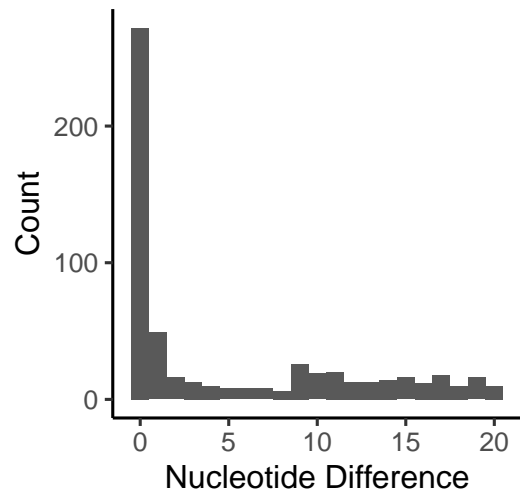


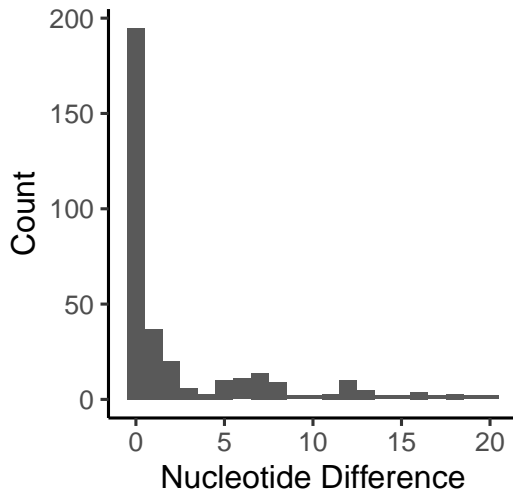
IGHV1-2*02

651 sequences assigned
272 (41.8%) exact matches, in which:
264 unique CDR3
6 unique J



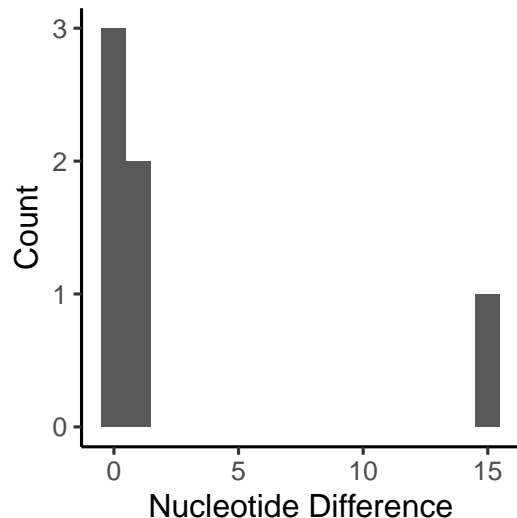
IGHV1-8*01

376 sequences assigned
195 (51.9%) exact matches, in which:
186 unique CDR3
6 unique J



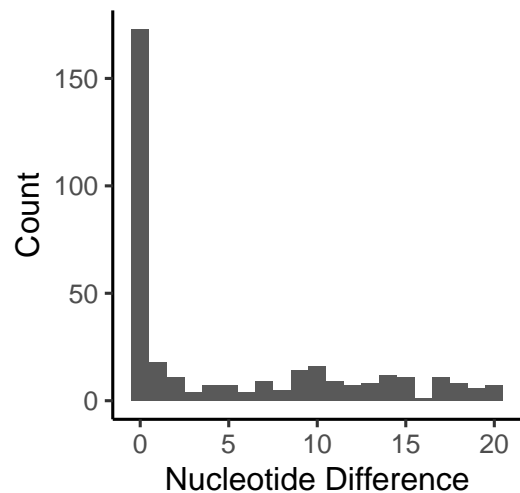
IGHV1-45*02

6 sequences assigned
3 (50%) exact matches, in which:
3 unique CDR3
2 unique J



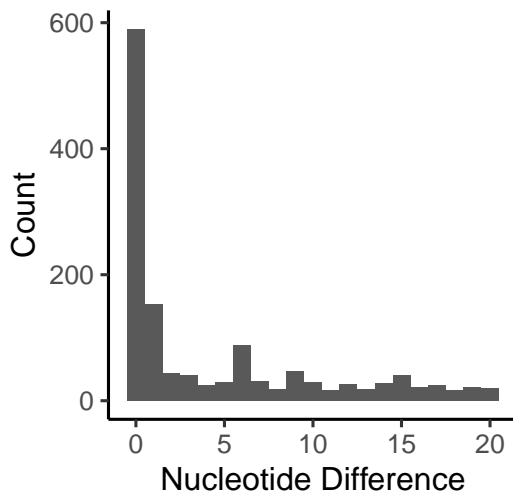
IGHV1-2*06

409 sequences assigned
173 (42.3%) exact matches, in which:
164 unique CDR3
6 unique J



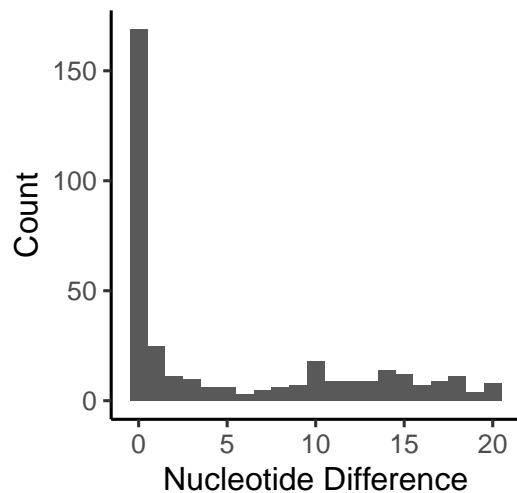
IGHV1-18*01

1489 sequences assigned
590 (39.6%) exact matches, in which:
549 unique CDR3
6 unique J



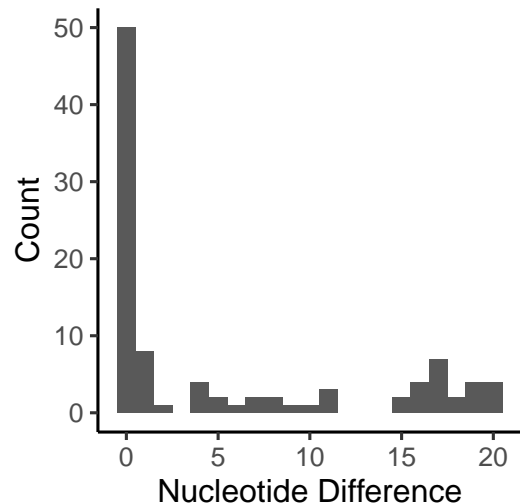
IGHV1-46*01

444 sequences assigned
169 (38.1%) exact matches, in which:
163 unique CDR3
6 unique J



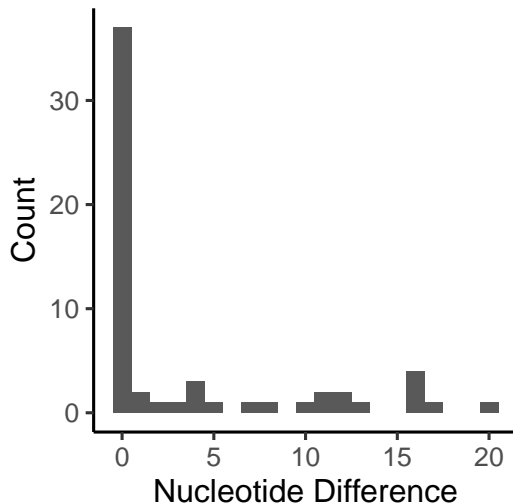
IGHV1-3*01_05

114 sequences assigned
50 (43.9%) exact matches, in which:
49 unique CDR3
6 unique J



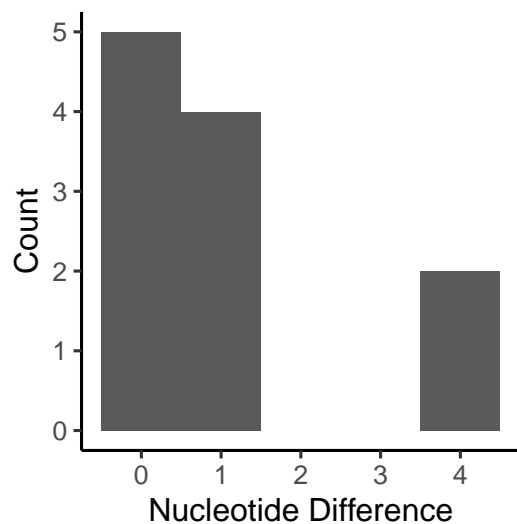
IGHV1-24*01

66 sequences assigned
37 (56.1%) exact matches, in which:
37 unique CDR3
6 unique J



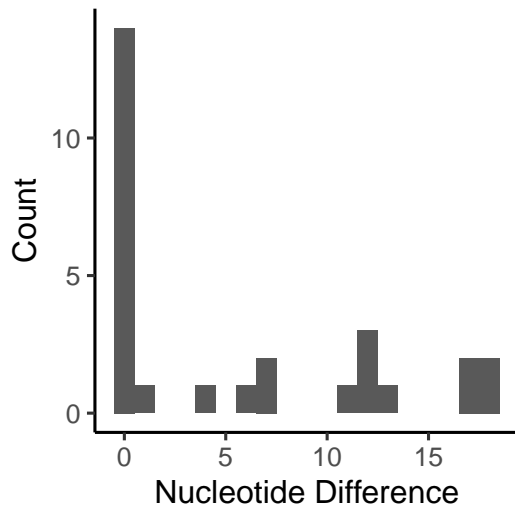
IGHV1-58*02

11 sequences assigned
5 (45.5%) exact matches, in which:
5 unique CDR3
2 unique J



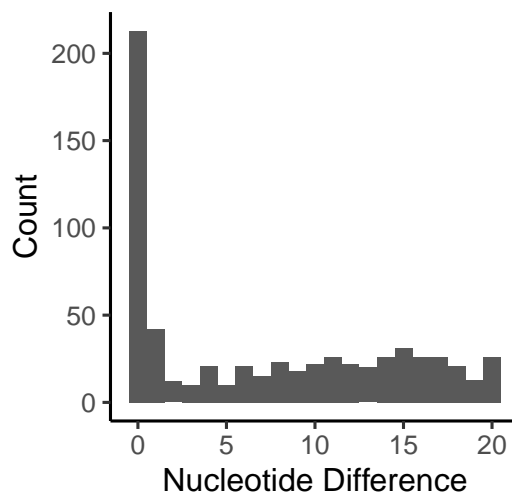
IGHV1-58*01_03

30 sequences assigned
14 (46.7%) exact matches, in which:
14 unique CDR3
5 unique J



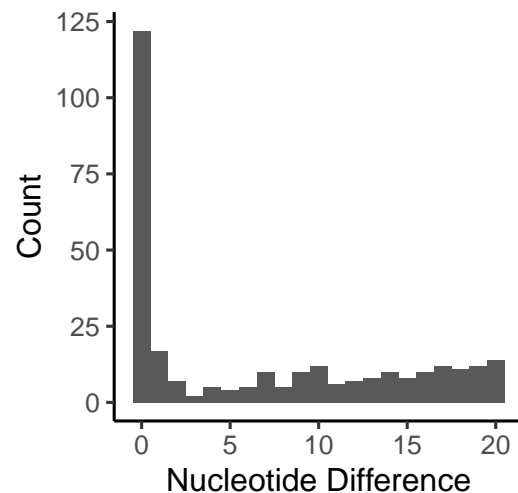
IGHV3-7*01

740 sequences assigned
213 (28.8%) exact matches, in which:
207 unique CDR3
6 unique J



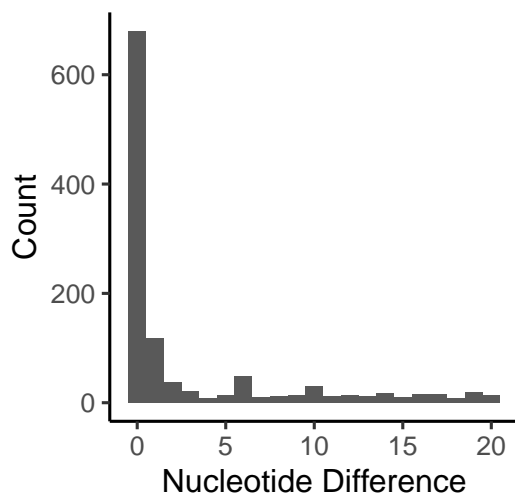
IGHV3-11*01

346 sequences assigned
122 (35.3%) exact matches, in which:
119 unique CDR3
6 unique J



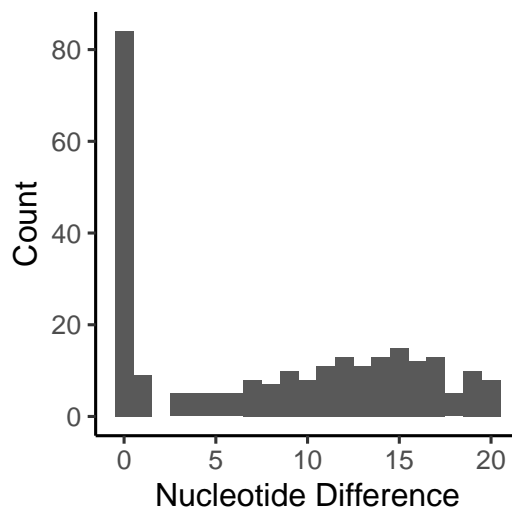
IGHV1-69*01_12_13

1269 sequences assigned
680 (53.6%) exact matches, in which:
649 unique CDR3
6 unique J



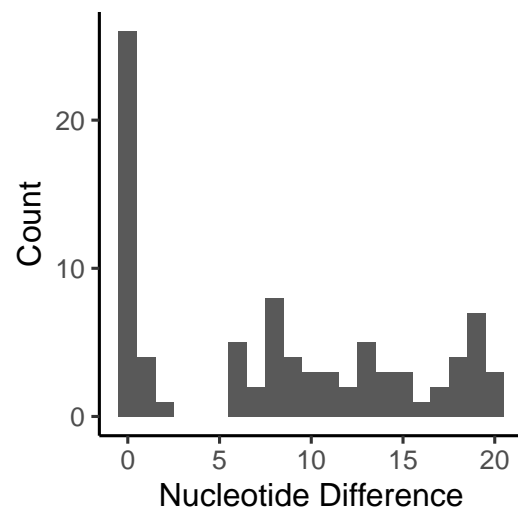
IGHV3-7*05

298 sequences assigned
84 (28.2%) exact matches, in which:
82 unique CDR3
6 unique J



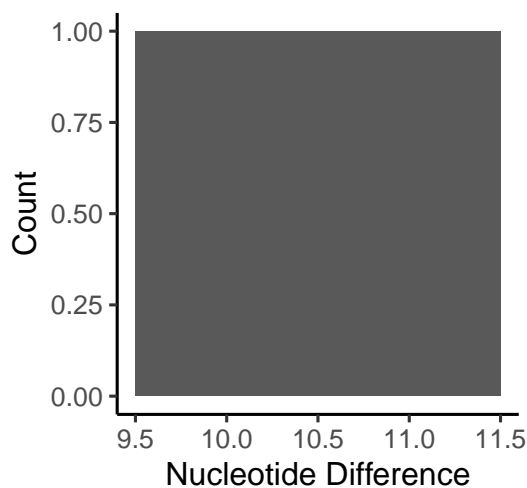
IGHV3-11*06

106 sequences assigned
26 (24.5%) exact matches, in which:
24 unique CDR3
5 unique J



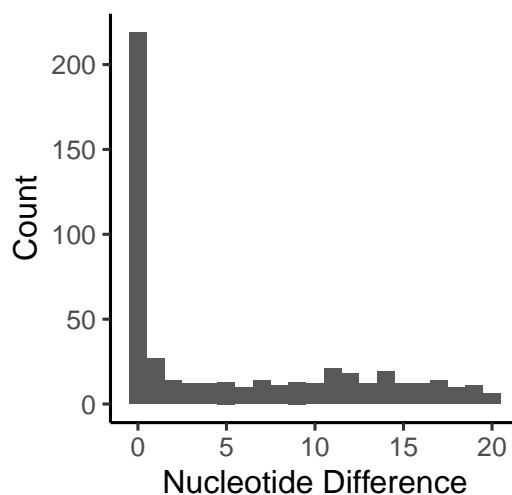
IGHV2-5*01

2 sequences assigned
No exact matches.



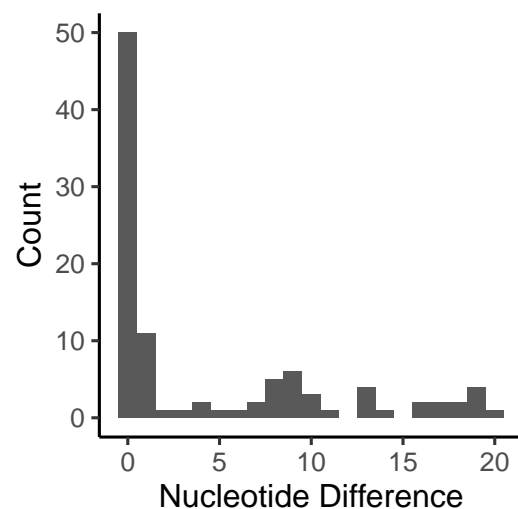
IGHV3-9*01

586 sequences assigned
219 (37.4%) exact matches, in which:
212 unique CDR3
6 unique J



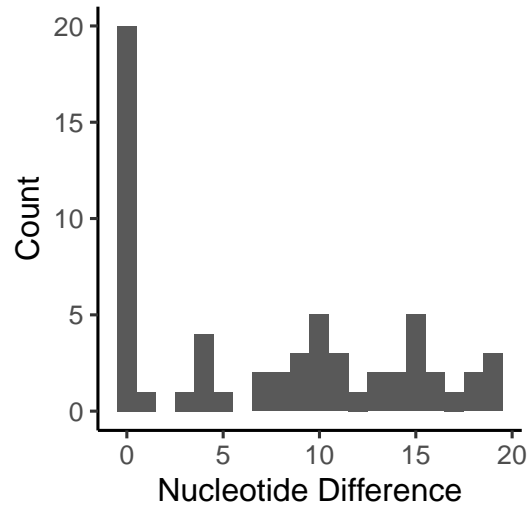
IGHV3-13*01

108 sequences assigned
50 (46.3%) exact matches, in which:
50 unique CDR3
5 unique J



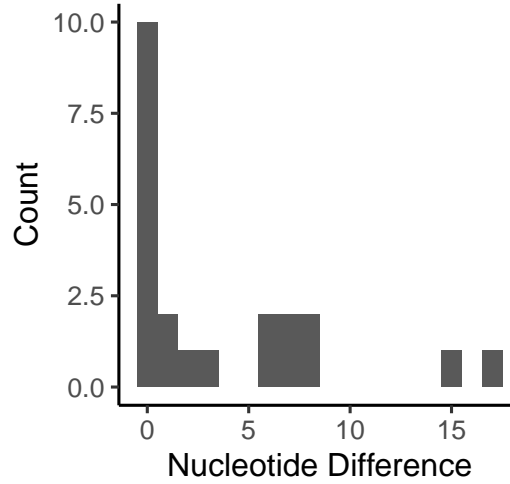
IGHV3-13*01_G290A_T3I

79 sequences assigned
20 (25.3%) exact matches, in which:
19 unique CDR3
4 unique J



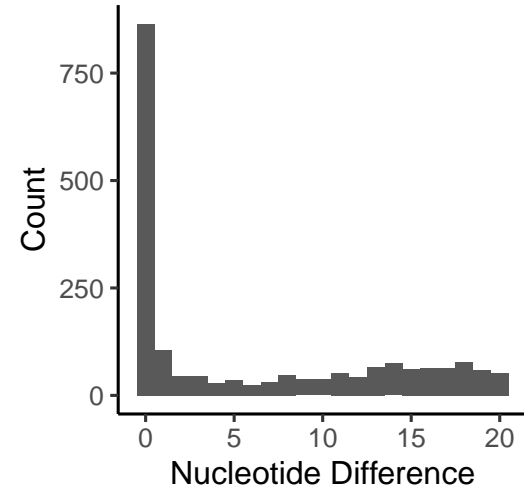
IGHV3-20*01_02

26 sequences assigned
10 (38.5%) exact matches, in which:
10 unique CDR3
3 unique J



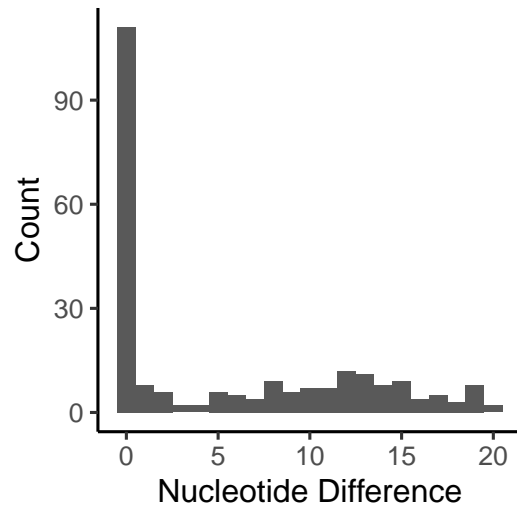
IGHV3-23*01_04

2397 sequences assigned
865 (36.1%) exact matches, in which:
848 unique CDR3
6 unique J



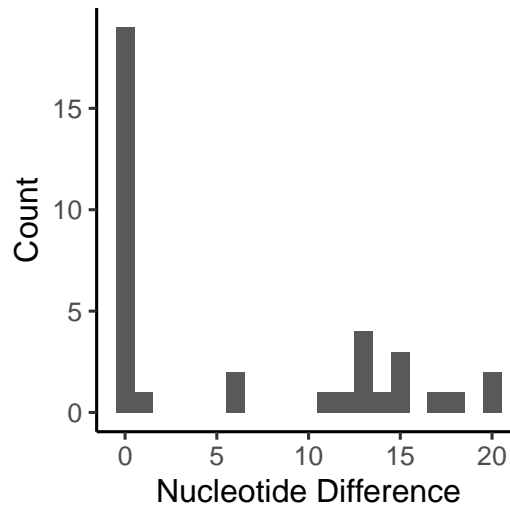
IGHV3-15*07

276 sequences assigned
111 (40.2%) exact matches, in which:
110 unique CDR3
6 unique J



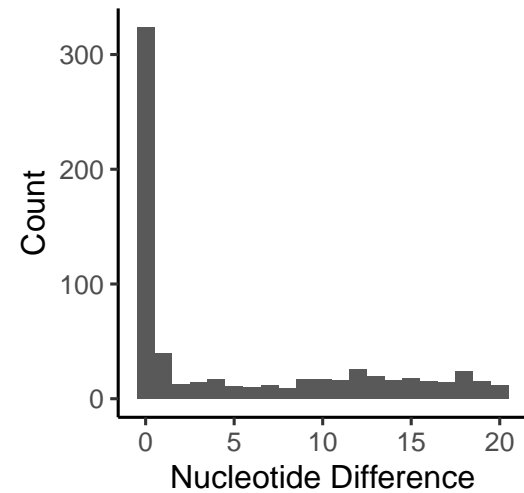
IGHV3-20*03_04

66 sequences assigned
19 (28.8%) exact matches, in which:
19 unique CDR3
6 unique J



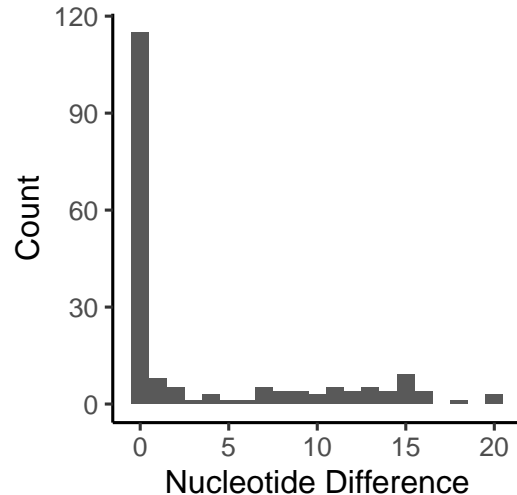
IGHV3-23*01_04_C113G

782 sequences assigned
324 (41.4%) exact matches, in which:
322 unique CDR3
6 unique J



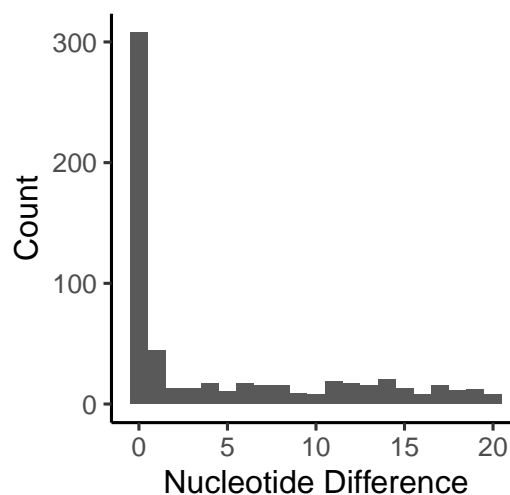
IGHV3-15*01_02

202 sequences assigned
115 (56.9%) exact matches, in which:
113 unique CDR3
6 unique J



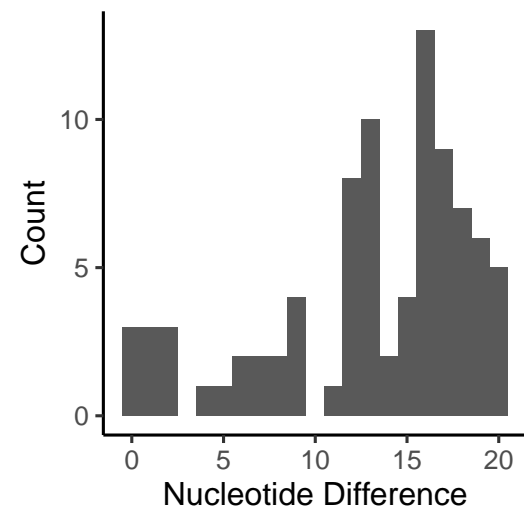
IGHV3-21*01_02

733 sequences assigned
308 (42%) exact matches, in which:
302 unique CDR3
6 unique J



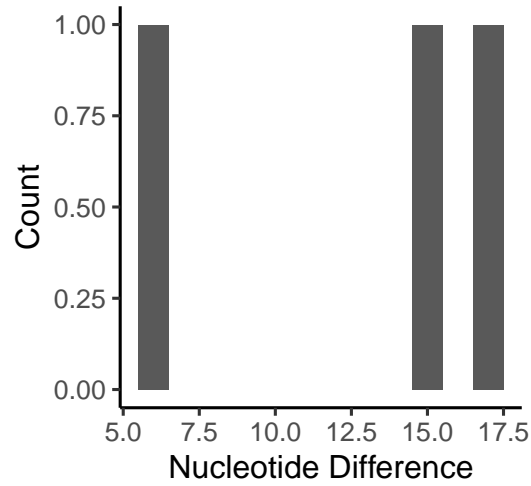
IGHV3-30-5*02

170 sequences assigned
3 (1.8%) exact matches, in which:
3 unique CDR3
1 unique J



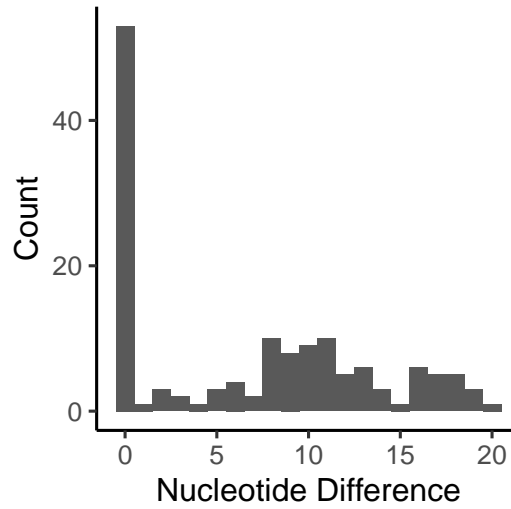
IGHV3-30-3*03

8 sequences assigned
No exact matches.



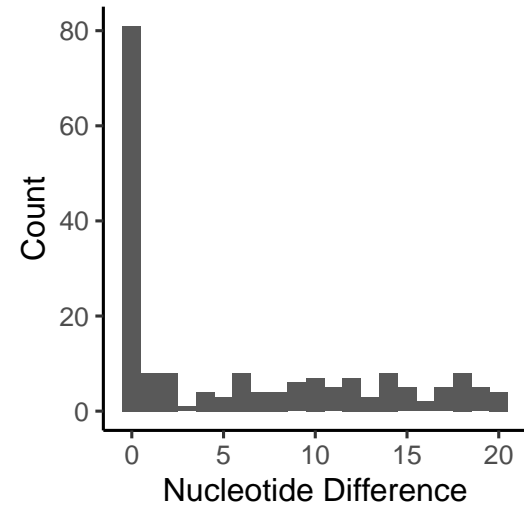
IGHV3-43*01

163 sequences assigned
53 (32.5%) exact matches, in which:
50 unique CDR3
6 unique J



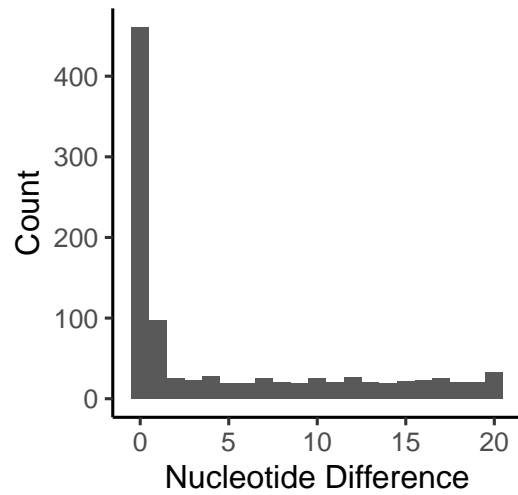
IGHV3-49*04

216 sequences assigned
81 (37.5%) exact matches, in which:
80 unique CDR3
6 unique J



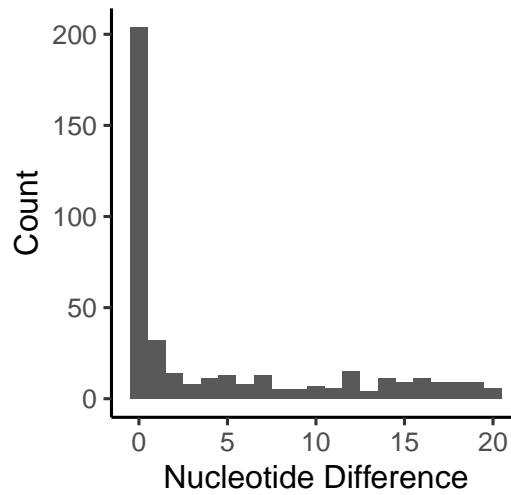
IGHV3-30*02_T201C

1174 sequences assigned
461 (39.3%) exact matches, in which:
388 unique CDR3
6 unique J



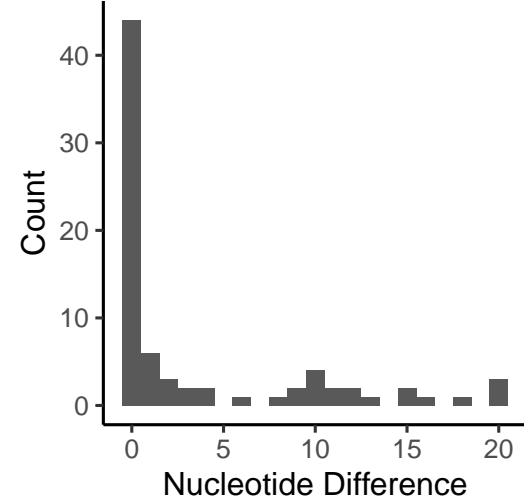
IGHV3-48*01

467 sequences assigned
204 (43.7%) exact matches, in which:
199 unique CDR3
6 unique J



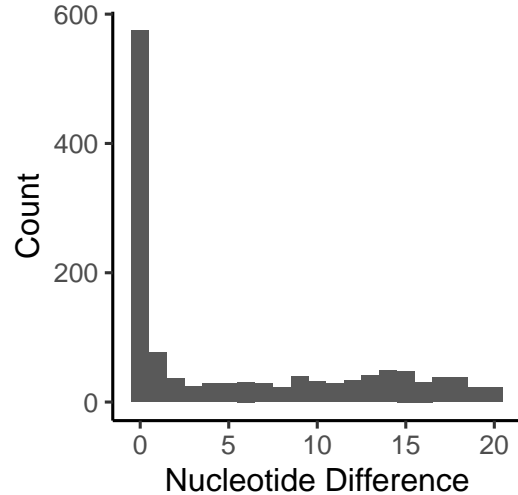
IGHV3-49*03_05

91 sequences assigned
44 (48.4%) exact matches, in which:
43 unique CDR3
5 unique J



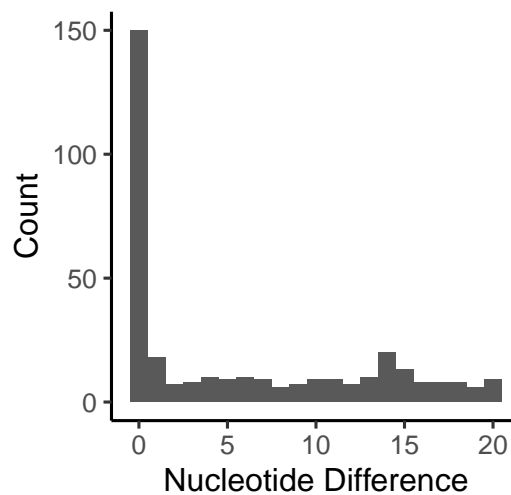
IGHV3-33*01

1460 sequences assigned
575 (39.4%) exact matches, in which:
512 unique CDR3
6 unique J



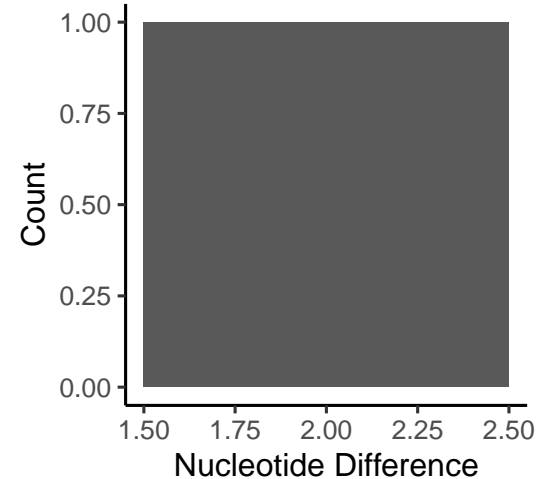
IGHV3-48*02

422 sequences assigned
150 (35.5%) exact matches, in which:
142 unique CDR3
6 unique J



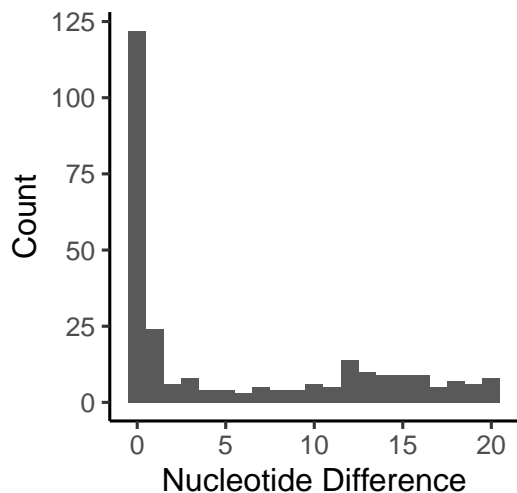
IGHV3-52*02

1 sequences assigned
No exact matches.



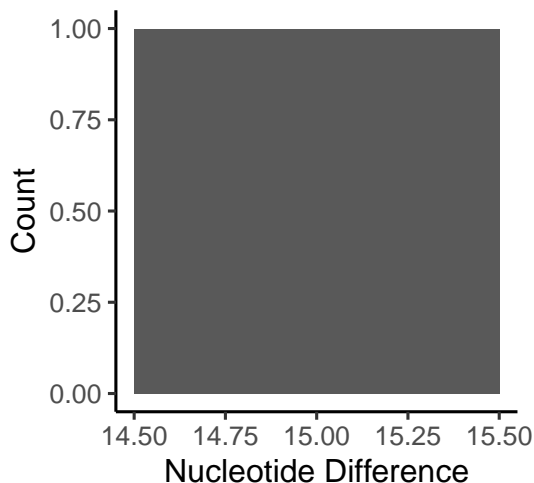
IGHV3-53*01_02

318 sequences assigned
122 (38.4%) exact matches, in which:
118 unique CDR3
6 unique J



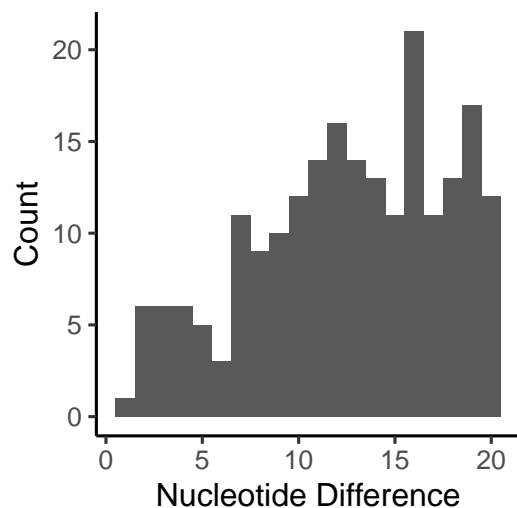
IGHV3-69-1*01

4 sequences assigned
No exact matches.



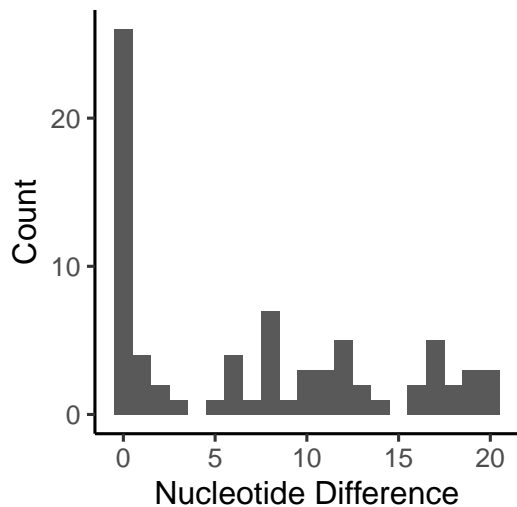
IGHV3-74*03

338 sequences assigned
No exact matches.



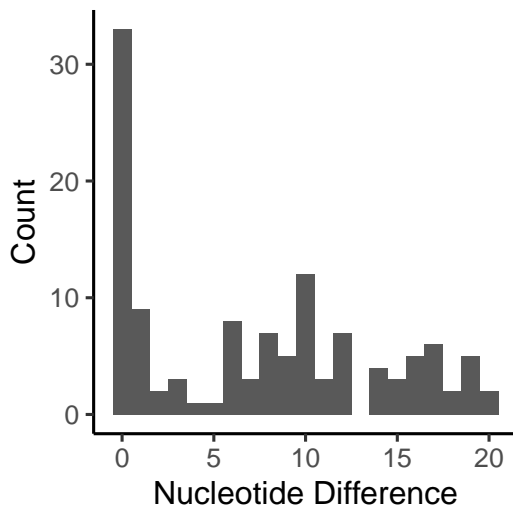
IGHV3-64*02_07

93 sequences assigned
26 (28%) exact matches, in which:
25 unique CDR3
6 unique J



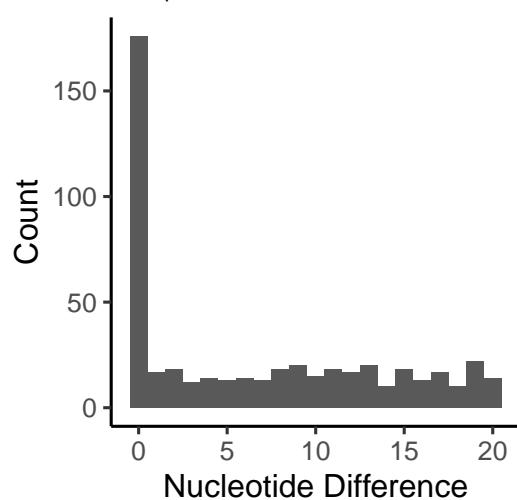
IGHV3-72*01

130 sequences assigned
33 (25.4%) exact matches, in which:
30 unique CDR3
6 unique J



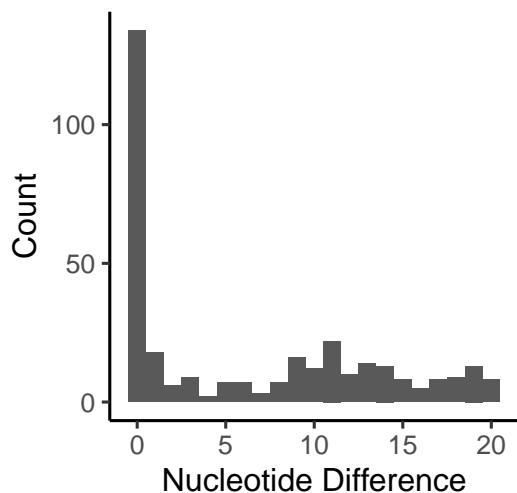
IGHV3-74*01_02

539 sequences assigned
176 (32.7%) exact matches, in which:
172 unique CDR3
6 unique J



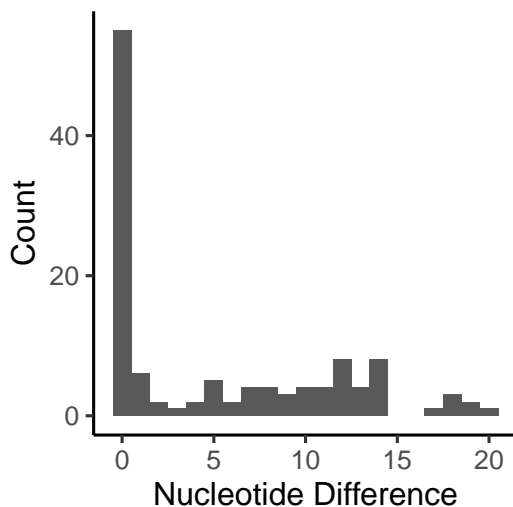
IGHV3-66*02

412 sequences assigned
134 (32.5%) exact matches, in which:
128 unique CDR3
6 unique J



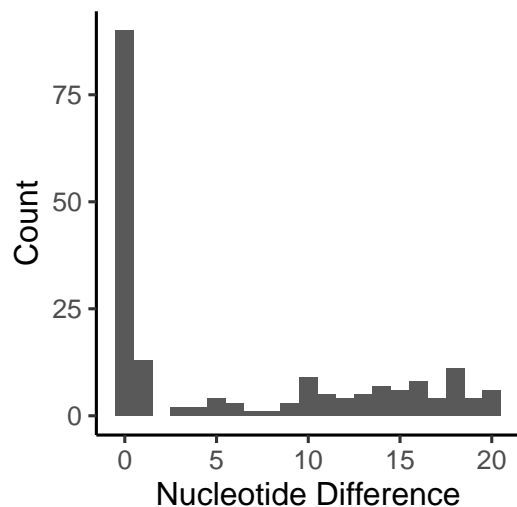
IGHV3-73*01_02

140 sequences assigned
55 (39.3%) exact matches, in which:
55 unique CDR3
6 unique J



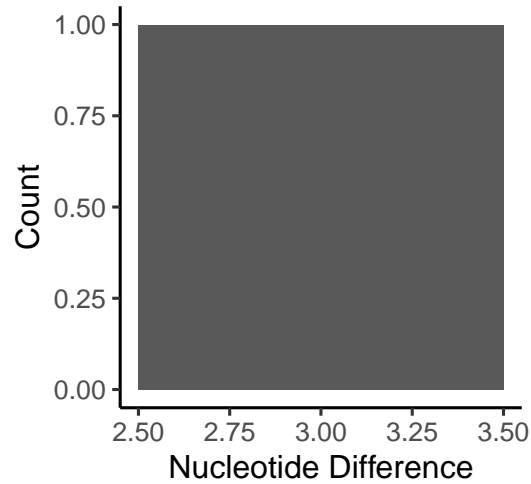
IGHV3-64D*08

237 sequences assigned
90 (38%) exact matches, in which:
78 unique CDR3
6 unique J



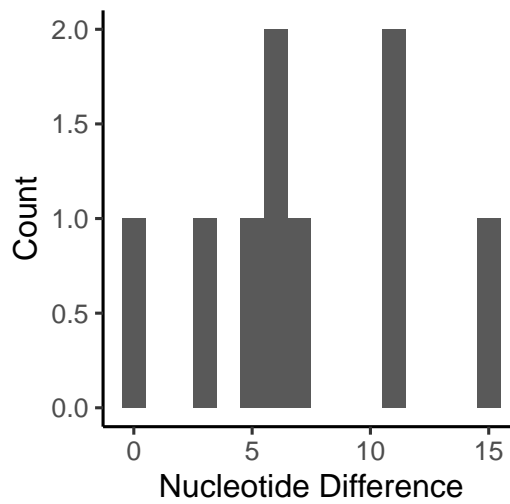
IGHV3–NL1*01

1 sequences assigned
No exact matches.



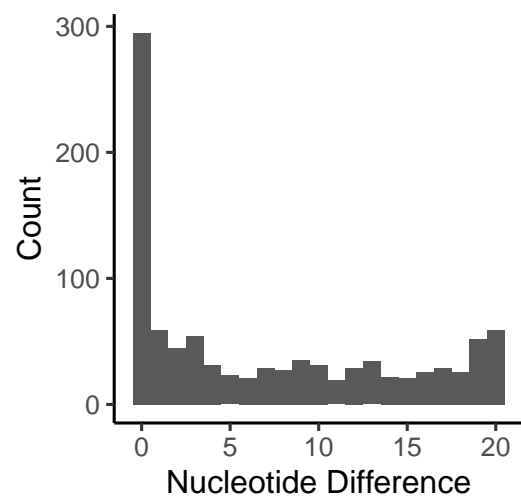
IGHV4–28*06

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



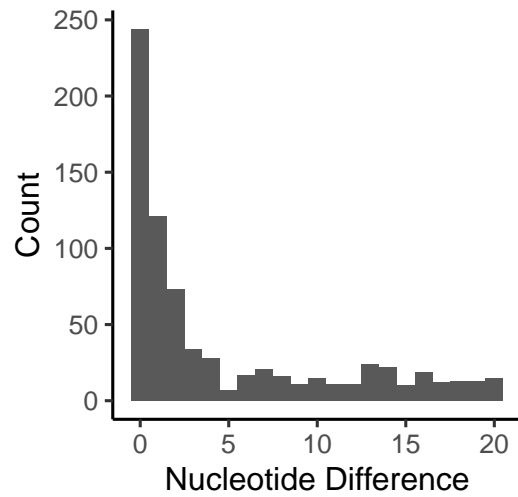
IGHV4–31*02

1436 sequences assigned
295 (20.5%) exact matches, in which:
234 unique CDR3
6 unique J



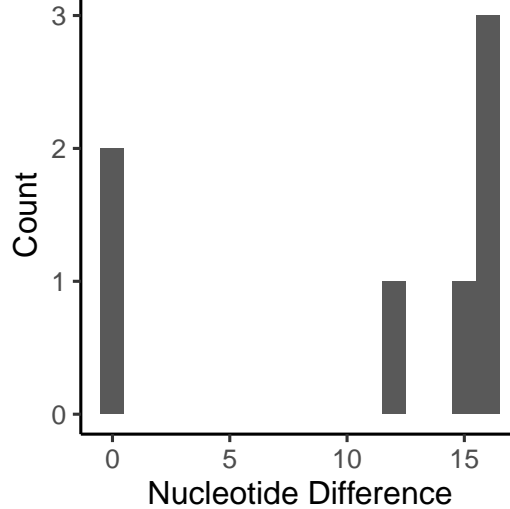
IGHV4–4*07

899 sequences assigned
244 (27.1%) exact matches, in which:
174 unique CDR3
6 unique J



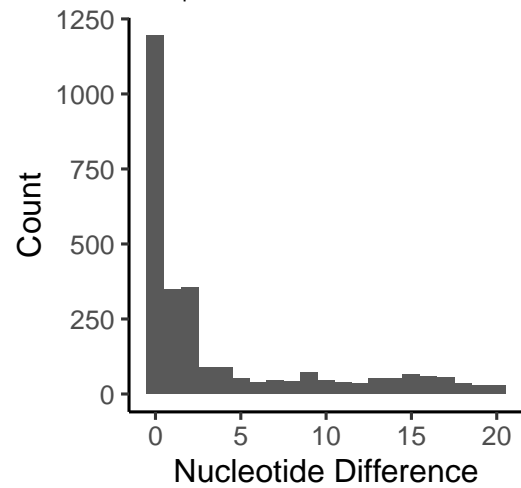
IGHV4–28*01_07

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
2 unique J



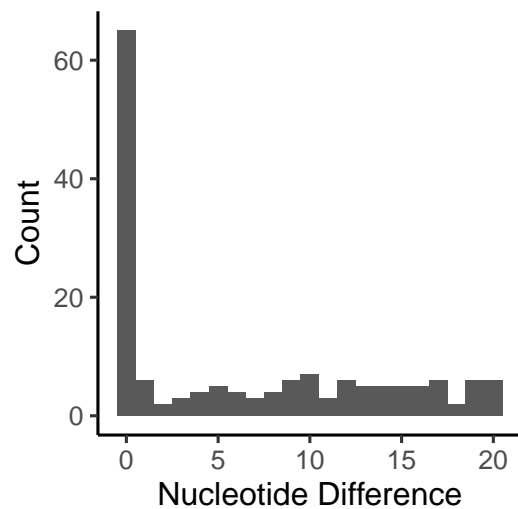
IGHV4–34*01_02

3105 sequences assigned
1194 (38.5%) exact matches, in which:
930 unique CDR3
6 unique J



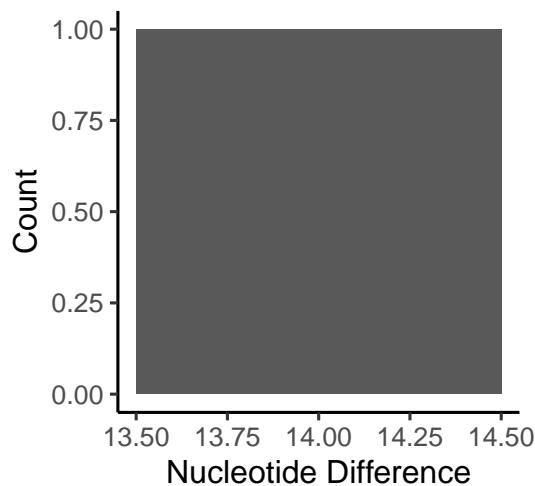
IGHV4–4*02_03

211 sequences assigned
65 (30.8%) exact matches, in which:
58 unique CDR3
6 unique J



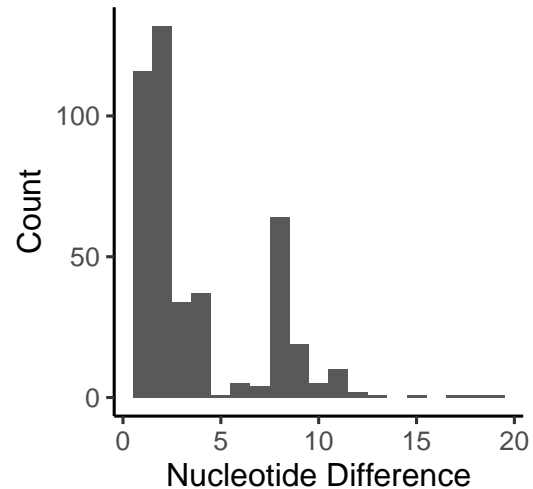
IGHV4–30–4*01

9 sequences assigned
No exact matches.



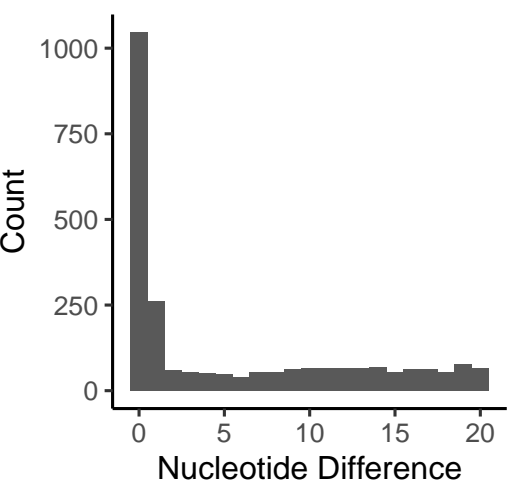
IGHV4–39*07

439 sequences assigned
No exact matches.



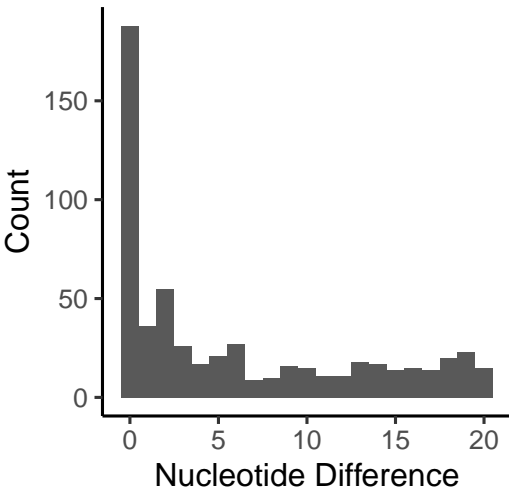
IGHV4-39*02_C258G

3257 sequences assigned
1046 (32.1%) exact matches, in which:
830 unique CDR3
6 unique J



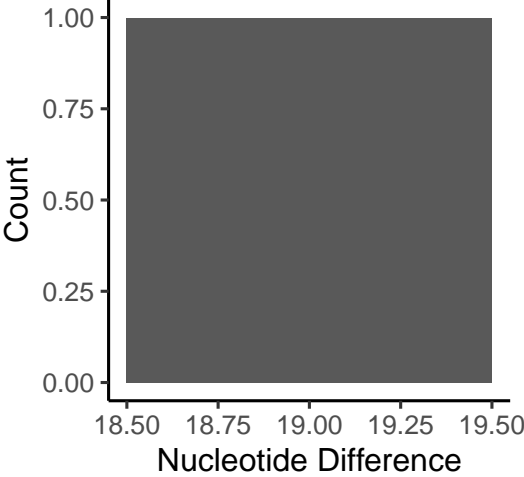
IGHV4-61*01

682 sequences assigned
188 (27.6%) exact matches, in which:
162 unique CDR3
6 unique J



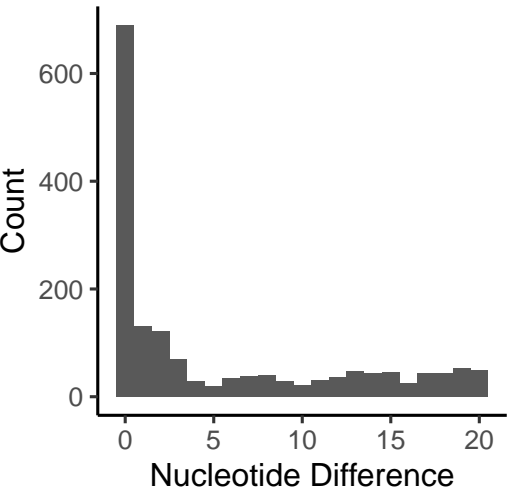
IGHV4/OR15-8*03

1 sequences assigned
No exact matches.



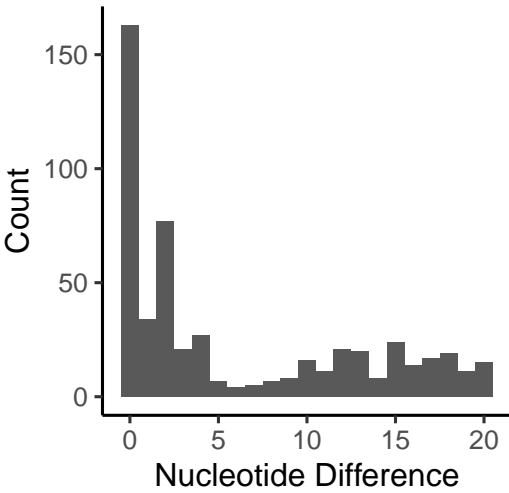
IGHV4-59*11

1989 sequences assigned
690 (34.7%) exact matches, in which:
546 unique CDR3
6 unique J



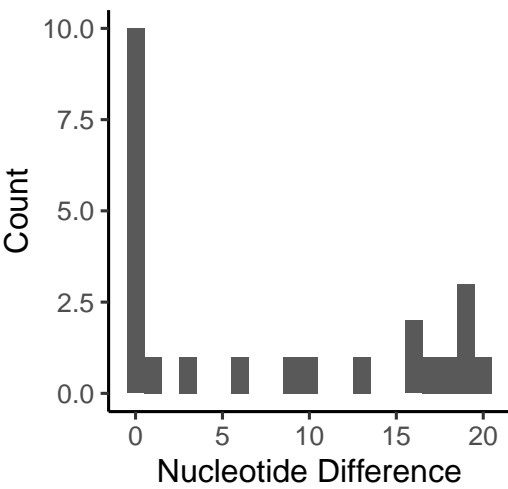
IGHV4-61*09

665 sequences assigned
163 (24.5%) exact matches, in which:
140 unique CDR3
6 unique J



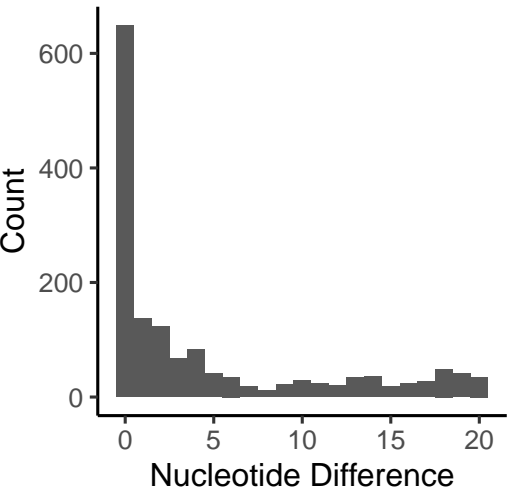
IGHV5-10-1*01_03

27 sequences assigned
10 (37%) exact matches, in which:
10 unique CDR3
4 unique J



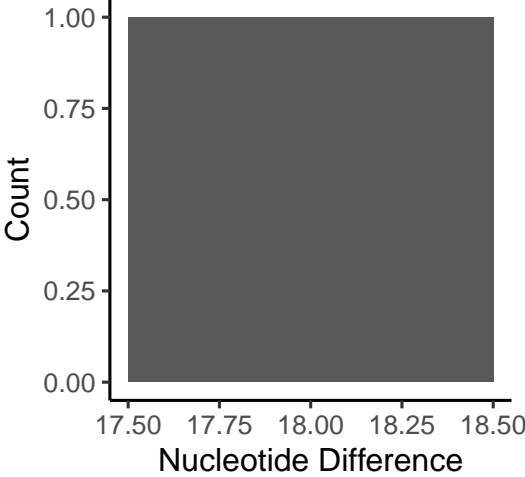
IGHV4-59*02_G88A

1795 sequences assigned
649 (36.2%) exact matches, in which:
512 unique CDR3
6 unique J



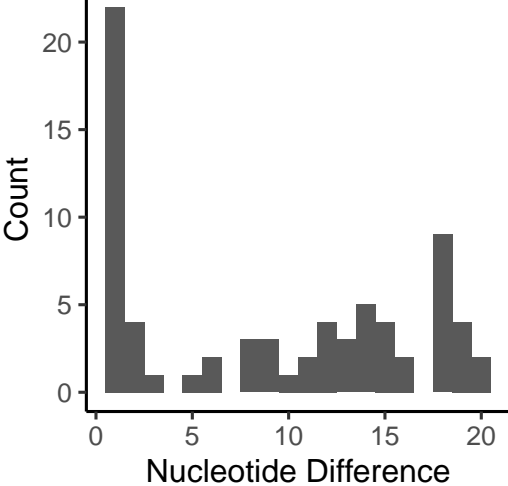
IGHV4/OR15-8*02

4 sequences assigned
No exact matches.



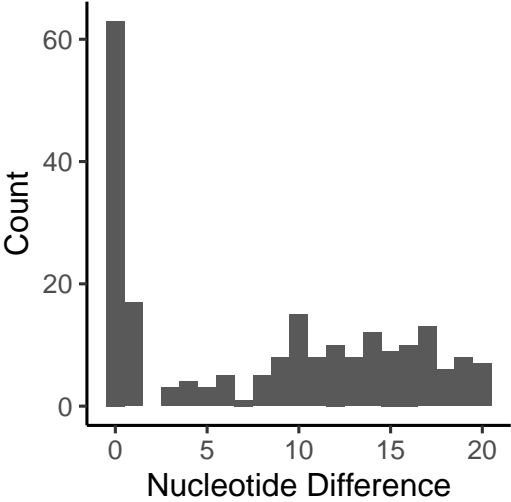
IGHV5-51*07

82 sequences assigned
No exact matches.



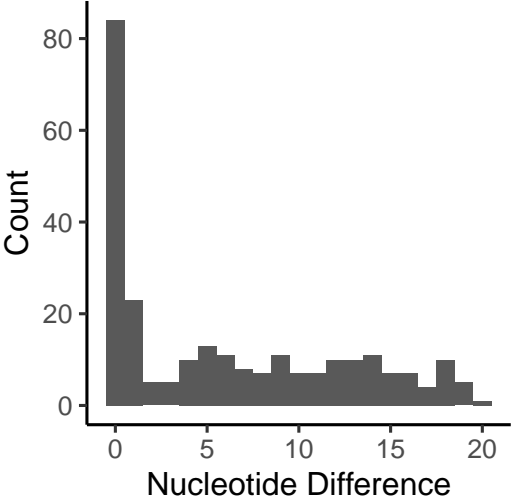
IGHV5-51*01_03

266 sequences assigned
63 (23.7%) exact matches, in which:
63 unique CDR3
6 unique J



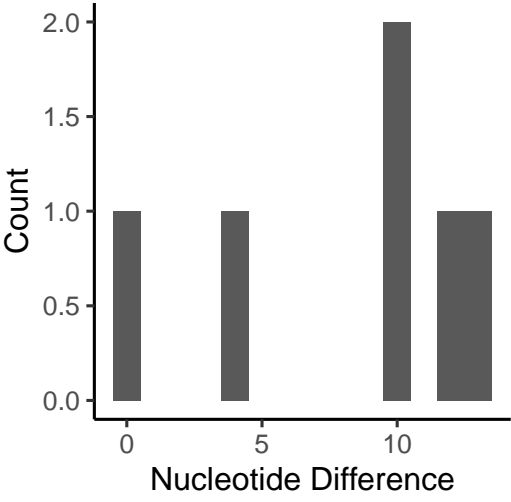
IGHV6-1*01_02

284 sequences assigned
84 (29.6%) exact matches, in which:
77 unique CDR3
5 unique J



IGHV7-4-1*01

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J





Warning – no inferred sequences found.