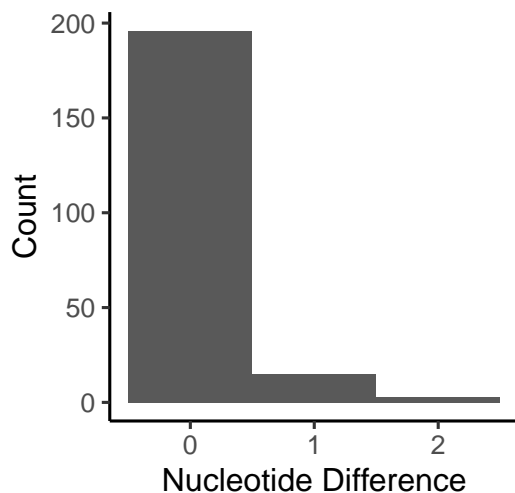


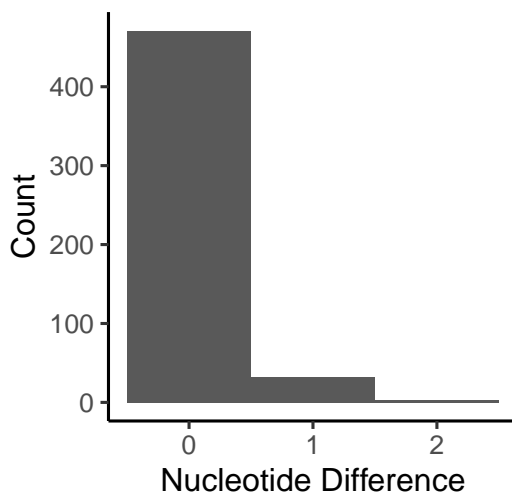
IGHV1-2*04

214 sequences assigned
196 (91.6%) exact matches, in which:
195 unique CDR3
6 unique J



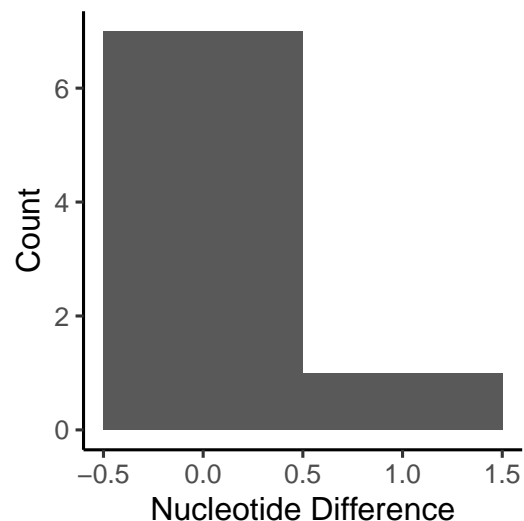
IGHV1-8*01

506 sequences assigned
471 (93.1%) exact matches, in which:
470 unique CDR3
6 unique J



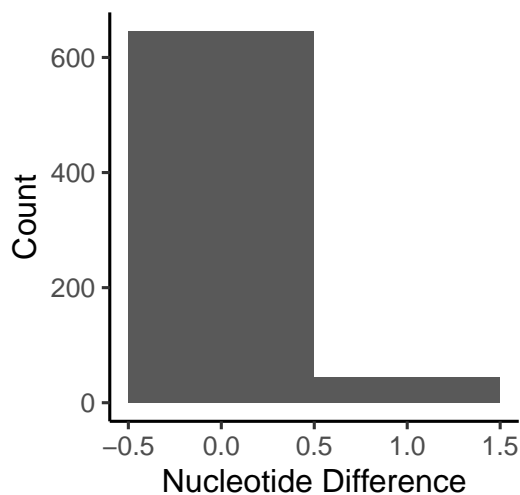
IGHV1-45*02

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



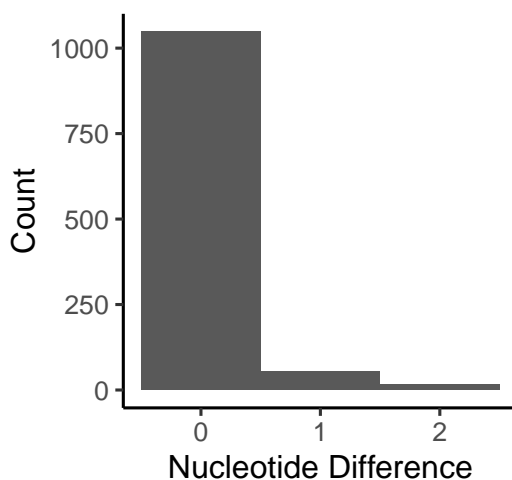
IGHV1-2*06

691 sequences assigned
646 (93.5%) exact matches, in which:
646 unique CDR3
6 unique J



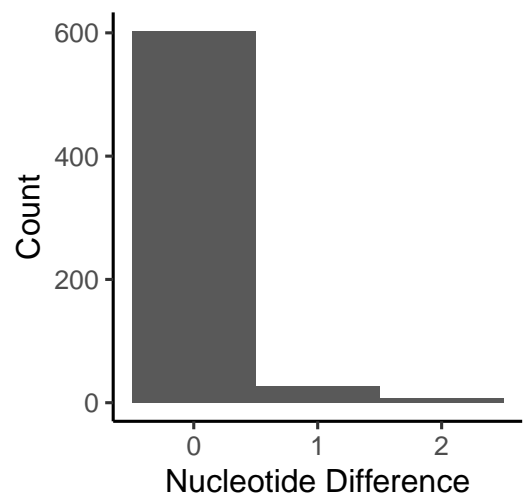
IGHV1-18*01

1120 sequences assigned
1048 (93.6%) exact matches, in which:
1045 unique CDR3
6 unique J



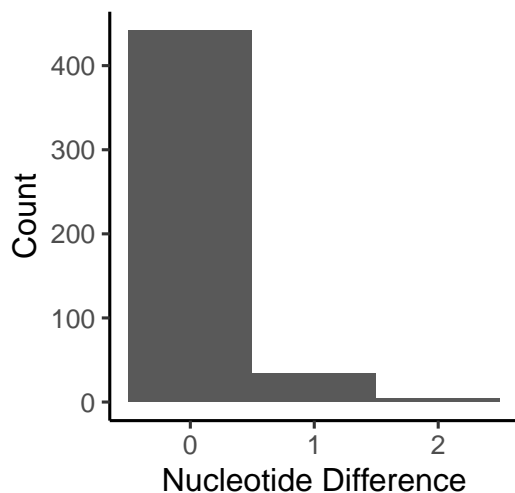
IGHV1-46*01

638 sequences assigned
603 (94.5%) exact matches, in which:
603 unique CDR3
6 unique J



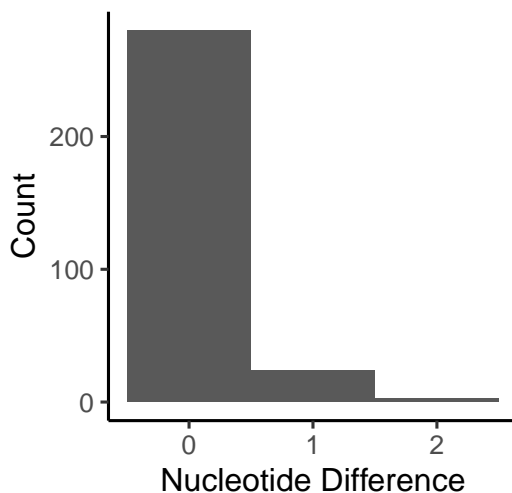
IGHV1-3*01_05

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



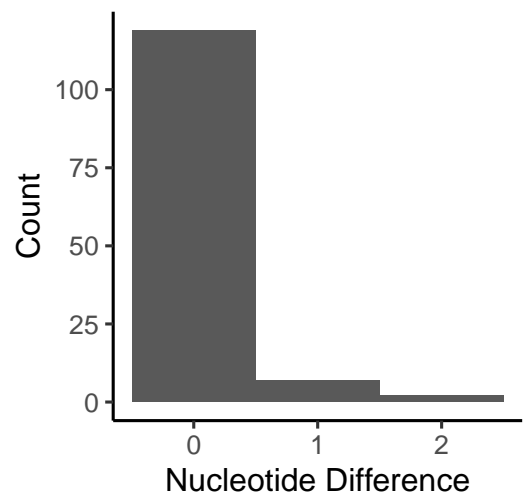
IGHV1-24*01

307 sequences assigned
280 (91.2%) exact matches, in which:
280 unique CDR3
6 unique J



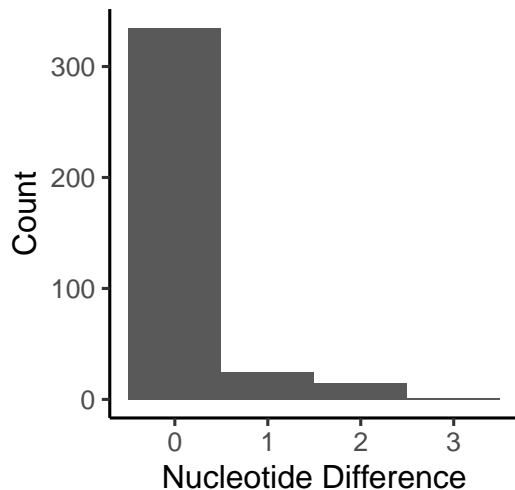
IGHV1-58*01_03

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



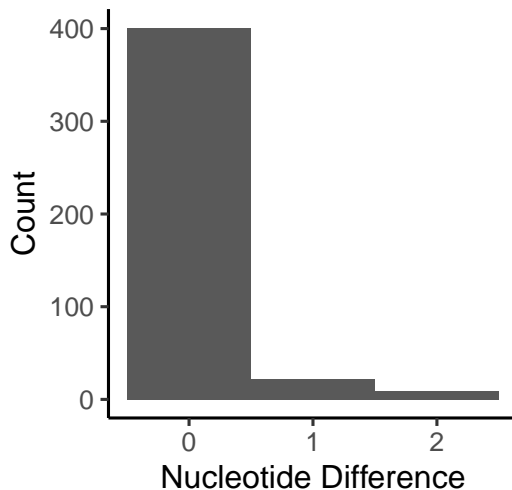
IGHV2-5*02

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



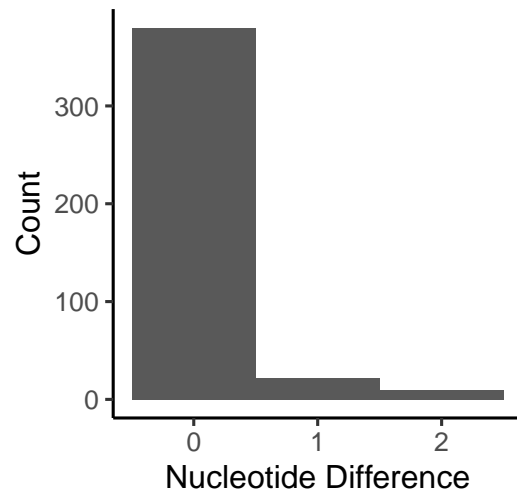
IGHV3-7*01

432 sequences assigned
401 (92.8%) exact matches, in which:
397 unique CDR3
6 unique J



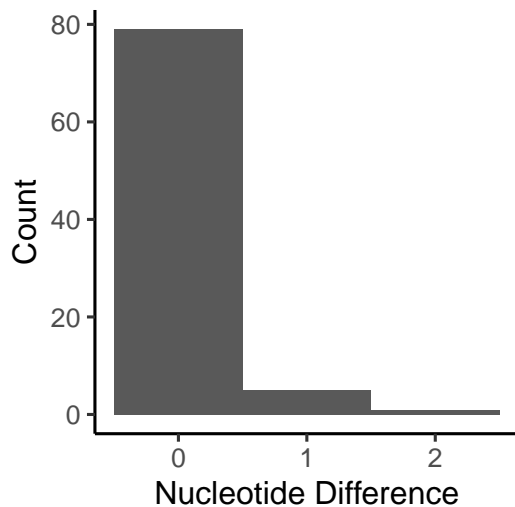
IGHV3-11*01

412 sequences assigned
380 (92.2%) exact matches, in which:
366 unique CDR3
6 unique J



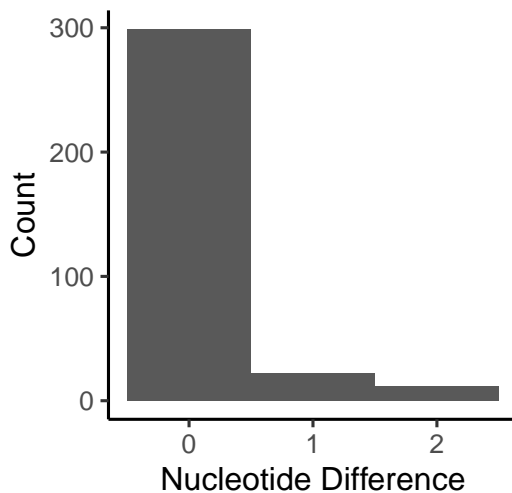
IGHV2-26*01

85 sequences assigned
79 (92.9%) exact matches, in which:
79 unique CDR3
5 unique J



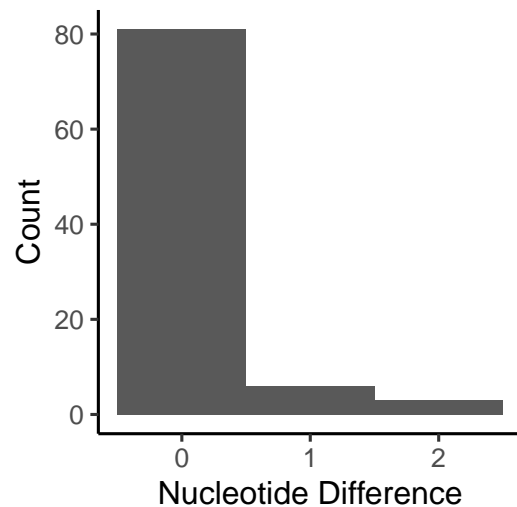
IGHV3-7*03

333 sequences assigned
299 (89.8%) exact matches, in which:
291 unique CDR3
6 unique J



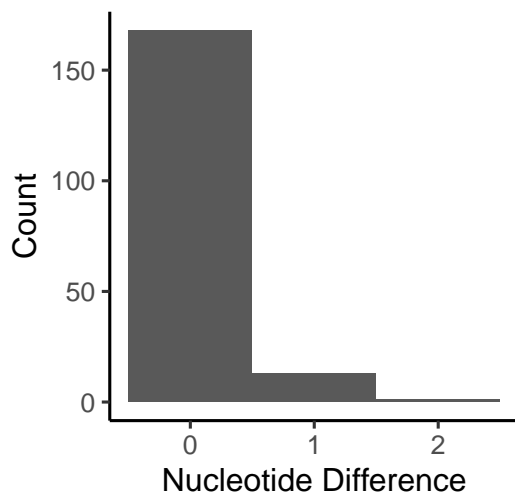
IGHV3-11*06

90 sequences assigned
81 (90%) exact matches, in which:
78 unique CDR3
5 unique J



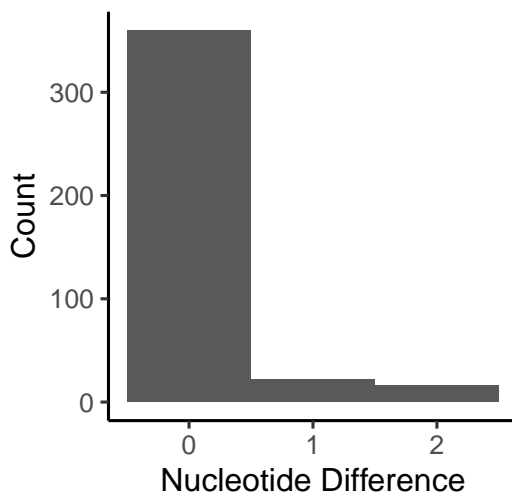
IGHV2-70*01

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



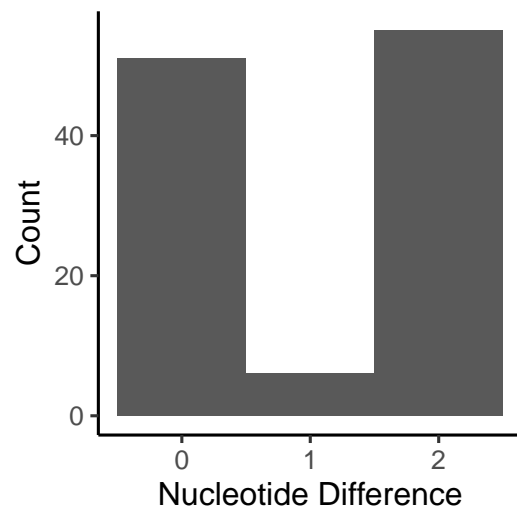
IGHV3-9*01

398 sequences assigned
360 (90.5%) exact matches, in which:
355 unique CDR3
6 unique J



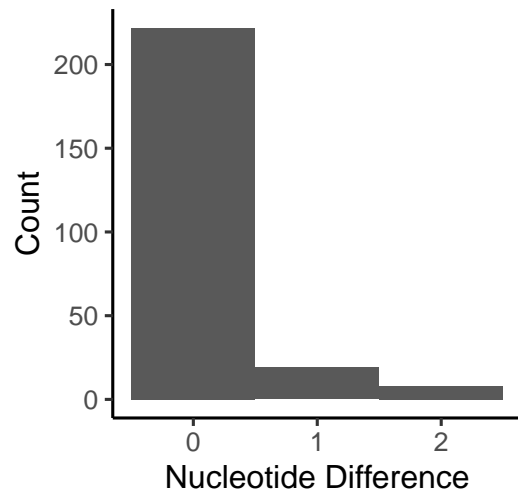
IGHV3-13*01

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



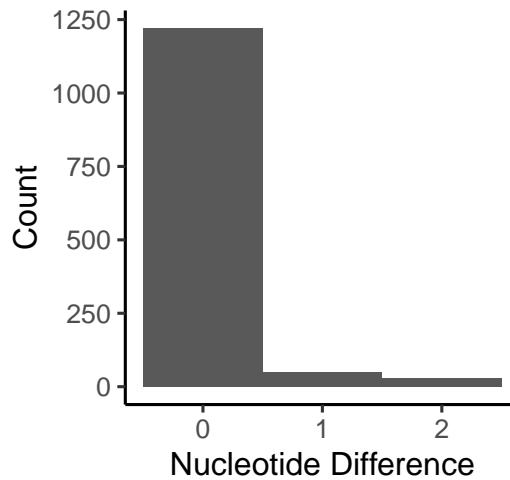
IGHV3-15*07

249 sequences assigned
222 (89.2%) exact matches, in which:
221 unique CDR3
4 unique J



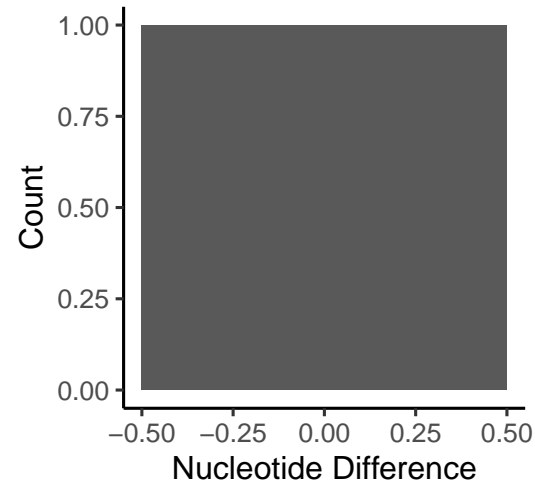
IGHV3-21*01_02

1297 sequences assigned
1220 (94.1%) exact matches, in which:
1201 unique CDR3
6 unique J



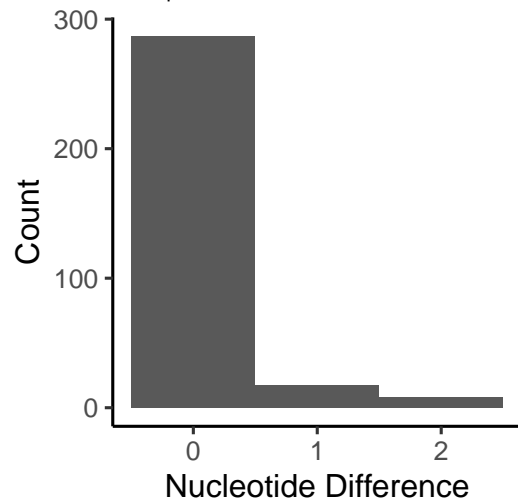
IGHV3-47*02

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



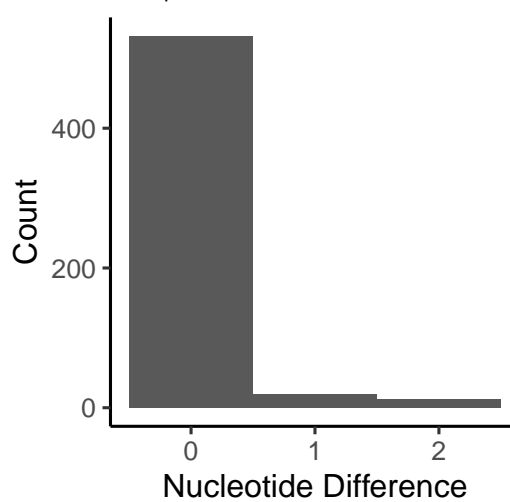
IGHV3-15*01_02

312 sequences assigned
287 (92%) exact matches, in which:
286 unique CDR3
6 unique J



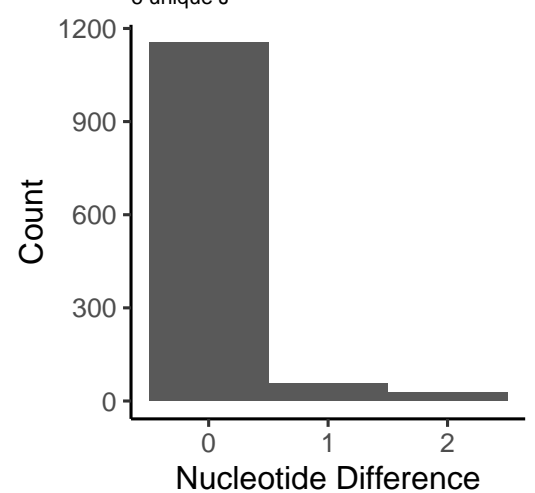
IGHV3-33*01

564 sequences assigned
532 (94.3%) exact matches, in which:
526 unique CDR3
6 unique J



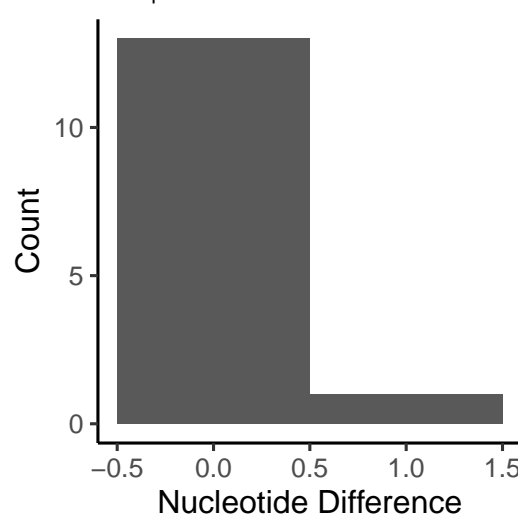
IGHV3-48*02

1235 sequences assigned
1154 (93.4%) exact matches, in which:
1137 unique CDR3
6 unique J



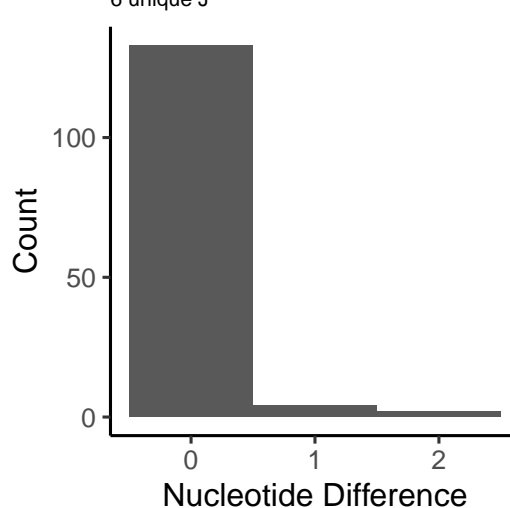
IGHV3-20*03_04

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



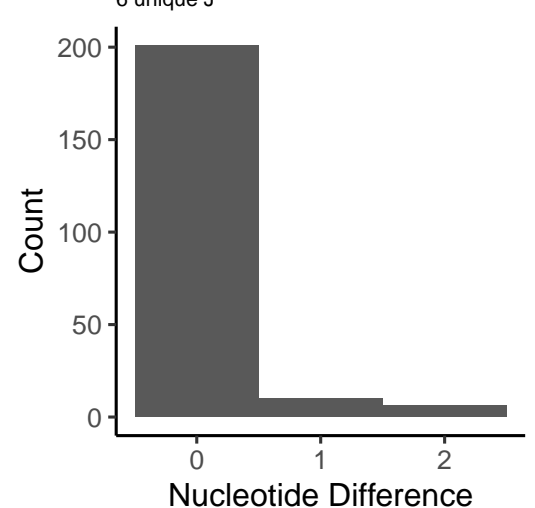
IGHV3-43*01

139 sequences assigned
133 (95.7%) exact matches, in which:
132 unique CDR3
6 unique J



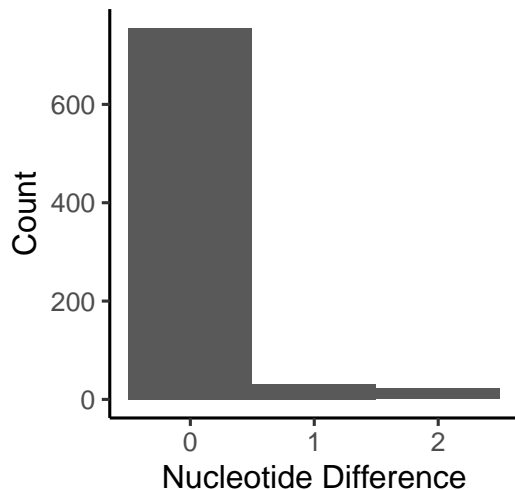
IGHV3-49*03_05

217 sequences assigned
201 (92.6%) exact matches, in which:
201 unique CDR3
6 unique J



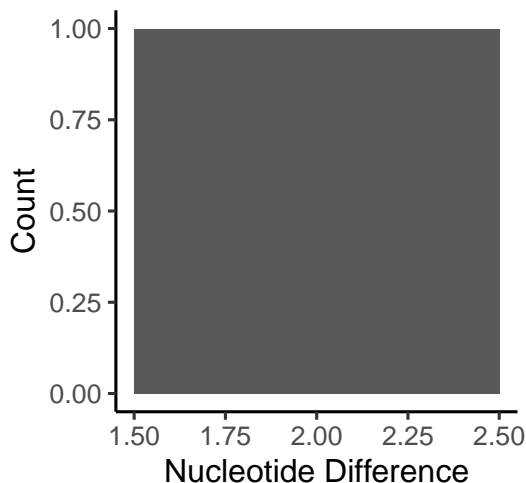
IGHV3–53*01_02

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



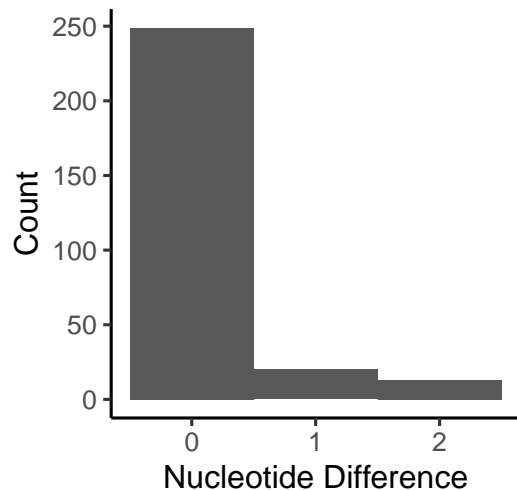
IGHV3–66*04

1 sequences assigned
No exact matches.



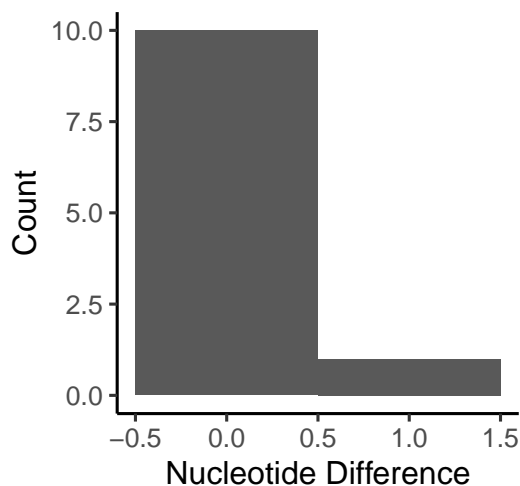
IGHV3–74*01_02

282 sequences assigned
249 (88.3%) exact matches, in which:
246 unique CDR3
6 unique J



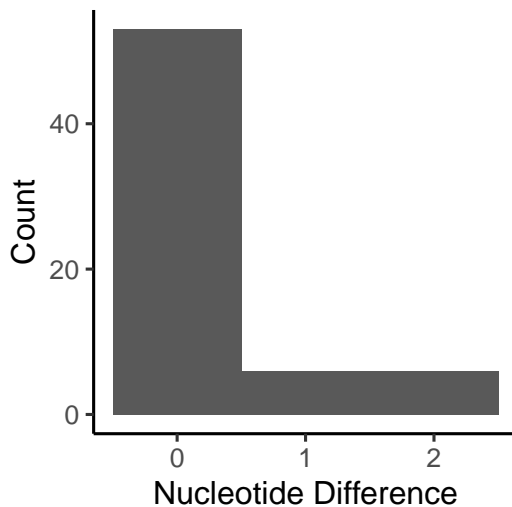
IGHV3–64*02_07

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



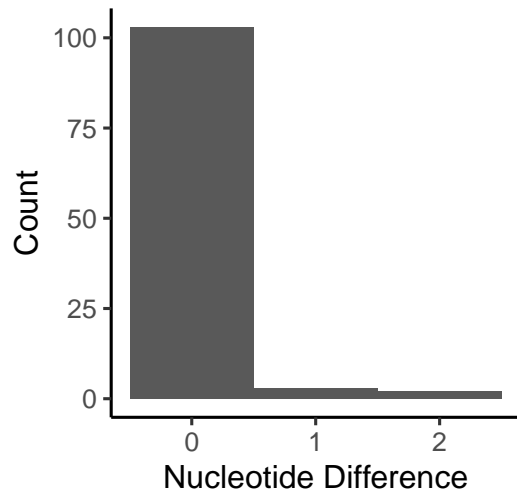
IGHV3–72*01

65 sequences assigned
53 (81.5%) exact matches, in which:
52 unique CDR3
5 unique J



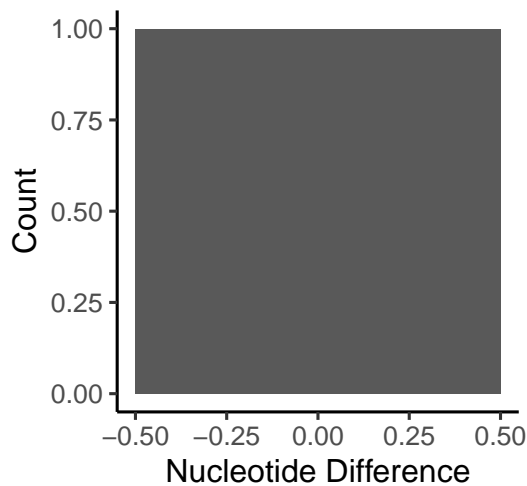
IGHV3–64D*06

108 sequences assigned
103 (95.4%) exact matches, in which:
101 unique CDR3
6 unique J



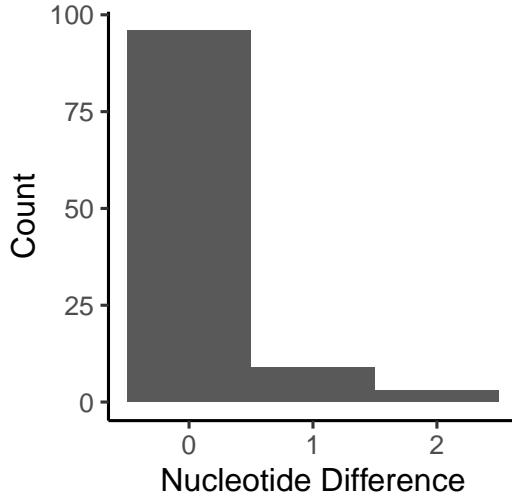
IGHV3–66*03

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



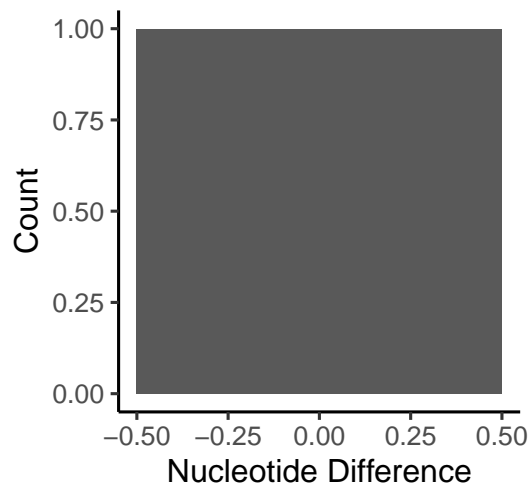
IGHV3–73*01_02

108 sequences assigned
96 (88.9%) exact matches, in which:
96 unique CDR3
6 unique J



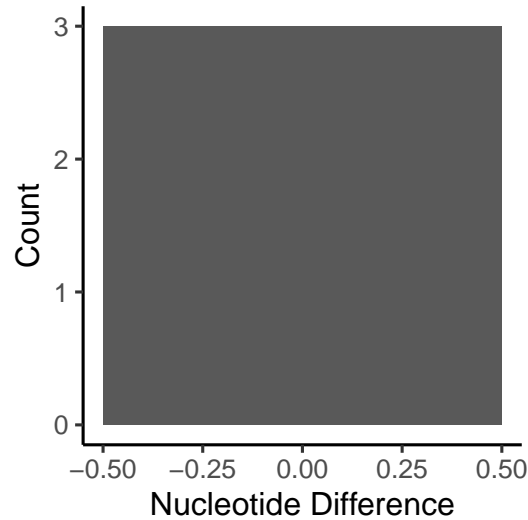
IGHV4–28*03

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



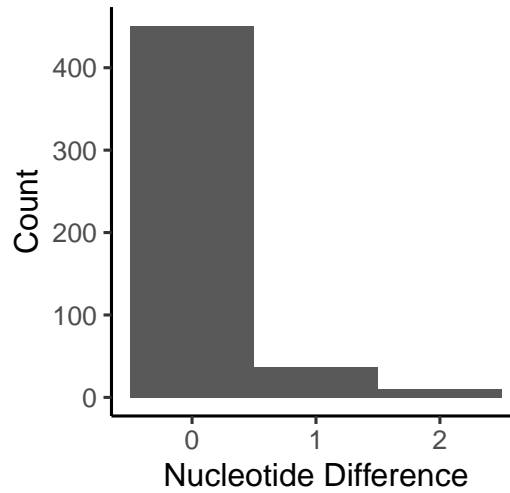
IGHV4-28*01_07

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



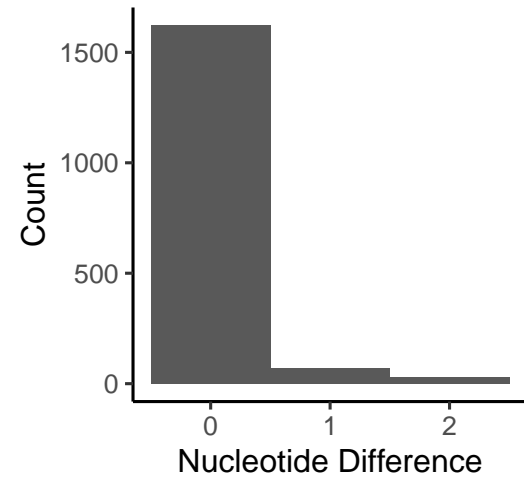
IGHV4-31*03_04

498 sequences assigned
451 (90.6%) exact matches, in which:
448 unique CDR3
6 unique J



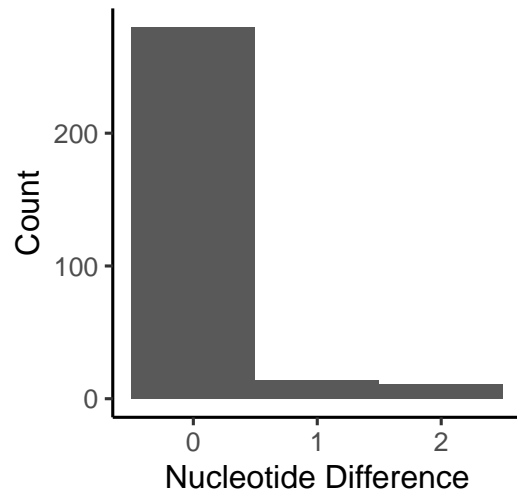
IGHV4-59*01_07

1723 sequences assigned
1622 (94.1%) exact matches, in which:
1605 unique CDR3
6 unique J



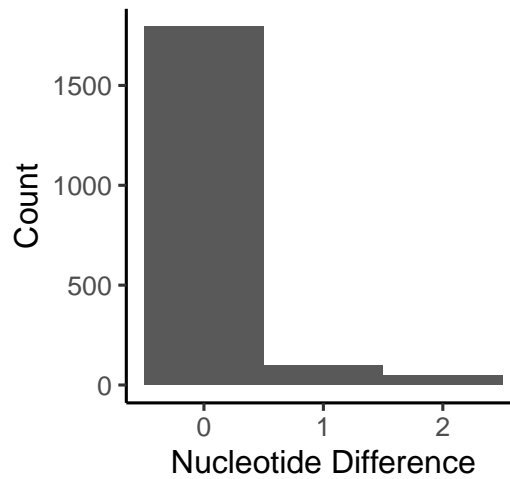
IGHV4-30-2*01

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



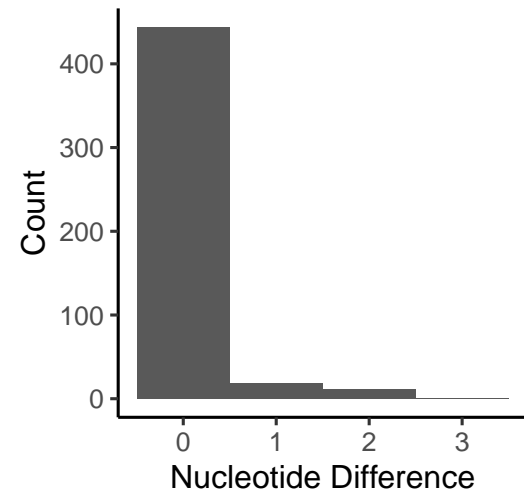
IGHV4-34*01_02

1940 sequences assigned
1794 (92.5%) exact matches, in which:
1756 unique CDR3
6 unique J



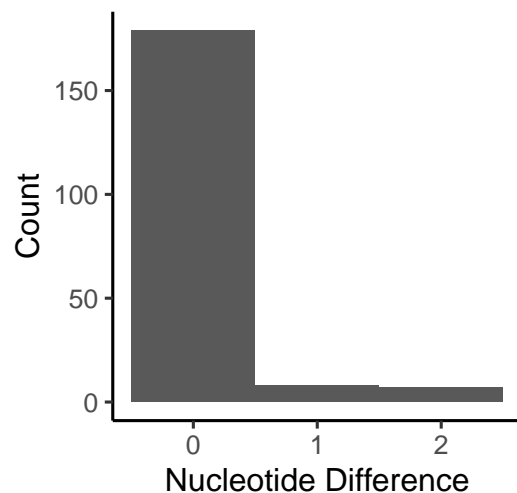
IGHV4-61*01

475 sequences assigned
444 (93.5%) exact matches, in which:
437 unique CDR3
6 unique J



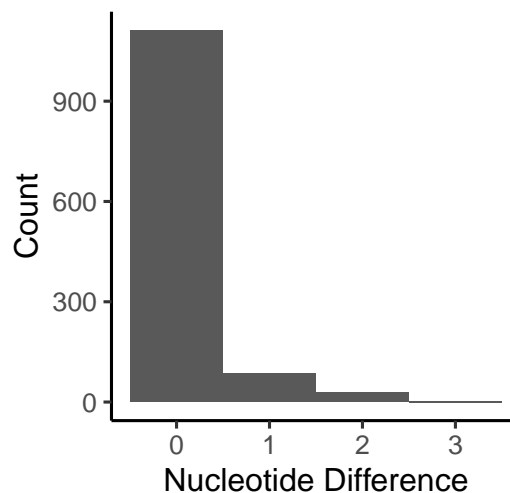
IGHV4-30-4*07

194 sequences assigned
179 (92.3%) exact matches, in which:
175 unique CDR3
5 unique J



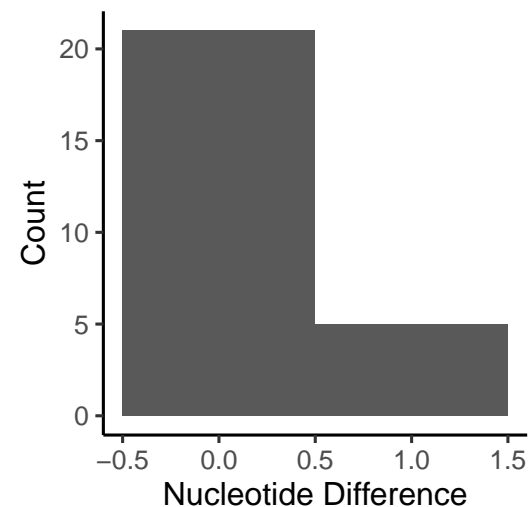
IGHV4-39*01_05

1229 sequences assigned
1112 (90.5%) exact matches, in which:
1102 unique CDR3
6 unique J



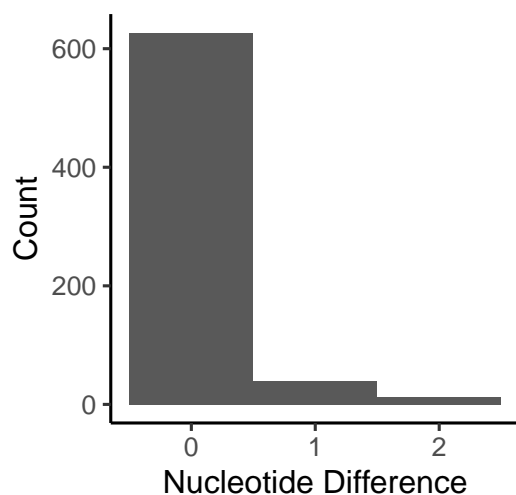
IGHV5-10-1*01_03

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



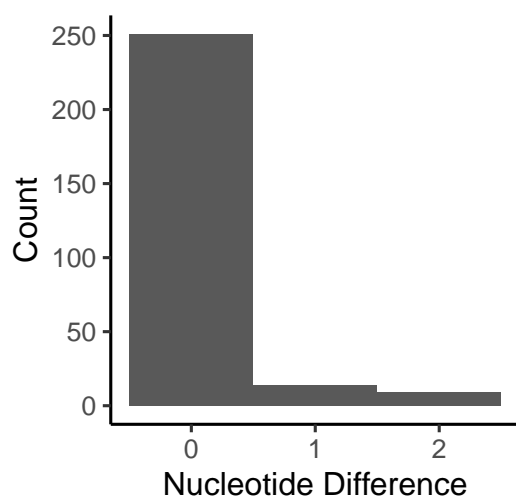
IGHV5–51*01_03

679 sequences assigned
627 (92.3%) exact matches, in which:
626 unique CDR3
6 unique J



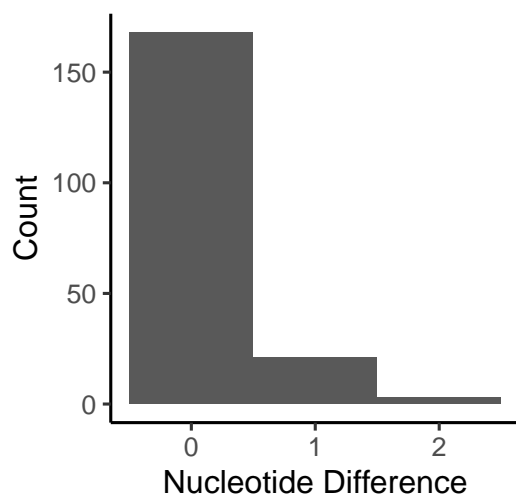
IGHV6–1*01_02

274 sequences assigned
251 (91.6%) exact matches, in which:
251 unique CDR3
6 unique J



IGHV7–4–1*02

192 sequences assigned
168 (87.5%) exact matches, in which:
168 unique CDR3
6 unique J





Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.