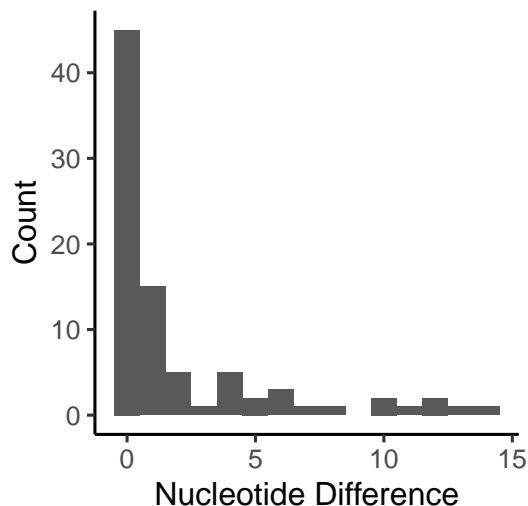


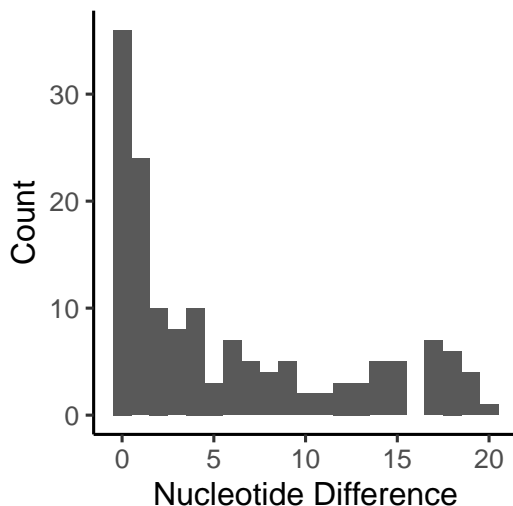
IGHV1-2*04

85 sequences assigned
45 (52.9%) exact matches, in which:
44 unique CDR3
5 unique J



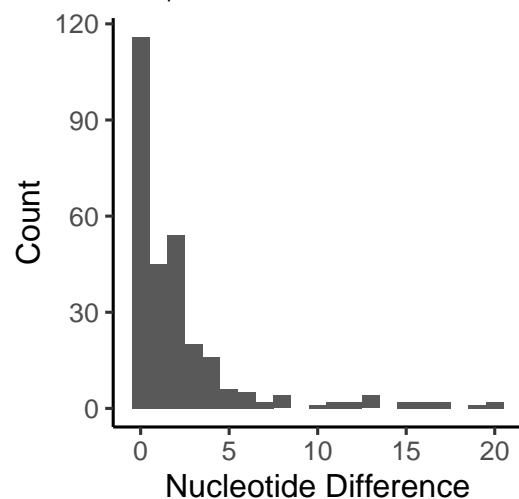
IGHV1-8*01

155 sequences assigned
36 (23.2%) exact matches, in which:
36 unique CDR3
4 unique J



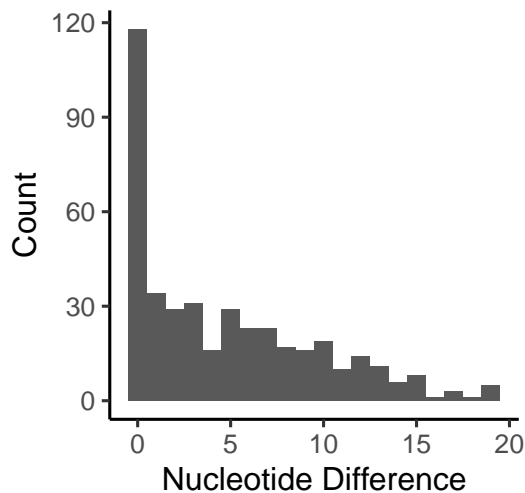
IGHV1-24*01

290 sequences assigned
116 (40%) exact matches, in which:
115 unique CDR3
5 unique J



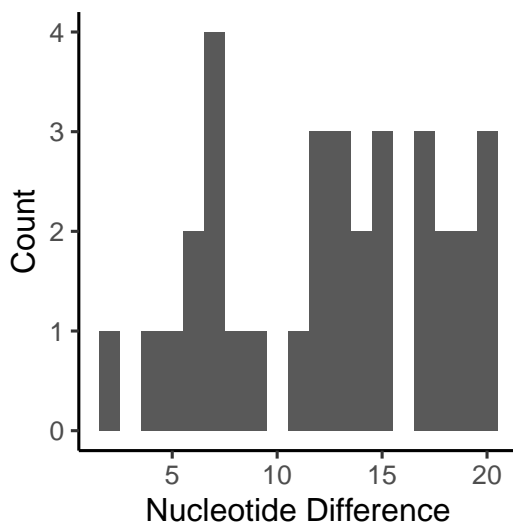
IGHV1-2*06

424 sequences assigned
118 (27.8%) exact matches, in which:
115 unique CDR3
5 unique J



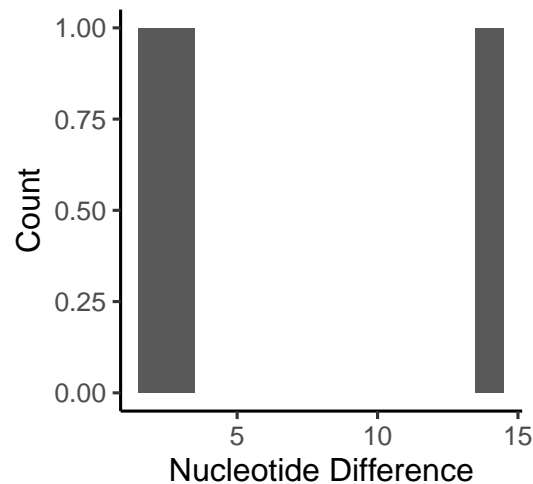
IGHV1-8*02

37 sequences assigned
No exact matches.



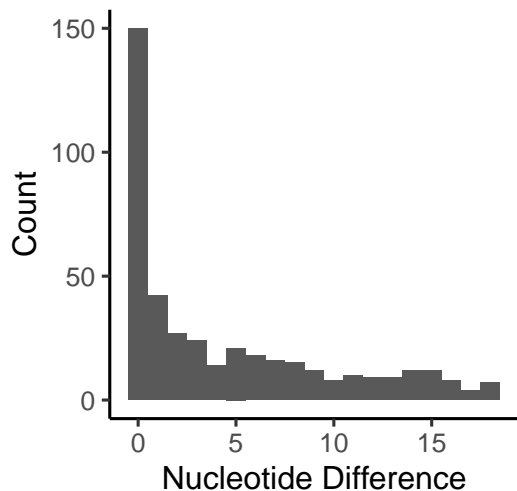
IGHV1-45*02

3 sequences assigned
No exact matches.



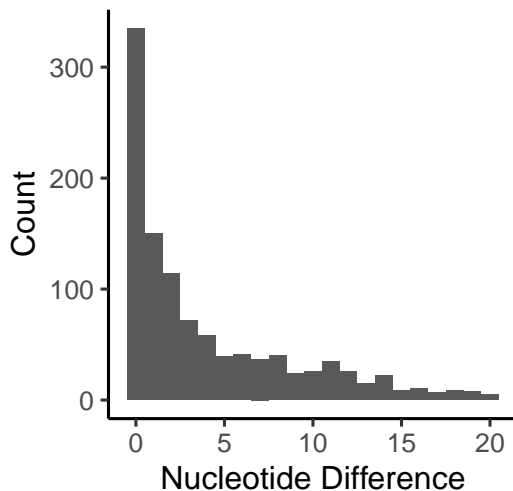
IGHV1-3*01

430 sequences assigned
150 (34.9%) exact matches, in which:
142 unique CDR3
6 unique J



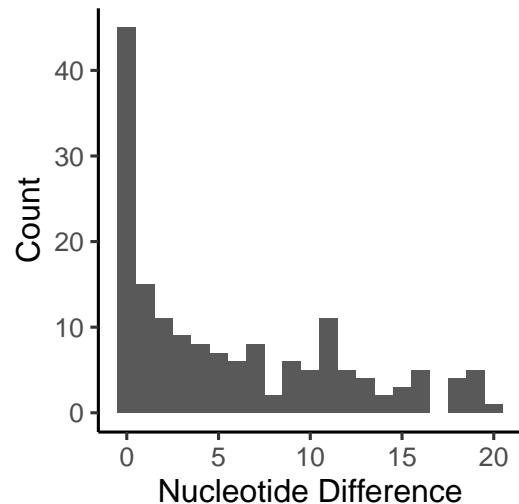
IGHV1-18*01

1106 sequences assigned
335 (30.3%) exact matches, in which:
324 unique CDR3
6 unique J



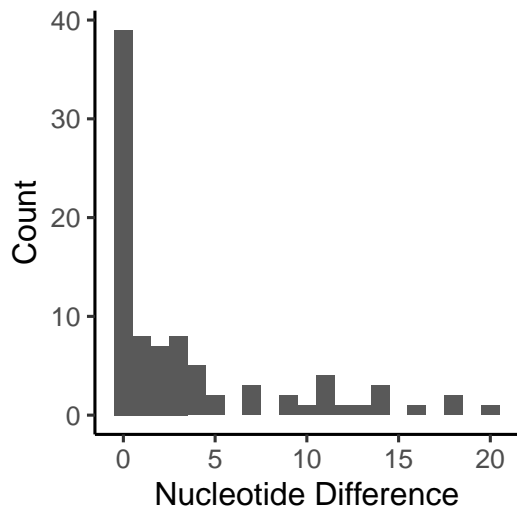
IGHV1-46*01

179 sequences assigned
45 (25.1%) exact matches, in which:
41 unique CDR3
5 unique J



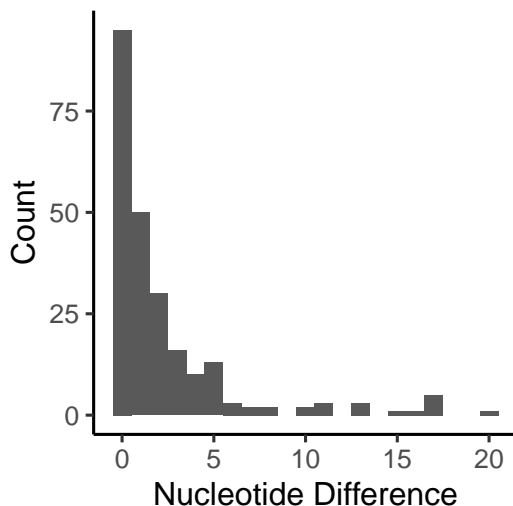
IGHV1-46*03

90 sequences assigned
39 (43.3%) exact matches, in which:
37 unique CDR3
4 unique J



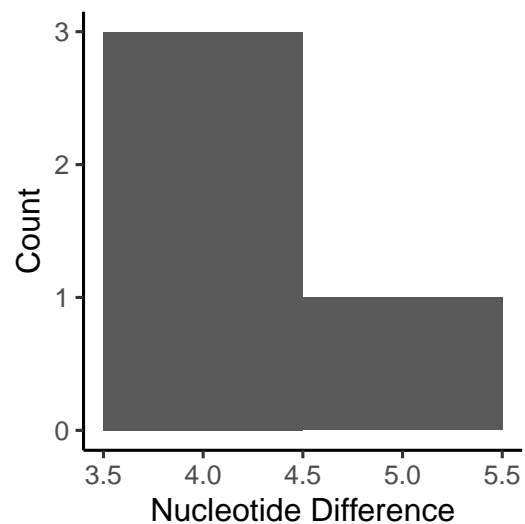
IGHV1-69*04

242 sequences assigned
95 (39.3%) exact matches, in which:
93 unique CDR3
6 unique J



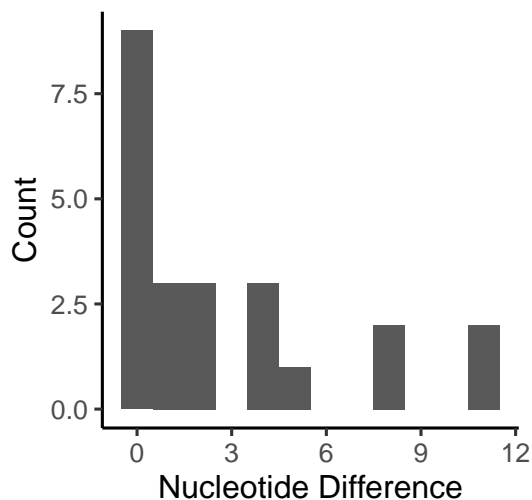
IGHV1-NL1*01

4 sequences assigned
No exact matches.



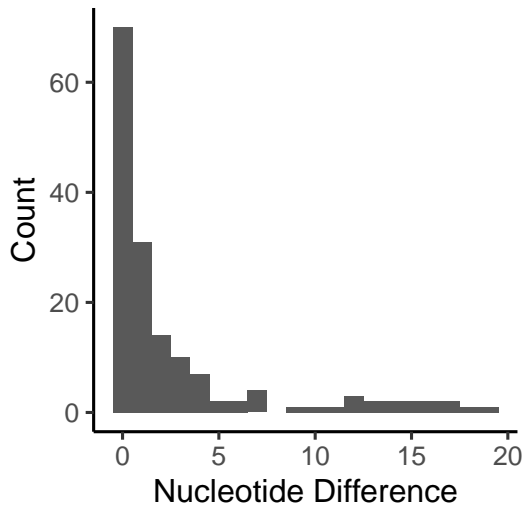
IGHV1-58*02

34 sequences assigned
9 (26.5%) exact matches, in which:
9 unique CDR3
2 unique J



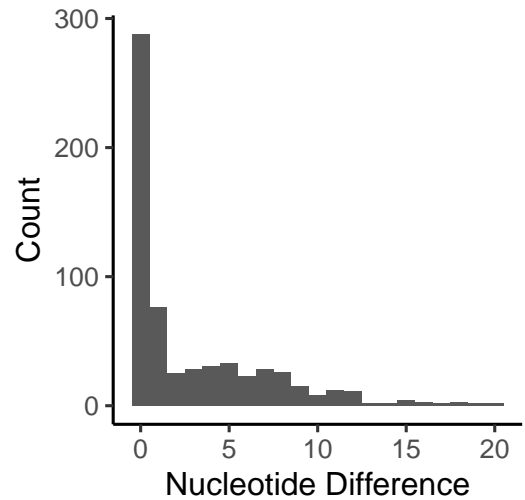
IGHV1-69*10

168 sequences assigned
70 (41.7%) exact matches, in which:
69 unique CDR3
6 unique J



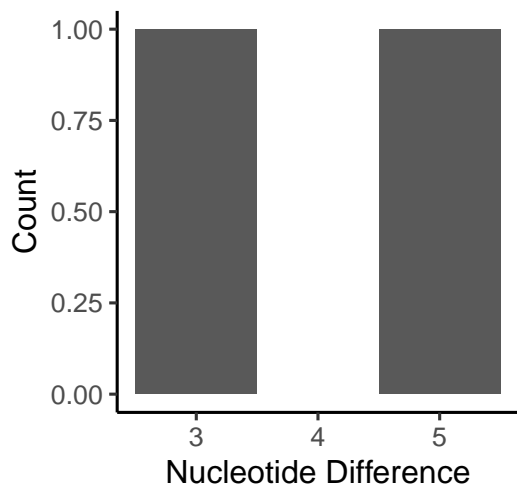
IGHV2-5*02

637 sequences assigned
288 (45.2%) exact matches, in which:
277 unique CDR3
6 unique J



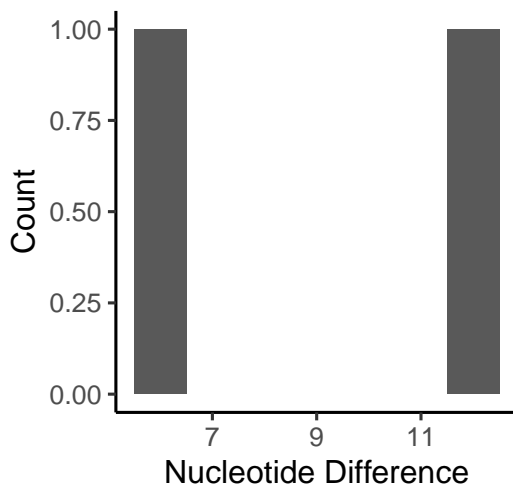
IGHV1-68*02

2 sequences assigned
No exact matches.



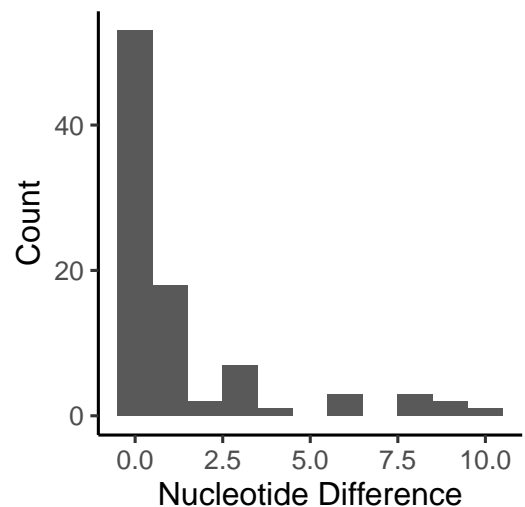
IGHV1-69D*01

2 sequences assigned
No exact matches.



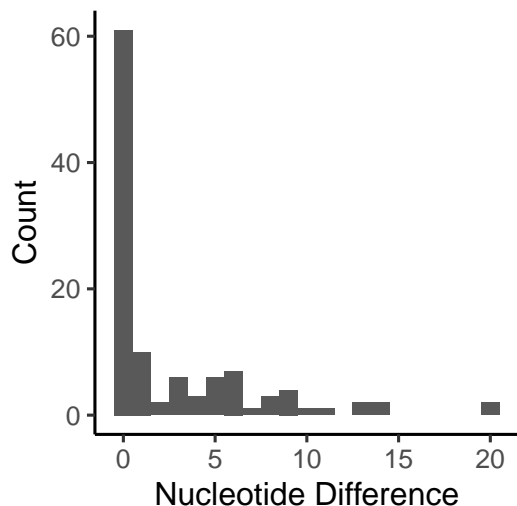
IGHV2-26*01

91 sequences assigned
53 (58.2%) exact matches, in which:
52 unique CDR3
6 unique J



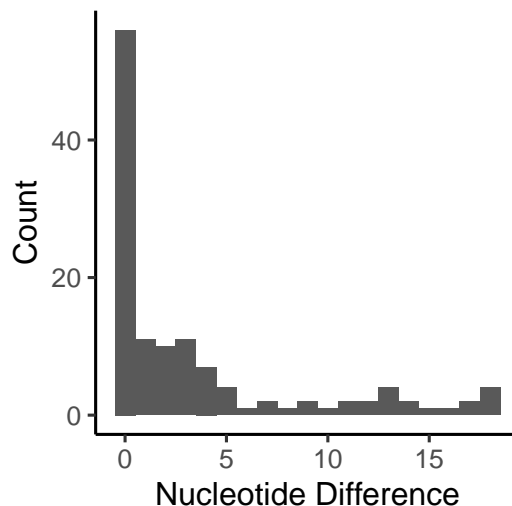
IGHV2-70*15

113 sequences assigned
61 (54%) exact matches, in which:
61 unique CDR3
4 unique J



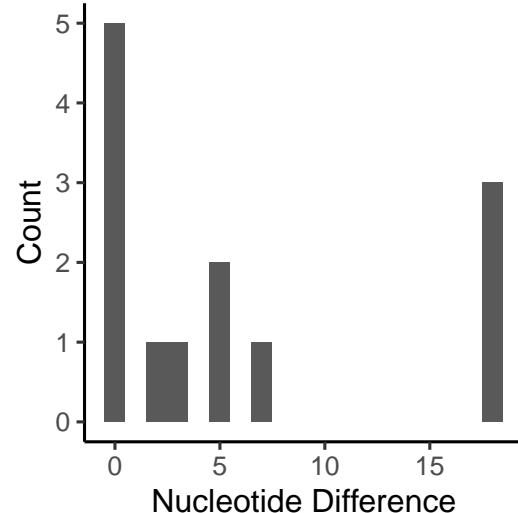
IGHV3-9*01

126 sequences assigned
56 (44.4%) exact matches, in which:
55 unique CDR3
6 unique J



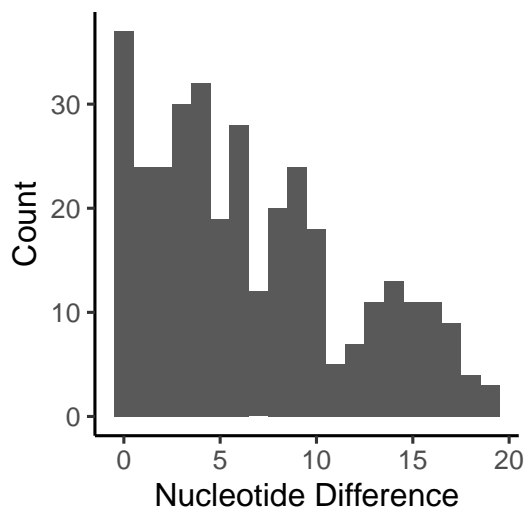
IGHV3-11*06

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



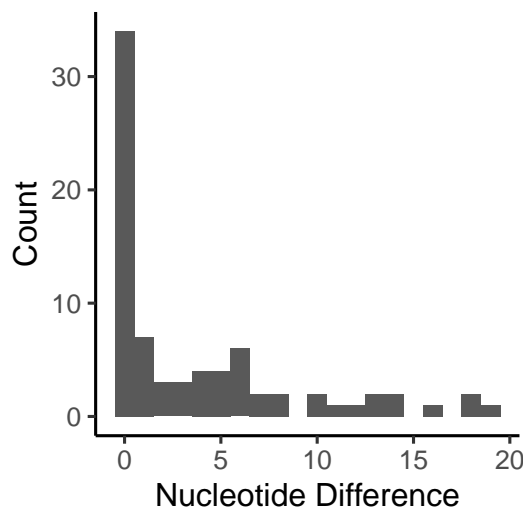
IGHV3-7*01

362 sequences assigned
37 (10.2%) exact matches, in which:
37 unique CDR3
4 unique J



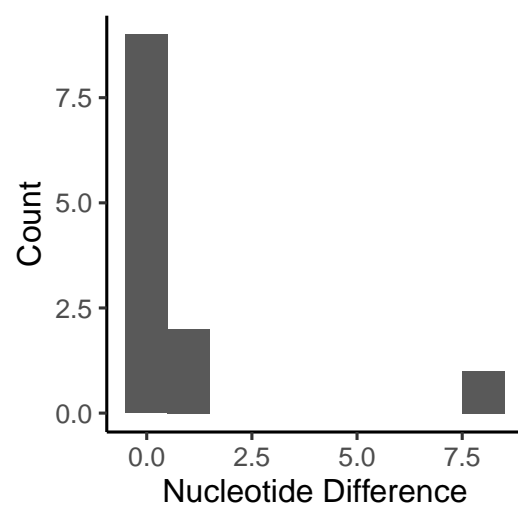
IGHV3-11*01

78 sequences assigned
34 (43.6%) exact matches, in which:
33 unique CDR3
5 unique J



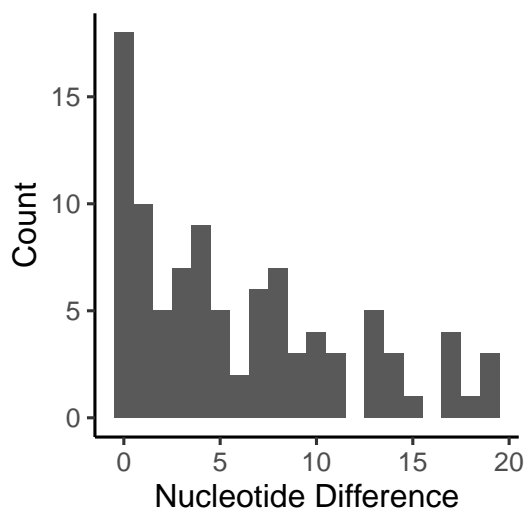
IGHV3-13*01

13 sequences assigned
9 (69.2%) exact matches, in which:
9 unique CDR3
4 unique J



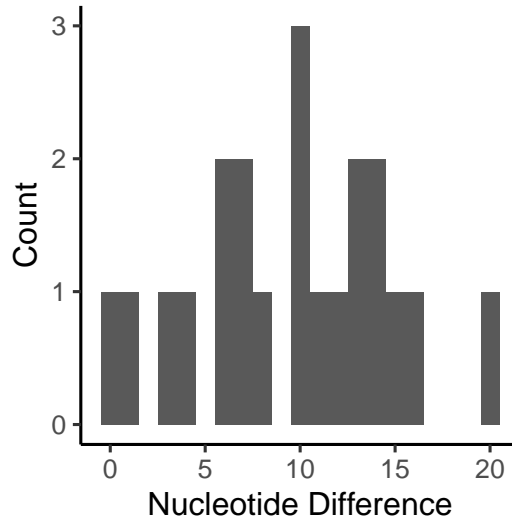
IGHV3-7*04

104 sequences assigned
18 (17.3%) exact matches, in which:
17 unique CDR3
5 unique J



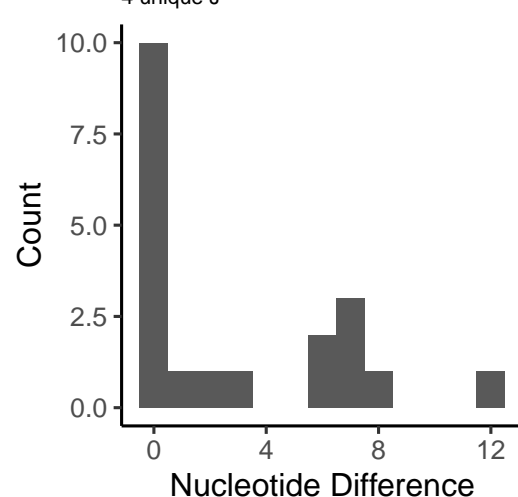
IGHV3-11*04

24 sequences assigned
1 (4.2%) exact matches, in which:
1 unique CDR3
1 unique J



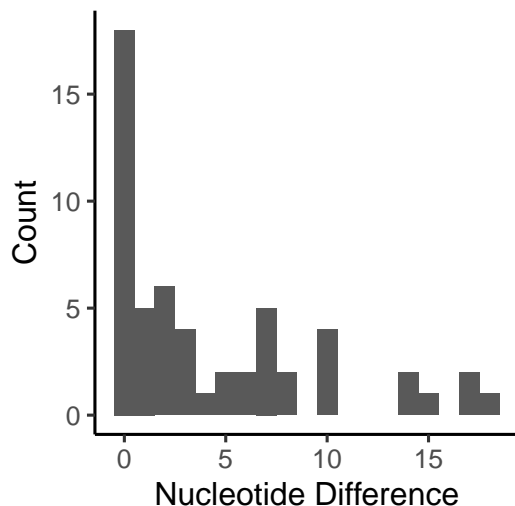
IGHV3-13*01_G290A_T

20 sequences assigned
10 (50%) exact matches, in which:
9 unique CDR3
4 unique J



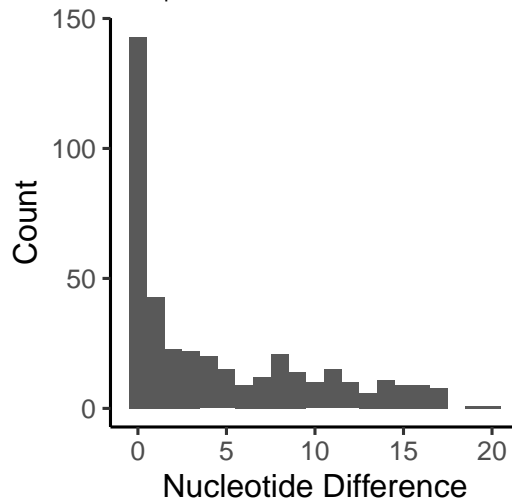
IGHV3-15*01

61 sequences assigned
18 (29.5%) exact matches, in which:
17 unique CDR3
4 unique J



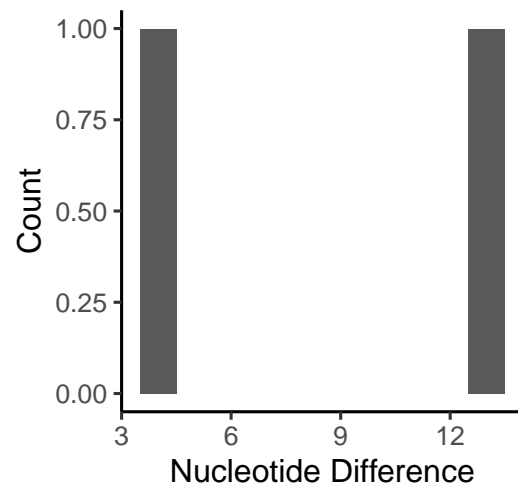
IGHV3-21*01

417 sequences assigned
143 (34.3%) exact matches, in which:
137 unique CDR3
6 unique J



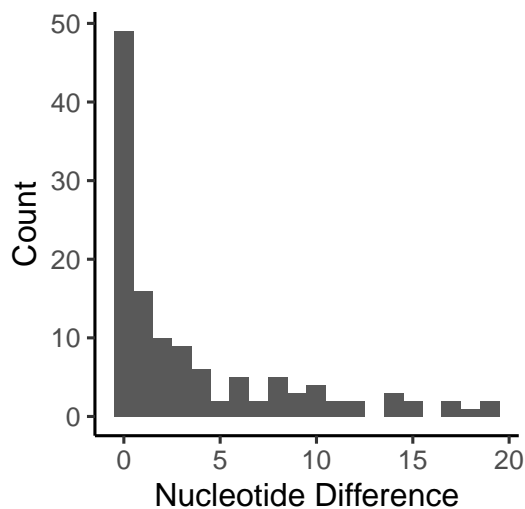
IGHV3-30-5*02

3 sequences assigned
No exact matches.



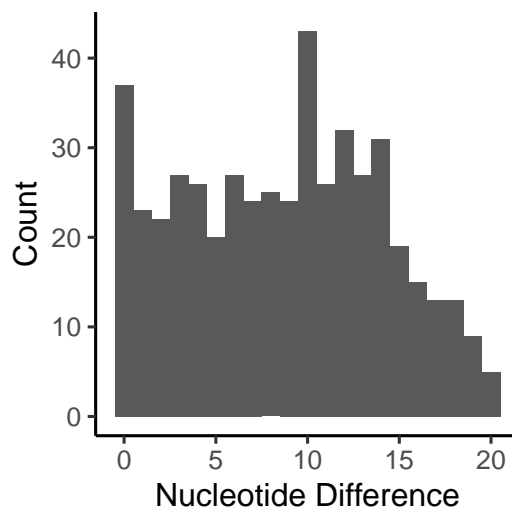
IGHV3-15*07

134 sequences assigned
49 (36.6%) exact matches, in which:
49 unique CDR3
5 unique J



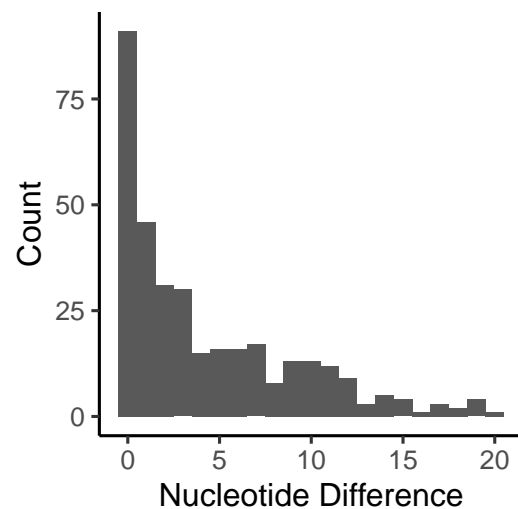
IGHV3-23*04

504 sequences assigned
37 (7.3%) exact matches, in which:
37 unique CDR3
4 unique J



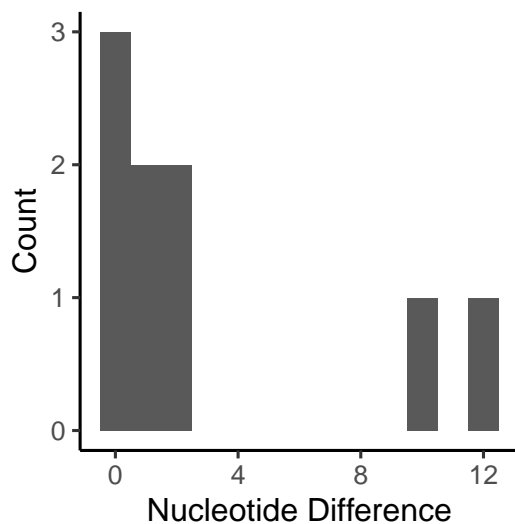
IGHV3-33*01

344 sequences assigned
91 (26.5%) exact matches, in which:
91 unique CDR3
5 unique J



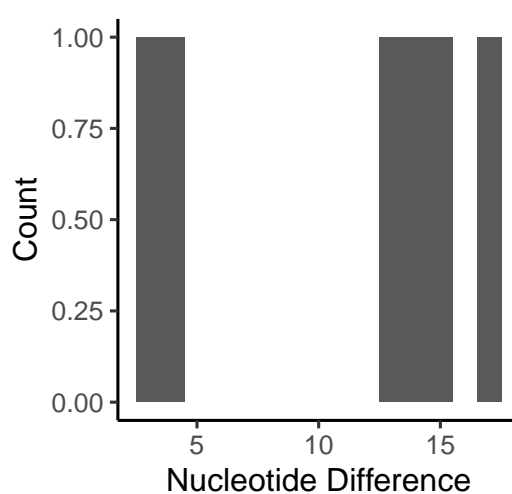
IGHV3-20*04

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



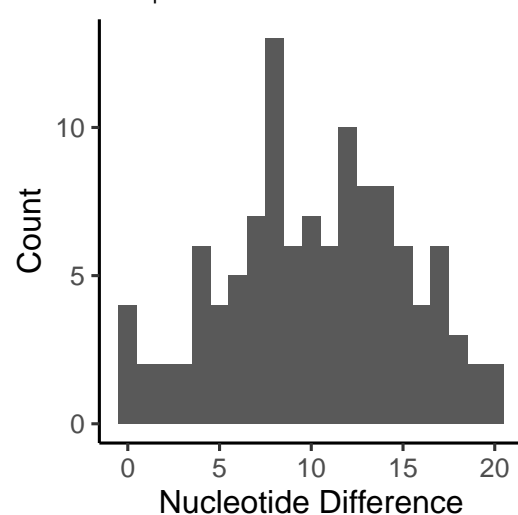
IGHV3-30-5*01

6 sequences assigned
No exact matches.



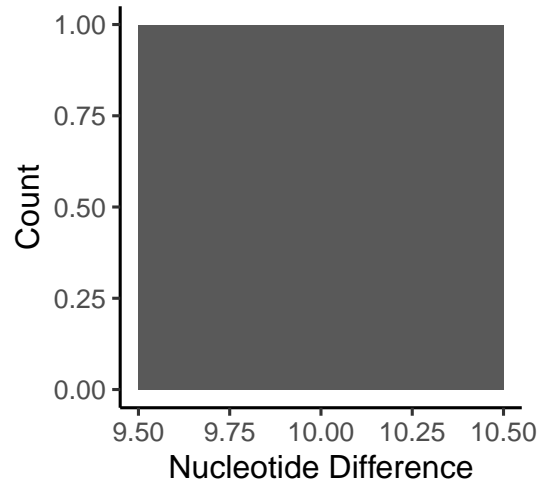
IGHV3-33*08

119 sequences assigned
4 (3.4%) exact matches, in which:
4 unique CDR3
2 unique J



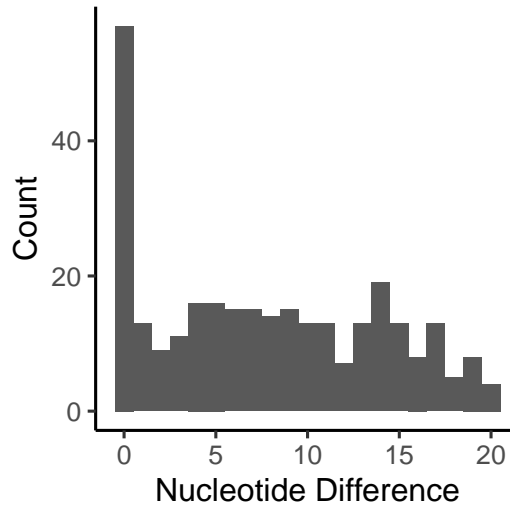
IGHV3-38-3*01

1 sequences assigned
No exact matches.



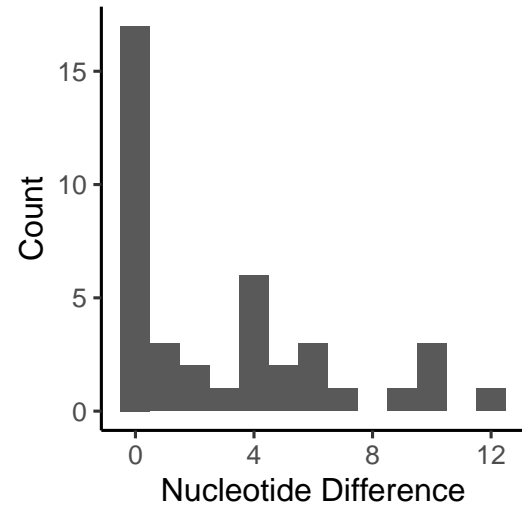
IGHV3-48*04

318 sequences assigned
57 (17.9%) exact matches, in which:
55 unique CDR3
5 unique J



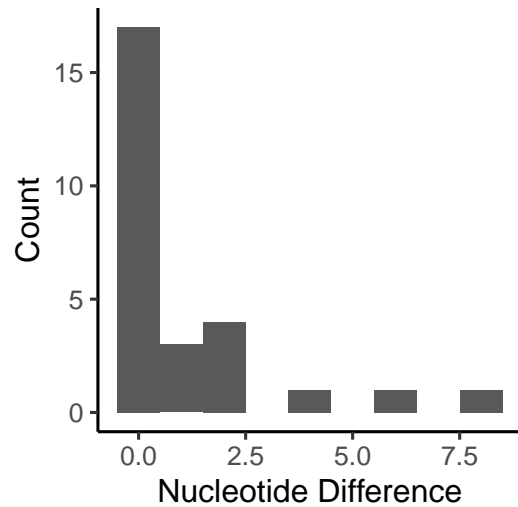
IGHV3-64*01

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



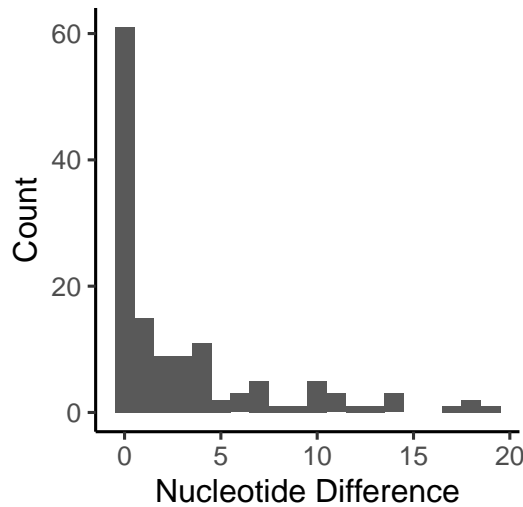
IGHV3-43*01

27 sequences assigned
17 (63%) exact matches, in which:
16 unique CDR3
3 unique J



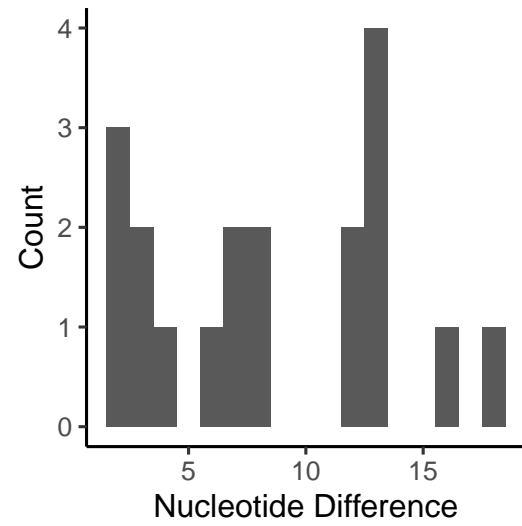
IGHV3-49*03

137 sequences assigned
61 (44.5%) exact matches, in which:
58 unique CDR3
5 unique J



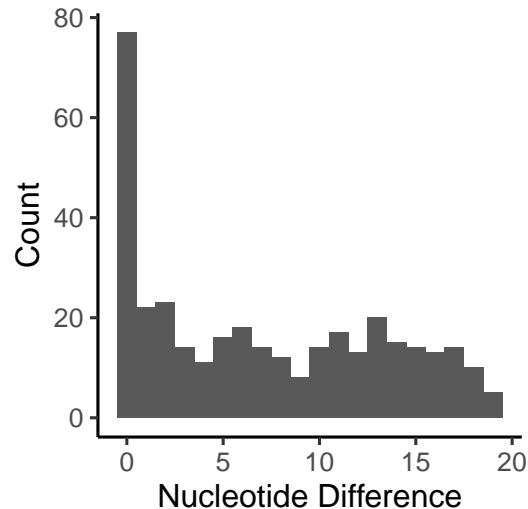
IGHV3-64*04

19 sequences assigned
No exact matches.



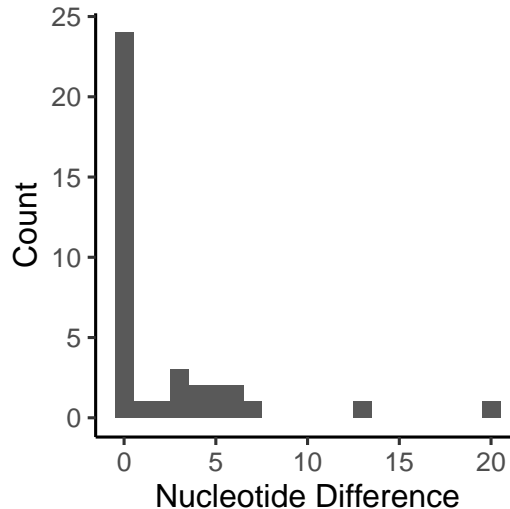
IGHV3-48*01

361 sequences assigned
77 (21.3%) exact matches, in which:
76 unique CDR3
6 unique J



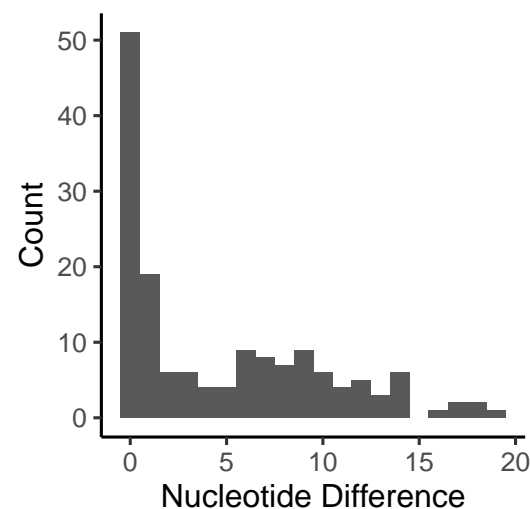
IGHV3-53*04

38 sequences assigned
24 (63.2%) exact matches, in which:
21 unique CDR3
4 unique J



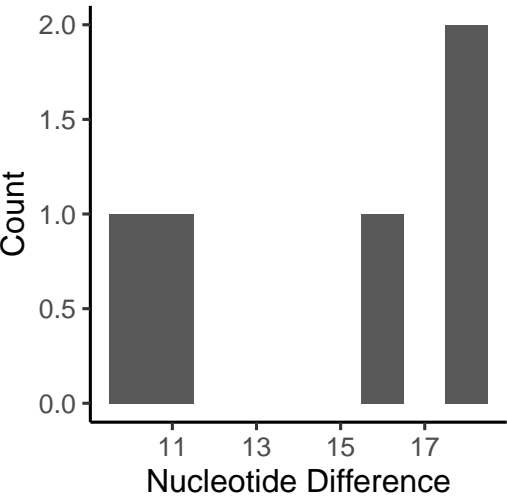
IGHV3-66*01

158 sequences assigned
51 (32.3%) exact matches, in which:
48 unique CDR3
6 unique J



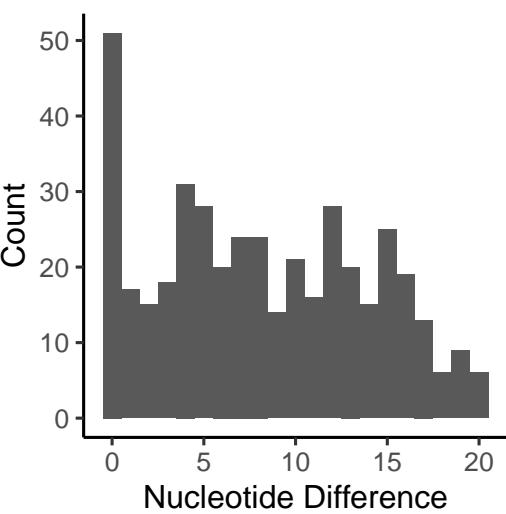
IGHV3-69-1*01

6 sequences assigned
No exact matches.



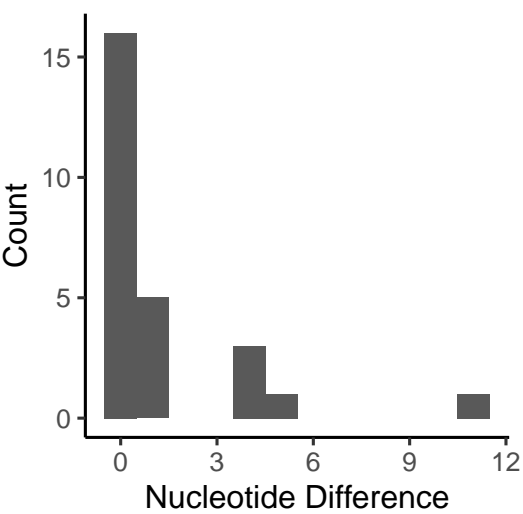
IGHV3-74*01

449 sequences assigned
51 (11.4%) exact matches, in which:
49 unique CDR3
6 unique J



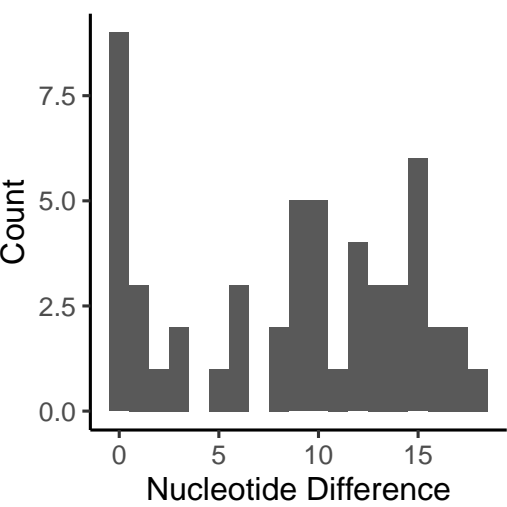
IGHV3-64D*06

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



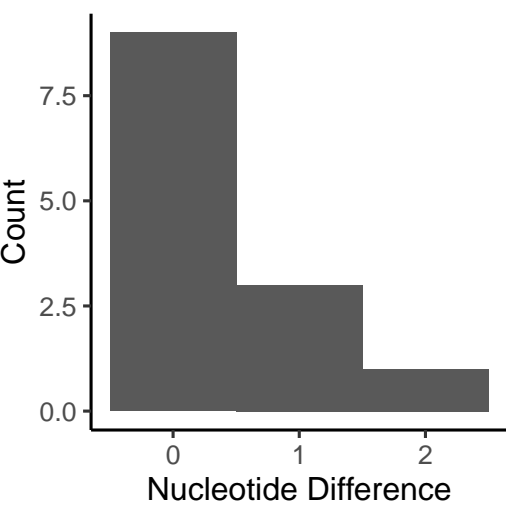
IGHV3-72*01

58 sequences assigned
9 (15.5%) exact matches, in which:
9 unique CDR3
2 unique J



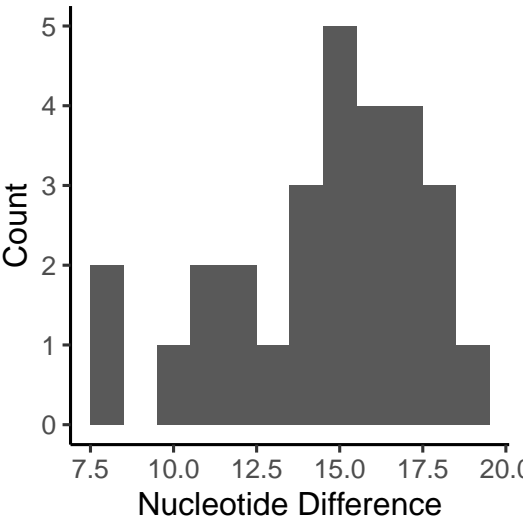
IGHV3-43D*03

13 sequences assigned
9 (69.2%) exact matches, in which:
9 unique CDR3
3 unique J



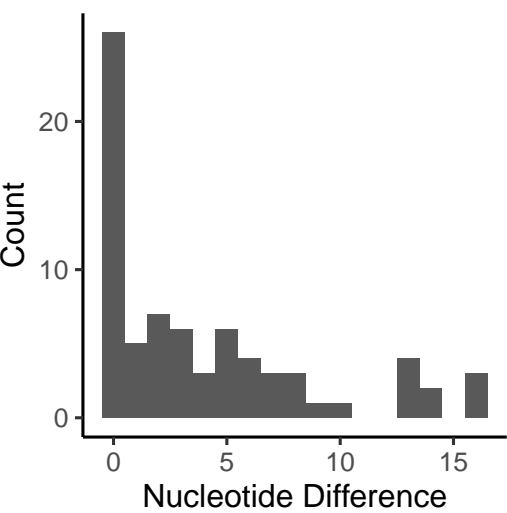
IGHV3-NL1*01

29 sequences assigned
No exact matches.



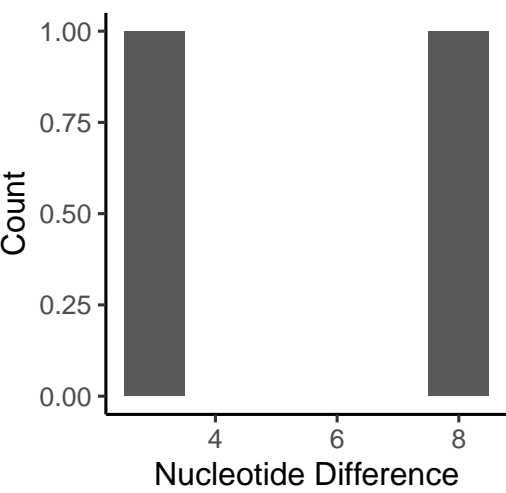
IGHV3-73*01

76 sequences assigned
26 (34.2%) exact matches, in which:
24 unique CDR3
4 unique J



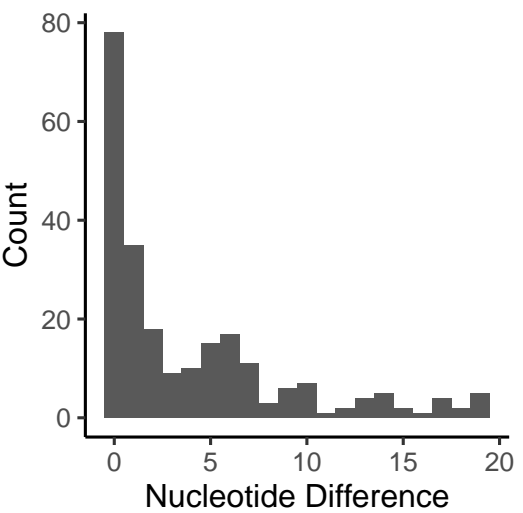
IGHV3-43D*04

2 sequences assigned
No exact matches.



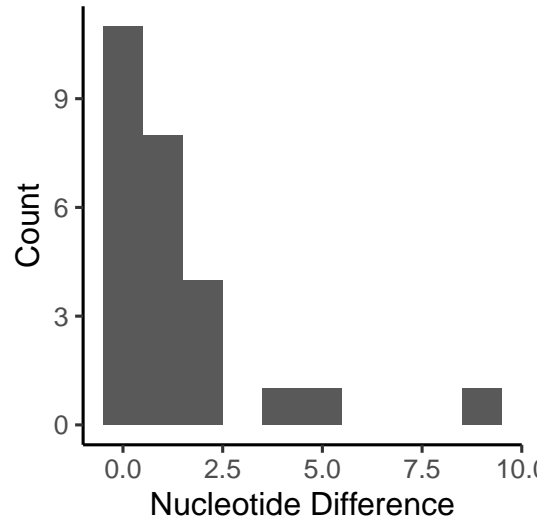
IGHV4-4*02

239 sequences assigned
78 (32.6%) exact matches, in which:
78 unique CDR3
6 unique J



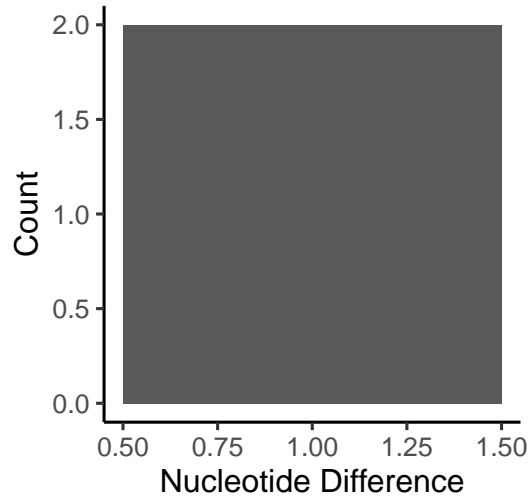
IGHV4-4*02_A220G_A225~

26 sequences assigned
11 (42.3%) exact matches, in which:
11 unique CDR3
3 unique J



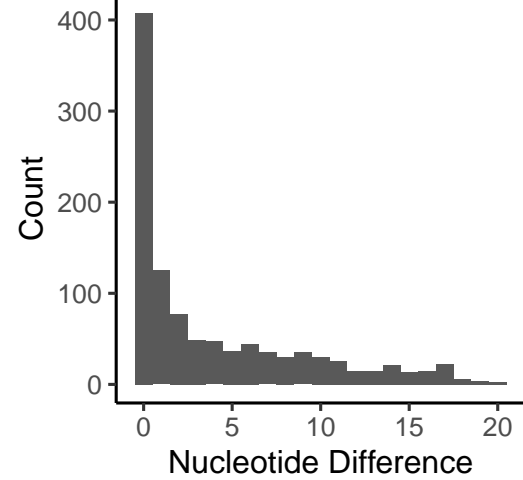
IGHV4-30-4*07

2 sequences assigned
No exact matches.



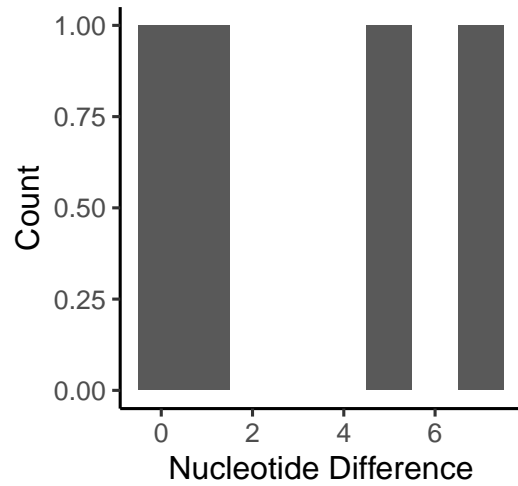
IGHV4-34*01

1100 sequences assigned
408 (37.1%) exact matches, in which:
405 unique CDR3
6 unique J



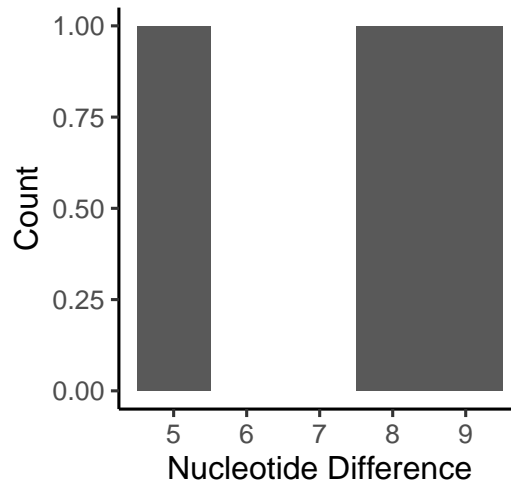
IGHV4-28*03

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



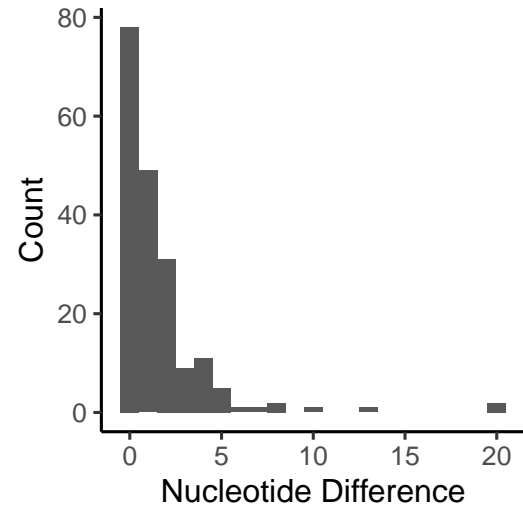
IGHV4-30-4*08

3 sequences assigned
No exact matches.



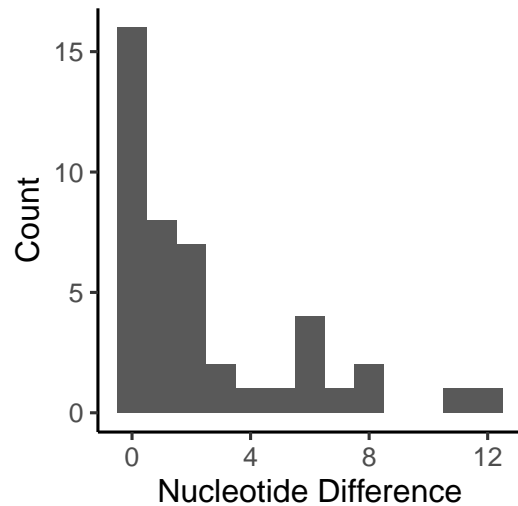
IGHV4-34*01_A220G_A225~

193 sequences assigned
78 (40.4%) exact matches, in which:
77 unique CDR3
5 unique J



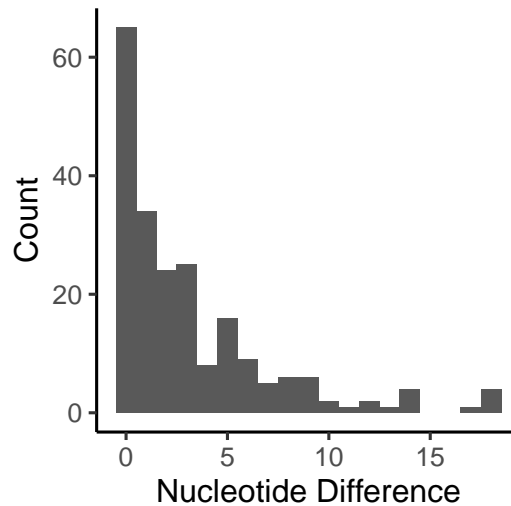
IGHV4-30-2*01

45 sequences assigned
16 (35.6%) exact matches, in which:
15 unique CDR3
5 unique J



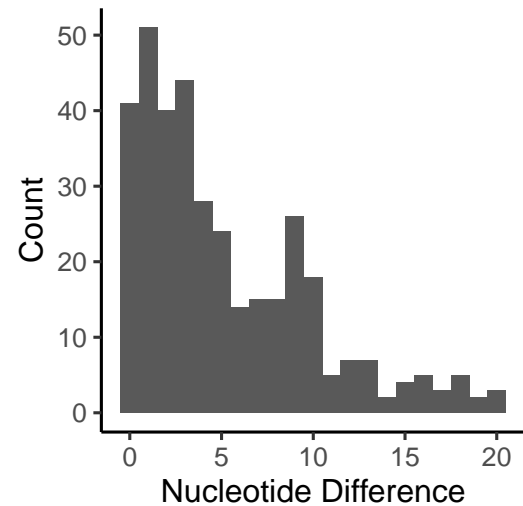
IGHV4-31*03

215 sequences assigned
65 (30.2%) exact matches, in which:
64 unique CDR3
4 unique J



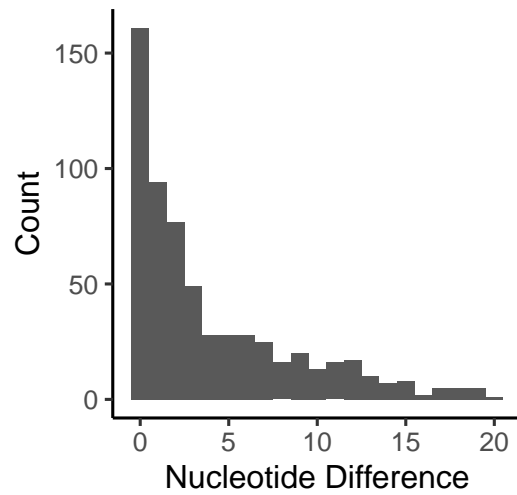
IGHV4-38-2*02

369 sequences assigned
41 (11.1%) exact matches, in which:
41 unique CDR3
4 unique J



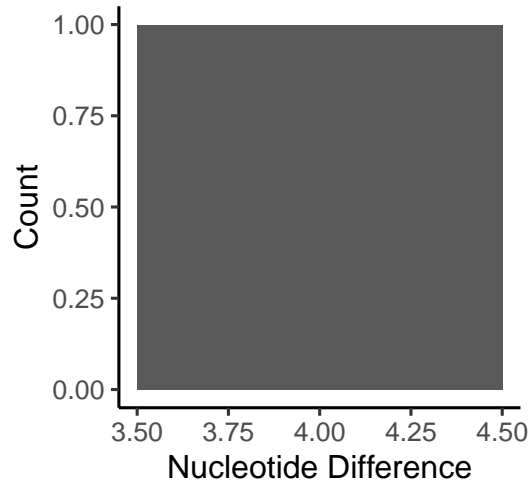
IGHV4-39*01

644 sequences assigned
161 (25%) exact matches, in which:
151 unique CDR3
6 unique J



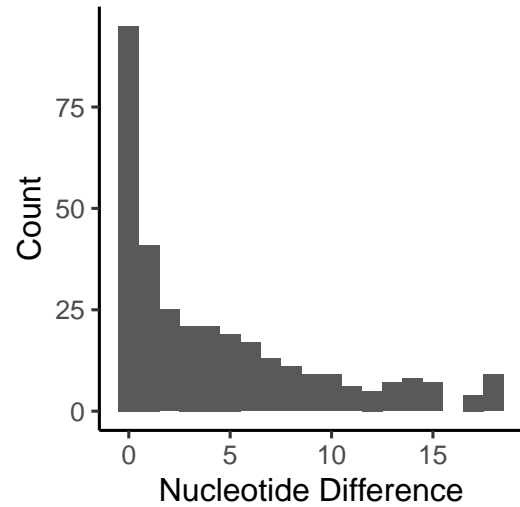
IGHV4-55*08

1 sequences assigned
No exact matches.



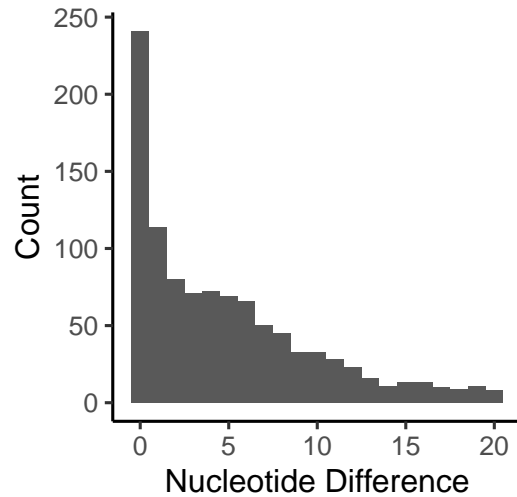
IGHV4-59*08

334 sequences assigned
95 (28.4%) exact matches, in which:
92 unique CDR3
5 unique J



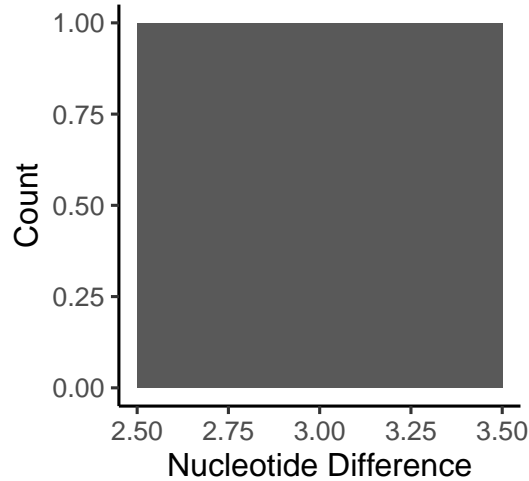
IGHV4-39*07

1057 sequences assigned
241 (22.8%) exact matches, in which:
239 unique CDR3
6 unique J



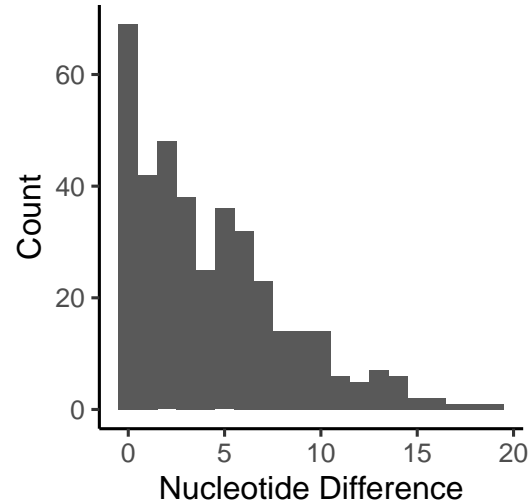
IGHV4-55*09

1 sequences assigned
No exact matches.



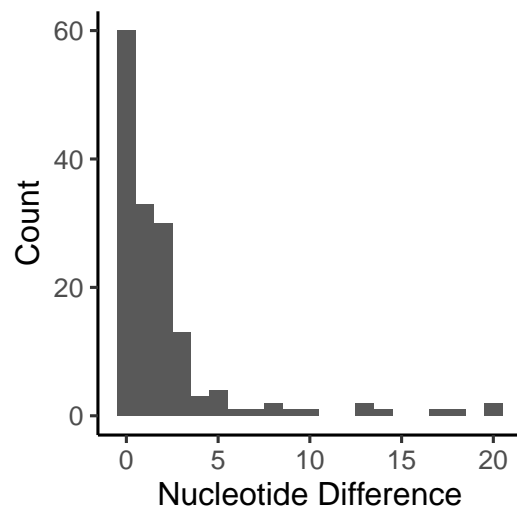
IGHV4-59*12

388 sequences assigned
69 (17.8%) exact matches, in which:
69 unique CDR3
5 unique J



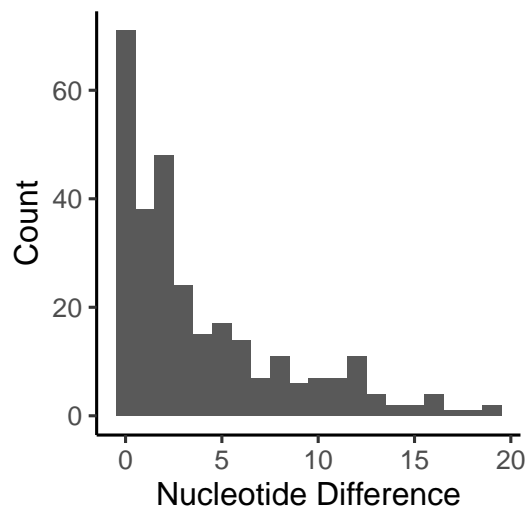
IGHV4-39*07_A220G_A2:

156 sequences assigned
60 (38.5%) exact matches, in which:
60 unique CDR3
6 unique J



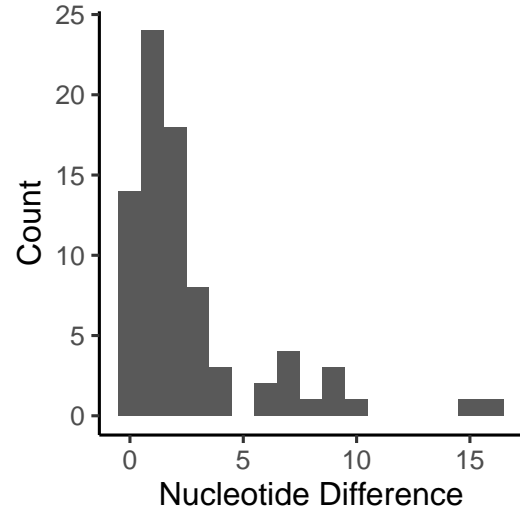
IGHV4-59*01

298 sequences assigned
71 (23.8%) exact matches, in which:
71 unique CDR3
5 unique J



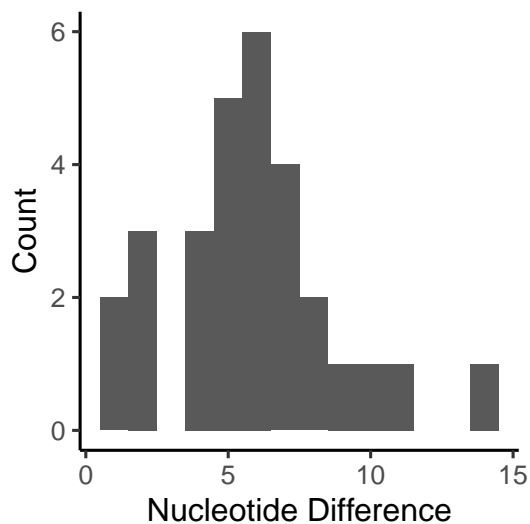
IGHV4-59*08_A220G

82 sequences assigned
14 (17.1%) exact matches, in which:
14 unique CDR3
4 unique J



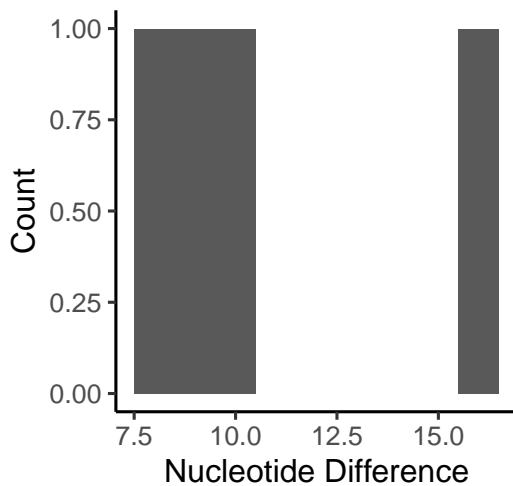
IGHV4-61*01

29 sequences assigned
No exact matches.



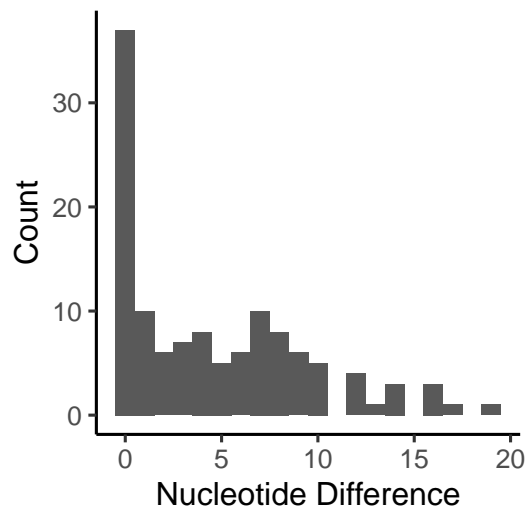
IGHV4/OR15-8*02

6 sequences assigned
No exact matches.



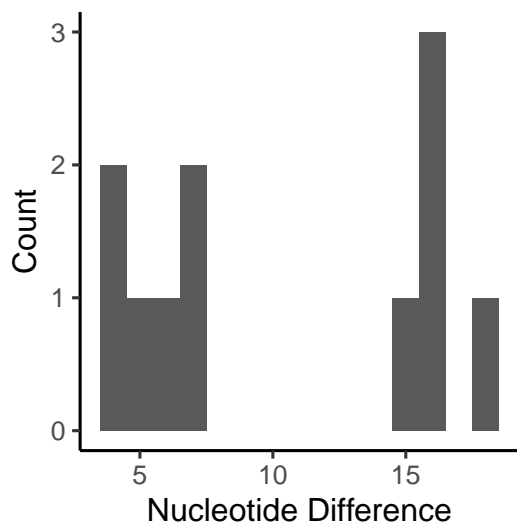
IGHV5-51*03

123 sequences assigned
37 (30.1%) exact matches, in which:
34 unique CDR3
6 unique J



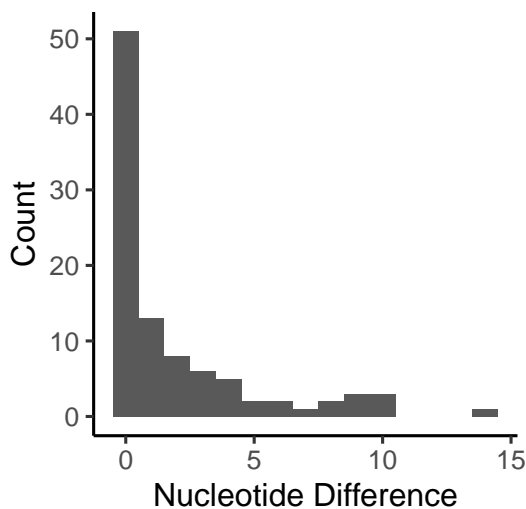
IGHV4-61*08

12 sequences assigned
No exact matches.



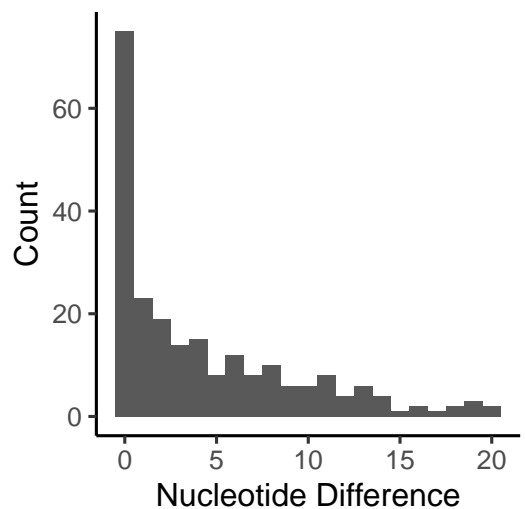
IGHV5-10-1*03

97 sequences assigned
51 (52.6%) exact matches, in which:
44 unique CDR3
4 unique J



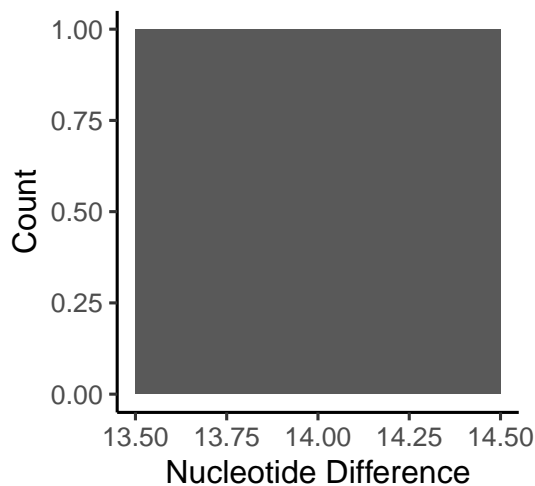
IGHV6-1*01

231 sequences assigned
75 (32.5%) exact matches, in which:
73 unique CDR3
5 unique J



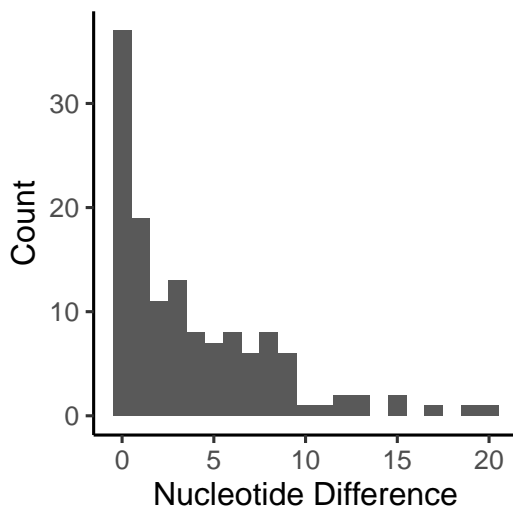
IGHV1/OR15-2*02

1 sequences assigned
No exact matches.



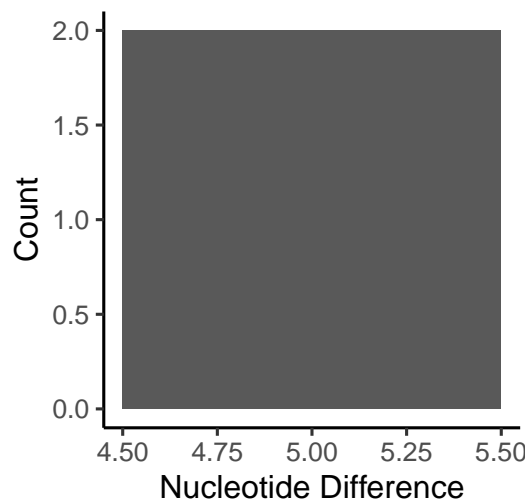
IGHV5-51*01

142 sequences assigned
37 (26.1%) exact matches, in which:
36 unique CDR3
5 unique J



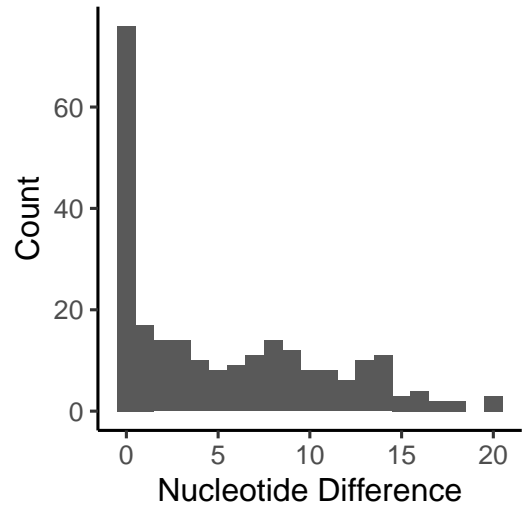
IGHV3/OR16-9*01

2 sequences assigned
No exact matches.



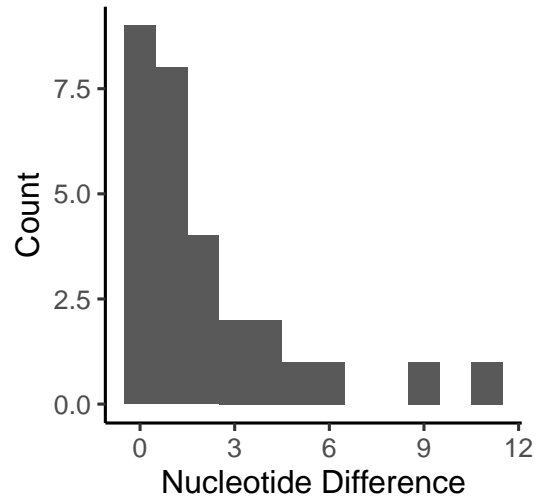
IGHV7-4-1*02

251 sequences assigned
76 (30.3%) exact matches, in which:
69 unique CDR3
5 unique J



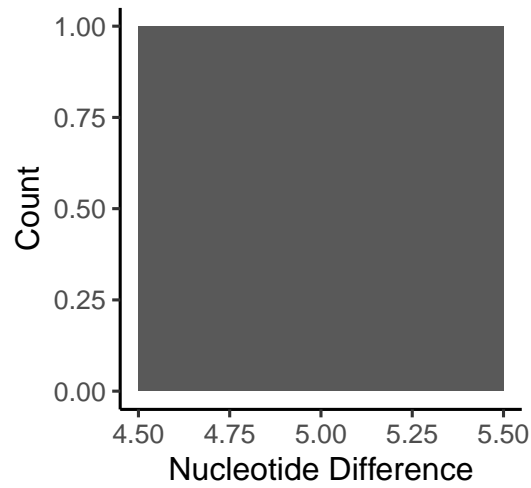
IGHV7-4-1*02_A200T

30 sequences assigned
9 (30%) exact matches, in which:
9 unique CDR3
4 unique J



IGHV7-40*03

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.