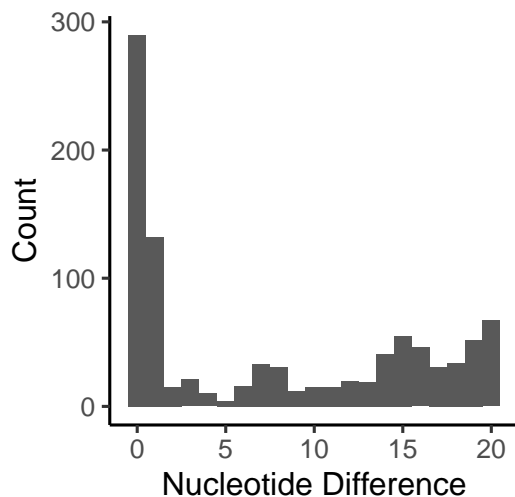


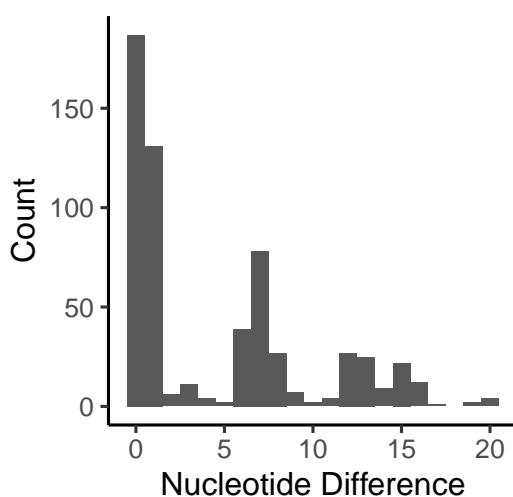
IGHV1-2*02

1252 sequences assigned
290 (23.2%) exact matches, in which:
267 unique CDR3
6 unique J



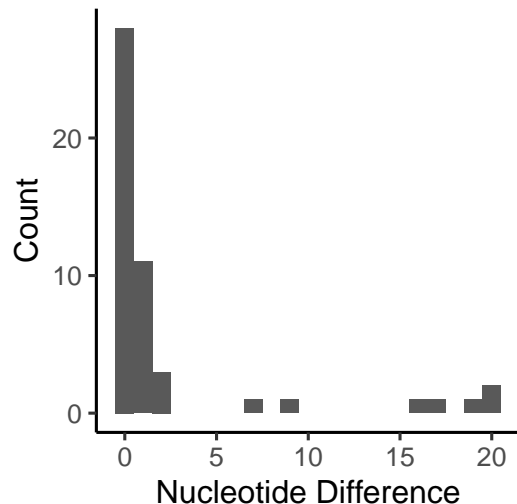
IGHV1-8*01

858 sequences assigned
187 (21.8%) exact matches, in which:
152 unique CDR3
6 unique J



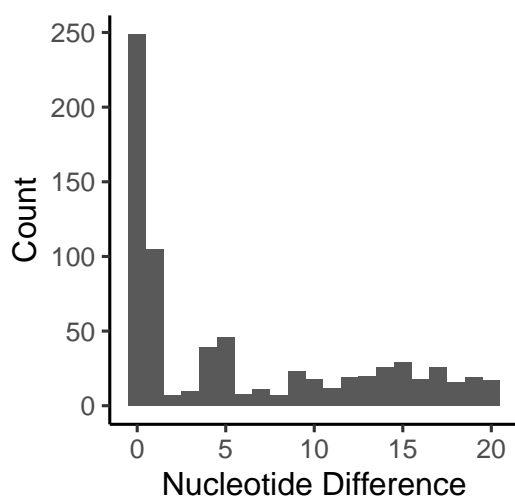
IGHV1-24*01

62 sequences assigned
28 (45.2%) exact matches, in which:
28 unique CDR3
5 unique J



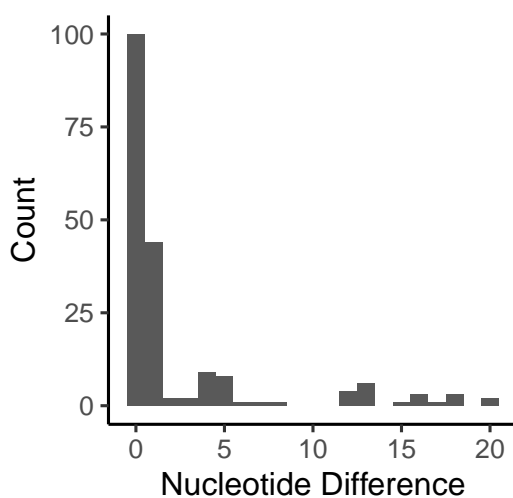
IGHV1-2*06

863 sequences assigned
249 (28.9%) exact matches, in which:
230 unique CDR3
6 unique J



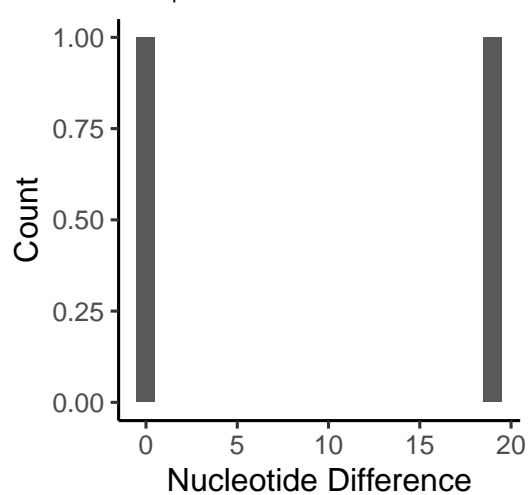
IGHV1-8*03

209 sequences assigned
100 (47.8%) exact matches, in which:
90 unique CDR3
5 unique J



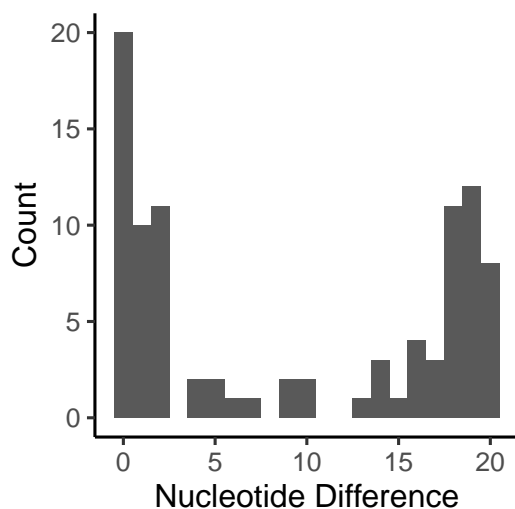
IGHV1-45*02

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



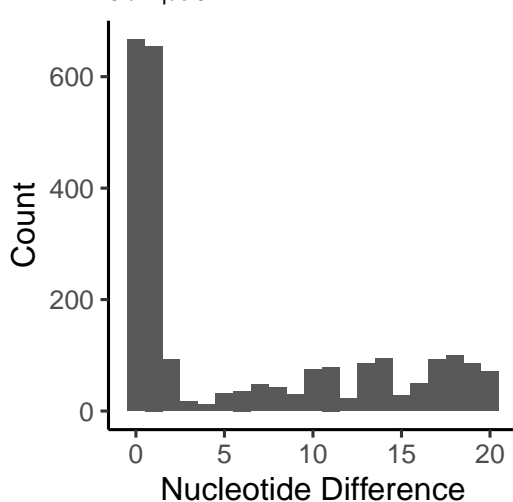
IGHV1-3*03_C309T

140 sequences assigned
20 (14.3%) exact matches, in which:
20 unique CDR3
4 unique J



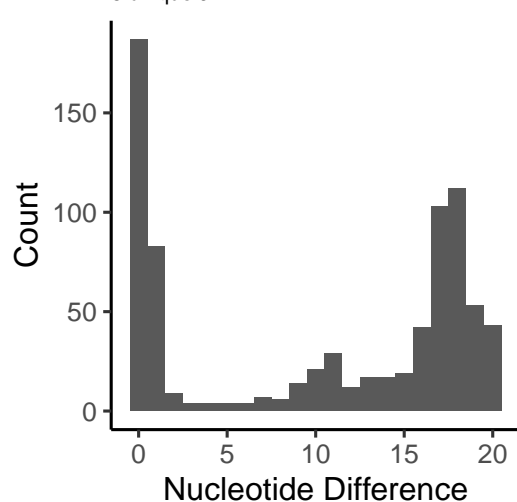
IGHV1-18*01

2949 sequences assigned
667 (22.6%) exact matches, in which:
548 unique CDR3
6 unique J



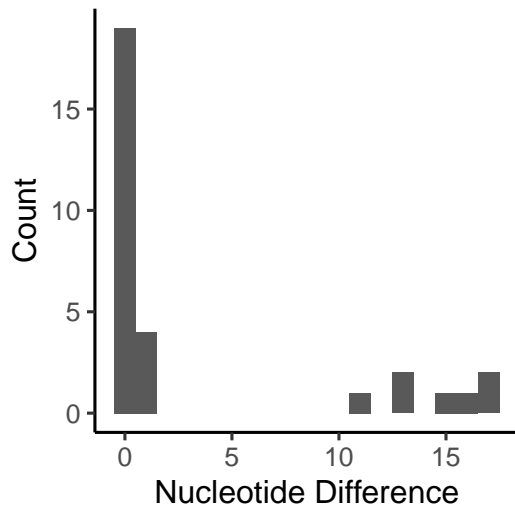
IGHV1-46*01

1411 sequences assigned
187 (13.3%) exact matches, in which:
161 unique CDR3
5 unique J



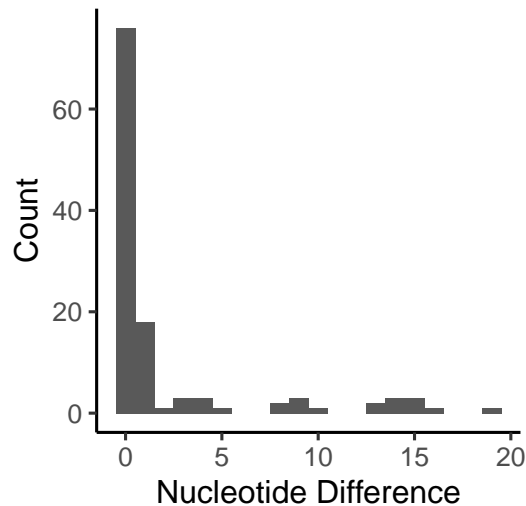
IGHV1-58*02

47 sequences assigned
19 (40.4%) exact matches, in which:
19 unique CDR3
4 unique J



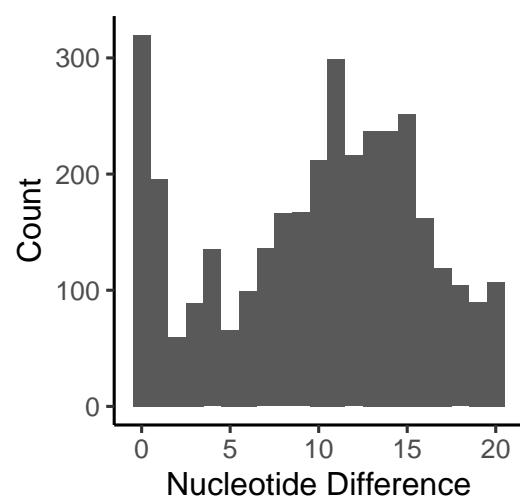
IGHV1-69*10

176 sequences assigned
76 (43.2%) exact matches, in which:
73 unique CDR3
6 unique J



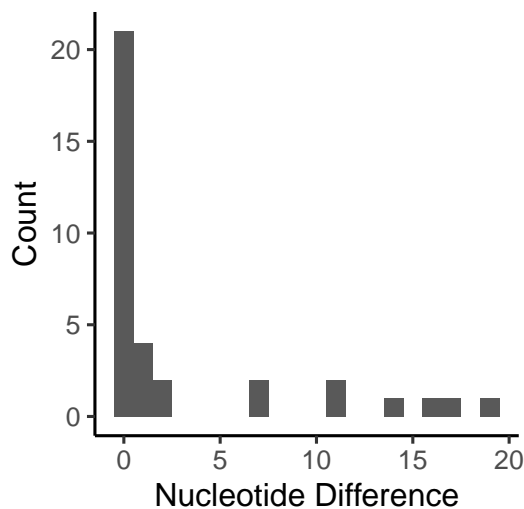
IGHV3-7*01

4026 sequences assigned
320 (7.9%) exact matches, in which:
274 unique CDR3
6 unique J



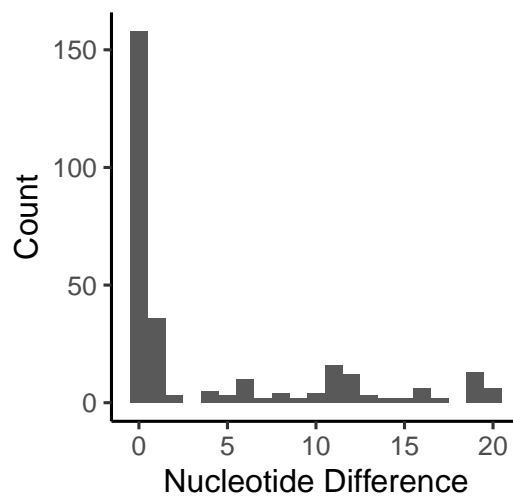
IGHV1-69-2*01

52 sequences assigned
21 (40.4%) exact matches, in which:
19 unique CDR3
4 unique J



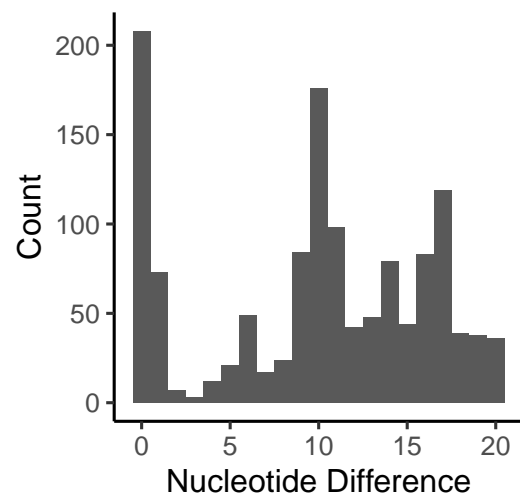
IGHV1-69*10_A244G

367 sequences assigned
158 (43.1%) exact matches, in which:
147 unique CDR3
6 unique J



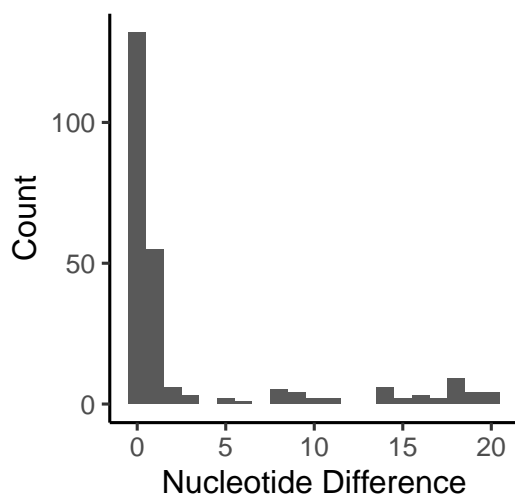
IGHV3-9*01

1735 sequences assigned
208 (12%) exact matches, in which:
189 unique CDR3
6 unique J



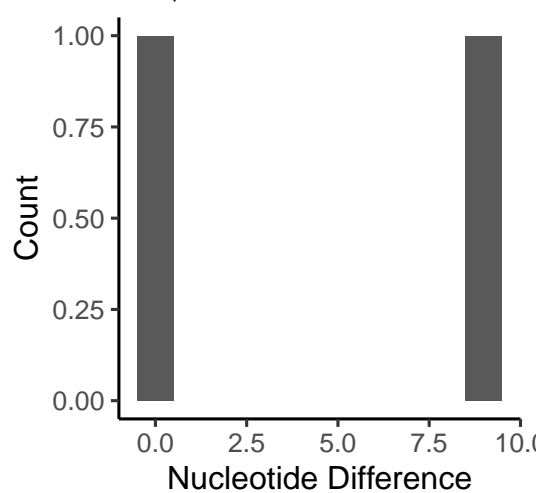
IGHV1-69*01_12_13

353 sequences assigned
132 (37.4%) exact matches, in which:
123 unique CDR3
6 unique J



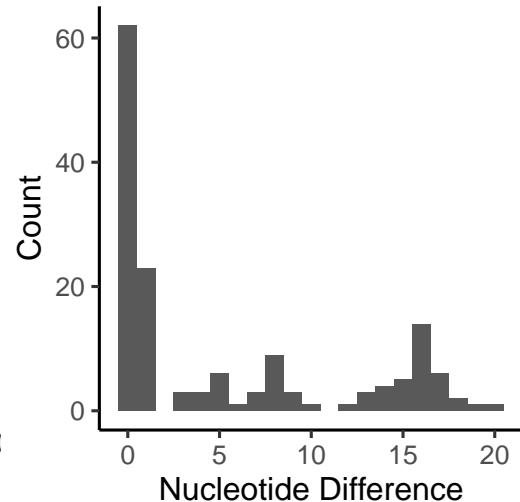
IGHV2-5*01

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



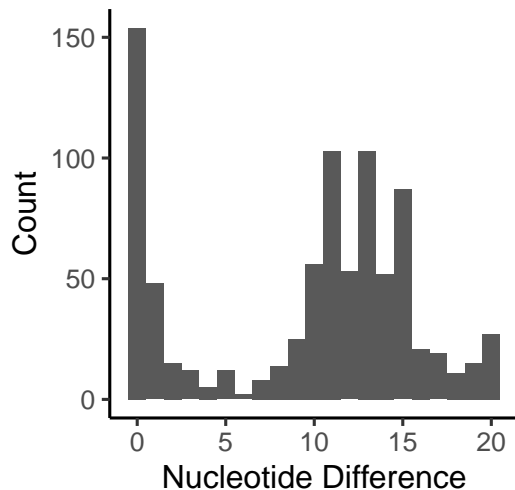
IGHV3-9*03

159 sequences assigned
62 (39%) exact matches, in which:
58 unique CDR3
4 unique J



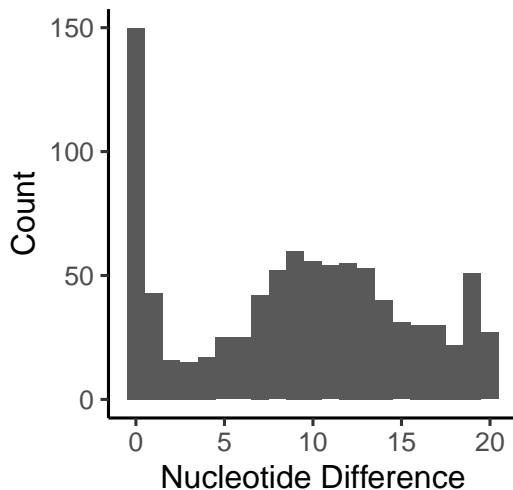
IGHV3-11*01

1039 sequences assigned
154 (14.8%) exact matches, in which:
139 unique CDR3
5 unique J



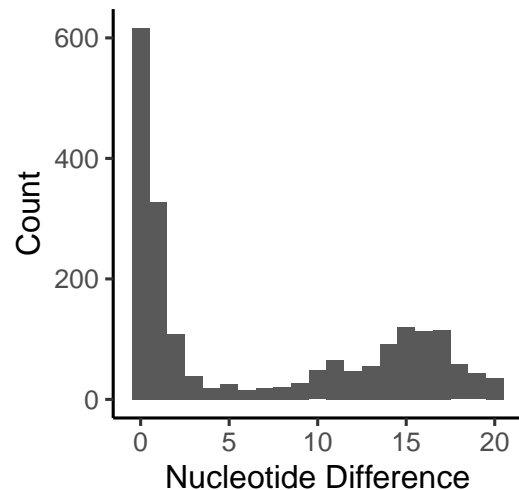
IGHV3-15*01_02

1187 sequences assigned
150 (12.6%) exact matches, in which:
144 unique CDR3
6 unique J



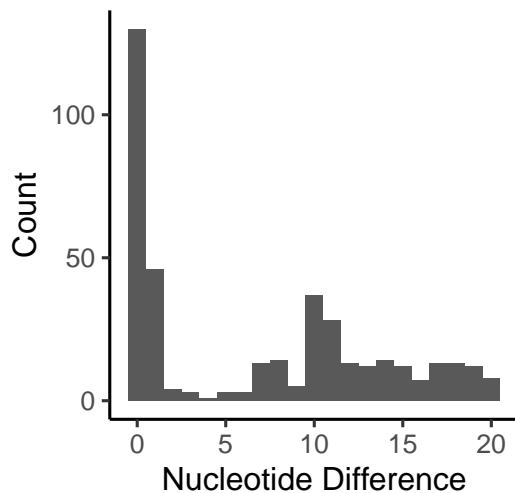
IGHV3-21*01_02

2663 sequences assigned
617 (23.2%) exact matches, in which:
507 unique CDR3
6 unique J



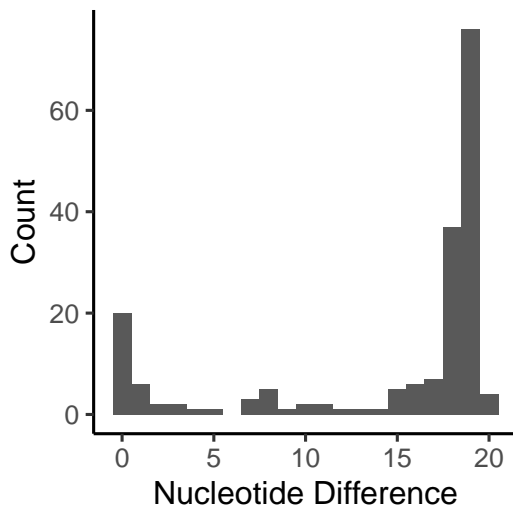
IGHV3-11*04

447 sequences assigned
130 (29.1%) exact matches, in which:
107 unique CDR3
6 unique J



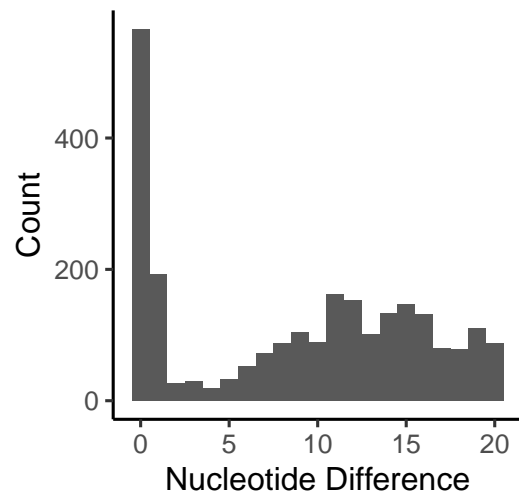
IGHV3-20*01_02

189 sequences assigned
20 (10.6%) exact matches, in which:
19 unique CDR3
4 unique J



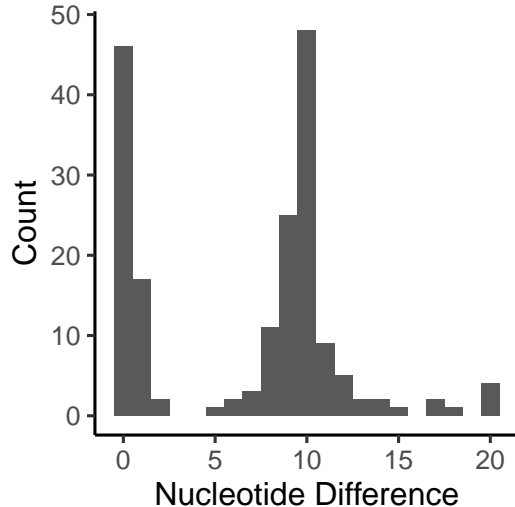
IGHV3-23*01_04

3503 sequences assigned
566 (16.2%) exact matches, in which:
510 unique CDR3
6 unique J



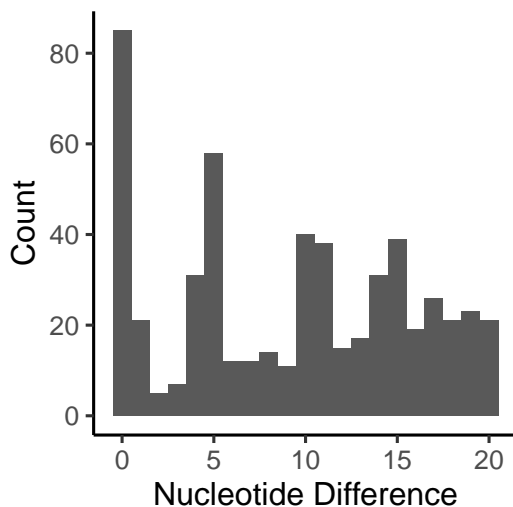
IGHV3-13*01

232 sequences assigned
46 (19.8%) exact matches, in which:
36 unique CDR3
5 unique J



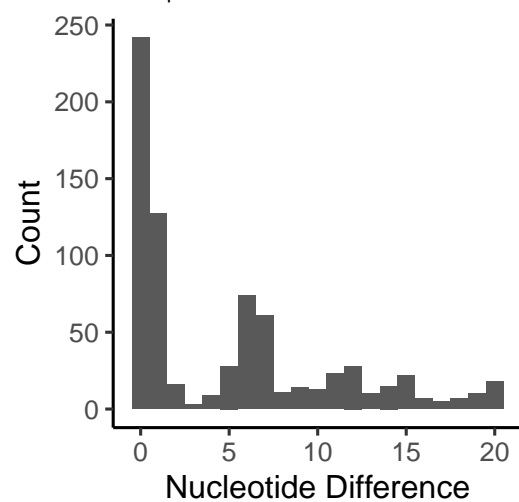
IGHV3-20*03_04

644 sequences assigned
85 (13.2%) exact matches, in which:
75 unique CDR3
6 unique J



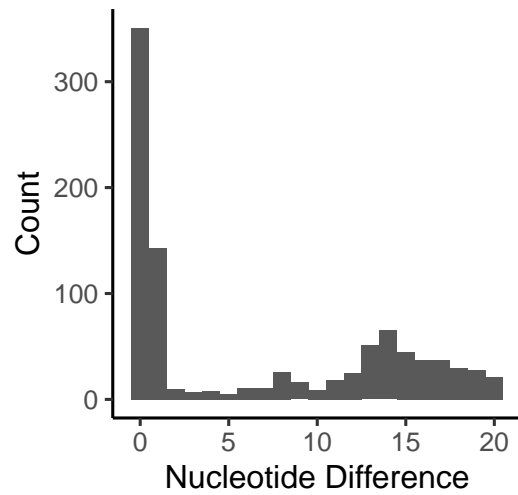
IGHV3-30*01

1024 sequences assigned
242 (23.6%) exact matches, in which:
212 unique CDR3
6 unique J



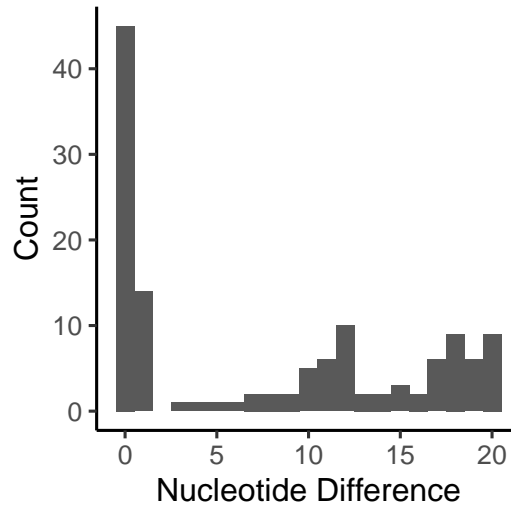
IGHV3-33*01

1275 sequences assigned
351 (27.5%) exact matches, in which:
233 unique CDR3
6 unique J



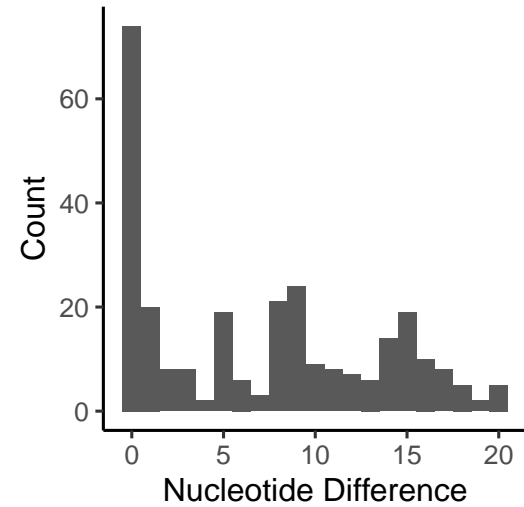
IGHV3-43*01

284 sequences assigned
45 (15.8%) exact matches, in which:
40 unique CDR3
4 unique J



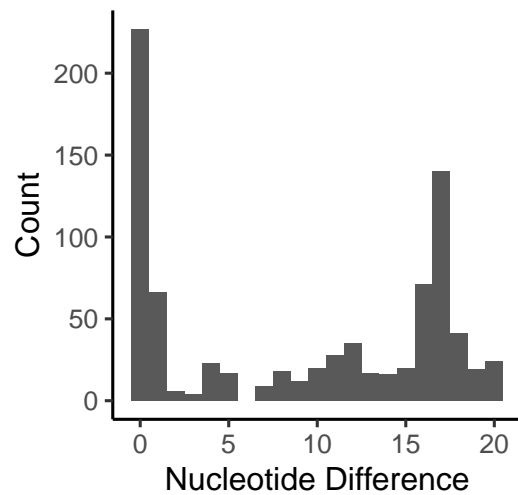
IGHV3-49*04

385 sequences assigned
74 (19.2%) exact matches, in which:
72 unique CDR3
6 unique J



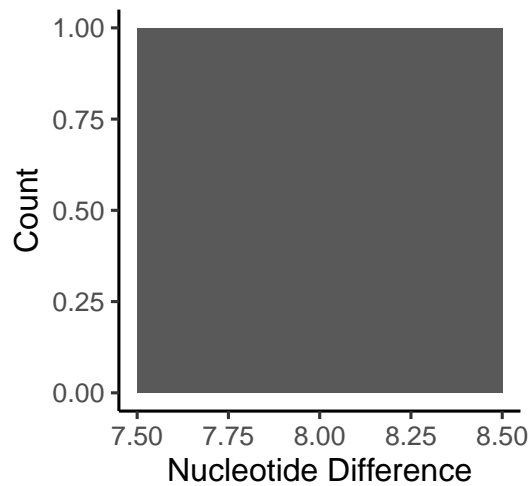
IGHV3-33*06

976 sequences assigned
227 (23.3%) exact matches, in which:
146 unique CDR3
6 unique J



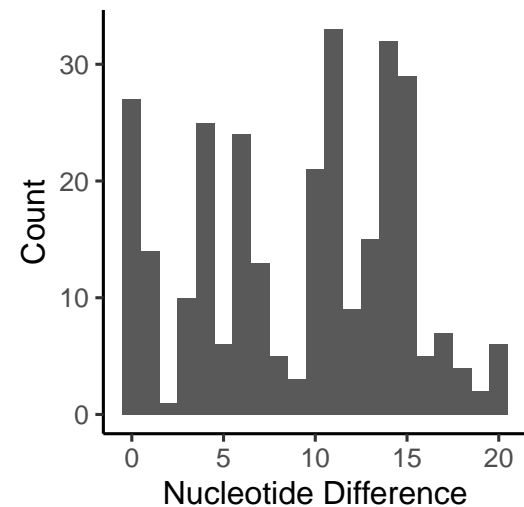
IGHV3-47*01

1 sequences assigned
No exact matches.



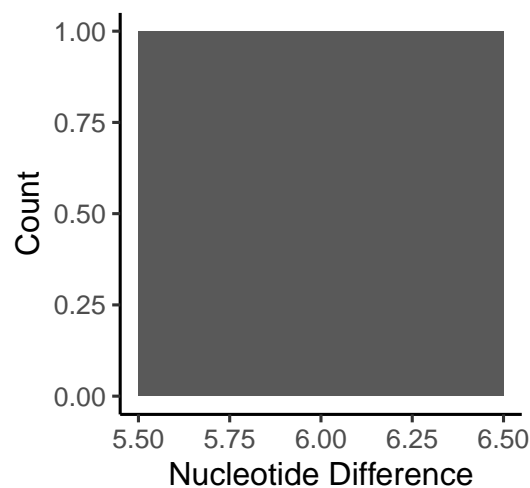
IGHV3-49*03_05

392 sequences assigned
27 (6.9%) exact matches, in which:
25 unique CDR3
5 unique J



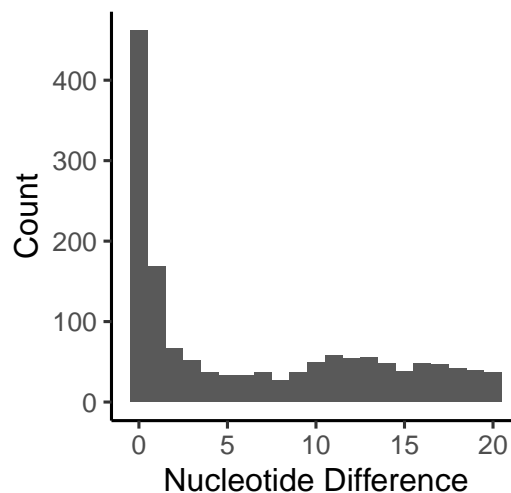
IGHV3-35*02

1 sequences assigned
No exact matches.



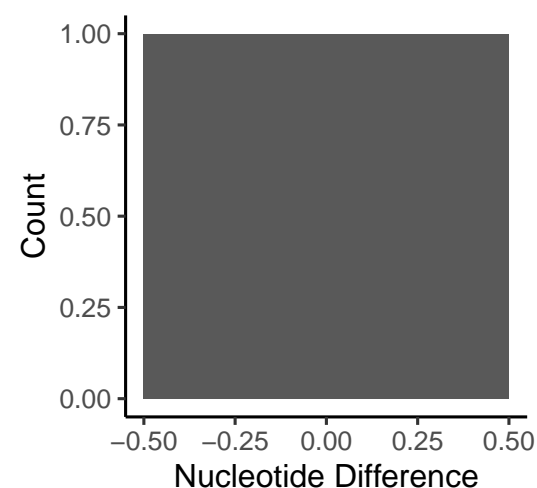
IGHV3-48*03

1892 sequences assigned
462 (24.4%) exact matches, in which:
428 unique CDR3
6 unique J



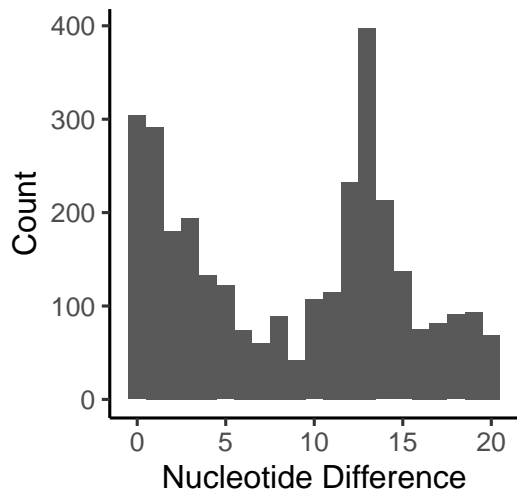
IGHV3-52*01_03

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



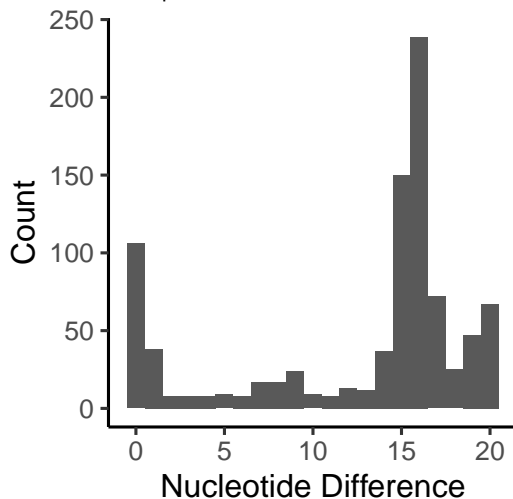
IGHV3-53*01_02

4085 sequences assigned
304 (7.4%) exact matches, in which:
234 unique CDR3
6 unique J



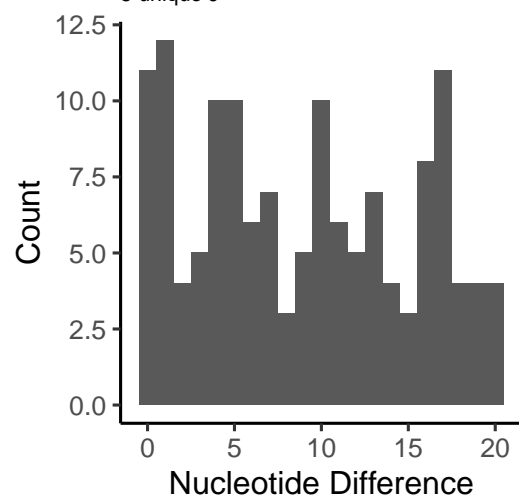
IGHV3-66*02

1160 sequences assigned
106 (9.1%) exact matches, in which:
91 unique CDR3
5 unique J



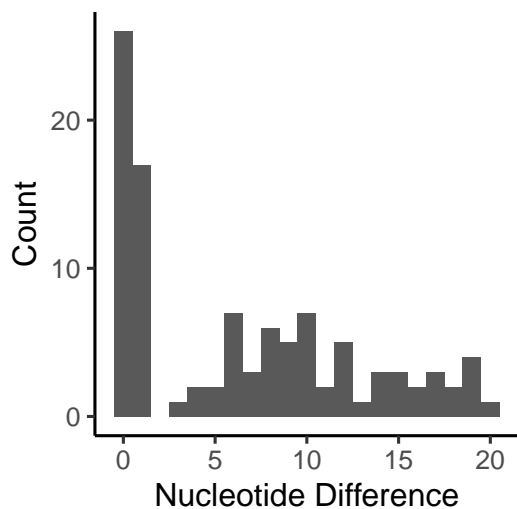
IGHV3-73*01_02

201 sequences assigned
11 (5.5%) exact matches, in which:
11 unique CDR3
5 unique J



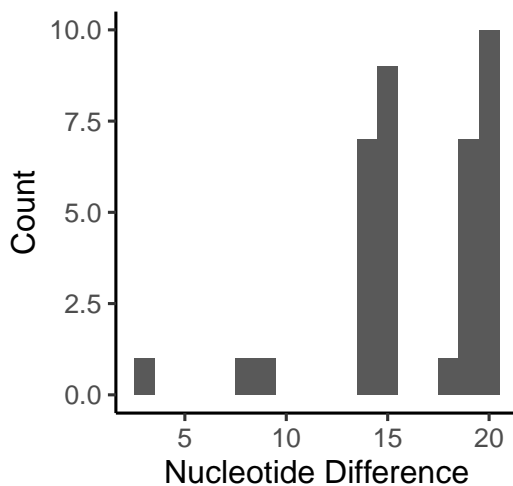
IGHV3-64*01

197 sequences assigned
26 (13.2%) exact matches, in which:
24 unique CDR3
4 unique J



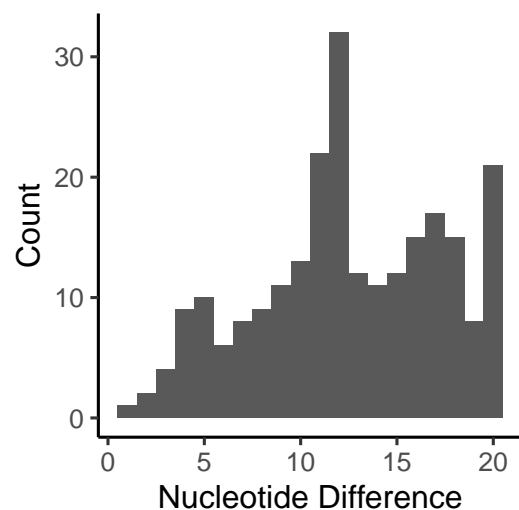
IGHV3-69-1*01

37 sequences assigned
No exact matches.



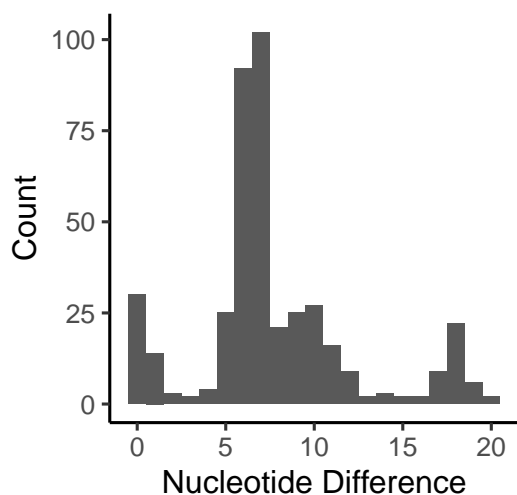
IGHV3-74*03

582 sequences assigned
No exact matches.



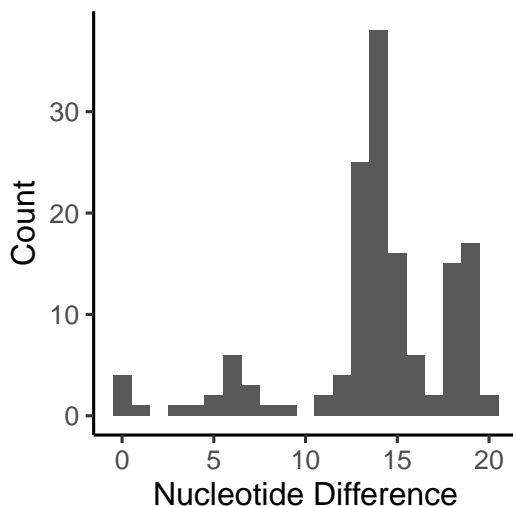
IGHV3-64*02_07

465 sequences assigned
30 (6.5%) exact matches, in which:
26 unique CDR3
4 unique J



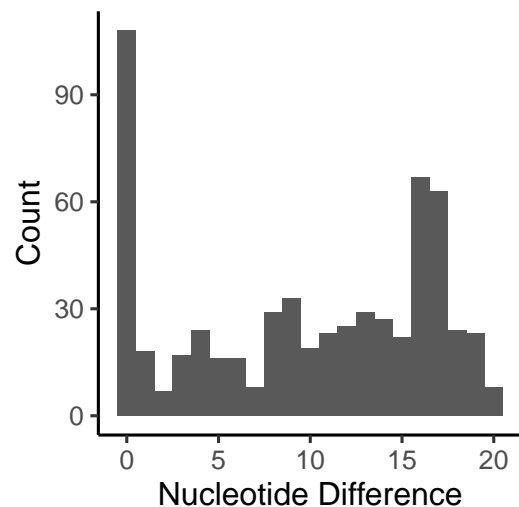
IGHV3-72*01

218 sequences assigned
4 (1.8%) exact matches, in which:
4 unique CDR3
2 unique J



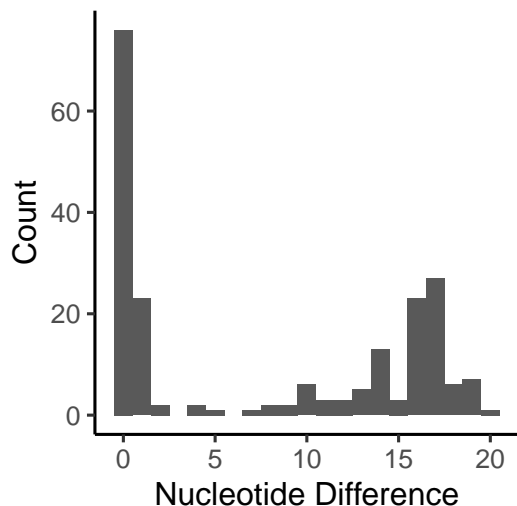
IGHV3-74*01_02

792 sequences assigned
108 (13.6%) exact matches, in which:
98 unique CDR3
6 unique J



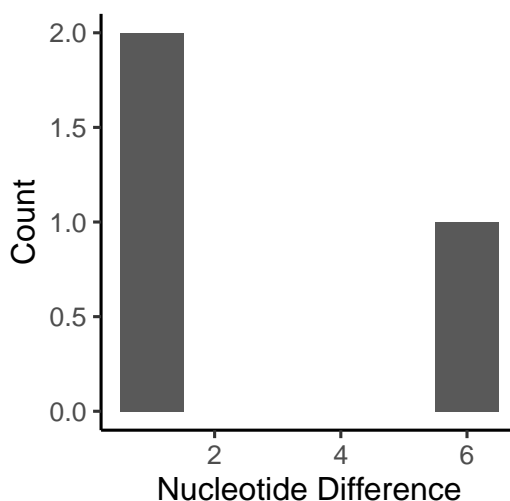
IGHV3-43D*03

252 sequences assigned
76 (30.2%) exact matches, in which:
70 unique CDR3
6 unique J



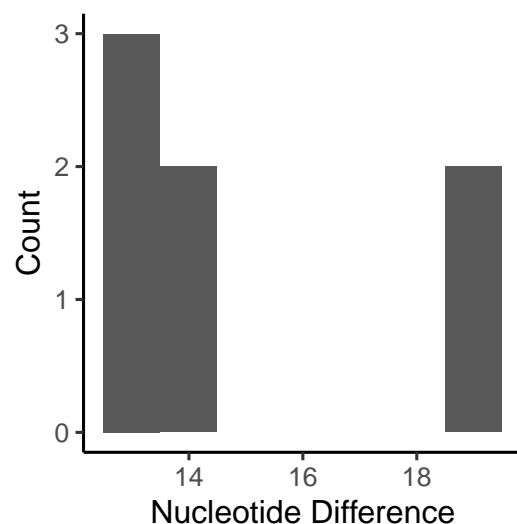
IGHV4-28*06

3 sequences assigned
No exact matches.



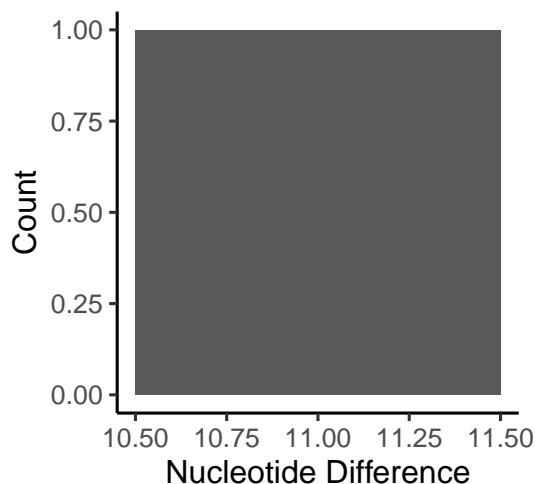
IGHV4-30-4*01

27 sequences assigned
No exact matches.



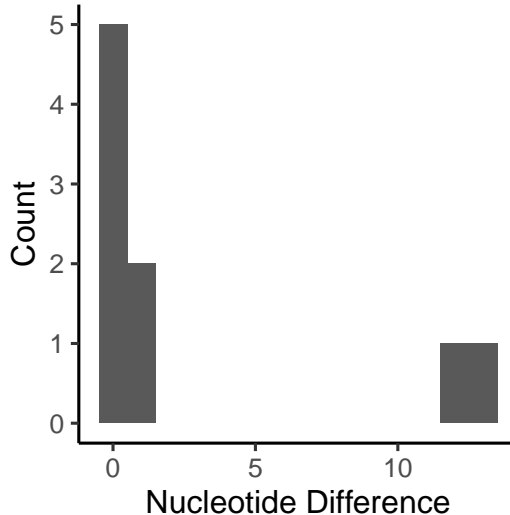
IGHV3-NL1*01

1 sequences assigned
No exact matches.



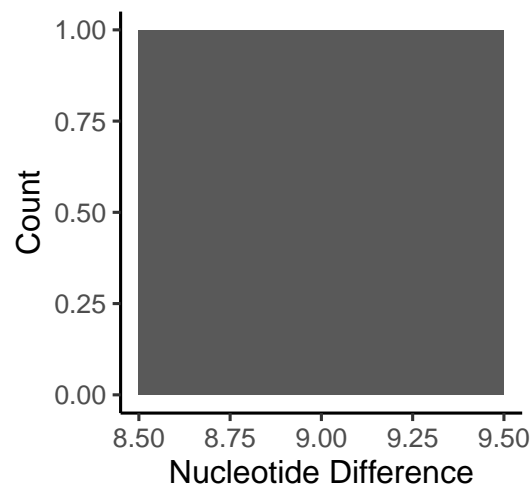
IGHV4-28*02_05

9 sequences assigned
5 (55.6%) exact matches, in which:
1 unique CDR3
1 unique J



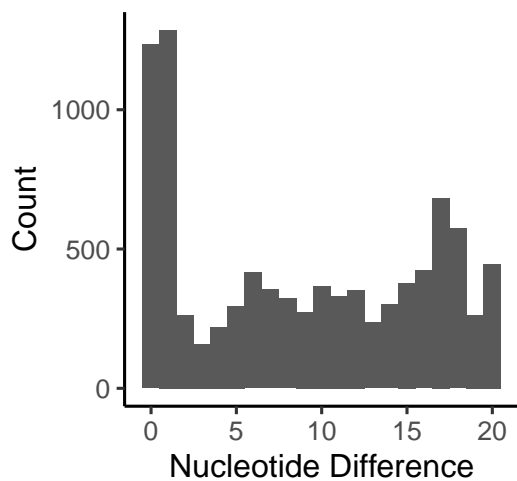
IGHV4-30-4*08

5 sequences assigned
No exact matches.



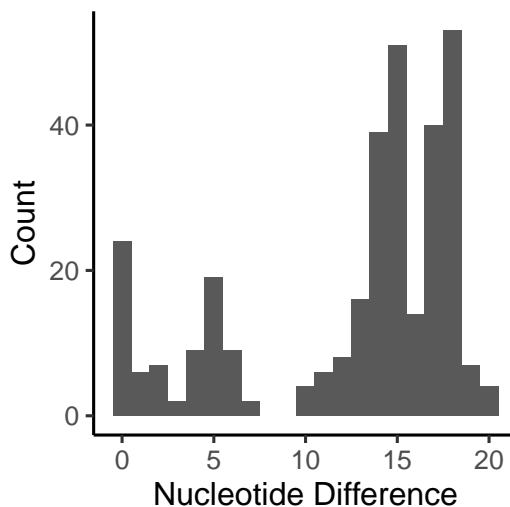
IGHV4-4*07

12185 sequences assigned
1234 (10.1%) exact matches, in which:
750 unique CDR3
6 unique J



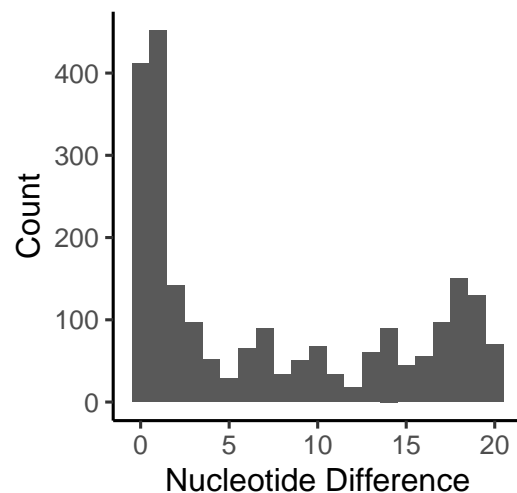
IGHV4-30-2*01

458 sequences assigned
24 (5.2%) exact matches, in which:
20 unique CDR3
5 unique J



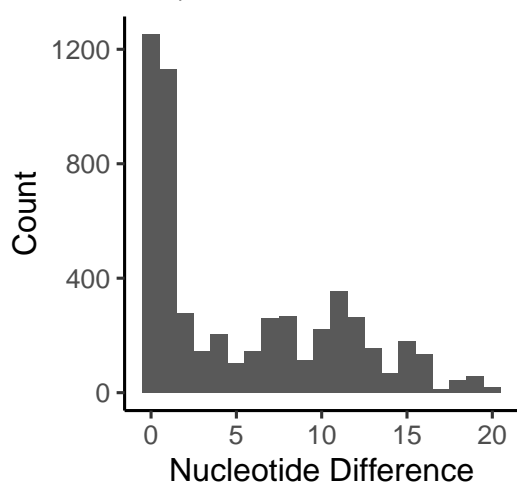
IGHV4-31*02

3681 sequences assigned
412 (11.2%) exact matches, in which:
246 unique CDR3
6 unique J



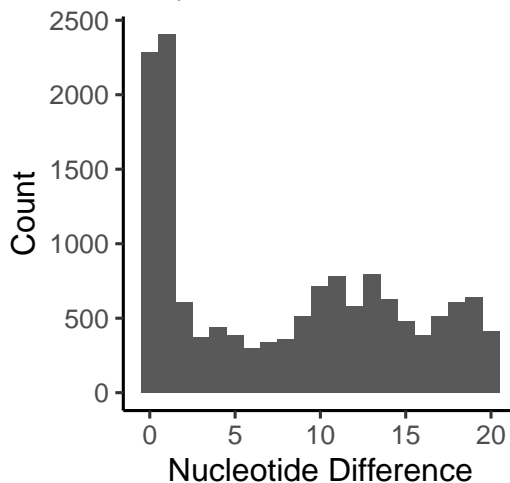
IGHV4-34*01_02

6049 sequences assigned
1252 (20.7%) exact matches, in which:
742 unique CDR3
6 unique J



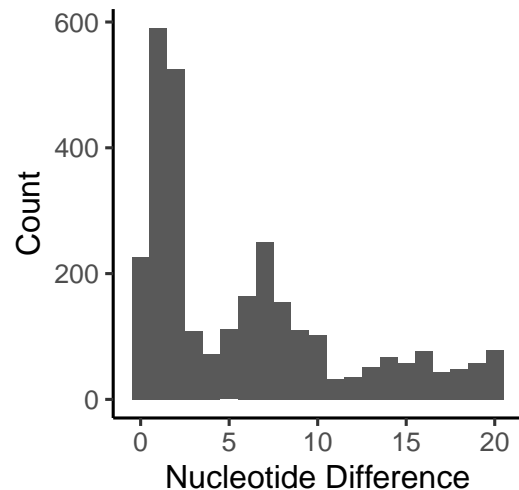
IGHV4-39*07

19320 sequences assigned
2287 (11.8%) exact matches, in which:
1380 unique CDR3
6 unique J



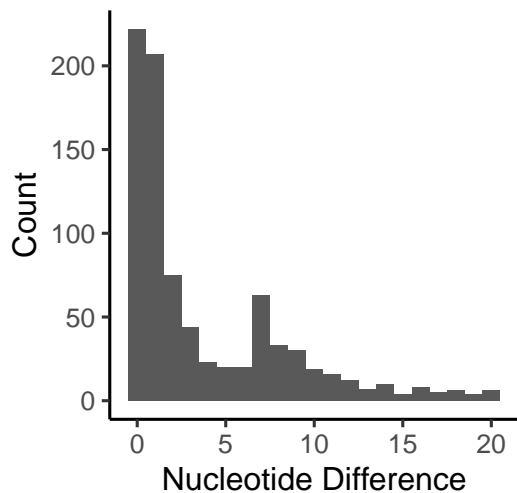
IGHV4-59*12

3923 sequences assigned
227 (5.8%) exact matches, in which:
225 unique CDR3
6 unique J



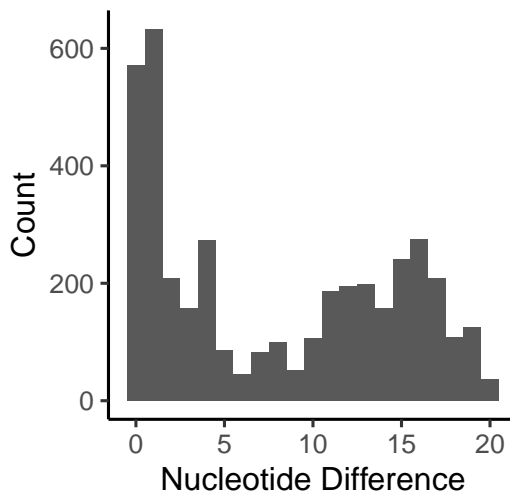
IGHV4-34*01_02_T300C

927 sequences assigned
222 (23.9%) exact matches, in which:
221 unique CDR3
6 unique J



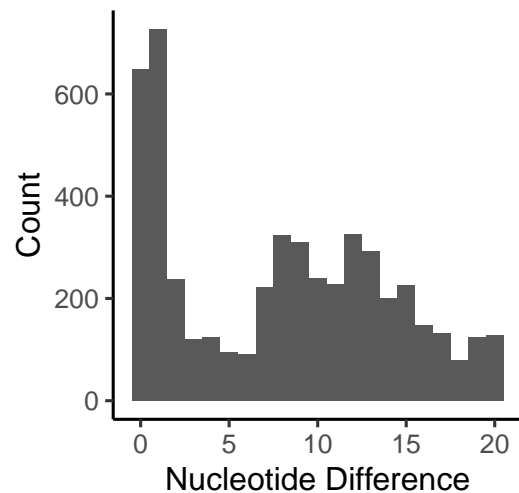
IGHV4-59*08

4785 sequences assigned
572 (12%) exact matches, in which:
369 unique CDR3
6 unique J



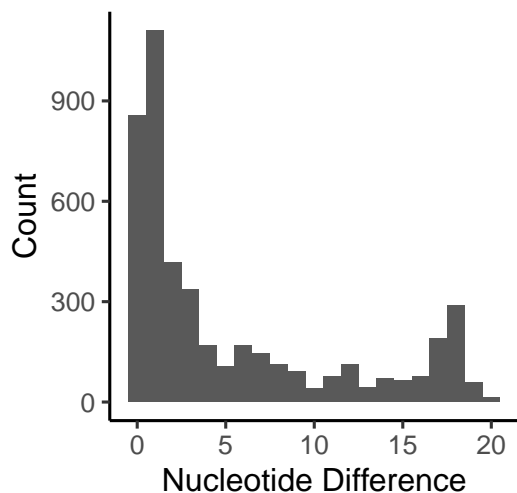
IGHV4-61*02

6345 sequences assigned
648 (10.2%) exact matches, in which:
394 unique CDR3
6 unique J



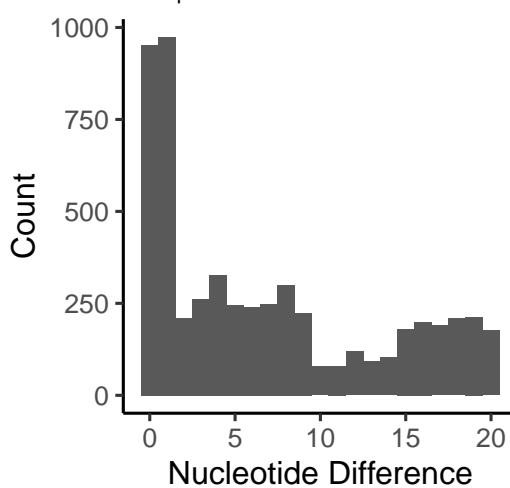
IGHV4-38-2*02

5551 sequences assigned
857 (15.4%) exact matches, in which:
509 unique CDR3
6 unique J



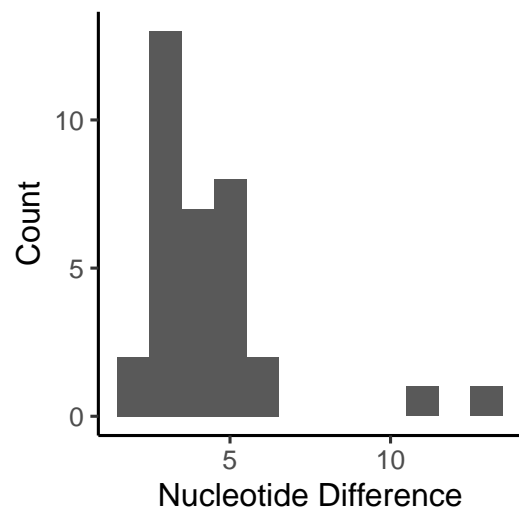
IGHV4-59*01_07

7248 sequences assigned
952 (13.1%) exact matches, in which:
560 unique CDR3
6 unique J



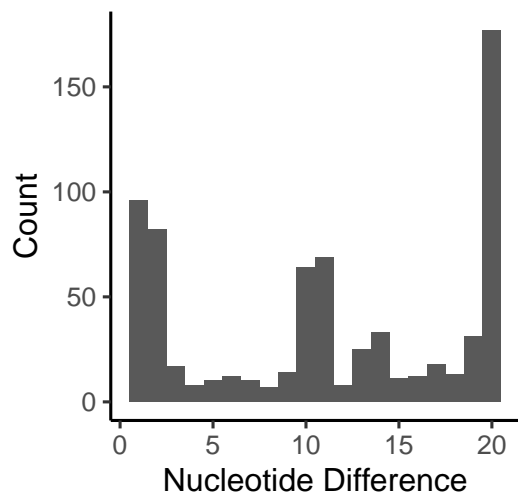
IGHV4/OR15-8*01

36 sequences assigned
No exact matches.



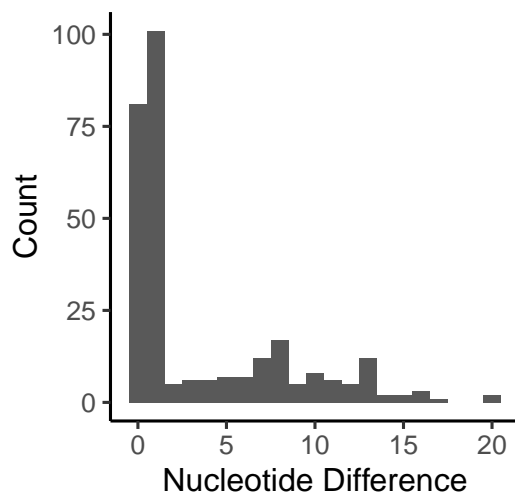
IGHV5-51*07

1075 sequences assigned
No exact matches.



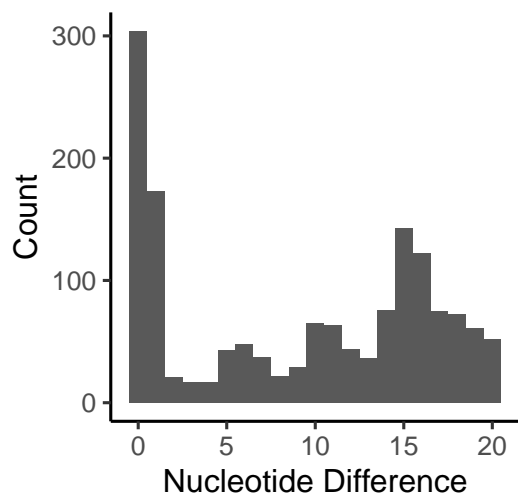
IGHV6-1*01_02

313 sequences assigned
81 (25.9%) exact matches, in which:
49 unique CDR3
5 unique J



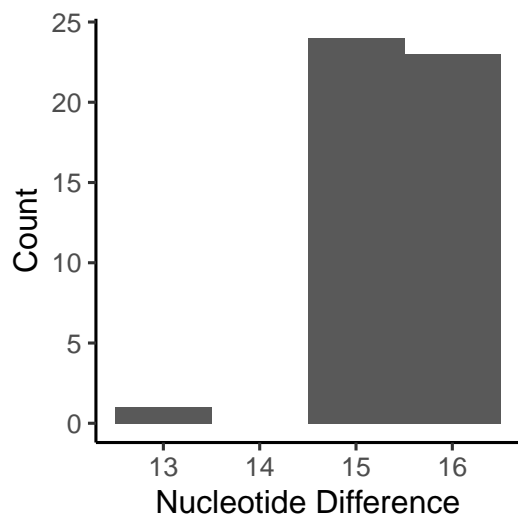
IGHV5-51*01_03

1930 sequences assigned
304 (15.8%) exact matches, in which:
259 unique CDR3
6 unique J



IGHV5-78*01

48 sequences assigned
No exact matches.





Warning – no inferred sequences found.