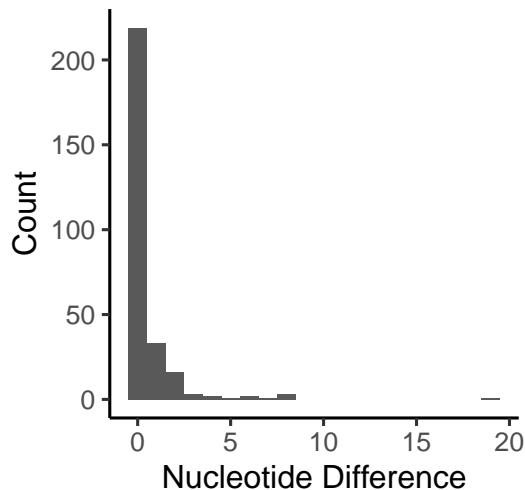


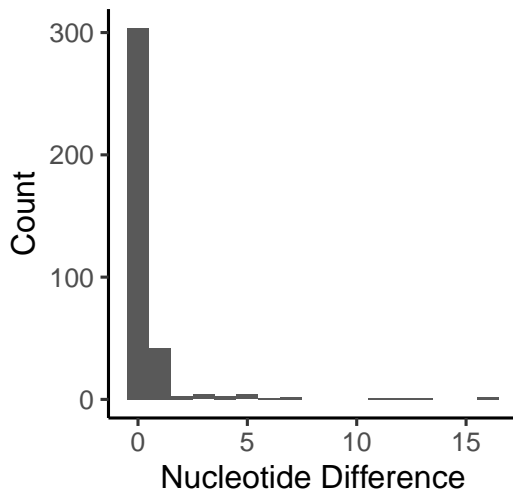
IGHV1-2*02

283 sequences assigned
219 (77.4%) exact matches, in which:
215 unique CDR3
6 unique J



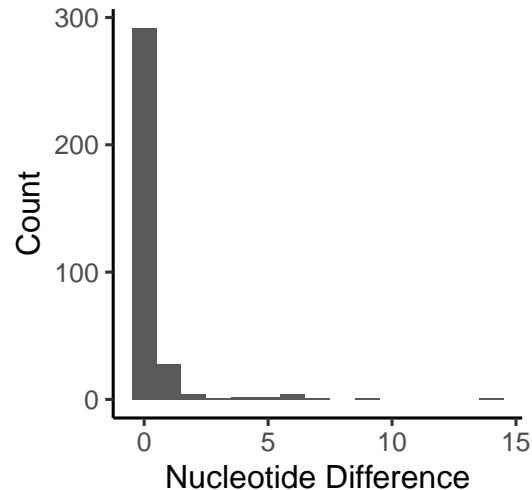
IGHV1-18*01

370 sequences assigned
304 (82.2%) exact matches, in which:
303 unique CDR3
6 unique J



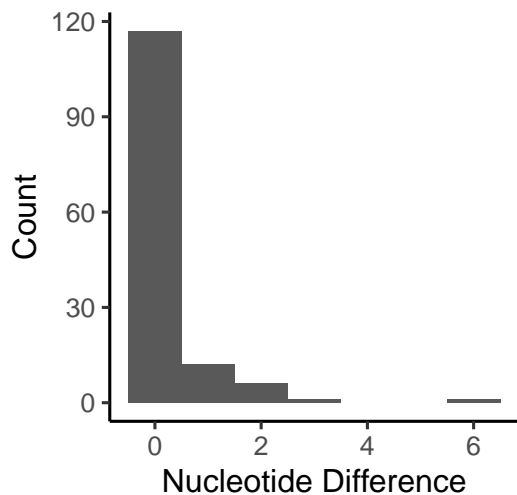
IGHV1-46*01

336 sequences assigned
292 (86.9%) exact matches, in which:
283 unique CDR3
6 unique J



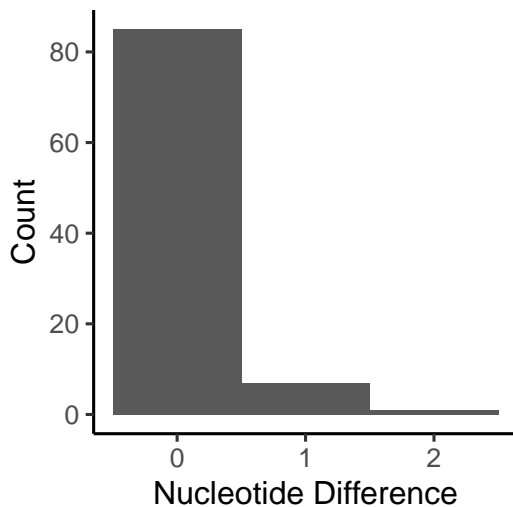
IGHV1-3*01

139 sequences assigned
117 (84.2%) exact matches, in which:
115 unique CDR3
6 unique J



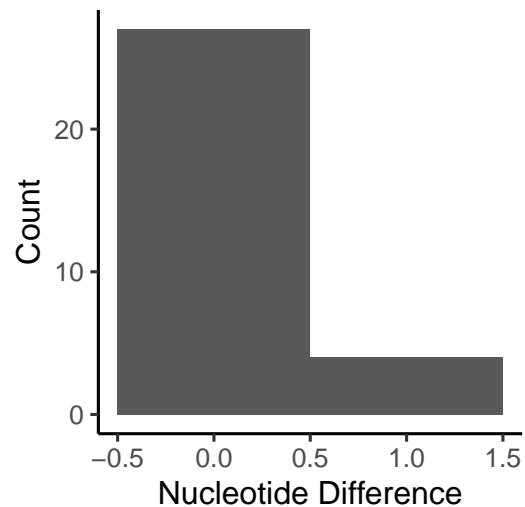
IGHV1-24*01

93 sequences assigned
85 (91.4%) exact matches, in which:
83 unique CDR3
6 unique J



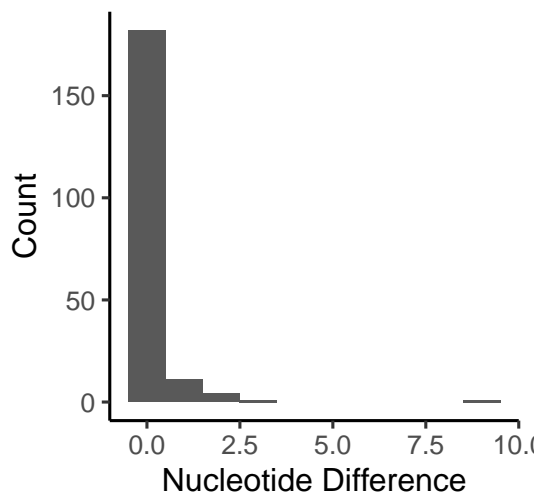
IGHV1-58*02

31 sequences assigned
27 (87.1%) exact matches, in which:
27 unique CDR3
5 unique J



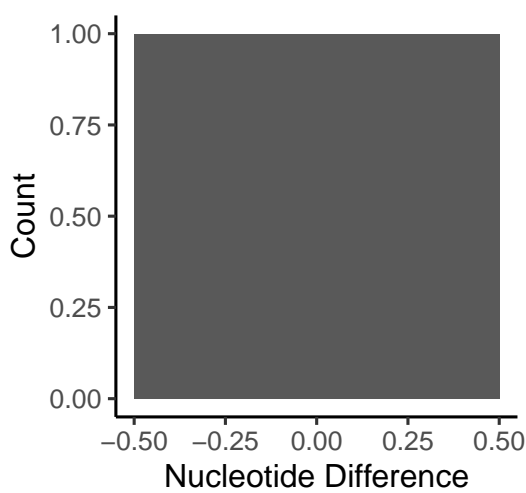
IGHV1-8*01

199 sequences assigned
182 (91.5%) exact matches, in which:
181 unique CDR3
6 unique J



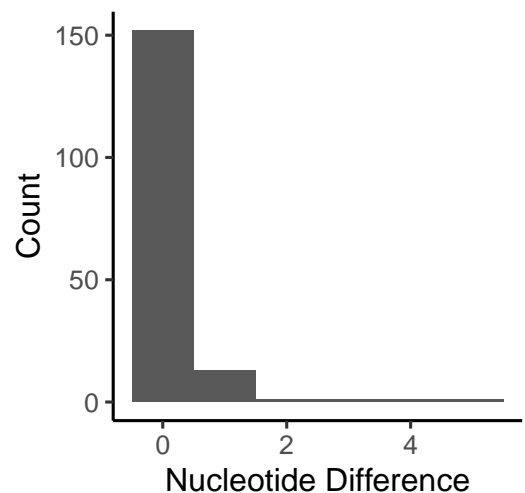
IGHV1-45*02

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



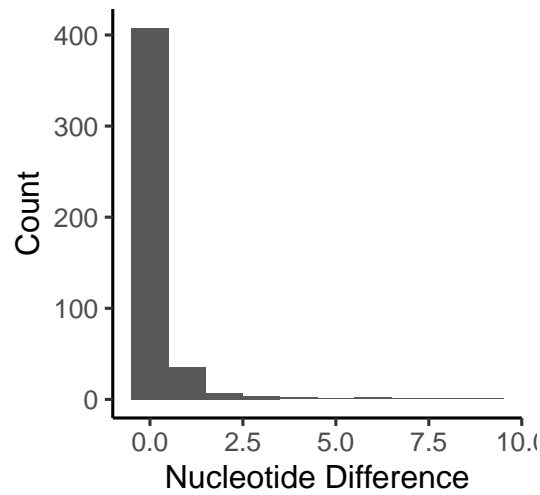
IGHV1-69*02

169 sequences assigned
152 (89.9%) exact matches, in which:
152 unique CDR3
6 unique J



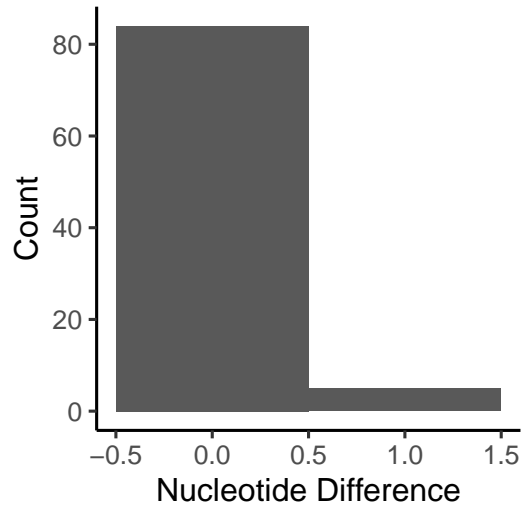
IGHV1–69*04

464 sequences assigned
408 (87.9%) exact matches, in which:
405 unique CDR3
6 unique J



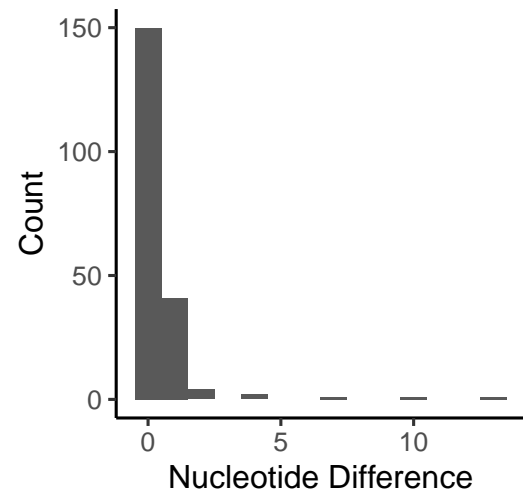
IGHV2–26*01

91 sequences assigned
84 (92.3%) exact matches, in which:
84 unique CDR3
5 unique J



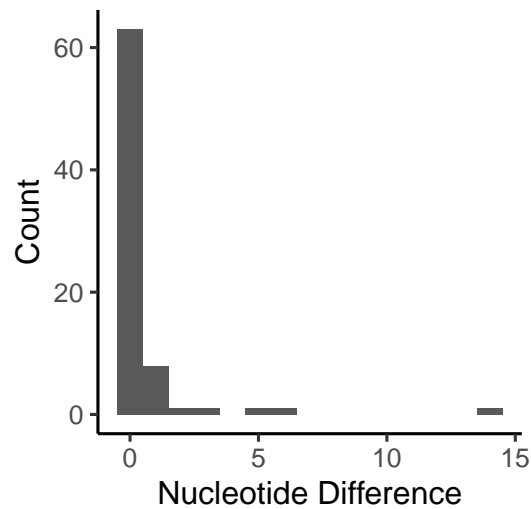
IGHV3–7*03

200 sequences assigned
150 (75%) exact matches, in which:
148 unique CDR3
5 unique J



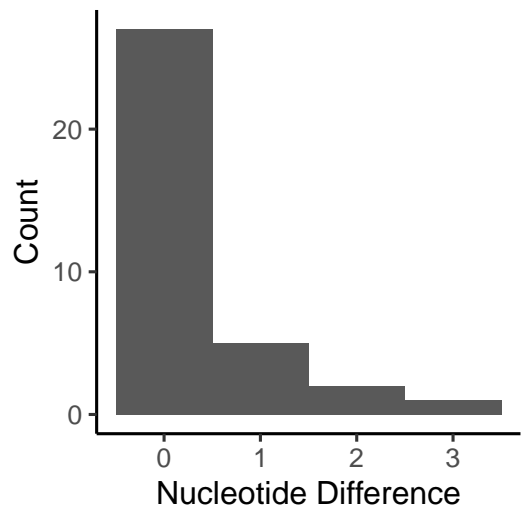
IGHV2–5*01

76 sequences assigned
63 (82.9%) exact matches, in which:
62 unique CDR3
6 unique J



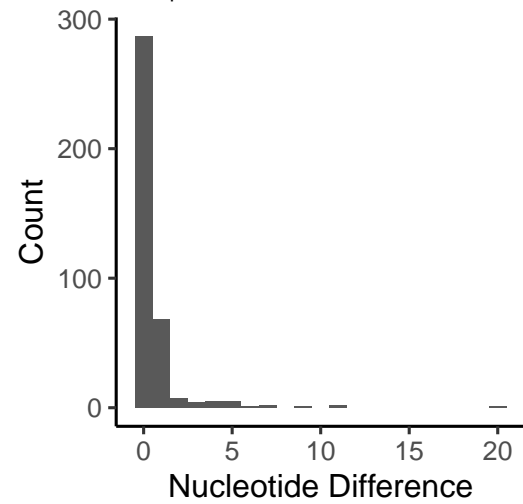
IGHV2–70*15

35 sequences assigned
27 (77.1%) exact matches, in which:
27 unique CDR3
4 unique J



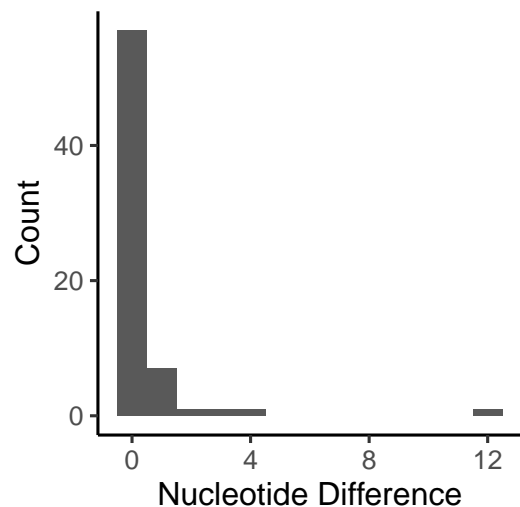
IGHV3–9*01

383 sequences assigned
287 (74.9%) exact matches, in which:
283 unique CDR3
6 unique J



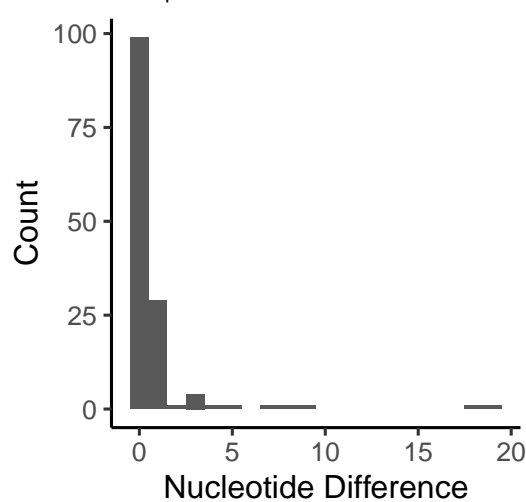
IGHV2–5*02

68 sequences assigned
57 (83.8%) exact matches, in which:
57 unique CDR3
6 unique J



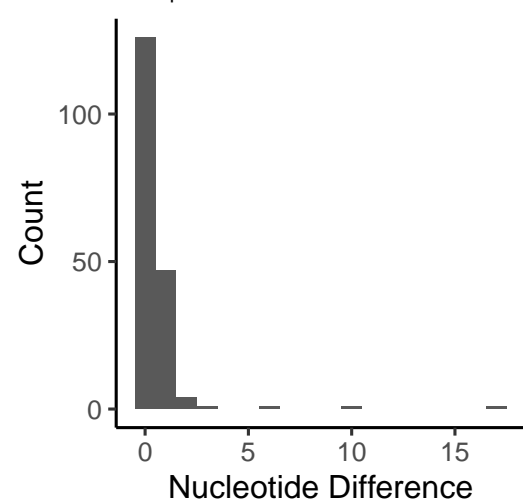
IGHV3–7*01

140 sequences assigned
99 (70.7%) exact matches, in which:
97 unique CDR3
5 unique J



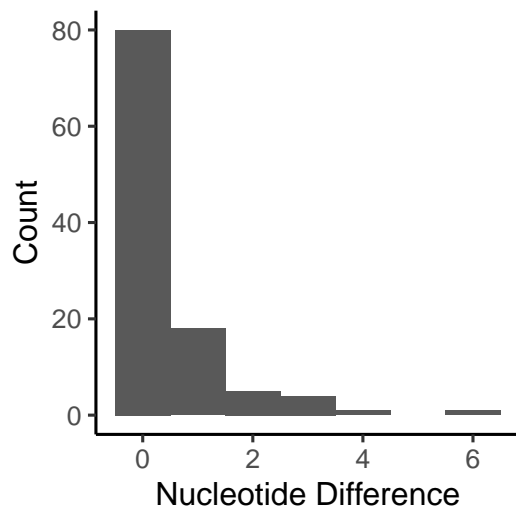
IGHV3–11*01

184 sequences assigned
126 (68.5%) exact matches, in which:
125 unique CDR3
5 unique J



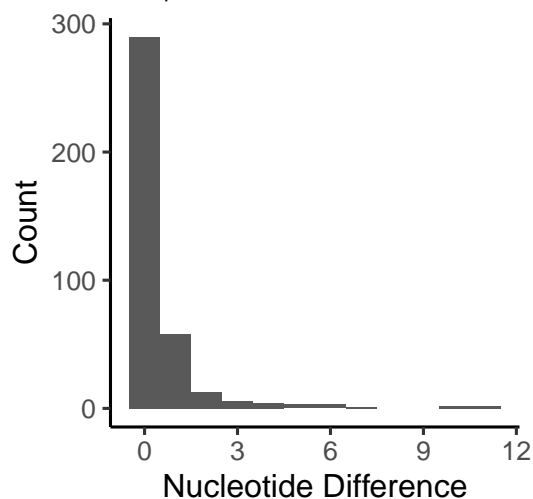
IGHV3-11*06

109 sequences assigned
80 (73.4%) exact matches, in which:
79 unique CDR3
6 unique J



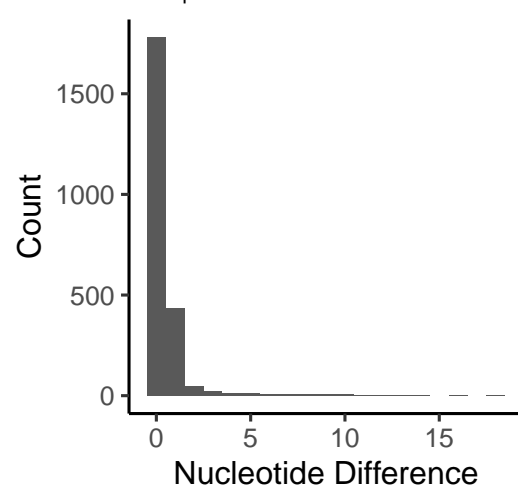
IGHV3-15*01

383 sequences assigned
290 (75.7%) exact matches, in which:
285 unique CDR3
6 unique J



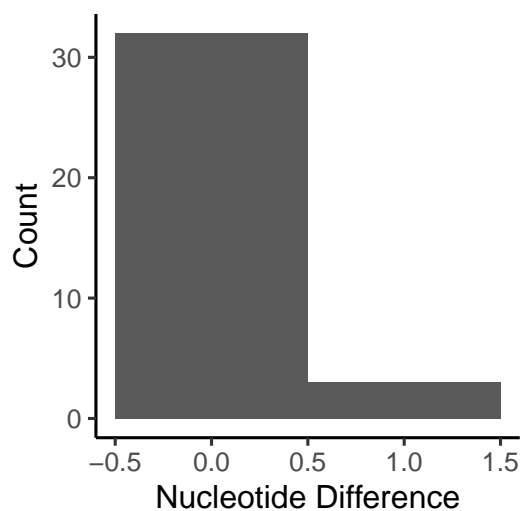
IGHV3-23*01

2365 sequences assigned
1780 (75.3%) exact matches, in which:
1751 unique CDR3
6 unique J



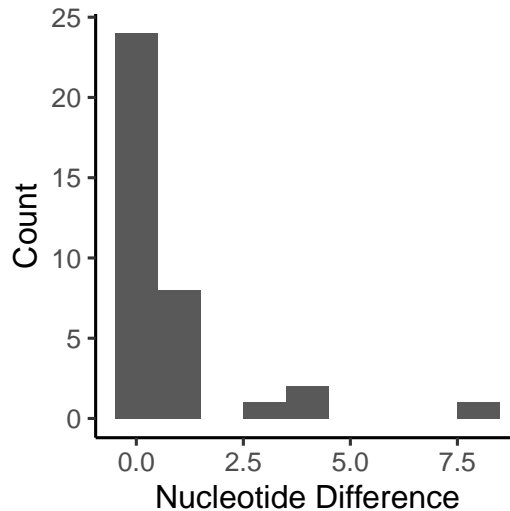
IGHV3-13*01

35 sequences assigned
32 (91.4%) exact matches, in which:
32 unique CDR3
5 unique J



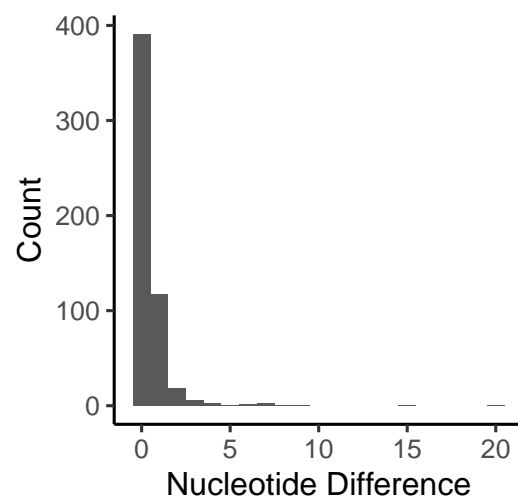
IGHV3-20*01

36 sequences assigned
24 (66.7%) exact matches, in which:
23 unique CDR3
5 unique J



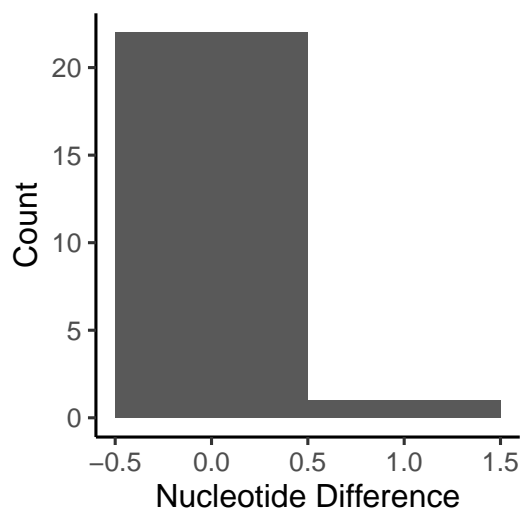
IGHV3-30-3*01

545 sequences assigned
391 (71.7%) exact matches, in which:
385 unique CDR3
6 unique J



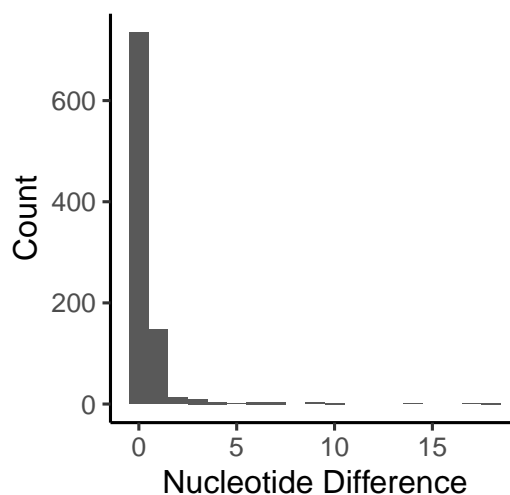
IGHV3-13*05

23 sequences assigned
22 (95.7%) exact matches, in which:
21 unique CDR3
4 unique J



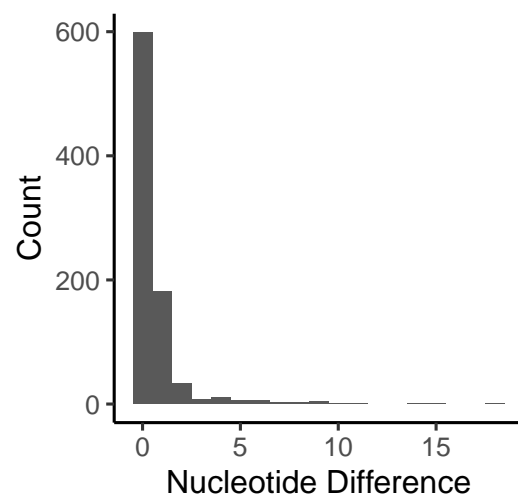
IGHV3-21*01

927 sequences assigned
735 (79.3%) exact matches, in which:
722 unique CDR3
6 unique J



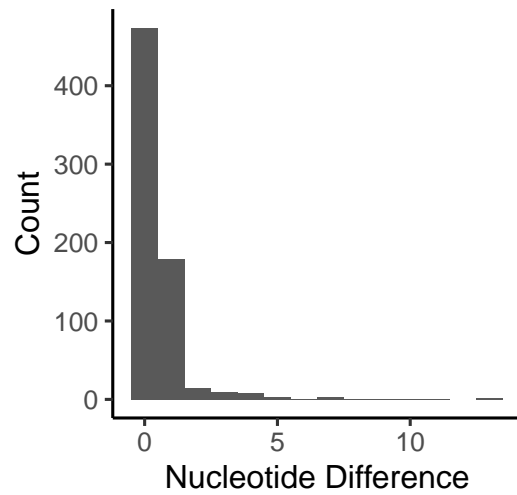
IGHV3-30*18

855 sequences assigned
599 (70.1%) exact matches, in which:
589 unique CDR3
6 unique J



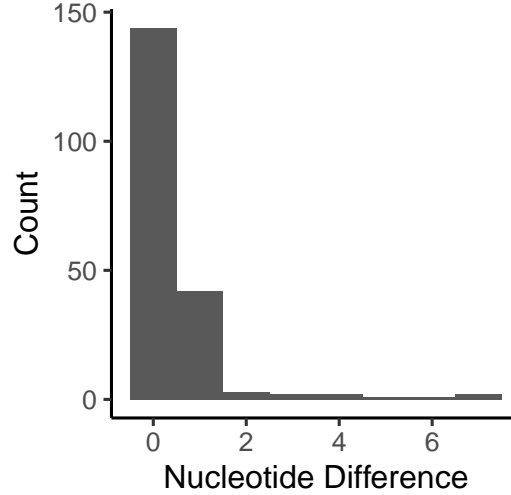
IGHV3–33*01

698 sequences assigned
474 (67.9%) exact matches, in which:
465 unique CDR3
6 unique J



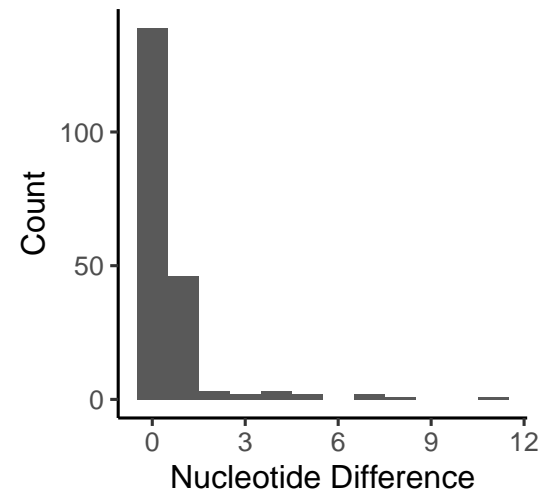
IGHV3–49*03

203 sequences assigned
144 (70.9%) exact matches, in which:
140 unique CDR3
6 unique J



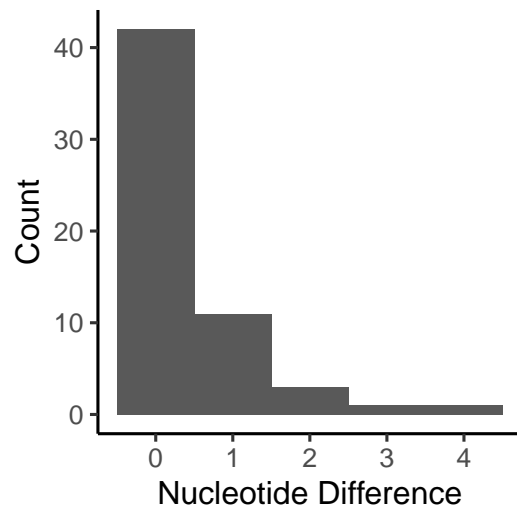
IGHV3–66*01

199 sequences assigned
139 (69.8%) exact matches, in which:
138 unique CDR3
6 unique J



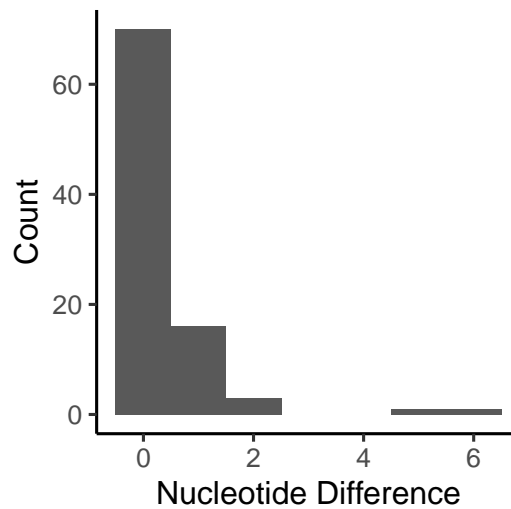
IGHV3–43*01

58 sequences assigned
42 (72.4%) exact matches, in which:
41 unique CDR3
5 unique J



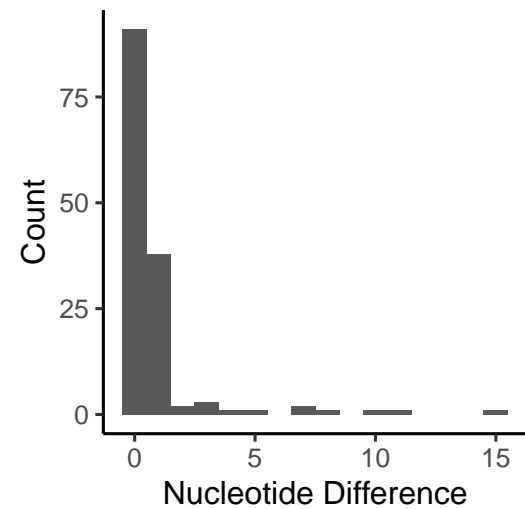
IGHV3–53*02

91 sequences assigned
70 (76.9%) exact matches, in which:
69 unique CDR3
6 unique J



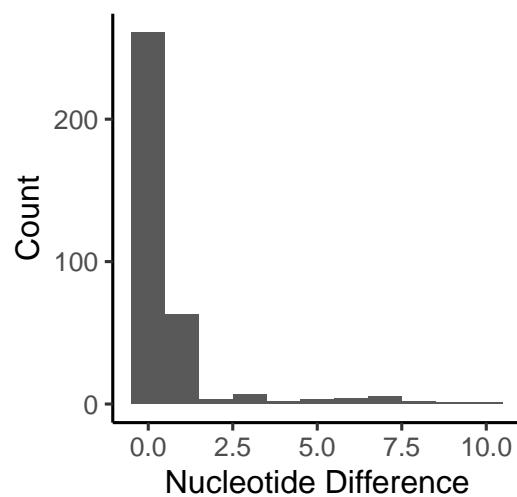
IGHV3–66*02

142 sequences assigned
91 (64.1%) exact matches, in which:
90 unique CDR3
6 unique J



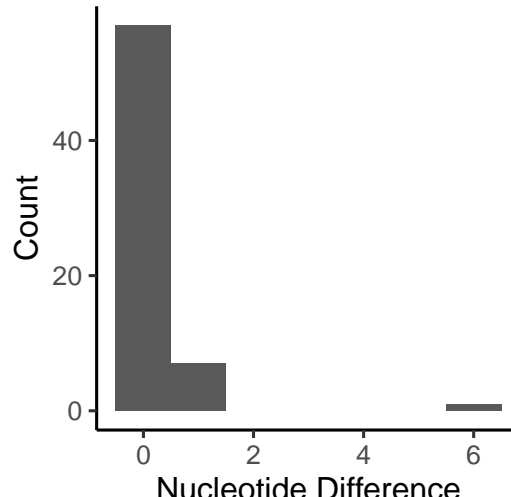
IGHV3–48*01

352 sequences assigned
261 (74.1%) exact matches, in which:
258 unique CDR3
6 unique J



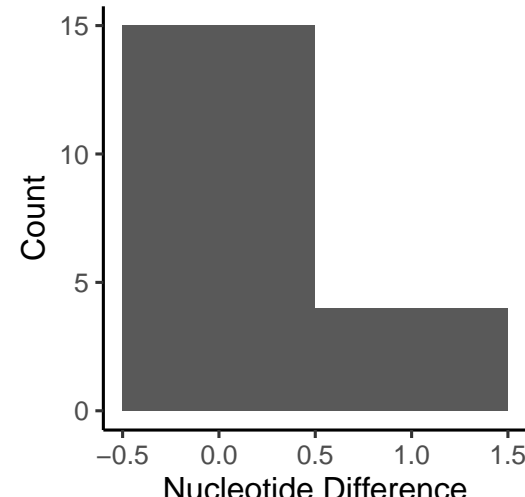
IGHV3–64*01

65 sequences assigned
57 (87.7%) exact matches, in which:
57 unique CDR3
5 unique J



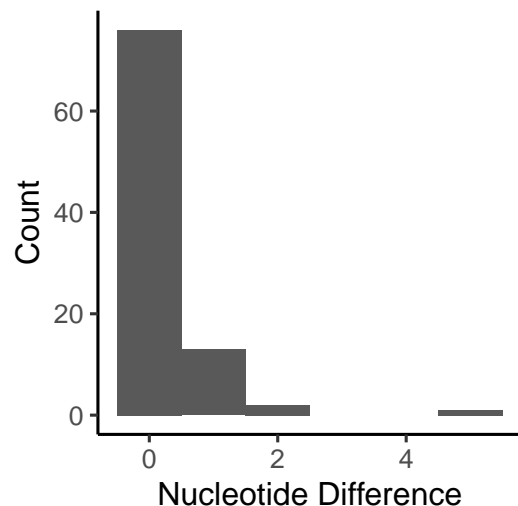
IGHV3–72*01

19 sequences assigned
15 (78.9%) exact matches, in which:
15 unique CDR3
5 unique J



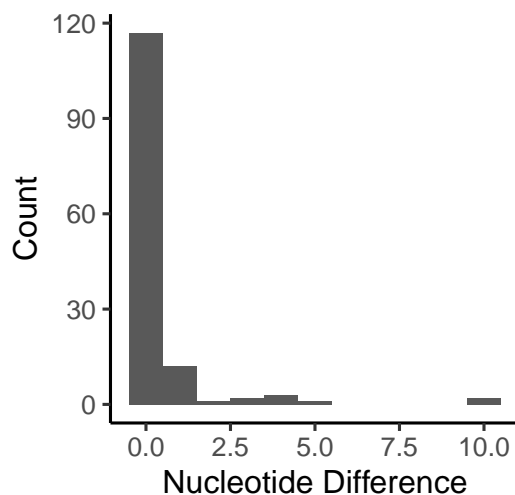
IGHV3-73*01

92 sequences assigned
76 (82.6%) exact matches, in which:
75 unique CDR3
4 unique J



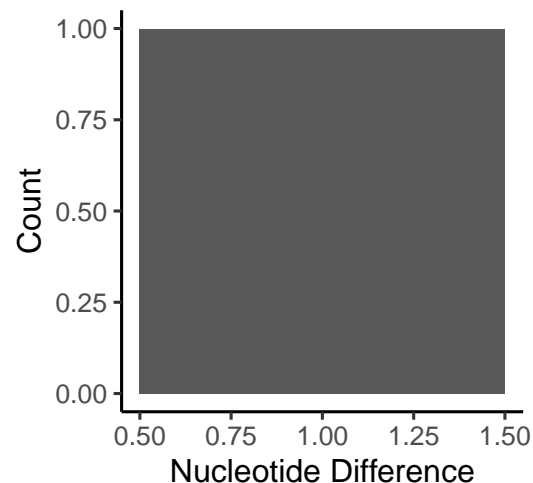
IGHV4-4*02

138 sequences assigned
117 (84.8%) exact matches, in which:
117 unique CDR3
6 unique J



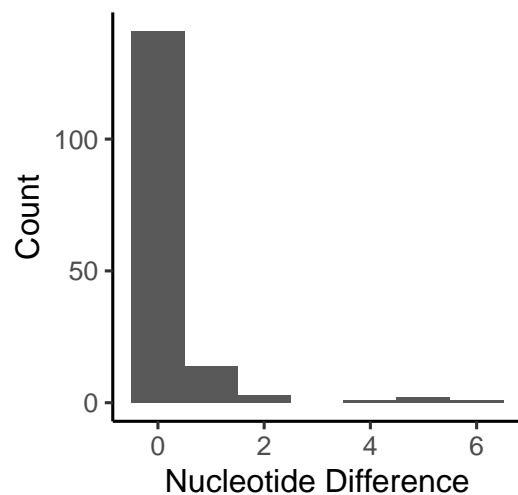
IGHV4-28*04

1 sequences assigned
No exact matches.



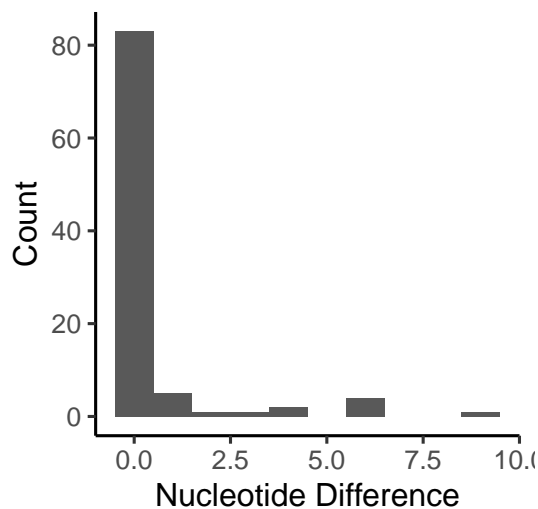
IGHV3-74*01

163 sequences assigned
141 (86.5%) exact matches, in which:
140 unique CDR3
6 unique J



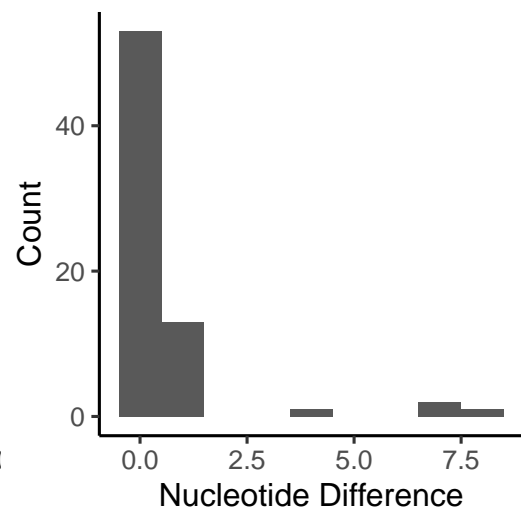
IGHV4-4*07

97 sequences assigned
83 (85.6%) exact matches, in which:
82 unique CDR3
5 unique J



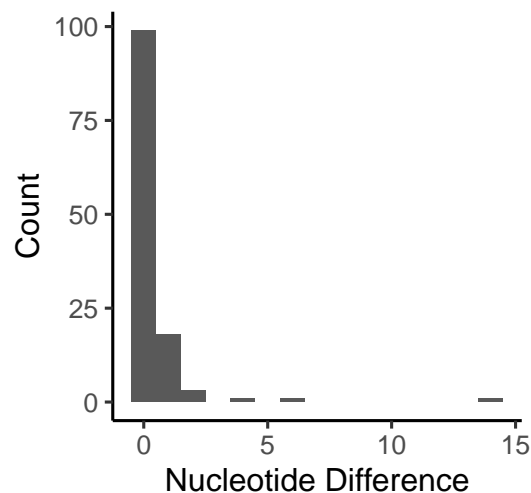
IGHV4-30-2*01

70 sequences assigned
53 (75.7%) exact matches, in which:
52 unique CDR3
5 unique J



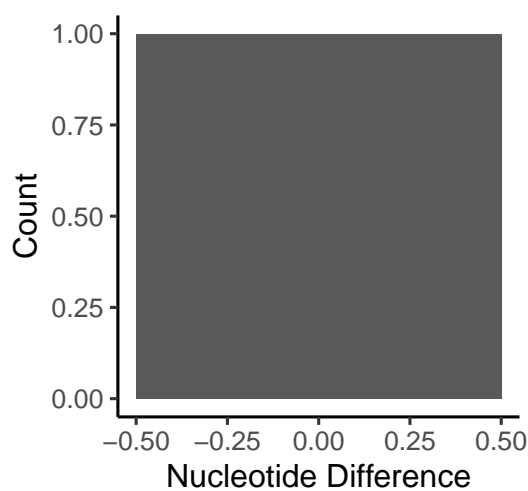
IGHV3-64D*06

123 sequences assigned
99 (80.5%) exact matches, in which:
99 unique CDR3
6 unique J



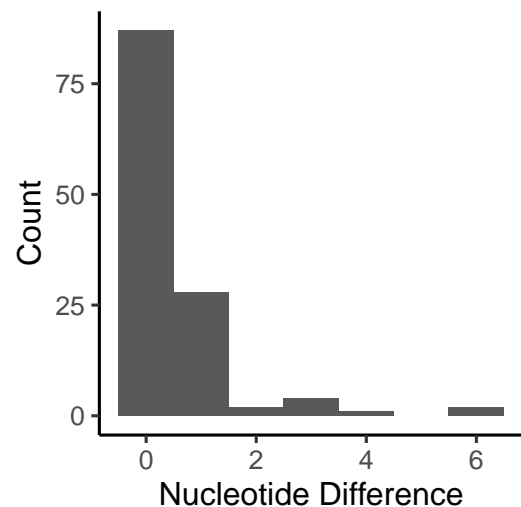
IGHV4-28*01

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



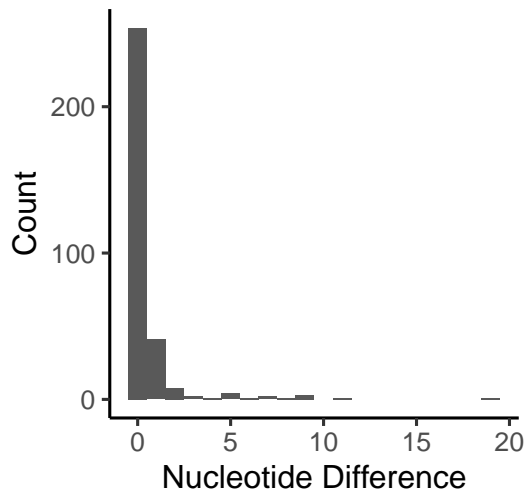
IGHV4-30-4*01

124 sequences assigned
87 (70.2%) exact matches, in which:
87 unique CDR3
6 unique J



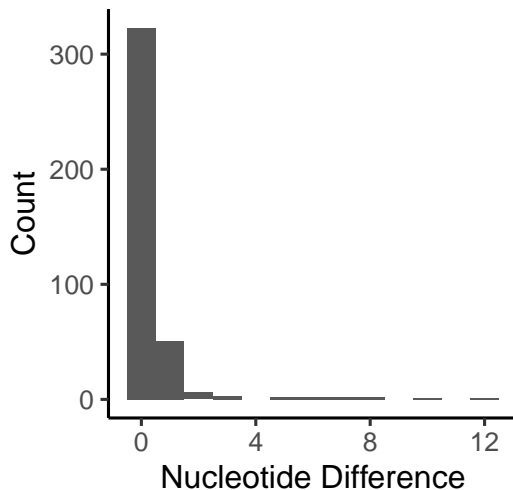
IGHV4–31*03

319 sequences assigned
254 (79.6%) exact matches, in which:
252 unique CDR3
6 unique J



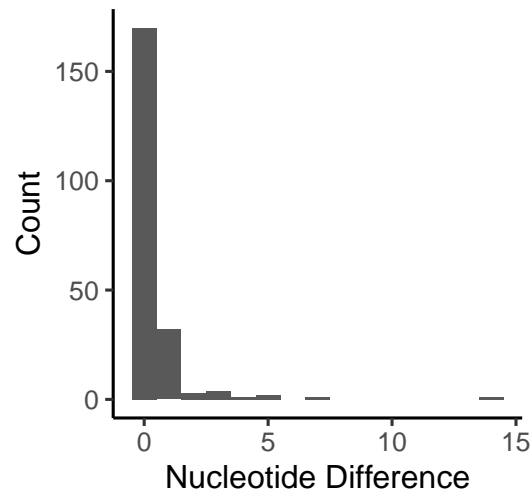
IGHV4–39*07

393 sequences assigned
323 (82.2%) exact matches, in which:
316 unique CDR3
6 unique J



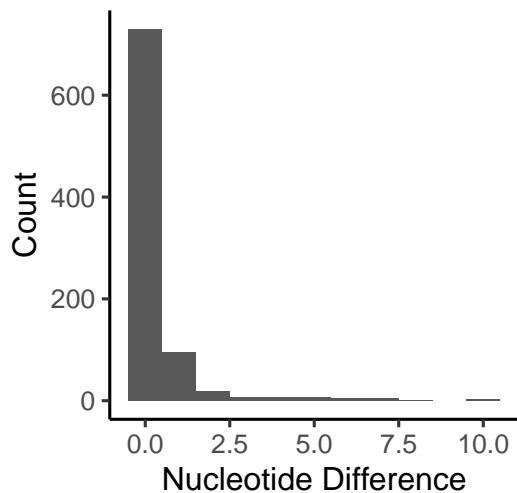
IGHV4–59*08

214 sequences assigned
170 (79.4%) exact matches, in which:
169 unique CDR3
6 unique J



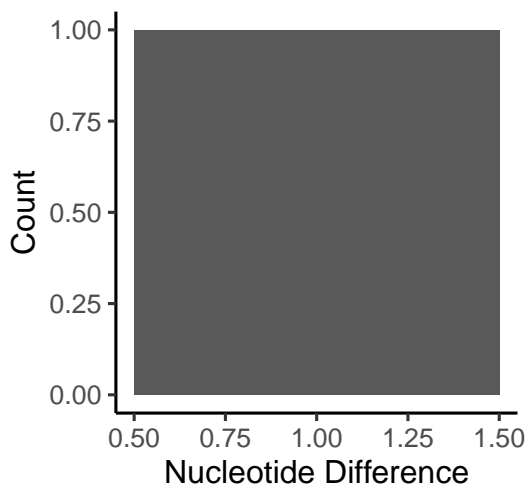
IGHV4–34*01

876 sequences assigned
730 (83.3%) exact matches, in which:
721 unique CDR3
6 unique J



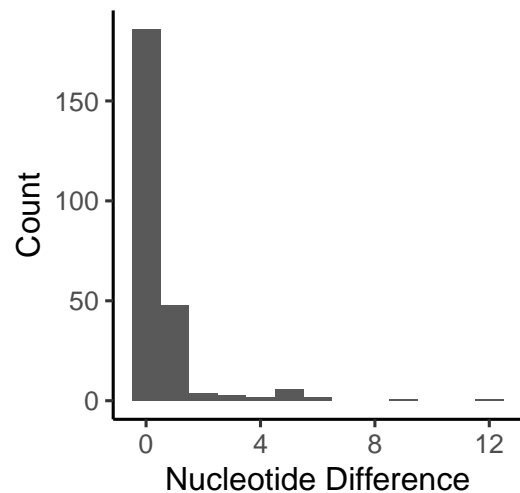
IGHV4–55*08

1 sequences assigned
No exact matches.



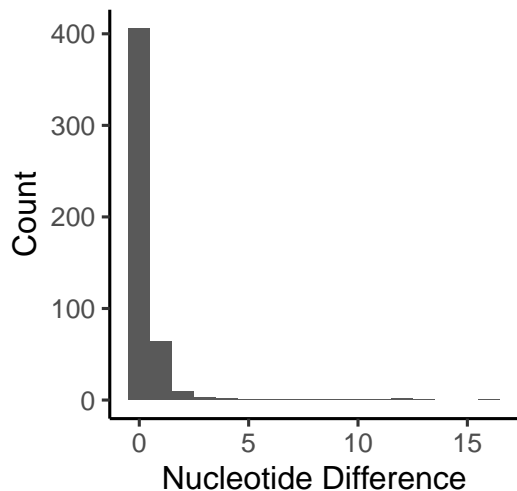
IGHV4–61*02

253 sequences assigned
186 (73.5%) exact matches, in which:
185 unique CDR3
6 unique J



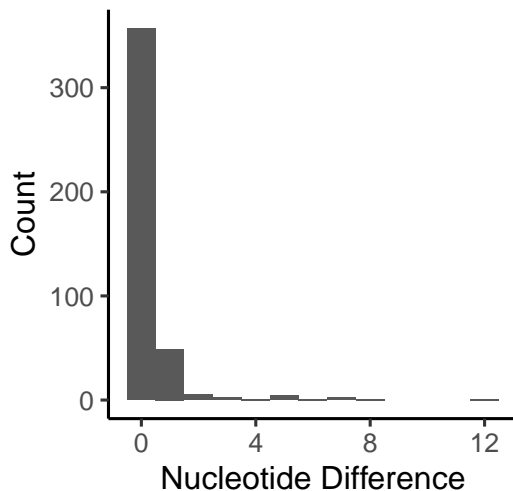
IGHV4–39*01

497 sequences assigned
406 (81.7%) exact matches, in which:
396 unique CDR3
6 unique J



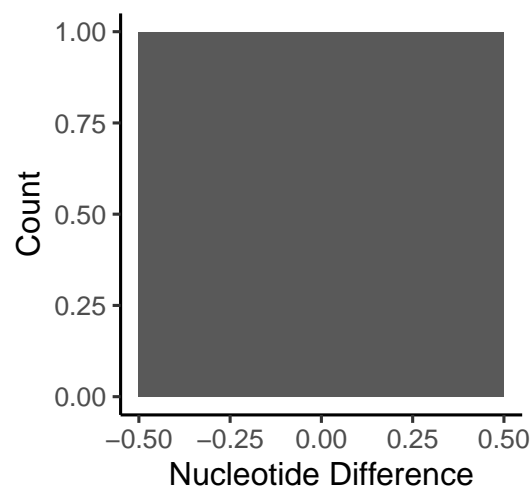
IGHV4–59*01

423 sequences assigned
357 (84.4%) exact matches, in which:
353 unique CDR3
6 unique J



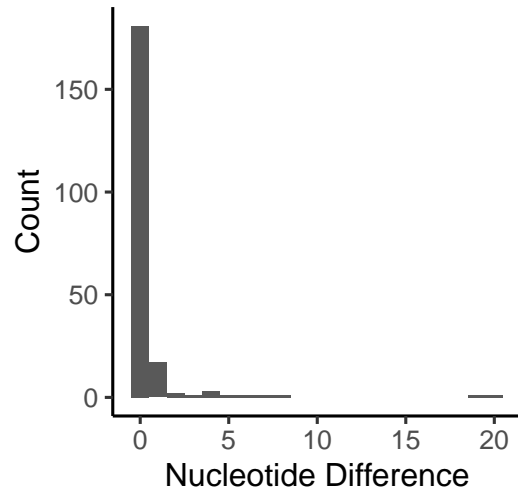
IGHV1/OR15–2*01

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



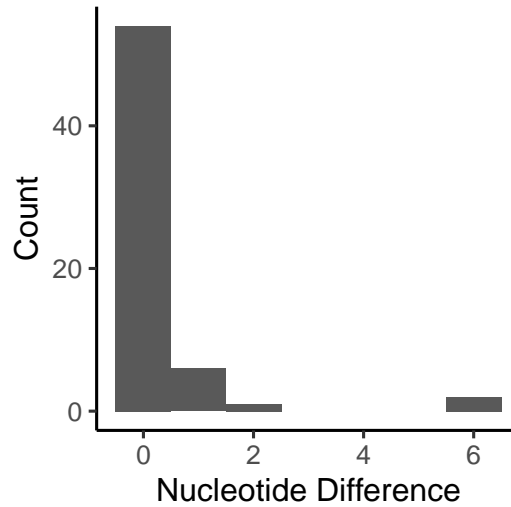
IGHV5-10-1*03

210 sequences assigned
181 (86.2%) exact matches, in which:
180 unique CDR3
6 unique J



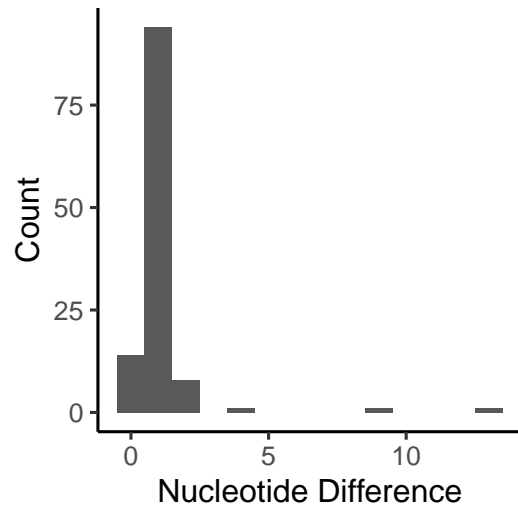
IGHV6-1*01

63 sequences assigned
54 (85.7%) exact matches, in which:
52 unique CDR3
4 unique J



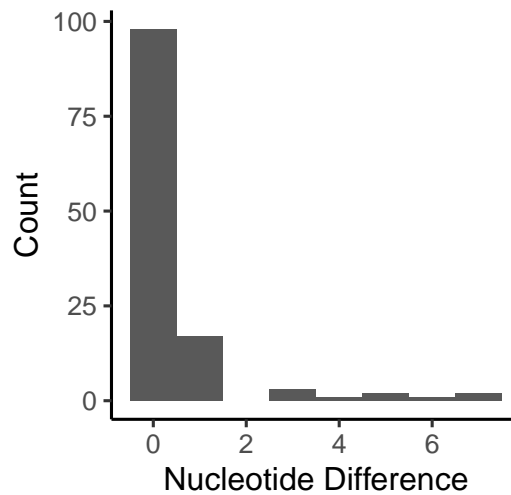
IGHV5-51*01

119 sequences assigned
14 (11.8%) exact matches, in which:
14 unique CDR3
5 unique J



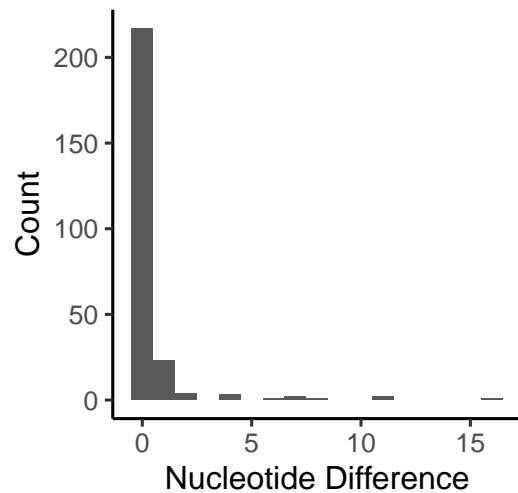
IGHV7-4-1*02

124 sequences assigned
98 (79%) exact matches, in which:
98 unique CDR3
6 unique J



IGHV5-51*03

255 sequences assigned
217 (85.1%) exact matches, in which:
214 unique CDR3
6 unique J





Warning – no inferred sequences found.