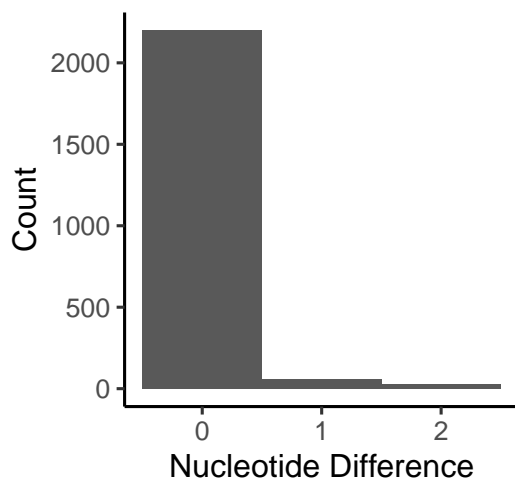


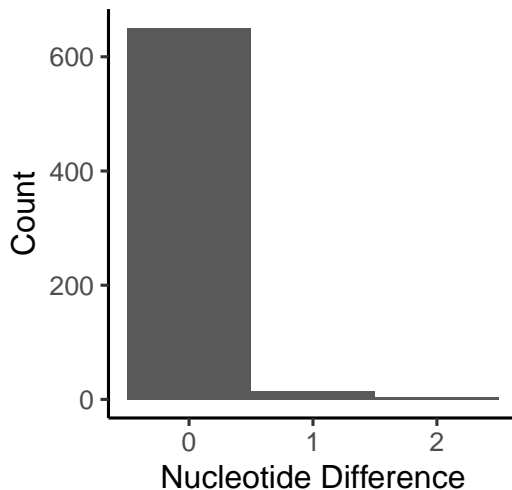
IGHV1-2*02

2286 sequences assigned
2199 (96.2%) exact matches, in which:
2192 unique CDR3
6 unique J



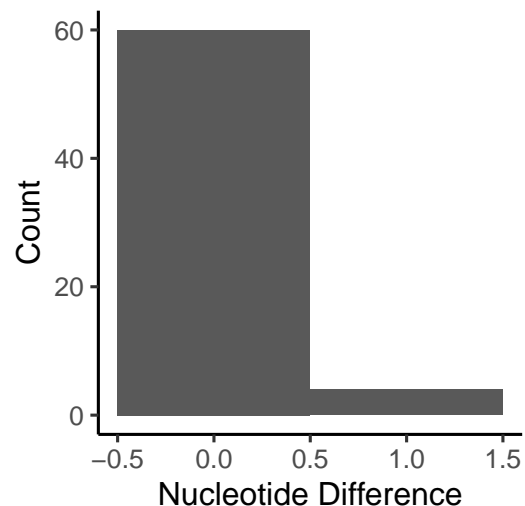
IGHV1-24*01

670 sequences assigned
651 (97.2%) exact matches, in which:
651 unique CDR3
6 unique J



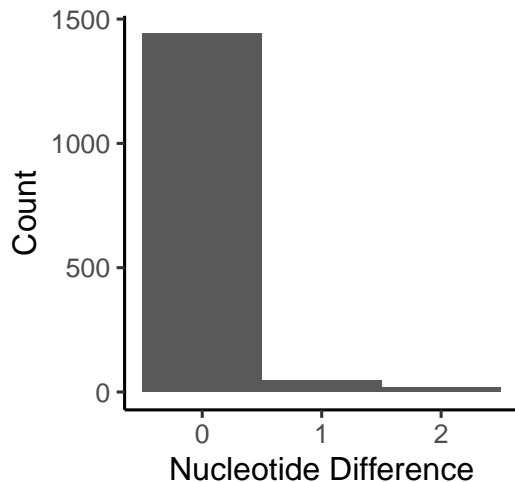
IGHV1-58*02

64 sequences assigned
60 (93.8%) exact matches, in which:
60 unique CDR3
4 unique J



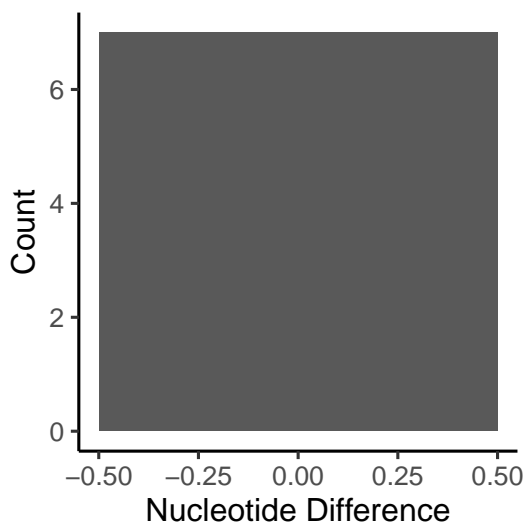
IGHV1-8*01

1508 sequences assigned
1441 (95.6%) exact matches, in which:
1438 unique CDR3
6 unique J



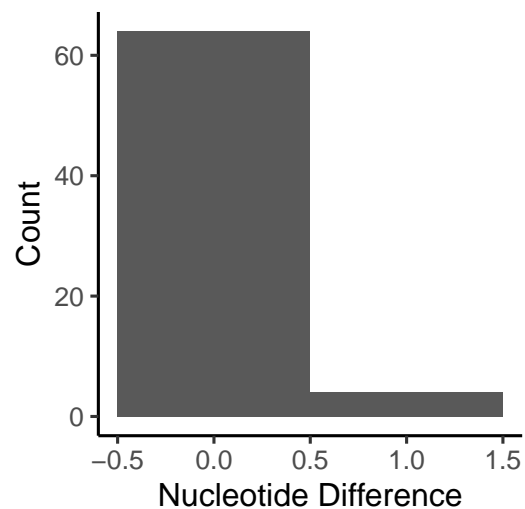
IGHV1-45*02

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



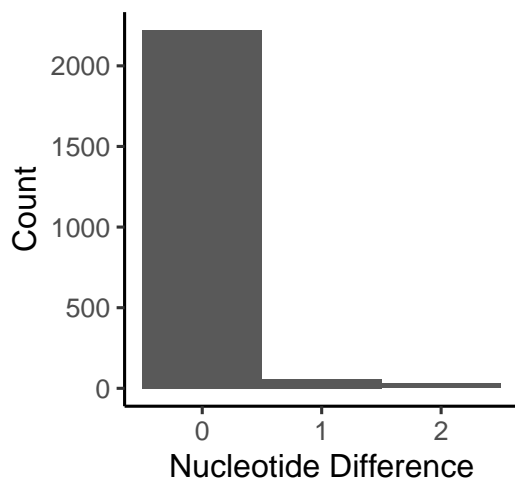
IGHV1-58*01_03

68 sequences assigned
64 (94.1%) exact matches, in which:
64 unique CDR3
6 unique J



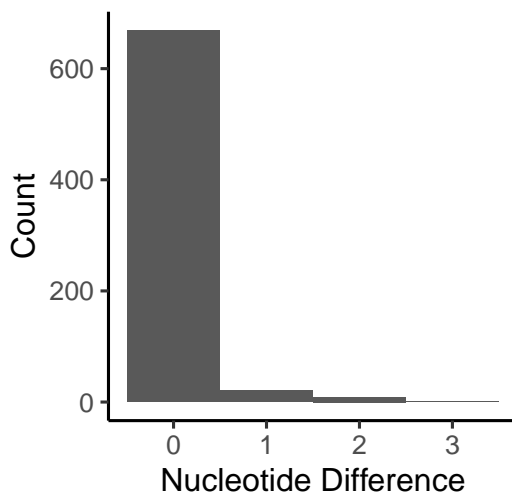
IGHV1-18*01

2311 sequences assigned
2222 (96.1%) exact matches, in which:
2222 unique CDR3
6 unique J



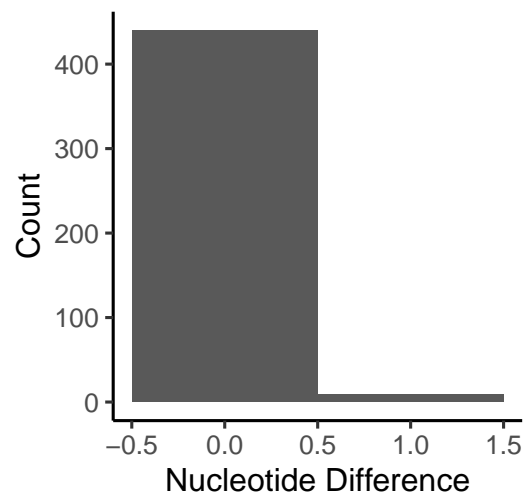
IGHV1-46*01

699 sequences assigned
669 (95.7%) exact matches, in which:
668 unique CDR3
6 unique J



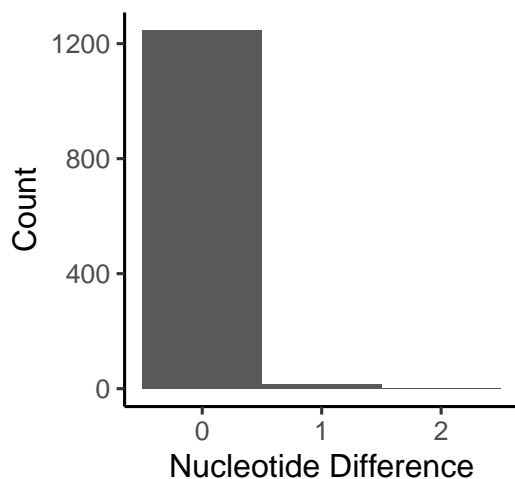
IGHV1-69*02

449 sequences assigned
440 (98%) exact matches, in which:
440 unique CDR3
6 unique J



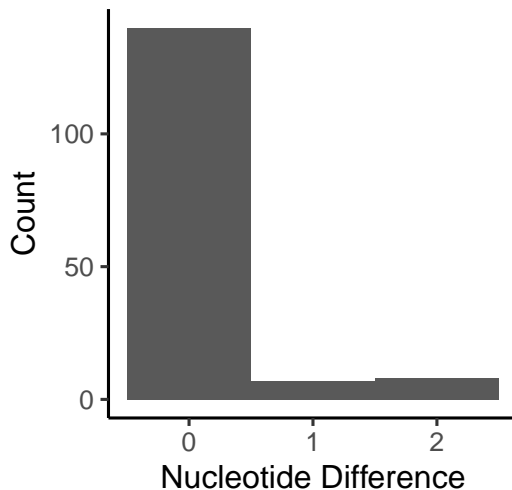
IGHV1-69*01_12_13

1265 sequences assigned
1246 (98.5%) exact matches, in which:
1245 unique CDR3
6 unique J



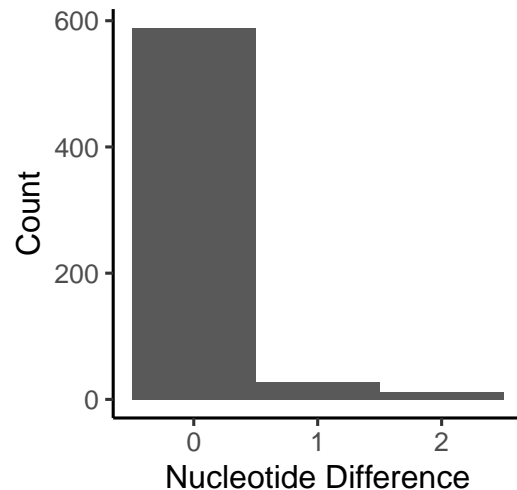
IGHV2-26*01

155 sequences assigned
140 (90.3%) exact matches, in which:
140 unique CDR3
5 unique J



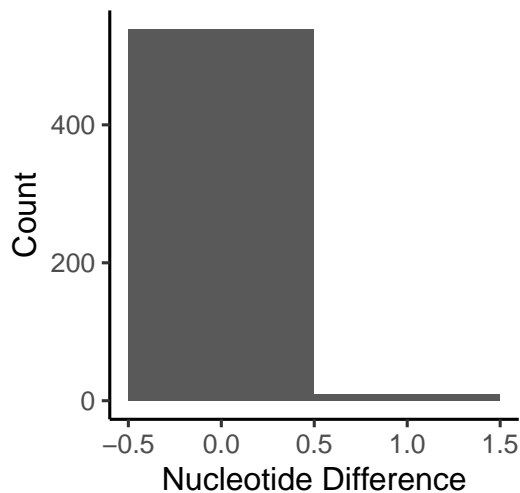
IGHV3-9*01

629 sequences assigned
589 (93.6%) exact matches, in which:
579 unique CDR3
6 unique J



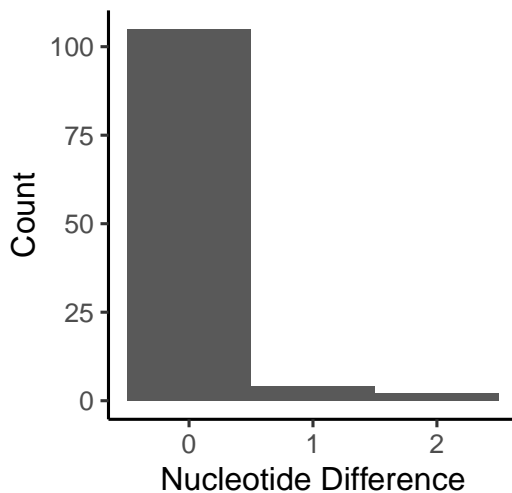
IGHV1-69*17

548 sequences assigned
539 (98.4%) exact matches, in which:
538 unique CDR3
6 unique J



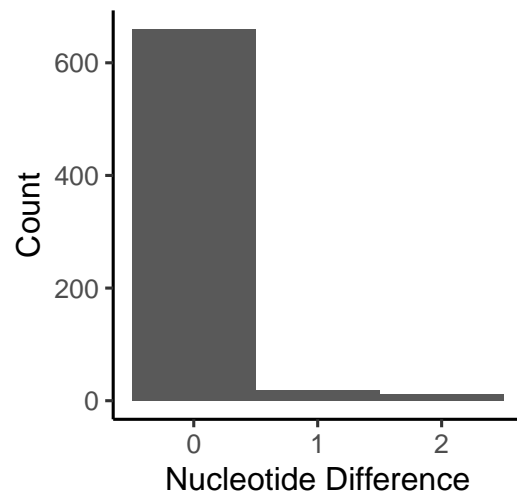
IGHV2-70*01

111 sequences assigned
105 (94.6%) exact matches, in which:
105 unique CDR3
5 unique J



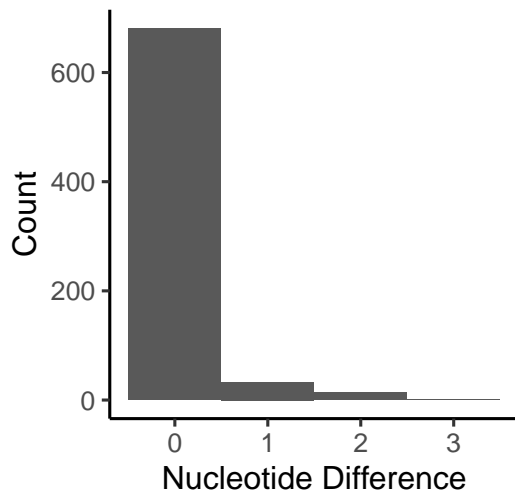
IGHV3-11*01

689 sequences assigned
660 (95.8%) exact matches, in which:
638 unique CDR3
6 unique J



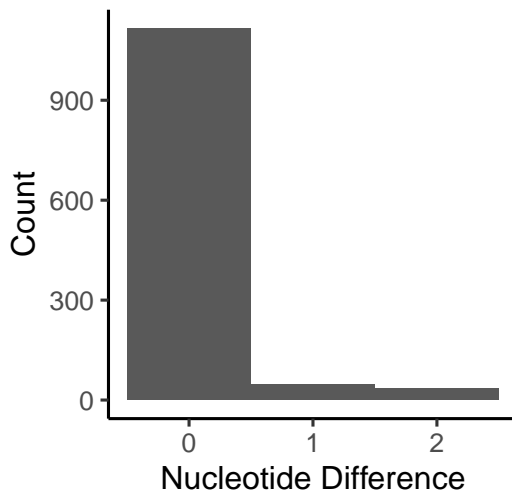
IGHV2-5*01

729 sequences assigned
681 (93.4%) exact matches, in which:
680 unique CDR3
6 unique J



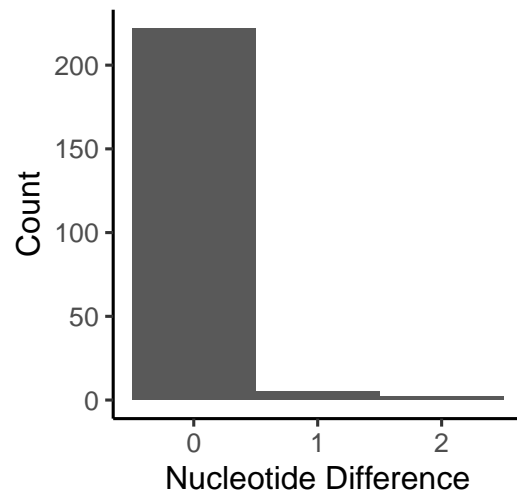
IGHV3-7*01

1198 sequences assigned
1116 (93.2%) exact matches, in which:
1082 unique CDR3
6 unique J



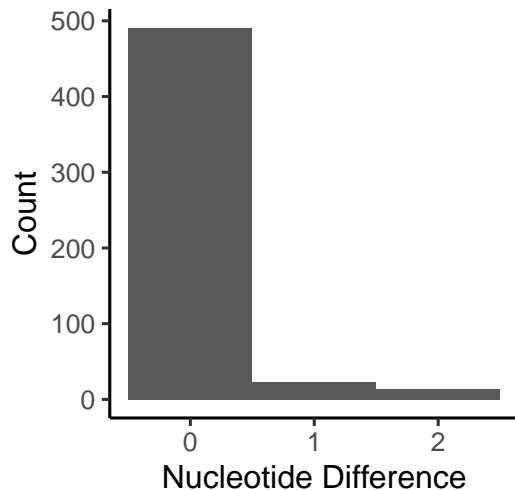
IGHV3-13*01

229 sequences assigned
222 (96.9%) exact matches, in which:
216 unique CDR3
6 unique J



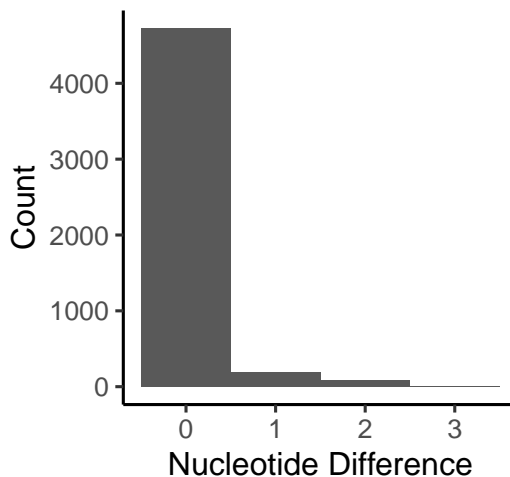
IGHV3-15*01_02

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



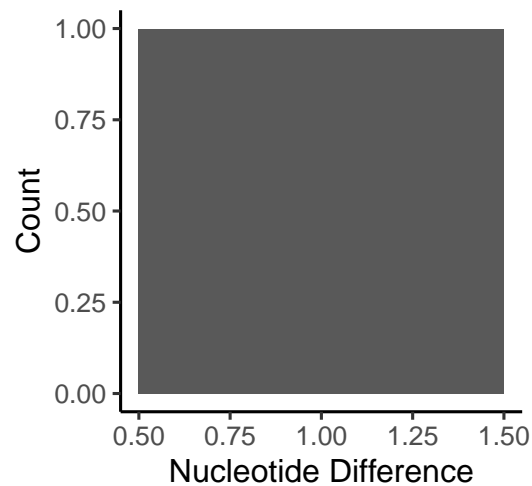
IGHV3-23*01_04

4998 sequences assigned
4724 (94.5%) exact matches, in which:
4553 unique CDR3
6 unique J



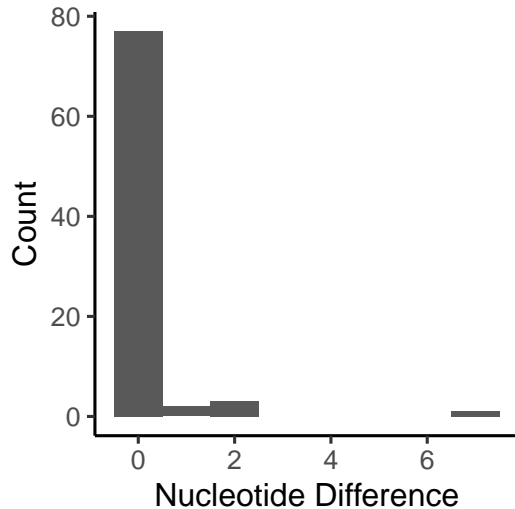
IGHV3-35*01

1 sequences assigned
No exact matches.



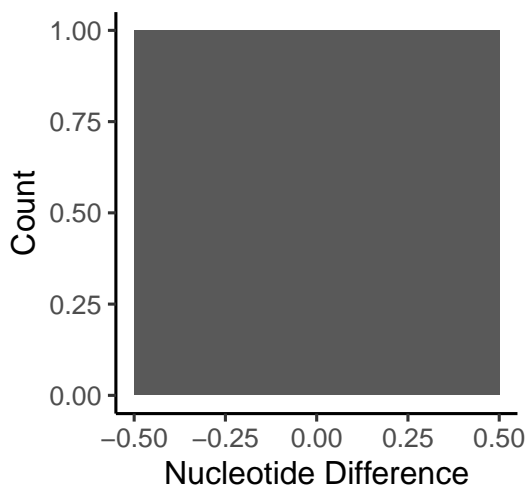
IGHV3-20*01_02

83 sequences assigned
77 (92.8%) exact matches, in which:
75 unique CDR3
5 unique J



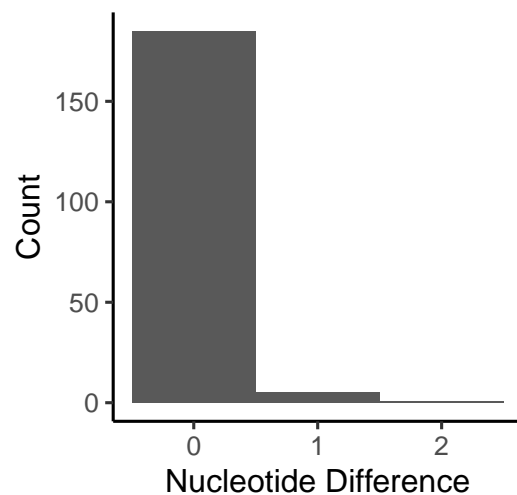
IGHV3-30-3*03

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



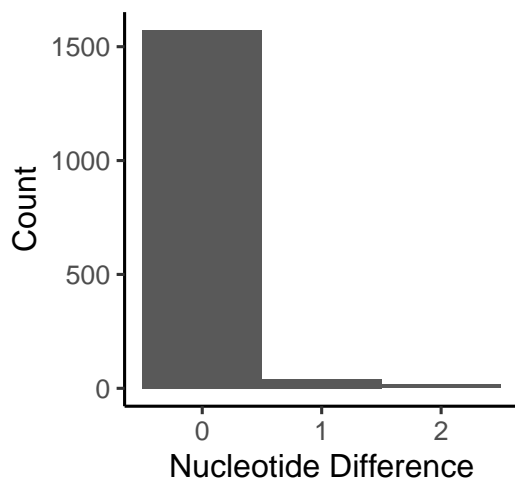
IGHV3-43*01

191 sequences assigned
185 (96.9%) exact matches, in which:
183 unique CDR3
6 unique J



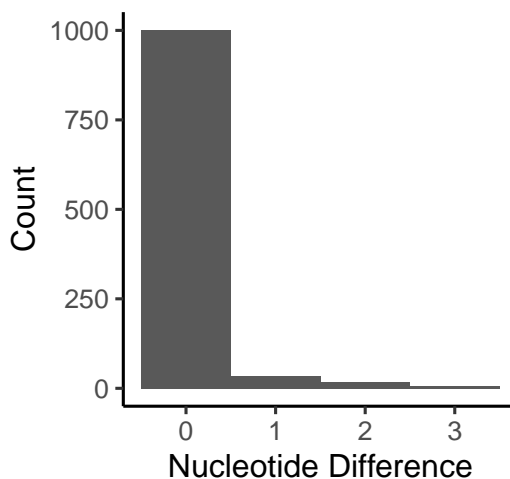
IGHV3-21*01_02

1631 sequences assigned
1573 (96.4%) exact matches, in which:
1501 unique CDR3
6 unique J



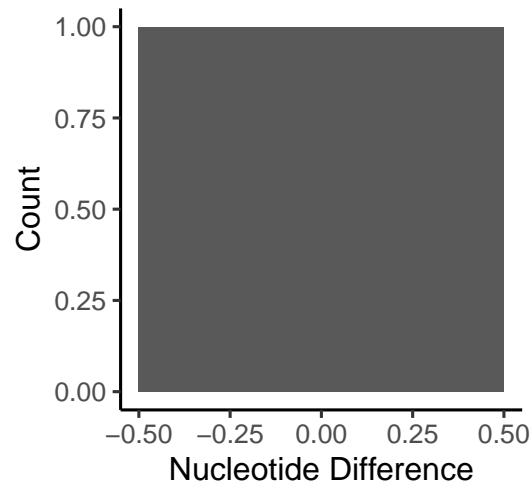
IGHV3-33*01

1059 sequences assigned
1001 (94.5%) exact matches, in which:
970 unique CDR3
6 unique J



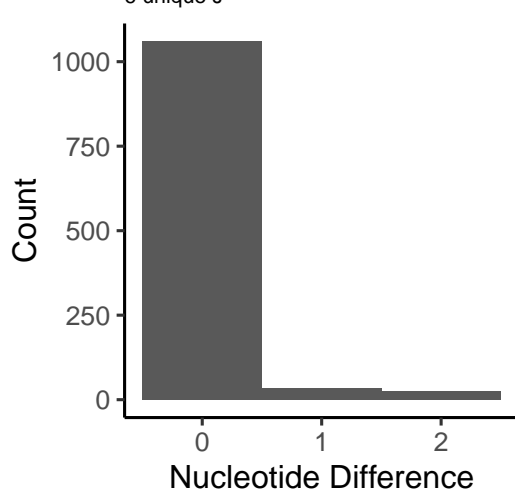
IGHV3-47*02

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



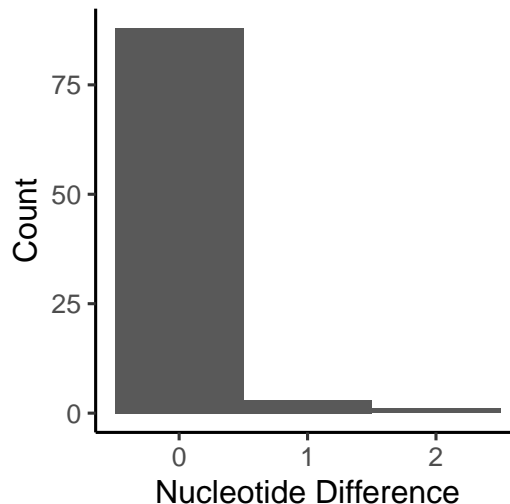
IGHV3-48*02

1120 sequences assigned
1060 (94.6%) exact matches, in which:
1021 unique CDR3
6 unique J



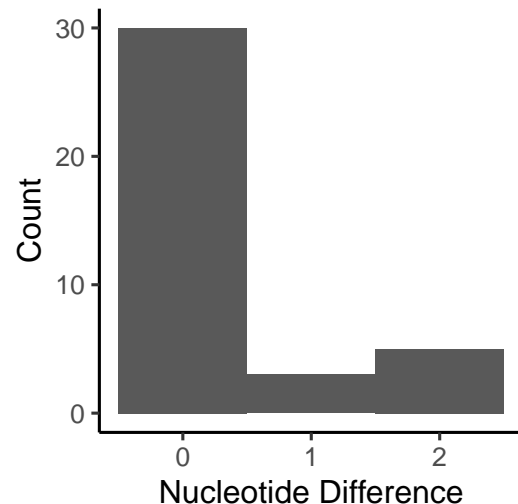
IGHV3-64*01

92 sequences assigned
88 (95.7%) exact matches, in which:
80 unique CDR3
6 unique J



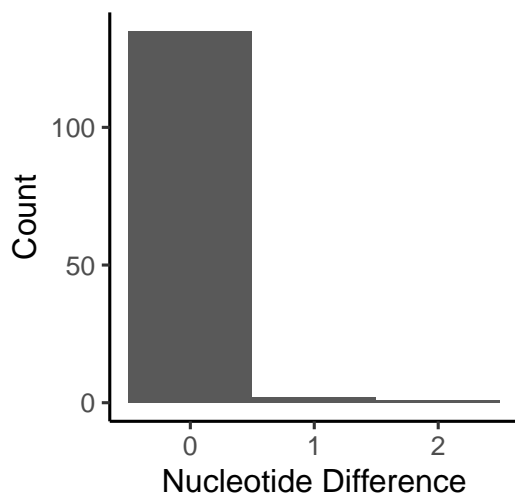
IGHV3-72*01

38 sequences assigned
30 (78.9%) exact matches, in which:
29 unique CDR3
4 unique J



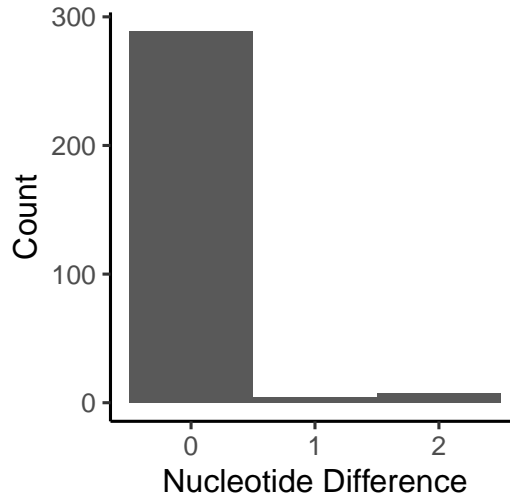
IGHV3-49*03_05

138 sequences assigned
135 (97.8%) exact matches, in which:
133 unique CDR3
5 unique J



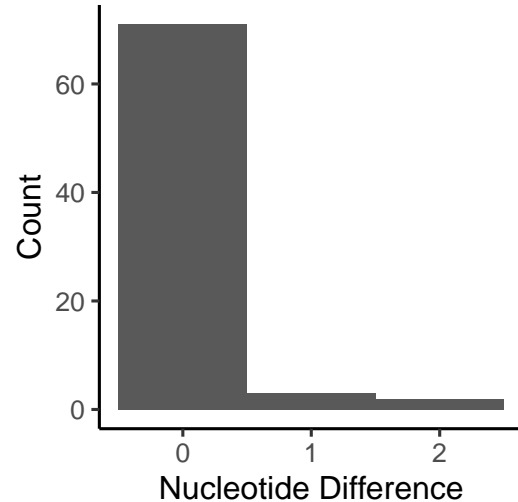
IGHV3-66*02

300 sequences assigned
289 (96.3%) exact matches, in which:
277 unique CDR3
6 unique J



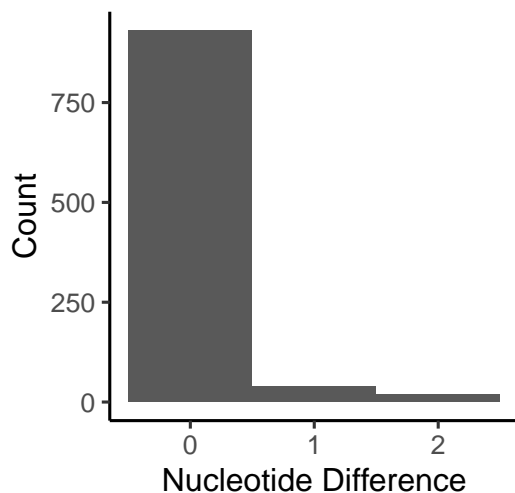
IGHV3-73*01_02

76 sequences assigned
71 (93.4%) exact matches, in which:
68 unique CDR3
4 unique J



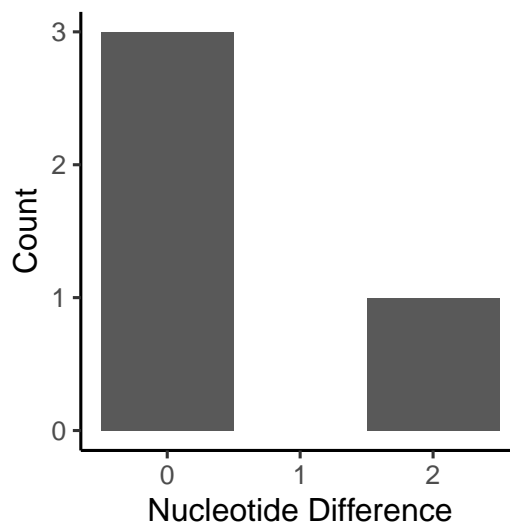
IGHV3-53*01_02

989 sequences assigned
931 (94.1%) exact matches, in which:
891 unique CDR3
6 unique J



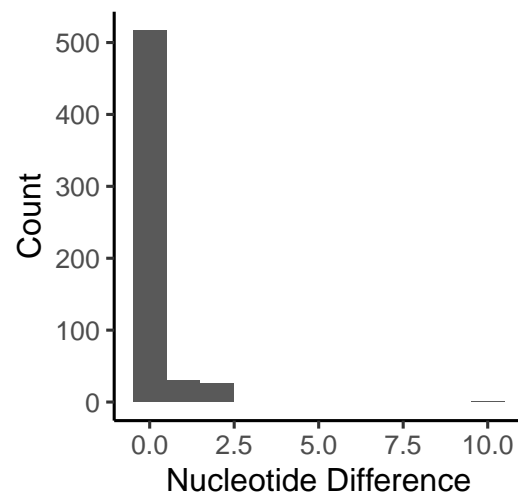
IGHV3-69-1*01

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



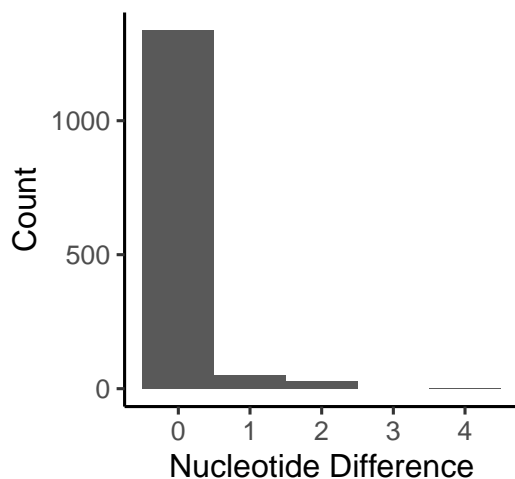
IGHV3-74*01_02

574 sequences assigned
517 (90.1%) exact matches, in which:
493 unique CDR3
6 unique J



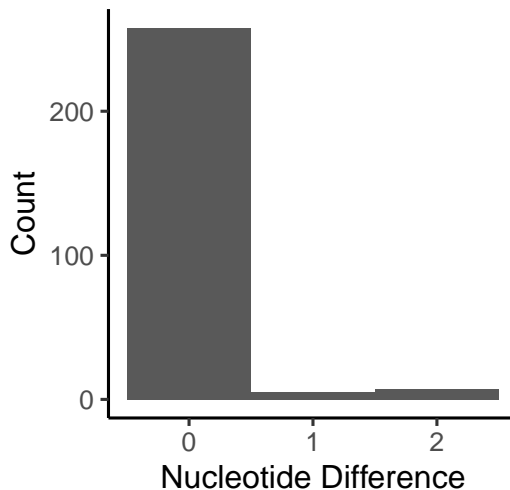
IGHV4-4*07

1415 sequences assigned
1337 (94.5%) exact matches, in which:
1303 unique CDR3
6 unique J



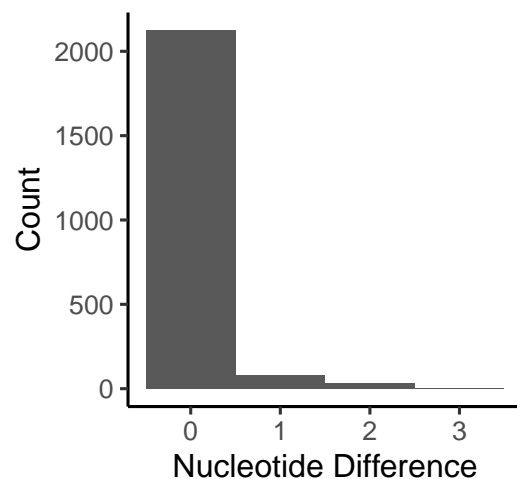
IGHV4-30-2*01

270 sequences assigned
258 (95.6%) exact matches, in which:
249 unique CDR3
6 unique J



IGHV4-39*02_C258G

2242 sequences assigned
2124 (94.7%) exact matches, in which:
2048 unique CDR3
6 unique J



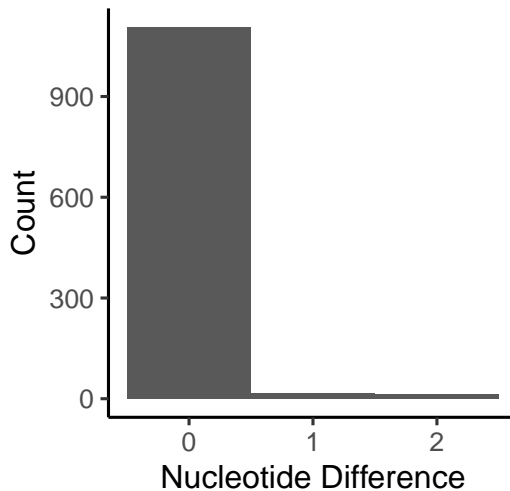
IGHV4-28*03

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



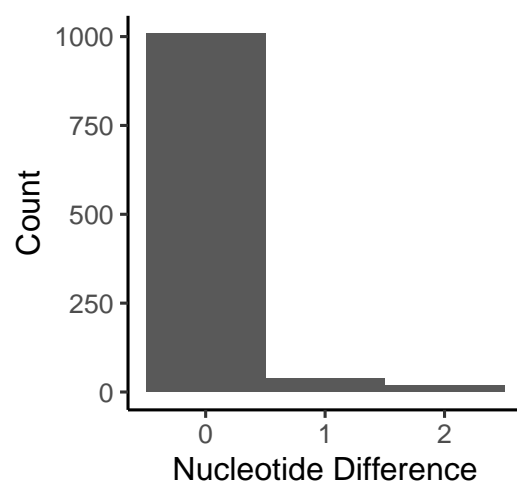
IGHV4-31*02

1134 sequences assigned
1107 (97.6%) exact matches, in which:
1087 unique CDR3
6 unique J



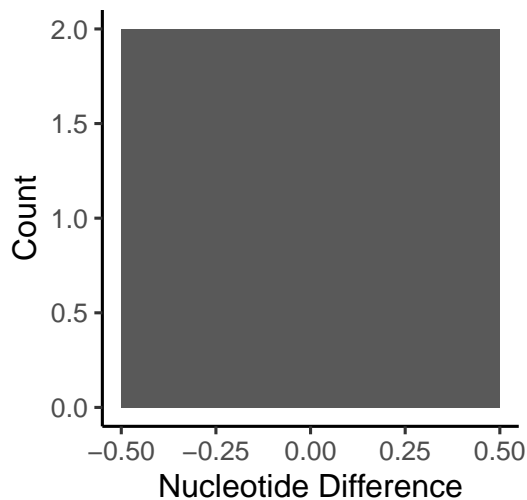
IGHV4-59*08

1064 sequences assigned
1008 (94.7%) exact matches, in which:
980 unique CDR3
6 unique J



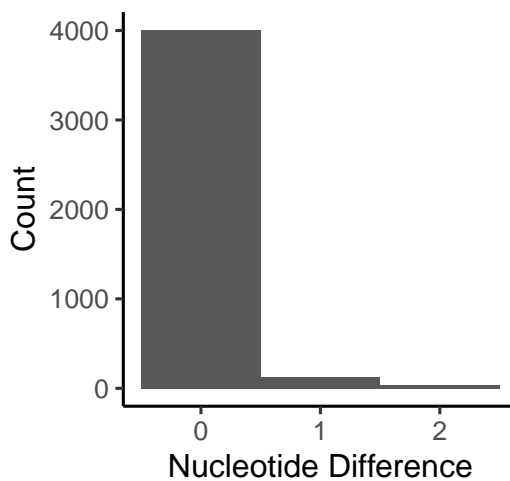
IGHV4-28*01_07

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



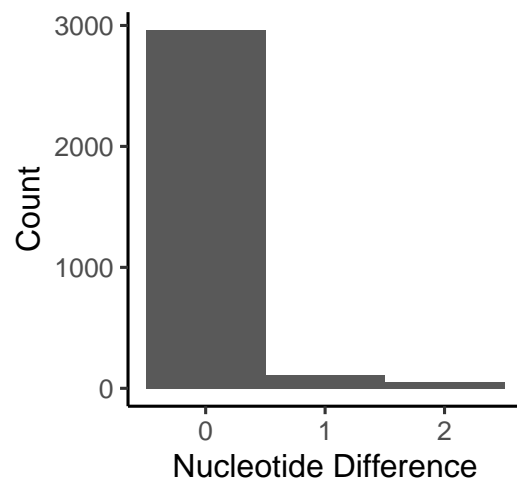
IGHV4-34*01_02

4169 sequences assigned
4005 (96.1%) exact matches, in which:
3884 unique CDR3
6 unique J



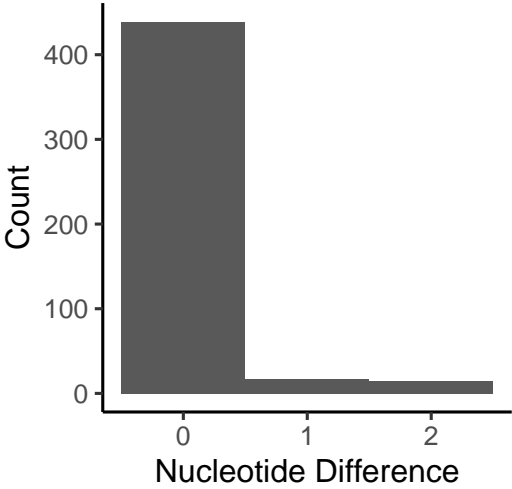
IGHV4-59*02_G88A

3125 sequences assigned
2962 (94.8%) exact matches, in which:
2869 unique CDR3
6 unique J



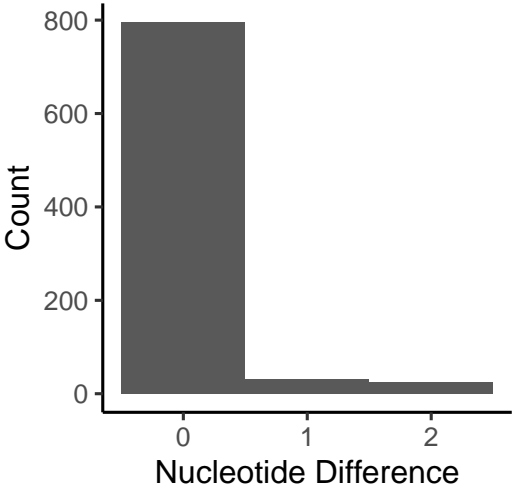
IGHV4–61*01

471 sequences assigned
439 (93.2%) exact matches, in which:
427 unique CDR3
5 unique J



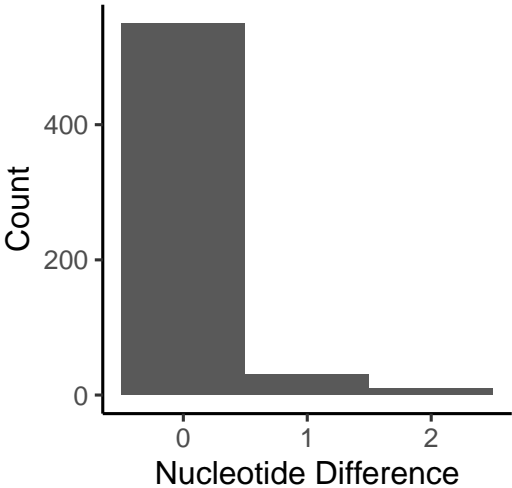
IGHV5–51*07_A128G

851 sequences assigned
796 (93.5%) exact matches, in which:
796 unique CDR3
6 unique J



IGHV6–1*01_02

589 sequences assigned
550 (93.4%) exact matches, in which:
547 unique CDR3
6 unique J





Warning – no inferred sequences found.