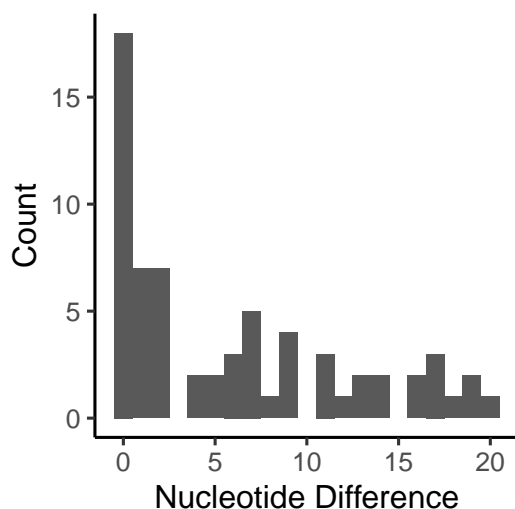


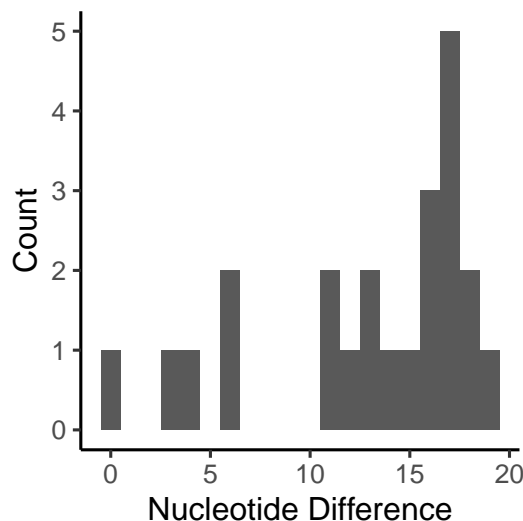
IGHV1-2*04

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



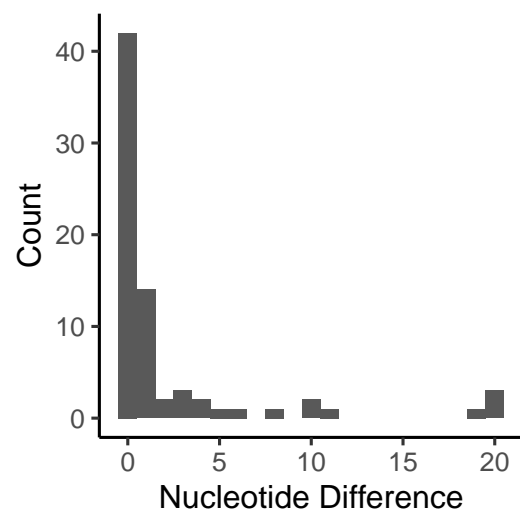
IGHV1-3*04

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



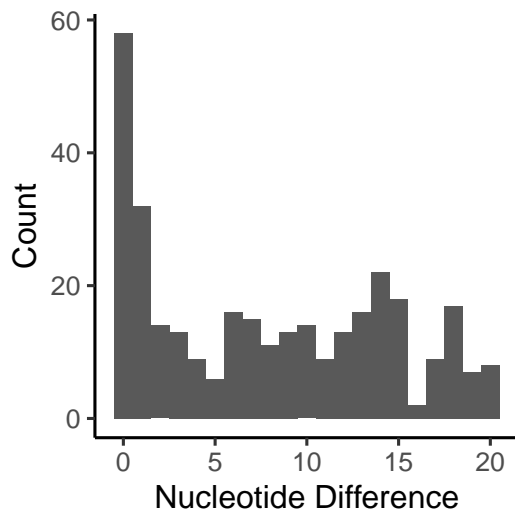
IGHV1-24*01

97 sequences assigned
42 (43.3%) exact matches, in which:
40 unique CDR3
5 unique J



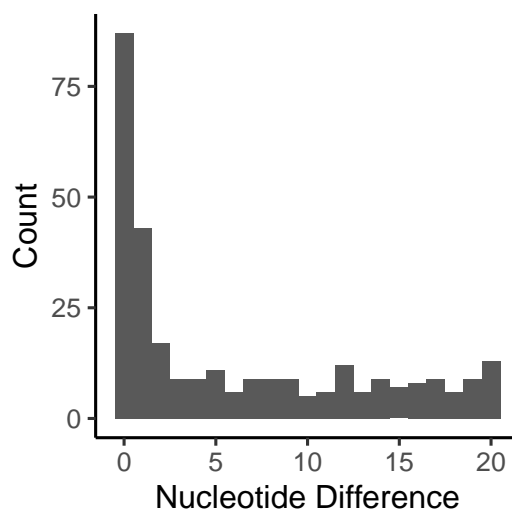
IGHV1-2*06

492 sequences assigned
58 (11.8%) exact matches, in which:
58 unique CDR3
6 unique J



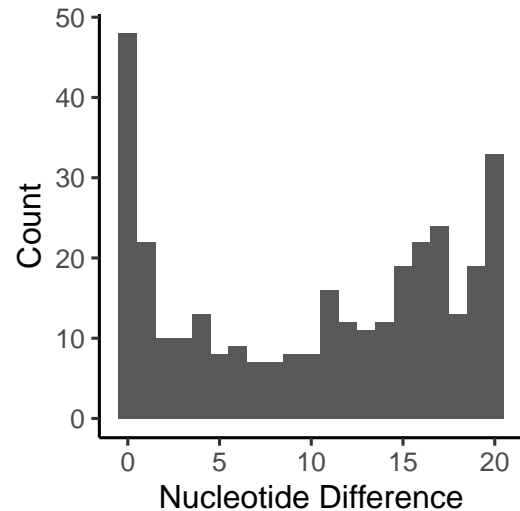
IGHV1-8*01

362 sequences assigned
87 (24%) exact matches, in which:
87 unique CDR3
4 unique J



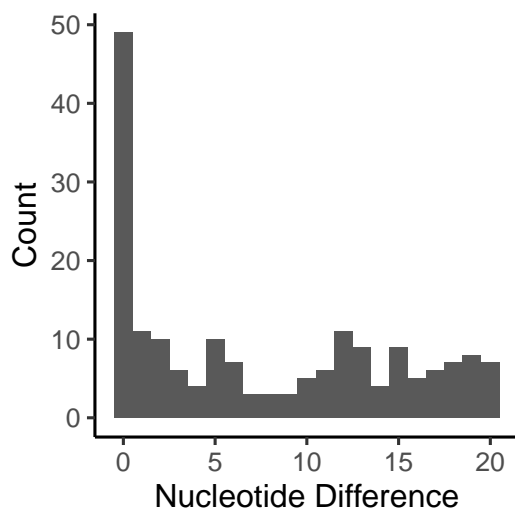
IGHV1-46*01

916 sequences assigned
48 (5.2%) exact matches, in which:
48 unique CDR3
5 unique J



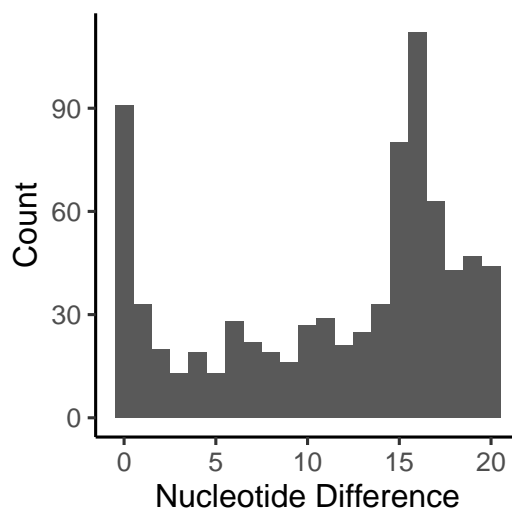
IGHV1-3*01

281 sequences assigned
49 (17.4%) exact matches, in which:
48 unique CDR3
4 unique J



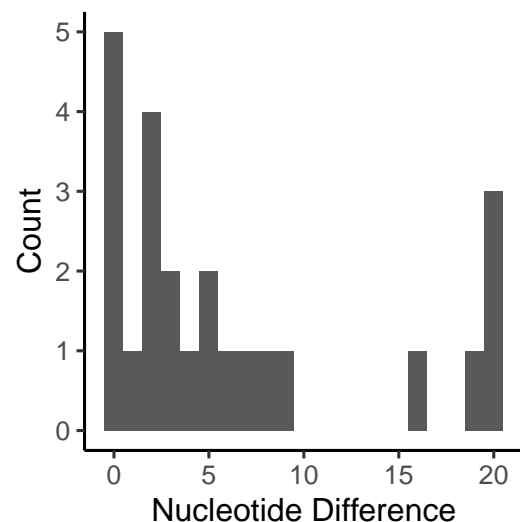
IGHV1-18*01

1003 sequences assigned
91 (9.1%) exact matches, in which:
91 unique CDR3
6 unique J



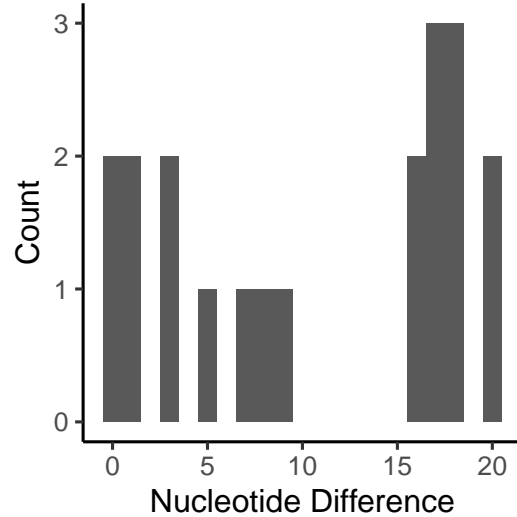
IGHV1-58*01

42 sequences assigned
5 (11.9%) exact matches, in which:
5 unique CDR3
3 unique J



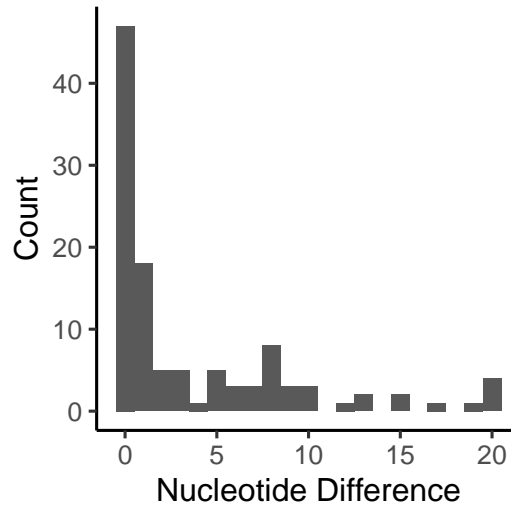
IGHV1-58*02

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



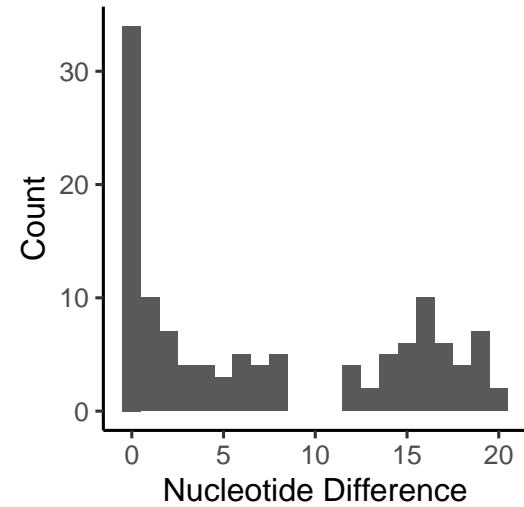
IGHV1-69*06

177 sequences assigned
47 (26.6%) exact matches, in which:
47 unique CDR3
5 unique J



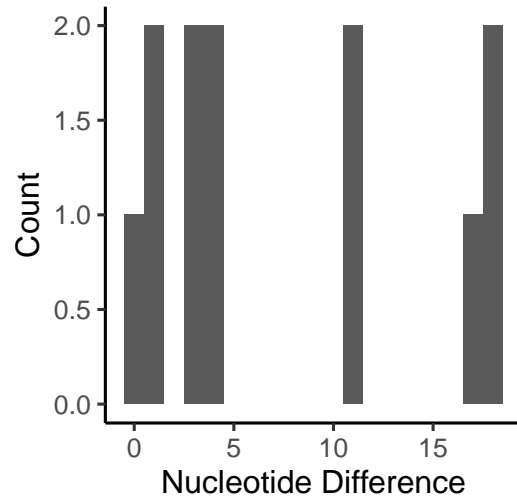
IGHV2-26*01

140 sequences assigned
34 (24.3%) exact matches, in which:
34 unique CDR3
5 unique J



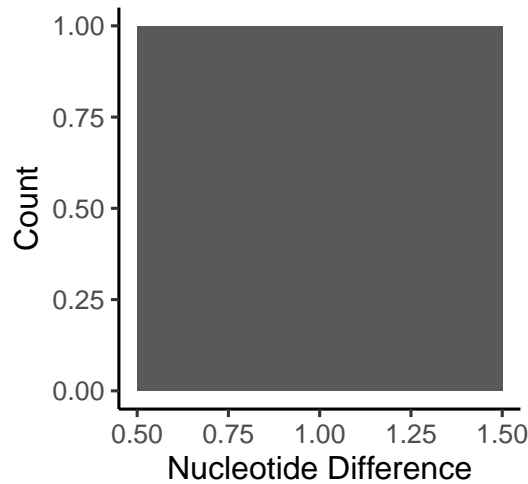
IGHV1-69-2*01

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



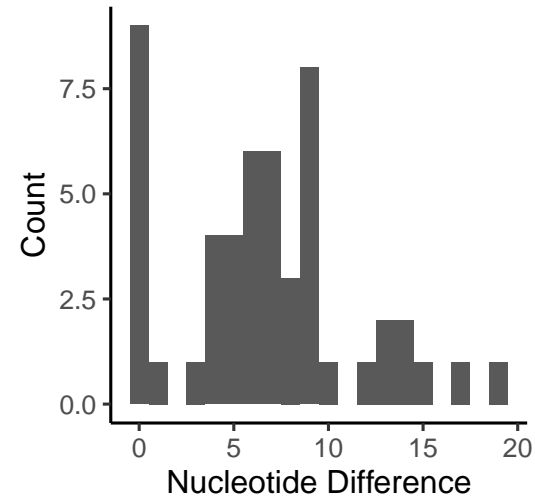
IGHV1-NL1*01

1 sequences assigned
No exact matches.



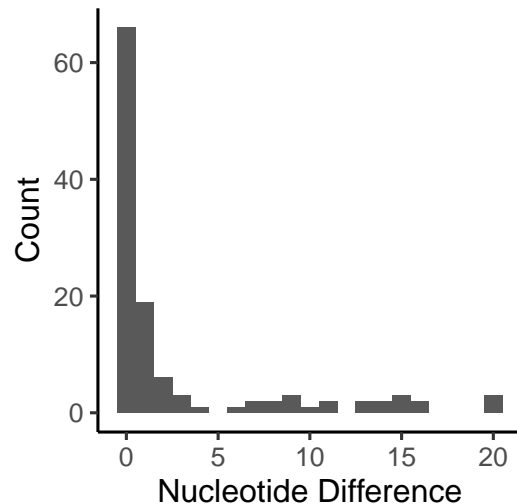
IGHV2-70*01

51 sequences assigned
9 (17.6%) exact matches, in which:
9 unique CDR3
4 unique J



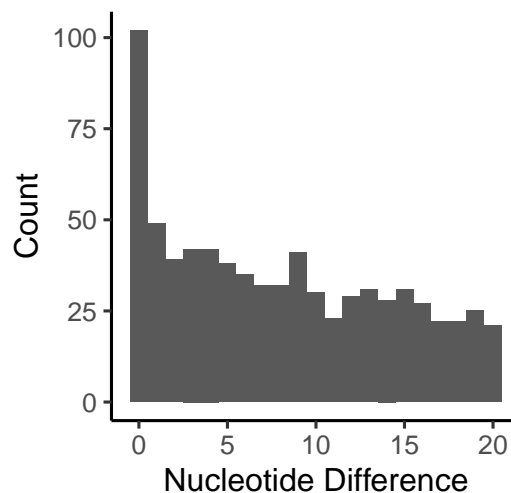
IGHV1-69*04

190 sequences assigned
66 (34.7%) exact matches, in which:
64 unique CDR3
5 unique J



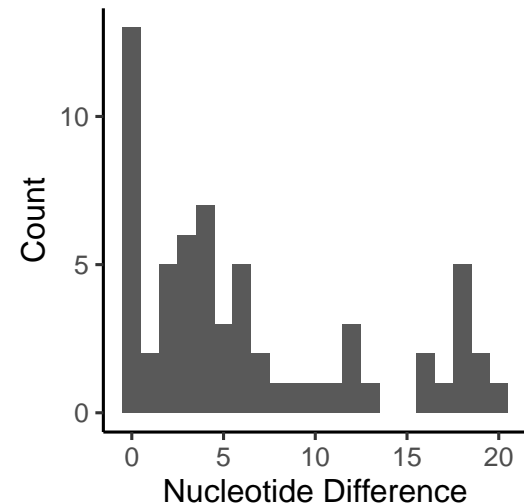
IGHV2-5*02

890 sequences assigned
102 (11.5%) exact matches, in which:
102 unique CDR3
6 unique J



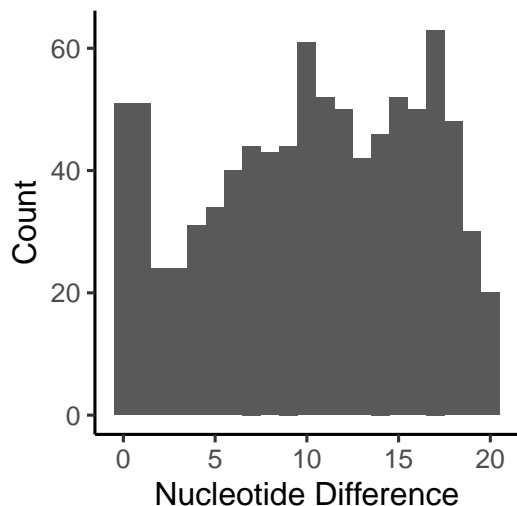
IGHV2-70*15

83 sequences assigned
13 (15.7%) exact matches, in which:
13 unique CDR3
3 unique J



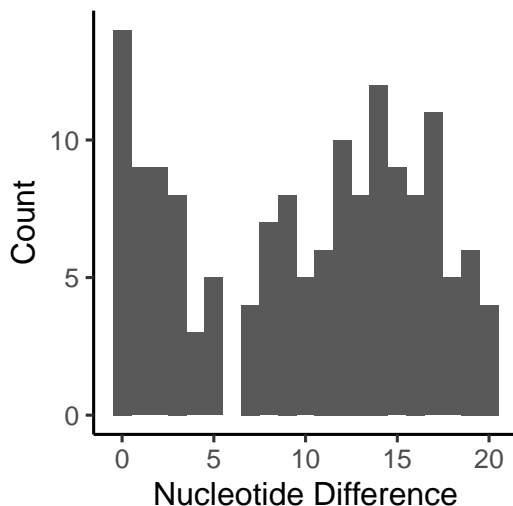
IGHV3-7*01

1103 sequences assigned
51 (4.6%) exact matches, in which:
51 unique CDR3
5 unique J



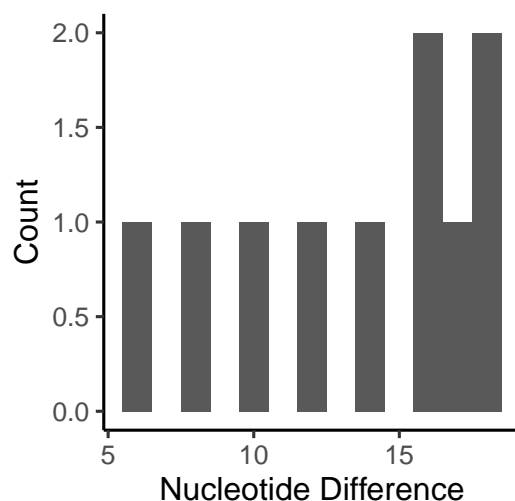
IGHV3-13*01

188 sequences assigned
14 (7.4%) exact matches, in which:
14 unique CDR3
5 unique J



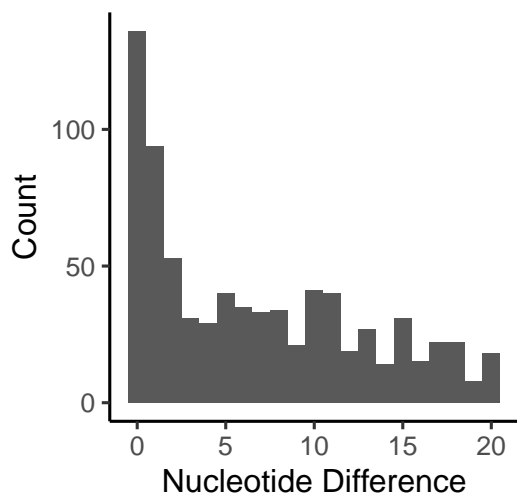
IGHV3-20*04

21 sequences assigned
No exact matches.



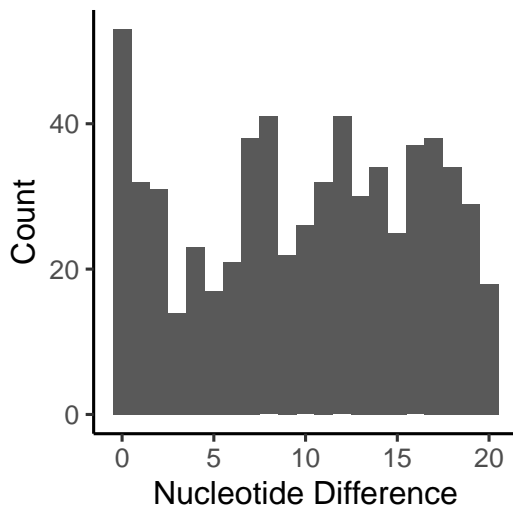
IGHV3-9*01

969 sequences assigned
136 (14%) exact matches, in which:
135 unique CDR3
6 unique J



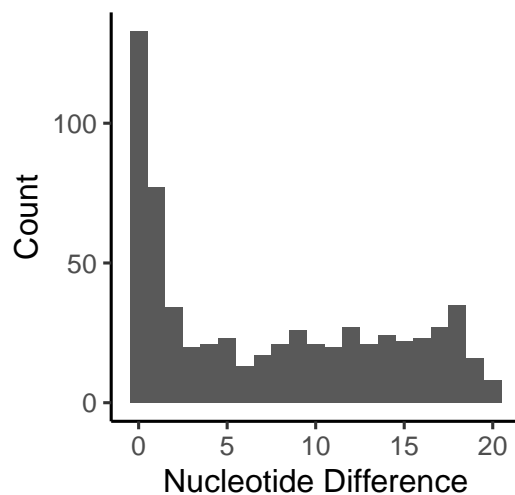
IGHV3-15*01

865 sequences assigned
53 (6.1%) exact matches, in which:
53 unique CDR3
5 unique J



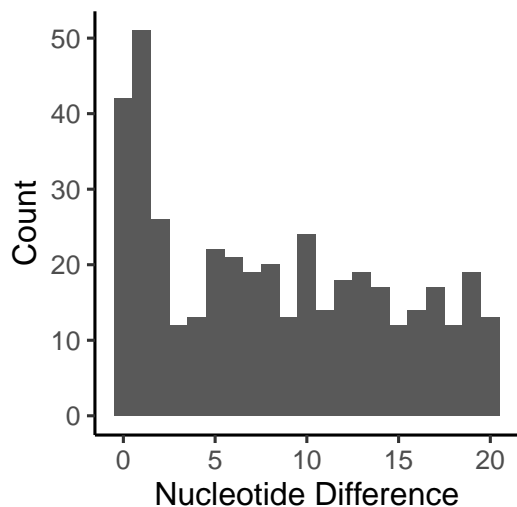
IGHV3-21*01

782 sequences assigned
133 (17%) exact matches, in which:
132 unique CDR3
6 unique J



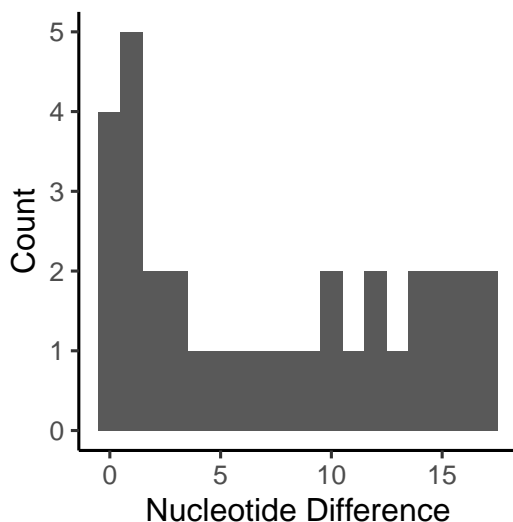
IGHV3-11*01

567 sequences assigned
42 (7.4%) exact matches, in which:
40 unique CDR3
5 unique J



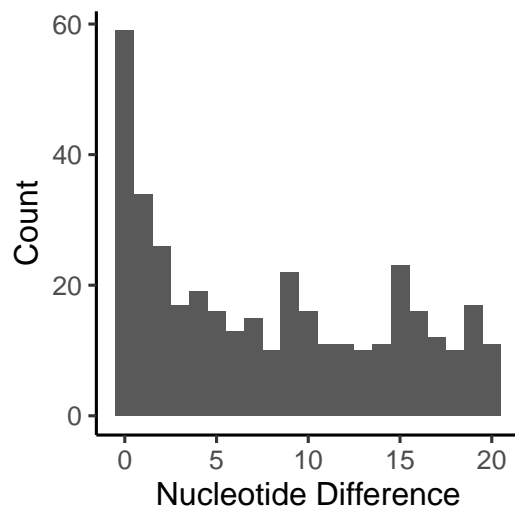
IGHV3-20*01

37 sequences assigned
4 (10.8%) exact matches, in which:
4 unique CDR3
3 unique J



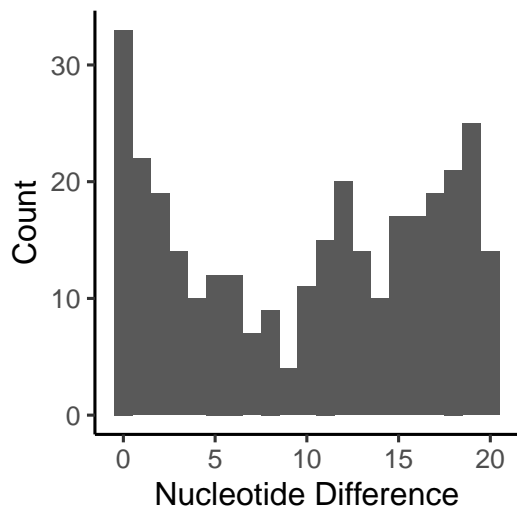
IGHV3-30-3*01

463 sequences assigned
59 (12.7%) exact matches, in which:
59 unique CDR3
5 unique J



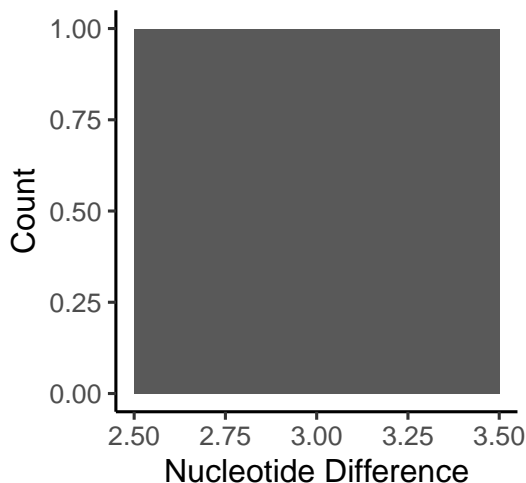
IGHV3-33*01

417 sequences assigned
33 (7.9%) exact matches, in which:
33 unique CDR3
5 unique J



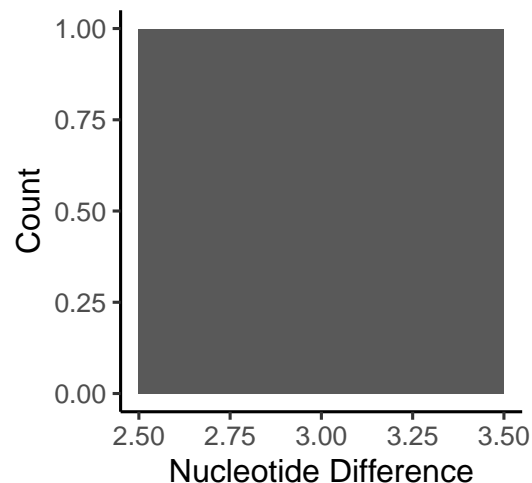
IGHV3-47*02

1 sequences assigned
No exact matches.



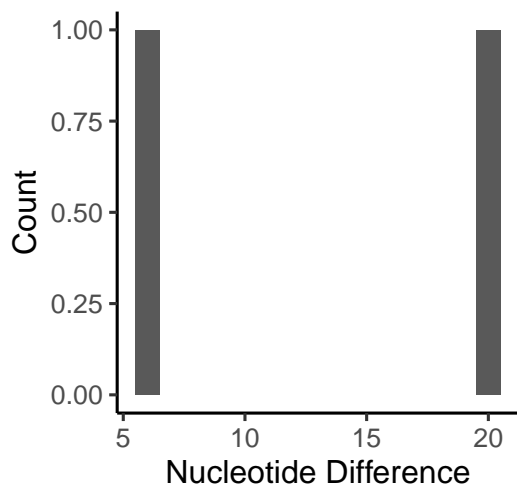
IGHV3-52*01

2 sequences assigned
No exact matches.



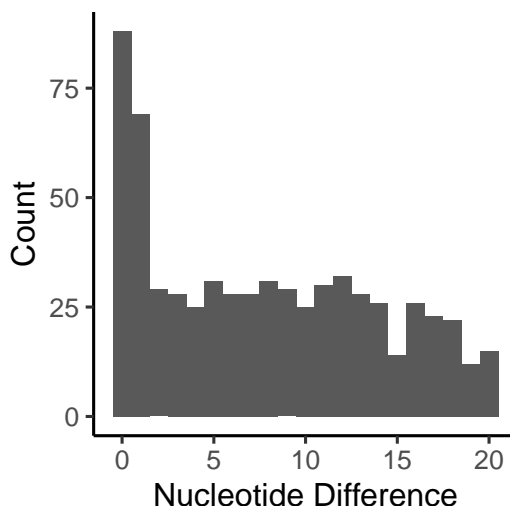
IGHV3-41*02

2 sequences assigned
No exact matches.



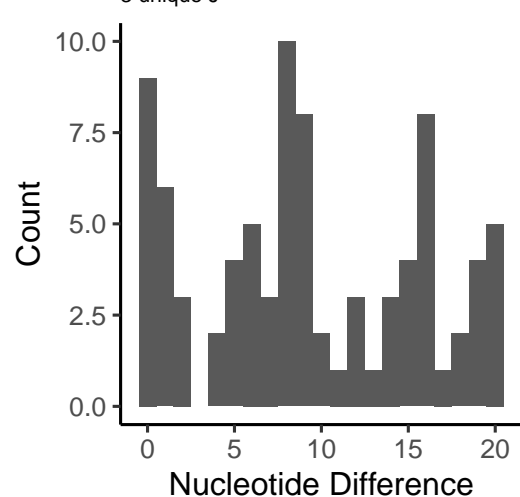
IGHV3-48*03

826 sequences assigned
88 (10.7%) exact matches, in which:
87 unique CDR3
5 unique J



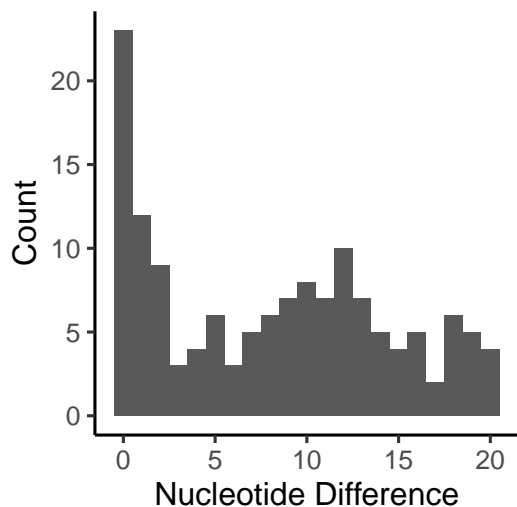
IGHV3-53*02

115 sequences assigned
9 (7.8%) exact matches, in which:
9 unique CDR3
3 unique J



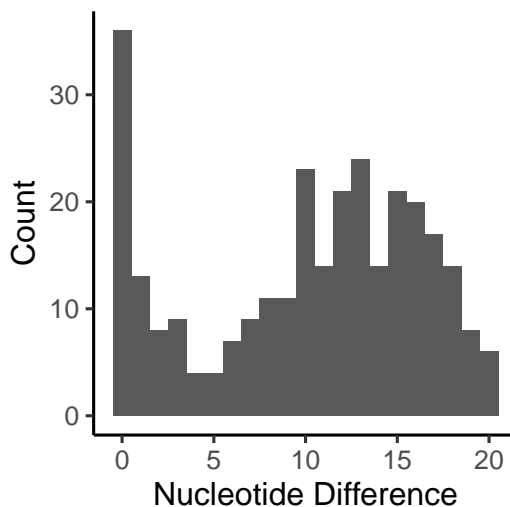
IGHV3-43*02

181 sequences assigned
23 (12.7%) exact matches, in which:
23 unique CDR3
4 unique J



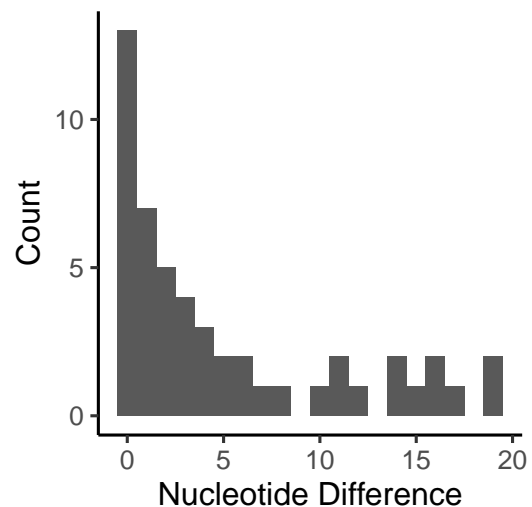
IGHV3-49*04

420 sequences assigned
36 (8.6%) exact matches, in which:
35 unique CDR3
4 unique J



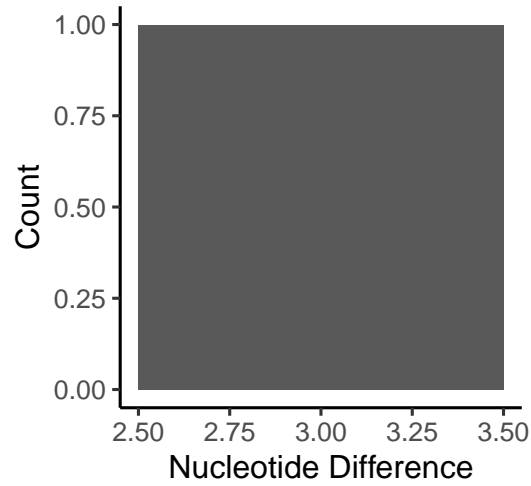
IGHV3-53*04

61 sequences assigned
13 (21.3%) exact matches, in which:
13 unique CDR3
5 unique J



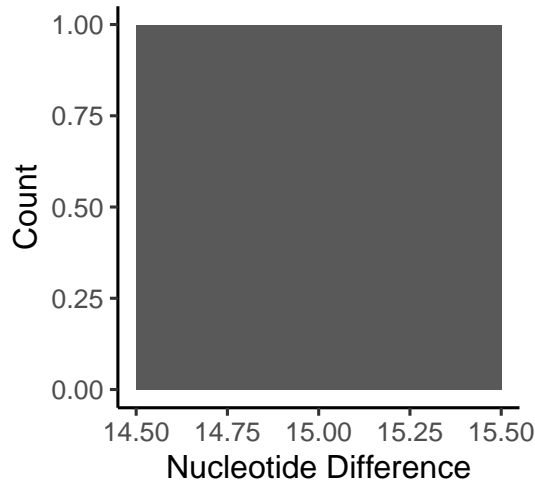
IGHV3-62*03

1 sequences assigned
No exact matches.



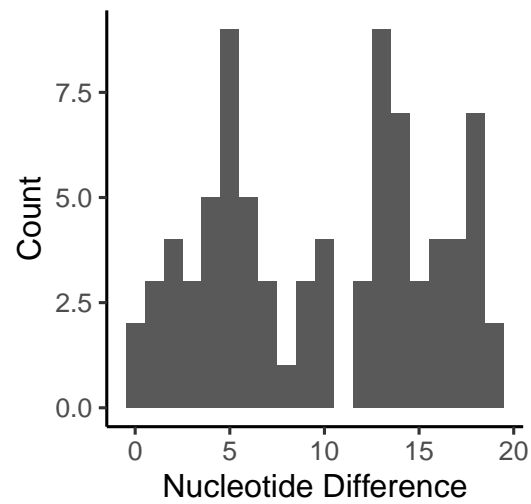
IGHV3-69-1*01

1 sequences assigned
No exact matches.



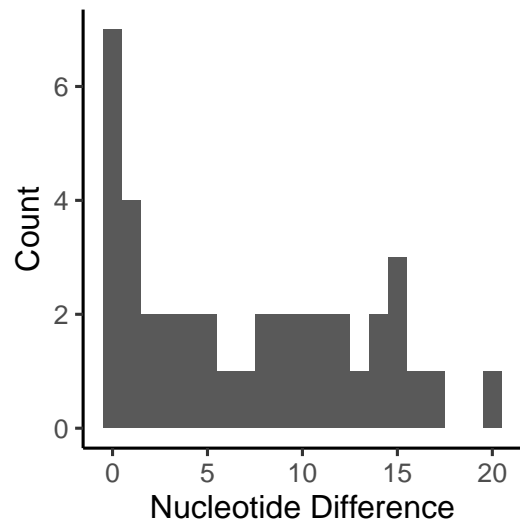
IGHV3-73*01

91 sequences assigned
2 (2.2%) exact matches, in which:
2 unique CDR3
2 unique J



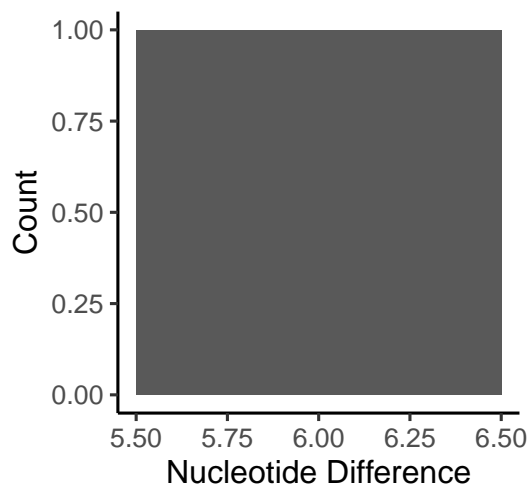
IGHV3-64*01

52 sequences assigned
7 (13.5%) exact matches, in which:
7 unique CDR3
4 unique J



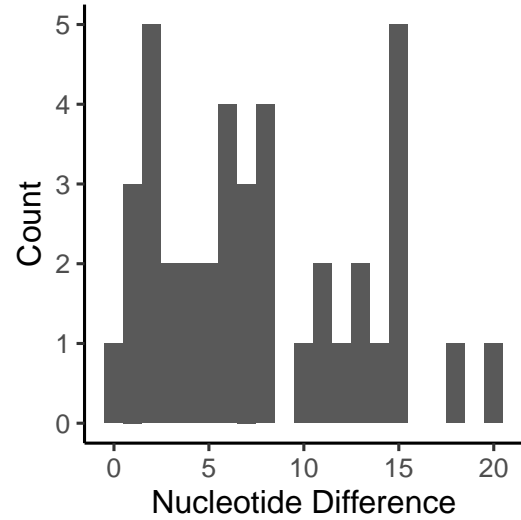
IGHV3-71*01

1 sequences assigned
No exact matches.



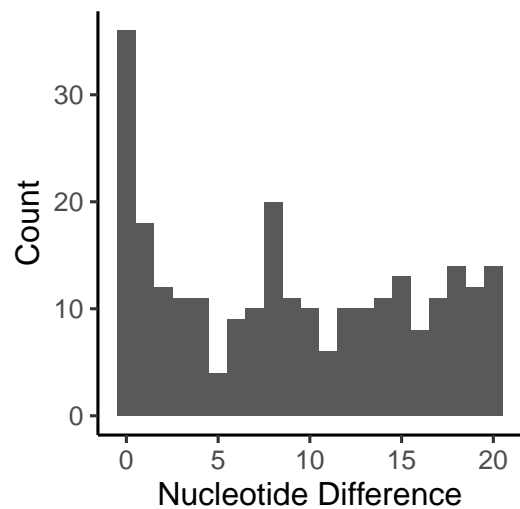
IGHV3-73*02

53 sequences assigned
1 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



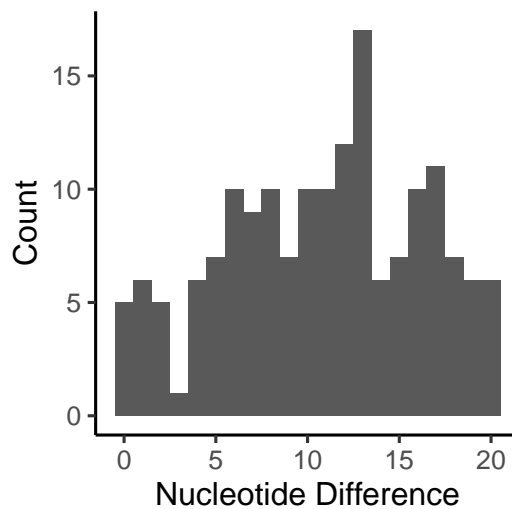
IGHV3-66*01

332 sequences assigned
36 (10.8%) exact matches, in which:
36 unique CDR3
4 unique J



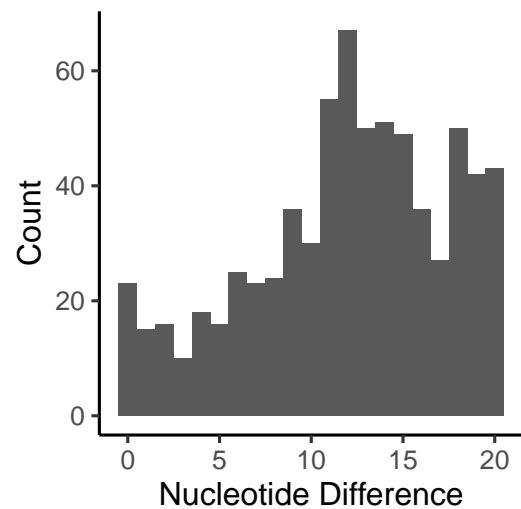
IGHV3-72*01

195 sequences assigned
5 (2.6%) exact matches, in which:
5 unique CDR3
3 unique J



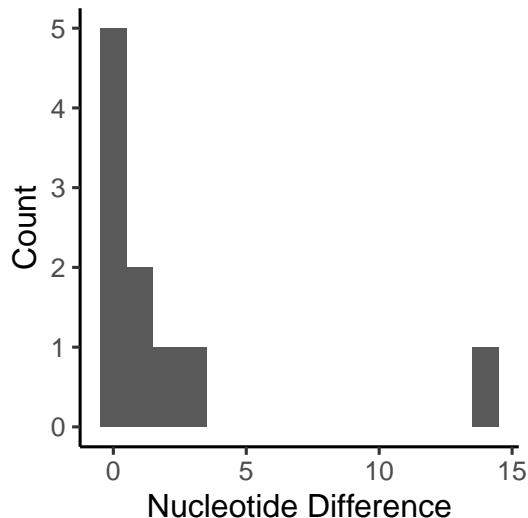
IGHV3-74*01

955 sequences assigned
23 (2.4%) exact matches, in which:
23 unique CDR3
5 unique J



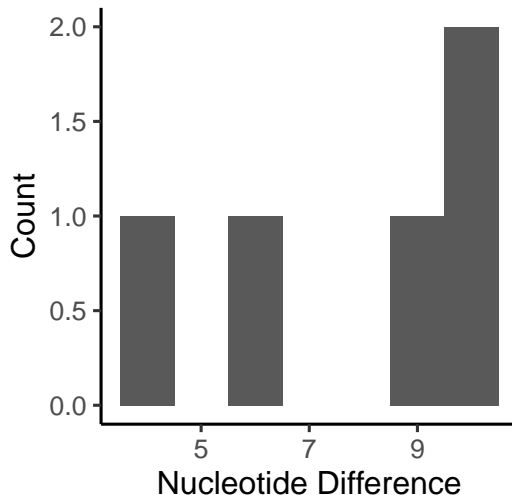
IGHV3-43D*04

13 sequences assigned
5 (38.5%) exact matches, in which:
5 unique CDR3
2 unique J



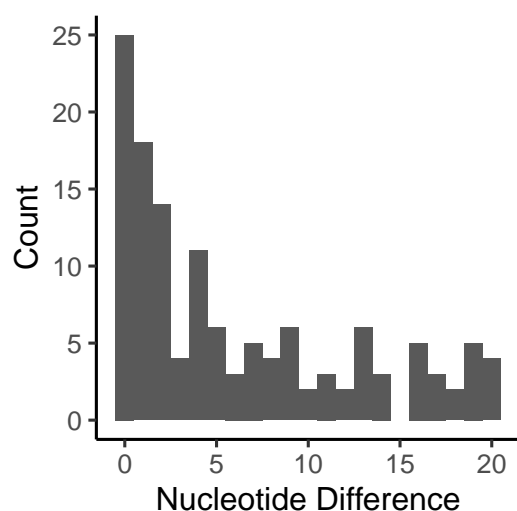
IGHV4-28*01

5 sequences assigned
No exact matches.



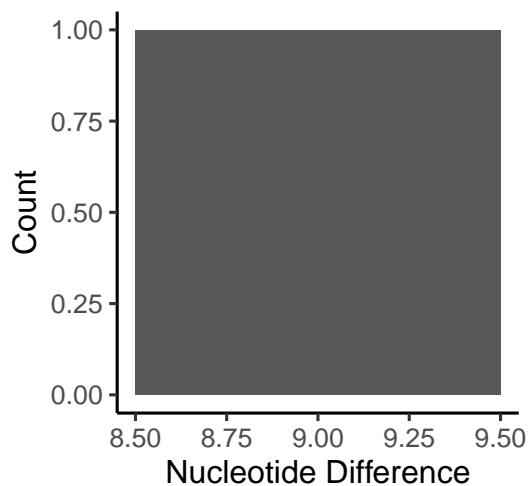
IGHV4-31*03

162 sequences assigned
25 (15.4%) exact matches, in which:
25 unique CDR3
5 unique J



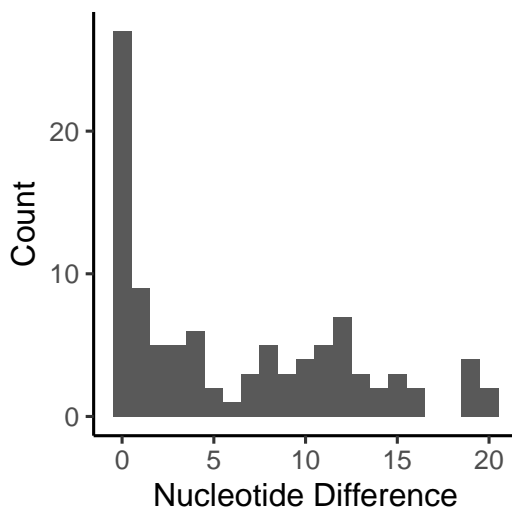
IGHV3-64D*06

2 sequences assigned
No exact matches.



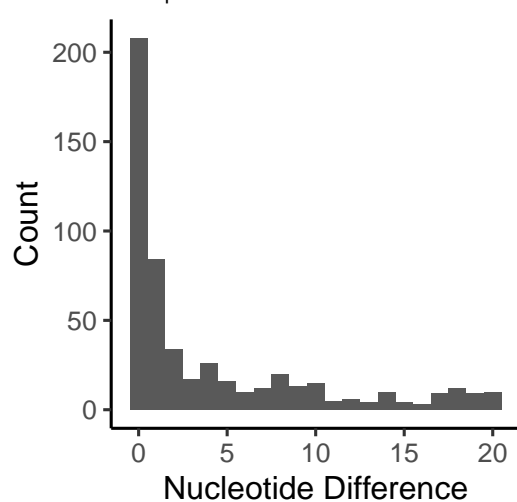
IGHV4-30-4*01

124 sequences assigned
27 (21.8%) exact matches, in which:
26 unique CDR3
5 unique J



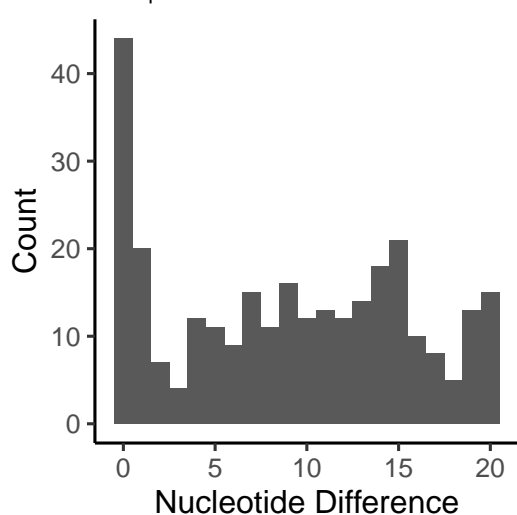
IGHV4-34*01

635 sequences assigned
208 (32.8%) exact matches, in which:
208 unique CDR3
6 unique J



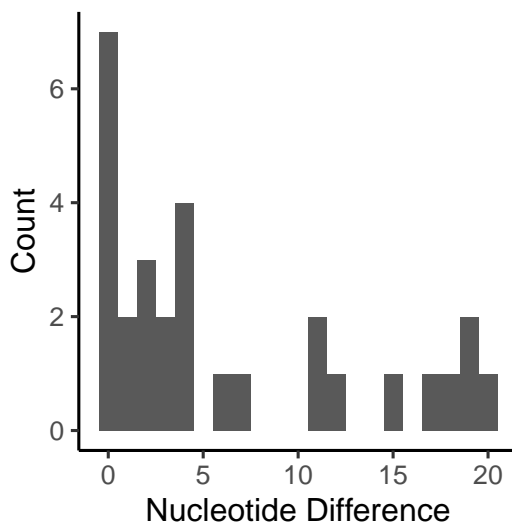
IGHV4-4*02

411 sequences assigned
44 (10.7%) exact matches, in which:
44 unique CDR3
6 unique J



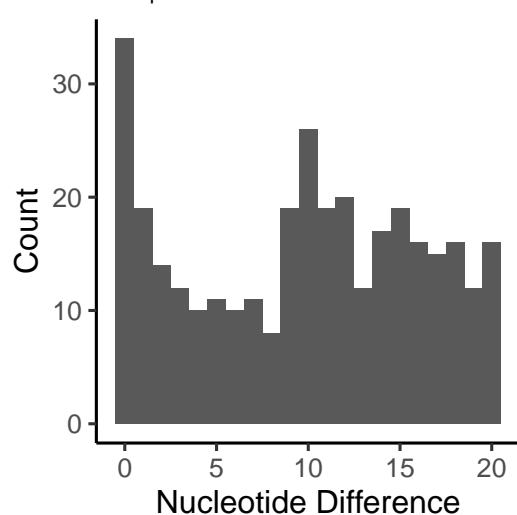
IGHV4-30-2*01

37 sequences assigned
7 (18.9%) exact matches, in which:
7 unique CDR3
3 unique J



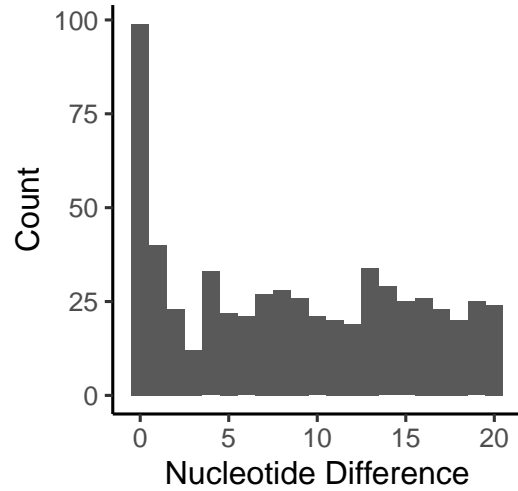
IGHV4-38-2*02_A70G

473 sequences assigned
34 (7.2%) exact matches, in which:
34 unique CDR3
6 unique J



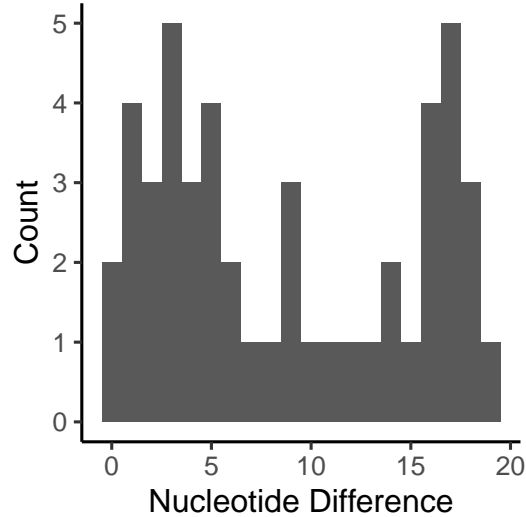
IGHV4-39*01

869 sequences assigned
99 (11.4%) exact matches, in which:
98 unique CDR3
6 unique J



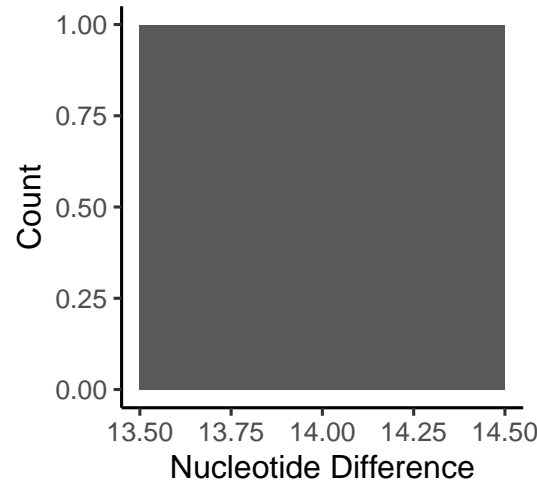
IGHV4-61*01

70 sequences assigned
2 (2.9%) exact matches, in which:
2 unique CDR3
1 unique J



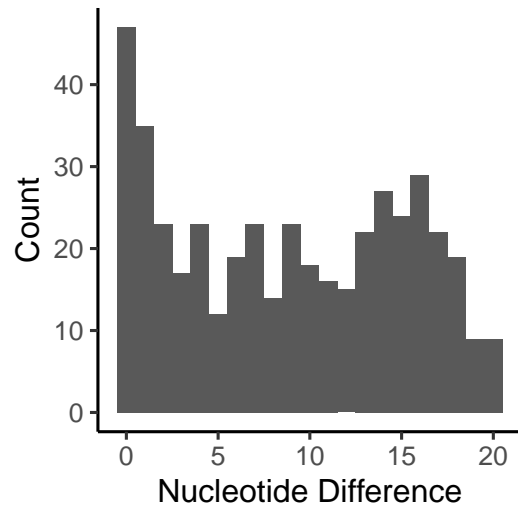
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



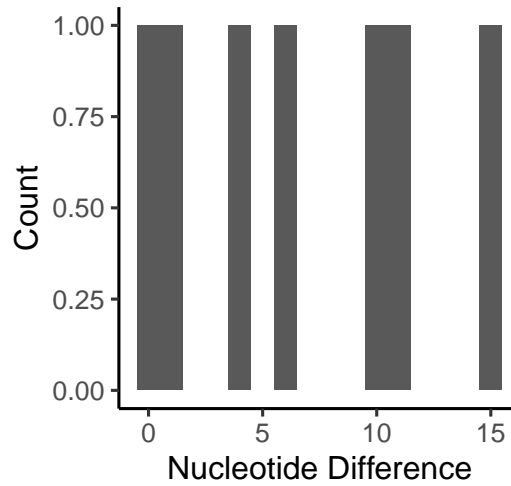
IGHV4-59*01

562 sequences assigned
47 (8.4%) exact matches, in which:
47 unique CDR3
5 unique J



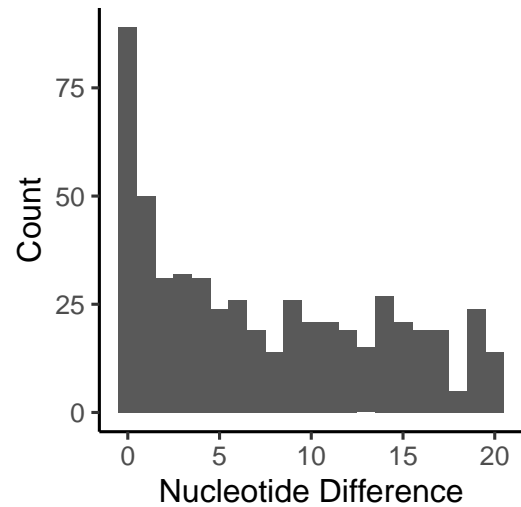
IGHV4-61*02

14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
1 unique J



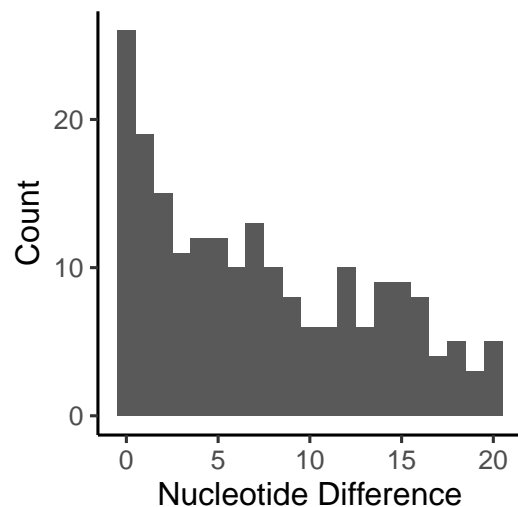
IGHV5-51*01

672 sequences assigned
89 (13.2%) exact matches, in which:
88 unique CDR3
5 unique J



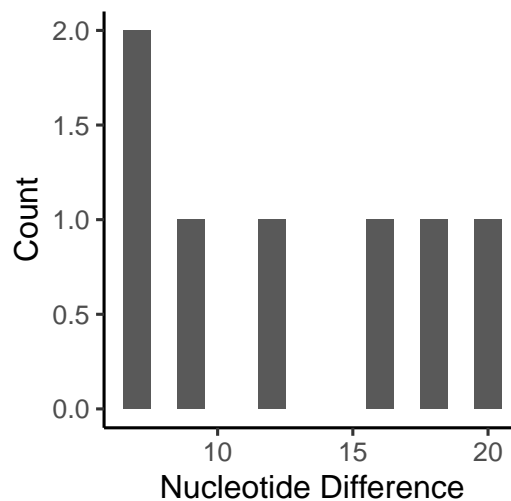
IGHV4-59*08

291 sequences assigned
26 (8.9%) exact matches, in which:
26 unique CDR3
5 unique J



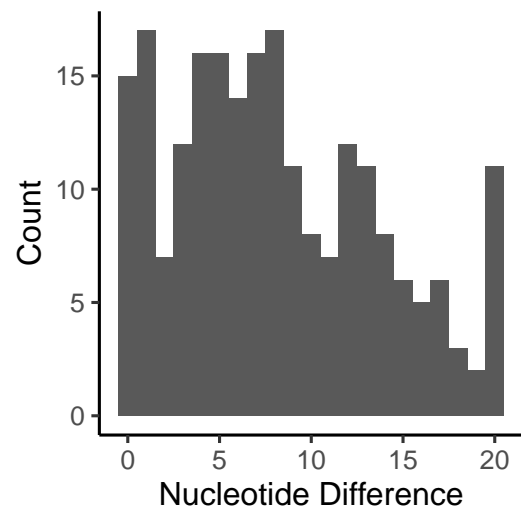
IGHV4-61*08

24 sequences assigned
No exact matches.



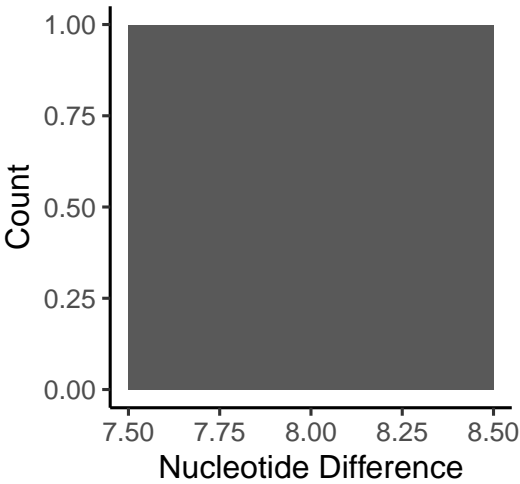
IGHV6-1*01

268 sequences assigned
15 (5.6%) exact matches, in which:
15 unique CDR3
5 unique J



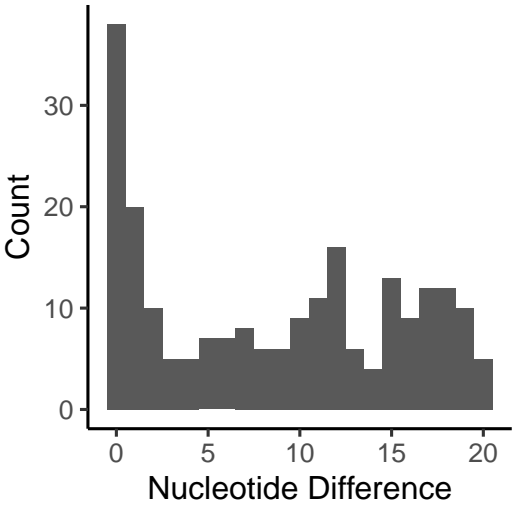
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



IGHV7-4-1*02

290 sequences assigned
38 (13.1%) exact matches, in which:
38 unique CDR3
6 unique J





Warning – no inferred sequences found.