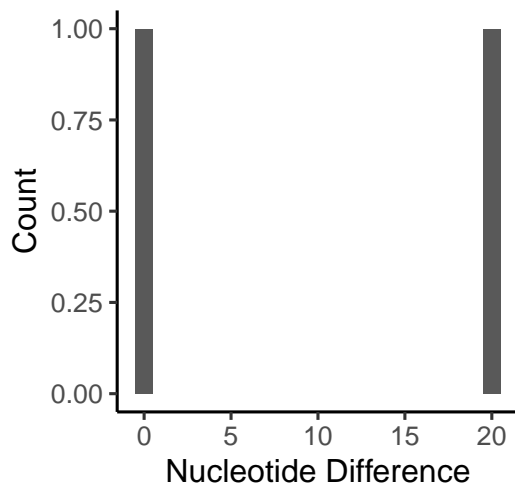
IGHV1-45*02

3 sequences assigned
No exact matches.



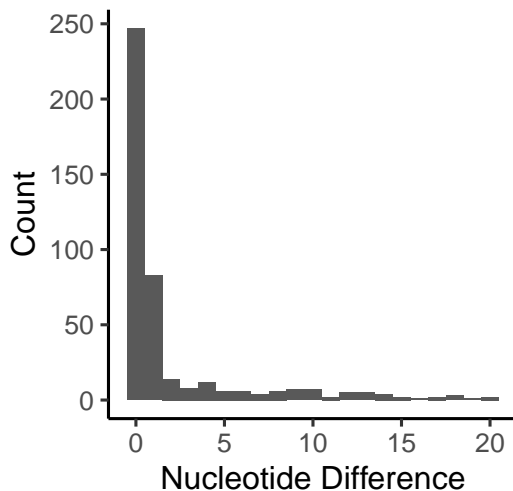
IGHV1-3*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



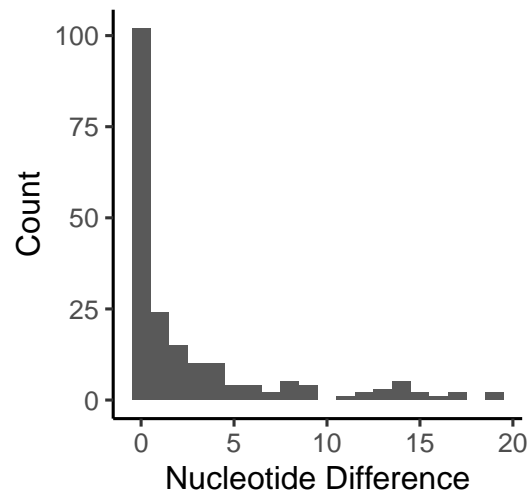
IGHV1-18*01

437 sequences assigned
247 (56.5%) exact matches, in which:
245 unique CDR3
7 unique J



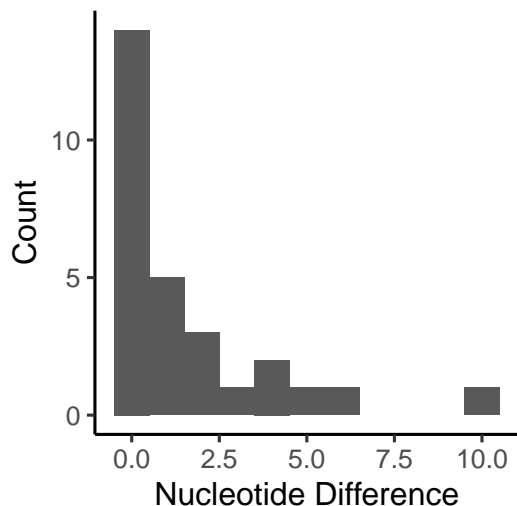
IGHV1-46*03

204 sequences assigned
102 (50%) exact matches, in which:
101 unique CDR3
7 unique J



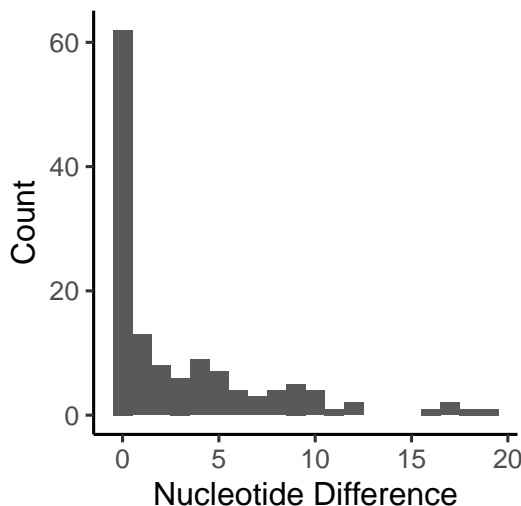
IGHV1-58*02

32 sequences assigned
14 (43.8%) exact matches, in which:
13 unique CDR3
5 unique J



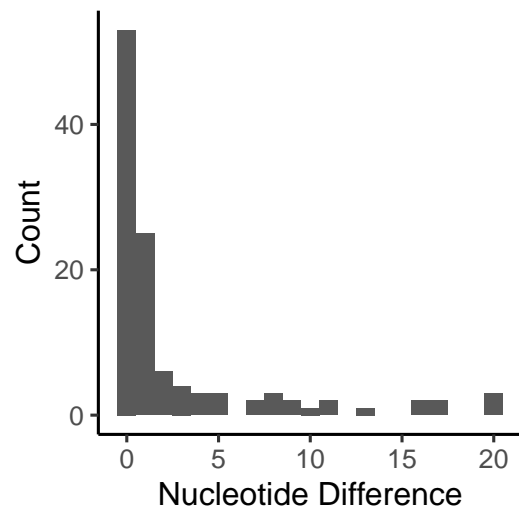
IGHV2-5*02

136 sequences assigned
62 (45.6%) exact matches, in which:
62 unique CDR3
5 unique J



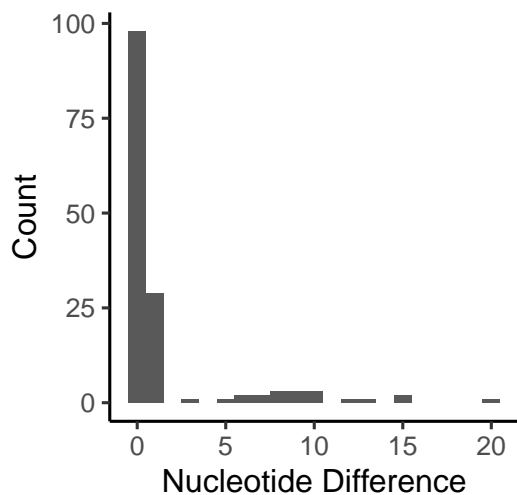
IGHV3-7*01

156 sequences assigned
53 (34%) exact matches, in which:
53 unique CDR3
4 unique J



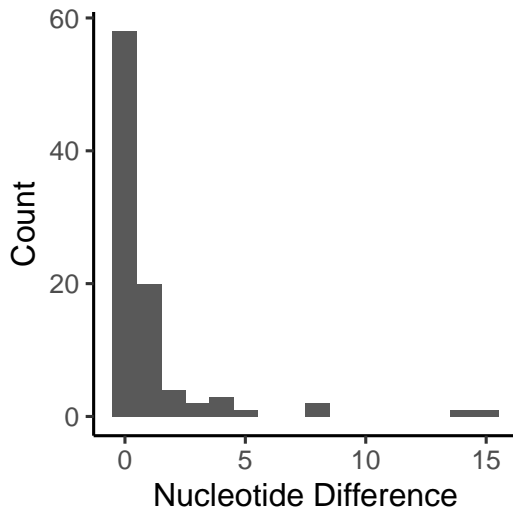
IGHV1-69*08_C191T

149 sequences assigned
98 (65.8%) exact matches, in which:
93 unique CDR3
5 unique J



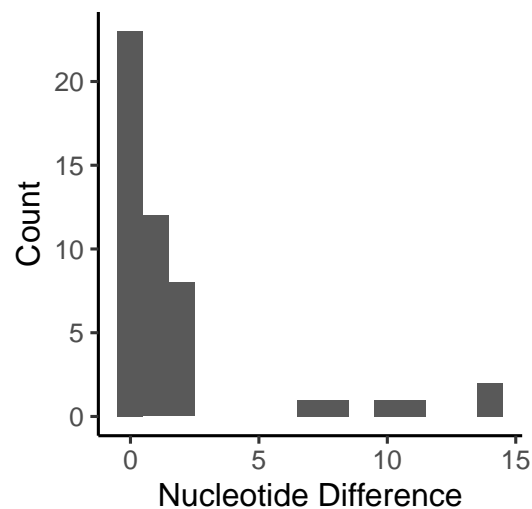
IGHV2-26*01

93 sequences assigned
58 (62.4%) exact matches, in which:
58 unique CDR3
6 unique J



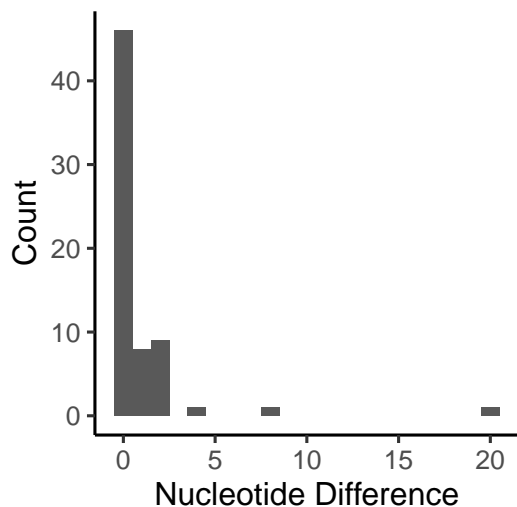
IGHV3-7*04

49 sequences assigned
23 (46.9%) exact matches, in which:
23 unique CDR3
6 unique J



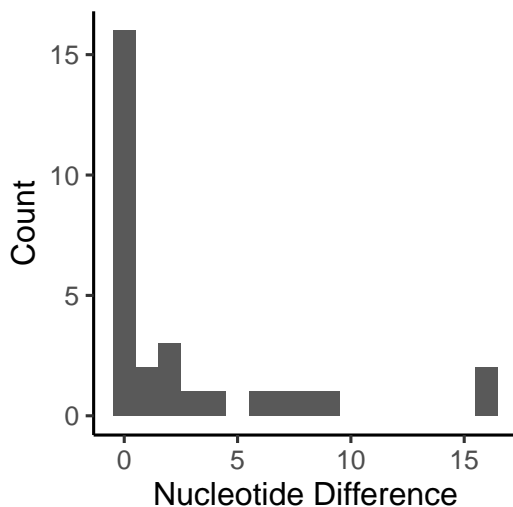
IGHV2-5*01

66 sequences assigned
46 (69.7%) exact matches, in which:
46 unique CDR3
5 unique J



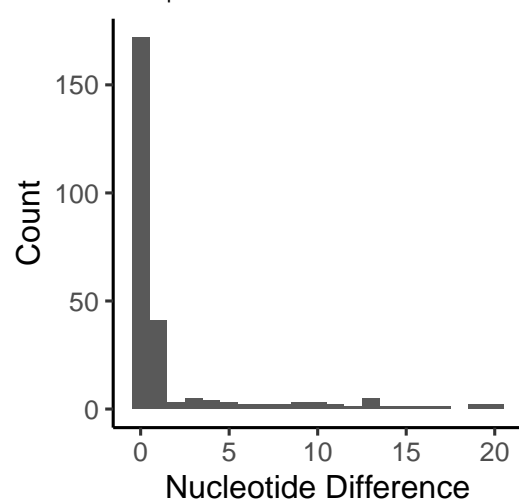
IGHV2-70*01

29 sequences assigned
16 (55.2%) exact matches, in which:
16 unique CDR3
4 unique J



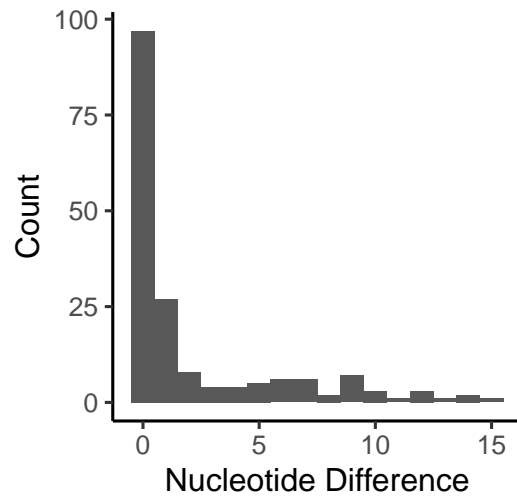
IGHV3-9*01

270 sequences assigned
172 (63.7%) exact matches, in which:
170 unique CDR3
7 unique J



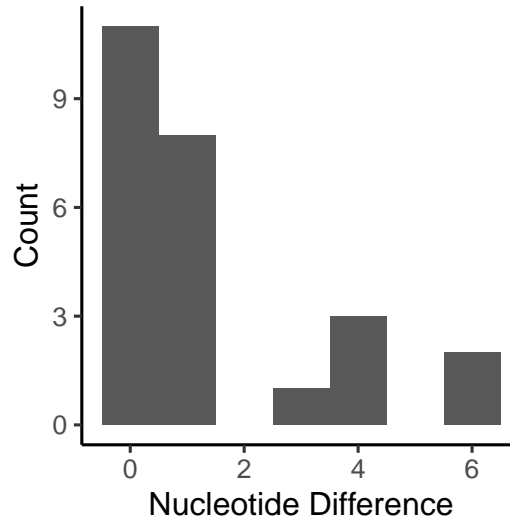
IGHV3-11*01

194 sequences assigned
97 (50%) exact matches, in which:
96 unique CDR3
6 unique J



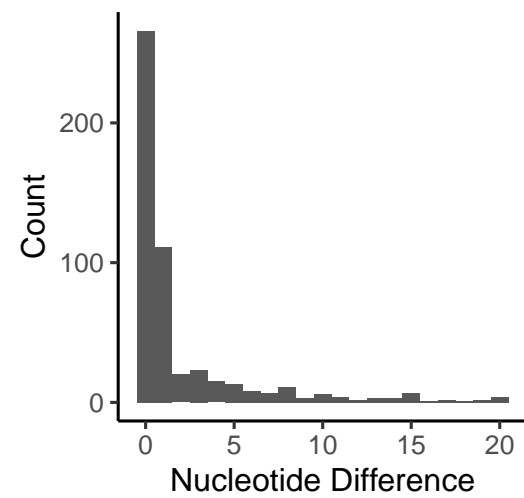
IGHV3-13*05

25 sequences assigned
11 (44%) exact matches, in which:
11 unique CDR3
4 unique J



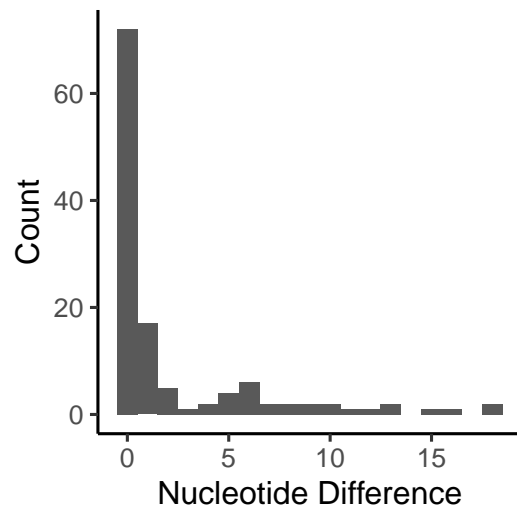
IGHV3-21*01

524 sequences assigned
266 (50.8%) exact matches, in which:
266 unique CDR3
7 unique J



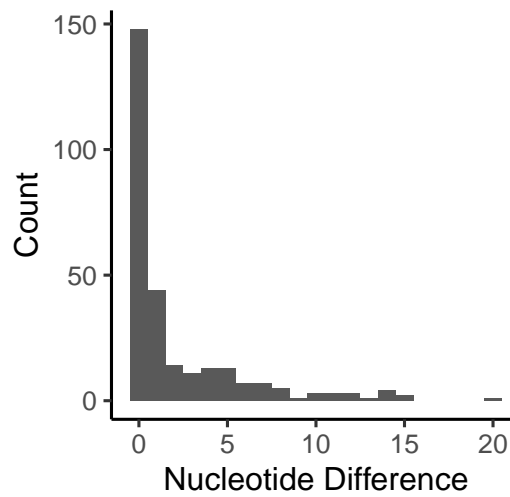
IGHV3-11*06

123 sequences assigned
72 (58.5%) exact matches, in which:
72 unique CDR3
5 unique J



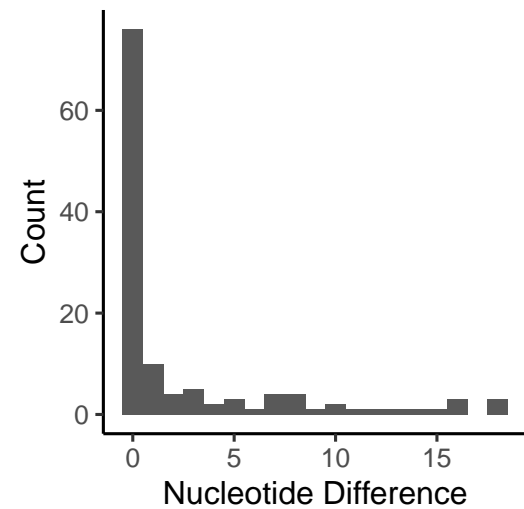
IGHV3-15*01

292 sequences assigned
148 (50.7%) exact matches, in which:
148 unique CDR3
6 unique J



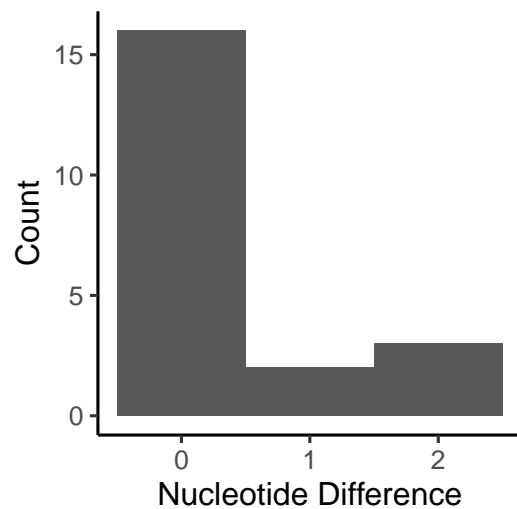
IGHV3-23*01_T158G

136 sequences assigned
76 (55.9%) exact matches, in which:
76 unique CDR3
6 unique J



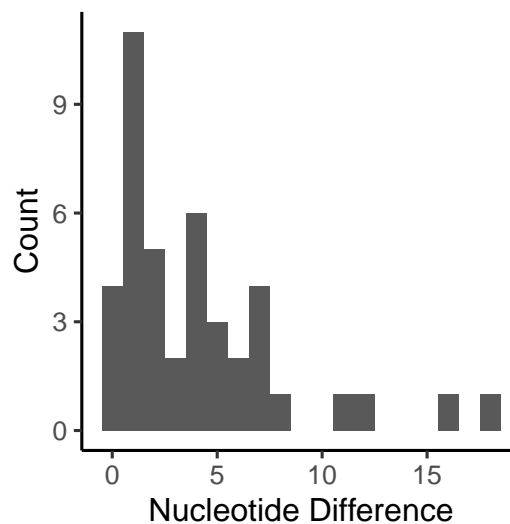
IGHV3-13*01

21 sequences assigned
16 (76.2%) exact matches, in which:
16 unique CDR3
4 unique J



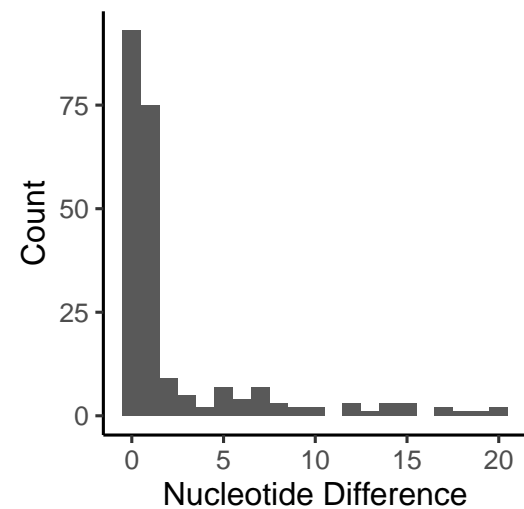
IGHV3-20*01

42 sequences assigned
4 (9.5%) exact matches, in which:
4 unique CDR3
4 unique J



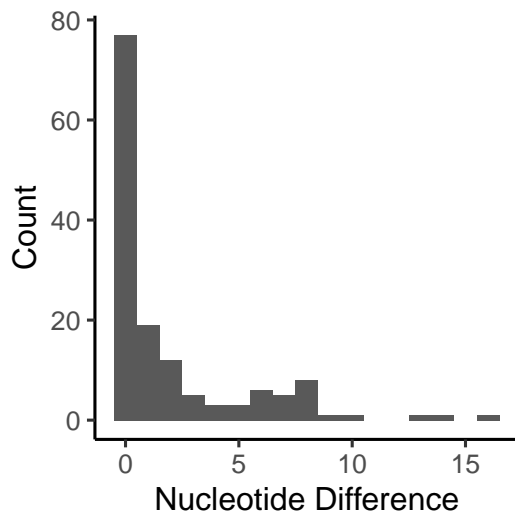
IGHV3-30-3*01

237 sequences assigned
93 (39.2%) exact matches, in which:
93 unique CDR3
5 unique J



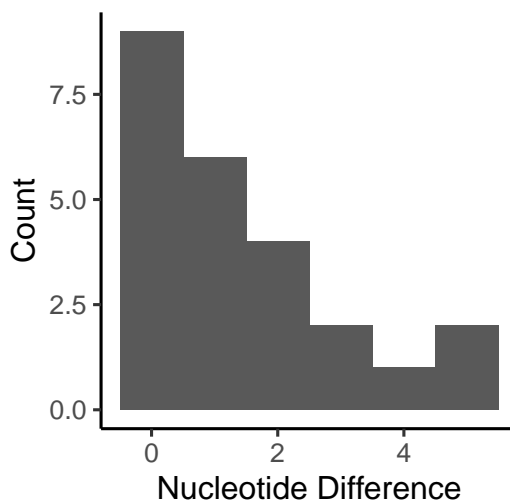
IGHV3-30*18_T158G

148 sequences assigned
77 (52%) exact matches, in which:
77 unique CDR3
7 unique J



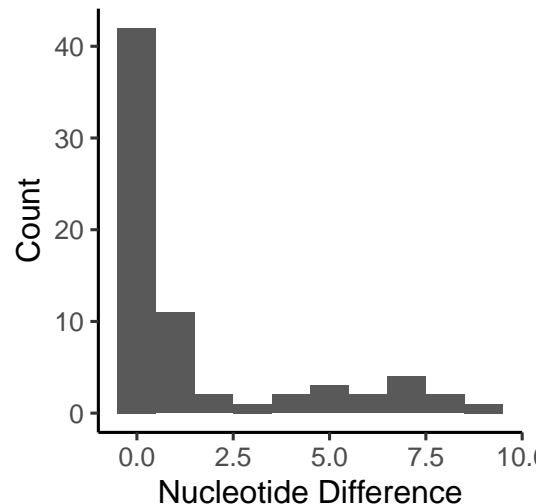
IGHV3-43*01

25 sequences assigned
9 (36%) exact matches, in which:
9 unique CDR3
3 unique J



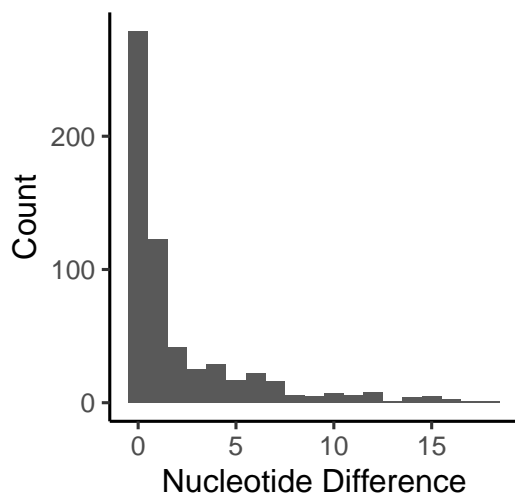
IGHV3-53*02

73 sequences assigned
42 (57.5%) exact matches, in which:
42 unique CDR3
6 unique J



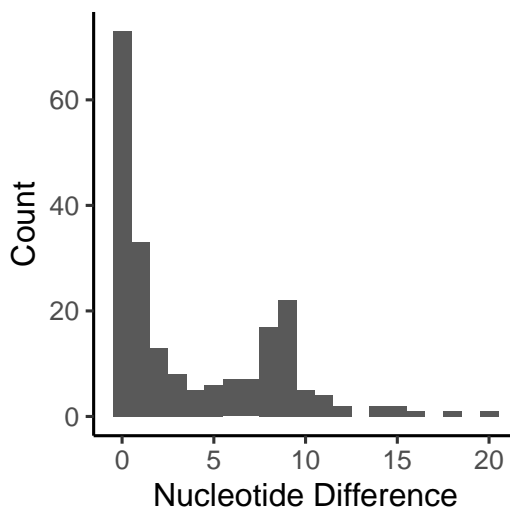
IGHV3-33*01

612 sequences assigned
279 (45.6%) exact matches, in which:
278 unique CDR3
6 unique J



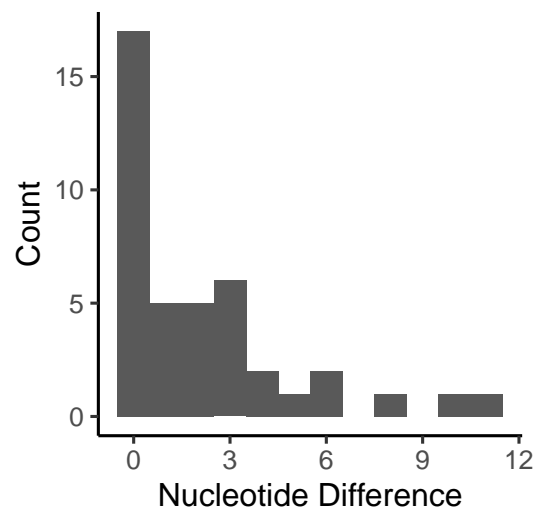
IGHV3-48*01

214 sequences assigned
73 (34.1%) exact matches, in which:
72 unique CDR3
7 unique J



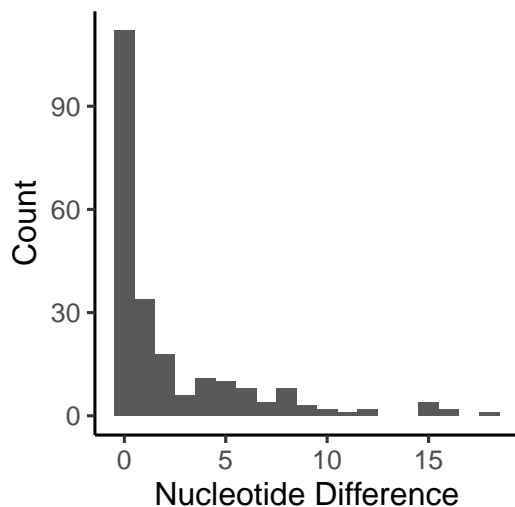
IGHV3-64*01

41 sequences assigned
17 (41.5%) exact matches, in which:
17 unique CDR3
3 unique J



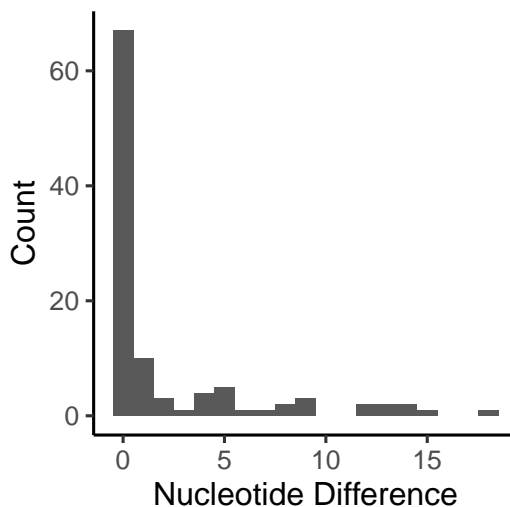
IGHV3-33*01_T158G

228 sequences assigned
112 (49.1%) exact matches, in which:
112 unique CDR3
7 unique J



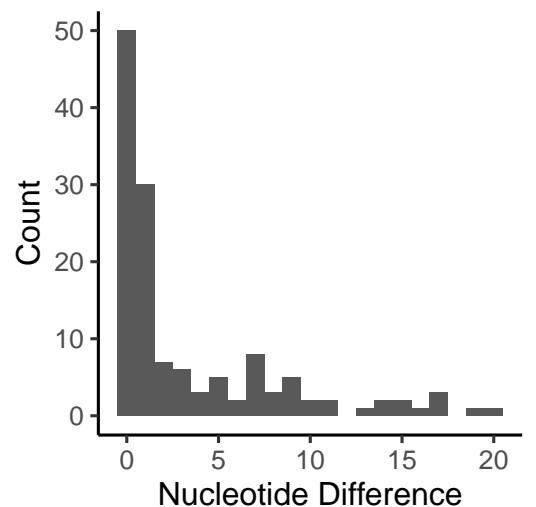
IGHV3-49*03

106 sequences assigned
67 (63.2%) exact matches, in which:
67 unique CDR3
6 unique J



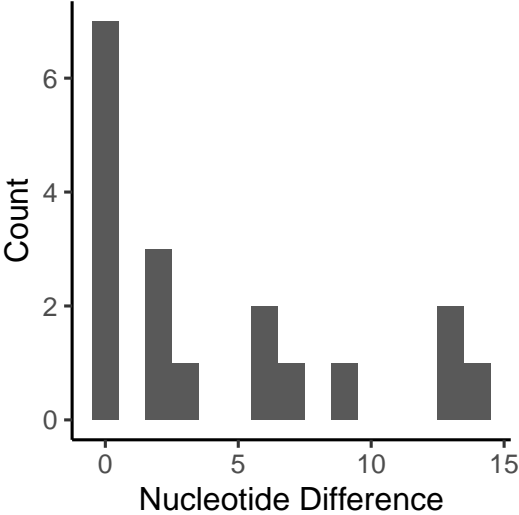
IGHV3-66*02

135 sequences assigned
50 (37%) exact matches, in which:
50 unique CDR3
5 unique J



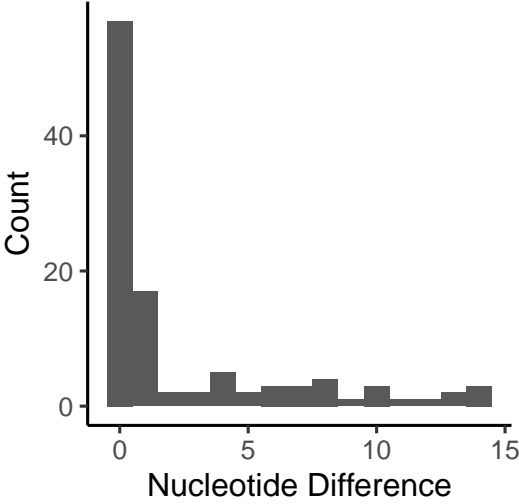
IGHV3-72*01

20 sequences assigned
7 (35%) exact matches, in which:
7 unique CDR3
2 unique J



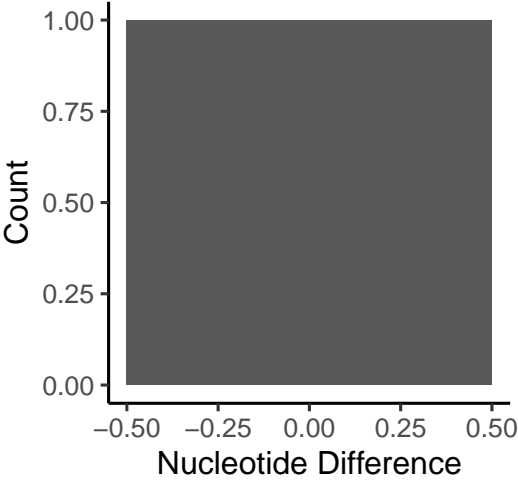
IGHV3-74*01

112 sequences assigned
57 (50.9%) exact matches, in which:
57 unique CDR3
6 unique J



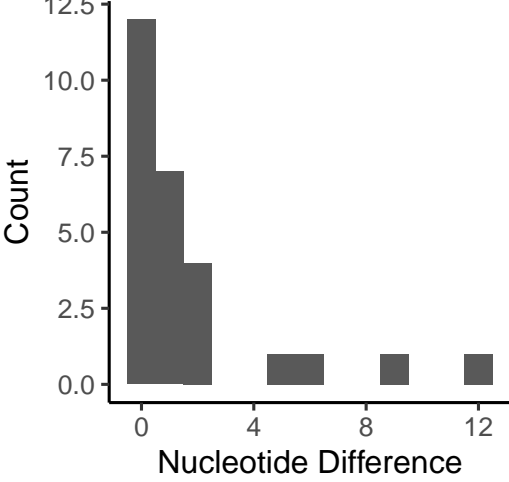
IGHV4-28*01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



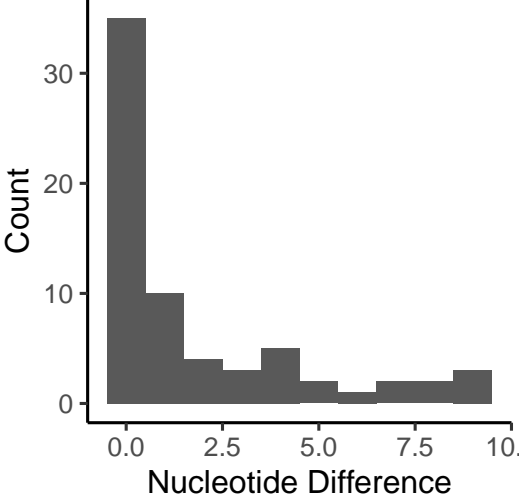
IGHV3-73*01

28 sequences assigned
12 (42.9%) exact matches, in which:
12 unique CDR3
4 unique J



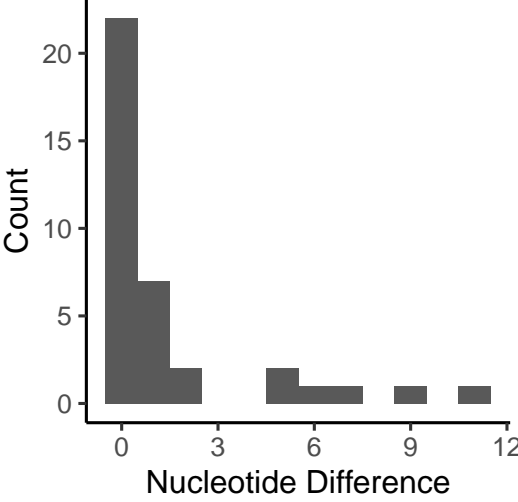
IGHV3-64D*06

67 sequences assigned
35 (52.2%) exact matches, in which:
34 unique CDR3
4 unique J



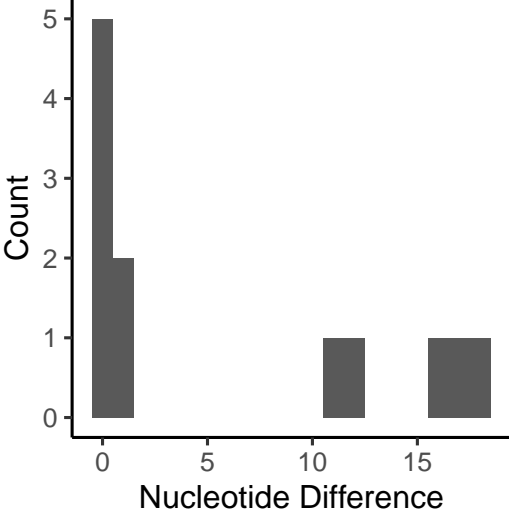
IGHV4-30-4*01

38 sequences assigned
22 (57.9%) exact matches, in which:
21 unique CDR3
6 unique J



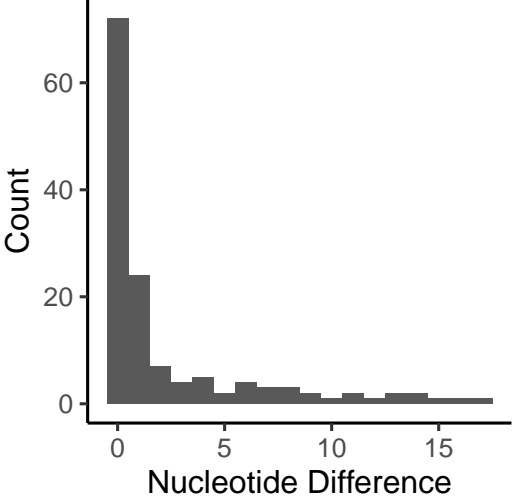
IGHV3-73*02

15 sequences assigned
5 (33.3%) exact matches, in which:
5 unique CDR3
2 unique J



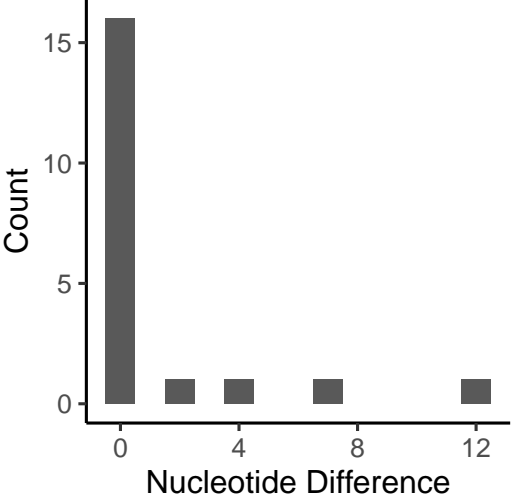
IGHV4-4*07

143 sequences assigned
72 (50.3%) exact matches, in which:
72 unique CDR3
5 unique J



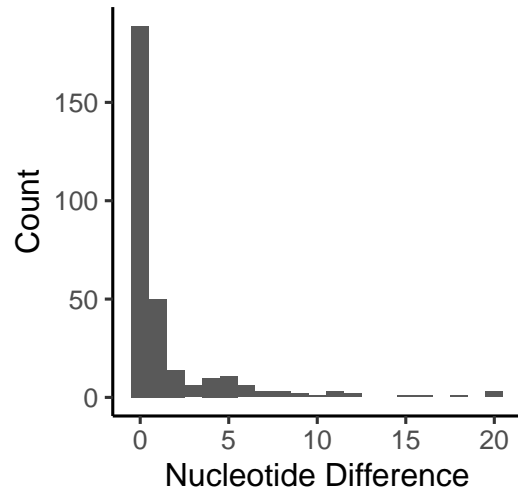
IGHV4-30-2*01

20 sequences assigned
16 (80%) exact matches, in which:
16 unique CDR3
5 unique J



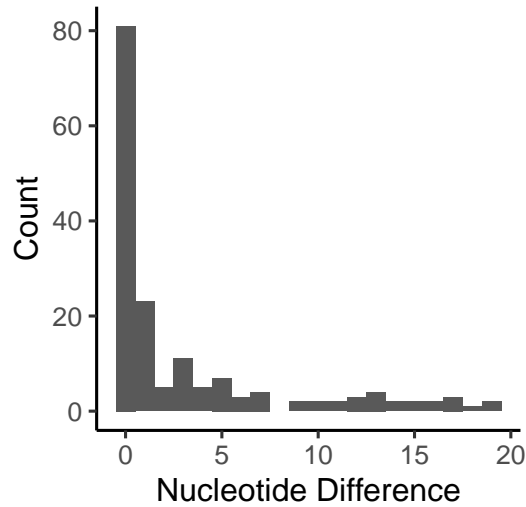
IGHV4-31*03

317 sequences assigned
189 (59.6%) exact matches, in which:
187 unique CDR3
7 unique J



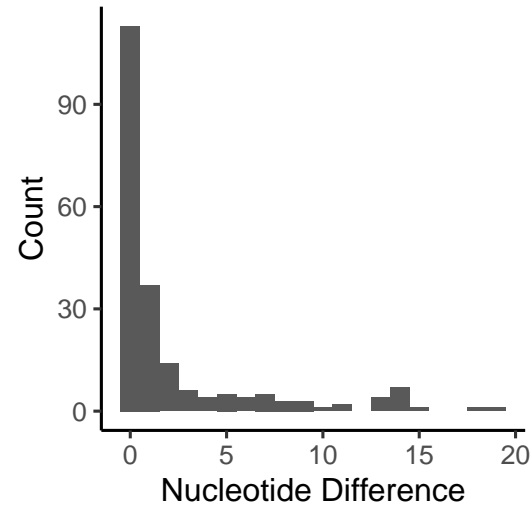
IGHV4-59*01

171 sequences assigned
81 (47.4%) exact matches, in which:
81 unique CDR3
6 unique J



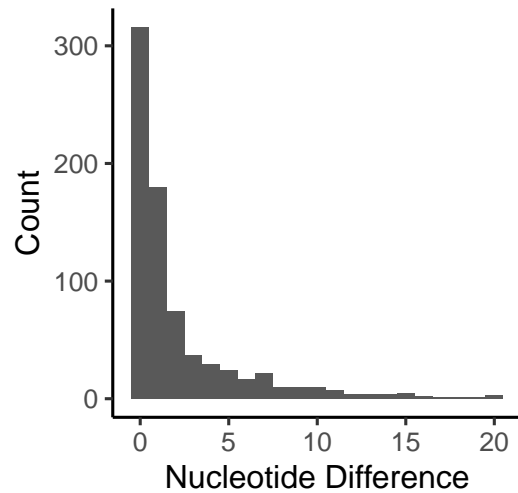
IGHV5-10-1*03

212 sequences assigned
113 (53.3%) exact matches, in which:
112 unique CDR3
6 unique J



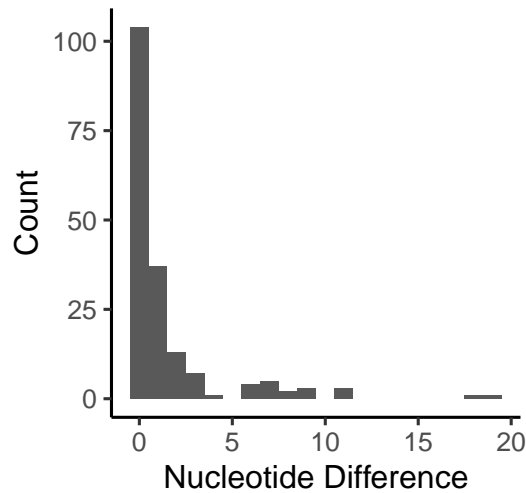
IGHV4-34*01

770 sequences assigned
316 (41%) exact matches, in which:
311 unique CDR3
7 unique J



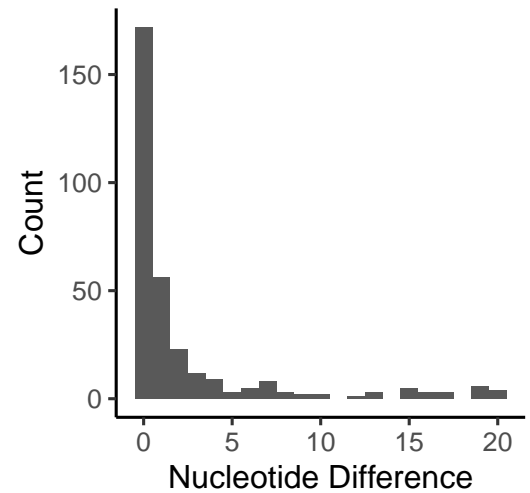
IGHV4-61*02

183 sequences assigned
104 (56.8%) exact matches, in which:
104 unique CDR3
5 unique J



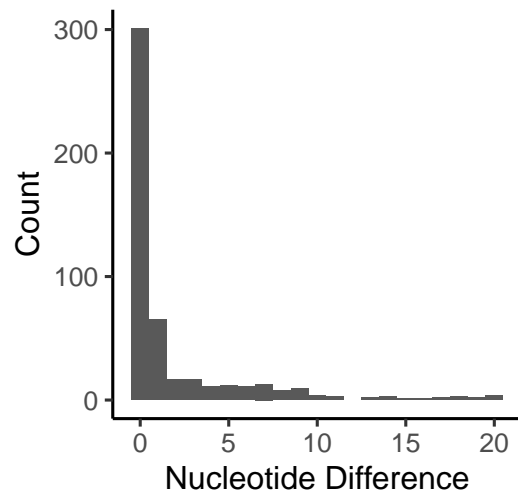
IGHV5-51*01_C45G

327 sequences assigned
172 (52.6%) exact matches, in which:
171 unique CDR3
7 unique J



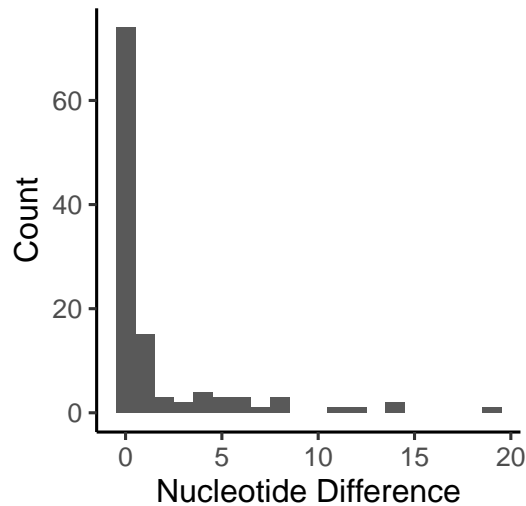
IGHV4-39*01

499 sequences assigned
301 (60.3%) exact matches, in which:
299 unique CDR3
6 unique J



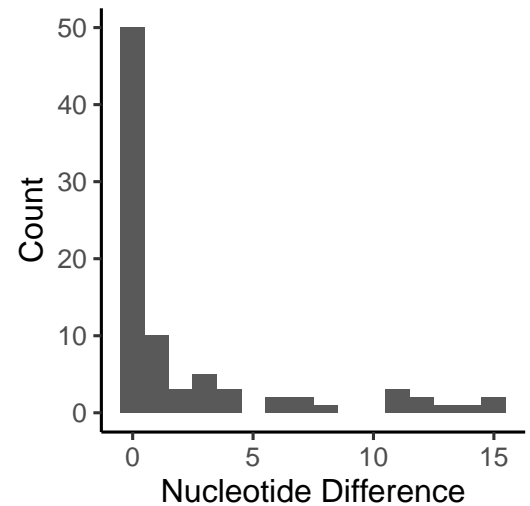
IGHV4-61*02_A234G

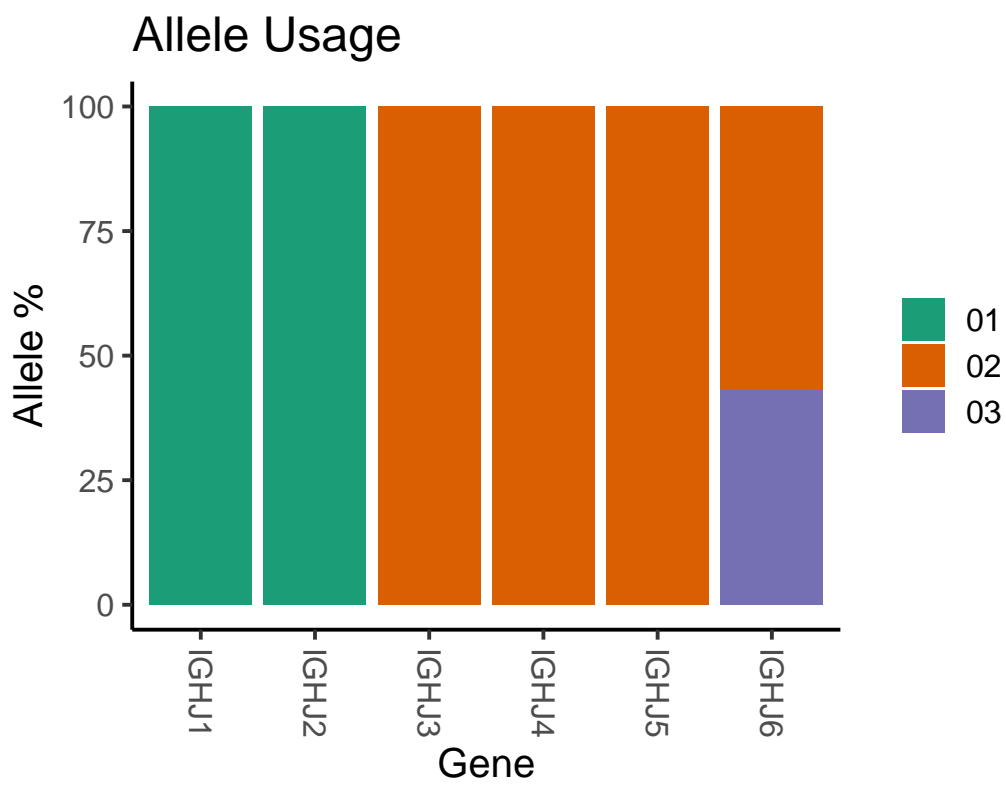
125 sequences assigned
74 (59.2%) exact matches, in which:
74 unique CDR3
5 unique J



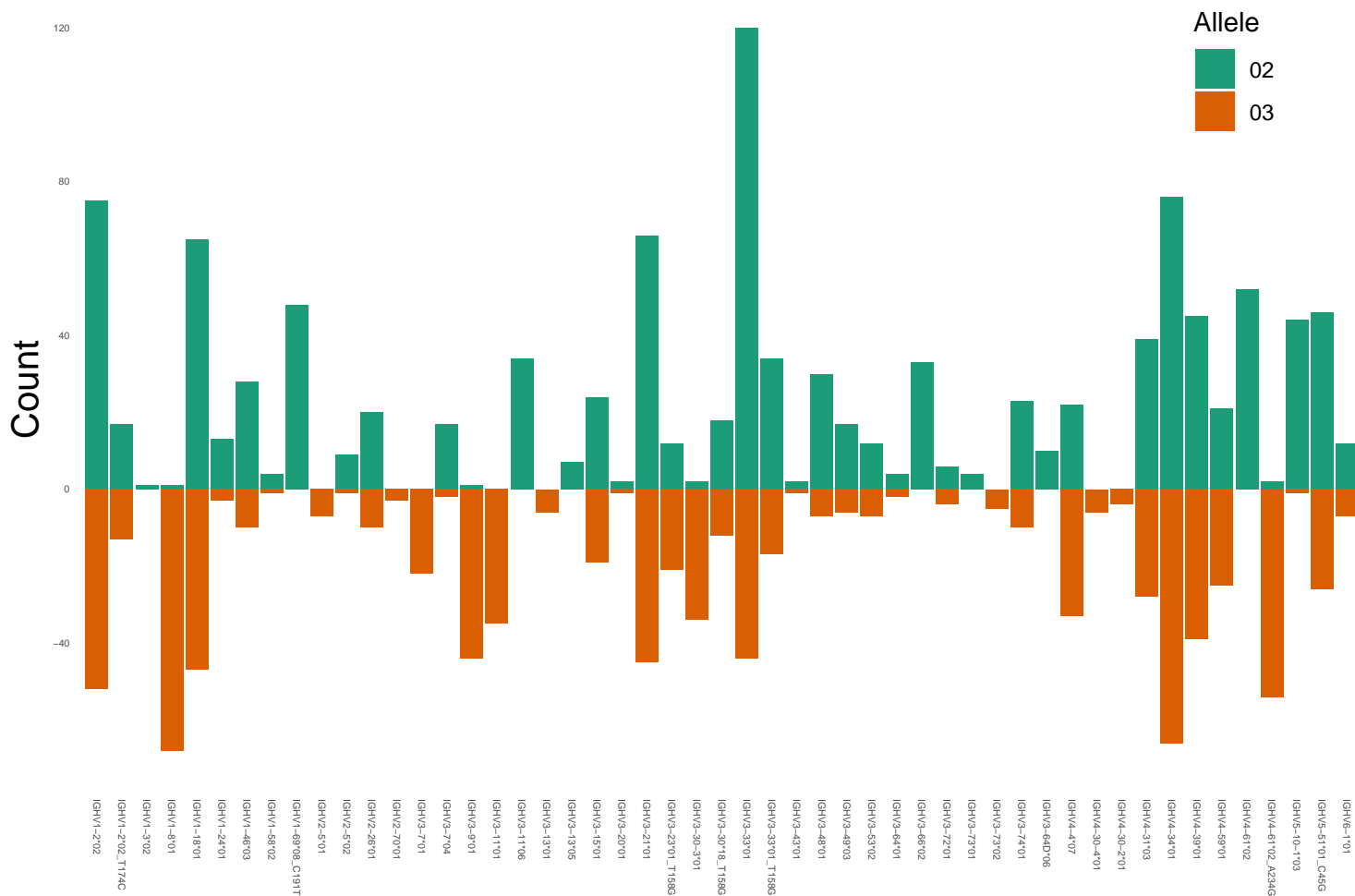
IGHV6-1*01

90 sequences assigned
50 (55.6%) exact matches, in which:
49 unique CDR3
6 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.