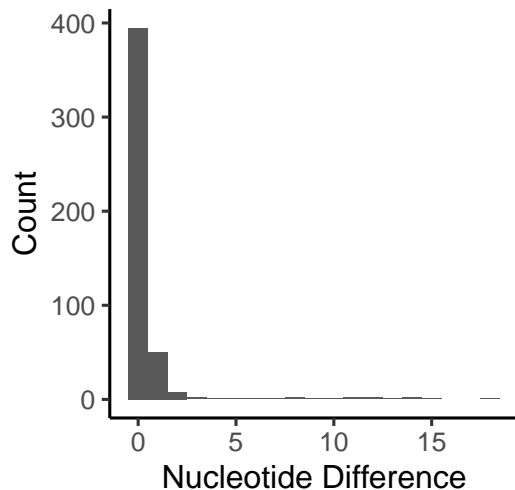


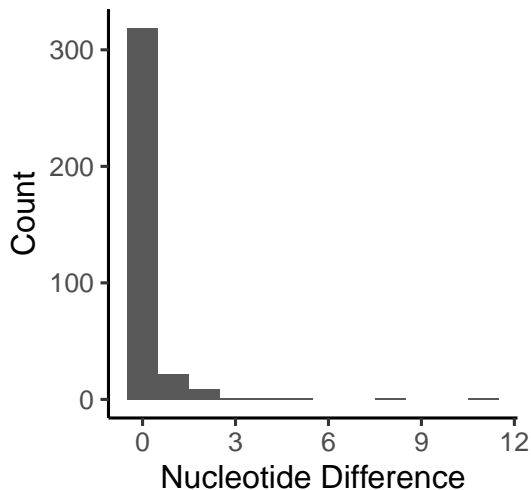
IGHV1-2*02

474 sequences assigned
395 (83.3%) exact matches, in which:
392 unique CDR3
6 unique J



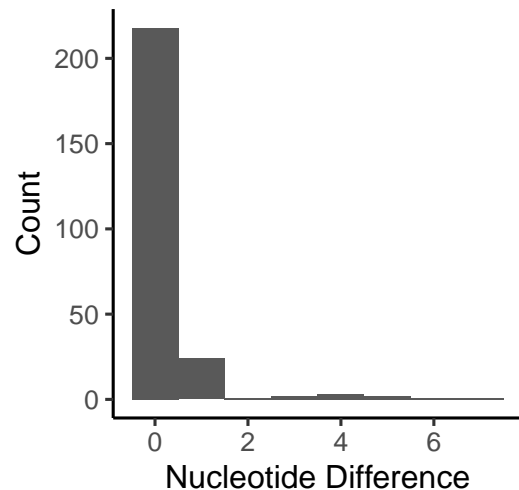
IGHV1-8*01

355 sequences assigned
319 (89.9%) exact matches, in which:
310 unique CDR3
6 unique J



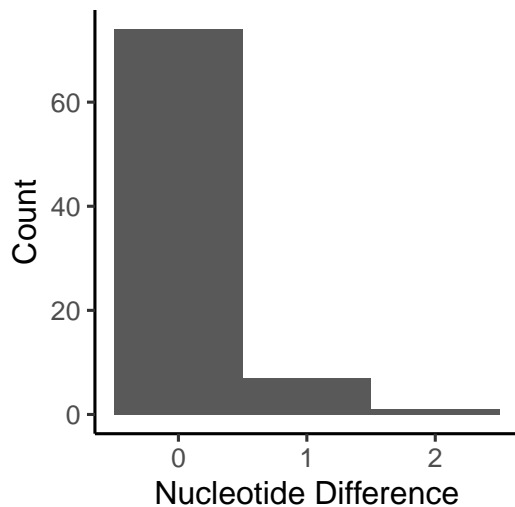
IGHV1-46*01

252 sequences assigned
218 (86.5%) exact matches, in which:
210 unique CDR3
6 unique J



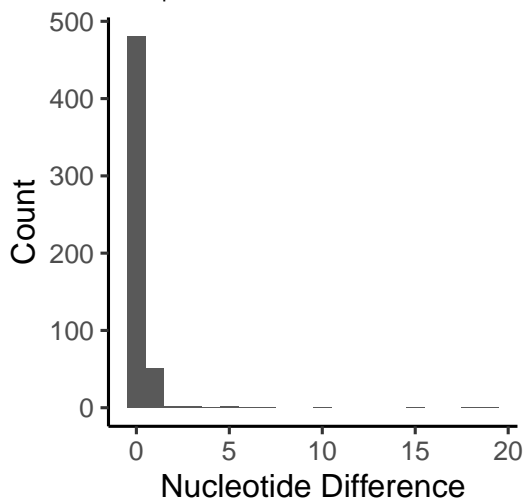
IGHV1-2*04

83 sequences assigned
74 (89.2%) exact matches, in which:
74 unique CDR3
5 unique J



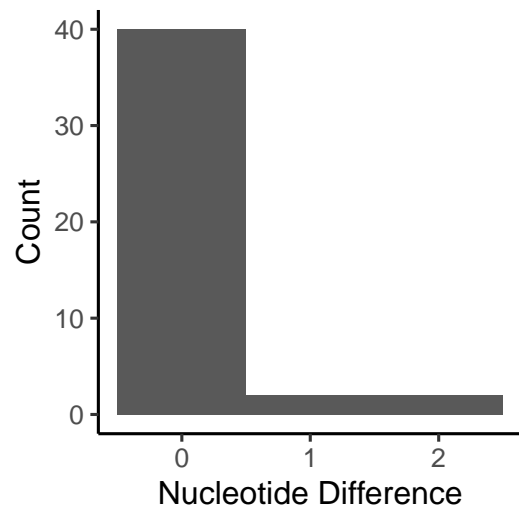
IGHV1-18*01

545 sequences assigned
481 (88.3%) exact matches, in which:
474 unique CDR3
6 unique J



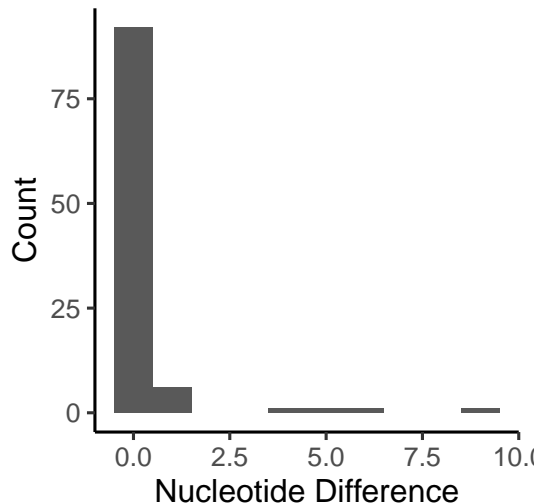
IGHV1-58*01

44 sequences assigned
40 (90.9%) exact matches, in which:
40 unique CDR3
4 unique J



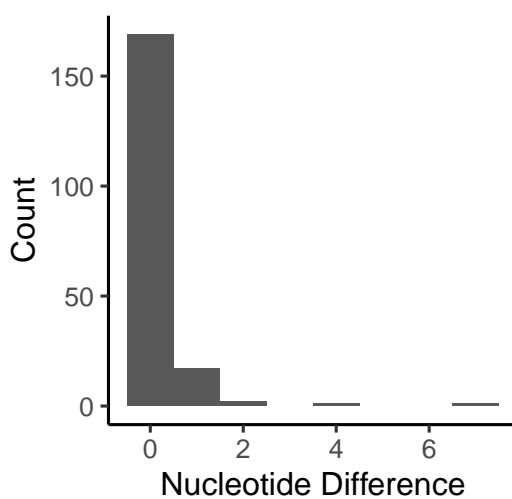
IGHV1-3*01

104 sequences assigned
92 (88.5%) exact matches, in which:
90 unique CDR3
5 unique J



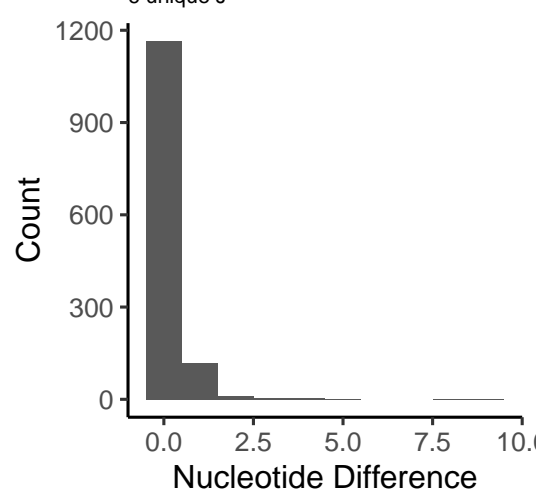
IGHV1-24*01

190 sequences assigned
169 (88.9%) exact matches, in which:
165 unique CDR3
6 unique J



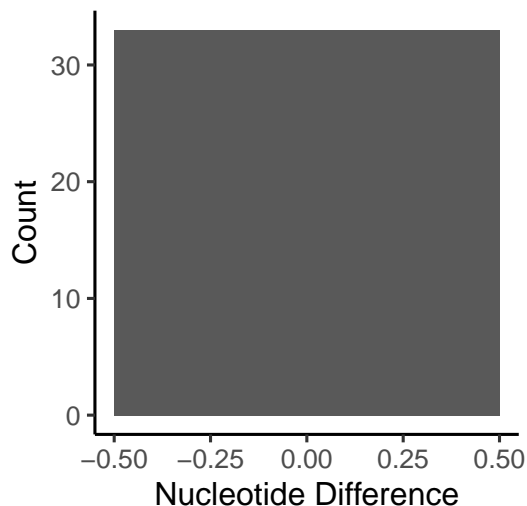
IGHV1-69*01

1307 sequences assigned
1165 (89.1%) exact matches, in which:
1147 unique CDR3
6 unique J



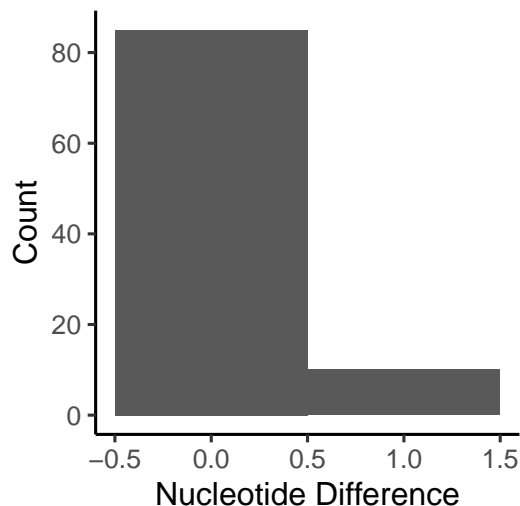
IGHV1-69-2*01

33 sequences assigned
33 (100%) exact matches, in which:
32 unique CDR3
5 unique J



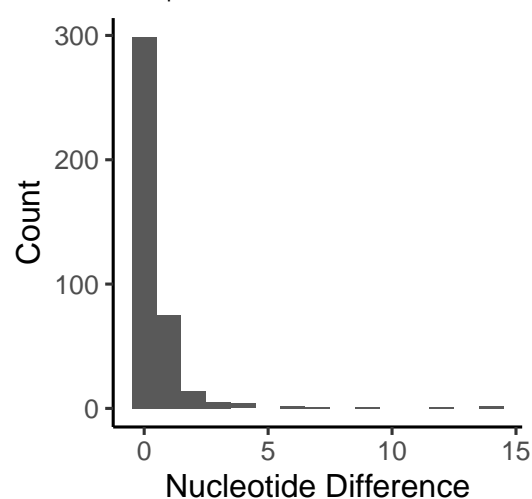
IGHV2-26*01

95 sequences assigned
85 (89.5%) exact matches, in which:
83 unique CDR3
5 unique J



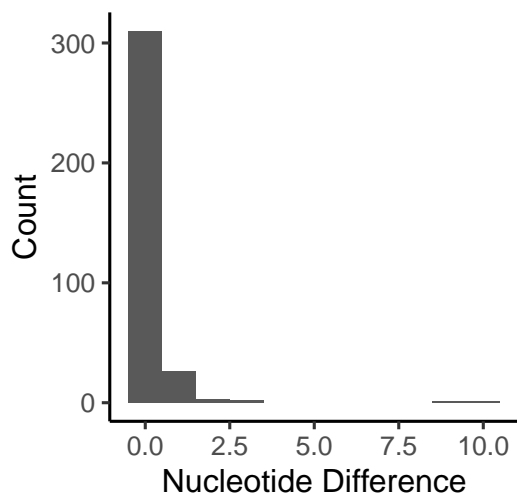
IGHV3-7*01

405 sequences assigned
299 (73.8%) exact matches, in which:
289 unique CDR3
6 unique J



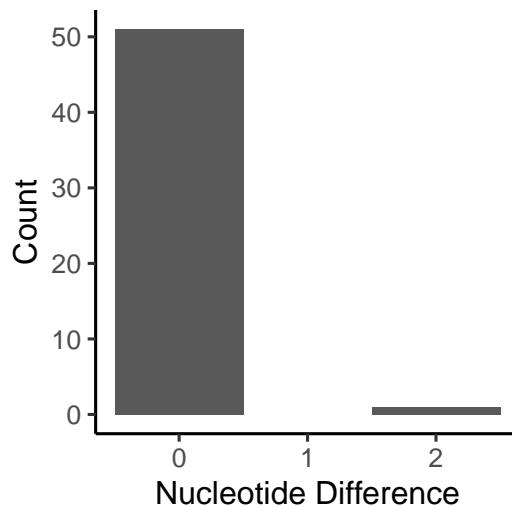
IGHV1-69*06

343 sequences assigned
310 (90.4%) exact matches, in which:
301 unique CDR3
6 unique J



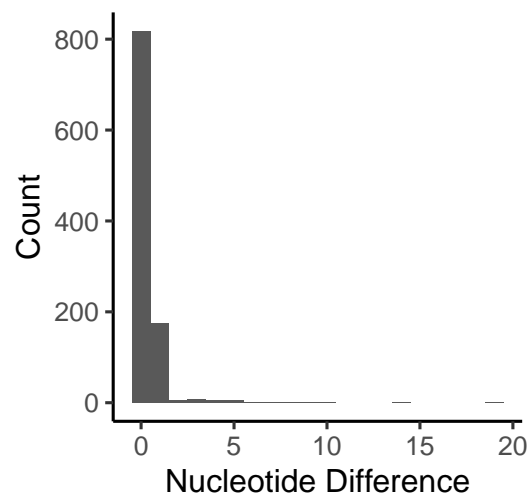
IGHV2-70*01

52 sequences assigned
51 (98.1%) exact matches, in which:
51 unique CDR3
4 unique J



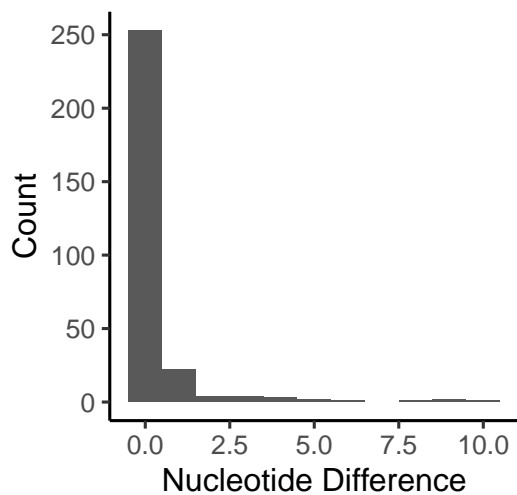
IGHV3-9*01

1026 sequences assigned
818 (79.7%) exact matches, in which:
788 unique CDR3
6 unique J



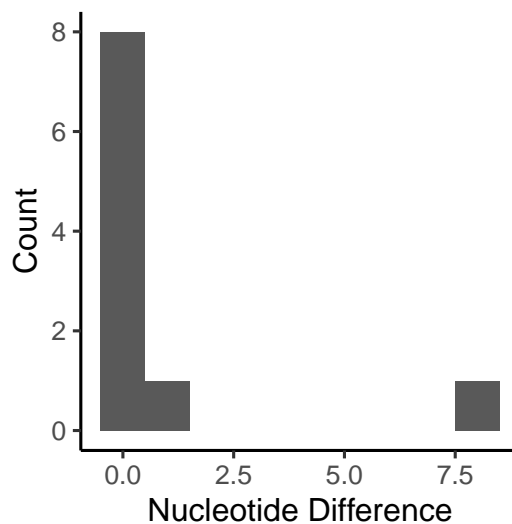
IGHV2-5*02

293 sequences assigned
253 (86.3%) exact matches, in which:
250 unique CDR3
6 unique J



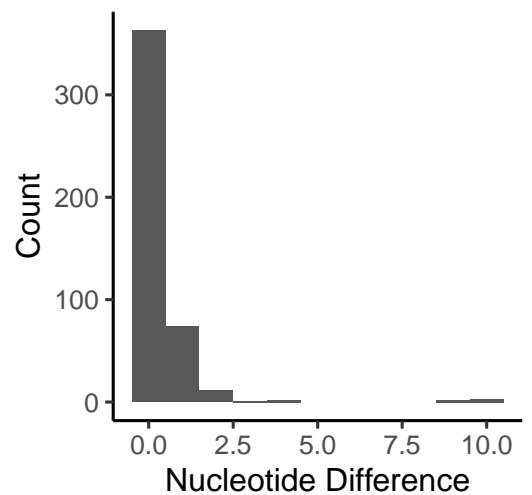
IGHV2-70*04

10 sequences assigned
8 (80%) exact matches, in which:
8 unique CDR3
3 unique J



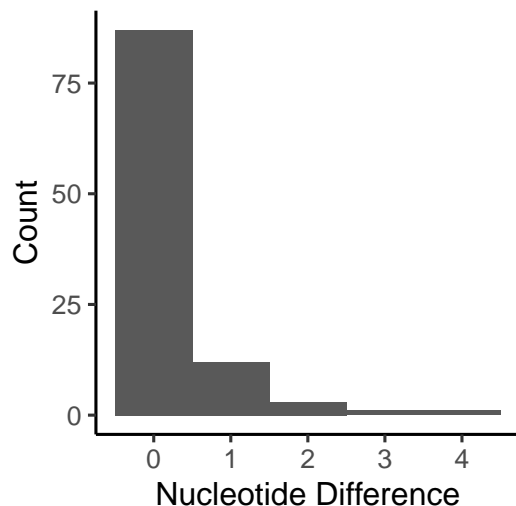
IGHV3-11*01

456 sequences assigned
363 (79.6%) exact matches, in which:
358 unique CDR3
6 unique J



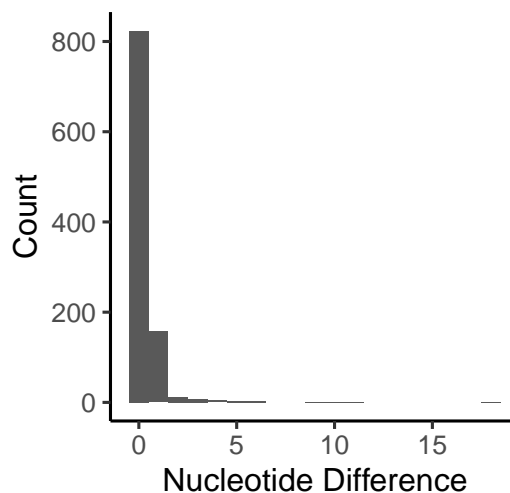
IGHV3-13*01

104 sequences assigned
87 (83.7%) exact matches, in which:
84 unique CDR3
4 unique J



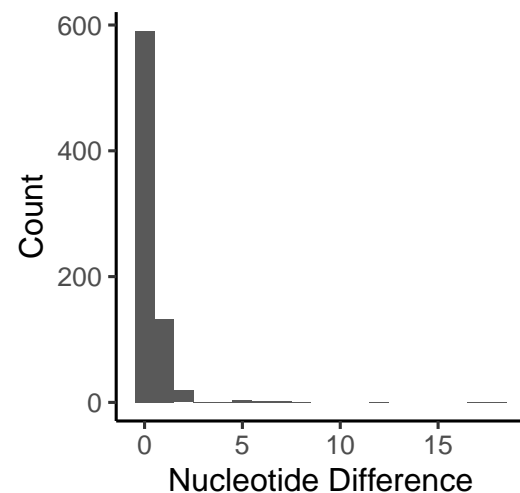
IGHV3-21*01

1015 sequences assigned
824 (81.2%) exact matches, in which:
797 unique CDR3
6 unique J



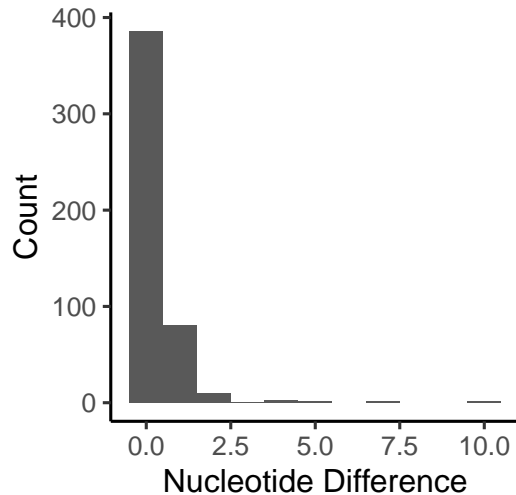
IGHV3-30*18

757 sequences assigned
591 (78.1%) exact matches, in which:
571 unique CDR3
6 unique J



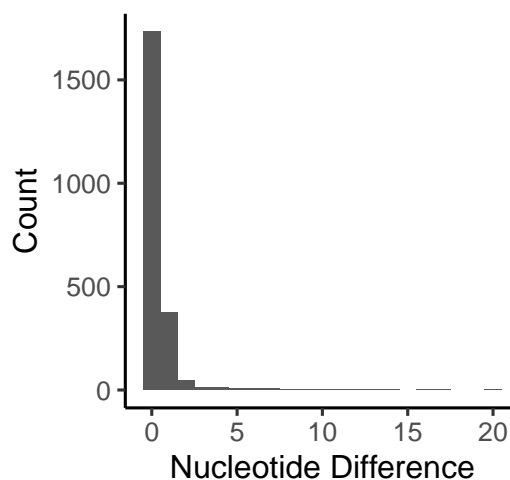
IGHV3-15*01

487 sequences assigned
386 (79.3%) exact matches, in which:
377 unique CDR3
6 unique J



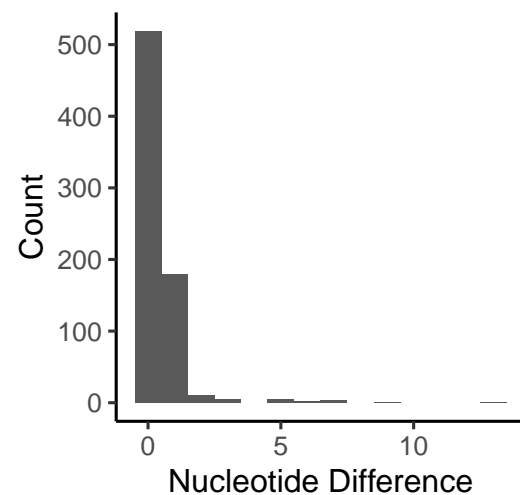
IGHV3-23*01

2215 sequences assigned
1733 (78.2%) exact matches, in which:
1641 unique CDR3
6 unique J



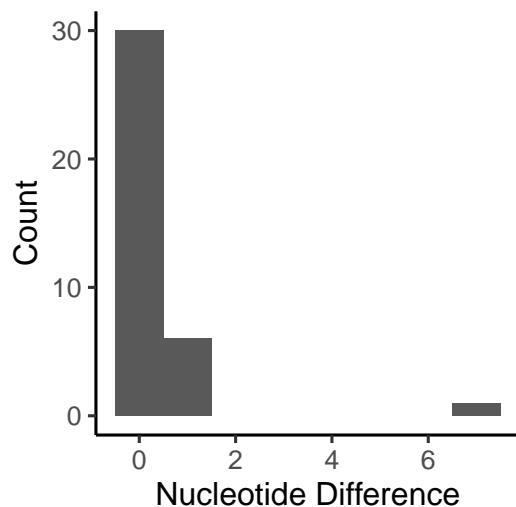
IGHV3-33*01

727 sequences assigned
519 (71.4%) exact matches, in which:
507 unique CDR3
6 unique J



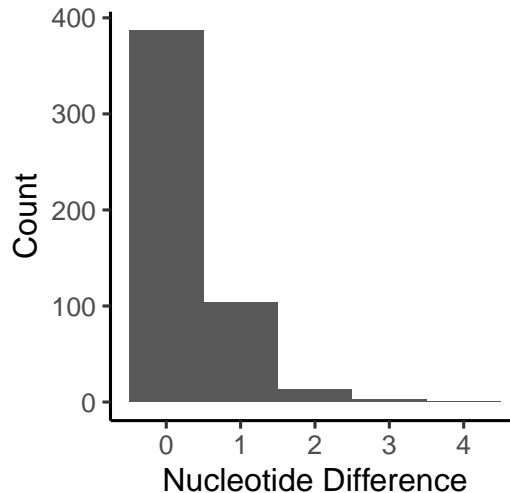
IGHV3-20*01

37 sequences assigned
30 (81.1%) exact matches, in which:
29 unique CDR3
5 unique J



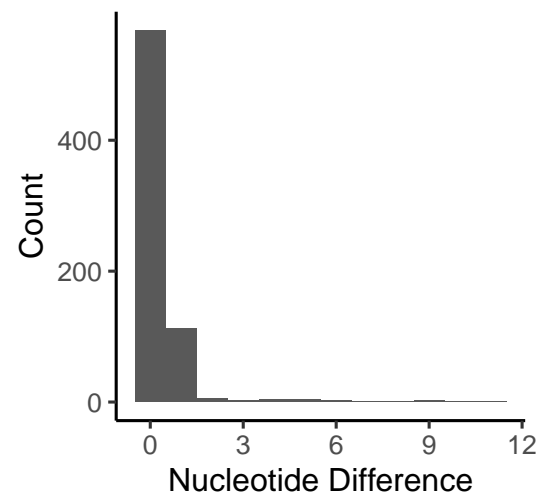
IGHV3-30-3*01

513 sequences assigned
387 (75.4%) exact matches, in which:
374 unique CDR3
6 unique J



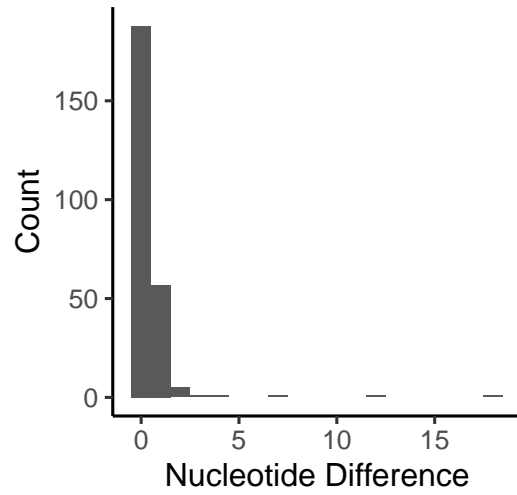
IGHV3-48*03

706 sequences assigned
568 (80.5%) exact matches, in which:
557 unique CDR3
6 unique J



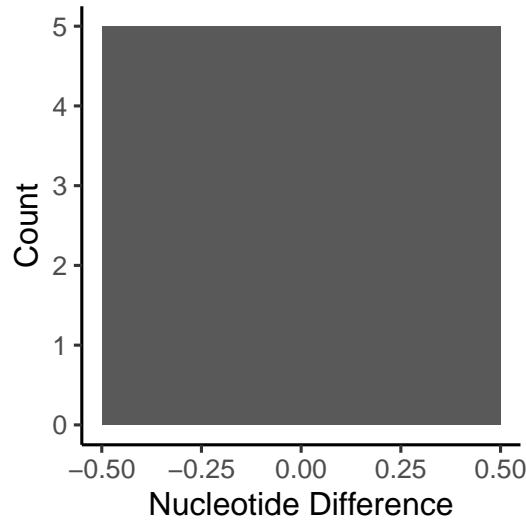
IGHV3-49*04

255 sequences assigned
188 (73.7%) exact matches, in which:
185 unique CDR3
6 unique J



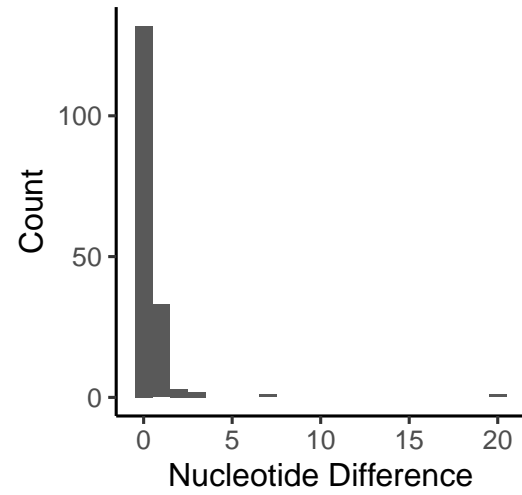
IGHV3-64*02

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



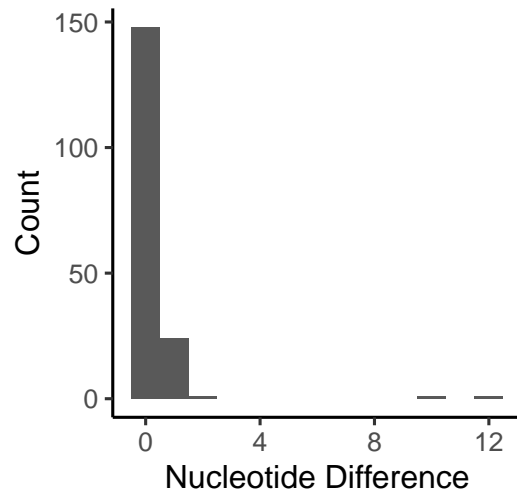
IGHV3-73*02

172 sequences assigned
132 (76.7%) exact matches, in which:
122 unique CDR3
6 unique J



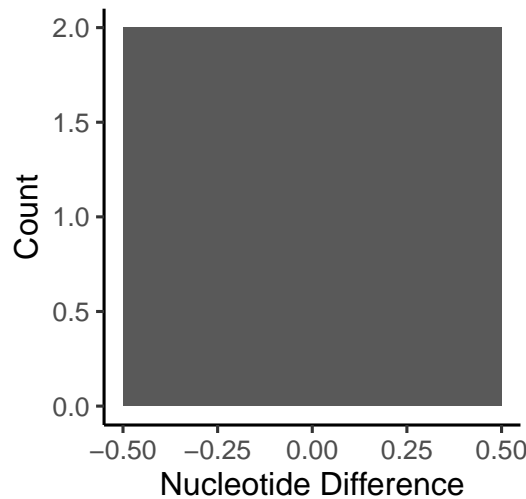
IGHV3-53*01

176 sequences assigned
148 (84.1%) exact matches, in which:
147 unique CDR3
5 unique J



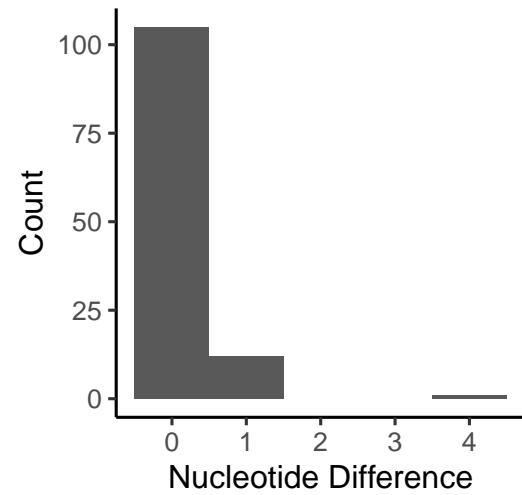
IGHV3-66*03

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



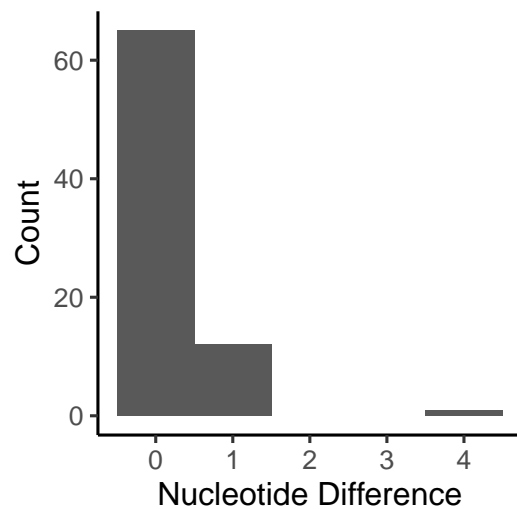
IGHV3-74*01

119 sequences assigned
105 (88.2%) exact matches, in which:
103 unique CDR3
5 unique J



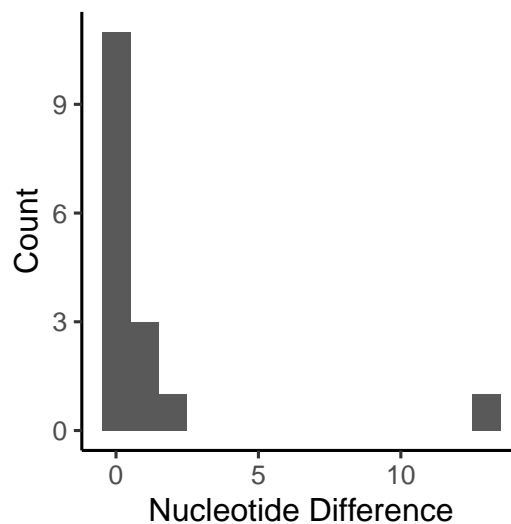
IGHV3-53*02

78 sequences assigned
65 (83.3%) exact matches, in which:
65 unique CDR3
5 unique J



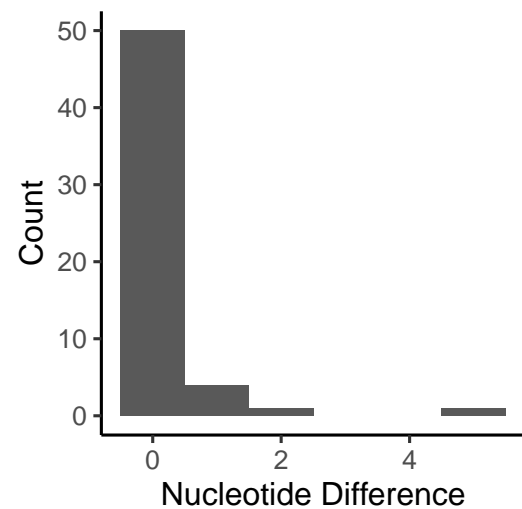
IGHV3-72*01

16 sequences assigned
11 (68.8%) exact matches, in which:
11 unique CDR3
4 unique J



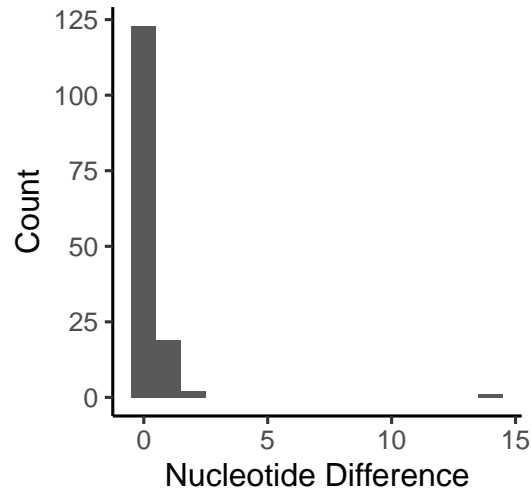
IGHV3-43D*04

56 sequences assigned
50 (89.3%) exact matches, in which:
50 unique CDR3
5 unique J



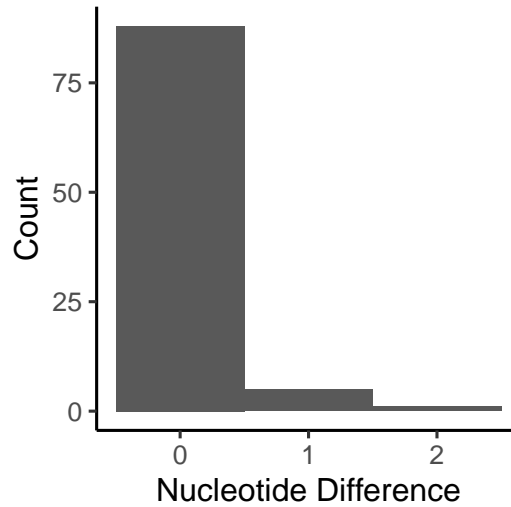
IGHV4-4*02

145 sequences assigned
123 (84.8%) exact matches, in which:
121 unique CDR3
6 unique J



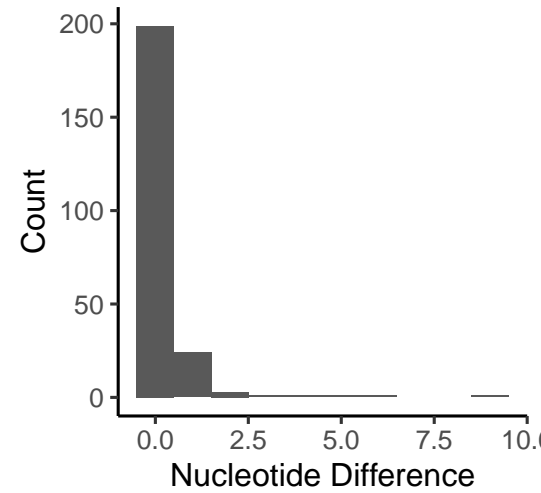
IGHV4-30-4*01

94 sequences assigned
88 (93.6%) exact matches, in which:
86 unique CDR3
6 unique J



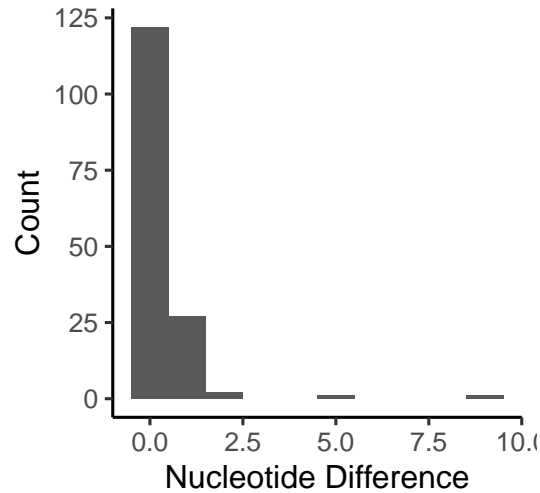
IGHV4-38-2*01

231 sequences assigned
199 (86.1%) exact matches, in which:
198 unique CDR3
6 unique J



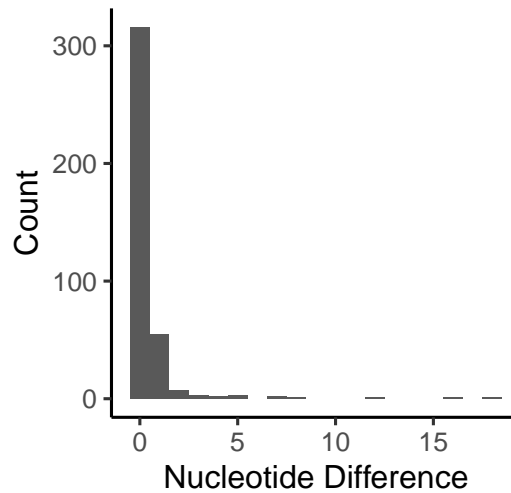
IGHV4-4*07

153 sequences assigned
122 (79.7%) exact matches, in which:
120 unique CDR3
5 unique J



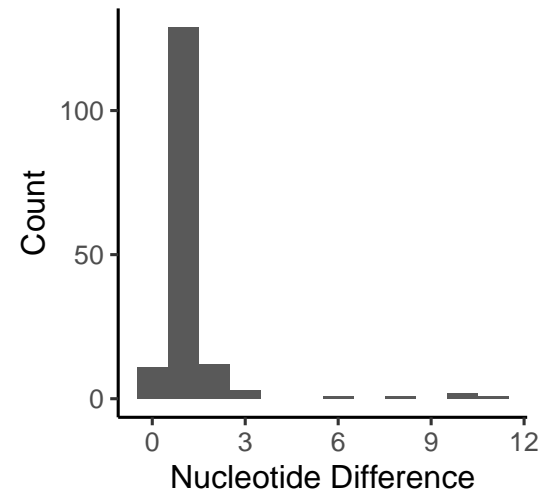
IGHV4-31*03

393 sequences assigned
316 (80.4%) exact matches, in which:
312 unique CDR3
6 unique J



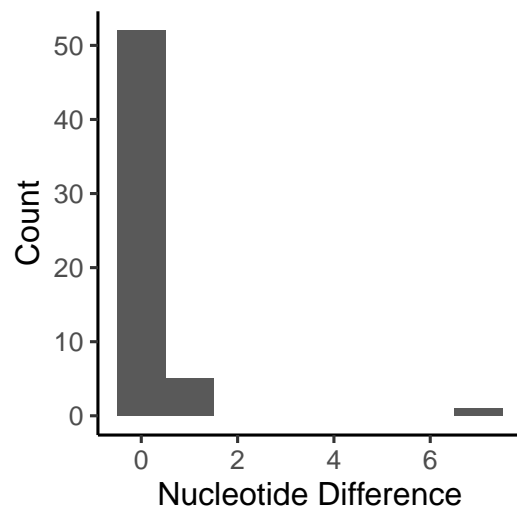
IGHV4-38-2*02

162 sequences assigned
11 (6.8%) exact matches, in which:
11 unique CDR3
4 unique J



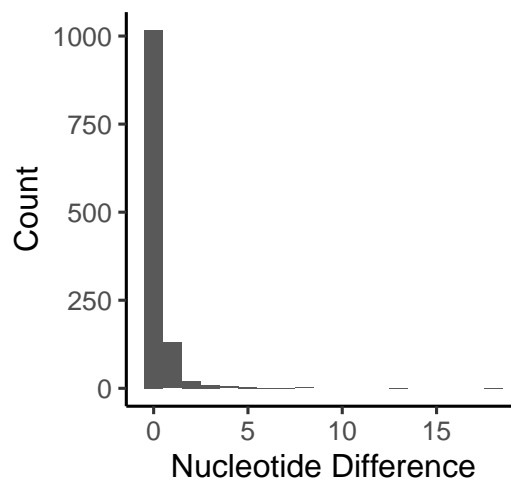
IGHV4-30-2*01

58 sequences assigned
52 (89.7%) exact matches, in which:
50 unique CDR3
6 unique J



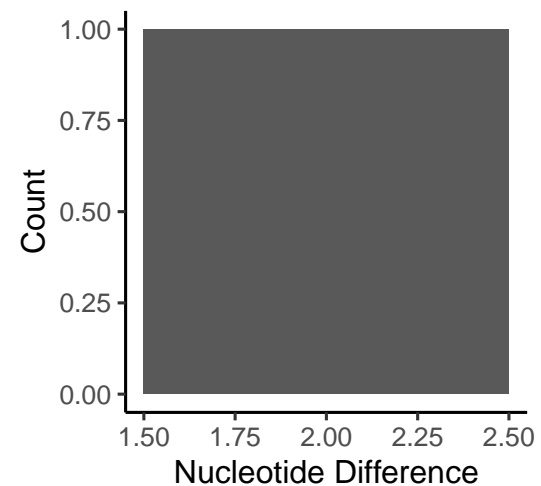
IGHV4-34*01

1194 sequences assigned
1017 (85.2%) exact matches, in which:
994 unique CDR3
6 unique J



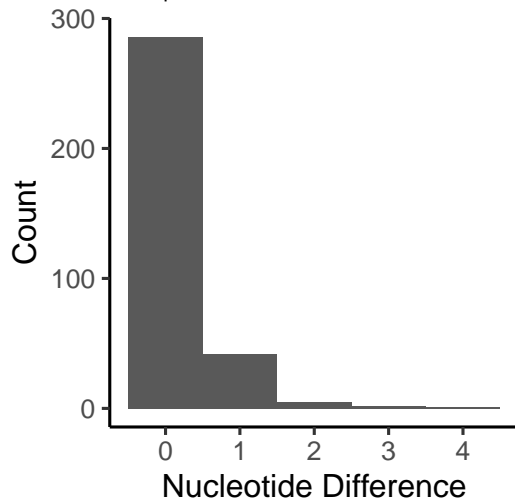
IGHV4-39*07

1 sequences assigned
No exact matches.



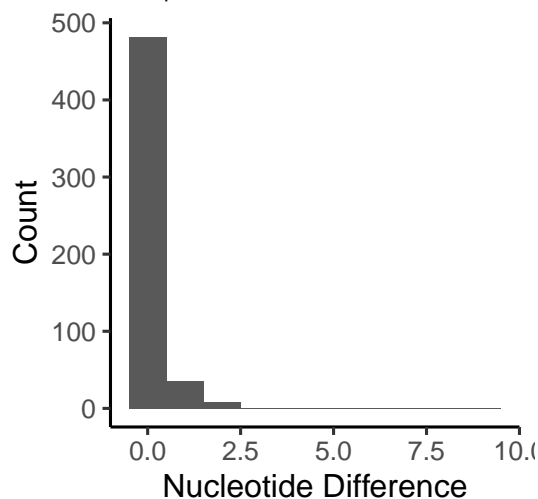
IGHV4–59*01

336 sequences assigned
286 (85.1%) exact matches, in which:
285 unique CDR3
6 unique J



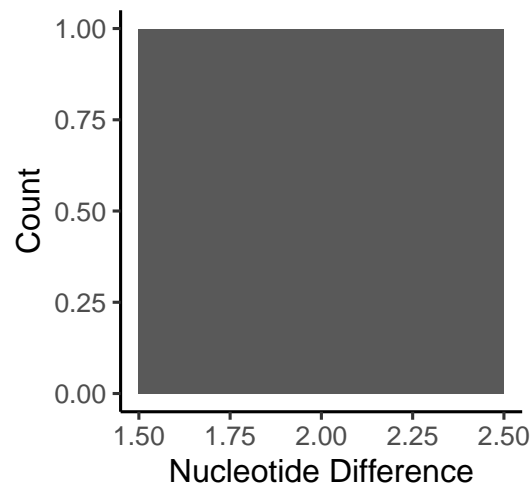
IGHV5–51*01

534 sequences assigned
482 (90.3%) exact matches, in which:
469 unique CDR3
6 unique J



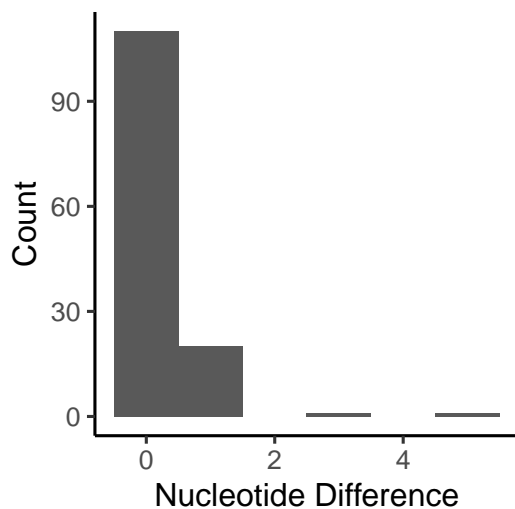
IGHV3/OR16–12*01

1 sequences assigned
No exact matches.



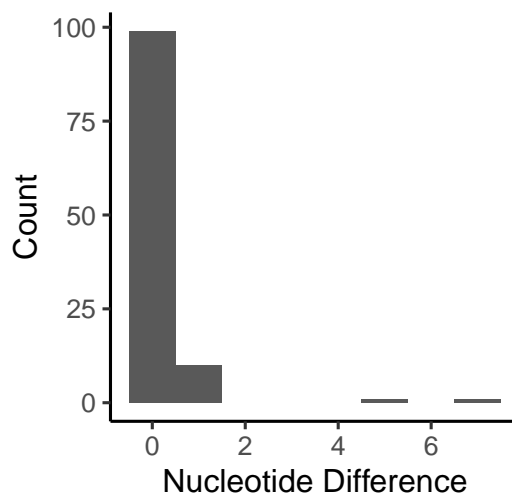
IGHV4–61*01

136 sequences assigned
110 (80.9%) exact matches, in which:
110 unique CDR3
6 unique J



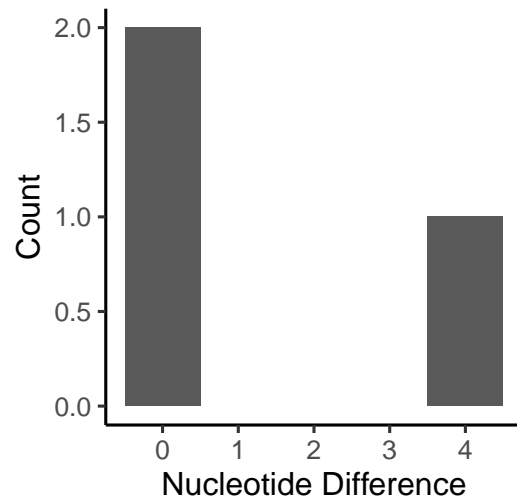
IGHV6–1*01

111 sequences assigned
99 (89.2%) exact matches, in which:
96 unique CDR3
5 unique J



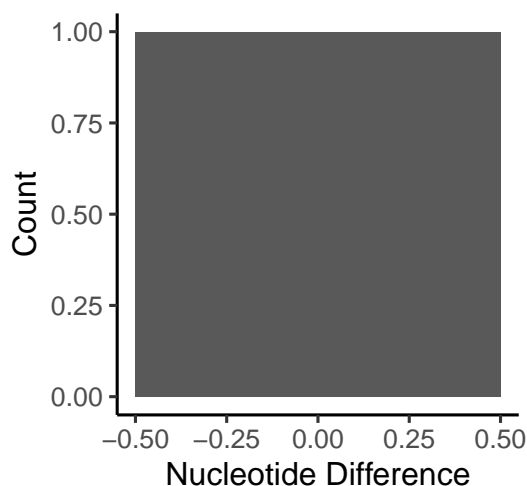
IGHV7–4–1*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



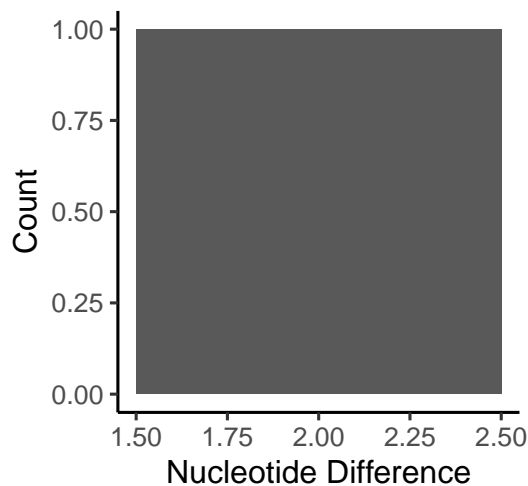
IGHV1/OR15–2*01

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



IGHV3/OR16–8*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.