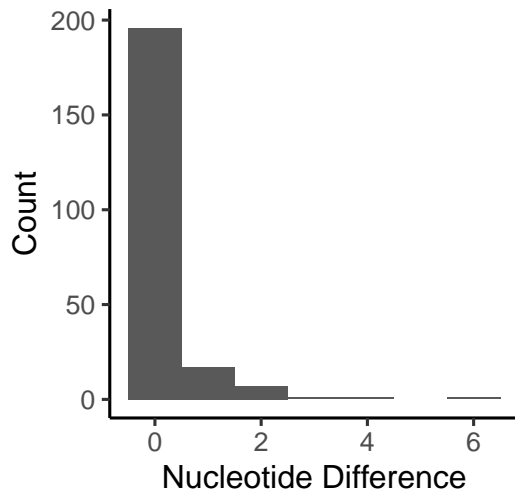


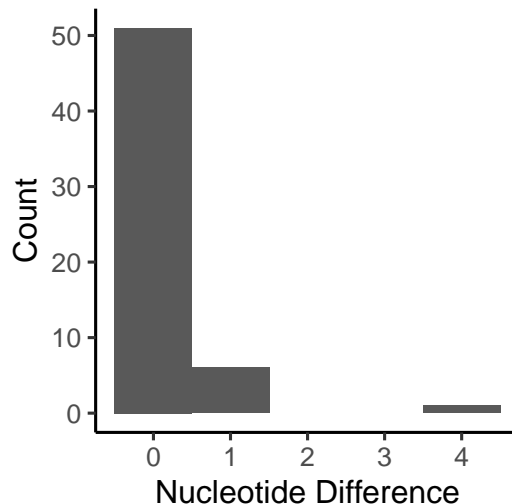
IGHV1-2*04

223 sequences assigned
196 (87.9%) exact matches, in which:
191 unique CDR3
6 unique J



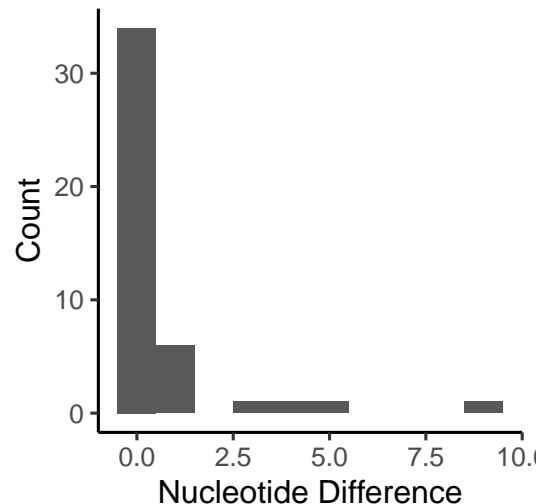
IGHV1-24*01

58 sequences assigned
51 (87.9%) exact matches, in which:
50 unique CDR3
6 unique J



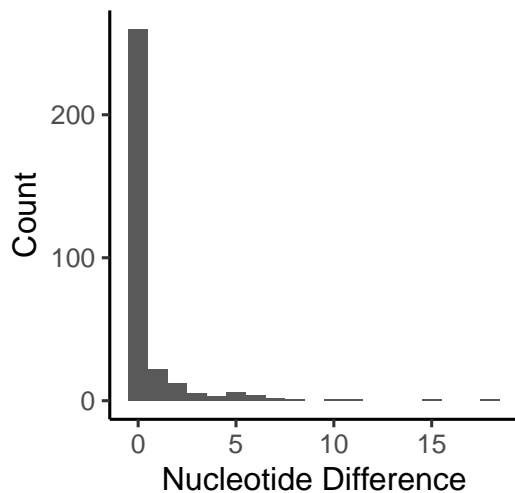
IGHV1-58*01

44 sequences assigned
34 (77.3%) exact matches, in which:
33 unique CDR3
5 unique J



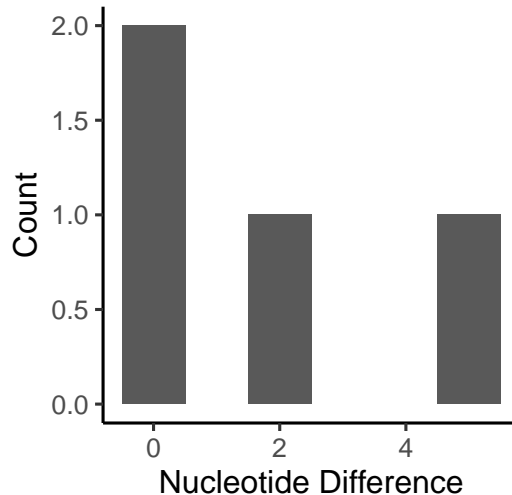
IGHV1-3*01

320 sequences assigned
260 (81.2%) exact matches, in which:
259 unique CDR3
6 unique J



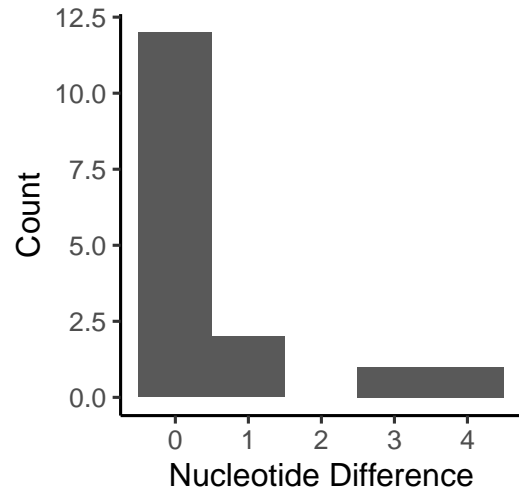
IGHV1-45*02

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



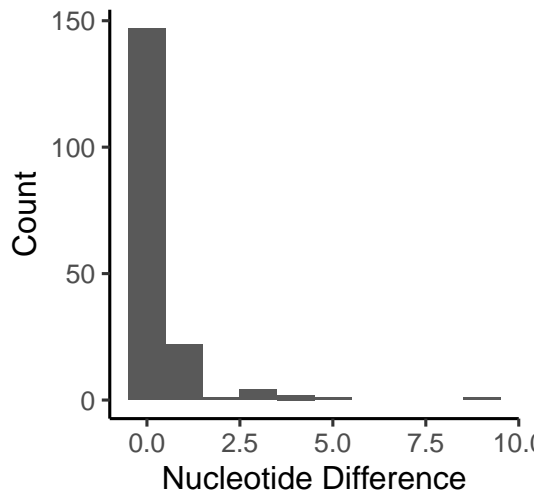
IGHV1-58*02

16 sequences assigned
12 (75%) exact matches, in which:
12 unique CDR3
3 unique J



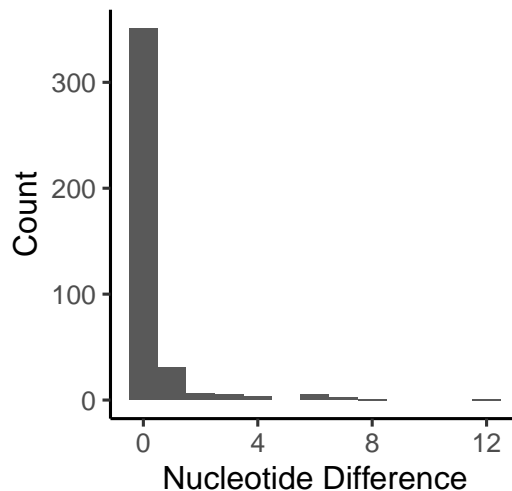
IGHV1-18*01

178 sequences assigned
147 (82.6%) exact matches, in which:
146 unique CDR3
6 unique J



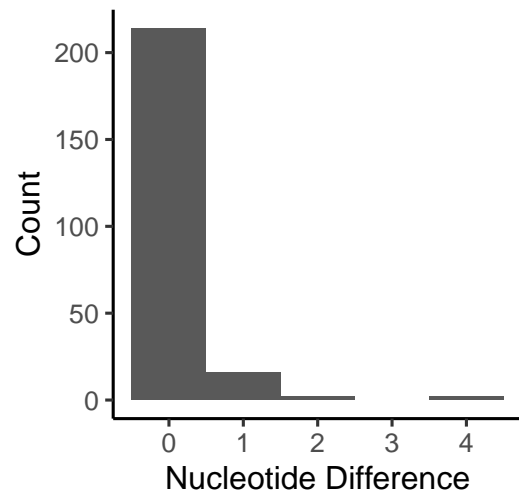
IGHV1-46*01

406 sequences assigned
351 (86.5%) exact matches, in which:
347 unique CDR3
6 unique J



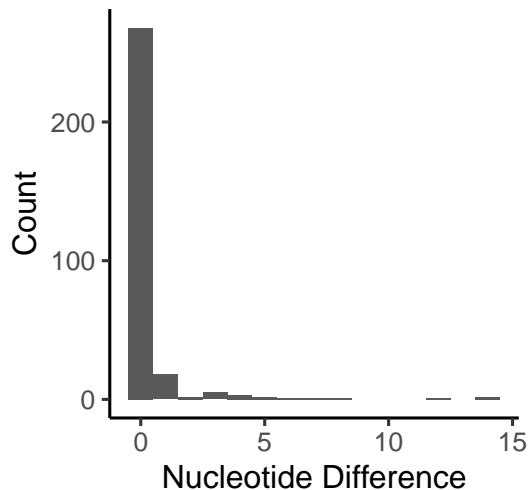
IGHV1-69*02

234 sequences assigned
214 (91.5%) exact matches, in which:
207 unique CDR3
6 unique J



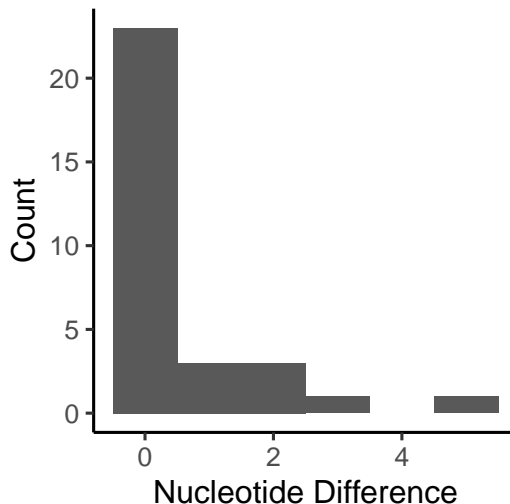
IGHV2-5*02

304 sequences assigned
268 (88.2%) exact matches, in which:
262 unique CDR3
6 unique J



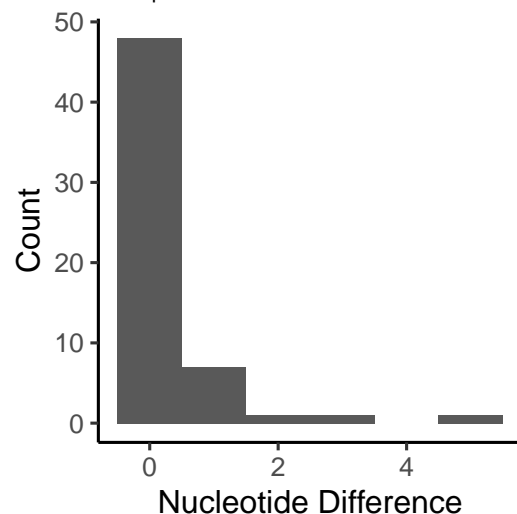
IGHV2-70*15

31 sequences assigned
23 (74.2%) exact matches, in which:
23 unique CDR3
5 unique J



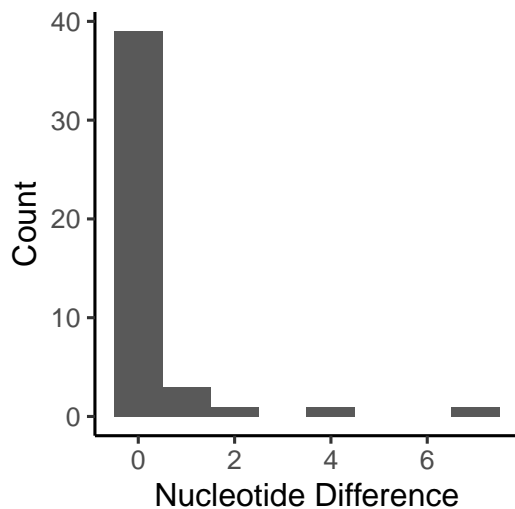
IGHV3-13*04

58 sequences assigned
48 (82.8%) exact matches, in which:
48 unique CDR3
5 unique J



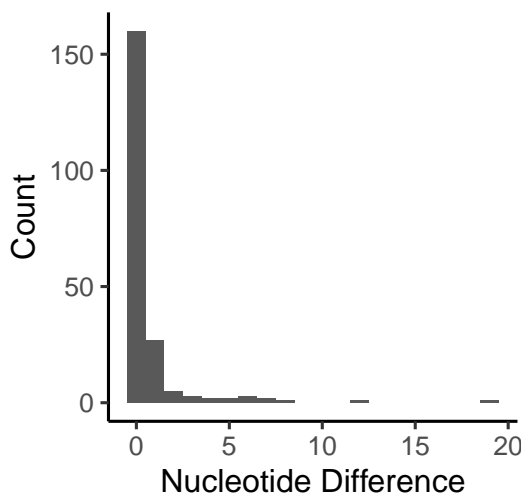
IGHV2-26*01

45 sequences assigned
39 (86.7%) exact matches, in which:
38 unique CDR3
5 unique J



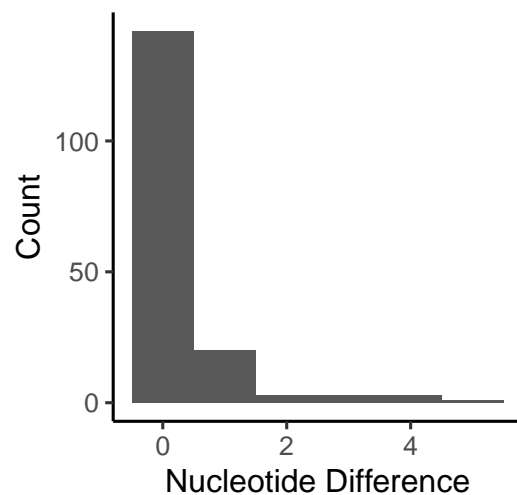
IGHV3-7*04

207 sequences assigned
160 (77.3%) exact matches, in which:
153 unique CDR3
6 unique J



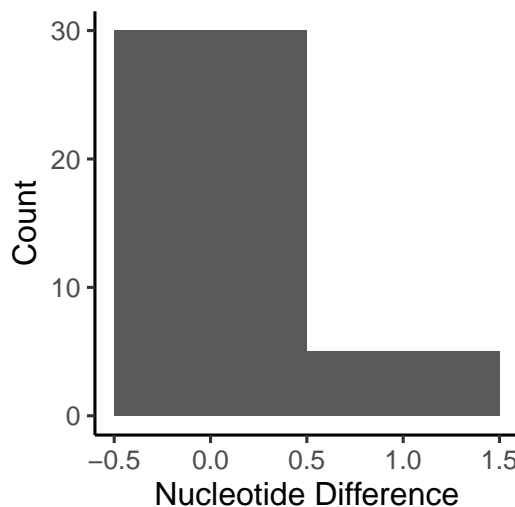
IGHV3-15*01

172 sequences assigned
142 (82.6%) exact matches, in which:
139 unique CDR3
6 unique J



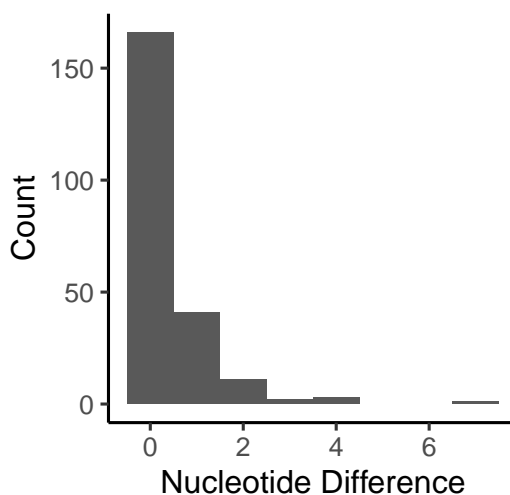
IGHV2-70*01

35 sequences assigned
30 (85.7%) exact matches, in which:
30 unique CDR3
4 unique J



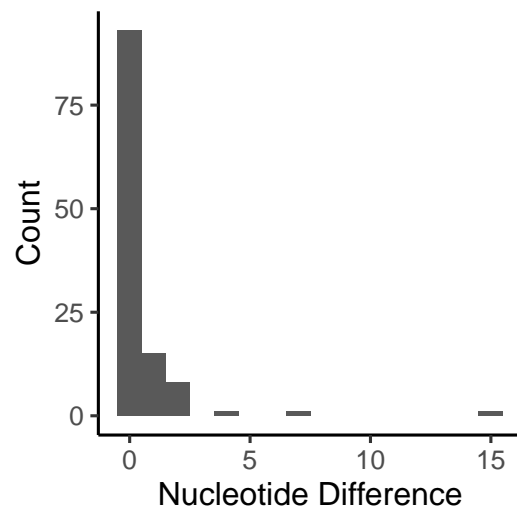
IGHV3-11*05

224 sequences assigned
166 (74.1%) exact matches, in which:
162 unique CDR3
5 unique J



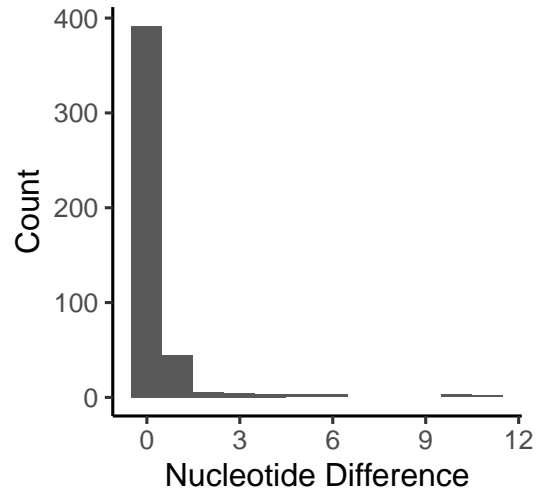
IGHV3-20*04

119 sequences assigned
93 (78.2%) exact matches, in which:
87 unique CDR3
6 unique J



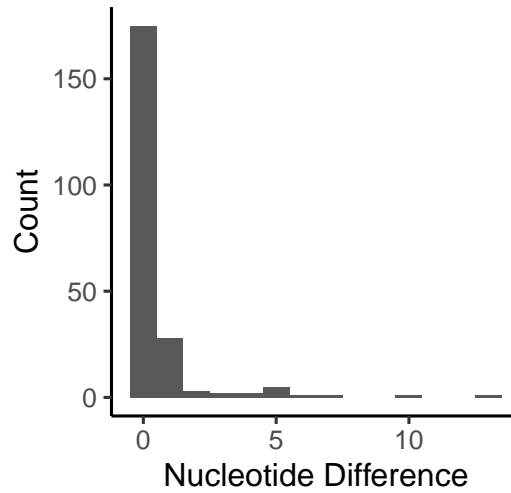
IGHV3-21*01

463 sequences assigned
392 (84.7%) exact matches, in which:
384 unique CDR3
6 unique J



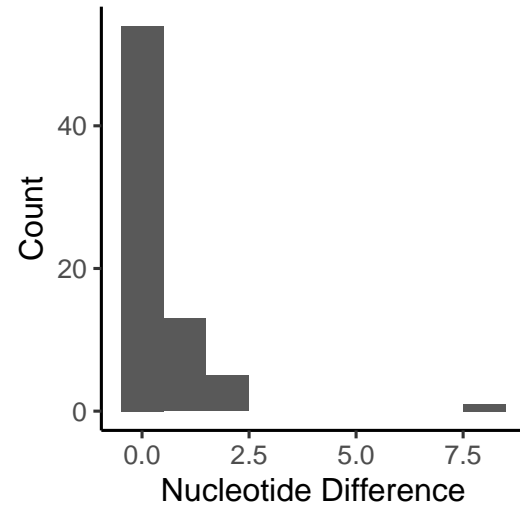
IGHV3-48*02

219 sequences assigned
175 (79.9%) exact matches, in which:
169 unique CDR3
6 unique J



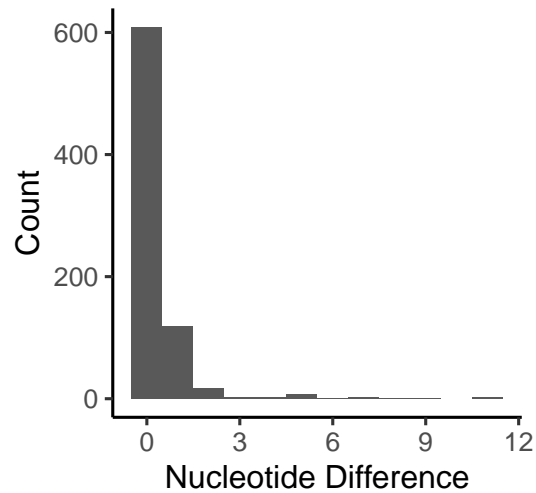
IGHV3-49*05

73 sequences assigned
54 (74%) exact matches, in which:
53 unique CDR3
6 unique J



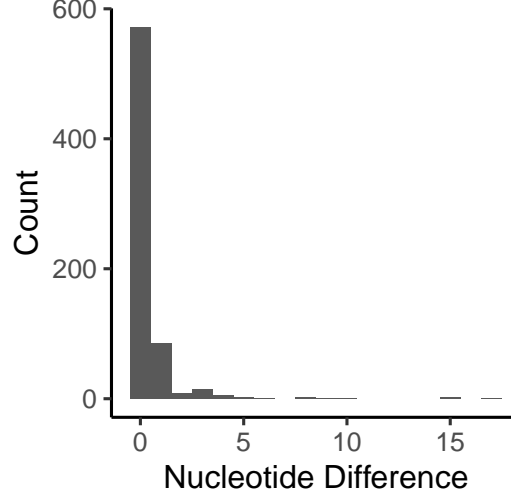
IGHV3-33*01

774 sequences assigned
609 (78.7%) exact matches, in which:
592 unique CDR3
6 unique J



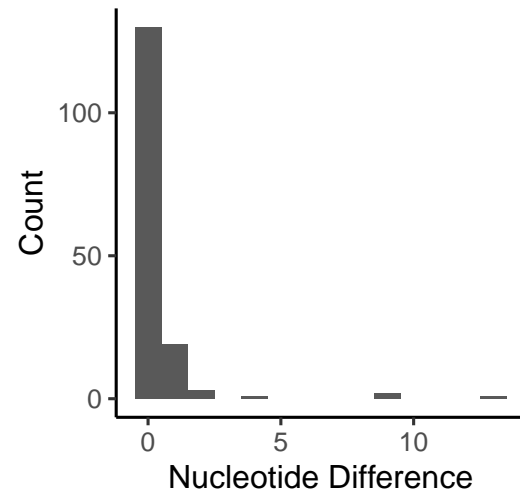
IGHV3-48*03

695 sequences assigned
572 (82.3%) exact matches, in which:
556 unique CDR3
6 unique J



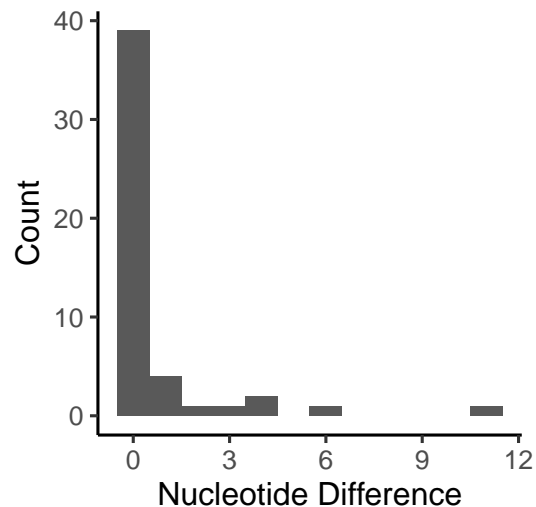
IGHV3-53*01

156 sequences assigned
130 (83.3%) exact matches, in which:
125 unique CDR3
5 unique J



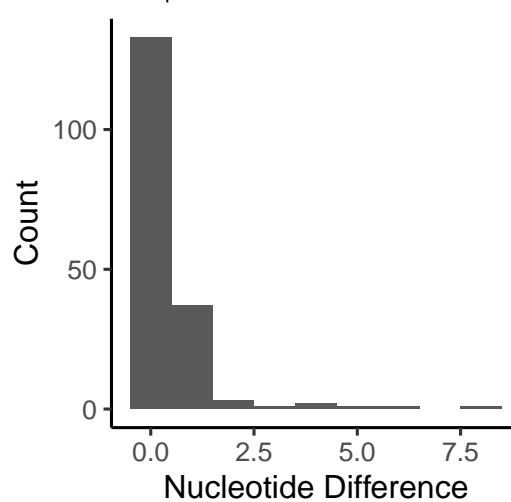
IGHV3-43*01

49 sequences assigned
39 (79.6%) exact matches, in which:
38 unique CDR3
5 unique J



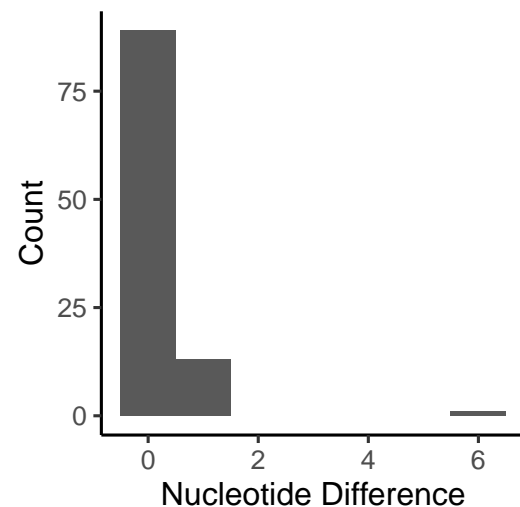
IGHV3-49*04

179 sequences assigned
133 (74.3%) exact matches, in which:
129 unique CDR3
6 unique J



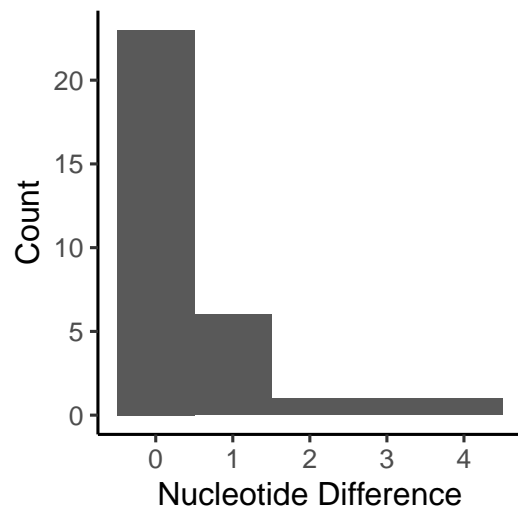
IGHV3-53*02

103 sequences assigned
89 (86.4%) exact matches, in which:
86 unique CDR3
5 unique J



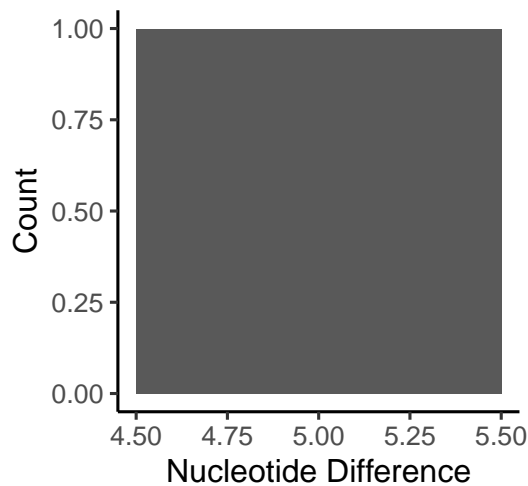
IGHV3-64*01

32 sequences assigned
23 (71.9%) exact matches, in which:
22 unique CDR3
5 unique J



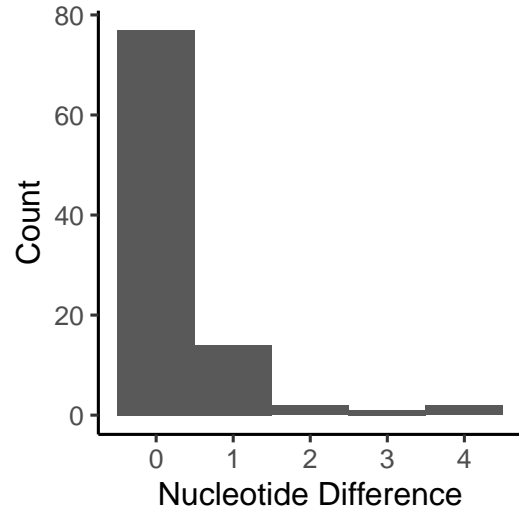
IGHV3-69-1*02

1 sequences assigned
No exact matches.



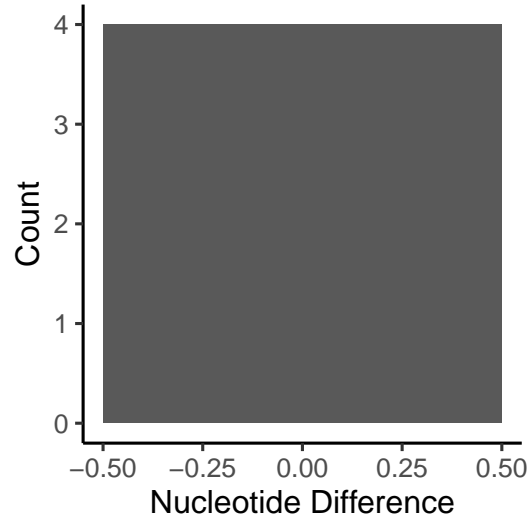
IGHV3-73*02

96 sequences assigned
77 (80.2%) exact matches, in which:
74 unique CDR3
5 unique J



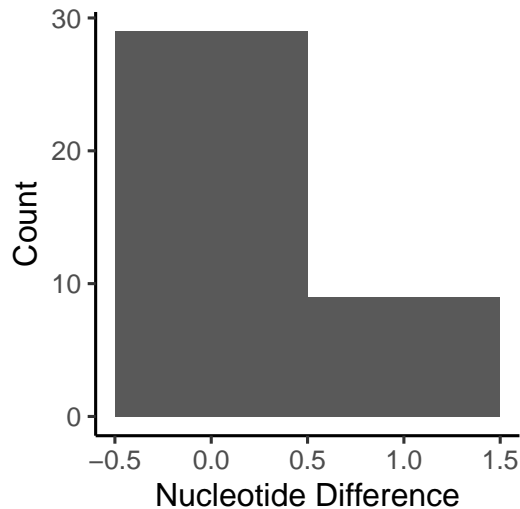
IGHV3-64*02

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
3 unique J



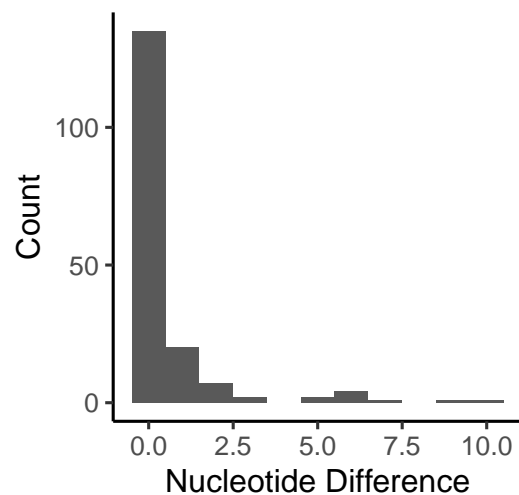
IGHV3-72*01

38 sequences assigned
29 (76.3%) exact matches, in which:
28 unique CDR3
5 unique J



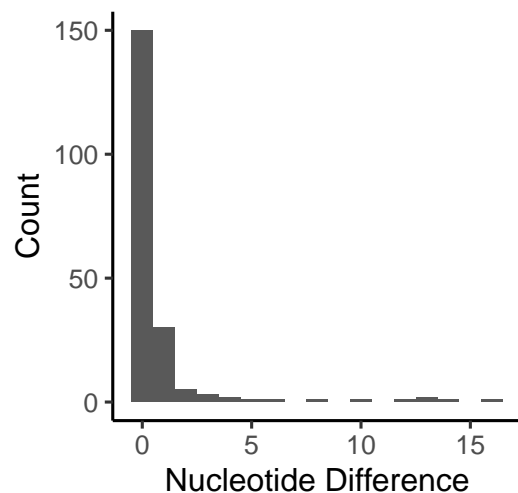
IGHV3-74*01

173 sequences assigned
135 (78%) exact matches, in which:
131 unique CDR3
6 unique J



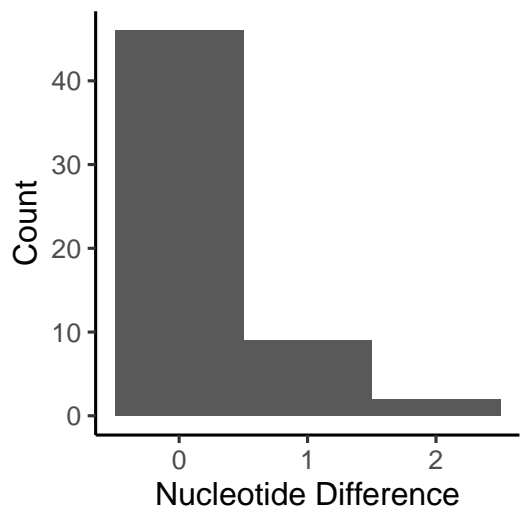
IGHV3-66*01

199 sequences assigned
150 (75.4%) exact matches, in which:
138 unique CDR3
6 unique J



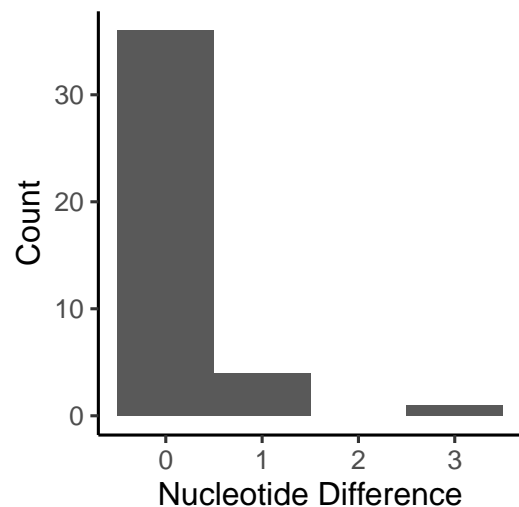
IGHV3-73*01

57 sequences assigned
46 (80.7%) exact matches, in which:
44 unique CDR3
5 unique J



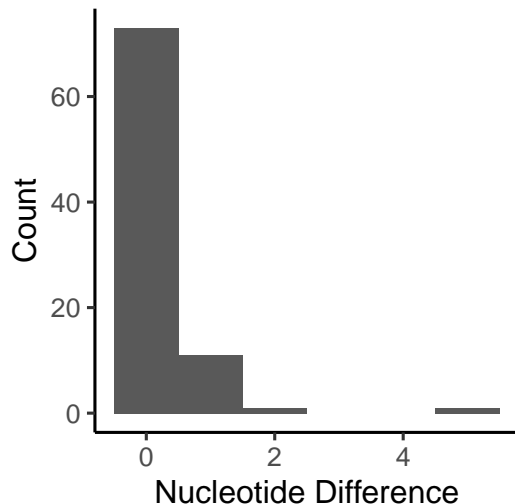
IGHV3-43D*04

41 sequences assigned
36 (87.8%) exact matches, in which:
35 unique CDR3
6 unique J



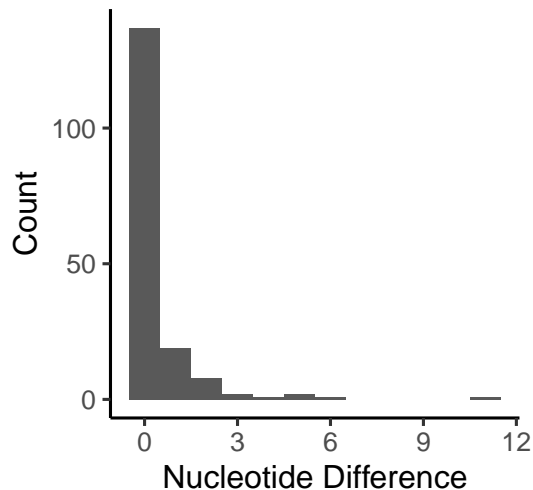
IGHV3–64D*06

86 sequences assigned
73 (84.9%) exact matches, in which:
71 unique CDR3
6 unique J



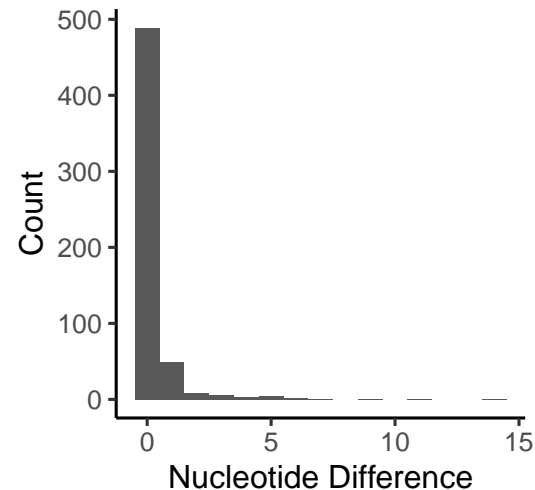
IGHV4–31*03

171 sequences assigned
137 (80.1%) exact matches, in which:
137 unique CDR3
6 unique J



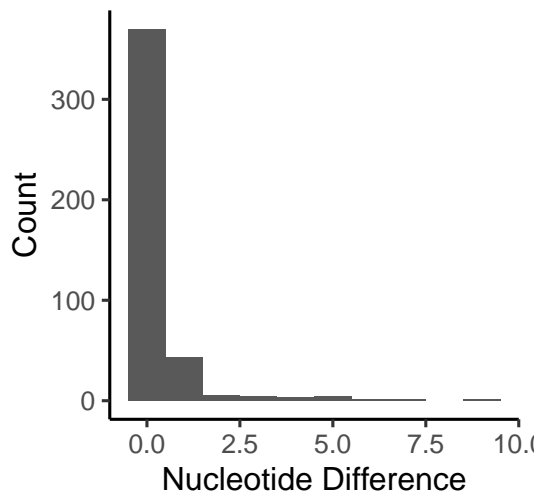
IGHV4–39*01

570 sequences assigned
489 (85.8%) exact matches, in which:
474 unique CDR3
6 unique J



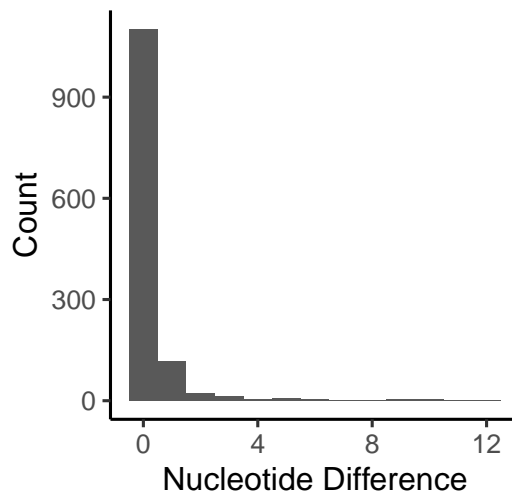
IGHV4–4*02

432 sequences assigned
370 (85.6%) exact matches, in which:
365 unique CDR3
6 unique J



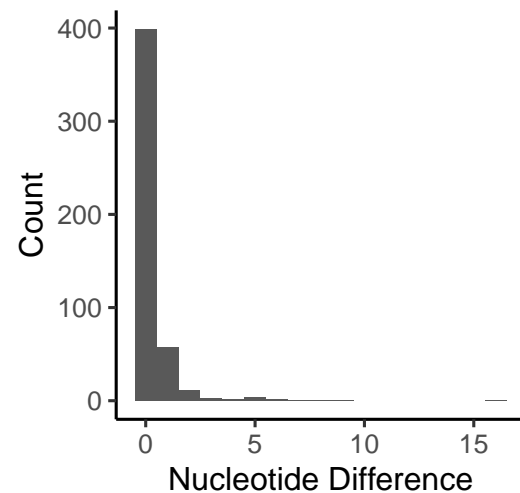
IGHV4–34*01

1280 sequences assigned
1102 (86.1%) exact matches, in which:
1079 unique CDR3
6 unique J



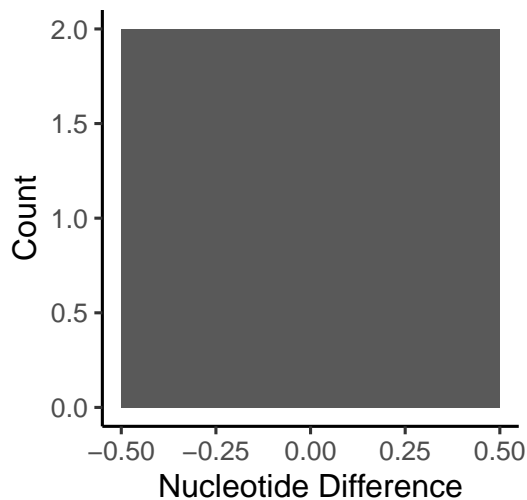
IGHV4–59*01

482 sequences assigned
399 (82.8%) exact matches, in which:
394 unique CDR3
6 unique J



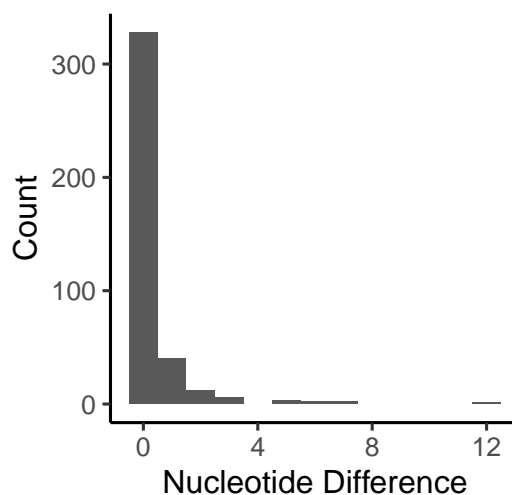
IGHV4–28*01

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



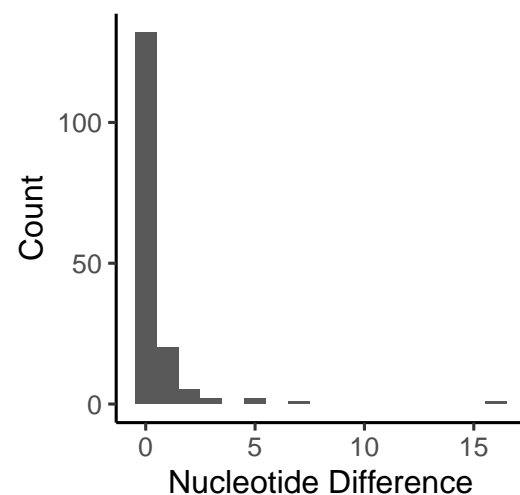
IGHV4–38–2*02_A70G

395 sequences assigned
328 (83%) exact matches, in which:
322 unique CDR3
6 unique J



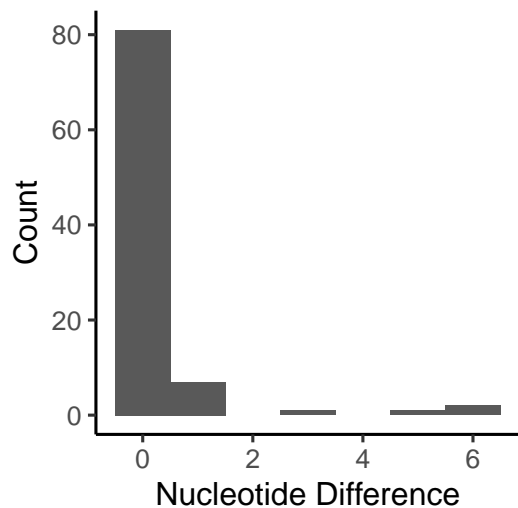
IGHV4–59*08

163 sequences assigned
132 (81%) exact matches, in which:
132 unique CDR3
6 unique J



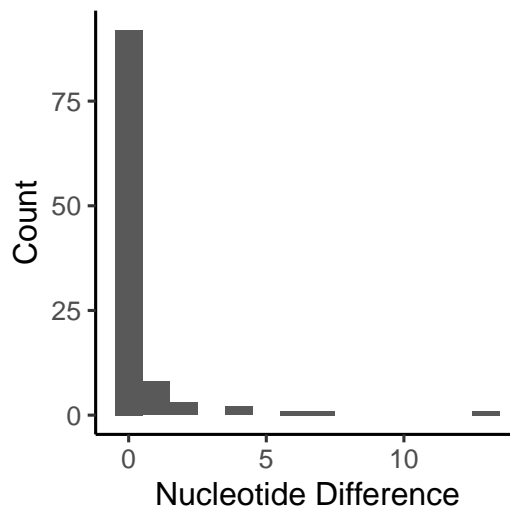
IGHV4-61*01

92 sequences assigned
81 (88%) exact matches, in which:
81 unique CDR3
6 unique J



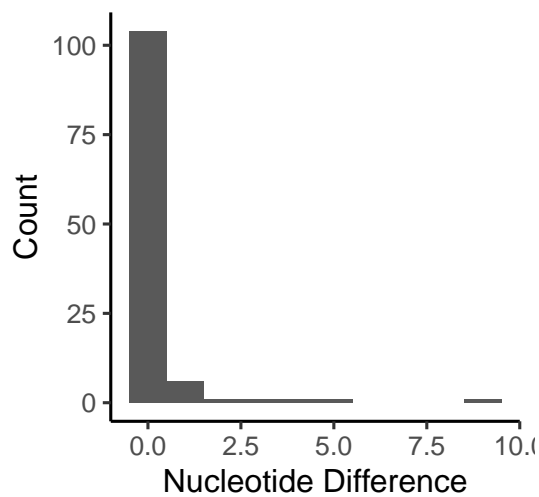
IGHV6-1*01

108 sequences assigned
92 (85.2%) exact matches, in which:
90 unique CDR3
6 unique J



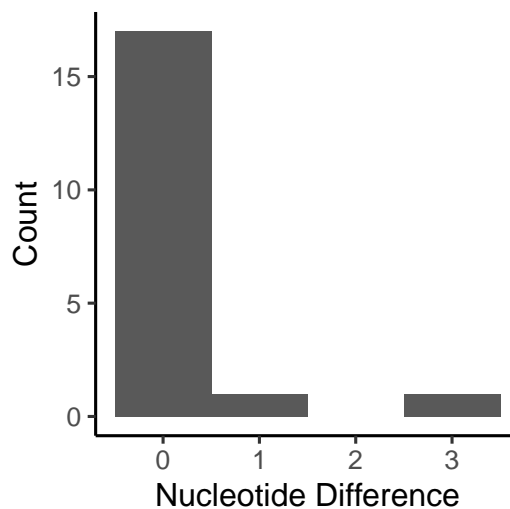
IGHV5-10-1*01

115 sequences assigned
104 (90.4%) exact matches, in which:
103 unique CDR3
6 unique J



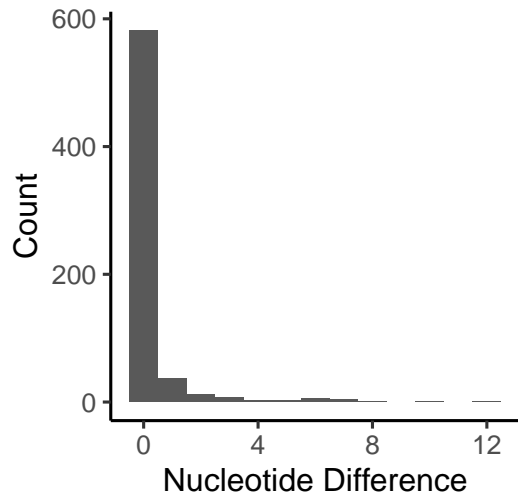
IGHV7-4-1*01

19 sequences assigned
17 (89.5%) exact matches, in which:
16 unique CDR3
5 unique J



IGHV5-51*01

655 sequences assigned
582 (88.9%) exact matches, in which:
569 unique CDR3
6 unique J





Warning – no inferred sequences found.