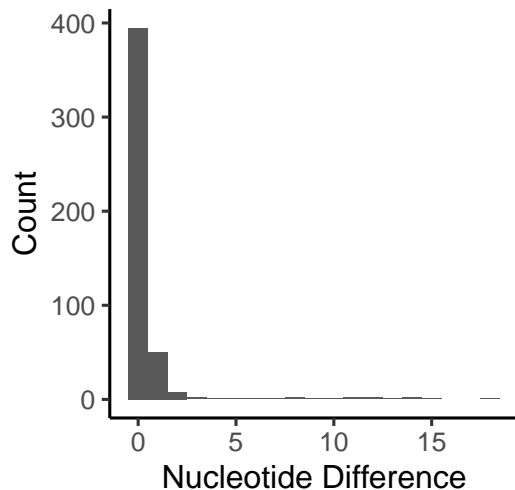


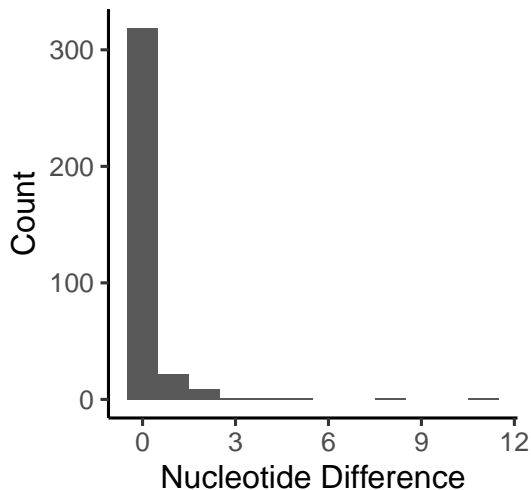
IGHV1-2*02

474 sequences assigned
395 (83.3%) exact matches, in which:
392 unique CDR3
6 unique J



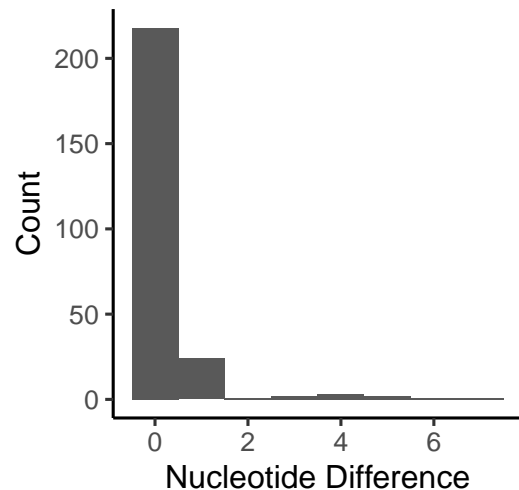
IGHV1-8*01

355 sequences assigned
319 (89.9%) exact matches, in which:
310 unique CDR3
6 unique J



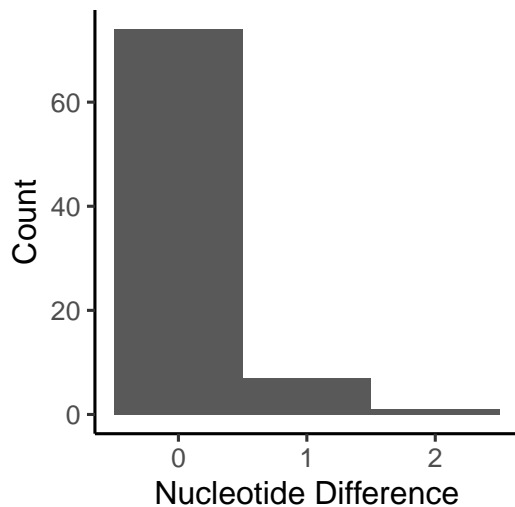
IGHV1-46*01

252 sequences assigned
218 (86.5%) exact matches, in which:
210 unique CDR3
6 unique J



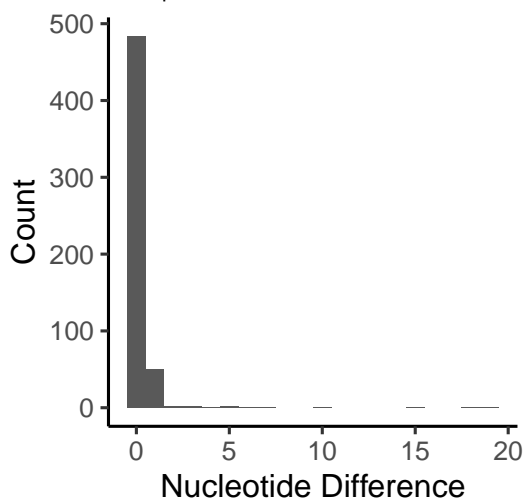
IGHV1-2*04

83 sequences assigned
74 (89.2%) exact matches, in which:
74 unique CDR3
5 unique J



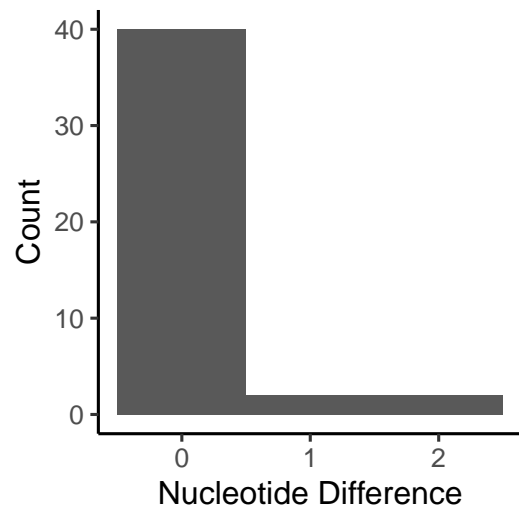
IGHV1-18*01

547 sequences assigned
484 (88.5%) exact matches, in which:
476 unique CDR3
6 unique J



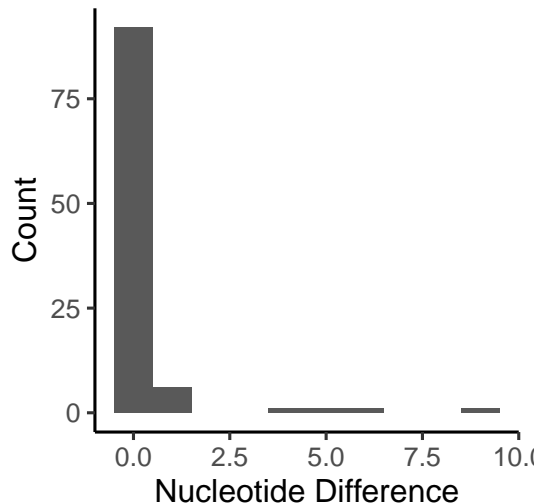
IGHV1-58*01

44 sequences assigned
40 (90.9%) exact matches, in which:
40 unique CDR3
4 unique J



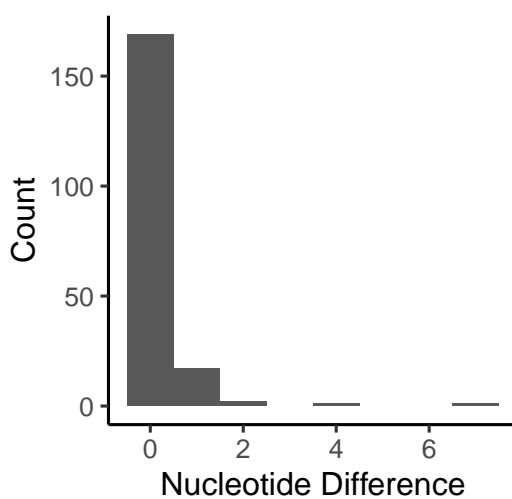
IGHV1-3*01

104 sequences assigned
92 (88.5%) exact matches, in which:
90 unique CDR3
5 unique J



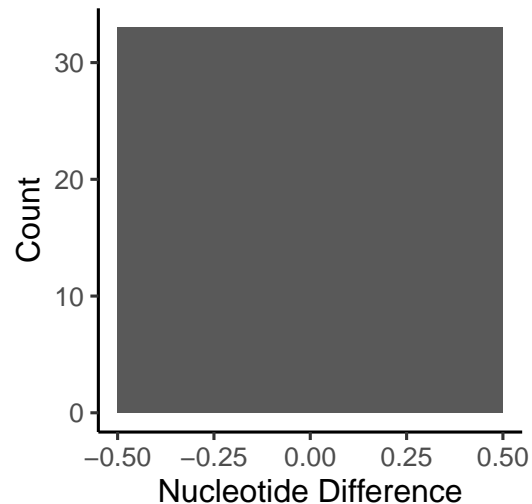
IGHV1-24*01

190 sequences assigned
169 (88.9%) exact matches, in which:
165 unique CDR3
6 unique J



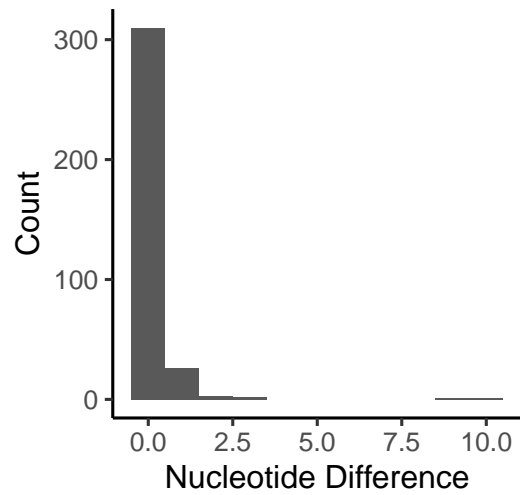
IGHV1-69-2*01

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



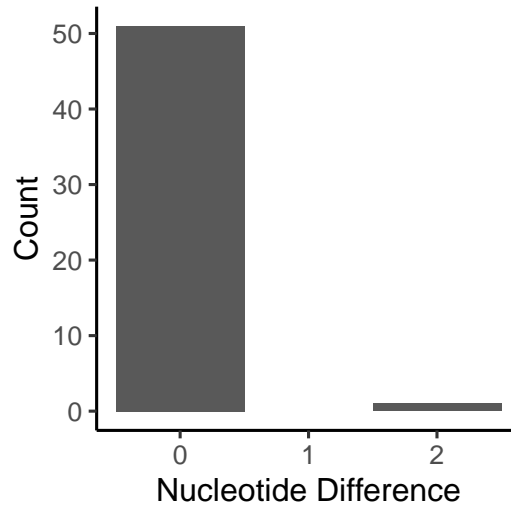
IGHV1–69*06

343 sequences assigned
310 (90.4%) exact matches, in which:
301 unique CDR3
6 unique J



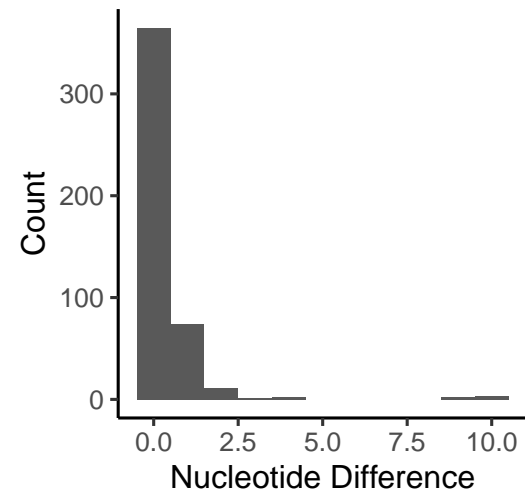
IGHV2–70*01

52 sequences assigned
51 (98.1%) exact matches, in which:
51 unique CDR3
4 unique J



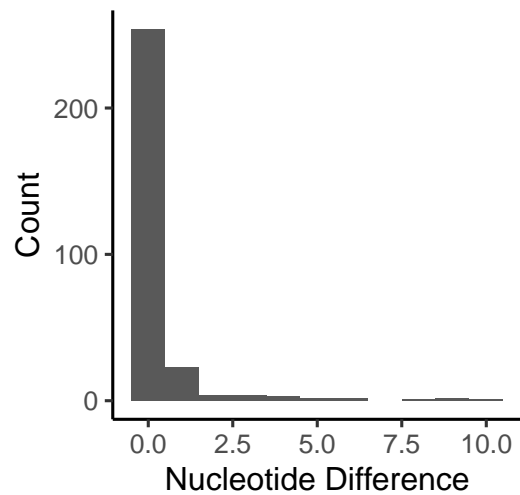
IGHV3–11*01

458 sequences assigned
365 (79.7%) exact matches, in which:
360 unique CDR3
6 unique J



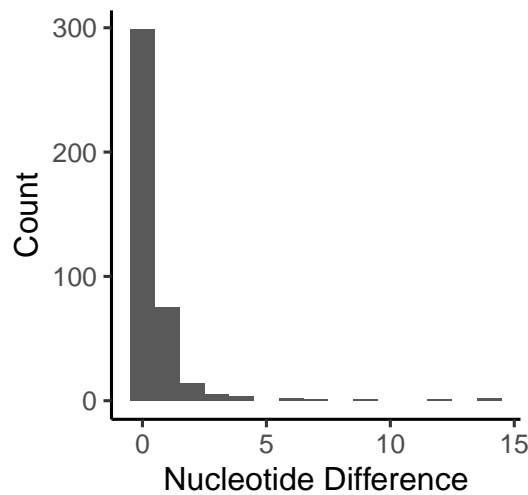
IGHV2–5*02

296 sequences assigned
254 (85.8%) exact matches, in which:
251 unique CDR3
6 unique J



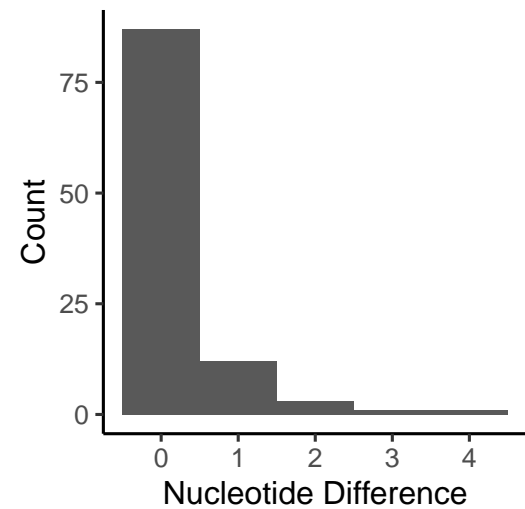
IGHV3–7*01

405 sequences assigned
299 (73.8%) exact matches, in which:
289 unique CDR3
6 unique J



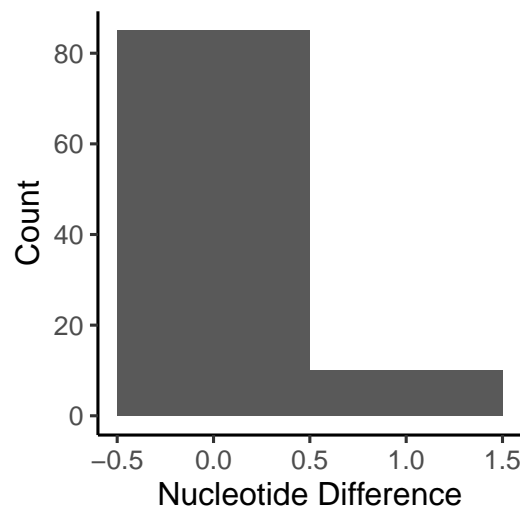
IGHV3–13*01

104 sequences assigned
87 (83.7%) exact matches, in which:
84 unique CDR3
4 unique J



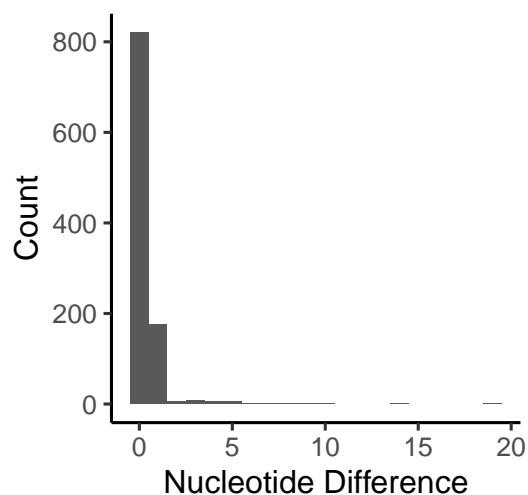
IGHV2–26*01

95 sequences assigned
85 (89.5%) exact matches, in which:
83 unique CDR3
5 unique J



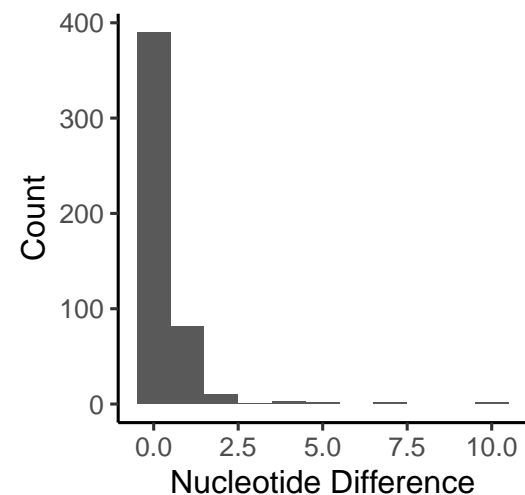
IGHV3–9*01

1029 sequences assigned
821 (79.8%) exact matches, in which:
790 unique CDR3
6 unique J



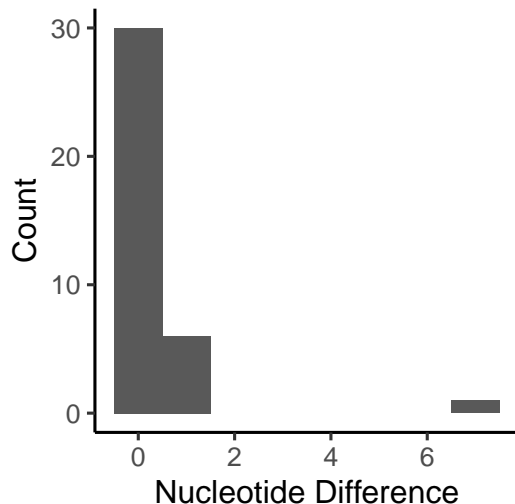
IGHV3–15*01

492 sequences assigned
390 (79.3%) exact matches, in which:
380 unique CDR3
6 unique J



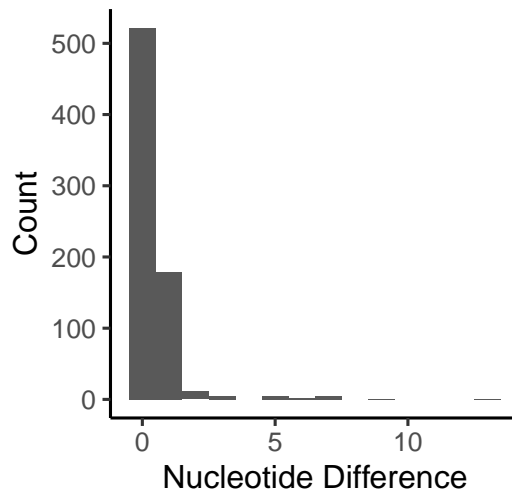
IGHV3–20*01

37 sequences assigned
30 (81.1%) exact matches, in which:
29 unique CDR3
5 unique J



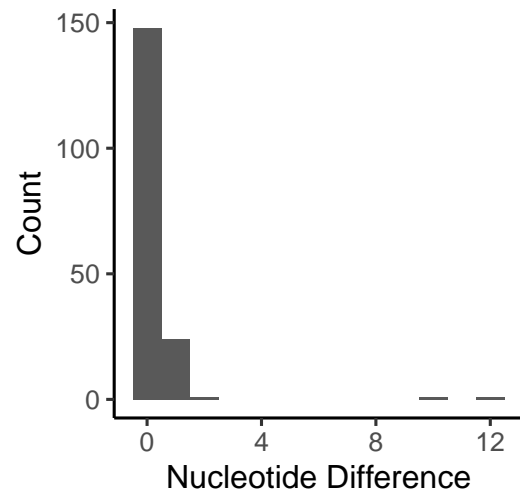
IGHV3–33*01

731 sequences assigned
522 (71.4%) exact matches, in which:
509 unique CDR3
6 unique J



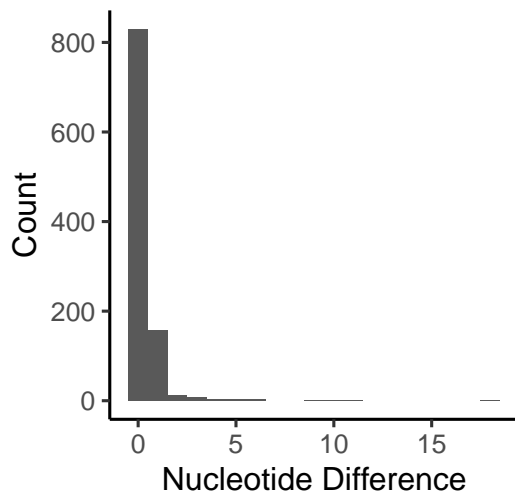
IGHV3–53*01

176 sequences assigned
148 (84.1%) exact matches, in which:
147 unique CDR3
5 unique J



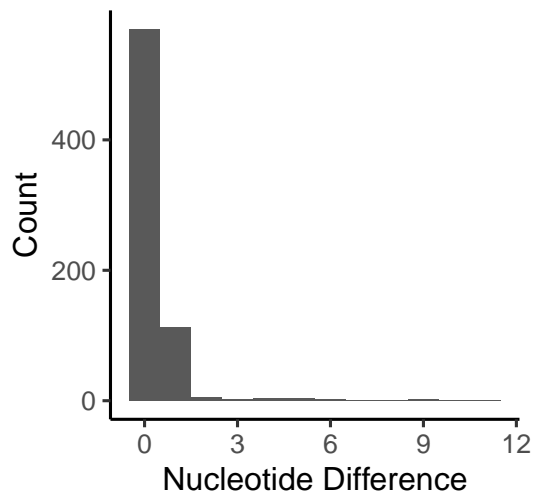
IGHV3–21*01

1021 sequences assigned
830 (81.3%) exact matches, in which:
803 unique CDR3
6 unique J



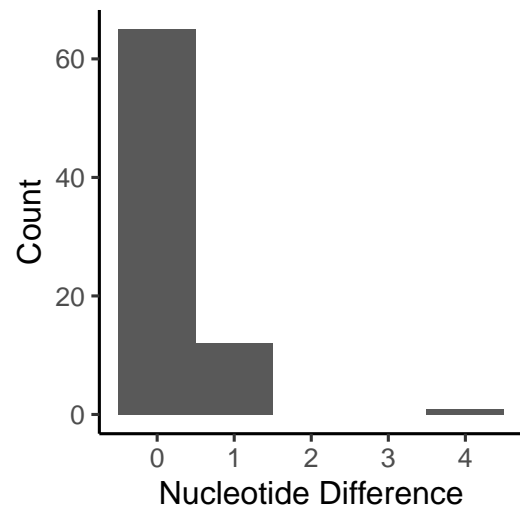
IGHV3–48*03

708 sequences assigned
570 (80.5%) exact matches, in which:
559 unique CDR3
6 unique J



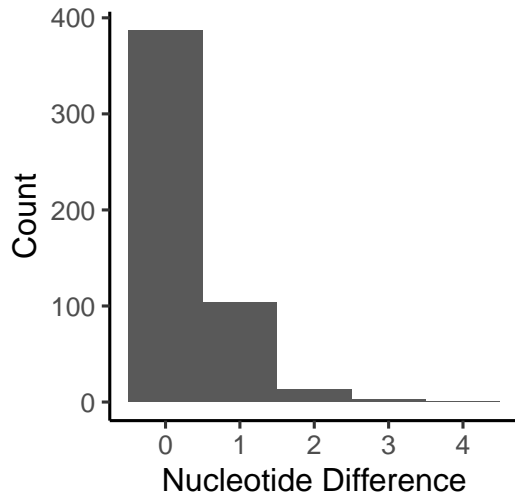
IGHV3–53*02

78 sequences assigned
65 (83.3%) exact matches, in which:
65 unique CDR3
5 unique J



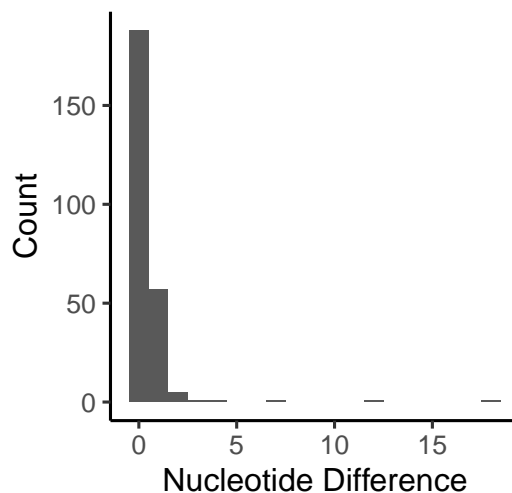
IGHV3–30–3*01

513 sequences assigned
387 (75.4%) exact matches, in which:
374 unique CDR3
6 unique J



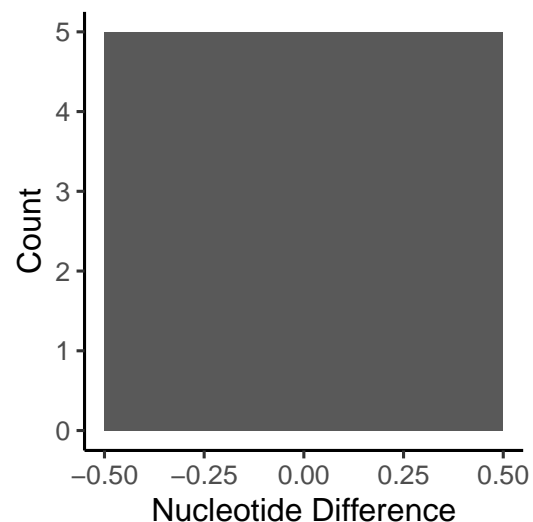
IGHV3–49*04

255 sequences assigned
188 (73.7%) exact matches, in which:
185 unique CDR3
6 unique J



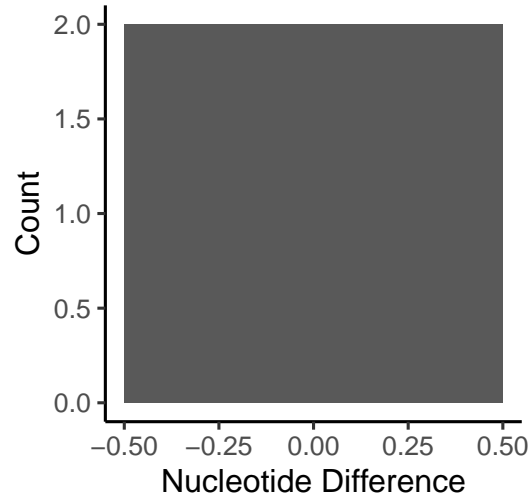
IGHV3–64*02

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



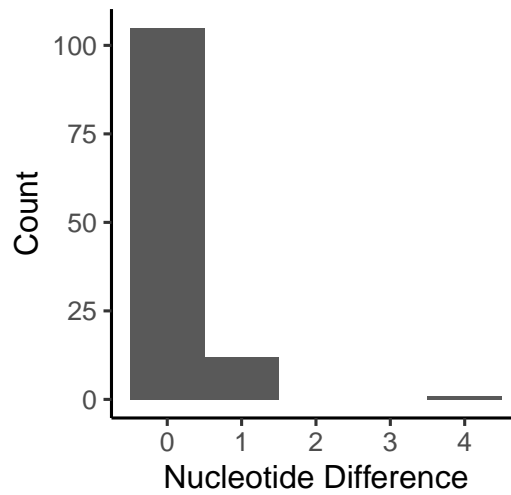
IGHV3–66*03

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



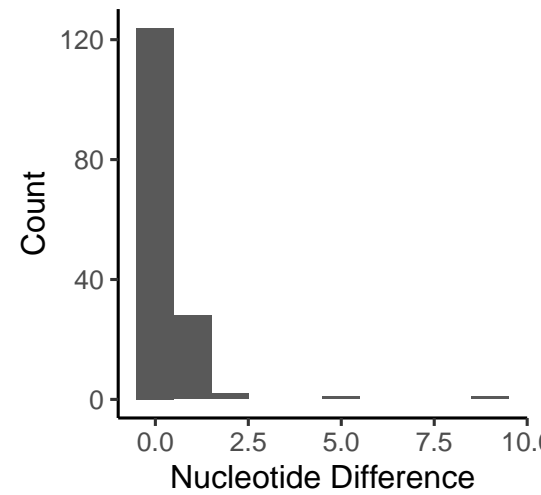
IGHV3–74*01

119 sequences assigned
105 (88.2%) exact matches, in which:
103 unique CDR3
5 unique J



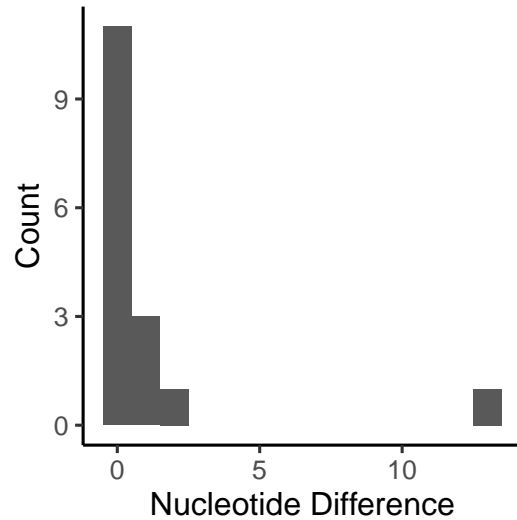
IGHV4–4*07

156 sequences assigned
124 (79.5%) exact matches, in which:
122 unique CDR3
5 unique J



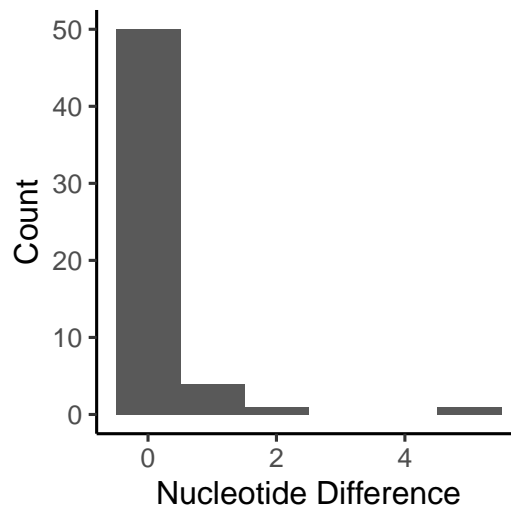
IGHV3–72*01

16 sequences assigned
11 (68.8%) exact matches, in which:
11 unique CDR3
4 unique J



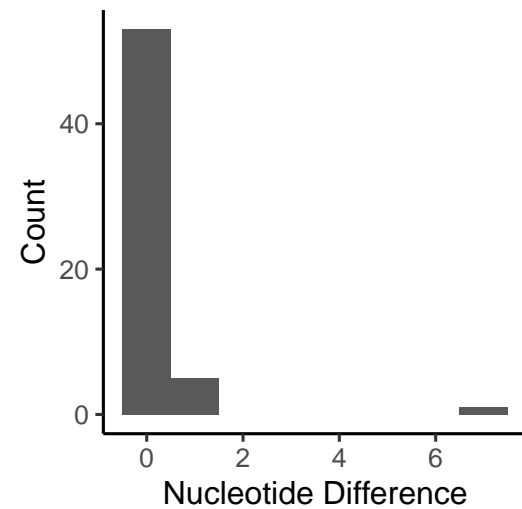
IGHV3–43D*04

56 sequences assigned
50 (89.3%) exact matches, in which:
50 unique CDR3
5 unique J



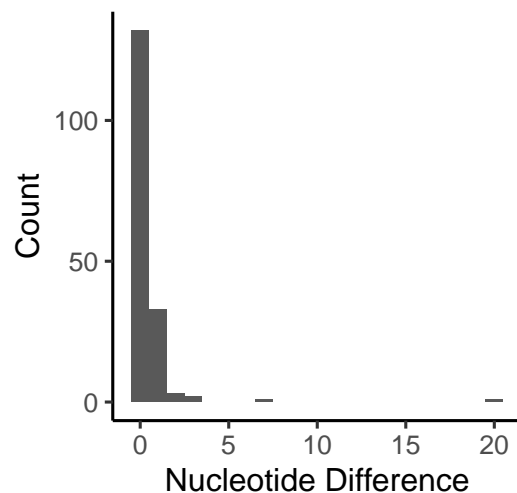
IGHV4–30–2*01

59 sequences assigned
53 (89.8%) exact matches, in which:
51 unique CDR3
6 unique J



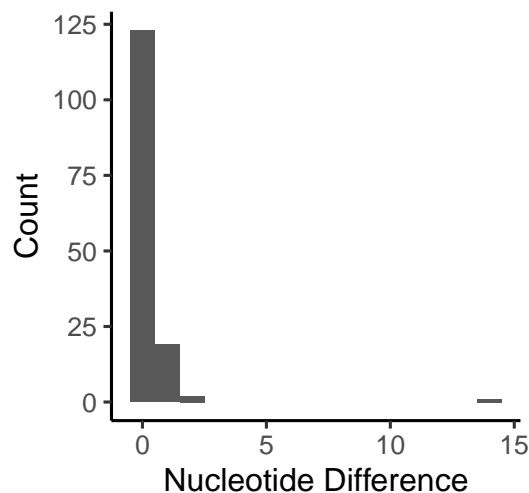
IGHV3–73*02

172 sequences assigned
132 (76.7%) exact matches, in which:
122 unique CDR3
6 unique J



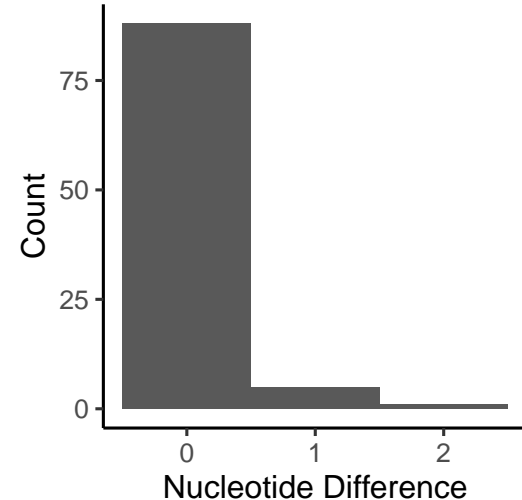
IGHV4–4*02

145 sequences assigned
123 (84.8%) exact matches, in which:
121 unique CDR3
6 unique J



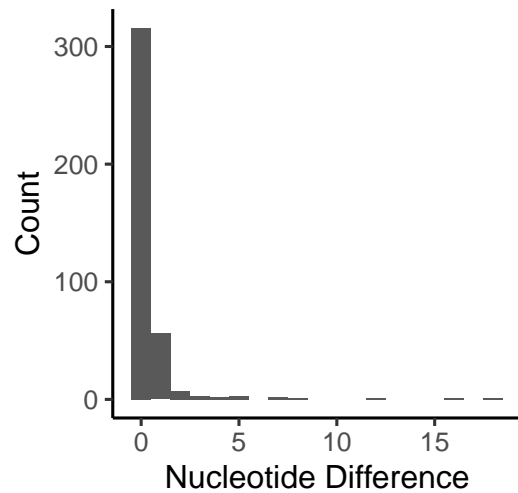
IGHV4–30–4*01

94 sequences assigned
88 (93.6%) exact matches, in which:
86 unique CDR3
6 unique J



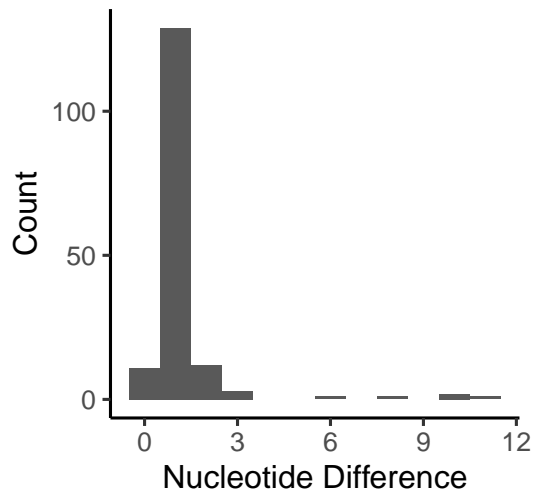
IGHV4-31*03

394 sequences assigned
316 (80.2%) exact matches, in which:
312 unique CDR3
6 unique J



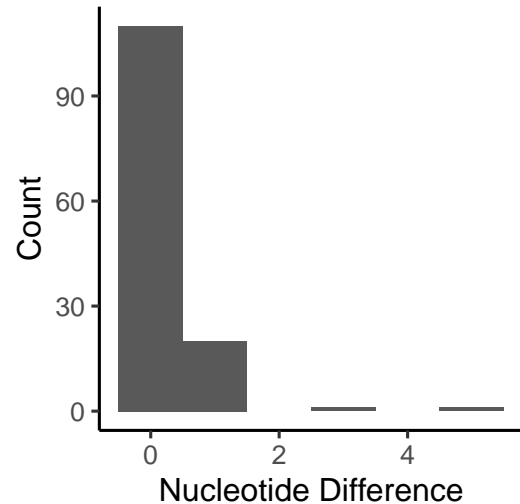
IGHV4-38-2*02

162 sequences assigned
11 (6.8%) exact matches, in which:
11 unique CDR3
4 unique J



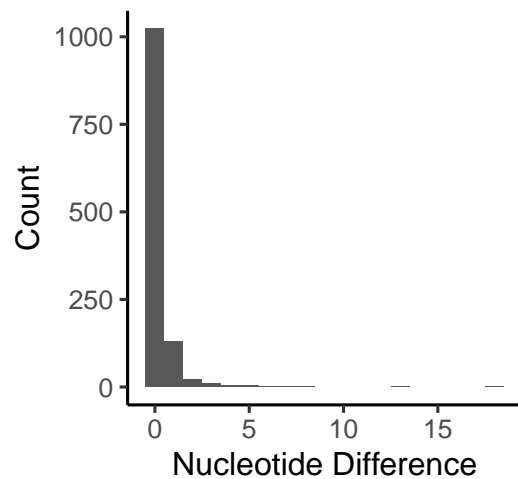
IGHV4-61*01

136 sequences assigned
110 (80.9%) exact matches, in which:
110 unique CDR3
6 unique J



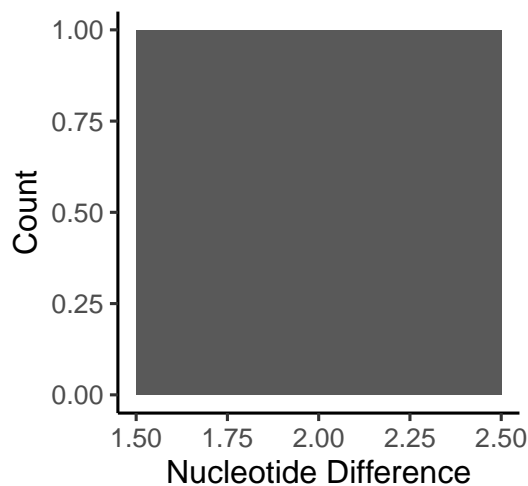
IGHV4-34*01

1202 sequences assigned
1023 (85.1%) exact matches, in which:
1000 unique CDR3
6 unique J



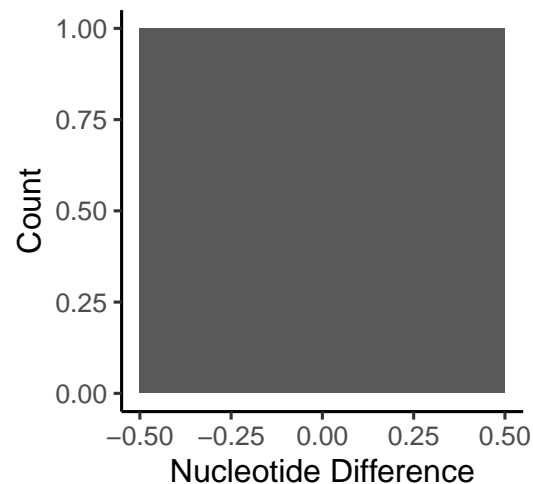
IGHV4-39*07

1 sequences assigned
No exact matches.



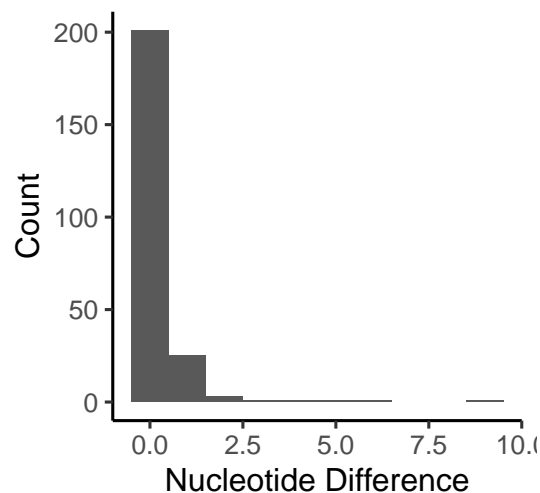
IGHV1/OR15-2*01

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



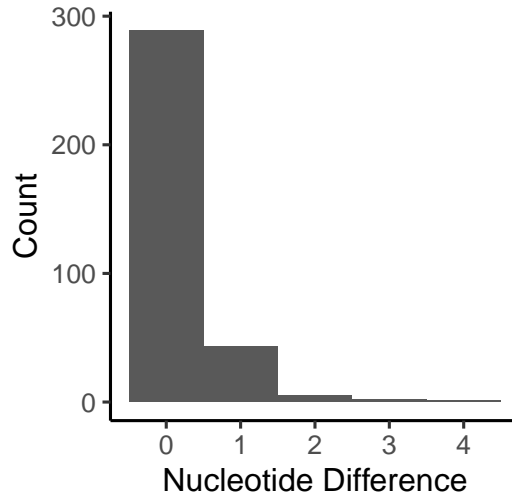
IGHV4-38-2*01

234 sequences assigned
201 (85.9%) exact matches, in which:
200 unique CDR3
6 unique J



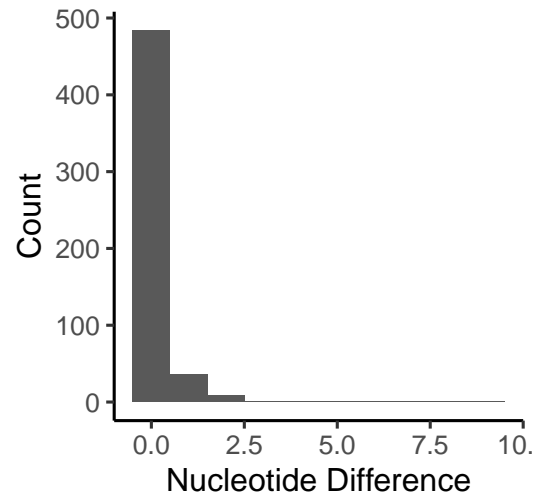
IGHV4-59*01

340 sequences assigned
289 (85%) exact matches, in which:
288 unique CDR3
6 unique J



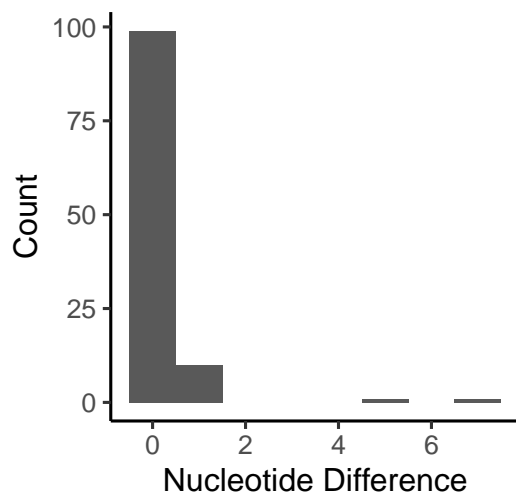
IGHV5-51*01

536 sequences assigned
484 (90.3%) exact matches, in which:
471 unique CDR3
6 unique J



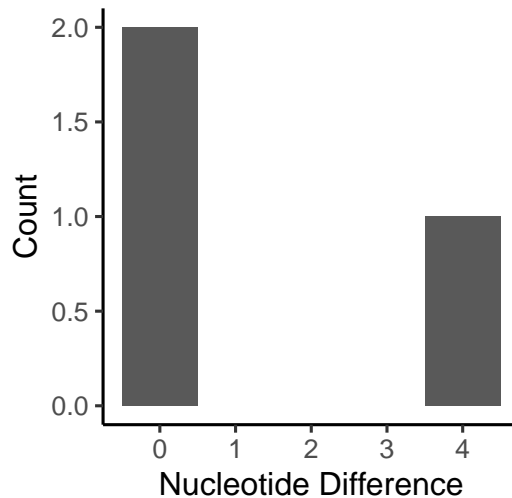
IGHV6-1*01

111 sequences assigned
99 (89.2%) exact matches, in which:
96 unique CDR3
5 unique J



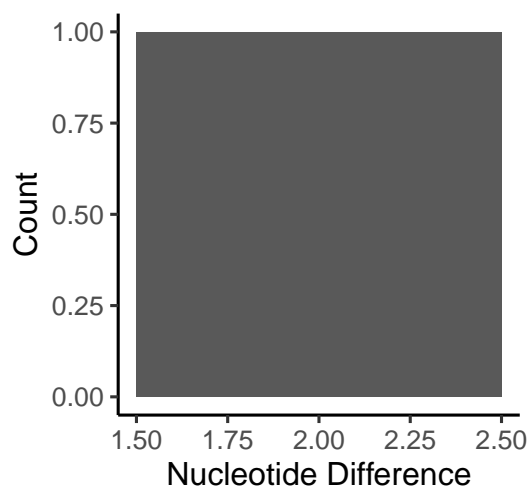
IGHV7-4-1*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



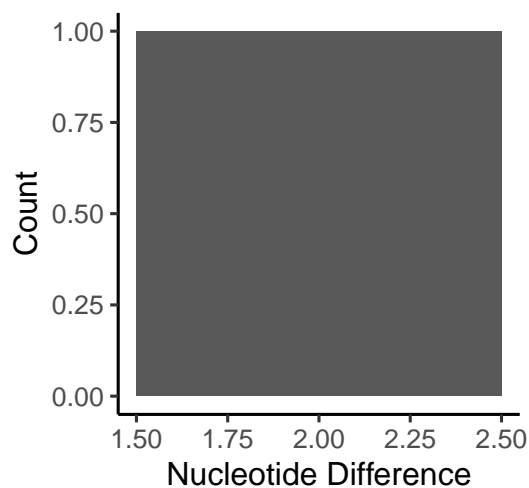
IGHV3/OR16-8*01

1 sequences assigned
No exact matches.



IGHV3/OR16-12*01

1 sequences assigned
No exact matches.





Novel sequence(s)IGHV4-38-2*02_A70G are not listed in the genotype and will be ignored.