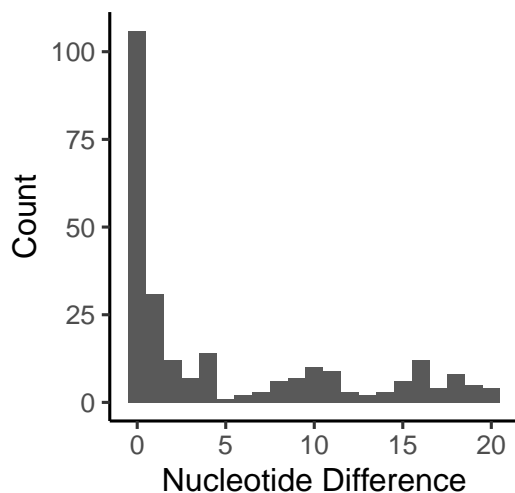


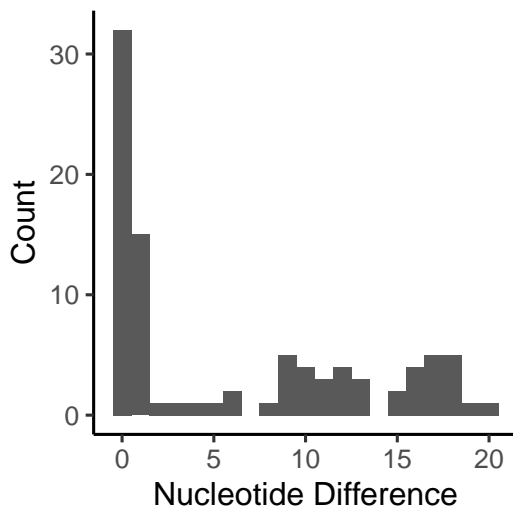
IGHV1-2*04

323 sequences assigned
106 (32.8%) exact matches, in which:
102 unique CDR3
5 unique J



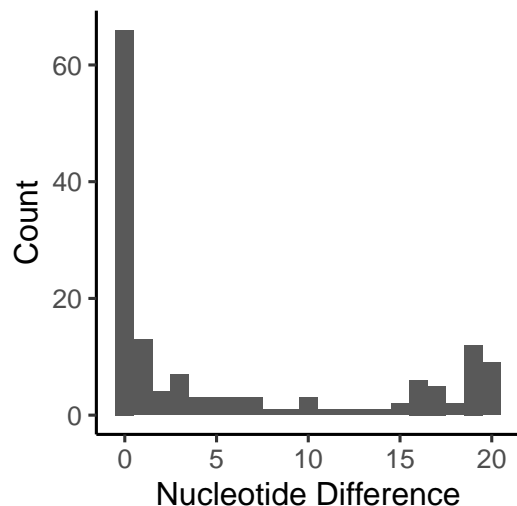
IGHV1-24*01

121 sequences assigned
32 (26.4%) exact matches, in which:
32 unique CDR3
5 unique J



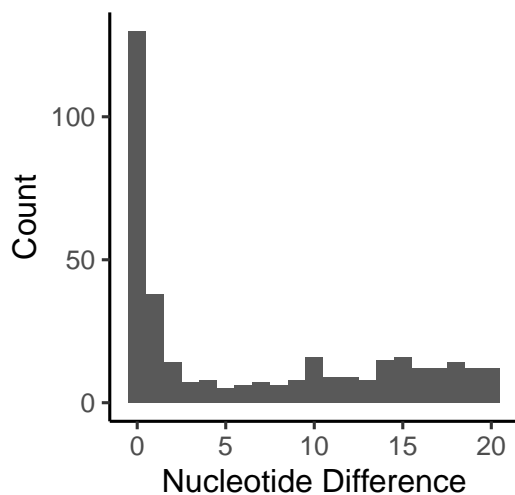
IGHV1-46*03

205 sequences assigned
66 (32.2%) exact matches, in which:
64 unique CDR3
5 unique J



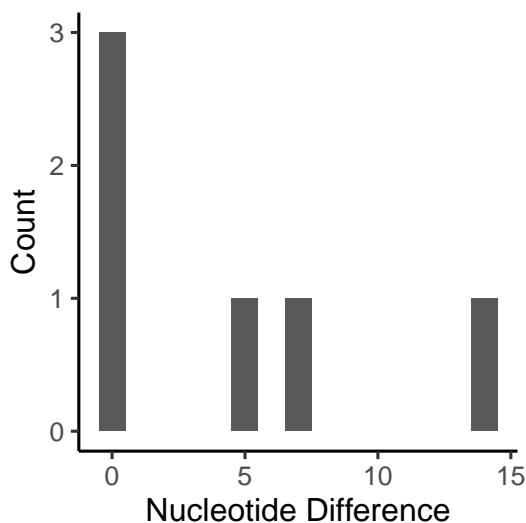
IGHV1-3*01

574 sequences assigned
130 (22.6%) exact matches, in which:
129 unique CDR3
6 unique J



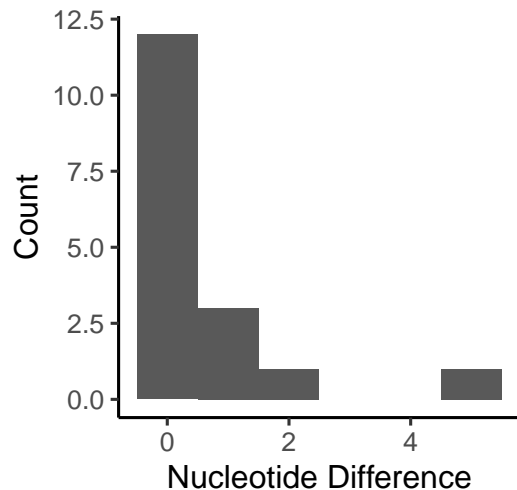
IGHV1-45*02

7 sequences assigned
3 (42.9%) exact matches, in which:
3 unique CDR3
1 unique J



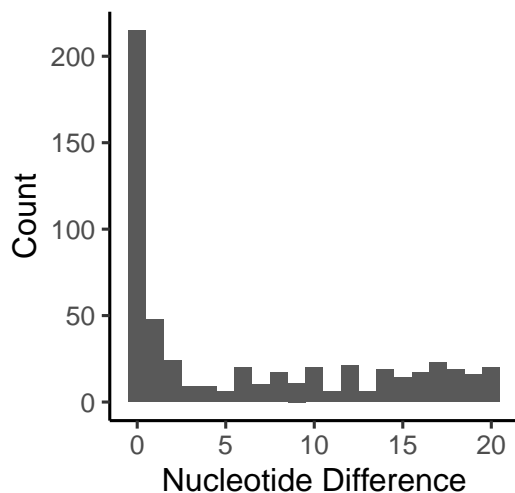
IGHV1-58*01

29 sequences assigned
12 (41.4%) exact matches, in which:
12 unique CDR3
3 unique J



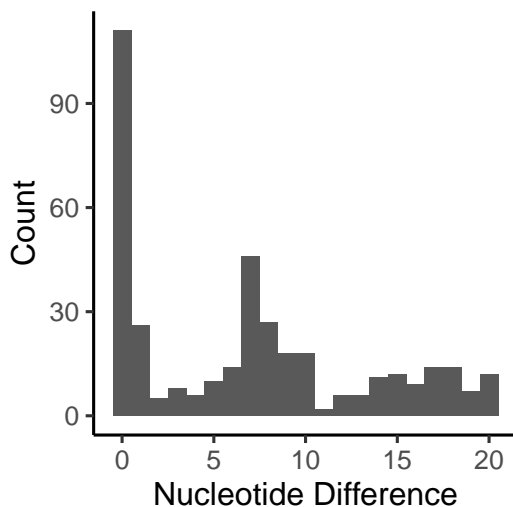
IGHV1-18*04

771 sequences assigned
215 (27.9%) exact matches, in which:
214 unique CDR3
5 unique J



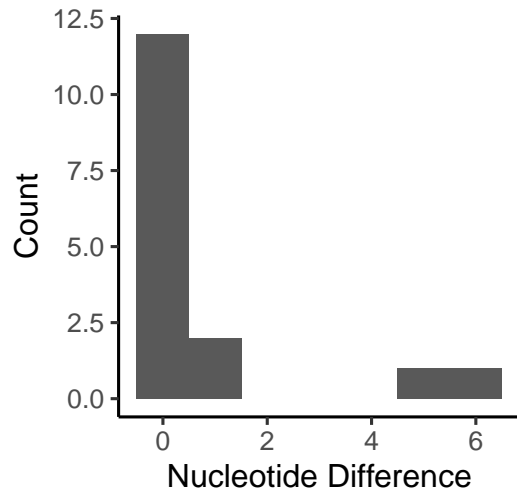
IGHV1-46*01

504 sequences assigned
111 (22%) exact matches, in which:
108 unique CDR3
5 unique J



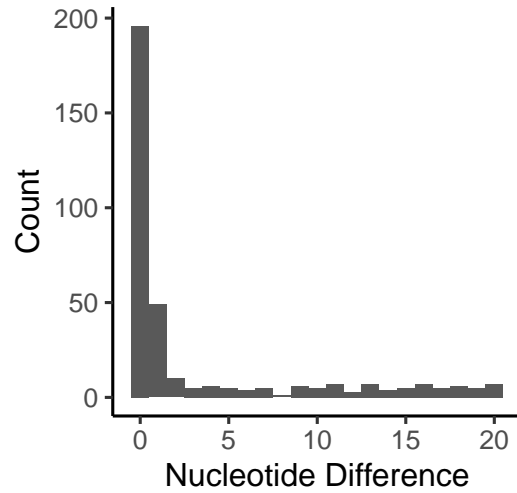
IGHV1-58*02

18 sequences assigned
12 (66.7%) exact matches, in which:
12 unique CDR3
5 unique J



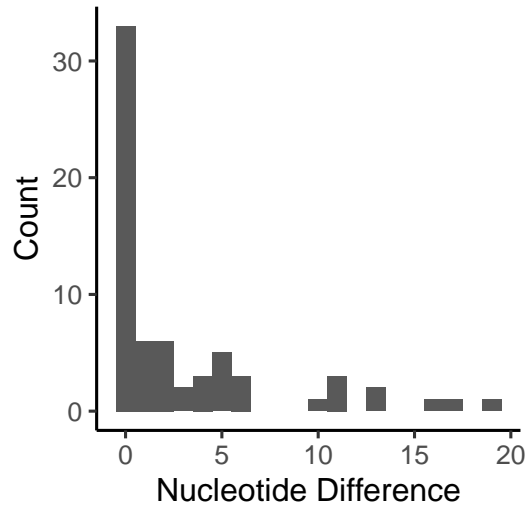
IGHV1-69*04

420 sequences assigned
196 (46.7%) exact matches, in which:
195 unique CDR3
6 unique J



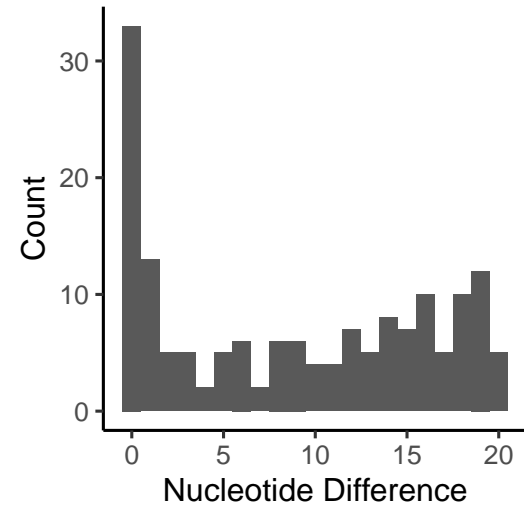
IGHV2-70*01

84 sequences assigned
33 (39.3%) exact matches, in which:
33 unique CDR3
4 unique J



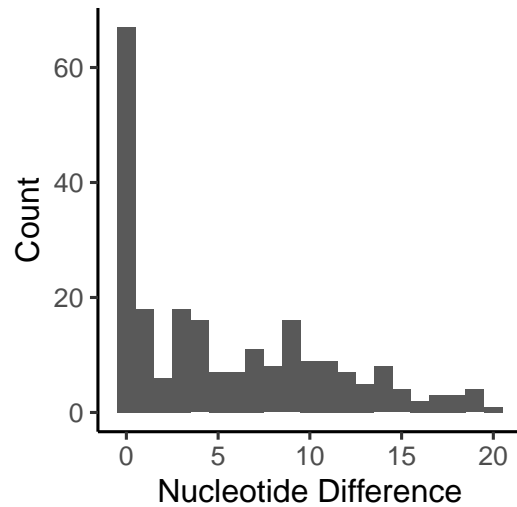
IGHV3-7*05

197 sequences assigned
33 (16.8%) exact matches, in which:
29 unique CDR3
4 unique J



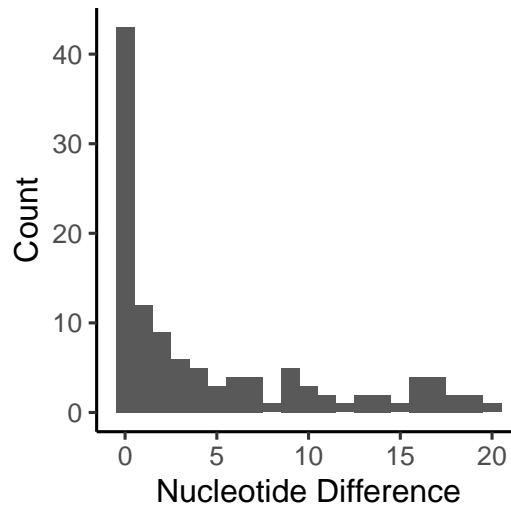
IGHV2-5*01

259 sequences assigned
67 (25.9%) exact matches, in which:
67 unique CDR3
5 unique J



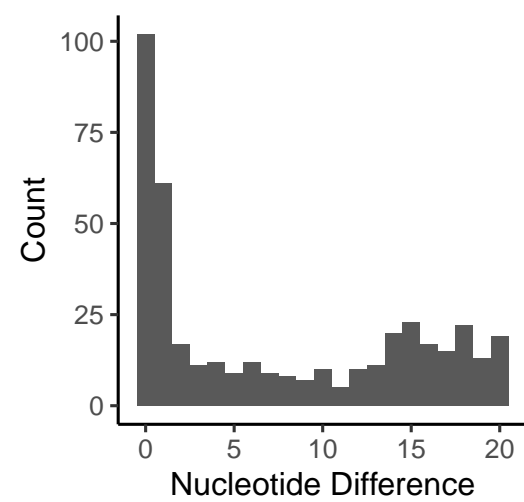
IGHV2-70*15

122 sequences assigned
43 (35.2%) exact matches, in which:
43 unique CDR3
4 unique J



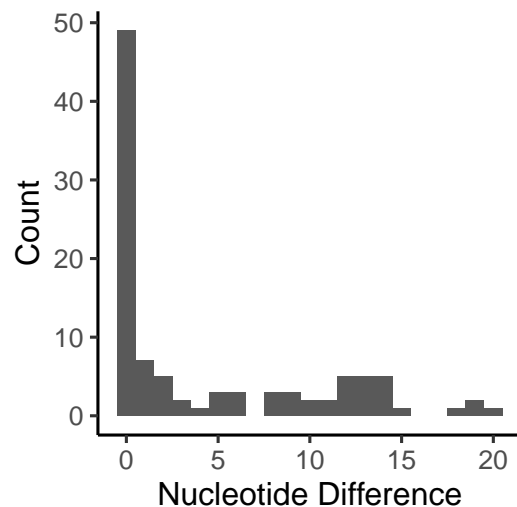
IGHV3-11*06

535 sequences assigned
102 (19.1%) exact matches, in which:
96 unique CDR3
5 unique J



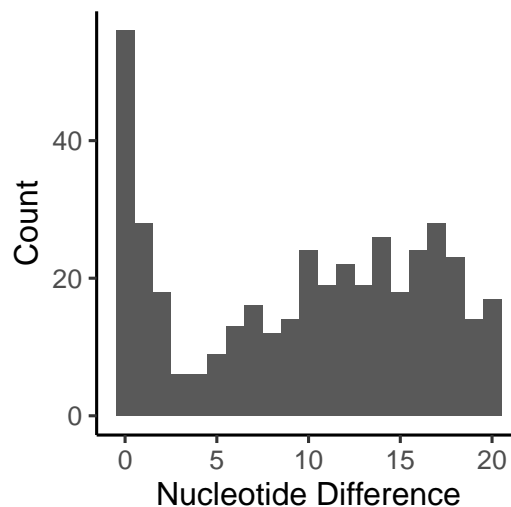
IGHV2-26*01

105 sequences assigned
49 (46.7%) exact matches, in which:
49 unique CDR3
5 unique J



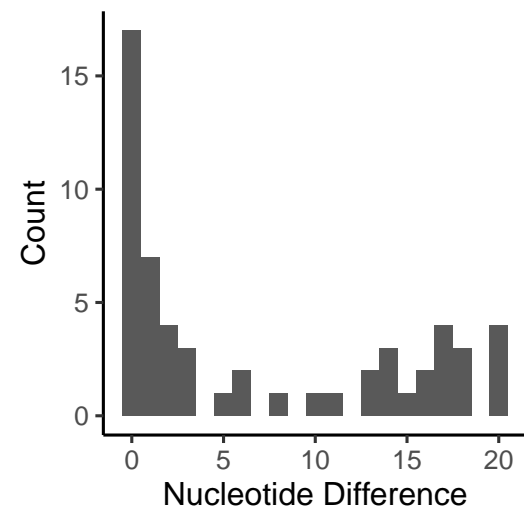
IGHV3-7*03

516 sequences assigned
56 (10.9%) exact matches, in which:
55 unique CDR3
4 unique J



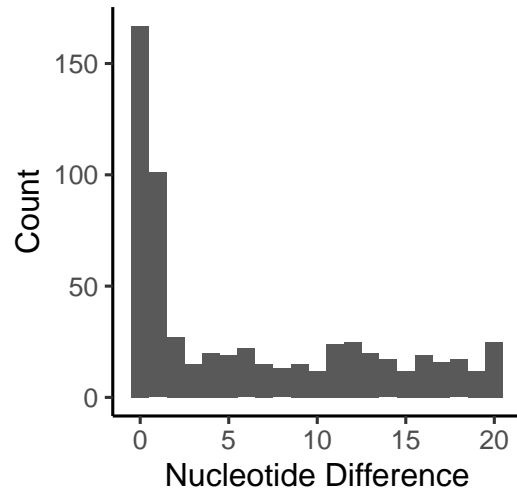
IGHV3-13*05

63 sequences assigned
17 (27%) exact matches, in which:
17 unique CDR3
5 unique J



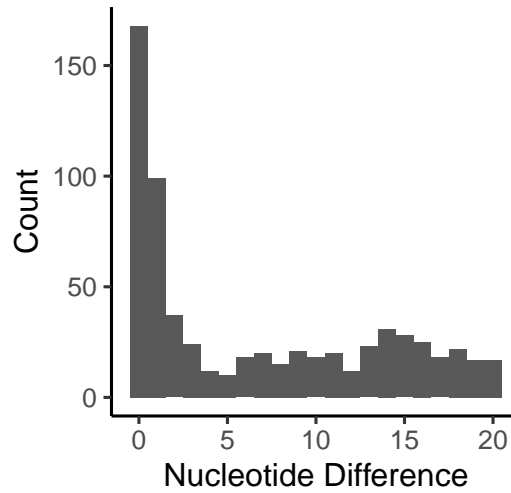
IGHV3-15*01

888 sequences assigned
167 (18.8%) exact matches, in which:
158 unique CDR3
5 unique J



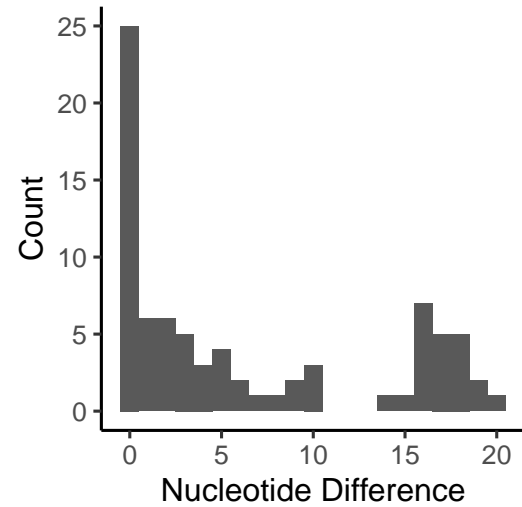
IGHV3-30-3*01

901 sequences assigned
168 (18.6%) exact matches, in which:
164 unique CDR3
6 unique J



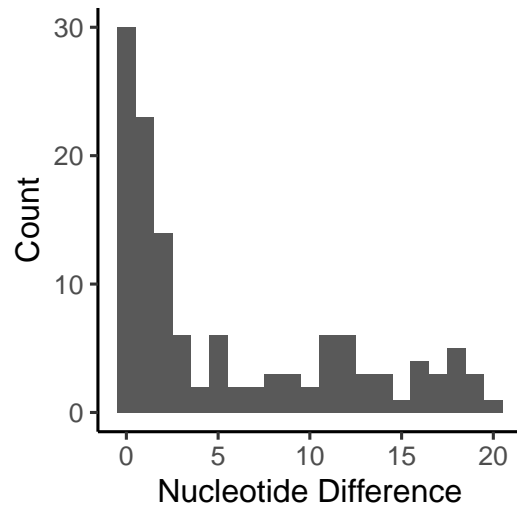
IGHV3-43*01

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



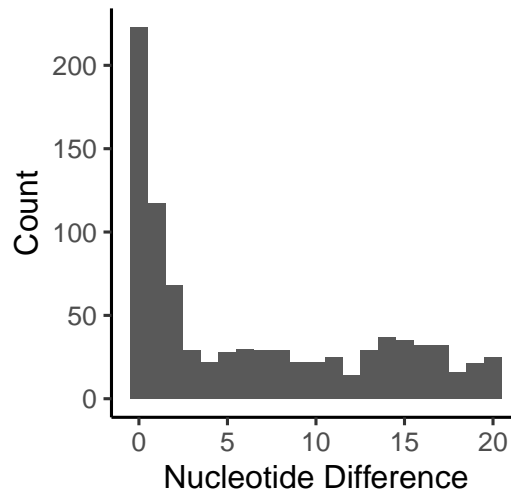
IGHV3-20*04

156 sequences assigned
30 (19.2%) exact matches, in which:
28 unique CDR3
4 unique J



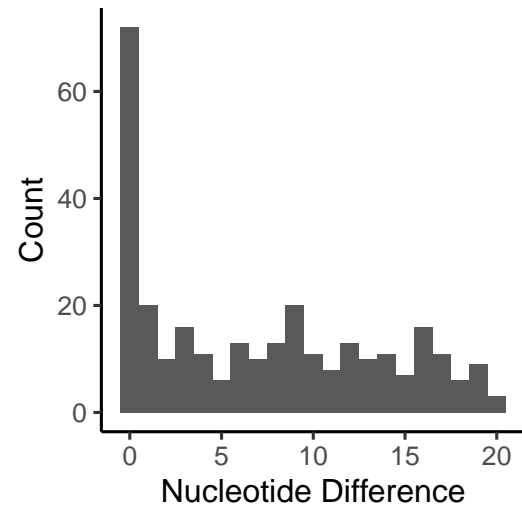
IGHV3-33*01

1238 sequences assigned
223 (18%) exact matches, in which:
219 unique CDR3
6 unique J



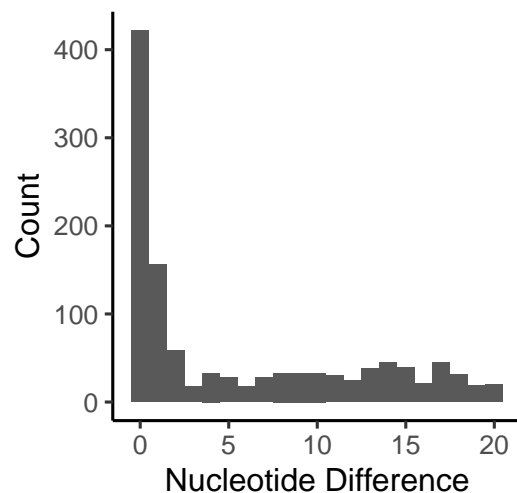
IGHV3-48*01

362 sequences assigned
72 (19.9%) exact matches, in which:
71 unique CDR3
6 unique J



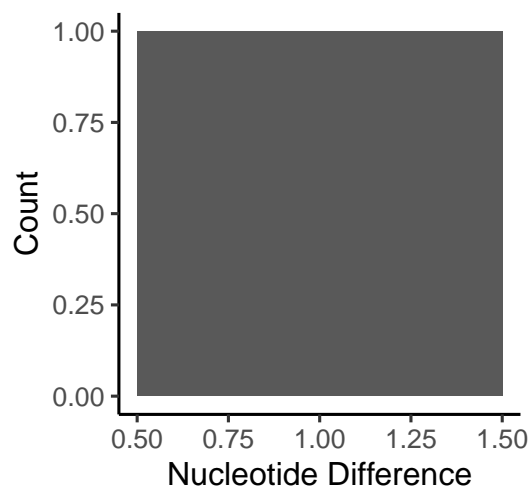
IGHV3-21*01

1497 sequences assigned
422 (28.2%) exact matches, in which:
401 unique CDR3
6 unique J



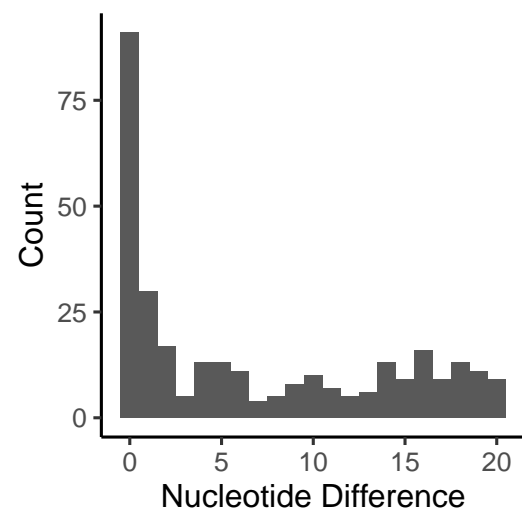
IGHV3-35*01

1 sequences assigned
No exact matches.



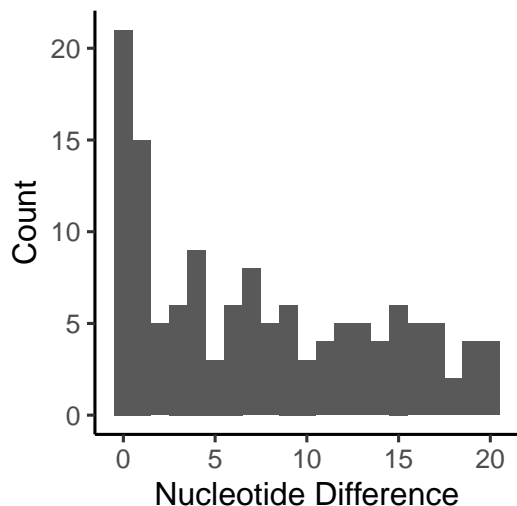
IGHV3-48*02

422 sequences assigned
91 (21.6%) exact matches, in which:
84 unique CDR3
5 unique J



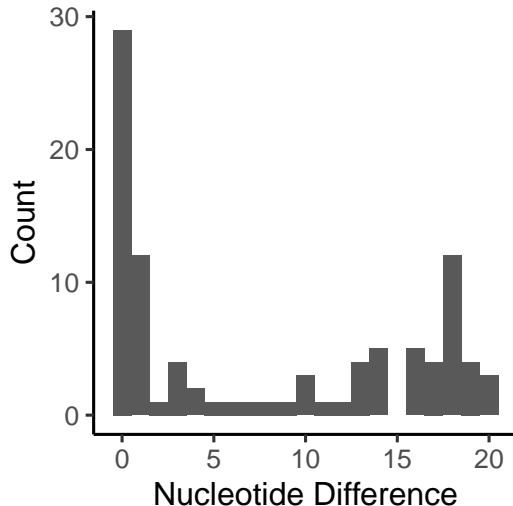
IGHV3-49*03

177 sequences assigned
21 (11.9%) exact matches, in which:
21 unique CDR3
5 unique J



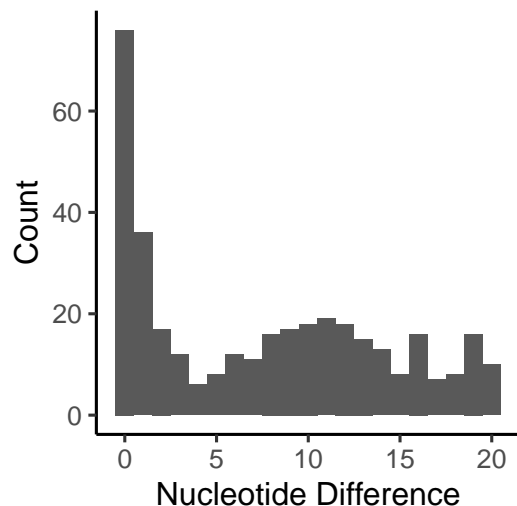
IGHV3-53*02

110 sequences assigned
29 (26.4%) exact matches, in which:
28 unique CDR3
3 unique J



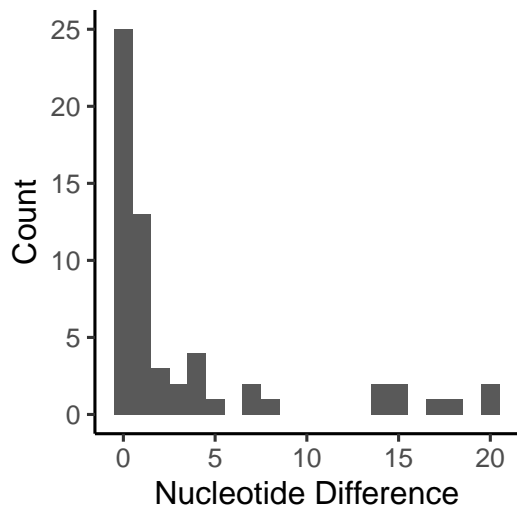
IGHV3-66*01

461 sequences assigned
76 (16.5%) exact matches, in which:
72 unique CDR3
5 unique J



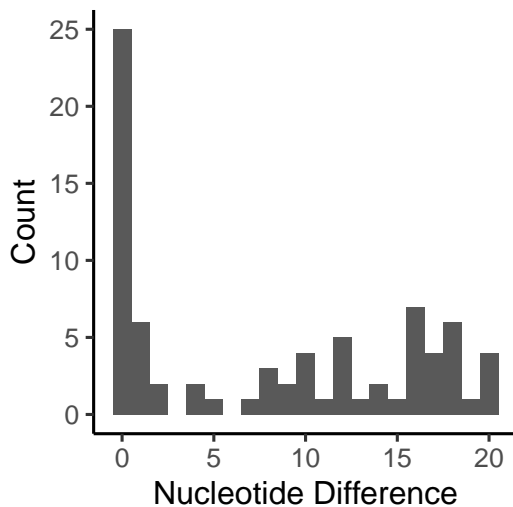
IGHV3-49*05

74 sequences assigned
25 (33.8%) exact matches, in which:
25 unique CDR3
5 unique J



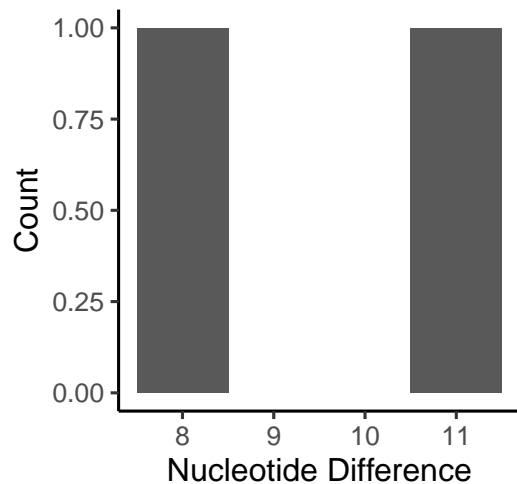
IGHV3-64*01

109 sequences assigned
25 (22.9%) exact matches, in which:
23 unique CDR3
5 unique J



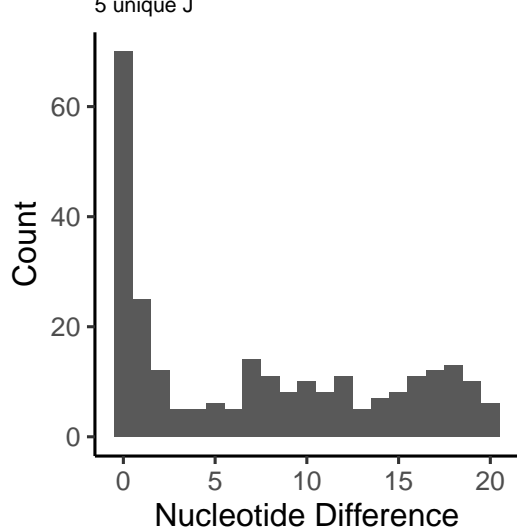
IGHV3-69-1*02

2 sequences assigned
No exact matches.



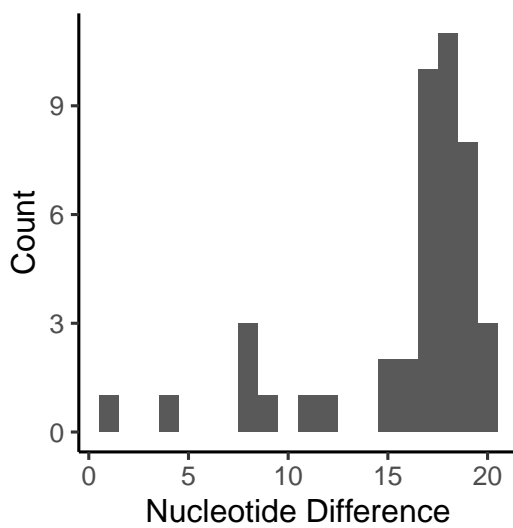
IGHV3-53*01

322 sequences assigned
70 (21.7%) exact matches, in which:
64 unique CDR3
5 unique J



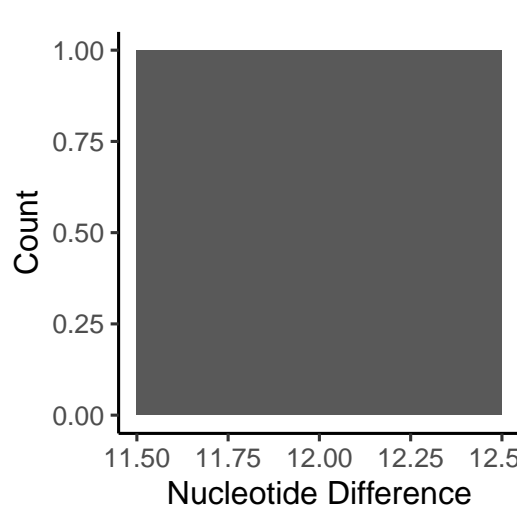
IGHV3-64*07

48 sequences assigned
No exact matches.



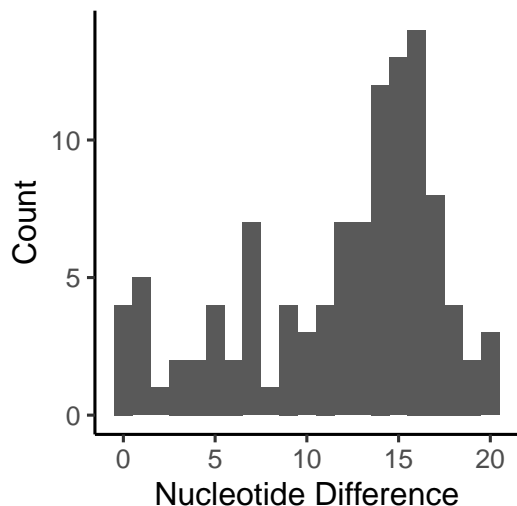
IGHV3-71*03

1 sequences assigned
No exact matches.



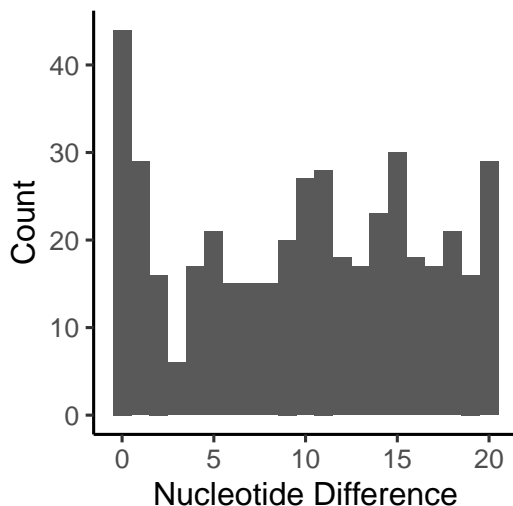
IGHV3-72*01

152 sequences assigned
4 (2.6%) exact matches, in which:
4 unique CDR3
3 unique J



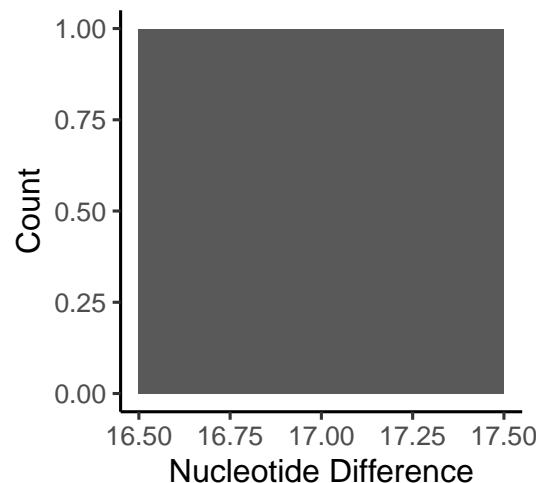
IGHV3-74*01

614 sequences assigned
44 (7.2%) exact matches, in which:
41 unique CDR3
6 unique J



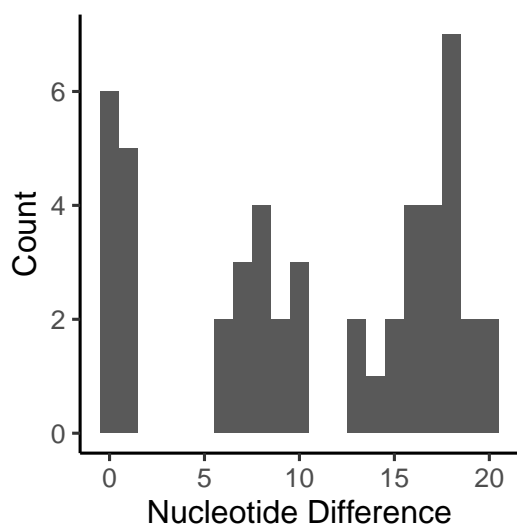
IGHV3-NL1*01

1 sequences assigned
No exact matches.



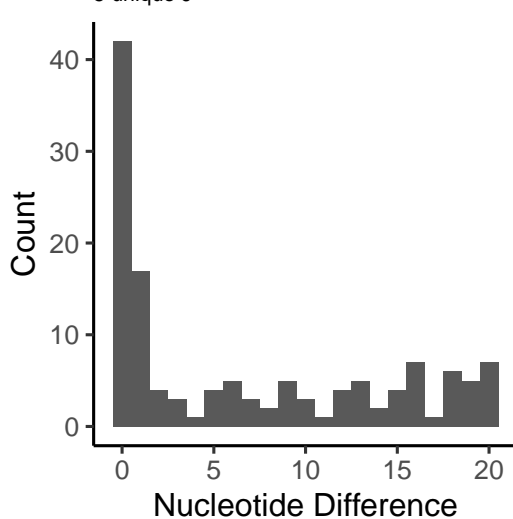
IGHV3-73*01

74 sequences assigned
6 (8.1%) exact matches, in which:
5 unique CDR3
2 unique J



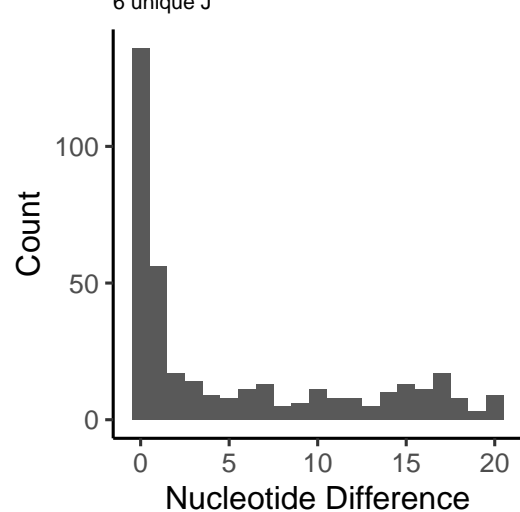
IGHV3-64D*08

167 sequences assigned
42 (25.1%) exact matches, in which:
40 unique CDR3
5 unique J



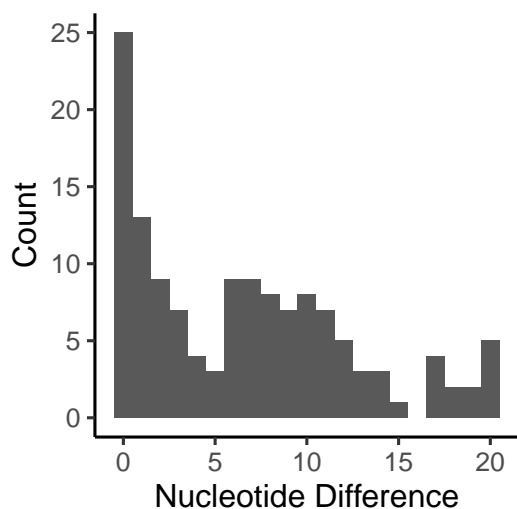
IGHV4-4*02

468 sequences assigned
136 (29.1%) exact matches, in which:
132 unique CDR3
6 unique J



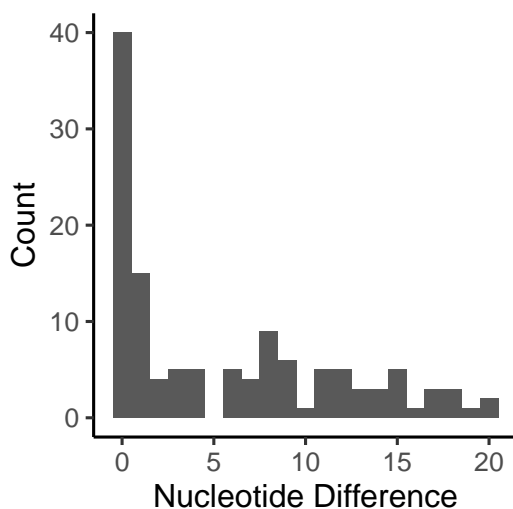
IGHV3-73*02

145 sequences assigned
25 (17.2%) exact matches, in which:
23 unique CDR3
4 unique J



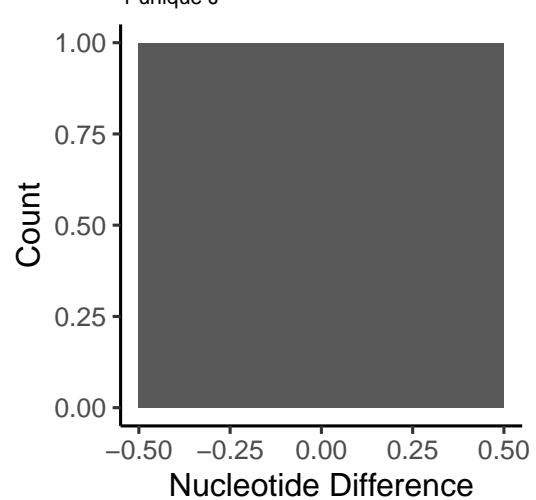
IGHV3-64D*09

153 sequences assigned
40 (26.1%) exact matches, in which:
37 unique CDR3
5 unique J



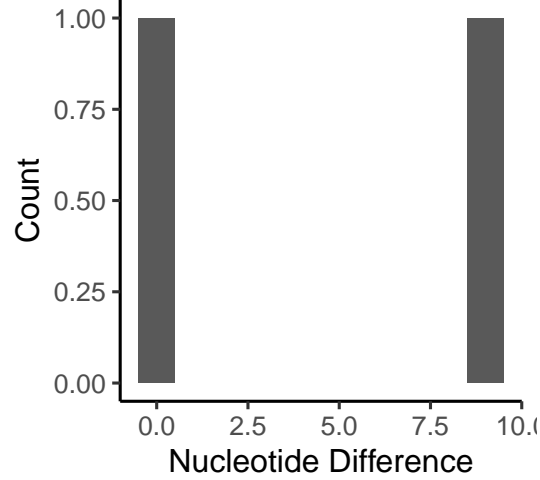
IGHV4-28*01

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



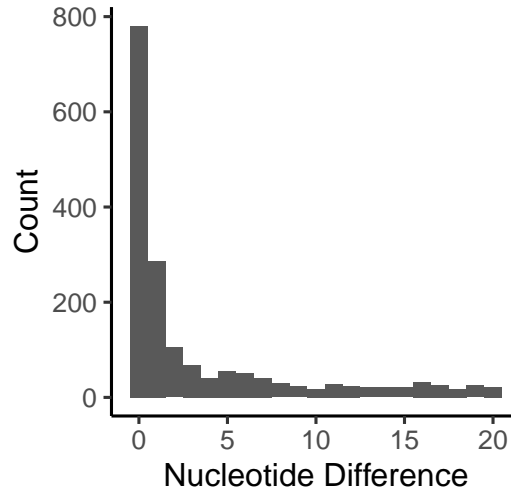
IGHV4-28*03

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



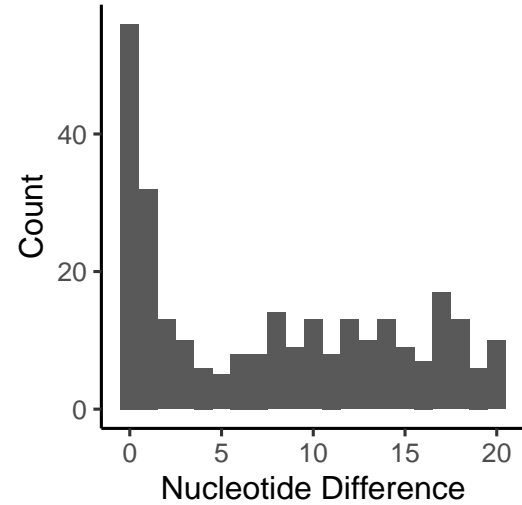
IGHV4-34*01

1982 sequences assigned
781 (39.4%) exact matches, in which:
691 unique CDR3
6 unique J



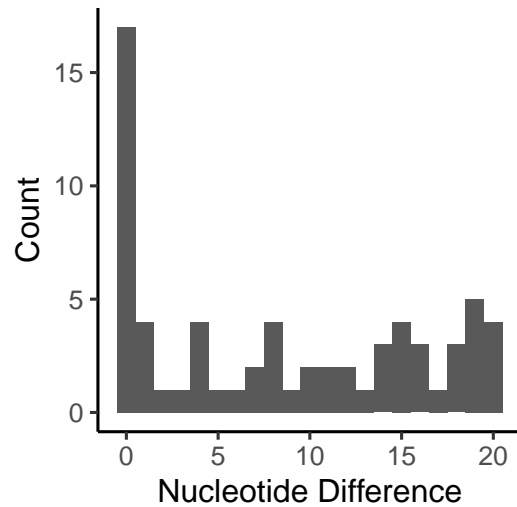
IGHV4-59*08

373 sequences assigned
56 (15%) exact matches, in which:
53 unique CDR3
6 unique J



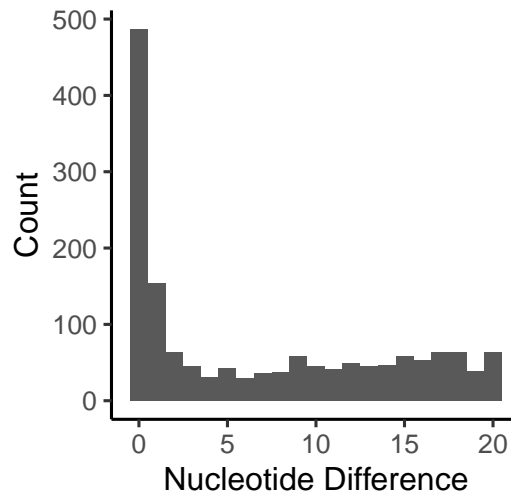
IGHV4-30-2*01

162 sequences assigned
17 (10.5%) exact matches, in which:
17 unique CDR3
4 unique J



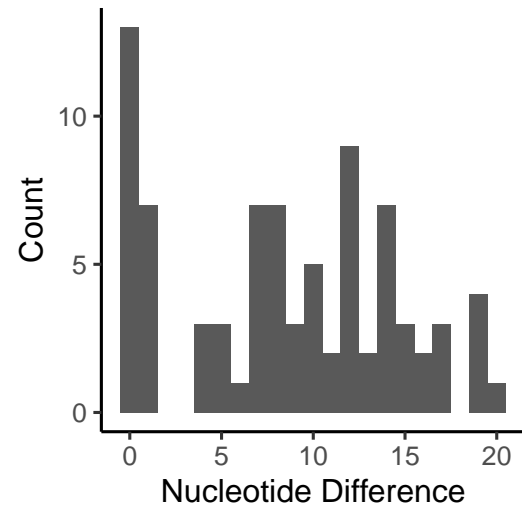
IGHV4-39*01

2177 sequences assigned
487 (22.4%) exact matches, in which:
472 unique CDR3
6 unique J



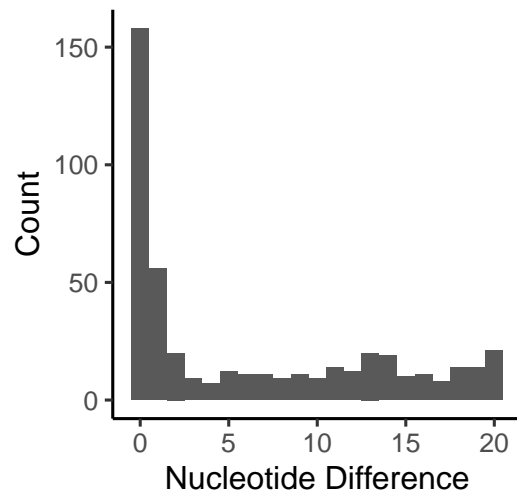
IGHV4-61*01

108 sequences assigned
13 (12%) exact matches, in which:
13 unique CDR3
4 unique J



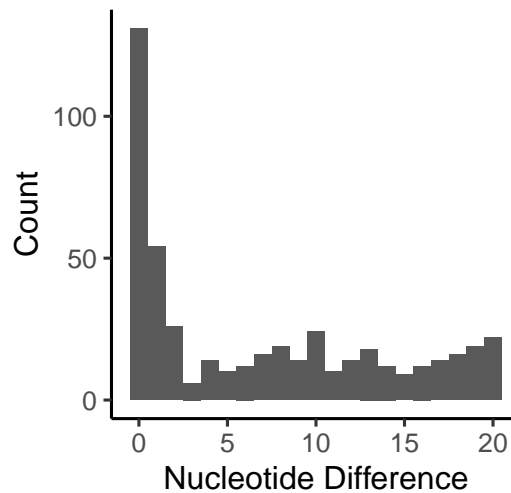
IGHV4-31*03

599 sequences assigned
158 (26.4%) exact matches, in which:
156 unique CDR3
6 unique J



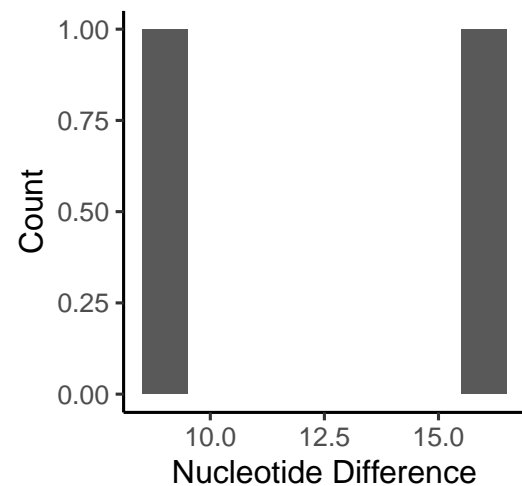
IGHV4-59*01

610 sequences assigned
131 (21.5%) exact matches, in which:
129 unique CDR3
5 unique J



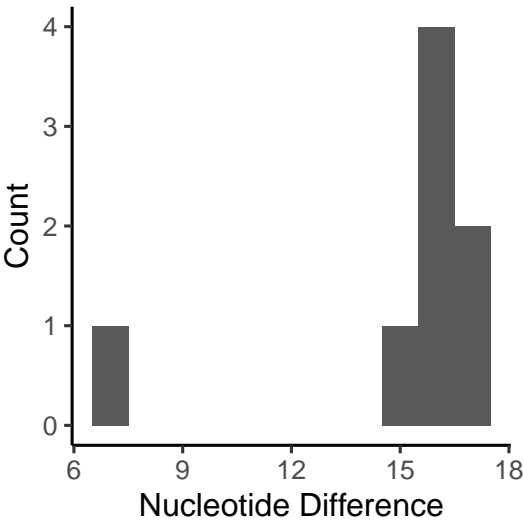
IGHV4-61*08

12 sequences assigned
No exact matches.



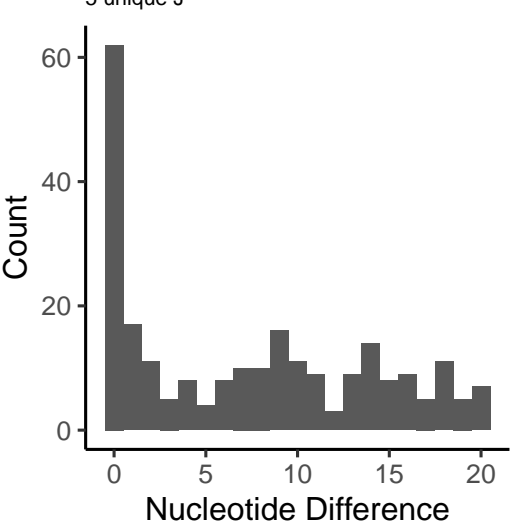
IGHV4/OR15–8*02

9 sequences assigned
No exact matches.



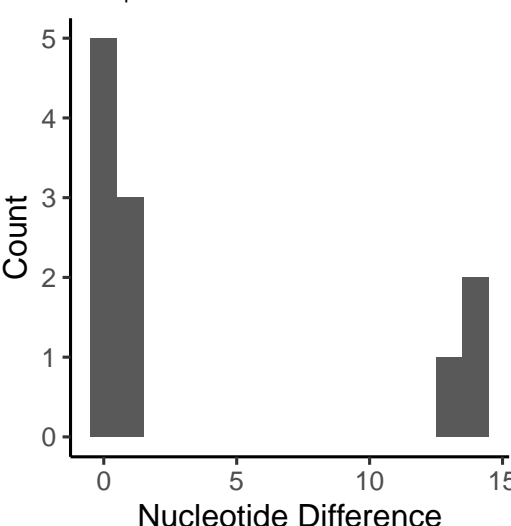
IGHV5–51*03

276 sequences assigned
62 (22.5%) exact matches, in which:
60 unique CDR3
5 unique J



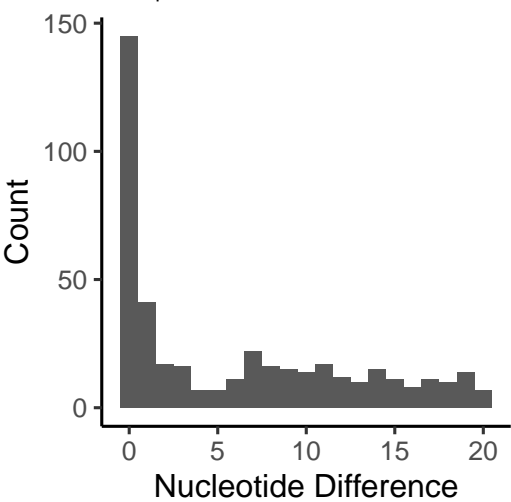
IGHV7–4–1*01

17 sequences assigned
5 (29.4%) exact matches, in which:
5 unique CDR3
3 unique J



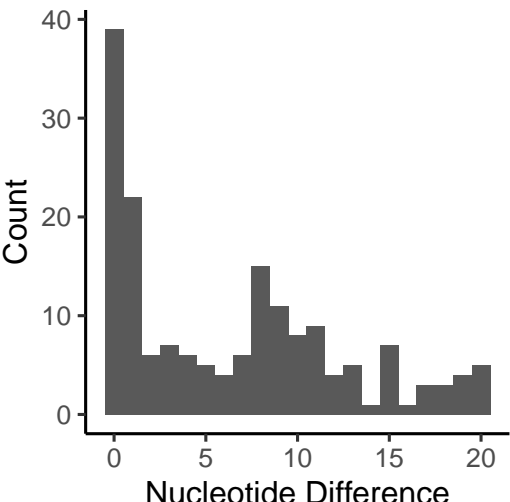
IGHV5–10–1*03

511 sequences assigned
145 (28.4%) exact matches, in which:
145 unique CDR3
5 unique J



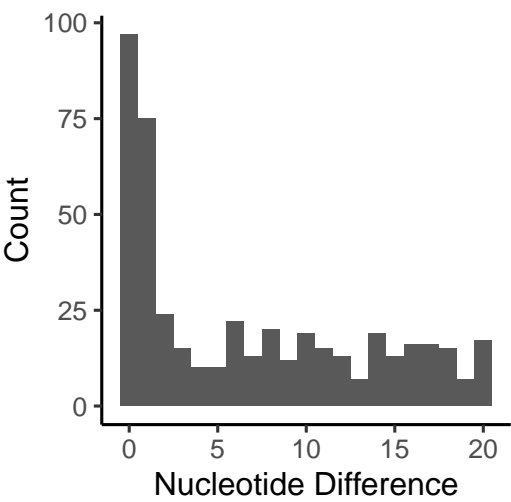
IGHV6–1*01

186 sequences assigned
39 (21%) exact matches, in which:
37 unique CDR3
4 unique J



IGHV5–51*01

539 sequences assigned
97 (18%) exact matches, in which:
90 unique CDR3
5 unique J



IGHV3/OR16–8*01

1 sequences assigned
No exact matches.

