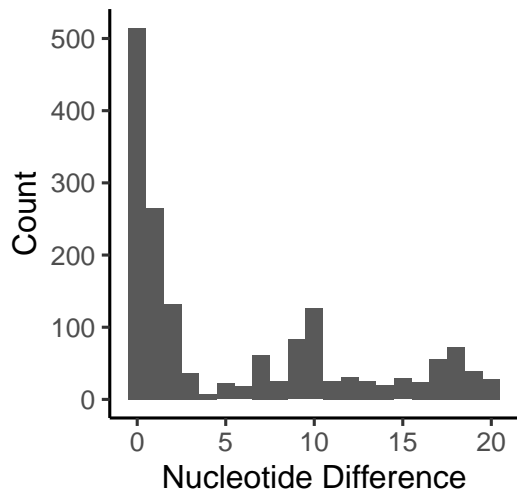


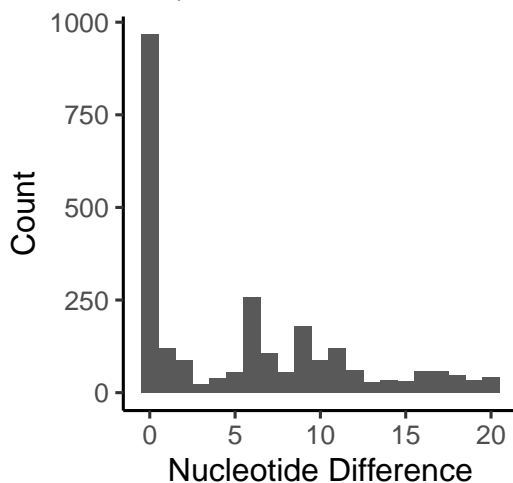
IGHV1-2*02

1881 sequences assigned
515 (27.4%) exact matches, in which:
490 unique CDR3
6 unique J



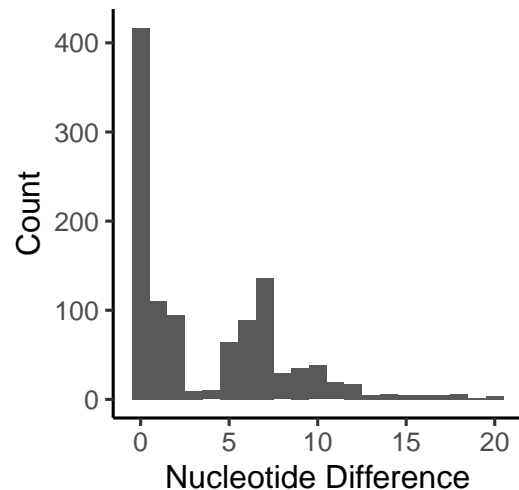
IGHV1-18*01

2823 sequences assigned
967 (34.3%) exact matches, in which:
931 unique CDR3
6 unique J



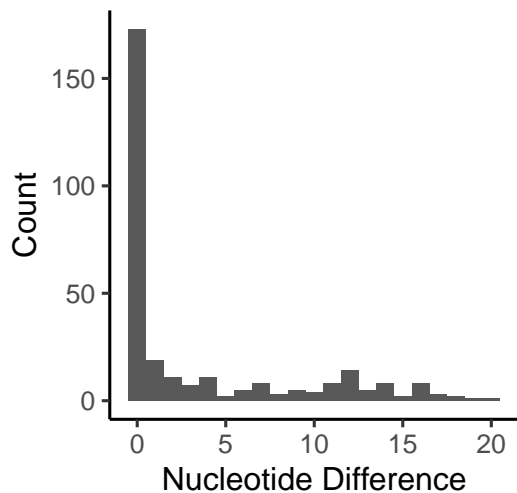
IGHV1-46*01

1119 sequences assigned
417 (37.3%) exact matches, in which:
409 unique CDR3
6 unique J



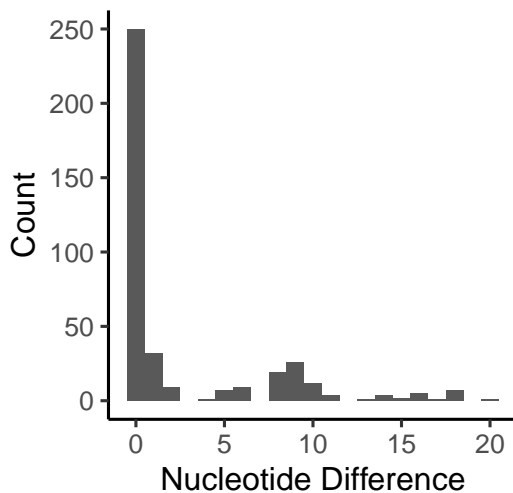
IGHV1-3*01_05

342 sequences assigned
173 (50.6%) exact matches, in which:
167 unique CDR3
6 unique J



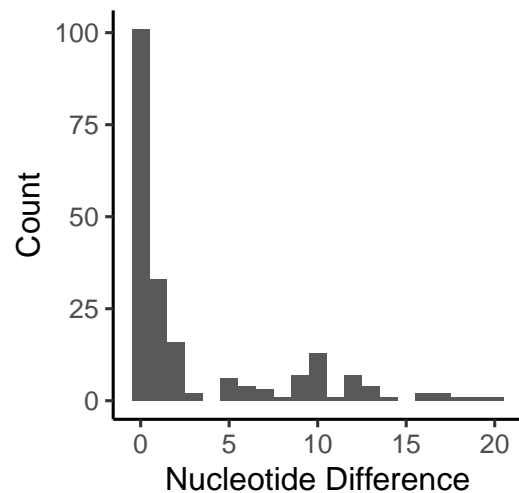
IGHV1-24*01

393 sequences assigned
250 (63.6%) exact matches, in which:
234 unique CDR3
6 unique J



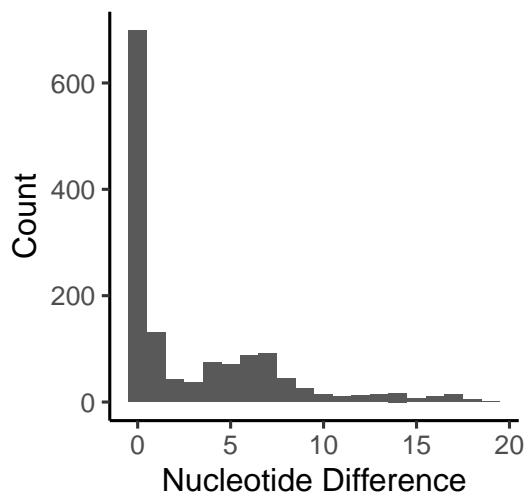
IGHV1-46*03

213 sequences assigned
101 (47.4%) exact matches, in which:
100 unique CDR3
5 unique J



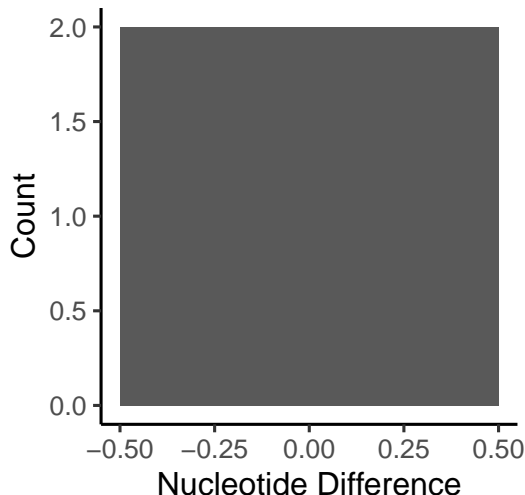
IGHV1-8*01

1418 sequences assigned
699 (49.3%) exact matches, in which:
677 unique CDR3
6 unique J



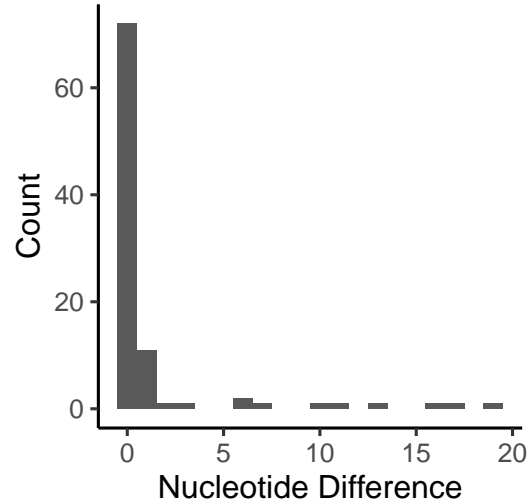
IGHV1-45*02

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



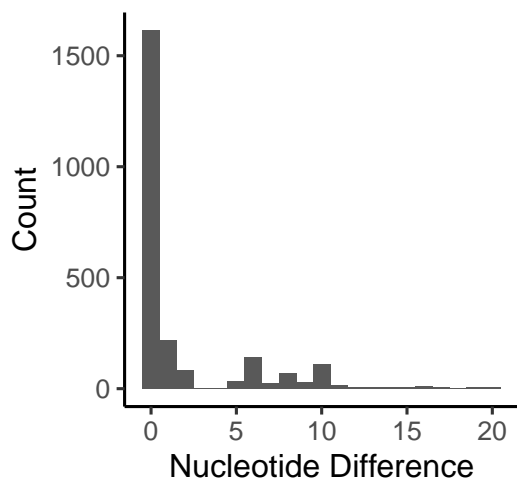
IGHV1-58*01_03

95 sequences assigned
72 (75.8%) exact matches, in which:
70 unique CDR3
5 unique J



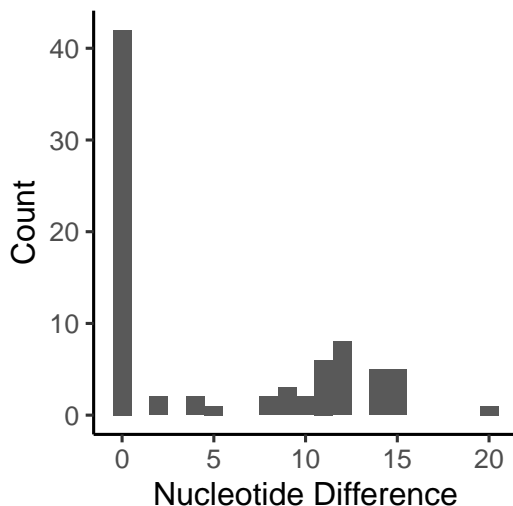
IGHV1-69*01_12_13

2555 sequences assigned
1614 (63.2%) exact matches, in which:
1577 unique CDR3
6 unique J



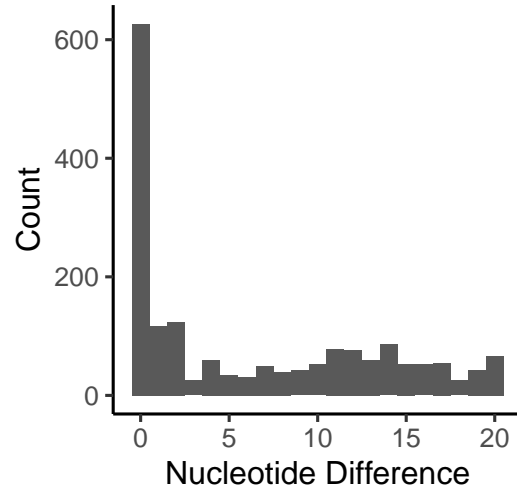
IGHV2-26*01

91 sequences assigned
42 (46.2%) exact matches, in which:
42 unique CDR3
5 unique J



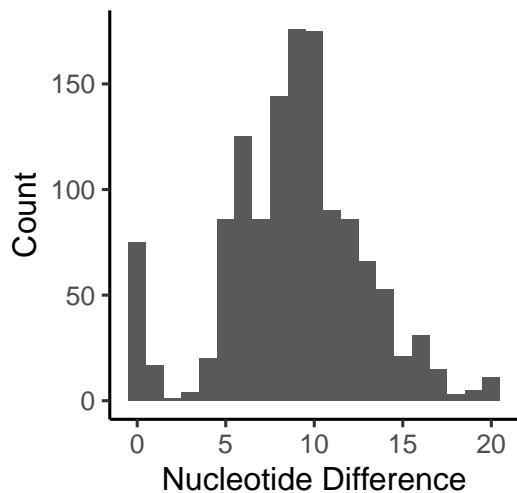
IGHV3-7*01

2508 sequences assigned
627 (25%) exact matches, in which:
389 unique CDR3
6 unique J



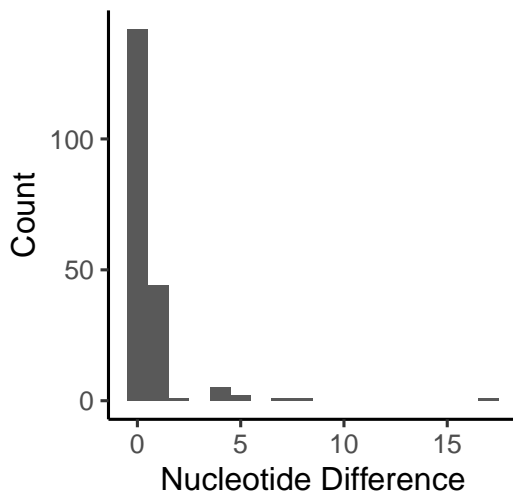
IGHV2-5*01

1310 sequences assigned
75 (5.7%) exact matches, in which:
72 unique CDR3
6 unique J



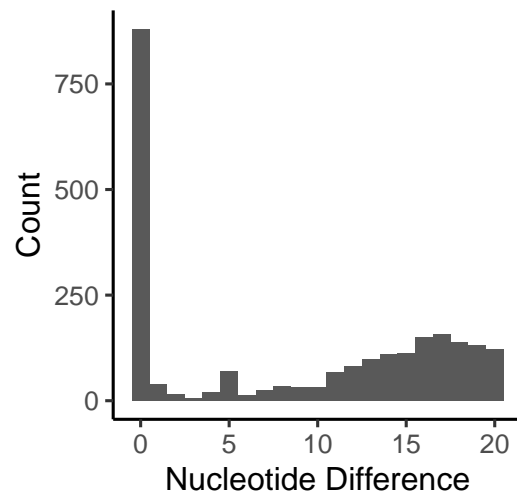
IGHV2-70*01

201 sequences assigned
142 (70.6%) exact matches, in which:
122 unique CDR3
5 unique J



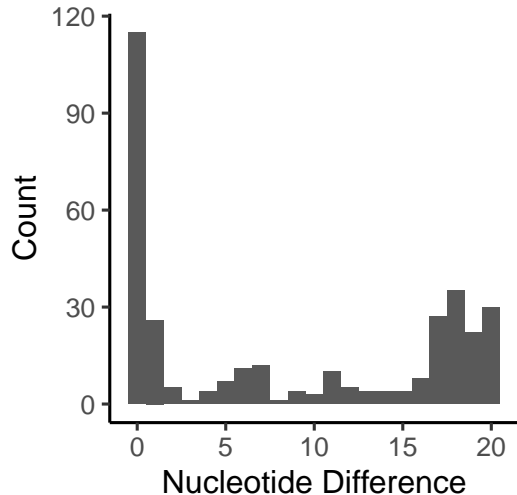
IGHV3-9*01

2999 sequences assigned
880 (29.3%) exact matches, in which:
515 unique CDR3
6 unique J



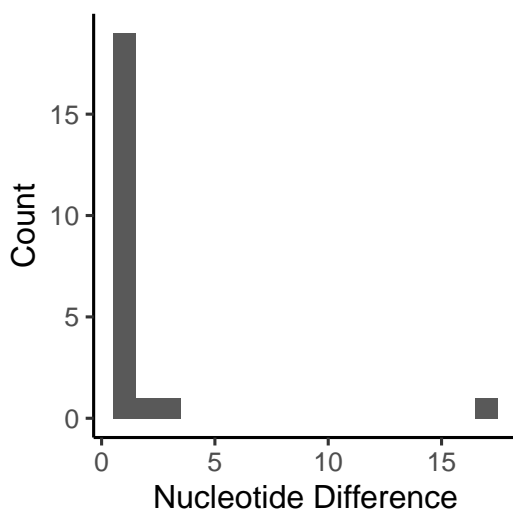
IGHV2-5*02

425 sequences assigned
115 (27.1%) exact matches, in which:
108 unique CDR3
5 unique J



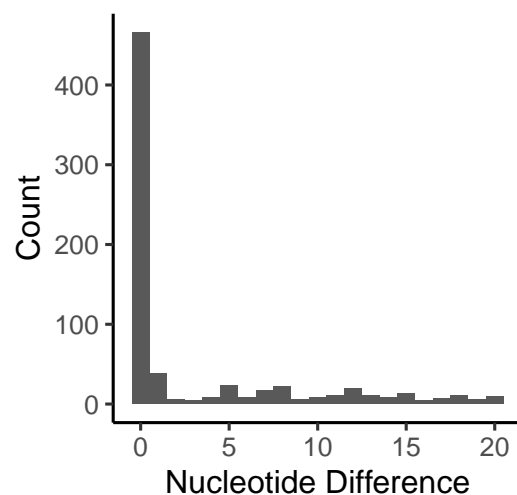
IGHV2-70*12

23 sequences assigned
No exact matches.



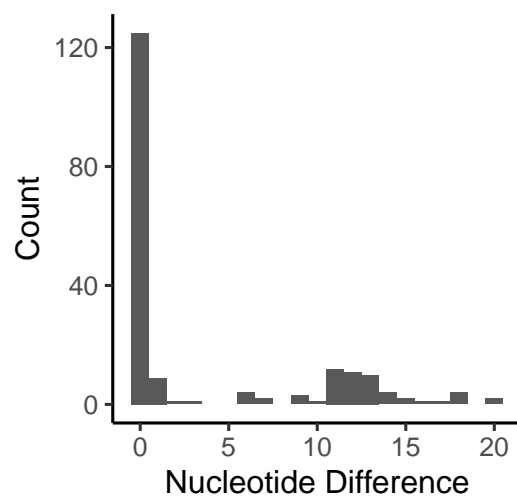
IGHV3-11*01

763 sequences assigned
466 (61.1%) exact matches, in which:
292 unique CDR3
6 unique J



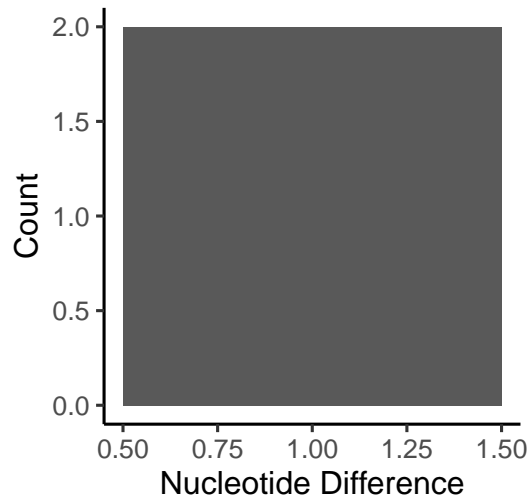
IGHV3-13*01

216 sequences assigned
125 (57.9%) exact matches, in which:
68 unique CDR3
5 unique J



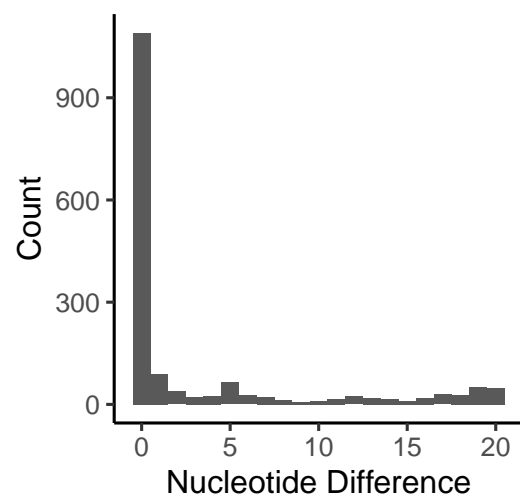
IGHV3-19*01

2 sequences assigned
No exact matches.



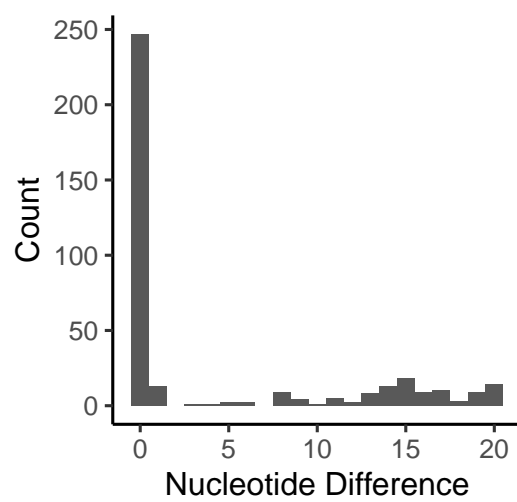
IGHV3-21*01_02

1920 sequences assigned
1091 (56.8%) exact matches, in which:
667 unique CDR3
6 unique J



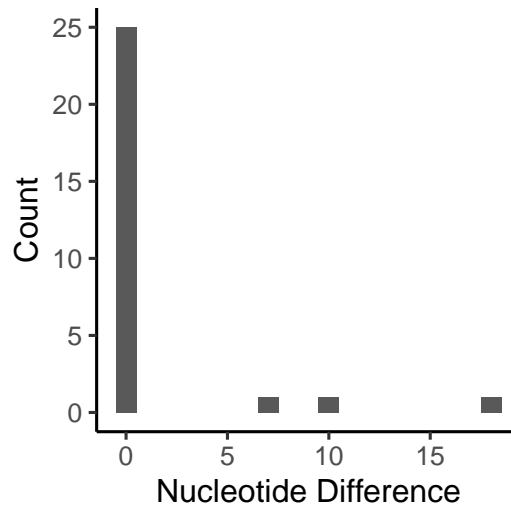
IGHV3-15*07

423 sequences assigned
247 (58.4%) exact matches, in which:
166 unique CDR3
5 unique J



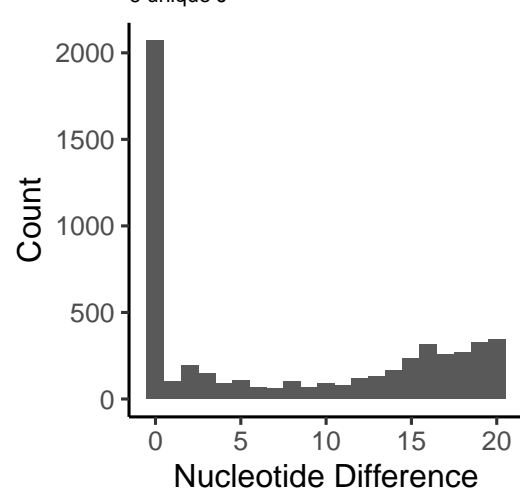
IGHV3-20*01_02

29 sequences assigned
25 (86.2%) exact matches, in which:
15 unique CDR3
4 unique J



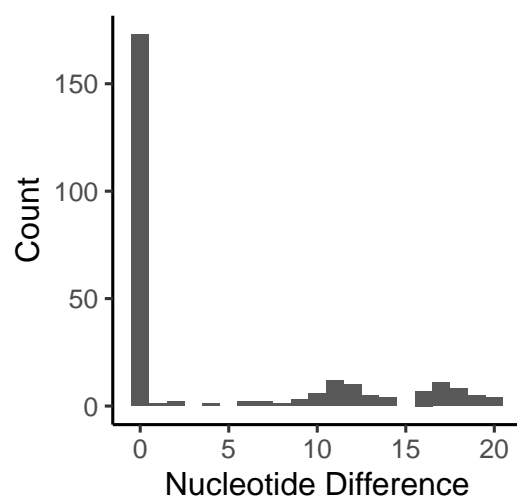
IGHV3-23*01_04

7071 sequences assigned
2070 (29.3%) exact matches, in which:
1217 unique CDR3
6 unique J



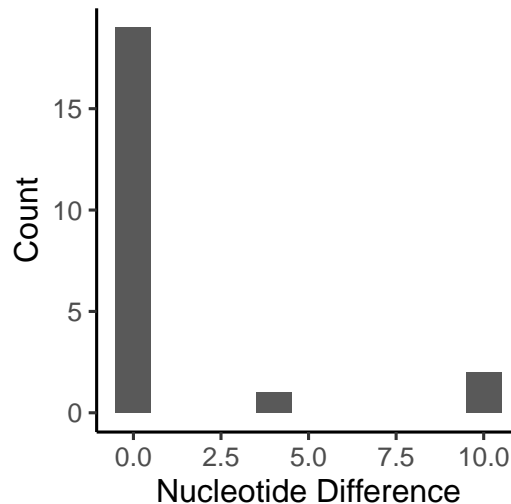
IGHV3-15*01_02

290 sequences assigned
173 (59.7%) exact matches, in which:
120 unique CDR3
6 unique J



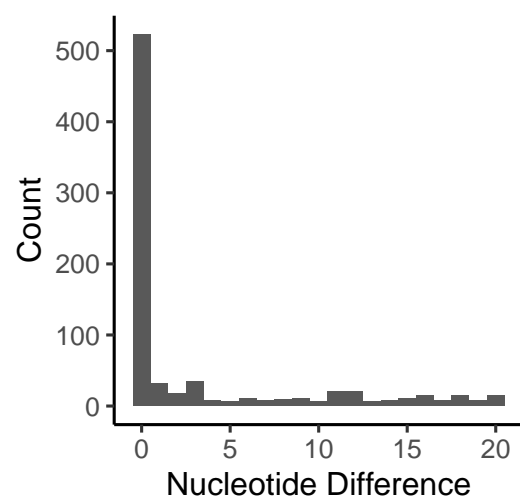
IGHV3-20*03_04

25 sequences assigned
19 (76%) exact matches, in which:
12 unique CDR3
3 unique J



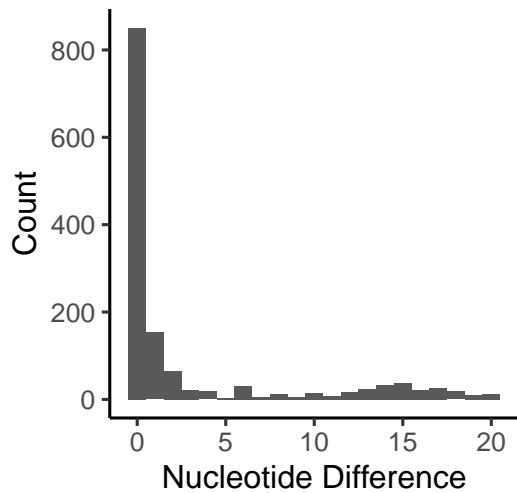
IGHV3-30-3*01

899 sequences assigned
523 (58.2%) exact matches, in which:
323 unique CDR3
6 unique J



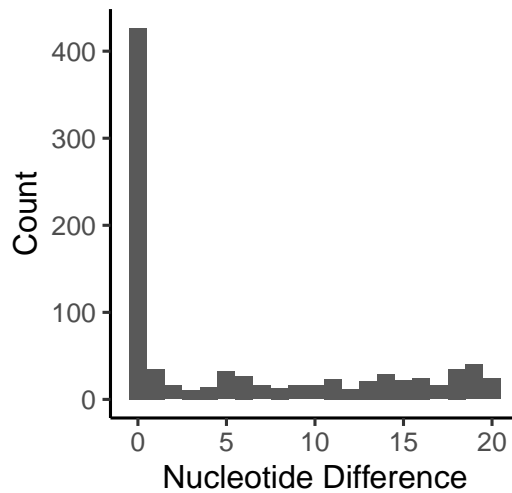
IGHV3–33*01

1515 sequences assigned
851 (56.2%) exact matches, in which:
548 unique CDR3
6 unique J



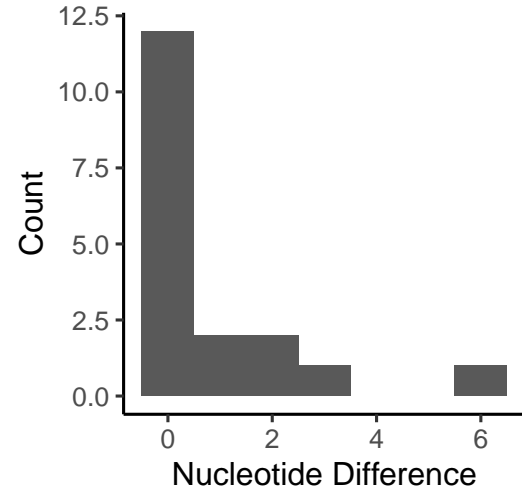
IGHV3–48*02

1018 sequences assigned
427 (41.9%) exact matches, in which:
252 unique CDR3
6 unique J



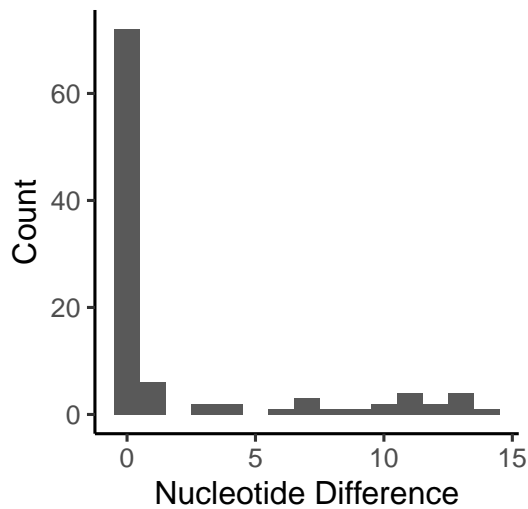
IGHV3–64*02_07

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



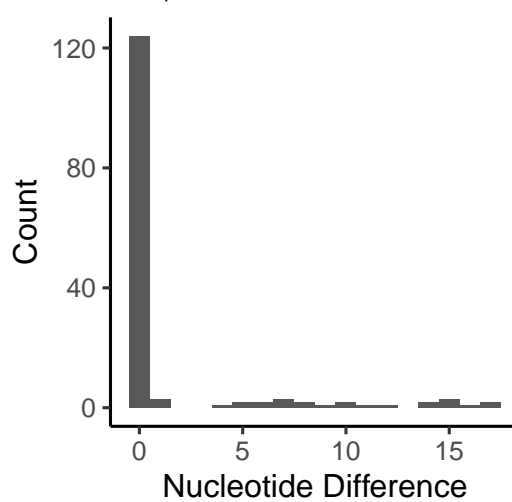
IGHV3–43*01

112 sequences assigned
72 (64.3%) exact matches, in which:
43 unique CDR3
5 unique J



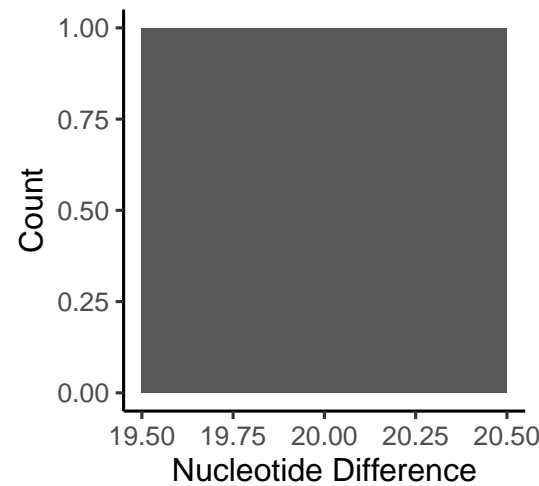
IGHV3–49*03_05

155 sequences assigned
124 (80%) exact matches, in which:
76 unique CDR3
5 unique J



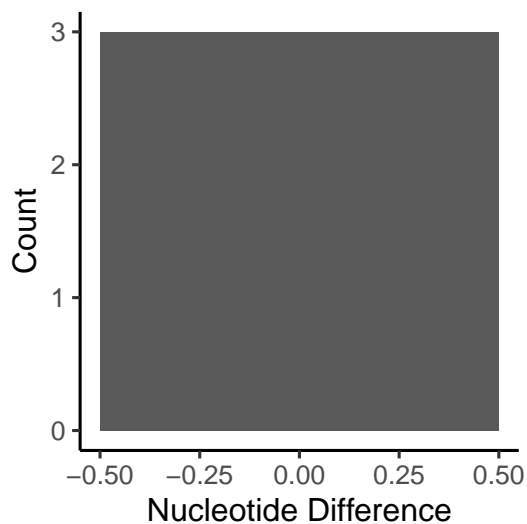
IGHV3–66*01

3 sequences assigned
No exact matches.



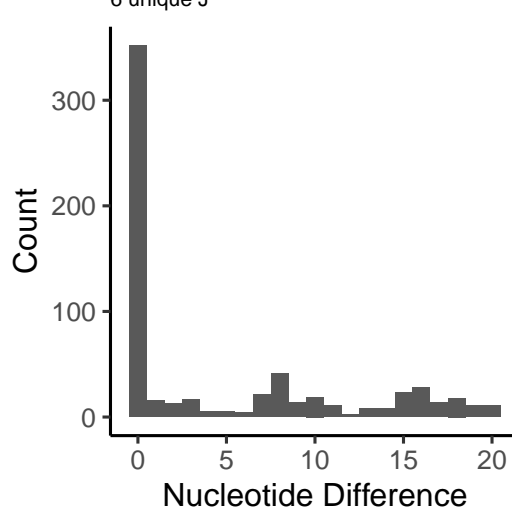
IGHV3–47*02

3 sequences assigned
3 (100%) exact matches, in which:
2 unique CDR3
1 unique J



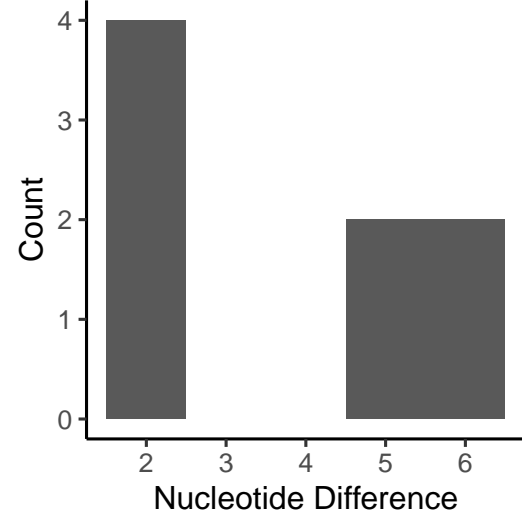
IGHV3–53*01_02

913 sequences assigned
352 (38.6%) exact matches, in which:
221 unique CDR3
6 unique J



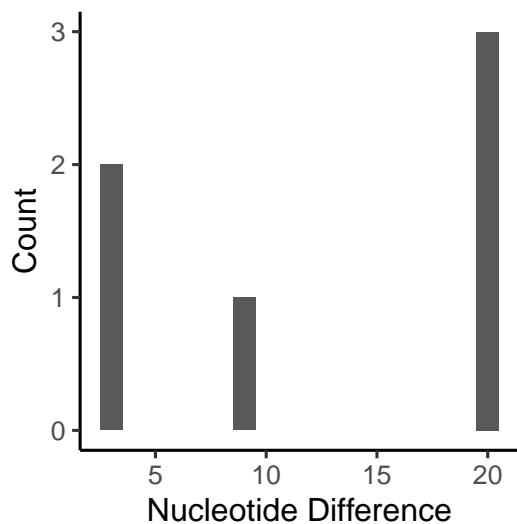
IGHV3–66*03

8 sequences assigned
No exact matches.



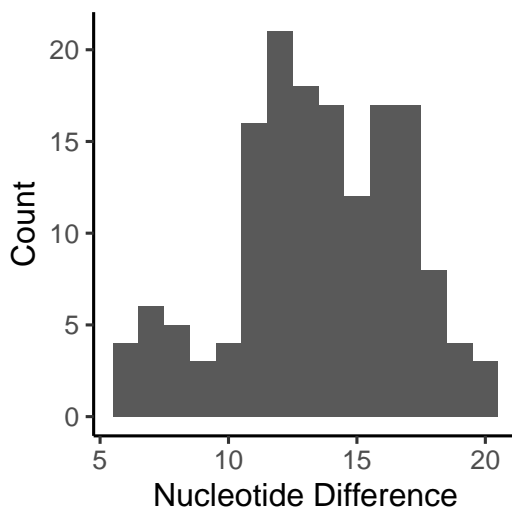
IGHV3-69-1*01

10 sequences assigned
No exact matches.



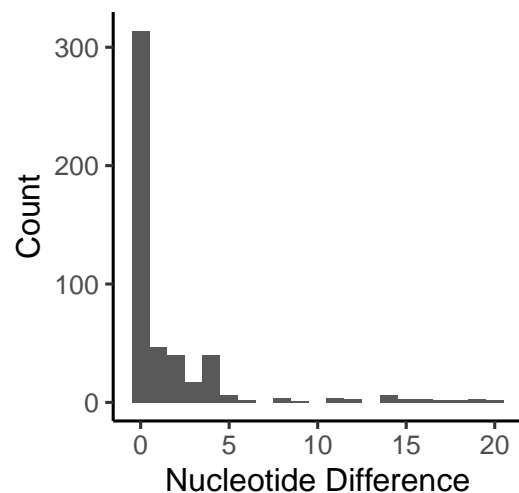
IGHV3-74*03

222 sequences assigned
No exact matches.



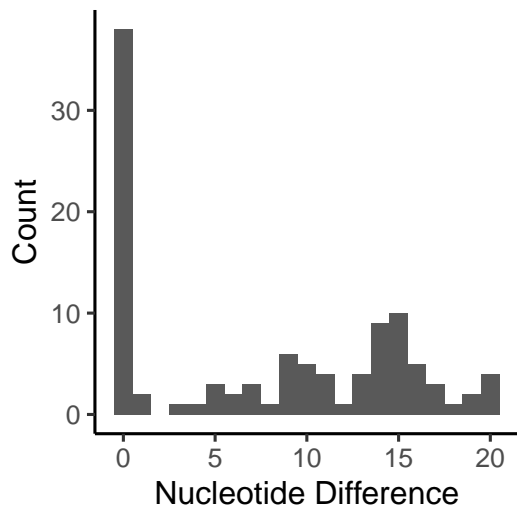
IGHV4-4*02_03

521 sequences assigned
314 (60.3%) exact matches, in which:
245 unique CDR3
6 unique J



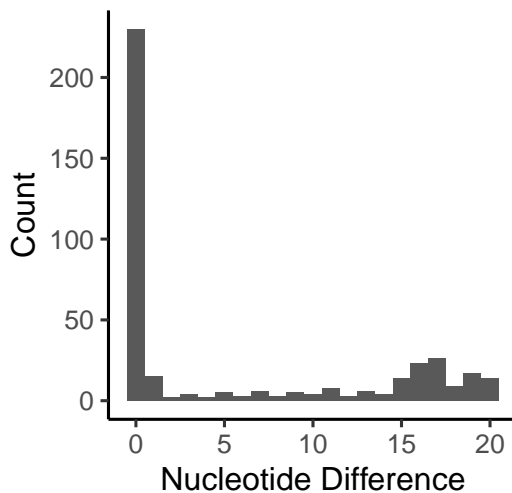
IGHV3-72*01

120 sequences assigned
38 (31.7%) exact matches, in which:
21 unique CDR3
5 unique J



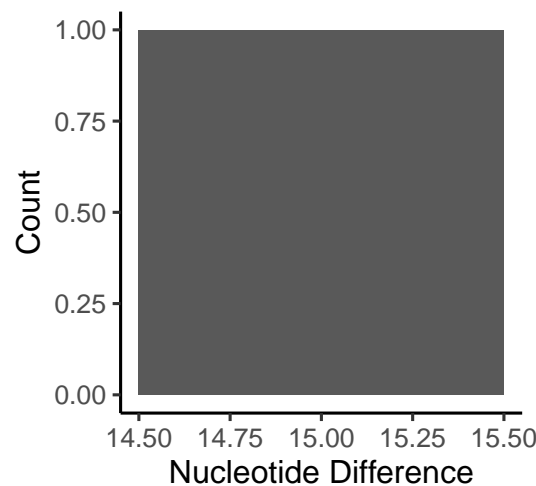
IGHV3-74*01_02

472 sequences assigned
230 (48.7%) exact matches, in which:
133 unique CDR3
6 unique J



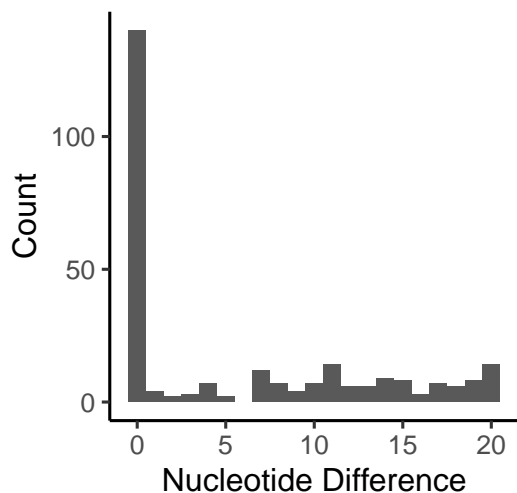
IGHV4-28*03

1 sequences assigned
No exact matches.



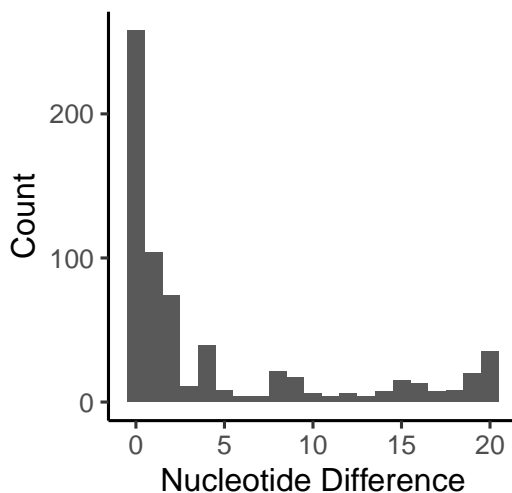
IGHV3-73*01_02

287 sequences assigned
140 (48.8%) exact matches, in which:
84 unique CDR3
5 unique J



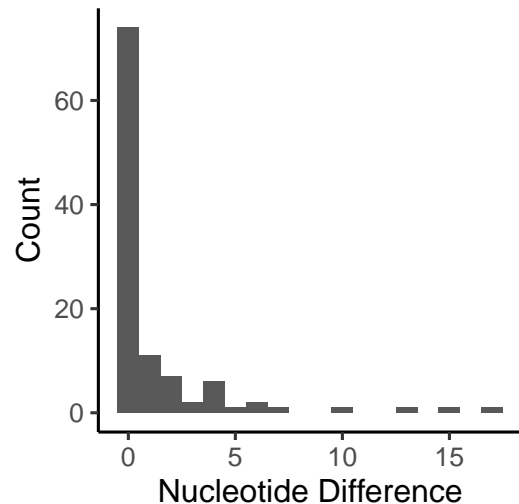
IGHV4-4*07

980 sequences assigned
258 (26.3%) exact matches, in which:
242 unique CDR3
6 unique J



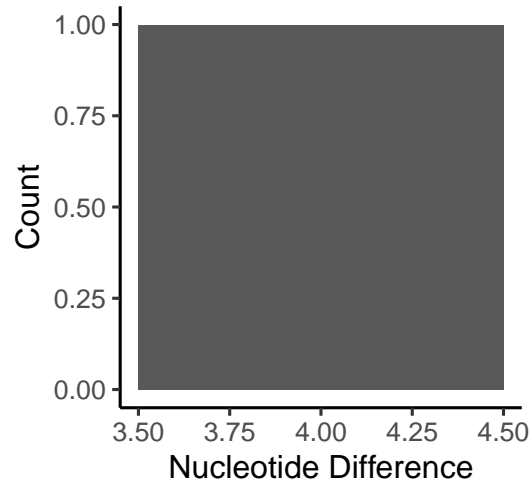
IGHV4-30-2*01

113 sequences assigned
74 (65.5%) exact matches, in which:
52 unique CDR3
5 unique J



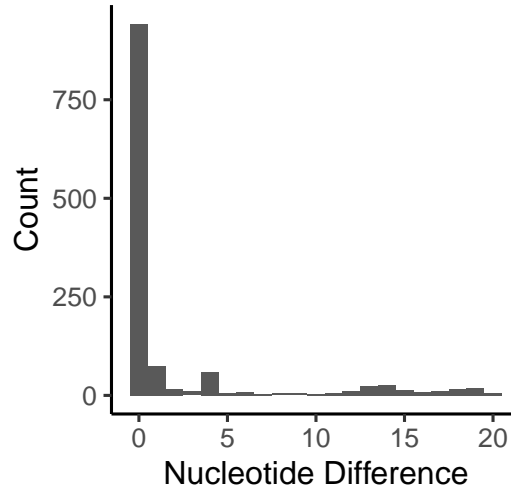
IGHV4-30-4*01

3 sequences assigned
No exact matches.



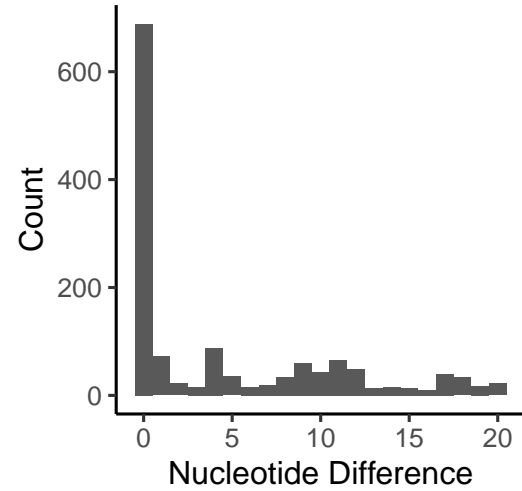
IGHV4-39*02_C258G

1574 sequences assigned
943 (59.9%) exact matches, in which:
848 unique CDR3
6 unique J



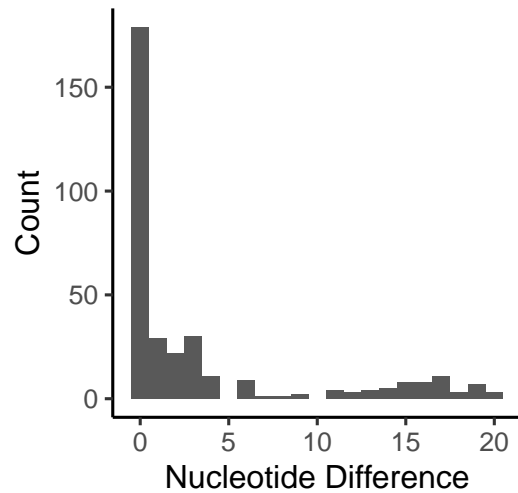
IGHV4-59*02_G88A

1528 sequences assigned
689 (45.1%) exact matches, in which:
652 unique CDR3
6 unique J



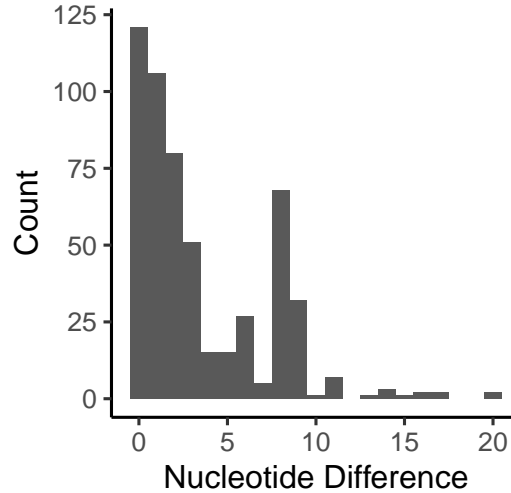
IGHV4-31*02

621 sequences assigned
179 (28.8%) exact matches, in which:
173 unique CDR3
6 unique J



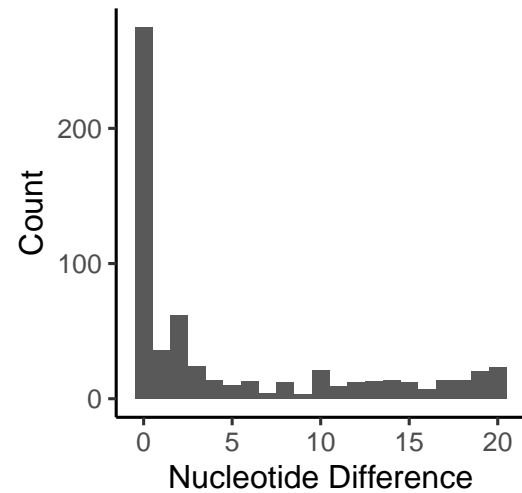
IGHV4-39*02_C258G_A2

552 sequences assigned
121 (21.9%) exact matches, in which:
120 unique CDR3
5 unique J



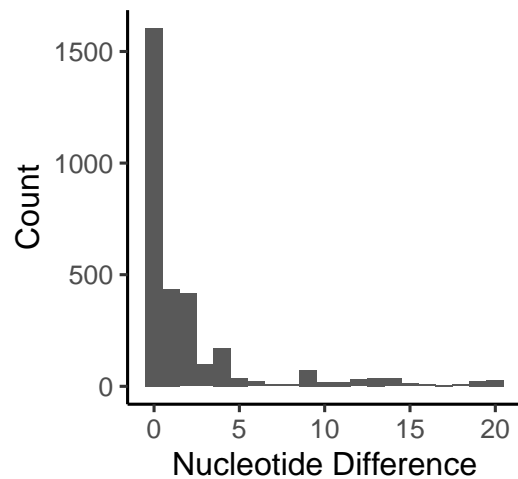
IGHV4-61*01

773 sequences assigned
275 (35.6%) exact matches, in which:
267 unique CDR3
6 unique J



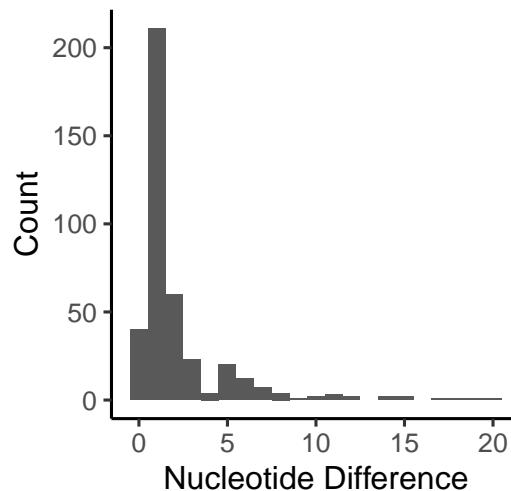
IGHV4-34*01_02

3198 sequences assigned
1605 (50.2%) exact matches, in which:
1172 unique CDR3
6 unique J



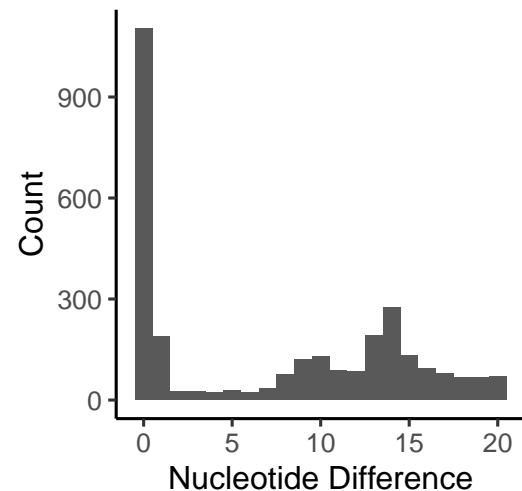
IGHV4-59*12

415 sequences assigned
40 (9.6%) exact matches, in which:
40 unique CDR3
6 unique J



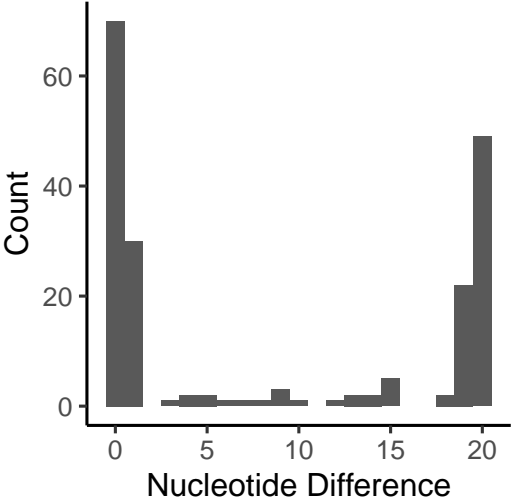
IGHV5-51*07_A128G

3348 sequences assigned
1104 (33%) exact matches, in which:
649 unique CDR3
6 unique J



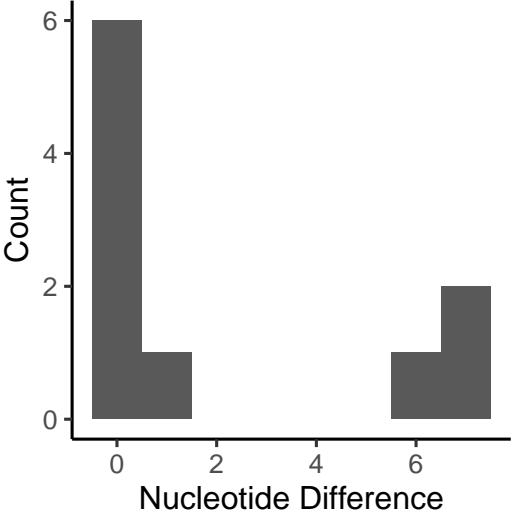
IGHV6-1*01_02

204 sequences assigned
70 (34.3%) exact matches, in which:
68 unique CDR3
5 unique J



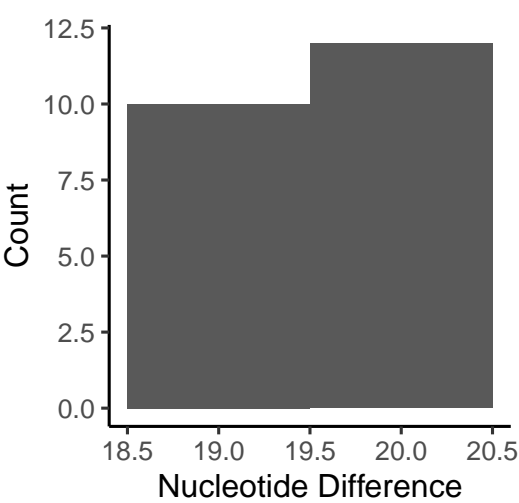
IGHV7-4-1*01

10 sequences assigned
6 (60%) exact matches, in which:
6 unique CDR3
4 unique J



IGHV7-4-1*02

28 sequences assigned
No exact matches.





Warning – no inferred sequences found.