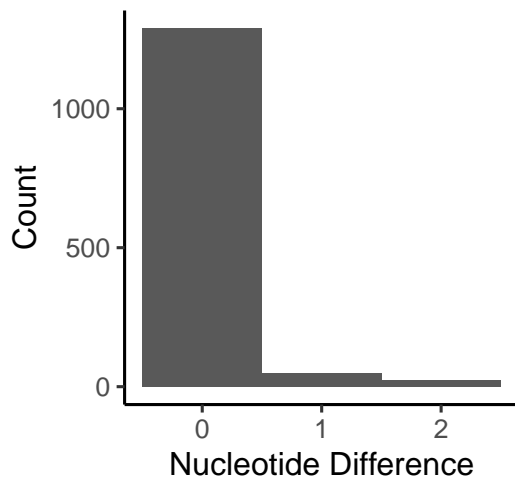


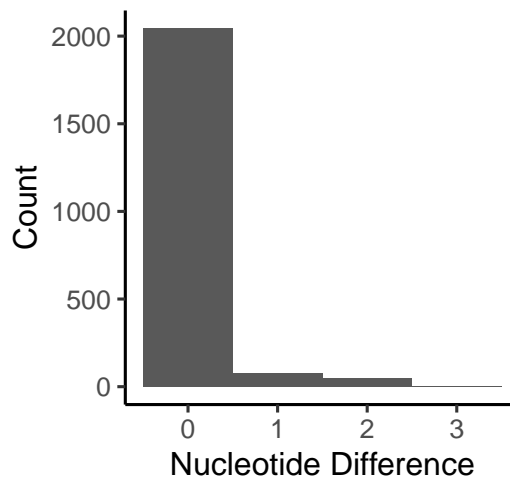
IGHV1-2*02

1360 sequences assigned
1289 (94.8%) exact matches, in which:
1281 unique CDR3
6 unique J



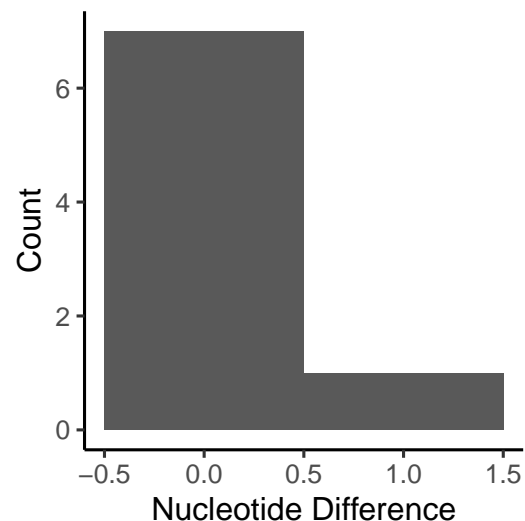
IGHV1-8*01

2168 sequences assigned
2044 (94.3%) exact matches, in which:
2023 unique CDR3
6 unique J



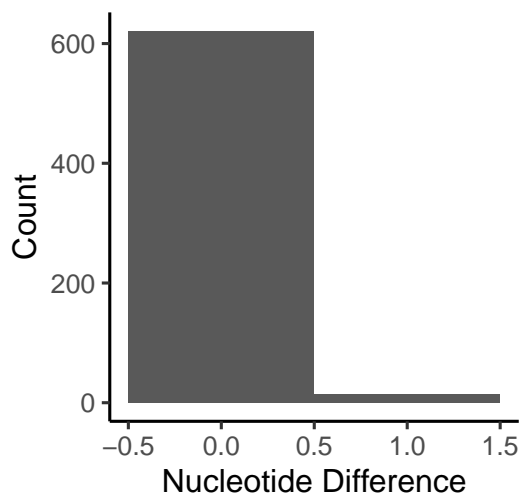
IGHV1-45*02

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



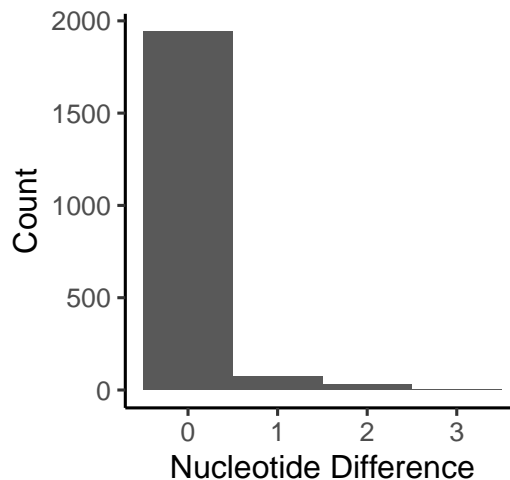
IGHV1-2*06

636 sequences assigned
621 (97.6%) exact matches, in which:
617 unique CDR3
6 unique J



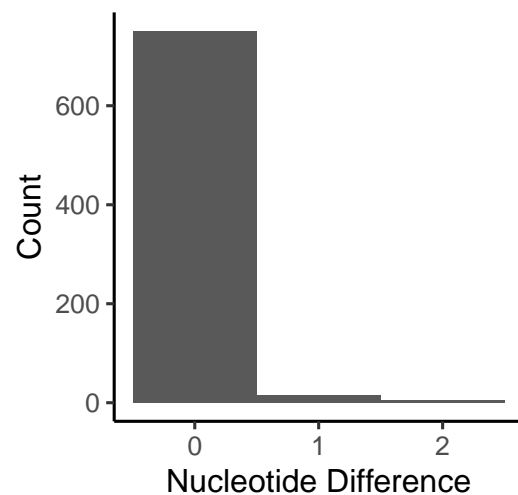
IGHV1-18*01

2046 sequences assigned
1941 (94.9%) exact matches, in which:
1927 unique CDR3
6 unique J



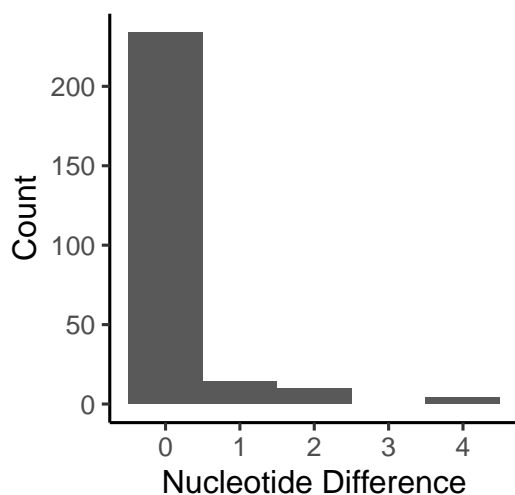
IGHV1-46*01

772 sequences assigned
751 (97.3%) exact matches, in which:
749 unique CDR3
6 unique J



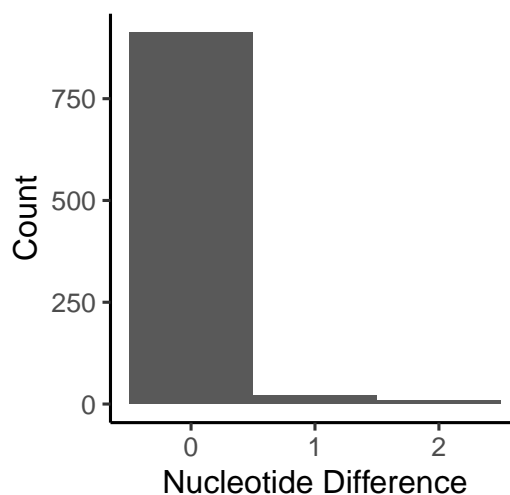
IGHV1-3*01_05

262 sequences assigned
234 (89.3%) exact matches, in which:
233 unique CDR3
6 unique J



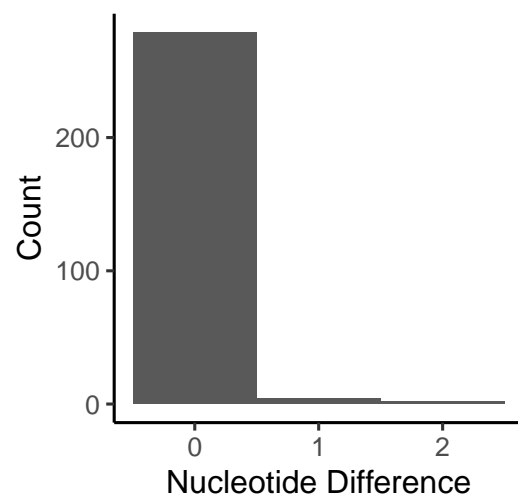
IGHV1-24*01

942 sequences assigned
913 (96.9%) exact matches, in which:
906 unique CDR3
6 unique J



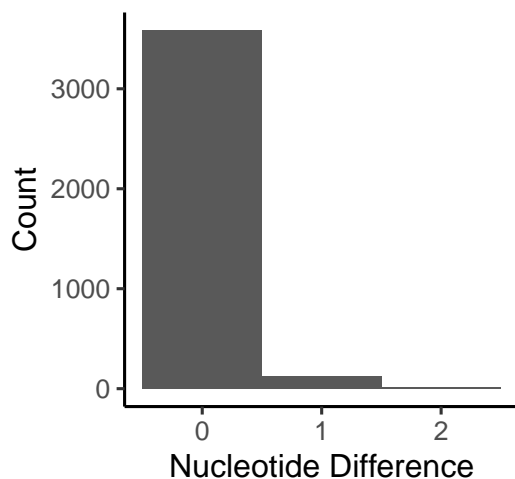
IGHV1-58*01_03

285 sequences assigned
279 (97.9%) exact matches, in which:
276 unique CDR3
6 unique J



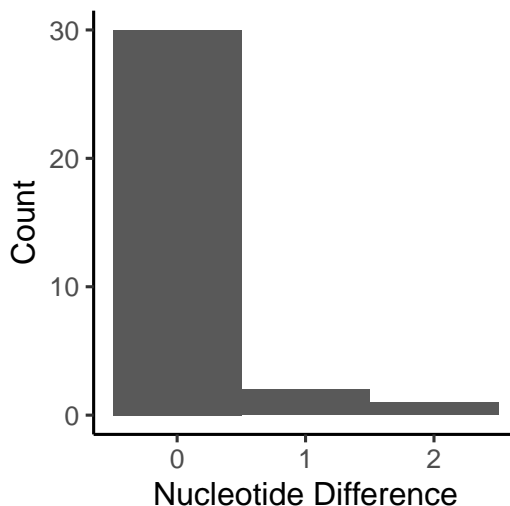
IGHV1-69*01_12_13

3720 sequences assigned
3584 (96.3%) exact matches, in which:
3549 unique CDR3
6 unique J



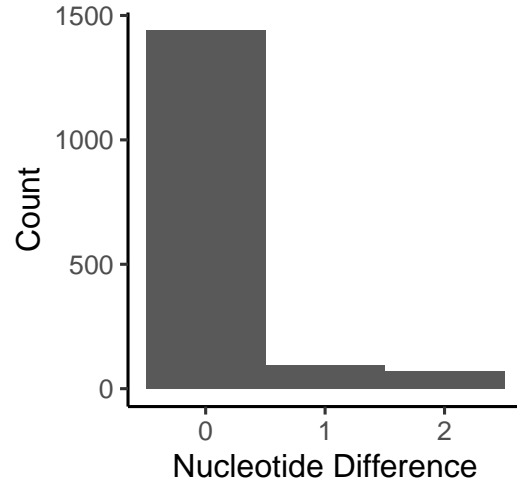
IGHV2-26*01

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



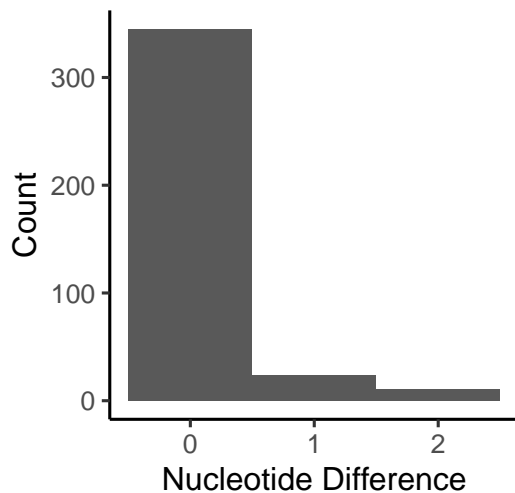
IGHV3-7*01

1608 sequences assigned
1440 (89.6%) exact matches, in which:
1360 unique CDR3
6 unique J



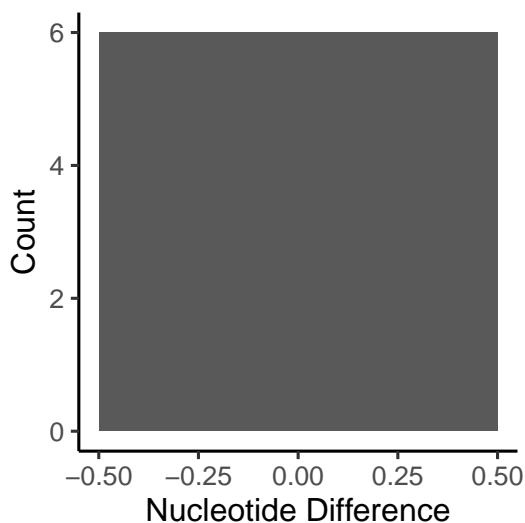
IGHV2-5*01

380 sequences assigned
345 (90.8%) exact matches, in which:
339 unique CDR3
6 unique J



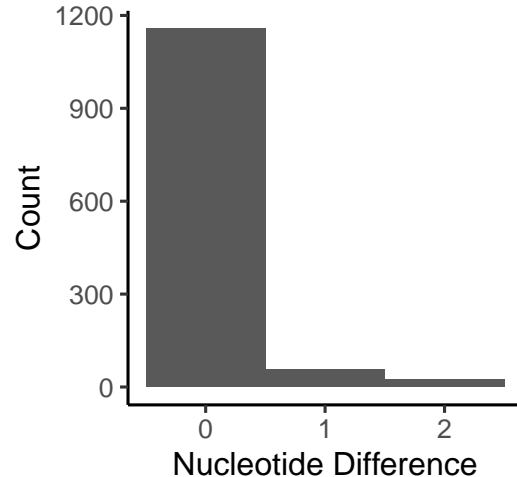
IGHV2-26*04

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



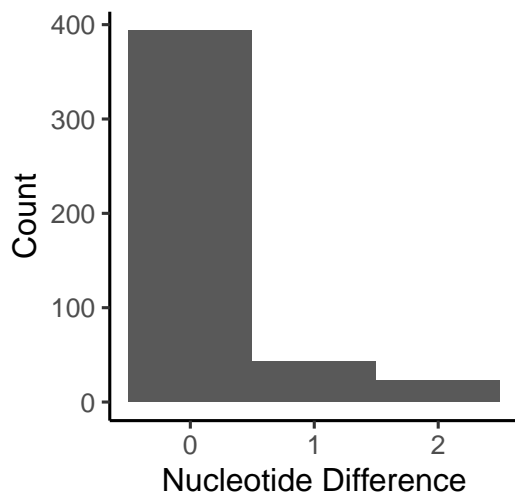
IGHV3-9*01

1239 sequences assigned
1157 (93.4%) exact matches, in which:
1114 unique CDR3
6 unique J



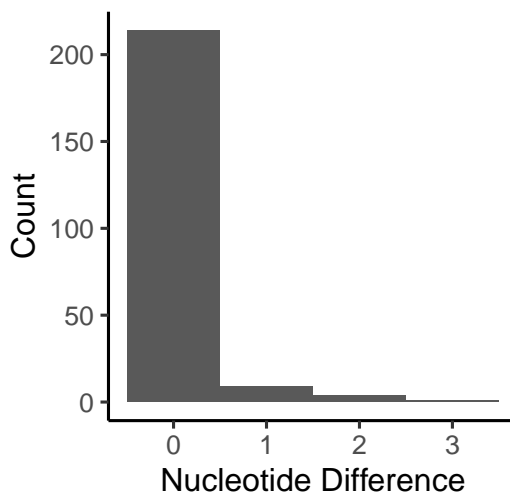
IGHV2-5*02

460 sequences assigned
394 (85.7%) exact matches, in which:
383 unique CDR3
6 unique J



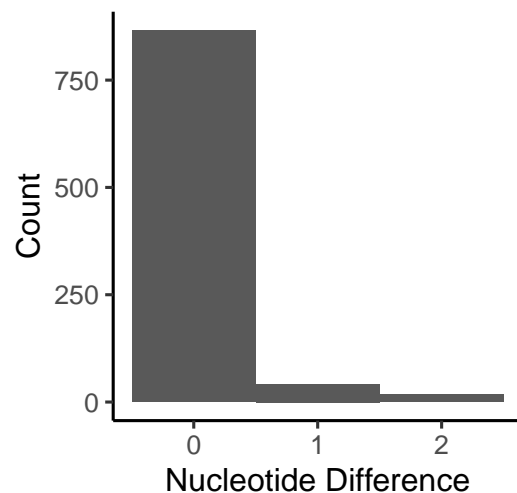
IGHV2-70*01

228 sequences assigned
214 (93.9%) exact matches, in which:
213 unique CDR3
6 unique J



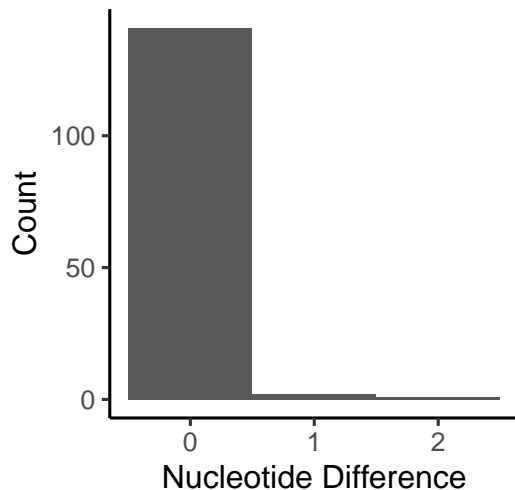
IGHV3-11*01

925 sequences assigned
866 (93.6%) exact matches, in which:
806 unique CDR3
6 unique J



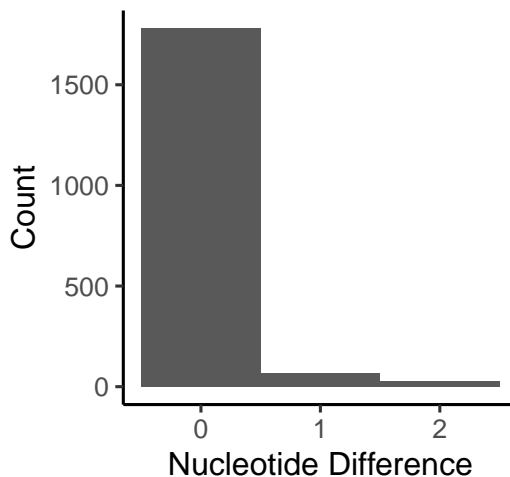
IGHV3-13*01

144 sequences assigned
141 (97.9%) exact matches, in which:
138 unique CDR3
6 unique J



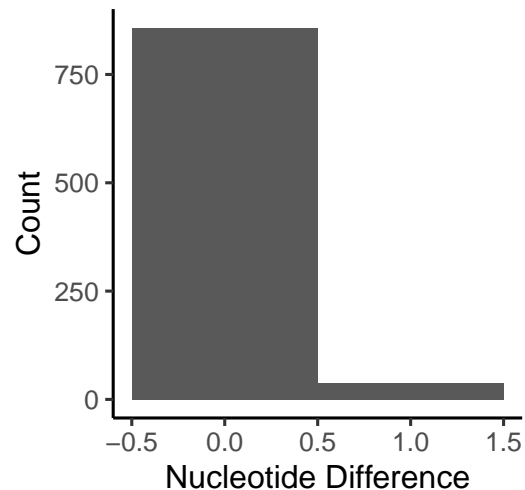
IGHV3-21*01_02

1874 sequences assigned
1780 (95%) exact matches, in which:
1656 unique CDR3
6 unique J



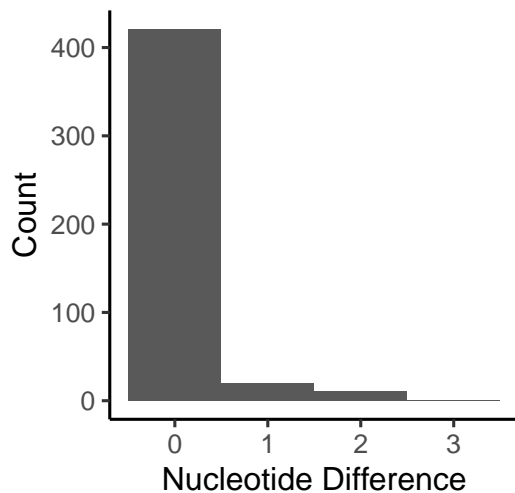
IGHV3-33*08

895 sequences assigned
858 (95.9%) exact matches, in which:
822 unique CDR3
6 unique J



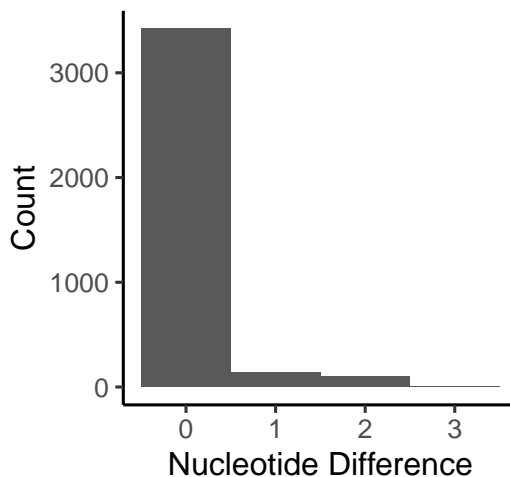
IGHV3-15*01_02

453 sequences assigned
421 (92.9%) exact matches, in which:
405 unique CDR3
6 unique J



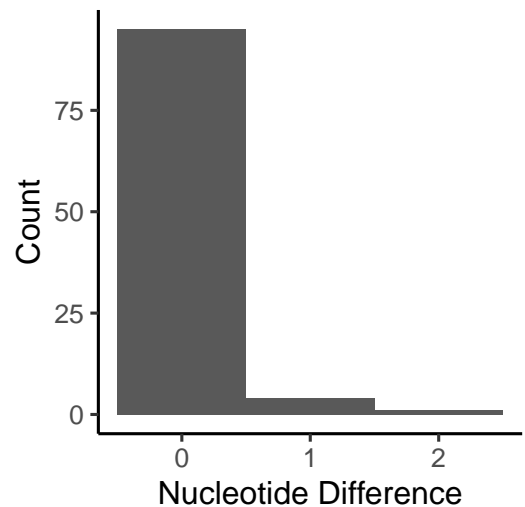
IGHV3-23*01_04

3654 sequences assigned
3421 (93.6%) exact matches, in which:
3164 unique CDR3
6 unique J



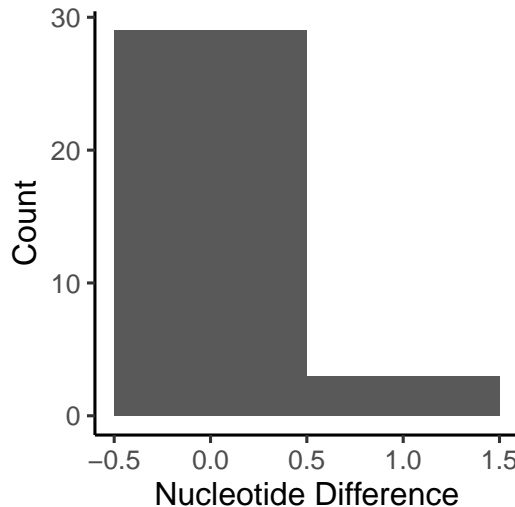
IGHV3-43*01

100 sequences assigned
95 (95%) exact matches, in which:
89 unique CDR3
5 unique J



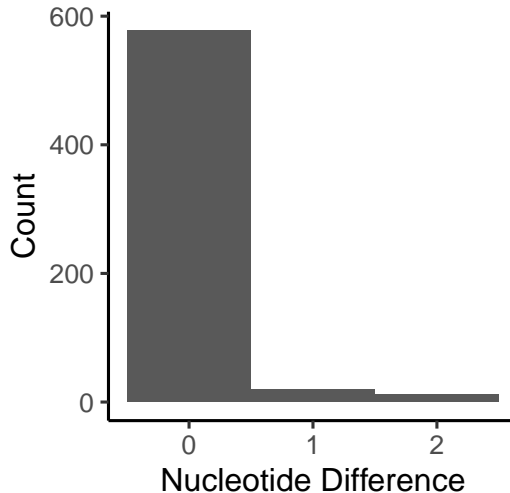
IGHV3-20*01_02

32 sequences assigned
29 (90.6%) exact matches, in which:
28 unique CDR3
5 unique J



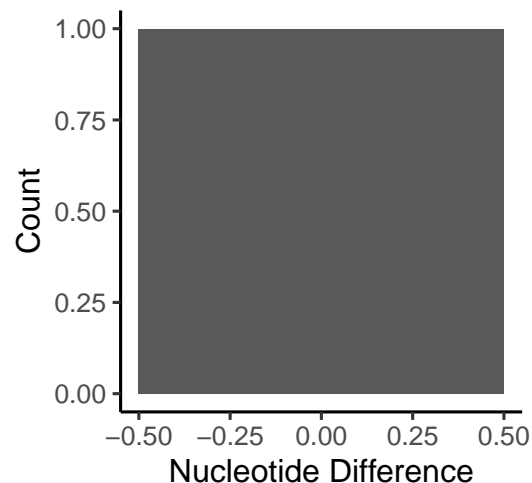
IGHV3-33*01

610 sequences assigned
578 (94.8%) exact matches, in which:
545 unique CDR3
6 unique J



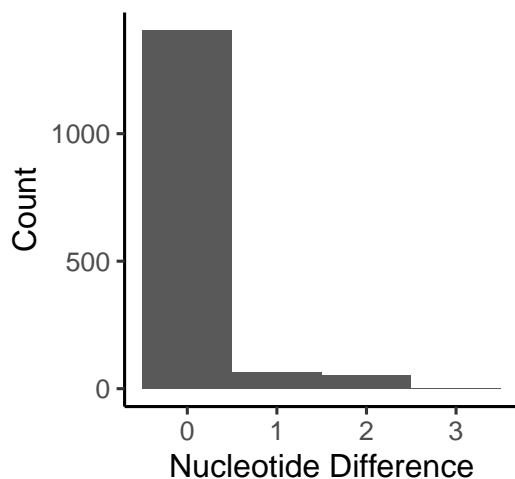
IGHV3-47*02

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



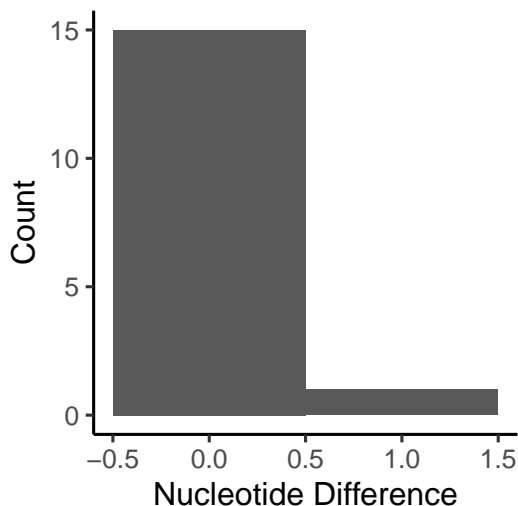
IGHV3-48*02

1522 sequences assigned
1405 (92.3%) exact matches, in which:
1273 unique CDR3
6 unique J



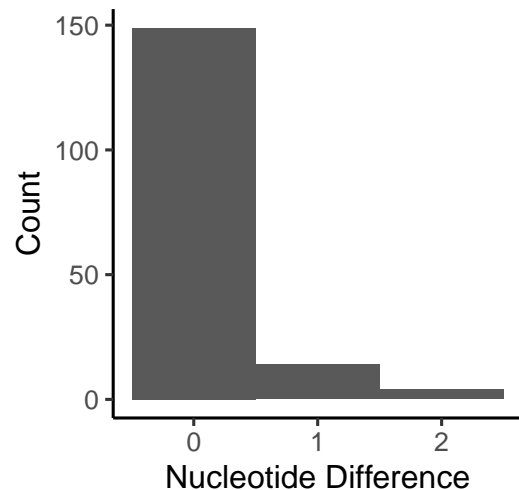
IGHV3-64*02_07

16 sequences assigned
15 (93.8%) exact matches, in which:
13 unique CDR3
4 unique J



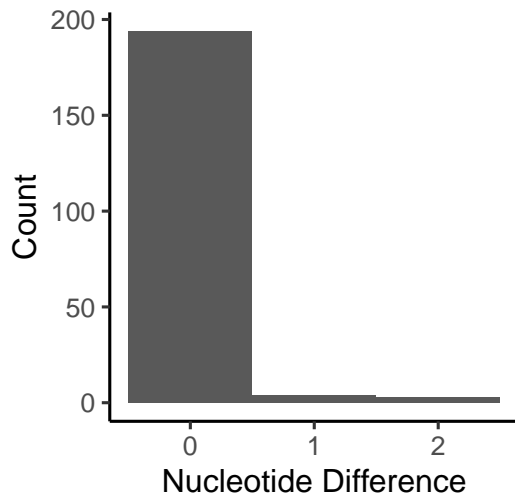
IGHV3-73*01_02

167 sequences assigned
149 (89.2%) exact matches, in which:
138 unique CDR3
5 unique J



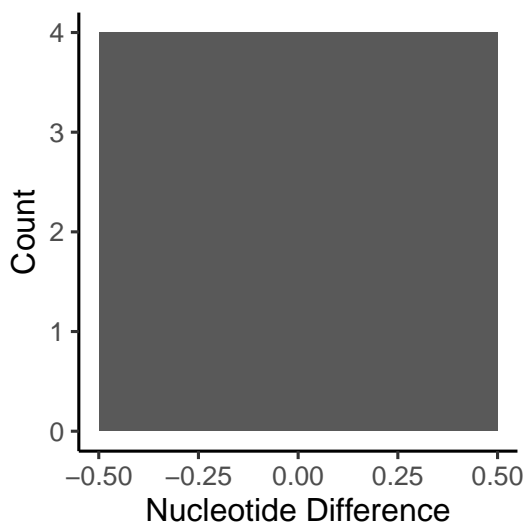
IGHV3-49*03_05

201 sequences assigned
194 (96.5%) exact matches, in which:
190 unique CDR3
6 unique J



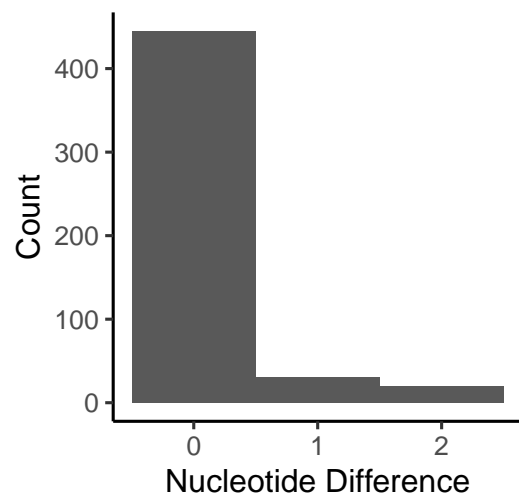
IGHV3-66*03

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



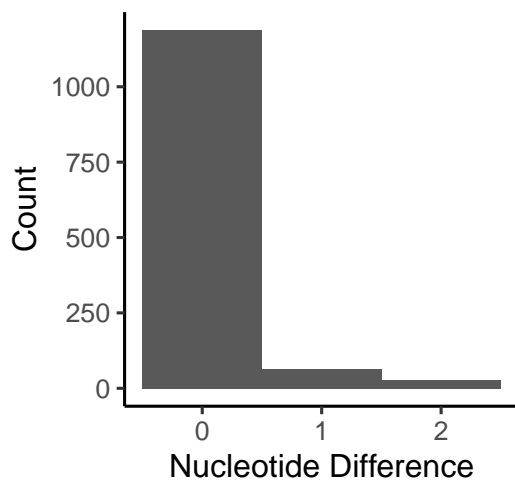
IGHV3-74*01_02

495 sequences assigned
445 (89.9%) exact matches, in which:
425 unique CDR3
6 unique J



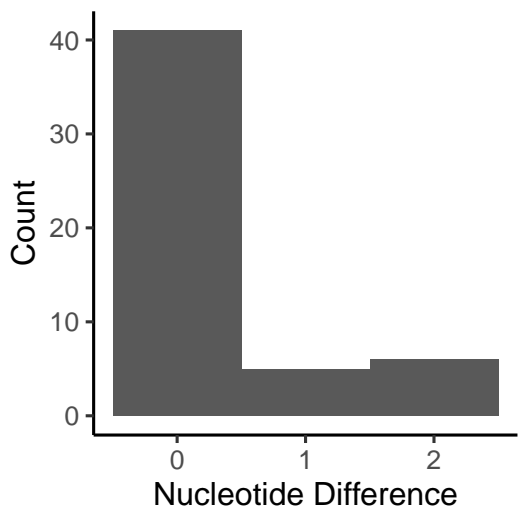
IGHV3-53*01_02

1279 sequences assigned
1188 (92.9%) exact matches, in which:
1097 unique CDR3
6 unique J



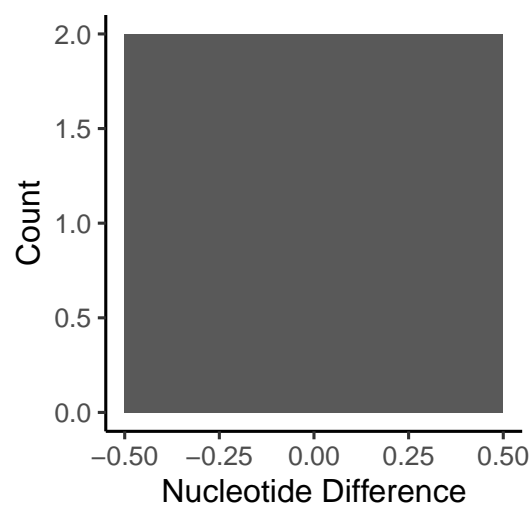
IGHV3-72*01

52 sequences assigned
41 (78.8%) exact matches, in which:
39 unique CDR3
5 unique J



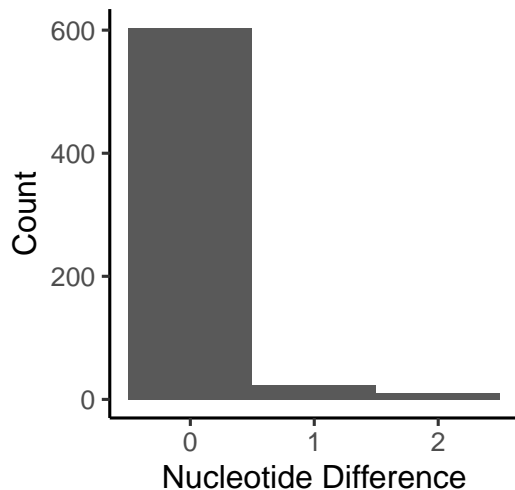
IGHV3-64D*06

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



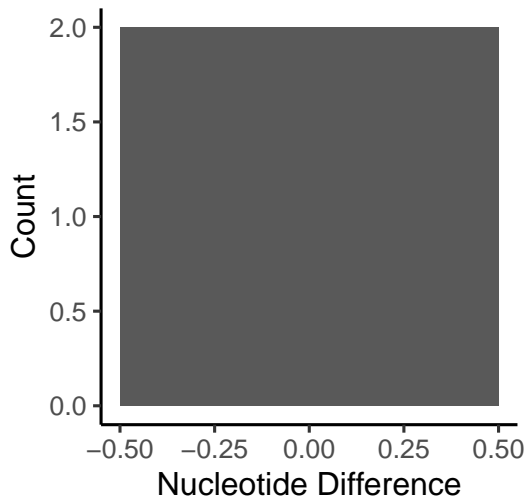
IGHV4-4*07

639 sequences assigned
604 (94.5%) exact matches, in which:
576 unique CDR3
6 unique J



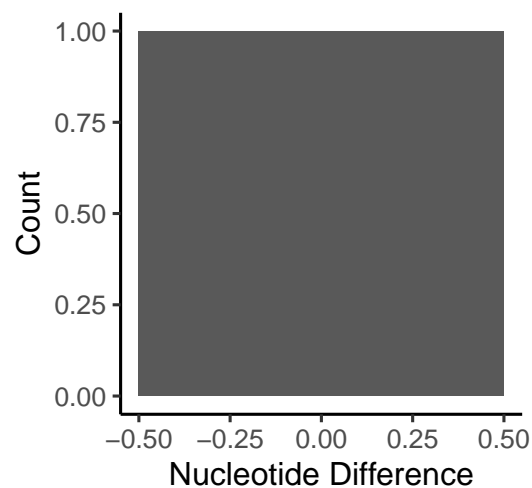
IGHV4-28*02_05

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



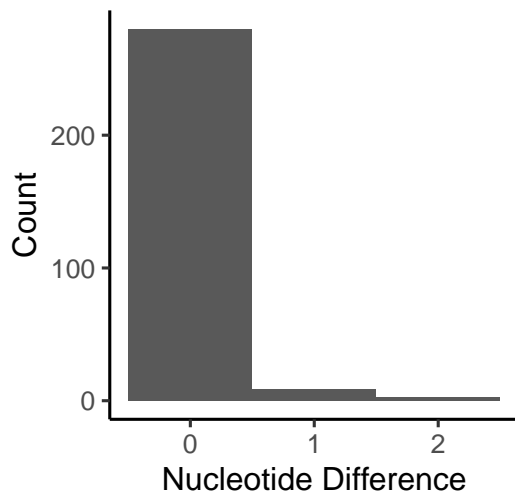
IGHV4-38-2*02

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



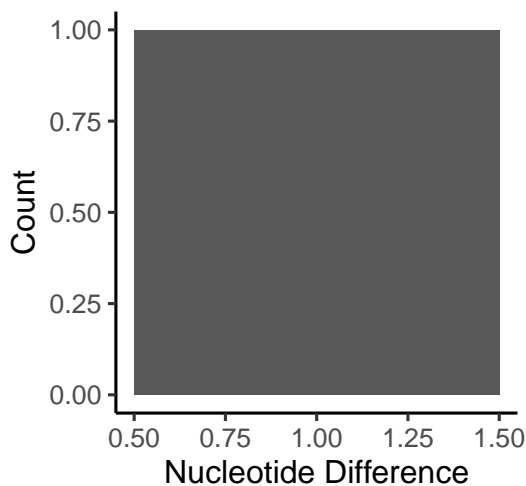
IGHV4-4*02_03

292 sequences assigned
280 (95.9%) exact matches, in which:
275 unique CDR3
6 unique J



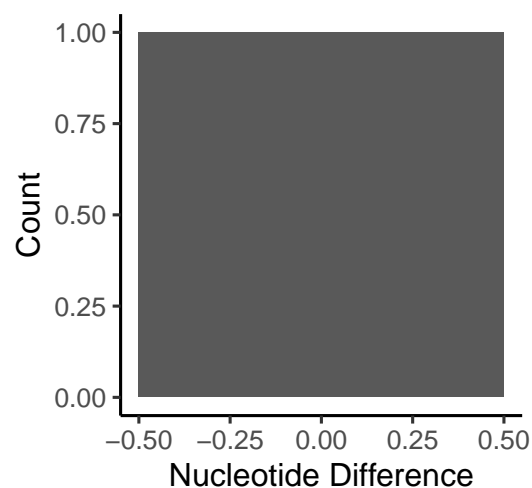
IGHV4-31*02

1 sequences assigned
No exact matches.



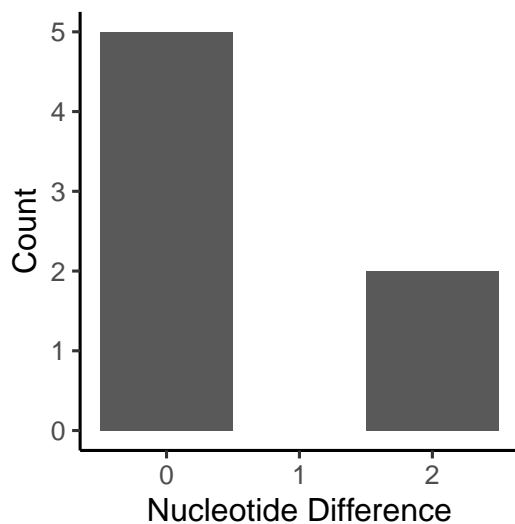
IGHV4-39*07

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



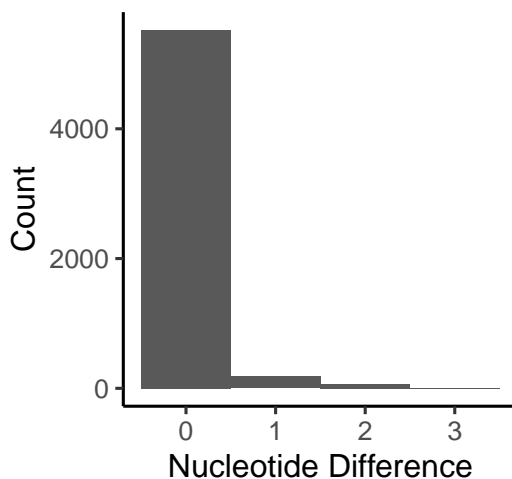
IGHV4-28*01_07

7 sequences assigned
5 (71.4%) exact matches, in which:
5 unique CDR3
4 unique J



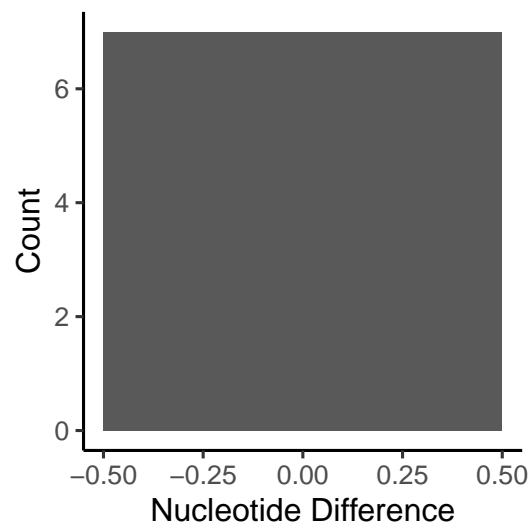
IGHV4-34*01_02

5772 sequences assigned
5522 (95.7%) exact matches, in which:
5211 unique CDR3
6 unique J



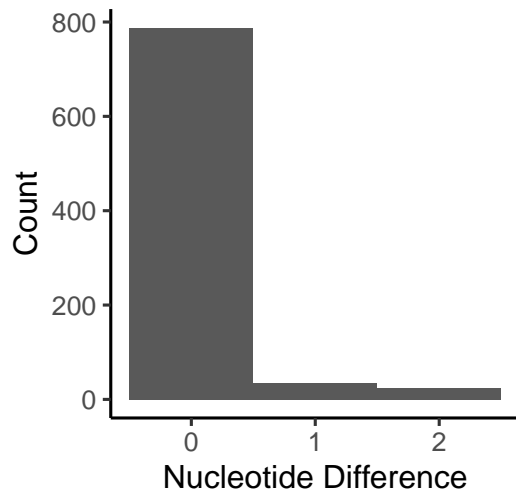
IGHV4-59*01_07

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



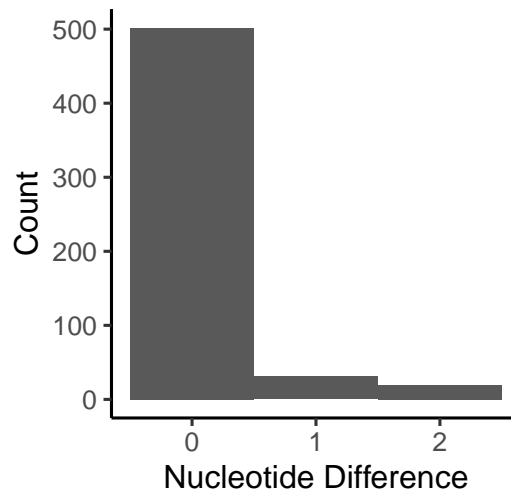
IGHV4–61*01

847 sequences assigned
788 (93%) exact matches, in which:
743 unique CDR3
6 unique J



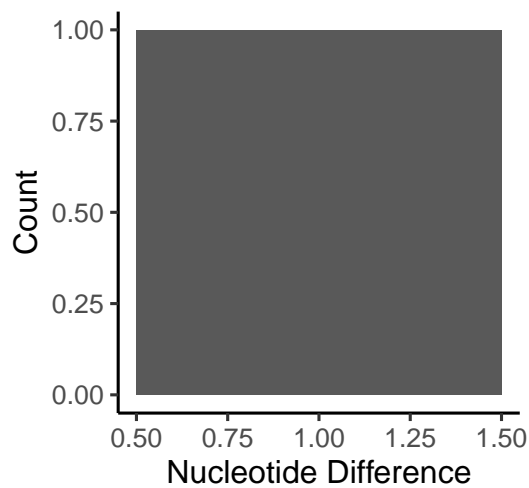
IGHV6–1*01_02

553 sequences assigned
502 (90.8%) exact matches, in which:
497 unique CDR3
6 unique J



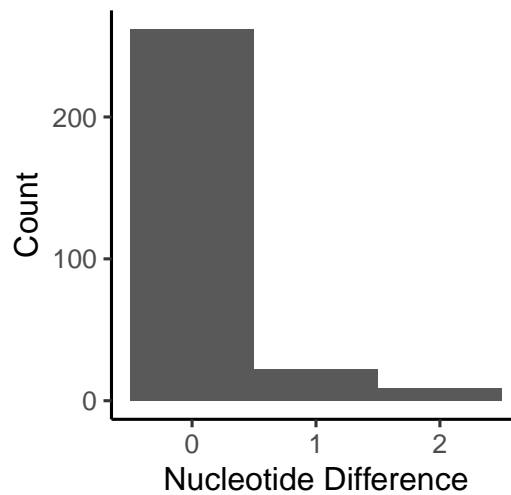
IGHV5–51*04

1 sequences assigned
No exact matches.



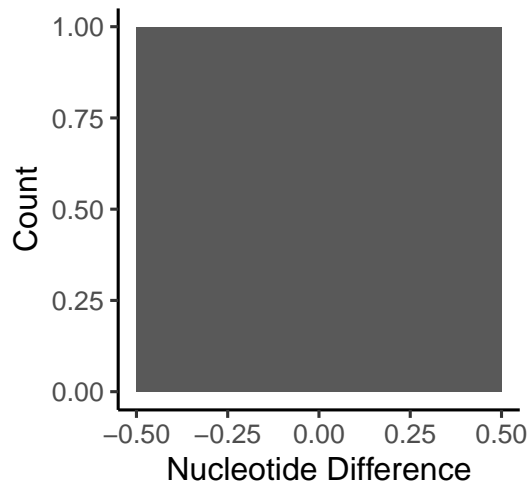
IGHV7–4–1*02

293 sequences assigned
262 (89.4%) exact matches, in which:
255 unique CDR3
6 unique J



IGHV5–51*01_03

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





Warning – no inferred sequences found.