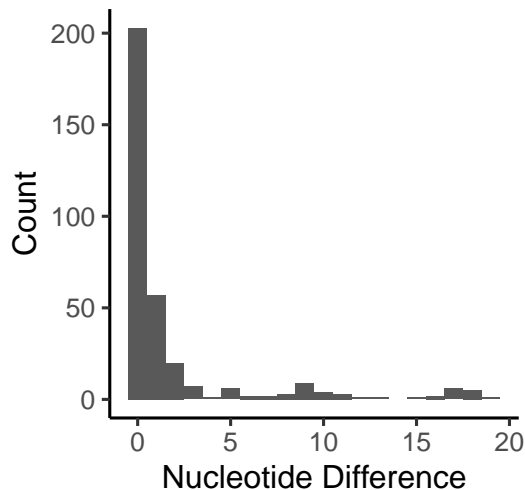


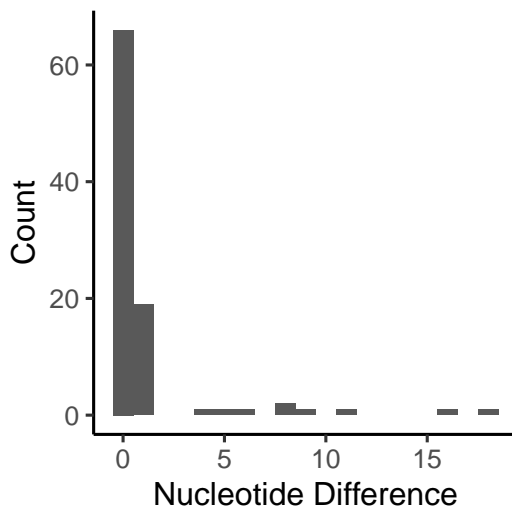
IGHV1-2*04

354 sequences assigned
203 (57.3%) exact matches, in which:
195 unique CDR3
5 unique J



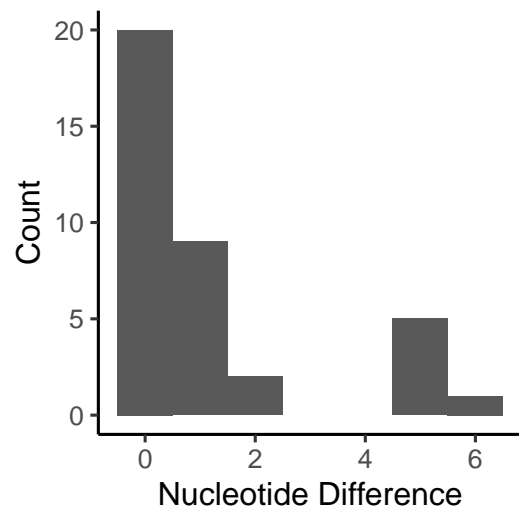
IGHV1-24*01

99 sequences assigned
66 (66.7%) exact matches, in which:
64 unique CDR3
5 unique J



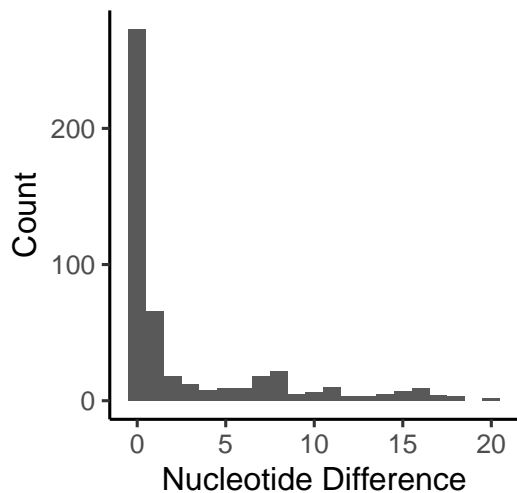
IGHV1-58*02

333 sequences assigned
20 (6%) exact matches, in which:
18 unique CDR3
5 unique J



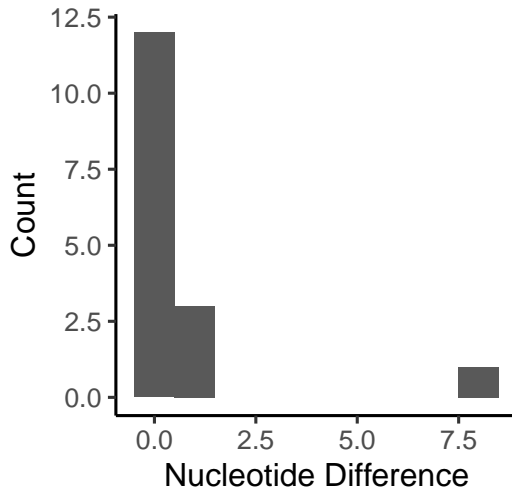
IGHV1-3*01_05

511 sequences assigned
273 (53.4%) exact matches, in which:
264 unique CDR3
6 unique J



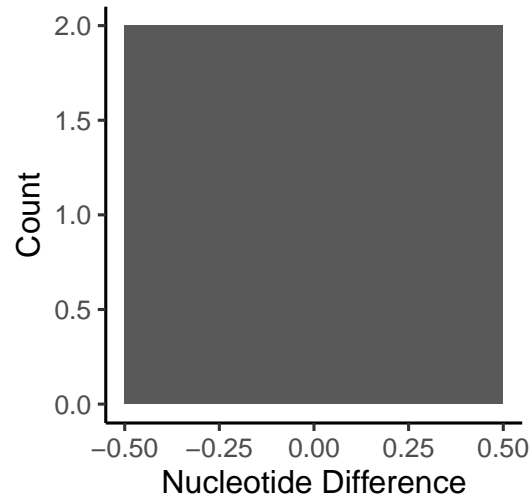
IGHV1-45*02

16 sequences assigned
12 (75%) exact matches, in which:
9 unique CDR3
3 unique J



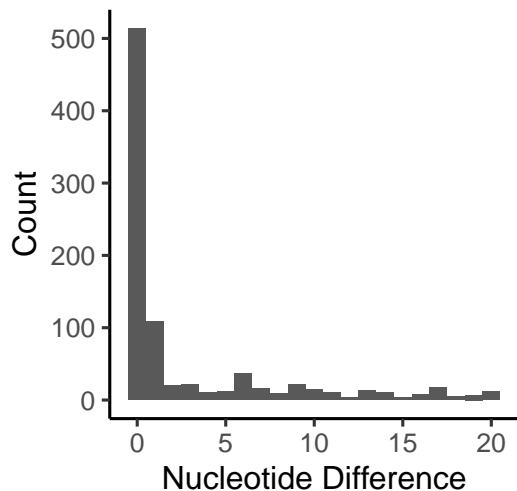
IGHV1-69-2*01

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



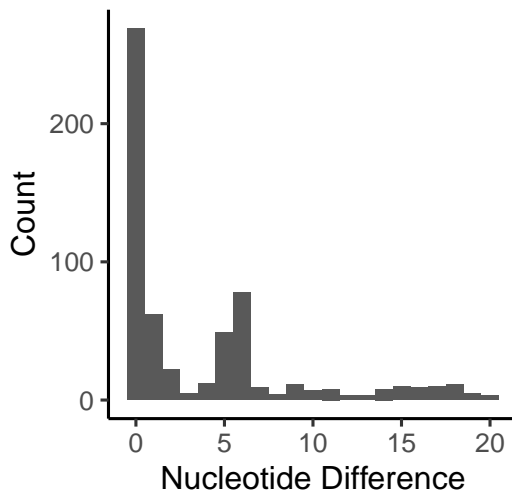
IGHV1-18*01

1225 sequences assigned
514 (42%) exact matches, in which:
478 unique CDR3
6 unique J



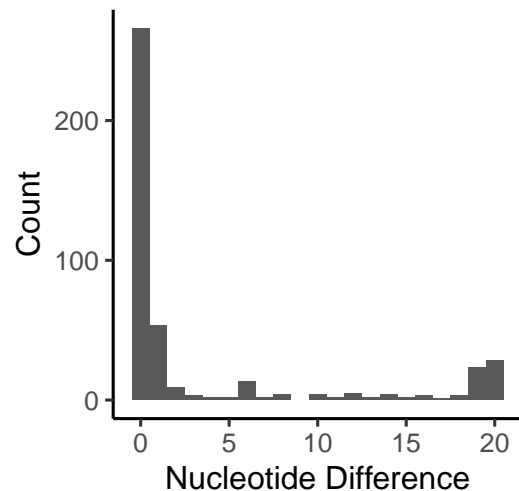
IGHV1-46*01

613 sequences assigned
269 (43.9%) exact matches, in which:
255 unique CDR3
6 unique J



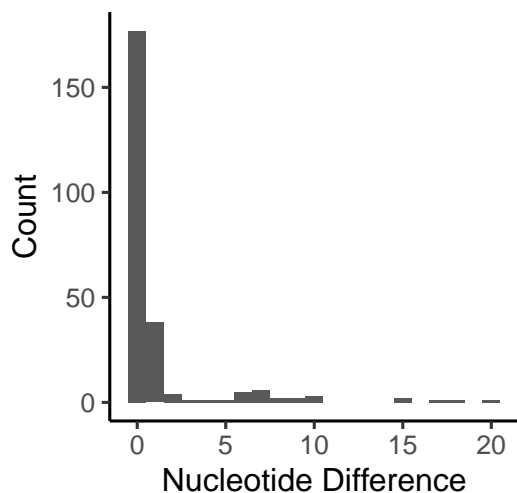
IGHV1-69*01_12_13

444 sequences assigned
266 (59.9%) exact matches, in which:
261 unique CDR3
6 unique J



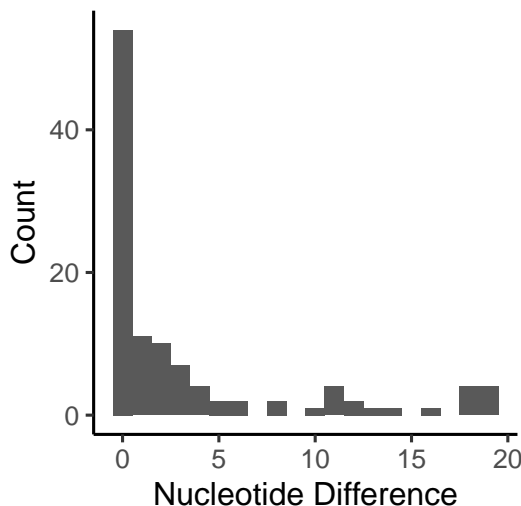
IGHV1–69*17

257 sequences assigned
177 (68.9%) exact matches, in which:
173 unique CDR3
6 unique J



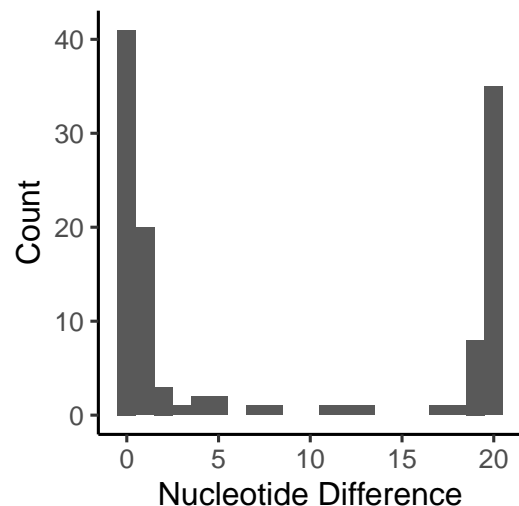
IGHV2–5*02

120 sequences assigned
54 (45%) exact matches, in which:
52 unique CDR3
4 unique J



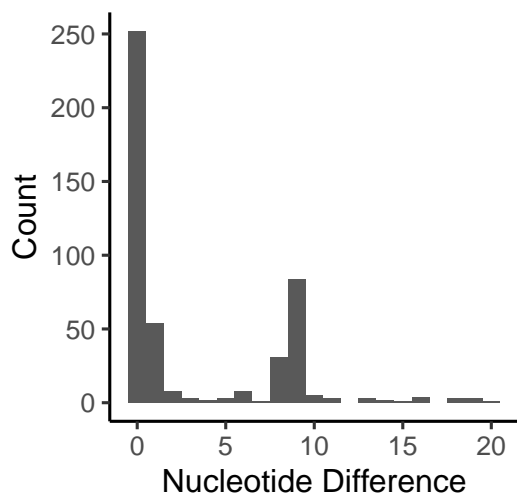
IGHV2–70*11_15

122 sequences assigned
41 (33.6%) exact matches, in which:
39 unique CDR3
5 unique J



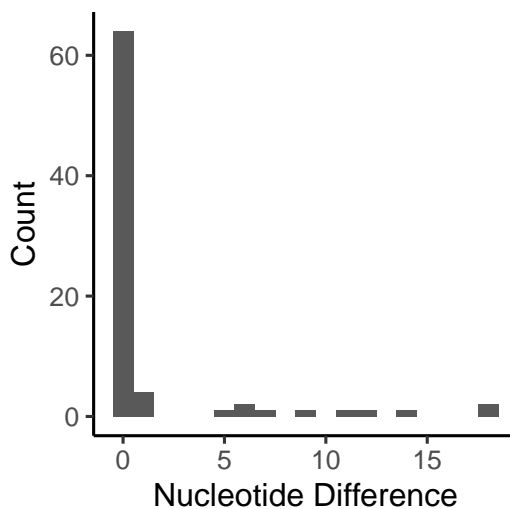
IGHV1–69*04_09

624 sequences assigned
252 (40.4%) exact matches, in which:
242 unique CDR3
6 unique J



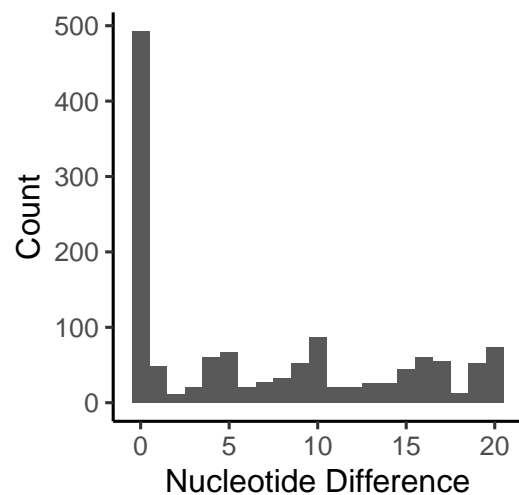
IGHV2–26*01

78 sequences assigned
64 (82.1%) exact matches, in which:
61 unique CDR3
5 unique J



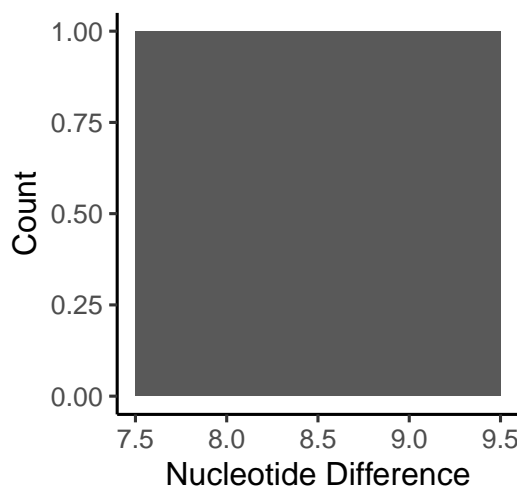
IGHV3–7*03

1455 sequences assigned
493 (33.9%) exact matches, in which:
266 unique CDR3
6 unique J



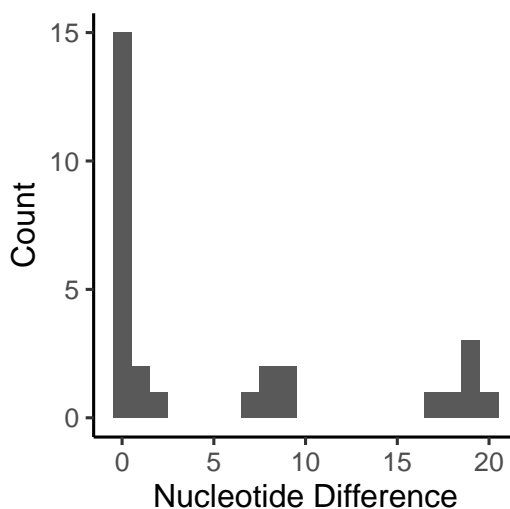
IGHV1–NL1*01

2 sequences assigned
No exact matches.



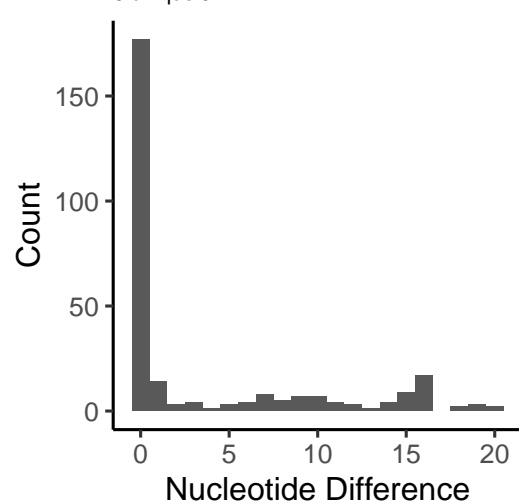
IGHV2–70*01

31 sequences assigned
15 (48.4%) exact matches, in which:
13 unique CDR3
4 unique J



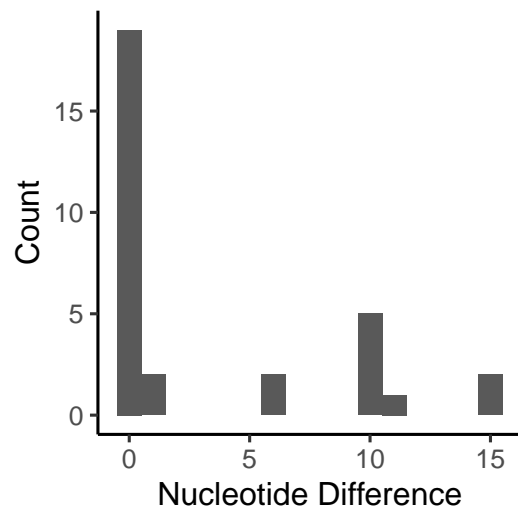
IGHV3–11*06

548 sequences assigned
177 (32.3%) exact matches, in which:
93 unique CDR3
6 unique J



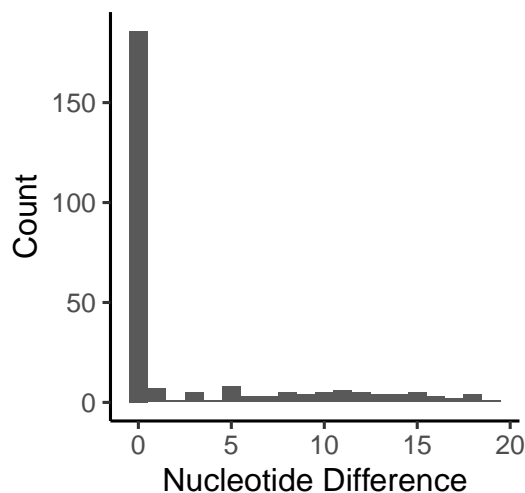
IGHV3-13*05

31 sequences assigned
19 (61.3%) exact matches, in which:
9 unique CDR3
3 unique J



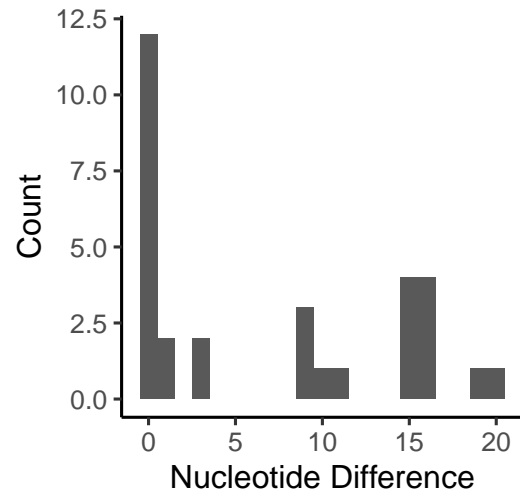
IGHV3-15*01_02

282 sequences assigned
186 (66%) exact matches, in which:
112 unique CDR3
6 unique J



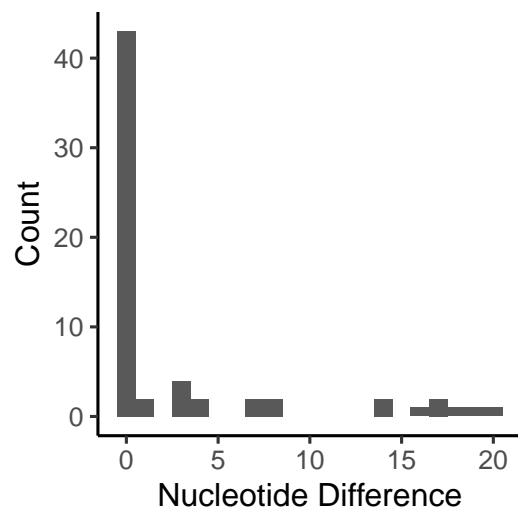
IGHV3-20*03_04

33 sequences assigned
12 (36.4%) exact matches, in which:
7 unique CDR3
4 unique J



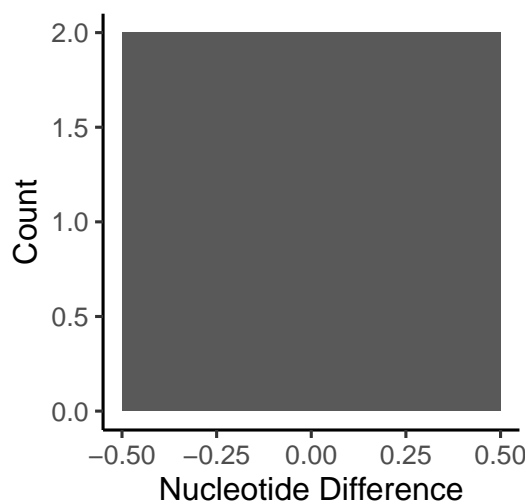
IGHV3-13*01_G290A_G2

67 sequences assigned
43 (64.2%) exact matches, in which:
22 unique CDR3
5 unique J



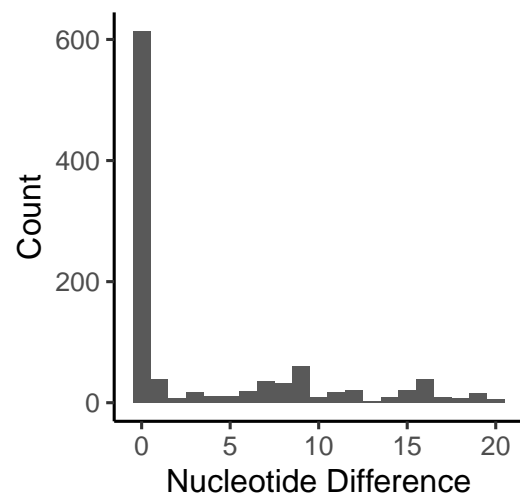
IGHV3-19*01

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



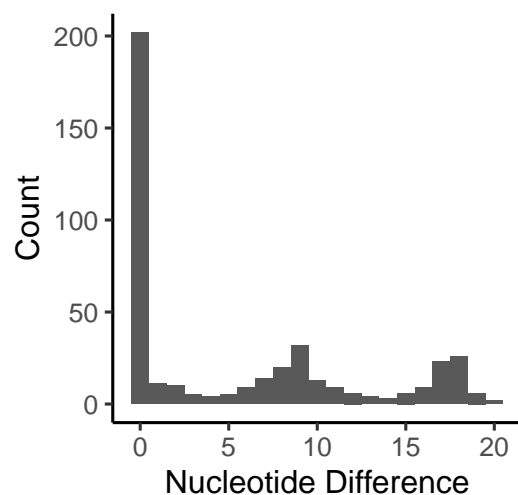
IGHV3-21*01_02

1274 sequences assigned
614 (48.2%) exact matches, in which:
324 unique CDR3
6 unique J



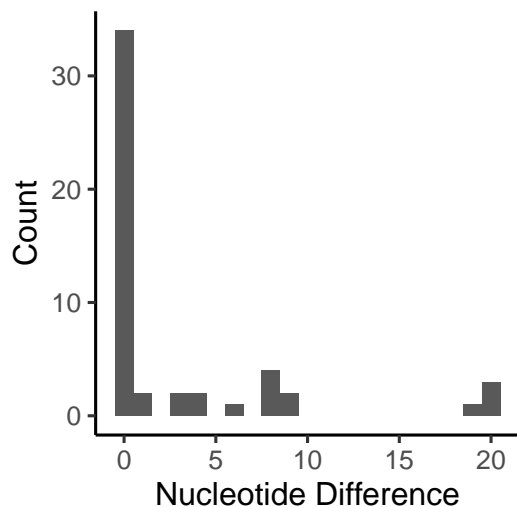
IGHV3-15*07

449 sequences assigned
202 (45%) exact matches, in which:
119 unique CDR3
6 unique J



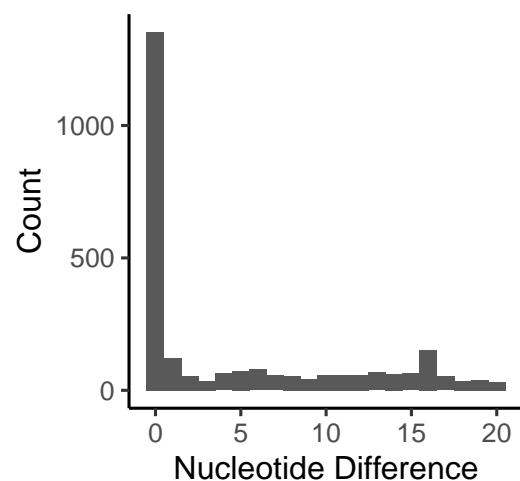
IGHV3-20*01_02

69 sequences assigned
34 (49.3%) exact matches, in which:
19 unique CDR3
5 unique J



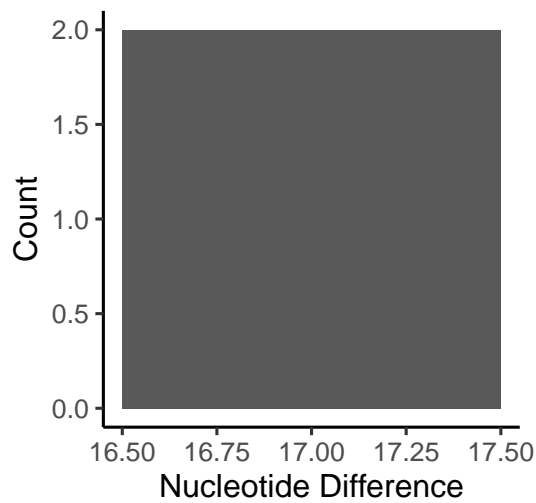
IGHV3-23*01_04

3089 sequences assigned
1353 (43.8%) exact matches, in which:
719 unique CDR3
6 unique J



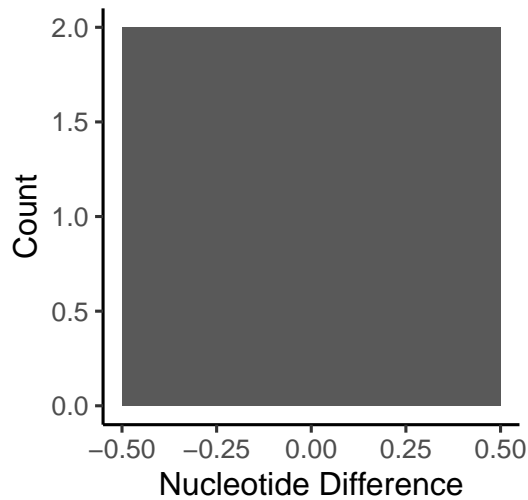
IGHV3-30-3*03

2 sequences assigned
No exact matches.



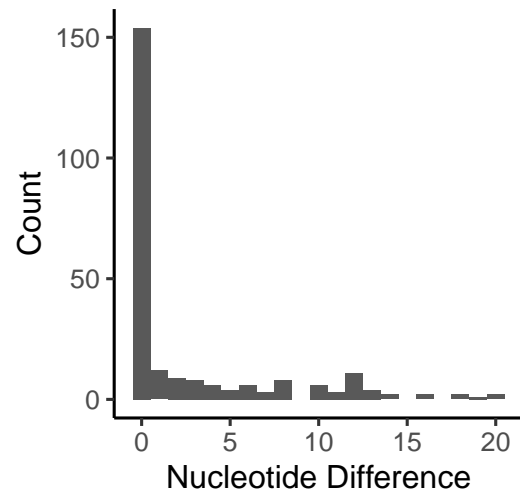
IGHV3-38-3*01

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



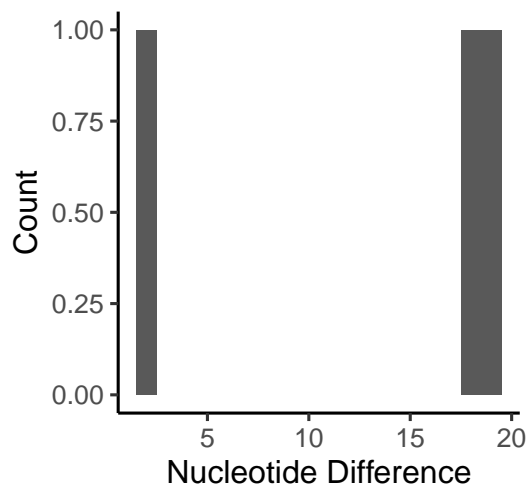
IGHV3-49*03_05

260 sequences assigned
154 (59.2%) exact matches, in which:
87 unique CDR3
6 unique J



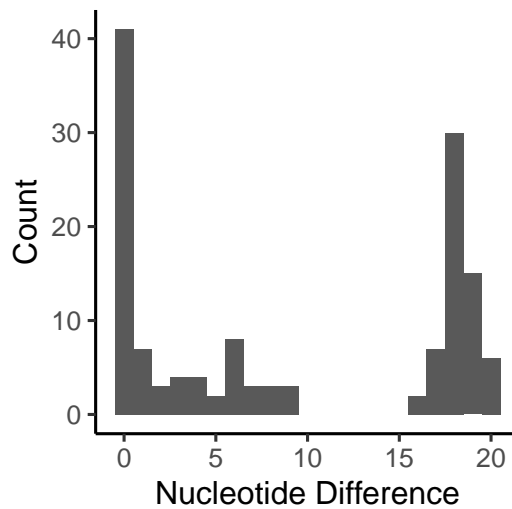
IGHV3-33*01

5 sequences assigned
No exact matches.



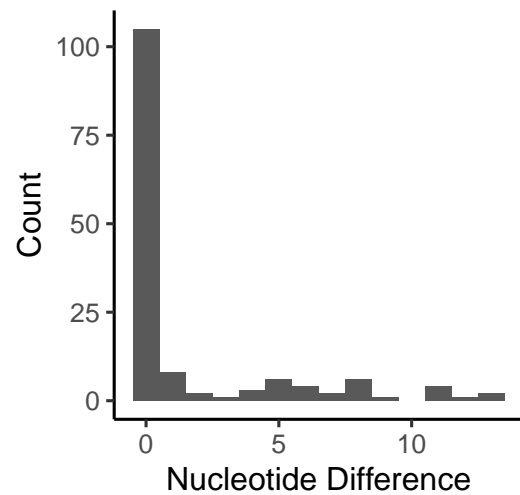
IGHV3-43*01

142 sequences assigned
41 (28.9%) exact matches, in which:
22 unique CDR3
4 unique J



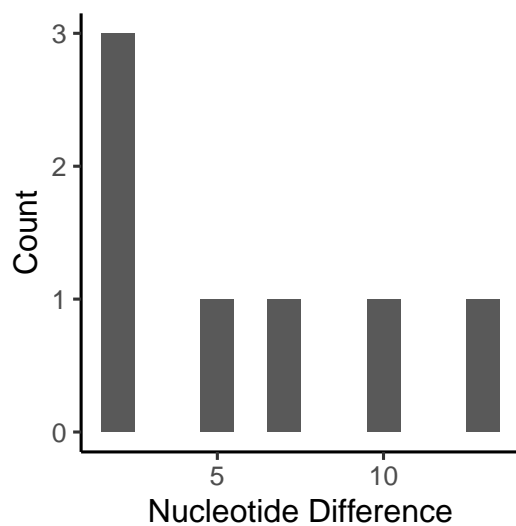
IGHV3-53*04

264 sequences assigned
105 (39.8%) exact matches, in which:
53 unique CDR3
5 unique J



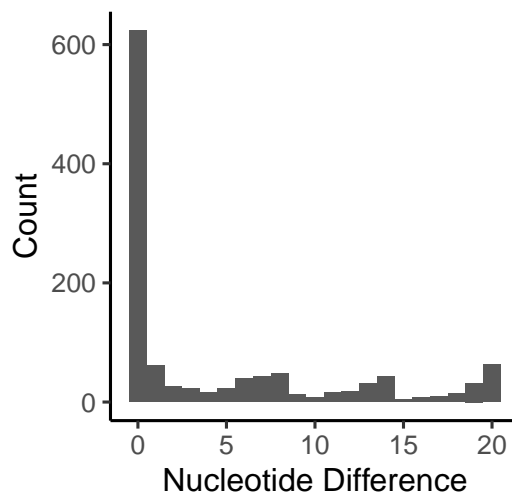
IGHV3-33*05

9 sequences assigned
No exact matches.



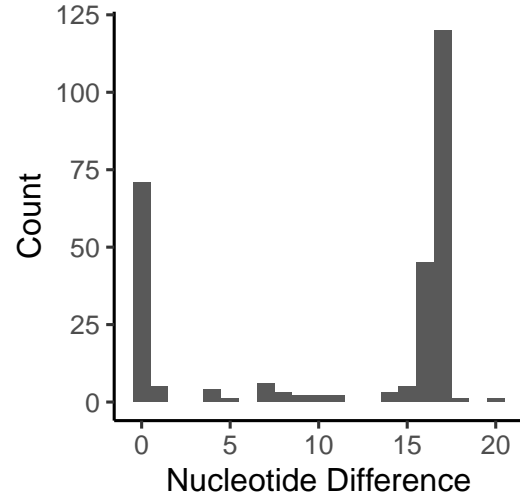
IGHV3-48*04

1308 sequences assigned
624 (47.7%) exact matches, in which:
325 unique CDR3
6 unique J



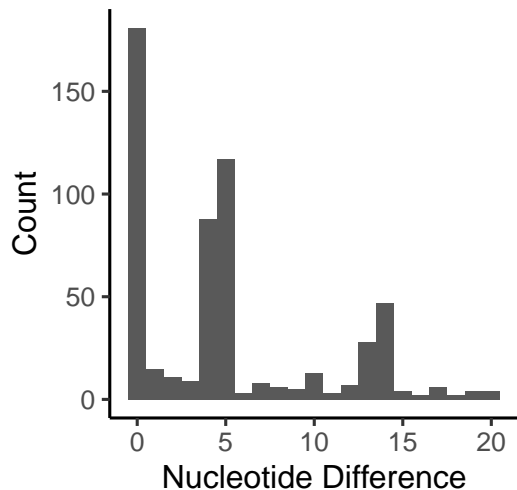
IGHV3-64*01

315 sequences assigned
71 (22.5%) exact matches, in which:
36 unique CDR3
6 unique J



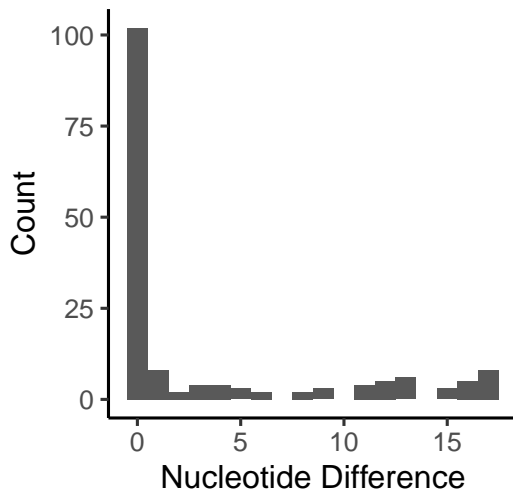
IGHV3–66*01

692 sequences assigned
181 (26.2%) exact matches, in which:
89 unique CDR3
5 unique J



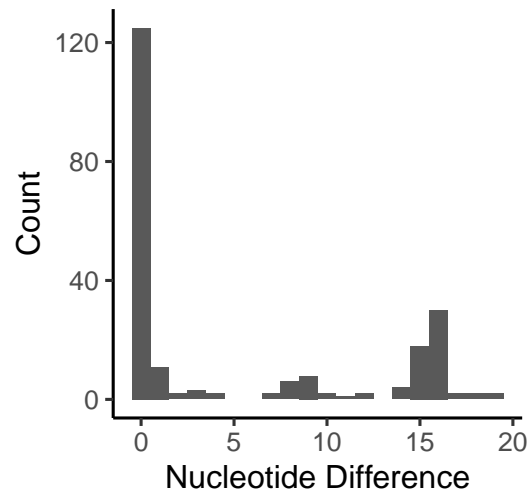
IGHV3–73*01_02

260 sequences assigned
102 (39.2%) exact matches, in which:
56 unique CDR3
6 unique J



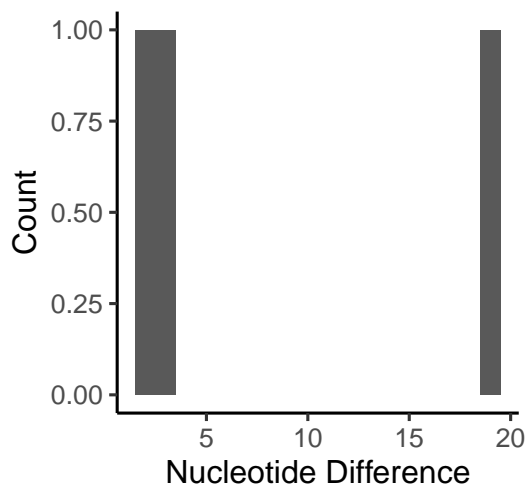
IGHV3–43D*03

251 sequences assigned
125 (49.8%) exact matches, in which:
67 unique CDR3
5 unique J



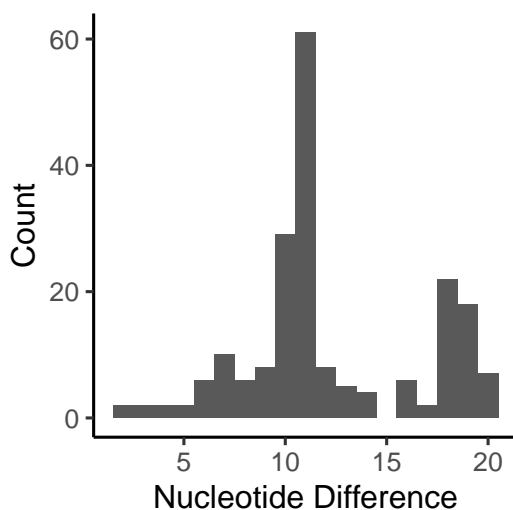
IGHV3–69–1*01

3 sequences assigned
No exact matches.



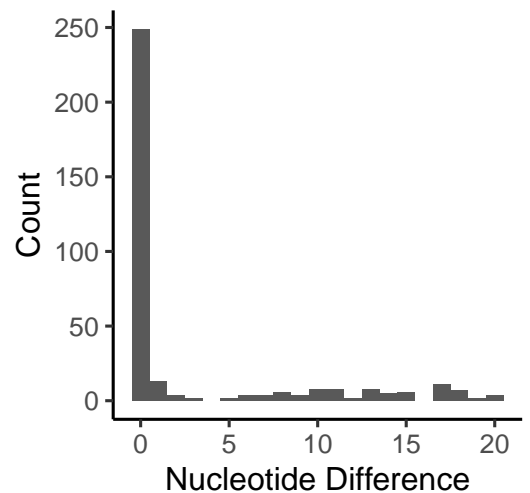
IGHV3–74*03

206 sequences assigned
No exact matches.



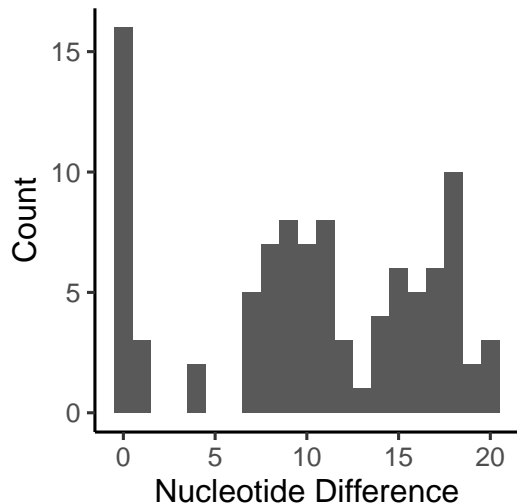
IGHV3–64D*06

464 sequences assigned
249 (53.7%) exact matches, in which:
118 unique CDR3
6 unique J



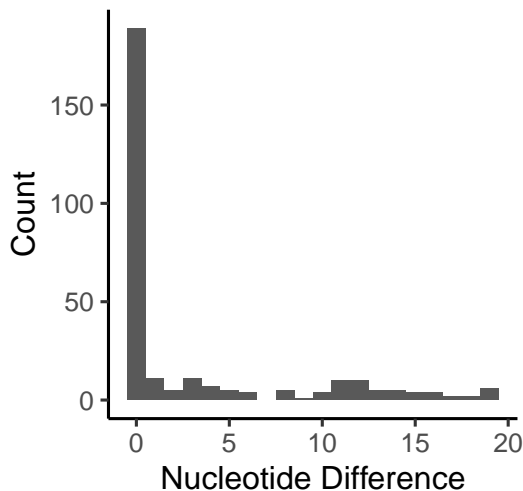
IGHV3–72*01

102 sequences assigned
16 (15.7%) exact matches, in which:
10 unique CDR3
4 unique J



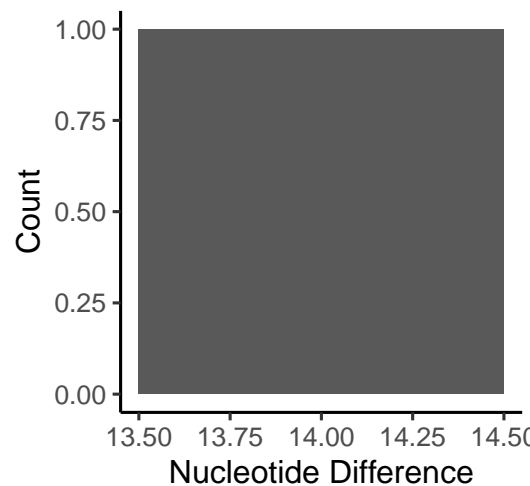
IGHV3–74*01_02

357 sequences assigned
189 (52.9%) exact matches, in which:
101 unique CDR3
5 unique J



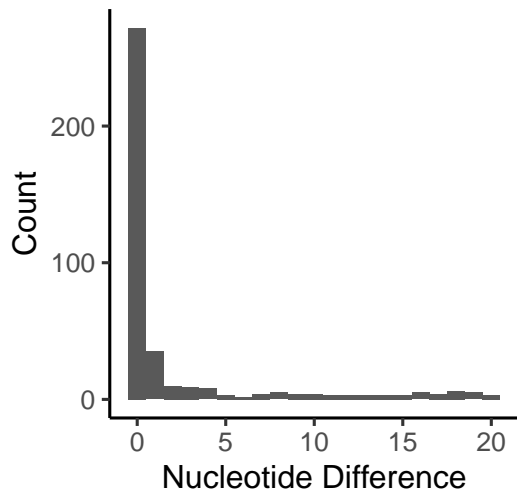
IGHV3–NL1*01

1 sequences assigned
No exact matches.



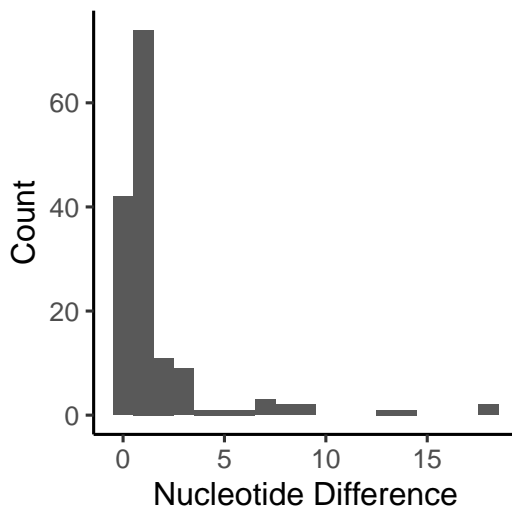
IGHV4-4*02_03

436 sequences assigned
272 (62.4%) exact matches, in which:
250 unique CDR3
6 unique J



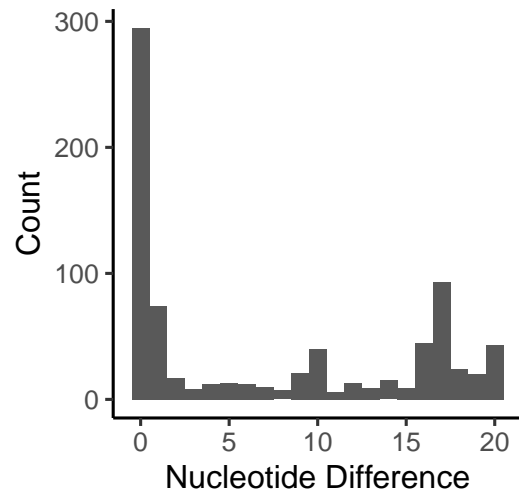
IGHV4-34*01_02_T300C

151 sequences assigned
42 (27.8%) exact matches, in which:
42 unique CDR3
4 unique J



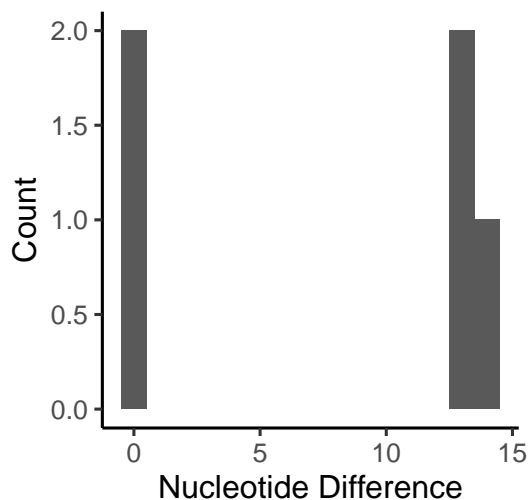
IGHV4-59*08

1885 sequences assigned
295 (15.6%) exact matches, in which:
282 unique CDR3
6 unique J



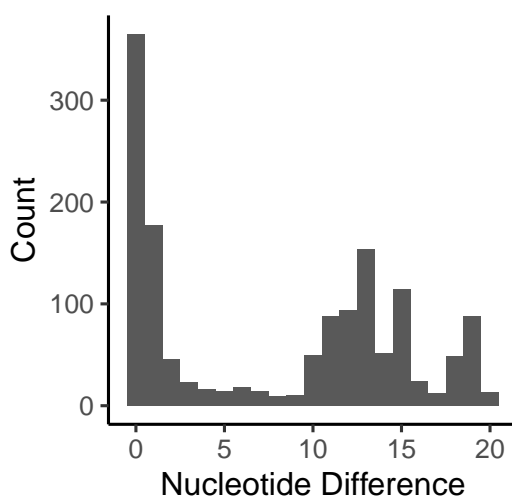
IGHV4-28*01_07

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
1 unique J



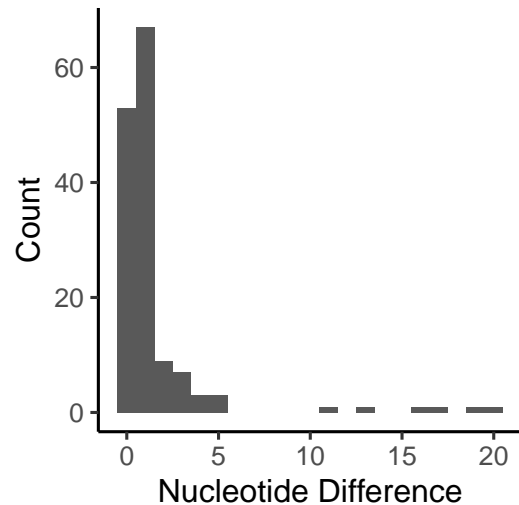
IGHV4-38-2*02

1682 sequences assigned
365 (21.7%) exact matches, in which:
352 unique CDR3
6 unique J



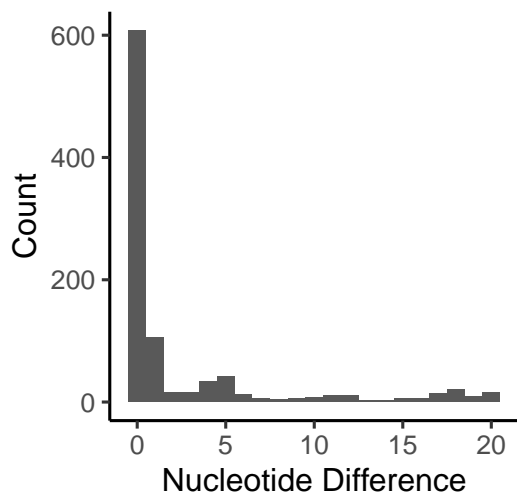
IGHV4-59*12

196 sequences assigned
53 (27%) exact matches, in which:
53 unique CDR3
5 unique J



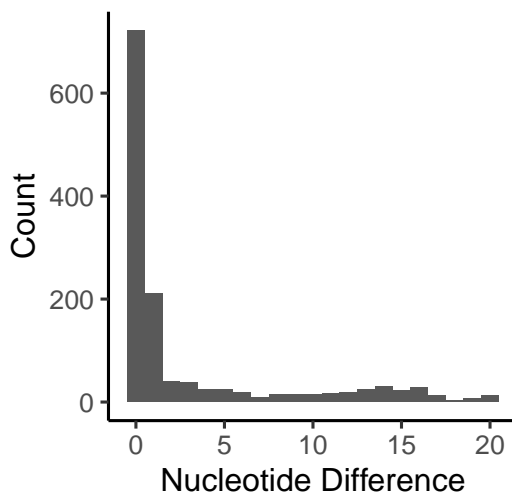
IGHV4-34*01_02

1002 sequences assigned
608 (60.7%) exact matches, in which:
534 unique CDR3
6 unique J



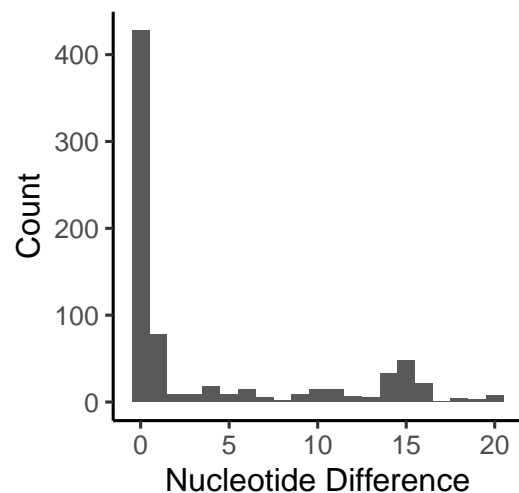
IGHV4-39*07

1610 sequences assigned
722 (44.8%) exact matches, in which:
688 unique CDR3
6 unique J



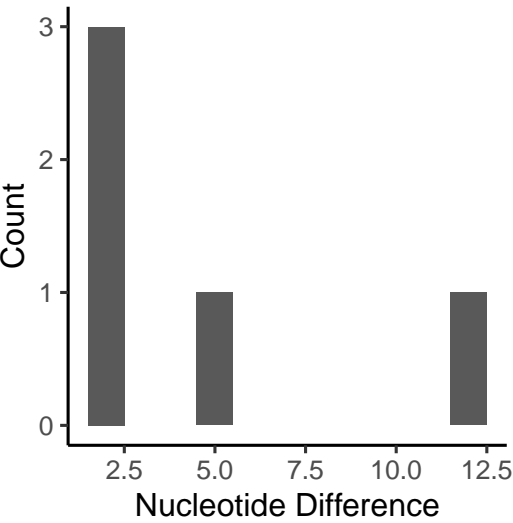
IGHV4-59*02_G88A

837 sequences assigned
428 (51.1%) exact matches, in which:
406 unique CDR3
6 unique J



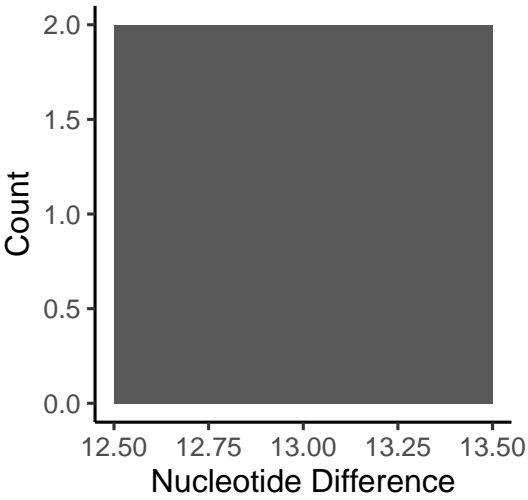
IGHV4-61*01

5 sequences assigned
No exact matches.



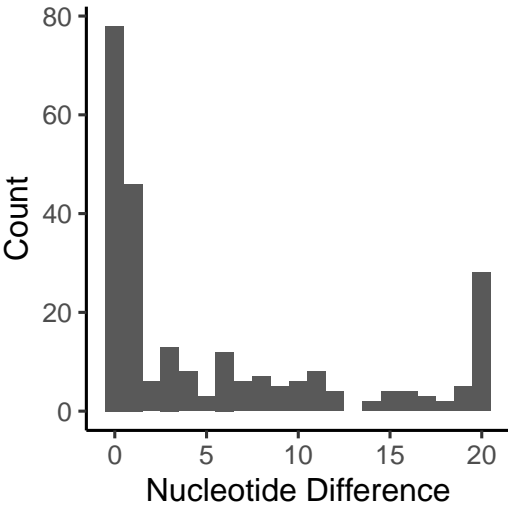
IGHV4/OR15-8*01

2 sequences assigned
No exact matches.



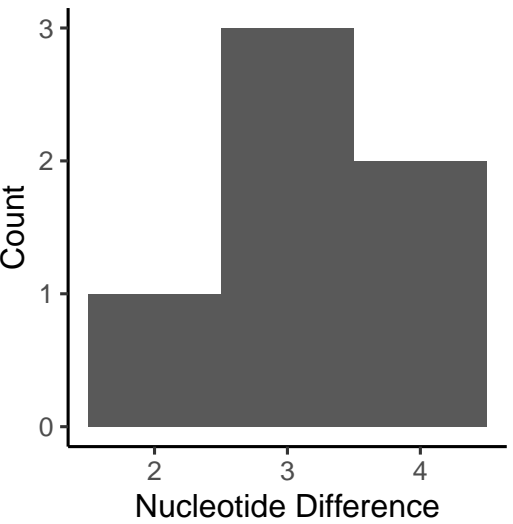
IGHV6-1*01_02

465 sequences assigned
78 (16.8%) exact matches, in which:
77 unique CDR3
5 unique J



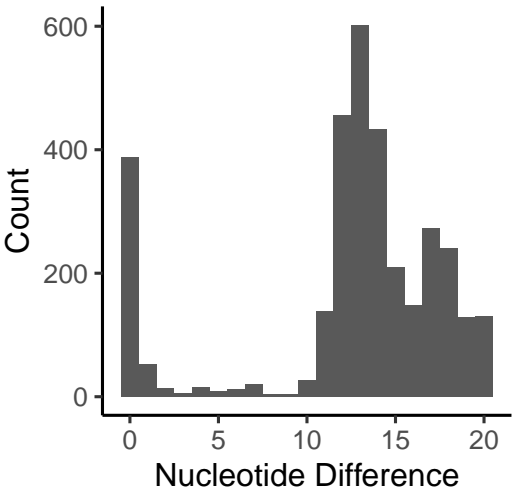
IGHV4-61*05

6 sequences assigned
No exact matches.



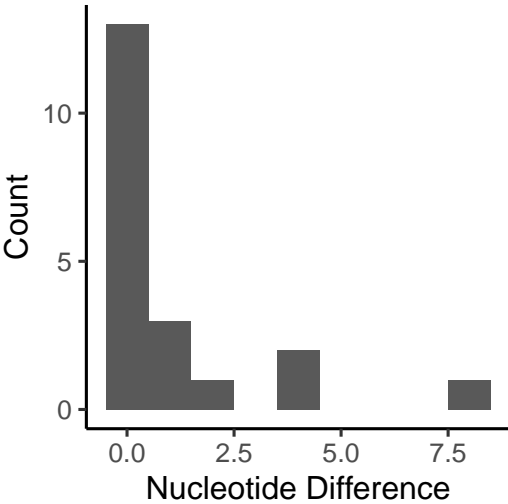
IGHV5-10-1*01_03

3458 sequences assigned
388 (11.2%) exact matches, in which:
248 unique CDR3
6 unique J



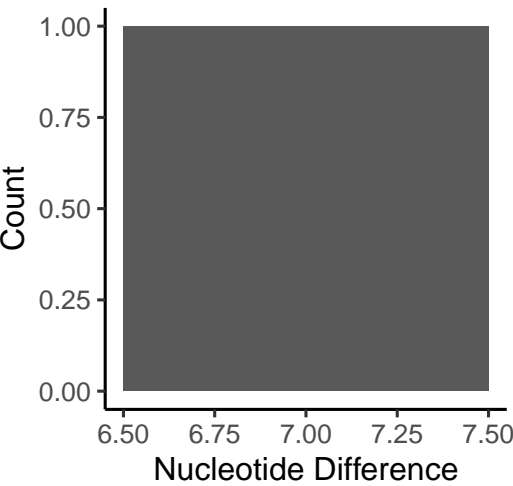
IGHV7-4-1*01

20 sequences assigned
13 (65%) exact matches, in which:
12 unique CDR3
3 unique J



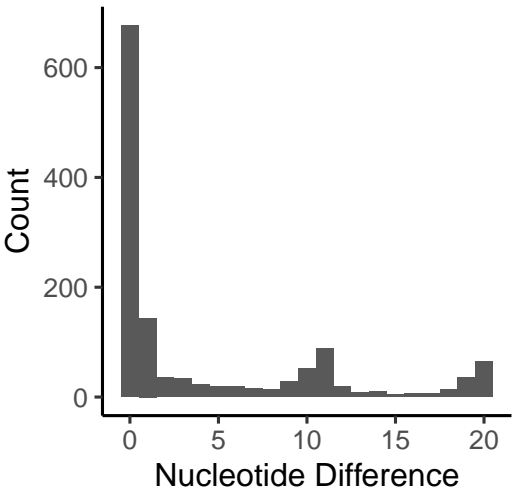
IGHV4-61*08

1 sequences assigned
No exact matches.



IGHV5-51*07_A128G

1383 sequences assigned
677 (49%) exact matches, in which:
421 unique CDR3
6 unique J





Warning – no inferred sequences found.