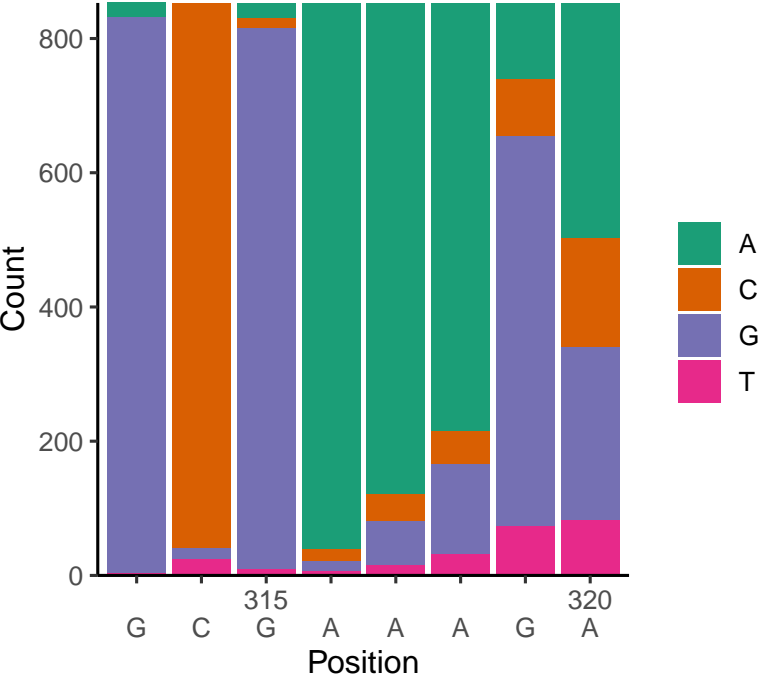
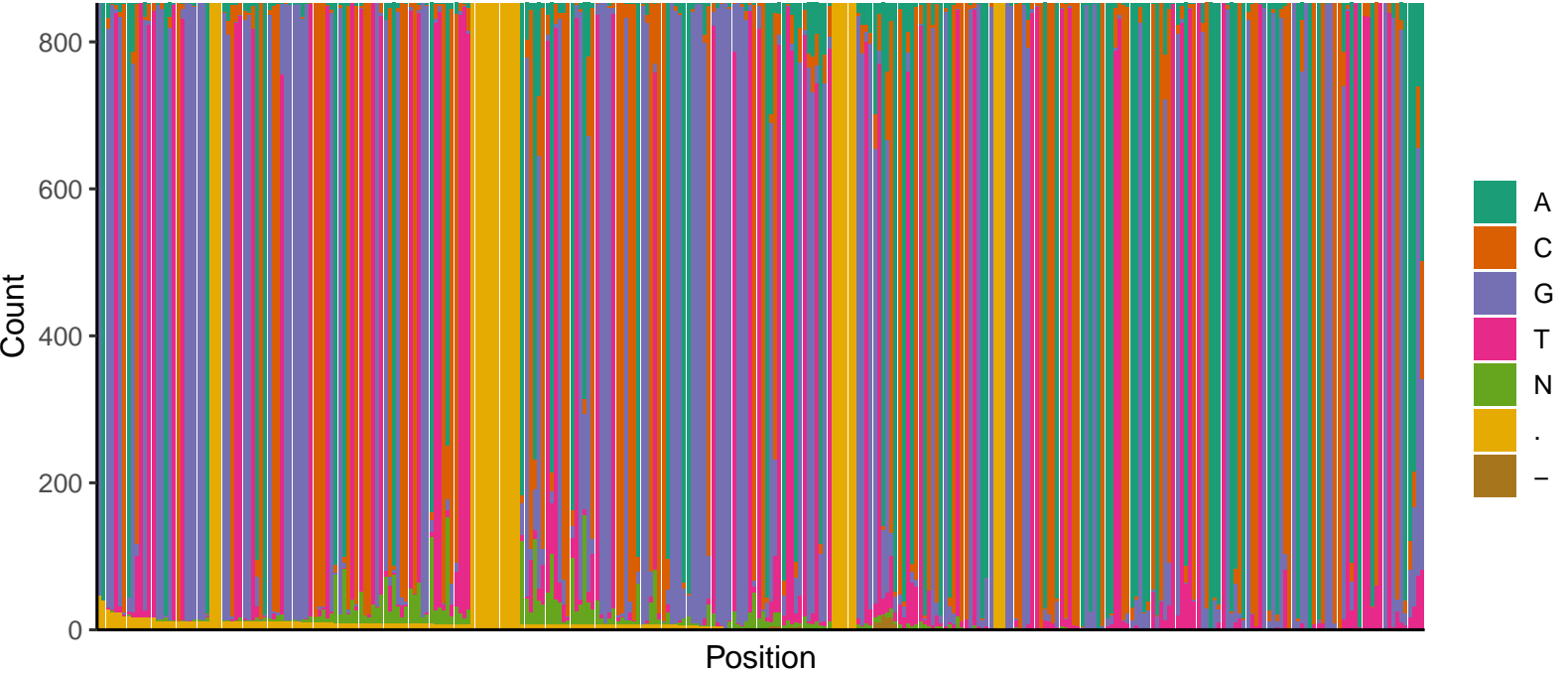


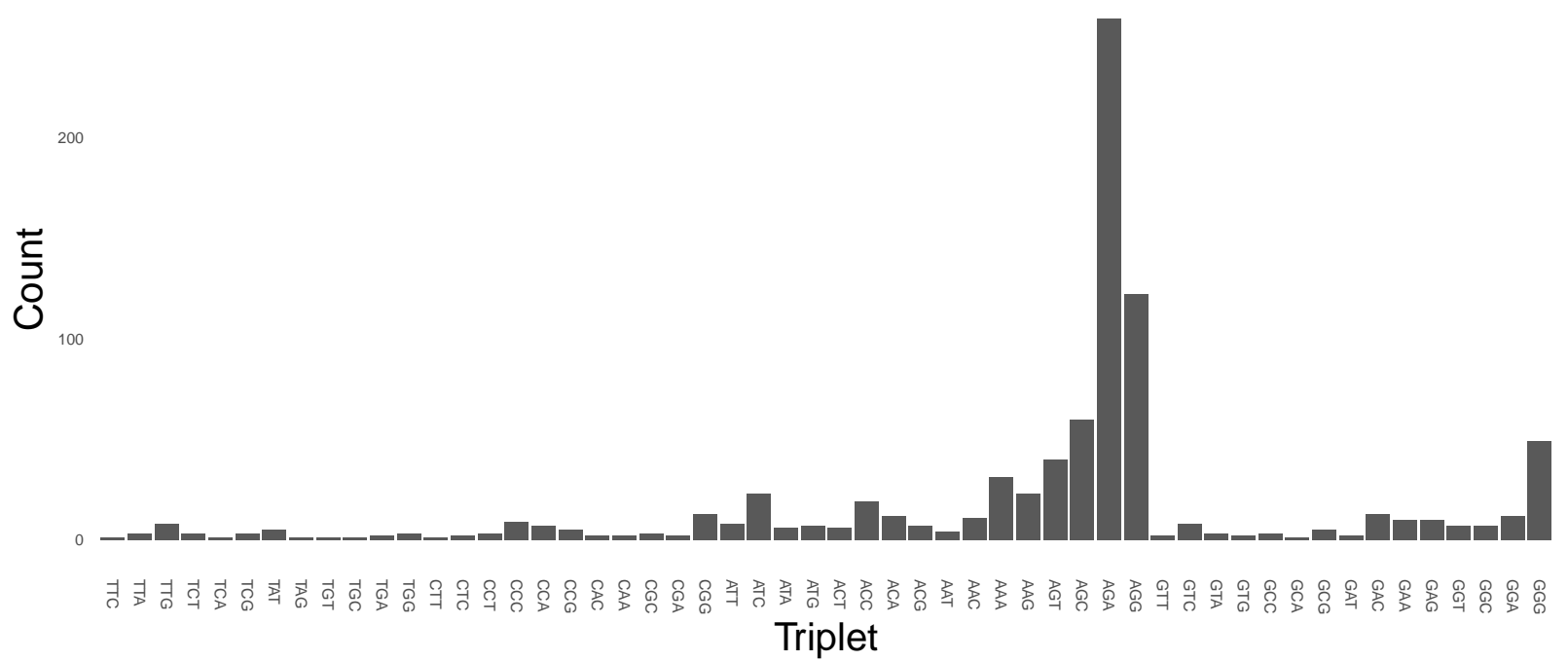
Gene IGHV3-23*01_A152G



Gene IGHV3-23*01_A152G

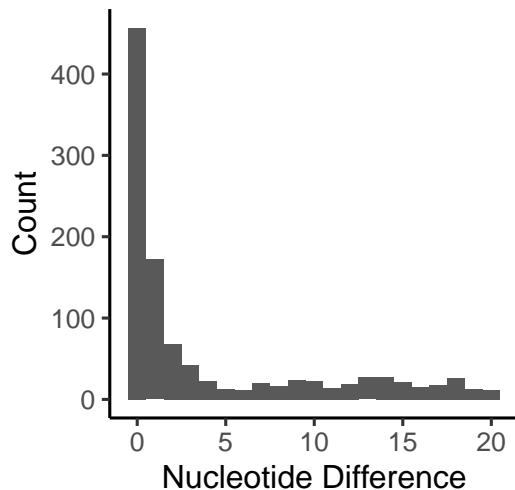


IGHV3-23*01_A152G- Final 3 nucleotides as a triplet



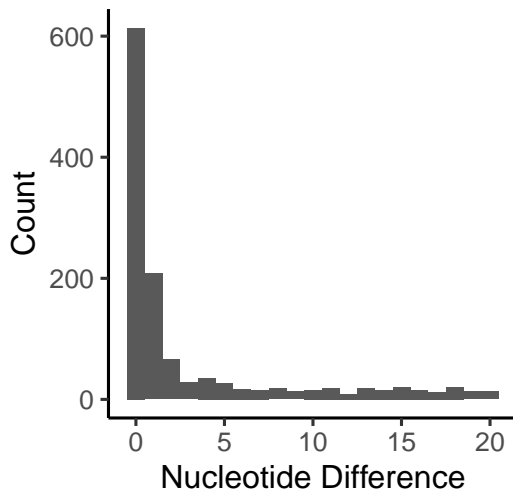
IGHV1-2*02

1242 sequences assigned
457 (36.8%) exact matches, in which:
455 unique CDR3
6 unique J



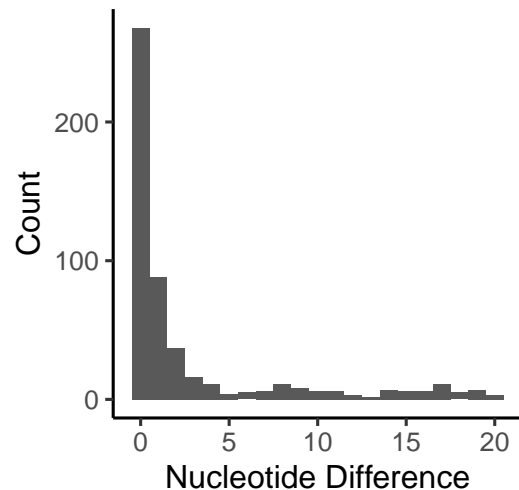
IGHV1-18*01

1374 sequences assigned
614 (44.7%) exact matches, in which:
610 unique CDR3
6 unique J



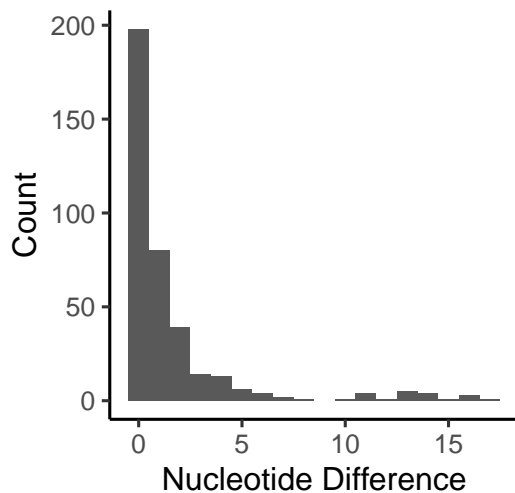
IGHV1-46*01

595 sequences assigned
268 (45%) exact matches, in which:
268 unique CDR3
5 unique J



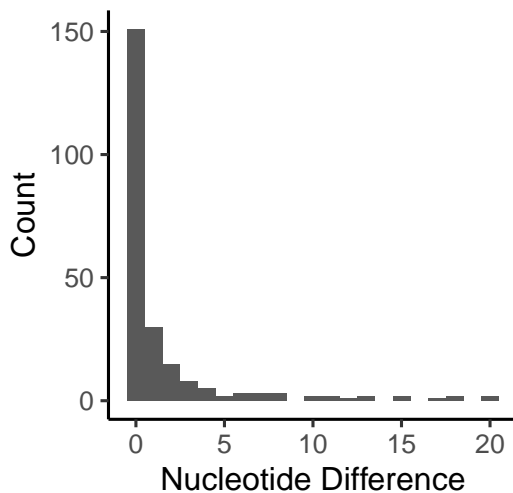
IGHV1-2*04

380 sequences assigned
198 (52.1%) exact matches, in which:
198 unique CDR3
6 unique J



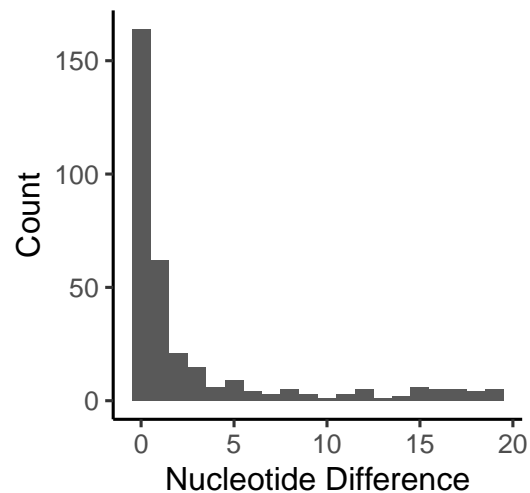
IGHV1-24*01

245 sequences assigned
151 (61.6%) exact matches, in which:
150 unique CDR3
5 unique J



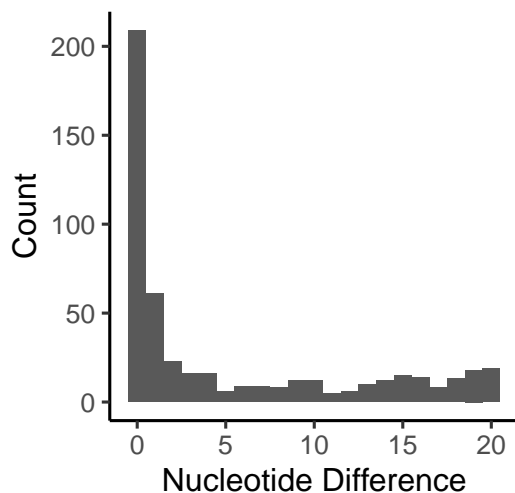
IGHV1-46*03

357 sequences assigned
164 (45.9%) exact matches, in which:
163 unique CDR3
5 unique J



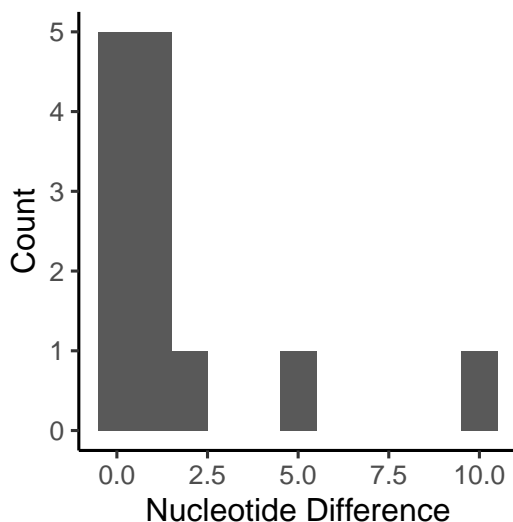
IGHV1-3*01

646 sequences assigned
209 (32.4%) exact matches, in which:
206 unique CDR3
5 unique J



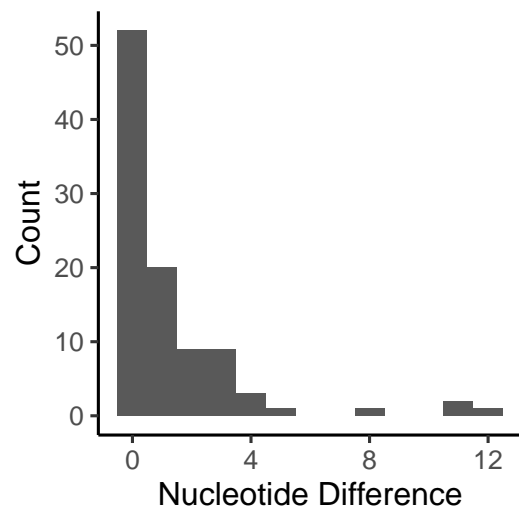
IGHV1-45*02

32 sequences assigned
5 (15.6%) exact matches, in which:
5 unique CDR3
3 unique J



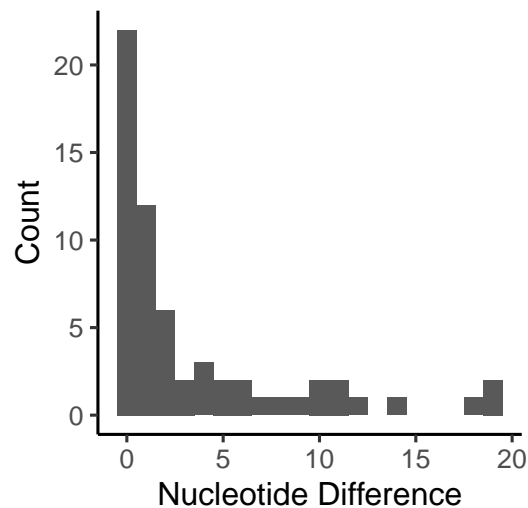
IGHV1-58*01

102 sequences assigned
52 (51%) exact matches, in which:
52 unique CDR3
4 unique J



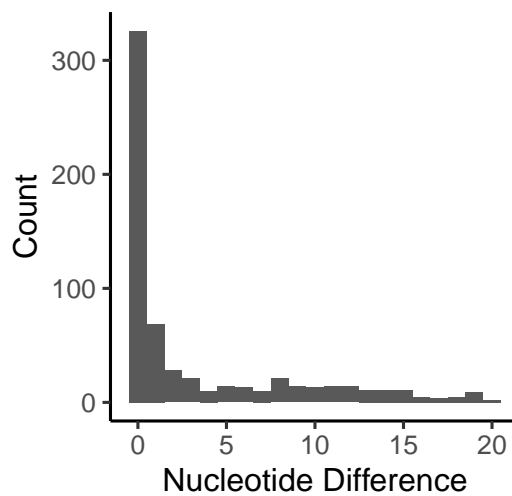
IGHV1-58*02

71 sequences assigned
22 (31%) exact matches, in which:
22 unique CDR3
5 unique J



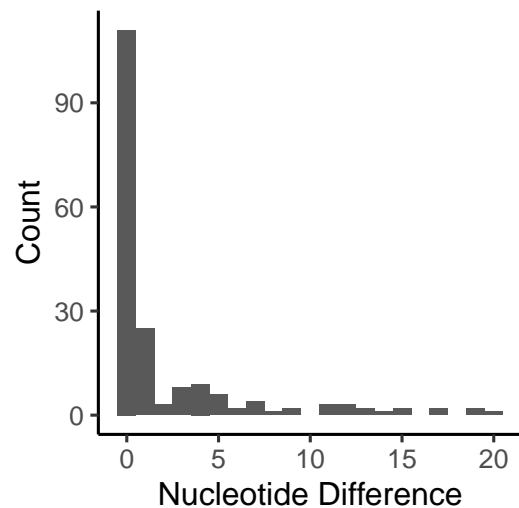
IGHV2-5*01

676 sequences assigned
326 (48.2%) exact matches, in which:
324 unique CDR3
6 unique J



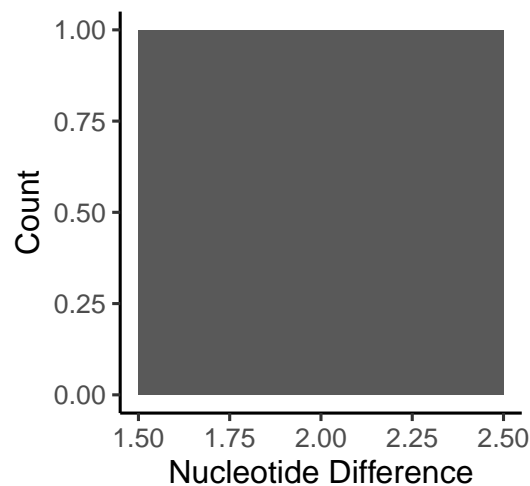
IGHV2-70*01

192 sequences assigned
111 (57.8%) exact matches, in which:
109 unique CDR3
5 unique J



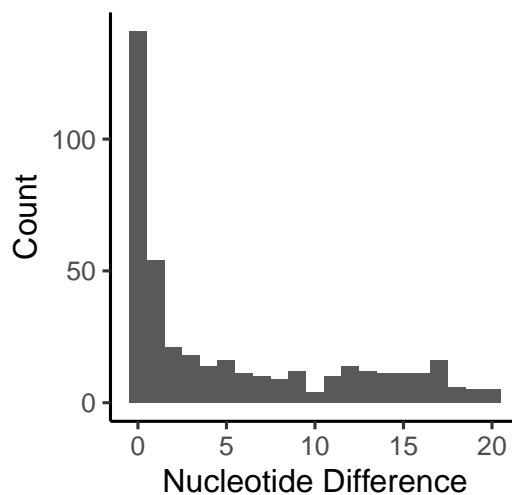
IGHV1-68*02

1 sequences assigned
No exact matches.



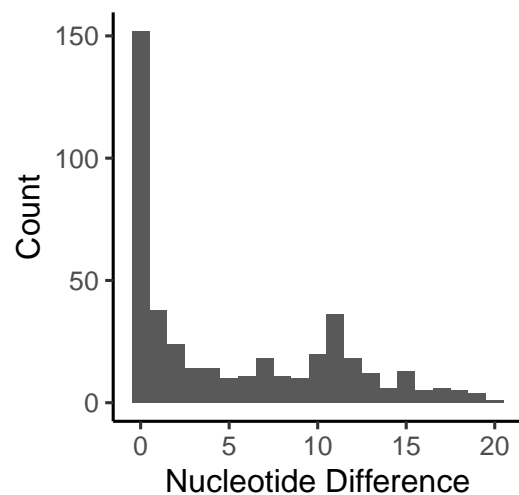
IGHV2-5*02

447 sequences assigned
141 (31.5%) exact matches, in which:
138 unique CDR3
6 unique J



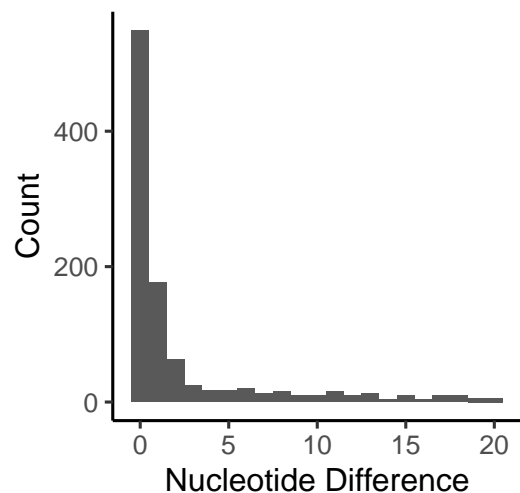
IGHV2-70*15

445 sequences assigned
152 (34.2%) exact matches, in which:
151 unique CDR3
6 unique J



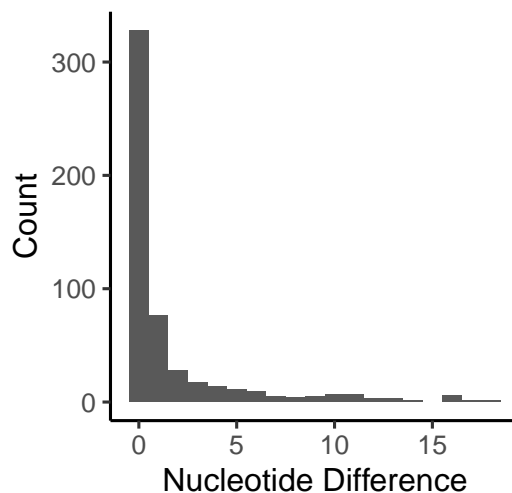
IGHV1-69*04

1063 sequences assigned
549 (51.6%) exact matches, in which:
544 unique CDR3
6 unique J



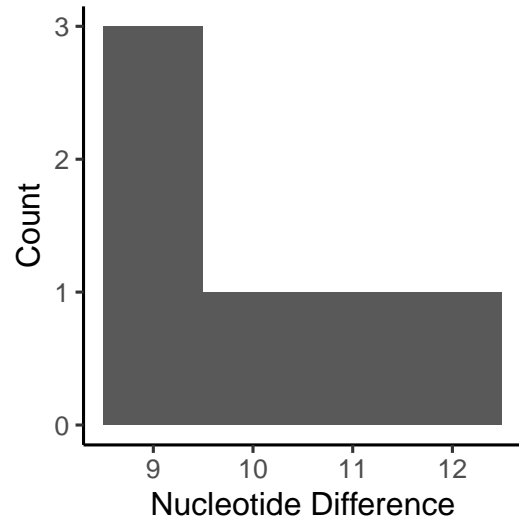
IGHV2-26*01

535 sequences assigned
328 (61.3%) exact matches, in which:
326 unique CDR3
6 unique J



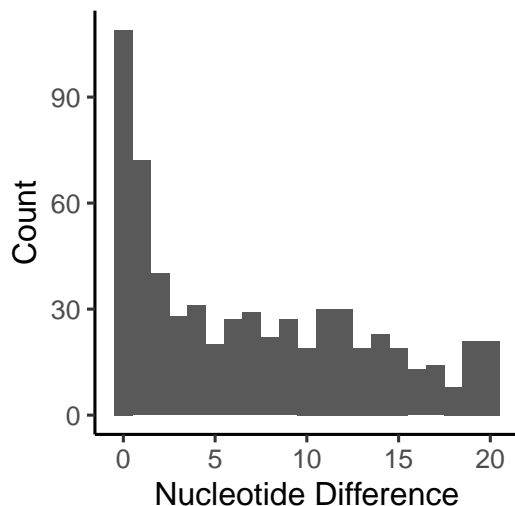
IGHV2-70D*04

6 sequences assigned
No exact matches.



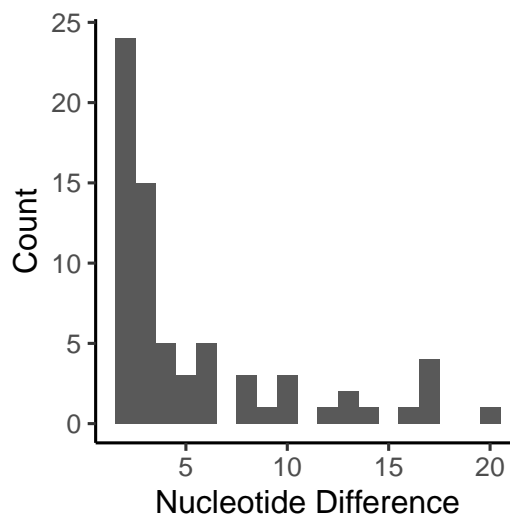
IGHV3-7*03

787 sequences assigned
109 (13.9%) exact matches, in which:
107 unique CDR3
5 unique J



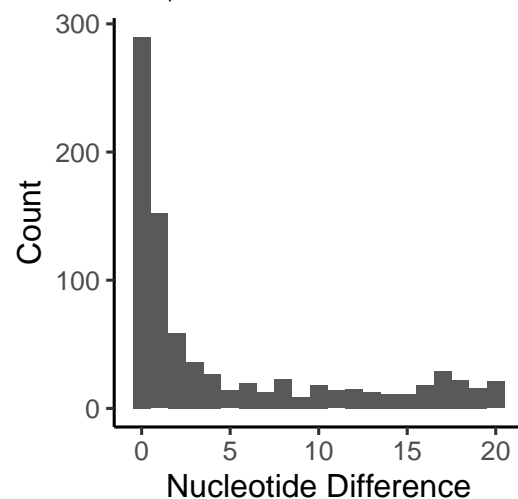
IGHV3-13*01

79 sequences assigned
No exact matches.



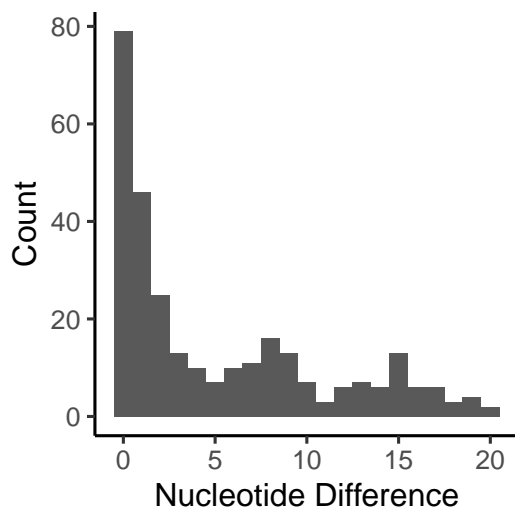
IGHV3-15*07

999 sequences assigned
290 (29%) exact matches, in which:
288 unique CDR3
6 unique J



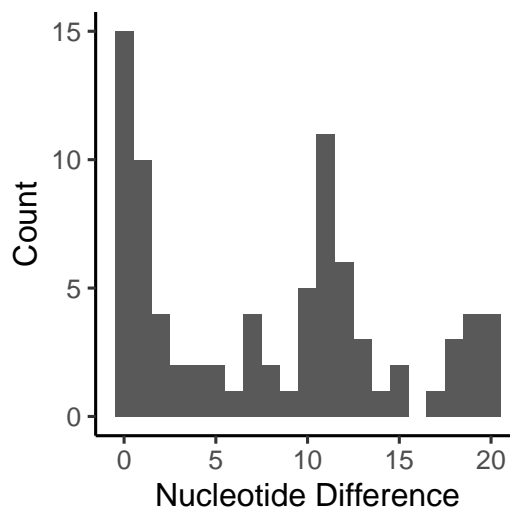
IGHV3-7*05

331 sequences assigned
79 (23.9%) exact matches, in which:
78 unique CDR3
5 unique J



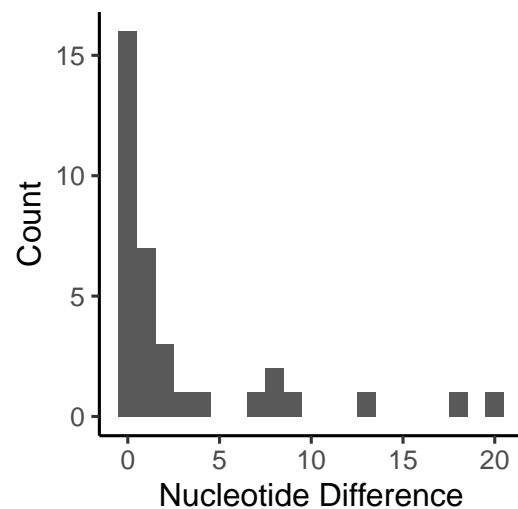
IGHV3-13*05

86 sequences assigned
15 (17.4%) exact matches, in which:
15 unique CDR3
5 unique J



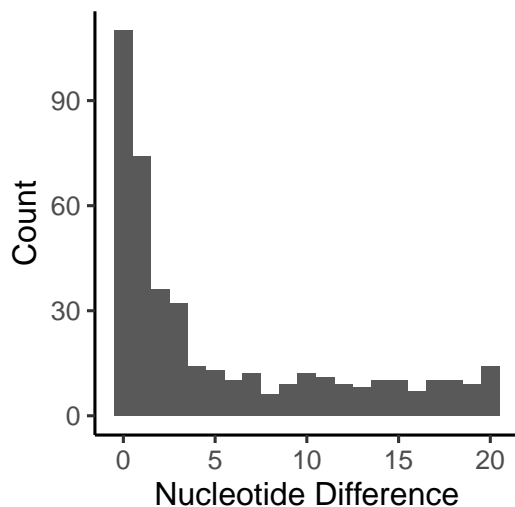
IGHV3-20*01

36 sequences assigned
16 (44.4%) exact matches, in which:
16 unique CDR3
3 unique J



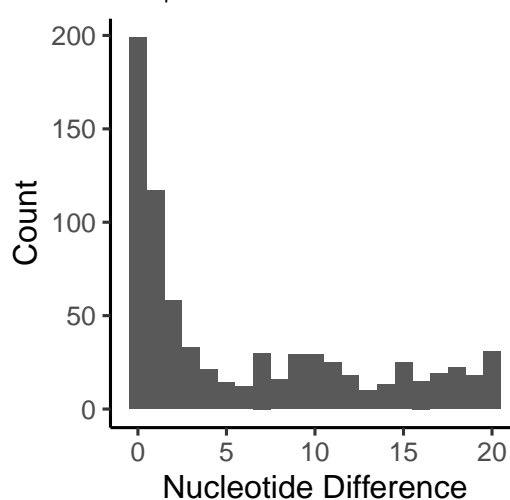
IGHV3-11*06

565 sequences assigned
110 (19.5%) exact matches, in which:
108 unique CDR3
5 unique J



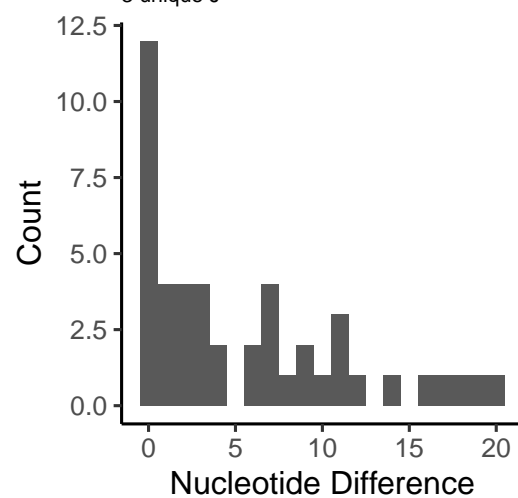
IGHV3-15*01

929 sequences assigned
199 (21.4%) exact matches, in which:
195 unique CDR3
6 unique J



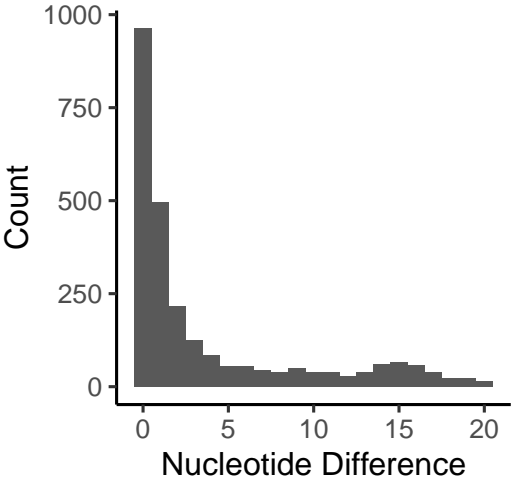
IGHV3-20*04

50 sequences assigned
12 (24%) exact matches, in which:
12 unique CDR3
3 unique J



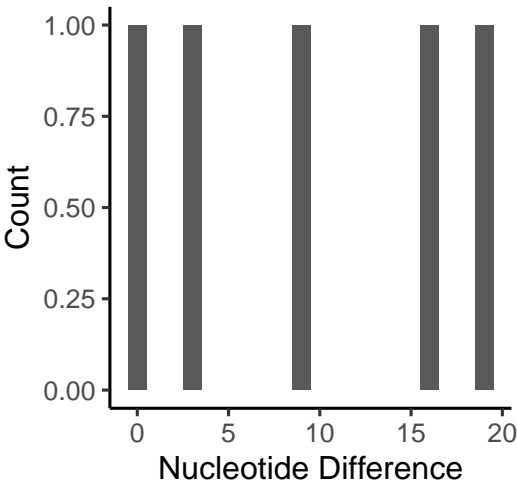
IGHV3-21*01

2784 sequences assigned
963 (34.6%) exact matches, in which:
945 unique CDR3
6 unique J



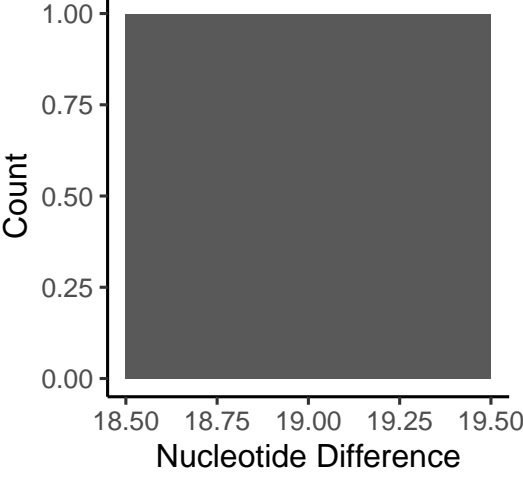
IGHV3-30-3*03

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



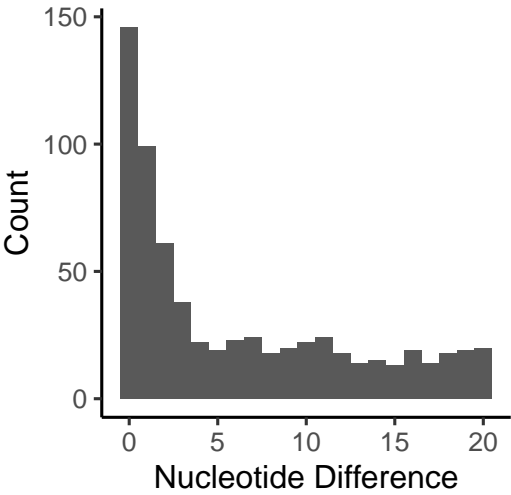
IGHV3-41*02

2 sequences assigned
No exact matches.



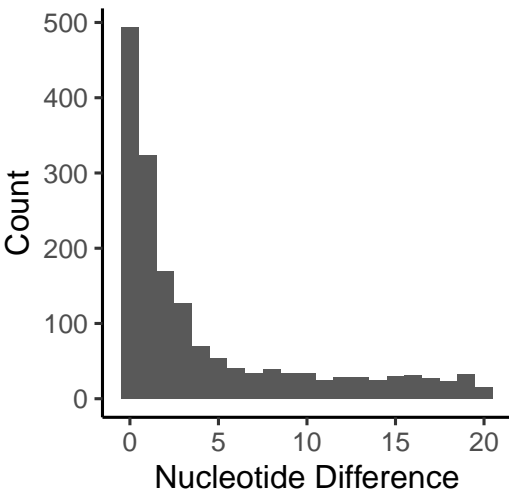
IGHV3-23*01_A152G

853 sequences assigned
146 (17.1%) exact matches, in which:
146 unique CDR3
6 unique J



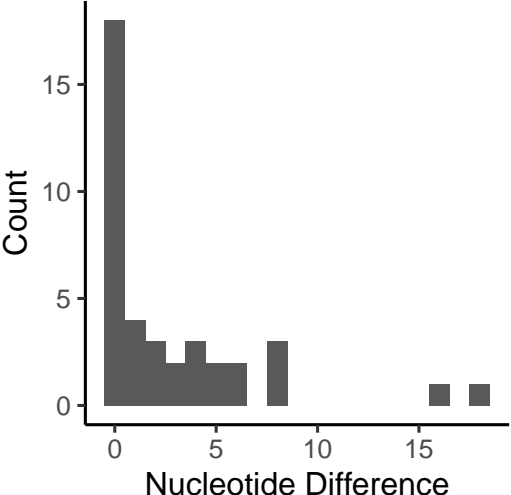
IGHV3-33*01

1928 sequences assigned
494 (25.6%) exact matches, in which:
494 unique CDR3
6 unique J



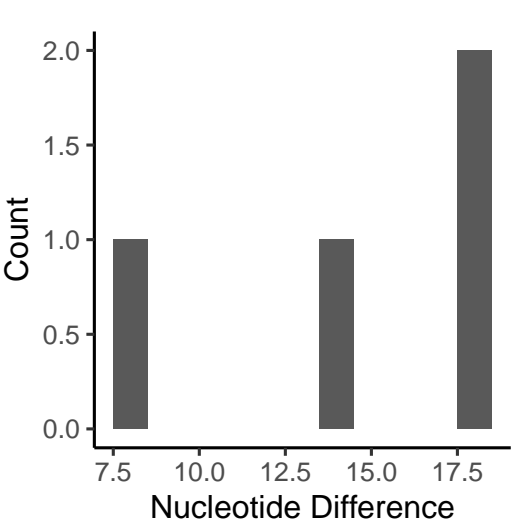
IGHV3-43*01

45 sequences assigned
18 (40%) exact matches, in which:
18 unique CDR3
3 unique J



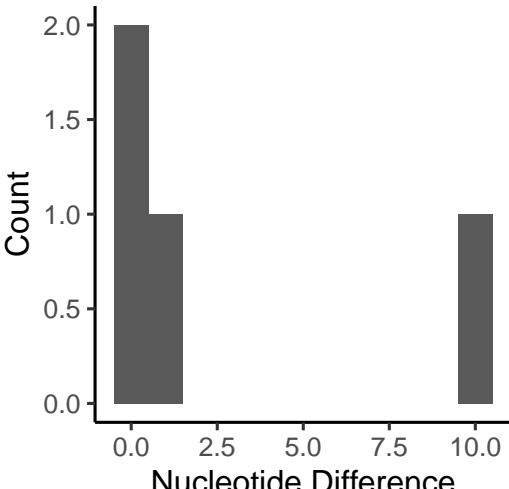
IGHV3-30-3*02

6 sequences assigned
No exact matches.



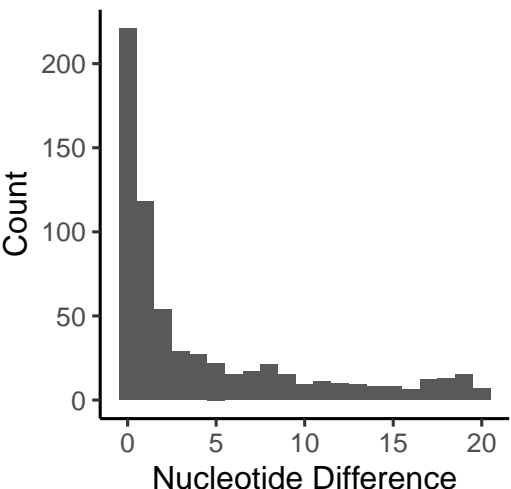
IGHV3-35*01

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



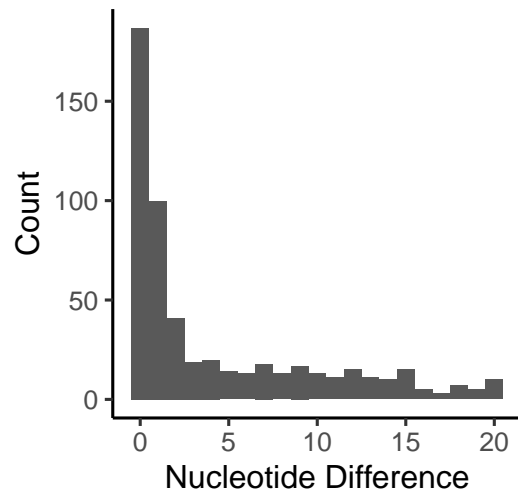
IGHV3-48*01

740 sequences assigned
221 (29.9%) exact matches, in which:
220 unique CDR3
5 unique J



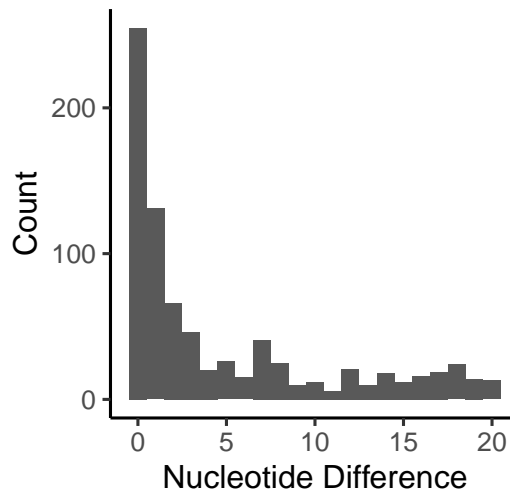
IGHV3-48*02

617 sequences assigned
187 (30.3%) exact matches, in which:
184 unique CDR3
6 unique J



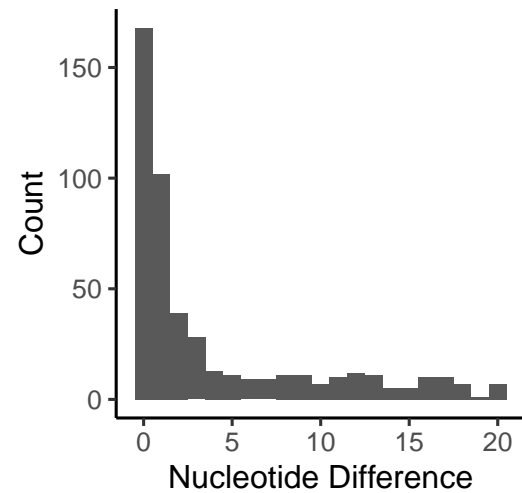
IGHV3-53*01

925 sequences assigned
255 (27.6%) exact matches, in which:
254 unique CDR3
6 unique J



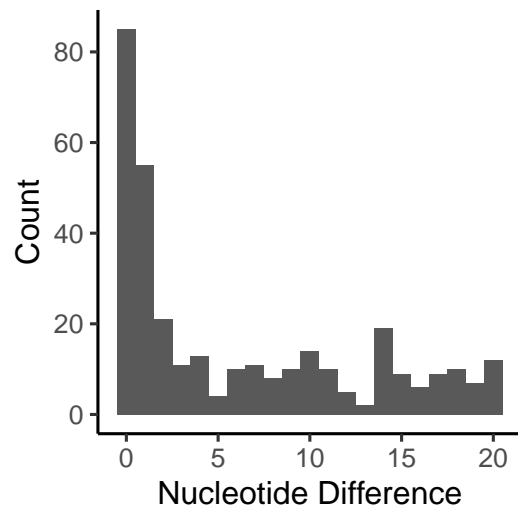
IGHV3-66*01

547 sequences assigned
168 (30.7%) exact matches, in which:
165 unique CDR3
6 unique J



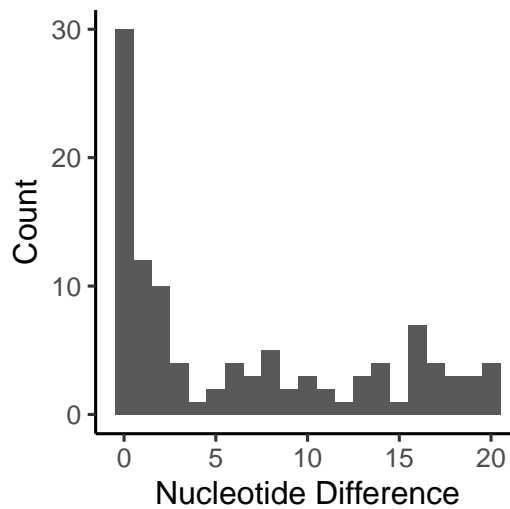
IGHV3-49*03

420 sequences assigned
85 (20.2%) exact matches, in which:
85 unique CDR3
6 unique J



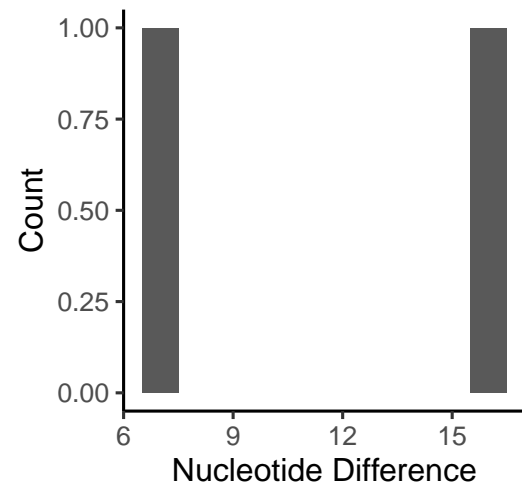
IGHV3-64*01

139 sequences assigned
30 (21.6%) exact matches, in which:
30 unique CDR3
5 unique J



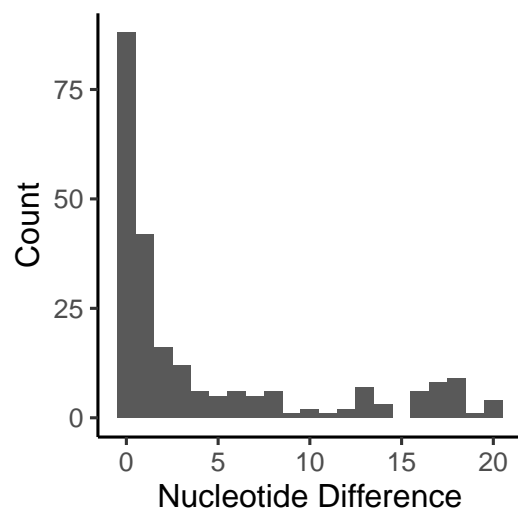
IGHV3-69-1*01

2 sequences assigned
No exact matches.



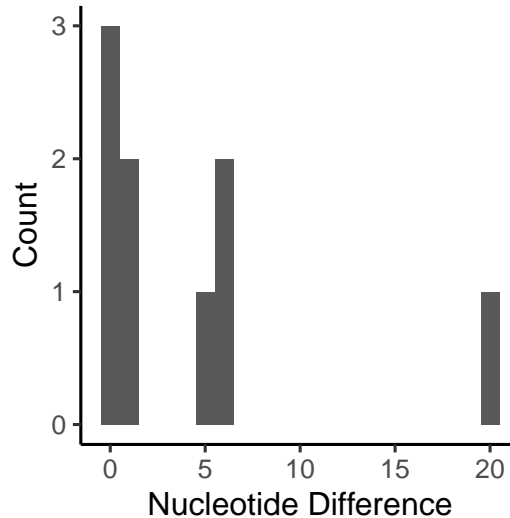
IGHV3-49*05

269 sequences assigned
88 (32.7%) exact matches, in which:
88 unique CDR3
6 unique J



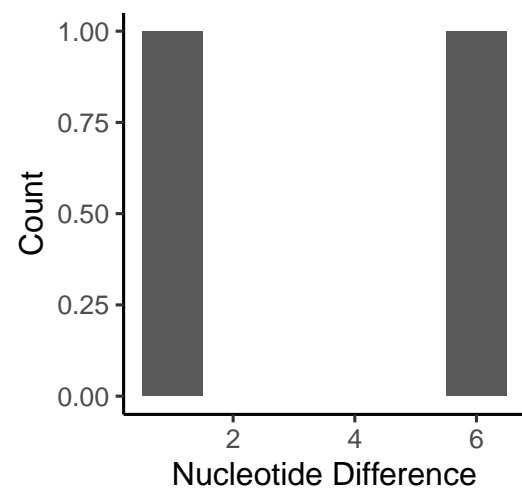
IGHV3-64*02

14 sequences assigned
3 (21.4%) exact matches, in which:
3 unique CDR3
2 unique J



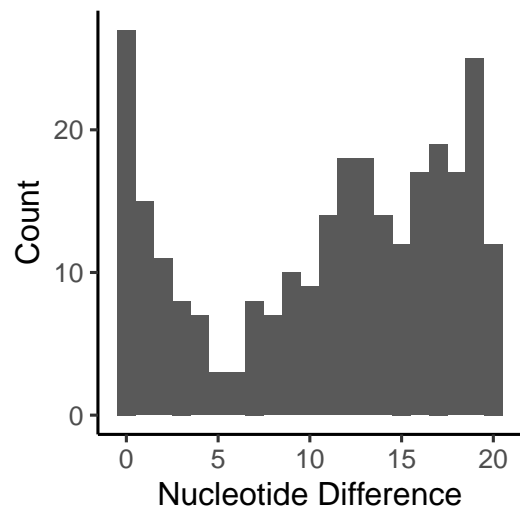
IGHV3-69-1*02

3 sequences assigned
No exact matches.



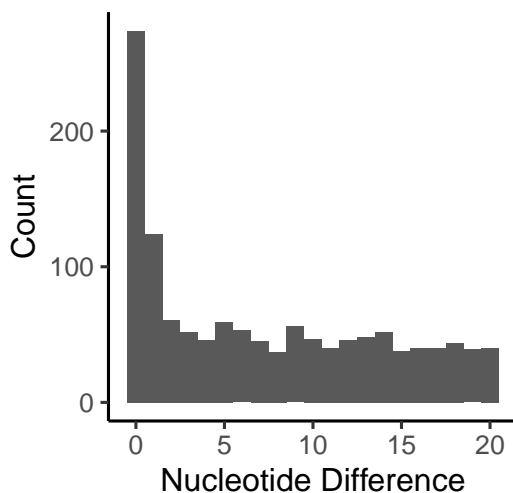
IGHV3-72*01

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



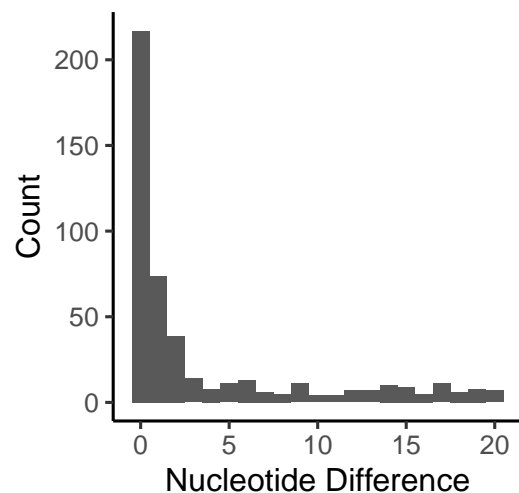
IGHV3-74*01

1575 sequences assigned
274 (17.4%) exact matches, in which:
270 unique CDR3
6 unique J



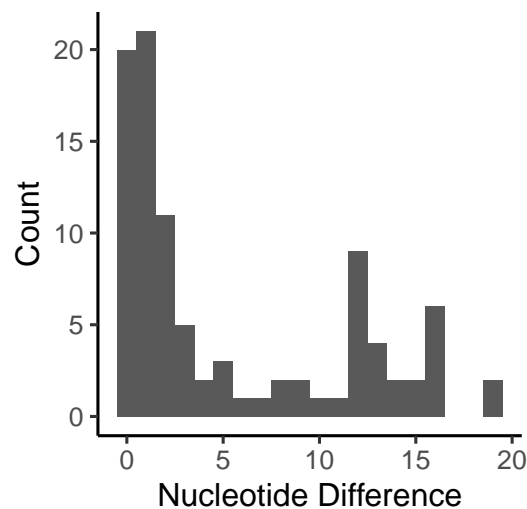
IGHV4-4*02

562 sequences assigned
217 (38.6%) exact matches, in which:
216 unique CDR3
6 unique J



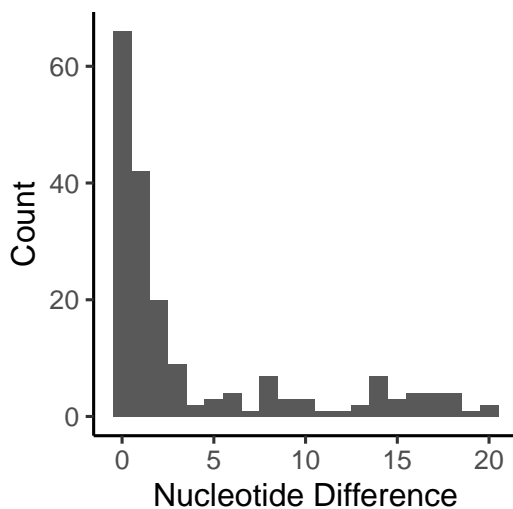
IGHV3-73*01

101 sequences assigned
20 (19.8%) exact matches, in which:
20 unique CDR3
4 unique J



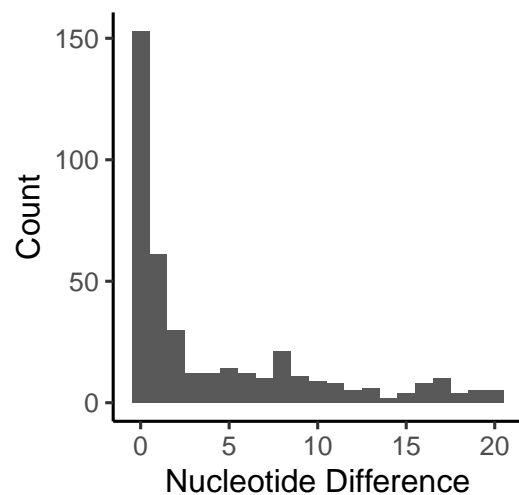
IGHV3-64D*06

217 sequences assigned
66 (30.4%) exact matches, in which:
65 unique CDR3
5 unique J



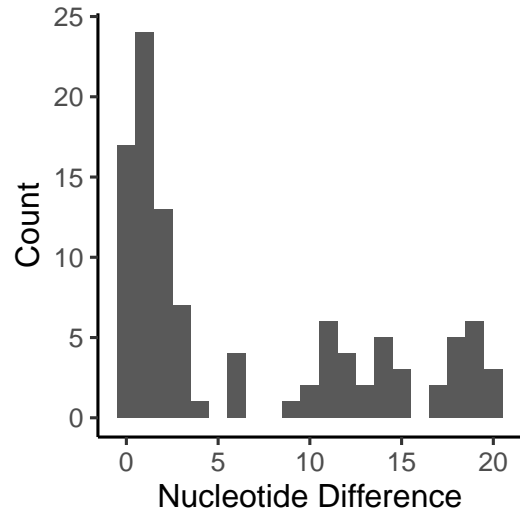
IGHV4-4*07

509 sequences assigned
153 (30.1%) exact matches, in which:
153 unique CDR3
5 unique J



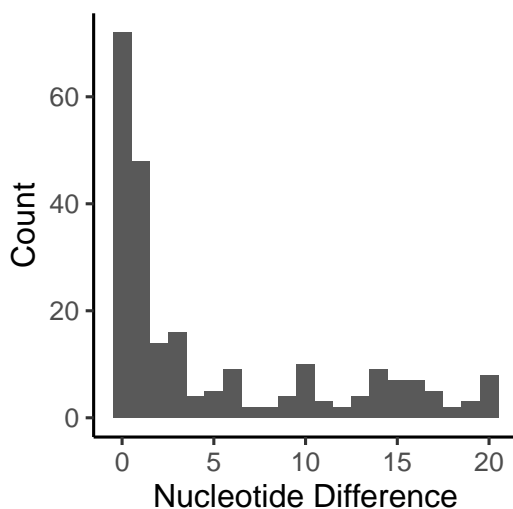
IGHV3-73*02

114 sequences assigned
17 (14.9%) exact matches, in which:
17 unique CDR3
5 unique J



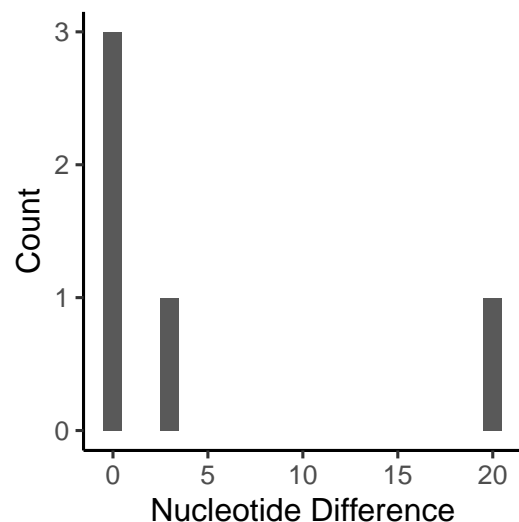
IGHV3-64D*08

275 sequences assigned
72 (26.2%) exact matches, in which:
72 unique CDR3
5 unique J



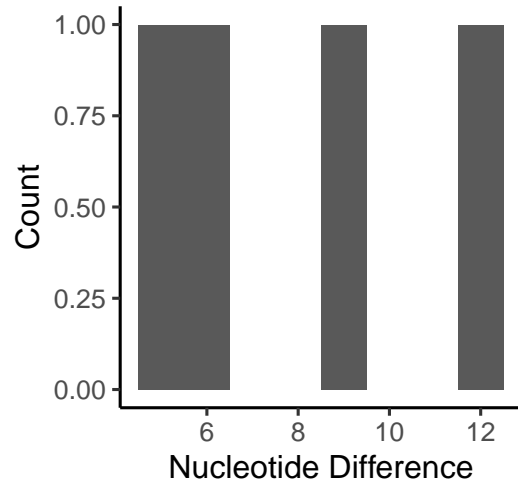
IGHV4-28*01

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



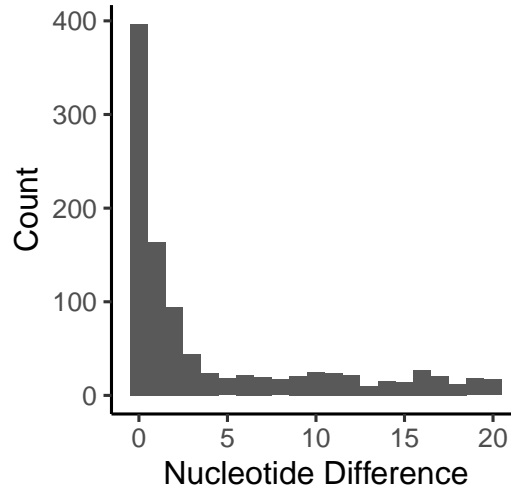
IGHV4-28*03

4 sequences assigned
No exact matches.



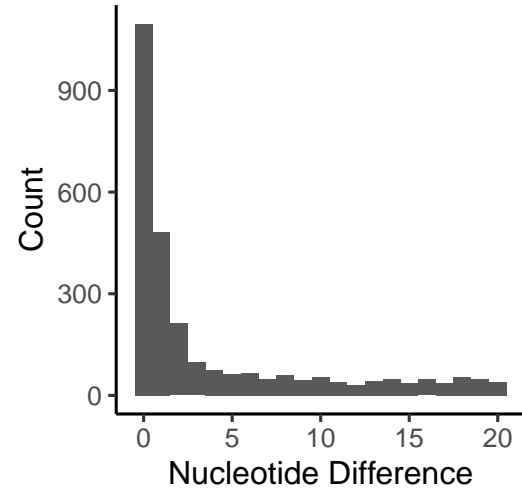
IGHV4-31*03

1184 sequences assigned
397 (33.5%) exact matches, in which:
396 unique CDR3
6 unique J



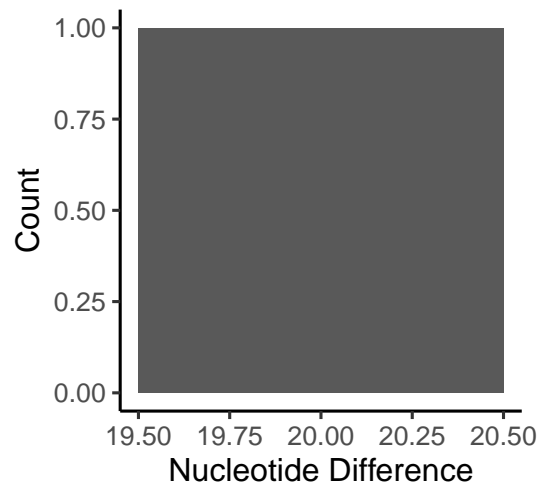
IGHV4-39*01

3300 sequences assigned
1097 (33.2%) exact matches, in which:
1088 unique CDR3
6 unique J



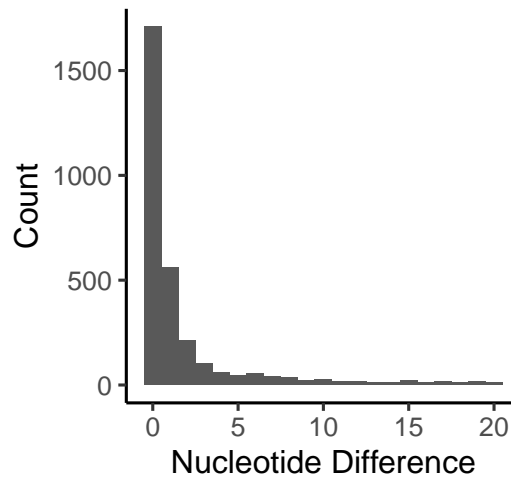
IGHV4-30-4*01

2 sequences assigned
No exact matches.



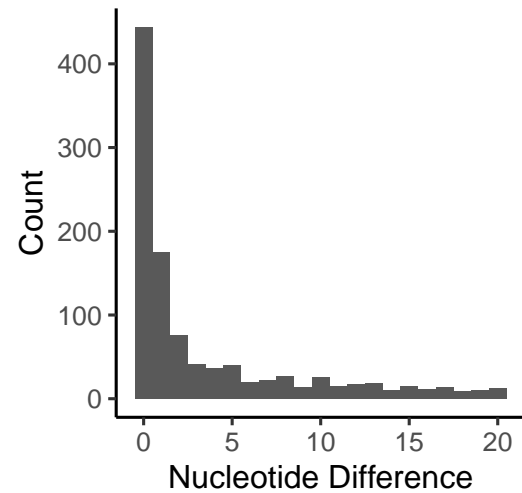
IGHV4-34*01

3220 sequences assigned
1709 (53.1%) exact matches, in which:
1700 unique CDR3
6 unique J



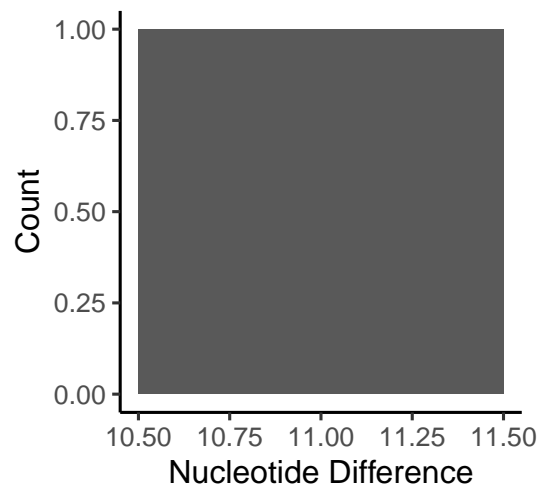
IGHV4-59*01

1210 sequences assigned
444 (36.7%) exact matches, in which:
442 unique CDR3
6 unique J



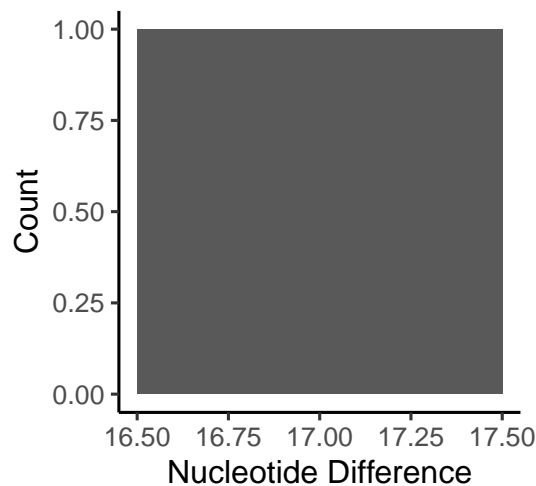
IGHV4-30-2*03

1 sequences assigned
No exact matches.



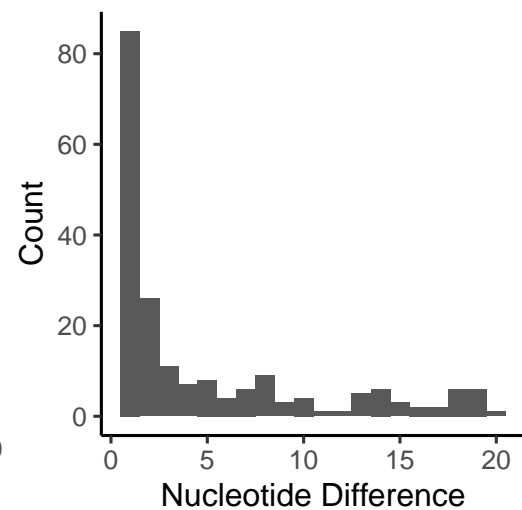
IGHV4-38-2*02

2 sequences assigned
No exact matches.



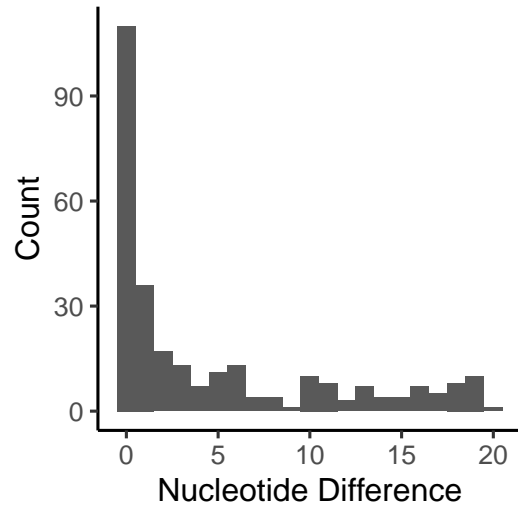
IGHV4-59*08

249 sequences assigned
No exact matches.



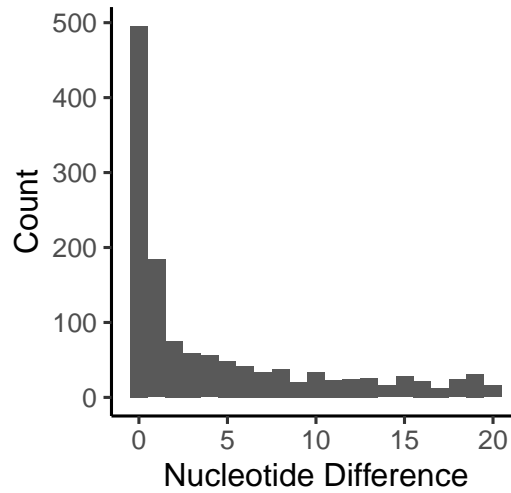
IGHV4-59*12

373 sequences assigned
110 (29.5%) exact matches, in which:
110 unique CDR3
6 unique J



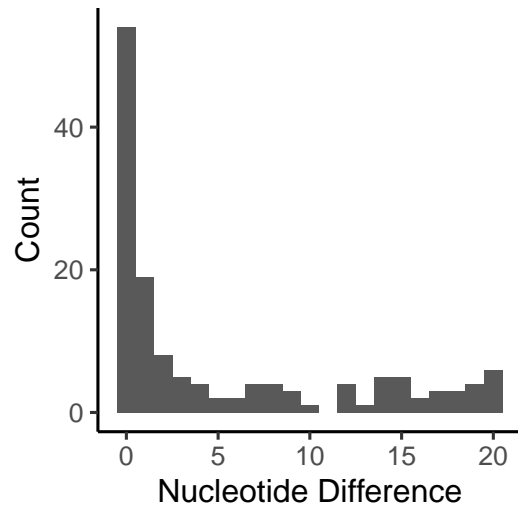
IGHV5-51*01

1430 sequences assigned
496 (34.7%) exact matches, in which:
493 unique CDR3
6 unique J



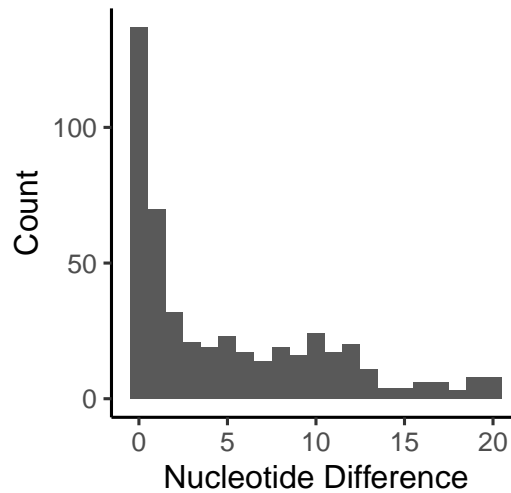
IGHV4-61*01

157 sequences assigned
54 (34.4%) exact matches, in which:
54 unique CDR3
6 unique J



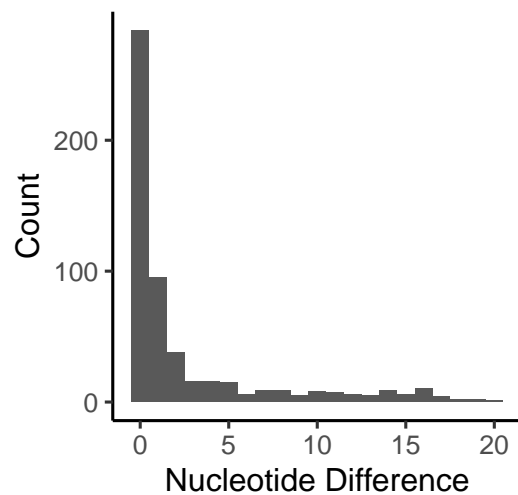
IGHV6-1*01

531 sequences assigned
137 (25.8%) exact matches, in which:
137 unique CDR3
5 unique J



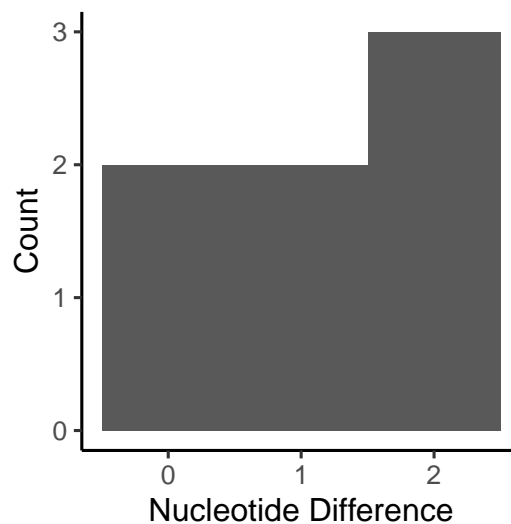
IGHV5-10-1*03

590 sequences assigned
284 (48.1%) exact matches, in which:
280 unique CDR3
6 unique J



IGHV7-4-1*01

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
2 unique J





Warning – no inferred sequences found.