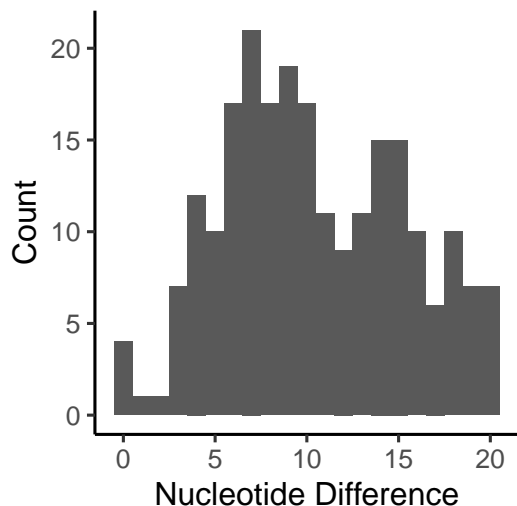


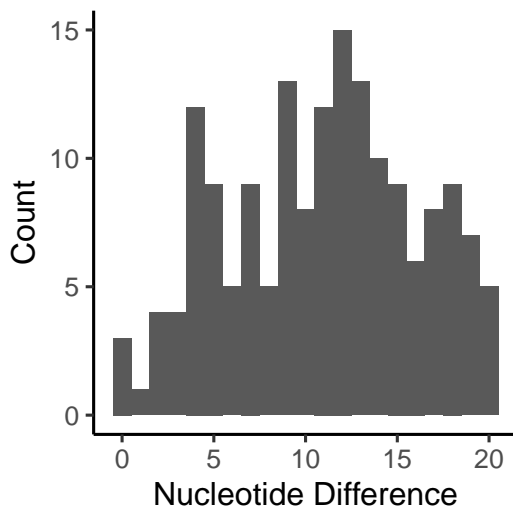
IGHV1-2*02

267 sequences assigned
4 (1.5%) exact matches, in which:
2 unique CDR3
2 unique J



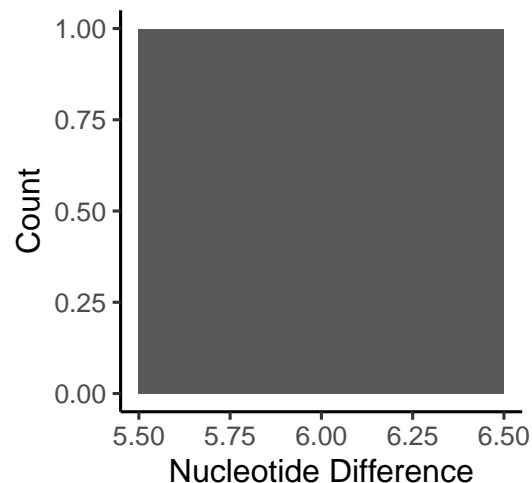
IGHV1-18*01

217 sequences assigned
3 (1.4%) exact matches, in which:
3 unique CDR3
2 unique J



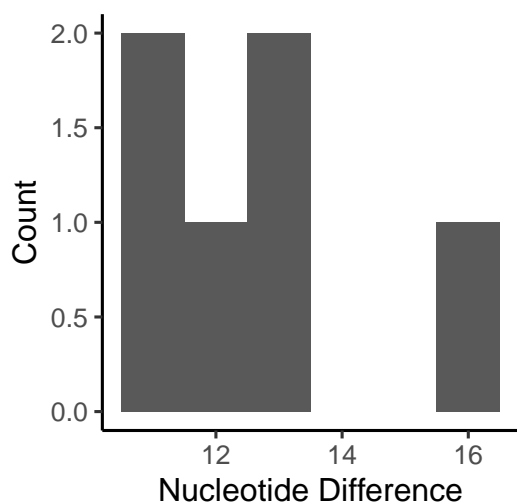
IGHV1-45*02

1 sequences assigned
No exact matches.



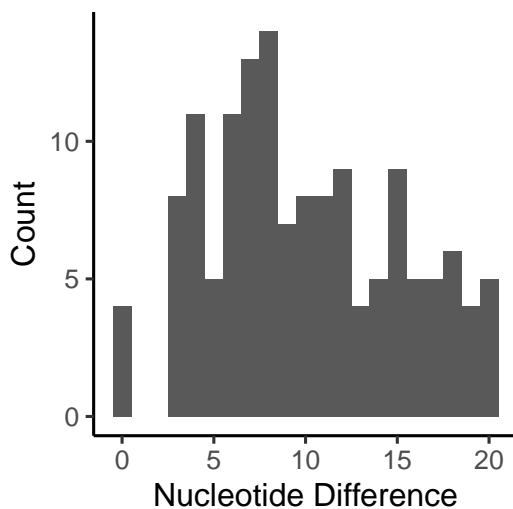
IGHV1-3*04

9 sequences assigned
No exact matches.



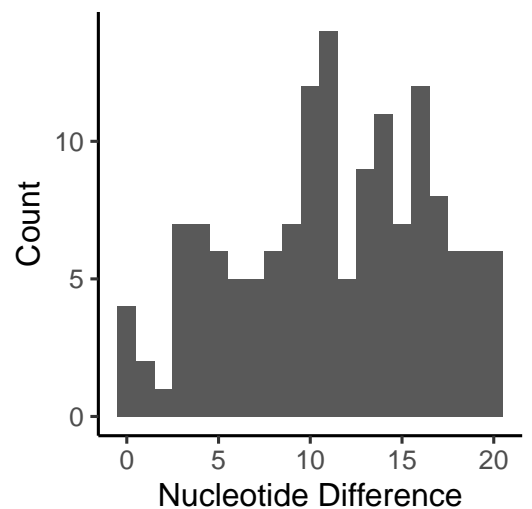
IGHV1-18*04

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



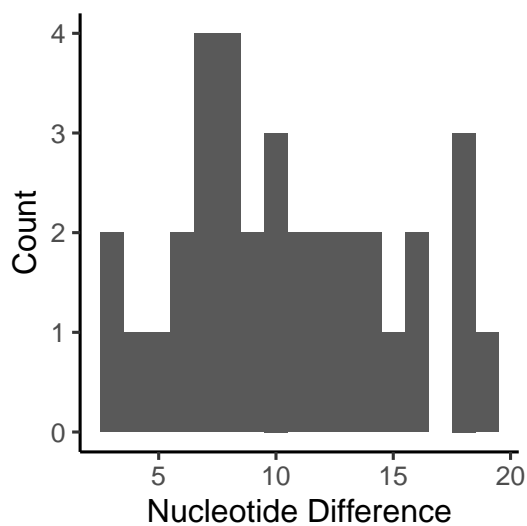
IGHV1-46*01

185 sequences assigned
4 (2.2%) exact matches, in which:
4 unique CDR3
3 unique J



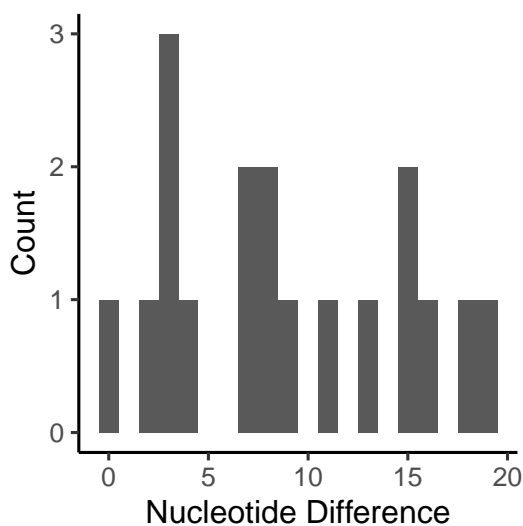
IGHV1-3*01_05

38 sequences assigned
No exact matches.



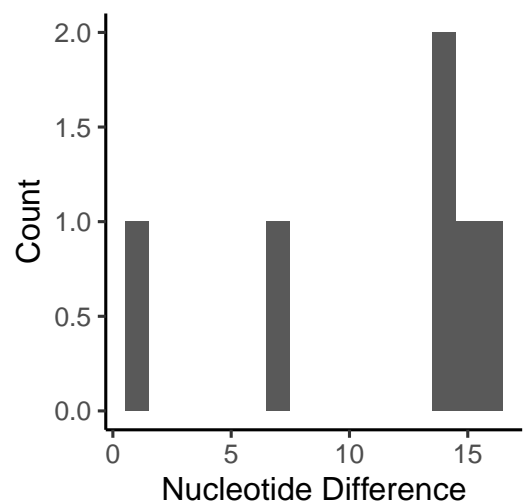
IGHV1-24*01

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



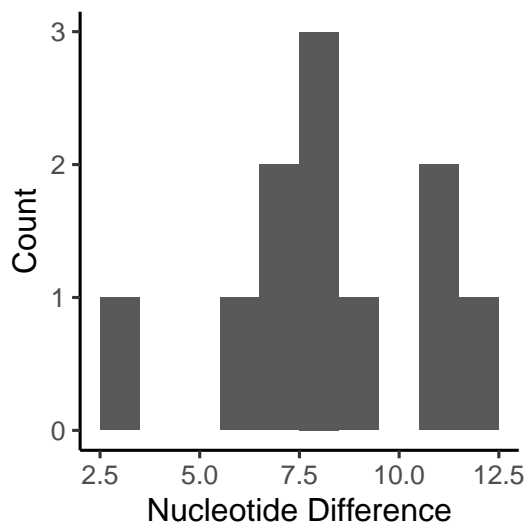
IGHV1-58*02

6 sequences assigned
No exact matches.



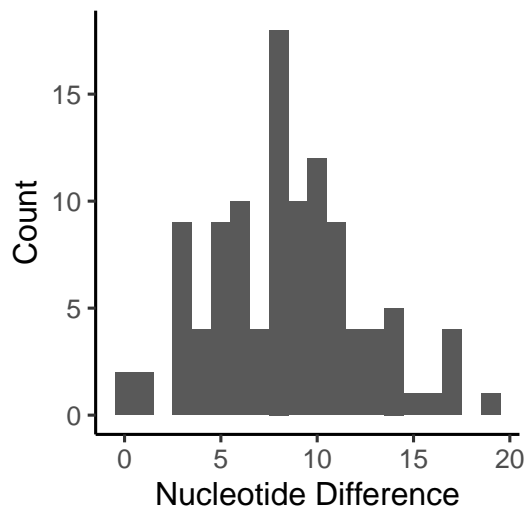
IGHV1-58*01_03

12 sequences assigned
No exact matches.



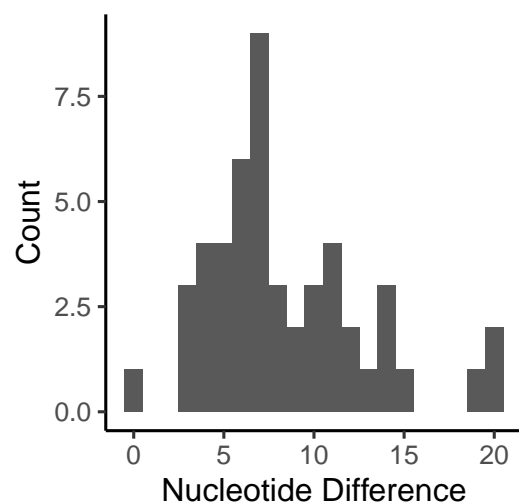
IGHV2-5*02

116 sequences assigned
2 (1.7%) exact matches, in which:
2 unique CDR3
2 unique J



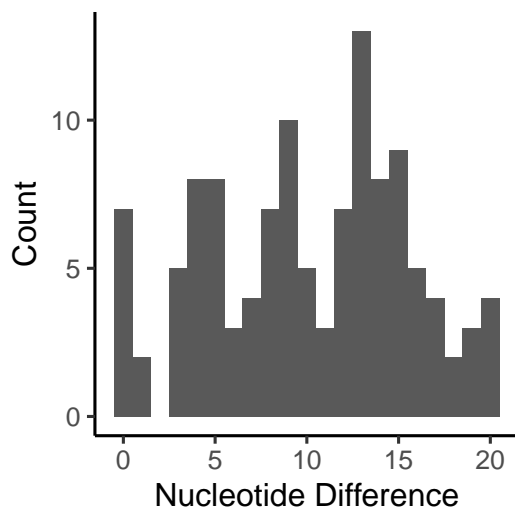
IGHV2-70*04

52 sequences assigned
1 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



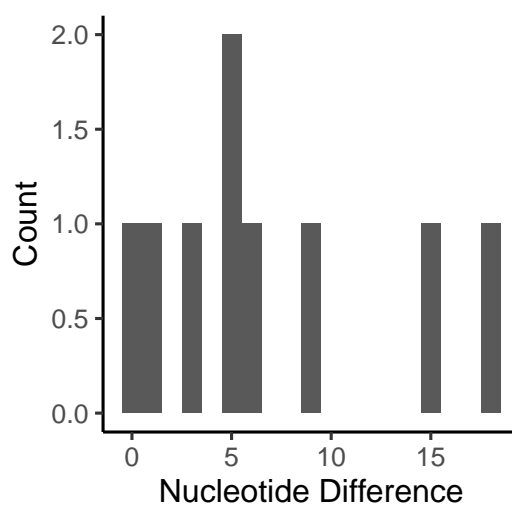
IGHV1-69*01_12_13

144 sequences assigned
7 (4.9%) exact matches, in which:
7 unique CDR3
3 unique J



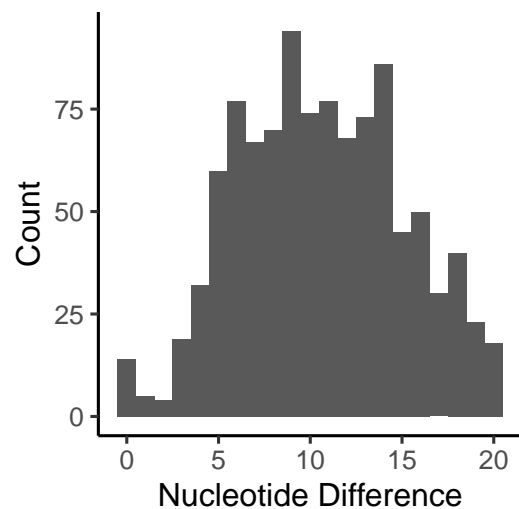
IGHV2-26*01

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



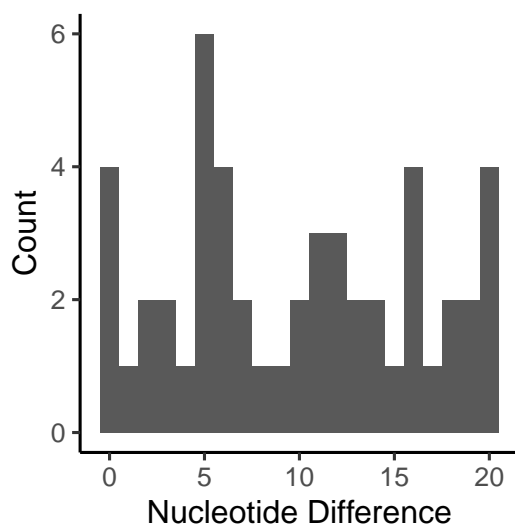
IGHV3-7*03

1107 sequences assigned
14 (1.3%) exact matches, in which:
12 unique CDR3
3 unique J



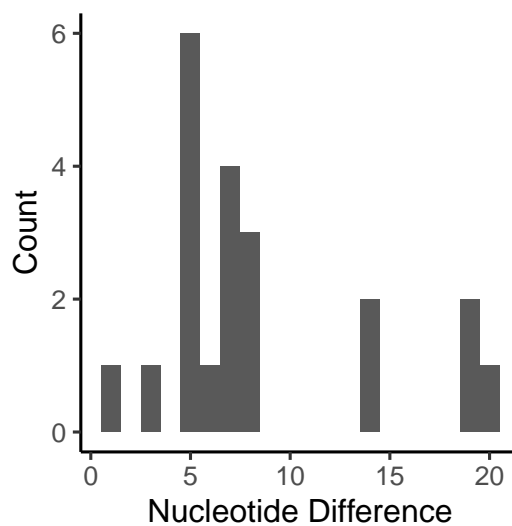
IGHV1-69*06_14

68 sequences assigned
4 (5.9%) exact matches, in which:
4 unique CDR3
3 unique J



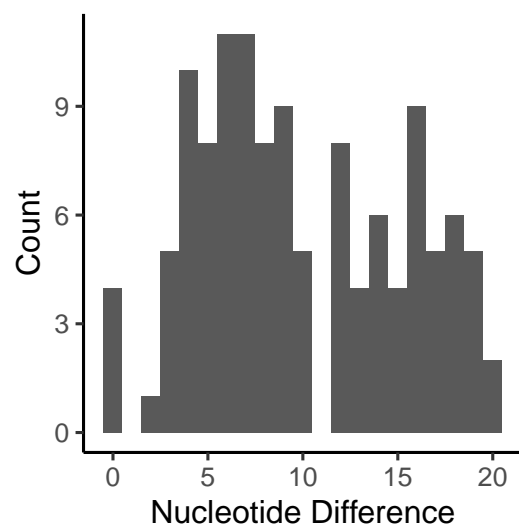
IGHV2-70*01

22 sequences assigned
No exact matches.



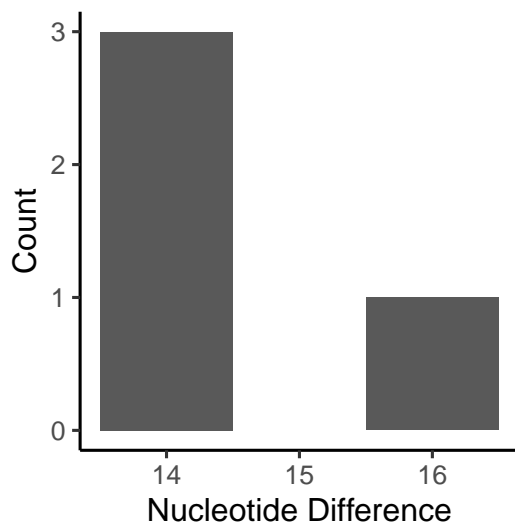
IGHV3-11*06

136 sequences assigned
4 (2.9%) exact matches, in which:
3 unique CDR3
2 unique J



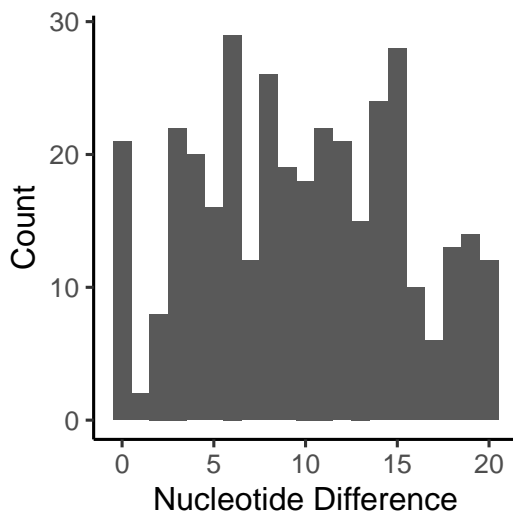
IGHV3-13*01

5 sequences assigned
No exact matches.



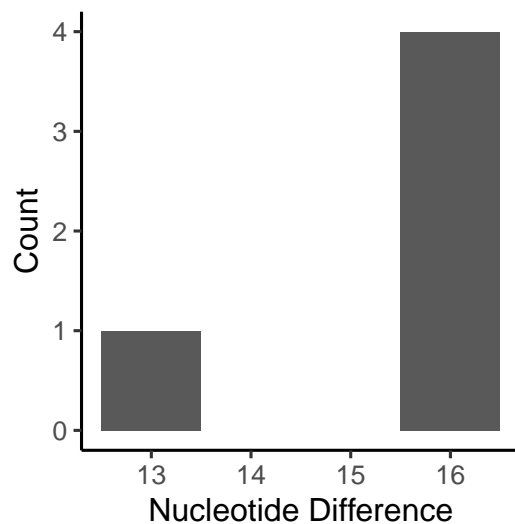
IGHV3-21*01_02

427 sequences assigned
21 (4.9%) exact matches, in which:
16 unique CDR3
4 unique J



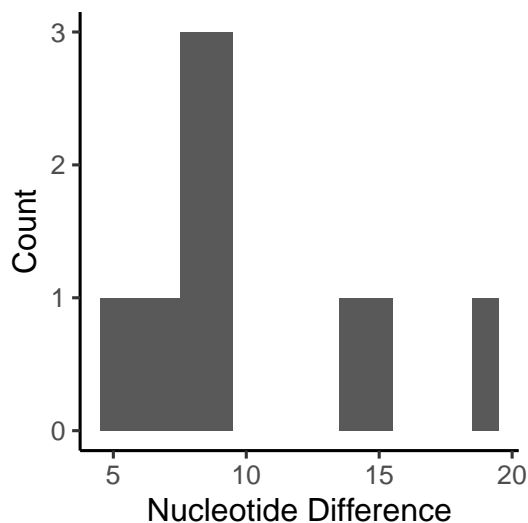
IGHV3-30-3*01

7 sequences assigned
No exact matches.



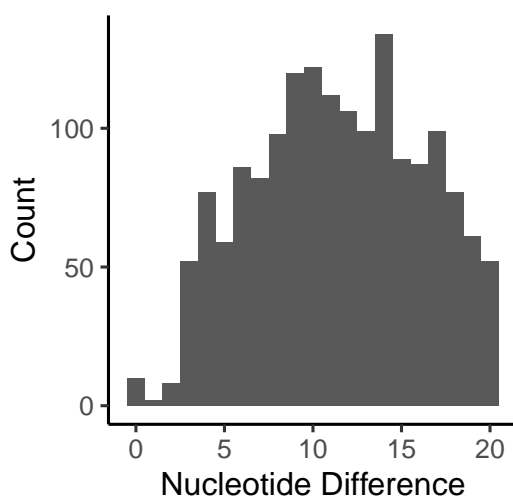
IGHV3-13*05

23 sequences assigned
No exact matches.



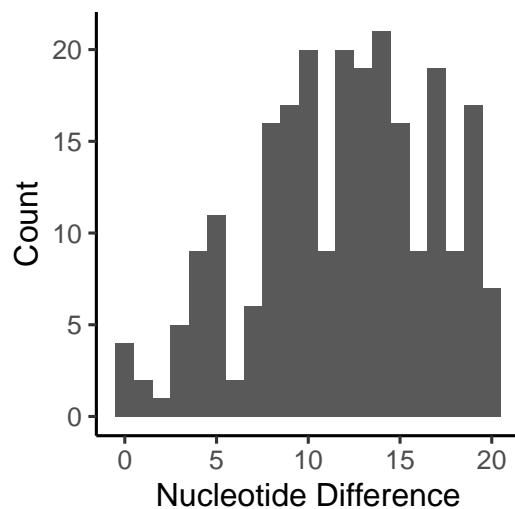
IGHV3-23*01_04

1924 sequences assigned
10 (0.5%) exact matches, in which:
10 unique CDR3
3 unique J



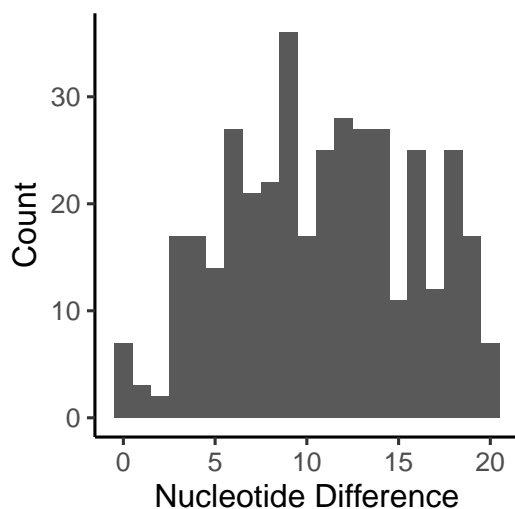
IGHV3-30*18

266 sequences assigned
4 (1.5%) exact matches, in which:
3 unique CDR3
1 unique J



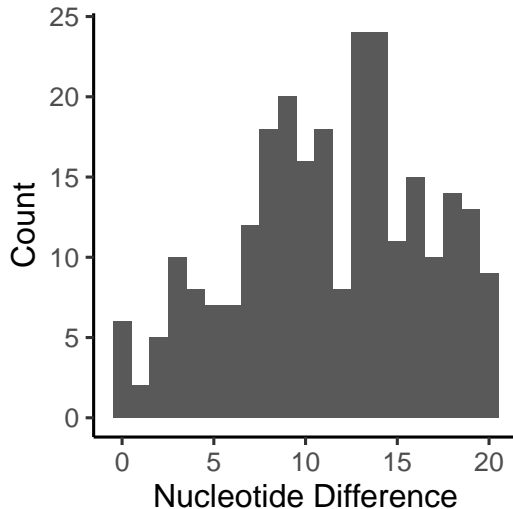
IGHV3-15*01_02

429 sequences assigned
7 (1.6%) exact matches, in which:
6 unique CDR3
3 unique J



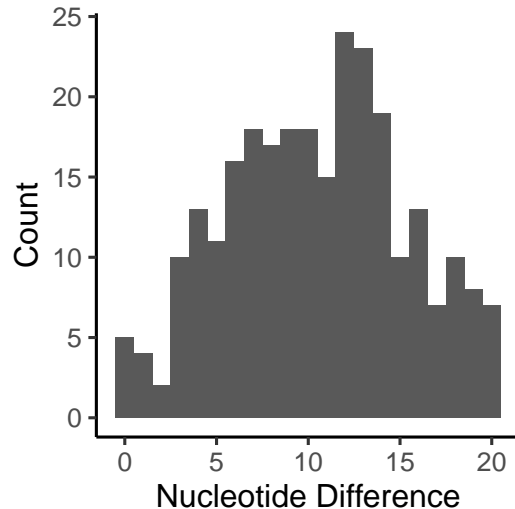
IGHV3-30*01

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



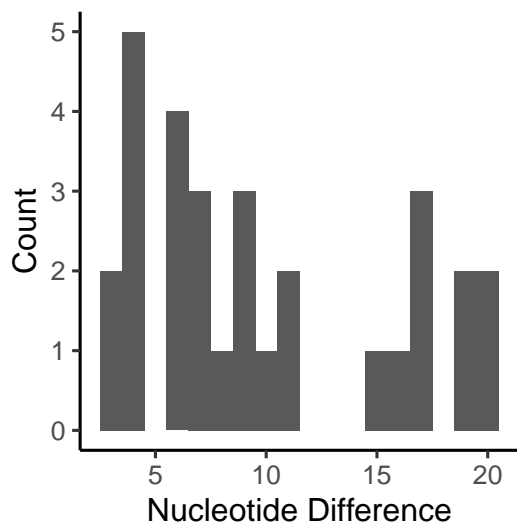
IGHV3-33*01

300 sequences assigned
5 (1.7%) exact matches, in which:
5 unique CDR3
4 unique J



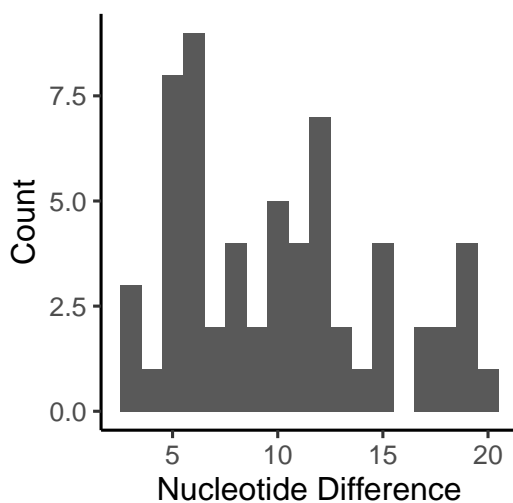
IGHV3-43*01

33 sequences assigned
No exact matches.



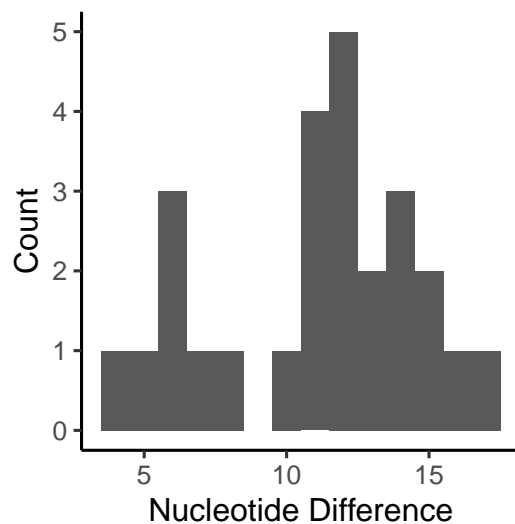
IGHV3-49*04

67 sequences assigned
No exact matches.



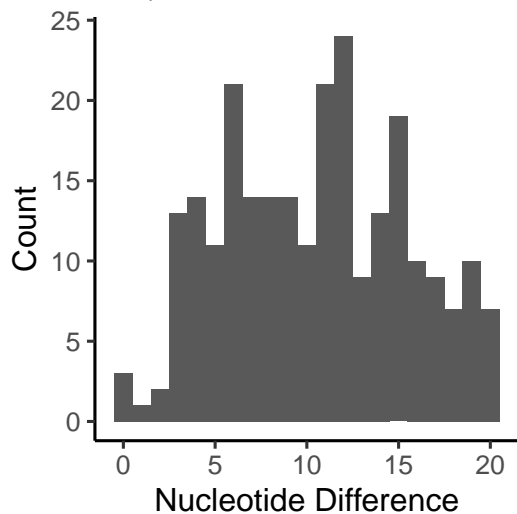
IGHV3-64*01

26 sequences assigned
No exact matches.



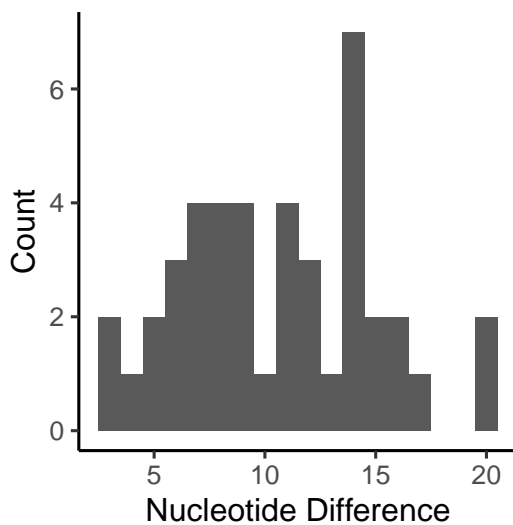
IGHV3-48*01

275 sequences assigned
3 (1.1%) exact matches, in which:
3 unique CDR3
2 unique J



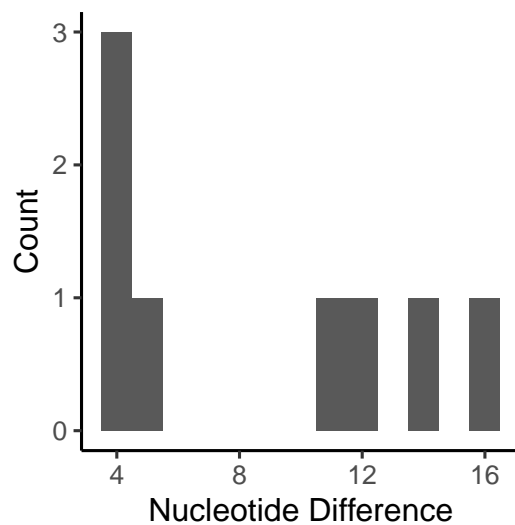
IGHV3-49*03_05

45 sequences assigned
No exact matches.



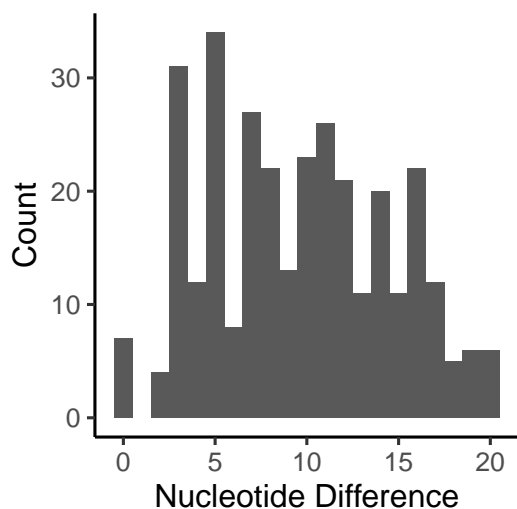
IGHV3-64*02_07

8 sequences assigned
No exact matches.



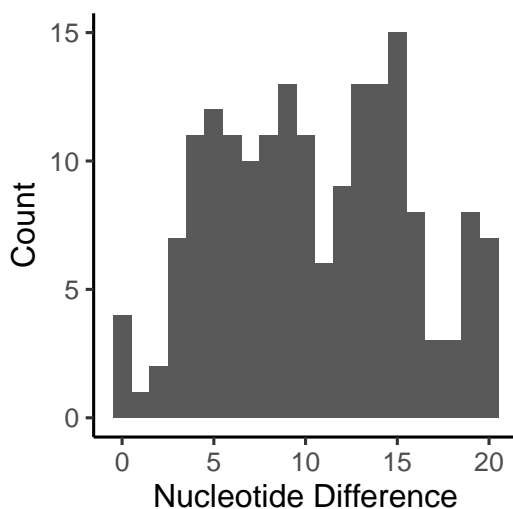
IGHV3-48*03

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



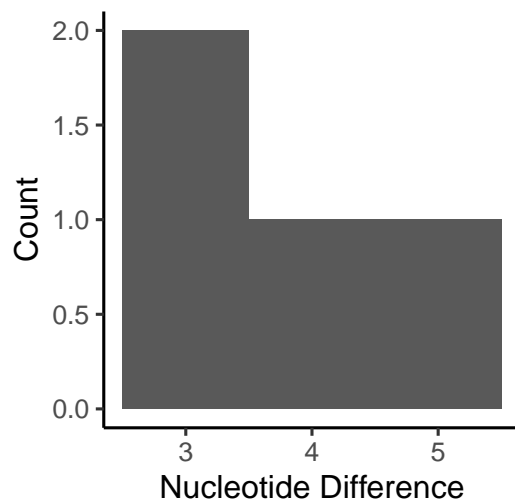
IGHV3-53*01_02

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



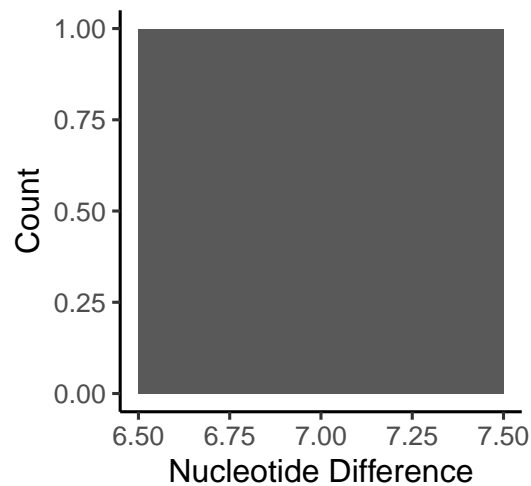
IGHV3-69-1*01

4 sequences assigned
No exact matches.



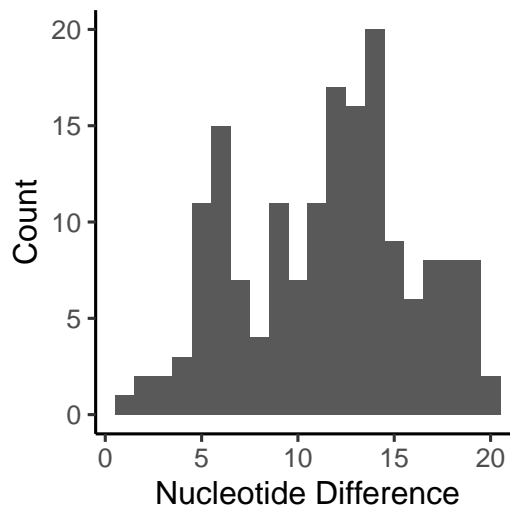
IGHV3-69-1*02

1 sequences assigned
No exact matches.



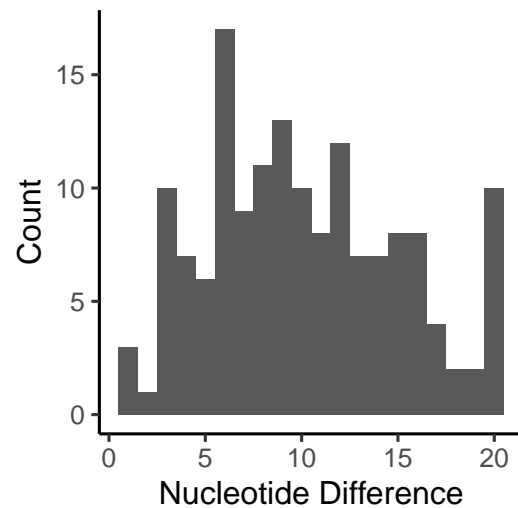
IGHV3-74*03

193 sequences assigned
No exact matches.



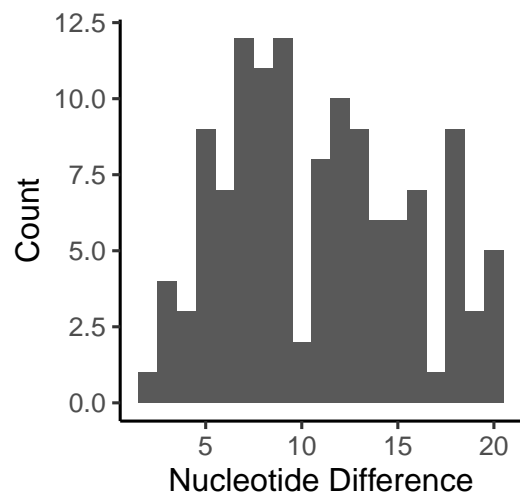
IGHV3-64D*06

184 sequences assigned
No exact matches.



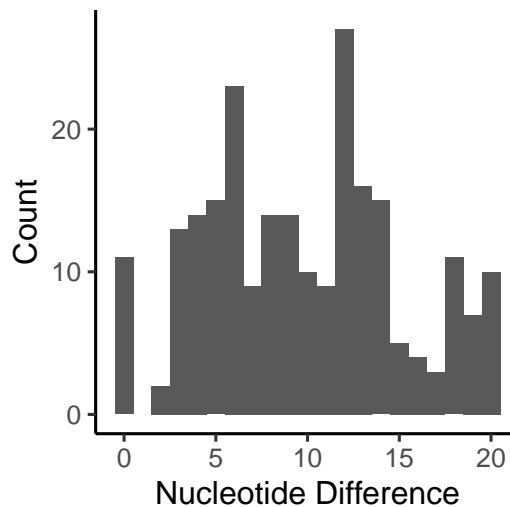
IGHV3-72*01

141 sequences assigned
No exact matches.



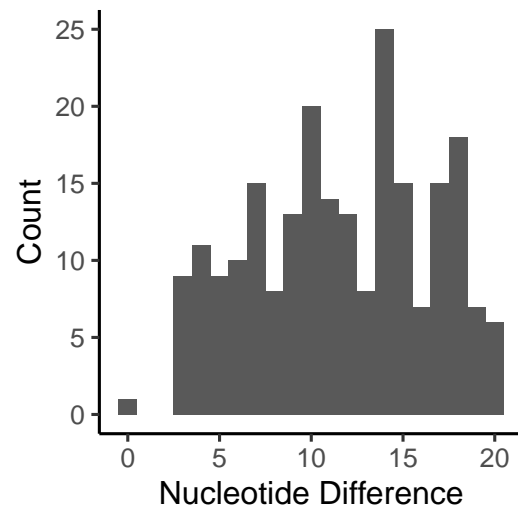
IGHV3-74*01_02

246 sequences assigned
11 (4.5%) exact matches, in which:
10 unique CDR3
3 unique J



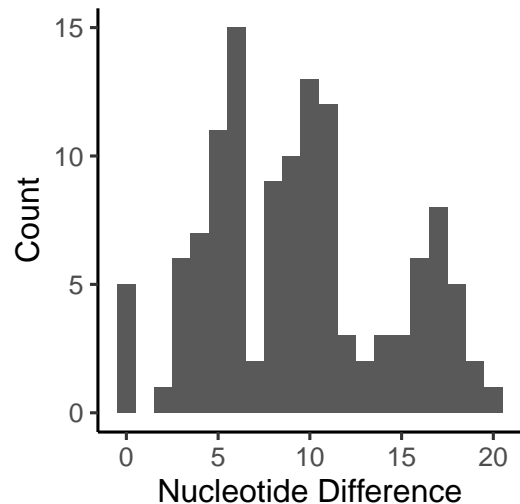
IGHV4-4*07

269 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



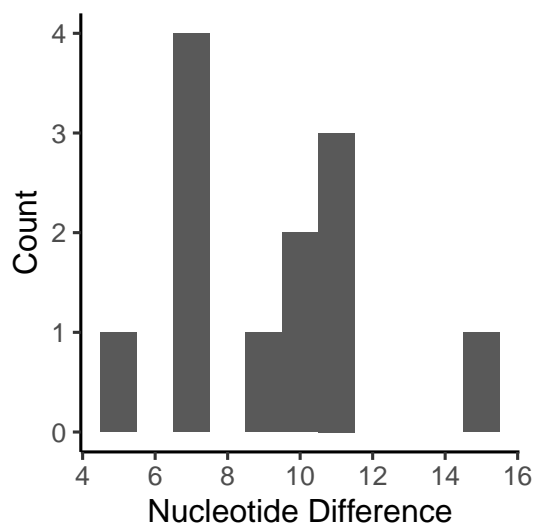
IGHV3-73*01_02

134 sequences assigned
5 (3.7%) exact matches, in which:
5 unique CDR3
2 unique J



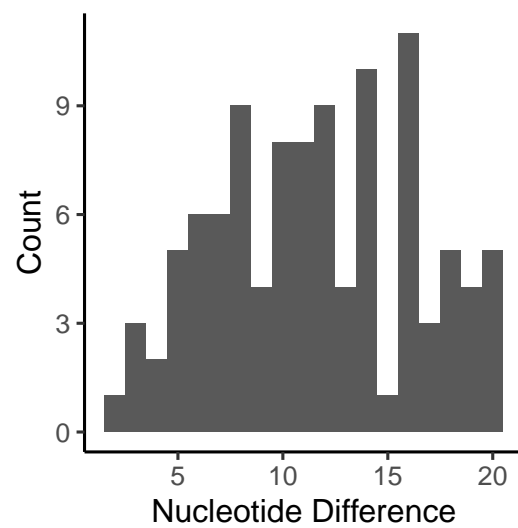
IGHV3-43D*04

14 sequences assigned
No exact matches.



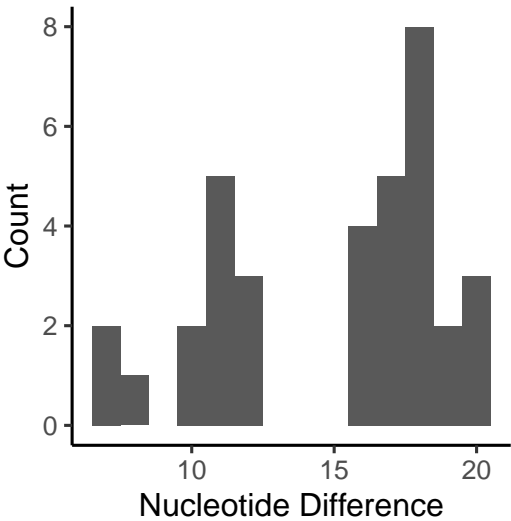
IGHV4-4*02_03

177 sequences assigned
No exact matches.



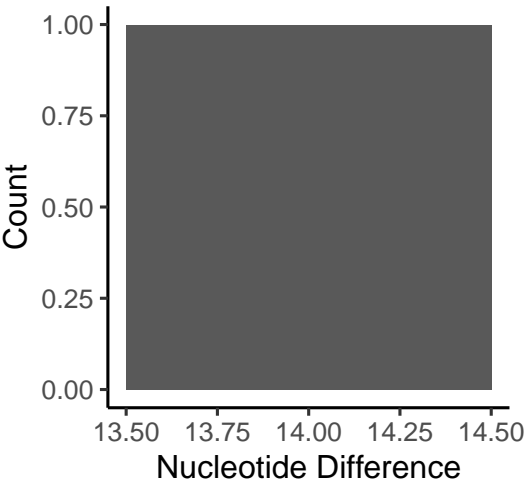
IGHV4-28*01_07

35 sequences assigned
No exact matches.



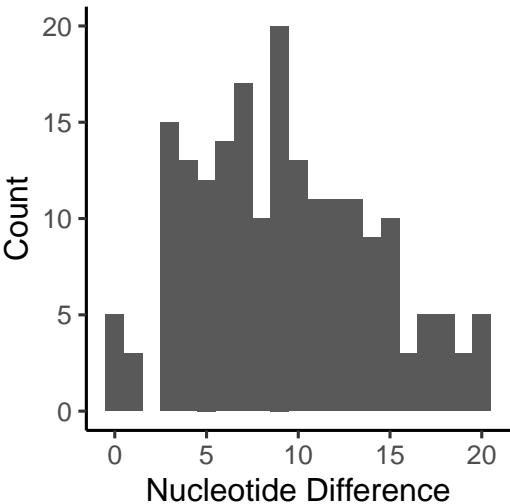
IGHV4-30-4*08

1 sequences assigned
No exact matches.



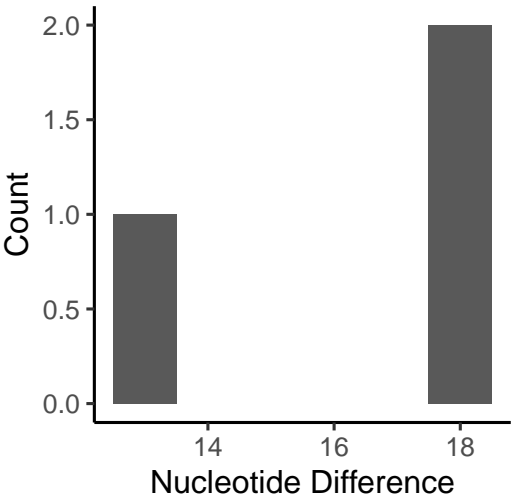
IGHV4-34*01_02

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



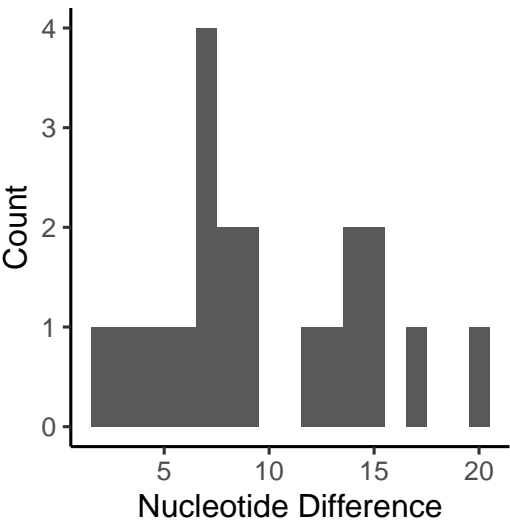
IGHV4-28*02_05

3 sequences assigned
No exact matches.



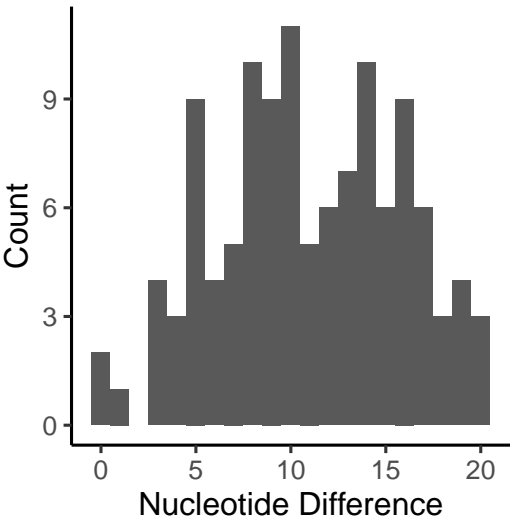
IGHV4-31*01

23 sequences assigned
No exact matches.



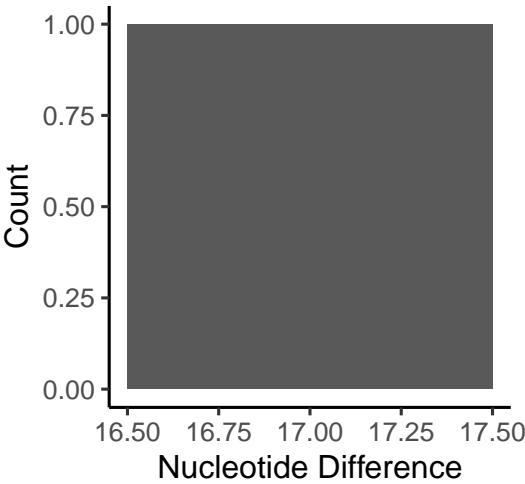
IGHV4-38-2*01

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



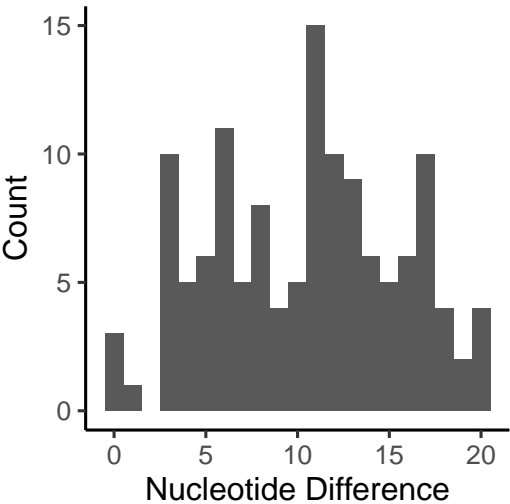
IGHV4-30-2*01

1 sequences assigned
No exact matches.



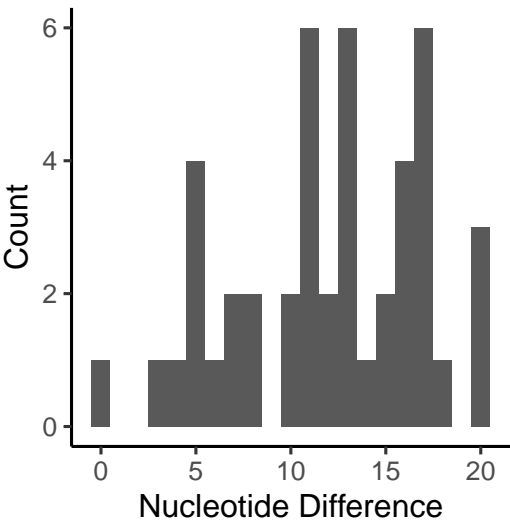
IGHV4-31*02

183 sequences assigned
3 (1.6%) exact matches, in which:
2 unique CDR3
1 unique J



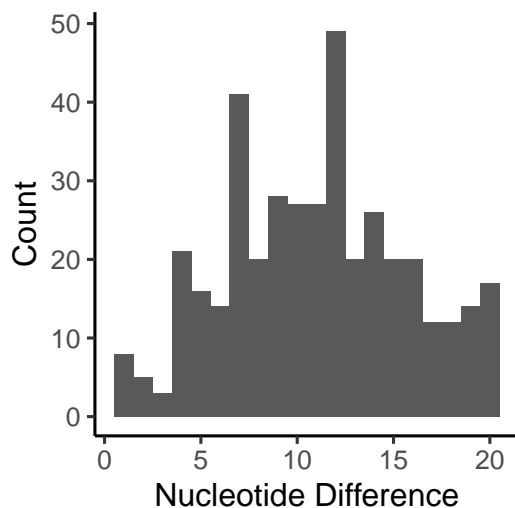
IGHV4-38-2*02

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



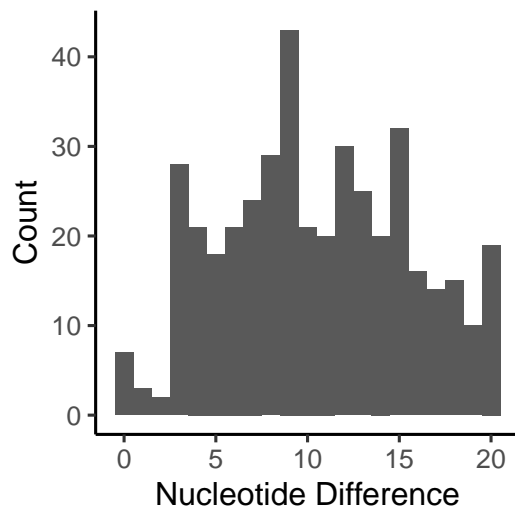
IGHV4-39*02

461 sequences assigned
No exact matches.



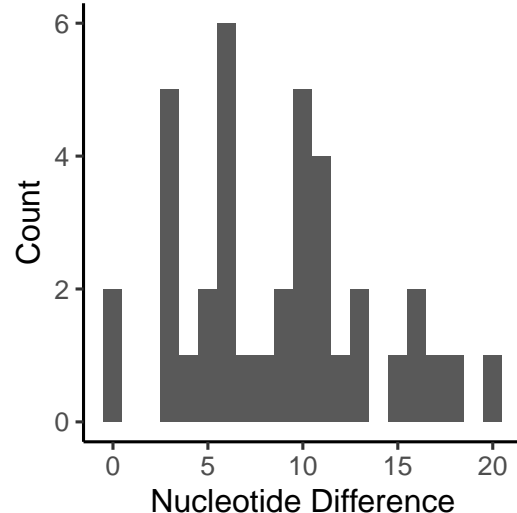
IGHV4-59*01_07

474 sequences assigned
7 (1.5%) exact matches, in which:
6 unique CDR3
2 unique J



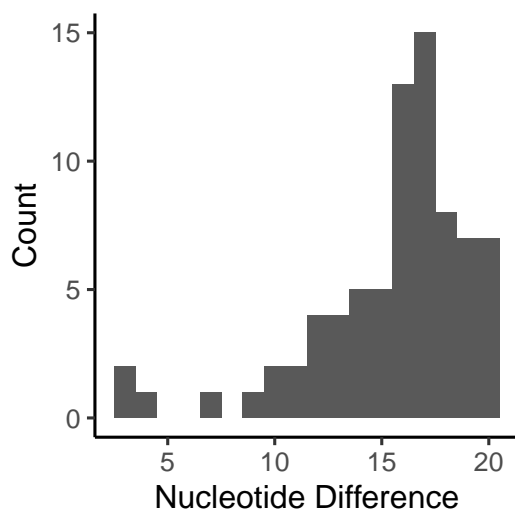
IGHV5-10-1*01_03

41 sequences assigned
2 (4.9%) exact matches, in which:
2 unique CDR3
1 unique J



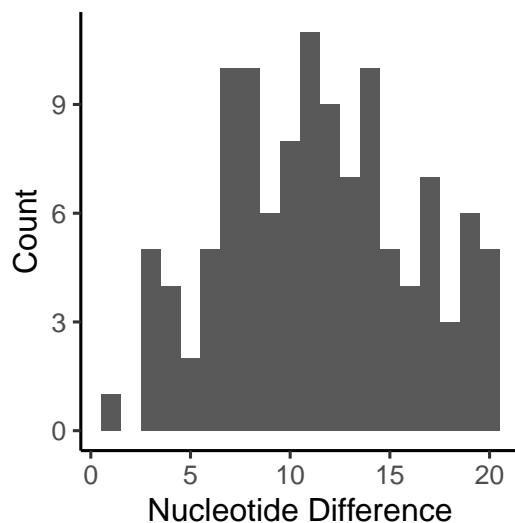
IGHV4-59*02

108 sequences assigned
No exact matches.



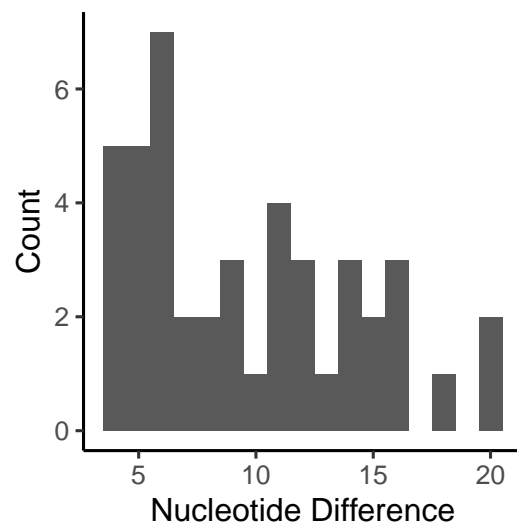
IGHV4-61*01

151 sequences assigned
No exact matches.



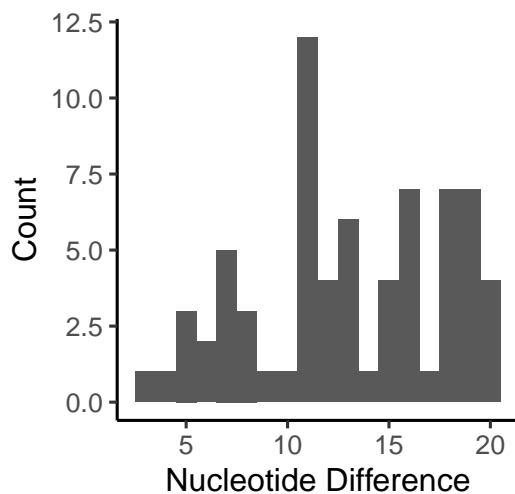
IGHV5-51*07

51 sequences assigned
No exact matches.



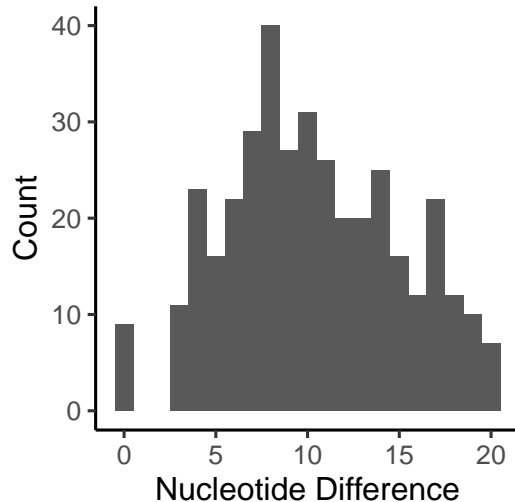
IGHV4-59*11

89 sequences assigned
No exact matches.



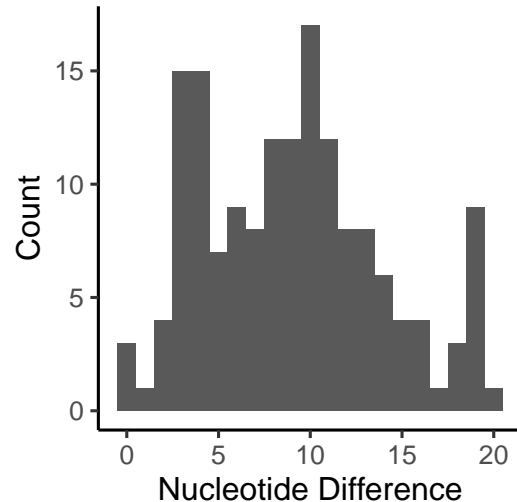
IGHV4-61*02

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



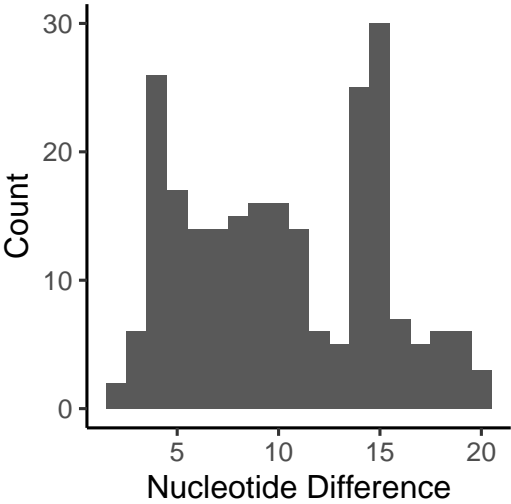
IGHV5-51*01_03

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



IGHV6-1*01_02

240 sequences assigned
No exact matches.





Warning – no inferred sequences found.