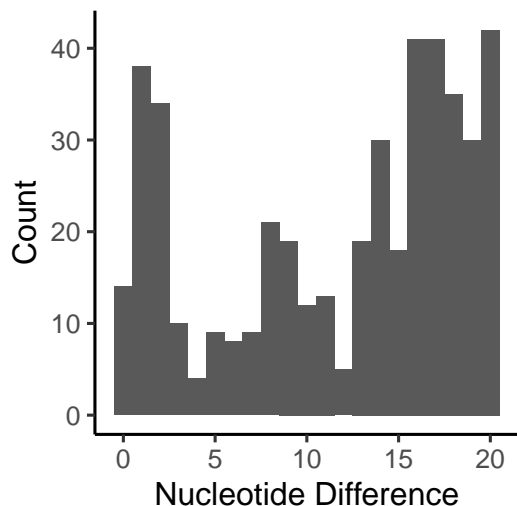


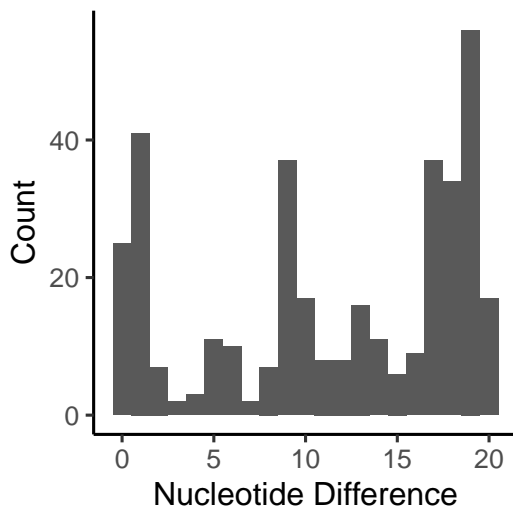
IGHV1-2*02

531 sequences assigned
14 (2.6%) exact matches, in which:
9 unique CDR3
4 unique J



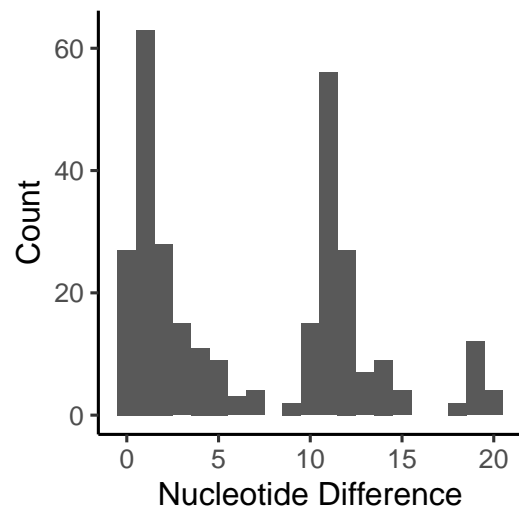
IGHV1-8*01

372 sequences assigned
25 (6.7%) exact matches, in which:
17 unique CDR3
3 unique J



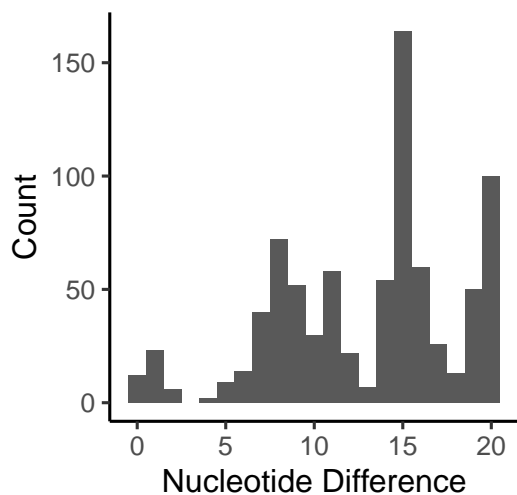
IGHV1-46*01

341 sequences assigned
27 (7.9%) exact matches, in which:
13 unique CDR3
3 unique J



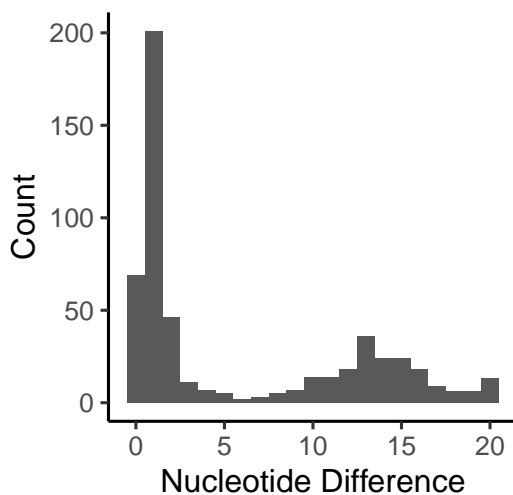
IGHV1-3*01

984 sequences assigned
12 (1.2%) exact matches, in which:
5 unique CDR3
3 unique J



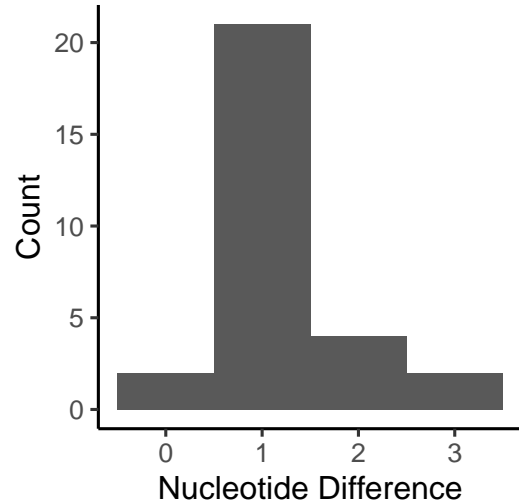
IGHV1-18*01

581 sequences assigned
69 (11.9%) exact matches, in which:
32 unique CDR3
4 unique J



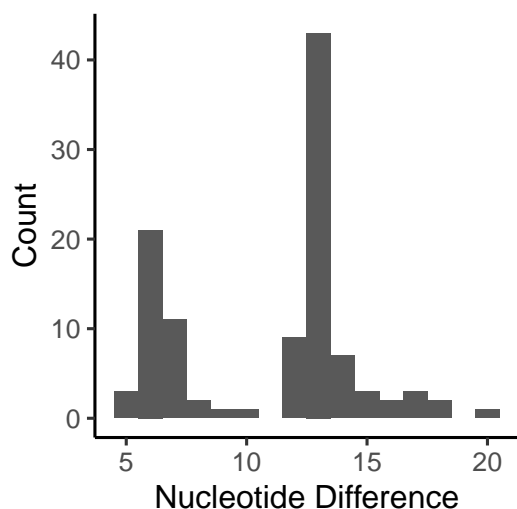
IGHV1-58*01

29 sequences assigned
2 (6.9%) exact matches, in which:
1 unique CDR3
1 unique J



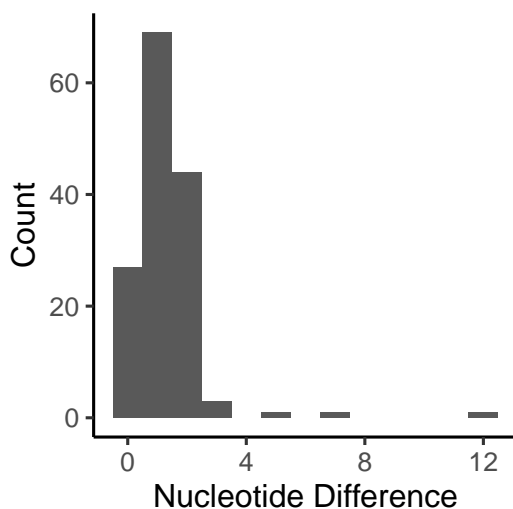
IGHV1-3*04

111 sequences assigned
No exact matches.



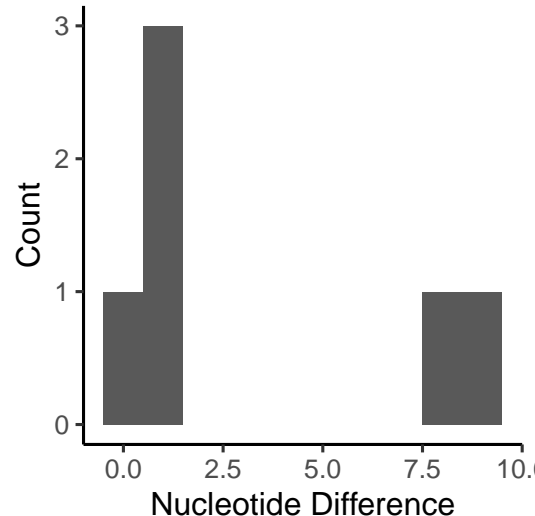
IGHV1-24*01

146 sequences assigned
27 (18.5%) exact matches, in which:
13 unique CDR3
3 unique J



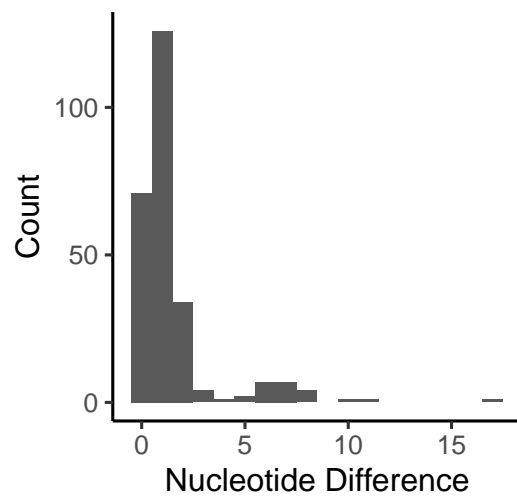
IGHV1-69-2*01

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



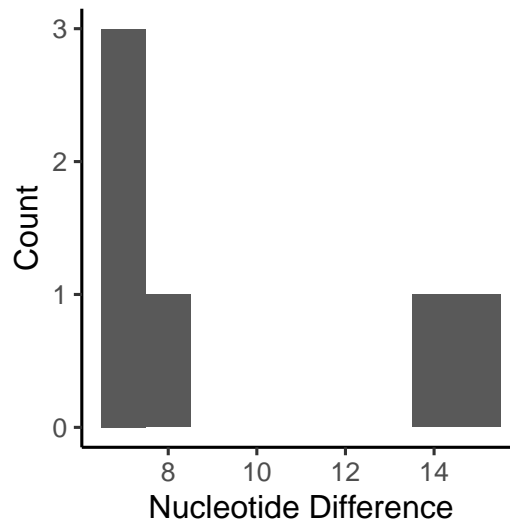
IGHV1-69*06

271 sequences assigned
71 (26.2%) exact matches, in which:
44 unique CDR3
3 unique J



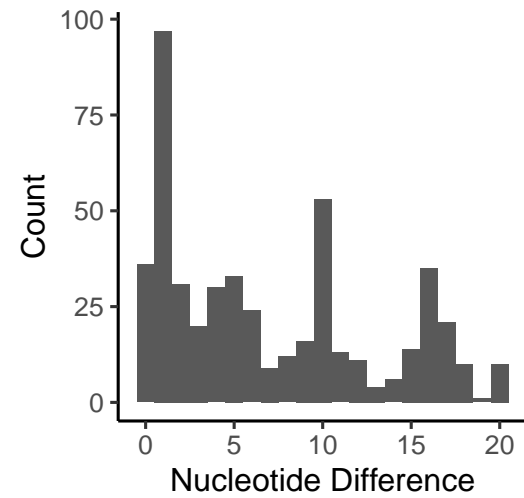
IGHV2-26*01

6 sequences assigned
No exact matches.



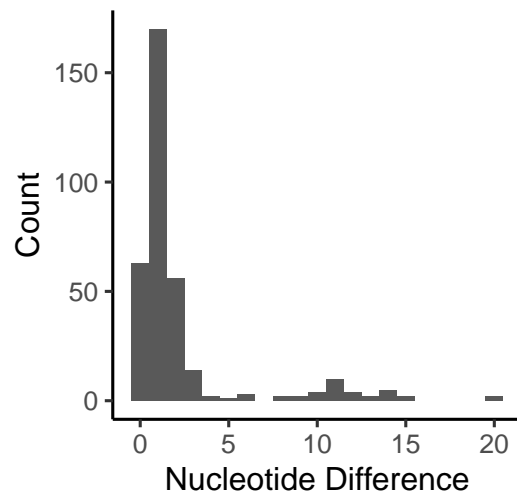
IGHV3-9*01

507 sequences assigned
36 (7.1%) exact matches, in which:
26 unique CDR3
3 unique J



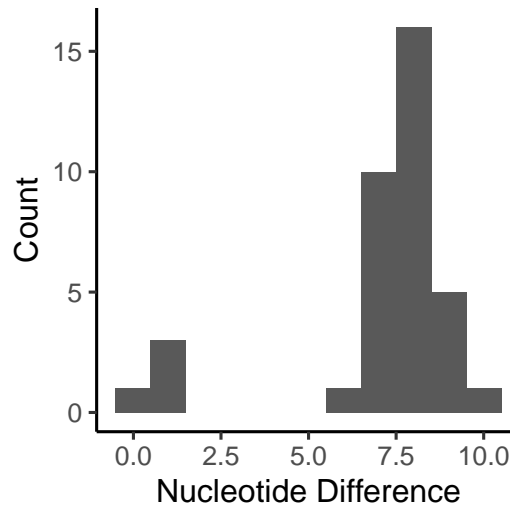
IGHV2-5*01

379 sequences assigned
63 (16.6%) exact matches, in which:
35 unique CDR3
3 unique J



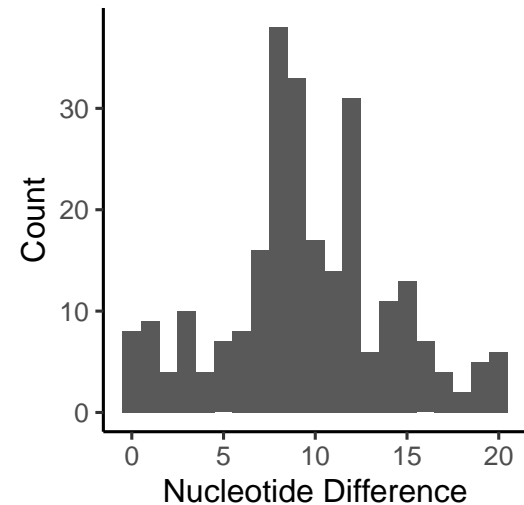
IGHV2-70*01

37 sequences assigned
1 (2.7%) exact matches, in which:
1 unique CDR3
1 unique J



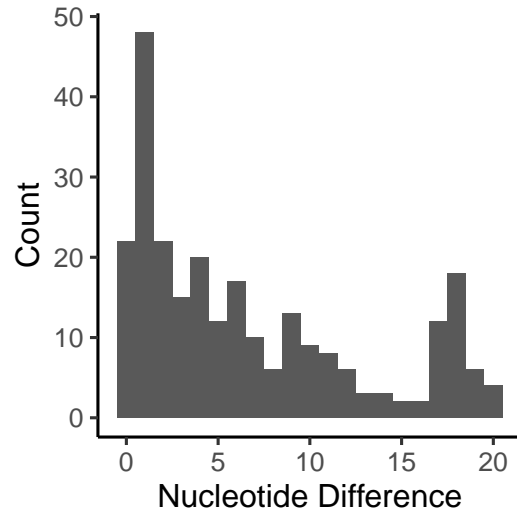
IGHV3-11*01

339 sequences assigned
8 (2.4%) exact matches, in which:
7 unique CDR3
1 unique J



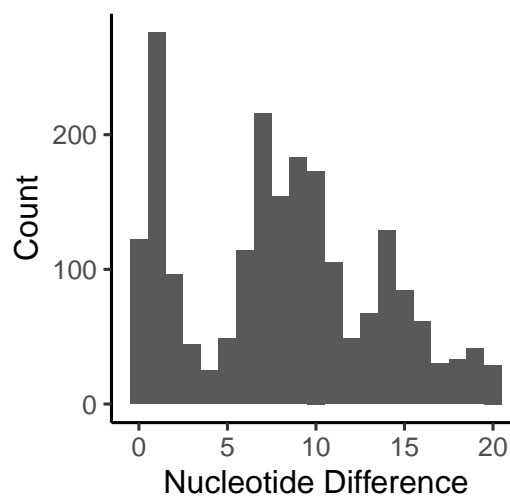
IGHV2-5*02

310 sequences assigned
22 (7.1%) exact matches, in which:
16 unique CDR3
4 unique J



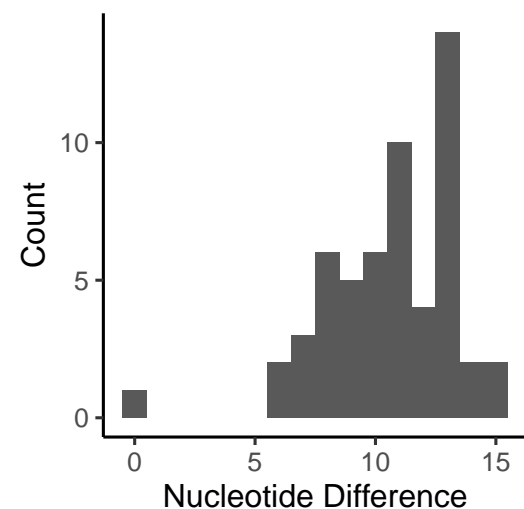
IGHV3-7*01

2255 sequences assigned
122 (5.4%) exact matches, in which:
76 unique CDR3
5 unique J



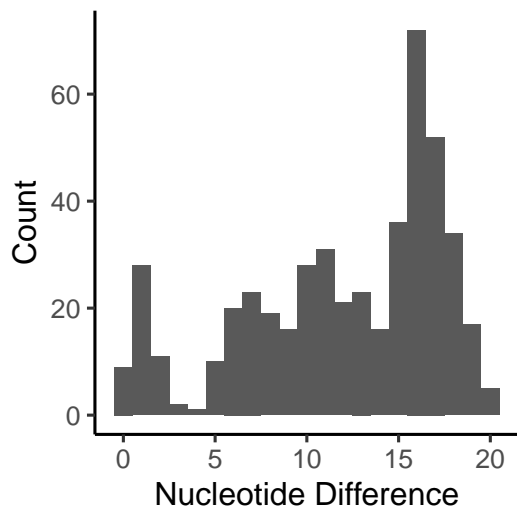
IGHV3-13*01

55 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



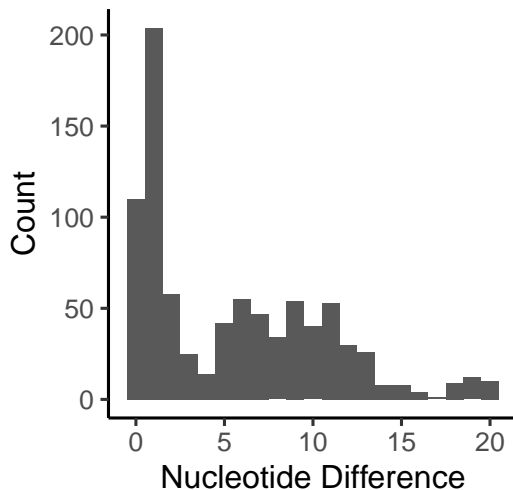
IGHV3-15*01

523 sequences assigned
9 (1.7%) exact matches, in which:
9 unique CDR3
2 unique J



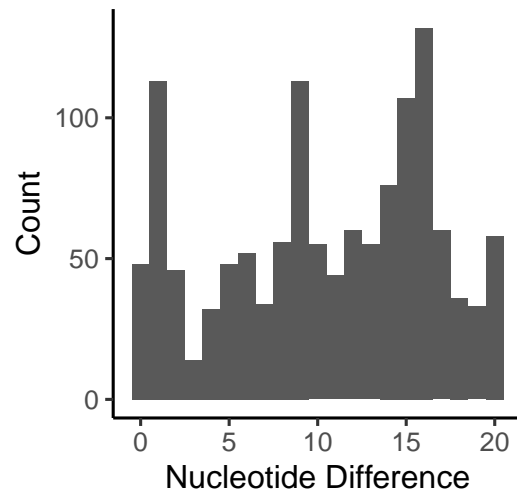
IGHV3-21*01

1043 sequences assigned
110 (10.5%) exact matches, in which:
68 unique CDR3
4 unique J



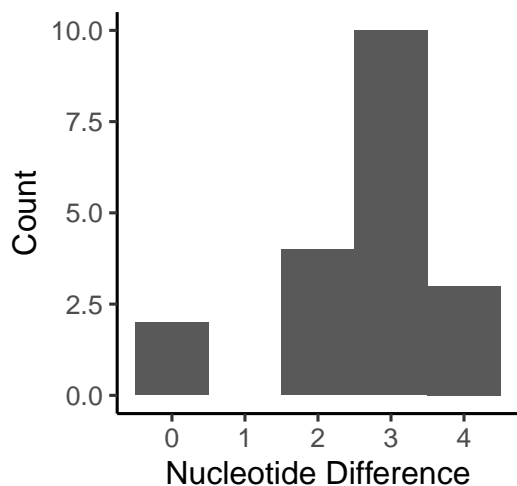
IGHV3-33*01

1503 sequences assigned
48 (3.2%) exact matches, in which:
29 unique CDR3
3 unique J



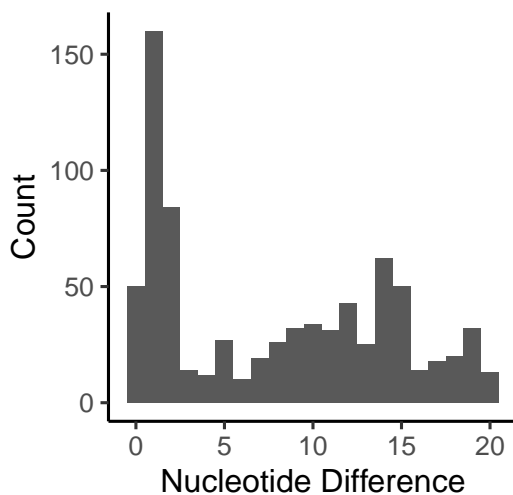
IGHV3-20*01

19 sequences assigned
2 (10.5%) exact matches, in which:
2 unique CDR3
2 unique J



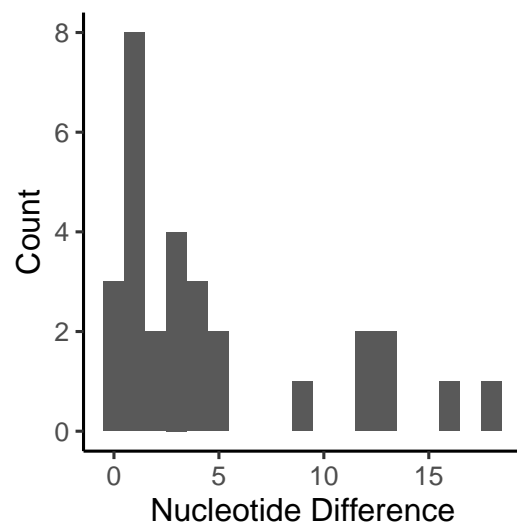
IGHV3-23*04

927 sequences assigned
50 (5.4%) exact matches, in which:
26 unique CDR3
4 unique J



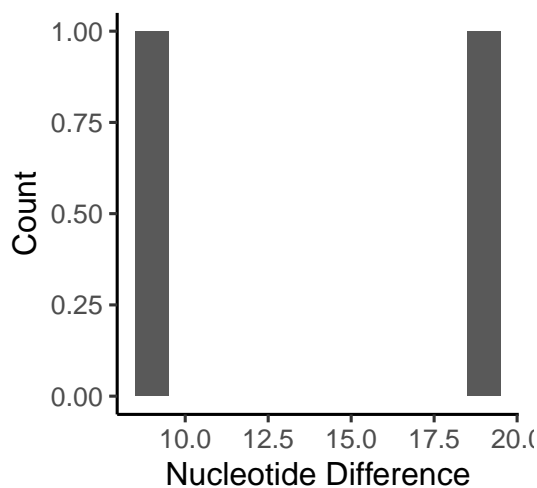
IGHV3-43*01

29 sequences assigned
3 (10.3%) exact matches, in which:
3 unique CDR3
1 unique J



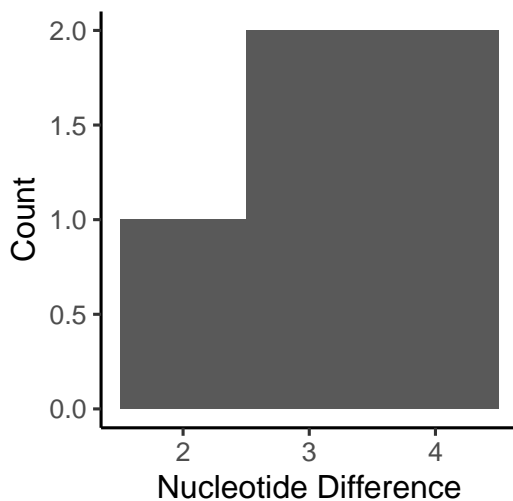
IGHV3-20*04

2 sequences assigned
No exact matches.



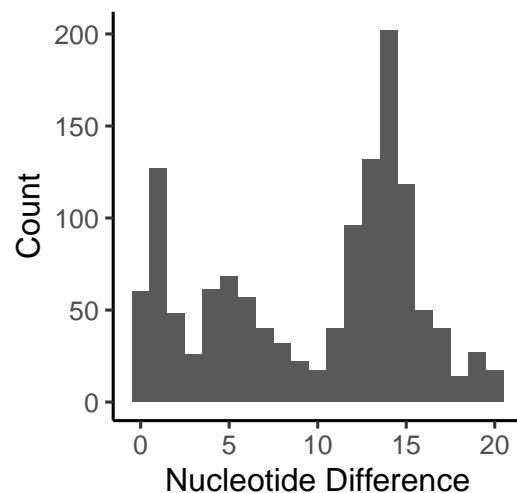
IGHV3-30-3*03

5 sequences assigned
No exact matches.



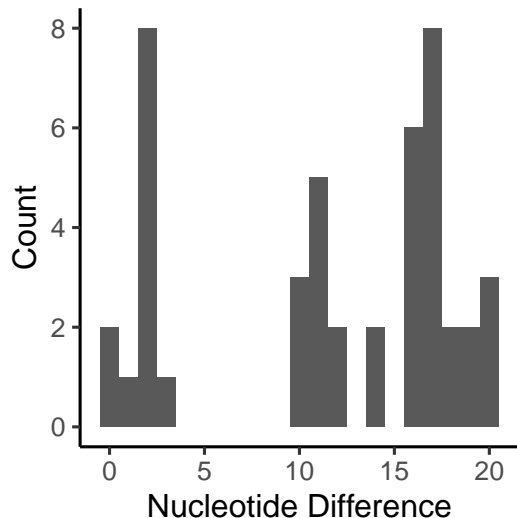
IGHV3-48*02

1414 sequences assigned
60 (4.2%) exact matches, in which:
28 unique CDR3
3 unique J



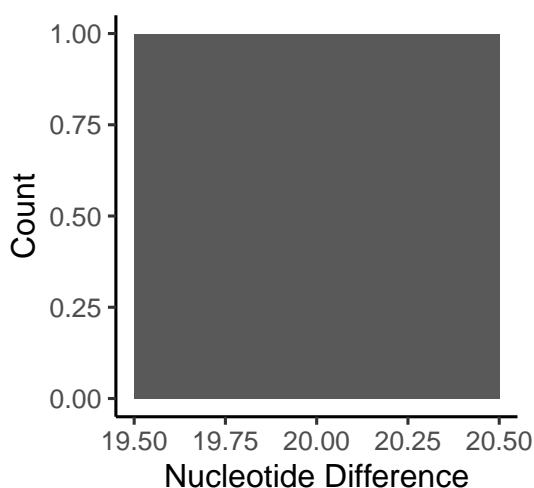
IGHV3-49*05

54 sequences assigned
2 (3.7%) exact matches, in which:
1 unique CDR3
1 unique J



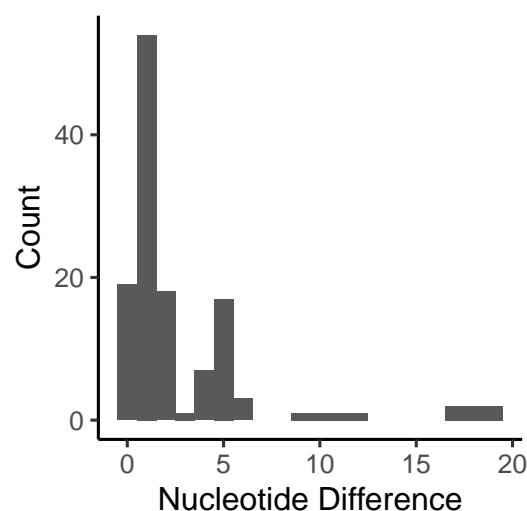
IGHV3-66*04

1 sequences assigned
No exact matches.



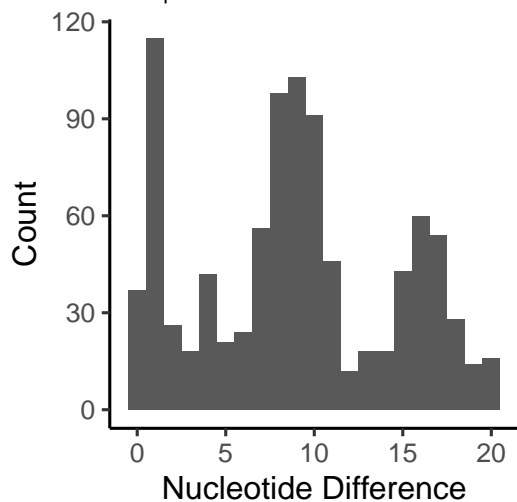
IGHV3-73*02

129 sequences assigned
19 (14.7%) exact matches, in which:
13 unique CDR3
2 unique J



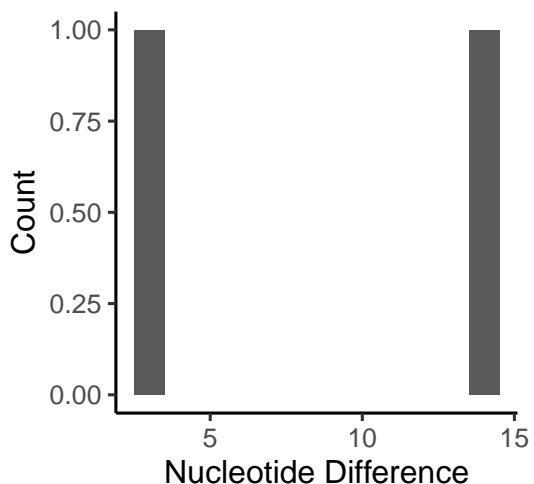
IGHV3-53*01

1000 sequences assigned
37 (3.7%) exact matches, in which:
24 unique CDR3
5 unique J



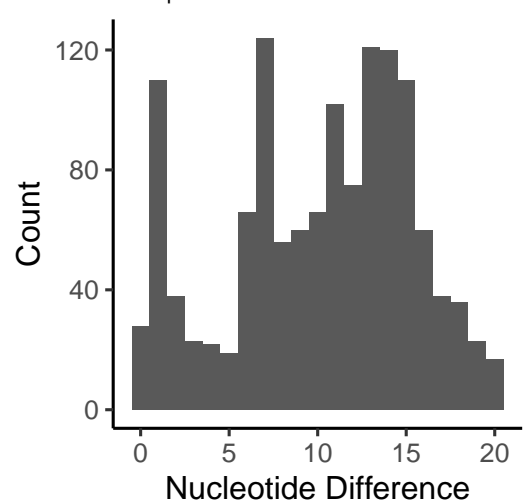
IGHV3-69-1*01

2 sequences assigned
No exact matches.



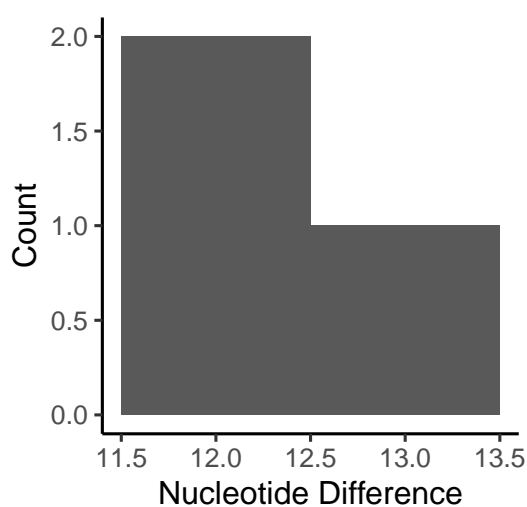
IGHV3-74*01

1415 sequences assigned
28 (2%) exact matches, in which:
17 unique CDR3
3 unique J



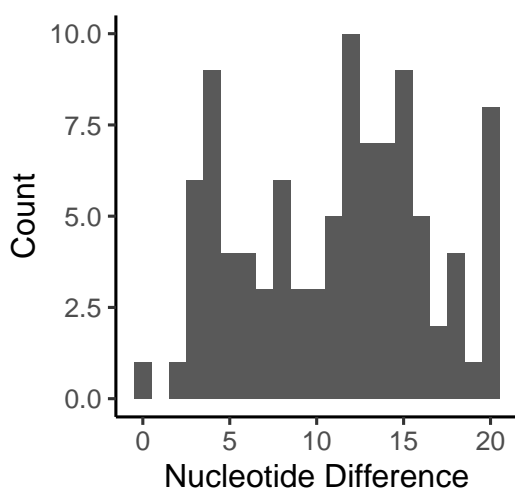
IGHV3-64*02

3 sequences assigned
No exact matches.



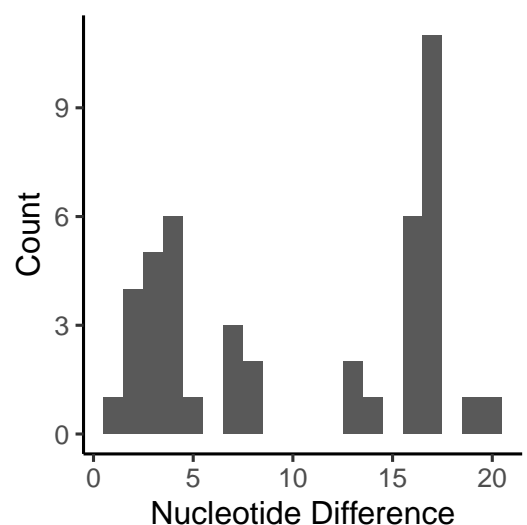
IGHV3-72*01

111 sequences assigned
1 (0.9%) exact matches, in which:
1 unique CDR3
1 unique J



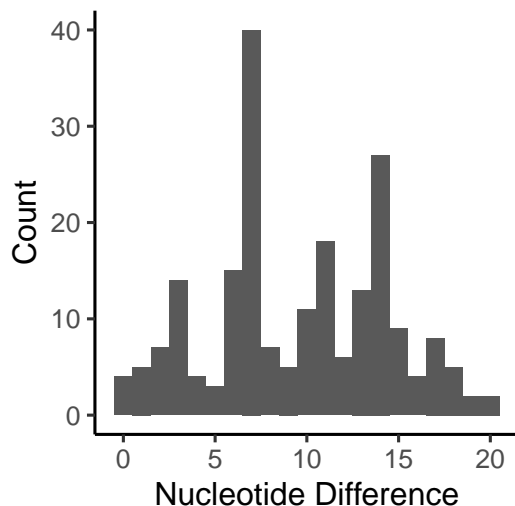
IGHV4-4*02

49 sequences assigned
No exact matches.



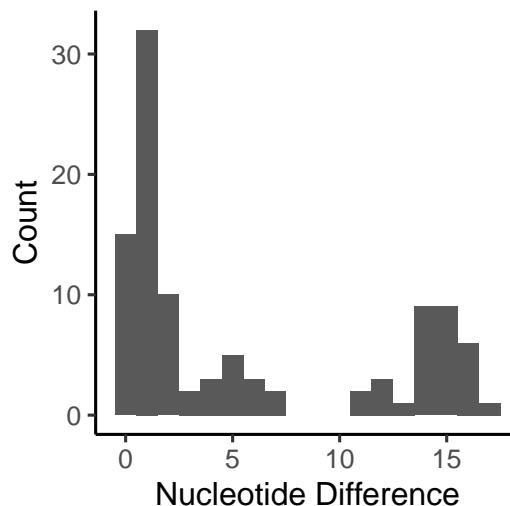
IGHV4-4*07

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



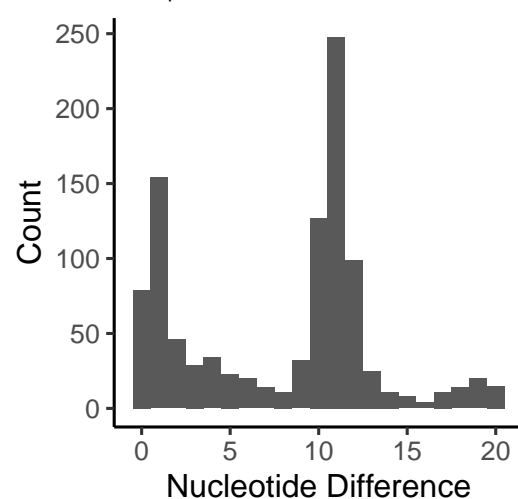
IGHV4-31*03

103 sequences assigned
15 (14.6%) exact matches, in which:
6 unique CDR3
2 unique J



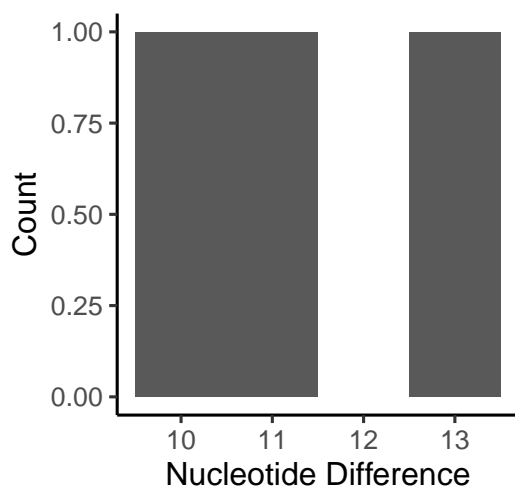
IGHV4-59*01

1076 sequences assigned
79 (7.3%) exact matches, in which:
36 unique CDR3
4 unique J



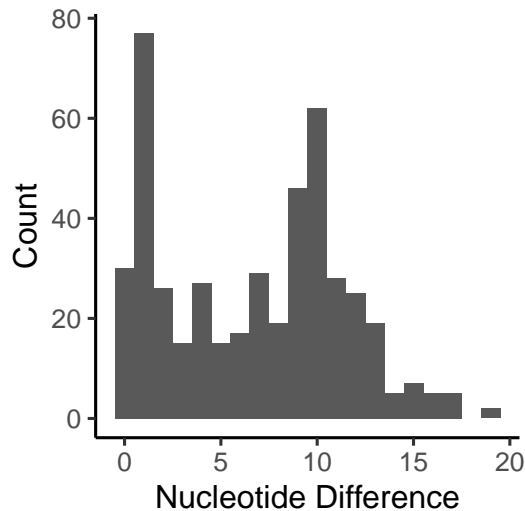
IGHV4-28*01

3 sequences assigned
No exact matches.



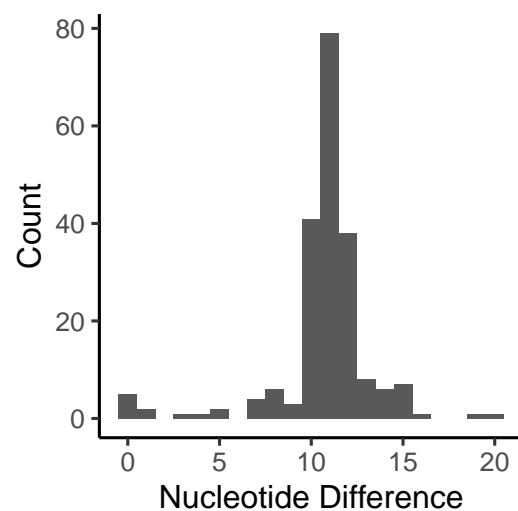
IGHV4-34*01

466 sequences assigned
30 (6.4%) exact matches, in which:
21 unique CDR3
3 unique J



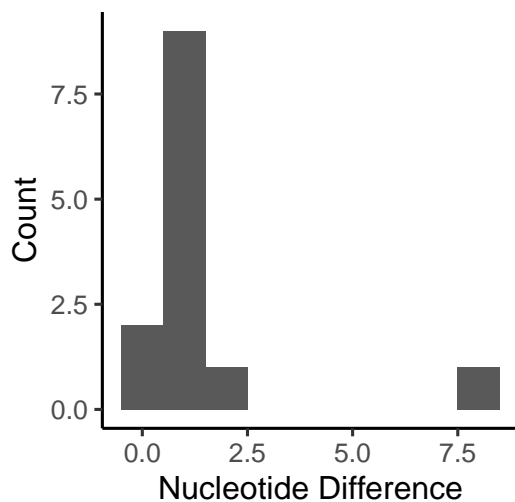
IGHV4-61*01

220 sequences assigned
5 (2.3%) exact matches, in which:
3 unique CDR3
2 unique J



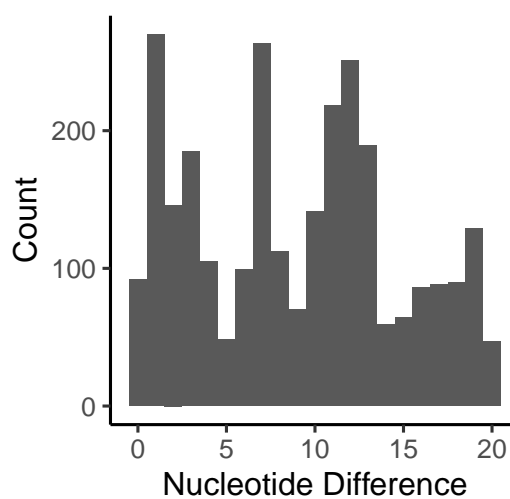
IGHV4-30-2*01

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



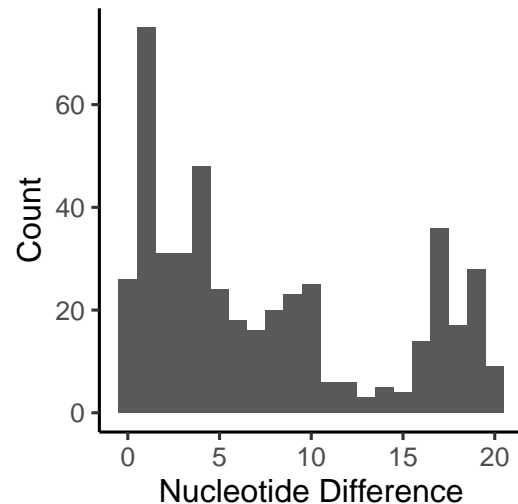
IGHV4-39*01

2837 sequences assigned
92 (3.2%) exact matches, in which:
55 unique CDR3
5 unique J



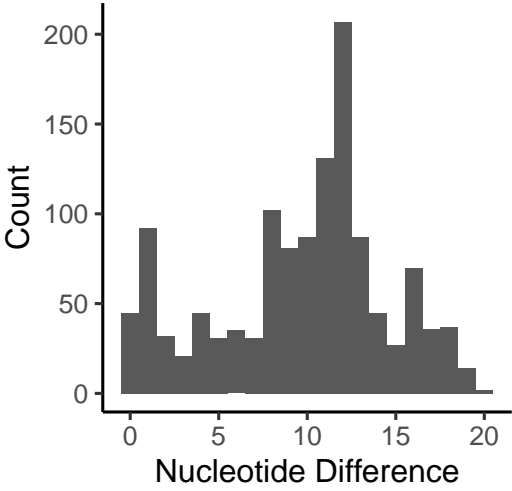
IGHV5-51*01

520 sequences assigned
26 (5%) exact matches, in which:
13 unique CDR3
5 unique J



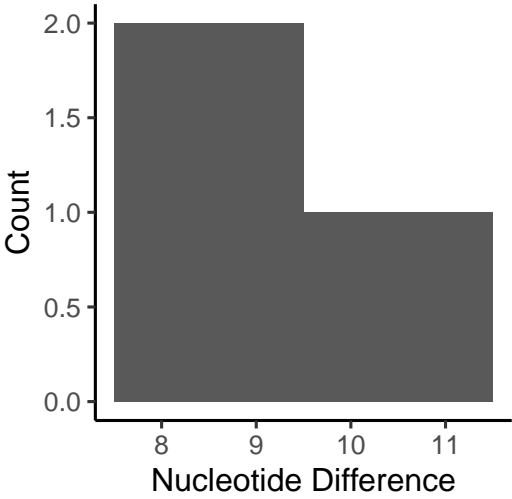
IGHV6-1*01

1258 sequences assigned
45 (3.6%) exact matches, in which:
20 unique CDR3
3 unique J



IGHV7-4-1*01

6 sequences assigned
No exact matches.





Warning – no inferred sequences found.