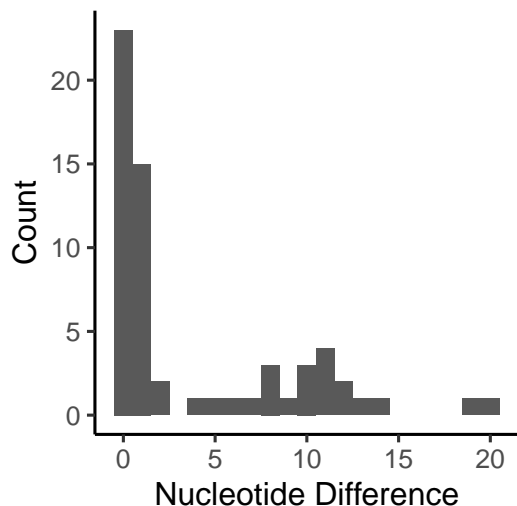


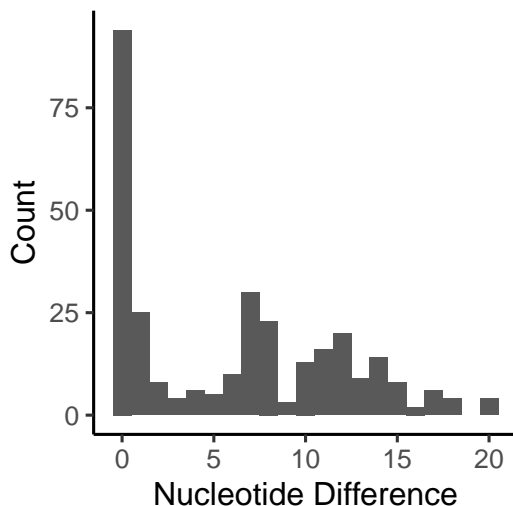
IGHV1-2*04

69 sequences assigned
23 (33.3%) exact matches, in which:
21 unique CDR3
3 unique J



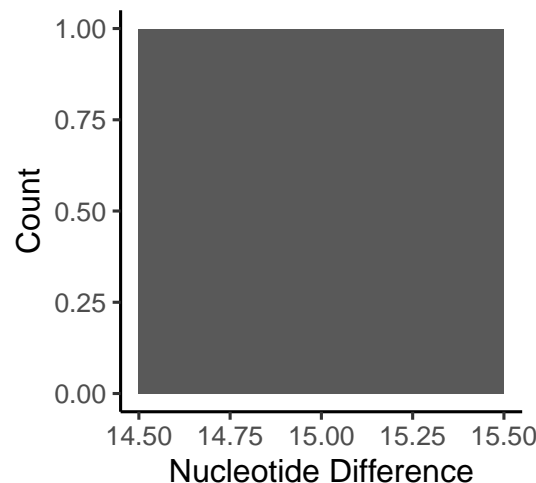
IGHV1-18*04

444 sequences assigned
94 (21.2%) exact matches, in which:
91 unique CDR3
6 unique J



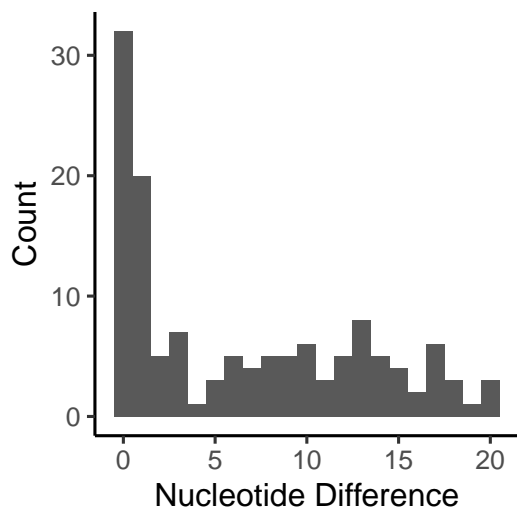
IGHV1-58*02

20 sequences assigned
No exact matches.



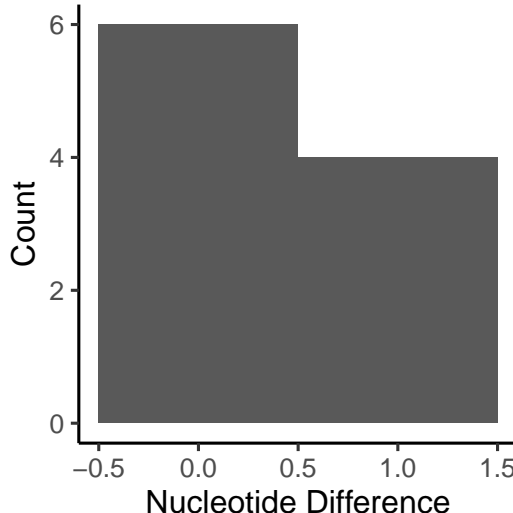
IGHV1-3*01_05

149 sequences assigned
32 (21.5%) exact matches, in which:
31 unique CDR3
6 unique J



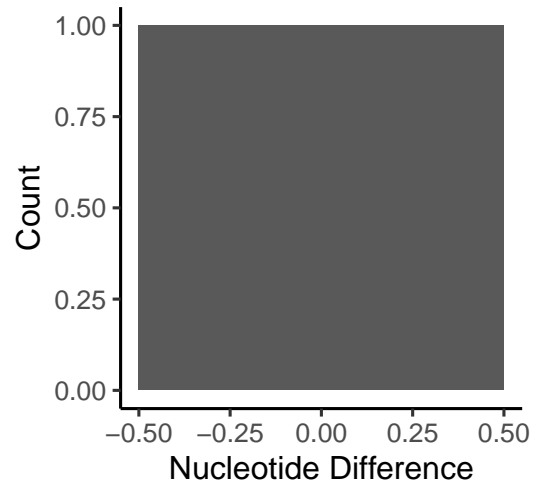
IGHV1-24*01

10 sequences assigned
6 (60%) exact matches, in which:
5 unique CDR3
4 unique J



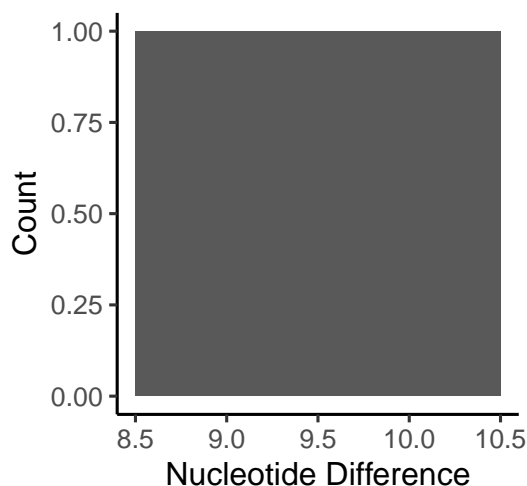
IGHV1-69-2*01

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



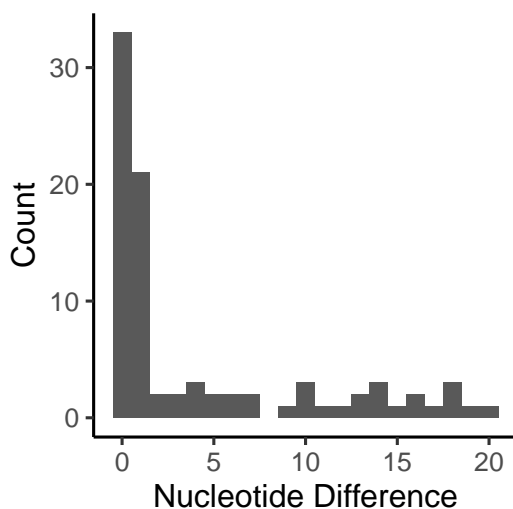
IGHV1-8*01

3 sequences assigned
No exact matches.



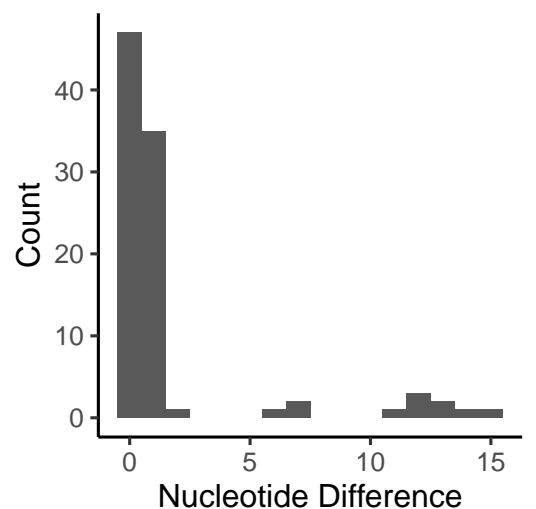
IGHV1-46*01

124 sequences assigned
33 (26.6%) exact matches, in which:
29 unique CDR3
4 unique J



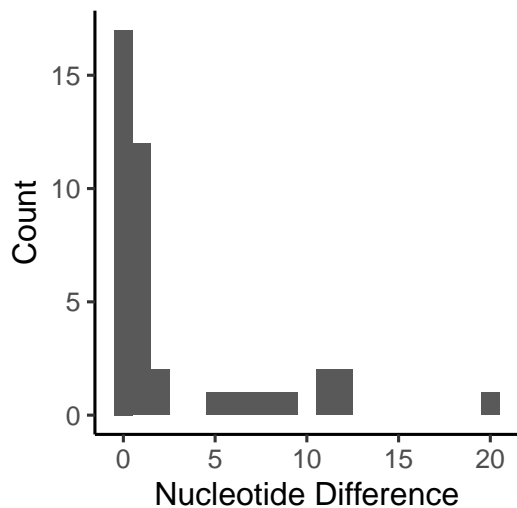
IGHV1-69*01_12_13

97 sequences assigned
47 (48.5%) exact matches, in which:
41 unique CDR3
3 unique J



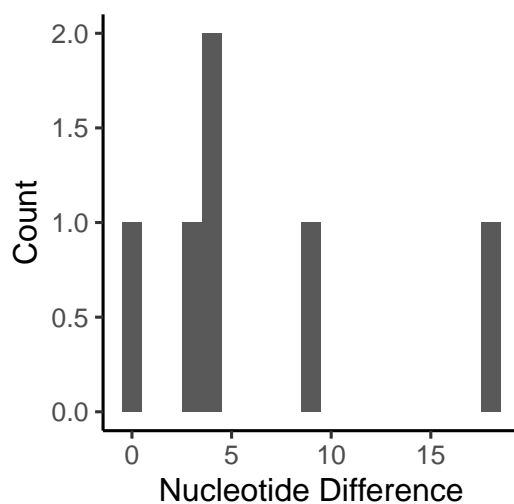
IGHV1-69*04_09

48 sequences assigned
17 (35.4%) exact matches, in which:
17 unique CDR3
4 unique J



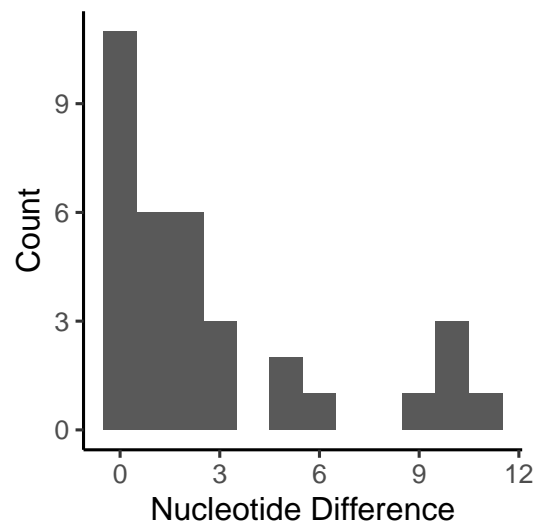
IGHV2-5*02

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



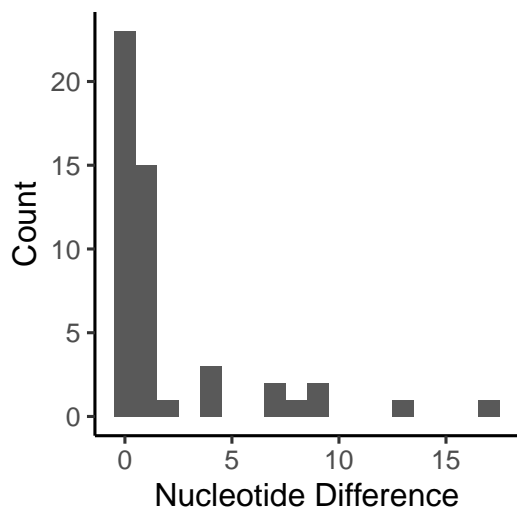
IGHV2-70*11_15

34 sequences assigned
11 (32.4%) exact matches, in which:
9 unique CDR3
2 unique J



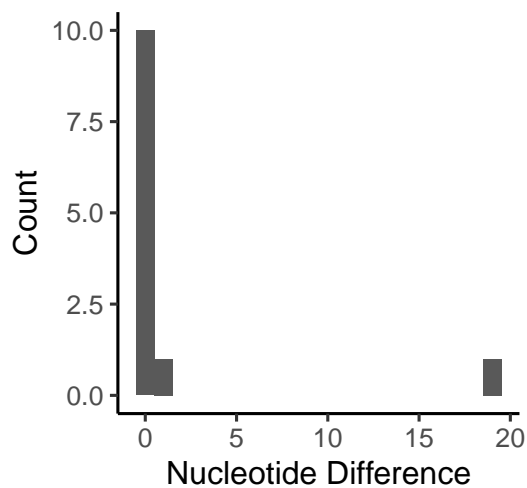
IGHV1-69*06_14

50 sequences assigned
23 (46%) exact matches, in which:
22 unique CDR3
4 unique J



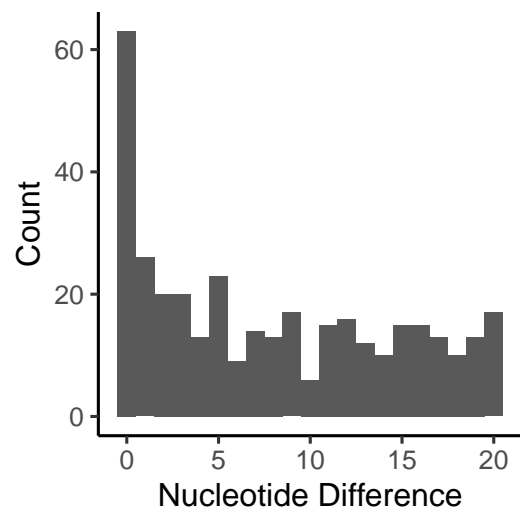
IGHV2-26*01

12 sequences assigned
10 (83.3%) exact matches, in which:
9 unique CDR3
3 unique J



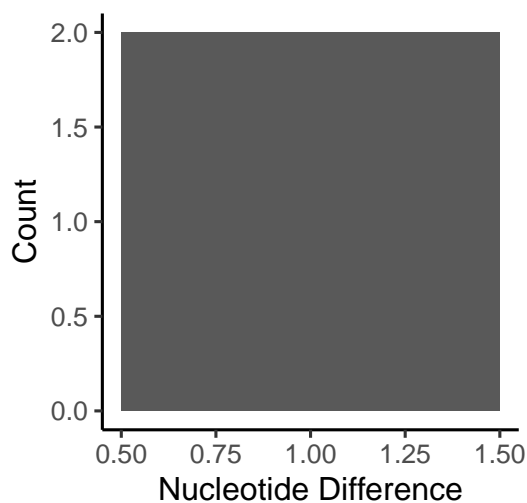
IGHV3-7*03

440 sequences assigned
63 (14.3%) exact matches, in which:
35 unique CDR3
4 unique J



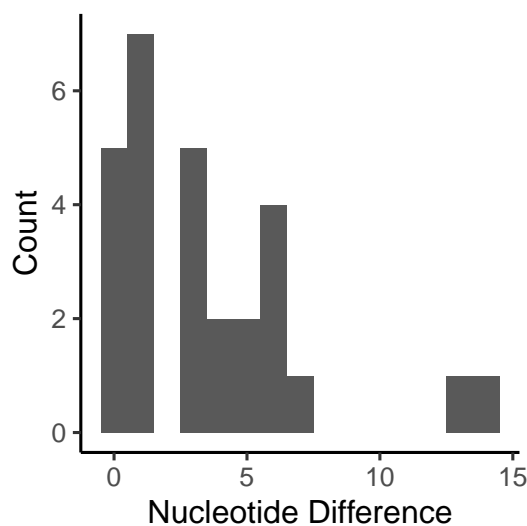
IGHV2-5*01

2 sequences assigned
No exact matches.



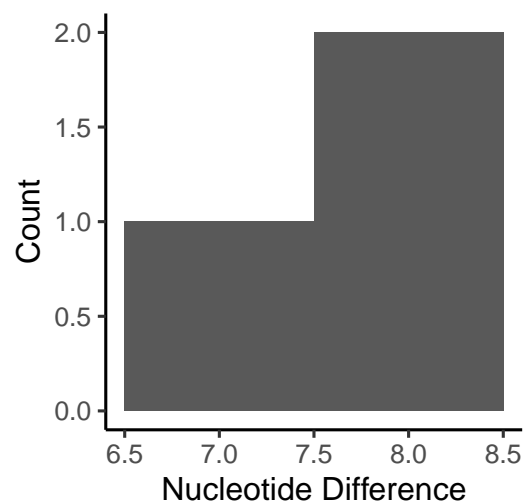
IGHV2-70*01

28 sequences assigned
5 (17.9%) exact matches, in which:
5 unique CDR3
4 unique J



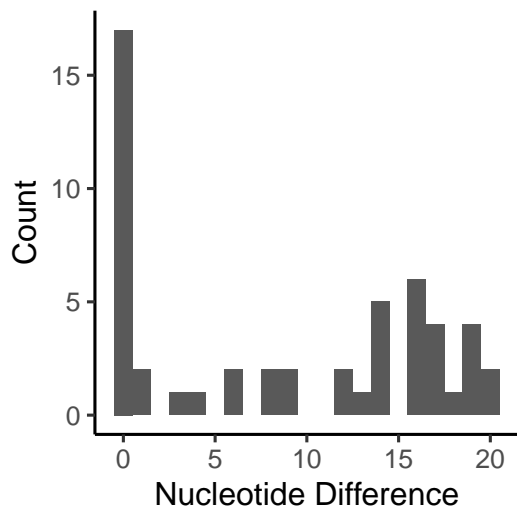
IGHV3-9*01

4 sequences assigned
No exact matches.



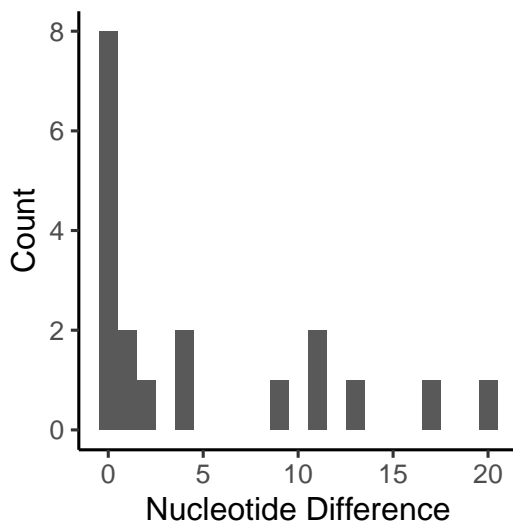
IGHV3-11*06

55 sequences assigned
17 (30.9%) exact matches, in which:
11 unique CDR3
3 unique J



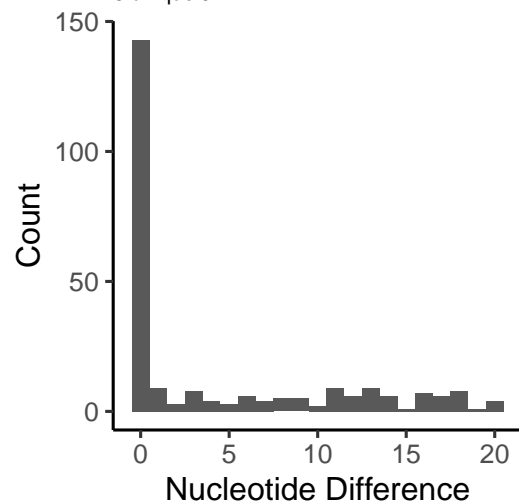
IGHV3-20*03_04

26 sequences assigned
8 (30.8%) exact matches, in which:
5 unique CDR3
4 unique J



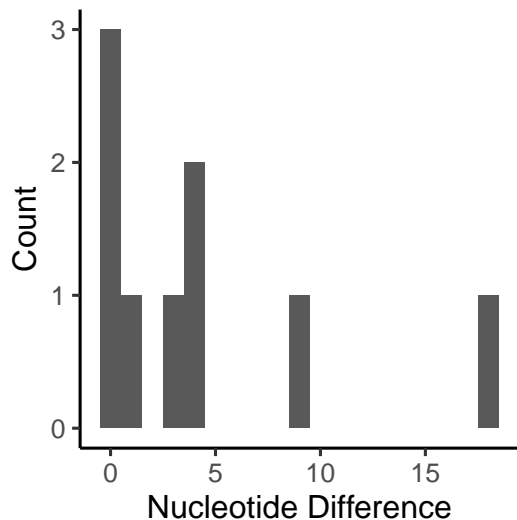
IGHV3-30-3*01

295 sequences assigned
143 (48.5%) exact matches, in which:
84 unique CDR3
6 unique J



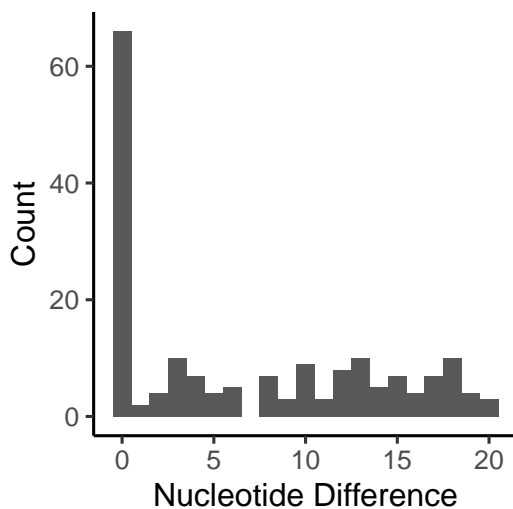
IGHV3-13*05

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



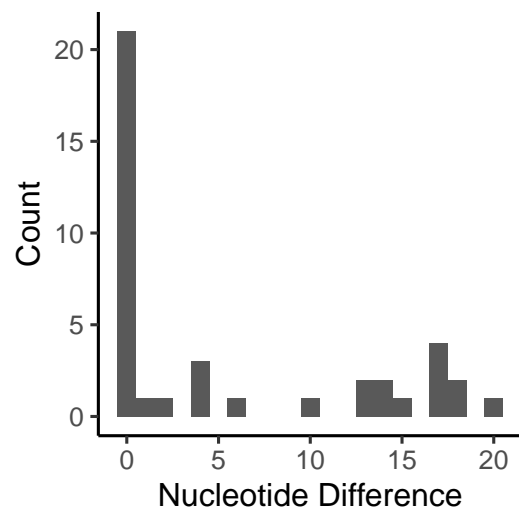
IGHV3-21*01_02

189 sequences assigned
66 (34.9%) exact matches, in which:
40 unique CDR3
5 unique J



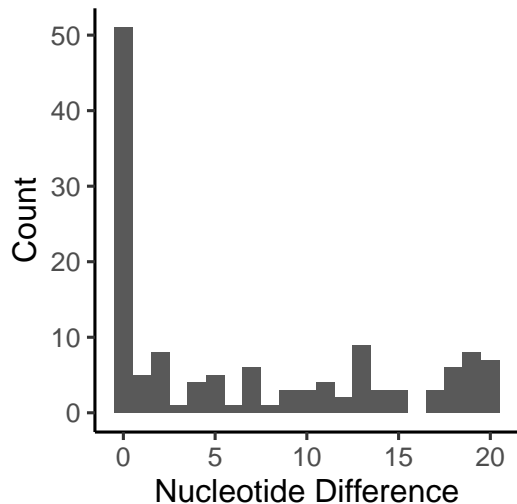
IGHV3-30*03

54 sequences assigned
21 (38.9%) exact matches, in which:
18 unique CDR3
3 unique J



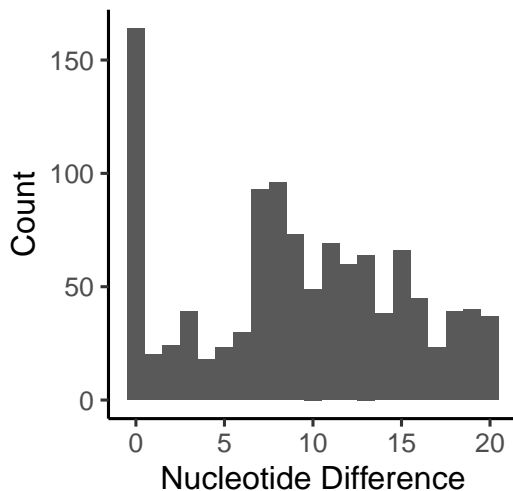
IGHV3-15*01_02

152 sequences assigned
51 (33.6%) exact matches, in which:
28 unique CDR3
5 unique J



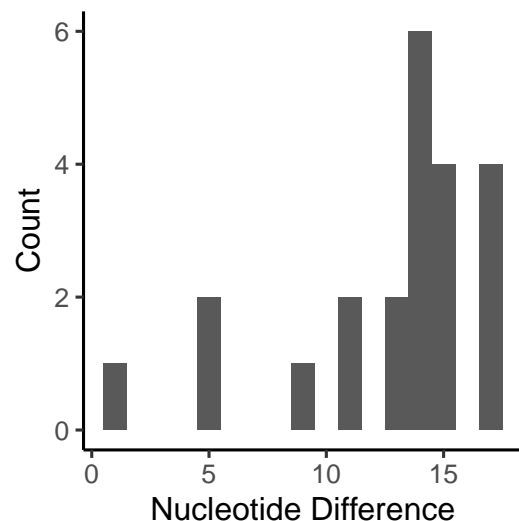
IGHV3-23*01_04

1273 sequences assigned
164 (12.9%) exact matches, in which:
95 unique CDR3
6 unique J



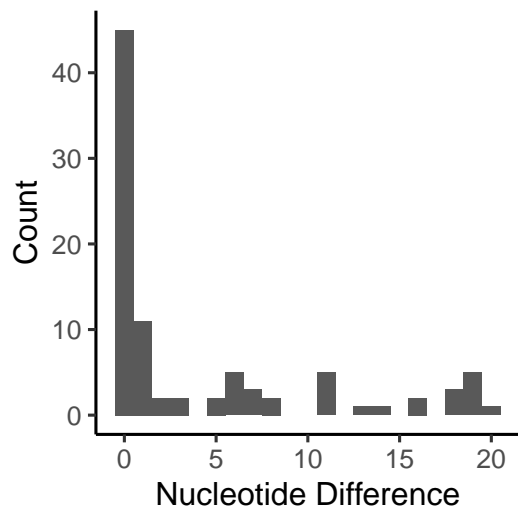
IGHV3-30*04

34 sequences assigned
No exact matches.



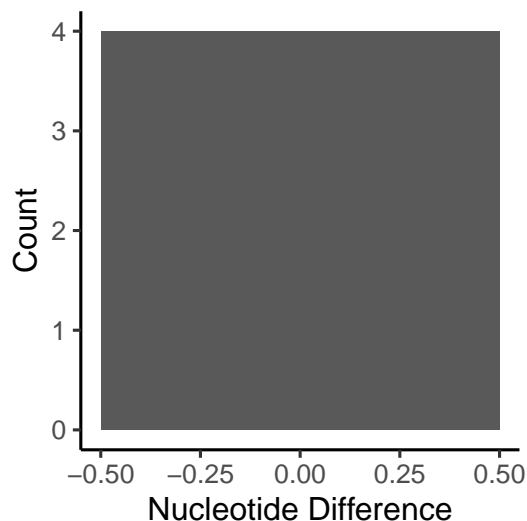
IGHV3-33*01

107 sequences assigned
45 (42.1%) exact matches, in which:
23 unique CDR3
3 unique J



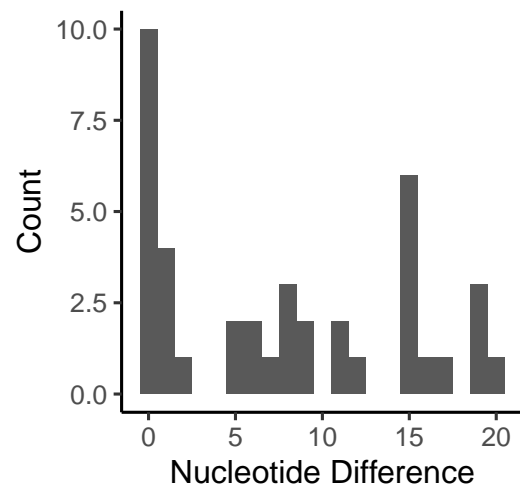
IGHV3-43*01

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



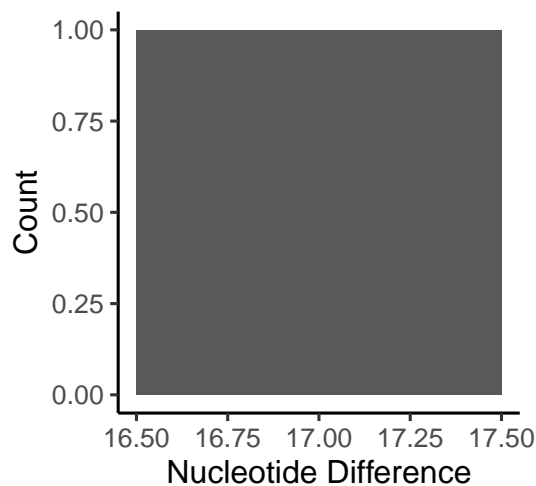
IGHV3-49*04

52 sequences assigned
10 (19.2%) exact matches, in which:
5 unique CDR3
4 unique J



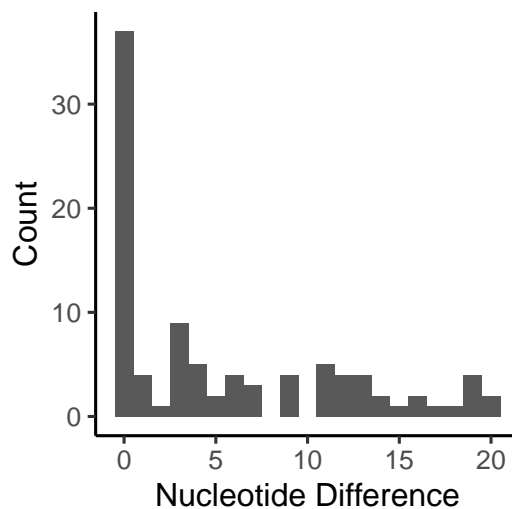
IGHV3-33*05

1 sequences assigned
No exact matches.



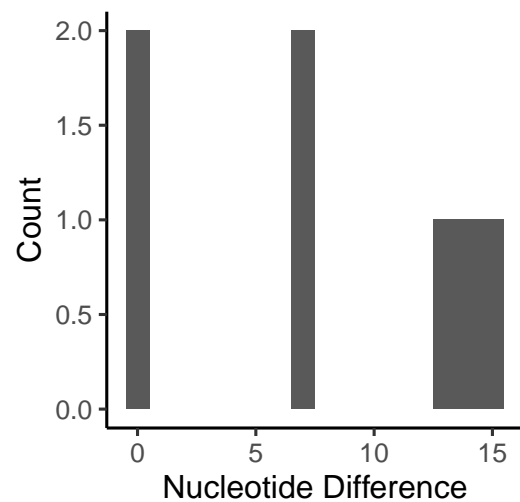
IGHV3-48*01

103 sequences assigned
37 (35.9%) exact matches, in which:
21 unique CDR3
4 unique J



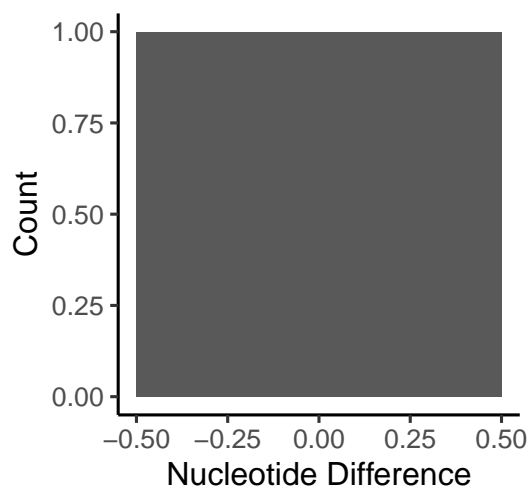
IGHV3-49*03_05

9 sequences assigned
2 (22.2%) exact matches, in which:
1 unique CDR3
1 unique J



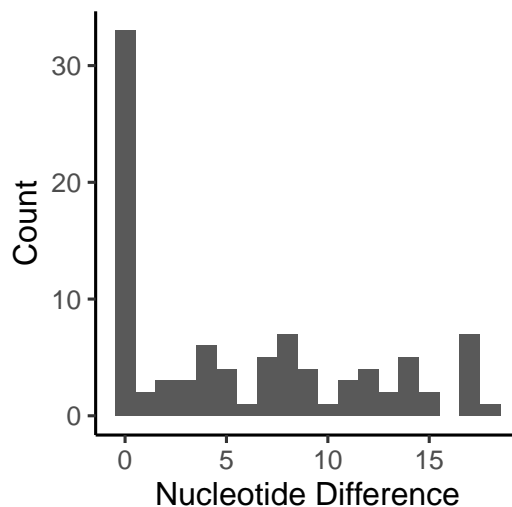
IGHV3-38-3*01

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



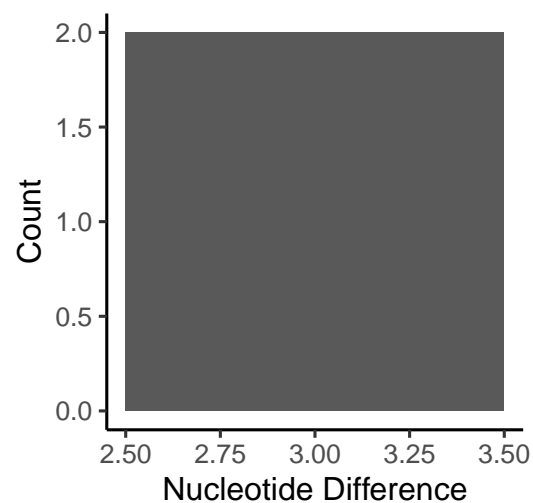
IGHV3-48*03

106 sequences assigned
33 (31.1%) exact matches, in which:
20 unique CDR3
5 unique J



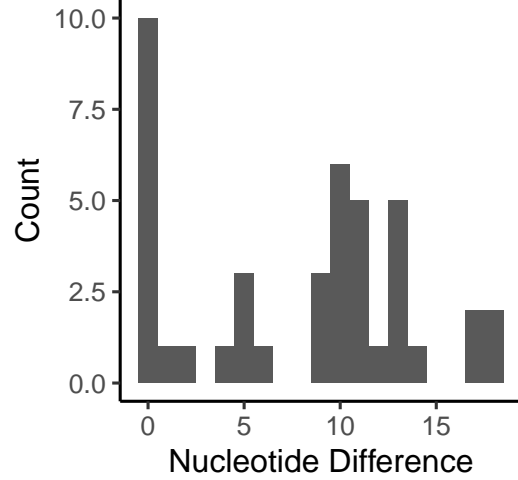
IGHV3-52*02

2 sequences assigned
No exact matches.



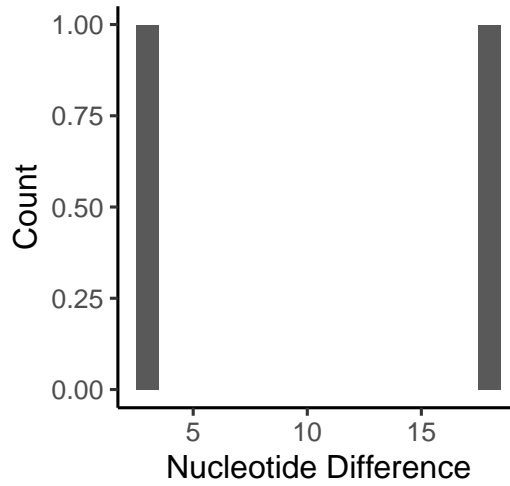
IGHV3-53*01_02

52 sequences assigned
10 (19.2%) exact matches, in which:
6 unique CDR3
3 unique J



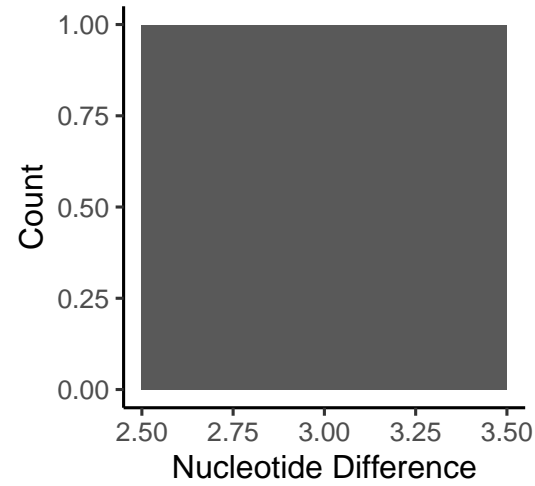
IGHV3-64*04

3 sequences assigned
No exact matches.



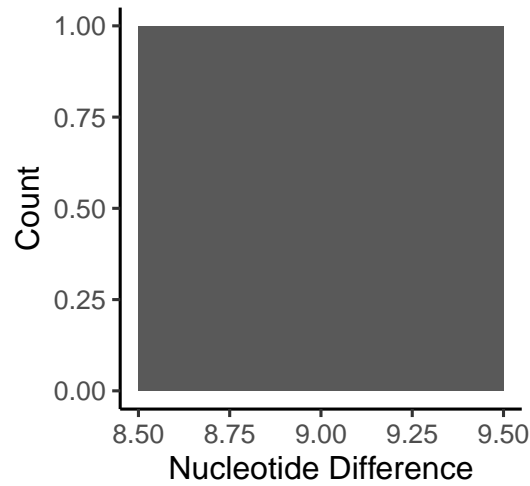
IGHV3-69-1*01

2 sequences assigned
No exact matches.



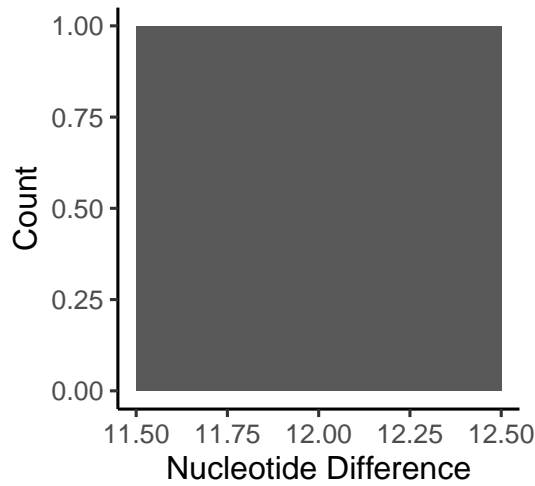
IGHV3-62*04

1 sequences assigned
No exact matches.



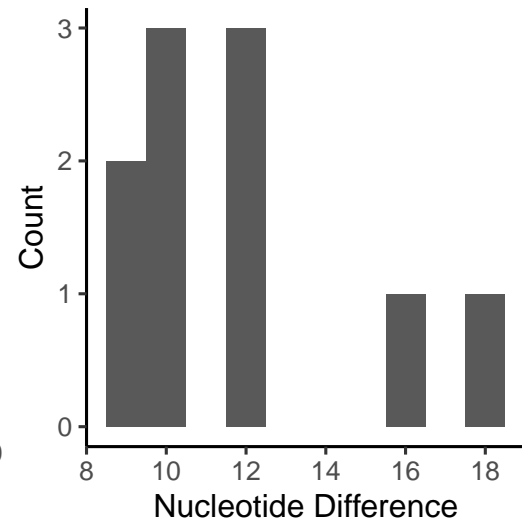
IGHV3-64*02_07

2 sequences assigned
No exact matches.



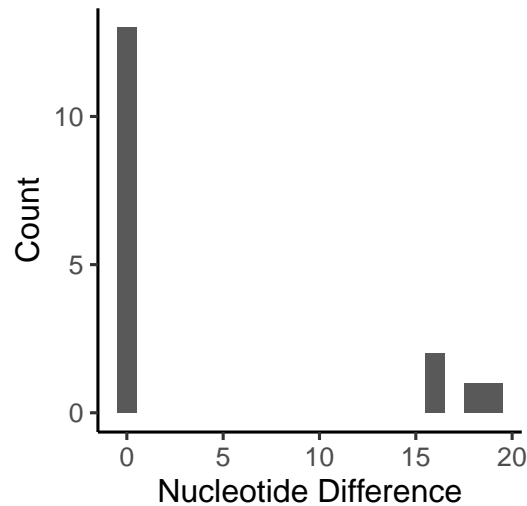
IGHV3-72*01

14 sequences assigned
No exact matches.



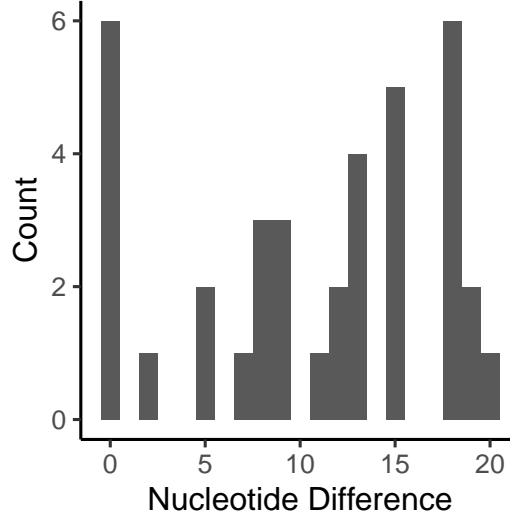
IGHV3-64*01

20 sequences assigned
13 (65%) exact matches, in which:
6 unique CDR3
2 unique J



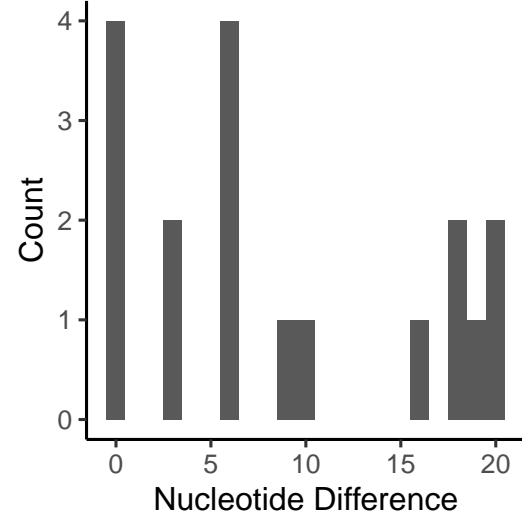
IGHV3-66*01

42 sequences assigned
6 (14.3%) exact matches, in which:
3 unique CDR3
2 unique J



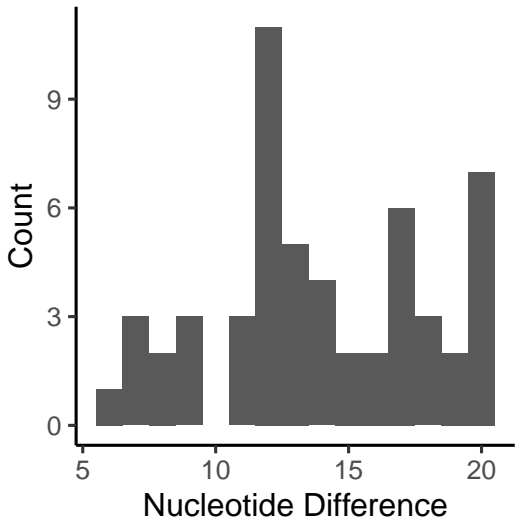
IGHV3-73*01_02

19 sequences assigned
4 (21.1%) exact matches, in which:
2 unique CDR3
1 unique J



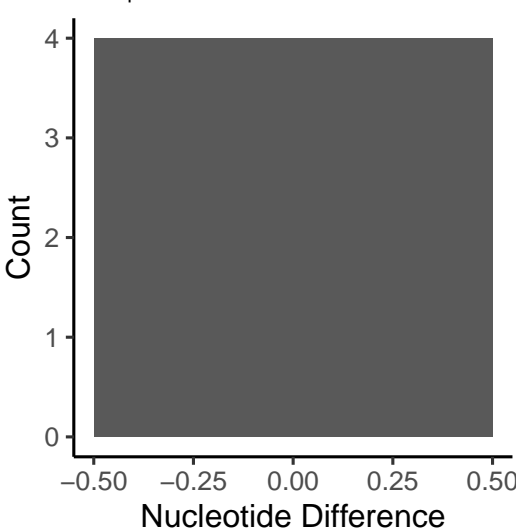
IGHV3-74*03

82 sequences assigned
No exact matches.



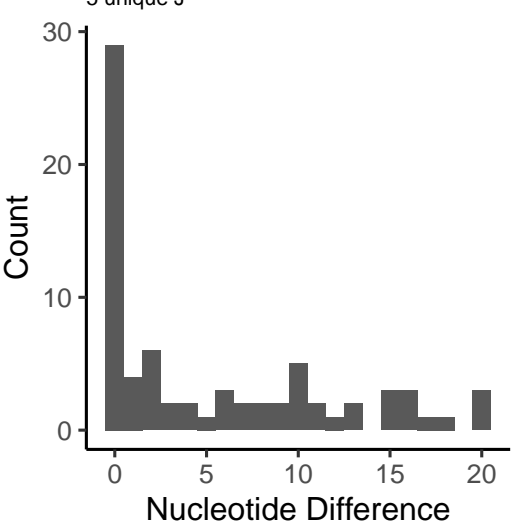
IGHV3-43D*04

5 sequences assigned
4 (80%) exact matches, in which:
2 unique CDR3
2 unique J



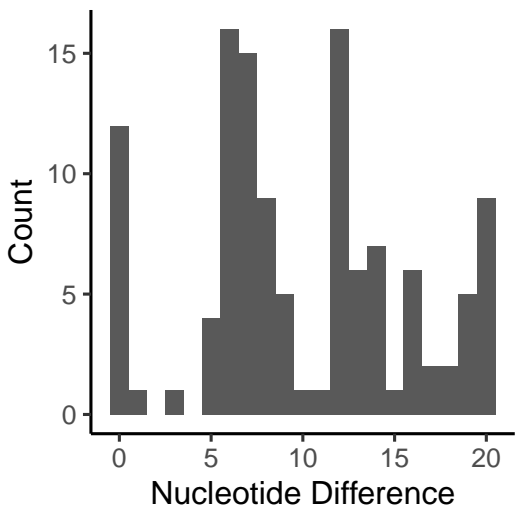
IGHV4-4*02_03

86 sequences assigned
29 (33.7%) exact matches, in which:
22 unique CDR3
5 unique J



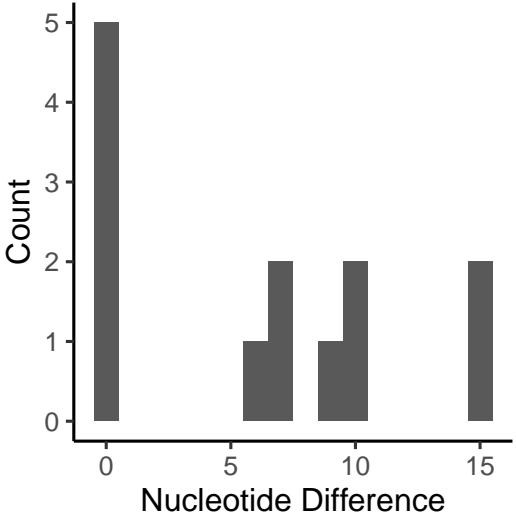
IGHV3-74*01_02

174 sequences assigned
12 (6.9%) exact matches, in which:
7 unique CDR3
3 unique J



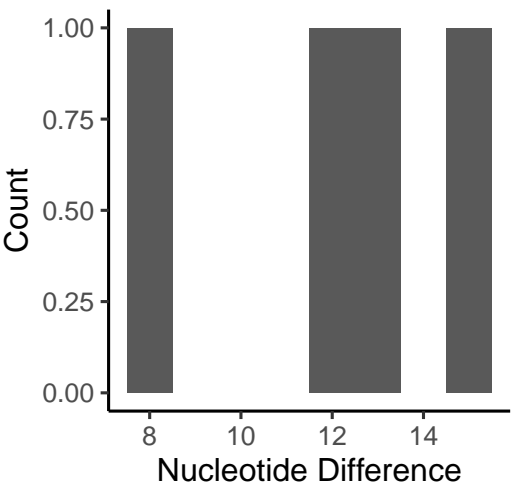
IGHV3-64D*06

33 sequences assigned
5 (15.2%) exact matches, in which:
2 unique CDR3
2 unique J



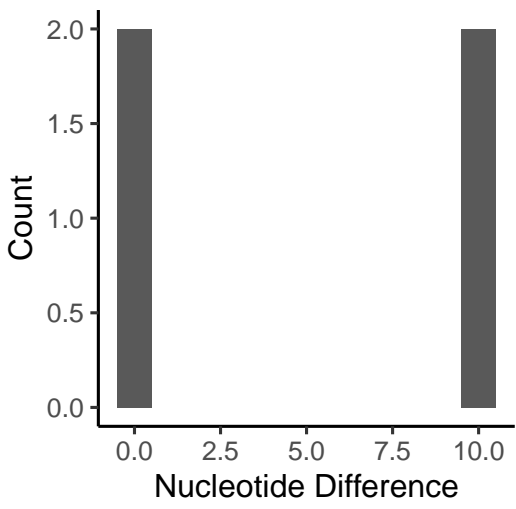
IGHV4-28*01_07

4 sequences assigned
No exact matches.



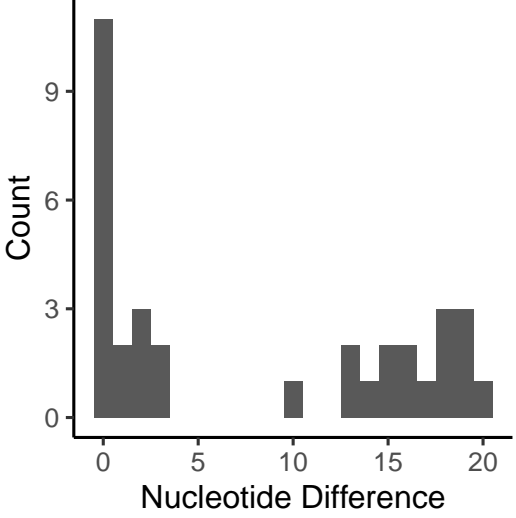
IGHV3-43D*03

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



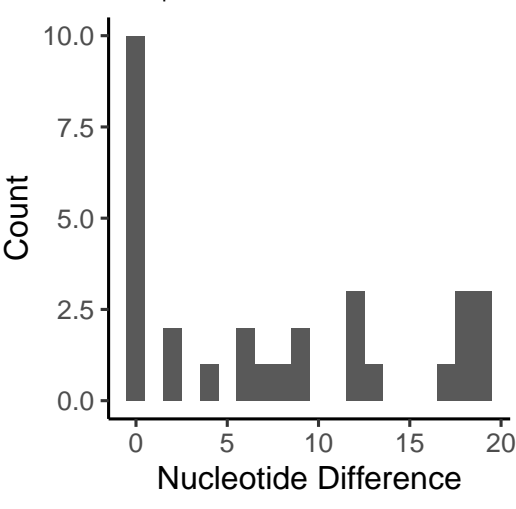
IGHV3-64D*09

34 sequences assigned
11 (32.4%) exact matches, in which:
5 unique CDR3
2 unique J



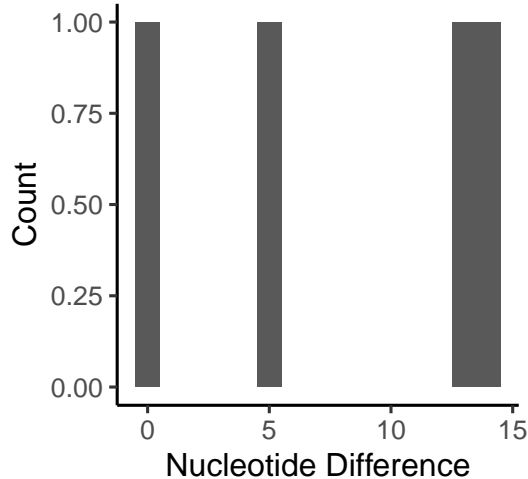
IGHV4-30-4*01

44 sequences assigned
10 (22.7%) exact matches, in which:
10 unique CDR3
4 unique J



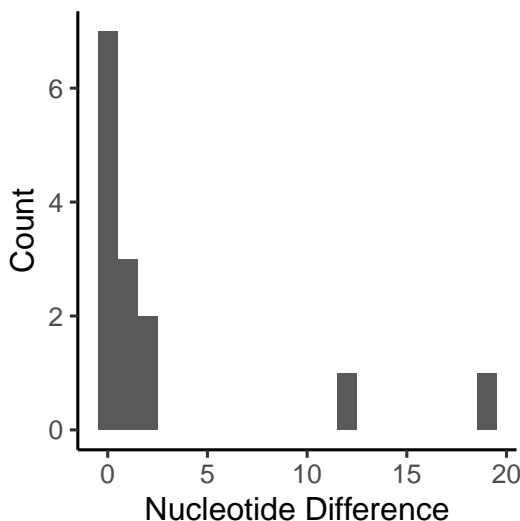
IGHV4-30-2*01

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



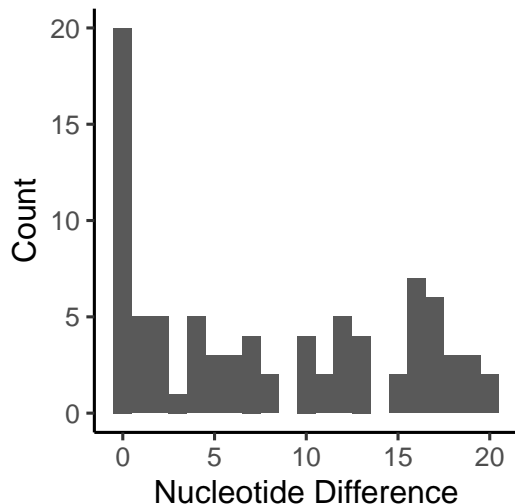
IGHV4-38-2*01

16 sequences assigned
7 (43.8%) exact matches, in which:
7 unique CDR3
2 unique J



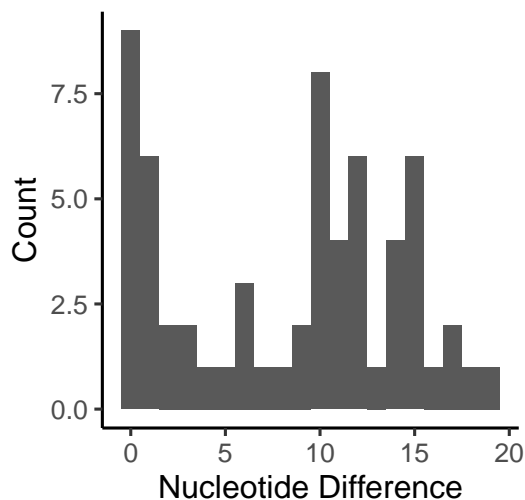
IGHV4-59*08

113 sequences assigned
20 (17.7%) exact matches, in which:
20 unique CDR3
4 unique J



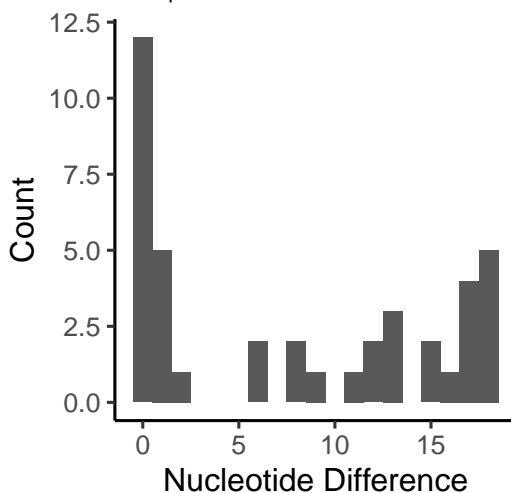
IGHV4-31*02

66 sequences assigned
9 (13.6%) exact matches, in which:
8 unique CDR3
5 unique J



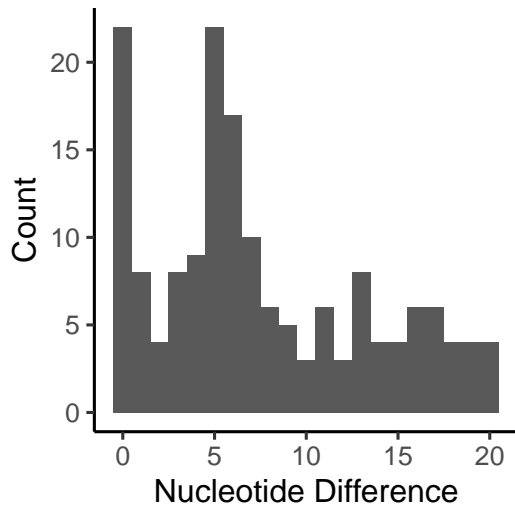
IGHV4-38-2*02

48 sequences assigned
12 (25%) exact matches, in which:
11 unique CDR3
4 unique J



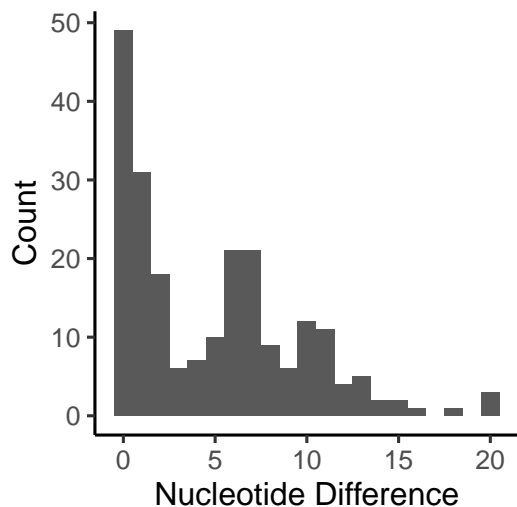
IGHV4-59*01_07

189 sequences assigned
22 (11.6%) exact matches, in which:
20 unique CDR3
5 unique J



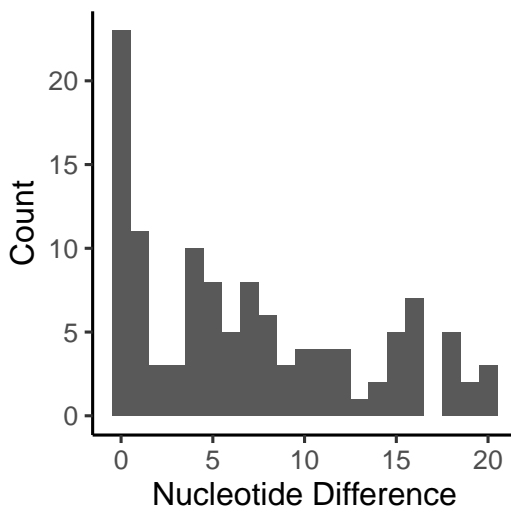
IGHV4-34*01_02

235 sequences assigned
49 (20.9%) exact matches, in which:
43 unique CDR3
5 unique J



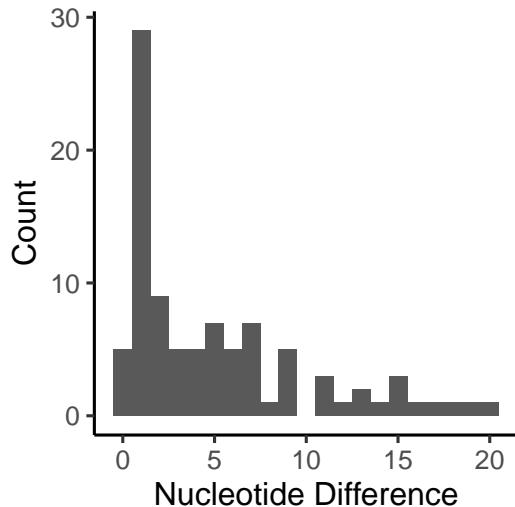
IGHV4-39*07

131 sequences assigned
23 (17.6%) exact matches, in which:
21 unique CDR3
4 unique J



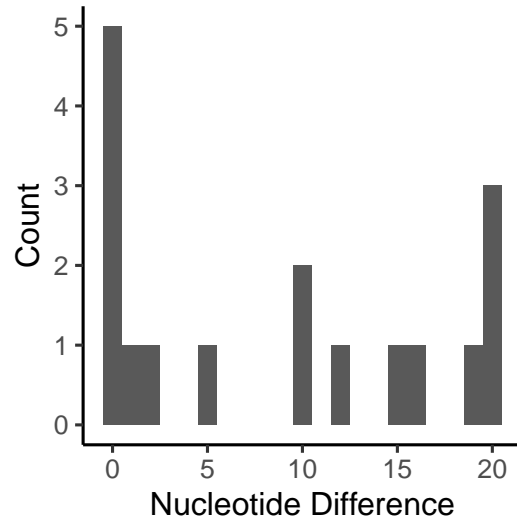
IGHV4-59*12

109 sequences assigned
5 (4.6%) exact matches, in which:
5 unique CDR3
3 unique J



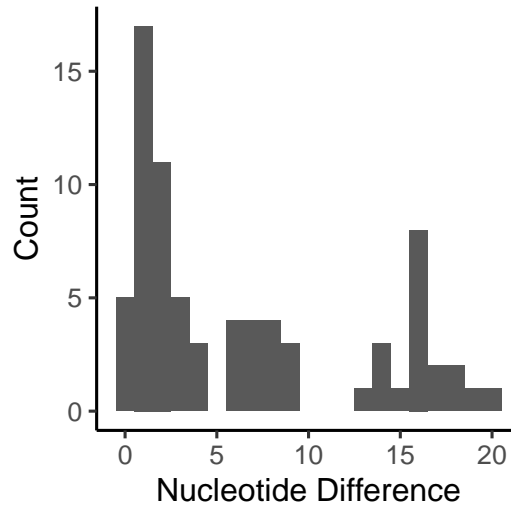
IGHV4-61*01

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



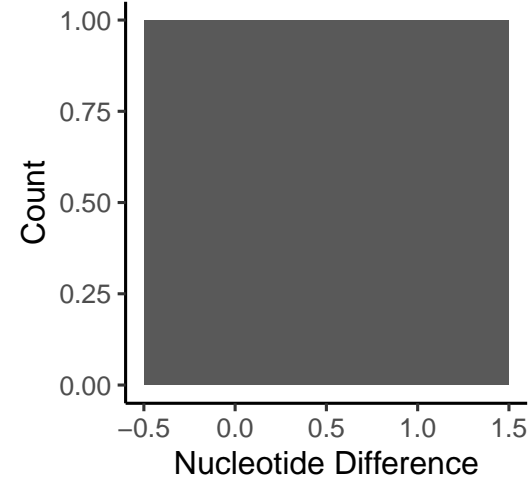
IGHV5-51*07

78 sequences assigned
5 (6.4%) exact matches, in which:
5 unique CDR3
3 unique J



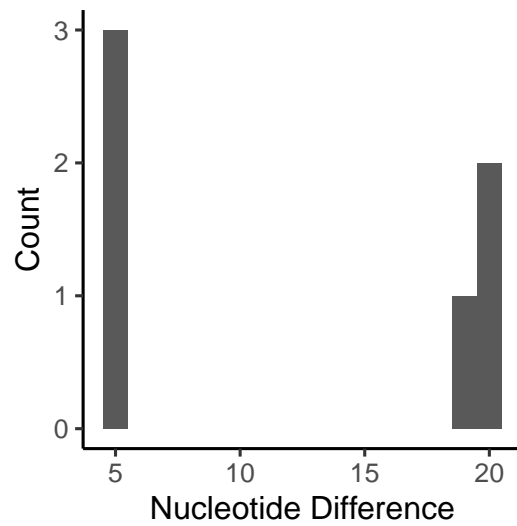
IGHV7-4-1*01

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



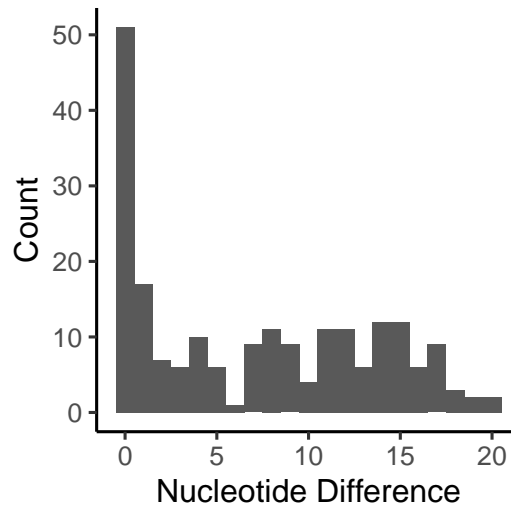
IGHV4-61*08

8 sequences assigned
No exact matches.



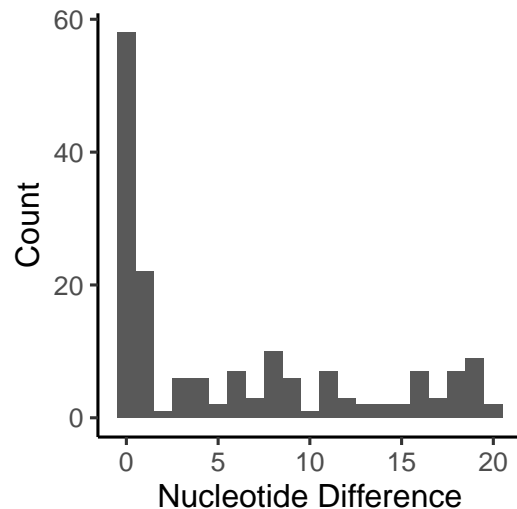
IGHV5-51*01_03

280 sequences assigned
51 (18.2%) exact matches, in which:
46 unique CDR3
5 unique J



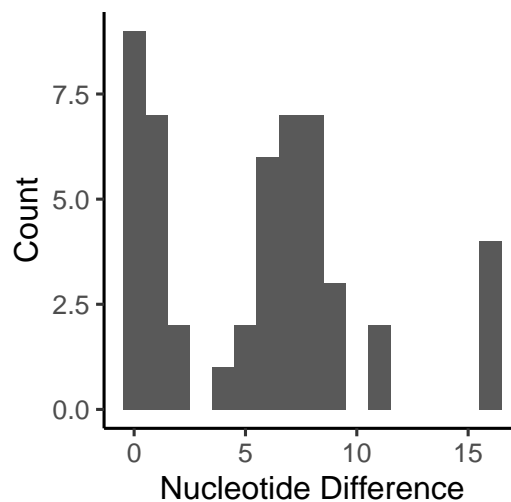
IGHV5-10-1*01_03

175 sequences assigned
58 (33.1%) exact matches, in which:
46 unique CDR3
4 unique J



IGHV6-1*01_02

55 sequences assigned
9 (16.4%) exact matches, in which:
9 unique CDR3
3 unique J





Warning – no inferred sequences found.