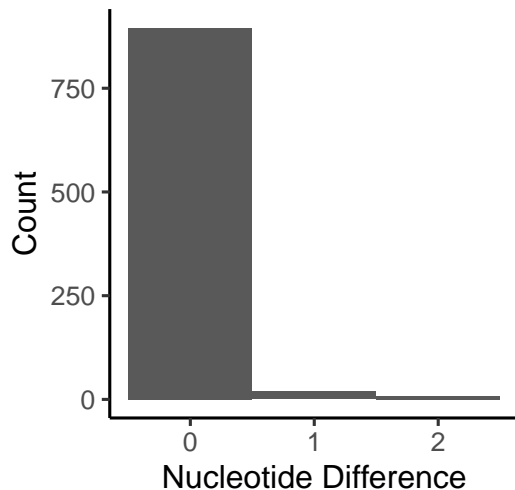


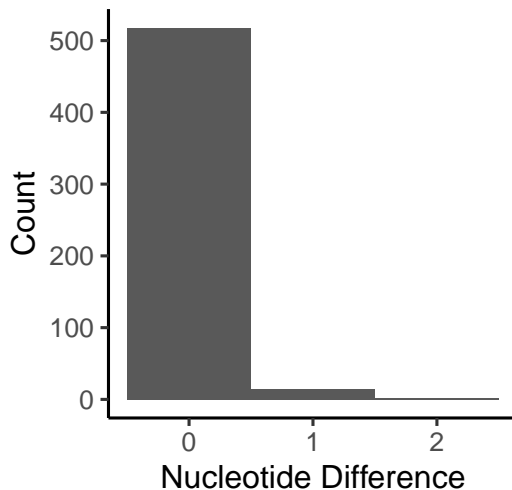
IGHV1-2*02

923 sequences assigned
896 (97.1%) exact matches, in which:
896 unique CDR3
6 unique J



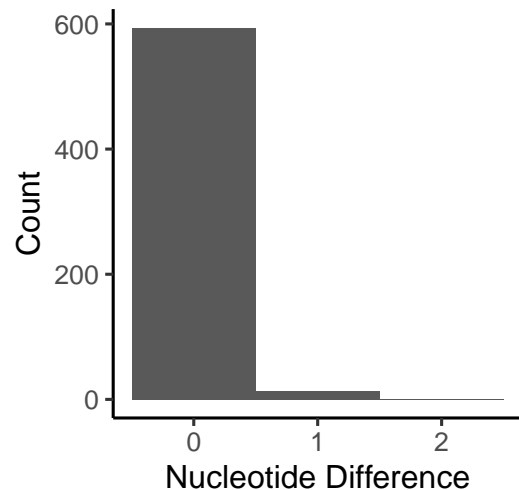
IGHV1-8*01

534 sequences assigned
518 (97%) exact matches, in which:
518 unique CDR3
6 unique J



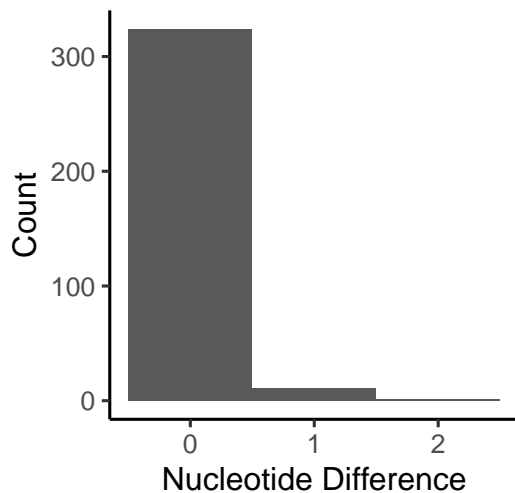
IGHV1-24*01

608 sequences assigned
594 (97.7%) exact matches, in which:
593 unique CDR3
6 unique J



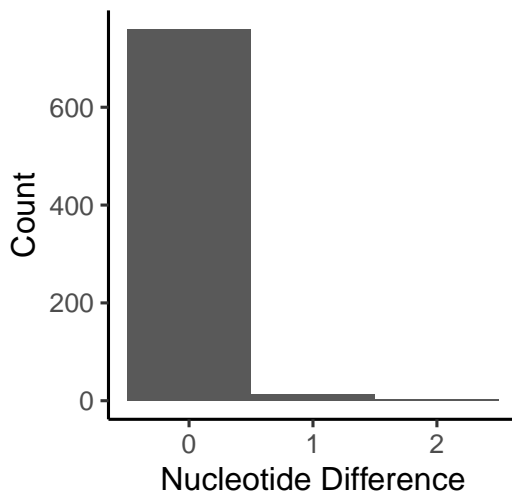
IGHV1-2*04

336 sequences assigned
324 (96.4%) exact matches, in which:
324 unique CDR3
5 unique J



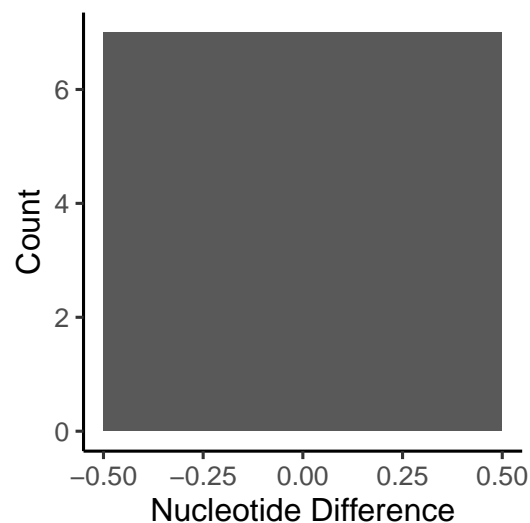
IGHV1-18*01

777 sequences assigned
760 (97.8%) exact matches, in which:
760 unique CDR3
6 unique J



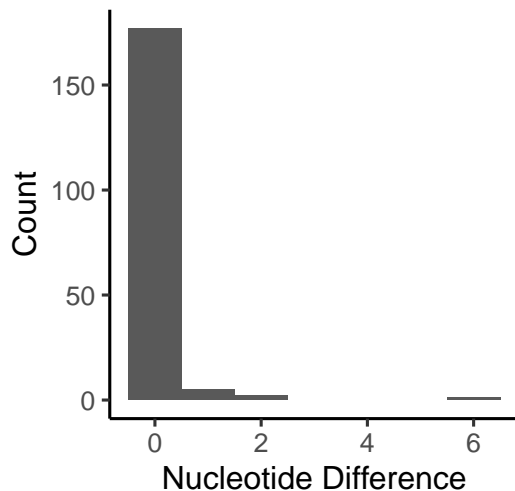
IGHV1-45*02

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



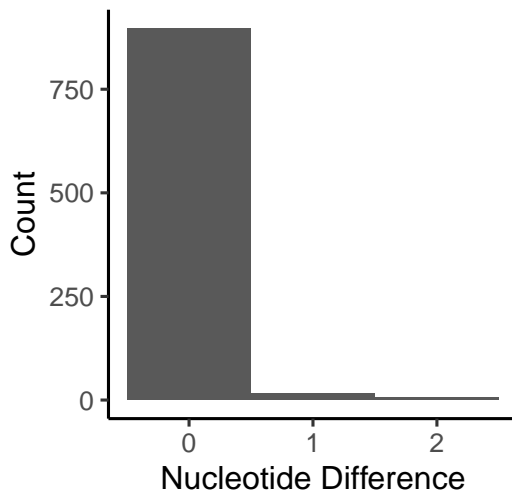
IGHV1-3*01_05

185 sequences assigned
177 (95.7%) exact matches, in which:
177 unique CDR3
6 unique J



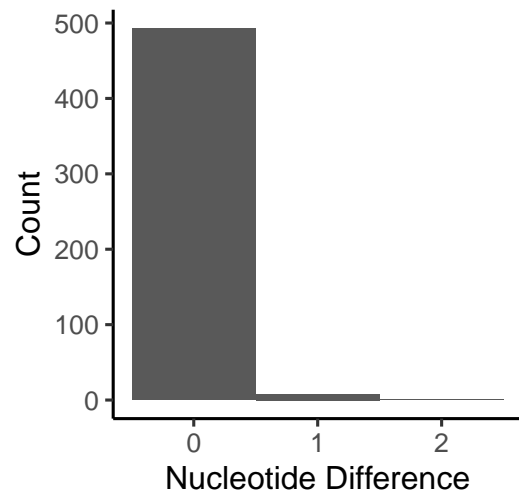
IGHV1-18*04

919 sequences assigned
897 (97.6%) exact matches, in which:
897 unique CDR3
6 unique J



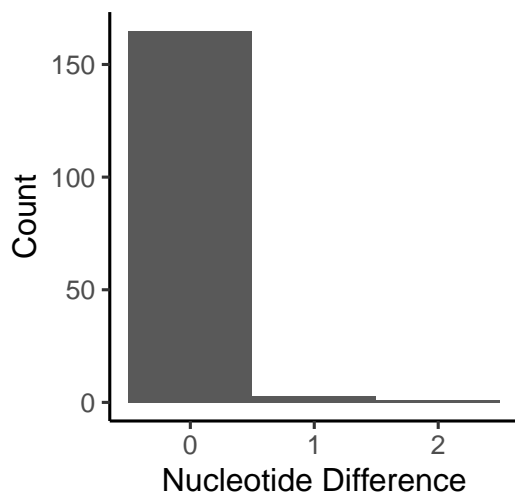
IGHV1-46*01

502 sequences assigned
493 (98.2%) exact matches, in which:
493 unique CDR3
6 unique J



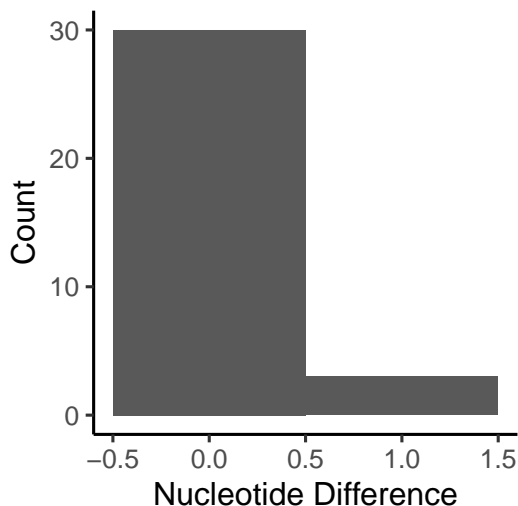
IGHV1–58*01_03

169 sequences assigned
165 (97.6%) exact matches, in which:
165 unique CDR3
5 unique J



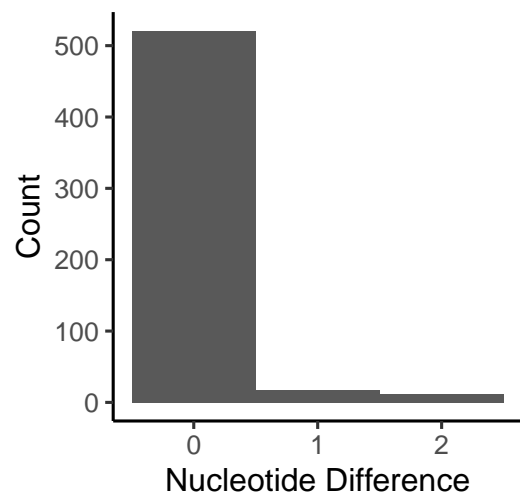
IGHV2–26*01

33 sequences assigned
30 (90.9%) exact matches, in which:
30 unique CDR3
5 unique J



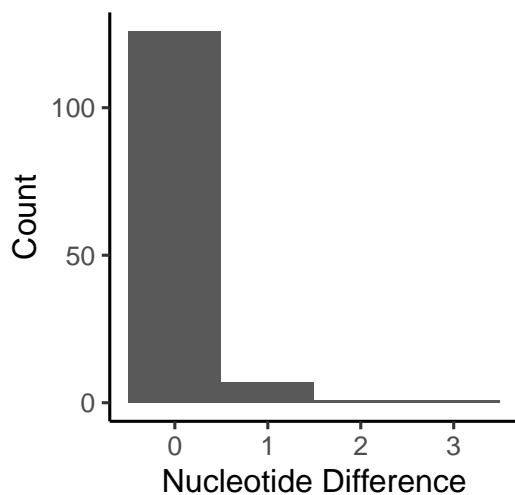
IGHV3–7*03

550 sequences assigned
521 (94.7%) exact matches, in which:
518 unique CDR3
6 unique J



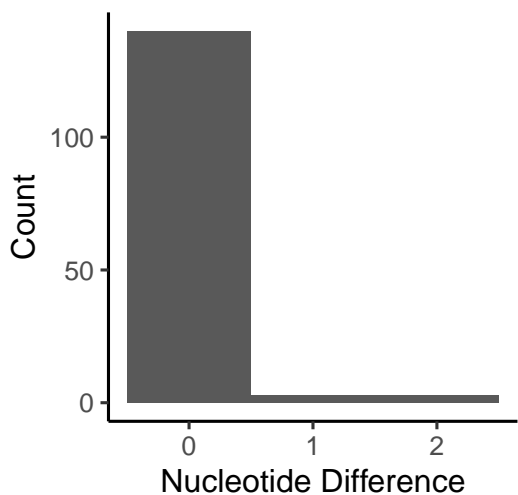
IGHV2–5*01

135 sequences assigned
126 (93.3%) exact matches, in which:
126 unique CDR3
6 unique J



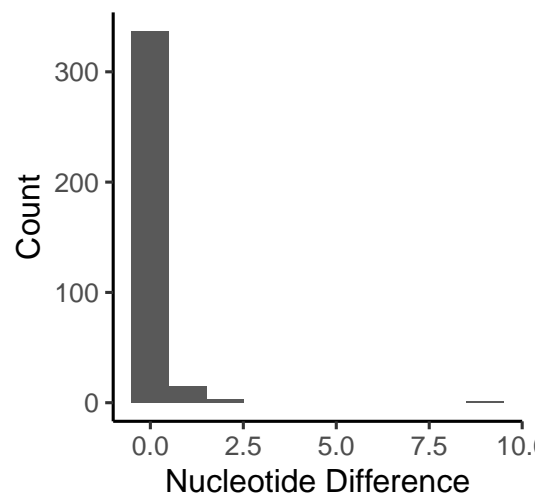
IGHV2–70*01

146 sequences assigned
140 (95.9%) exact matches, in which:
140 unique CDR3
5 unique J



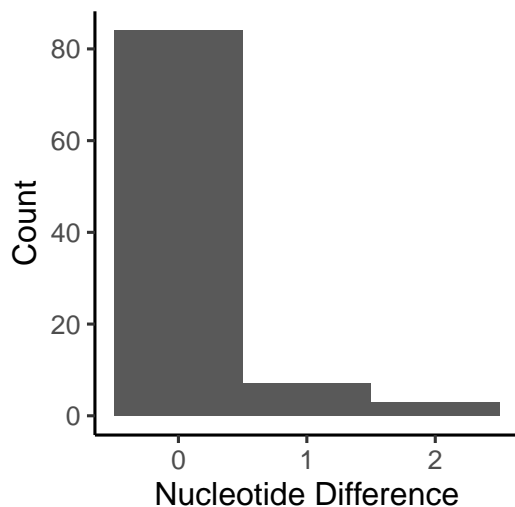
IGHV3–9*01

356 sequences assigned
337 (94.7%) exact matches, in which:
334 unique CDR3
6 unique J



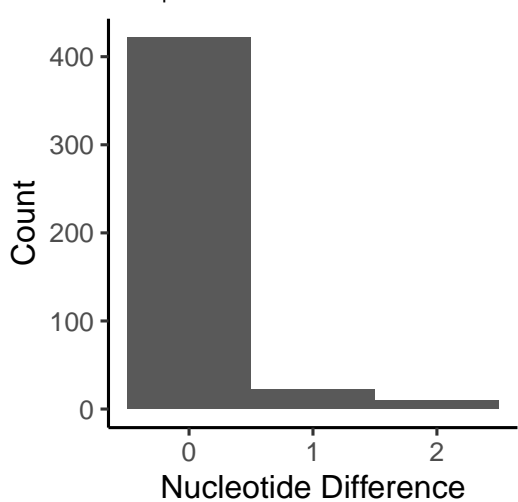
IGHV2–5*02

94 sequences assigned
84 (89.4%) exact matches, in which:
84 unique CDR3
6 unique J



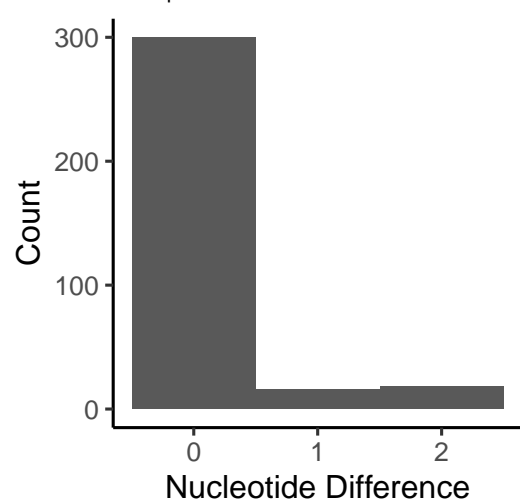
IGHV3–7*01

454 sequences assigned
422 (93%) exact matches, in which:
418 unique CDR3
6 unique J



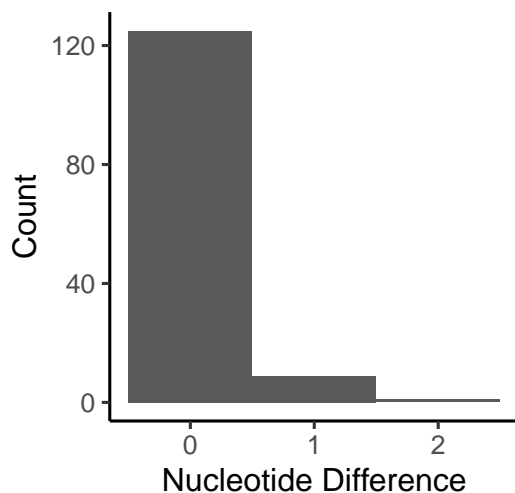
IGHV3–11*01

334 sequences assigned
300 (89.8%) exact matches, in which:
300 unique CDR3
6 unique J



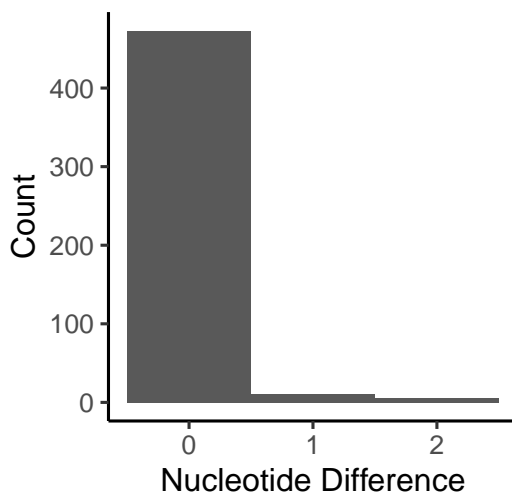
IGHV3-11*06

135 sequences assigned
125 (92.6%) exact matches, in which:
124 unique CDR3
5 unique J



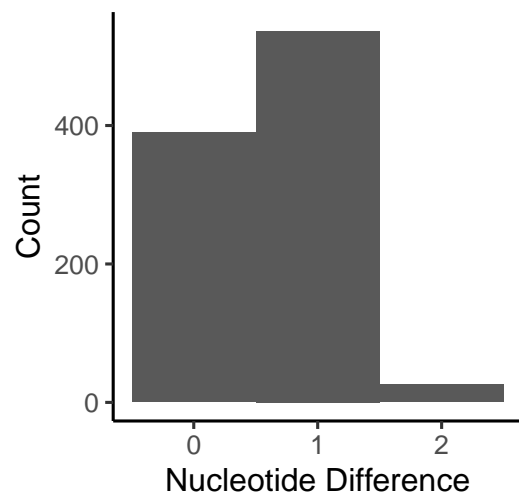
IGHV3-15*01_02

490 sequences assigned
473 (96.5%) exact matches, in which:
472 unique CDR3
6 unique J



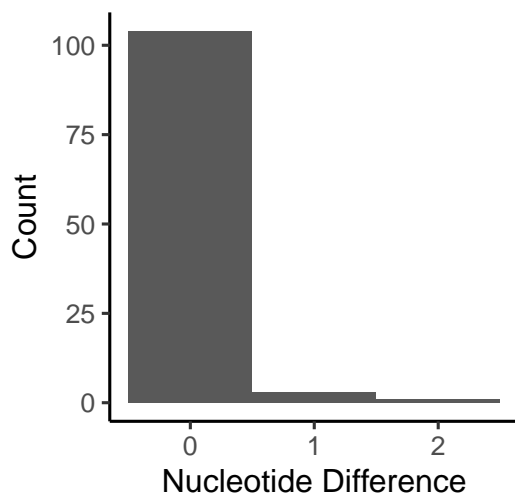
IGHV3-33*01

953 sequences assigned
390 (40.9%) exact matches, in which:
389 unique CDR3
6 unique J



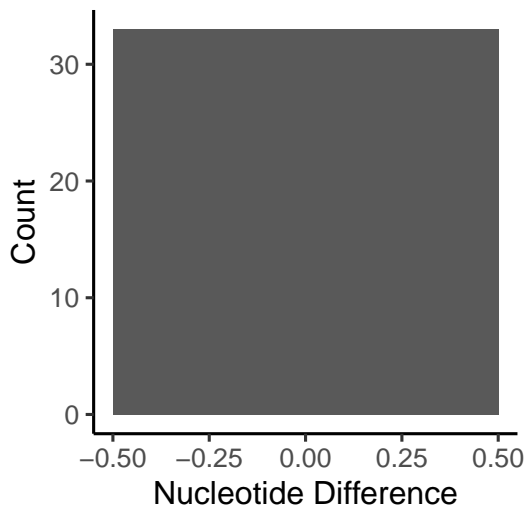
IGHV3-13*01

108 sequences assigned
104 (96.3%) exact matches, in which:
103 unique CDR3
6 unique J



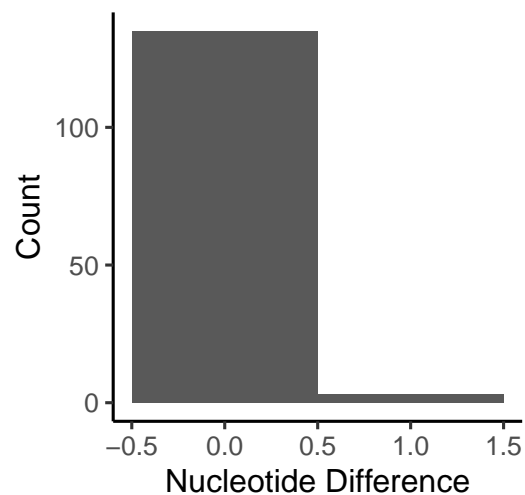
IGHV3-20*01_02

33 sequences assigned
33 (100%) exact matches, in which:
33 unique CDR3
5 unique J



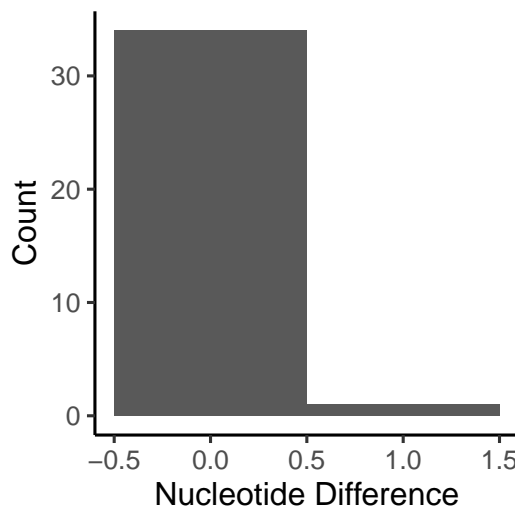
IGHV3-43*01

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



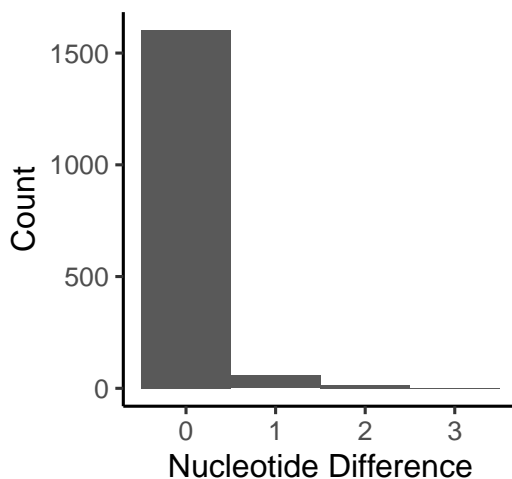
IGHV3-13*05

35 sequences assigned
34 (97.1%) exact matches, in which:
33 unique CDR3
5 unique J



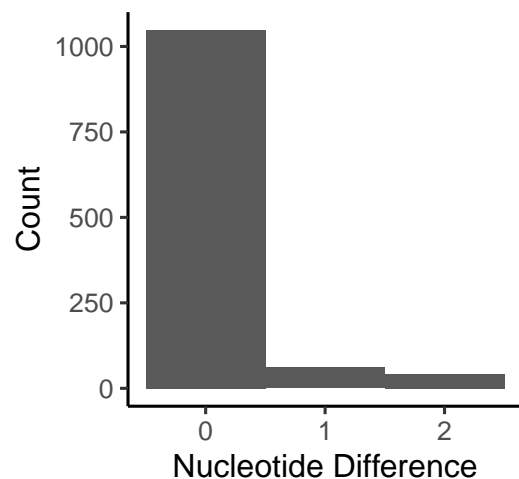
IGHV3-21*01_02

1678 sequences assigned
1603 (95.5%) exact matches, in which:
1588 unique CDR3
6 unique J



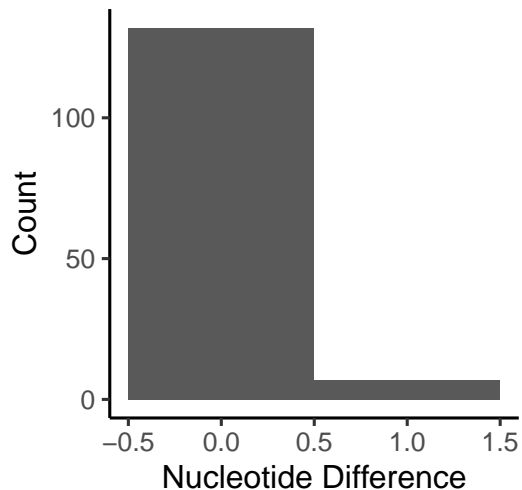
IGHV3-48*02

1151 sequences assigned
1048 (91.1%) exact matches, in which:
1040 unique CDR3
6 unique J



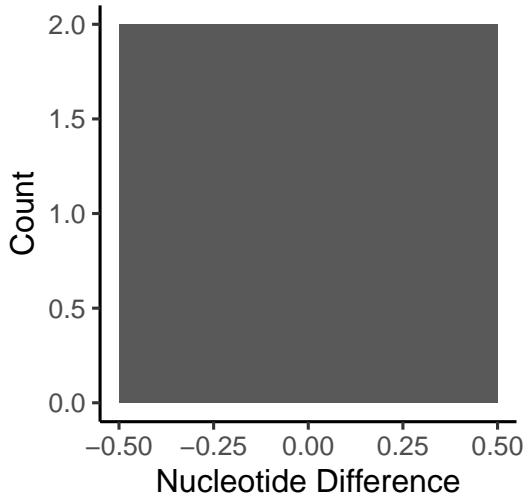
IGHV3-49*03_05

139 sequences assigned
132 (95%) exact matches, in which:
132 unique CDR3
6 unique J



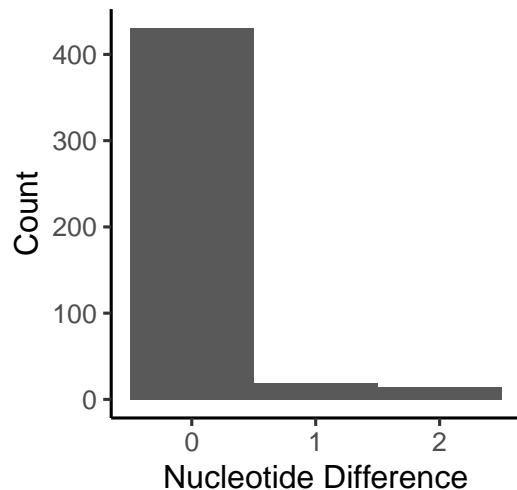
IGHV3-66*03

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



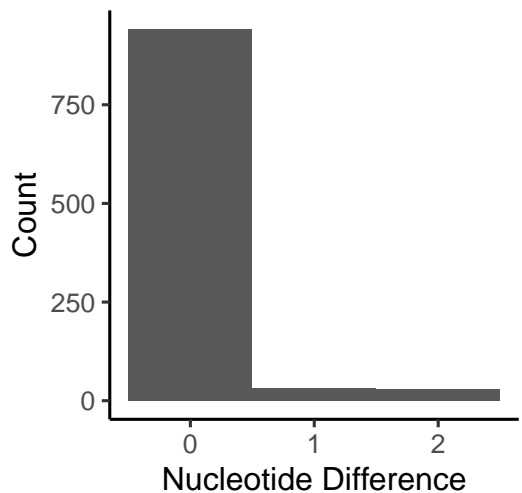
IGHV3-74*01_02

464 sequences assigned
431 (92.9%) exact matches, in which:
425 unique CDR3
6 unique J



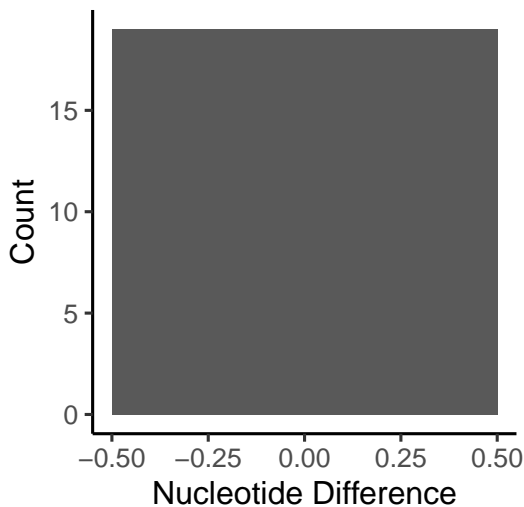
IGHV3-53*01_02

1003 sequences assigned
942 (93.9%) exact matches, in which:
928 unique CDR3
6 unique J



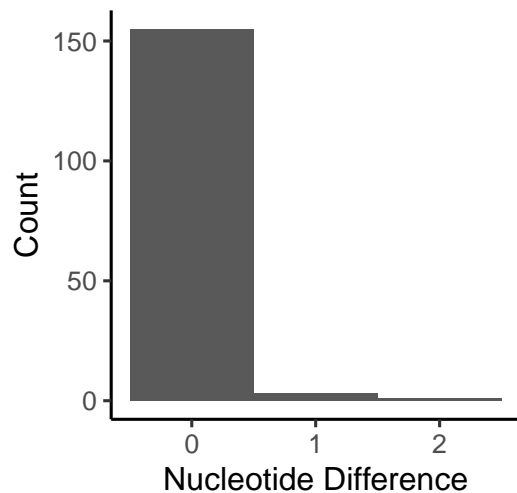
IGHV3-72*01

19 sequences assigned
19 (100%) exact matches, in which:
19 unique CDR3
5 unique J



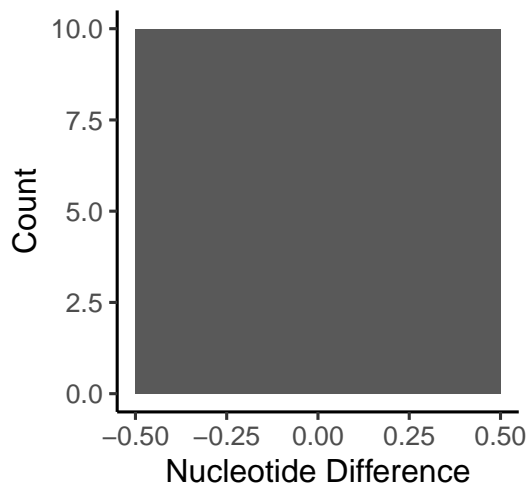
IGHV3-64D*06

159 sequences assigned
155 (97.5%) exact matches, in which:
154 unique CDR3
6 unique J



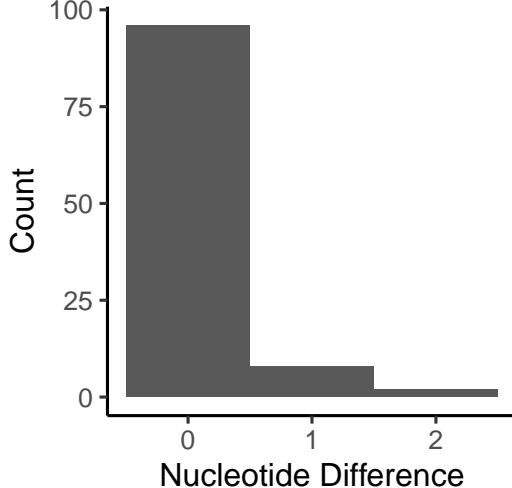
IGHV3-64*02_07

10 sequences assigned
10 (100%) exact matches, in which:
10 unique CDR3
4 unique J



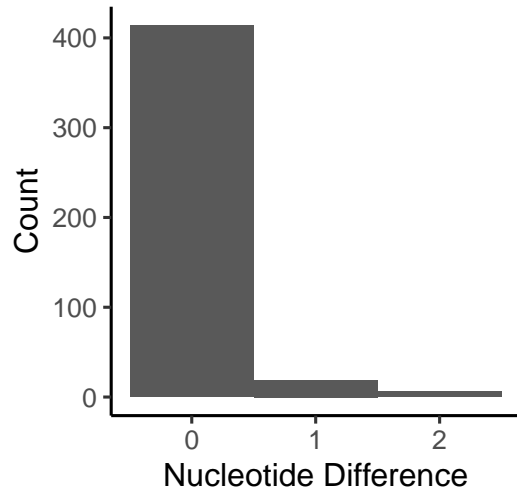
IGHV3-73*01_02

106 sequences assigned
96 (90.6%) exact matches, in which:
95 unique CDR3
5 unique J



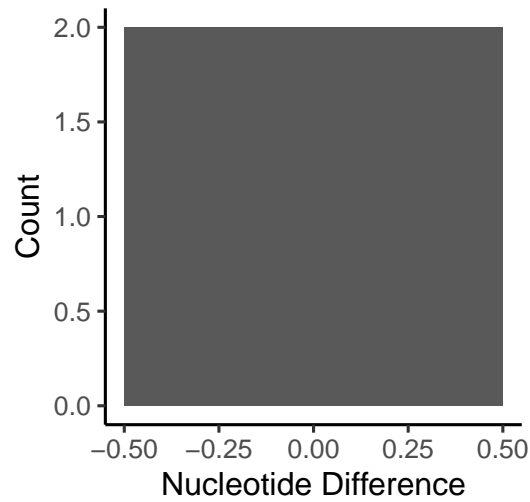
IGHV4-4*07

439 sequences assigned
414 (94.3%) exact matches, in which:
413 unique CDR3
6 unique J



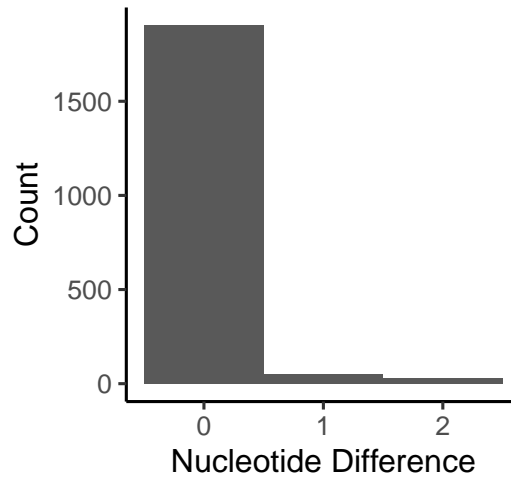
IGHV4-28*01_07

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



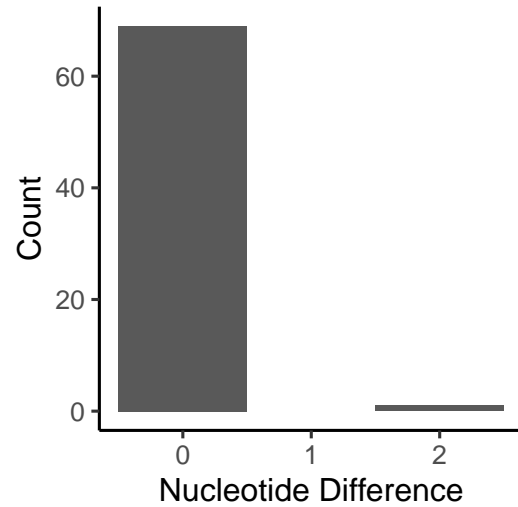
IGHV4-39*01_05

1987 sequences assigned
1903 (95.8%) exact matches, in which:
1900 unique CDR3
6 unique J



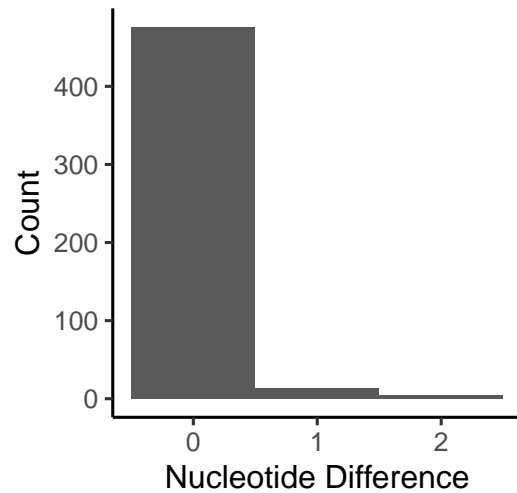
IGHV5-10-1*01_03

70 sequences assigned
69 (98.6%) exact matches, in which:
69 unique CDR3
5 unique J



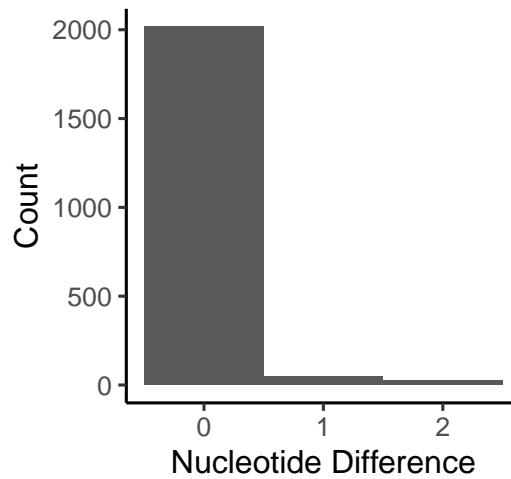
IGHV4-31*03_04

493 sequences assigned
476 (96.6%) exact matches, in which:
472 unique CDR3
6 unique J



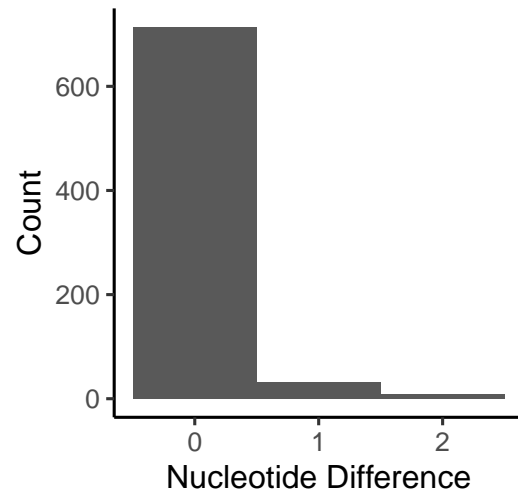
IGHV4-59*01_07

2089 sequences assigned
2017 (96.6%) exact matches, in which:
2005 unique CDR3
6 unique J



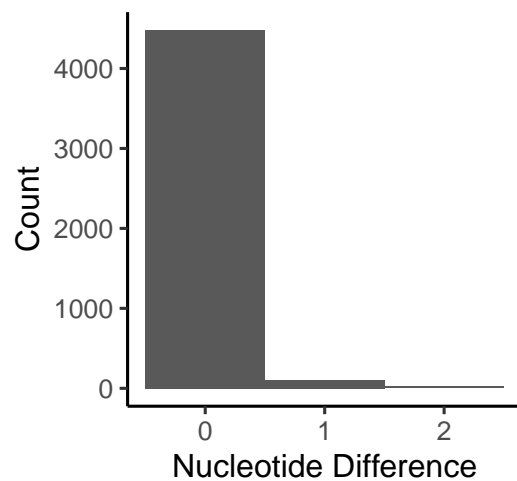
IGHV5-51*01_03

754 sequences assigned
714 (94.7%) exact matches, in which:
714 unique CDR3
6 unique J



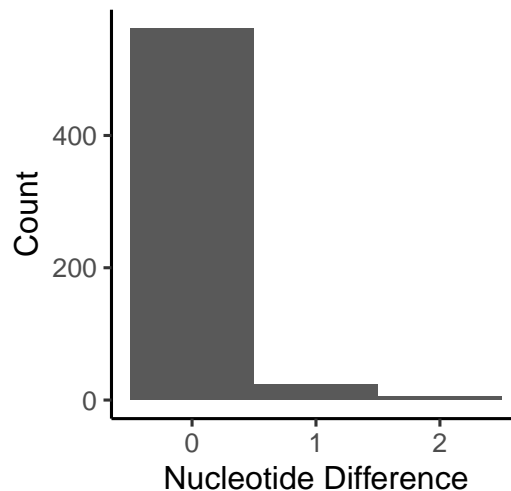
IGHV4-34*01_02

4605 sequences assigned
4481 (97.3%) exact matches, in which:
4457 unique CDR3
6 unique J



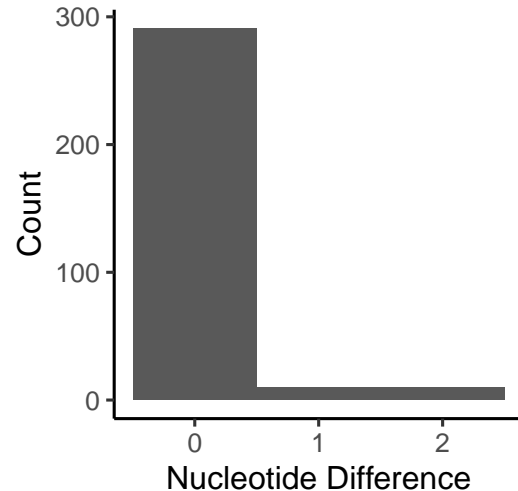
IGHV4-61*01

591 sequences assigned
562 (95.1%) exact matches, in which:
560 unique CDR3
6 unique J



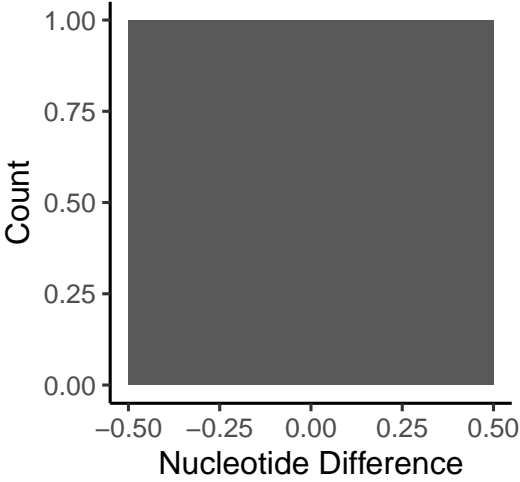
IGHV6-1*01_02

311 sequences assigned
291 (93.6%) exact matches, in which:
291 unique CDR3
6 unique J



IGHV7-4-1*01

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





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