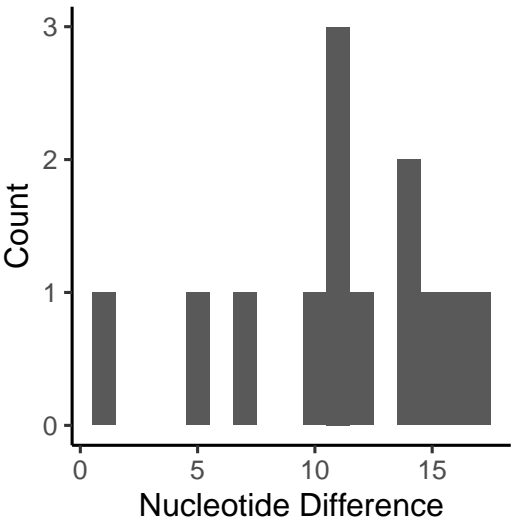


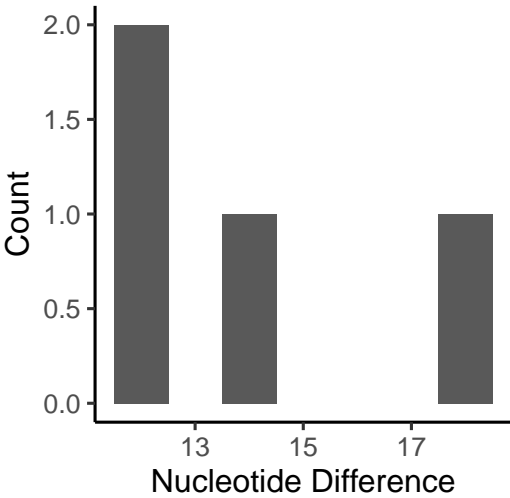
IGHV1-2*02

14 sequences assigned
No exact matches.



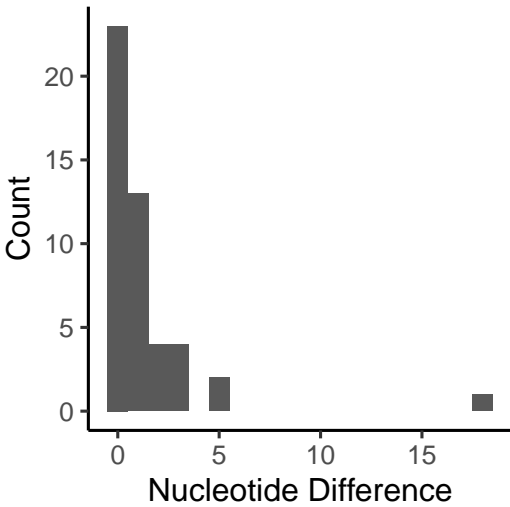
IGHV1-8*02

4 sequences assigned
No exact matches.



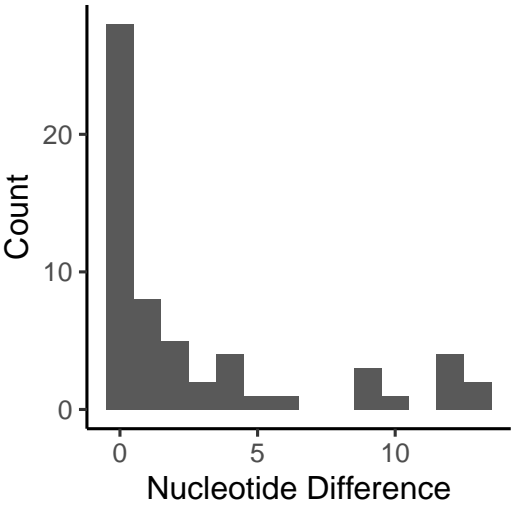
IGHV1-24*01

49 sequences assigned
23 (46.9%) exact matches, in which:
22 unique CDR3
3 unique J



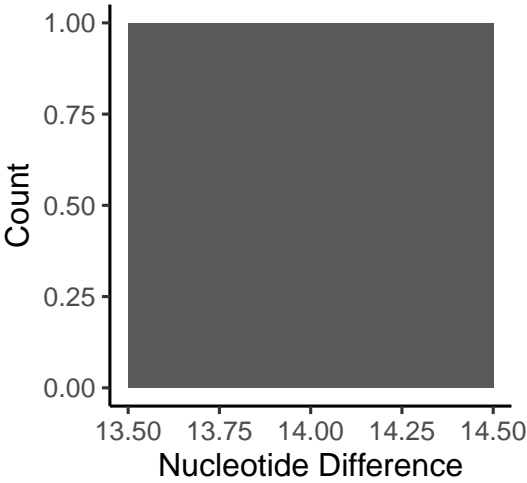
IGHV1-2*04

59 sequences assigned
28 (47.5%) exact matches, in which:
28 unique CDR3
4 unique J



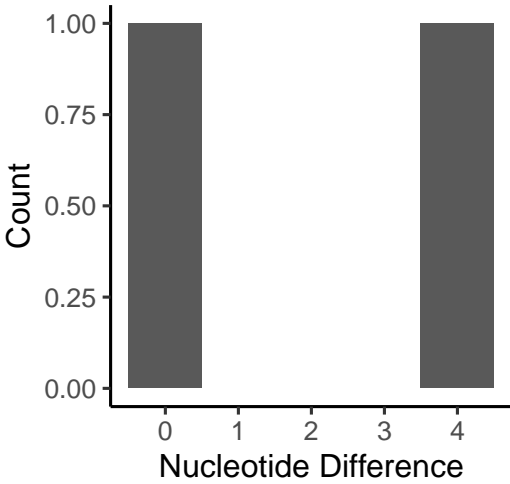
IGHV1-8*03

1 sequences assigned
No exact matches.



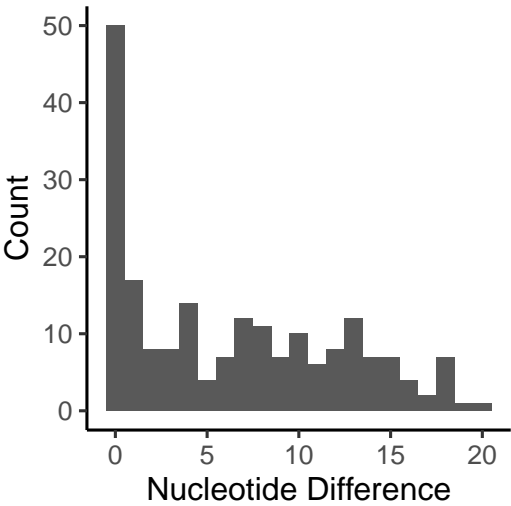
IGHV1-45*02

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



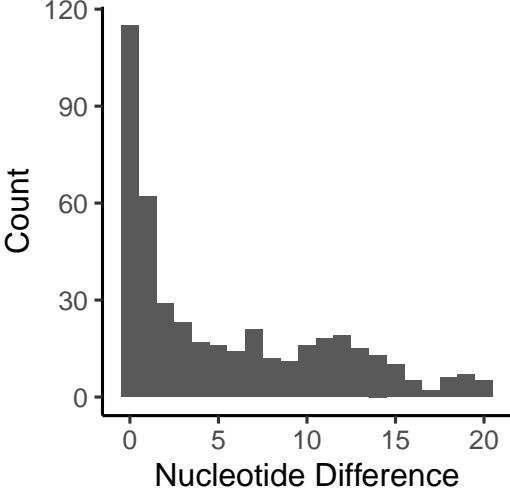
IGHV1-3*01

213 sequences assigned
50 (23.5%) exact matches, in which:
49 unique CDR3
5 unique J



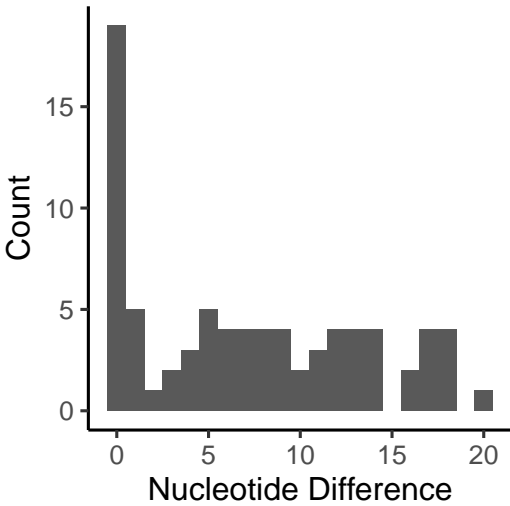
IGHV1-18*01

455 sequences assigned
115 (25.3%) exact matches, in which:
114 unique CDR3
5 unique J



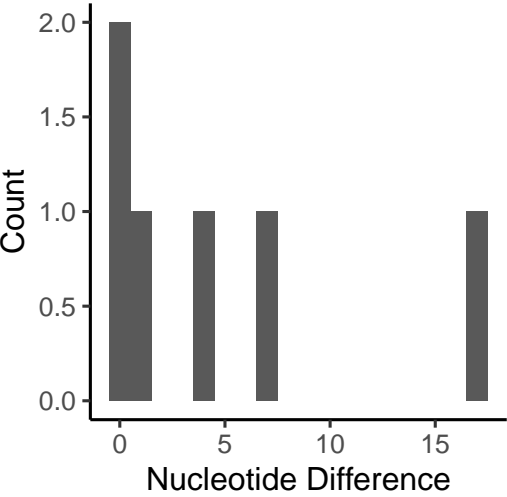
IGHV1-46*01

97 sequences assigned
19 (19.6%) exact matches, in which:
18 unique CDR3
5 unique J



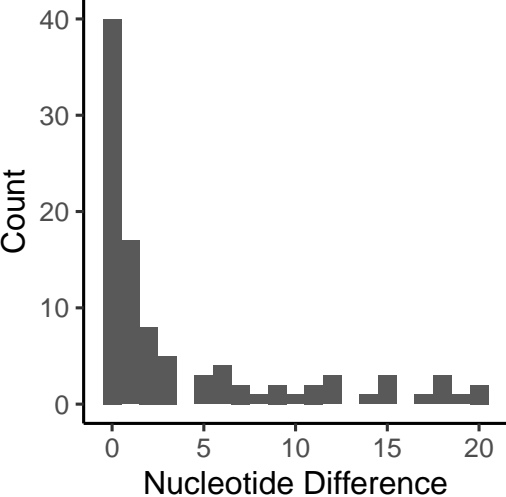
IGHV1-58*01

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



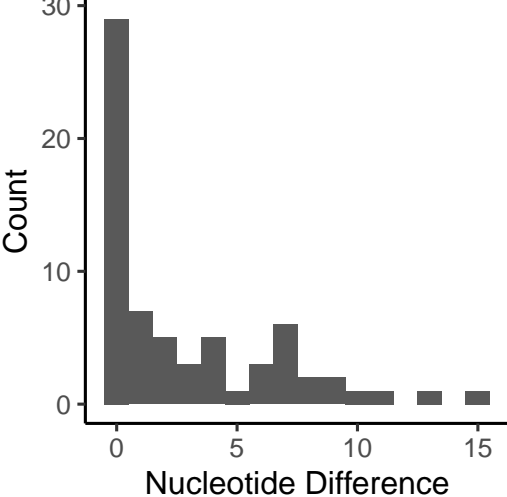
IGHV1-69*04

104 sequences assigned
40 (38.5%) exact matches, in which:
40 unique CDR3
5 unique J



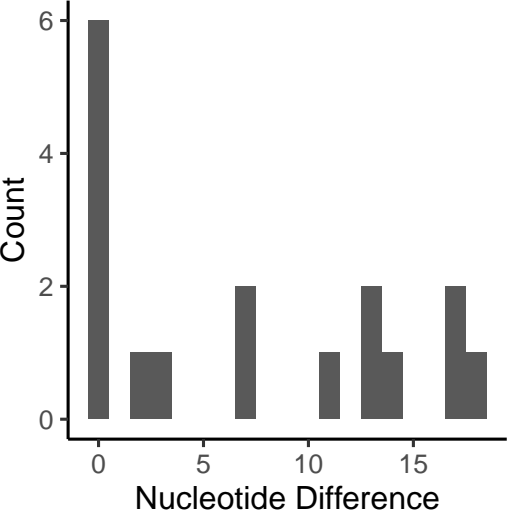
IGHV2-5*02

68 sequences assigned
29 (42.6%) exact matches, in which:
29 unique CDR3
5 unique J



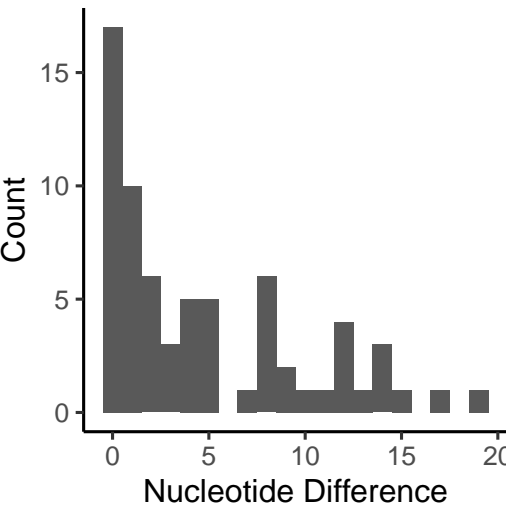
IGHV1-58*02

17 sequences assigned
6 (35.3%) exact matches, in which:
6 unique CDR3
2 unique J



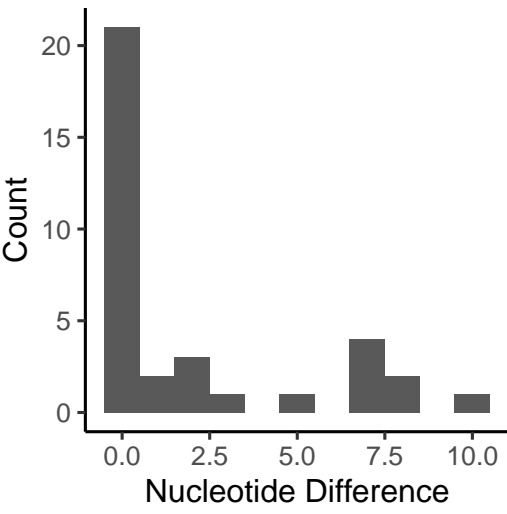
IGHV1-69*06

73 sequences assigned
17 (23.3%) exact matches, in which:
17 unique CDR3
3 unique J



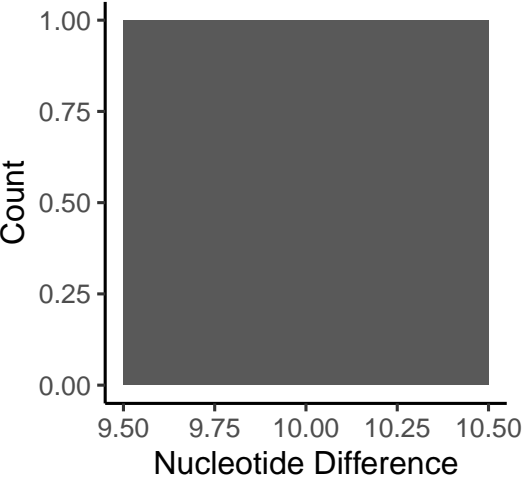
IGHV2-26*01

35 sequences assigned
21 (60%) exact matches, in which:
21 unique CDR3
5 unique J



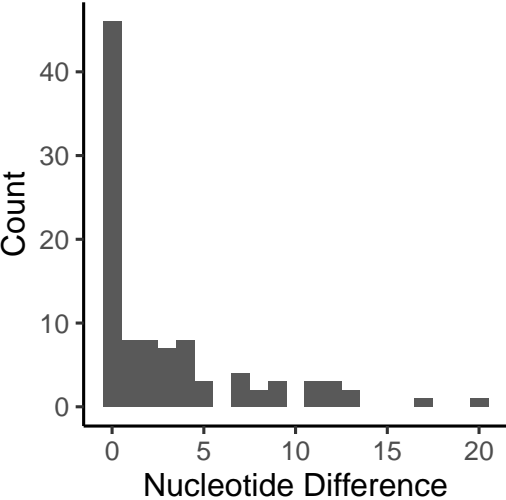
IGHV1-69-2*01

1 sequences assigned
No exact matches.



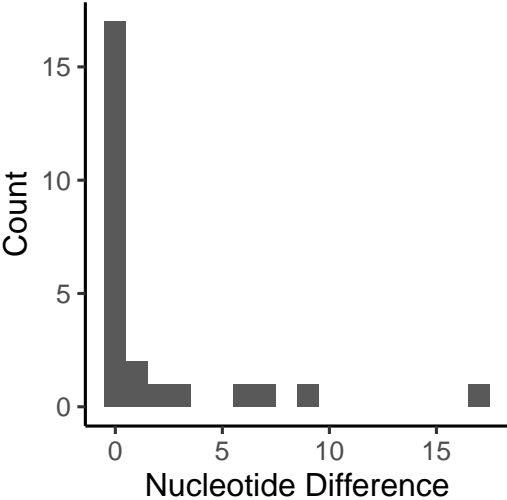
IGHV2-5*01

100 sequences assigned
46 (46%) exact matches, in which:
46 unique CDR3
4 unique J



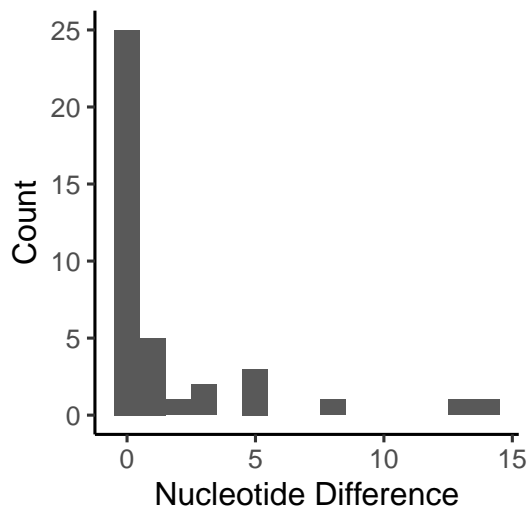
IGHV2-70*01

25 sequences assigned
17 (68%) exact matches, in which:
17 unique CDR3
5 unique J



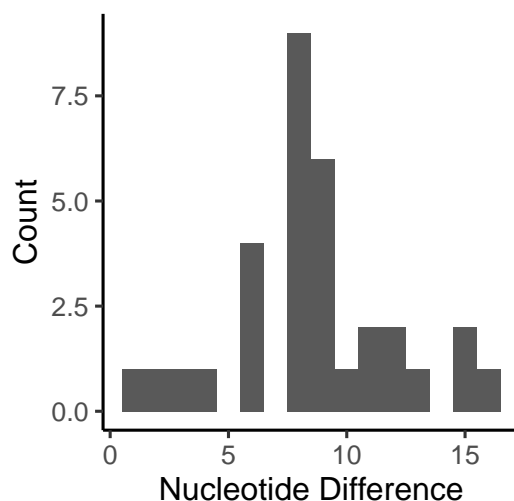
IGHV2-70*15

39 sequences assigned
25 (64.1%) exact matches, in which:
25 unique CDR3
5 unique J



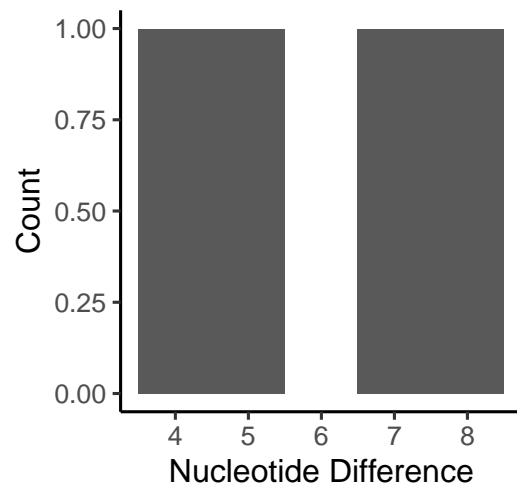
IGHV3-7*05

33 sequences assigned
No exact matches.



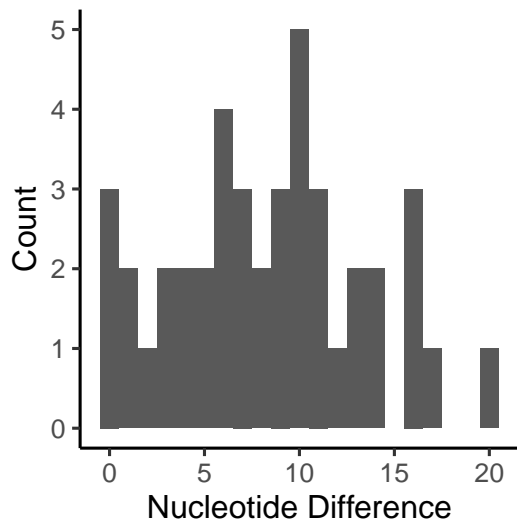
IGHV3-13*01

4 sequences assigned
No exact matches.



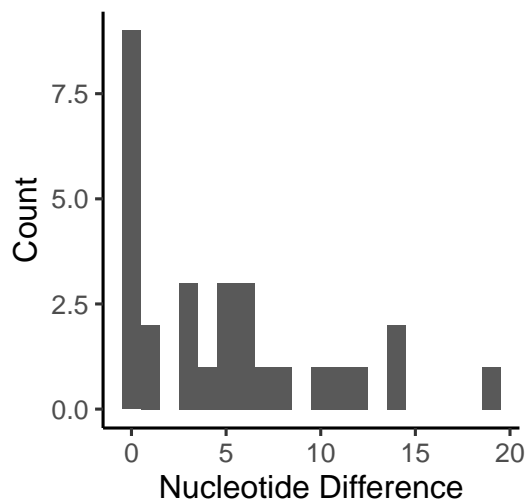
IGHV3-7*01

44 sequences assigned
3 (6.8%) exact matches, in which:
3 unique CDR3
2 unique J



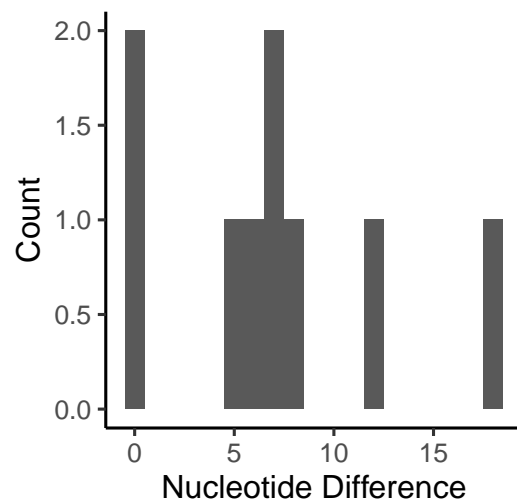
IGHV3-11*05

30 sequences assigned
9 (30%) exact matches, in which:
9 unique CDR3
4 unique J



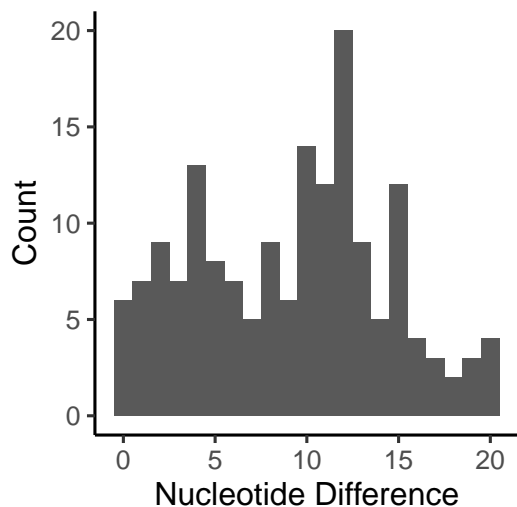
IGHV3-13*04

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
2 unique J



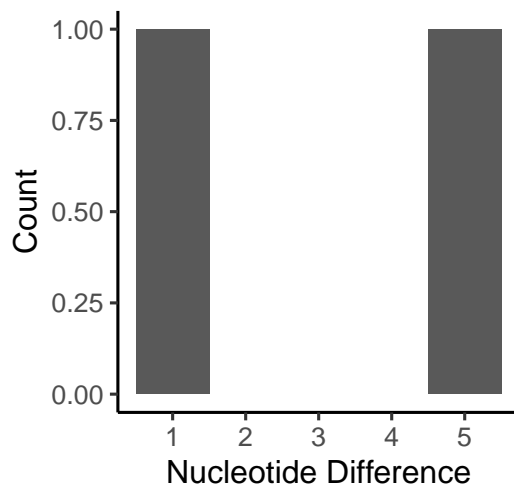
IGHV3-7*03

182 sequences assigned
6 (3.3%) exact matches, in which:
6 unique CDR3
4 unique J



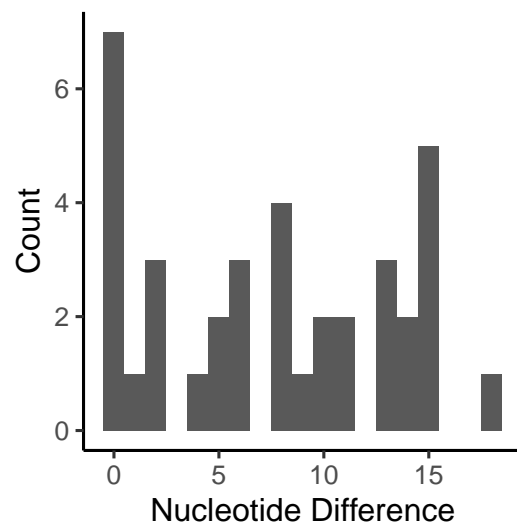
IGHV3-11*06

3 sequences assigned
No exact matches.



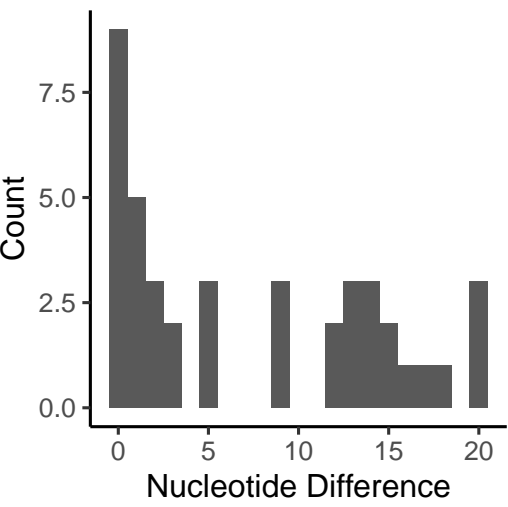
IGHV3-15*01

43 sequences assigned
7 (16.3%) exact matches, in which:
7 unique CDR3
4 unique J



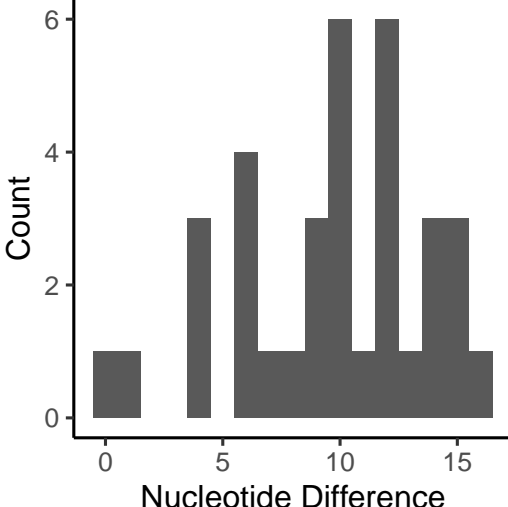
IGHV3-15*07

44 sequences assigned
9 (20.5%) exact matches, in which:
9 unique CDR3
3 unique J



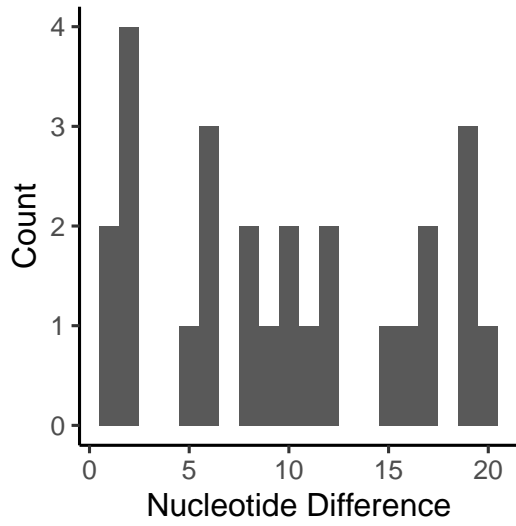
IGHV3-21*04

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



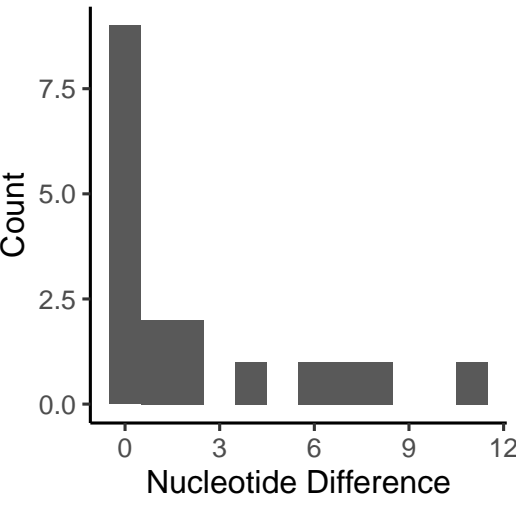
IGHV3-33*05

30 sequences assigned
No exact matches.



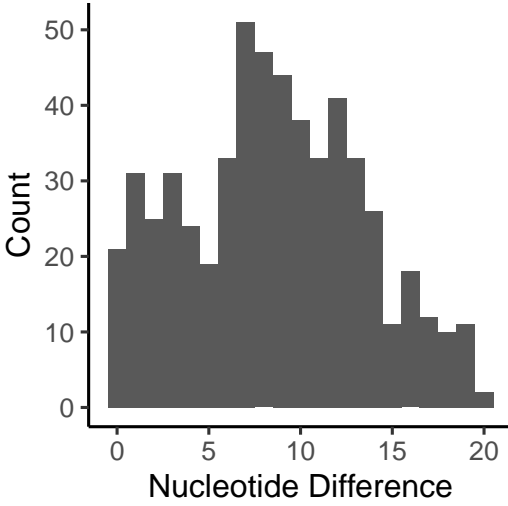
IGHV3-20*04

18 sequences assigned
9 (50%) exact matches, in which:
9 unique CDR3
2 unique J



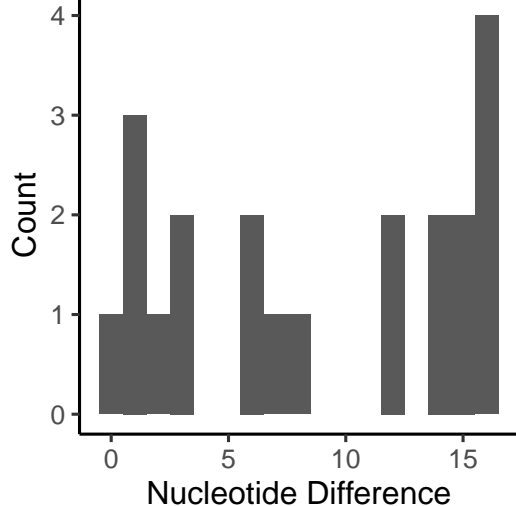
IGHV3-23*04

575 sequences assigned
21 (3.7%) exact matches, in which:
21 unique CDR3
3 unique J



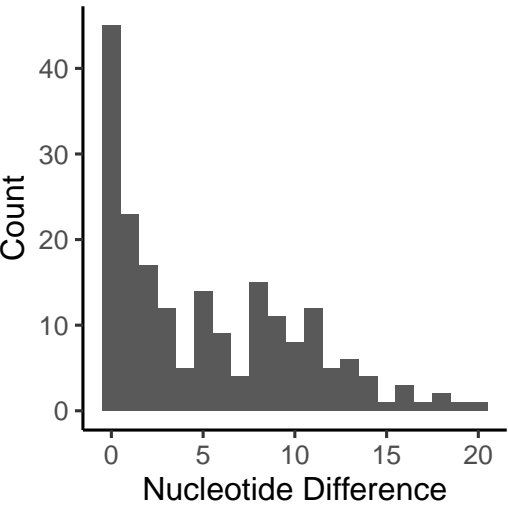
IGHV3-33*06

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



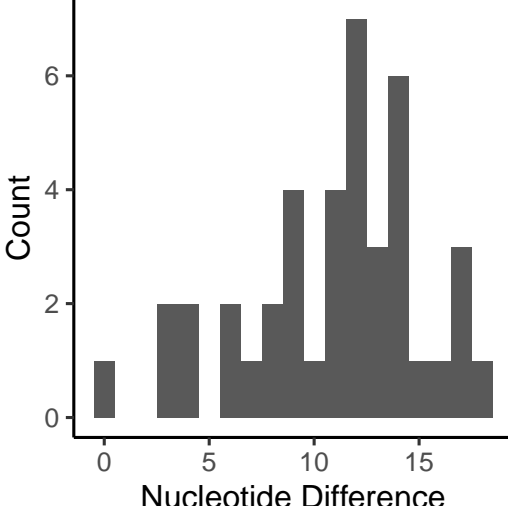
IGHV3-21*01

199 sequences assigned
45 (22.6%) exact matches, in which:
44 unique CDR3
4 unique J



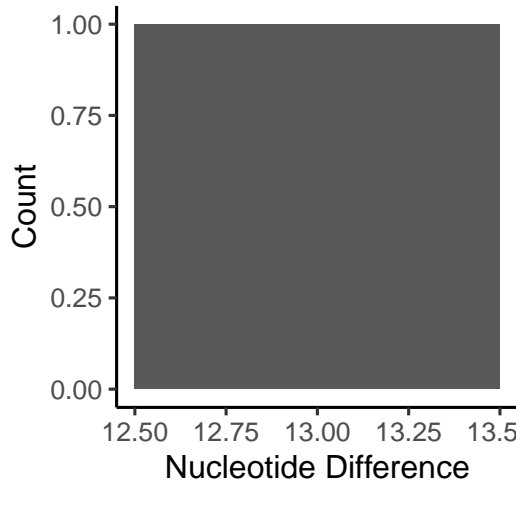
IGHV3-33*01

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



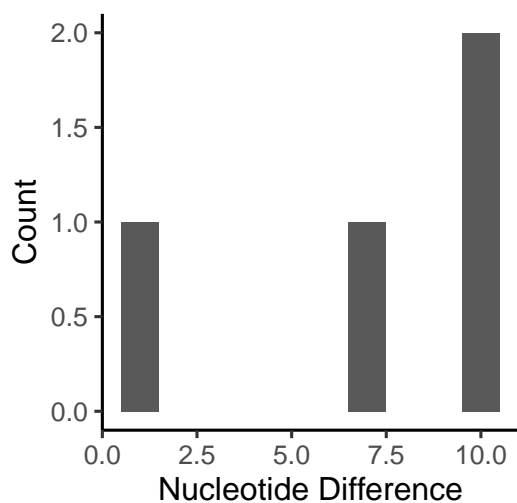
IGHV3-38-3*01

1 sequences assigned
No exact matches.



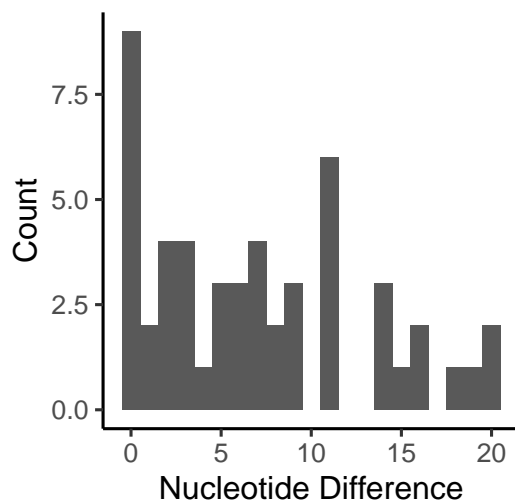
IGHV3-43*01

4 sequences assigned
No exact matches.



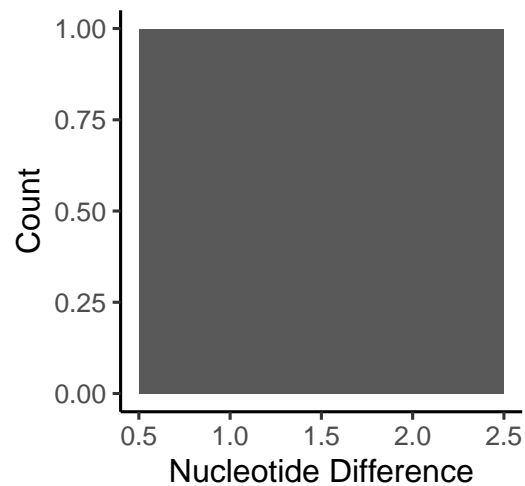
IGHV3-48*02

54 sequences assigned
9 (16.7%) exact matches, in which:
9 unique CDR3
3 unique J



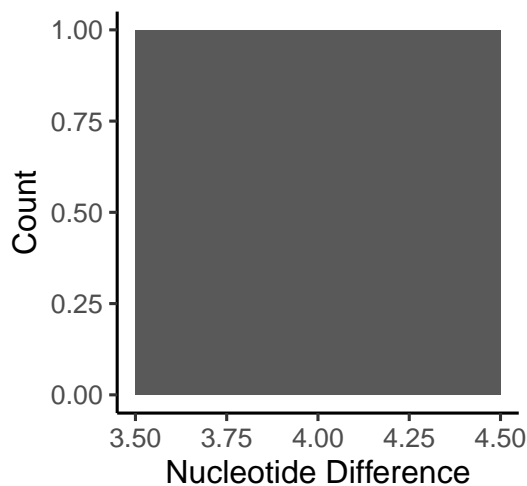
IGHV3-49*05

2 sequences assigned
No exact matches.



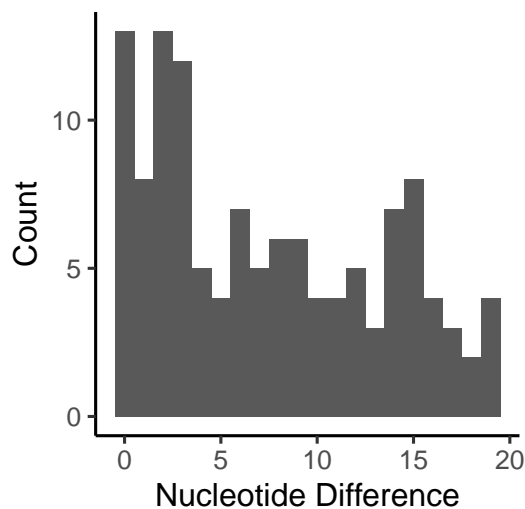
IGHV3-43*02

1 sequences assigned
No exact matches.



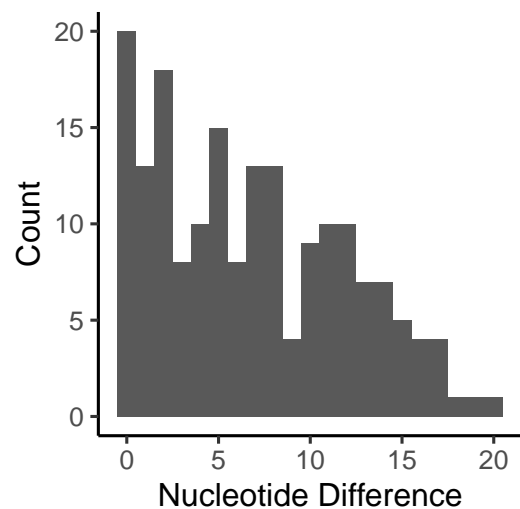
IGHV3-48*04

128 sequences assigned
13 (10.2%) exact matches, in which:
13 unique CDR3
4 unique J



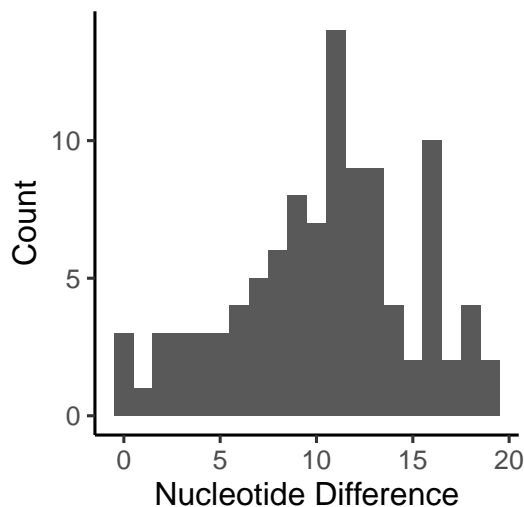
IGHV3-53*01

183 sequences assigned
20 (10.9%) exact matches, in which:
19 unique CDR3
3 unique J



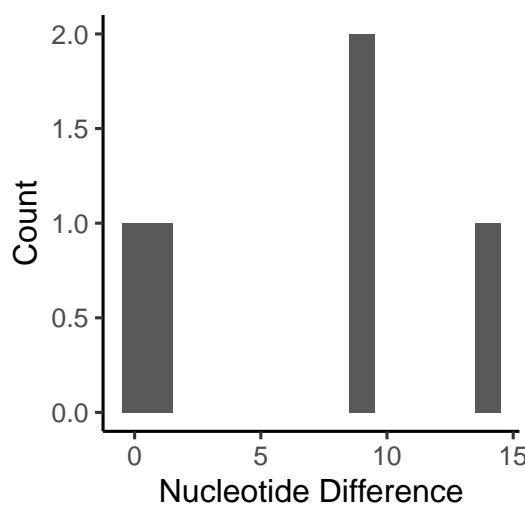
IGHV3-48*01

105 sequences assigned
3 (2.9%) exact matches, in which:
3 unique CDR3
1 unique J



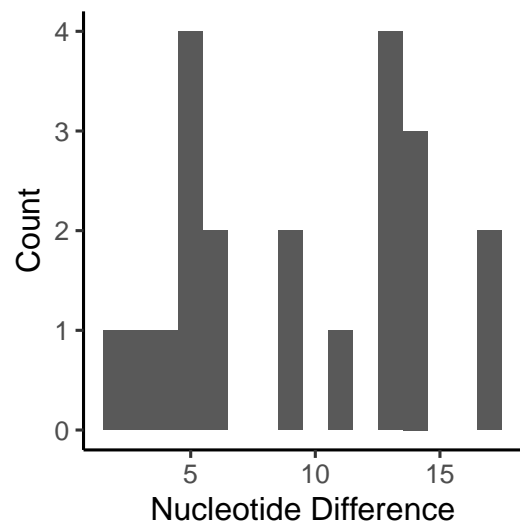
IGHV3-49*03

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



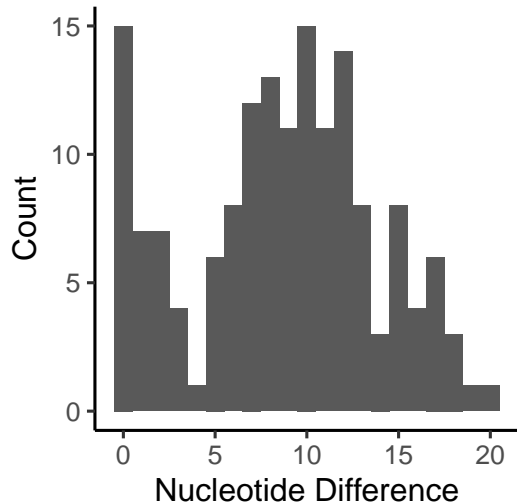
IGHV3-64*04

21 sequences assigned
No exact matches.



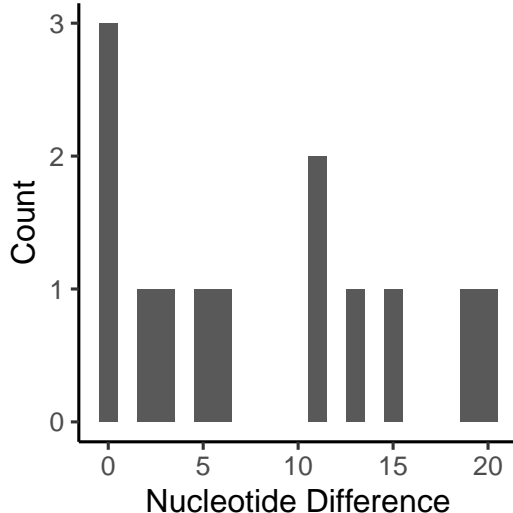
IGHV3-66*01

164 sequences assigned
15 (9.1%) exact matches, in which:
15 unique CDR3
4 unique J



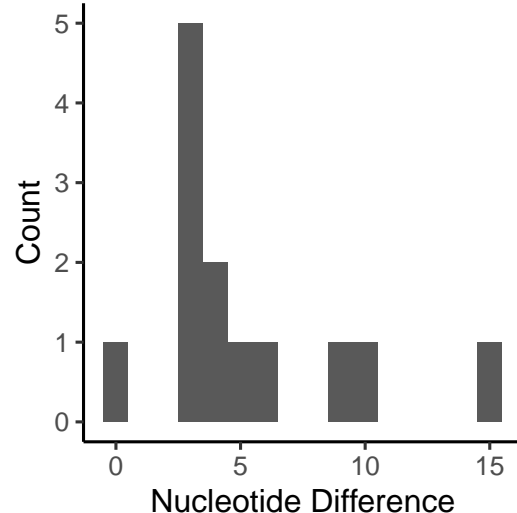
IGHV3-73*01

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



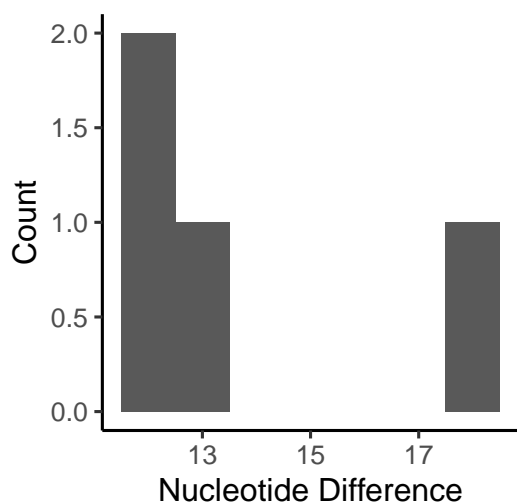
IGHV3-64D*09

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



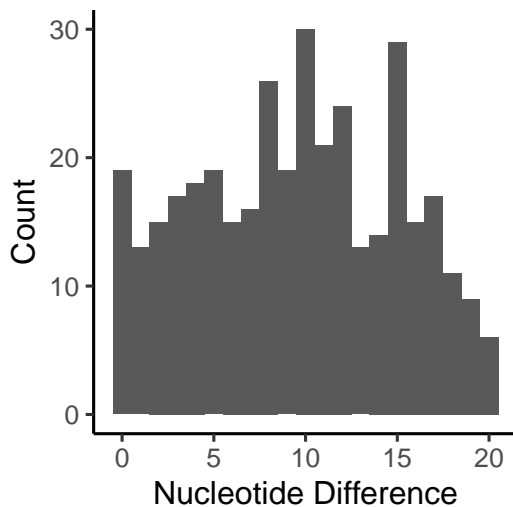
IGHV3-69-1*01

4 sequences assigned
No exact matches.



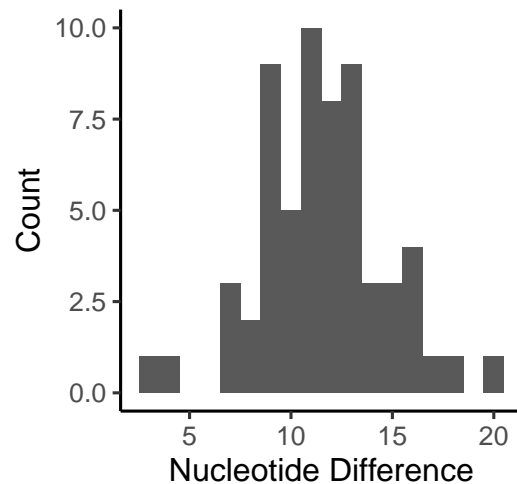
IGHV3-74*01

383 sequences assigned
19 (5%) exact matches, in which:
18 unique CDR3
3 unique J



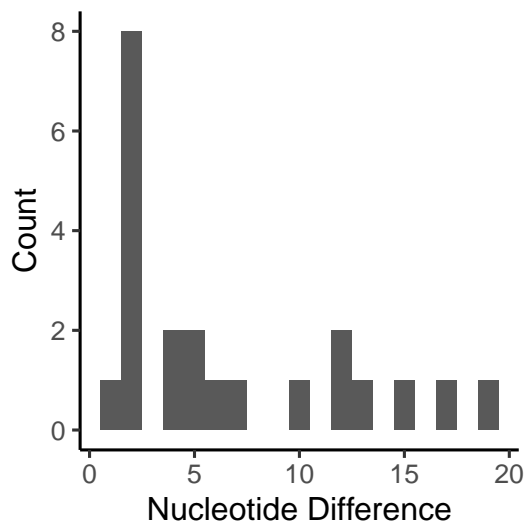
IGHV3-NL1*01

64 sequences assigned
No exact matches.



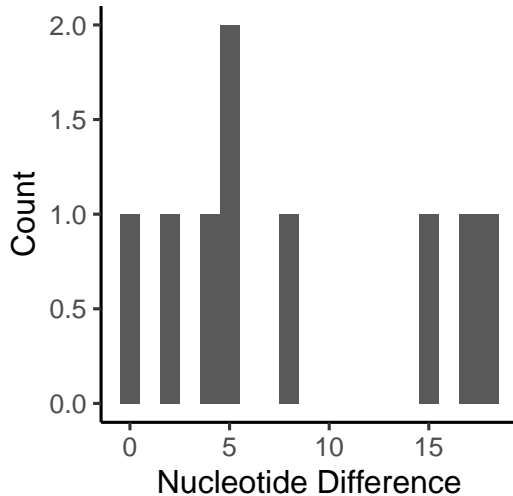
IGHV3-72*01

23 sequences assigned
No exact matches.



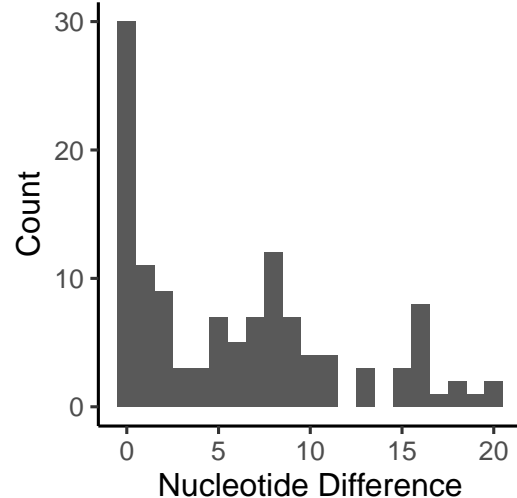
IGHV3-64D*06

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



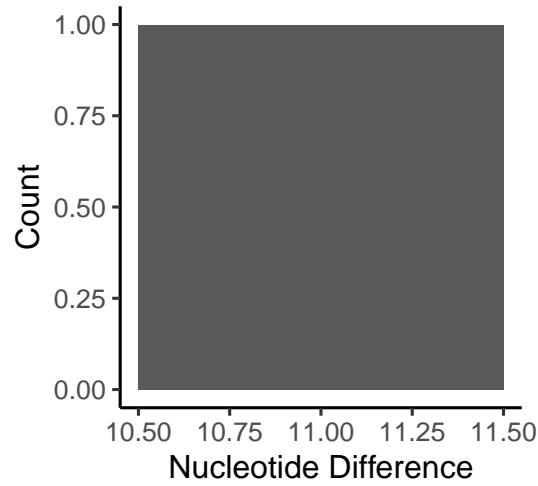
IGHV4-4*02

132 sequences assigned
30 (22.7%) exact matches, in which:
29 unique CDR3
4 unique J



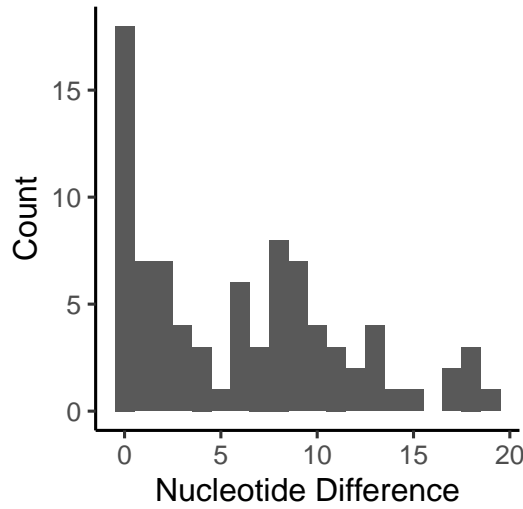
IGHV4-28*05

1 sequences assigned
No exact matches.



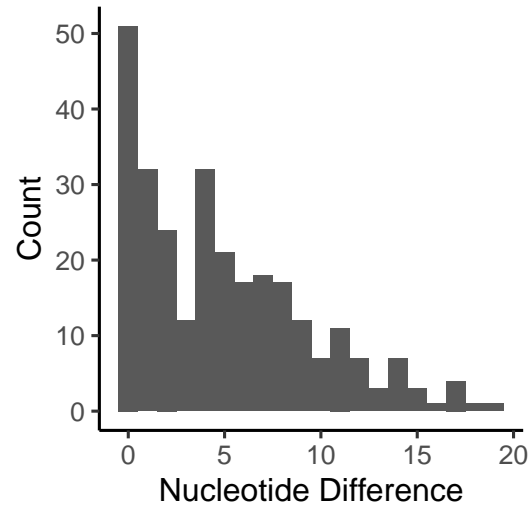
IGHV4-30-4*07

86 sequences assigned
18 (20.9%) exact matches, in which:
18 unique CDR3
4 unique J



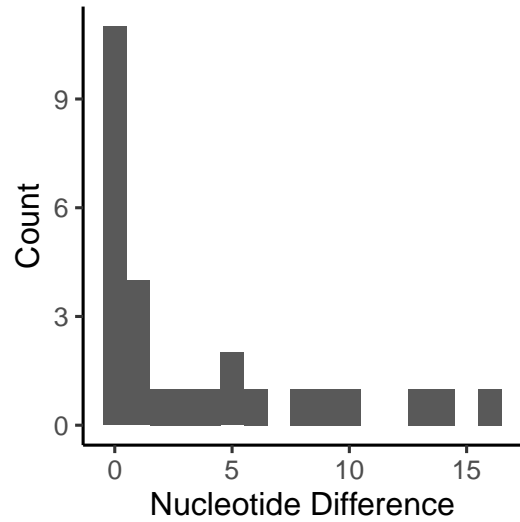
IGHV4-39*01

289 sequences assigned
51 (17.6%) exact matches, in which:
51 unique CDR3
5 unique J



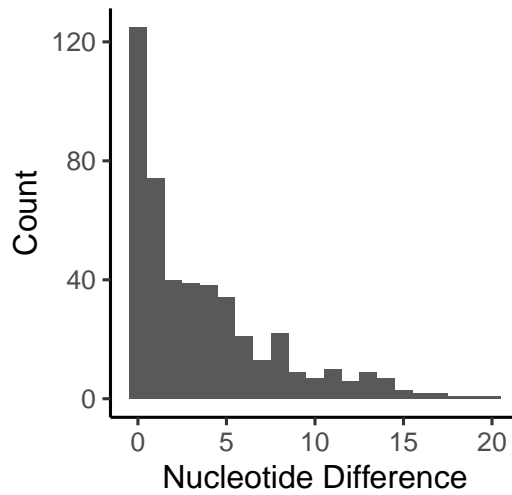
IGHV4-30-2*01

27 sequences assigned
11 (40.7%) exact matches, in which:
11 unique CDR3
3 unique J



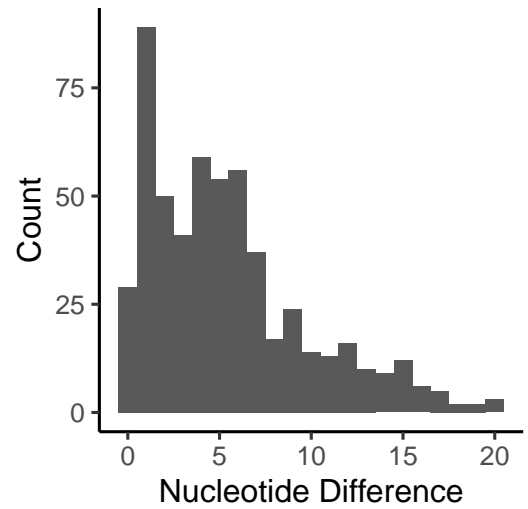
IGHV4-34*01

477 sequences assigned
125 (26.2%) exact matches, in which:
123 unique CDR3
5 unique J



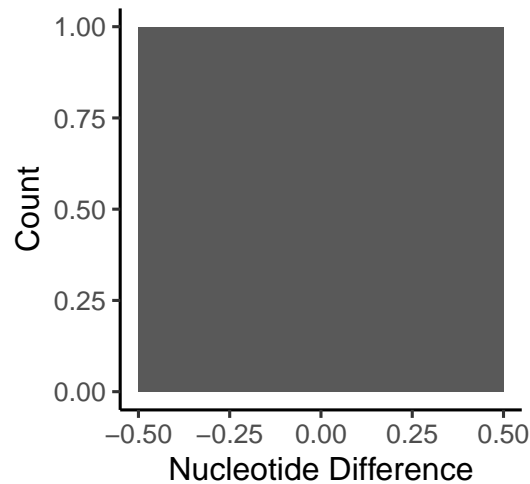
IGHV4-39*07

567 sequences assigned
29 (5.1%) exact matches, in which:
29 unique CDR3
4 unique J



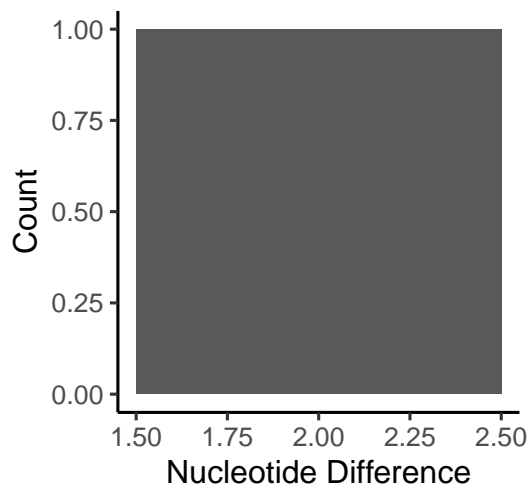
IGHV4-30-2*02

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



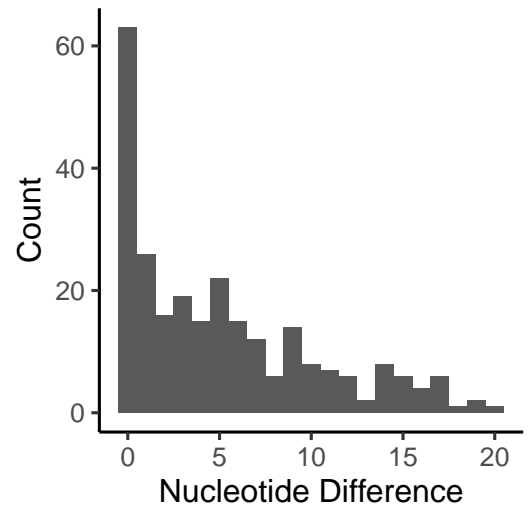
IGHV4-38-2*02

2 sequences assigned
No exact matches.



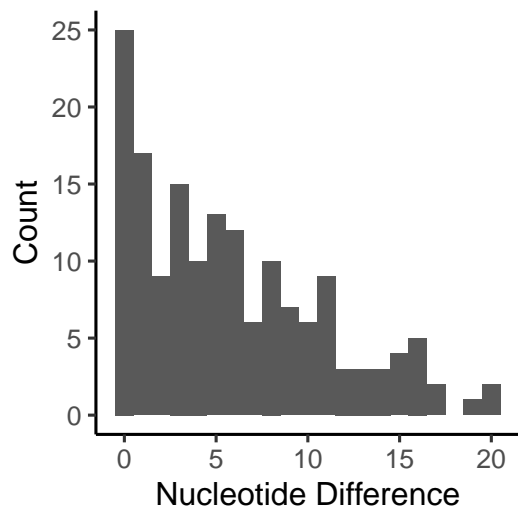
IGHV4-59*01

261 sequences assigned
63 (24.1%) exact matches, in which:
62 unique CDR3
6 unique J



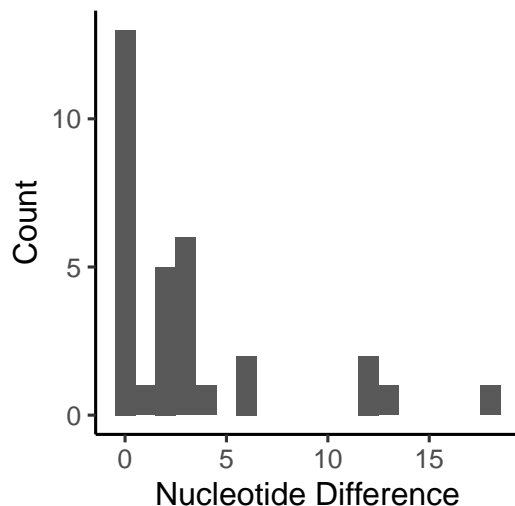
IGHV4-59*08

175 sequences assigned
25 (14.3%) exact matches, in which:
25 unique CDR3
4 unique J



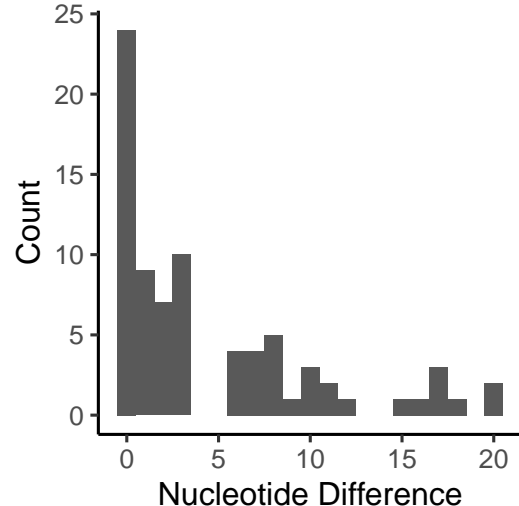
IGHV5-10-1*01

33 sequences assigned
13 (39.4%) exact matches, in which:
13 unique CDR3
5 unique J



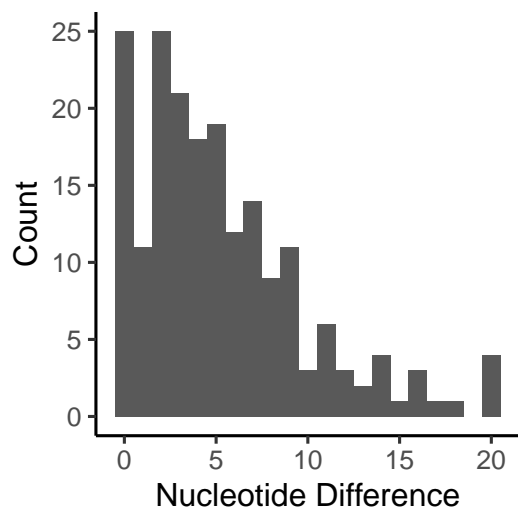
IGHV6-1*01

79 sequences assigned
24 (30.4%) exact matches, in which:
18 unique CDR3
6 unique J



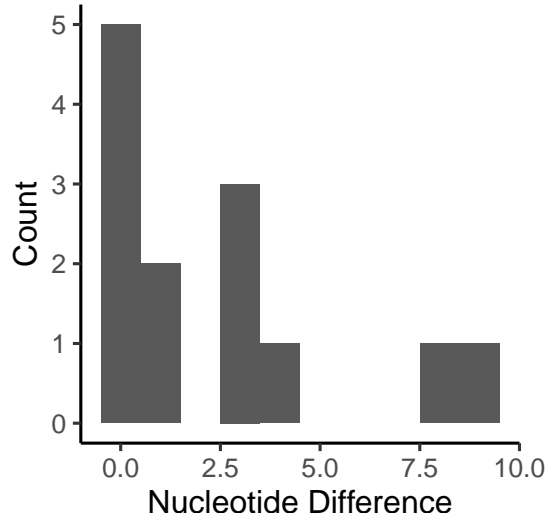
IGHV4-59*12

196 sequences assigned
25 (12.8%) exact matches, in which:
25 unique CDR3
4 unique J



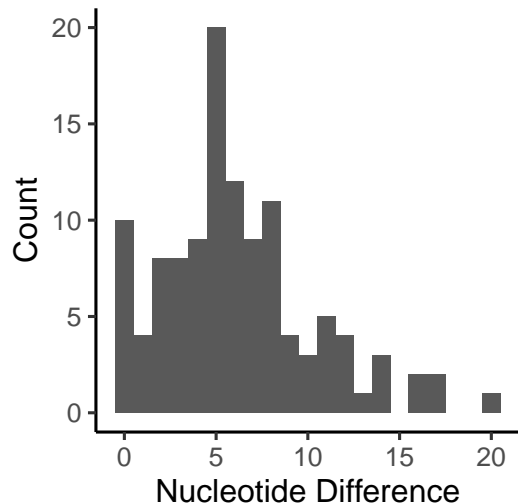
IGHV5-10-1*03

13 sequences assigned
5 (38.5%) exact matches, in which:
5 unique CDR3
3 unique J



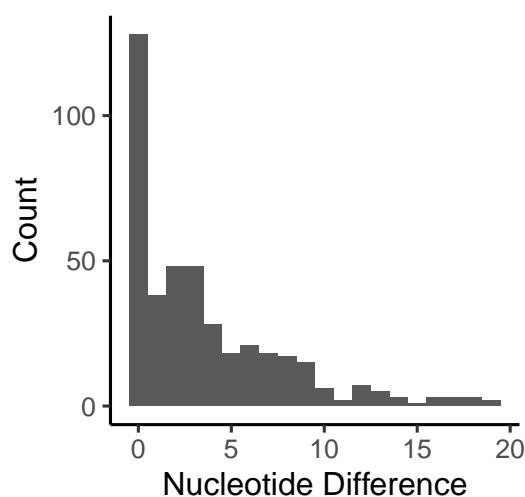
IGHV4-61*01

117 sequences assigned
10 (8.5%) exact matches, in which:
9 unique CDR3
3 unique J



IGHV5-51*01

428 sequences assigned
128 (29.9%) exact matches, in which:
115 unique CDR3
5 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.