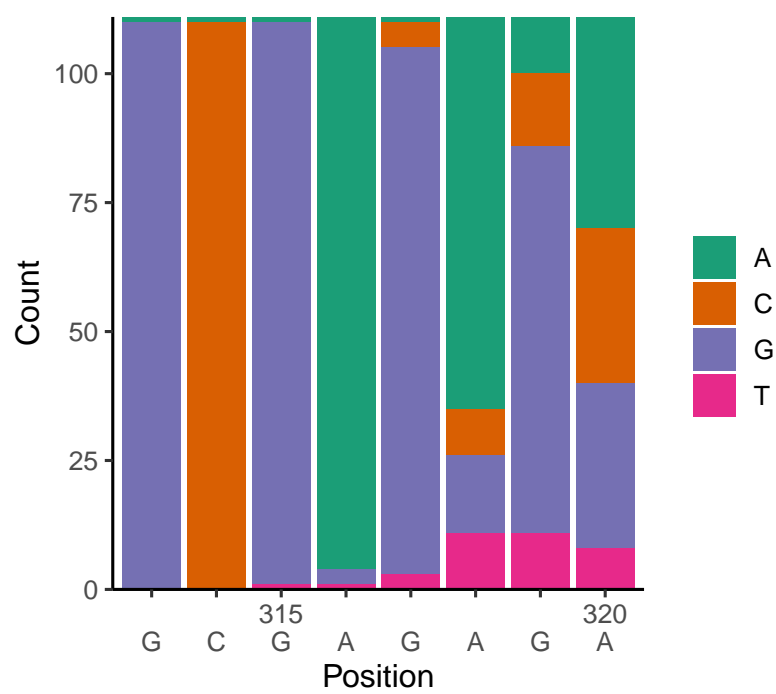
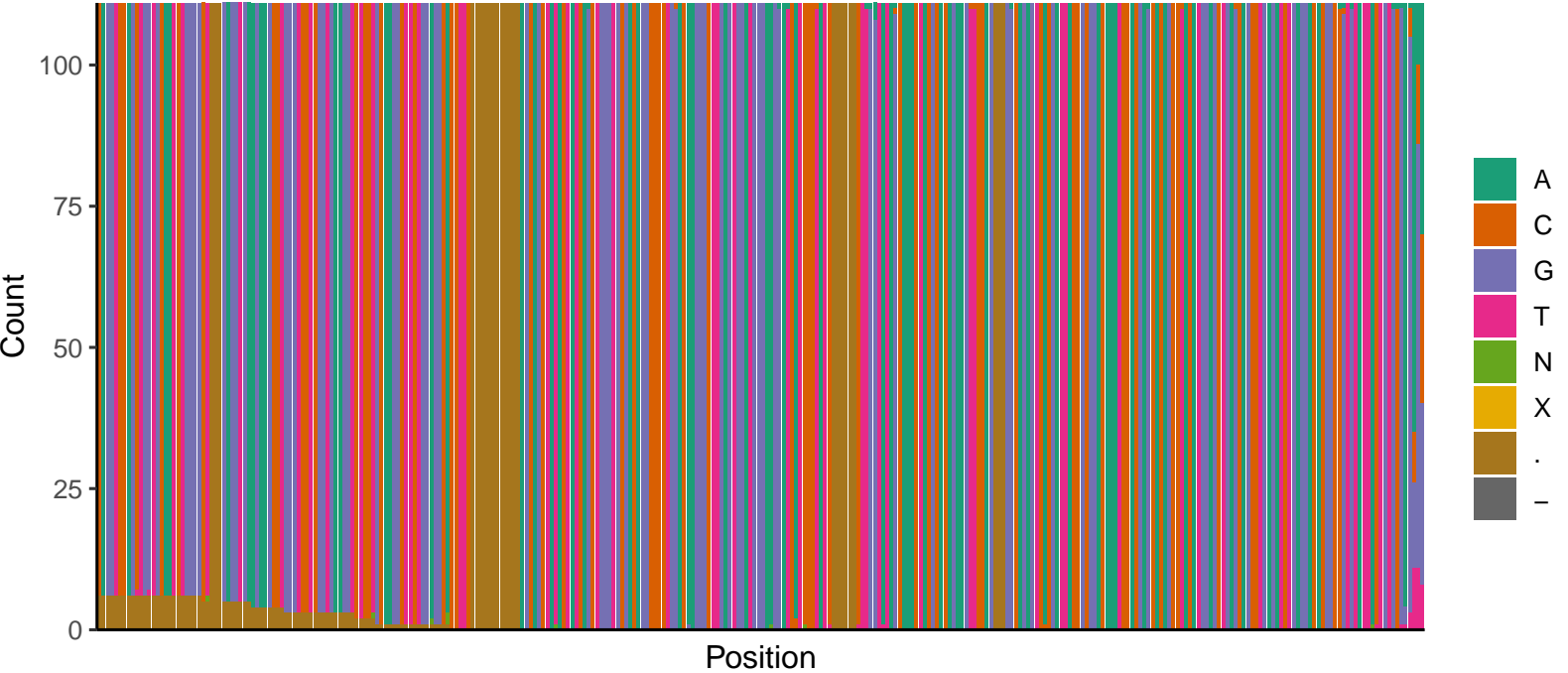


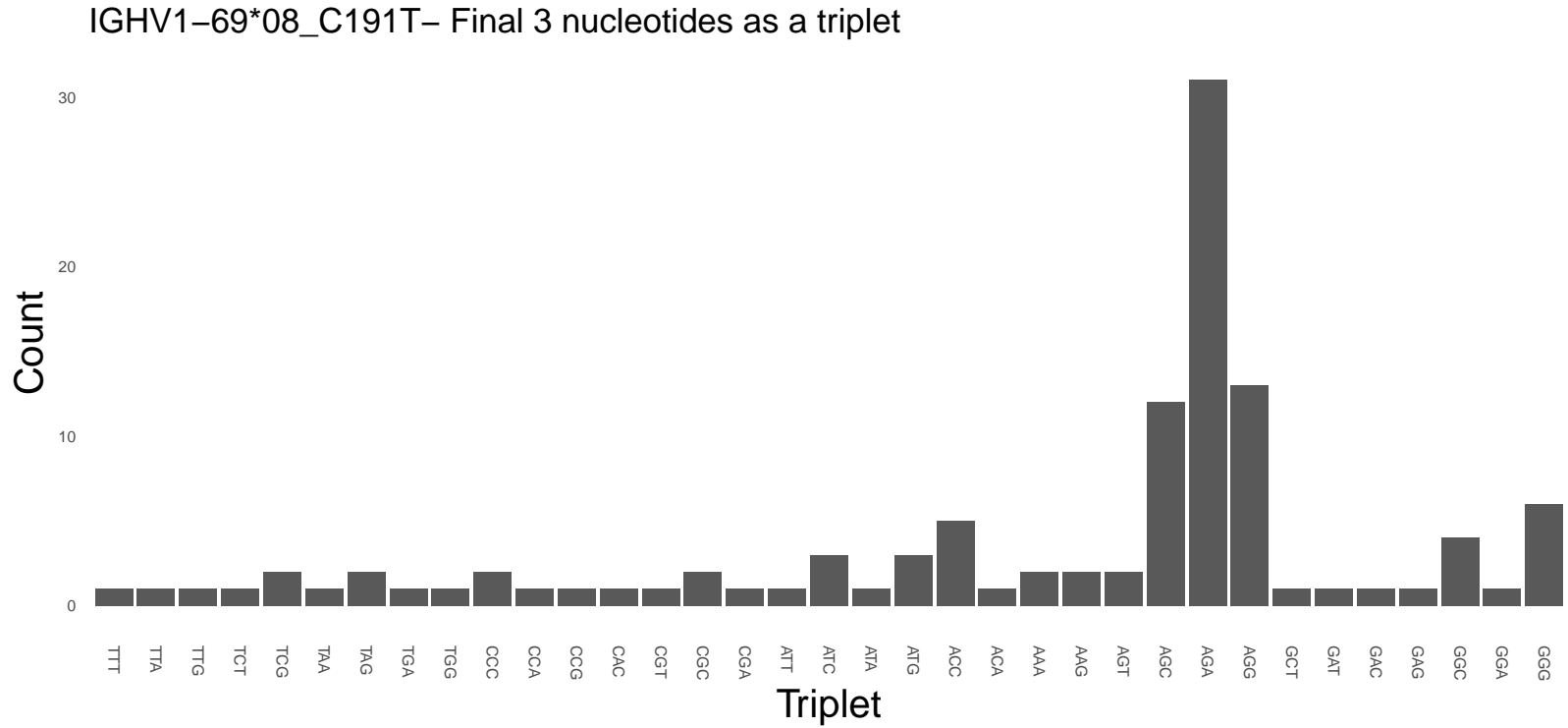
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

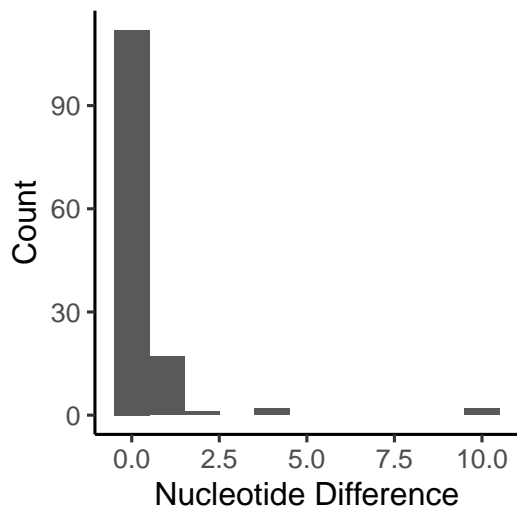


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



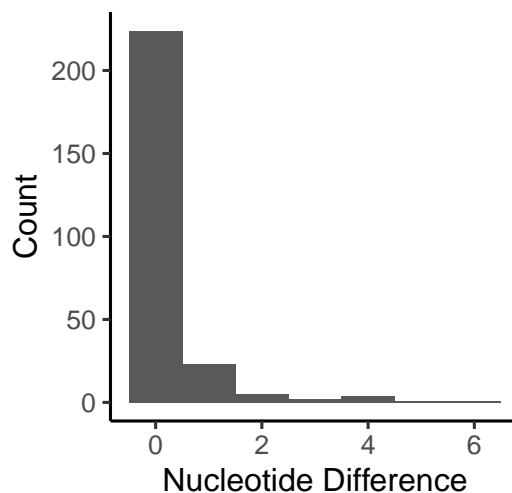
IGHV1-2*04

134 sequences assigned
112 (83.6%) exact matches, in which:
109 unique CDR3
5 unique J



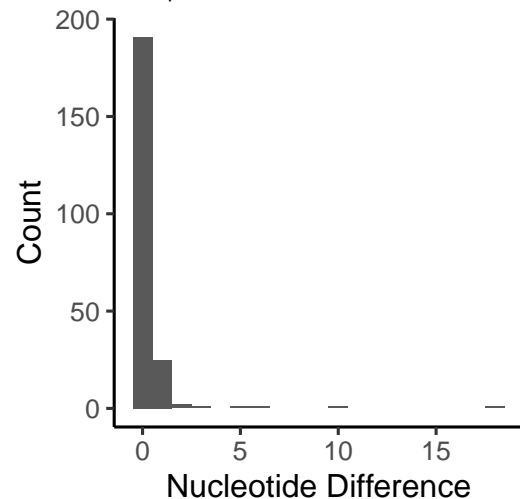
IGHV1-8*01

260 sequences assigned
224 (86.2%) exact matches, in which:
219 unique CDR3
6 unique J



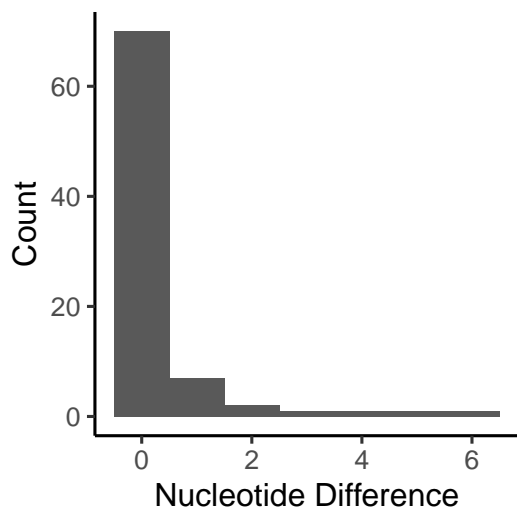
IGHV1-46*01

224 sequences assigned
191 (85.3%) exact matches, in which:
189 unique CDR3
6 unique J



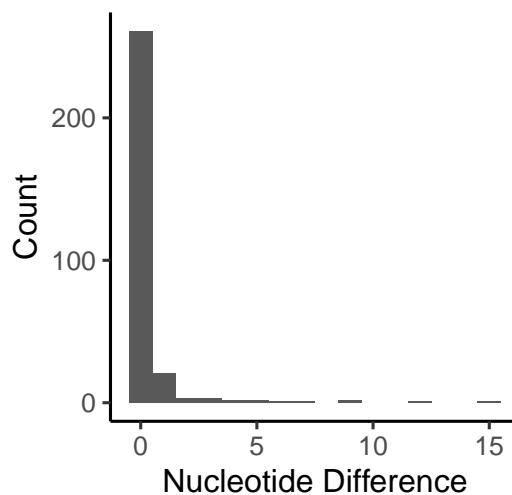
IGHV1-3*01

83 sequences assigned
70 (84.3%) exact matches, in which:
69 unique CDR3
5 unique J



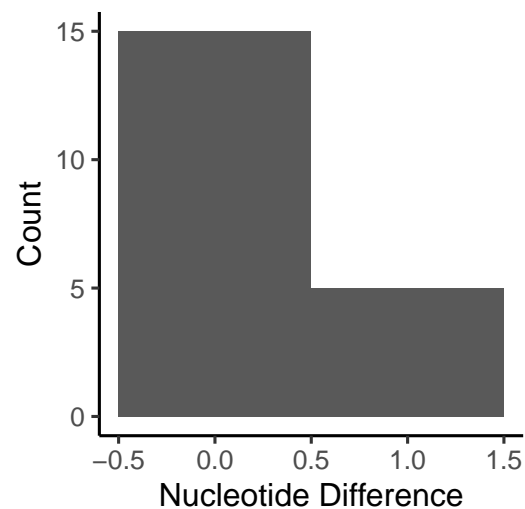
IGHV1-18*01

298 sequences assigned
261 (87.6%) exact matches, in which:
256 unique CDR3
6 unique J



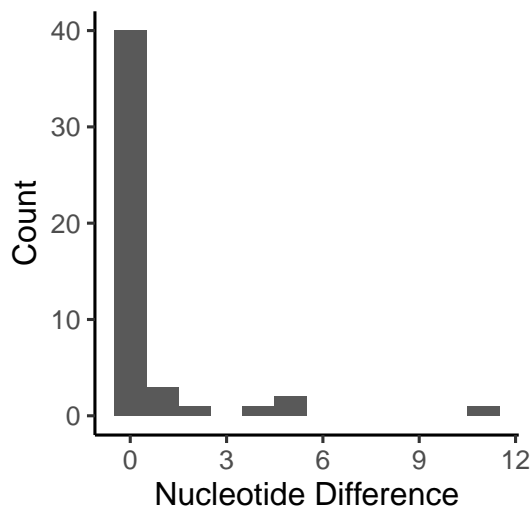
IGHV1-58*02

20 sequences assigned
15 (75%) exact matches, in which:
15 unique CDR3
5 unique J



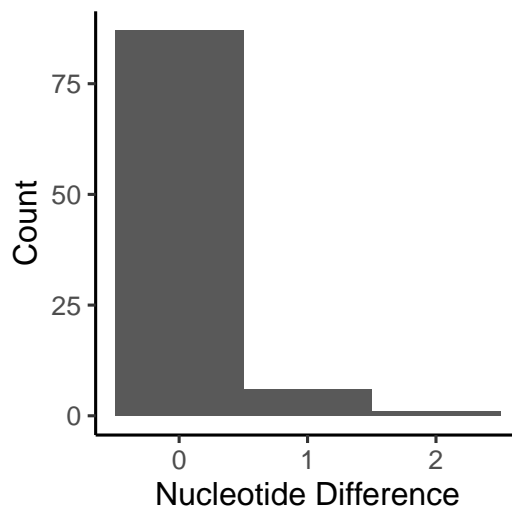
IGHV1-3*05

48 sequences assigned
40 (83.3%) exact matches, in which:
40 unique CDR3
6 unique J



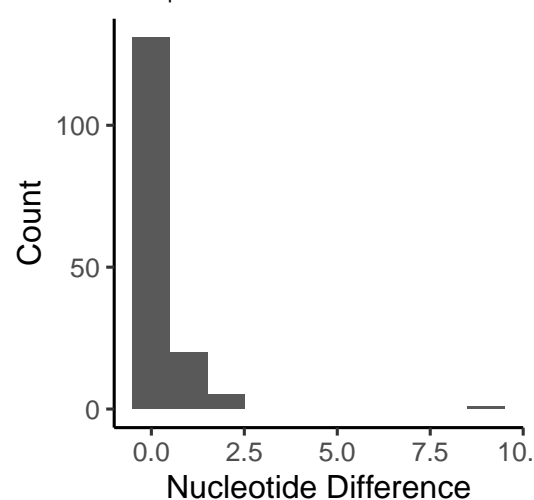
IGHV1-24*01

94 sequences assigned
87 (92.6%) exact matches, in which:
87 unique CDR3
5 unique J



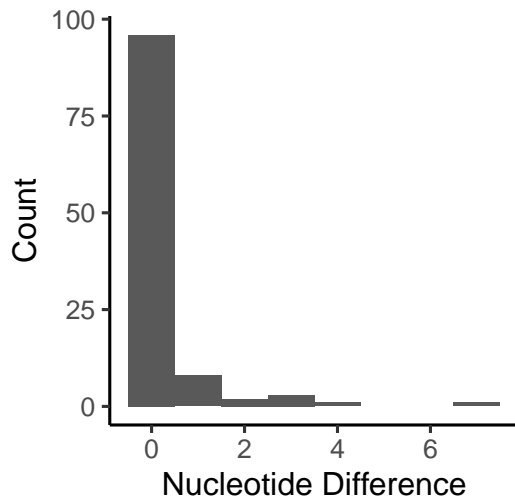
IGHV1-69*04

157 sequences assigned
131 (83.4%) exact matches, in which:
127 unique CDR3
6 unique J



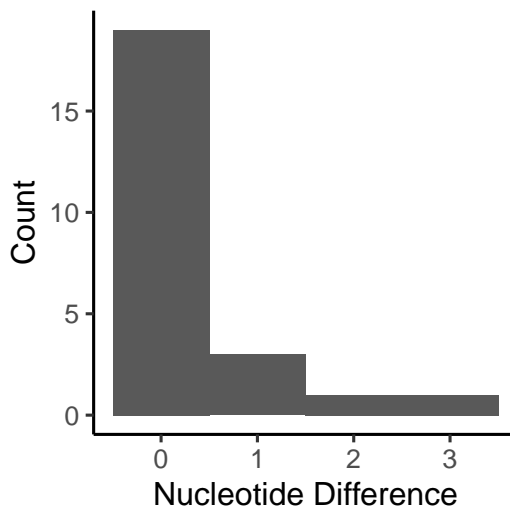
IGHV1–69*08_C191T

111 sequences assigned
96 (86.5%) exact matches, in which:
94 unique CDR3
6 unique J



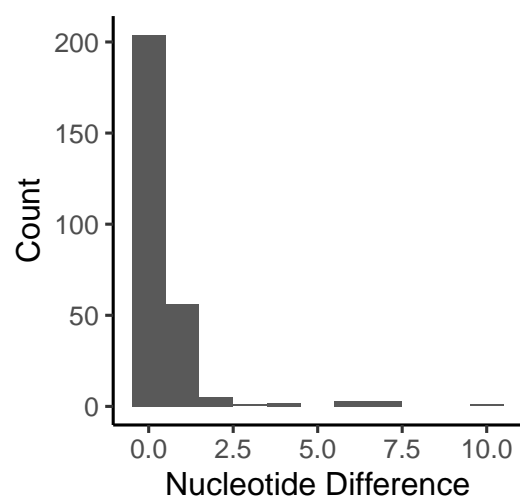
IGHV2–70*15

24 sequences assigned
19 (79.2%) exact matches, in which:
19 unique CDR3
6 unique J



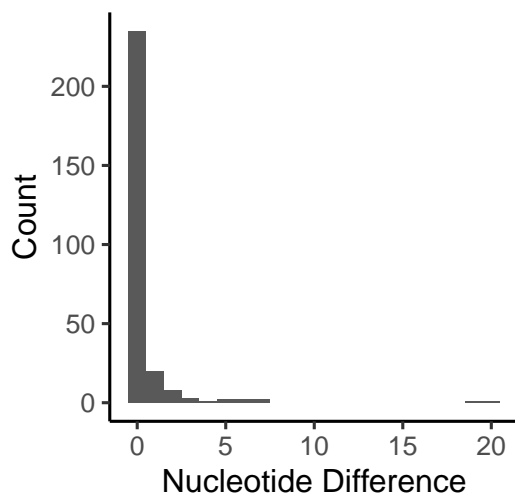
IGHV3–11*01

275 sequences assigned
204 (74.2%) exact matches, in which:
198 unique CDR3
6 unique J



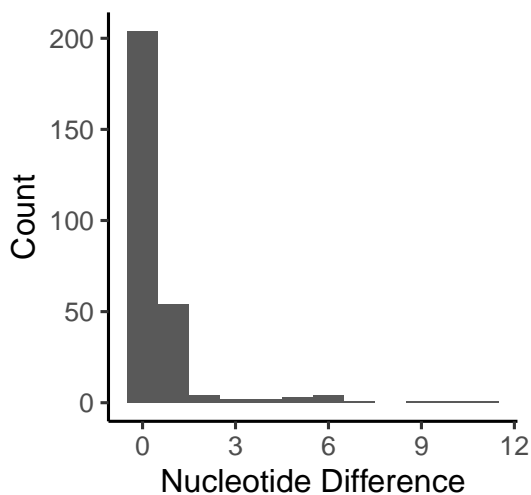
IGHV2–5*02

275 sequences assigned
235 (85.5%) exact matches, in which:
234 unique CDR3
6 unique J



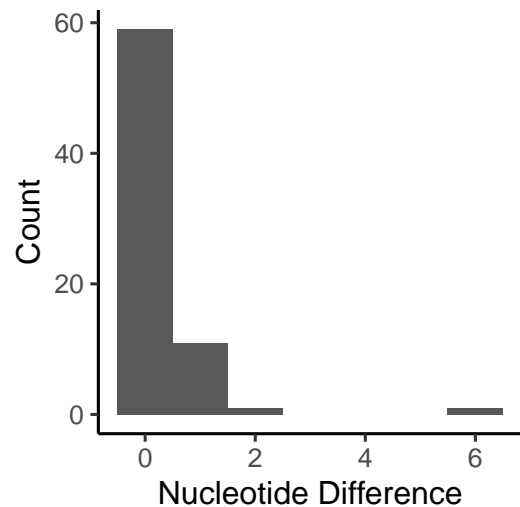
IGHV3–7*01

285 sequences assigned
204 (71.6%) exact matches, in which:
201 unique CDR3
6 unique J



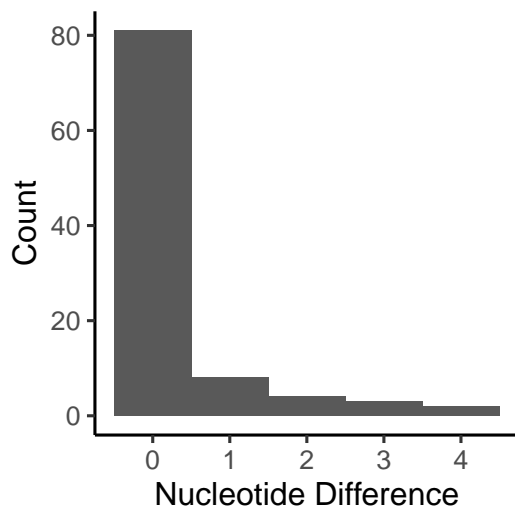
IGHV3–13*01

72 sequences assigned
59 (81.9%) exact matches, in which:
58 unique CDR3
5 unique J



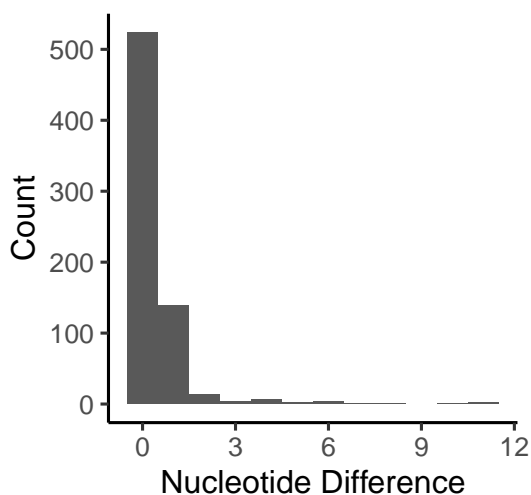
IGHV2–26*01

98 sequences assigned
81 (82.7%) exact matches, in which:
80 unique CDR3
5 unique J



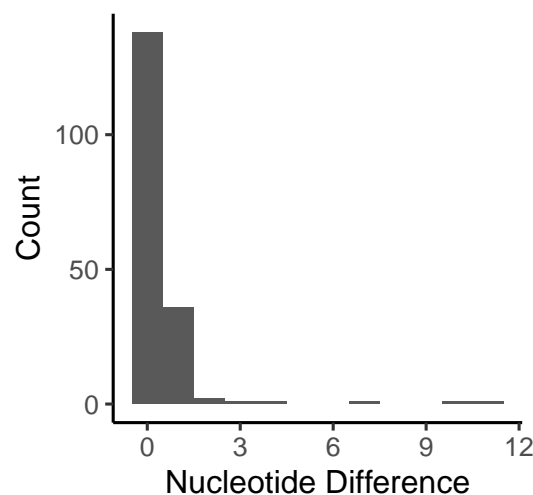
IGHV3–9*01

695 sequences assigned
524 (75.4%) exact matches, in which:
504 unique CDR3
6 unique J



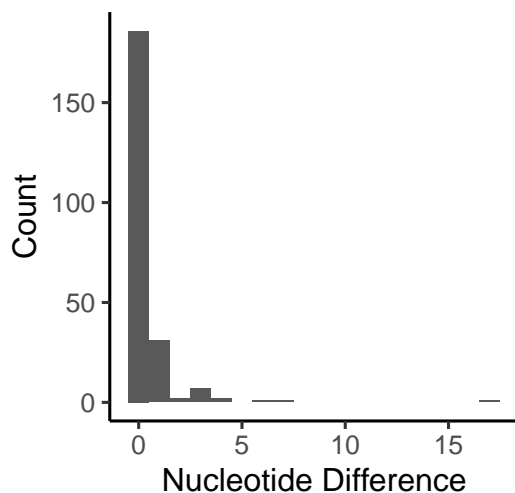
IGHV3–15*01

181 sequences assigned
138 (76.2%) exact matches, in which:
135 unique CDR3
5 unique J



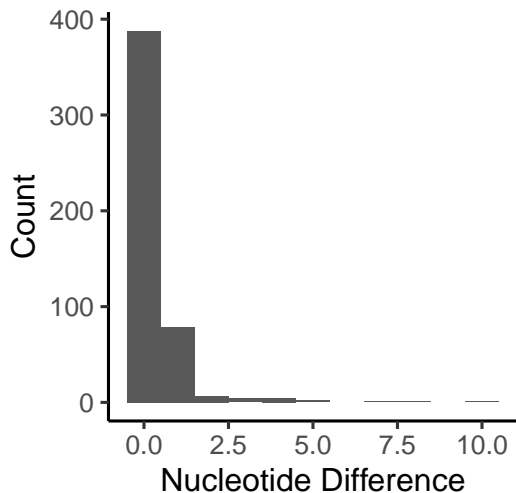
IGHV3–15*07

231 sequences assigned
186 (80.5%) exact matches, in which:
183 unique CDR3
6 unique J



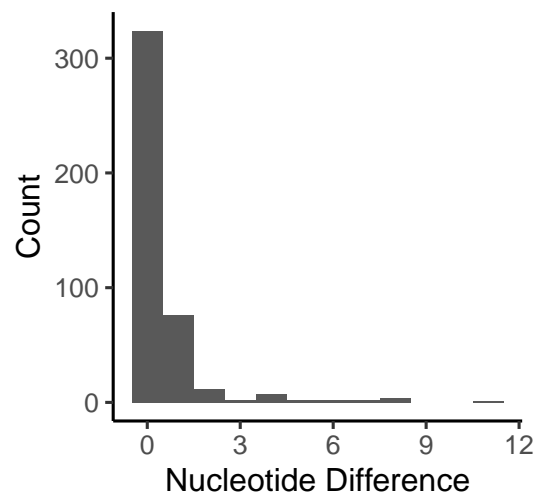
IGHV3–21*01

489 sequences assigned
388 (79.3%) exact matches, in which:
379 unique CDR3
6 unique J



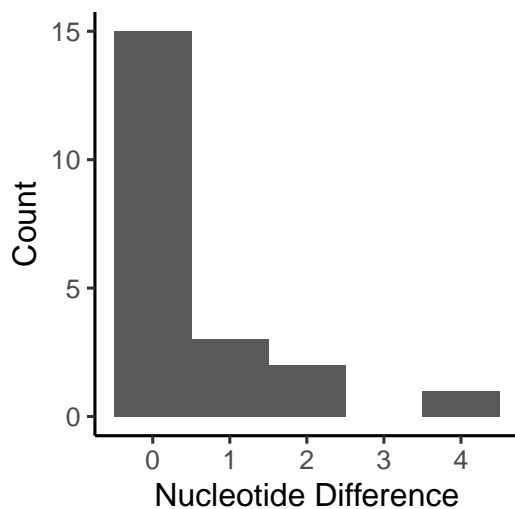
IGHV3–30*03

432 sequences assigned
324 (75%) exact matches, in which:
313 unique CDR3
6 unique J



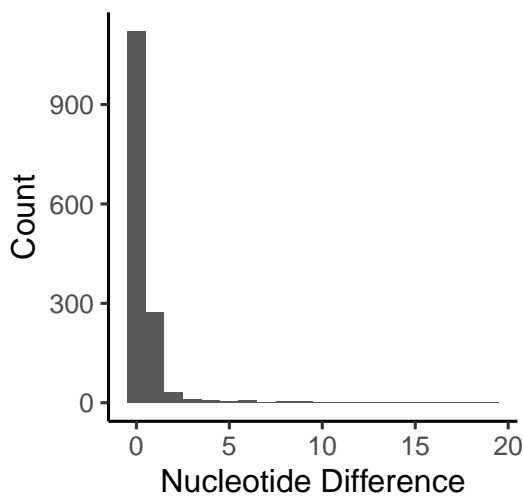
IGHV3–20*01

21 sequences assigned
15 (71.4%) exact matches, in which:
15 unique CDR3
5 unique J



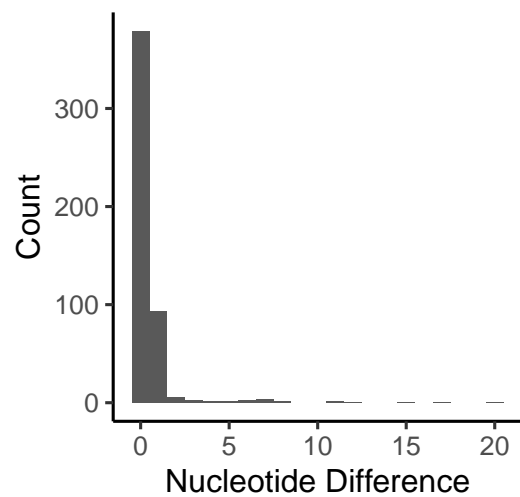
IGHV3–23*01

1488 sequences assigned
1122 (75.4%) exact matches, in which:
1075 unique CDR3
6 unique J



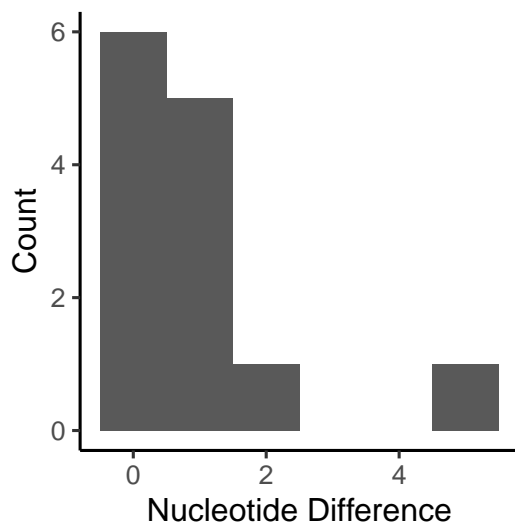
IGHV3–30*18

502 sequences assigned
379 (75.5%) exact matches, in which:
368 unique CDR3
6 unique J



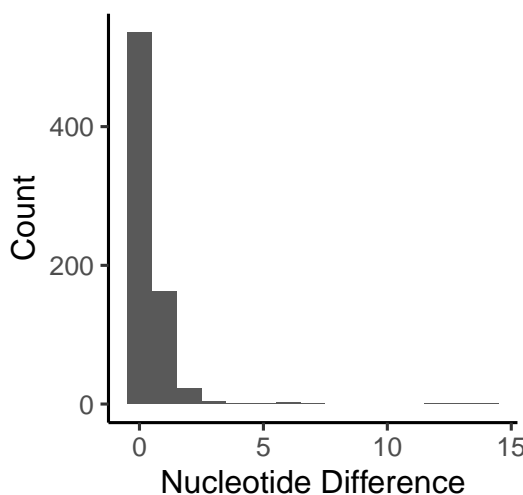
IGHV3–20*04

13 sequences assigned
6 (46.2%) exact matches, in which:
6 unique CDR3
3 unique J



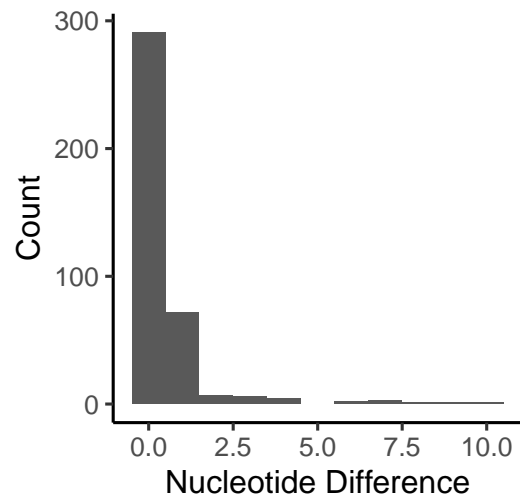
IGHV3–30–3*01

736 sequences assigned
536 (72.8%) exact matches, in which:
521 unique CDR3
6 unique J



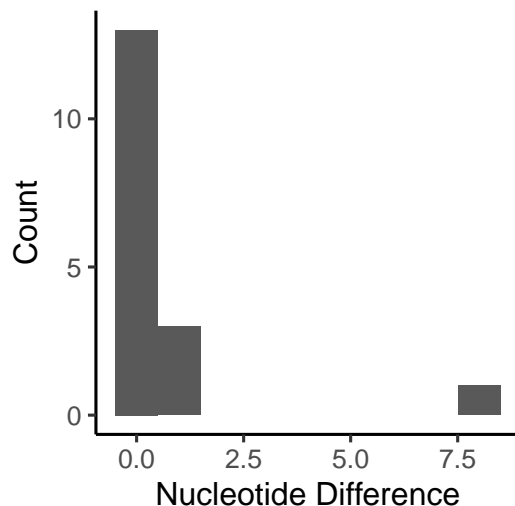
IGHV3–33*01

388 sequences assigned
291 (75%) exact matches, in which:
281 unique CDR3
6 unique J



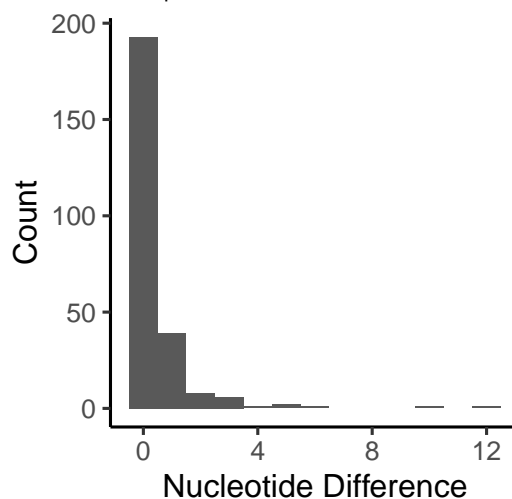
IGHV3-43*01

17 sequences assigned
13 (76.5%) exact matches, in which:
13 unique CDR3
3 unique J



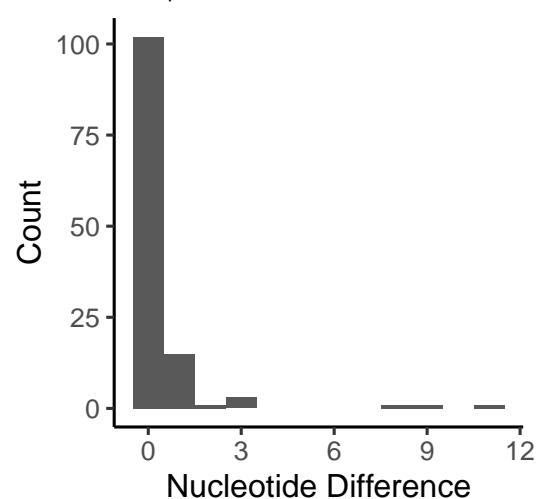
IGHV3-48*03

253 sequences assigned
193 (76.3%) exact matches, in which:
189 unique CDR3
6 unique J



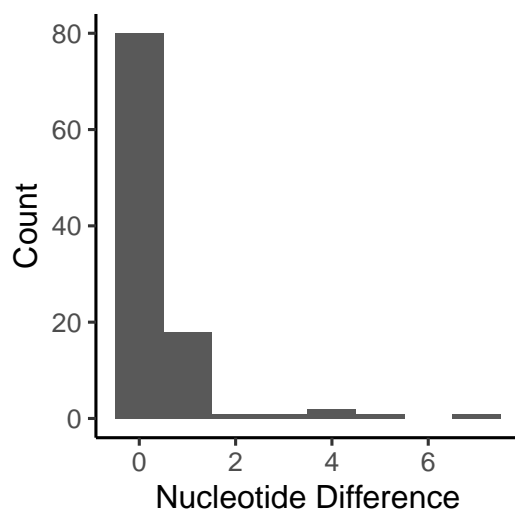
IGHV3-53*01

124 sequences assigned
102 (82.3%) exact matches, in which:
98 unique CDR3
6 unique J



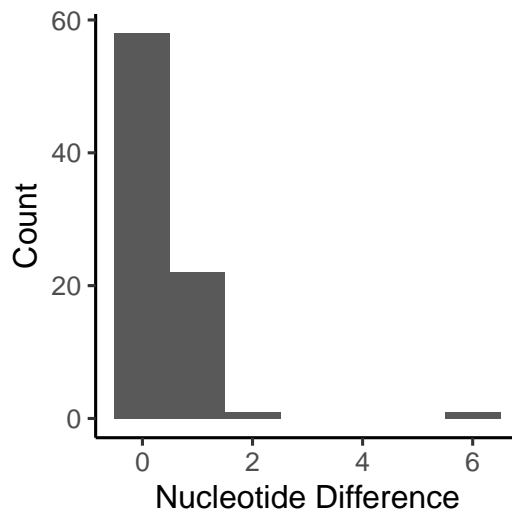
IGHV3-43*02

104 sequences assigned
80 (76.9%) exact matches, in which:
74 unique CDR3
6 unique J



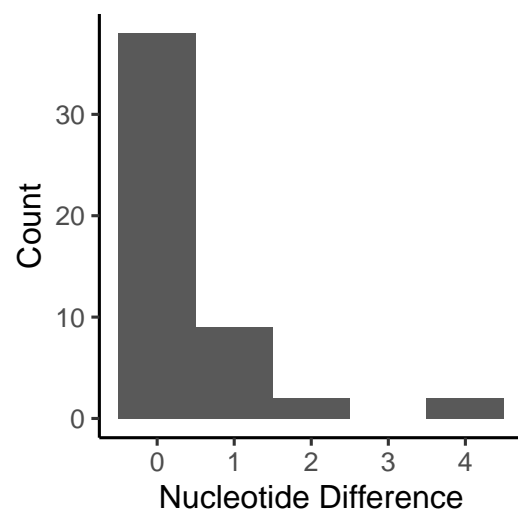
IGHV3-49*04

82 sequences assigned
58 (70.7%) exact matches, in which:
58 unique CDR3
6 unique J



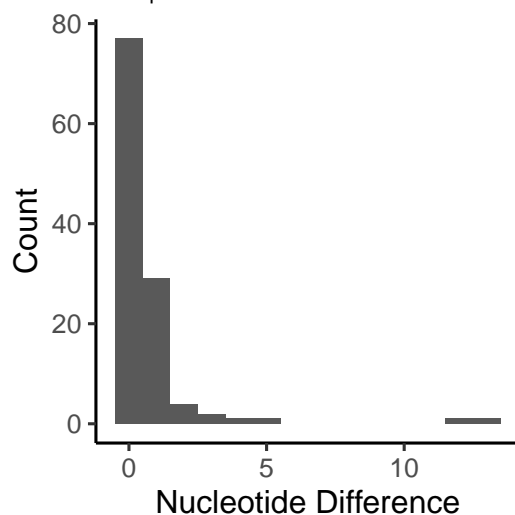
IGHV3-53*04

51 sequences assigned
38 (74.5%) exact matches, in which:
38 unique CDR3
5 unique J



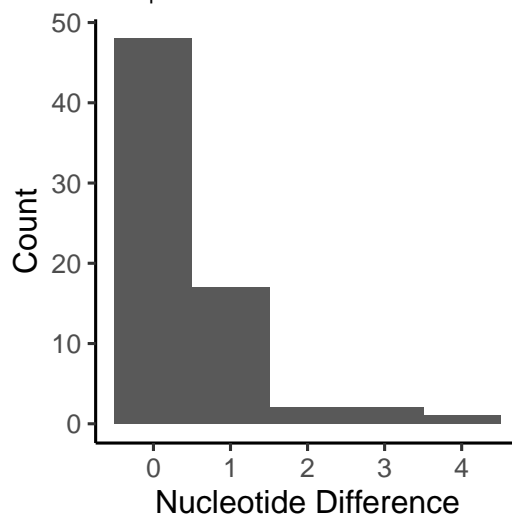
IGHV3-48*02

117 sequences assigned
77 (65.8%) exact matches, in which:
77 unique CDR3
6 unique J



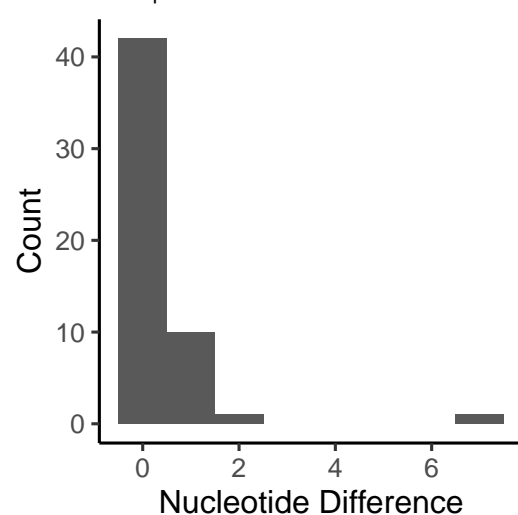
IGHV3-49*05

70 sequences assigned
48 (68.6%) exact matches, in which:
46 unique CDR3
4 unique J



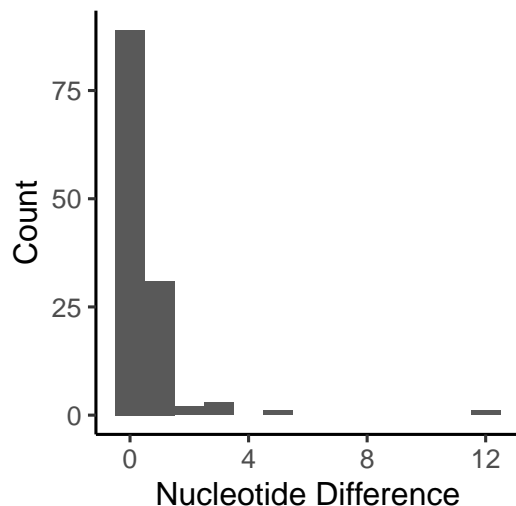
IGHV3-64*01

54 sequences assigned
42 (77.8%) exact matches, in which:
39 unique CDR3
4 unique J



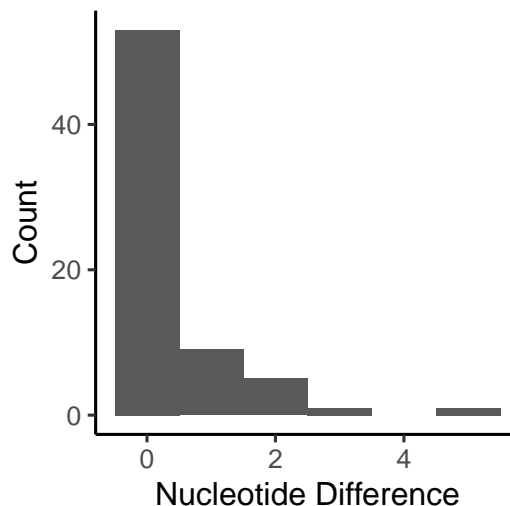
IGHV3-66*01

127 sequences assigned
89 (70.1%) exact matches, in which:
88 unique CDR3
6 unique J



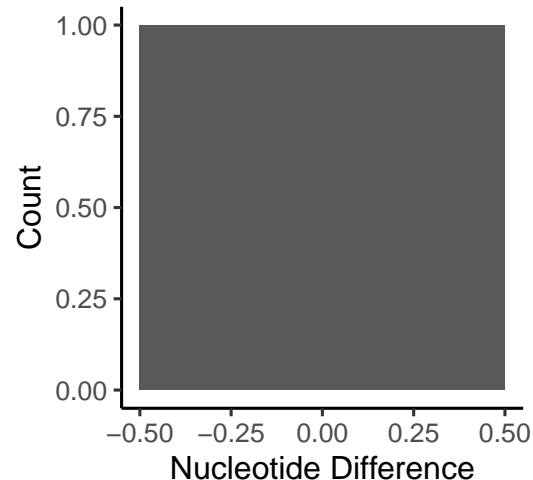
IGHV3-73*01

69 sequences assigned
53 (76.8%) exact matches, in which:
52 unique CDR3
5 unique J



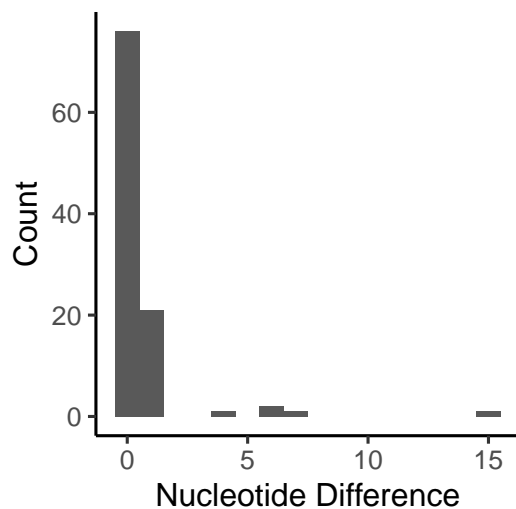
IGHV4-28*01

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



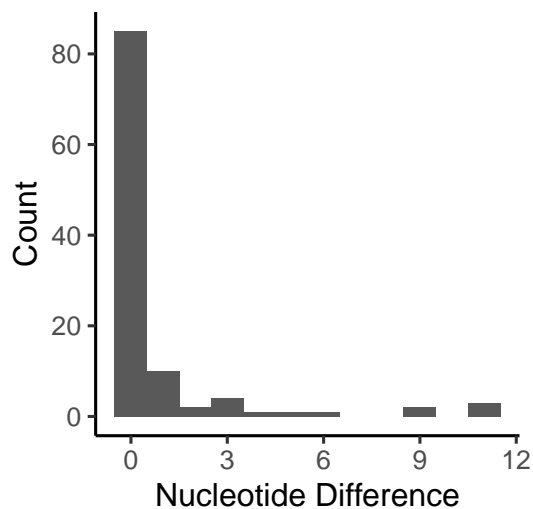
IGHV3-66*02

102 sequences assigned
76 (74.5%) exact matches, in which:
76 unique CDR3
5 unique J



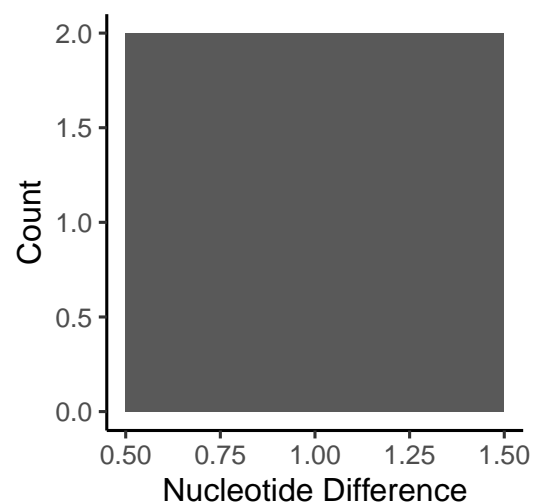
IGHV3-74*01

109 sequences assigned
85 (78%) exact matches, in which:
81 unique CDR3
6 unique J



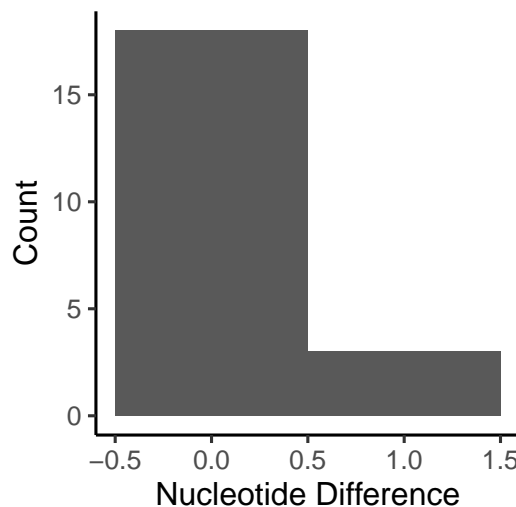
IGHV4-28*04

2 sequences assigned
No exact matches.



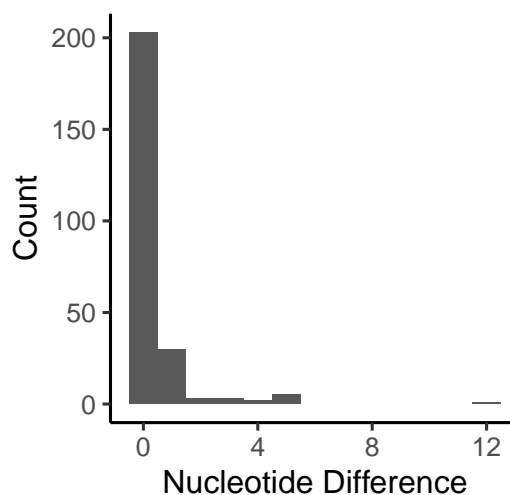
IGHV3-72*01

21 sequences assigned
18 (85.7%) exact matches, in which:
17 unique CDR3
5 unique J



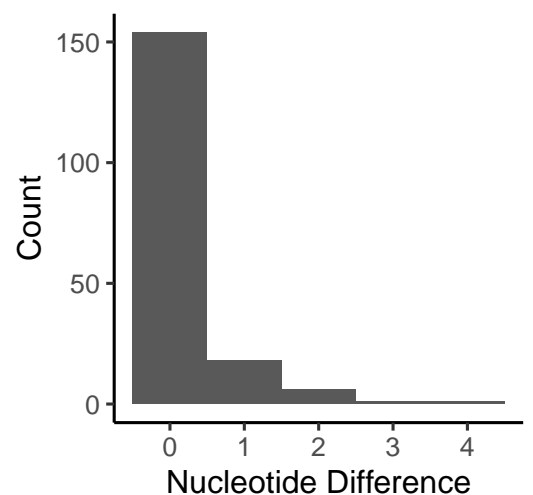
IGHV4-4*02

247 sequences assigned
203 (82.2%) exact matches, in which:
201 unique CDR3
6 unique J



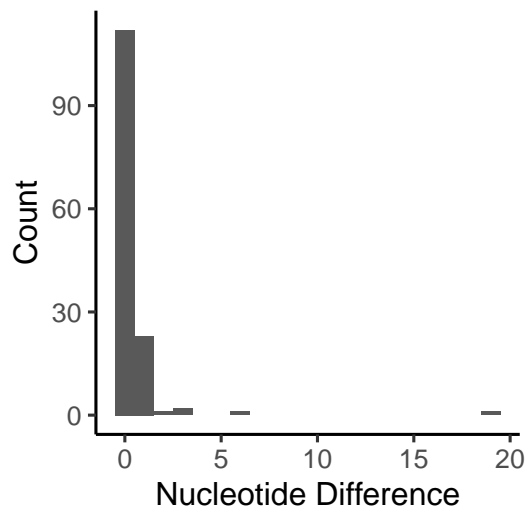
IGHV4-30-4*01

180 sequences assigned
154 (85.6%) exact matches, in which:
149 unique CDR3
6 unique J



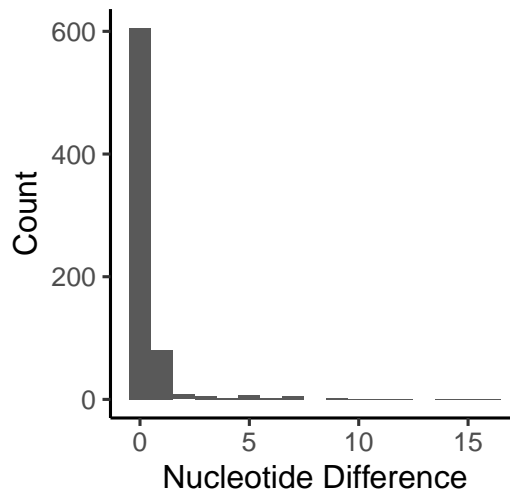
IGHV4-30-2*01

140 sequences assigned
112 (80%) exact matches, in which:
109 unique CDR3
6 unique J



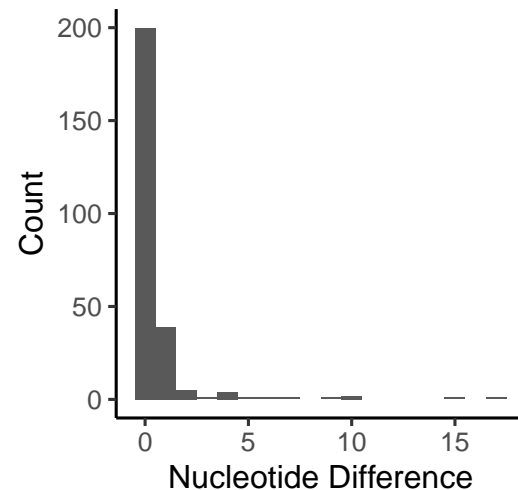
IGHV4-39*01

726 sequences assigned
606 (83.5%) exact matches, in which:
583 unique CDR3
6 unique J



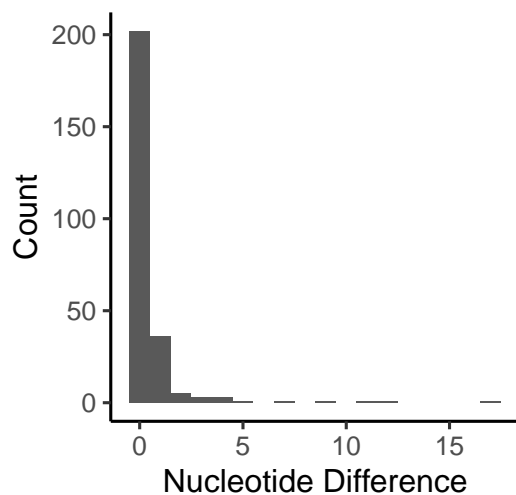
IGHV4-61*02

257 sequences assigned
200 (77.8%) exact matches, in which:
200 unique CDR3
6 unique J



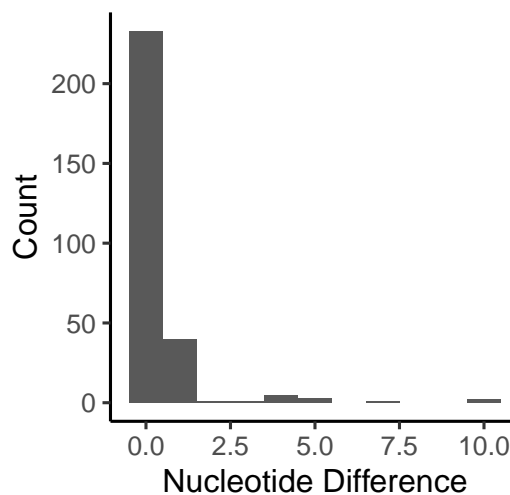
IGHV4-31*03

255 sequences assigned
202 (79.2%) exact matches, in which:
198 unique CDR3
6 unique J



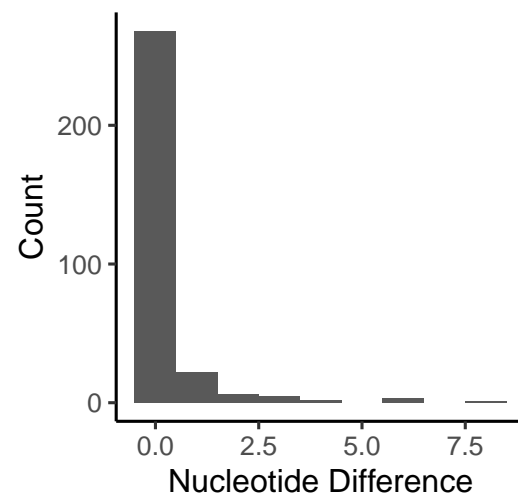
IGHV4-59*01

286 sequences assigned
233 (81.5%) exact matches, in which:
233 unique CDR3
6 unique J



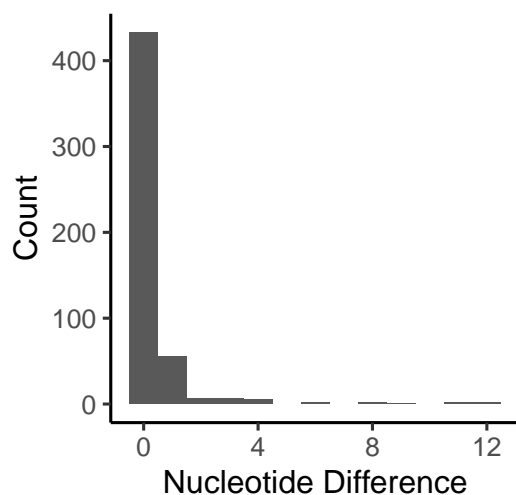
IGHV5-51*01

307 sequences assigned
268 (87.3%) exact matches, in which:
262 unique CDR3
6 unique J



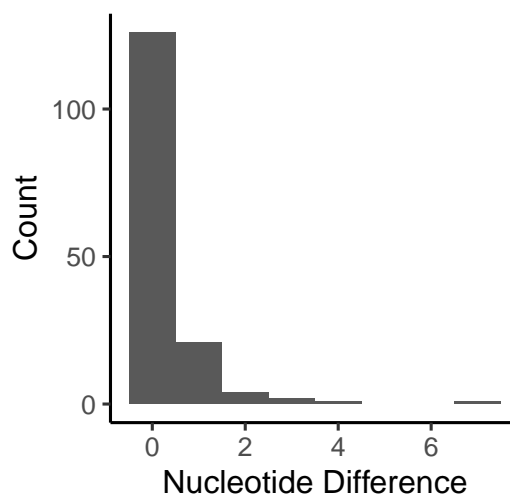
IGHV4-34*01

516 sequences assigned
433 (83.9%) exact matches, in which:
422 unique CDR3
6 unique J



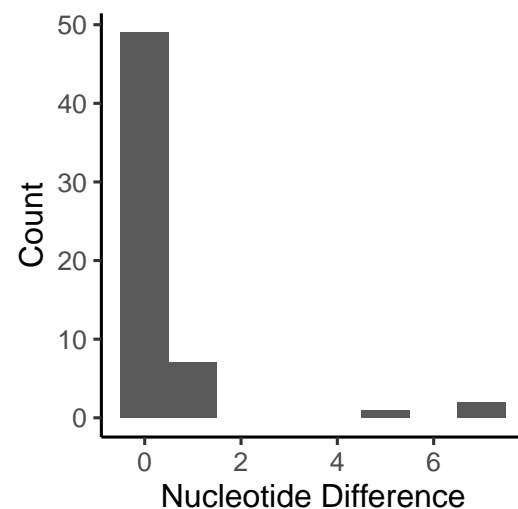
IGHV4-59*08

155 sequences assigned
126 (81.3%) exact matches, in which:
124 unique CDR3
6 unique J



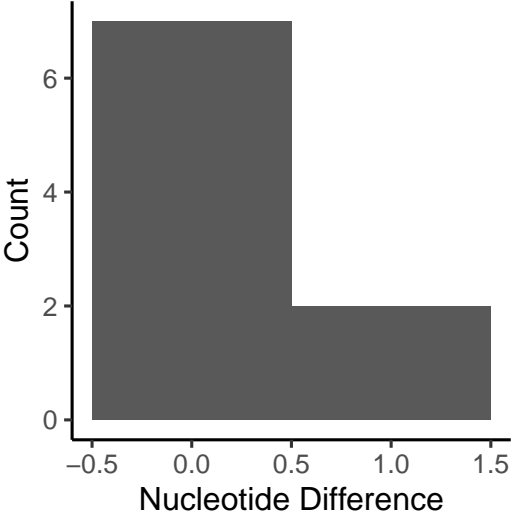
IGHV6-1*01

59 sequences assigned
49 (83.1%) exact matches, in which:
47 unique CDR3
5 unique J



IGHV7-4-1*01

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
3 unique J



IGHV1-69*08_C191T

