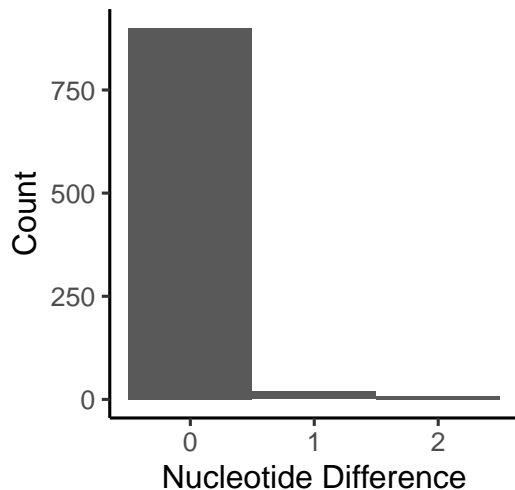


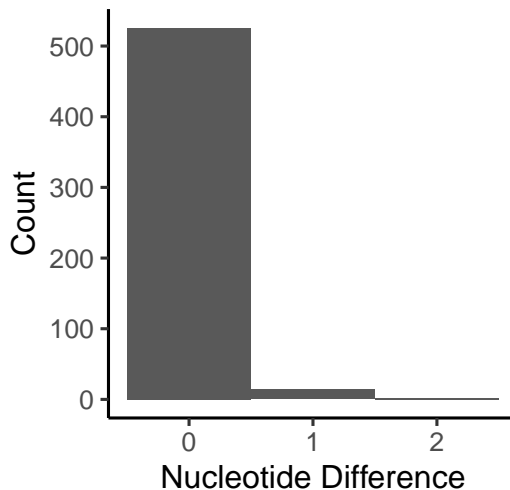
IGHV1-2*02

928 sequences assigned
901 (97.1%) exact matches, in which:
901 unique CDR3
6 unique J



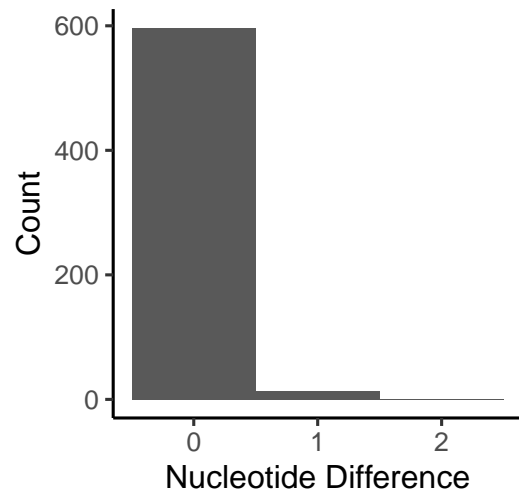
IGHV1-8*01

542 sequences assigned
526 (97%) exact matches, in which:
524 unique CDR3
6 unique J



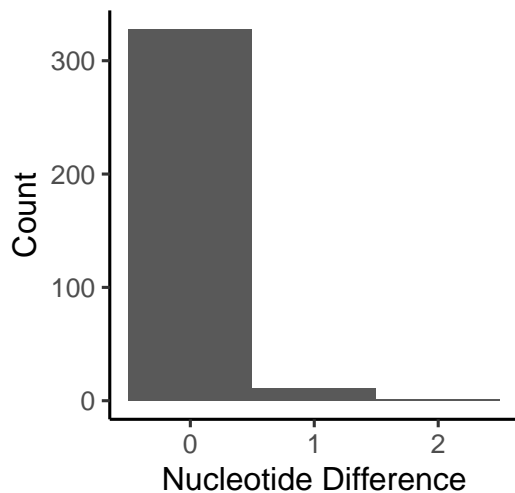
IGHV1-24*01

611 sequences assigned
597 (97.7%) exact matches, in which:
596 unique CDR3
6 unique J



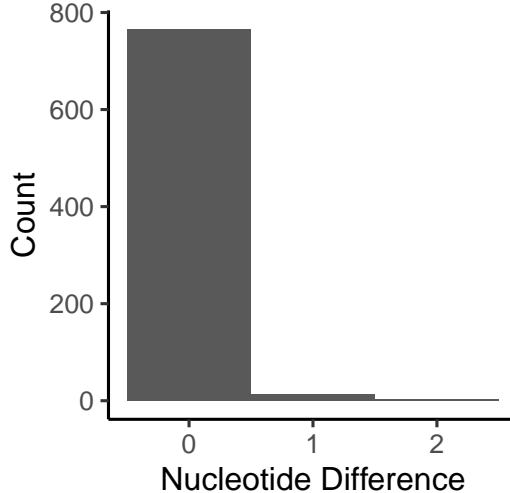
IGHV1-2*04

340 sequences assigned
328 (96.5%) exact matches, in which:
327 unique CDR3
5 unique J



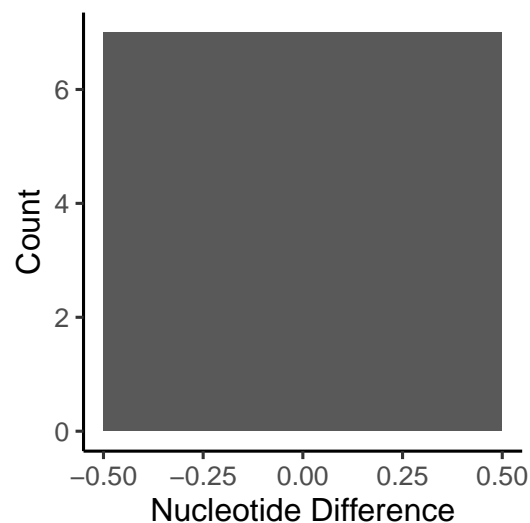
IGHV1-18*01

783 sequences assigned
766 (97.8%) exact matches, in which:
765 unique CDR3
6 unique J



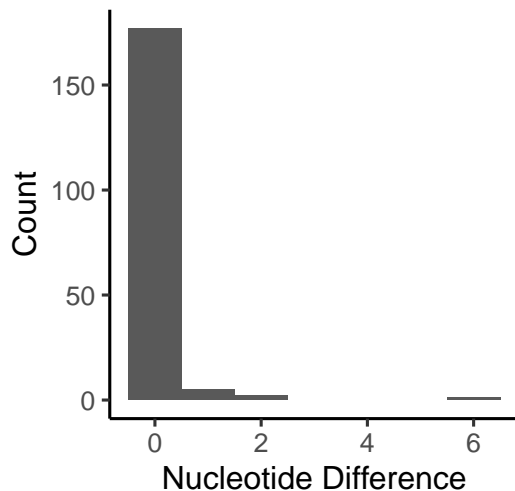
IGHV1-45*02

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
3 unique J



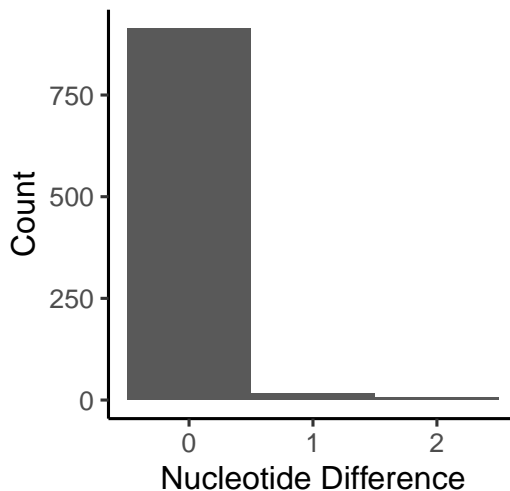
IGHV1-3*01_05

185 sequences assigned
177 (95.7%) exact matches, in which:
177 unique CDR3
6 unique J



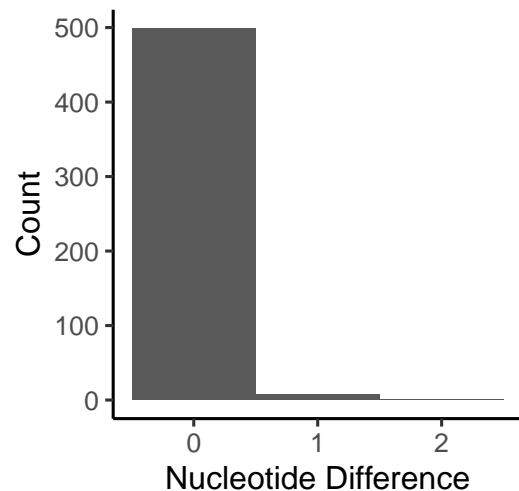
IGHV1-18*04

936 sequences assigned
914 (97.6%) exact matches, in which:
909 unique CDR3
6 unique J



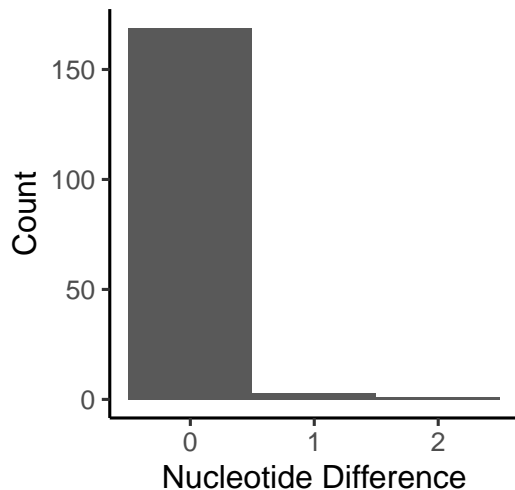
IGHV1-46*01

508 sequences assigned
499 (98.2%) exact matches, in which:
498 unique CDR3
6 unique J



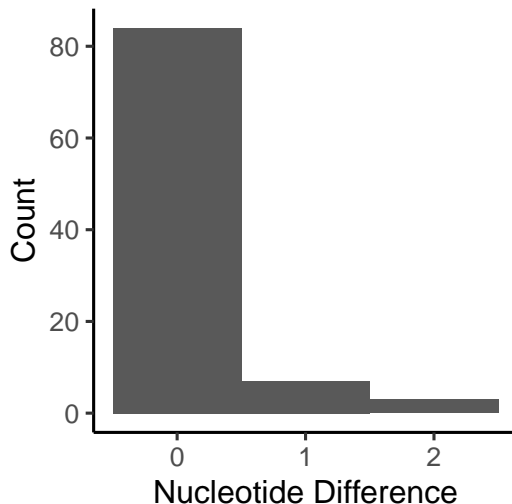
IGHV1–58*01_03

173 sequences assigned
169 (97.7%) exact matches, in which:
169 unique CDR3
5 unique J



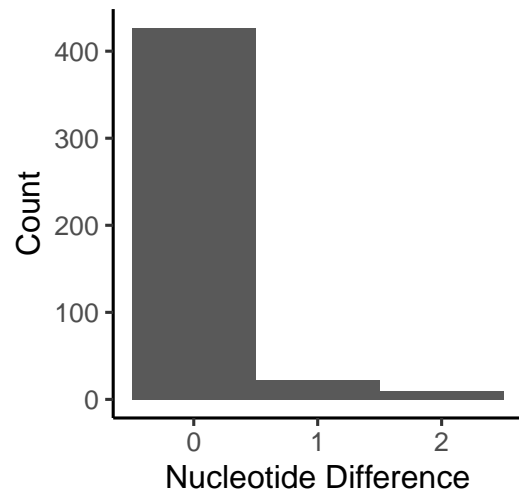
IGHV2–5*02

94 sequences assigned
84 (89.4%) exact matches, in which:
84 unique CDR3
6 unique J



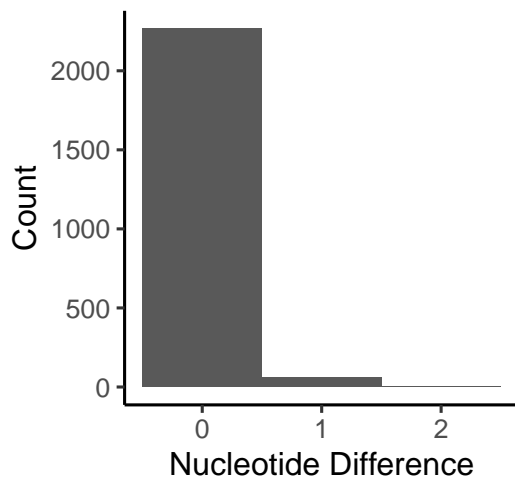
IGHV3–7*01

459 sequences assigned
427 (93%) exact matches, in which:
421 unique CDR3
6 unique J



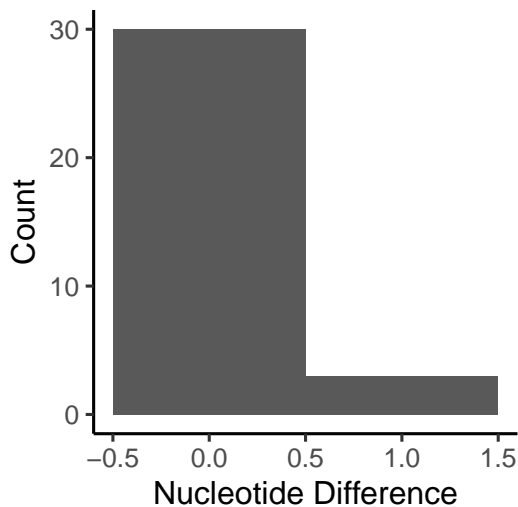
IGHV1–69*01_12_13

2326 sequences assigned
2266 (97.4%) exact matches, in which:
2262 unique CDR3
6 unique J



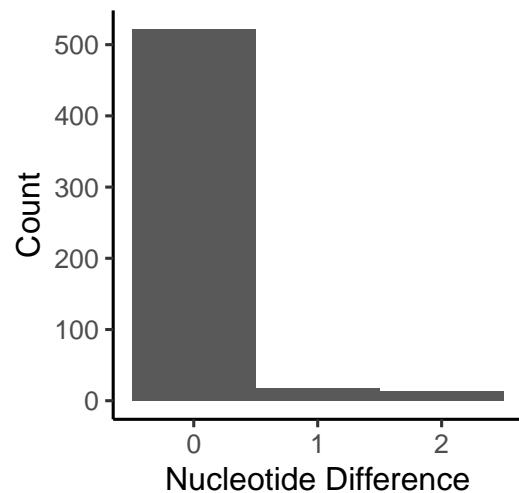
IGHV2–26*01

33 sequences assigned
30 (90.9%) exact matches, in which:
30 unique CDR3
5 unique J



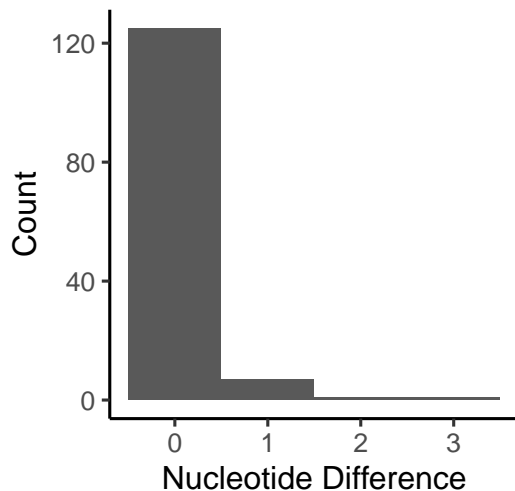
IGHV3–7*03

552 sequences assigned
522 (94.6%) exact matches, in which:
519 unique CDR3
6 unique J



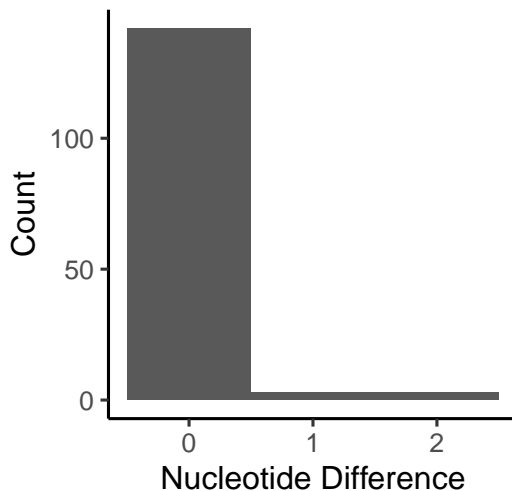
IGHV2–5*01

134 sequences assigned
125 (93.3%) exact matches, in which:
125 unique CDR3
6 unique J



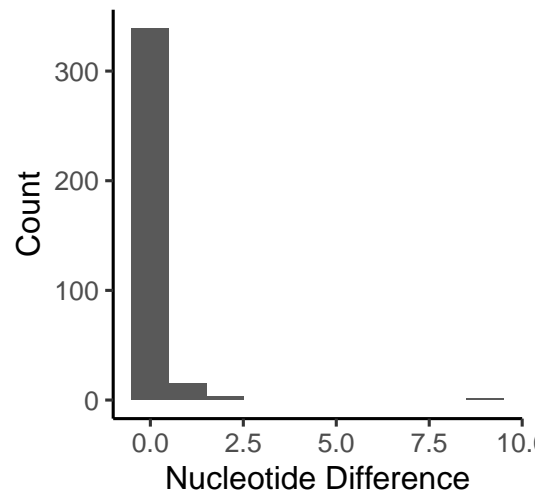
IGHV2–70*01

148 sequences assigned
142 (95.9%) exact matches, in which:
142 unique CDR3
5 unique J



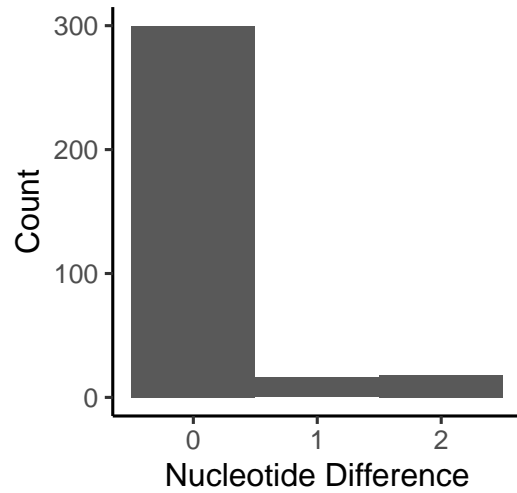
IGHV3–9*01

358 sequences assigned
339 (94.7%) exact matches, in which:
336 unique CDR3
6 unique J



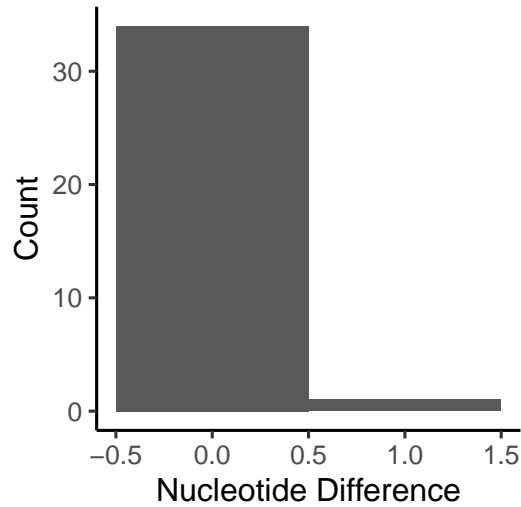
IGHV3-11*01

334 sequences assigned
300 (89.8%) exact matches, in which:
300 unique CDR3
6 unique J



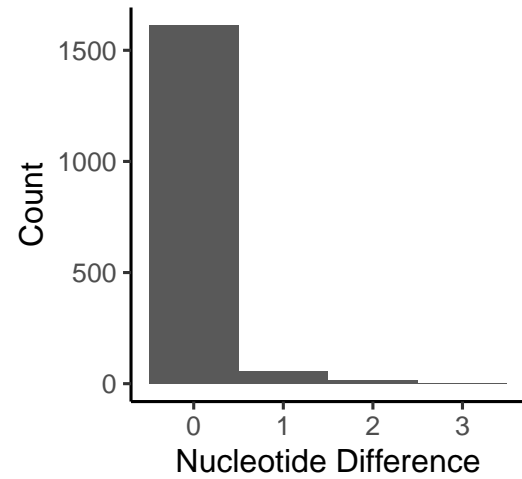
IGHV3-13*05

35 sequences assigned
34 (97.1%) exact matches, in which:
33 unique CDR3
5 unique J



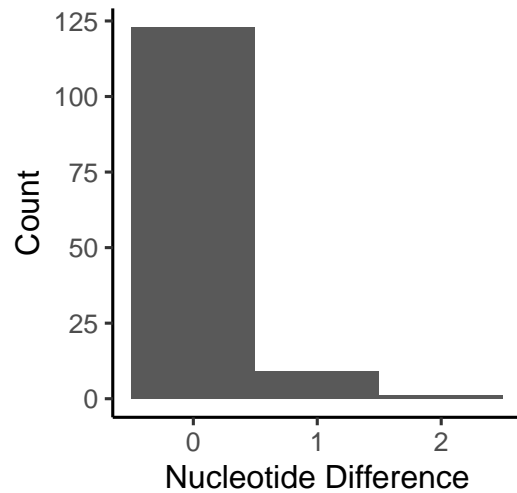
IGHV3-21*01_02

1686 sequences assigned
1612 (95.6%) exact matches, in which:
1595 unique CDR3
6 unique J



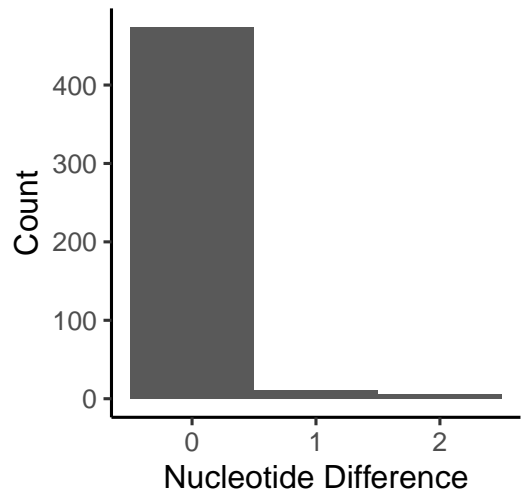
IGHV3-11*06

133 sequences assigned
123 (92.5%) exact matches, in which:
122 unique CDR3
5 unique J



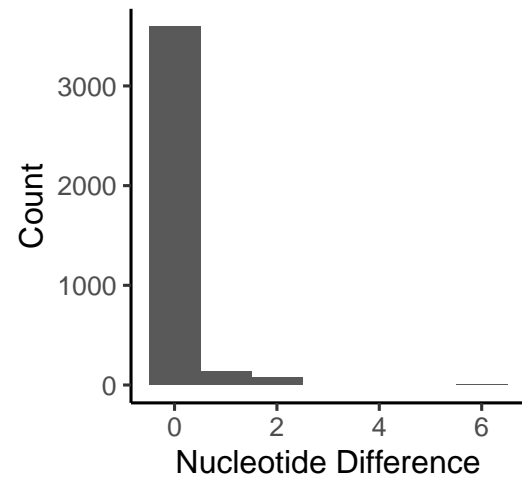
IGHV3-15*01_02

491 sequences assigned
474 (96.5%) exact matches, in which:
472 unique CDR3
6 unique J



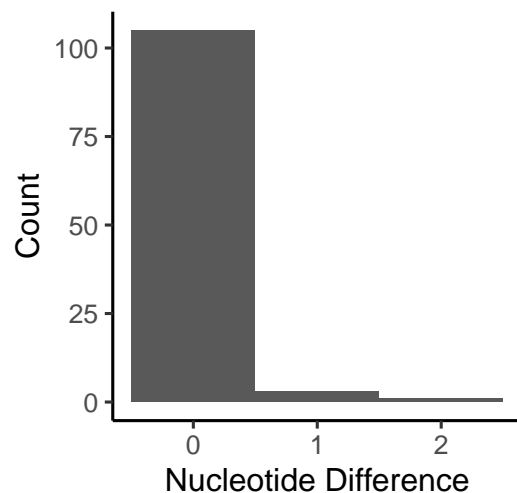
IGHV3-23*01_04

3807 sequences assigned
3594 (94.4%) exact matches, in which:
3561 unique CDR3
6 unique J



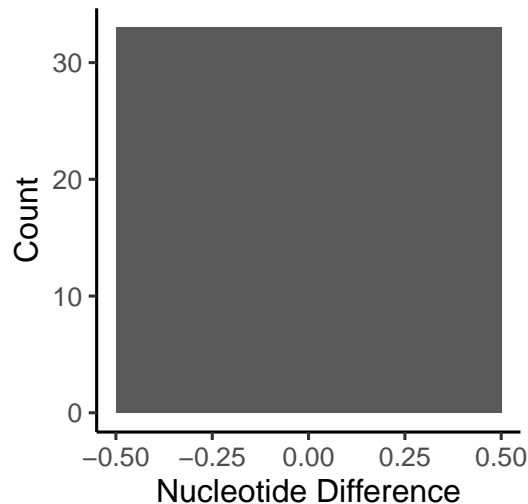
IGHV3-13*01

109 sequences assigned
105 (96.3%) exact matches, in which:
104 unique CDR3
6 unique J



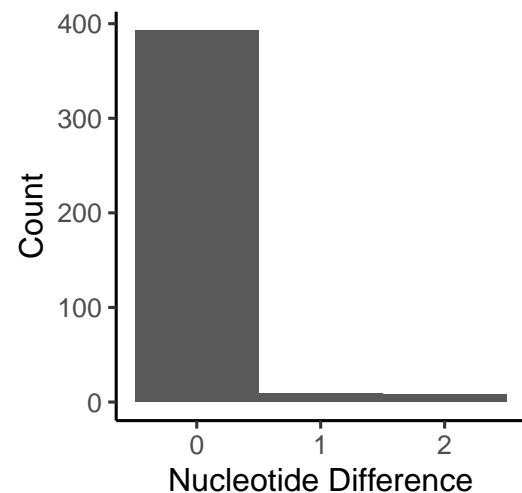
IGHV3-20*01_02

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



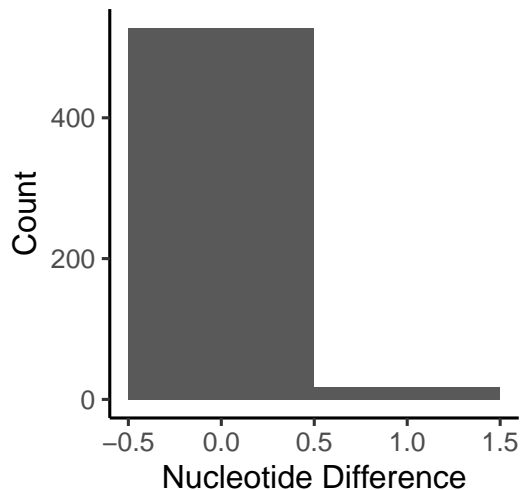
IGHV3-33*01

410 sequences assigned
393 (95.9%) exact matches, in which:
392 unique CDR3
6 unique J



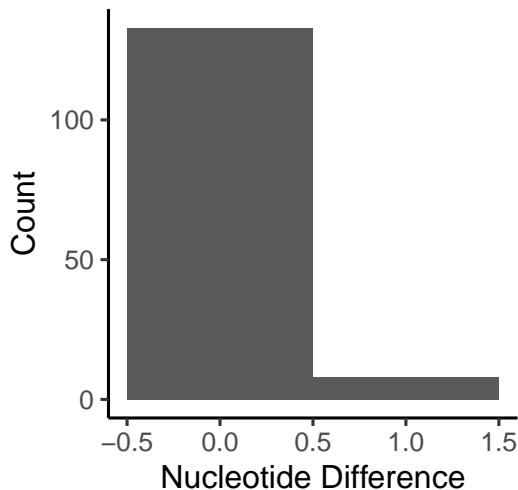
IGHV3–33*08

546 sequences assigned
528 (96.7%) exact matches, in which:
525 unique CDR3
6 unique J



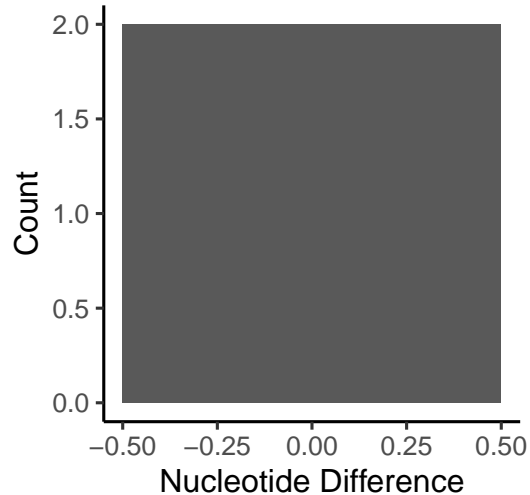
IGHV3–49*03_05

141 sequences assigned
133 (94.3%) exact matches, in which:
132 unique CDR3
6 unique J



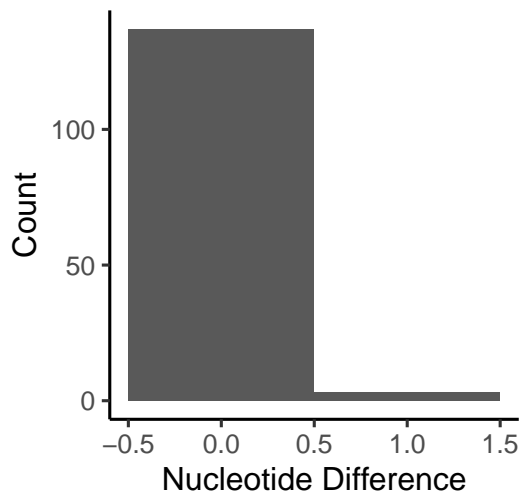
IGHV3–66*03

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



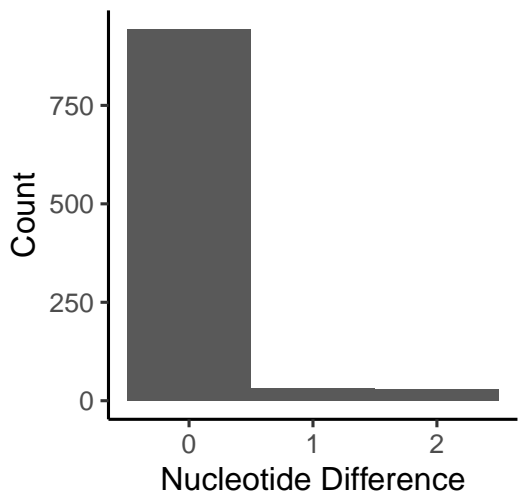
IGHV3–43*01

140 sequences assigned
137 (97.9%) exact matches, in which:
136 unique CDR3
6 unique J



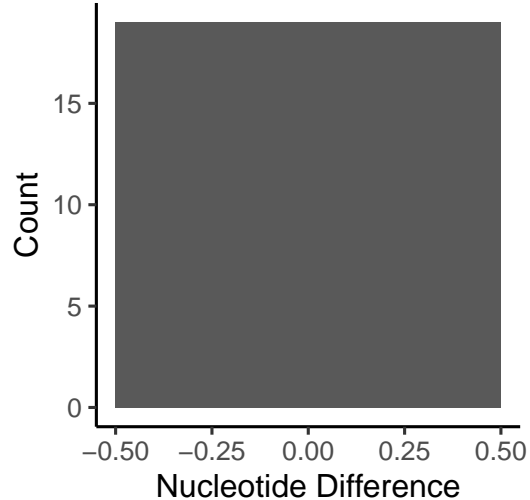
IGHV3–53*01_02

1006 sequences assigned
944 (93.8%) exact matches, in which:
928 unique CDR3
6 unique J



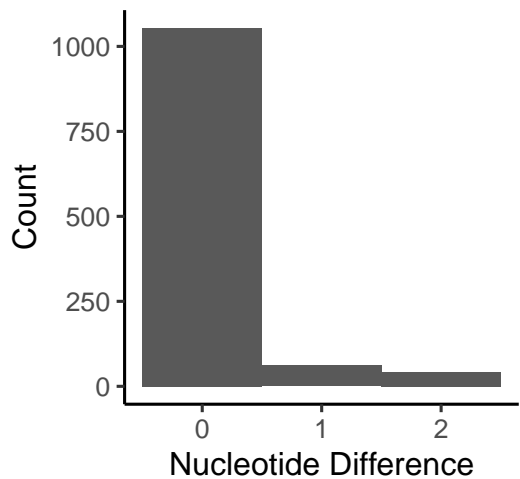
IGHV3–72*01

19 sequences assigned
19 (100%) exact matches, in which:
19 unique CDR3
5 unique J



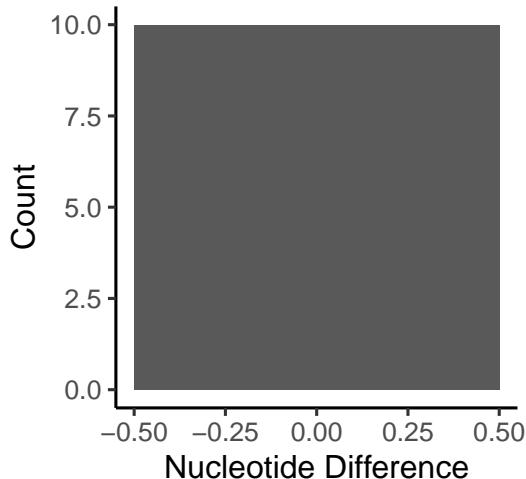
IGHV3–48*02

1158 sequences assigned
1054 (91%) exact matches, in which:
1044 unique CDR3
6 unique J



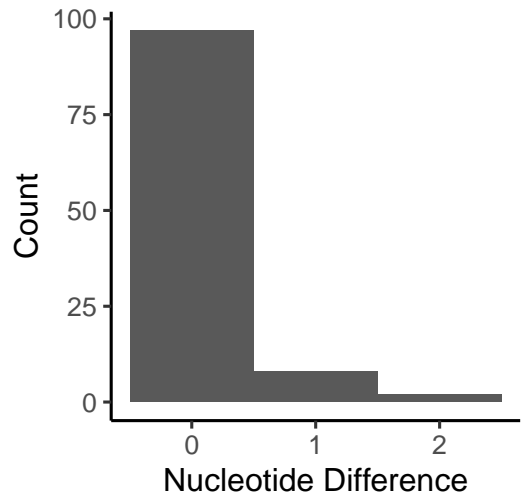
IGHV3–64*02_07

10 sequences assigned
10 (100%) exact matches, in which:
10 unique CDR3
4 unique J



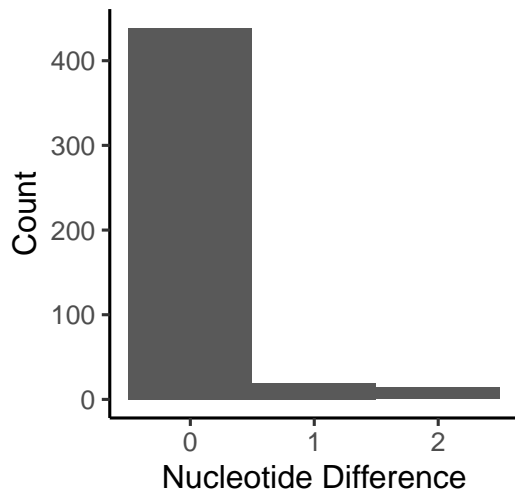
IGHV3–73*01_02

107 sequences assigned
97 (90.7%) exact matches, in which:
96 unique CDR3
5 unique J



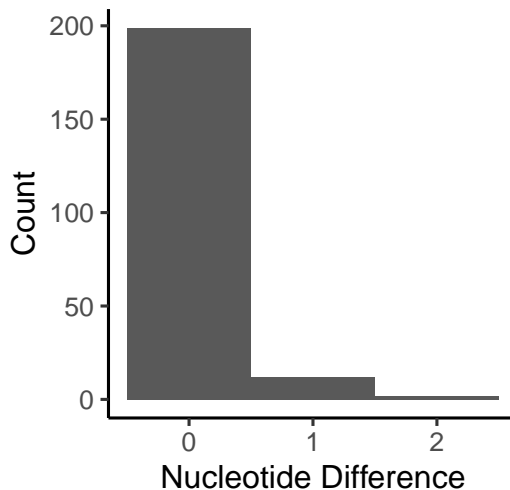
IGHV3-74*01_02

472 sequences assigned
439 (93%) exact matches, in which:
429 unique CDR3
6 unique J



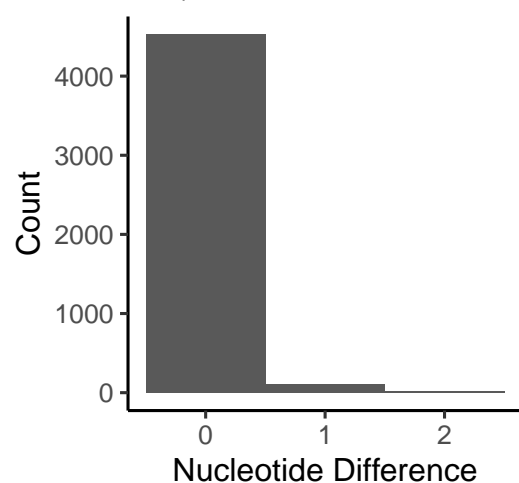
IGHV4-4*02_03

213 sequences assigned
199 (93.4%) exact matches, in which:
199 unique CDR3
6 unique J



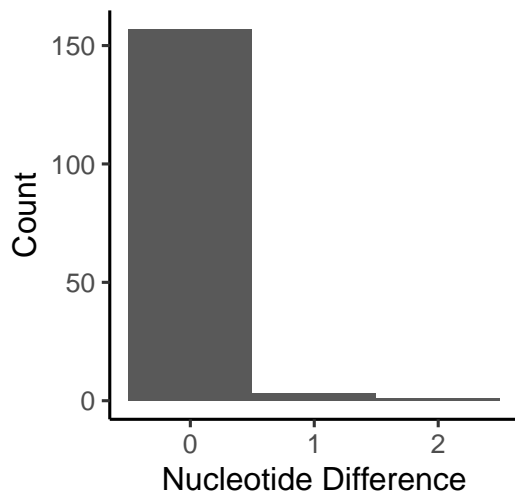
IGHV4-34*01_02

4652 sequences assigned
4527 (97.3%) exact matches, in which:
4487 unique CDR3
6 unique J



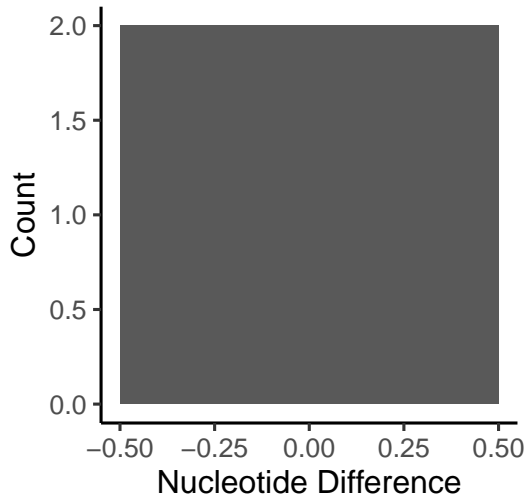
IGHV3-64D*06

161 sequences assigned
157 (97.5%) exact matches, in which:
156 unique CDR3
6 unique J



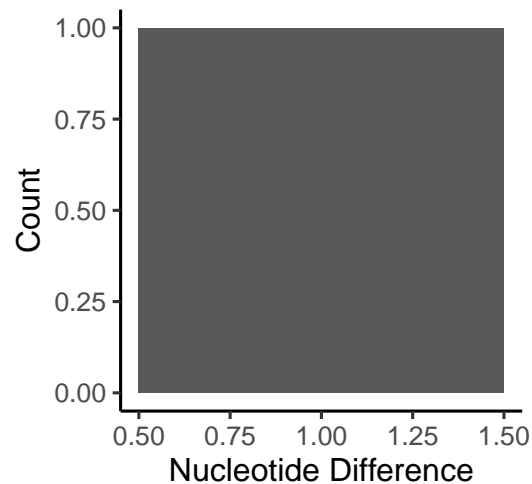
IGHV4-28*01_07

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



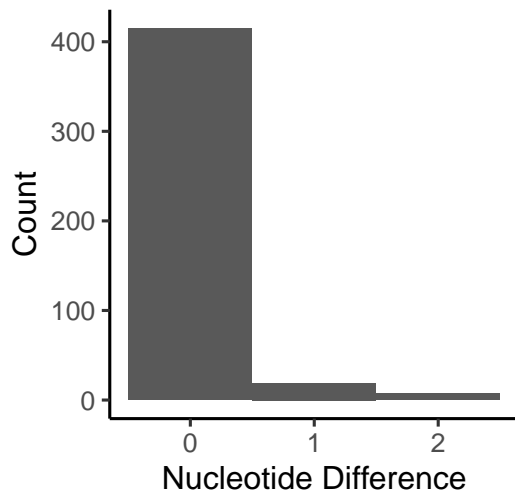
IGHV4-39*02

1 sequences assigned
No exact matches.



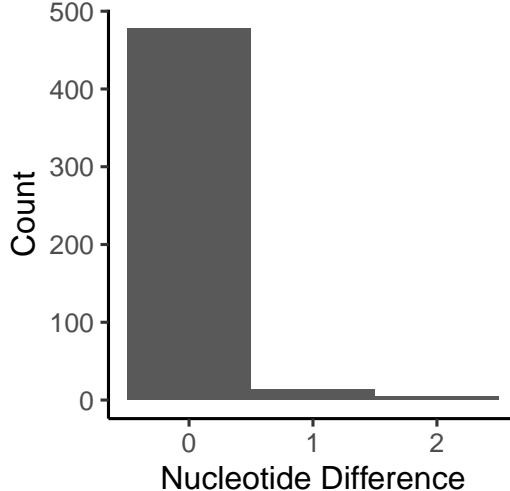
IGHV4-4*07

441 sequences assigned
415 (94.1%) exact matches, in which:
413 unique CDR3
6 unique J



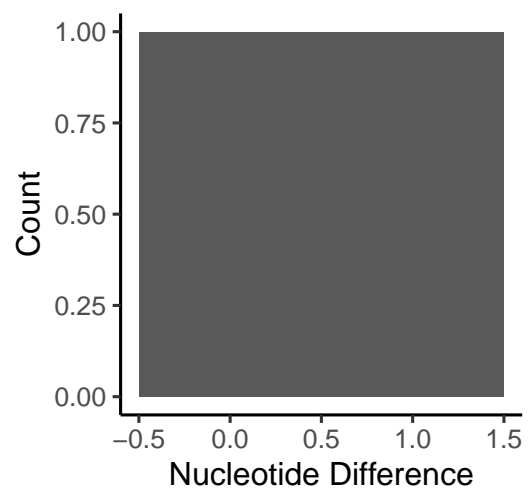
IGHV4-31*02

495 sequences assigned
478 (96.6%) exact matches, in which:
475 unique CDR3
6 unique J



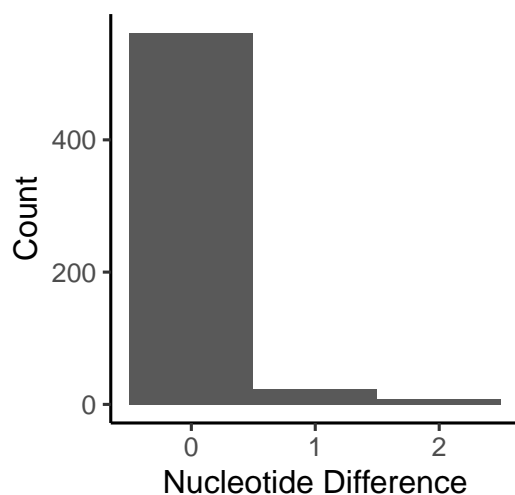
IGHV4-59*11

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
0 unique J



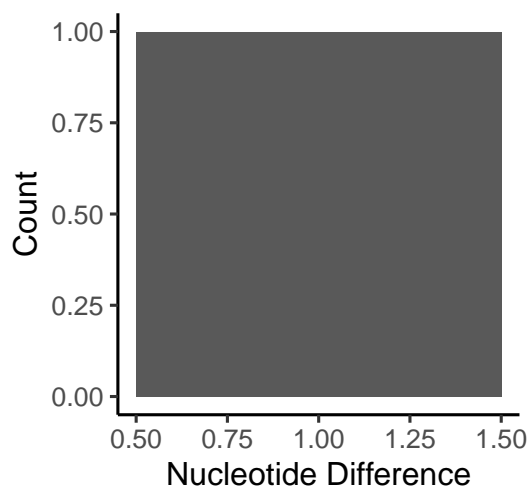
IGHV4–61*01

593 sequences assigned
562 (94.8%) exact matches, in which:
559 unique CDR3
6 unique J



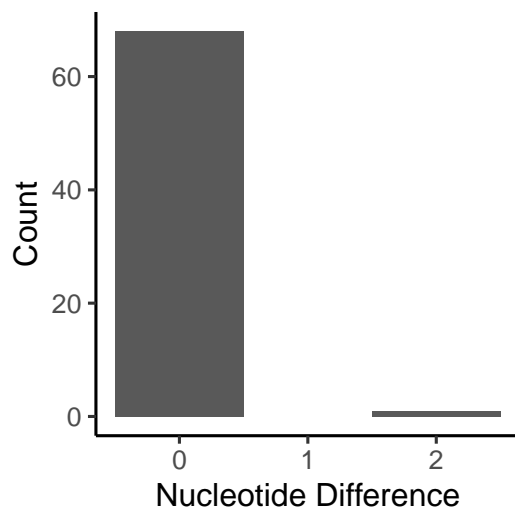
IGHV5–51*01_03

1 sequences assigned
No exact matches.



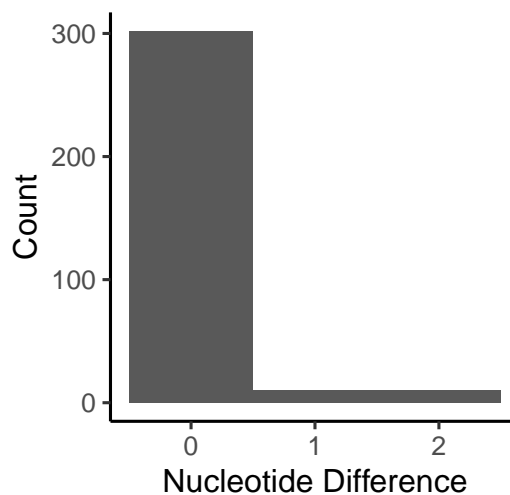
IGHV5–10–1*01_03

69 sequences assigned
68 (98.6%) exact matches, in which:
68 unique CDR3
5 unique J



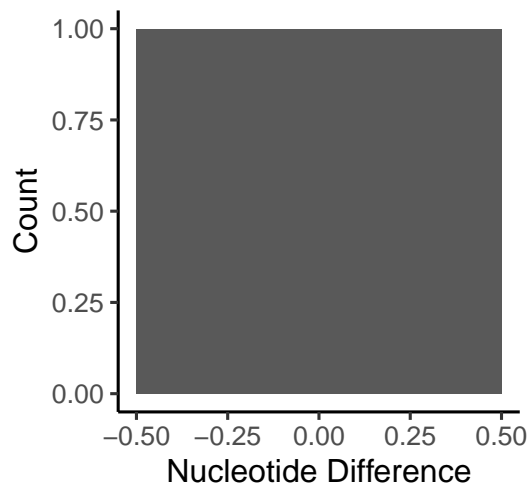
IGHV6–1*01_02

322 sequences assigned
302 (93.8%) exact matches, in which:
300 unique CDR3
6 unique J



IGHV5–51*07

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



IGHV7–4–1*01

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

