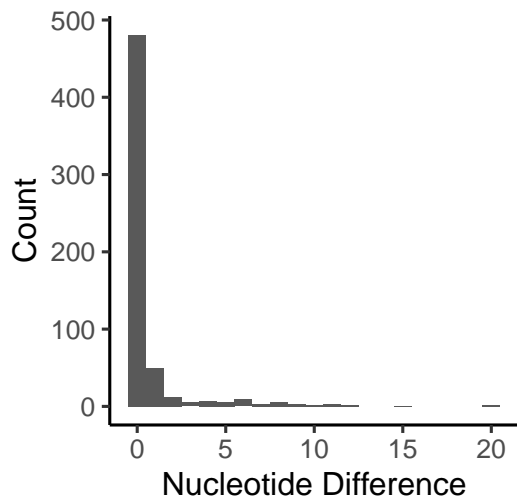


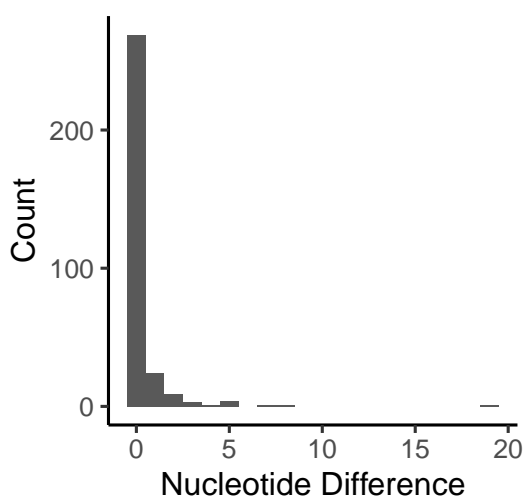
IGHV1-2*02

593 sequences assigned
481 (81.1%) exact matches, in which:
455 unique CDR3
6 unique J



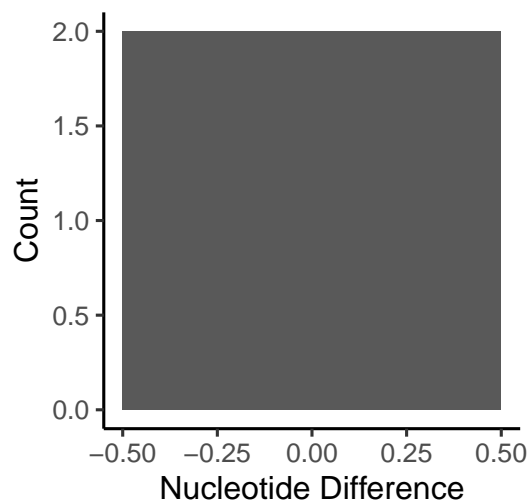
IGHV1-8*01

315 sequences assigned
269 (85.4%) exact matches, in which:
253 unique CDR3
6 unique J



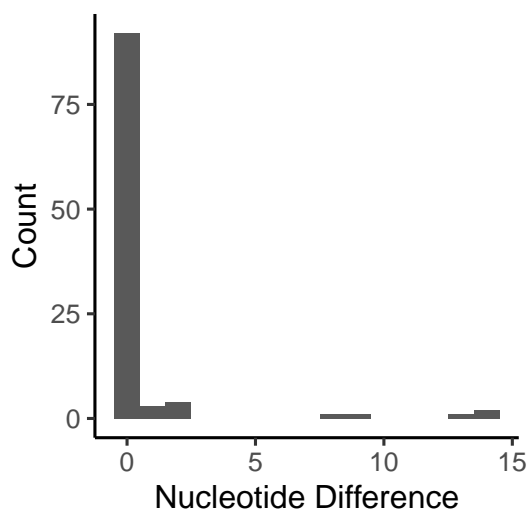
IGHV1-38-4*01

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



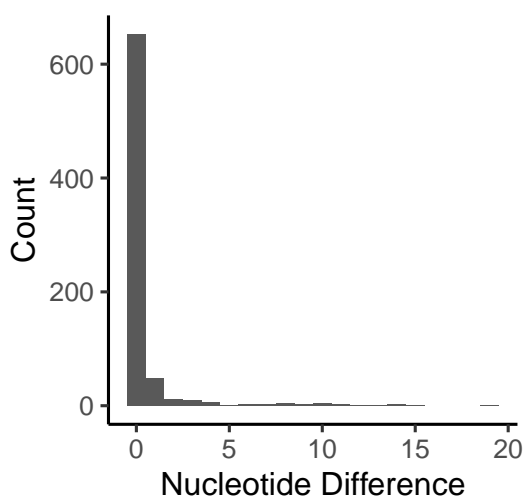
IGHV1-2*04

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



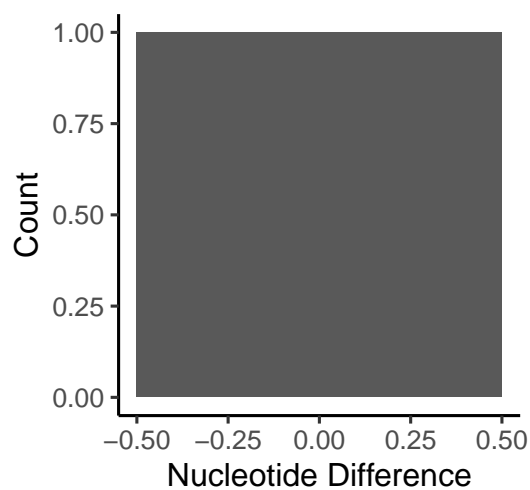
IGHV1-18*01

759 sequences assigned
653 (86%) exact matches, in which:
628 unique CDR3
6 unique J



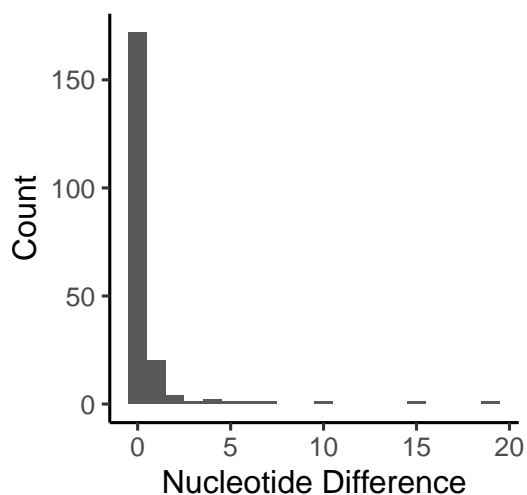
IGHV1-45*02

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



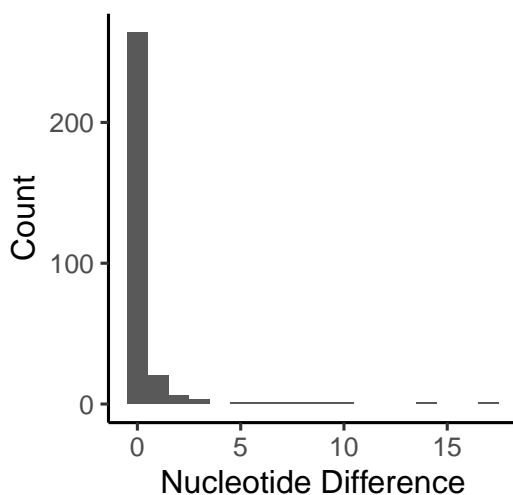
IGHV1-3*01

206 sequences assigned
172 (83.5%) exact matches, in which:
165 unique CDR3
5 unique J



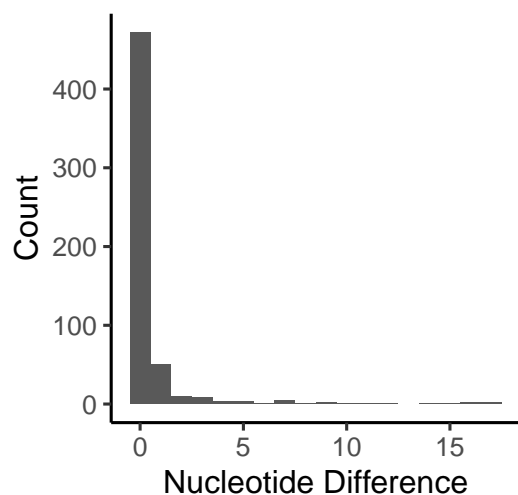
IGHV1-24*01

301 sequences assigned
264 (87.7%) exact matches, in which:
248 unique CDR3
6 unique J



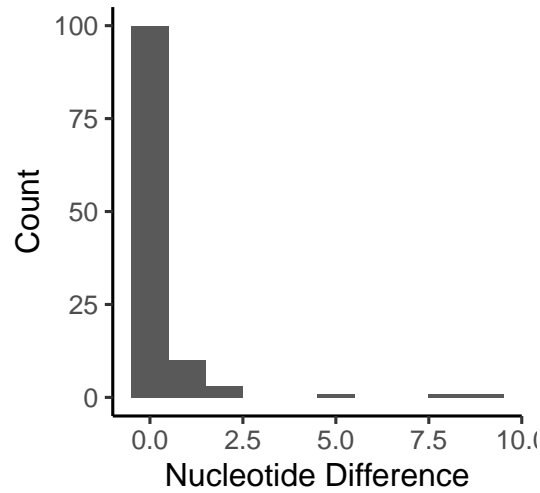
IGHV1-46*01

566 sequences assigned
472 (83.4%) exact matches, in which:
445 unique CDR3
6 unique J



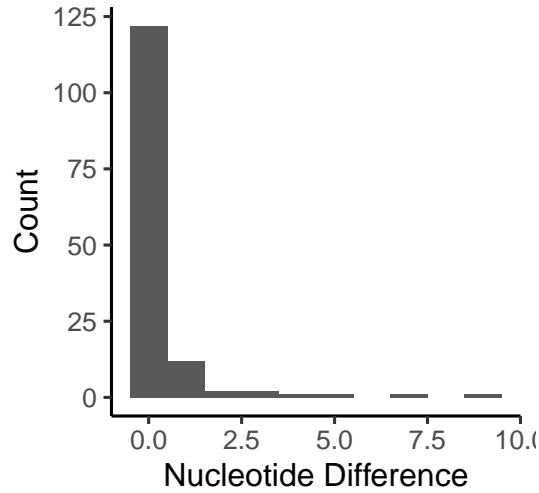
IGHV1–58*01

116 sequences assigned
100 (86.2%) exact matches, in which:
99 unique CDR3
6 unique J



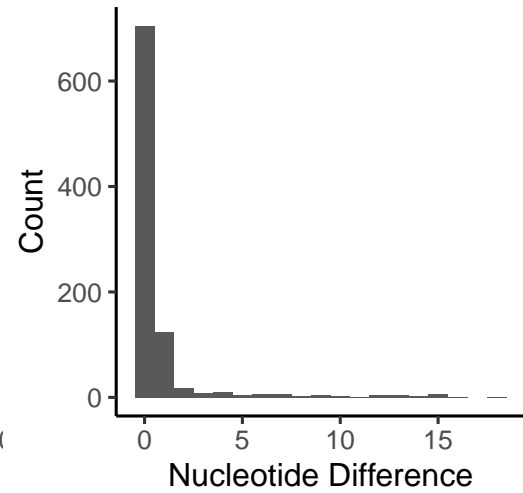
IGHV2–70*01

142 sequences assigned
122 (85.9%) exact matches, in which:
121 unique CDR3
5 unique J



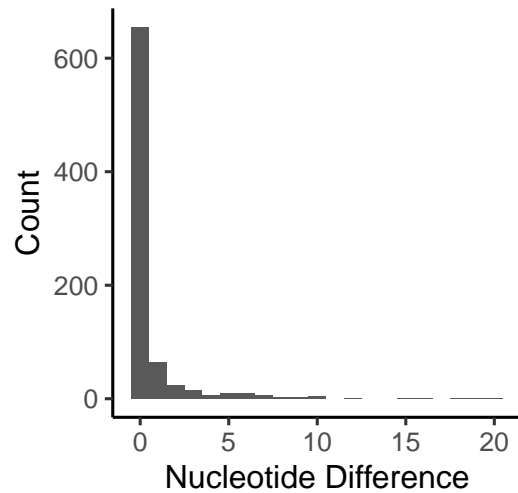
IGHV3–9*01

915 sequences assigned
705 (77%) exact matches, in which:
644 unique CDR3
6 unique J



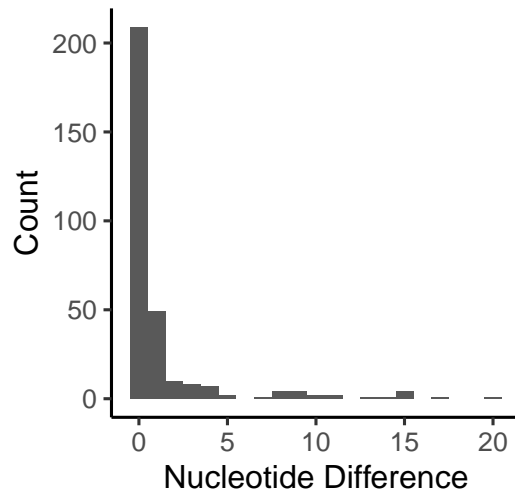
IGHV2–5*02

809 sequences assigned
655 (81%) exact matches, in which:
630 unique CDR3
6 unique J



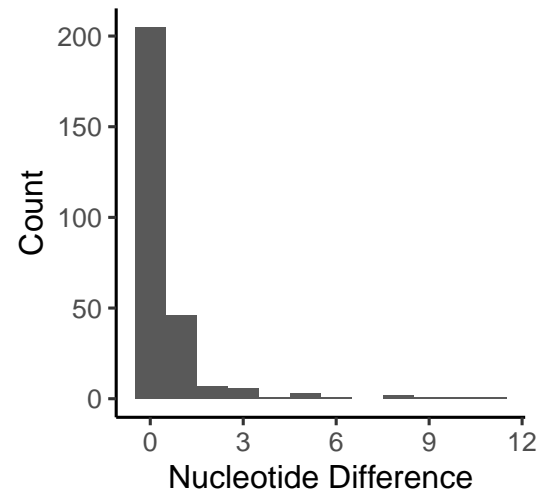
IGHV3–7*01

307 sequences assigned
209 (68.1%) exact matches, in which:
194 unique CDR3
6 unique J



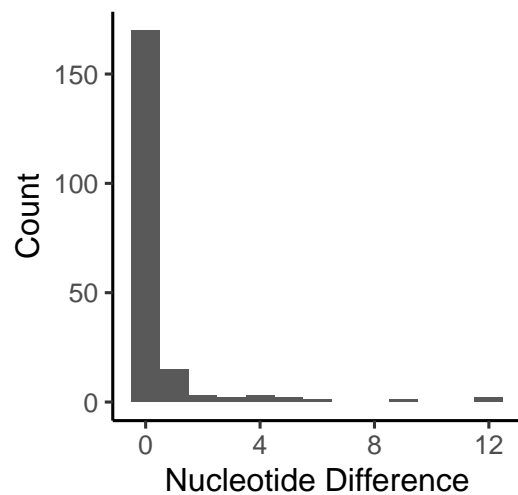
IGHV3–11*01

275 sequences assigned
205 (74.5%) exact matches, in which:
190 unique CDR3
6 unique J



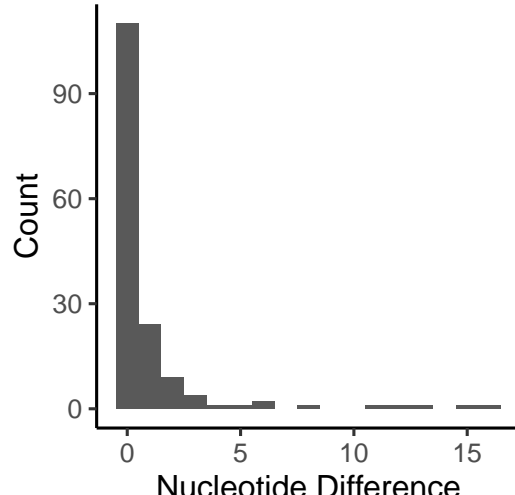
IGHV2–26*01

199 sequences assigned
170 (85.4%) exact matches, in which:
168 unique CDR3
5 unique J



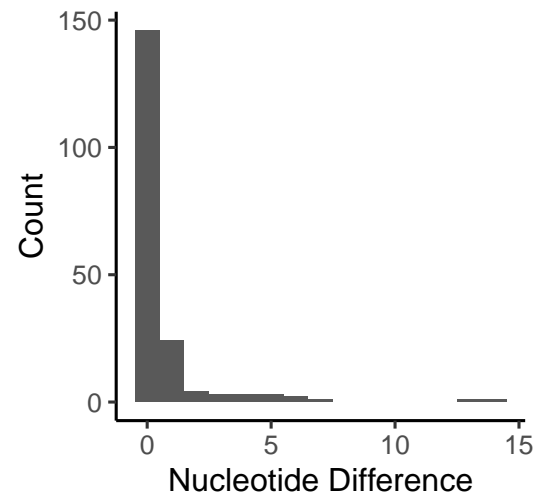
IGHV3–7*04

159 sequences assigned
110 (69.2%) exact matches, in which:
105 unique CDR3
6 unique J



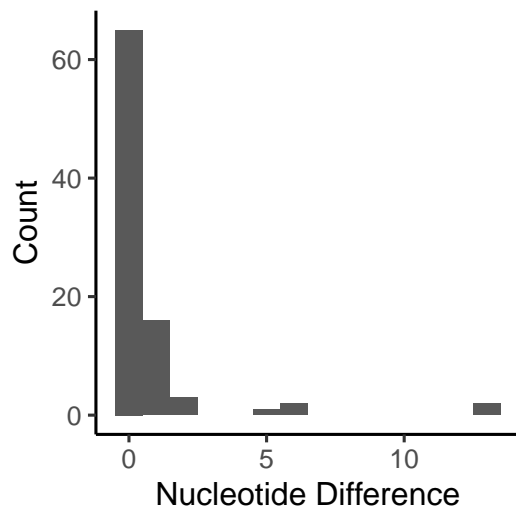
IGHV3–11*06

191 sequences assigned
146 (76.4%) exact matches, in which:
134 unique CDR3
5 unique J



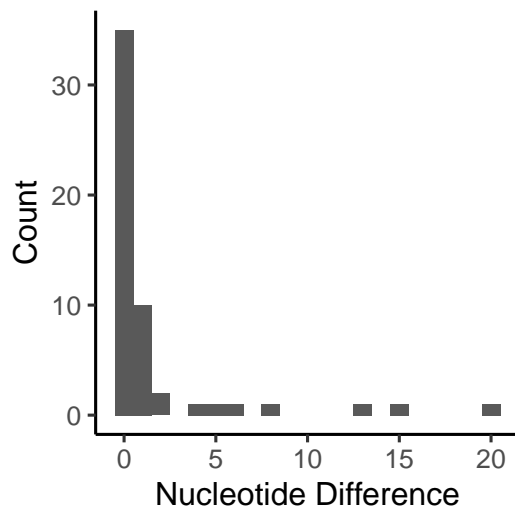
IGHV3-13*01

91 sequences assigned
65 (71.4%) exact matches, in which:
62 unique CDR3
5 unique J



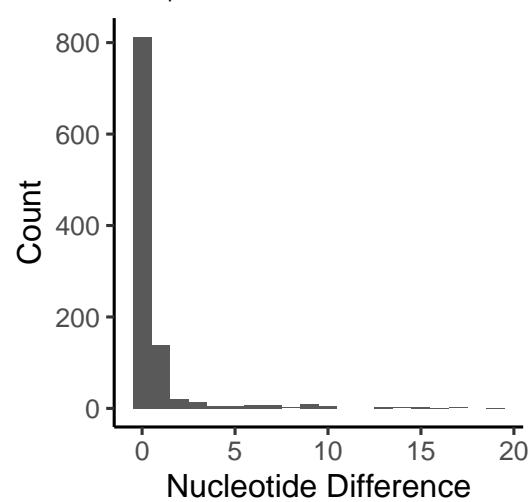
IGHV3-20*01

54 sequences assigned
35 (64.8%) exact matches, in which:
33 unique CDR3
5 unique J



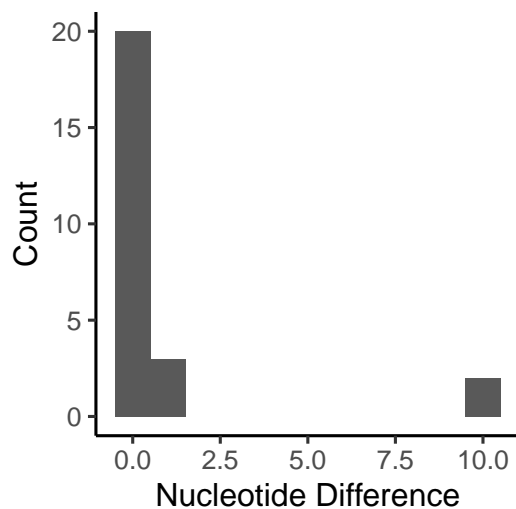
IGHV3-30-3*01

1041 sequences assigned
813 (78.1%) exact matches, in which:
742 unique CDR3
6 unique J



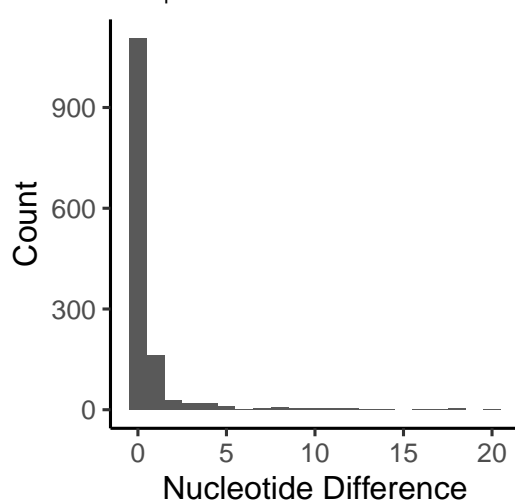
IGHV3-13*05

25 sequences assigned
20 (80%) exact matches, in which:
20 unique CDR3
4 unique J



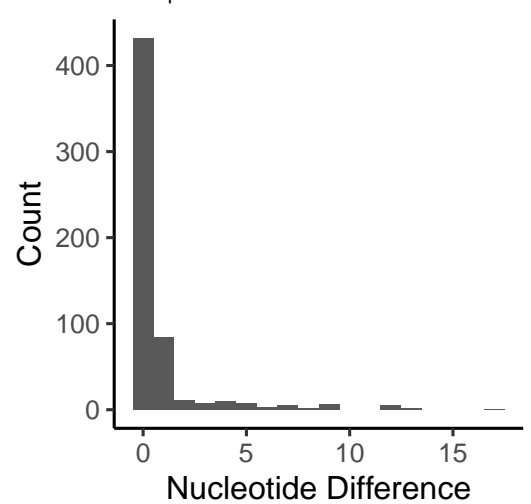
IGHV3-21*01

1389 sequences assigned
1107 (79.7%) exact matches, in which:
1023 unique CDR3
6 unique J



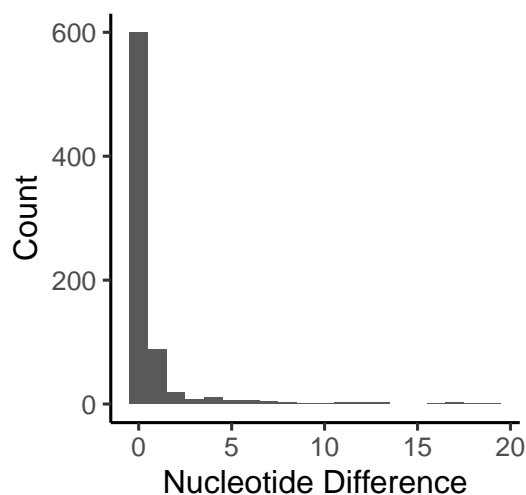
IGHV3-33*01

575 sequences assigned
432 (75.1%) exact matches, in which:
390 unique CDR3
6 unique J



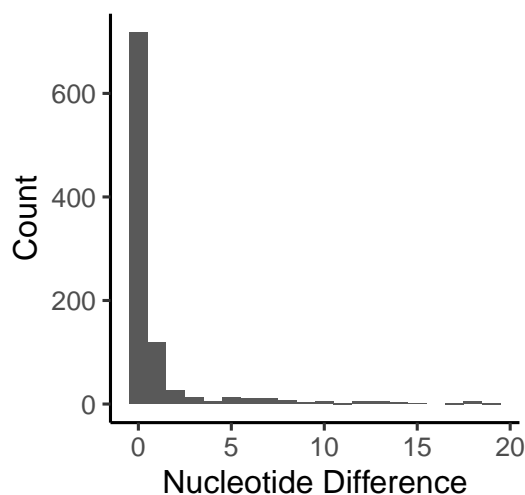
IGHV3-15*01

757 sequences assigned
600 (79.3%) exact matches, in which:
551 unique CDR3
6 unique J



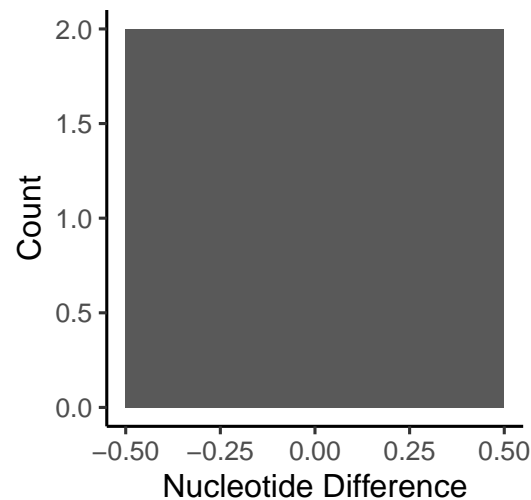
IGHV3-23*04

956 sequences assigned
718 (75.1%) exact matches, in which:
652 unique CDR3
6 unique J



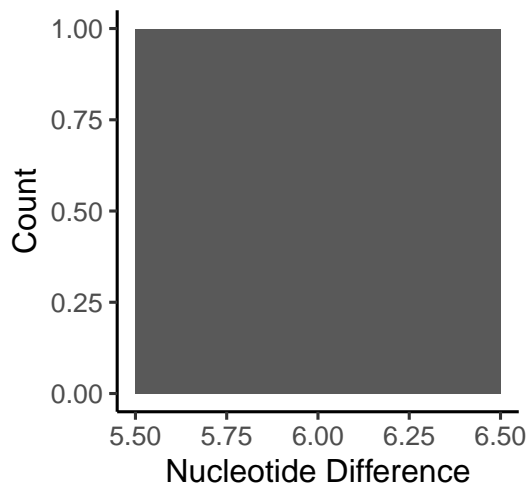
IGHV3-35*01

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



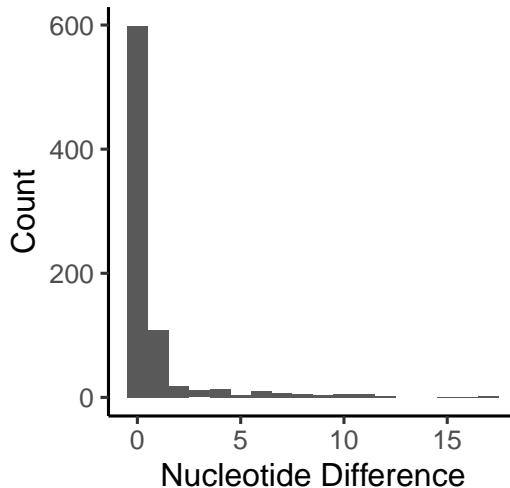
IGHV3-35*02

1 sequences assigned
No exact matches.



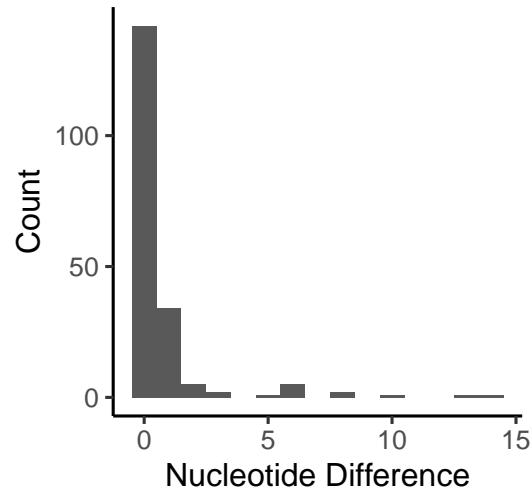
IGHV3-48*03

800 sequences assigned
599 (74.9%) exact matches, in which:
559 unique CDR3
6 unique J



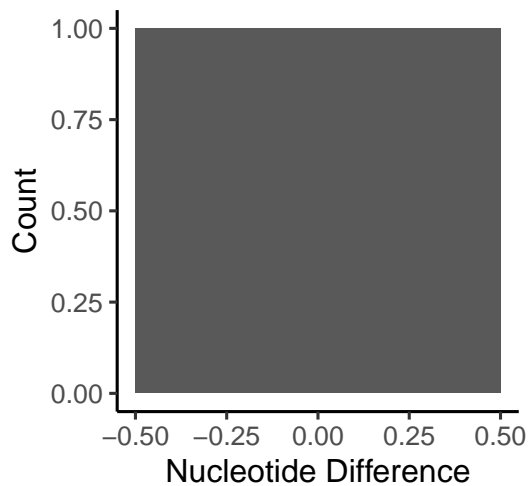
IGHV3-49*04

195 sequences assigned
142 (72.8%) exact matches, in which:
132 unique CDR3
6 unique J



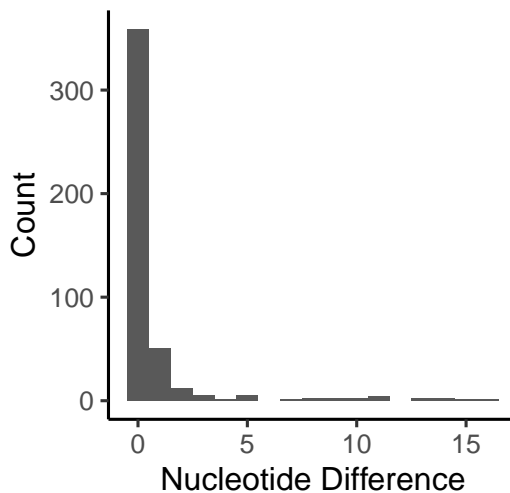
IGHV3-38-3*01

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



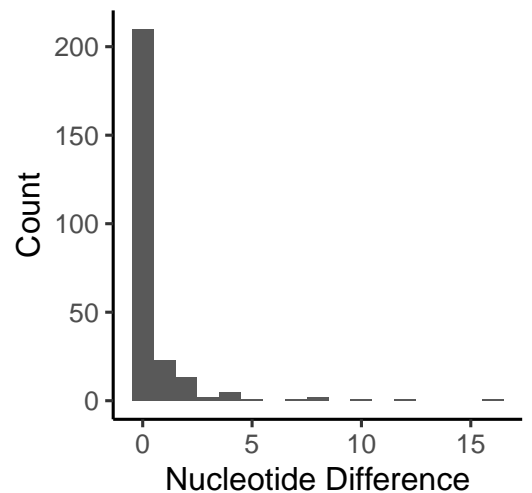
IGHV3-48*04

452 sequences assigned
359 (79.4%) exact matches, in which:
339 unique CDR3
6 unique J



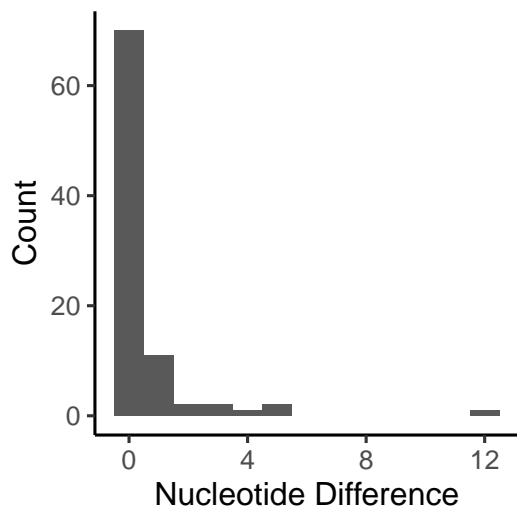
IGHV3-53*01

260 sequences assigned
210 (80.8%) exact matches, in which:
196 unique CDR3
6 unique J



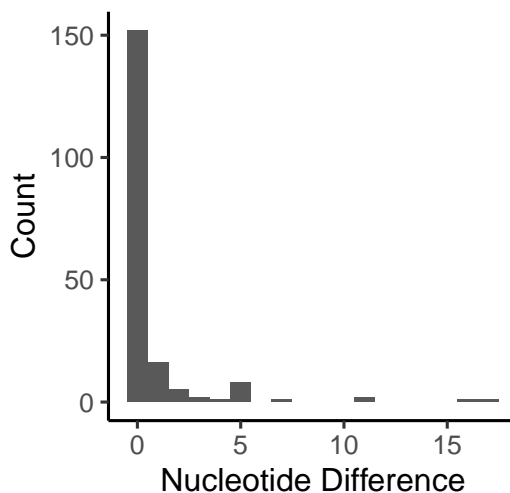
IGHV3-43*01

89 sequences assigned
70 (78.7%) exact matches, in which:
65 unique CDR3
5 unique J



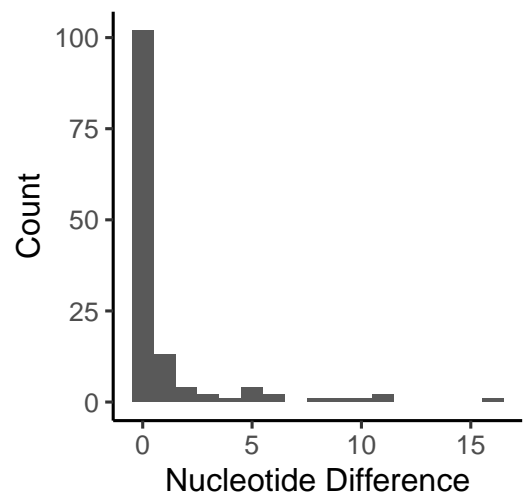
IGHV3-49*03

189 sequences assigned
152 (80.4%) exact matches, in which:
133 unique CDR3
5 unique J



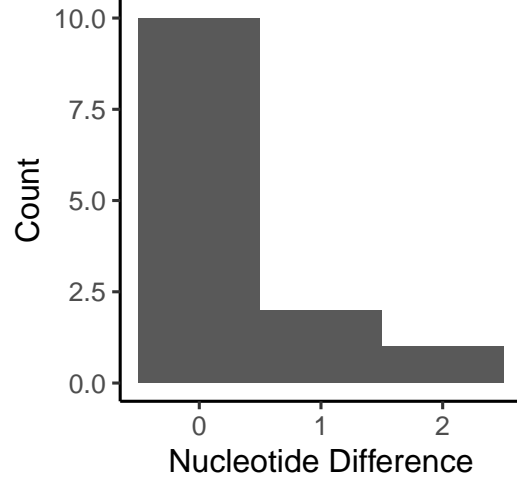
IGHV3-53*02

134 sequences assigned
102 (76.1%) exact matches, in which:
94 unique CDR3
6 unique J



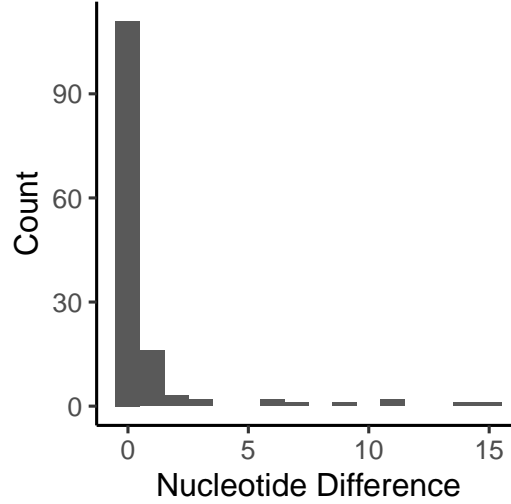
IGHV3-64*02

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



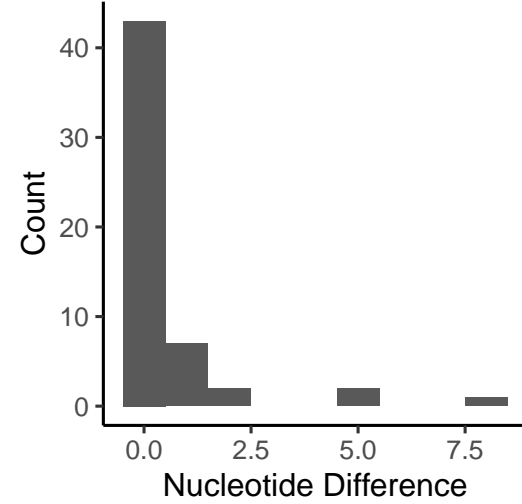
IGHV3-73*02

141 sequences assigned
111 (78.7%) exact matches, in which:
99 unique CDR3
5 unique J



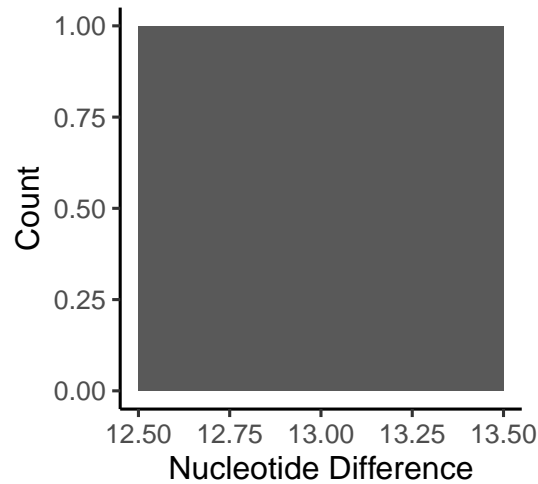
IGHV3-43D*04

55 sequences assigned
43 (78.2%) exact matches, in which:
41 unique CDR3
5 unique J



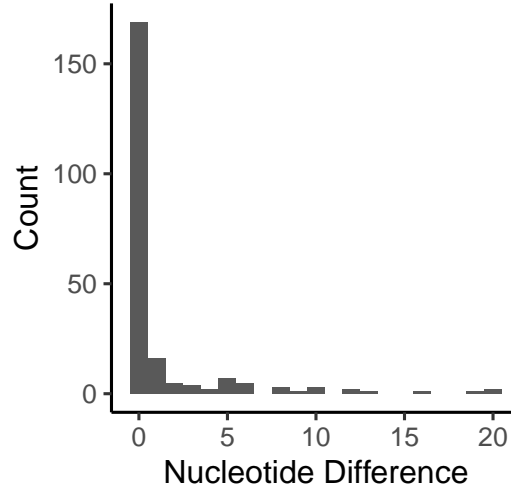
IGHV3-69-1*01

1 sequences assigned
No exact matches.



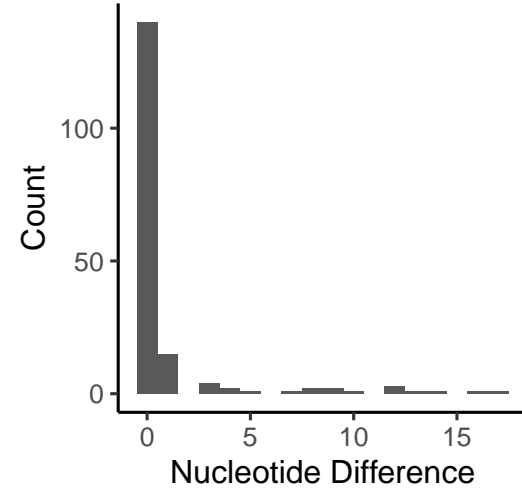
IGHV3-74*01

224 sequences assigned
169 (75.4%) exact matches, in which:
158 unique CDR3
5 unique J



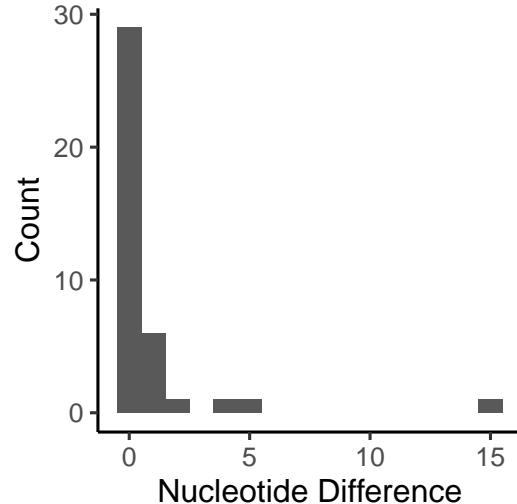
IGHV3-64D*06

176 sequences assigned
140 (79.5%) exact matches, in which:
124 unique CDR3
6 unique J



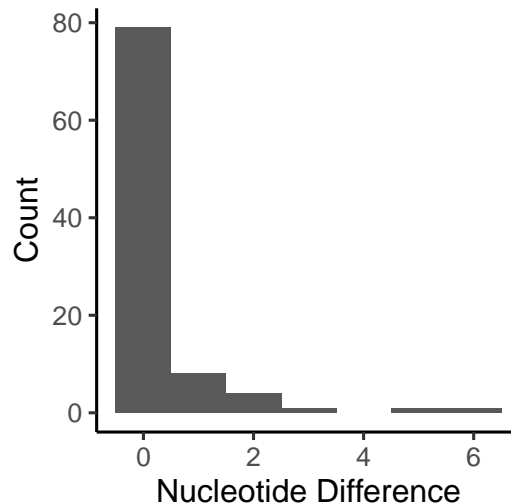
IGHV3-72*01

40 sequences assigned
29 (72.5%) exact matches, in which:
28 unique CDR3
4 unique J



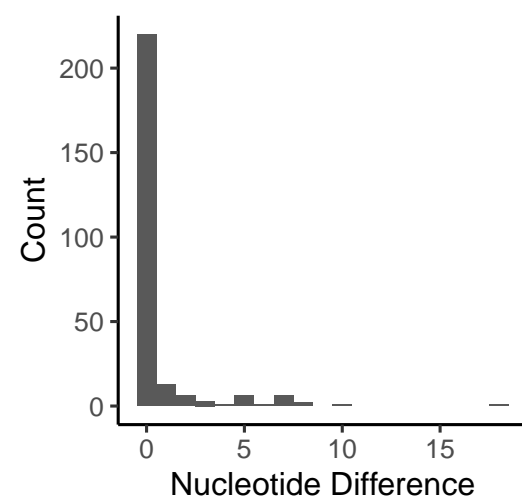
IGHV3-43D*03

94 sequences assigned
79 (84%) exact matches, in which:
75 unique CDR3
5 unique J



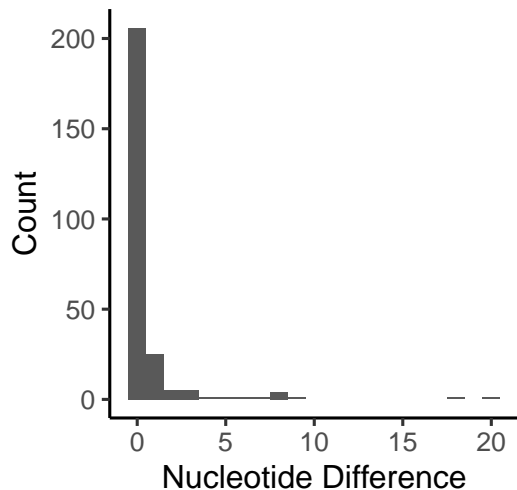
IGHV4-4*02

261 sequences assigned
220 (84.3%) exact matches, in which:
214 unique CDR3
6 unique J



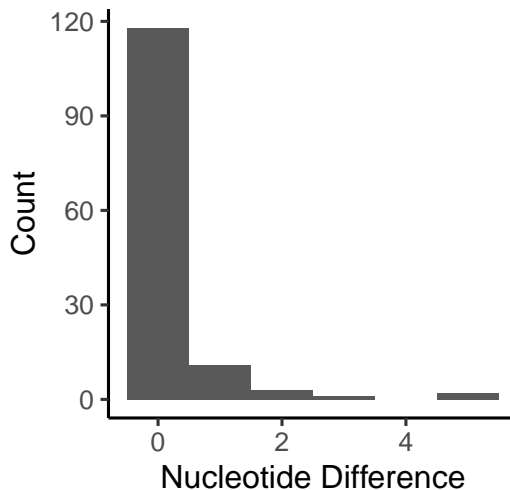
IGHV4-4*07

252 sequences assigned
206 (81.7%) exact matches, in which:
201 unique CDR3
6 unique J



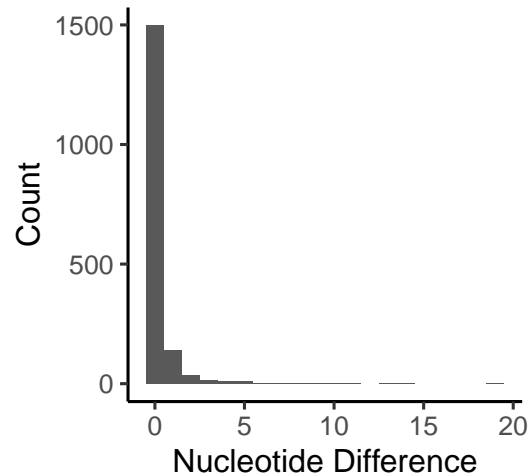
IGHV4-30-2*01

135 sequences assigned
118 (87.4%) exact matches, in which:
112 unique CDR3
6 unique J



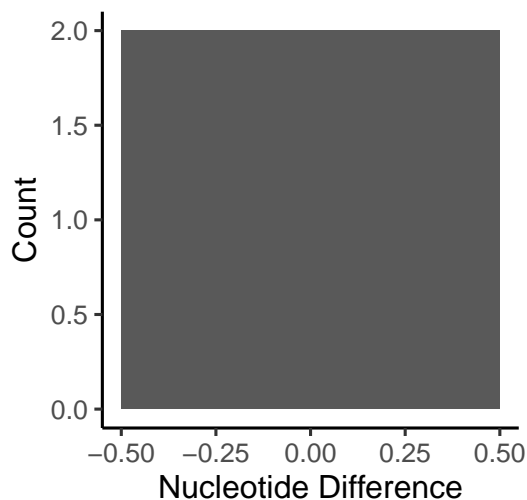
IGHV4-34*01

1736 sequences assigned
1498 (86.3%) exact matches, in which:
1406 unique CDR3
6 unique J



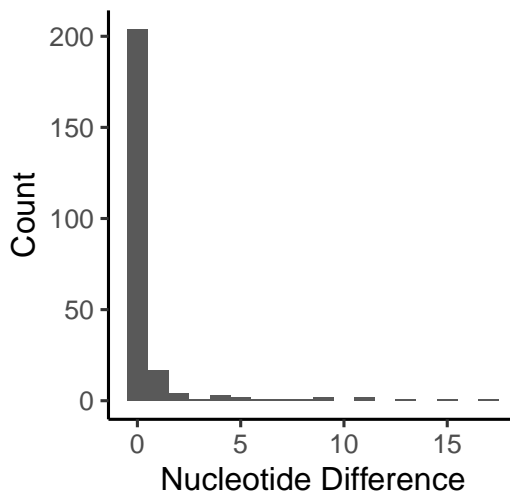
IGHV4-28*01

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



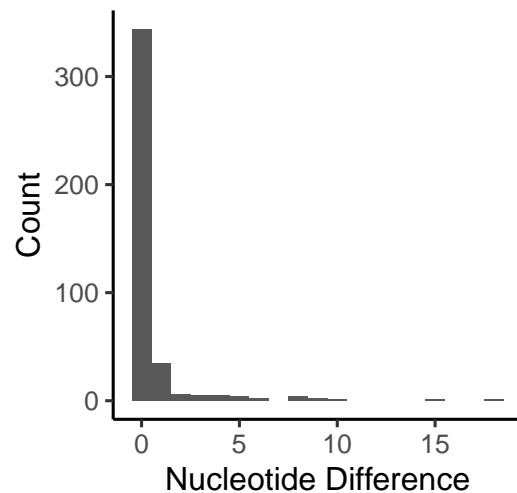
IGHV4-30-4*01

241 sequences assigned
204 (84.6%) exact matches, in which:
194 unique CDR3
6 unique J



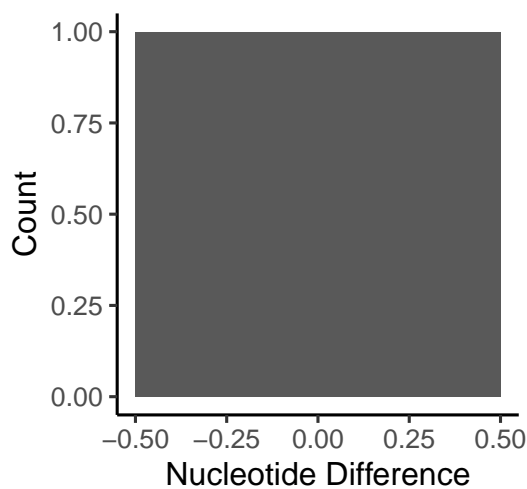
IGHV4-38-2*02

411 sequences assigned
344 (83.7%) exact matches, in which:
320 unique CDR3
6 unique J



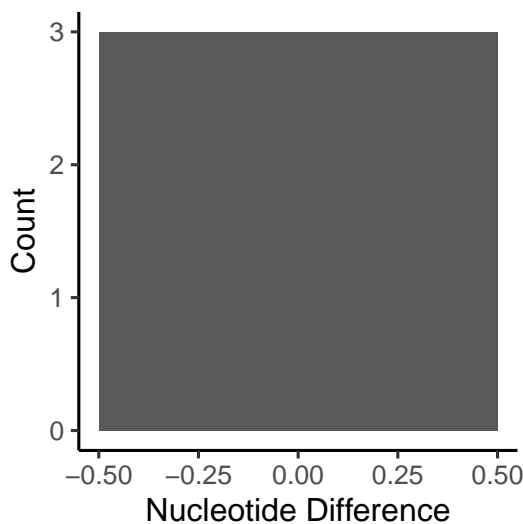
IGHV4-28*07

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



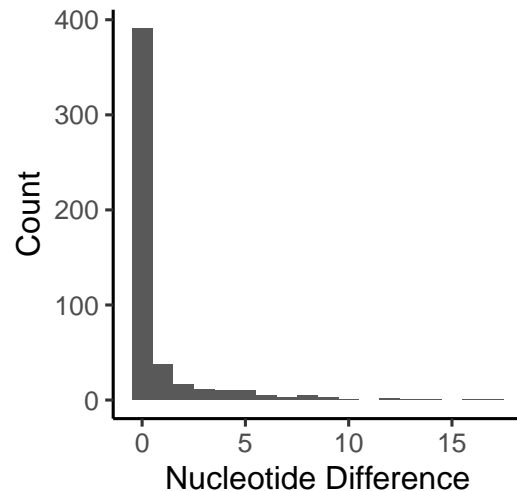
IGHV4-31*10

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



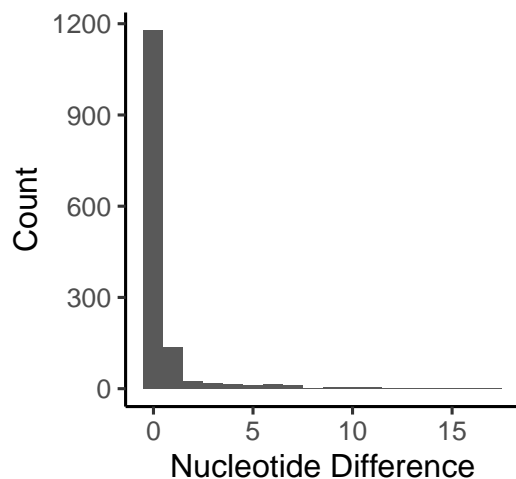
IGHV4-38-2*02_A70G

499 sequences assigned
391 (78.4%) exact matches, in which:
371 unique CDR3
6 unique J



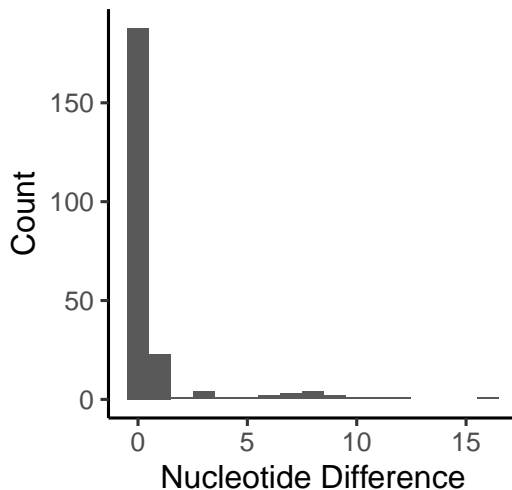
IGHV4–39*07

1439 sequences assigned
1178 (81.9%) exact matches, in which:
1083 unique CDR3
6 unique J



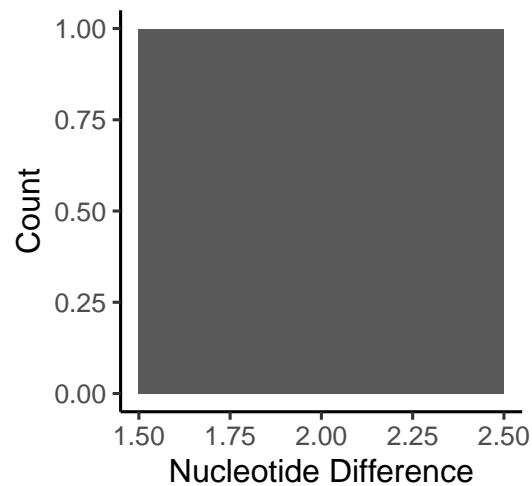
IGHV4–61*01

233 sequences assigned
188 (80.7%) exact matches, in which:
179 unique CDR3
6 unique J



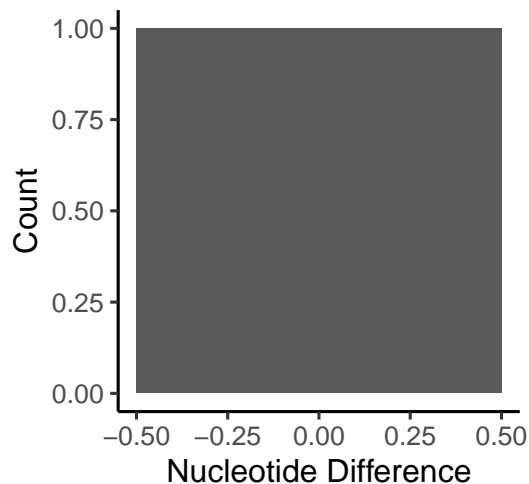
IGHV5–78*01

1 sequences assigned
No exact matches.



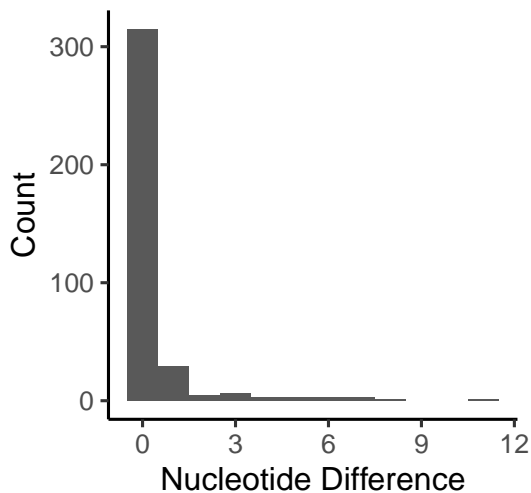
IGHV4–55*08

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



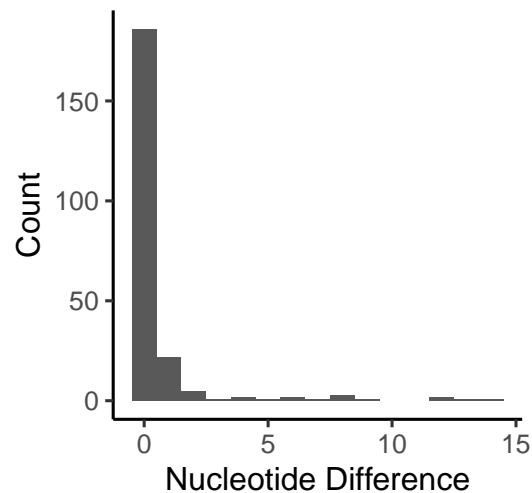
IGHV5–10–1*03

369 sequences assigned
315 (85.4%) exact matches, in which:
303 unique CDR3
5 unique J



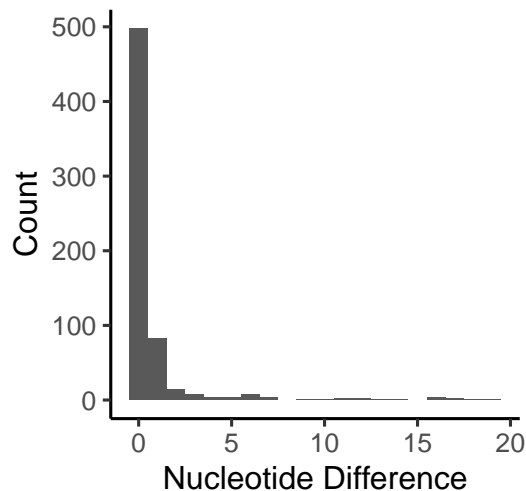
IGHV6–1*01

228 sequences assigned
186 (81.6%) exact matches, in which:
175 unique CDR3
6 unique J



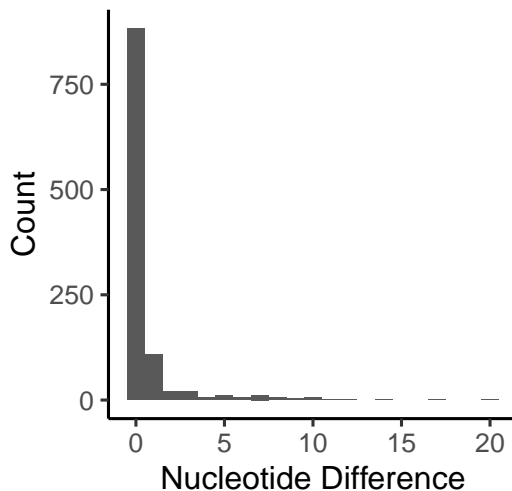
IGHV4–59*01

635 sequences assigned
498 (78.4%) exact matches, in which:
484 unique CDR3
6 unique J



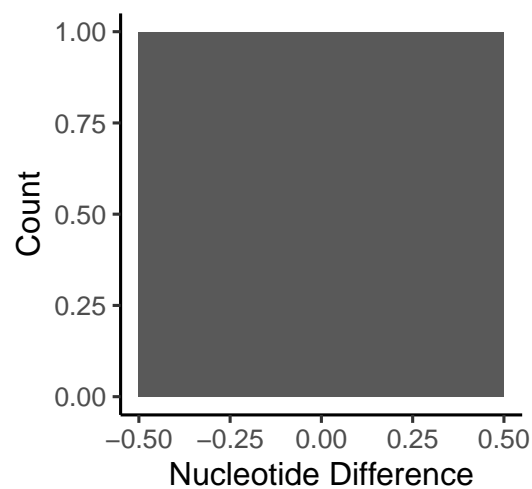
IGHV5–51*01

1097 sequences assigned
883 (80.5%) exact matches, in which:
829 unique CDR3
6 unique J



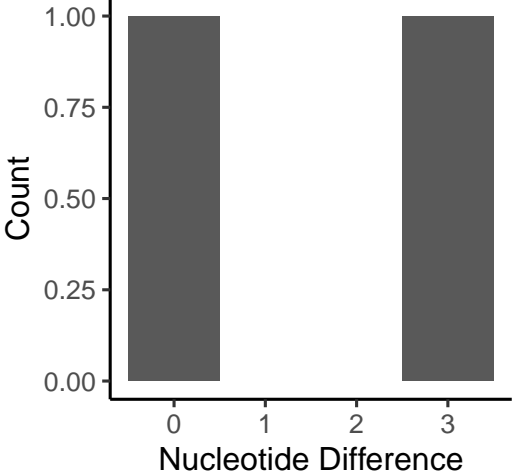
IGHV3/OR16–6*02

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



IGHV7-4-1*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J





Warning – no inferred sequences found.