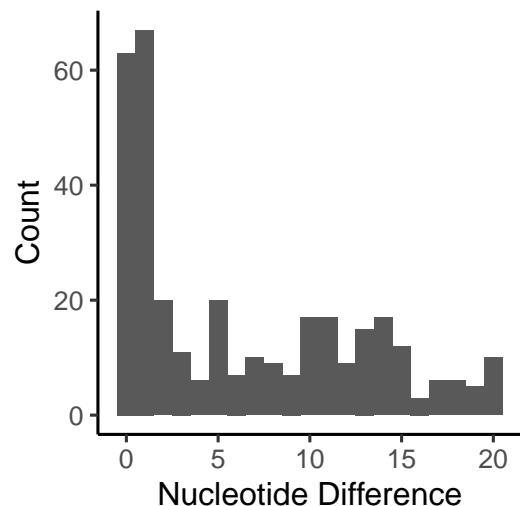


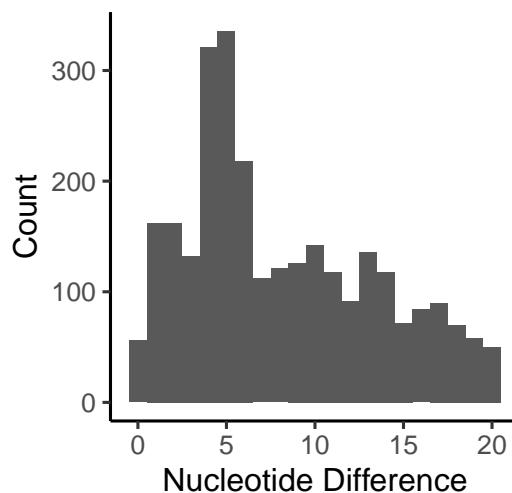
IGHV1-2*04

360 sequences assigned
63 (17.5%) exact matches, in which:
51 unique CDR3
4 unique J



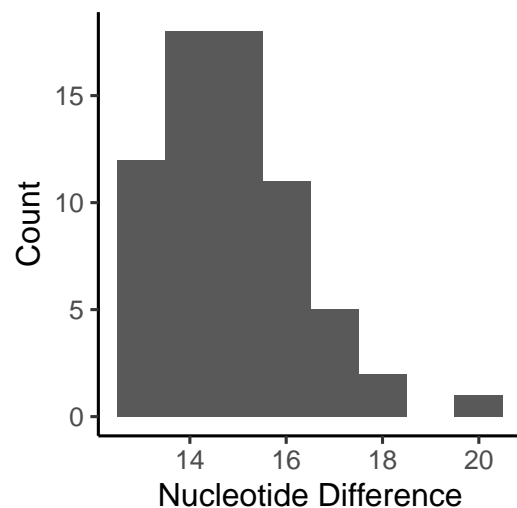
IGHV1-8*01

3546 sequences assigned
56 (1.6%) exact matches, in which:
39 unique CDR3
5 unique J



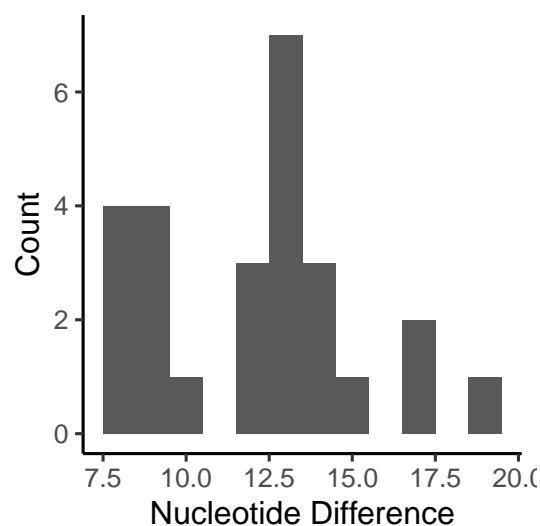
IGHV1-45*02

94 sequences assigned
No exact matches.



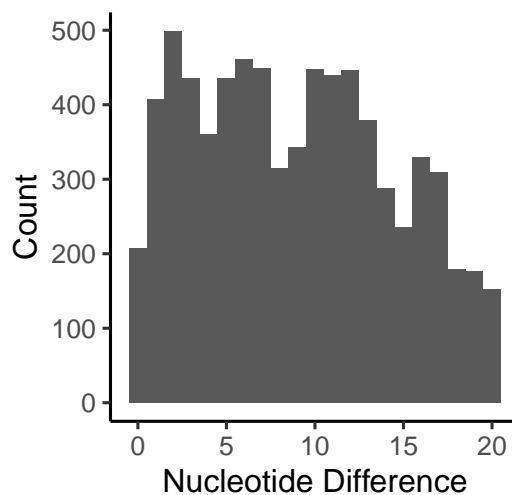
IGHV1-3*04

35 sequences assigned
No exact matches.



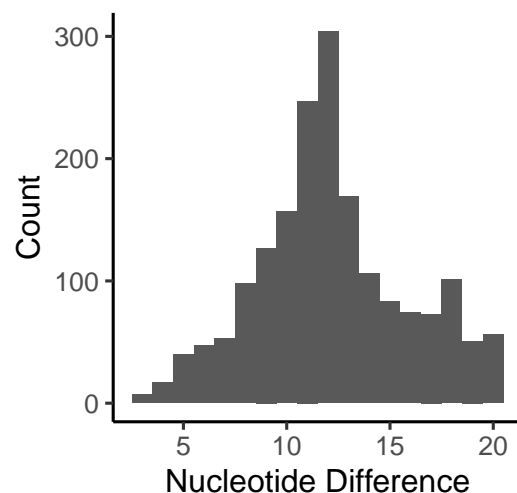
IGHV1-18*01

7896 sequences assigned
208 (2.6%) exact matches, in which:
136 unique CDR3
4 unique J



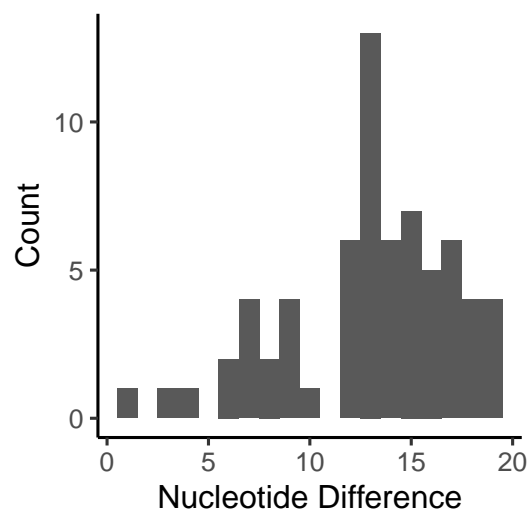
IGHV1-46*01

2117 sequences assigned
No exact matches.



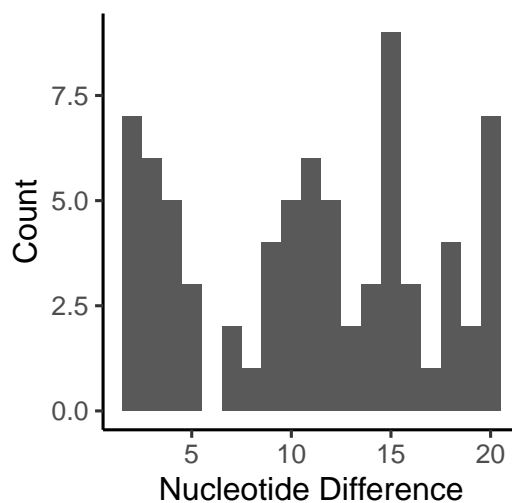
IGHV1-3*01_05

81 sequences assigned
No exact matches.



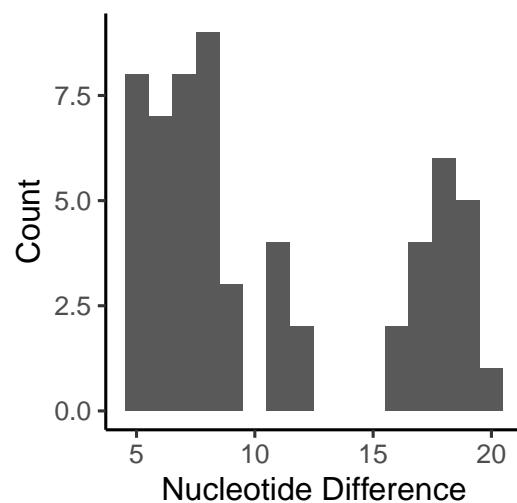
IGHV1-24*01

136 sequences assigned
No exact matches.



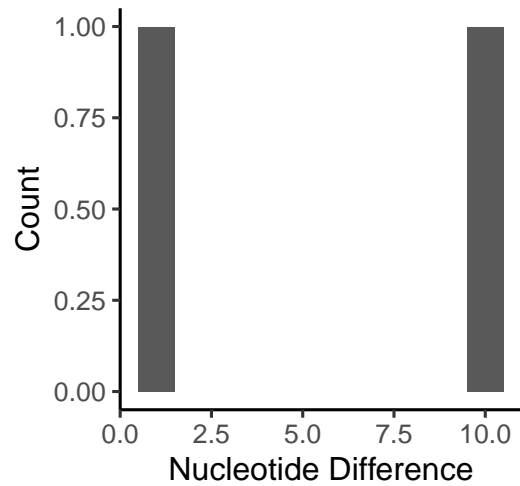
IGHV1-58*01_03

59 sequences assigned
No exact matches.



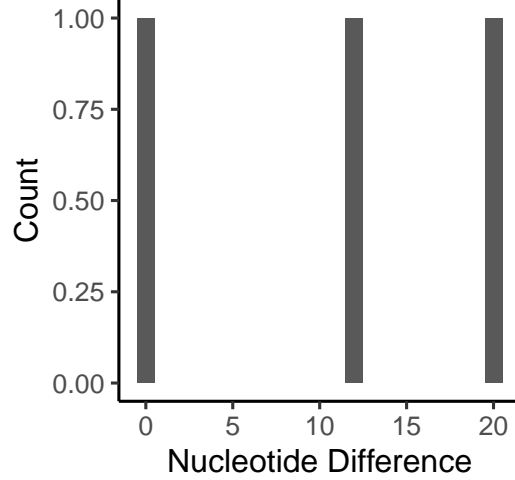
IGHV2-5*01

3 sequences assigned
No exact matches.



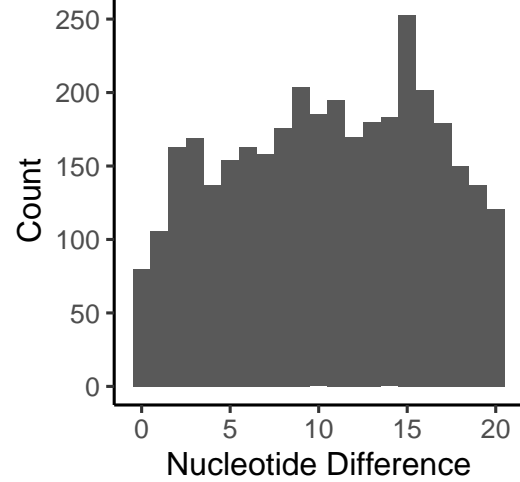
IGHV2-70*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



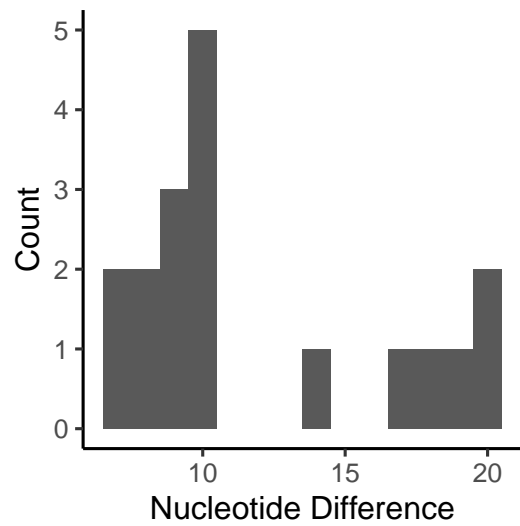
IGHV3-7*03

3848 sequences assigned
80 (2.1%) exact matches, in which:
57 unique CDR3
6 unique J



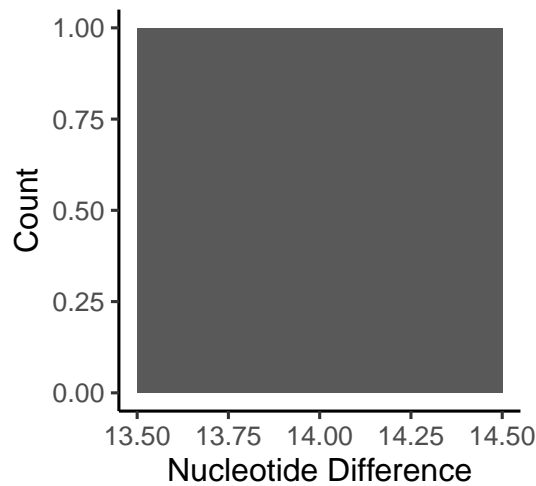
IGHV2-5*02

20 sequences assigned
No exact matches.



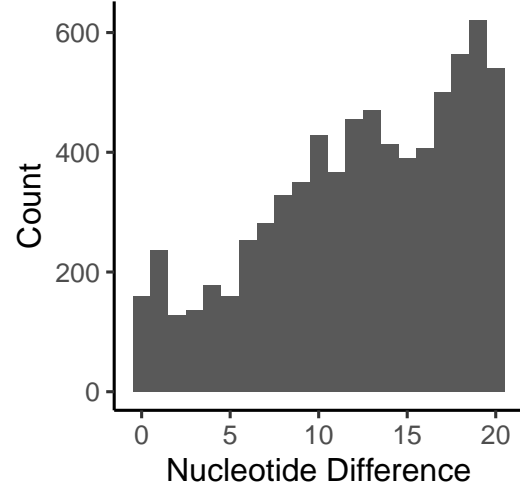
IGHV2-70*13

1 sequences assigned
No exact matches.



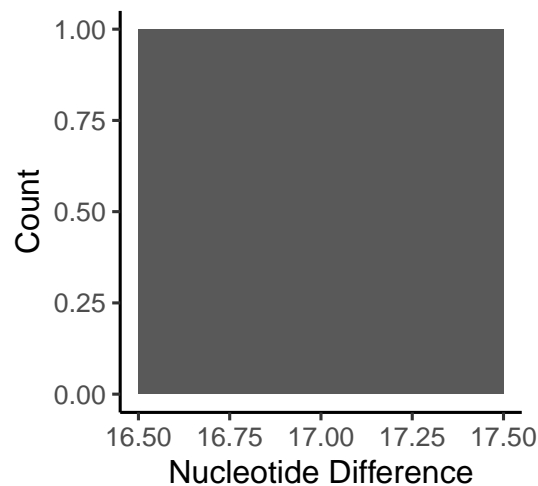
IGHV3-9*01

9087 sequences assigned
160 (1.8%) exact matches, in which:
113 unique CDR3
6 unique J



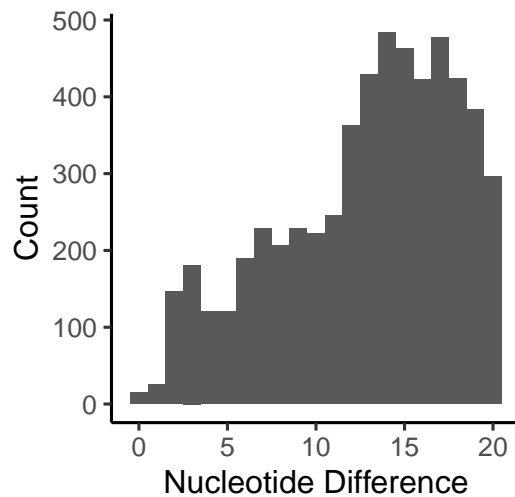
IGHV2-26*03

1 sequences assigned
No exact matches.



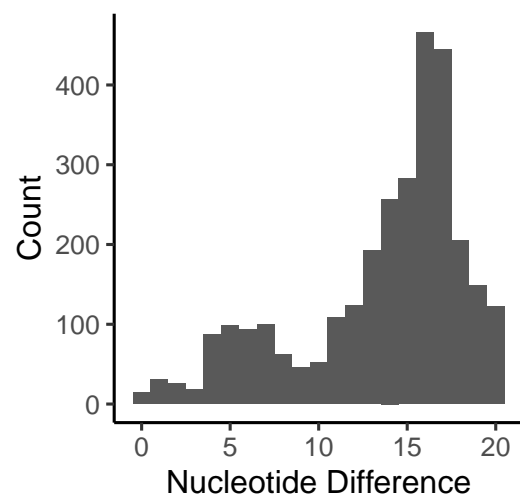
IGHV3-7*01

6552 sequences assigned
15 (0.2%) exact matches, in which:
14 unique CDR3
2 unique J



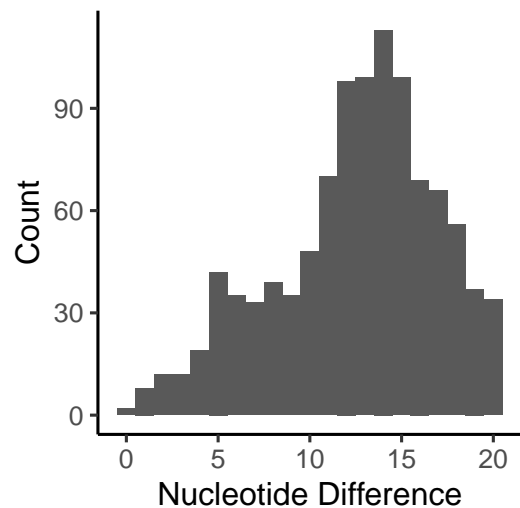
IGHV3-11*01

3297 sequences assigned
14 (0.4%) exact matches, in which:
13 unique CDR3
4 unique J



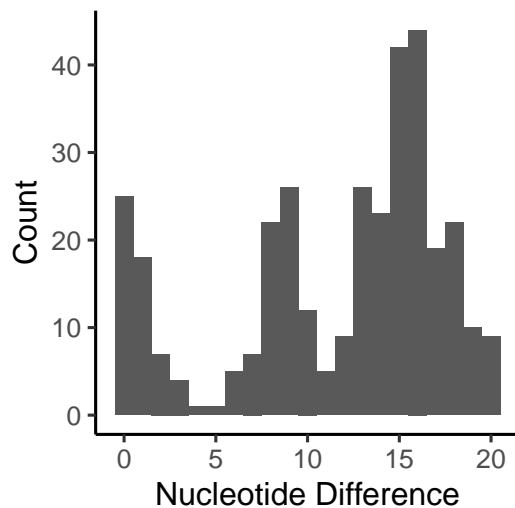
IGHV3-11*04

1172 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



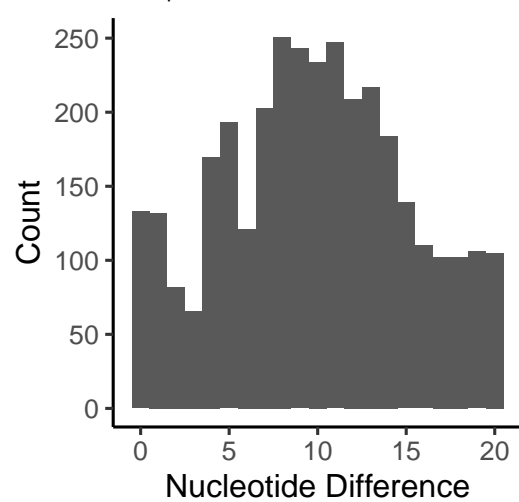
IGHV3-15*01_02

437 sequences assigned
25 (5.7%) exact matches, in which:
15 unique CDR3
3 unique J



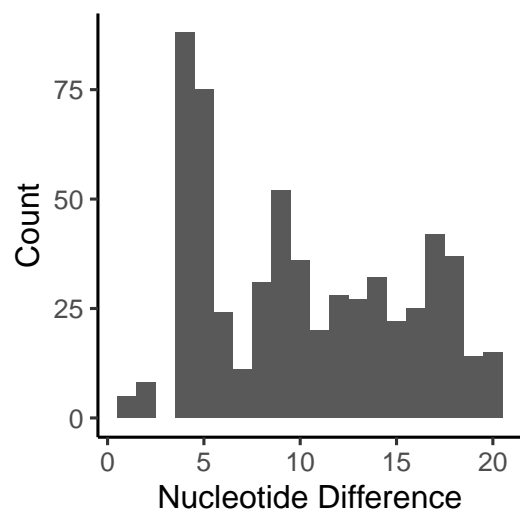
IGHV3-21*01_02

4044 sequences assigned
133 (3.3%) exact matches, in which:
99 unique CDR3
6 unique J



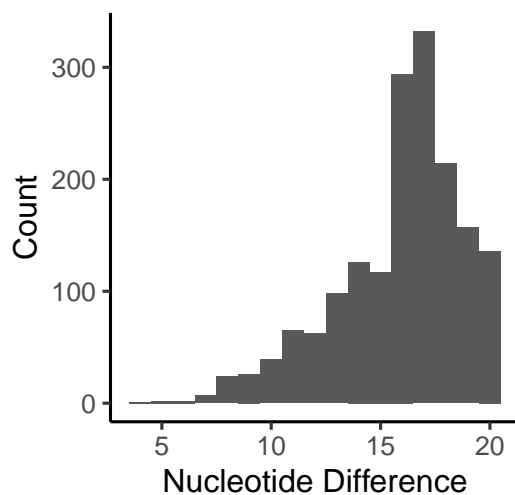
IGHV3-13*01

747 sequences assigned
No exact matches.



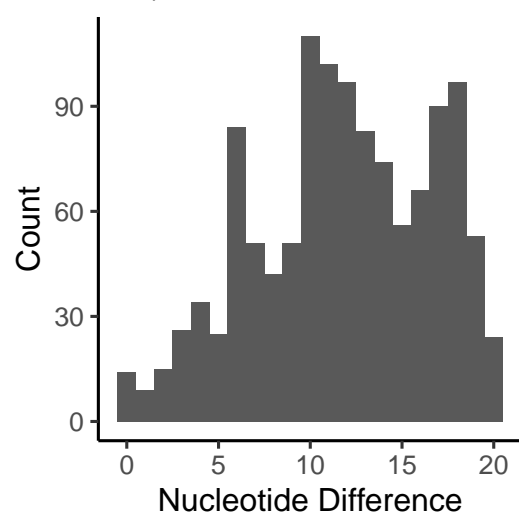
IGHV3-20*03_04

2258 sequences assigned
No exact matches.



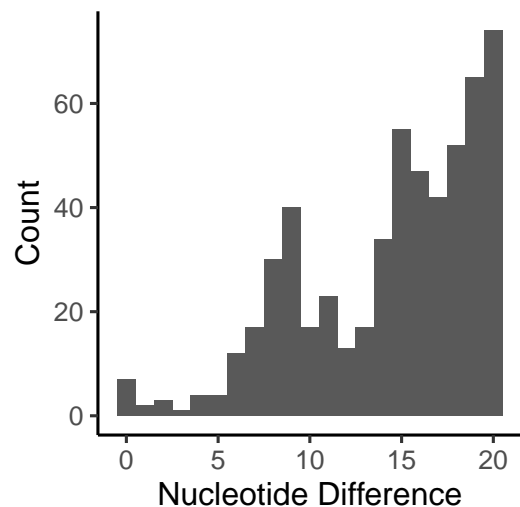
IGHV3-30*01

1357 sequences assigned
14 (1%) exact matches, in which:
12 unique CDR3
3 unique J



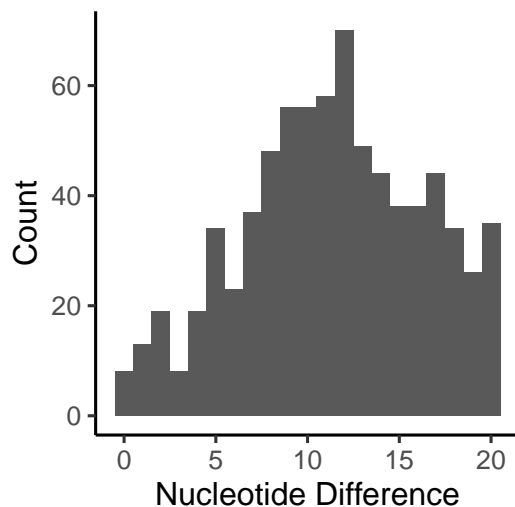
IGHV3-15*07

1175 sequences assigned
7 (0.6%) exact matches, in which:
4 unique CDR3
0 unique J



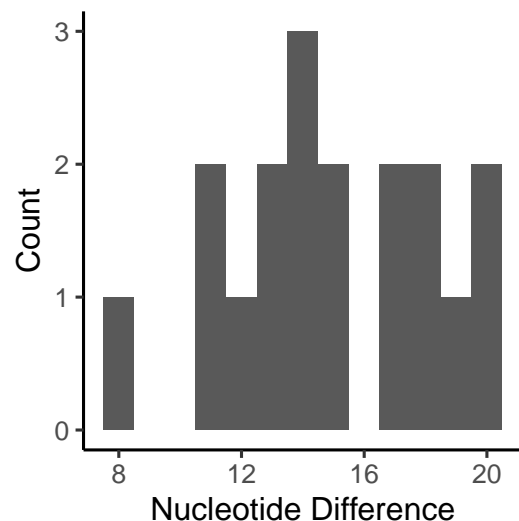
IGHV3-21*04

1004 sequences assigned
8 (0.8%) exact matches, in which:
8 unique CDR3
2 unique J



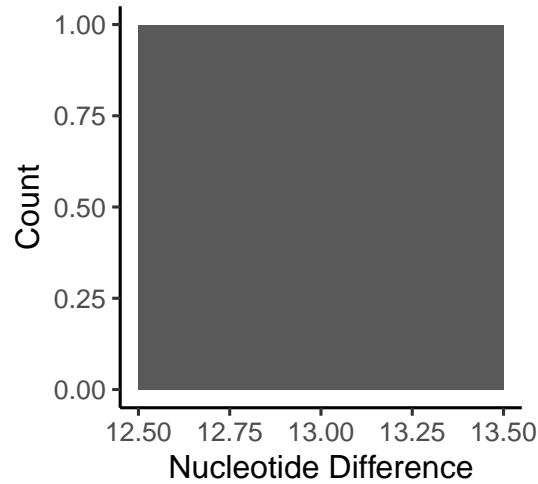
IGHV3-30-5*01

37 sequences assigned
No exact matches.



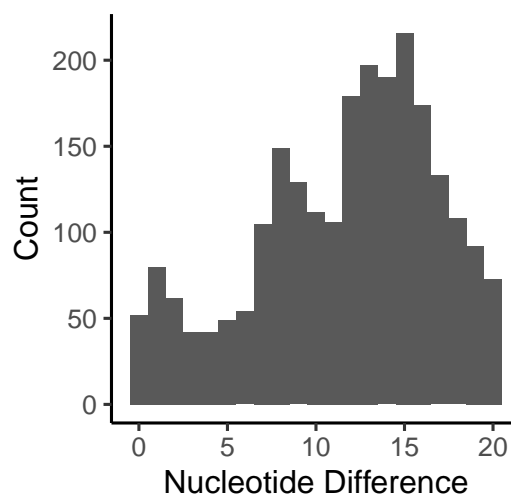
IGHV3-30-3*01

2 sequences assigned
No exact matches.



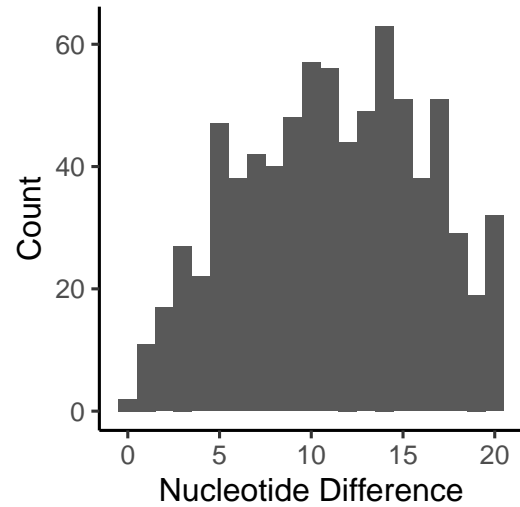
IGHV3-33*01

2967 sequences assigned
52 (1.8%) exact matches, in which:
34 unique CDR3
5 unique J



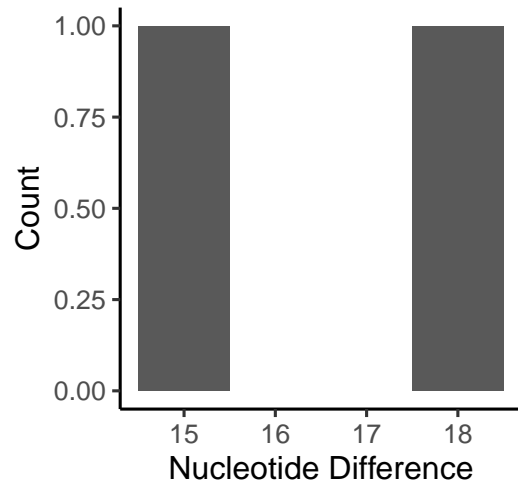
IGHV3-48*01

869 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
2 unique J



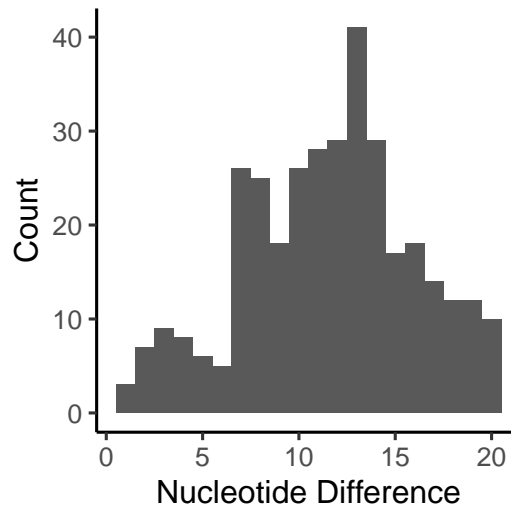
IGHV3-30-5*02

13 sequences assigned
No exact matches.



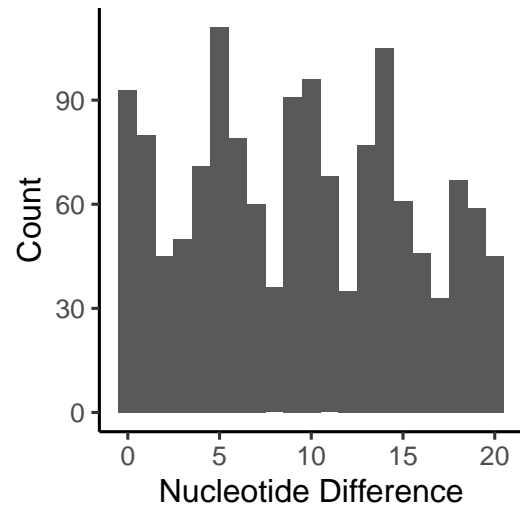
IGHV3-33*06

392 sequences assigned
No exact matches.



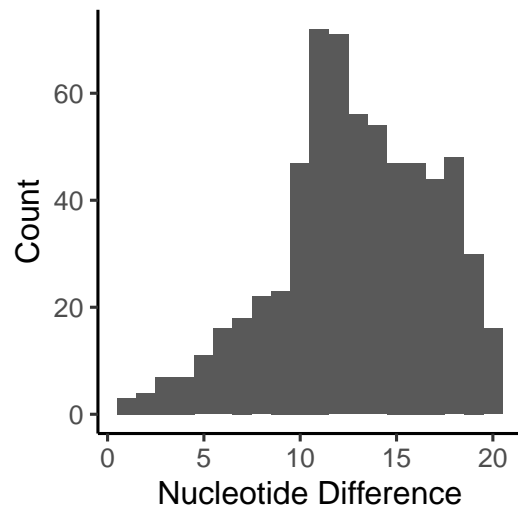
IGHV3-48*02

1484 sequences assigned
93 (6.3%) exact matches, in which:
58 unique CDR3
5 unique J



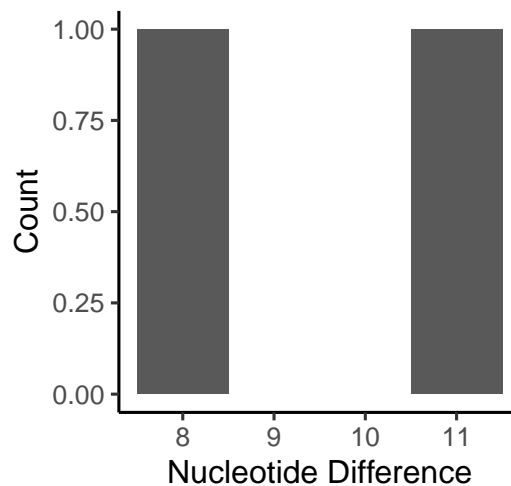
IGHV3-30*07

730 sequences assigned
No exact matches.



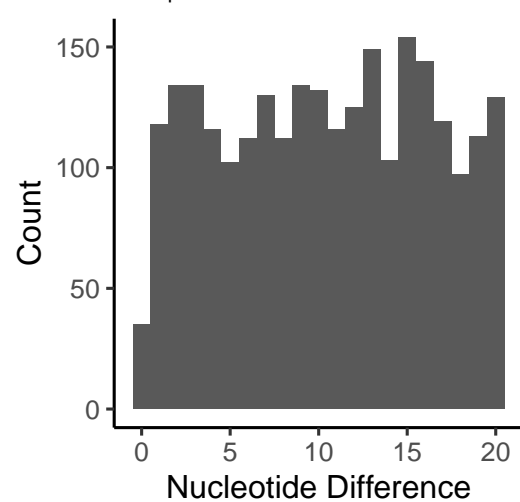
IGHV3-43*01

2 sequences assigned
No exact matches.



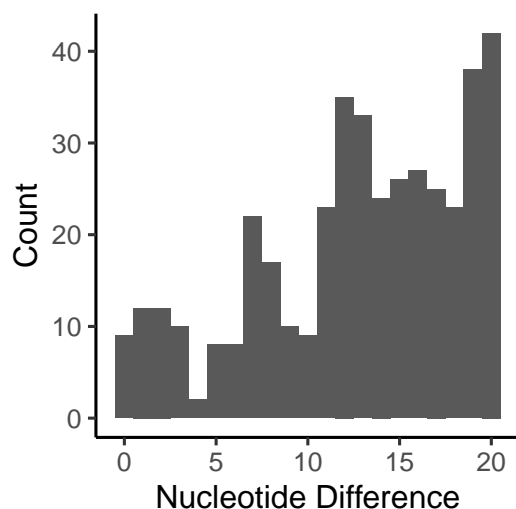
IGHV3-48*03

3881 sequences assigned
35 (0.9%) exact matches, in which:
22 unique CDR3
5 unique J



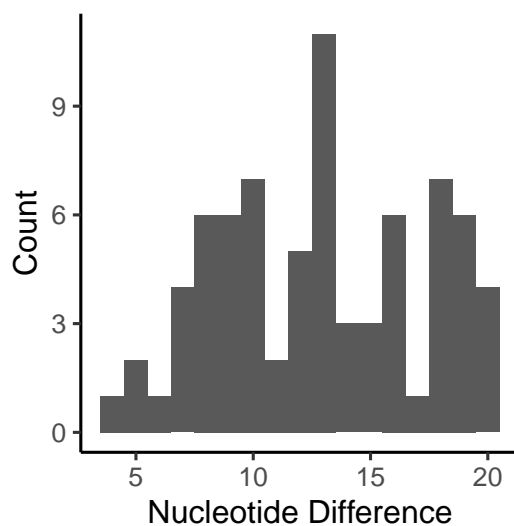
IGHV3-49*04

519 sequences assigned
9 (1.7%) exact matches, in which:
5 unique CDR3
1 unique J



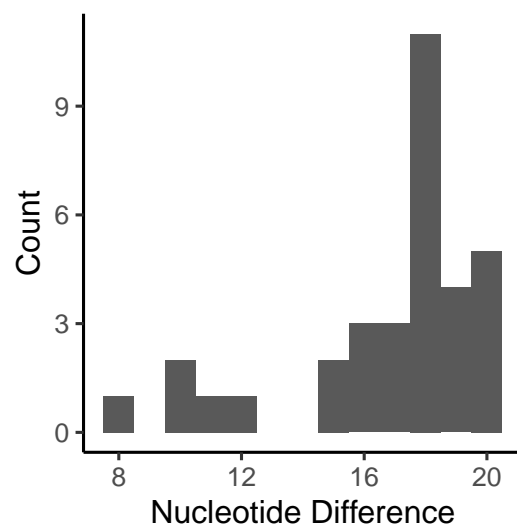
IGHV3-53*05

98 sequences assigned
No exact matches.



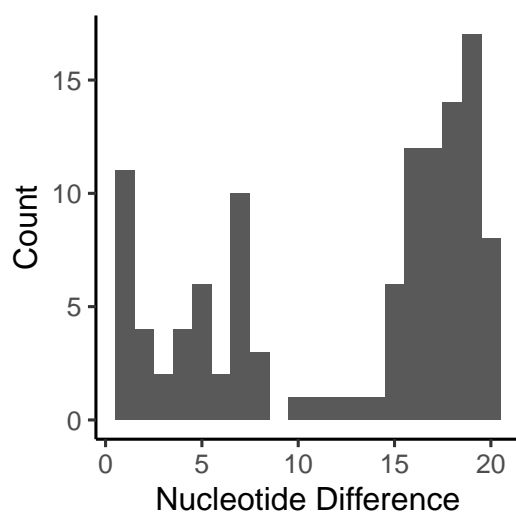
IGHV3-66*01

61 sequences assigned
No exact matches.



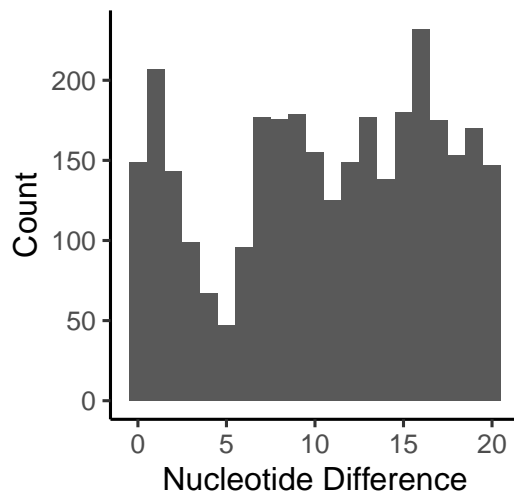
IGHV3-49*03_05

146 sequences assigned
No exact matches.



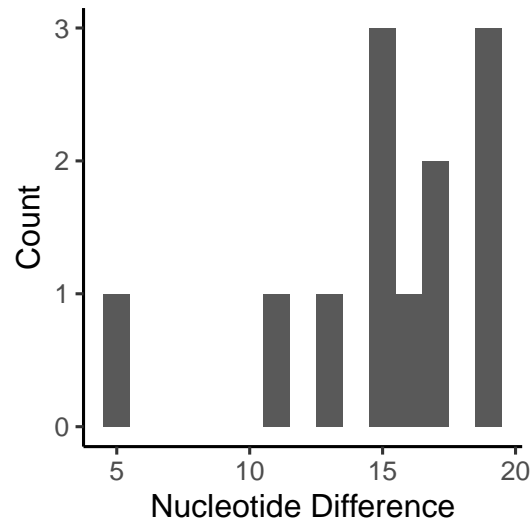
IGHV3-53*01_02

3785 sequences assigned
149 (3.9%) exact matches, in which:
95 unique CDR3
6 unique J



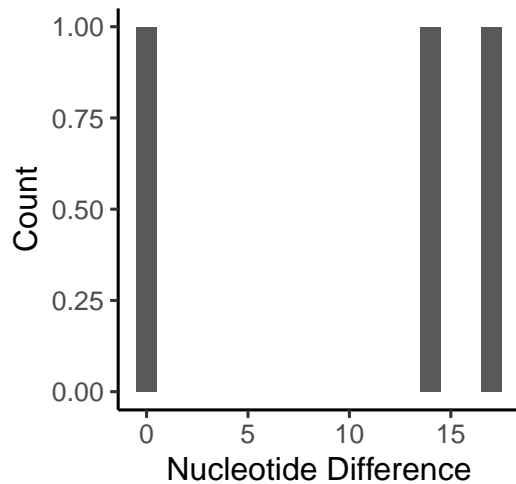
IGHV3-66*02

17 sequences assigned
No exact matches.



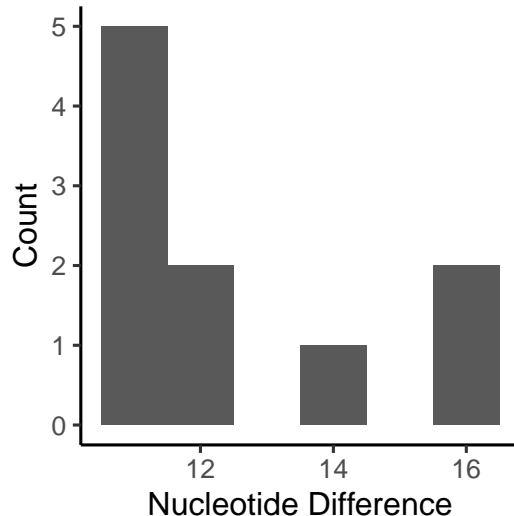
IGHV3-52*01_03

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



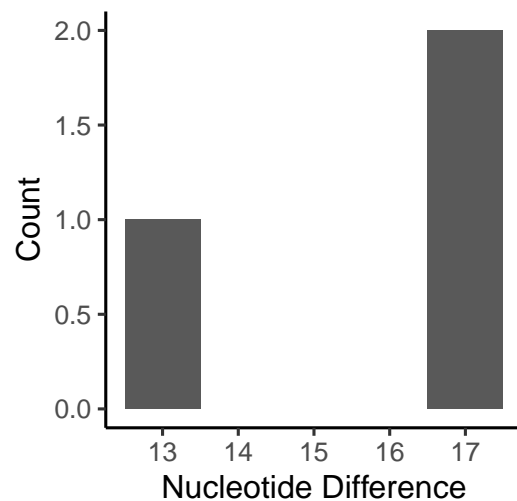
IGHV3-64*02_07

11 sequences assigned
No exact matches.



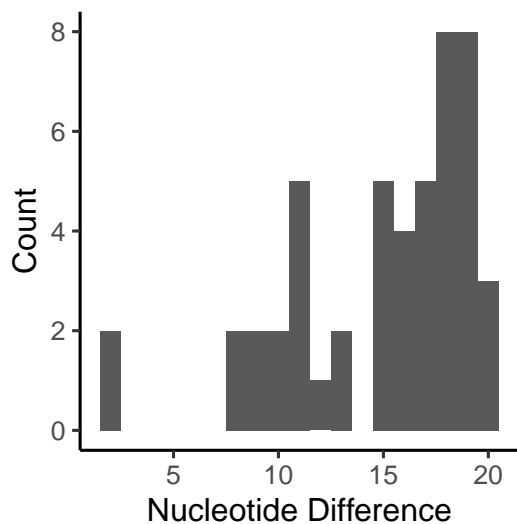
IGHV3-66*03

3 sequences assigned
No exact matches.



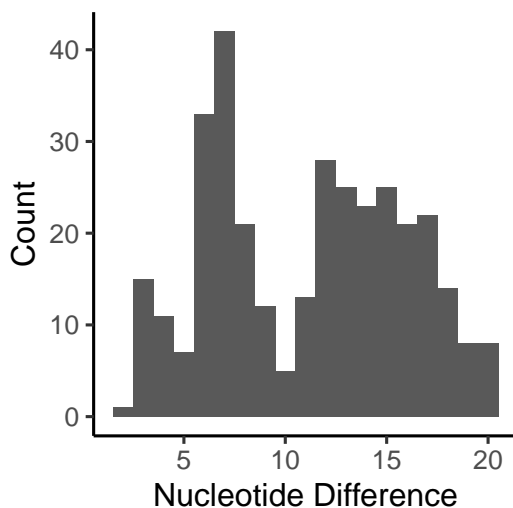
IGHV3-66*04

72 sequences assigned
No exact matches.



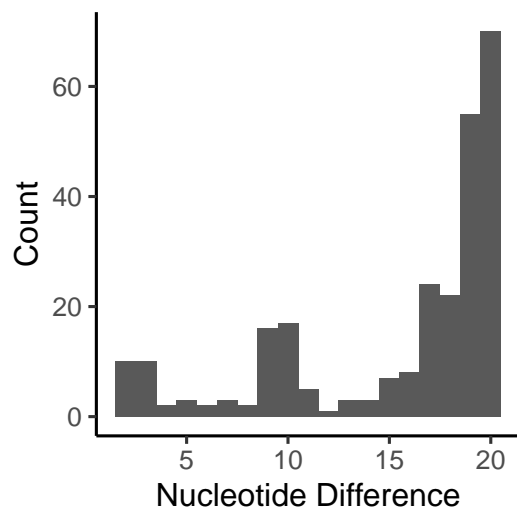
IGHV3-72*01

376 sequences assigned
No exact matches.



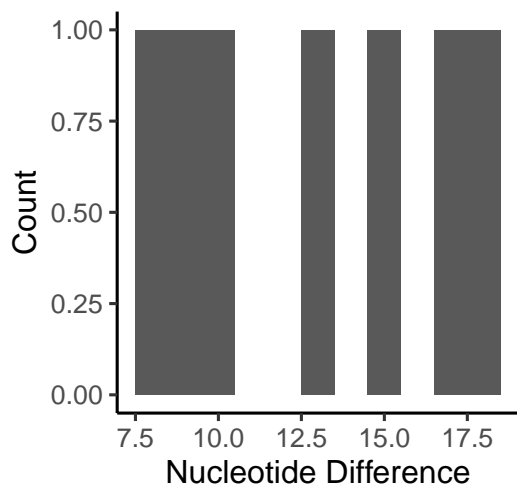
IGHV3-43D*04

511 sequences assigned
No exact matches.



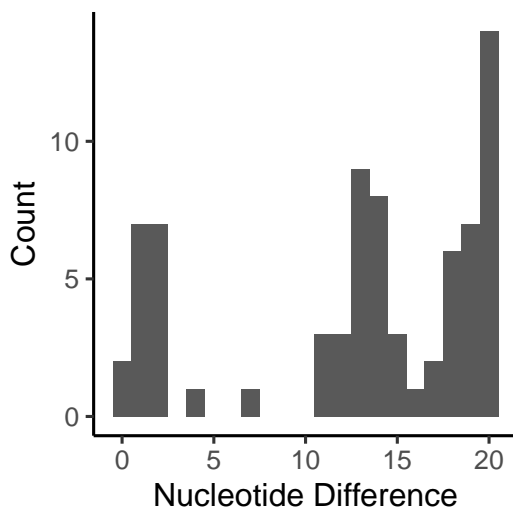
IGHV3-69-1*01

13 sequences assigned
No exact matches.



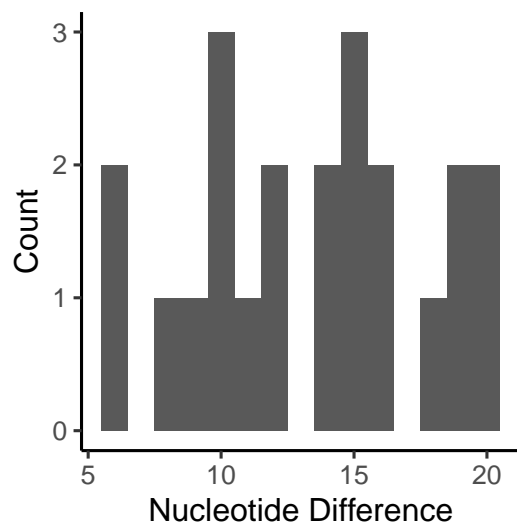
IGHV3-73*01_02

142 sequences assigned
2 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



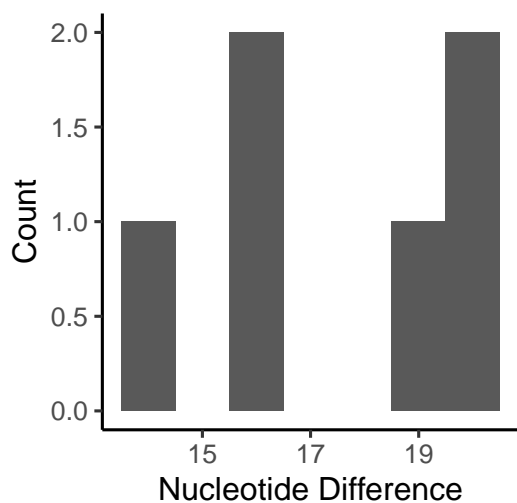
IGHV3-NL1*01

34 sequences assigned
No exact matches.



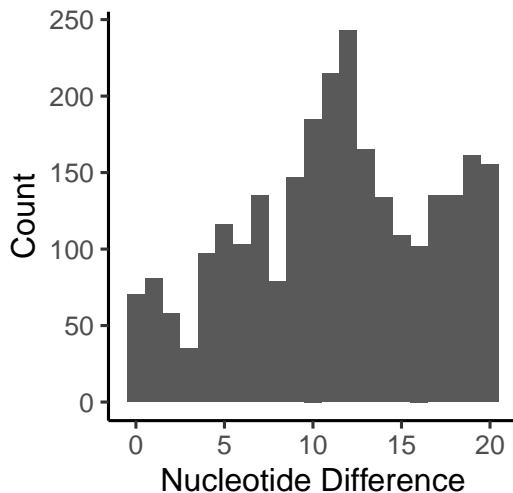
IGHV3-69-1*02

12 sequences assigned
No exact matches.



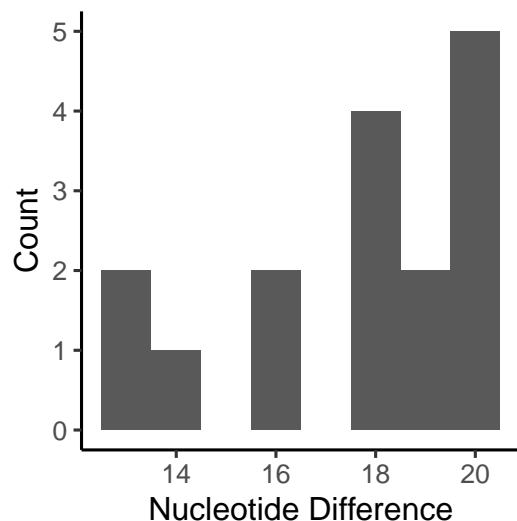
IGHV3-74*01_02

4040 sequences assigned
70 (1.7%) exact matches, in which:
45 unique CDR3
5 unique J



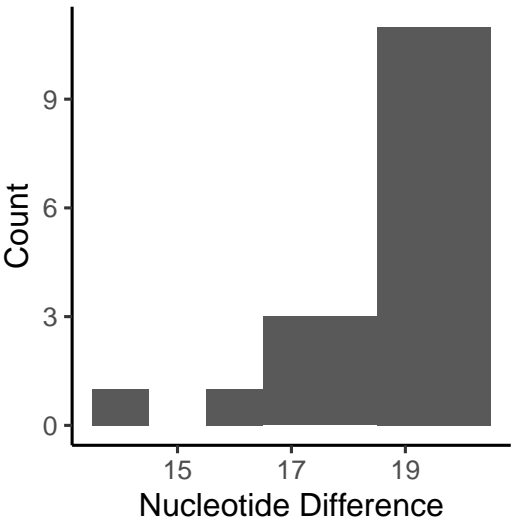
IGHV4-28*03

346 sequences assigned
No exact matches.



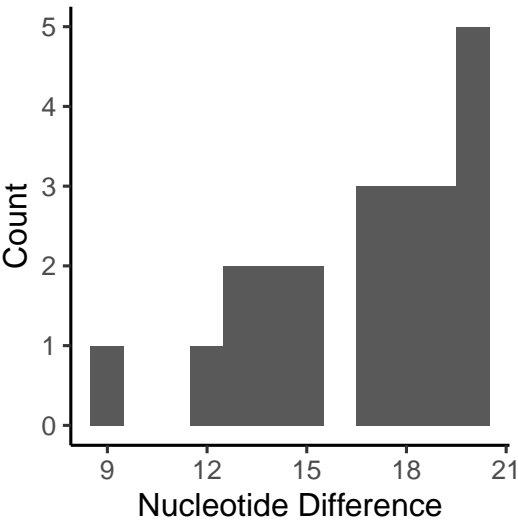
IGHV4-28*06

110 sequences assigned
No exact matches.



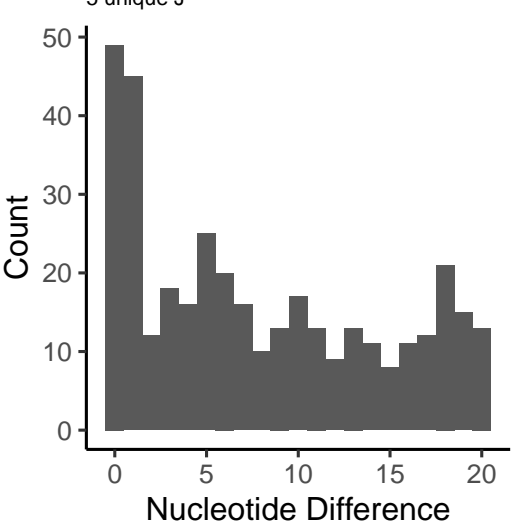
IGHV4-30-2*03

49 sequences assigned
No exact matches.



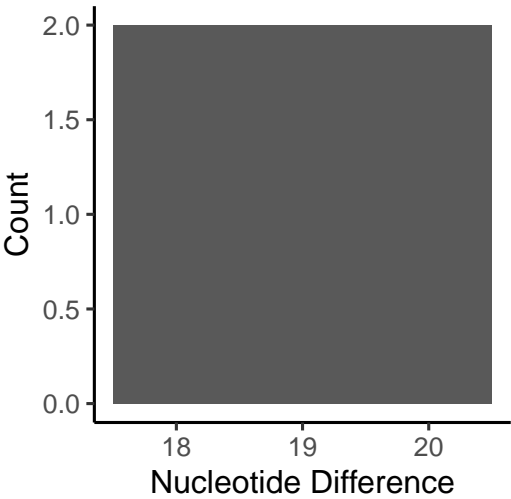
IGHV4-31*01

462 sequences assigned
49 (10.6%) exact matches, in which:
31 unique CDR3
5 unique J



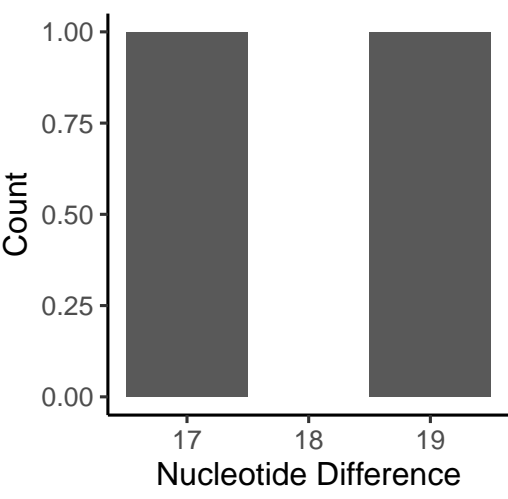
IGHV4-30-4*01

16 sequences assigned
No exact matches.



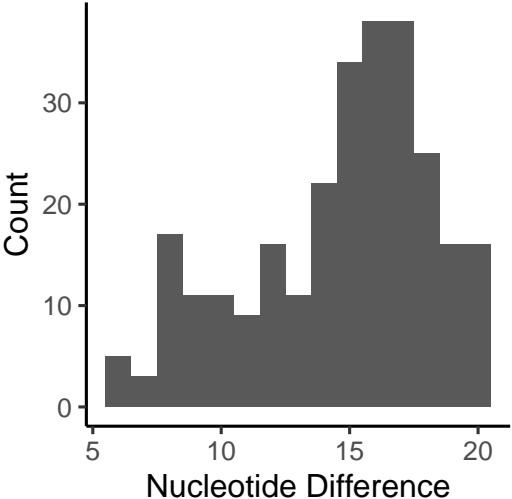
IGHV4-30-2*04

5 sequences assigned
No exact matches.



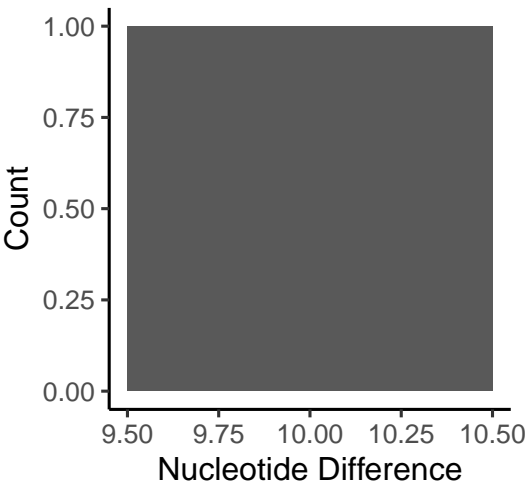
IGHV4-31*03_04

328 sequences assigned
No exact matches.



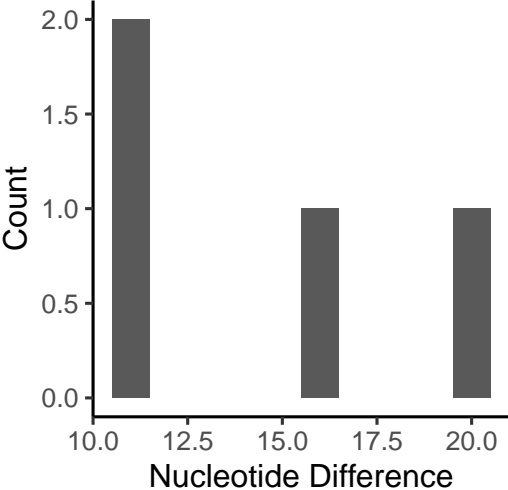
IGHV4-30-2*01

3 sequences assigned
No exact matches.



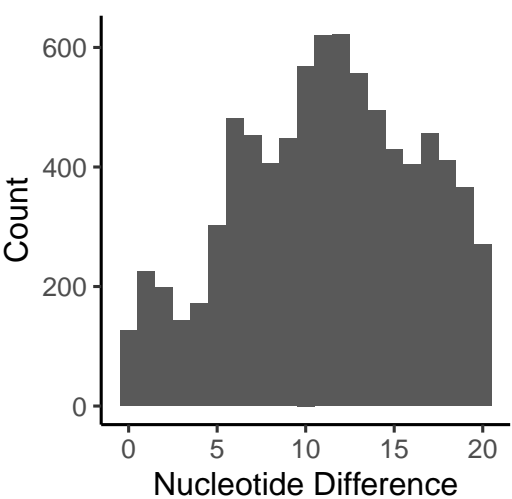
IGHV4-30-4*08

7 sequences assigned
No exact matches.



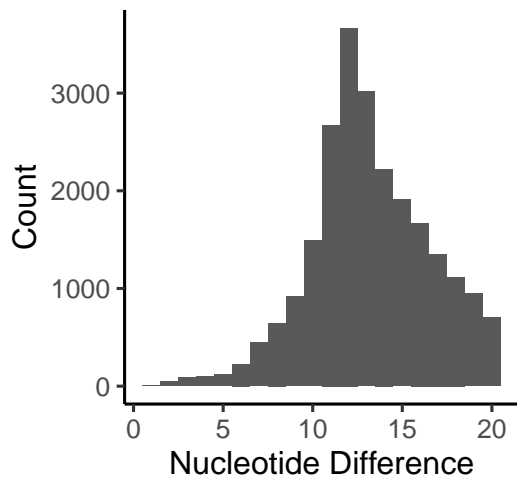
IGHV4-34*01_02

10801 sequences assigned
127 (1.2%) exact matches, in which:
93 unique CDR3
6 unique J



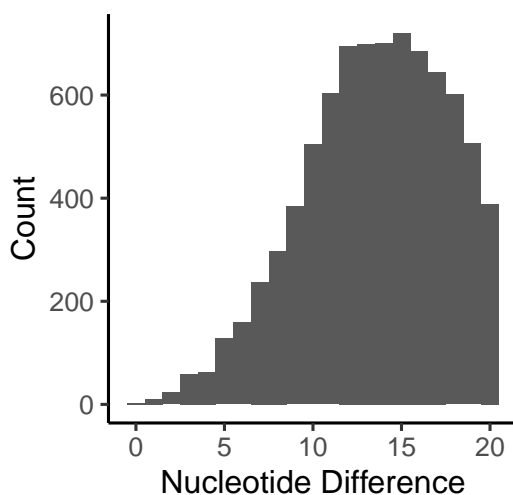
IGHV4-38-2*01

27471 sequences assigned
No exact matches.



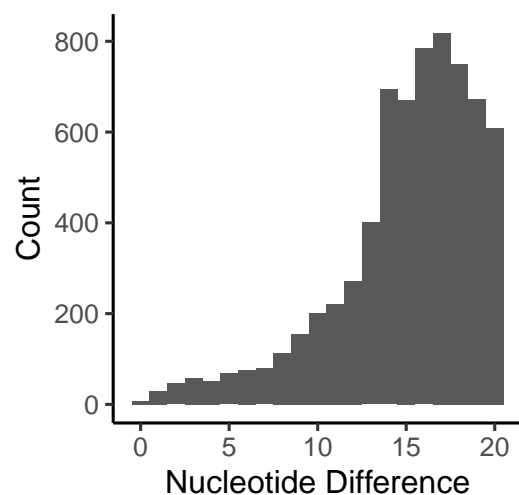
IGHV4-39*07

9426 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
2 unique J



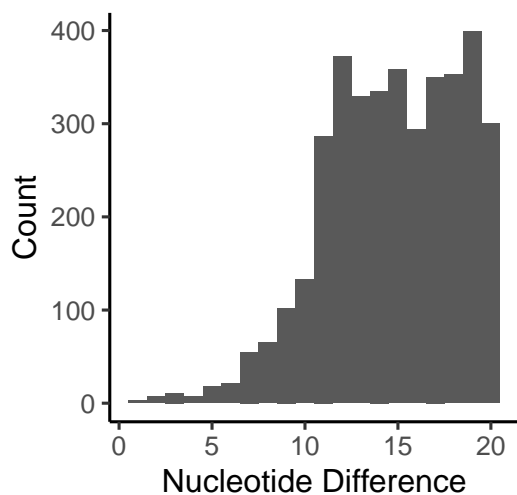
IGHV4-59*08

9085 sequences assigned
7 (0.1%) exact matches, in which:
7 unique CDR3
3 unique J



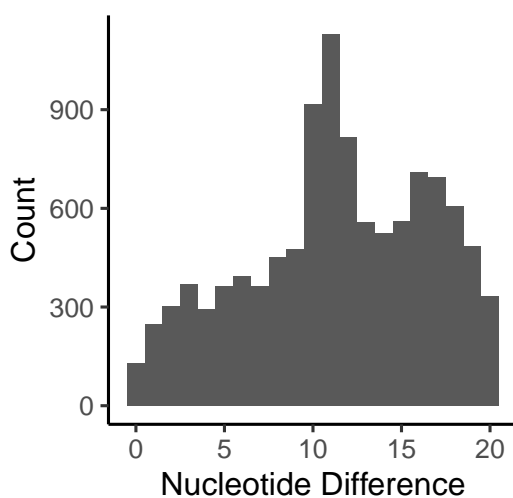
IGHV4-38-2*02

5967 sequences assigned
No exact matches.



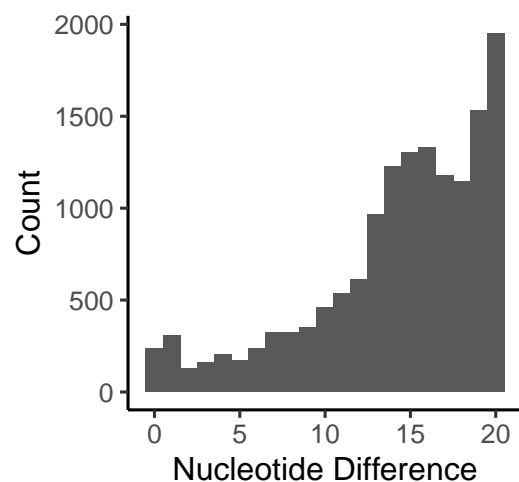
IGHV4-39*01_05

12203 sequences assigned
129 (1.1%) exact matches, in which:
79 unique CDR3
6 unique J



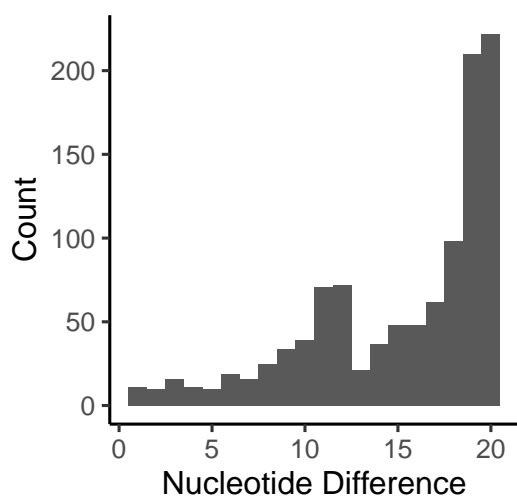
IGHV4-59*01_07

22046 sequences assigned
235 (1.1%) exact matches, in which:
132 unique CDR3
6 unique J



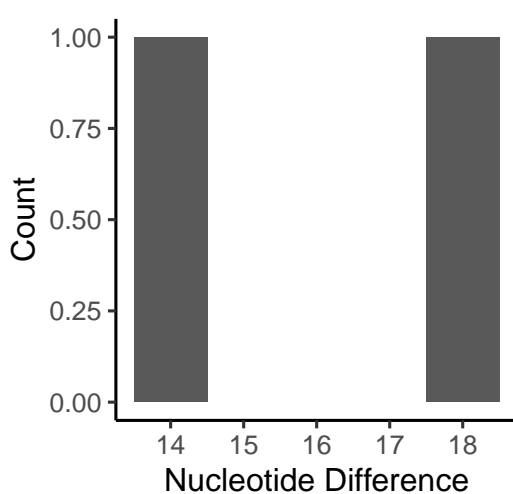
IGHV4-39*02

1607 sequences assigned
No exact matches.



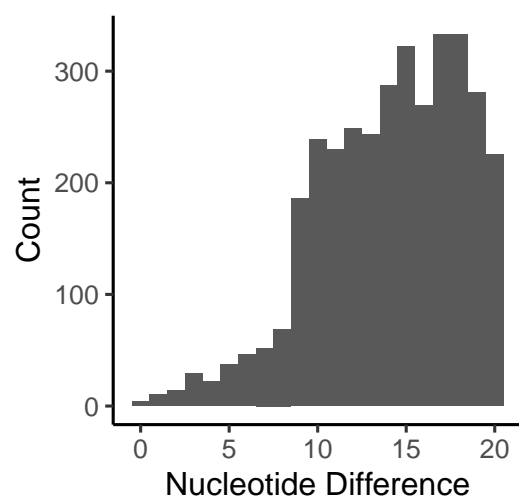
IGHV4-55*02_04_08

5 sequences assigned
No exact matches.



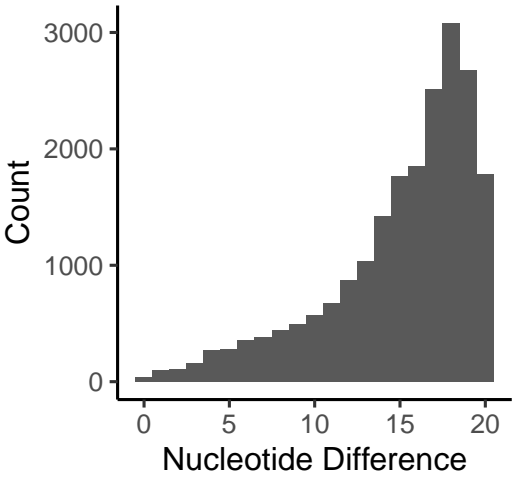
IGHV4-59*12

4431 sequences assigned
4 (0.1%) exact matches, in which:
4 unique CDR3
2 unique J



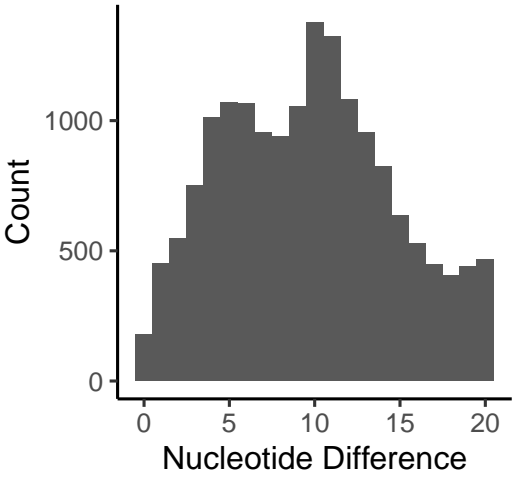
IGHV4-61*01

25434 sequences assigned
41 (0.2%) exact matches, in which:
29 unique CDR3
6 unique J



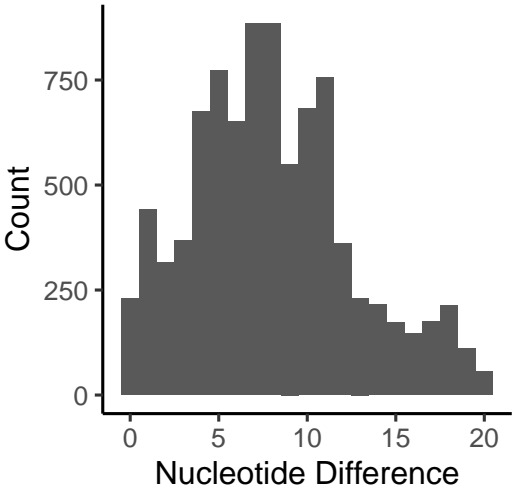
IGHV5-51*01_03

18812 sequences assigned
179 (1%) exact matches, in which:
112 unique CDR3
5 unique J



IGHV6-1*01_02

9018 sequences assigned
230 (2.6%) exact matches, in which:
132 unique CDR3
6 unique J





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.