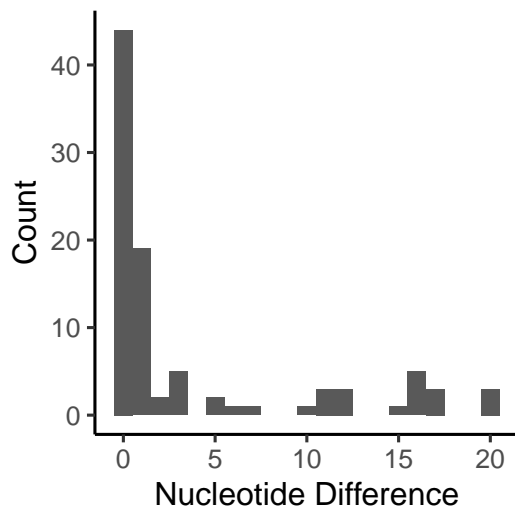


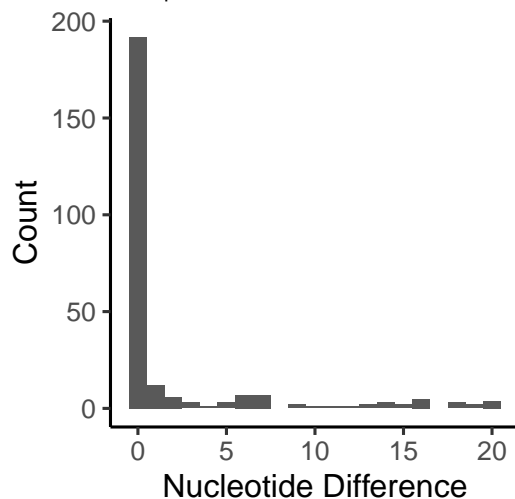
IGHV1-2*04

104 sequences assigned
44 (42.3%) exact matches, in which:
37 unique CDR3
5 unique J



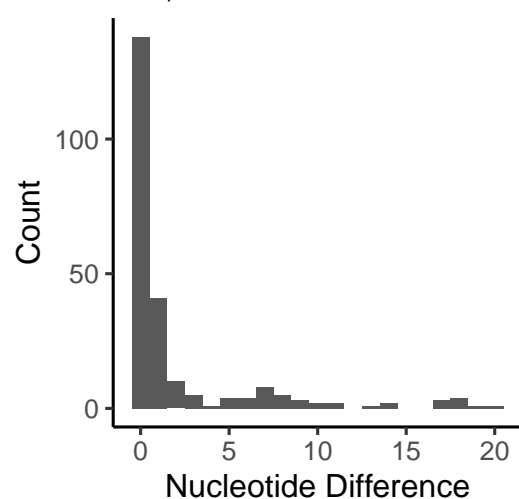
IGHV1-18*01

297 sequences assigned
192 (64.6%) exact matches, in which:
190 unique CDR3
6 unique J



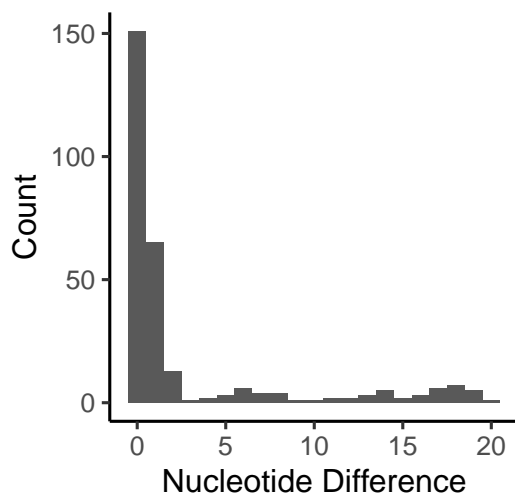
IGHV1-46*01

270 sequences assigned
138 (51.1%) exact matches, in which:
134 unique CDR3
6 unique J



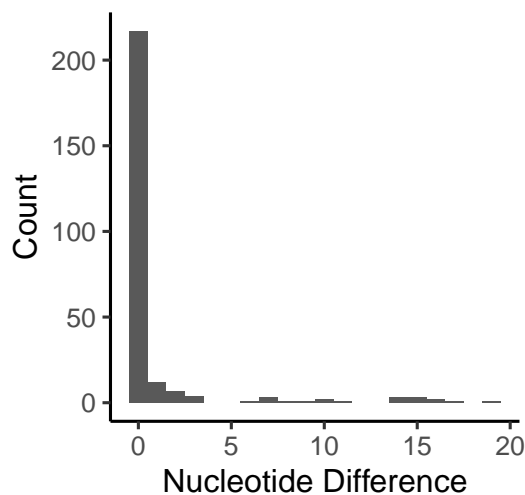
IGHV1-3*01_05

338 sequences assigned
151 (44.7%) exact matches, in which:
134 unique CDR3
6 unique J



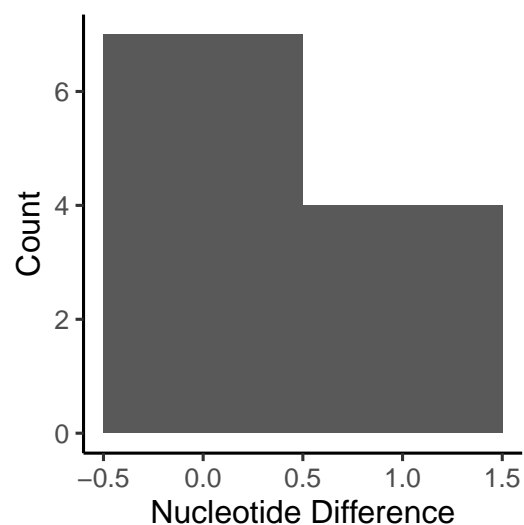
IGHV1-18*04

286 sequences assigned
217 (75.9%) exact matches, in which:
214 unique CDR3
6 unique J



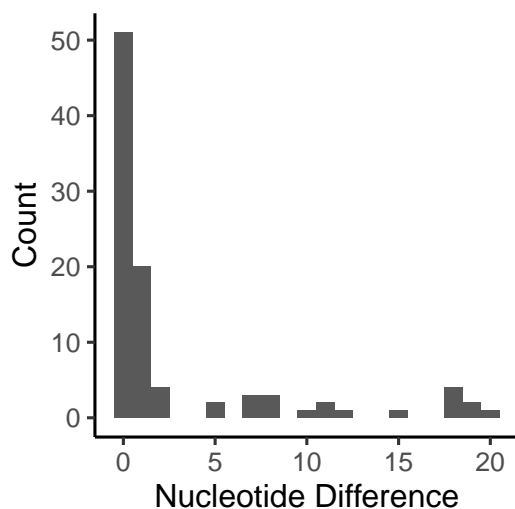
IGHV1-58*02

11 sequences assigned
7 (63.6%) exact matches, in which:
6 unique CDR3
3 unique J



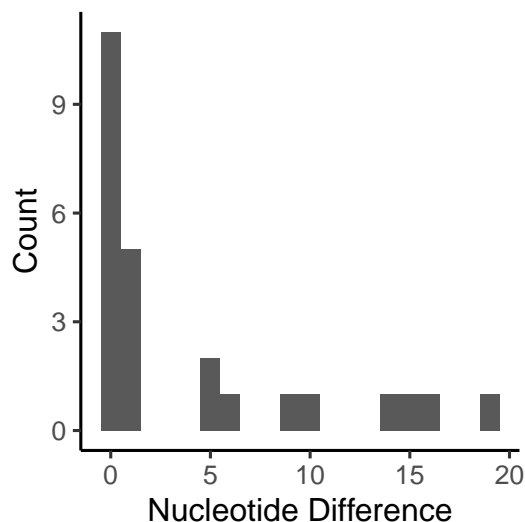
IGHV1-8*01

146 sequences assigned
51 (34.9%) exact matches, in which:
49 unique CDR3
5 unique J



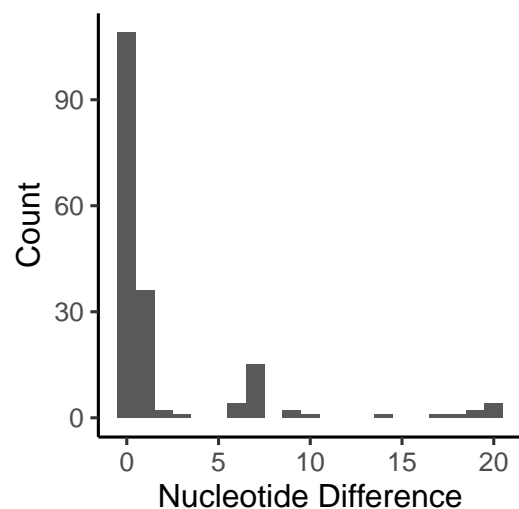
IGHV1-24*01

33 sequences assigned
11 (33.3%) exact matches, in which:
11 unique CDR3
4 unique J



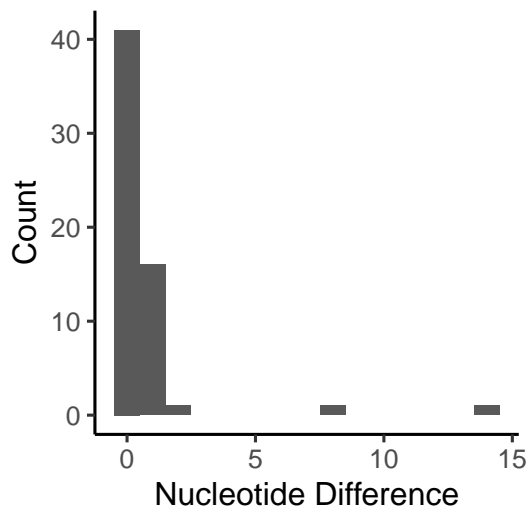
IGHV1-69*04_09

197 sequences assigned
109 (55.3%) exact matches, in which:
107 unique CDR3
6 unique J



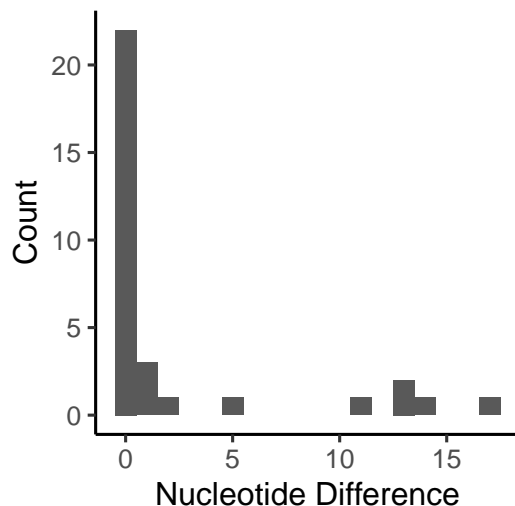
IGHV1-69*08_C191T

67 sequences assigned
41 (61.2%) exact matches, in which:
41 unique CDR3
5 unique J



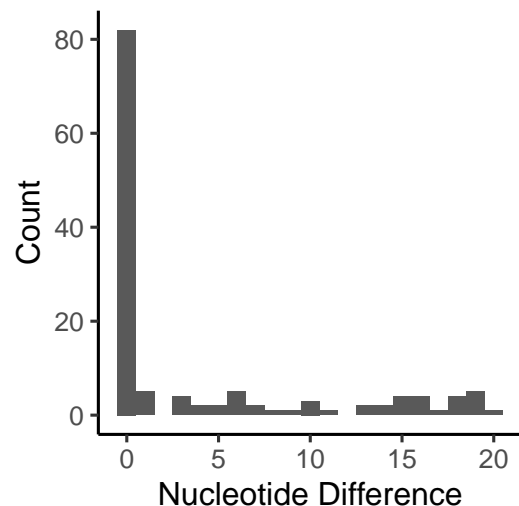
IGHV2-26*01

33 sequences assigned
22 (66.7%) exact matches, in which:
17 unique CDR3
4 unique J



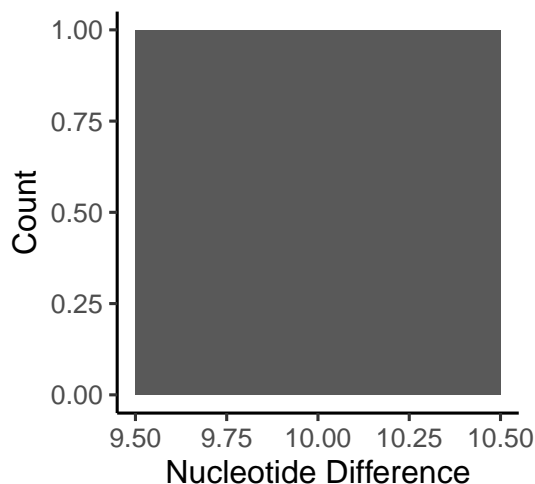
IGHV3-7*01

188 sequences assigned
82 (43.6%) exact matches, in which:
53 unique CDR3
5 unique J



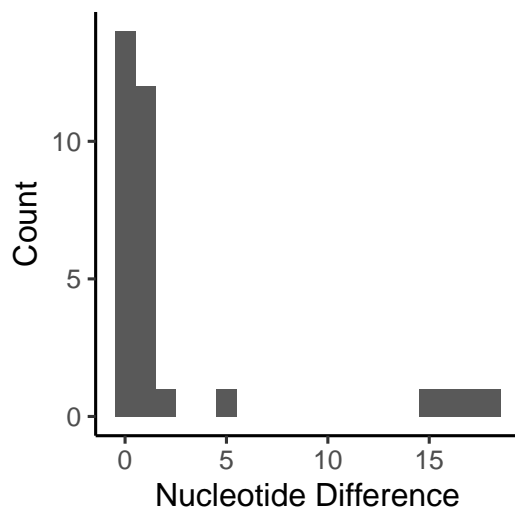
IGHV1-NL1*01

1 sequences assigned
No exact matches.



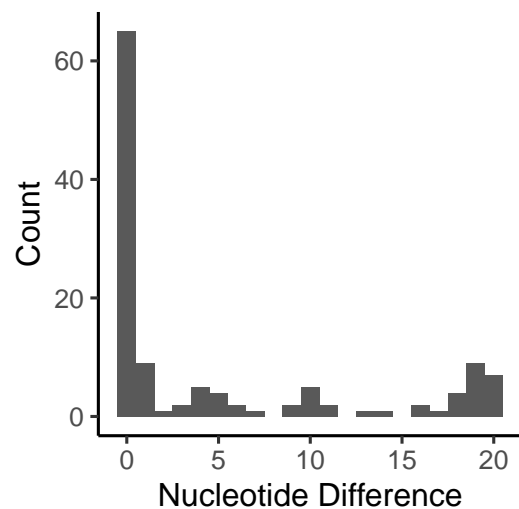
IGHV2-70*11_15

36 sequences assigned
14 (38.9%) exact matches, in which:
12 unique CDR3
4 unique J



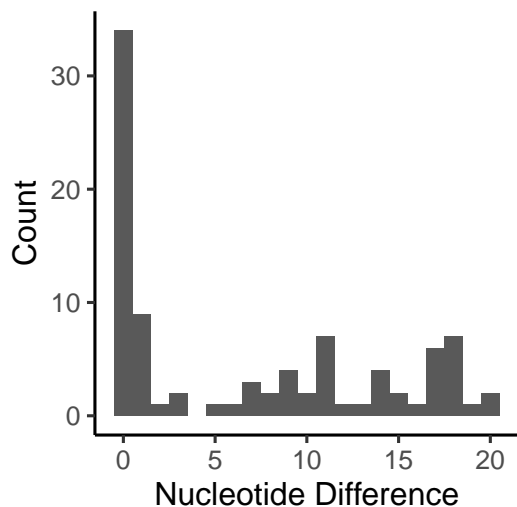
IGHV3-7*03

216 sequences assigned
65 (30.1%) exact matches, in which:
38 unique CDR3
5 unique J



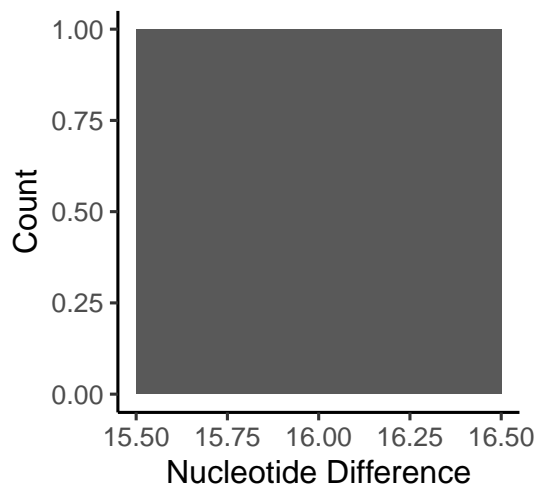
IGHV2-5*02

99 sequences assigned
34 (34.3%) exact matches, in which:
31 unique CDR3
4 unique J



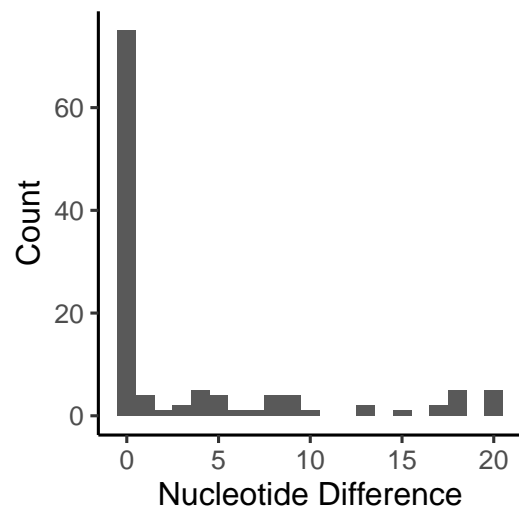
IGHV2-70D*04

1 sequences assigned
No exact matches.



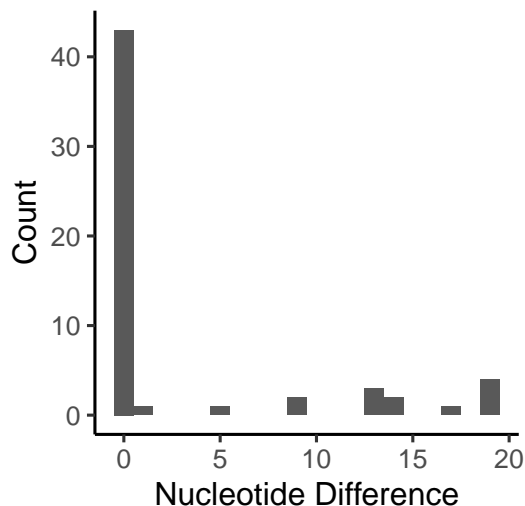
IGHV3-9*01

158 sequences assigned
75 (47.5%) exact matches, in which:
43 unique CDR3
6 unique J



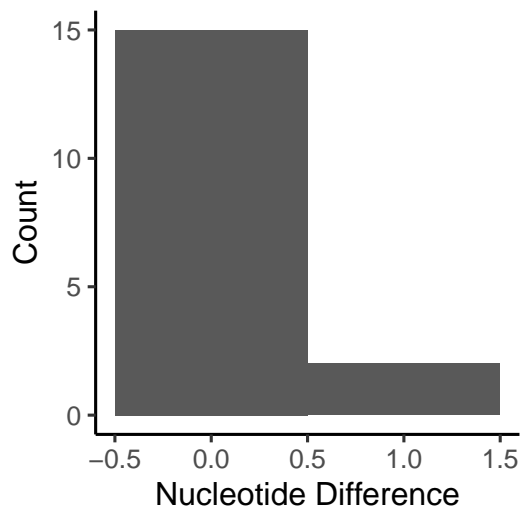
IGHV3-11*01

84 sequences assigned
43 (51.2%) exact matches, in which:
24 unique CDR3
5 unique J



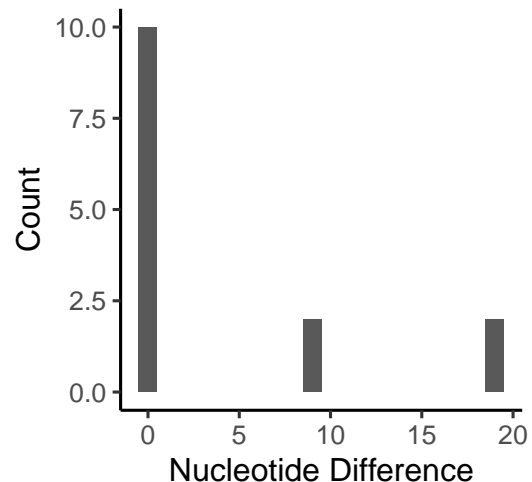
IGHV3-13*05

17 sequences assigned
15 (88.2%) exact matches, in which:
8 unique CDR3
3 unique J



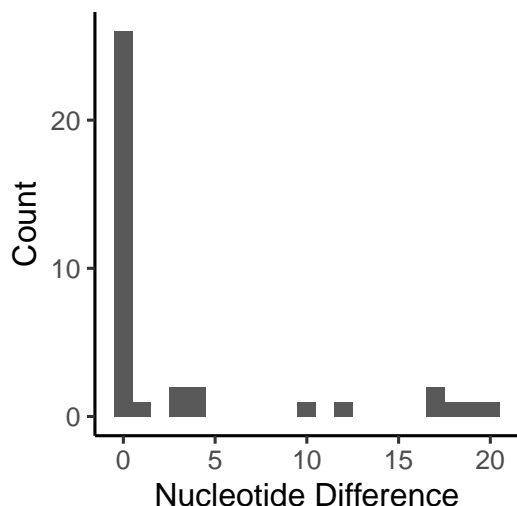
IGHV3-20*01_02

18 sequences assigned
10 (55.6%) exact matches, in which:
5 unique CDR3
3 unique J



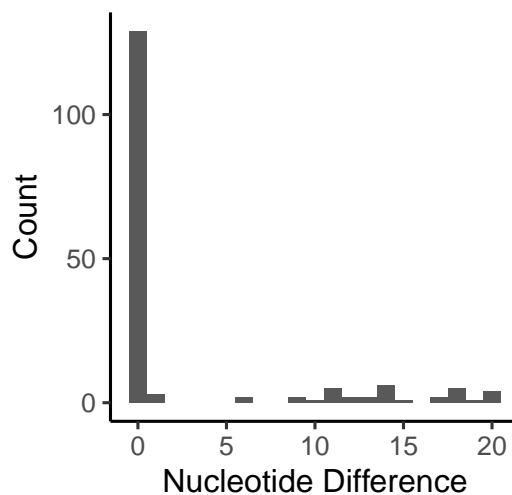
IGHV3-11*06

71 sequences assigned
26 (36.6%) exact matches, in which:
15 unique CDR3
4 unique J



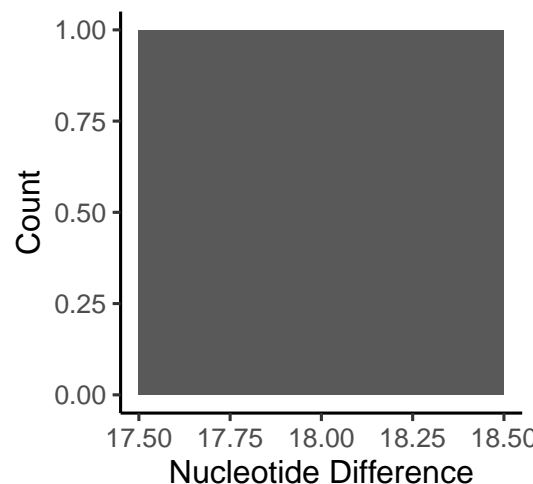
IGHV3-15*01_02

201 sequences assigned
129 (64.2%) exact matches, in which:
74 unique CDR3
6 unique J



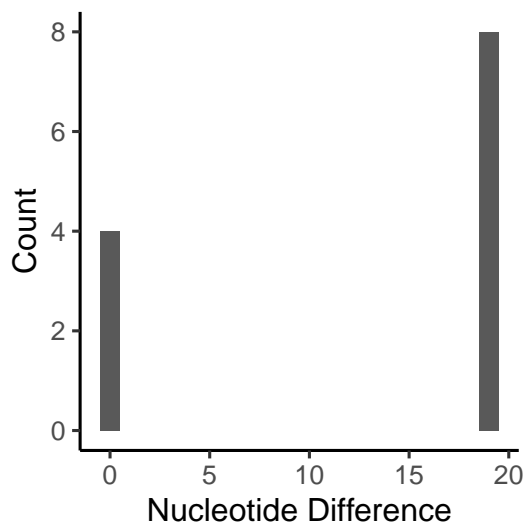
IGHV3-20*03_04

2 sequences assigned
No exact matches.



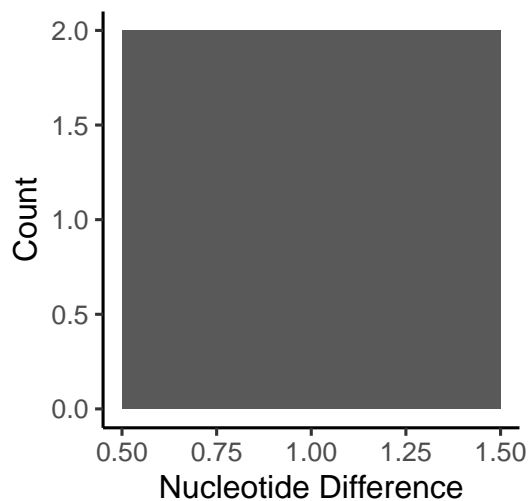
IGHV3-13*01

21 sequences assigned
4 (19%) exact matches, in which:
2 unique CDR3
2 unique J



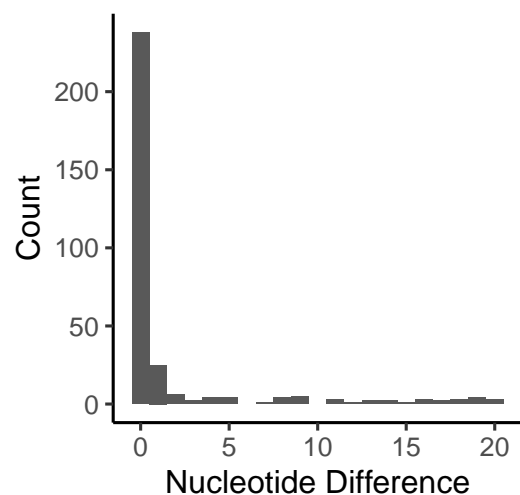
IGHV3-19*01

2 sequences assigned
No exact matches.



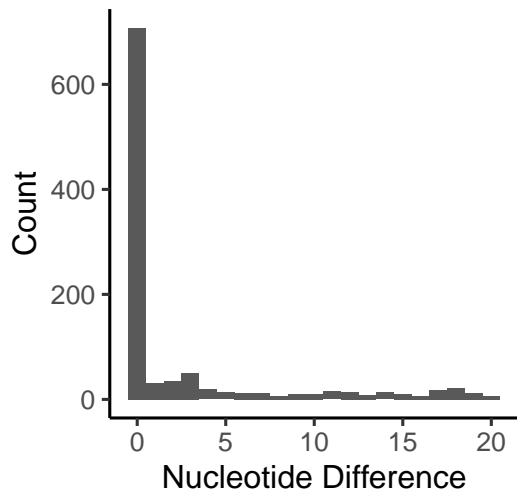
IGHV3-21*01_02

379 sequences assigned
238 (62.8%) exact matches, in which:
144 unique CDR3
5 unique J



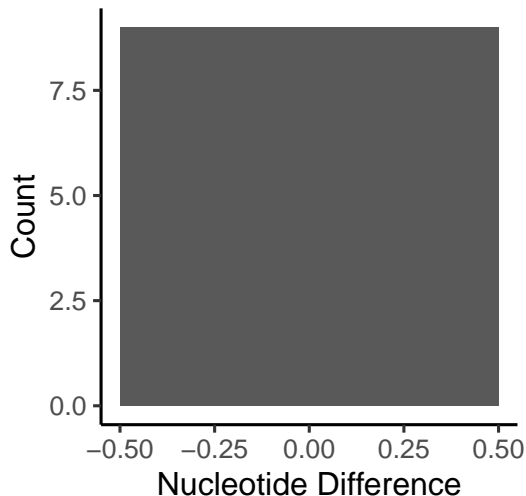
IGHV3–23*01_04

1353 sequences assigned
708 (52.3%) exact matches, in which:
489 unique CDR3
6 unique J



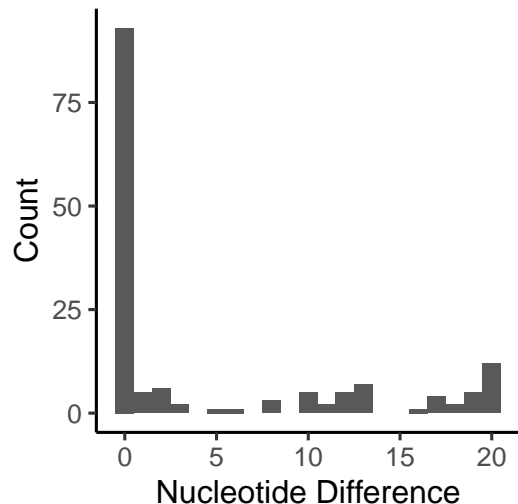
IGHV3–43*01

15 sequences assigned
9 (60%) exact matches, in which:
5 unique CDR3
2 unique J



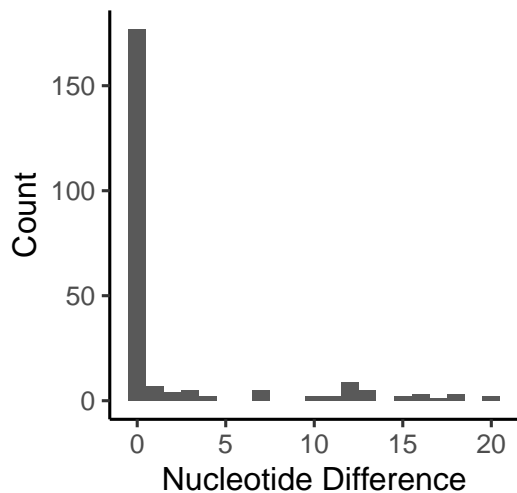
IGHV3–48*03

187 sequences assigned
93 (49.7%) exact matches, in which:
53 unique CDR3
6 unique J



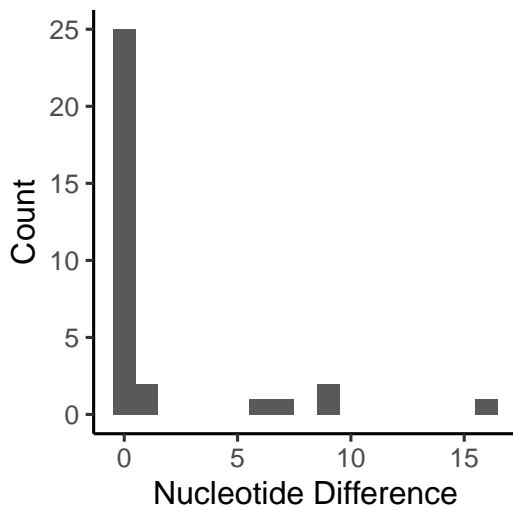
IGHV3–30–3*01

275 sequences assigned
177 (64.4%) exact matches, in which:
115 unique CDR3
6 unique J



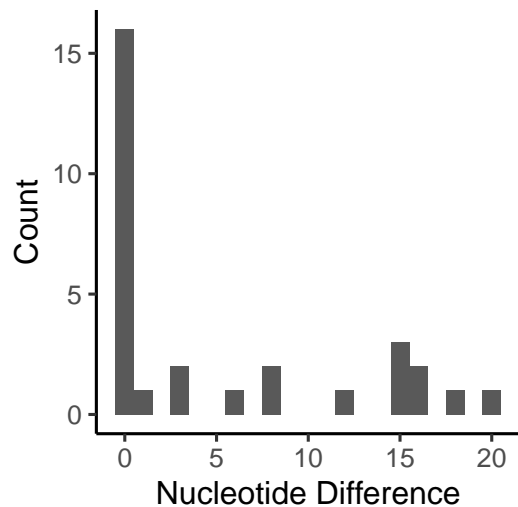
IGHV3–43*02

40 sequences assigned
25 (62.5%) exact matches, in which:
14 unique CDR3
3 unique J



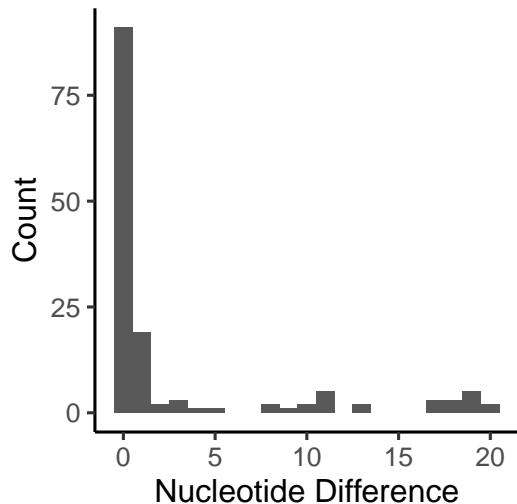
IGHV3–49*04

41 sequences assigned
16 (39%) exact matches, in which:
11 unique CDR3
4 unique J



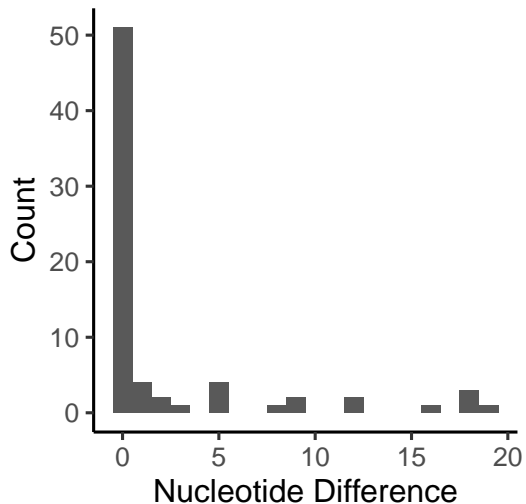
IGHV3–33*01

190 sequences assigned
91 (47.9%) exact matches, in which:
56 unique CDR3
5 unique J



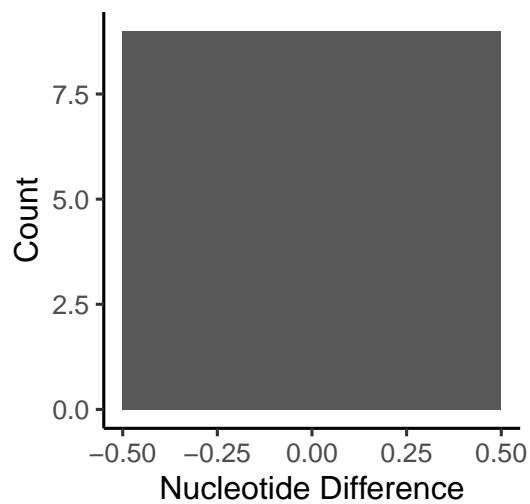
IGHV3–48*02

92 sequences assigned
51 (55.4%) exact matches, in which:
28 unique CDR3
3 unique J



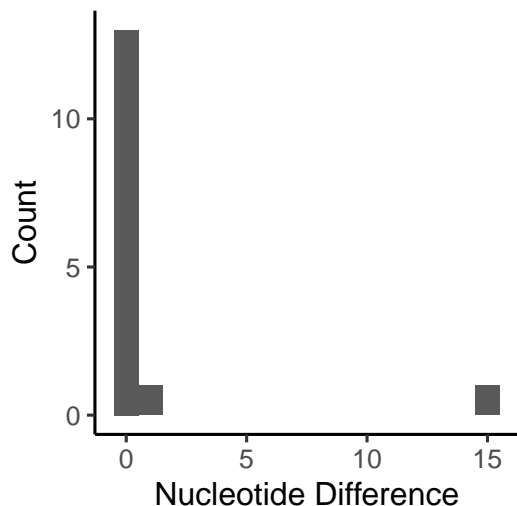
IGHV3–49*03_05

22 sequences assigned
9 (40.9%) exact matches, in which:
5 unique CDR3
3 unique J



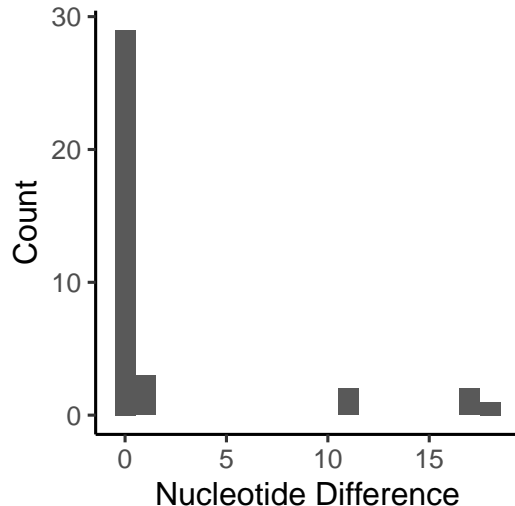
IGHV3-53*04

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



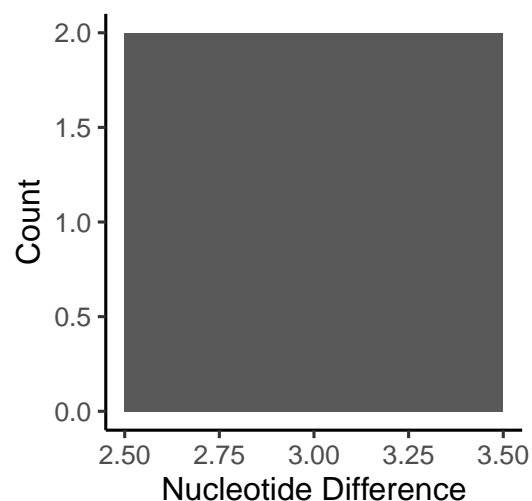
IGHV3-64*01

50 sequences assigned
29 (58%) exact matches, in which:
15 unique CDR3
4 unique J



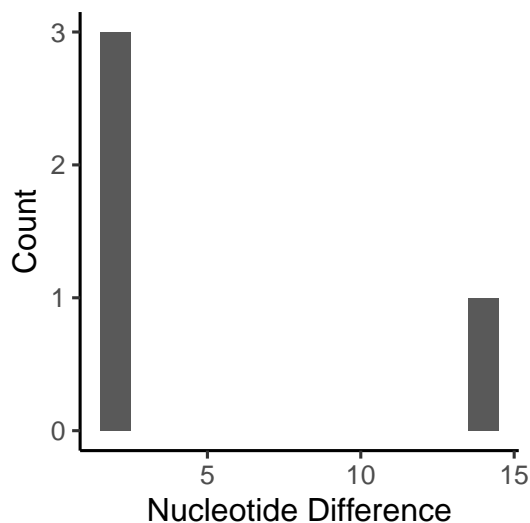
IGHV3-69-1*01

2 sequences assigned
No exact matches.



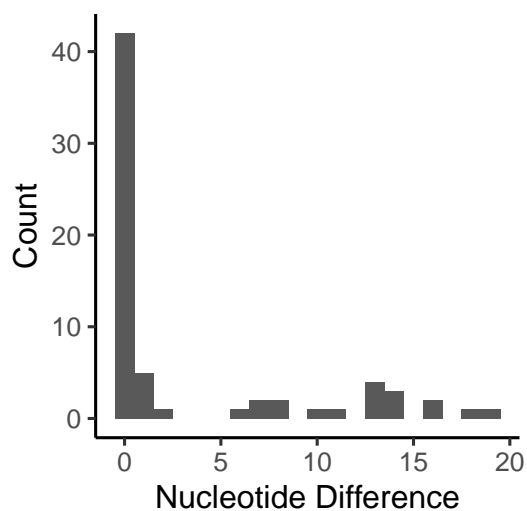
IGHV3-53*05

8 sequences assigned
No exact matches.



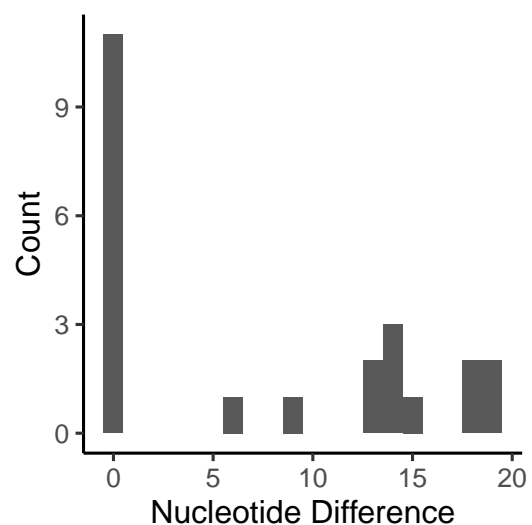
IGHV3-66*01

92 sequences assigned
42 (45.7%) exact matches, in which:
24 unique CDR3
3 unique J



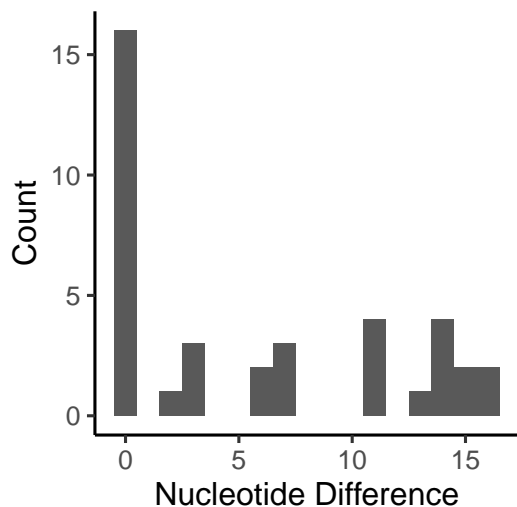
IGHV3-72*01

32 sequences assigned
11 (34.4%) exact matches, in which:
5 unique CDR3
2 unique J



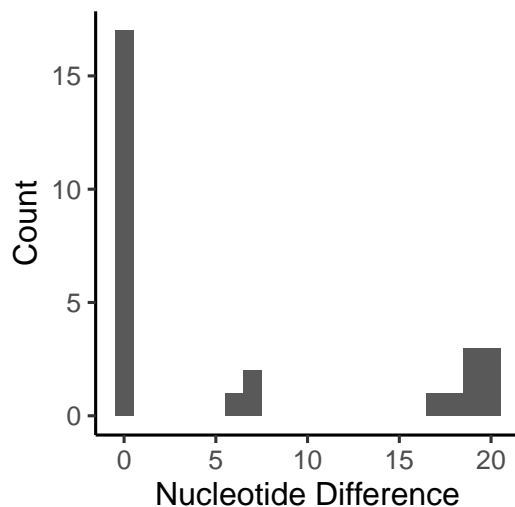
IGHV3-53*01_02

61 sequences assigned
16 (26.2%) exact matches, in which:
10 unique CDR3
2 unique J



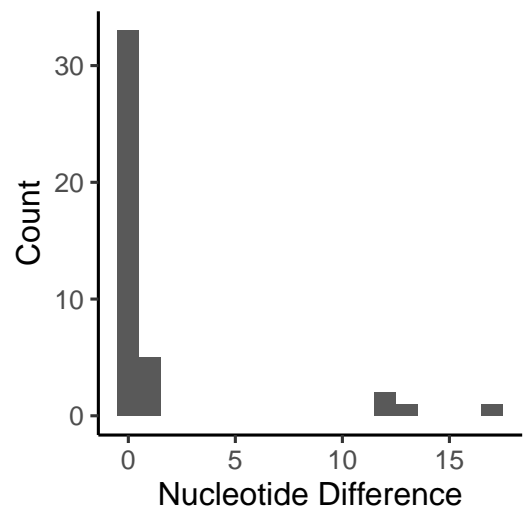
IGHV3-66*02

42 sequences assigned
17 (40.5%) exact matches, in which:
11 unique CDR3
3 unique J



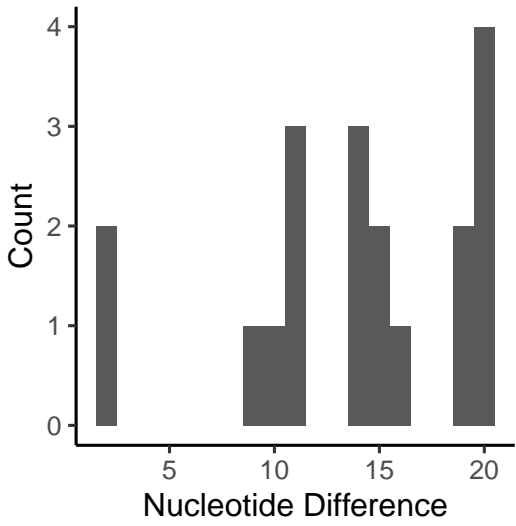
IGHV3-73*01_02

57 sequences assigned
33 (57.9%) exact matches, in which:
18 unique CDR3
3 unique J



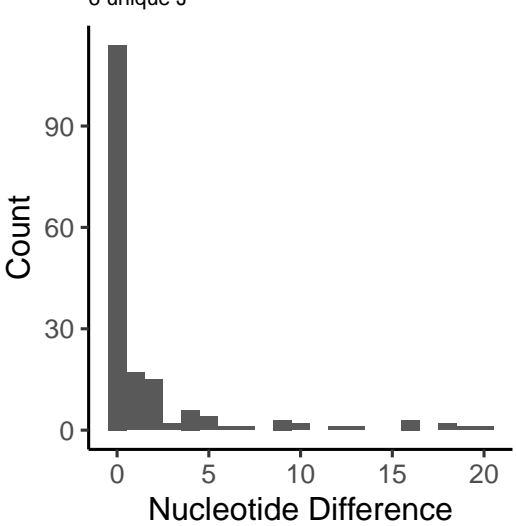
IGHV3-74*03

50 sequences assigned
No exact matches.



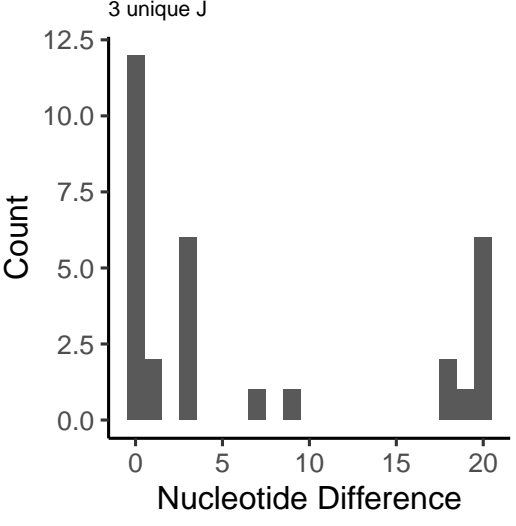
IGHV4-4*02_03

203 sequences assigned
114 (56.2%) exact matches, in which:
90 unique CDR3
6 unique J



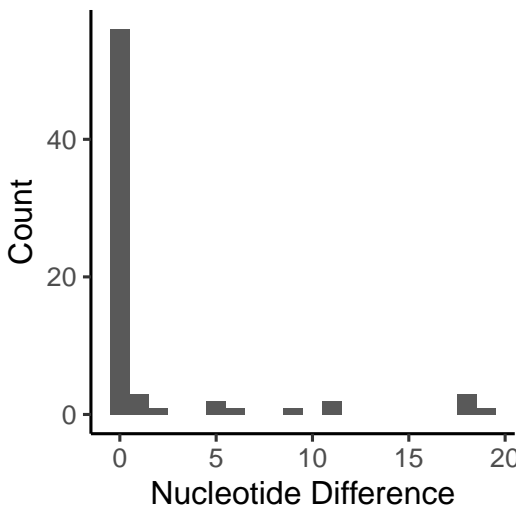
IGHV4-30-4*01

56 sequences assigned
12 (21.4%) exact matches, in which:
12 unique CDR3
3 unique J



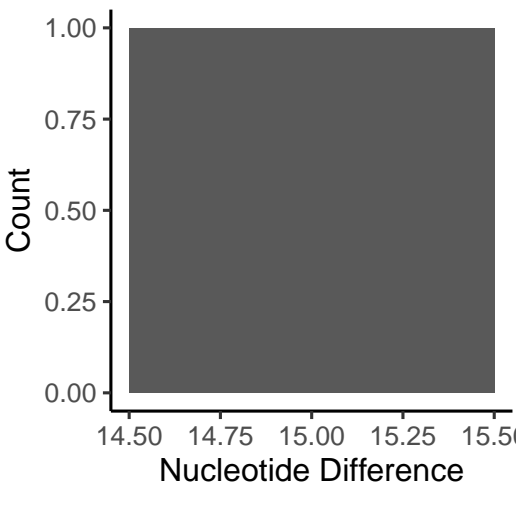
IGHV3-74*01_02

90 sequences assigned
56 (62.2%) exact matches, in which:
34 unique CDR3
4 unique J



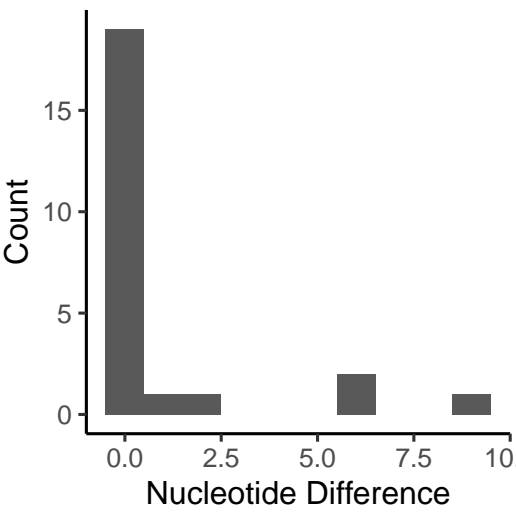
IGHV4-28*01_07

1 sequences assigned
No exact matches.



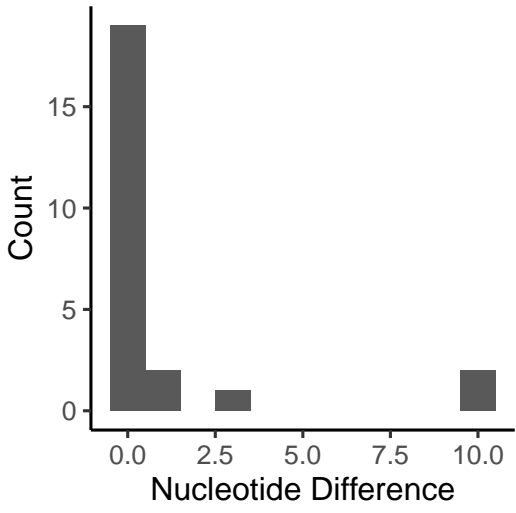
IGHV4-30-2*01

27 sequences assigned
19 (70.4%) exact matches, in which:
12 unique CDR3
4 unique J



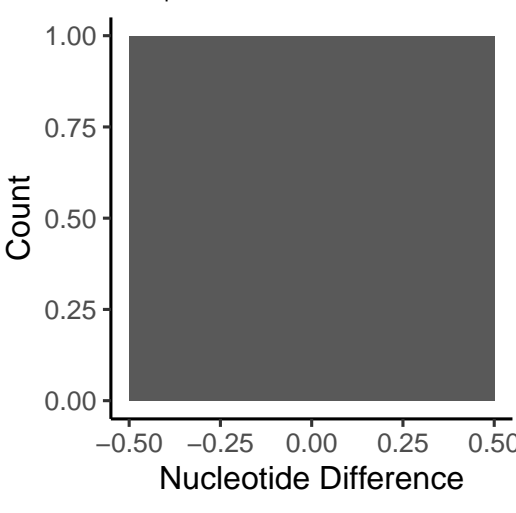
IGHV3-64D*06

34 sequences assigned
19 (55.9%) exact matches, in which:
9 unique CDR3
4 unique J



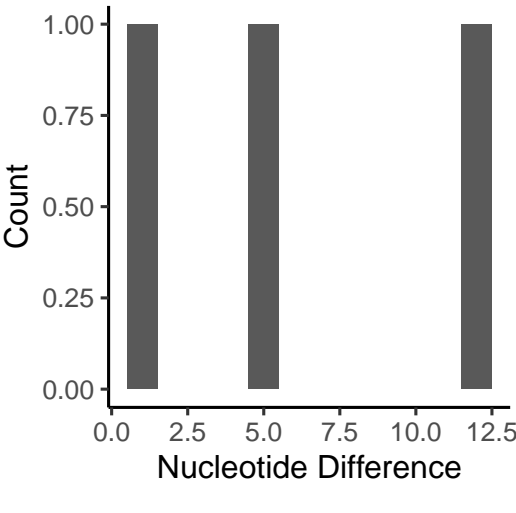
IGHV4-28*02_05

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



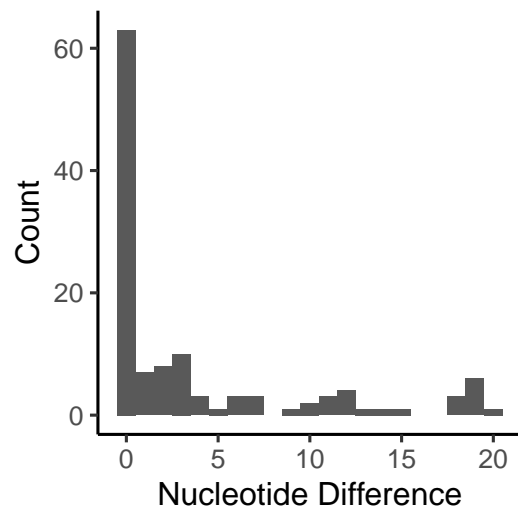
IGHV4-30-2*03

3 sequences assigned
No exact matches.



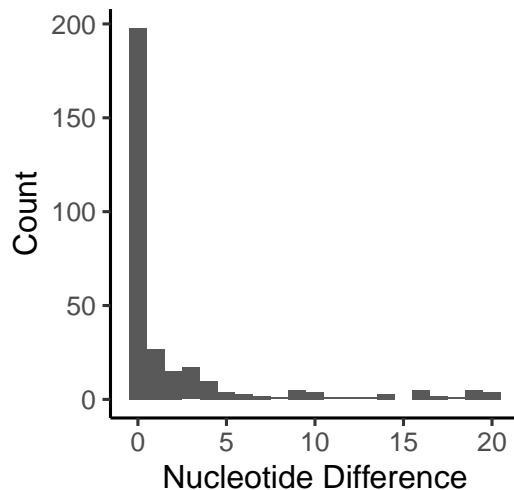
IGHV4-31*02

150 sequences assigned
63 (42%) exact matches, in which:
55 unique CDR3
4 unique J



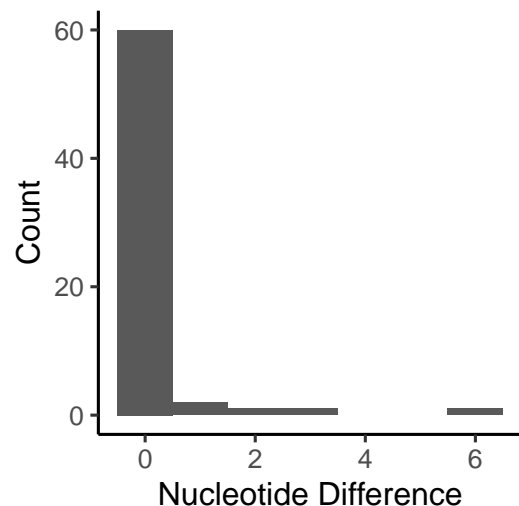
IGHV4-39*02_C258G

373 sequences assigned
198 (53.1%) exact matches, in which:
175 unique CDR3
5 unique J



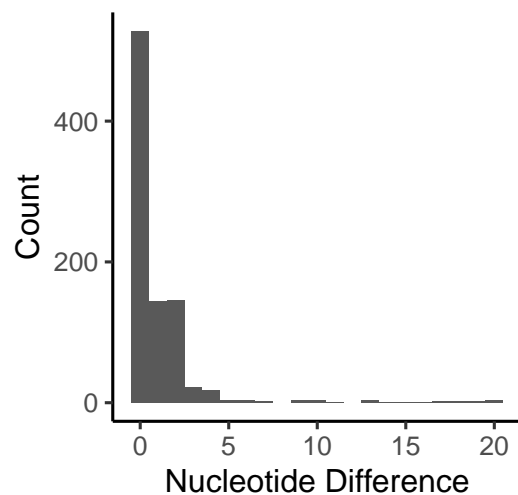
IGHV4-59*12_C300T

66 sequences assigned
60 (90.9%) exact matches, in which:
60 unique CDR3
4 unique J



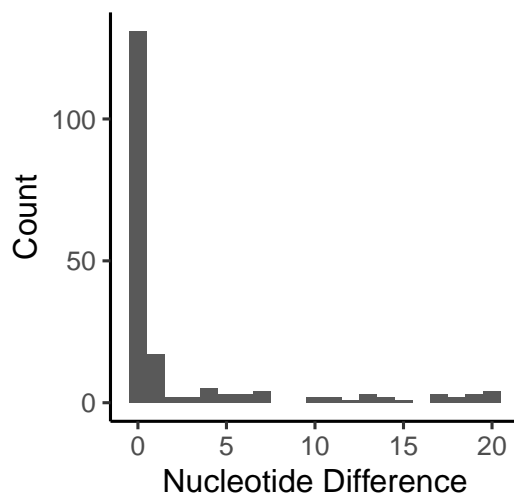
IGHV4-34*01_02

922 sequences assigned
528 (57.3%) exact matches, in which:
444 unique CDR3
6 unique J



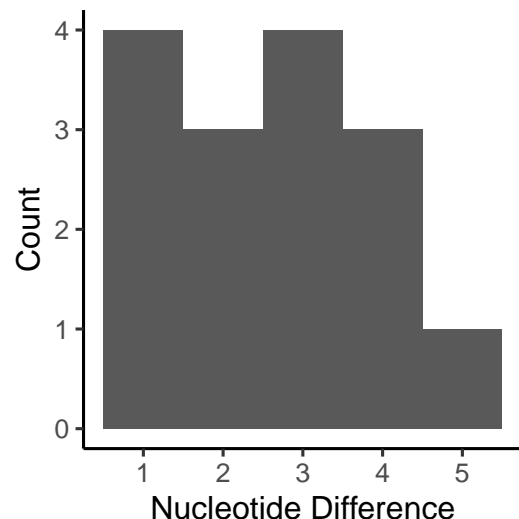
IGHV4-59*08

274 sequences assigned
131 (47.8%) exact matches, in which:
120 unique CDR3
6 unique J



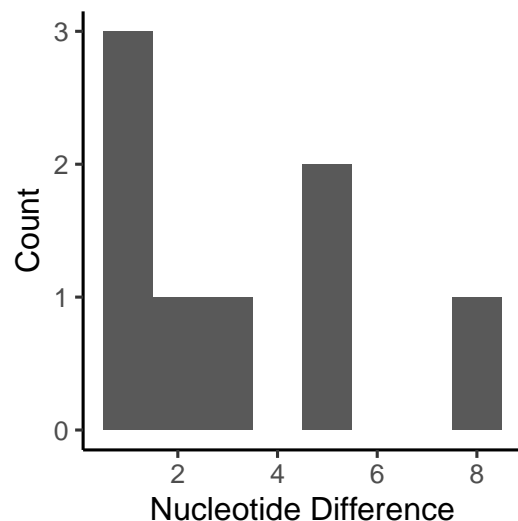
IGHV4-61*01

15 sequences assigned
No exact matches.



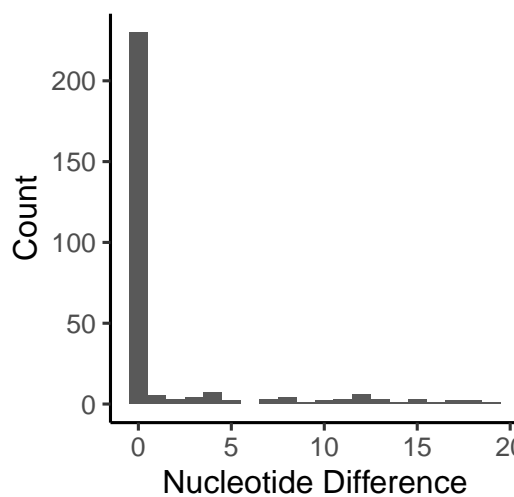
IGHV4-38-2*02

9 sequences assigned
No exact matches.



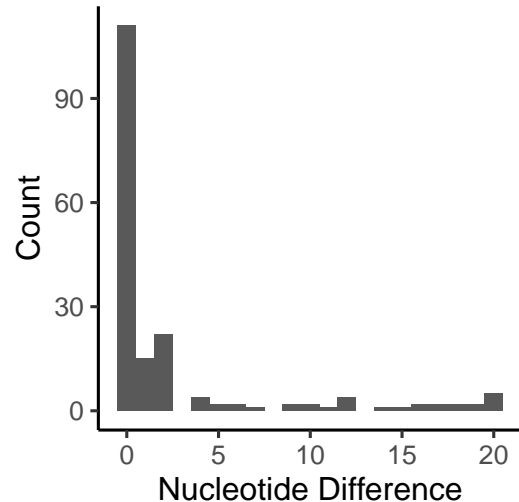
IGHV4-59*02_G88A

356 sequences assigned
230 (64.6%) exact matches, in which:
218 unique CDR3
6 unique J



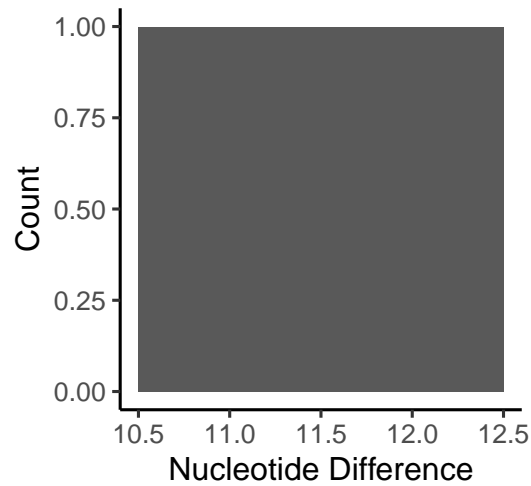
IGHV4-61*02

222 sequences assigned
111 (50%) exact matches, in which:
94 unique CDR3
5 unique J



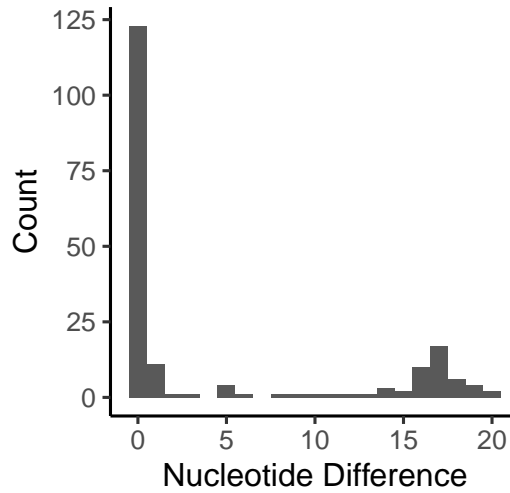
IGHV4/OR15-8*02

5 sequences assigned
No exact matches.



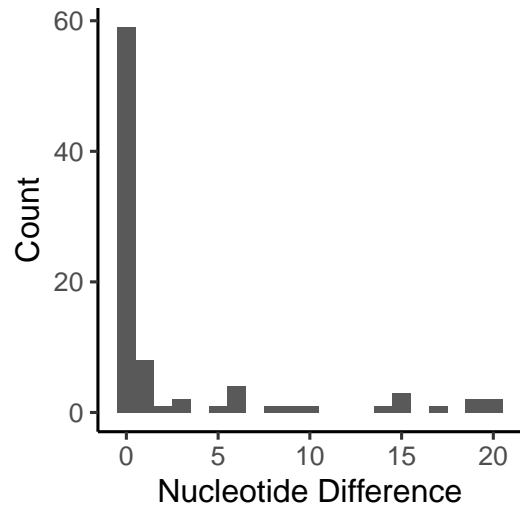
IGHV5-51*01_03

239 sequences assigned
123 (51.5%) exact matches, in which:
101 unique CDR3
4 unique J



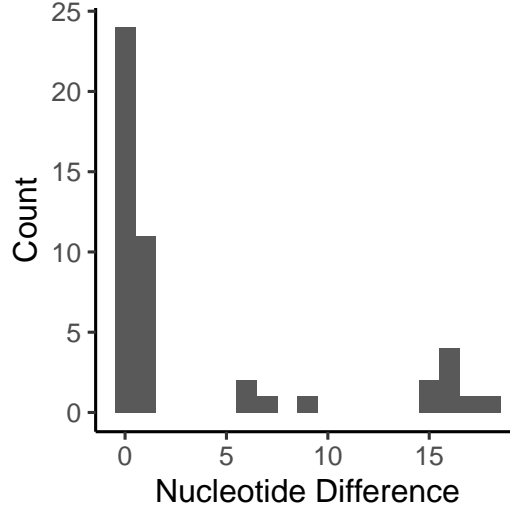
IGHV5-10-1*01_03

103 sequences assigned
59 (57.3%) exact matches, in which:
43 unique CDR3
4 unique J



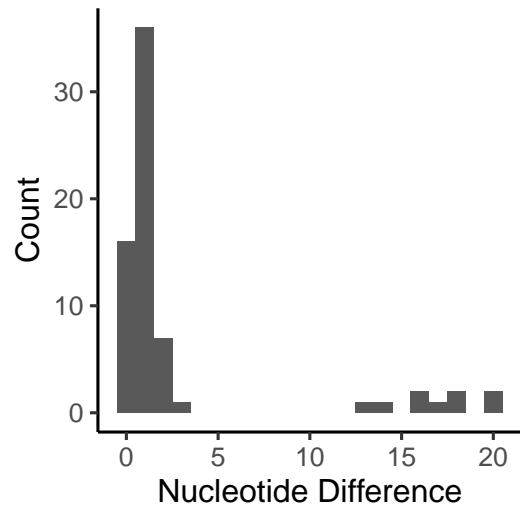
IGHV6-1*01_02

52 sequences assigned
24 (46.2%) exact matches, in which:
24 unique CDR3
6 unique J



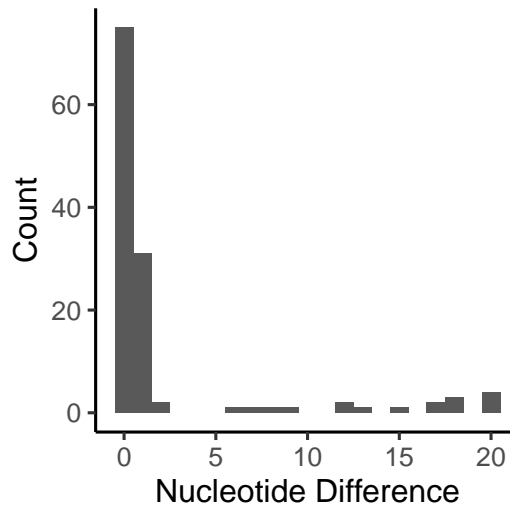
IGHV5-51*07

84 sequences assigned
16 (19%) exact matches, in which:
14 unique CDR3
5 unique J



IGHV7-4-1*02

159 sequences assigned
75 (47.2%) exact matches, in which:
71 unique CDR3
4 unique J





Warning – no inferred sequences found.