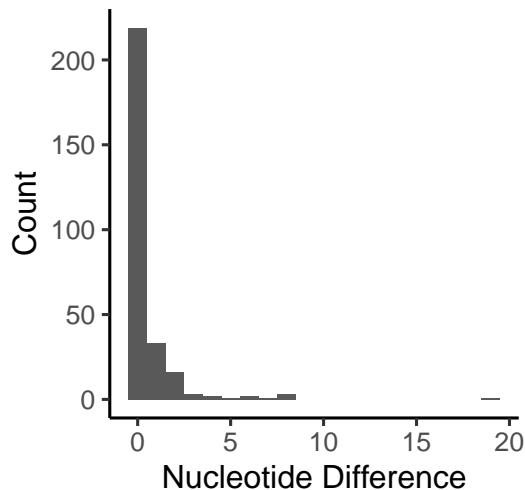


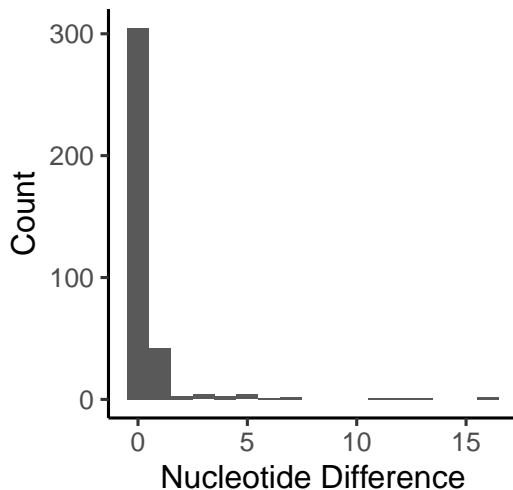
IGHV1-2*02

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



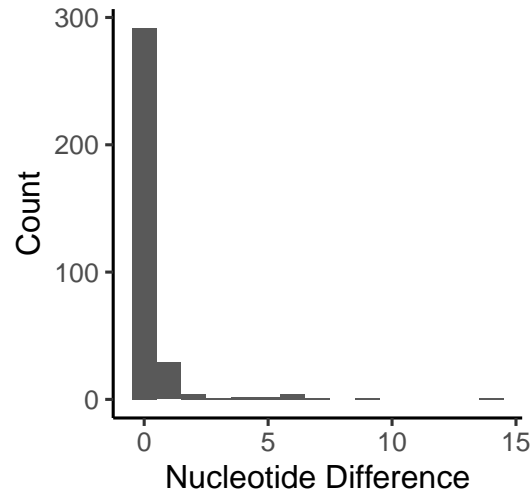
IGHV1-18*01

371 sequences assigned
305 (82.2%) exact matches, in which:
304 unique CDR3
6 unique J



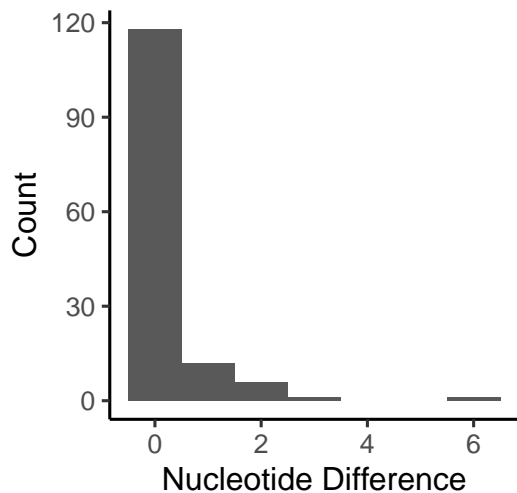
IGHV1-46*01

337 sequences assigned
292 (86.6%) exact matches, in which:
283 unique CDR3
6 unique J



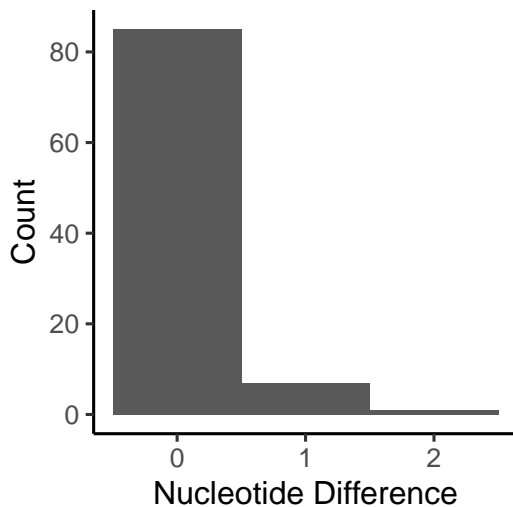
IGHV1-3*01

140 sequences assigned
118 (84.3%) exact matches, in which:
116 unique CDR3
6 unique J



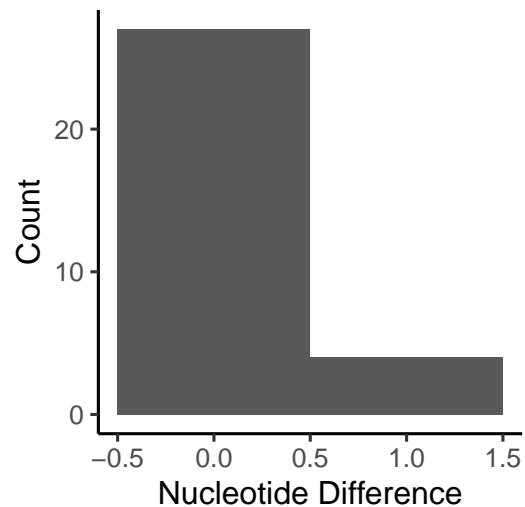
IGHV1-24*01

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



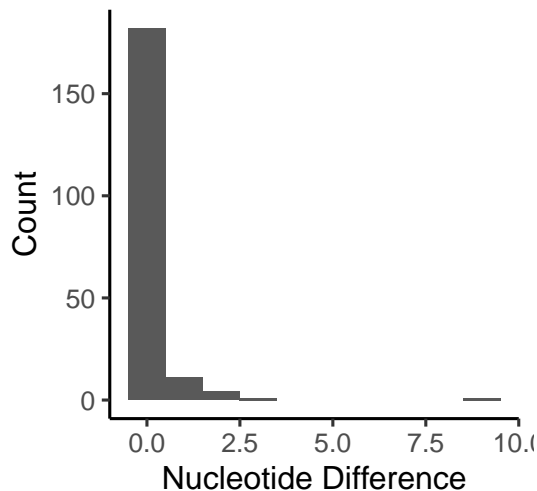
IGHV1-58*02

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



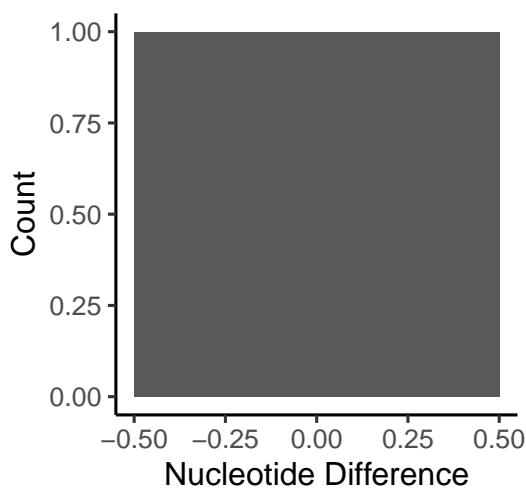
IGHV1-8*01

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



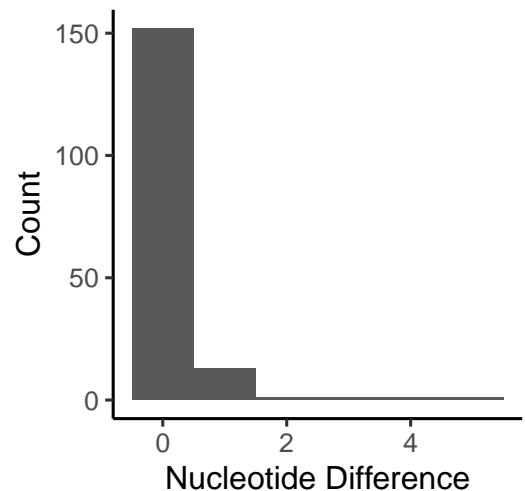
IGHV1-45*02

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



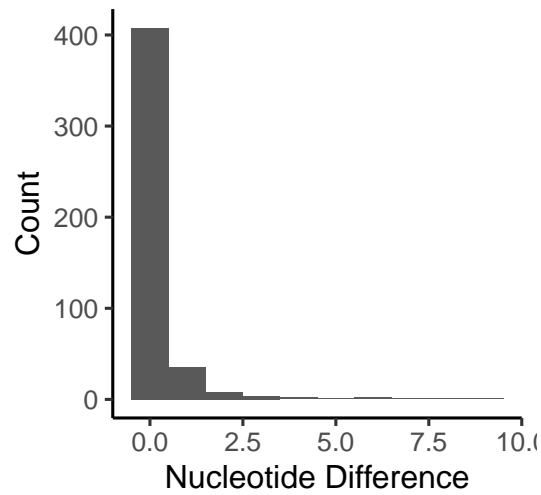
IGHV1-69*02

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



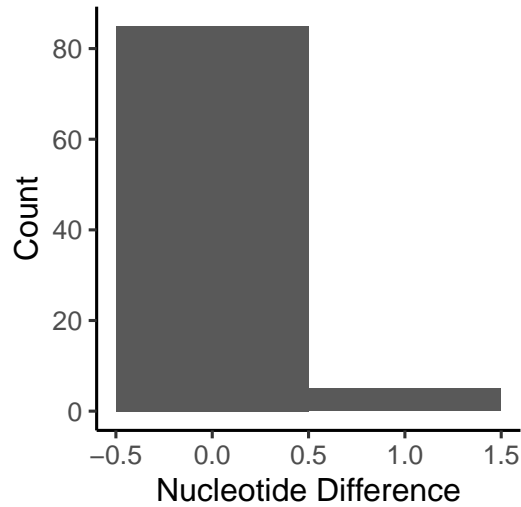
IGHV1–69*04

465 sequences assigned
408 (87.7%) exact matches, in which:
405 unique CDR3
6 unique J



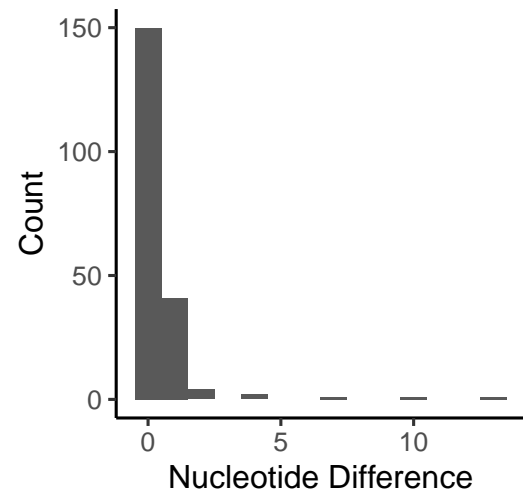
IGHV2–26*01

92 sequences assigned
85 (92.4%) exact matches, in which:
85 unique CDR3
5 unique J



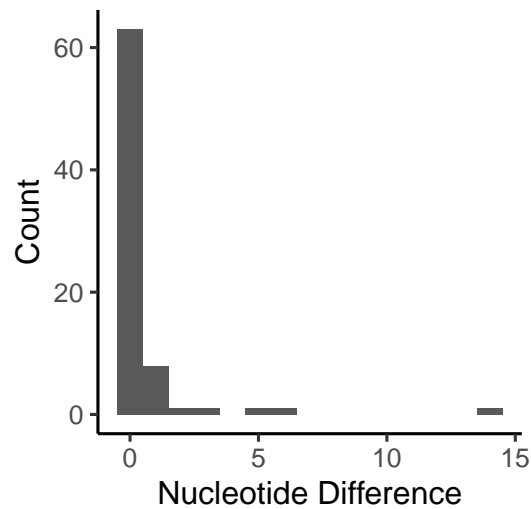
IGHV3–7*03

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



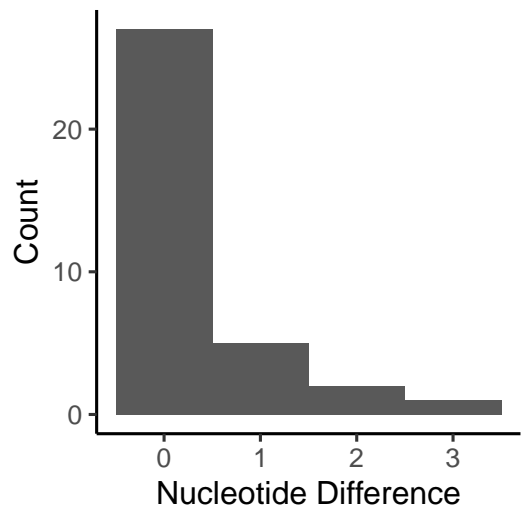
IGHV2–5*01

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



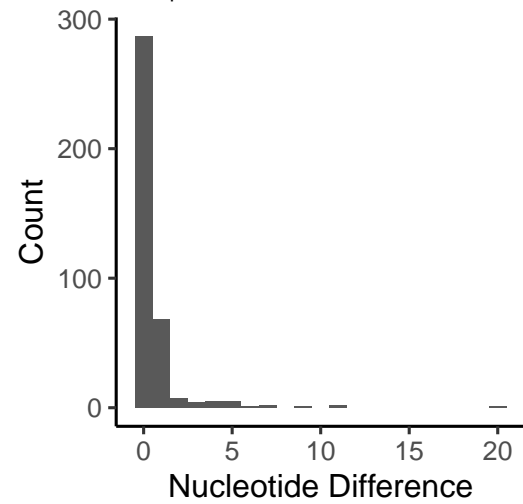
IGHV2–70*15

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



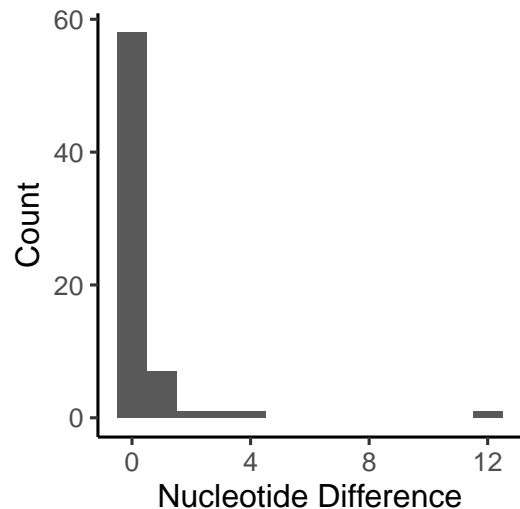
IGHV3–9*01

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



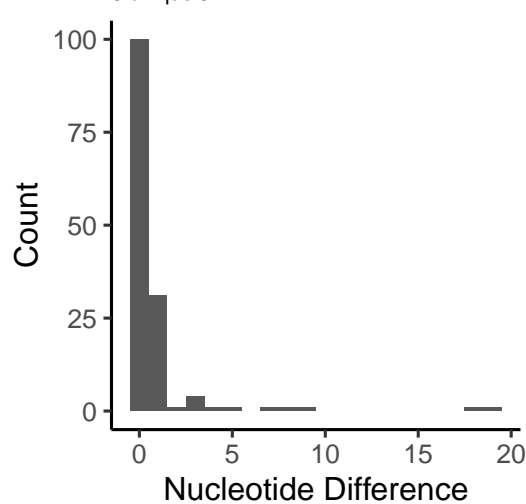
IGHV2–5*02

69 sequences assigned
58 (84.1%) exact matches, in which:
58 unique CDR3
6 unique J



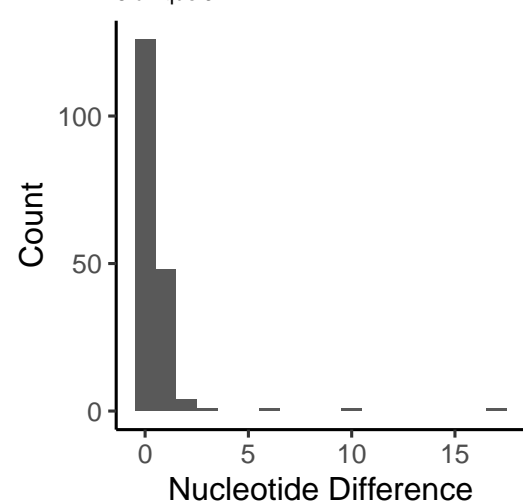
IGHV3–7*01

143 sequences assigned
100 (69.9%) exact matches, in which:
98 unique CDR3
5 unique J



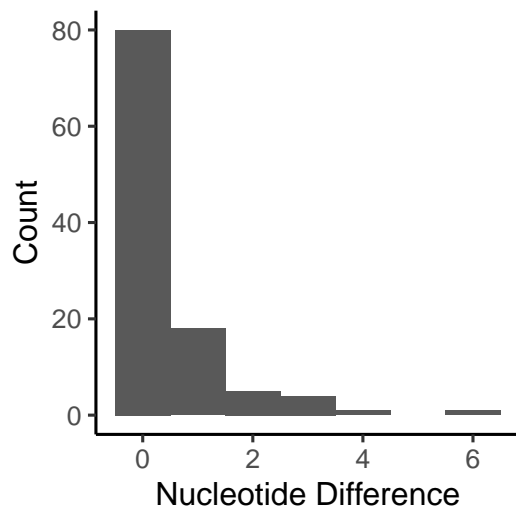
IGHV3–11*01

185 sequences assigned
126 (68.1%) exact matches, in which:
125 unique CDR3
5 unique J



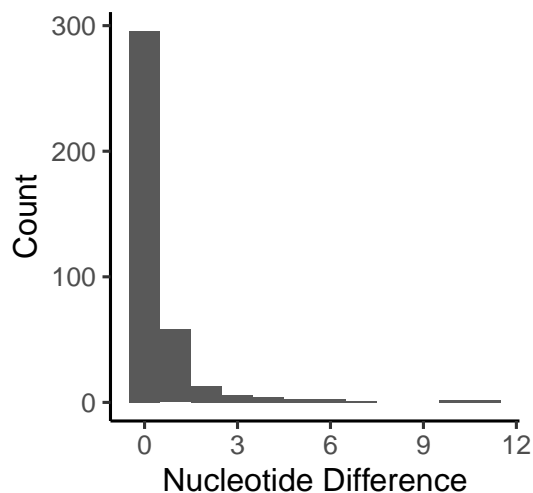
IGHV3-11*06

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



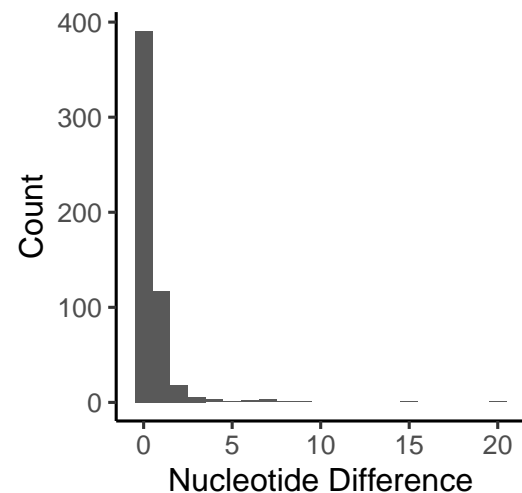
IGHV3-15*01

389 sequences assigned
296 (76.1%) exact matches, in which:
291 unique CDR3
6 unique J



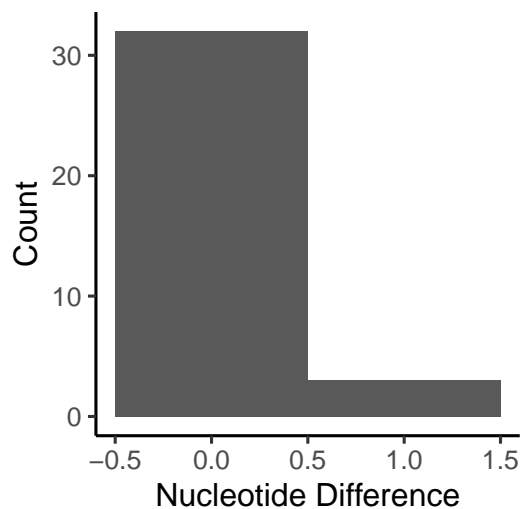
IGHV3-30-3*01

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



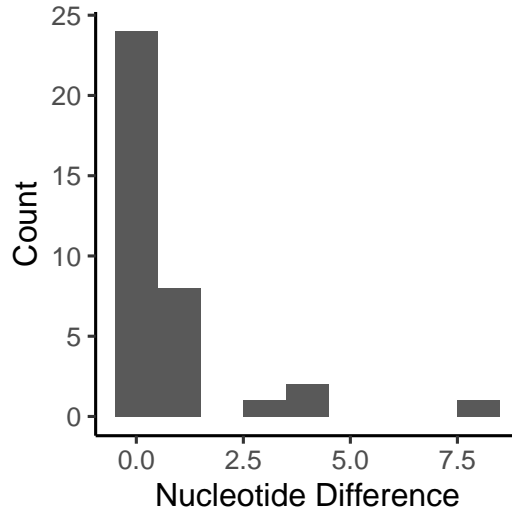
IGHV3-13*01

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



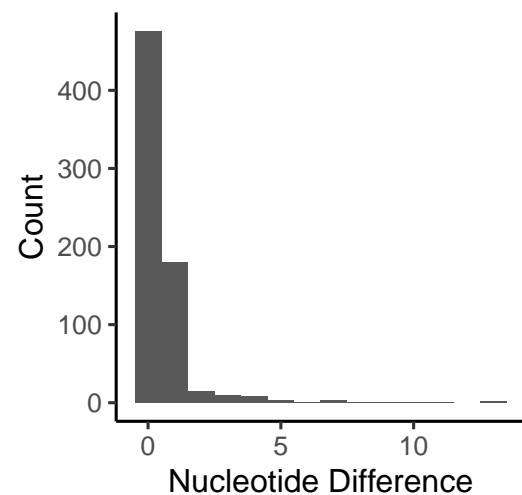
IGHV3-20*01

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



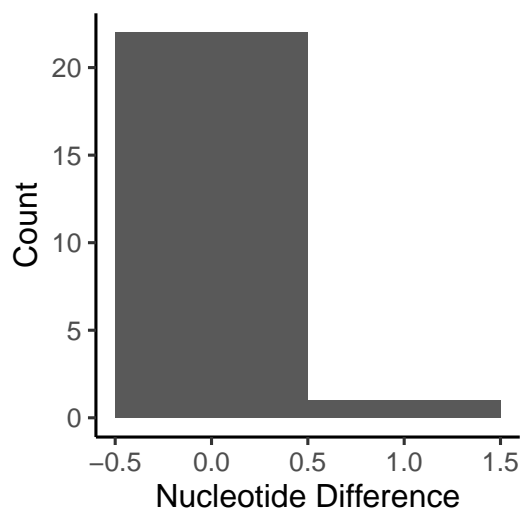
IGHV3-33*01

701 sequences assigned
476 (67.9%) exact matches, in which:
467 unique CDR3
6 unique J



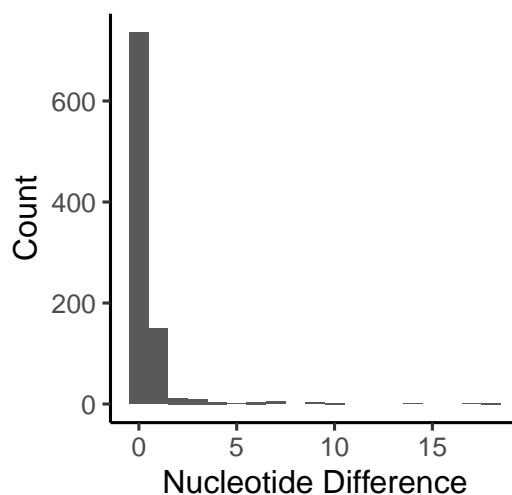
IGHV3-13*05

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



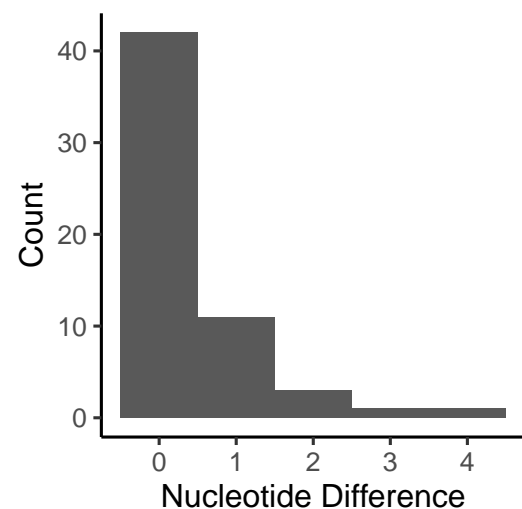
IGHV3-21*01

932 sequences assigned
736 (79%) exact matches, in which:
723 unique CDR3
6 unique J



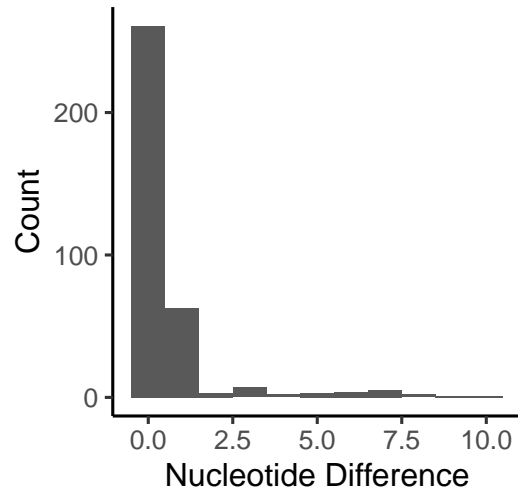
IGHV3-43*01

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



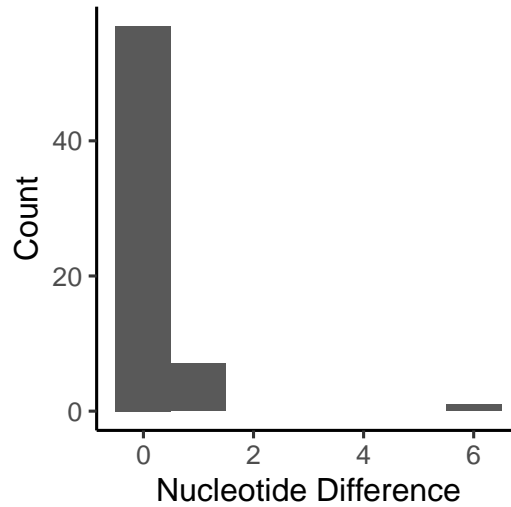
IGHV3-48*01

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



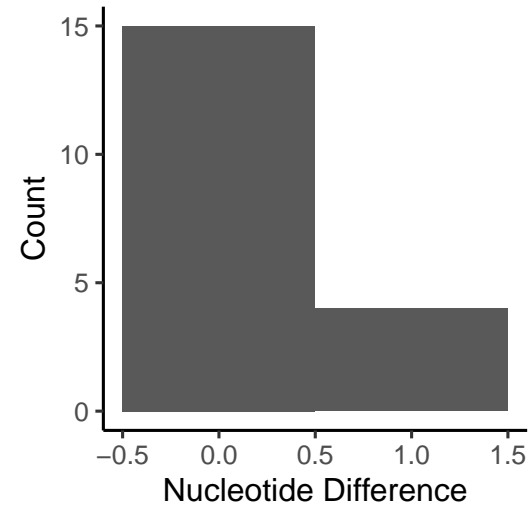
IGHV3-64*01

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



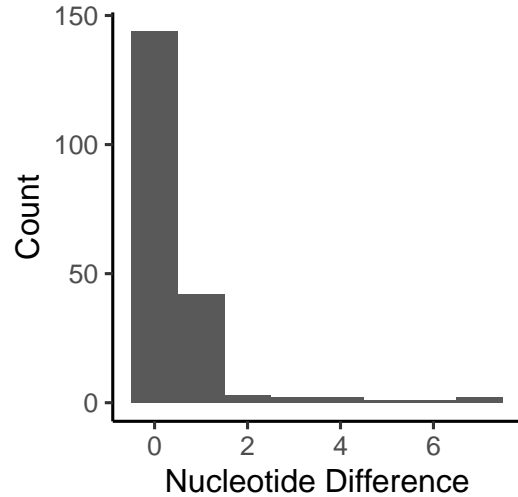
IGHV3-72*01

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



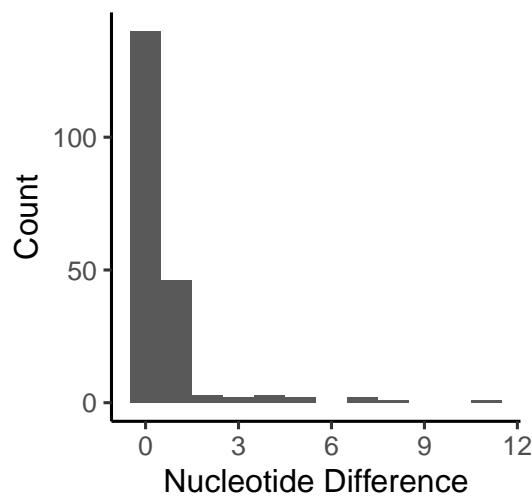
IGHV3-49*03

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



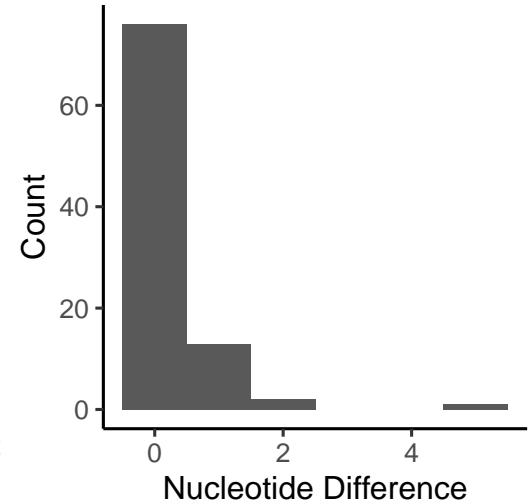
IGHV3-66*01

200 sequences assigned
140 (70%) exact matches, in which:
139 unique CDR3
6 unique J



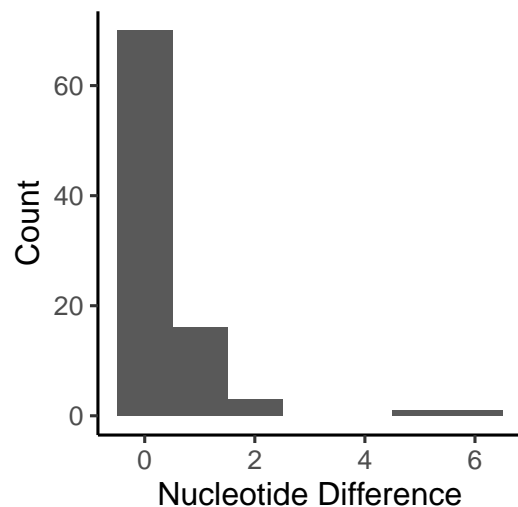
IGHV3-73*01

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



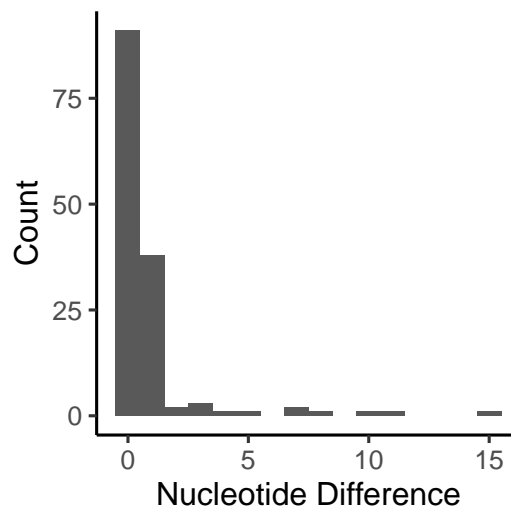
IGHV3-53*02

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



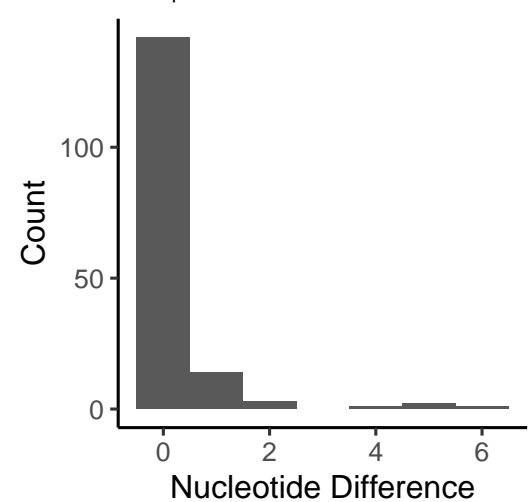
IGHV3-66*02

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



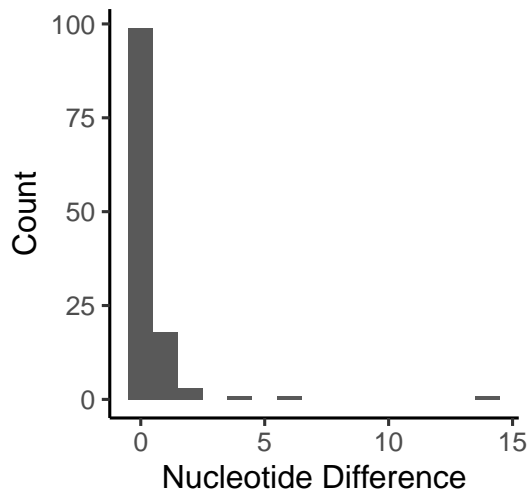
IGHV3-74*01

164 sequences assigned
142 (86.6%) exact matches, in which:
141 unique CDR3
6 unique J



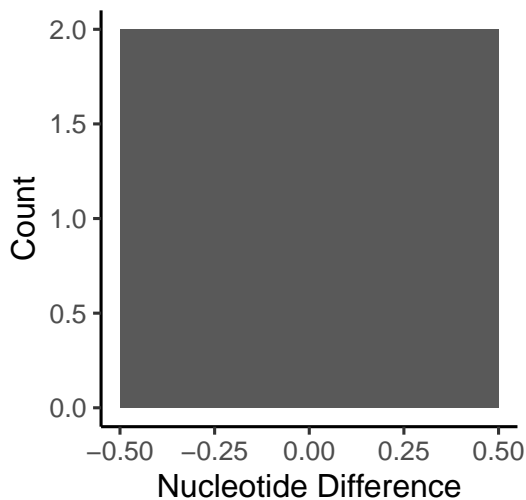
IGHV3–64D*06

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



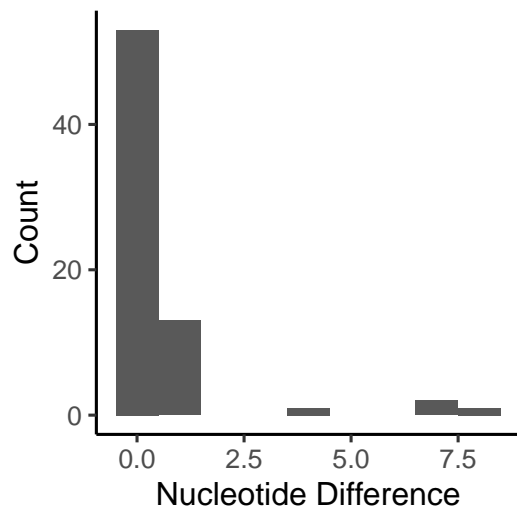
IGHV4–28*01

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



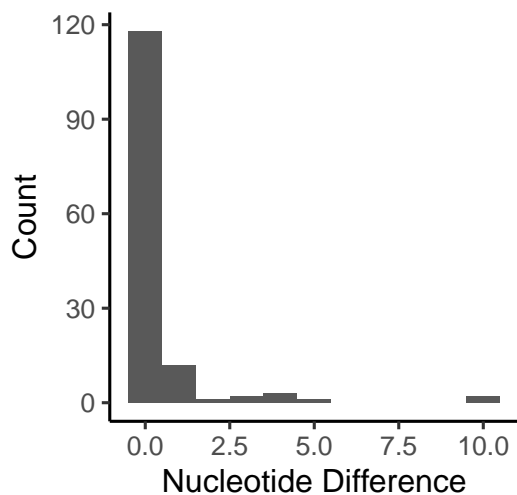
IGHV4–30–2*01

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



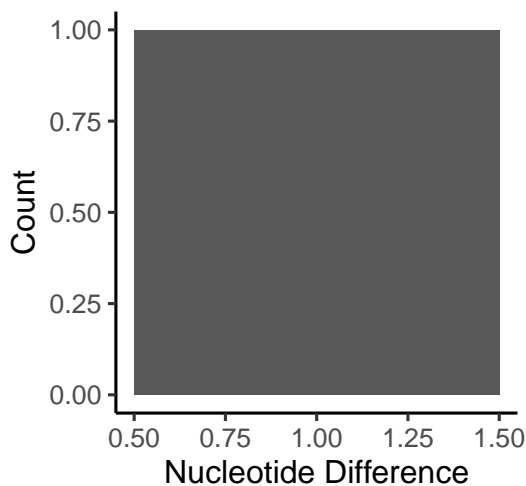
IGHV4–4*02

139 sequences assigned
118 (84.9%) exact matches, in which:
118 unique CDR3
6 unique J



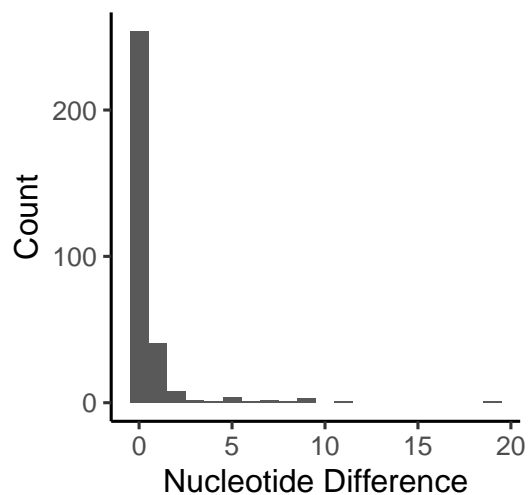
IGHV4–28*04

1 sequences assigned
No exact matches.



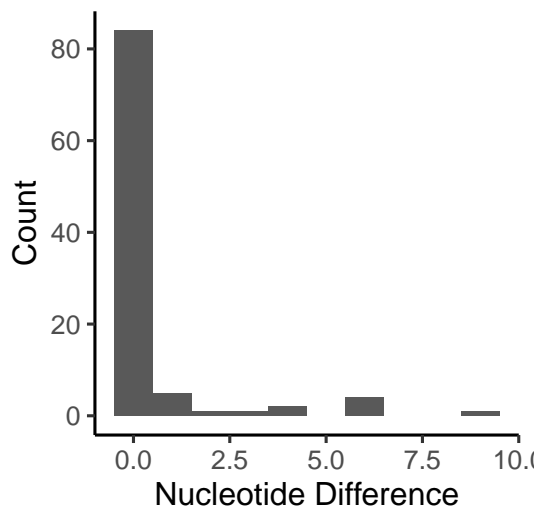
IGHV4–31*03

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



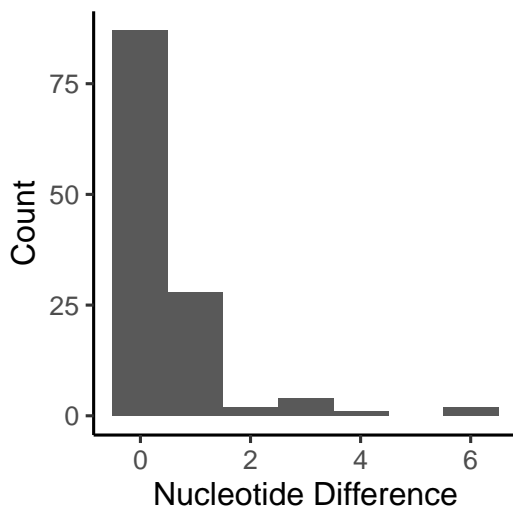
IGHV4–4*07

98 sequences assigned
84 (85.7%) exact matches, in which:
83 unique CDR3
5 unique J



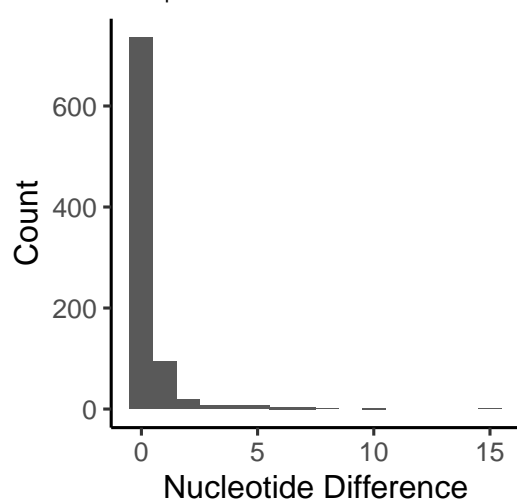
IGHV4–30–4*01

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



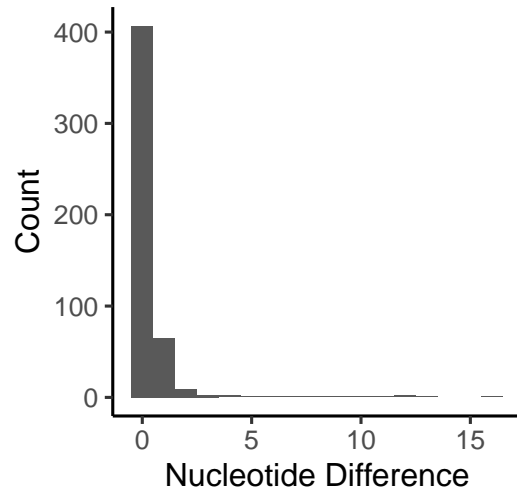
IGHV4–34*01

883 sequences assigned
736 (83.4%) exact matches, in which:
726 unique CDR3
6 unique J



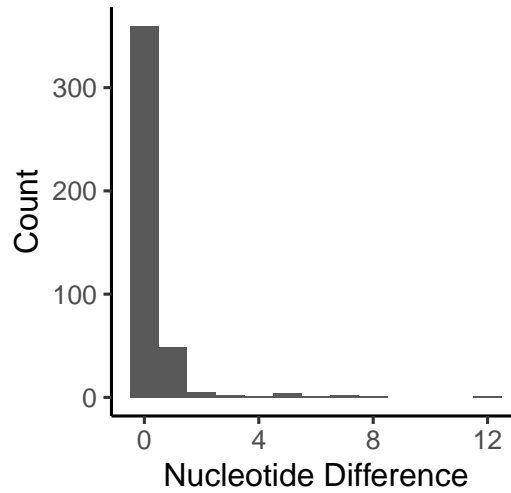
IGHV4-39*01

499 sequences assigned
407 (81.6%) exact matches, in which:
397 unique CDR3
6 unique J



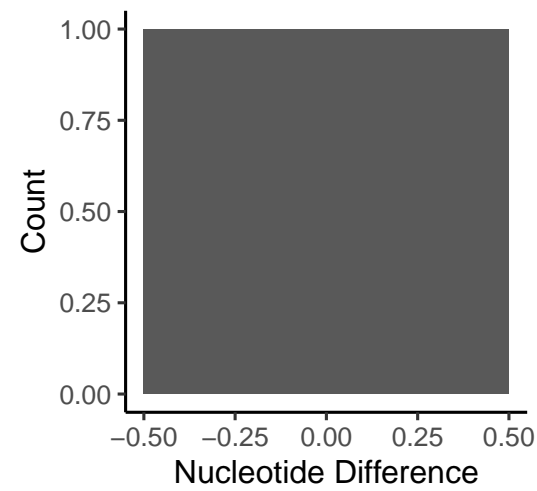
IGHV4-59*01

426 sequences assigned
360 (84.5%) exact matches, in which:
356 unique CDR3
6 unique J



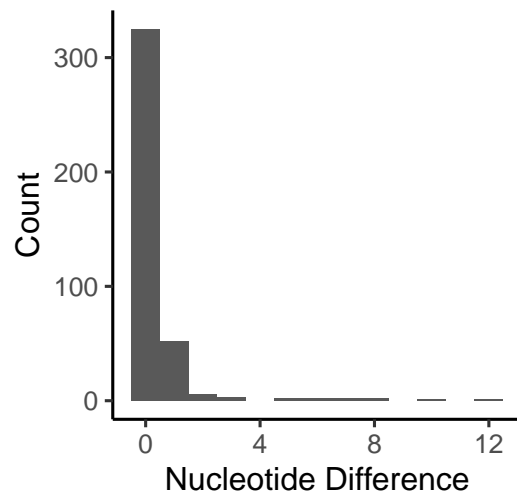
IGHV1/OR15-2*01

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



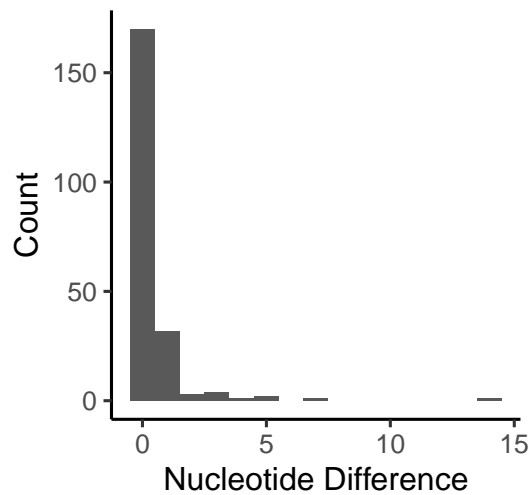
IGHV4-39*07

396 sequences assigned
325 (82.1%) exact matches, in which:
318 unique CDR3
6 unique J



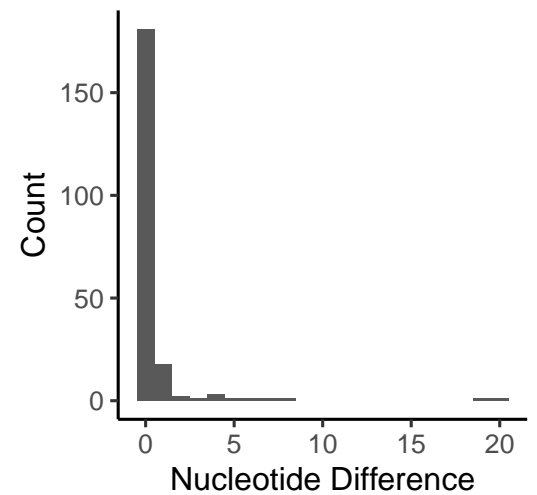
IGHV4-59*08

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



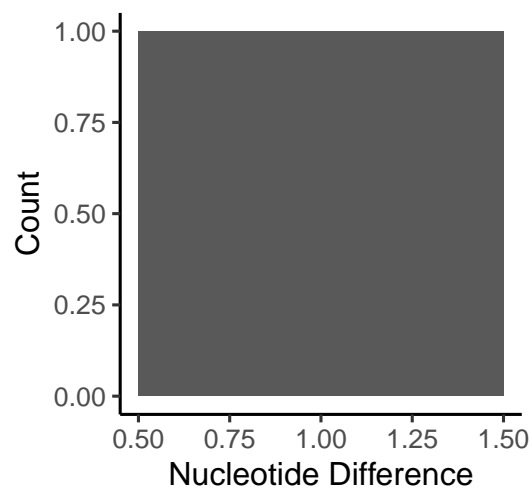
IGHV5-10-1*03

211 sequences assigned
181 (85.8%) exact matches, in which:
180 unique CDR3
6 unique J



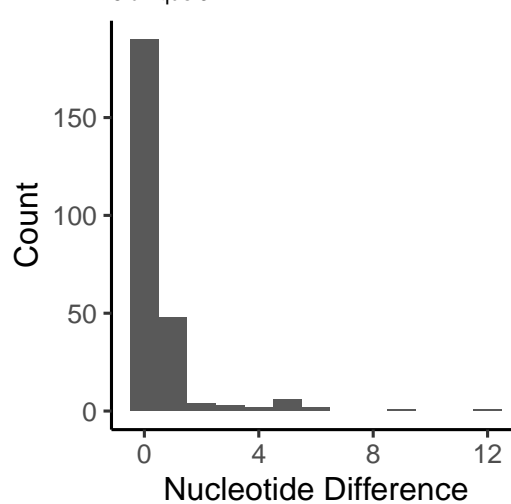
IGHV4-55*08

1 sequences assigned
No exact matches.



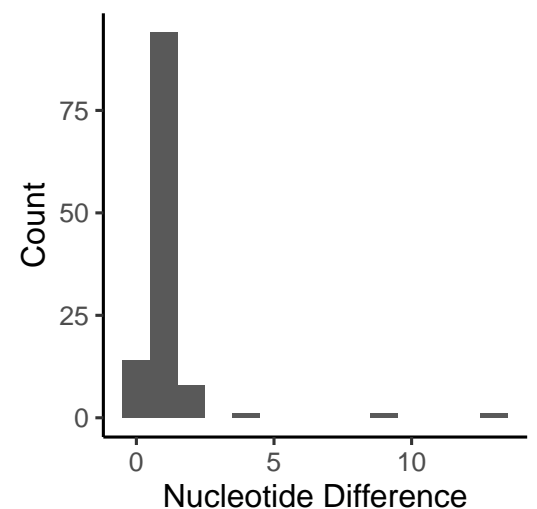
IGHV4-61*02

257 sequences assigned
190 (73.9%) exact matches, in which:
189 unique CDR3
6 unique J



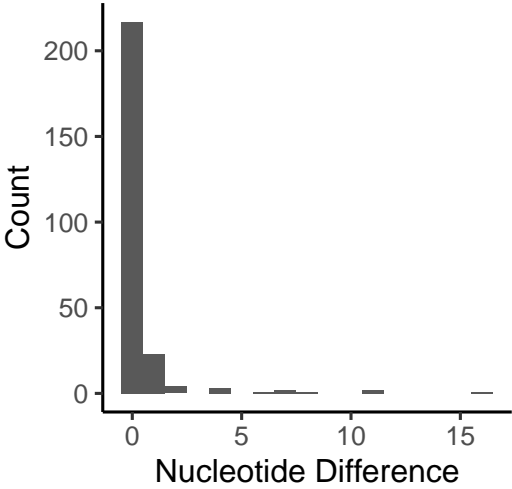
IGHV5-51*01

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



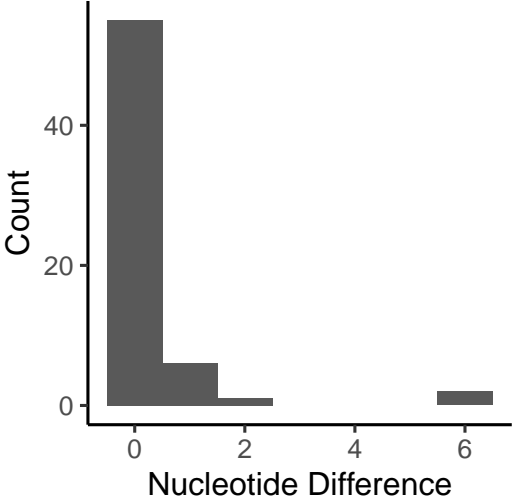
IGHV5–51*03

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



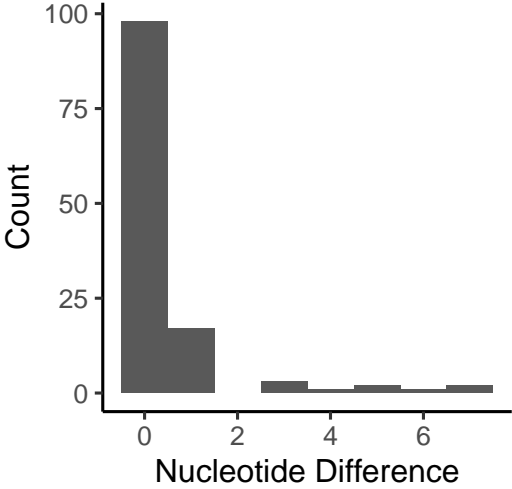
IGHV6–1*01

64 sequences assigned
55 (85.9%) exact matches, in which:
53 unique CDR3
4 unique J



IGHV7–4–1*02

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





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