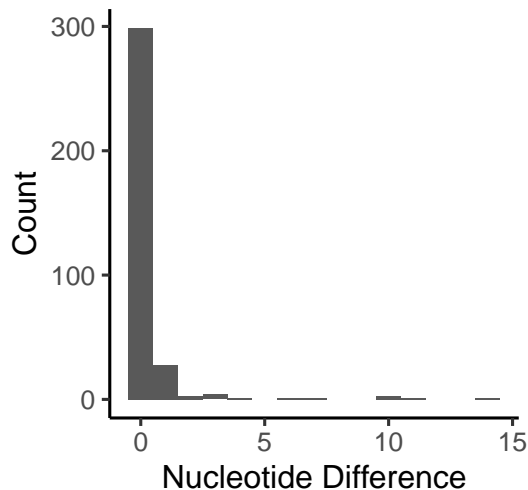


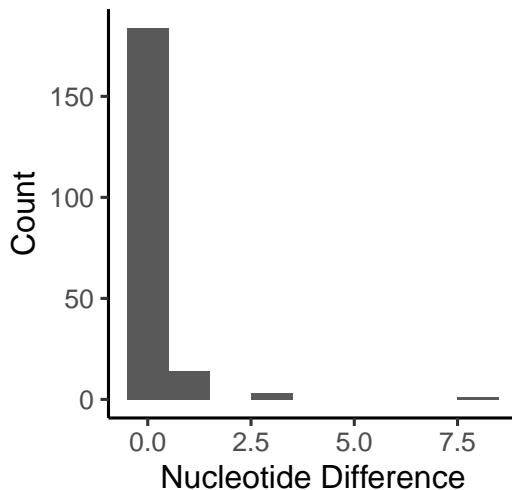
IGHV1-2*02

343 sequences assigned
299 (87.2%) exact matches, in which:
295 unique CDR3
6 unique J



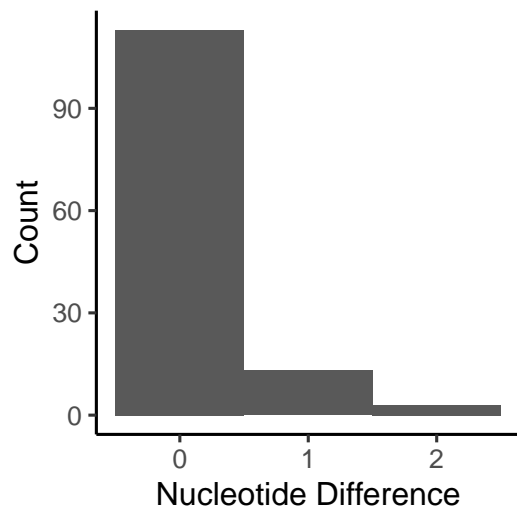
IGHV1-8*01

203 sequences assigned
184 (90.6%) exact matches, in which:
176 unique CDR3
5 unique J



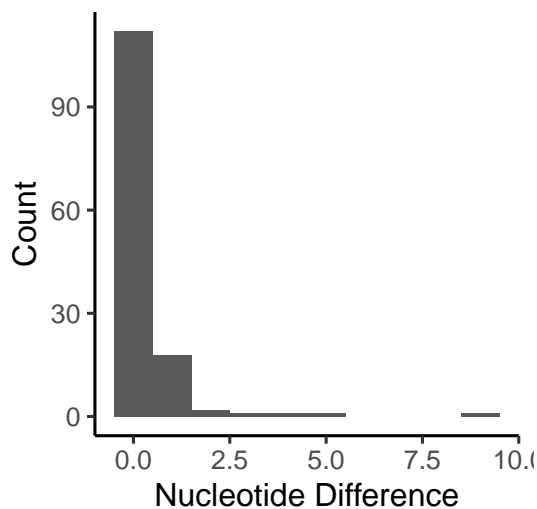
IGHV1-24*01

129 sequences assigned
113 (87.6%) exact matches, in which:
111 unique CDR3
5 unique J



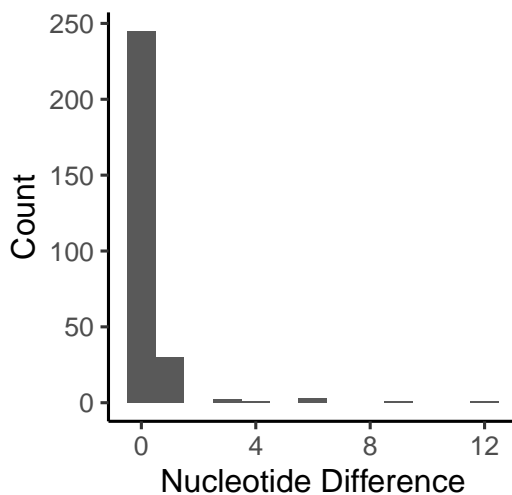
IGHV1-2*04

136 sequences assigned
112 (82.4%) exact matches, in which:
112 unique CDR3
6 unique J



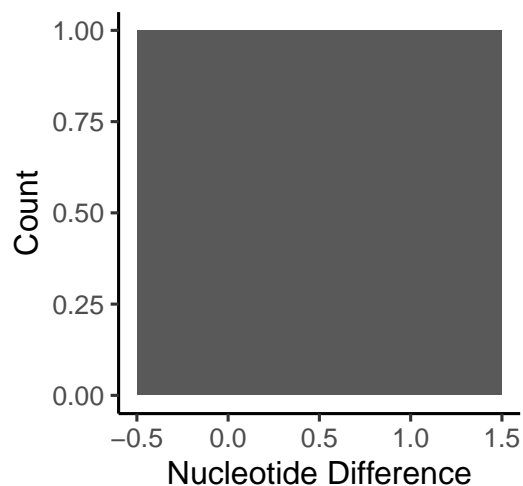
IGHV1-18*01

283 sequences assigned
245 (86.6%) exact matches, in which:
244 unique CDR3
6 unique J



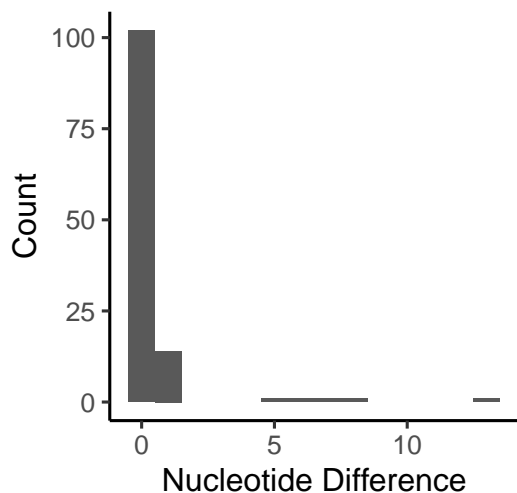
IGHV1-45*02

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



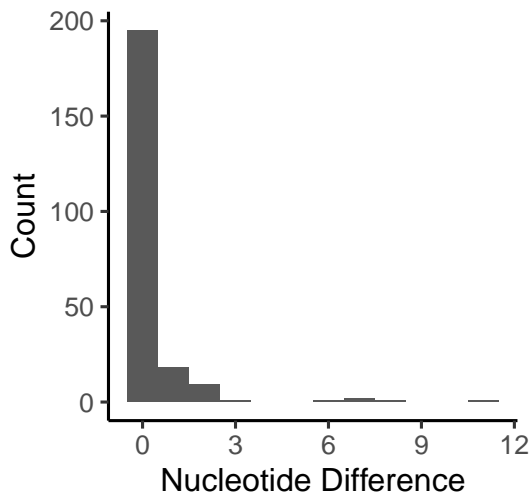
IGHV1-3*01

123 sequences assigned
102 (82.9%) exact matches, in which:
100 unique CDR3
6 unique J



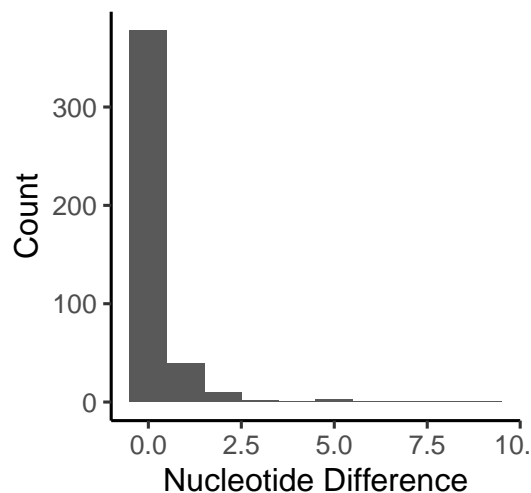
IGHV1-18*04

228 sequences assigned
195 (85.5%) exact matches, in which:
194 unique CDR3
6 unique J



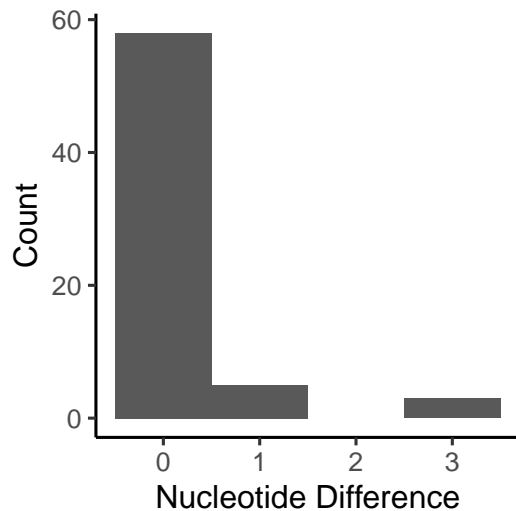
IGHV1-46*01

438 sequences assigned
378 (86.3%) exact matches, in which:
372 unique CDR3
6 unique J



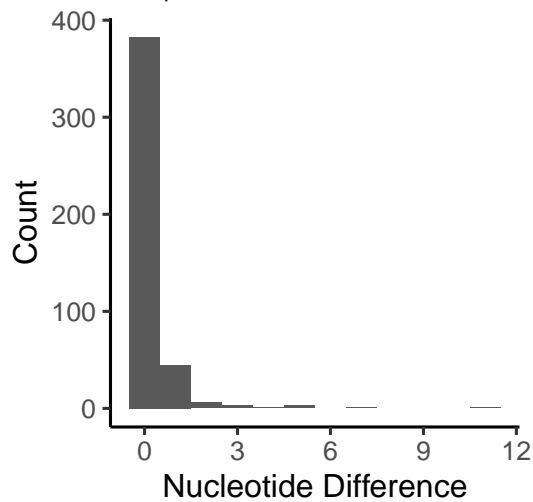
IGHV1-58*01

66 sequences assigned
58 (87.9%) exact matches, in which:
56 unique CDR3
5 unique J



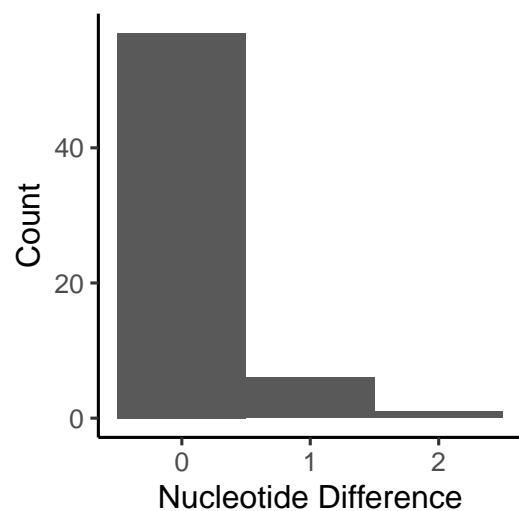
IGHV1-69*06

444 sequences assigned
383 (86.3%) exact matches, in which:
371 unique CDR3
6 unique J



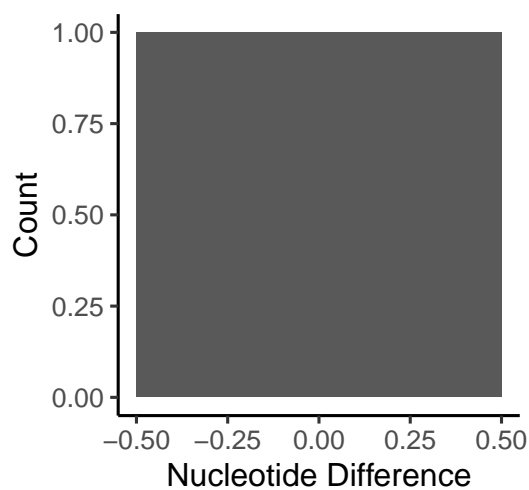
IGHV2-70*01

64 sequences assigned
57 (89.1%) exact matches, in which:
56 unique CDR3
6 unique J



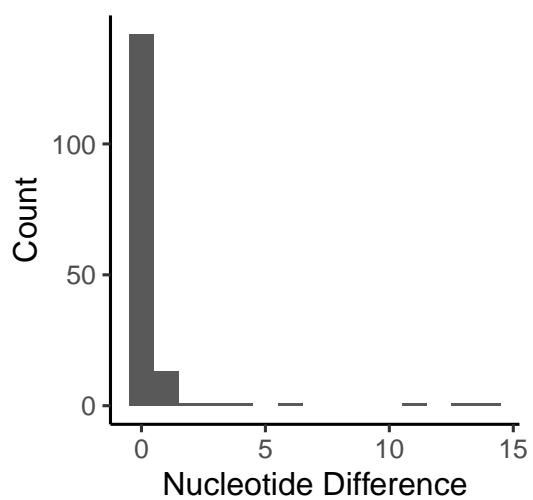
IGHV1-68*02

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



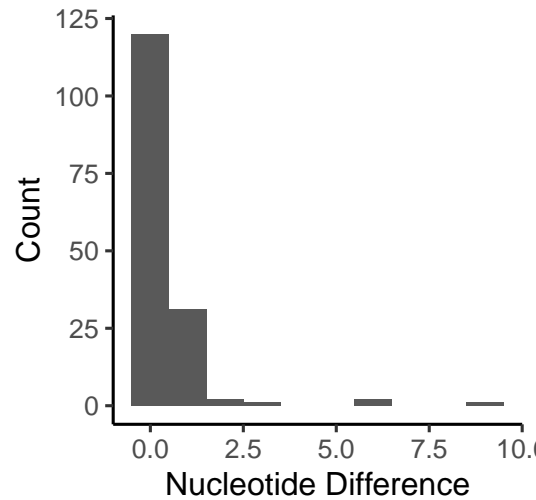
IGHV2-5*02

162 sequences assigned
142 (87.7%) exact matches, in which:
139 unique CDR3
6 unique J



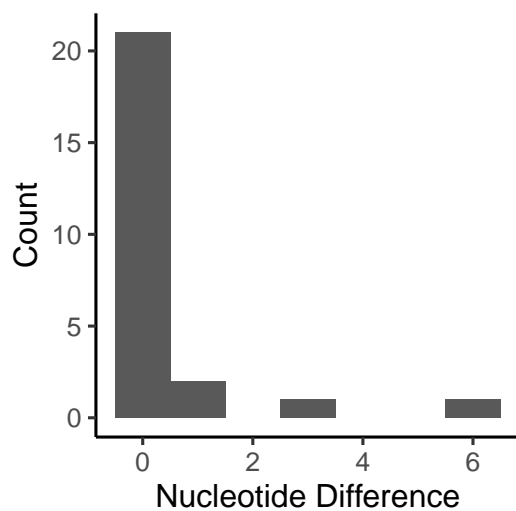
IGHV3-7*01

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



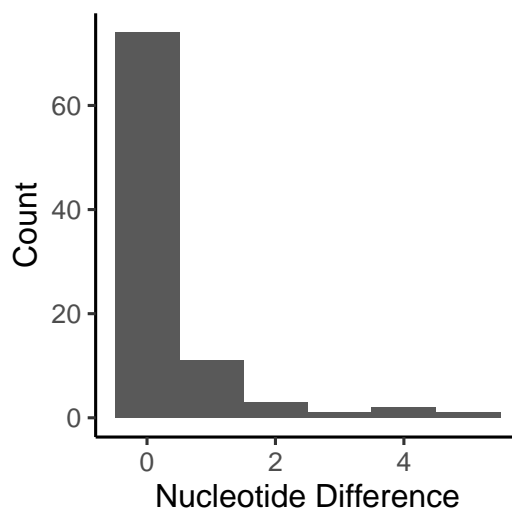
IGHV1-69-2*01

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



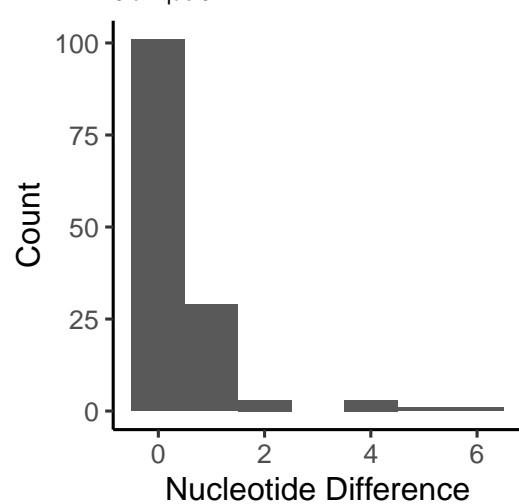
IGHV2-26*01

92 sequences assigned
74 (80.4%) exact matches, in which:
74 unique CDR3
5 unique J



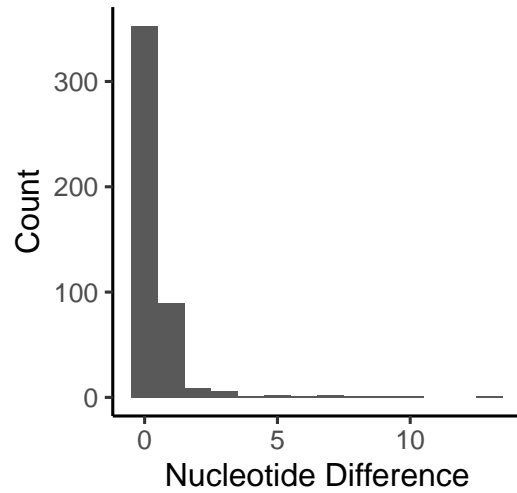
IGHV3-7*03

138 sequences assigned
101 (73.2%) exact matches, in which:
99 unique CDR3
6 unique J



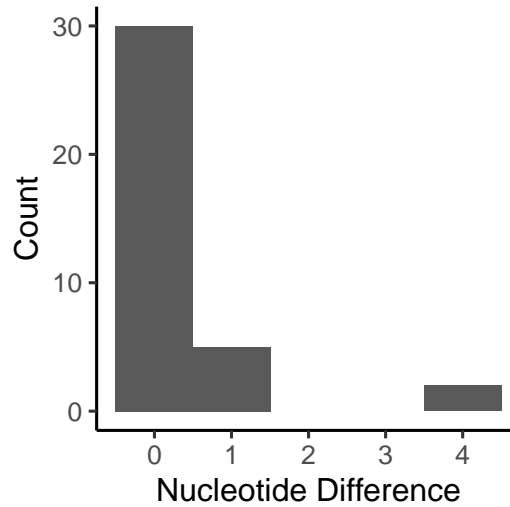
IGHV3-9*01

468 sequences assigned
353 (75.4%) exact matches, in which:
341 unique CDR3
6 unique J



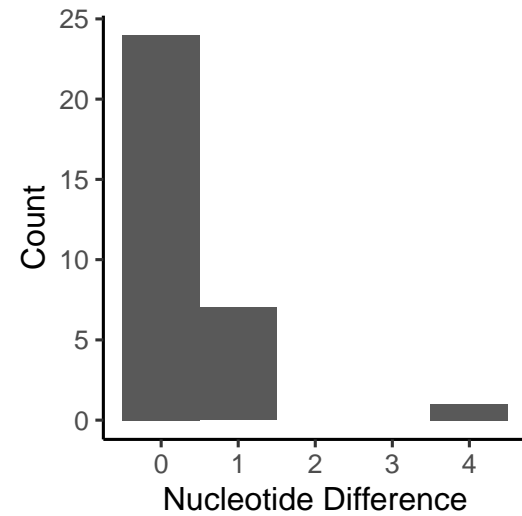
IGHV3-13*01

37 sequences assigned
30 (81.1%) exact matches, in which:
29 unique CDR3
5 unique J



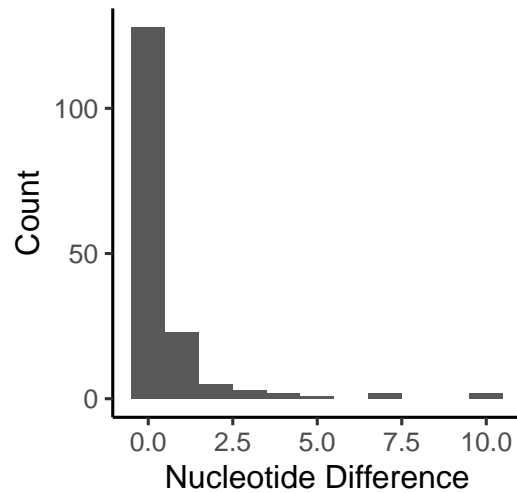
IGHV3-20*01

32 sequences assigned
24 (75%) exact matches, in which:
23 unique CDR3
5 unique J



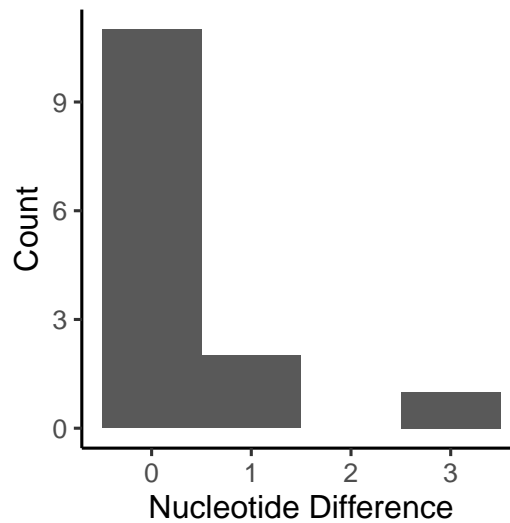
IGHV3-11*01

166 sequences assigned
128 (77.1%) exact matches, in which:
122 unique CDR3
5 unique J



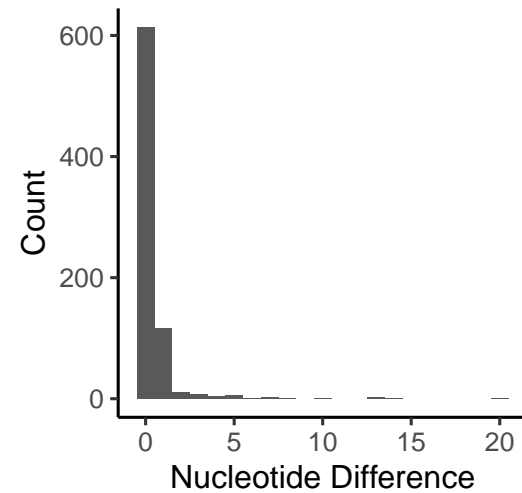
IGHV3-13*05

14 sequences assigned
11 (78.6%) exact matches, in which:
11 unique CDR3
3 unique J



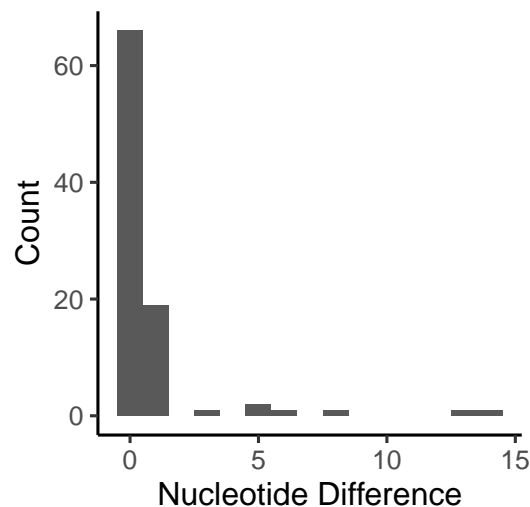
IGHV3-21*01

766 sequences assigned
614 (80.2%) exact matches, in which:
590 unique CDR3
6 unique J



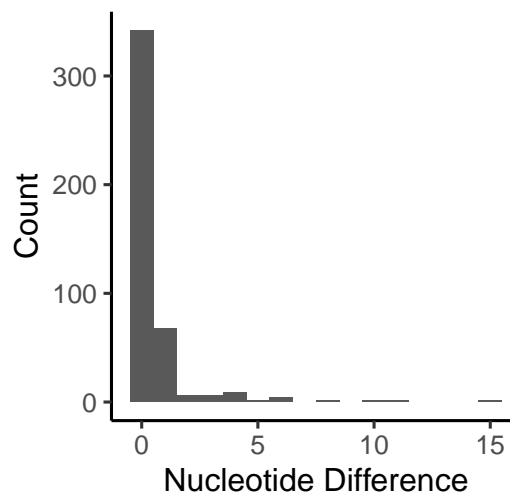
IGHV3-11*06

92 sequences assigned
66 (71.7%) exact matches, in which:
65 unique CDR3
6 unique J



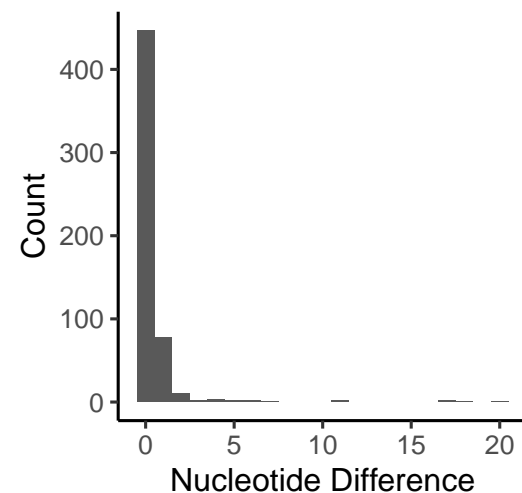
IGHV3-15*01

441 sequences assigned
342 (77.6%) exact matches, in which:
332 unique CDR3
6 unique J



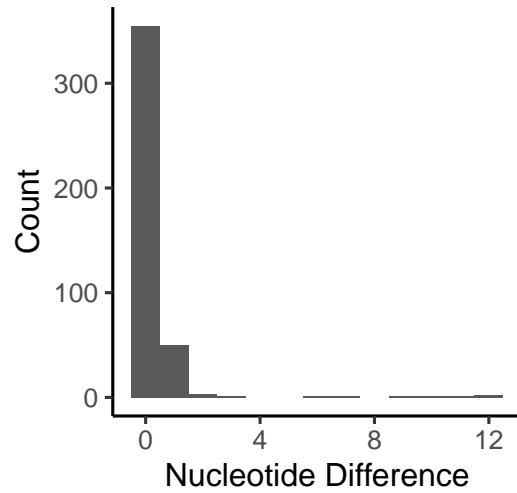
IGHV3-23*04

551 sequences assigned
447 (81.1%) exact matches, in which:
431 unique CDR3
6 unique J



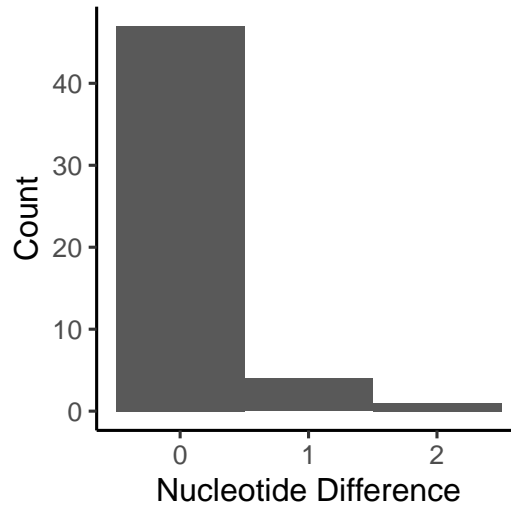
IGHV3–30*01

417 sequences assigned
355 (85.1%) exact matches, in which:
341 unique CDR3
6 unique J



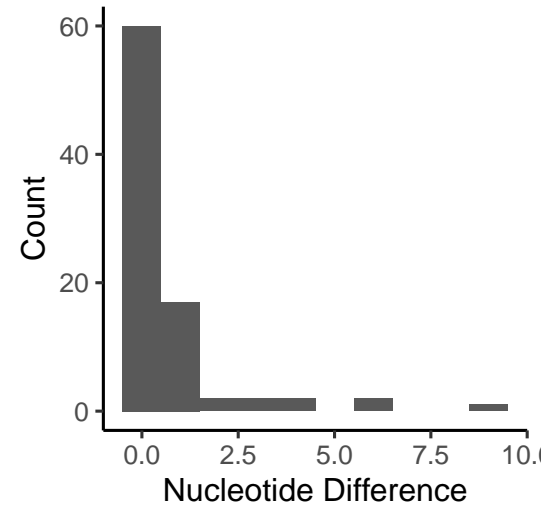
IGHV3–43*01

52 sequences assigned
47 (90.4%) exact matches, in which:
44 unique CDR3
5 unique J



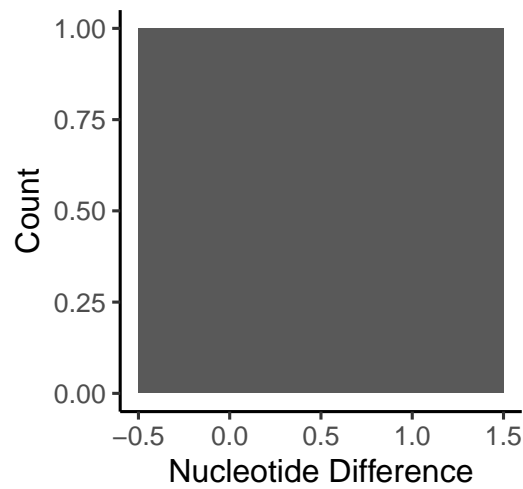
IGHV3–49*03

86 sequences assigned
60 (69.8%) exact matches, in which:
60 unique CDR3
5 unique J



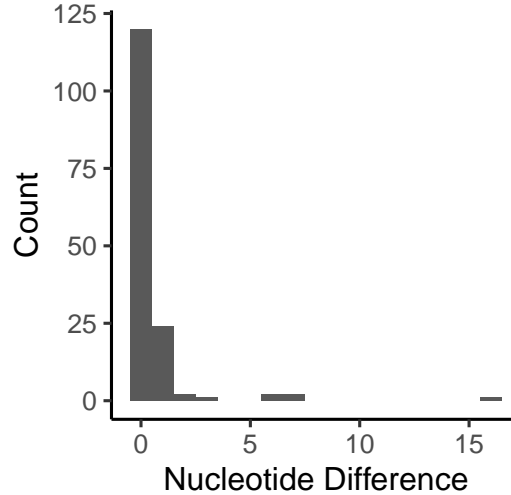
IGHV3–30–3*03

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



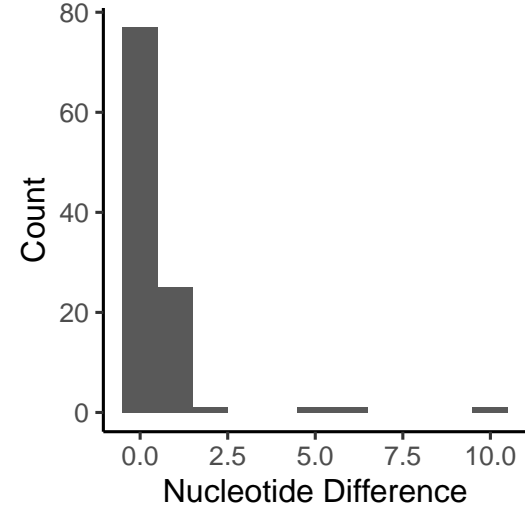
IGHV3–48*02

152 sequences assigned
120 (78.9%) exact matches, in which:
118 unique CDR3
5 unique J



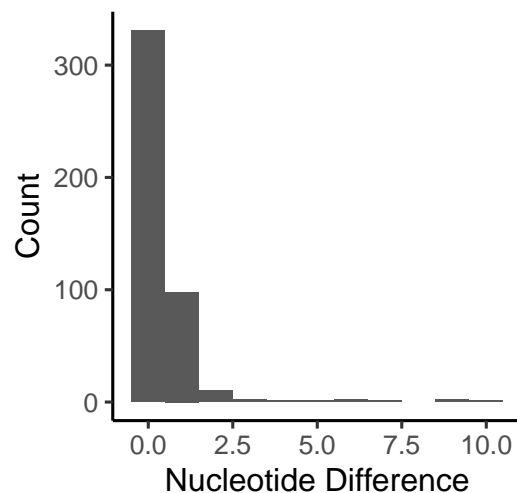
IGHV3–49*04

106 sequences assigned
77 (72.6%) exact matches, in which:
75 unique CDR3
5 unique J



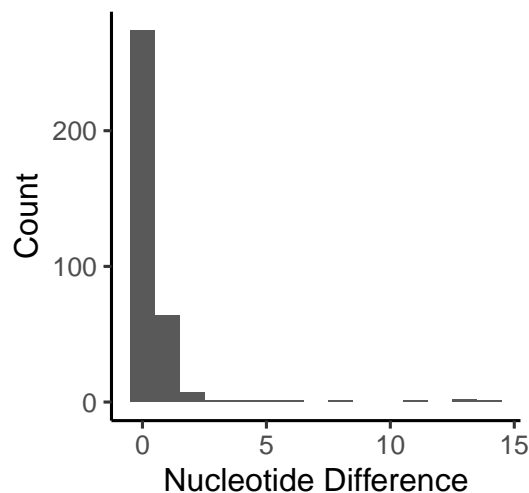
IGHV3–33*01

449 sequences assigned
331 (73.7%) exact matches, in which:
311 unique CDR3
6 unique J



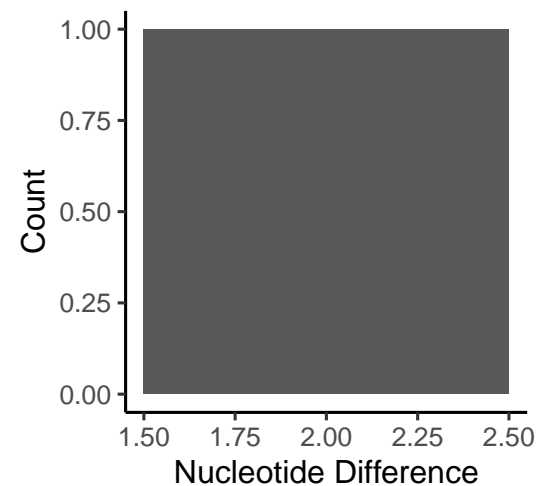
IGHV3–48*03

354 sequences assigned
274 (77.4%) exact matches, in which:
264 unique CDR3
6 unique J



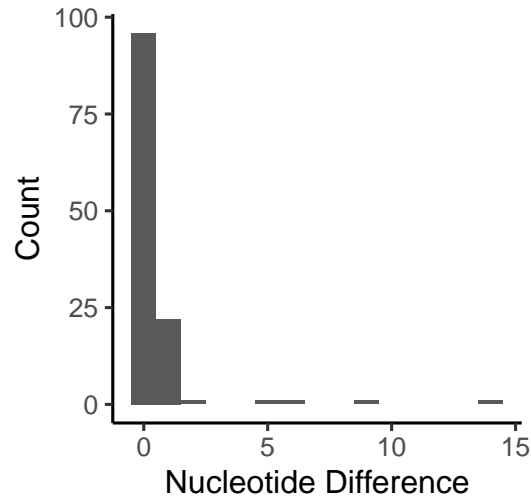
IGHV3–52*01

1 sequences assigned
No exact matches.



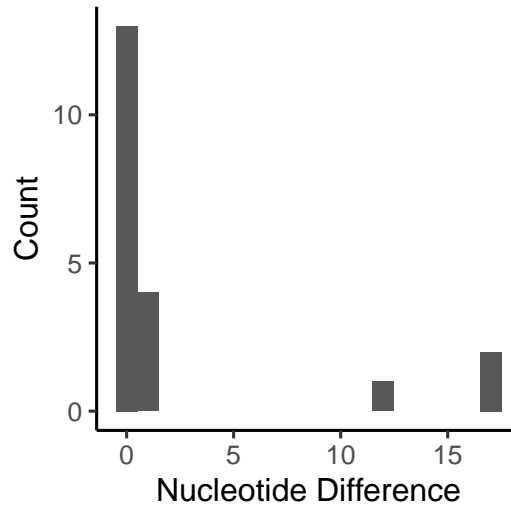
IGHV3–53*02

123 sequences assigned
96 (78%) exact matches, in which:
91 unique CDR3
5 unique J



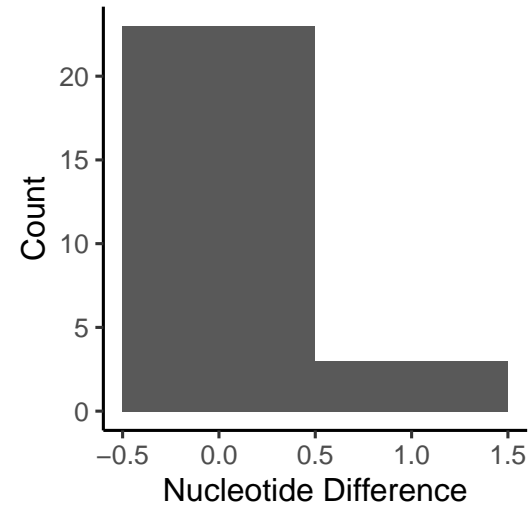
IGHV3–72*01

20 sequences assigned
13 (65%) exact matches, in which:
12 unique CDR3
4 unique J



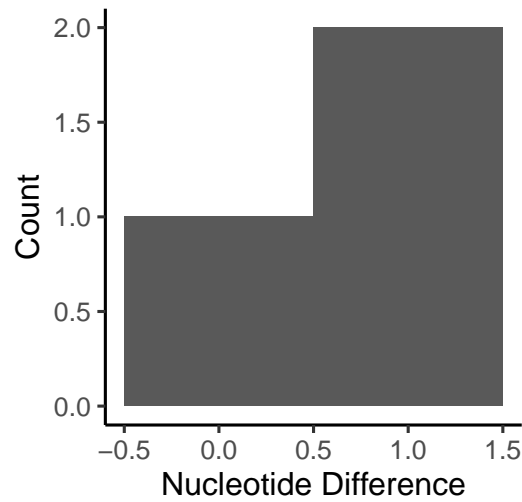
IGHV3–43D*04

26 sequences assigned
23 (88.5%) exact matches, in which:
23 unique CDR3
4 unique J



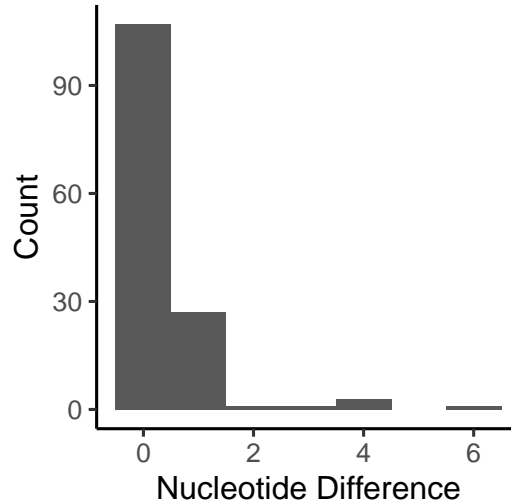
IGHV3–64*02

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



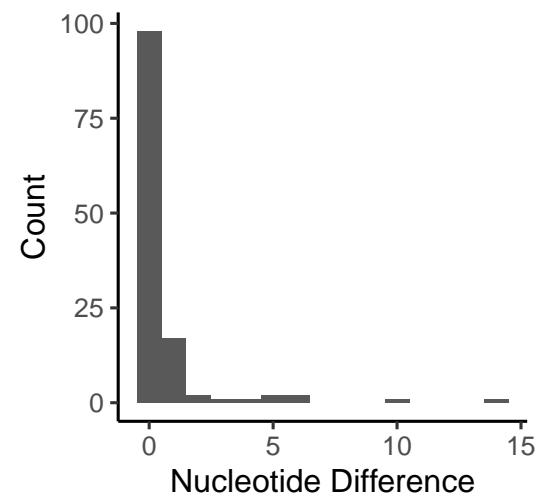
IGHV3–73*02

140 sequences assigned
107 (76.4%) exact matches, in which:
104 unique CDR3
5 unique J



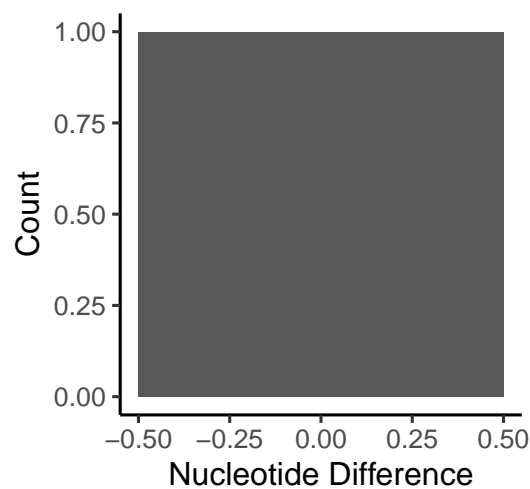
IGHV3–64D*06

125 sequences assigned
98 (78.4%) exact matches, in which:
94 unique CDR3
5 unique J



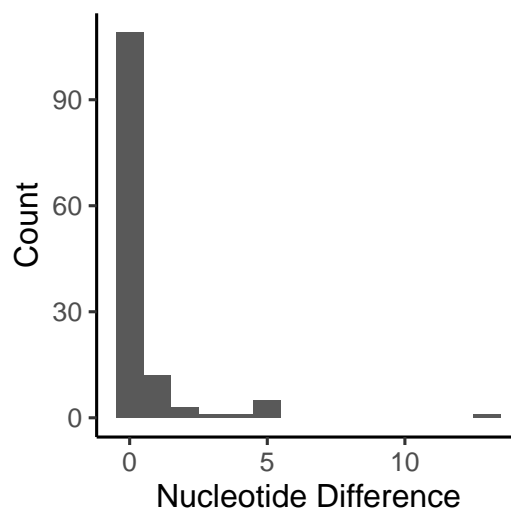
IGHV3–66*03

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



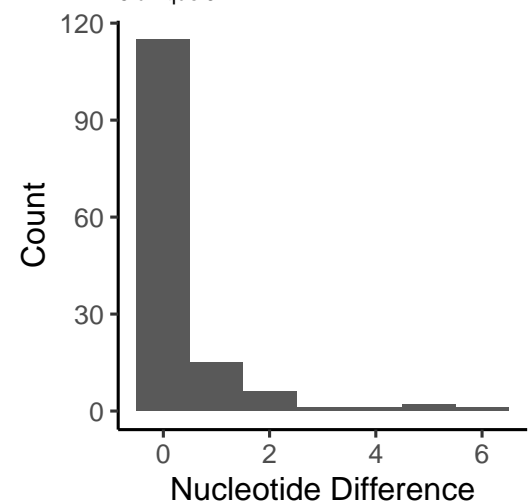
IGHV3–74*01

132 sequences assigned
109 (82.6%) exact matches, in which:
106 unique CDR3
5 unique J



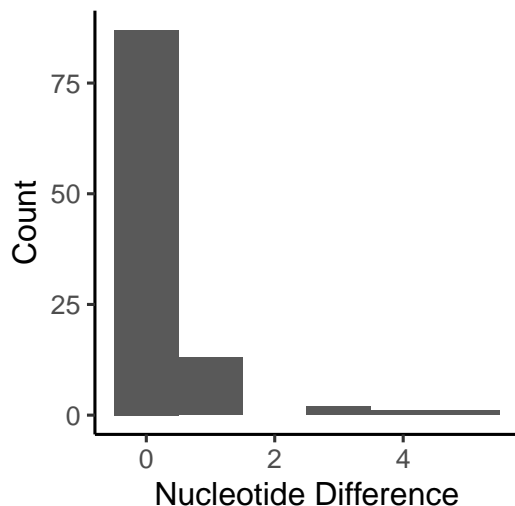
IGHV4–4*02

141 sequences assigned
115 (81.6%) exact matches, in which:
113 unique CDR3
6 unique J



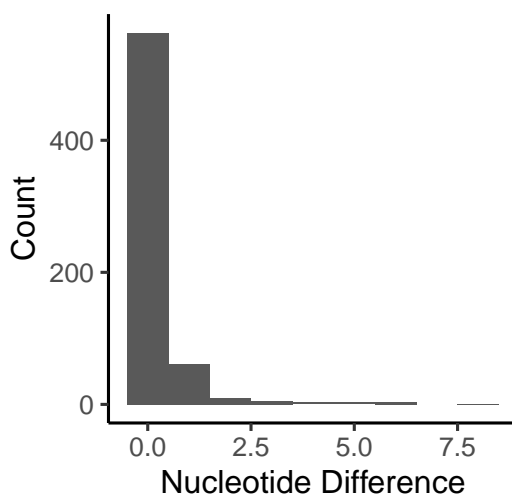
IGHV4-4*07

104 sequences assigned
87 (83.7%) exact matches, in which:
85 unique CDR3
6 unique J



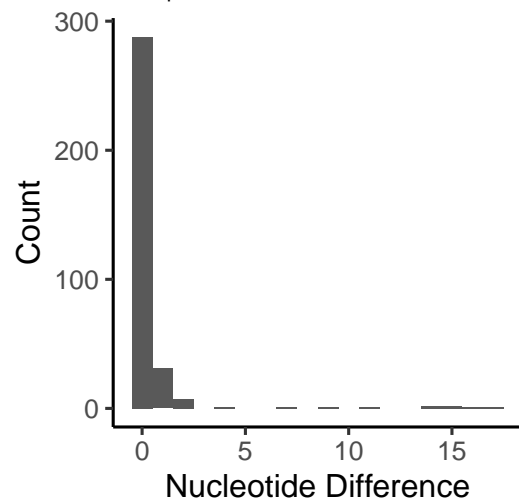
IGHV4-34*01

651 sequences assigned
563 (86.5%) exact matches, in which:
541 unique CDR3
6 unique J



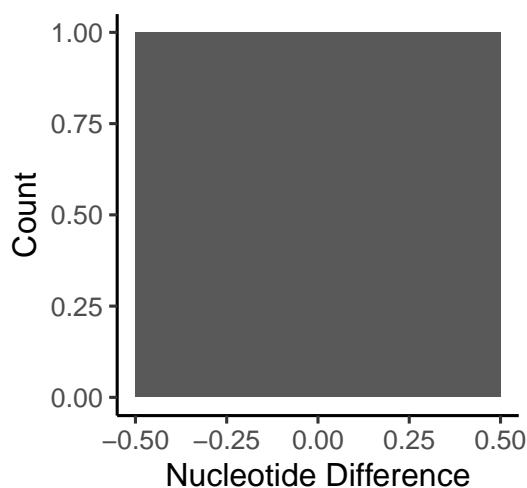
IGHV4-59*01

336 sequences assigned
288 (85.7%) exact matches, in which:
285 unique CDR3
6 unique J



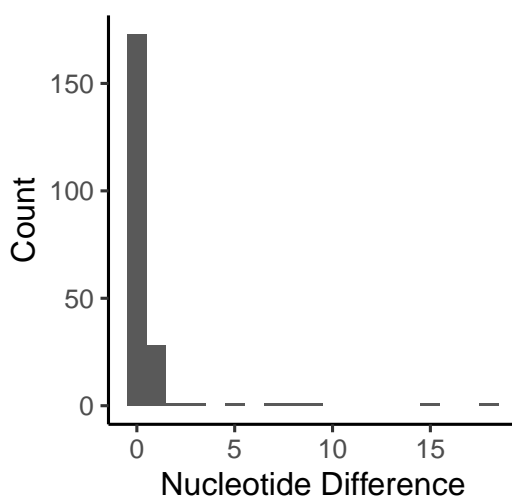
IGHV4-28*07

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



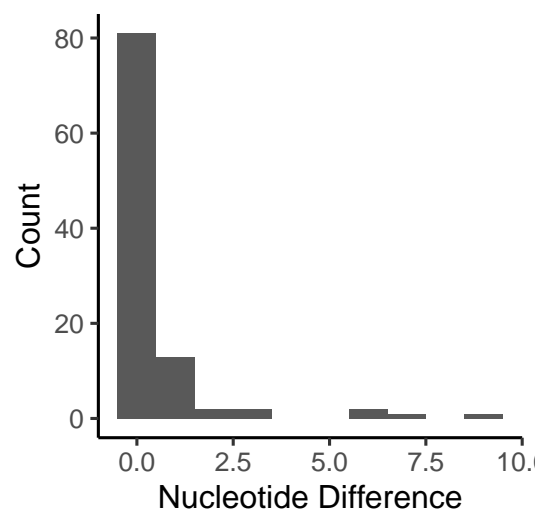
IGHV4-38-2*02_A70G

209 sequences assigned
173 (82.8%) exact matches, in which:
172 unique CDR3
6 unique J



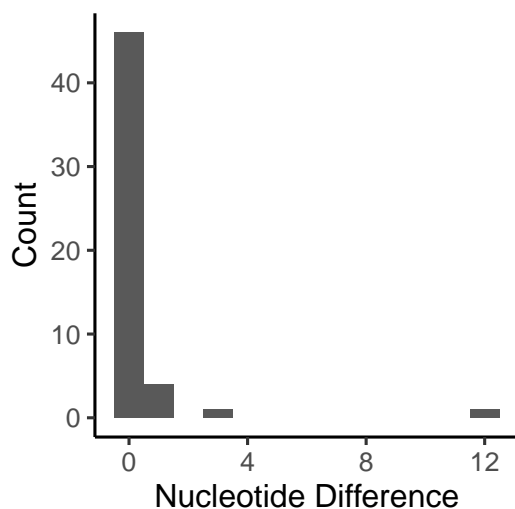
IGHV4-61*01

102 sequences assigned
81 (79.4%) exact matches, in which:
81 unique CDR3
6 unique J



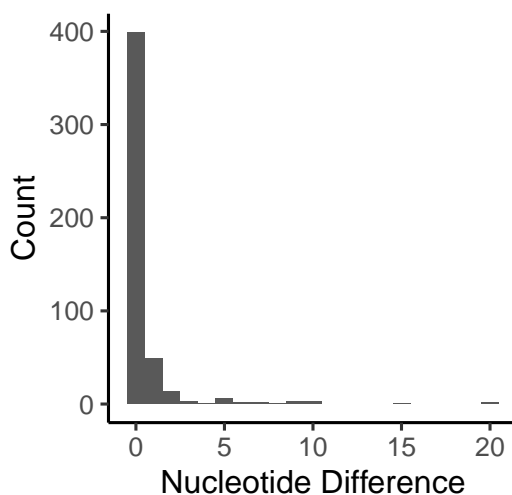
IGHV4-31*01

52 sequences assigned
46 (88.5%) exact matches, in which:
44 unique CDR3
5 unique J



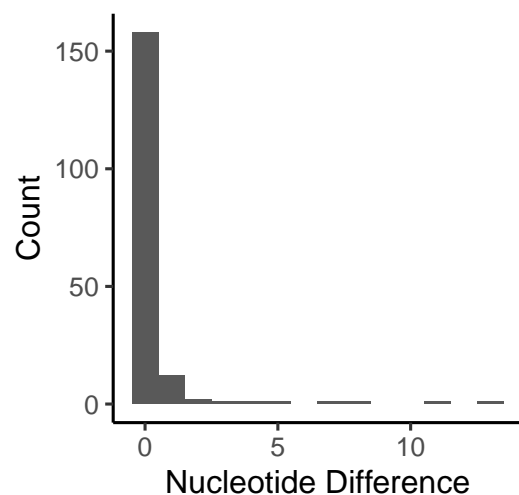
IGHV4-39*01

490 sequences assigned
399 (81.4%) exact matches, in which:
391 unique CDR3
6 unique J



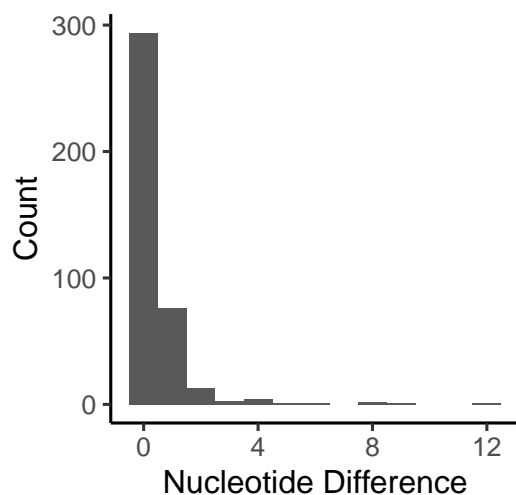
IGHV5-10-1*03

179 sequences assigned
158 (88.3%) exact matches, in which:
154 unique CDR3
5 unique J



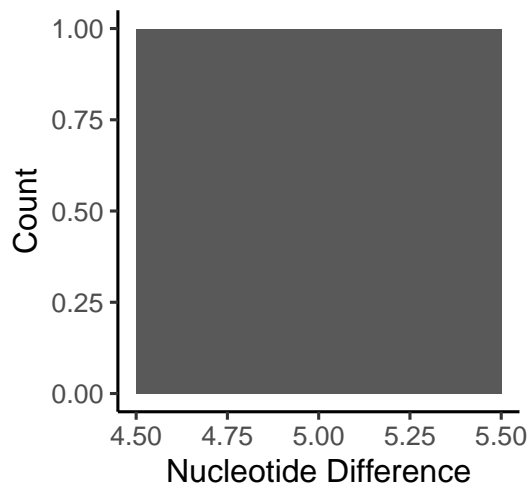
IGHV5–51*01

397 sequences assigned
294 (74.1%) exact matches, in which:
290 unique CDR3
6 unique J



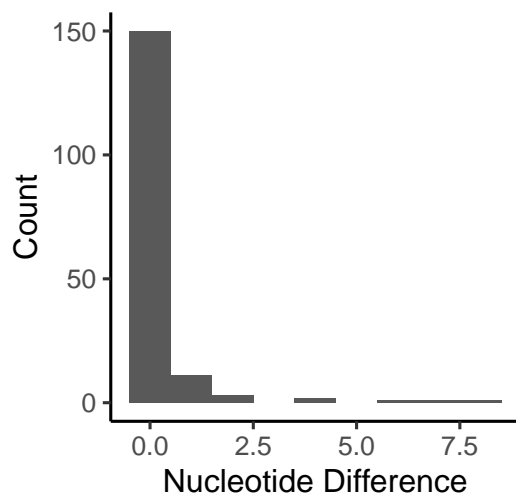
IGHV3/OR16–15*02

1 sequences assigned
No exact matches.



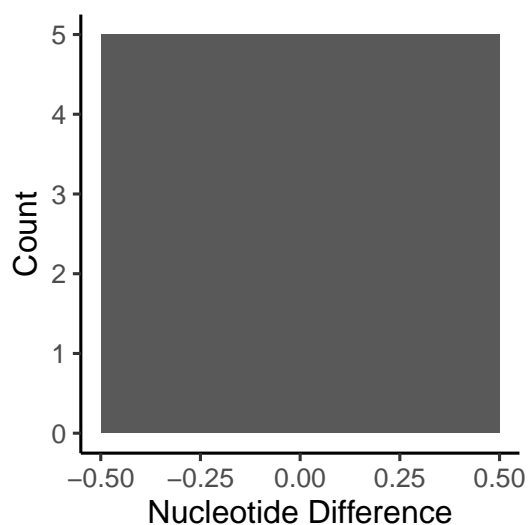
IGHV5–51*03

172 sequences assigned
150 (87.2%) exact matches, in which:
148 unique CDR3
6 unique J



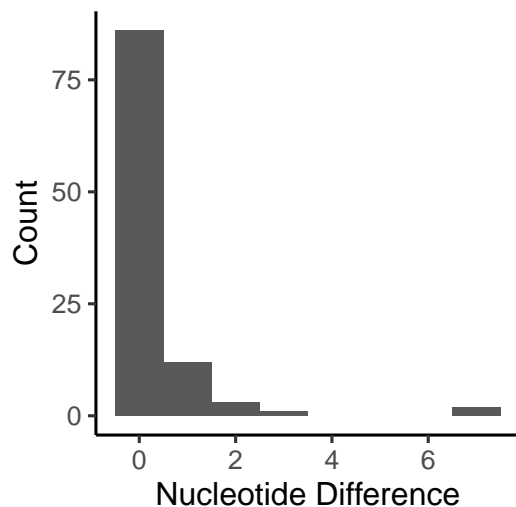
IGHV7–4–1*01

5 sequences assigned
5 (100%) exact matches, in which:
4 unique CDR3
3 unique J



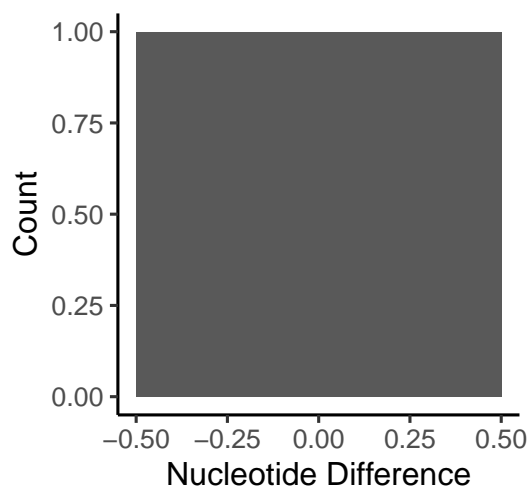
IGHV6–1*01

104 sequences assigned
86 (82.7%) exact matches, in which:
84 unique CDR3
5 unique J



IGHV7–4–1*02

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





Warning – no inferred sequences found.