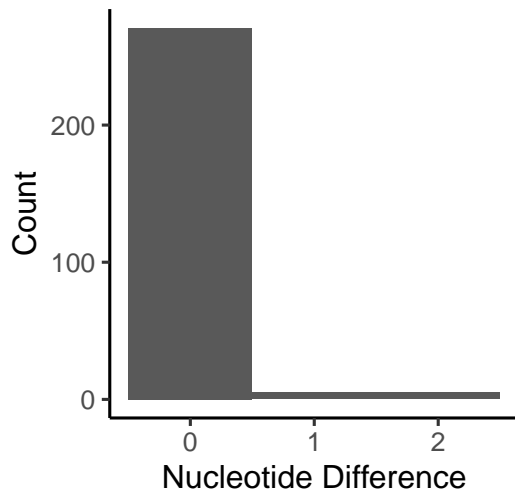


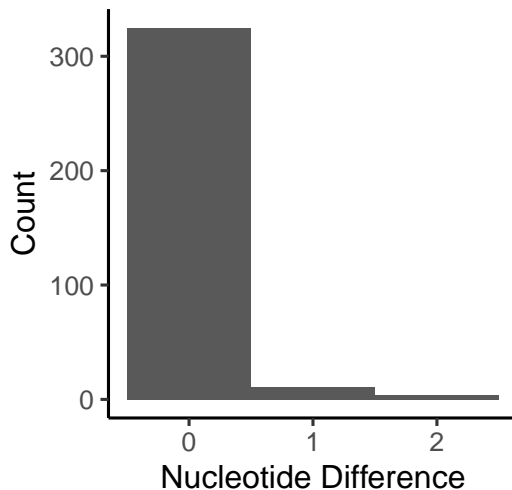
IGHV1–2*04

281 sequences assigned
271 (96.4%) exact matches, in which:
271 unique CDR3
5 unique J



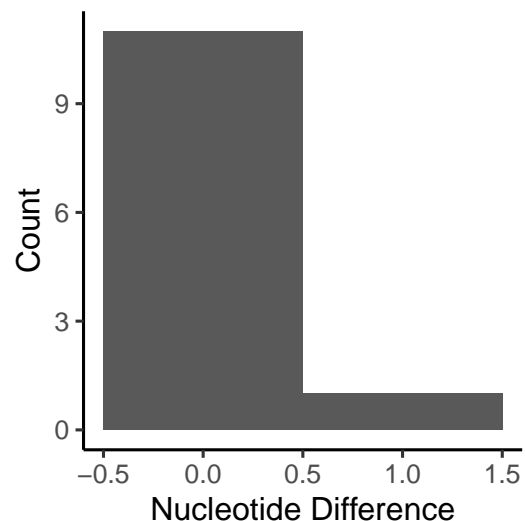
IGHV1–24*01

340 sequences assigned
325 (95.6%) exact matches, in which:
325 unique CDR3
6 unique J



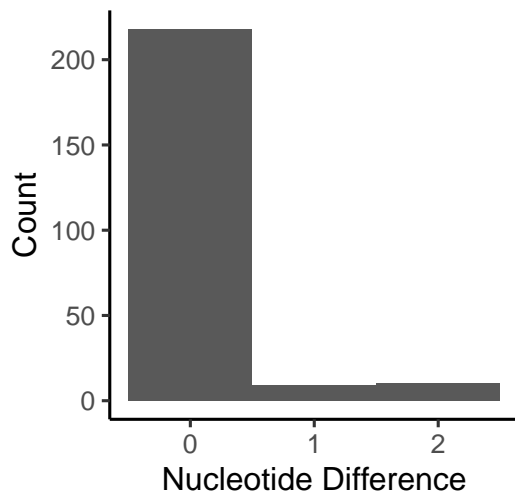
IGHV1–58*02

12 sequences assigned
11 (91.7%) exact matches, in which:
11 unique CDR3
3 unique J



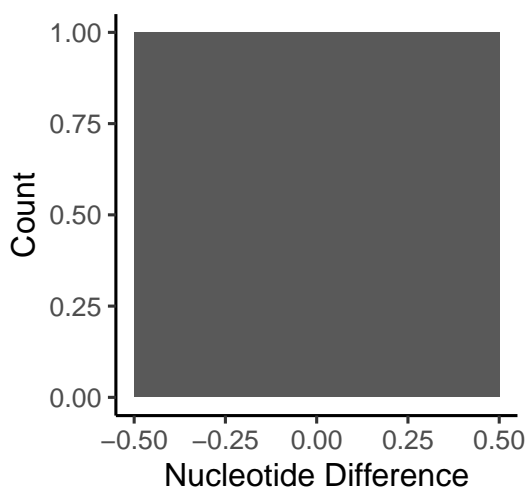
IGHV1–3*01_05

237 sequences assigned
218 (92%) exact matches, in which:
218 unique CDR3
6 unique J



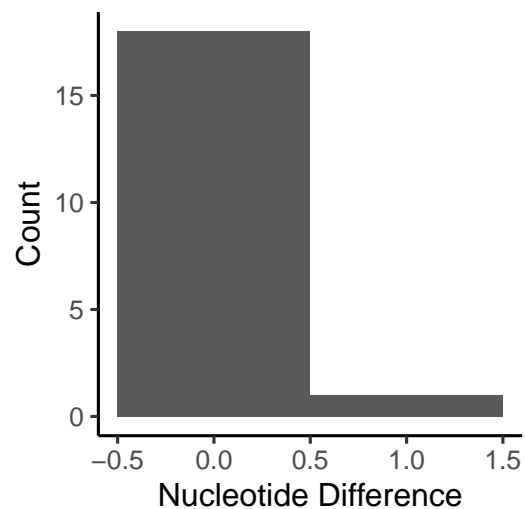
IGHV1–45*02

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



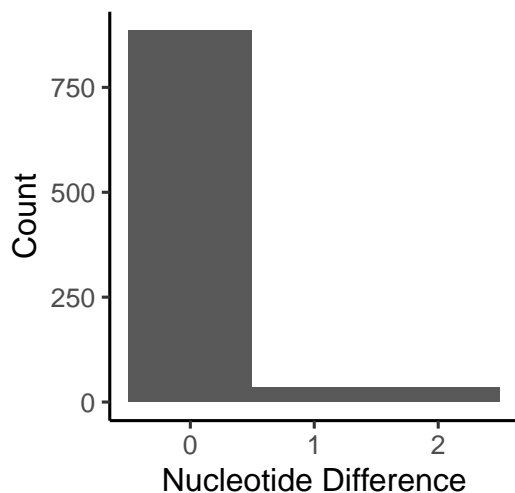
IGHV1–58*01_03

19 sequences assigned
18 (94.7%) exact matches, in which:
18 unique CDR3
4 unique J



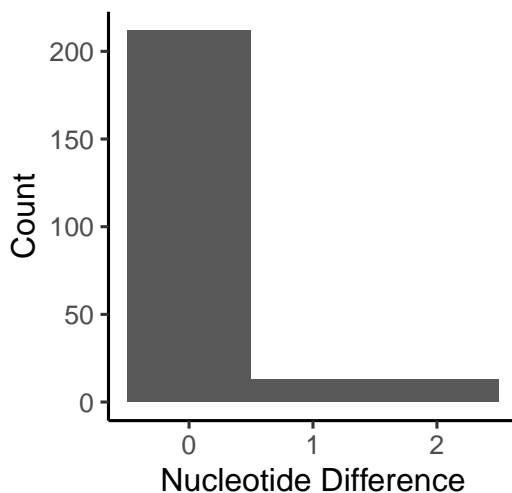
IGHV1–18*04

955 sequences assigned
886 (92.8%) exact matches, in which:
885 unique CDR3
6 unique J



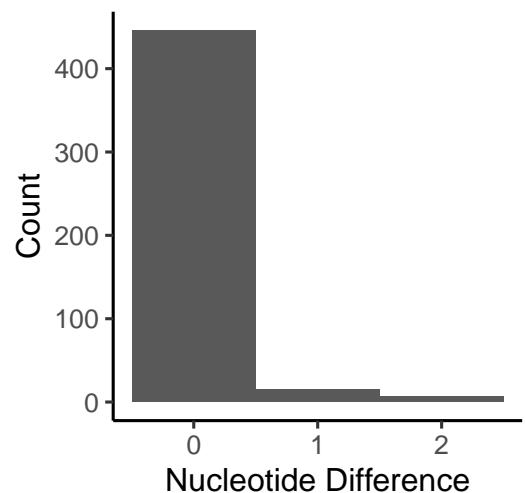
IGHV1–46*01

238 sequences assigned
212 (89.1%) exact matches, in which:
212 unique CDR3
6 unique J



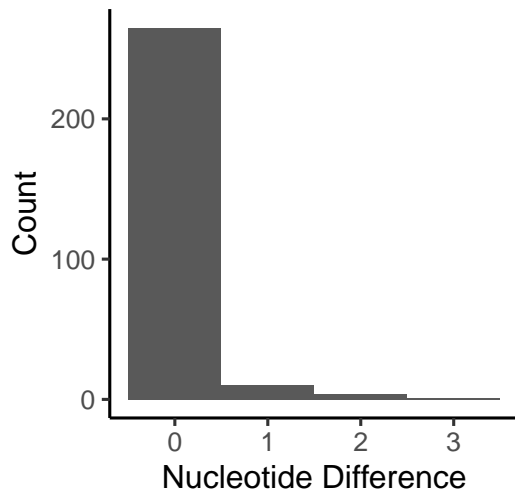
IGHV1–69*01_12_13

468 sequences assigned
446 (95.3%) exact matches, in which:
446 unique CDR3
6 unique J



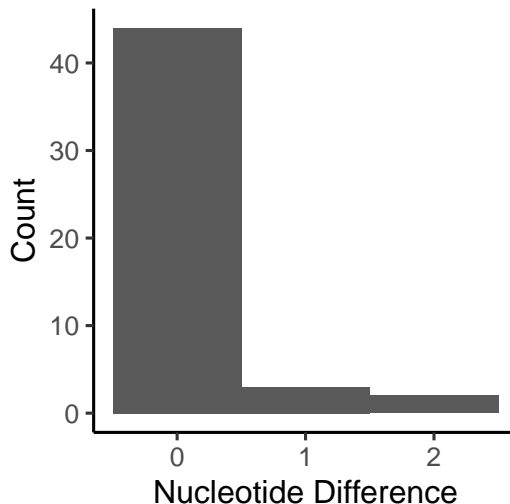
IGHV1–69*04_09

280 sequences assigned
265 (94.6%) exact matches, in which:
265 unique CDR3
6 unique J



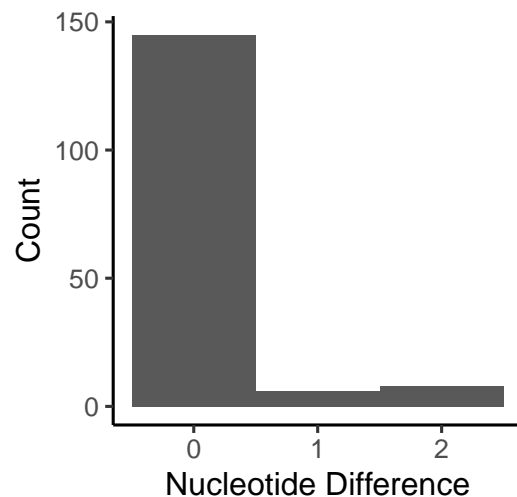
IGHV2–70*01

49 sequences assigned
44 (89.8%) exact matches, in which:
44 unique CDR3
6 unique J



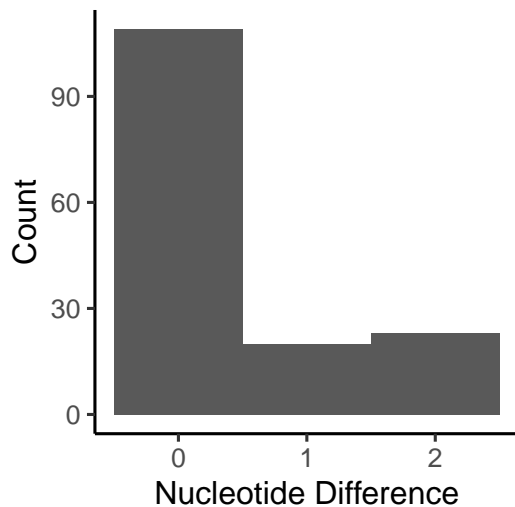
IGHV3–11*06

159 sequences assigned
145 (91.2%) exact matches, in which:
145 unique CDR3
6 unique J



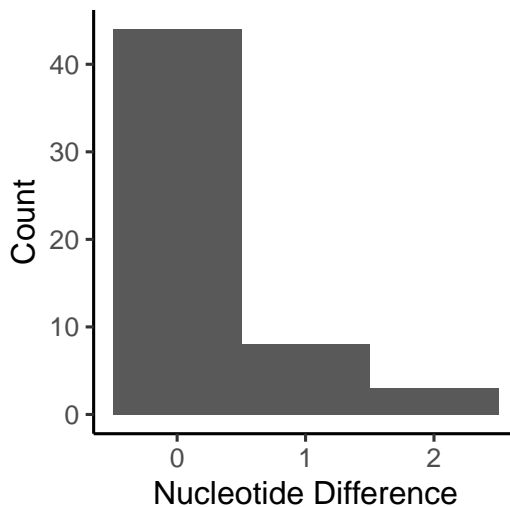
IGHV2–5*02

152 sequences assigned
109 (71.7%) exact matches, in which:
107 unique CDR3
6 unique J



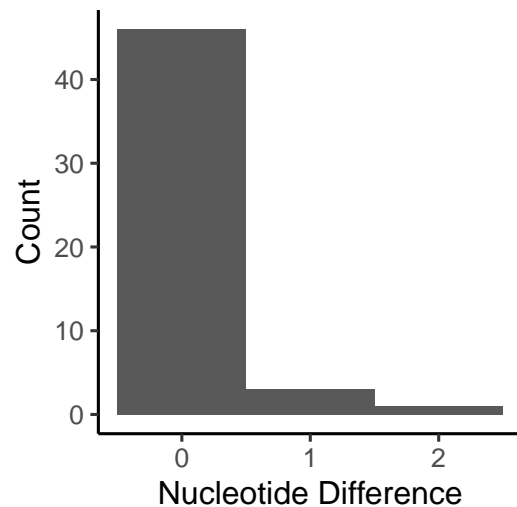
IGHV2–70*11_15

55 sequences assigned
44 (80%) exact matches, in which:
44 unique CDR3
5 unique J



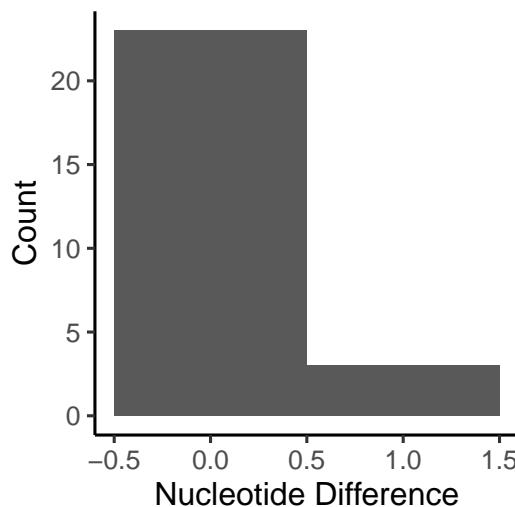
IGHV3–13*05

50 sequences assigned
46 (92%) exact matches, in which:
44 unique CDR3
5 unique J



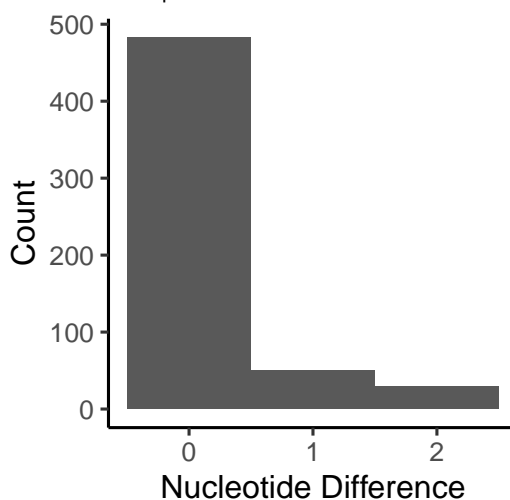
IGHV2–26*01

26 sequences assigned
23 (88.5%) exact matches, in which:
23 unique CDR3
5 unique J



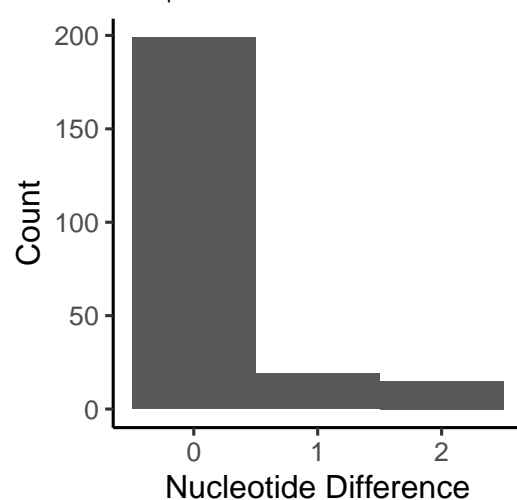
IGHV3–7*03

562 sequences assigned
483 (85.9%) exact matches, in which:
477 unique CDR3
6 unique J



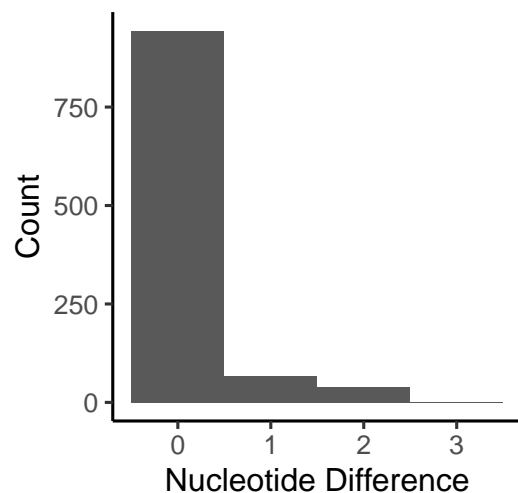
IGHV3–15*01_02

233 sequences assigned
199 (85.4%) exact matches, in which:
194 unique CDR3
6 unique J



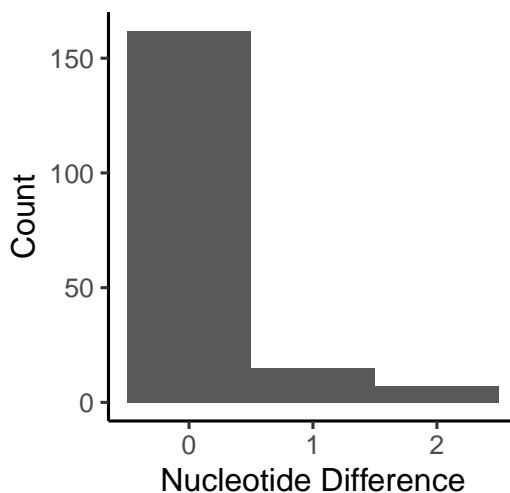
IGHV3–21*01_02

1053 sequences assigned
944 (89.6%) exact matches, in which:
928 unique CDR3
6 unique J



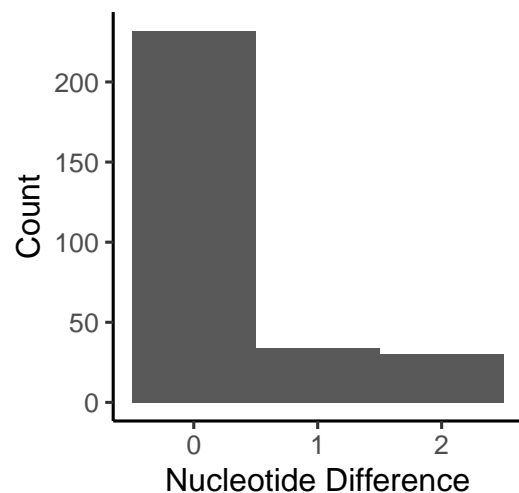
IGHV3–33*01

184 sequences assigned
162 (88%) exact matches, in which:
159 unique CDR3
6 unique J



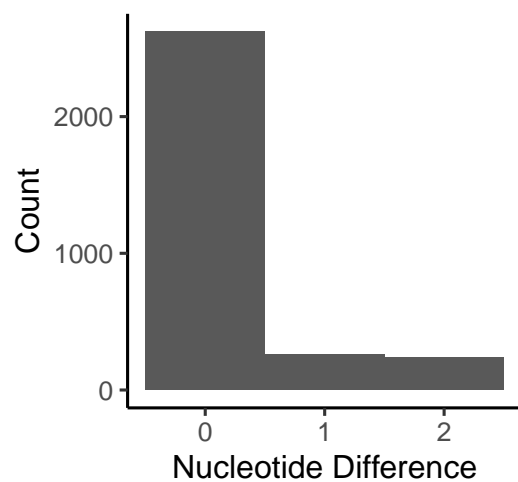
IGHV3–48*02

296 sequences assigned
232 (78.4%) exact matches, in which:
229 unique CDR3
6 unique J



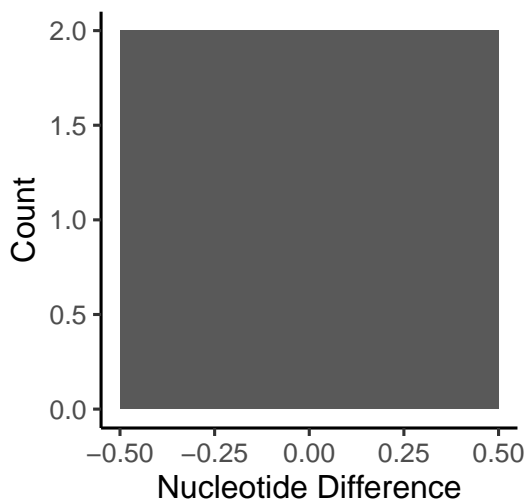
IGHV3–23*01_04

3117 sequences assigned
2621 (84.1%) exact matches, in which:
2569 unique CDR3
6 unique J



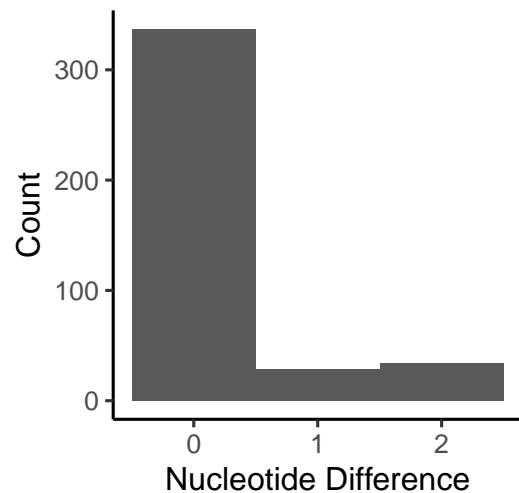
IGHV3–38–3*01

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



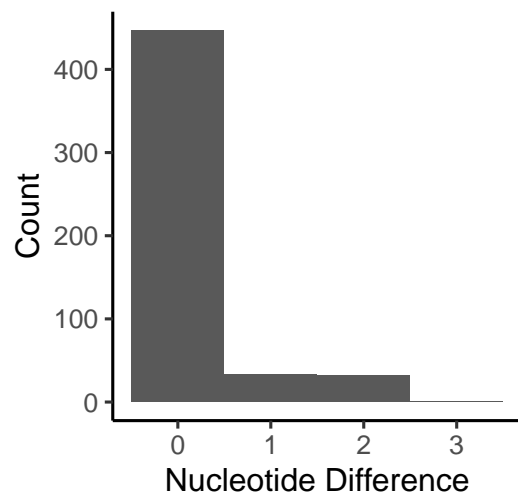
IGHV3–48*04

400 sequences assigned
337 (84.2%) exact matches, in which:
332 unique CDR3
6 unique J



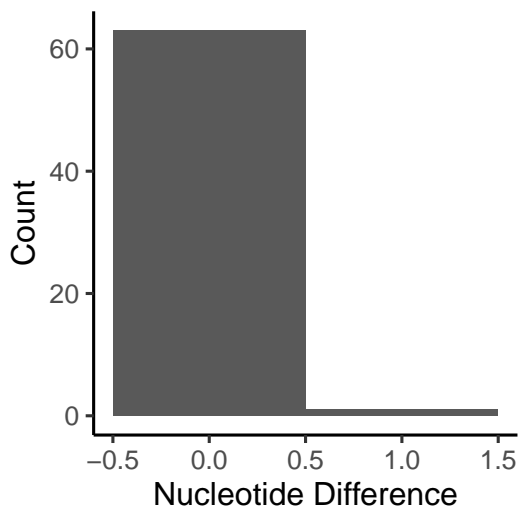
IGHV3–30–3*01

513 sequences assigned
447 (87.1%) exact matches, in which:
444 unique CDR3
6 unique J



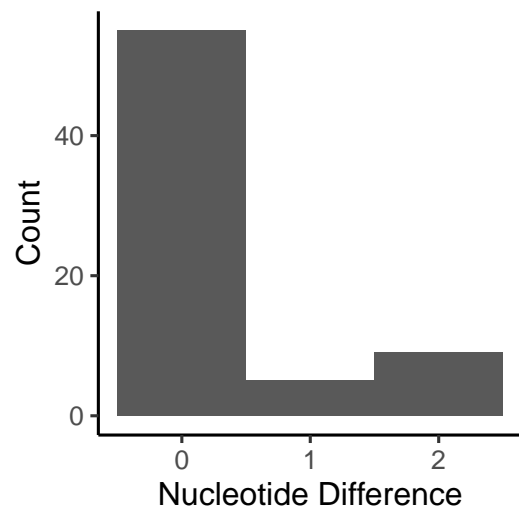
IGHV3–43*01

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



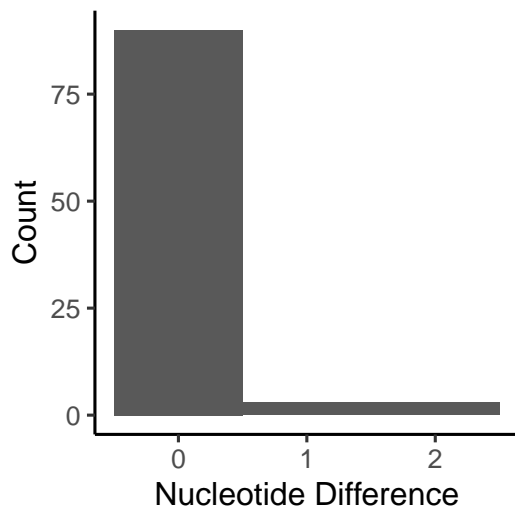
IGHV3–49*03_05

69 sequences assigned
55 (79.7%) exact matches, in which:
55 unique CDR3
5 unique J



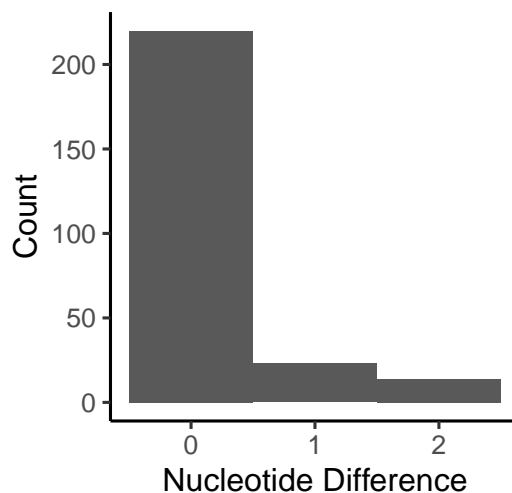
IGHV3-53*04

96 sequences assigned
90 (93.8%) exact matches, in which:
88 unique CDR3
6 unique J



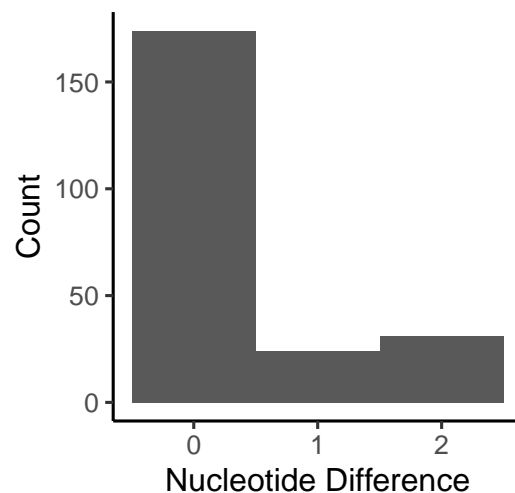
IGHV3-66*01

257 sequences assigned
220 (85.6%) exact matches, in which:
217 unique CDR3
6 unique J



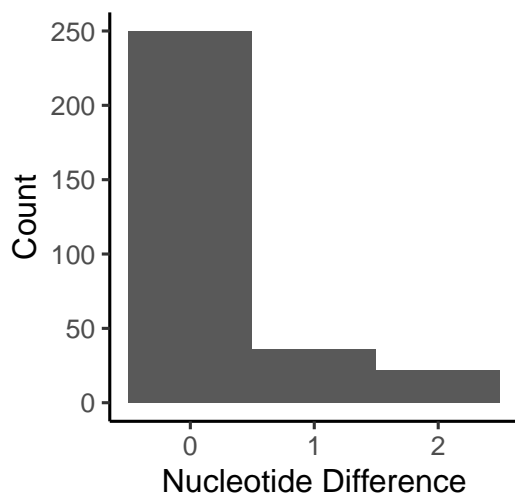
IGHV3-74*01_02

229 sequences assigned
174 (76%) exact matches, in which:
169 unique CDR3
6 unique J



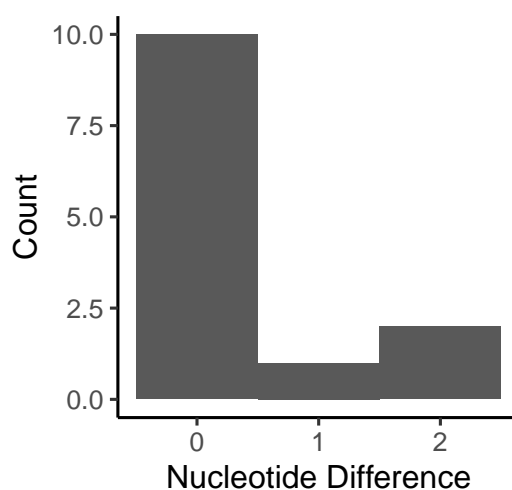
IGHV3-53*01_02

308 sequences assigned
250 (81.2%) exact matches, in which:
246 unique CDR3
6 unique J



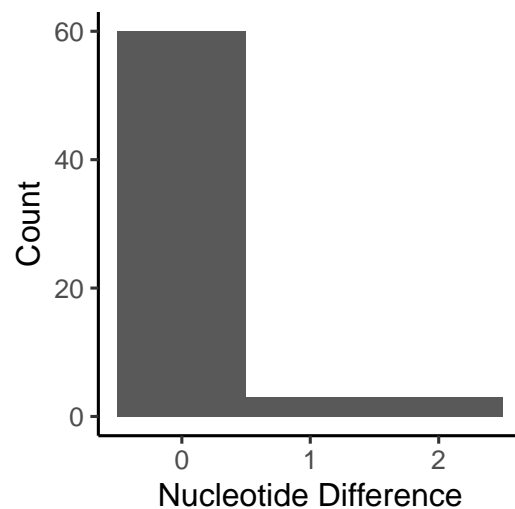
IGHV3-72*01

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
4 unique J



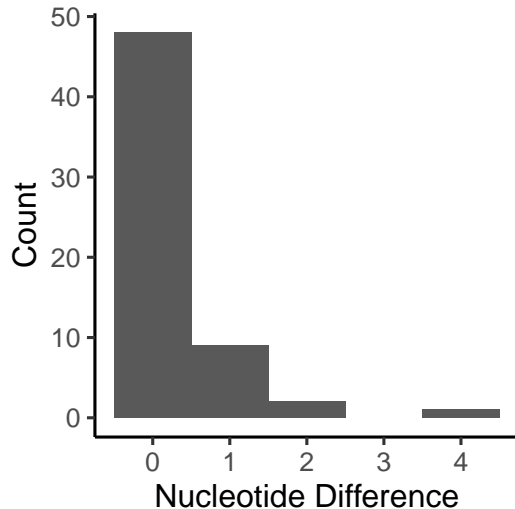
IGHV3-43D*03

66 sequences assigned
60 (90.9%) exact matches, in which:
60 unique CDR3
5 unique J



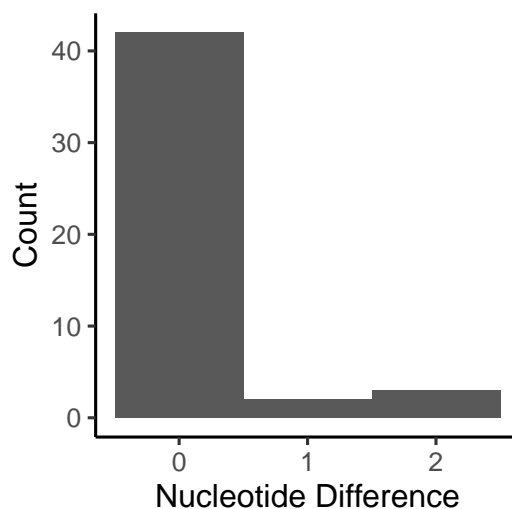
IGHV3-64*01

60 sequences assigned
48 (80%) exact matches, in which:
47 unique CDR3
5 unique J



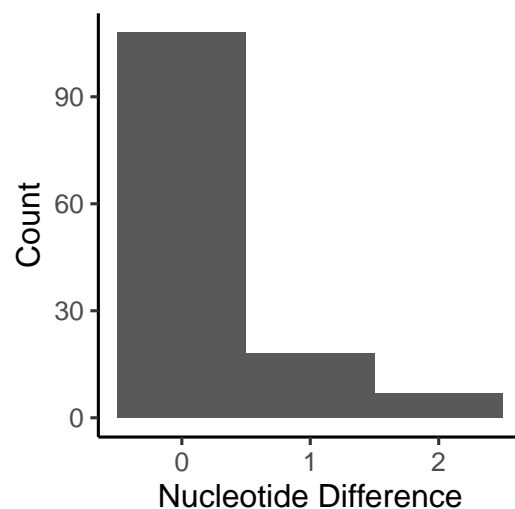
IGHV3-73*01_02

47 sequences assigned
42 (89.4%) exact matches, in which:
42 unique CDR3
4 unique J



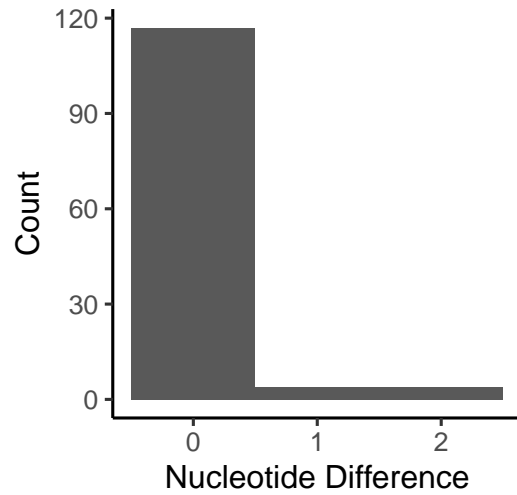
IGHV3-64D*06

133 sequences assigned
108 (81.2%) exact matches, in which:
107 unique CDR3
6 unique J



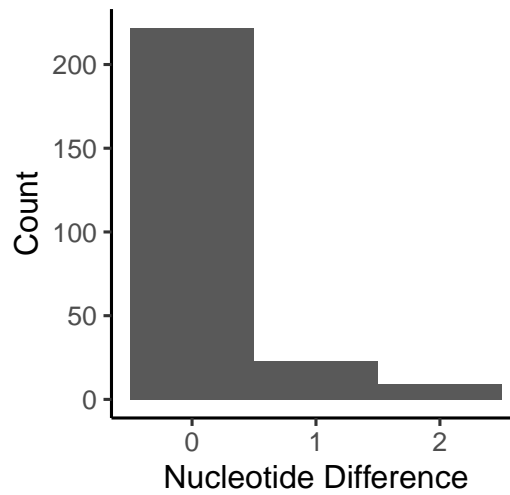
IGHV3–64D*09

125 sequences assigned
117 (93.6%) exact matches, in which:
117 unique CDR3
5 unique J



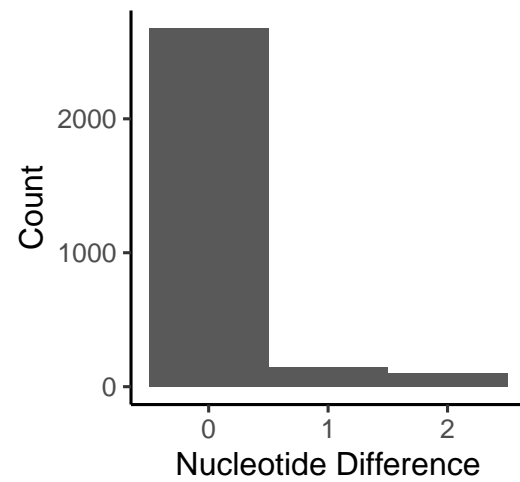
IGHV4–30–4*01

254 sequences assigned
222 (87.4%) exact matches, in which:
220 unique CDR3
6 unique J



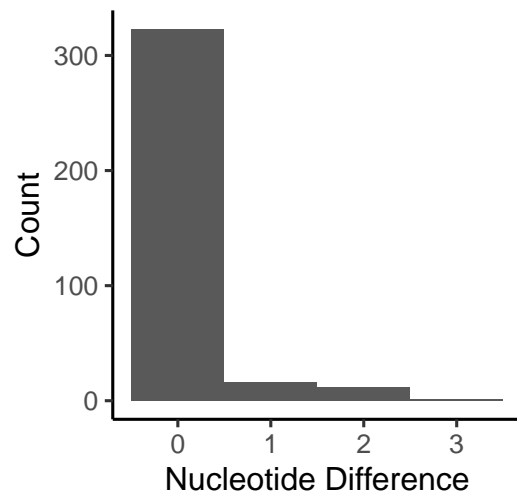
IGHV4–34*01_02

2926 sequences assigned
2675 (91.4%) exact matches, in which:
2630 unique CDR3
6 unique J



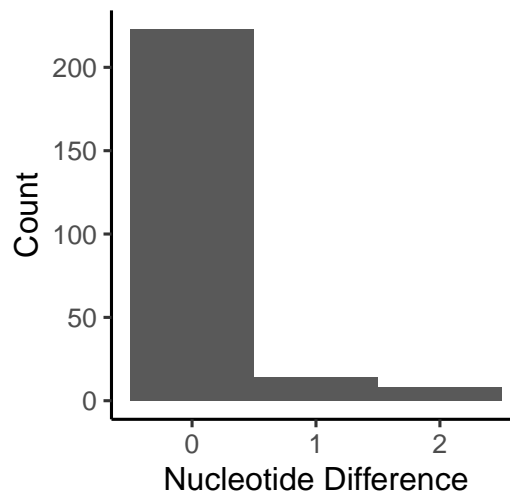
IGHV4–4*02_03

352 sequences assigned
323 (91.8%) exact matches, in which:
322 unique CDR3
6 unique J



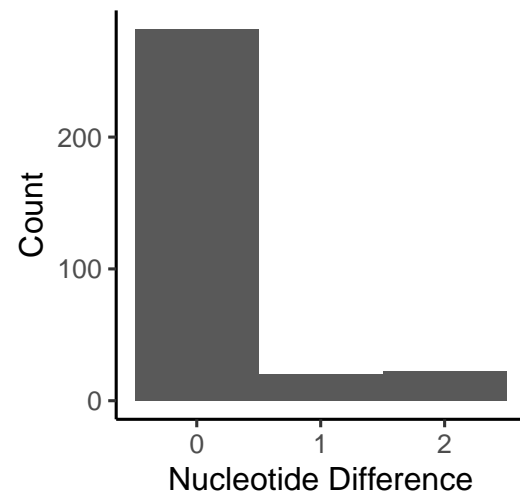
IGHV4–30–2*01

245 sequences assigned
223 (91%) exact matches, in which:
219 unique CDR3
6 unique J



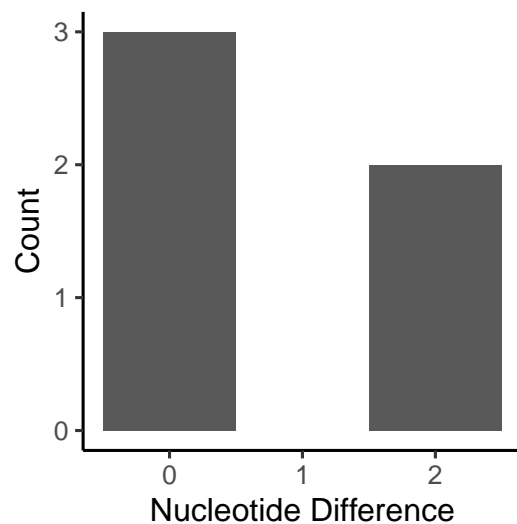
IGHV4–38–2*02

324 sequences assigned
282 (87%) exact matches, in which:
280 unique CDR3
6 unique J



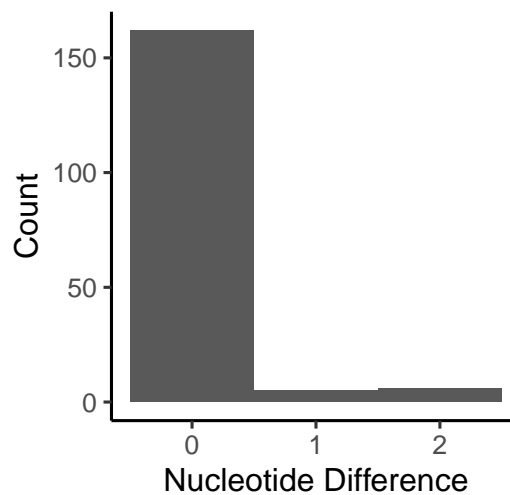
IGHV4–28*01_07

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



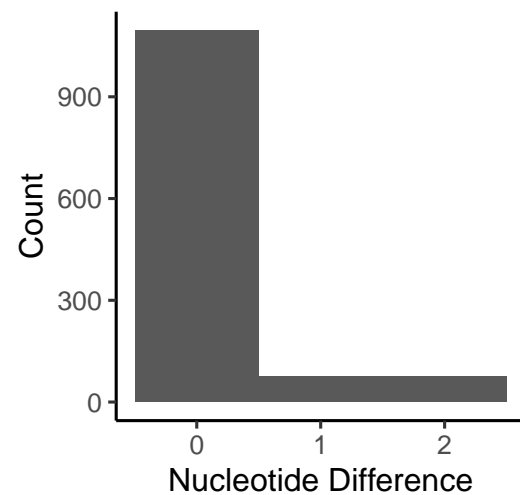
IGHV4–31*02

173 sequences assigned
162 (93.6%) exact matches, in which:
162 unique CDR3
6 unique J



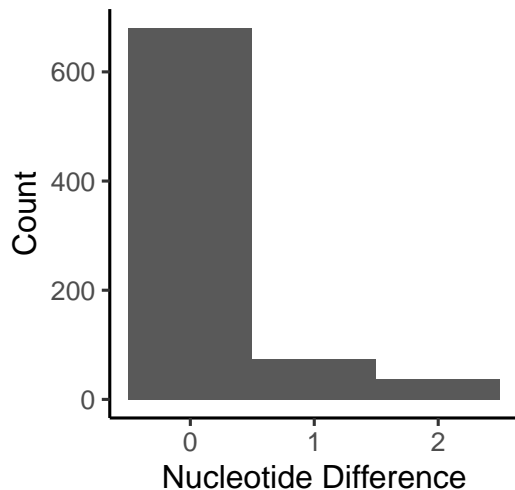
IGHV4–39*07

1246 sequences assigned
1096 (88%) exact matches, in which:
1087 unique CDR3
6 unique J



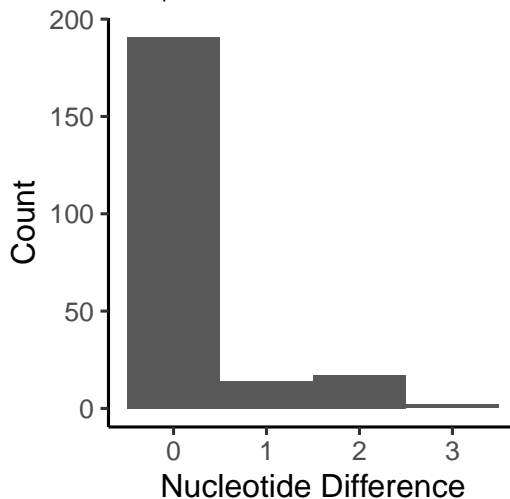
IGHV4-39*02_C258G

792 sequences assigned
681 (86%) exact matches, in which:
670 unique CDR3
6 unique J



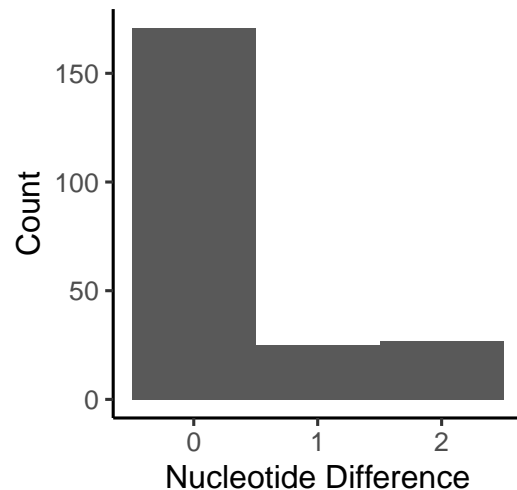
IGHV4-61*01

224 sequences assigned
191 (85.3%) exact matches, in which:
188 unique CDR3
6 unique J



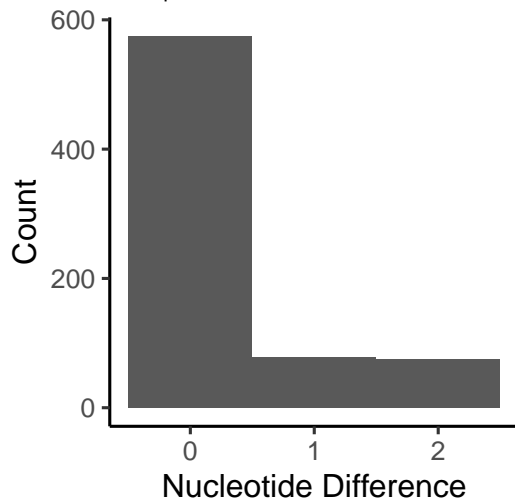
IGHV5-51*07_A128G

223 sequences assigned
171 (76.7%) exact matches, in which:
171 unique CDR3
6 unique J



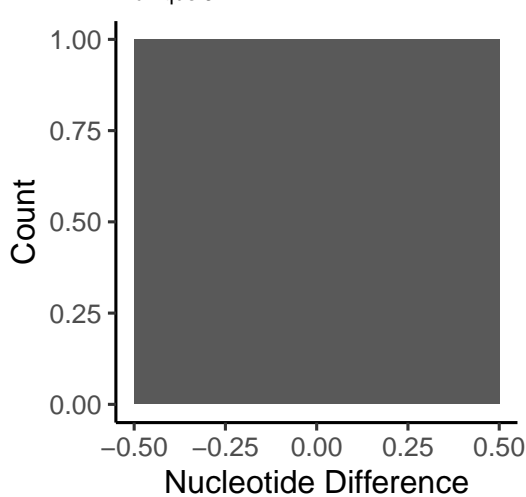
IGHV4-59*08

728 sequences assigned
575 (79%) exact matches, in which:
564 unique CDR3
6 unique J



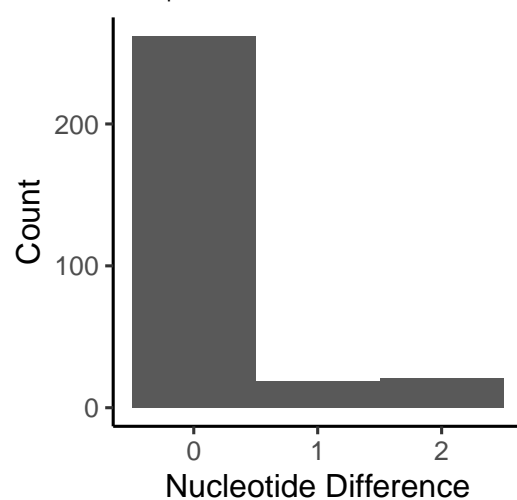
IGHV4/OR15-8*01

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



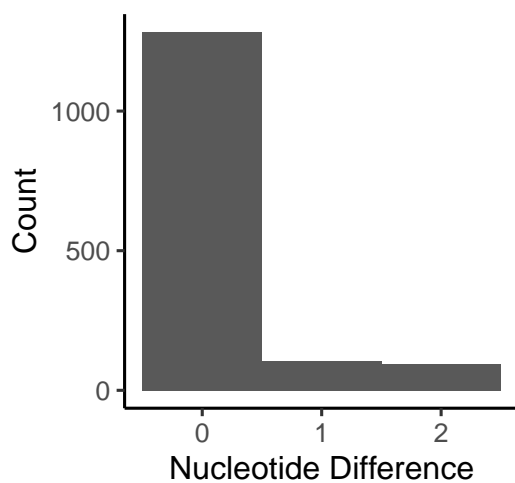
IGHV6-1*01_02

302 sequences assigned
262 (86.8%) exact matches, in which:
261 unique CDR3
6 unique J



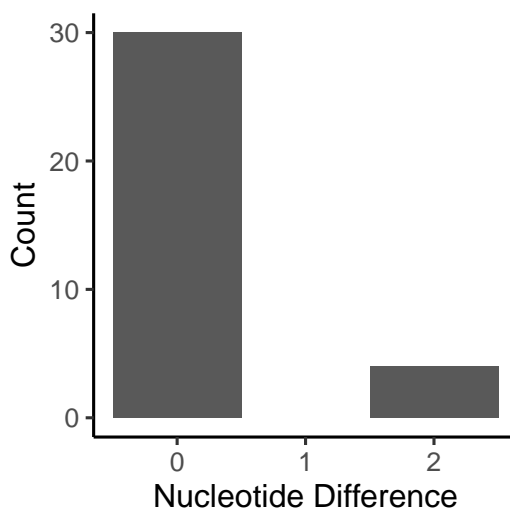
IGHV4-59*02_G88A

1481 sequences assigned
1283 (86.6%) exact matches, in which:
1265 unique CDR3
6 unique J



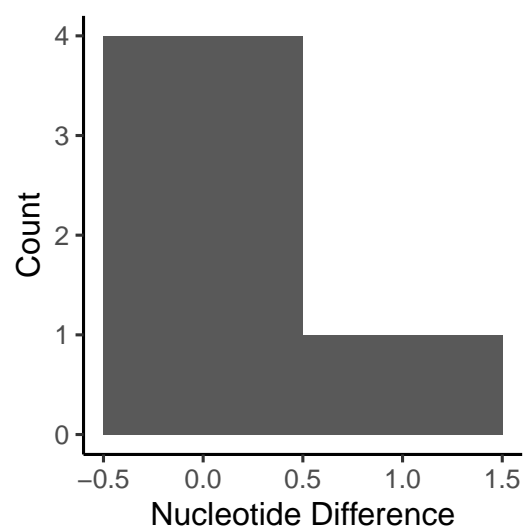
IGHV5-10-1*01_03

34 sequences assigned
30 (88.2%) exact matches, in which:
30 unique CDR3
5 unique J



IGHV7-4-1*01

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
2 unique J





Warning – no inferred sequences found.