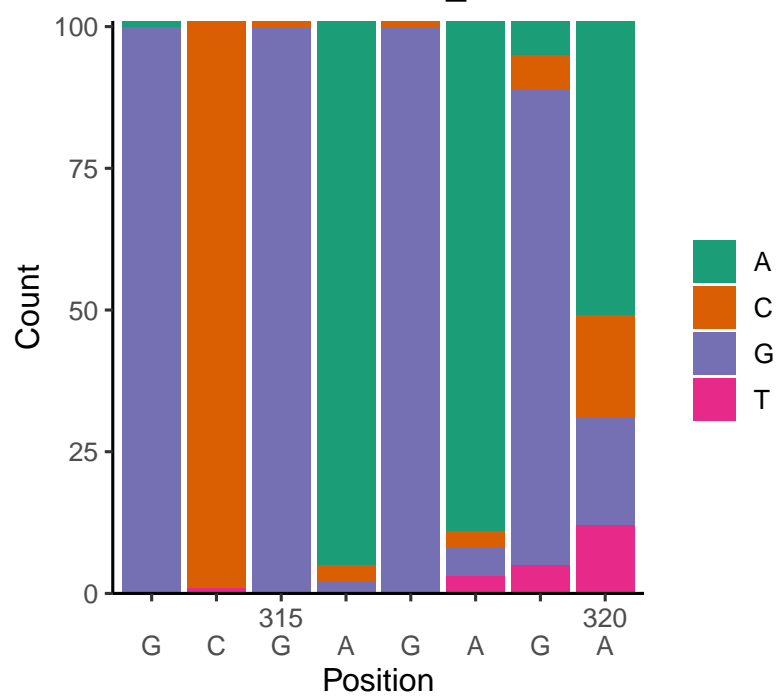
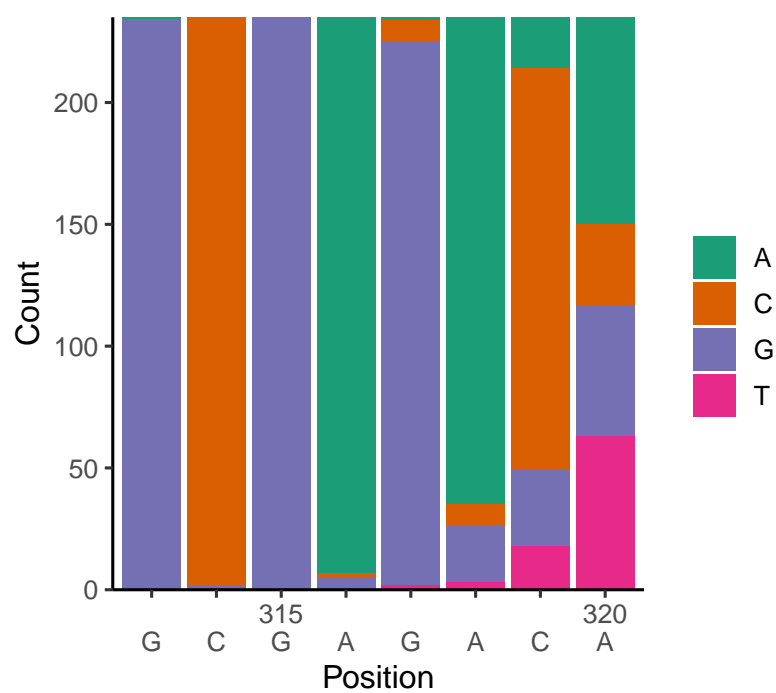


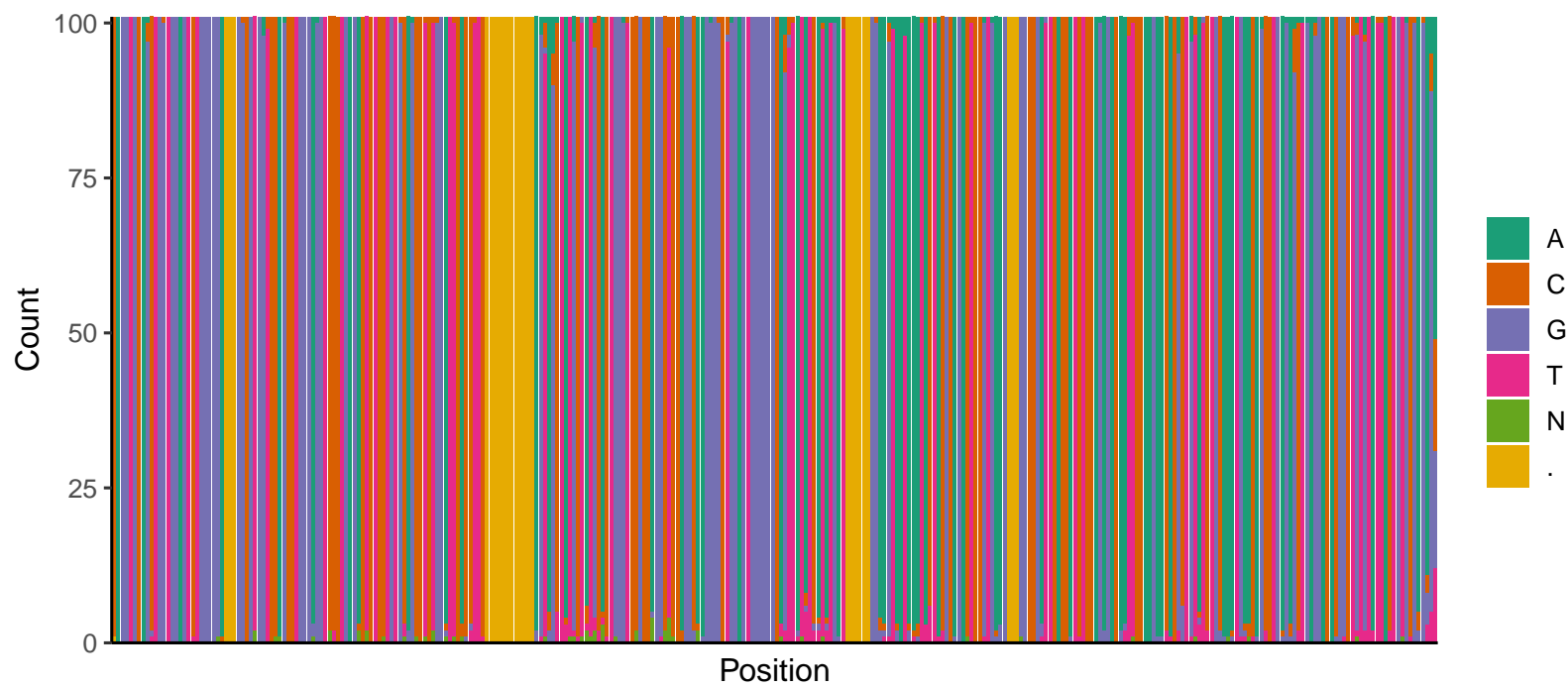
Gene IGHV3-30*04_T158G



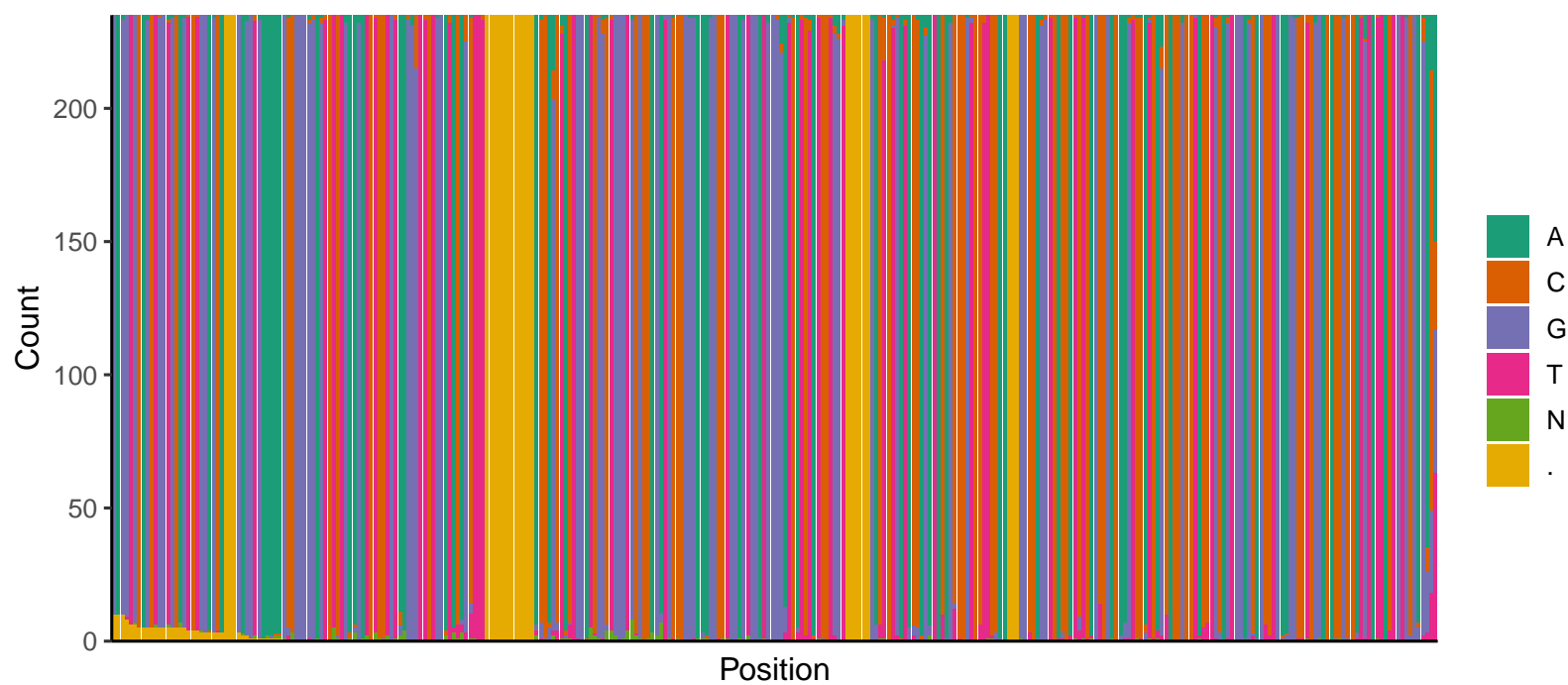
Gene IGHV5-51*01_C45G



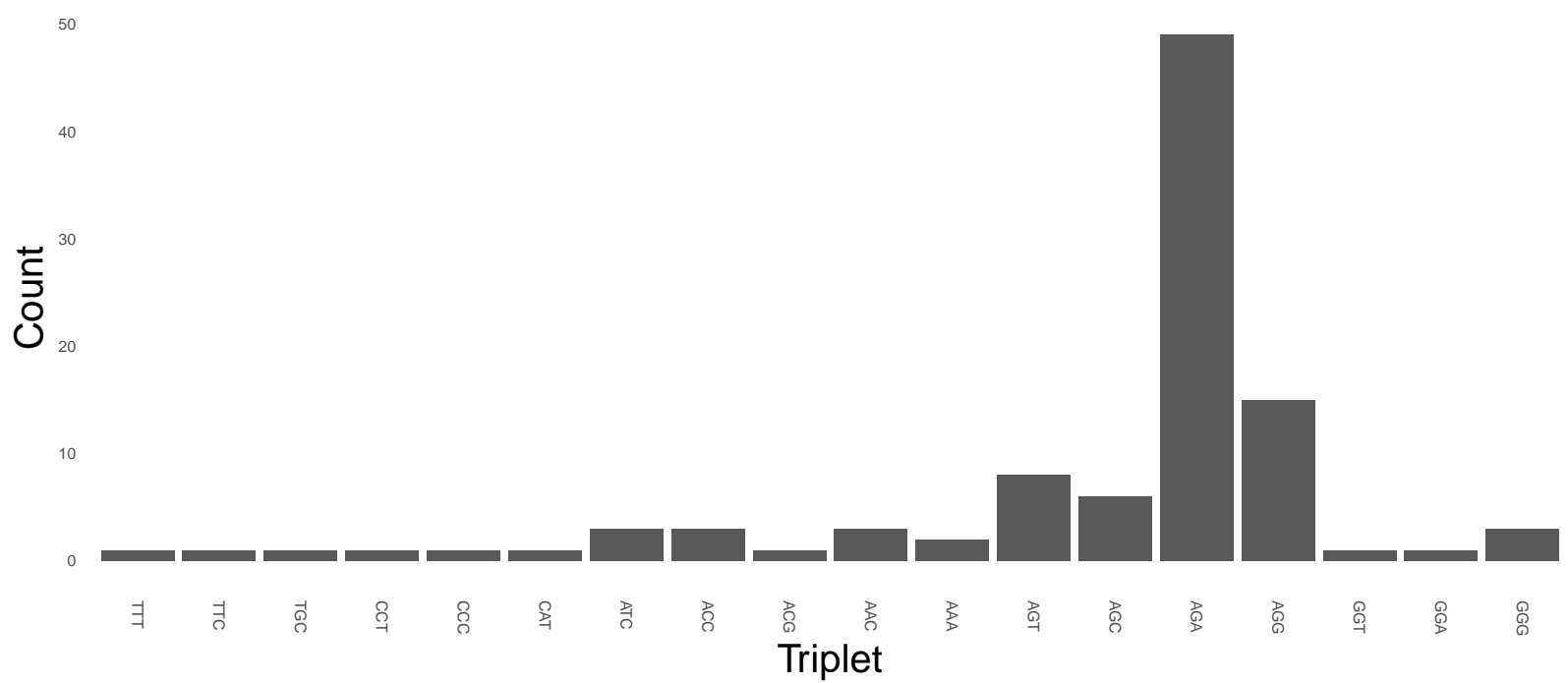
Gene IGHV3-30*04_T158G



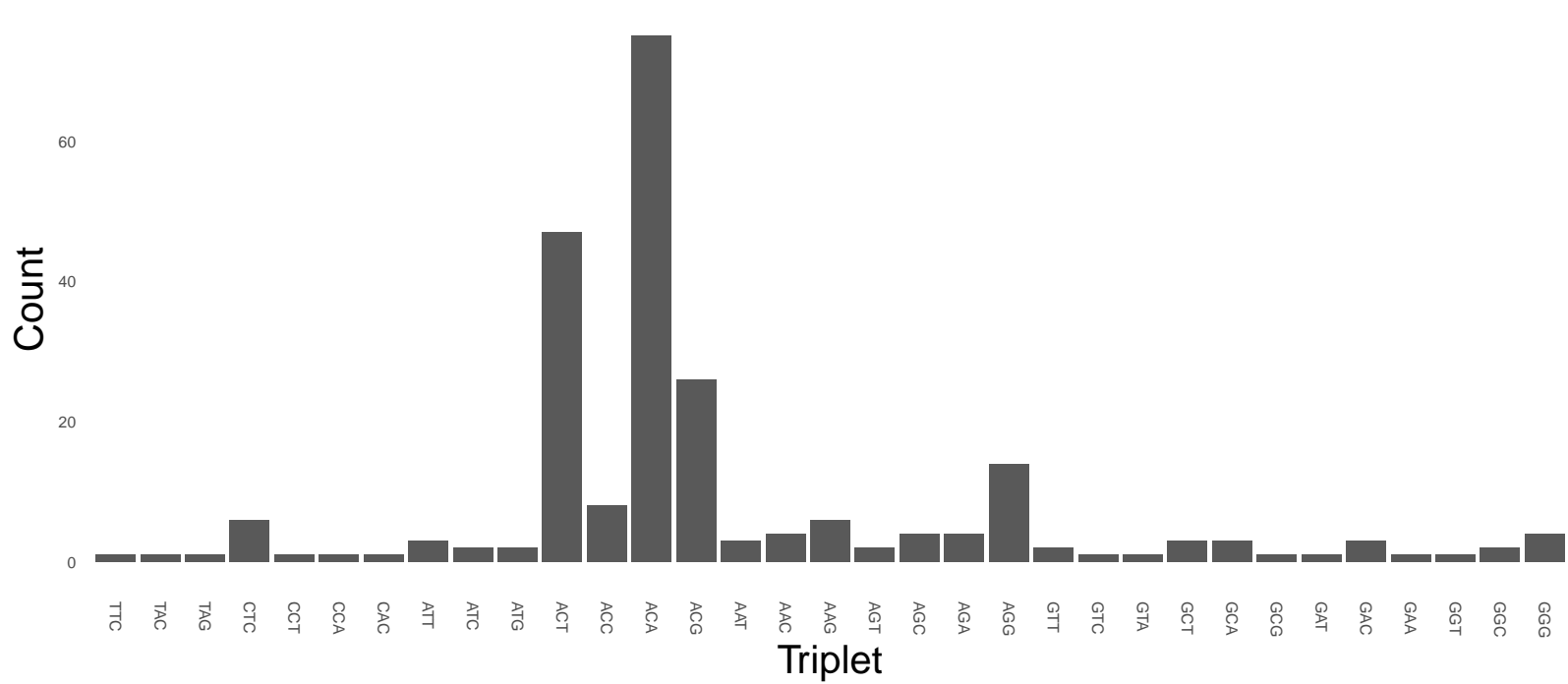
Gene IGHV5-51*01_C45G



IGHV3–30*04_T158G– Final 3 nucleotides as a triplet

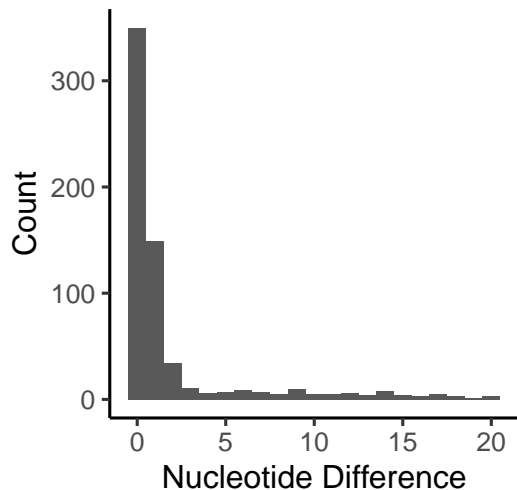


IGHV5–51*01_C45G– Final 3 nucleotides as a triplet



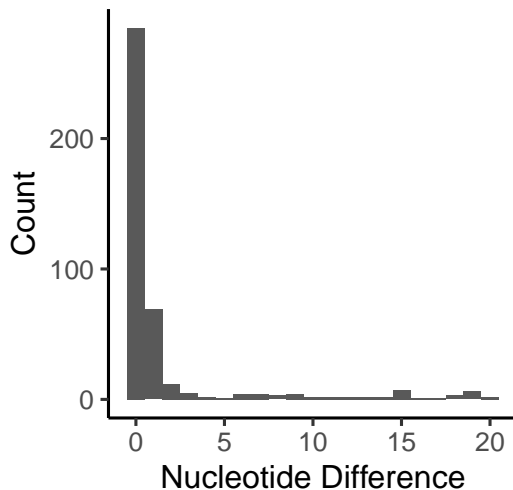
IGHV1-2*02

656 sequences assigned
350 (53.4%) exact matches, in which:
347 unique CDR3
6 unique J



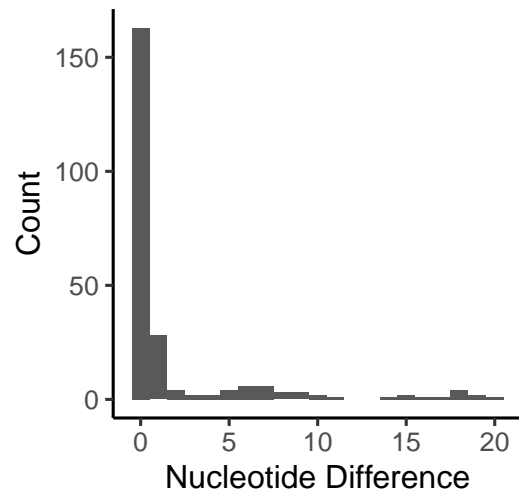
IGHV1-18*01

435 sequences assigned
285 (65.5%) exact matches, in which:
281 unique CDR3
6 unique J



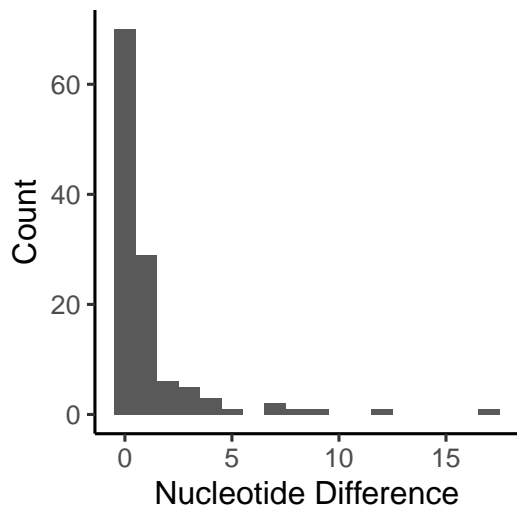
IGHV1-46*01

240 sequences assigned
163 (67.9%) exact matches, in which:
163 unique CDR3
6 unique J



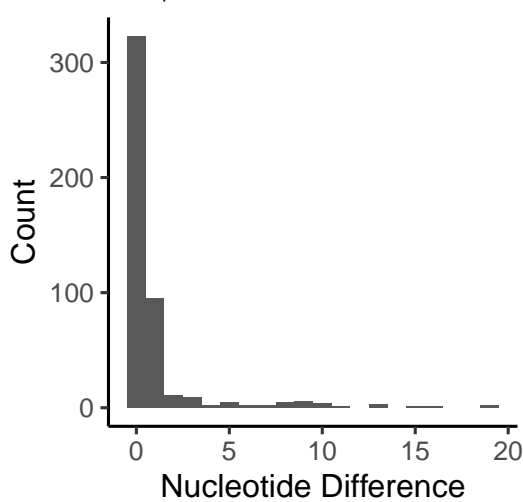
IGHV1-2*04

121 sequences assigned
70 (57.9%) exact matches, in which:
69 unique CDR3
5 unique J



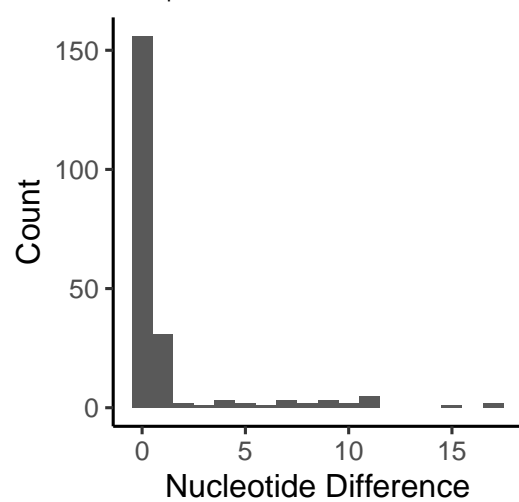
IGHV1-18*04

482 sequences assigned
323 (67%) exact matches, in which:
322 unique CDR3
6 unique J



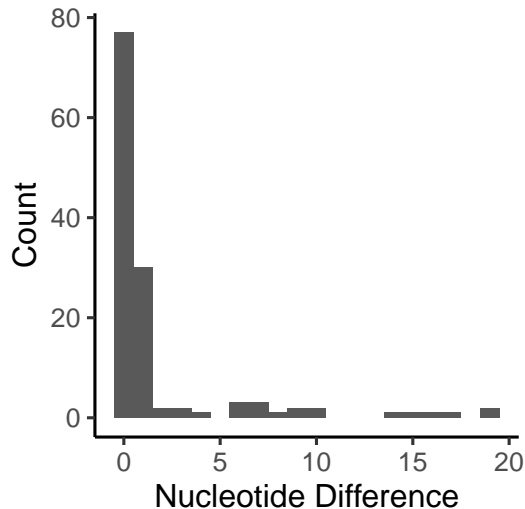
IGHV1-46*03

220 sequences assigned
156 (70.9%) exact matches, in which:
154 unique CDR3
6 unique J



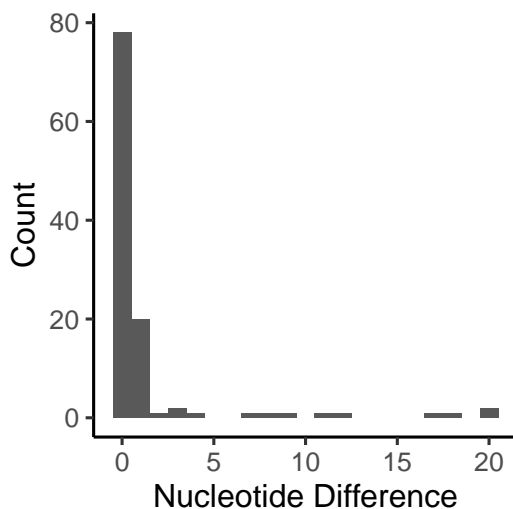
IGHV1-3*01

142 sequences assigned
77 (54.2%) exact matches, in which:
77 unique CDR3
5 unique J



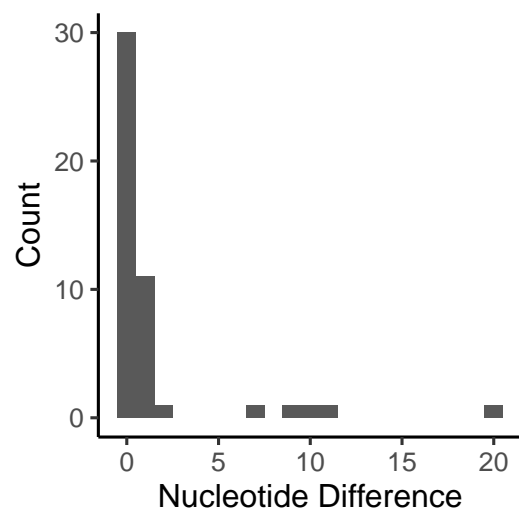
IGHV1-24*01

116 sequences assigned
78 (67.2%) exact matches, in which:
78 unique CDR3
5 unique J



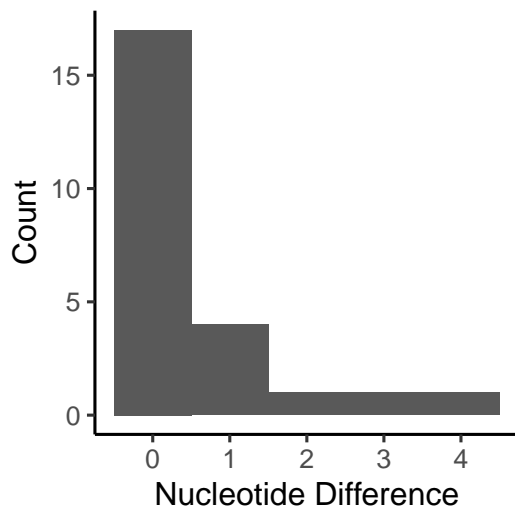
IGHV1-58*01

47 sequences assigned
30 (63.8%) exact matches, in which:
30 unique CDR3
4 unique J



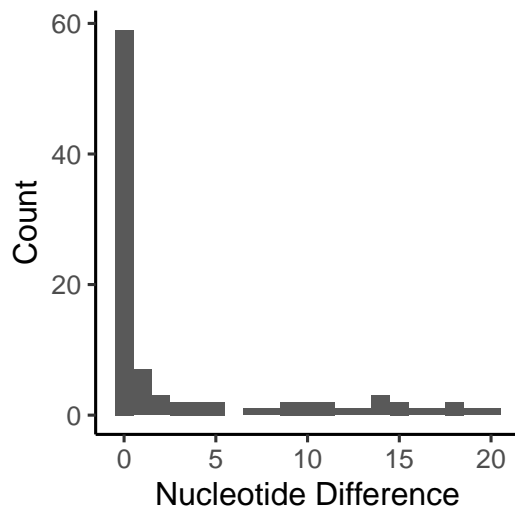
IGHV1-69-2*01

25 sequences assigned
17 (68%) exact matches, in which:
17 unique CDR3
4 unique J



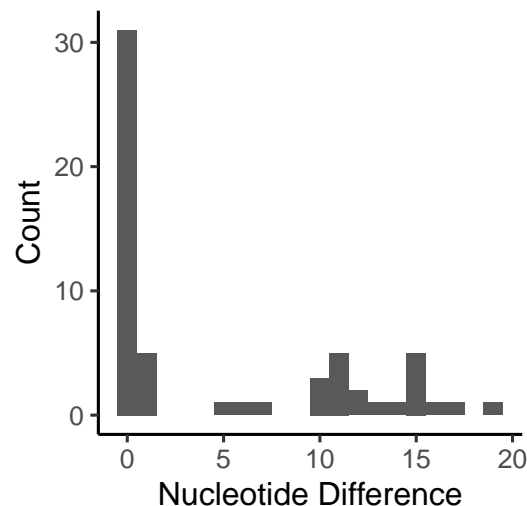
IGHV2-5*02

101 sequences assigned
59 (58.4%) exact matches, in which:
58 unique CDR3
5 unique J



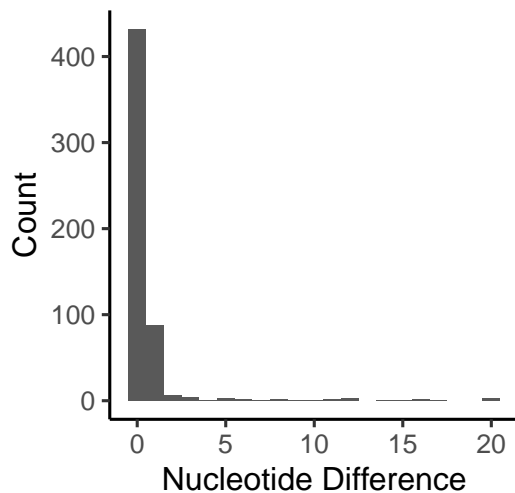
IGHV3-7*01

62 sequences assigned
31 (50%) exact matches, in which:
31 unique CDR3
5 unique J



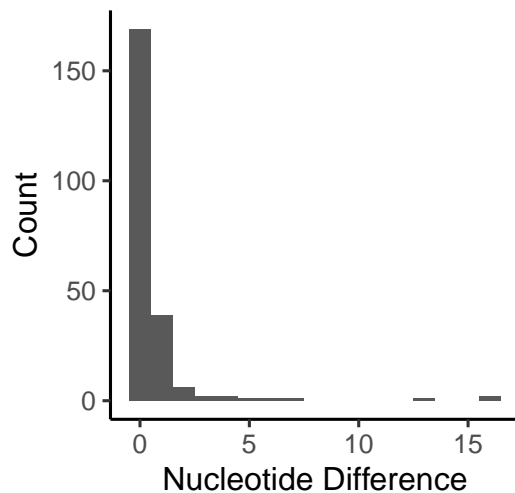
IGHV1-69*06

562 sequences assigned
432 (76.9%) exact matches, in which:
420 unique CDR3
6 unique J



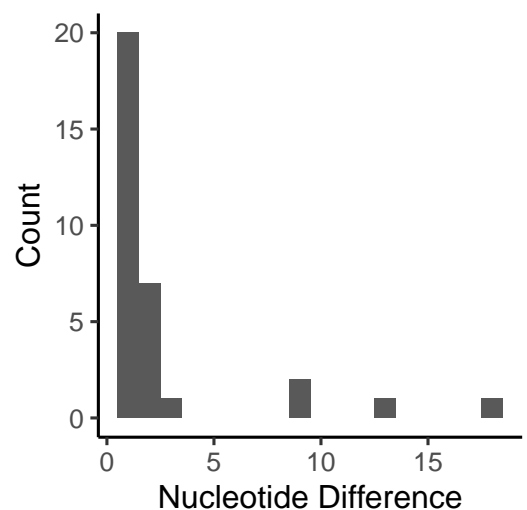
IGHV2-26*01

226 sequences assigned
169 (74.8%) exact matches, in which:
169 unique CDR3
6 unique J



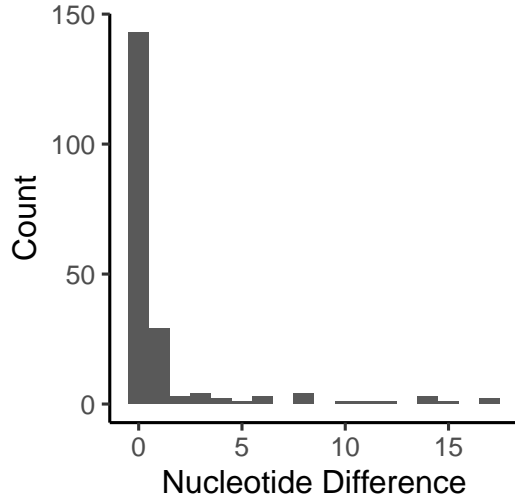
IGHV3-7*04

33 sequences assigned
No exact matches.



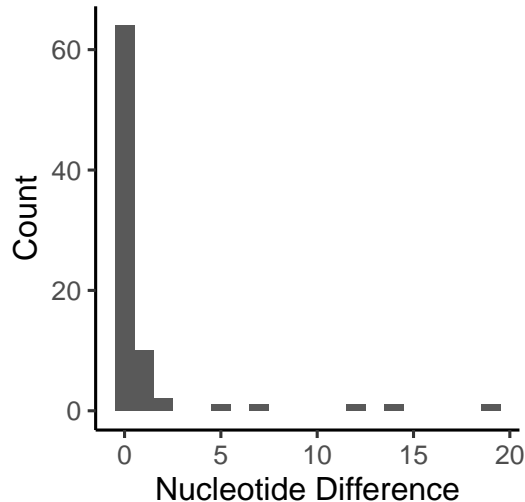
IGHV2-5*01

200 sequences assigned
143 (71.5%) exact matches, in which:
143 unique CDR3
6 unique J



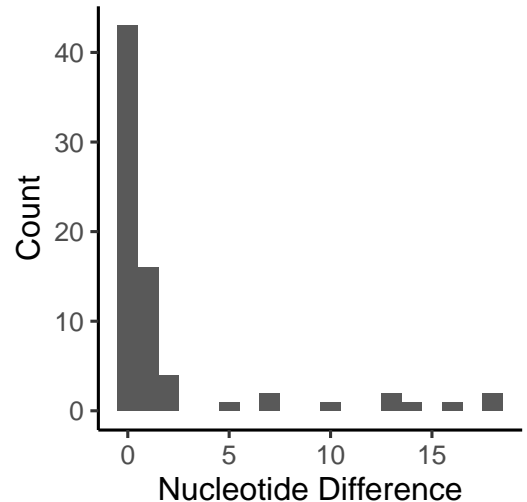
IGHV2-70*01

81 sequences assigned
64 (79%) exact matches, in which:
64 unique CDR3
5 unique J



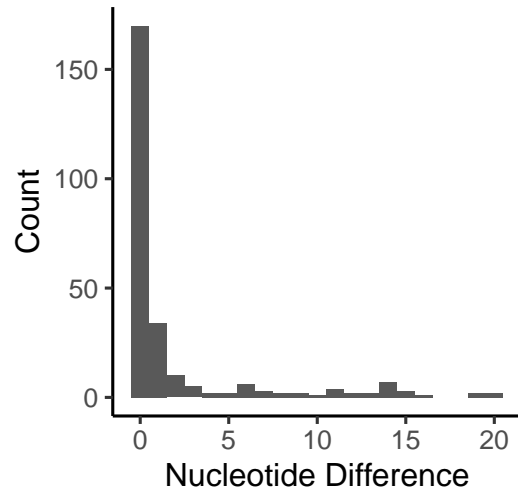
IGHV3-7*05

75 sequences assigned
43 (57.3%) exact matches, in which:
43 unique CDR3
5 unique J



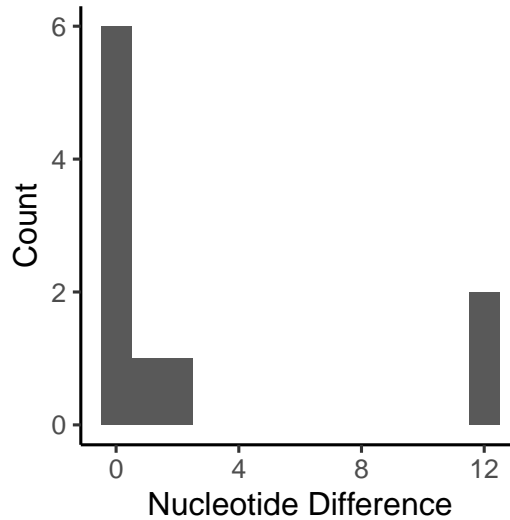
IGHV3-11*05

272 sequences assigned
170 (62.5%) exact matches, in which:
169 unique CDR3
6 unique J



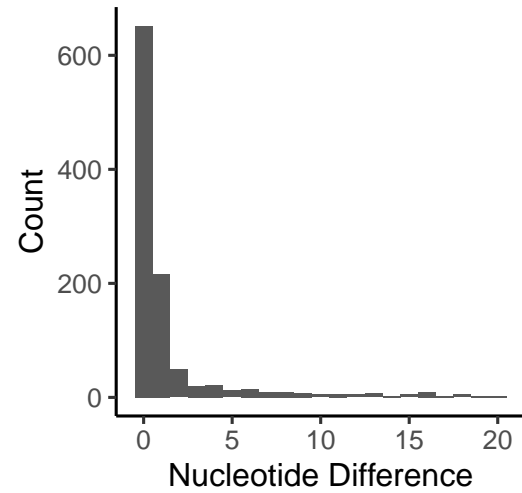
IGHV3-13*05

10 sequences assigned
6 (60%) exact matches, in which:
6 unique CDR3
3 unique J



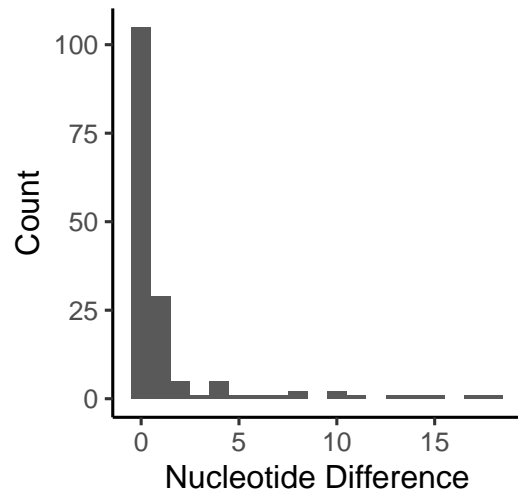
IGHV3-21*01

1087 sequences assigned
652 (60%) exact matches, in which:
647 unique CDR3
6 unique J



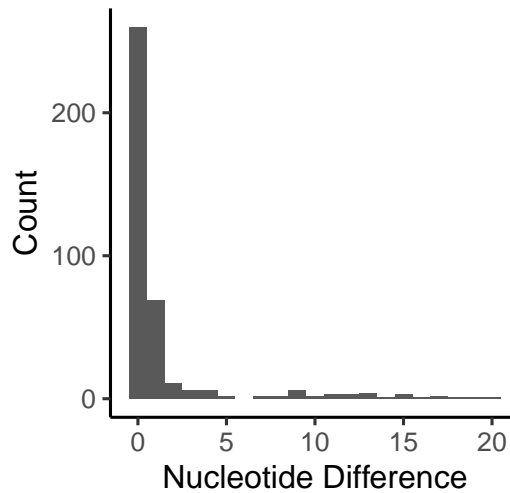
IGHV3-11*06

160 sequences assigned
105 (65.6%) exact matches, in which:
105 unique CDR3
5 unique J



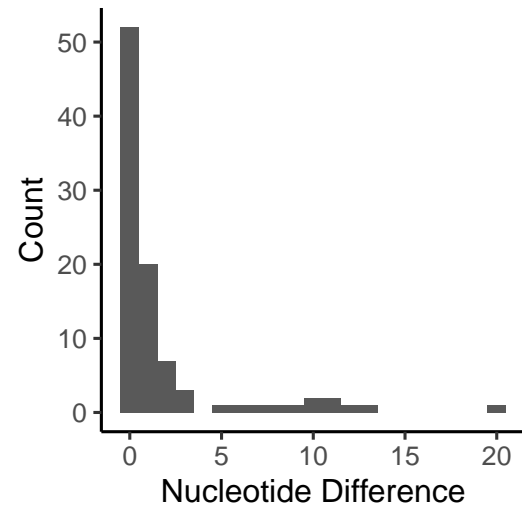
IGHV3-15*01

395 sequences assigned
260 (65.8%) exact matches, in which:
260 unique CDR3
6 unique J



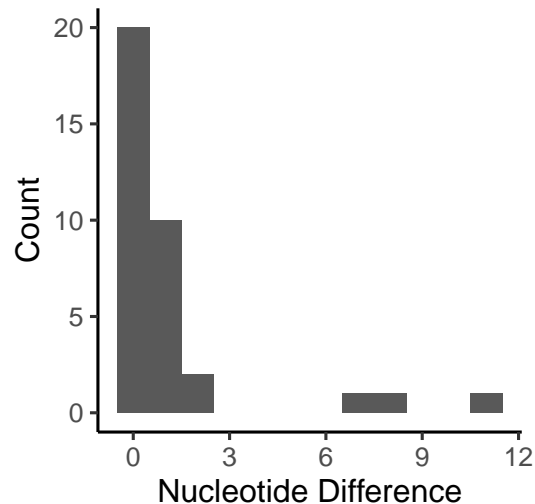
IGHV3-30*04_T158G

101 sequences assigned
52 (51.5%) exact matches, in which:
52 unique CDR3
6 unique J



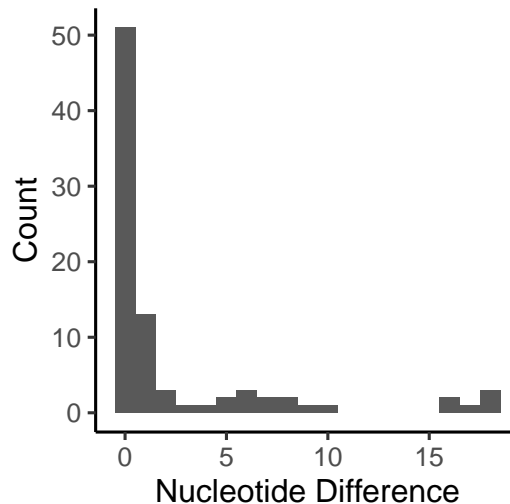
IGHV3-13*04

35 sequences assigned
20 (57.1%) exact matches, in which:
20 unique CDR3
4 unique J



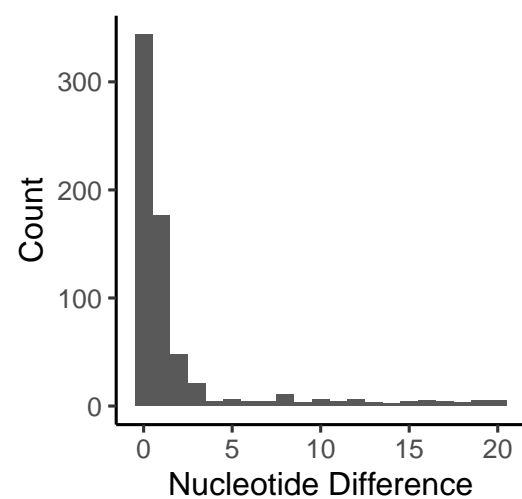
IGHV3-20*04

86 sequences assigned
51 (59.3%) exact matches, in which:
51 unique CDR3
4 unique J



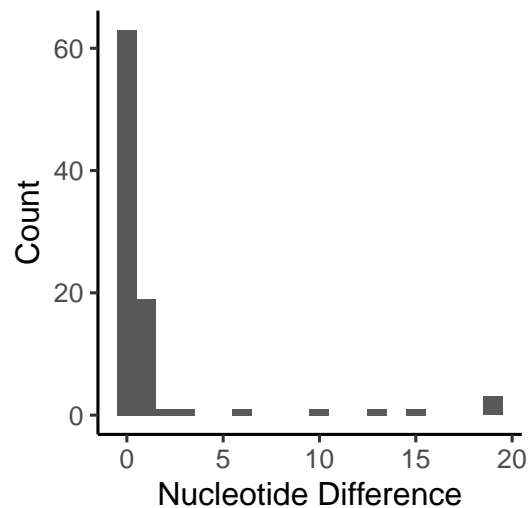
IGHV3-33*01

684 sequences assigned
344 (50.3%) exact matches, in which:
340 unique CDR3
6 unique J



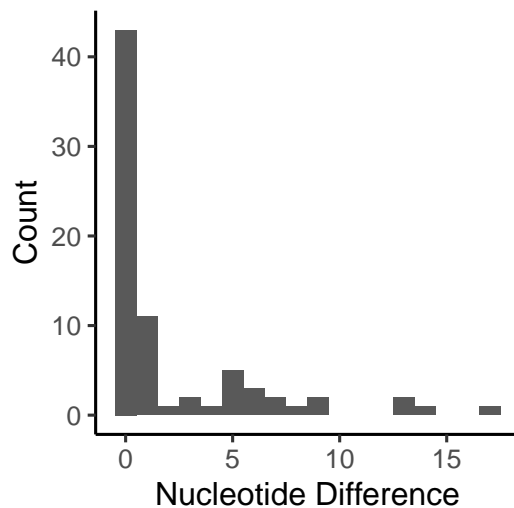
IGHV3-43*02

94 sequences assigned
63 (67%) exact matches, in which:
63 unique CDR3
6 unique J



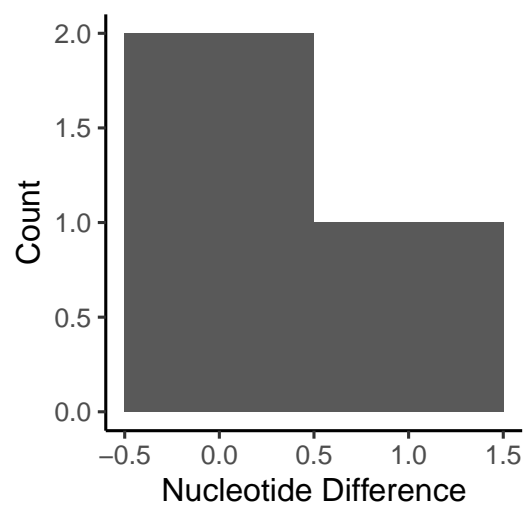
IGHV3-49*03

76 sequences assigned
43 (56.6%) exact matches, in which:
43 unique CDR3
4 unique J



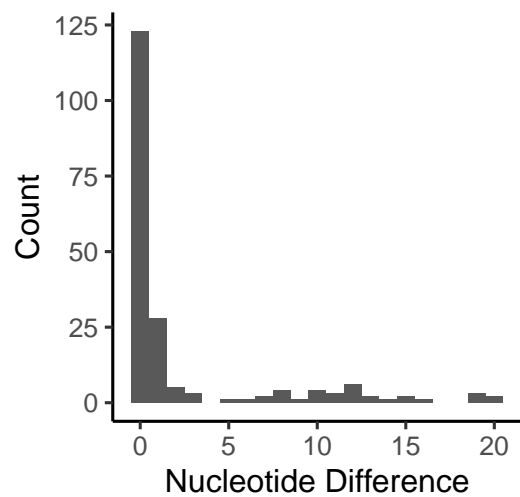
IGHV3-64*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



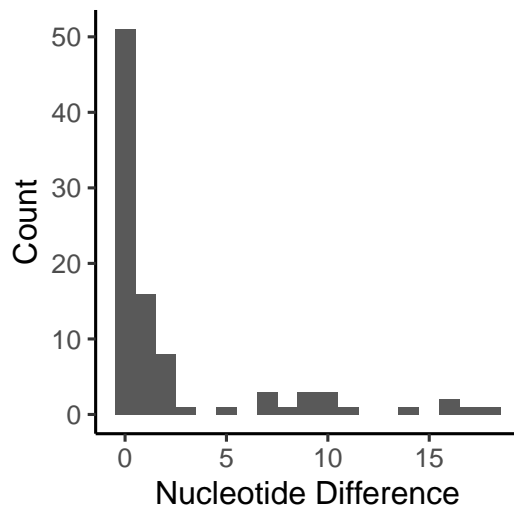
IGHV3-48*01

199 sequences assigned
123 (61.8%) exact matches, in which:
122 unique CDR3
6 unique J



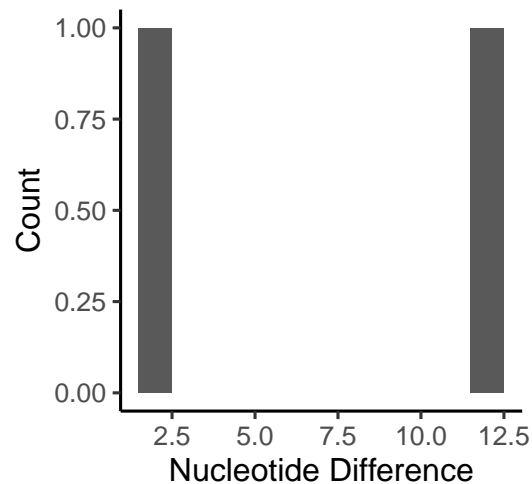
IGHV3-49*04

100 sequences assigned
51 (51%) exact matches, in which:
51 unique CDR3
4 unique J



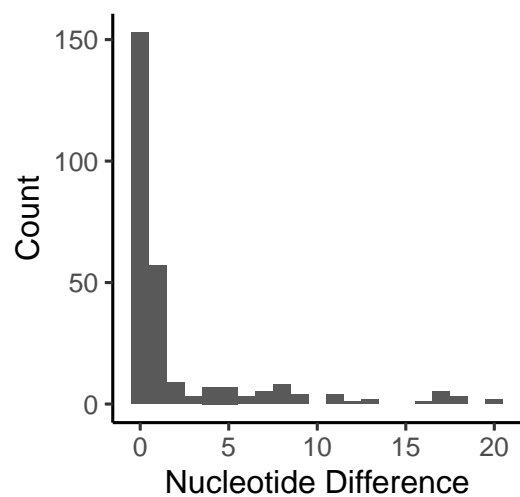
IGHV3-66*03

2 sequences assigned
No exact matches.



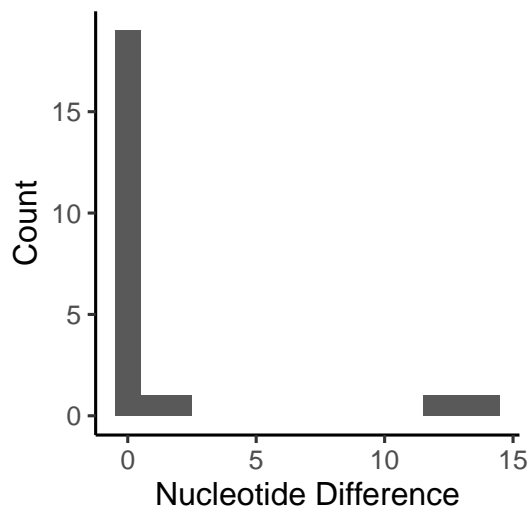
IGHV3-48*03

287 sequences assigned
153 (53.3%) exact matches, in which:
152 unique CDR3
6 unique J



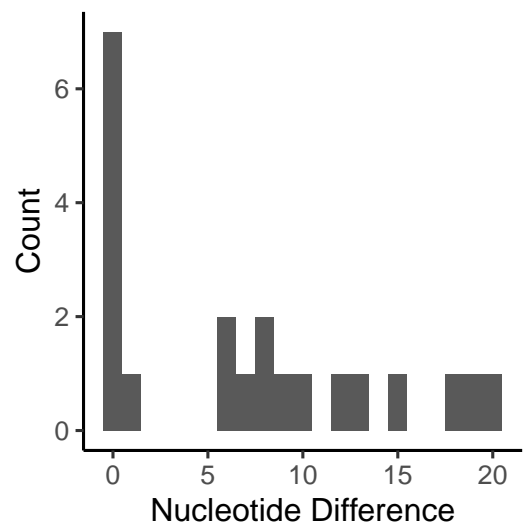
IGHV3-53*04

25 sequences assigned
19 (76%) exact matches, in which:
19 unique CDR3
5 unique J



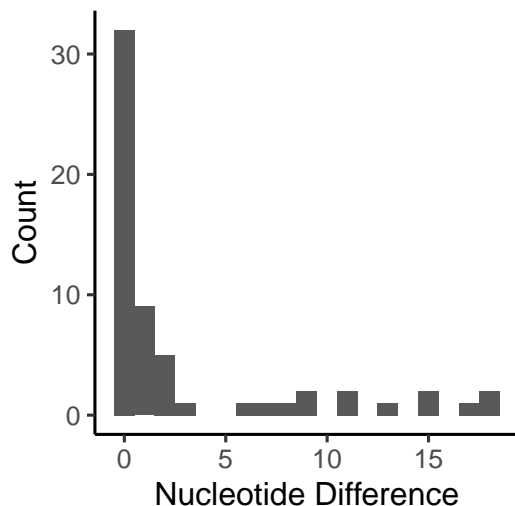
IGHV3-72*01

23 sequences assigned
7 (30.4%) exact matches, in which:
7 unique CDR3
3 unique J



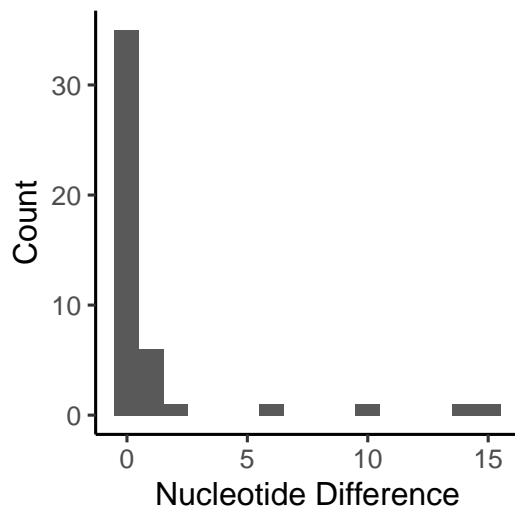
IGHV3-73*02

62 sequences assigned
32 (51.6%) exact matches, in which:
32 unique CDR3
4 unique J



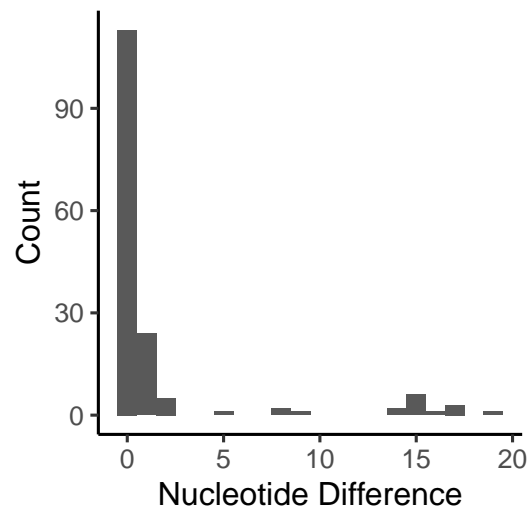
IGHV3-64D*06

50 sequences assigned
35 (70%) exact matches, in which:
35 unique CDR3
5 unique J



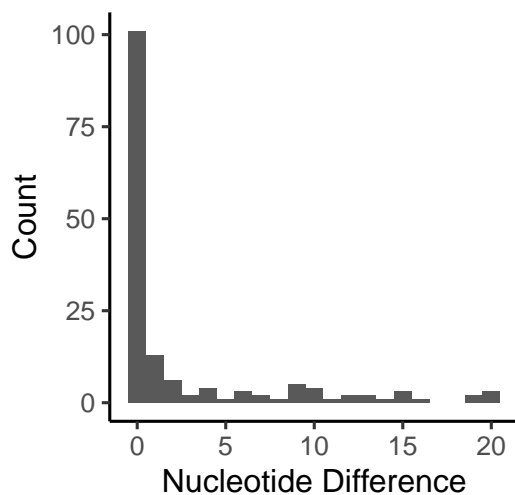
IGHV4-4*07

163 sequences assigned
113 (69.3%) exact matches, in which:
113 unique CDR3
5 unique J



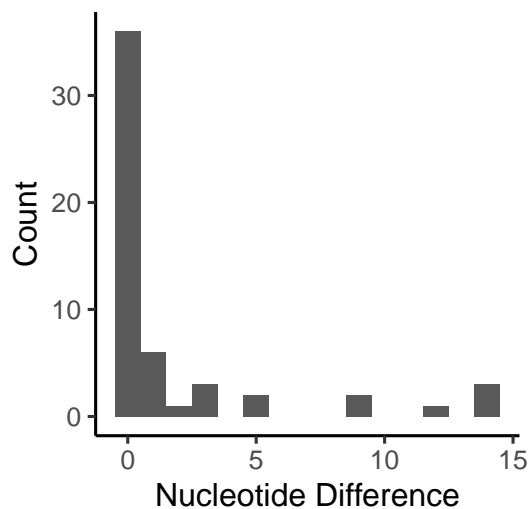
IGHV3-74*01

163 sequences assigned
101 (62%) exact matches, in which:
101 unique CDR3
6 unique J



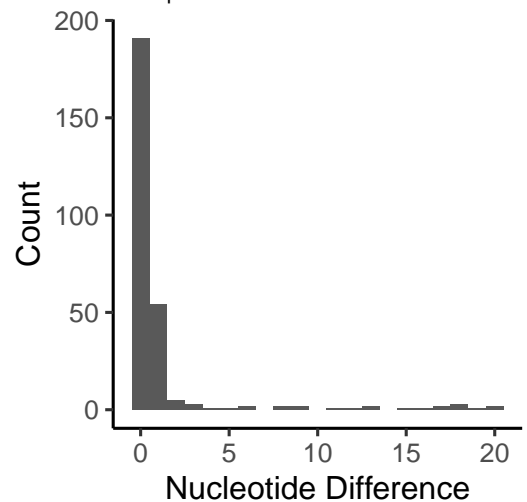
IGHV3-64D*08

56 sequences assigned
36 (64.3%) exact matches, in which:
36 unique CDR3
5 unique J



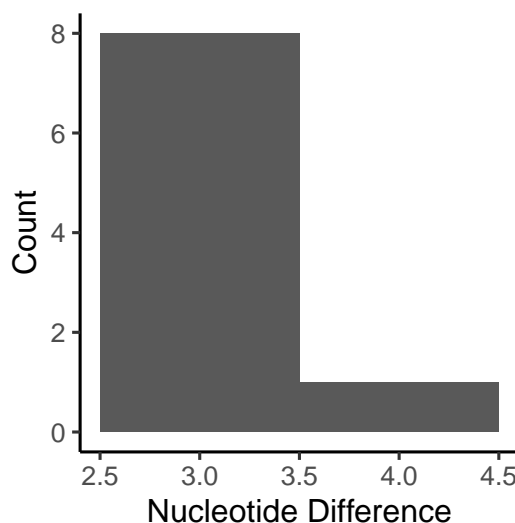
IGHV4-31*03

281 sequences assigned
191 (68%) exact matches, in which:
191 unique CDR3
6 unique J



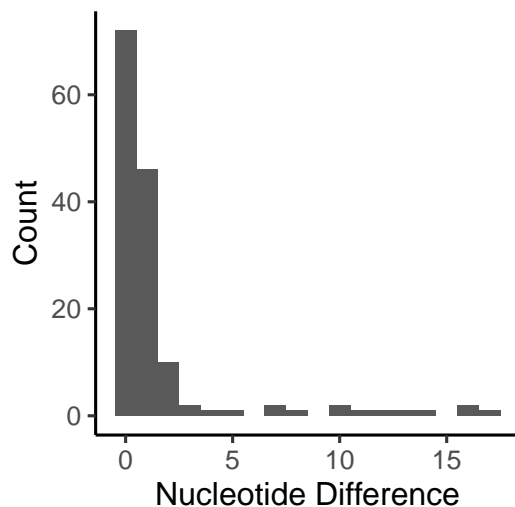
IGHV3-43D*04

9 sequences assigned
No exact matches.



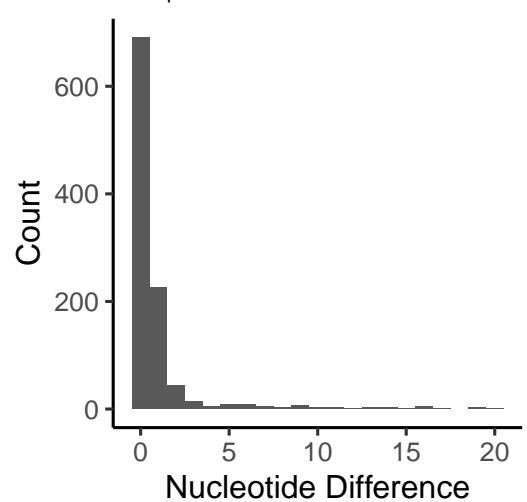
IGHV4-4*02

152 sequences assigned
72 (47.4%) exact matches, in which:
72 unique CDR3
5 unique J



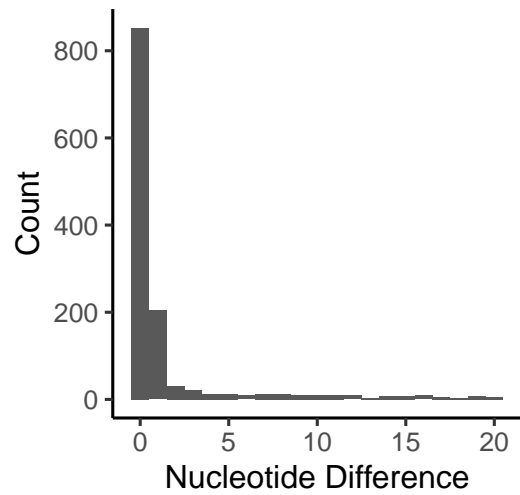
IGHV4-34*01

1053 sequences assigned
691 (65.6%) exact matches, in which:
685 unique CDR3
6 unique J



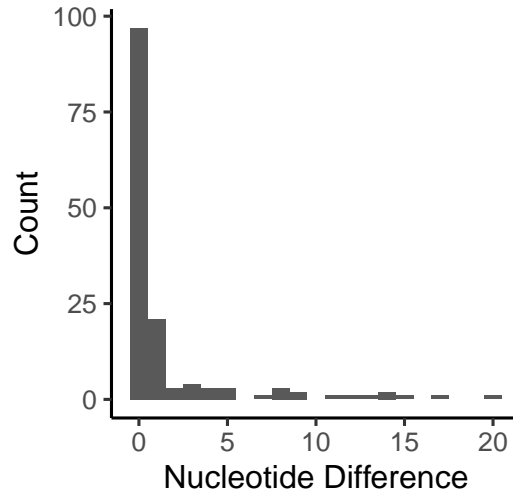
IGHV4–39*01

1290 sequences assigned
853 (66.1%) exact matches, in which:
846 unique CDR3
6 unique J



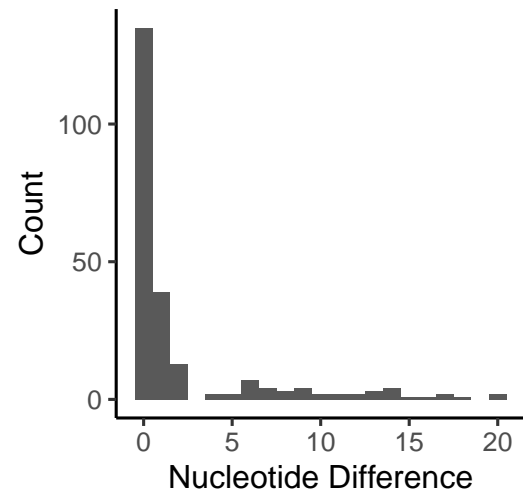
IGHV5–10–1*01

158 sequences assigned
97 (61.4%) exact matches, in which:
97 unique CDR3
6 unique J



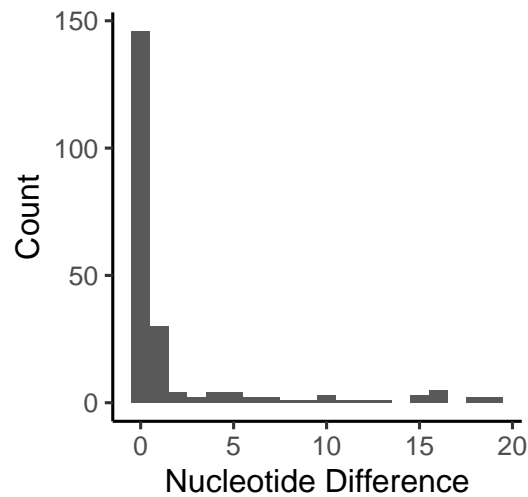
IGHV5–51*01_C45G

235 sequences assigned
135 (57.4%) exact matches, in which:
135 unique CDR3
6 unique J



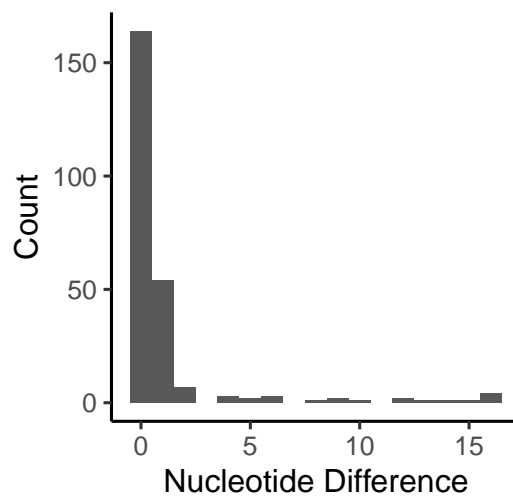
IGHV4–59*01

225 sequences assigned
146 (64.9%) exact matches, in which:
146 unique CDR3
5 unique J



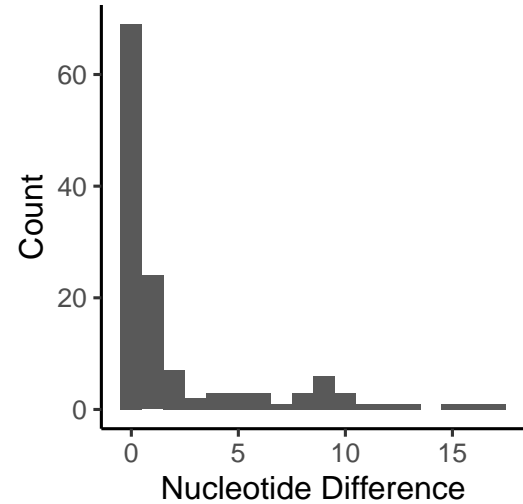
IGHV5–10–1*03

256 sequences assigned
164 (64.1%) exact matches, in which:
164 unique CDR3
6 unique J



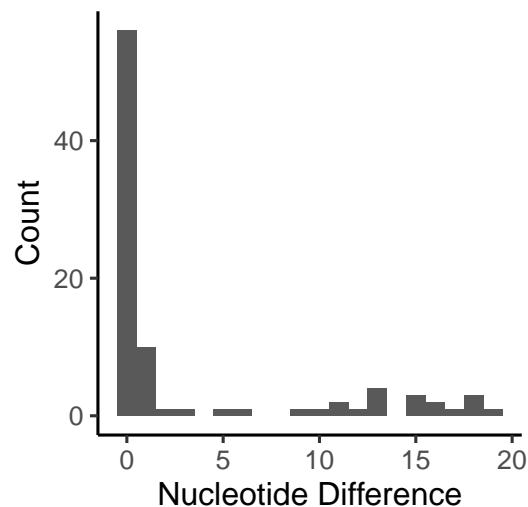
IGHV6–1*01

138 sequences assigned
69 (50%) exact matches, in which:
69 unique CDR3
4 unique J



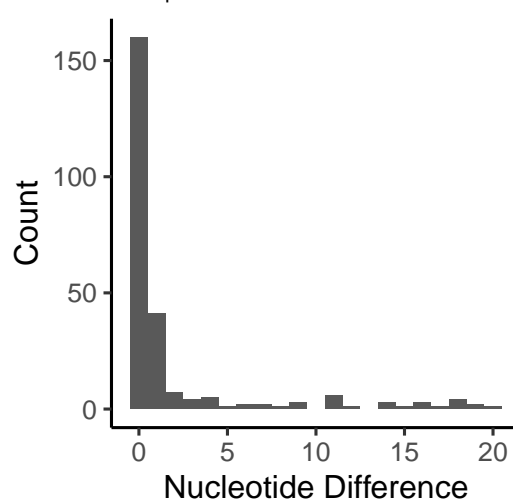
IGHV4–61*01

92 sequences assigned
56 (60.9%) exact matches, in which:
56 unique CDR3
5 unique J



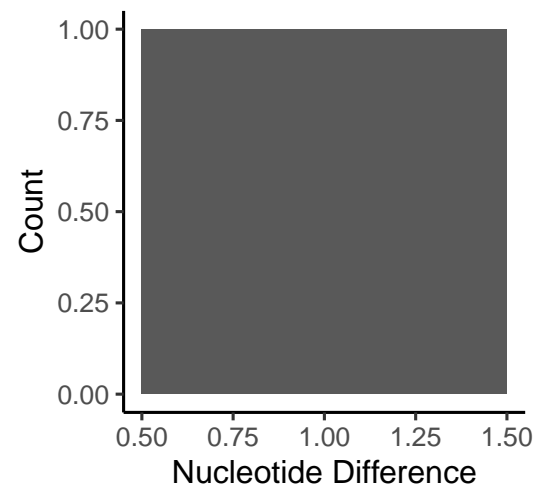
IGHV5–51*01

253 sequences assigned
160 (63.2%) exact matches, in which:
160 unique CDR3
6 unique J



IGHV7–4–1*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.

Warning – no inferred sequences found.

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