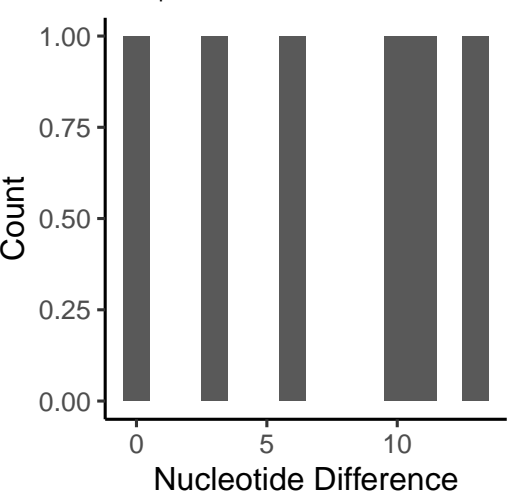


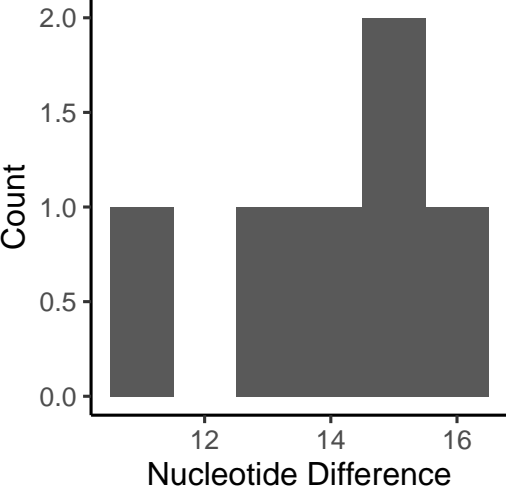
IGHV1-2*02

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



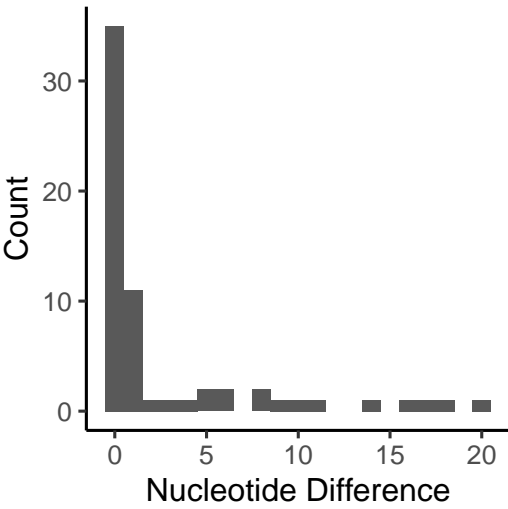
IGHV1-8*02

6 sequences assigned
No exact matches.



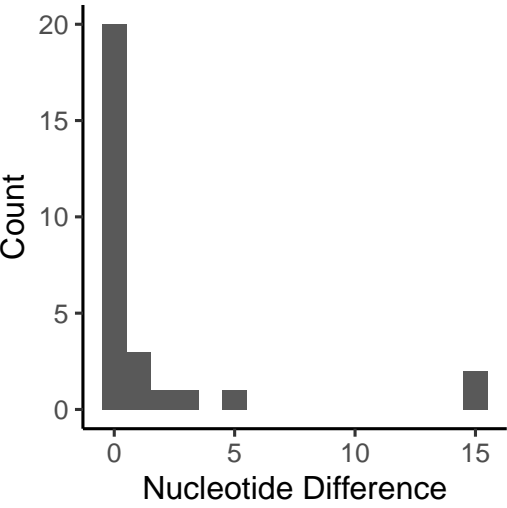
IGHV1-24*01

63 sequences assigned
35 (55.6%) exact matches, in which:
28 unique CDR3
4 unique J



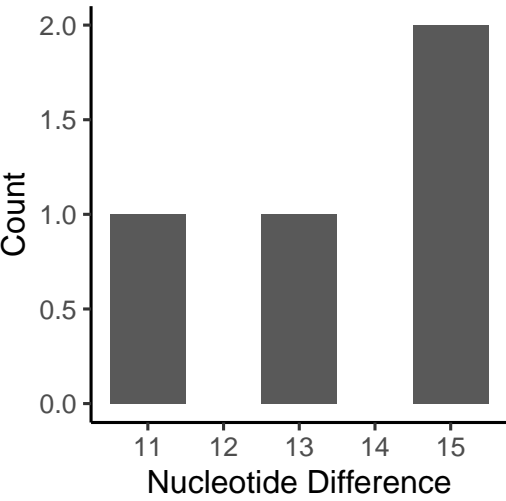
IGHV1-2*04

28 sequences assigned
20 (71.4%) exact matches, in which:
20 unique CDR3
5 unique J



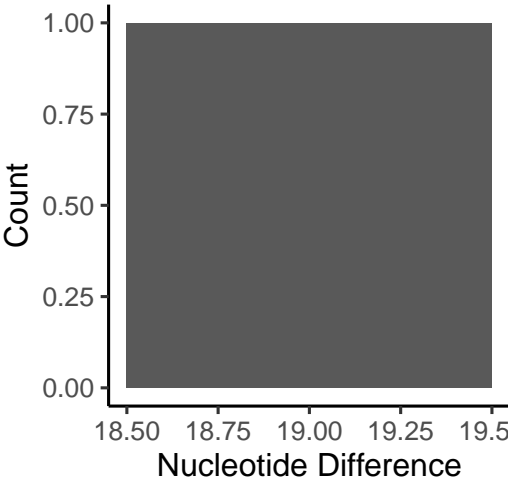
IGHV1-8*03

4 sequences assigned
No exact matches.



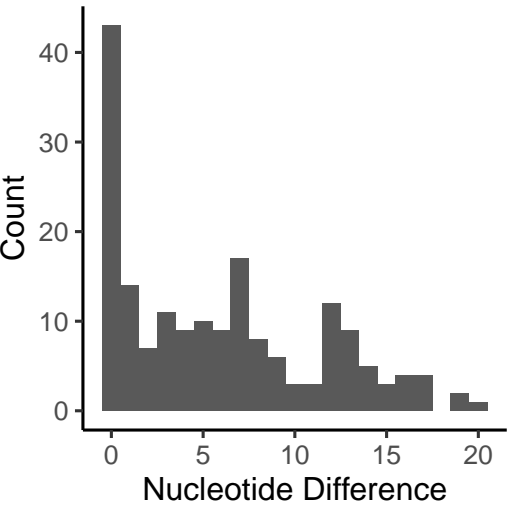
IGHV1-45*02

1 sequences assigned
No exact matches.



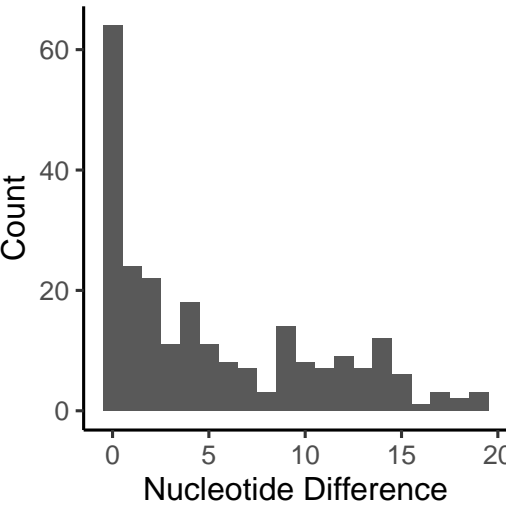
IGHV1-3*01

190 sequences assigned
43 (22.6%) exact matches, in which:
43 unique CDR3
4 unique J



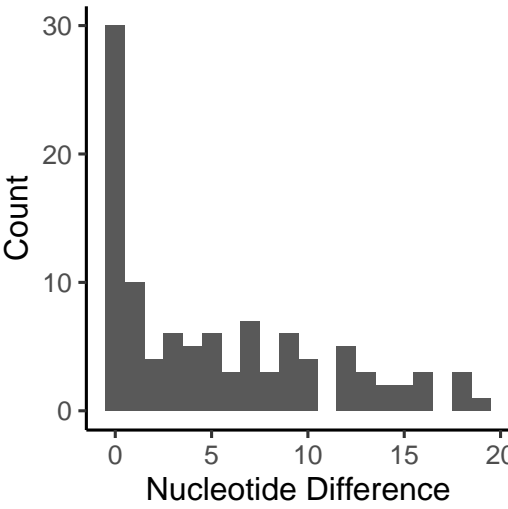
IGHV1-18*01

256 sequences assigned
64 (25%) exact matches, in which:
63 unique CDR3
5 unique J



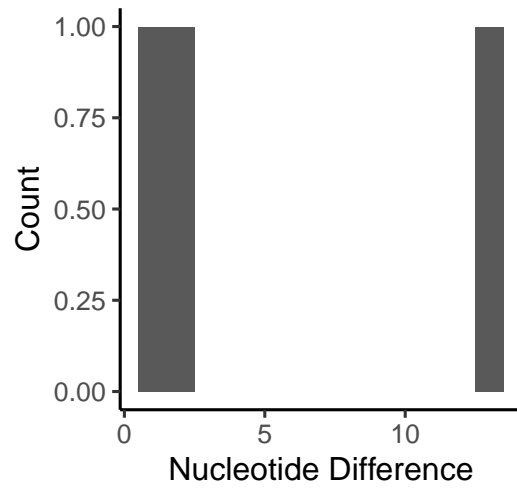
IGHV1-46*01

108 sequences assigned
30 (27.8%) exact matches, in which:
30 unique CDR3
5 unique J



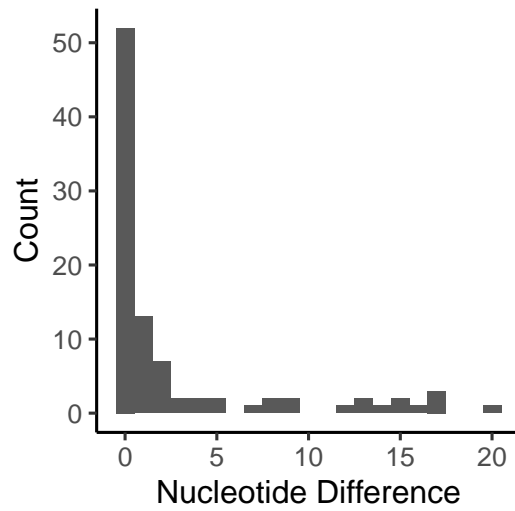
IGHV1-58*01

3 sequences assigned
No exact matches.



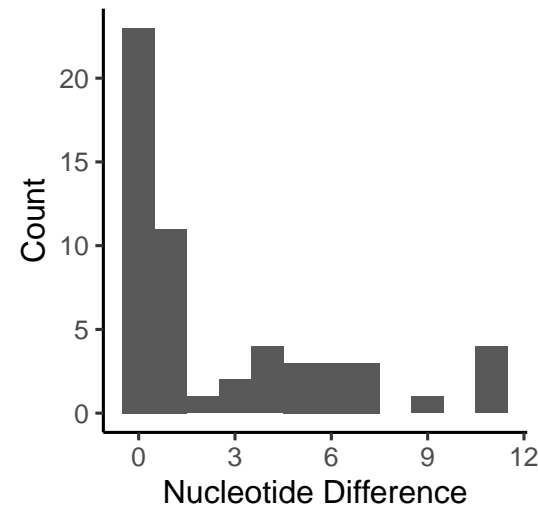
IGHV1-69*04

101 sequences assigned
52 (51.5%) exact matches, in which:
51 unique CDR3
4 unique J



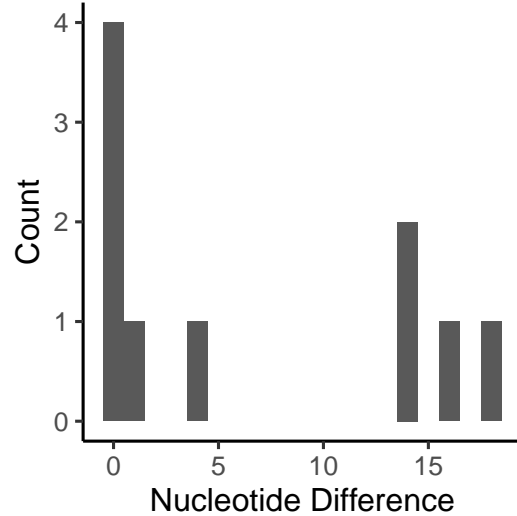
IGHV2-5*02

56 sequences assigned
23 (41.1%) exact matches, in which:
22 unique CDR3
4 unique J



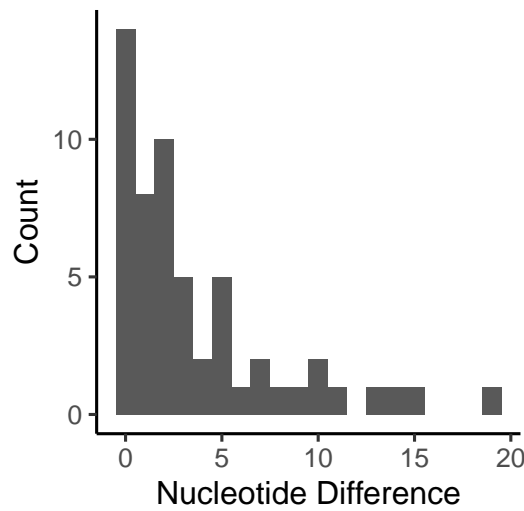
IGHV1-58*02

10 sequences assigned
4 (40%) exact matches, in which:
4 unique CDR3
3 unique J



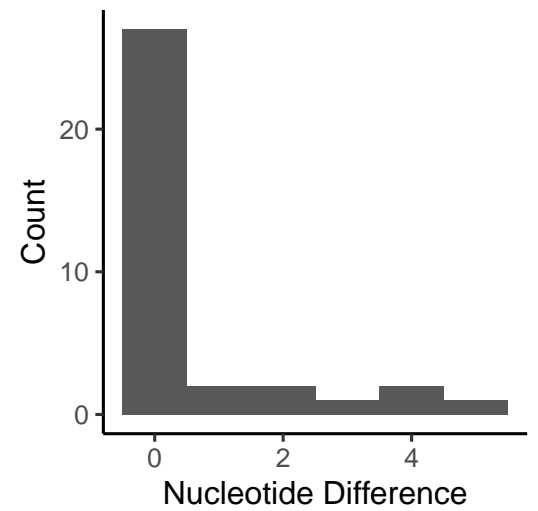
IGHV1-69*06

61 sequences assigned
14 (23%) exact matches, in which:
14 unique CDR3
3 unique J



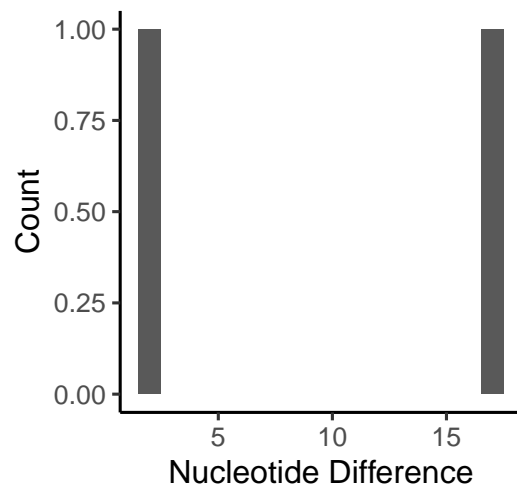
IGHV2-26*01

35 sequences assigned
27 (77.1%) exact matches, in which:
26 unique CDR3
5 unique J



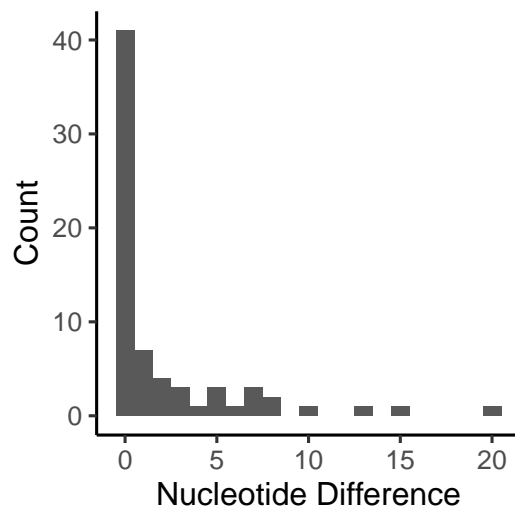
IGHV1-68*02

2 sequences assigned
No exact matches.



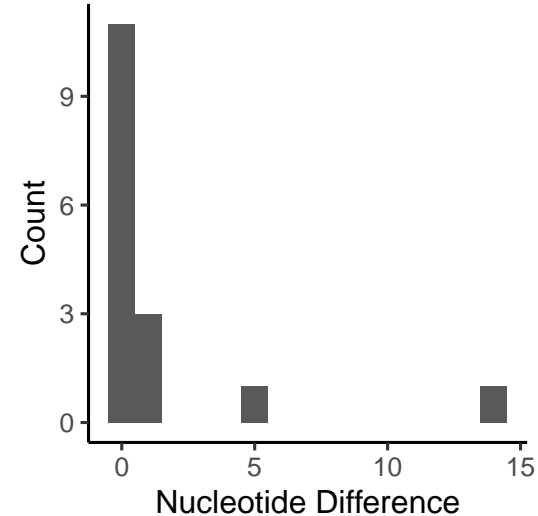
IGHV2-5*01

71 sequences assigned
41 (57.7%) exact matches, in which:
41 unique CDR3
5 unique J



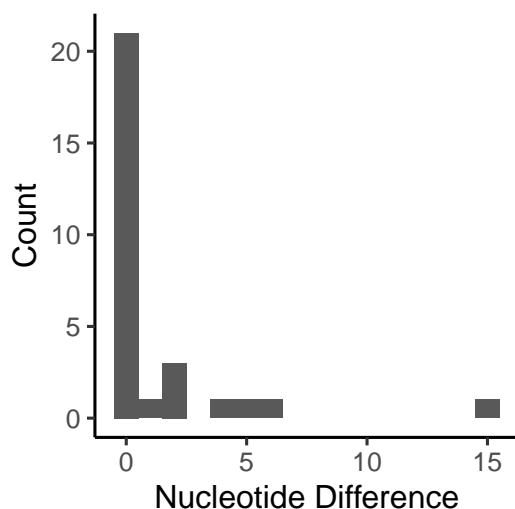
IGHV2-70*01

18 sequences assigned
11 (61.1%) exact matches, in which:
11 unique CDR3
3 unique J



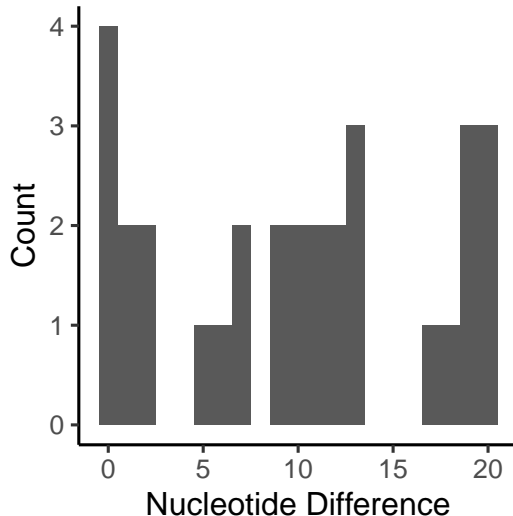
IGHV2-70*15

29 sequences assigned
21 (72.4%) exact matches, in which:
21 unique CDR3
4 unique J



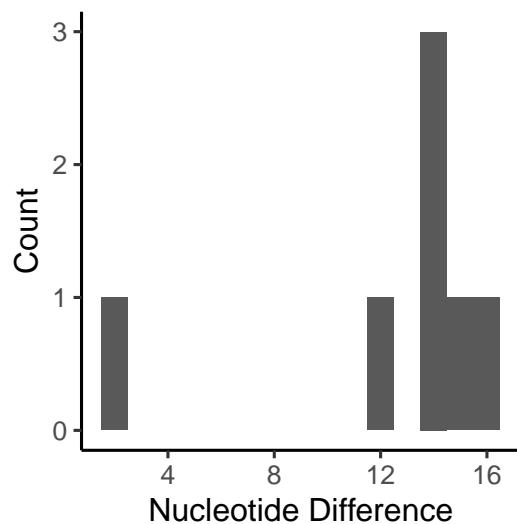
IGHV3-7*05

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



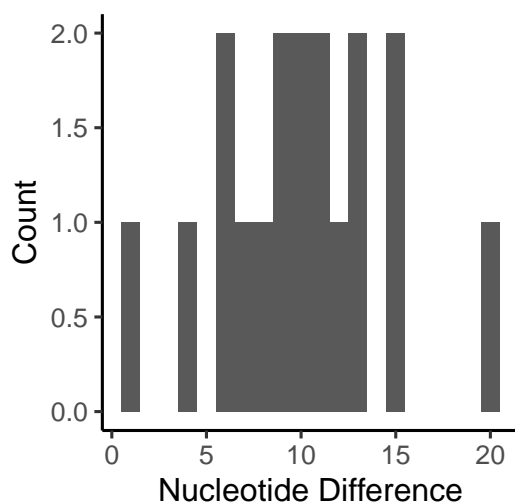
IGHV3-13*01

7 sequences assigned
No exact matches.



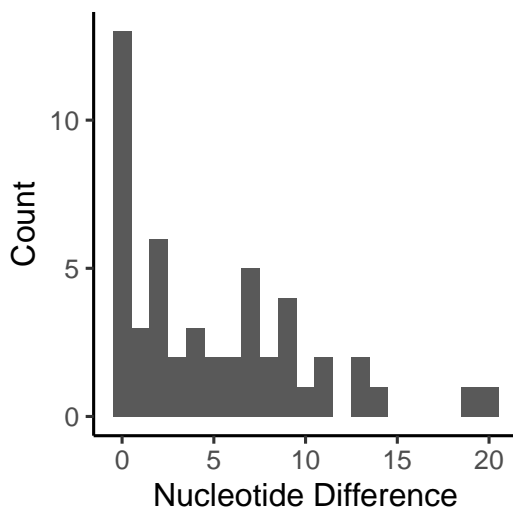
IGHV3-7*01

18 sequences assigned
No exact matches.



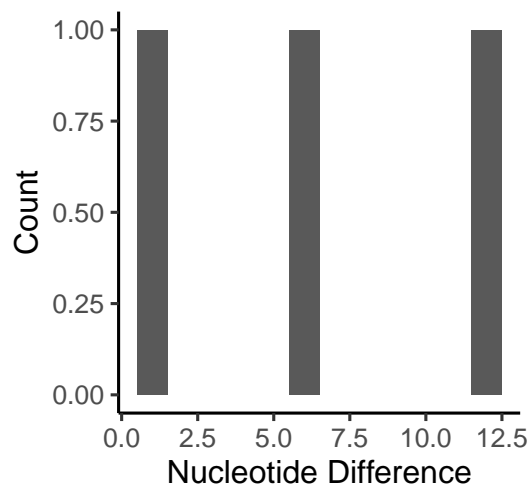
IGHV3-11*05

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



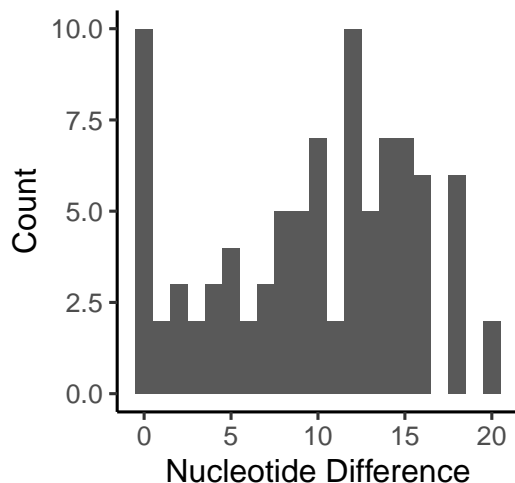
IGHV3-13*04

3 sequences assigned
No exact matches.



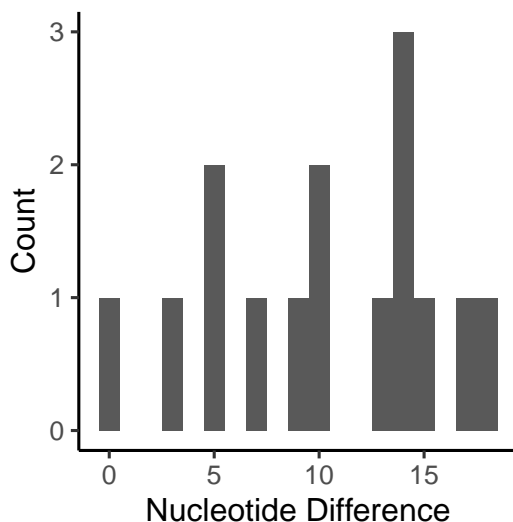
IGHV3-7*03

101 sequences assigned
10 (9.9%) exact matches, in which:
10 unique CDR3
4 unique J



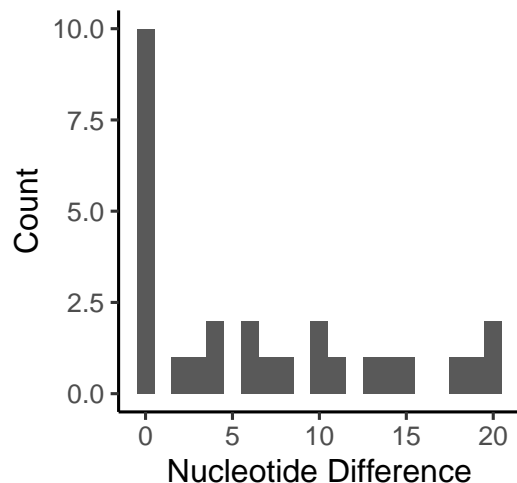
IGHV3-11*06

16 sequences assigned
1 (6.2%) exact matches, in which:
1 unique CDR3
1 unique J



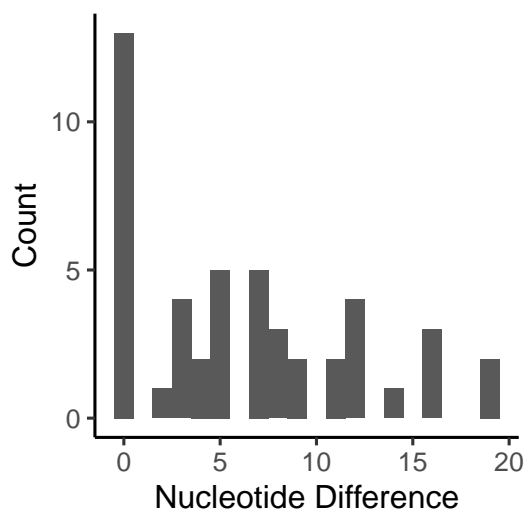
IGHV3-15*01

33 sequences assigned
10 (30.3%) exact matches, in which:
10 unique CDR3
3 unique J



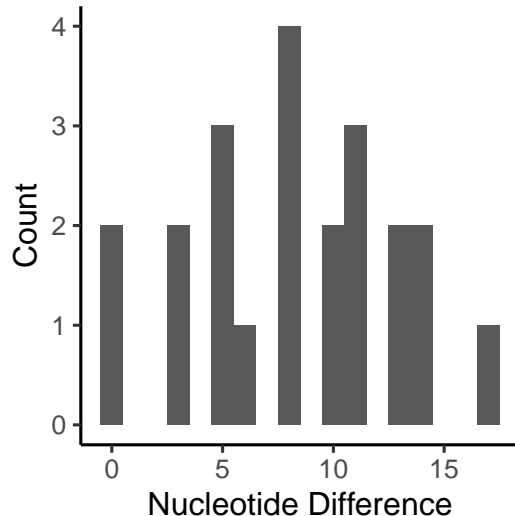
IGHV3-15*07

49 sequences assigned
13 (26.5%) exact matches, in which:
13 unique CDR3
4 unique J



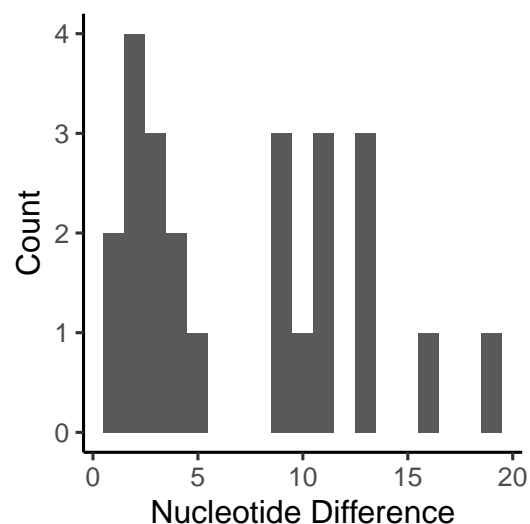
IGHV3-21*04

23 sequences assigned
2 (8.7%) exact matches, in which:
2 unique CDR3
2 unique J



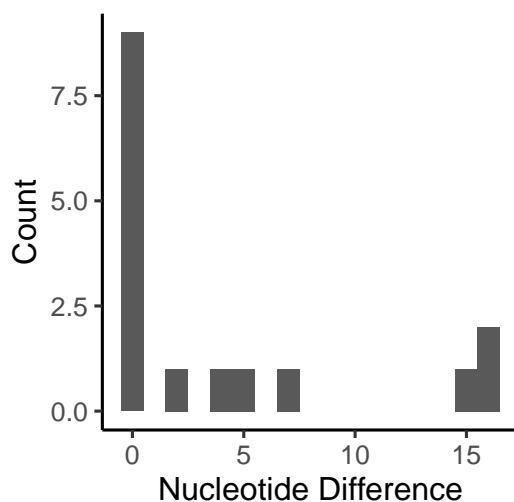
IGHV3-33*05

24 sequences assigned
No exact matches.



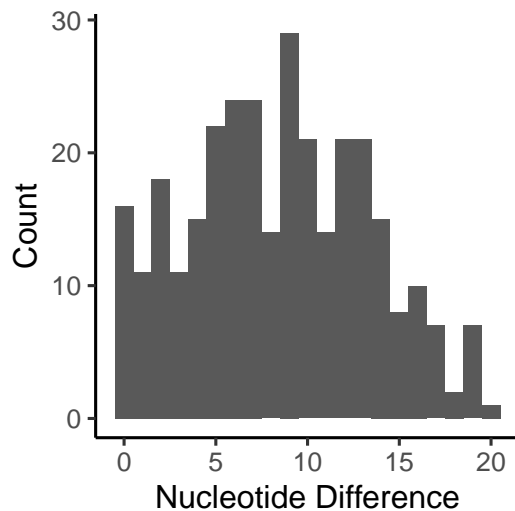
IGHV3-20*04

17 sequences assigned
9 (52.9%) exact matches, in which:
9 unique CDR3
3 unique J



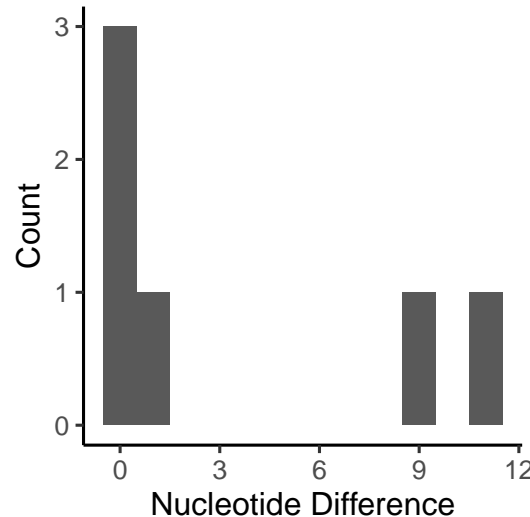
IGHV3-23*04

323 sequences assigned
16 (5%) exact matches, in which:
16 unique CDR3
3 unique J



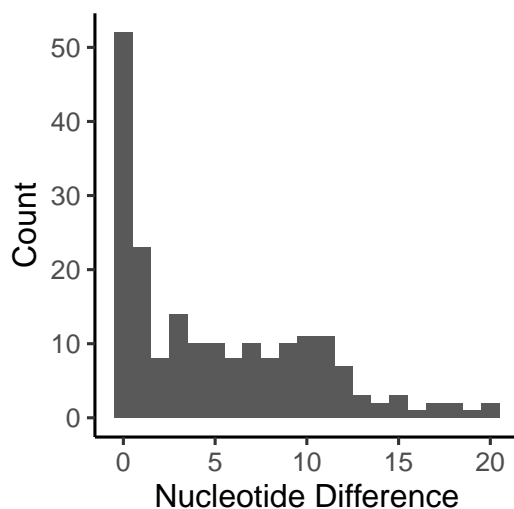
IGHV3-43*01

7 sequences assigned
3 (42.9%) exact matches, in which:
3 unique CDR3
2 unique J



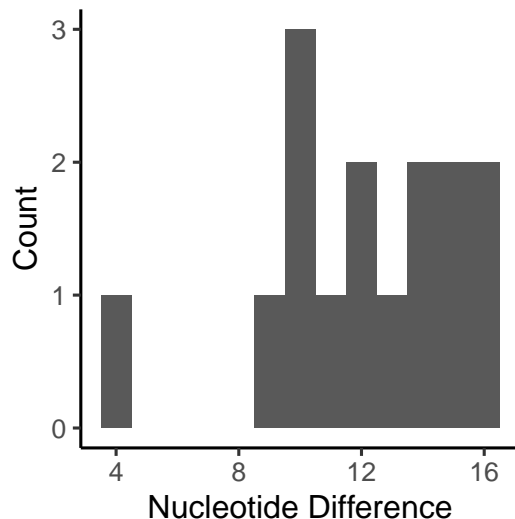
IGHV3-21*01

201 sequences assigned
52 (25.9%) exact matches, in which:
50 unique CDR3
5 unique J



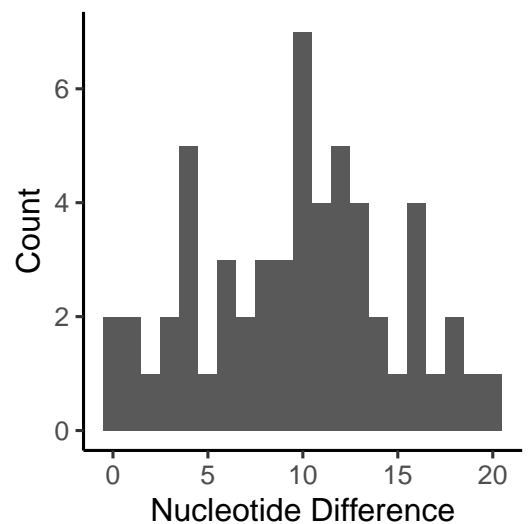
IGHV3-33*01

15 sequences assigned
No exact matches.



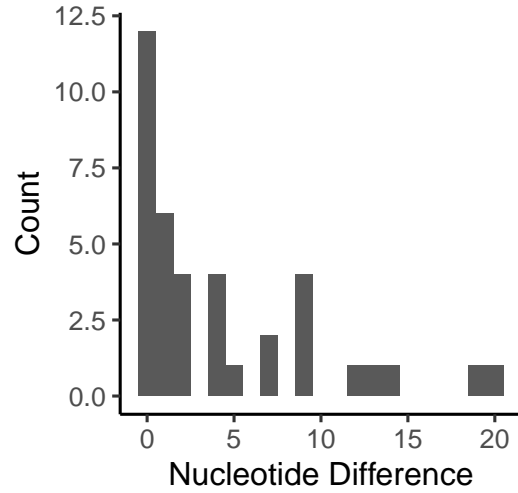
IGHV3-48*01

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



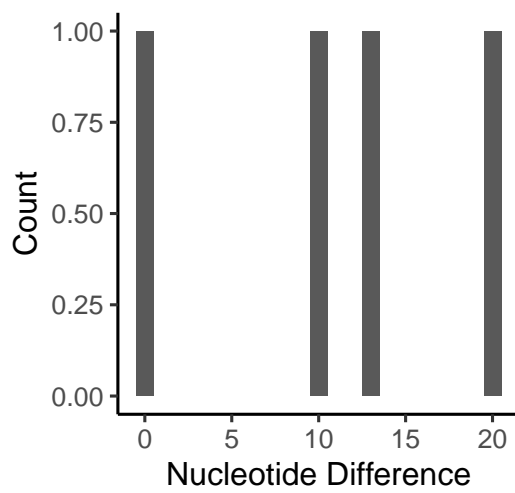
IGHV3-48*02

40 sequences assigned
12 (30%) exact matches, in which:
11 unique CDR3
3 unique J



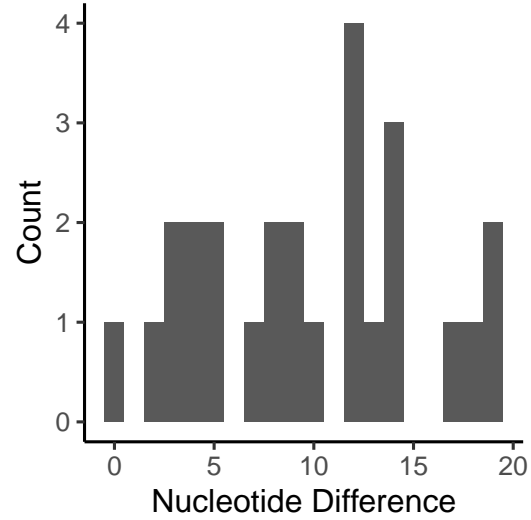
IGHV3-49*05

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



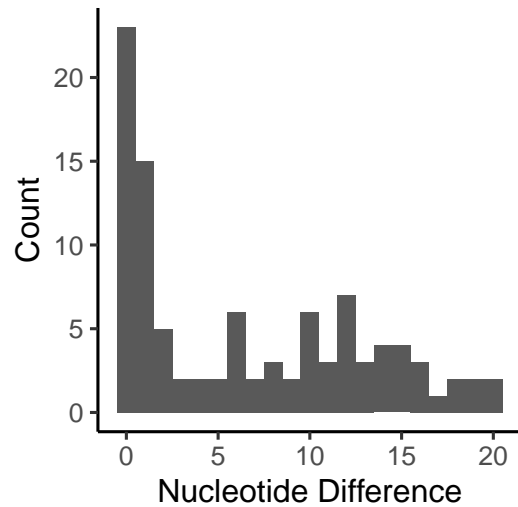
IGHV3-64*04

29 sequences assigned
1 (3.4%) exact matches, in which:
1 unique CDR3
1 unique J



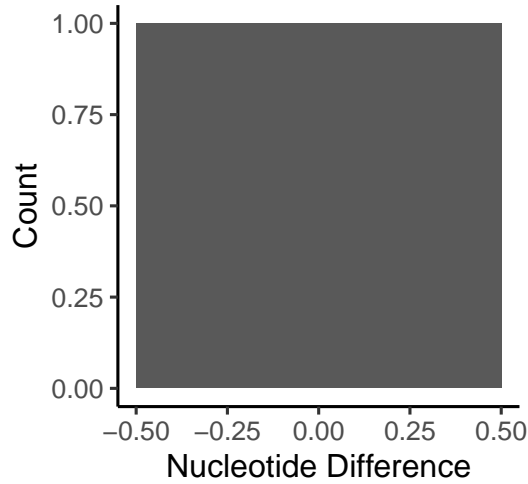
IGHV3-48*04

101 sequences assigned
23 (22.8%) exact matches, in which:
23 unique CDR3
4 unique J



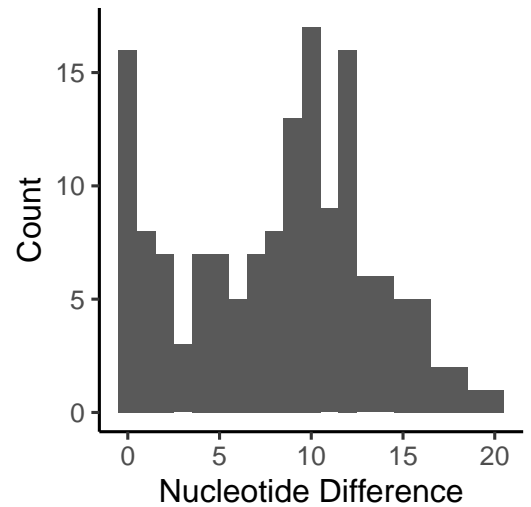
IGHV3-52*01

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



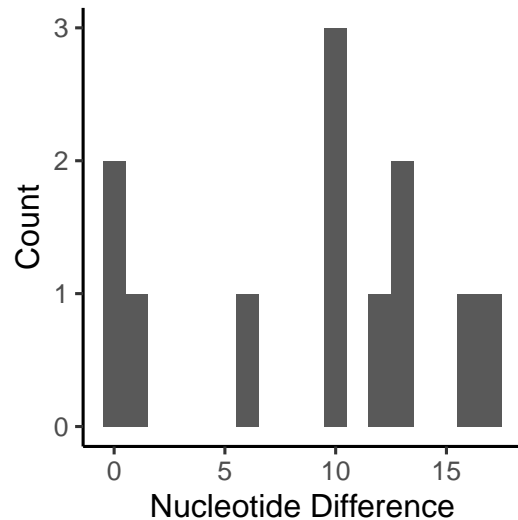
IGHV3-66*01

155 sequences assigned
16 (10.3%) exact matches, in which:
15 unique CDR3
4 unique J



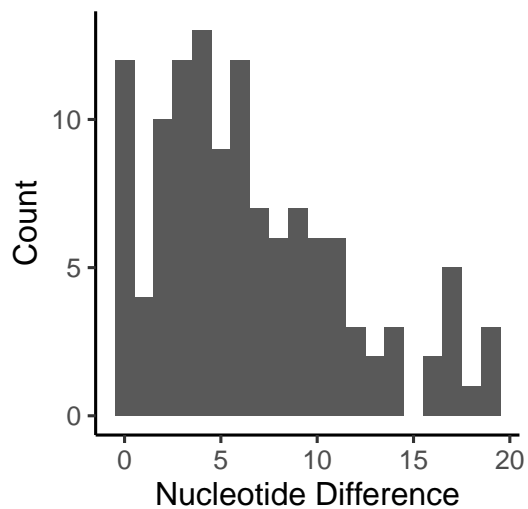
IGHV3-49*03

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



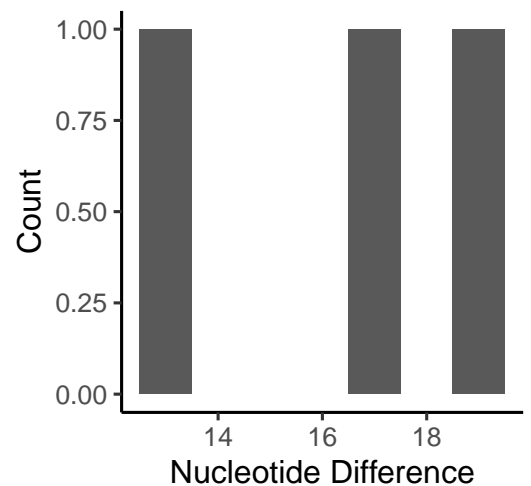
IGHV3-53*01

134 sequences assigned
12 (9%) exact matches, in which:
12 unique CDR3
3 unique J



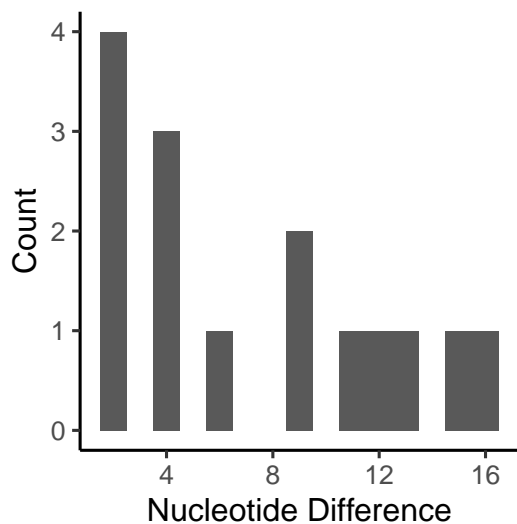
IGHV3-69-1*01

4 sequences assigned
No exact matches.



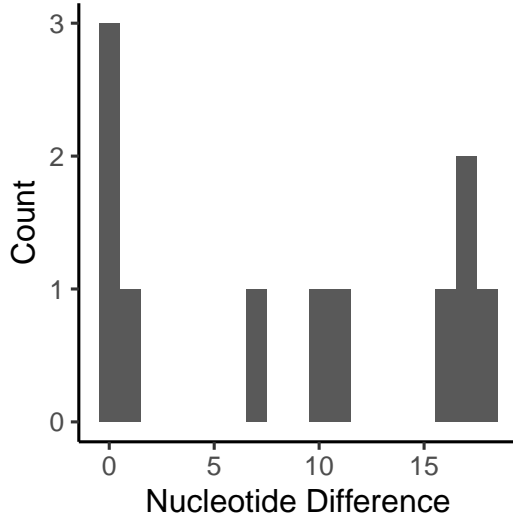
IGHV3-72*01

15 sequences assigned
No exact matches.



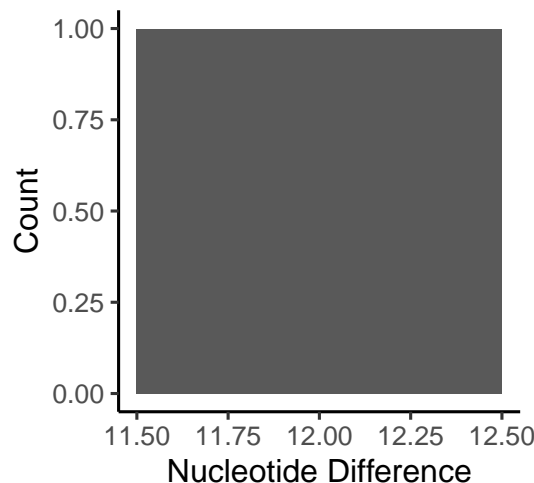
IGHV3-64D*09

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
2 unique J



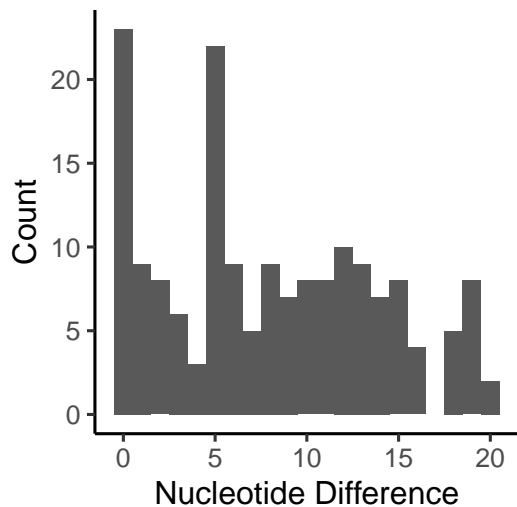
IGHV4-28*03

1 sequences assigned
No exact matches.



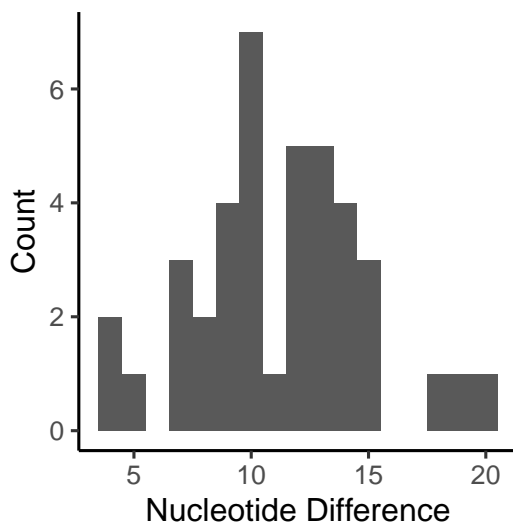
IGHV3-74*01

175 sequences assigned
23 (13.1%) exact matches, in which:
22 unique CDR3
4 unique J



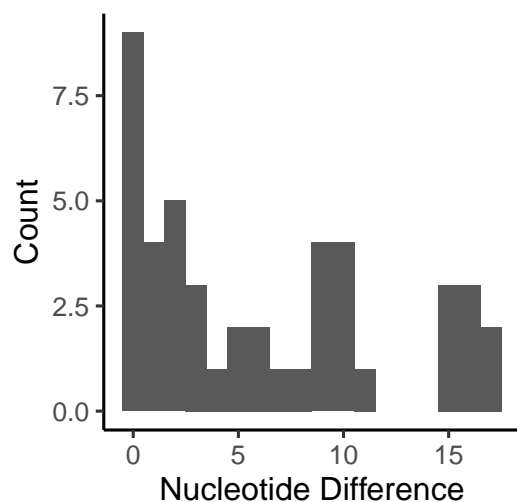
IGHV3-NL1*01

41 sequences assigned
No exact matches.



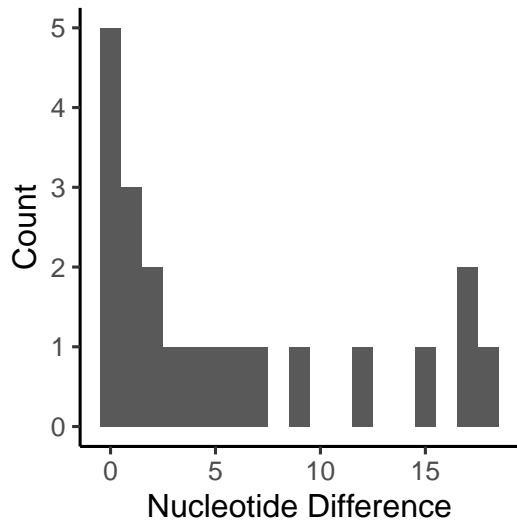
IGHV4-30-2*01

45 sequences assigned
9 (20%) exact matches, in which:
9 unique CDR3
4 unique J



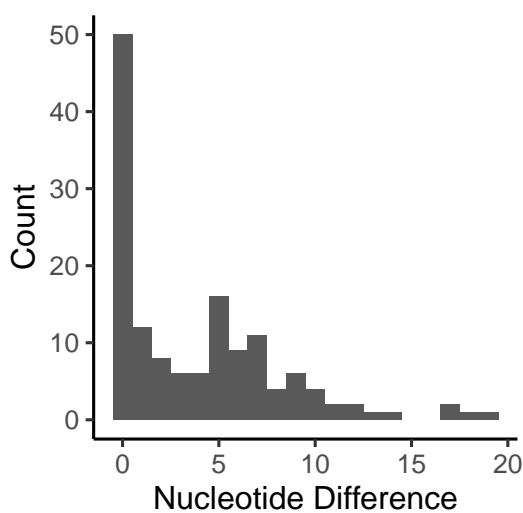
IGHV3-64D*06

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



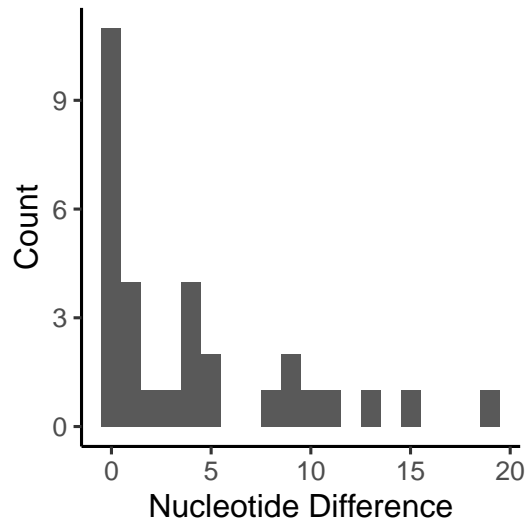
IGHV4-4*02

145 sequences assigned
50 (34.5%) exact matches, in which:
50 unique CDR3
5 unique J



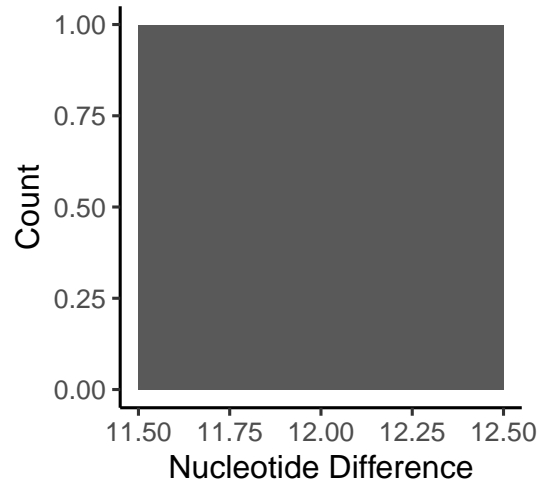
IGHV4-30-4*07

33 sequences assigned
11 (33.3%) exact matches, in which:
11 unique CDR3
4 unique J



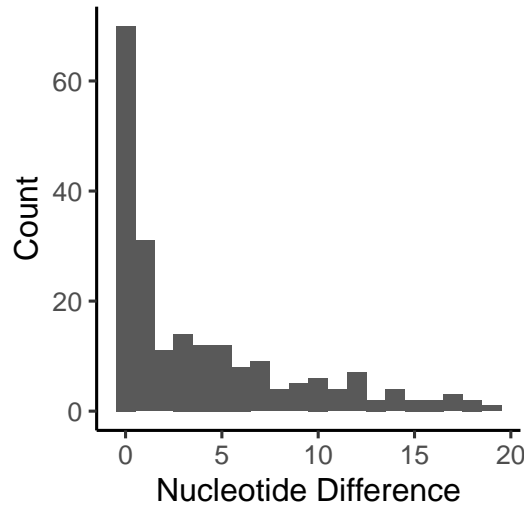
IGHV4-31*11

1 sequences assigned
No exact matches.



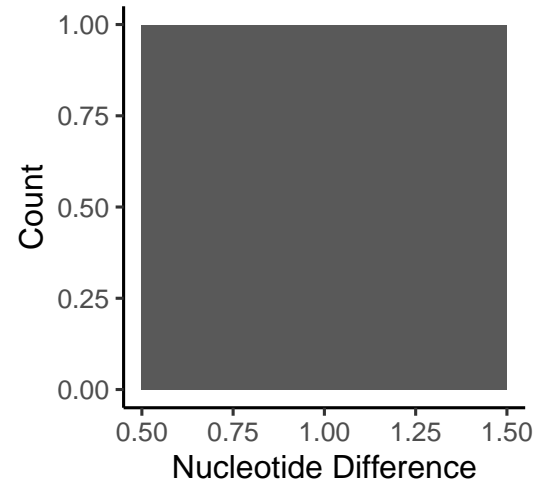
IGHV4-39*01

217 sequences assigned
70 (32.3%) exact matches, in which:
68 unique CDR3
4 unique J



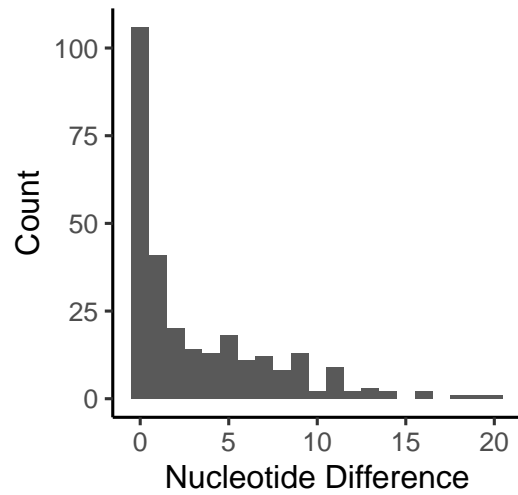
IGHV4-55*09

1 sequences assigned
No exact matches.



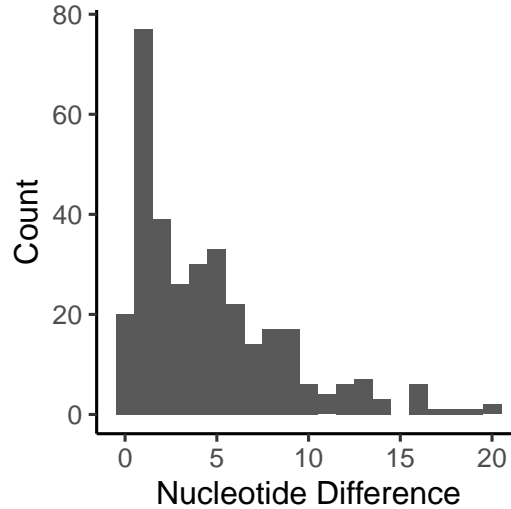
IGHV4-34*01

286 sequences assigned
106 (37.1%) exact matches, in which:
103 unique CDR3
5 unique J



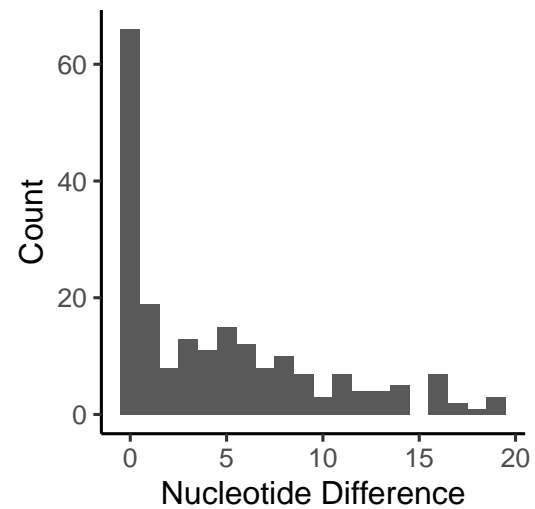
IGHV4-39*07

341 sequences assigned
20 (5.9%) exact matches, in which:
20 unique CDR3
3 unique J



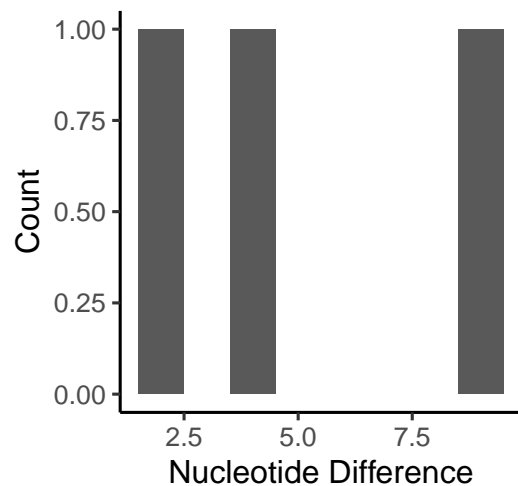
IGHV4-59*01

213 sequences assigned
66 (31%) exact matches, in which:
66 unique CDR3
6 unique J



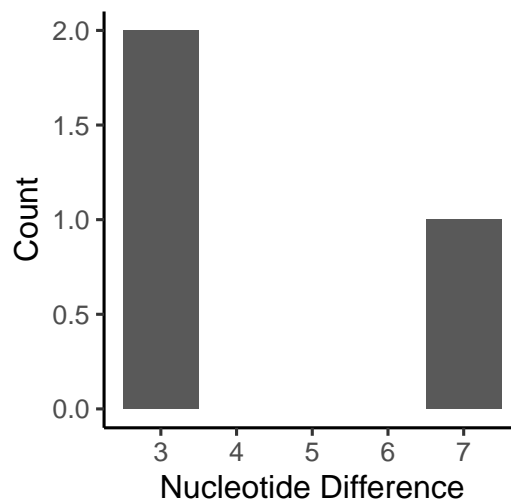
IGHV4-38-2*02

3 sequences assigned
No exact matches.



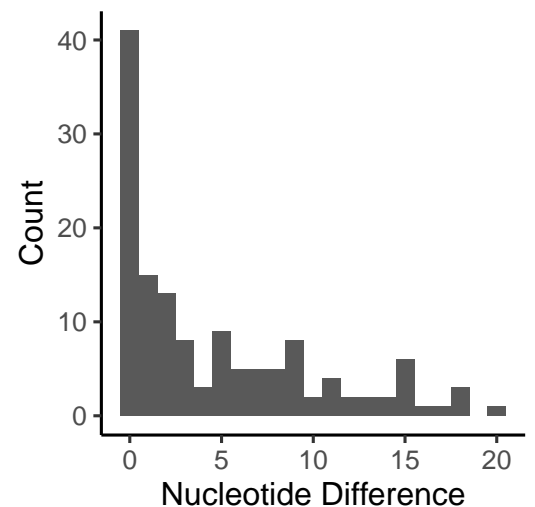
IGHV4-55*08

3 sequences assigned
No exact matches.



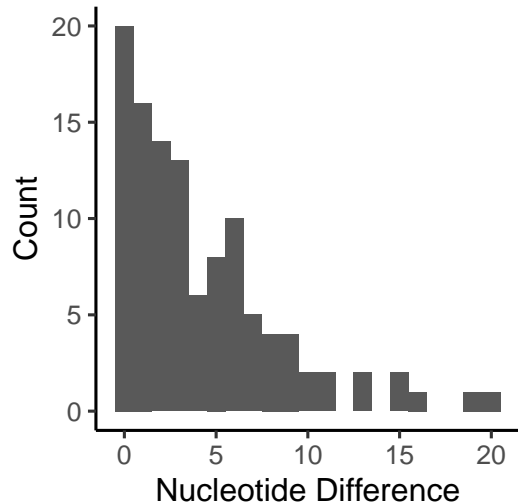
IGHV4-59*08

142 sequences assigned
41 (28.9%) exact matches, in which:
40 unique CDR3
6 unique J



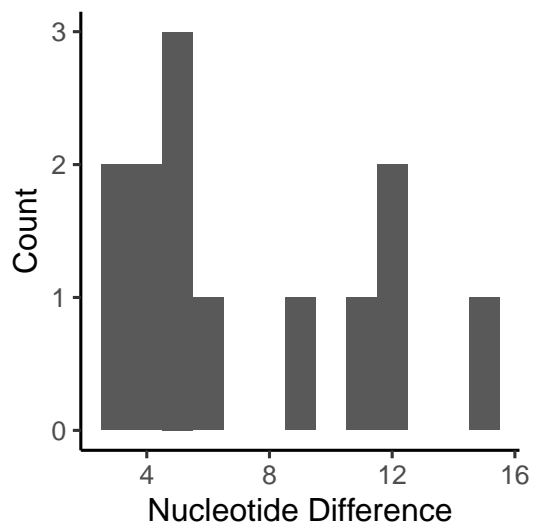
IGHV4-59*12

112 sequences assigned
20 (17.9%) exact matches, in which:
20 unique CDR3
4 unique J



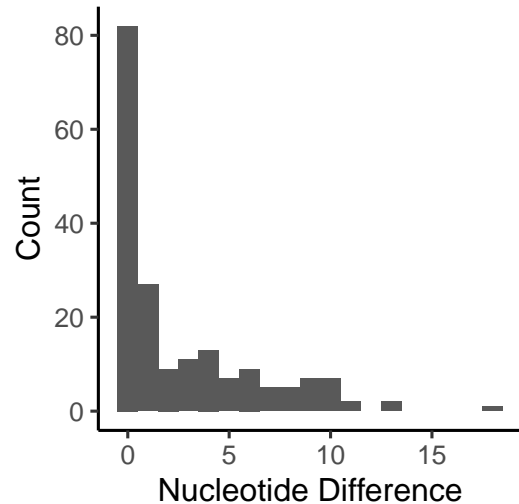
IGHV4-61*08

13 sequences assigned
No exact matches.



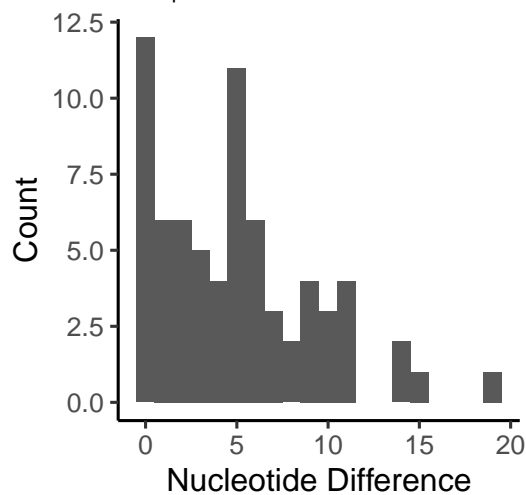
IGHV5-51*01

190 sequences assigned
82 (43.2%) exact matches, in which:
82 unique CDR3
6 unique J



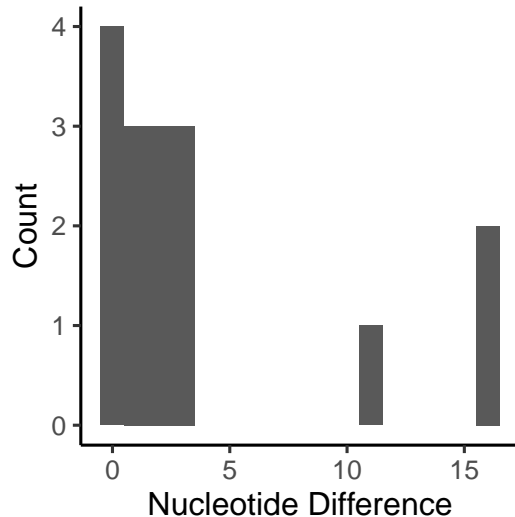
IGHV4-61*01

70 sequences assigned
12 (17.1%) exact matches, in which:
12 unique CDR3
4 unique J



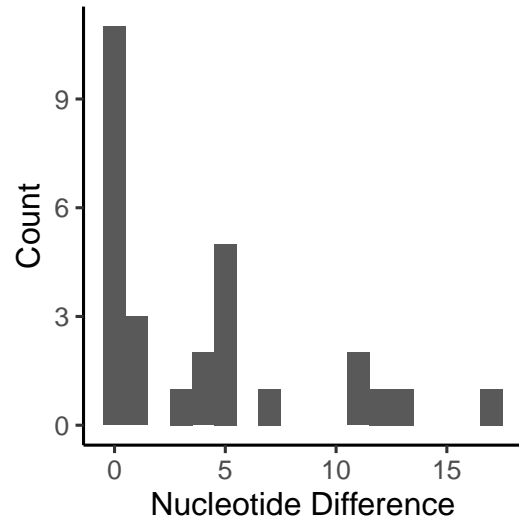
IGHV5-10-1*01

17 sequences assigned
4 (23.5%) exact matches, in which:
4 unique CDR3
2 unique J



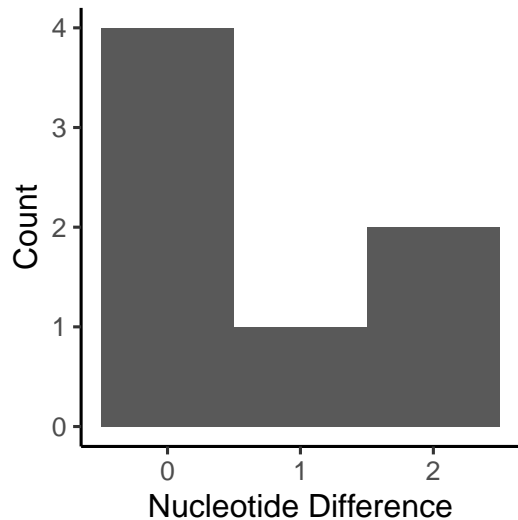
IGHV6-1*01

30 sequences assigned
11 (36.7%) exact matches, in which:
11 unique CDR3
5 unique J



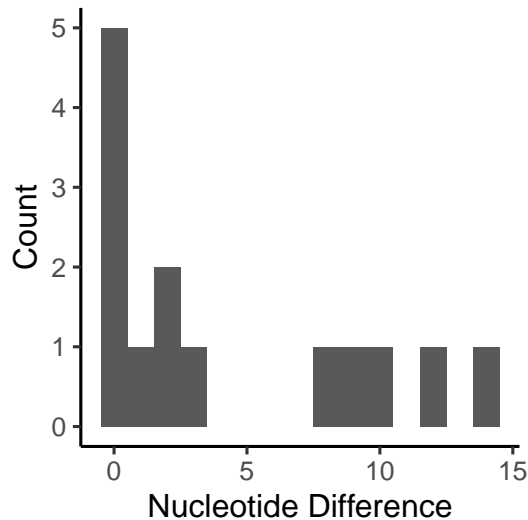
IGHV4-61*07

7 sequences assigned
4 (57.1%) exact matches, in which:
4 unique CDR3
2 unique J



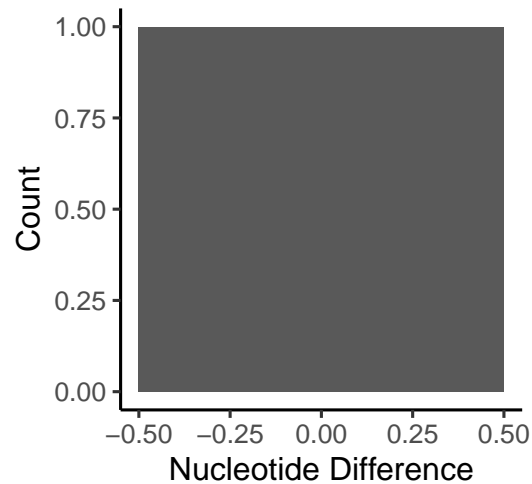
IGHV5-10-1*03

14 sequences assigned
5 (35.7%) exact matches, in which:
5 unique CDR3
2 unique J



IGHV7-4-1*01

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





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–39*07_C288A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.