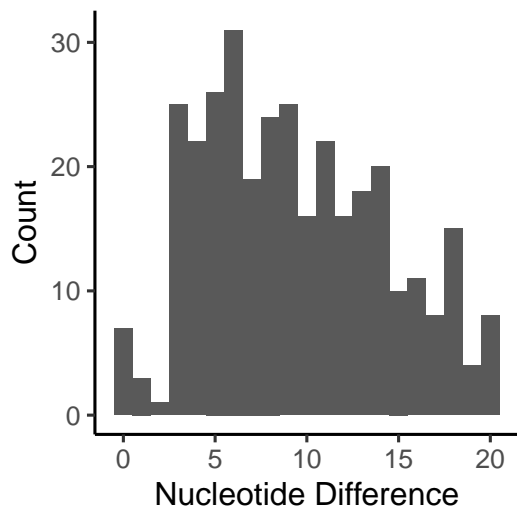


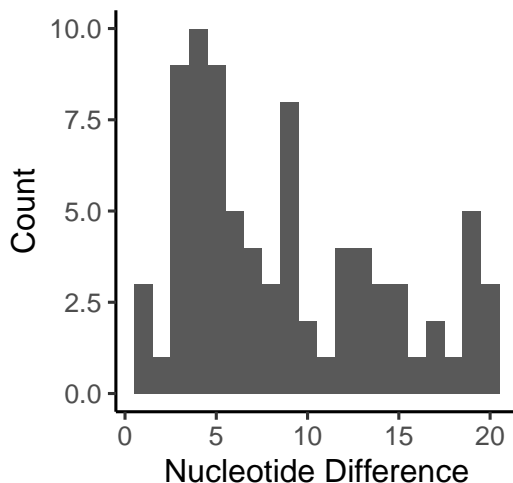
IGHV1-2*02

377 sequences assigned
7 (1.9%) exact matches, in which:
7 unique CDR3
4 unique J



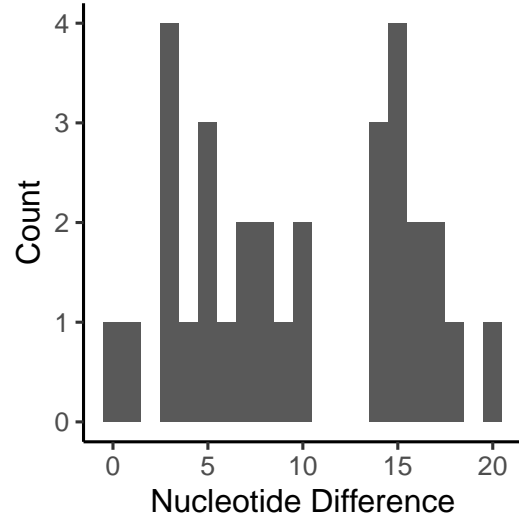
IGHV1-3*01_05

95 sequences assigned
No exact matches.



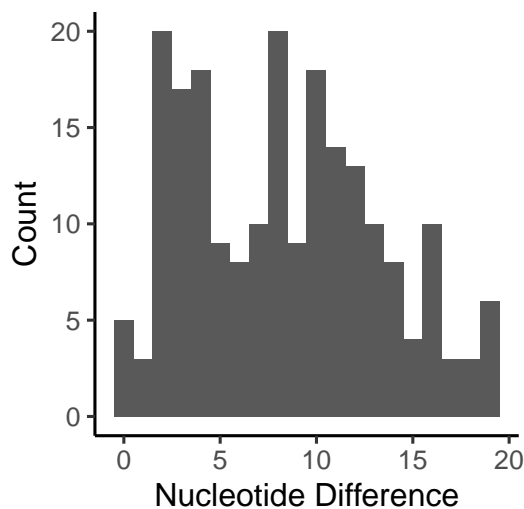
IGHV1-24*01

40 sequences assigned
1 (2.5%) exact matches, in which:
1 unique CDR3
1 unique J



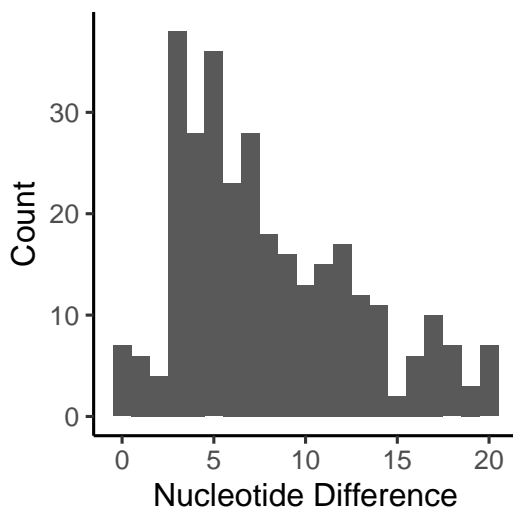
IGHV1-2*06

229 sequences assigned
5 (2.2%) exact matches, in which:
5 unique CDR3
3 unique J



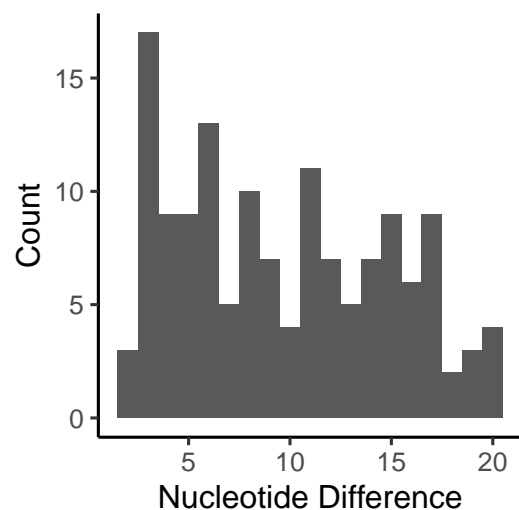
IGHV1-8*01

324 sequences assigned
7 (2.2%) exact matches, in which:
7 unique CDR3
3 unique J



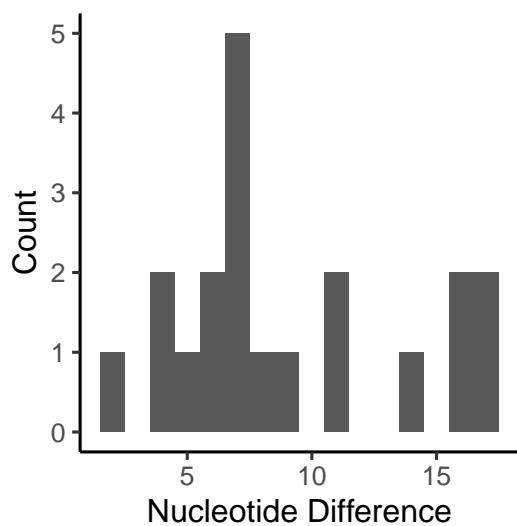
IGHV1-46*01

161 sequences assigned
No exact matches.



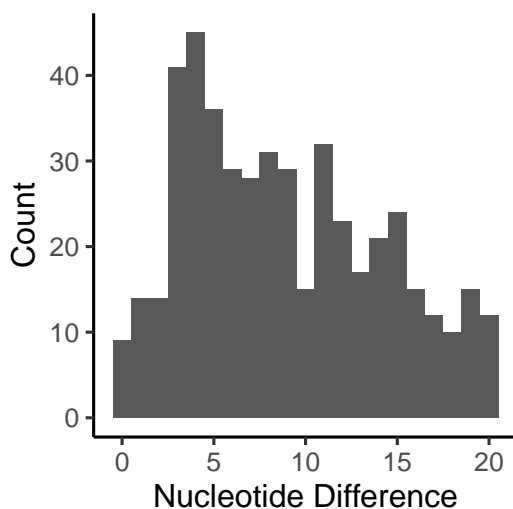
IGHV1-3*04

24 sequences assigned
No exact matches.



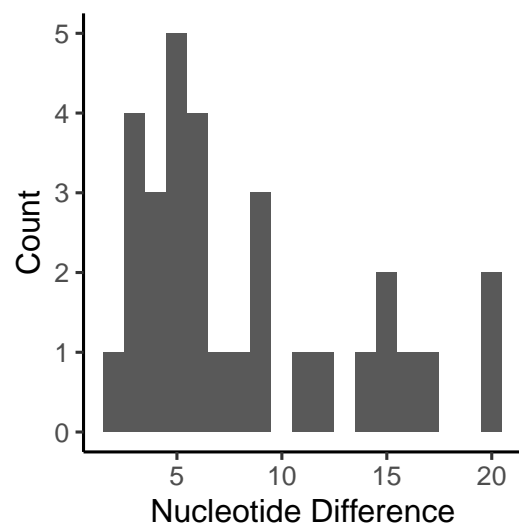
IGHV1-18*01

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



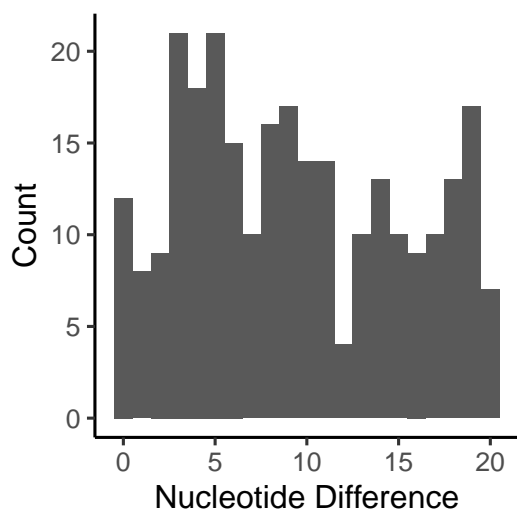
IGHV1-58*01_03

35 sequences assigned
No exact matches.



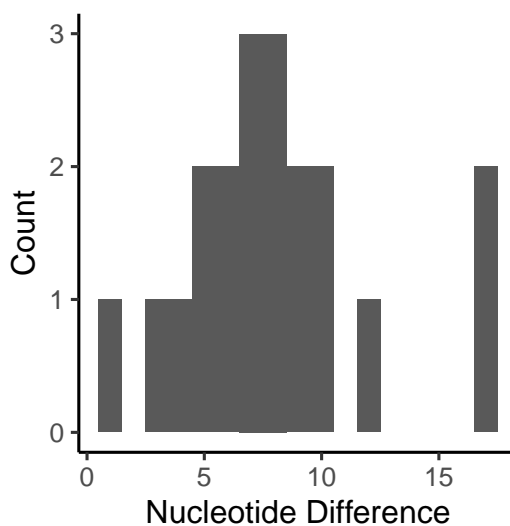
IGHV1-69*01_12_13

339 sequences assigned
12 (3.5%) exact matches, in which:
11 unique CDR3
2 unique J



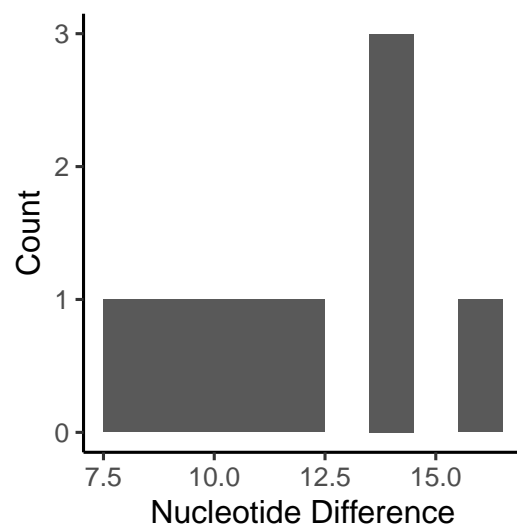
IGHV2-26*01

21 sequences assigned
No exact matches.



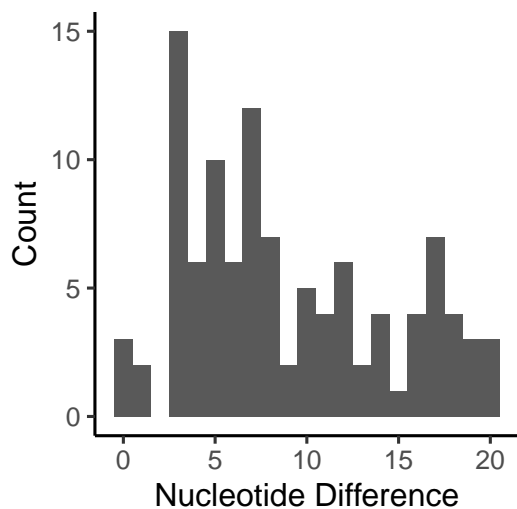
IGHV2-70*20

9 sequences assigned
No exact matches.



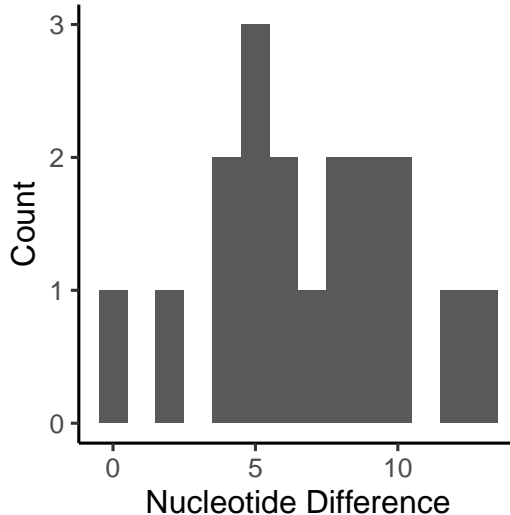
IGHV2-5*01

119 sequences assigned
3 (2.5%) exact matches, in which:
3 unique CDR3
1 unique J



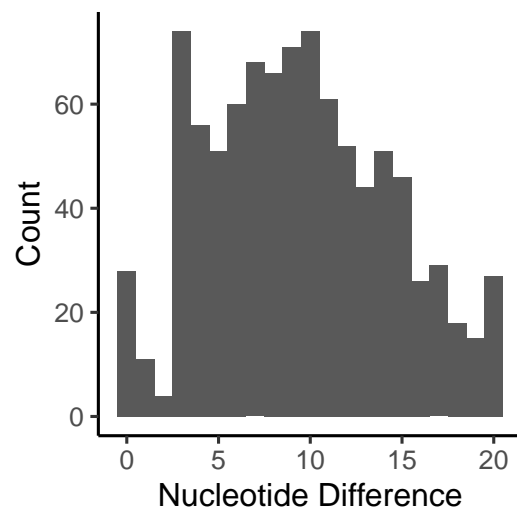
IGHV2-70*01

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



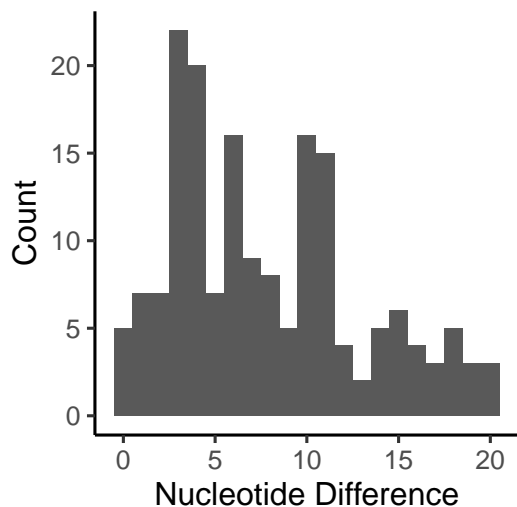
IGHV3-7*01

1033 sequences assigned
28 (2.7%) exact matches, in which:
18 unique CDR3
3 unique J



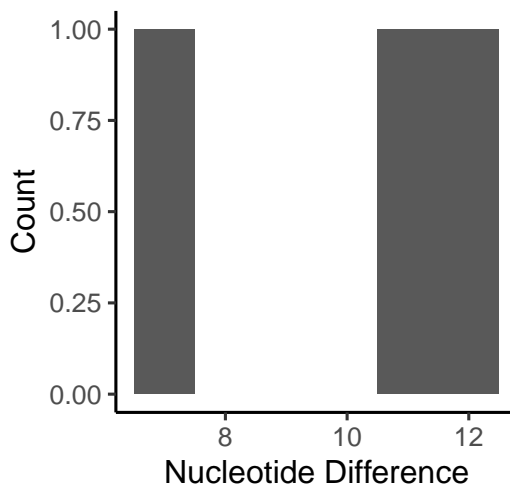
IGHV2-5*02

198 sequences assigned
5 (2.5%) exact matches, in which:
4 unique CDR3
2 unique J



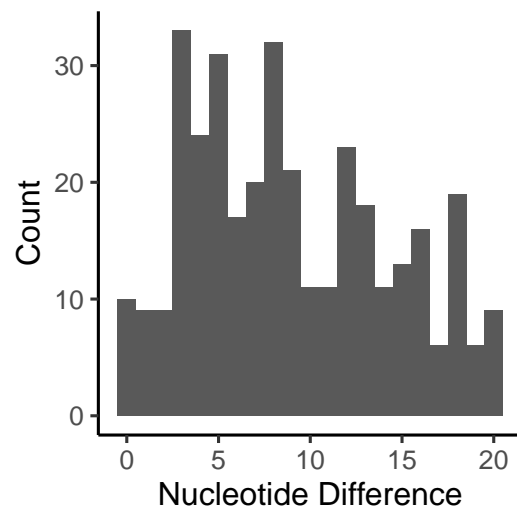
IGHV2-70*13

4 sequences assigned
No exact matches.



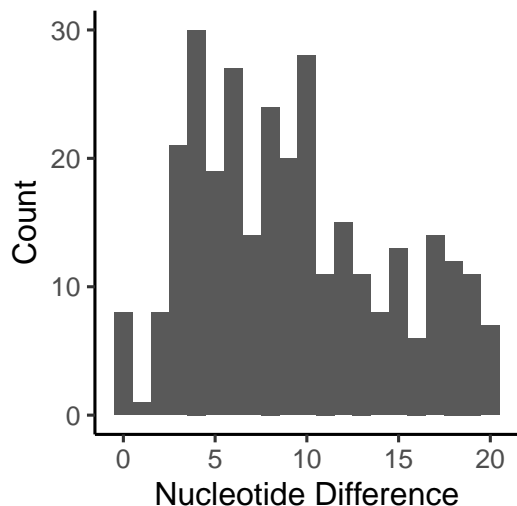
IGHV3-9*01

398 sequences assigned
10 (2.5%) exact matches, in which:
7 unique CDR3
2 unique J



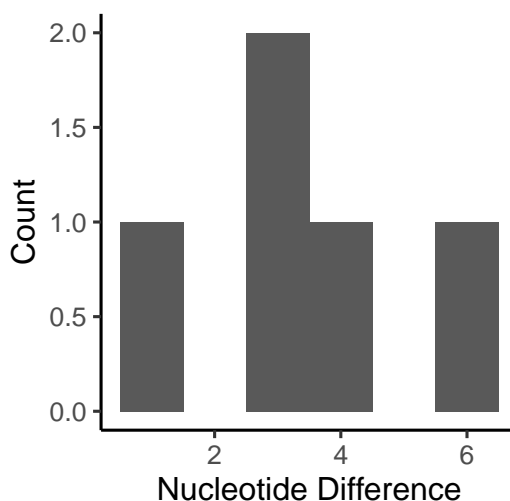
IGHV3-11*01

358 sequences assigned
8 (2.2%) exact matches, in which:
6 unique CDR3
2 unique J



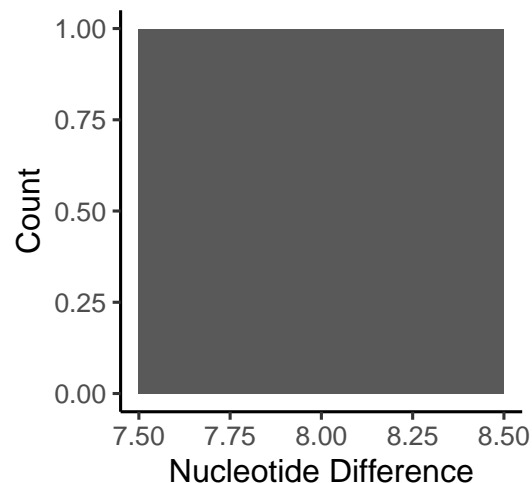
IGHV3-20*01_02

5 sequences assigned
No exact matches.



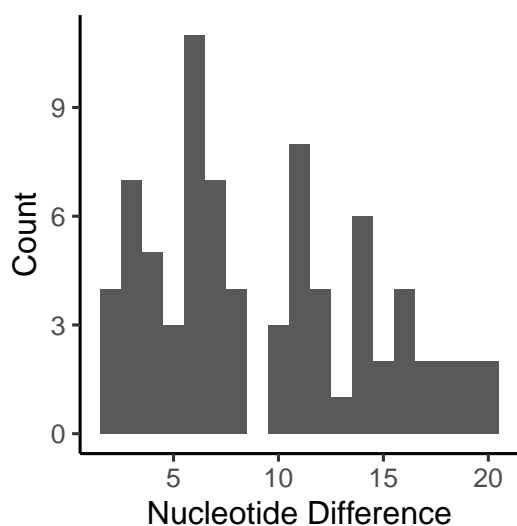
IGHV3-22*01_02

1 sequences assigned
No exact matches.



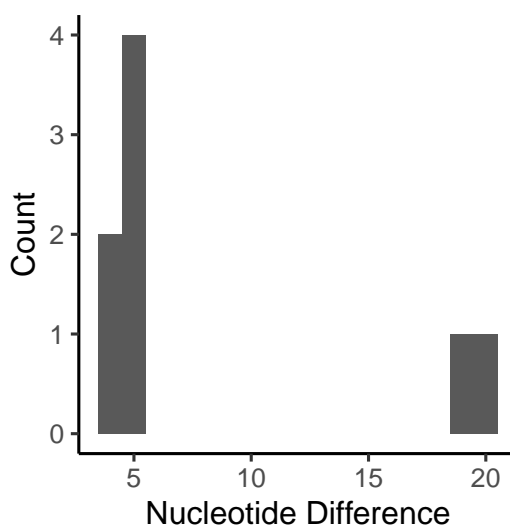
IGHV3-13*01

82 sequences assigned
No exact matches.



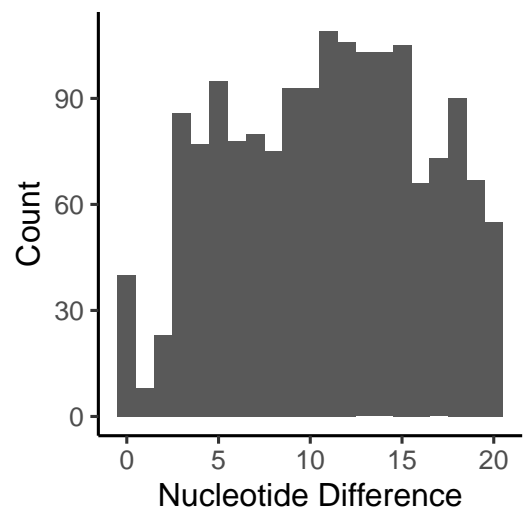
IGHV3-20*03_04

8 sequences assigned
No exact matches.



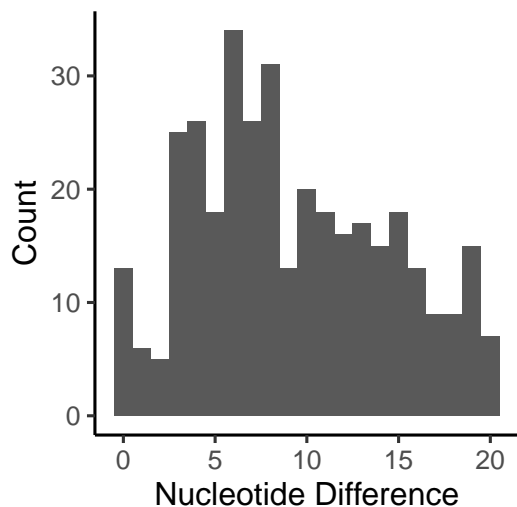
IGHV3-23*01_04

1878 sequences assigned
40 (2.1%) exact matches, in which:
23 unique CDR3
4 unique J



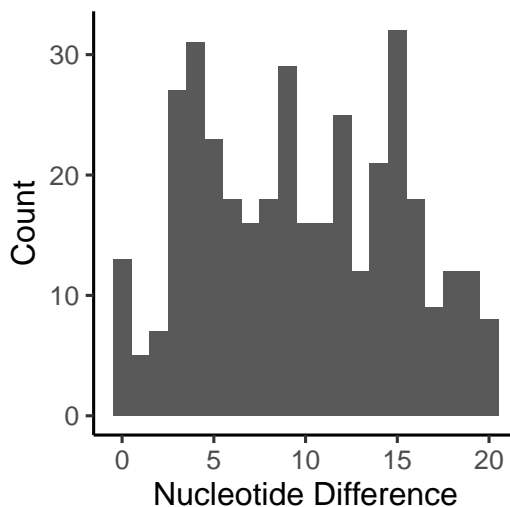
IGHV3-15*01_02

459 sequences assigned
13 (2.8%) exact matches, in which:
8 unique CDR3
4 unique J



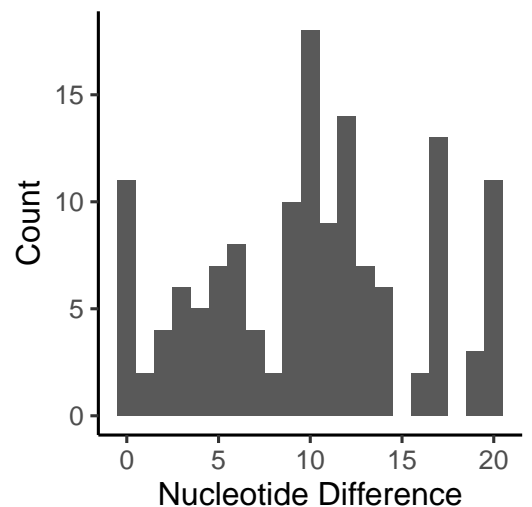
IGHV3-21*01_02

414 sequences assigned
13 (3.1%) exact matches, in which:
8 unique CDR3
4 unique J



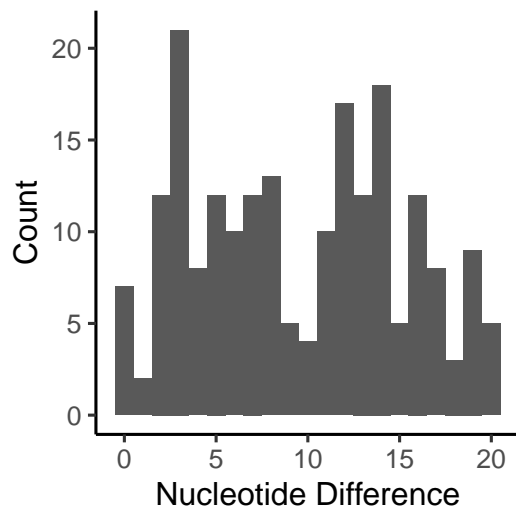
IGHV3-33*01

156 sequences assigned
11 (7.1%) exact matches, in which:
6 unique CDR3
3 unique J



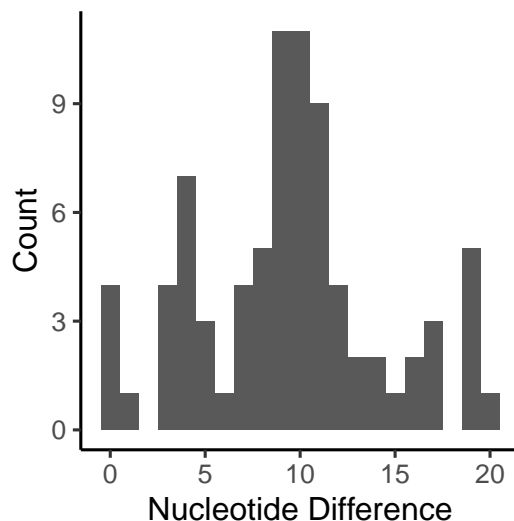
IGHV3-33*08

223 sequences assigned
7 (3.1%) exact matches, in which:
4 unique CDR3
3 unique J



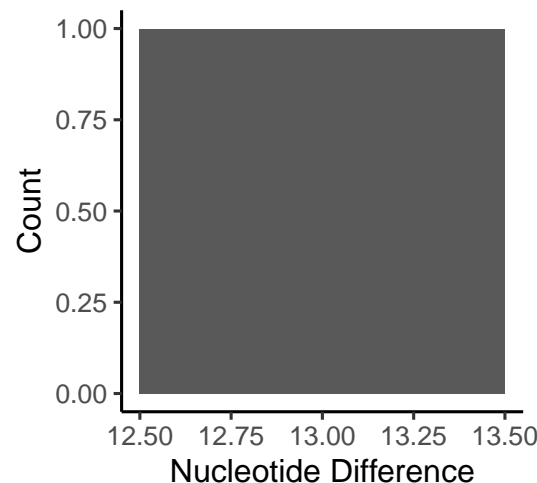
IGHV3-49*03_05

94 sequences assigned
4 (4.3%) exact matches, in which:
2 unique CDR3
1 unique J



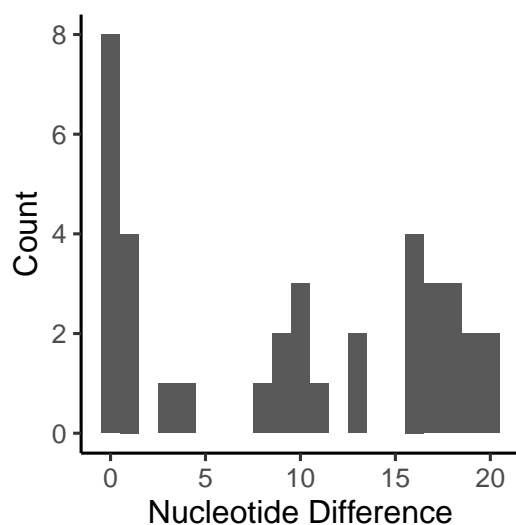
IGHV3-66*01

1 sequences assigned
No exact matches.



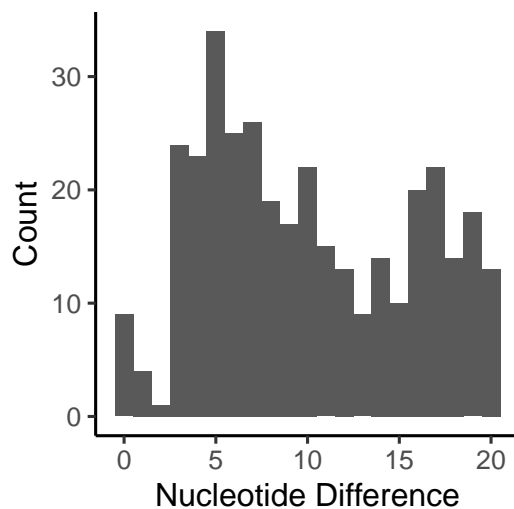
IGHV3-43*01

44 sequences assigned
8 (18.2%) exact matches, in which:
6 unique CDR3
2 unique J



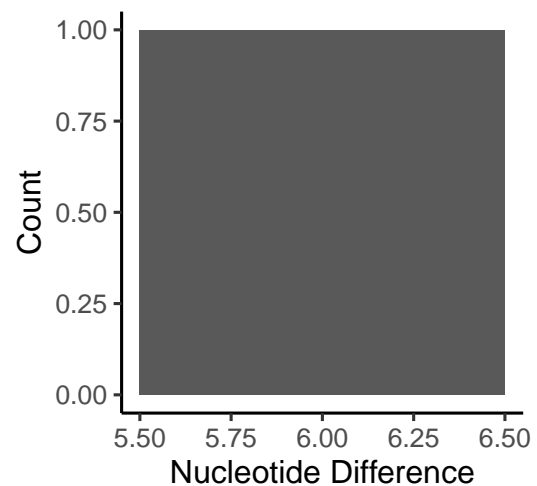
IGHV3-53*01_02

408 sequences assigned
9 (2.2%) exact matches, in which:
6 unique CDR3
3 unique J



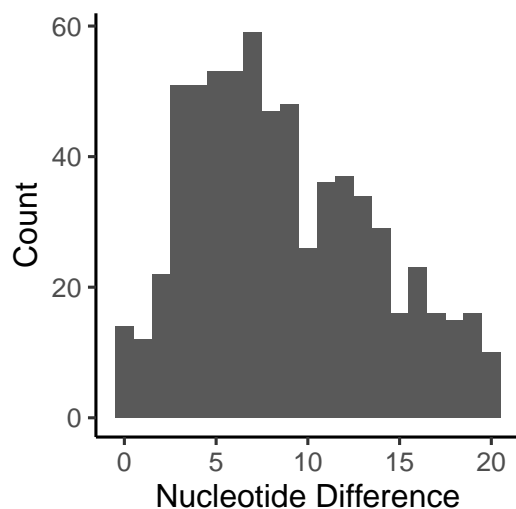
IGHV3-66*03

1 sequences assigned
No exact matches.



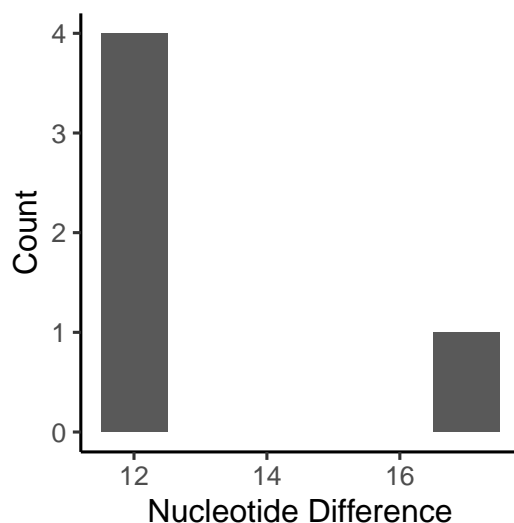
IGHV3-48*02

728 sequences assigned
14 (1.9%) exact matches, in which:
8 unique CDR3
2 unique J



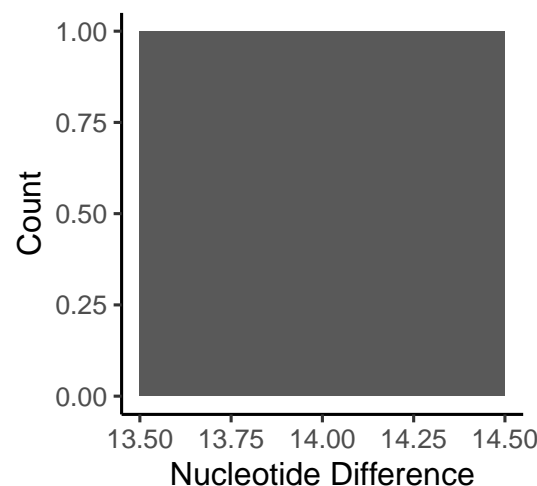
IGHV3-64*02_07

5 sequences assigned
No exact matches.



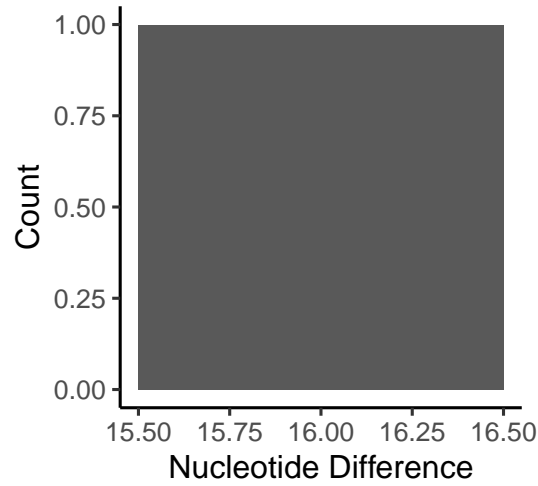
IGHV3-66*04

1 sequences assigned
No exact matches.



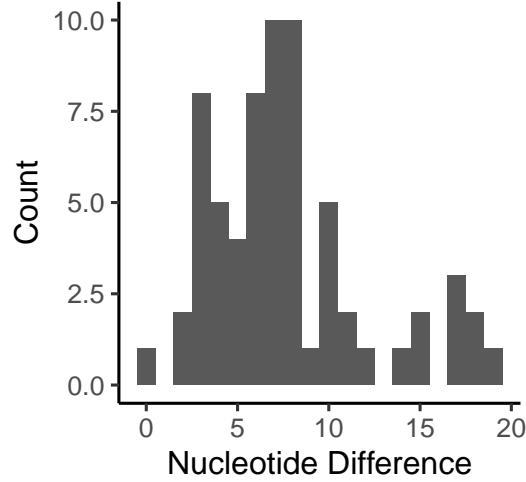
IGHV3-69-1*01

1 sequences assigned
No exact matches.



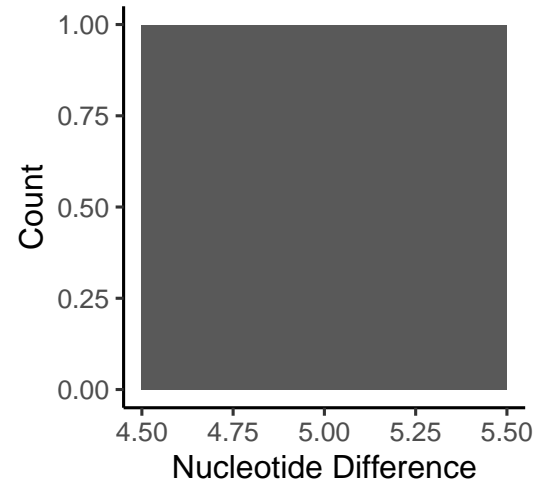
IGHV3-73*01_02

78 sequences assigned
1 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



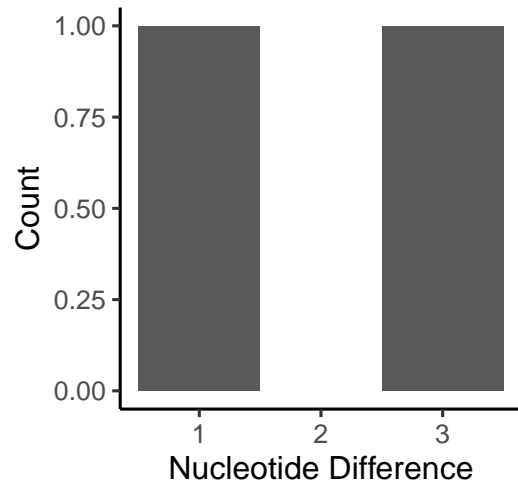
IGHV3-64D*09

1 sequences assigned
No exact matches.



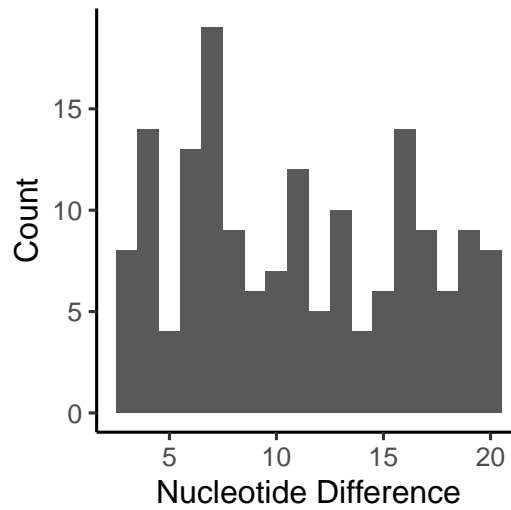
IGHV3-69-1*02

2 sequences assigned
No exact matches.



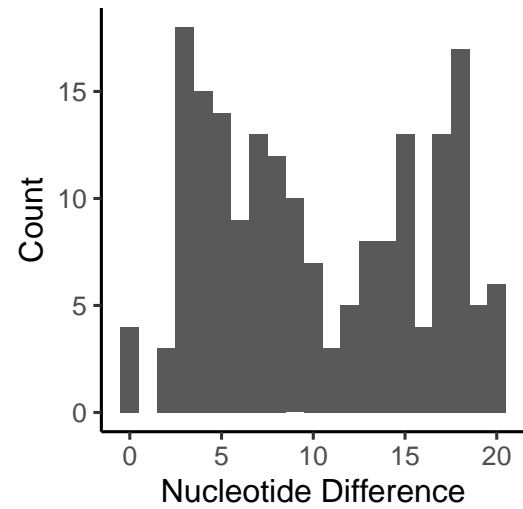
IGHV3-74*03

185 sequences assigned
No exact matches.



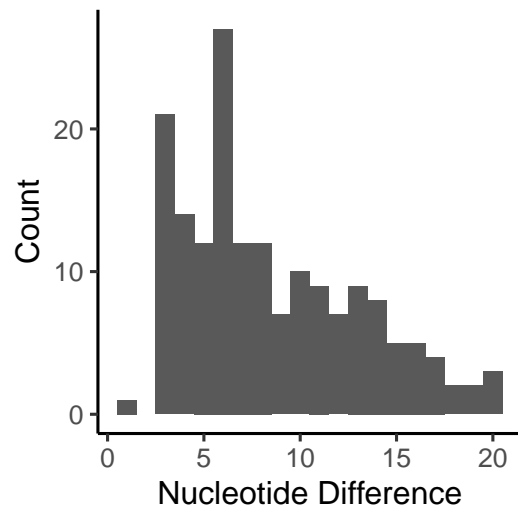
IGHV4-4*07

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



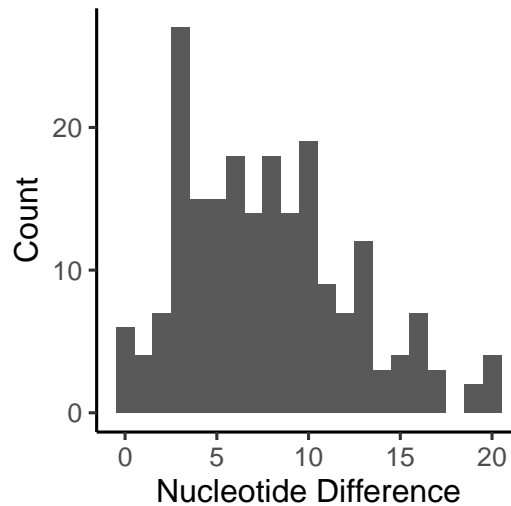
IGHV3-72*01

173 sequences assigned
No exact matches.



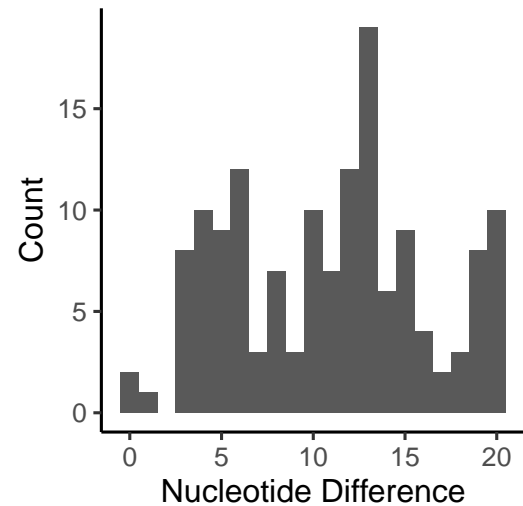
IGHV3-74*01_02

229 sequences assigned
6 (2.6%) exact matches, in which:
4 unique CDR3
2 unique J



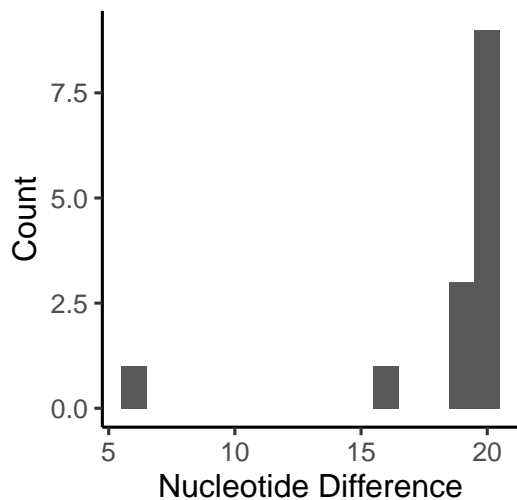
IGHV4-4*02_03

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



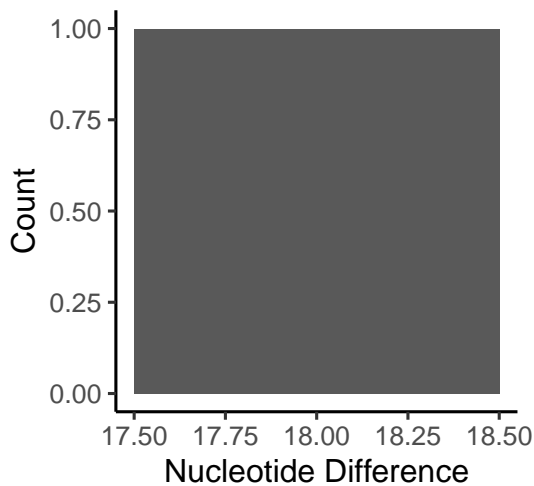
IGHV4-28*01_07

16 sequences assigned
No exact matches.



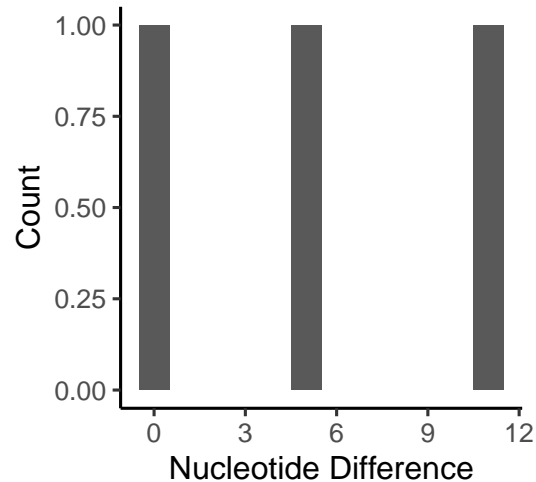
IGHV4-30-2*03

2 sequences assigned
No exact matches.



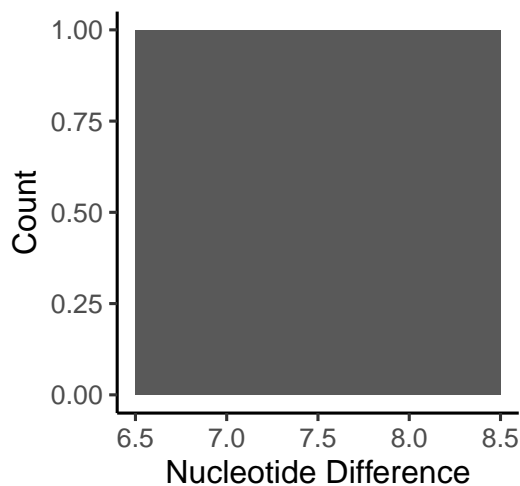
IGHV4-38-2*01

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



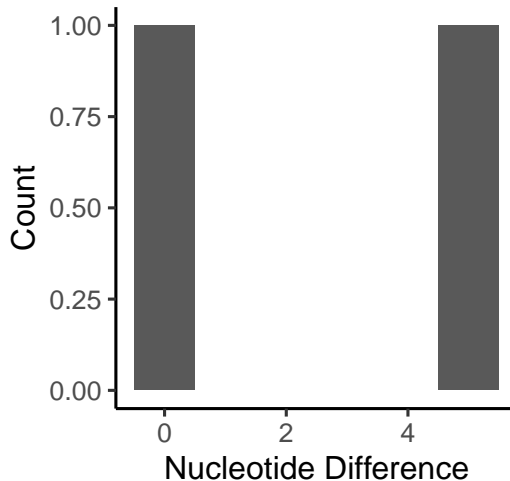
IGHV4-28*02_05

2 sequences assigned
No exact matches.



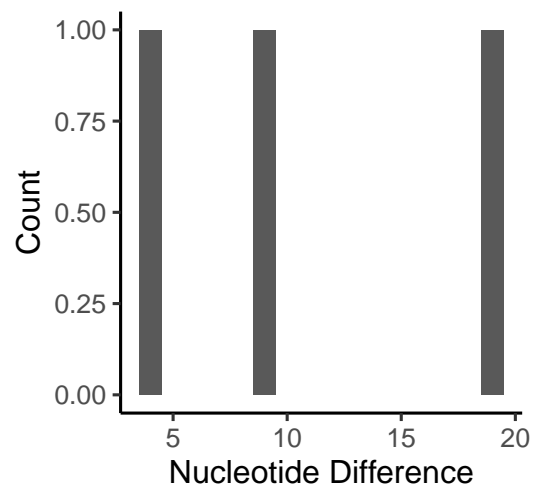
IGHV4-31*02

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



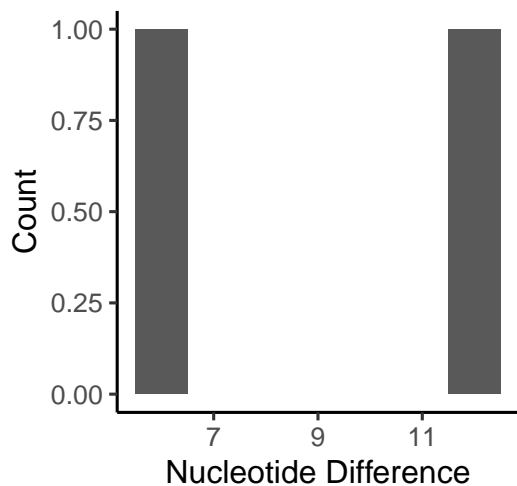
IGHV4-38-2*02

4 sequences assigned
No exact matches.



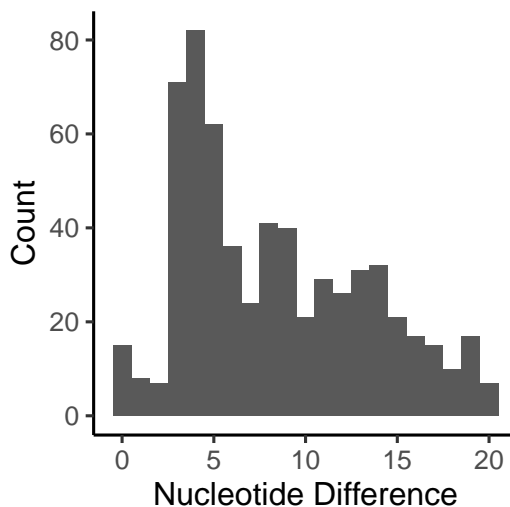
IGHV4-30-2*01

3 sequences assigned
No exact matches.



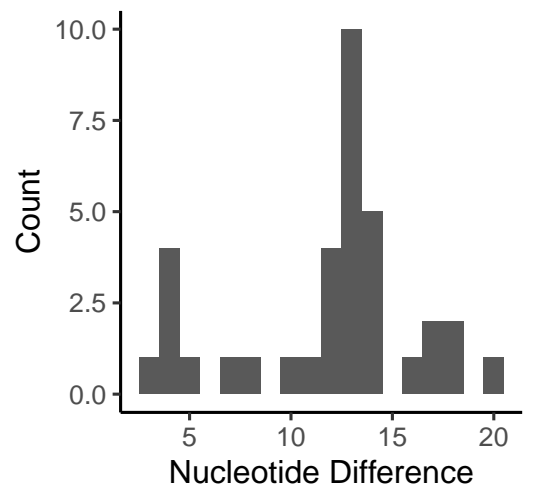
IGHV4-34*01_02

693 sequences assigned
15 (2.2%) exact matches, in which:
9 unique CDR3
3 unique J



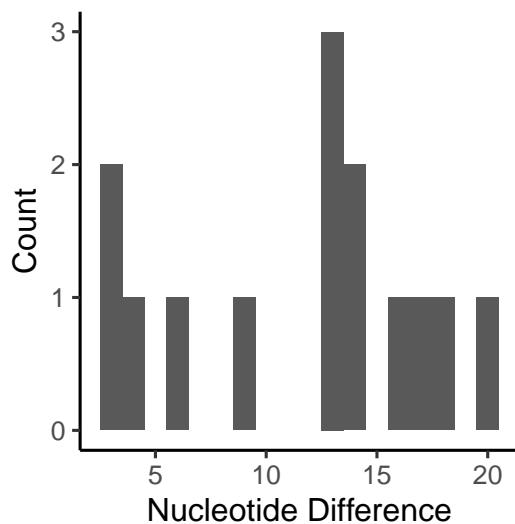
IGHV4-39*02

44 sequences assigned
No exact matches.



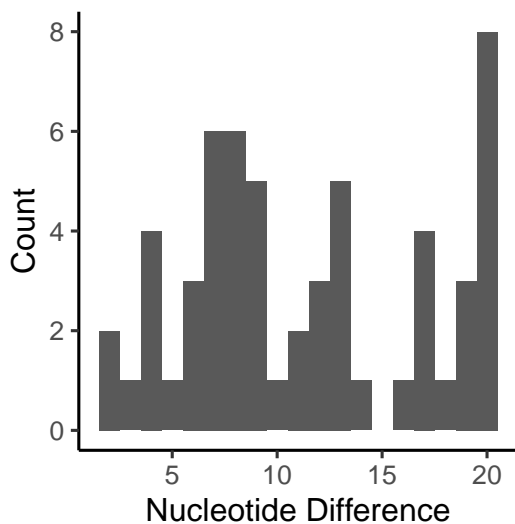
IGHV4-39*07

17 sequences assigned
No exact matches.



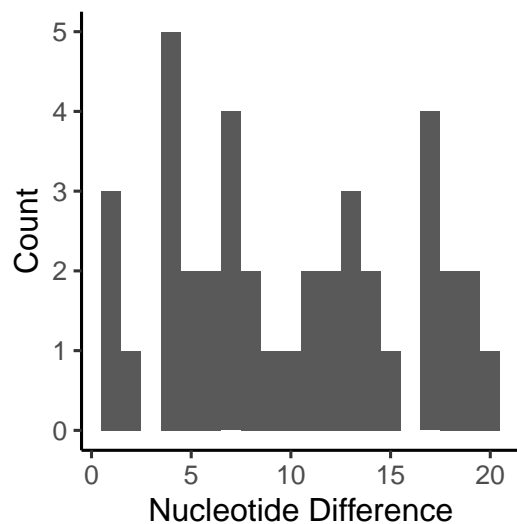
IGHV4-59*11

76 sequences assigned
No exact matches.



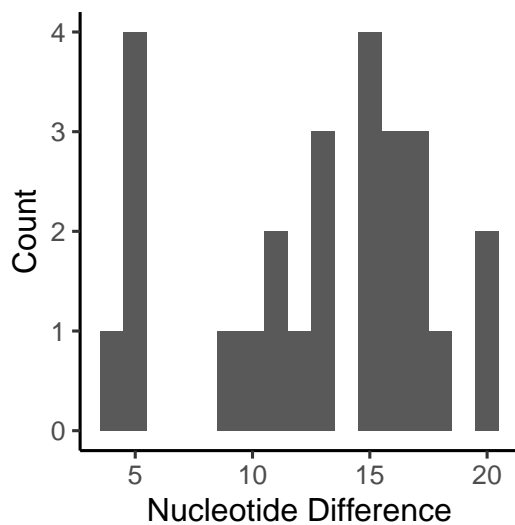
IGHV5-51*07

47 sequences assigned
No exact matches.



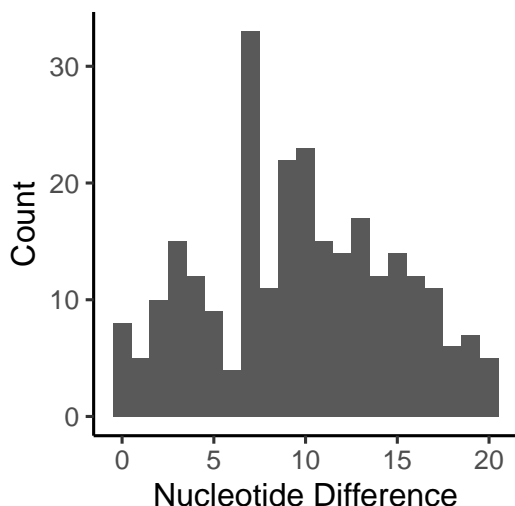
IGHV4-59*02

38 sequences assigned
No exact matches.



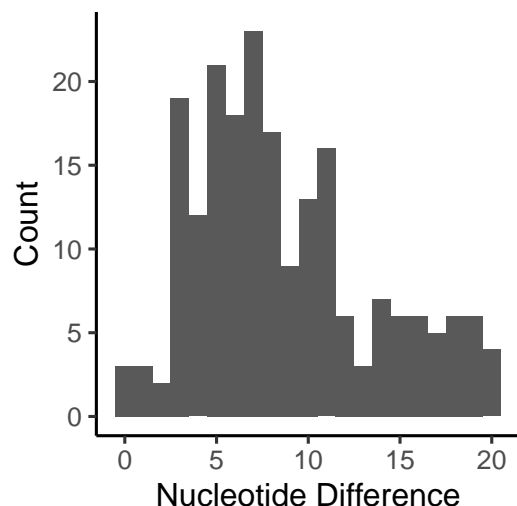
IGHV4-61*01

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



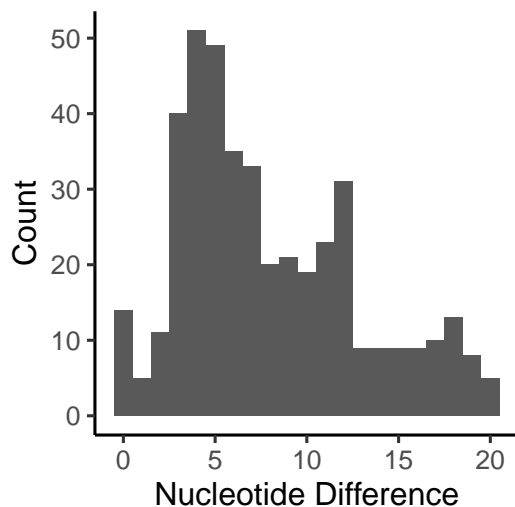
IGHV5-51*01_03

228 sequences assigned
3 (1.3%) exact matches, in which:
3 unique CDR3
2 unique J



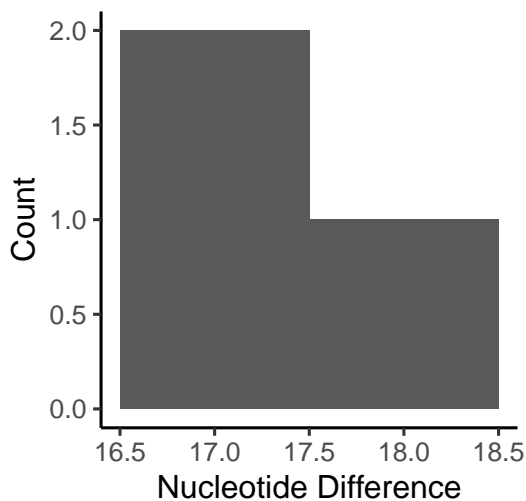
IGHV4-59*01_07

463 sequences assigned
14 (3%) exact matches, in which:
11 unique CDR3
4 unique J



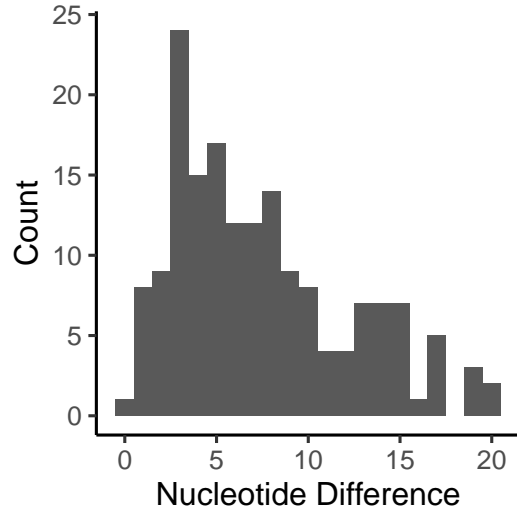
IGHV4/OR15-8*01

3 sequences assigned
No exact matches.



IGHV6-1*01_02

197 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



IGHV7-4-1*02

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

