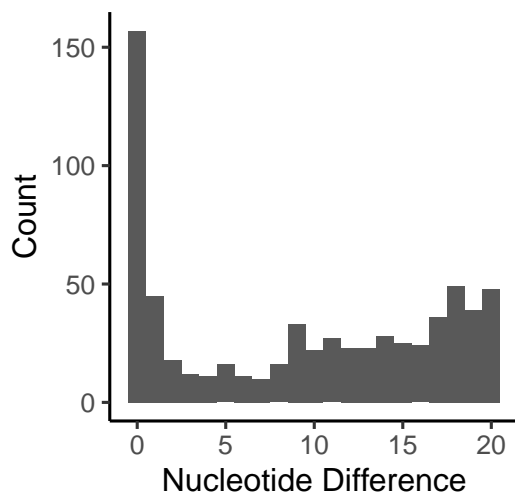


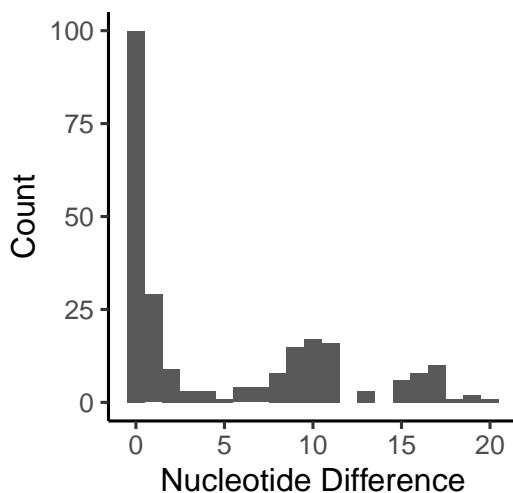
IGHV1-2*02

1128 sequences assigned
157 (13.9%) exact matches, in which:
156 unique CDR3
6 unique J



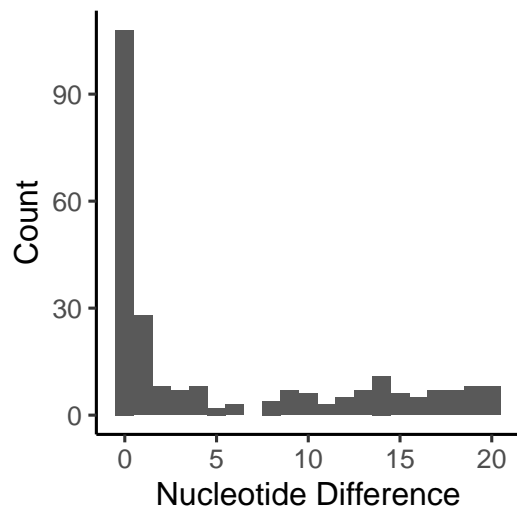
IGHV1-8*01

307 sequences assigned
100 (32.6%) exact matches, in which:
100 unique CDR3
5 unique J



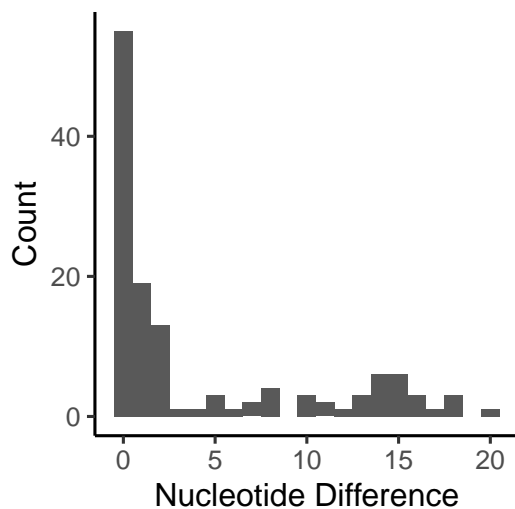
IGHV1-24*01

329 sequences assigned
108 (32.8%) exact matches, in which:
108 unique CDR3
5 unique J



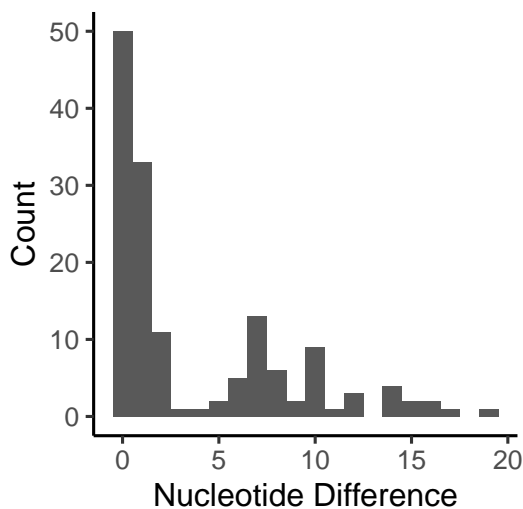
IGHV1-2*04

164 sequences assigned
55 (33.5%) exact matches, in which:
53 unique CDR3
4 unique J



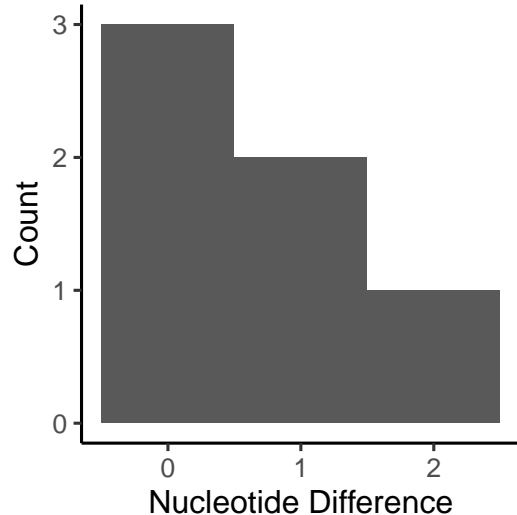
IGHV1-8*03

212 sequences assigned
50 (23.6%) exact matches, in which:
47 unique CDR3
6 unique J



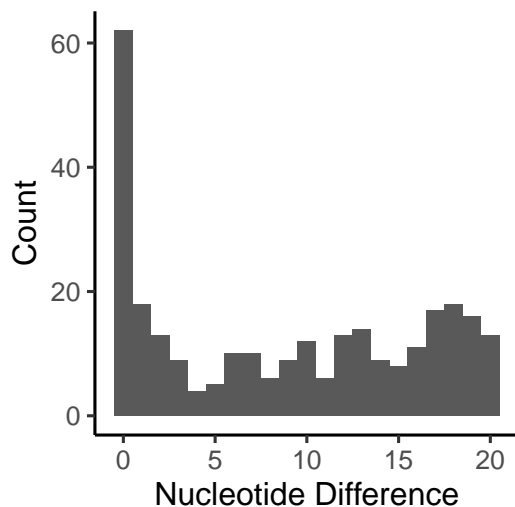
IGHV1-45*02

8 sequences assigned
3 (37.5%) exact matches, in which:
3 unique CDR3
2 unique J



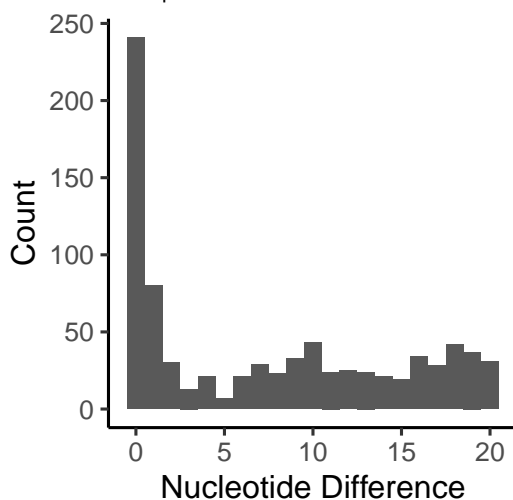
IGHV1-3*01

793 sequences assigned
62 (7.8%) exact matches, in which:
62 unique CDR3
5 unique J



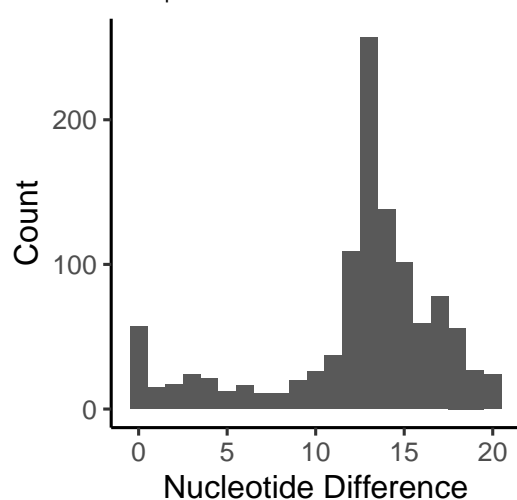
IGHV1-18*01

1319 sequences assigned
241 (18.3%) exact matches, in which:
239 unique CDR3
5 unique J



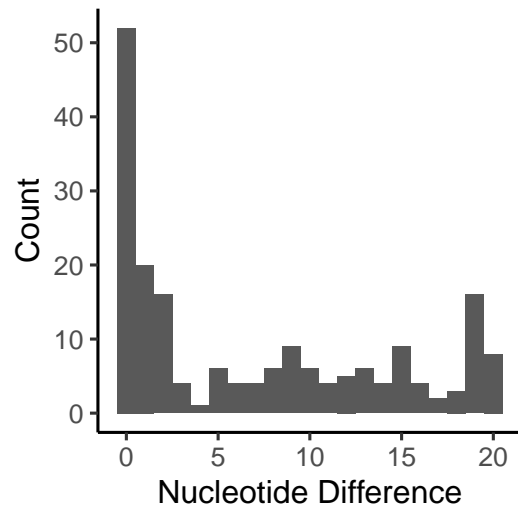
IGHV1-46*01

2297 sequences assigned
57 (2.5%) exact matches, in which:
57 unique CDR3
5 unique J



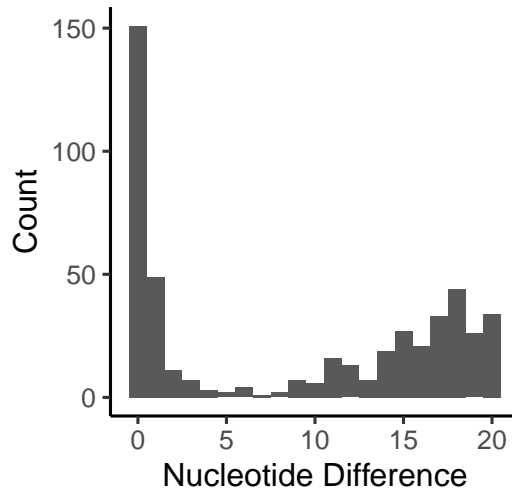
IGHV1-46*03

385 sequences assigned
52 (13.5%) exact matches, in which:
49 unique CDR3
5 unique J



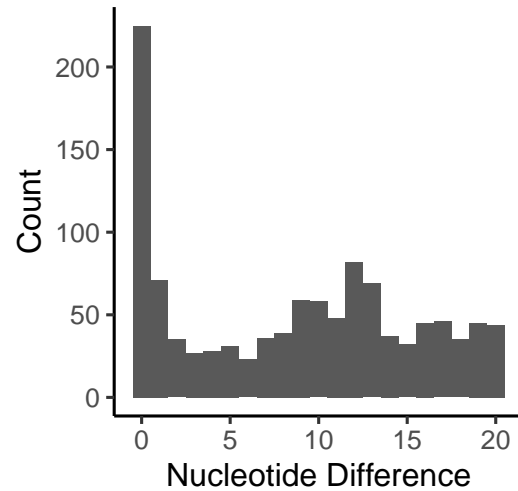
IGHV1-69*04

794 sequences assigned
151 (19%) exact matches, in which:
150 unique CDR3
5 unique J



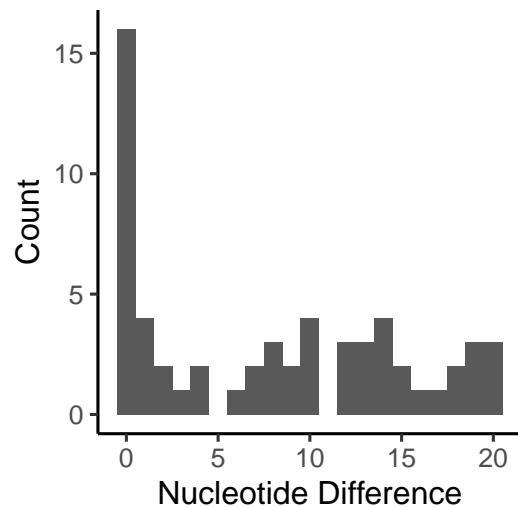
IGHV2-5*01

1432 sequences assigned
225 (15.7%) exact matches, in which:
224 unique CDR3
6 unique J



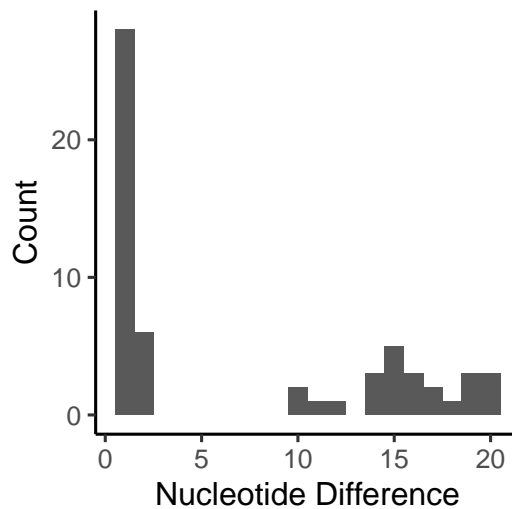
IGHV1-58*02

91 sequences assigned
16 (17.6%) exact matches, in which:
16 unique CDR3
4 unique J



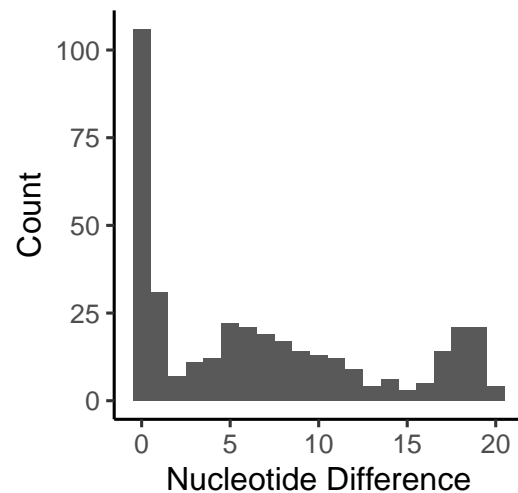
IGHV1-69*08

127 sequences assigned
No exact matches.



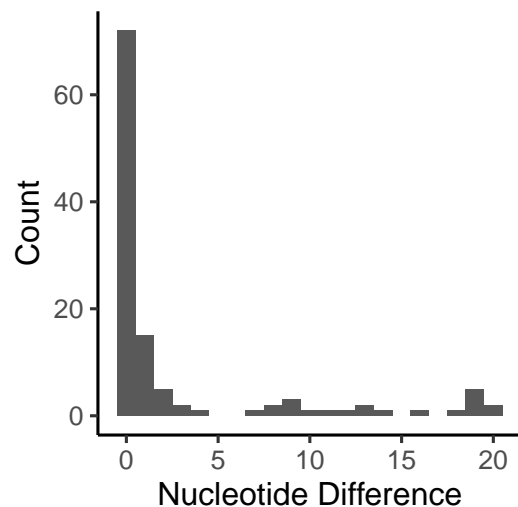
IGHV2-26*01

416 sequences assigned
106 (25.5%) exact matches, in which:
106 unique CDR3
5 unique J



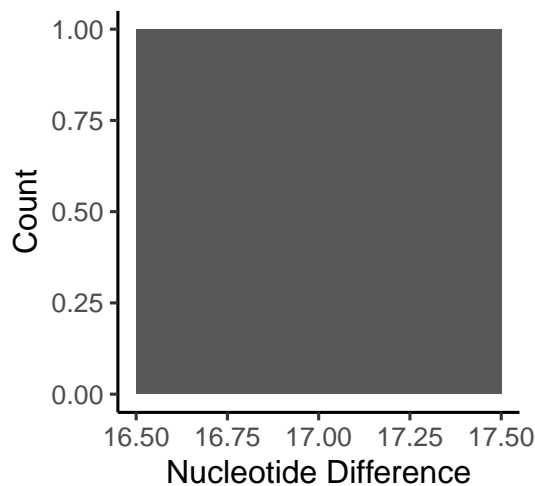
IGHV1-69*02

191 sequences assigned
72 (37.7%) exact matches, in which:
71 unique CDR3
6 unique J



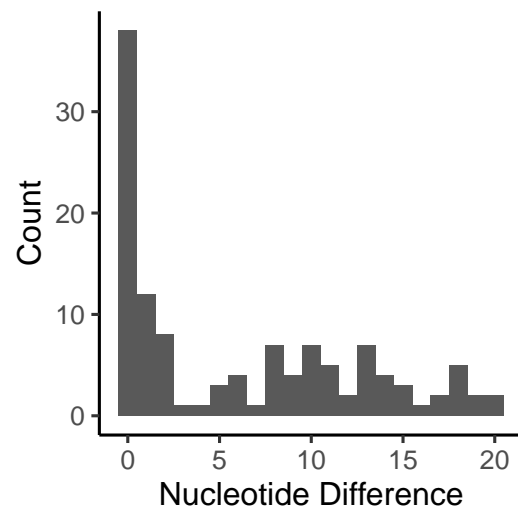
IGHV1-69D*01

2 sequences assigned
No exact matches.



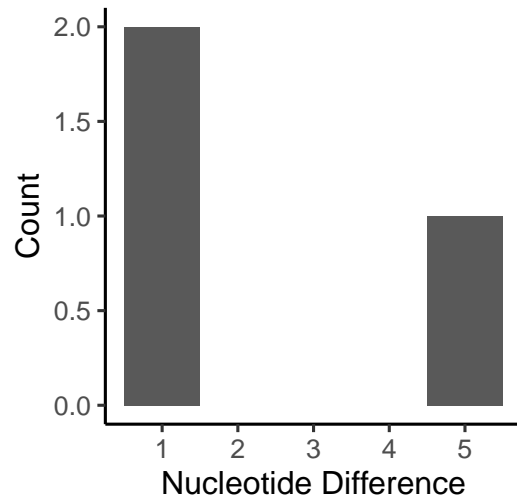
IGHV2-70*15

138 sequences assigned
38 (27.5%) exact matches, in which:
38 unique CDR3
5 unique J



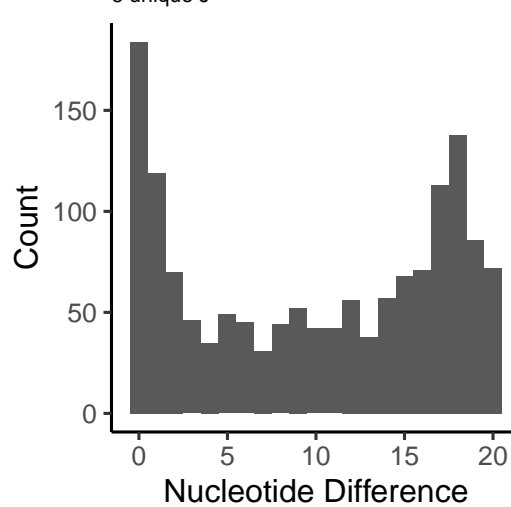
IGHV2-70D*04

3 sequences assigned
No exact matches.



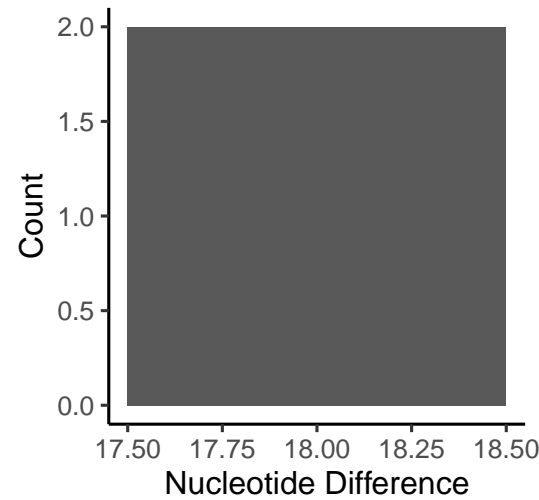
IGHV3-9*01

3038 sequences assigned
184 (6.1%) exact matches, in which:
181 unique CDR3
6 unique J



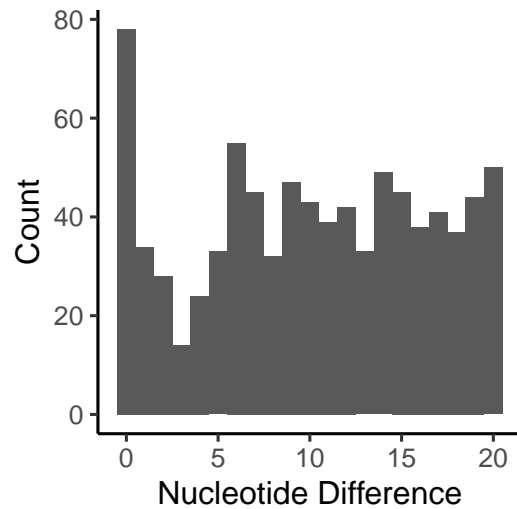
IGHV3-11*06

2 sequences assigned
No exact matches.



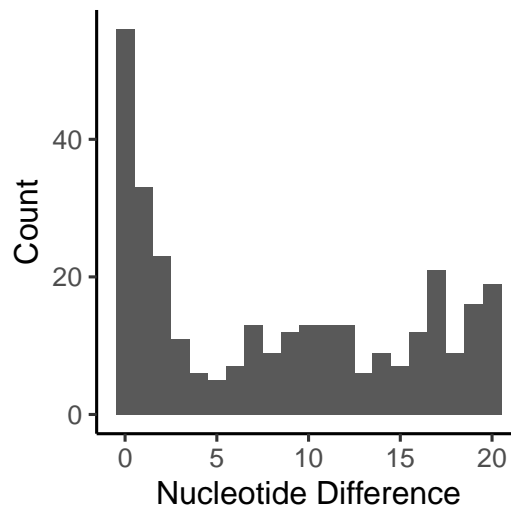
IGHV3-7*01

1243 sequences assigned
78 (6.3%) exact matches, in which:
76 unique CDR3
6 unique J



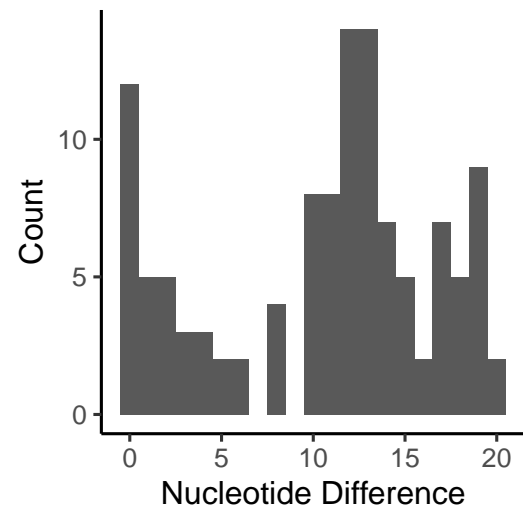
IGHV3-11*01

750 sequences assigned
56 (7.5%) exact matches, in which:
55 unique CDR3
5 unique J



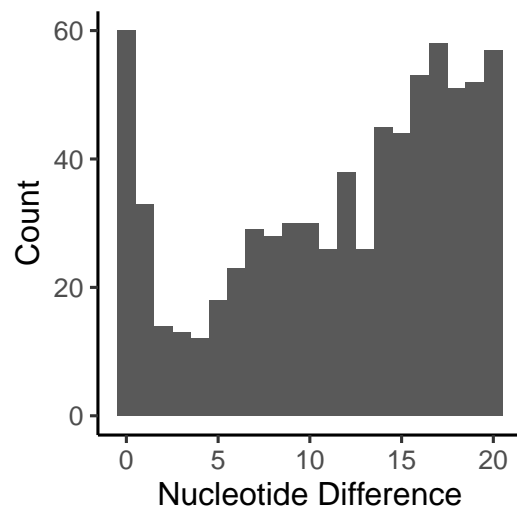
IGHV3-13*01

158 sequences assigned
12 (7.6%) exact matches, in which:
12 unique CDR3
4 unique J



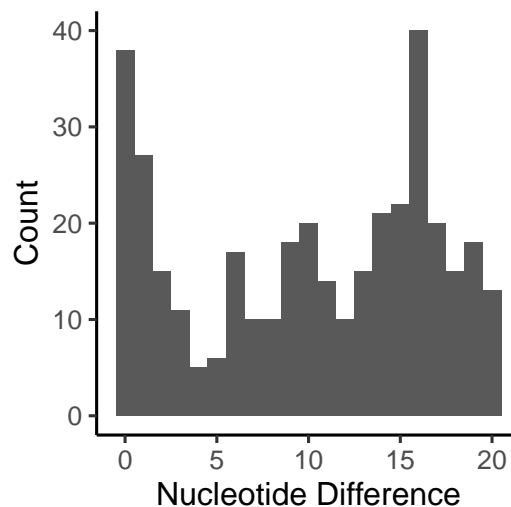
IGHV3-7*03

1152 sequences assigned
60 (5.2%) exact matches, in which:
60 unique CDR3
5 unique J



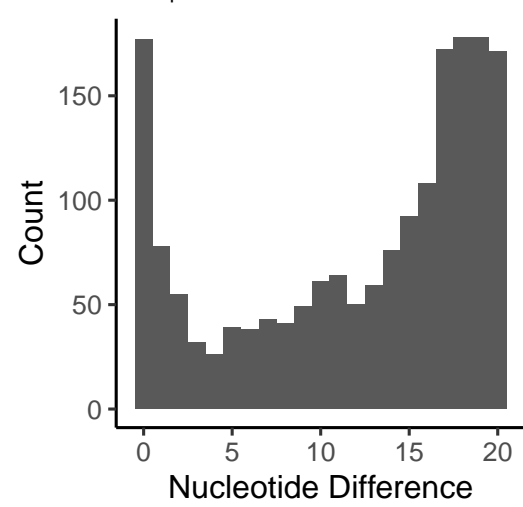
IGHV3-11*04

676 sequences assigned
38 (5.6%) exact matches, in which:
37 unique CDR3
5 unique J



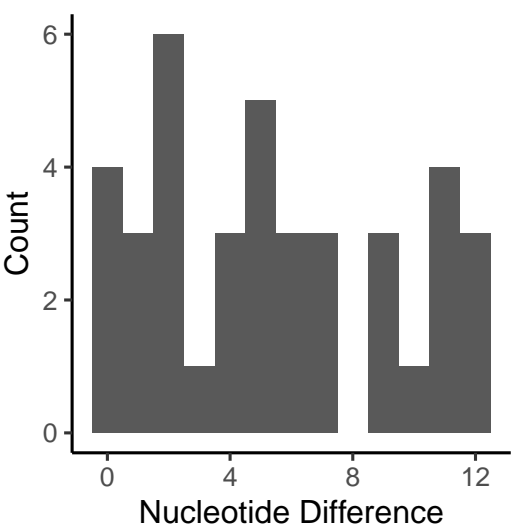
IGHV3-15*01

3339 sequences assigned
177 (5.3%) exact matches, in which:
175 unique CDR3
5 unique J



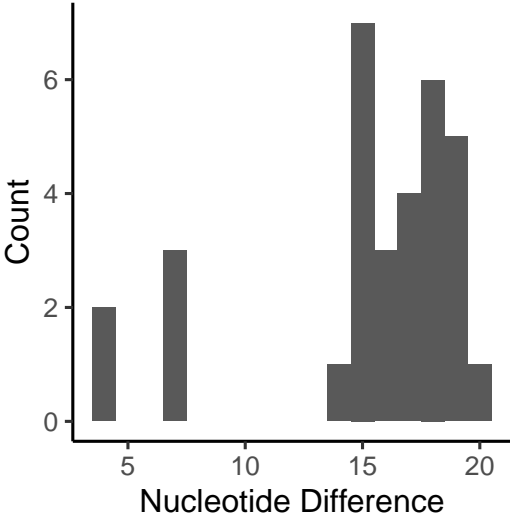
IGHV3-20*01

39 sequences assigned
4 (10.3%) exact matches, in which:
4 unique CDR3
3 unique J



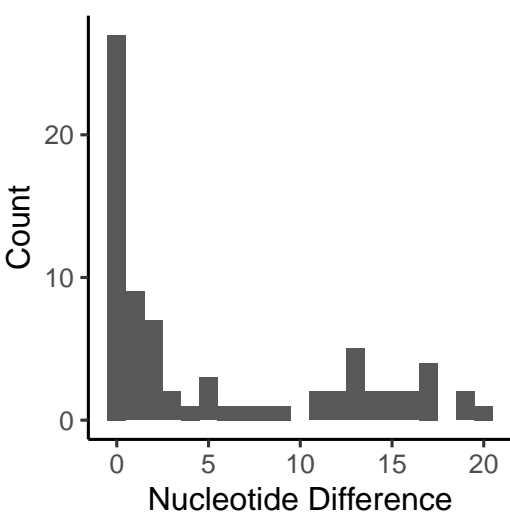
IGHV3-21*04

102 sequences assigned
No exact matches.



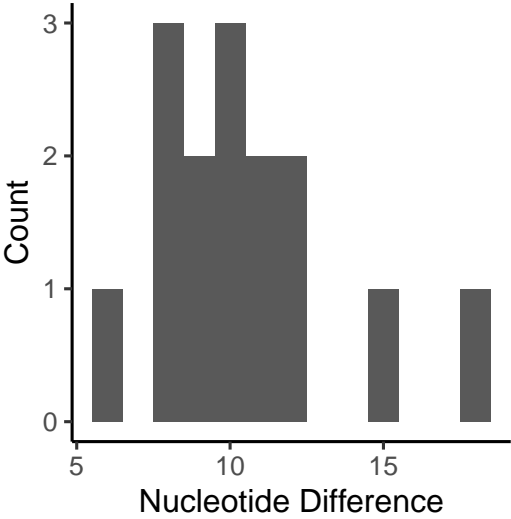
IGHV3-43*01

152 sequences assigned
27 (17.8%) exact matches, in which:
26 unique CDR3
4 unique J



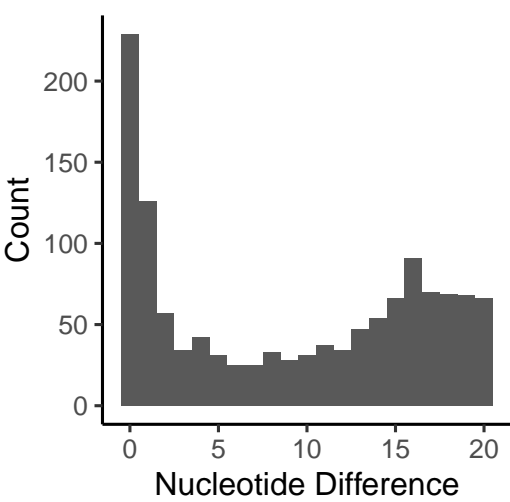
IGHV3-20*04

20 sequences assigned
No exact matches.



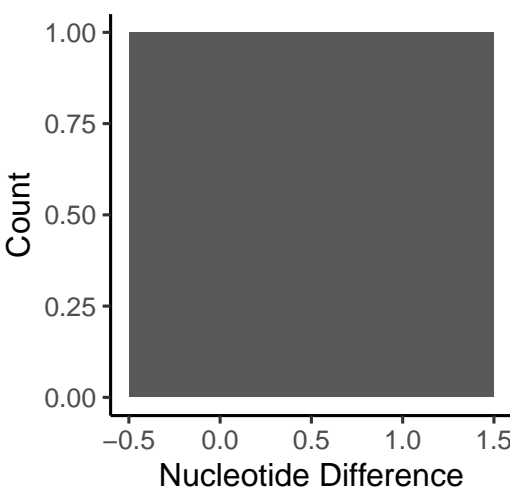
IGHV3-33*01

2138 sequences assigned
229 (10.7%) exact matches, in which:
226 unique CDR3
6 unique J



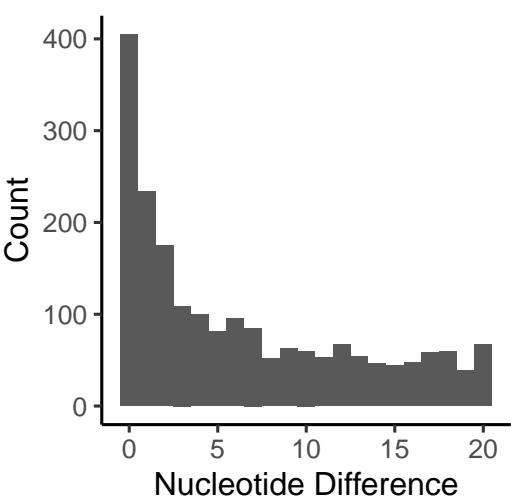
IGHV3-47*01

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



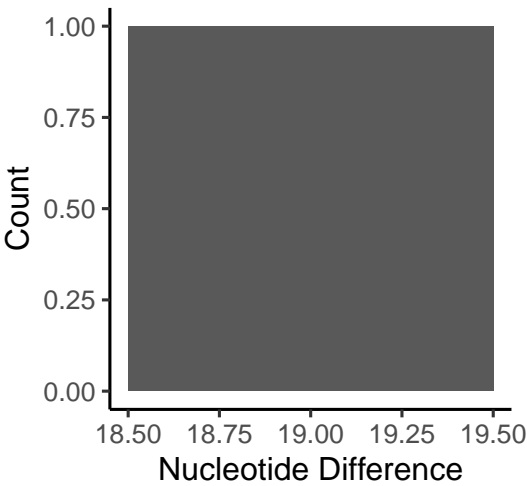
IGHV3-21*01

2756 sequences assigned
405 (14.7%) exact matches, in which:
357 unique CDR3
6 unique J



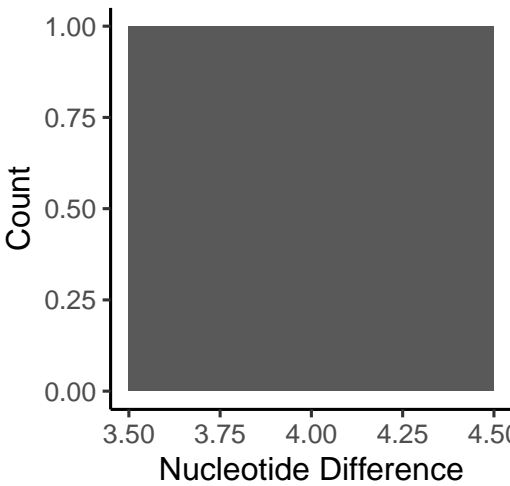
IGHV3-41*02

1 sequences assigned
No exact matches.



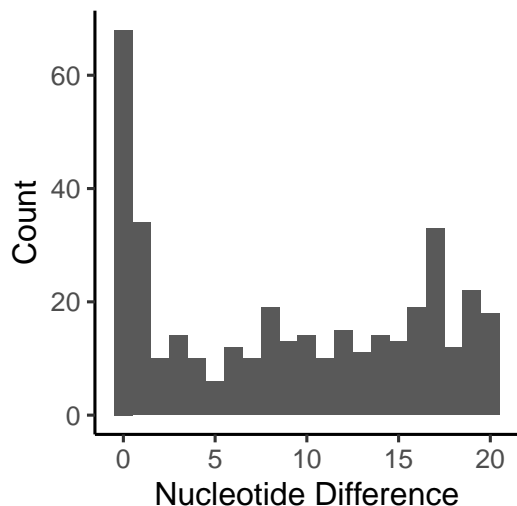
IGHV3-47*02

1 sequences assigned
No exact matches.



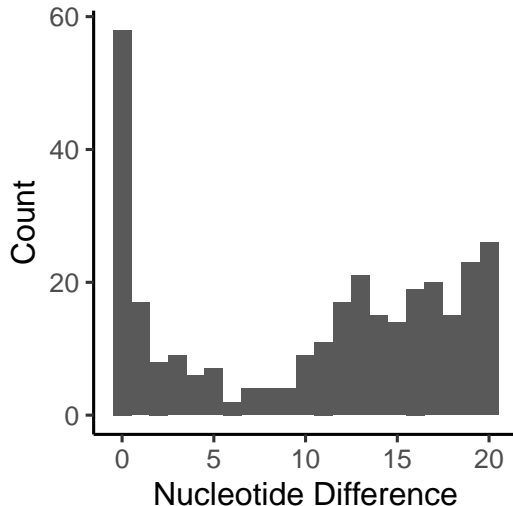
IGHV3-48*01

600 sequences assigned
68 (11.3%) exact matches, in which:
68 unique CDR3
5 unique J



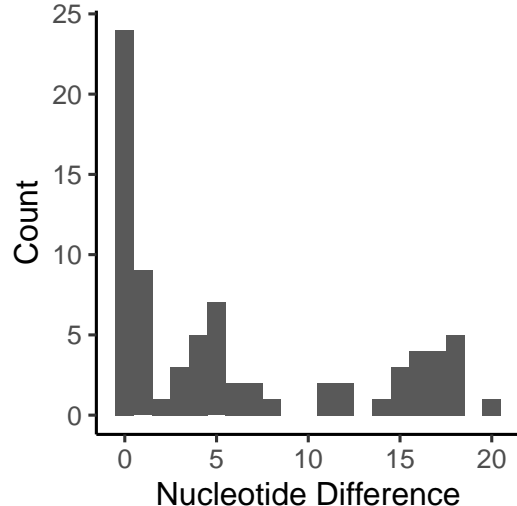
IGHV3-49*03

479 sequences assigned
58 (12.1%) exact matches, in which:
55 unique CDR3
6 unique J



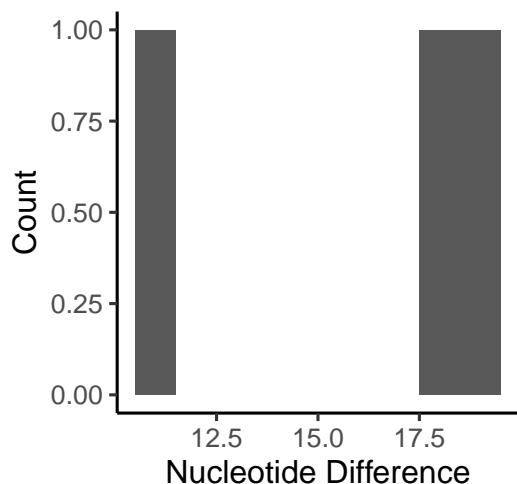
IGHV3-53*04

103 sequences assigned
24 (23.3%) exact matches, in which:
24 unique CDR3
5 unique J



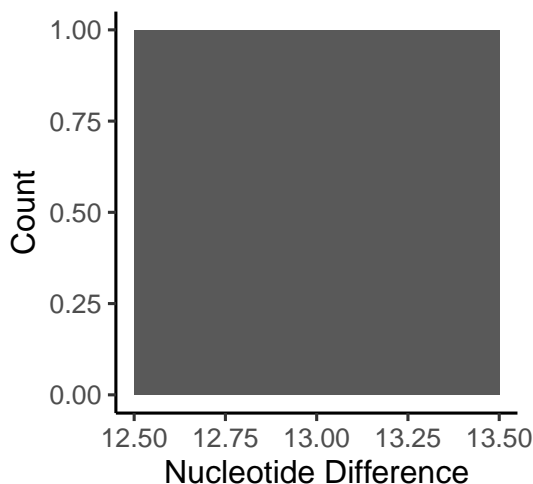
IGHV3-48*03

14 sequences assigned
No exact matches.



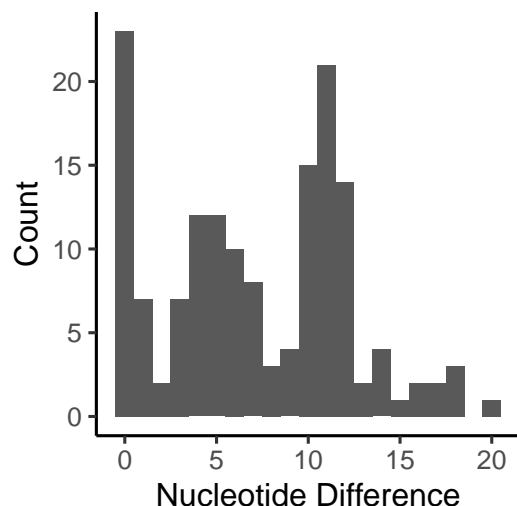
IGHV3-52*02

3 sequences assigned
No exact matches.



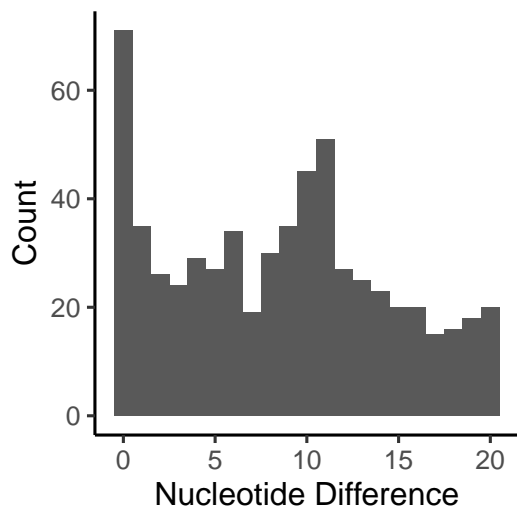
IGHV3-64*01

216 sequences assigned
23 (10.6%) exact matches, in which:
23 unique CDR3
4 unique J



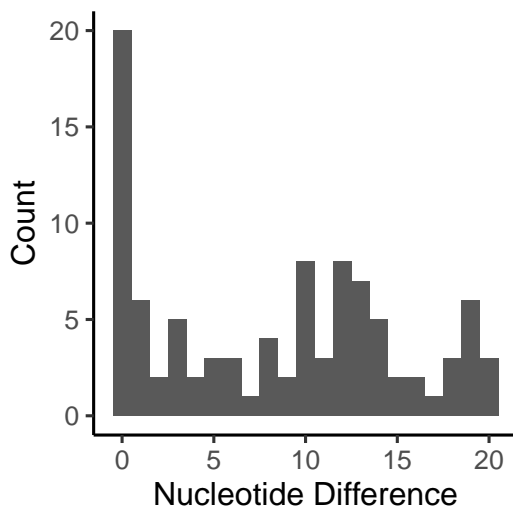
IGHV3-48*04

846 sequences assigned
71 (8.4%) exact matches, in which:
68 unique CDR3
5 unique J



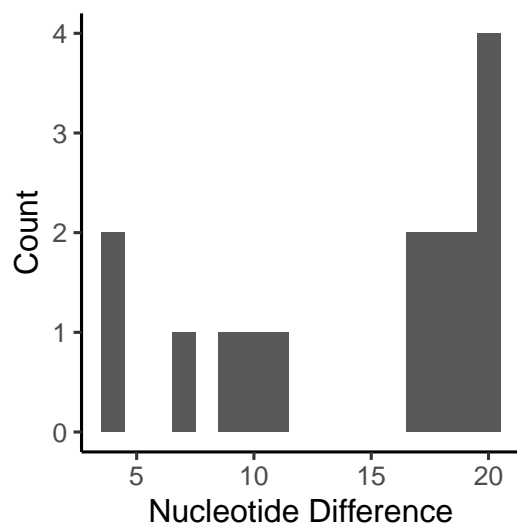
IGHV3-53*02

170 sequences assigned
20 (11.8%) exact matches, in which:
20 unique CDR3
3 unique J



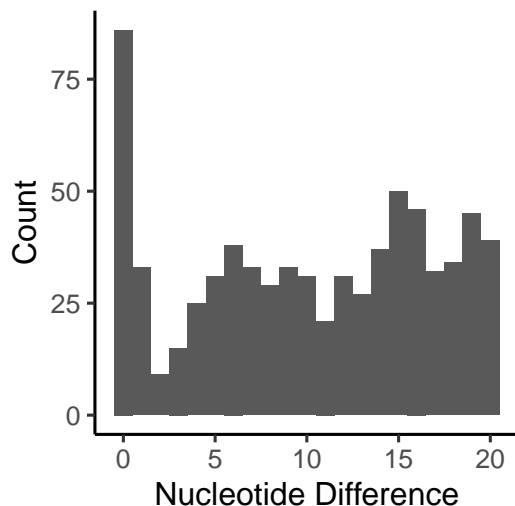
IGHV3-64*07

47 sequences assigned
No exact matches.



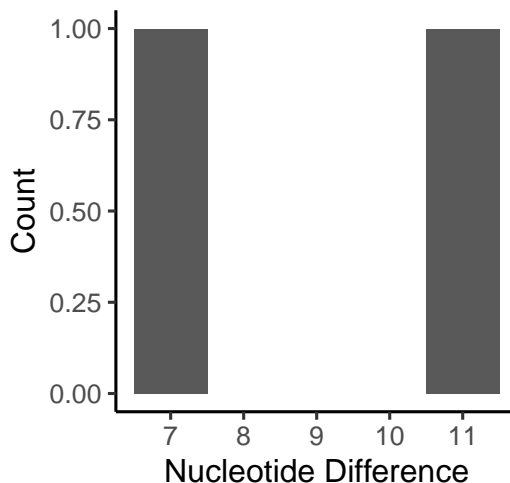
IGHV3-66*01

3274 sequences assigned
86 (2.6%) exact matches, in which:
80 unique CDR3
5 unique J



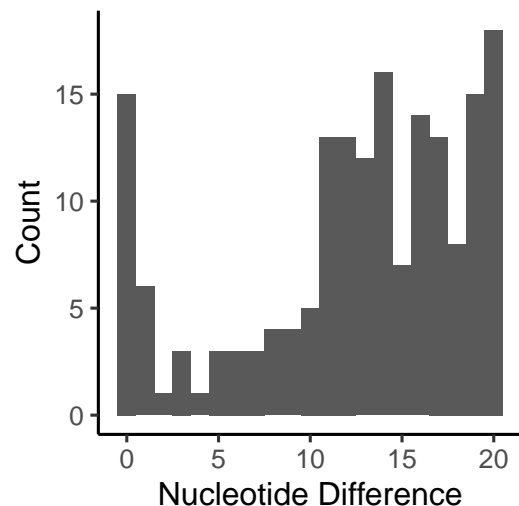
IGHV3-69-1*01

3 sequences assigned
No exact matches.



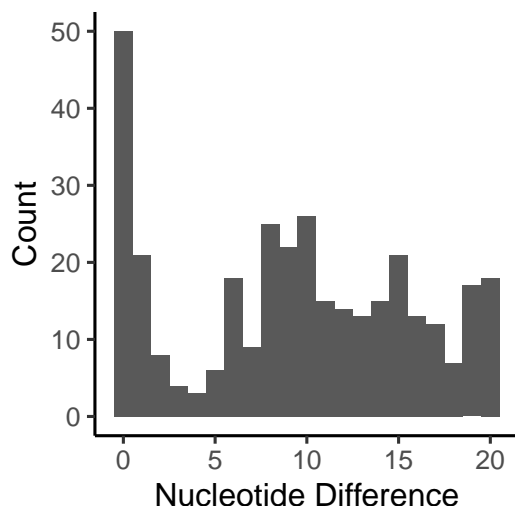
IGHV3-73*01

364 sequences assigned
15 (4.1%) exact matches, in which:
14 unique CDR3
5 unique J



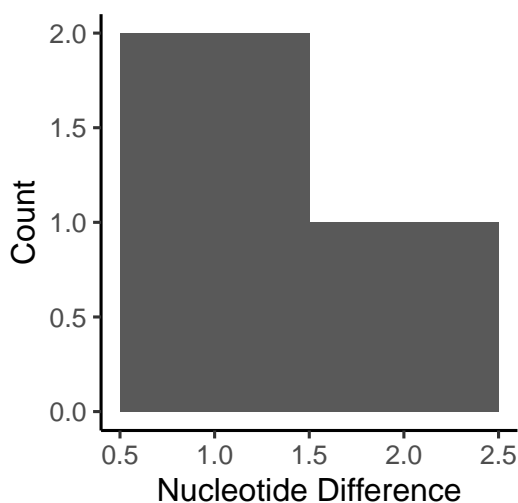
IGHV3-66*02

515 sequences assigned
50 (9.7%) exact matches, in which:
50 unique CDR3
6 unique J



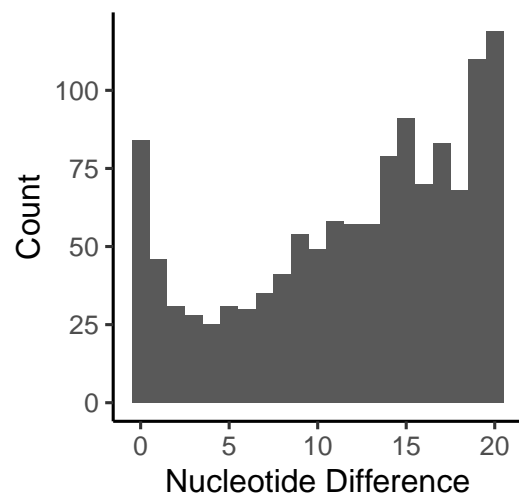
IGHV3-71*02

3 sequences assigned
No exact matches.



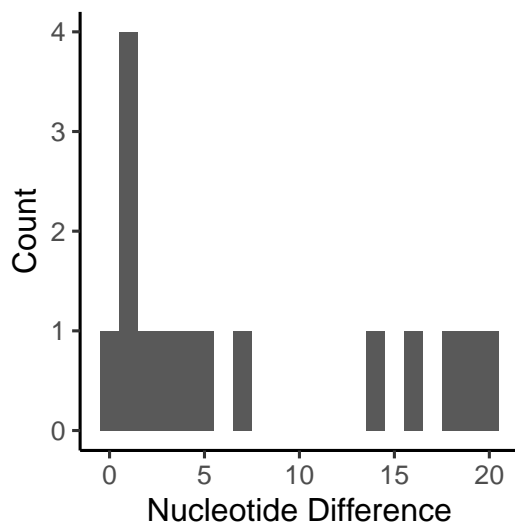
IGHV3-74*01

2094 sequences assigned
84 (4%) exact matches, in which:
81 unique CDR3
5 unique J



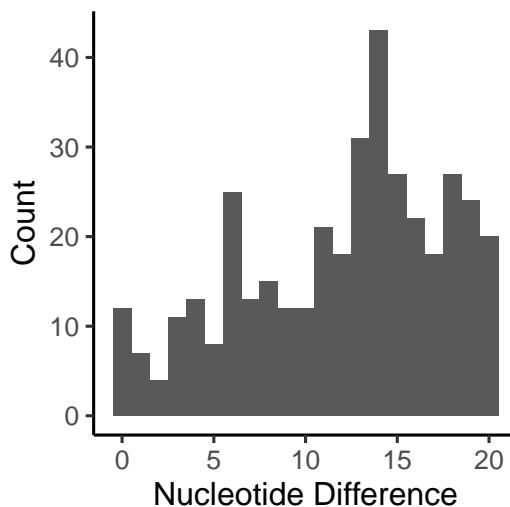
IGHV3-66*03

17 sequences assigned
1 (5.9%) exact matches, in which:
1 unique CDR3
1 unique J



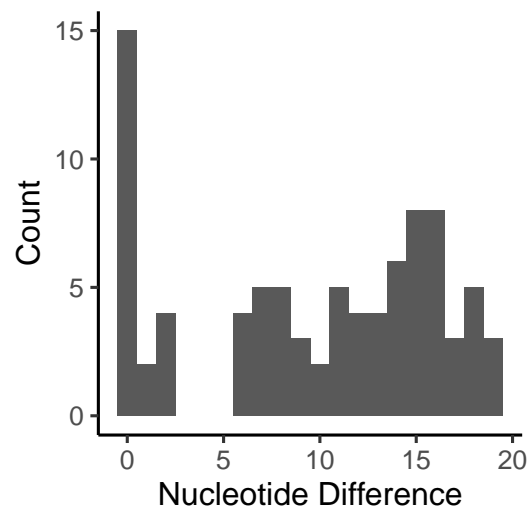
IGHV3-72*01

589 sequences assigned
12 (2%) exact matches, in which:
12 unique CDR3
4 unique J



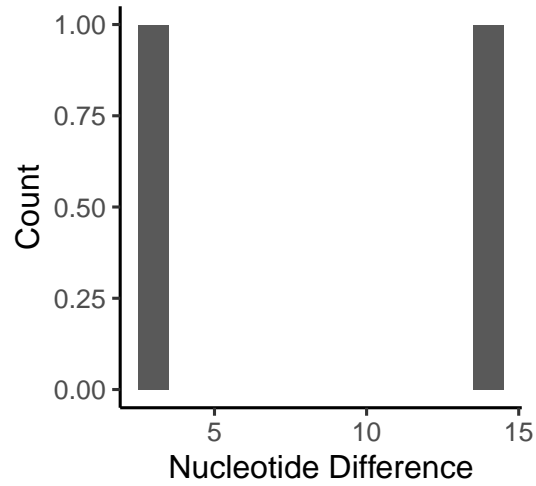
IGHV3-43D*03

112 sequences assigned
15 (13.4%) exact matches, in which:
15 unique CDR3
2 unique J



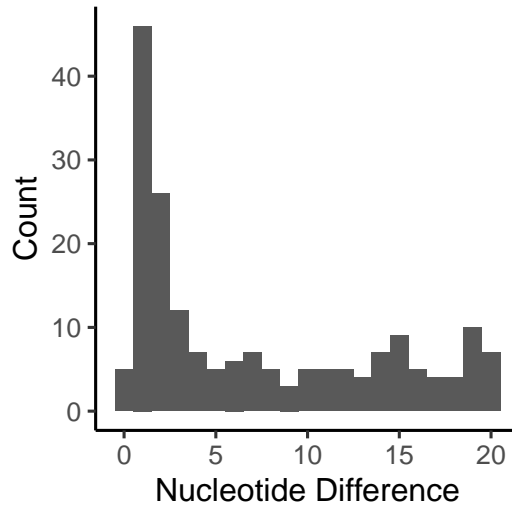
IGHV3-64D*06

2 sequences assigned
No exact matches.



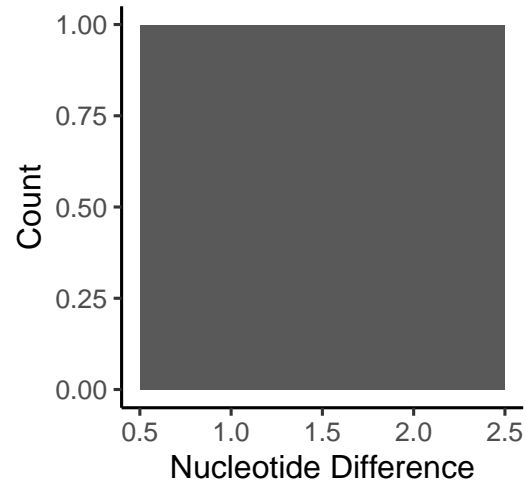
IGHV4-4*07

444 sequences assigned
5 (1.1%) exact matches, in which:
4 unique CDR3
2 unique J



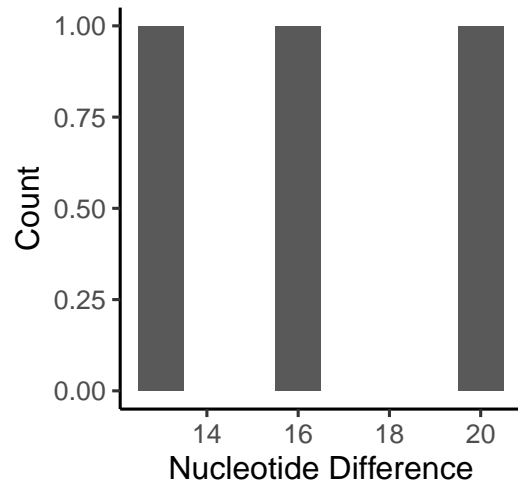
IGHV4-28*04

2 sequences assigned
No exact matches.



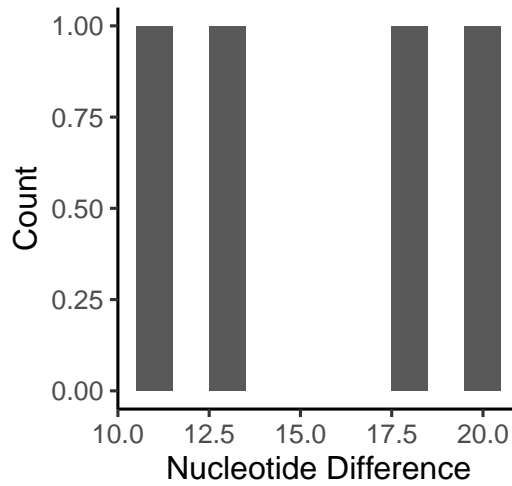
IGHV3-NL1*01

5 sequences assigned
No exact matches.



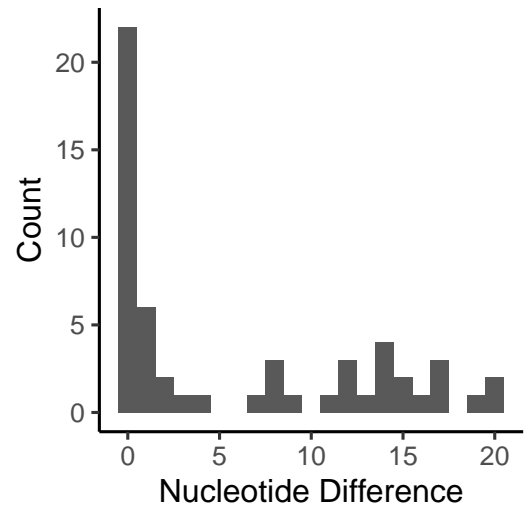
IGHV4-4*08

9 sequences assigned
No exact matches.



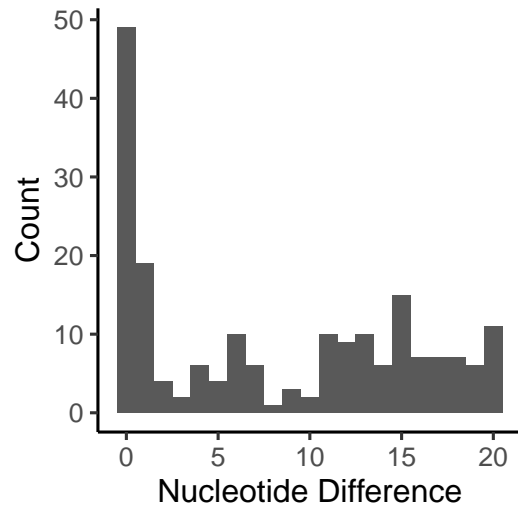
IGHV4-30-2*01

80 sequences assigned
22 (27.5%) exact matches, in which:
22 unique CDR3
4 unique J



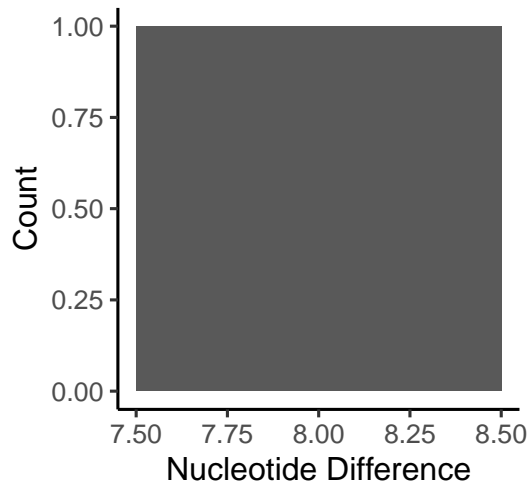
IGHV4-4*02

277 sequences assigned
49 (17.7%) exact matches, in which:
48 unique CDR3
5 unique J



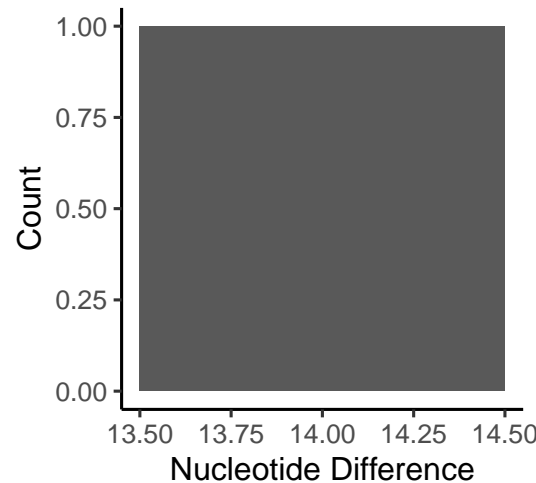
IGHV4-28*03

1 sequences assigned
No exact matches.



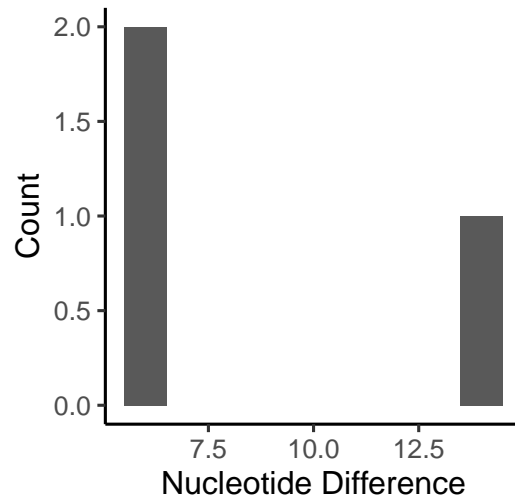
IGHV4-30-4*03

1 sequences assigned
No exact matches.



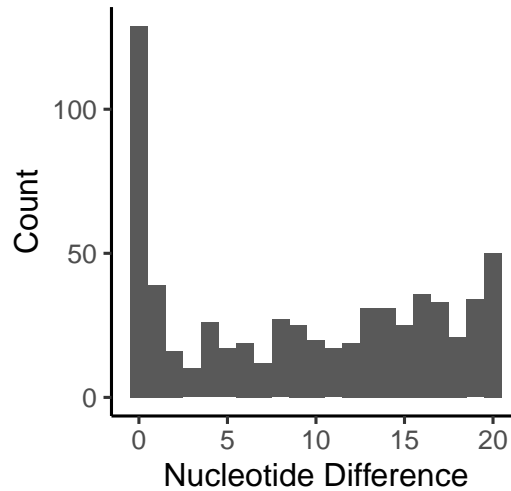
IGHV4-30-4*07

4 sequences assigned
No exact matches.



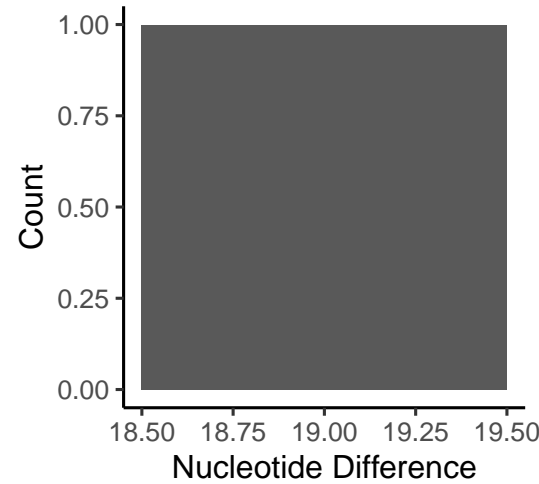
IGHV4-38-2*02

990 sequences assigned
129 (13%) exact matches, in which:
127 unique CDR3
6 unique J



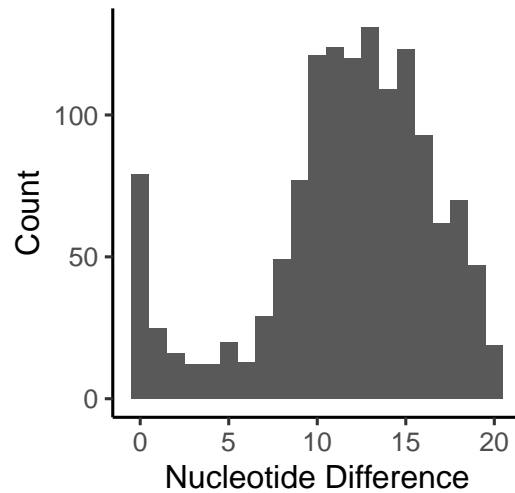
IGHV4-55*09

1 sequences assigned
No exact matches.



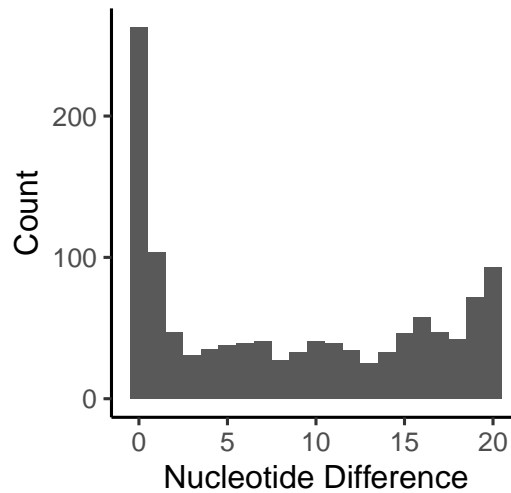
IGHV4-31*03

1909 sequences assigned
79 (4.1%) exact matches, in which:
75 unique CDR3
5 unique J



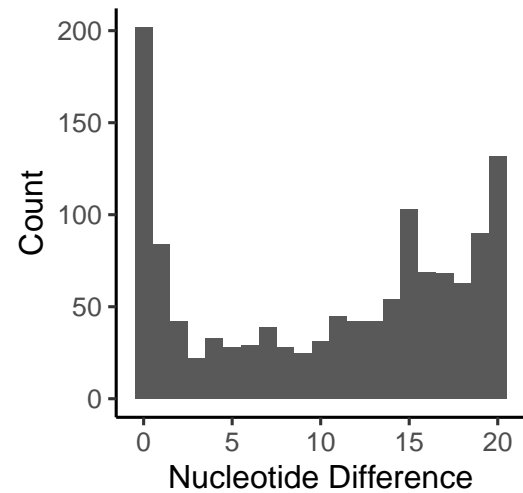
IGHV4-39*01

3029 sequences assigned
263 (8.7%) exact matches, in which:
261 unique CDR3
6 unique J



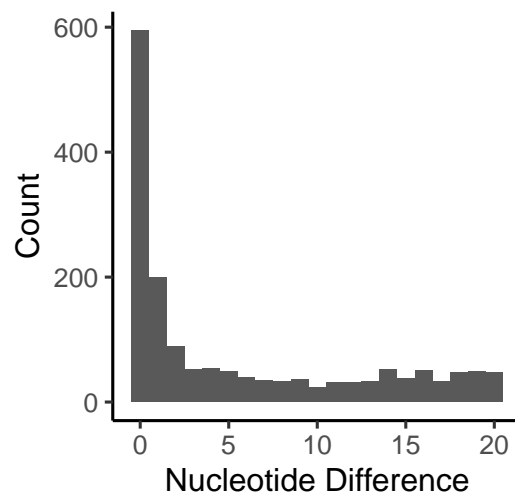
IGHV4-59*01

2629 sequences assigned
202 (7.7%) exact matches, in which:
195 unique CDR3
6 unique J



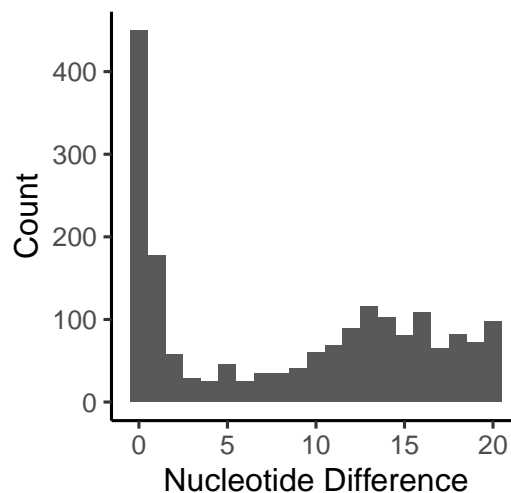
IGHV4-34*01

2180 sequences assigned
595 (27.3%) exact matches, in which:
586 unique CDR3
6 unique J



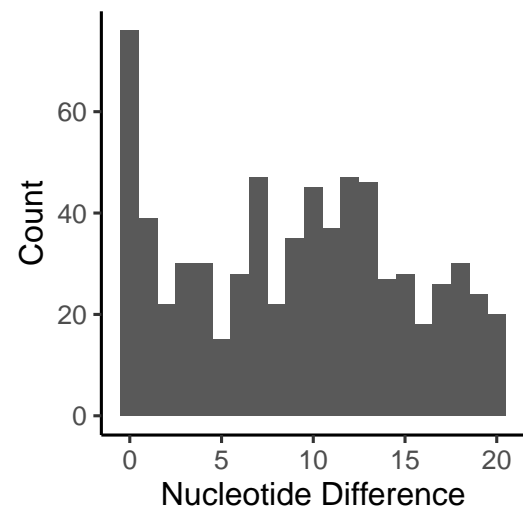
IGHV4-39*07

2803 sequences assigned
450 (16.1%) exact matches, in which:
440 unique CDR3
6 unique J



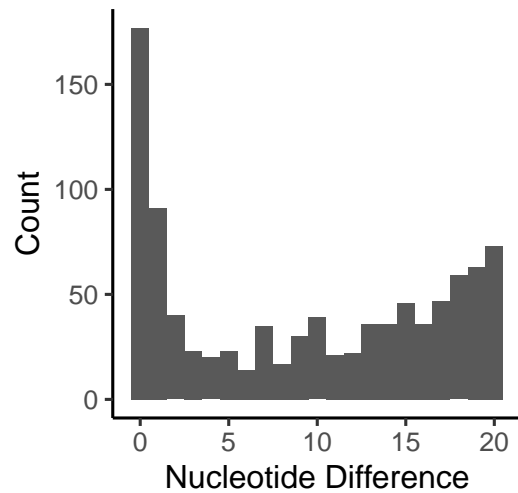
IGHV4-59*08

916 sequences assigned
76 (8.3%) exact matches, in which:
75 unique CDR3
5 unique J



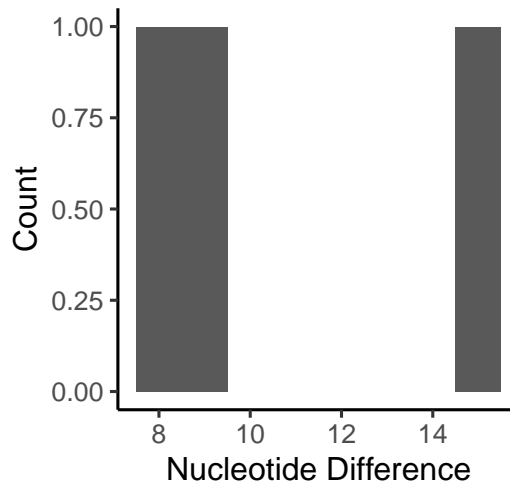
IGHV4–61*02

1635 sequences assigned
177 (10.8%) exact matches, in which:
172 unique CDR3
6 unique J



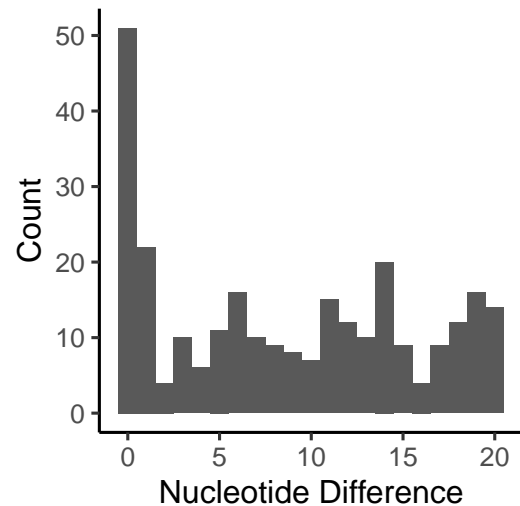
IGHV4/OR15–8*02

5 sequences assigned
No exact matches.



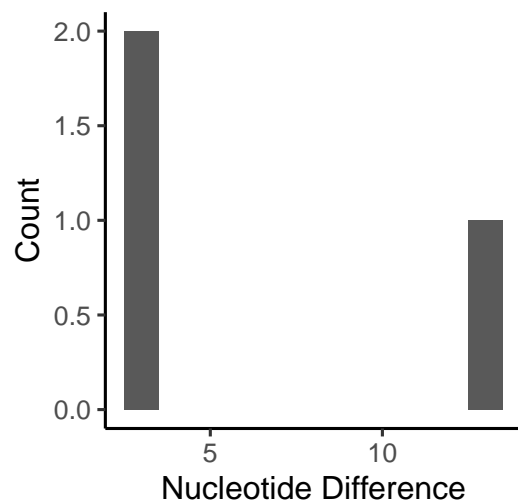
IGHV5–51*03

451 sequences assigned
51 (11.3%) exact matches, in which:
51 unique CDR3
5 unique J



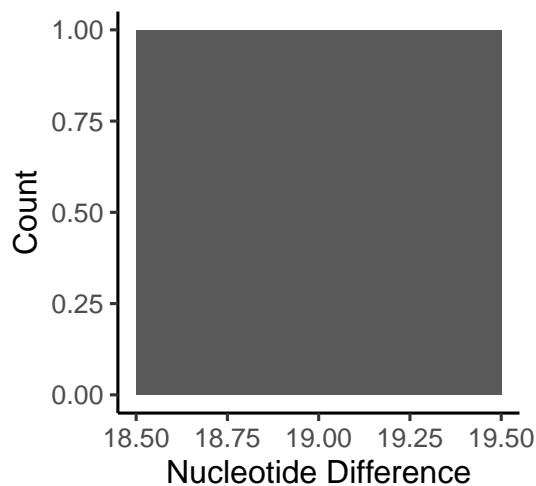
IGHV1/OR15–1*04

5 sequences assigned
No exact matches.



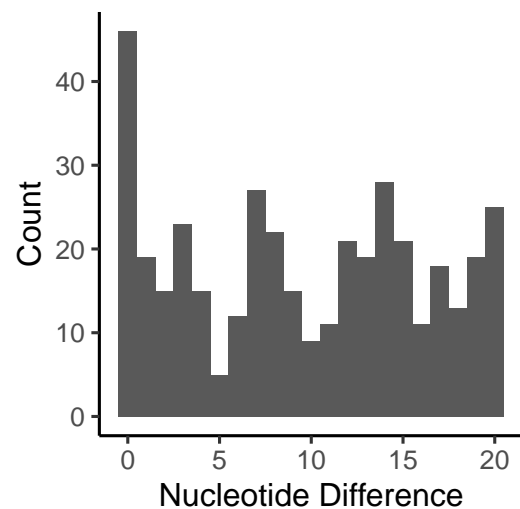
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



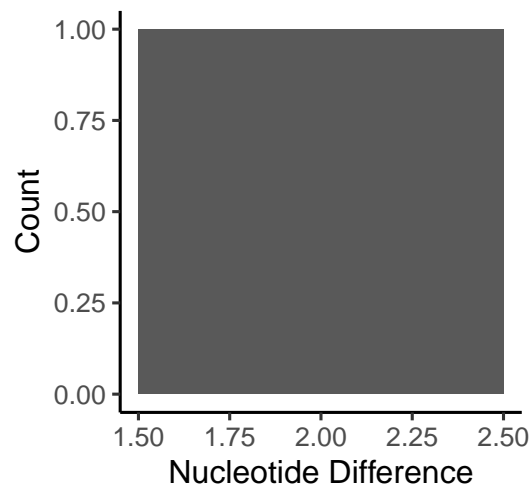
IGHV6–1*01

705 sequences assigned
46 (6.5%) exact matches, in which:
45 unique CDR3
5 unique J



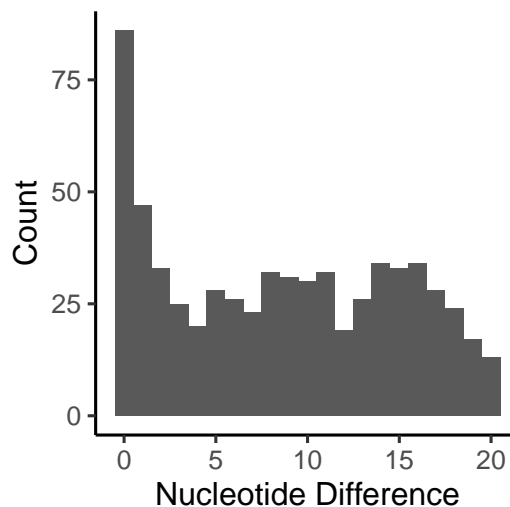
IGHV1/OR15–2*01

1 sequences assigned
No exact matches.



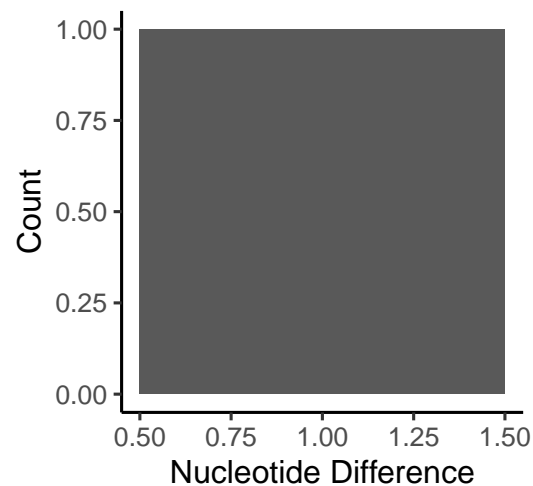
IGHV5–51*01

934 sequences assigned
86 (9.2%) exact matches, in which:
86 unique CDR3
5 unique J



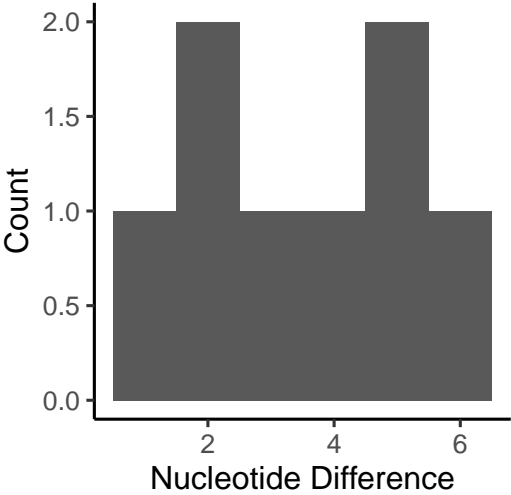
IGHV3/OR16–8*01

1 sequences assigned
No exact matches.



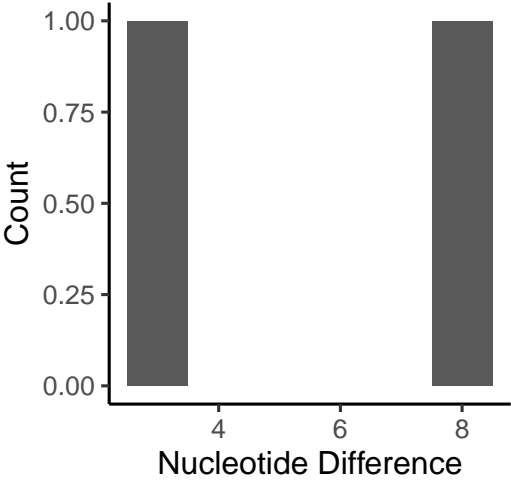
IGHV3/OR16–9*01

8 sequences assigned
No exact matches.



IGHV3/OR16–12*01

3 sequences assigned
No exact matches.





Warning – no inferred sequences found.