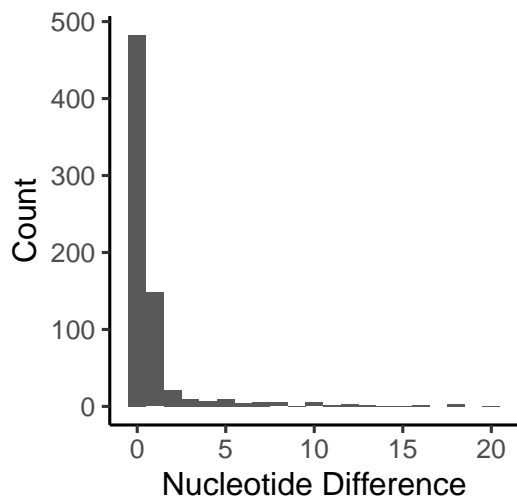


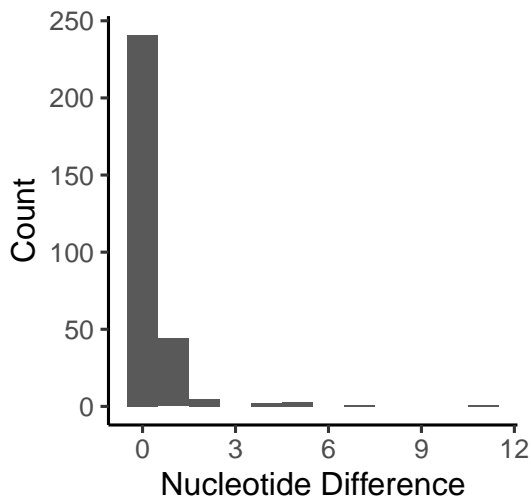
IGHV1-2*02

723 sequences assigned
483 (66.8%) exact matches, in which:
481 unique CDR3
6 unique J



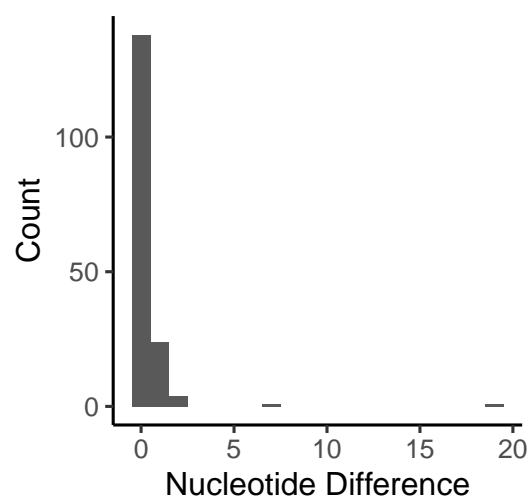
IGHV1-8*01

299 sequences assigned
241 (80.6%) exact matches, in which:
239 unique CDR3
6 unique J



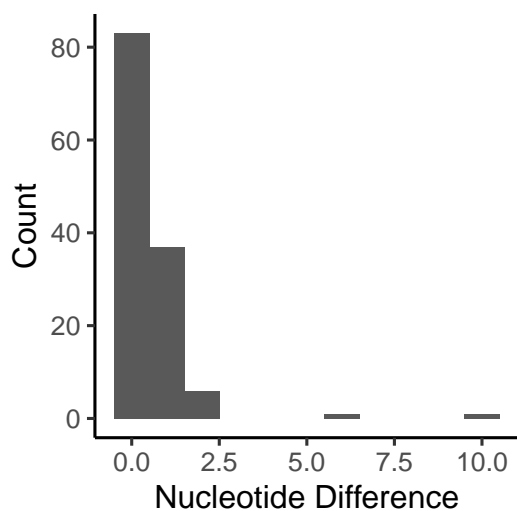
IGHV1-24*01

168 sequences assigned
138 (82.1%) exact matches, in which:
137 unique CDR3
6 unique J



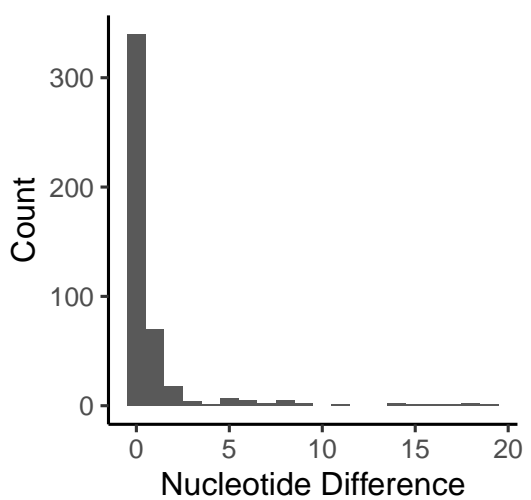
IGHV1-2*04

128 sequences assigned
83 (64.8%) exact matches, in which:
83 unique CDR3
4 unique J



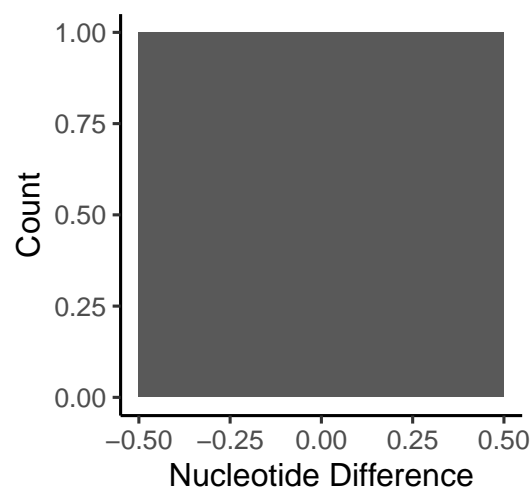
IGHV1-18*01

470 sequences assigned
340 (72.3%) exact matches, in which:
340 unique CDR3
6 unique J



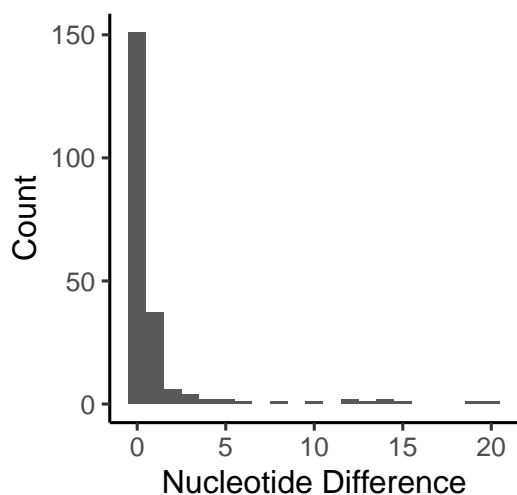
IGHV1-45*02

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



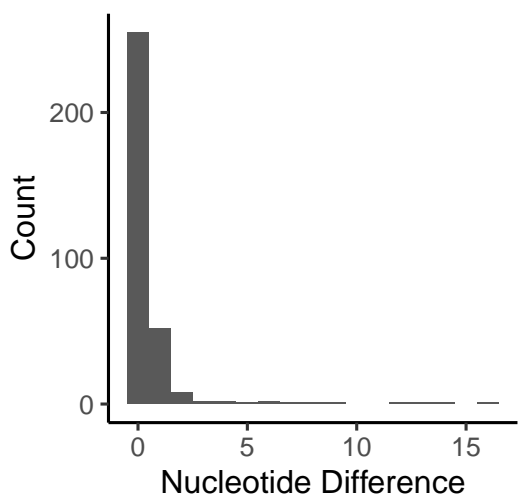
IGHV1-3*01

217 sequences assigned
151 (69.6%) exact matches, in which:
150 unique CDR3
6 unique J



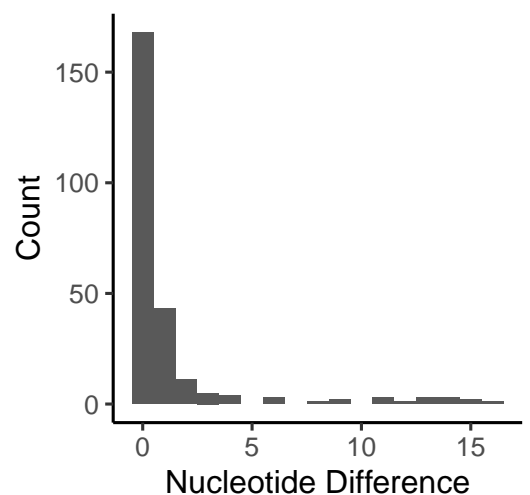
IGHV1-18*04

330 sequences assigned
255 (77.3%) exact matches, in which:
254 unique CDR3
6 unique J



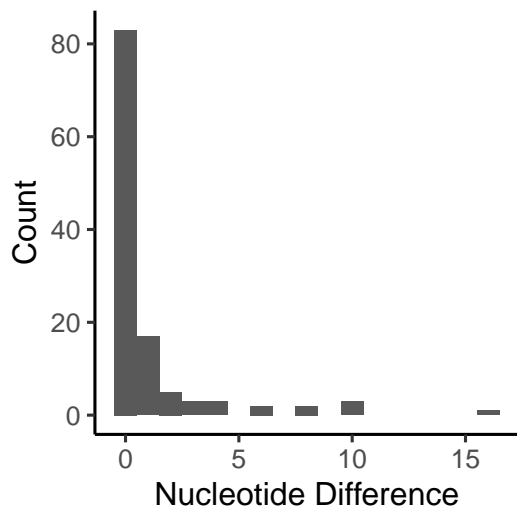
IGHV1-46*01

251 sequences assigned
168 (66.9%) exact matches, in which:
168 unique CDR3
6 unique J



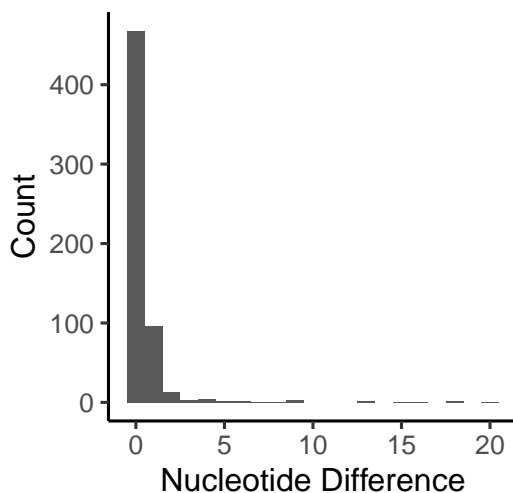
IGHV1-46*03

121 sequences assigned
83 (68.6%) exact matches, in which:
82 unique CDR3
5 unique J



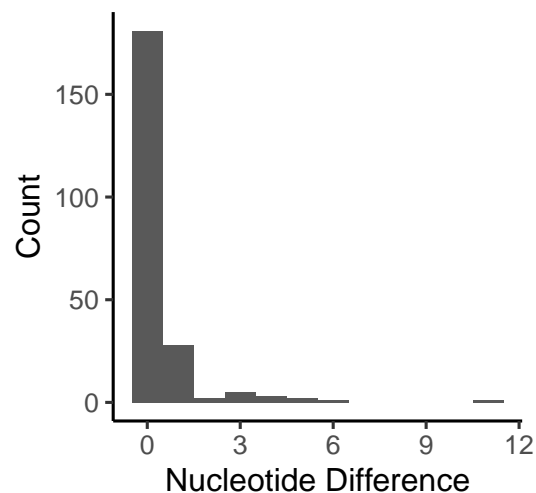
IGHV1-69*10

604 sequences assigned
468 (77.5%) exact matches, in which:
468 unique CDR3
6 unique J



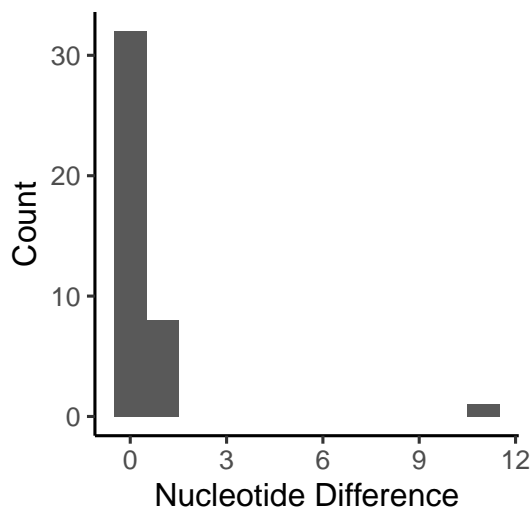
IGHV2-26*01

223 sequences assigned
181 (81.2%) exact matches, in which:
181 unique CDR3
5 unique J



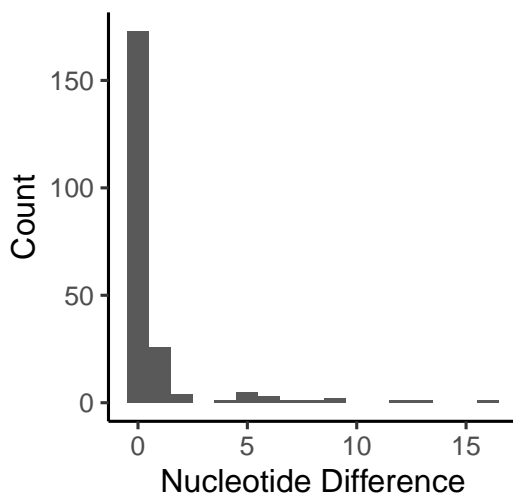
IGHV1-58*01

41 sequences assigned
32 (78%) exact matches, in which:
32 unique CDR3
4 unique J



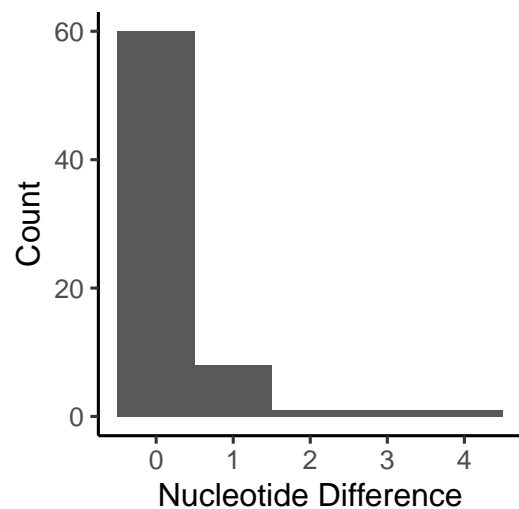
IGHV2-5*01

219 sequences assigned
173 (79%) exact matches, in which:
173 unique CDR3
6 unique J



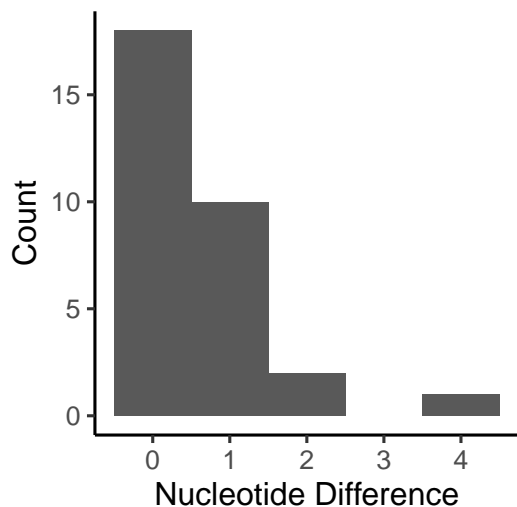
IGHV2-70*01

71 sequences assigned
60 (84.5%) exact matches, in which:
60 unique CDR3
5 unique J



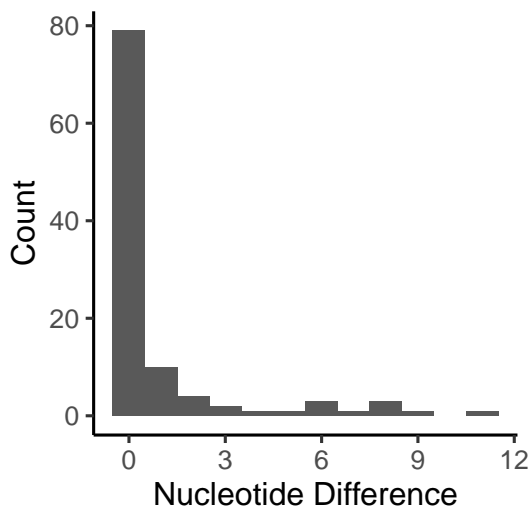
IGHV1-58*02

31 sequences assigned
18 (58.1%) exact matches, in which:
17 unique CDR3
3 unique J



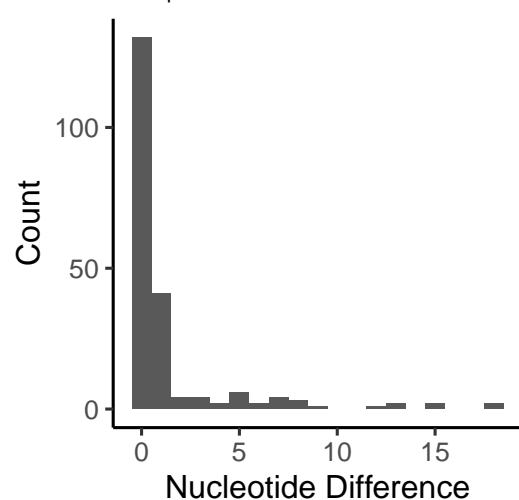
IGHV2-5*02

106 sequences assigned
79 (74.5%) exact matches, in which:
79 unique CDR3
6 unique J



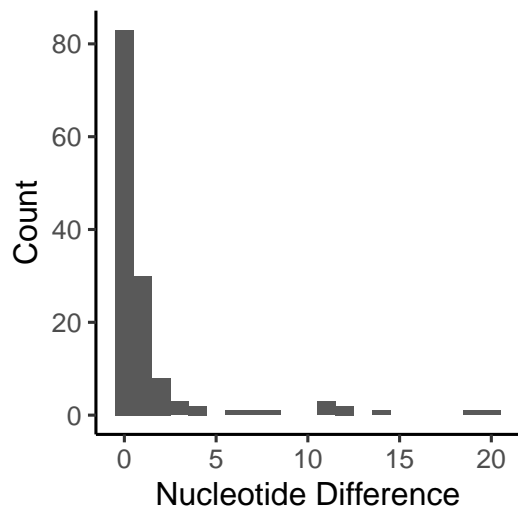
IGHV3-7*01

207 sequences assigned
132 (63.8%) exact matches, in which:
131 unique CDR3
6 unique J



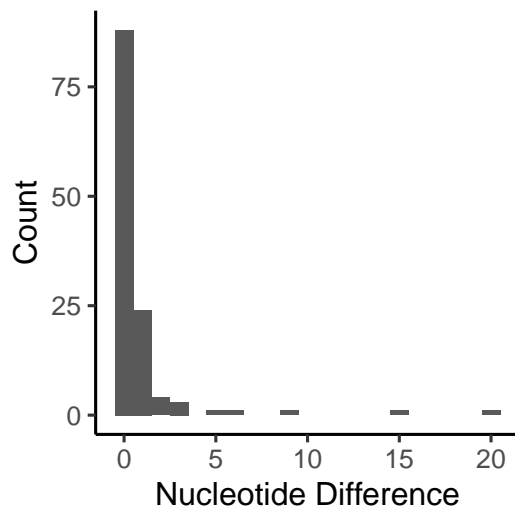
IGHV3-7*03

139 sequences assigned
83 (59.7%) exact matches, in which:
83 unique CDR3
5 unique J



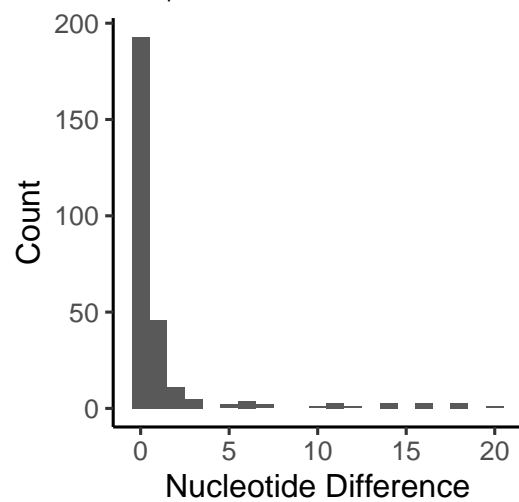
IGHV3-11*06

127 sequences assigned
88 (69.3%) exact matches, in which:
88 unique CDR3
5 unique J



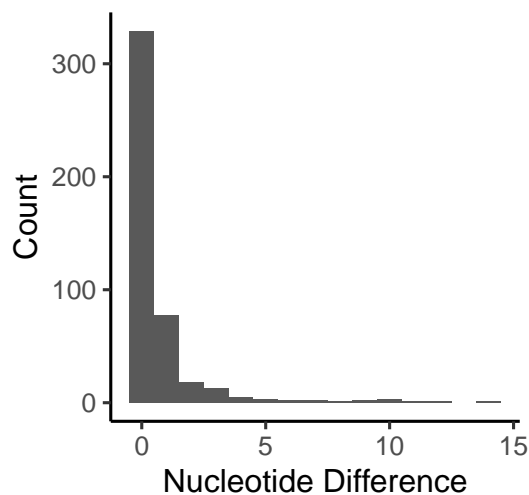
IGHV3-15*01

284 sequences assigned
193 (68%) exact matches, in which:
193 unique CDR3
6 unique J



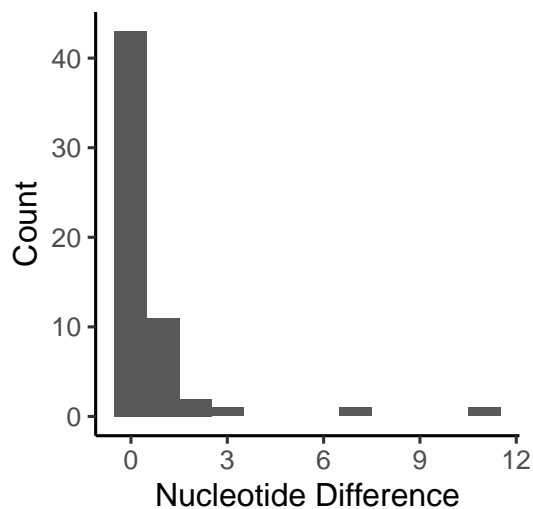
IGHV3-9*01

460 sequences assigned
329 (71.5%) exact matches, in which:
327 unique CDR3
6 unique J



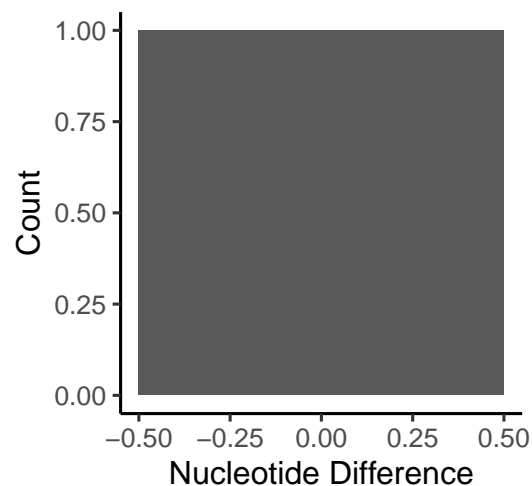
IGHV3-13*01

59 sequences assigned
43 (72.9%) exact matches, in which:
43 unique CDR3
5 unique J



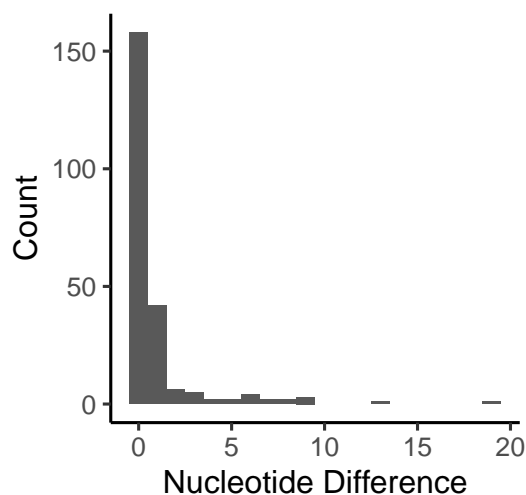
IGHV3-20*02

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



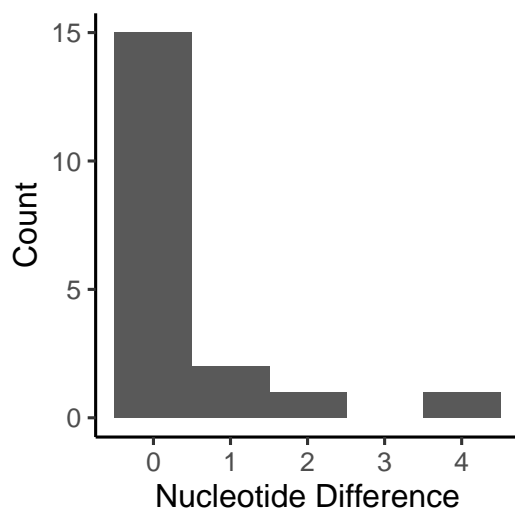
IGHV3-11*01

229 sequences assigned
158 (69%) exact matches, in which:
158 unique CDR3
6 unique J



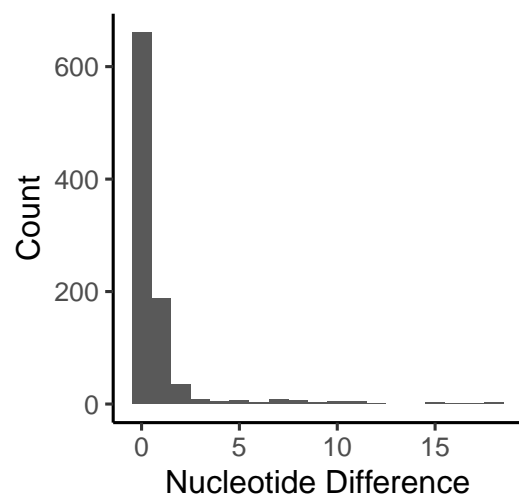
IGHV3-13*05

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



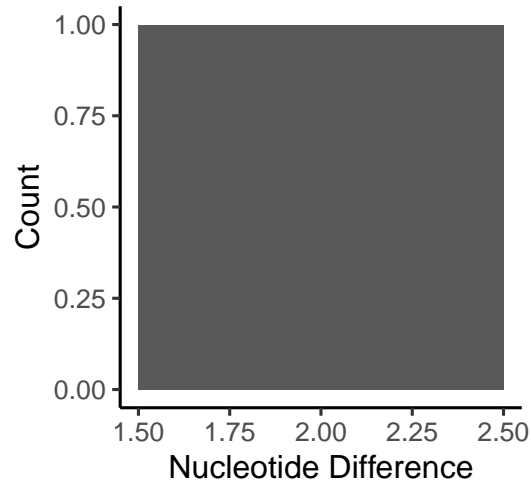
IGHV3-21*01

945 sequences assigned
661 (69.9%) exact matches, in which:
659 unique CDR3
6 unique J



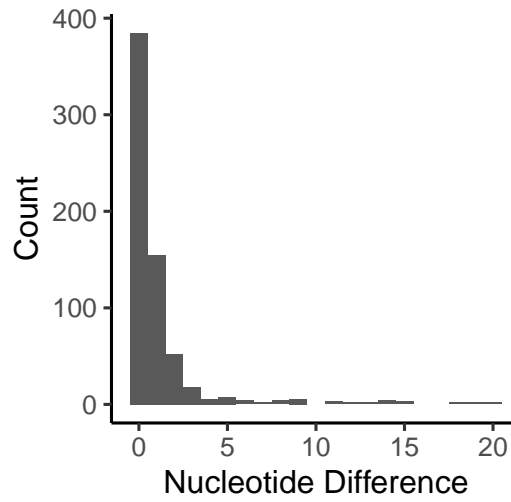
IGHV3-22*02

1 sequences assigned
No exact matches.



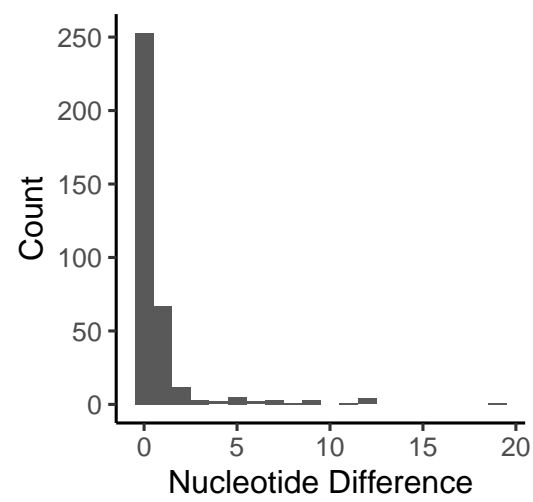
IGHV3-33*01

663 sequences assigned
385 (58.1%) exact matches, in which:
385 unique CDR3
6 unique J



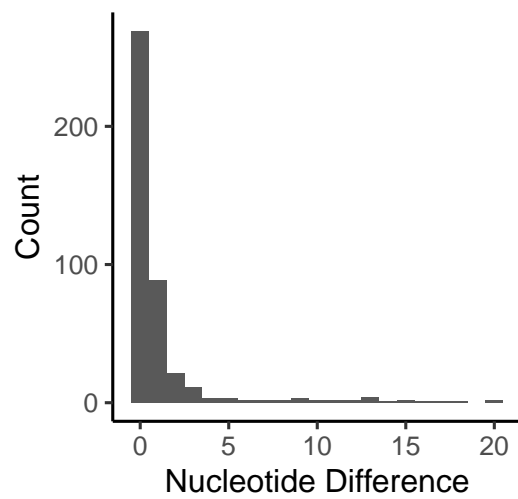
IGHV3-48*03

359 sequences assigned
253 (70.5%) exact matches, in which:
253 unique CDR3
6 unique J



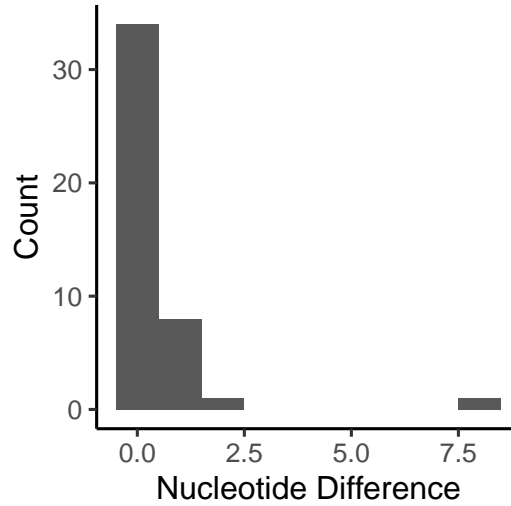
IGHV3-30*01

426 sequences assigned
269 (63.1%) exact matches, in which:
269 unique CDR3
6 unique J



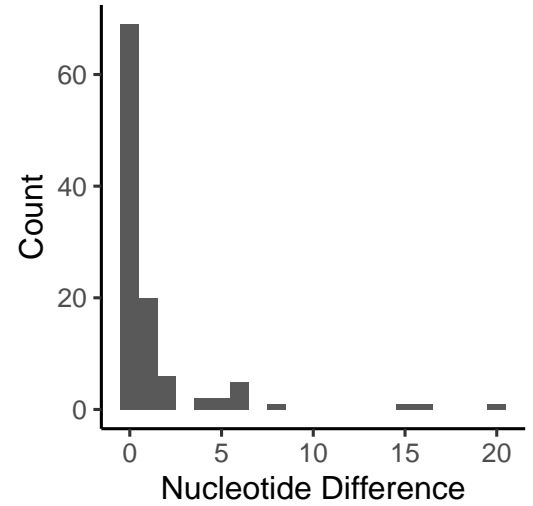
IGHV3-43*01

44 sequences assigned
34 (77.3%) exact matches, in which:
34 unique CDR3
3 unique J



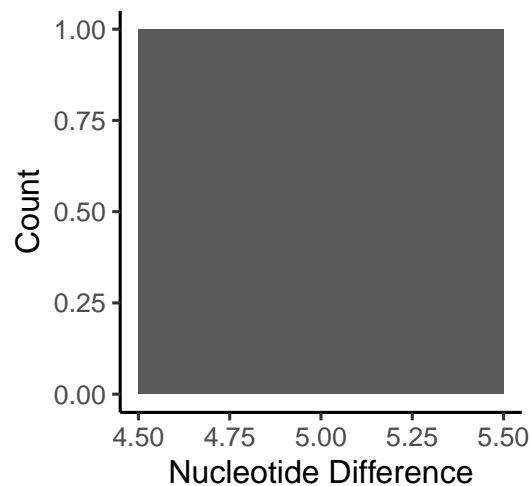
IGHV3-49*04

109 sequences assigned
69 (63.3%) exact matches, in which:
69 unique CDR3
5 unique J



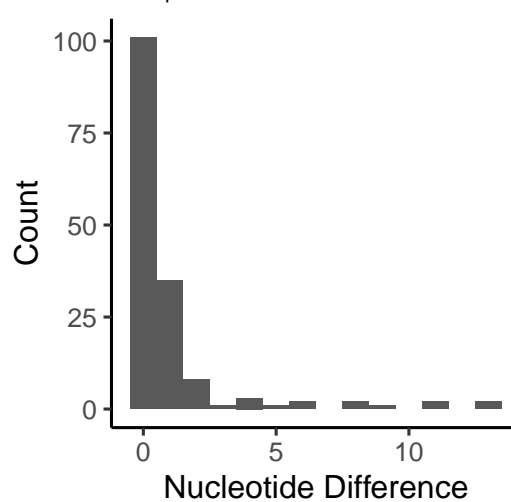
IGHV3-30-3*03

2 sequences assigned
No exact matches.



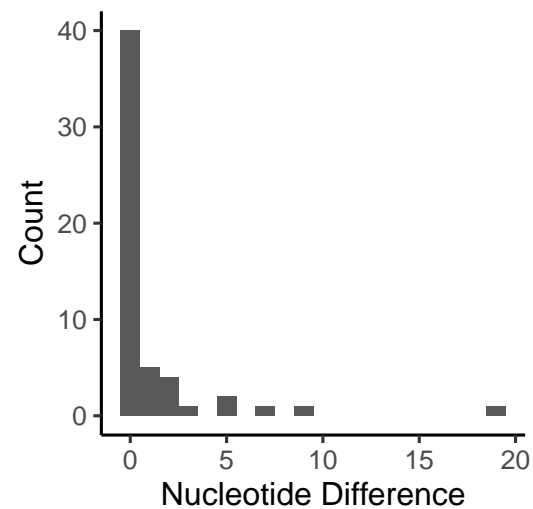
IGHV3-48*02

161 sequences assigned
101 (62.7%) exact matches, in which:
100 unique CDR3
6 unique J



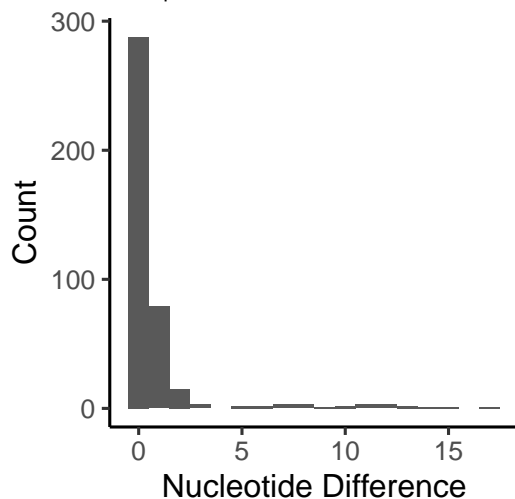
IGHV3-49*05

55 sequences assigned
40 (72.7%) exact matches, in which:
40 unique CDR3
5 unique J



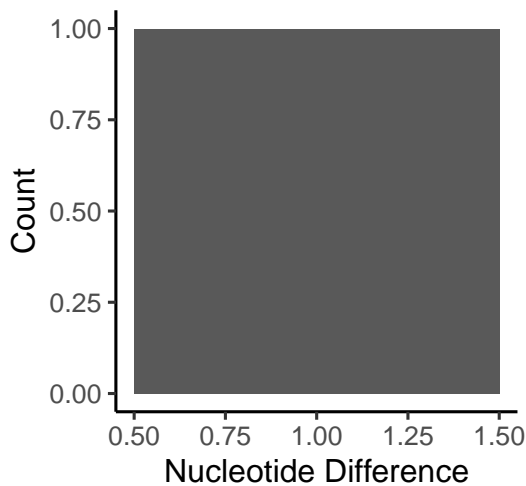
IGHV3-53*01

413 sequences assigned
288 (69.7%) exact matches, in which:
288 unique CDR3
6 unique J



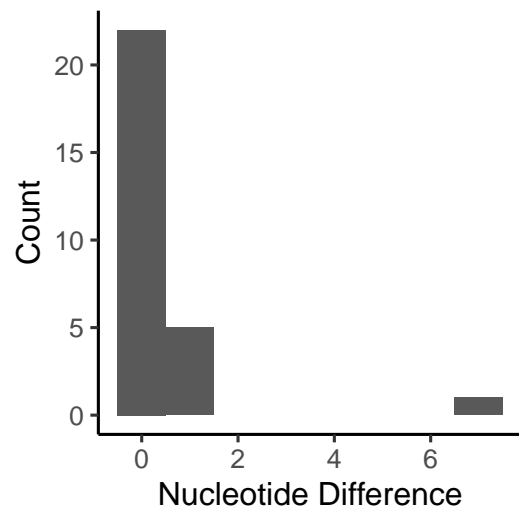
IGHV3-66*03

1 sequences assigned
No exact matches.



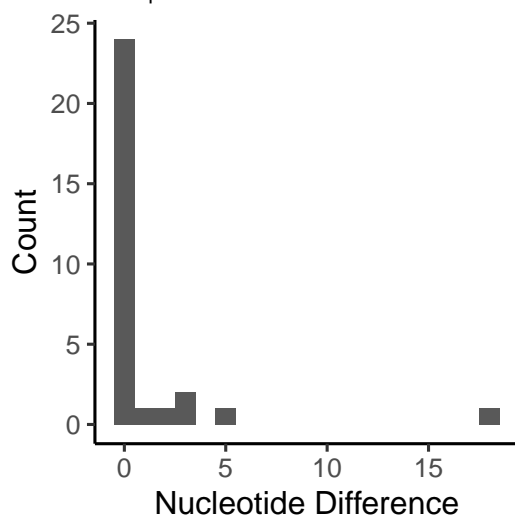
IGHV3-73*02

28 sequences assigned
22 (78.6%) exact matches, in which:
22 unique CDR3
4 unique J



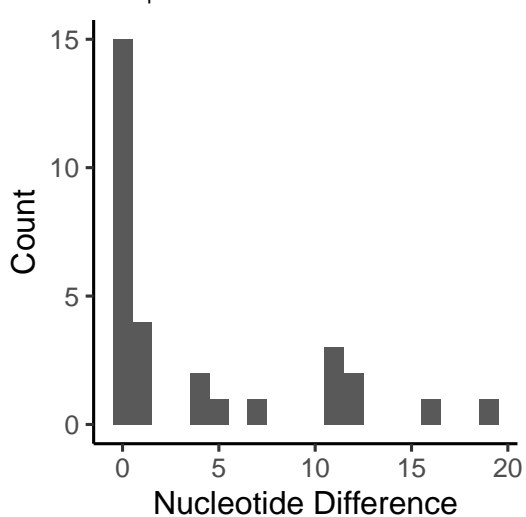
IGHV3-64*01

30 sequences assigned
24 (80%) exact matches, in which:
24 unique CDR3
6 unique J



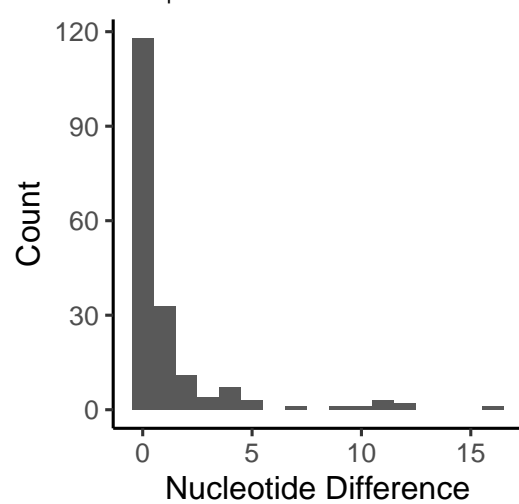
IGHV3-72*01

30 sequences assigned
15 (50%) exact matches, in which:
15 unique CDR3
5 unique J



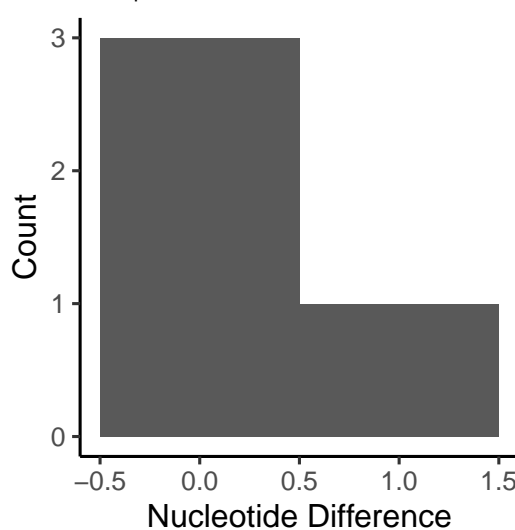
IGHV3-74*01

188 sequences assigned
118 (62.8%) exact matches, in which:
116 unique CDR3
6 unique J



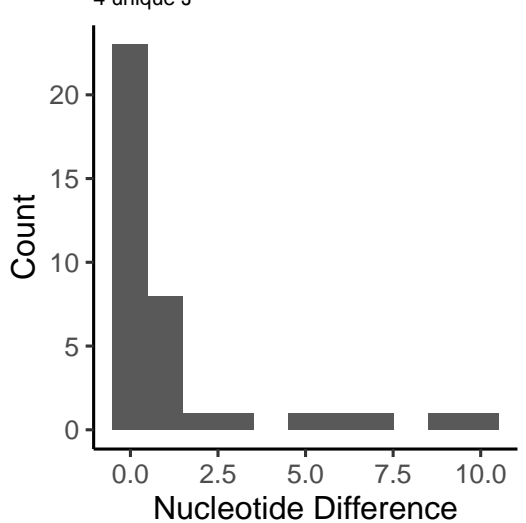
IGHV3-64*02

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



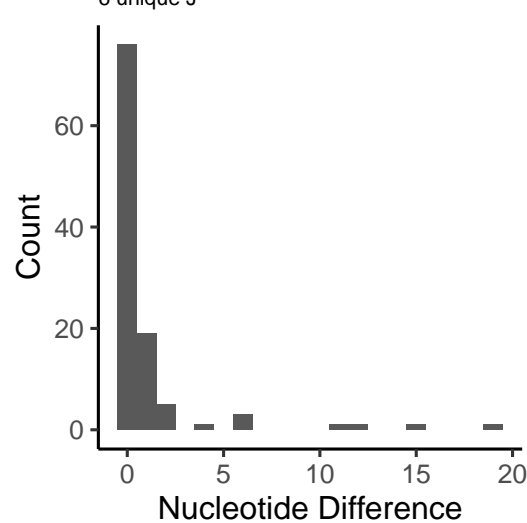
IGHV3-73*01

38 sequences assigned
23 (60.5%) exact matches, in which:
23 unique CDR3
4 unique J



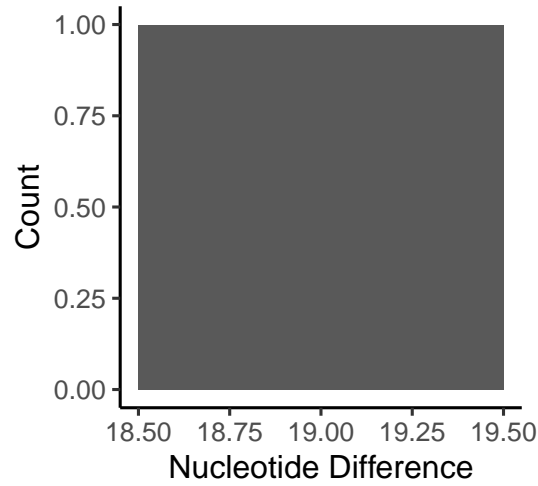
IGHV3-64D*06

109 sequences assigned
76 (69.7%) exact matches, in which:
76 unique CDR3
6 unique J



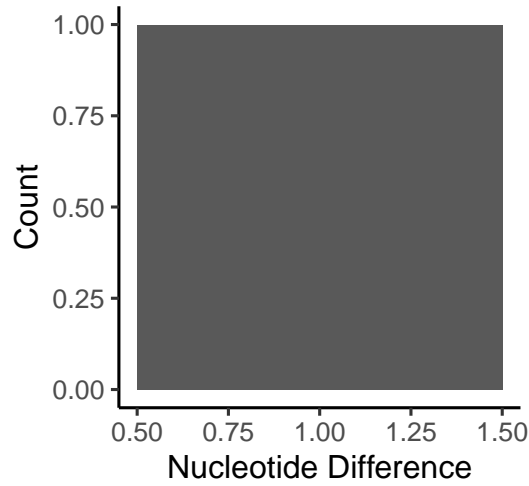
IGHV3–NL1*01

1 sequences assigned
No exact matches.



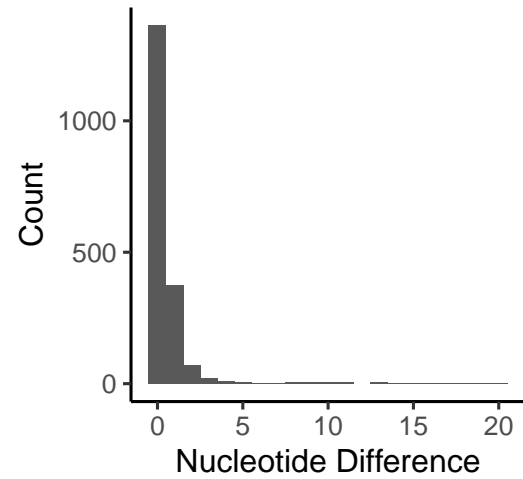
IGHV4–28*07

1 sequences assigned
No exact matches.



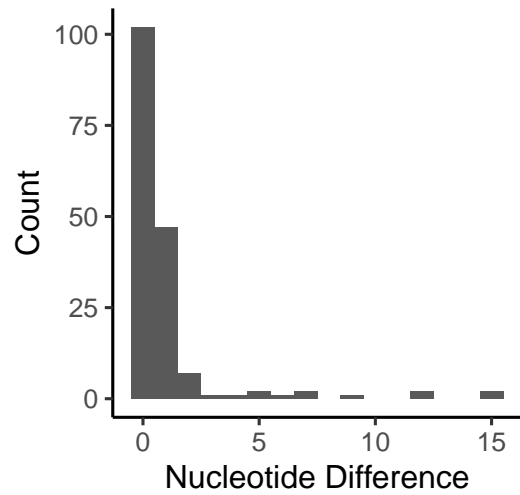
IGHV4–34*01

1894 sequences assigned
1363 (72%) exact matches, in which:
1361 unique CDR3
6 unique J



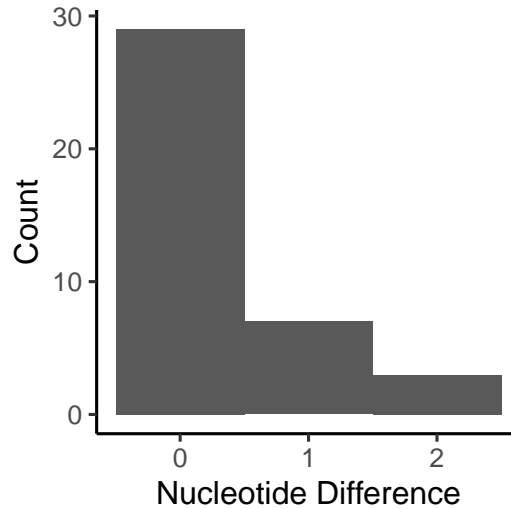
IGHV4–4*02

169 sequences assigned
102 (60.4%) exact matches, in which:
101 unique CDR3
5 unique J



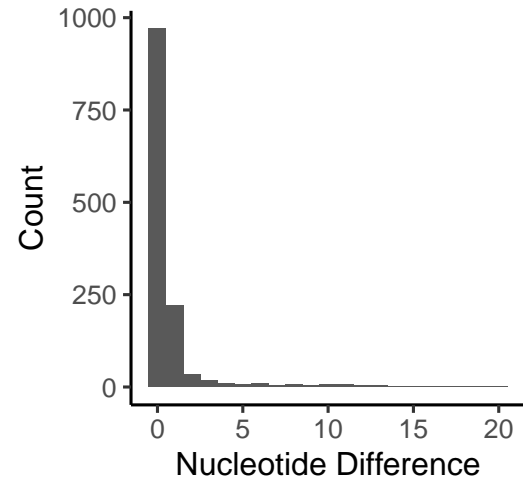
IGHV4–31*01

39 sequences assigned
29 (74.4%) exact matches, in which:
29 unique CDR3
6 unique J



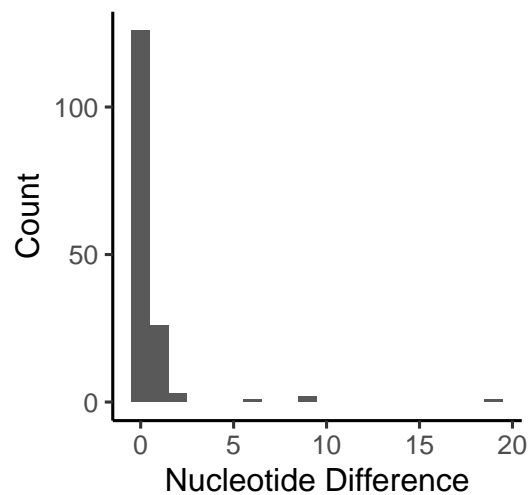
IGHV4–39*01

1332 sequences assigned
970 (72.8%) exact matches, in which:
970 unique CDR3
6 unique J



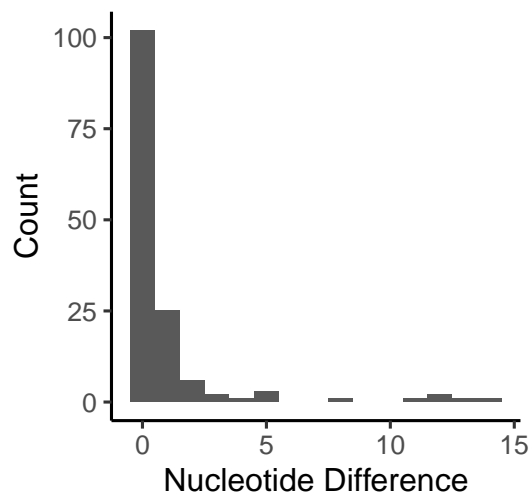
IGHV4–4*07

161 sequences assigned
126 (78.3%) exact matches, in which:
126 unique CDR3
6 unique J



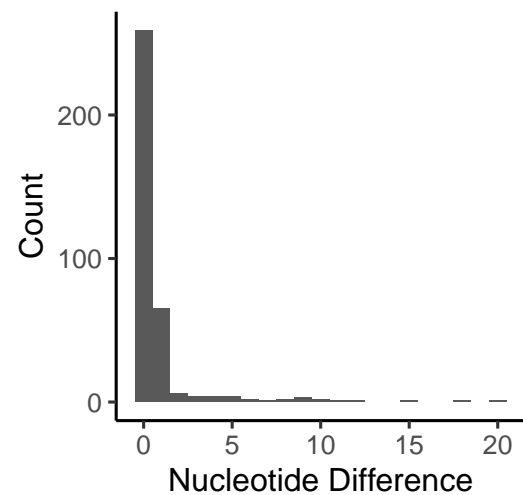
IGHV4–31*03

146 sequences assigned
102 (69.9%) exact matches, in which:
102 unique CDR3
5 unique J



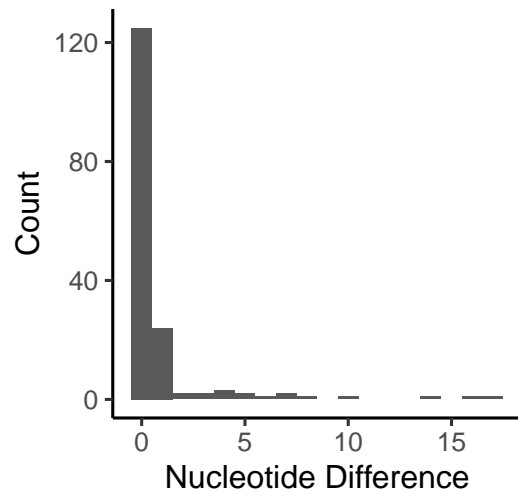
IGHV4–59*01

362 sequences assigned
259 (71.5%) exact matches, in which:
259 unique CDR3
6 unique J



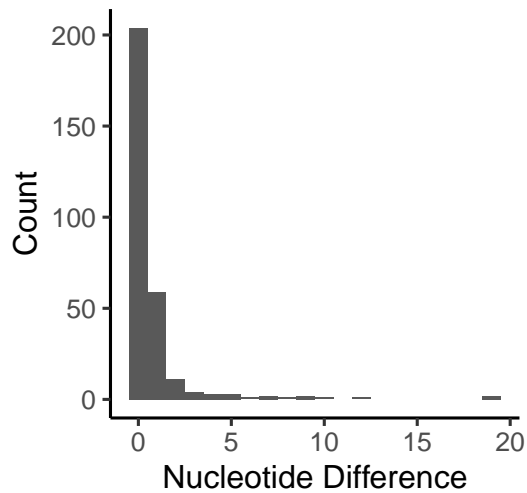
IGHV4–59*08

166 sequences assigned
125 (75.3%) exact matches, in which:
125 unique CDR3
6 unique J



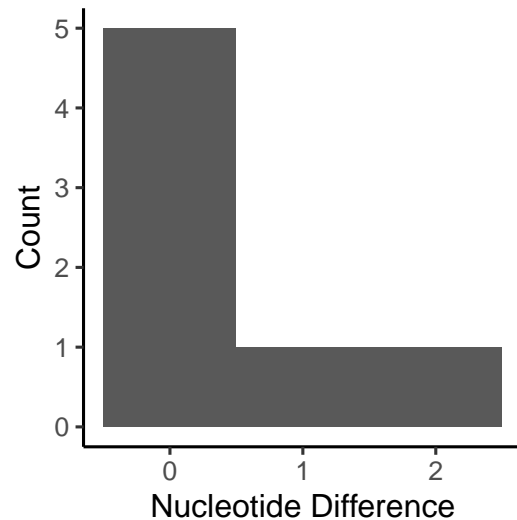
IGHV5–51*01

298 sequences assigned
204 (68.5%) exact matches, in which:
204 unique CDR3
6 unique J



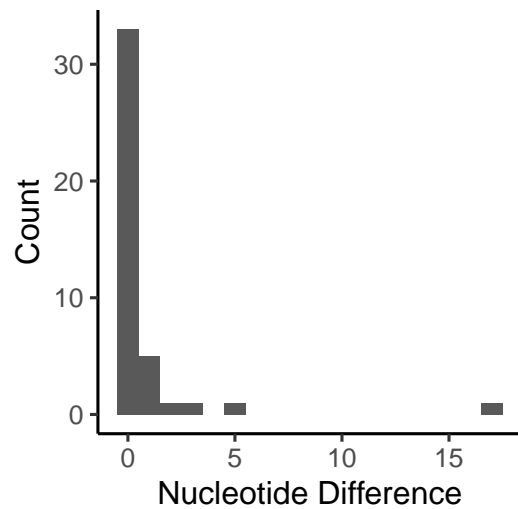
IGHV7–4–1*01

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



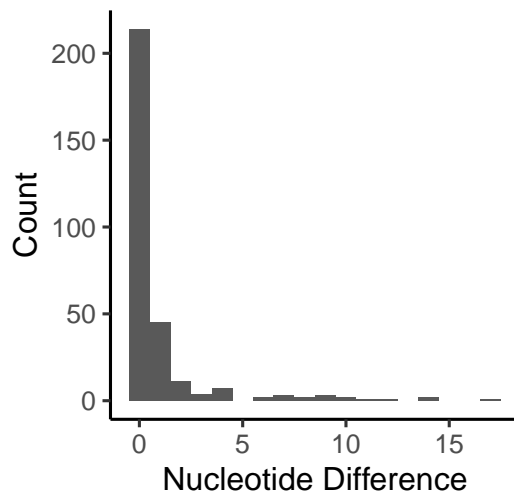
IGHV4–61*01

42 sequences assigned
33 (78.6%) exact matches, in which:
33 unique CDR3
4 unique J



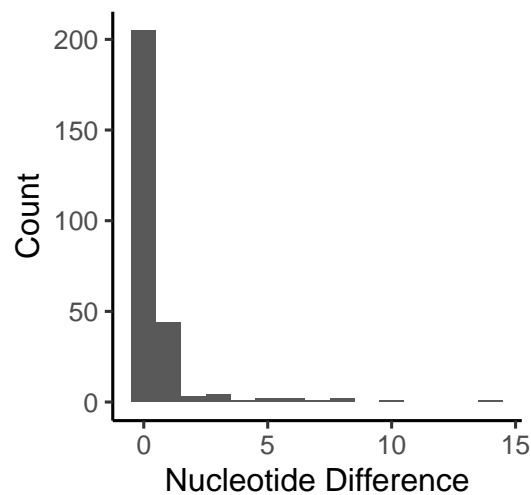
IGHV5–51*01_C45G

301 sequences assigned
214 (71.1%) exact matches, in which:
214 unique CDR3
6 unique J



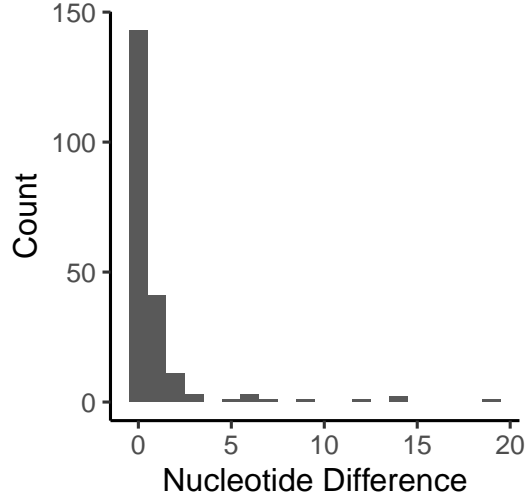
IGHV5–10–1*03

267 sequences assigned
205 (76.8%) exact matches, in which:
205 unique CDR3
6 unique J



IGHV6–1*01

209 sequences assigned
143 (68.4%) exact matches, in which:
143 unique CDR3
6 unique J





Warning – no inferred sequences found.