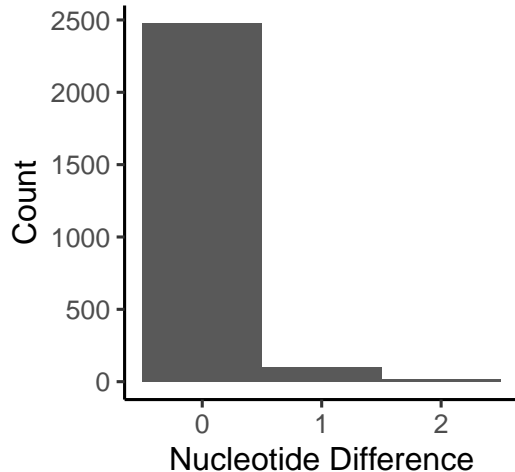


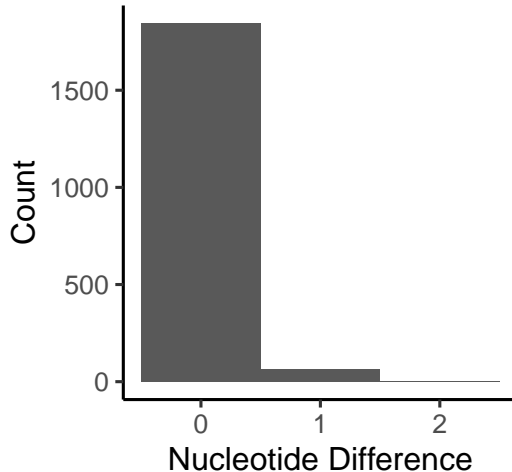
IGHV1-2*02

2593 sequences assigned
2476 (95.5%) exact matches, in which:
2475 unique CDR3
6 unique J



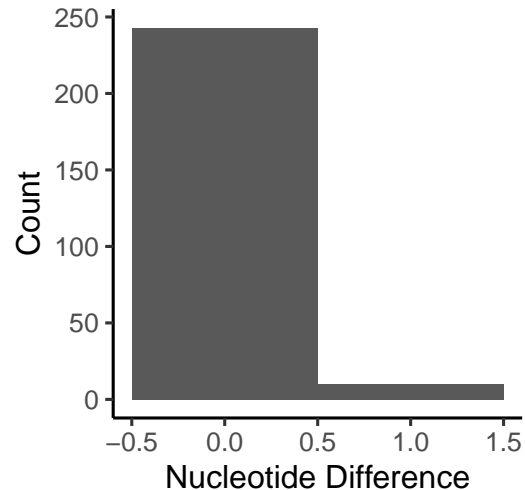
IGHV1-18*01

1913 sequences assigned
1844 (96.4%) exact matches, in which:
1843 unique CDR3
6 unique J



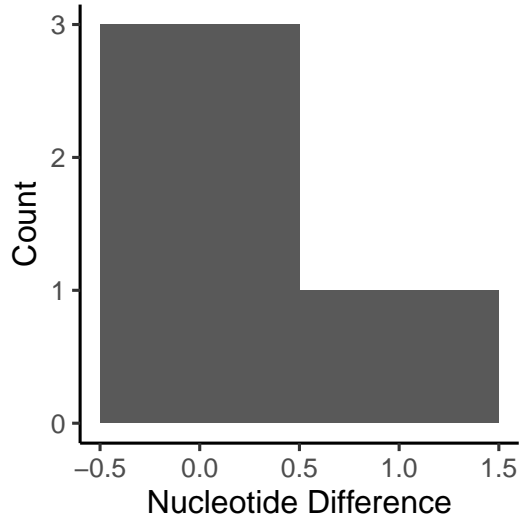
IGHV1-46*01

253 sequences assigned
243 (96%) exact matches, in which:
243 unique CDR3
6 unique J



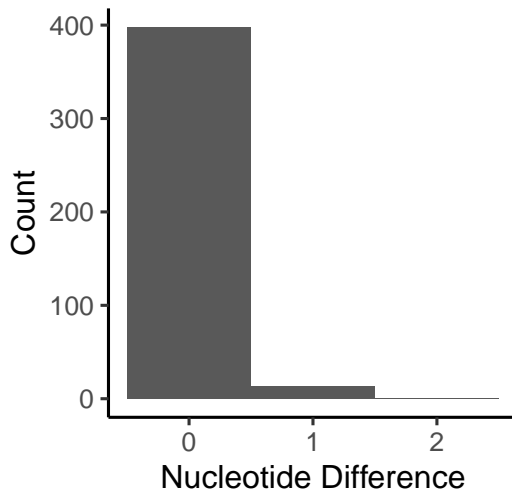
IGHV1-3*02

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



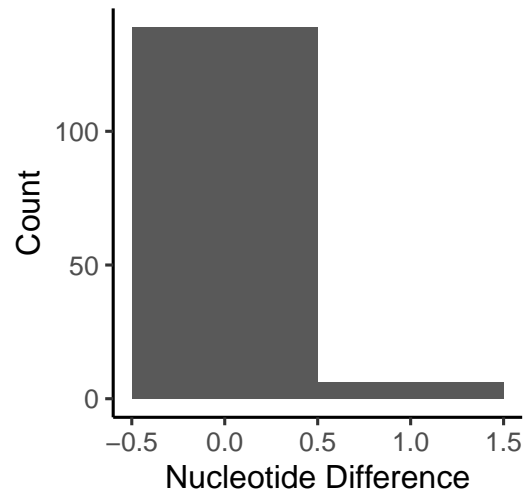
IGHV1-24*01

412 sequences assigned
398 (96.6%) exact matches, in which:
398 unique CDR3
6 unique J



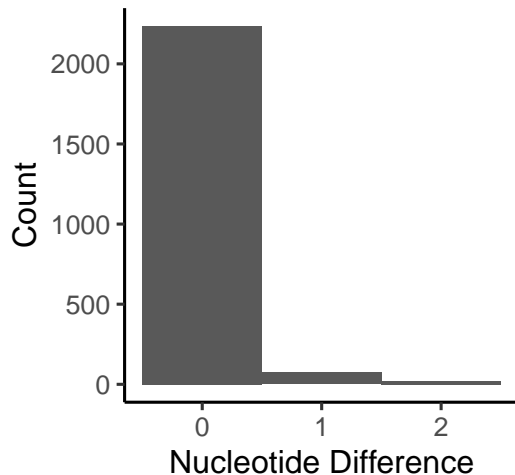
IGHV1-46*03

145 sequences assigned
139 (95.9%) exact matches, in which:
139 unique CDR3
5 unique J



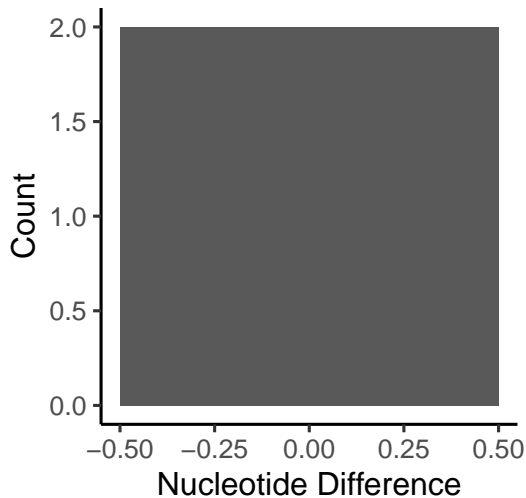
IGHV1-8*01

2329 sequences assigned
2236 (96%) exact matches, in which:
2232 unique CDR3
6 unique J



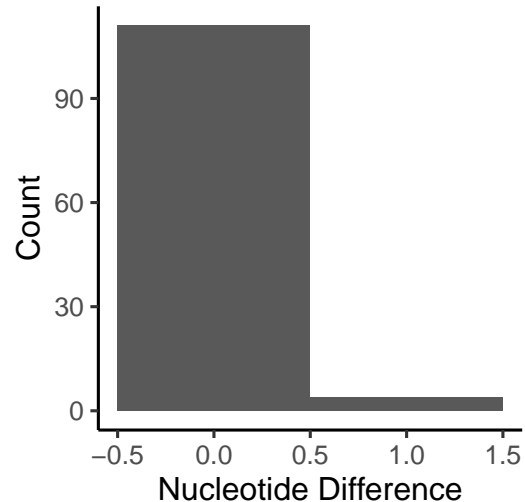
IGHV1-45*02

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



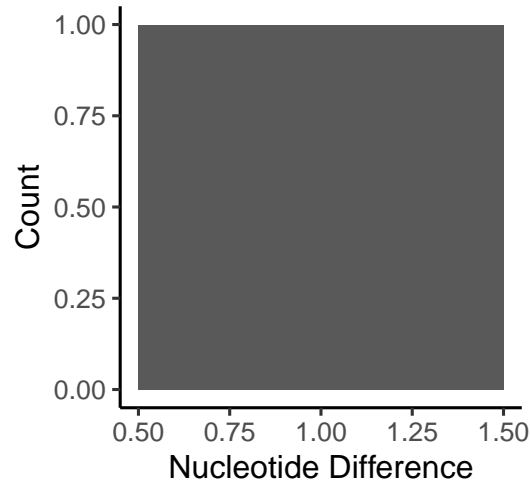
IGHV1-58*01_03

115 sequences assigned
111 (96.5%) exact matches, in which:
111 unique CDR3
5 unique J



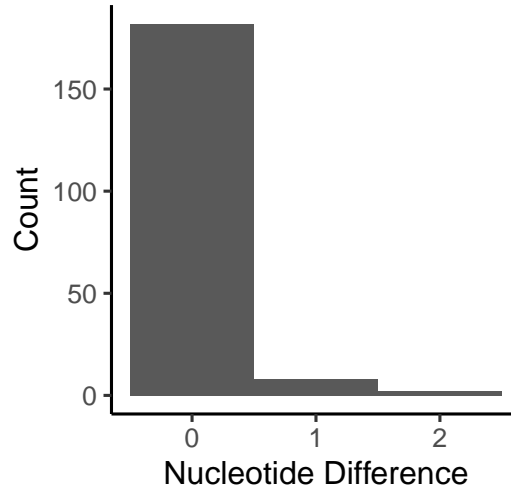
IGHV1-68*01

1 sequences assigned
No exact matches.



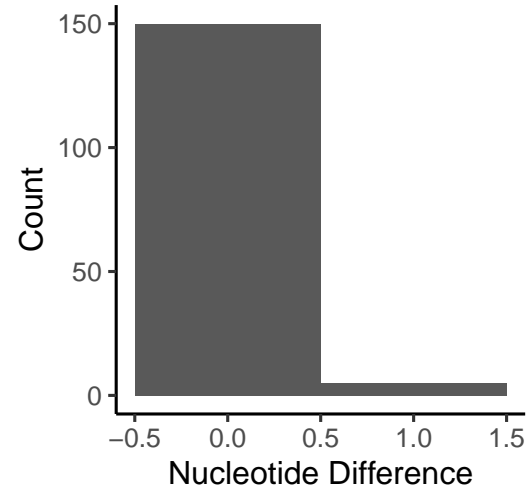
IGHV2-5*01

192 sequences assigned
182 (94.8%) exact matches, in which:
182 unique CDR3
6 unique J



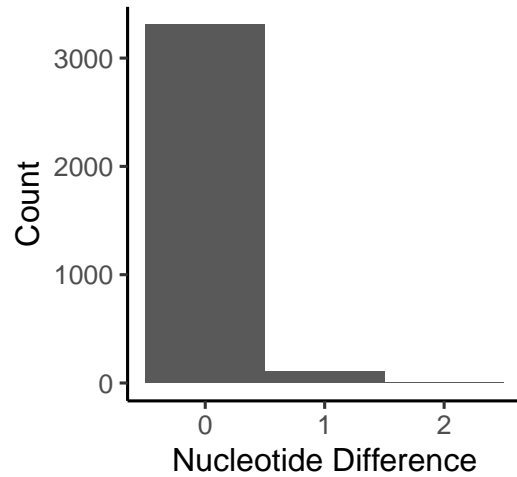
IGHV2-70*01

155 sequences assigned
150 (96.8%) exact matches, in which:
149 unique CDR3
5 unique J



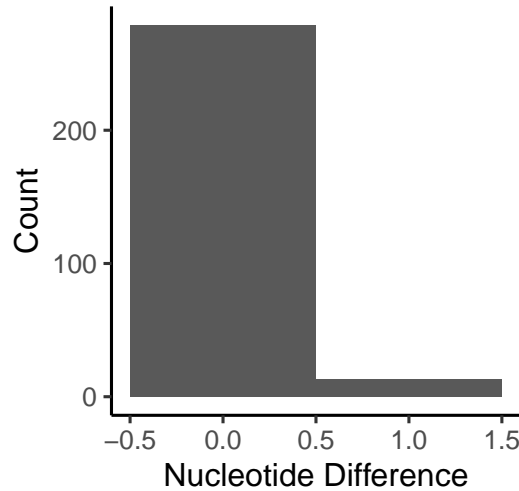
IGHV1-69*01_12_13

3422 sequences assigned
3308 (96.7%) exact matches, in which:
3307 unique CDR3
6 unique J



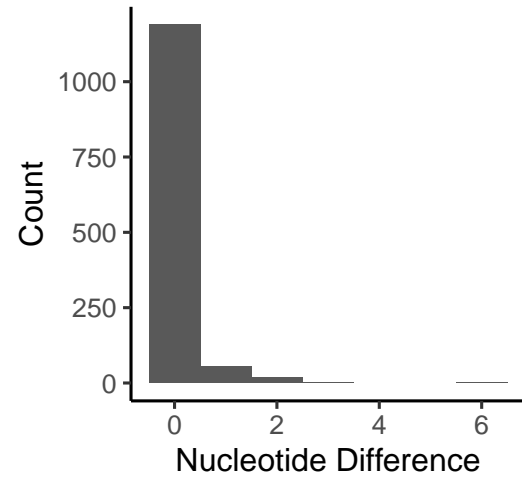
IGHV2-5*02

292 sequences assigned
279 (95.5%) exact matches, in which:
279 unique CDR3
6 unique J



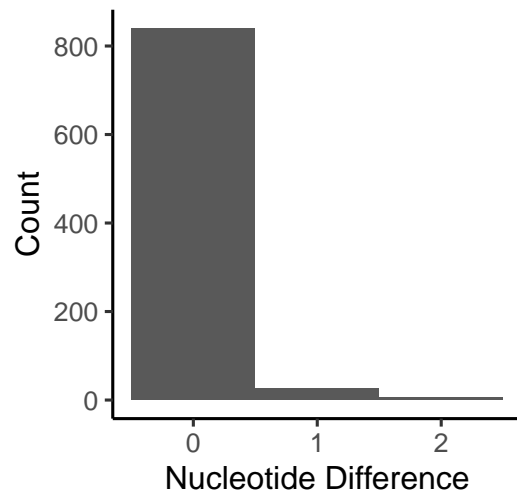
IGHV3-7*01

1263 sequences assigned
1189 (94.1%) exact matches, in which:
1168 unique CDR3
6 unique J



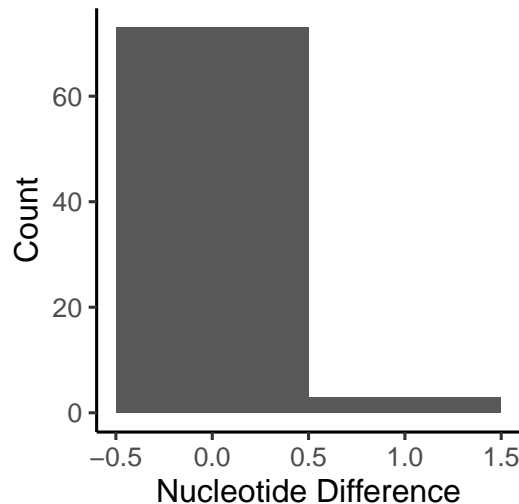
IGHV1-69*06_14

872 sequences assigned
840 (96.3%) exact matches, in which:
840 unique CDR3
6 unique J



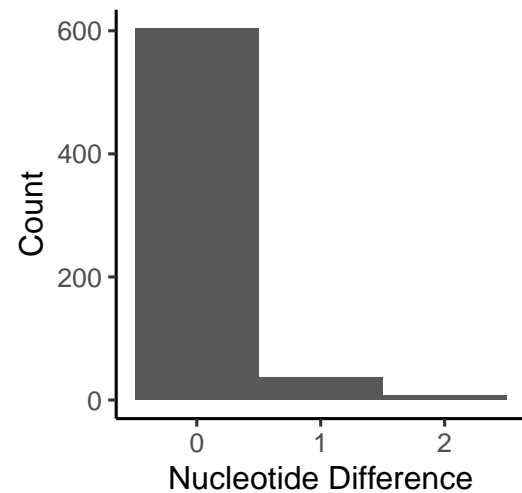
IGHV2-26*01

76 sequences assigned
73 (96.1%) exact matches, in which:
73 unique CDR3
5 unique J



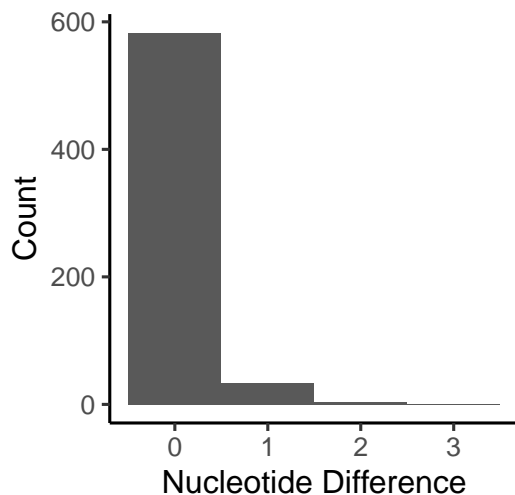
IGHV3-9*01

647 sequences assigned
604 (93.4%) exact matches, in which:
597 unique CDR3
6 unique J



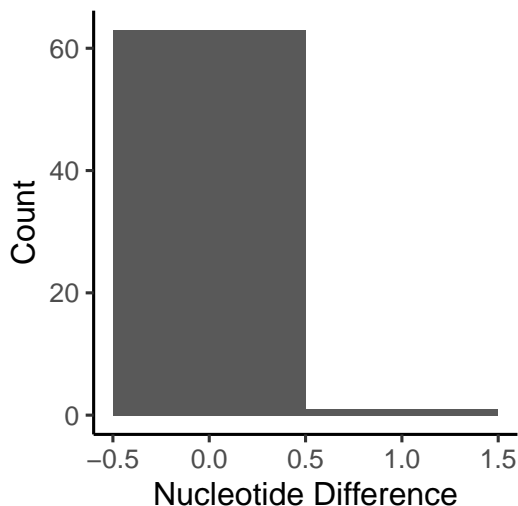
IGHV3-11*01

622 sequences assigned
583 (93.7%) exact matches, in which:
579 unique CDR3
6 unique J



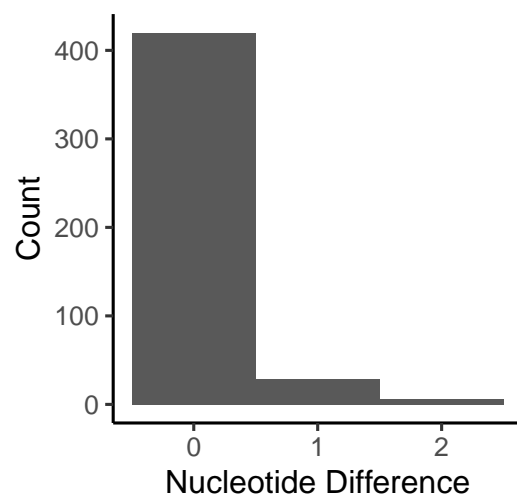
IGHV3-20*01_02

64 sequences assigned
63 (98.4%) exact matches, in which:
63 unique CDR3
6 unique J



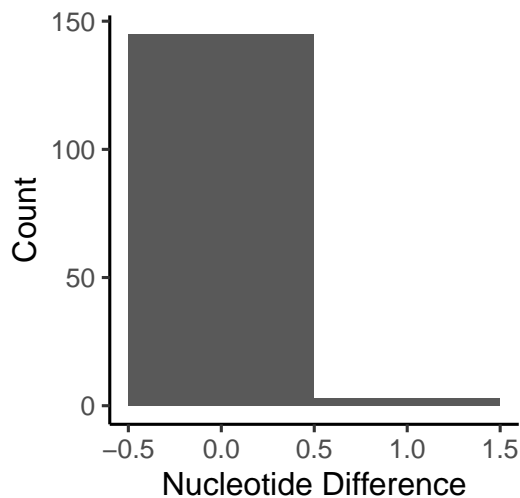
IGHV3-30*03

455 sequences assigned
420 (92.3%) exact matches, in which:
419 unique CDR3
6 unique J



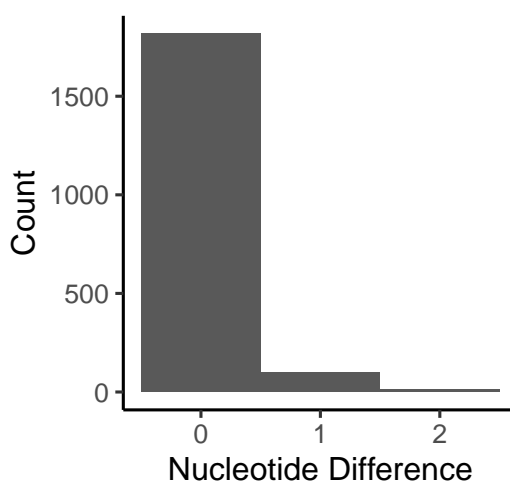
IGHV3-13*01

148 sequences assigned
145 (98%) exact matches, in which:
144 unique CDR3
5 unique J



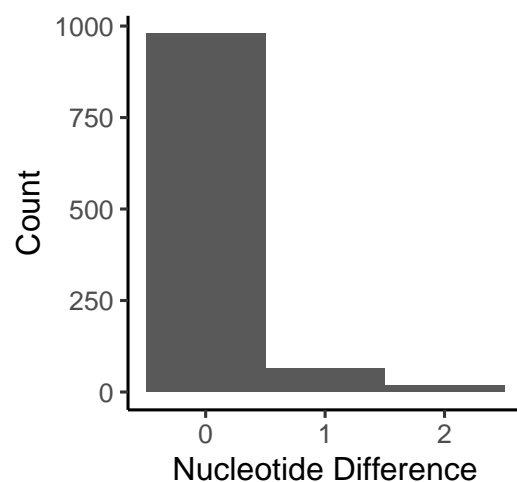
IGHV3-21*01_02

1933 sequences assigned
1817 (94%) exact matches, in which:
1800 unique CDR3
6 unique J



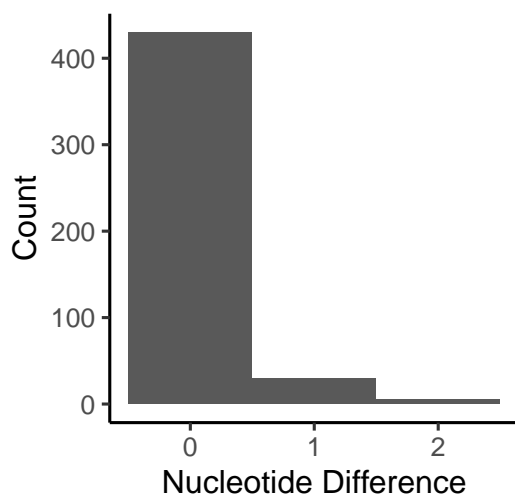
IGHV3-33*01

1062 sequences assigned
979 (92.2%) exact matches, in which:
976 unique CDR3
6 unique J



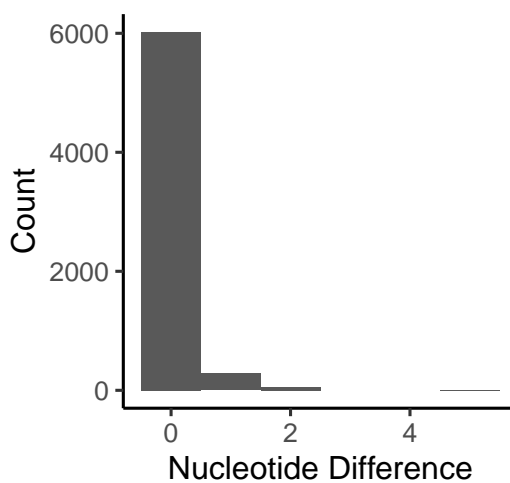
IGHV3-15*01_02

465 sequences assigned
430 (92.5%) exact matches, in which:
428 unique CDR3
6 unique J



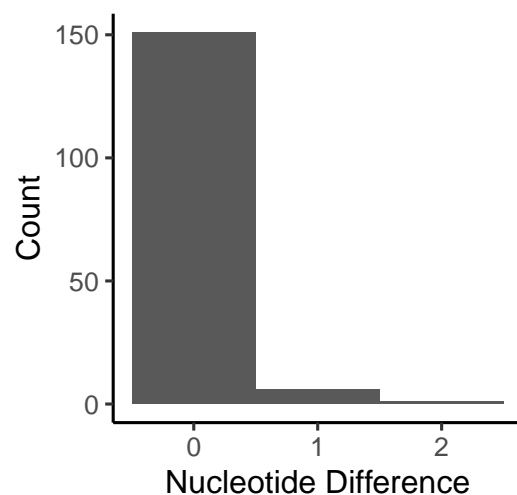
IGHV3-23*01_04

6358 sequences assigned
6021 (94.7%) exact matches, in which:
5982 unique CDR3
6 unique J



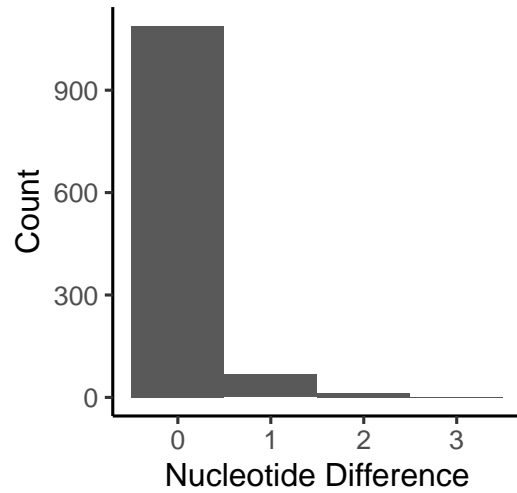
IGHV3-43*01

158 sequences assigned
151 (95.6%) exact matches, in which:
151 unique CDR3
6 unique J



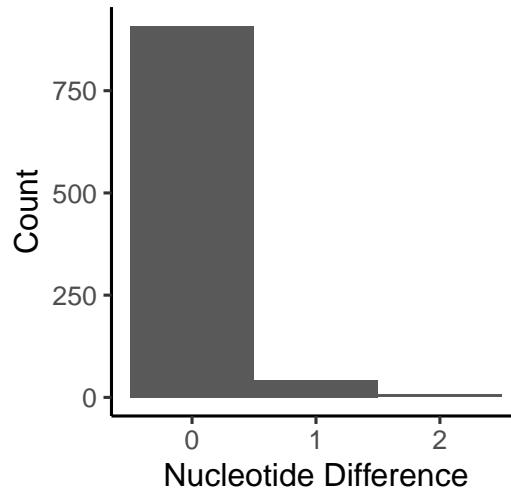
IGHV3-48*02

1171 sequences assigned
1089 (93%) exact matches, in which:
1071 unique CDR3
6 unique J



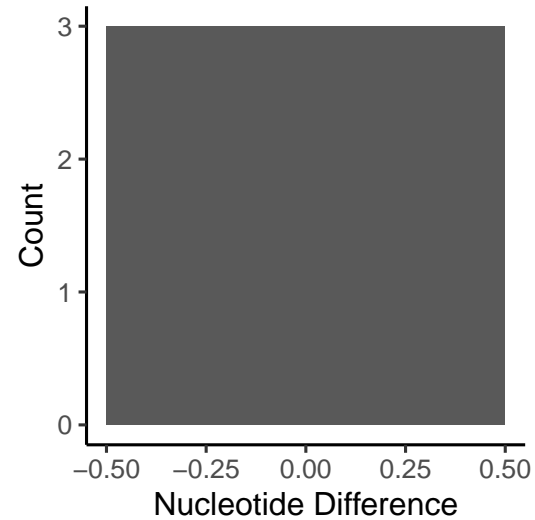
IGHV3-53*01_02

958 sequences assigned
909 (94.9%) exact matches, in which:
900 unique CDR3
6 unique J



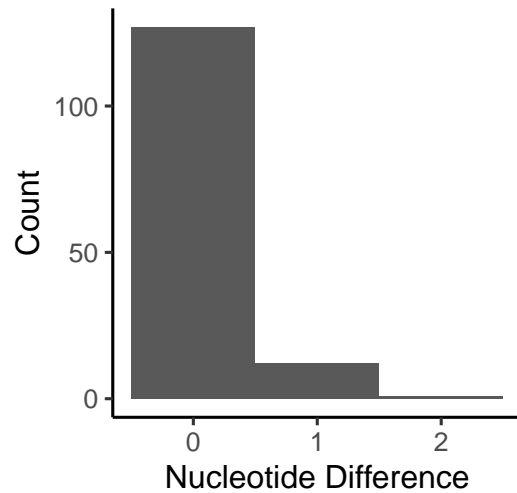
IGHV3-69-1*01

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



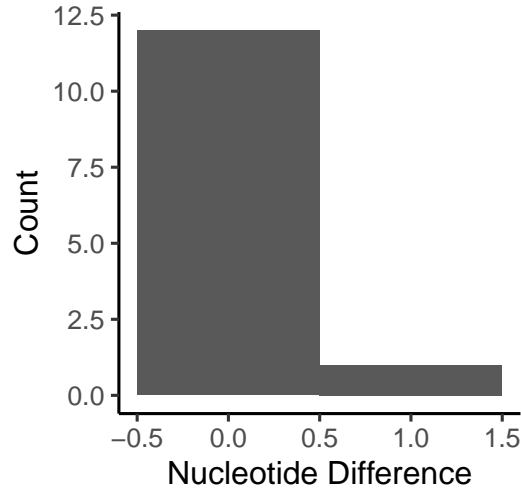
IGHV3-49*03_05

140 sequences assigned
127 (90.7%) exact matches, in which:
127 unique CDR3
6 unique J



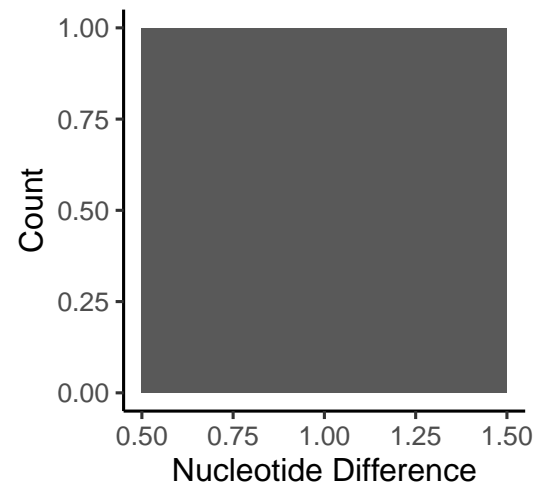
IGHV3-64*02_07

13 sequences assigned
12 (92.3%) exact matches, in which:
12 unique CDR3
3 unique J



IGHV3-71*01_04

1 sequences assigned
No exact matches.



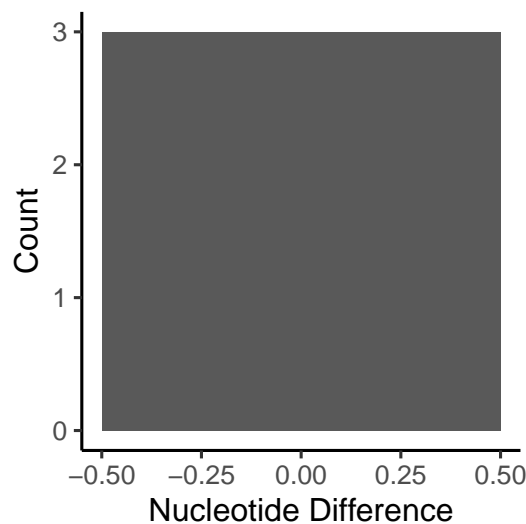
IGHV3-52*01_03

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



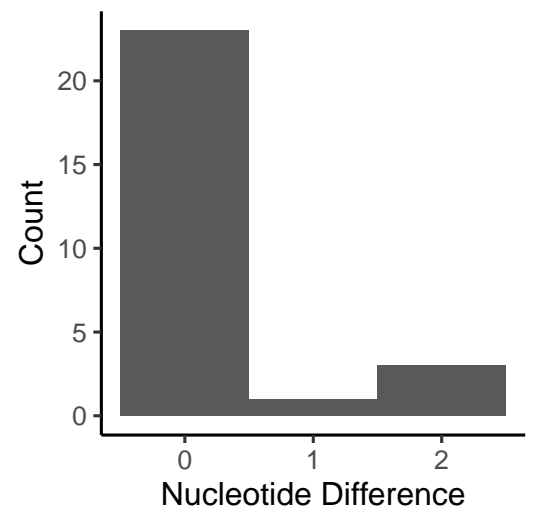
IGHV3-66*03

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



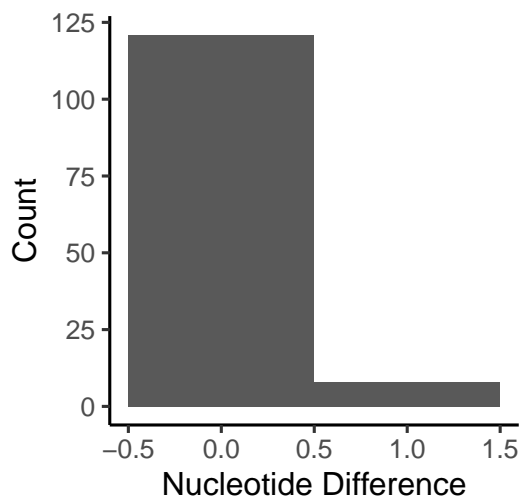
IGHV3-72*01

27 sequences assigned
23 (85.2%) exact matches, in which:
23 unique CDR3
4 unique J



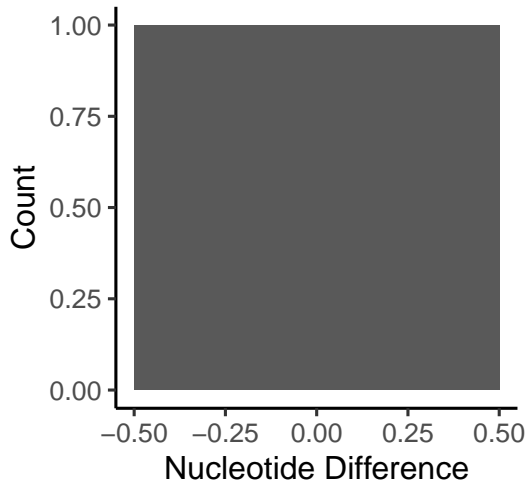
IGHV3-73*01_02

129 sequences assigned
121 (93.8%) exact matches, in which:
120 unique CDR3
6 unique J



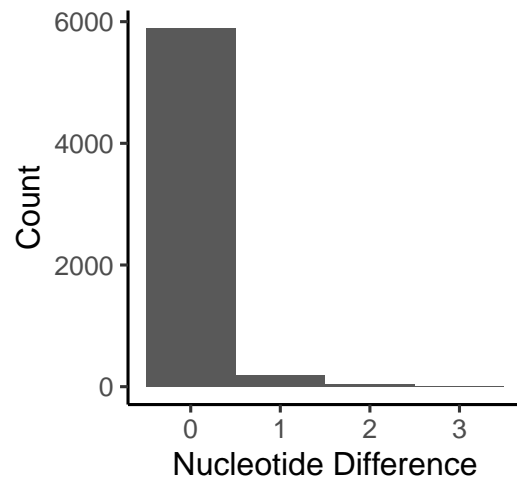
IGHV4-28*03

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



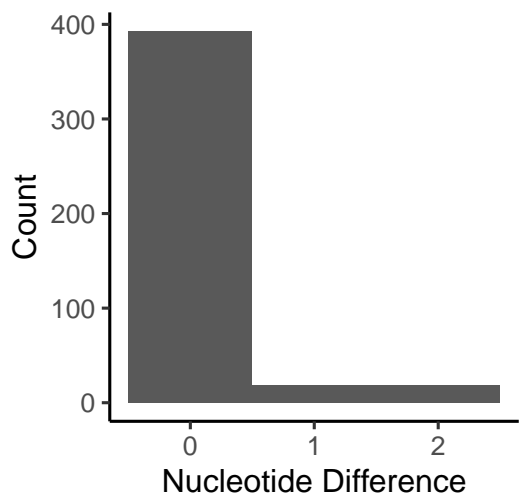
IGHV4-34*01_02

6119 sequences assigned
5889 (96.2%) exact matches, in which:
5840 unique CDR3
6 unique J



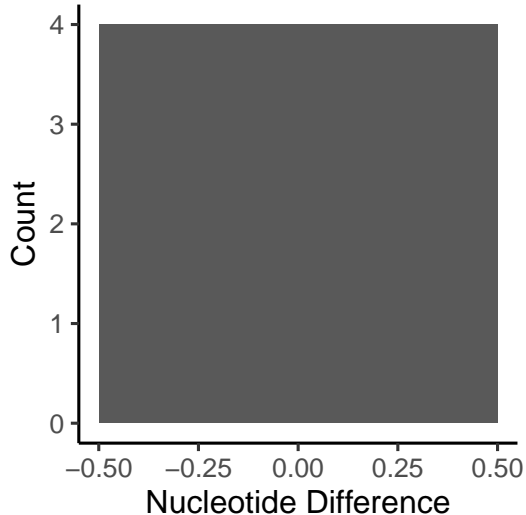
IGHV3-74*01_02

430 sequences assigned
393 (91.4%) exact matches, in which:
385 unique CDR3
6 unique J



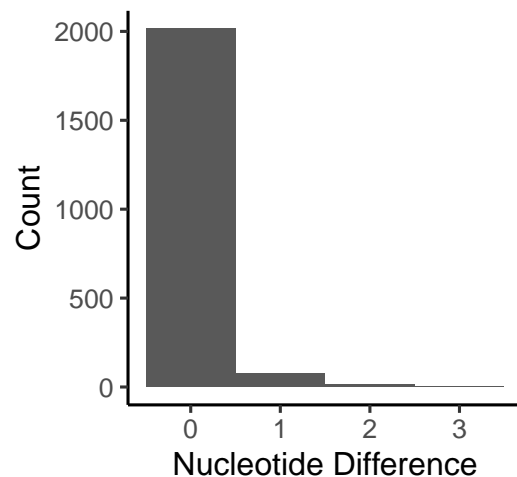
IGHV4-28*01_07

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



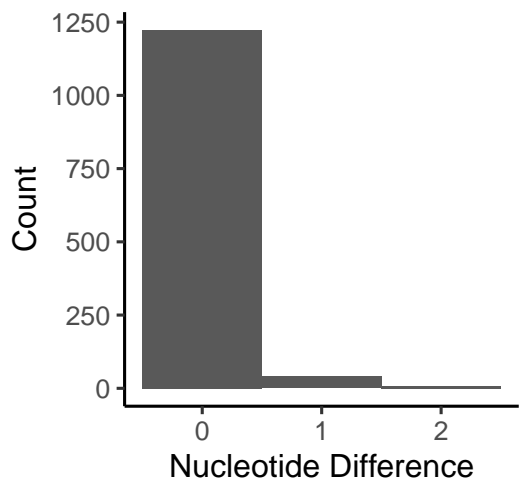
IGHV4-39*02_C258G

2105 sequences assigned
2015 (95.7%) exact matches, in which:
1996 unique CDR3
6 unique J



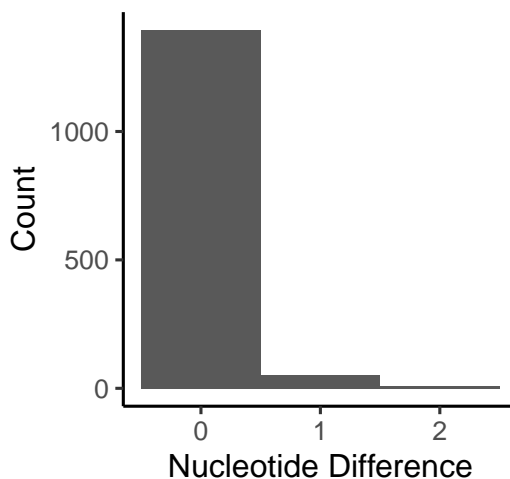
IGHV4-4*07

1271 sequences assigned
1223 (96.2%) exact matches, in which:
1212 unique CDR3
6 unique J



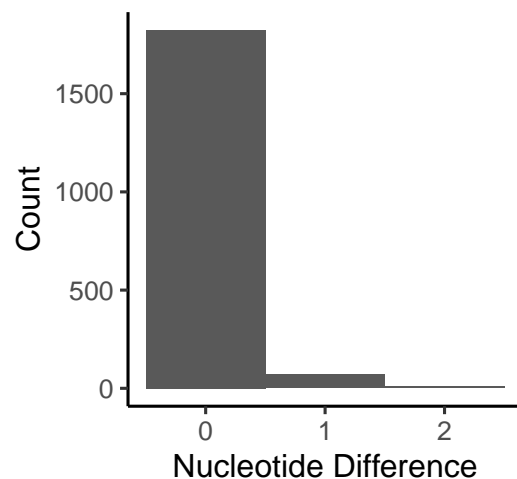
IGHV4-31*02

1455 sequences assigned
1395 (95.9%) exact matches, in which:
1388 unique CDR3
6 unique J



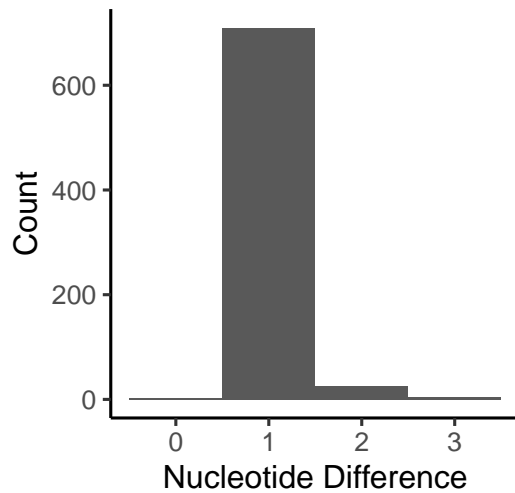
IGHV4-59*01_07

1905 sequences assigned
1824 (95.7%) exact matches, in which:
1805 unique CDR3
6 unique J



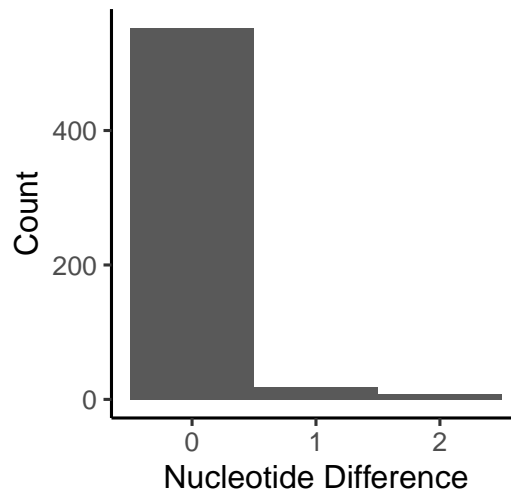
IGHV4–59*12

742 sequences assigned
2 (0.3%) exact matches, in which:
2 unique CDR3
2 unique J



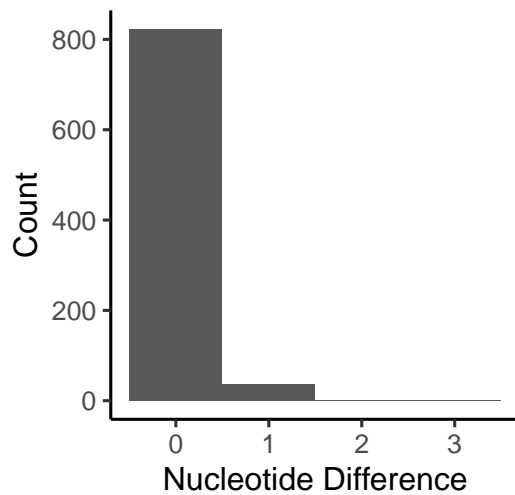
IGHV6–1*01_02

580 sequences assigned
553 (95.3%) exact matches, in which:
552 unique CDR3
6 unique J



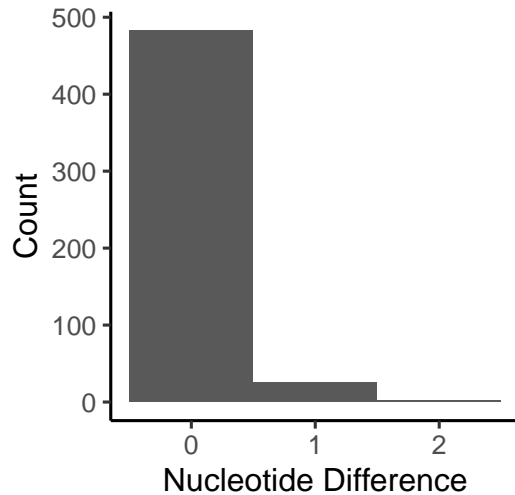
IGHV4–61*01

863 sequences assigned
823 (95.4%) exact matches, in which:
820 unique CDR3
6 unique J



IGHV5–51*07_A128G

510 sequences assigned
483 (94.7%) exact matches, in which:
482 unique CDR3
6 unique J





Warning – no inferred sequences found.