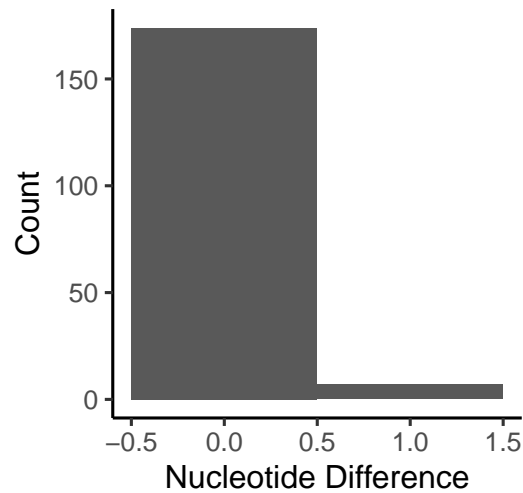


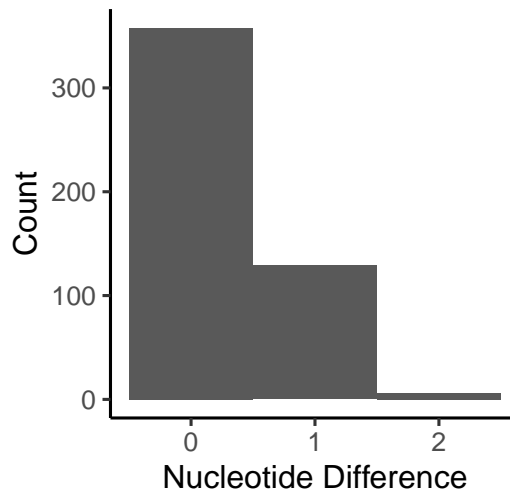
IGHV1–2*04

181 sequences assigned
174 (96.1%) exact matches, in which:
174 unique CDR3
6 unique J



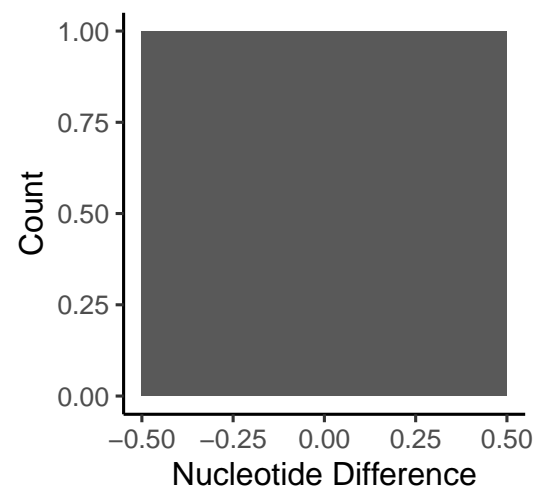
IGHV1–18*01

493 sequences assigned
358 (72.6%) exact matches, in which:
317 unique CDR3
6 unique J



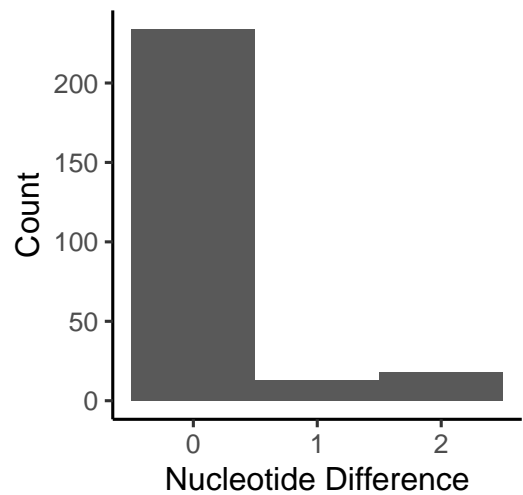
IGHV1–45*02

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



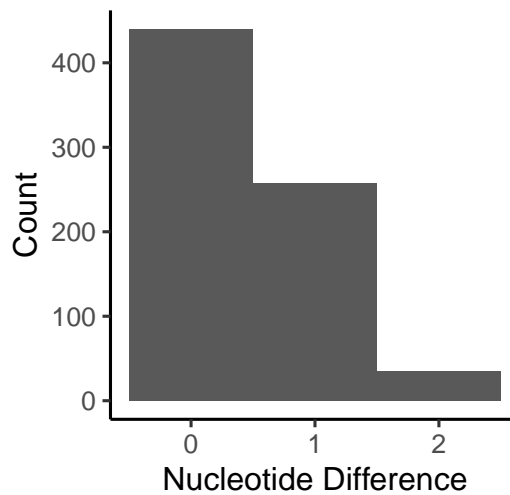
IGHV1–3*01_05

265 sequences assigned
234 (88.3%) exact matches, in which:
231 unique CDR3
6 unique J



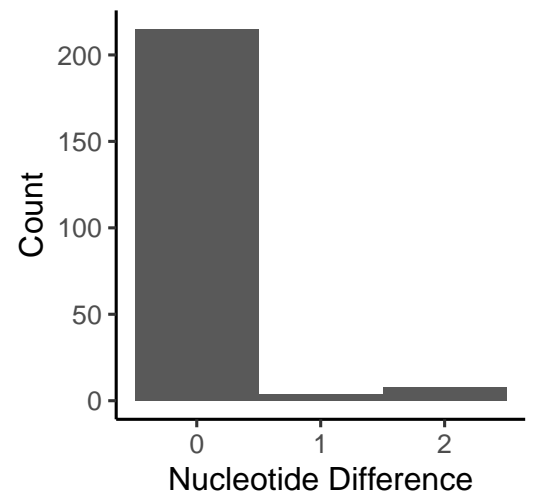
IGHV1–18*04

733 sequences assigned
440 (60%) exact matches, in which:
394 unique CDR3
6 unique J



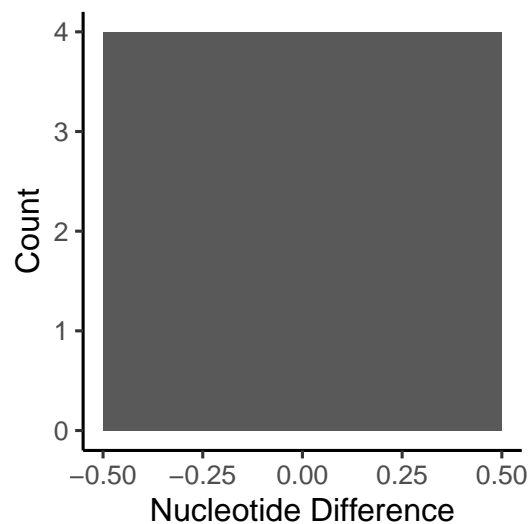
IGHV1–46*01

227 sequences assigned
215 (94.7%) exact matches, in which:
214 unique CDR3
6 unique J



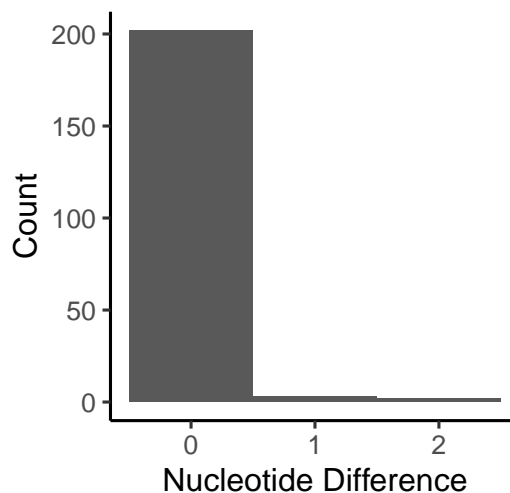
IGHV1–8*01

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



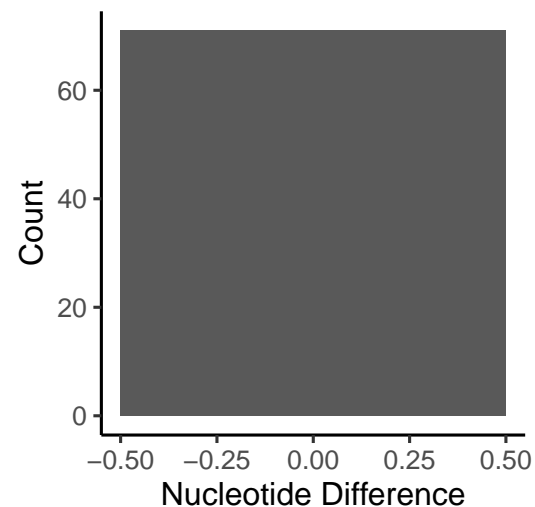
IGHV1–24*01

207 sequences assigned
202 (97.6%) exact matches, in which:
201 unique CDR3
6 unique J



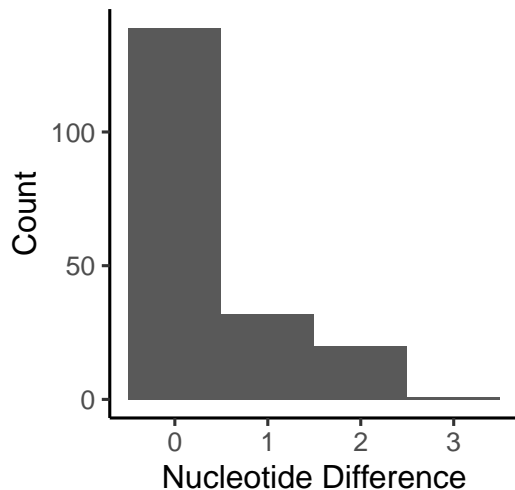
IGHV1–58*01_03

71 sequences assigned
71 (100%) exact matches, in which:
71 unique CDR3
6 unique J



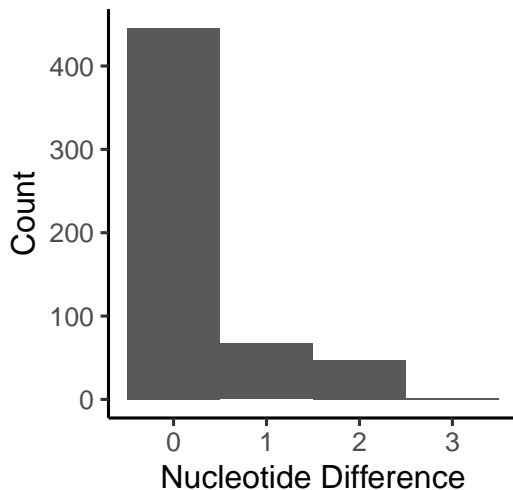
IGHV2–5*02

192 sequences assigned
139 (72.4%) exact matches, in which:
135 unique CDR3
5 unique J



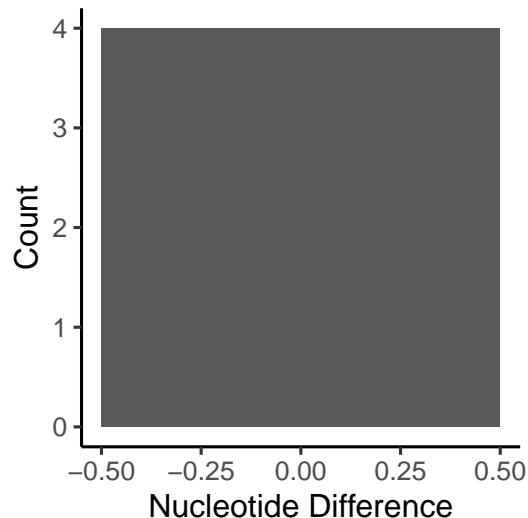
IGHV3–7*03

562 sequences assigned
446 (79.4%) exact matches, in which:
386 unique CDR3
6 unique J



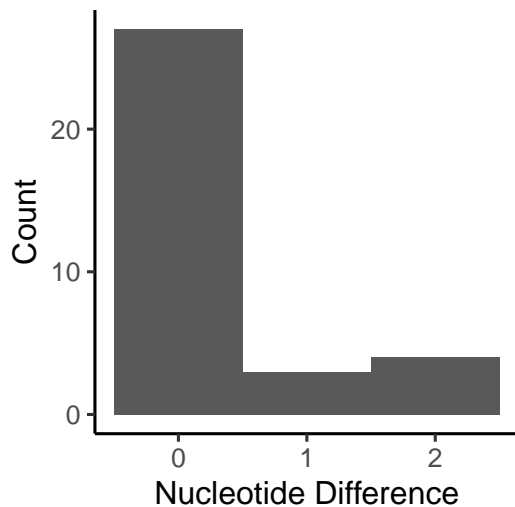
IGHV3–13*05

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



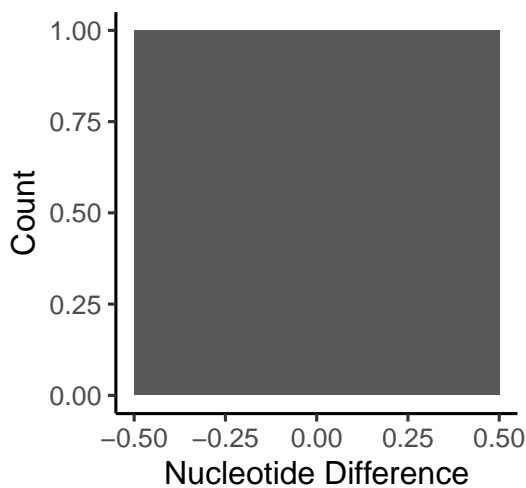
IGHV2–26*01

34 sequences assigned
27 (79.4%) exact matches, in which:
27 unique CDR3
4 unique J



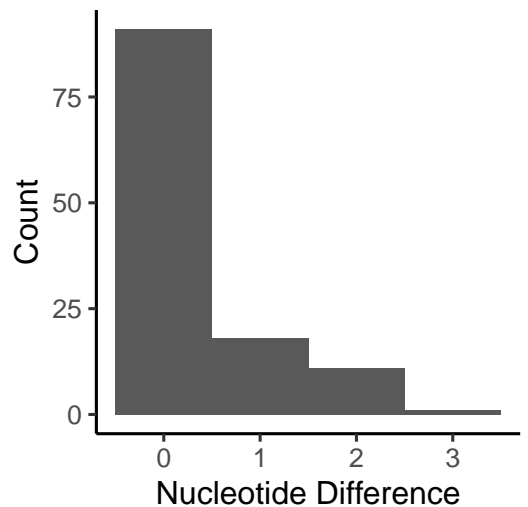
IGHV3–9*01

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



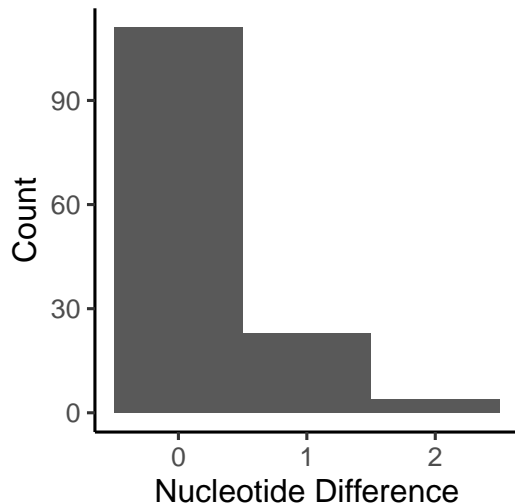
IGHV3–15*01_02

121 sequences assigned
91 (75.2%) exact matches, in which:
70 unique CDR3
5 unique J



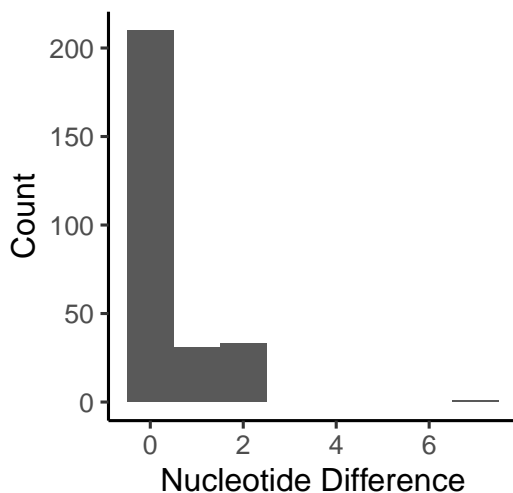
IGHV2–70*01

138 sequences assigned
111 (80.4%) exact matches, in which:
94 unique CDR3
5 unique J



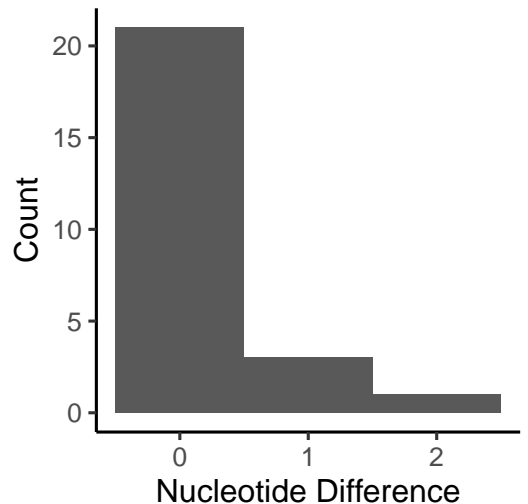
IGHV3–11*06

275 sequences assigned
210 (76.4%) exact matches, in which:
180 unique CDR3
6 unique J



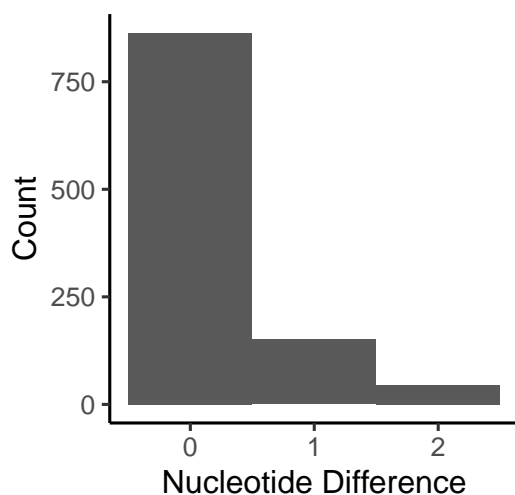
IGHV3–20*01_02

25 sequences assigned
21 (84%) exact matches, in which:
14 unique CDR3
4 unique J



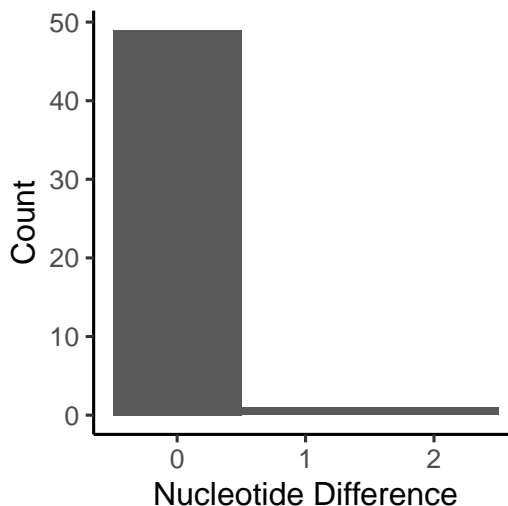
IGHV3-21*01_02

1061 sequences assigned
864 (81.4%) exact matches, in which:
681 unique CDR3
6 unique J



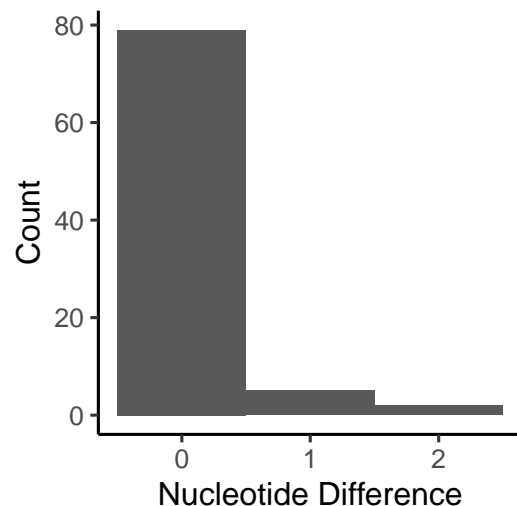
IGHV3-43*01

51 sequences assigned
49 (96.1%) exact matches, in which:
44 unique CDR3
5 unique J



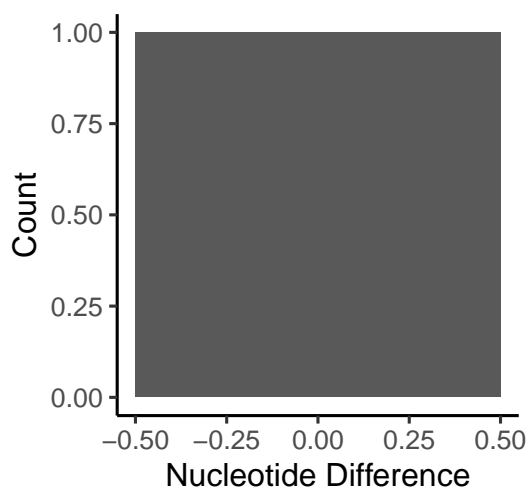
IGHV3-49*03_05

86 sequences assigned
79 (91.9%) exact matches, in which:
76 unique CDR3
5 unique J



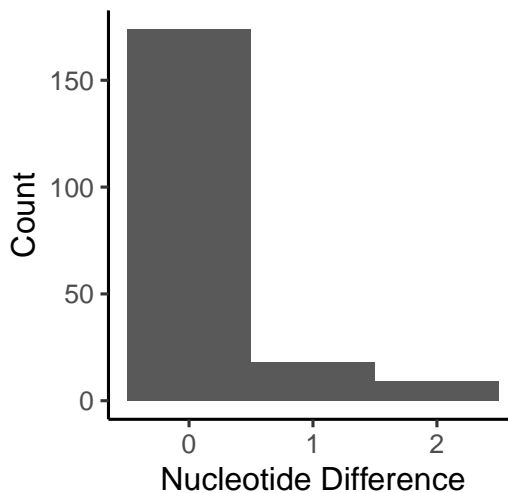
IGHV3-30-3*01

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



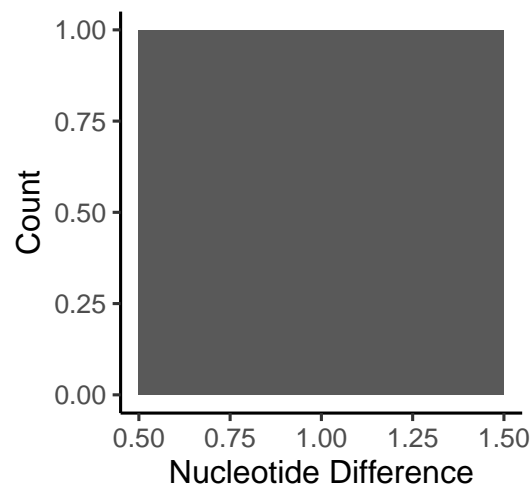
IGHV3-48*02

201 sequences assigned
174 (86.6%) exact matches, in which:
131 unique CDR3
6 unique J



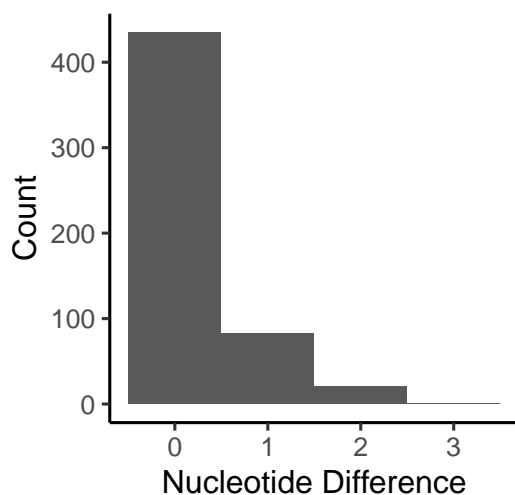
IGHV3-52*01_03

1 sequences assigned
No exact matches.



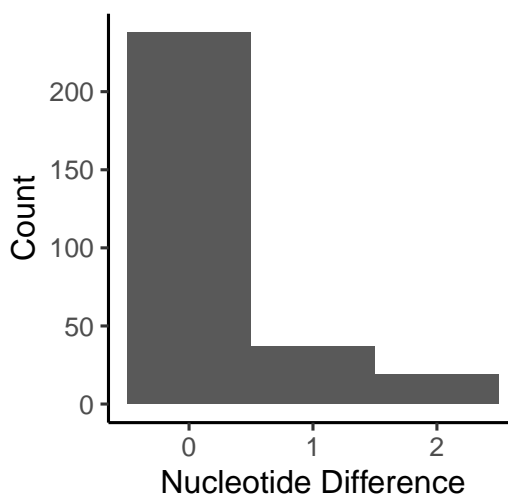
IGHV3-33*01

540 sequences assigned
435 (80.6%) exact matches, in which:
359 unique CDR3
6 unique J



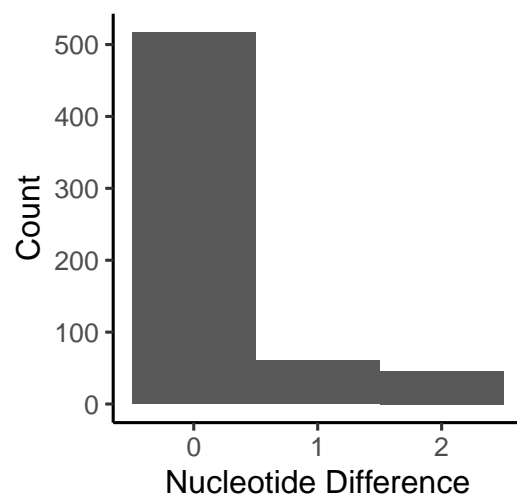
IGHV3-48*04

294 sequences assigned
238 (81%) exact matches, in which:
202 unique CDR3
5 unique J



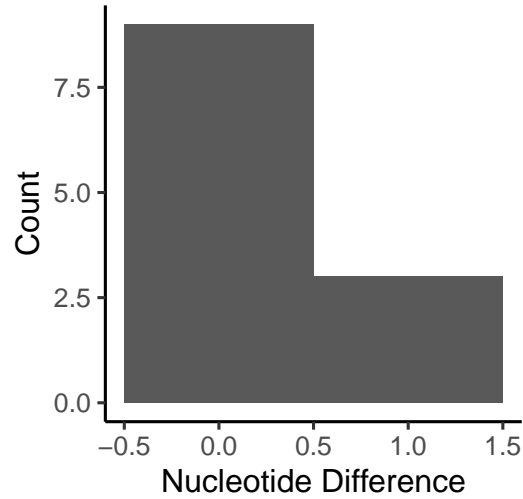
IGHV3-53*01_02

624 sequences assigned
517 (82.9%) exact matches, in which:
456 unique CDR3
6 unique J



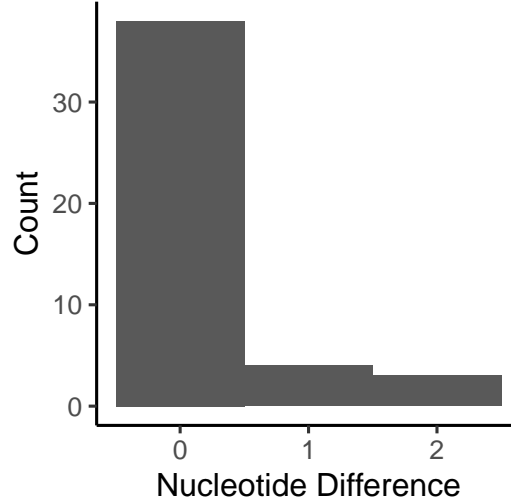
IGHV3–64*02_07

12 sequences assigned
9 (75%) exact matches, in which:
6 unique CDR3
2 unique J



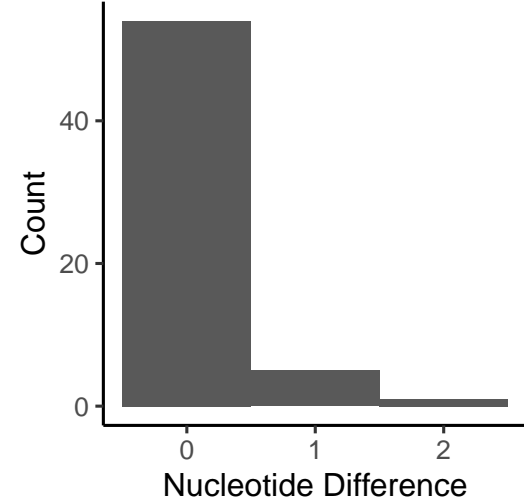
IGHV3–73*01_02

45 sequences assigned
38 (84.4%) exact matches, in which:
28 unique CDR3
3 unique J



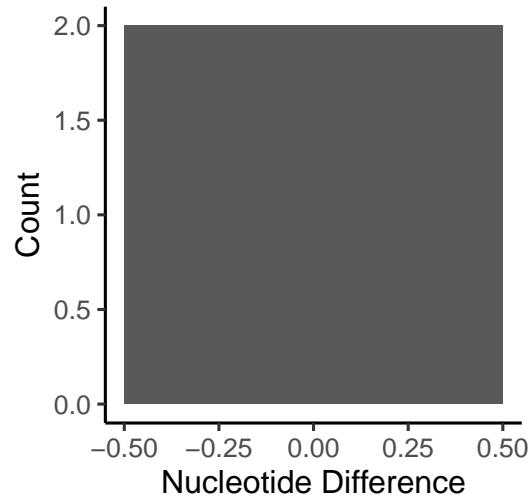
IGHV3–64D*08

60 sequences assigned
54 (90%) exact matches, in which:
50 unique CDR3
5 unique J



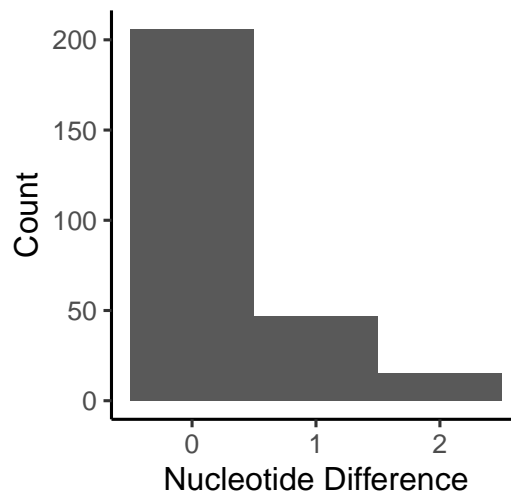
IGHV3–66*03

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



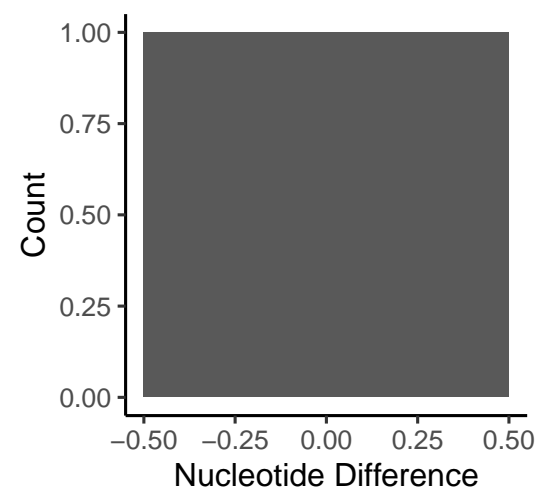
IGHV3–74*01_02

268 sequences assigned
206 (76.9%) exact matches, in which:
165 unique CDR3
6 unique J



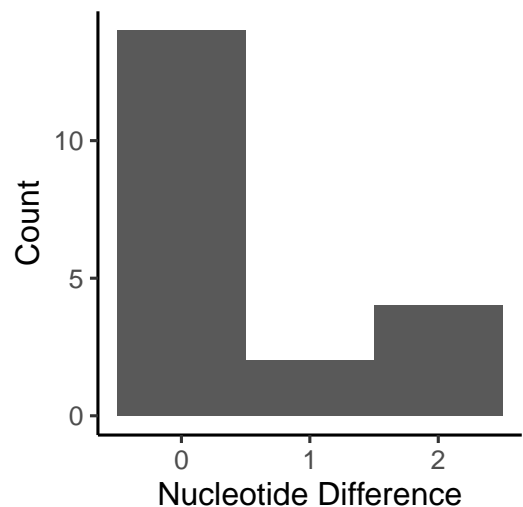
IGHV4–28*01_07

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



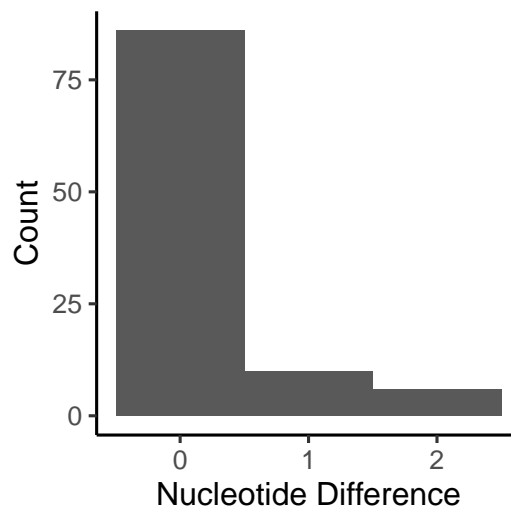
IGHV3–72*01

20 sequences assigned
14 (70%) exact matches, in which:
13 unique CDR3
4 unique J



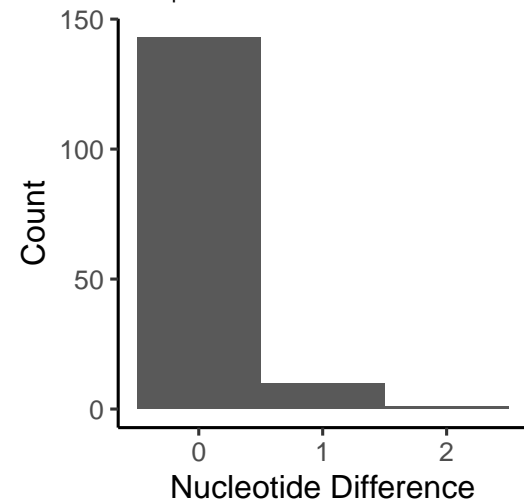
IGHV3–64D*06

102 sequences assigned
86 (84.3%) exact matches, in which:
73 unique CDR3
5 unique J



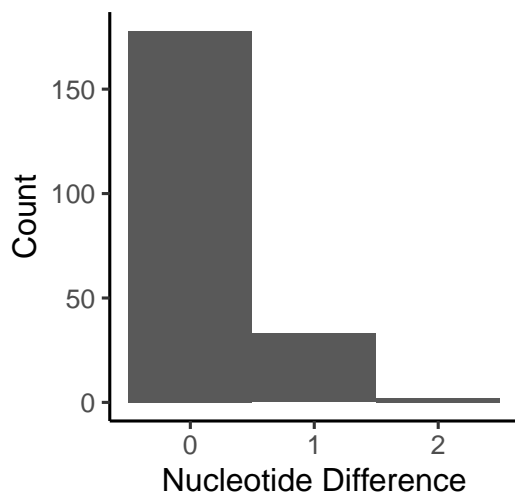
IGHV4–30–2*01

154 sequences assigned
143 (92.9%) exact matches, in which:
127 unique CDR3
5 unique J



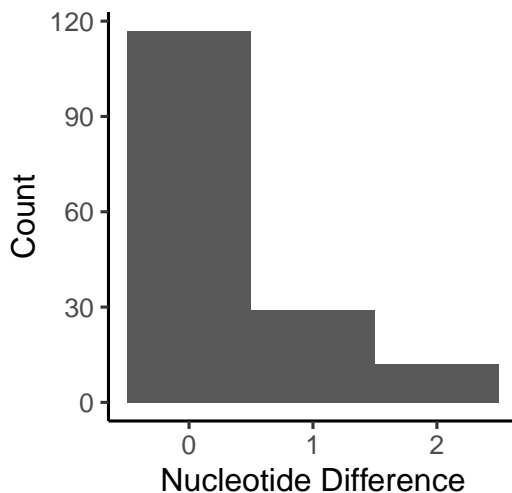
IGHV4-31*03_04

213 sequences assigned
178 (83.6%) exact matches, in which:
151 unique CDR3
6 unique J



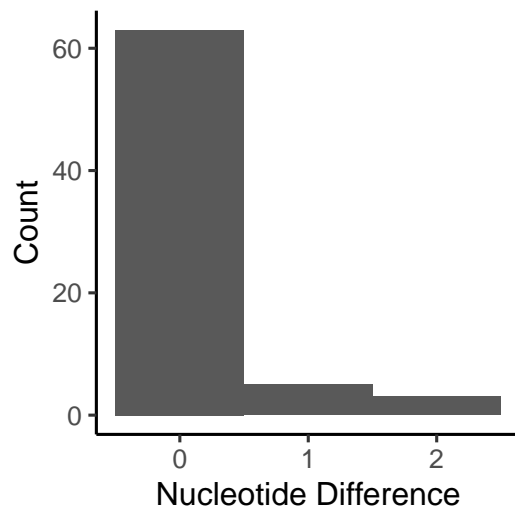
IGHV4-39*01_05

158 sequences assigned
117 (74.1%) exact matches, in which:
107 unique CDR3
5 unique J



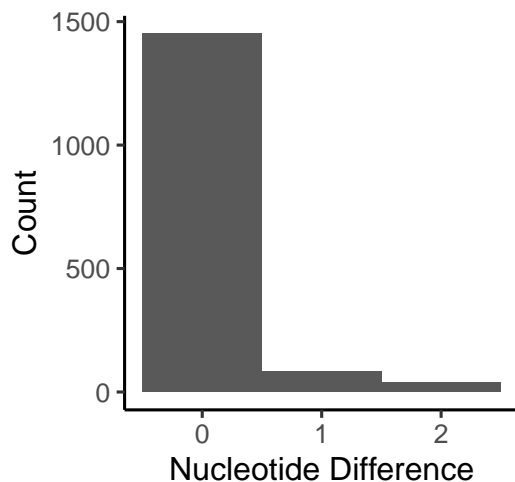
IGHV5-10-1*01_03

71 sequences assigned
63 (88.7%) exact matches, in which:
63 unique CDR3
6 unique J



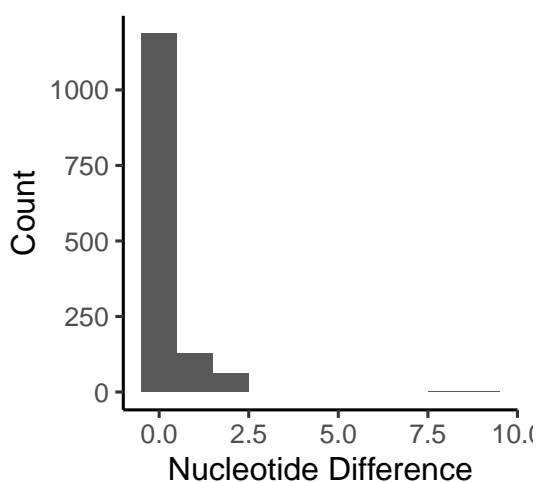
IGHV4-34*01_02

1575 sequences assigned
1451 (92.1%) exact matches, in which:
1397 unique CDR3
6 unique J



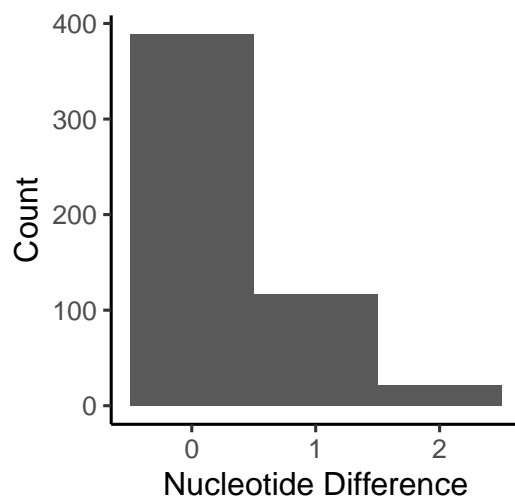
IGHV4-59*01_07

1377 sequences assigned
1186 (86.1%) exact matches, in which:
1121 unique CDR3
6 unique J



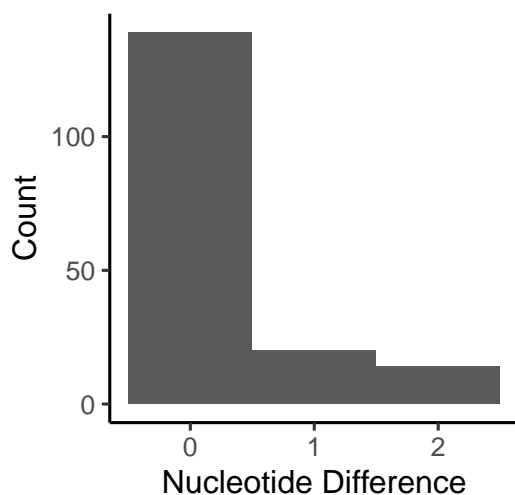
IGHV5-51*01_03

527 sequences assigned
389 (73.8%) exact matches, in which:
367 unique CDR3
6 unique J



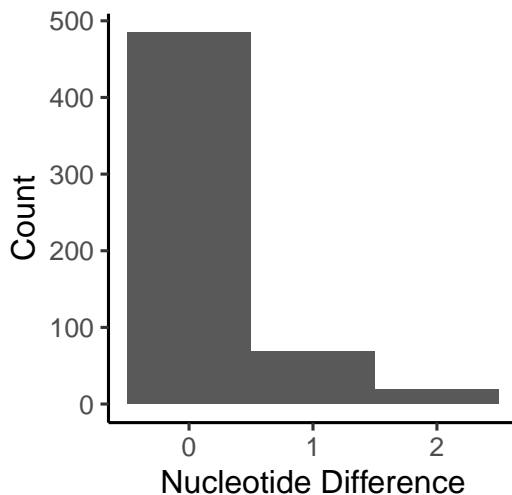
IGHV4-39*07

173 sequences assigned
139 (80.3%) exact matches, in which:
126 unique CDR3
6 unique J



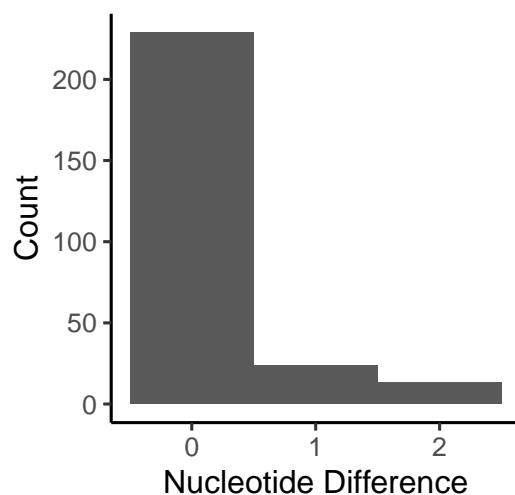
IGHV4-61*01

573 sequences assigned
485 (84.6%) exact matches, in which:
443 unique CDR3
6 unique J



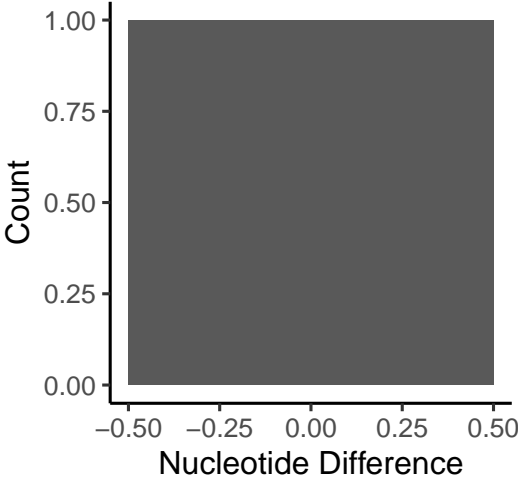
IGHV6-1*01_02

266 sequences assigned
229 (86.1%) exact matches, in which:
227 unique CDR3
6 unique J



IGHV7-4-1*02

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





Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-59*02_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV3-11*06_T300CIGHV4-38-2*02_A70GIGHV4-39*02_C258GIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-39*02_C258GIGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

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

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.