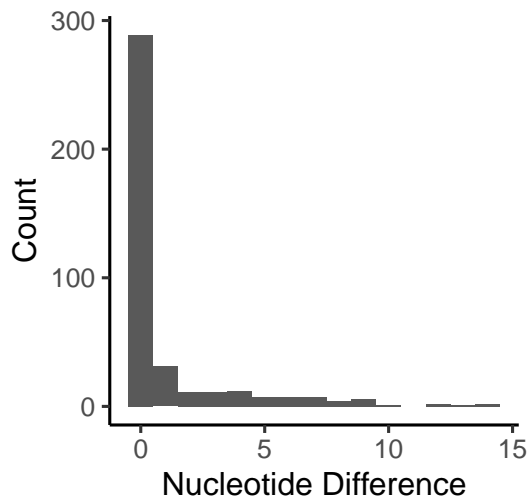


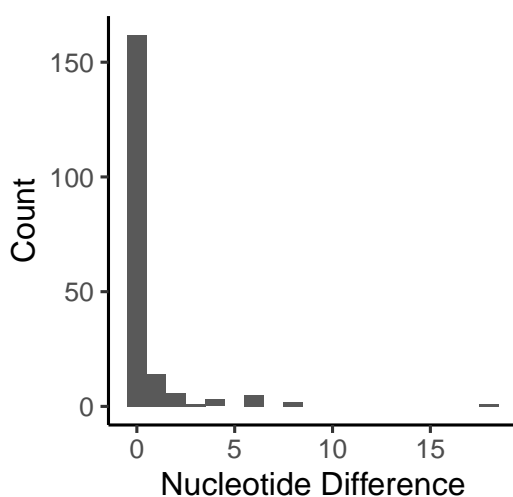
IGHV1-2*02

391 sequences assigned
289 (73.9%) exact matches, in which:
278 unique CDR3
6 unique J



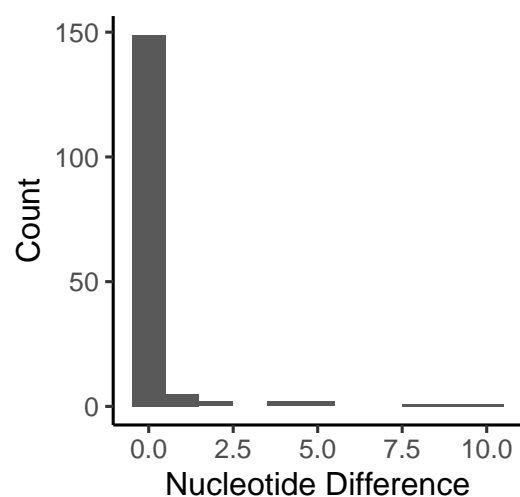
IGHV1-8*01

195 sequences assigned
162 (83.1%) exact matches, in which:
160 unique CDR3
6 unique J



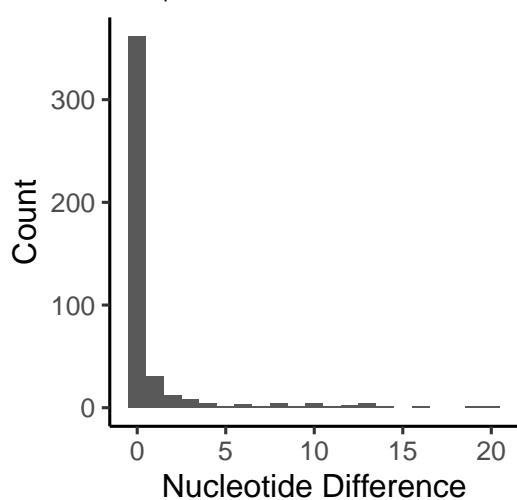
IGHV1-24*01

163 sequences assigned
149 (91.4%) exact matches, in which:
141 unique CDR3
6 unique J



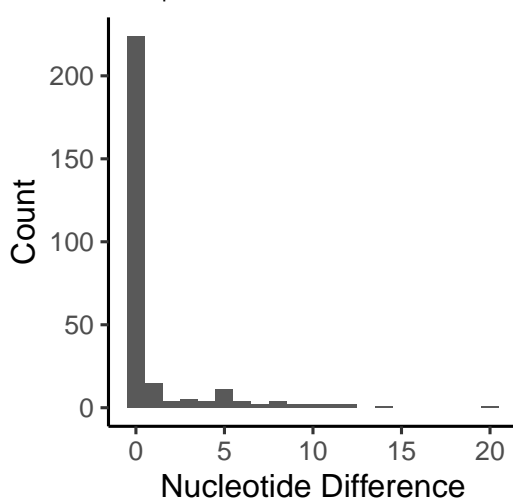
IGHV1-2*06

443 sequences assigned
362 (81.7%) exact matches, in which:
341 unique CDR3
6 unique J



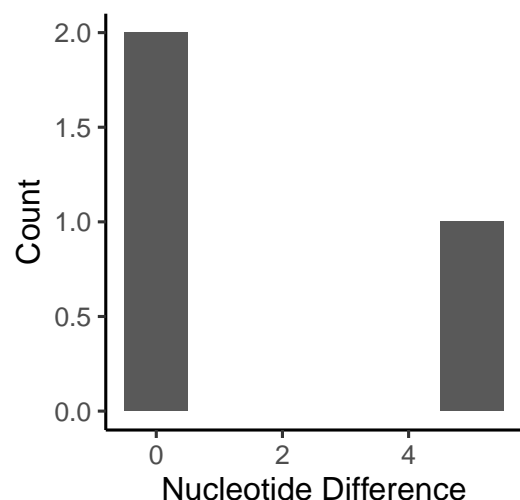
IGHV1-18*01

285 sequences assigned
224 (78.6%) exact matches, in which:
217 unique CDR3
6 unique J



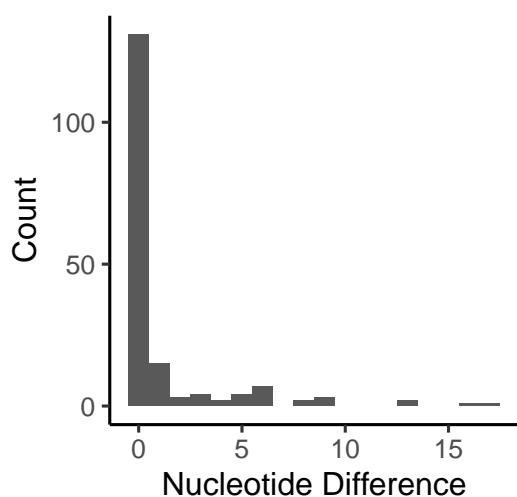
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



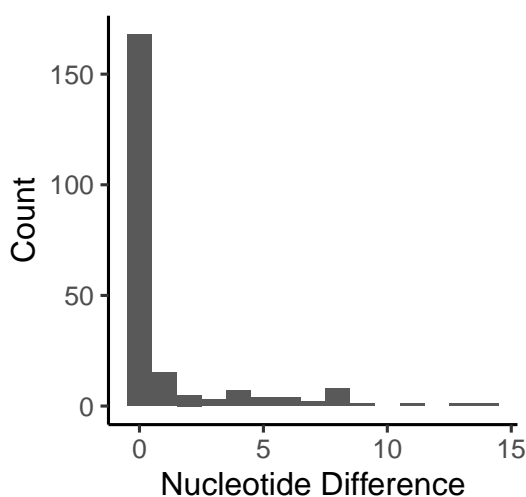
IGHV1-3*01

176 sequences assigned
131 (74.4%) exact matches, in which:
124 unique CDR3
6 unique J



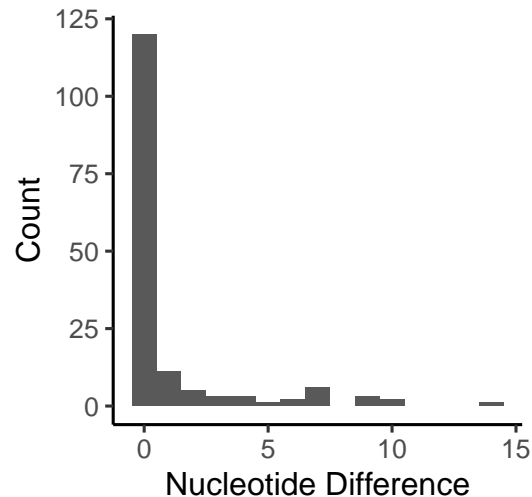
IGHV1-18*04

220 sequences assigned
168 (76.4%) exact matches, in which:
162 unique CDR3
6 unique J



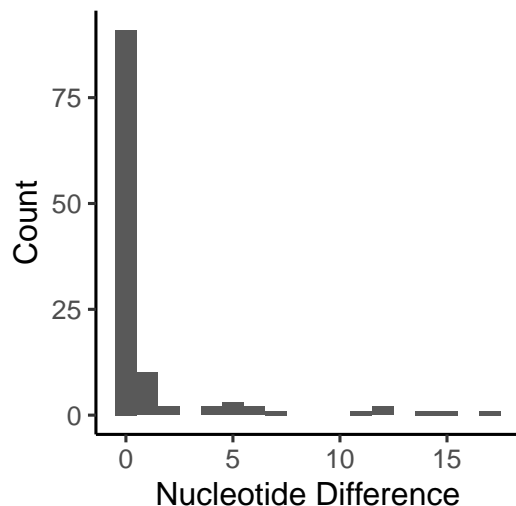
IGHV1-46*01

157 sequences assigned
120 (76.4%) exact matches, in which:
117 unique CDR3
5 unique J



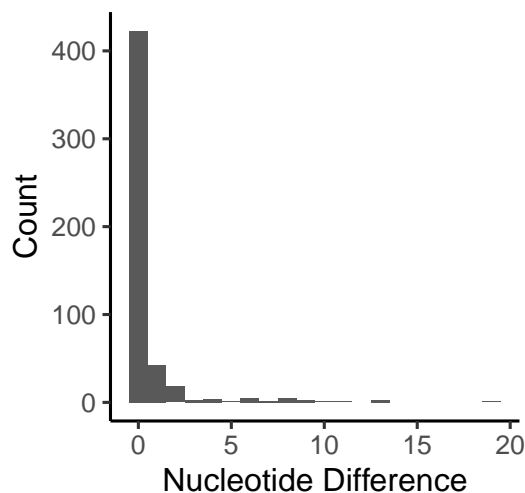
IGHV1-46*03

117 sequences assigned
91 (77.8%) exact matches, in which:
85 unique CDR3
5 unique J



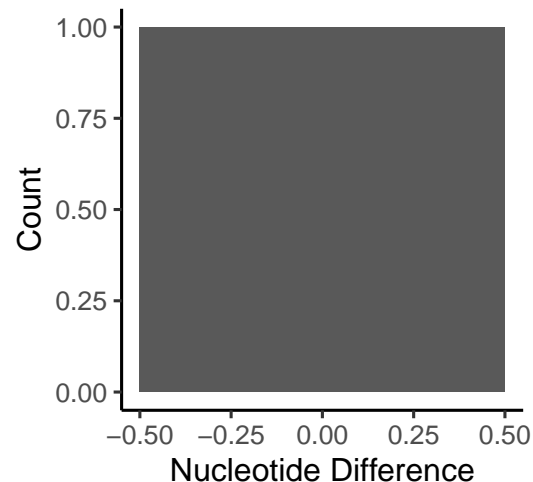
IGHV1-69*12

513 sequences assigned
423 (82.5%) exact matches, in which:
409 unique CDR3
6 unique J



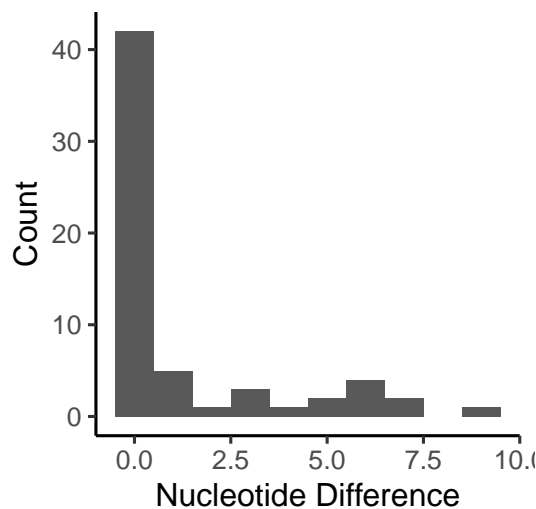
IGHV1-NL1*01

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



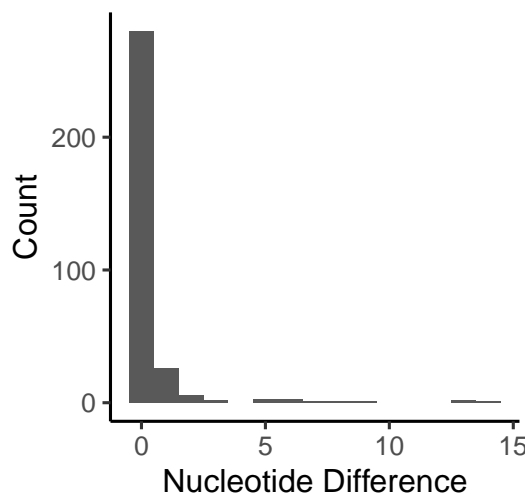
IGHV1-58*01

61 sequences assigned
42 (68.9%) exact matches, in which:
40 unique CDR3
6 unique J



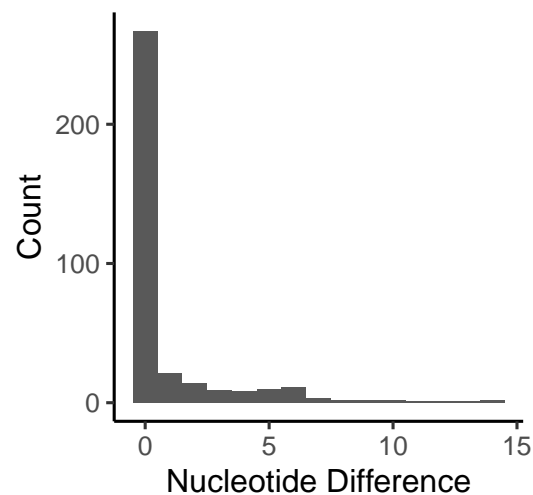
IGHV1-69*08_C191T

326 sequences assigned
280 (85.9%) exact matches, in which:
267 unique CDR3
6 unique J



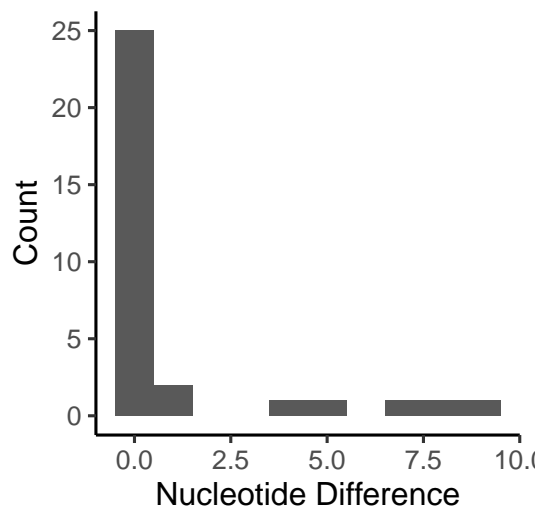
IGHV2-5*02

354 sequences assigned
267 (75.4%) exact matches, in which:
258 unique CDR3
6 unique J



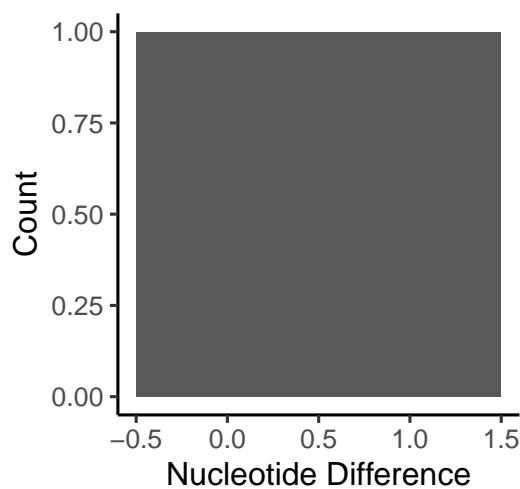
IGHV1-58*02

32 sequences assigned
25 (78.1%) exact matches, in which:
25 unique CDR3
5 unique J



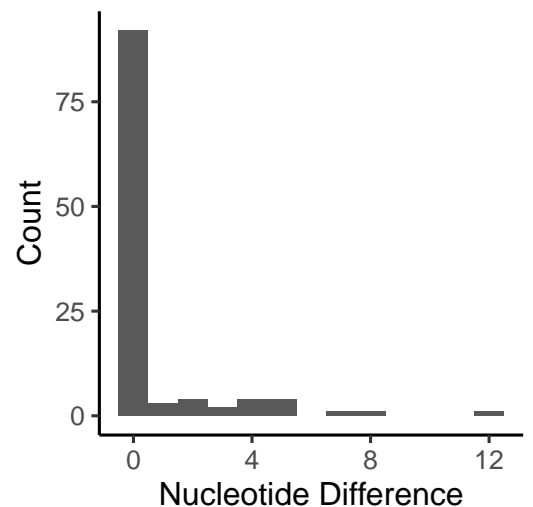
IGHV1-69D*01

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



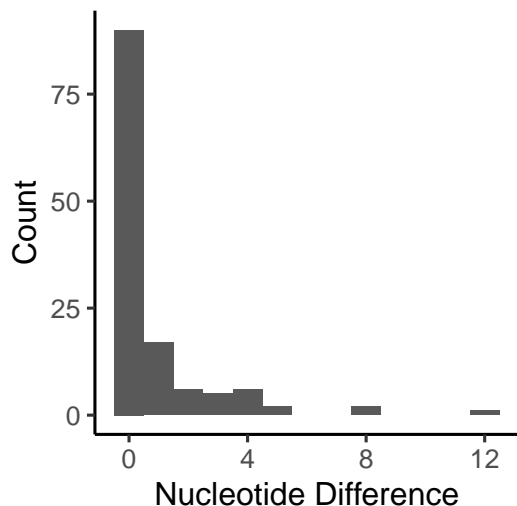
IGHV2-26*01

112 sequences assigned
92 (82.1%) exact matches, in which:
91 unique CDR3
5 unique J



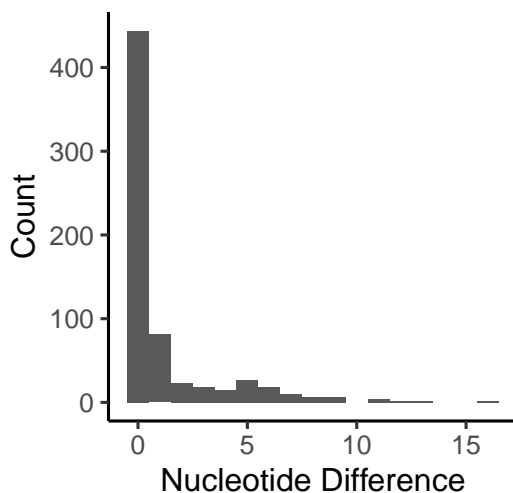
IGHV2-70*15

129 sequences assigned
90 (69.8%) exact matches, in which:
89 unique CDR3
5 unique J



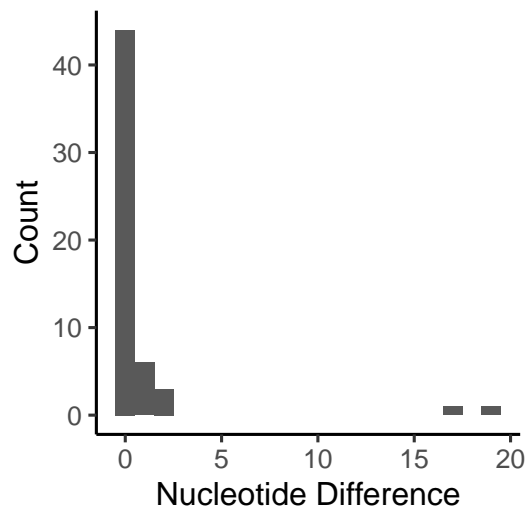
IGHV3-9*01

658 sequences assigned
444 (67.5%) exact matches, in which:
405 unique CDR3
6 unique J



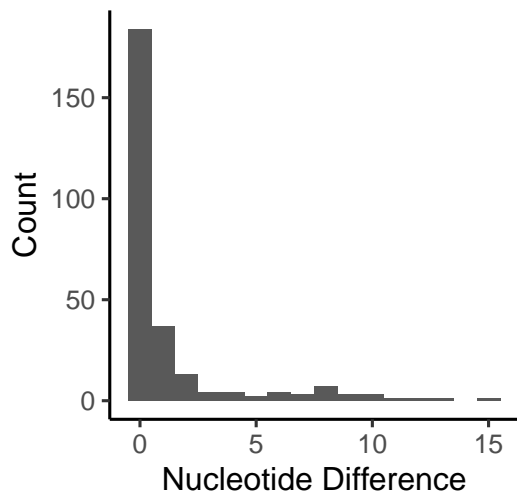
IGHV3-13*01

55 sequences assigned
44 (80%) exact matches, in which:
41 unique CDR3
6 unique J



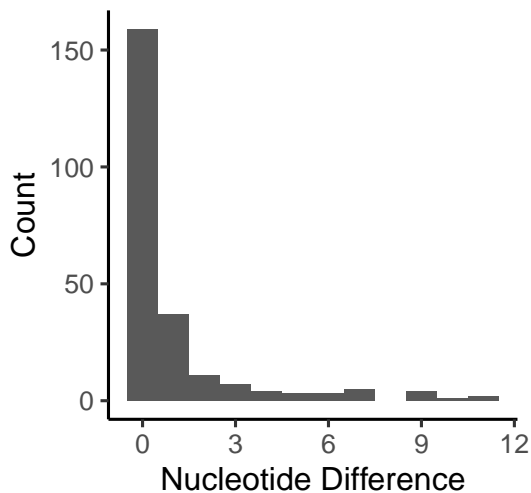
IGHV3-7*01

268 sequences assigned
184 (68.7%) exact matches, in which:
173 unique CDR3
6 unique J



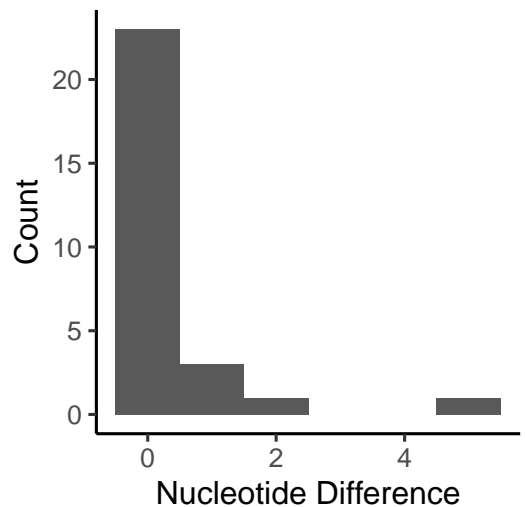
IGHV3-11*01

236 sequences assigned
159 (67.4%) exact matches, in which:
150 unique CDR3
6 unique J



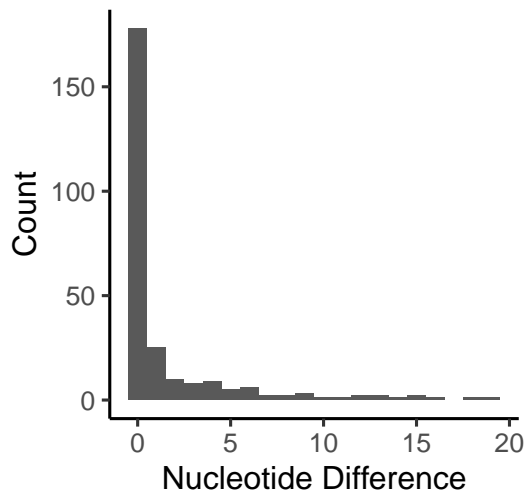
IGHV3-13*05

28 sequences assigned
23 (82.1%) exact matches, in which:
22 unique CDR3
5 unique J



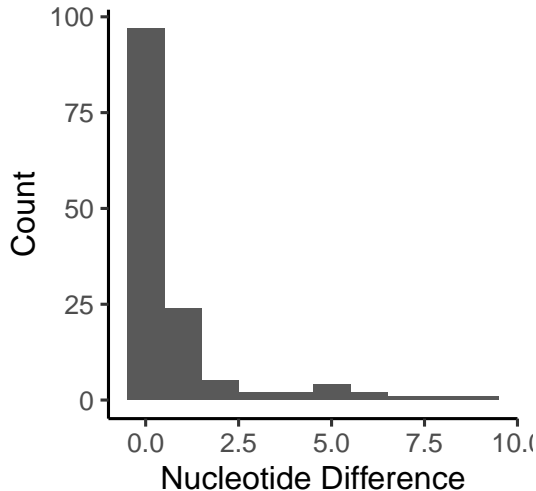
IGHV3-7*03

261 sequences assigned
178 (68.2%) exact matches, in which:
169 unique CDR3
5 unique J



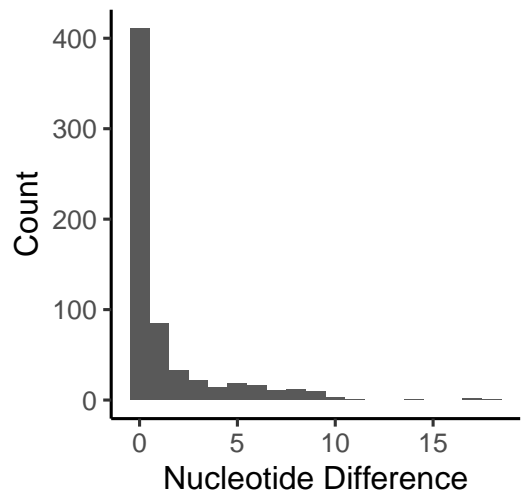
IGHV3-11*06

139 sequences assigned
97 (69.8%) exact matches, in which:
91 unique CDR3
5 unique J



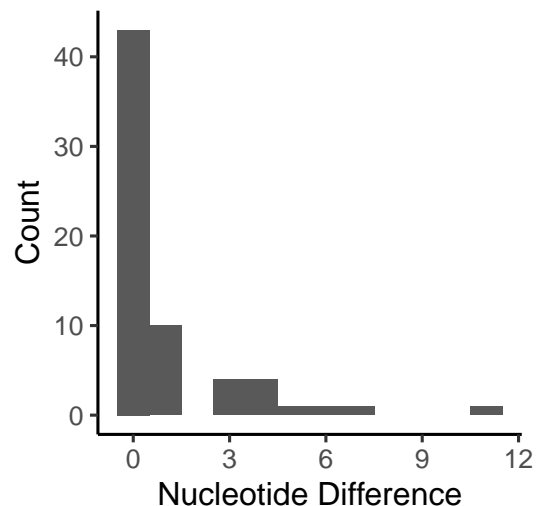
IGHV3-15*01

639 sequences assigned
411 (64.3%) exact matches, in which:
389 unique CDR3
6 unique J



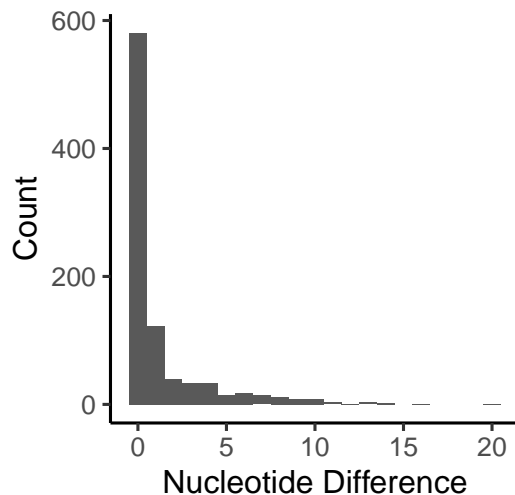
IGHV3–20*01

65 sequences assigned
43 (66.2%) exact matches, in which:
39 unique CDR3
6 unique J



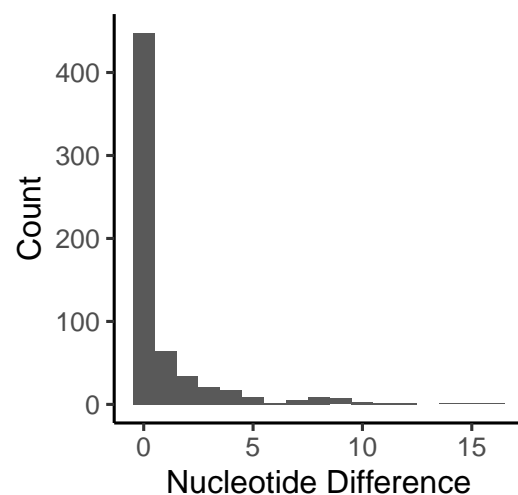
IGHV3–33*01

901 sequences assigned
581 (64.5%) exact matches, in which:
543 unique CDR3
6 unique J



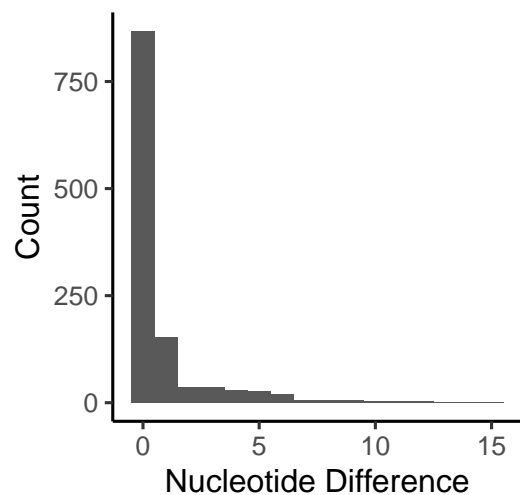
IGHV3–48*02

627 sequences assigned
448 (71.5%) exact matches, in which:
431 unique CDR3
6 unique J



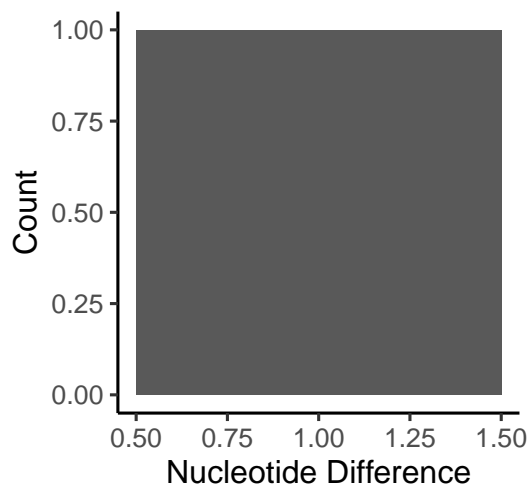
IGHV3–21*01

1201 sequences assigned
868 (72.3%) exact matches, in which:
813 unique CDR3
6 unique J



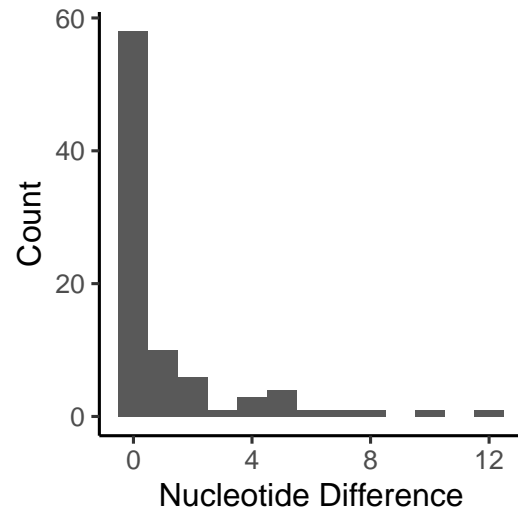
IGHV3–35*01

1 sequences assigned
No exact matches.



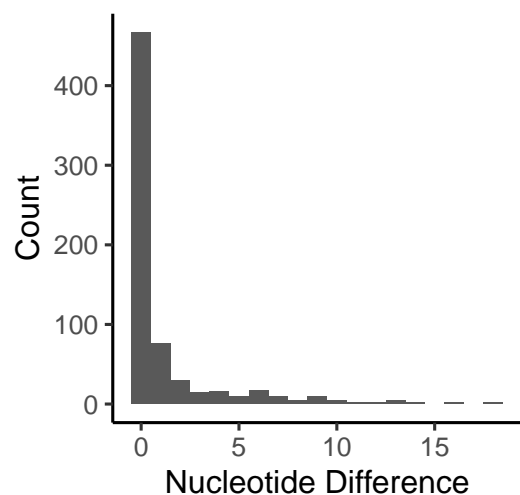
IGHV3–49*03

87 sequences assigned
58 (66.7%) exact matches, in which:
56 unique CDR3
5 unique J



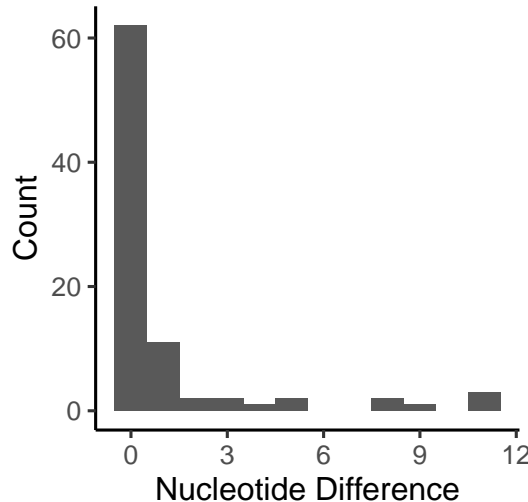
IGHV3–30–3*01

671 sequences assigned
467 (69.6%) exact matches, in which:
431 unique CDR3
6 unique J



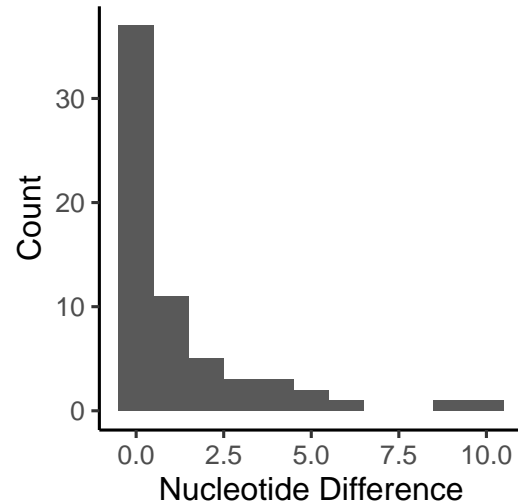
IGHV3–43*01

86 sequences assigned
62 (72.1%) exact matches, in which:
56 unique CDR3
6 unique J



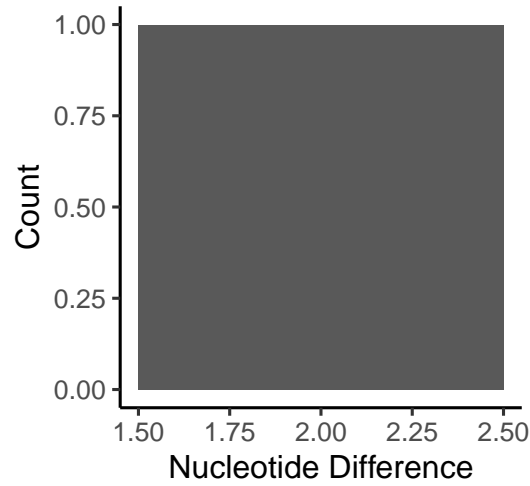
IGHV3–49*05

64 sequences assigned
37 (57.8%) exact matches, in which:
35 unique CDR3
5 unique J



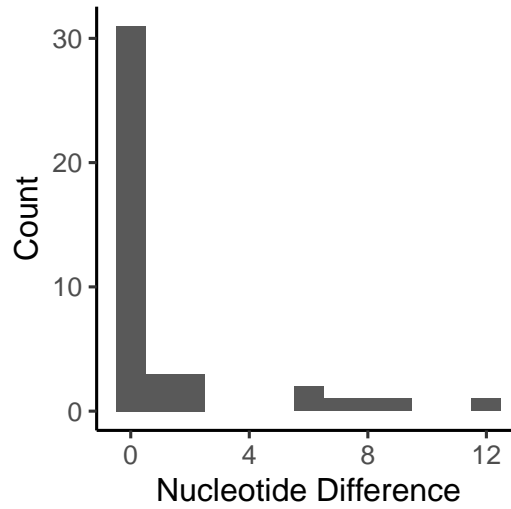
IGHV3-52*01

2 sequences assigned
No exact matches.



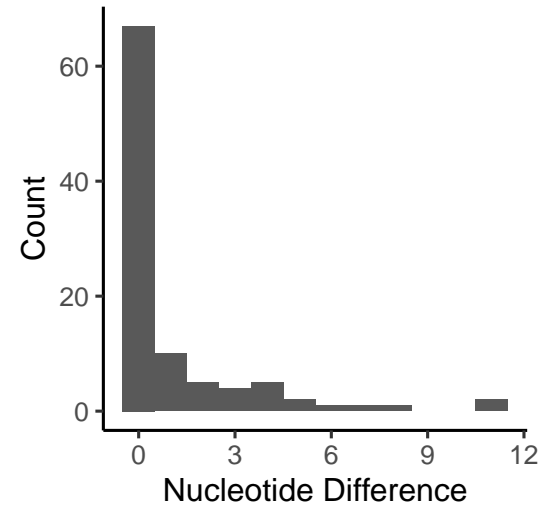
IGHV3-64*01

43 sequences assigned
31 (72.1%) exact matches, in which:
29 unique CDR3
4 unique J



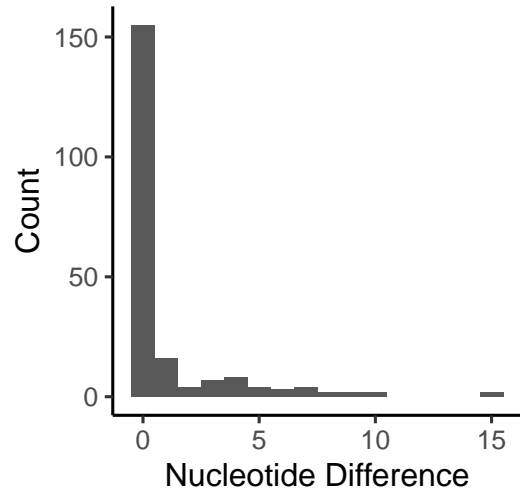
IGHV3-73*01

103 sequences assigned
67 (65%) exact matches, in which:
61 unique CDR3
6 unique J



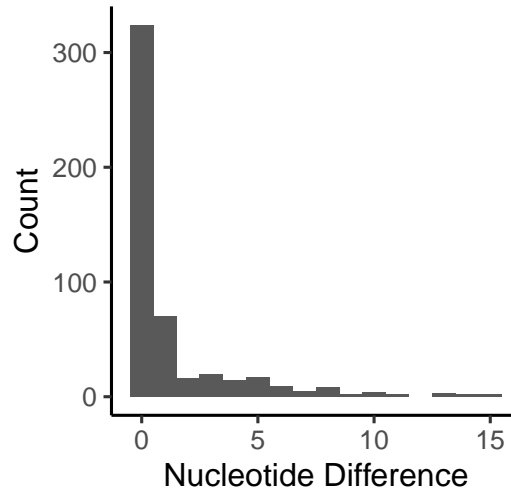
IGHV3-53*01

209 sequences assigned
155 (74.2%) exact matches, in which:
143 unique CDR3
6 unique J



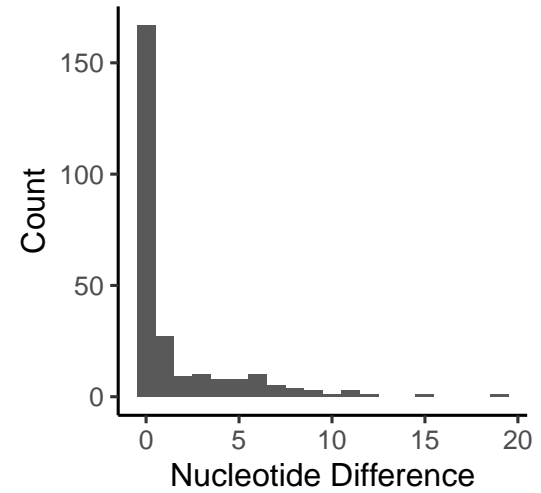
IGHV3-66*01

498 sequences assigned
324 (65.1%) exact matches, in which:
301 unique CDR3
6 unique J



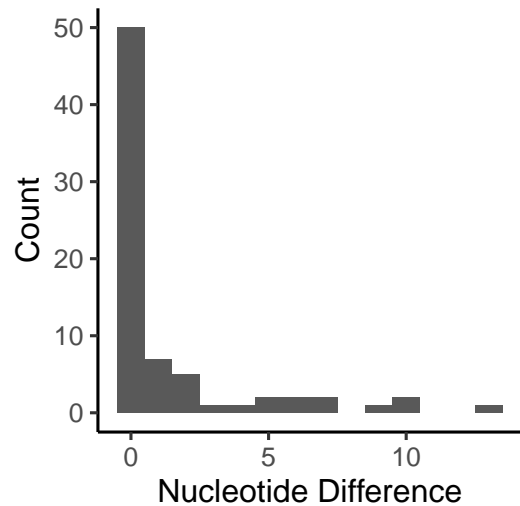
IGHV3-74*01

259 sequences assigned
167 (64.5%) exact matches, in which:
161 unique CDR3
6 unique J



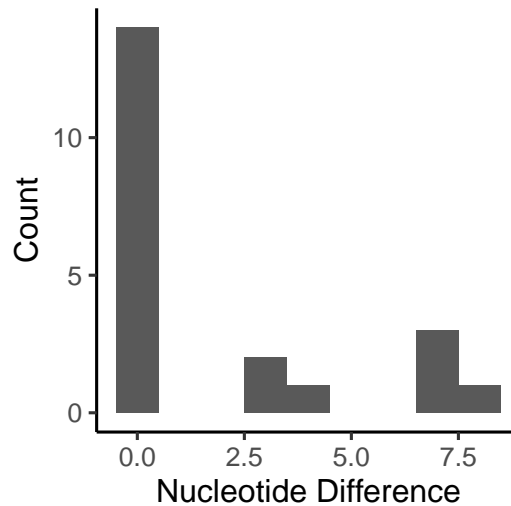
IGHV3-53*04

74 sequences assigned
50 (67.6%) exact matches, in which:
48 unique CDR3
6 unique J



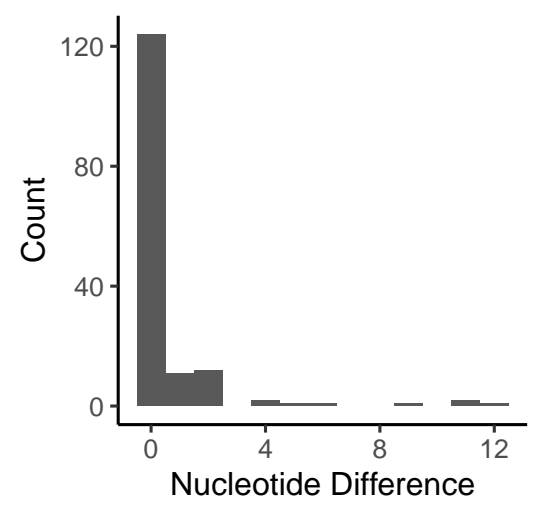
IGHV3-72*01

21 sequences assigned
14 (66.7%) exact matches, in which:
13 unique CDR3
4 unique J



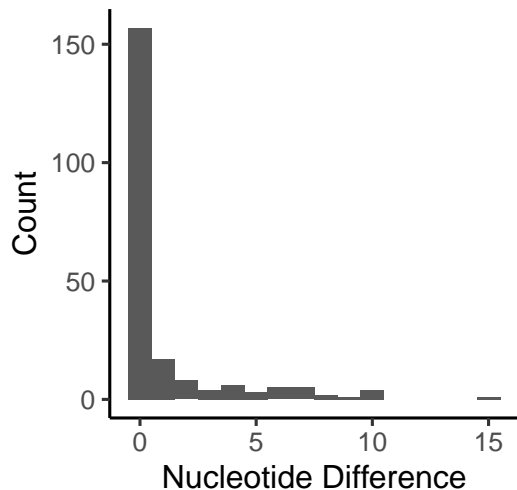
IGHV3-64D*09

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



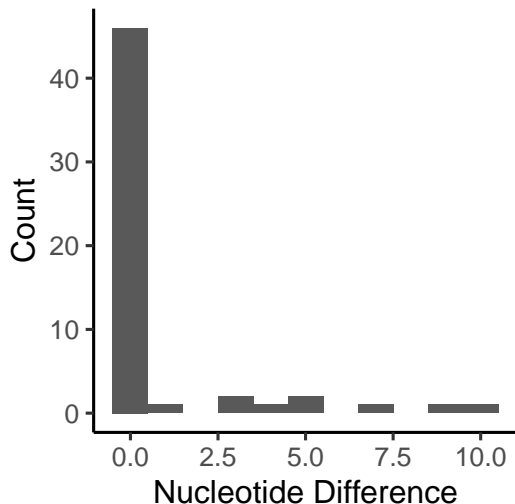
IGHV4-4*02

213 sequences assigned
157 (73.7%) exact matches, in which:
151 unique CDR3
5 unique J



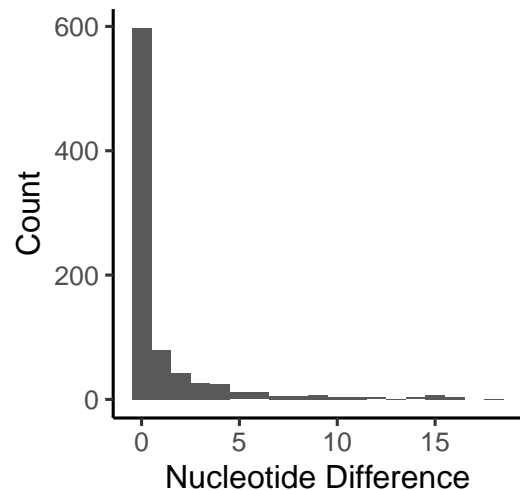
IGHV4-30-2*01

55 sequences assigned
46 (83.6%) exact matches, in which:
43 unique CDR3
6 unique J



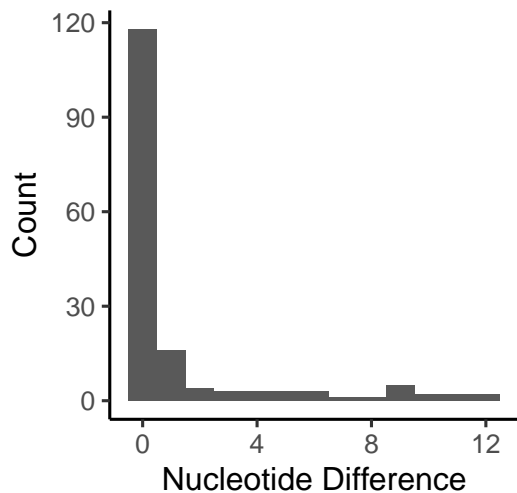
IGHV4-34*01

840 sequences assigned
598 (71.2%) exact matches, in which:
563 unique CDR3
6 unique J



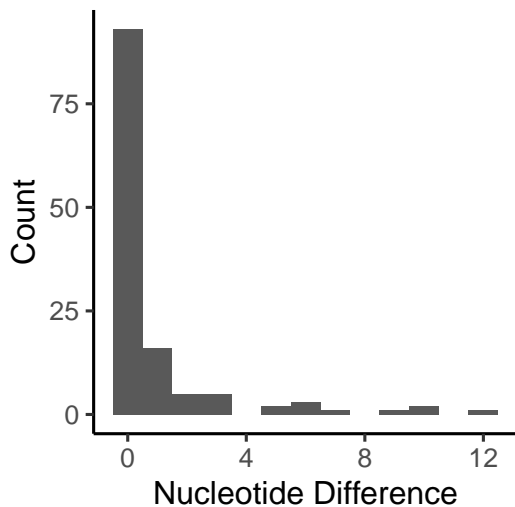
IGHV4-4*07

163 sequences assigned
118 (72.4%) exact matches, in which:
114 unique CDR3
6 unique J



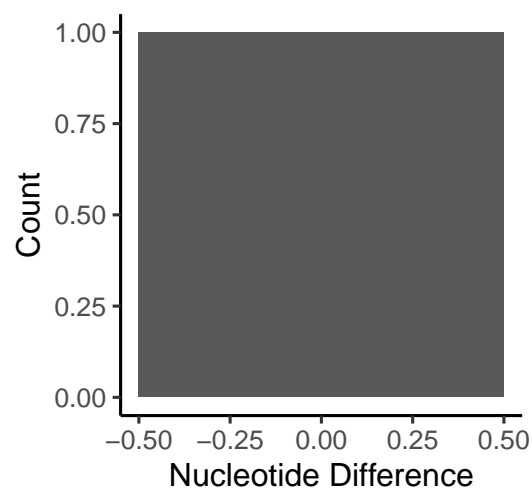
IGHV4-30-4*01

129 sequences assigned
93 (72.1%) exact matches, in which:
91 unique CDR3
6 unique J



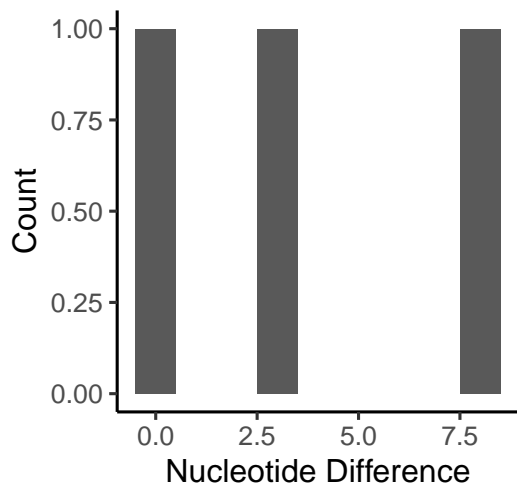
IGHV4-38-2*02

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



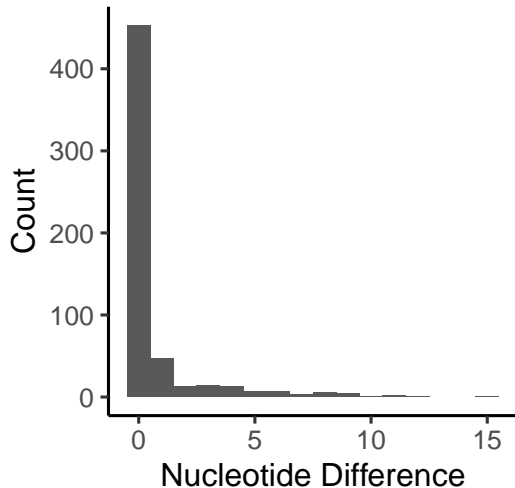
IGHV4-28*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



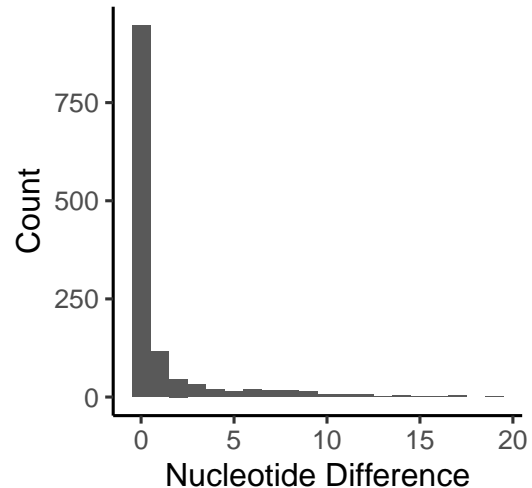
IGHV4-31*03

572 sequences assigned
453 (79.2%) exact matches, in which:
443 unique CDR3
6 unique J



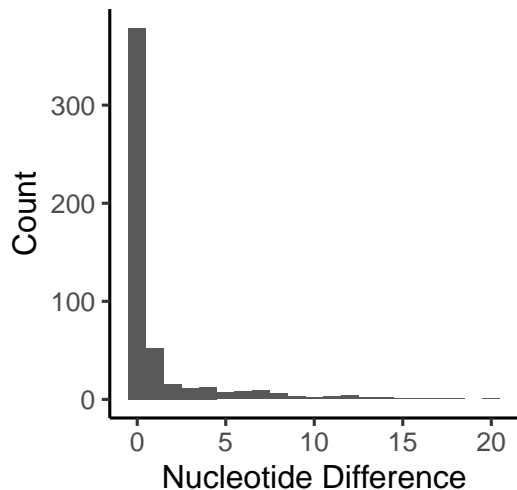
IGHV4-39*01

1275 sequences assigned
947 (74.3%) exact matches, in which:
900 unique CDR3
6 unique J



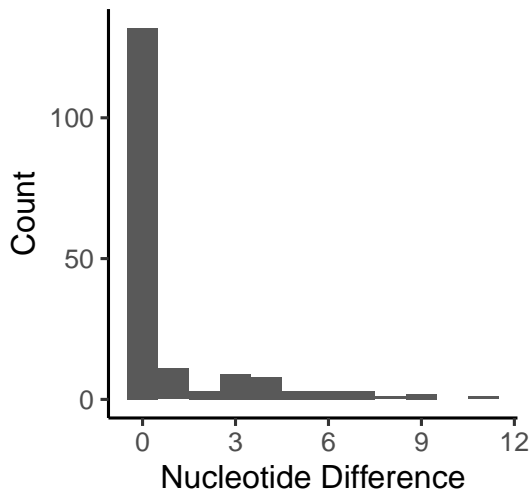
IGHV4–59*01

525 sequences assigned
379 (72.2%) exact matches, in which:
371 unique CDR3
6 unique J



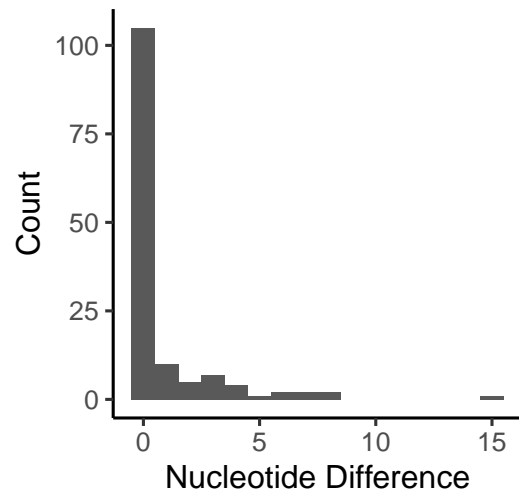
IGHV5–10–1*03

176 sequences assigned
132 (75%) exact matches, in which:
125 unique CDR3
6 unique J



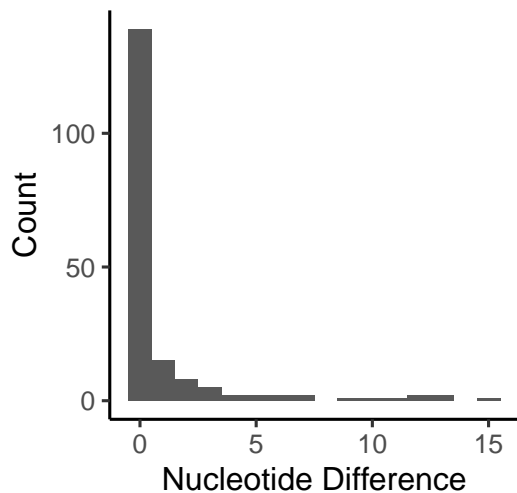
IGHV6–1*01

139 sequences assigned
105 (75.5%) exact matches, in which:
99 unique CDR3
5 unique J



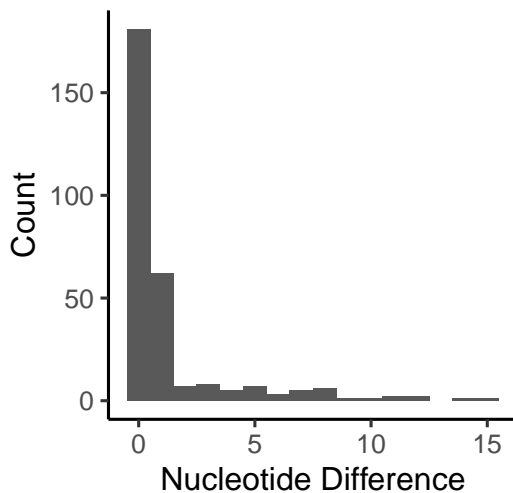
IGHV4–59*08

184 sequences assigned
139 (75.5%) exact matches, in which:
136 unique CDR3
6 unique J



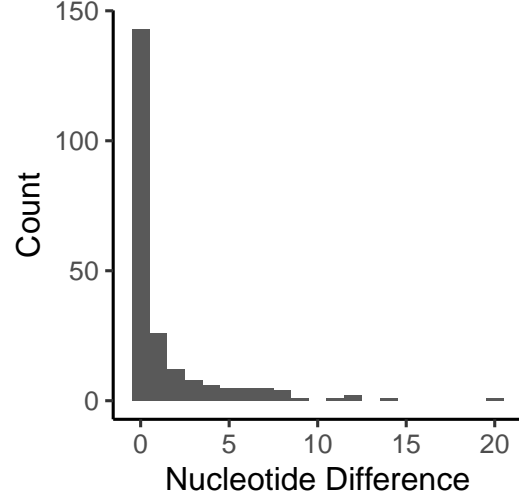
IGHV5–51*01

292 sequences assigned
181 (62%) exact matches, in which:
173 unique CDR3
5 unique J



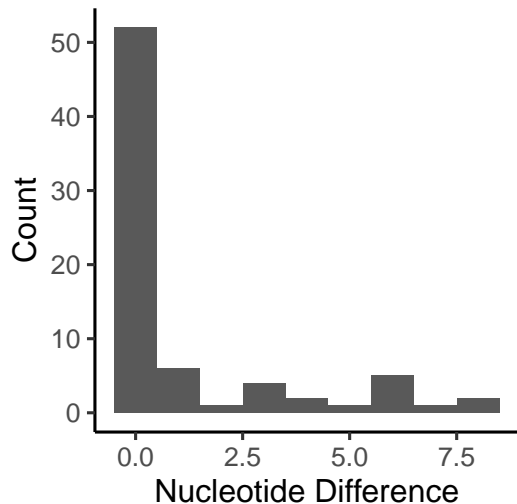
IGHV7–4–1*02

220 sequences assigned
143 (65%) exact matches, in which:
140 unique CDR3
5 unique J



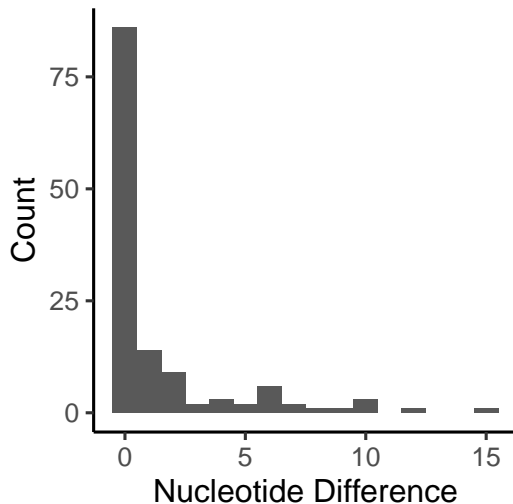
IGHV4–61*01

74 sequences assigned
52 (70.3%) exact matches, in which:
52 unique CDR3
5 unique J



IGHV5–51*03

131 sequences assigned
86 (65.6%) exact matches, in which:
84 unique CDR3
6 unique J





Warning – no inferred sequences found.