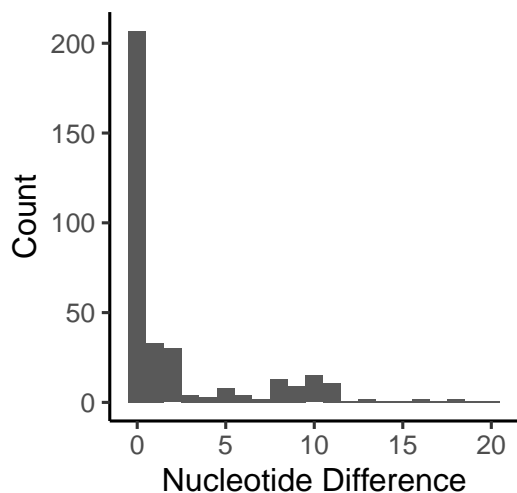


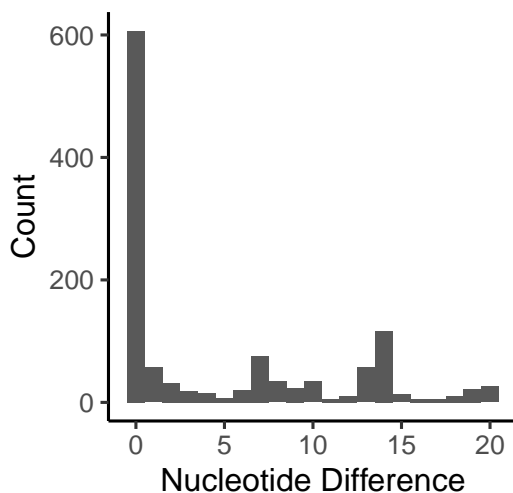
IGHV1-2*04

607 sequences assigned
207 (34.1%) exact matches, in which:
203 unique CDR3
6 unique J



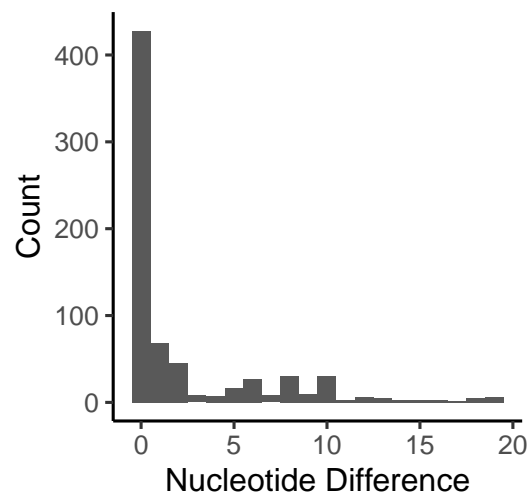
IGHV1-18*04

1262 sequences assigned
607 (48.1%) exact matches, in which:
588 unique CDR3
6 unique J



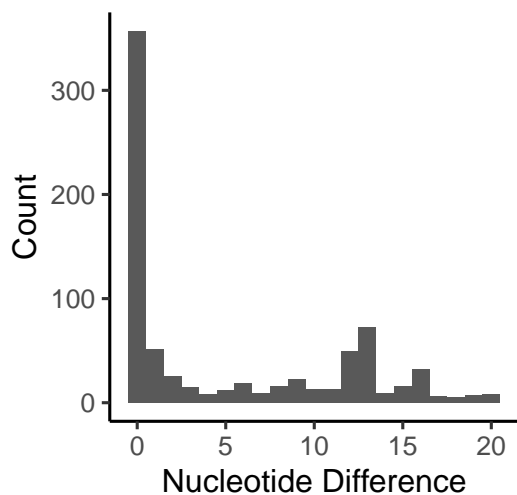
IGHV1-46*01

919 sequences assigned
428 (46.6%) exact matches, in which:
418 unique CDR3
6 unique J



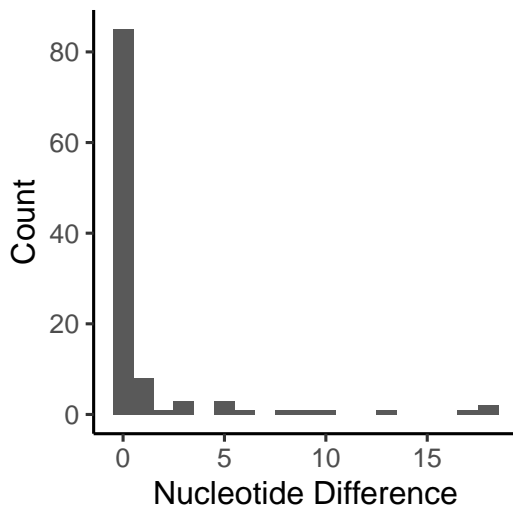
IGHV1-3*01_05

797 sequences assigned
357 (44.8%) exact matches, in which:
346 unique CDR3
6 unique J



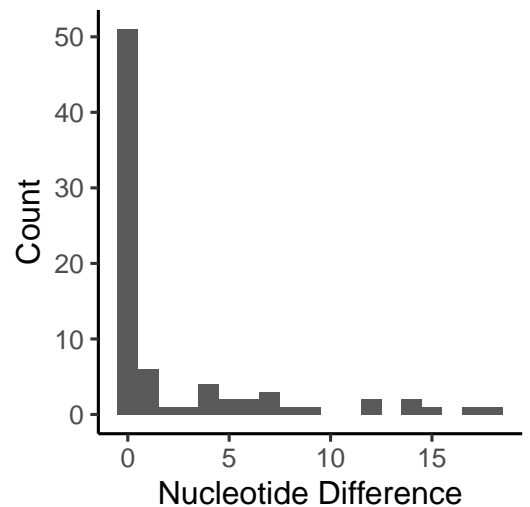
IGHV1-24*01

110 sequences assigned
85 (77.3%) exact matches, in which:
80 unique CDR3
6 unique J



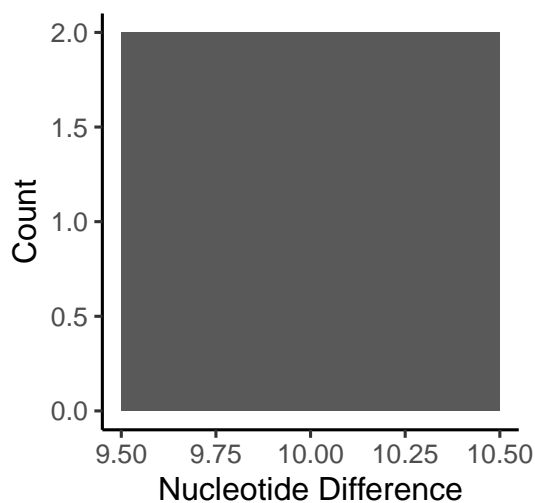
IGHV1-58*01_03

80 sequences assigned
51 (63.8%) exact matches, in which:
50 unique CDR3
5 unique J



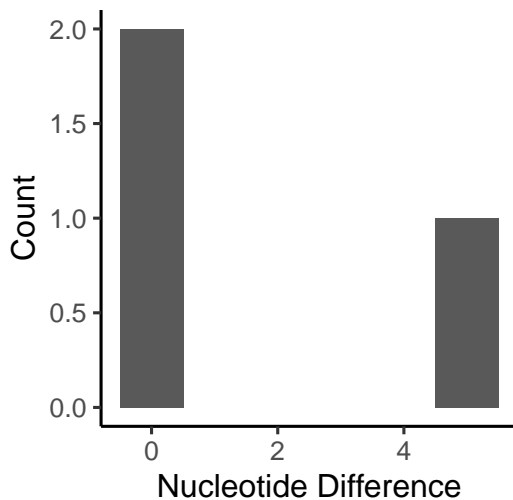
IGHV1-8*03

2 sequences assigned
No exact matches.



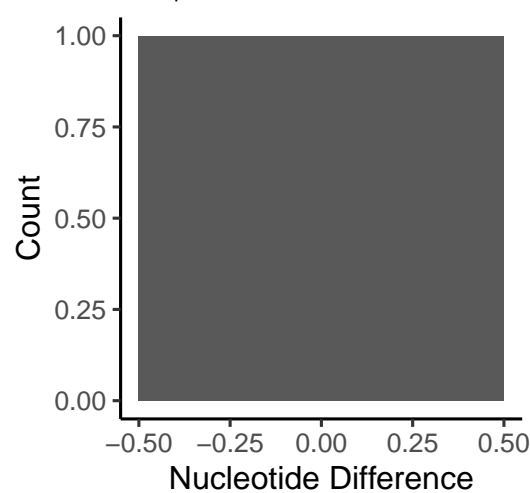
IGHV1-45*02

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



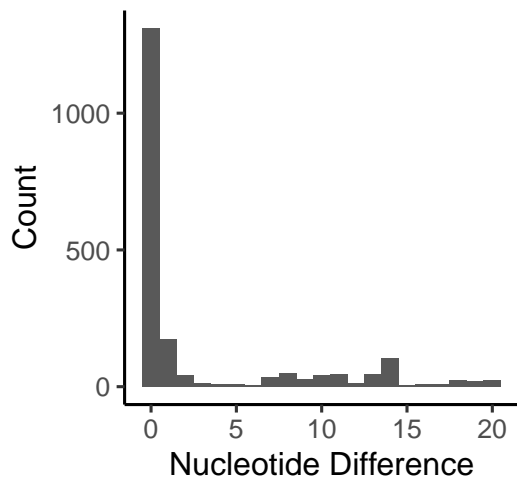
IGHV1-68*01

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



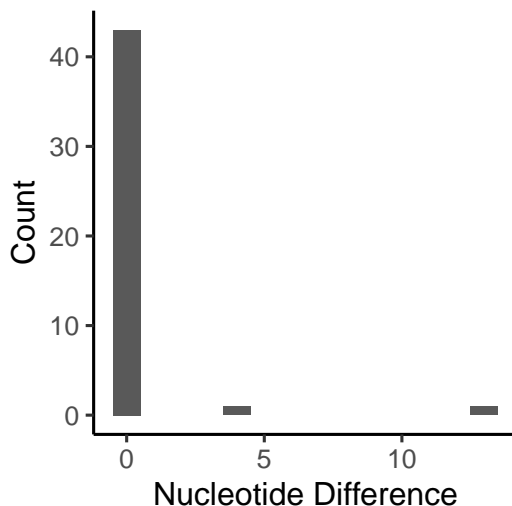
IGHV1-69*01_12_13

2363 sequences assigned
1310 (55.4%) exact matches, in which:
1292 unique CDR3
6 unique J



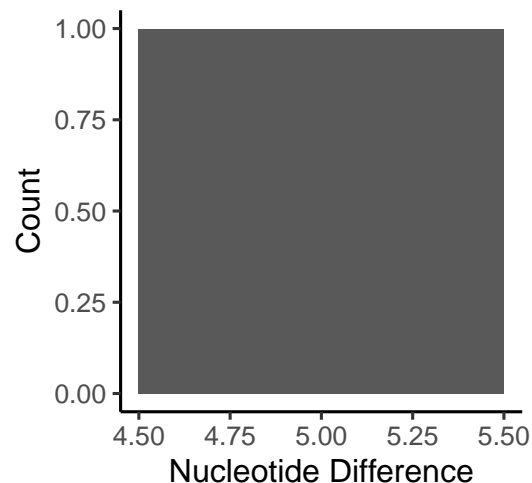
IGHV2-26*01

45 sequences assigned
43 (95.6%) exact matches, in which:
41 unique CDR3
5 unique J



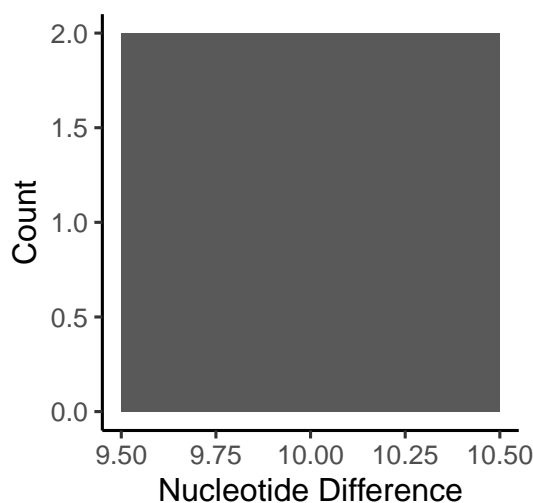
IGHV3-9*01

1 sequences assigned
No exact matches.



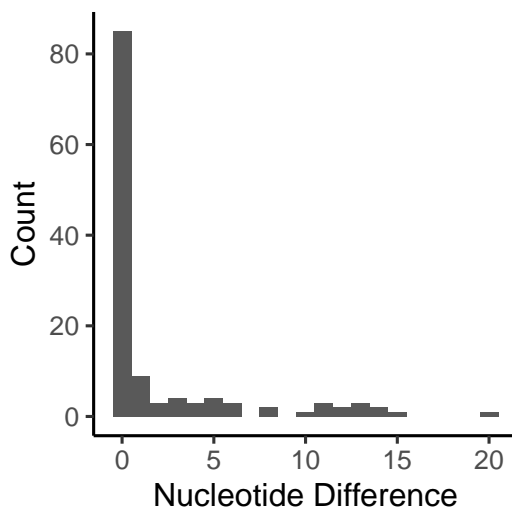
IGHV1-NL1*01

2 sequences assigned
No exact matches.



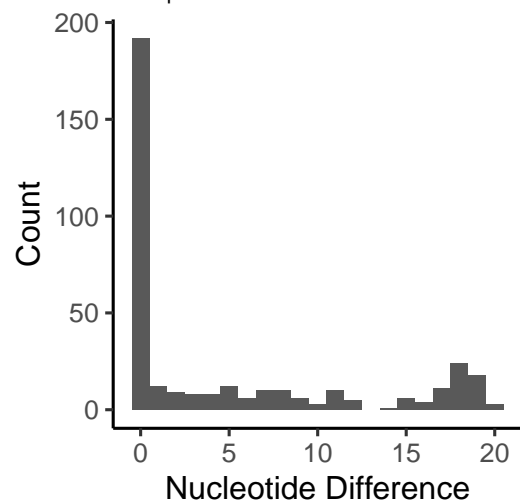
IGHV2-70*01

129 sequences assigned
85 (65.9%) exact matches, in which:
84 unique CDR3
5 unique J



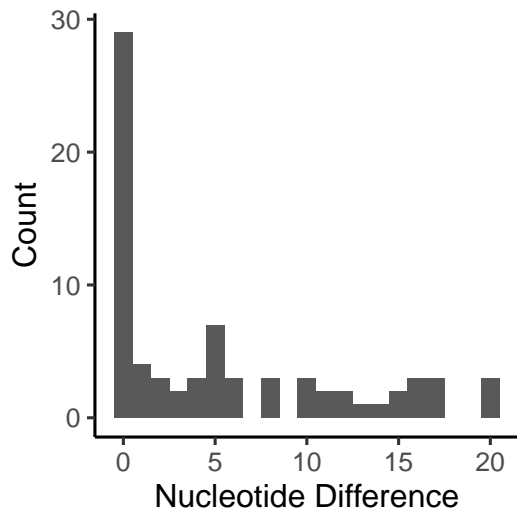
IGHV3-11*06

436 sequences assigned
192 (44%) exact matches, in which:
125 unique CDR3
6 unique J



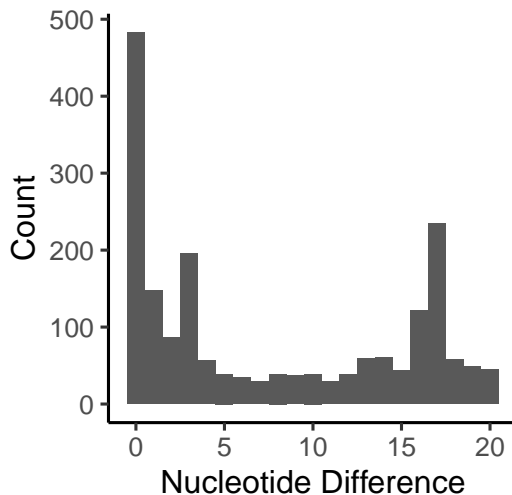
IGHV2-5*02

83 sequences assigned
29 (34.9%) exact matches, in which:
29 unique CDR3
5 unique J



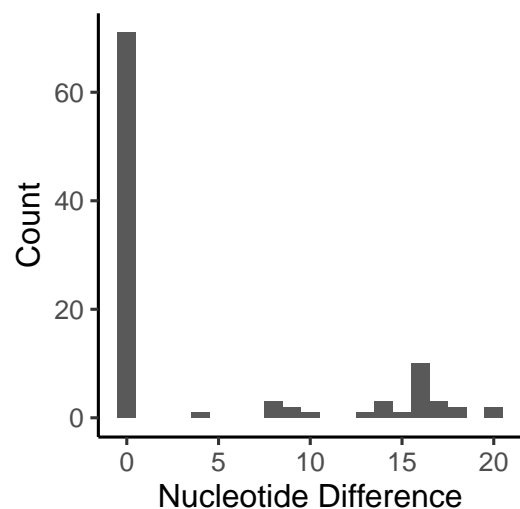
IGHV3-7*03

2805 sequences assigned
483 (17.2%) exact matches, in which:
279 unique CDR3
6 unique J



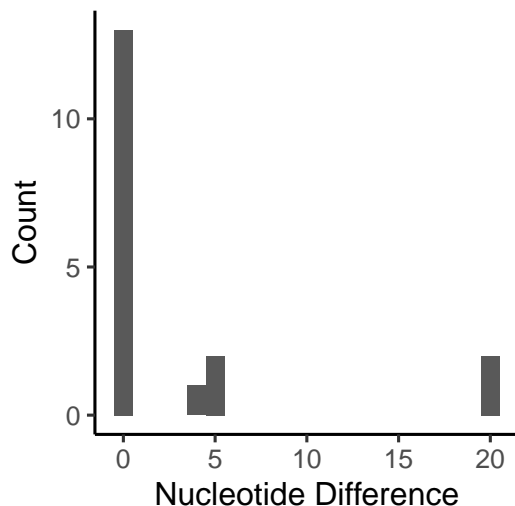
IGHV3-13*04

106 sequences assigned
71 (67%) exact matches, in which:
42 unique CDR3
5 unique J



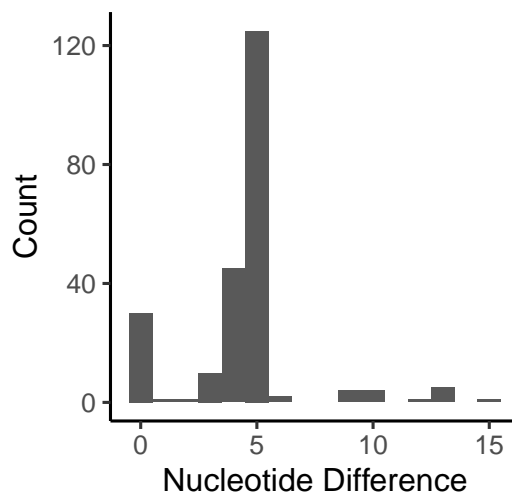
IGHV3-13*05

23 sequences assigned
13 (56.5%) exact matches, in which:
6 unique CDR3
3 unique J



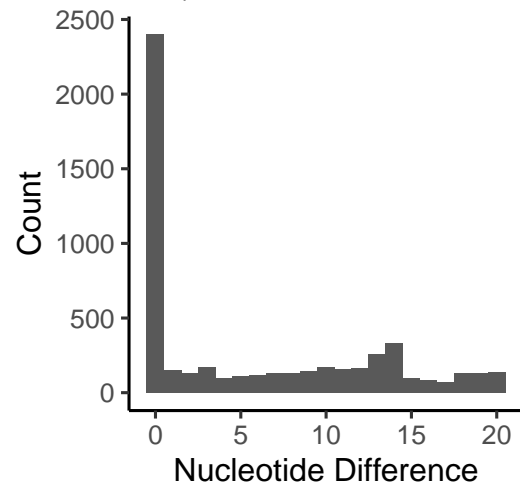
IGHV3-20*01_02

229 sequences assigned
30 (13.1%) exact matches, in which:
20 unique CDR3
5 unique J



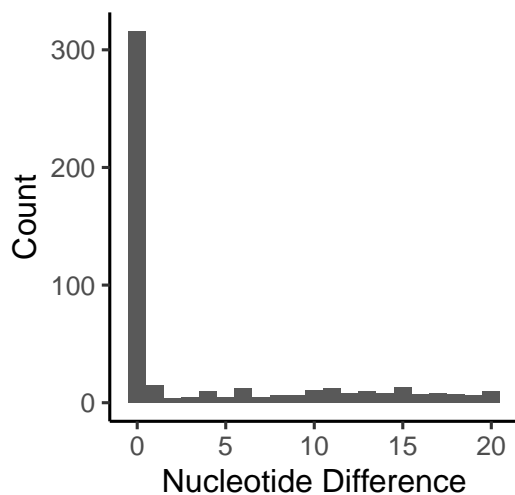
IGHV3-23*01_04

5904 sequences assigned
2400 (40.7%) exact matches, in which:
1439 unique CDR3
6 unique J



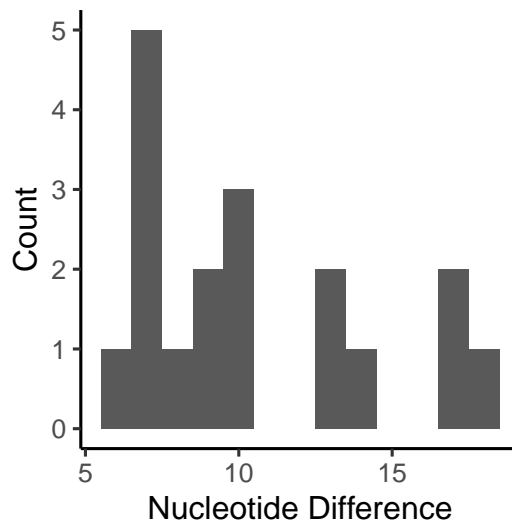
IGHV3-15*01_02

589 sequences assigned
316 (53.7%) exact matches, in which:
208 unique CDR3
5 unique J



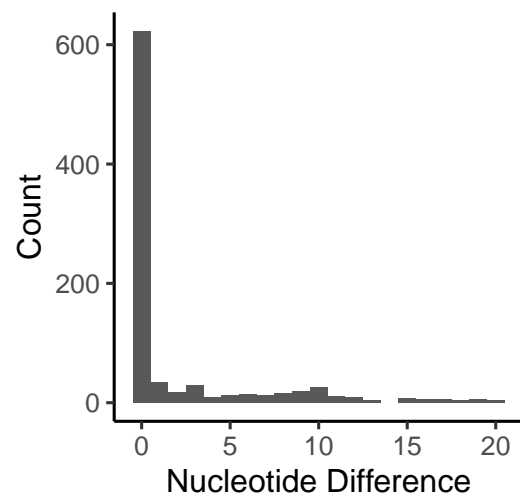
IGHV3-20*03_04

20 sequences assigned
No exact matches.



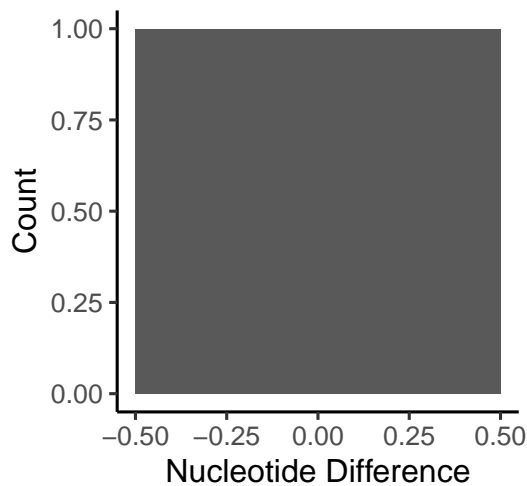
IGHV3-30-3*01

919 sequences assigned
623 (67.8%) exact matches, in which:
399 unique CDR3
6 unique J



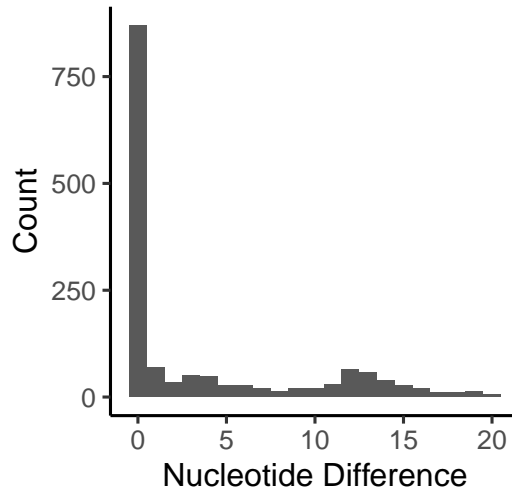
IGHV3-19*01

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



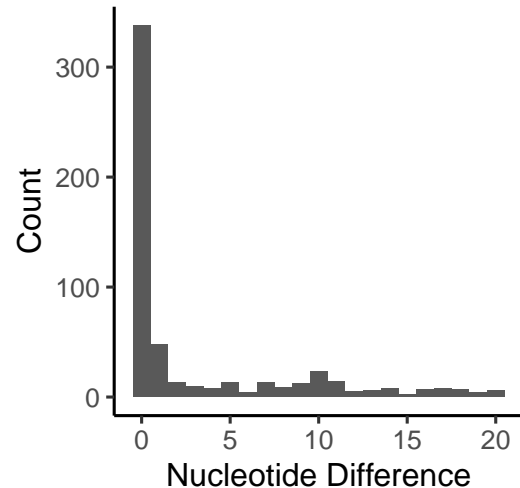
IGHV3-21*01_02

1553 sequences assigned
870 (56%) exact matches, in which:
537 unique CDR3
6 unique J



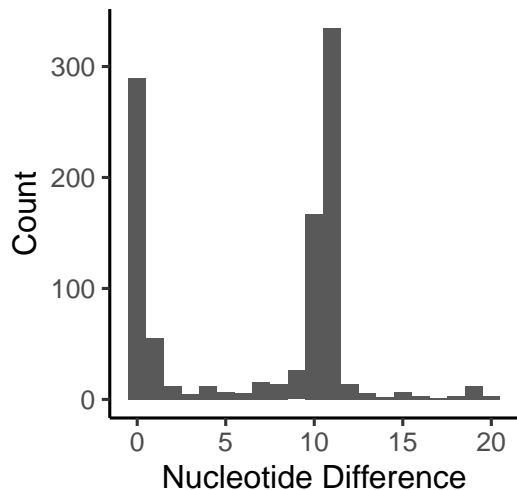
IGHV3-33*01

720 sequences assigned
338 (46.9%) exact matches, in which:
211 unique CDR3
6 unique J



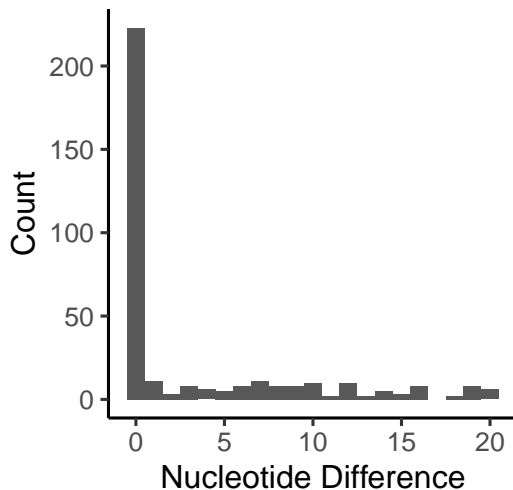
IGHV3–33*06

1188 sequences assigned
290 (24.4%) exact matches, in which:
184 unique CDR3
5 unique J



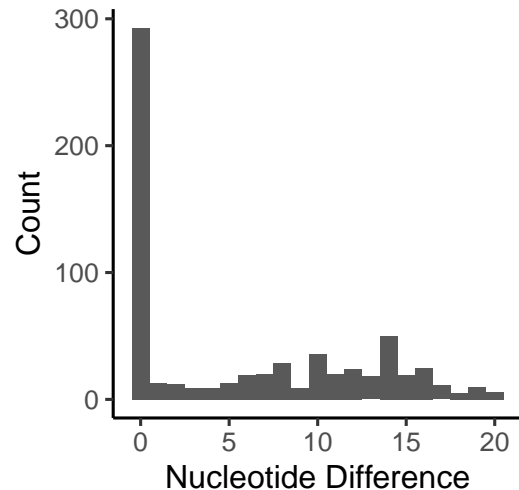
IGHV3–48*02

412 sequences assigned
223 (54.1%) exact matches, in which:
137 unique CDR3
6 unique J



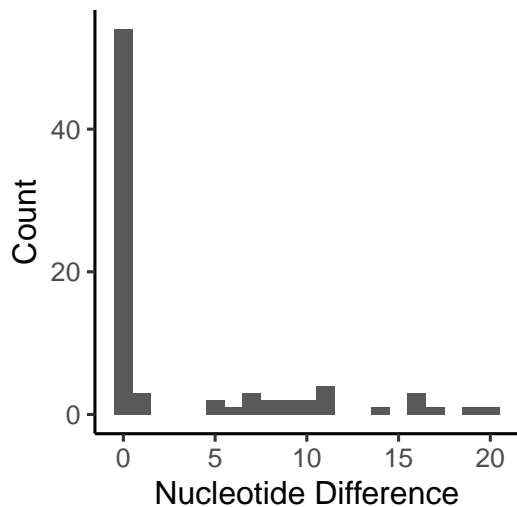
IGHV3–53*01_02

805 sequences assigned
293 (36.4%) exact matches, in which:
176 unique CDR3
6 unique J



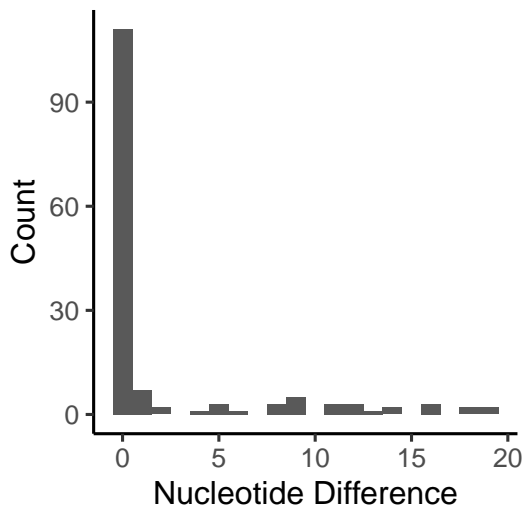
IGHV3–43*01

86 sequences assigned
54 (62.8%) exact matches, in which:
31 unique CDR3
3 unique J



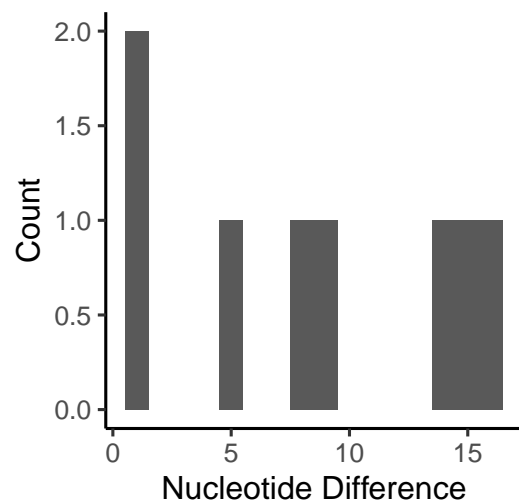
IGHV3–48*02_G289A

160 sequences assigned
111 (69.4%) exact matches, in which:
65 unique CDR3
4 unique J



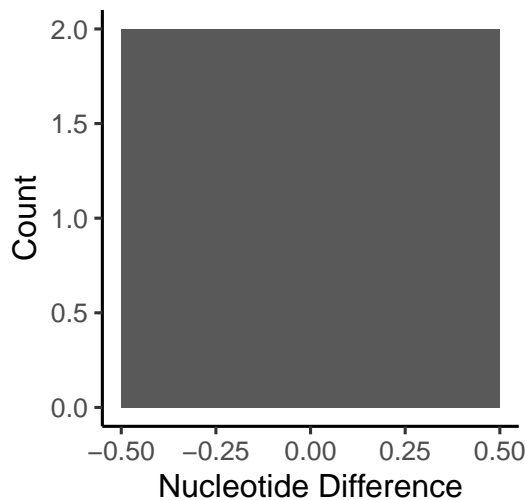
IGHV3–64*04

8 sequences assigned
No exact matches.



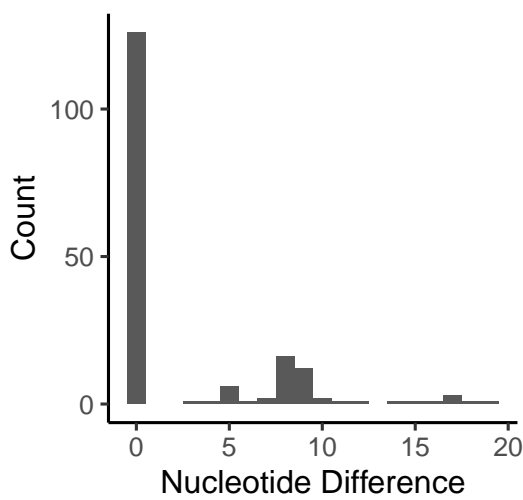
IGHV3–47*02

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



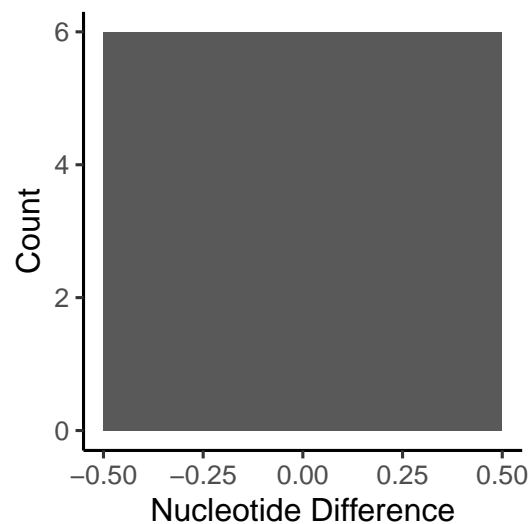
IGHV3–49*03_05

188 sequences assigned
126 (67%) exact matches, in which:
81 unique CDR3
4 unique J



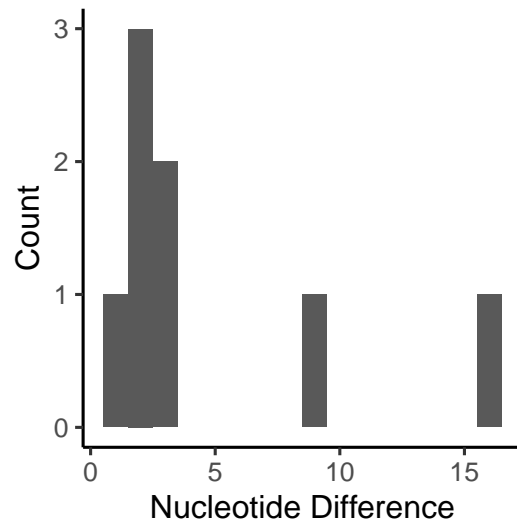
IGHV3–64*02_07

8 sequences assigned
6 (75%) exact matches, in which:
3 unique CDR3
2 unique J



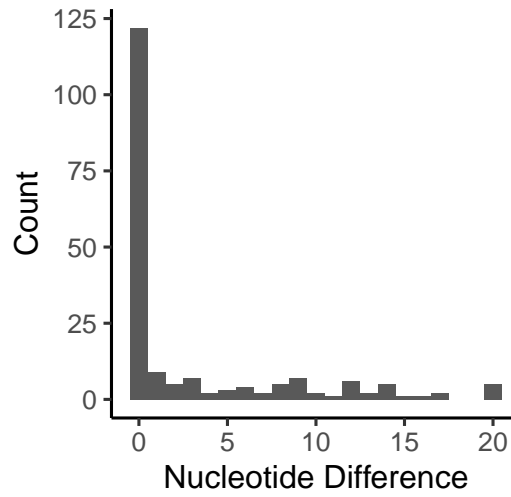
IGHV3-66*03

11 sequences assigned
No exact matches.



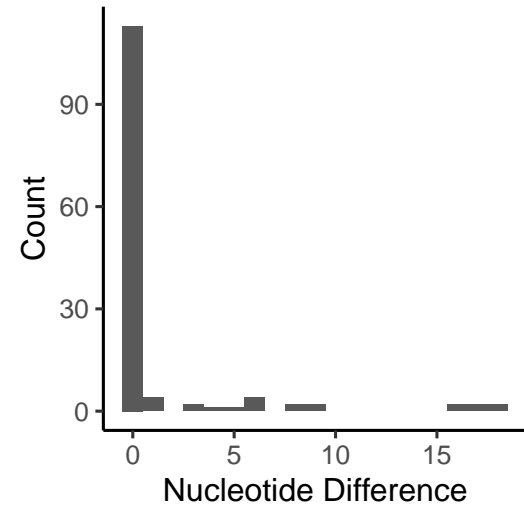
IGHV3-73*01_02

223 sequences assigned
122 (54.7%) exact matches, in which:
74 unique CDR3
4 unique J



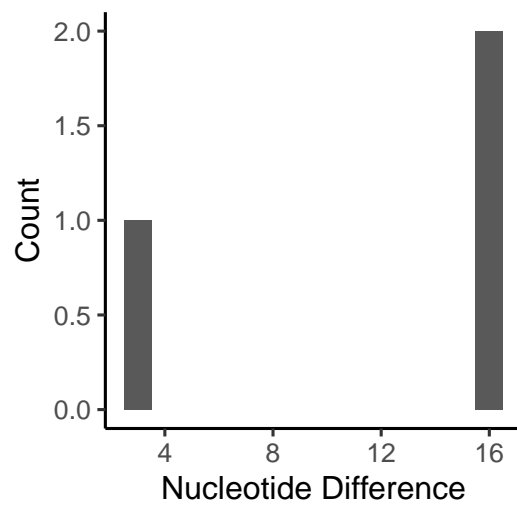
IGHV3-64D*06

148 sequences assigned
113 (76.4%) exact matches, in which:
58 unique CDR3
5 unique J



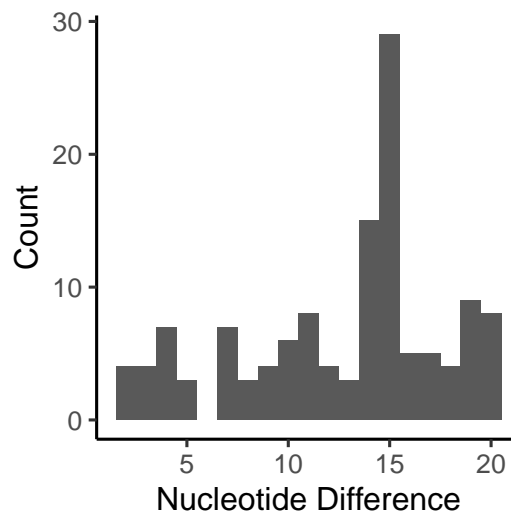
IGHV3-69-1*01

3 sequences assigned
No exact matches.



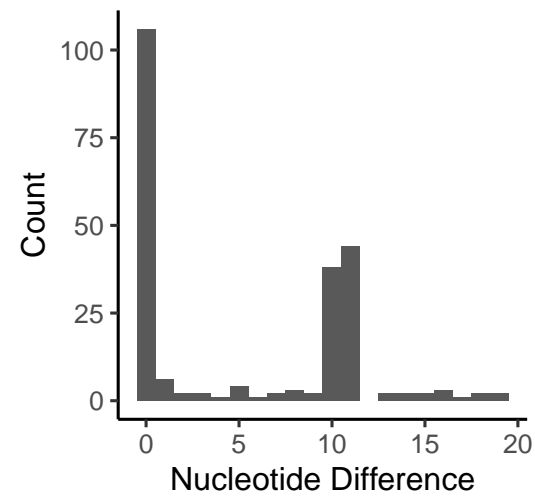
IGHV3-74*03

227 sequences assigned
No exact matches.



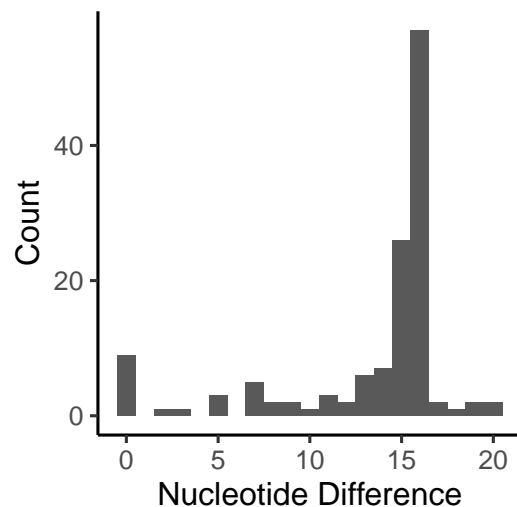
IGHV3-64D*09

230 sequences assigned
106 (46.1%) exact matches, in which:
62 unique CDR3
5 unique J



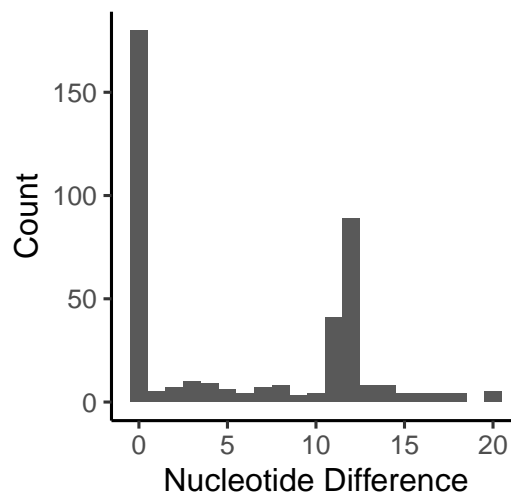
IGHV3-72*01

133 sequences assigned
9 (6.8%) exact matches, in which:
7 unique CDR3
2 unique J



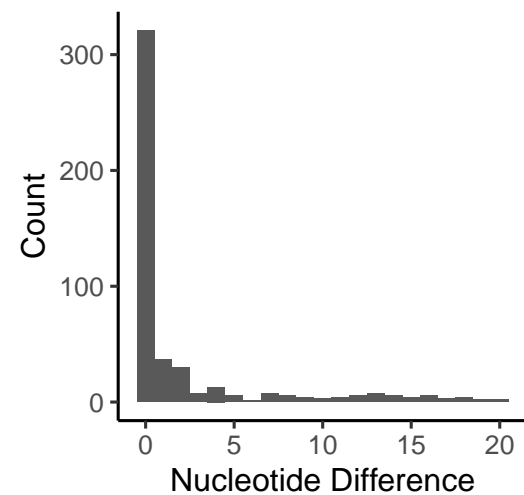
IGHV3-74*01_02

519 sequences assigned
180 (34.7%) exact matches, in which:
104 unique CDR3
6 unique J



IGHV4-4*02_03

582 sequences assigned
321 (55.2%) exact matches, in which:
296 unique CDR3
6 unique J



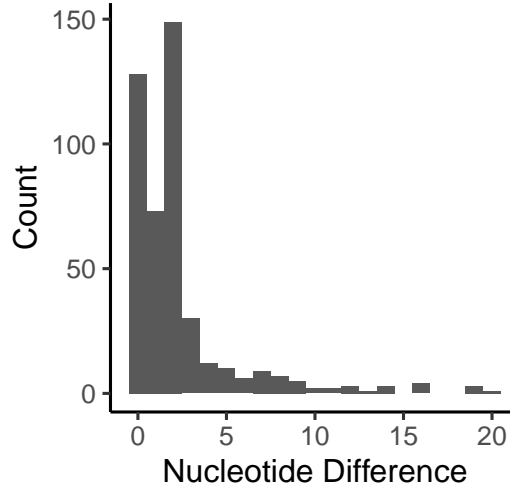
IGHV4-28*03

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



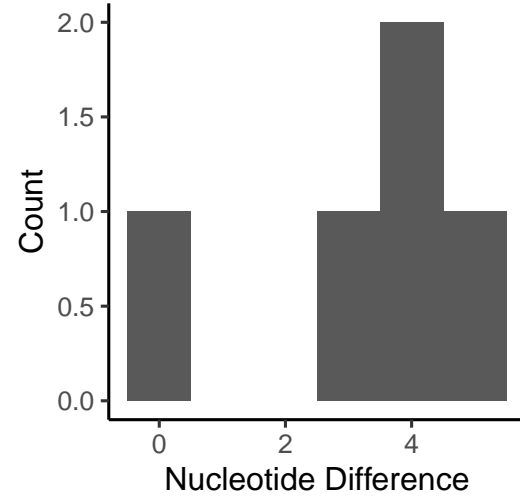
IGHV4-30-4*01

499 sequences assigned
128 (25.7%) exact matches, in which:
125 unique CDR3
6 unique J



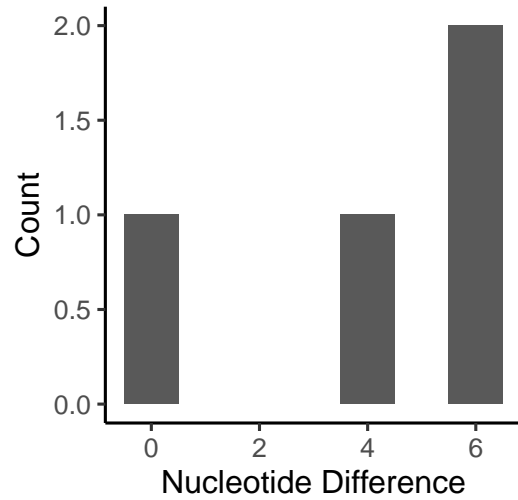
IGHV4-38-2*02

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



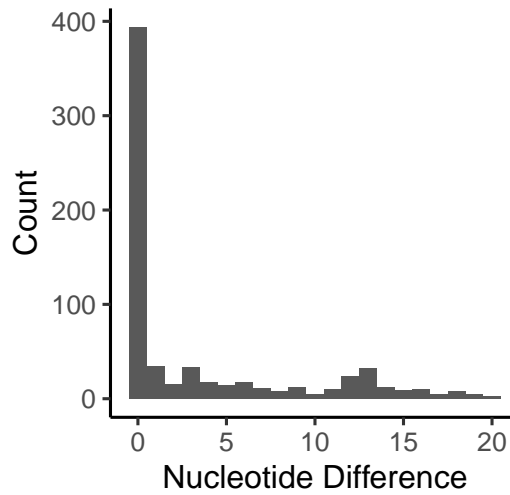
IGHV4-28*01_07

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



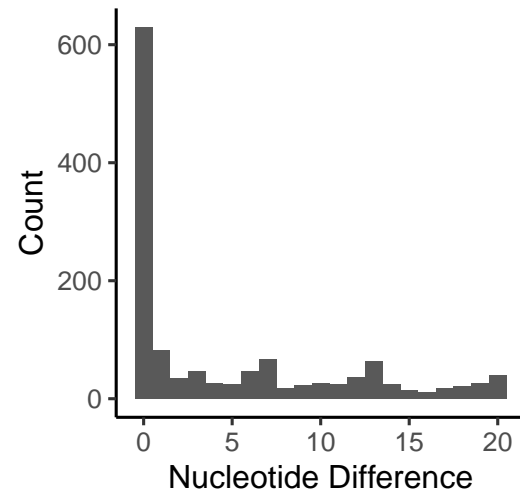
IGHV4-31*02

743 sequences assigned
394 (53%) exact matches, in which:
391 unique CDR3
6 unique J



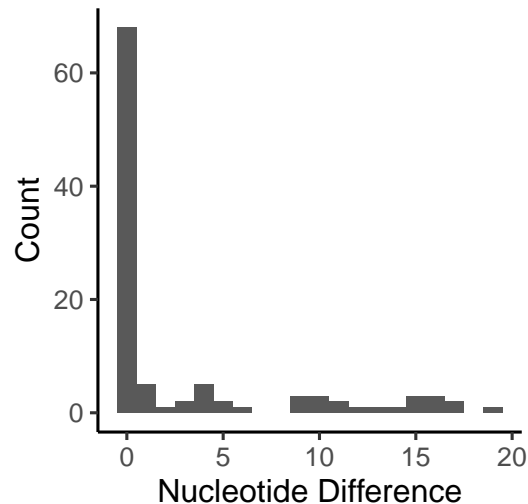
IGHV4-39*02_C258G

1724 sequences assigned
630 (36.5%) exact matches, in which:
601 unique CDR3
6 unique J



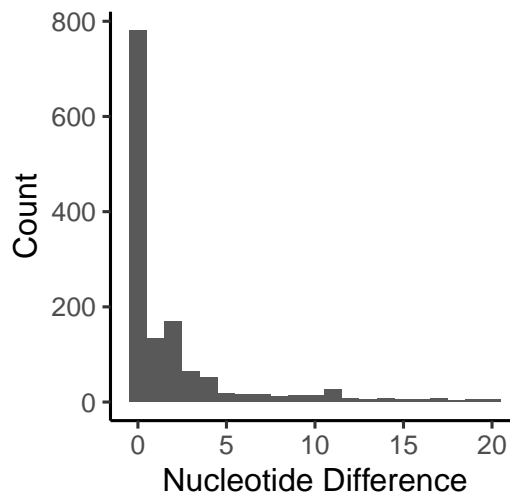
IGHV4-30-2*01

107 sequences assigned
68 (63.6%) exact matches, in which:
60 unique CDR3
5 unique J



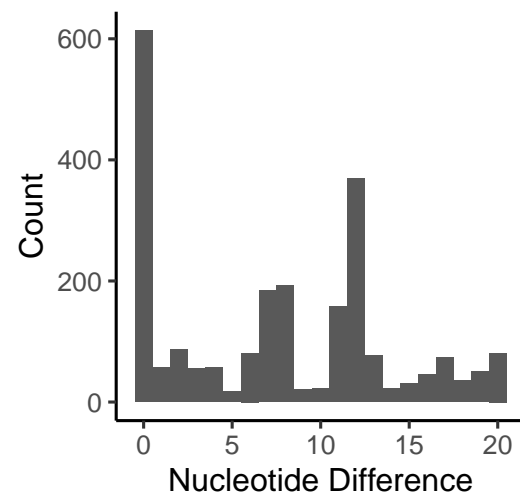
IGHV4-34*01_02

1505 sequences assigned
781 (51.9%) exact matches, in which:
714 unique CDR3
6 unique J



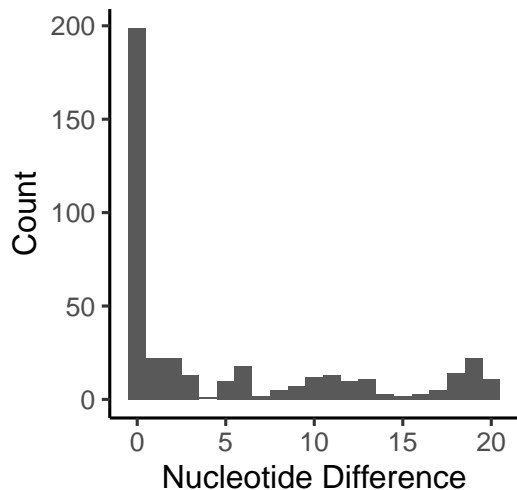
IGHV4-59*02_G88A

2576 sequences assigned
614 (23.8%) exact matches, in which:
599 unique CDR3
6 unique J



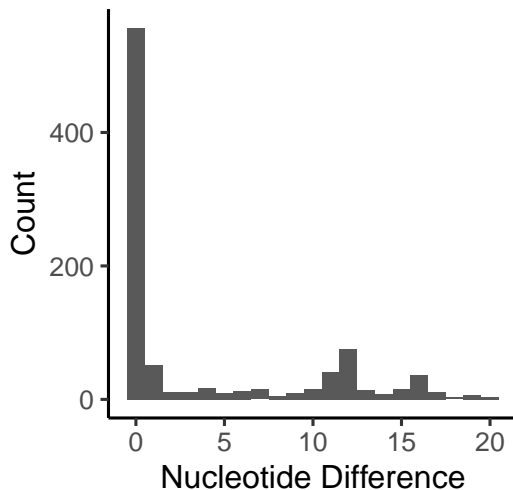
IGHV4–61*01

534 sequences assigned
199 (37.3%) exact matches, in which:
195 unique CDR3
6 unique J



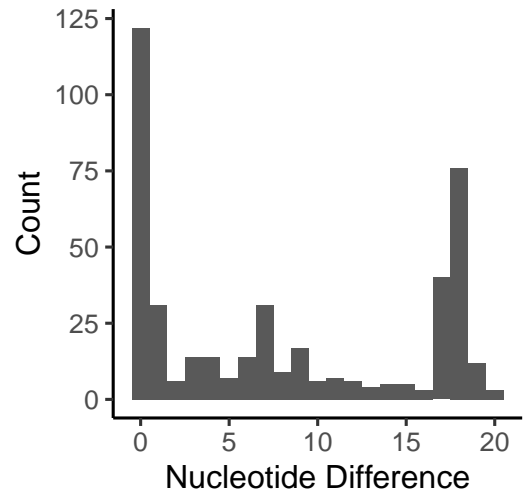
IGHV5–10–1*01_03

960 sequences assigned
557 (58%) exact matches, in which:
384 unique CDR3
6 unique J



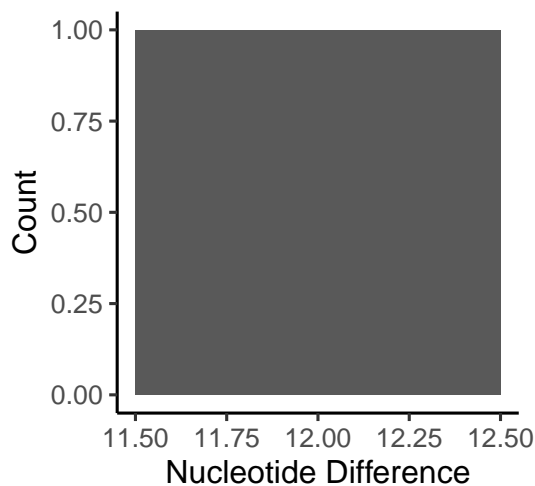
IGHV6–1*01_02

454 sequences assigned
122 (26.9%) exact matches, in which:
118 unique CDR3
6 unique J



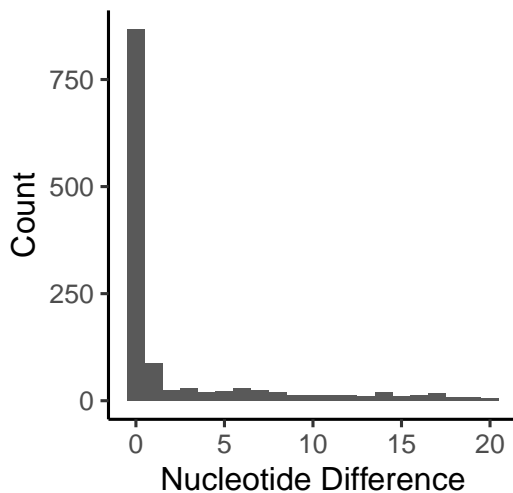
IGHV1/OR15–2*02_03

1 sequences assigned
No exact matches.



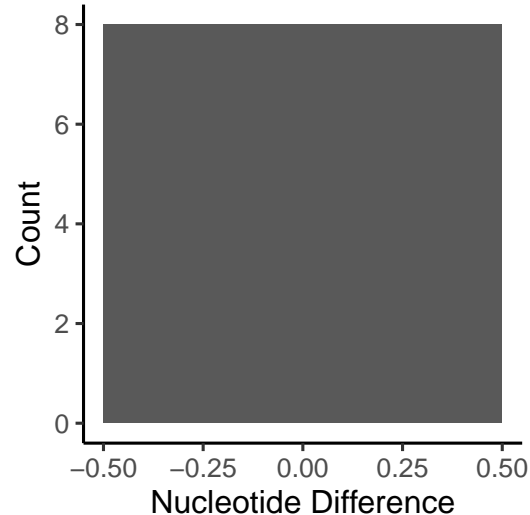
IGHV5–51*07_A128G

1338 sequences assigned
868 (64.9%) exact matches, in which:
563 unique CDR3
5 unique J



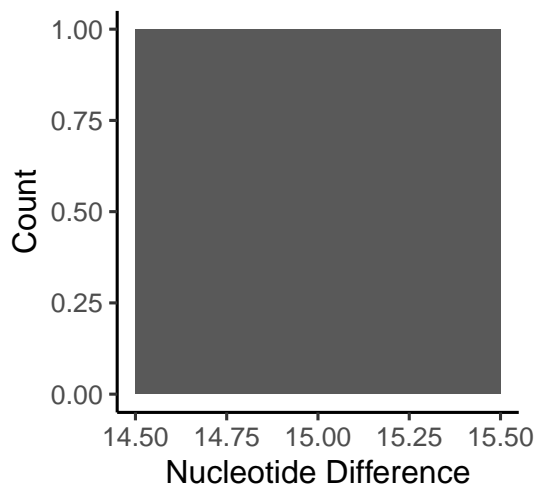
IGHV7–4–1*01

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
3 unique J



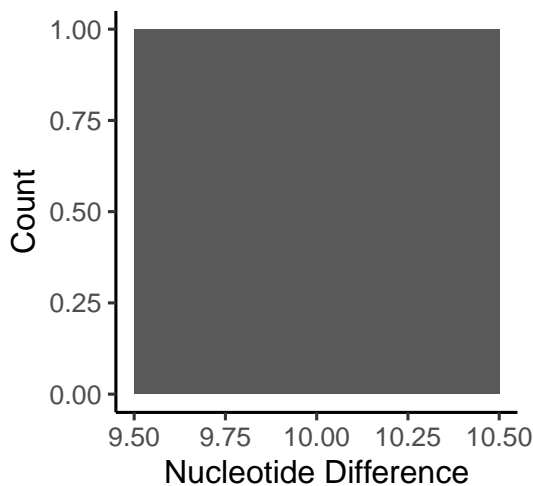
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



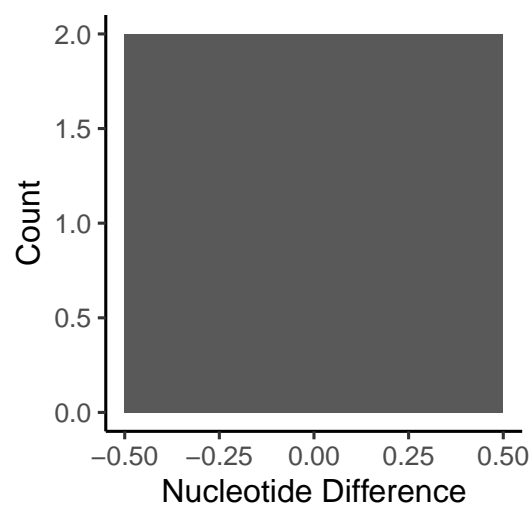
IGHV5–78*01

1 sequences assigned
No exact matches.



IGHV7–4–1*02

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





Warning – no inferred sequences found.