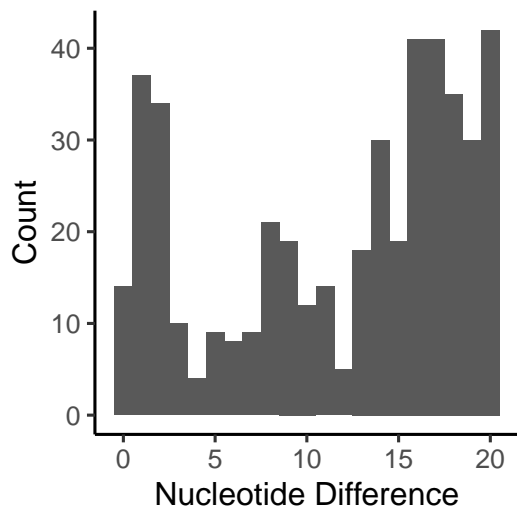


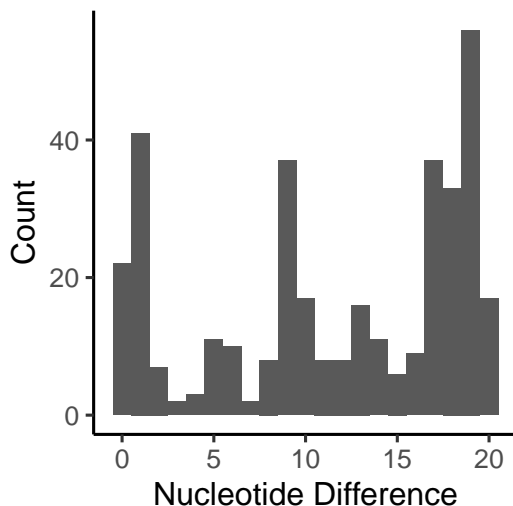
IGHV1-2*02

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



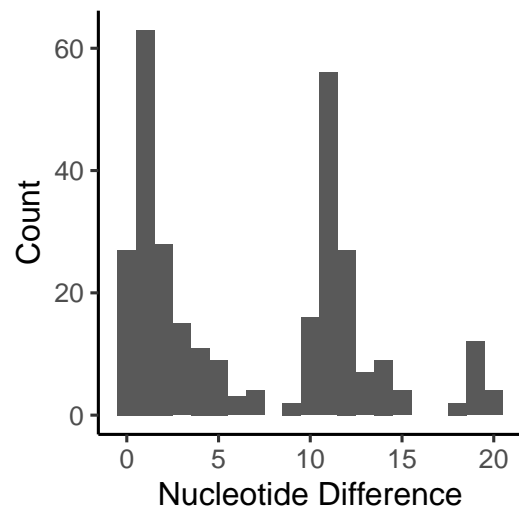
IGHV1-8*01

369 sequences assigned
22 (6%) exact matches, in which:
17 unique CDR3
3 unique J



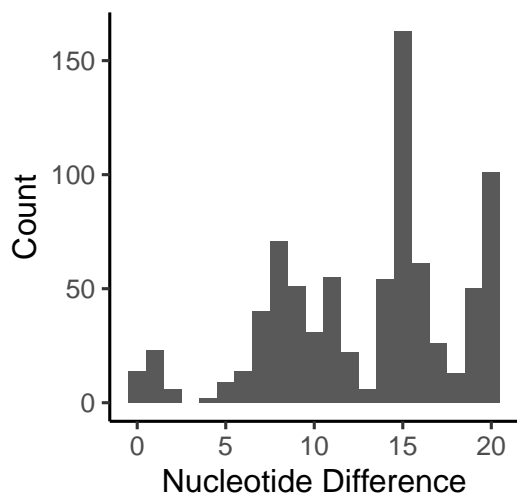
IGHV1-46*01

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



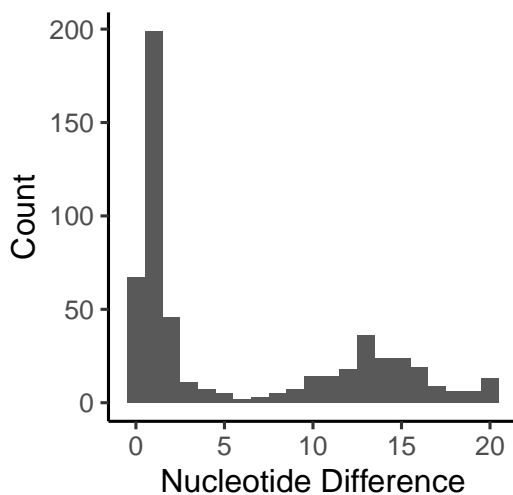
IGHV1-3*01

984 sequences assigned
14 (1.4%) exact matches, in which:
6 unique CDR3
4 unique J



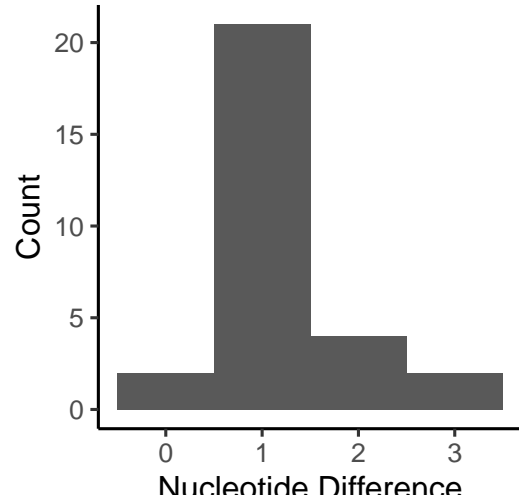
IGHV1-18*01

578 sequences assigned
67 (11.6%) exact matches, in which:
32 unique CDR3
4 unique J



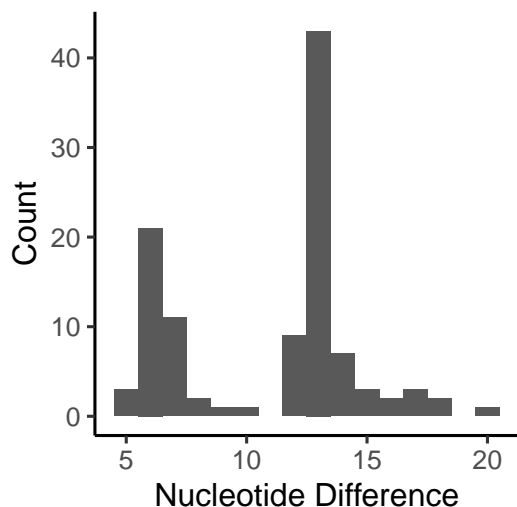
IGHV1-58*01

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



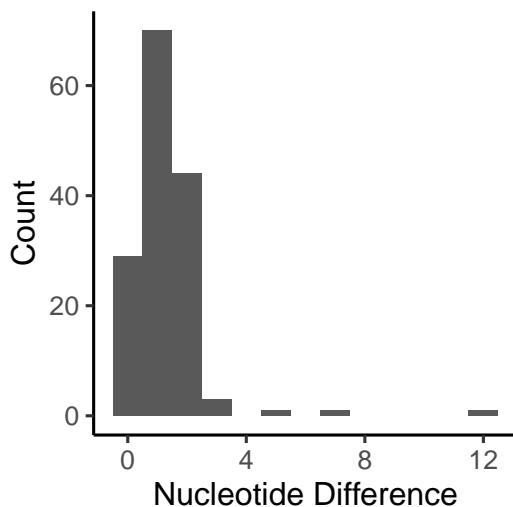
IGHV1-3*04

111 sequences assigned
No exact matches.



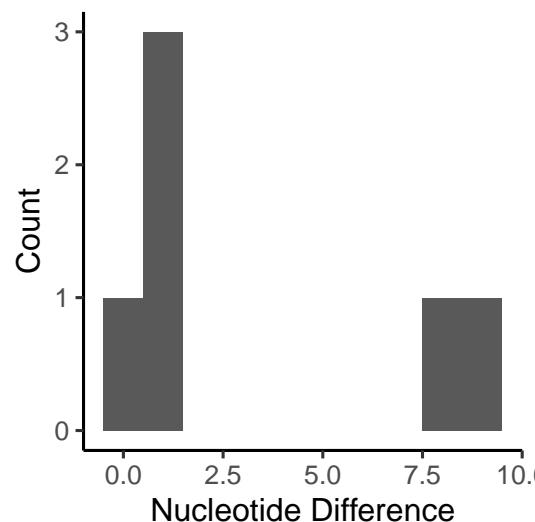
IGHV1-24*01

149 sequences assigned
29 (19.5%) exact matches, in which:
13 unique CDR3
3 unique J



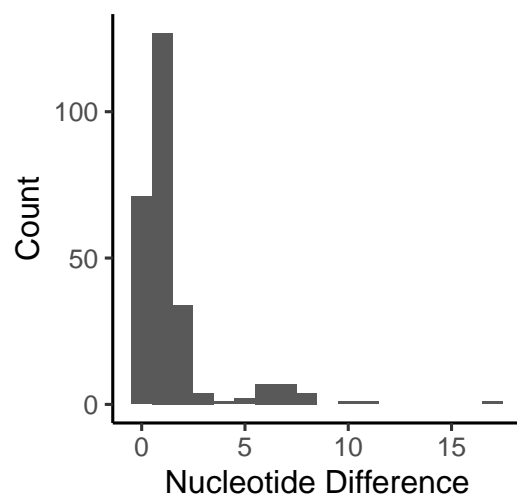
IGHV1-69-2*01

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



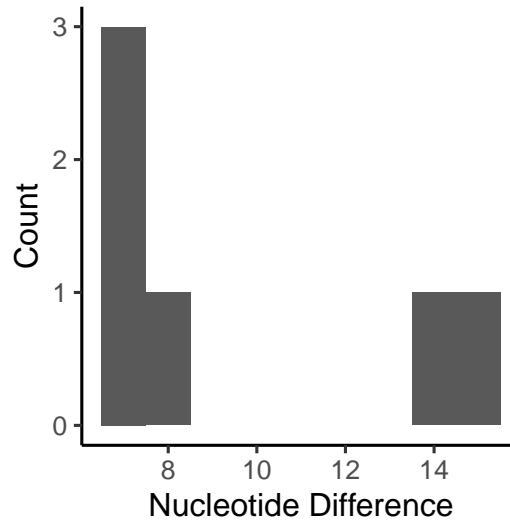
IGHV1-69*06

272 sequences assigned
71 (26.1%) exact matches, in which:
44 unique CDR3
3 unique J



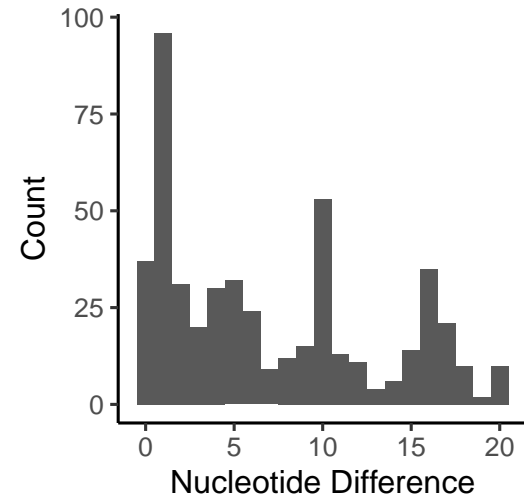
IGHV2-26*01

6 sequences assigned
No exact matches.



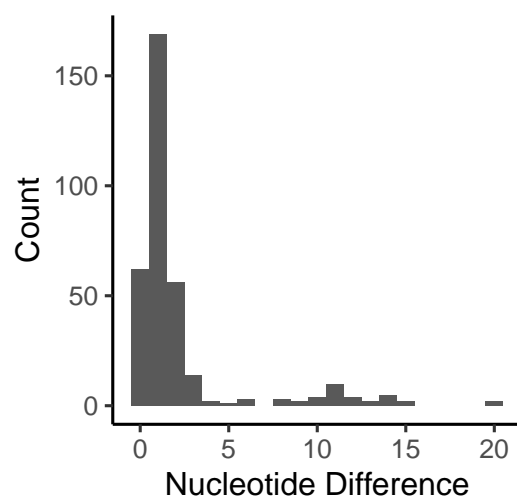
IGHV3-9*01

507 sequences assigned
37 (7.3%) exact matches, in which:
27 unique CDR3
3 unique J



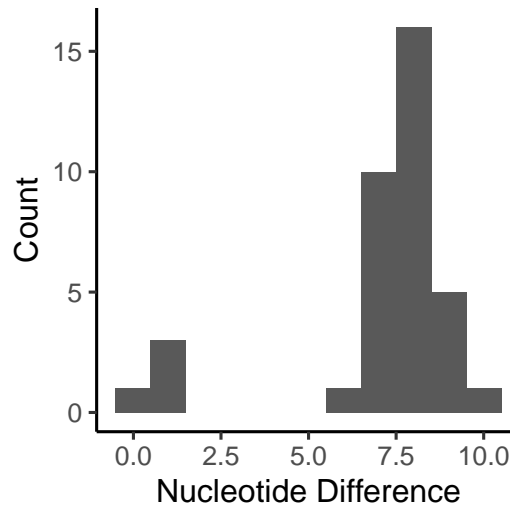
IGHV2-5*01

379 sequences assigned
62 (16.4%) exact matches, in which:
35 unique CDR3
3 unique J



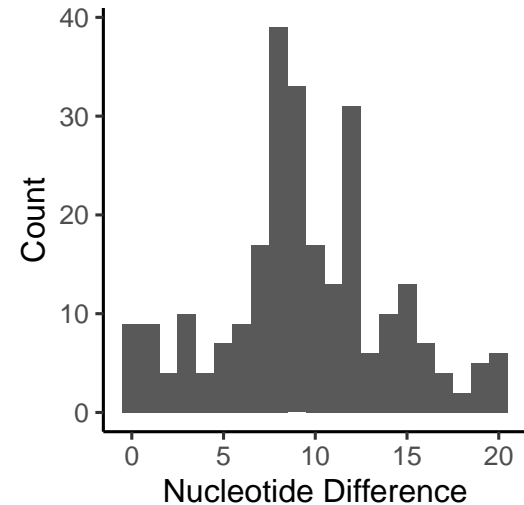
IGHV2-70*01

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



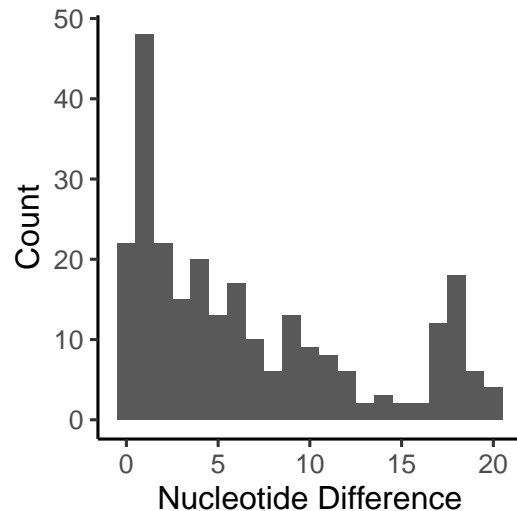
IGHV3-11*01

341 sequences assigned
9 (2.6%) exact matches, in which:
8 unique CDR3
2 unique J



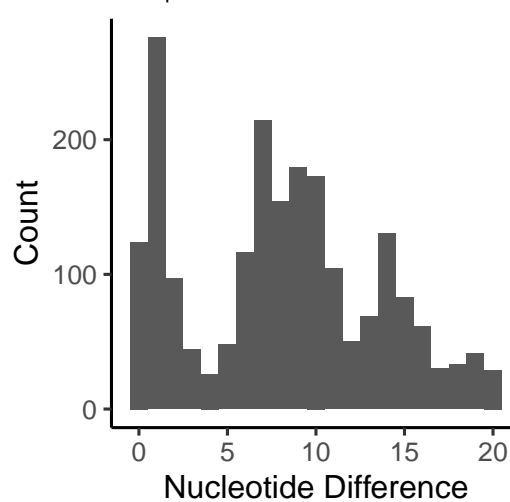
IGHV2-5*02

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



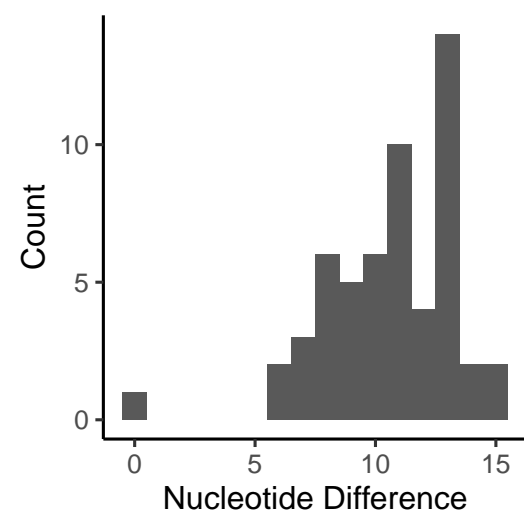
IGHV3-7*01

2251 sequences assigned
124 (5.5%) exact matches, in which:
77 unique CDR3
5 unique J



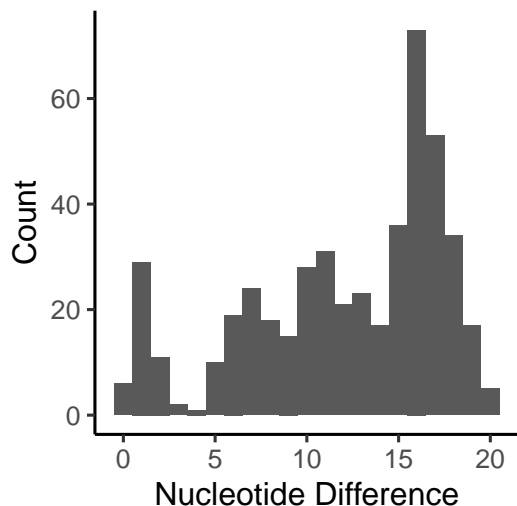
IGHV3-13*01

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



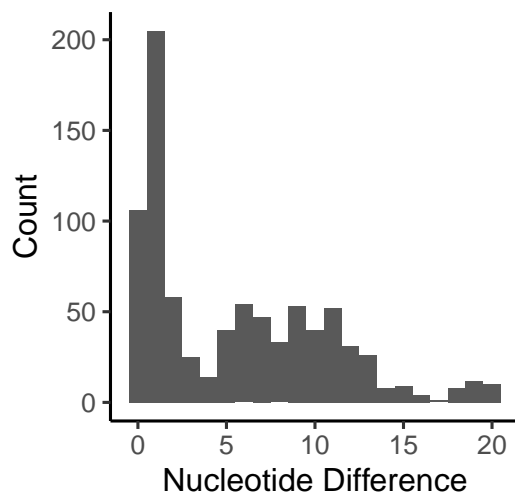
IGHV3-15*01

520 sequences assigned
6 (1.2%) exact matches, in which:
6 unique CDR3
2 unique J



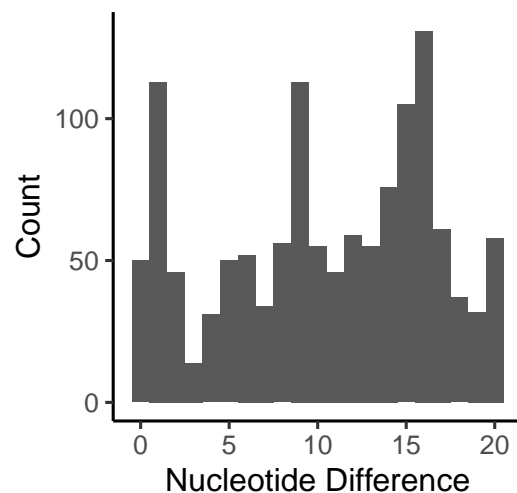
IGHV3-21*01

1034 sequences assigned
106 (10.3%) exact matches, in which:
67 unique CDR3
4 unique J



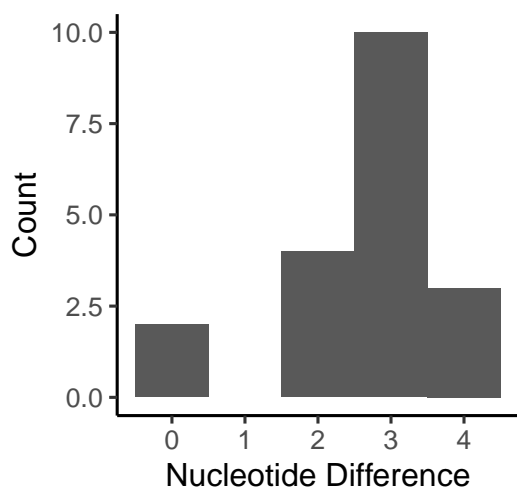
IGHV3-33*01

1503 sequences assigned
50 (3.3%) exact matches, in which:
29 unique CDR3
3 unique J



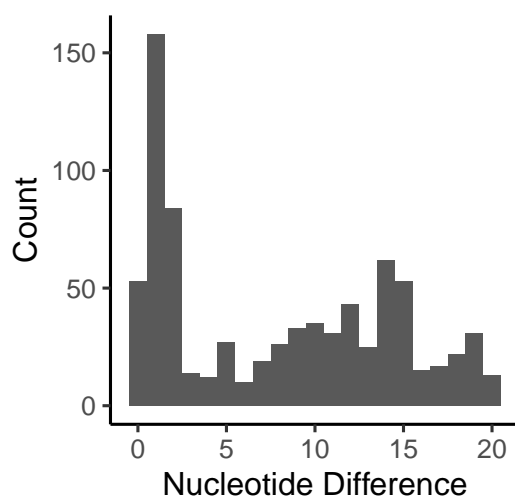
IGHV3-20*01

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



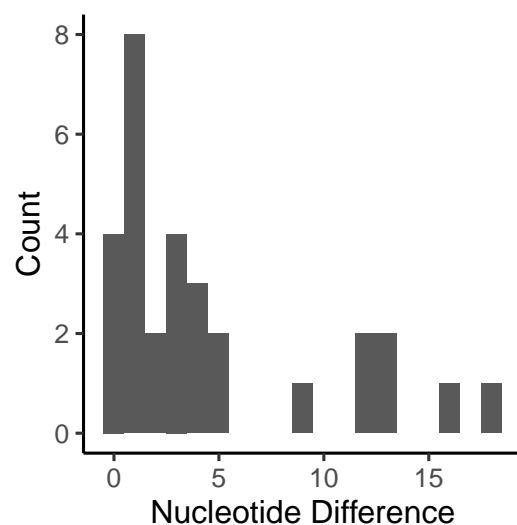
IGHV3-23*04

934 sequences assigned
53 (5.7%) exact matches, in which:
27 unique CDR3
4 unique J



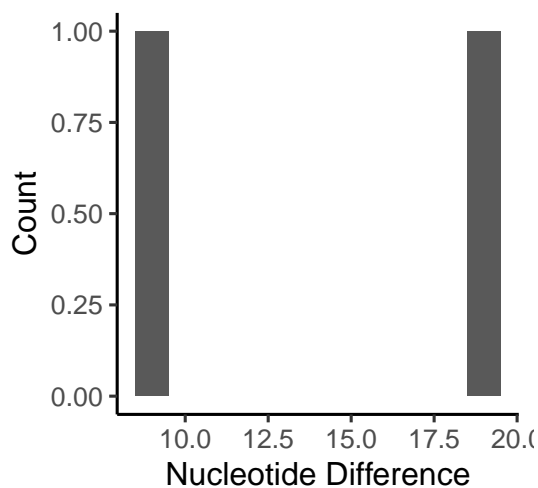
IGHV3-43*01

30 sequences assigned
4 (13.3%) exact matches, in which:
4 unique CDR3
1 unique J



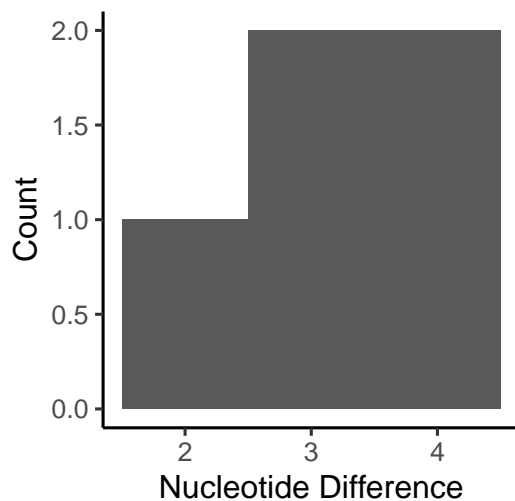
IGHV3-20*04

2 sequences assigned
No exact matches.



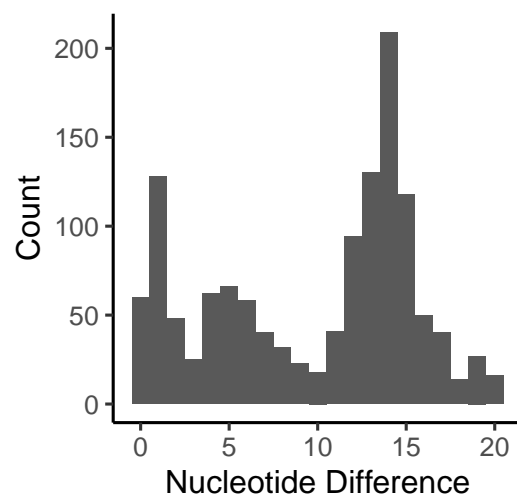
IGHV3-30-3*03

5 sequences assigned
No exact matches.



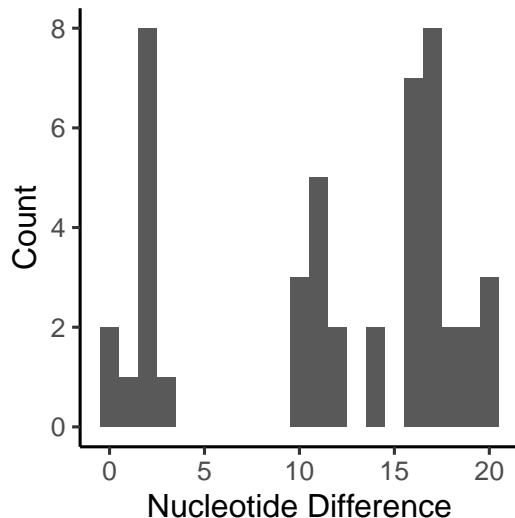
IGHV3-48*02

1415 sequences assigned
60 (4.2%) exact matches, in which:
28 unique CDR3
3 unique J



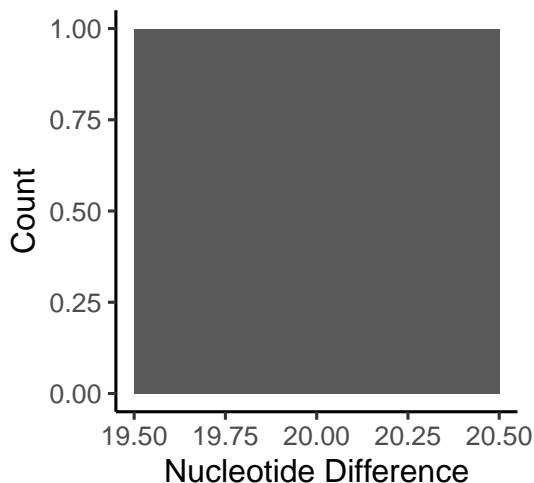
IGHV3-49*05

55 sequences assigned
2 (3.6%) exact matches, in which:
1 unique CDR3
1 unique J



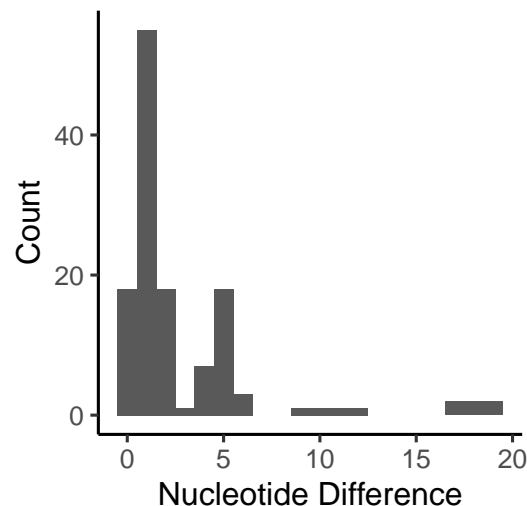
IGHV3-66*04

1 sequences assigned
No exact matches.



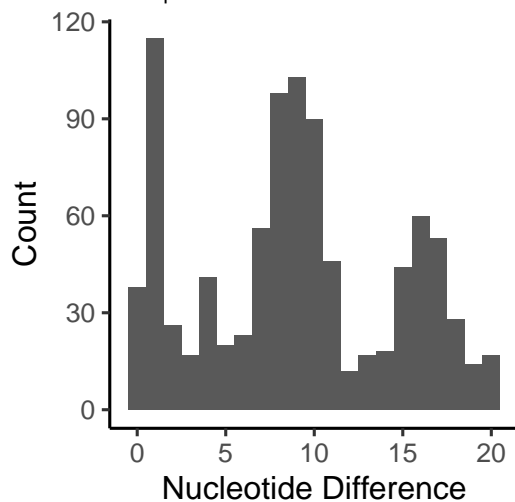
IGHV3-73*02

130 sequences assigned
18 (13.8%) exact matches, in which:
13 unique CDR3
2 unique J



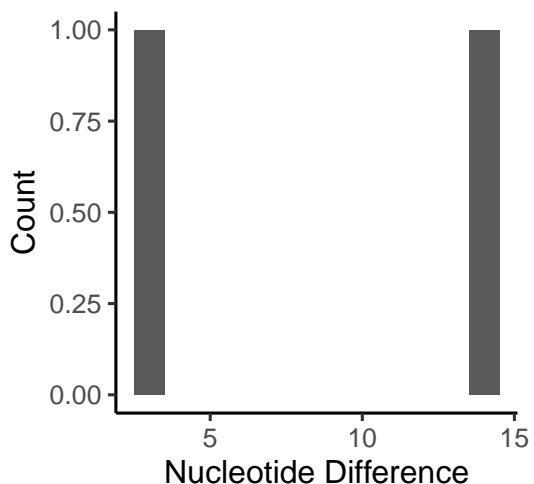
IGHV3-53*01

996 sequences assigned
38 (3.8%) exact matches, in which:
25 unique CDR3
5 unique J



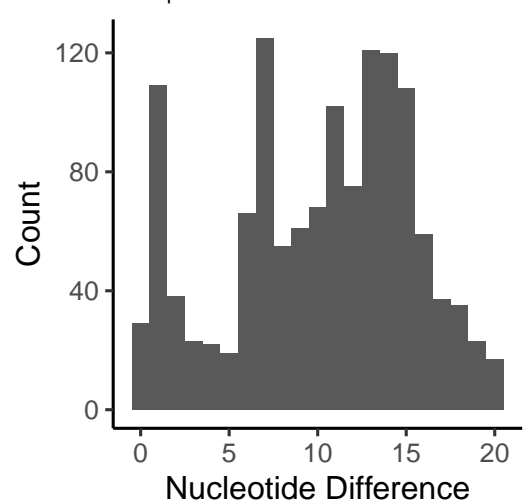
IGHV3-69-1*01

2 sequences assigned
No exact matches.



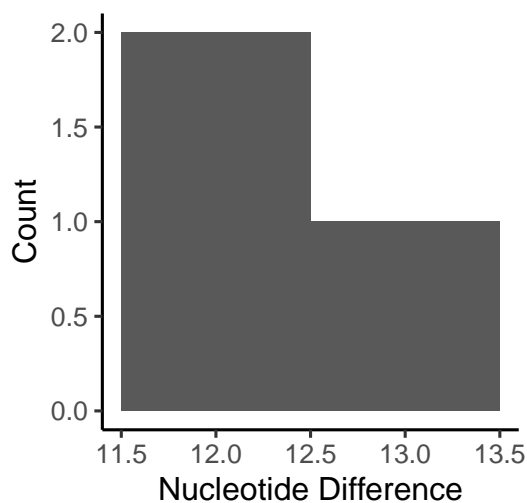
IGHV3-74*01

1415 sequences assigned
29 (2%) exact matches, in which:
17 unique CDR3
3 unique J



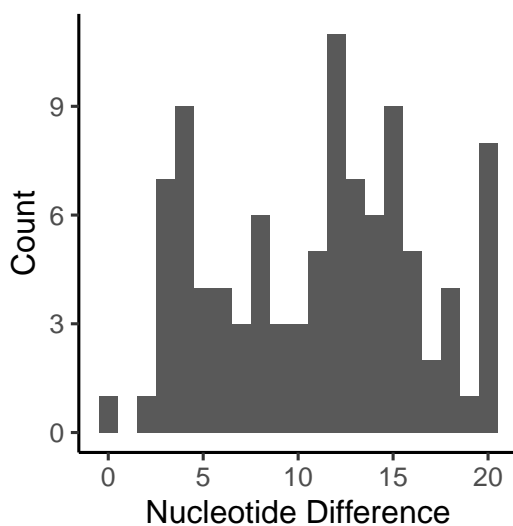
IGHV3-64*02

3 sequences assigned
No exact matches.



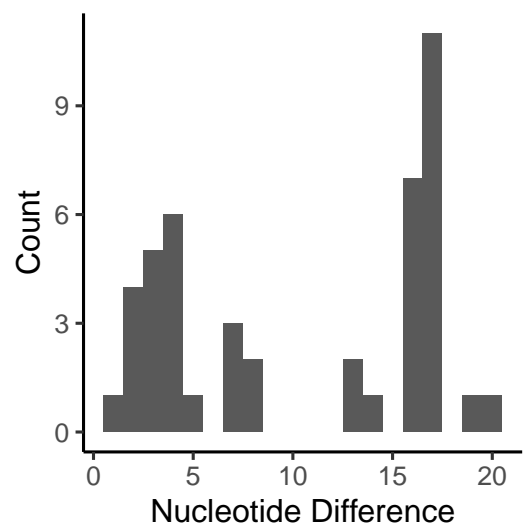
IGHV3-72*01

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



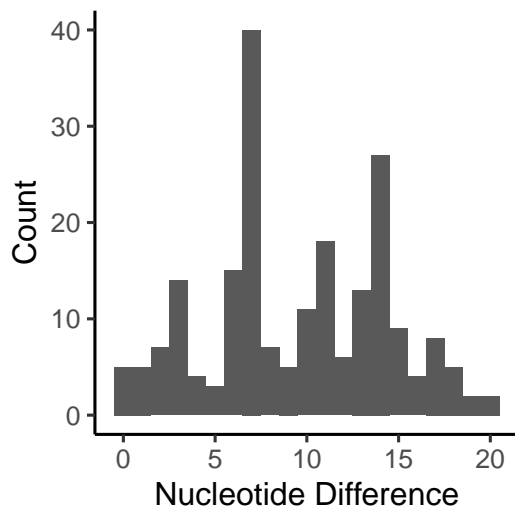
IGHV4-4*02

50 sequences assigned
No exact matches.



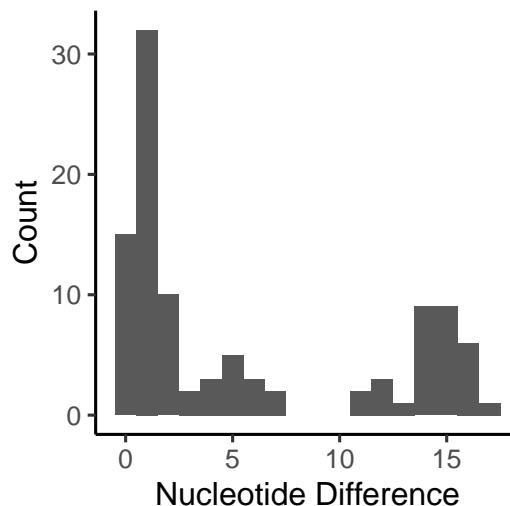
IGHV4-4*07

223 sequences assigned
5 (2.2%) exact matches, in which:
4 unique CDR3
1 unique J



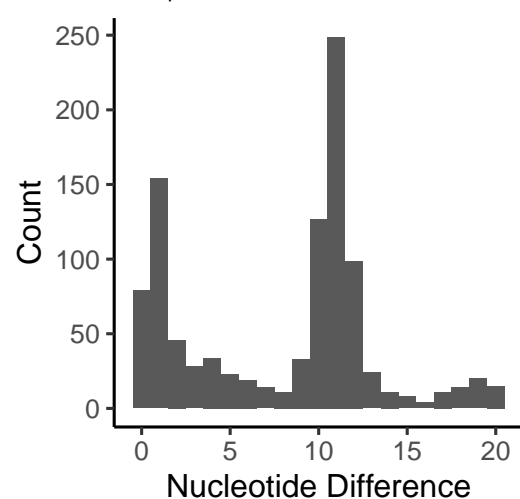
IGHV4-31*03

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



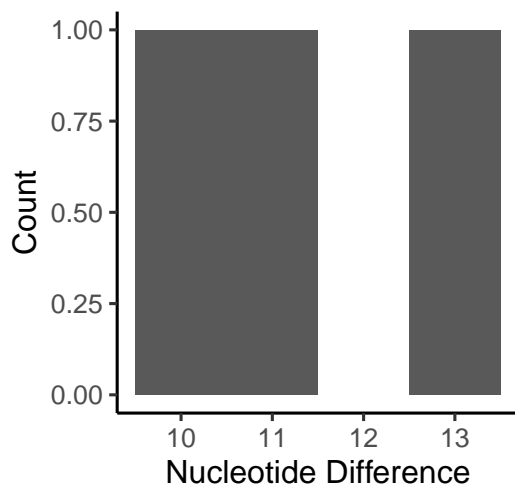
IGHV4-59*01

1075 sequences assigned
79 (7.3%) exact matches, in which:
36 unique CDR3
4 unique J



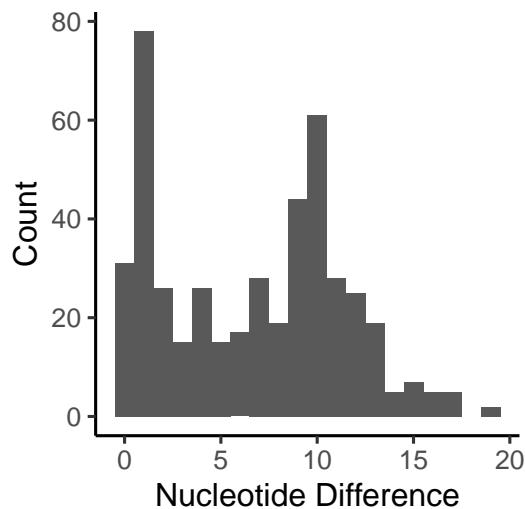
IGHV4-28*01

3 sequences assigned
No exact matches.



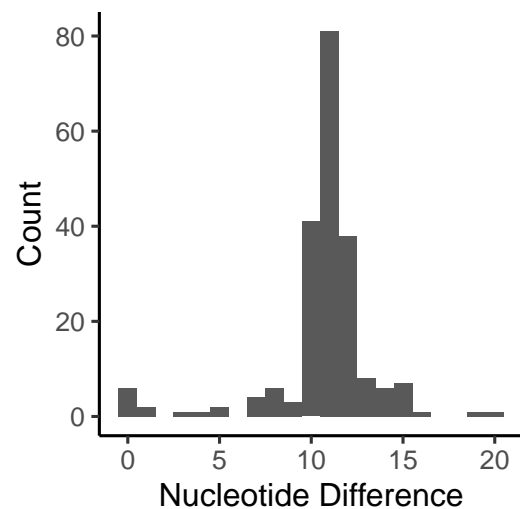
IGHV4-34*01

463 sequences assigned
31 (6.7%) exact matches, in which:
21 unique CDR3
3 unique J



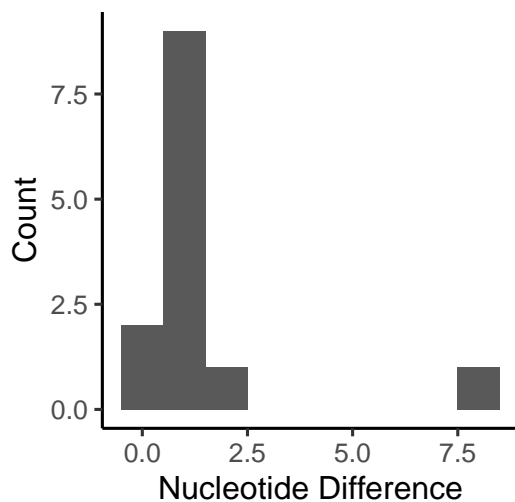
IGHV4-61*01

223 sequences assigned
6 (2.7%) exact matches, in which:
3 unique CDR3
2 unique J



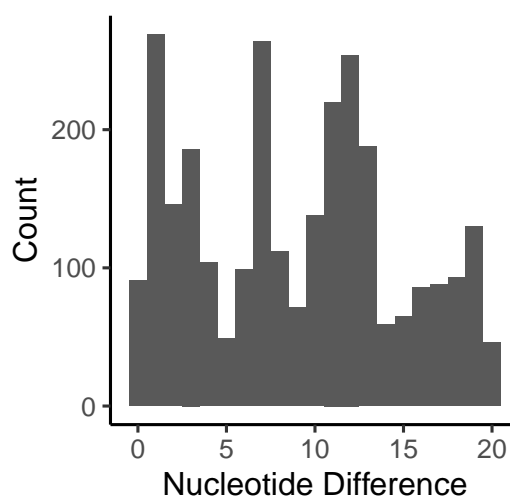
IGHV4-30-2*01

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



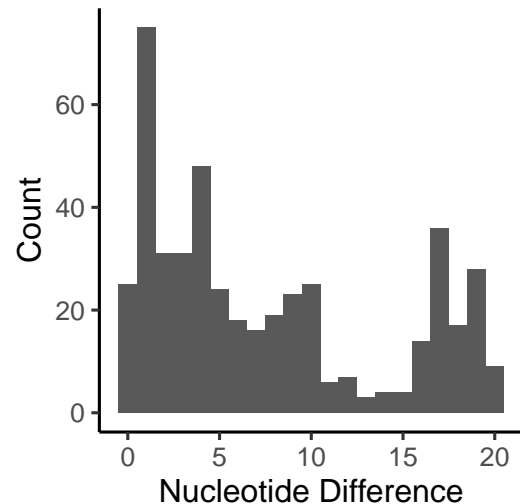
IGHV4-39*01

2843 sequences assigned
91 (3.2%) exact matches, in which:
56 unique CDR3
5 unique J



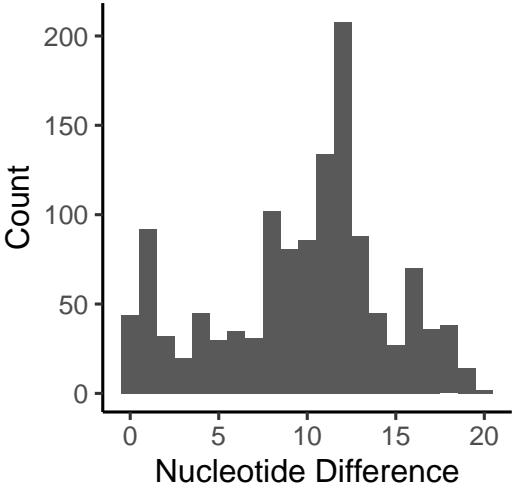
IGHV5-51*01

518 sequences assigned
25 (4.8%) exact matches, in which:
13 unique CDR3
5 unique J



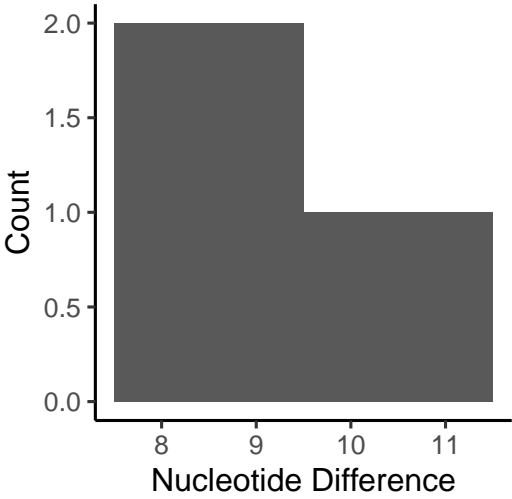
IGHV6-1*01

1260 sequences assigned
44 (3.5%) 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.