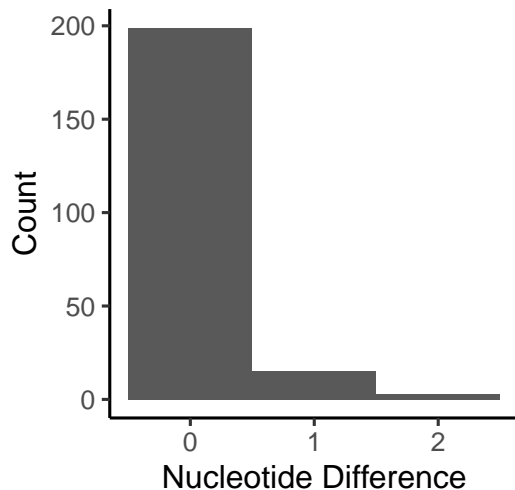


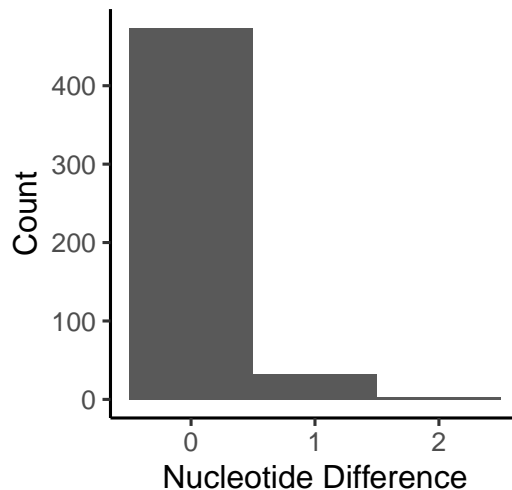
IGHV1-2*04

217 sequences assigned
199 (91.7%) exact matches, in which:
196 unique CDR3
6 unique J



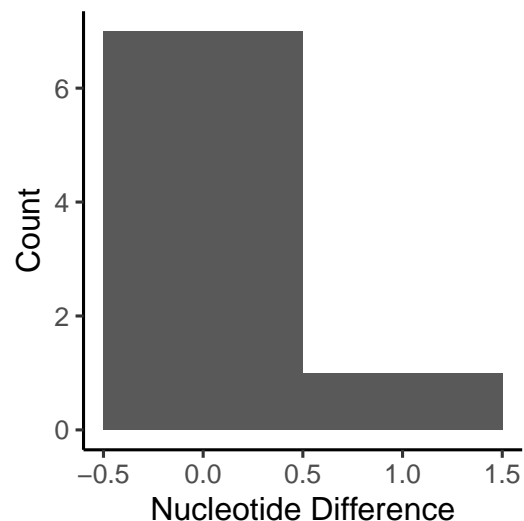
IGHV1-8*01

509 sequences assigned
474 (93.1%) exact matches, in which:
473 unique CDR3
6 unique J



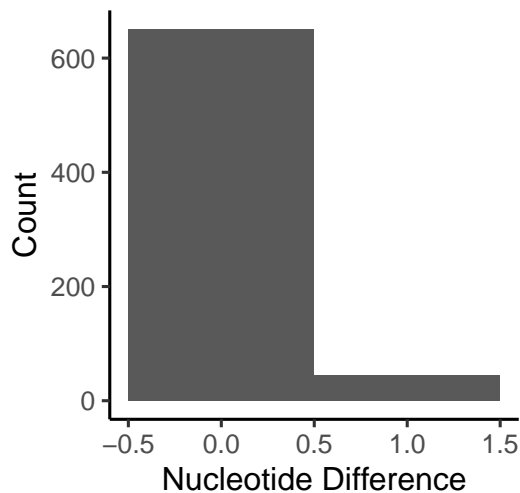
IGHV1-45*02

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
3 unique J



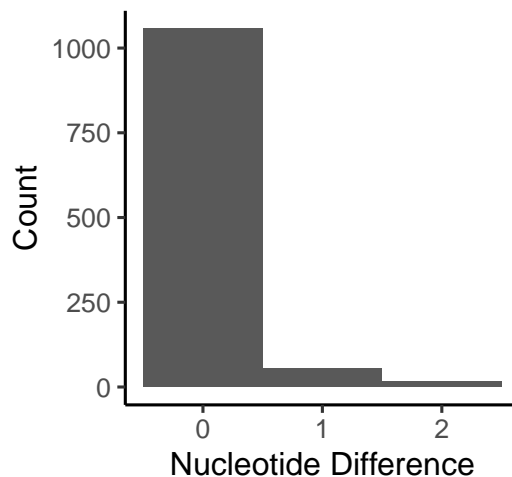
IGHV1-2*06

696 sequences assigned
651 (93.5%) exact matches, in which:
649 unique CDR3
6 unique J



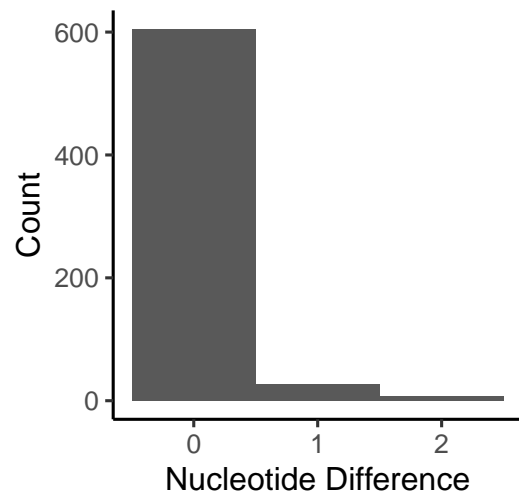
IGHV1-18*01

1129 sequences assigned
1057 (93.6%) exact matches, in which:
1047 unique CDR3
6 unique J



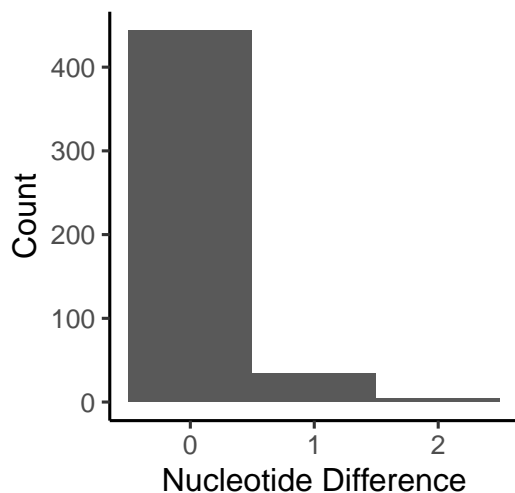
IGHV1-46*01

640 sequences assigned
605 (94.5%) exact matches, in which:
604 unique CDR3
6 unique J



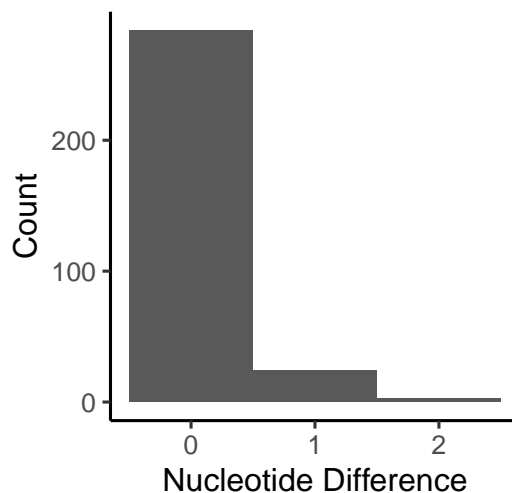
IGHV1-3*01_05

482 sequences assigned
444 (92.1%) exact matches, in which:
442 unique CDR3
6 unique J



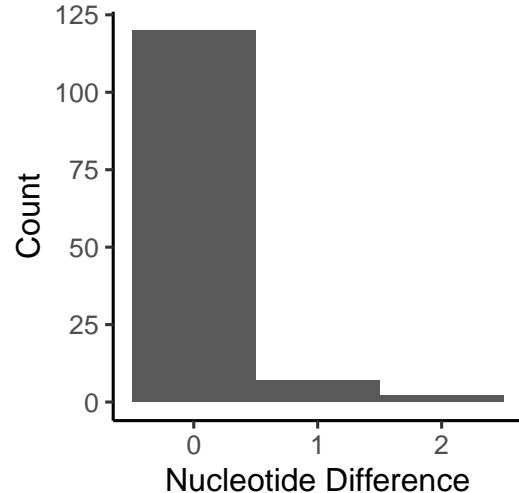
IGHV1-24*01

311 sequences assigned
284 (91.3%) exact matches, in which:
282 unique CDR3
6 unique J



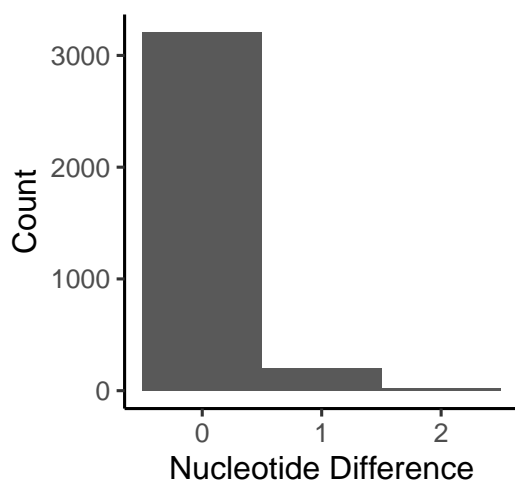
IGHV1-58*01_03

129 sequences assigned
120 (93%) exact matches, in which:
119 unique CDR3
6 unique J



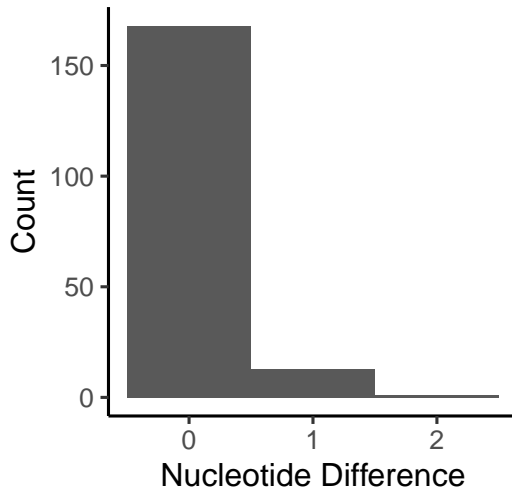
IGHV1-69*01_12_13

3433 sequences assigned
3206 (93.4%) exact matches, in which:
3195 unique CDR3
6 unique J



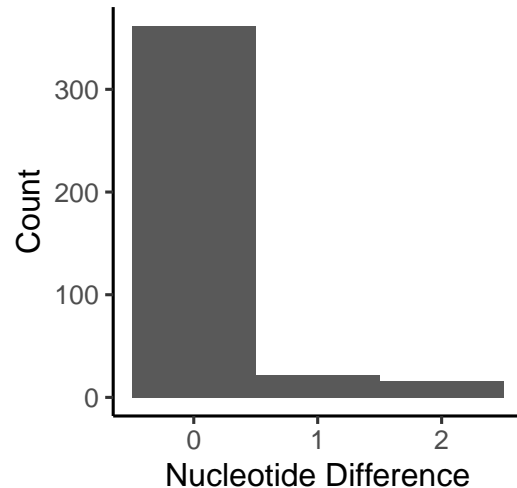
IGHV2-70*01

182 sequences assigned
168 (92.3%) exact matches, in which:
168 unique CDR3
5 unique J



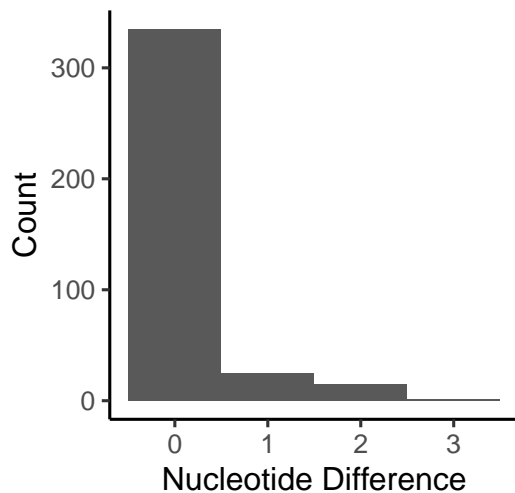
IGHV3-9*01

400 sequences assigned
362 (90.5%) exact matches, in which:
357 unique CDR3
6 unique J



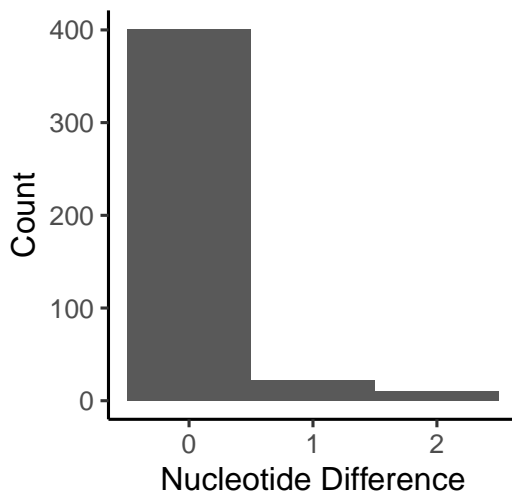
IGHV2-5*02

376 sequences assigned
335 (89.1%) exact matches, in which:
334 unique CDR3
6 unique J



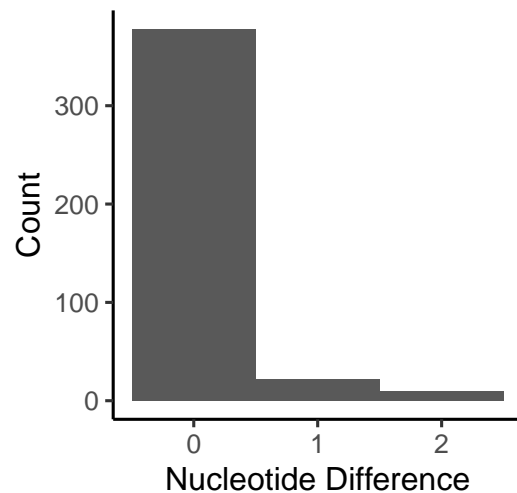
IGHV3-7*01

433 sequences assigned
401 (92.6%) exact matches, in which:
397 unique CDR3
6 unique J



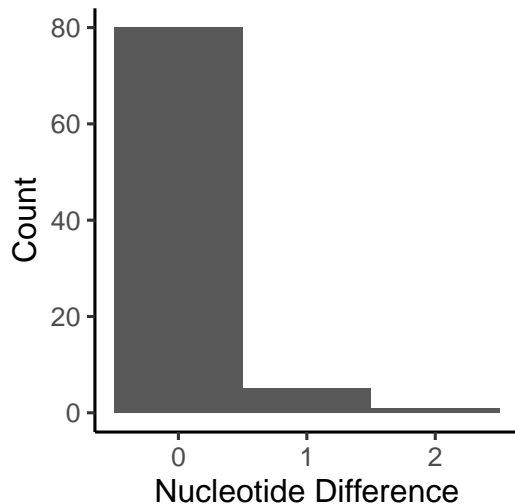
IGHV3-11*01

410 sequences assigned
378 (92.2%) exact matches, in which:
363 unique CDR3
6 unique J



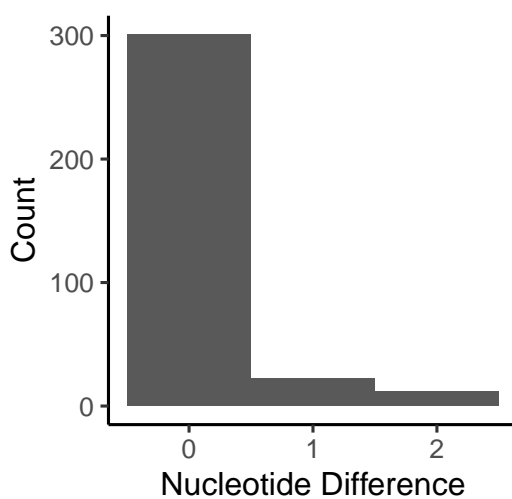
IGHV2-26*01

86 sequences assigned
80 (93%) exact matches, in which:
80 unique CDR3
5 unique J



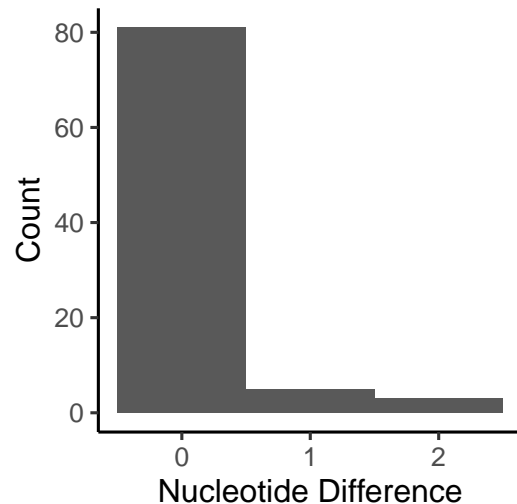
IGHV3-7*03

335 sequences assigned
301 (89.9%) exact matches, in which:
291 unique CDR3
6 unique J



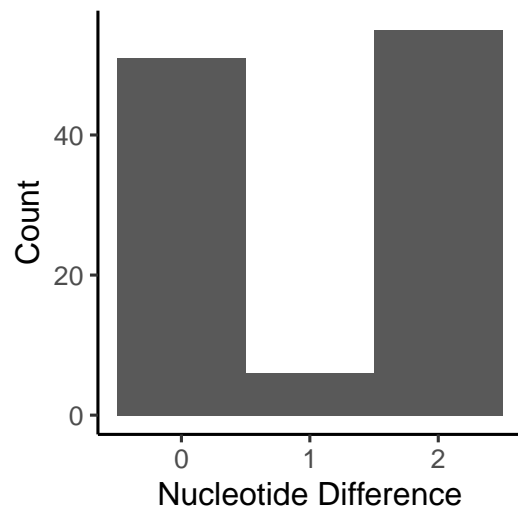
IGHV3-11*06

89 sequences assigned
81 (91%) exact matches, in which:
78 unique CDR3
5 unique J



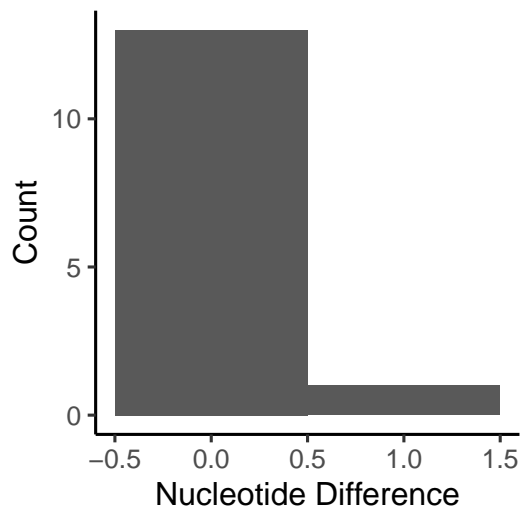
IGHV3-13*01

112 sequences assigned
51 (45.5%) exact matches, in which:
50 unique CDR3
6 unique J



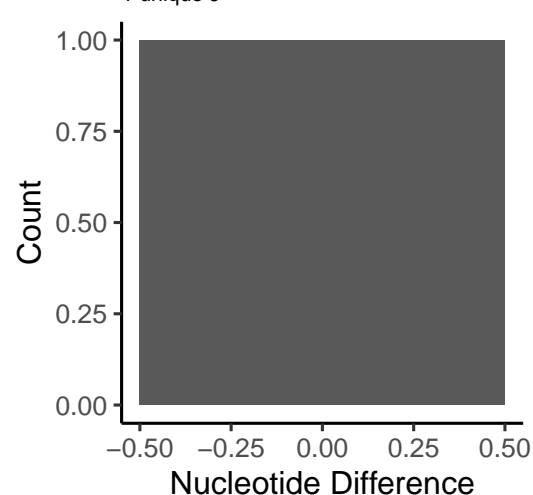
IGHV3-20*03_04

14 sequences assigned
13 (92.9%) exact matches, in which:
13 unique CDR3
3 unique J



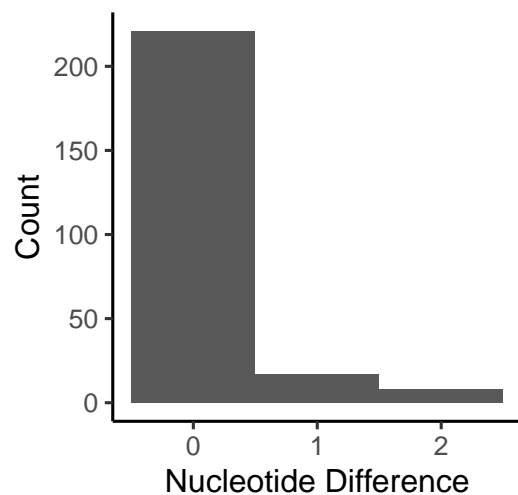
IGHV3-30-3*01

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



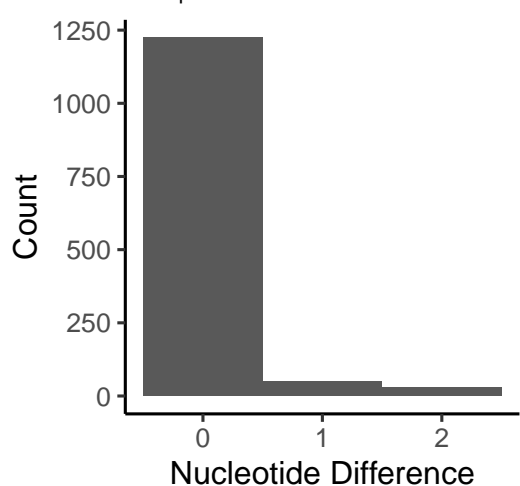
IGHV3-15*07

246 sequences assigned
221 (89.8%) exact matches, in which:
220 unique CDR3
4 unique J



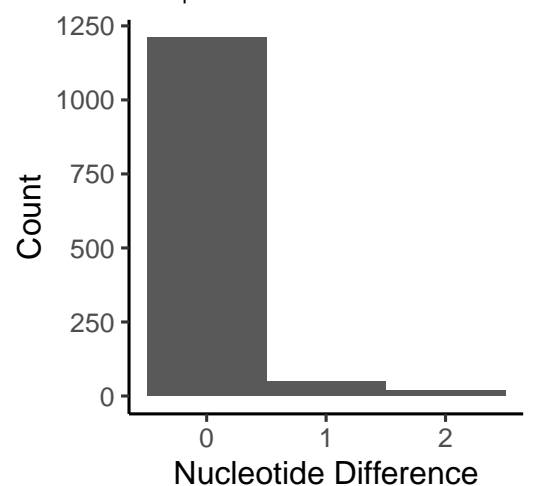
IGHV3-21*01_02

1302 sequences assigned
1224 (94%) exact matches, in which:
1202 unique CDR3
6 unique J



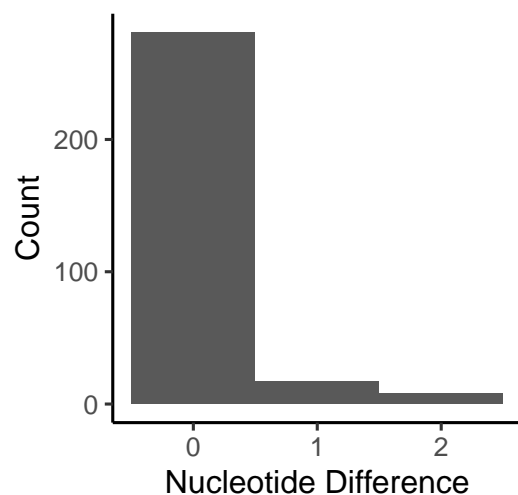
IGHV3-30*02

1276 sequences assigned
1210 (94.8%) exact matches, in which:
1186 unique CDR3
6 unique J



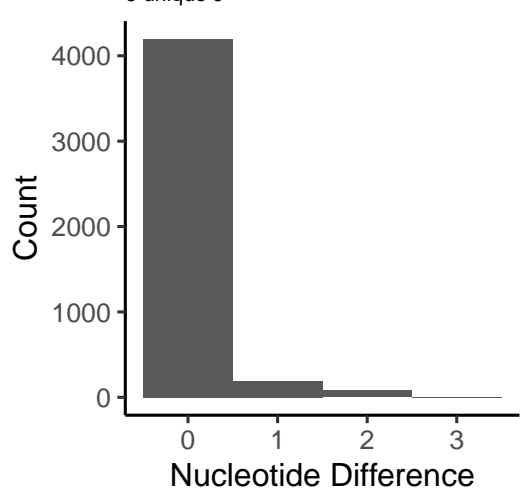
IGHV3-15*01_02

306 sequences assigned
281 (91.8%) exact matches, in which:
280 unique CDR3
6 unique J



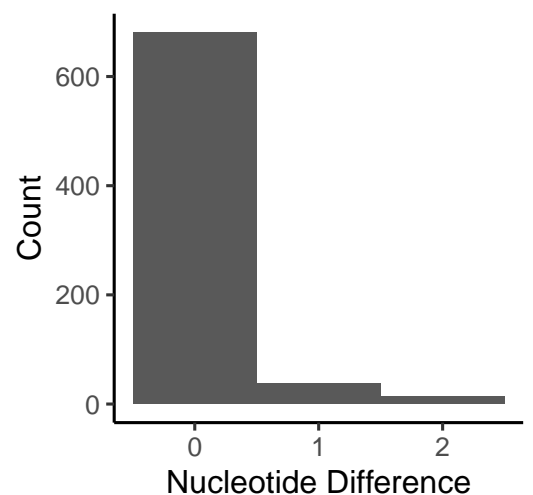
IGHV3-23*01_04

4466 sequences assigned
4196 (94%) exact matches, in which:
4101 unique CDR3
6 unique J



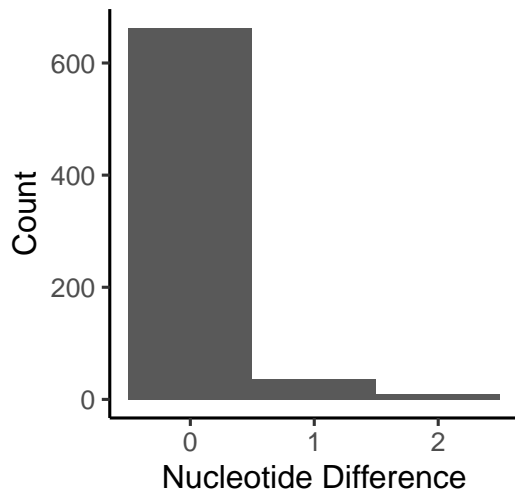
IGHV3-30*04

732 sequences assigned
681 (93%) exact matches, in which:
672 unique CDR3
6 unique J



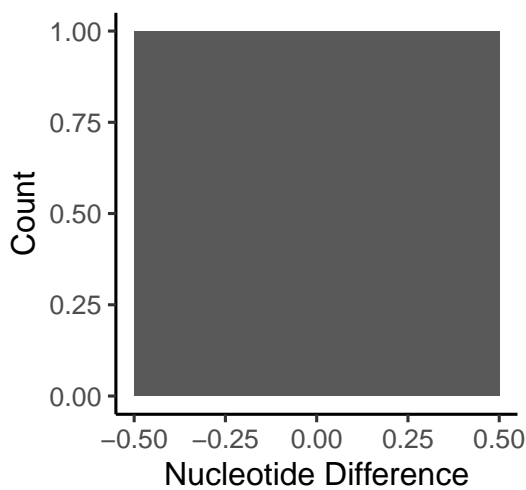
IGHV3–30*18

708 sequences assigned
663 (93.6%) exact matches, in which:
657 unique CDR3
6 unique J



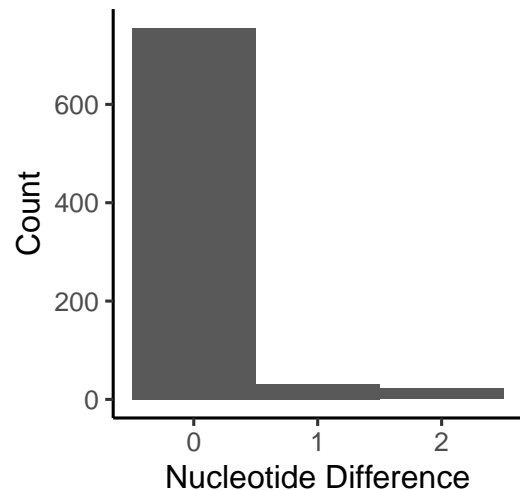
IGHV3–47*02

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



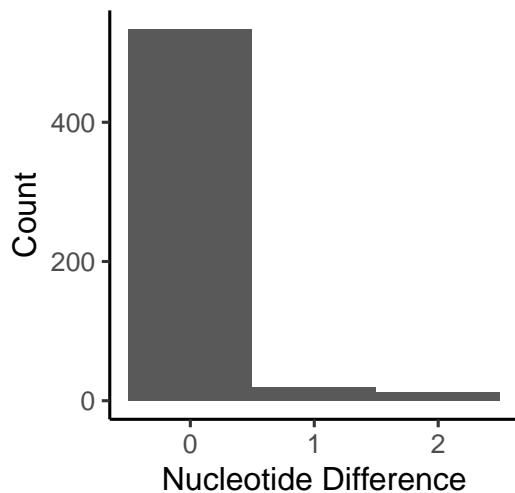
IGHV3–53*01_02

809 sequences assigned
756 (93.4%) exact matches, in which:
742 unique CDR3
6 unique J



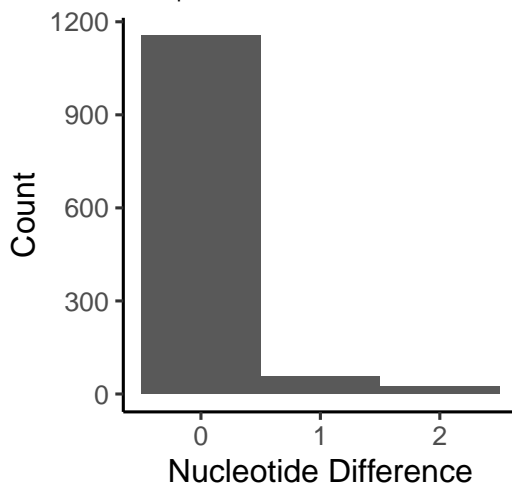
IGHV3–33*01

566 sequences assigned
534 (94.3%) exact matches, in which:
527 unique CDR3
6 unique J



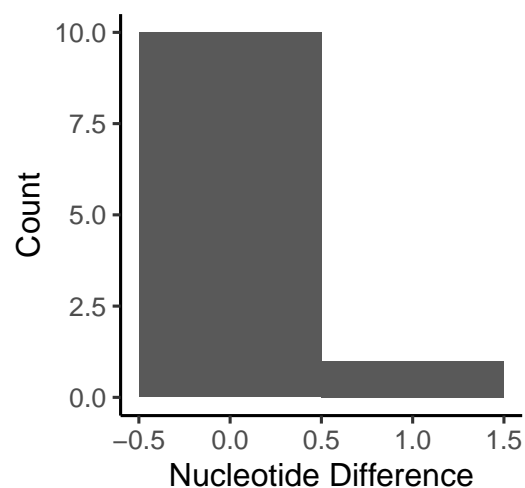
IGHV3–48*02

1235 sequences assigned
1155 (93.5%) exact matches, in which:
1137 unique CDR3
6 unique J



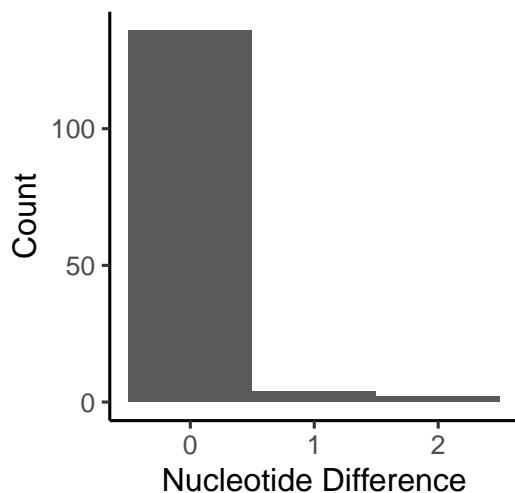
IGHV3–64*02_07

11 sequences assigned
10 (90.9%) exact matches, in which:
10 unique CDR3
4 unique J



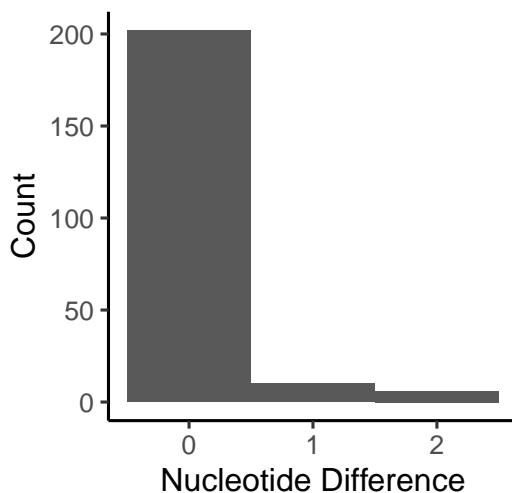
IGHV3–43*01

142 sequences assigned
136 (95.8%) exact matches, in which:
133 unique CDR3
6 unique J



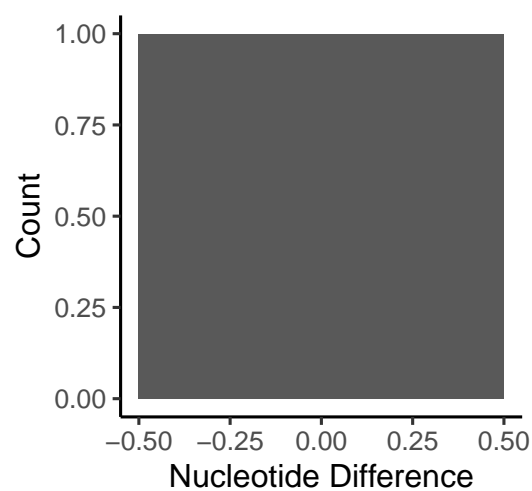
IGHV3–49*03_05

218 sequences assigned
202 (92.7%) exact matches, in which:
201 unique CDR3
6 unique J



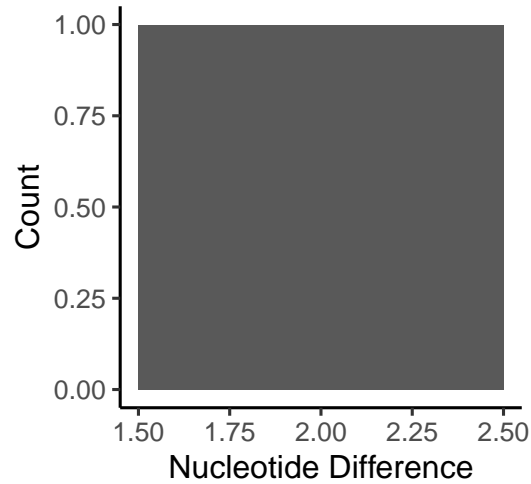
IGHV3–66*03

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



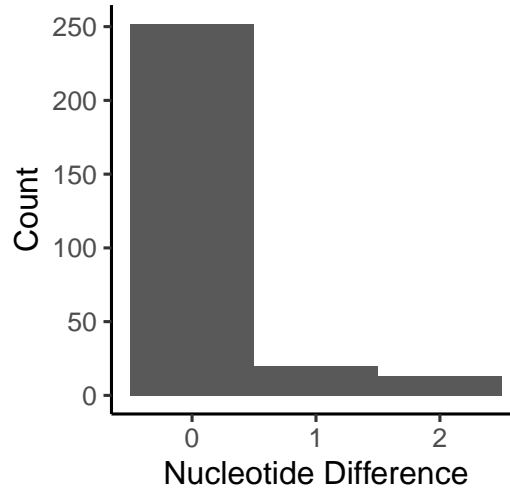
IGHV3-66*04

1 sequences assigned
No exact matches.



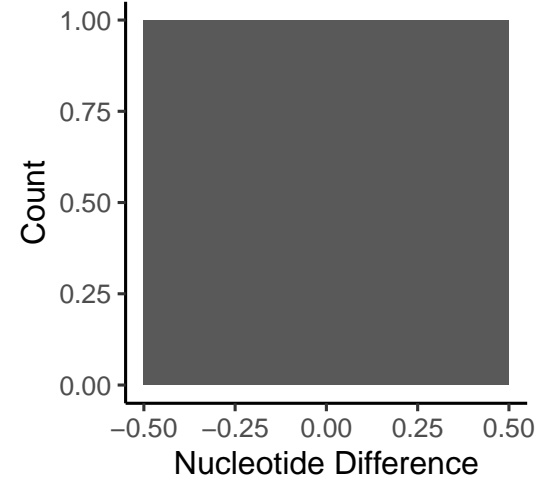
IGHV3-74*01_02

285 sequences assigned
252 (88.4%) exact matches, in which:
249 unique CDR3
6 unique J



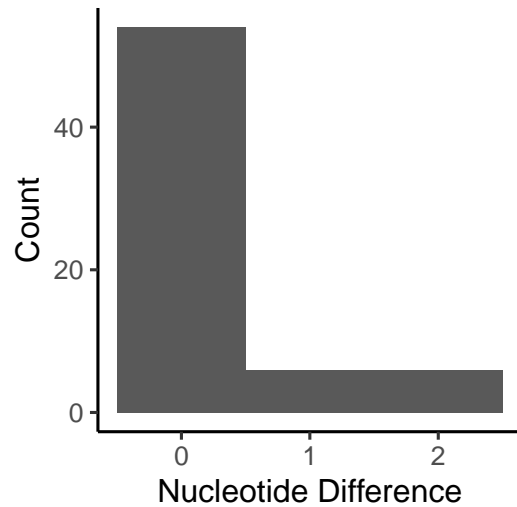
IGHV4-28*03

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



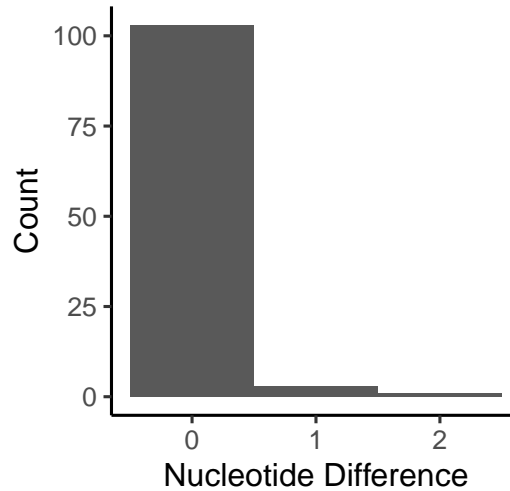
IGHV3-72*01

66 sequences assigned
54 (81.8%) exact matches, in which:
53 unique CDR3
5 unique J



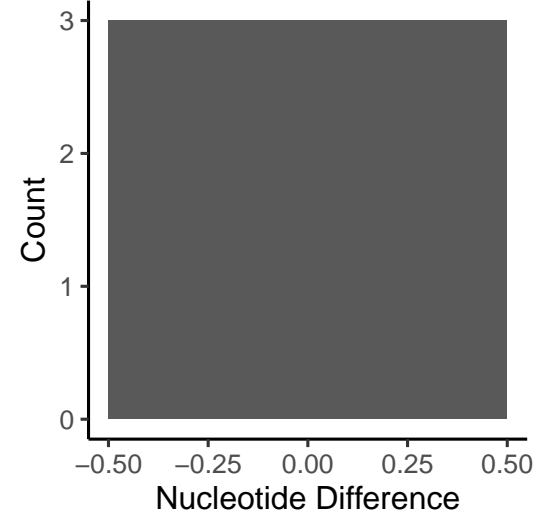
IGHV3-64D*06

107 sequences assigned
103 (96.3%) exact matches, in which:
101 unique CDR3
6 unique J



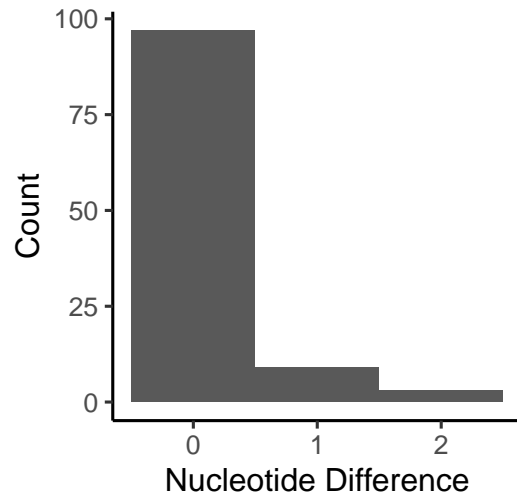
IGHV4-28*01_07

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



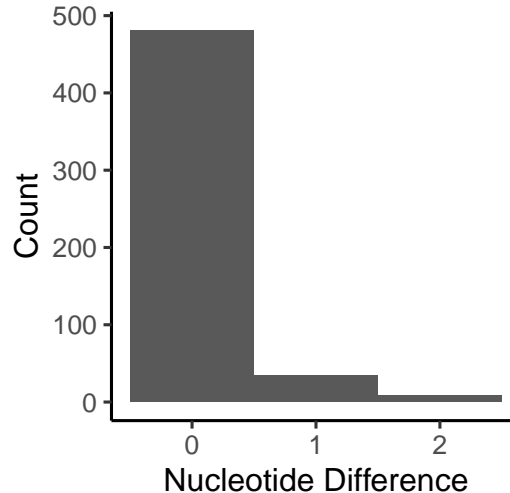
IGHV3-73*01_02

109 sequences assigned
97 (89%) exact matches, in which:
95 unique CDR3
6 unique J



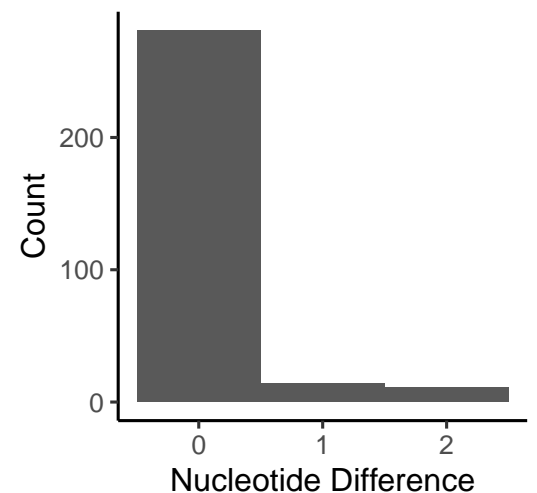
IGHV4-4*02_03

523 sequences assigned
481 (92%) exact matches, in which:
480 unique CDR3
6 unique J



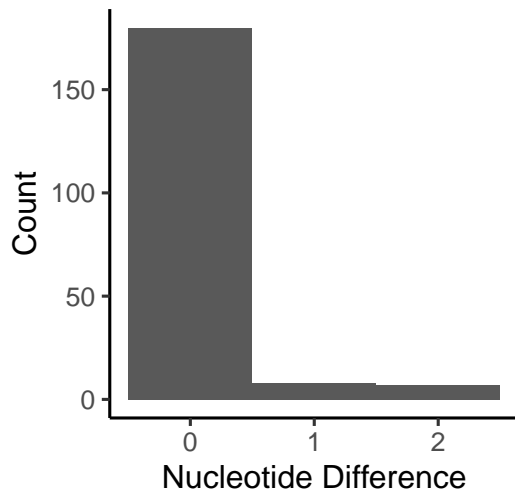
IGHV4-30-2*01

306 sequences assigned
281 (91.8%) exact matches, in which:
276 unique CDR3
6 unique J



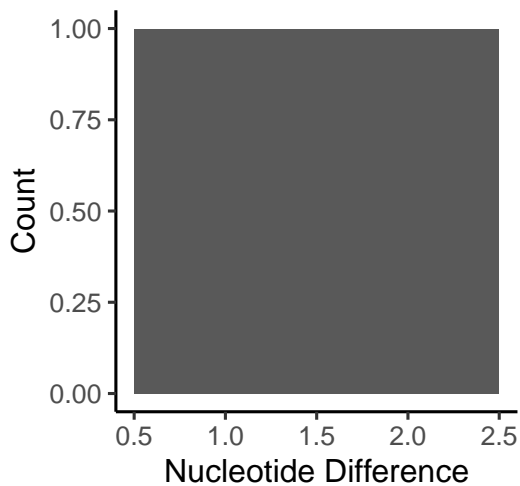
IGHV4-30-4*07

195 sequences assigned
180 (92.3%) exact matches, in which:
176 unique CDR3
5 unique J



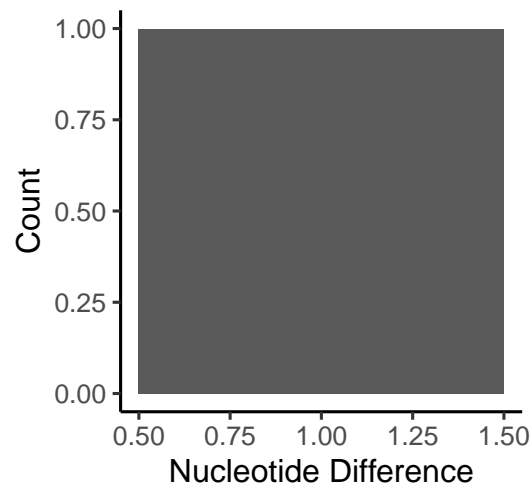
IGHV4-39*02

2 sequences assigned
No exact matches.



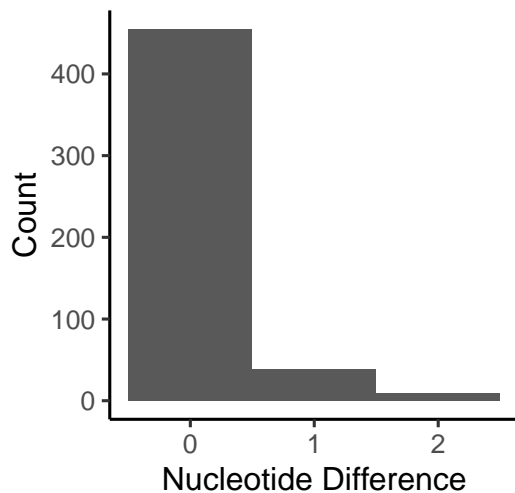
IGHV4-59*11

1 sequences assigned
No exact matches.



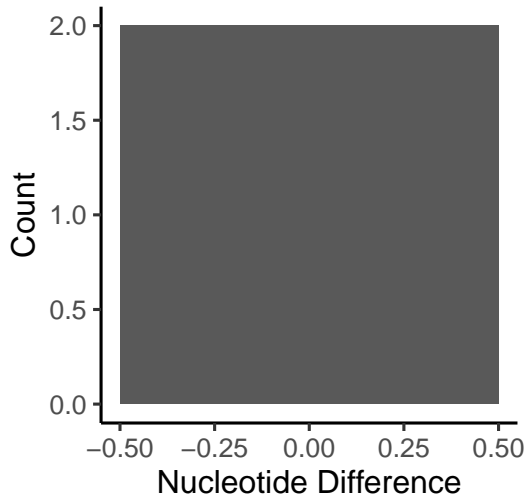
IGHV4-31*02

502 sequences assigned
455 (90.6%) exact matches, in which:
449 unique CDR3
6 unique J



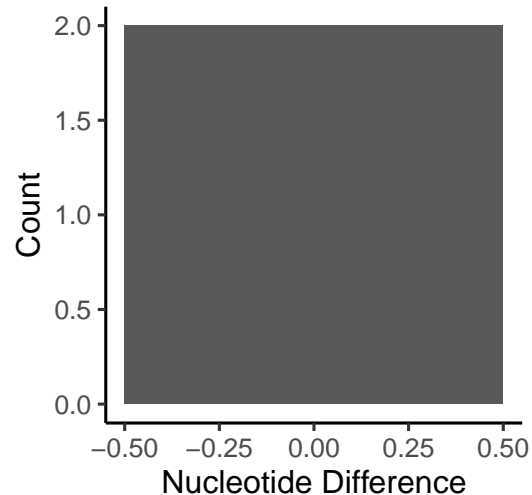
IGHV4-39*07

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



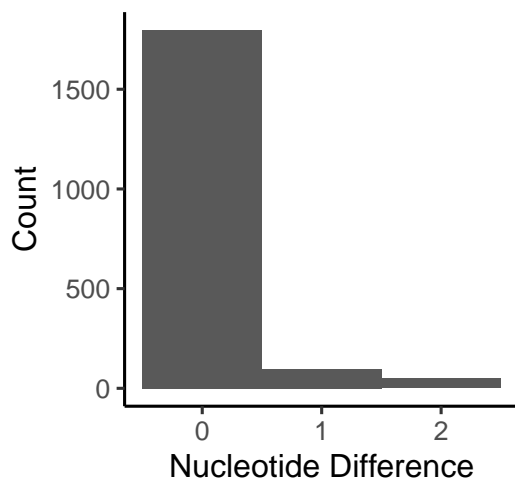
IGHV4-59*13

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



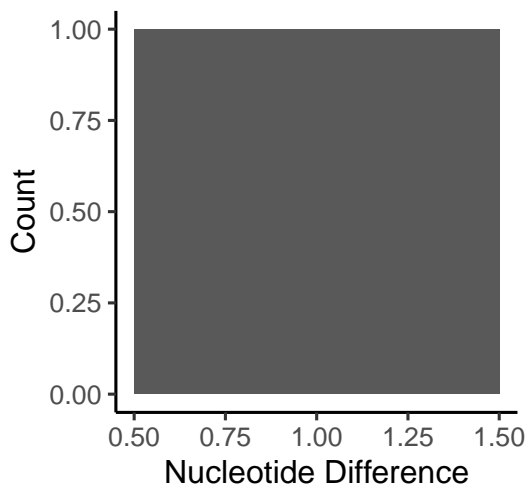
IGHV4-34*01_02

1943 sequences assigned
1797 (92.5%) exact matches, in which:
1751 unique CDR3
6 unique J



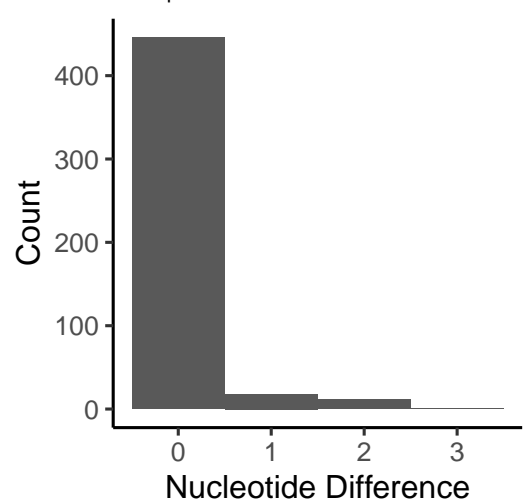
IGHV4-59*08

1 sequences assigned
No exact matches.



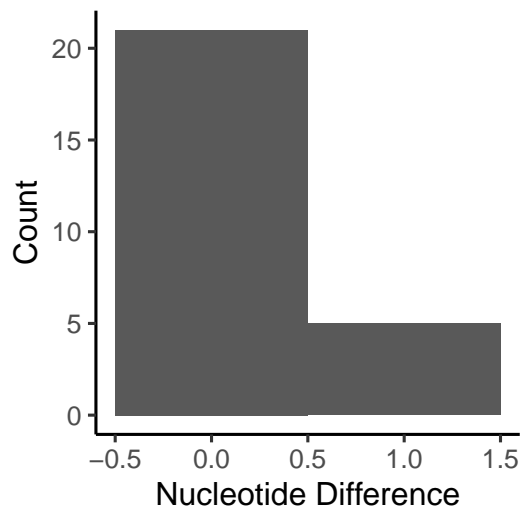
IGHV4-61*01

476 sequences assigned
446 (93.7%) exact matches, in which:
438 unique CDR3
6 unique J



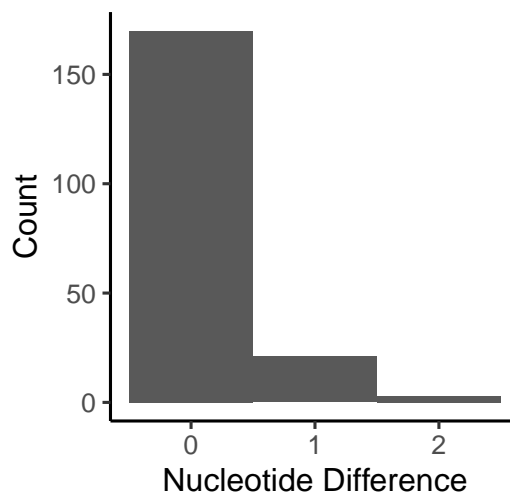
IGHV5-10-1*01_03

26 sequences assigned
21 (80.8%) exact matches, in which:
21 unique CDR3
5 unique J



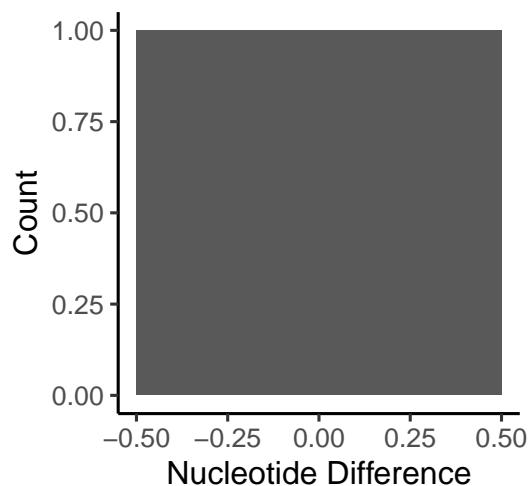
IGHV7-4-1*02

194 sequences assigned
170 (87.6%) exact matches, in which:
169 unique CDR3
6 unique J



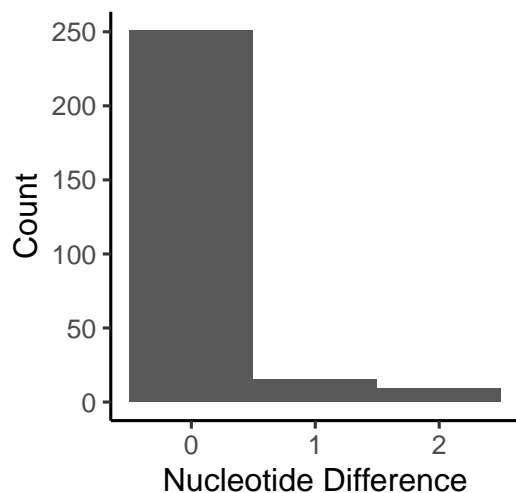
IGHV5-51*07

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



IGHV6-1*01_02

275 sequences assigned
251 (91.3%) exact matches, in which:
250 unique CDR3
6 unique J





Warning – no inferred sequences found.