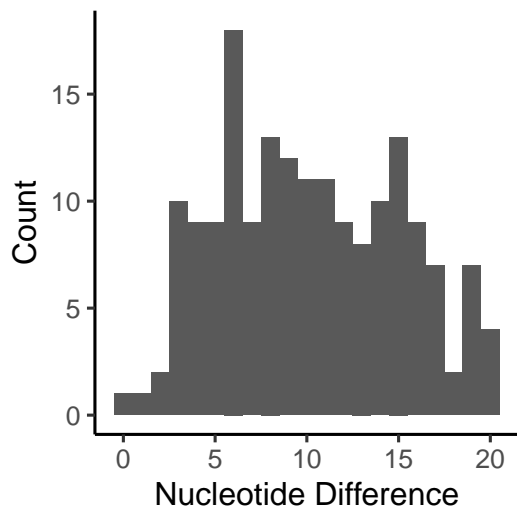


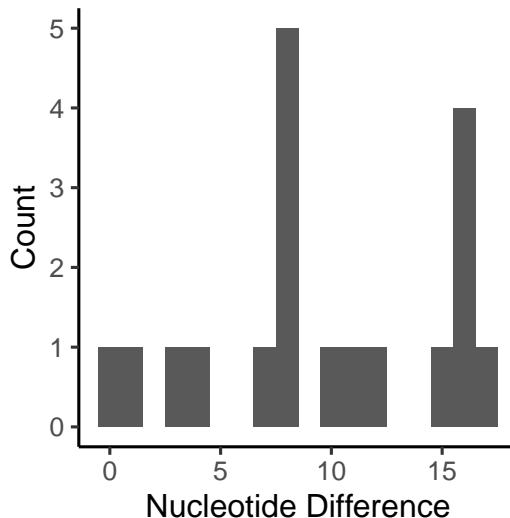
IGHV1-2*02

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



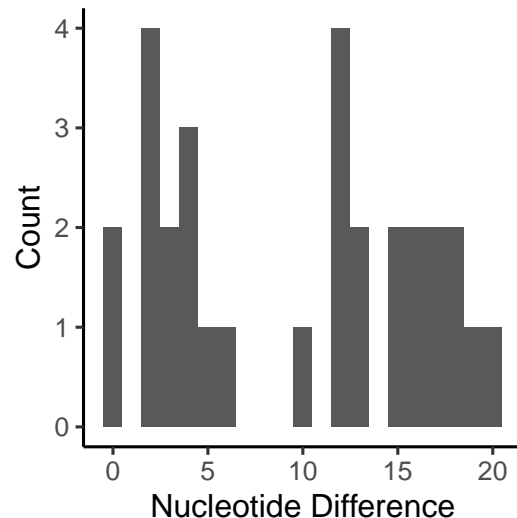
IGHV1-3*01_05

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



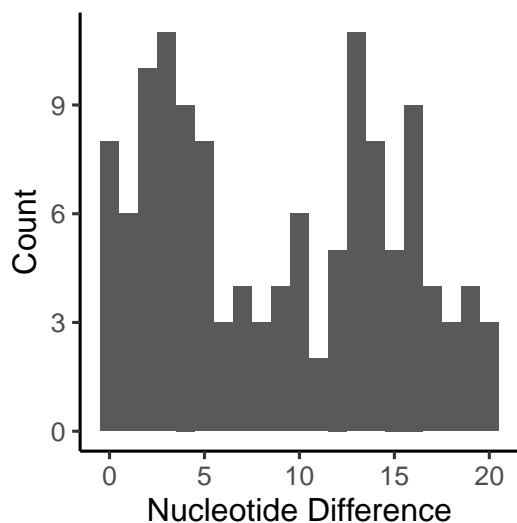
IGHV1-24*01

36 sequences assigned
2 (5.6%) exact matches, in which:
2 unique CDR3
2 unique J



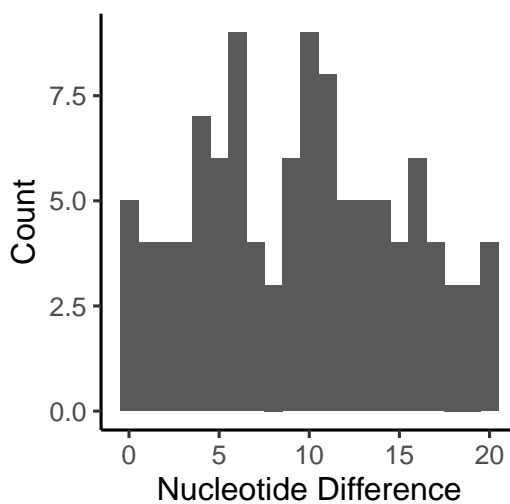
IGHV1-2*06

149 sequences assigned
8 (5.4%) exact matches, in which:
7 unique CDR3
2 unique J



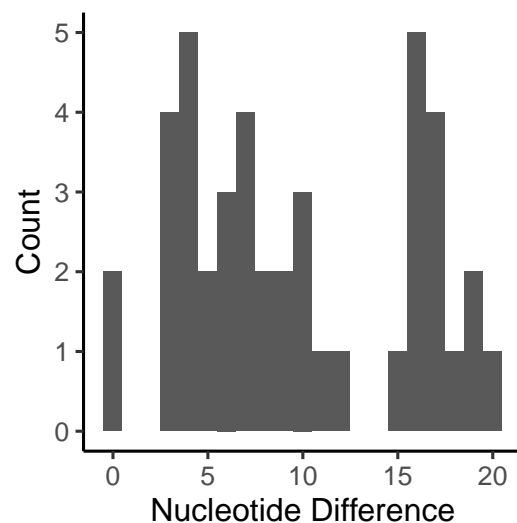
IGHV1-8*01

128 sequences assigned
5 (3.9%) exact matches, in which:
5 unique CDR3
3 unique J



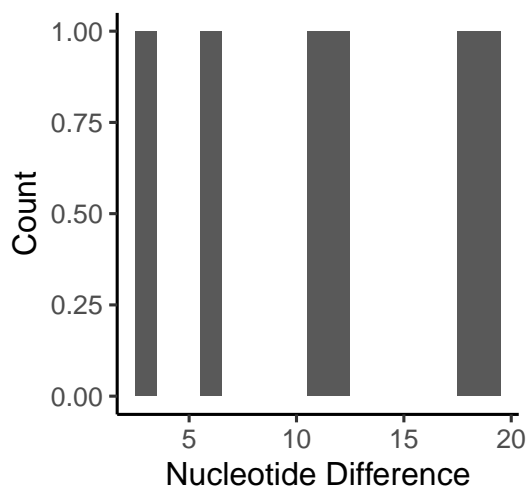
IGHV1-46*01

51 sequences assigned
2 (3.9%) exact matches, in which:
2 unique CDR3
1 unique J



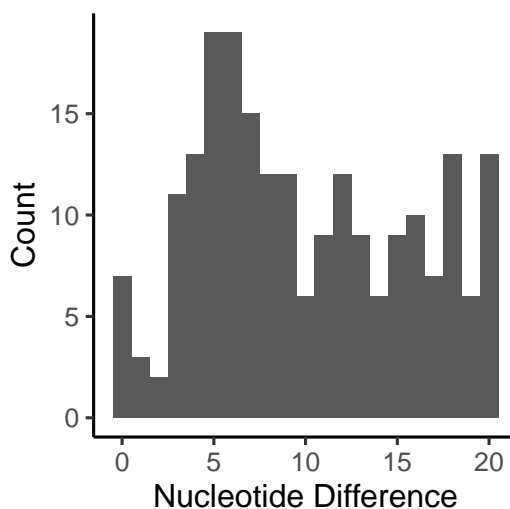
IGHV1-3*04

8 sequences assigned
No exact matches.



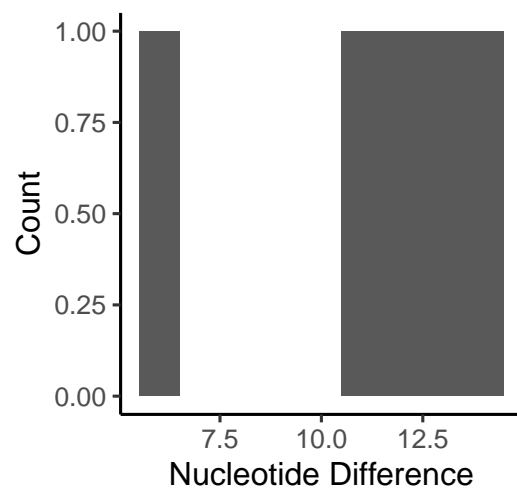
IGHV1-18*01

275 sequences assigned
7 (2.5%) exact matches, in which:
7 unique CDR3
3 unique J



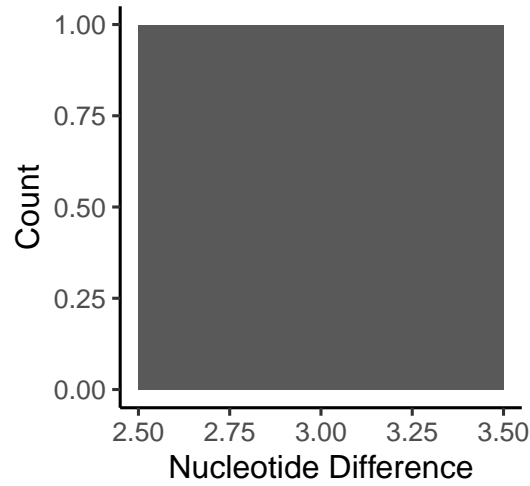
IGHV1-58*01_03

7 sequences assigned
No exact matches.



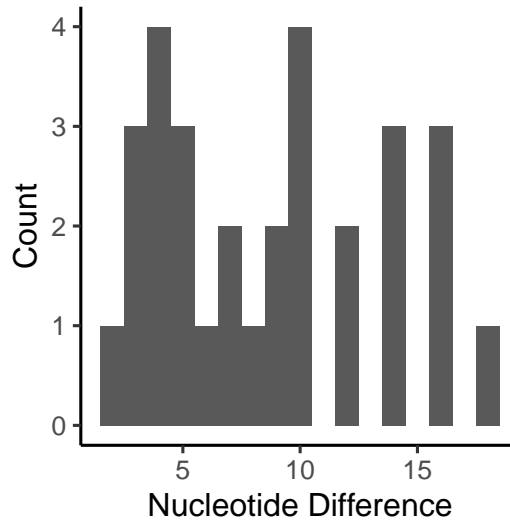
IGHV1-68*02_03

1 sequences assigned
No exact matches.



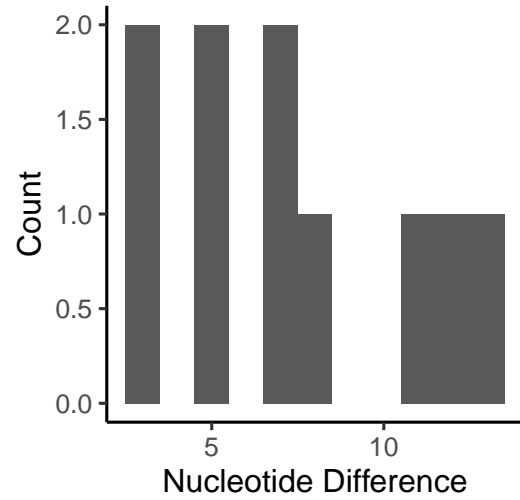
IGHV2-5*01

34 sequences assigned
No exact matches.



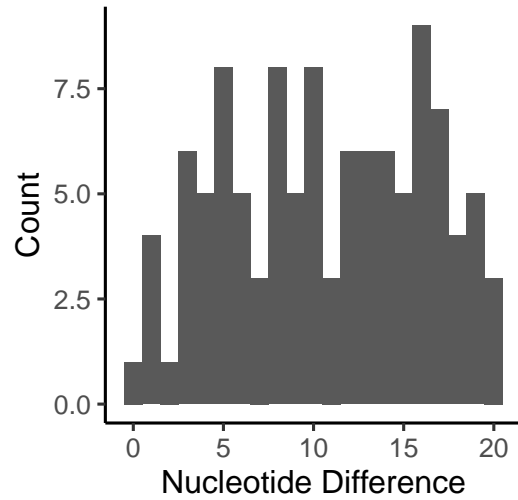
IGHV2-70*01

10 sequences assigned
No exact matches.



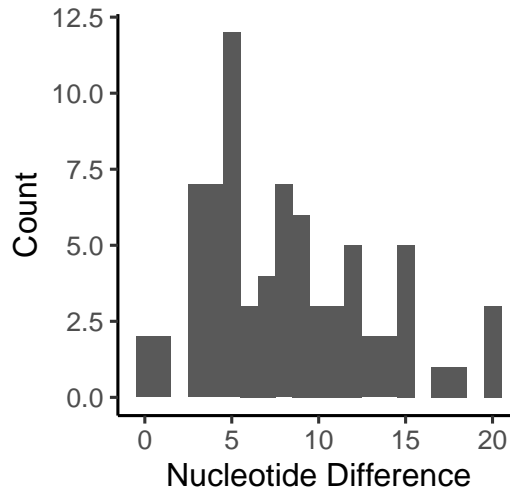
IGHV1-69*01_12_13

130 sequences assigned
1 (0.8%) exact matches, in which:
1 unique CDR3
1 unique J



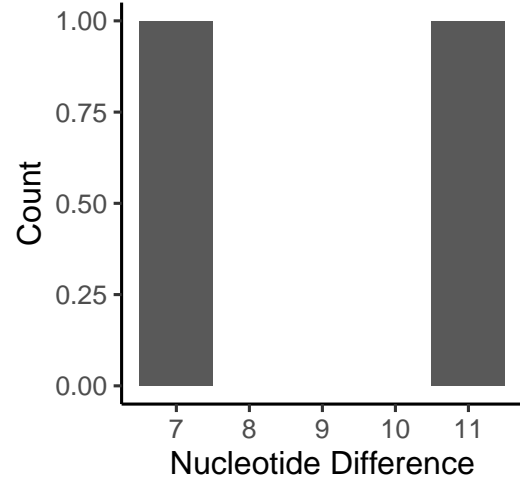
IGHV2-5*02

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



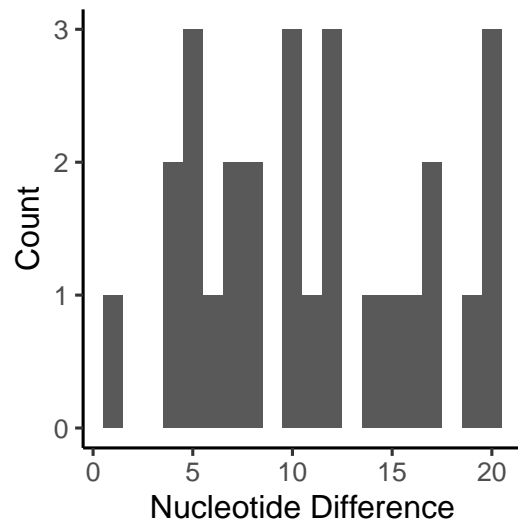
IGHV2-70*13

2 sequences assigned
No exact matches.



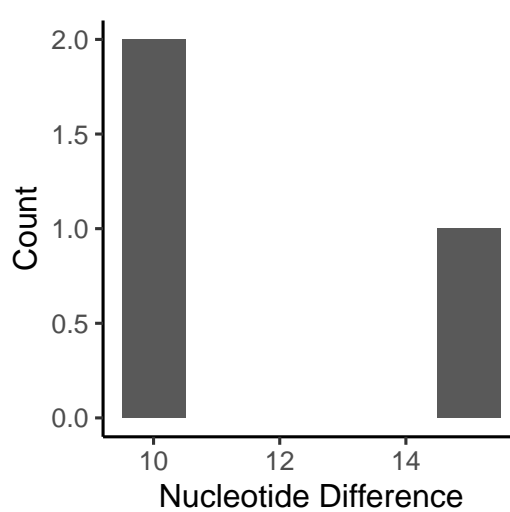
IGHV1-69*06_14

44 sequences assigned
No exact matches.



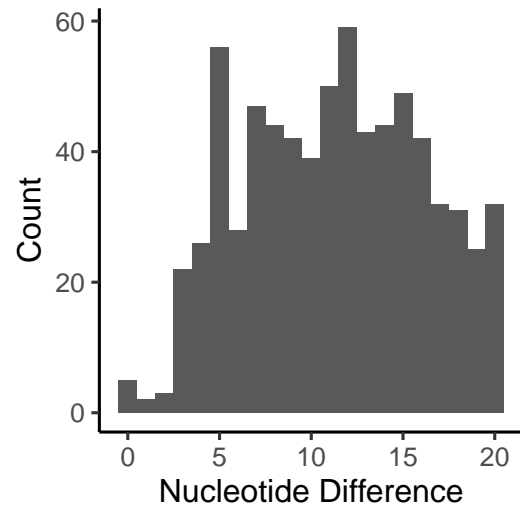
IGHV2-26*01

4 sequences assigned
No exact matches.



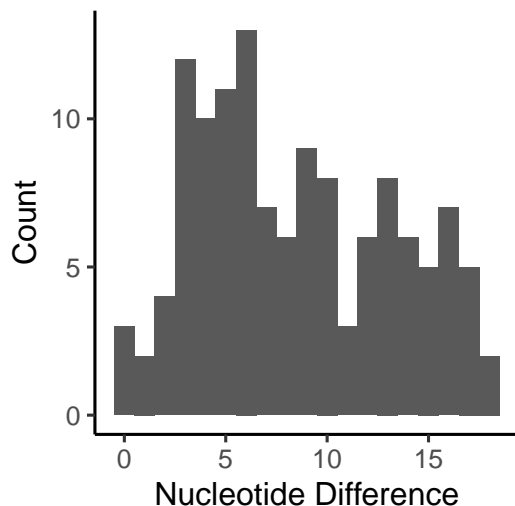
IGHV3-7*01

809 sequences assigned
5 (0.6%) exact matches, in which:
4 unique CDR3
1 unique J



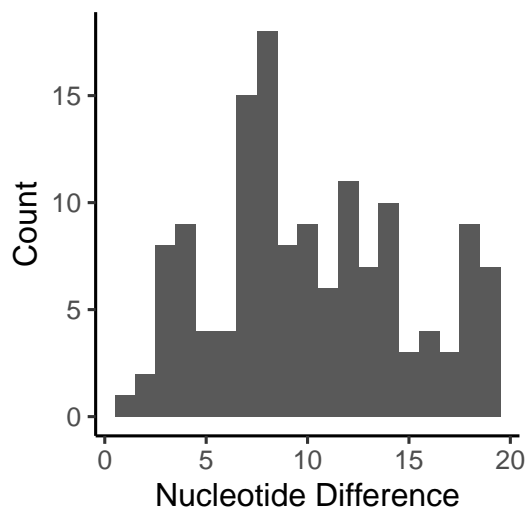
IGHV3-9*01

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



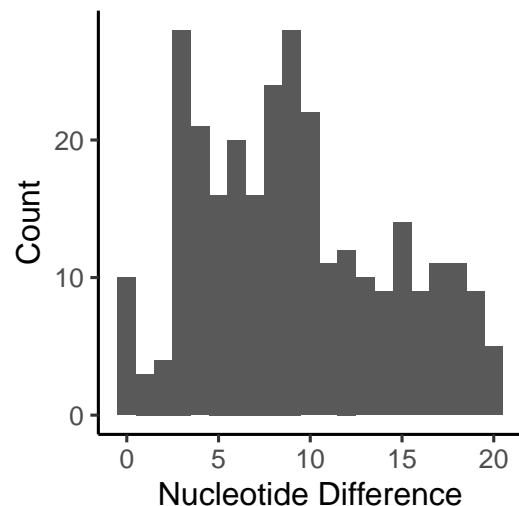
IGHV3-15*01_02

158 sequences assigned
No exact matches.



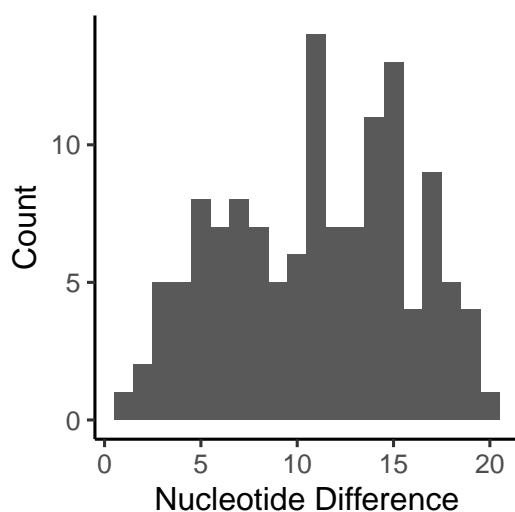
IGHV3-21*01_02

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



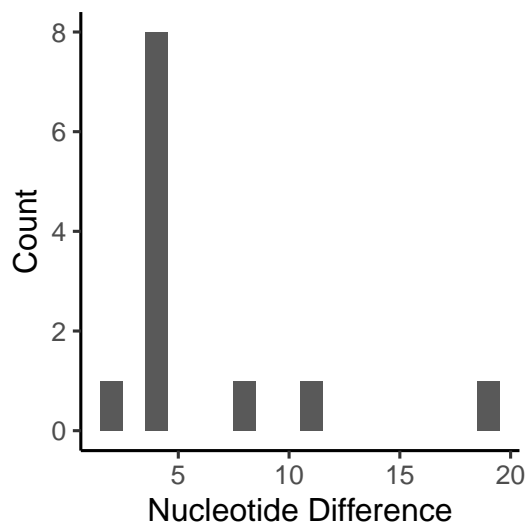
IGHV3-11*01

151 sequences assigned
No exact matches.



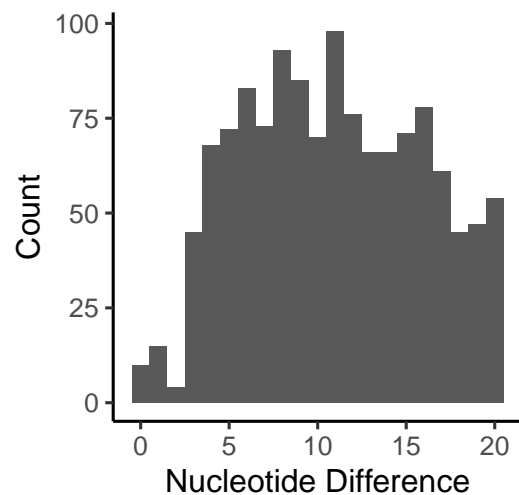
IGHV3-20*01_02

13 sequences assigned
No exact matches.



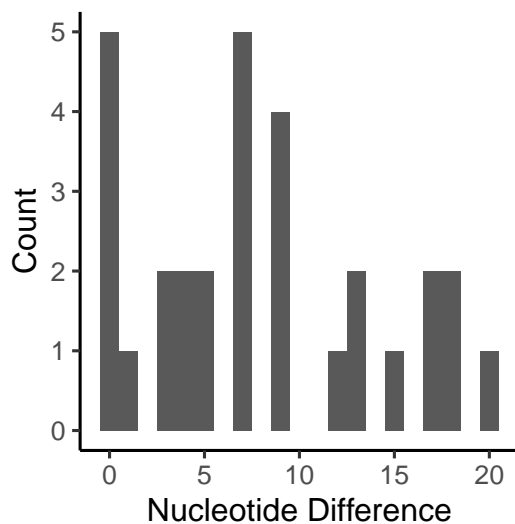
IGHV3-23*01_04

1550 sequences assigned
10 (0.6%) exact matches, in which:
8 unique CDR3
2 unique J



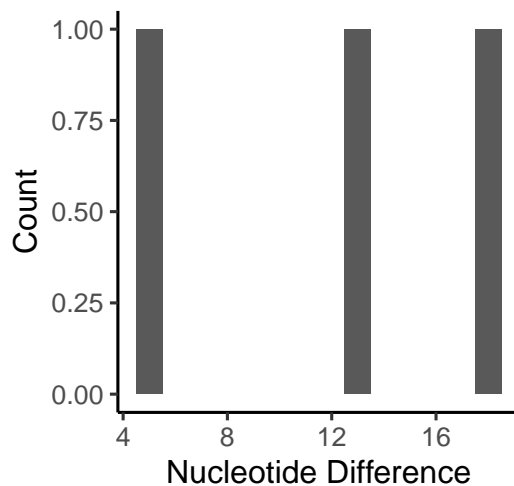
IGHV3-13*01

37 sequences assigned
5 (13.5%) exact matches, in which:
3 unique CDR3
3 unique J



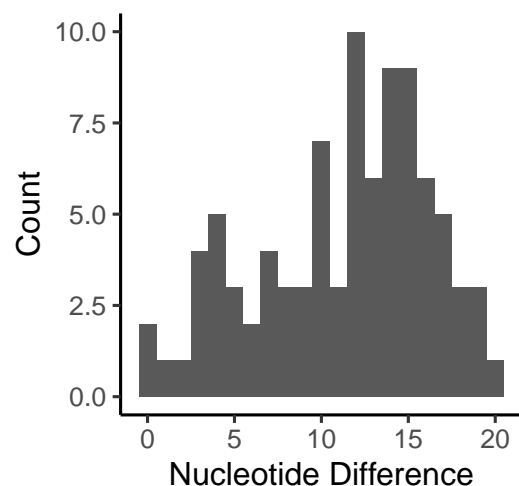
IGHV3-20*03_04

7 sequences assigned
No exact matches.



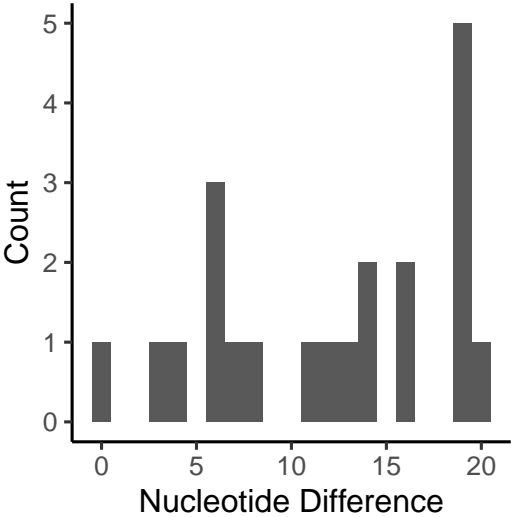
IGHV3-30-3*01

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



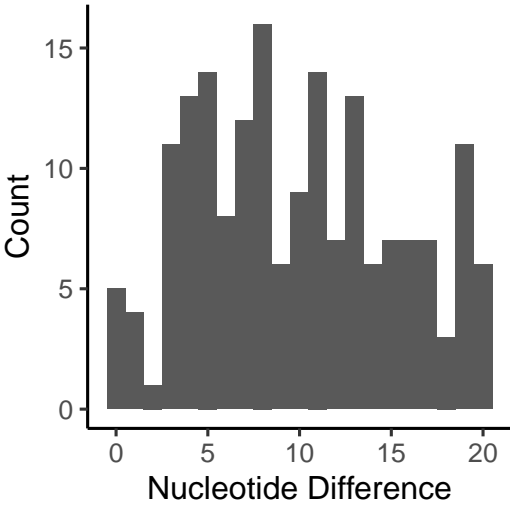
IGHV3-30*03

26 sequences assigned
1 (3.8%) exact matches, in which:
1 unique CDR3
1 unique J



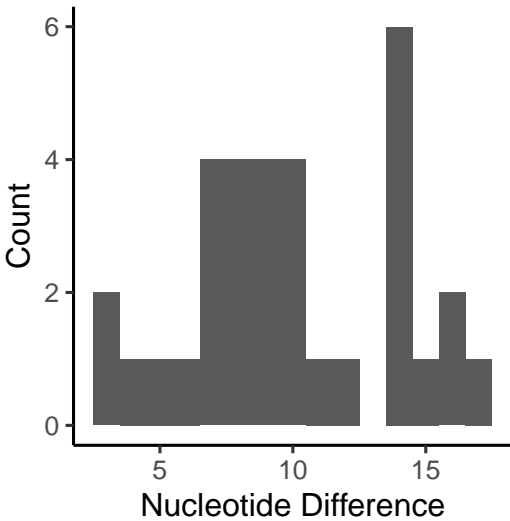
IGHV3-48*03

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



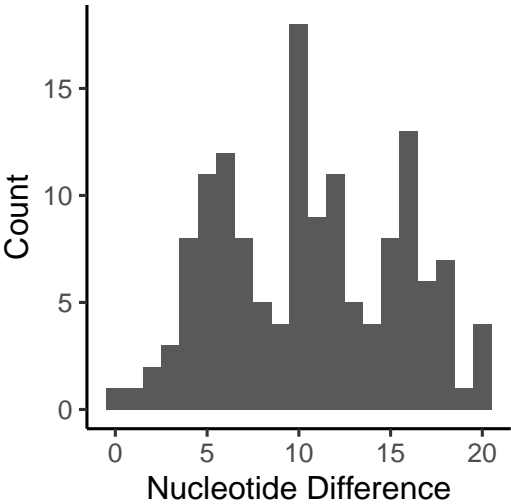
IGHV3-49*03_05

36 sequences assigned
No exact matches.



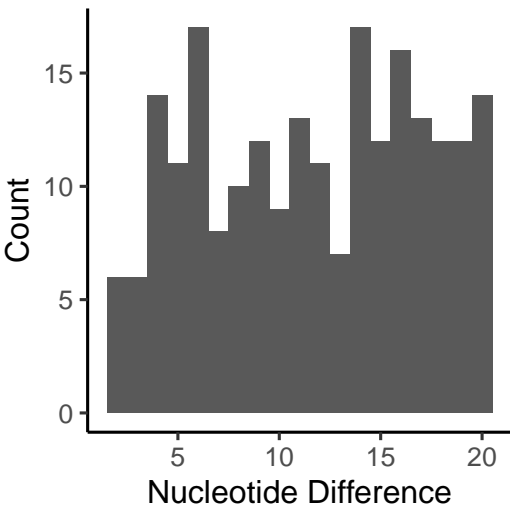
IGHV3-33*01

167 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



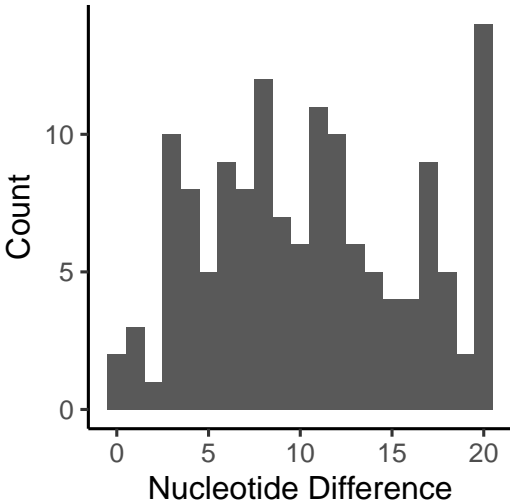
IGHV3-48*04

293 sequences assigned
No exact matches.



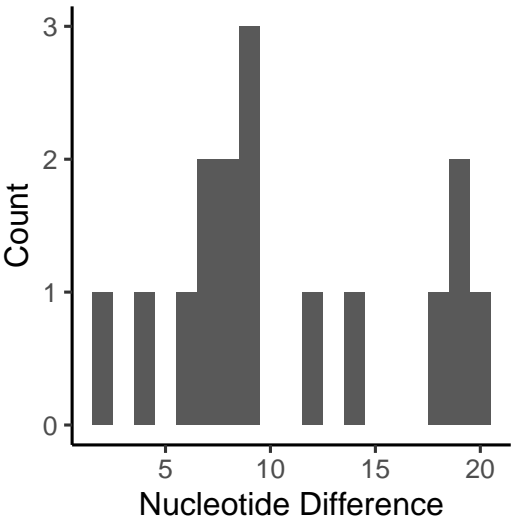
IGHV3-53*01_02

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



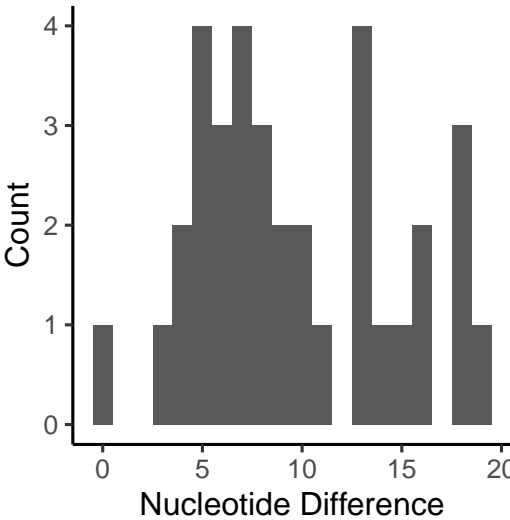
IGHV3-43*01

16 sequences assigned
No exact matches.



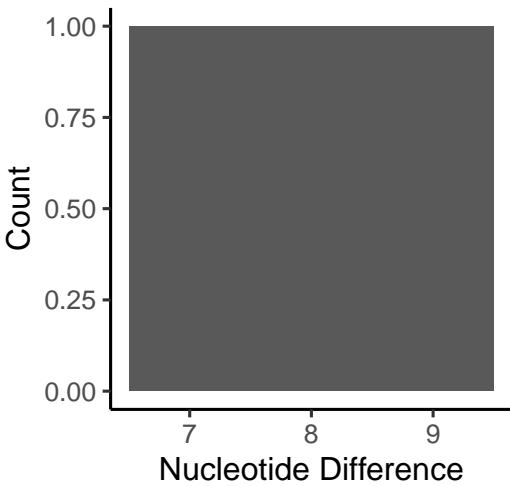
IGHV3-49*04

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



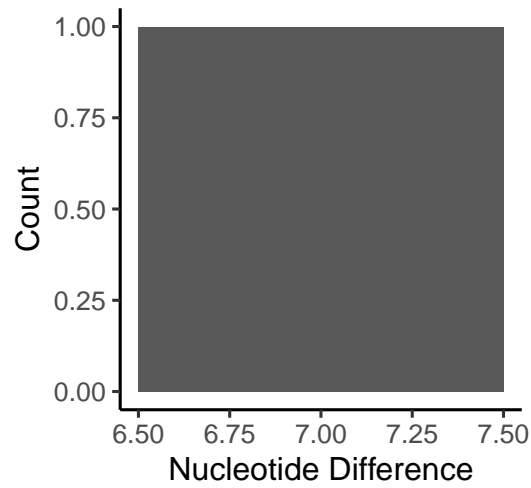
IGHV3-64*01

5 sequences assigned
No exact matches.



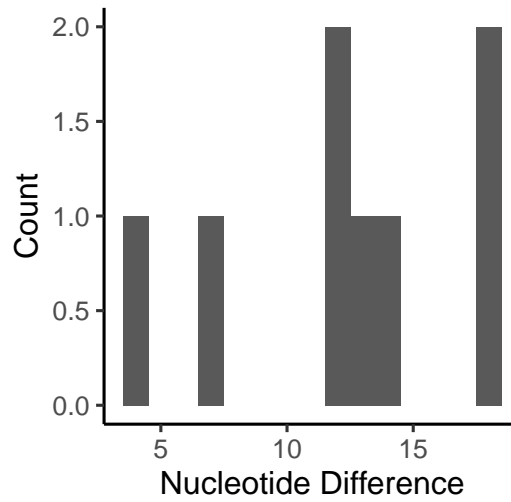
IGHV3-64*04

1 sequences assigned
No exact matches.



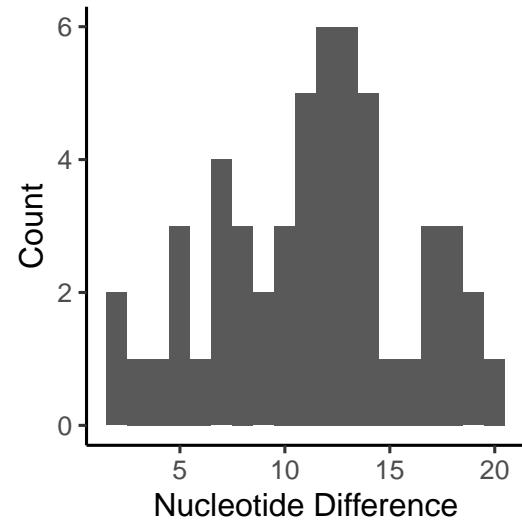
IGHV3-66*02

11 sequences assigned
No exact matches.



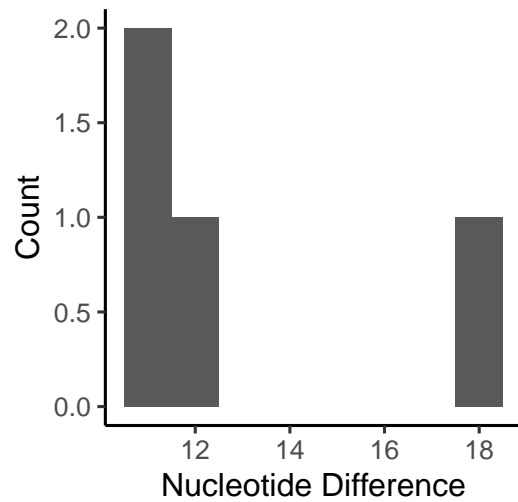
IGHV3-72*01

57 sequences assigned
No exact matches.



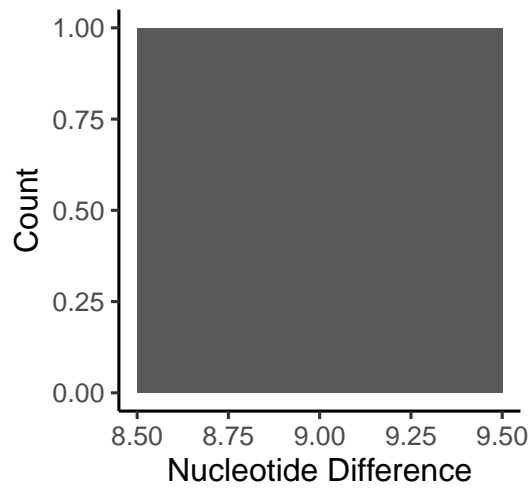
IGHV3-64*02_07

5 sequences assigned
No exact matches.



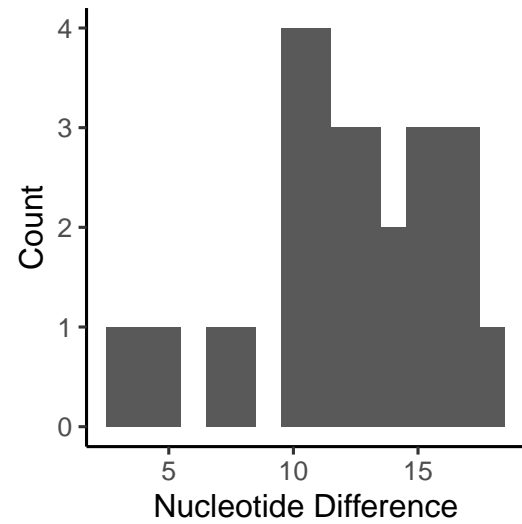
IGHV3-66*03

2 sequences assigned
No exact matches.



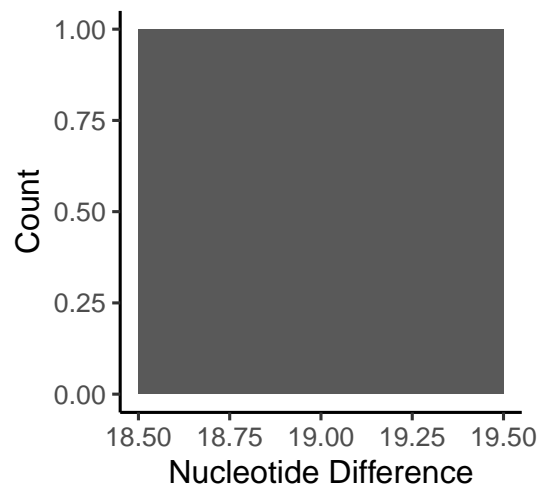
IGHV3-73*01_02

38 sequences assigned
No exact matches.



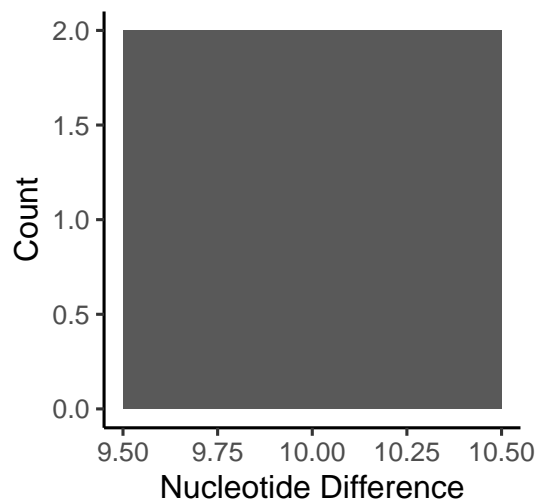
IGHV3-66*01

1 sequences assigned
No exact matches.



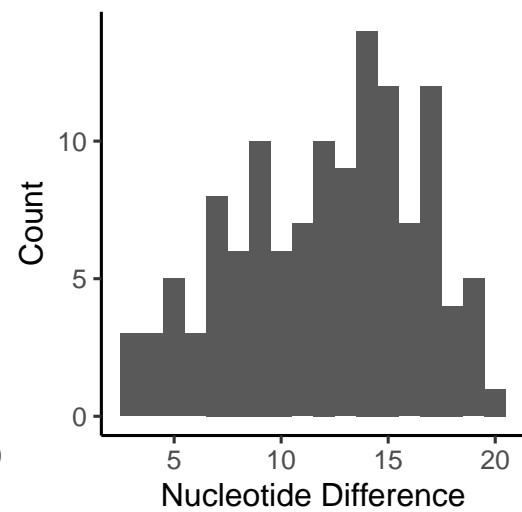
IGHV3-69-1*01

6 sequences assigned
No exact matches.



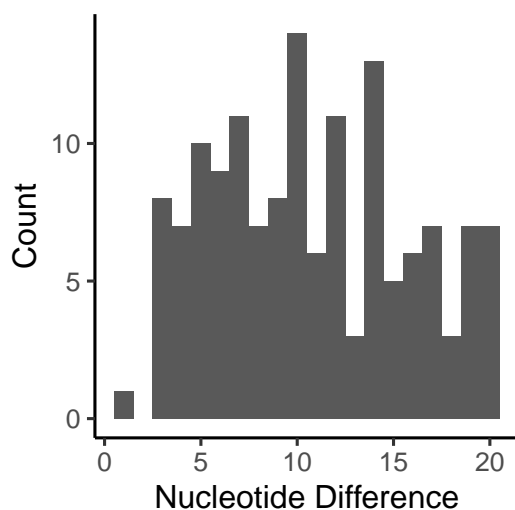
IGHV3-74*03

155 sequences assigned
No exact matches.



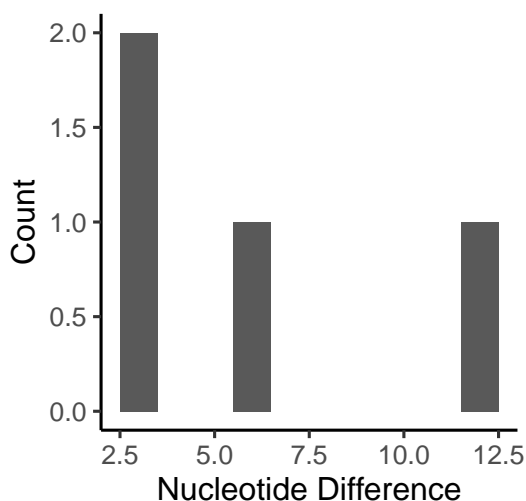
IGHV3-74*01_02

170 sequences assigned
No exact matches.



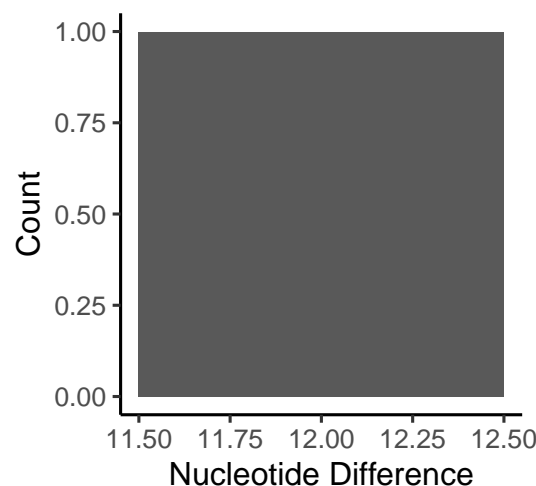
IGHV3-64D*09

6 sequences assigned
No exact matches.



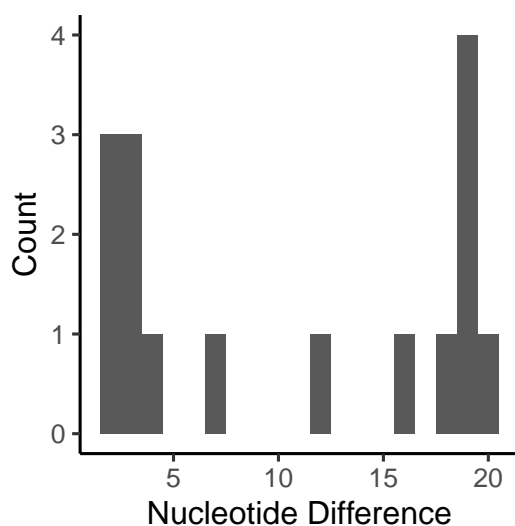
IGHV4-28*01_07

1 sequences assigned
No exact matches.



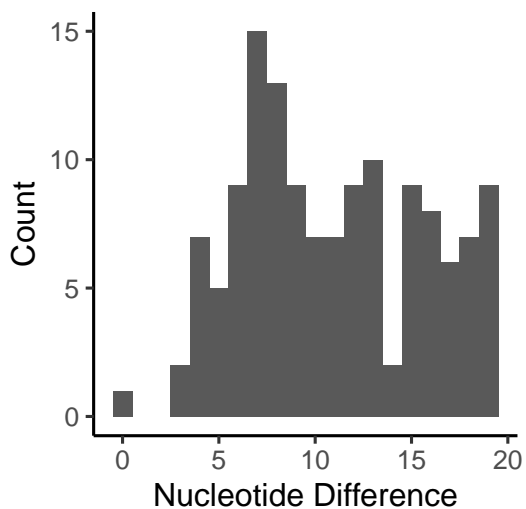
IGHV3-43D*03

18 sequences assigned
No exact matches.



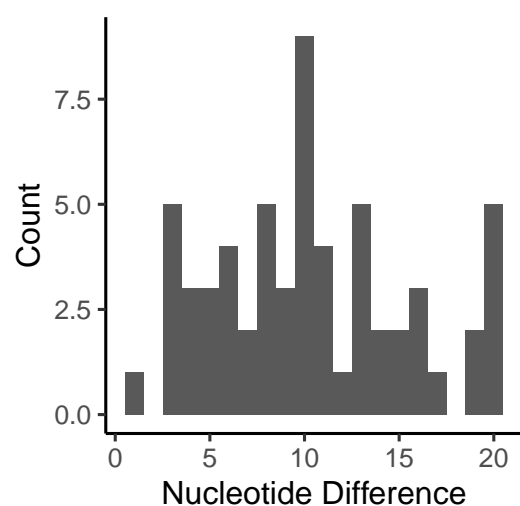
IGHV4-4*07

160 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



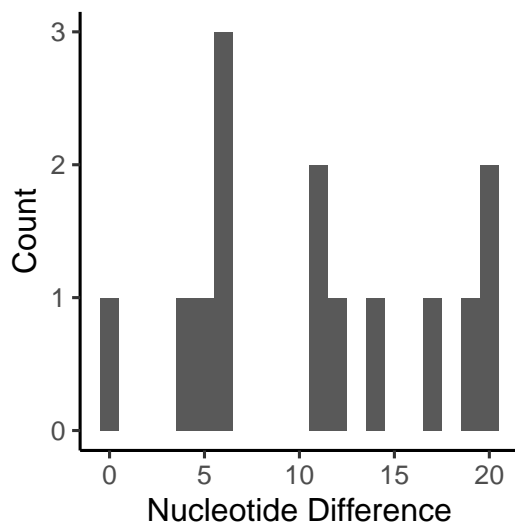
IGHV4-30-4*01

71 sequences assigned
No exact matches.



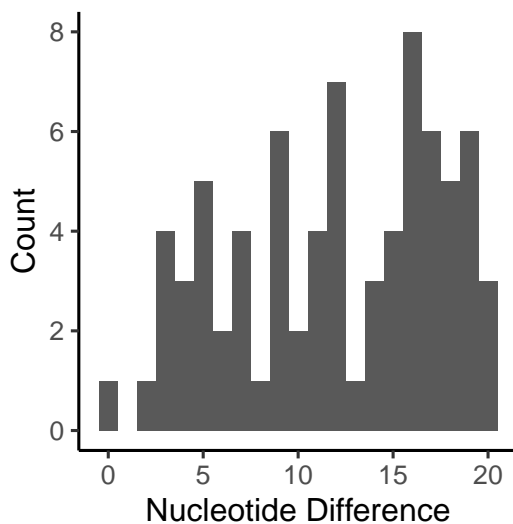
IGHV3-43D*04

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



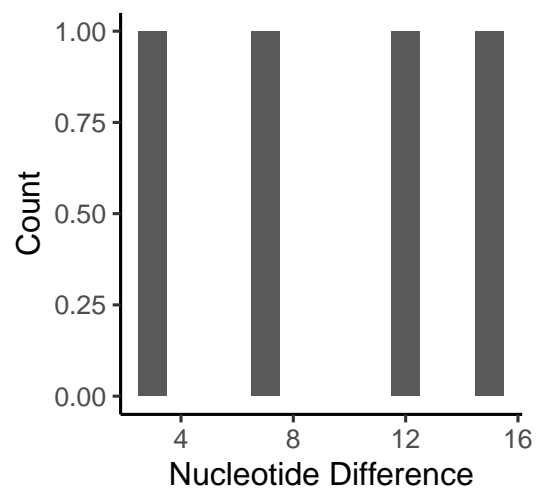
IGHV4-4*02_03

90 sequences assigned
1 (1.1%) exact matches, in which:
1 unique CDR3
1 unique J



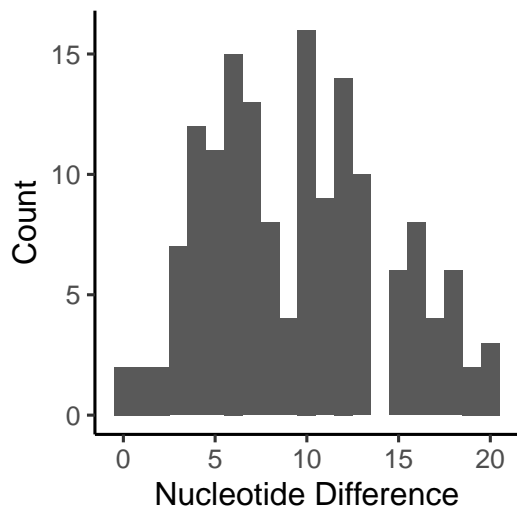
IGHV4-30-2*01

4 sequences assigned
No exact matches.



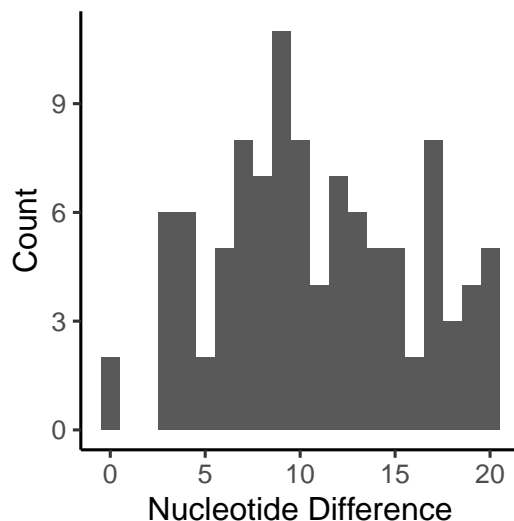
IGHV4-31*02

188 sequences assigned
2 (1.1%) exact matches, in which:
2 unique CDR3
2 unique J



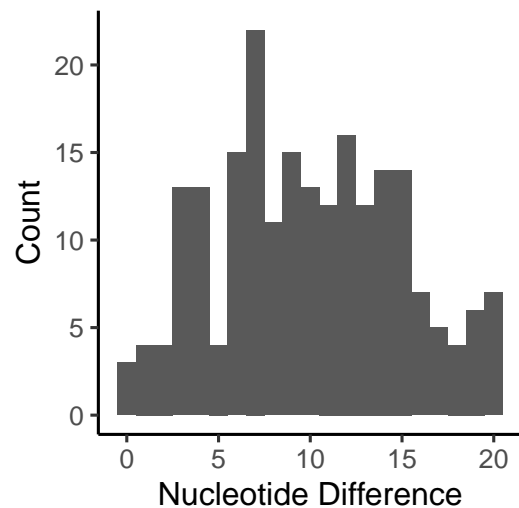
IGHV4-38-2*02

128 sequences assigned
2 (1.6%) exact matches, in which:
2 unique CDR3
2 unique J



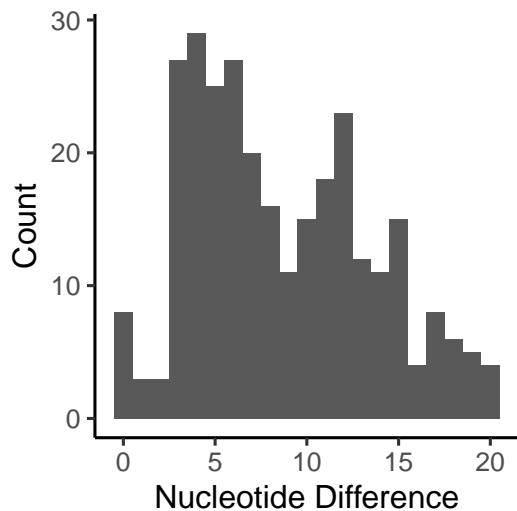
IGHV4-59*01_07

255 sequences assigned
3 (1.2%) exact matches, in which:
3 unique CDR3
2 unique J



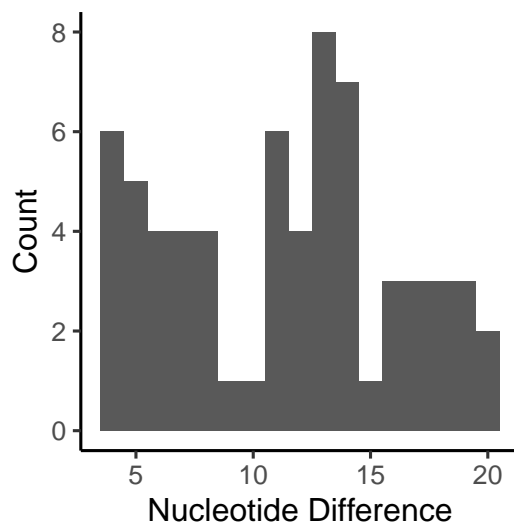
IGHV4-34*01_02

353 sequences assigned
8 (2.3%) exact matches, in which:
6 unique CDR3
2 unique J



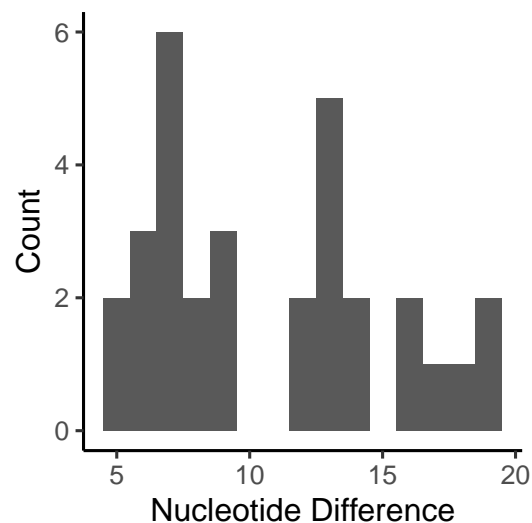
IGHV4-39*02

94 sequences assigned
No exact matches.



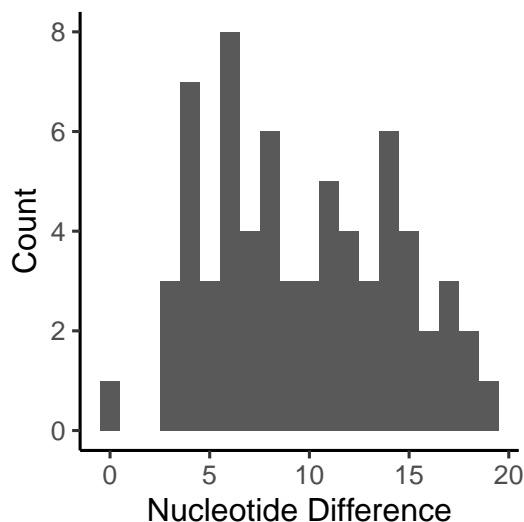
IGHV4-59*11

36 sequences assigned
No exact matches.



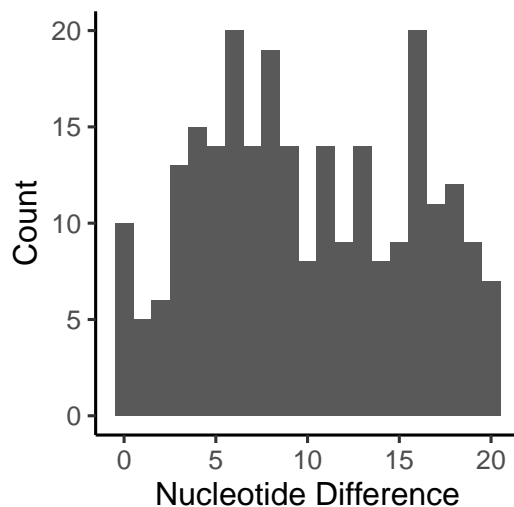
IGHV4-38-2*01

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



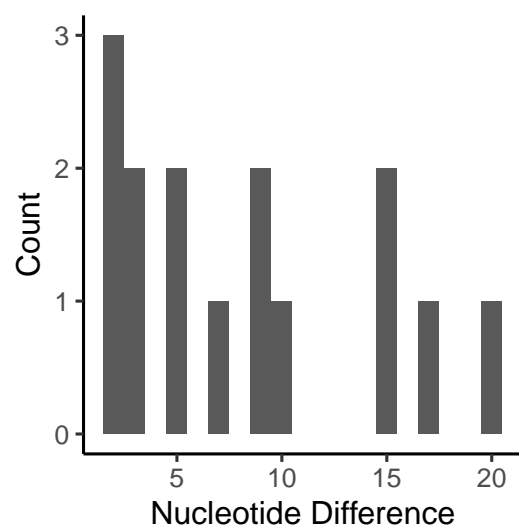
IGHV4-39*07

339 sequences assigned
10 (2.9%) exact matches, in which:
9 unique CDR3
4 unique J



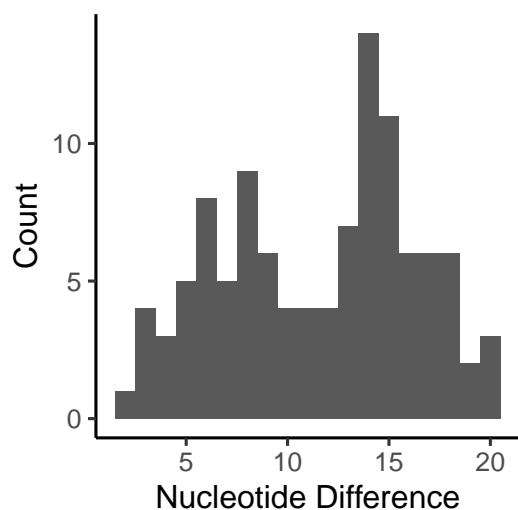
IGHV4-59*12

21 sequences assigned
No exact matches.



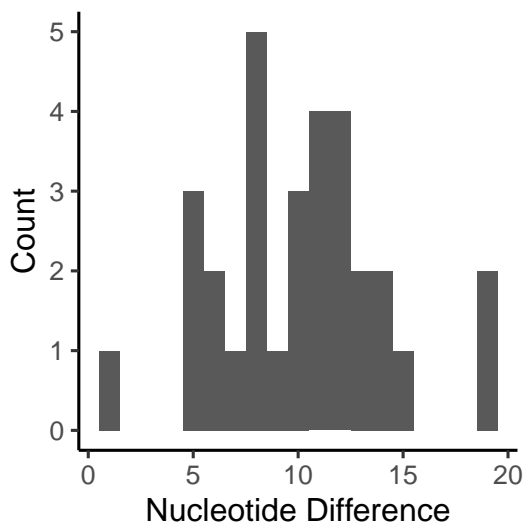
IGHV4-61*01

128 sequences assigned
No exact matches.



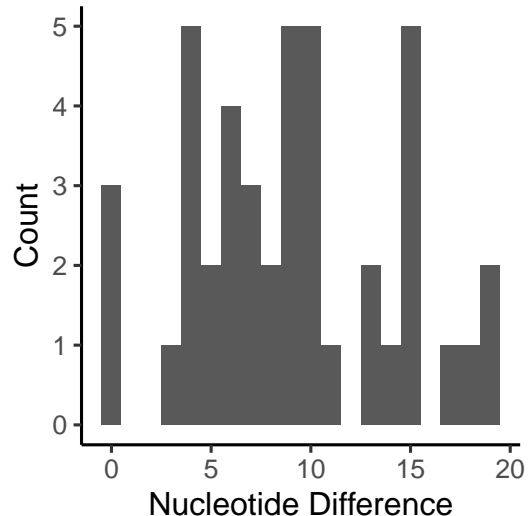
IGHV5-51*07

35 sequences assigned
No exact matches.



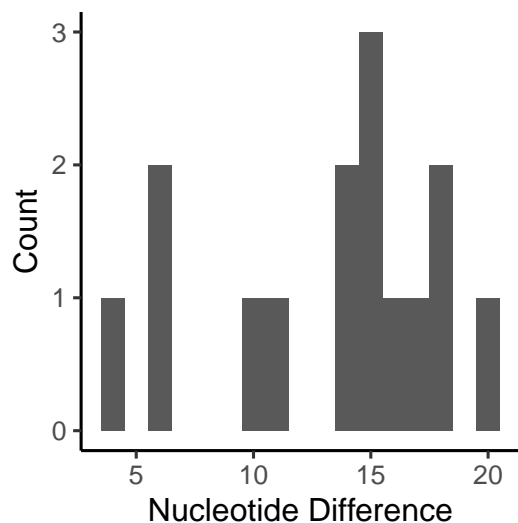
IGHV7-4-1*02

47 sequences assigned
3 (6.4%) exact matches, in which:
3 unique CDR3
2 unique J



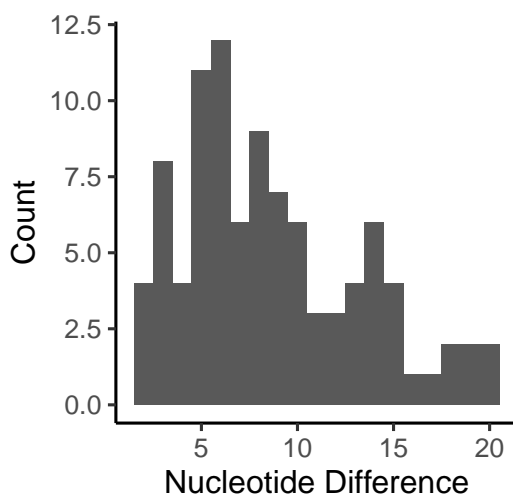
IGHV4-61*08

21 sequences assigned
No exact matches.



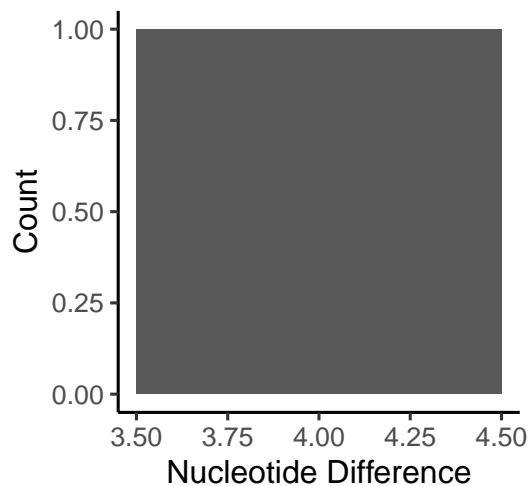
IGHV5-51*01_03

103 sequences assigned
No exact matches.



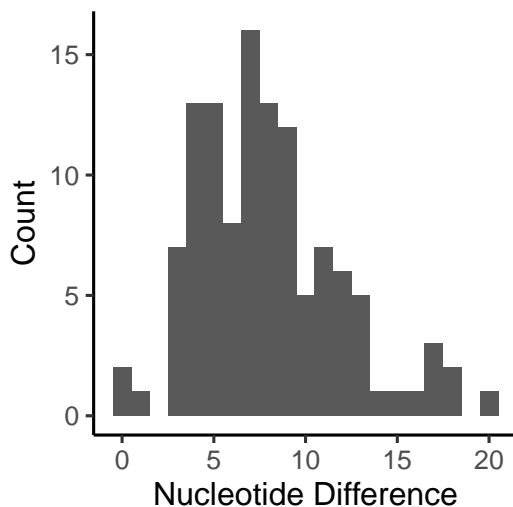
IGHV5-10-1*01_03

1 sequences assigned
No exact matches.



IGHV6-1*01_02

128 sequences assigned
2 (1.6%) exact matches, in which:
2 unique CDR3
2 unique J





[illegible]