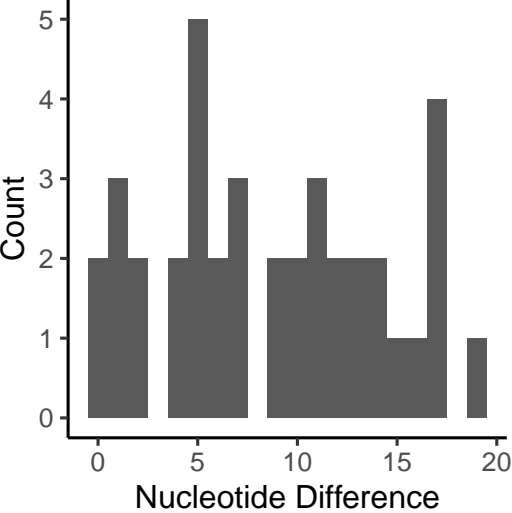


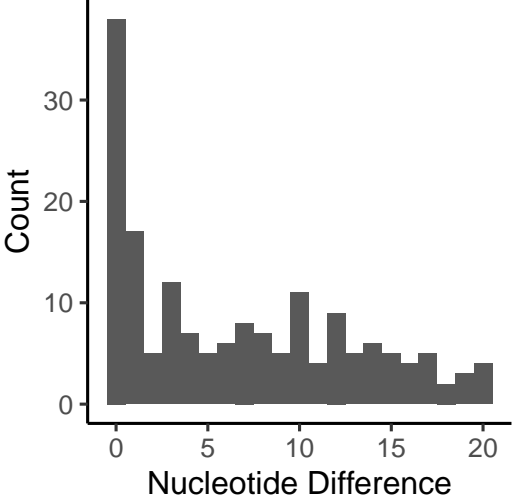
IGHV1-2*02

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



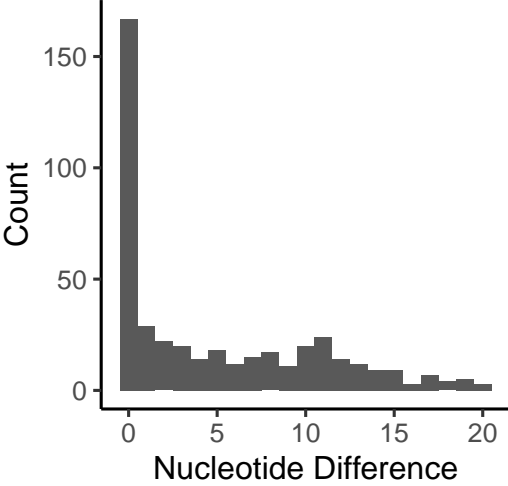
IGHV1-3*01

195 sequences assigned
38 (19.5%) exact matches, in which:
38 unique CDR3
6 unique J



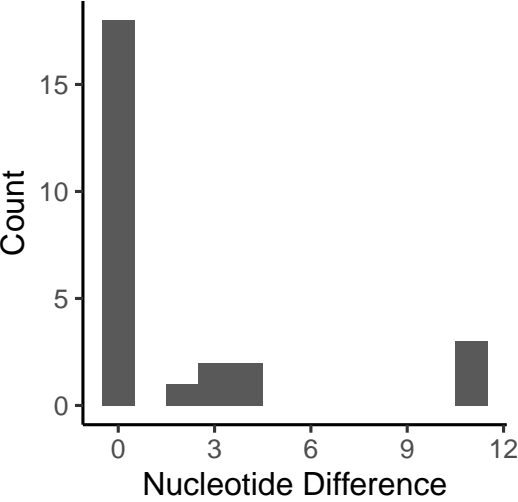
IGHV1-18*01

461 sequences assigned
167 (36.2%) exact matches, in which:
167 unique CDR3
6 unique J



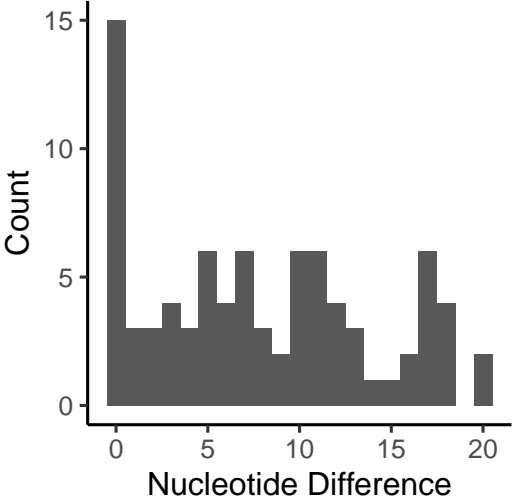
IGHV1-2*04

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



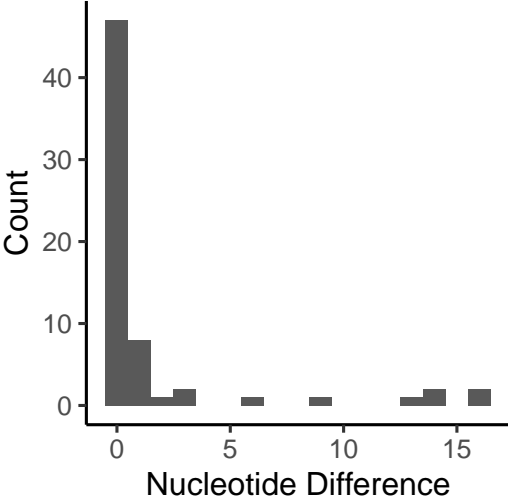
IGHV1-8*01

84 sequences assigned
15 (17.9%) exact matches, in which:
15 unique CDR3
4 unique J



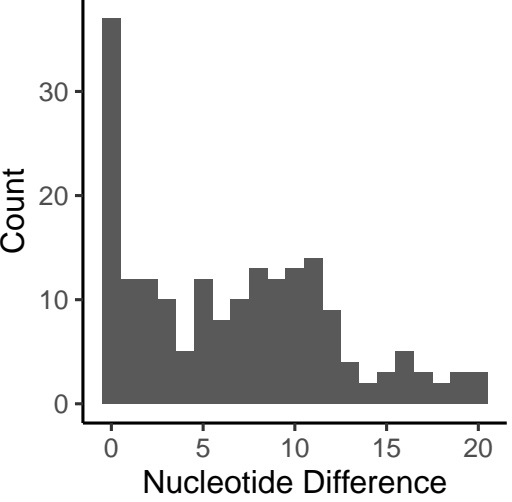
IGHV1-24*01

68 sequences assigned
47 (69.1%) exact matches, in which:
47 unique CDR3
5 unique J



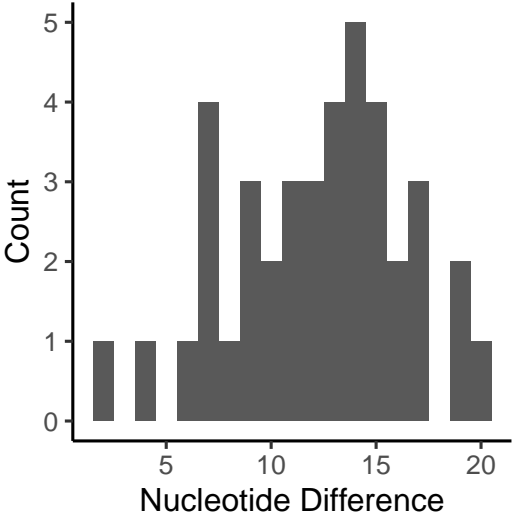
IGHV1-2*06

200 sequences assigned
37 (18.5%) exact matches, in which:
37 unique CDR3
4 unique J



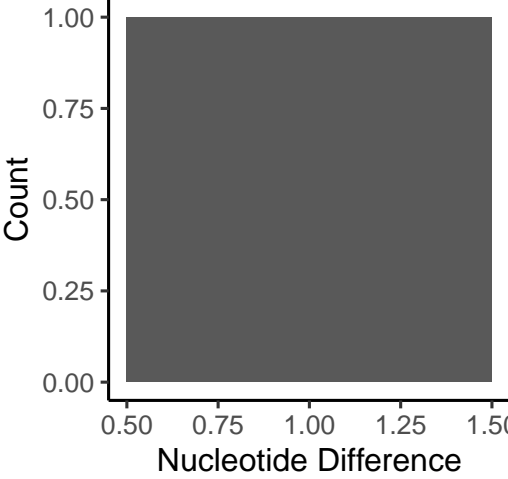
IGHV1-8*02

41 sequences assigned
No exact matches.



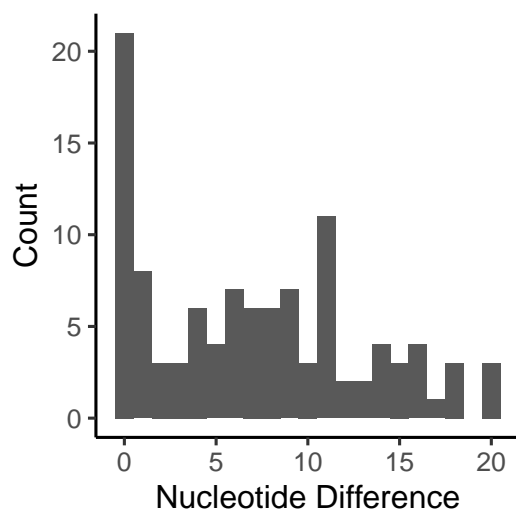
IGHV1-45*02

1 sequences assigned
No exact matches.



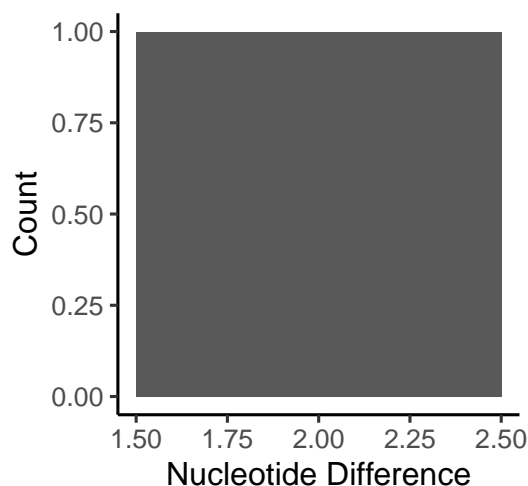
IGHV1-46*01

120 sequences assigned
21 (17.5%) exact matches, in which:
21 unique CDR3
6 unique J



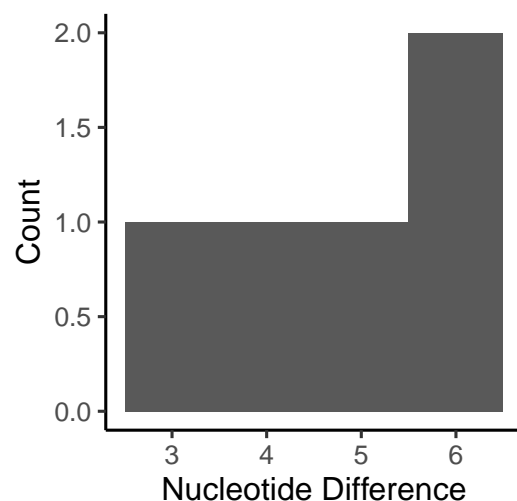
IGHV1-69-2*01

1 sequences assigned
No exact matches.



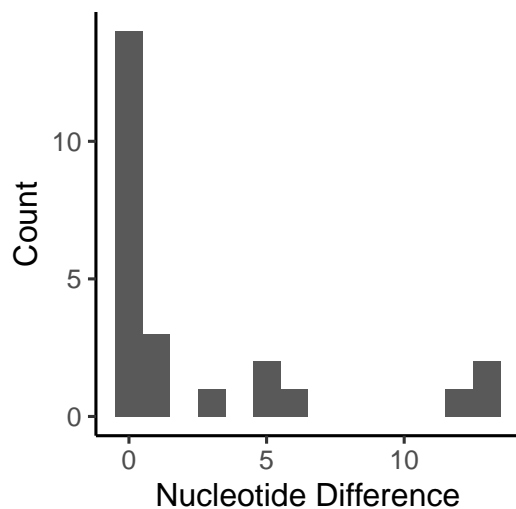
IGHV1-69D*01

5 sequences assigned
No exact matches.



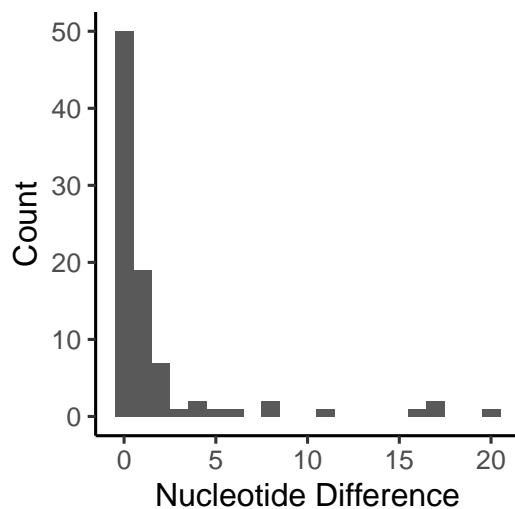
IGHV1-46*03

25 sequences assigned
14 (56%) exact matches, in which:
14 unique CDR3
2 unique J



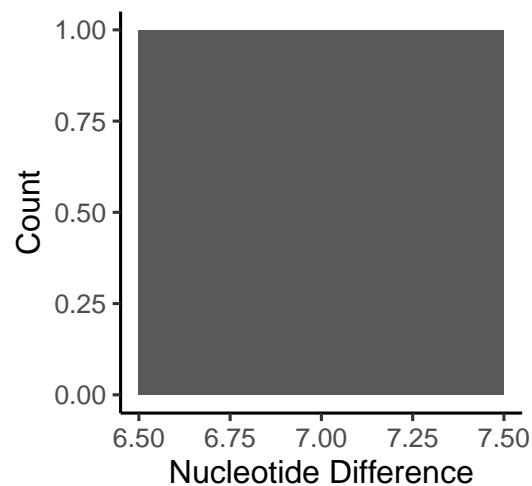
IGHV1-69*04

90 sequences assigned
50 (55.6%) exact matches, in which:
47 unique CDR3
4 unique J



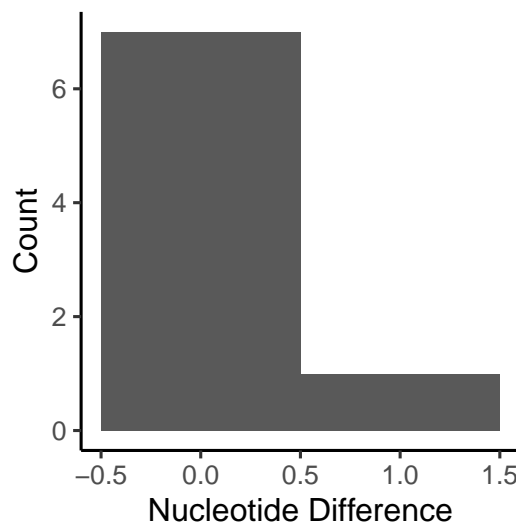
IGHV1-NL1*01

1 sequences assigned
No exact matches.



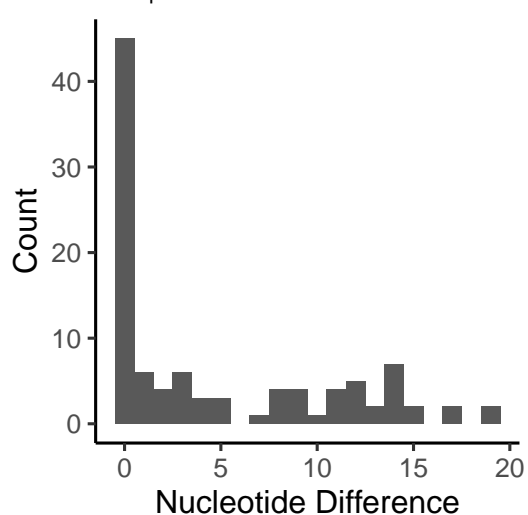
IGHV1-58*02

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
3 unique J



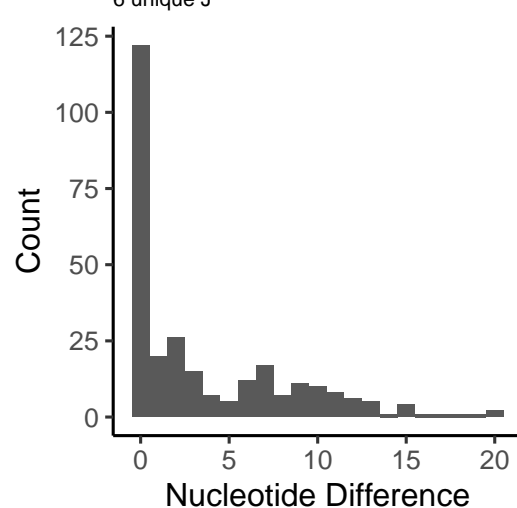
IGHV1-69*10

105 sequences assigned
45 (42.9%) exact matches, in which:
44 unique CDR3
5 unique J



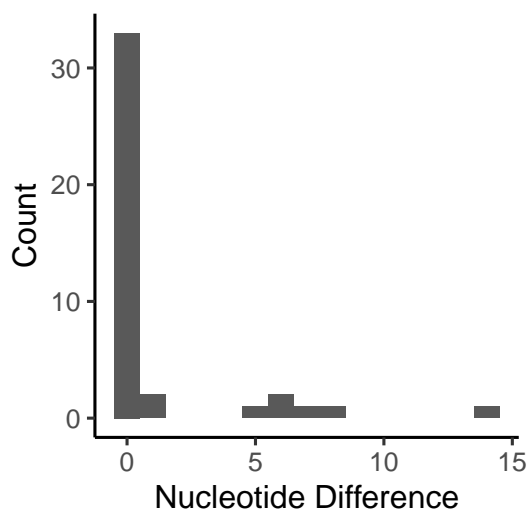
IGHV2-5*02

288 sequences assigned
122 (42.4%) exact matches, in which:
122 unique CDR3
6 unique J



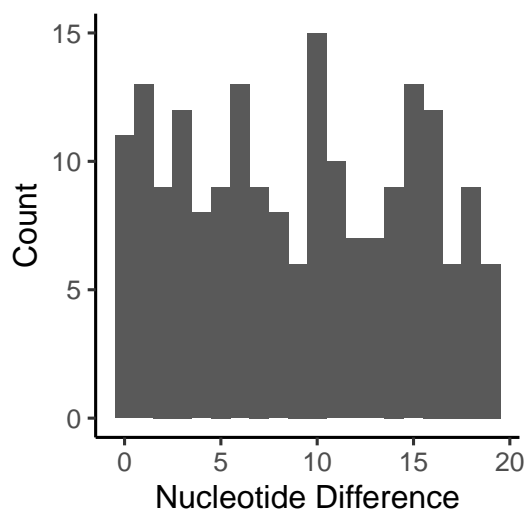
IGHV2-26*01

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



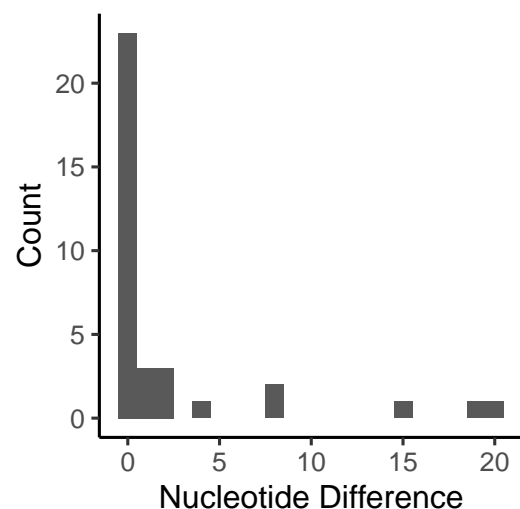
IGHV3-7*01

202 sequences assigned
11 (5.4%) exact matches, in which:
11 unique CDR3
3 unique J



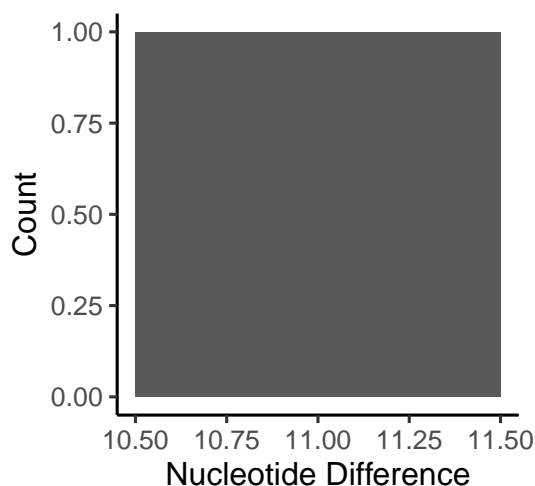
IGHV3-11*01

36 sequences assigned
23 (63.9%) exact matches, in which:
23 unique CDR3
5 unique J



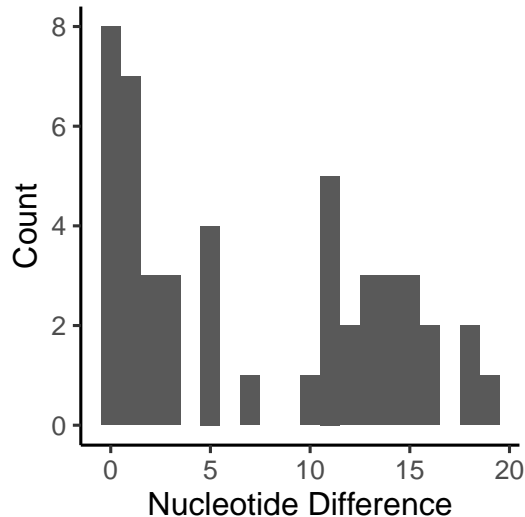
IGHV2-70*12

1 sequences assigned
No exact matches.



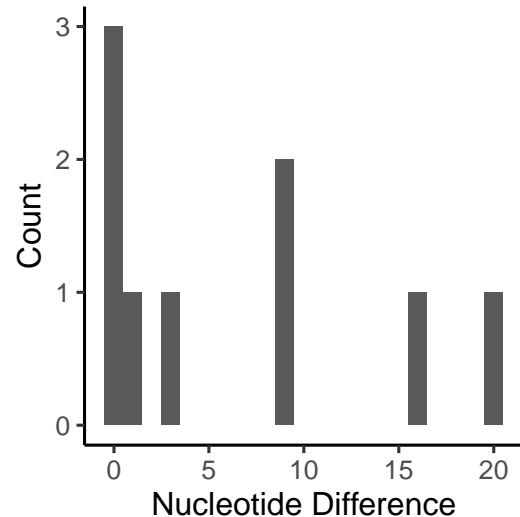
IGHV3-7*04

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



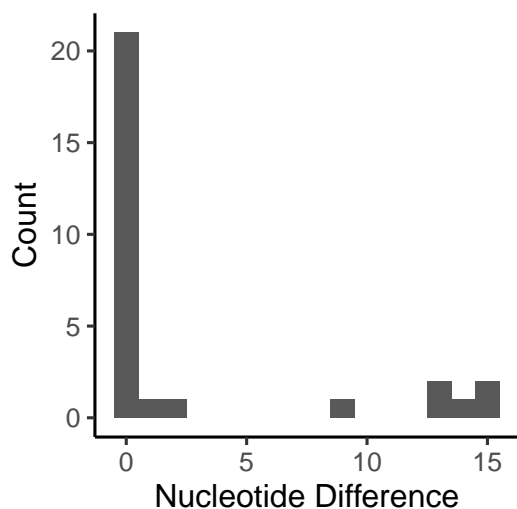
IGHV3-11*04

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



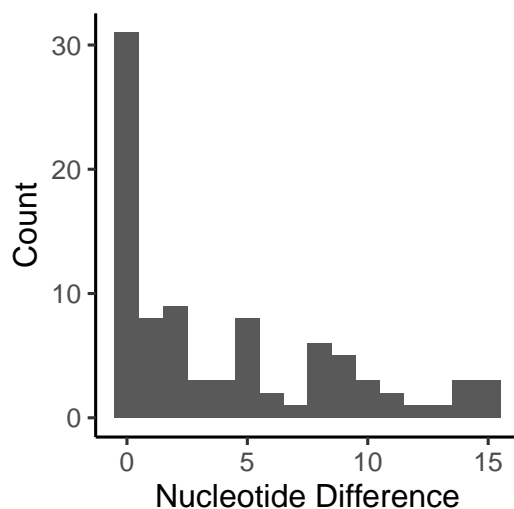
IGHV2-70*15

29 sequences assigned
21 (72.4%) exact matches, in which:
21 unique CDR3
5 unique J



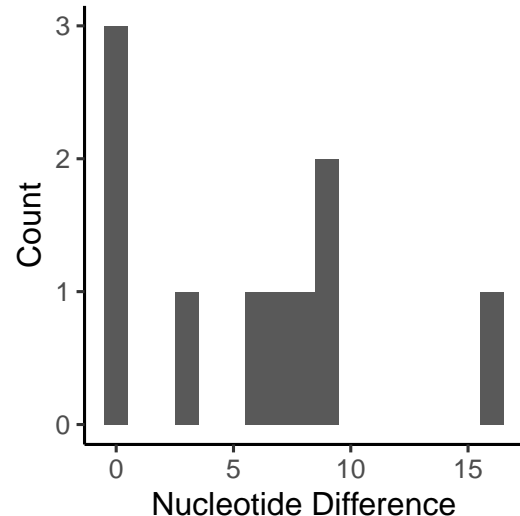
IGHV3-9*01

90 sequences assigned
31 (34.4%) exact matches, in which:
31 unique CDR3
5 unique J



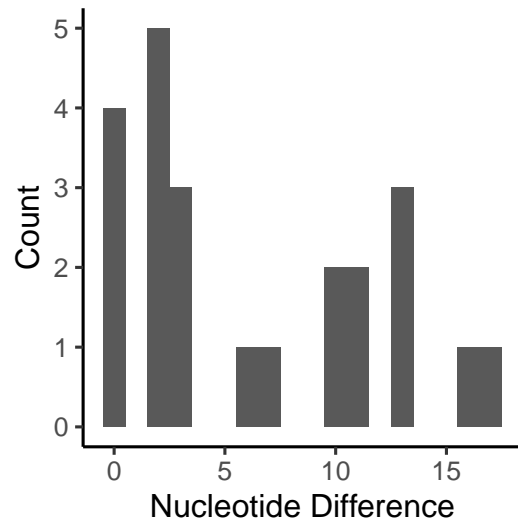
IGHV3-11*06

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



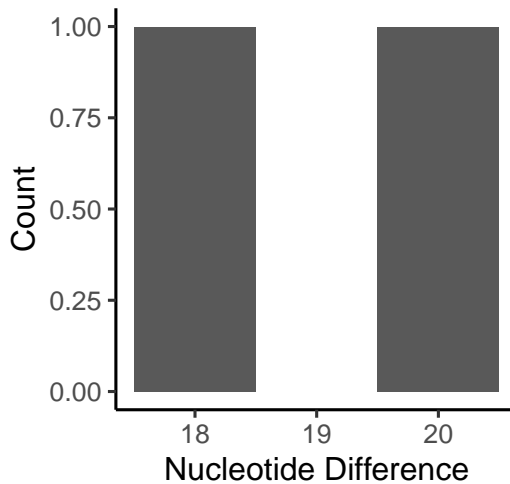
IGHV3–13*01

24 sequences assigned
4 (16.7%) exact matches, in which:
4 unique CDR3
1 unique J



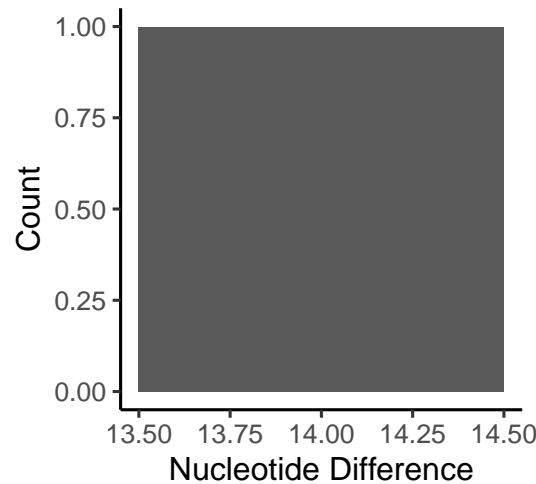
IGHV3–20*04

2 sequences assigned
No exact matches.



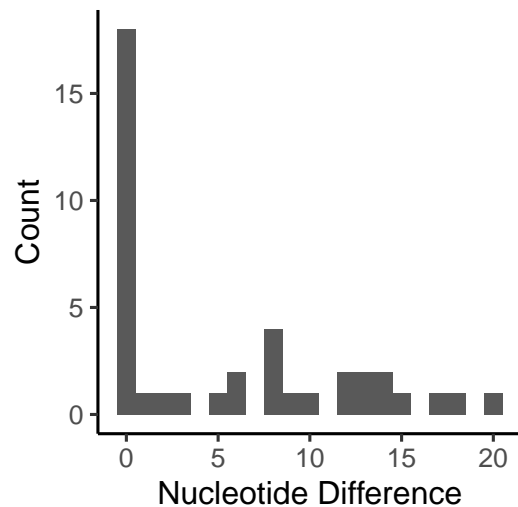
IGHV3–25*01

1 sequences assigned
No exact matches.



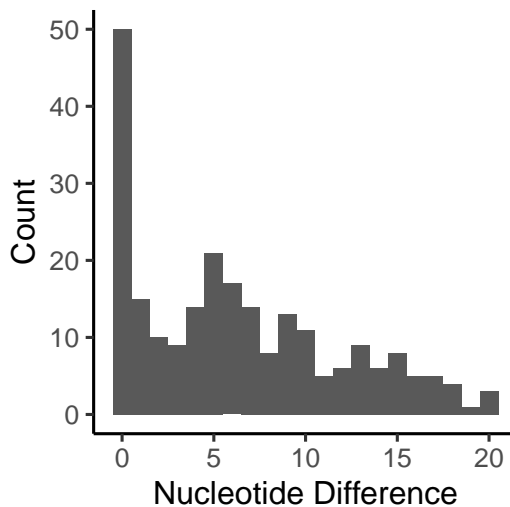
IGHV3–15*01

43 sequences assigned
18 (41.9%) exact matches, in which:
17 unique CDR3
4 unique J



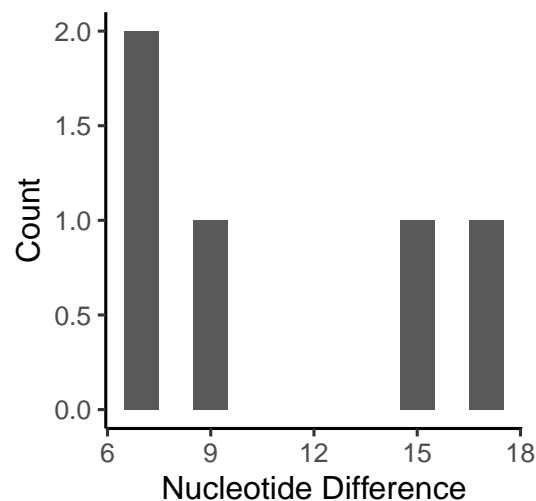
IGHV3–21*01

247 sequences assigned
50 (20.2%) exact matches, in which:
48 unique CDR3
6 unique J



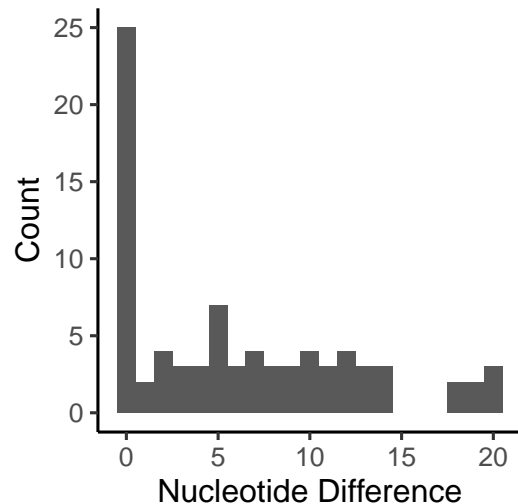
IGHV3–30–5*01

5 sequences assigned
No exact matches.



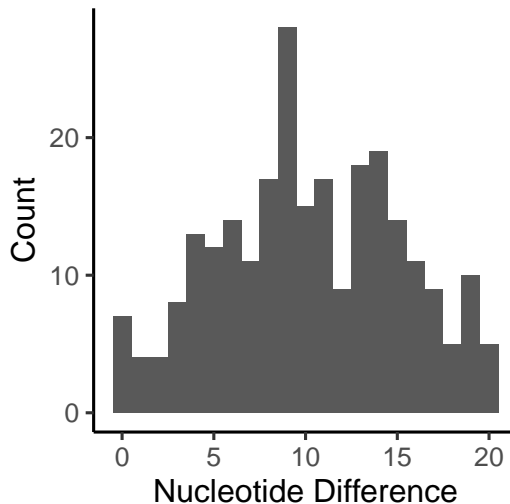
IGHV3–15*07

89 sequences assigned
25 (28.1%) exact matches, in which:
25 unique CDR3
5 unique J



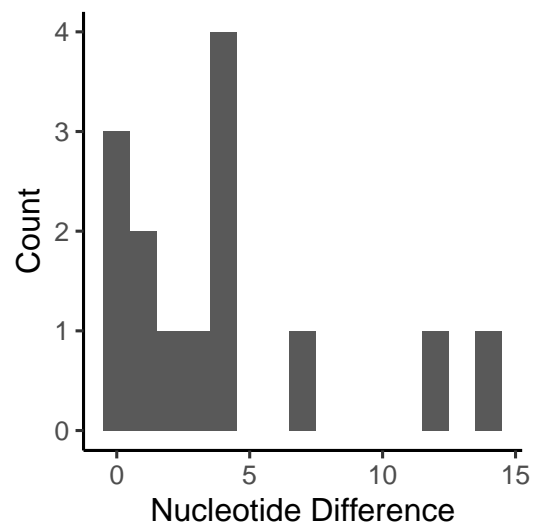
IGHV3–23*04

268 sequences assigned
7 (2.6%) exact matches, in which:
7 unique CDR3
2 unique J



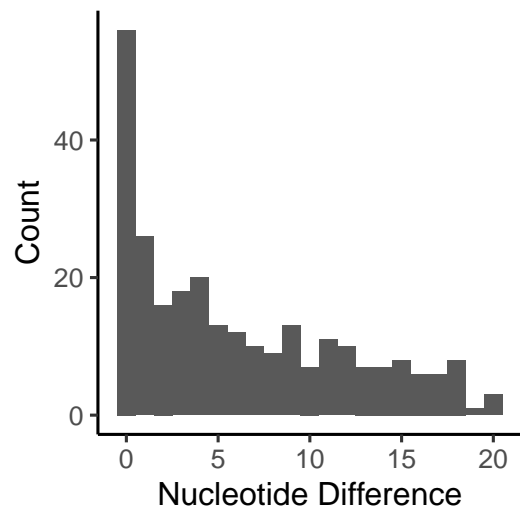
IGHV3–30*07

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



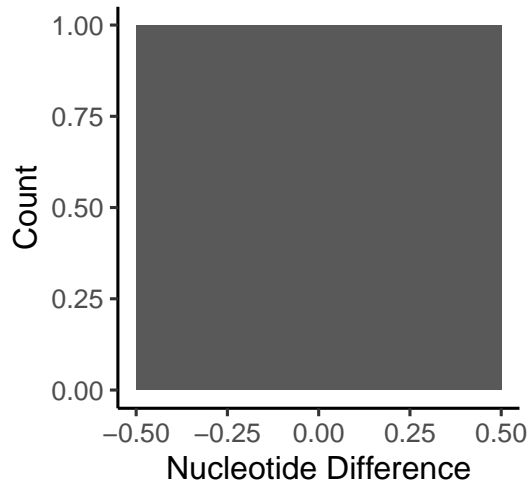
IGHV3-33*01

276 sequences assigned
56 (20.3%) exact matches, in which:
55 unique CDR3
5 unique J



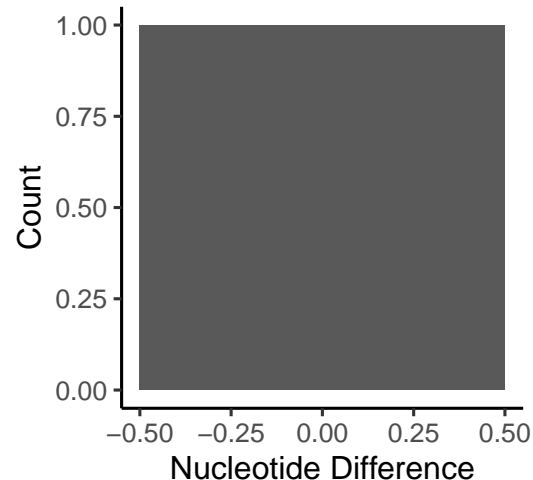
IGHV3-38-3*01

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



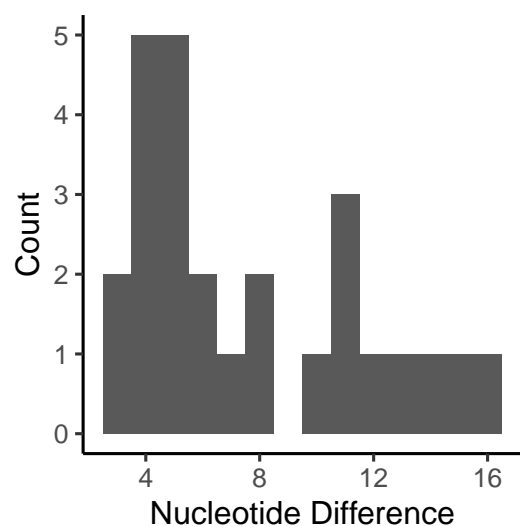
IGHV3-43*02

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



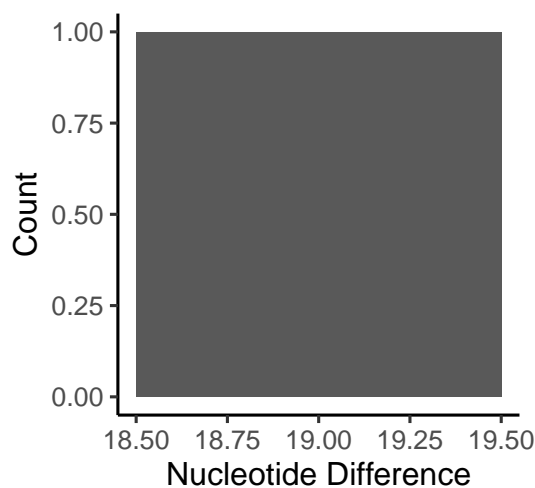
IGHV3-33*05

28 sequences assigned
No exact matches.



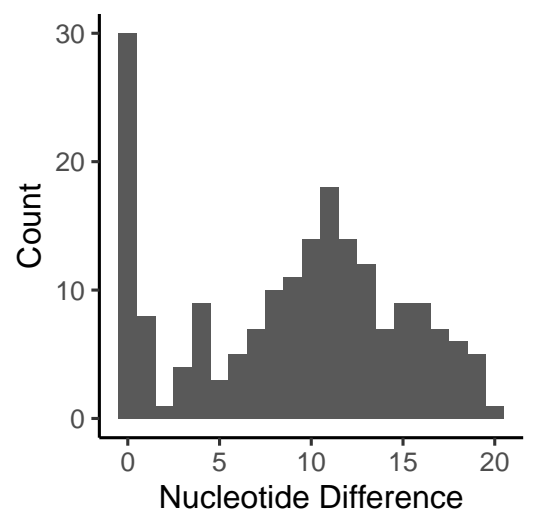
IGHV3-41*02

2 sequences assigned
No exact matches.



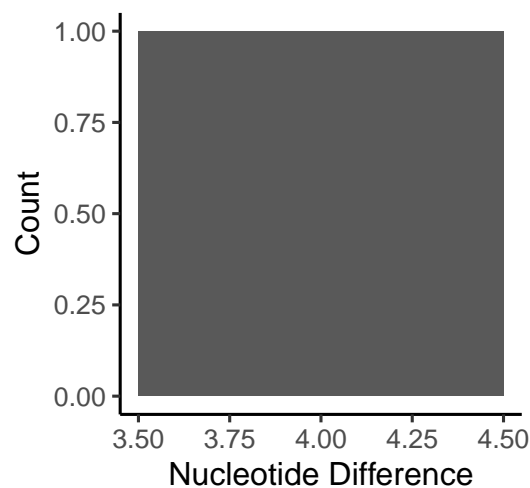
IGHV3-48*01

204 sequences assigned
30 (14.7%) exact matches, in which:
30 unique CDR3
6 unique J



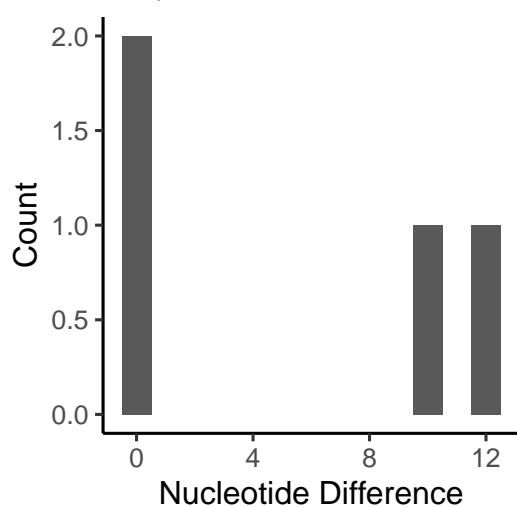
IGHV3-35*01

1 sequences assigned
No exact matches.



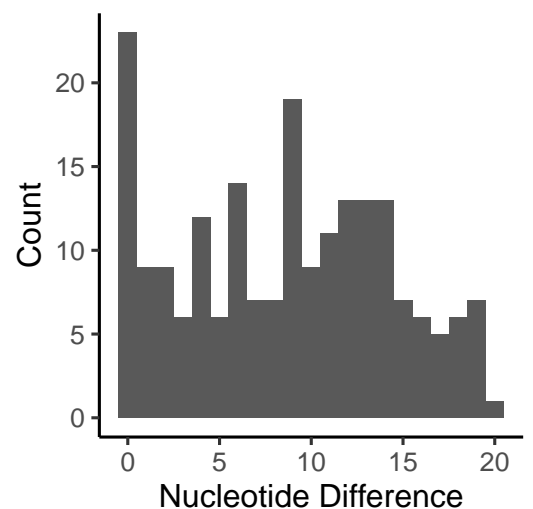
IGHV3-43*01

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



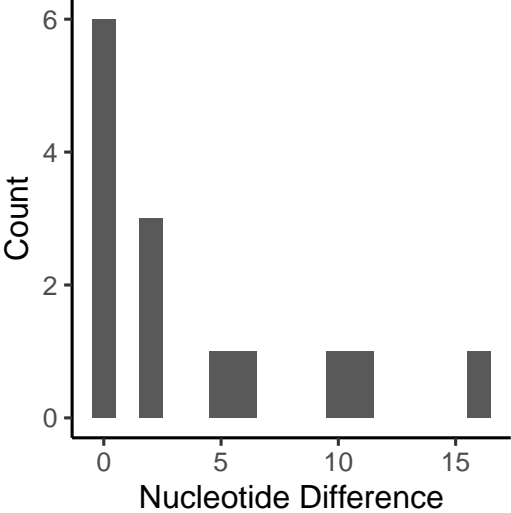
IGHV3-48*04

210 sequences assigned
23 (11%) exact matches, in which:
23 unique CDR3
4 unique J



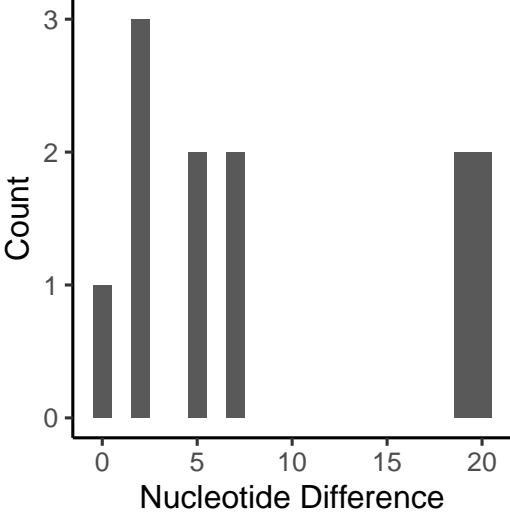
IGHV3-49*03

14 sequences assigned
6 (42.9%) exact matches, in which:
6 unique CDR3
2 unique J



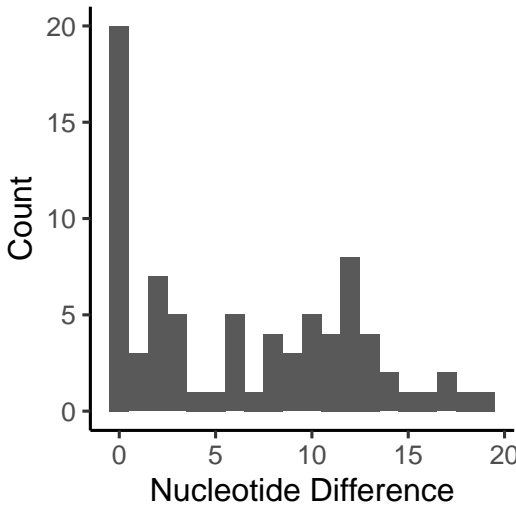
IGHV3-64*01

13 sequences assigned
1 (7.7%) exact matches, in which:
1 unique CDR3
1 unique J



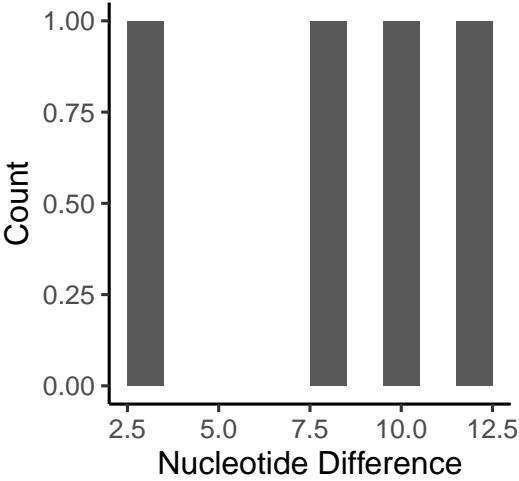
IGHV3-66*01

82 sequences assigned
20 (24.4%) exact matches, in which:
20 unique CDR3
4 unique J



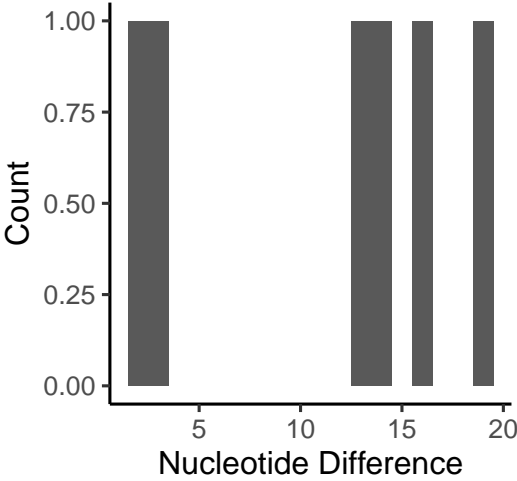
IGHV3-53*01

4 sequences assigned
No exact matches.



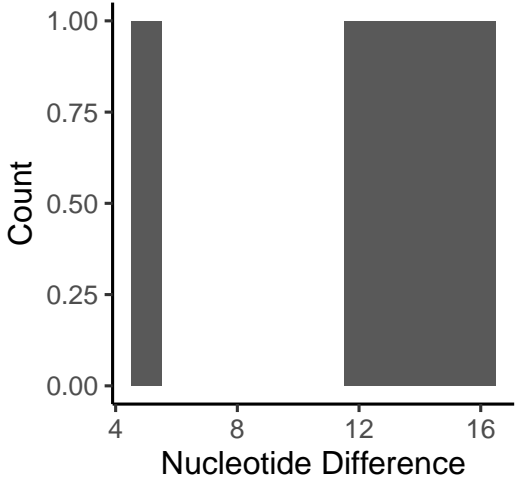
IGHV3-64*04

6 sequences assigned
No exact matches.



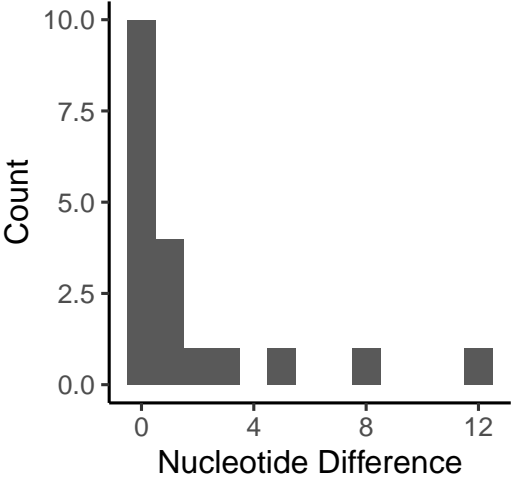
IGHV3-69-1*01

8 sequences assigned
No exact matches.



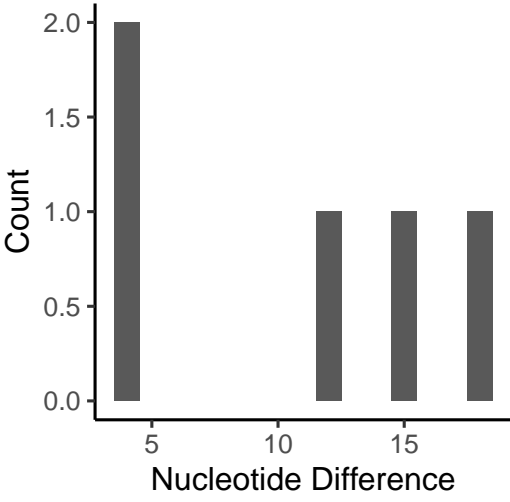
IGHV3-53*04

19 sequences assigned
10 (52.6%) exact matches, in which:
9 unique CDR3
3 unique J



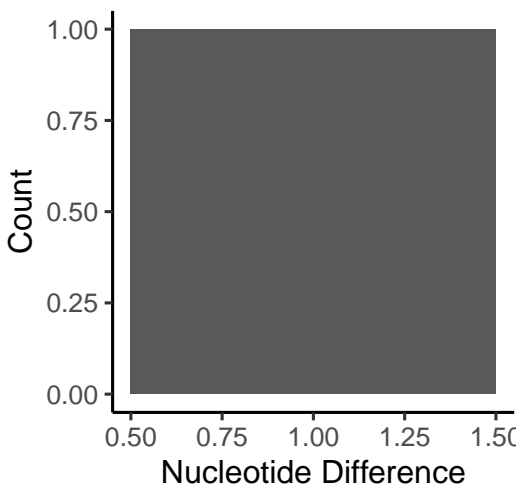
IGHV3-64*07

5 sequences assigned
No exact matches.



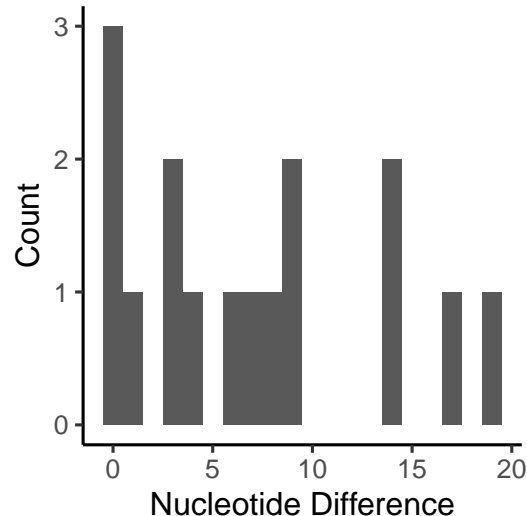
IGHV3-71*02

1 sequences assigned
No exact matches.



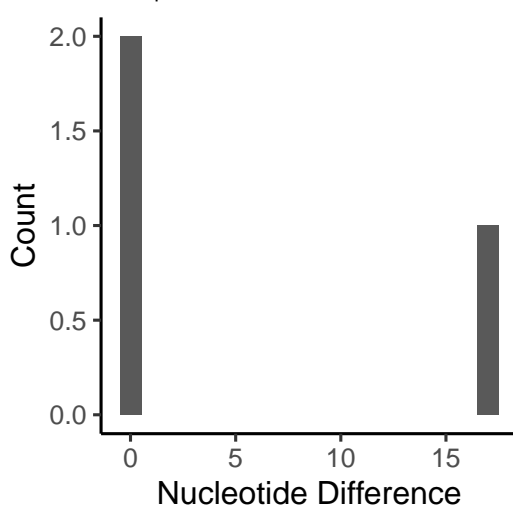
IGHV3-72*01

21 sequences assigned
3 (14.3%) exact matches, in which:
3 unique CDR3
2 unique J



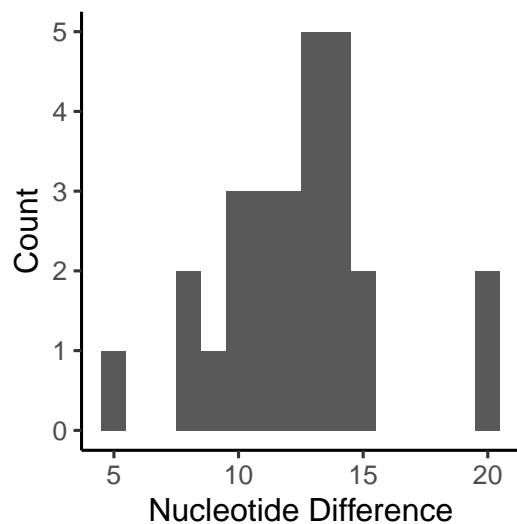
IGHV3-43D*03

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



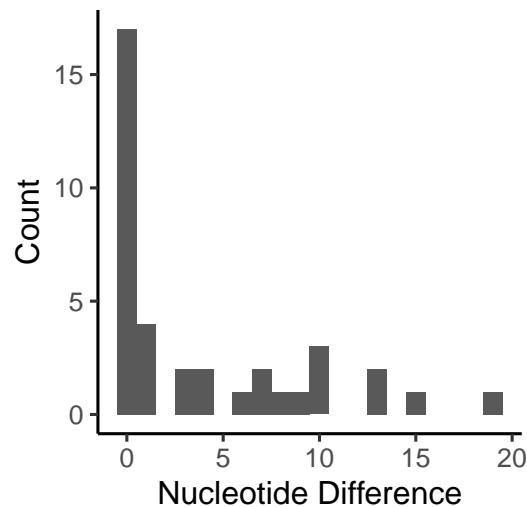
IGHV3-NL1*01

31 sequences assigned
No exact matches.



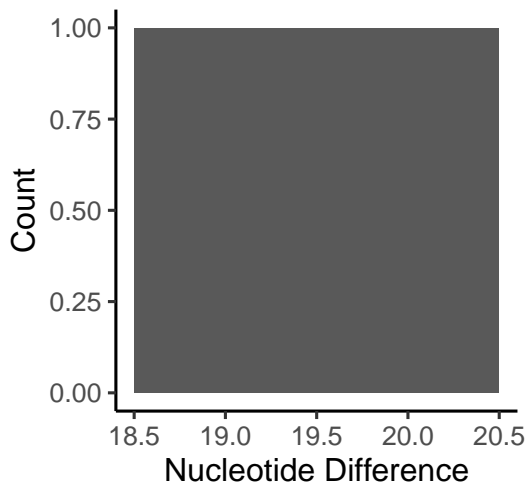
IGHV3-73*01

37 sequences assigned
17 (45.9%) exact matches, in which:
16 unique CDR3
3 unique J



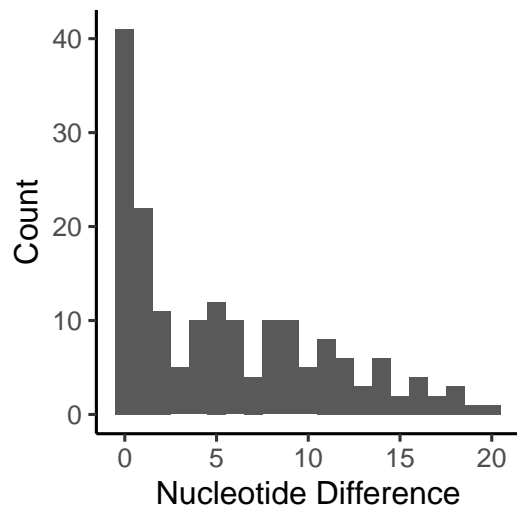
IGHV3-43D*04

3 sequences assigned
No exact matches.



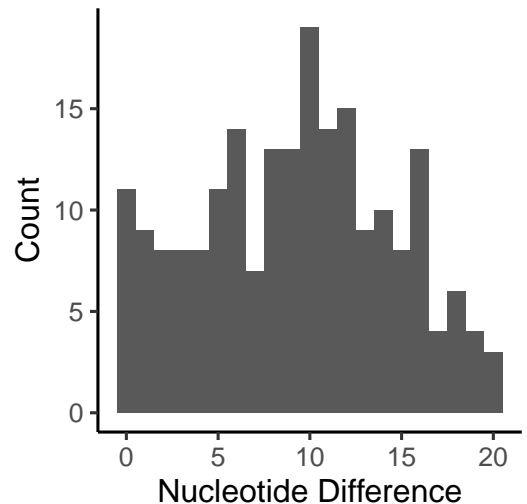
IGHV4-4*02

186 sequences assigned
41 (22%) exact matches, in which:
41 unique CDR3
4 unique J



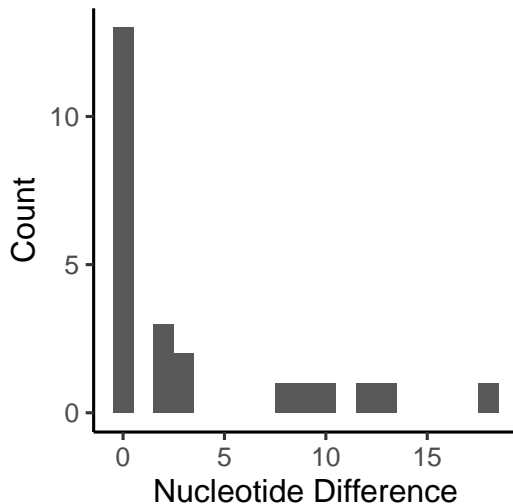
IGHV3-74*01

222 sequences assigned
11 (5%) exact matches, in which:
11 unique CDR3
4 unique J



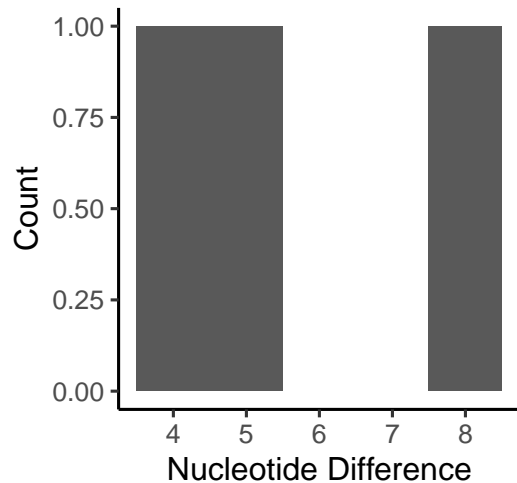
IGHV3-64D*06

25 sequences assigned
13 (52%) exact matches, in which:
13 unique CDR3
4 unique J



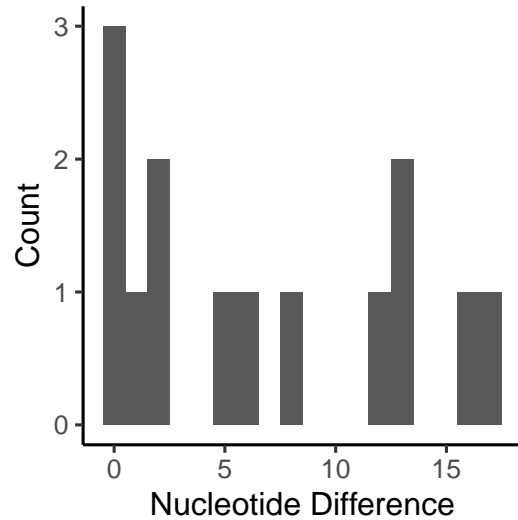
IGHV4-28*01

3 sequences assigned
No exact matches.



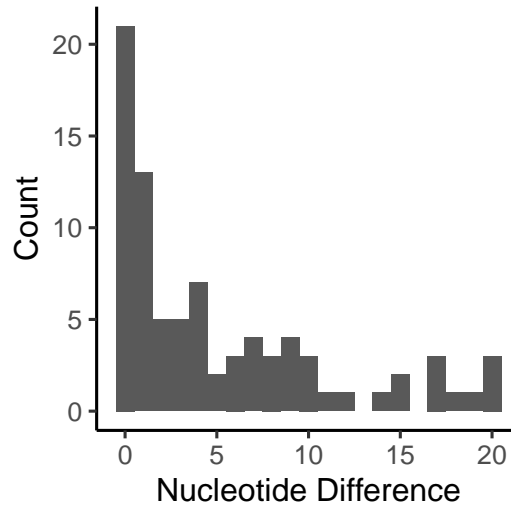
IGHV4-30-2*01

18 sequences assigned
3 (16.7%) exact matches, in which:
3 unique CDR3
1 unique J



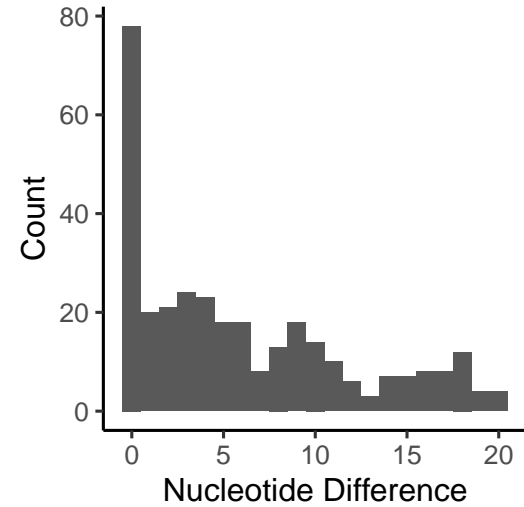
IGHV4-31*03

87 sequences assigned
21 (24.1%) exact matches, in which:
21 unique CDR3
4 unique J



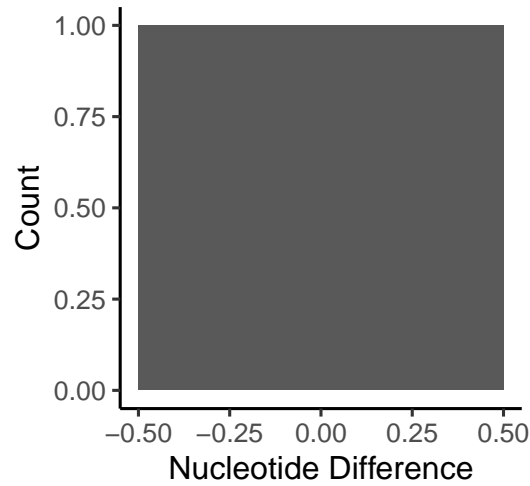
IGHV4-39*01

343 sequences assigned
78 (22.7%) exact matches, in which:
78 unique CDR3
5 unique J



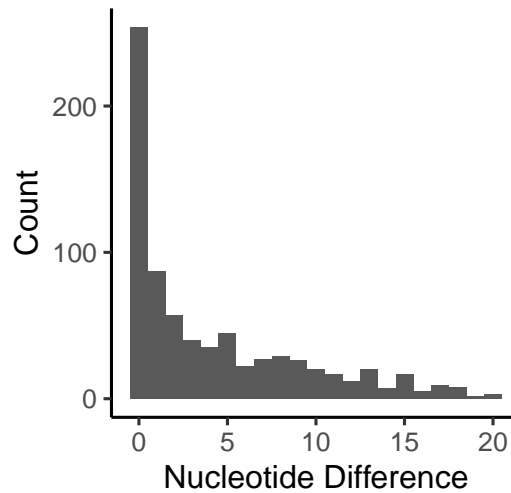
IGHV4-30-4*07

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



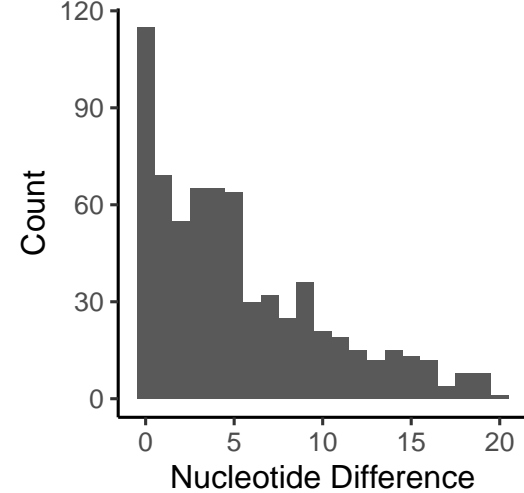
IGHV4-34*01

778 sequences assigned
254 (32.6%) exact matches, in which:
254 unique CDR3
6 unique J



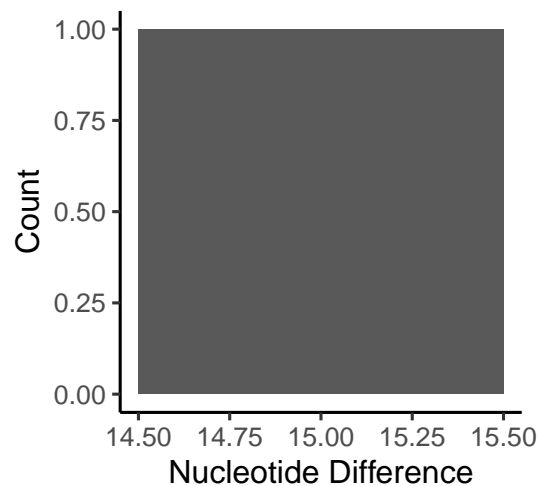
IGHV4-39*07

702 sequences assigned
115 (16.4%) exact matches, in which:
114 unique CDR3
6 unique J



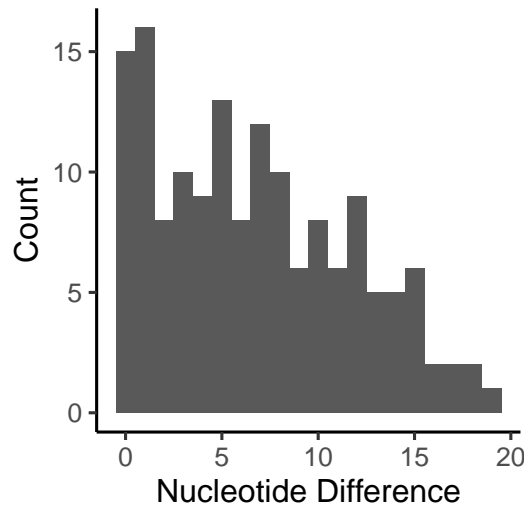
IGHV4-30-4*08

1 sequences assigned
No exact matches.



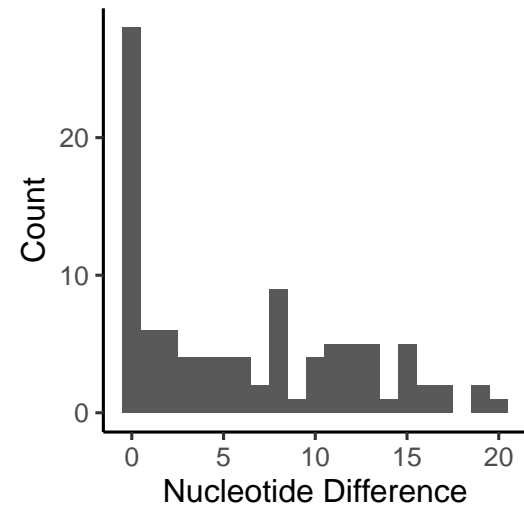
IGHV4-38-2*02

157 sequences assigned
15 (9.6%) exact matches, in which:
15 unique CDR3
4 unique J



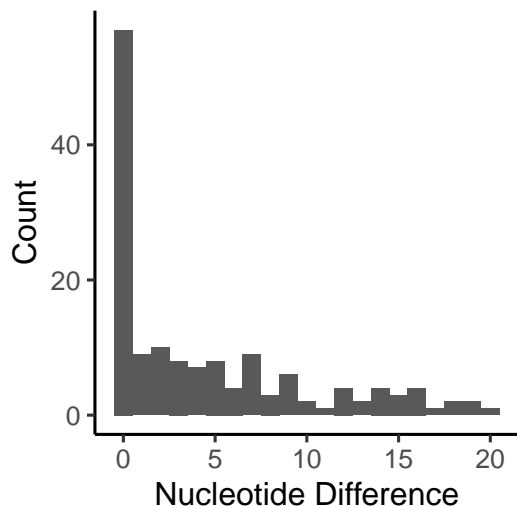
IGHV4-59*01

103 sequences assigned
28 (27.2%) exact matches, in which:
28 unique CDR3
4 unique J



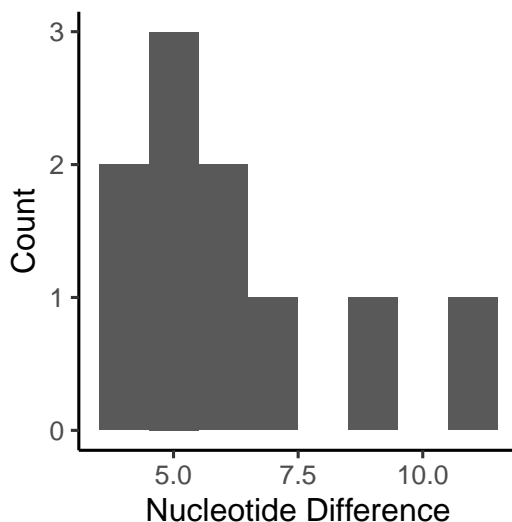
IGHV4-59*08

149 sequences assigned
57 (38.3%) exact matches, in which:
57 unique CDR3
6 unique J



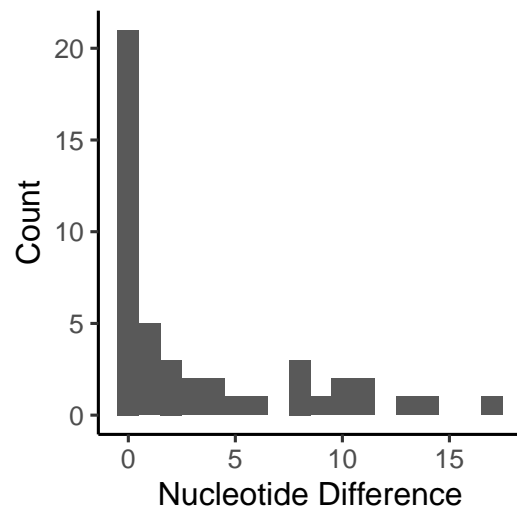
IGHV4-61*05

10 sequences assigned
No exact matches.



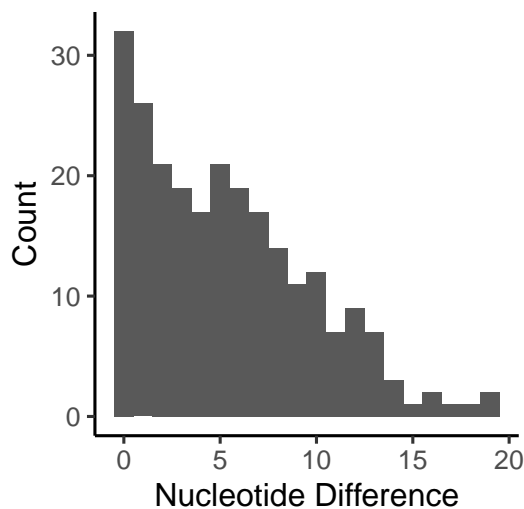
IGHV5-51*01

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



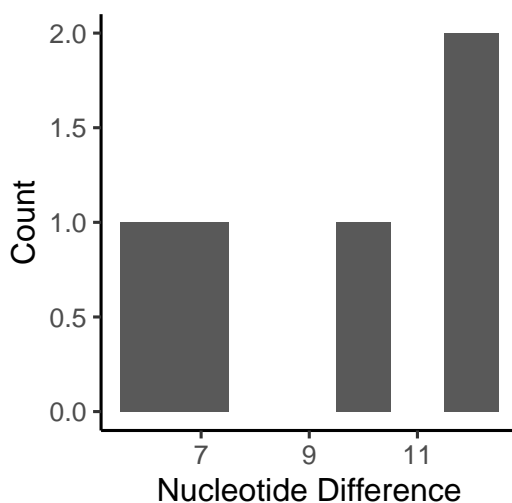
IGHV4-59*12

247 sequences assigned
32 (13%) exact matches, in which:
32 unique CDR3
4 unique J



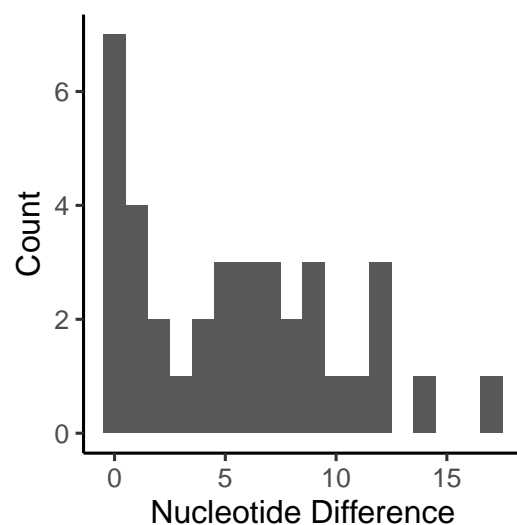
IGHV4-61*08

5 sequences assigned
No exact matches.



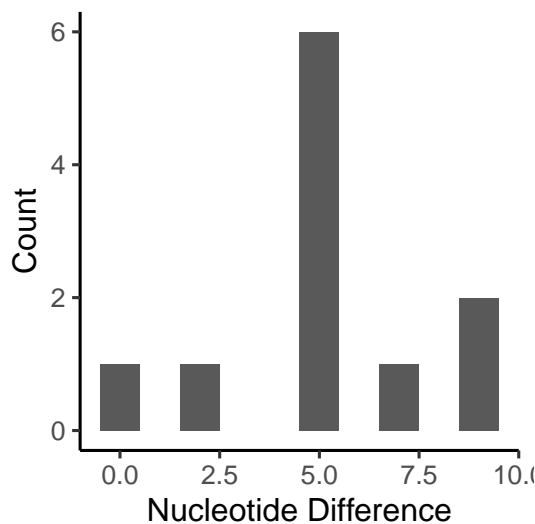
IGHV5-51*03

39 sequences assigned
7 (17.9%) exact matches, in which:
7 unique CDR3
6 unique J



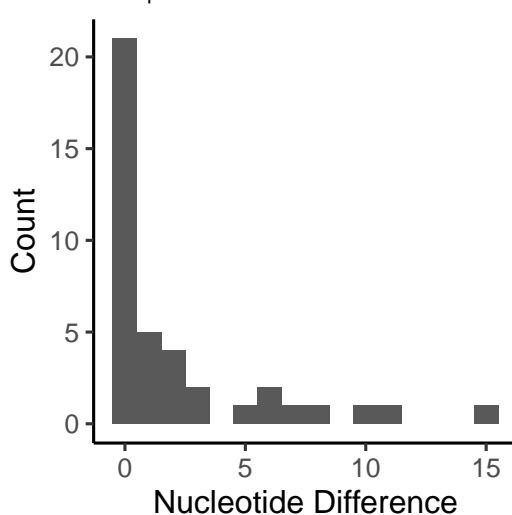
IGHV4-61*01

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



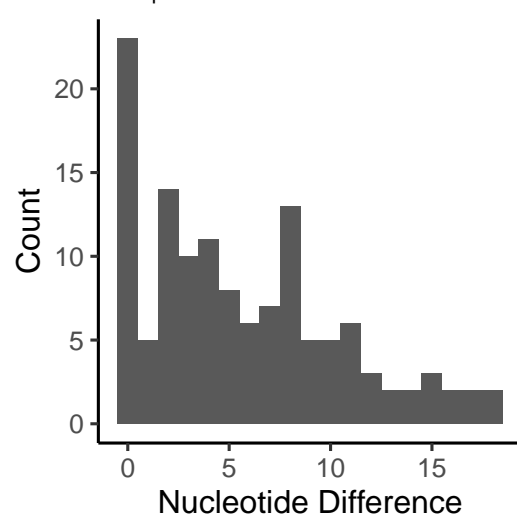
IGHV5-10-1*03

40 sequences assigned
21 (52.5%) exact matches, in which:
21 unique CDR3
5 unique J



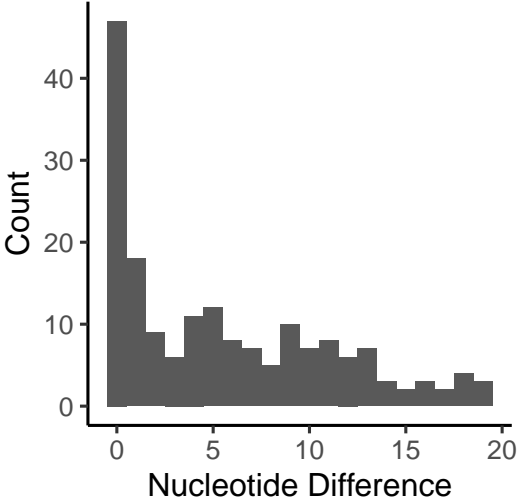
IGHV6-1*01

132 sequences assigned
23 (17.4%) exact matches, in which:
22 unique CDR3
4 unique J



IGHV7-4-1*02

184 sequences assigned
47 (25.5%) exact matches, in which:
46 unique CDR3
6 unique J





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–39*07_C288A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.