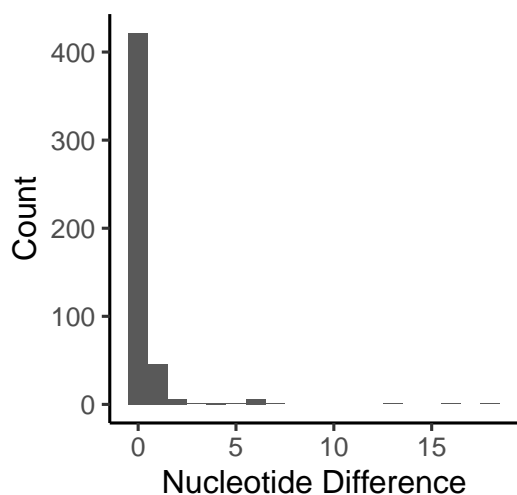


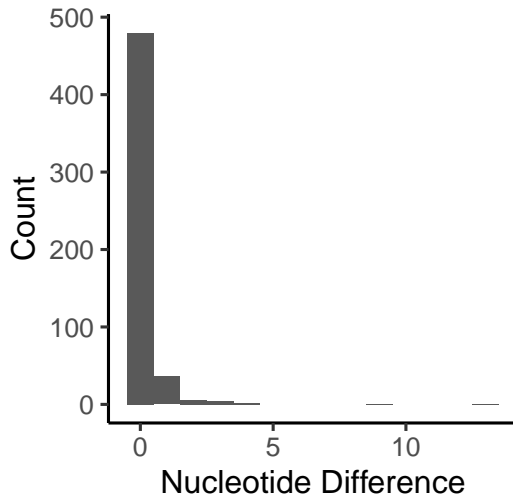
IGHV1-2*02

491 sequences assigned
422 (85.9%) exact matches, in which:
402 unique CDR3
6 unique J



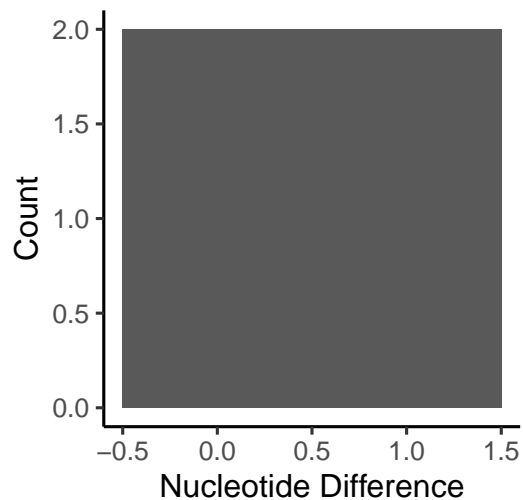
IGHV1-8*01

530 sequences assigned
480 (90.6%) exact matches, in which:
457 unique CDR3
6 unique J



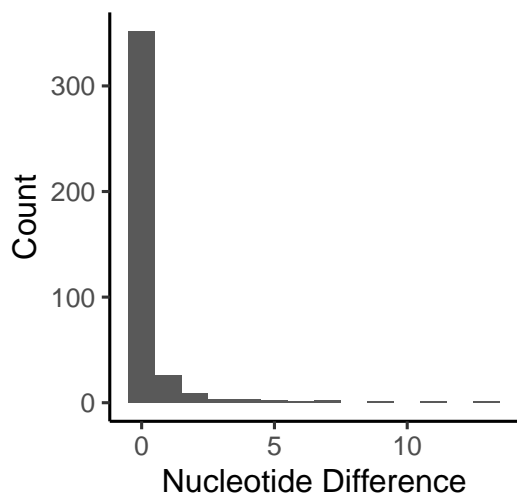
IGHV1-45*02

4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
2 unique J



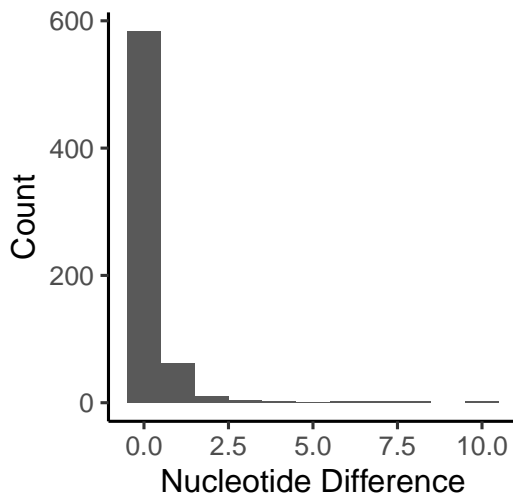
IGHV1-2*06

401 sequences assigned
352 (87.8%) exact matches, in which:
338 unique CDR3
6 unique J



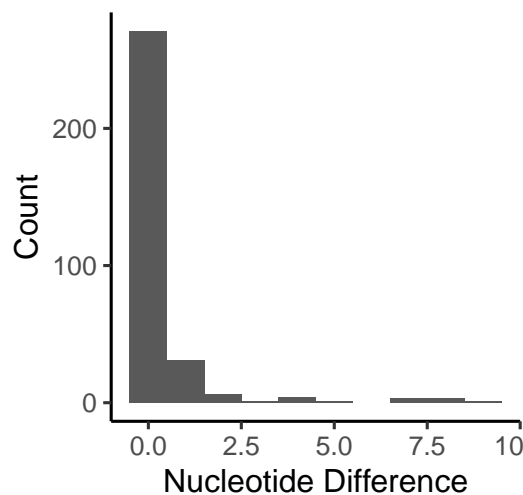
IGHV1-18*01

673 sequences assigned
584 (86.8%) exact matches, in which:
567 unique CDR3
6 unique J



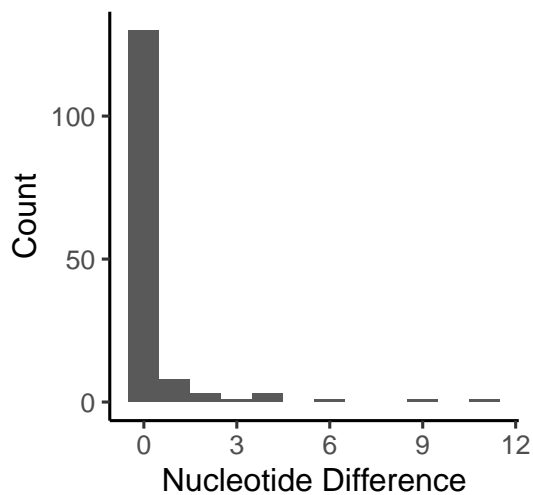
IGHV1-46*03

321 sequences assigned
271 (84.4%) exact matches, in which:
259 unique CDR3
6 unique J



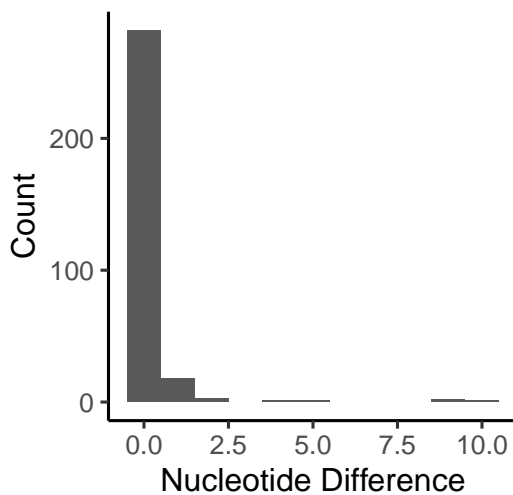
IGHV1-3*01

148 sequences assigned
130 (87.8%) exact matches, in which:
127 unique CDR3
6 unique J



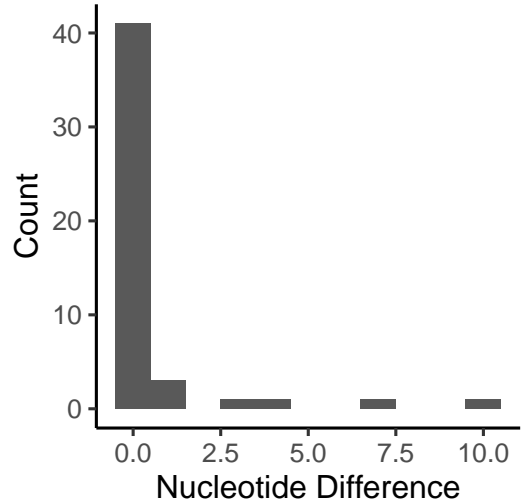
IGHV1-24*01

308 sequences assigned
282 (91.6%) exact matches, in which:
271 unique CDR3
6 unique J



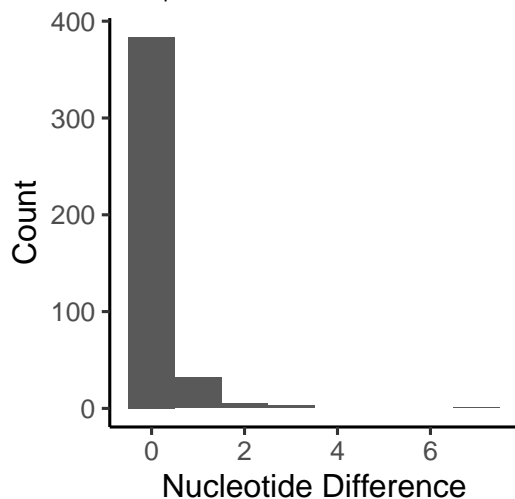
IGHV1-58*02

48 sequences assigned
41 (85.4%) exact matches, in which:
39 unique CDR3
5 unique J



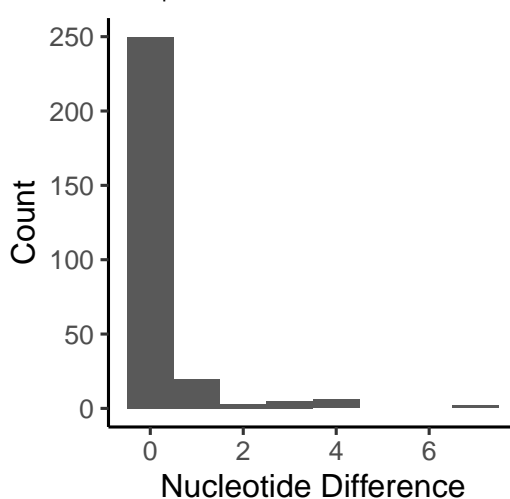
IGHV1–69*04

425 sequences assigned
384 (90.4%) exact matches, in which:
363 unique CDR3
6 unique J



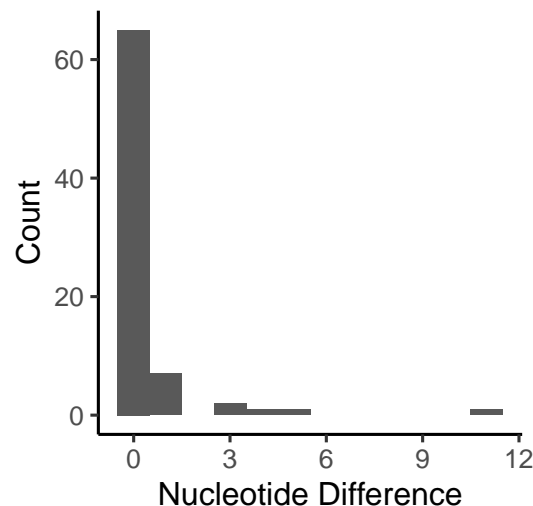
IGHV2–5*02

286 sequences assigned
250 (87.4%) exact matches, in which:
245 unique CDR3
6 unique J



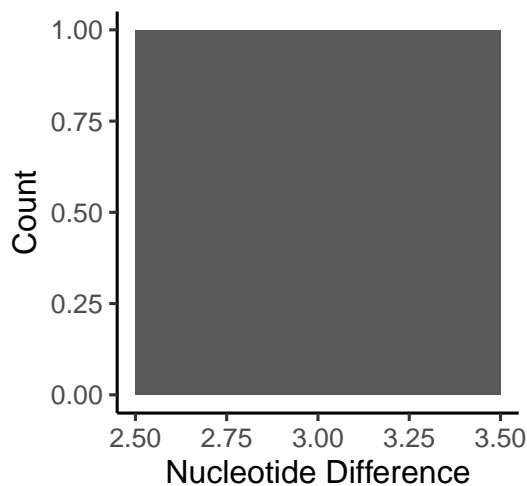
IGHV2–70*15

77 sequences assigned
65 (84.4%) exact matches, in which:
65 unique CDR3
5 unique J



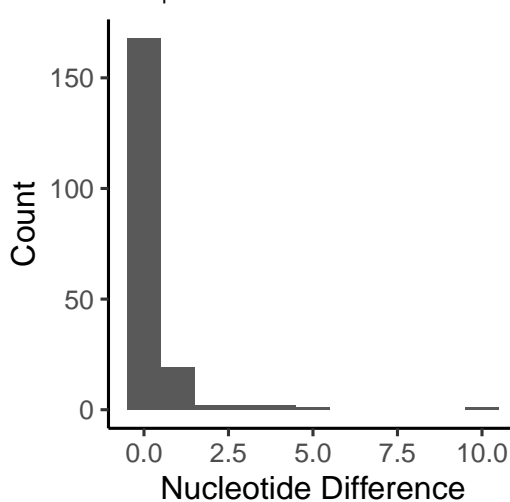
IGHV1–NL1*01

1 sequences assigned
No exact matches.



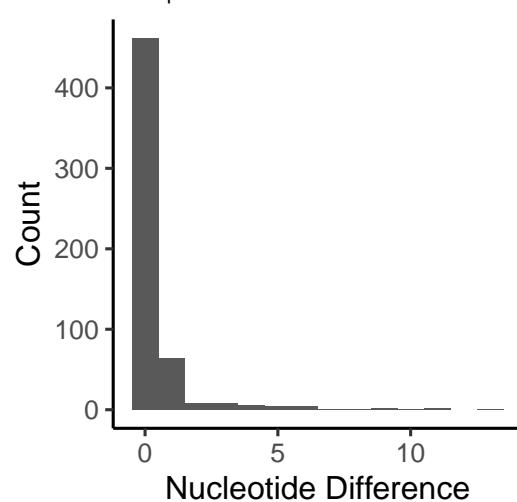
IGHV2–26*01

195 sequences assigned
168 (86.2%) exact matches, in which:
163 unique CDR3
6 unique J



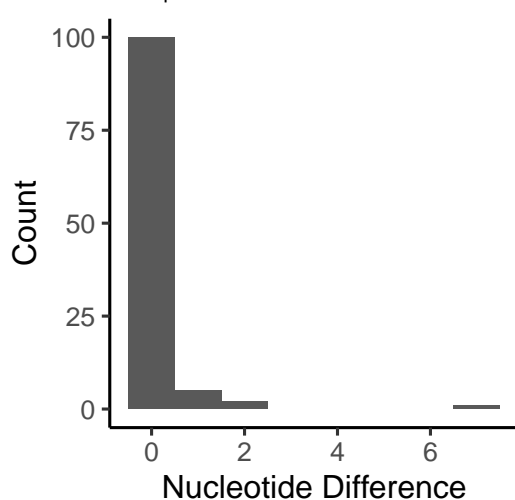
IGHV3–7*01

565 sequences assigned
462 (81.8%) exact matches, in which:
425 unique CDR3
5 unique J



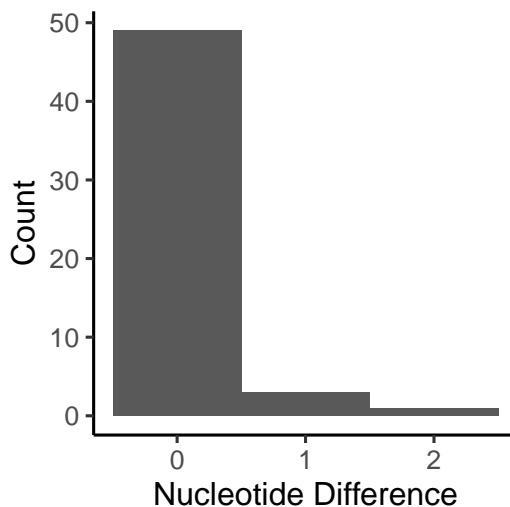
IGHV2–5*01

108 sequences assigned
100 (92.6%) exact matches, in which:
98 unique CDR3
5 unique J



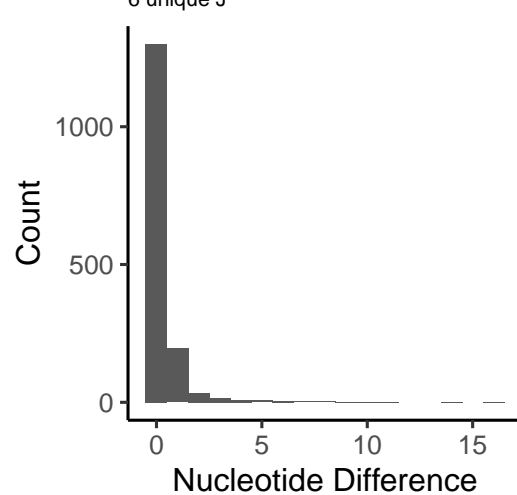
IGHV2–70*01

53 sequences assigned
49 (92.5%) exact matches, in which:
49 unique CDR3
5 unique J



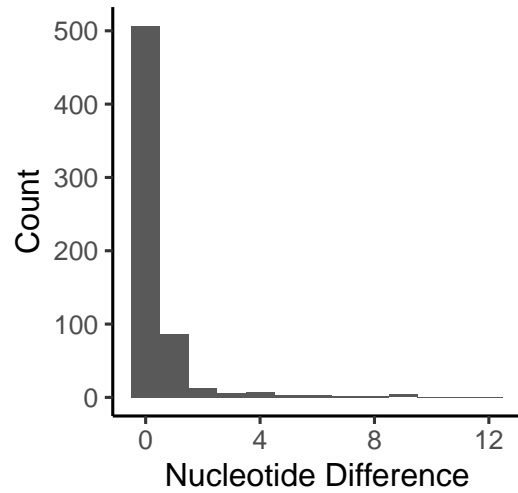
IGHV3–9*01

1579 sequences assigned
1300 (82.3%) exact matches, in which:
1195 unique CDR3
6 unique J



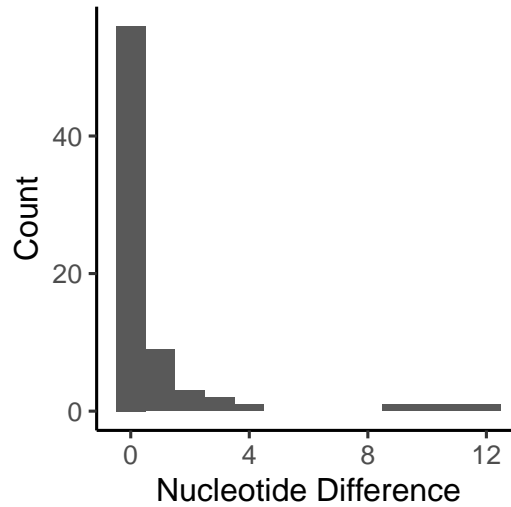
IGHV3-11*01

636 sequences assigned
507 (79.7%) exact matches, in which:
478 unique CDR3
6 unique J



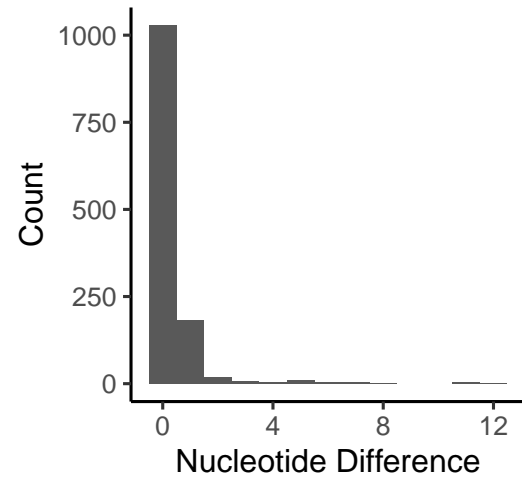
IGHV3-20*01

89 sequences assigned
56 (62.9%) exact matches, in which:
51 unique CDR3
5 unique J



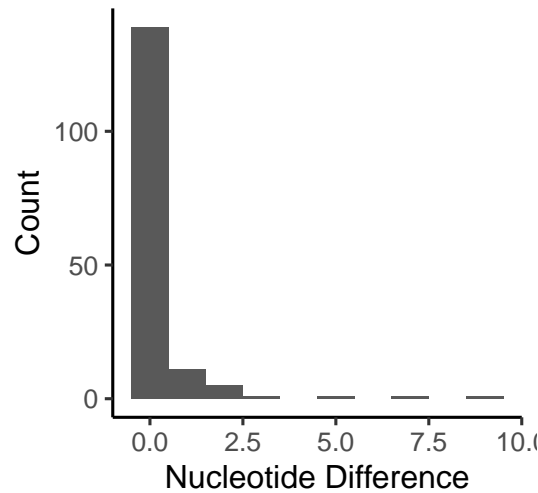
IGHV3-30-3*01

1263 sequences assigned
1028 (81.4%) exact matches, in which:
950 unique CDR3
6 unique J



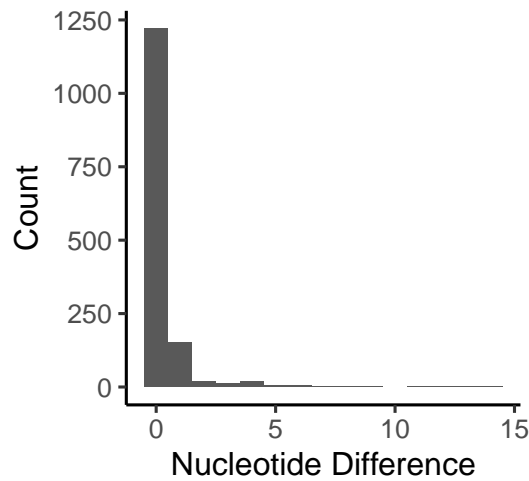
IGHV3-13*01

160 sequences assigned
139 (86.9%) exact matches, in which:
127 unique CDR3
5 unique J



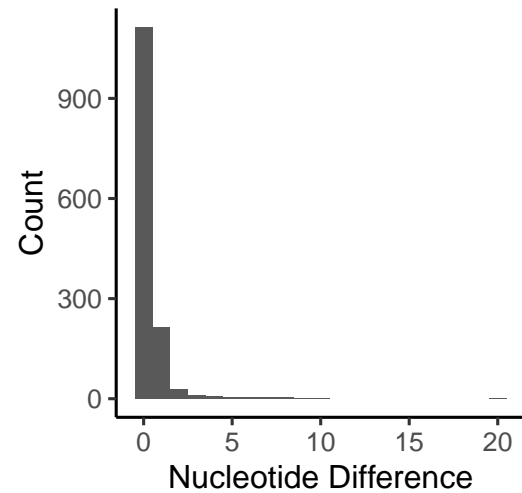
IGHV3-21*01

1437 sequences assigned
1220 (84.9%) exact matches, in which:
1136 unique CDR3
6 unique J



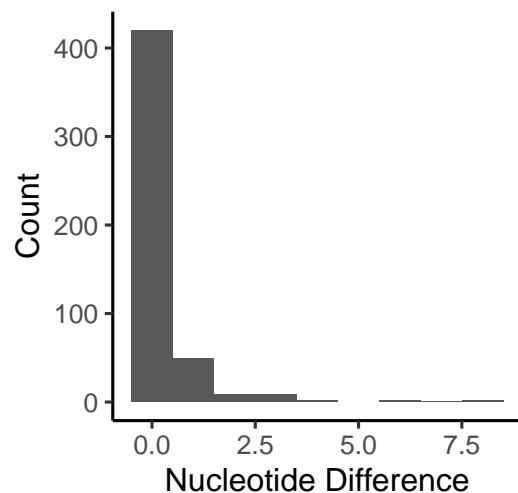
IGHV3-33*01

1396 sequences assigned
1114 (79.8%) exact matches, in which:
1017 unique CDR3
6 unique J



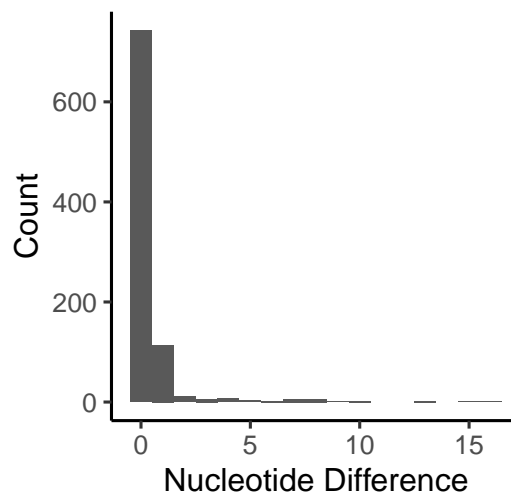
IGHV3-15*01

495 sequences assigned
420 (84.8%) exact matches, in which:
394 unique CDR3
5 unique J



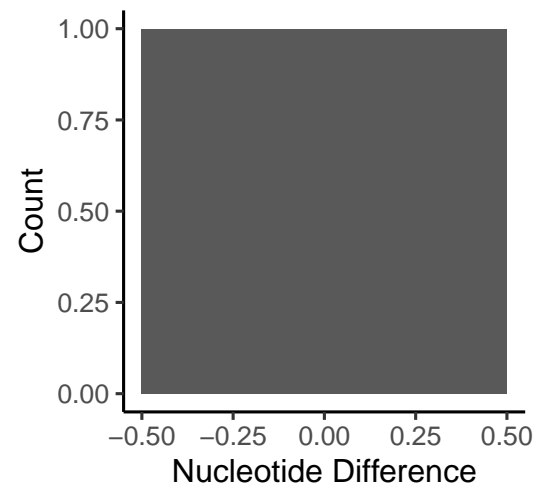
IGHV3-23*04

908 sequences assigned
743 (81.8%) exact matches, in which:
685 unique CDR3
6 unique J



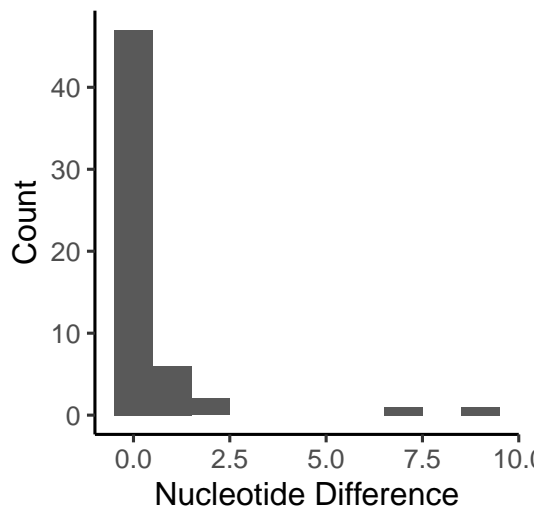
IGHV3-35*01

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



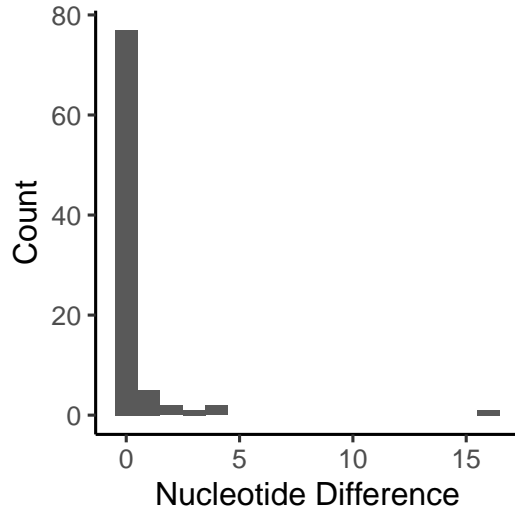
IGHV3-43*01

57 sequences assigned
47 (82.5%) exact matches, in which:
45 unique CDR3
4 unique J



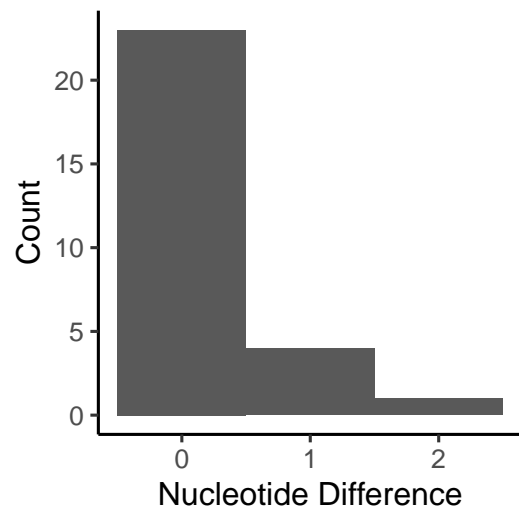
IGHV3-53*02

88 sequences assigned
77 (87.5%) exact matches, in which:
74 unique CDR3
5 unique J



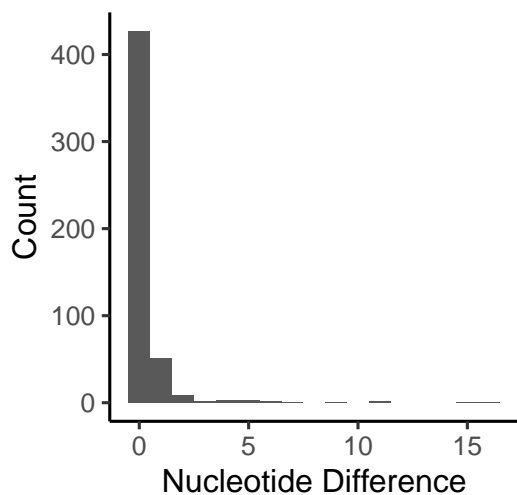
IGHV3-72*01

28 sequences assigned
23 (82.1%) exact matches, in which:
23 unique CDR3
4 unique J



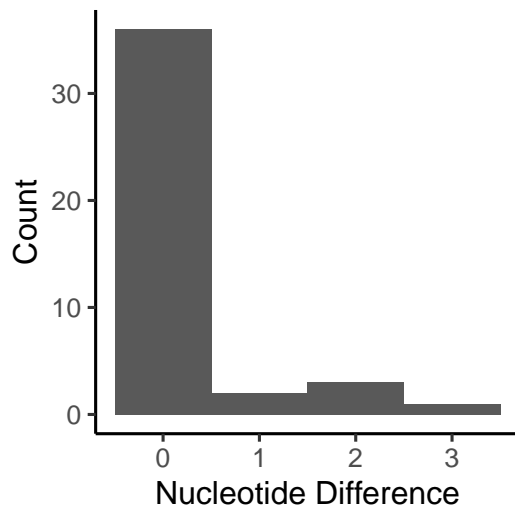
IGHV3-48*01

504 sequences assigned
427 (84.7%) exact matches, in which:
395 unique CDR3
6 unique J



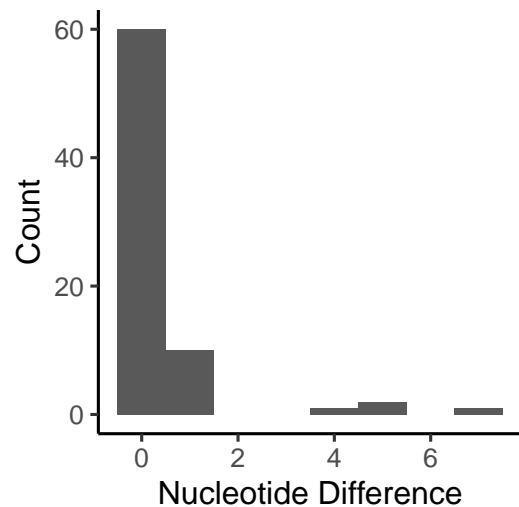
IGHV3-64*01

42 sequences assigned
36 (85.7%) exact matches, in which:
34 unique CDR3
6 unique J



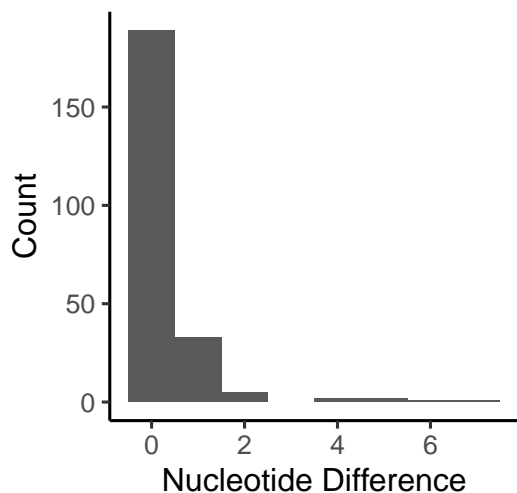
IGHV3-73*01

74 sequences assigned
60 (81.1%) exact matches, in which:
56 unique CDR3
6 unique J



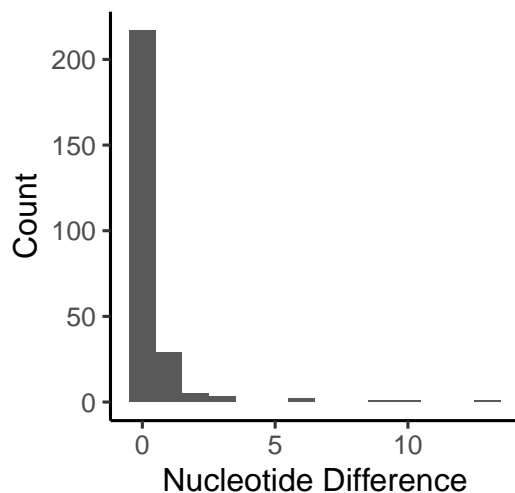
IGHV3-49*03

233 sequences assigned
189 (81.1%) exact matches, in which:
176 unique CDR3
6 unique J



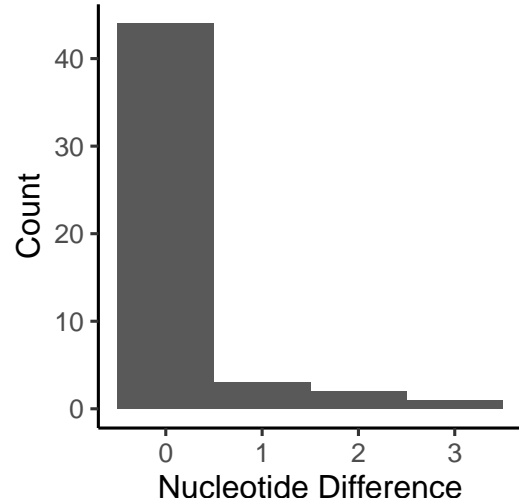
IGHV3-66*01

259 sequences assigned
217 (83.8%) exact matches, in which:
201 unique CDR3
6 unique J



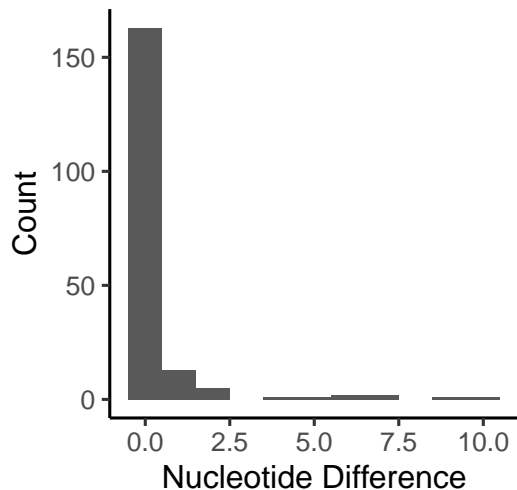
IGHV3-73*02

50 sequences assigned
44 (88%) exact matches, in which:
41 unique CDR3
4 unique J



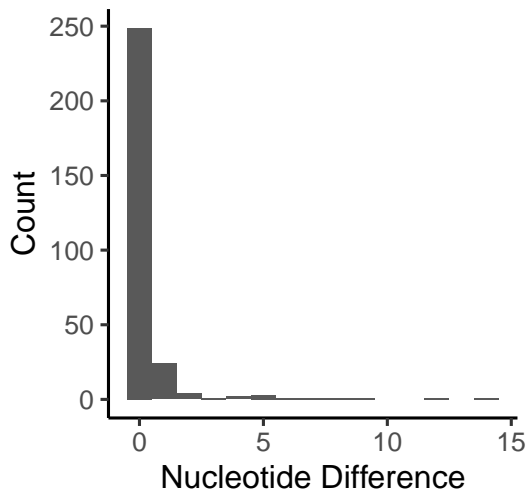
IGHV3–74*01

189 sequences assigned
163 (86.2%) exact matches, in which:
155 unique CDR3
6 unique J



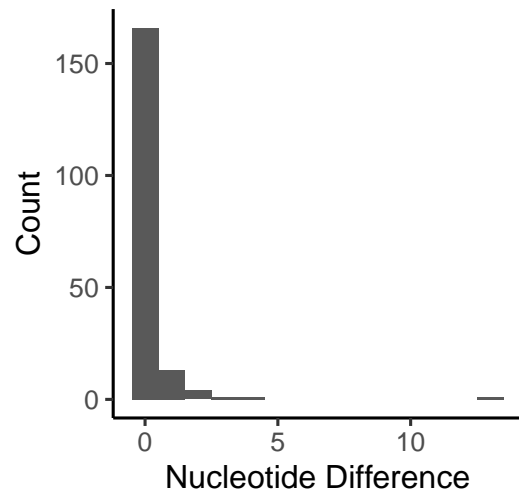
IGHV4–4*02_A106G

289 sequences assigned
249 (86.2%) exact matches, in which:
240 unique CDR3
6 unique J



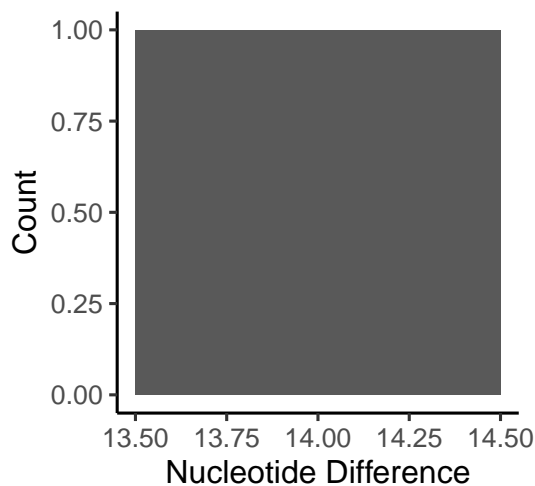
IGHV4–30–2*01

186 sequences assigned
166 (89.2%) exact matches, in which:
159 unique CDR3
6 unique J



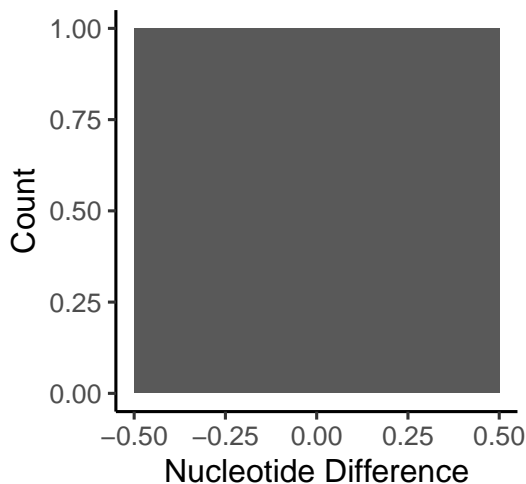
IGHV3–NL1*01

1 sequences assigned
No exact matches.



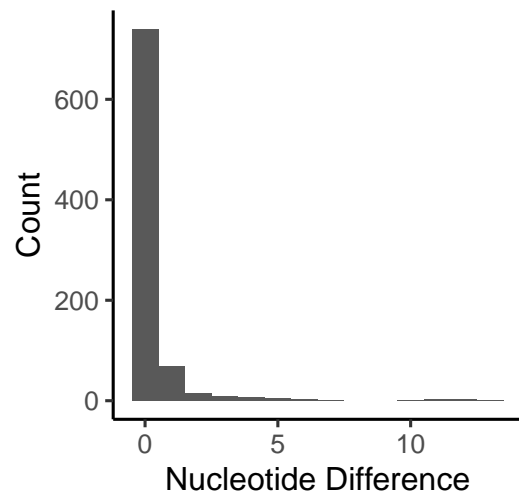
IGHV4–28*01

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



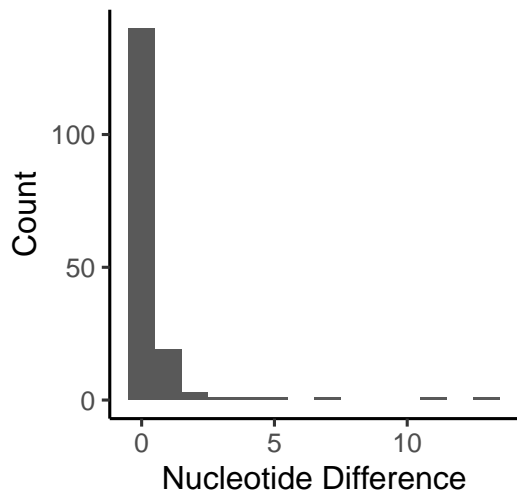
IGHV4–31*03

859 sequences assigned
740 (86.1%) exact matches, in which:
702 unique CDR3
6 unique J



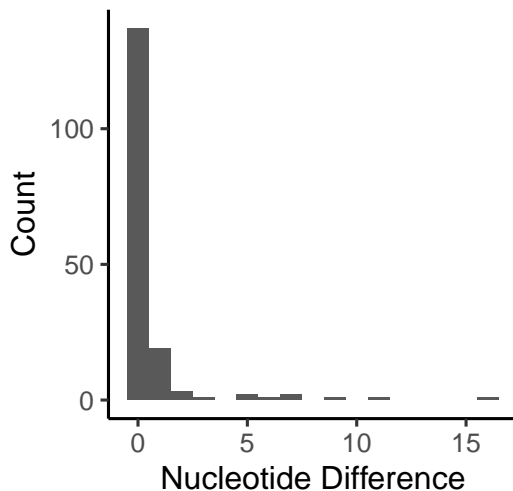
IGHV4–4*07

168 sequences assigned
140 (83.3%) exact matches, in which:
135 unique CDR3
6 unique J



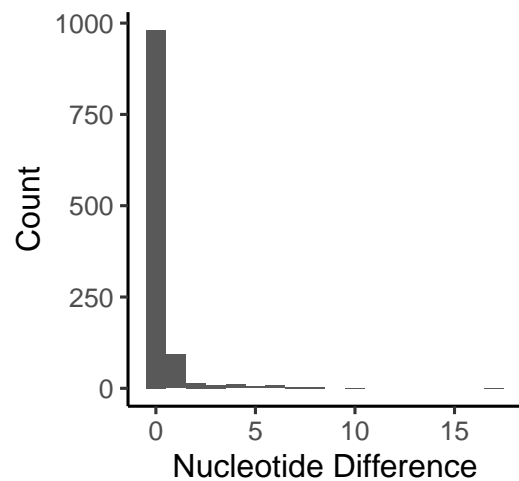
IGHV4–30–4*01

169 sequences assigned
137 (81.1%) exact matches, in which:
129 unique CDR3
5 unique J



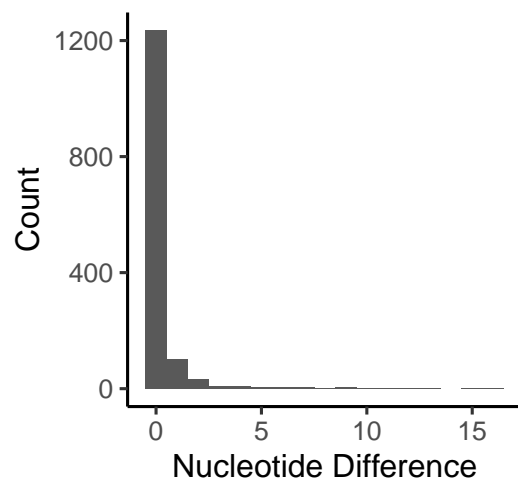
IGHV4–34*01

1130 sequences assigned
981 (86.8%) exact matches, in which:
934 unique CDR3
6 unique J



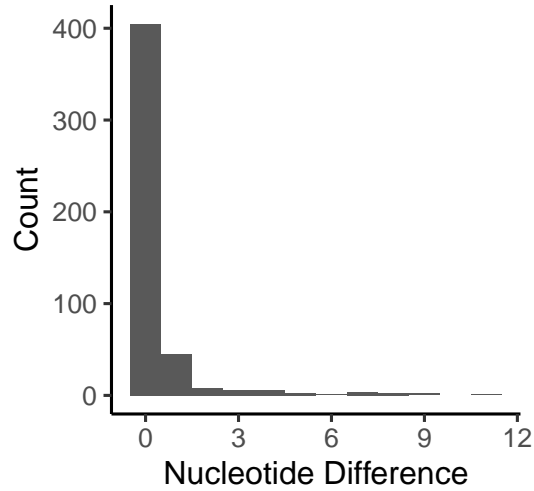
IGHV4-39*01

1422 sequences assigned
1235 (86.8%) exact matches, in which:
1151 unique CDR3
6 unique J



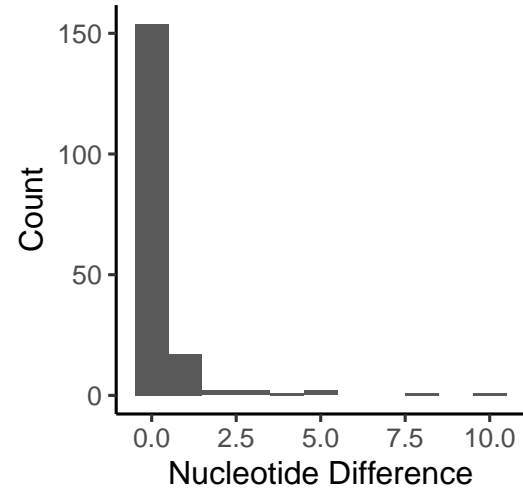
IGHV4-61*02_A234G

484 sequences assigned
405 (83.7%) exact matches, in which:
391 unique CDR3
6 unique J



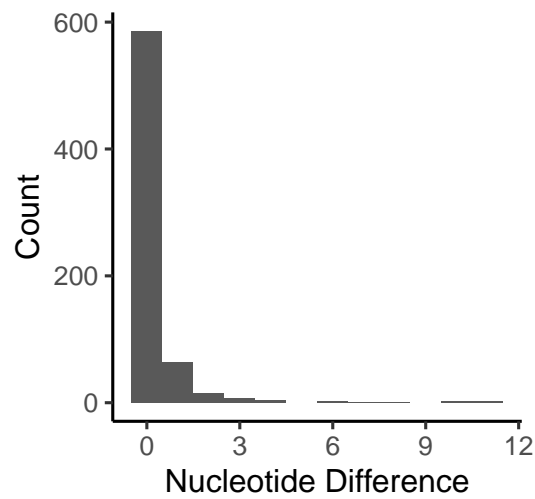
IGHV6-1*01

180 sequences assigned
154 (85.6%) exact matches, in which:
148 unique CDR3
6 unique J



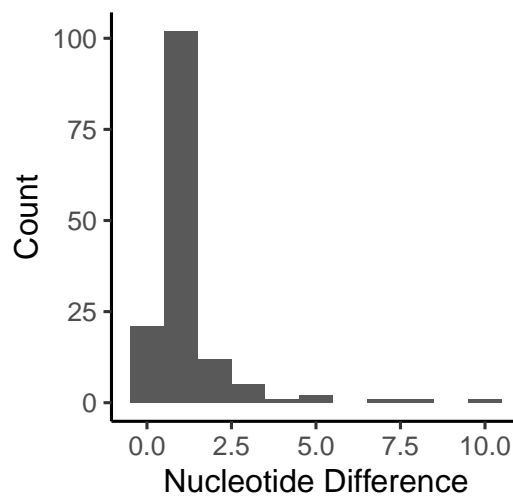
IGHV4-59*01

686 sequences assigned
586 (85.4%) exact matches, in which:
561 unique CDR3
6 unique J



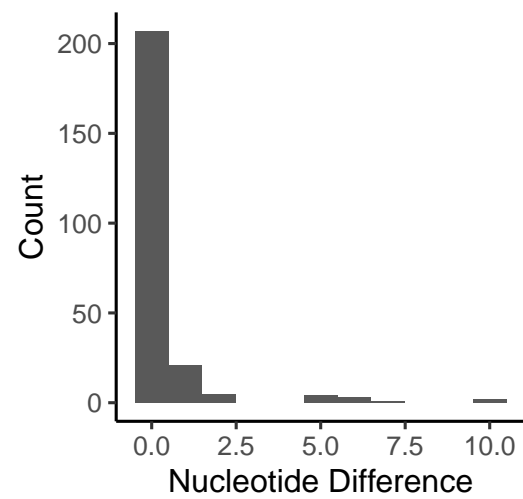
IGHV5-51*01

146 sequences assigned
21 (14.4%) exact matches, in which:
21 unique CDR3
5 unique J



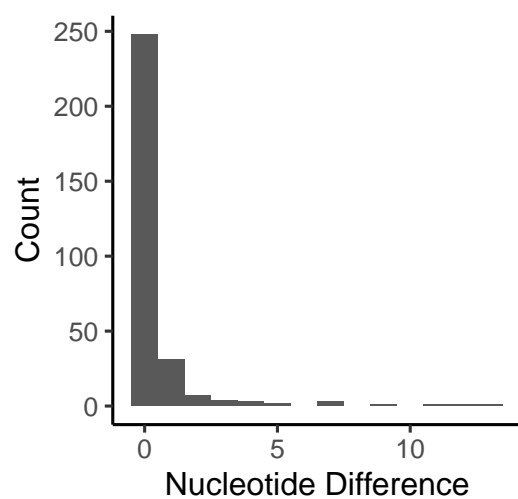
IGHV7-4-1*02

243 sequences assigned
207 (85.2%) exact matches, in which:
198 unique CDR3
6 unique J



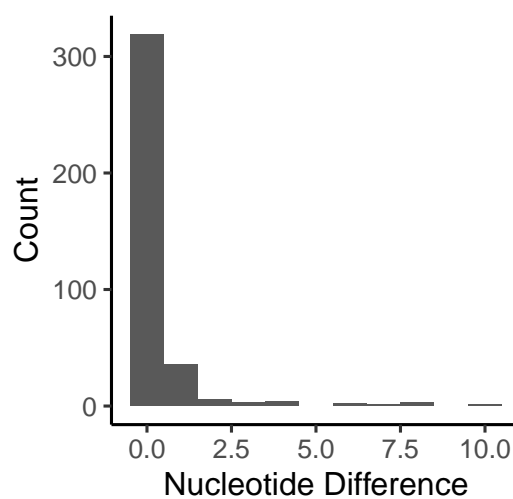
IGHV4-59*08

302 sequences assigned
248 (82.1%) exact matches, in which:
238 unique CDR3
6 unique J



IGHV5-51*03

376 sequences assigned
319 (84.8%) exact matches, in which:
300 unique CDR3
6 unique J





Warning – no inferred sequences found.