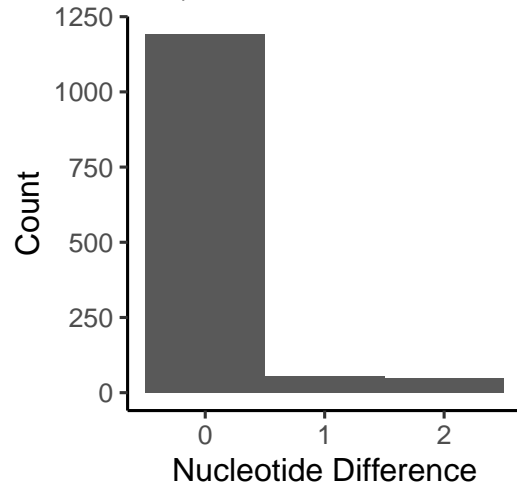


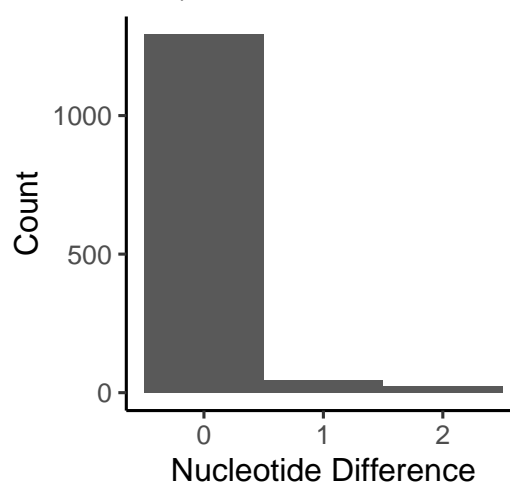
IGHV1-2*02

1294 sequences assigned
1191 (92%) exact matches, in which:
1188 unique CDR3
6 unique J



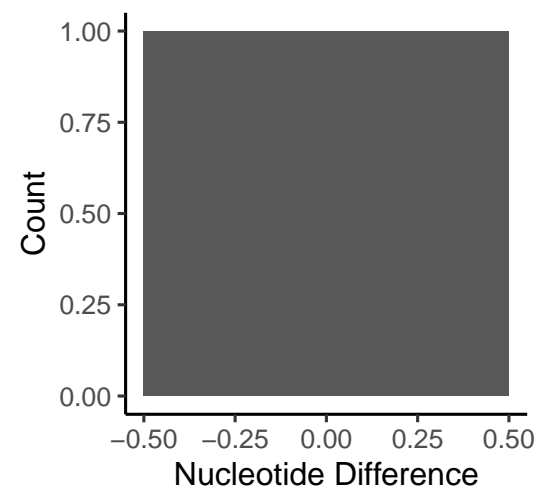
IGHV1-8*01

1361 sequences assigned
1293 (95%) exact matches, in which:
1292 unique CDR3
6 unique J



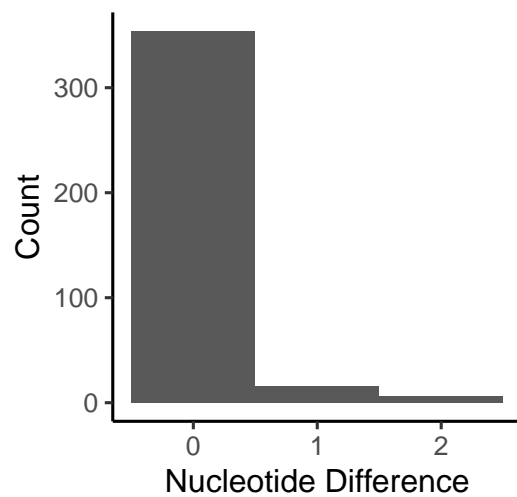
IGHV1-45*02

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



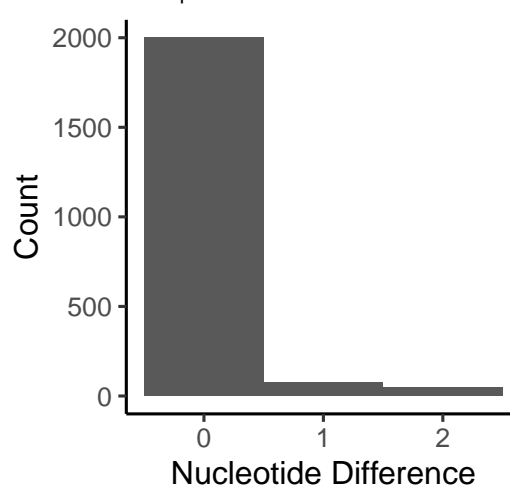
IGHV1-2*04

376 sequences assigned
354 (94.1%) exact matches, in which:
354 unique CDR3
6 unique J



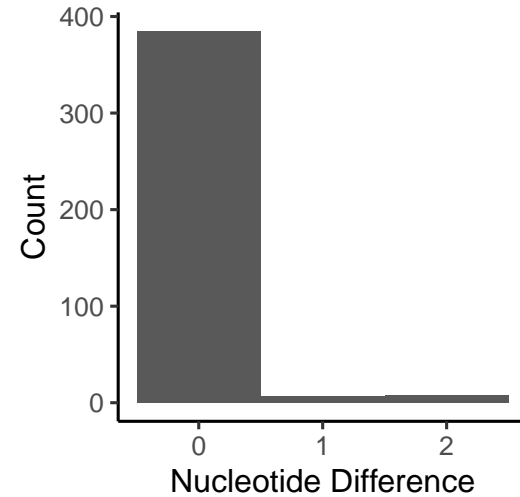
IGHV1-18*01

2126 sequences assigned
2000 (94.1%) exact matches, in which:
1998 unique CDR3
6 unique J



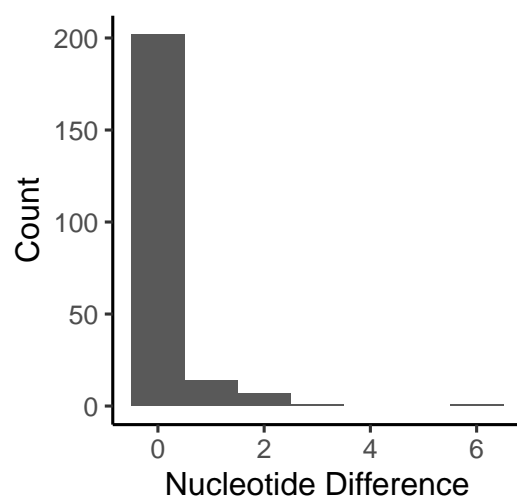
IGHV1-46*01

400 sequences assigned
385 (96.2%) exact matches, in which:
385 unique CDR3
6 unique J



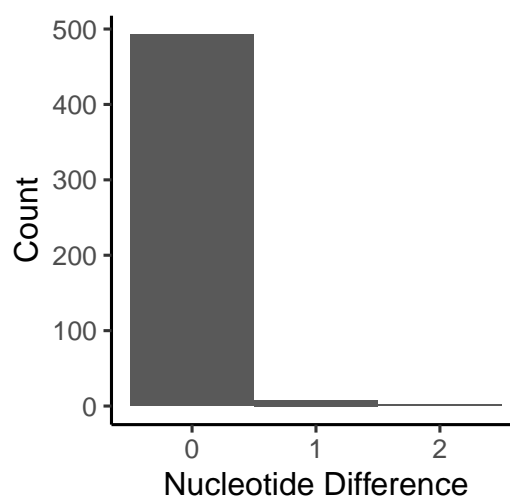
IGHV1-3*01_05

225 sequences assigned
202 (89.8%) exact matches, in which:
202 unique CDR3
6 unique J



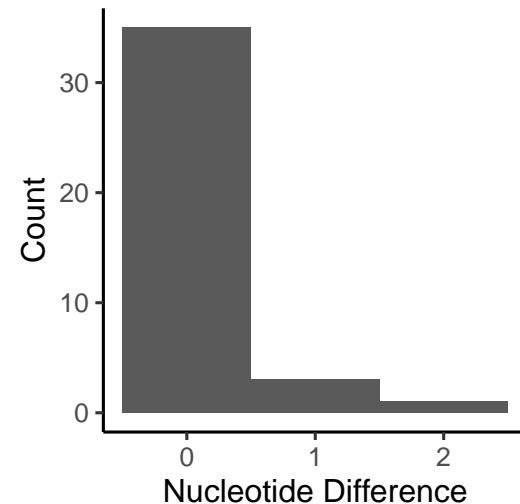
IGHV1-24*01

503 sequences assigned
493 (98%) exact matches, in which:
493 unique CDR3
6 unique J



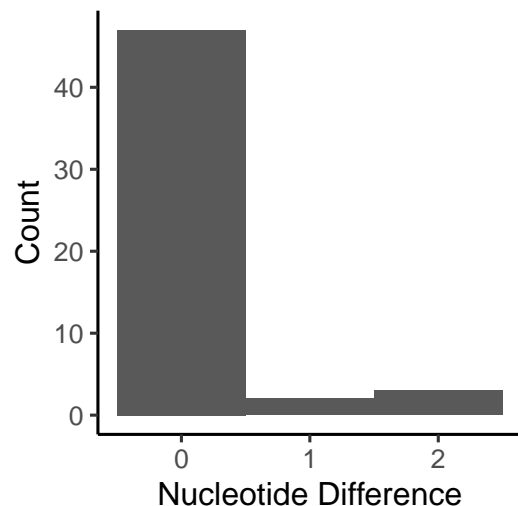
IGHV1-58*02

39 sequences assigned
35 (89.7%) exact matches, in which:
35 unique CDR3
5 unique J



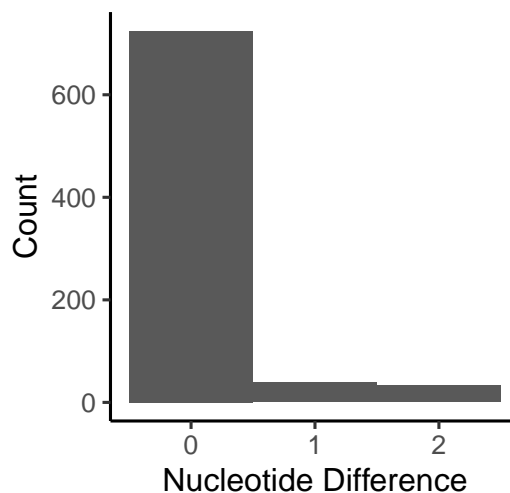
IGHV1-58*01_03

52 sequences assigned
47 (90.4%) exact matches, in which:
47 unique CDR3
5 unique J



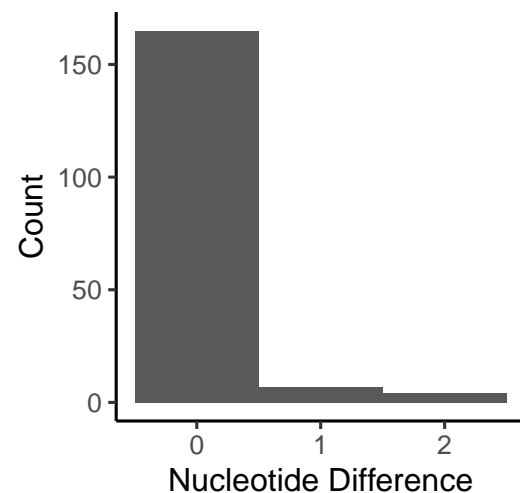
IGHV2-5*01

797 sequences assigned
725 (91%) exact matches, in which:
723 unique CDR3
6 unique J



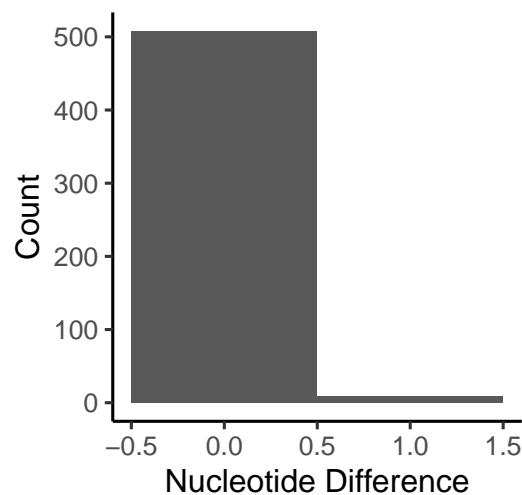
IGHV2-70*01

176 sequences assigned
165 (93.8%) exact matches, in which:
164 unique CDR3
6 unique J



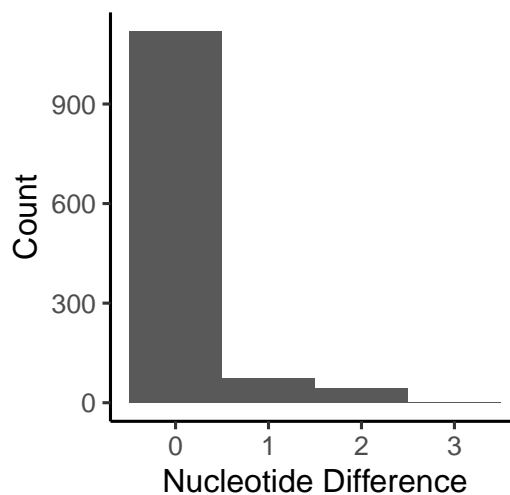
IGHV1-69*01_12_13

517 sequences assigned
508 (98.3%) exact matches, in which:
508 unique CDR3
6 unique J



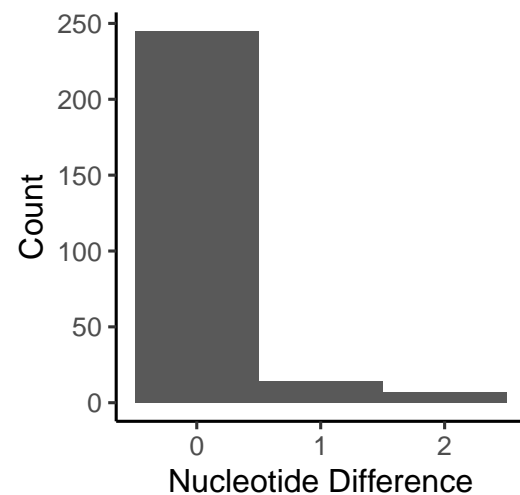
IGHV2-5*02

1239 sequences assigned
1120 (90.4%) exact matches, in which:
1116 unique CDR3
6 unique J



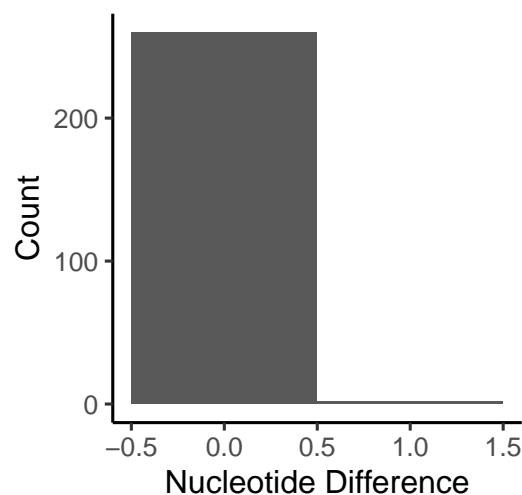
IGHV2-70*11_15

266 sequences assigned
245 (92.1%) exact matches, in which:
245 unique CDR3
5 unique J



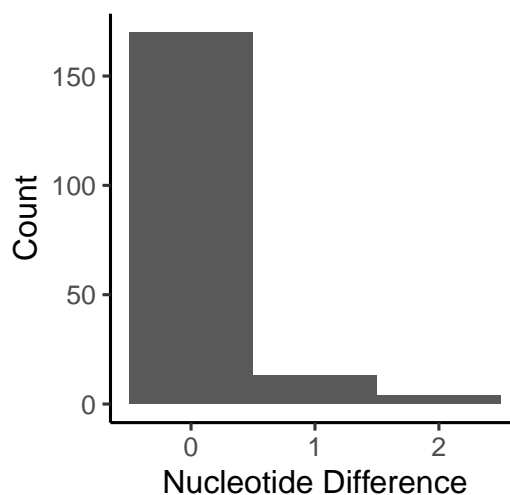
IGHV1-69*04_09

262 sequences assigned
260 (99.2%) exact matches, in which:
260 unique CDR3
6 unique J



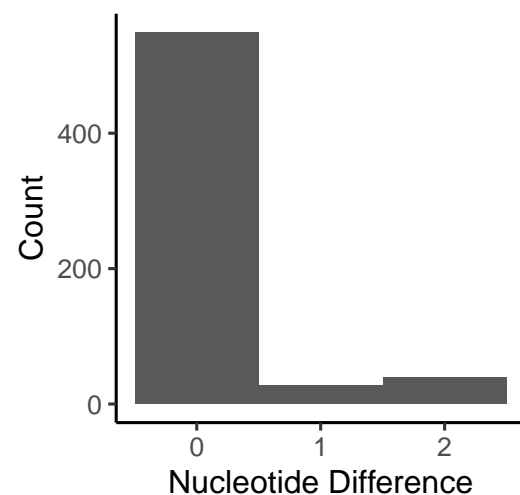
IGHV2-26*01

187 sequences assigned
170 (90.9%) exact matches, in which:
170 unique CDR3
6 unique J



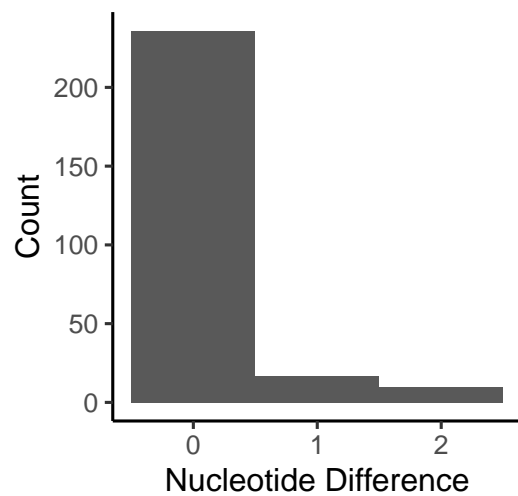
IGHV3-7*01

615 sequences assigned
549 (89.3%) exact matches, in which:
548 unique CDR3
6 unique J



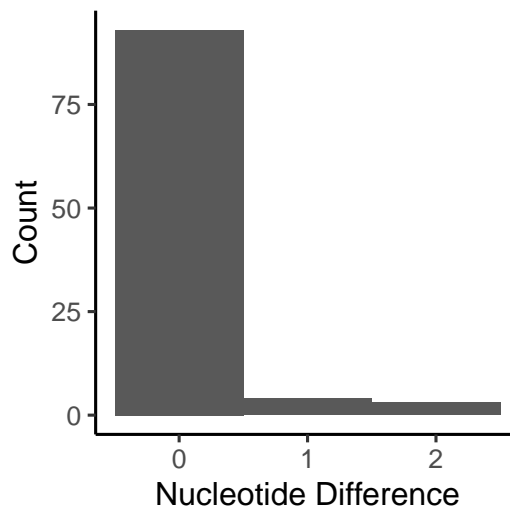
IGHV3-9*01

263 sequences assigned
236 (89.7%) exact matches, in which:
235 unique CDR3
6 unique J



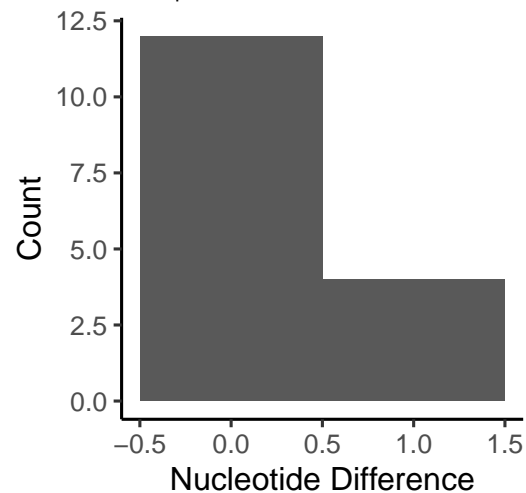
IGHV3-15*07

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



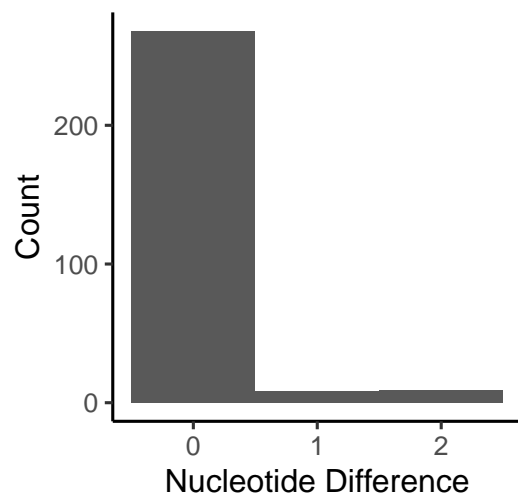
IGHV3-20*03_04

16 sequences assigned
12 (75%) exact matches, in which:
12 unique CDR3
5 unique J



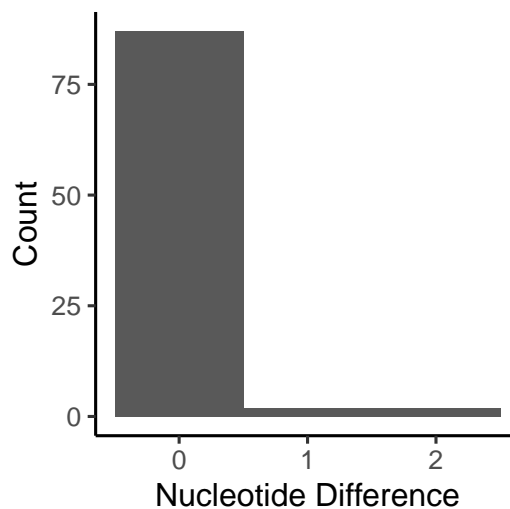
IGHV3-11*01

285 sequences assigned
268 (94%) exact matches, in which:
268 unique CDR3
6 unique J



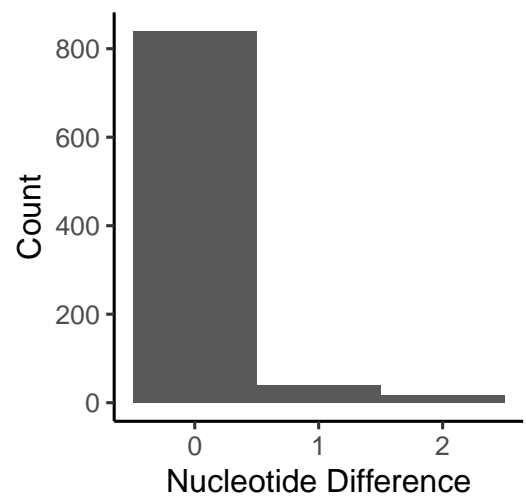
IGHV3-15*01_02

91 sequences assigned
87 (95.6%) exact matches, in which:
87 unique CDR3
5 unique J



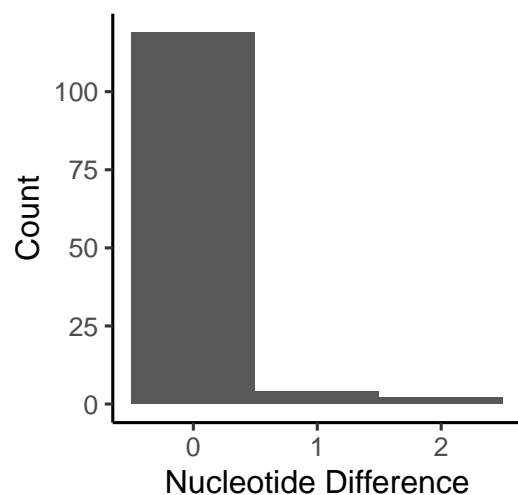
IGHV3-21*01_02

896 sequences assigned
840 (93.8%) exact matches, in which:
839 unique CDR3
6 unique J



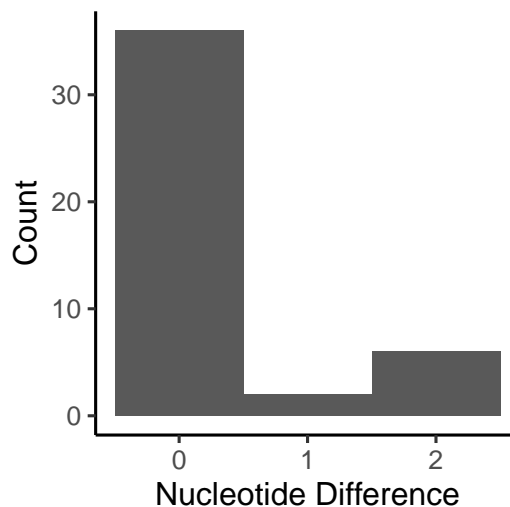
IGHV3-13*01

125 sequences assigned
119 (95.2%) exact matches, in which:
119 unique CDR3
5 unique J



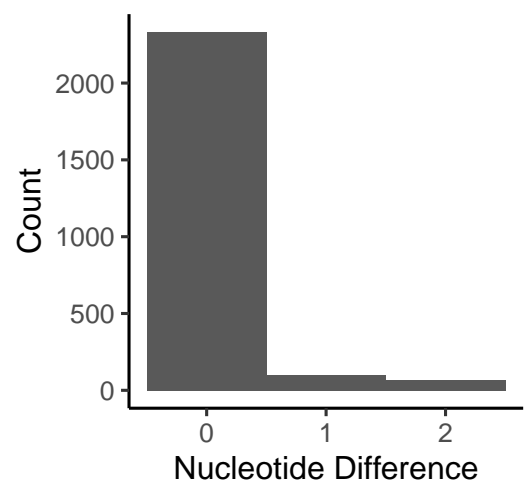
IGHV3-20*01_02

44 sequences assigned
36 (81.8%) exact matches, in which:
36 unique CDR3
5 unique J



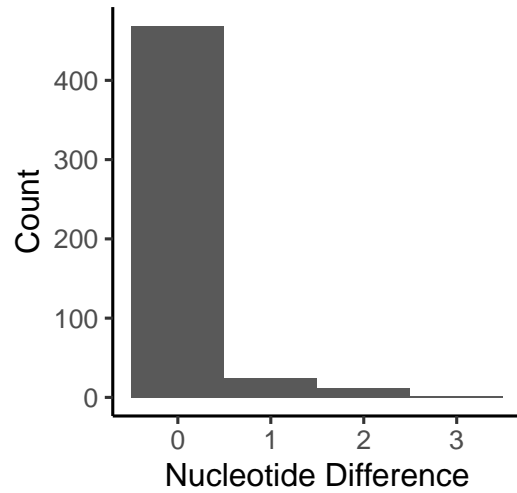
IGHV3-23*01_04

2501 sequences assigned
2332 (93.2%) exact matches, in which:
2315 unique CDR3
6 unique J



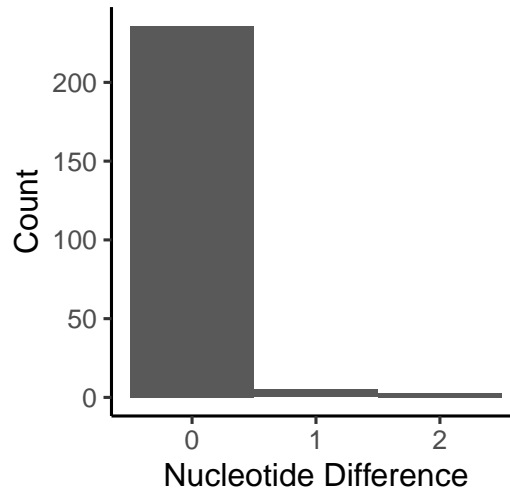
IGHV3-30-3*01

507 sequences assigned
469 (92.5%) exact matches, in which:
468 unique CDR3
6 unique J



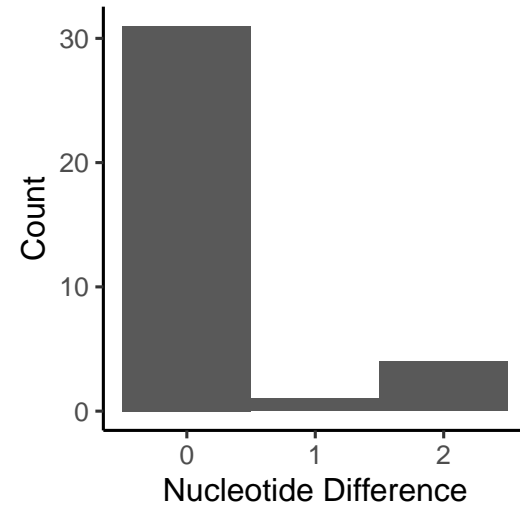
IGHV3-43*02

244 sequences assigned
236 (96.7%) exact matches, in which:
235 unique CDR3
6 unique J



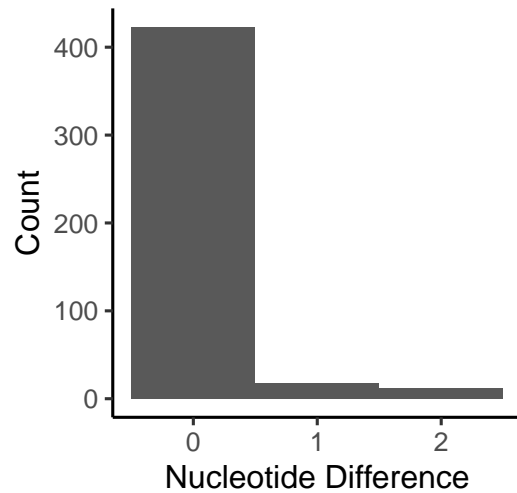
IGHV3-49*04

36 sequences assigned
31 (86.1%) exact matches, in which:
31 unique CDR3
4 unique J



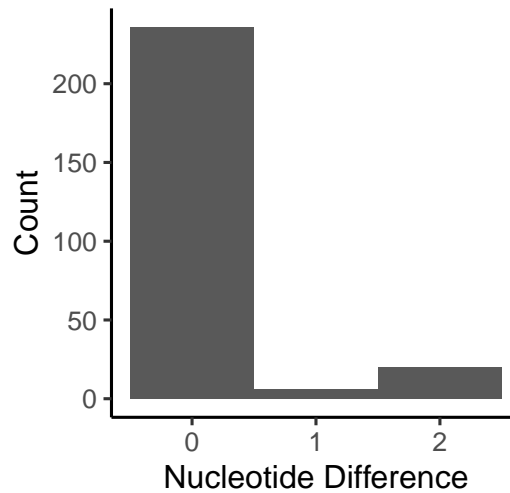
IGHV3-33*01

453 sequences assigned
423 (93.4%) exact matches, in which:
423 unique CDR3
6 unique J



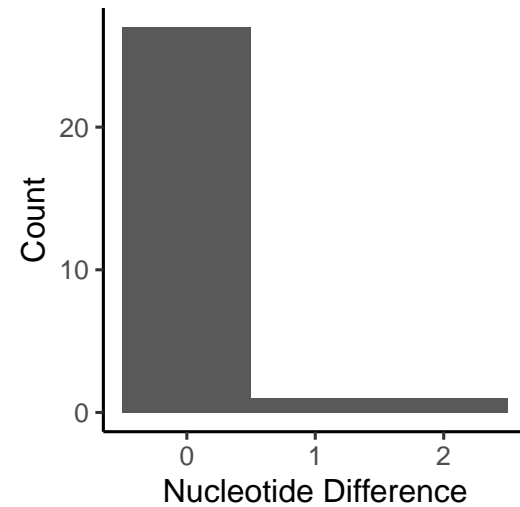
IGHV3-48*02

262 sequences assigned
236 (90.1%) exact matches, in which:
234 unique CDR3
6 unique J



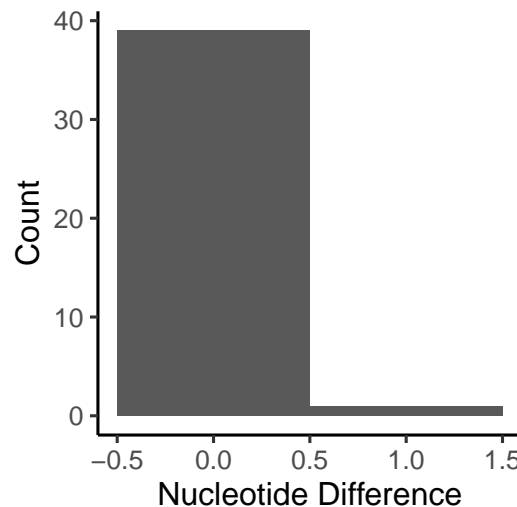
IGHV3-49*03_05

29 sequences assigned
27 (93.1%) exact matches, in which:
27 unique CDR3
5 unique J



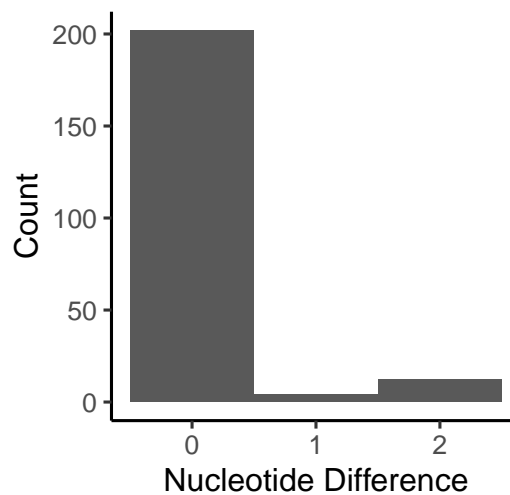
IGHV3-43*01

40 sequences assigned
39 (97.5%) exact matches, in which:
39 unique CDR3
5 unique J



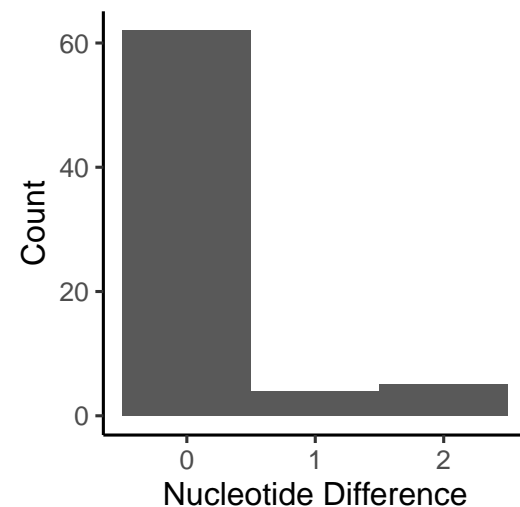
IGHV3-48*03

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



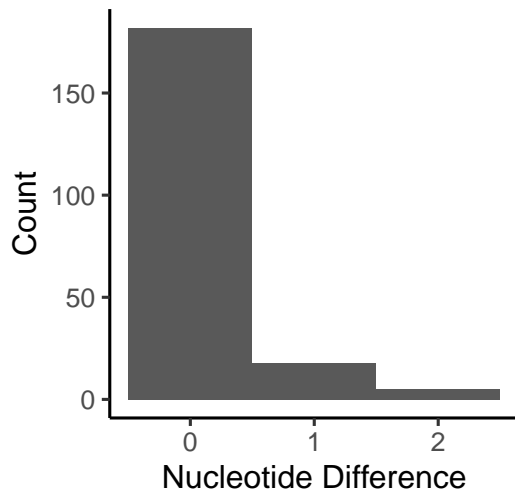
IGHV3-53*04

71 sequences assigned
62 (87.3%) exact matches, in which:
62 unique CDR3
5 unique J



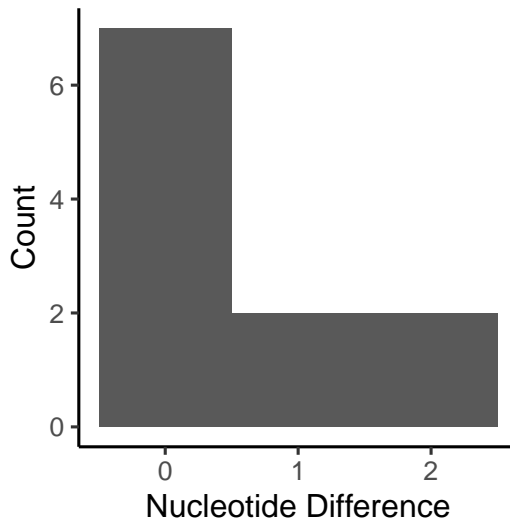
IGHV3-53*01_02

205 sequences assigned
182 (88.8%) exact matches, in which:
180 unique CDR3
5 unique J



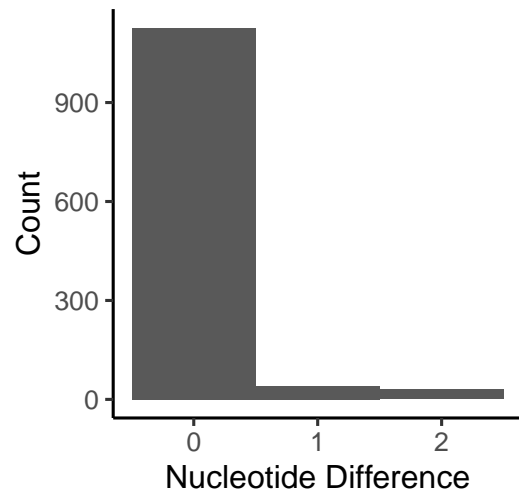
IGHV3-72*01

11 sequences assigned
7 (63.6%) exact matches, in which:
7 unique CDR3
3 unique J



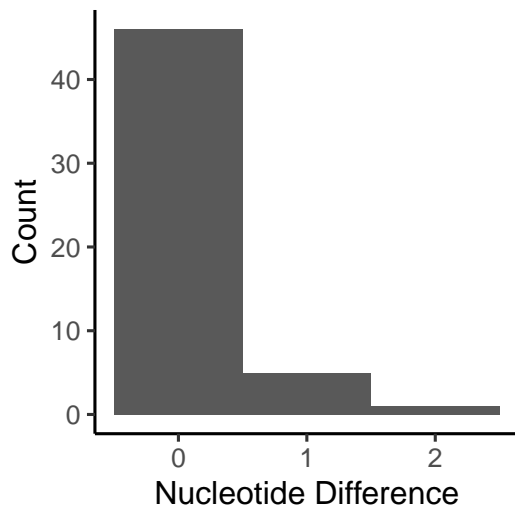
IGHV4-4*07

1198 sequences assigned
1127 (94.1%) exact matches, in which:
1112 unique CDR3
6 unique J



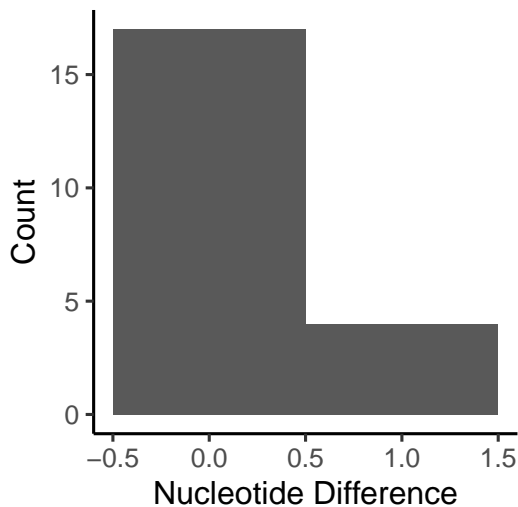
IGHV3-64*01

52 sequences assigned
46 (88.5%) exact matches, in which:
46 unique CDR3
5 unique J



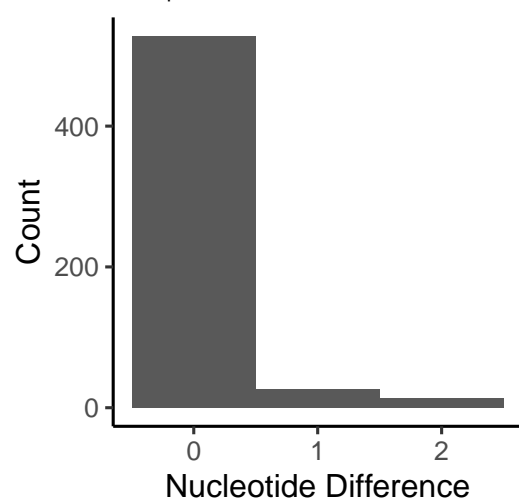
IGHV3-73*01_02

21 sequences assigned
17 (81%) exact matches, in which:
17 unique CDR3
4 unique J



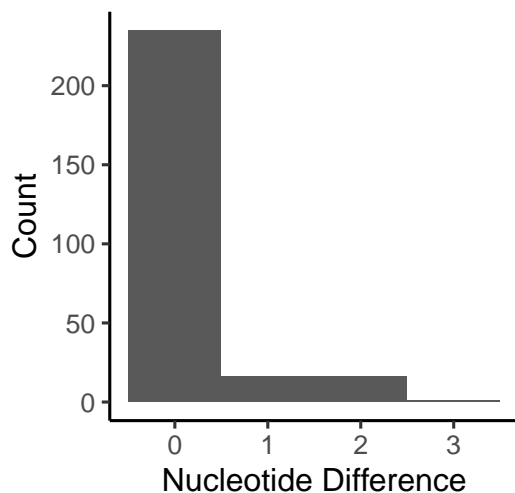
IGHV4-4*02_03

567 sequences assigned
528 (93.1%) exact matches, in which:
526 unique CDR3
6 unique J



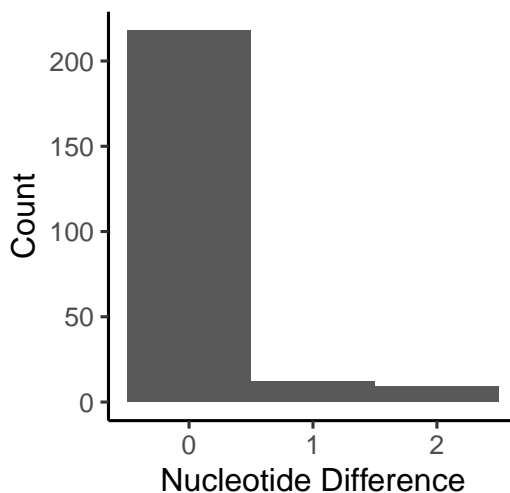
IGHV3-66*01

268 sequences assigned
235 (87.7%) exact matches, in which:
232 unique CDR3
6 unique J



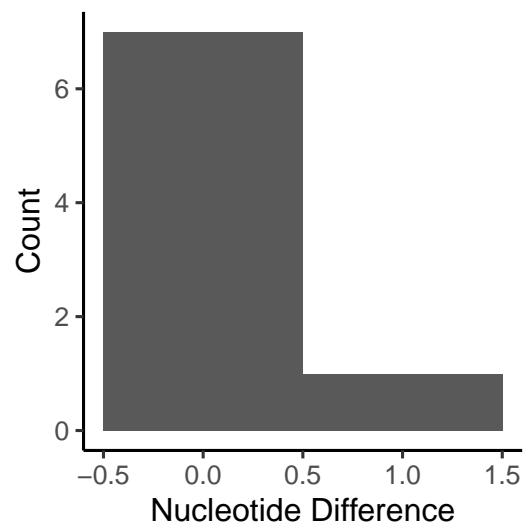
IGHV3-74*01_02

239 sequences assigned
218 (91.2%) exact matches, in which:
214 unique CDR3
5 unique J



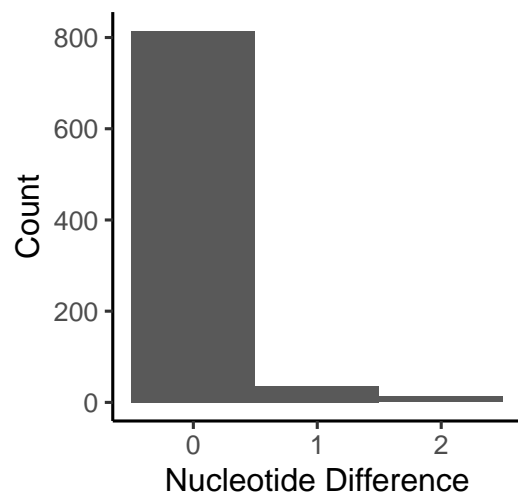
IGHV4-28*01_07

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



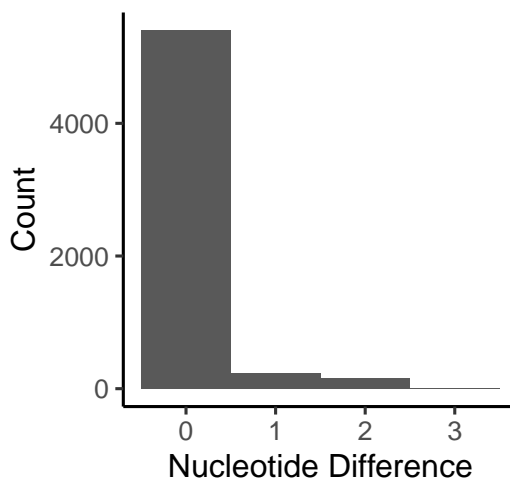
IGHV4-30-2*01

864 sequences assigned
815 (94.3%) exact matches, in which:
786 unique CDR3
6 unique J



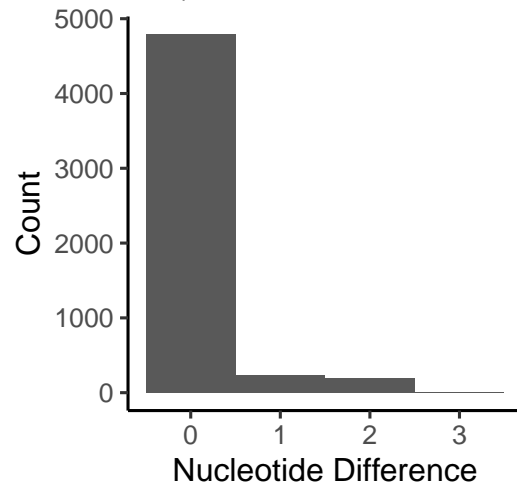
IGHV4-34*01_02

5804 sequences assigned
5401 (93.1%) exact matches, in which:
5308 unique CDR3
6 unique J



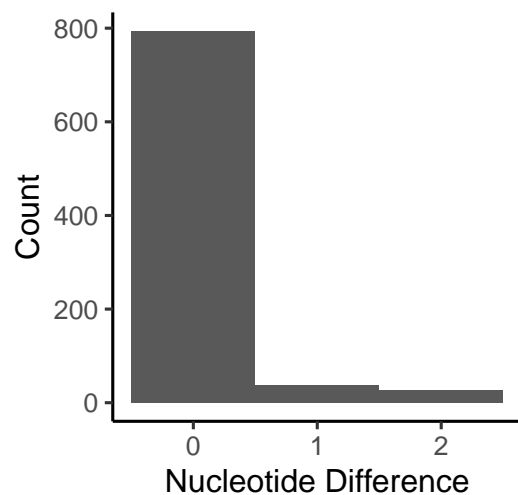
IGHV4-59*02_G88A

5221 sequences assigned
4790 (91.7%) exact matches, in which:
4708 unique CDR3
6 unique J



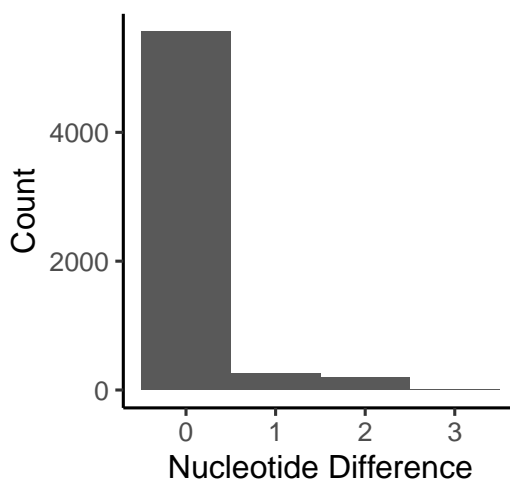
IGHV4-30-4*01

858 sequences assigned
794 (92.5%) exact matches, in which:
786 unique CDR3
6 unique J



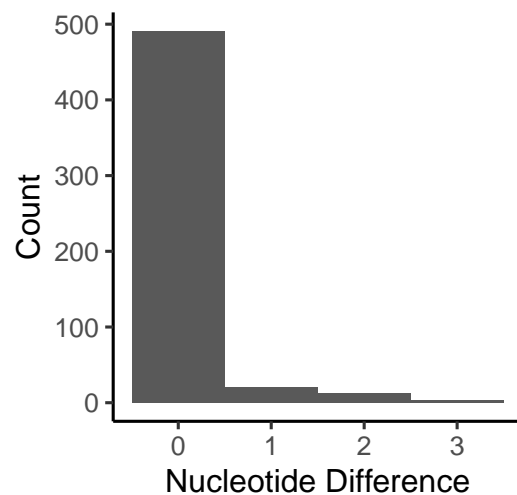
IGHV4-39*02_C258G

6018 sequences assigned
5562 (92.4%) exact matches, in which:
5475 unique CDR3
6 unique J



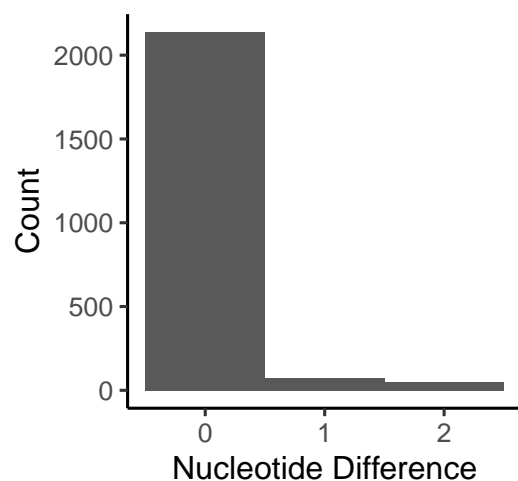
IGHV4-61*01

528 sequences assigned
491 (93%) exact matches, in which:
486 unique CDR3
6 unique J



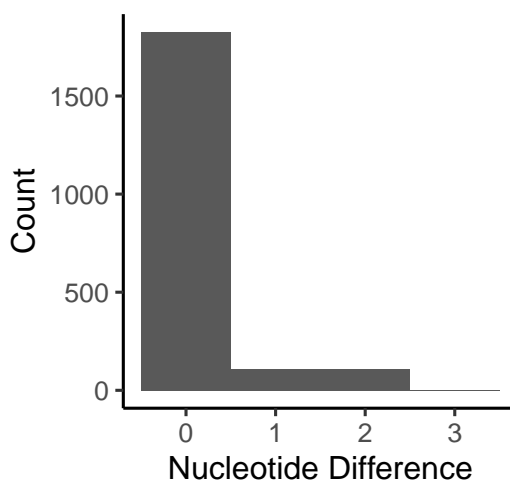
IGHV4-31*02

2259 sequences assigned
2138 (94.6%) exact matches, in which:
2120 unique CDR3
6 unique J



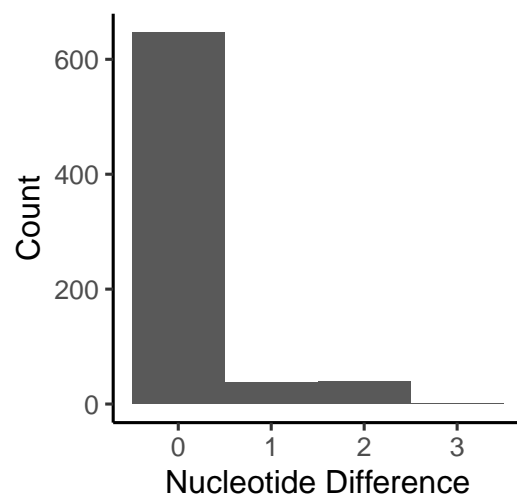
IGHV4-59*08

2047 sequences assigned
1826 (89.2%) exact matches, in which:
1795 unique CDR3
6 unique J



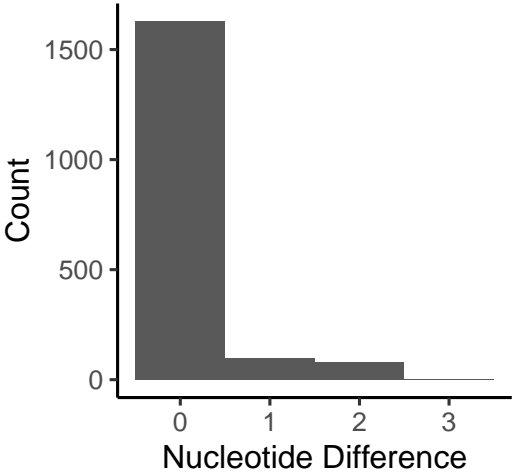
IGHV5-51*07_A128G

724 sequences assigned
647 (89.4%) exact matches, in which:
647 unique CDR3
6 unique J



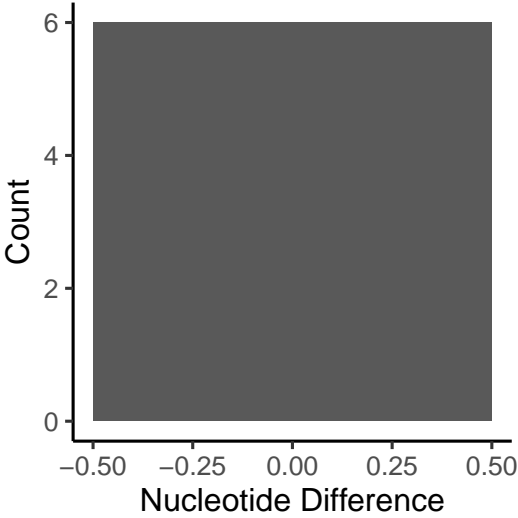
IGHV6-1*01_02

1810 sequences assigned
1628 (89.9%) exact matches, in which:
1622 unique CDR3
6 unique J



IGHV7-4-1*01

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
2 unique J





Warning – no inferred sequences found.