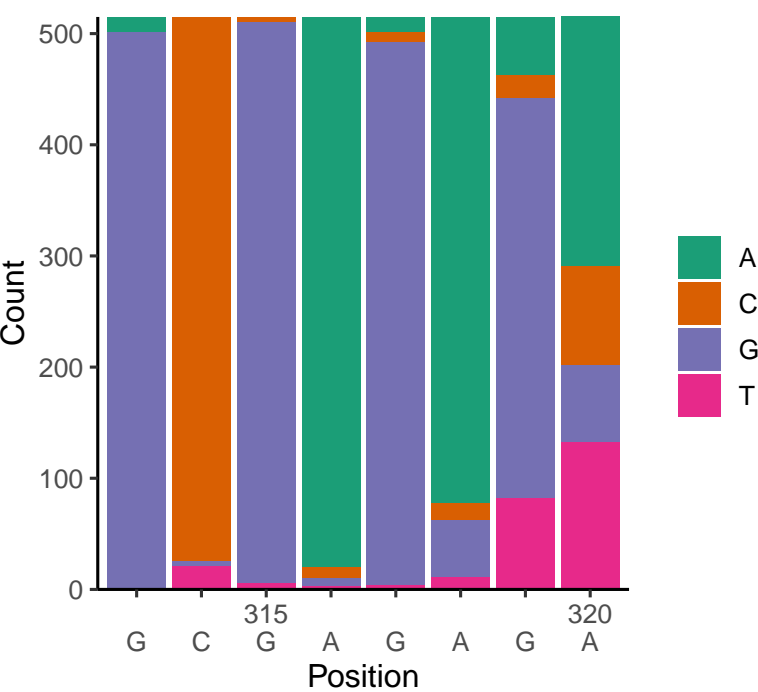
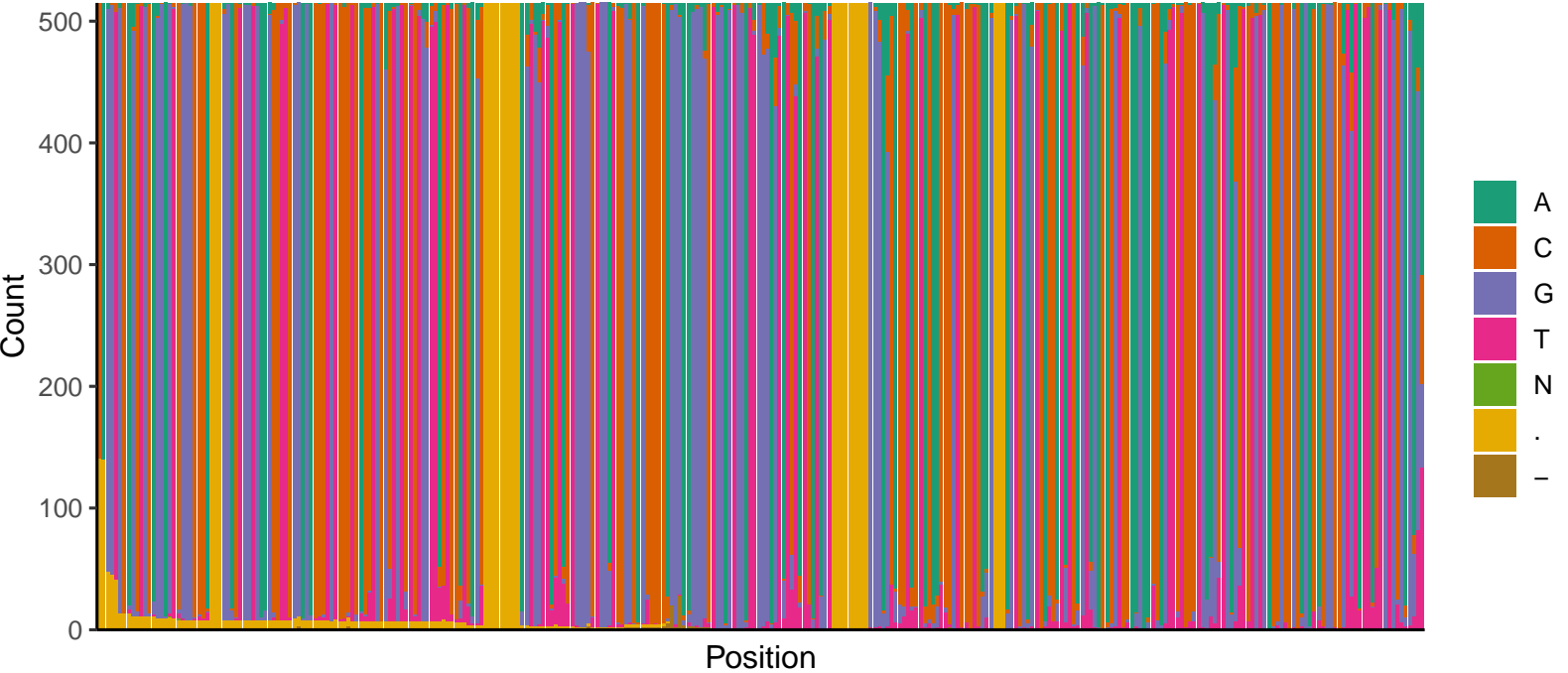


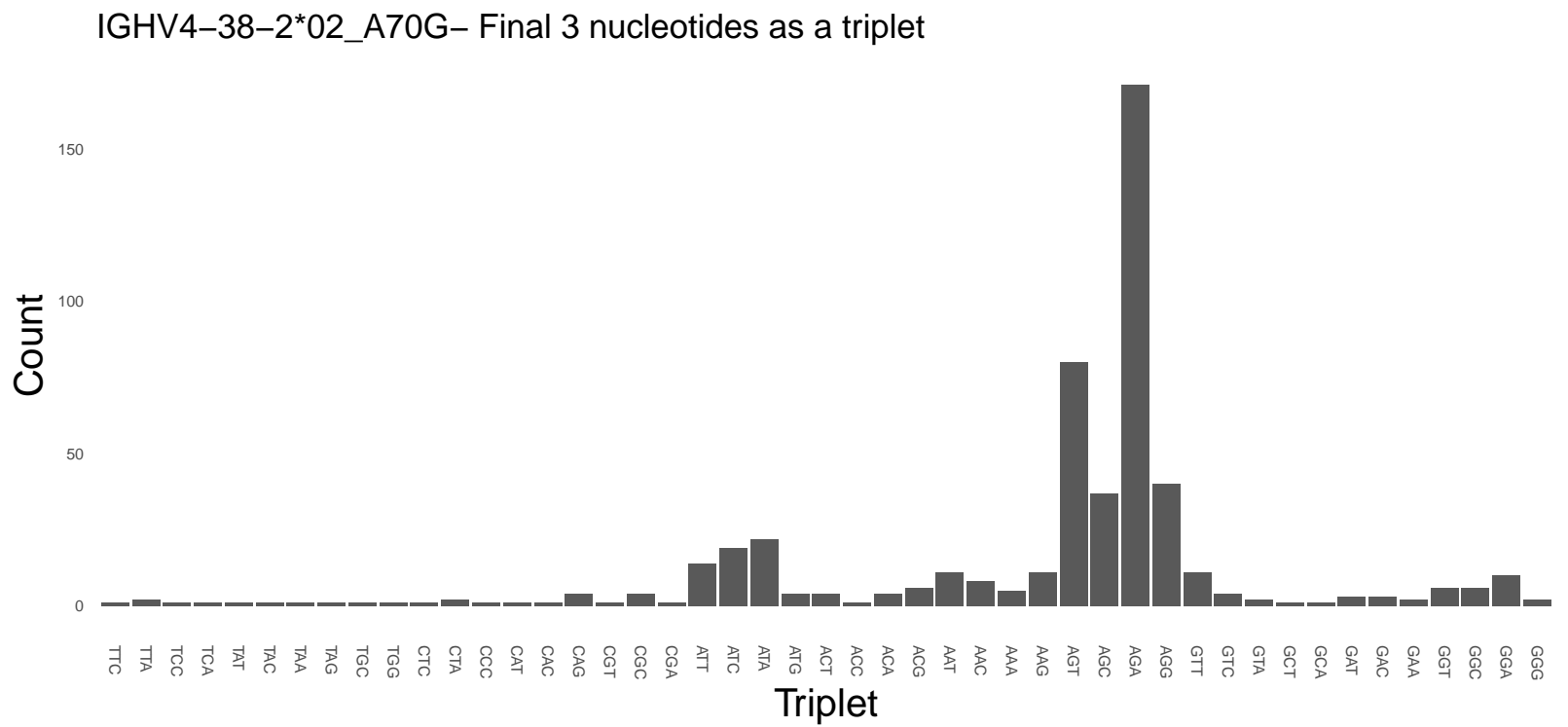
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

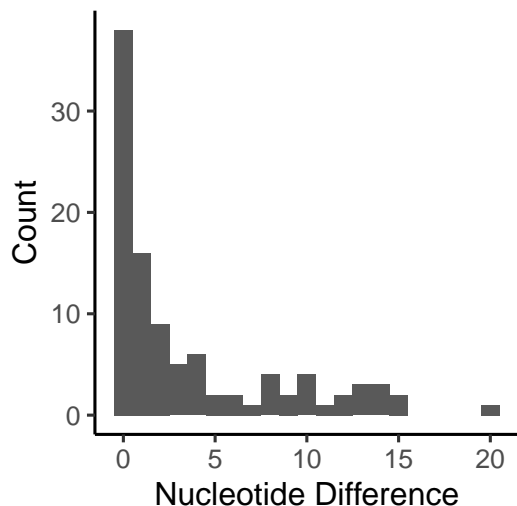


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



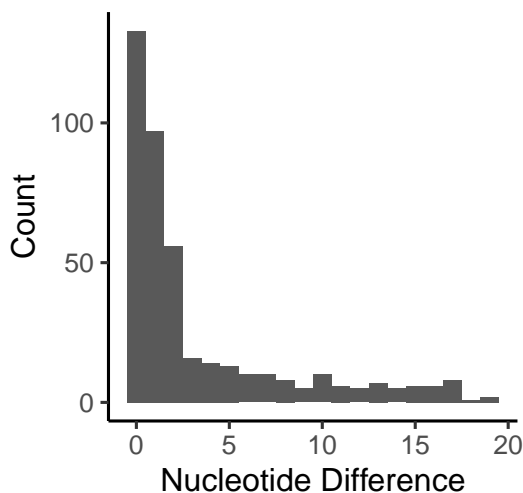
IGHV1-2*04

105 sequences assigned
38 (36.2%) exact matches, in which:
34 unique CDR3
5 unique J



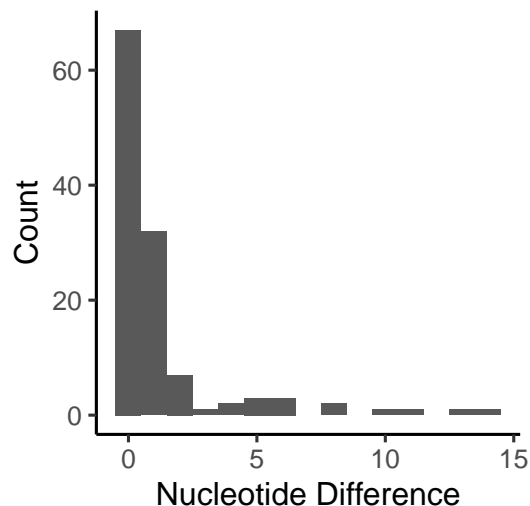
IGHV1-8*01

422 sequences assigned
133 (31.5%) exact matches, in which:
105 unique CDR3
4 unique J



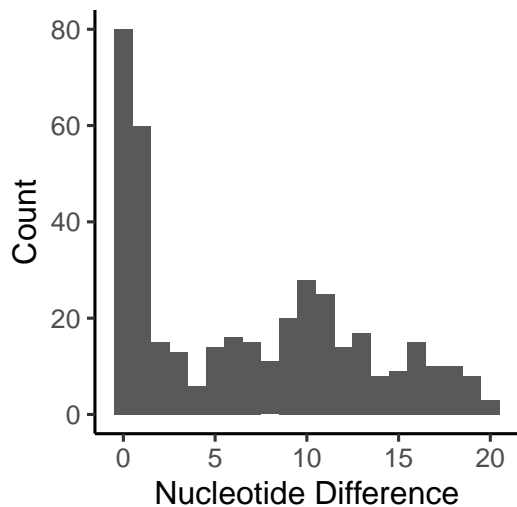
IGHV1-24*01

121 sequences assigned
67 (55.4%) exact matches, in which:
59 unique CDR3
5 unique J



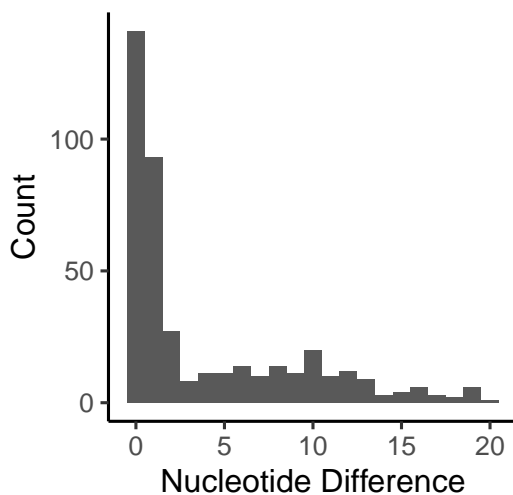
IGHV1-2*06

433 sequences assigned
80 (18.5%) exact matches, in which:
71 unique CDR3
5 unique J



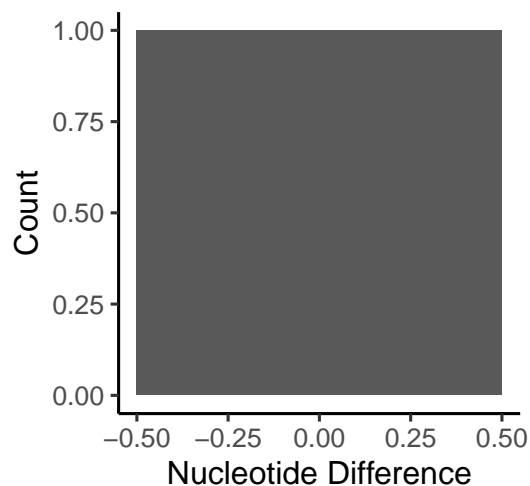
IGHV1-18*01

446 sequences assigned
141 (31.6%) exact matches, in which:
126 unique CDR3
4 unique J



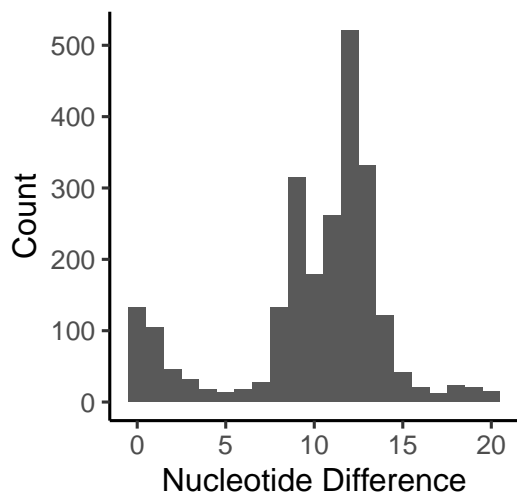
IGHV1-45*02

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



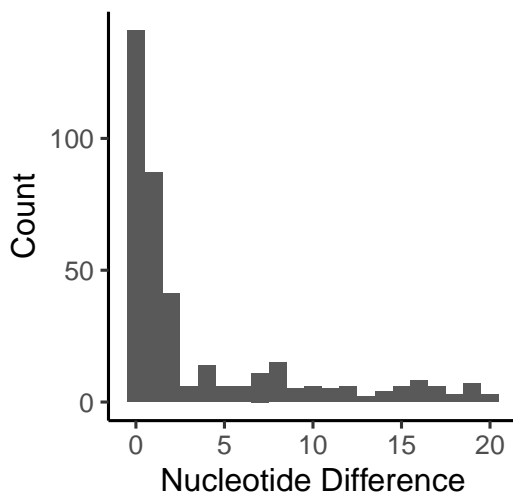
IGHV1-3*01

2449 sequences assigned
132 (5.4%) exact matches, in which:
125 unique CDR3
5 unique J



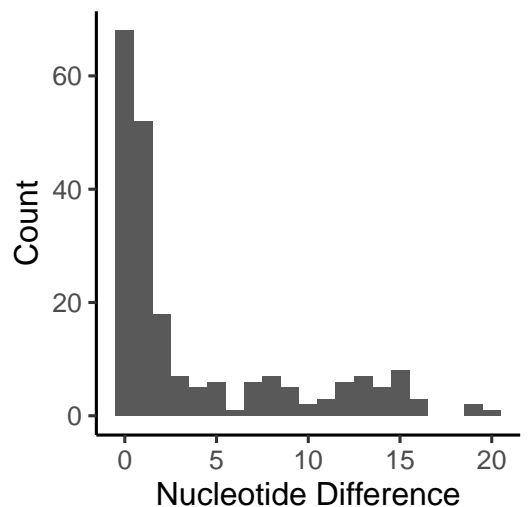
IGHV1-18*04

413 sequences assigned
141 (34.1%) exact matches, in which:
123 unique CDR3
6 unique J



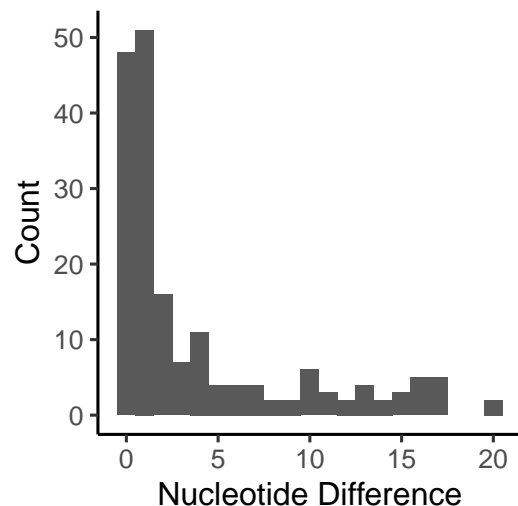
IGHV1-46*01

241 sequences assigned
68 (28.2%) exact matches, in which:
55 unique CDR3
4 unique J



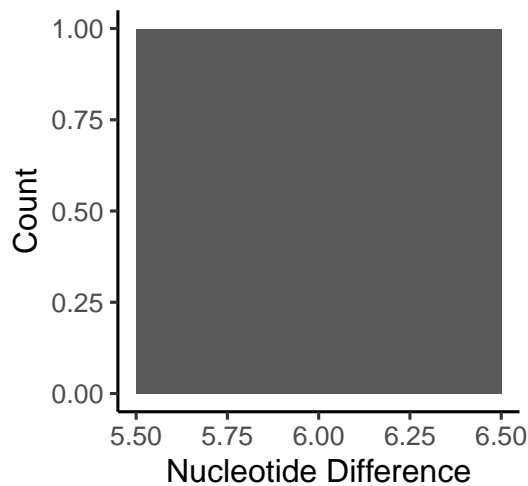
IGHV1-46*03

188 sequences assigned
48 (25.5%) exact matches, in which:
30 unique CDR3
5 unique J



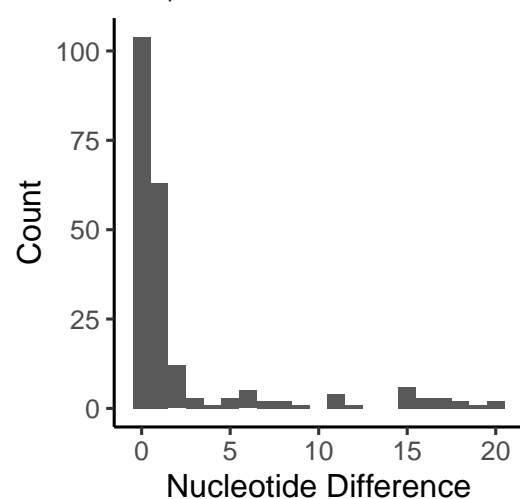
IGHV1-68*02

1 sequences assigned
No exact matches.



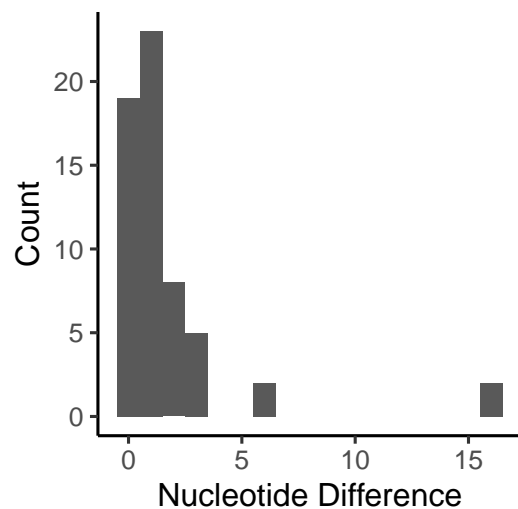
IGHV1-69*06

223 sequences assigned
104 (46.6%) exact matches, in which:
95 unique CDR3
5 unique J



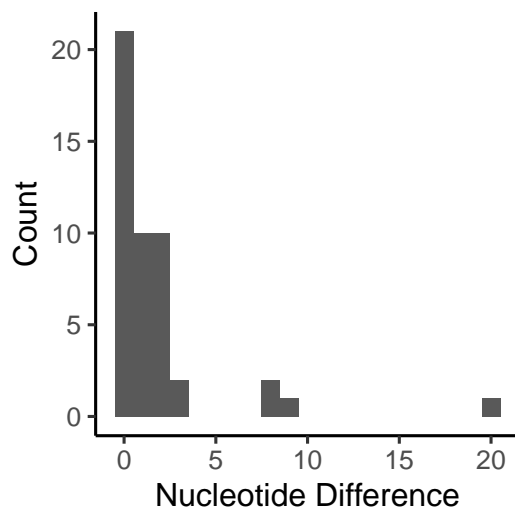
IGHV1-58*01

61 sequences assigned
19 (31.1%) exact matches, in which:
14 unique CDR3
3 unique J



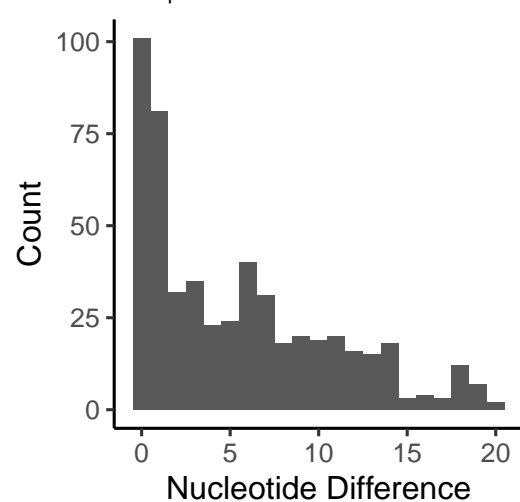
IGHV1-69-2*01

48 sequences assigned
21 (43.8%) exact matches, in which:
20 unique CDR3
4 unique J



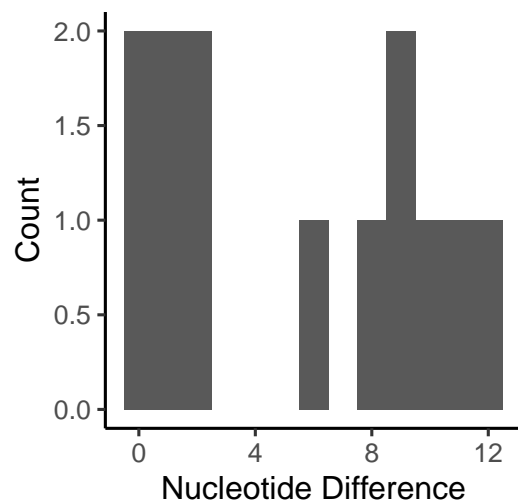
IGHV2-5*02

557 sequences assigned
101 (18.1%) exact matches, in which:
92 unique CDR3
6 unique J



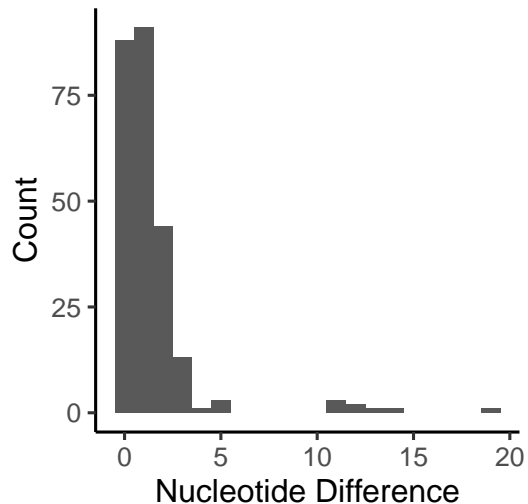
IGHV1-58*02

13 sequences assigned
2 (15.4%) exact matches, in which:
2 unique CDR3
2 unique J



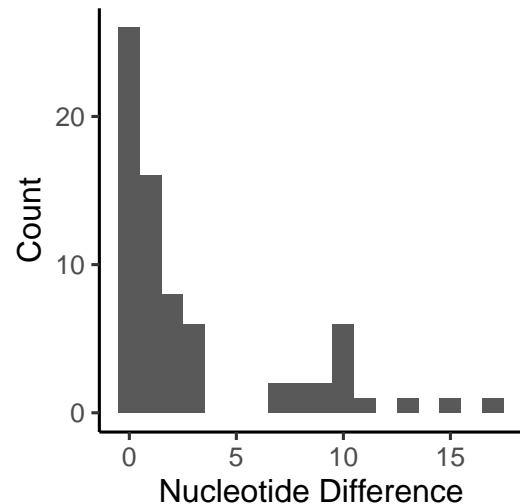
IGHV1-69*02

251 sequences assigned
88 (35.1%) exact matches, in which:
72 unique CDR3
6 unique J



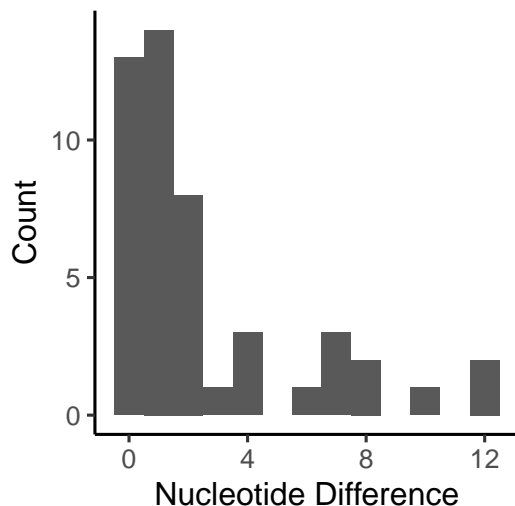
IGHV2-26*01

72 sequences assigned
26 (36.1%) exact matches, in which:
22 unique CDR3
4 unique J



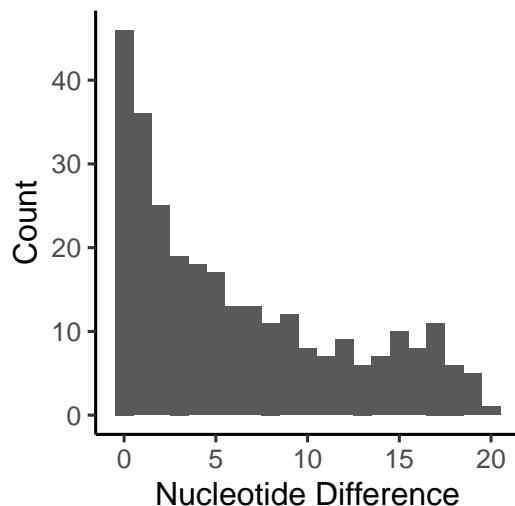
IGHV2-70*01

48 sequences assigned
13 (27.1%) exact matches, in which:
10 unique CDR3
4 unique J



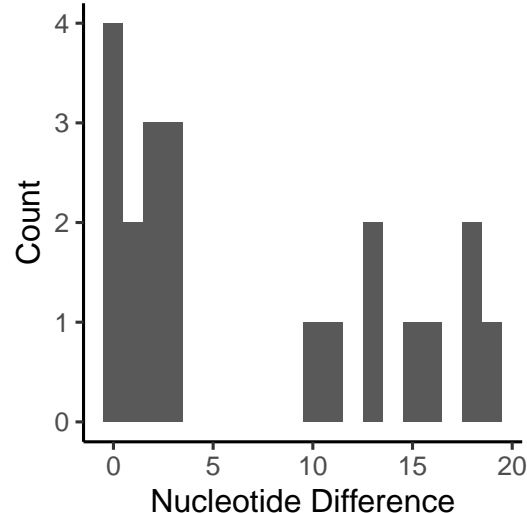
IGHV3-9*01

302 sequences assigned
46 (15.2%) exact matches, in which:
44 unique CDR3
5 unique J



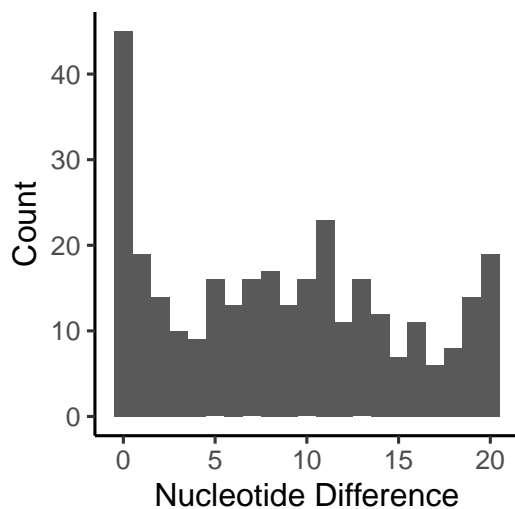
IGHV3-13*01

30 sequences assigned
4 (13.3%) exact matches, in which:
4 unique CDR3
3 unique J



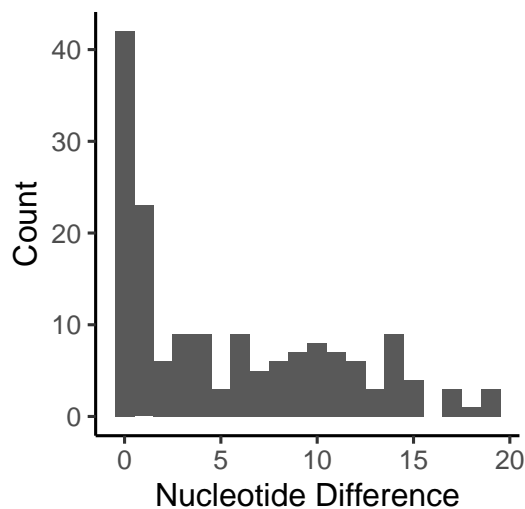
IGHV3-7*01

406 sequences assigned
45 (11.1%) exact matches, in which:
43 unique CDR3
4 unique J



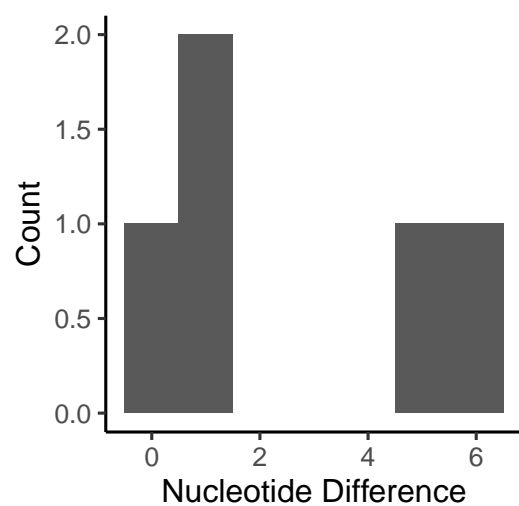
IGHV3-11*01

179 sequences assigned
42 (23.5%) exact matches, in which:
40 unique CDR3
5 unique J



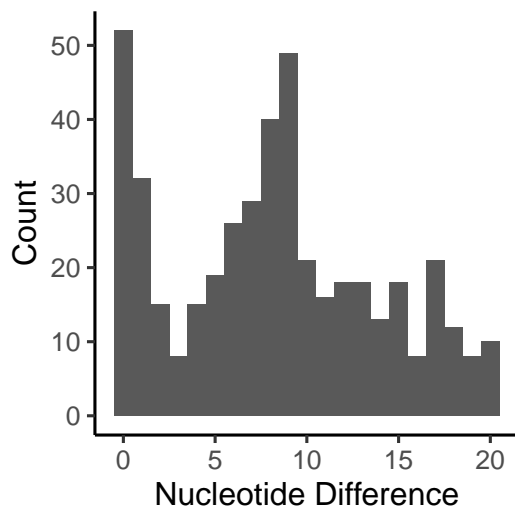
IGHV3-13*05

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



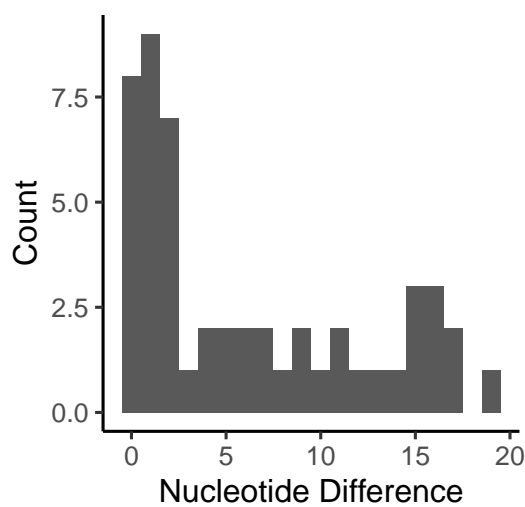
IGHV3-7*03

474 sequences assigned
52 (11%) exact matches, in which:
50 unique CDR3
5 unique J



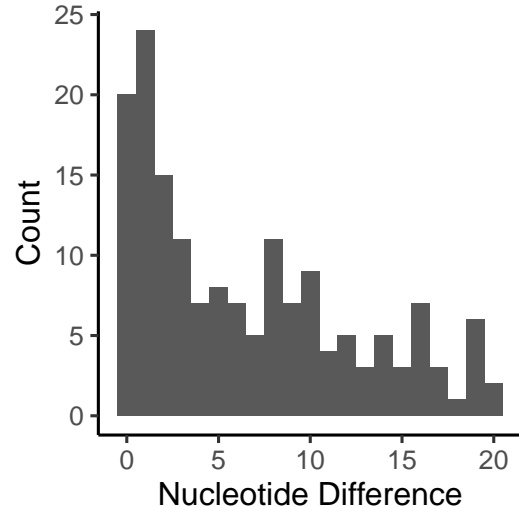
IGHV3-11*06

53 sequences assigned
8 (15.1%) exact matches, in which:
8 unique CDR3
3 unique J



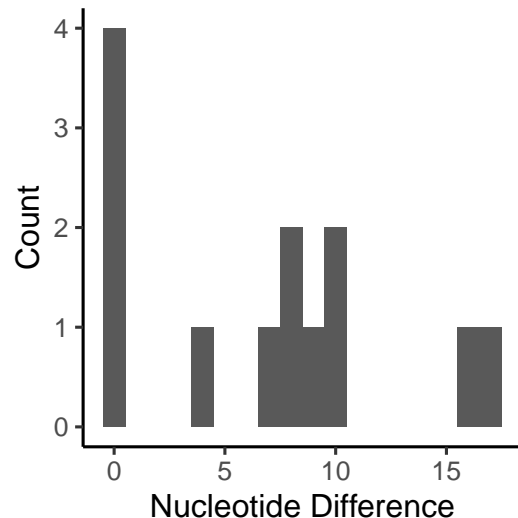
IGHV3-15*01

174 sequences assigned
20 (11.5%) exact matches, in which:
19 unique CDR3
5 unique J



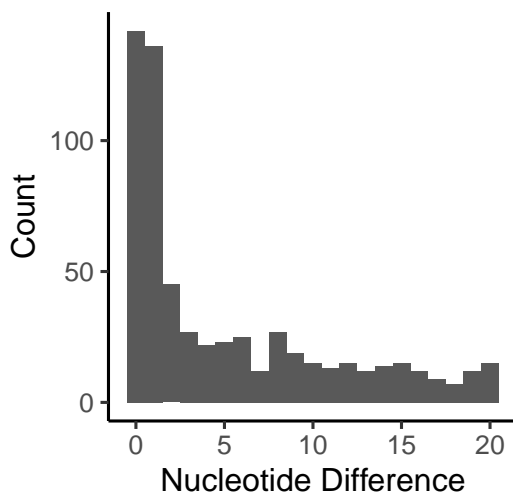
IGHV3-20*01

14 sequences assigned
4 (28.6%) exact matches, in which:
4 unique CDR3
3 unique J



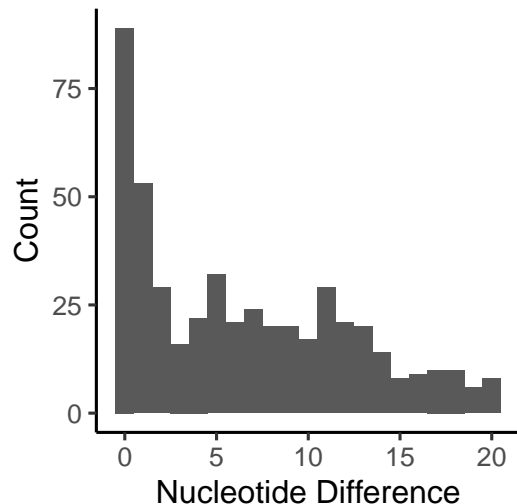
IGHV3-33*01

646 sequences assigned
142 (22%) exact matches, in which:
111 unique CDR3
5 unique J



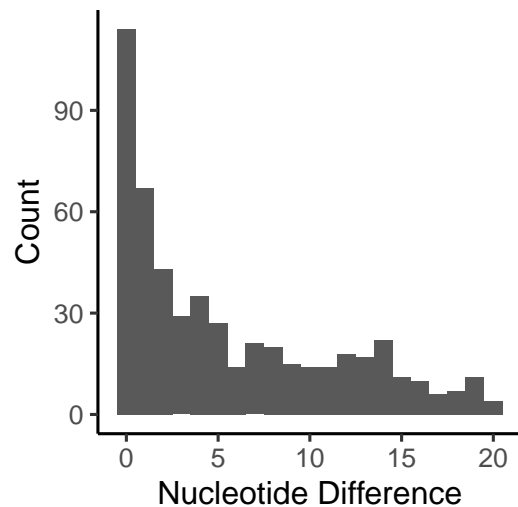
IGHV3-48*03

524 sequences assigned
89 (17%) exact matches, in which:
85 unique CDR3
6 unique J



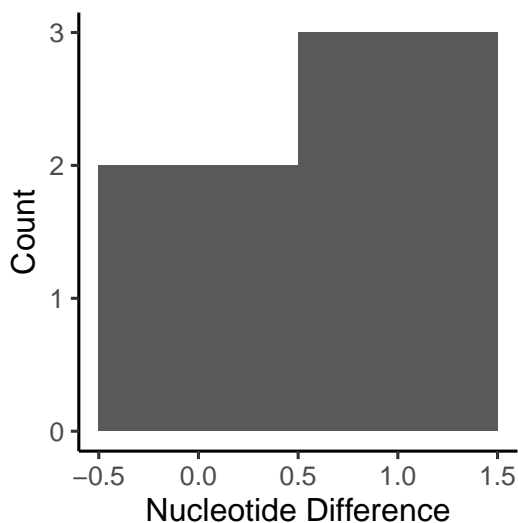
IGHV3-21*01

548 sequences assigned
114 (20.8%) exact matches, in which:
103 unique CDR3
6 unique J



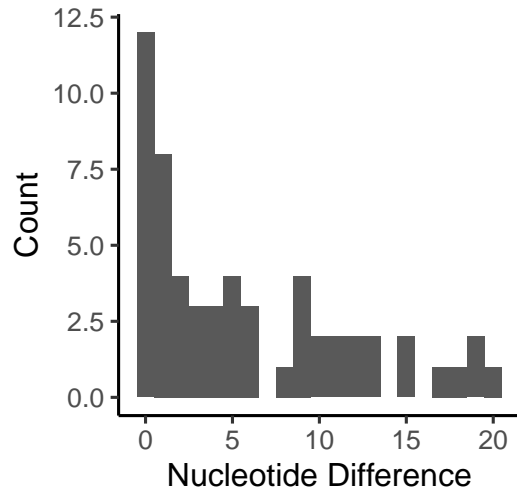
IGHV3-43*01

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



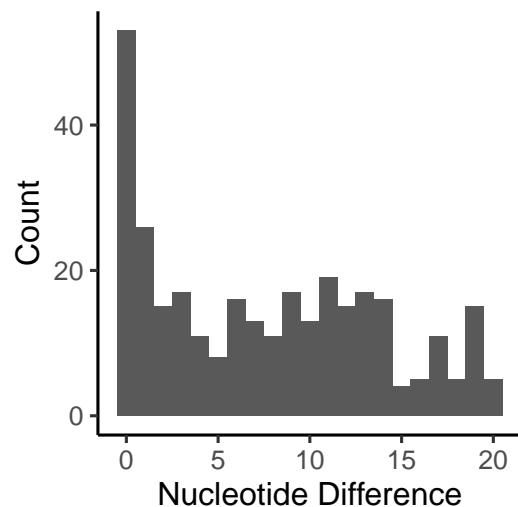
IGHV3-49*03

57 sequences assigned
12 (21.1%) exact matches, in which:
12 unique CDR3
4 unique J



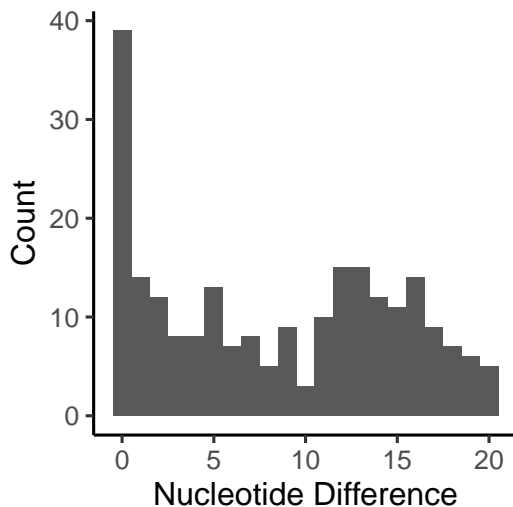
IGHV3-23*04

430 sequences assigned
53 (12.3%) exact matches, in which:
51 unique CDR3
5 unique J



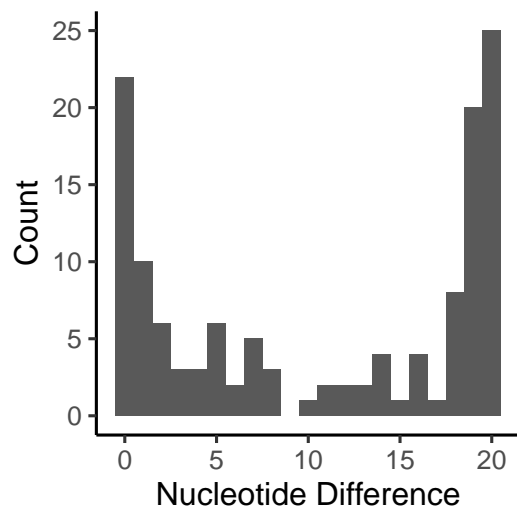
IGHV3-48*01

266 sequences assigned
39 (14.7%) exact matches, in which:
38 unique CDR3
4 unique J



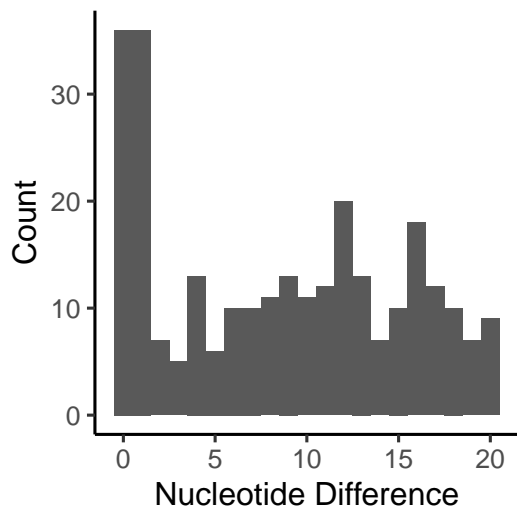
IGHV3-49*04

153 sequences assigned
22 (14.4%) exact matches, in which:
20 unique CDR3
3 unique J



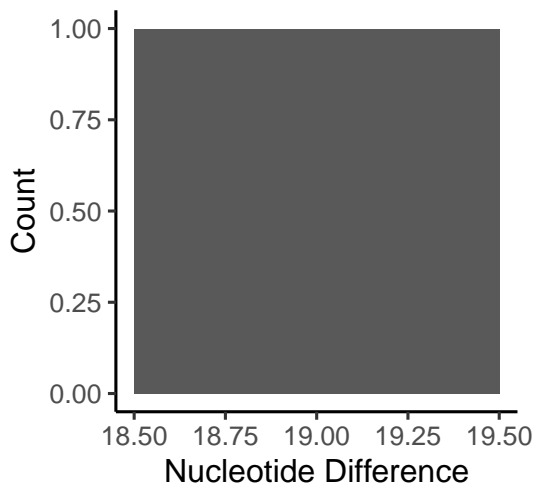
IGHV3-53*02

317 sequences assigned
36 (11.4%) exact matches, in which:
34 unique CDR3
5 unique J



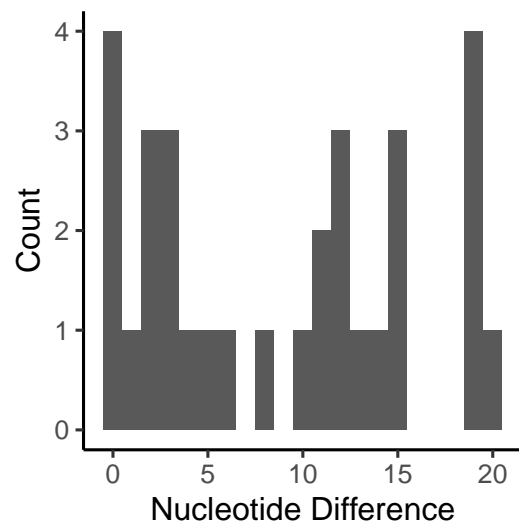
IGHV3-69-1*01

3 sequences assigned
No exact matches.



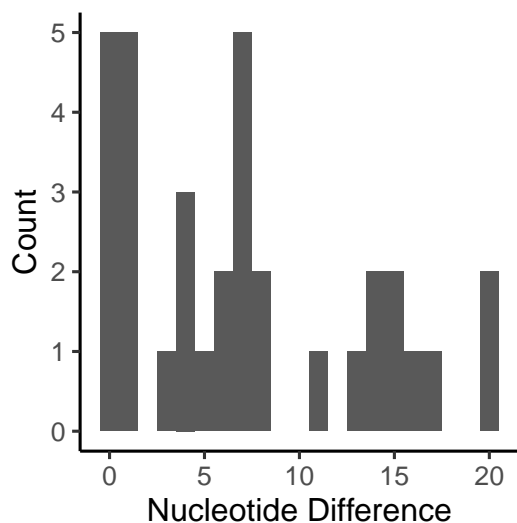
IGHV3-73*02

36 sequences assigned
4 (11.1%) exact matches, in which:
4 unique CDR3
2 unique J



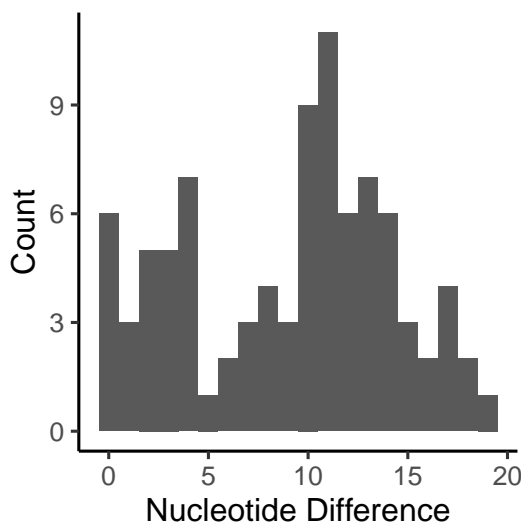
IGHV3-64*01

40 sequences assigned
5 (12.5%) exact matches, in which:
4 unique CDR3
3 unique J



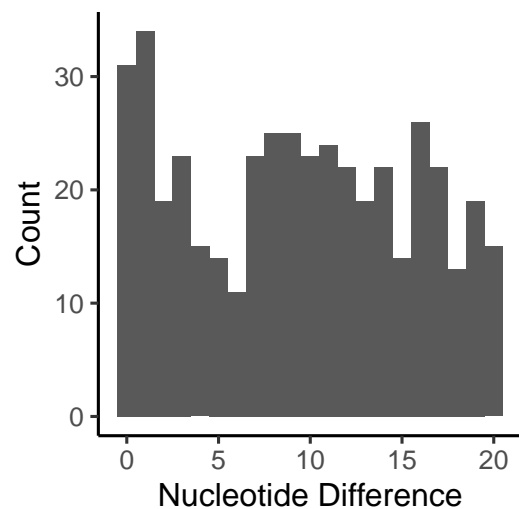
IGHV3-72*01

104 sequences assigned
6 (5.8%) exact matches, in which:
6 unique CDR3
4 unique J



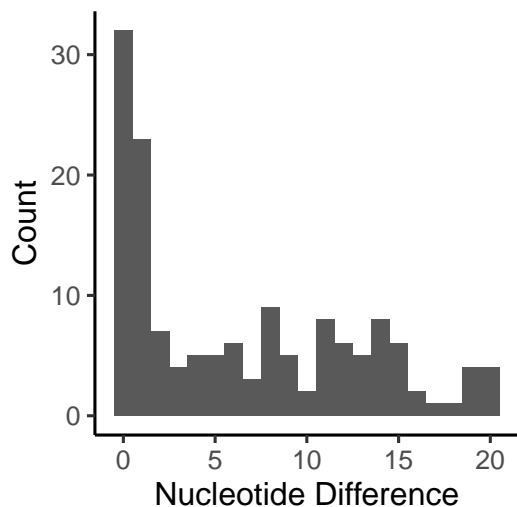
IGHV3-74*01

502 sequences assigned
31 (6.2%) exact matches, in which:
31 unique CDR3
5 unique J



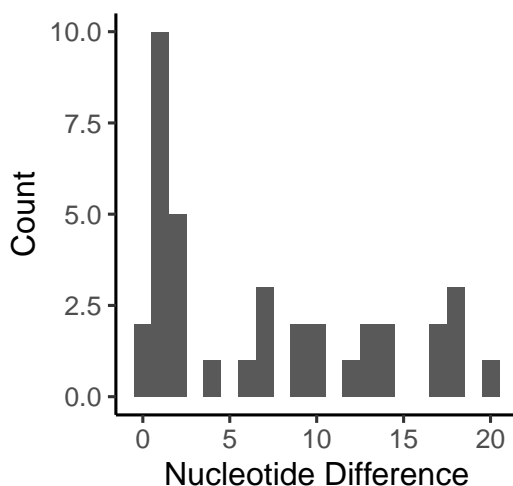
IGHV3-66*02

175 sequences assigned
32 (18.3%) exact matches, in which:
27 unique CDR3
4 unique J



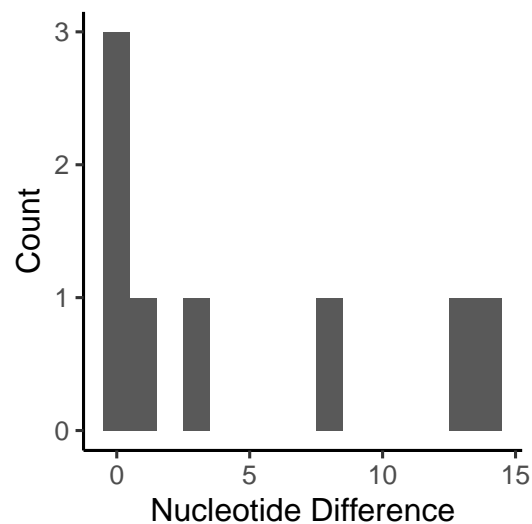
IGHV3-73*01

45 sequences assigned
2 (4.4%) exact matches, in which:
1 unique CDR3
1 unique J



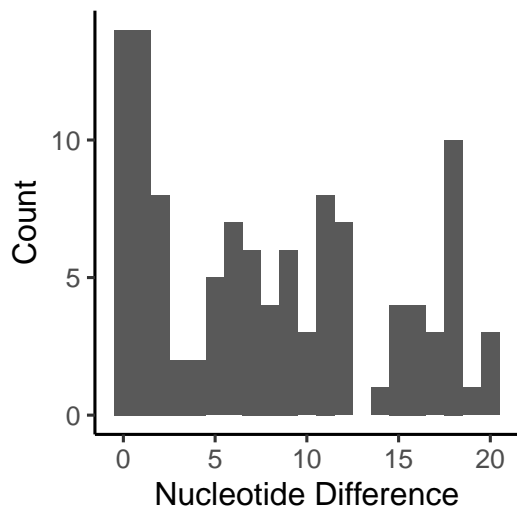
IGHV3-43D*04

8 sequences assigned
3 (37.5%) exact matches, in which:
3 unique CDR3
2 unique J



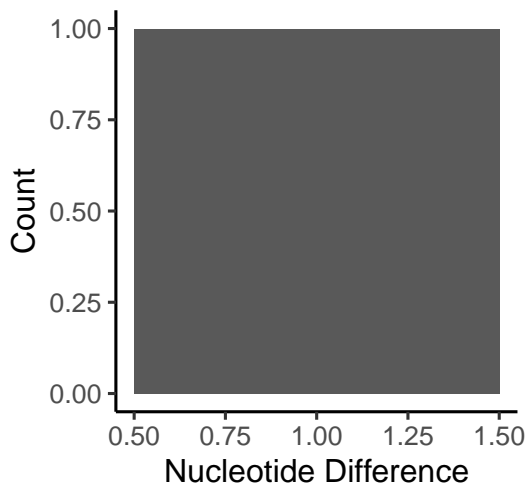
IGHV3-64D*06

133 sequences assigned
14 (10.5%) exact matches, in which:
14 unique CDR3
3 unique J



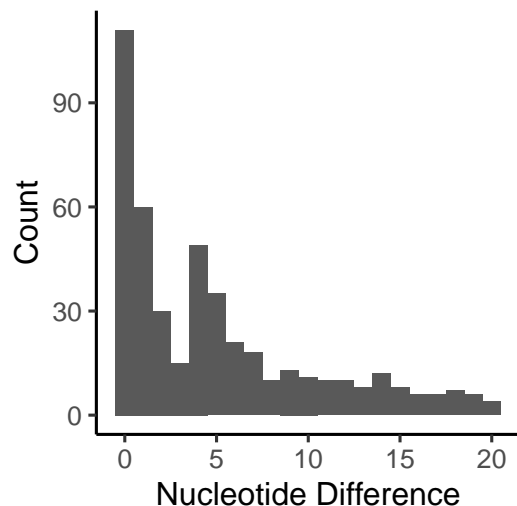
IGHV4-28*07

6 sequences assigned
No exact matches.



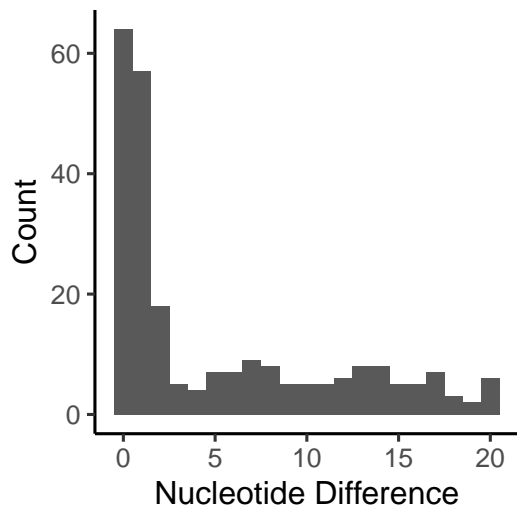
IGHV4-34*01

476 sequences assigned
111 (23.3%) exact matches, in which:
108 unique CDR3
6 unique J



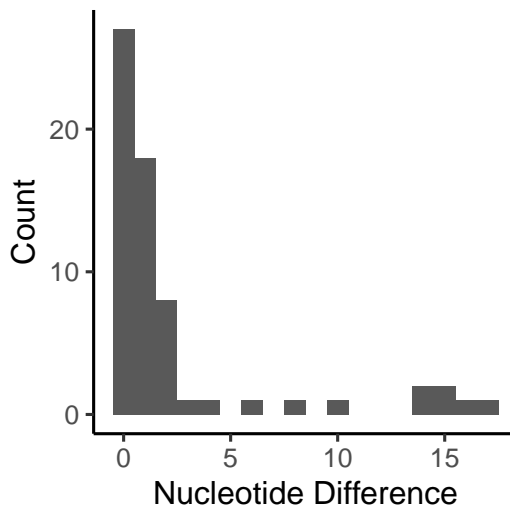
IGHV4-4*02

271 sequences assigned
64 (23.6%) exact matches, in which:
50 unique CDR3
4 unique J



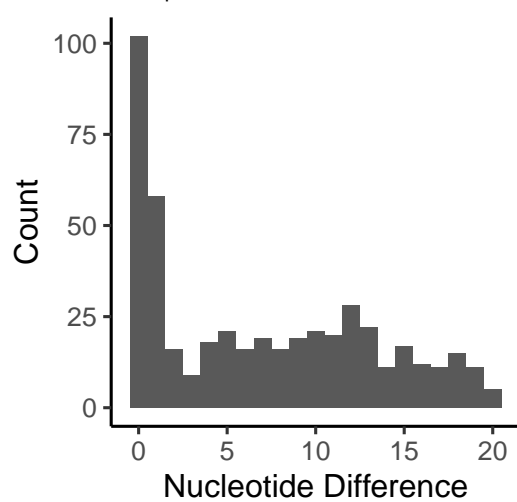
IGHV4-30-2*01

65 sequences assigned
27 (41.5%) exact matches, in which:
23 unique CDR3
4 unique J



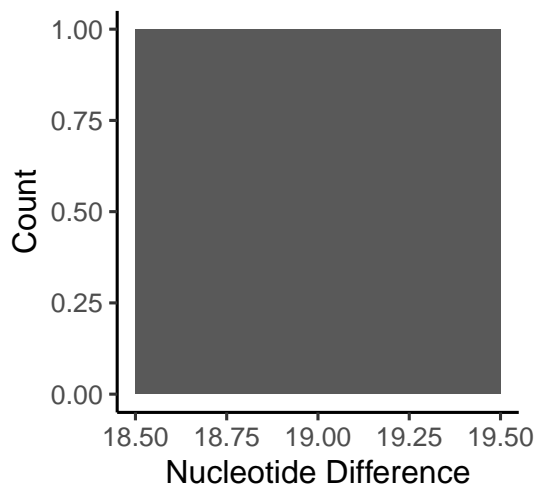
IGHV4-38-2*02_A70G

515 sequences assigned
102 (19.8%) exact matches, in which:
85 unique CDR3
5 unique J



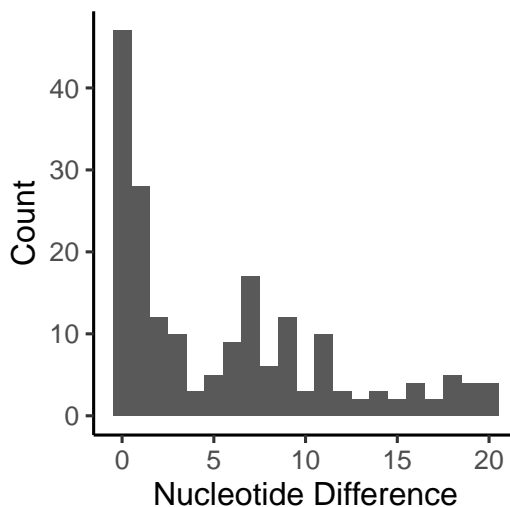
IGHV4-28*03

1 sequences assigned
No exact matches.



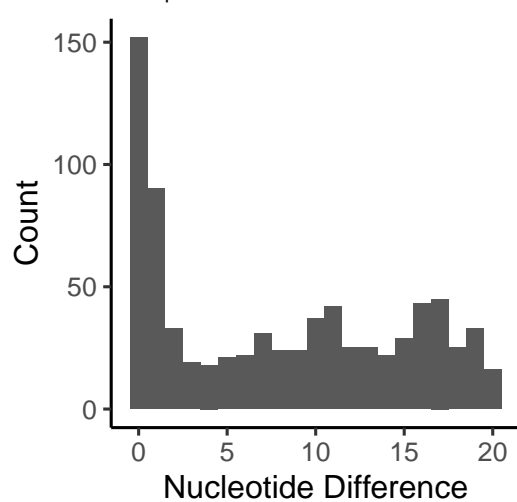
IGHV4-31*03

243 sequences assigned
47 (19.3%) exact matches, in which:
43 unique CDR3
5 unique J



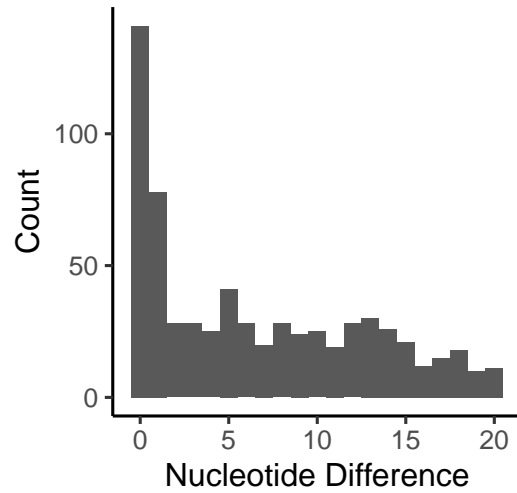
IGHV4-39*01

845 sequences assigned
152 (18%) exact matches, in which:
146 unique CDR3
6 unique J



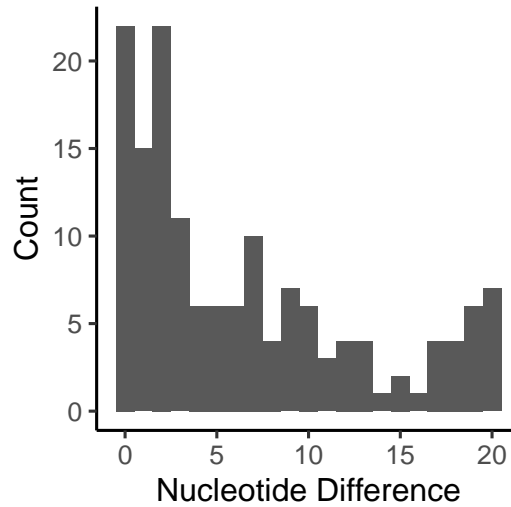
IGHV4–59*01

728 sequences assigned
141 (19.4%) exact matches, in which:
121 unique CDR3
6 unique J



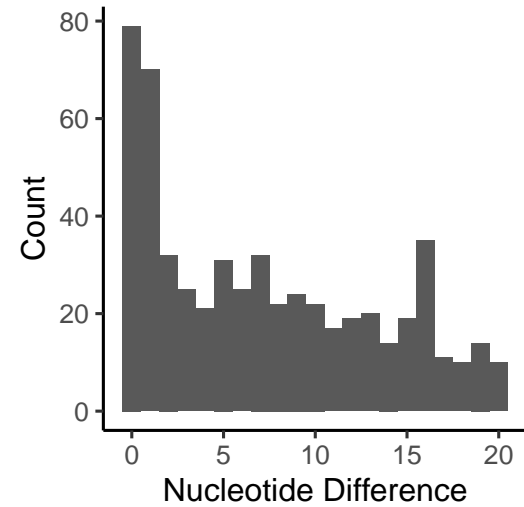
IGHV5–10–1*03

158 sequences assigned
22 (13.9%) exact matches, in which:
22 unique CDR3
3 unique J



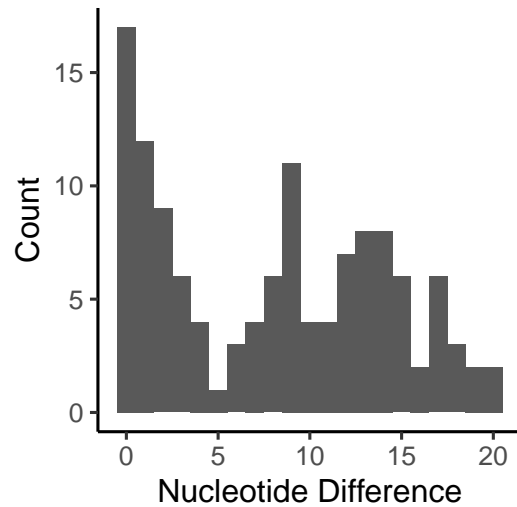
IGHV6–1*01

575 sequences assigned
79 (13.7%) exact matches, in which:
64 unique CDR3
6 unique J



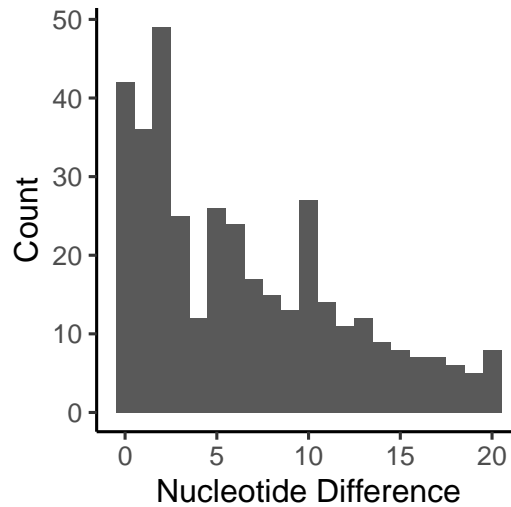
IGHV4–61*01

145 sequences assigned
17 (11.7%) exact matches, in which:
16 unique CDR3
4 unique J



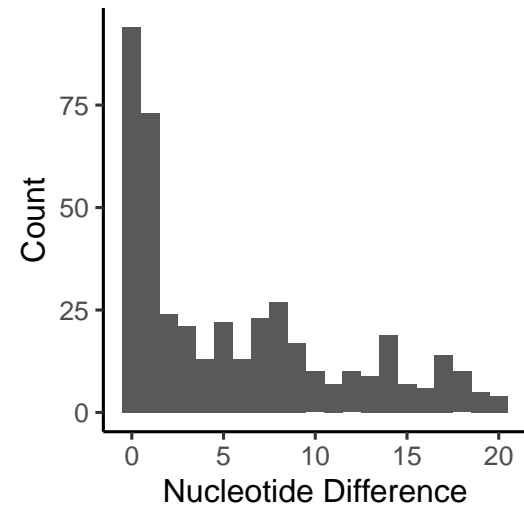
IGHV5–51*01

394 sequences assigned
42 (10.7%) exact matches, in which:
38 unique CDR3
5 unique J



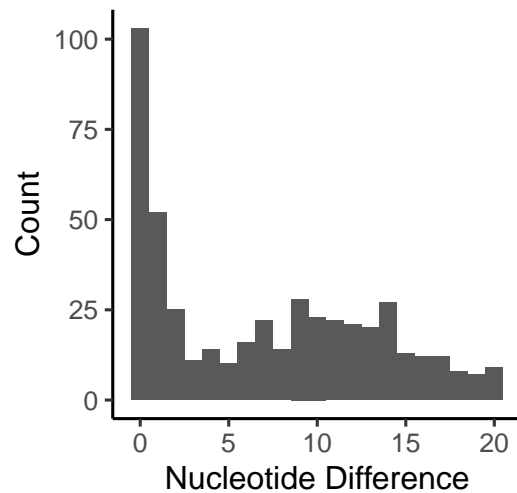
IGHV7–4–1*02

449 sequences assigned
94 (20.9%) exact matches, in which:
81 unique CDR3
5 unique J



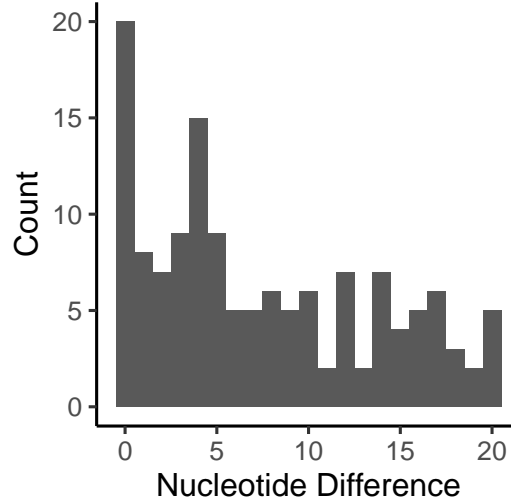
IGHV4–61*02

496 sequences assigned
103 (20.8%) exact matches, in which:
89 unique CDR3
6 unique J



IGHV5–51*03

147 sequences assigned
20 (13.6%) exact matches, in which:
20 unique CDR3
4 unique J





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.

Warning – no inferred sequences found.