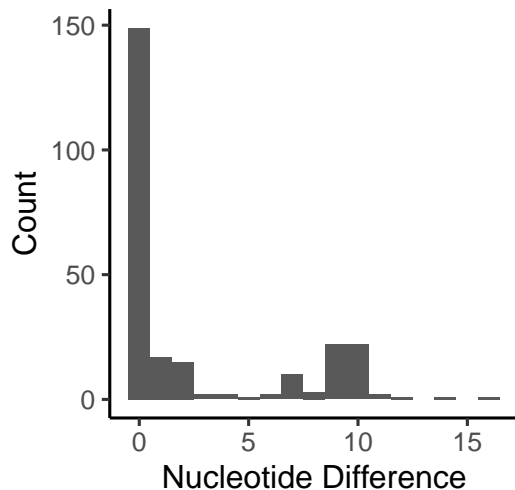


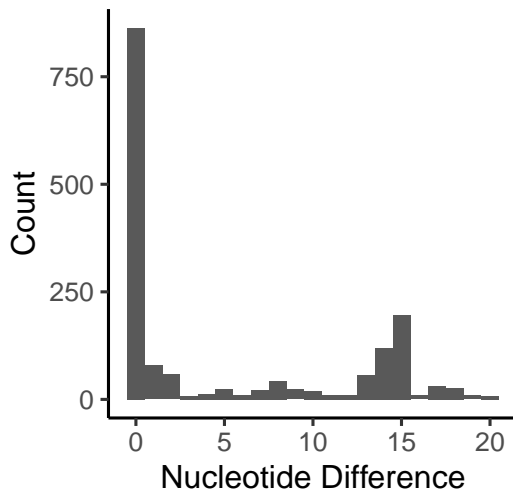
IGHV1-2*04

273 sequences assigned
149 (54.6%) exact matches, in which:
145 unique CDR3
5 unique J



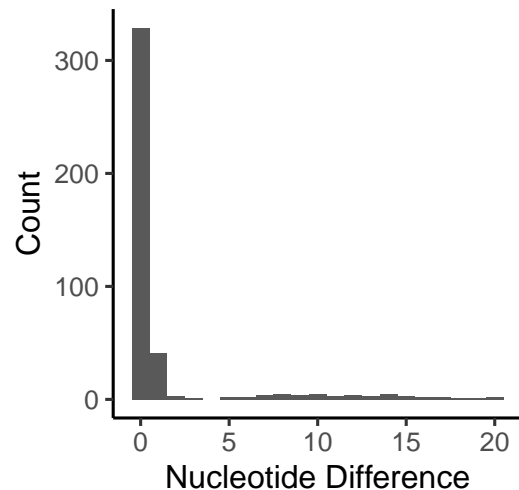
IGHV1-8*01

1713 sequences assigned
864 (50.4%) exact matches, in which:
835 unique CDR3
6 unique J



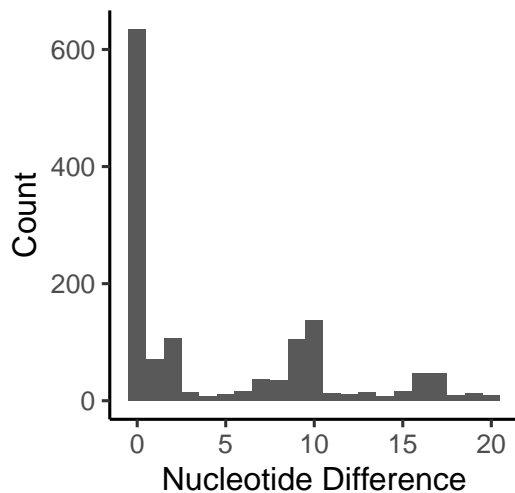
IGHV1-18*01_T81A_T82

474 sequences assigned
329 (69.4%) exact matches, in which:
327 unique CDR3
6 unique J



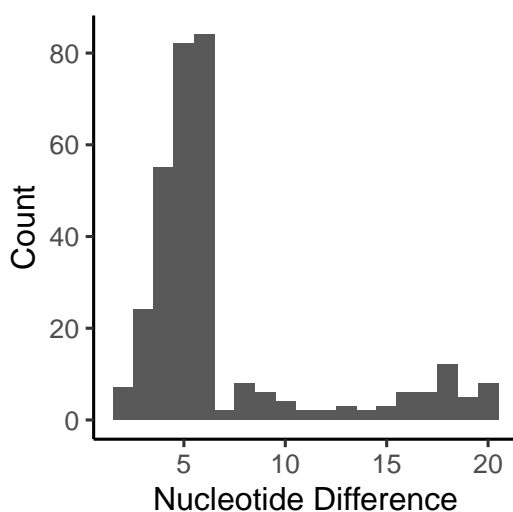
IGHV1-2*06

1534 sequences assigned
635 (41.4%) exact matches, in which:
618 unique CDR3
6 unique J



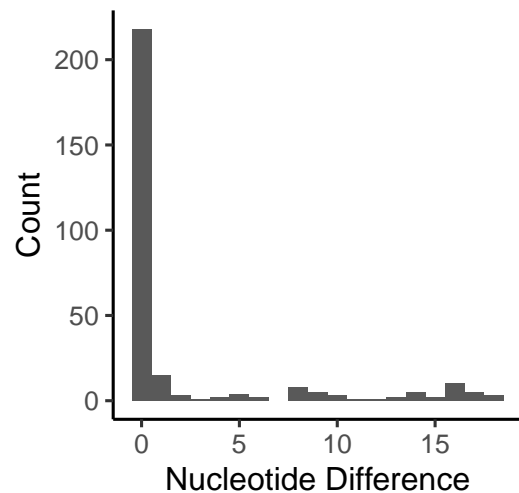
IGHV1-8*02

337 sequences assigned
No exact matches.



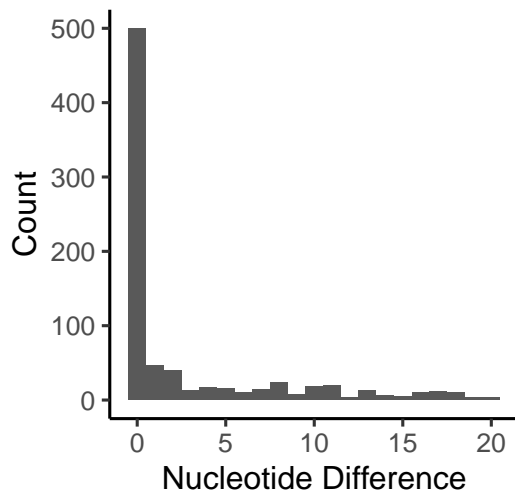
IGHV1-24*01

292 sequences assigned
218 (74.7%) exact matches, in which:
215 unique CDR3
6 unique J



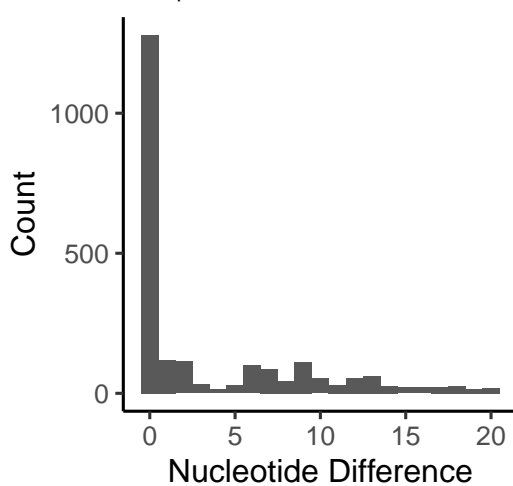
IGHV1-3*01_05

858 sequences assigned
500 (58.3%) exact matches, in which:
478 unique CDR3
6 unique J



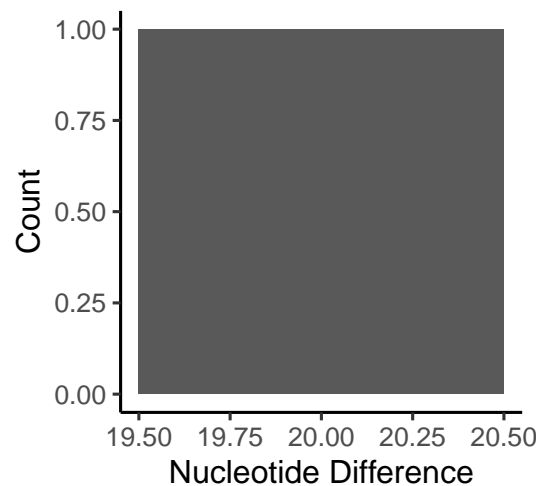
IGHV1-18*01

2825 sequences assigned
1279 (45.3%) exact matches, in which:
1240 unique CDR3
6 unique J



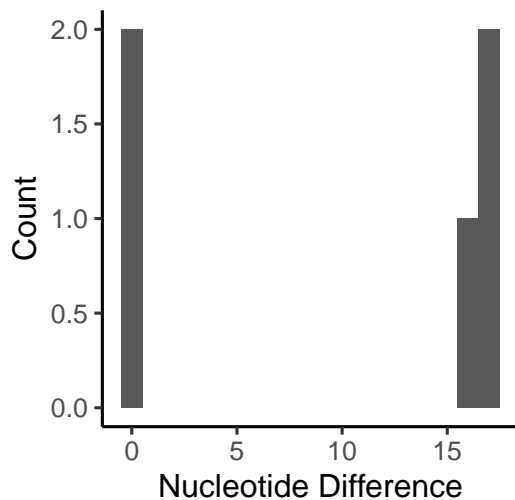
IGHV1-45*01

1 sequences assigned
No exact matches.



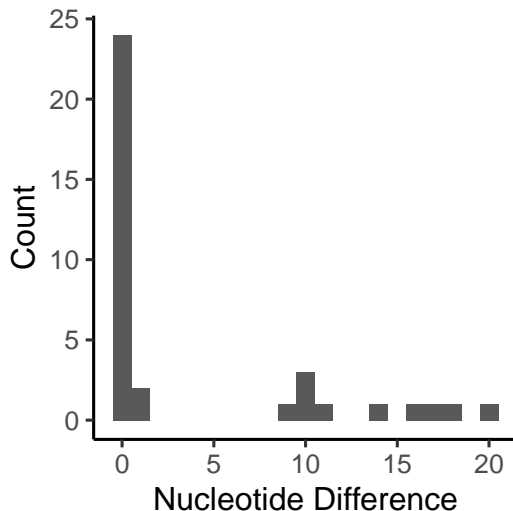
IGHV1-45*02

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
1 unique J



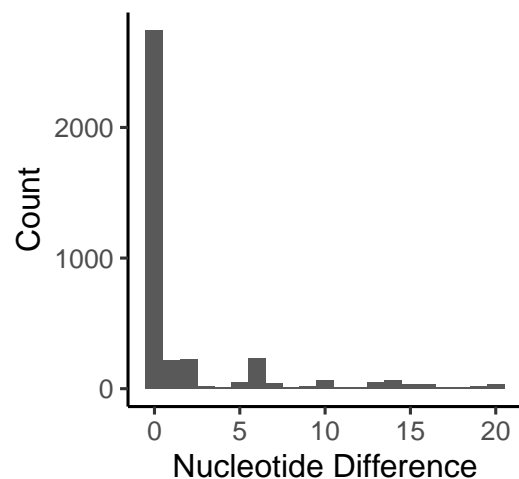
IGHV1-58*02

52 sequences assigned
24 (46.2%) exact matches, in which:
24 unique CDR3
5 unique J



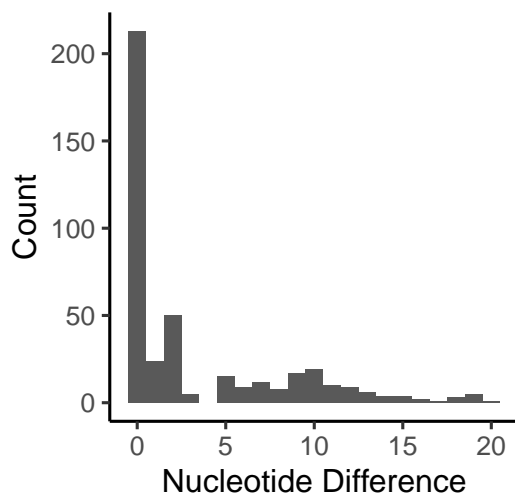
IGHV1-69*01_12_13

4247 sequences assigned
2743 (64.6%) exact matches, in which:
2668 unique CDR3
6 unique J



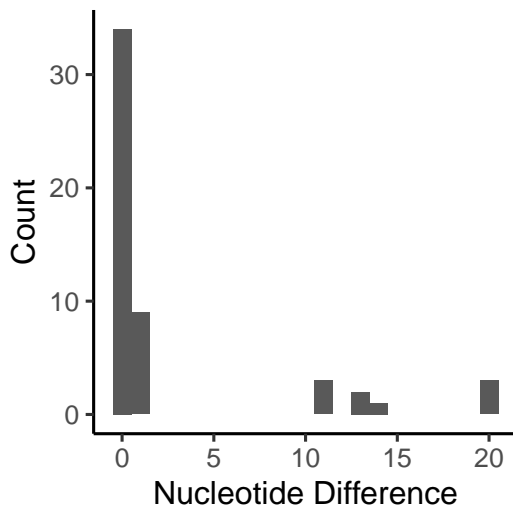
IGHV1-46*01

520 sequences assigned
213 (41%) exact matches, in which:
212 unique CDR3
6 unique J



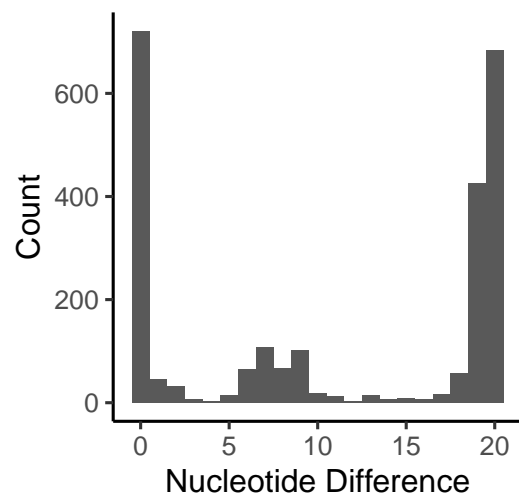
IGHV1-58*01_03

59 sequences assigned
34 (57.6%) exact matches, in which:
34 unique CDR3
5 unique J



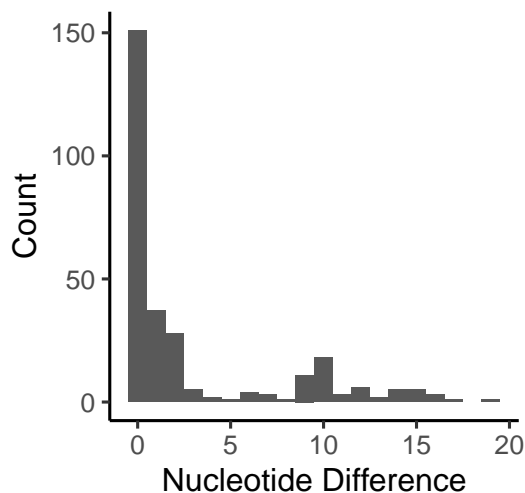
IGHV1-69*06_14

2687 sequences assigned
721 (26.8%) exact matches, in which:
704 unique CDR3
6 unique J



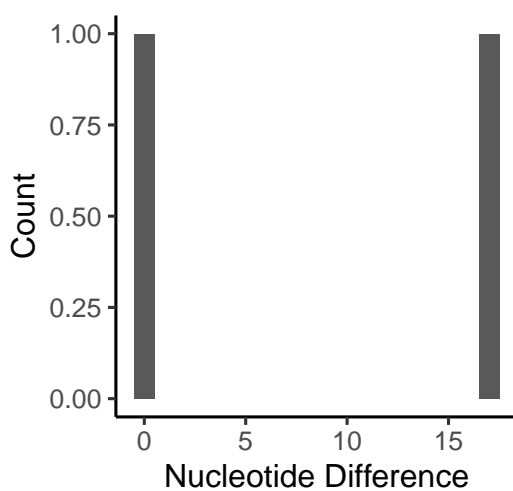
IGHV1-46*03

326 sequences assigned
151 (46.3%) exact matches, in which:
140 unique CDR3
6 unique J



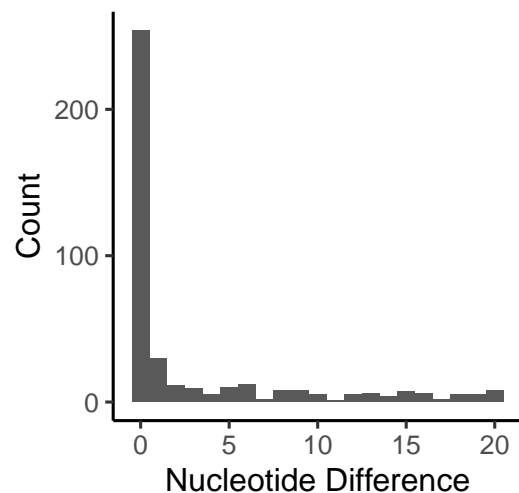
IGHV1-69-2*01

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



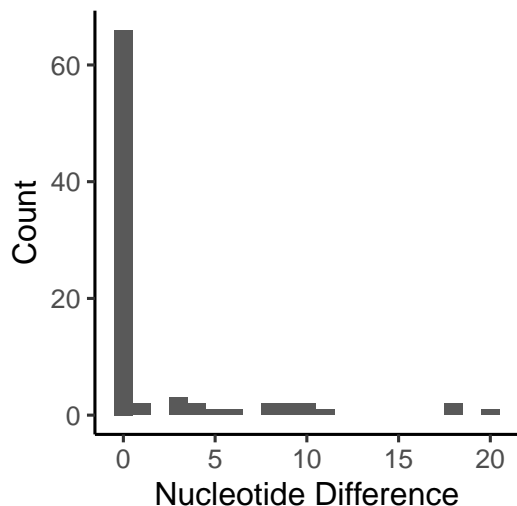
IGHV2-5*02

459 sequences assigned
254 (55.3%) exact matches, in which:
247 unique CDR3
6 unique J



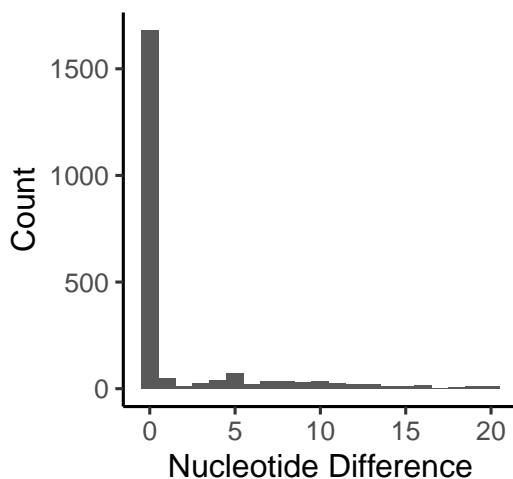
IGHV2–26*01

99 sequences assigned
66 (66.7%) exact matches, in which:
64 unique CDR3
5 unique J



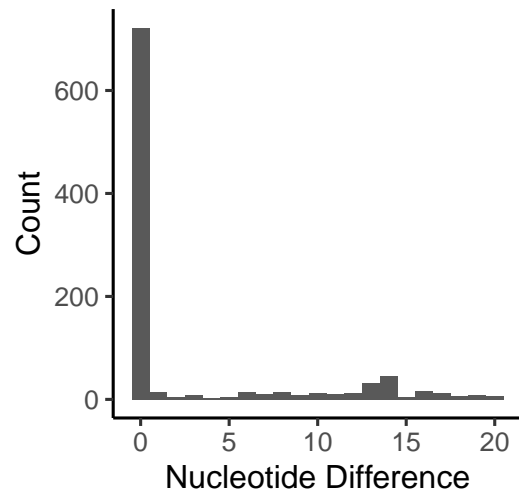
IGHV3–9*01

2400 sequences assigned
1680 (70%) exact matches, in which:
966 unique CDR3
6 unique J



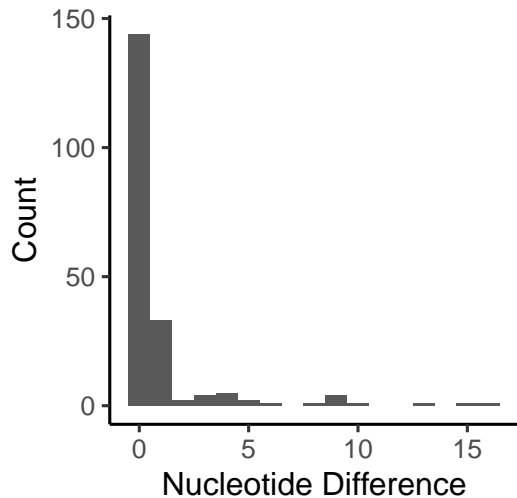
IGHV3–15*01_02

1085 sequences assigned
722 (66.5%) exact matches, in which:
452 unique CDR3
6 unique J



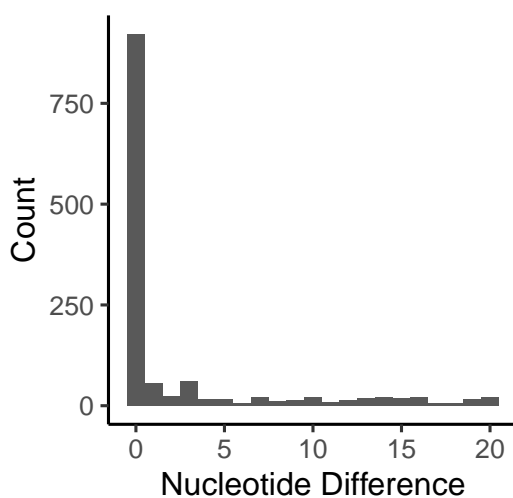
IGHV2–70*01

209 sequences assigned
144 (68.9%) exact matches, in which:
135 unique CDR3
6 unique J



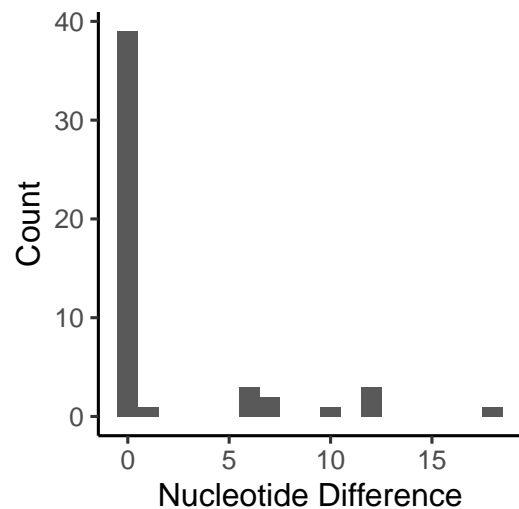
IGHV3–11*01

1547 sequences assigned
922 (59.6%) exact matches, in which:
557 unique CDR3
6 unique J



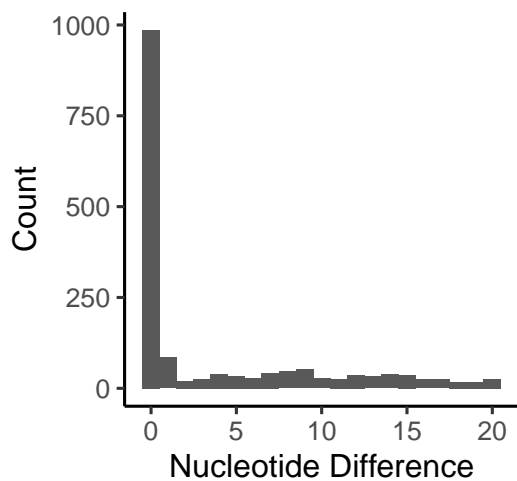
IGHV3–20*01_02

50 sequences assigned
39 (78%) exact matches, in which:
23 unique CDR3
5 unique J



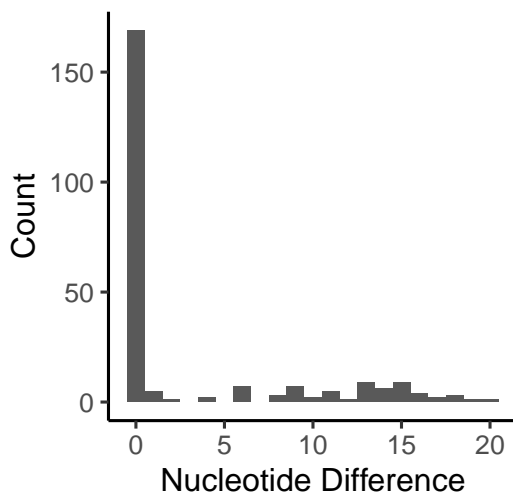
IGHV3–7*01

1872 sequences assigned
986 (52.7%) exact matches, in which:
603 unique CDR3
6 unique J



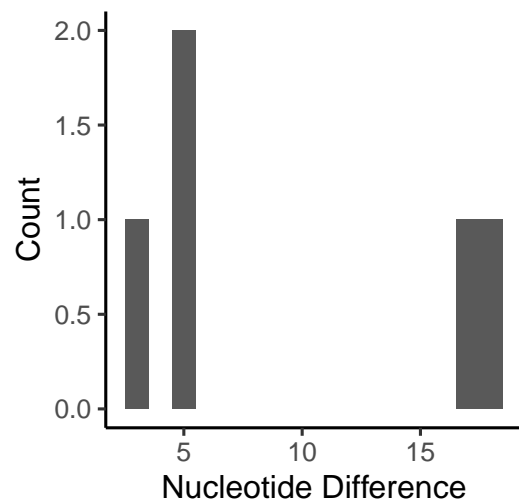
IGHV3–13*01

315 sequences assigned
169 (53.7%) exact matches, in which:
94 unique CDR3
5 unique J



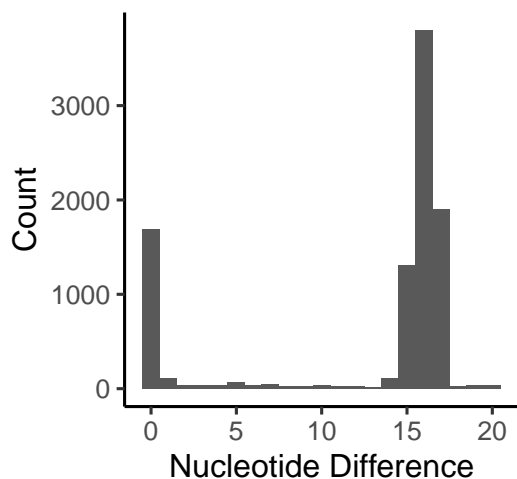
IGHV3–20*03_04

8 sequences assigned
No exact matches.



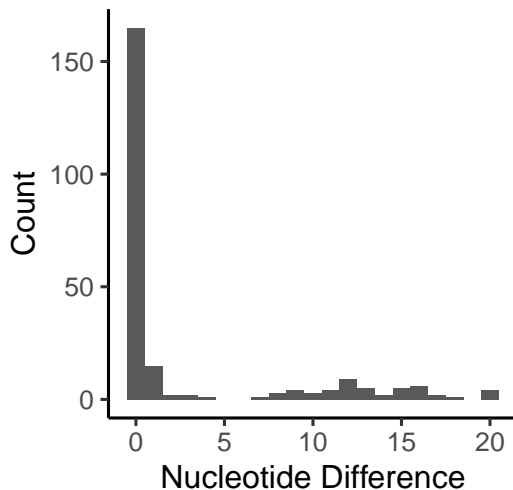
IGHV3–21*01_02

9629 sequences assigned
1694 (17.6%) exact matches, in which:
1019 unique CDR3
6 unique J



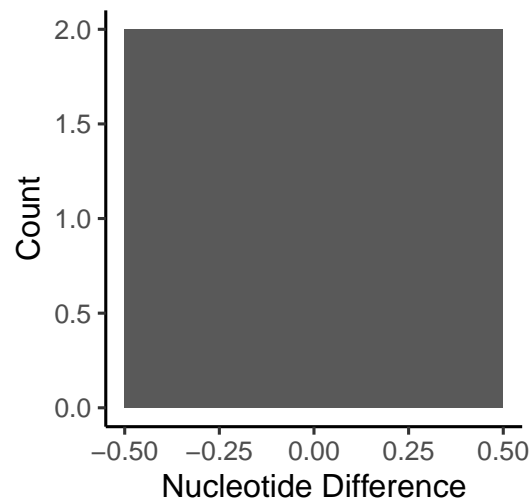
IGHV3–30*03

285 sequences assigned
165 (57.9%) exact matches, in which:
139 unique CDR3
6 unique J



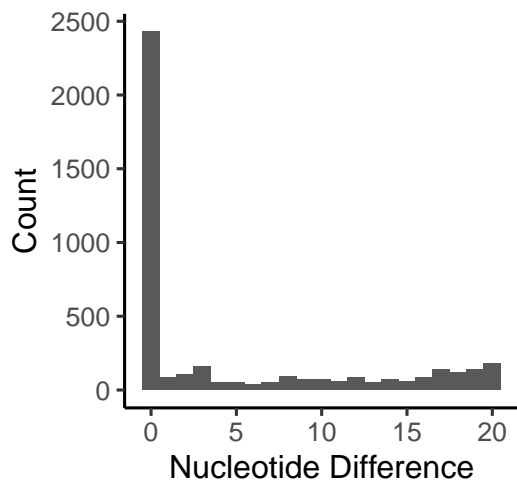
IGHV3–35*01

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



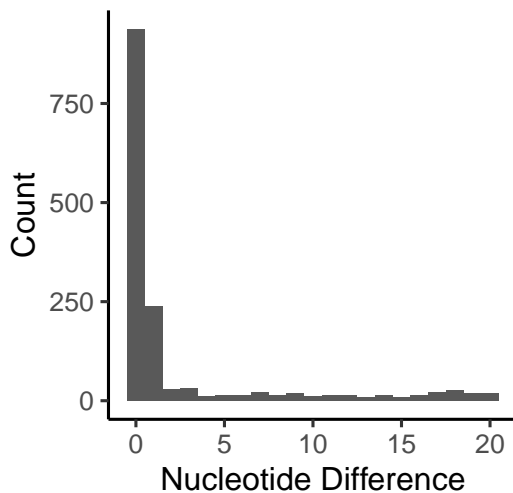
IGHV3–23*01_04

5250 sequences assigned
2429 (46.3%) exact matches, in which:
1431 unique CDR3
6 unique J



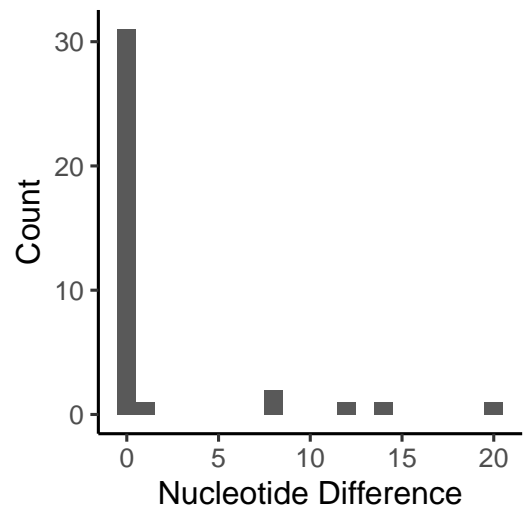
IGHV3–33*01

1703 sequences assigned
938 (55.1%) exact matches, in which:
609 unique CDR3
6 unique J



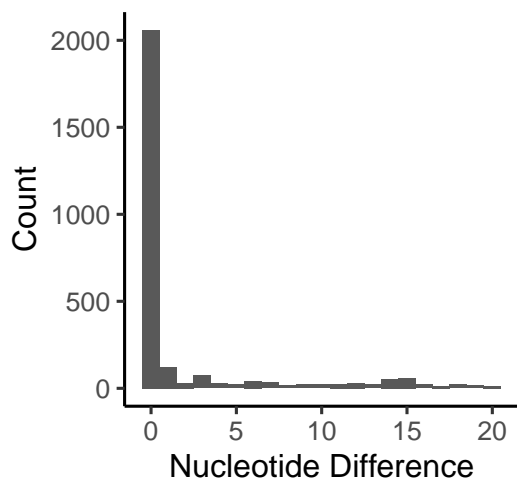
IGHV3–43*01

37 sequences assigned
31 (83.8%) exact matches, in which:
19 unique CDR3
4 unique J



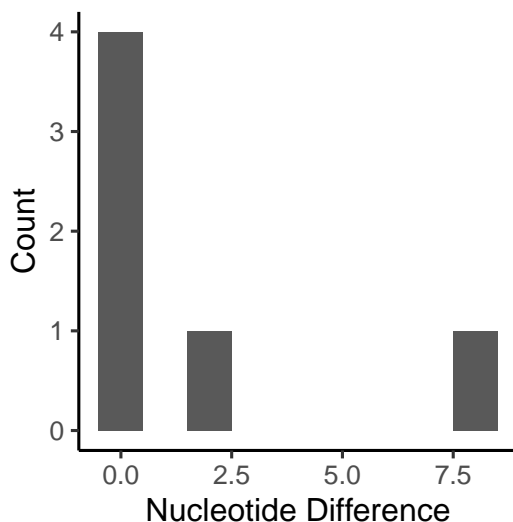
IGHV3–30–3*01

2906 sequences assigned
2059 (70.9%) exact matches, in which:
1281 unique CDR3
6 unique J



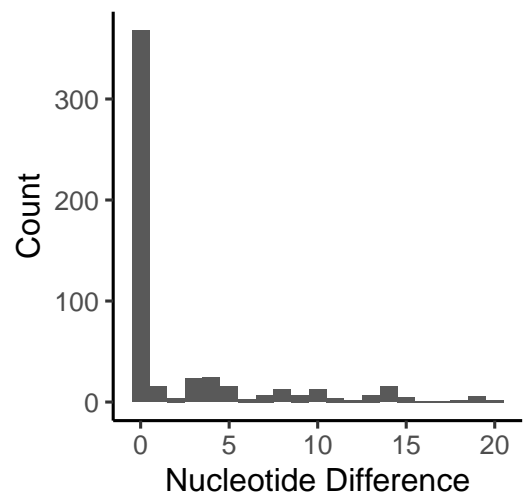
IGHV3–33*05

36 sequences assigned
4 (11.1%) exact matches, in which:
4 unique CDR3
2 unique J



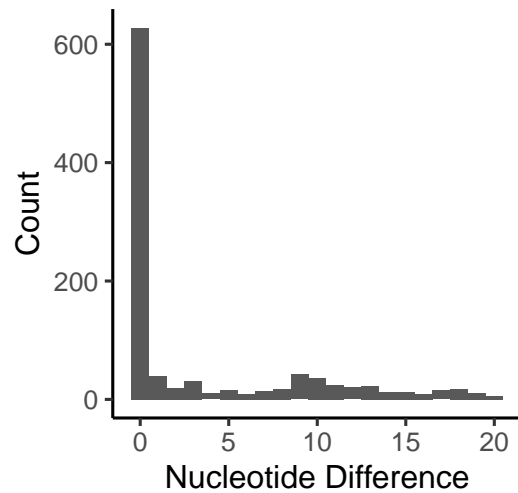
IGHV3–48*01

593 sequences assigned
368 (62.1%) exact matches, in which:
228 unique CDR3
6 unique J



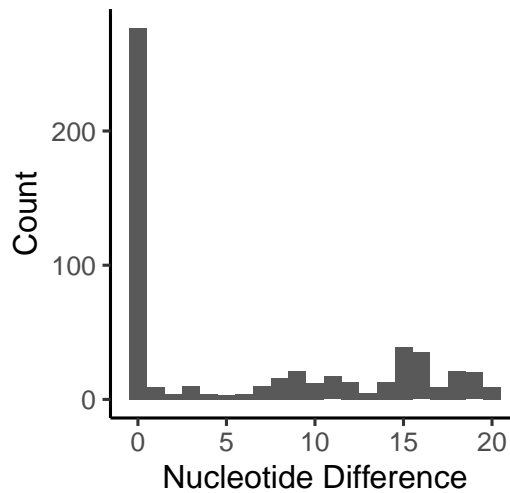
IGHV3-48*03

1187 sequences assigned
628 (52.9%) exact matches, in which:
385 unique CDR3
6 unique J



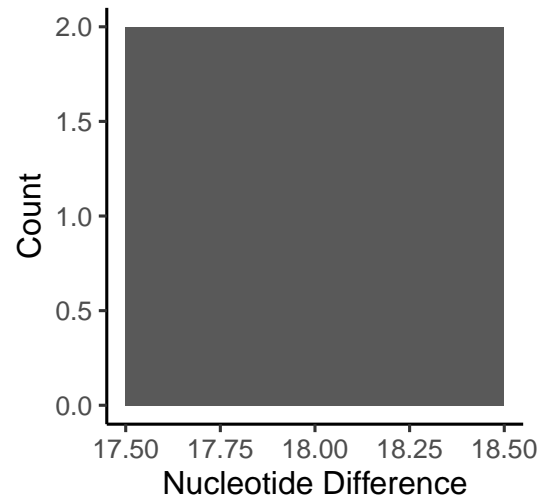
IGHV3-53*01_02

654 sequences assigned
277 (42.4%) exact matches, in which:
161 unique CDR3
6 unique J



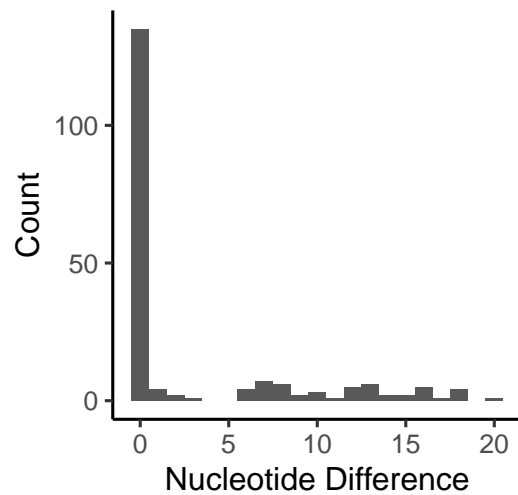
IGHV3-66*02

3 sequences assigned
No exact matches.



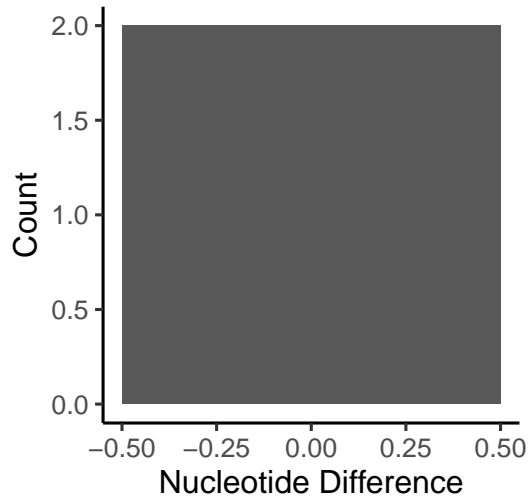
IGHV3-49*04

206 sequences assigned
135 (65.5%) exact matches, in which:
89 unique CDR3
6 unique J



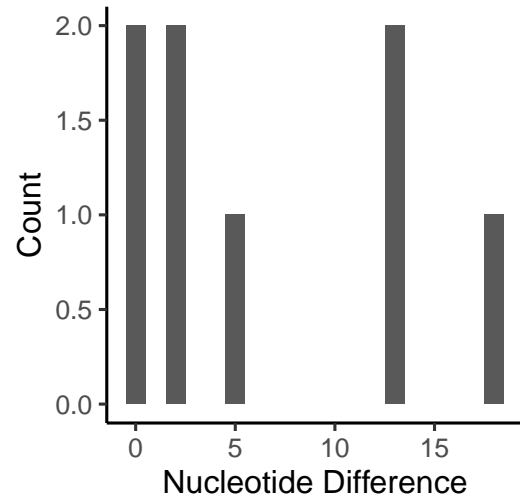
IGHV3-64*02_07

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



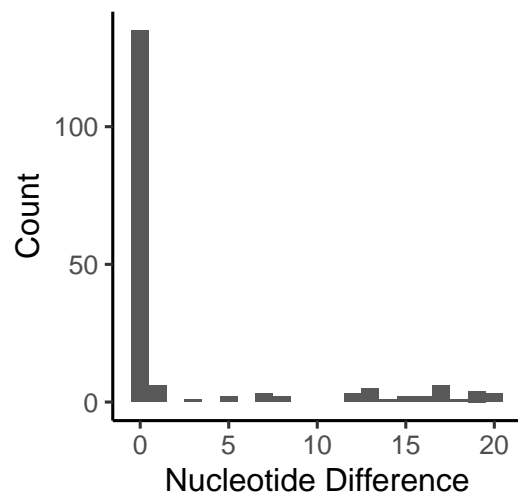
IGHV3-66*03

9 sequences assigned
2 (22.2%) exact matches, in which:
1 unique CDR3
1 unique J



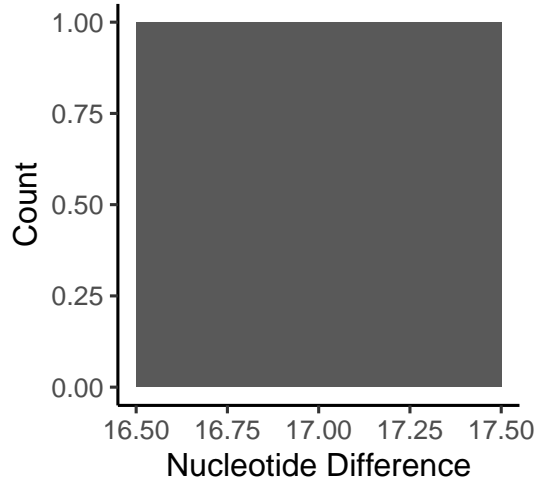
IGHV3-49*03_05

191 sequences assigned
135 (70.7%) exact matches, in which:
92 unique CDR3
4 unique J



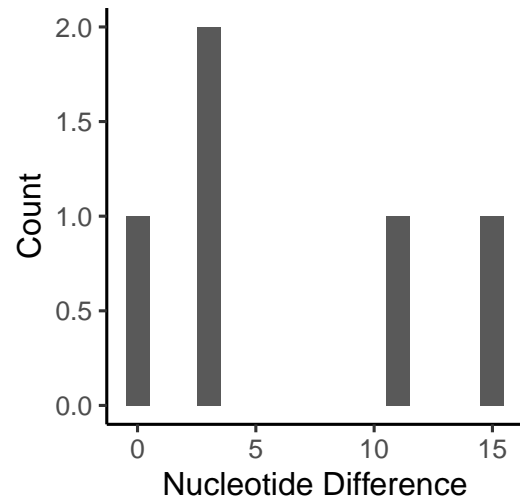
IGHV3-66*01

2 sequences assigned
No exact matches.



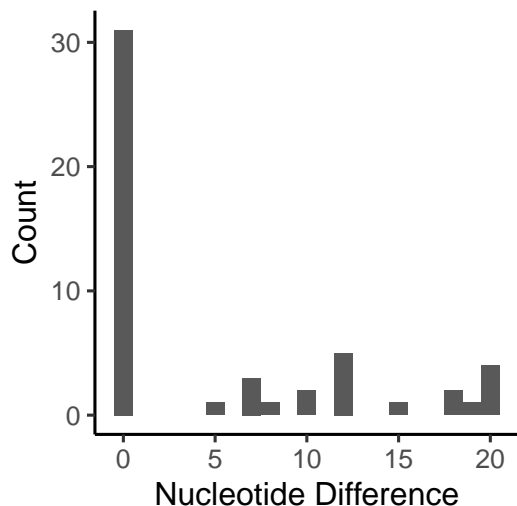
IGHV3-69-1*01

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



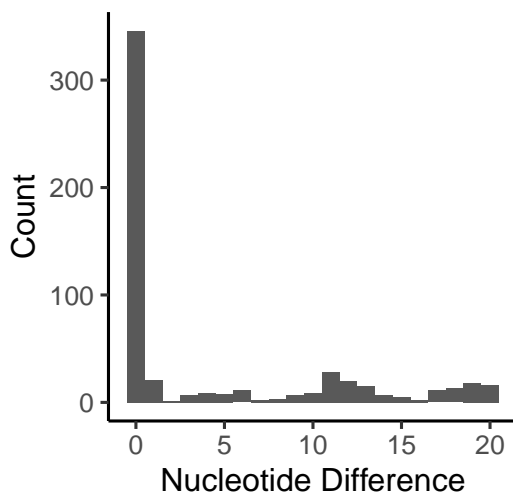
IGHV3-72*01

118 sequences assigned
31 (26.3%) exact matches, in which:
20 unique CDR3
5 unique J



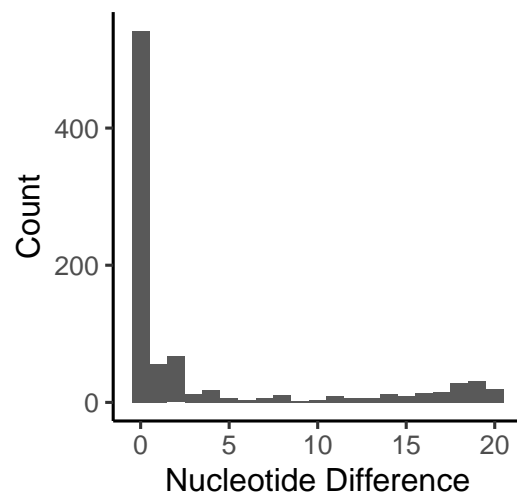
IGHV3-74*01_02

644 sequences assigned
346 (53.7%) exact matches, in which:
198 unique CDR3
6 unique J



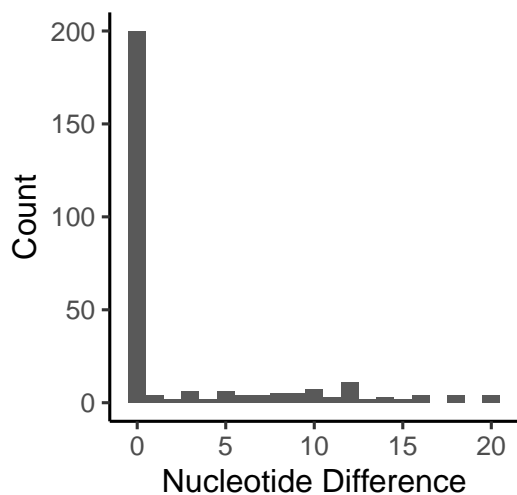
IGHV4-4*02_03

1186 sequences assigned
542 (45.7%) exact matches, in which:
502 unique CDR3
6 unique J



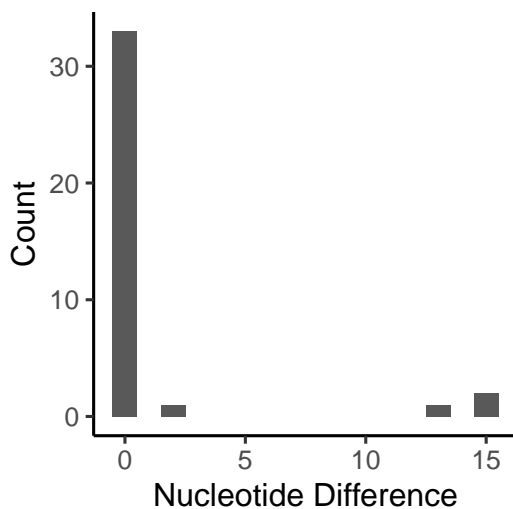
IGHV3-73*01_02

280 sequences assigned
200 (71.4%) exact matches, in which:
115 unique CDR3
5 unique J



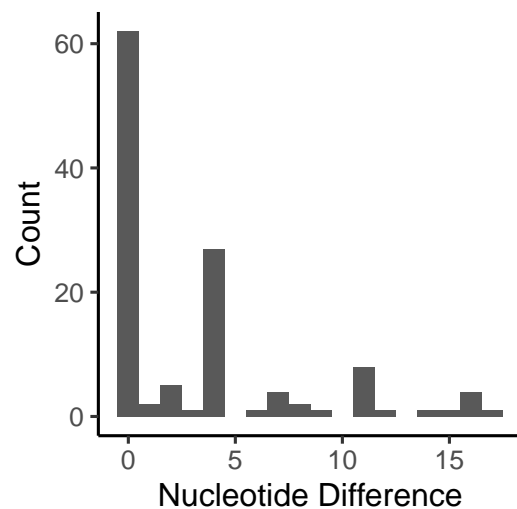
IGHV3-43D*04

38 sequences assigned
33 (86.8%) exact matches, in which:
21 unique CDR3
5 unique J



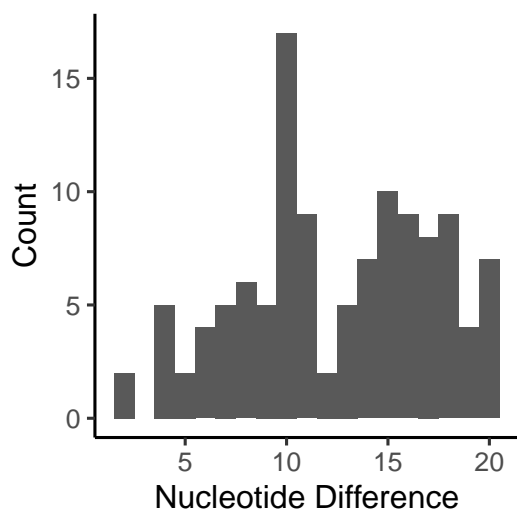
IGHV4-4*07_G291A

124 sequences assigned
62 (50%) exact matches, in which:
62 unique CDR3
6 unique J



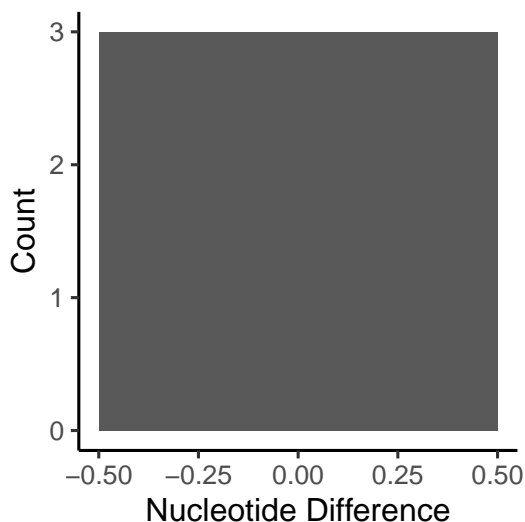
IGHV3-74*03

435 sequences assigned
No exact matches.



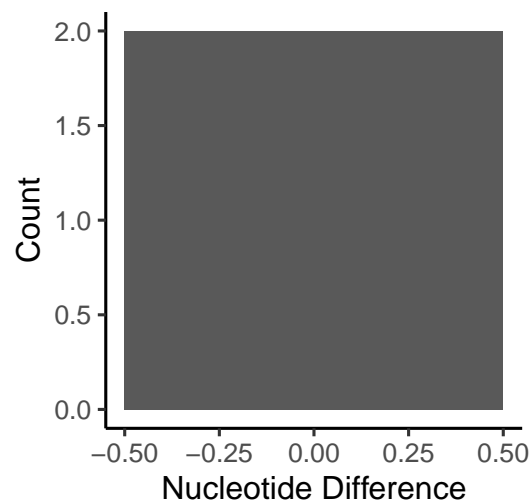
IGHV3-64D*06

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



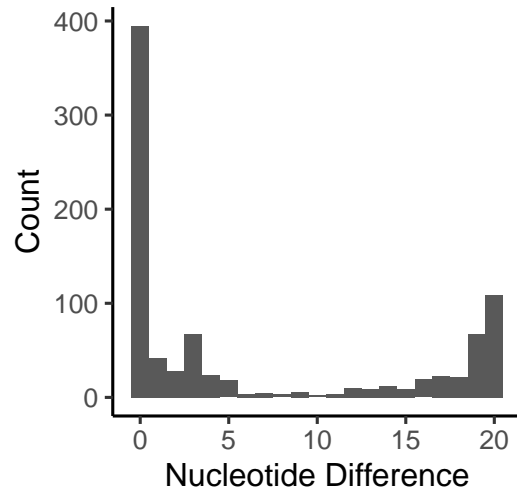
IGHV4-28*01_07

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



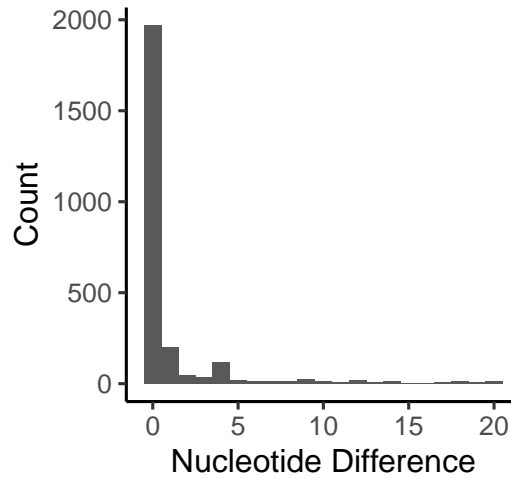
IGHV4-30-4*01

927 sequences assigned
395 (42.6%) exact matches, in which:
381 unique CDR3
6 unique J



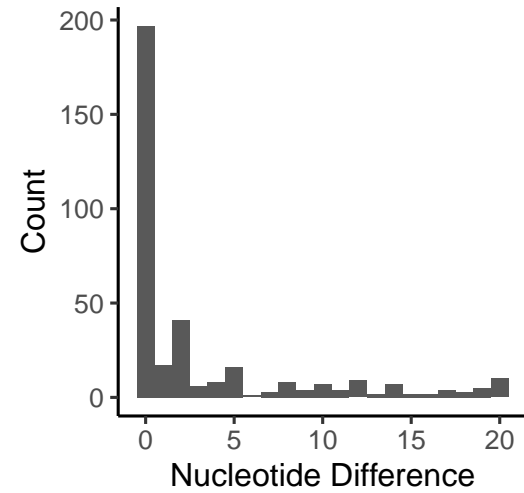
IGHV4-34*01_02

2724 sequences assigned
1969 (72.3%) exact matches, in which:
1800 unique CDR3
6 unique J



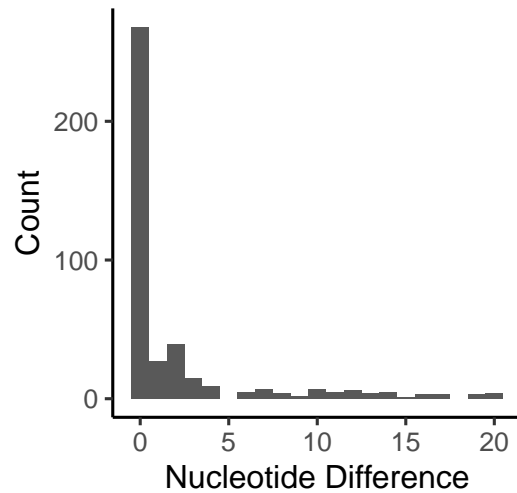
IGHV4-38-2*02_A70G

473 sequences assigned
197 (41.6%) exact matches, in which:
178 unique CDR3
5 unique J



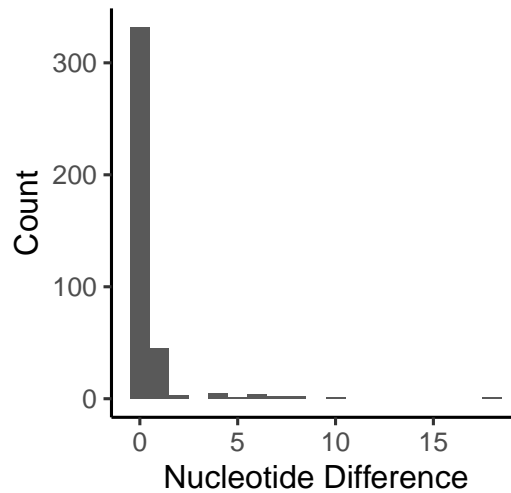
IGHV4-30-2*01

455 sequences assigned
268 (58.9%) exact matches, in which:
205 unique CDR3
6 unique J



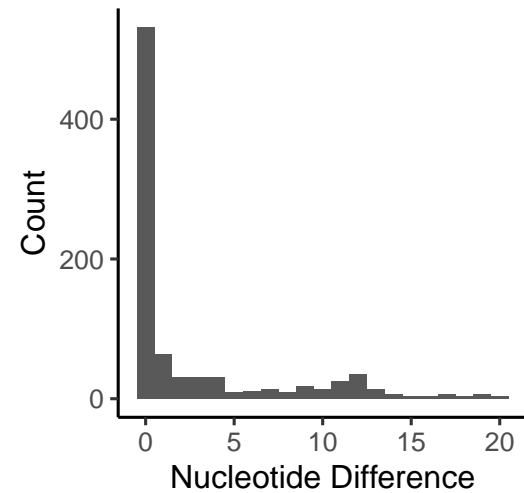
IGHV4-34*01_02_C288T

399 sequences assigned
332 (83.2%) exact matches, in which:
331 unique CDR3
6 unique J



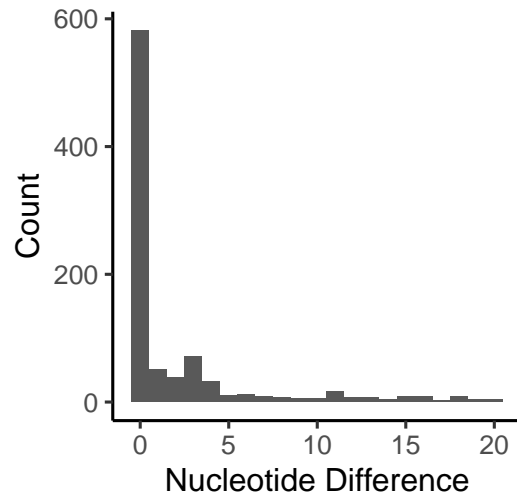
IGHV4-39*02_C258G

1055 sequences assigned
532 (50.4%) exact matches, in which:
490 unique CDR3
6 unique J



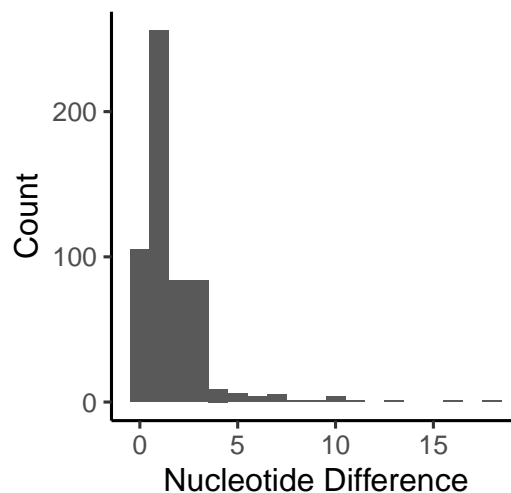
IGHV4-31*02

1041 sequences assigned
582 (55.9%) exact matches, in which:
569 unique CDR3
6 unique J



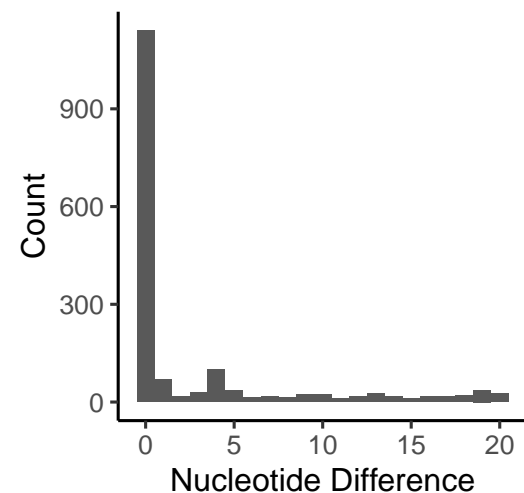
IGHV4-34*01_02_T300C

575 sequences assigned
105 (18.3%) exact matches, in which:
104 unique CDR3
5 unique J



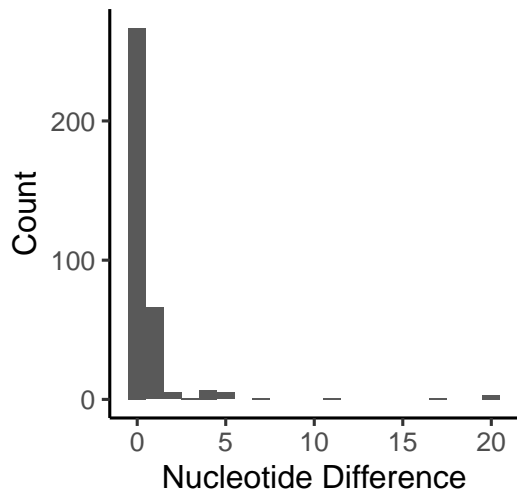
IGHV4-59*02_G88A

1873 sequences assigned
1141 (60.9%) exact matches, in which:
1107 unique CDR3
6 unique J



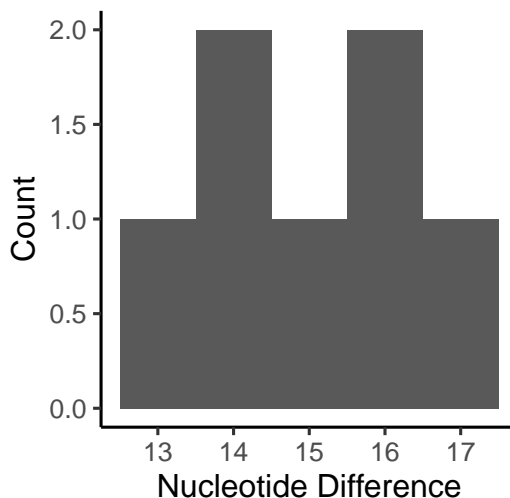
IGHV4–59*12_C300T

358 sequences assigned
267 (74.6%) exact matches, in which:
266 unique CDR3
6 unique J



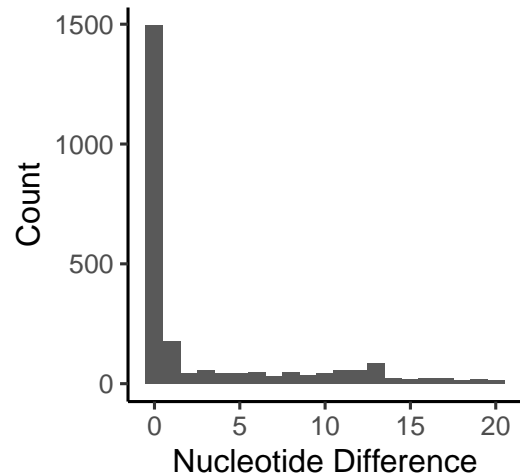
IGHV4/OR15–8*01

8 sequences assigned
No exact matches.



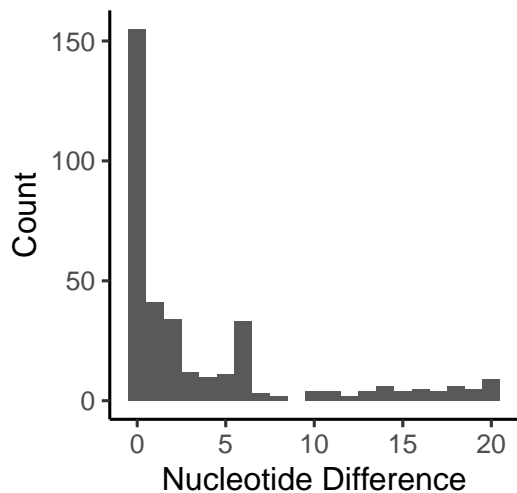
IGHV5–51*07_A128G

2513 sequences assigned
1495 (59.5%) exact matches, in which:
971 unique CDR3
6 unique J



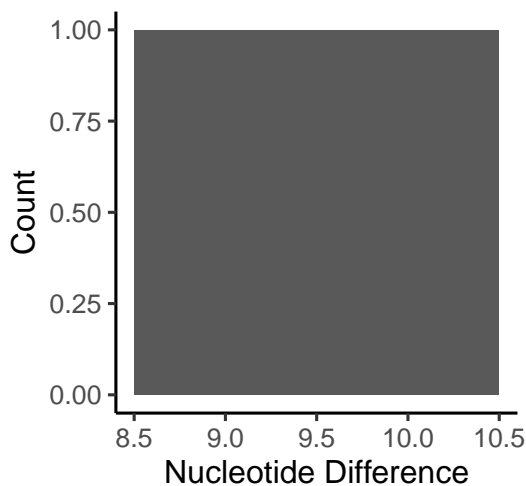
IGHV4–61*01

457 sequences assigned
155 (33.9%) exact matches, in which:
154 unique CDR3
6 unique J



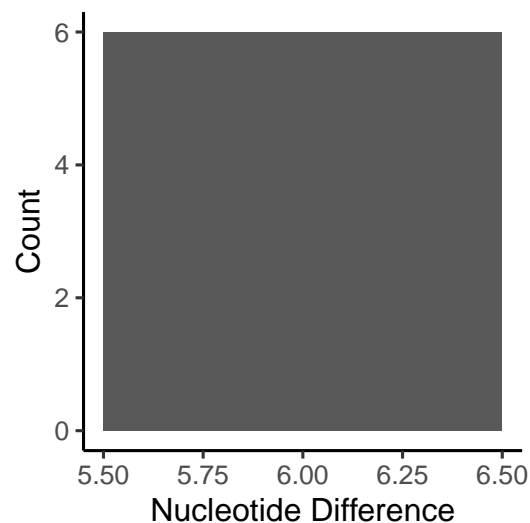
IGHV4/OR15–8*02

19 sequences assigned
No exact matches.



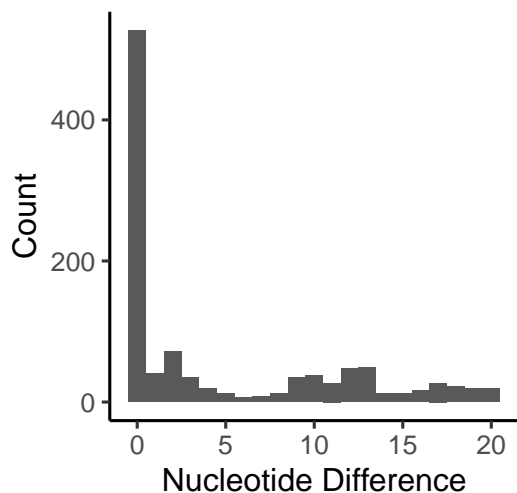
IGHV5–78*01

6 sequences assigned
No exact matches.



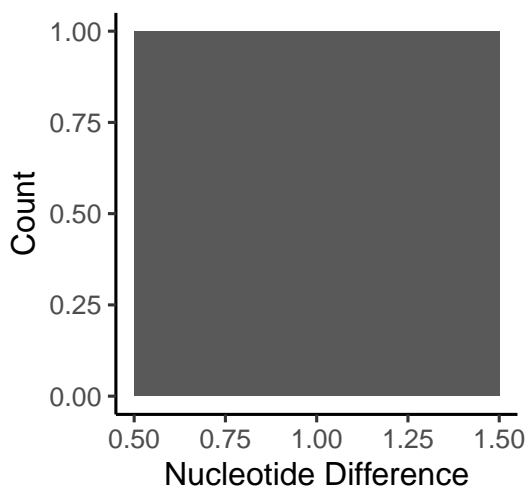
IGHV4–61*02_A234G

1317 sequences assigned
527 (40%) exact matches, in which:
518 unique CDR3
6 unique J



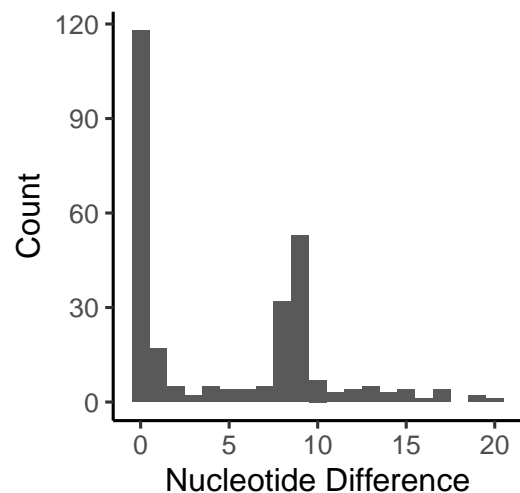
IGHV4/OR15–8*03

2 sequences assigned
No exact matches.



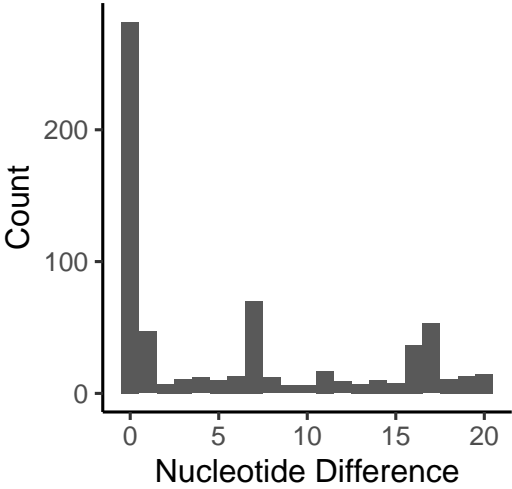
IGHV6–1*01_02

359 sequences assigned
118 (32.9%) exact matches, in which:
115 unique CDR3
6 unique J



IGHV7-4-1*02

1406 sequences assigned
282 (20.1%) exact matches, in which:
276 unique CDR3
6 unique J





Warning – no inferred sequences found.