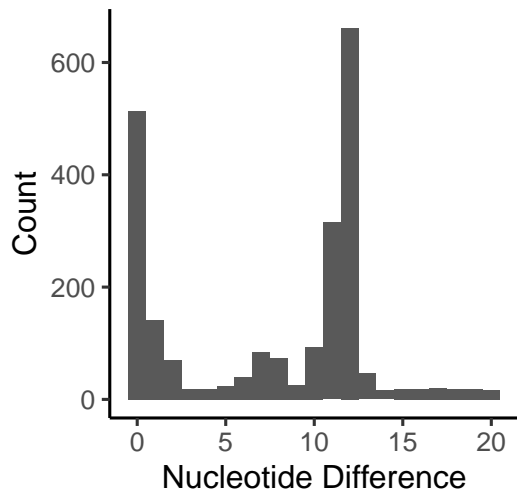


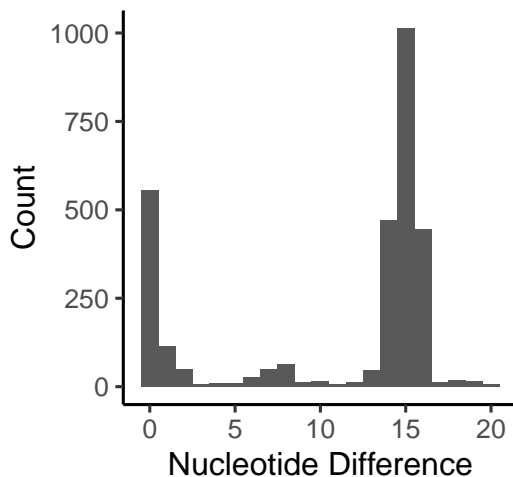
IGHV1-2*02

2491 sequences assigned
513 (20.6%) exact matches, in which:
486 unique CDR3
6 unique J



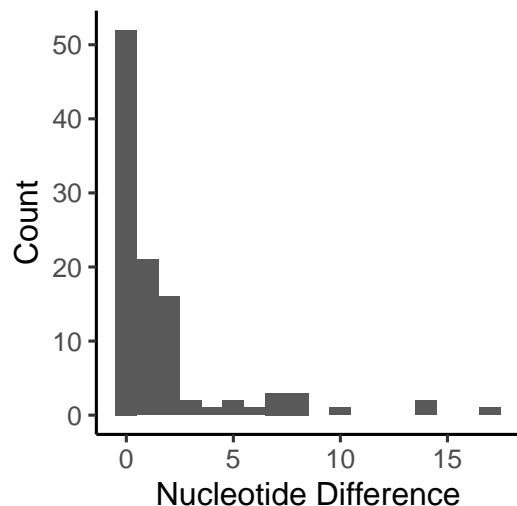
IGHV1-18*04

3106 sequences assigned
556 (17.9%) exact matches, in which:
525 unique CDR3
6 unique J



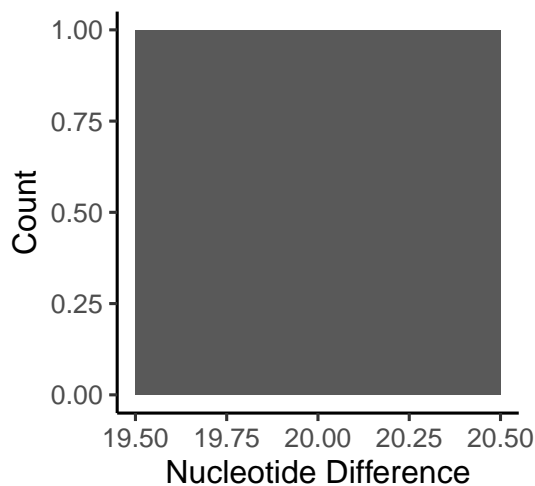
IGHV1-46*03

124 sequences assigned
52 (41.9%) exact matches, in which:
48 unique CDR3
4 unique J



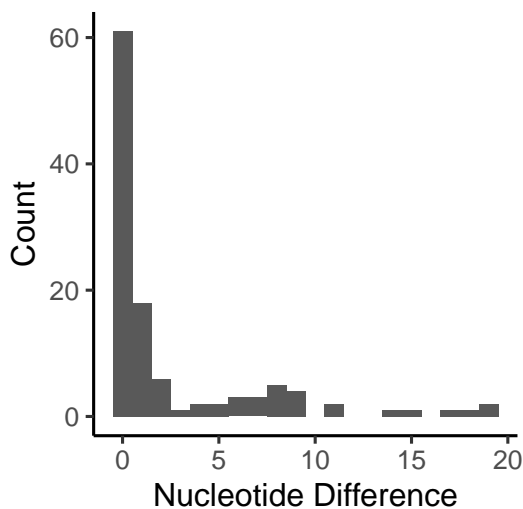
IGHV1-3*02

1 sequences assigned
No exact matches.



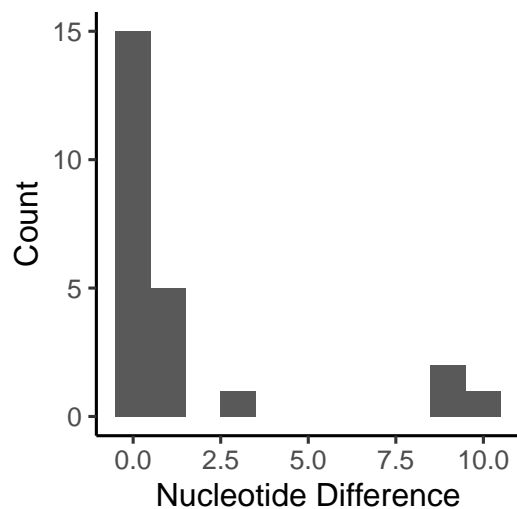
IGHV1-24*01

116 sequences assigned
61 (52.6%) exact matches, in which:
56 unique CDR3
5 unique J



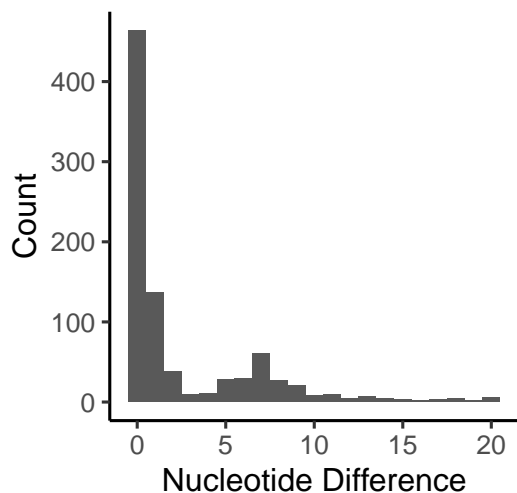
IGHV1-58*02

54 sequences assigned
15 (27.8%) exact matches, in which:
13 unique CDR3
5 unique J



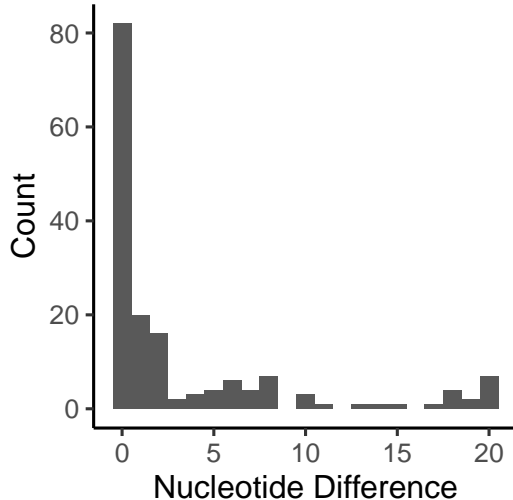
IGHV1-8*01

993 sequences assigned
464 (46.7%) exact matches, in which:
444 unique CDR3
6 unique J



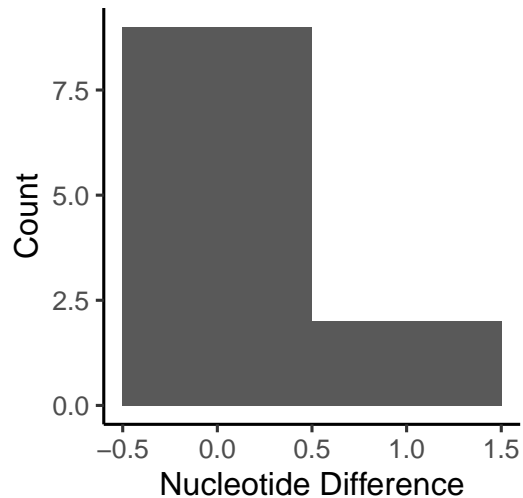
IGHV1-46*01

180 sequences assigned
82 (45.6%) exact matches, in which:
79 unique CDR3
5 unique J



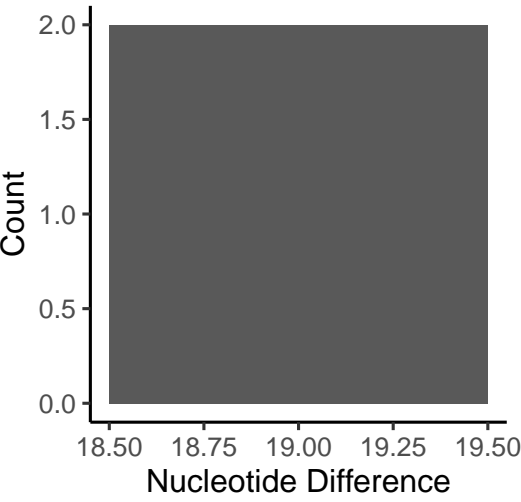
IGHV1-58*01_03

11 sequences assigned
9 (81.8%) exact matches, in which:
9 unique CDR3
2 unique J



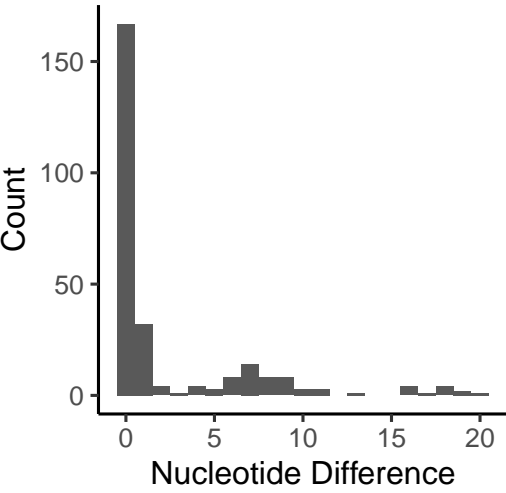
IGHV1-69-2*01

2 sequences assigned
No exact matches.



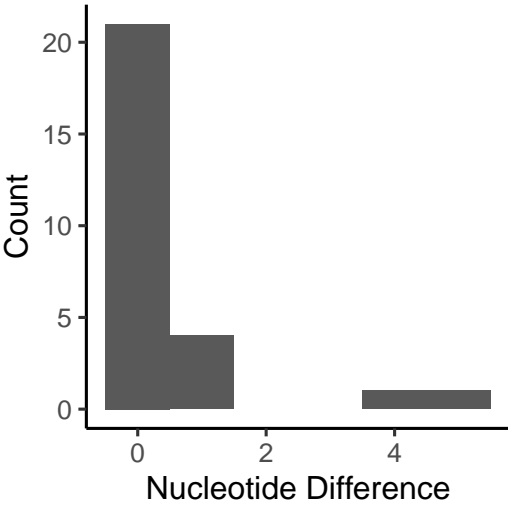
IGHV1-69*06_14

288 sequences assigned
167 (58%) exact matches, in which:
163 unique CDR3
5 unique J



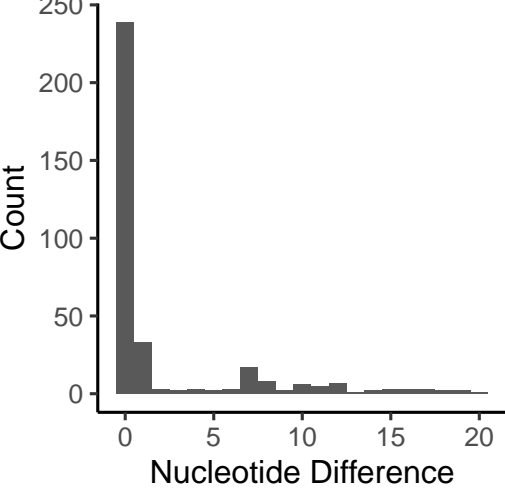
IGHV2-26*01

28 sequences assigned
21 (75%) exact matches, in which:
18 unique CDR3
3 unique J



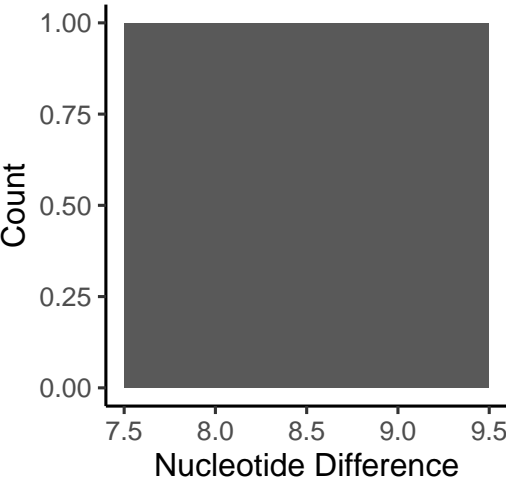
IGHV1-69*01_12_13

363 sequences assigned
239 (65.8%) exact matches, in which:
233 unique CDR3
6 unique J



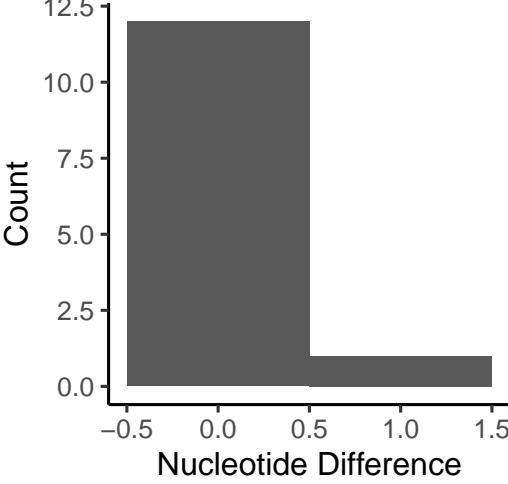
IGHV1-NL1*01

2 sequences assigned
No exact matches.



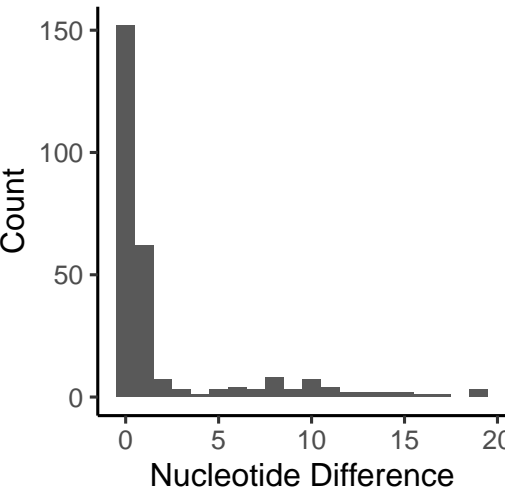
IGHV2-26*02

13 sequences assigned
12 (92.3%) exact matches, in which:
12 unique CDR3
3 unique J



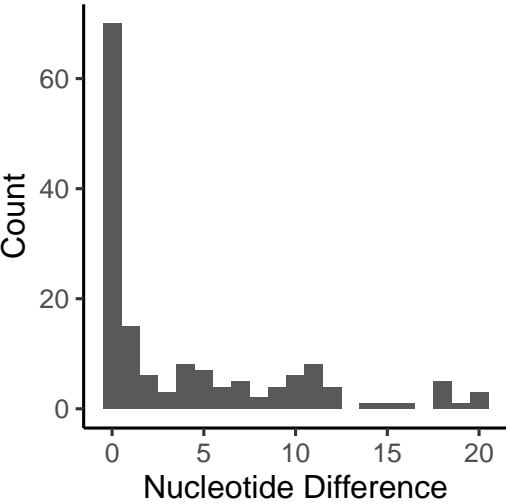
IGHV1-69*04_09_G112A

282 sequences assigned
152 (53.9%) exact matches, in which:
146 unique CDR3
6 unique J



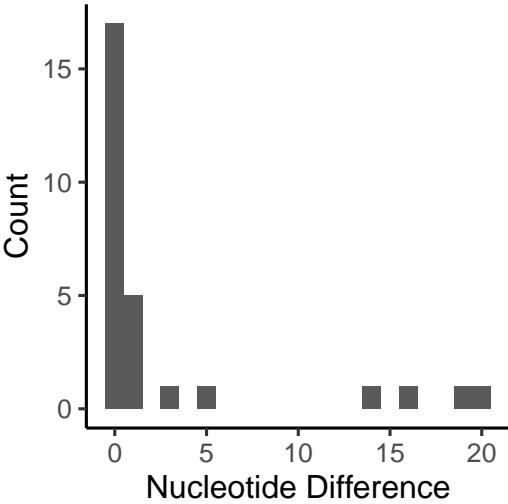
IGHV2-5*02

183 sequences assigned
70 (38.3%) exact matches, in which:
66 unique CDR3
5 unique J



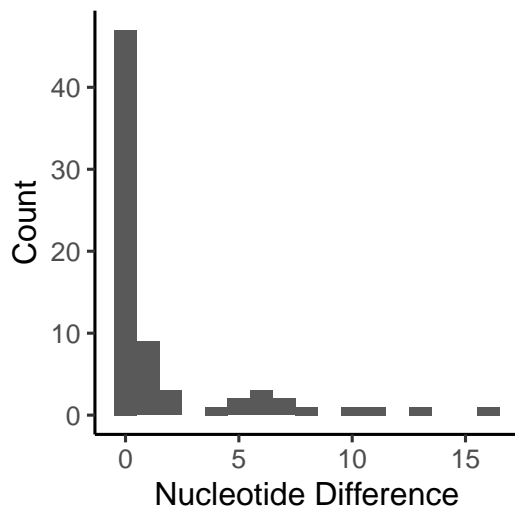
IGHV2-70*01

32 sequences assigned
17 (53.1%) exact matches, in which:
14 unique CDR3
2 unique J



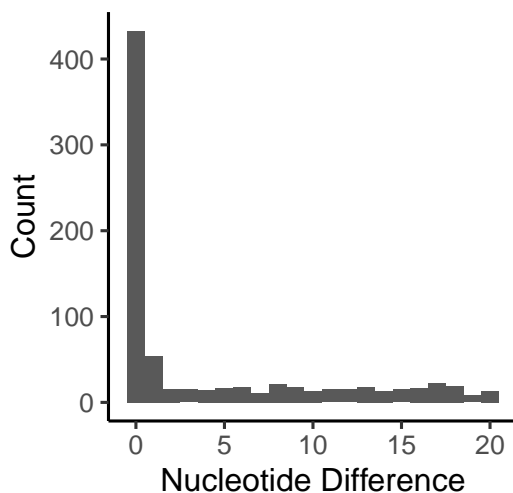
IGHV2-70*11_15

75 sequences assigned
47 (62.7%) exact matches, in which:
46 unique CDR3
4 unique J



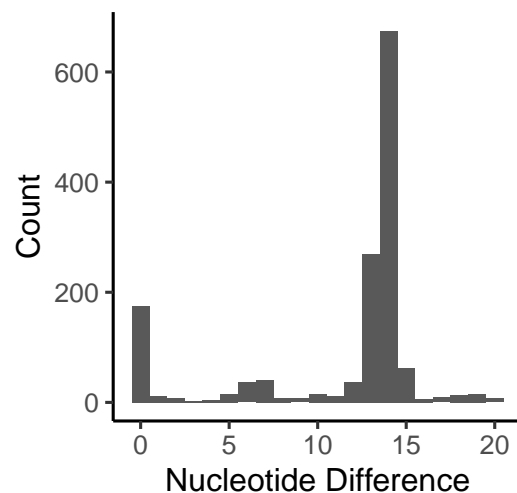
IGHV3-9*01

893 sequences assigned
433 (48.5%) exact matches, in which:
241 unique CDR3
6 unique J



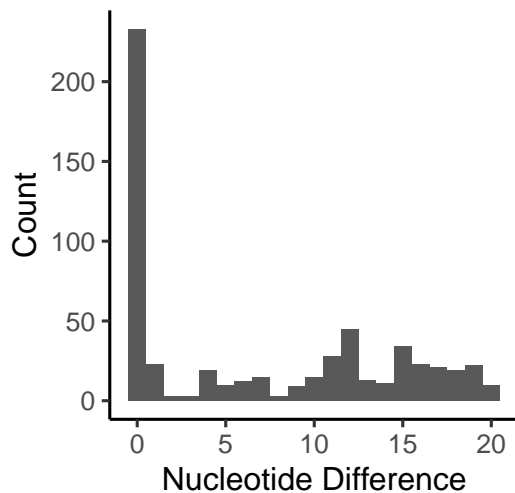
IGHV3-15*01_02

1484 sequences assigned
175 (11.8%) exact matches, in which:
103 unique CDR3
6 unique J



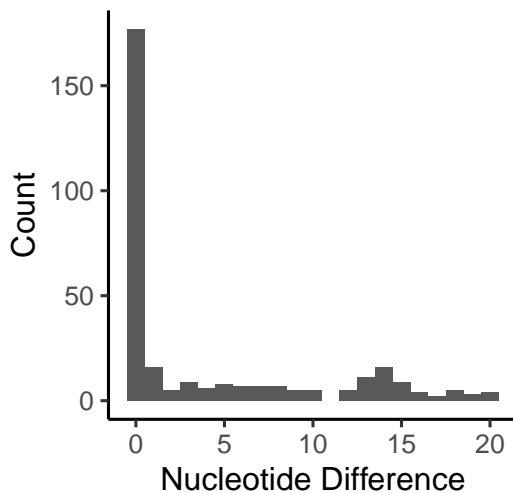
IGHV3-7*01

672 sequences assigned
233 (34.7%) exact matches, in which:
129 unique CDR3
6 unique J



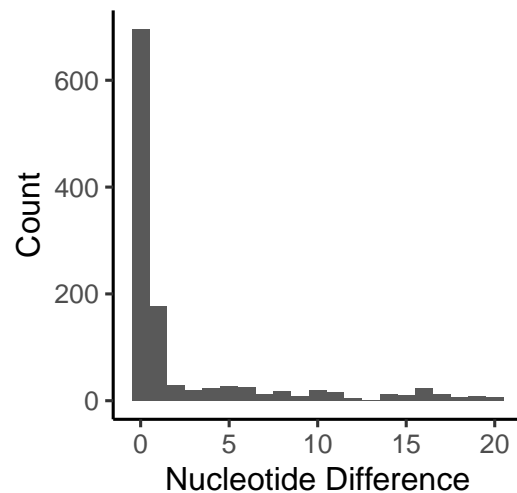
IGHV3-11*01

344 sequences assigned
177 (51.5%) exact matches, in which:
98 unique CDR3
5 unique J



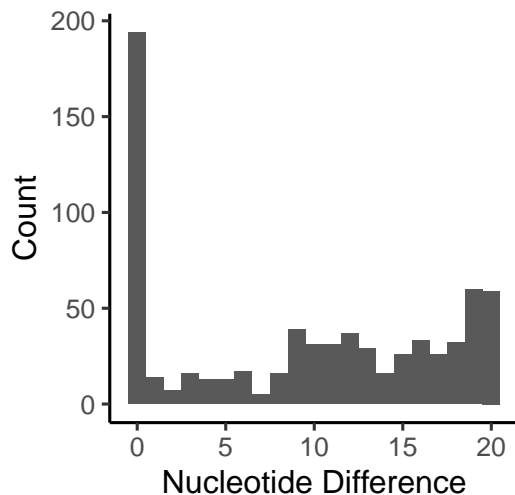
IGHV3-21*01_02

1337 sequences assigned
696 (52.1%) exact matches, in which:
382 unique CDR3
6 unique J



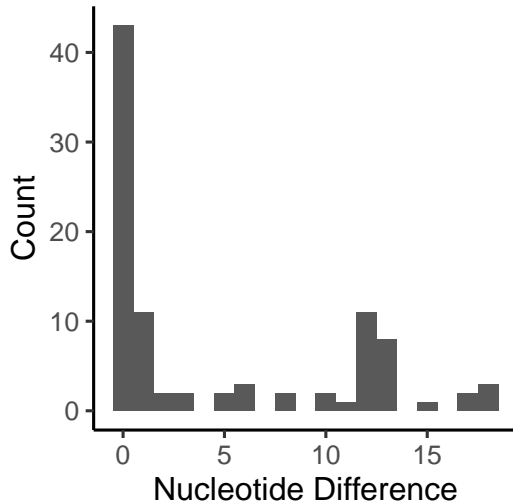
IGHV3-7*03

886 sequences assigned
194 (21.9%) exact matches, in which:
103 unique CDR3
5 unique J



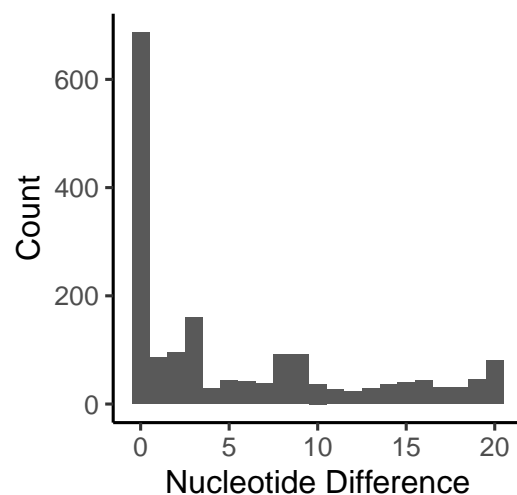
IGHV3-13*01

125 sequences assigned
43 (34.4%) exact matches, in which:
23 unique CDR3
4 unique J



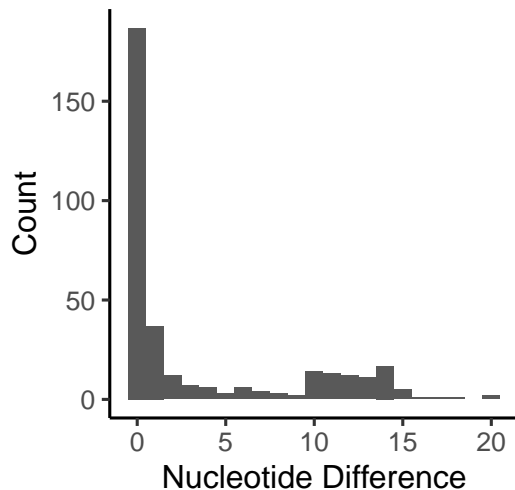
IGHV3-23*01_04

2332 sequences assigned
687 (29.5%) exact matches, in which:
368 unique CDR3
6 unique J



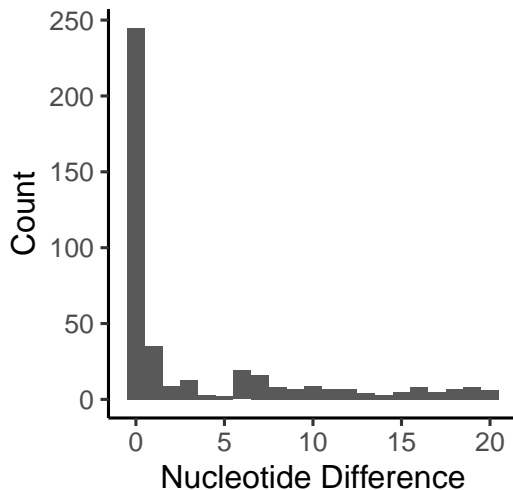
IGHV3–33*01

457 sequences assigned
187 (40.9%) exact matches, in which:
111 unique CDR3
5 unique J



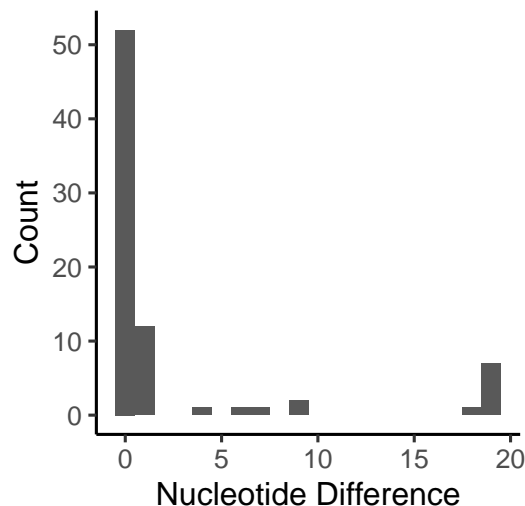
IGHV3–48*03

549 sequences assigned
245 (44.6%) exact matches, in which:
139 unique CDR3
6 unique J



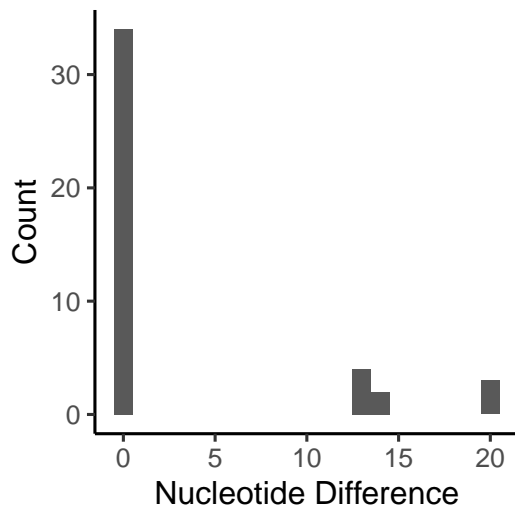
IGHV3–53*04

82 sequences assigned
52 (63.4%) exact matches, in which:
27 unique CDR3
4 unique J



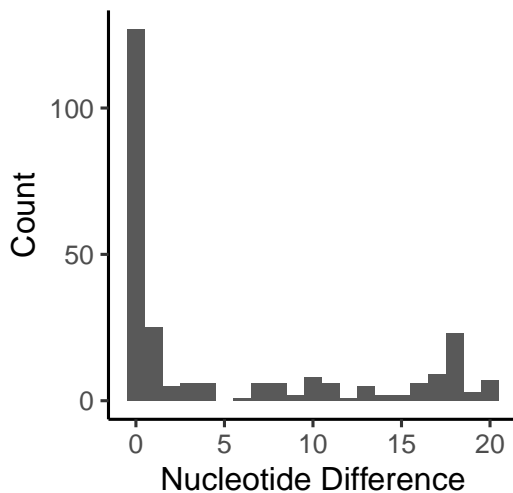
IGHV3–43*01

60 sequences assigned
34 (56.7%) exact matches, in which:
18 unique CDR3
3 unique J



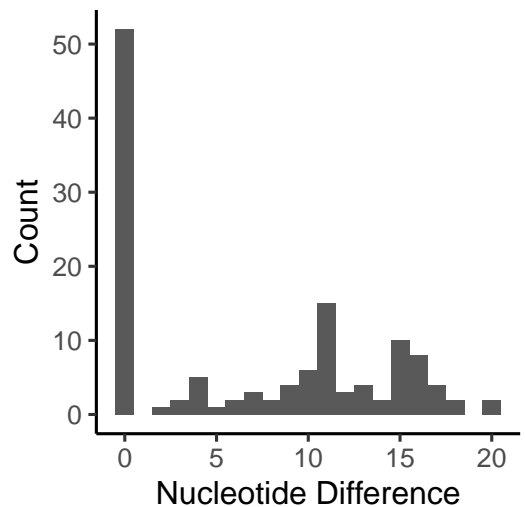
IGHV3–49*04

323 sequences assigned
127 (39.3%) exact matches, in which:
75 unique CDR3
5 unique J



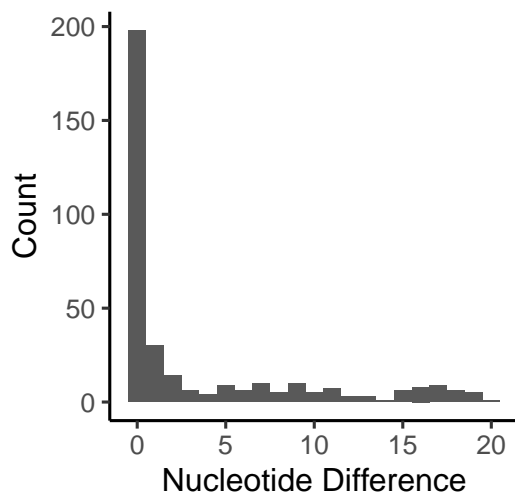
IGHV3–53*01_02

150 sequences assigned
52 (34.7%) exact matches, in which:
27 unique CDR3
4 unique J



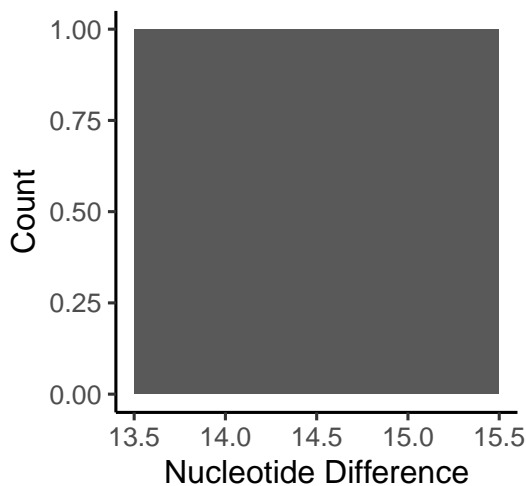
IGHV3–48*02

410 sequences assigned
198 (48.3%) exact matches, in which:
103 unique CDR3
4 unique J



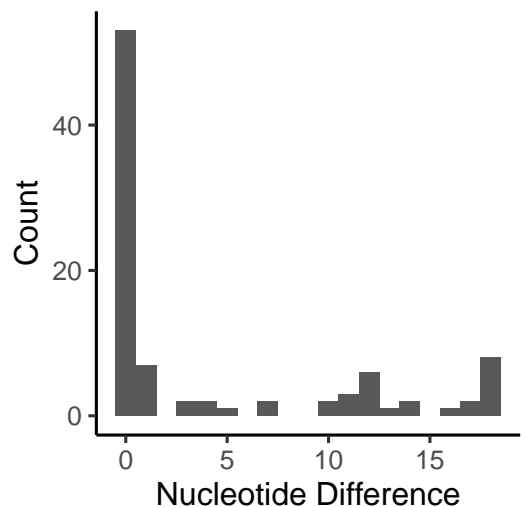
IGHV3–52*01_03

2 sequences assigned
No exact matches.



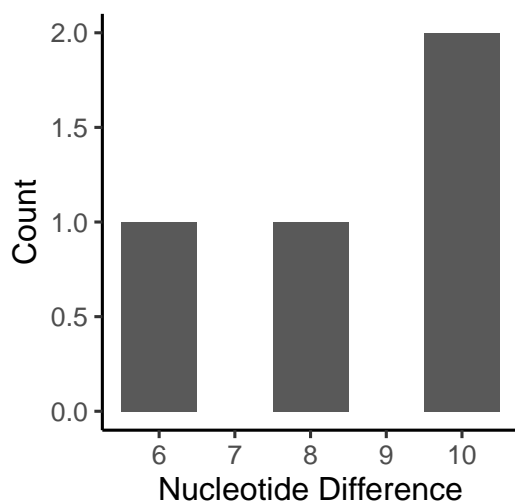
IGHV3–64*01

92 sequences assigned
53 (57.6%) exact matches, in which:
31 unique CDR3
5 unique J



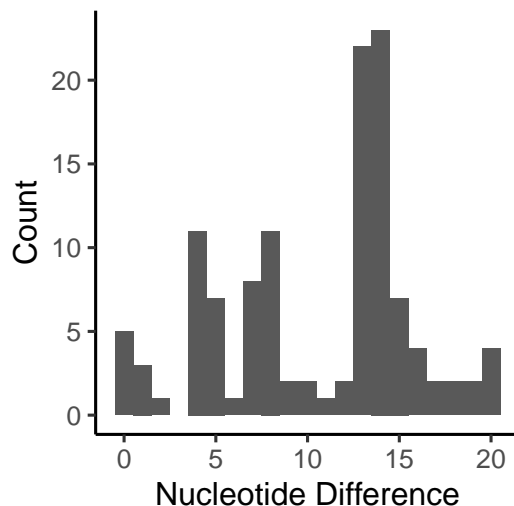
IGHV3-64*02_07

12 sequences assigned
No exact matches.



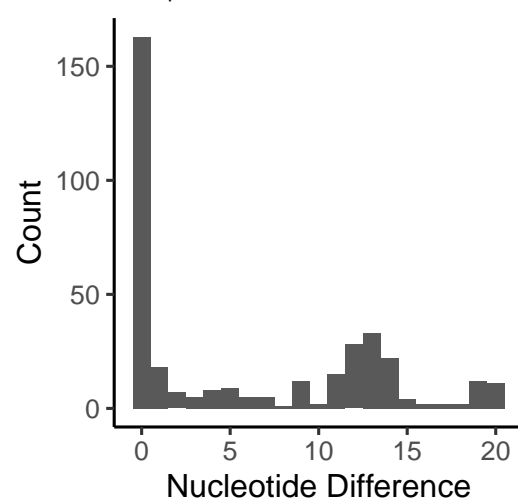
IGHV3-72*01

131 sequences assigned
5 (3.8%) exact matches, in which:
3 unique CDR3
2 unique J



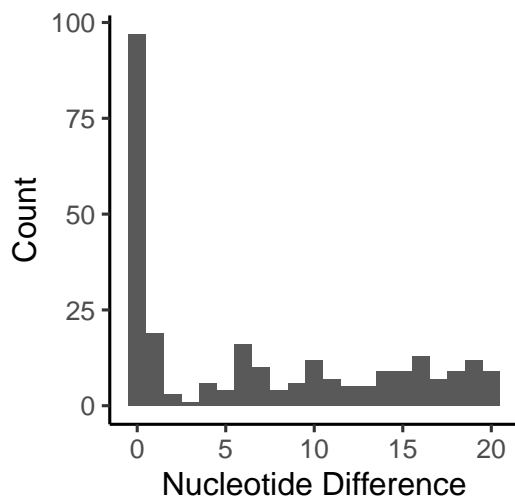
IGHV3-74*01_02

409 sequences assigned
163 (39.9%) exact matches, in which:
90 unique CDR3
6 unique J



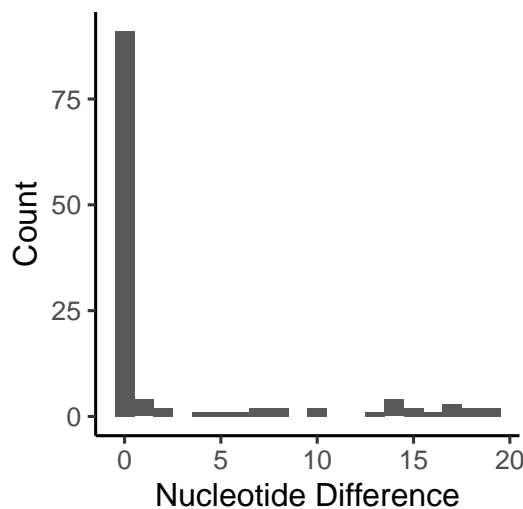
IGHV3-66*01

334 sequences assigned
97 (29%) exact matches, in which:
53 unique CDR3
4 unique J



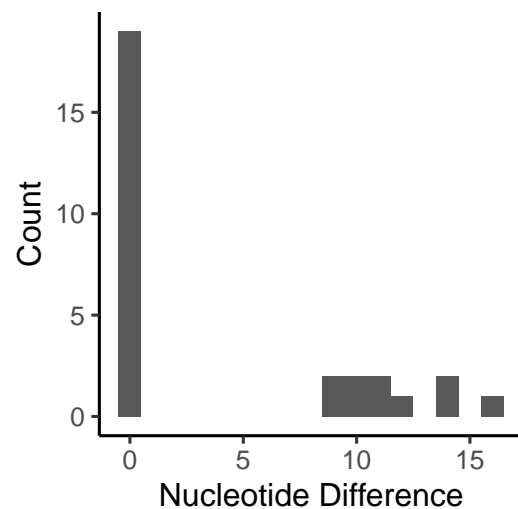
IGHV3-73*01_02

149 sequences assigned
91 (61.1%) exact matches, in which:
51 unique CDR3
5 unique J



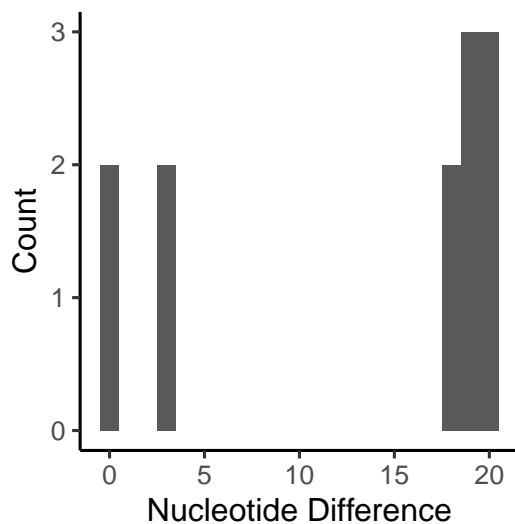
IGHV3-43D*04

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



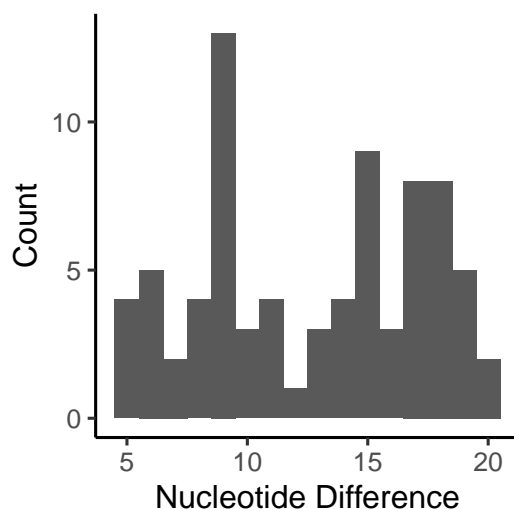
IGHV3-69-1*01

44 sequences assigned
2 (4.5%) exact matches, in which:
1 unique CDR3
1 unique J



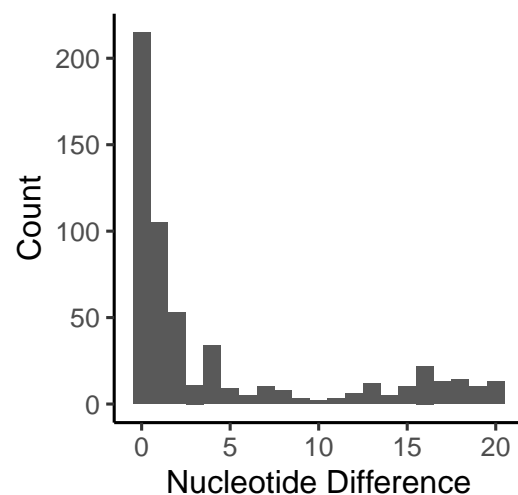
IGHV3-74*03

196 sequences assigned
No exact matches.



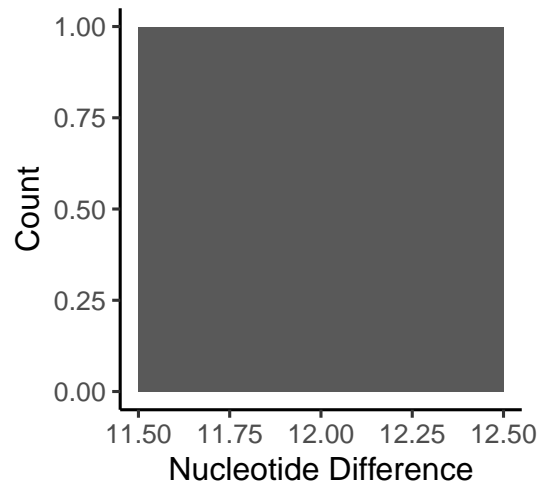
IGHV4-4*07

640 sequences assigned
215 (33.6%) exact matches, in which:
200 unique CDR3
6 unique J



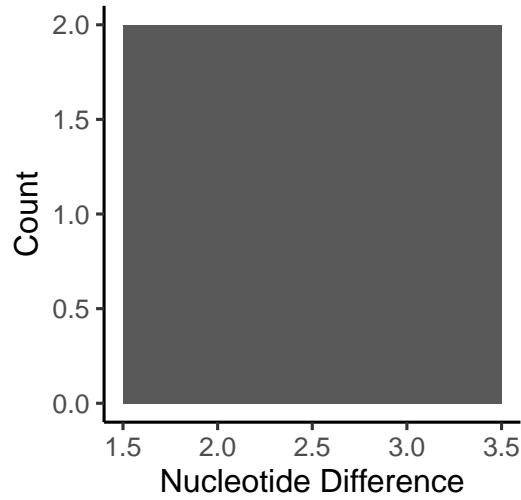
IGHV4-28*01_07

1 sequences assigned
No exact matches.



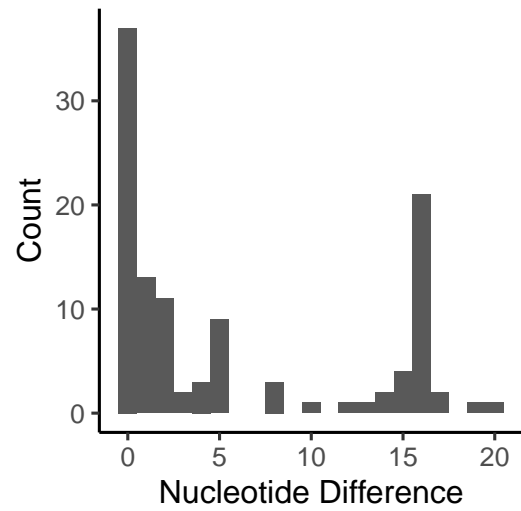
IGHV4-30-2*03

4 sequences assigned
No exact matches.



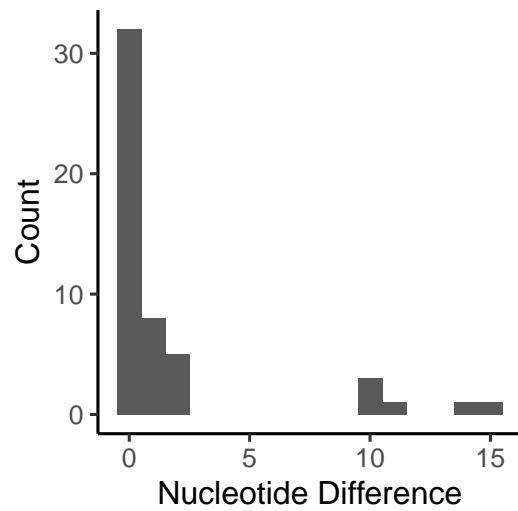
IGHV4-38-2*01

119 sequences assigned
37 (31.1%) exact matches, in which:
37 unique CDR3
5 unique J



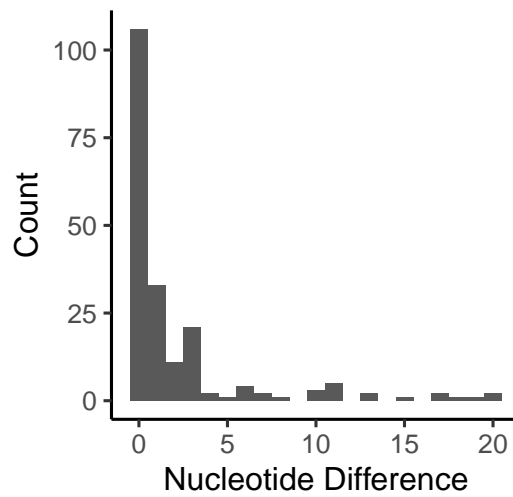
IGHV4-30-2*01

55 sequences assigned
32 (58.2%) exact matches, in which:
26 unique CDR3
5 unique J



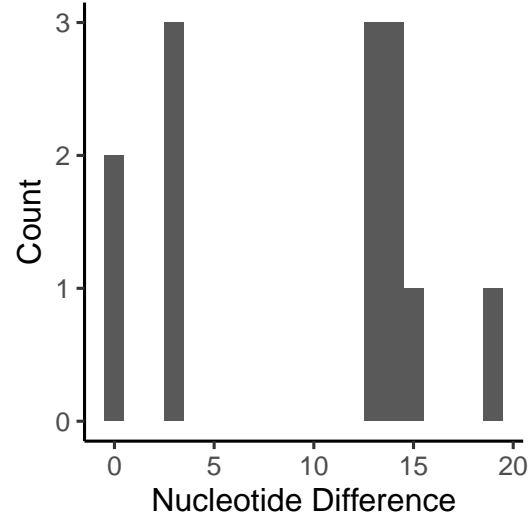
IGHV4-31*02

211 sequences assigned
106 (50.2%) exact matches, in which:
100 unique CDR3
5 unique J



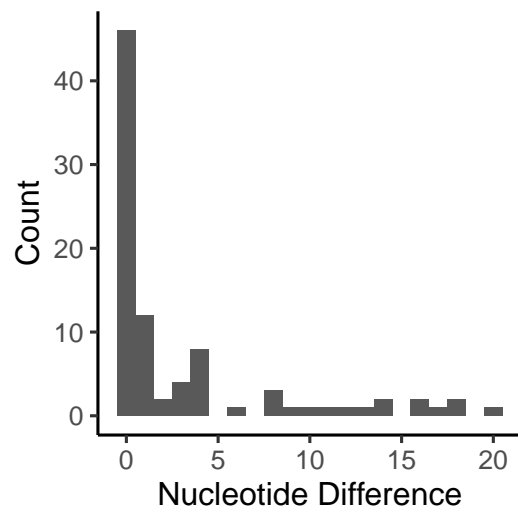
IGHV4-38-2*02

21 sequences assigned
2 (9.5%) exact matches, in which:
2 unique CDR3
1 unique J



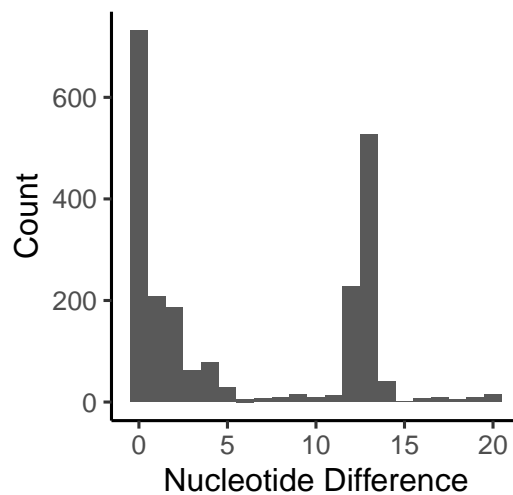
IGHV4-30-4*01

95 sequences assigned
46 (48.4%) exact matches, in which:
45 unique CDR3
5 unique J



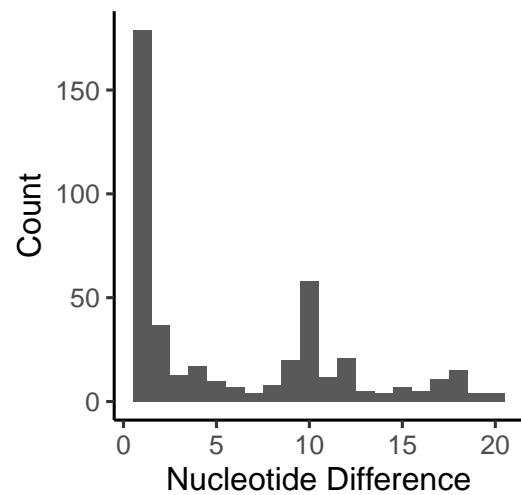
IGHV4-34*01_02

2324 sequences assigned
732 (31.5%) exact matches, in which:
674 unique CDR3
6 unique J



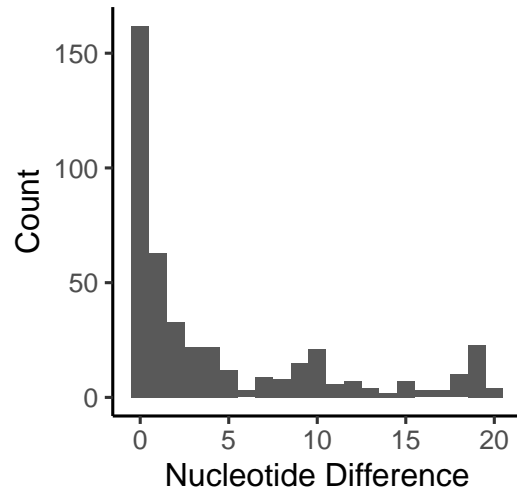
IGHV4-39*02

509 sequences assigned
No exact matches.



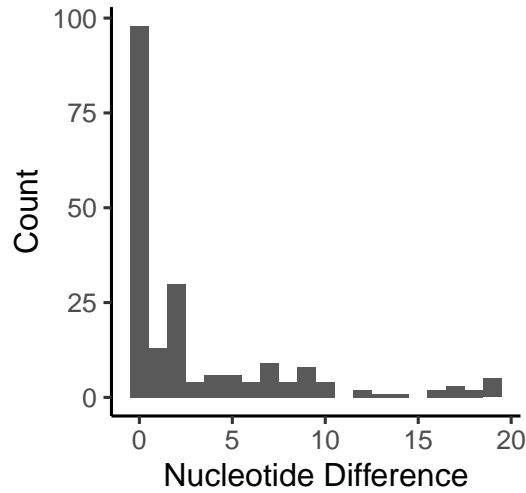
IGHV4-59*08

482 sequences assigned
162 (33.6%) exact matches, in which:
150 unique CDR3
5 unique J



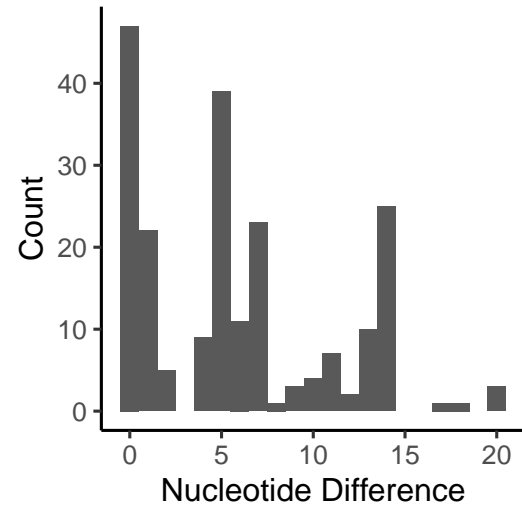
IGHV4-61*01

224 sequences assigned
98 (43.8%) exact matches, in which:
96 unique CDR3
5 unique J



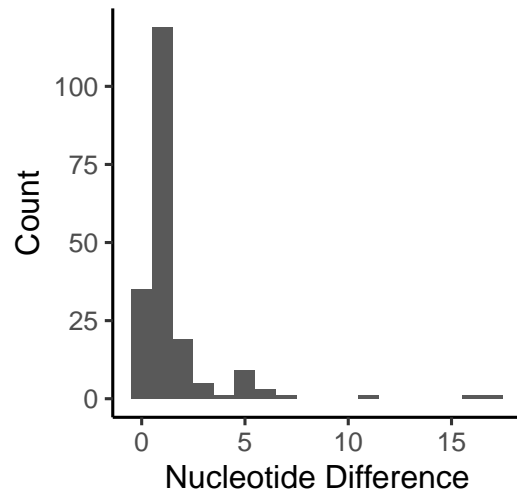
IGHV6-1*01_02

219 sequences assigned
47 (21.5%) exact matches, in which:
44 unique CDR3
4 unique J



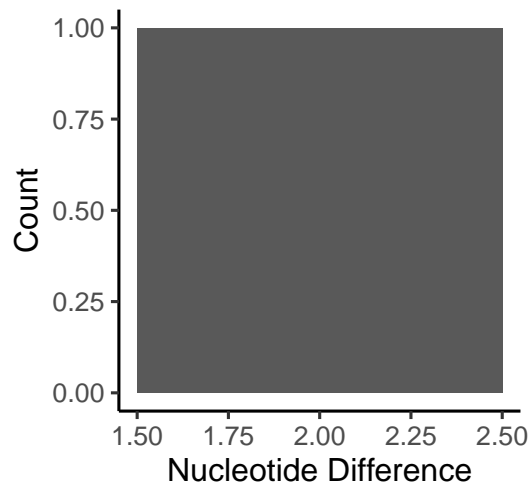
IGHV4-59*12

233 sequences assigned
35 (15%) exact matches, in which:
35 unique CDR3
5 unique J



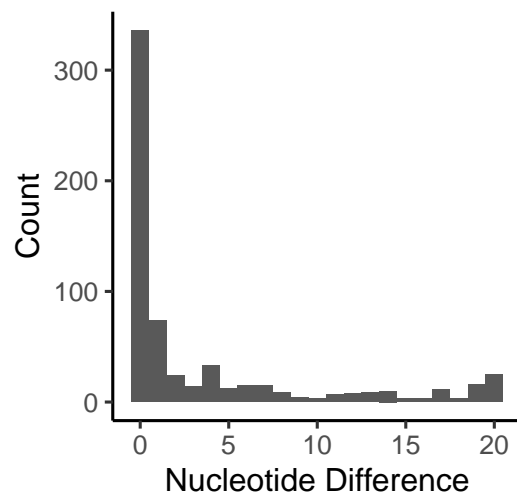
IGHV5-10-1*01_03

1 sequences assigned
No exact matches.



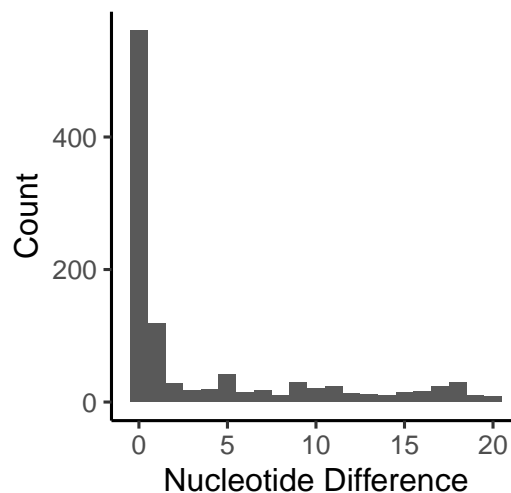
IGHV4-59*02_G88A

963 sequences assigned
336 (34.9%) exact matches, in which:
320 unique CDR3
5 unique J



IGHV5-51*07_A128G

1136 sequences assigned
561 (49.4%) exact matches, in which:
340 unique CDR3
6 unique J





Warning – no inferred sequences found.