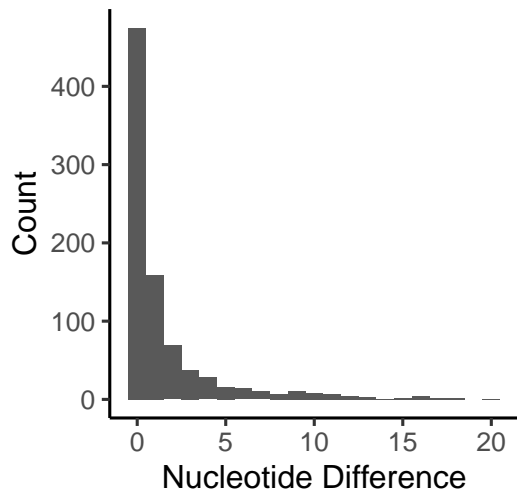


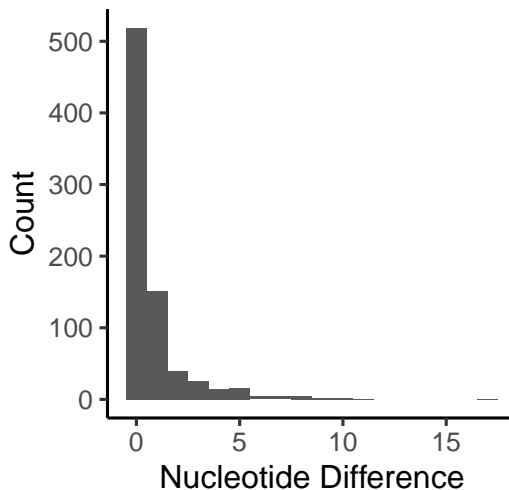
IGHV1-2*02

863 sequences assigned
475 (55%) exact matches, in which:
426 unique CDR3
6 unique J



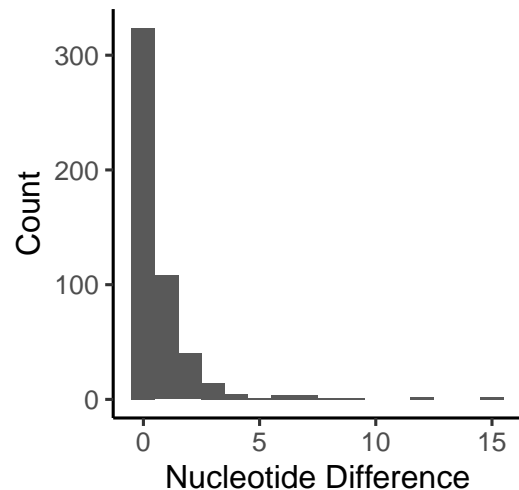
IGHV1-8*01

786 sequences assigned
519 (66%) exact matches, in which:
451 unique CDR3
6 unique J



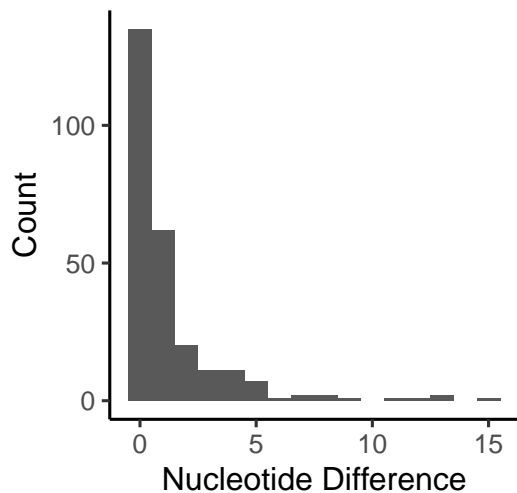
IGHV1-24*01

507 sequences assigned
324 (63.9%) exact matches, in which:
285 unique CDR3
6 unique J



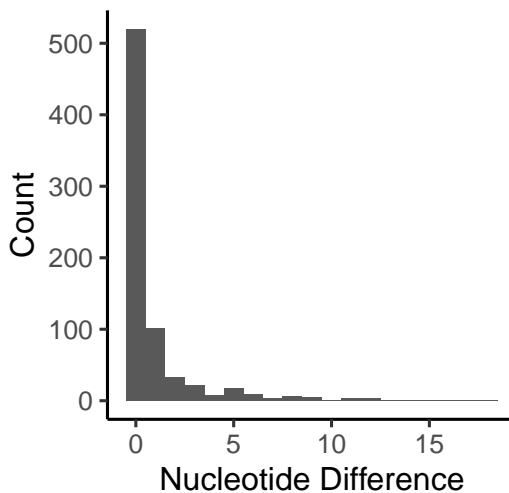
IGHV1-2*04

257 sequences assigned
135 (52.5%) exact matches, in which:
127 unique CDR3
6 unique J



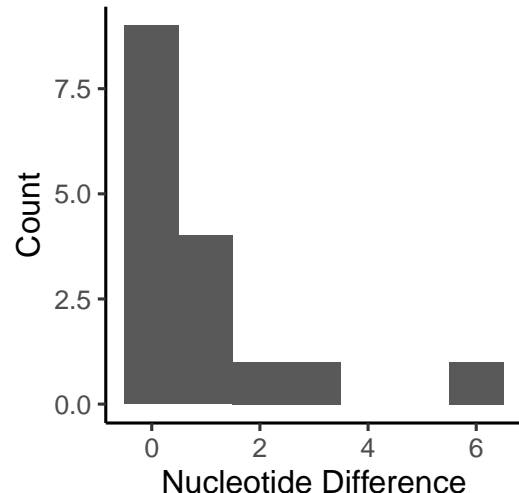
IGHV1-18*01

739 sequences assigned
520 (70.4%) exact matches, in which:
480 unique CDR3
6 unique J



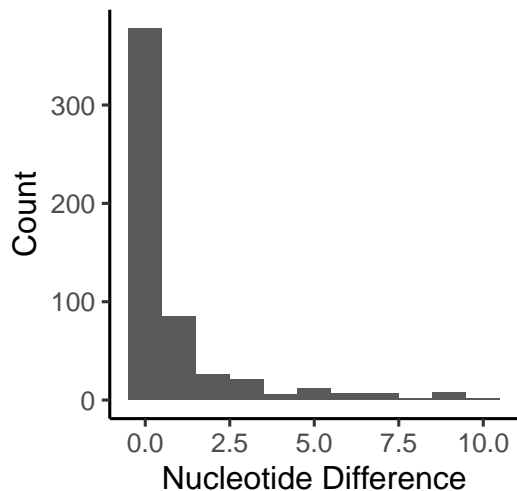
IGHV1-45*02

16 sequences assigned
9 (56.2%) exact matches, in which:
9 unique CDR3
3 unique J



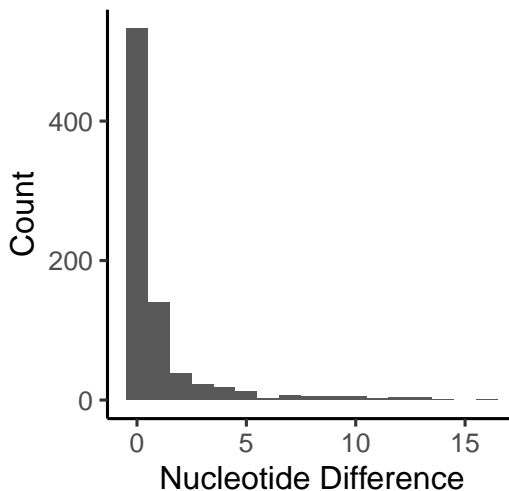
IGHV1-3*01

556 sequences assigned
378 (68%) exact matches, in which:
346 unique CDR3
6 unique J



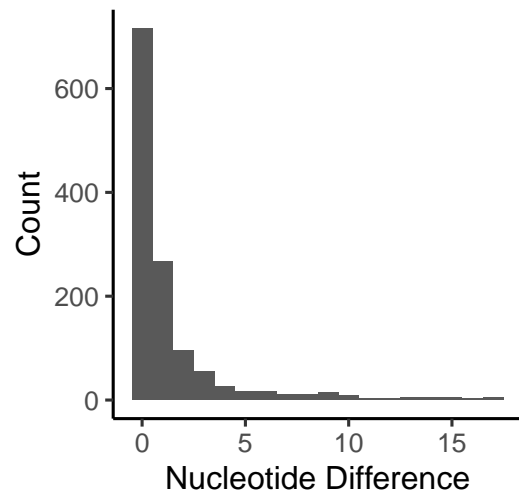
IGHV1-18*04

797 sequences assigned
533 (66.9%) exact matches, in which:
505 unique CDR3
6 unique J



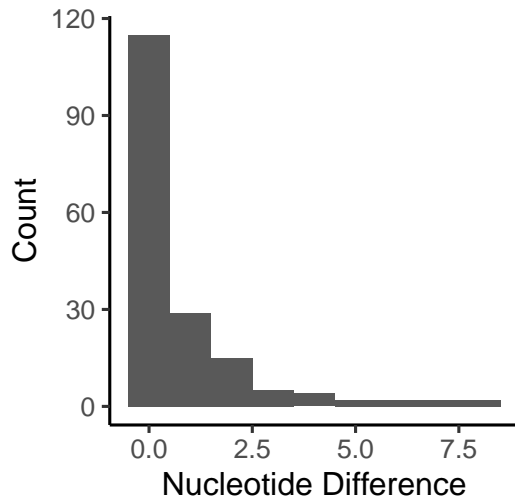
IGHV1-46*01

1263 sequences assigned
716 (56.7%) exact matches, in which:
648 unique CDR3
6 unique J



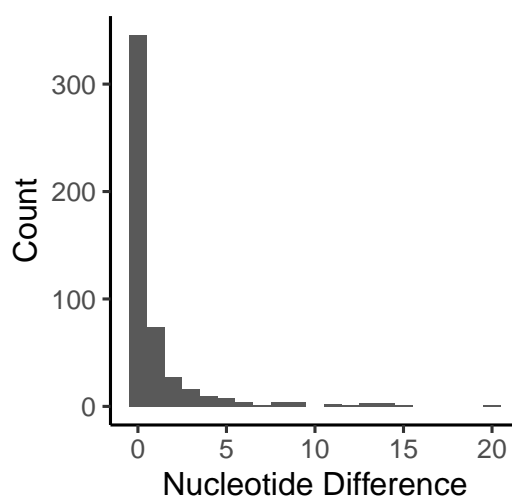
IGHV1–58*01

176 sequences assigned
115 (65.3%) exact matches, in which:
106 unique CDR3
6 unique J



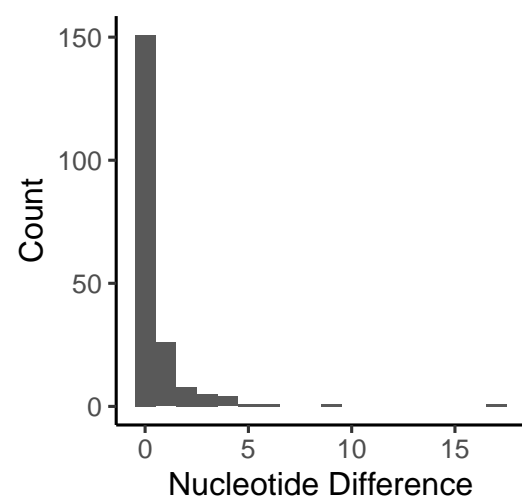
IGHV2–5*01

505 sequences assigned
346 (68.5%) exact matches, in which:
308 unique CDR3
6 unique J



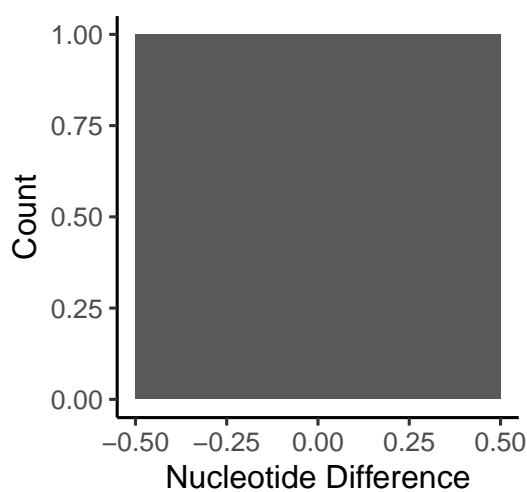
IGHV2–70*01

198 sequences assigned
151 (76.3%) exact matches, in which:
142 unique CDR3
6 unique J



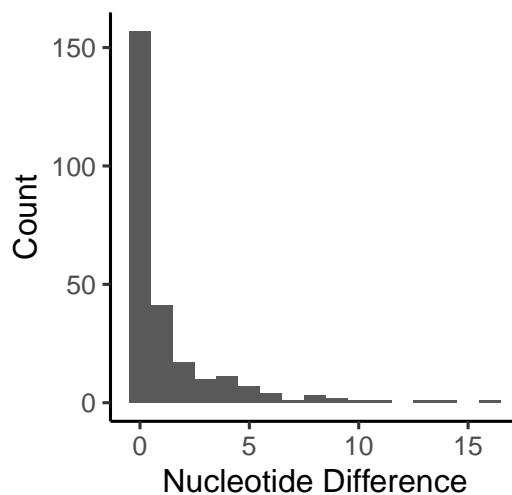
IGHV1–68*01

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



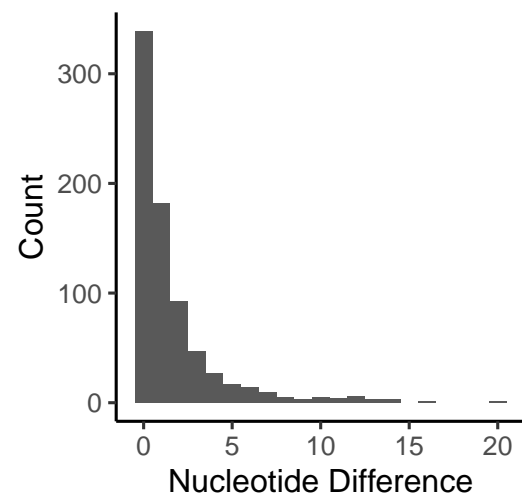
IGHV2–5*02

258 sequences assigned
157 (60.9%) exact matches, in which:
141 unique CDR3
6 unique J



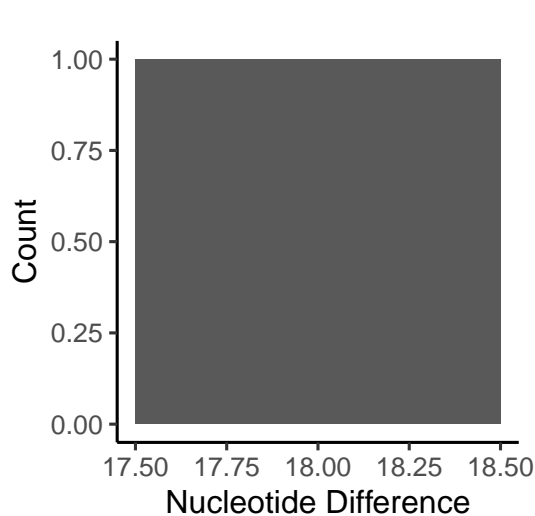
IGHV3–7*01

761 sequences assigned
339 (44.5%) exact matches, in which:
325 unique CDR3
6 unique J



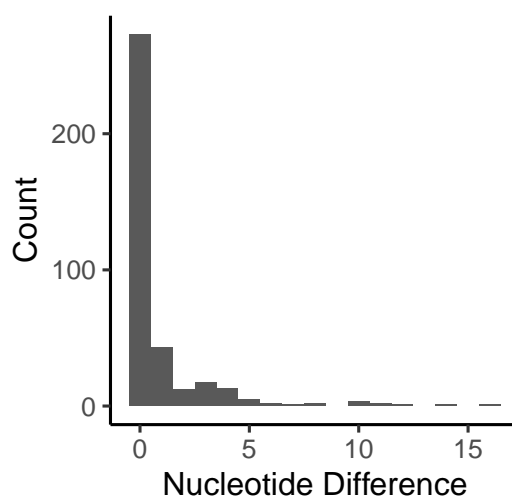
IGHV1–NL1*01

1 sequences assigned
No exact matches.



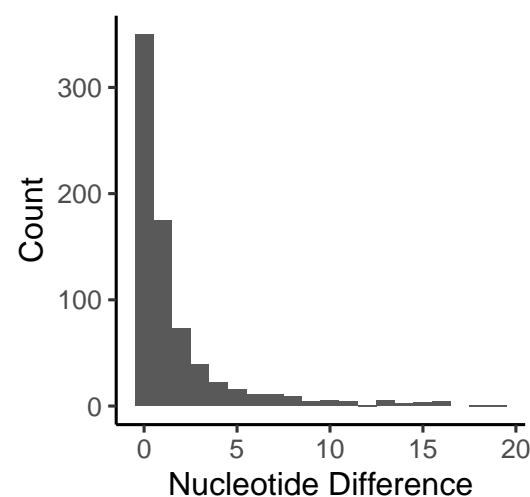
IGHV2–26*01

376 sequences assigned
273 (72.6%) exact matches, in which:
258 unique CDR3
6 unique J



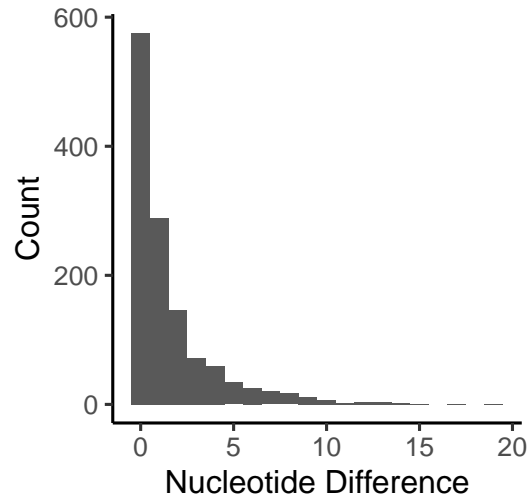
IGHV3–7*03

738 sequences assigned
350 (47.4%) exact matches, in which:
320 unique CDR3
6 unique J



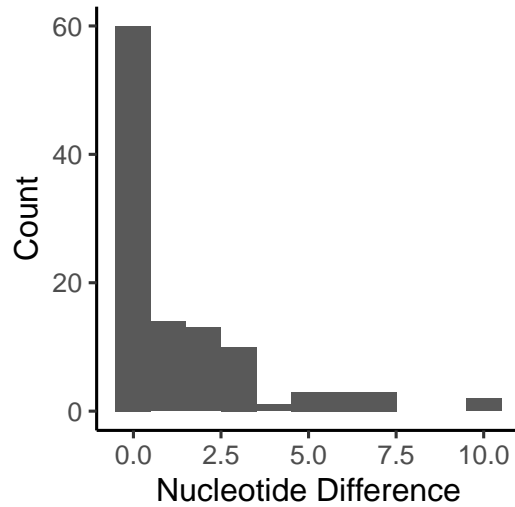
IGHV3-9*01

1274 sequences assigned
576 (45.2%) exact matches, in which:
522 unique CDR3
6 unique J



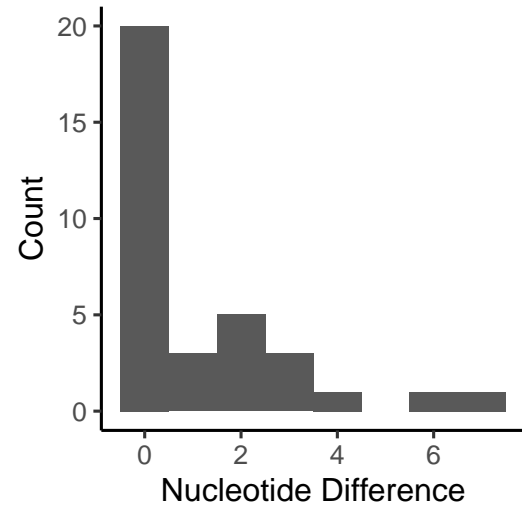
IGHV3-13*01

109 sequences assigned
60 (55%) exact matches, in which:
52 unique CDR3
5 unique J



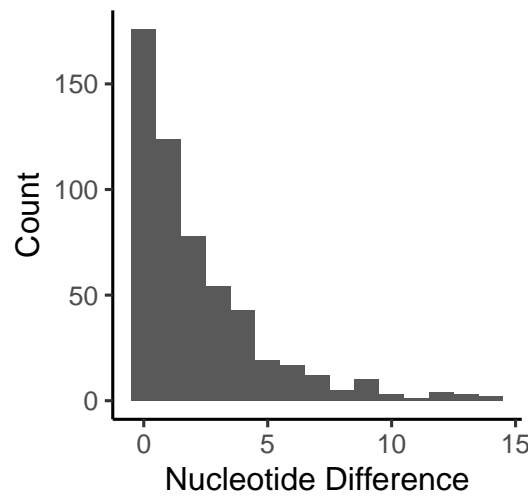
IGHV3-20*01

34 sequences assigned
20 (58.8%) exact matches, in which:
19 unique CDR3
5 unique J



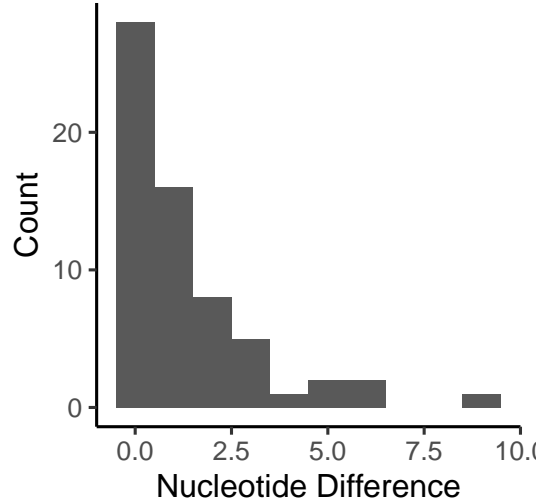
IGHV3-11*01

553 sequences assigned
176 (31.8%) exact matches, in which:
163 unique CDR3
6 unique J



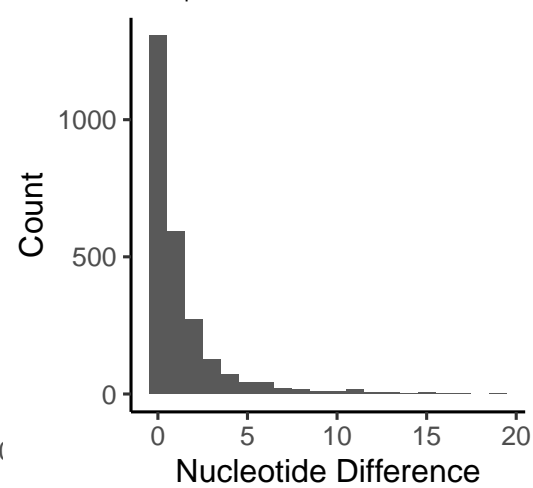
IGHV3-13*05

63 sequences assigned
28 (44.4%) exact matches, in which:
26 unique CDR3
4 unique J



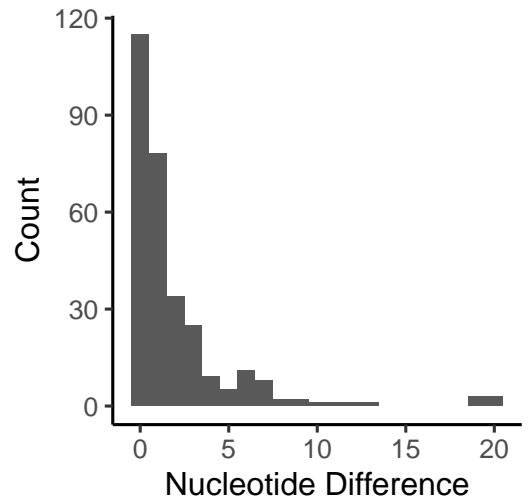
IGHV3-21*01

2547 sequences assigned
1306 (51.3%) exact matches, in which:
1163 unique CDR3
6 unique J



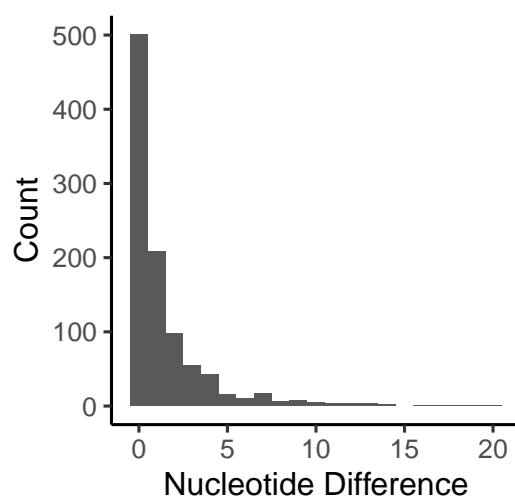
IGHV3-11*06

307 sequences assigned
115 (37.5%) exact matches, in which:
108 unique CDR3
5 unique J



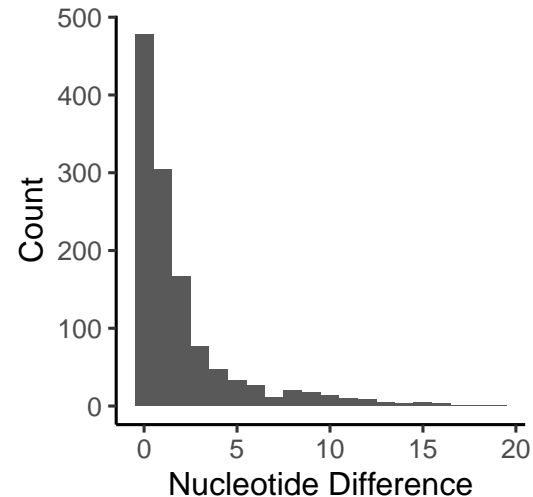
IGHV3-15*01

982 sequences assigned
501 (51%) exact matches, in which:
477 unique CDR3
6 unique J



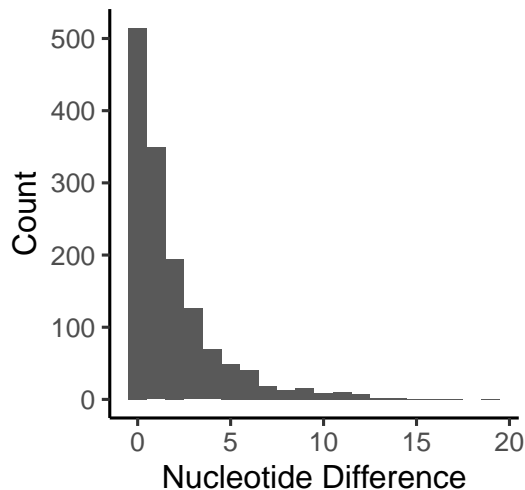
IGHV3-30-3*01

1232 sequences assigned
478 (38.8%) exact matches, in which:
459 unique CDR3
6 unique J



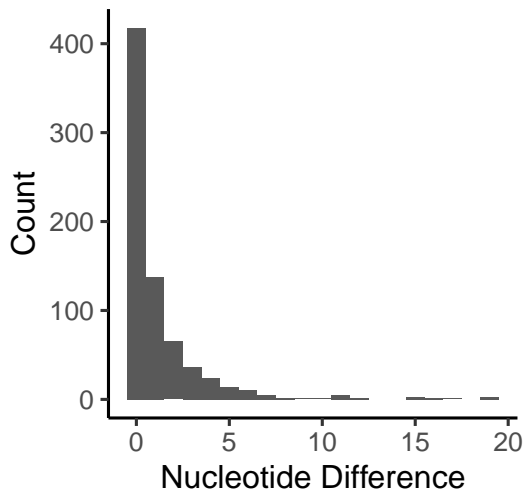
IGHV3–33*01

1428 sequences assigned
515 (36.1%) exact matches, in which:
477 unique CDR3
6 unique J



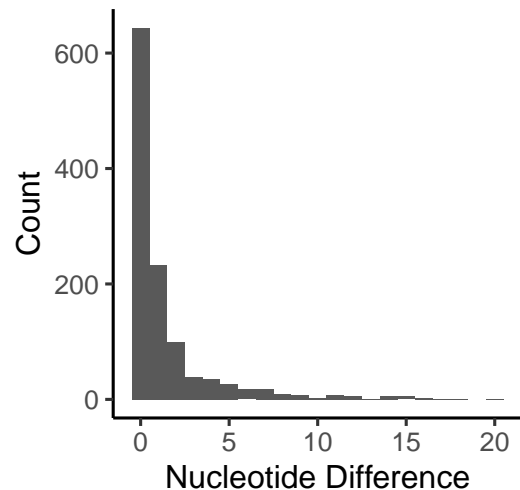
IGHV3–48*02

731 sequences assigned
418 (57.2%) exact matches, in which:
390 unique CDR3
6 unique J



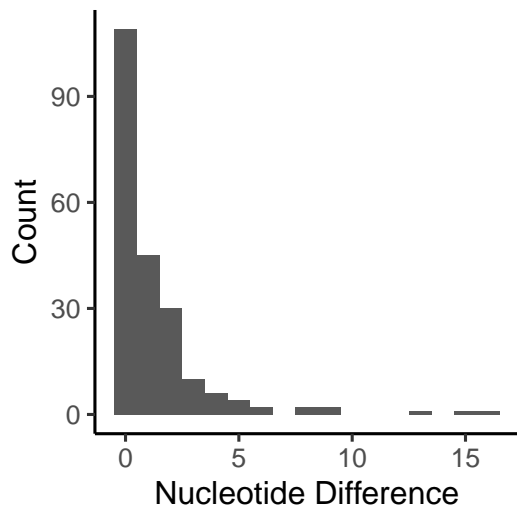
IGHV3–53*01

1162 sequences assigned
644 (55.4%) exact matches, in which:
581 unique CDR3
6 unique J



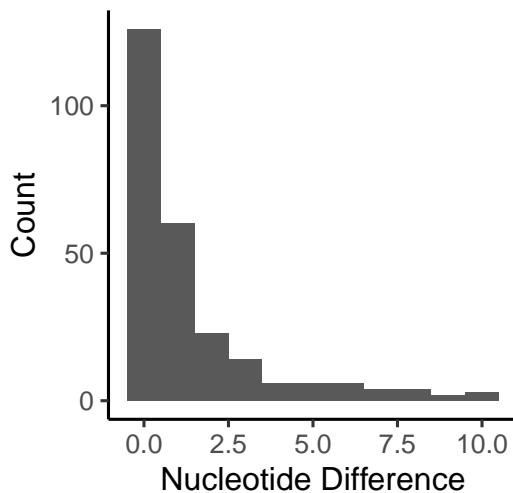
IGHV3–43*01

213 sequences assigned
109 (51.2%) exact matches, in which:
104 unique CDR3
5 unique J



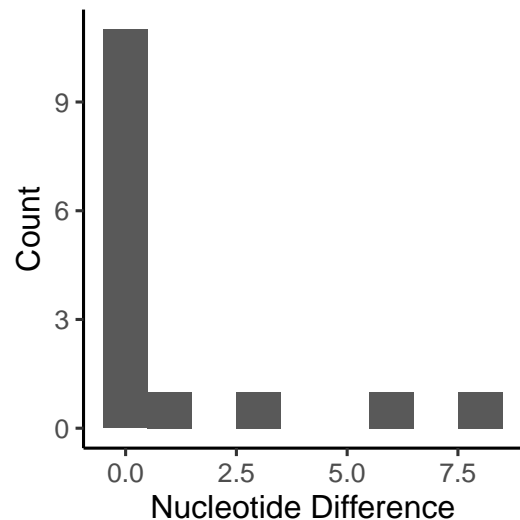
IGHV3–49*03

254 sequences assigned
126 (49.6%) exact matches, in which:
124 unique CDR3
5 unique J



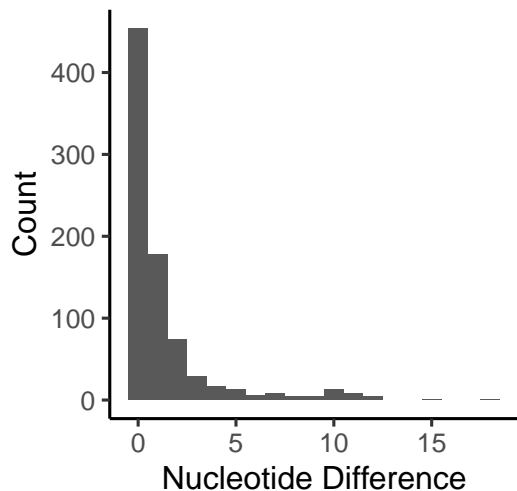
IGHV3–64*02

15 sequences assigned
11 (73.3%) exact matches, in which:
10 unique CDR3
2 unique J



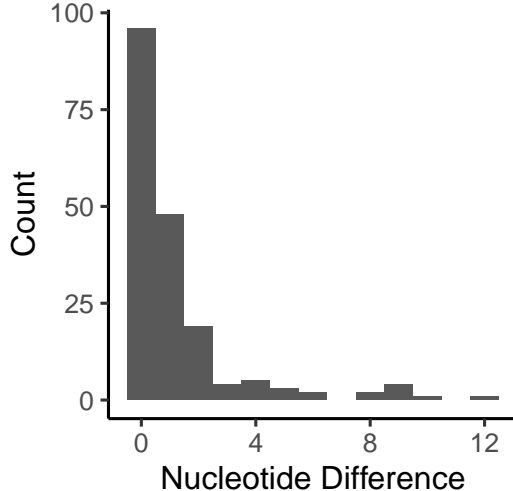
IGHV3–48*01

817 sequences assigned
454 (55.6%) exact matches, in which:
422 unique CDR3
6 unique J



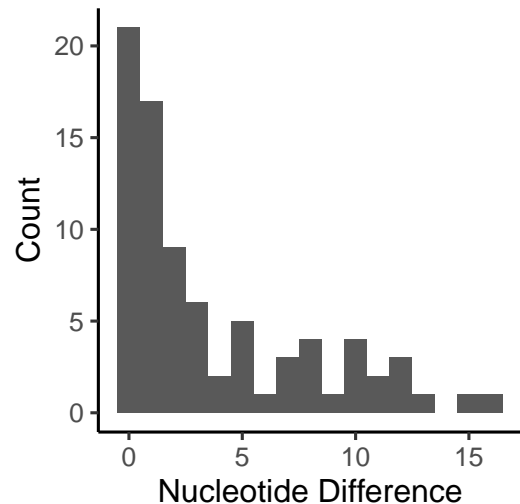
IGHV3–49*05

185 sequences assigned
96 (51.9%) exact matches, in which:
87 unique CDR3
6 unique J



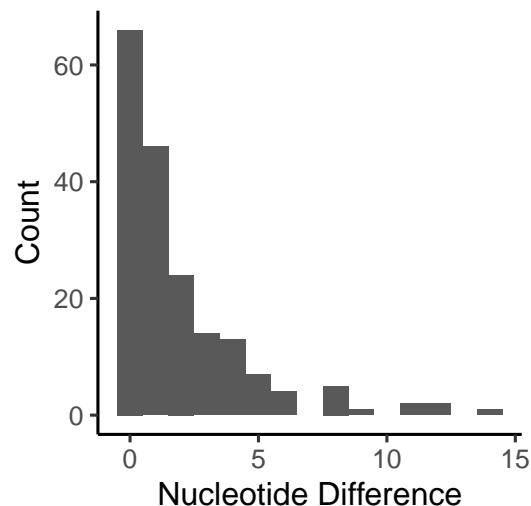
IGHV3–72*01

82 sequences assigned
21 (25.6%) exact matches, in which:
20 unique CDR3
5 unique J



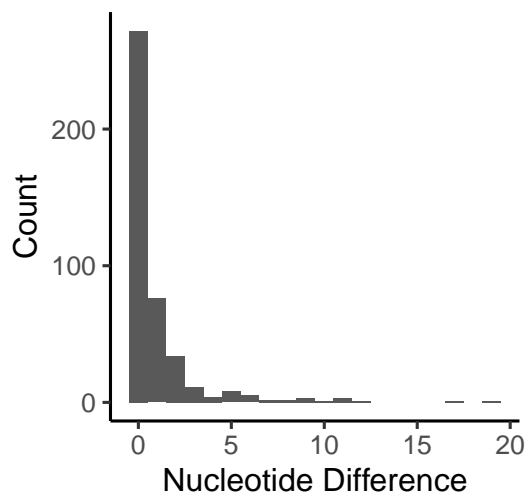
IGHV3-73*02

185 sequences assigned
66 (35.7%) exact matches, in which:
61 unique CDR3
5 unique J



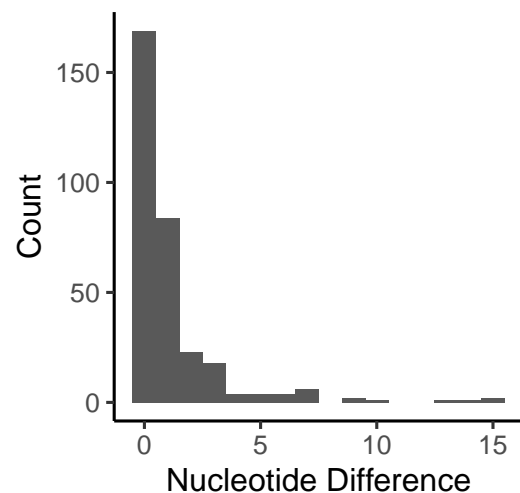
IGHV4-4*02

425 sequences assigned
272 (64%) exact matches, in which:
247 unique CDR3
6 unique J



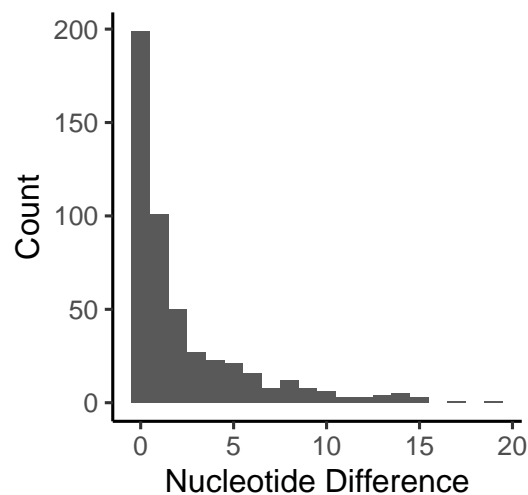
IGHV4-30-2*01

319 sequences assigned
169 (53%) exact matches, in which:
152 unique CDR3
6 unique J



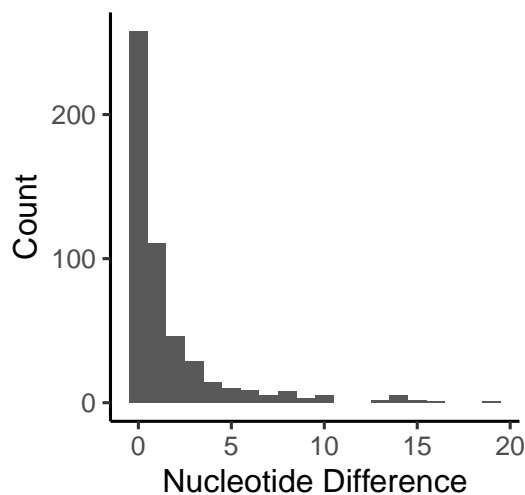
IGHV3-74*01

495 sequences assigned
199 (40.2%) exact matches, in which:
183 unique CDR3
6 unique J



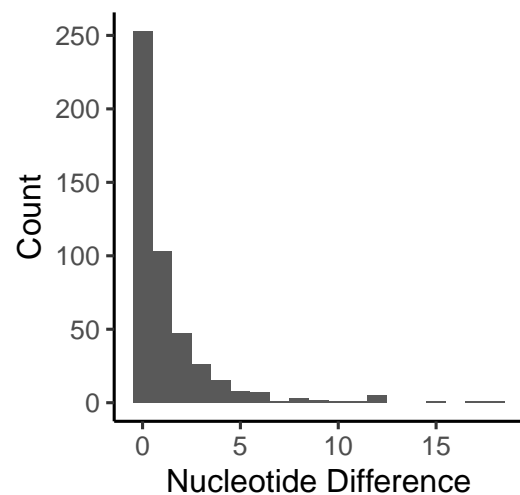
IGHV4-4*07

509 sequences assigned
258 (50.7%) exact matches, in which:
235 unique CDR3
6 unique J



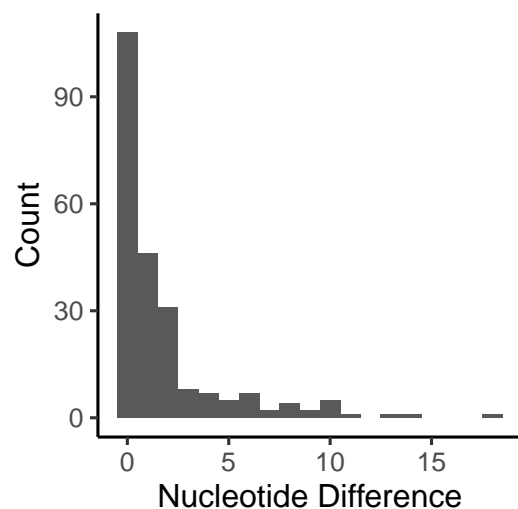
IGHV4-30-4*01

475 sequences assigned
253 (53.3%) exact matches, in which:
227 unique CDR3
6 unique J



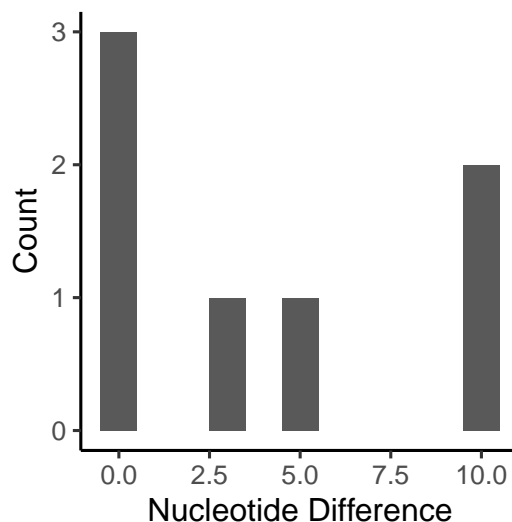
IGHV3-64D*06

231 sequences assigned
108 (46.8%) exact matches, in which:
98 unique CDR3
5 unique J



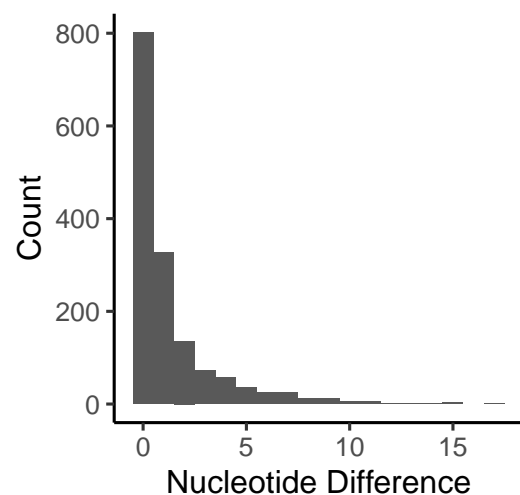
IGHV4-28*01

7 sequences assigned
3 (42.9%) exact matches, in which:
3 unique CDR3
2 unique J



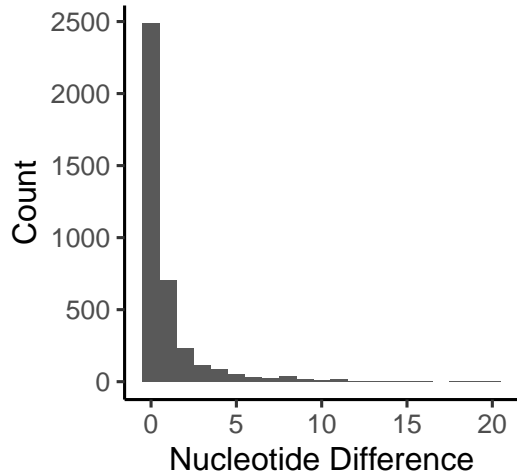
IGHV4-31*03

1526 sequences assigned
802 (52.6%) exact matches, in which:
725 unique CDR3
6 unique J



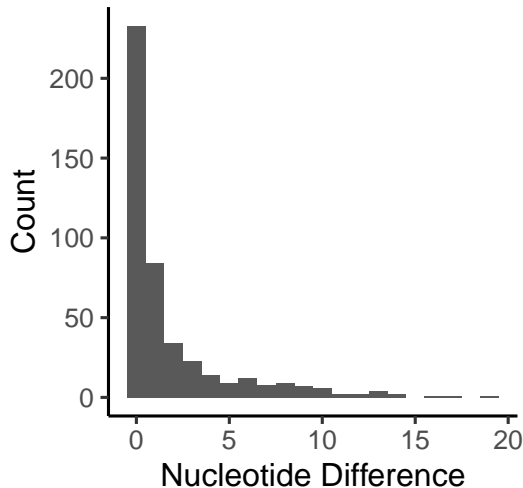
IGHV4-34*01

3846 sequences assigned
2487 (64.7%) exact matches, in which:
2111 unique CDR3
6 unique J



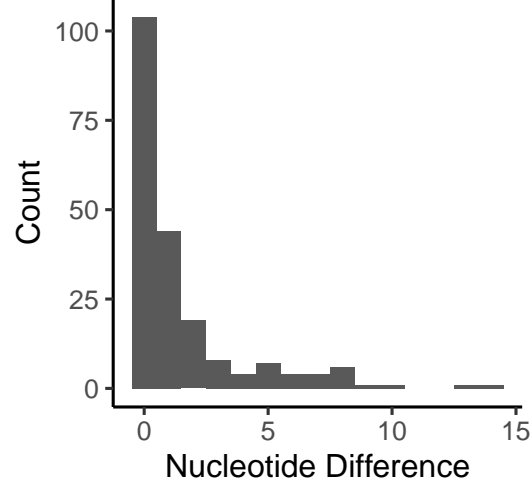
IGHV4-61*01

452 sequences assigned
233 (51.5%) exact matches, in which:
219 unique CDR3
6 unique J



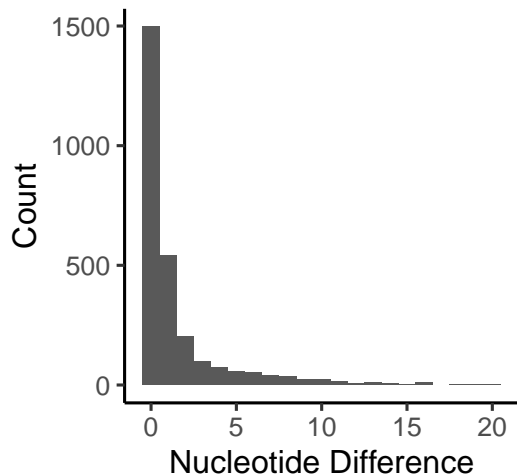
IGHV6-1*01

204 sequences assigned
104 (51%) exact matches, in which:
97 unique CDR3
5 unique J



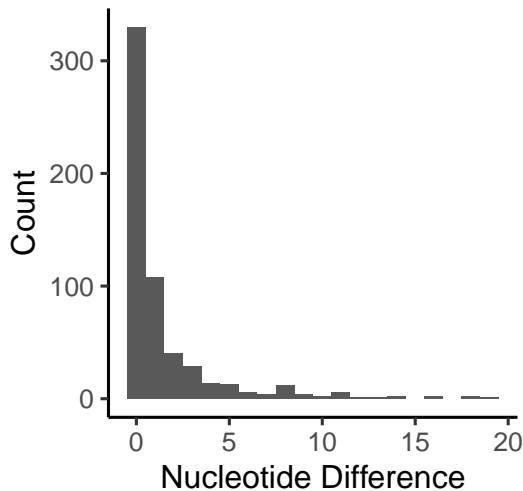
IGHV4-39*01

2712 sequences assigned
1497 (55.2%) exact matches, in which:
1345 unique CDR3
6 unique J



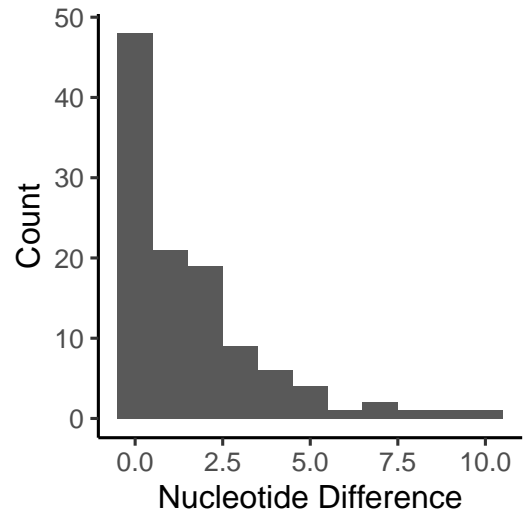
IGHV5-10-1*03

578 sequences assigned
330 (57.1%) exact matches, in which:
299 unique CDR3
6 unique J



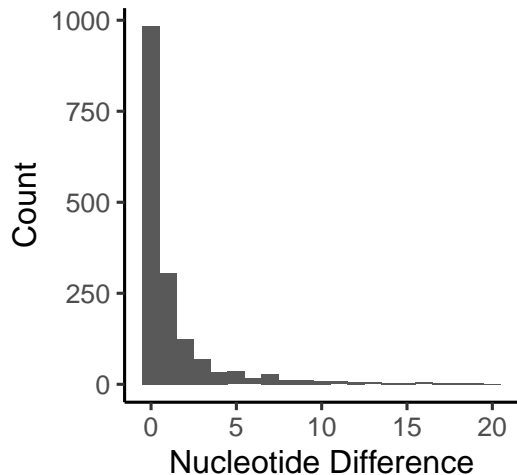
IGHV6-1*01_T91C

113 sequences assigned
48 (42.5%) exact matches, in which:
48 unique CDR3
5 unique J



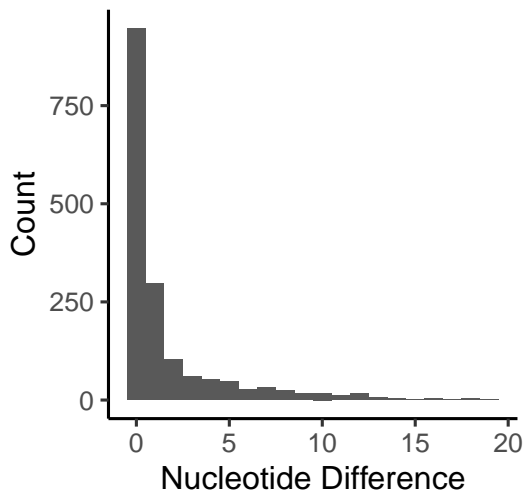
IGHV4-59*01

1673 sequences assigned
984 (58.8%) exact matches, in which:
900 unique CDR3
6 unique J



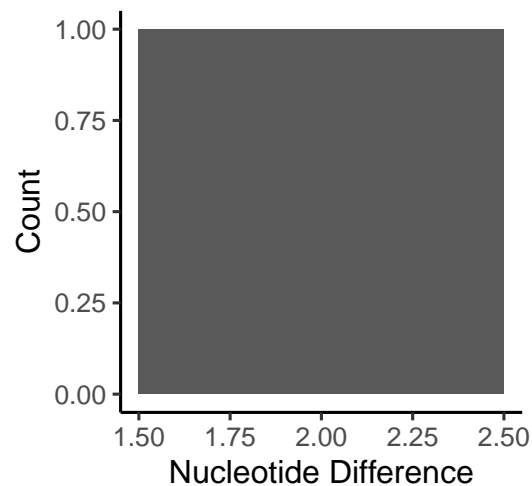
IGHV5-51*01

1676 sequences assigned
947 (56.5%) exact matches, in which:
854 unique CDR3
6 unique J



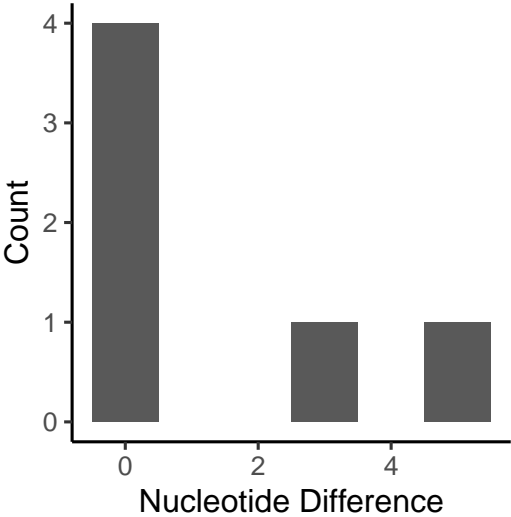
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



IGHV7-4-1*01

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
3 unique J





Warning – no inferred sequences found.