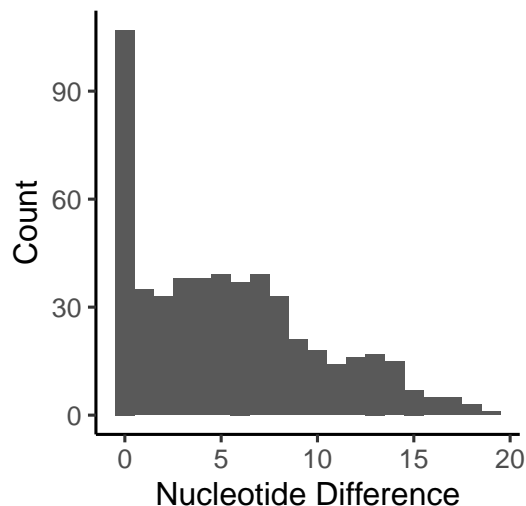


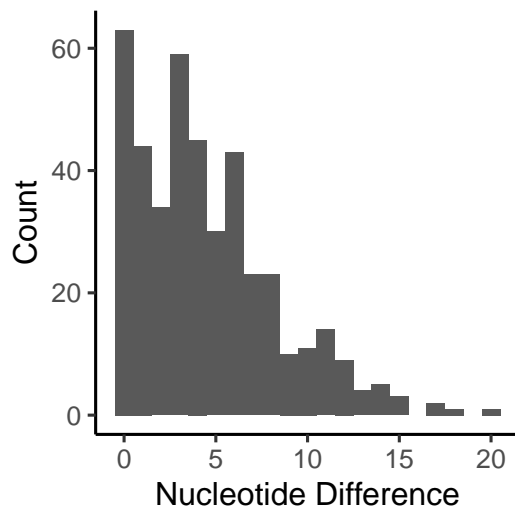
IGHV1-2*02

525 sequences assigned
107 (20.4%) exact matches, in which:
101 unique CDR3
5 unique J



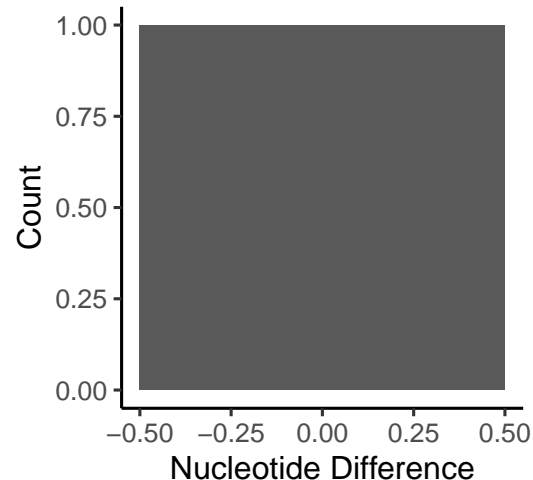
IGHV1-8*01

426 sequences assigned
63 (14.8%) exact matches, in which:
62 unique CDR3
4 unique J



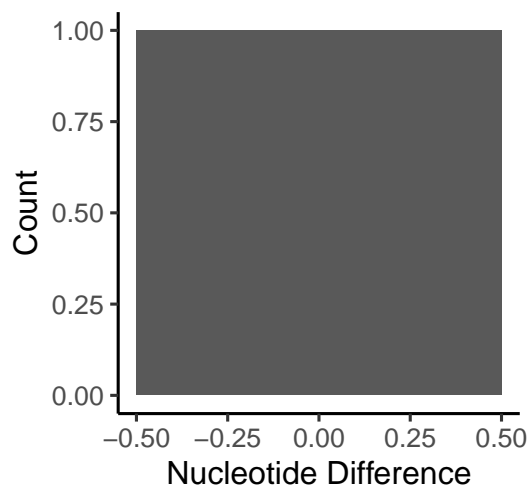
IGHV1-45*02

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



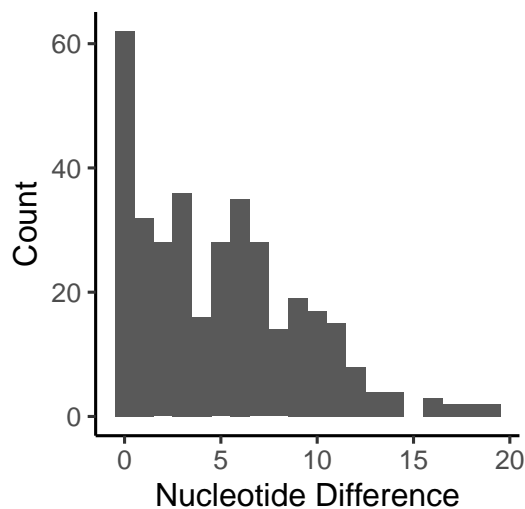
IGHV1-3*02

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



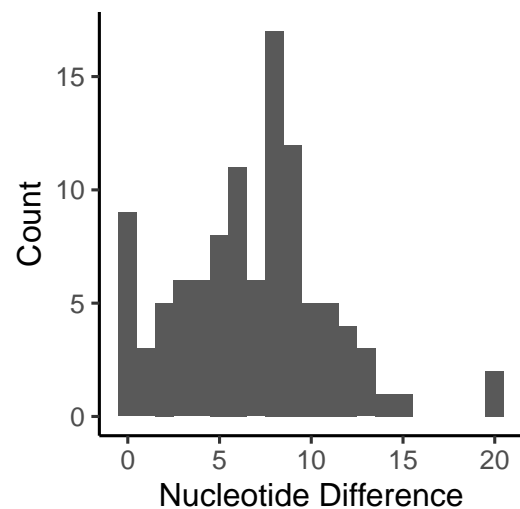
IGHV1-18*01

358 sequences assigned
62 (17.3%) exact matches, in which:
57 unique CDR3
6 unique J



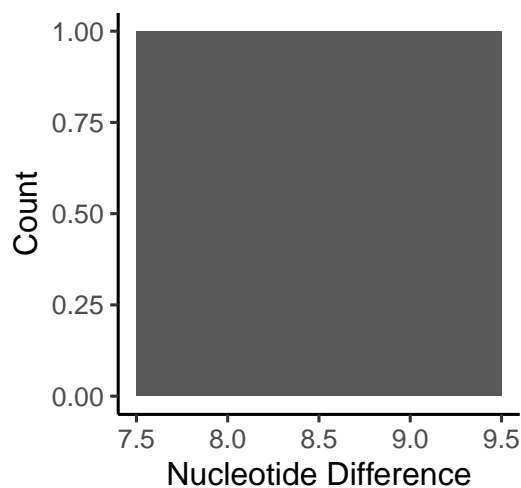
IGHV1-46*01

104 sequences assigned
9 (8.7%) exact matches, in which:
9 unique CDR3
3 unique J



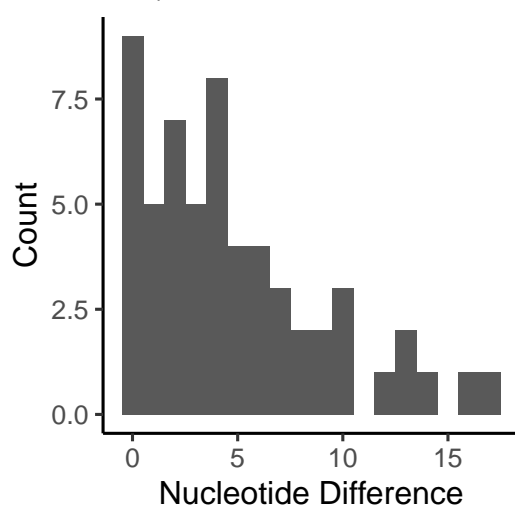
IGHV1-3*01_05

2 sequences assigned
No exact matches.



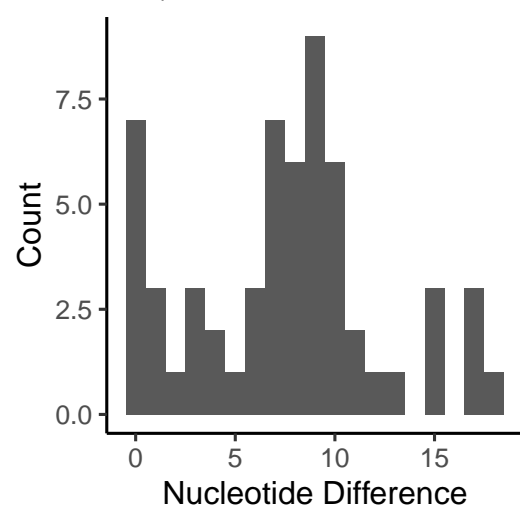
IGHV1-24*01

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



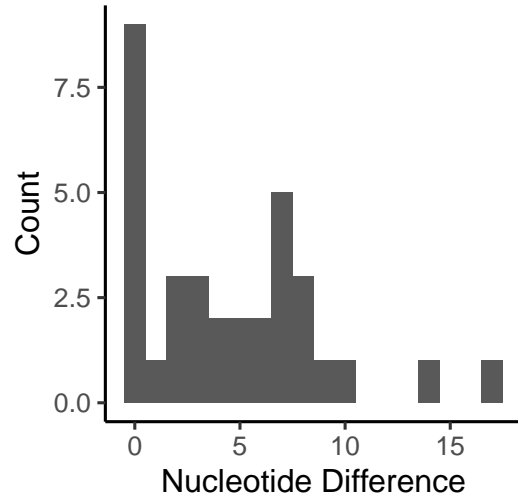
IGHV1-46*03

59 sequences assigned
7 (11.9%) exact matches, in which:
7 unique CDR3
4 unique J



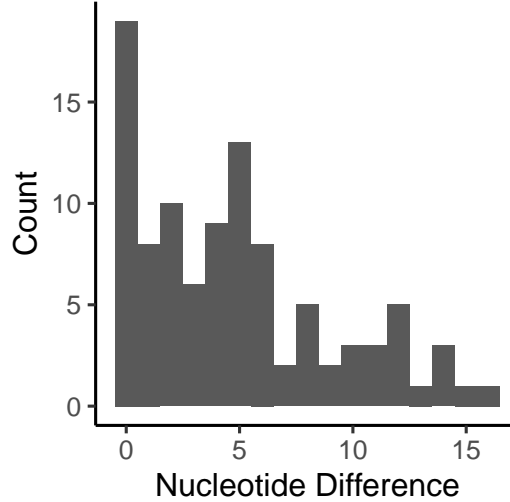
IGHV1-58*01_03

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



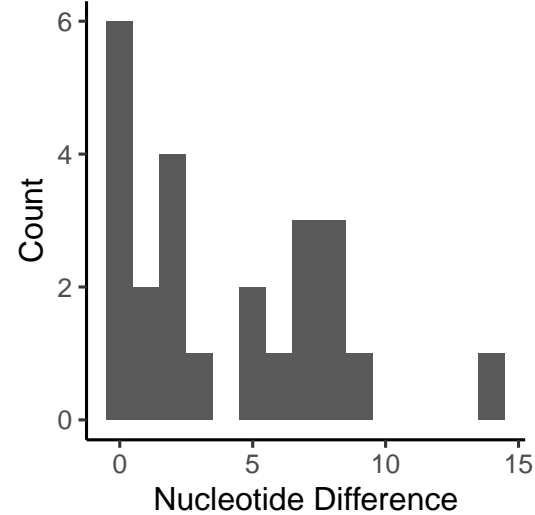
IGHV1-69*06_14

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



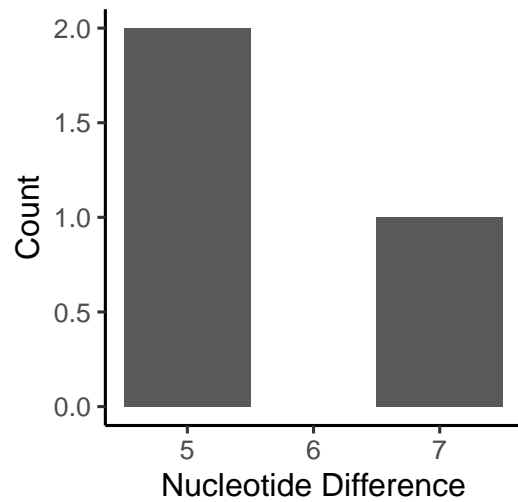
IGHV2-26*01

24 sequences assigned
6 (25%) exact matches, in which:
6 unique CDR3
3 unique J



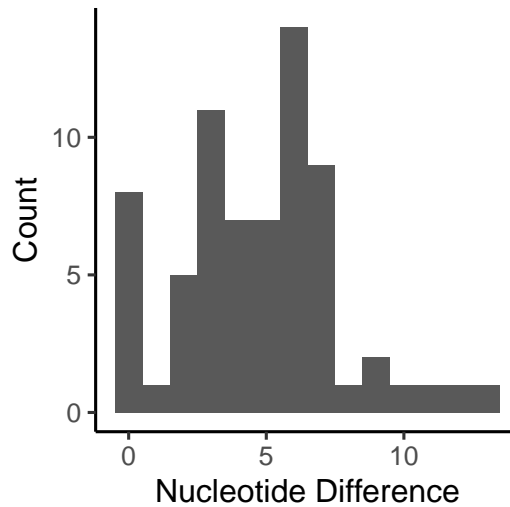
IGHV1-69-2*01

3 sequences assigned
No exact matches.



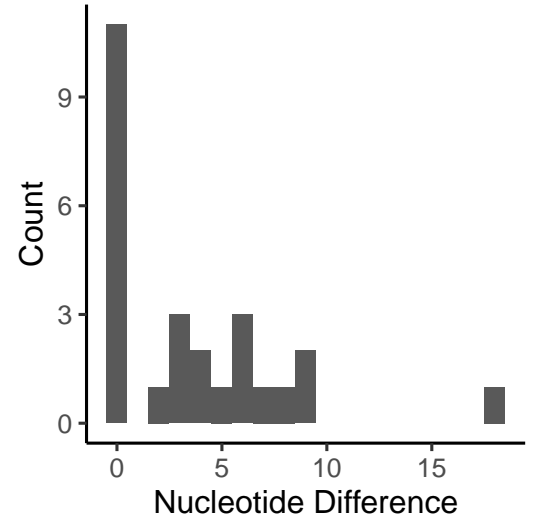
IGHV2-5*01

69 sequences assigned
8 (11.6%) exact matches, in which:
8 unique CDR3
3 unique J



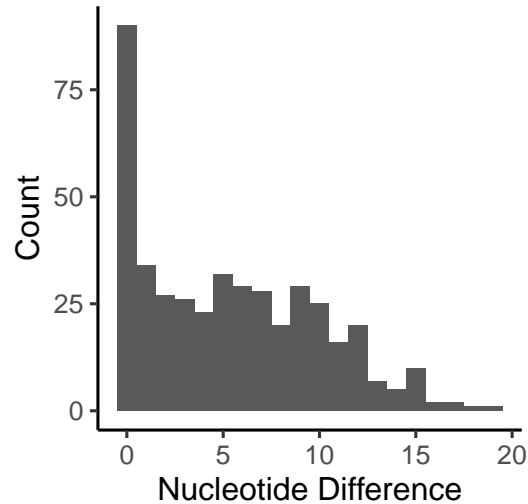
IGHV2-70*01

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



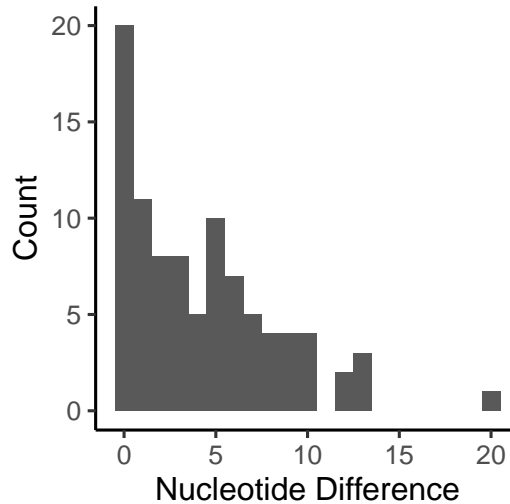
IGHV1-69*01_12_13

427 sequences assigned
90 (21.1%) exact matches, in which:
88 unique CDR3
6 unique J



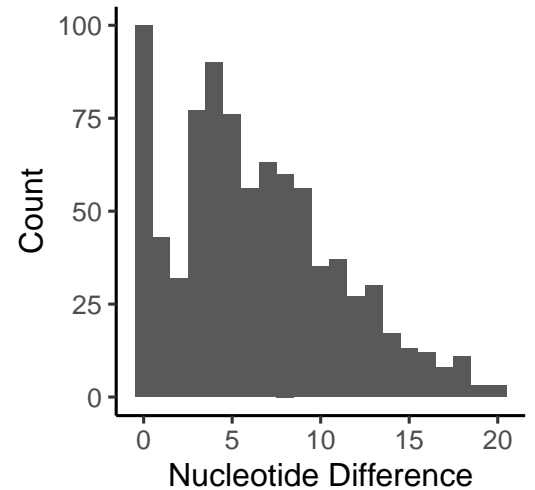
IGHV2-5*02

94 sequences assigned
20 (21.3%) exact matches, in which:
18 unique CDR3
4 unique J



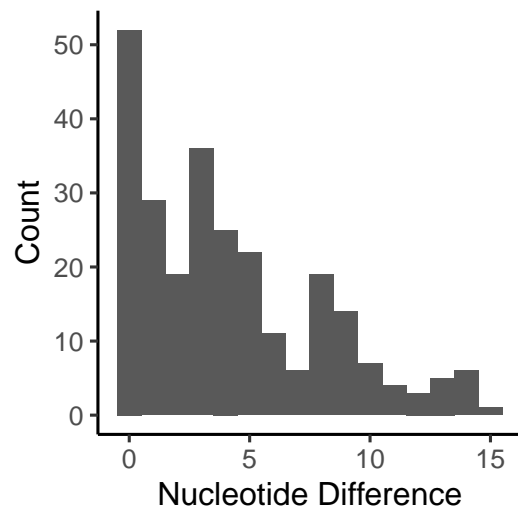
IGHV3-7*01

854 sequences assigned
100 (11.7%) exact matches, in which:
72 unique CDR3
6 unique J



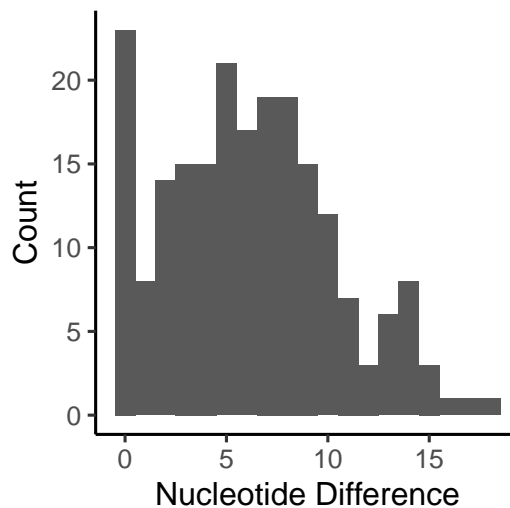
IGHV3-9*01

259 sequences assigned
52 (20.1%) exact matches, in which:
43 unique CDR3
4 unique J



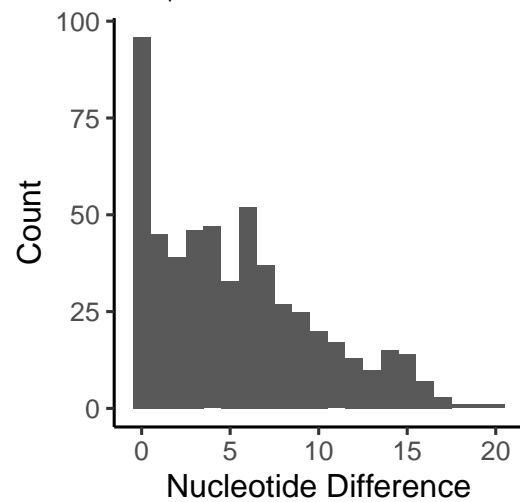
IGHV3-15*01_02

209 sequences assigned
23 (11%) exact matches, in which:
15 unique CDR3
3 unique J



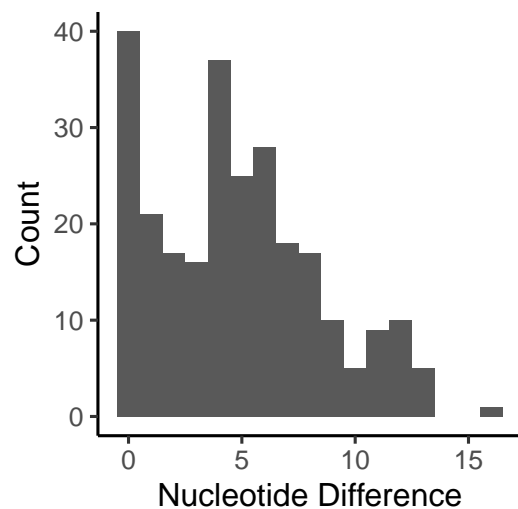
IGHV3-21*01_02

550 sequences assigned
96 (17.5%) exact matches, in which:
76 unique CDR3
6 unique J



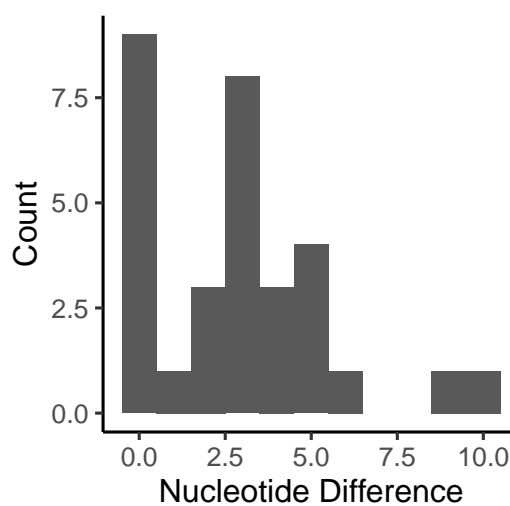
IGHV3-11*01

260 sequences assigned
40 (15.4%) exact matches, in which:
33 unique CDR3
6 unique J



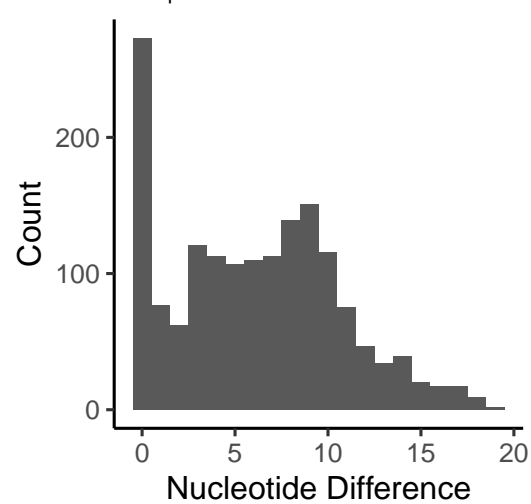
IGHV3-20*01_02

31 sequences assigned
9 (29%) exact matches, in which:
6 unique CDR3
3 unique J



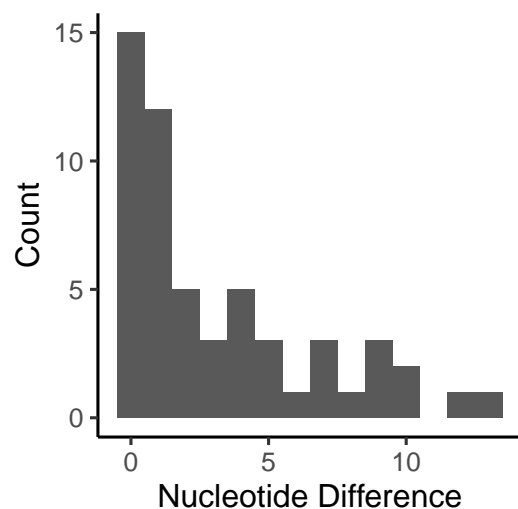
IGHV3-23*01_04

1651 sequences assigned
273 (16.5%) exact matches, in which:
183 unique CDR3
5 unique J



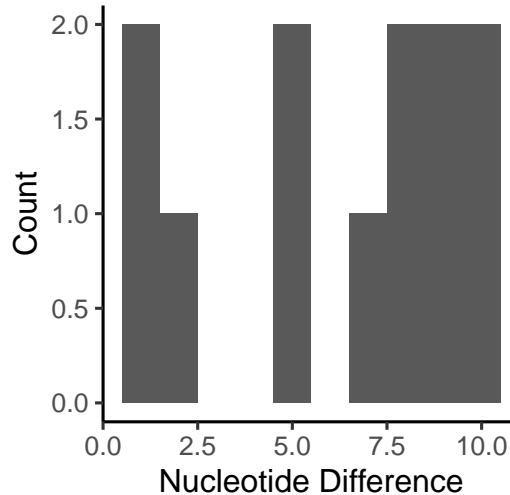
IGHV3-13*01

55 sequences assigned
15 (27.3%) exact matches, in which:
11 unique CDR3
5 unique J



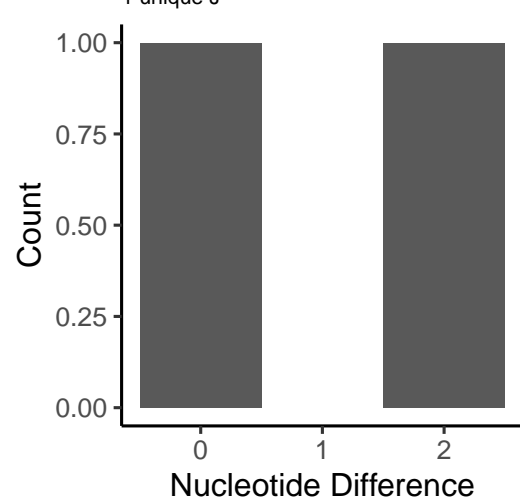
IGHV3-20*03_04

12 sequences assigned
No exact matches.



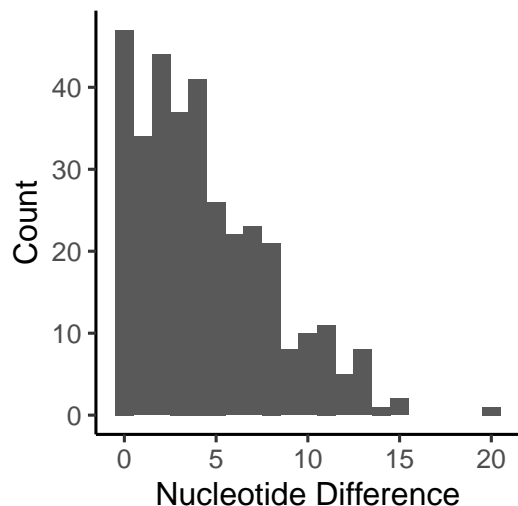
IGHV3-30-3*01

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



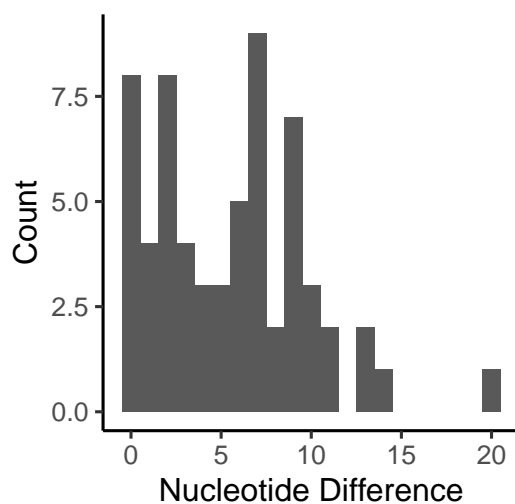
IGHV3-30*03

344 sequences assigned
47 (13.7%) exact matches, in which:
33 unique CDR3
4 unique J



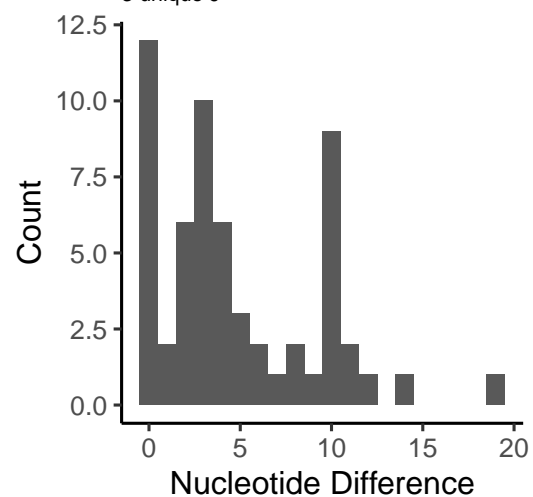
IGHV3-43*01

62 sequences assigned
8 (12.9%) exact matches, in which:
7 unique CDR3
3 unique J



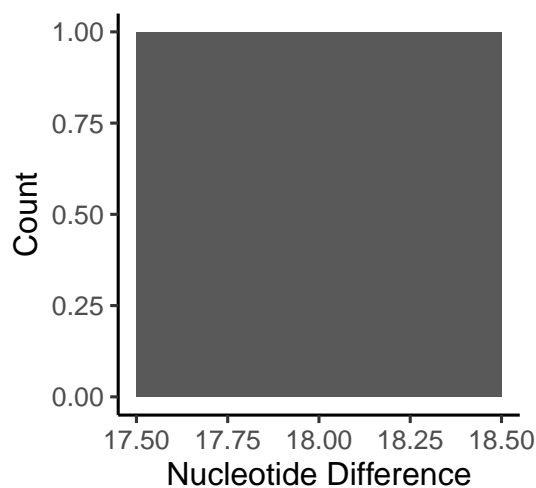
IGHV3-49*03_05

61 sequences assigned
12 (19.7%) exact matches, in which:
10 unique CDR3
3 unique J



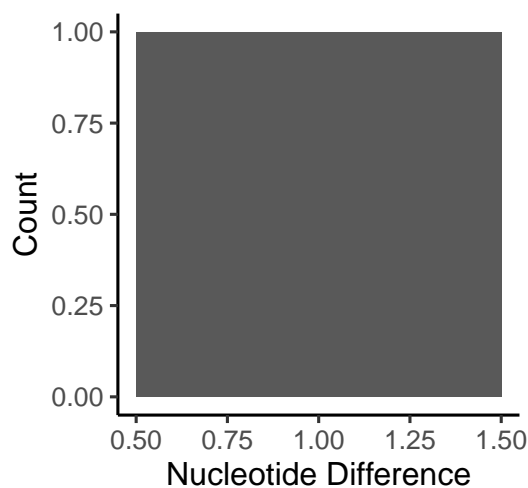
IGHV3-30-3*03

1 sequences assigned
No exact matches.



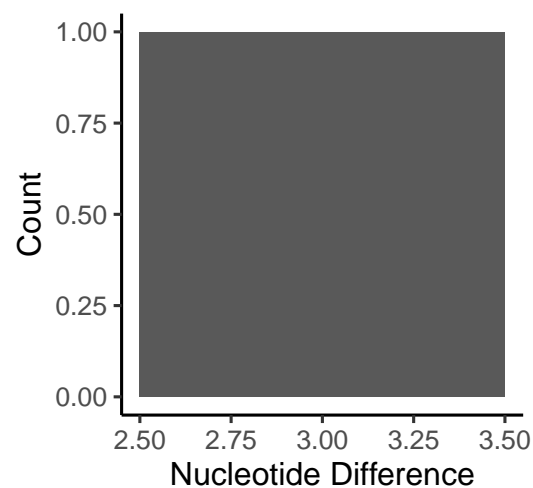
IGHV3-47*02

1 sequences assigned
No exact matches.



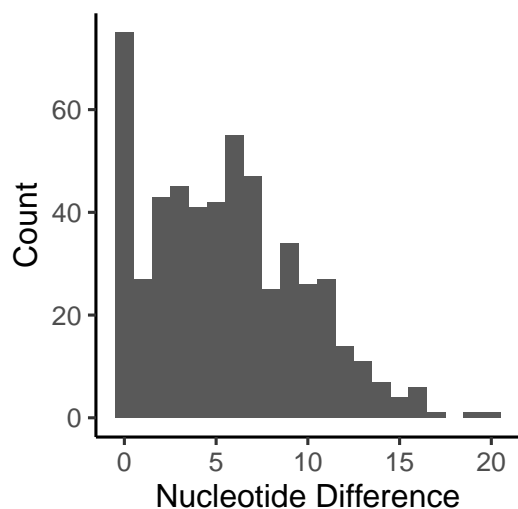
IGHV3-52*01_03

1 sequences assigned
No exact matches.



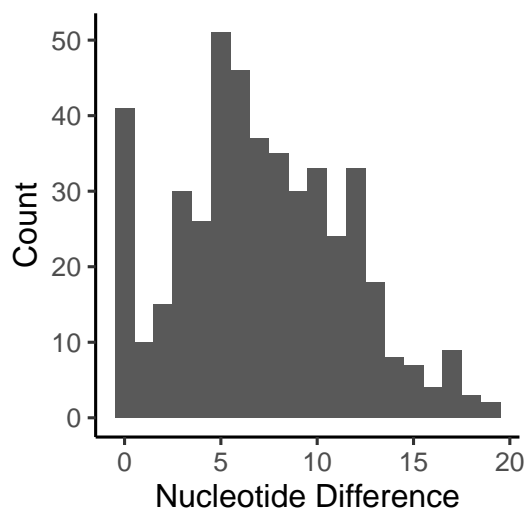
IGHV3-33*01

532 sequences assigned
75 (14.1%) exact matches, in which:
57 unique CDR3
5 unique J



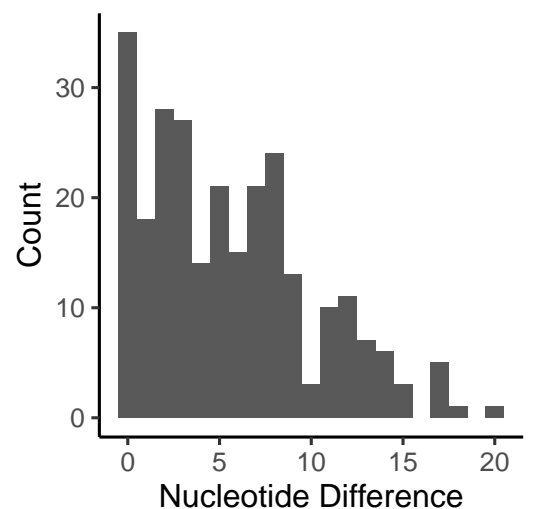
IGHV3-48*02

465 sequences assigned
41 (8.8%) exact matches, in which:
30 unique CDR3
4 unique J



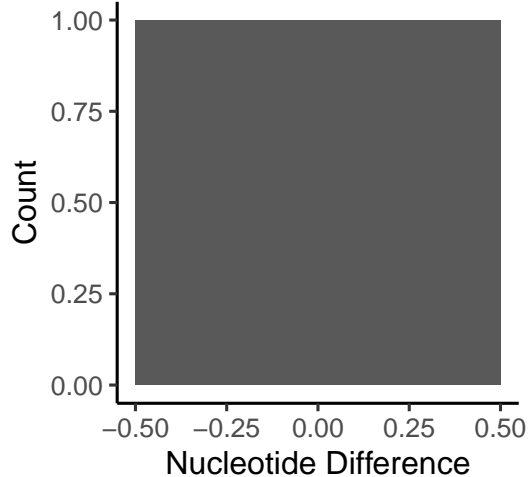
IGHV3-53*01_02

264 sequences assigned
35 (13.3%) exact matches, in which:
30 unique CDR3
5 unique J



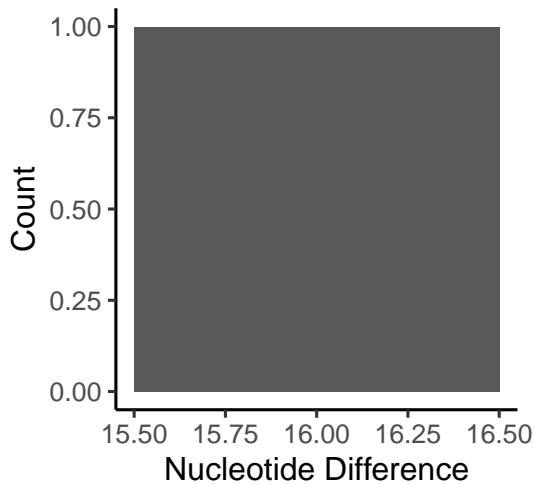
IGHV3-64*02_07

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



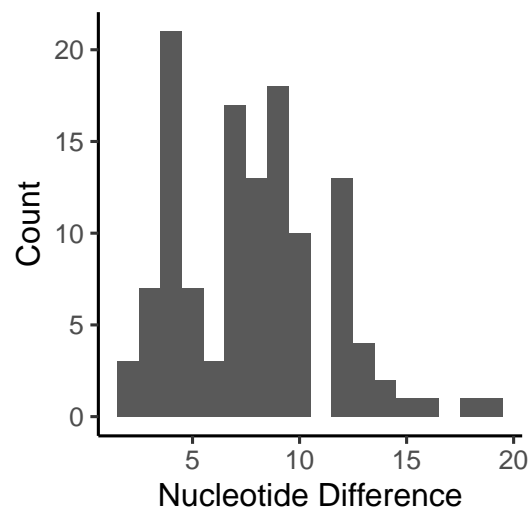
IGHV3-69-1*02

1 sequences assigned
No exact matches.



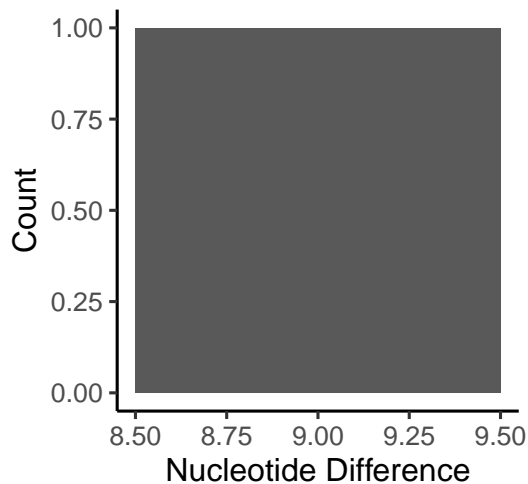
IGHV3-74*03

124 sequences assigned
No exact matches.



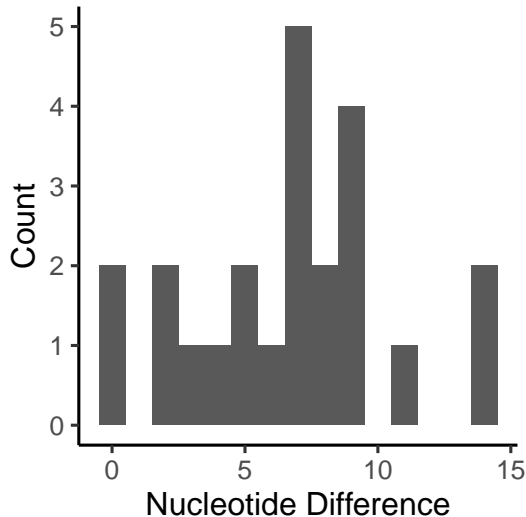
IGHV3-66*01

2 sequences assigned
No exact matches.



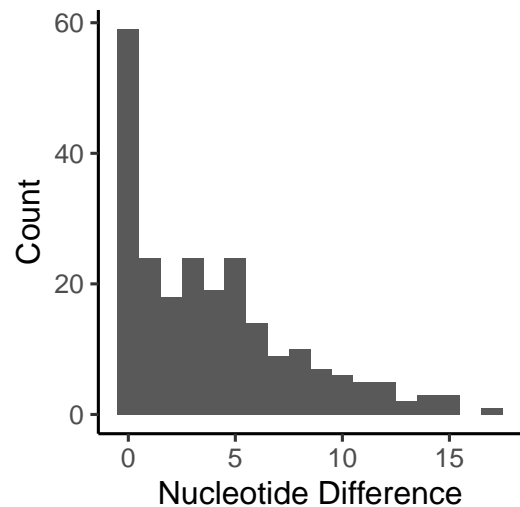
IGHV3-72*01

23 sequences assigned
2 (8.7%) exact matches, in which:
1 unique CDR3
1 unique J



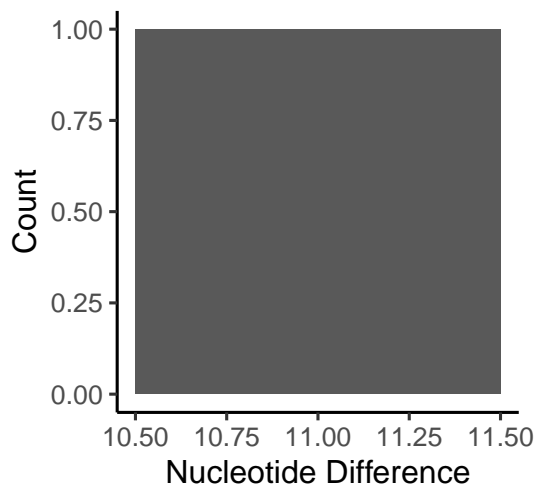
IGHV3-74*01_02

233 sequences assigned
59 (25.3%) exact matches, in which:
39 unique CDR3
4 unique J



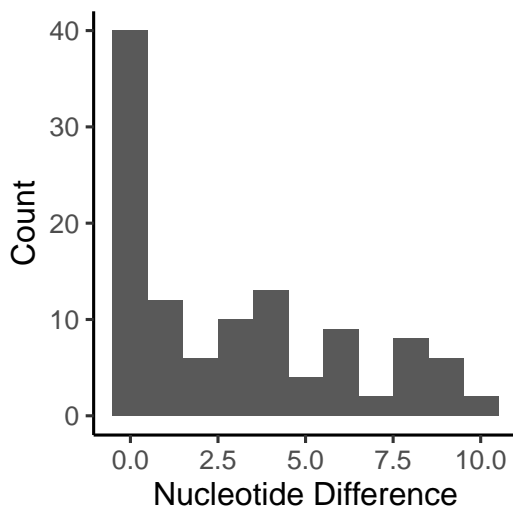
IGHV3-69-1*01

1 sequences assigned
No exact matches.



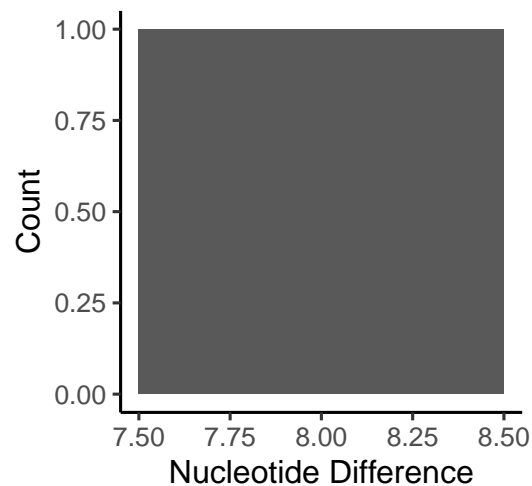
IGHV3-73*01_02

112 sequences assigned
40 (35.7%) exact matches, in which:
24 unique CDR3
4 unique J



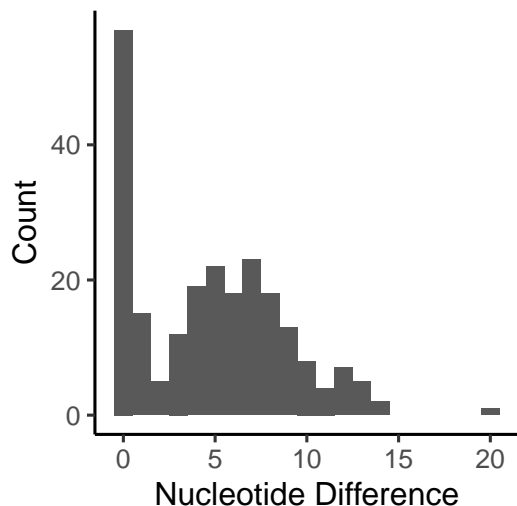
IGHV3-64D*09

2 sequences assigned
No exact matches.



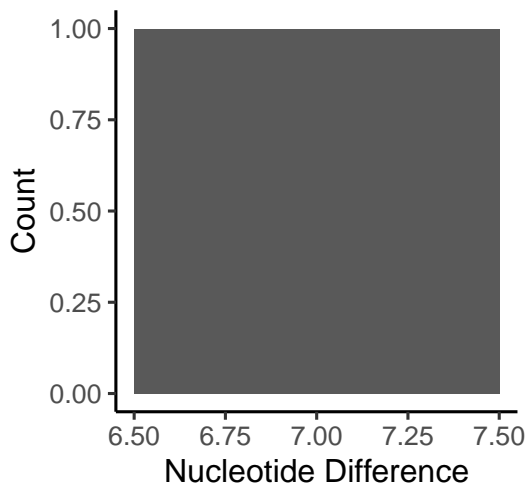
IGHV4-4*07

229 sequences assigned
57 (24.9%) exact matches, in which:
37 unique CDR3
4 unique J



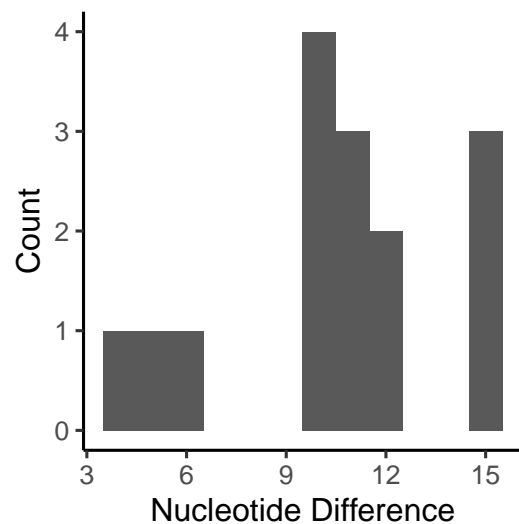
IGHV4-30-2*03

1 sequences assigned
No exact matches.



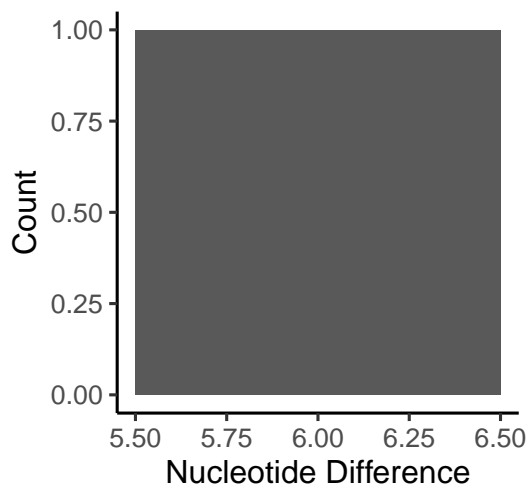
IGHV4-39*02

15 sequences assigned
No exact matches.



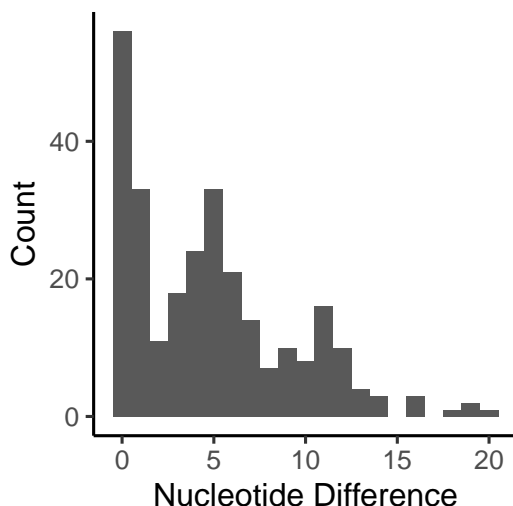
IGHV4-30-4*01

1 sequences assigned
No exact matches.



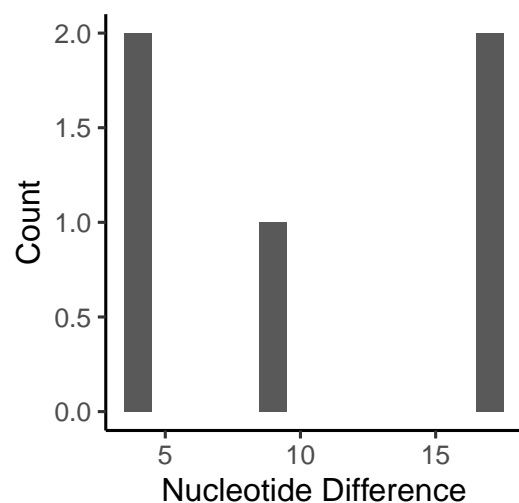
IGHV4-31*02

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



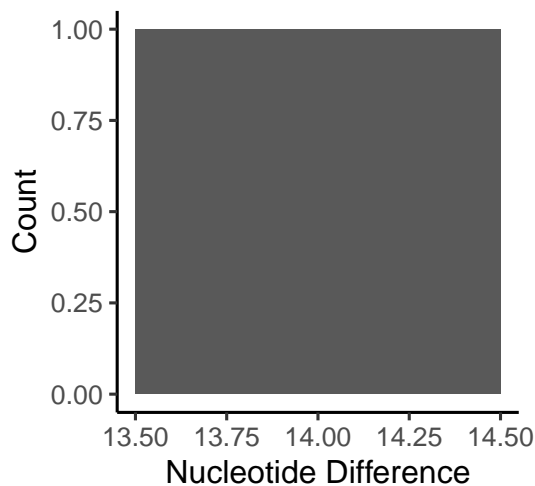
IGHV4-39*07

10 sequences assigned
No exact matches.



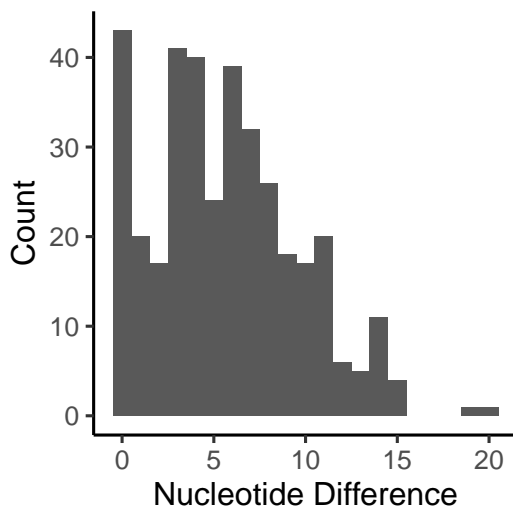
IGHV4-30-2*01

2 sequences assigned
No exact matches.



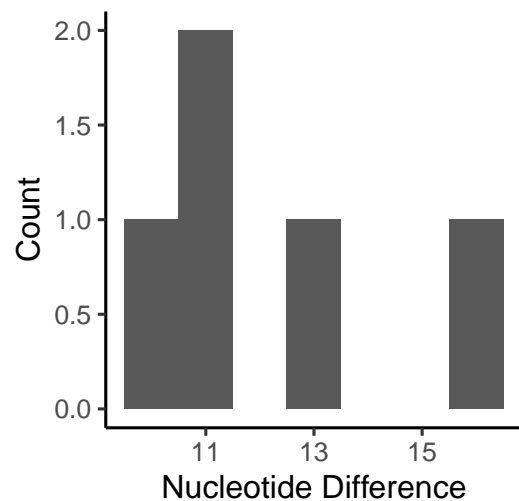
IGHV4-34*01_02

369 sequences assigned
43 (11.7%) exact matches, in which:
38 unique CDR3
4 unique J



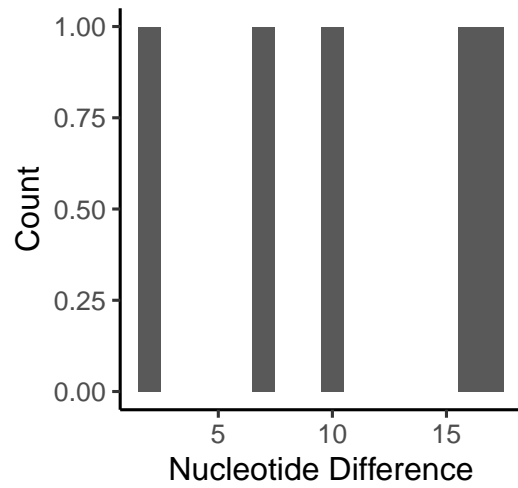
IGHV4-59*02

5 sequences assigned
No exact matches.



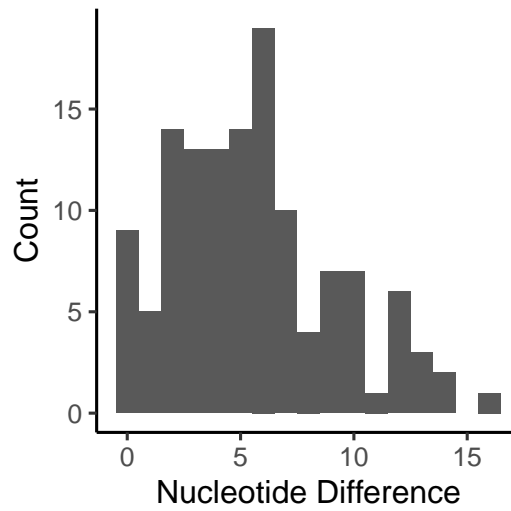
IGHV4–59*08

6 sequences assigned
No exact matches.



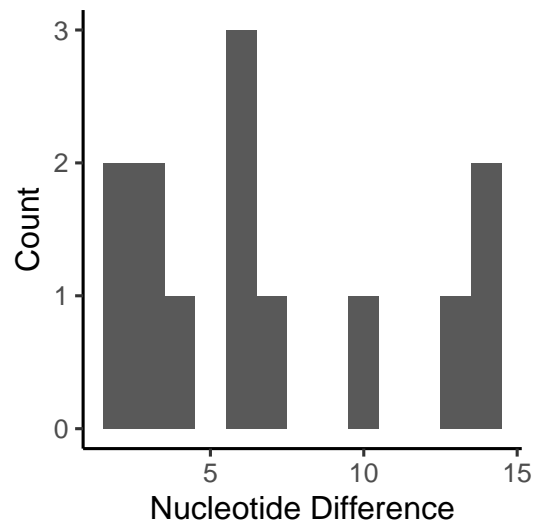
IGHV4–61*01

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



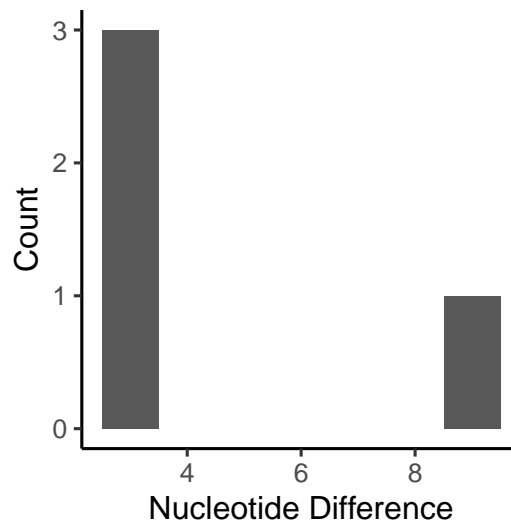
IGHV4–59*11

13 sequences assigned
No exact matches.



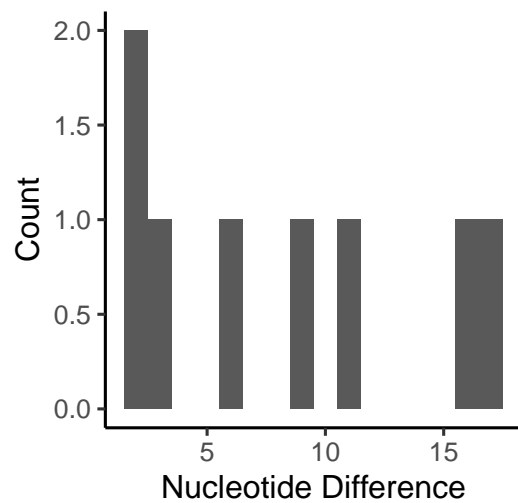
IGHV4/OR15–8*01

5 sequences assigned
No exact matches.



IGHV4–59*12

8 sequences assigned
No exact matches.



IGHV6–1*01_02

95 sequences assigned
12 (12.6%) exact matches, in which:
12 unique CDR3
5 unique J

