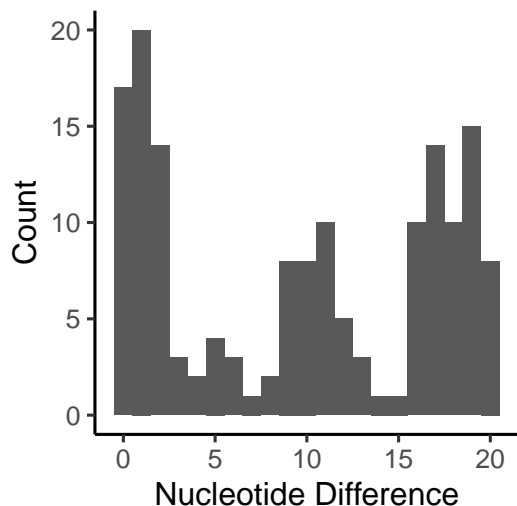


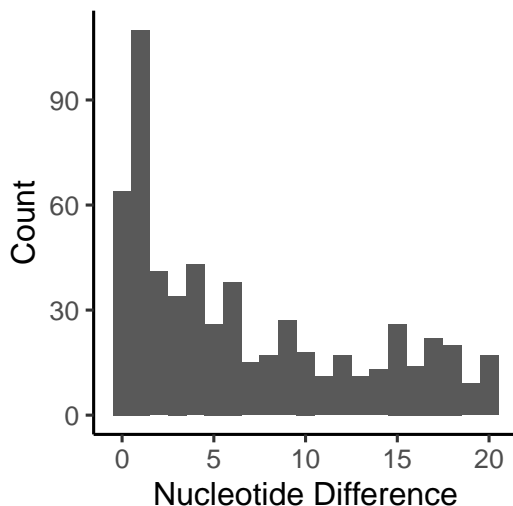
IGHV1-2*04

197 sequences assigned
17 (8.6%) exact matches, in which:
11 unique CDR3
4 unique J



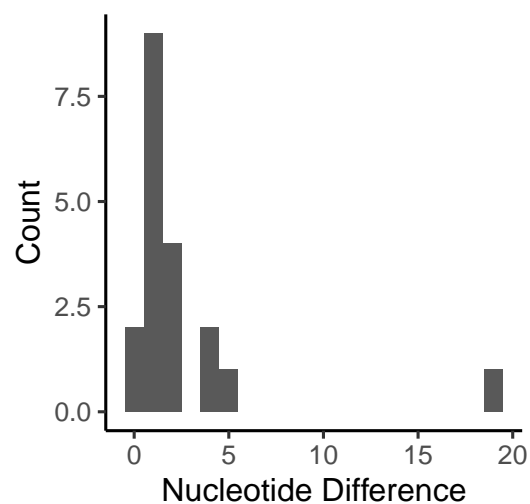
IGHV1-8*01

697 sequences assigned
64 (9.2%) exact matches, in which:
48 unique CDR3
5 unique J



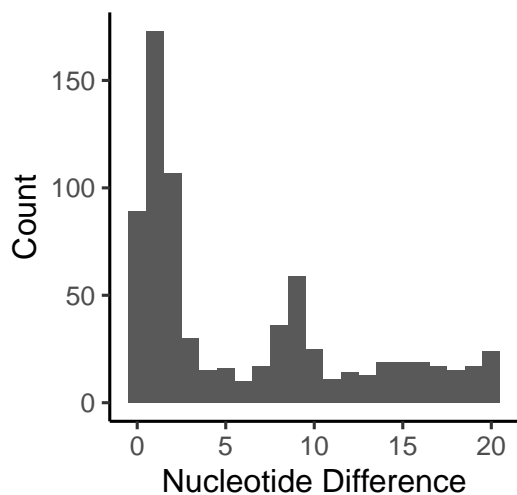
IGHV1-45*02

19 sequences assigned
2 (10.5%) exact matches, in which:
1 unique CDR3
1 unique J



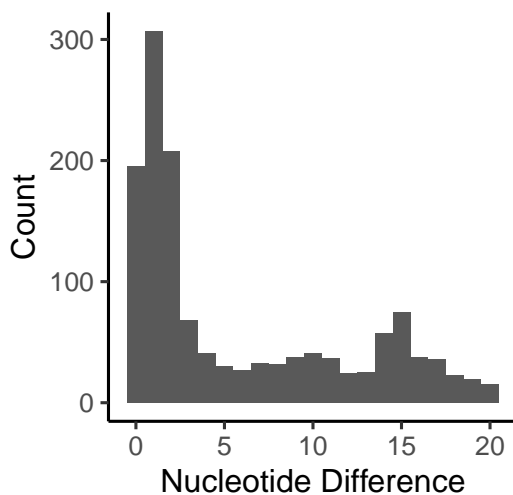
IGHV1-3*01

919 sequences assigned
89 (9.7%) exact matches, in which:
61 unique CDR3
5 unique J



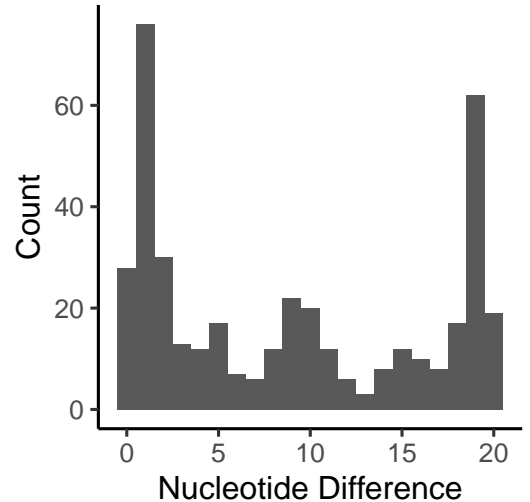
IGHV1-18*01

1879 sequences assigned
195 (10.4%) exact matches, in which:
110 unique CDR3
6 unique J



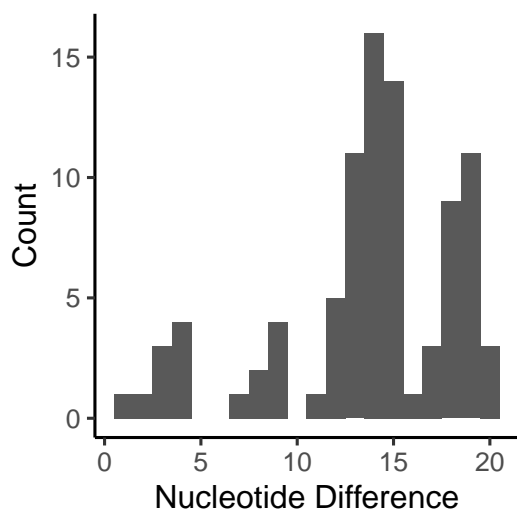
IGHV1-46*01

635 sequences assigned
28 (4.4%) exact matches, in which:
19 unique CDR3
5 unique J



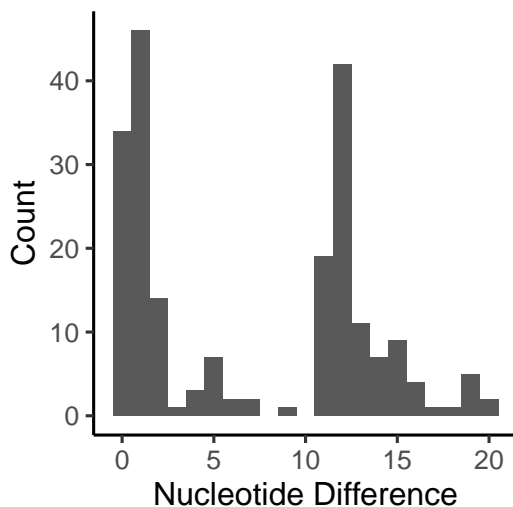
IGHV1-3*04

124 sequences assigned
No exact matches.



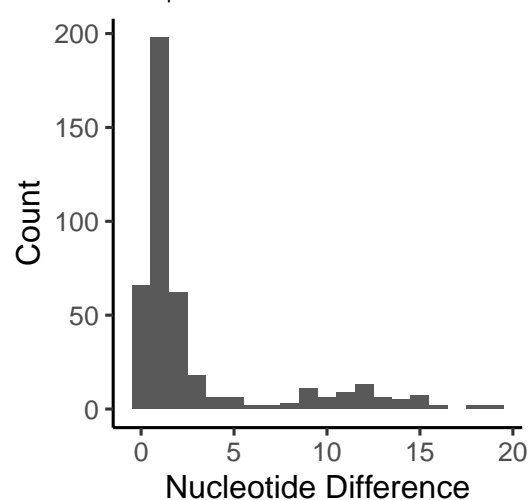
IGHV1-24*01

215 sequences assigned
34 (15.8%) exact matches, in which:
25 unique CDR3
4 unique J



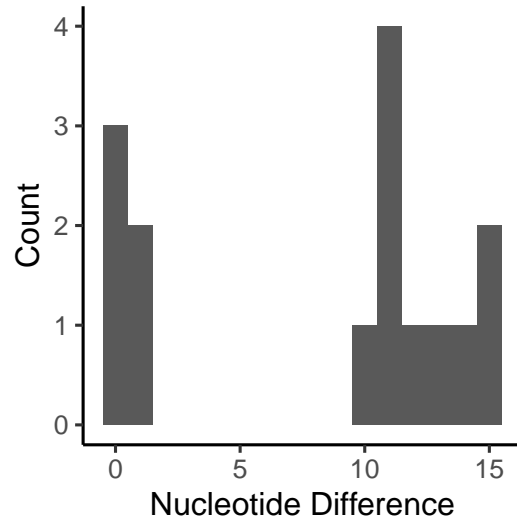
IGHV1-46*03

475 sequences assigned
66 (13.9%) exact matches, in which:
40 unique CDR3
4 unique J



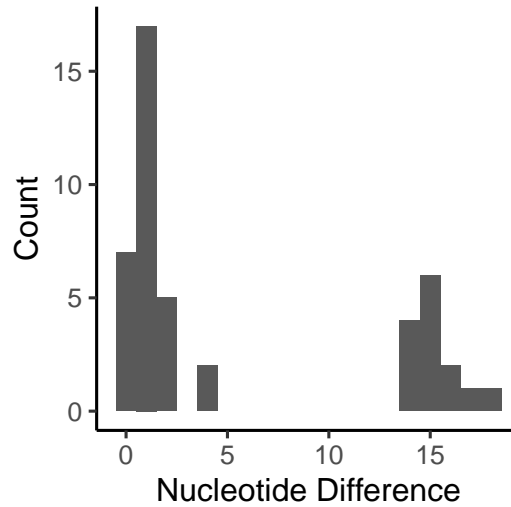
IGHV1-58*01

16 sequences assigned
3 (18.8%) exact matches, in which:
2 unique CDR3
1 unique J



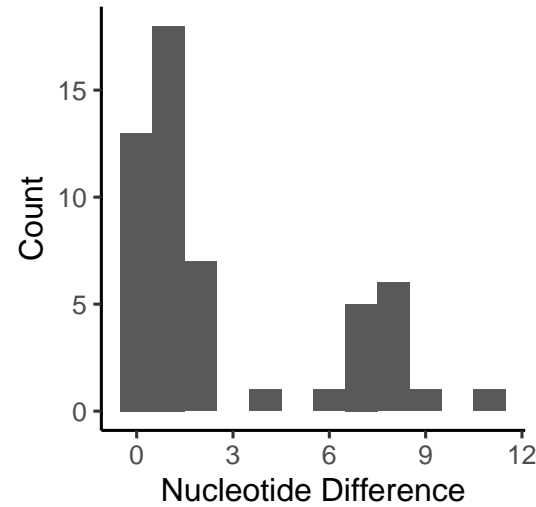
IGHV1-69-2*01

55 sequences assigned
7 (12.7%) exact matches, in which:
5 unique CDR3
2 unique J



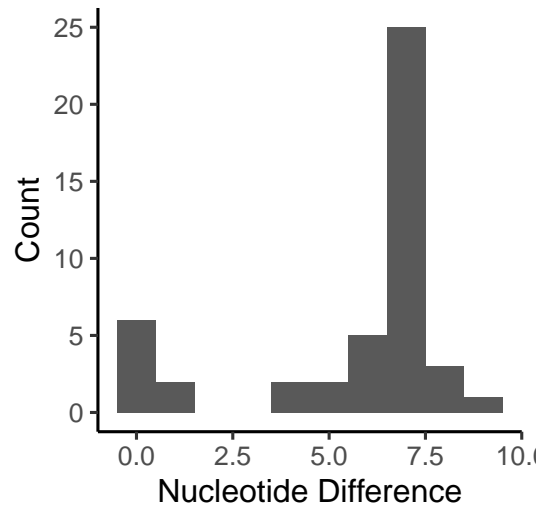
IGHV2-26*01

54 sequences assigned
13 (24.1%) exact matches, in which:
5 unique CDR3
3 unique J



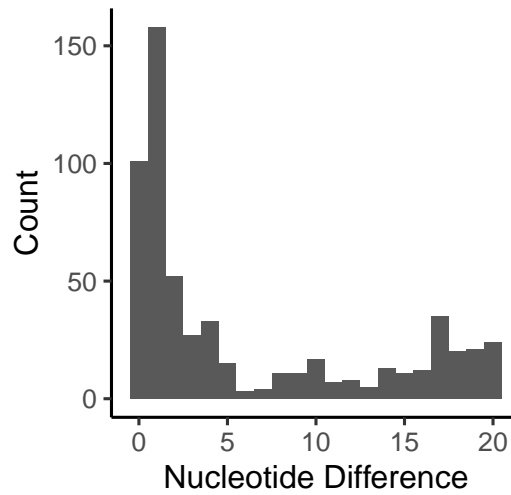
IGHV1-58*02

54 sequences assigned
6 (11.1%) exact matches, in which:
4 unique CDR3
1 unique J



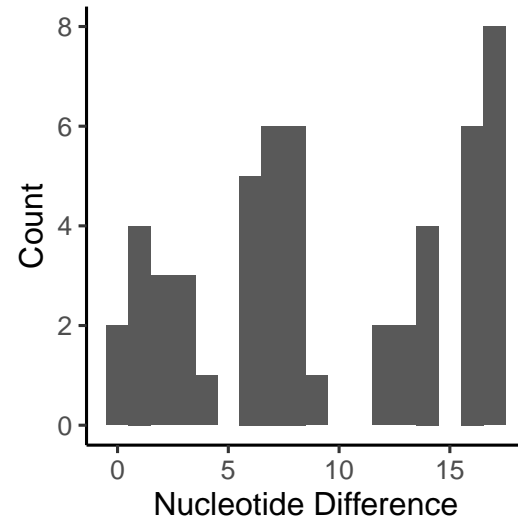
IGHV1-69*06

717 sequences assigned
101 (14.1%) exact matches, in which:
69 unique CDR3
5 unique J



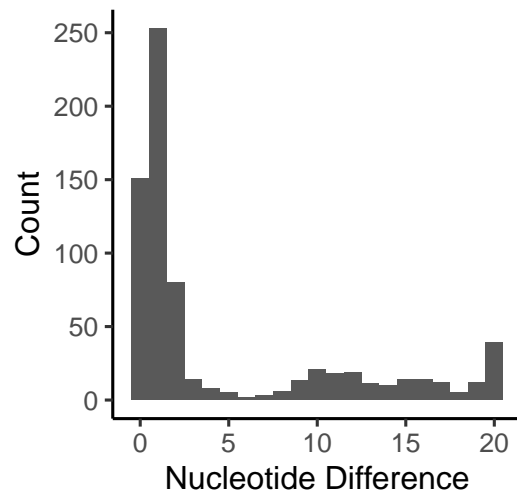
IGHV2-70*01

53 sequences assigned
2 (3.8%) exact matches, in which:
2 unique CDR3
1 unique J



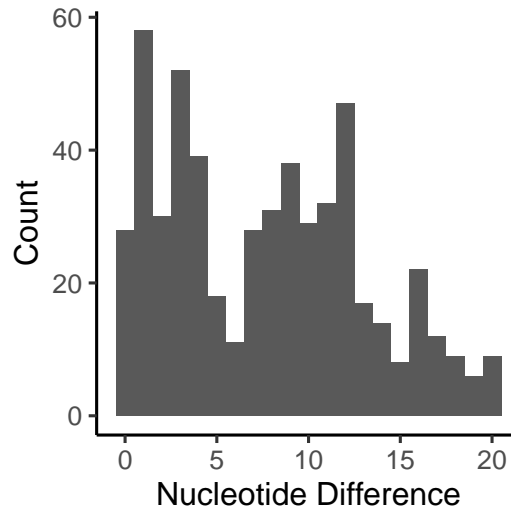
IGHV1-69*01

1079 sequences assigned
151 (14%) exact matches, in which:
112 unique CDR3
5 unique J



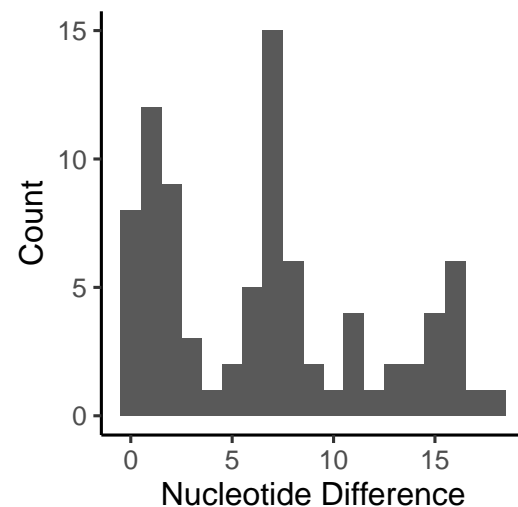
IGHV2-5*02

607 sequences assigned
28 (4.6%) exact matches, in which:
21 unique CDR3
5 unique J



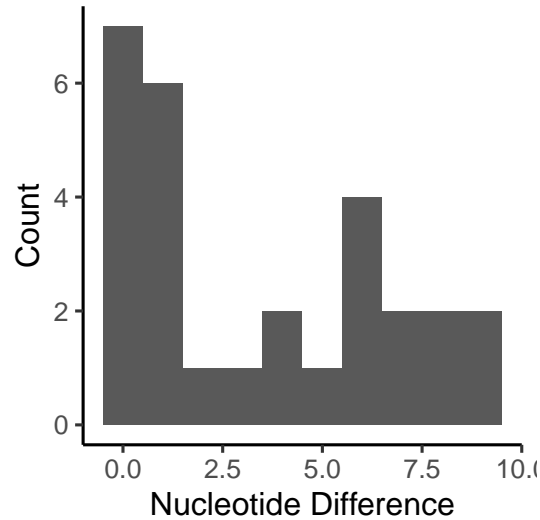
IGHV2-70*04

85 sequences assigned
8 (9.4%) exact matches, in which:
8 unique CDR3
3 unique J



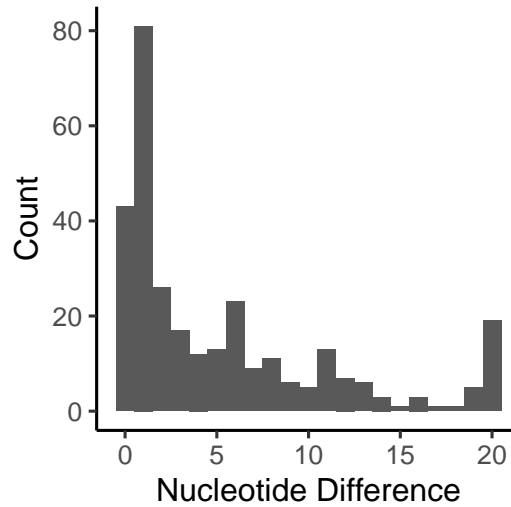
IGHV2-70*15

28 sequences assigned
7 (25%) exact matches, in which:
7 unique CDR3
2 unique J



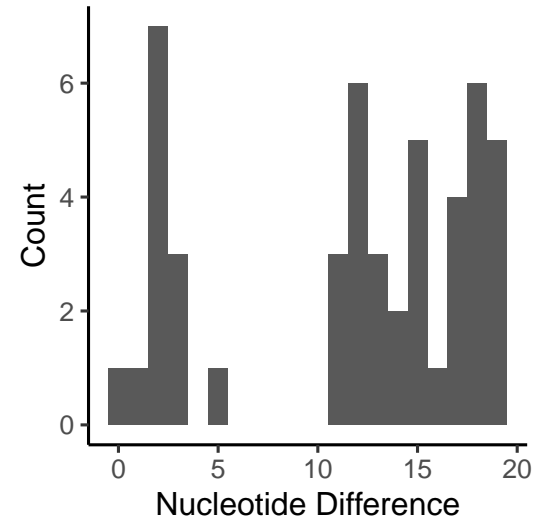
IGHV3-9*01

418 sequences assigned
43 (10.3%) exact matches, in which:
37 unique CDR3
6 unique J



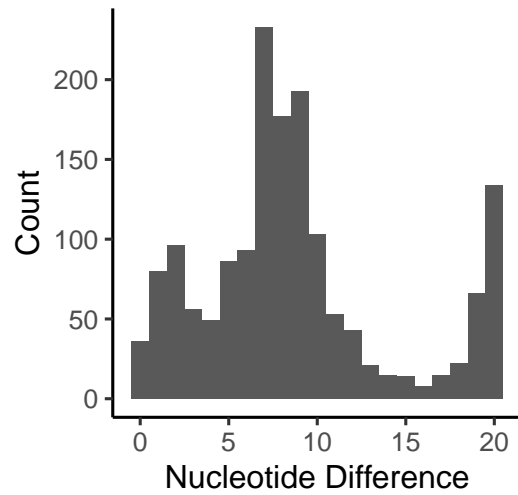
IGHV3-13*01

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



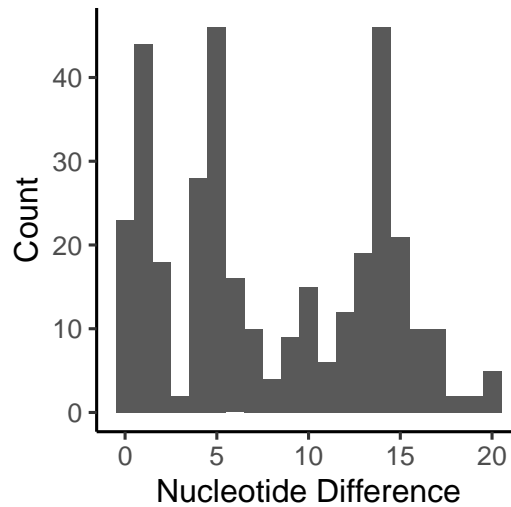
IGHV3-7*01

2039 sequences assigned
36 (1.8%) exact matches, in which:
32 unique CDR3
4 unique J



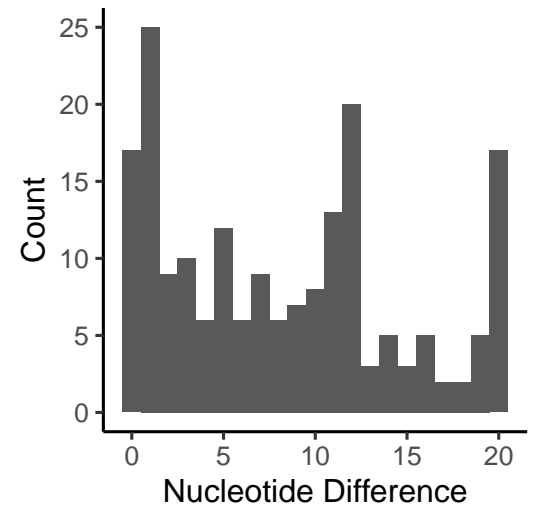
IGHV3-11*01

376 sequences assigned
23 (6.1%) exact matches, in which:
19 unique CDR3
3 unique J



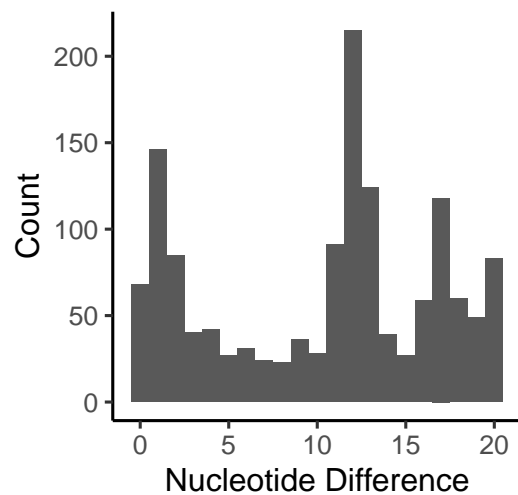
IGHV3-15*01

306 sequences assigned
17 (5.6%) exact matches, in which:
15 unique CDR3
3 unique J



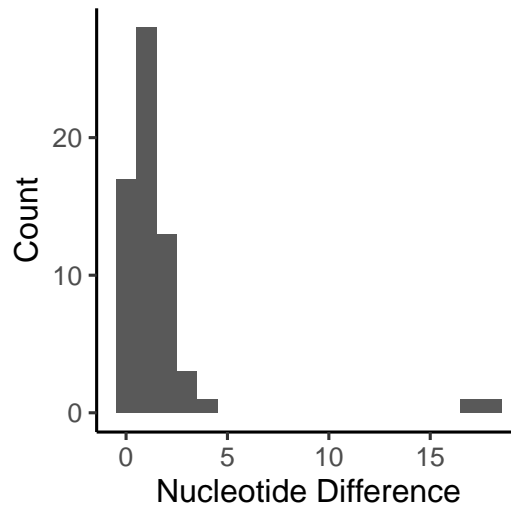
IGHV3-7*03

1597 sequences assigned
68 (4.3%) exact matches, in which:
47 unique CDR3
5 unique J



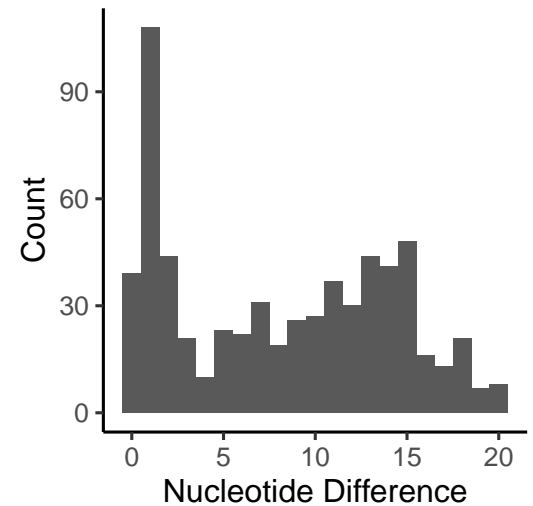
IGHV3-11*06

67 sequences assigned
17 (25.4%) exact matches, in which:
12 unique CDR3
3 unique J



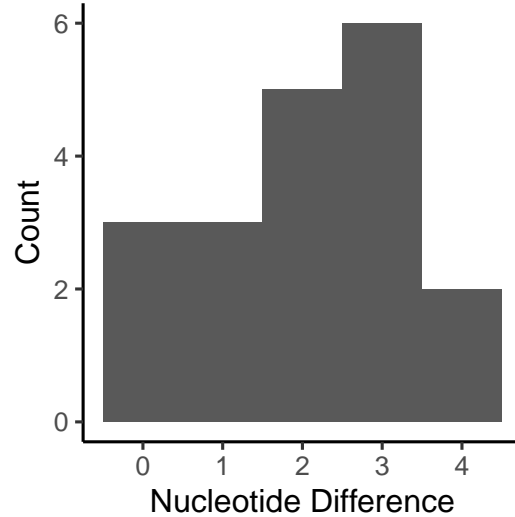
IGHV3-15*07

733 sequences assigned
39 (5.3%) exact matches, in which:
31 unique CDR3
6 unique J



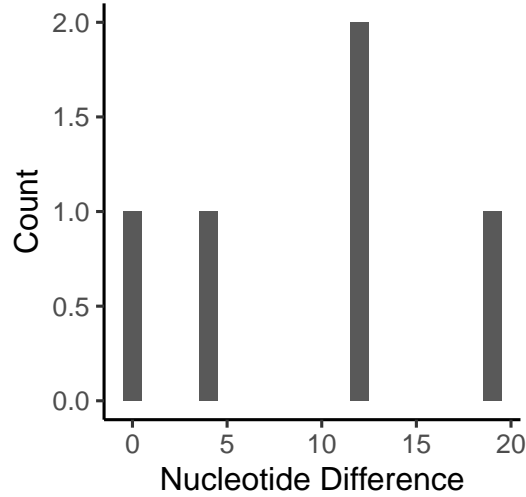
IGHV3-20*01

19 sequences assigned
3 (15.8%) exact matches, in which:
2 unique CDR3
2 unique J



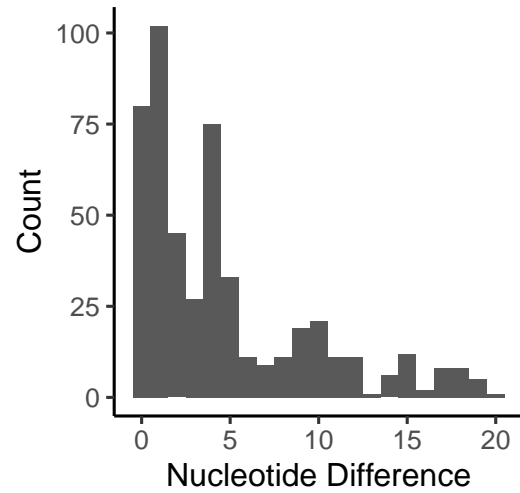
IGHV3-30-3*01

18 sequences assigned
1 (5.6%) exact matches, in which:
1 unique CDR3
1 unique J



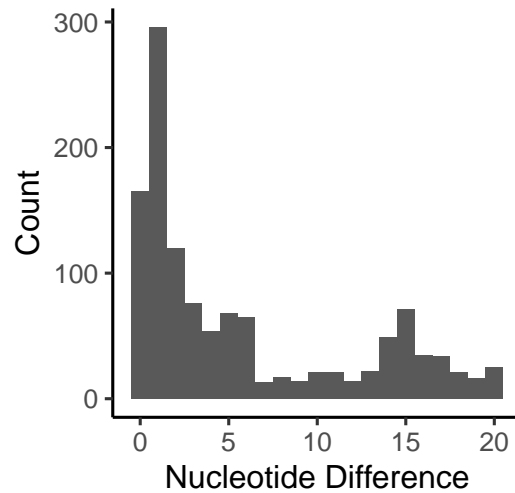
IGHV3-30*04

567 sequences assigned
80 (14.1%) exact matches, in which:
53 unique CDR3
4 unique J



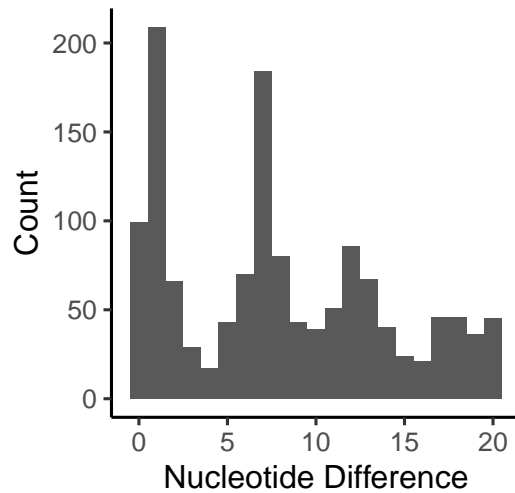
IGHV3-21*01

1264 sequences assigned
165 (13.1%) exact matches, in which:
97 unique CDR3
5 unique J



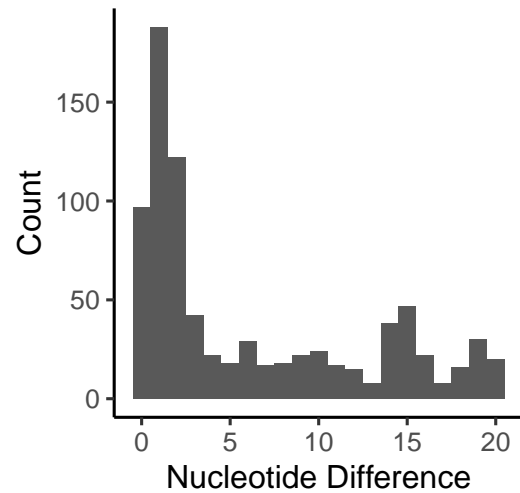
IGHV3-30*02

1651 sequences assigned
99 (6%) exact matches, in which:
66 unique CDR3
5 unique J



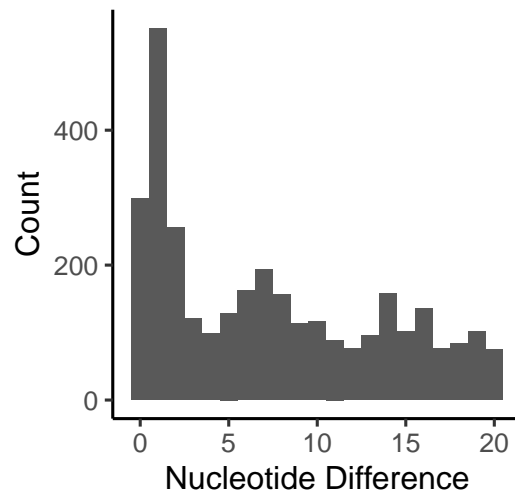
IGHV3-30*18

893 sequences assigned
97 (10.9%) exact matches, in which:
62 unique CDR3
5 unique J



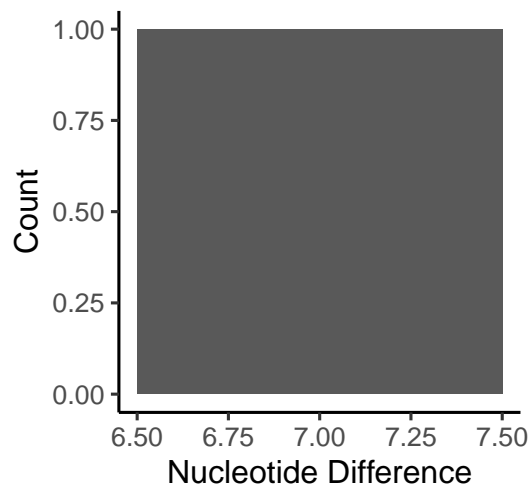
IGHV3-23*01

4087 sequences assigned
299 (7.3%) exact matches, in which:
237 unique CDR3
5 unique J



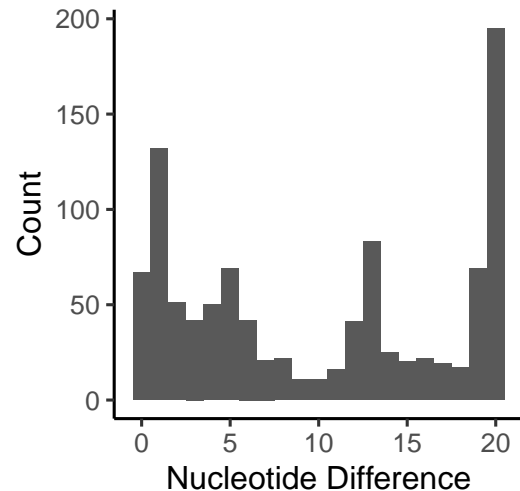
IGHV3-30-3*02

1 sequences assigned
No exact matches.



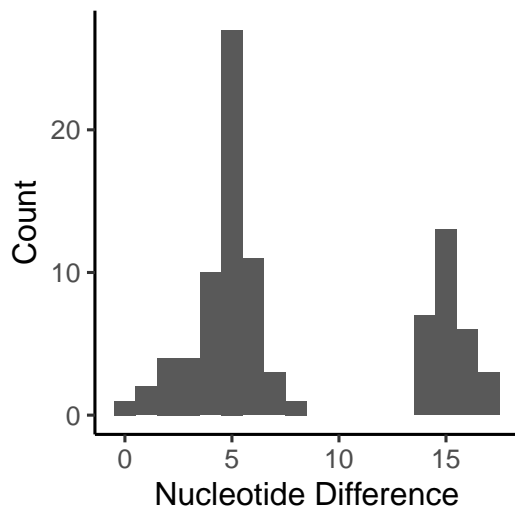
IGHV3-33*01

1202 sequences assigned
67 (5.6%) exact matches, in which:
48 unique CDR3
5 unique J



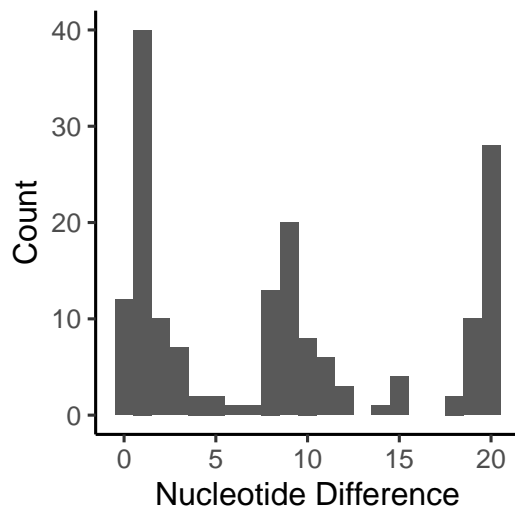
IGHV3-43*01

151 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



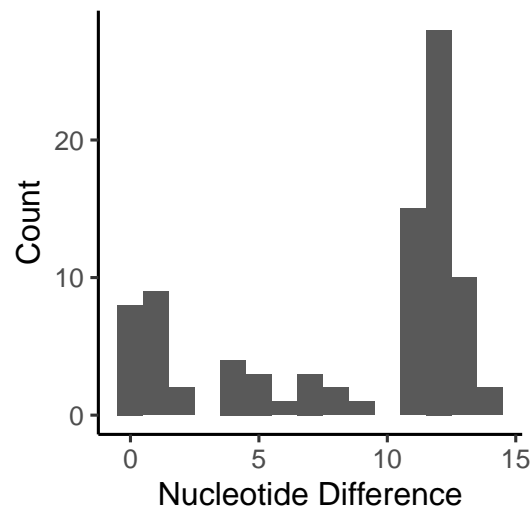
IGHV3-49*05

239 sequences assigned
12 (5%) exact matches, in which:
9 unique CDR3
2 unique J



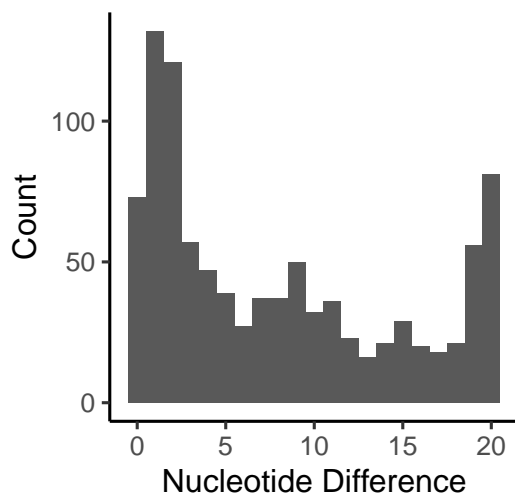
IGHV3-64*01

138 sequences assigned
8 (5.8%) exact matches, in which:
5 unique CDR3
3 unique J



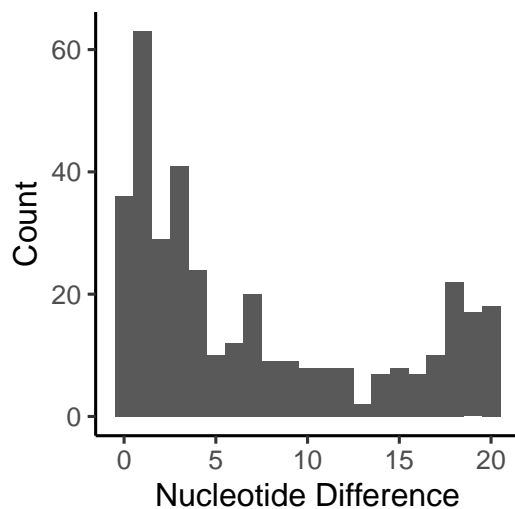
IGHV3-48*02

1114 sequences assigned
73 (6.6%) exact matches, in which:
56 unique CDR3
6 unique J



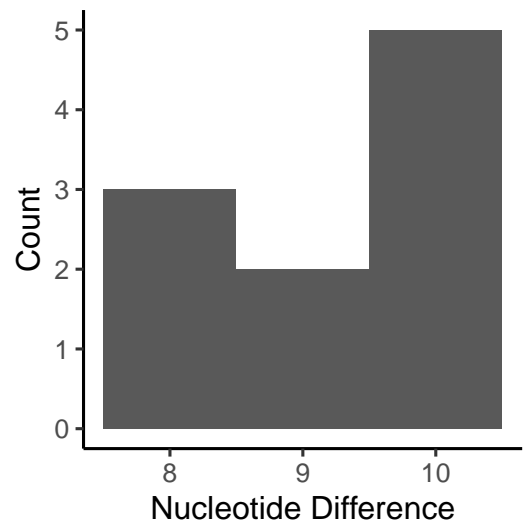
IGHV3-53*01

405 sequences assigned
36 (8.9%) exact matches, in which:
29 unique CDR3
4 unique J



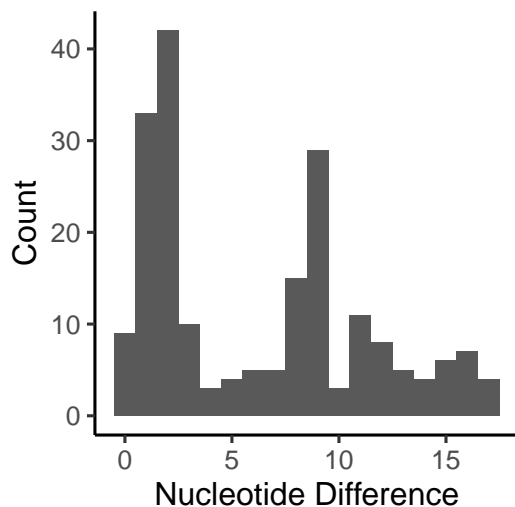
IGHV3-64*07

11 sequences assigned
No exact matches.



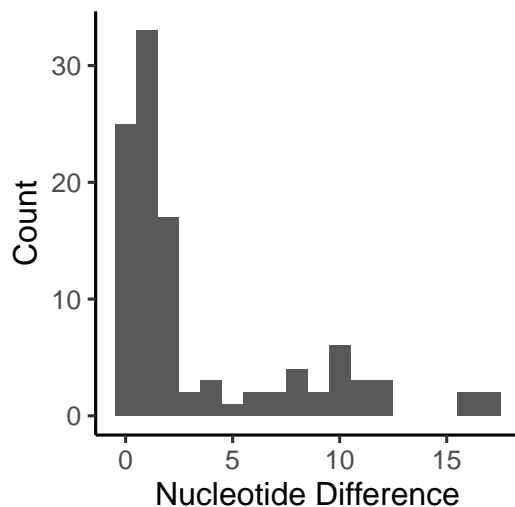
IGHV3-49*04

272 sequences assigned
9 (3.3%) exact matches, in which:
4 unique CDR3
3 unique J



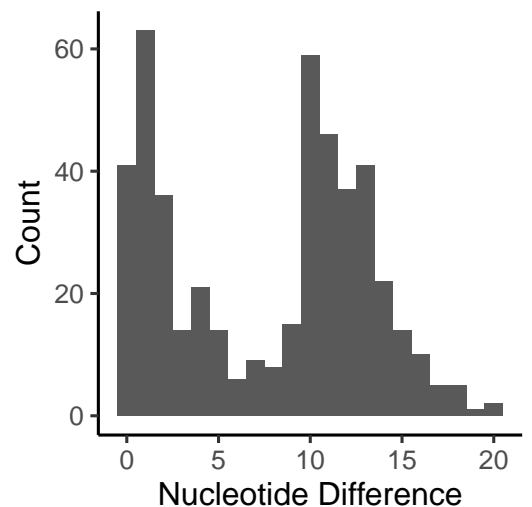
IGHV3-53*04

112 sequences assigned
25 (22.3%) exact matches, in which:
21 unique CDR3
4 unique J



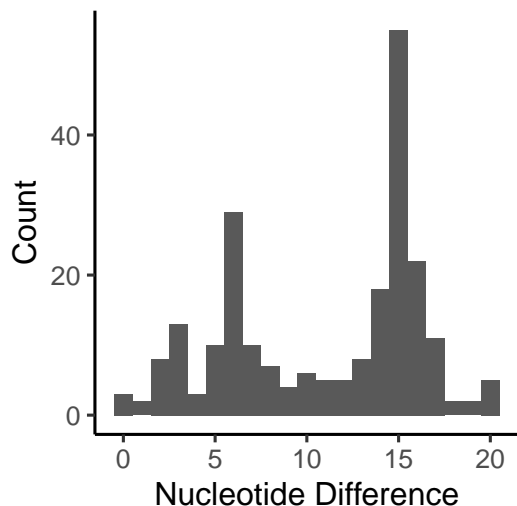
IGHV3-66*01

501 sequences assigned
41 (8.2%) exact matches, in which:
30 unique CDR3
5 unique J



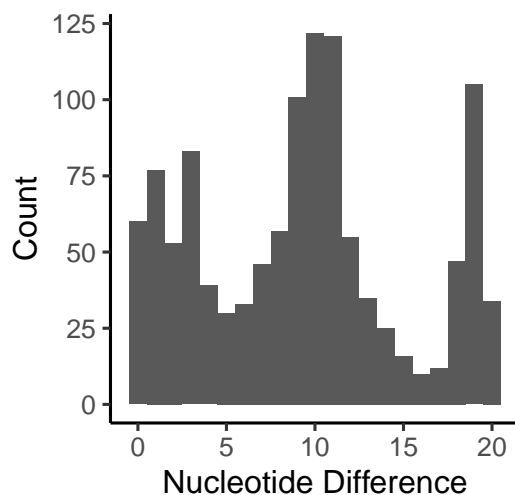
IGHV3-72*01

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



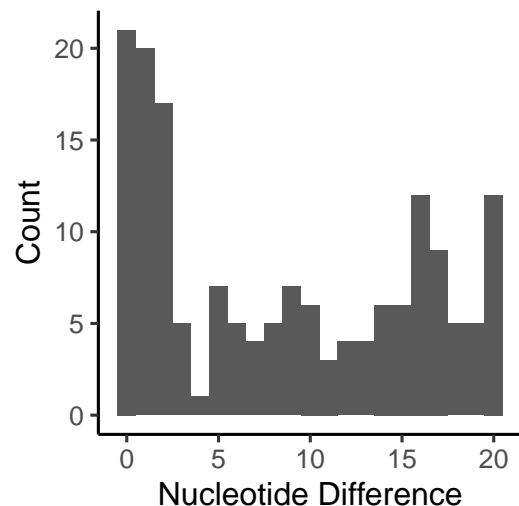
IGHV3-74*01

1260 sequences assigned
60 (4.8%) exact matches, in which:
53 unique CDR3
5 unique J



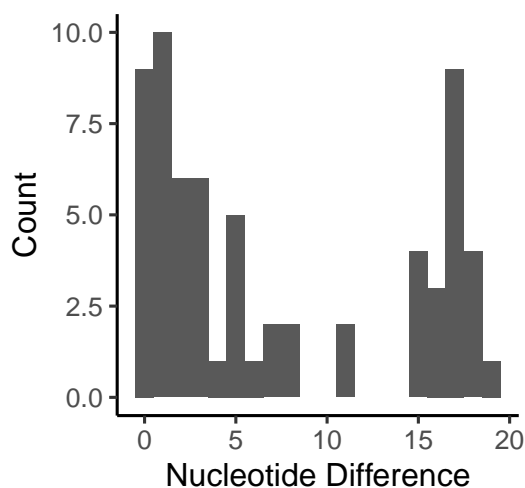
IGHV4-4*02

232 sequences assigned
21 (9.1%) exact matches, in which:
19 unique CDR3
5 unique J



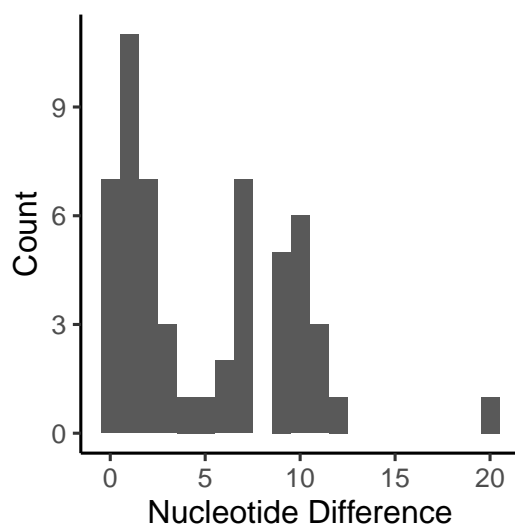
IGHV3-73*01

112 sequences assigned
9 (8%) exact matches, in which:
8 unique CDR3
3 unique J



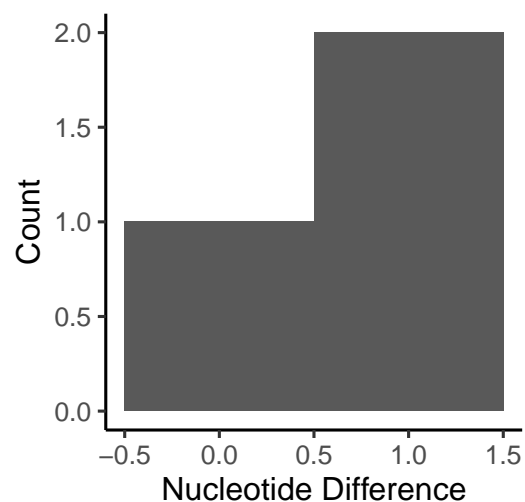
IGHV3-43D*03

56 sequences assigned
7 (12.5%) exact matches, in which:
5 unique CDR3
2 unique J



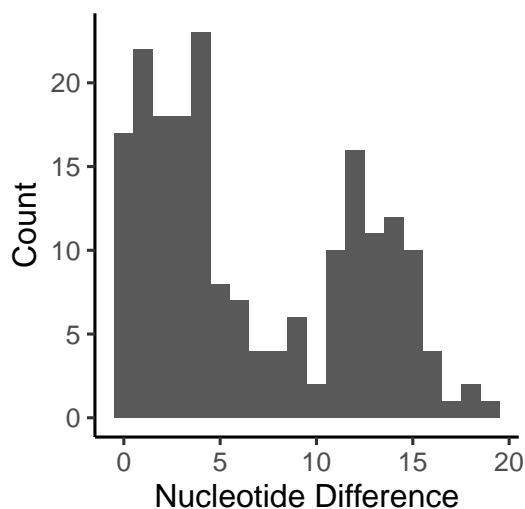
IGHV4-28*07

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



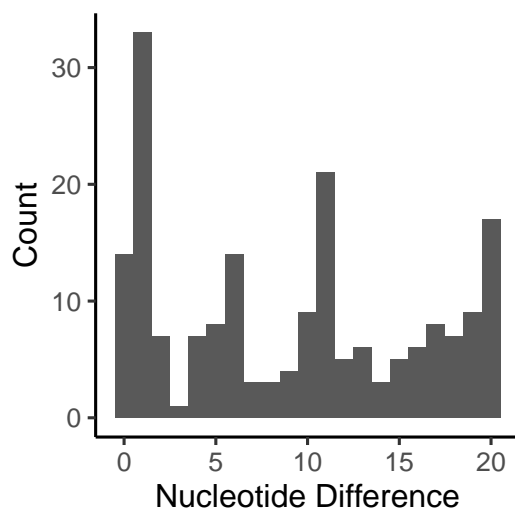
IGHV3-73*02

204 sequences assigned
17 (8.3%) exact matches, in which:
15 unique CDR3
4 unique J



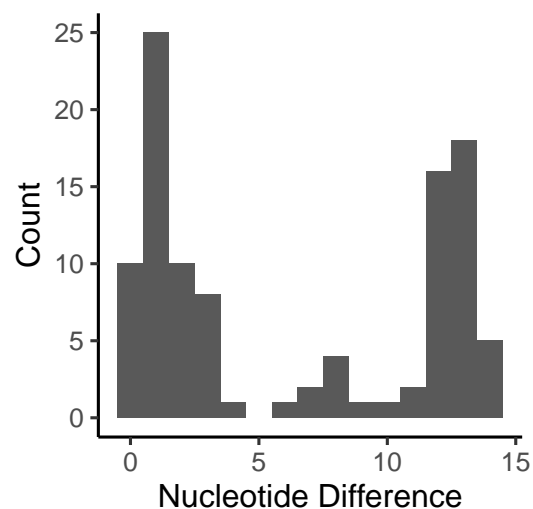
IGHV3-64D*06

277 sequences assigned
14 (5.1%) exact matches, in which:
12 unique CDR3
4 unique J



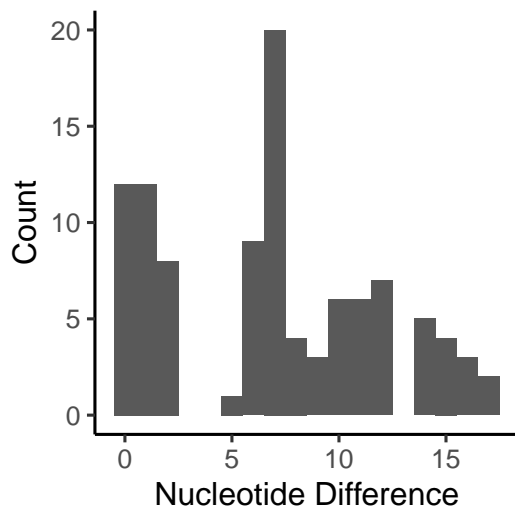
IGHV4-30-2*01

128 sequences assigned
10 (7.8%) exact matches, in which:
9 unique CDR3
4 unique J



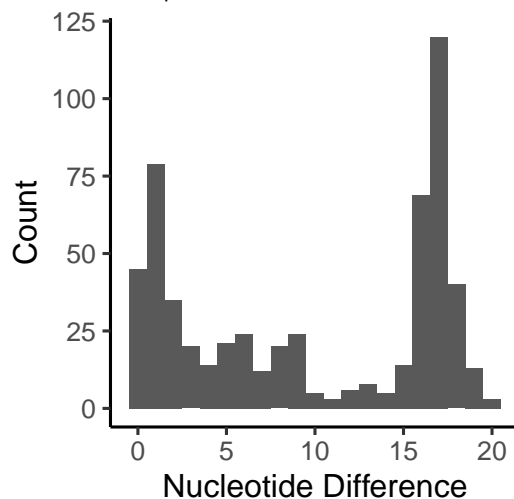
IGHV4-30-4*07

124 sequences assigned
12 (9.7%) exact matches, in which:
9 unique CDR3
4 unique J



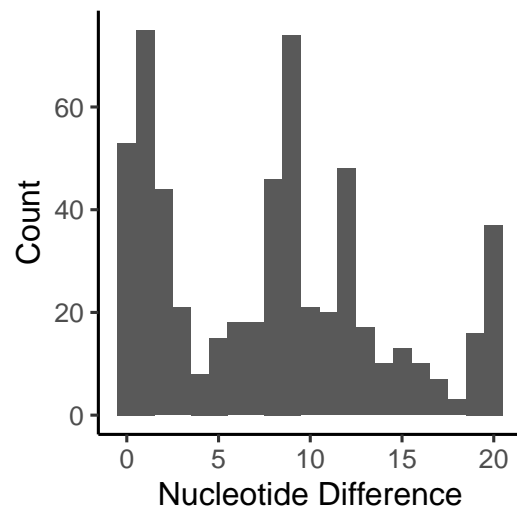
IGHV4-38-2*02

606 sequences assigned
45 (7.4%) exact matches, in which:
27 unique CDR3
5 unique J



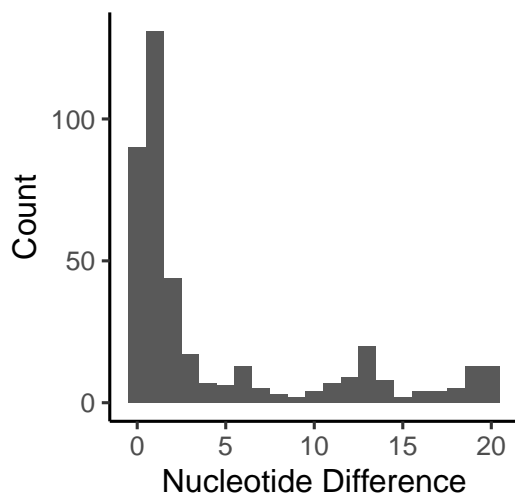
IGHV4-59*08

672 sequences assigned
53 (7.9%) exact matches, in which:
42 unique CDR3
6 unique J



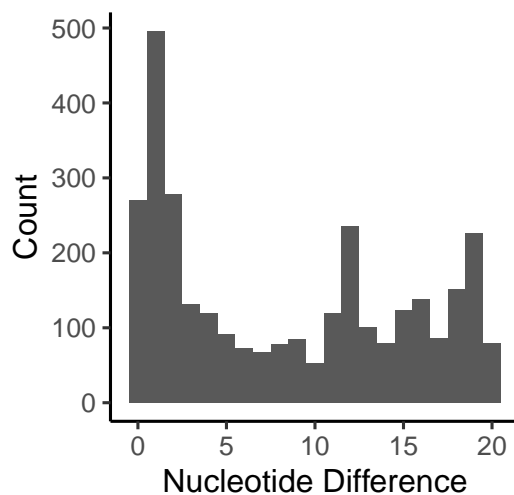
IGHV4-31*03

446 sequences assigned
90 (20.2%) exact matches, in which:
49 unique CDR3
4 unique J



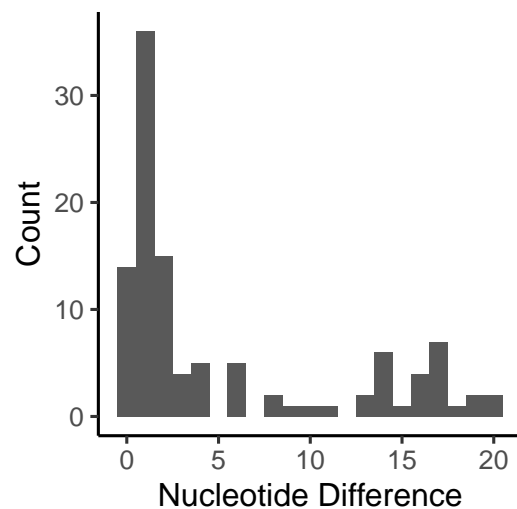
IGHV4-39*01

3634 sequences assigned
270 (7.4%) exact matches, in which:
201 unique CDR3
5 unique J



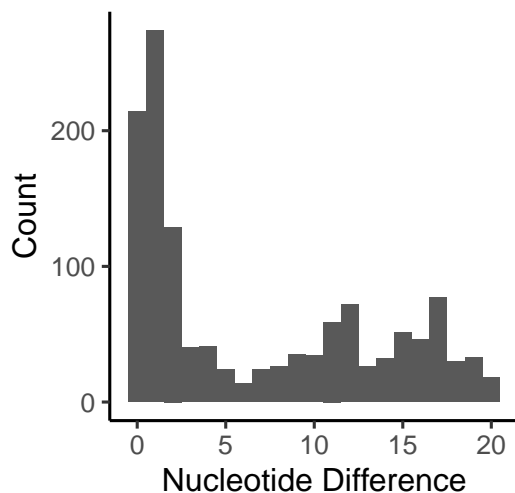
IGHV4-61*01

185 sequences assigned
14 (7.6%) exact matches, in which:
11 unique CDR3
3 unique J



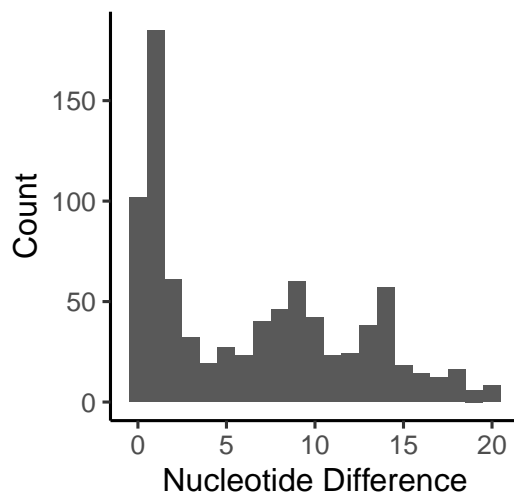
IGHV4-34*01

1459 sequences assigned
214 (14.7%) exact matches, in which:
158 unique CDR3
5 unique J



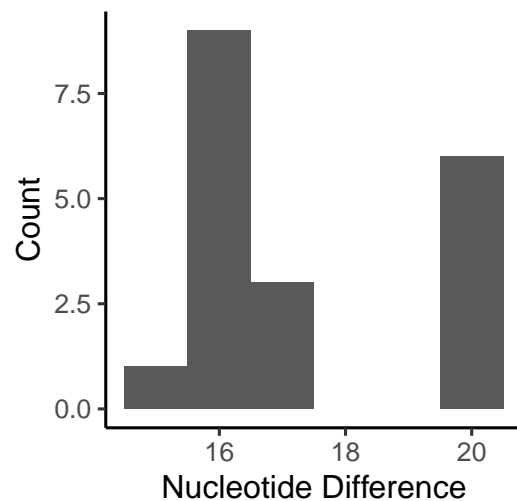
IGHV4-59*01

1027 sequences assigned
102 (9.9%) exact matches, in which:
74 unique CDR3
6 unique J



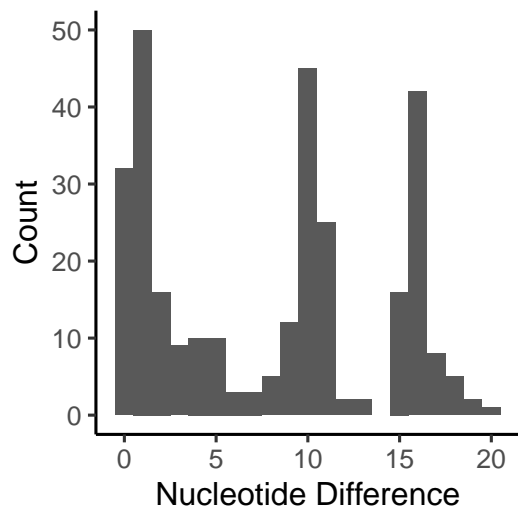
IGHV4-61*08

165 sequences assigned
No exact matches.



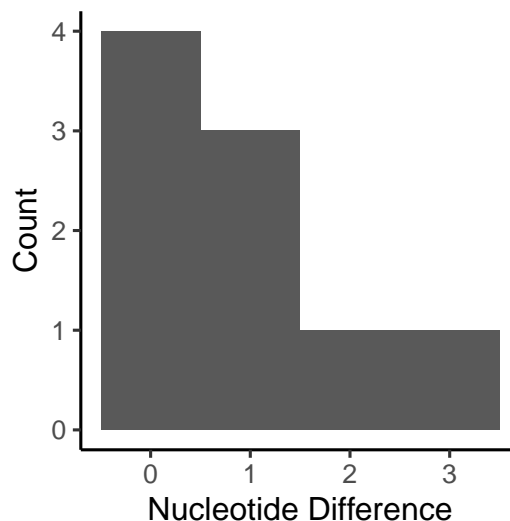
IGHV5-10-1*03

308 sequences assigned
32 (10.4%) exact matches, in which:
20 unique CDR3
4 unique J



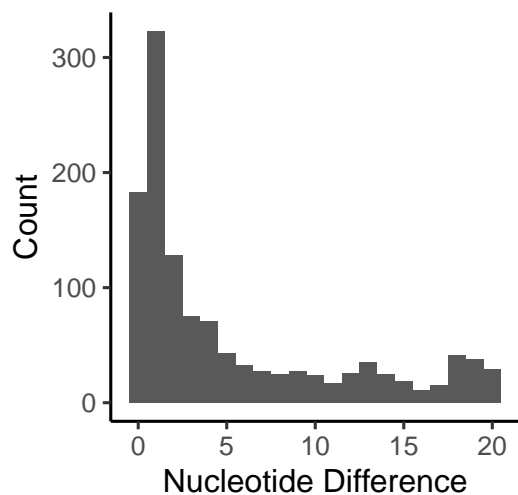
IGHV7-4-1*01

9 sequences assigned
4 (44.4%) exact matches, in which:
2 unique CDR3
1 unique J



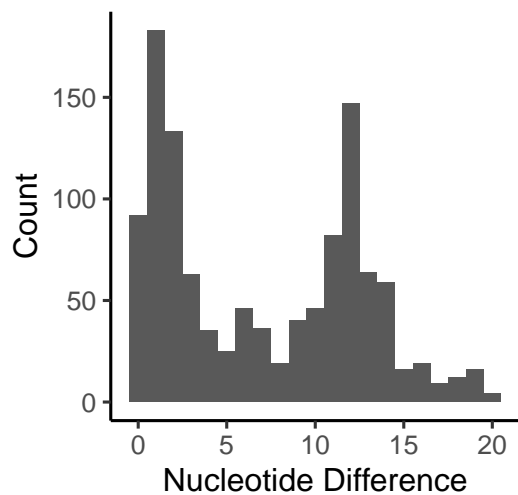
IGHV5-51*01

1413 sequences assigned
183 (13%) exact matches, in which:
129 unique CDR3
6 unique J



IGHV6-1*01

1179 sequences assigned
92 (7.8%) exact matches, in which:
57 unique CDR3
4 unique J





Warning – no inferred sequences found.