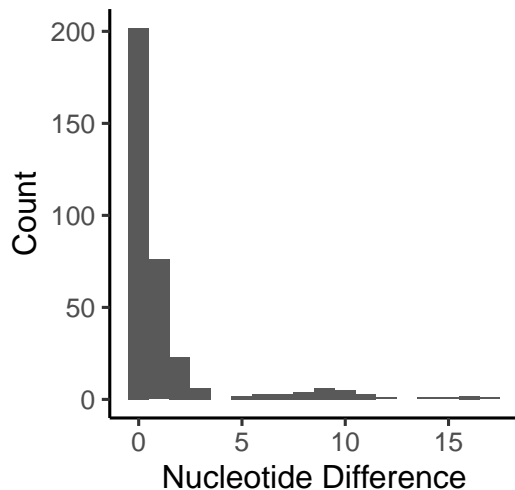


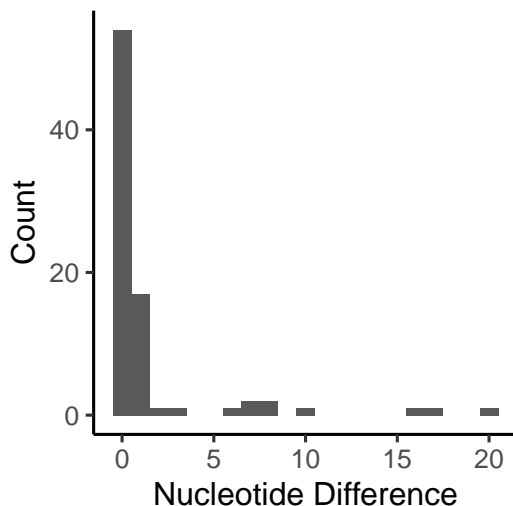
IGHV1-2*04

341 sequences assigned
202 (59.2%) exact matches, in which:
196 unique CDR3
6 unique J



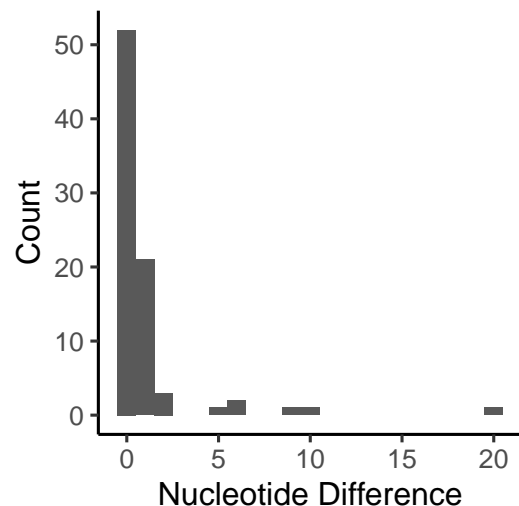
IGHV1-24*01

115 sequences assigned
54 (47%) exact matches, in which:
53 unique CDR3
6 unique J



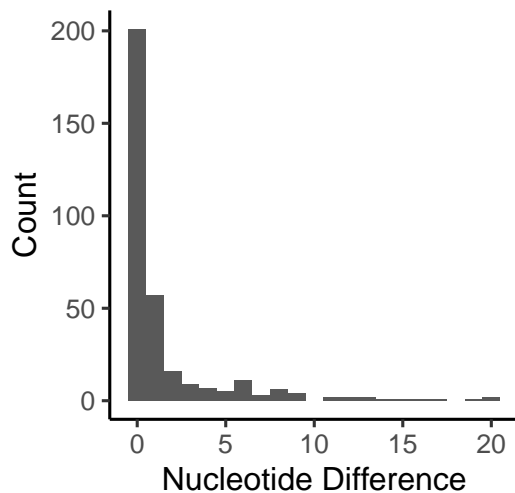
IGHV1-46*03

83 sequences assigned
52 (62.7%) exact matches, in which:
51 unique CDR3
5 unique J



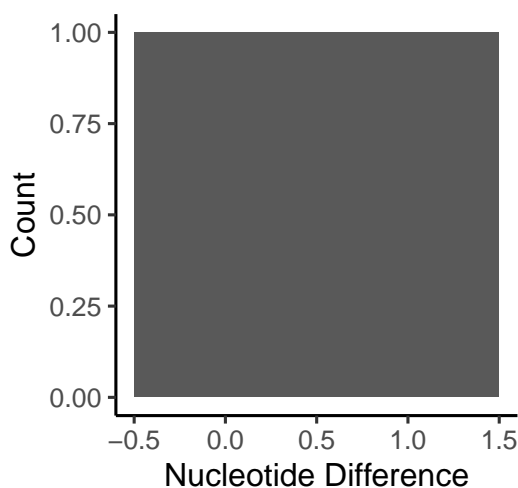
IGHV1-3*01_05

342 sequences assigned
201 (58.8%) exact matches, in which:
183 unique CDR3
6 unique J



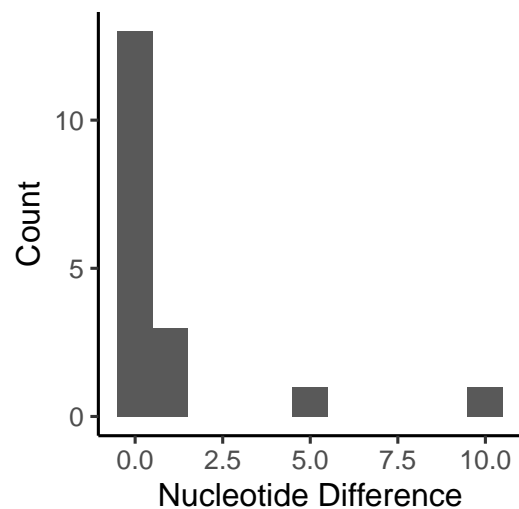
IGHV1-45*02

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



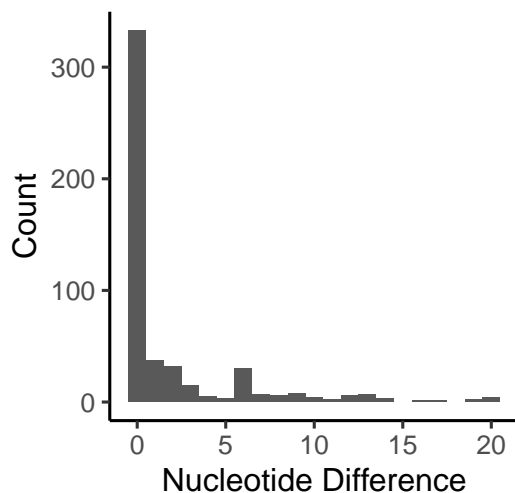
IGHV1-58*02

18 sequences assigned
13 (72.2%) exact matches, in which:
13 unique CDR3
3 unique J



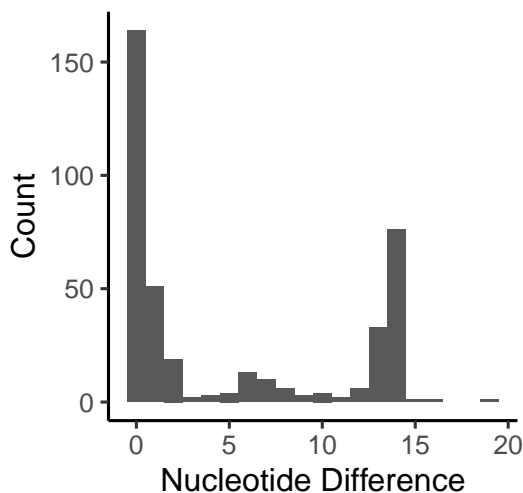
IGHV1-18*01

517 sequences assigned
333 (64.4%) exact matches, in which:
317 unique CDR3
6 unique J



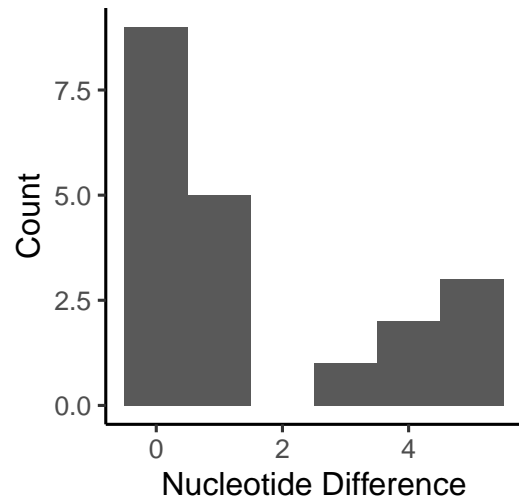
IGHV1-46*01

400 sequences assigned
164 (41%) exact matches, in which:
161 unique CDR3
5 unique J



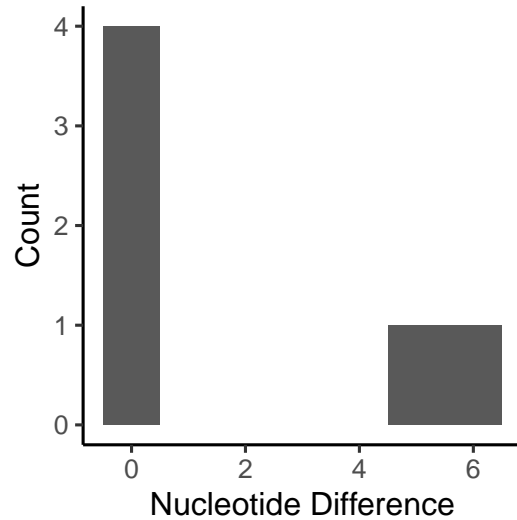
IGHV1-58*01_03

20 sequences assigned
9 (45%) exact matches, in which:
9 unique CDR3
3 unique J



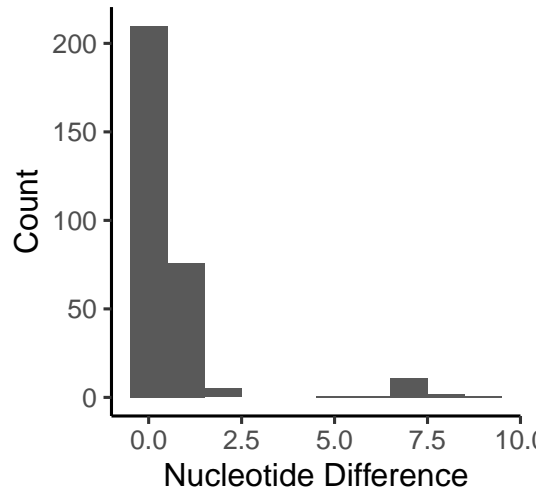
IGHV1-69-2*01

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
1 unique J



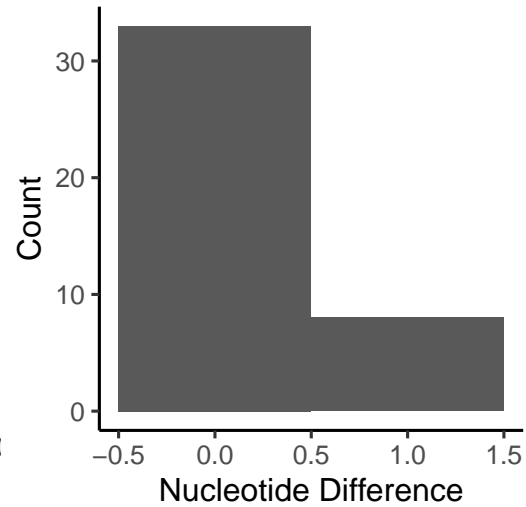
IGHV1-69*08_C191T

312 sequences assigned
210 (67.3%) exact matches, in which:
201 unique CDR3
5 unique J



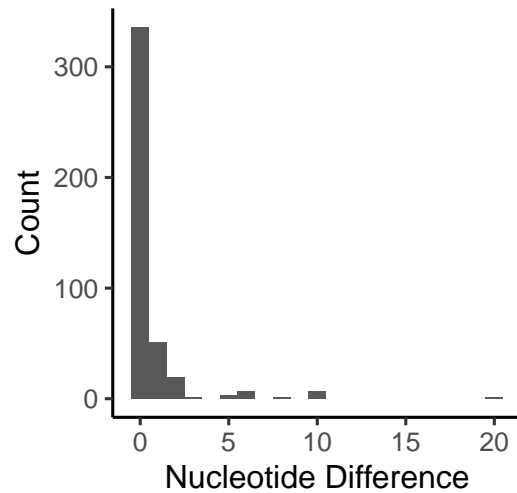
IGHV2-70*01

41 sequences assigned
33 (80.5%) exact matches, in which:
29 unique CDR3
3 unique J



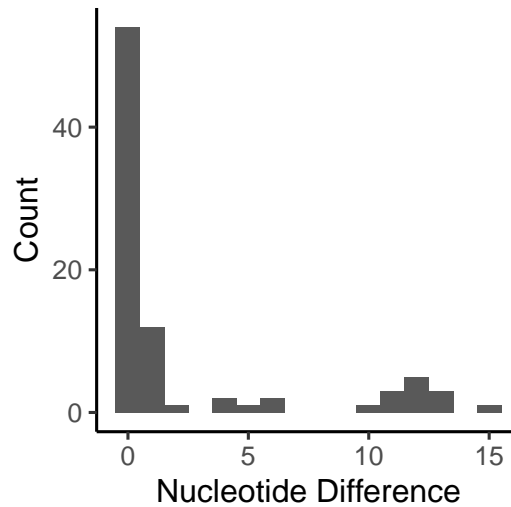
IGHV1-69*01_12_13

433 sequences assigned
336 (77.6%) exact matches, in which:
331 unique CDR3
6 unique J



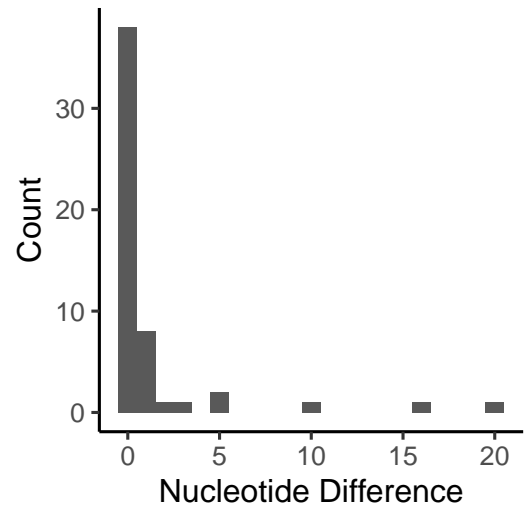
IGHV2-5*02

107 sequences assigned
54 (50.5%) exact matches, in which:
53 unique CDR3
5 unique J



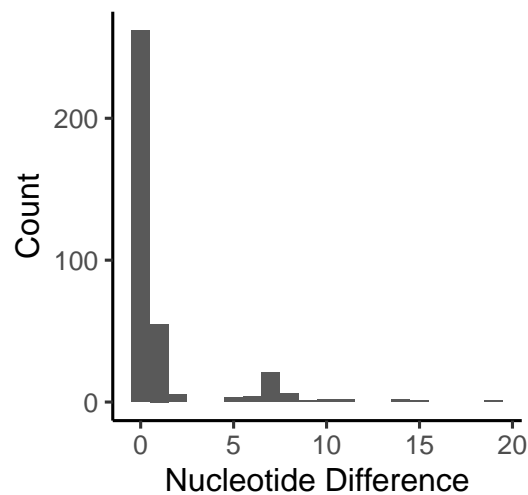
IGHV2-70*11_15

55 sequences assigned
38 (69.1%) exact matches, in which:
31 unique CDR3
3 unique J



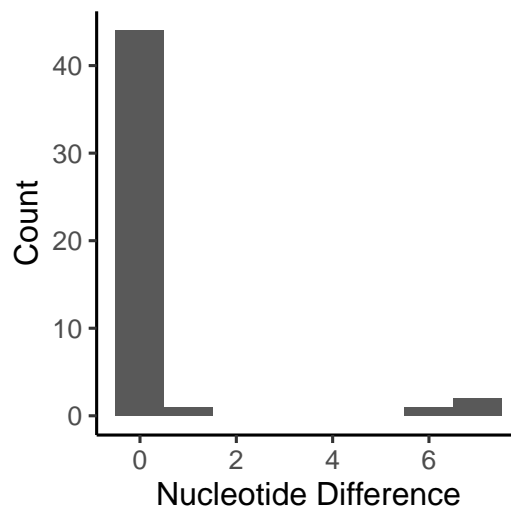
IGHV1-69*06_14

365 sequences assigned
262 (71.8%) exact matches, in which:
257 unique CDR3
6 unique J



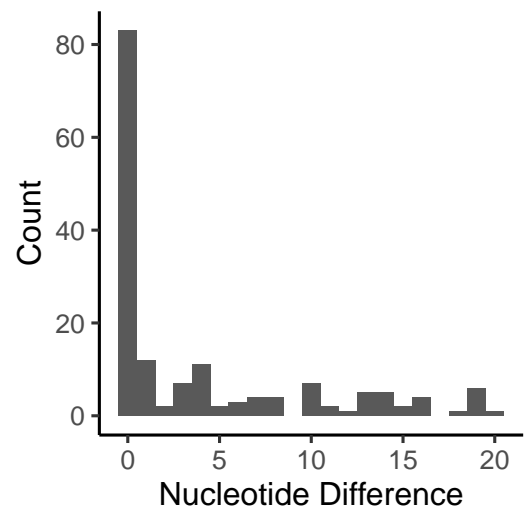
IGHV2-26*01

48 sequences assigned
44 (91.7%) exact matches, in which:
39 unique CDR3
4 unique J



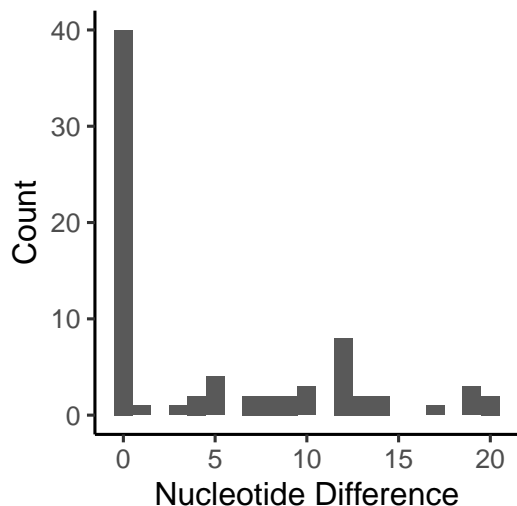
IGHV3-7*03

187 sequences assigned
83 (44.4%) exact matches, in which:
51 unique CDR3
4 unique J



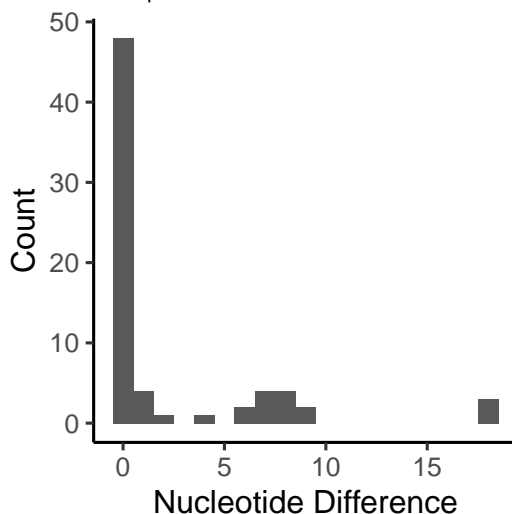
IGHV3-7*04

93 sequences assigned
40 (43%) exact matches, in which:
24 unique CDR3
4 unique J



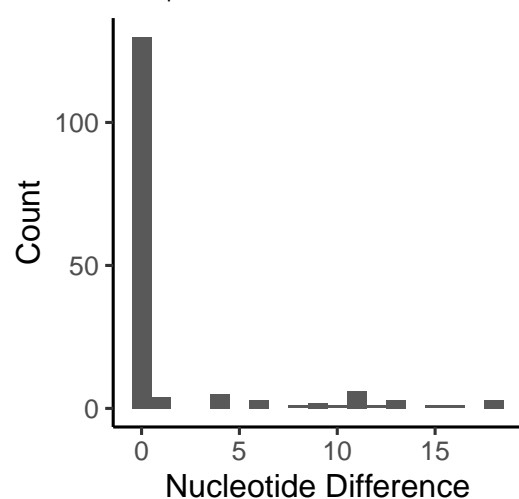
IGHV3-11*03_05

72 sequences assigned
48 (66.7%) exact matches, in which:
34 unique CDR3
4 unique J



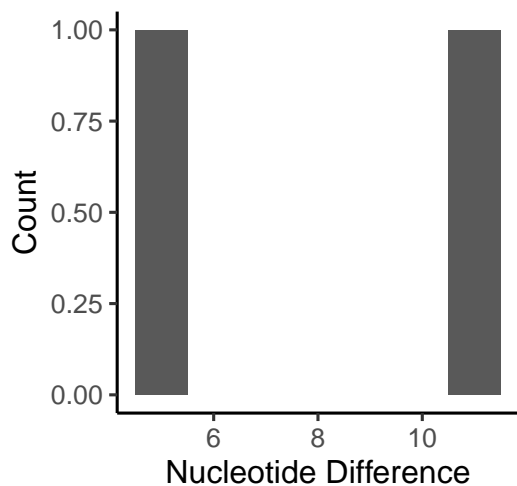
IGHV3-15*07

205 sequences assigned
130 (63.4%) exact matches, in which:
89 unique CDR3
5 unique J



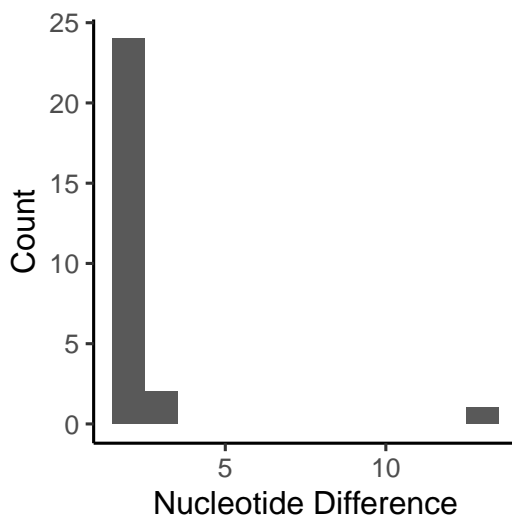
IGHV3-9*01

2 sequences assigned
No exact matches.



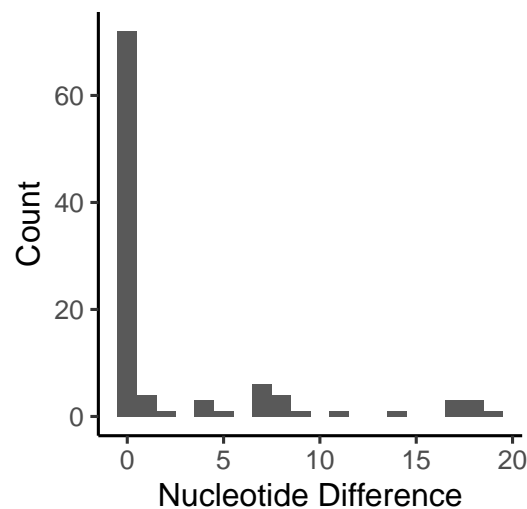
IGHV3-13*01

27 sequences assigned
No exact matches.



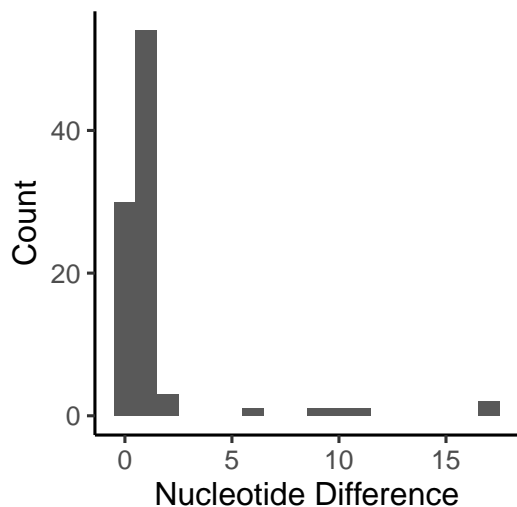
IGHV3-15*01_02

108 sequences assigned
72 (66.7%) exact matches, in which:
50 unique CDR3
5 unique J



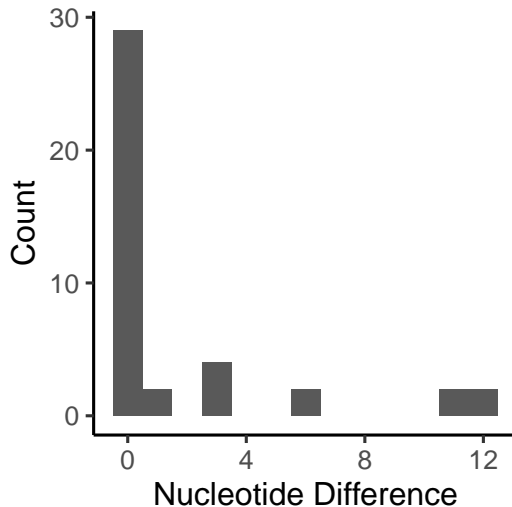
IGHV3-11*06

99 sequences assigned
30 (30.3%) exact matches, in which:
19 unique CDR3
3 unique J



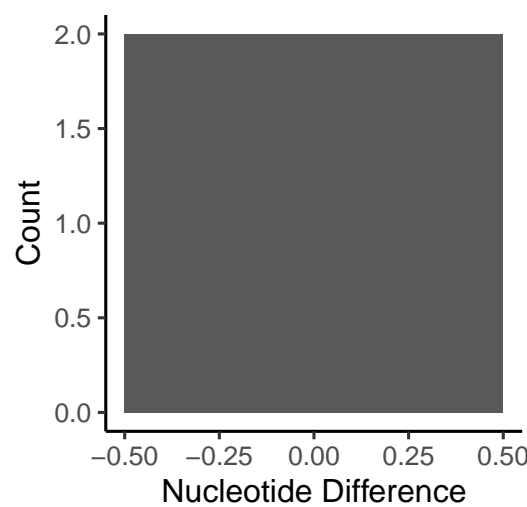
IGHV3-13*04

41 sequences assigned
29 (70.7%) exact matches, in which:
18 unique CDR3
4 unique J



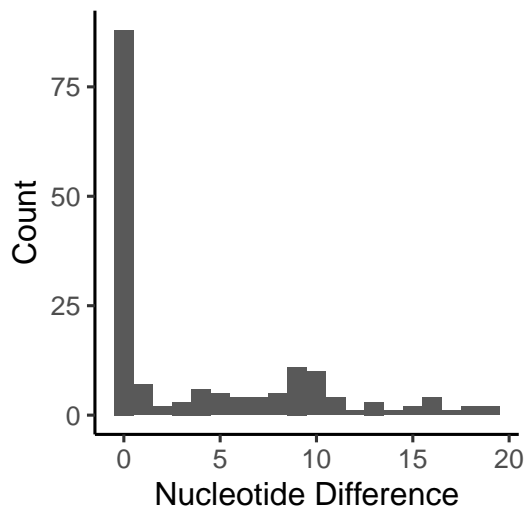
IGHV3-19*01

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



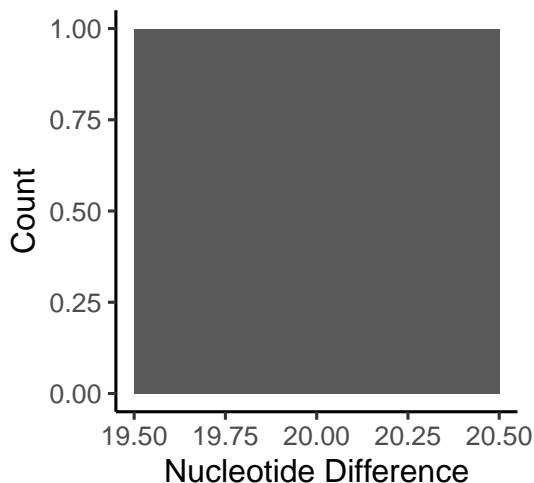
IGHV3-20*03_04

171 sequences assigned
88 (51.5%) exact matches, in which:
51 unique CDR3
4 unique J



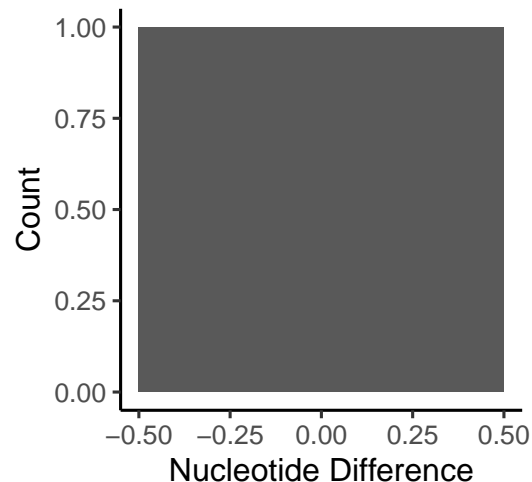
IGHV3-30-3*01

3 sequences assigned
No exact matches.



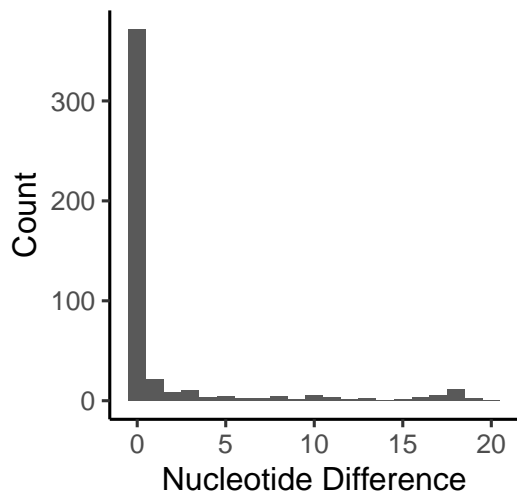
IGHV3-47*02

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



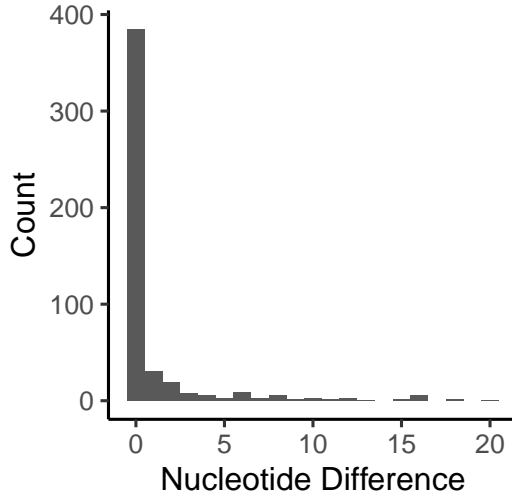
IGHV3-21*01_02

486 sequences assigned
372 (76.5%) exact matches, in which:
226 unique CDR3
6 unique J



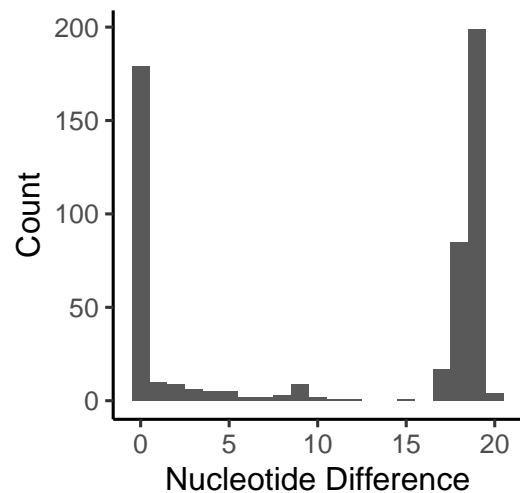
IGHV3-33*01

502 sequences assigned
385 (76.7%) exact matches, in which:
240 unique CDR3
6 unique J



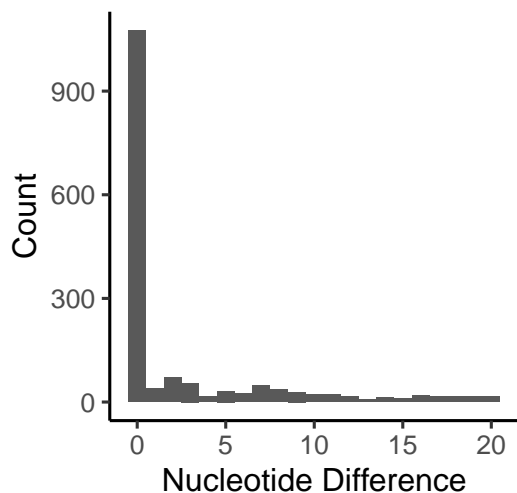
IGHV3-48*01

554 sequences assigned
179 (32.3%) exact matches, in which:
111 unique CDR3
6 unique J



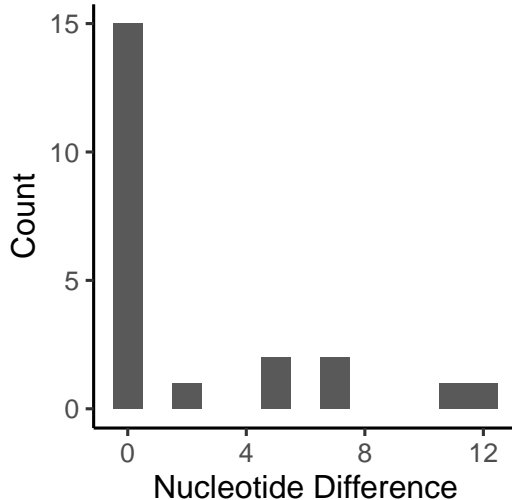
IGHV3-23*01_04

1722 sequences assigned
1076 (62.5%) exact matches, in which:
636 unique CDR3
6 unique J



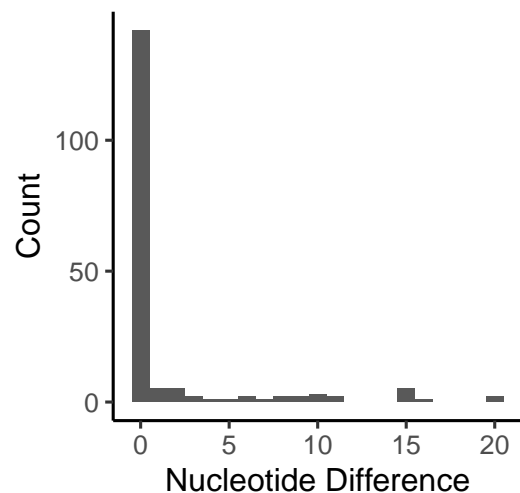
IGHV3-43*01

23 sequences assigned
15 (65.2%) exact matches, in which:
10 unique CDR3
4 unique J



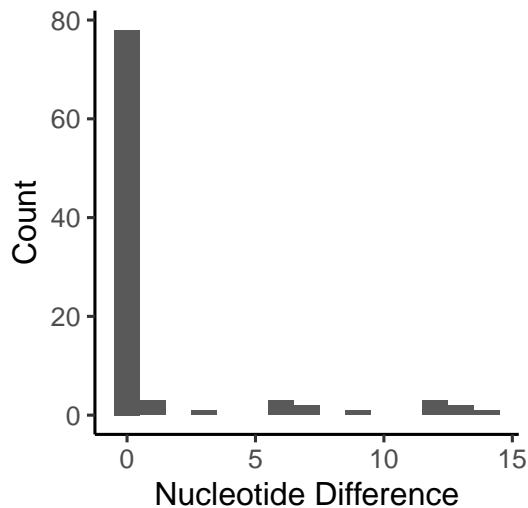
IGHV3-48*02

246 sequences assigned
142 (57.7%) exact matches, in which:
80 unique CDR3
4 unique J



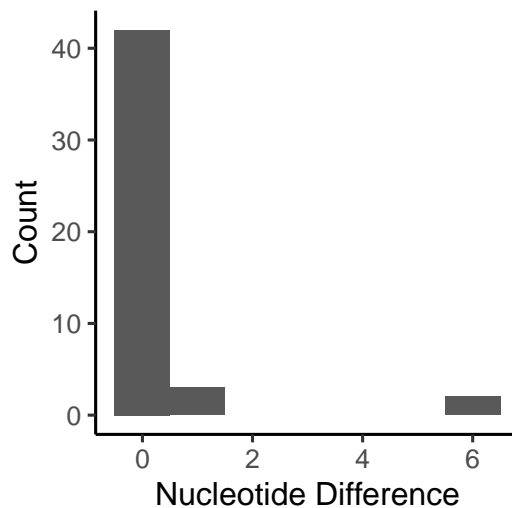
IGHV3-49*03_05

94 sequences assigned
78 (83%) exact matches, in which:
55 unique CDR3
5 unique J



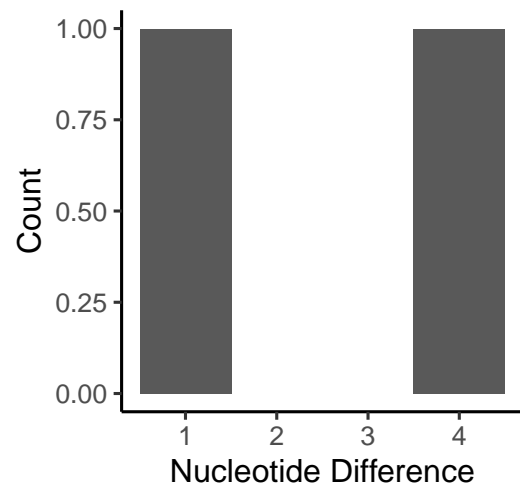
IGHV3-53*04

47 sequences assigned
42 (89.4%) exact matches, in which:
26 unique CDR3
5 unique J



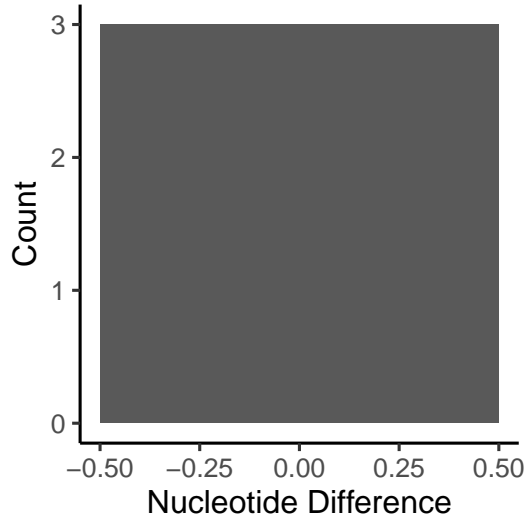
IGHV3-64*04

2 sequences assigned
No exact matches.



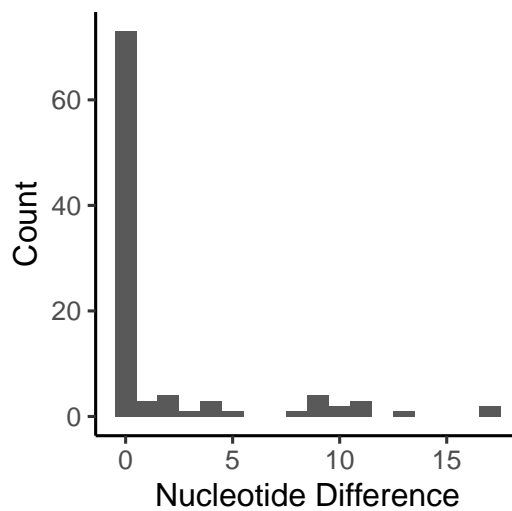
IGHV3-52*02

3 sequences assigned
3 (100%) exact matches, in which:
2 unique CDR3
1 unique J



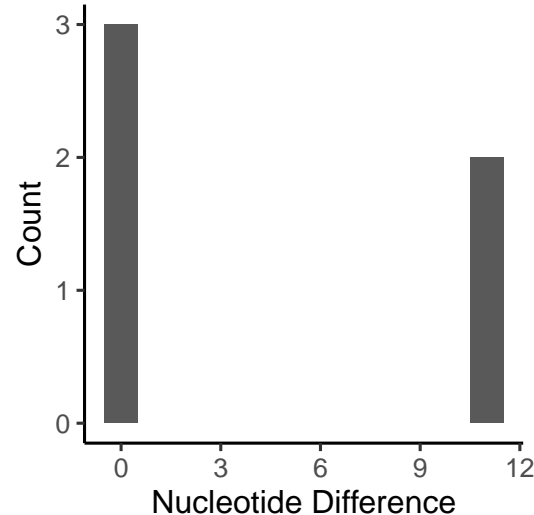
IGHV3-53*01_02

100 sequences assigned
73 (73%) exact matches, in which:
44 unique CDR3
5 unique J



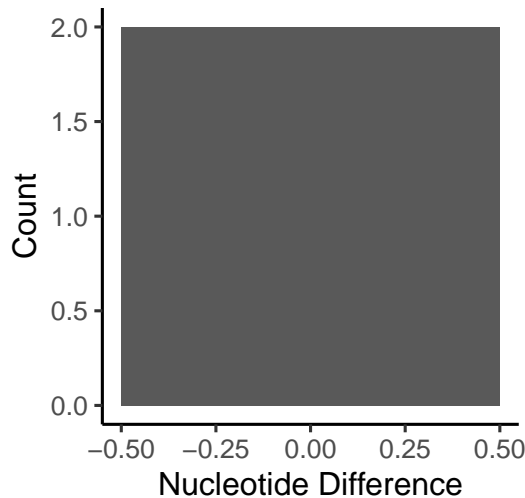
IGHV3-64*02_07

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



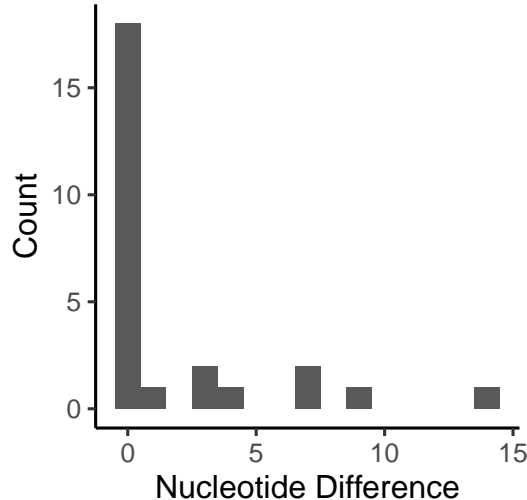
IGHV3-52*01_03

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



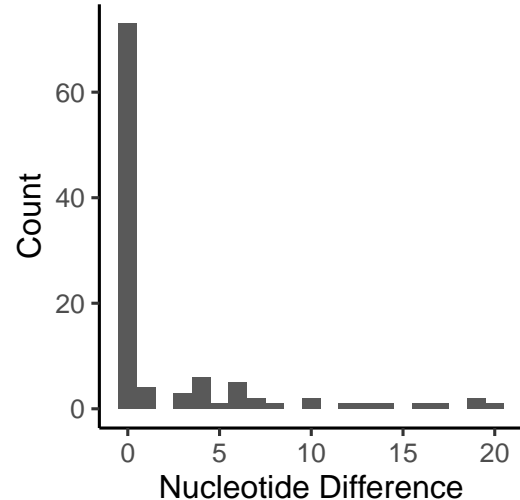
IGHV3-64*01

26 sequences assigned
18 (69.2%) exact matches, in which:
12 unique CDR3
3 unique J



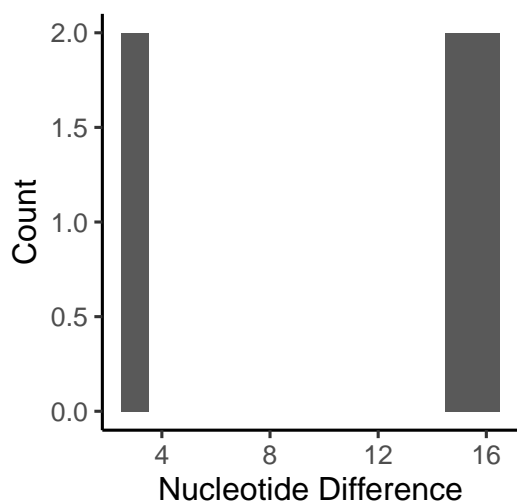
IGHV3-66*01

106 sequences assigned
73 (68.9%) exact matches, in which:
47 unique CDR3
4 unique J



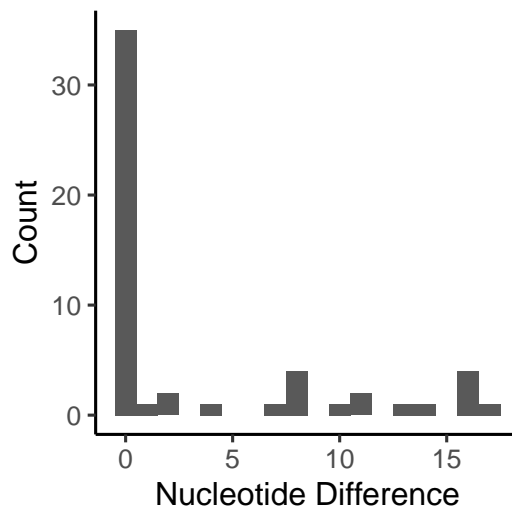
IGHV3-69-1*01

6 sequences assigned
No exact matches.



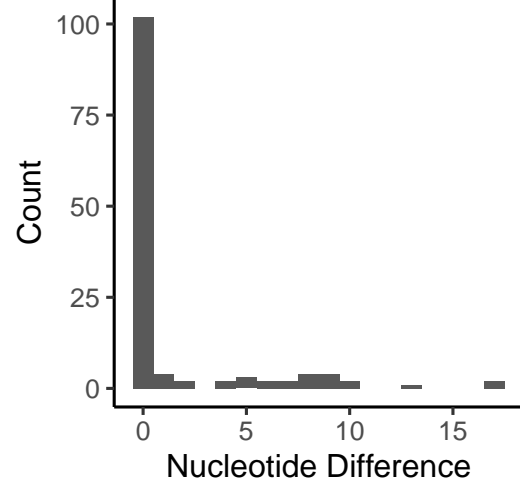
IGHV3-73*01_02

54 sequences assigned
35 (64.8%) exact matches, in which:
20 unique CDR3
4 unique J



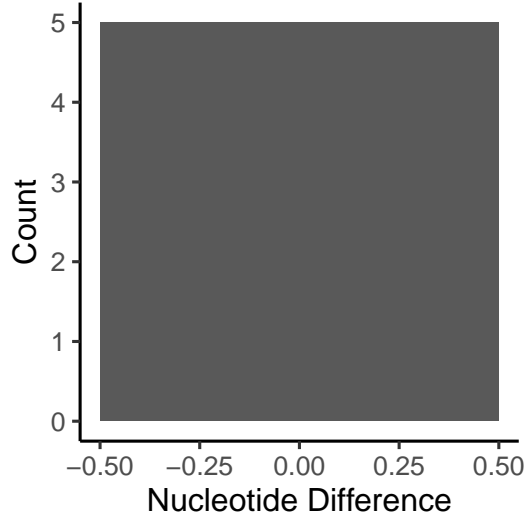
IGHV3-64D*06

147 sequences assigned
102 (69.4%) exact matches, in which:
60 unique CDR3
5 unique J



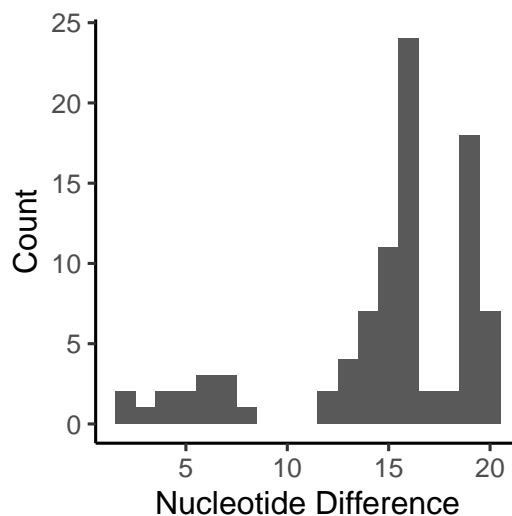
IGHV3-69-1*02

5 sequences assigned
5 (100%) exact matches, in which:
2 unique CDR3
1 unique J



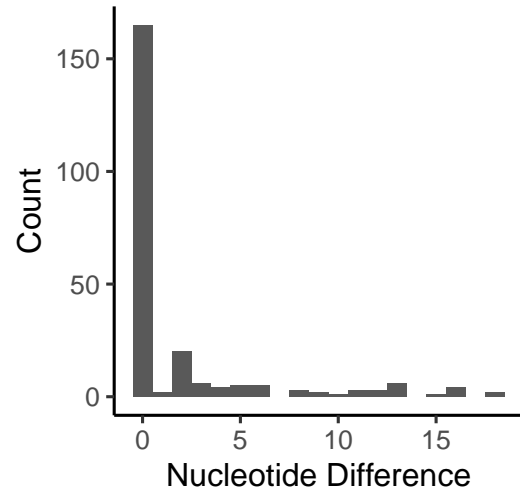
IGHV3-74*03

102 sequences assigned
No exact matches.



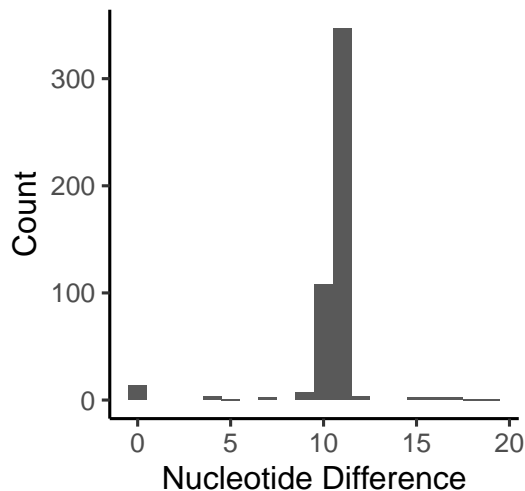
IGHV4-4*02_03

233 sequences assigned
165 (70.8%) exact matches, in which:
145 unique CDR3
6 unique J



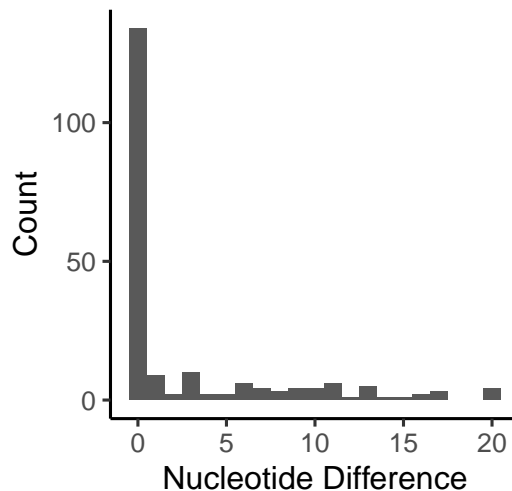
IGHV3-72*01

494 sequences assigned
14 (2.8%) exact matches, in which:
10 unique CDR3
3 unique J



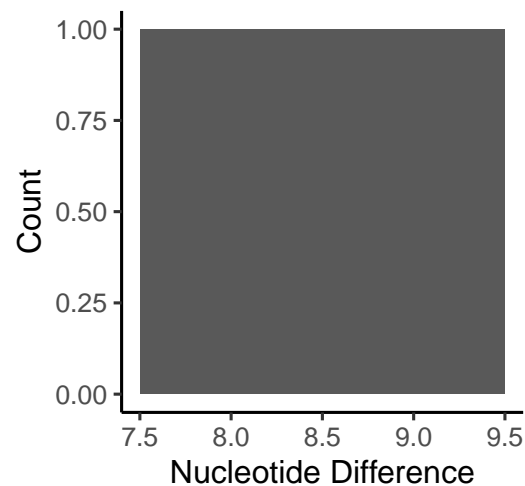
IGHV3-74*01_02

213 sequences assigned
134 (62.9%) exact matches, in which:
74 unique CDR3
5 unique J



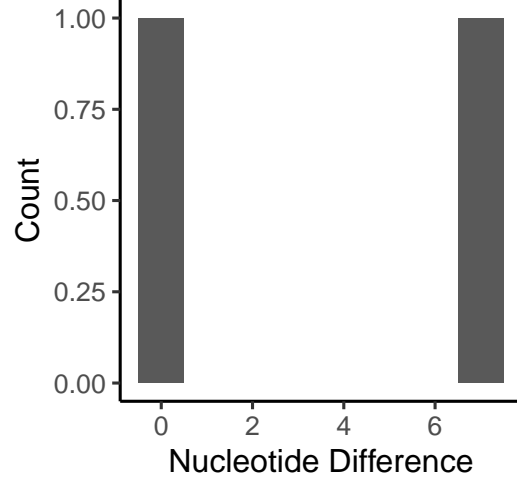
IGHV4-28*03

2 sequences assigned
No exact matches.



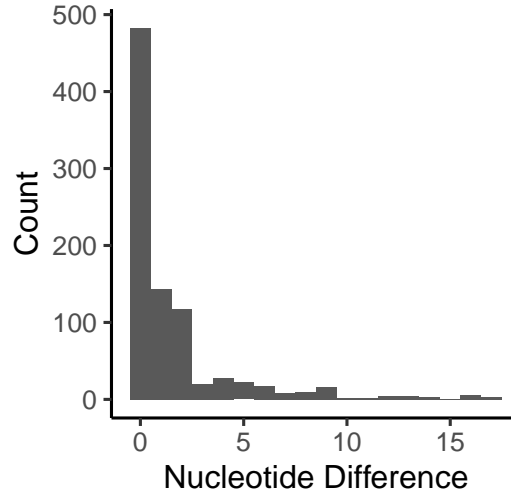
IGHV4-28*01_07

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



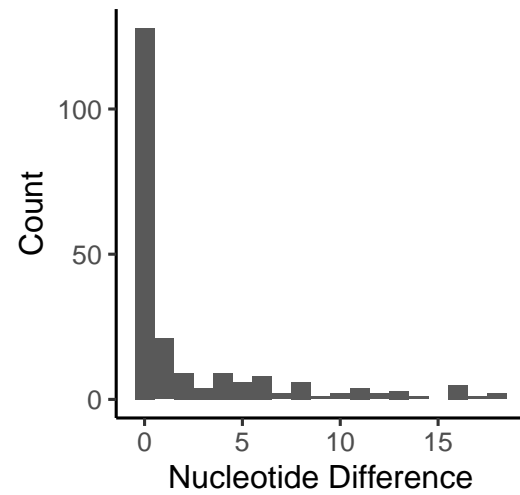
IGHV4-34*01_02

895 sequences assigned
483 (54%) exact matches, in which:
405 unique CDR3
6 unique J



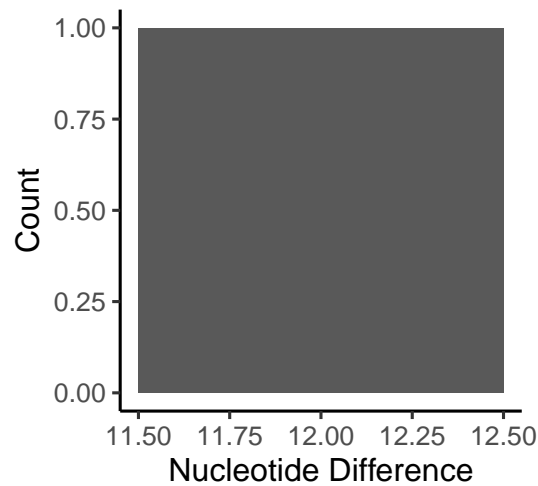
IGHV4-59*08

219 sequences assigned
128 (58.4%) exact matches, in which:
120 unique CDR3
6 unique J



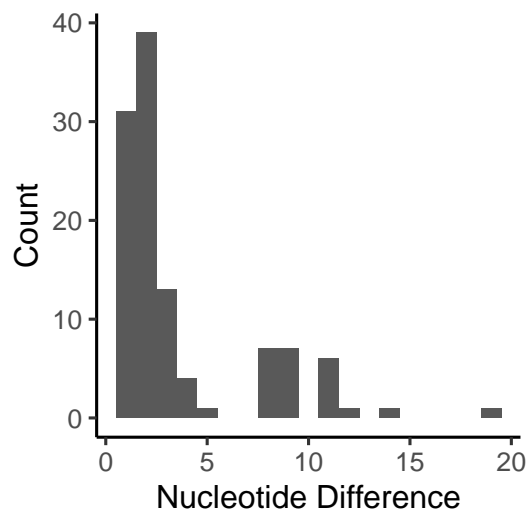
IGHV4-30-2*03

1 sequences assigned
No exact matches.



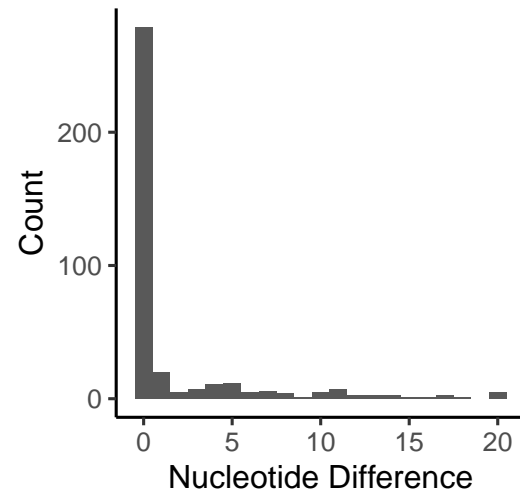
IGHV4-39*07

112 sequences assigned
No exact matches.



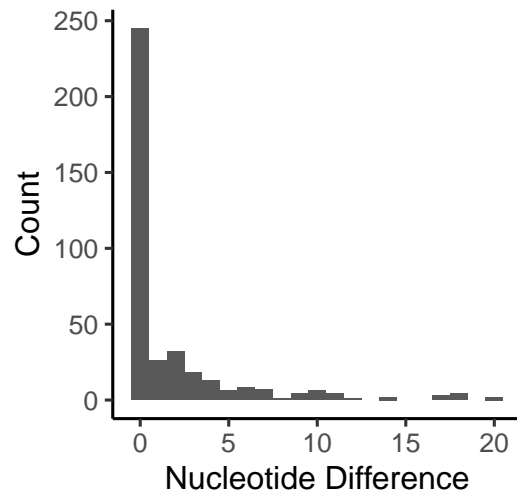
IGHV4-59*02_G88A

395 sequences assigned
279 (70.6%) exact matches, in which:
273 unique CDR3
6 unique J



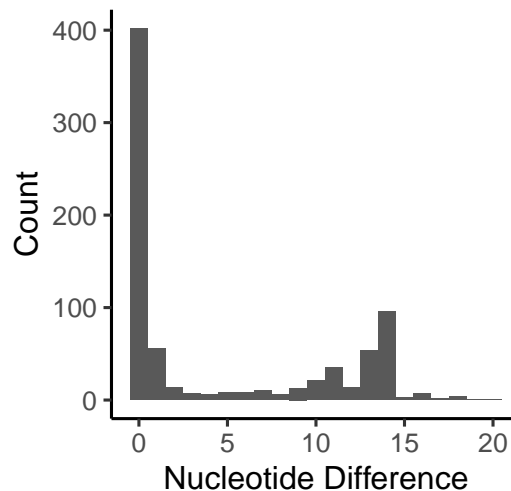
IGHV4-31*02

403 sequences assigned
245 (60.8%) exact matches, in which:
222 unique CDR3
6 unique J



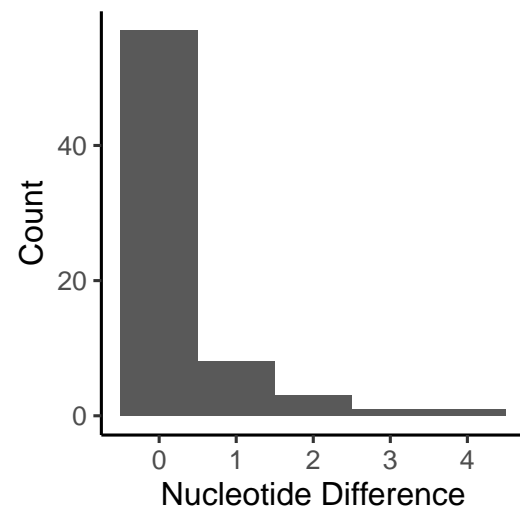
IGHV4-39*02_C258G

780 sequences assigned
402 (51.5%) exact matches, in which:
373 unique CDR3
6 unique J



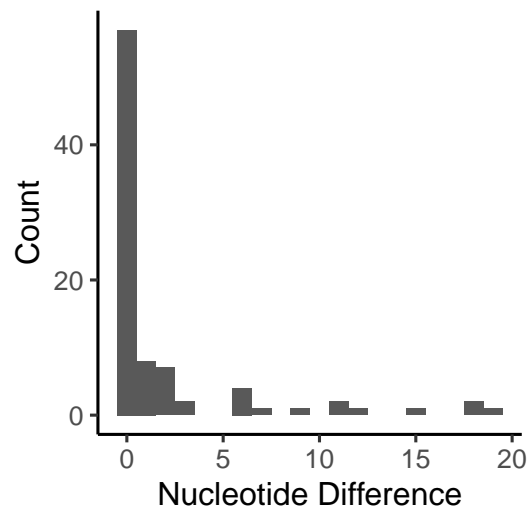
IGHV4-59*12_C300T

70 sequences assigned
57 (81.4%) exact matches, in which:
56 unique CDR3
6 unique J



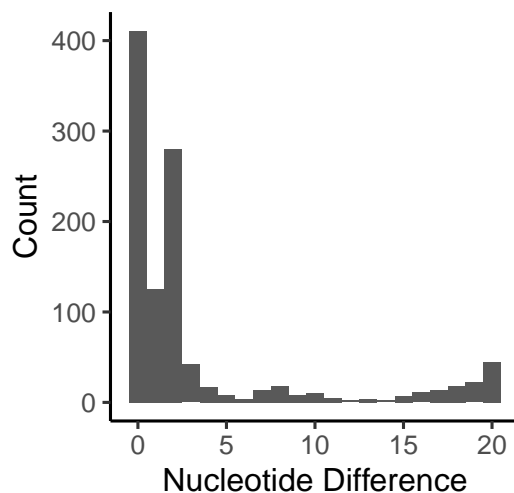
IGHV4-61*01

87 sequences assigned
57 (65.5%) exact matches, in which:
55 unique CDR3
6 unique J



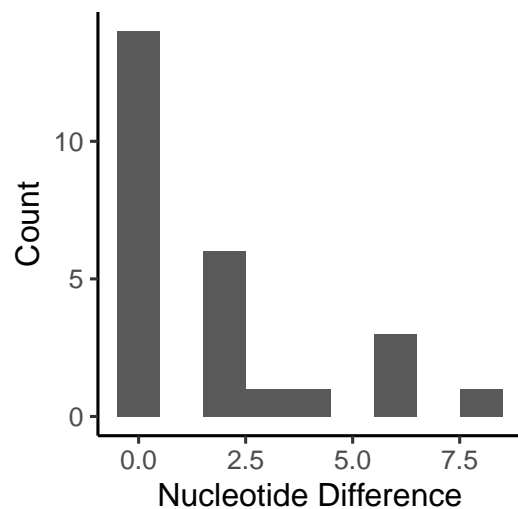
IGHV5-51*07_A128G

1082 sequences assigned
411 (38%) exact matches, in which:
299 unique CDR3
6 unique J



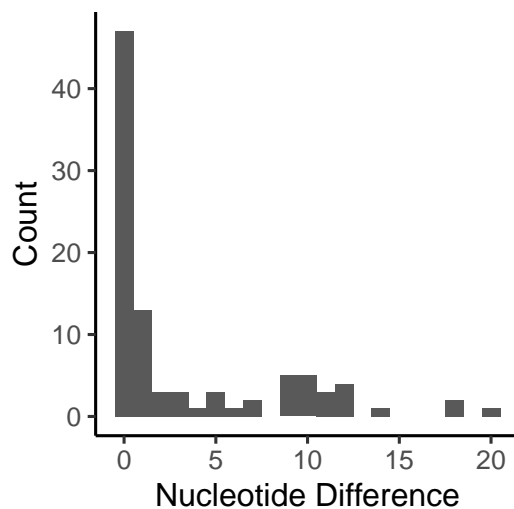
IGHV4-61*01_T288C_G2!

27 sequences assigned
14 (51.9%) exact matches, in which:
11 unique CDR3
4 unique J



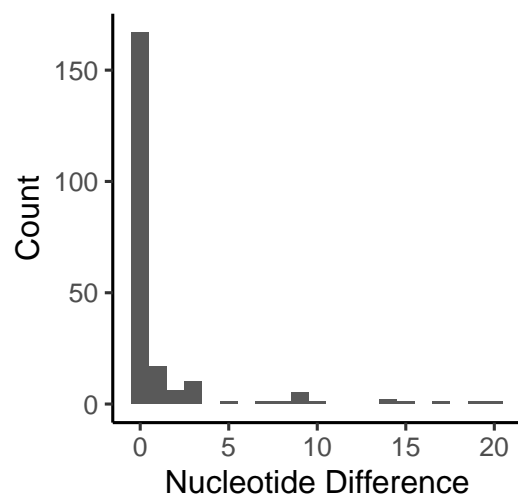
IGHV6-1*01_02

96 sequences assigned
47 (49%) exact matches, in which:
47 unique CDR3
4 unique J



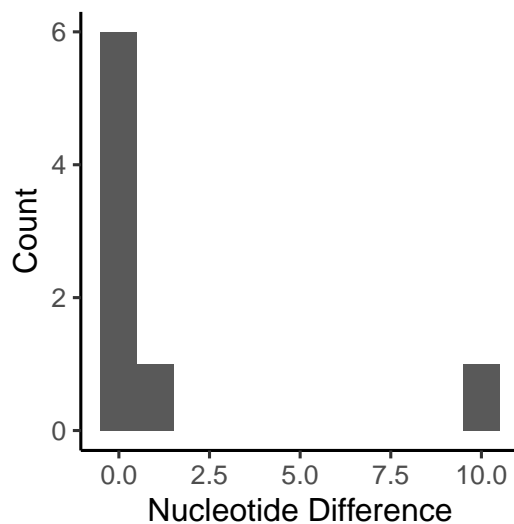
IGHV5-10-1*01_03

216 sequences assigned
167 (77.3%) exact matches, in which:
132 unique CDR3
6 unique J



IGHV7-4-1*01

8 sequences assigned
6 (75%) exact matches, in which:
6 unique CDR3
3 unique J





Warning – no inferred sequences found.