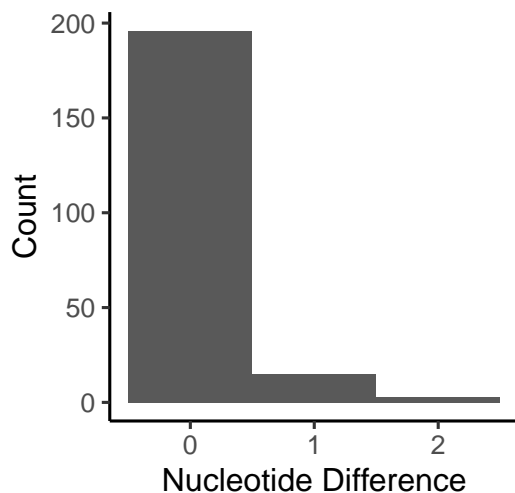


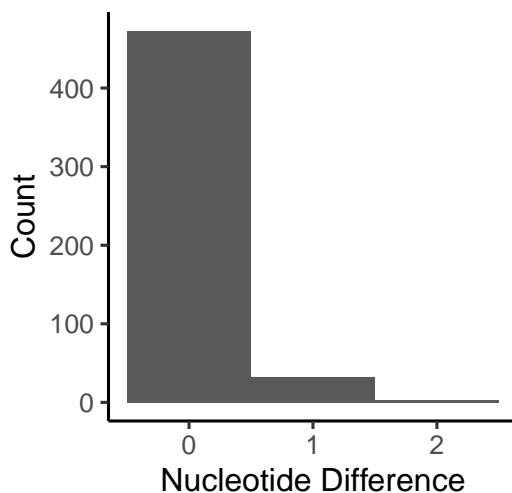
IGHV1-2*04

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



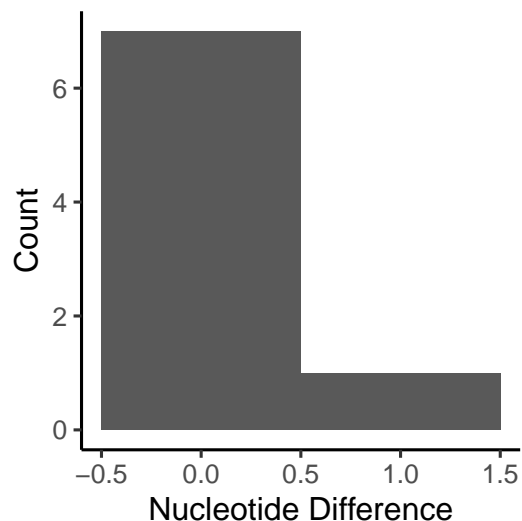
IGHV1-8*01

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



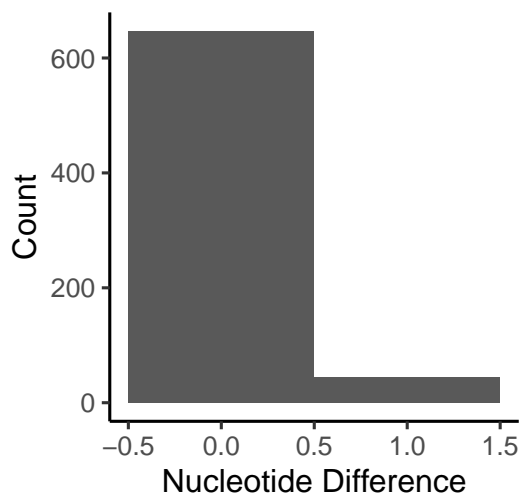
IGHV1-45*02

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



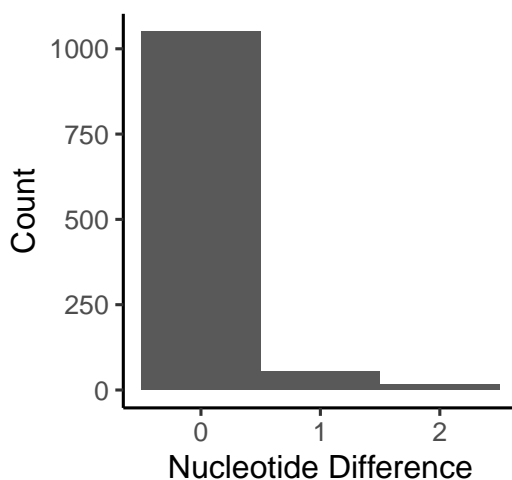
IGHV1-2*06

692 sequences assigned
647 (93.5%) exact matches, in which:
647 unique CDR3
6 unique J



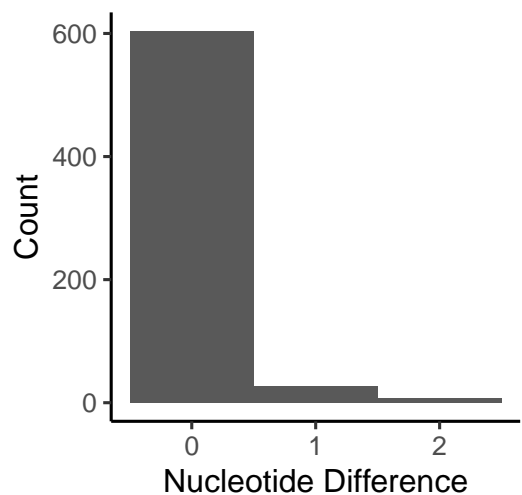
IGHV1-18*01

1122 sequences assigned
1050 (93.6%) exact matches, in which:
1047 unique CDR3
6 unique J



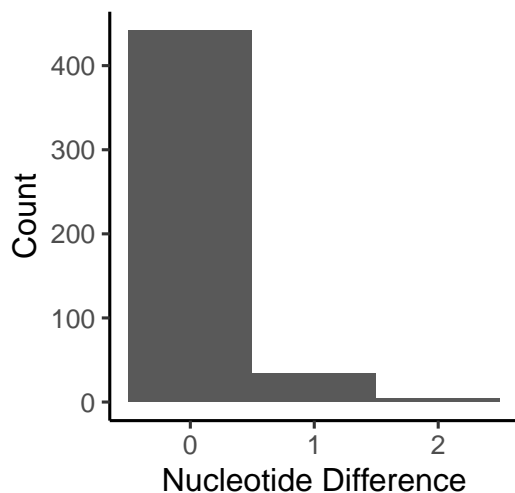
IGHV1-46*01

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



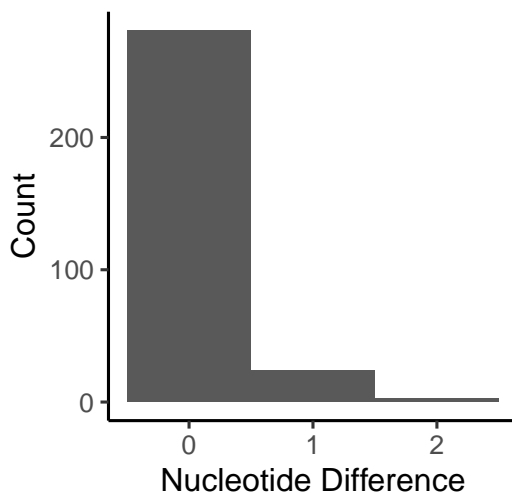
IGHV1-3*01_05

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



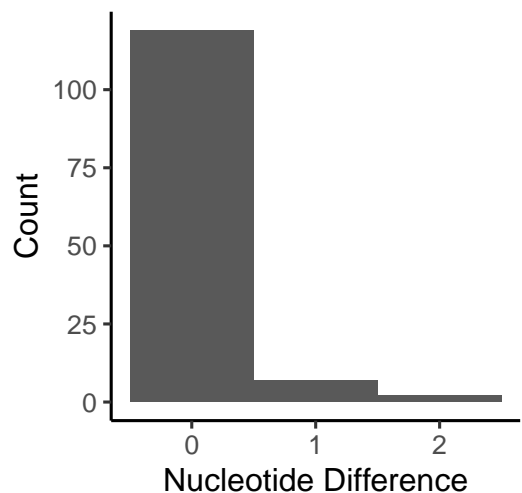
IGHV1-24*01

308 sequences assigned
281 (91.2%) exact matches, in which:
281 unique CDR3
6 unique J



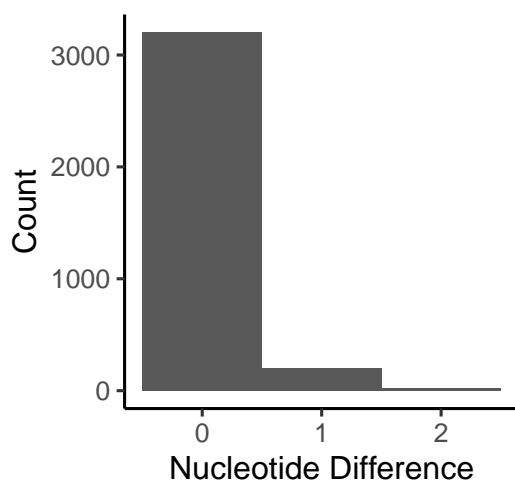
IGHV1-58*01_03

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



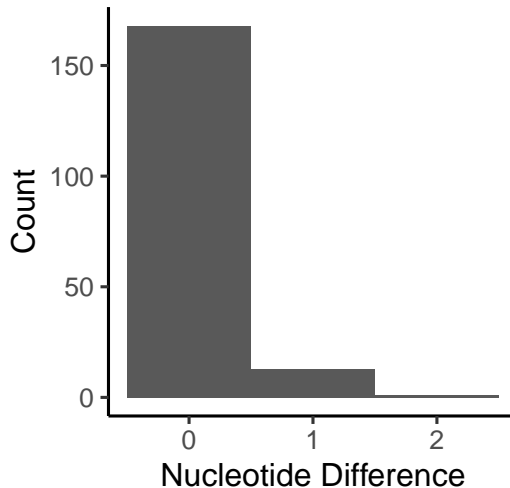
IGHV1-69*01_12_13

3429 sequences assigned
3202 (93.4%) exact matches, in which:
3197 unique CDR3
6 unique J



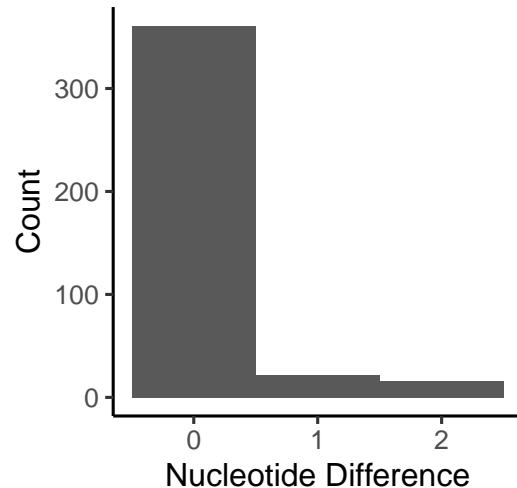
IGHV2-70*01

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



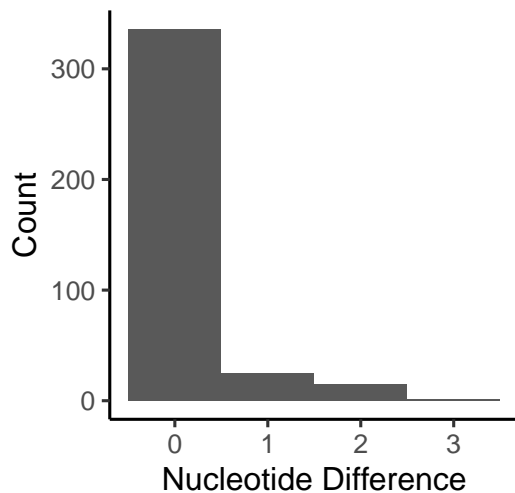
IGHV3-9*01

399 sequences assigned
361 (90.5%) exact matches, in which:
356 unique CDR3
6 unique J



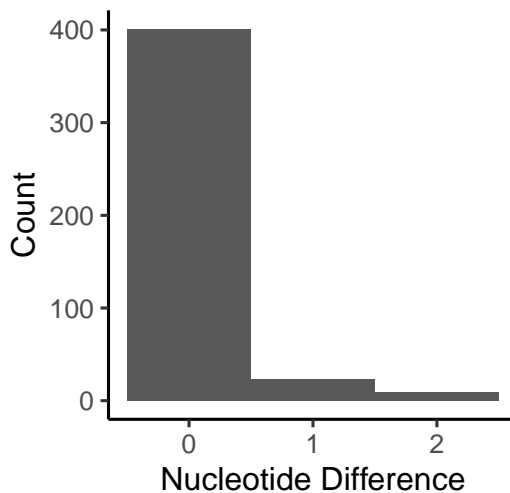
IGHV2-5*02

377 sequences assigned
336 (89.1%) exact matches, in which:
335 unique CDR3
6 unique J



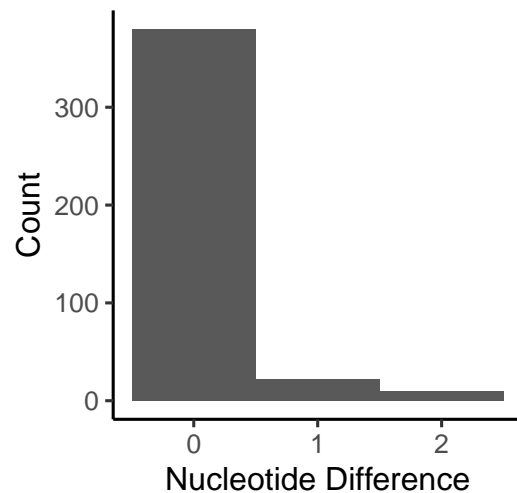
IGHV3-7*01

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



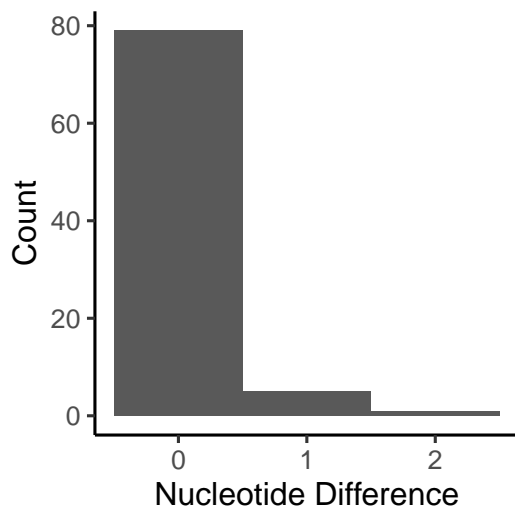
IGHV3-11*01

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



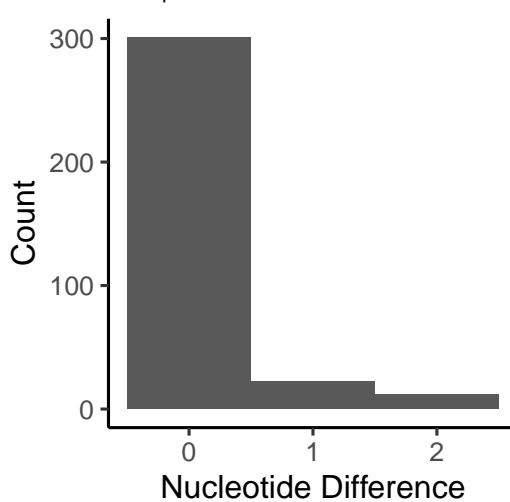
IGHV2-26*01

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



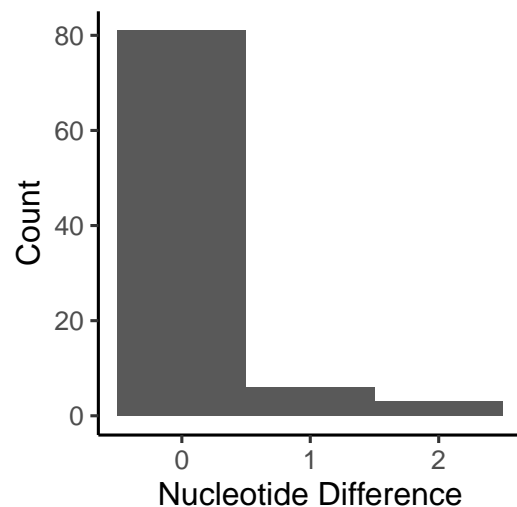
IGHV3-7*03

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



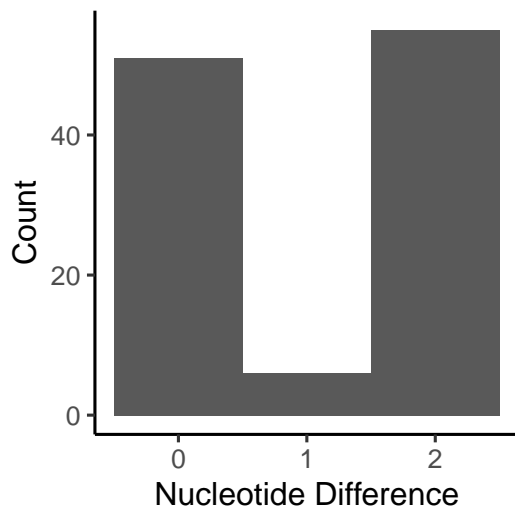
IGHV3-11*06

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



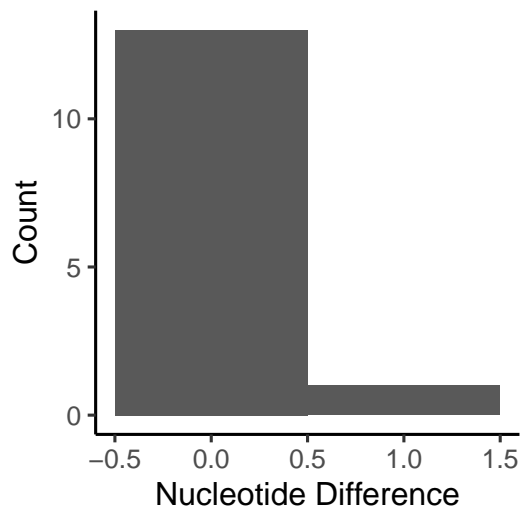
IGHV3-13*01

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



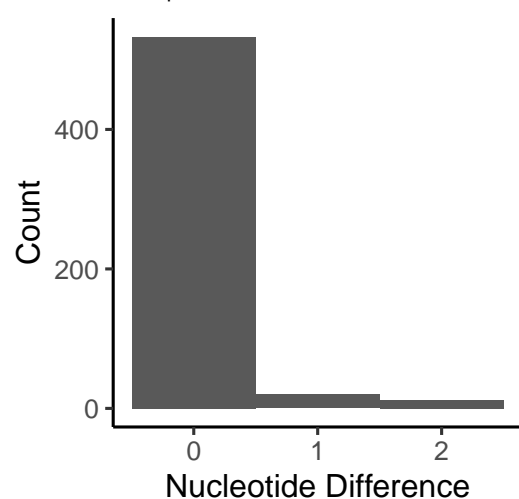
IGHV3-20*03_04

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



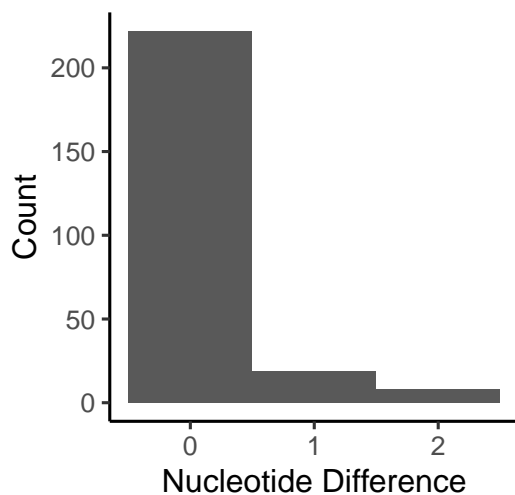
IGHV3-33*01

565 sequences assigned
533 (94.3%) exact matches, in which:
527 unique CDR3
6 unique J



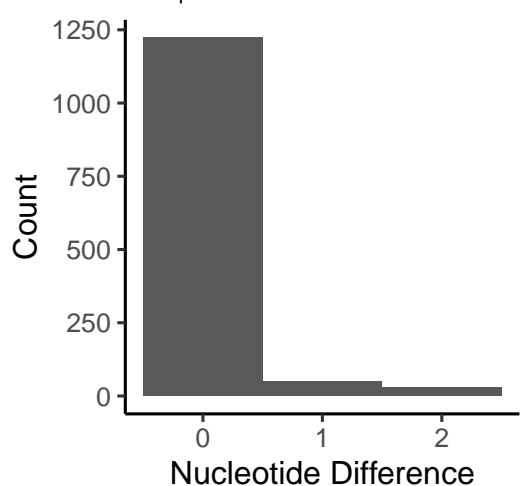
IGHV3-15*07

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



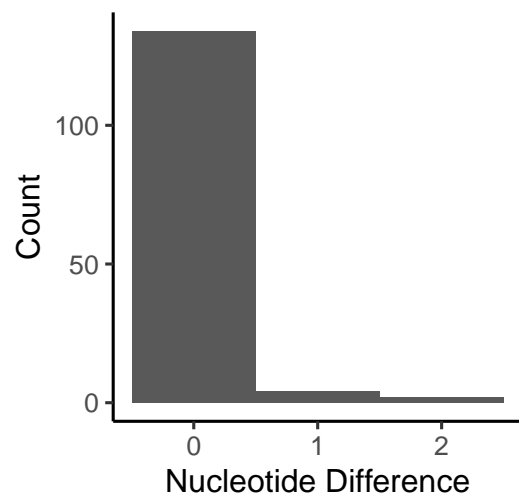
IGHV3-21*01_02

1301 sequences assigned
1223 (94%) exact matches, in which:
1204 unique CDR3
6 unique J



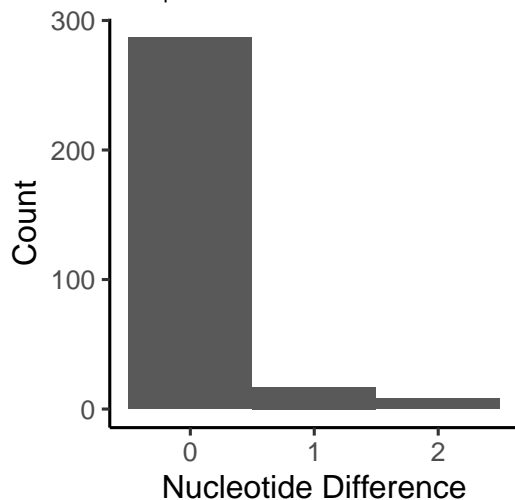
IGHV3-43*01

140 sequences assigned
134 (95.7%) exact matches, in which:
133 unique CDR3
6 unique J



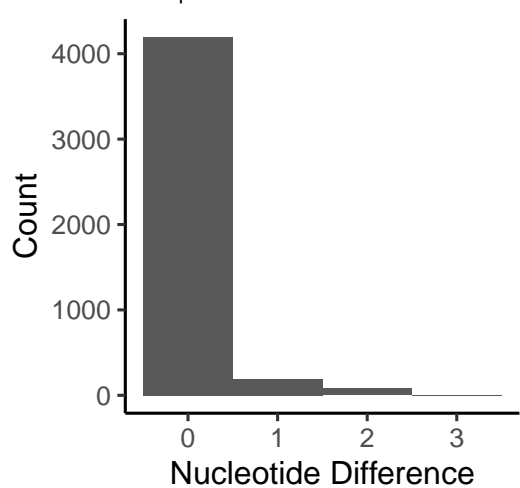
IGHV3-15*01_02

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



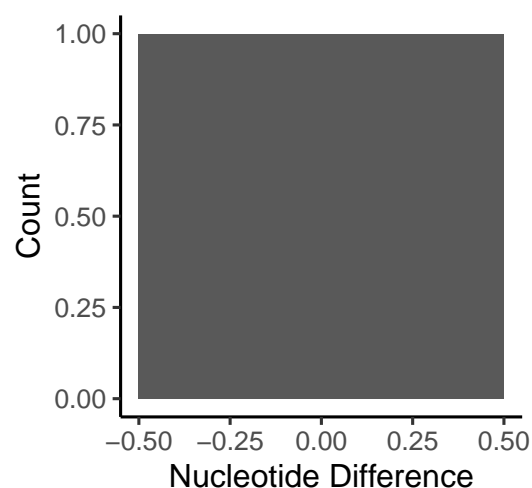
IGHV3-23*01_04

4466 sequences assigned
4195 (93.9%) exact matches, in which:
4111 unique CDR3
6 unique J



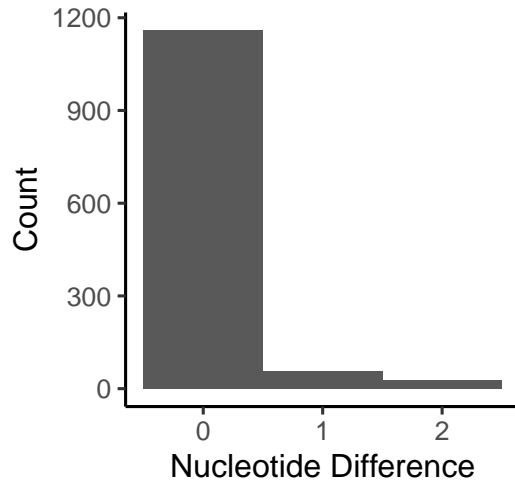
IGHV3-47*02

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



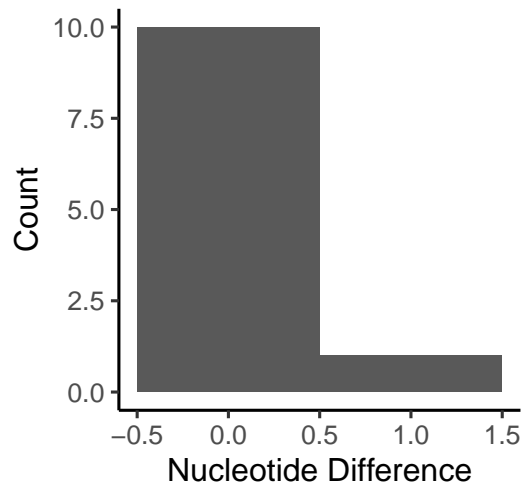
IGHV3-48*02

1240 sequences assigned
1159 (93.5%) exact matches, in which:
1141 unique CDR3
6 unique J



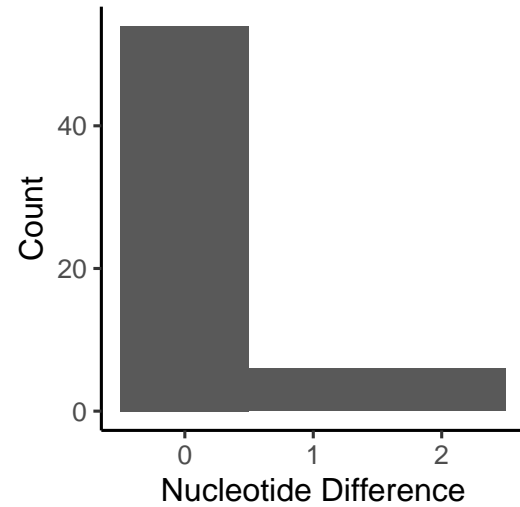
IGHV3-64*02_07

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



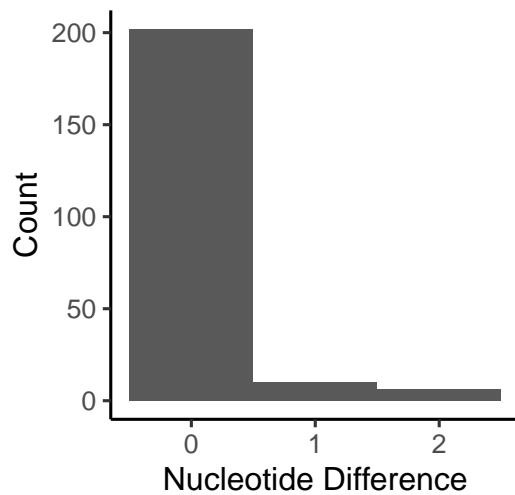
IGHV3-72*01

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



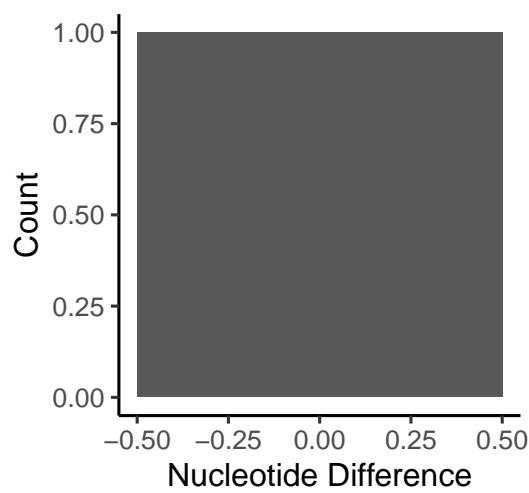
IGHV3-49*03_05

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



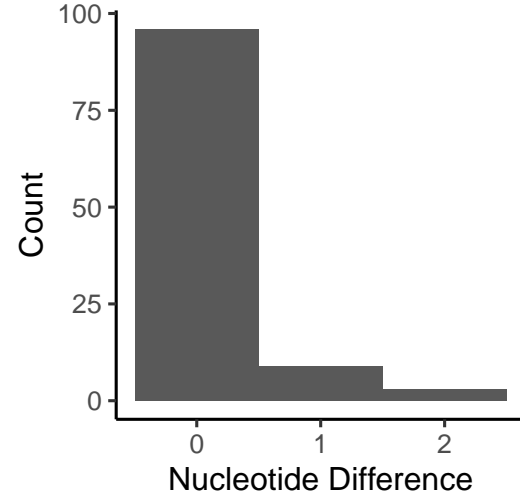
IGHV3-66*03

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



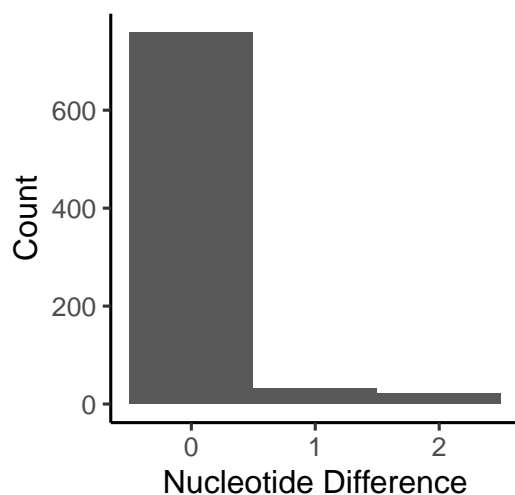
IGHV3-73*01_02

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



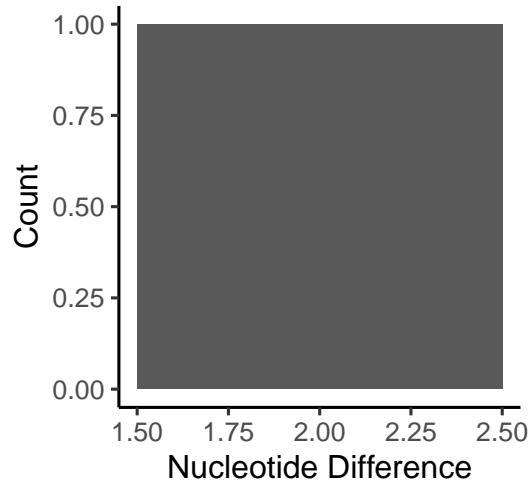
IGHV3-53*01_02

812 sequences assigned
759 (93.5%) exact matches, in which:
745 unique CDR3
6 unique J



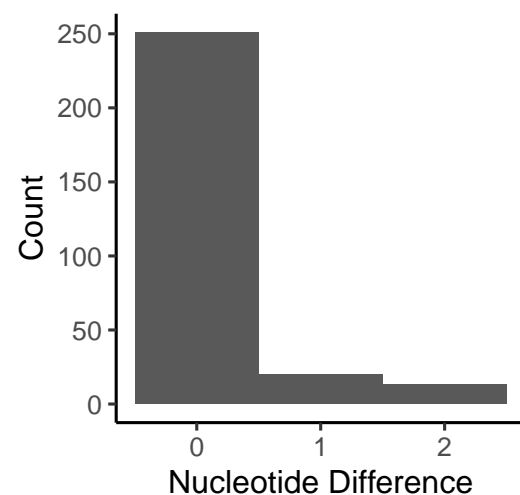
IGHV3-66*04

1 sequences assigned
No exact matches.



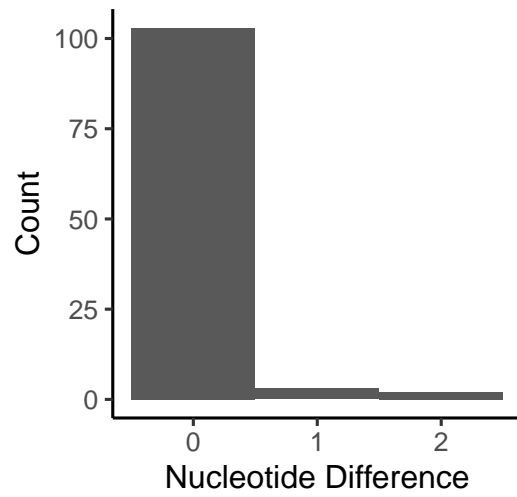
IGHV3-74*01_02

284 sequences assigned
251 (88.4%) exact matches, in which:
248 unique CDR3
6 unique J



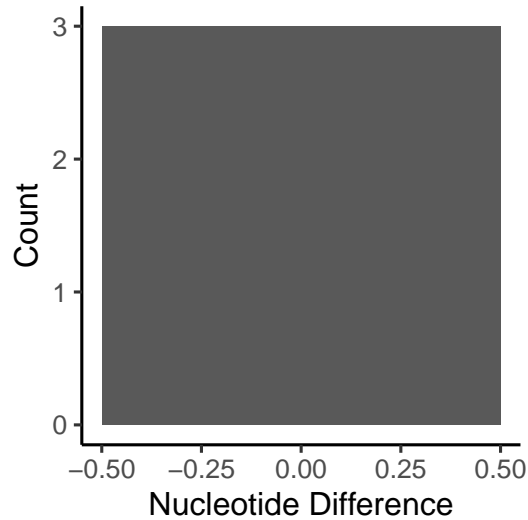
IGHV3-64D*06

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



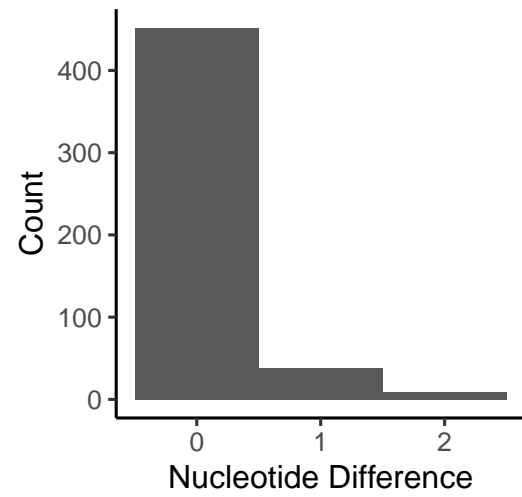
IGHV4-28*01_07

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



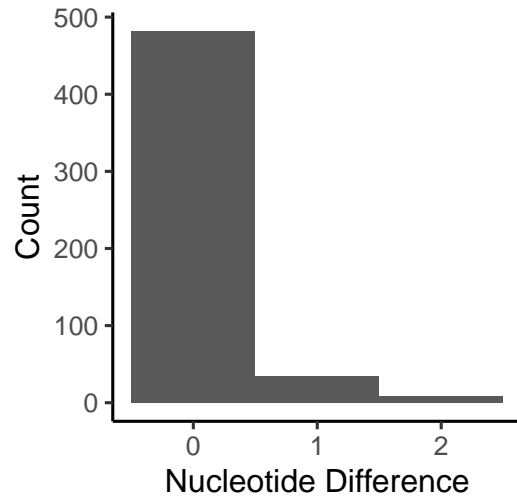
IGHV4-31*02

499 sequences assigned
452 (90.6%) exact matches, in which:
449 unique CDR3
6 unique J



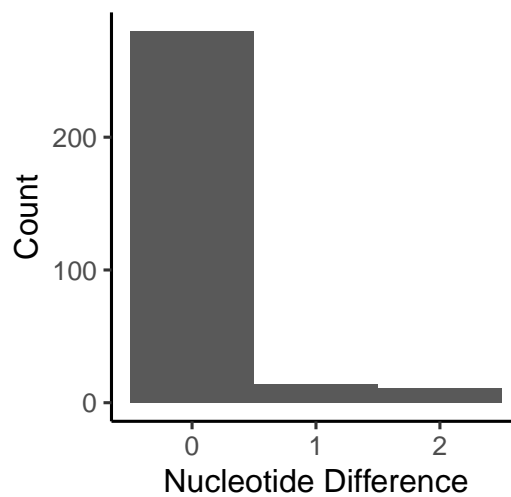
IGHV4-4*02_03

524 sequences assigned
482 (92%) exact matches, in which:
481 unique CDR3
6 unique J



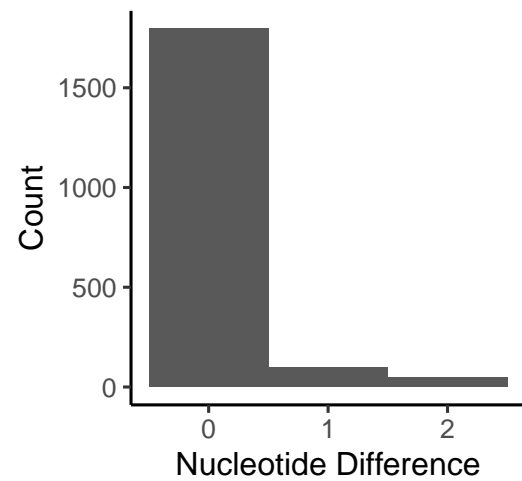
IGHV4-30-2*01

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



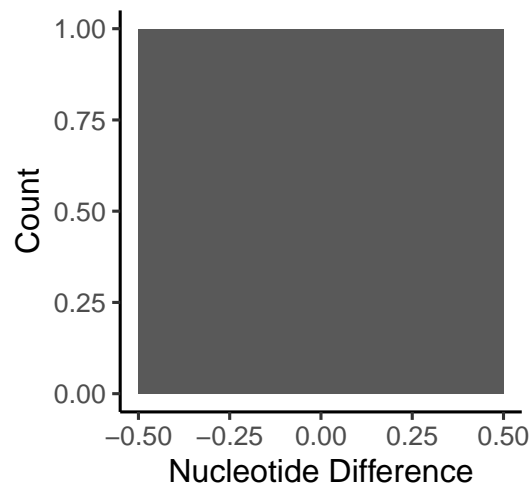
IGHV4-34*01_02

1943 sequences assigned
1796 (92.4%) exact matches, in which:
1758 unique CDR3
6 unique J



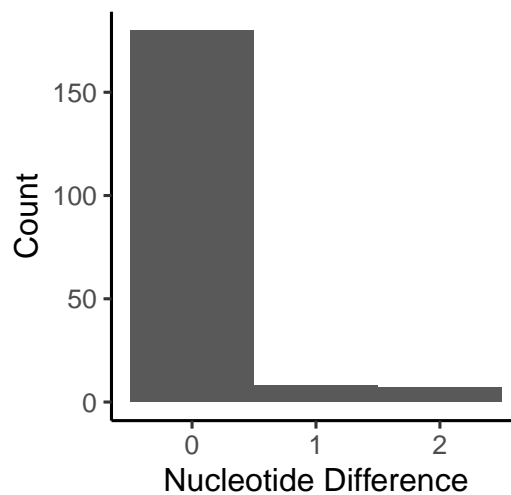
IGHV4-28*03

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



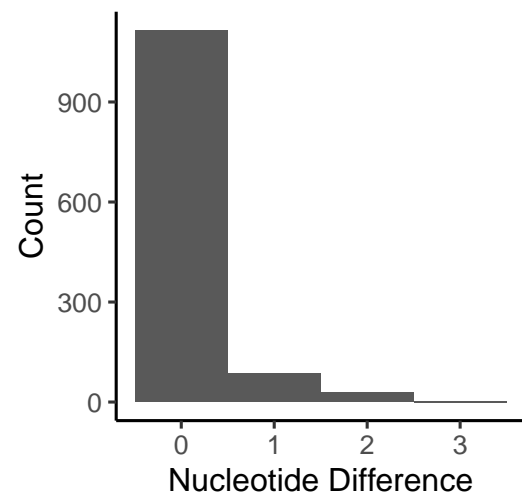
IGHV4-30-4*07

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



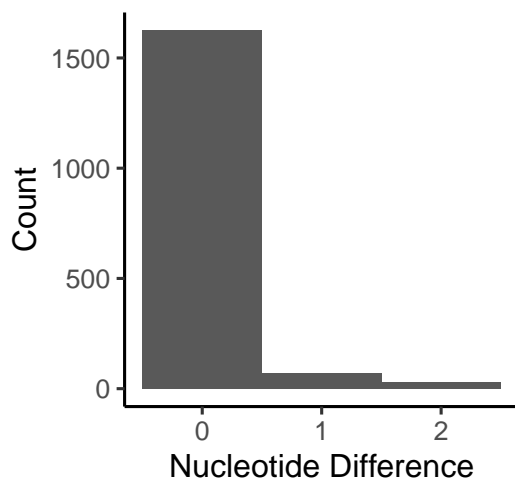
IGHV4-39*02_C258G

1232 sequences assigned
1115 (90.5%) exact matches, in which:
1105 unique CDR3
6 unique J



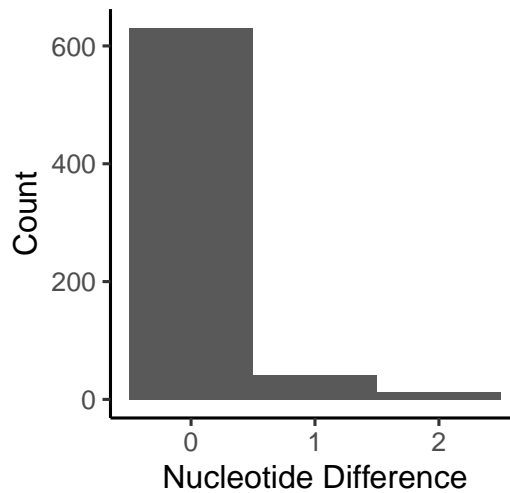
IGHV4-59*02_G88A

1726 sequences assigned
1625 (94.1%) exact matches, in which:
1608 unique CDR3
6 unique J



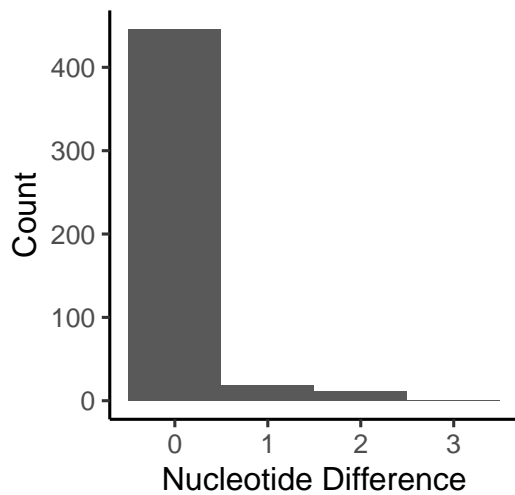
IGHV5-51*07_A128G

684 sequences assigned
631 (92.3%) exact matches, in which:
630 unique CDR3
6 unique J



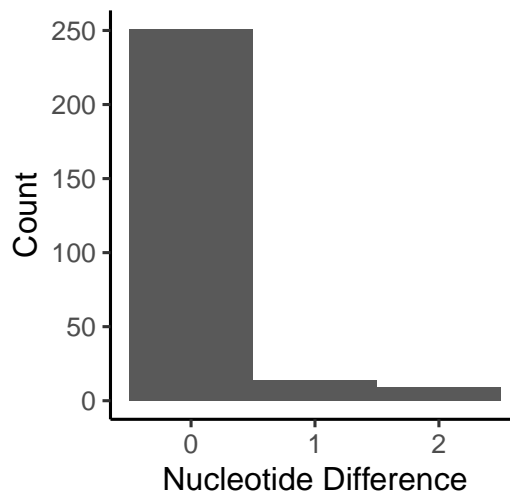
IGHV4-61*01

477 sequences assigned
446 (93.5%) exact matches, in which:
439 unique CDR3
6 unique J



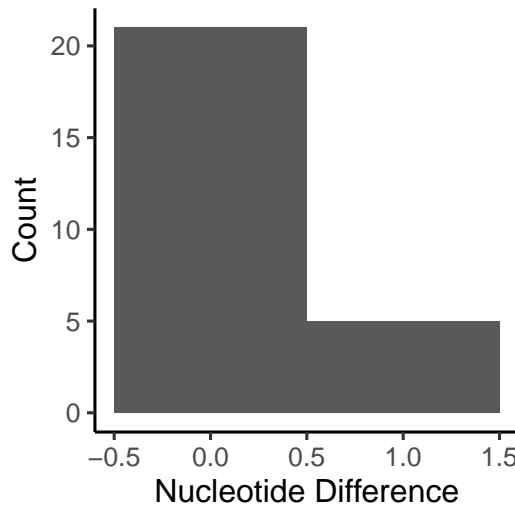
IGHV6-1*01_02

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



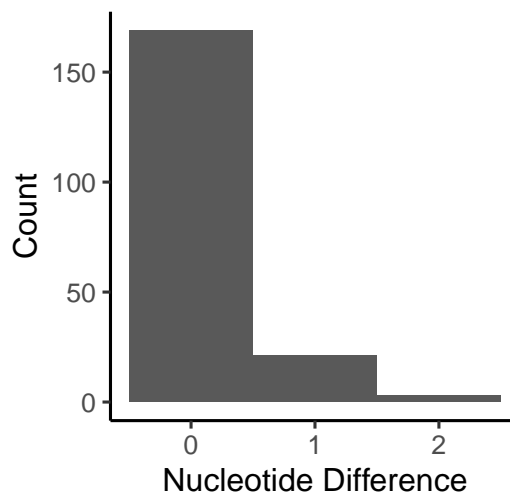
IGHV5-10-1*01_03

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



IGHV7-4-1*02

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





Warning – no inferred sequences found.