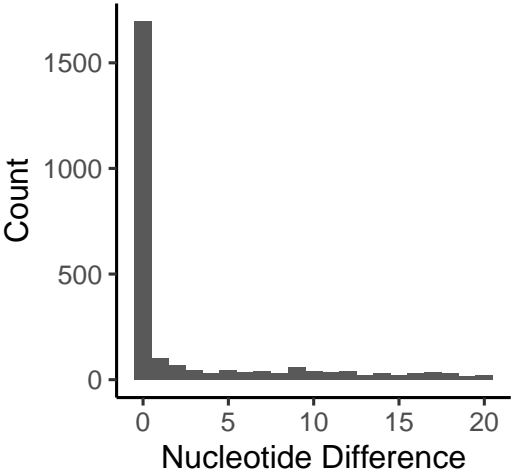


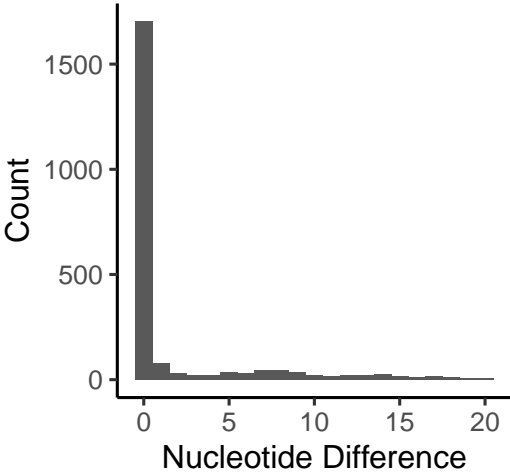
IGHV1-2*02

2593 sequences assigned
1696 (65.4%) exact matches, in which:
1692 unique CDR3
6 unique J



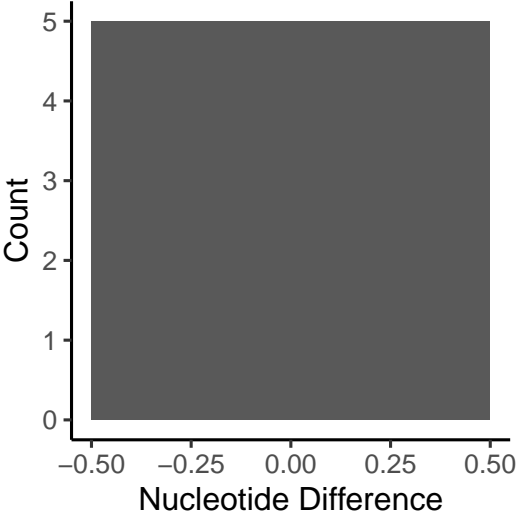
IGHV1-8*01

2284 sequences assigned
1703 (74.6%) exact matches, in which:
1692 unique CDR3
6 unique J



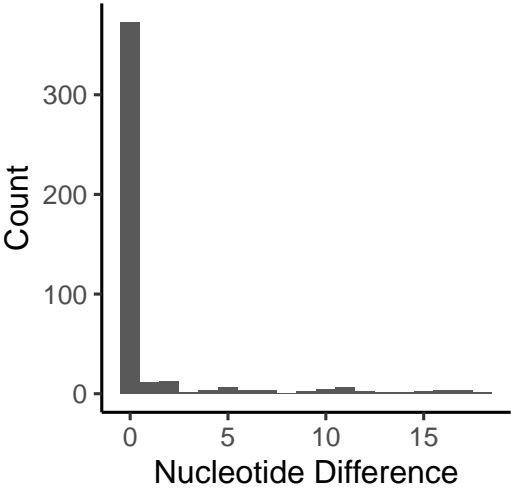
IGHV1-45*02

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



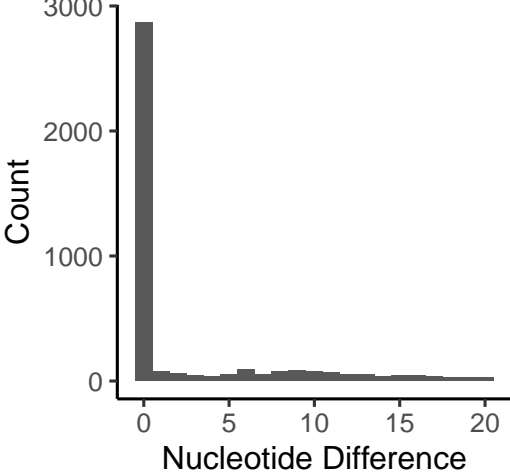
IGHV1-2*04

458 sequences assigned
373 (81.4%) exact matches, in which:
370 unique CDR3
6 unique J



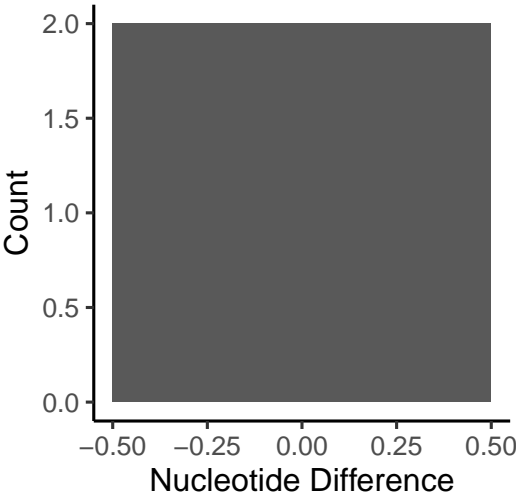
IGHV1-18*01

4103 sequences assigned
2866 (69.9%) exact matches, in which:
2854 unique CDR3
6 unique J



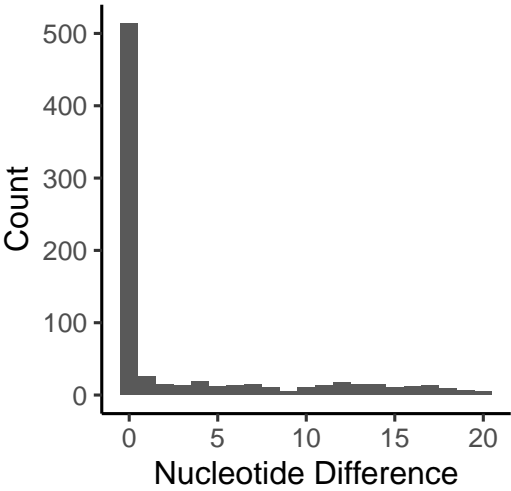
IGHV1-45*03

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



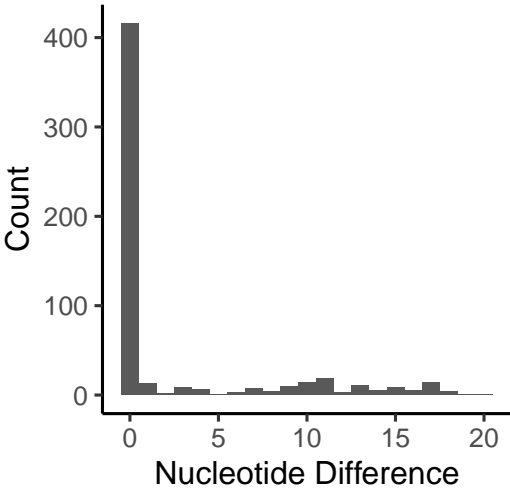
IGHV1-3*01_05

817 sequences assigned
514 (62.9%) exact matches, in which:
511 unique CDR3
6 unique J



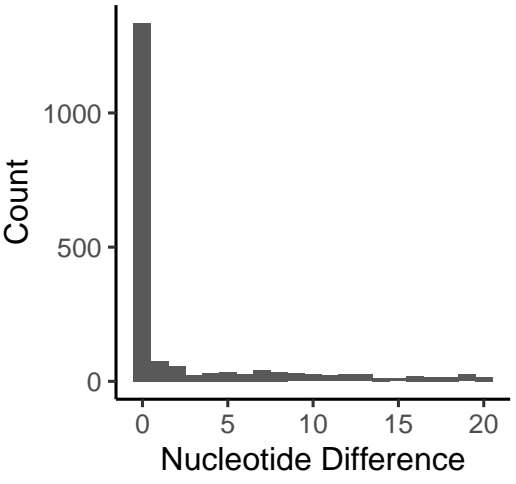
IGHV1-24*01

571 sequences assigned
416 (72.9%) exact matches, in which:
416 unique CDR3
6 unique J



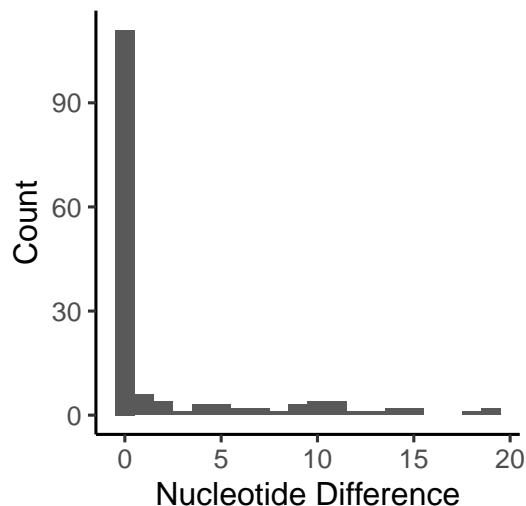
IGHV1-46*01

2007 sequences assigned
1335 (66.5%) exact matches, in which:
1329 unique CDR3
6 unique J



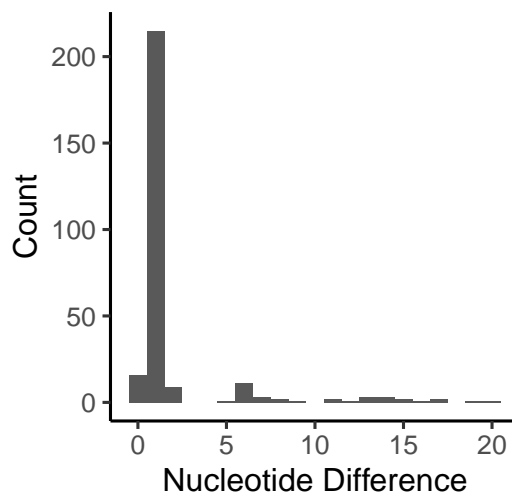
IGHV1-58*02

161 sequences assigned
111 (68.9%) exact matches, in which:
111 unique CDR3
5 unique J



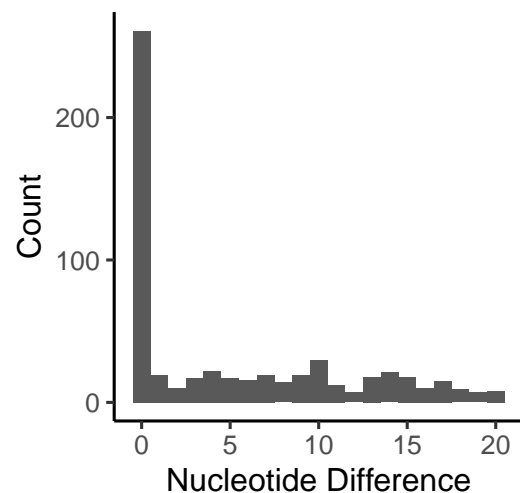
IGHV1-69*04_09

306 sequences assigned
16 (5.2%) exact matches, in which:
16 unique CDR3
4 unique J



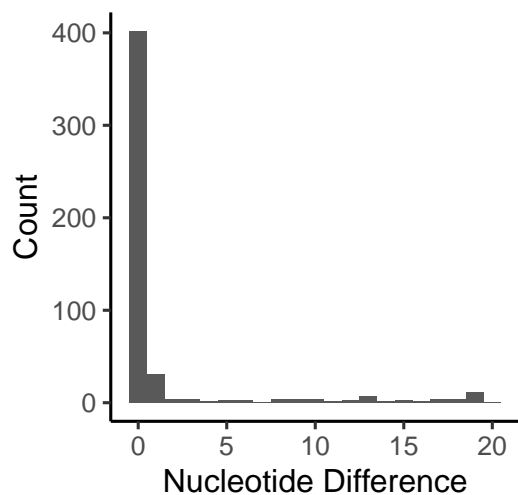
IGHV2-5*02

596 sequences assigned
261 (43.8%) exact matches, in which:
261 unique CDR3
6 unique J



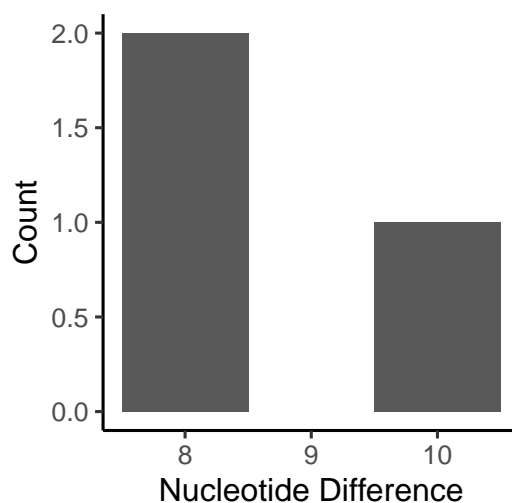
IGHV1-69*02

535 sequences assigned
402 (75.1%) exact matches, in which:
396 unique CDR3
6 unique J



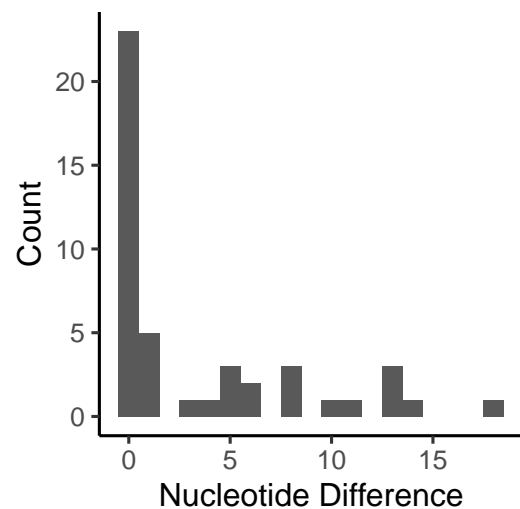
IGHV1-NL1*01

3 sequences assigned
No exact matches.



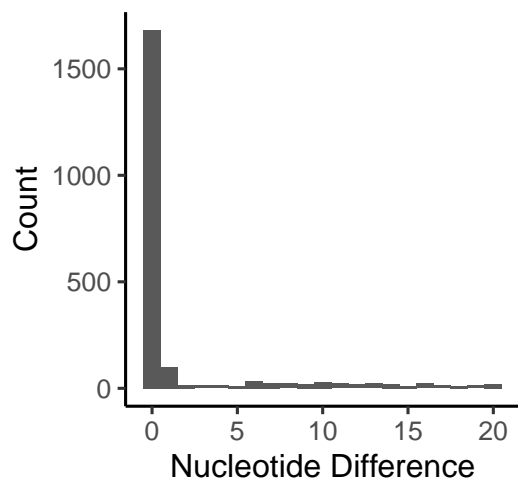
IGHV2-26*01

45 sequences assigned
23 (51.1%) exact matches, in which:
22 unique CDR3
5 unique J



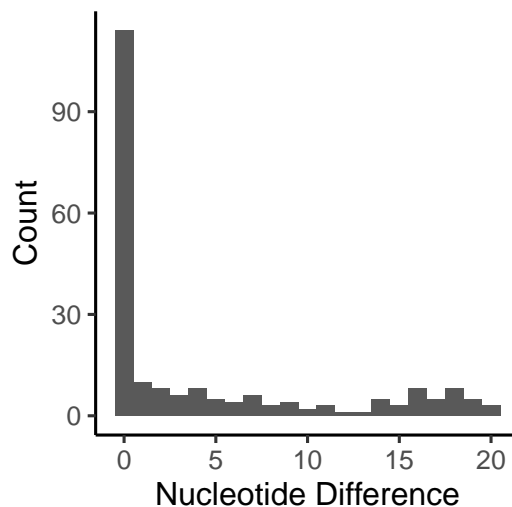
IGHV1-69*01_12_13

2288 sequences assigned
1682 (73.5%) exact matches, in which:
1671 unique CDR3
6 unique J



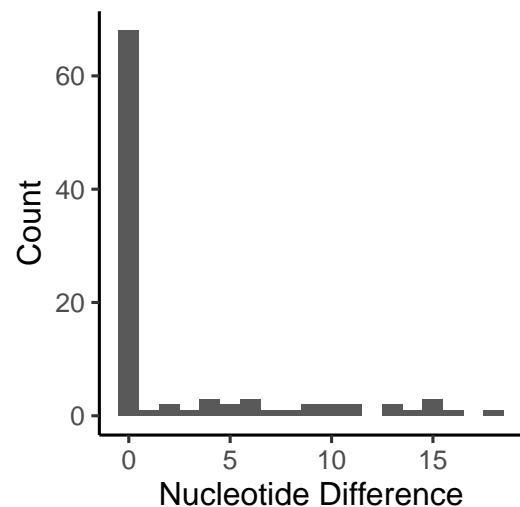
IGHV2-5*01

223 sequences assigned
114 (51.1%) exact matches, in which:
111 unique CDR3
6 unique J



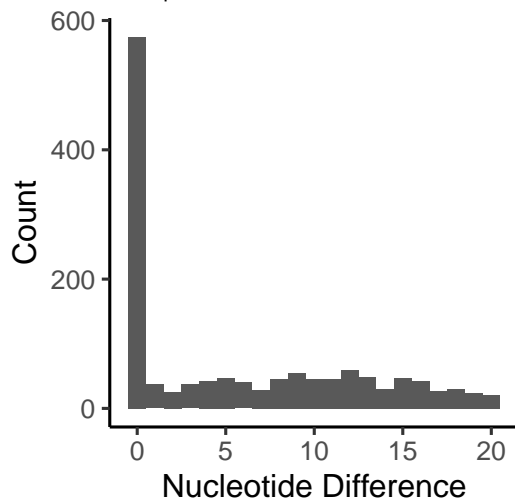
IGHV2-70*01

96 sequences assigned
68 (70.8%) exact matches, in which:
68 unique CDR3
5 unique J



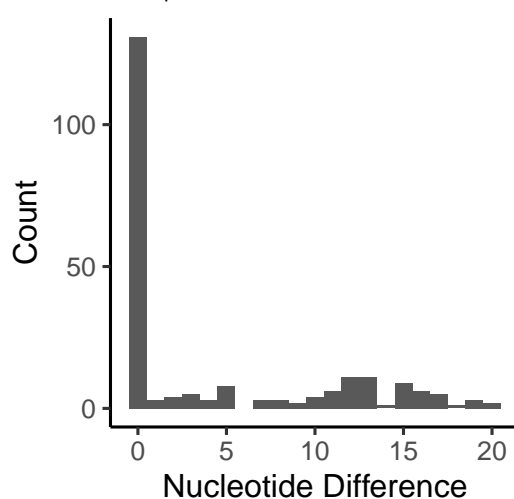
IGHV3-7*01

1471 sequences assigned
575 (39.1%) exact matches, in which:
492 unique CDR3
6 unique J



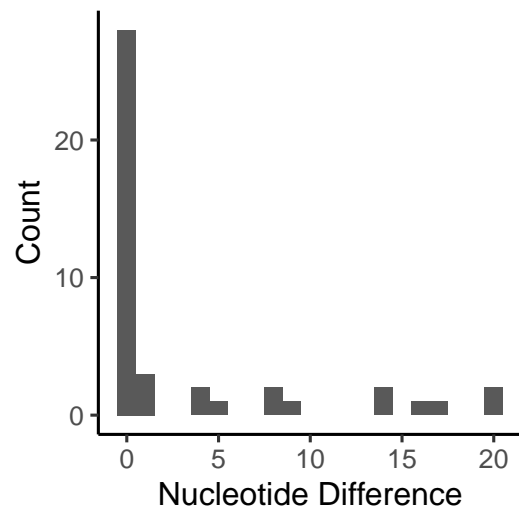
IGHV3-13*01

254 sequences assigned
131 (51.6%) exact matches, in which:
113 unique CDR3
5 unique J



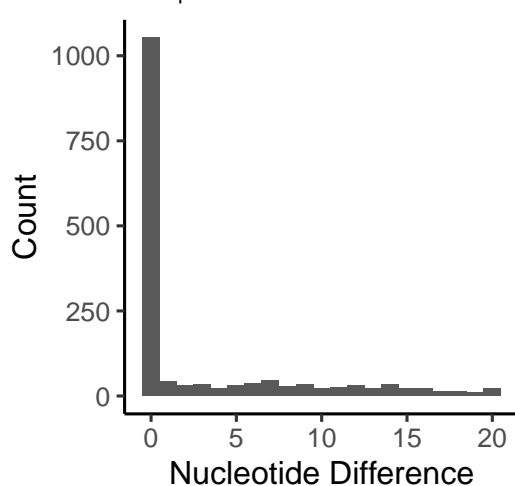
IGHV3-20*01_02

50 sequences assigned
28 (56%) exact matches, in which:
25 unique CDR3
5 unique J



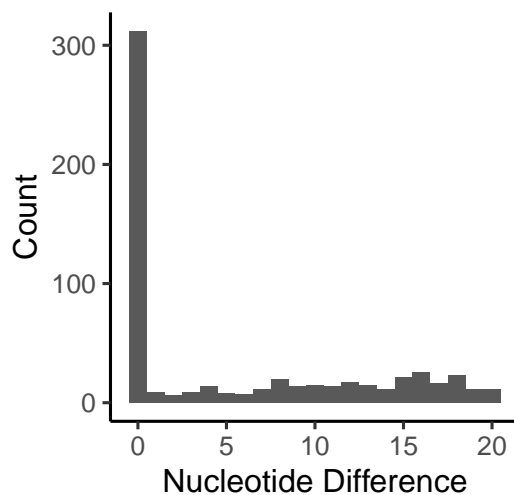
IGHV3-9*01

1716 sequences assigned
1053 (61.4%) exact matches, in which:
910 unique CDR3
6 unique J



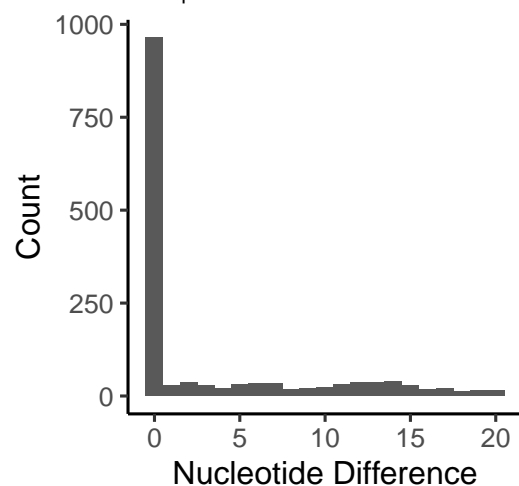
IGHV3-15*01_02

681 sequences assigned
312 (45.8%) exact matches, in which:
277 unique CDR3
6 unique J



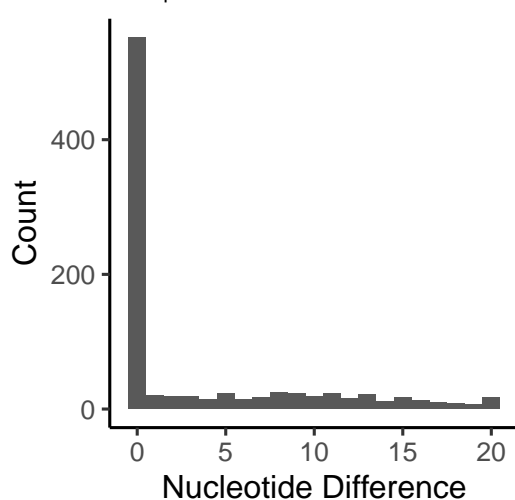
IGHV3-21*01_02

1589 sequences assigned
964 (60.7%) exact matches, in which:
835 unique CDR3
6 unique J



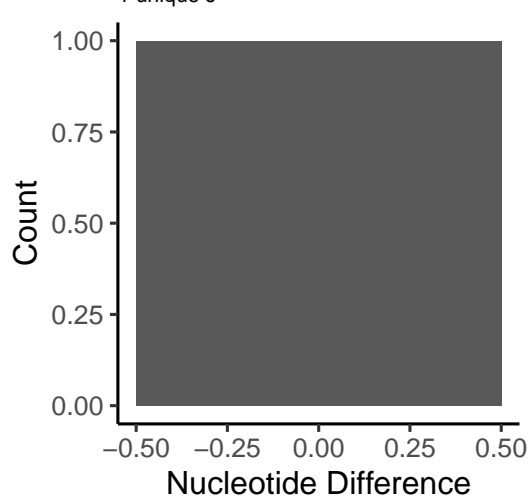
IGHV3-11*01

941 sequences assigned
552 (58.7%) exact matches, in which:
472 unique CDR3
6 unique J



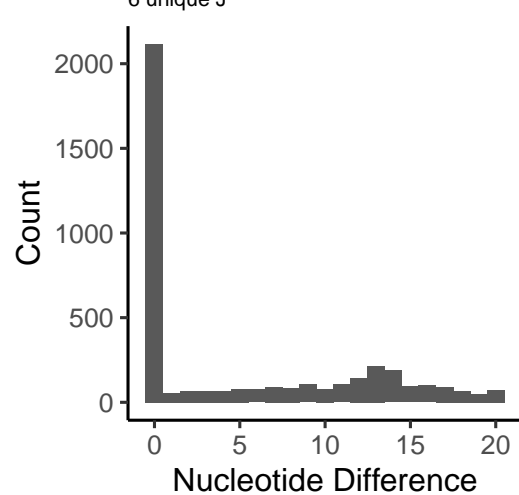
IGHV3-19*01

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



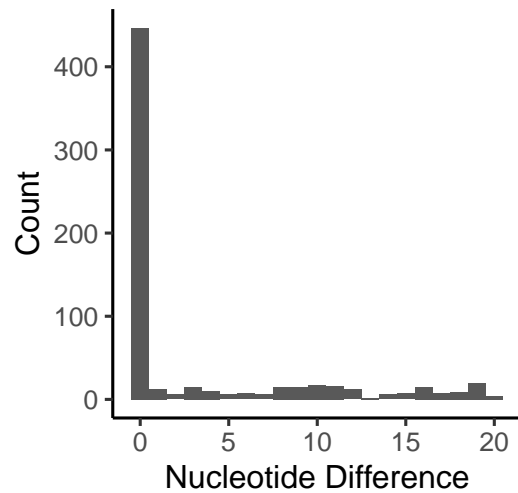
IGHV3-23*01_04

4431 sequences assigned
2116 (47.8%) exact matches, in which:
1841 unique CDR3
6 unique J



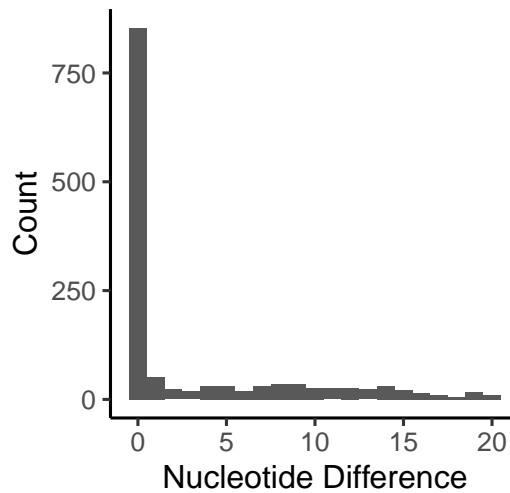
IGHV3–30*01

674 sequences assigned
447 (66.3%) exact matches, in which:
390 unique CDR3
6 unique J



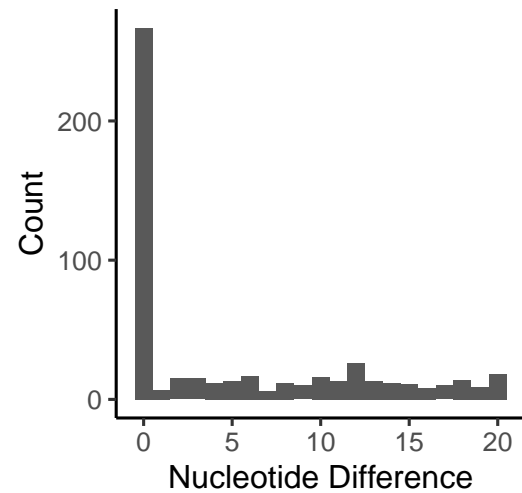
IGHV3–33*01

1406 sequences assigned
854 (60.7%) exact matches, in which:
740 unique CDR3
6 unique J



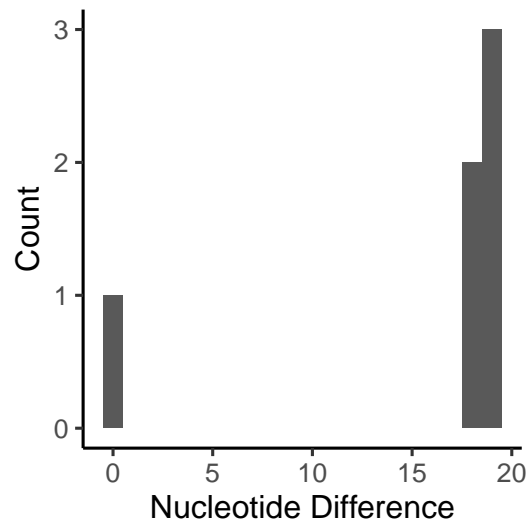
IGHV3–48*02

567 sequences assigned
267 (47.1%) exact matches, in which:
233 unique CDR3
6 unique J



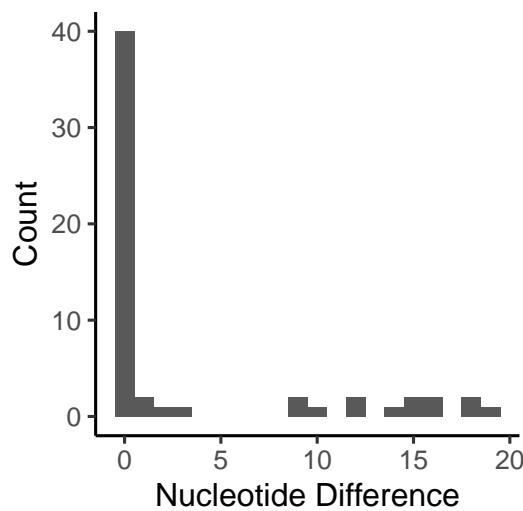
IGHV3–30–3*01

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



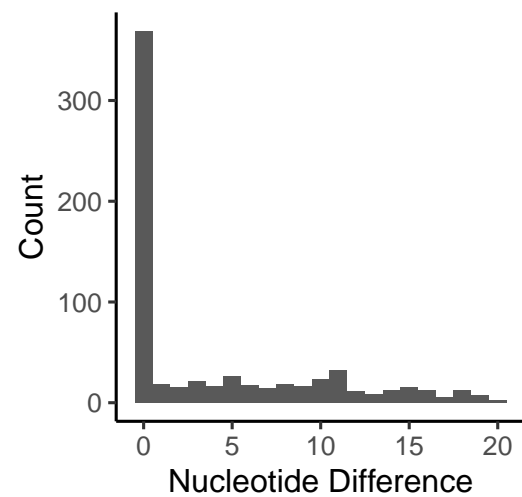
IGHV3–43*01

63 sequences assigned
40 (63.5%) exact matches, in which:
34 unique CDR3
6 unique J



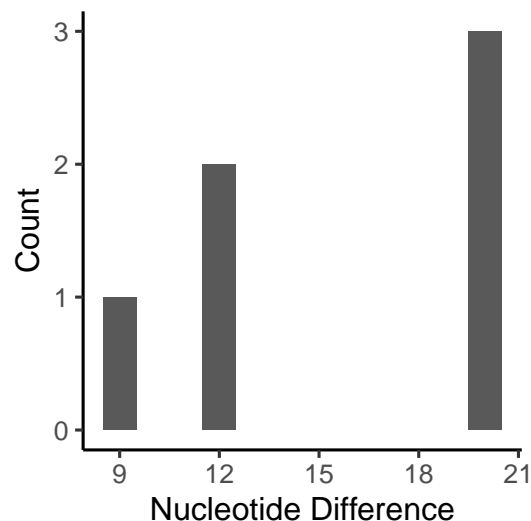
IGHV3–48*03

722 sequences assigned
369 (51.1%) exact matches, in which:
328 unique CDR3
6 unique J



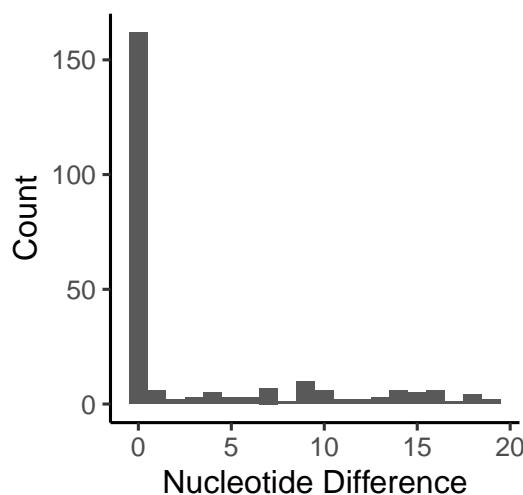
IGHV3–30–3*03

12 sequences assigned
No exact matches.



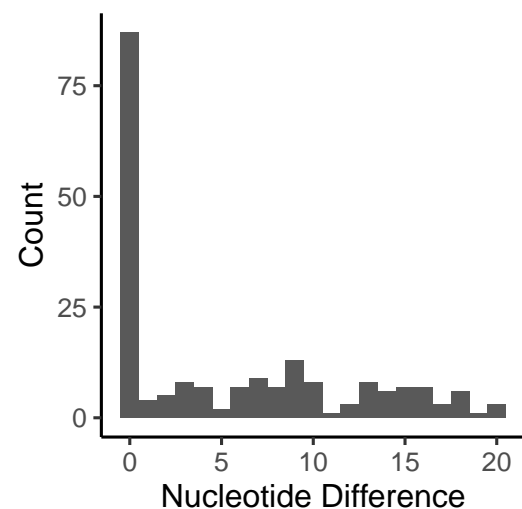
IGHV3–43*02

261 sequences assigned
162 (62.1%) exact matches, in which:
144 unique CDR3
6 unique J



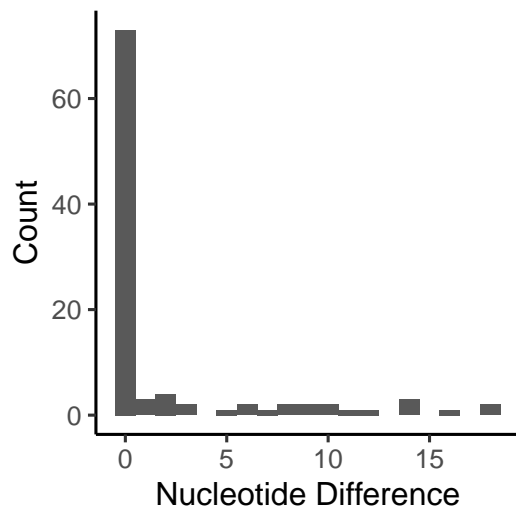
IGHV3–49*04

221 sequences assigned
87 (39.4%) exact matches, in which:
78 unique CDR3
4 unique J



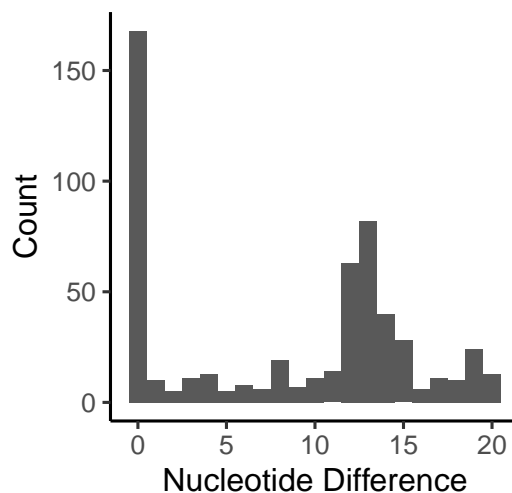
IGHV3-49*03_05

102 sequences assigned
73 (71.6%) exact matches, in which:
62 unique CDR3
5 unique J



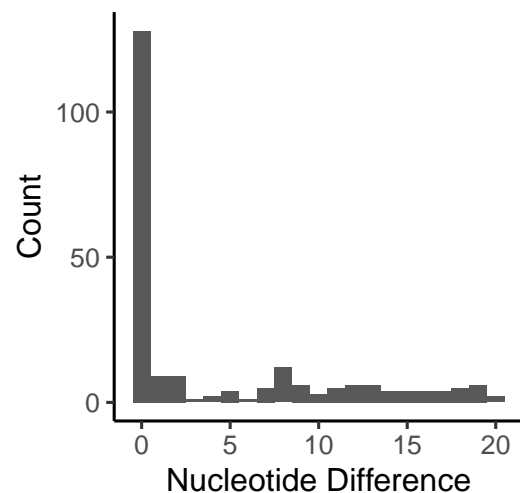
IGHV3-53*01_02

592 sequences assigned
168 (28.4%) exact matches, in which:
146 unique CDR3
6 unique J



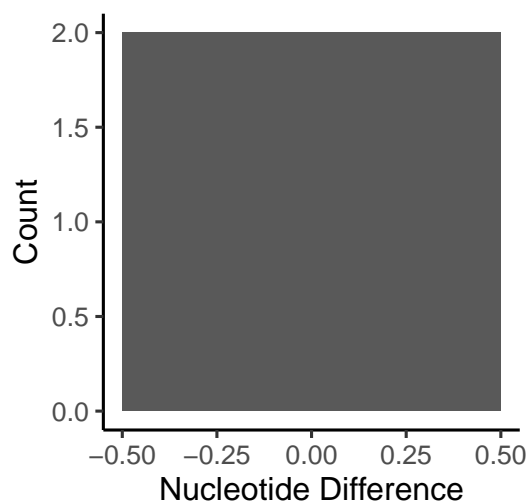
IGHV3-66*02

243 sequences assigned
128 (52.7%) exact matches, in which:
114 unique CDR3
5 unique J



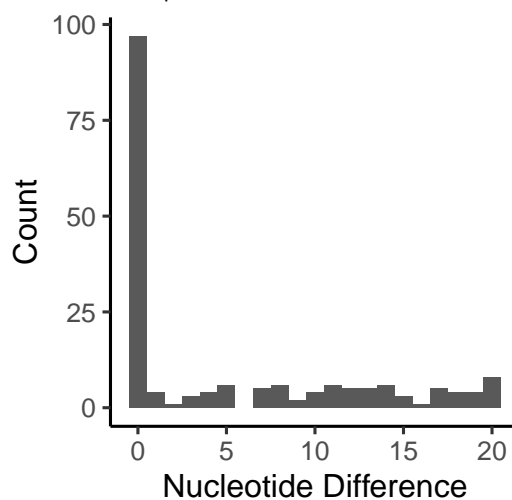
IGHV3-52*01_03

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



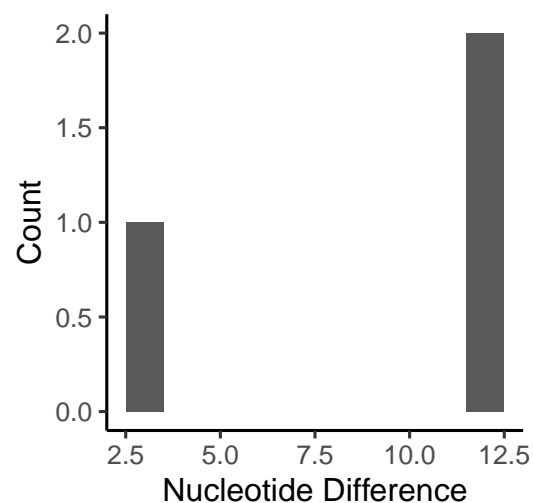
IGHV3-64*01

268 sequences assigned
97 (36.2%) exact matches, in which:
79 unique CDR3
6 unique J



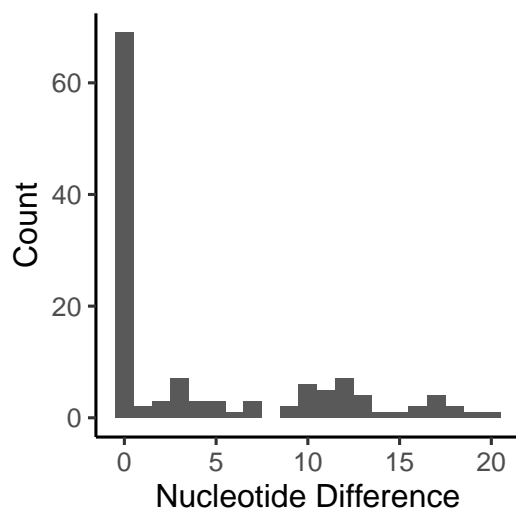
IGHV3-69-1*01

3 sequences assigned
No exact matches.



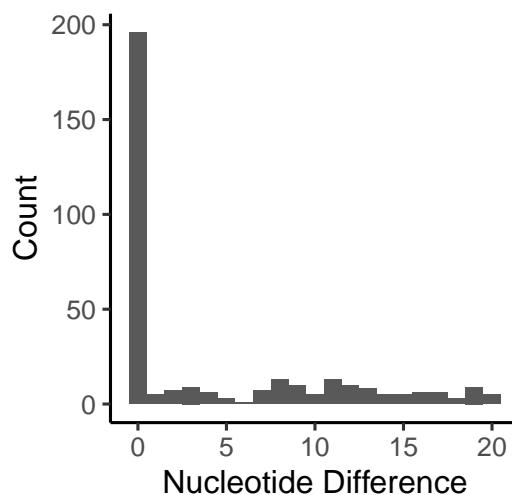
IGHV3-53*04

135 sequences assigned
69 (51.1%) exact matches, in which:
58 unique CDR3
6 unique J



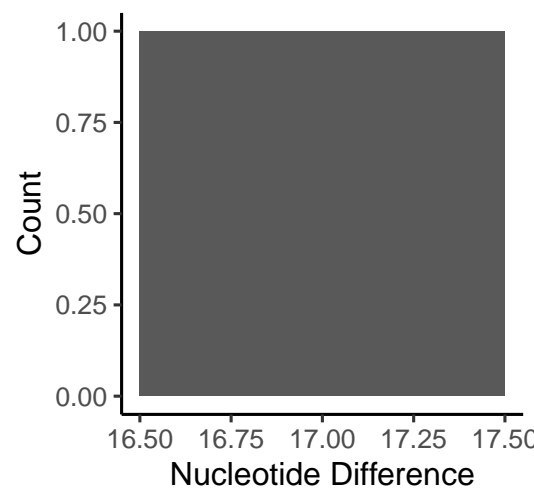
IGHV3-66*01

372 sequences assigned
196 (52.7%) exact matches, in which:
169 unique CDR3
6 unique J



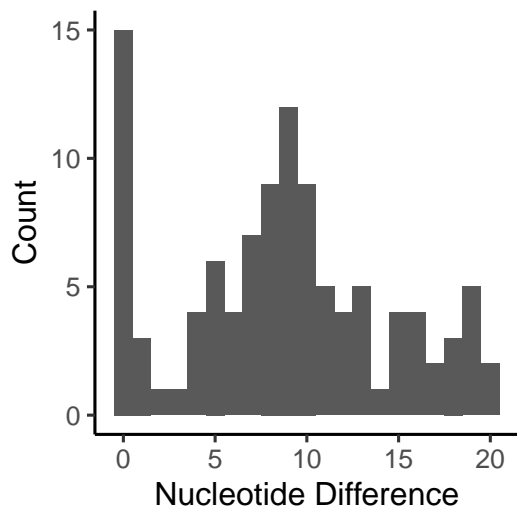
IGHV3-69-1*02

1 sequences assigned
No exact matches.



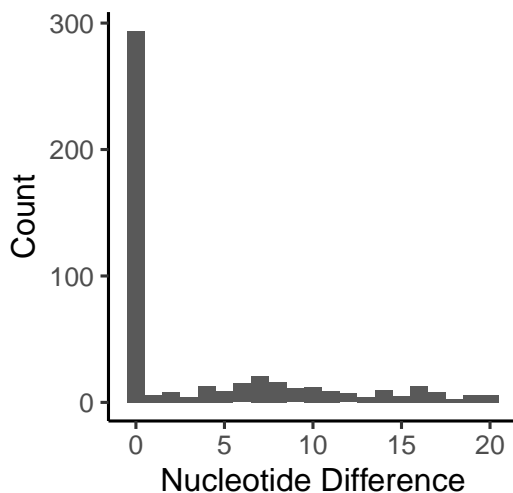
IGHV3-72*01

112 sequences assigned
15 (13.4%) exact matches, in which:
13 unique CDR3
3 unique J



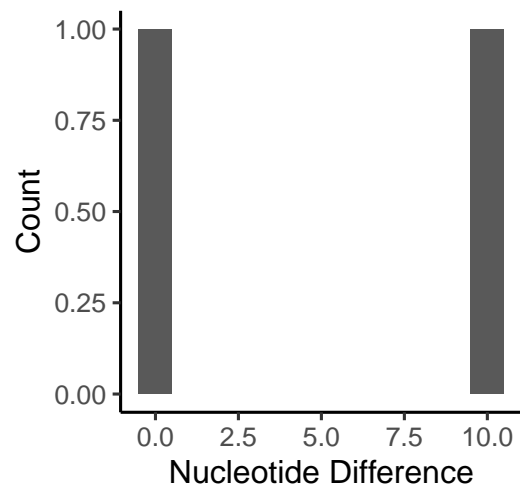
IGHV3-74*01_02

519 sequences assigned
294 (56.6%) exact matches, in which:
244 unique CDR3
6 unique J



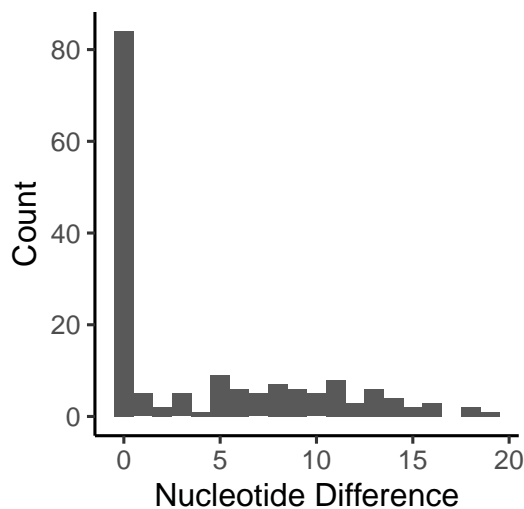
IGHV4-28*03

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



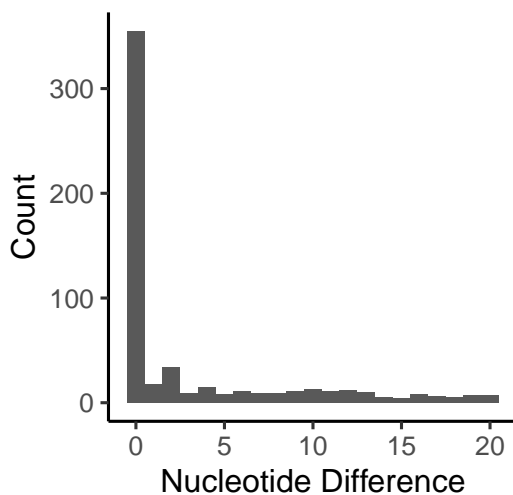
IGHV3-73*01_02

181 sequences assigned
84 (46.4%) exact matches, in which:
75 unique CDR3
6 unique J



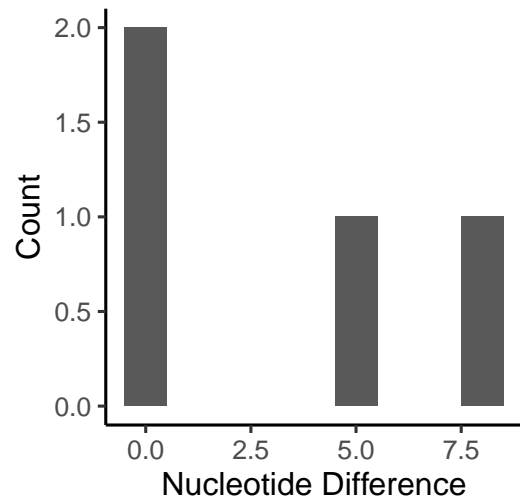
IGHV4-4*07

608 sequences assigned
355 (58.4%) exact matches, in which:
351 unique CDR3
5 unique J



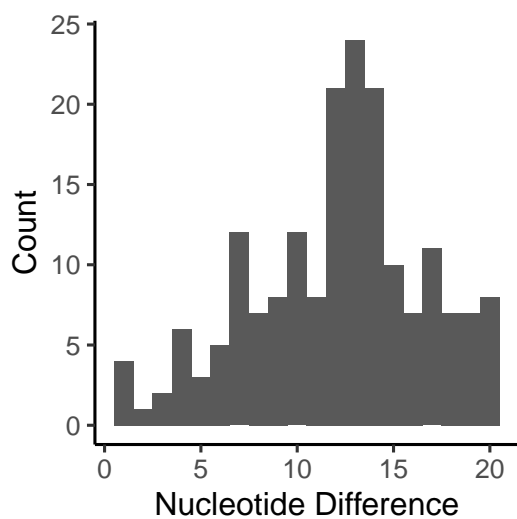
IGHV4-28*01_07

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



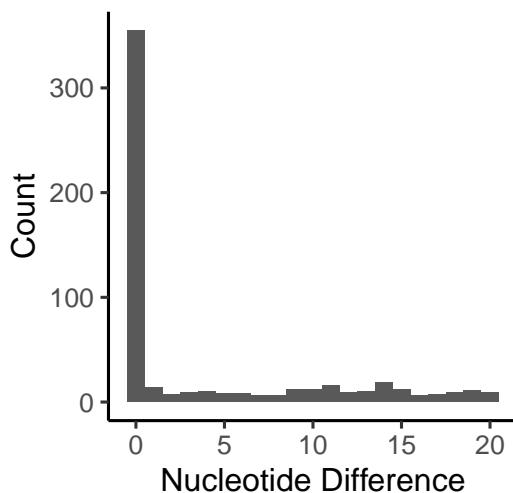
IGHV3-74*03

232 sequences assigned
No exact matches.



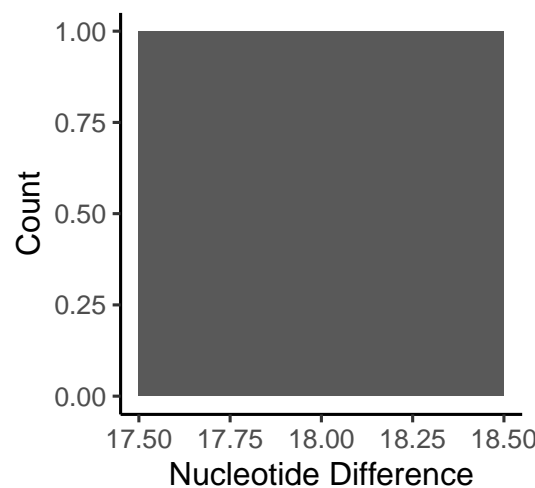
IGHV4-4*02_03

634 sequences assigned
355 (56%) exact matches, in which:
351 unique CDR3
6 unique J



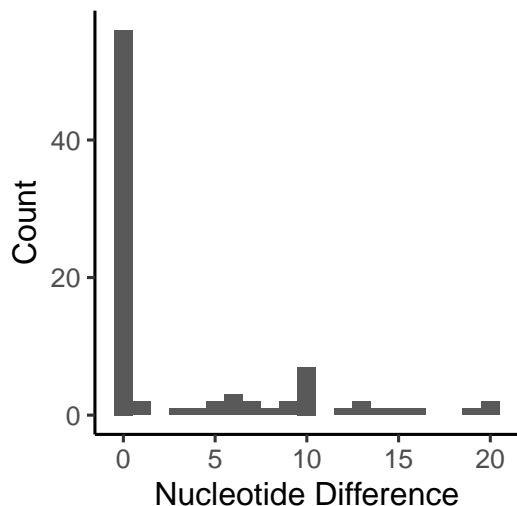
IGHV4-30-4*01

2 sequences assigned
No exact matches.



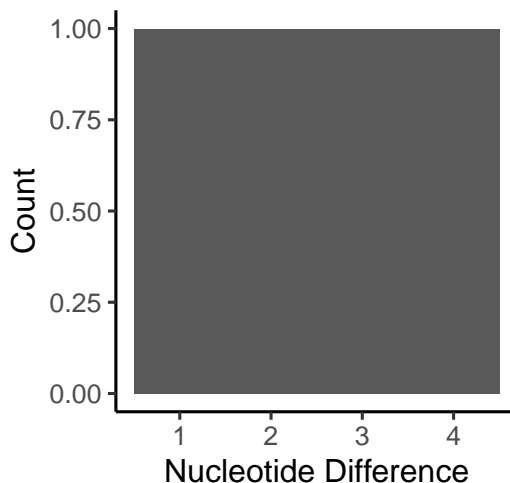
IGHV4-31*01

92 sequences assigned
56 (60.9%) exact matches, in which:
56 unique CDR3
5 unique J



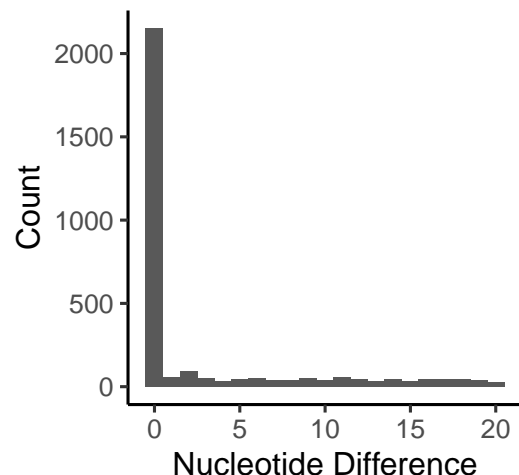
IGHV4-38-2*02

4 sequences assigned
No exact matches.



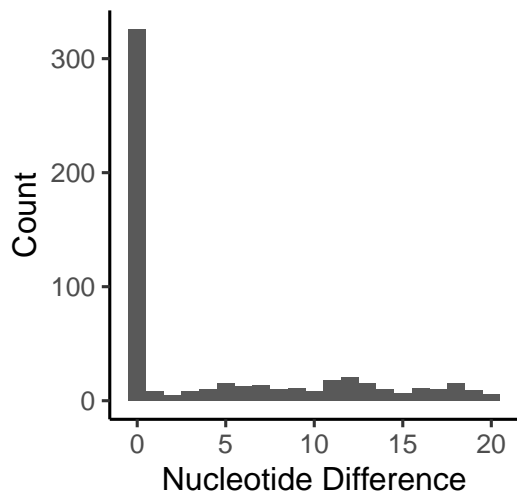
IGHV4-59*02_G88A

3329 sequences assigned
2151 (64.6%) exact matches, in which:
2129 unique CDR3
6 unique J



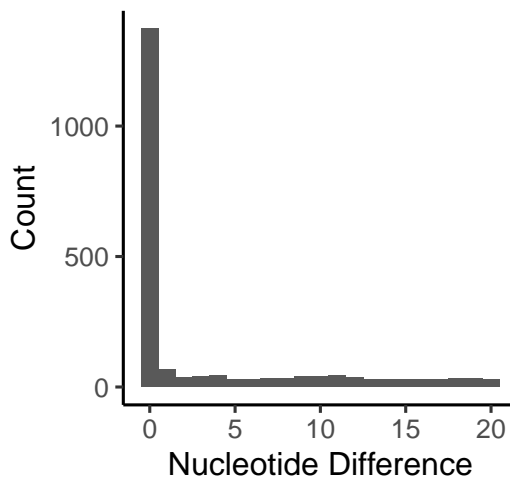
IGHV4-31*02

662 sequences assigned
326 (49.2%) exact matches, in which:
325 unique CDR3
6 unique J



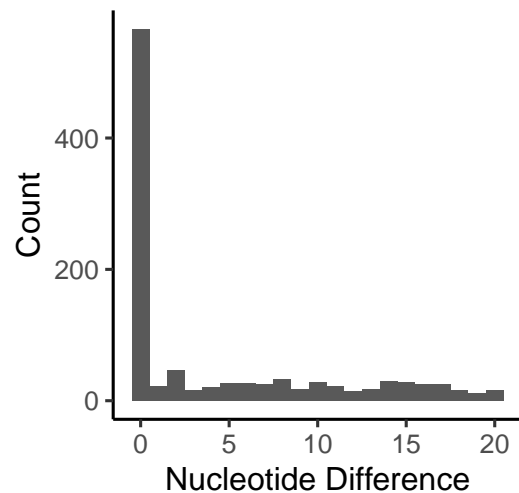
IGHV4-39*02_C258G_C

2289 sequences assigned
1373 (60%) exact matches, in which:
1353 unique CDR3
6 unique J



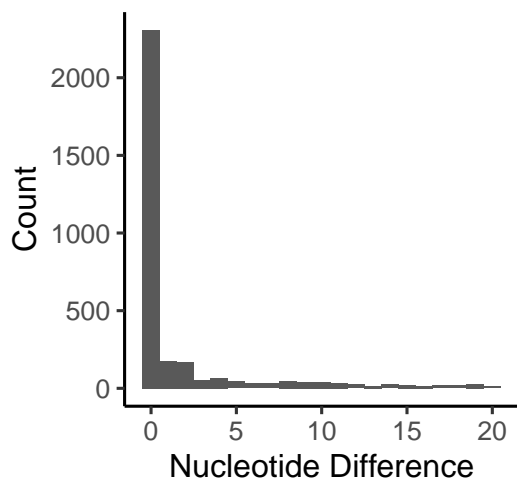
IGHV4-61*02

1140 sequences assigned
566 (49.6%) exact matches, in which:
561 unique CDR3
6 unique J



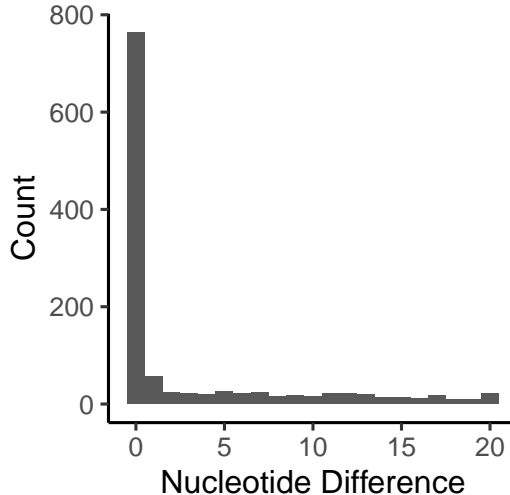
IGHV4-34*01_02

3334 sequences assigned
2307 (69.2%) exact matches, in which:
2280 unique CDR3
6 unique J



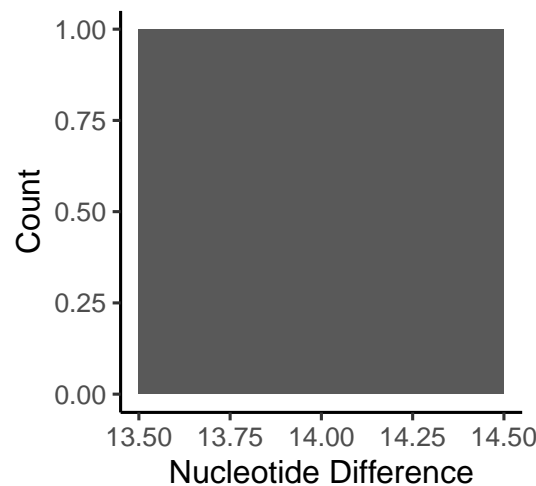
IGHV4-59*08

1245 sequences assigned
764 (61.4%) exact matches, in which:
754 unique CDR3
6 unique J



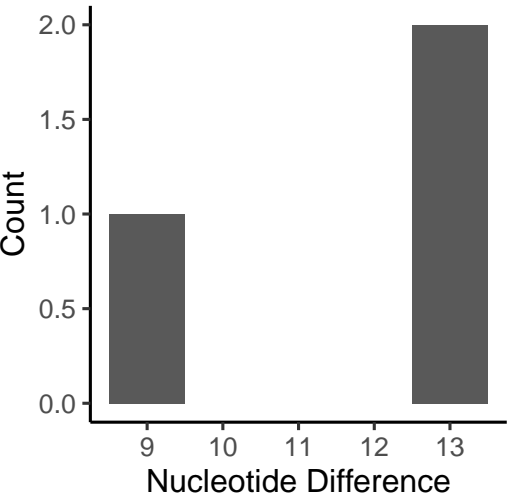
IGHV1/OR15-2*01

1 sequences assigned
No exact matches.



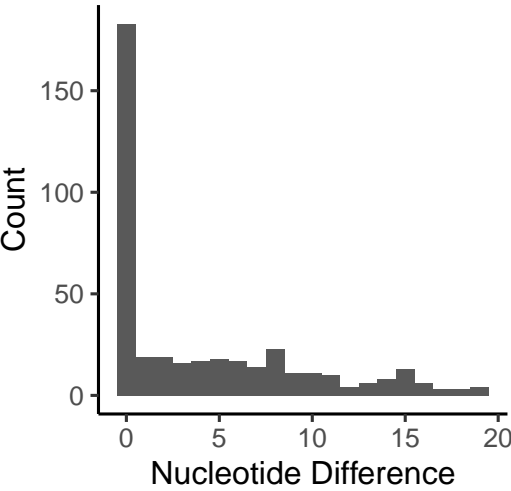
IGHV4/OR15–8*01

4 sequences assigned
No exact matches.



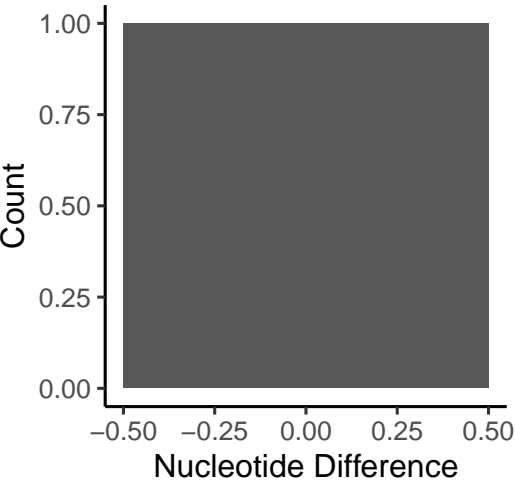
IGHV6–1*01_02

416 sequences assigned
183 (44%) exact matches, in which:
183 unique CDR3
6 unique J



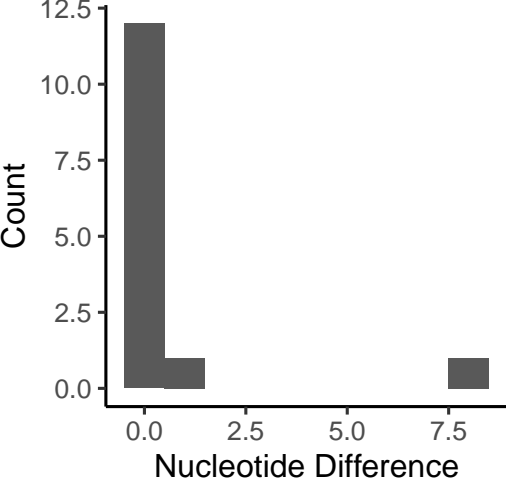
IGHV5–10–1*01_03

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



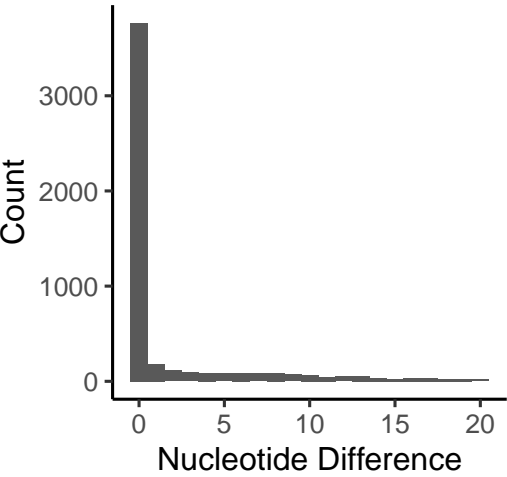
IGHV7–4–1*01

14 sequences assigned
12 (85.7%) exact matches, in which:
12 unique CDR3
3 unique J



IGHV5–51*07_A128G

5180 sequences assigned
3764 (72.7%) exact matches, in which:
3630 unique CDR3
6 unique J





Warning – no inferred sequences found.