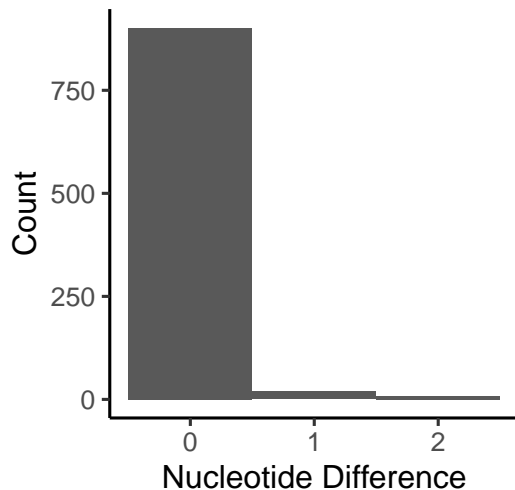


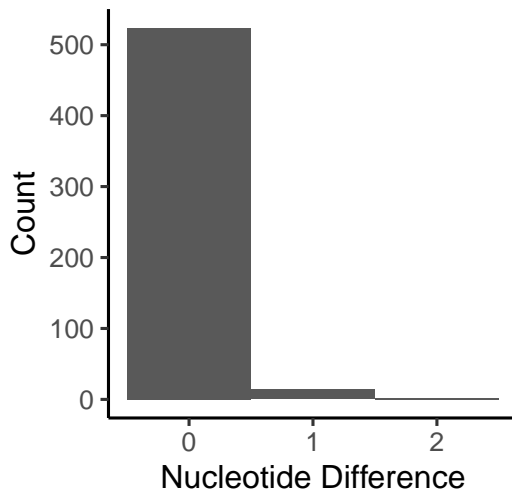
IGHV1-2*02

929 sequences assigned
902 (97.1%) exact matches, in which:
902 unique CDR3
6 unique J



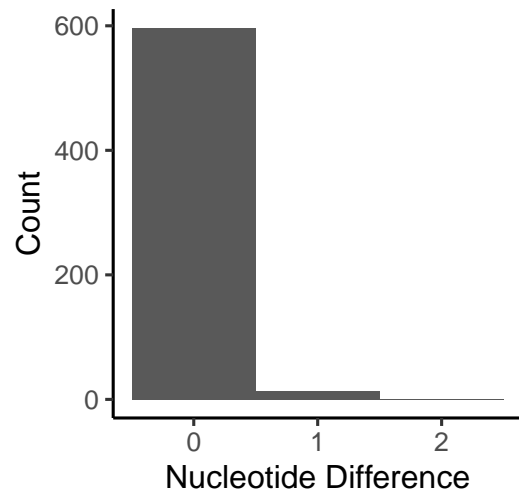
IGHV1-8*01

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



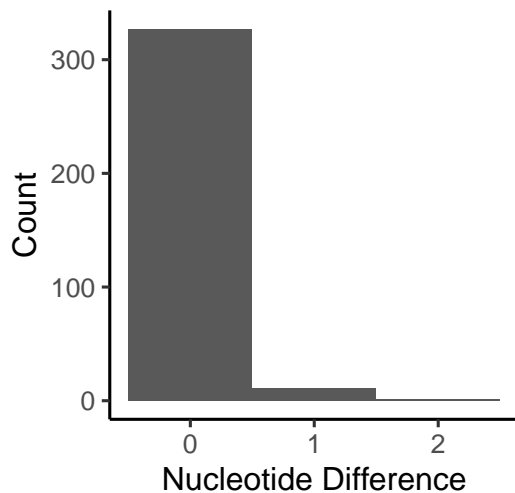
IGHV1-24*01

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



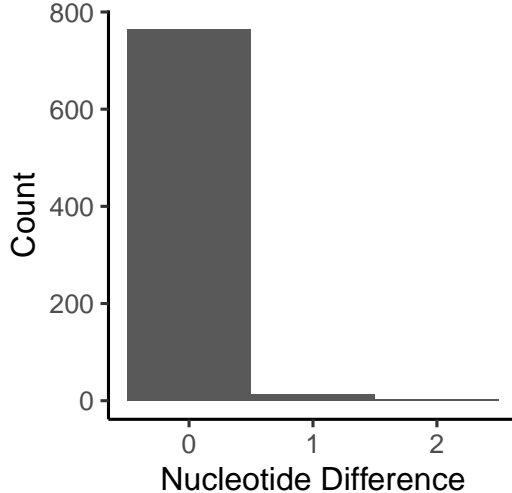
IGHV1-2*04

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



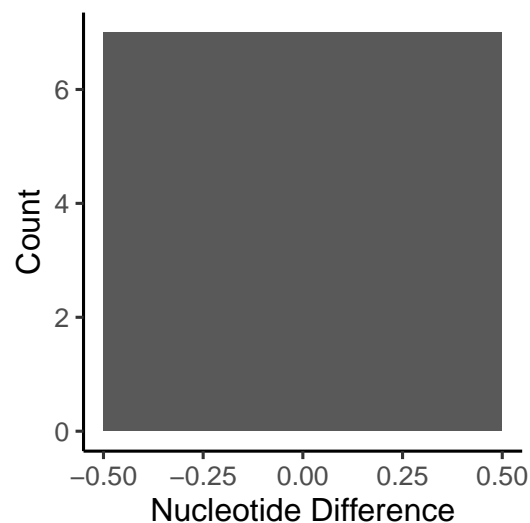
IGHV1-18*01

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



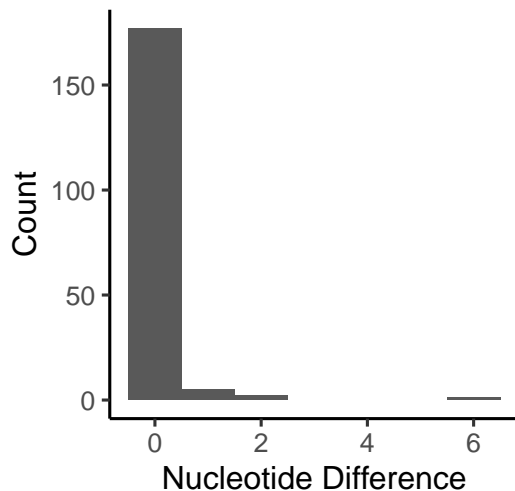
IGHV1-45*02

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



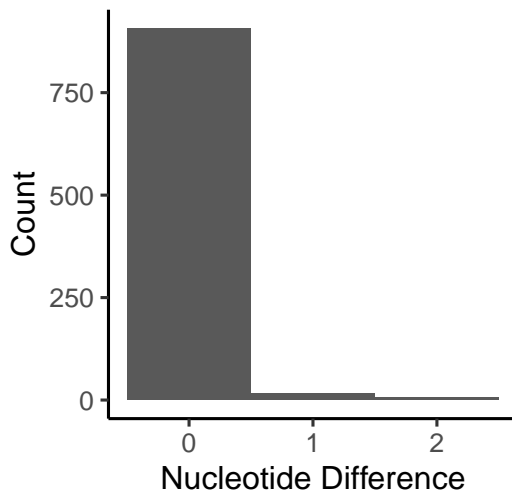
IGHV1-3*01_05

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



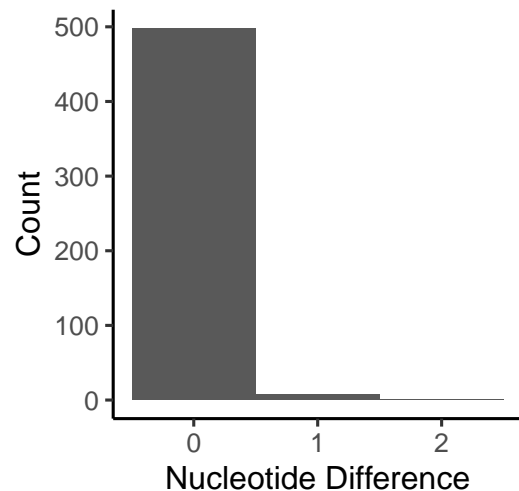
IGHV1-18*04

929 sequences assigned
907 (97.6%) exact matches, in which:
907 unique CDR3
6 unique J



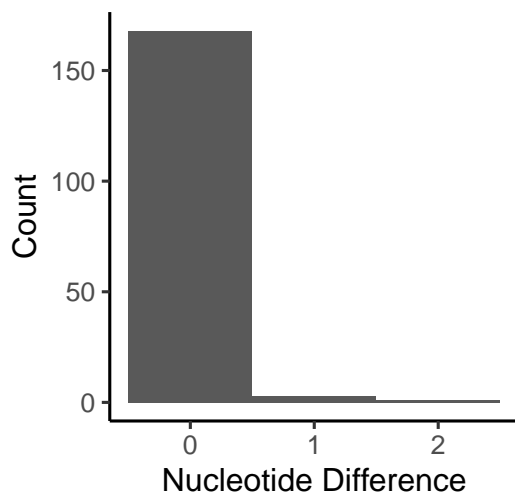
IGHV1-46*01

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



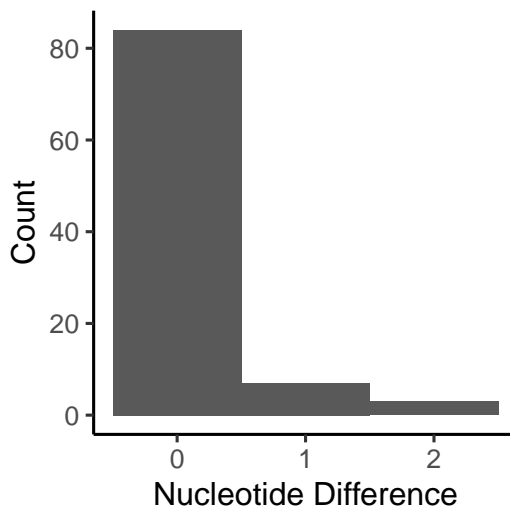
IGHV1–58*01_03

172 sequences assigned
168 (97.7%) exact matches, in which:
168 unique CDR3
5 unique J



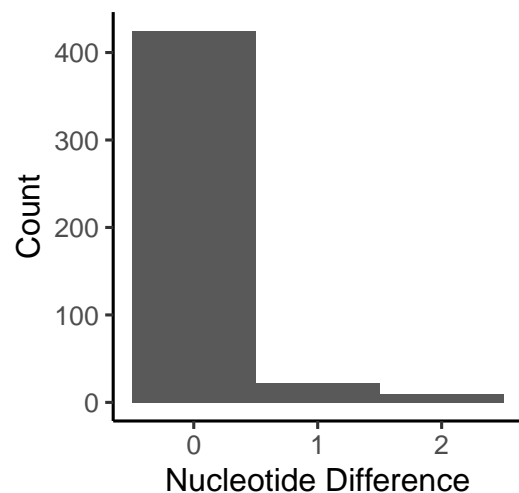
IGHV2–5*02

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



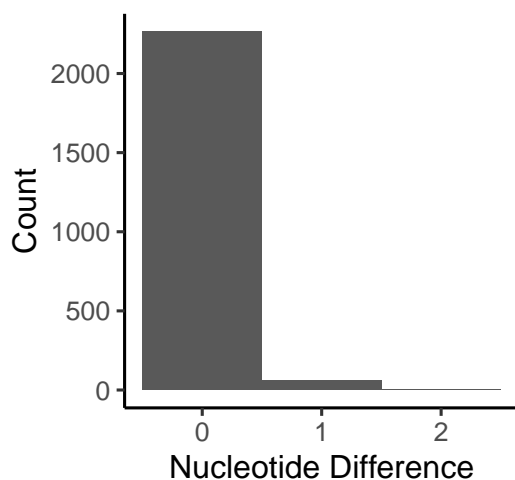
IGHV3–7*01

457 sequences assigned
425 (93%) exact matches, in which:
421 unique CDR3
6 unique J



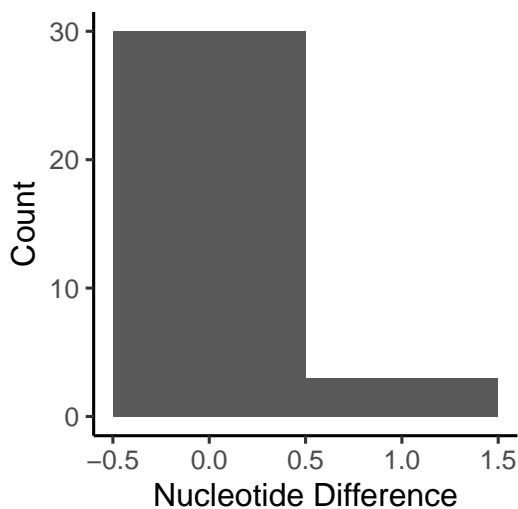
IGHV1–69*01_12_13

2324 sequences assigned
2264 (97.4%) exact matches, in which:
2264 unique CDR3
6 unique J



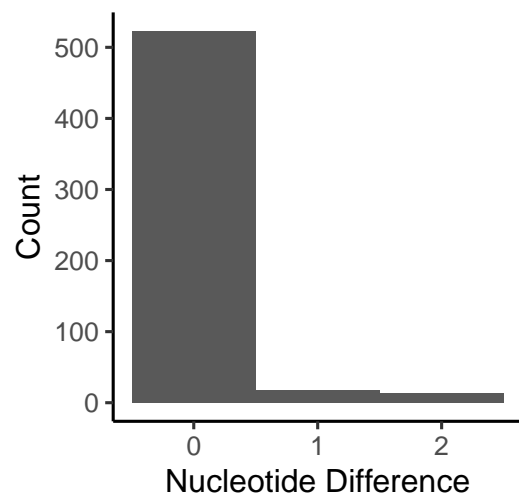
IGHV2–26*01

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



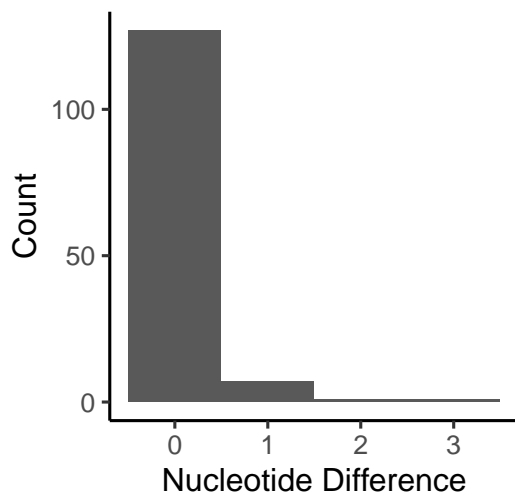
IGHV3–7*03

553 sequences assigned
523 (94.6%) exact matches, in which:
520 unique CDR3
6 unique J



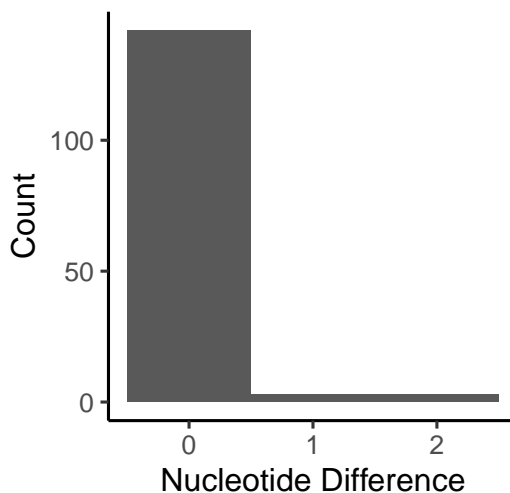
IGHV2–5*01

136 sequences assigned
127 (93.4%) exact matches, in which:
127 unique CDR3
6 unique J



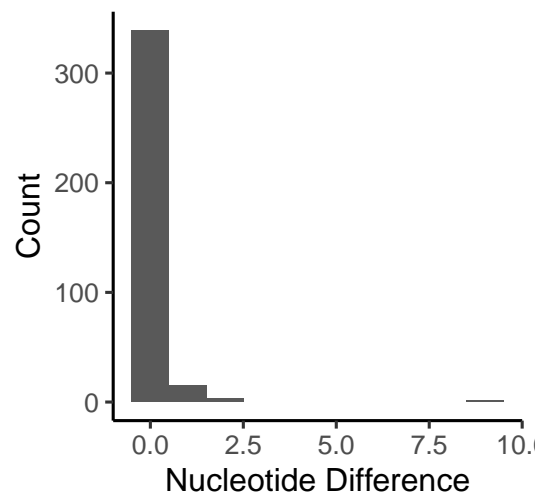
IGHV2–70*01

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



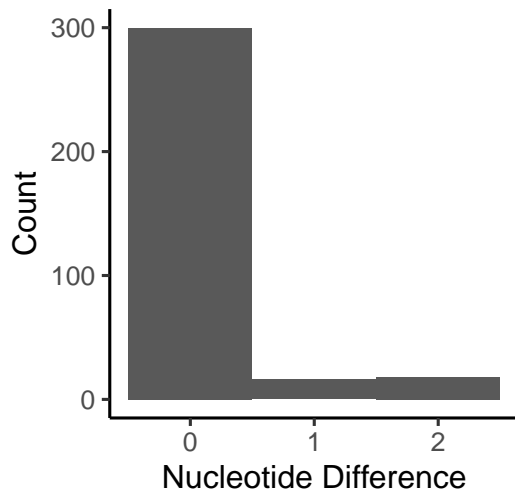
IGHV3–9*01

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



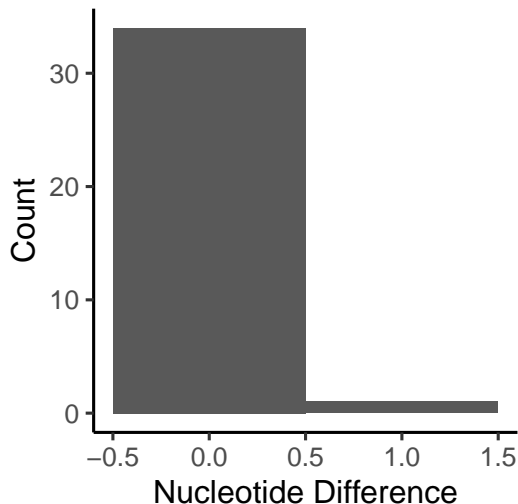
IGHV3-11*01

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



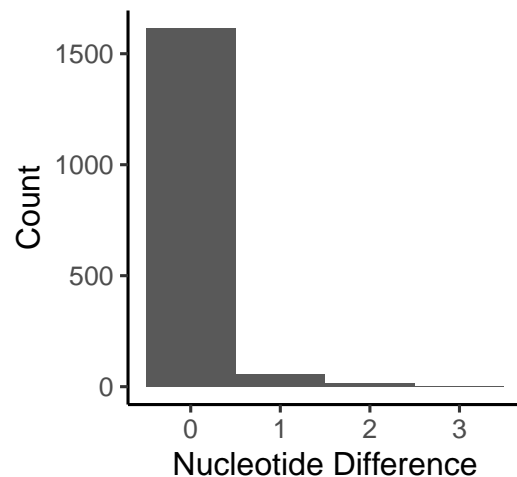
IGHV3-13*05

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



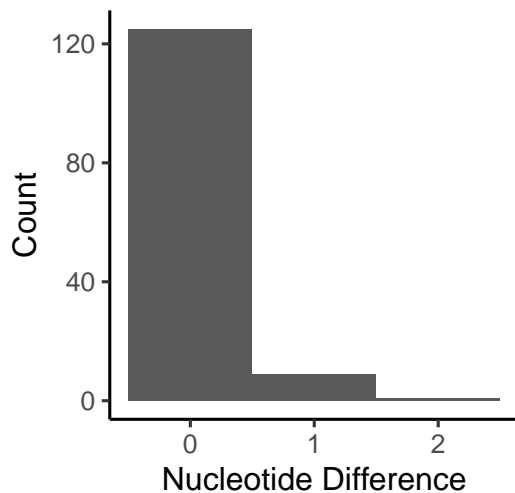
IGHV3-21*01_02

1689 sequences assigned
1614 (95.6%) exact matches, in which:
1599 unique CDR3
6 unique J



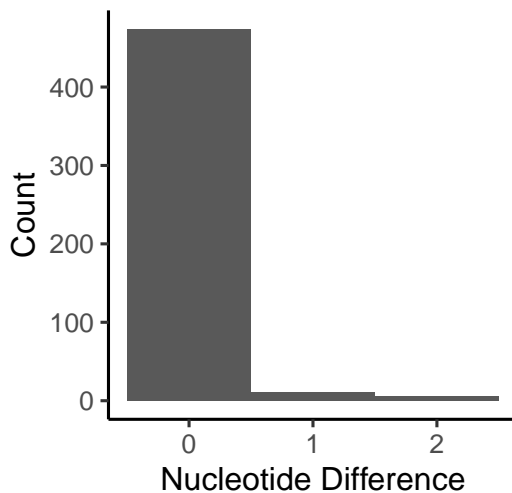
IGHV3-11*06

135 sequences assigned
125 (92.6%) exact matches, in which:
124 unique CDR3
5 unique J



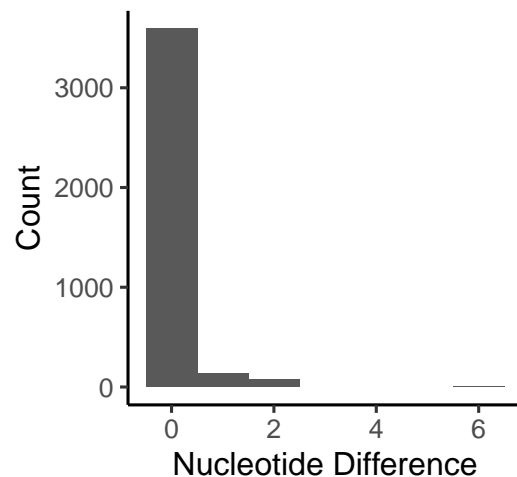
IGHV3-15*01_02

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



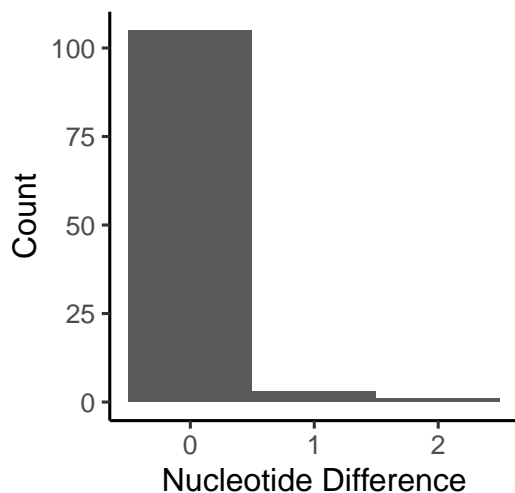
IGHV3-23*01_04

3806 sequences assigned
3592 (94.4%) exact matches, in which:
3567 unique CDR3
6 unique J



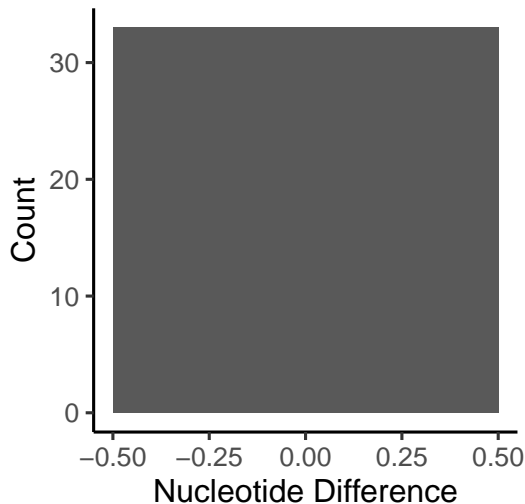
IGHV3-13*01

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



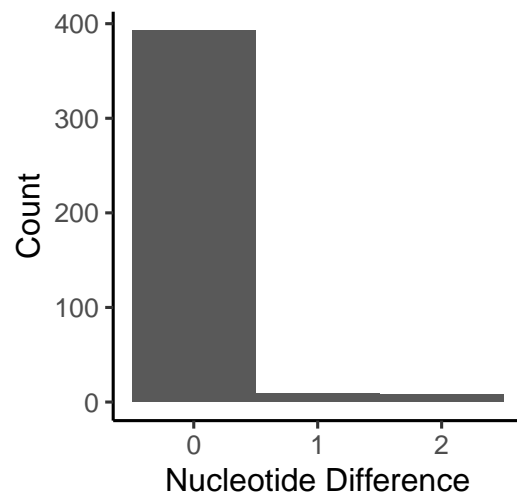
IGHV3-20*01_02

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



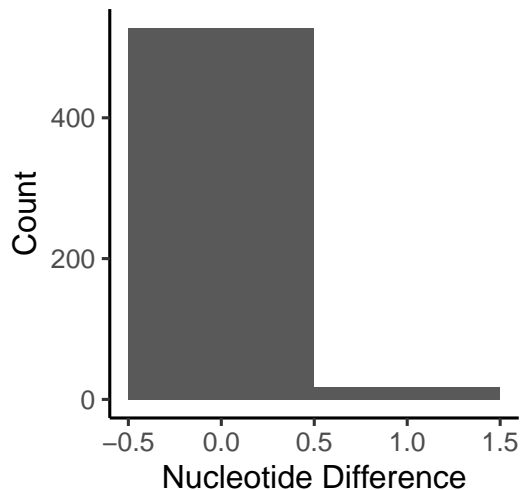
IGHV3-33*01

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



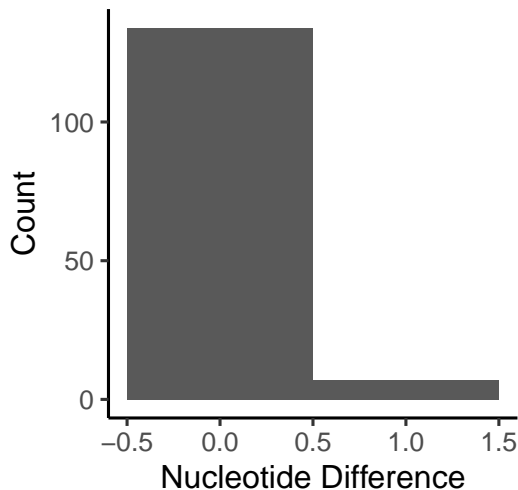
IGHV3–33*08

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



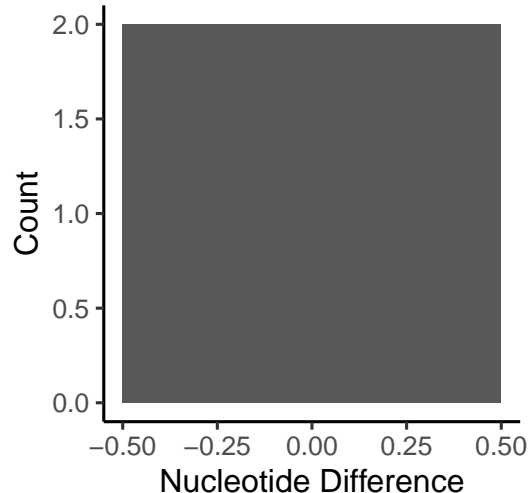
IGHV3–49*03_05

141 sequences assigned
134 (95%) exact matches, in which:
134 unique CDR3
6 unique J



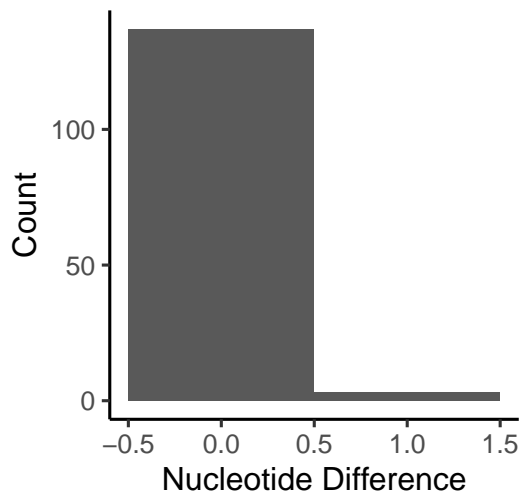
IGHV3–66*03

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



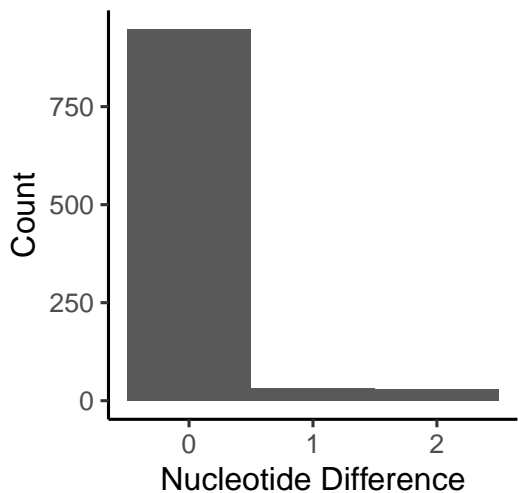
IGHV3–43*01

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



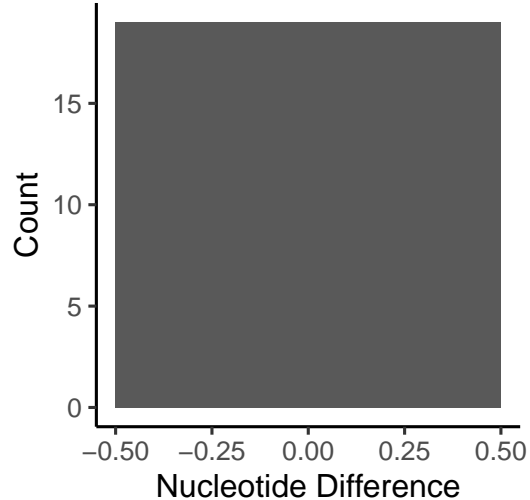
IGHV3–53*01_02

1010 sequences assigned
948 (93.9%) exact matches, in which:
934 unique CDR3
6 unique J



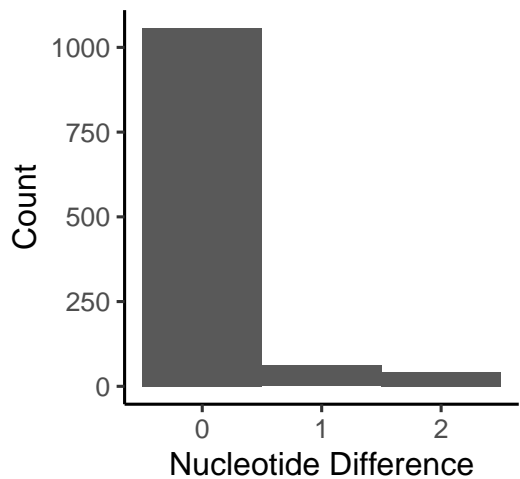
IGHV3–72*01

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



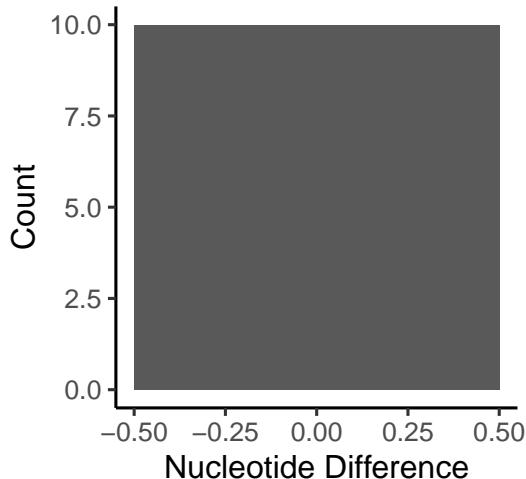
IGHV3–48*02

1161 sequences assigned
1057 (91%) exact matches, in which:
1049 unique CDR3
6 unique J



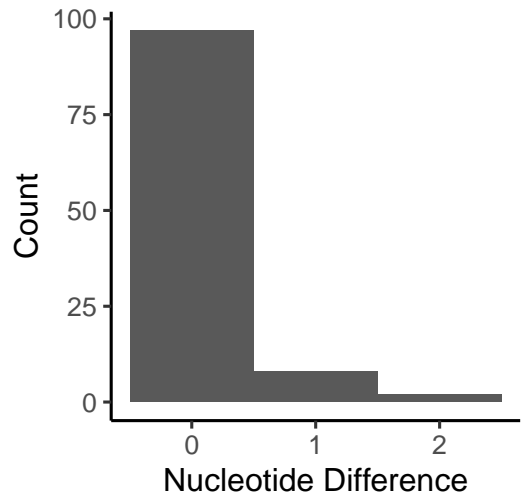
IGHV3–64*02_07

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



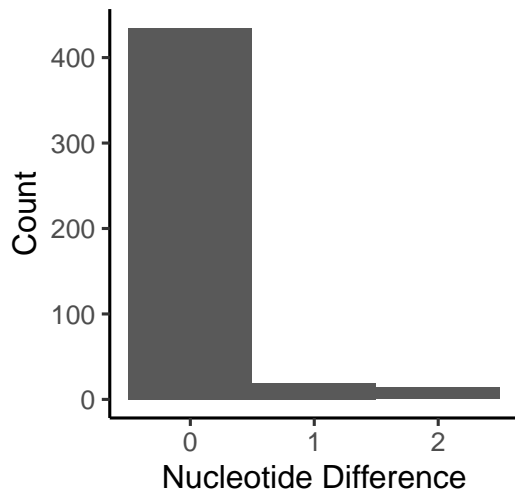
IGHV3–73*01_02

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



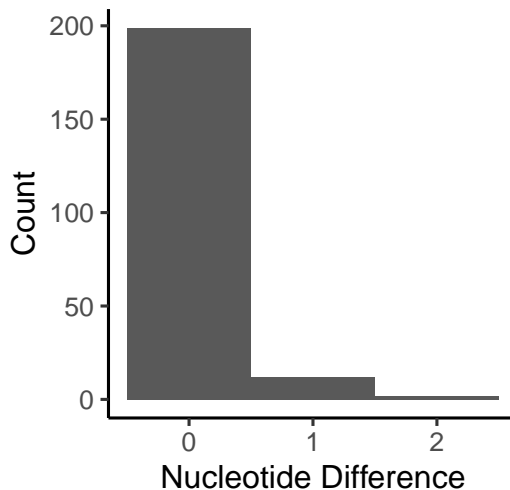
IGHV3-74*01_02

468 sequences assigned
435 (92.9%) exact matches, in which:
429 unique CDR3
6 unique J



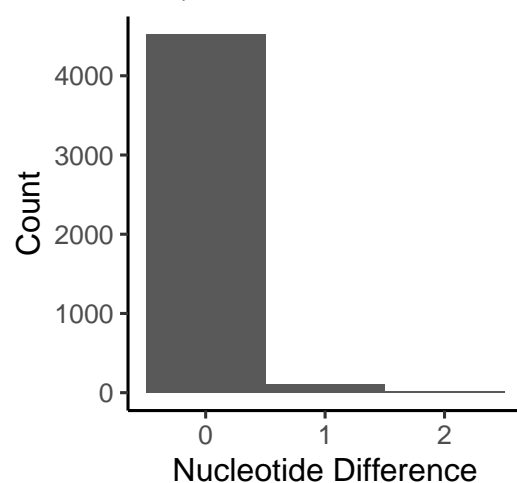
IGHV4-4*02_03

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



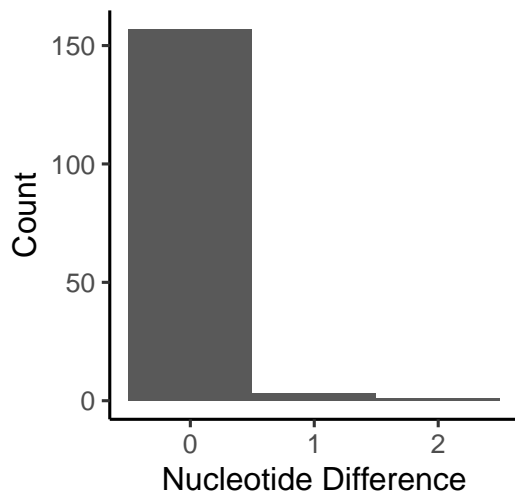
IGHV4-34*01_02

4647 sequences assigned
4522 (97.3%) exact matches, in which:
4497 unique CDR3
6 unique J



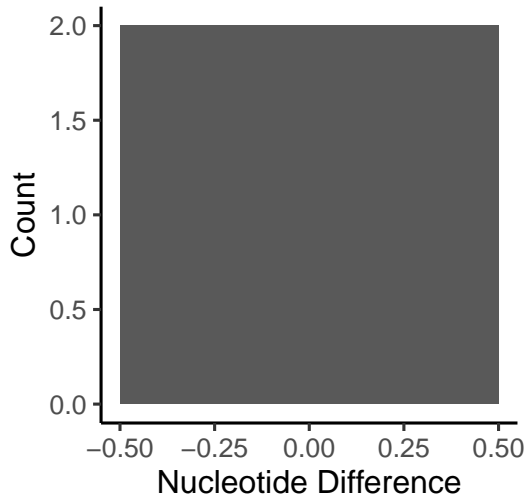
IGHV3-64D*06

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



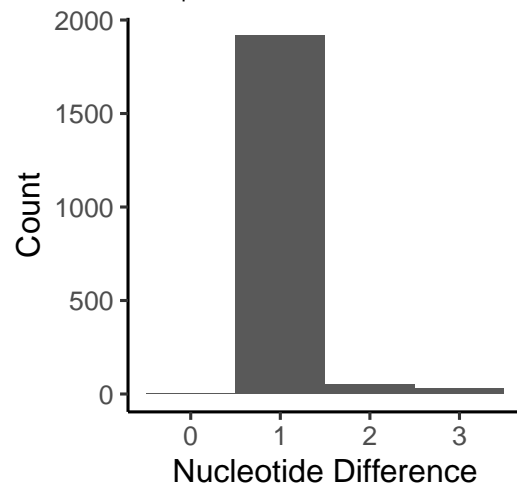
IGHV4-28*01_07

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



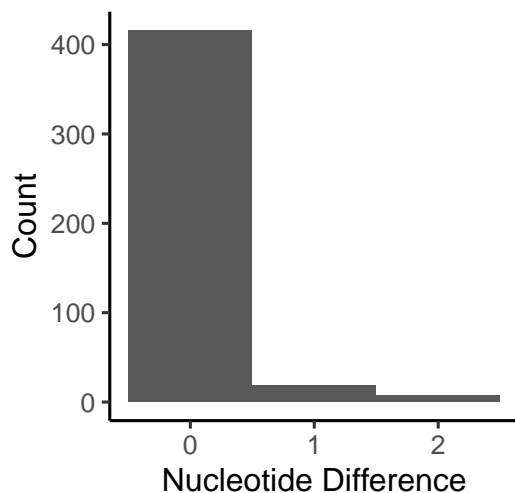
IGHV4-39*02

2002 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
3 unique J



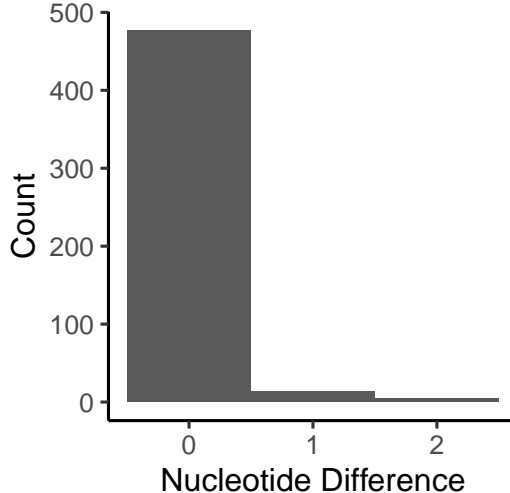
IGHV4-4*07

442 sequences assigned
416 (94.1%) exact matches, in which:
415 unique CDR3
6 unique J



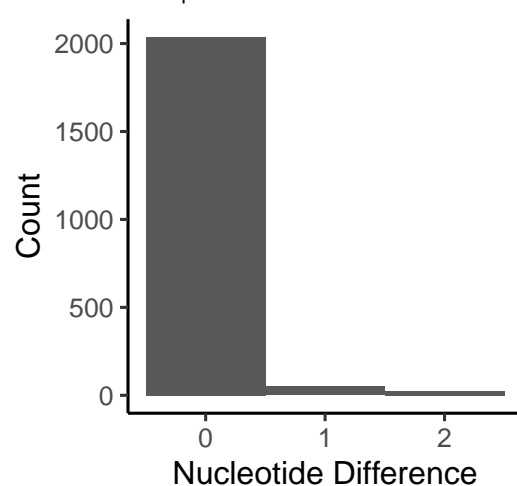
IGHV4-31*02

494 sequences assigned
477 (96.6%) exact matches, in which:
475 unique CDR3
6 unique J



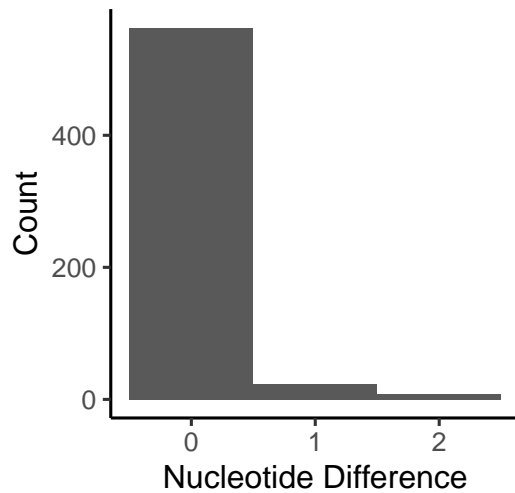
IGHV4-59*01_07

2110 sequences assigned
2037 (96.5%) exact matches, in which:
2025 unique CDR3
6 unique J



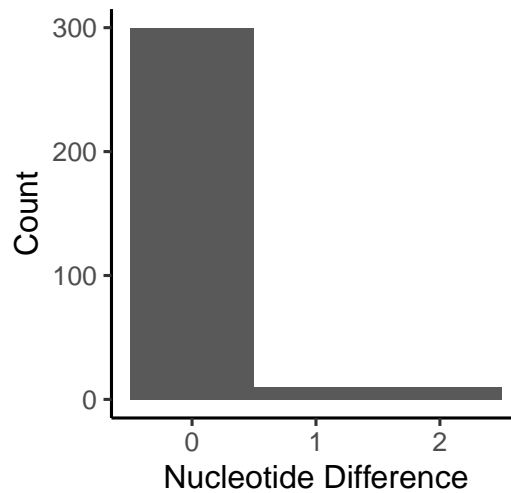
IGHV4–61*01

594 sequences assigned
563 (94.8%) exact matches, in which:
561 unique CDR3
6 unique J



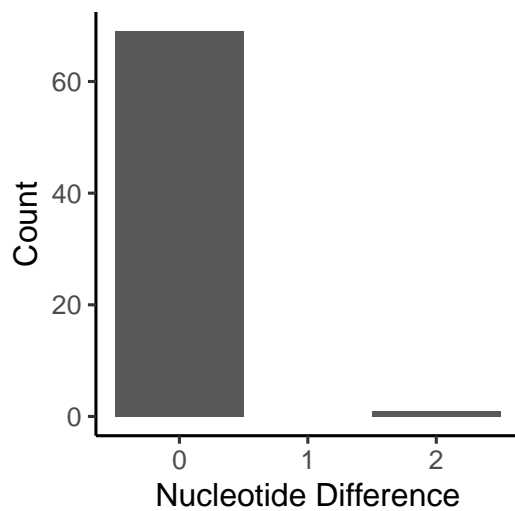
IGHV6–1*01_02

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



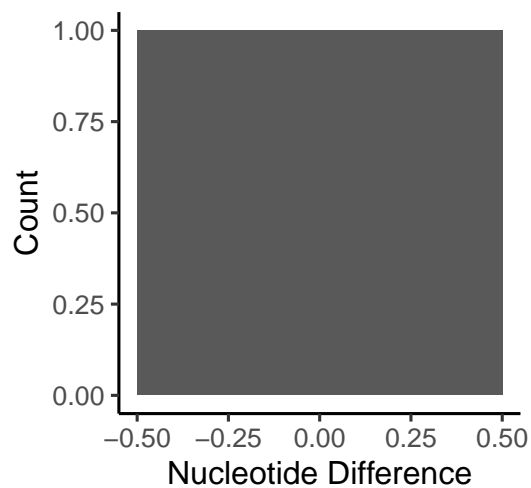
IGHV5–10–1*01_03

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



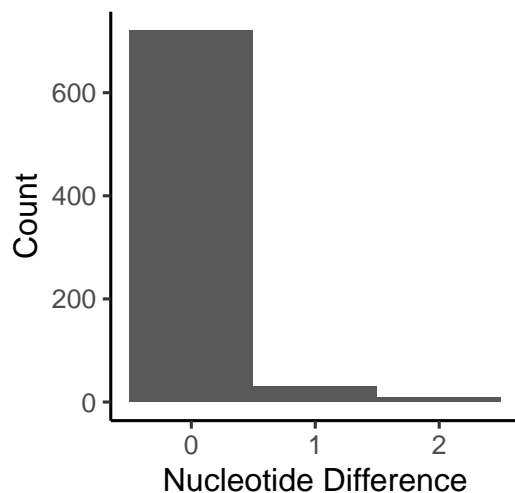
IGHV7–4–1*01

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



IGHV5–51*07_A128G

761 sequences assigned
721 (94.7%) exact matches, in which:
721 unique CDR3
6 unique J





Warning – no inferred sequences found.