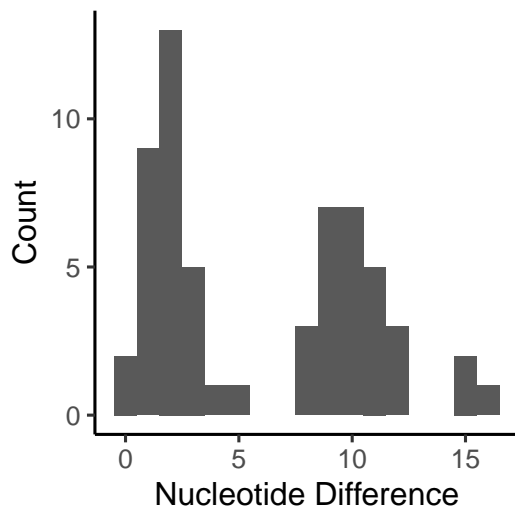


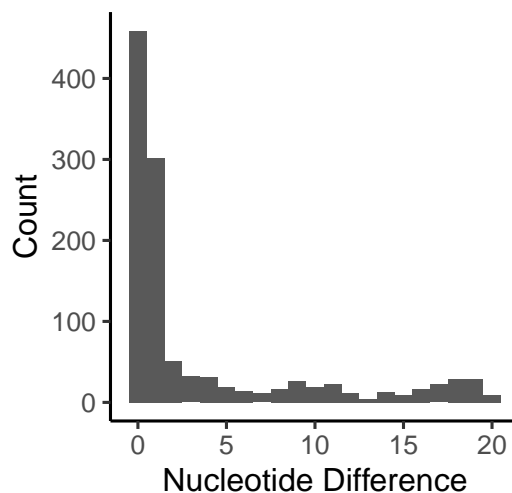
IGHV1-2*02

60 sequences assigned
2 (3.3%) exact matches, in which:
2 unique CDR3
1 unique J



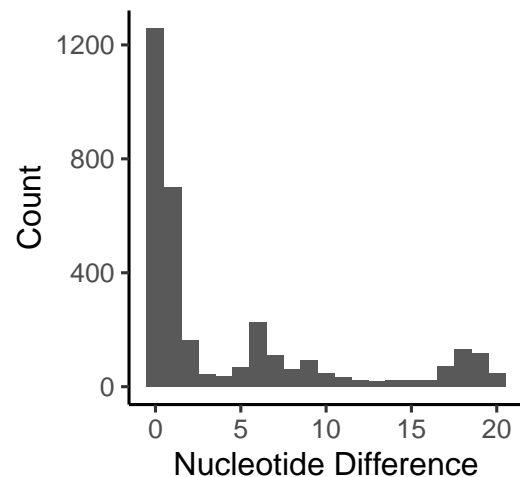
IGHV1-3*01_05

2028 sequences assigned
459 (22.6%) exact matches, in which:
425 unique CDR3
6 unique J



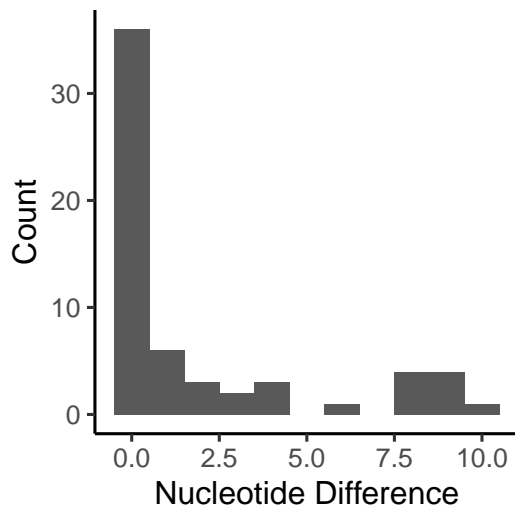
IGHV1-18*01

4009 sequences assigned
1258 (31.4%) exact matches, in which:
1175 unique CDR3
6 unique J



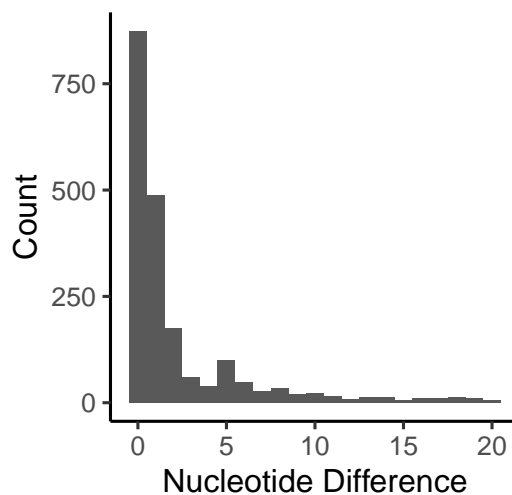
IGHV1-2*05

60 sequences assigned
36 (60%) exact matches, in which:
36 unique CDR3
4 unique J



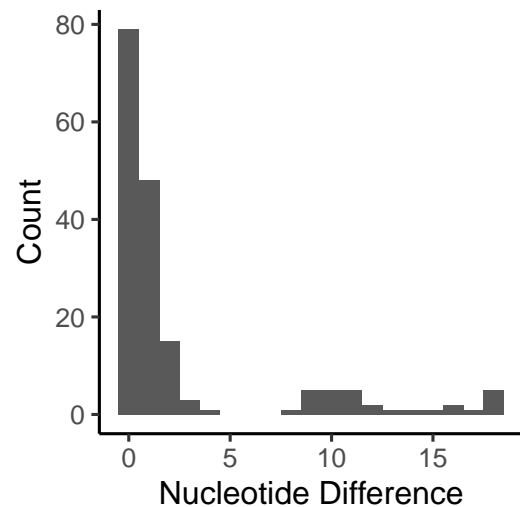
IGHV1-8*01

2587 sequences assigned
874 (33.8%) exact matches, in which:
836 unique CDR3
6 unique J



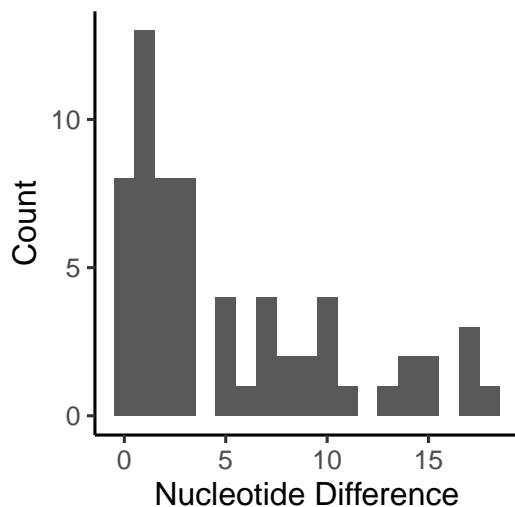
IGHV1-24*01

183 sequences assigned
79 (43.2%) exact matches, in which:
74 unique CDR3
5 unique J



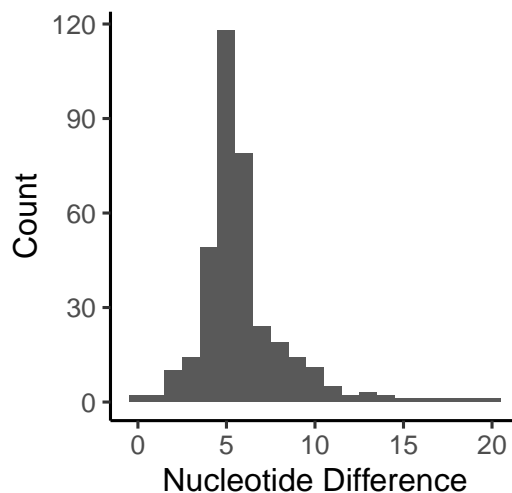
IGHV1-2*06

65 sequences assigned
8 (12.3%) exact matches, in which:
8 unique CDR3
2 unique J



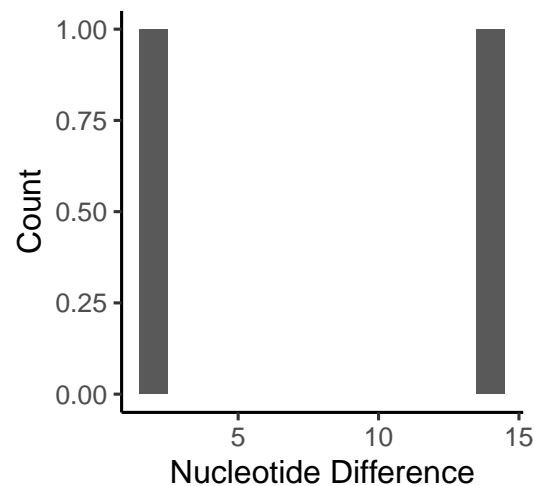
IGHV1-8*02

507 sequences assigned
2 (0.4%) exact matches, in which:
2 unique CDR3
2 unique J



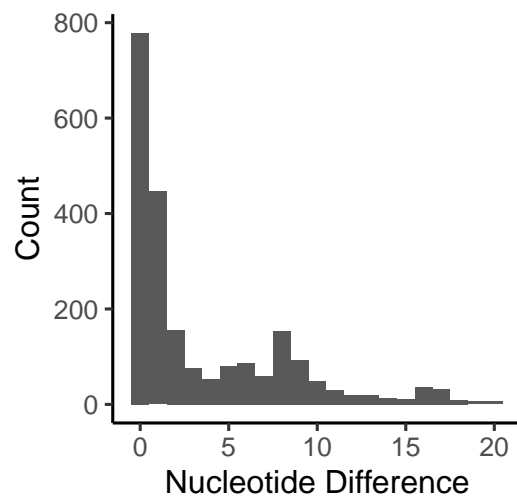
IGHV1-45*02

2 sequences assigned
No exact matches.



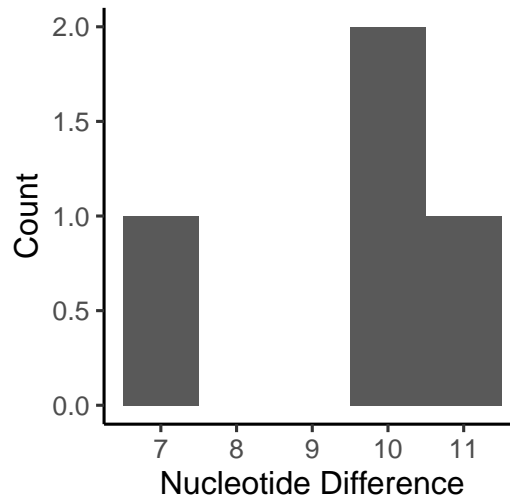
IGHV1-46*01

2419 sequences assigned
779 (32.2%) exact matches, in which:
743 unique CDR3
6 unique J



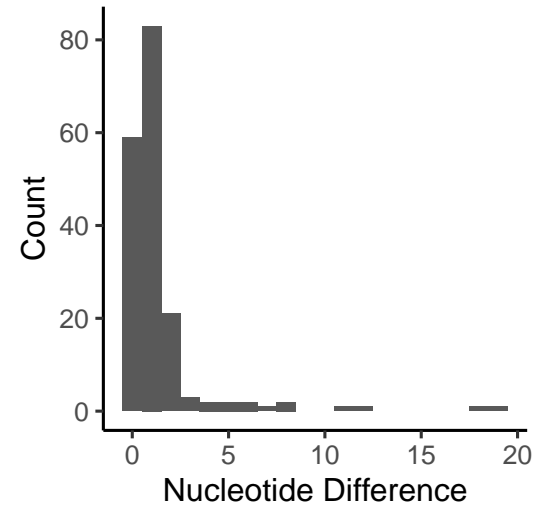
IGHV1-NL1*01

4 sequences assigned
No exact matches.



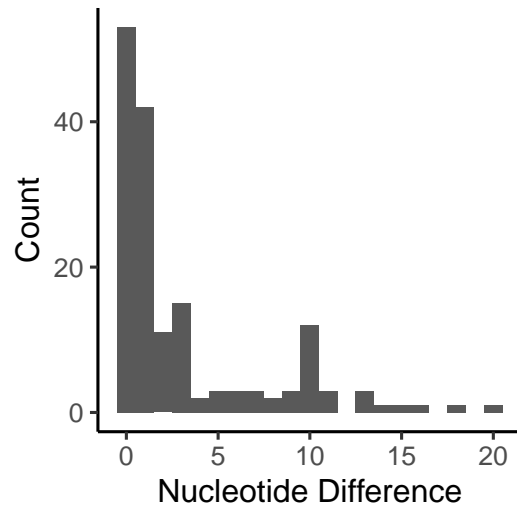
IGHV2-70*01

180 sequences assigned
59 (32.8%) exact matches, in which:
55 unique CDR3
4 unique J



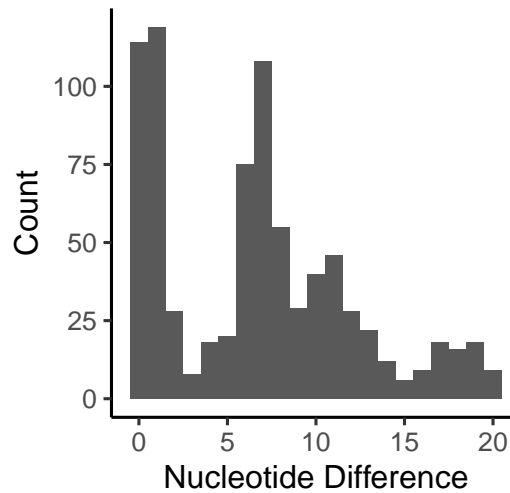
IGHV1-58*01_03

160 sequences assigned
53 (33.1%) exact matches, in which:
52 unique CDR3
6 unique J



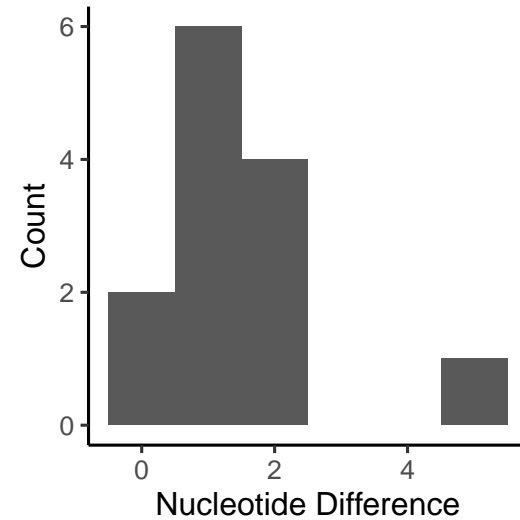
IGHV2-5*02

968 sequences assigned
114 (11.8%) exact matches, in which:
103 unique CDR3
5 unique J



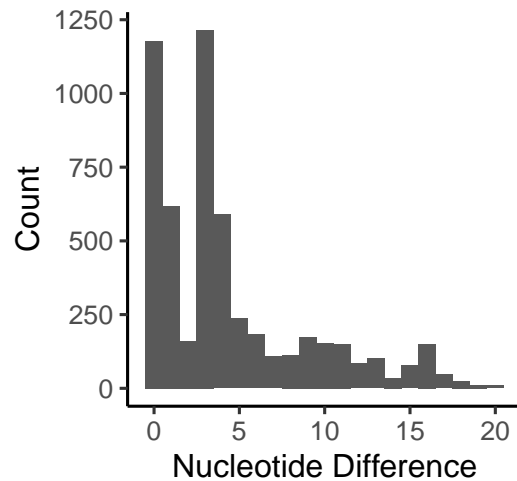
IGHV2-70*12

13 sequences assigned
2 (15.4%) exact matches, in which:
2 unique CDR3
2 unique J



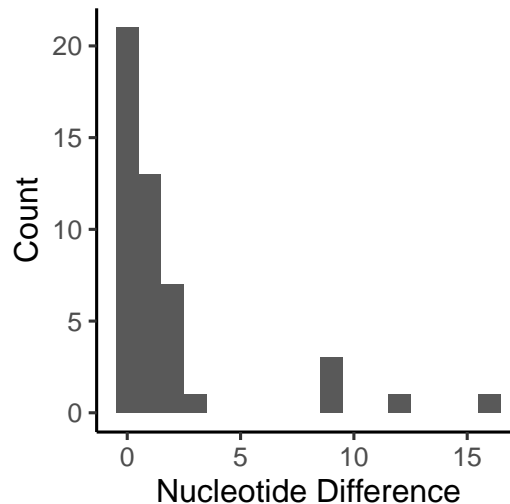
IGHV1-69*01_12_13

6328 sequences assigned
1178 (18.6%) exact matches, in which:
1125 unique CDR3
6 unique J



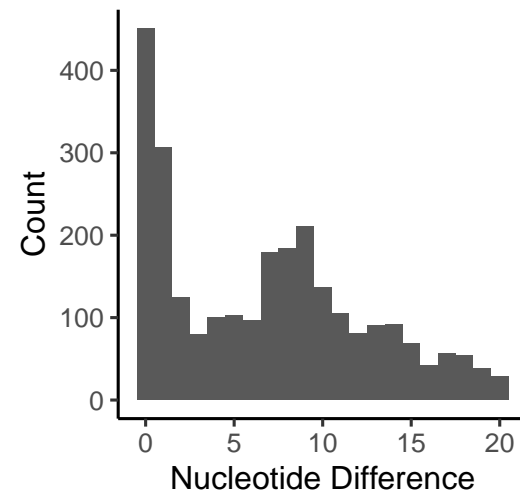
IGHV2-26*01

48 sequences assigned
21 (43.8%) exact matches, in which:
20 unique CDR3
5 unique J



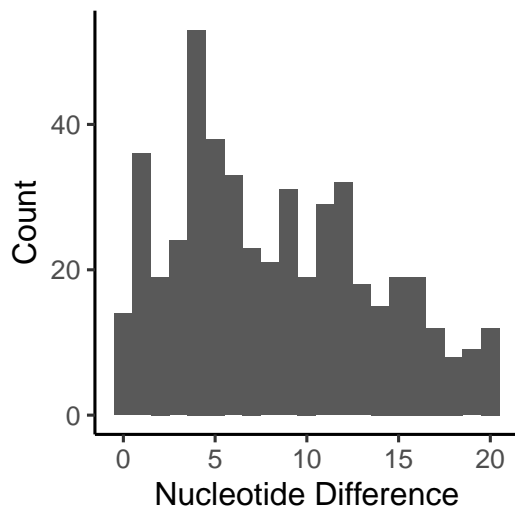
IGHV3-7*01

2772 sequences assigned
451 (16.3%) exact matches, in which:
365 unique CDR3
6 unique J



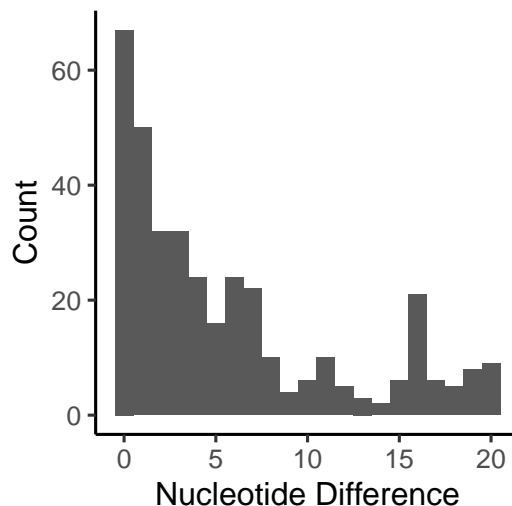
IGHV3-7*03

530 sequences assigned
14 (2.6%) exact matches, in which:
14 unique CDR3
2 unique J



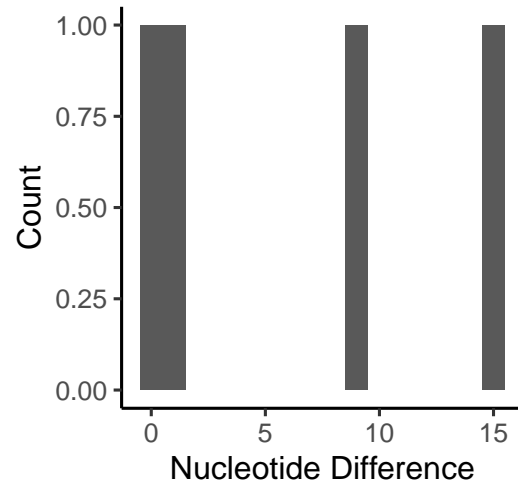
IGHV3-11*04

420 sequences assigned
67 (16%) exact matches, in which:
66 unique CDR3
5 unique J



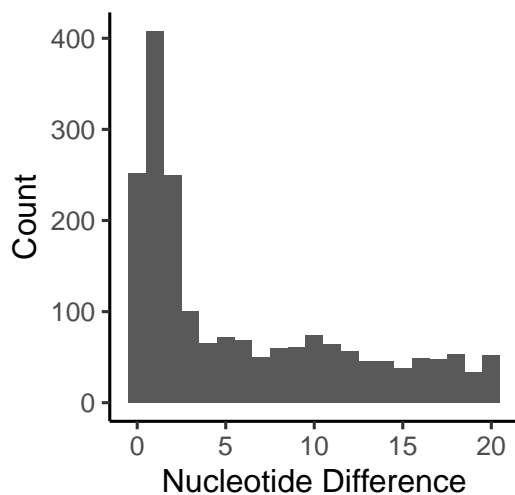
IGHV3-19*01

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



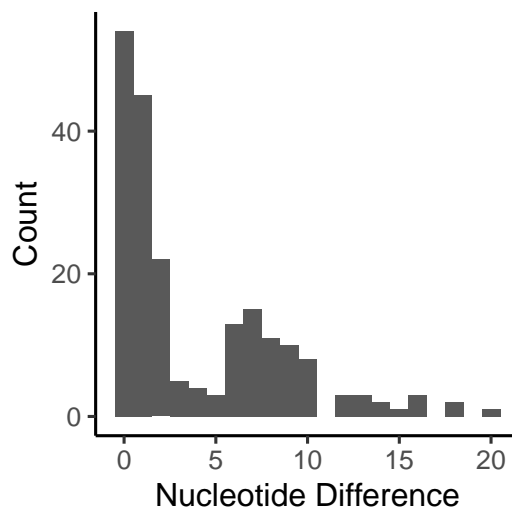
IGHV3-9*01

2605 sequences assigned
252 (9.7%) exact matches, in which:
215 unique CDR3
6 unique J



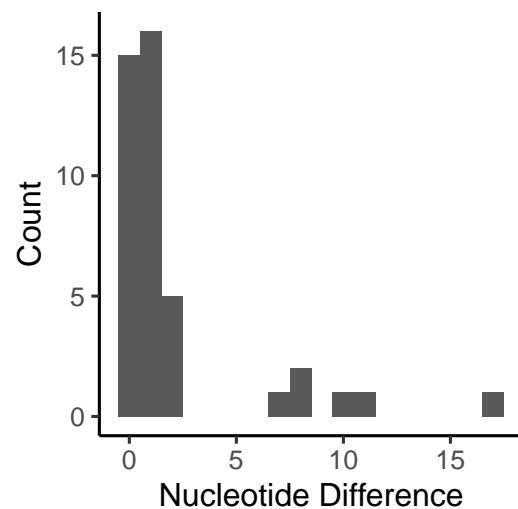
IGHV3-13*01

240 sequences assigned
54 (22.5%) exact matches, in which:
44 unique CDR3
5 unique J



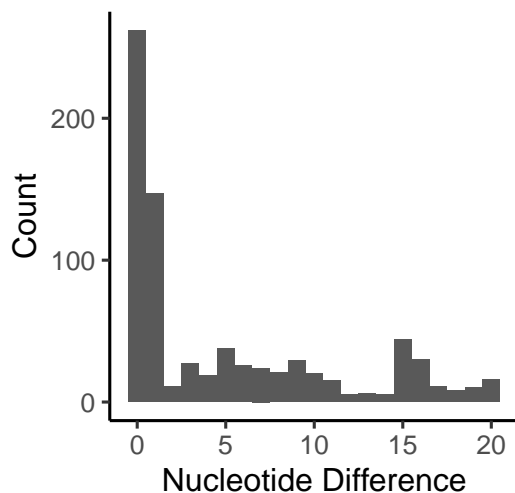
IGHV3-20*01_02

42 sequences assigned
15 (35.7%) exact matches, in which:
13 unique CDR3
3 unique J



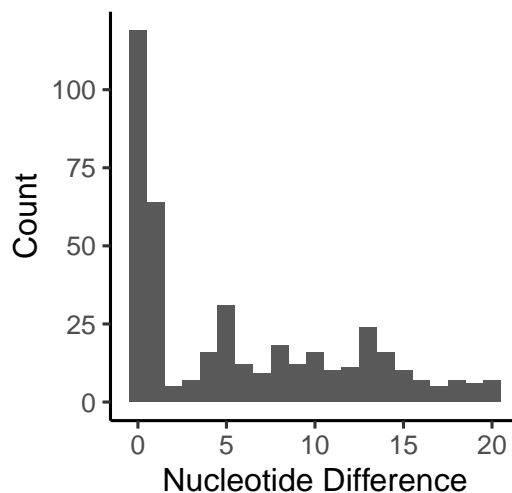
IGHV3-11*01

973 sequences assigned
262 (26.9%) exact matches, in which:
213 unique CDR3
6 unique J



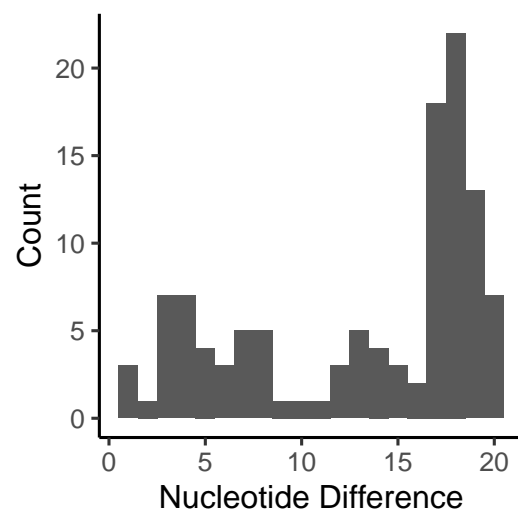
IGHV3-15*01_02

522 sequences assigned
119 (22.8%) exact matches, in which:
91 unique CDR3
5 unique J



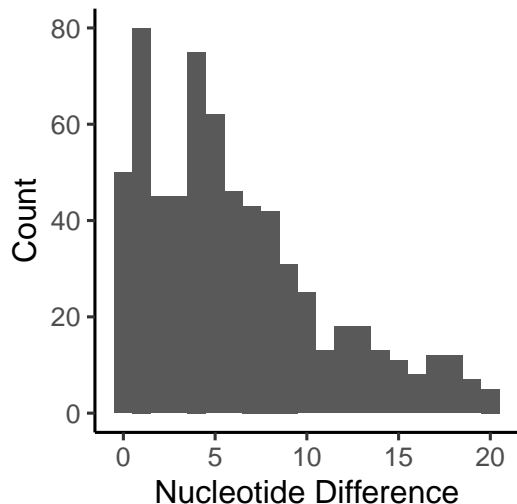
IGHV3-20*03_04

159 sequences assigned
No exact matches.



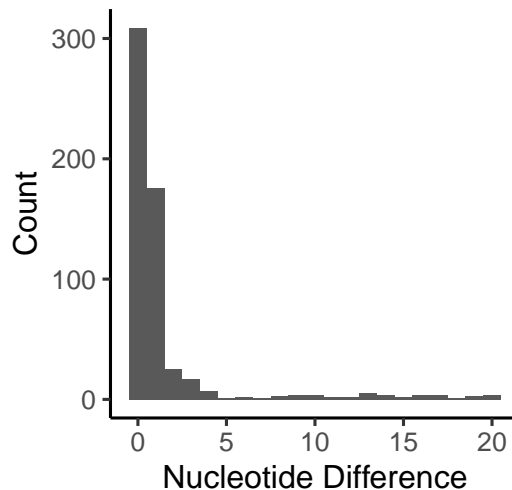
IGHV3-21*04

709 sequences assigned
50 (7.1%) exact matches, in which:
50 unique CDR3
5 unique J



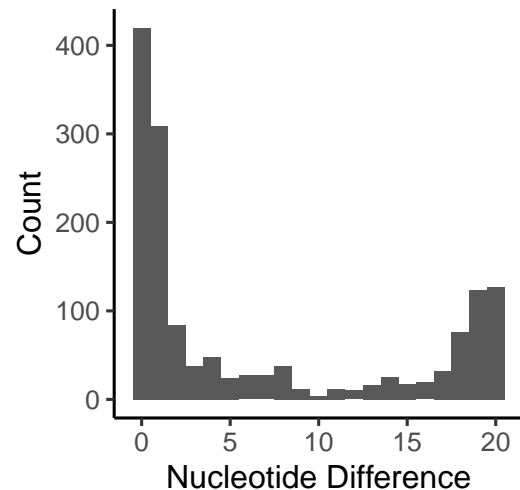
IGHV3-30-3*01

632 sequences assigned
309 (48.9%) exact matches, in which:
254 unique CDR3
6 unique J



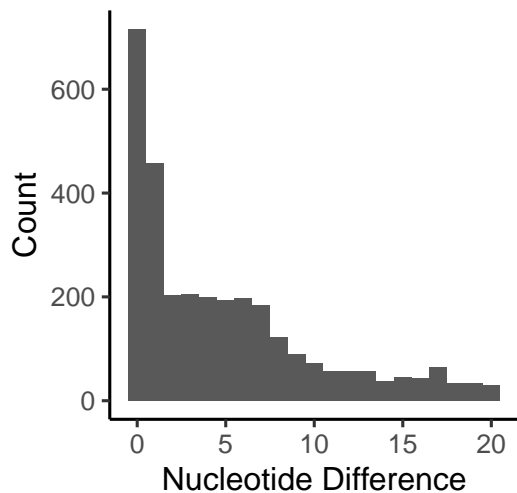
IGHV3-33*01

1903 sequences assigned
420 (22.1%) exact matches, in which:
357 unique CDR3
6 unique J



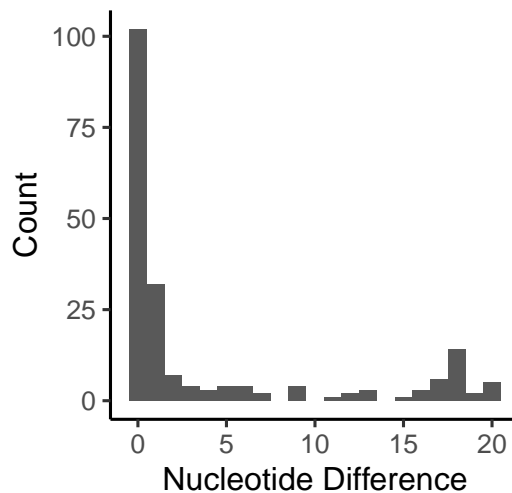
IGHV3-21*01_02

3414 sequences assigned
716 (21%) exact matches, in which:
589 unique CDR3
6 unique J



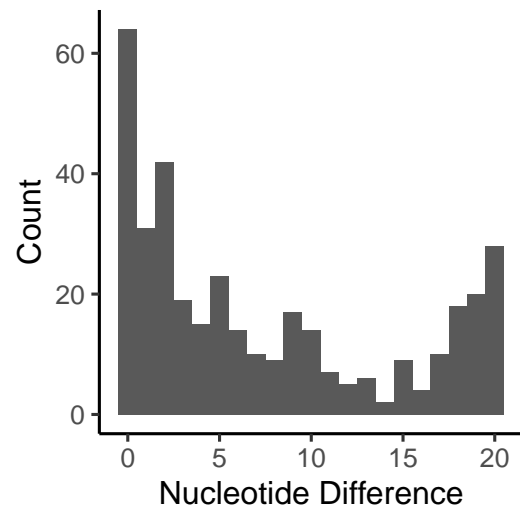
IGHV3-30*03

235 sequences assigned
102 (43.4%) exact matches, in which:
97 unique CDR3
6 unique J



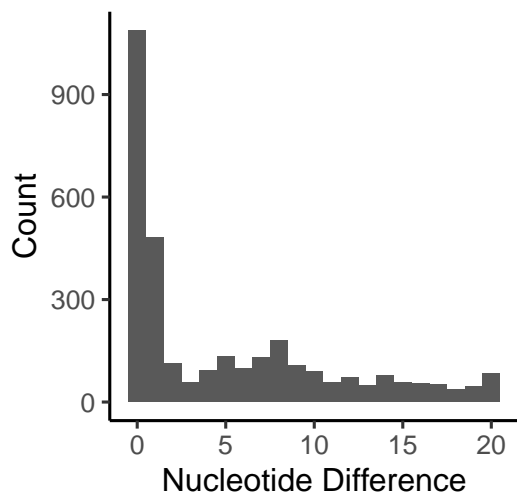
IGHV3-33*08

537 sequences assigned
64 (11.9%) exact matches, in which:
59 unique CDR3
6 unique J



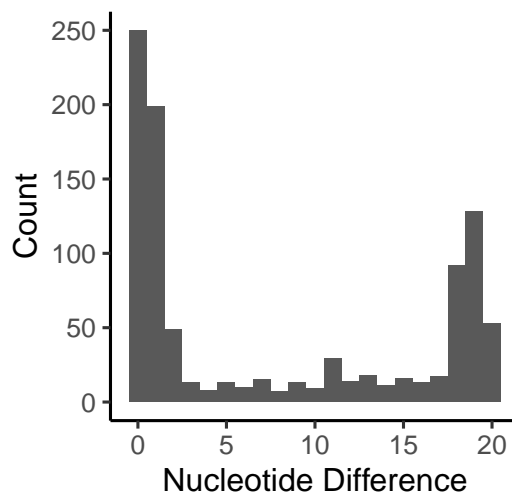
IGHV3-23*01_04

4402 sequences assigned
1088 (24.7%) exact matches, in which:
893 unique CDR3
6 unique J



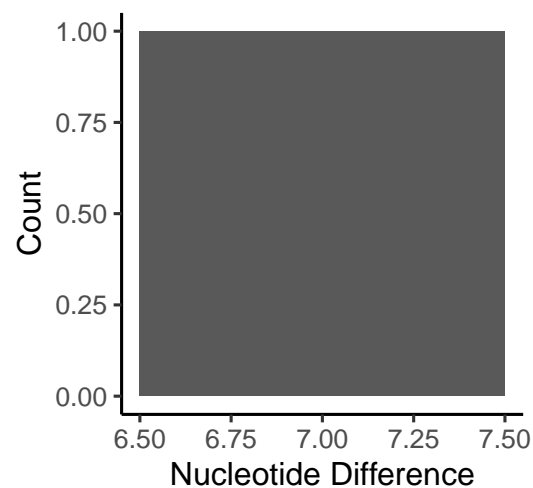
IGHV3-30*18

1306 sequences assigned
250 (19.1%) exact matches, in which:
180 unique CDR3
6 unique J



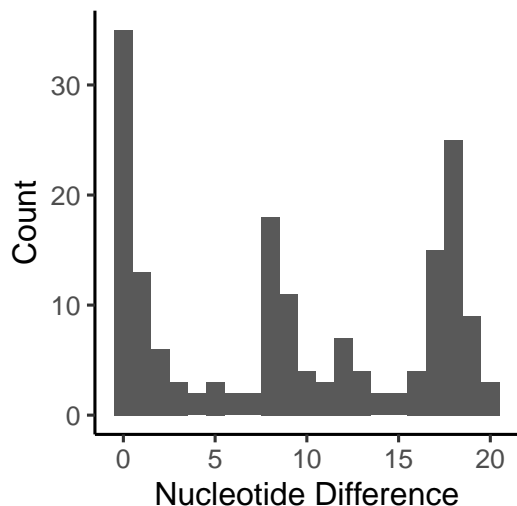
IGHV3-35*01

2 sequences assigned
No exact matches.



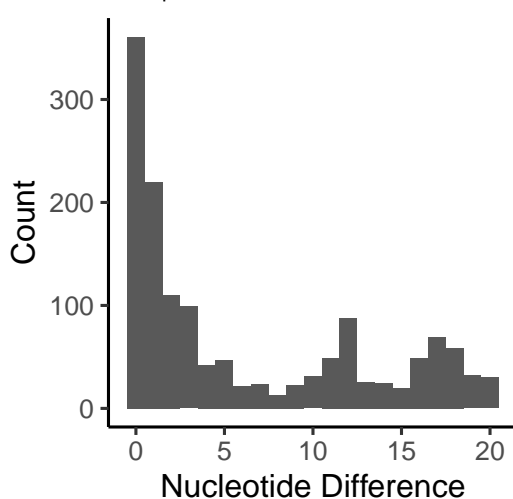
IGHV3-43*01

219 sequences assigned
35 (16%) exact matches, in which:
27 unique CDR3
4 unique J



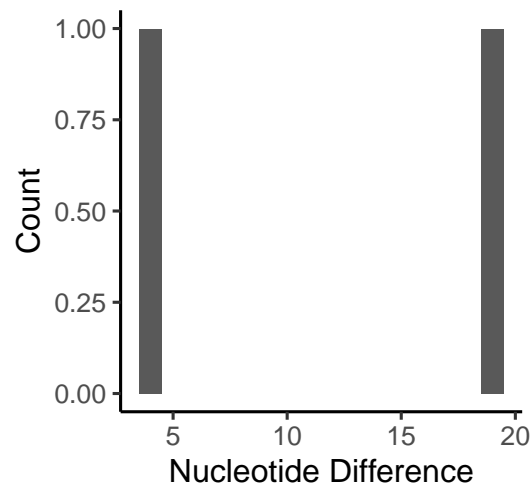
IGHV3-48*02

1597 sequences assigned
361 (22.6%) exact matches, in which:
268 unique CDR3
6 unique J



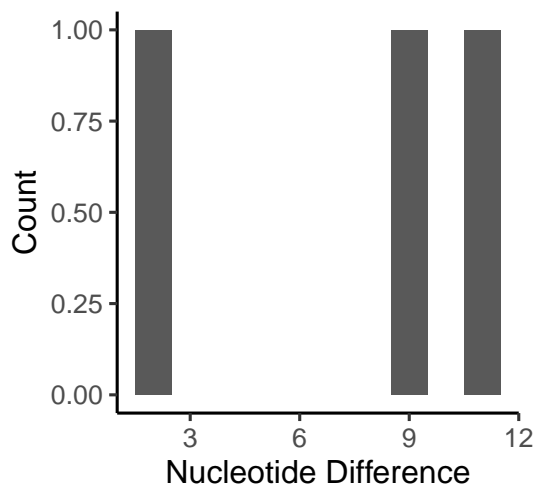
IGHV3-52*01_03

2 sequences assigned
No exact matches.



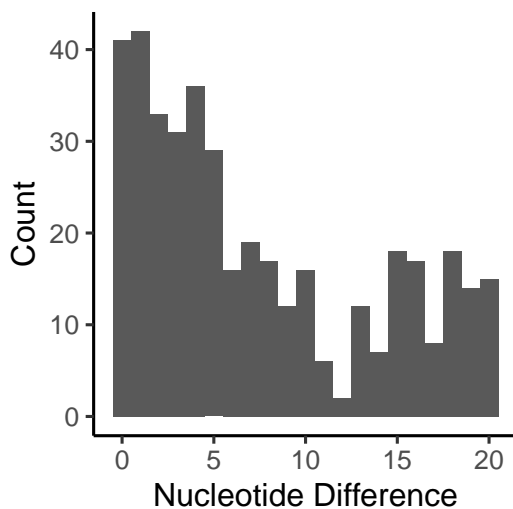
IGHV3-47*02

3 sequences assigned
No exact matches.



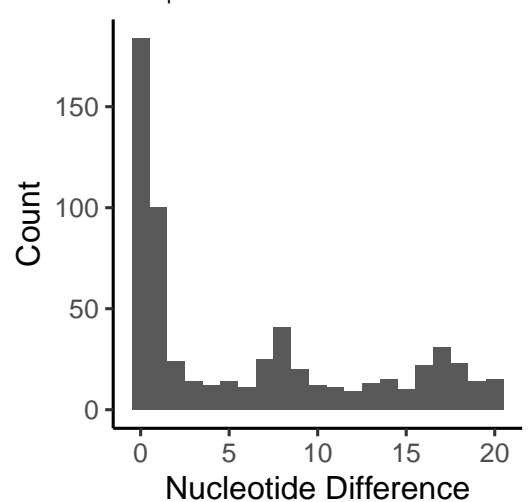
IGHV3-48*04

479 sequences assigned
41 (8.6%) exact matches, in which:
40 unique CDR3
4 unique J



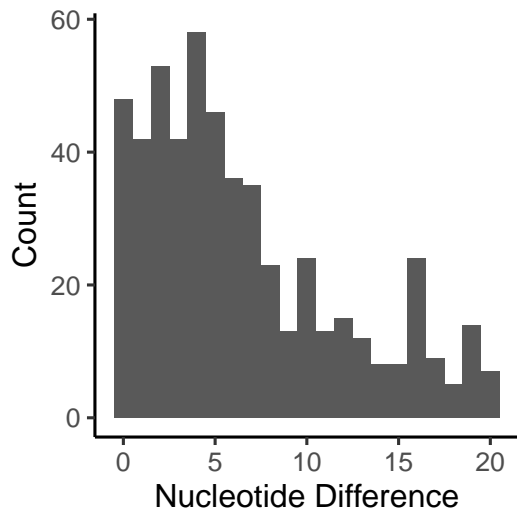
IGHV3-53*01_02

805 sequences assigned
184 (22.9%) exact matches, in which:
160 unique CDR3
6 unique J



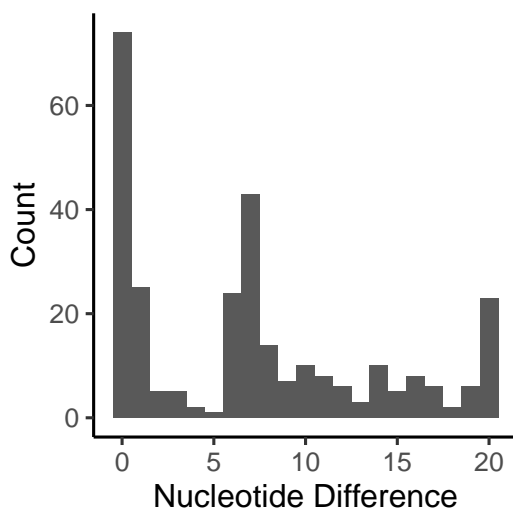
IGHV3-48*01

574 sequences assigned
48 (8.4%) exact matches, in which:
47 unique CDR3
5 unique J



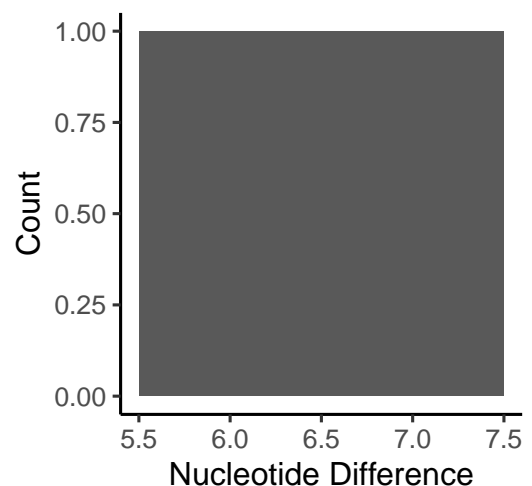
IGHV3-49*03_05

450 sequences assigned
74 (16.4%) exact matches, in which:
53 unique CDR3
6 unique J



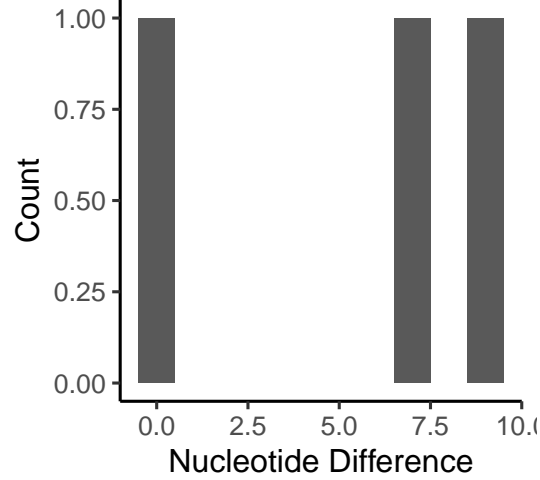
IGHV3-64*04

8 sequences assigned
No exact matches.



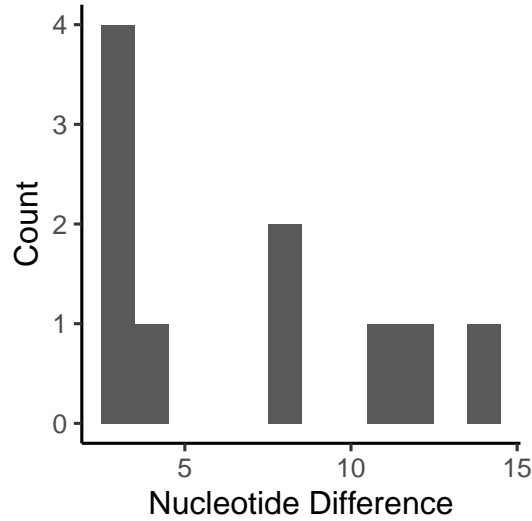
IGHV3-64*02_07

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



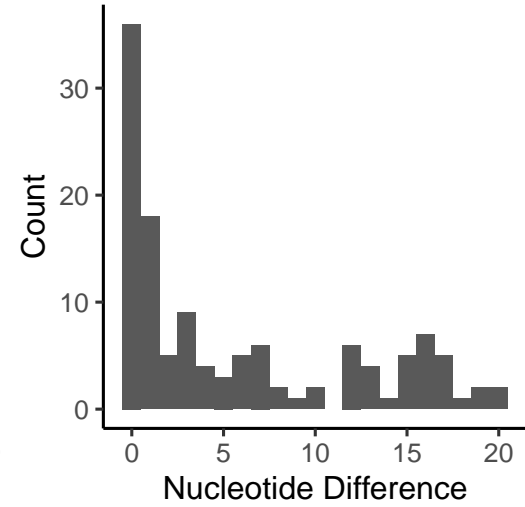
IGHV3-69-1*01

22 sequences assigned
No exact matches.



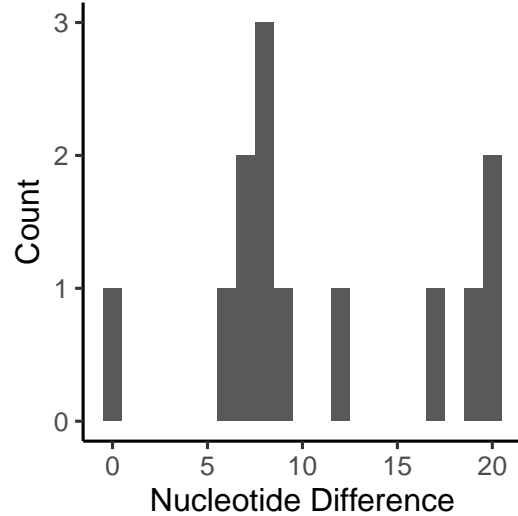
IGHV3-73*01_02

228 sequences assigned
36 (15.8%) exact matches, in which:
27 unique CDR3
3 unique J



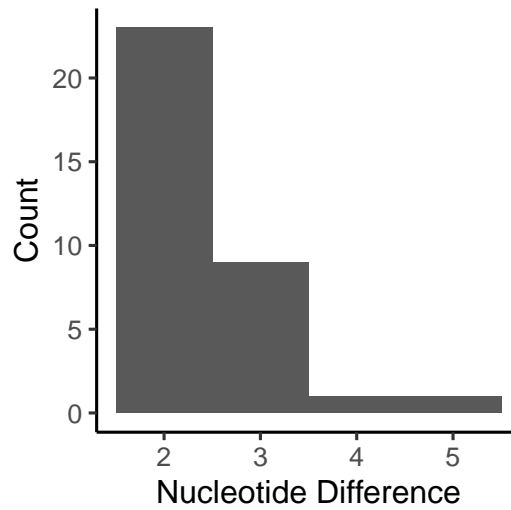
IGHV3-66*02

17 sequences assigned
1 (5.9%) exact matches, in which:
1 unique CDR3
1 unique J



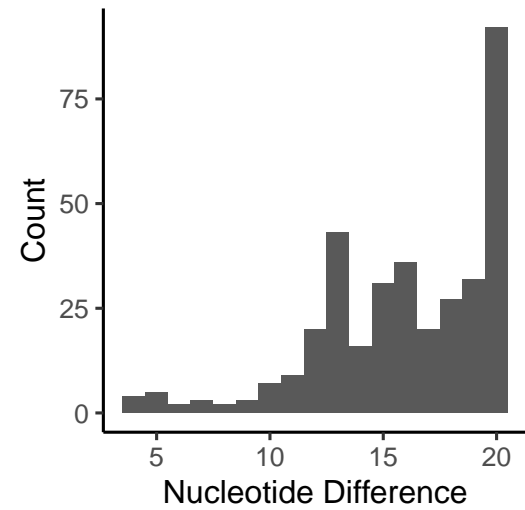
IGHV3-69-1*02

34 sequences assigned
No exact matches.



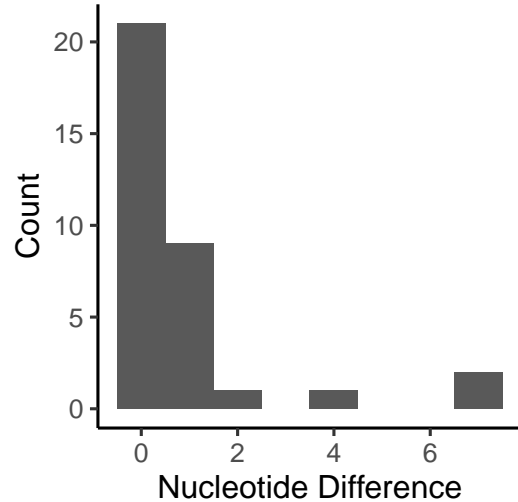
IGHV3-74*03

815 sequences assigned
No exact matches.



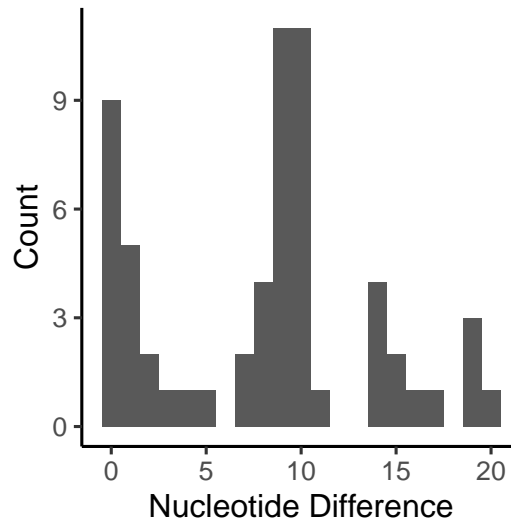
IGHV3-66*03

34 sequences assigned
21 (61.8%) exact matches, in which:
17 unique CDR3
4 unique J



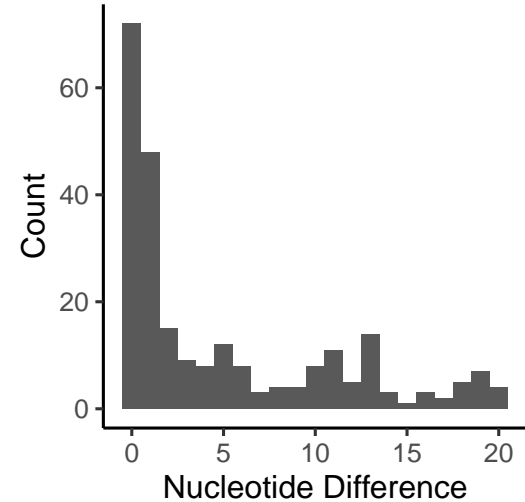
IGHV3-72*01

145 sequences assigned
9 (6.2%) exact matches, in which:
7 unique CDR3
2 unique J



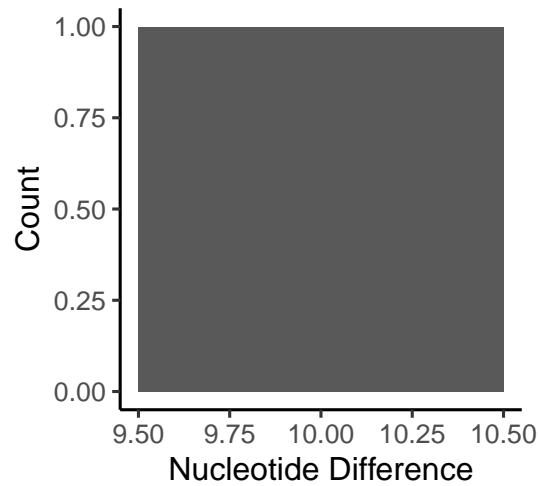
IGHV3-74*01_02

262 sequences assigned
72 (27.5%) exact matches, in which:
56 unique CDR3
5 unique J



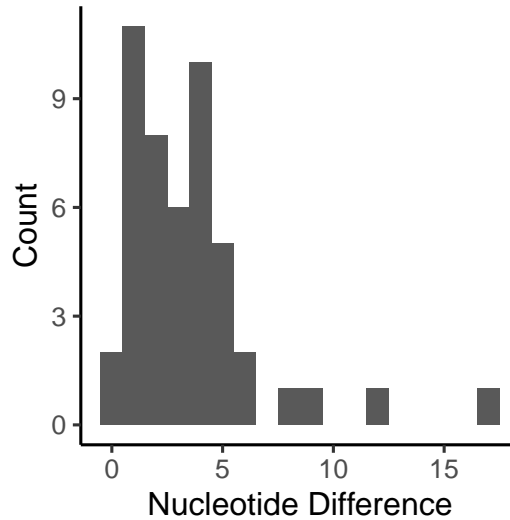
IGHV3-43D*04

1 sequences assigned
No exact matches.



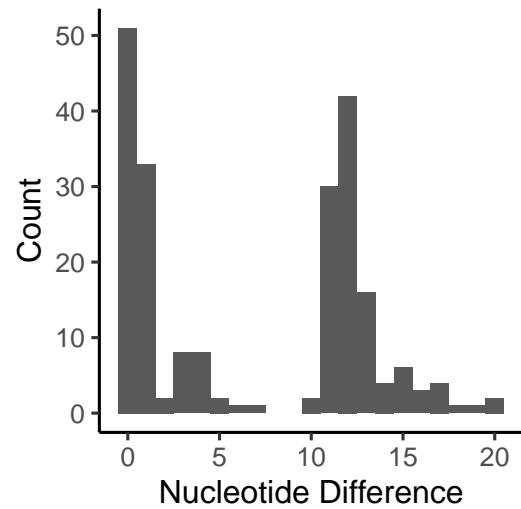
IGHV4-4*02_03

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



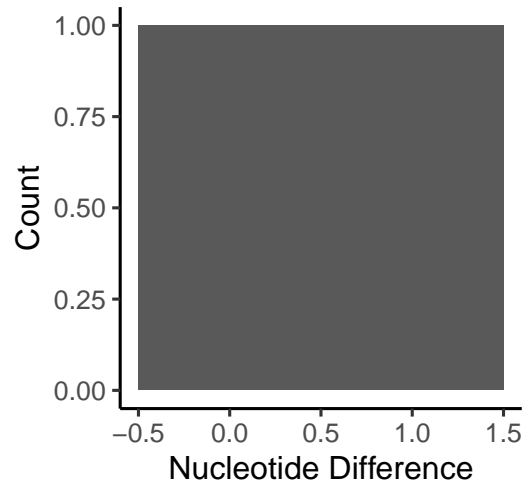
IGHV4-30-4*01

223 sequences assigned
51 (22.9%) exact matches, in which:
45 unique CDR3
4 unique J



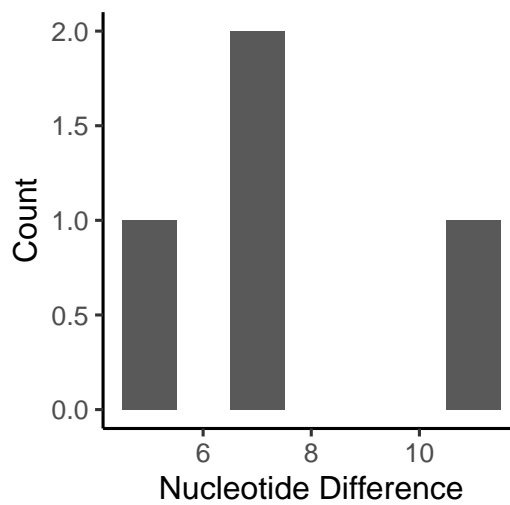
IGHV3-64D*06

17 sequences assigned
1 (5.9%) exact matches, in which:
1 unique CDR3
1 unique J



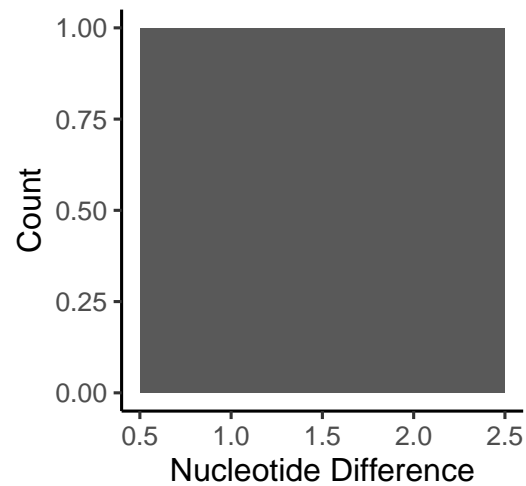
IGHV4-28*03

4 sequences assigned
No exact matches.



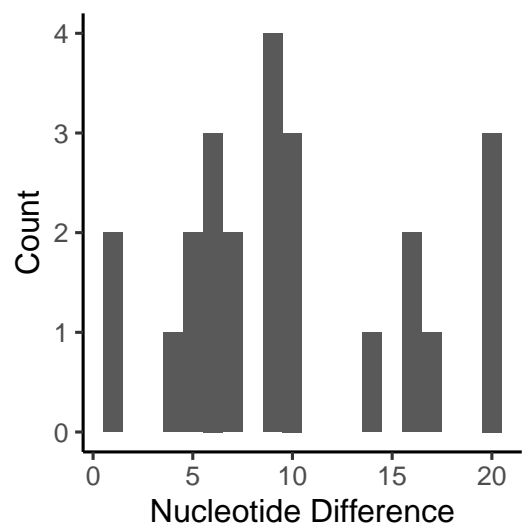
IGHV4-30-2*01

2 sequences assigned
No exact matches.



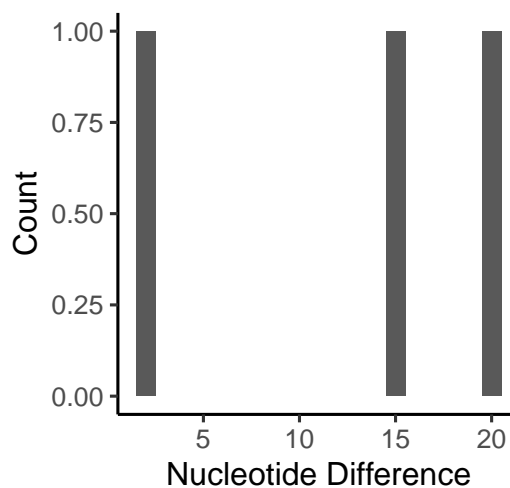
IGHV3-NL1*01

42 sequences assigned
No exact matches.



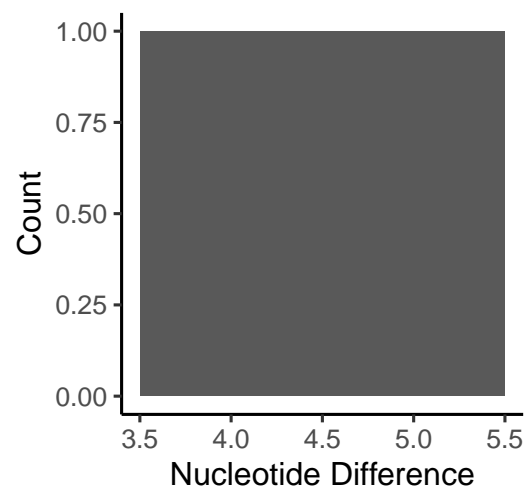
IGHV4-28*01_07

17 sequences assigned
No exact matches.



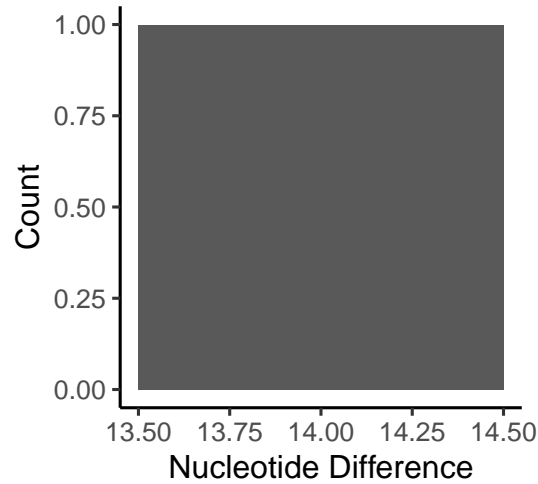
IGHV4-30-2*05

2 sequences assigned
No exact matches.



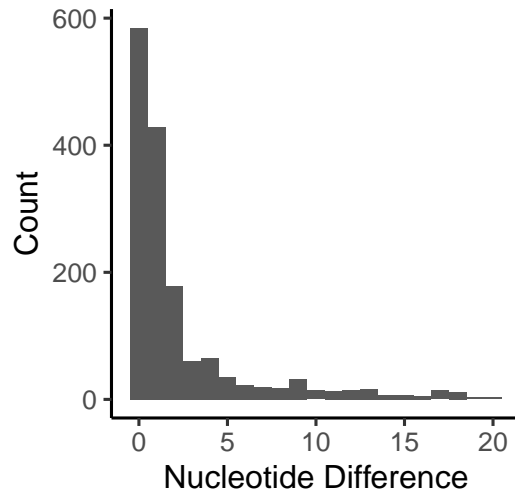
IGHV4-30-2*06

1 sequences assigned
No exact matches.



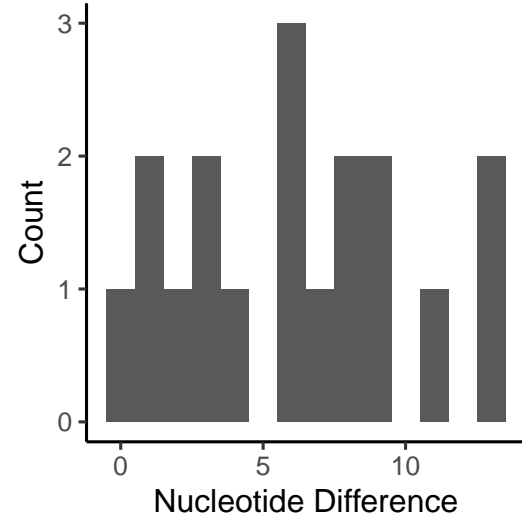
IGHV4-34*01_02

1779 sequences assigned
585 (32.9%) exact matches, in which:
524 unique CDR3
6 unique J



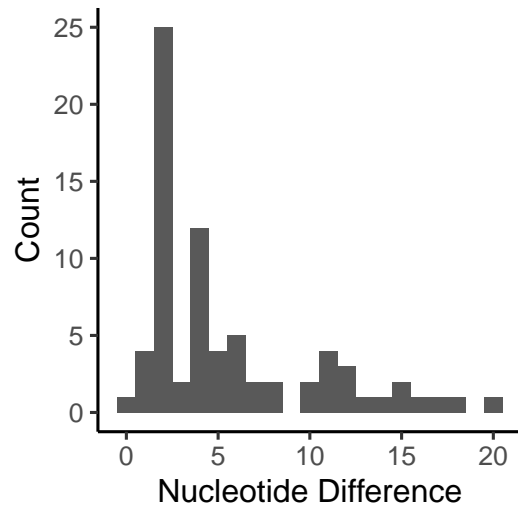
IGHV4-39*07

19 sequences assigned
1 (5.3%) exact matches, in which:
1 unique CDR3
1 unique J



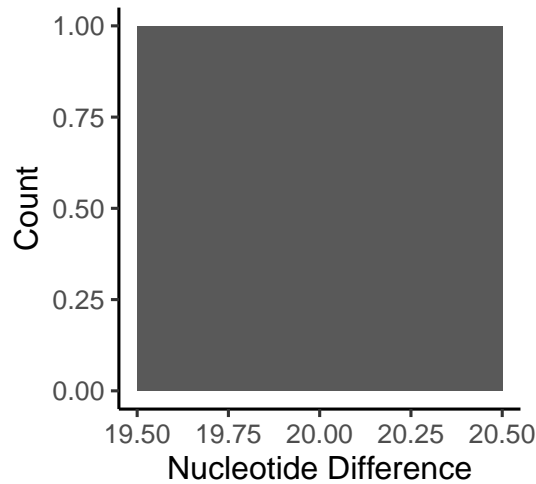
IGHV4-30-4*08

76 sequences assigned
1 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



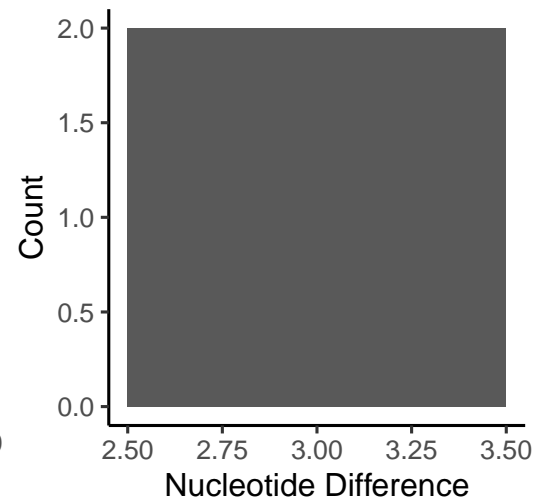
IGHV4-38-2*02

1 sequences assigned
No exact matches.



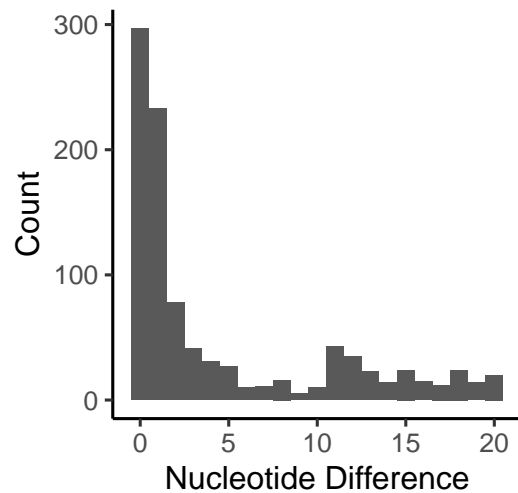
IGHV4-55*09

2 sequences assigned
No exact matches.



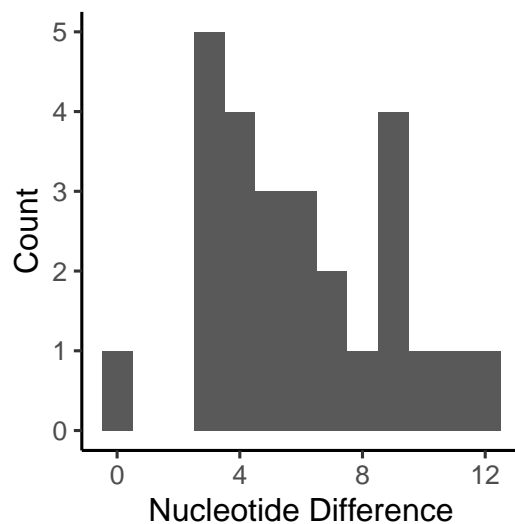
IGHV4-31*02

1201 sequences assigned
297 (24.7%) exact matches, in which:
265 unique CDR3
6 unique J



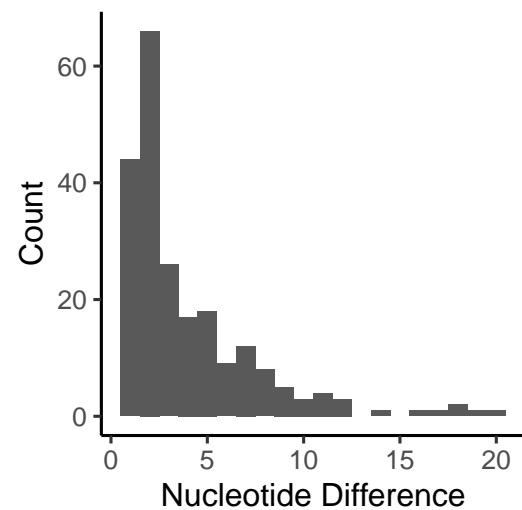
IGHV4-39*02

38 sequences assigned
1 (2.6%) exact matches, in which:
1 unique CDR3
0 unique J



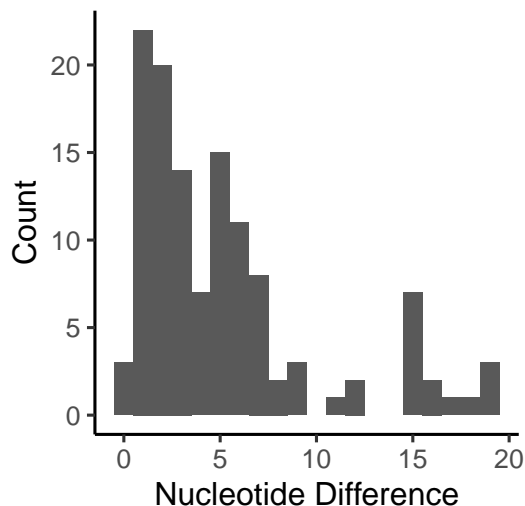
IGHV4-59*08

226 sequences assigned
No exact matches.



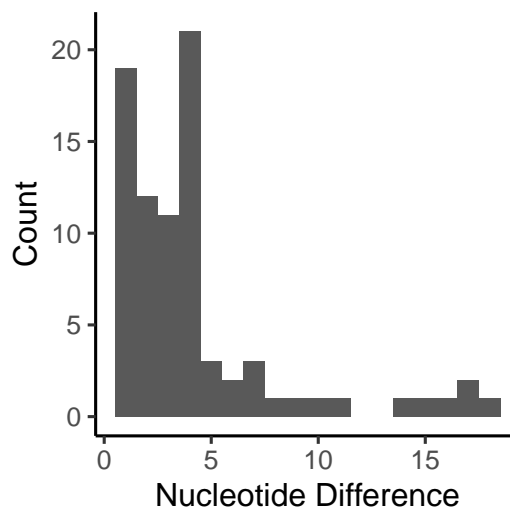
IGHV4-59*12

257 sequences assigned
3 (1.2%) exact matches, in which:
3 unique CDR3
2 unique J



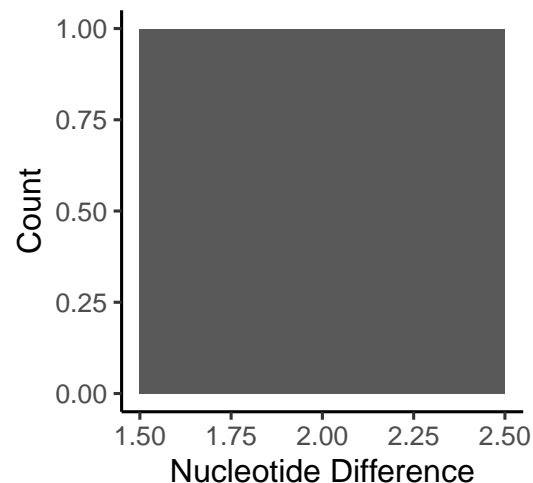
IGHV4-61*08

111 sequences assigned
No exact matches.



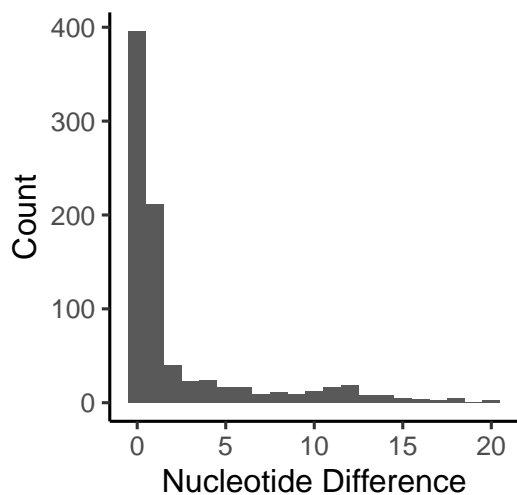
IGHV5-10-1*04

1 sequences assigned
No exact matches.



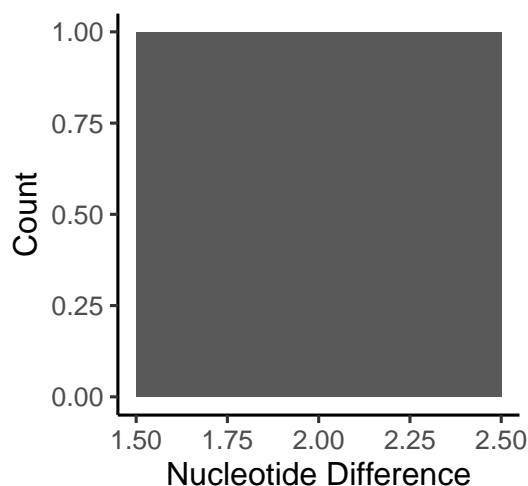
IGHV4-59*13

989 sequences assigned
396 (40%) exact matches, in which:
371 unique CDR3
6 unique J



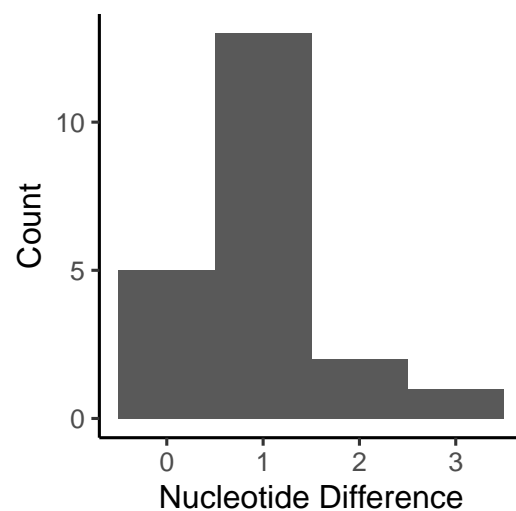
IGHV1/OR15-2*02_03

1 sequences assigned
No exact matches.



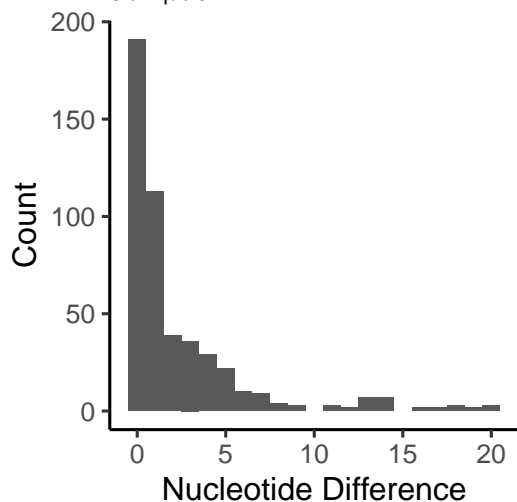
IGHV5-10-1*01_03

21 sequences assigned
5 (23.8%) exact matches, in which:
4 unique CDR3
2 unique J



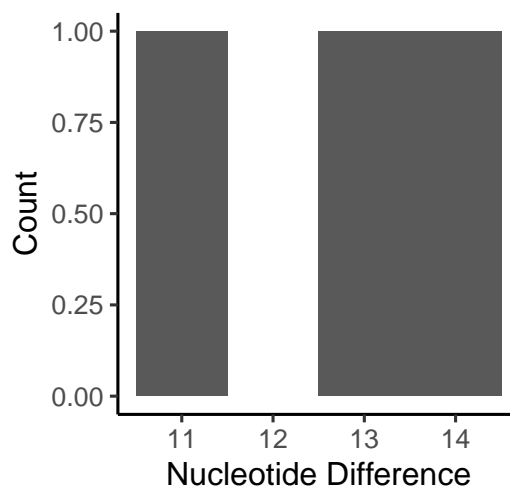
IGHV4-61*01

532 sequences assigned
191 (35.9%) exact matches, in which:
181 unique CDR3
6 unique J



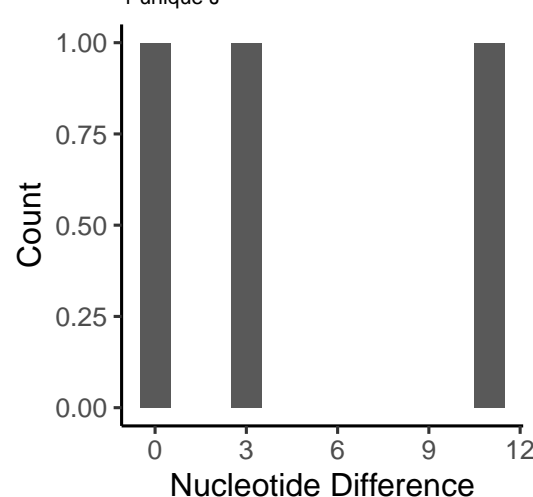
IGHV1/OR15-3*02

3 sequences assigned
No exact matches.



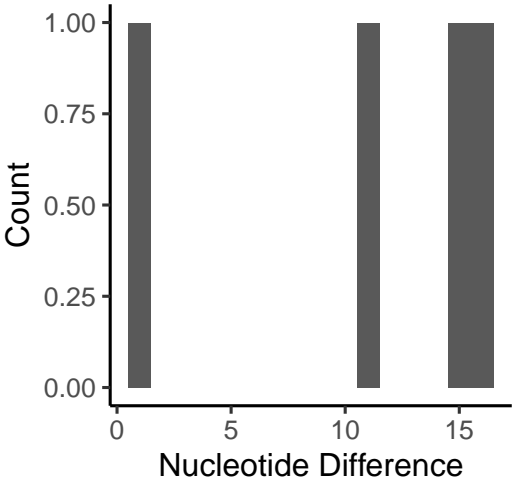
IGHV5-51*04

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



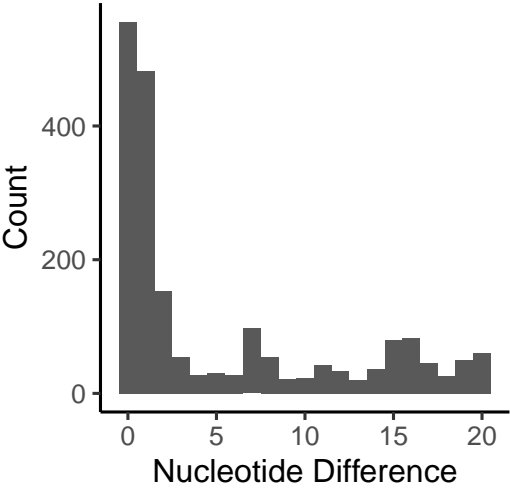
IGHV5-51*06

4 sequences assigned
No exact matches.



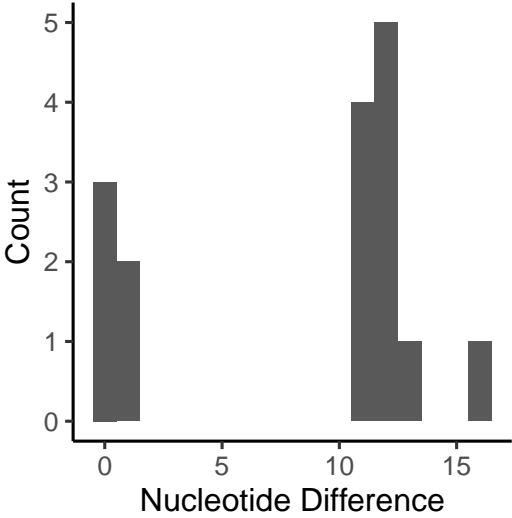
IGHV7-4-1*02

2721 sequences assigned
556 (20.4%) exact matches, in which:
523 unique CDR3
6 unique J



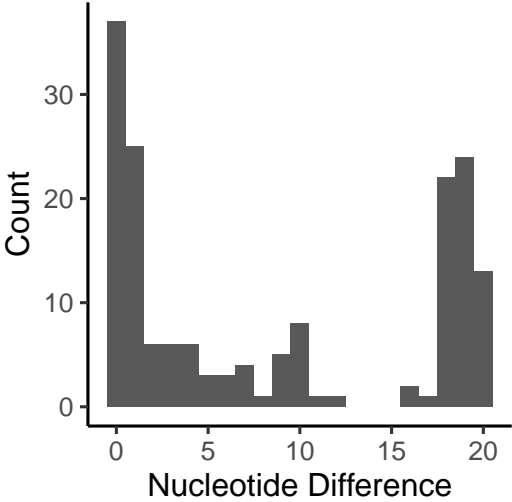
IGHV5-51*07

17 sequences assigned
3 (17.6%) exact matches, in which:
3 unique CDR3
2 unique J



IGHV6-1*01_02

174 sequences assigned
37 (21.3%) exact matches, in which:
36 unique CDR3
4 unique J





Warning – no inferred sequences found.