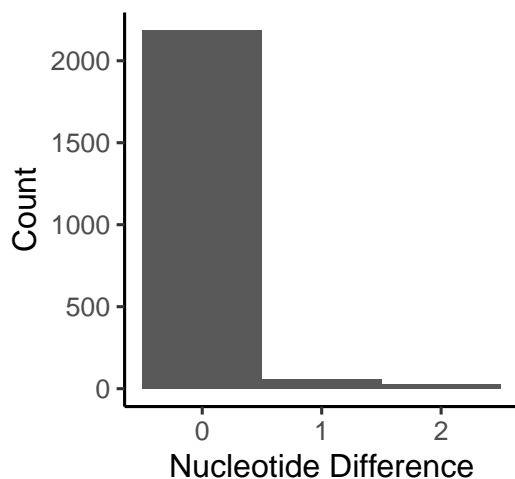


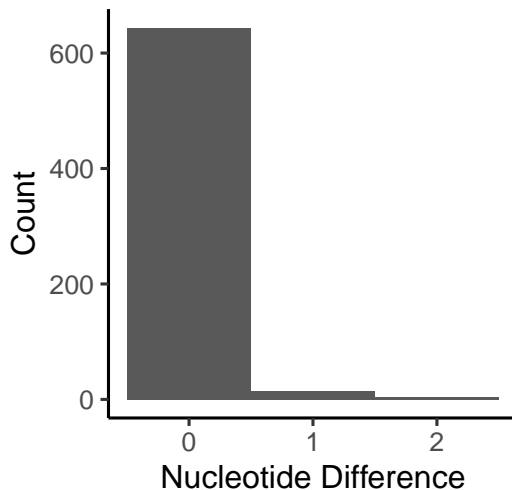
IGHV1-2*02

2272 sequences assigned
2185 (96.2%) exact matches, in which:
2178 unique CDR3
6 unique J



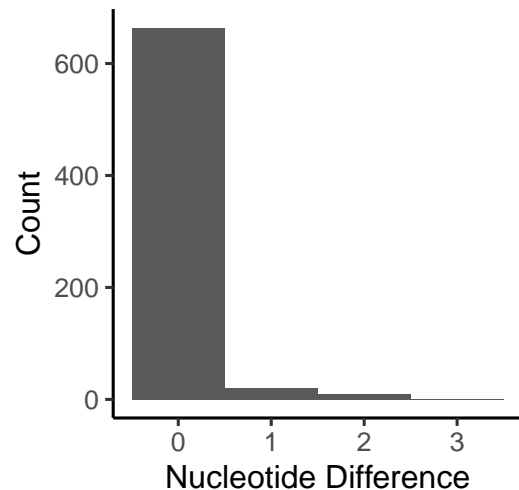
IGHV1-24*01

663 sequences assigned
644 (97.1%) exact matches, in which:
644 unique CDR3
6 unique J



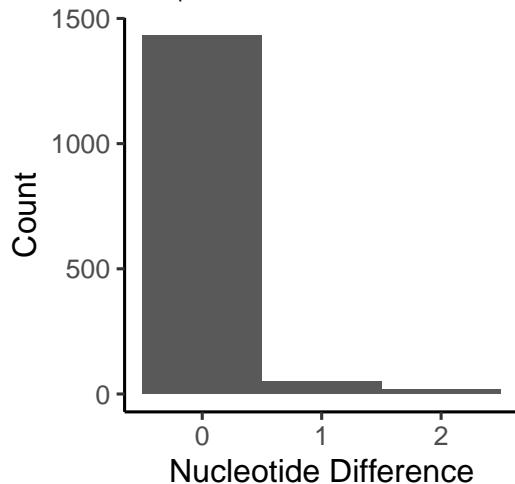
IGHV1-46*01

694 sequences assigned
664 (95.7%) exact matches, in which:
663 unique CDR3
6 unique J



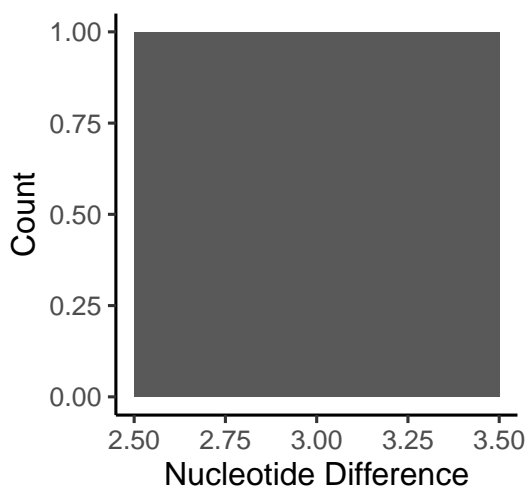
IGHV1-8*01

1498 sequences assigned
1431 (95.5%) exact matches, in which:
1428 unique CDR3
6 unique J



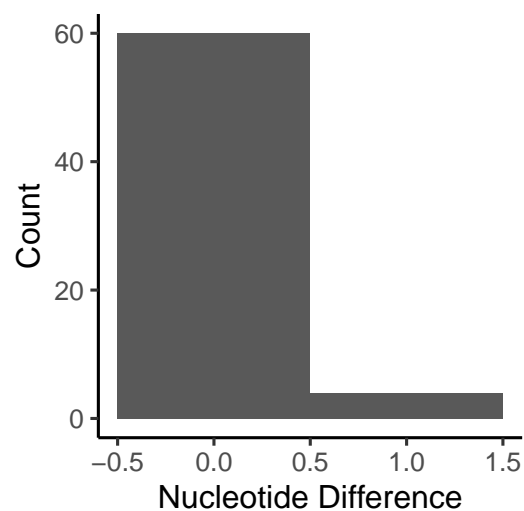
IGHV1-38-4*01

1 sequences assigned
No exact matches.



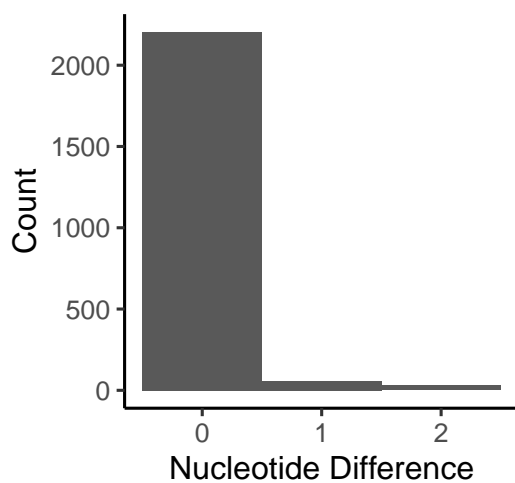
IGHV1-58*02

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



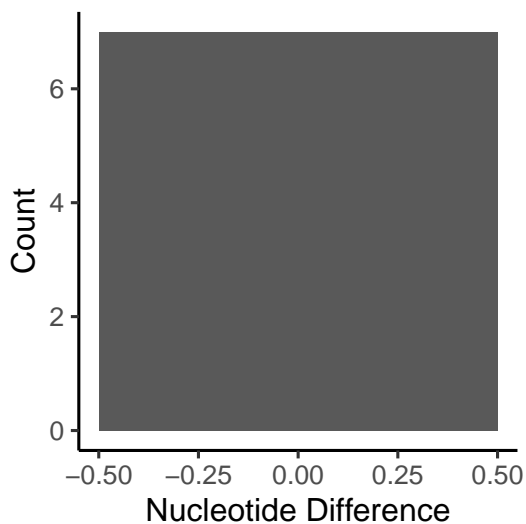
IGHV1-18*01

2292 sequences assigned
2204 (96.2%) exact matches, in which:
2204 unique CDR3
6 unique J



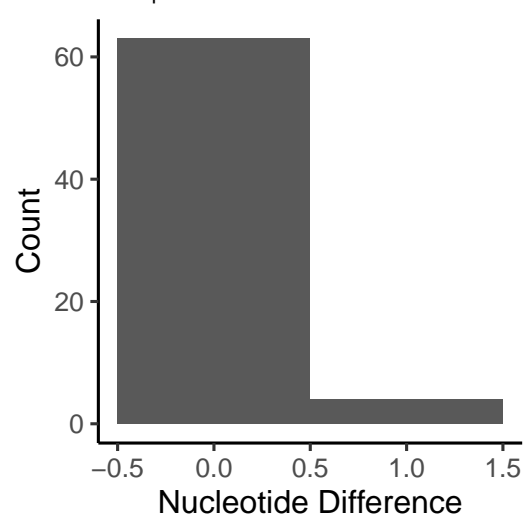
IGHV1-45*02

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



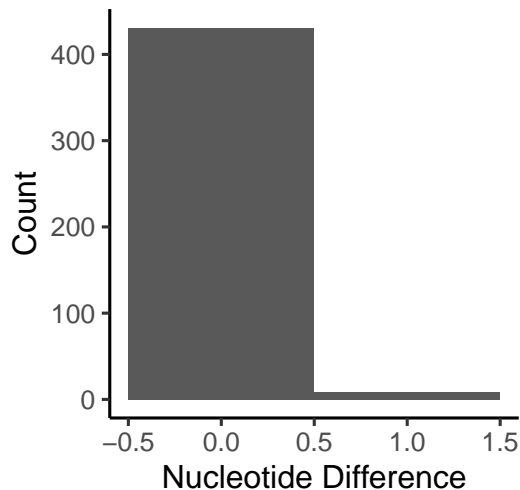
IGHV1-58*01_03

67 sequences assigned
63 (94%) exact matches, in which:
63 unique CDR3
6 unique J



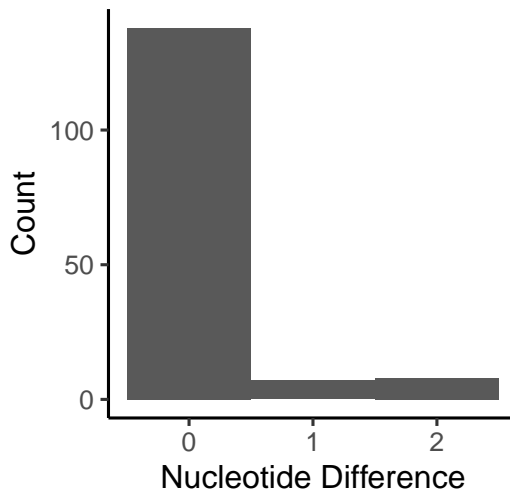
IGHV1–69*02

440 sequences assigned
431 (98%) exact matches, in which:
431 unique CDR3
6 unique J



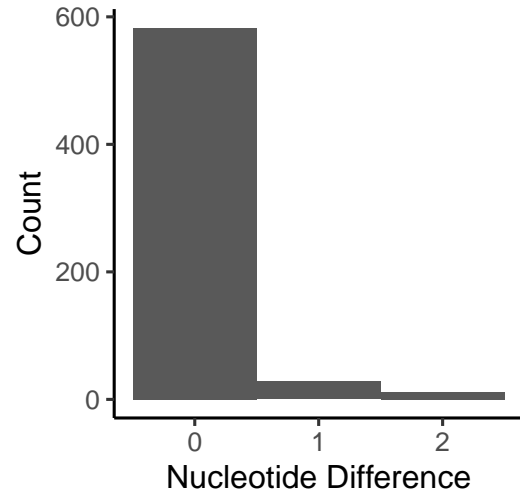
IGHV2–26*01

153 sequences assigned
138 (90.2%) exact matches, in which:
138 unique CDR3
5 unique J



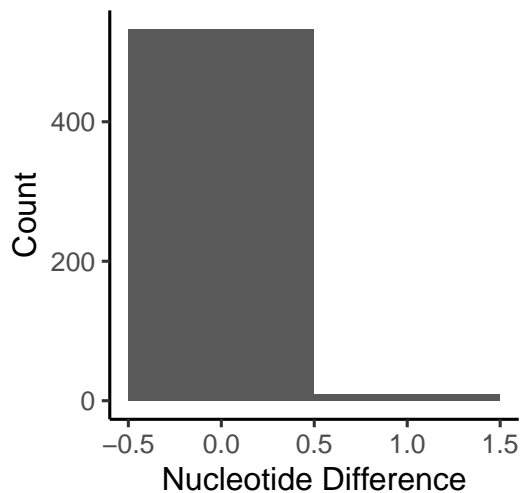
IGHV3–9*01

623 sequences assigned
583 (93.6%) exact matches, in which:
574 unique CDR3
6 unique J



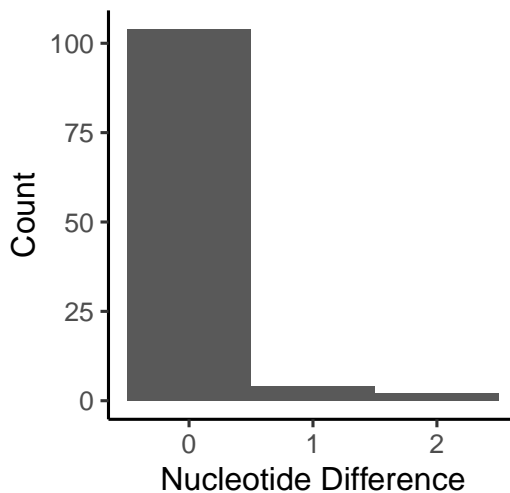
IGHV1–69*17

542 sequences assigned
533 (98.3%) exact matches, in which:
532 unique CDR3
6 unique J



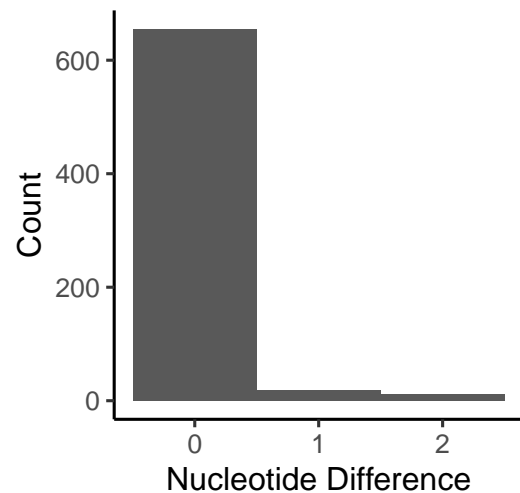
IGHV2–70*01

110 sequences assigned
104 (94.5%) exact matches, in which:
104 unique CDR3
5 unique J



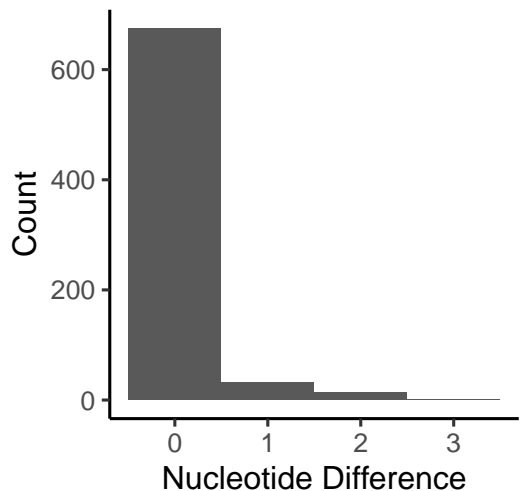
IGHV3–11*01

684 sequences assigned
655 (95.8%) exact matches, in which:
634 unique CDR3
6 unique J



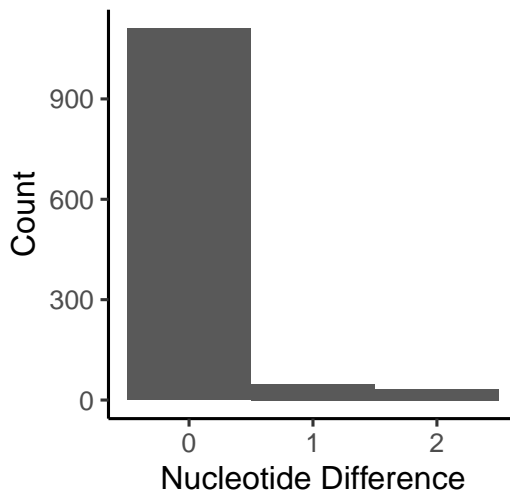
IGHV2–5*01

722 sequences assigned
675 (93.5%) exact matches, in which:
674 unique CDR3
6 unique J



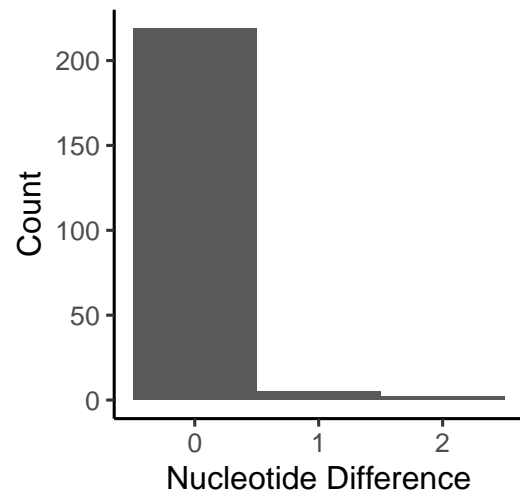
IGHV3–7*01

1192 sequences assigned
1111 (93.2%) exact matches, in which:
1077 unique CDR3
6 unique J



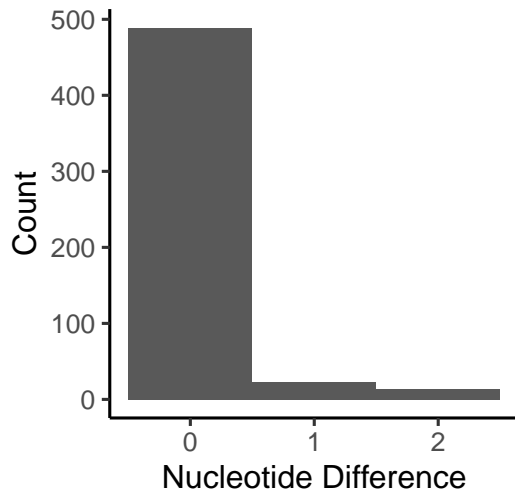
IGHV3–13*01

226 sequences assigned
219 (96.9%) exact matches, in which:
214 unique CDR3
6 unique J



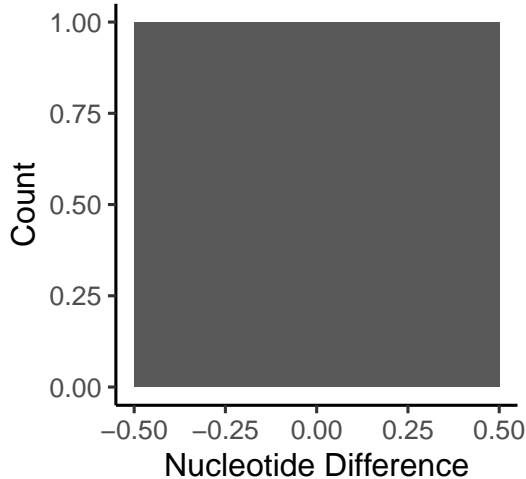
IGHV3-15*01_02

526 sequences assigned
489 (93%) exact matches, in which:
474 unique CDR3
6 unique J



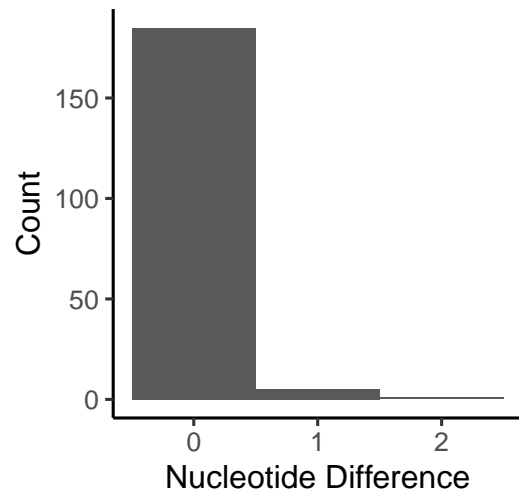
IGHV3-30-3*03

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



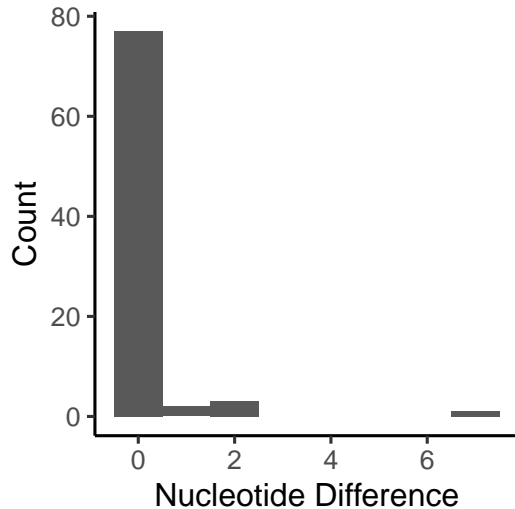
IGHV3-43*01

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



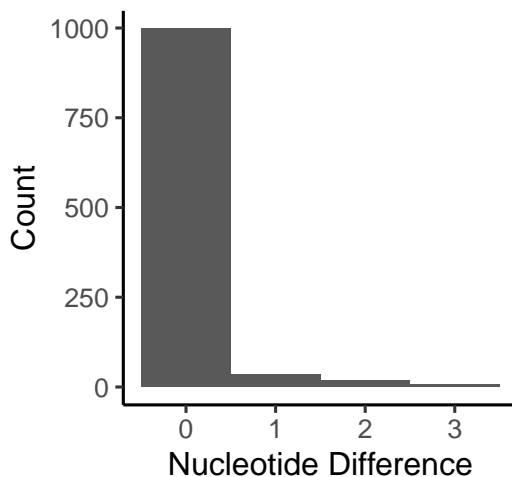
IGHV3-20*01_02

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



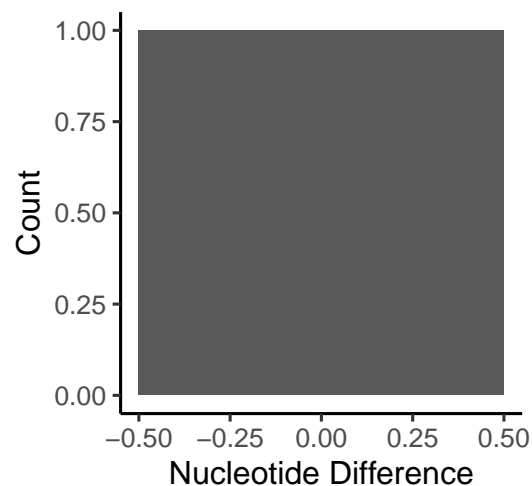
IGHV3-33*01

1056 sequences assigned
998 (94.5%) exact matches, in which:
967 unique CDR3
6 unique J



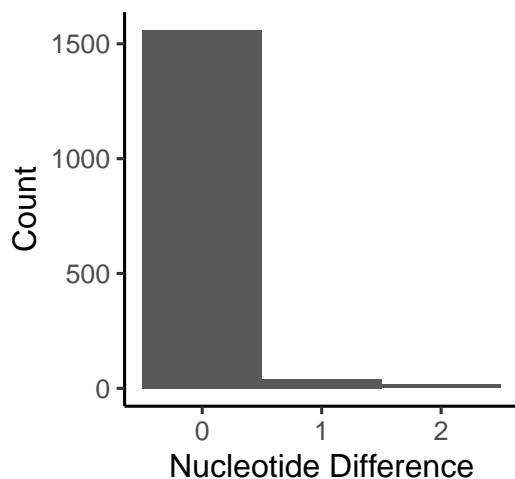
IGHV3-47*02

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



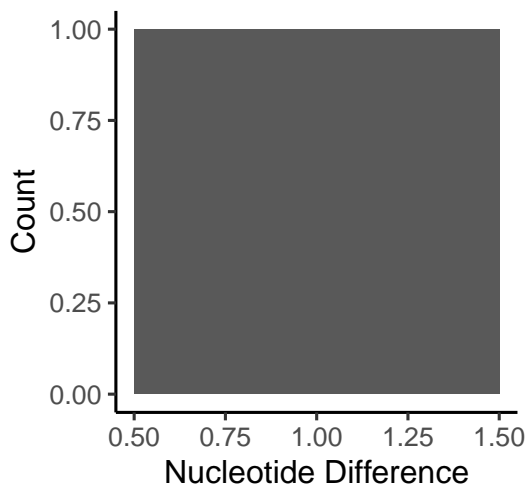
IGHV3-21*01_02

1618 sequences assigned
1560 (96.4%) exact matches, in which:
1488 unique CDR3
6 unique J



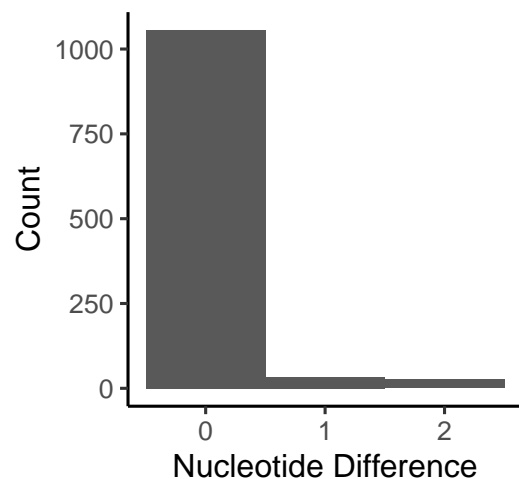
IGHV3-35*01

1 sequences assigned
No exact matches.



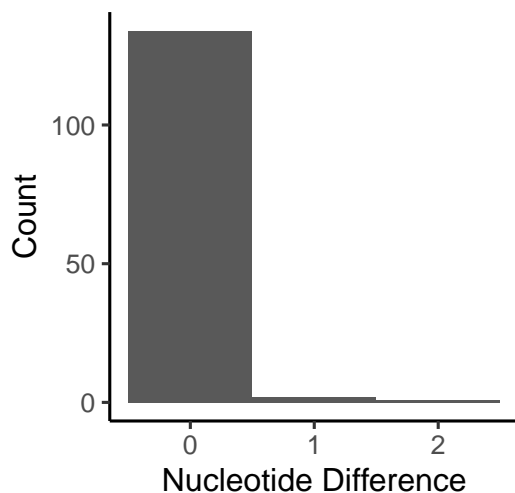
IGHV3-48*02

1116 sequences assigned
1056 (94.6%) exact matches, in which:
1017 unique CDR3
6 unique J



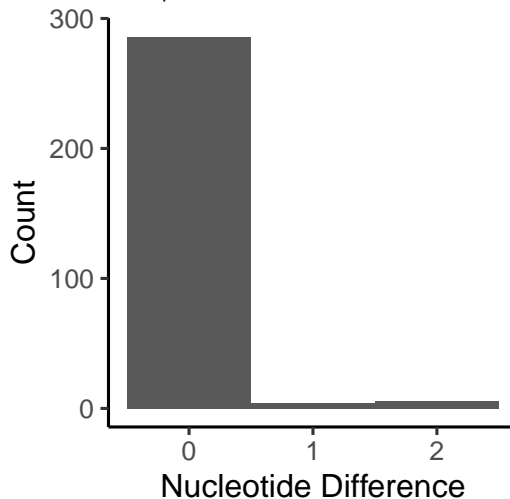
IGHV3-49*03_05

137 sequences assigned
134 (97.8%) exact matches, in which:
132 unique CDR3
5 unique J



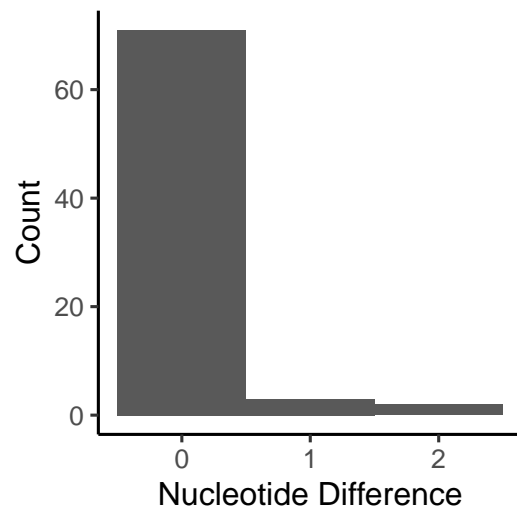
IGHV3-66*02

296 sequences assigned
286 (96.6%) exact matches, in which:
274 unique CDR3
6 unique J



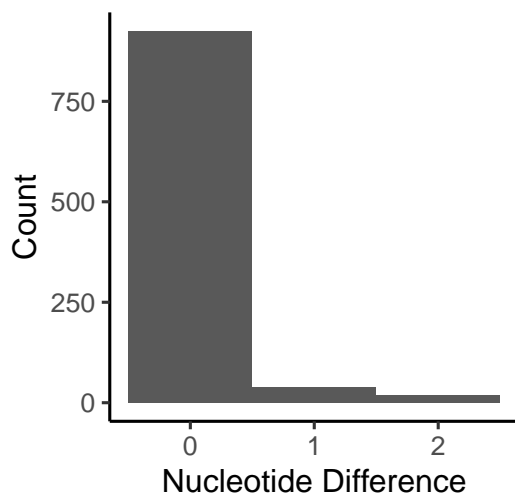
IGHV3-73*01_02

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



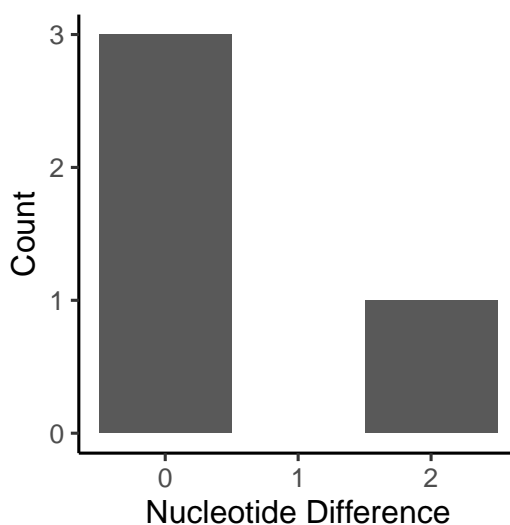
IGHV3-53*01_02

983 sequences assigned
925 (94.1%) exact matches, in which:
887 unique CDR3
6 unique J



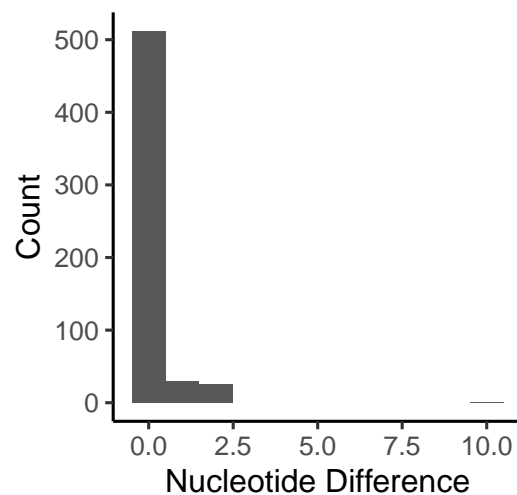
IGHV3-69-1*01

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



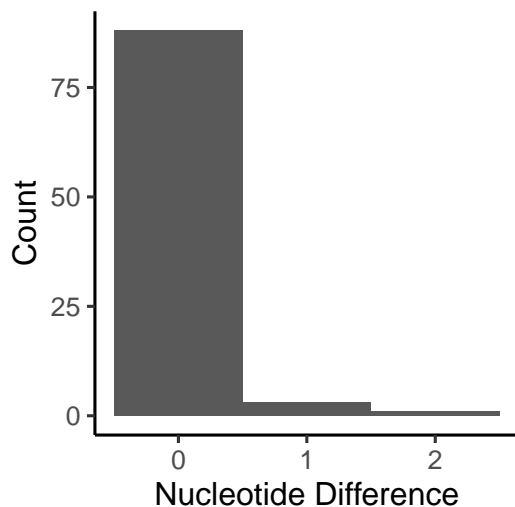
IGHV3-74*01_02

569 sequences assigned
512 (90%) exact matches, in which:
488 unique CDR3
6 unique J



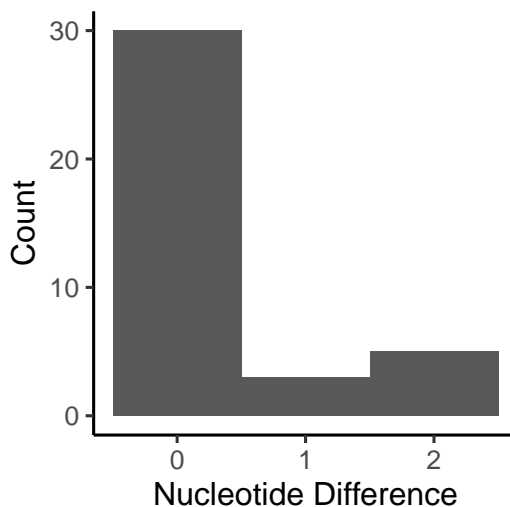
IGHV3-64*01

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



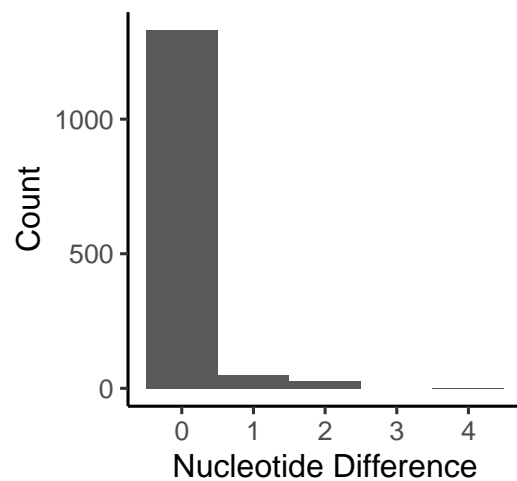
IGHV3-72*01

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



IGHV4-4*07

1409 sequences assigned
1331 (94.5%) exact matches, in which:
1297 unique CDR3
6 unique J



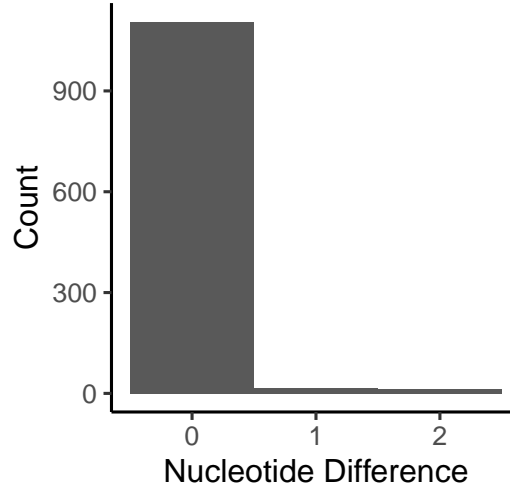
IGHV4-28*03

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



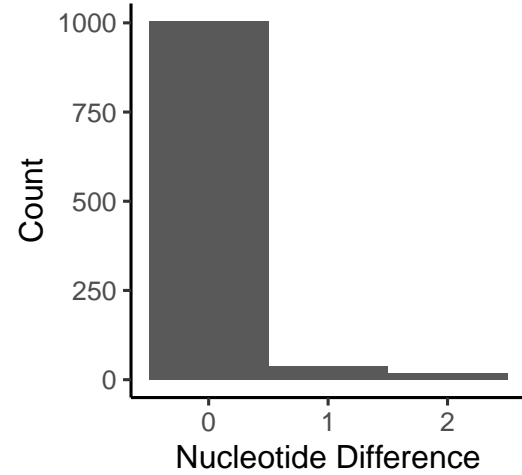
IGHV4-31*03_04

1133 sequences assigned
1106 (97.6%) exact matches, in which:
1083 unique CDR3
6 unique J



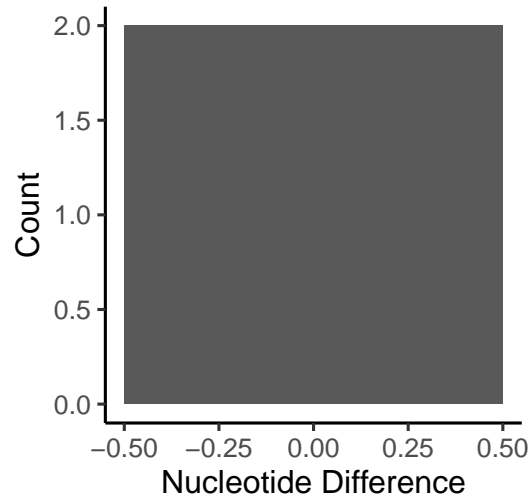
IGHV4-59*08

1060 sequences assigned
1004 (94.7%) exact matches, in which:
977 unique CDR3
6 unique J



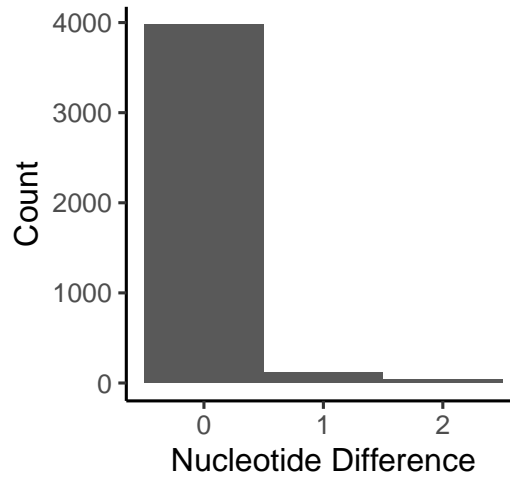
IGHV4-28*01_07

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



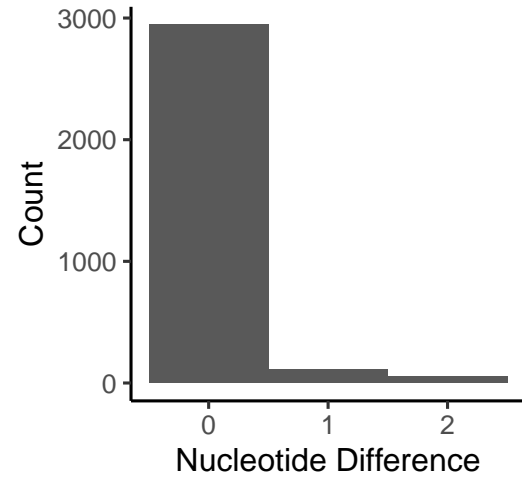
IGHV4-34*01_02

4138 sequences assigned
3976 (96.1%) exact matches, in which:
3859 unique CDR3
6 unique J



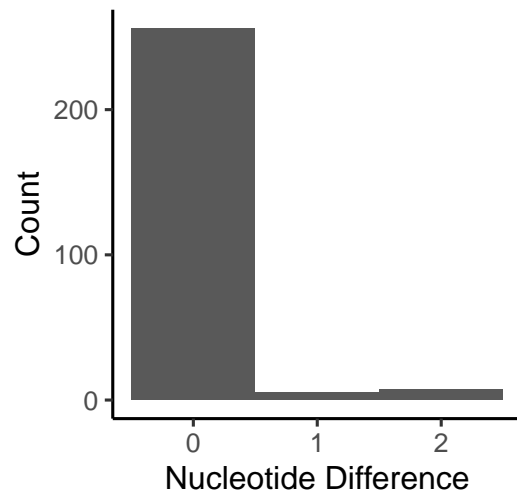
IGHV4-59*01_07

3107 sequences assigned
2945 (94.8%) exact matches, in which:
2853 unique CDR3
6 unique J



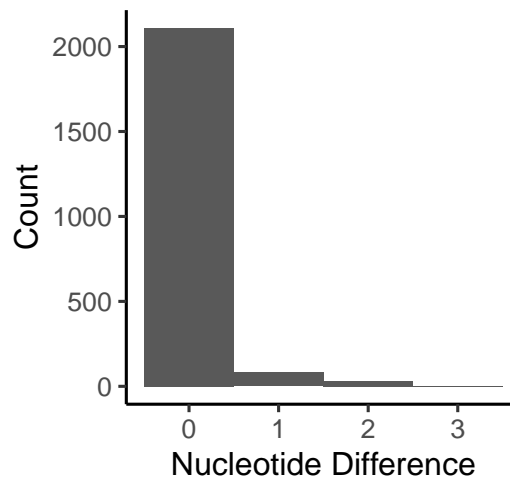
IGHV4-30-2*01

268 sequences assigned
256 (95.5%) exact matches, in which:
247 unique CDR3
6 unique J



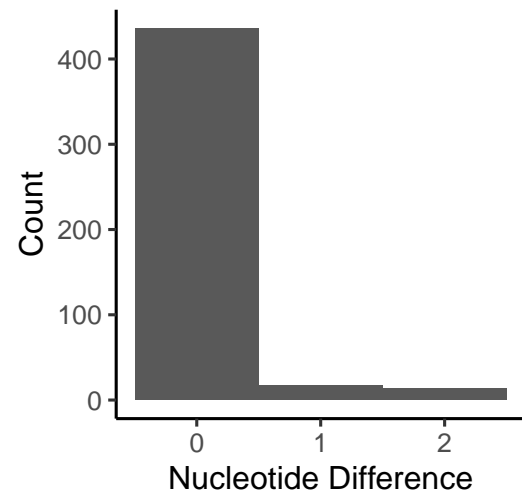
IGHV4-39*01_05

2227 sequences assigned
2109 (94.7%) exact matches, in which:
2033 unique CDR3
6 unique J



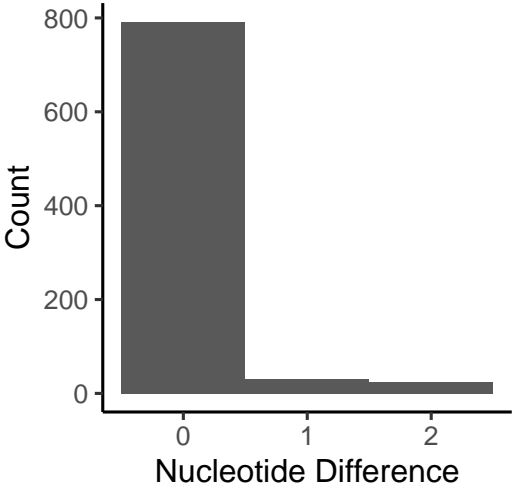
IGHV4-61*01

466 sequences assigned
436 (93.6%) exact matches, in which:
424 unique CDR3
5 unique J



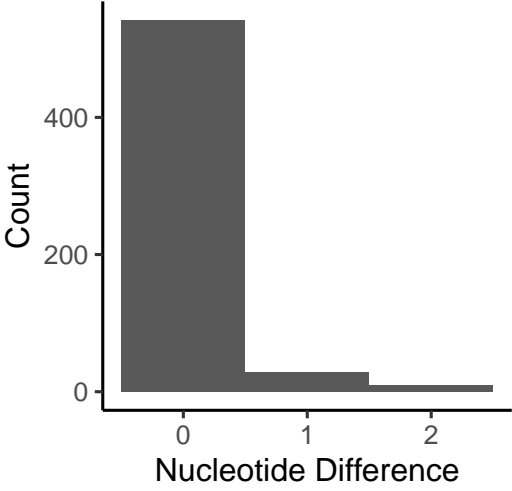
IGHV5-51*01_03

847 sequences assigned
792 (93.5%) exact matches, in which:
792 unique CDR3
6 unique J



IGHV6-1*01_02

580 sequences assigned
542 (93.4%) exact matches, in which:
539 unique CDR3
6 unique J





Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.