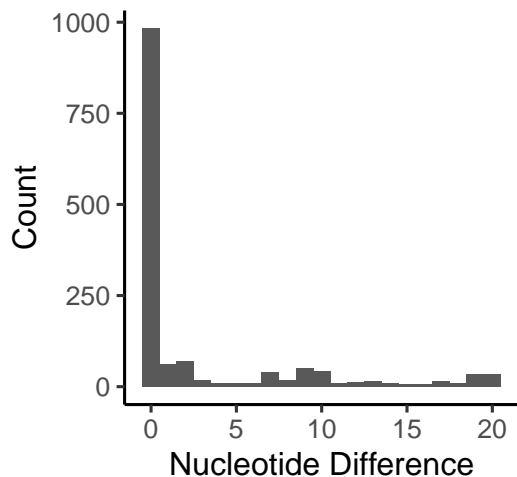


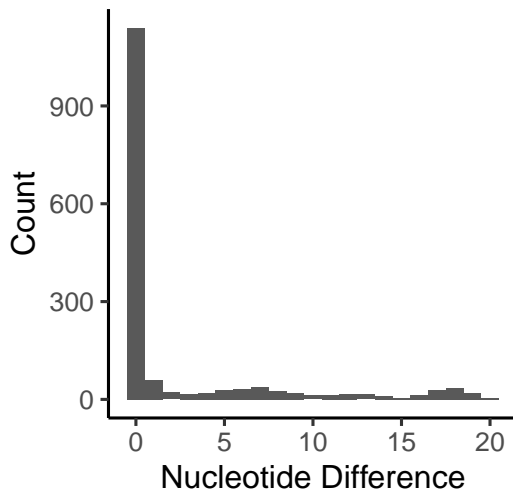
IGHV1-2*02

1651 sequences assigned
983 (59.5%) exact matches, in which:
974 unique CDR3
6 unique J



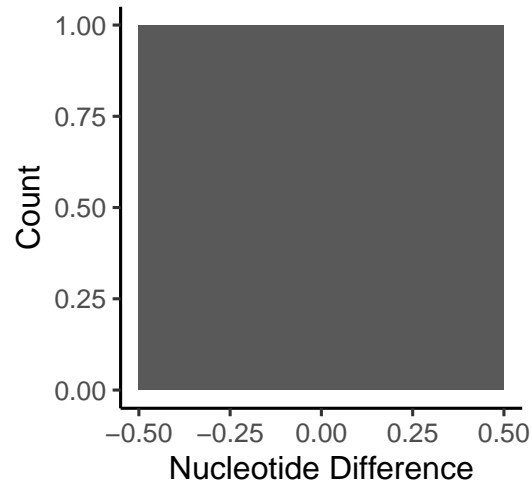
IGHV1-8*01

1667 sequences assigned
1140 (68.4%) exact matches, in which:
1132 unique CDR3
6 unique J



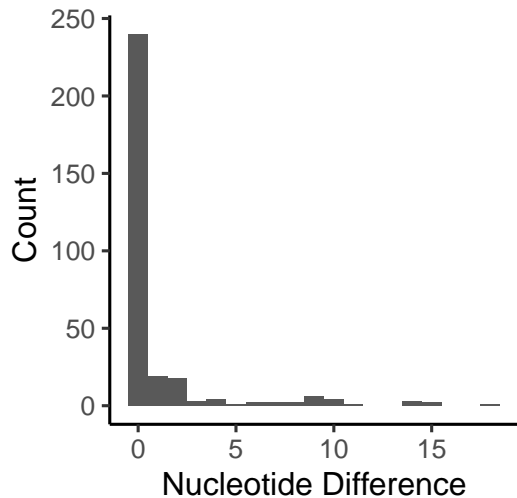
IGHV1-38-4*01

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



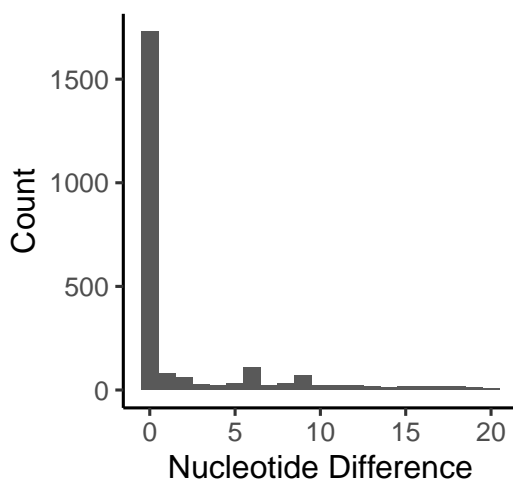
IGHV1-2*04

311 sequences assigned
240 (77.2%) exact matches, in which:
239 unique CDR3
6 unique J



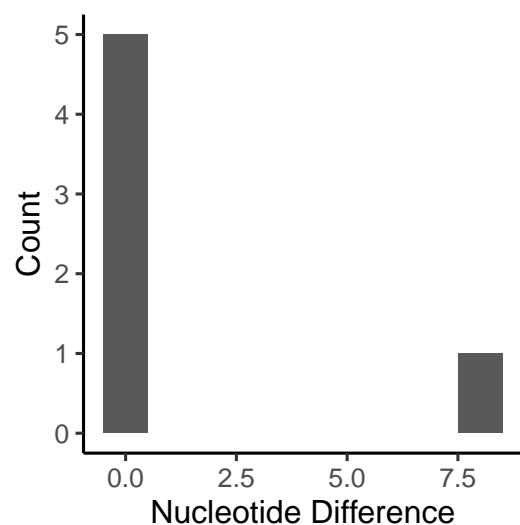
IGHV1-18*01

2732 sequences assigned
1729 (63.3%) exact matches, in which:
1711 unique CDR3
6 unique J



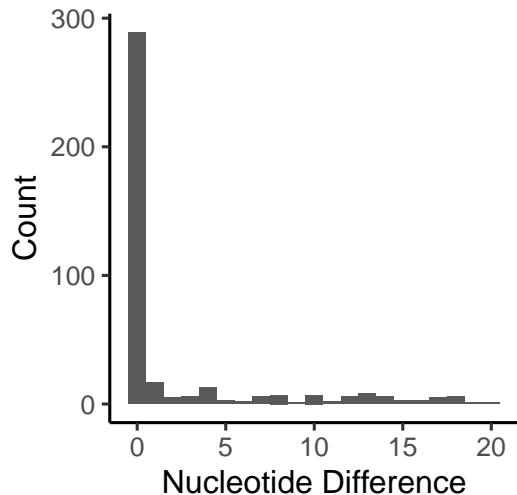
IGHV1-45*02

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
4 unique J



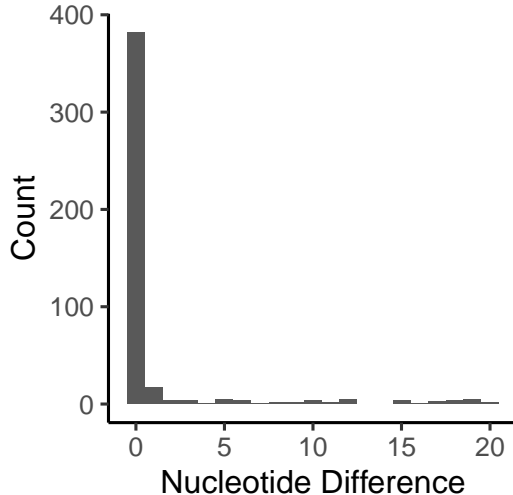
IGHV1-3*01_05

470 sequences assigned
289 (61.5%) exact matches, in which:
288 unique CDR3
6 unique J



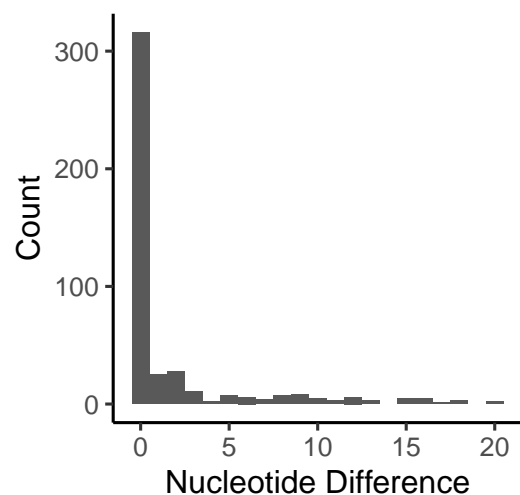
IGHV1-24*01

500 sequences assigned
382 (76.4%) exact matches, in which:
380 unique CDR3
6 unique J



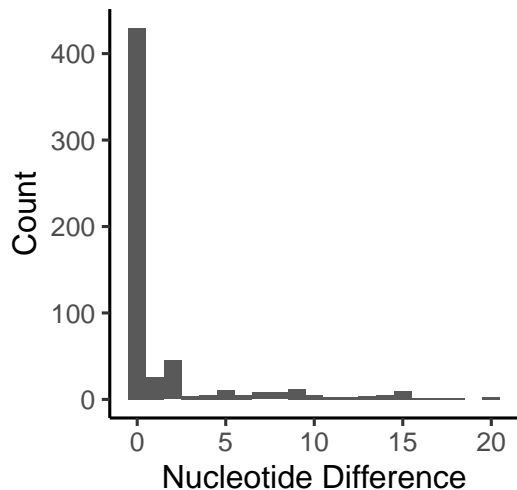
IGHV1-46*01

477 sequences assigned
316 (66.2%) exact matches, in which:
315 unique CDR3
6 unique J



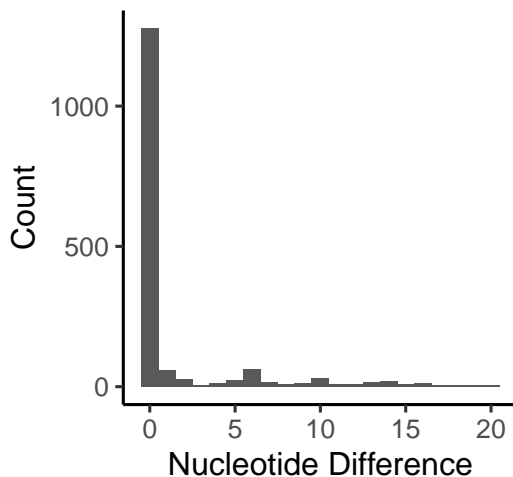
IGHV1-46*04

622 sequences assigned
430 (69.1%) exact matches, in which:
425 unique CDR3
6 unique J



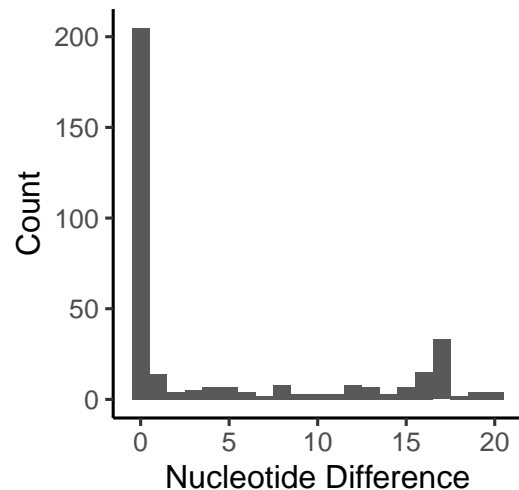
IGHV1-69*04_09

1747 sequences assigned
1277 (73.1%) exact matches, in which:
1268 unique CDR3
6 unique J



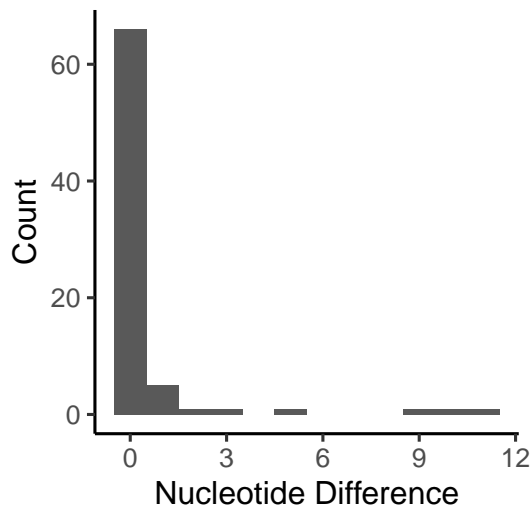
IGHV2-5*02

382 sequences assigned
205 (53.7%) exact matches, in which:
204 unique CDR3
6 unique J



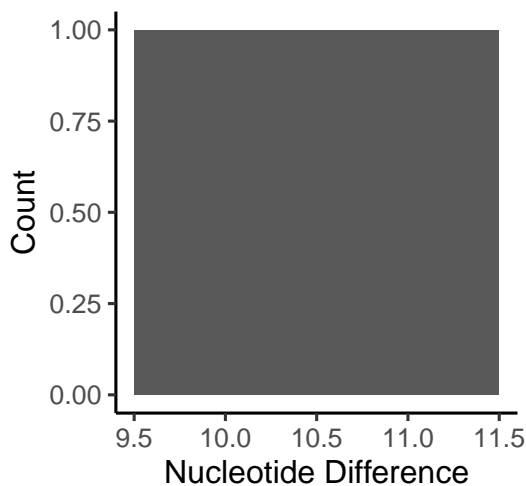
IGHV1-58*02

78 sequences assigned
66 (84.6%) exact matches, in which:
66 unique CDR3
6 unique J



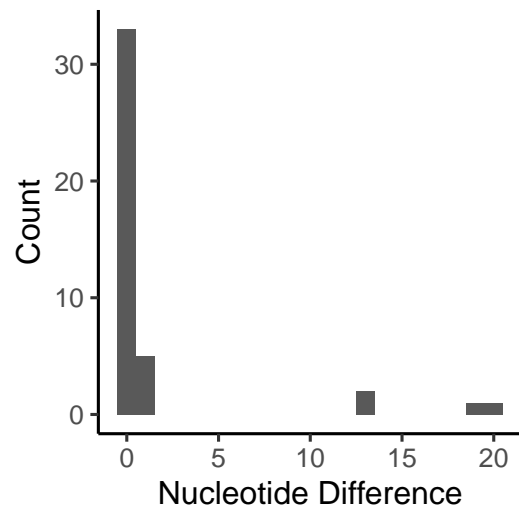
IGHV1-NL1*01

2 sequences assigned
No exact matches.



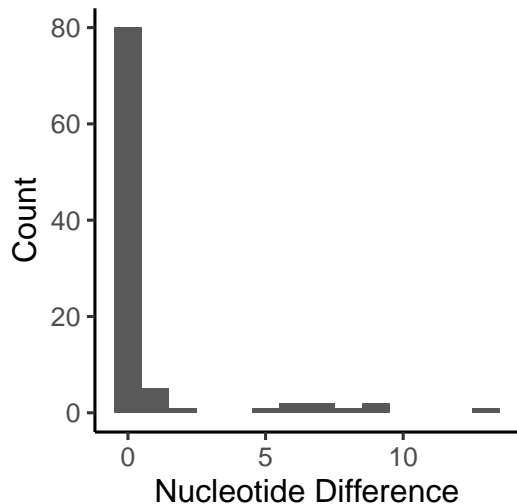
IGHV2-26*01

45 sequences assigned
33 (73.3%) exact matches, in which:
32 unique CDR3
5 unique J



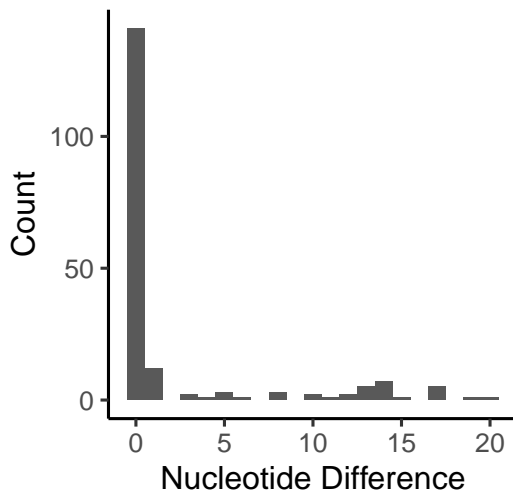
IGHV1-58*01_03

101 sequences assigned
80 (79.2%) exact matches, in which:
79 unique CDR3
6 unique J



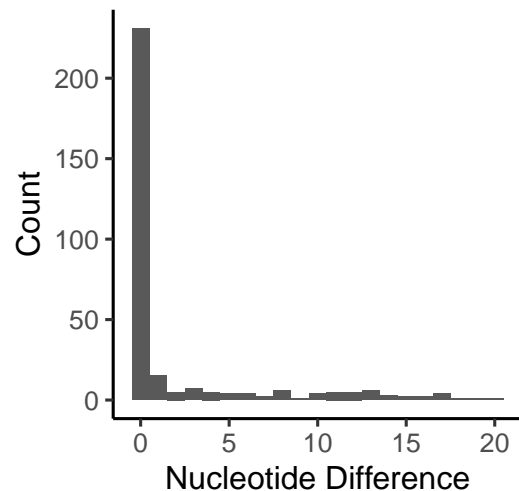
IGHV2-5*01

219 sequences assigned
141 (64.4%) exact matches, in which:
140 unique CDR3
6 unique J



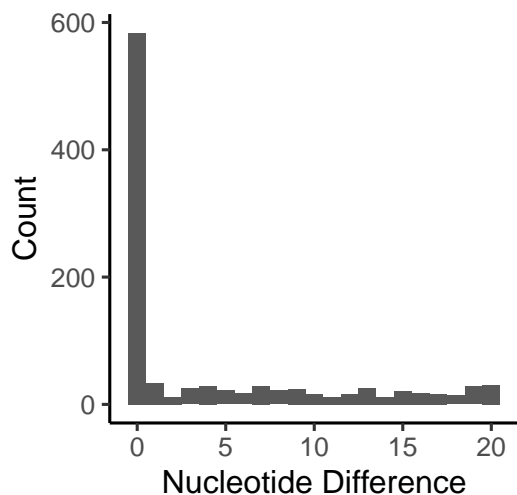
IGHV2-70*11_15

1002 sequences assigned
231 (23.1%) exact matches, in which:
228 unique CDR3
6 unique J



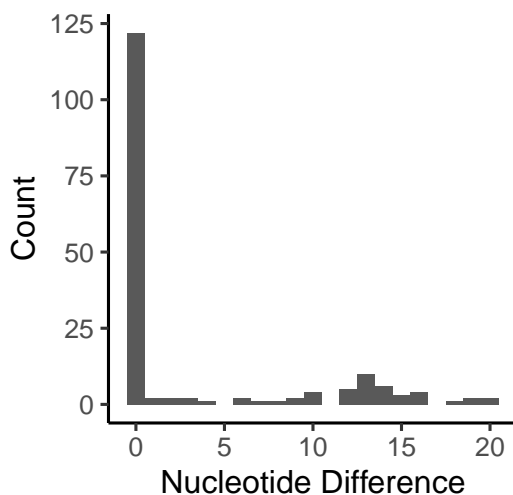
IGHV3-7*01

1336 sequences assigned
584 (43.7%) exact matches, in which:
425 unique CDR3
6 unique J



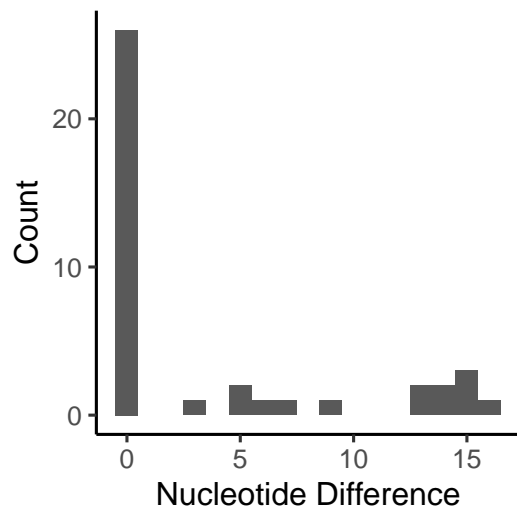
IGHV3-13*01

185 sequences assigned
122 (65.9%) exact matches, in which:
92 unique CDR3
6 unique J



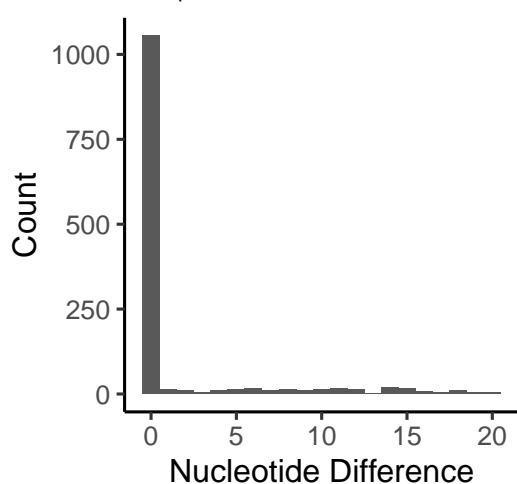
IGHV3-20*01_02

40 sequences assigned
26 (65%) exact matches, in which:
19 unique CDR3
5 unique J



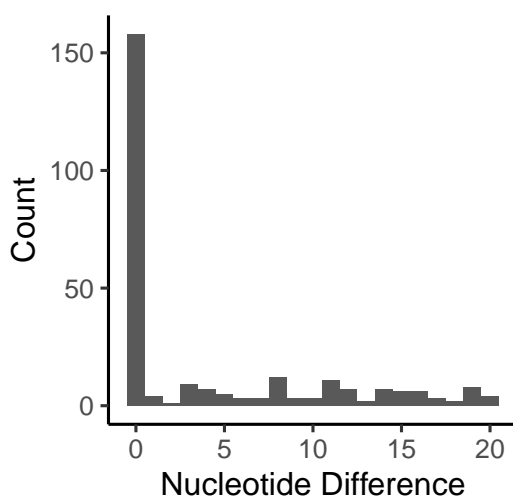
IGHV3-9*01

1367 sequences assigned
1055 (77.2%) exact matches, in which:
761 unique CDR3
6 unique J



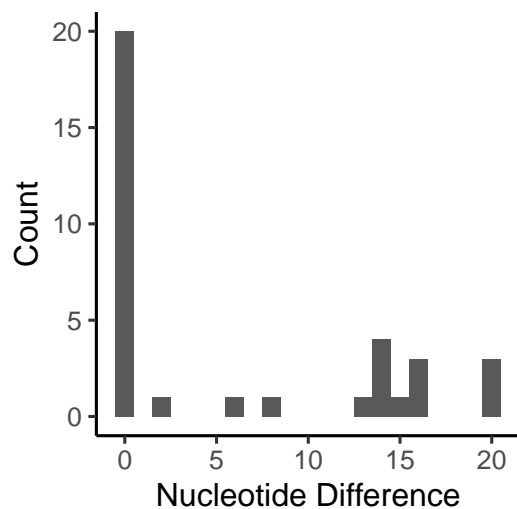
IGHV3-15*07

422 sequences assigned
158 (37.4%) exact matches, in which:
137 unique CDR3
5 unique J



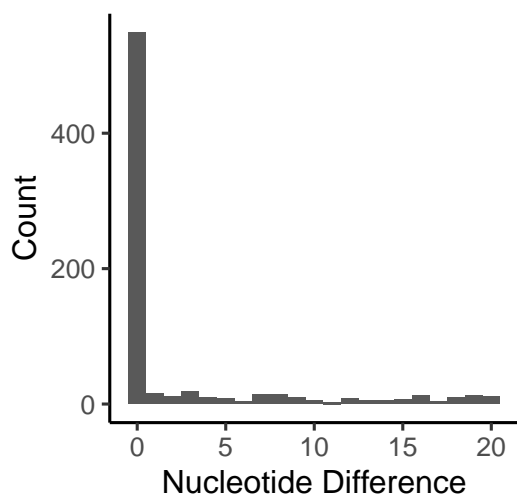
IGHV3-20*03_04

47 sequences assigned
20 (42.6%) exact matches, in which:
15 unique CDR3
4 unique J



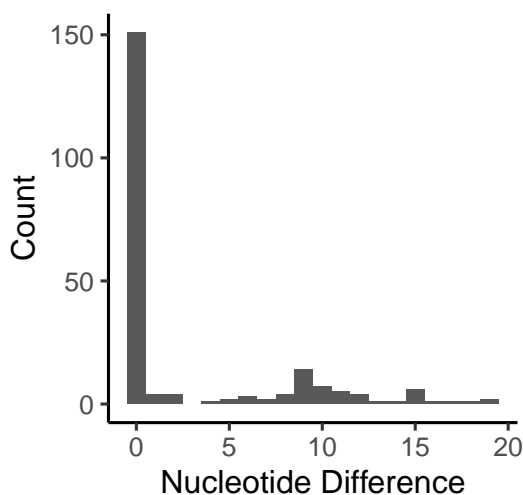
IGHV3-11*01

863 sequences assigned
549 (63.6%) exact matches, in which:
411 unique CDR3
6 unique J



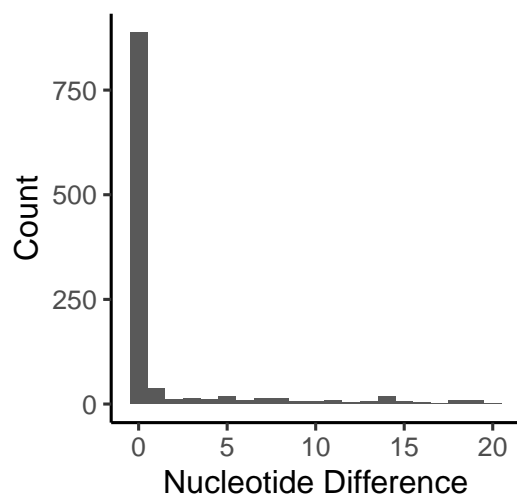
IGHV3-15*01_02

259 sequences assigned
151 (58.3%) exact matches, in which:
124 unique CDR3
6 unique J



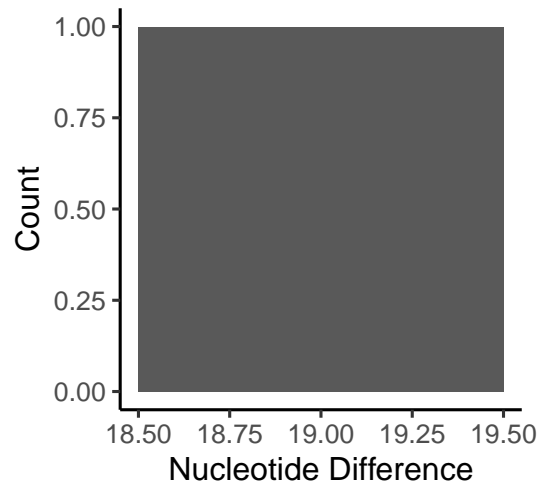
IGHV3-21*01_02

1234 sequences assigned
888 (72%) exact matches, in which:
644 unique CDR3
6 unique J



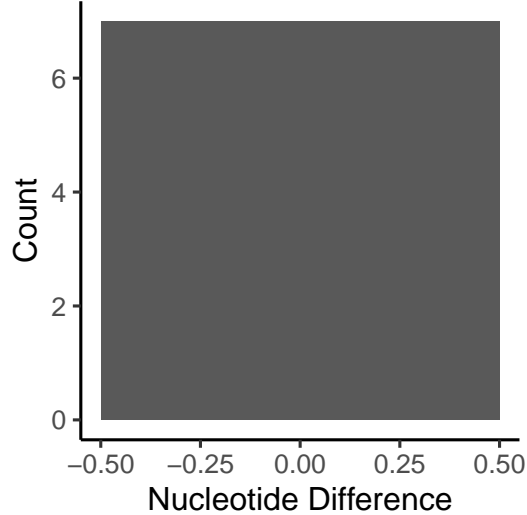
IGHV3-22*01_02

1 sequences assigned
No exact matches.



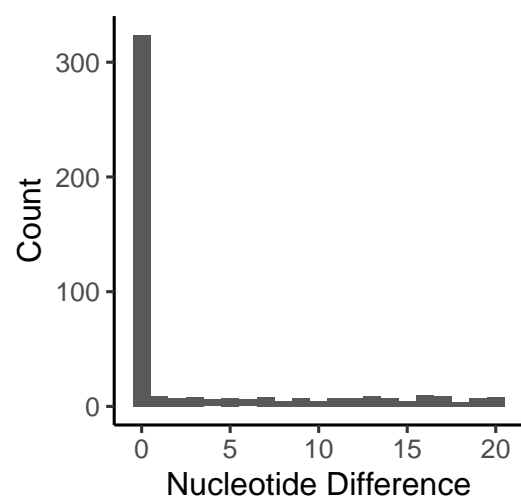
IGHV3-38-3*01

7 sequences assigned
7 (100%) exact matches, in which:
4 unique CDR3
2 unique J



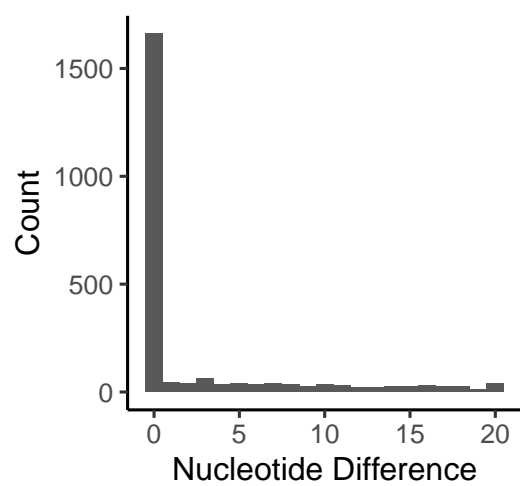
IGHV3-48*01

543 sequences assigned
324 (59.7%) exact matches, in which:
242 unique CDR3
6 unique J



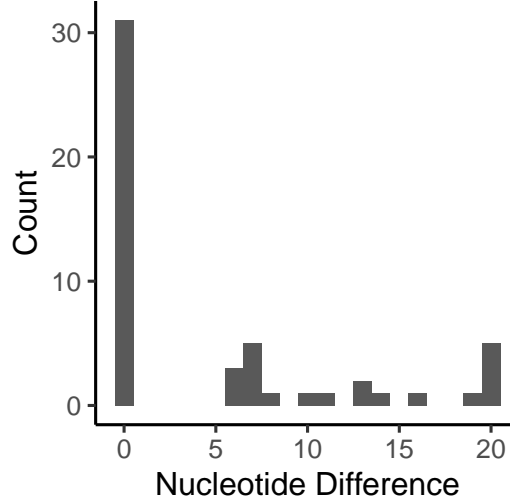
IGHV3-23*01_04

2779 sequences assigned
1661 (59.8%) exact matches, in which:
1202 unique CDR3
6 unique J



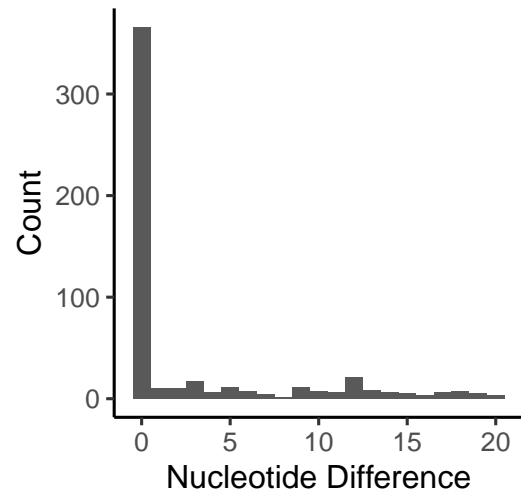
IGHV3-43*01

58 sequences assigned
31 (53.4%) exact matches, in which:
27 unique CDR3
6 unique J



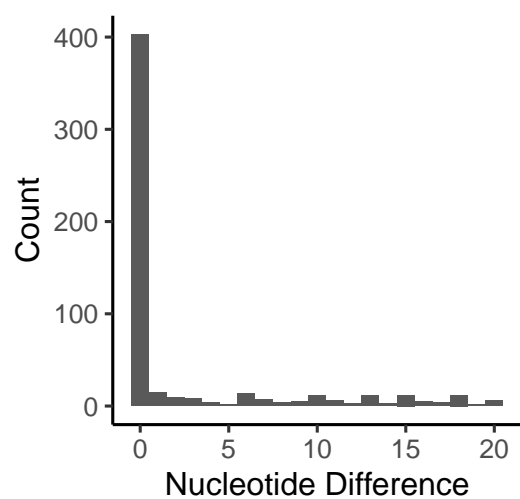
IGHV3-48*03

605 sequences assigned
366 (60.5%) exact matches, in which:
276 unique CDR3
6 unique J



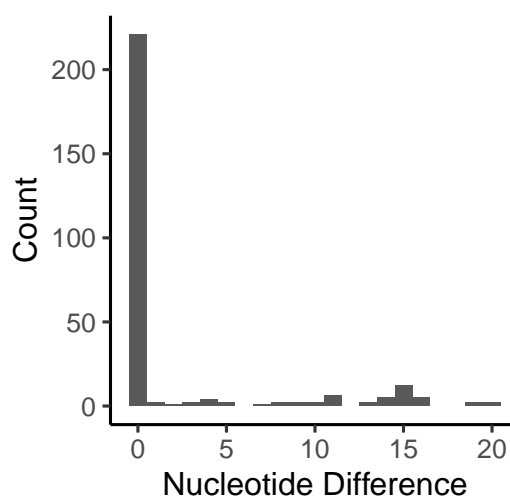
IGHV3-33*08

585 sequences assigned
403 (68.9%) exact matches, in which:
315 unique CDR3
6 unique J



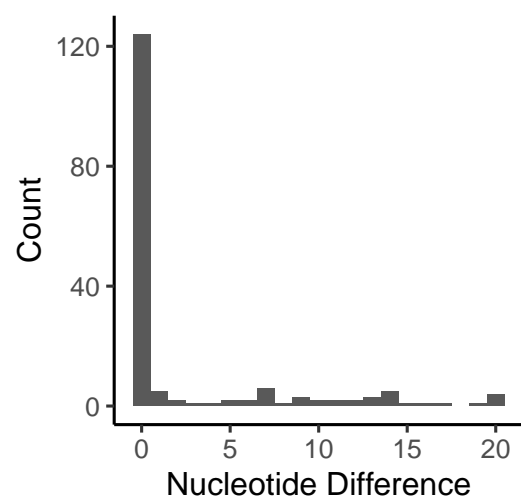
IGHV3-43*02

317 sequences assigned
221 (69.7%) exact matches, in which:
170 unique CDR3
6 unique J



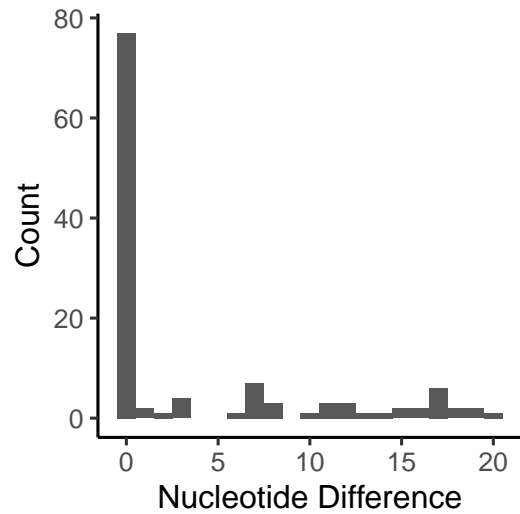
IGHV3-49*04

188 sequences assigned
124 (66%) exact matches, in which:
95 unique CDR3
6 unique J



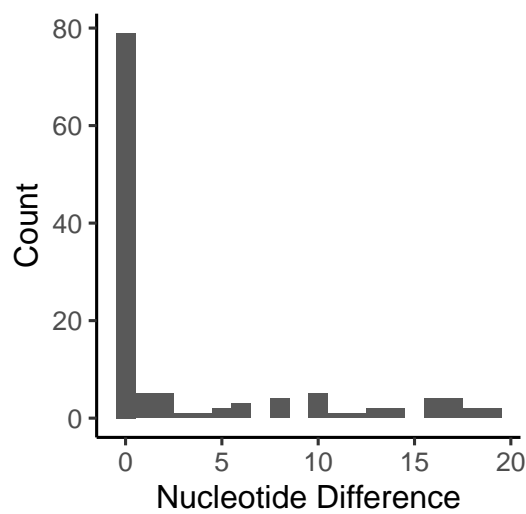
IGHV3-49*03_05

138 sequences assigned
77 (55.8%) exact matches, in which:
62 unique CDR3
5 unique J



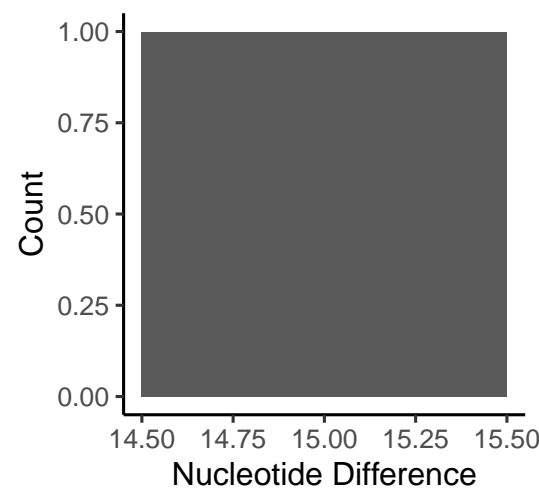
IGHV3-53*01_02

148 sequences assigned
79 (53.4%) exact matches, in which:
58 unique CDR3
5 unique J



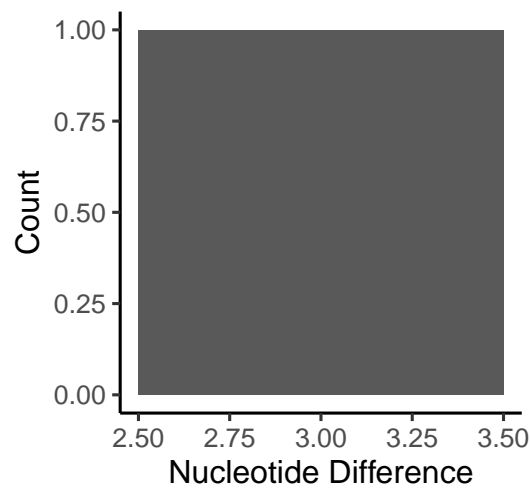
IGHV3-69-1*02

3 sequences assigned
No exact matches.



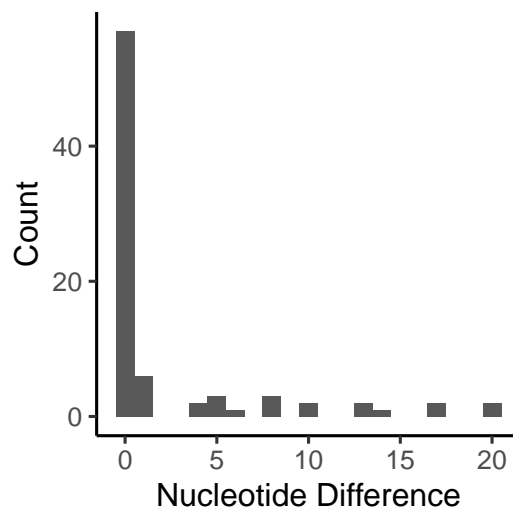
IGHV3-52*01_03

1 sequences assigned
No exact matches.



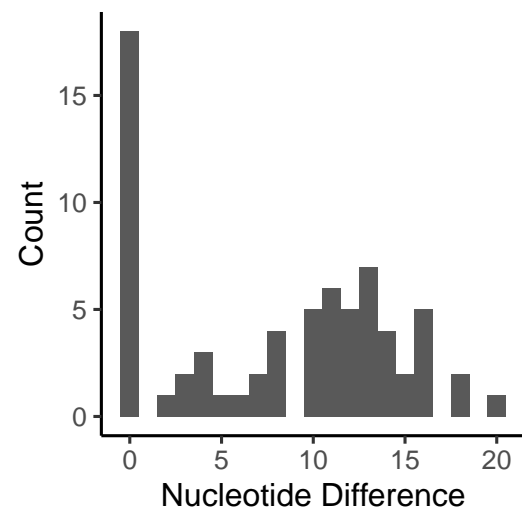
IGHV3-64*01

89 sequences assigned
57 (64%) exact matches, in which:
43 unique CDR3
5 unique J



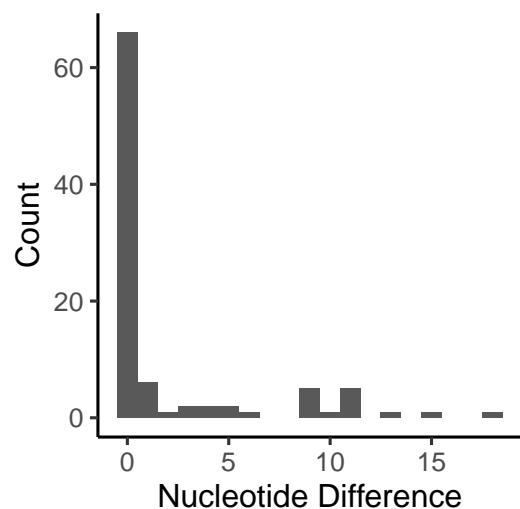
IGHV3-72*01

86 sequences assigned
18 (20.9%) exact matches, in which:
17 unique CDR3
6 unique J



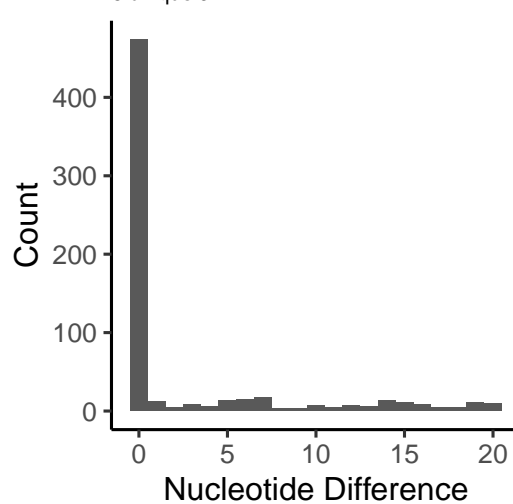
IGHV3-53*04

98 sequences assigned
66 (67.3%) exact matches, in which:
46 unique CDR3
6 unique J



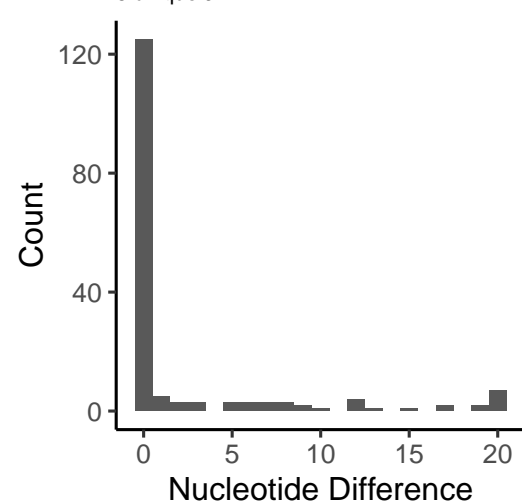
IGHV3-66*01

743 sequences assigned
474 (63.8%) exact matches, in which:
350 unique CDR3
6 unique J



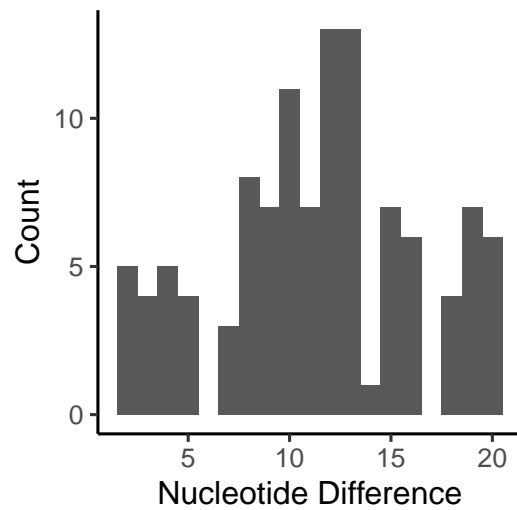
IGHV3-73*01_02

181 sequences assigned
125 (69.1%) exact matches, in which:
96 unique CDR3
5 unique J



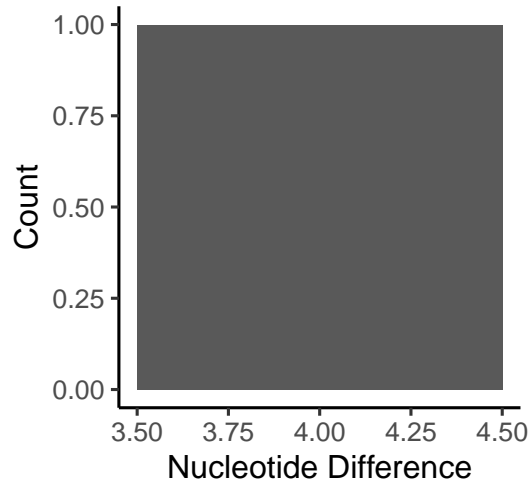
IGHV3–74*03

179 sequences assigned
No exact matches.



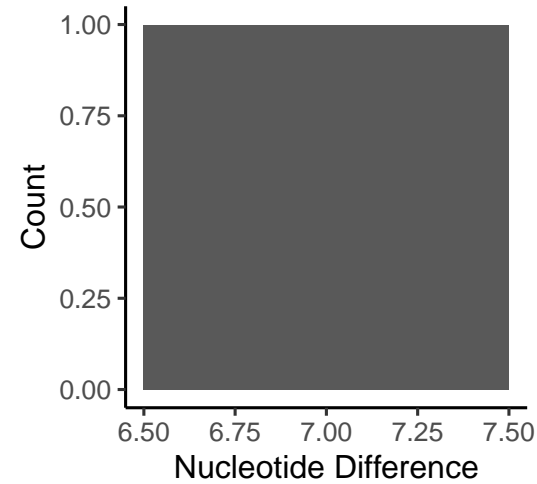
IGHV3–NL1*01

1 sequences assigned
No exact matches.



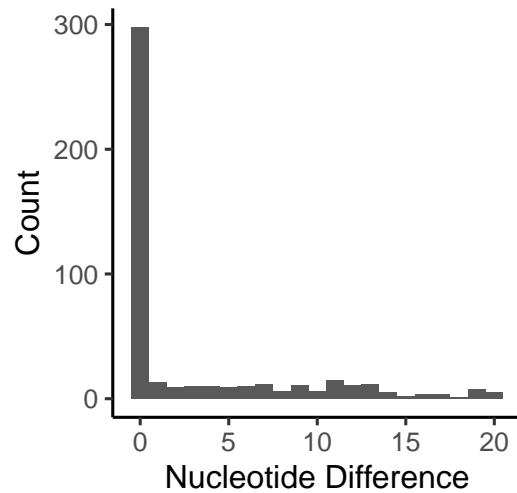
IGHV4–28*03

1 sequences assigned
No exact matches.



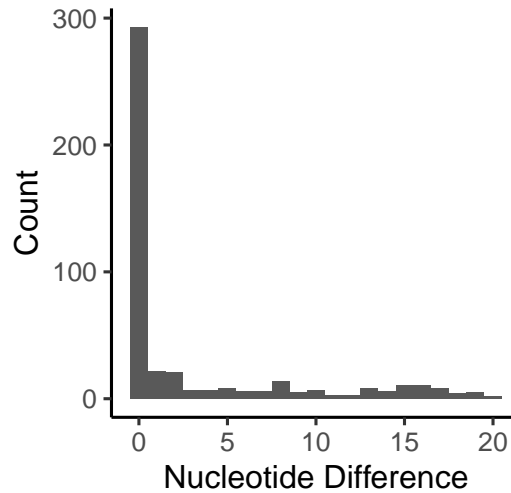
IGHV3–74*01_02

522 sequences assigned
298 (57.1%) exact matches, in which:
212 unique CDR3
6 unique J



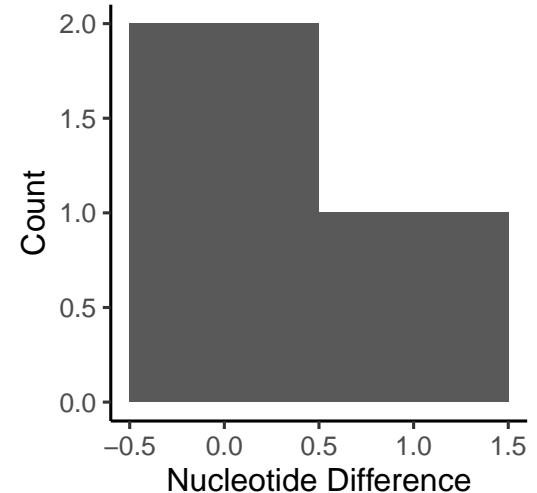
IGHV4–4*07

523 sequences assigned
293 (56%) exact matches, in which:
290 unique CDR3
6 unique J



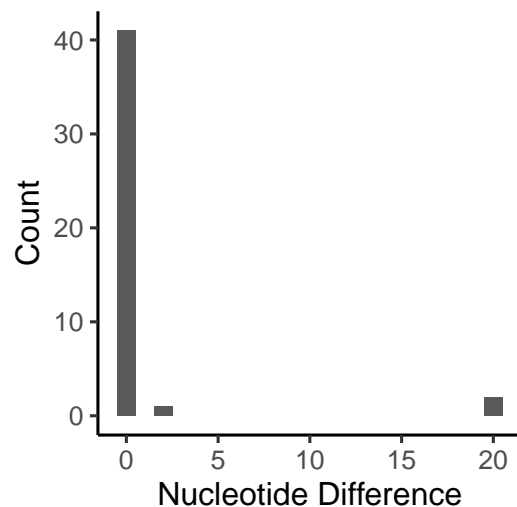
IGHV4–28*01_07

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



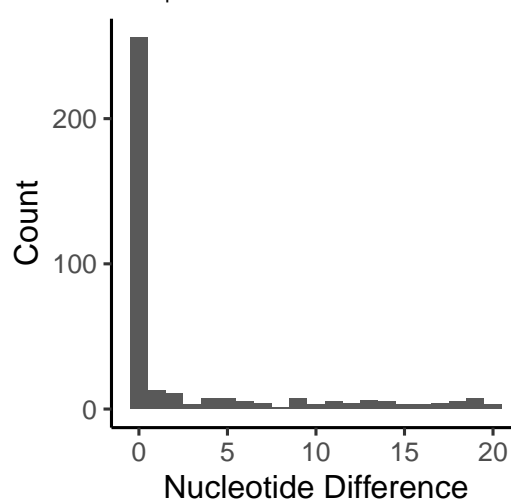
IGHV3–43D*03

47 sequences assigned
41 (87.2%) exact matches, in which:
36 unique CDR3
4 unique J



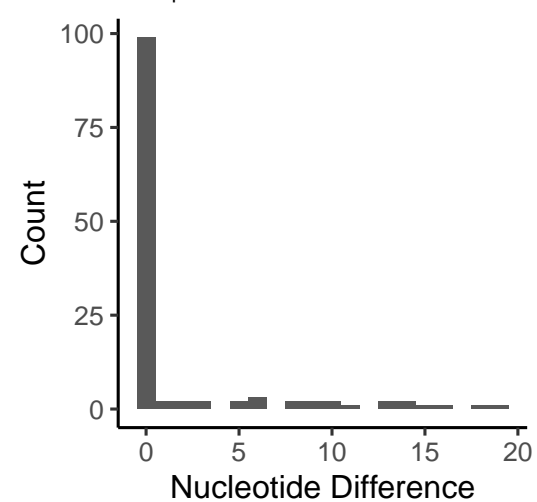
IGHV4–4*02_03

453 sequences assigned
256 (56.5%) exact matches, in which:
247 unique CDR3
6 unique J



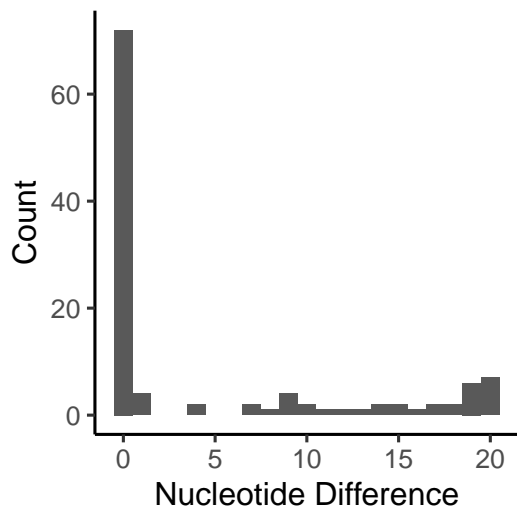
IGHV4–30–2*01

138 sequences assigned
99 (71.7%) exact matches, in which:
93 unique CDR3
5 unique J



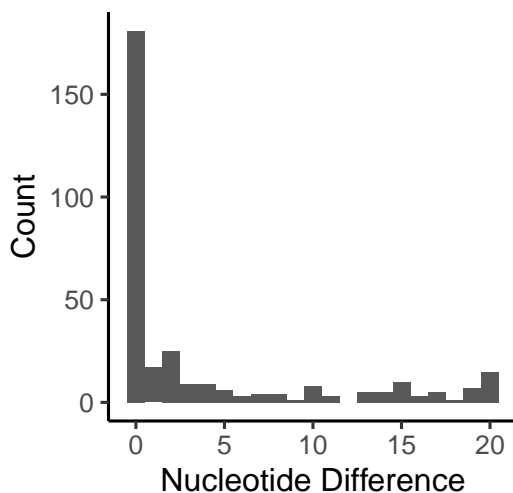
IGHV4-30-4*07

133 sequences assigned
72 (54.1%) exact matches, in which:
69 unique CDR3
5 unique J



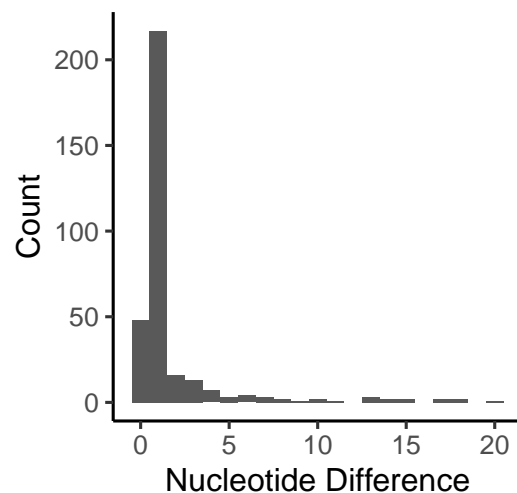
IGHV4-38-2*02

397 sequences assigned
181 (45.6%) exact matches, in which:
181 unique CDR3
6 unique J



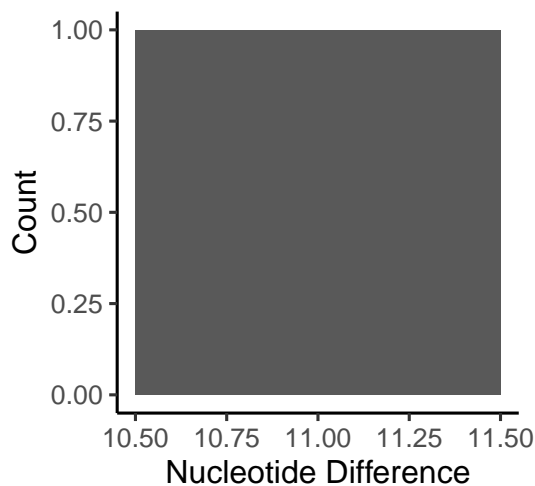
IGHV4-59*12

376 sequences assigned
48 (12.8%) exact matches, in which:
48 unique CDR3
6 unique J



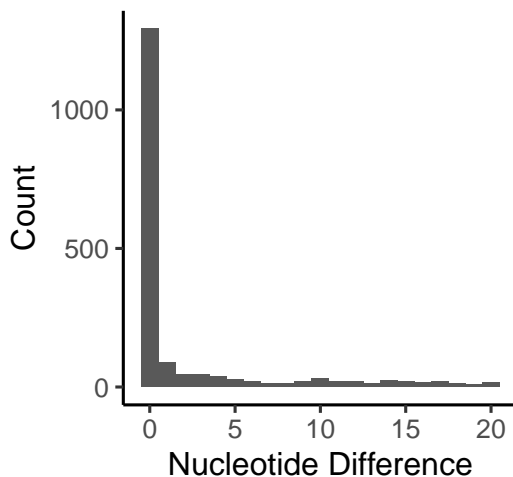
IGHV4-31*02

2 sequences assigned
No exact matches.



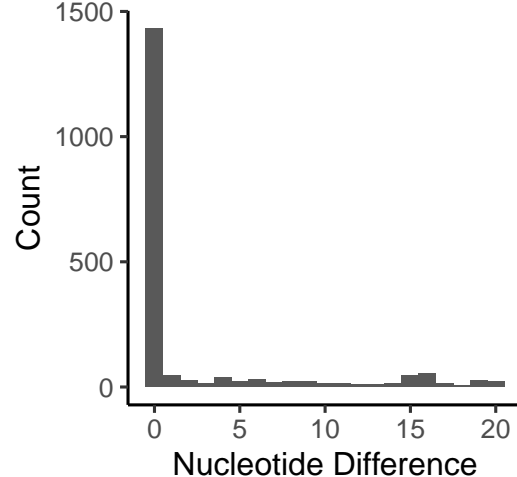
IGHV4-39*02_C258G

2016 sequences assigned
1293 (64.1%) exact matches, in which:
1251 unique CDR3
6 unique J



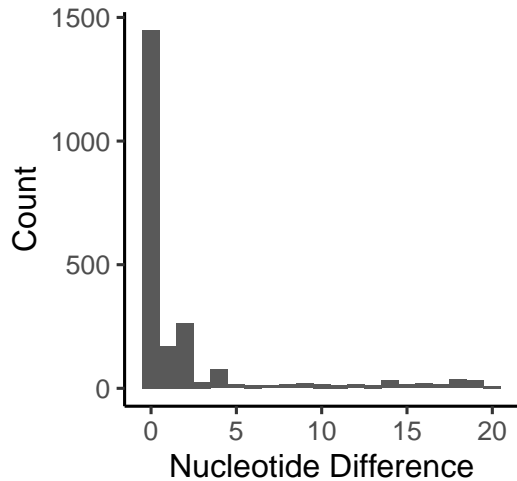
IGHV4-59*02_G88A

3370 sequences assigned
1431 (42.5%) exact matches, in which:
1419 unique CDR3
6 unique J



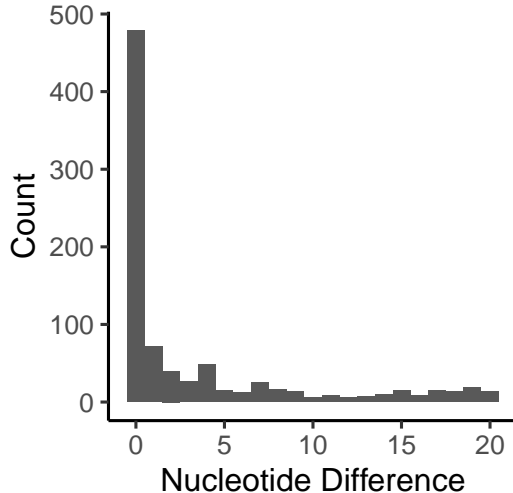
IGHV4-34*01_02

2608 sequences assigned
1449 (55.6%) exact matches, in which:
1419 unique CDR3
6 unique J



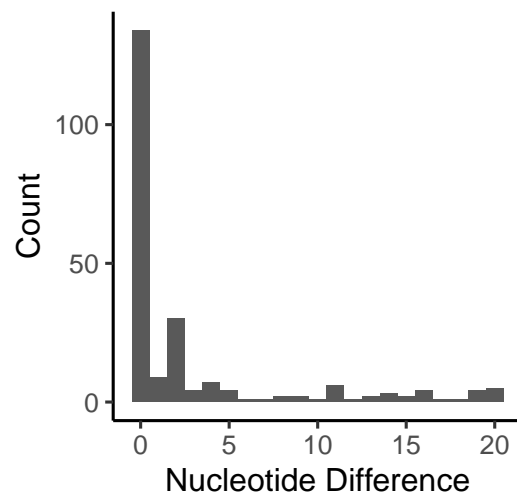
IGHV4-59*08

1032 sequences assigned
479 (46.4%) exact matches, in which:
474 unique CDR3
6 unique J



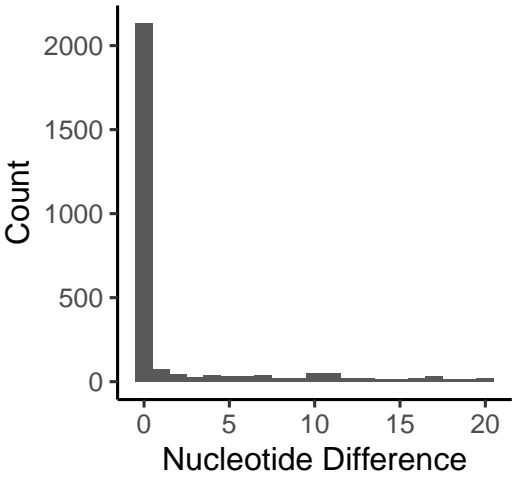
IGHV4-61*01

320 sequences assigned
134 (41.9%) exact matches, in which:
134 unique CDR3
5 unique J



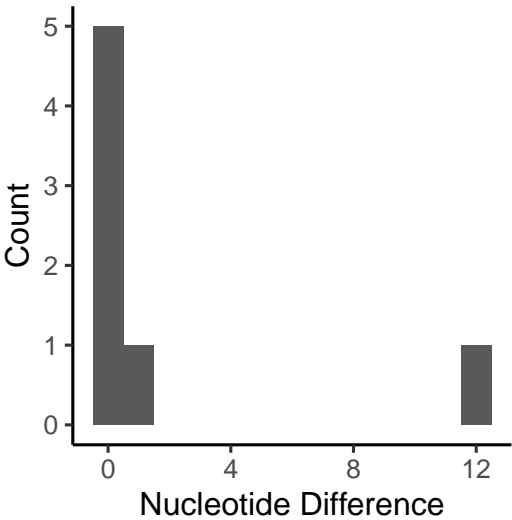
IGHV5-51*07_A128G

2854 sequences assigned
2132 (74.7%) exact matches, in which:
1482 unique CDR3
6 unique J



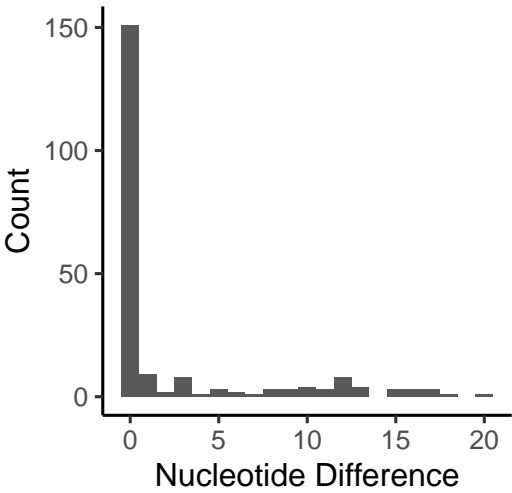
IGHV7-4-1*01

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



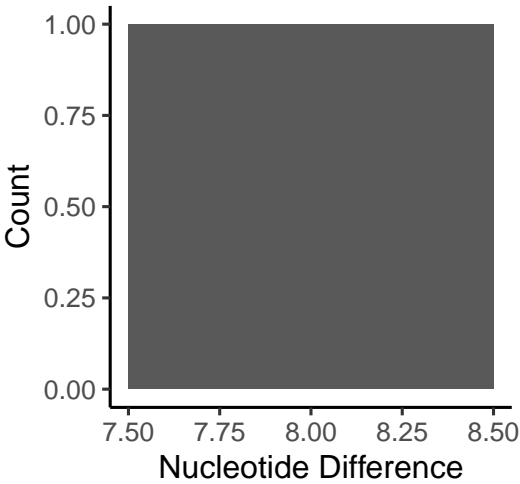
IGHV6-1*01_02

236 sequences assigned
151 (64%) exact matches, in which:
151 unique CDR3
5 unique J



IGHV3/OR16-9*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.