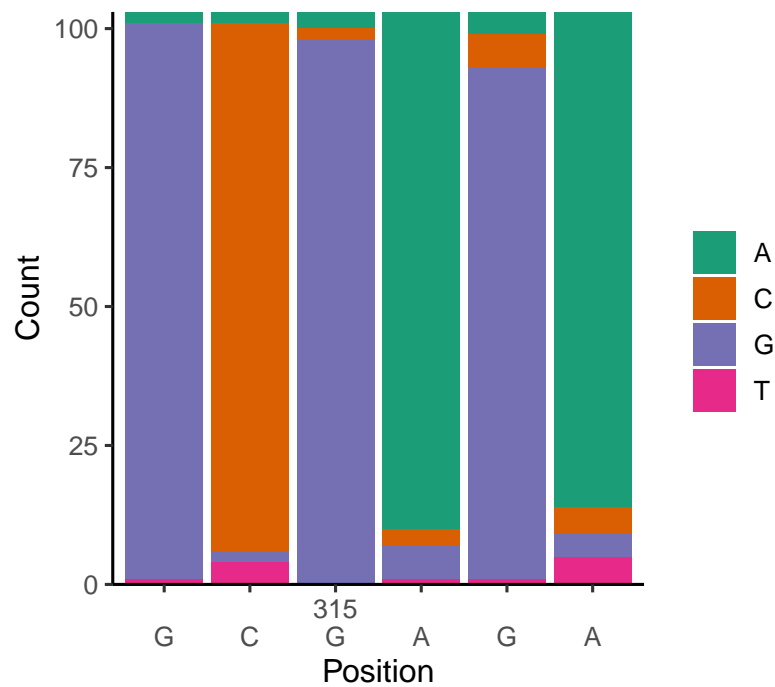
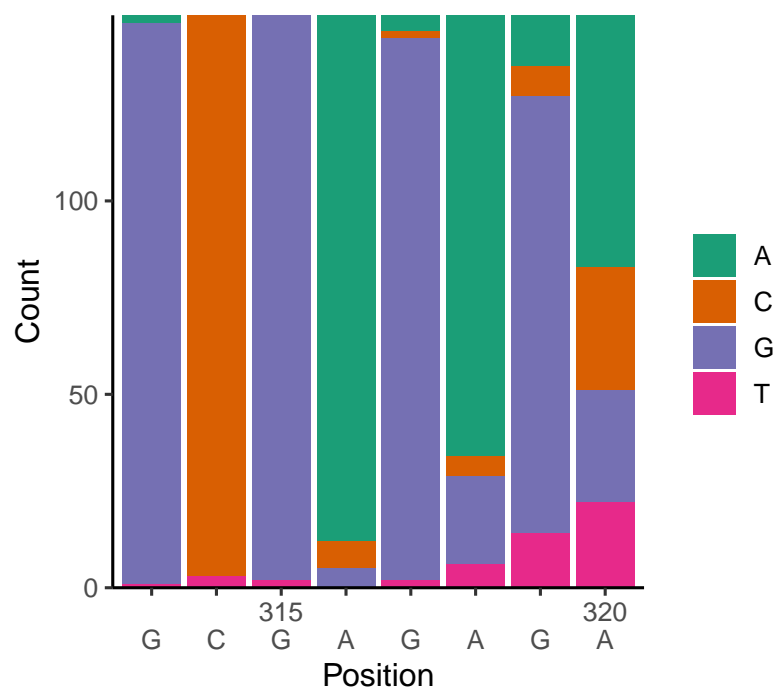


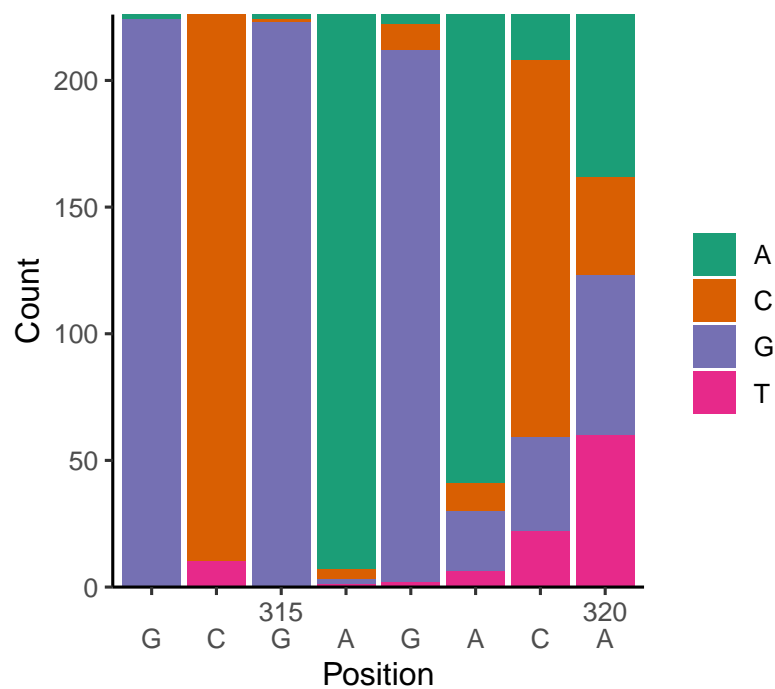
Gene IGHV3-66*02_G51T



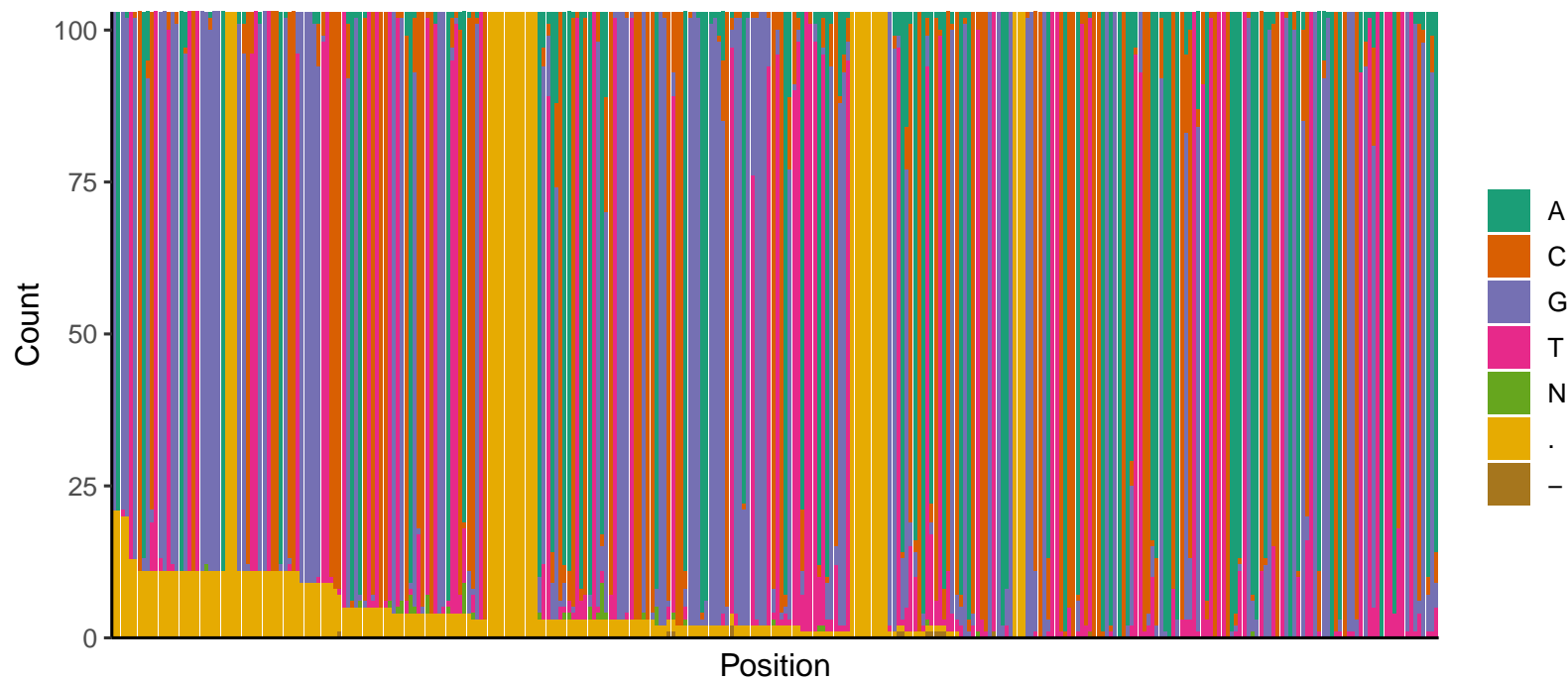
Gene IGHV4-61*02_A234G



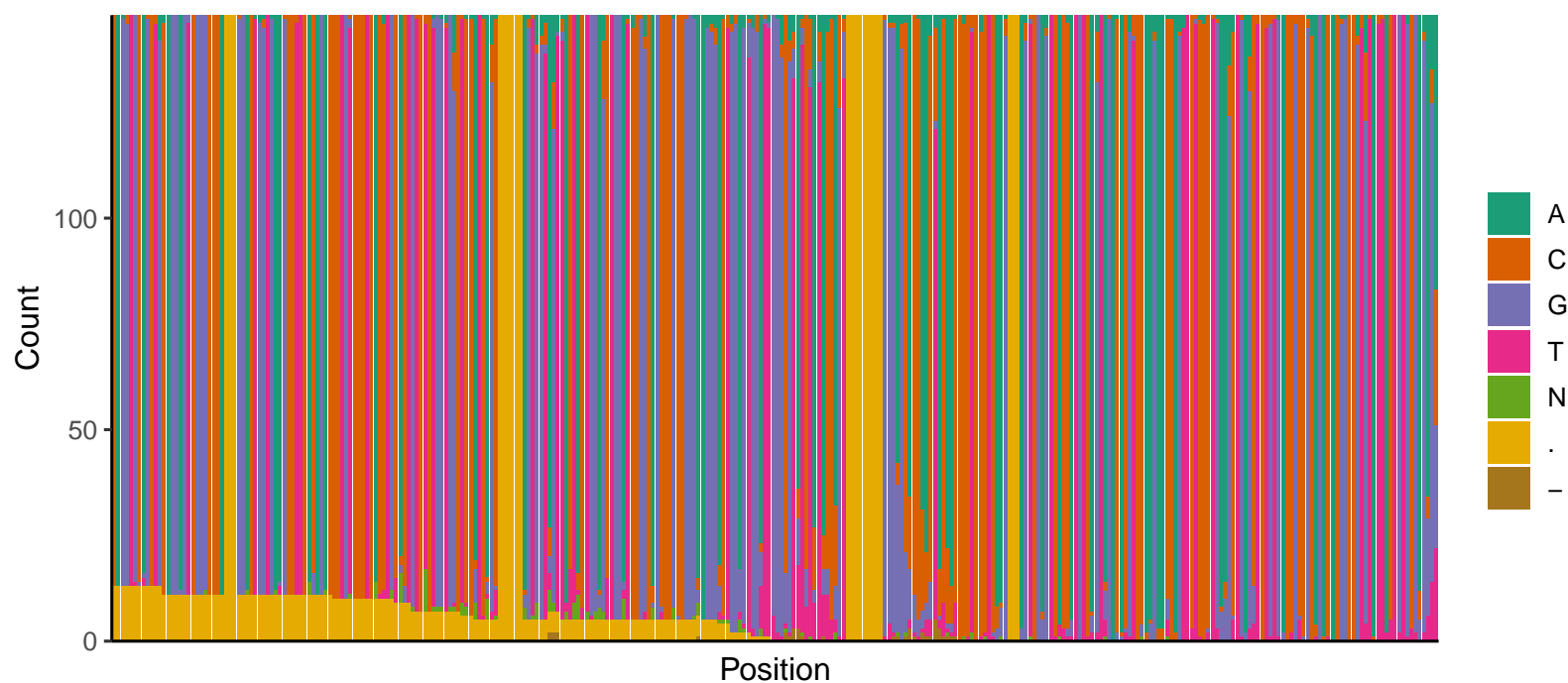
Gene IGHV5-51*01_C45G



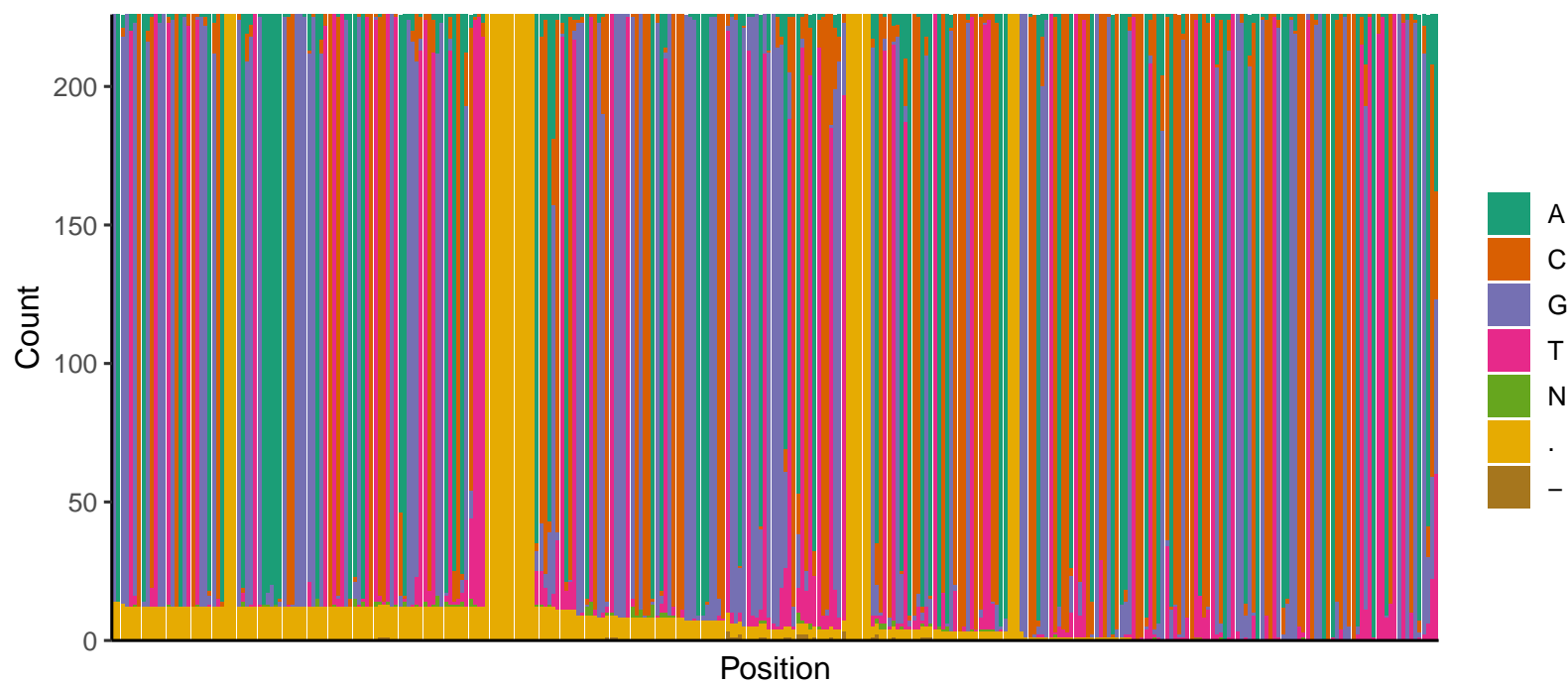
Gene IGHV3-66*02_G51T



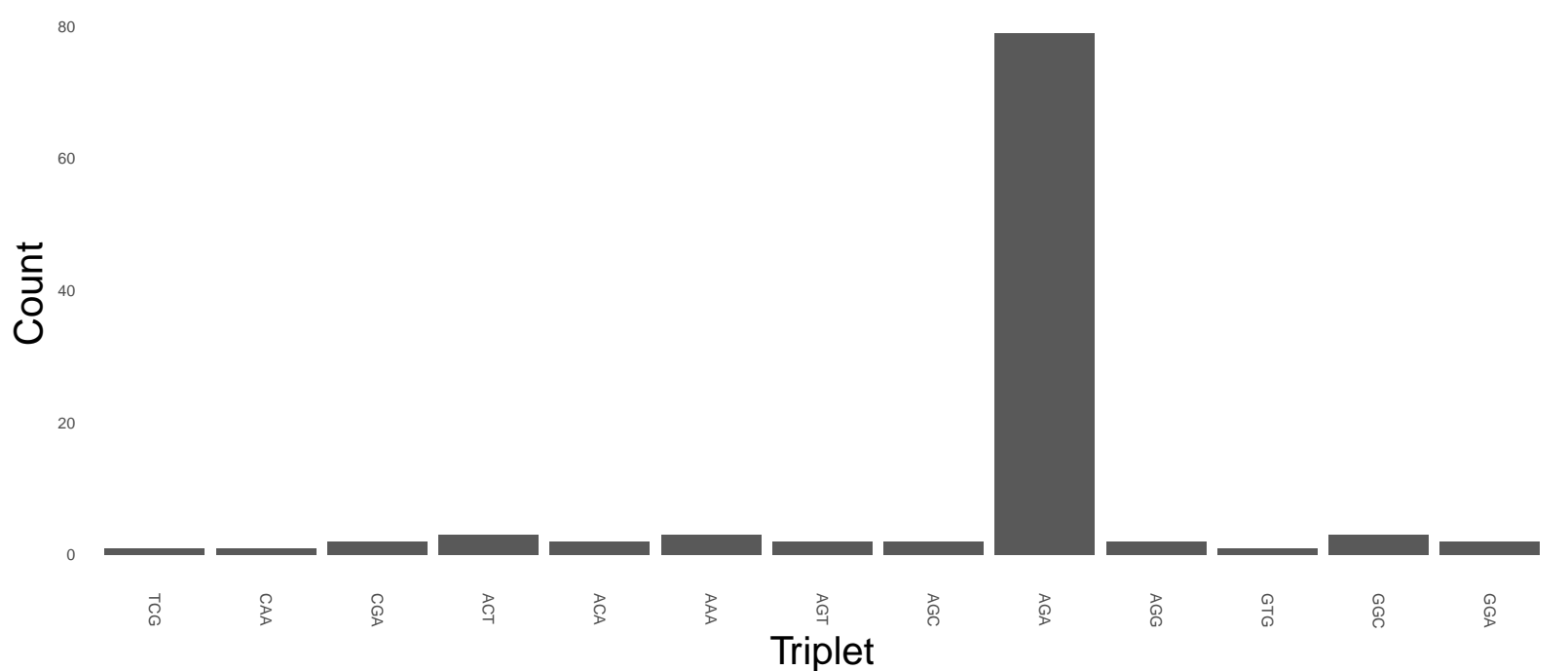
Gene IGHV4-61*02_A234G



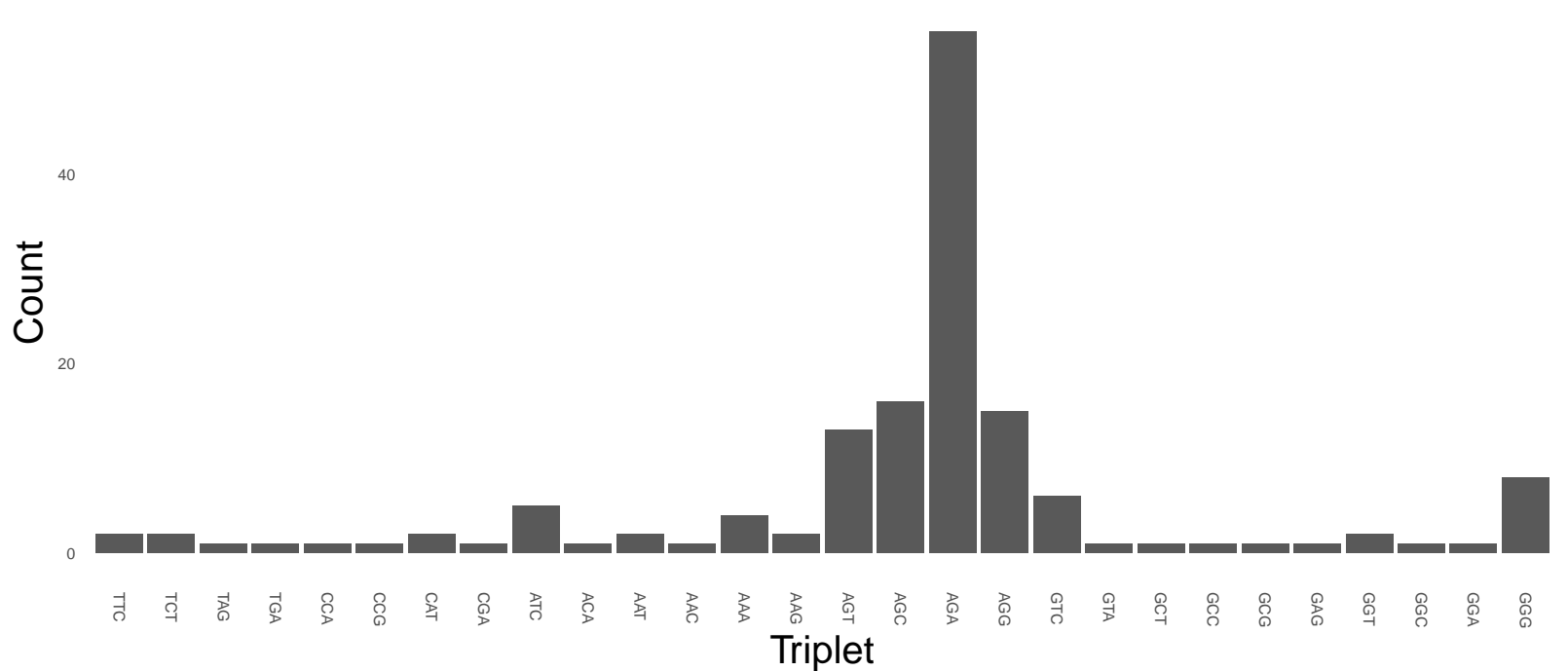
Gene IGHV5-51*01_C45G



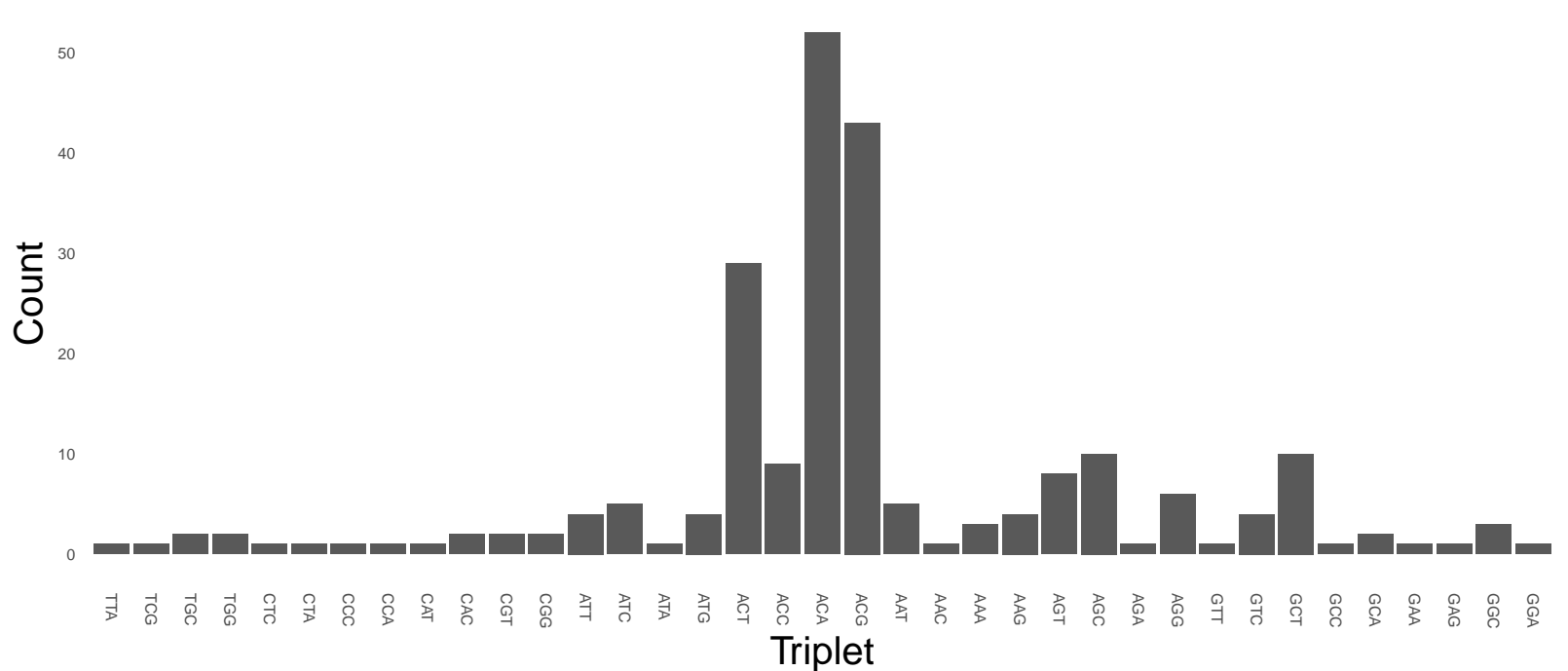
IGHV3–66*02_G51T– Final 3 nucleotides as a triplet



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

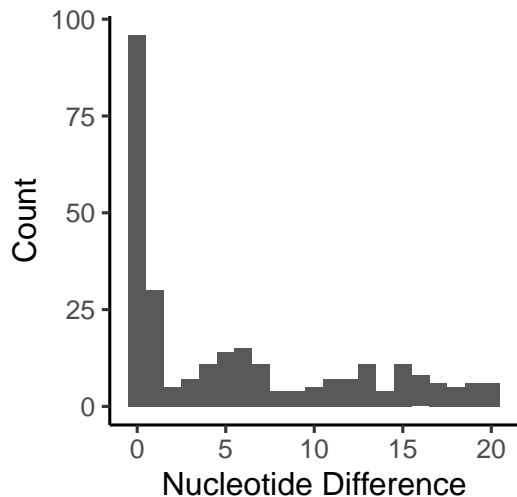


IGHV5–51*01_C45G– Final 3 nucleotides as a triplet



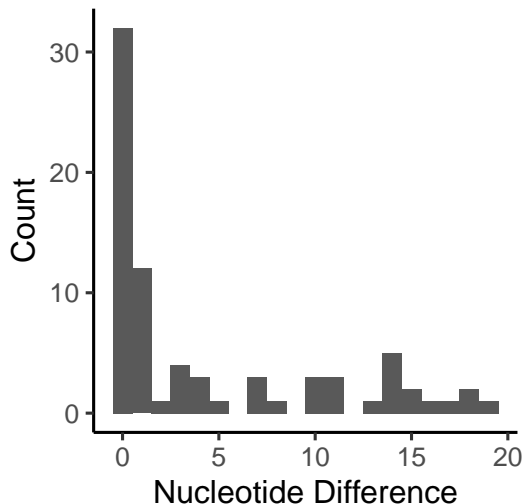
IGHV1-2*02

362 sequences assigned
96 (26.5%) exact matches, in which:
94 unique CDR3
6 unique J



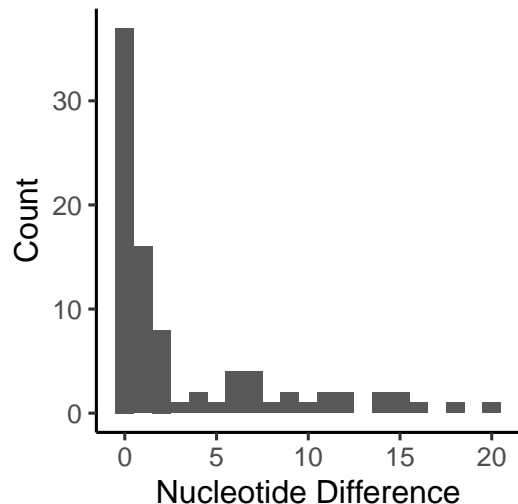
IGHV1-18*01

102 sequences assigned
32 (31.4%) exact matches, in which:
32 unique CDR3
4 unique J



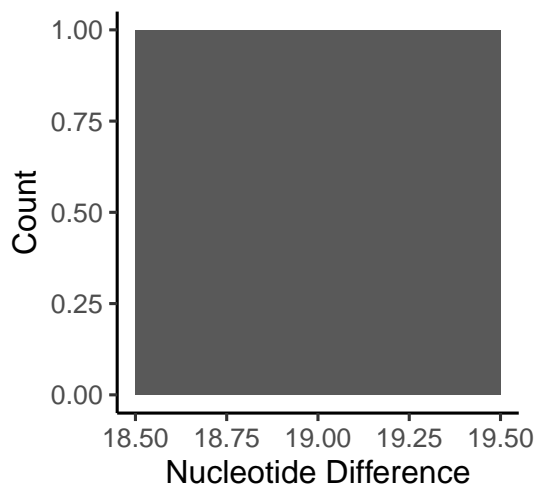
IGHV1-46*03

116 sequences assigned
37 (31.9%) exact matches, in which:
37 unique CDR3
6 unique J



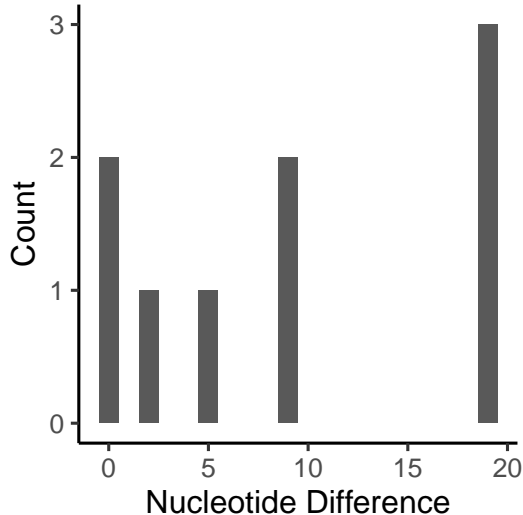
IGHV1-3*01

1 sequences assigned
No exact matches.



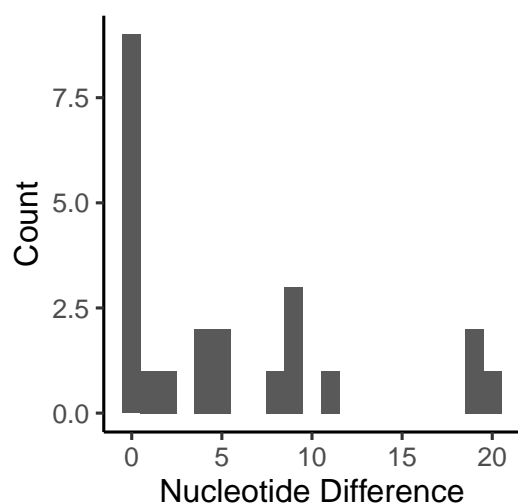
IGHV1-24*01

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
1 unique J



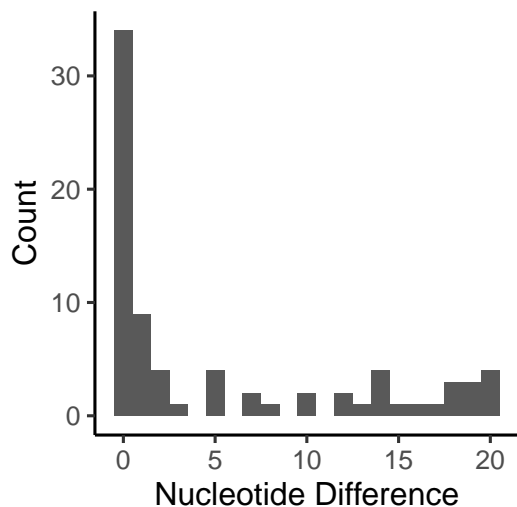
IGHV1-58*02

24 sequences assigned
9 (37.5%) exact matches, in which:
9 unique CDR3
4 unique J



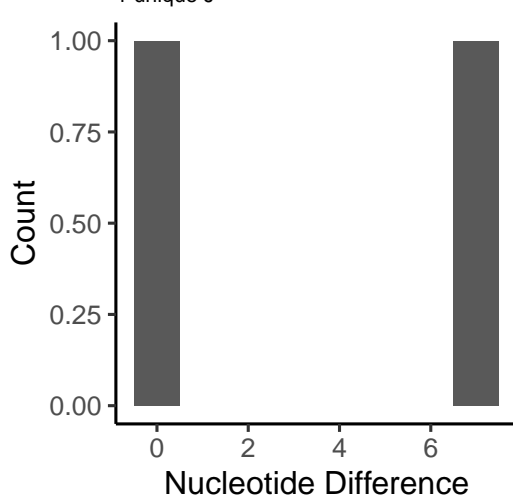
IGHV1-8*01

117 sequences assigned
34 (29.1%) exact matches, in which:
33 unique CDR3
5 unique J



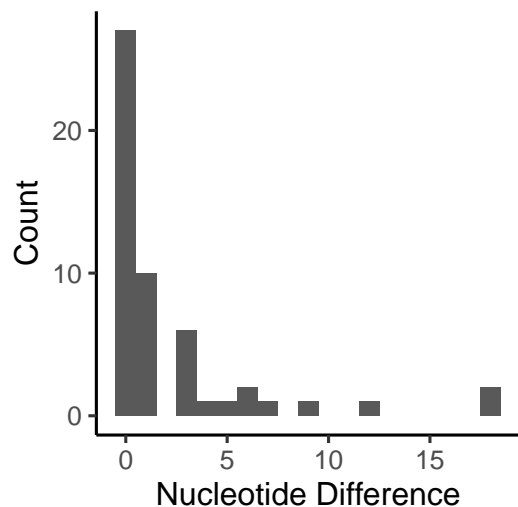
IGHV1-45*02

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



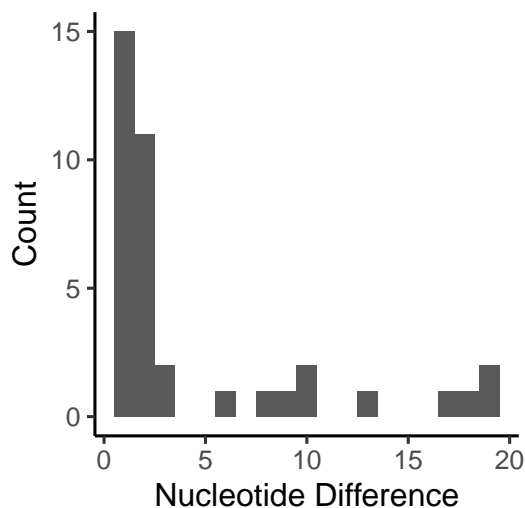
IGHV1-69*02

54 sequences assigned
27 (50%) exact matches, in which:
26 unique CDR3
3 unique J



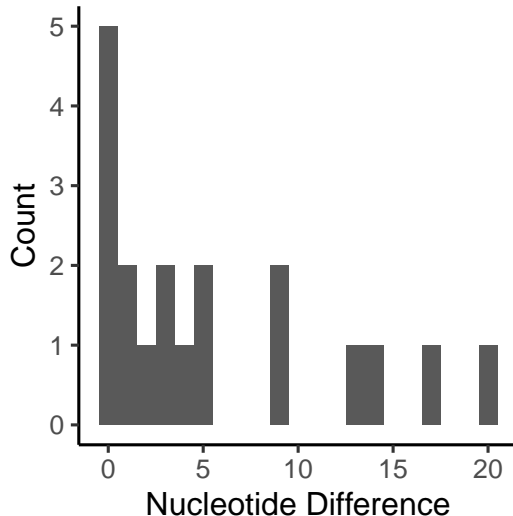
IGHV1-69*08

45 sequences assigned
No exact matches.



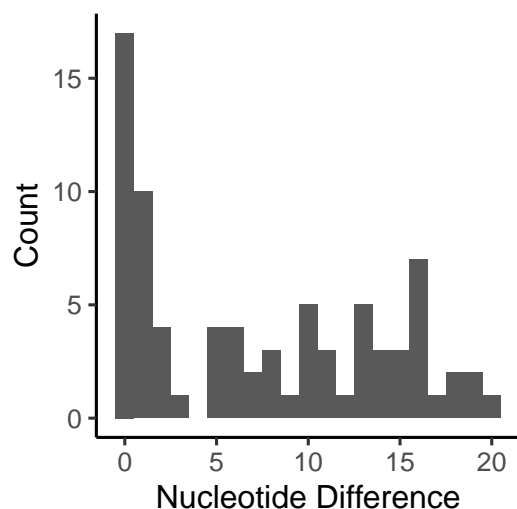
IGHV2-26*01

20 sequences assigned
5 (25%) exact matches, in which:
5 unique CDR3
4 unique J



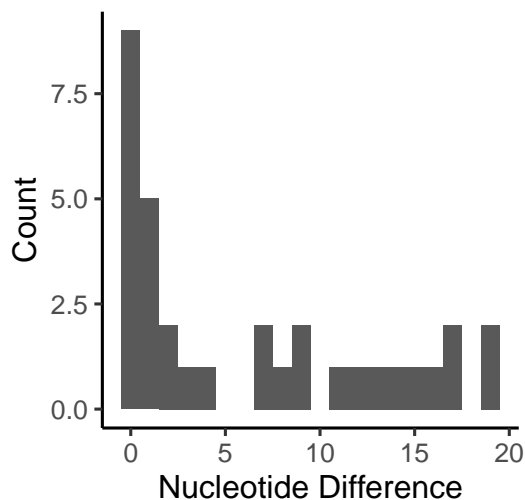
IGHV3-7*04

94 sequences assigned
17 (18.1%) exact matches, in which:
17 unique CDR3
4 unique J



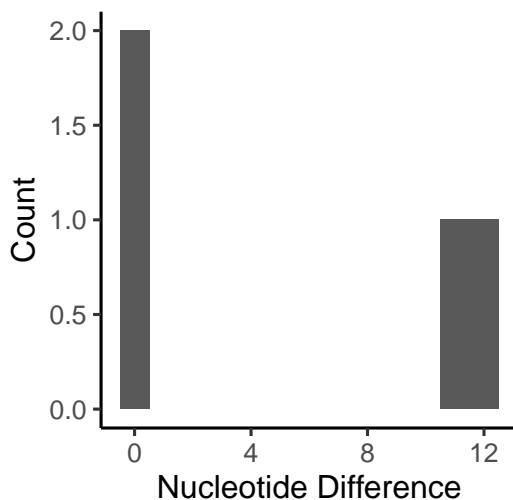
IGHV2-5*01

39 sequences assigned
9 (23.1%) exact matches, in which:
9 unique CDR3
4 unique J



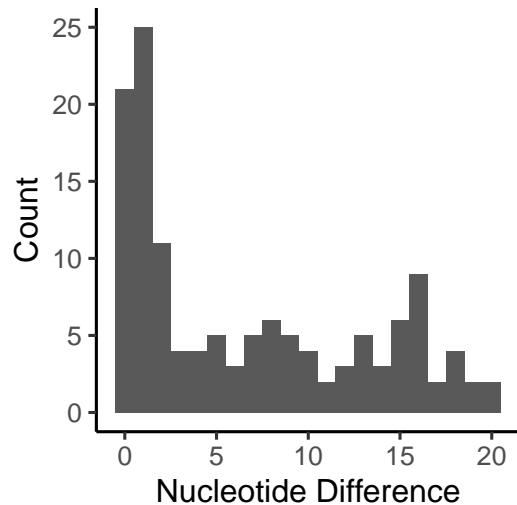
IGHV2-70*01

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



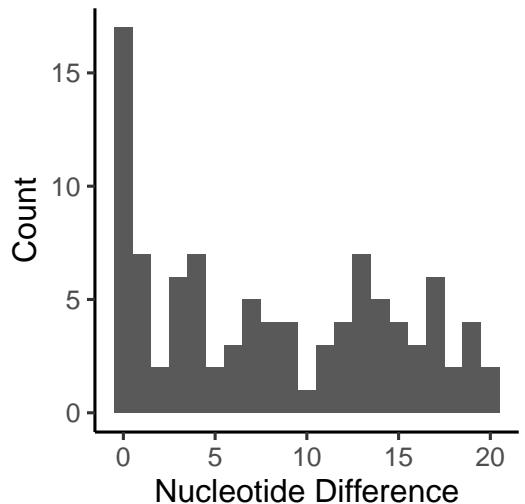
IGHV3-9*01

150 sequences assigned
21 (14%) exact matches, in which:
21 unique CDR3
5 unique J



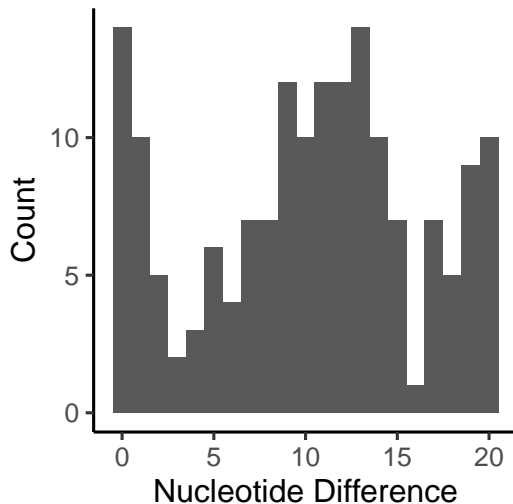
IGHV2-5*02

117 sequences assigned
17 (14.5%) exact matches, in which:
16 unique CDR3
5 unique J



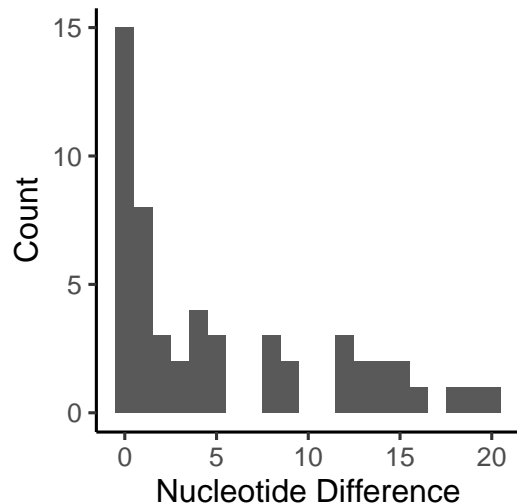
IGHV3-7*01

215 sequences assigned
14 (6.5%) exact matches, in which:
14 unique CDR3
4 unique J



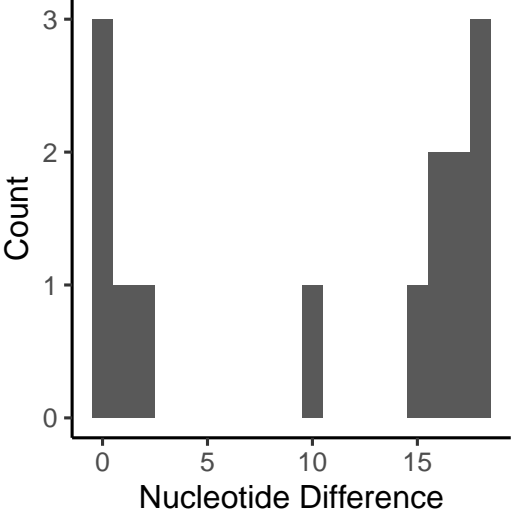
IGHV3-11*01

67 sequences assigned
15 (22.4%) exact matches, in which:
15 unique CDR3
4 unique J



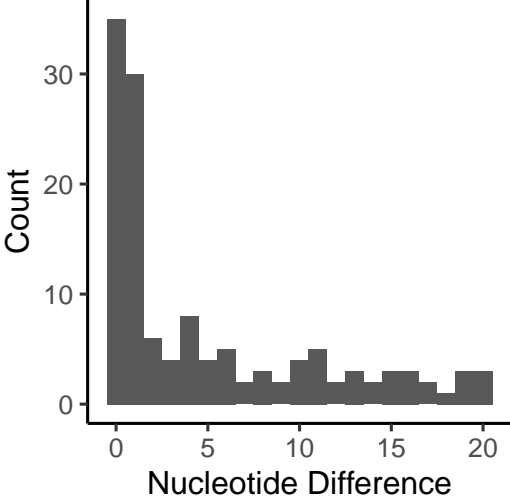
IGHV3-13*01

25 sequences assigned
3 (12%) exact matches, in which:
3 unique CDR3
2 unique J



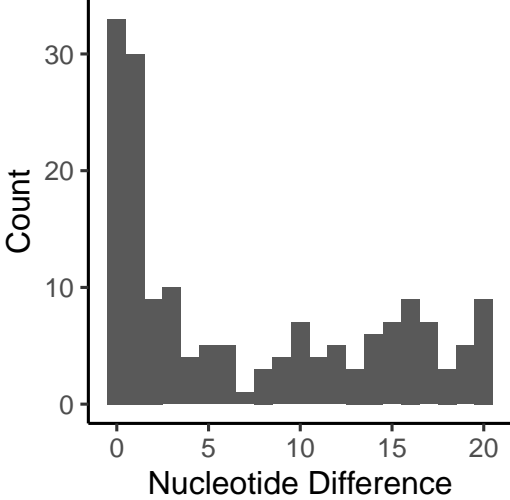
IGHV3-21*01

150 sequences assigned
35 (23.3%) exact matches, in which:
35 unique CDR3
6 unique J



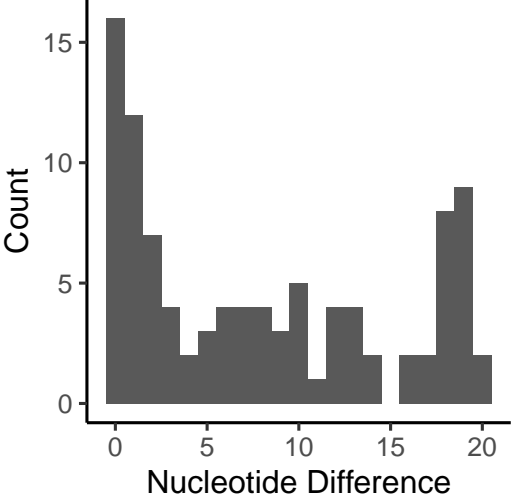
IGHV3-33*01

233 sequences assigned
33 (14.2%) exact matches, in which:
33 unique CDR3
5 unique J



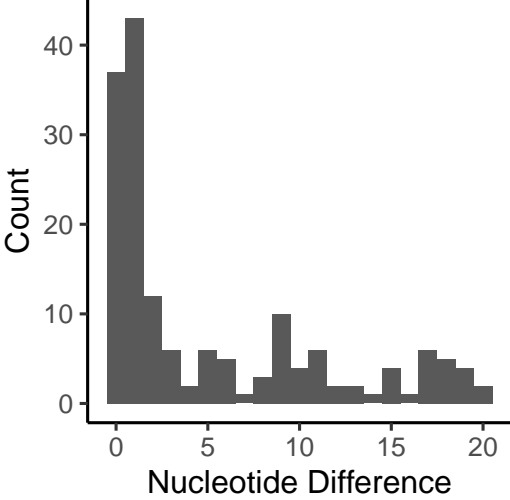
IGHV3-15*01

135 sequences assigned
16 (11.9%) exact matches, in which:
16 unique CDR3
4 unique J



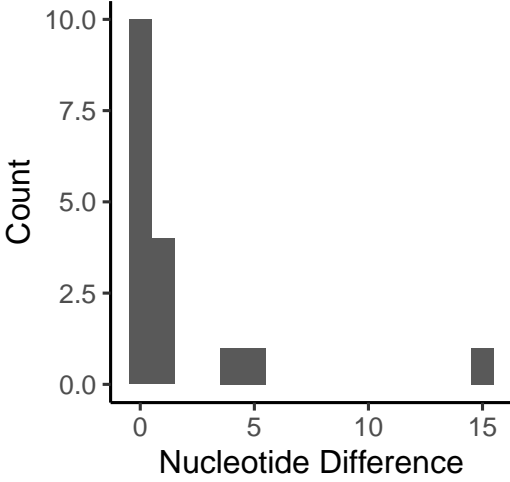
IGHV3-30-3*01

190 sequences assigned
37 (19.5%) exact matches, in which:
37 unique CDR3
5 unique J



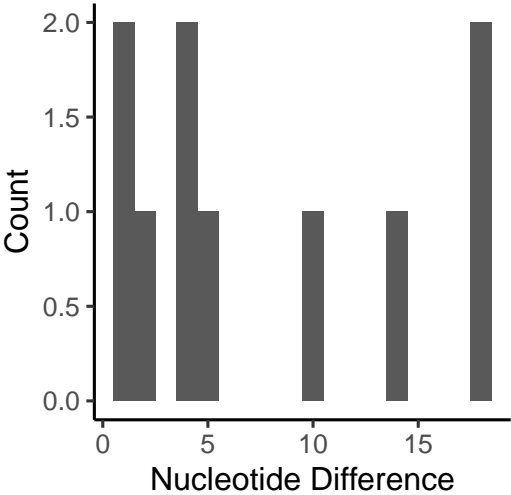
IGHV3-43*01

22 sequences assigned
10 (45.5%) exact matches, in which:
10 unique CDR3
3 unique J



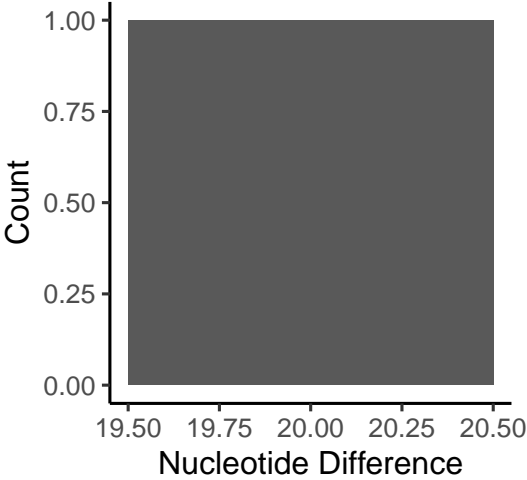
IGHV3-20*01

12 sequences assigned
No exact matches.



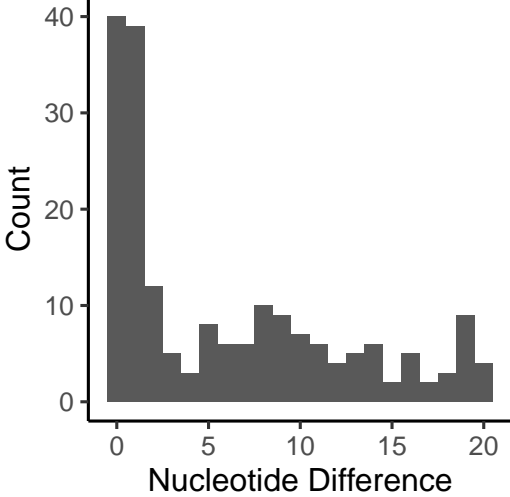
IGHV3-30-22*01

1 sequences assigned
No exact matches.



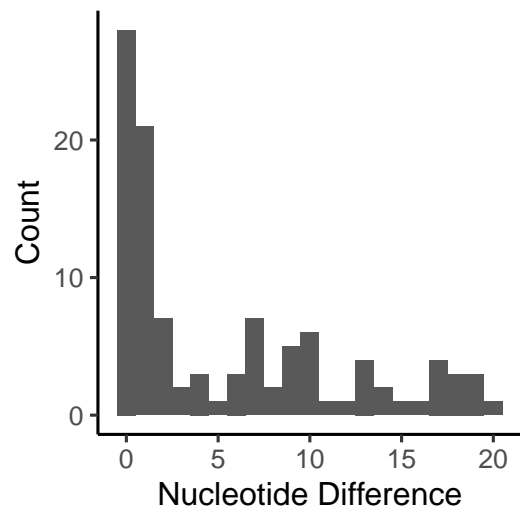
IGHV3-48*01

239 sequences assigned
40 (16.7%) exact matches, in which:
40 unique CDR3
6 unique J



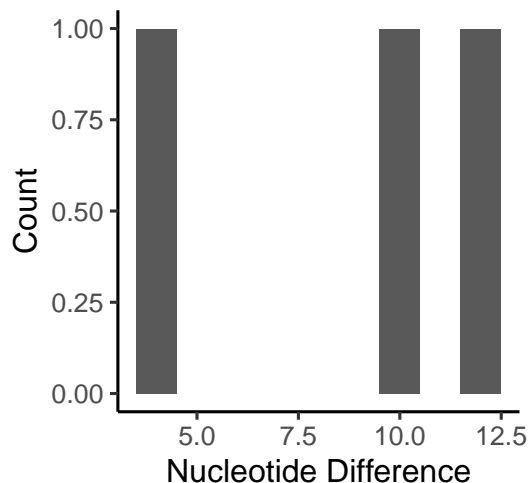
IGHV3-49*03

151 sequences assigned
28 (18.5%) exact matches, in which:
26 unique CDR3
6 unique J



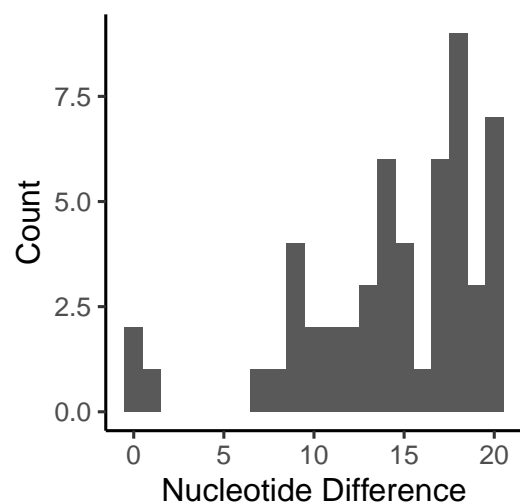
IGHV3-64*02

3 sequences assigned
No exact matches.



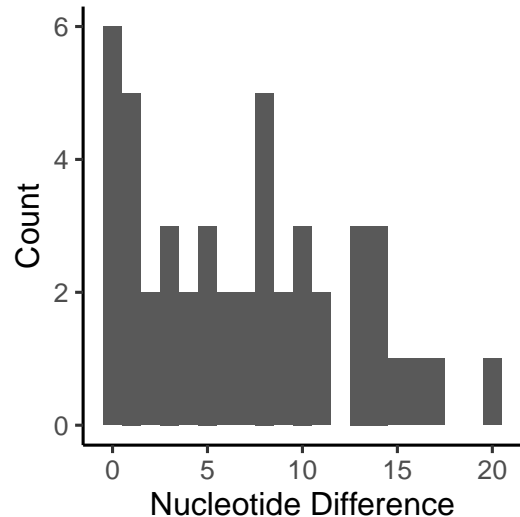
IGHV3-72*01

93 sequences assigned
2 (2.2%) exact matches, in which:
2 unique CDR3
2 unique J



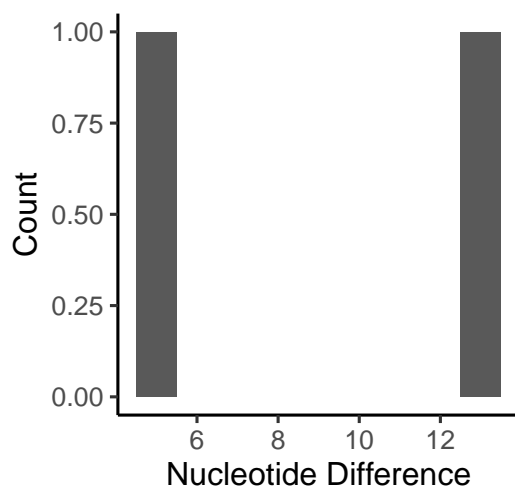
IGHV3-53*02

59 sequences assigned
6 (10.2%) exact matches, in which:
6 unique CDR3
4 unique J



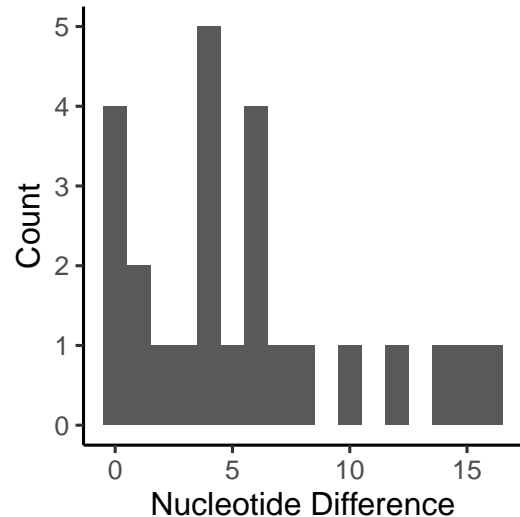
IGHV3-64*07

3 sequences assigned
No exact matches.



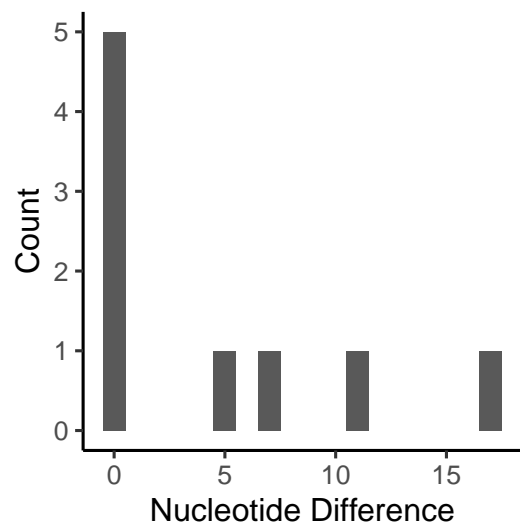
IGHV3-73*01

35 sequences assigned
4 (11.4%) exact matches, in which:
4 unique CDR3
3 unique J



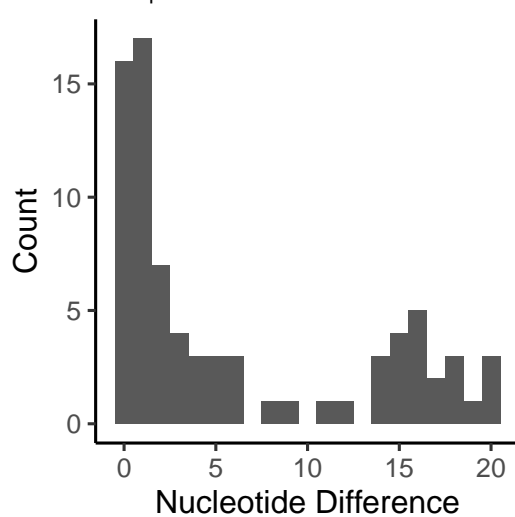
IGHV3-64*01

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



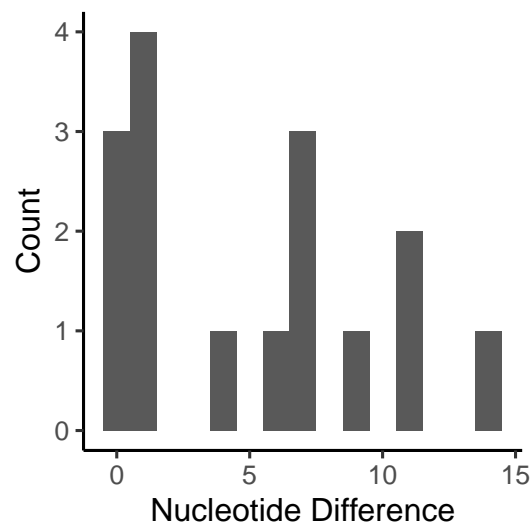
IGHV3-66*02_G51T

103 sequences assigned
16 (15.5%) exact matches, in which:
16 unique CDR3
5 unique J



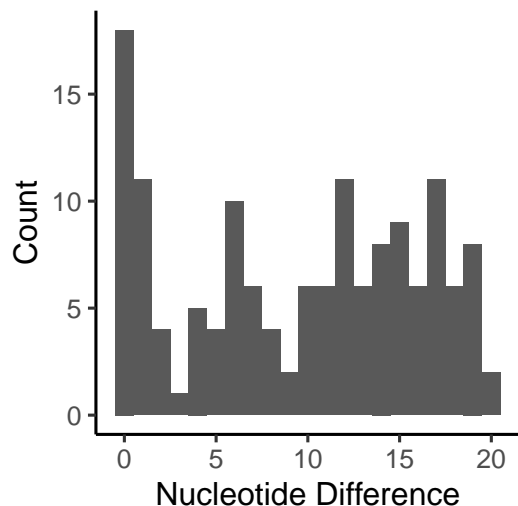
IGHV3-73*02

17 sequences assigned
3 (17.6%) exact matches, in which:
3 unique CDR3
2 unique J



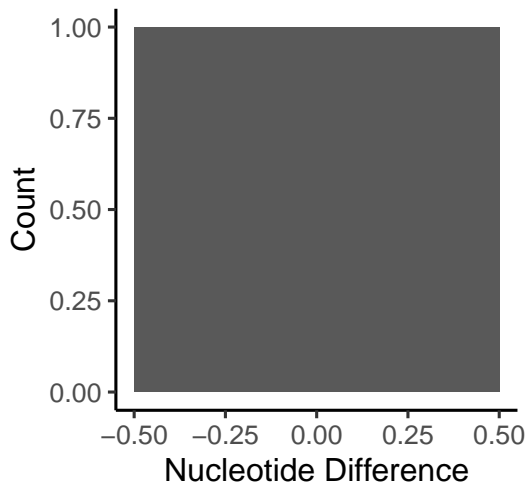
IGHV3-74*01

196 sequences assigned
18 (9.2%) exact matches, in which:
18 unique CDR3
4 unique J



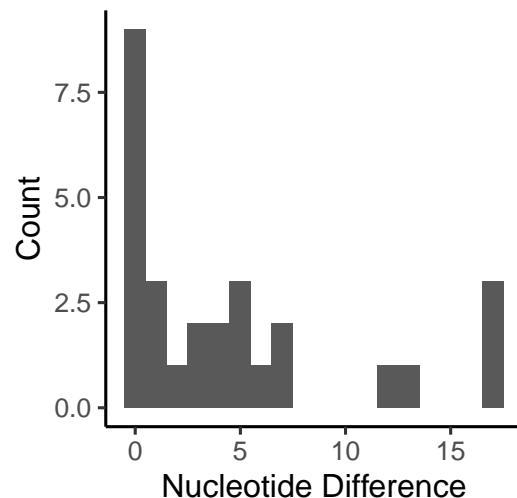
IGHV4-28*01

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



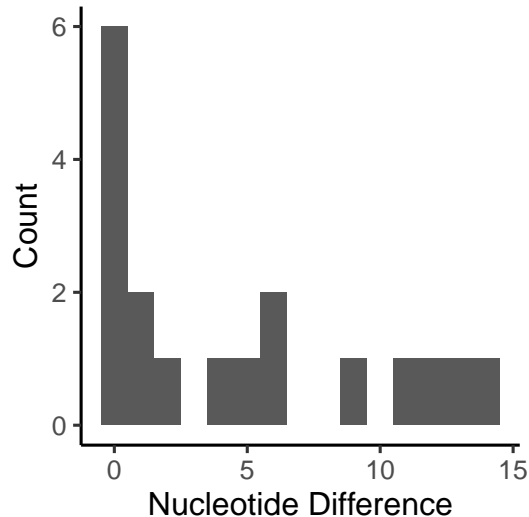
IGHV4-30-4*01

43 sequences assigned
9 (20.9%) exact matches, in which:
9 unique CDR3
4 unique J



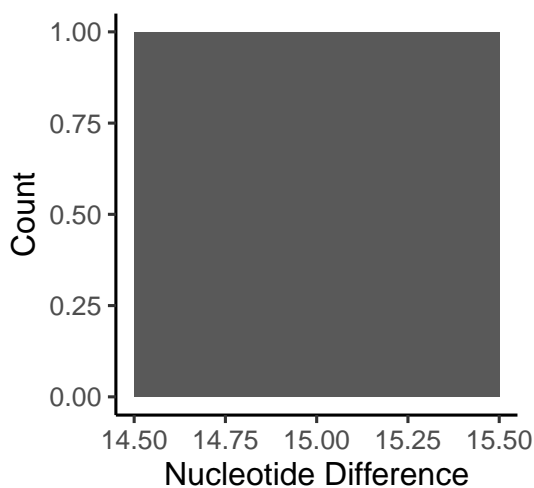
IGHV3-43D*04

19 sequences assigned
6 (31.6%) exact matches, in which:
6 unique CDR3
2 unique J



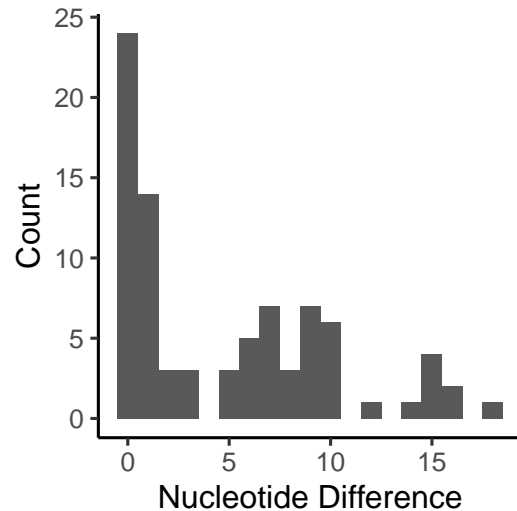
IGHV4-28*04

1 sequences assigned
No exact matches.



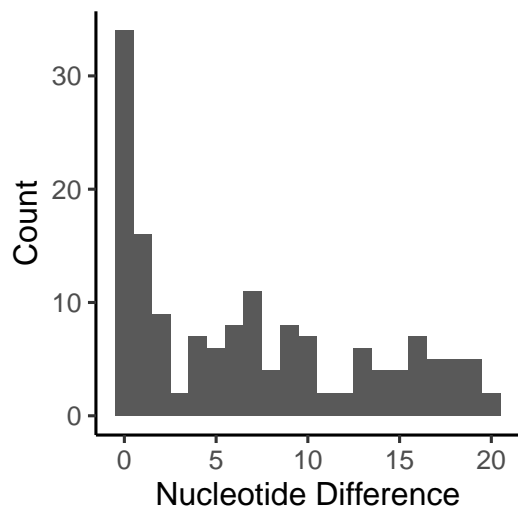
IGHV4-31*03

128 sequences assigned
24 (18.8%) exact matches, in which:
24 unique CDR3
5 unique J



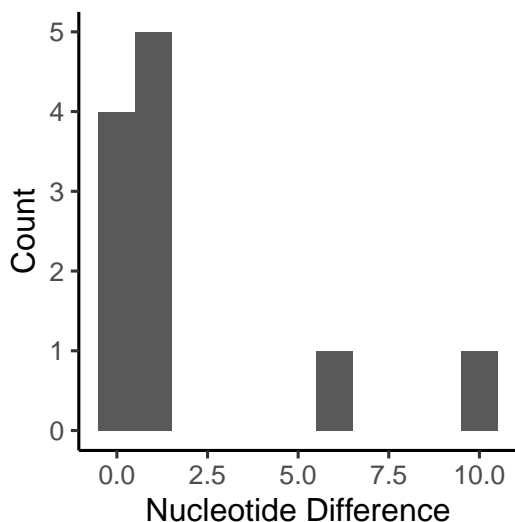
IGHV4-4*07

183 sequences assigned
34 (18.6%) exact matches, in which:
34 unique CDR3
6 unique J



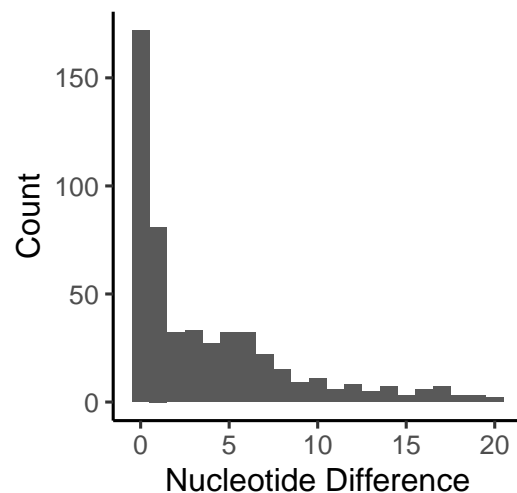
IGHV4-30-2*01

15 sequences assigned
4 (26.7%) exact matches, in which:
4 unique CDR3
3 unique J



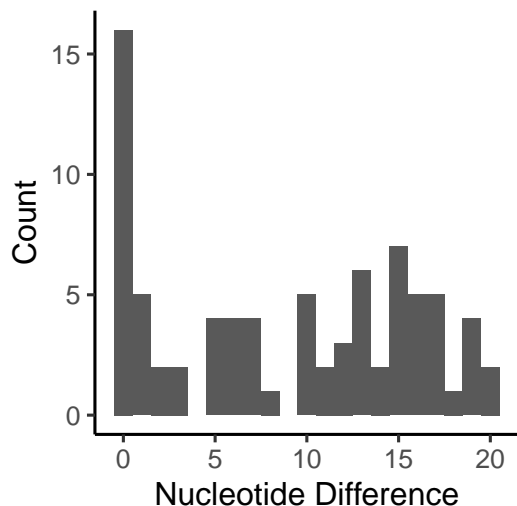
IGHV4-34*01

595 sequences assigned
172 (28.9%) exact matches, in which:
171 unique CDR3
7 unique J



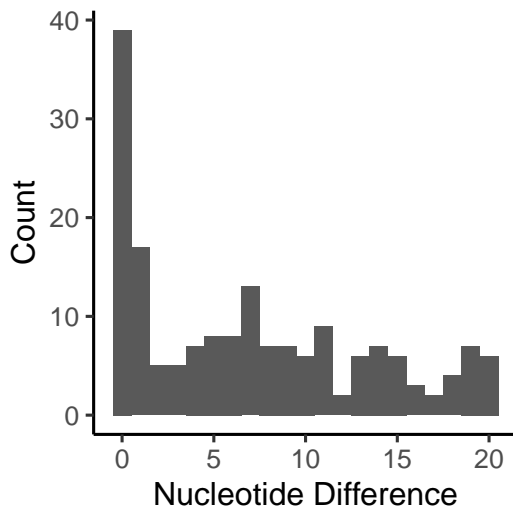
IGHV4-38-2*01

87 sequences assigned
16 (18.4%) exact matches, in which:
16 unique CDR3
4 unique J



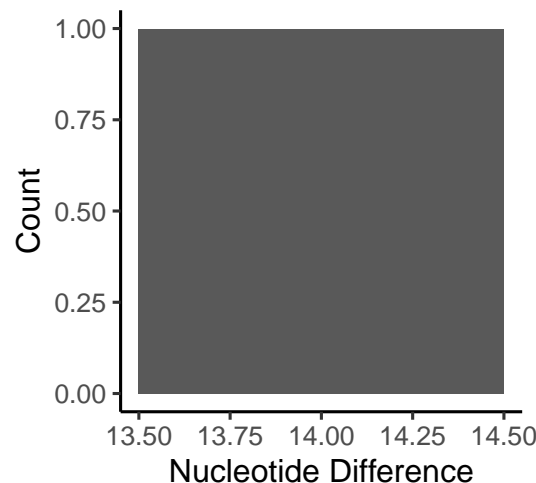
IGHV4-59*01

216 sequences assigned
39 (18.1%) exact matches, in which:
38 unique CDR3
6 unique J



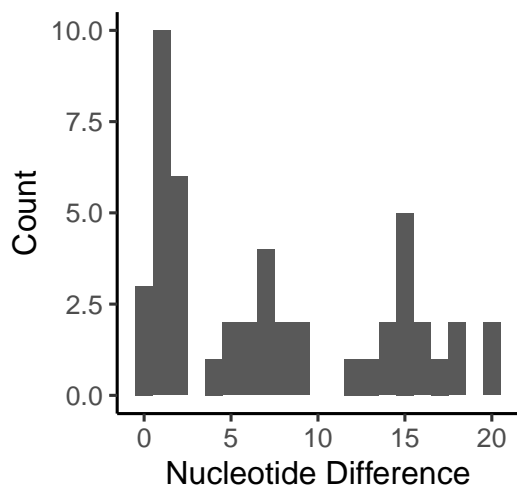
IGHV5-10-1*03

1 sequences assigned
No exact matches.



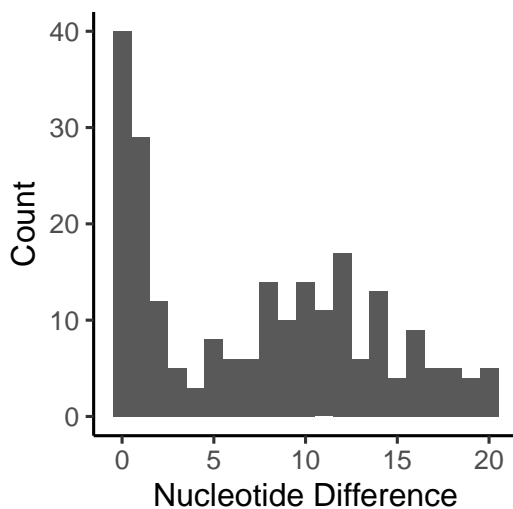
IGHV4-38-2*02

74 sequences assigned
3 (4.1%) exact matches, in which:
2 unique CDR3
1 unique J



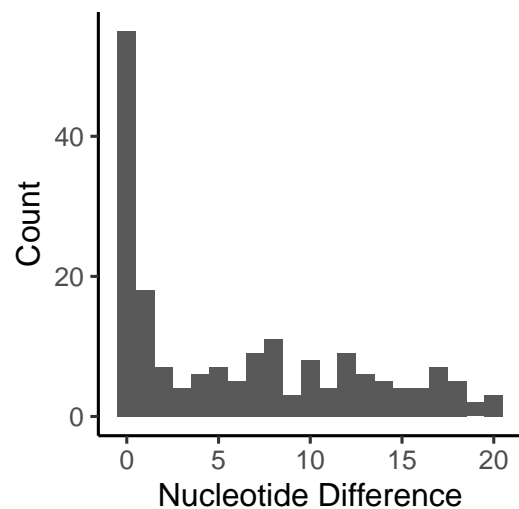
IGHV4-61*02

248 sequences assigned
40 (16.1%) exact matches, in which:
40 unique CDR3
5 unique J



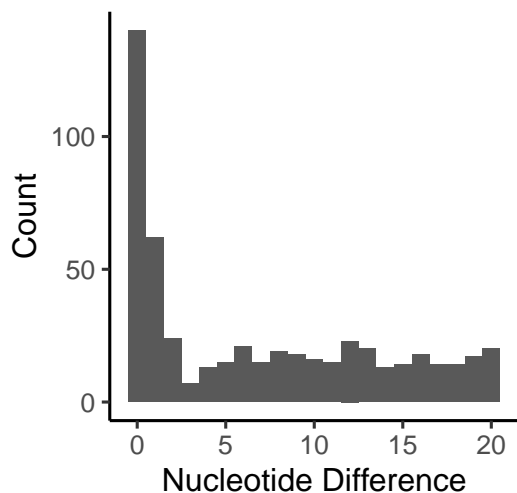
IGHV5-51*01_C45G

226 sequences assigned
55 (24.3%) exact matches, in which:
55 unique CDR3
7 unique J



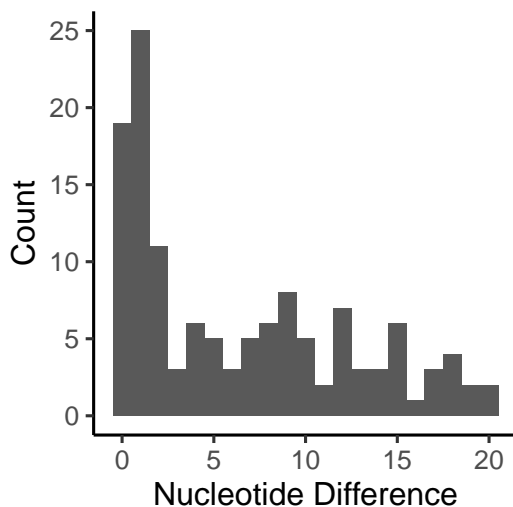
IGHV4-39*01

737 sequences assigned
140 (19%) exact matches, in which:
138 unique CDR3
6 unique J



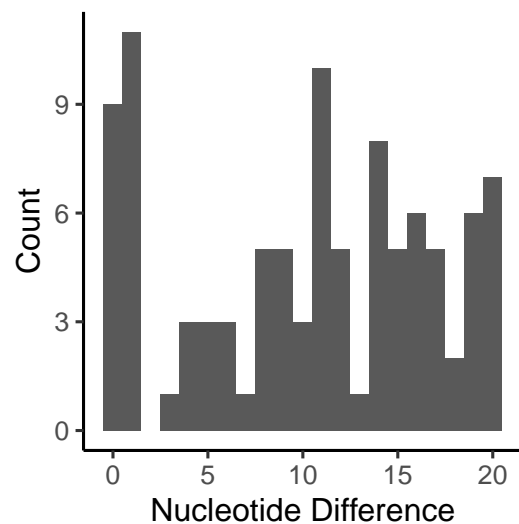
IGHV4-61*02_A234G

148 sequences assigned
19 (12.8%) exact matches, in which:
19 unique CDR3
5 unique J

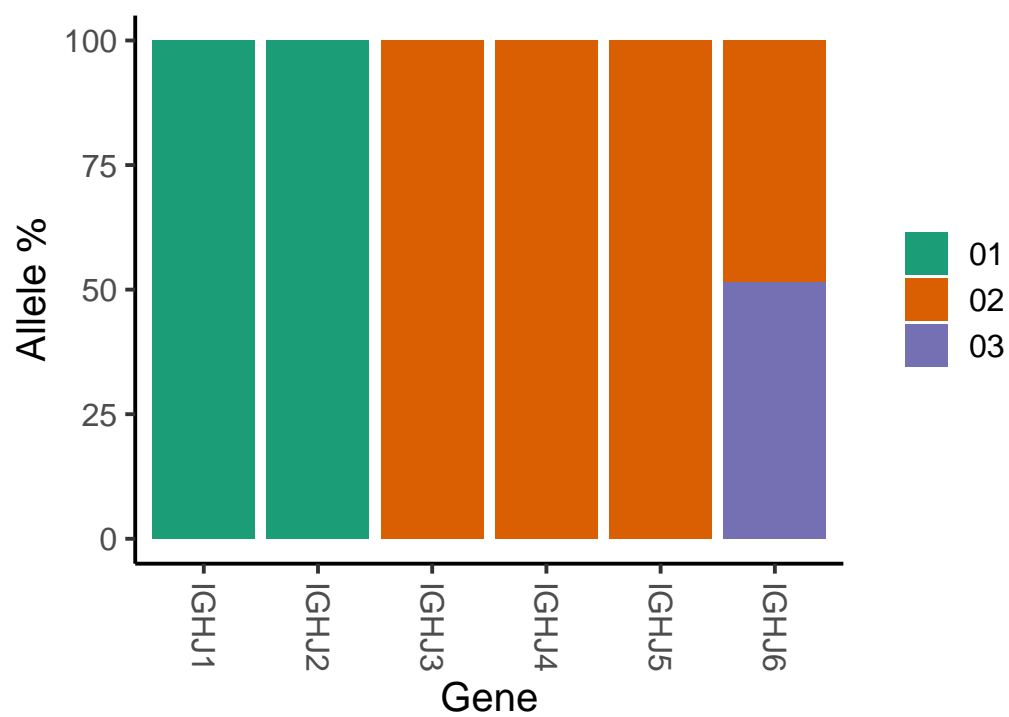


IGHV6-1*01

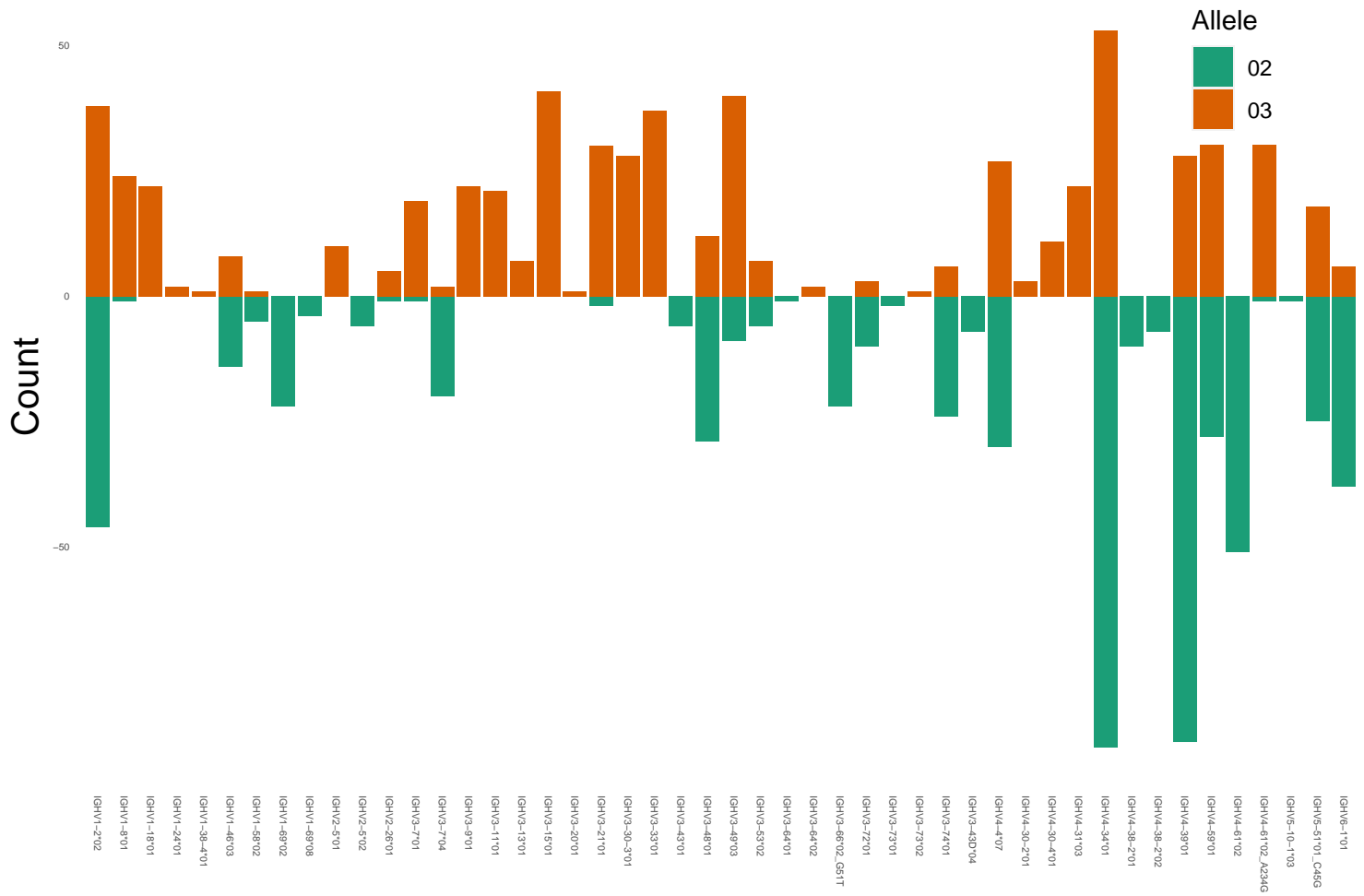
131 sequences assigned
9 (6.9%) exact matches, in which:
9 unique CDR3
5 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.