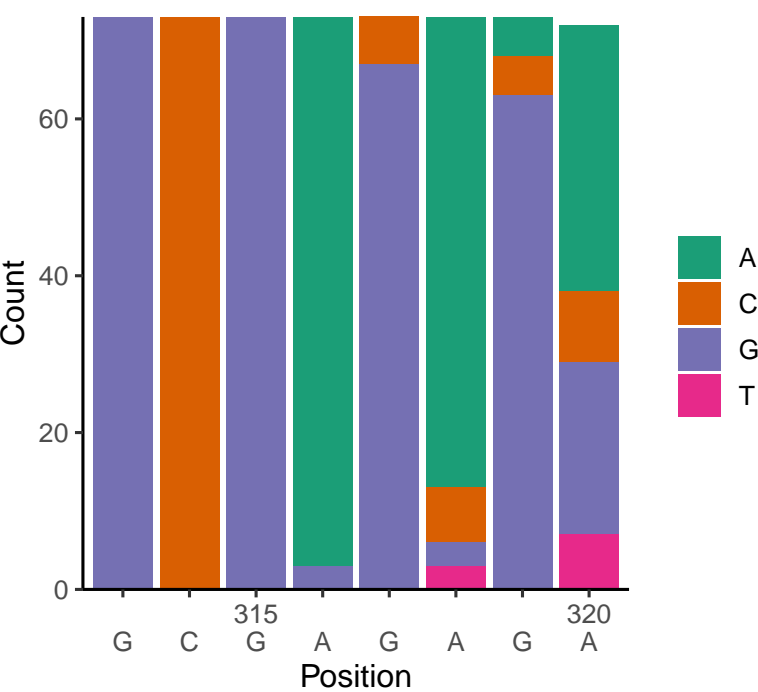


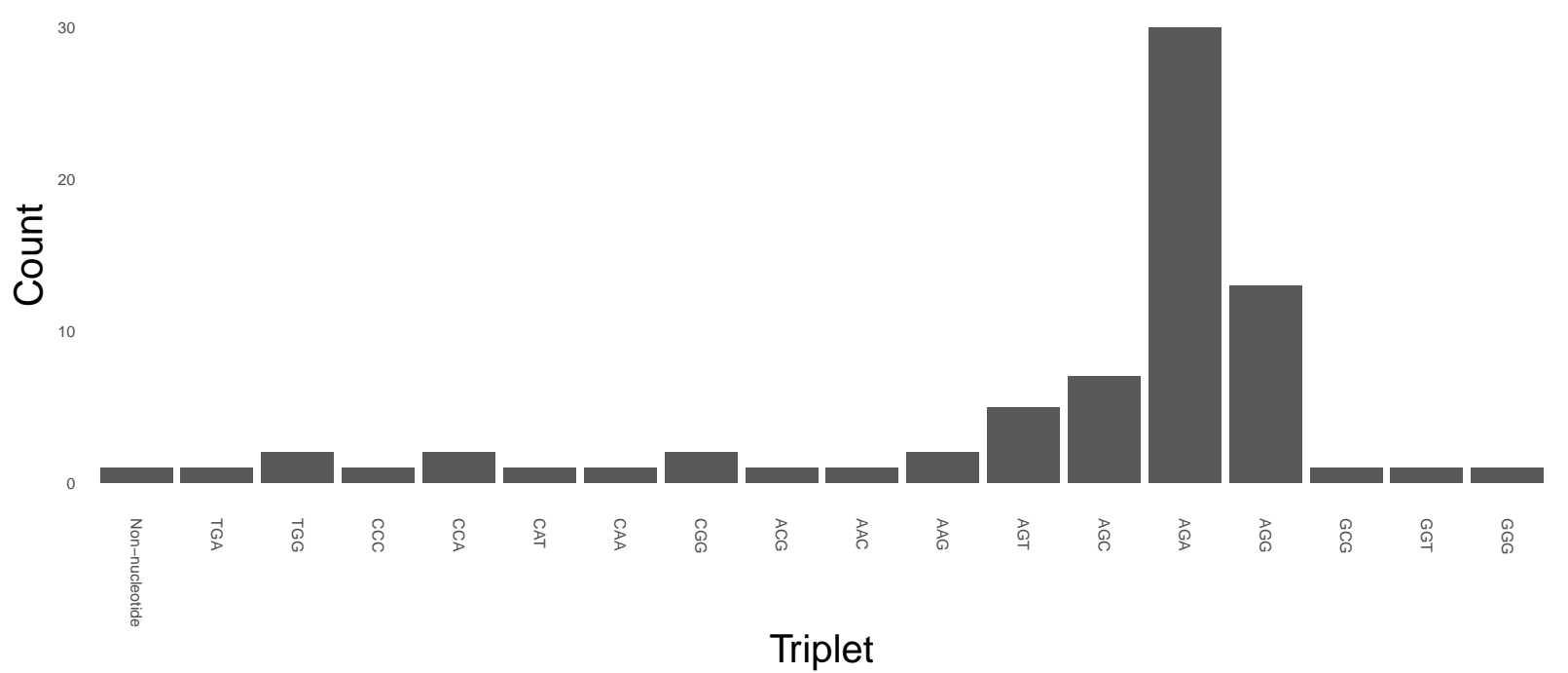
Gene IGHV3-53*02_G88A



Gene IGHV3-53*02_G88A

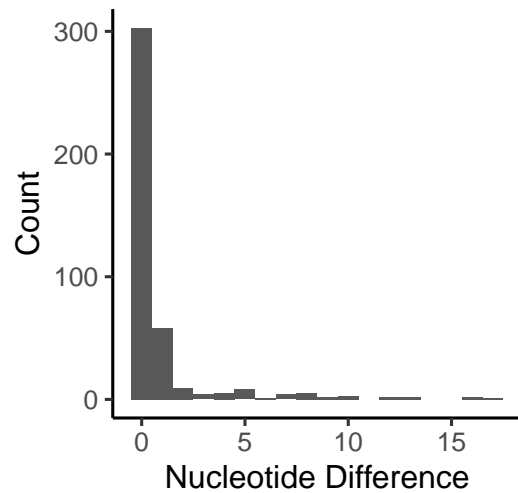


IGHV3-53*02_G88A- Final 3 nucleotides as a triplet



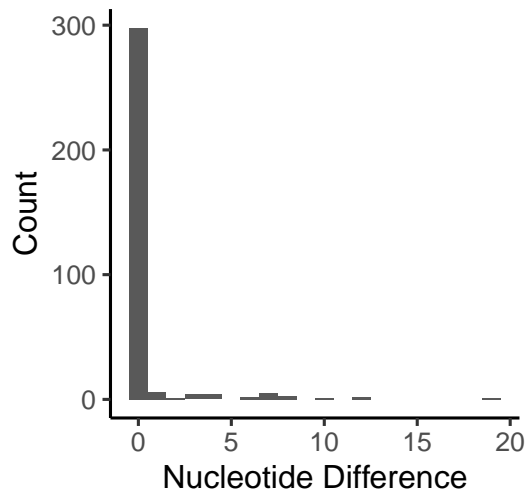
IGHV1–2*02

414 sequences assigned
303 (73.2%) exact matches, in which:
299 unique CDR3
6 unique J



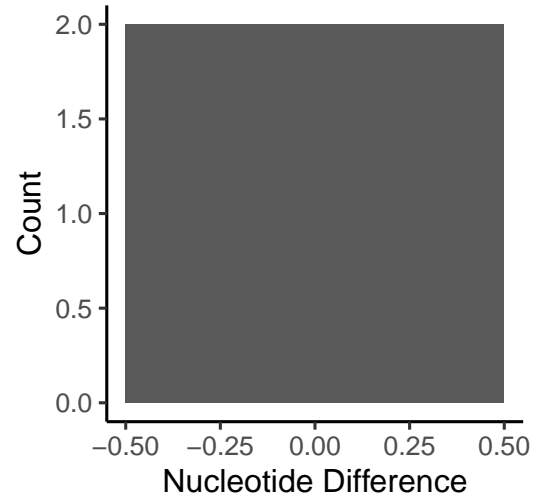
IGHV1–18*01

327 sequences assigned
298 (91.1%) exact matches, in which:
297 unique CDR3
6 unique J



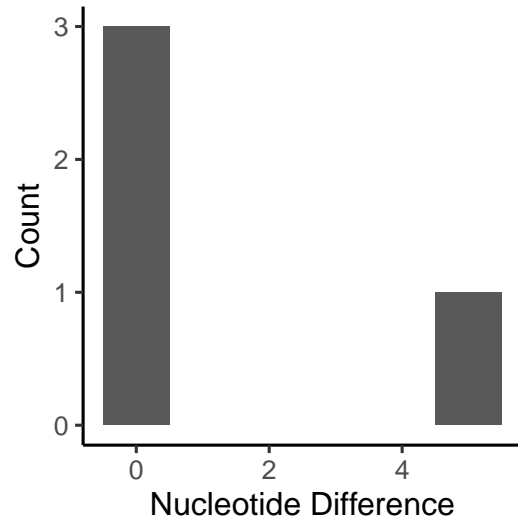
IGHV1–45*02

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



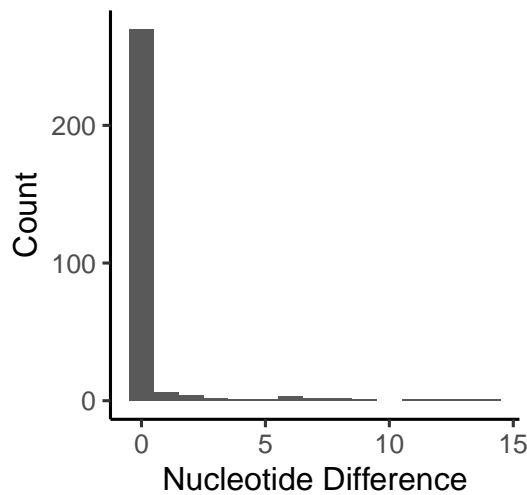
IGHV1–3*02

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



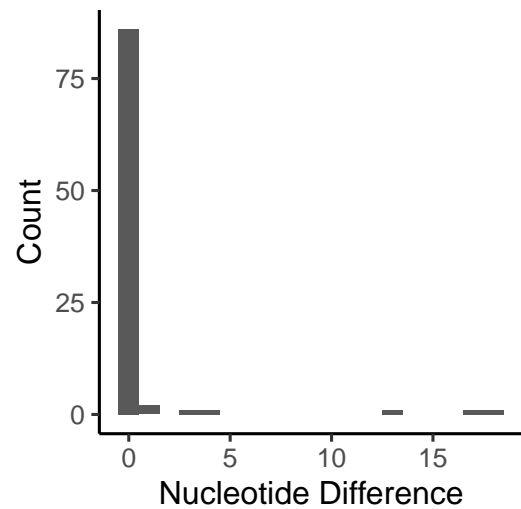
IGHV1–18*04

296 sequences assigned
270 (91.2%) exact matches, in which:
268 unique CDR3
6 unique J



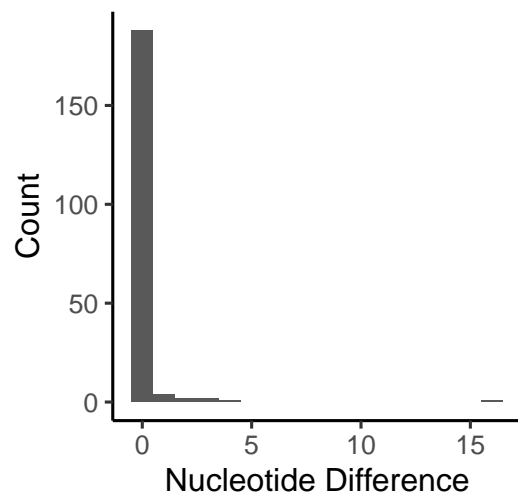
IGHV1–46*01

94 sequences assigned
86 (91.5%) exact matches, in which:
86 unique CDR3
5 unique J



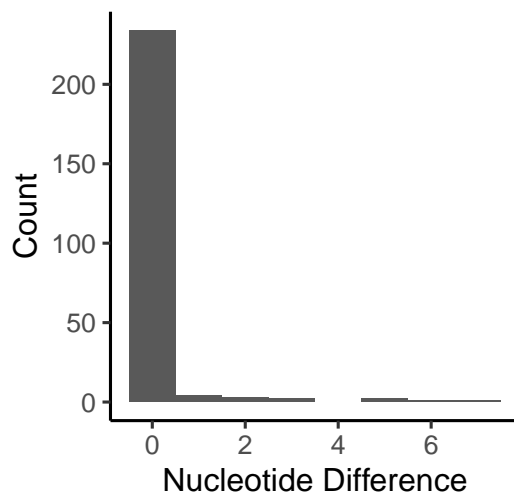
IGHV1–8*01

198 sequences assigned
188 (94.9%) exact matches, in which:
187 unique CDR3
6 unique J



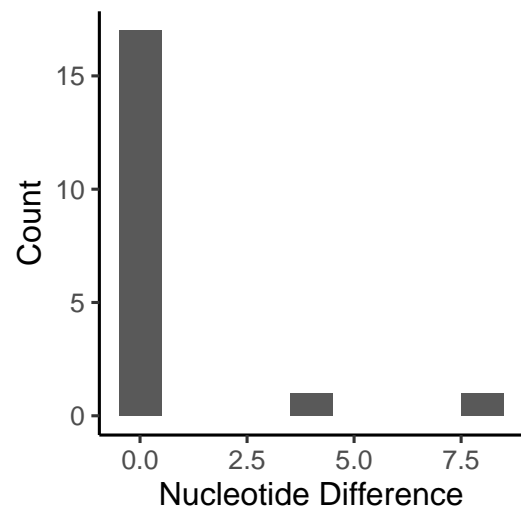
IGHV1–24*01

247 sequences assigned
234 (94.7%) exact matches, in which:
232 unique CDR3
6 unique J



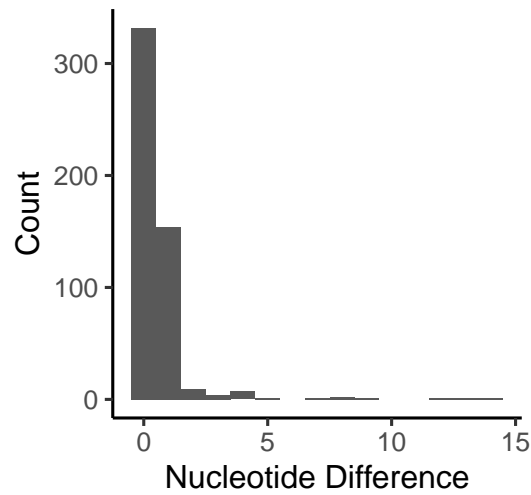
IGHV1–58*01

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



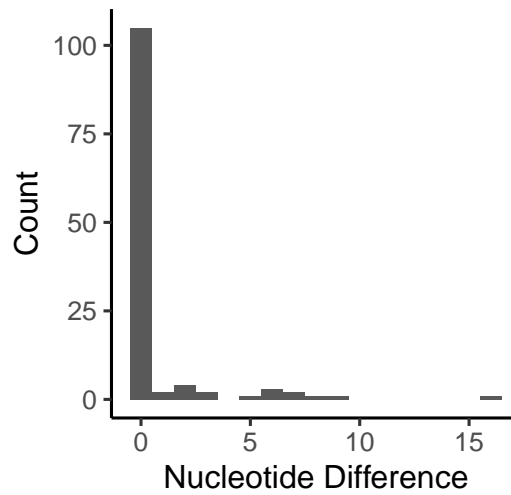
IGHV1–69*01

515 sequences assigned
332 (64.5%) exact matches, in which:
331 unique CDR3
6 unique J



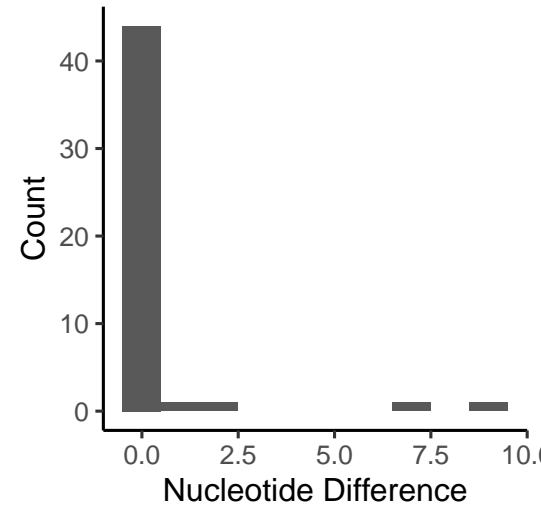
IGHV2–5*01

122 sequences assigned
105 (86.1%) exact matches, in which:
105 unique CDR3
6 unique J



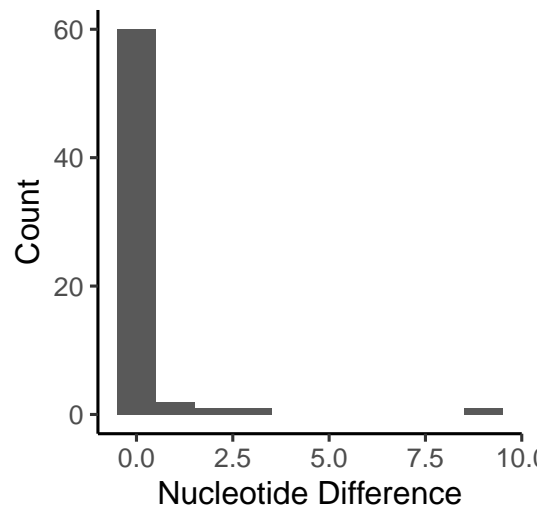
IGHV2–70*01

48 sequences assigned
44 (91.7%) exact matches, in which:
44 unique CDR3
6 unique J



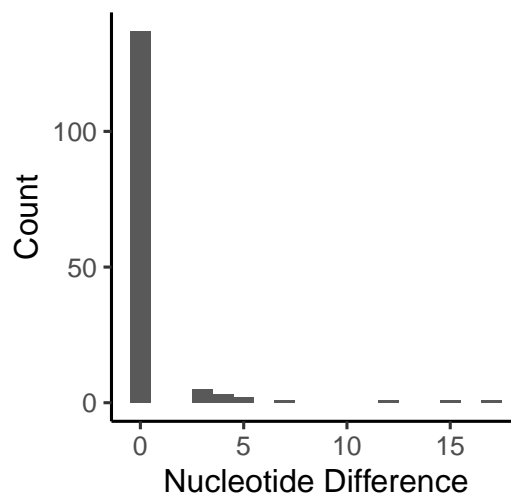
IGHV1–69–2*01

65 sequences assigned
60 (92.3%) exact matches, in which:
60 unique CDR3
4 unique J



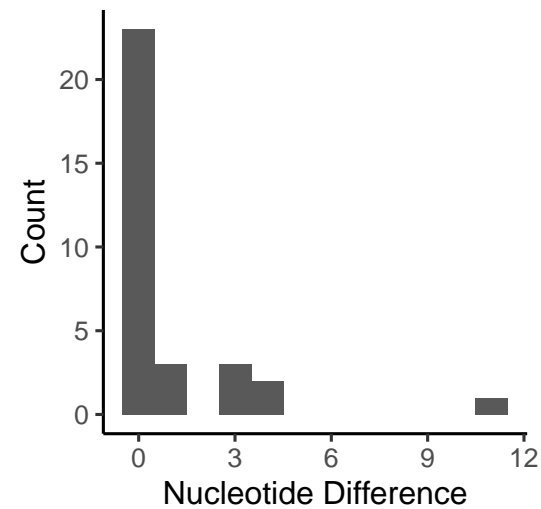
IGHV2–5*02

152 sequences assigned
137 (90.1%) exact matches, in which:
137 unique CDR3
6 unique J



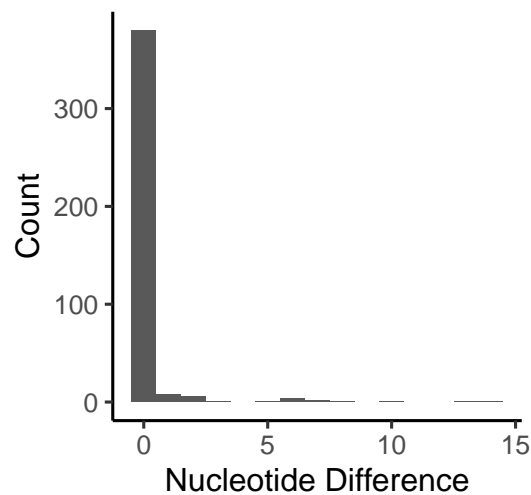
IGHV2–70*04

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



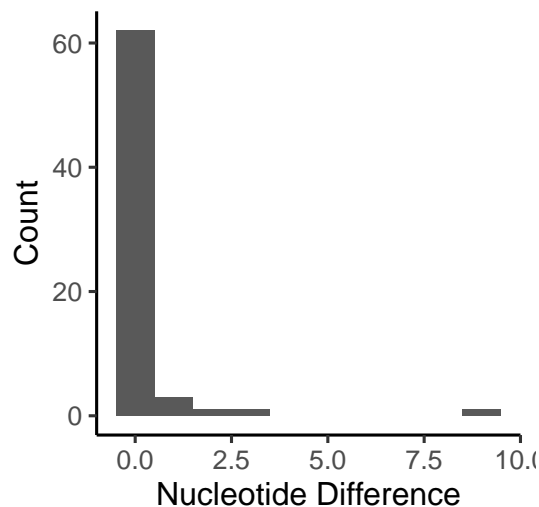
IGHV1–69*06

406 sequences assigned
380 (93.6%) exact matches, in which:
377 unique CDR3
6 unique J



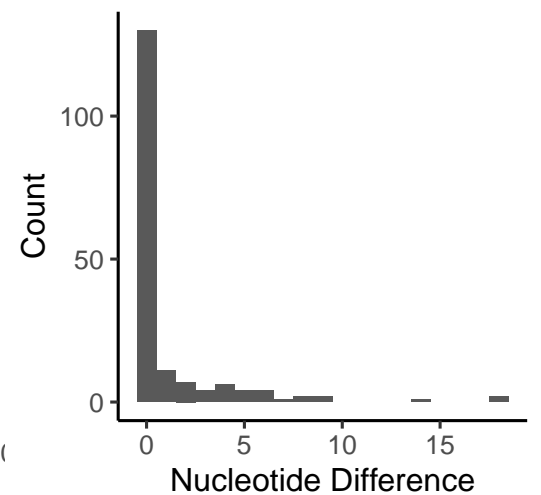
IGHV2–26*01

68 sequences assigned
62 (91.2%) exact matches, in which:
62 unique CDR3
5 unique J



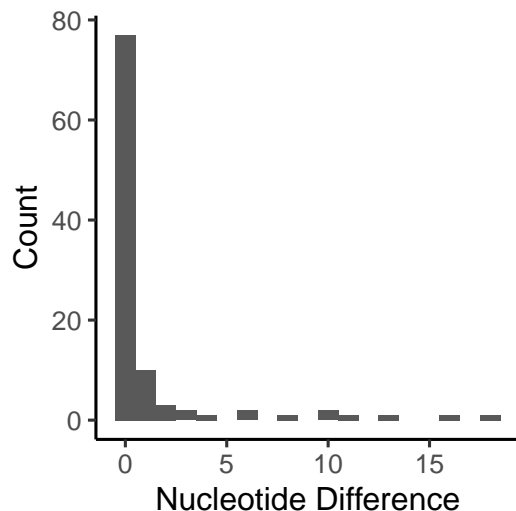
IGHV3–7*01

175 sequences assigned
130 (74.3%) exact matches, in which:
125 unique CDR3
5 unique J



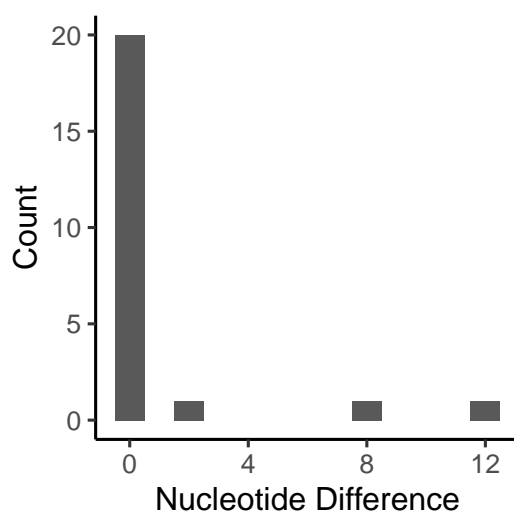
IGHV3-7*04

102 sequences assigned
77 (75.5%) exact matches, in which:
75 unique CDR3
6 unique J



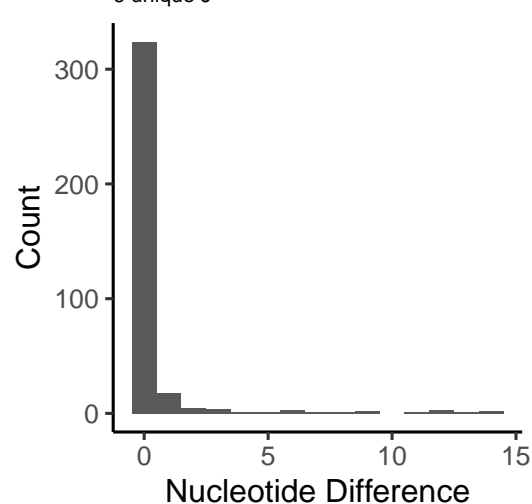
IGHV3-13*01

23 sequences assigned
20 (87%) exact matches, in which:
19 unique CDR3
4 unique J



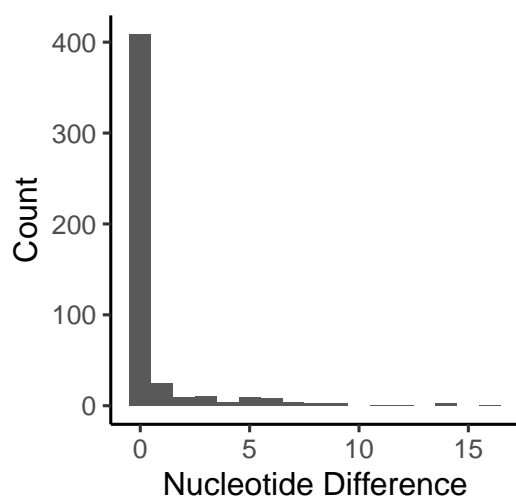
IGHV3-21*01

368 sequences assigned
324 (88%) exact matches, in which:
318 unique CDR3
6 unique J



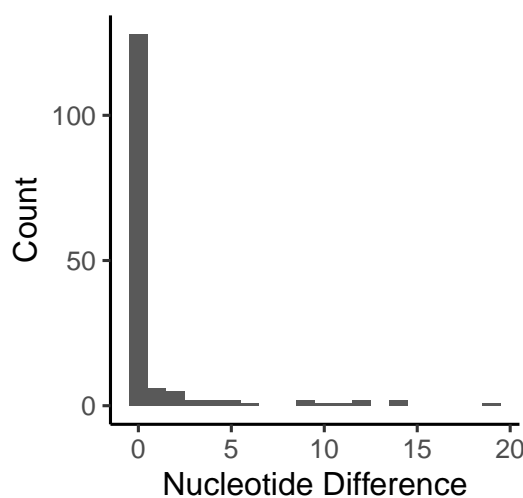
IGHV3-9*01

490 sequences assigned
409 (83.5%) exact matches, in which:
405 unique CDR3
6 unique J



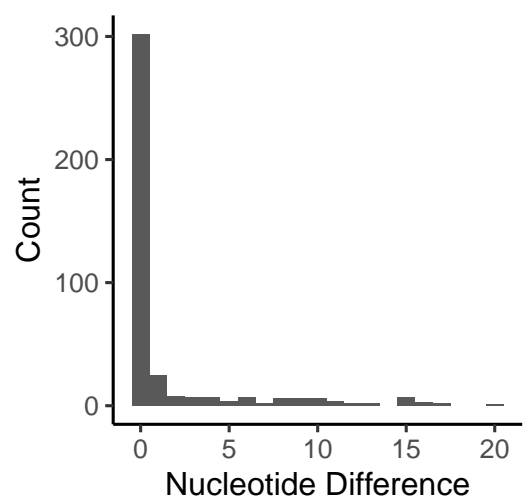
IGHV3-15*01

155 sequences assigned
128 (82.6%) exact matches, in which:
127 unique CDR3
6 unique J



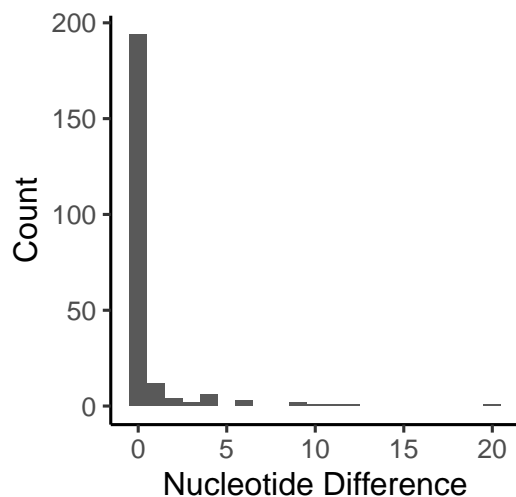
IGHV3-23*01

402 sequences assigned
302 (75.1%) exact matches, in which:
299 unique CDR3
6 unique J



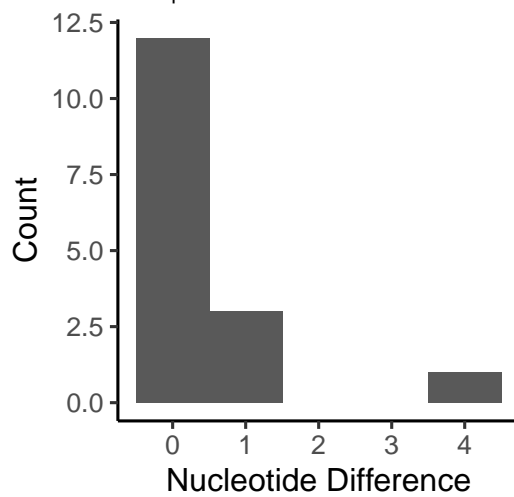
IGHV3-11*01

227 sequences assigned
194 (85.5%) exact matches, in which:
191 unique CDR3
6 unique J



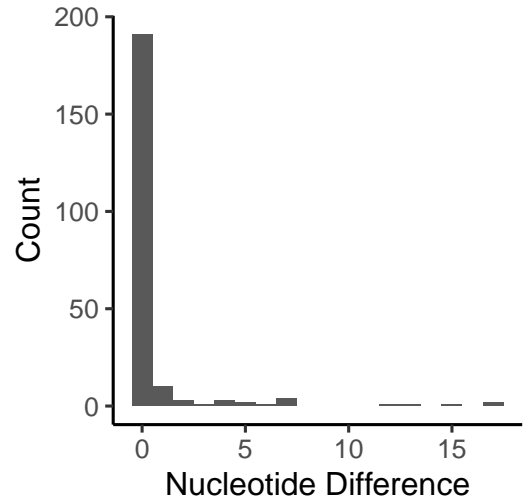
IGHV3-20*01

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



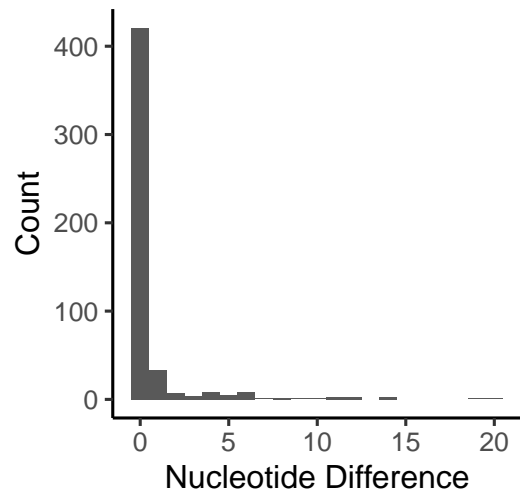
IGHV3-30-3*01

220 sequences assigned
191 (86.8%) exact matches, in which:
190 unique CDR3
6 unique J



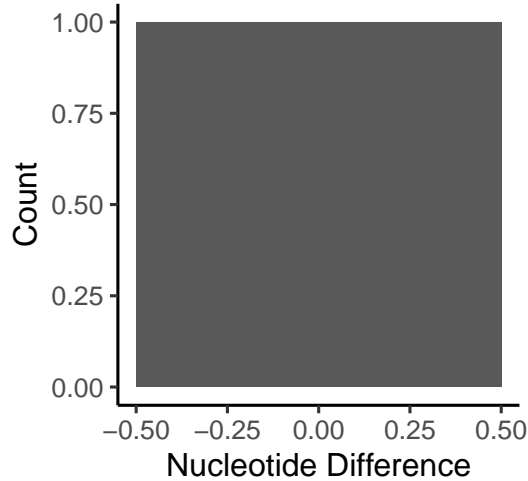
IGHV3–30*04

502 sequences assigned
421 (83.9%) exact matches, in which:
417 unique CDR3
6 unique J



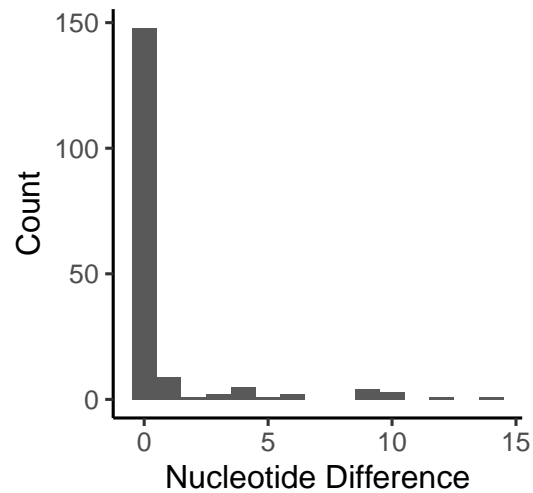
IGHV3–35*01

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



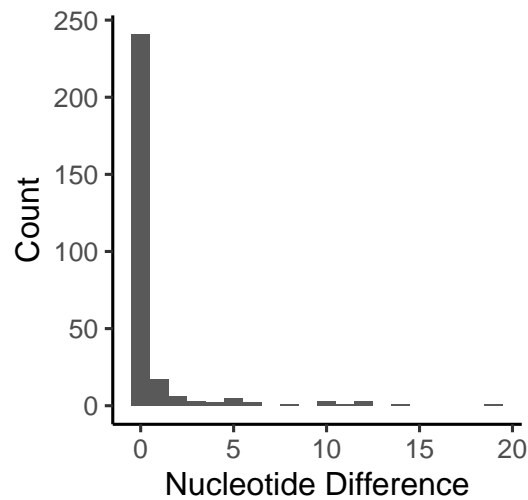
IGHV3–48*03

178 sequences assigned
148 (83.1%) exact matches, in which:
148 unique CDR3
6 unique J



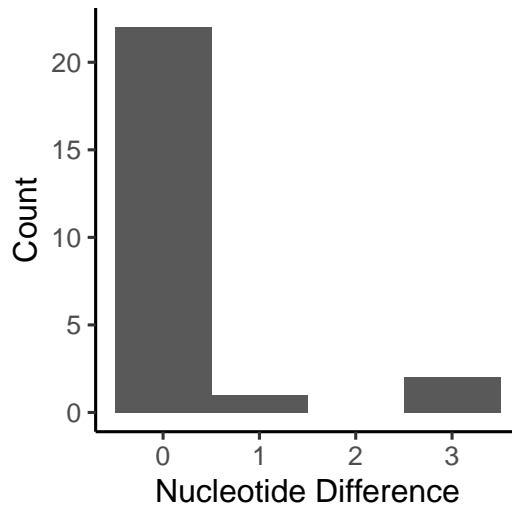
IGHV3–30*18

288 sequences assigned
241 (83.7%) exact matches, in which:
239 unique CDR3
6 unique J



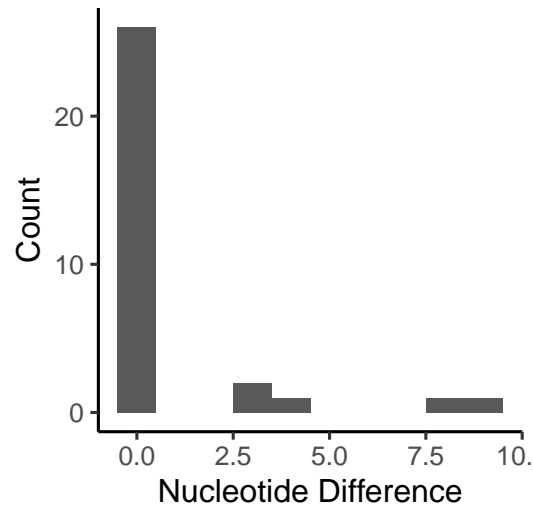
IGHV3–43*01

25 sequences assigned
22 (88%) exact matches, in which:
22 unique CDR3
4 unique J



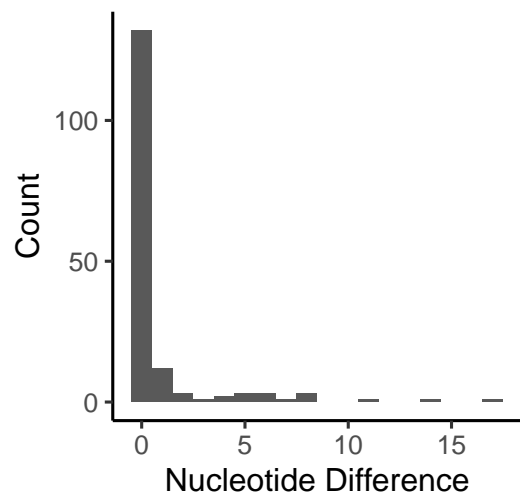
IGHV3–49*04

32 sequences assigned
26 (81.2%) exact matches, in which:
25 unique CDR3
4 unique J



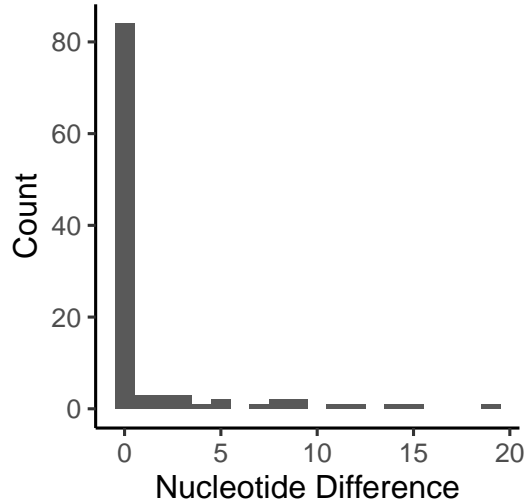
IGHV3–33*01

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



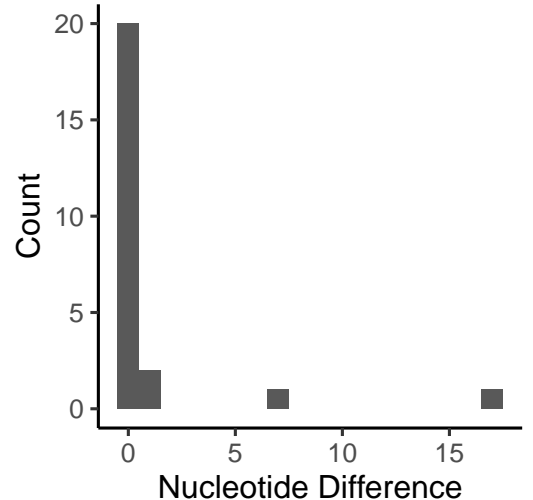
IGHV3–48*02

107 sequences assigned
84 (78.5%) exact matches, in which:
84 unique CDR3
5 unique J



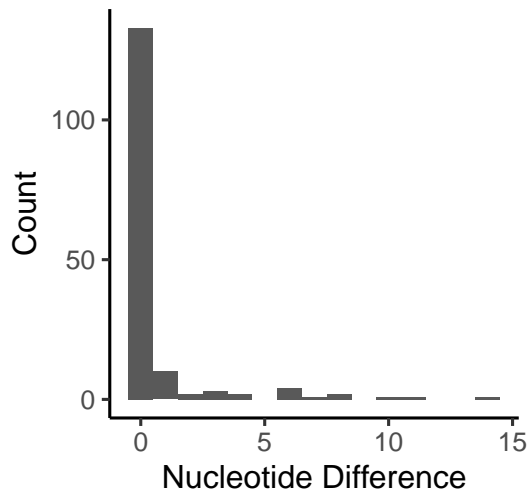
IGHV3–49*05

24 sequences assigned
20 (83.3%) exact matches, in which:
19 unique CDR3
4 unique J



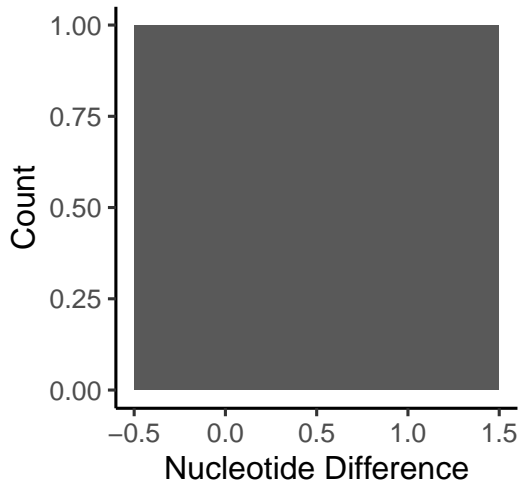
IGHV3–53*01

160 sequences assigned
133 (83.1%) exact matches, in which:
128 unique CDR3
6 unique J



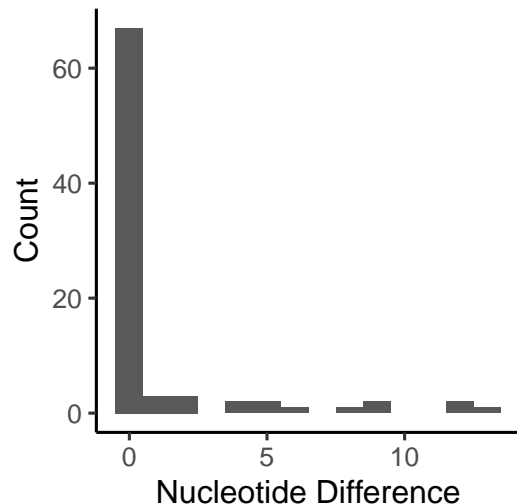
IGHV3–69–1*01

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



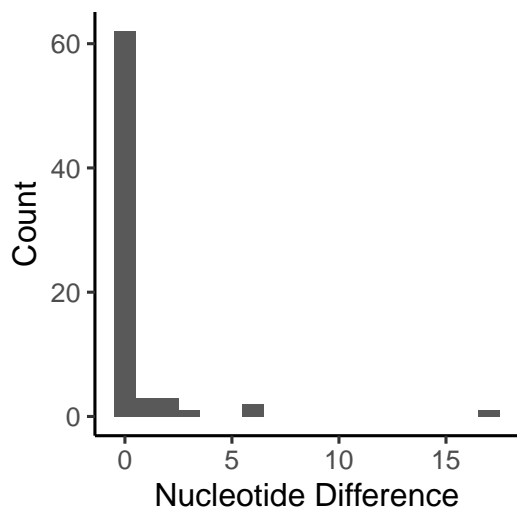
IGHV3–74*01

84 sequences assigned
67 (79.8%) exact matches, in which:
66 unique CDR3
5 unique J



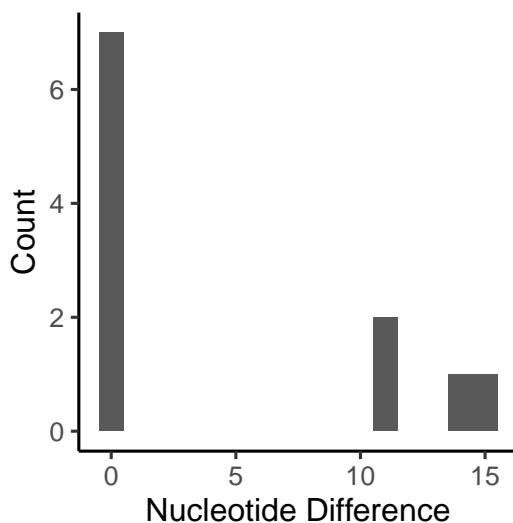
IGHV3–53*02_G88A

73 sequences assigned
62 (84.9%) exact matches, in which:
59 unique CDR3
5 unique J



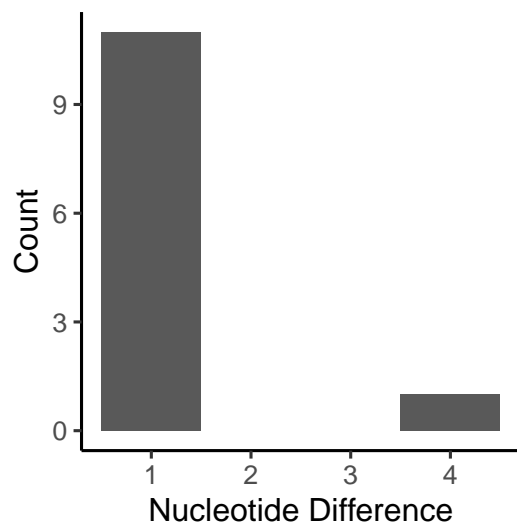
IGHV3–72*01

11 sequences assigned
7 (63.6%) exact matches, in which:
7 unique CDR3
3 unique J



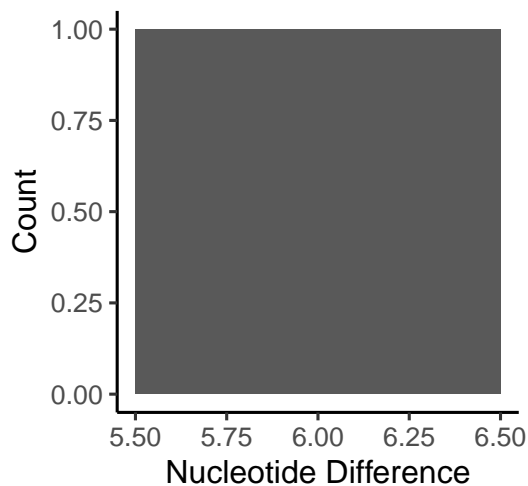
IGHV3–43D*04

12 sequences assigned
No exact matches.



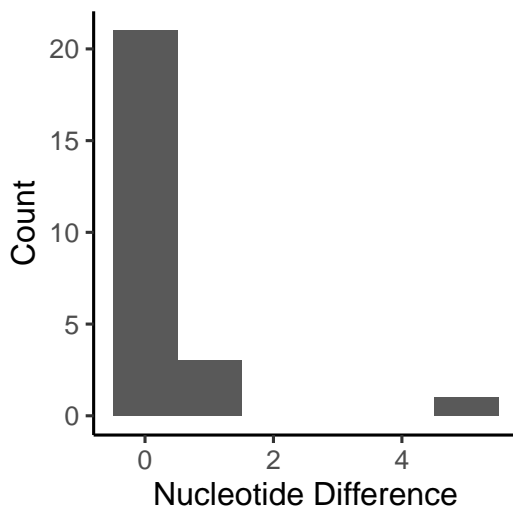
IGHV3–64*02

1 sequences assigned
No exact matches.



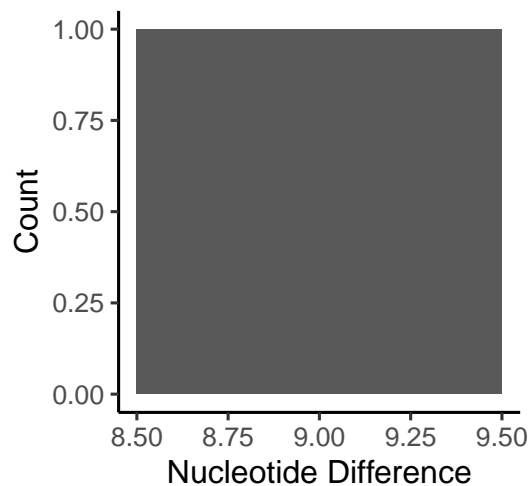
IGHV3–73*02

25 sequences assigned
21 (84%) exact matches, in which:
21 unique CDR3
4 unique J



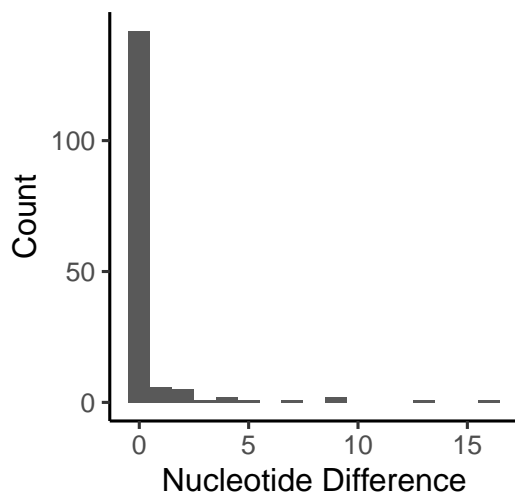
IGHV3–NL1*01

1 sequences assigned
No exact matches.



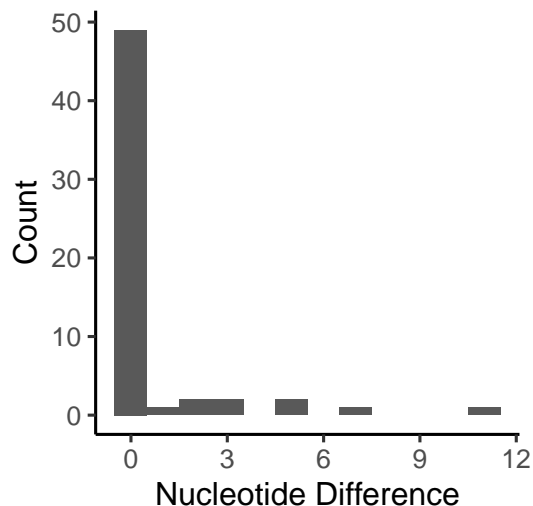
IGHV4-4*07

163 sequences assigned
142 (87.1%) exact matches, in which:
142 unique CDR3
6 unique J



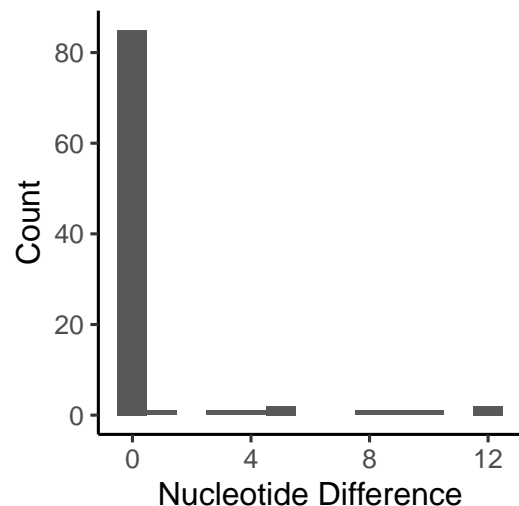
IGHV4-30-2*01

58 sequences assigned
49 (84.5%) exact matches, in which:
48 unique CDR3
5 unique J



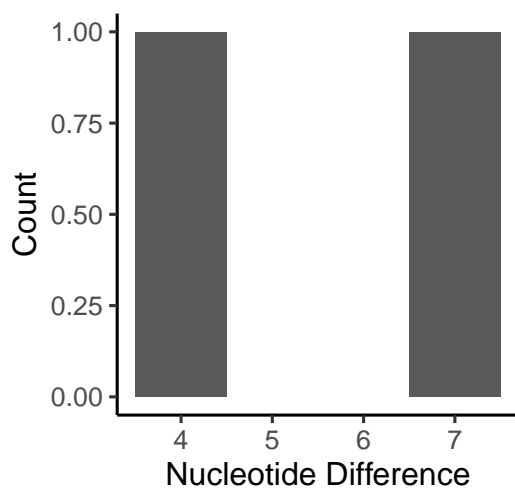
IGHV4-38-2*01

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



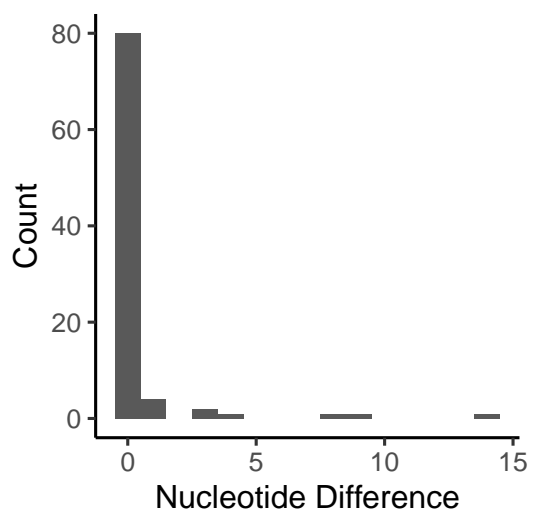
IGHV4-28*03

2 sequences assigned
No exact matches.



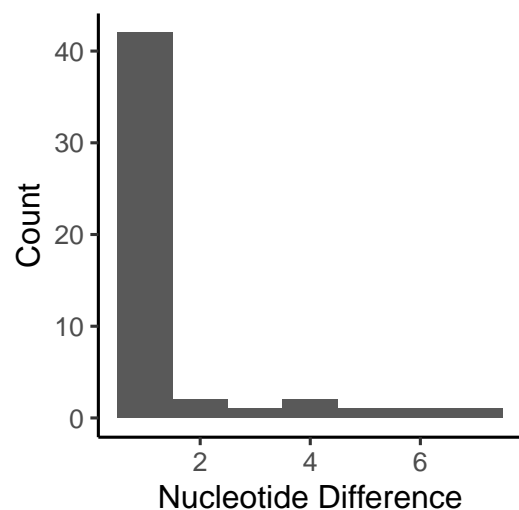
IGHV4-31*03

90 sequences assigned
80 (88.9%) exact matches, in which:
80 unique CDR3
5 unique J



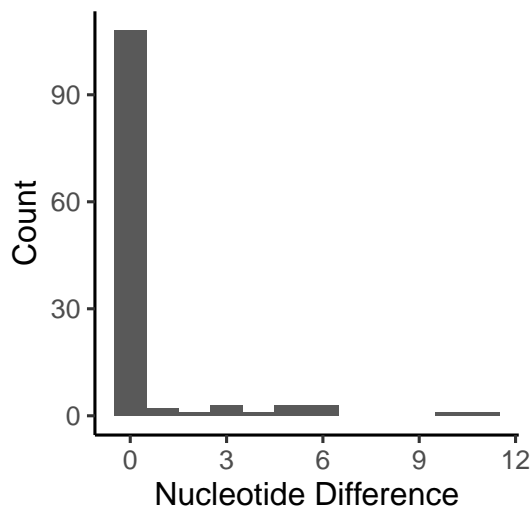
IGHV4-38-2*02

50 sequences assigned
No exact matches.



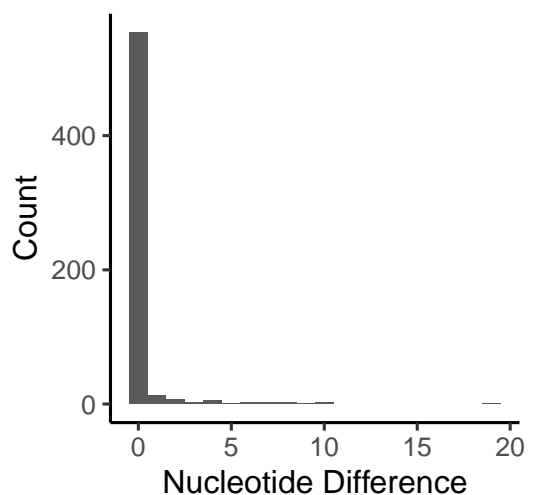
IGHV4-30-4*01

124 sequences assigned
108 (87.1%) exact matches, in which:
108 unique CDR3
6 unique J



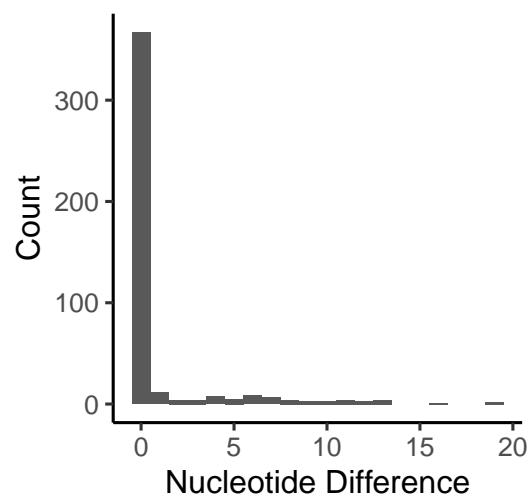
IGHV4-34*01

596 sequences assigned
554 (93%) exact matches, in which:
551 unique CDR3
6 unique J



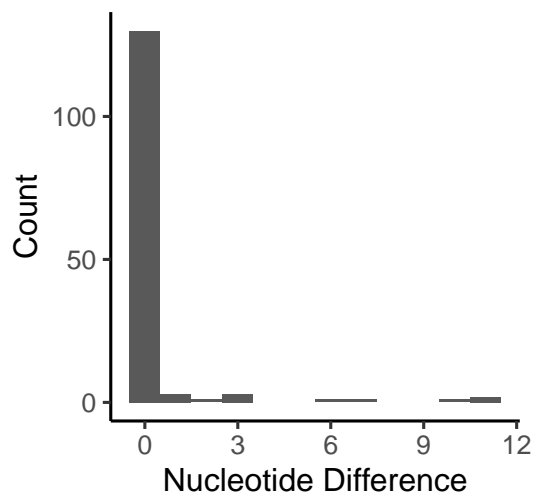
IGHV4-39*01

437 sequences assigned
367 (84%) exact matches, in which:
367 unique CDR3
6 unique J



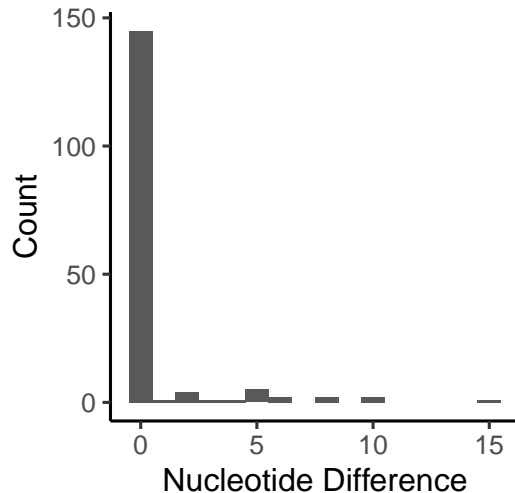
IGHV4–59*01

142 sequences assigned
130 (91.5%) exact matches, in which:
130 unique CDR3
6 unique J



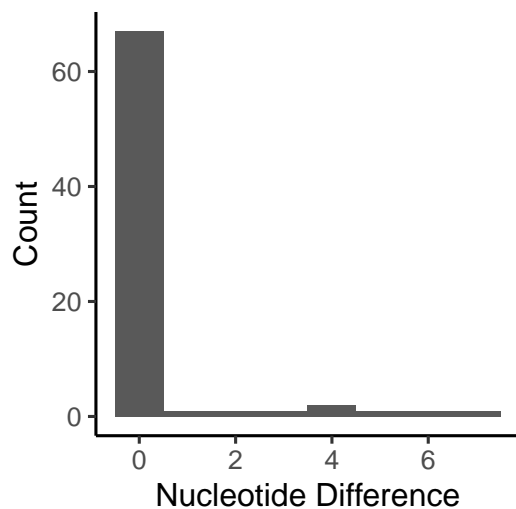
IGHV6–1*01

165 sequences assigned
145 (87.9%) exact matches, in which:
142 unique CDR3
6 unique J



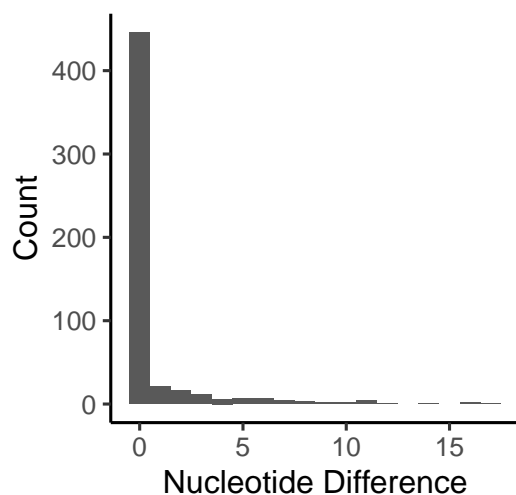
IGHV4–61*01

77 sequences assigned
67 (87%) exact matches, in which:
67 unique CDR3
5 unique J



IGHV5–51*01

536 sequences assigned
446 (83.2%) exact matches, in which:
443 unique CDR3
6 unique J



IGHV3-53*02_G88A

