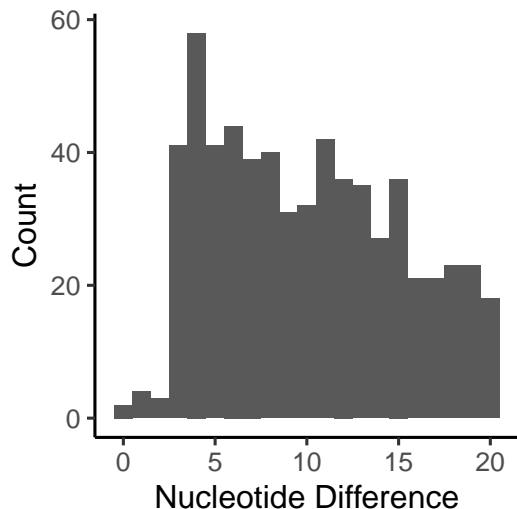


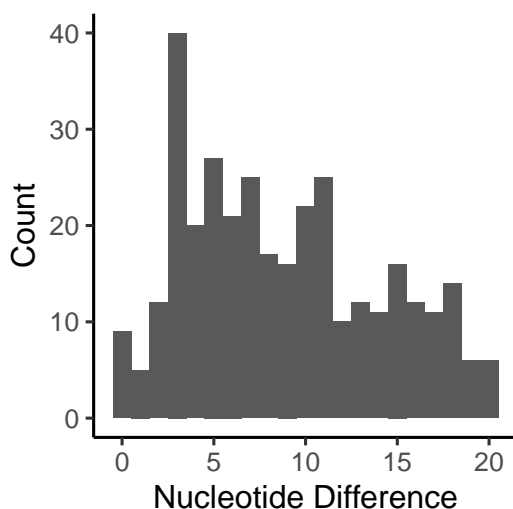
IGHV1-2*02

740 sequences assigned
2 (0.3%) exact matches, in which:
2 unique CDR3
2 unique J



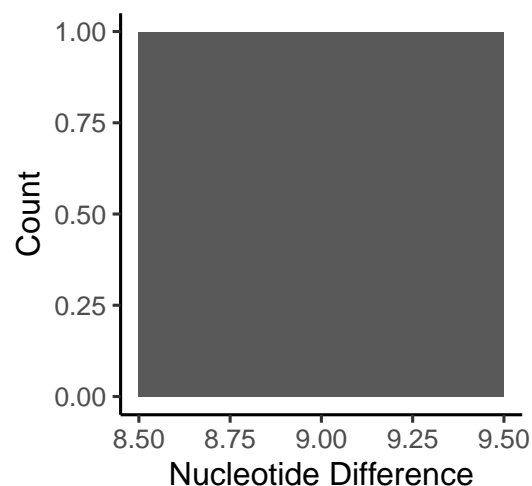
IGHV1-8*01

377 sequences assigned
9 (2.4%) exact matches, in which:
9 unique CDR3
3 unique J



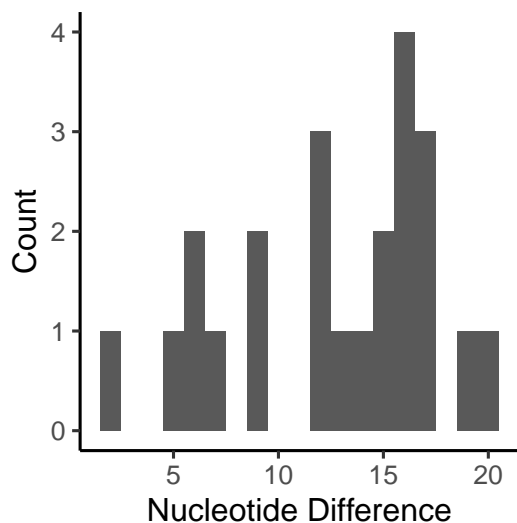
IGHV1-45*02

1 sequences assigned
No exact matches.



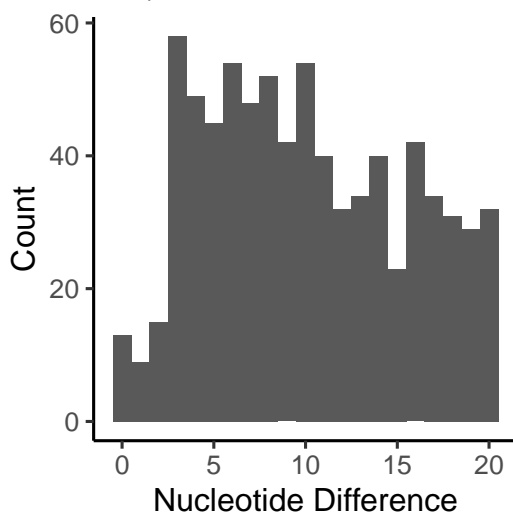
IGHV1-3*04

33 sequences assigned
No exact matches.



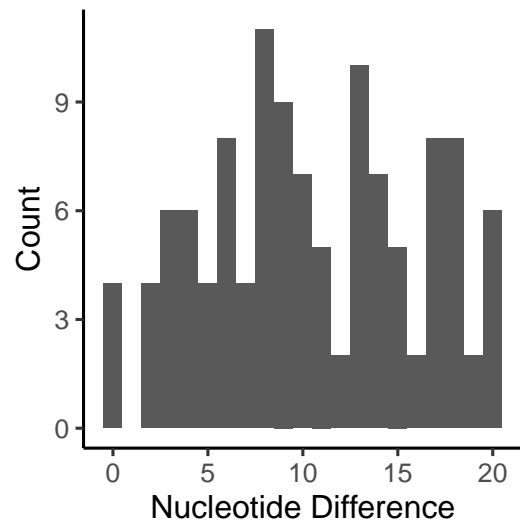
IGHV1-18*01

982 sequences assigned
13 (1.3%) exact matches, in which:
13 unique CDR3
3 unique J



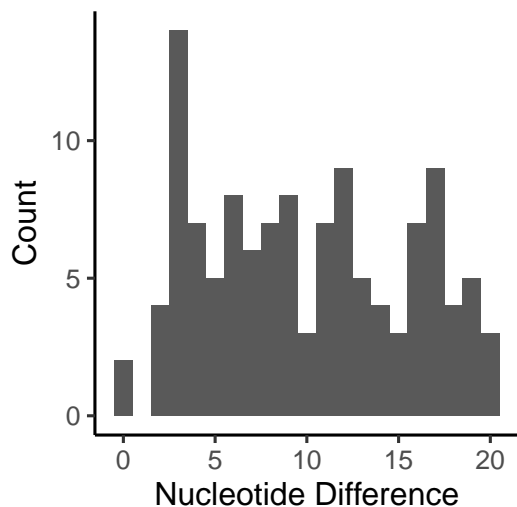
IGHV1-46*01

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



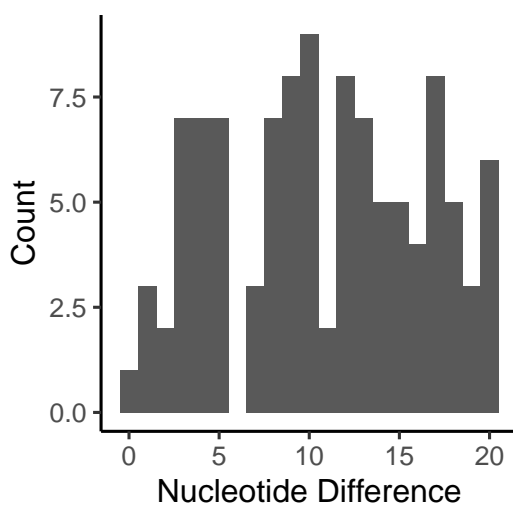
IGHV1-3*01_05

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



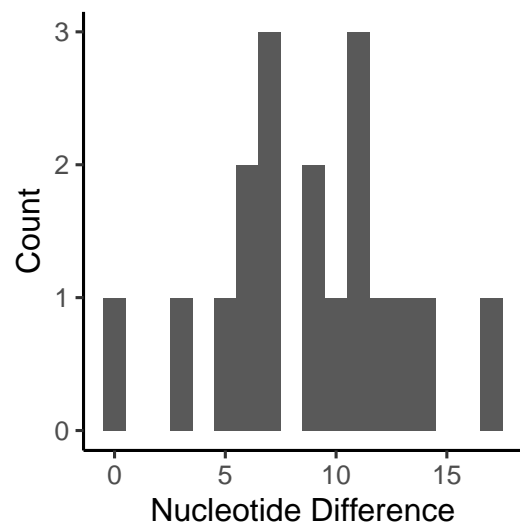
IGHV1-24*01

138 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



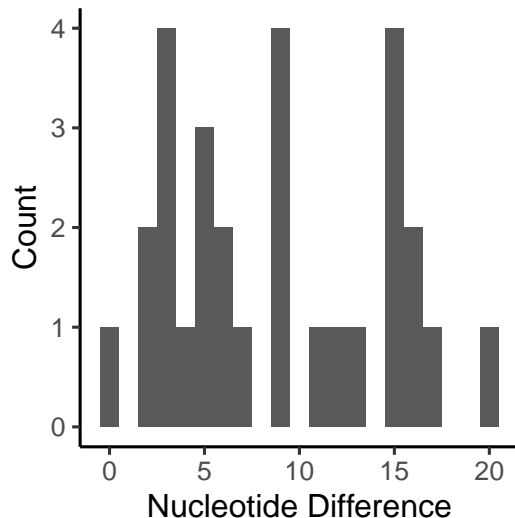
IGHV1-58*02

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



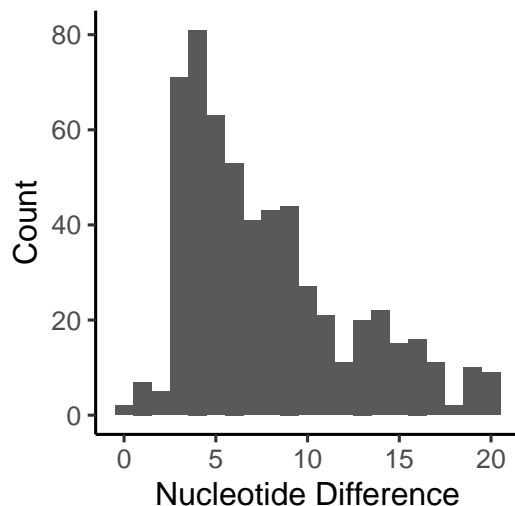
IGHV1-58*01_03

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



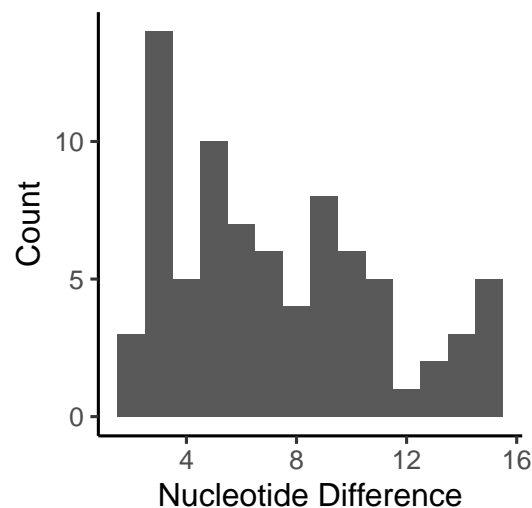
IGHV2-5*02

612 sequences assigned
2 (0.3%) exact matches, in which:
2 unique CDR3
2 unique J



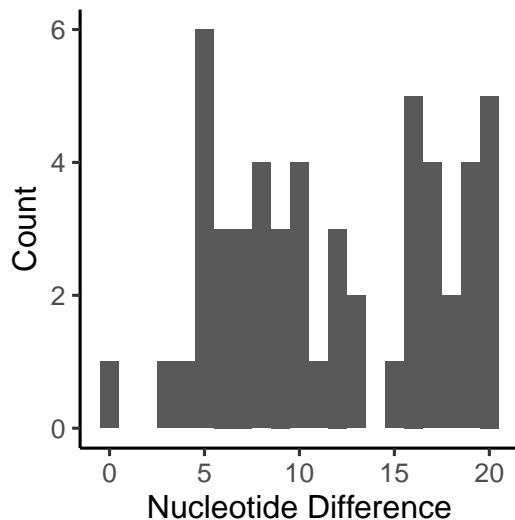
IGHV2-70*11_15

84 sequences assigned
No exact matches.



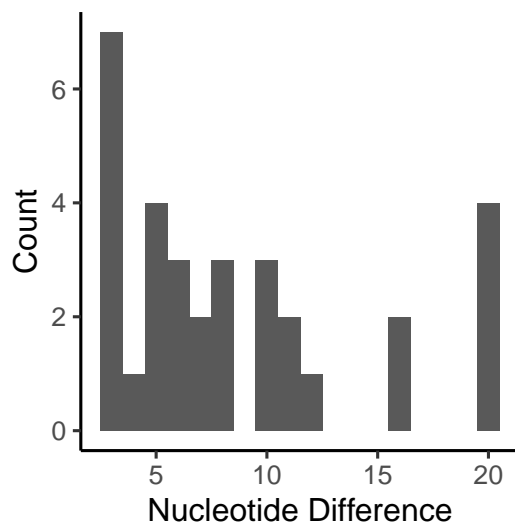
IGHV1-69*04_09

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



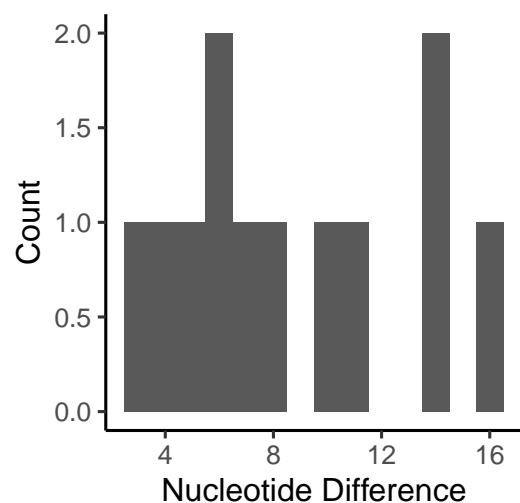
IGHV2-26*01

38 sequences assigned
No exact matches.



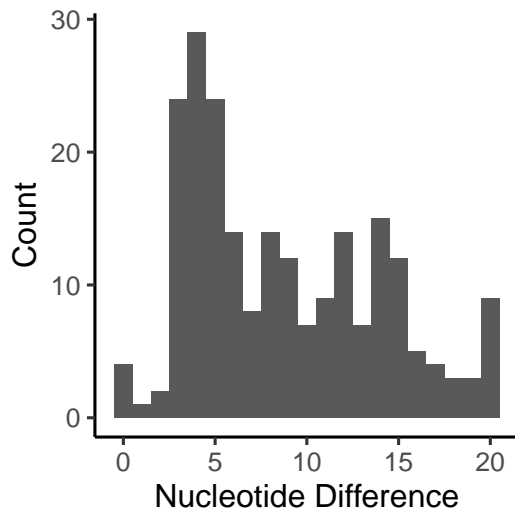
IGHV2-70*16_17

12 sequences assigned
No exact matches.



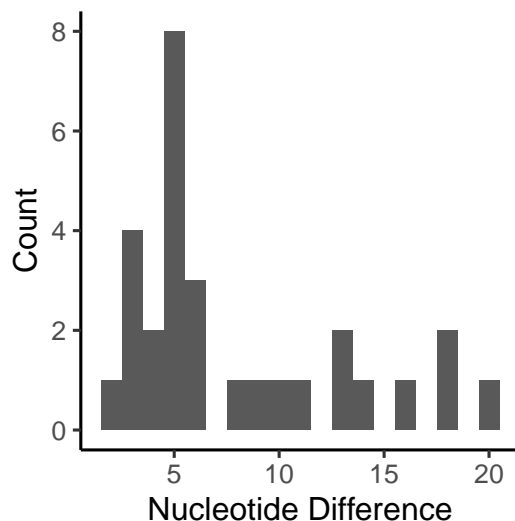
IGHV2-5*01

244 sequences assigned
4 (1.6%) exact matches, in which:
4 unique CDR3
3 unique J



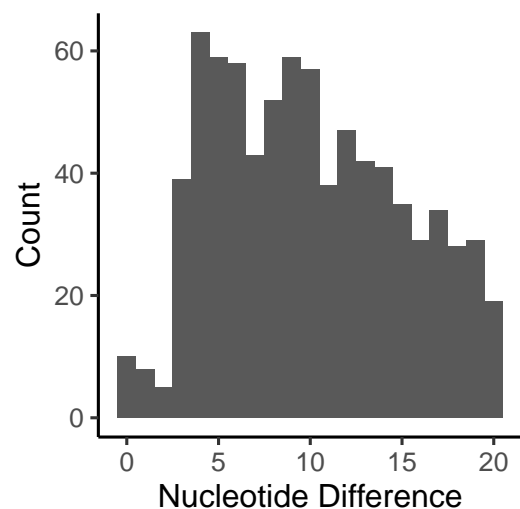
IGHV2-70*01

33 sequences assigned
No exact matches.



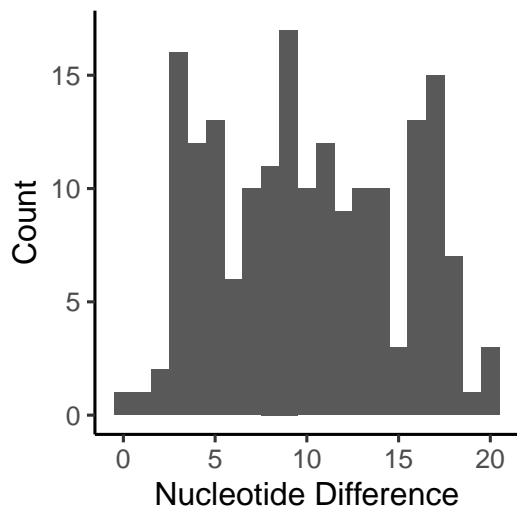
IGHV3-7*01

921 sequences assigned
10 (1.1%) exact matches, in which:
8 unique CDR3
2 unique J



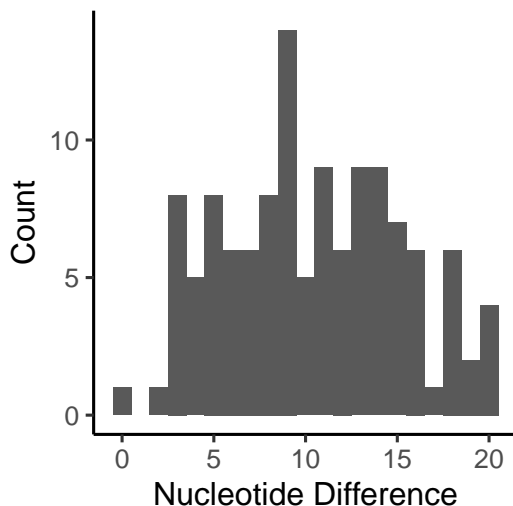
IGHV3-9*01

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



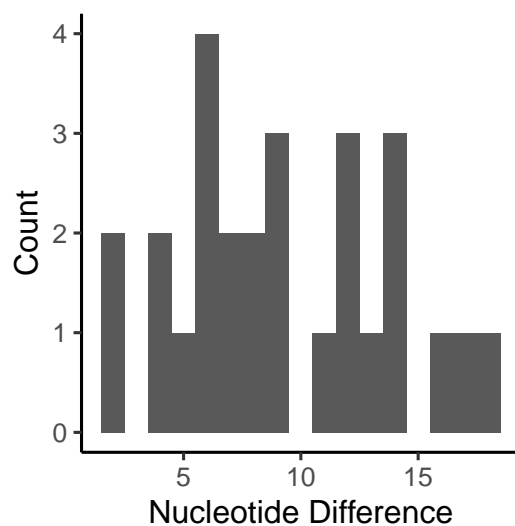
IGHV3-15*07

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



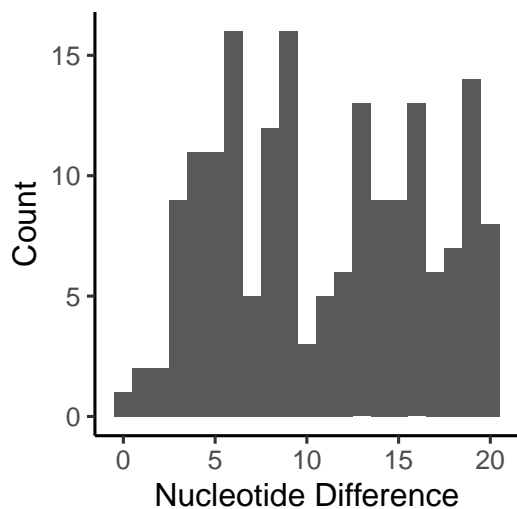
IGHV3-20*03_04

29 sequences assigned
No exact matches.



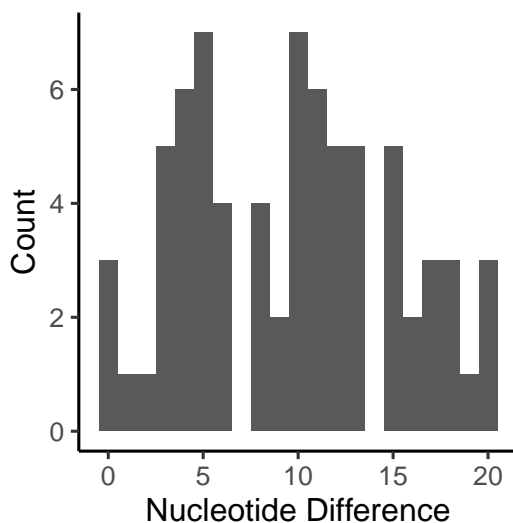
IGHV3-11*01

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



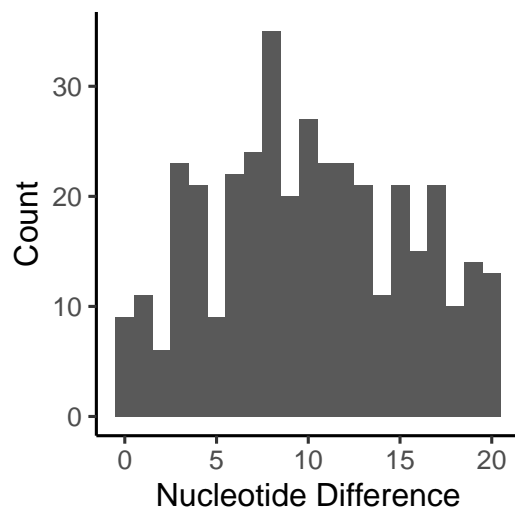
IGHV3-15*01_02

94 sequences assigned
3 (3.2%) exact matches, in which:
3 unique CDR3
2 unique J



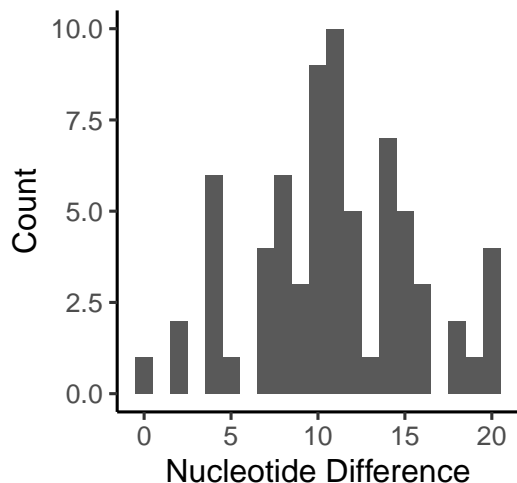
IGHV3-21*01_02

465 sequences assigned
9 (1.9%) exact matches, in which:
9 unique CDR3
4 unique J



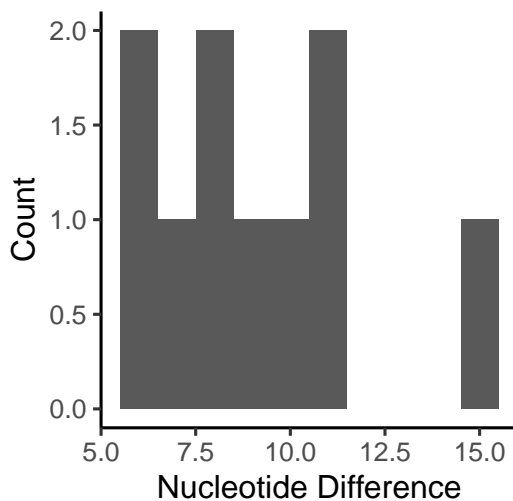
IGHV3-13*01

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



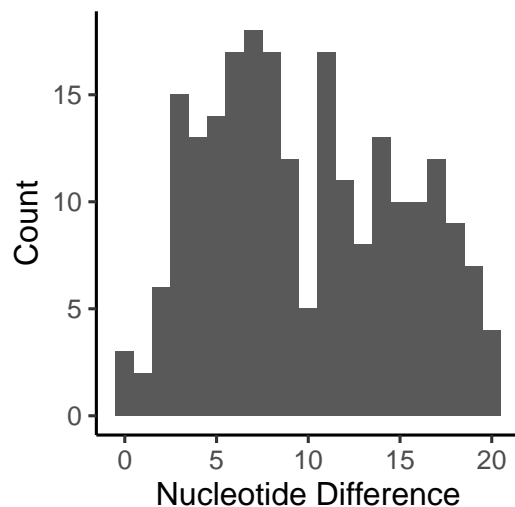
IGHV3-20*01_02

12 sequences assigned
No exact matches.



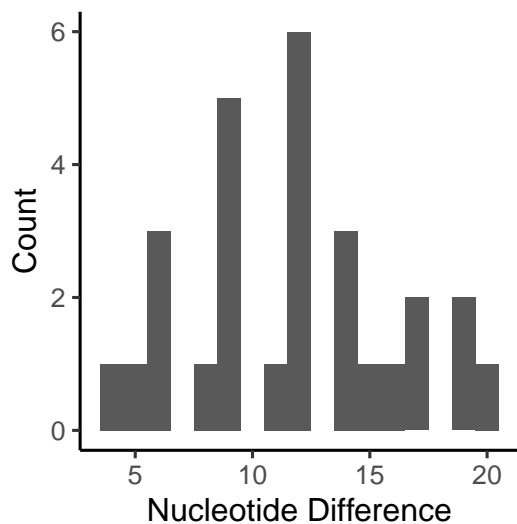
IGHV3-30-3*01

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



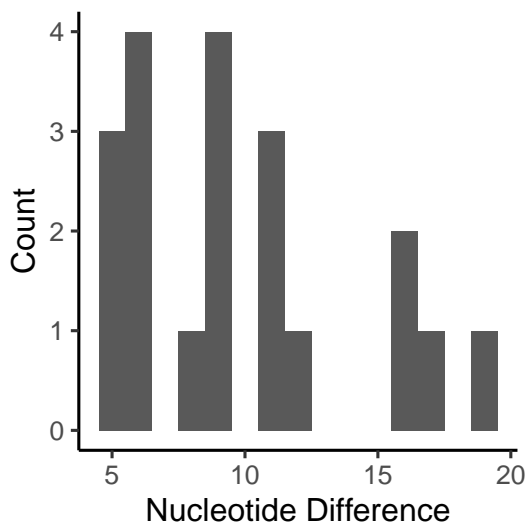
IGHV3-30*04

42 sequences assigned
No exact matches.



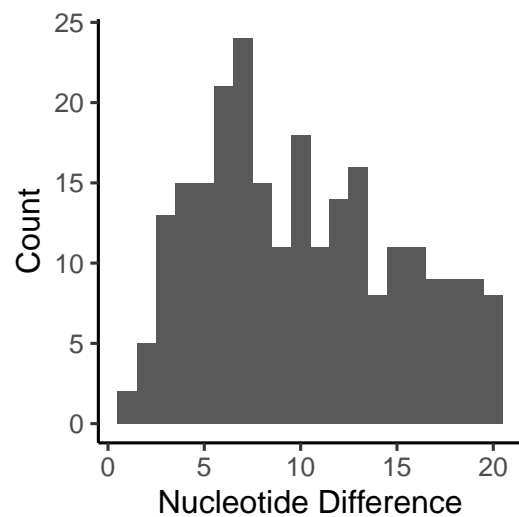
IGHV3-43*01

25 sequences assigned
No exact matches.



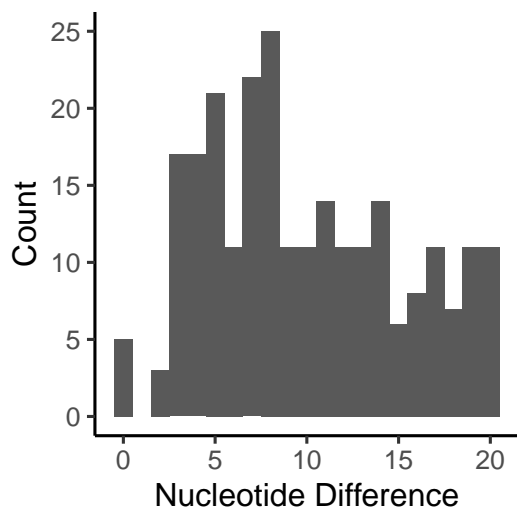
IGHV3-48*03

284 sequences assigned
No exact matches.



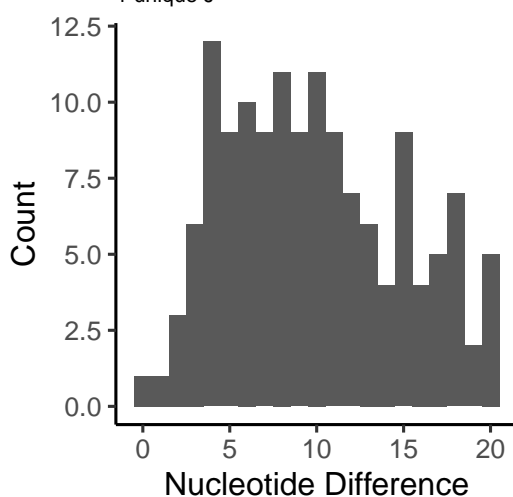
IGHV3-33*01

310 sequences assigned
5 (1.6%) exact matches, in which:
5 unique CDR3
3 unique J



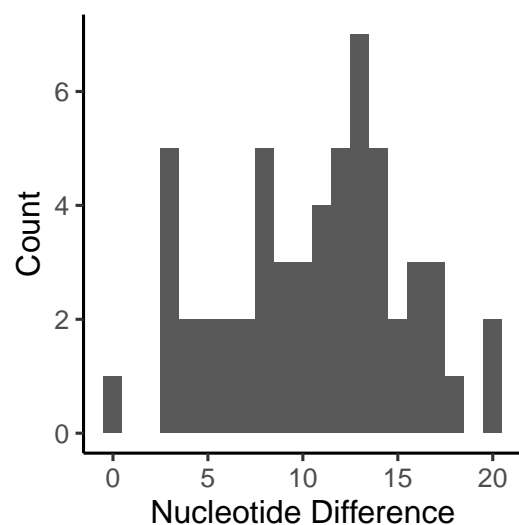
IGHV3-43*02

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



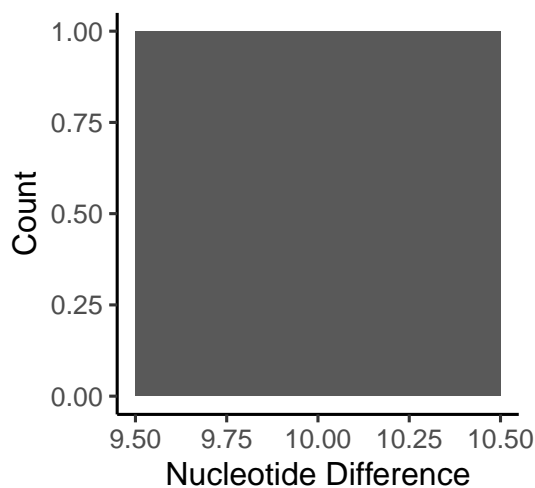
IGHV3-49*04

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



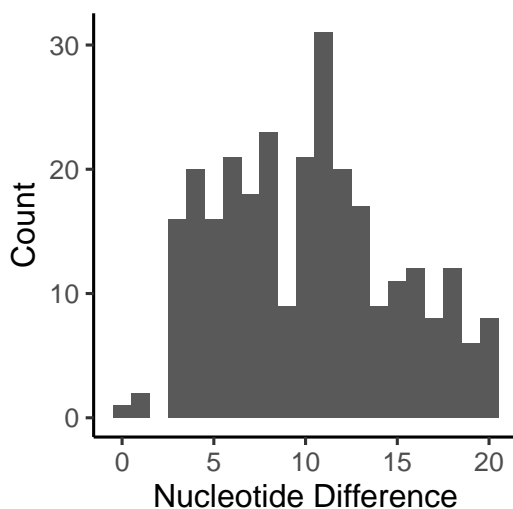
IGHV3-35*01

1 sequences assigned
No exact matches.



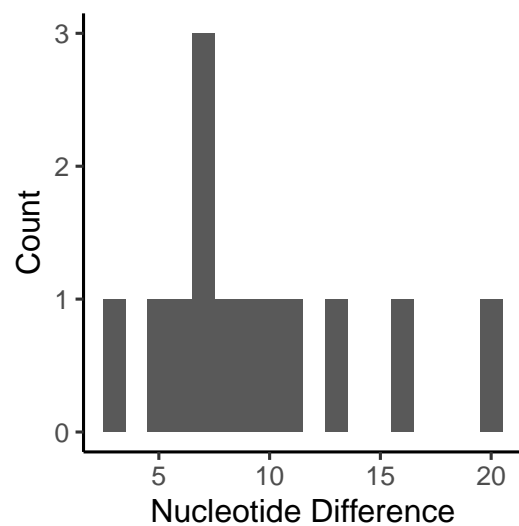
IGHV3-48*02

337 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
0 unique J



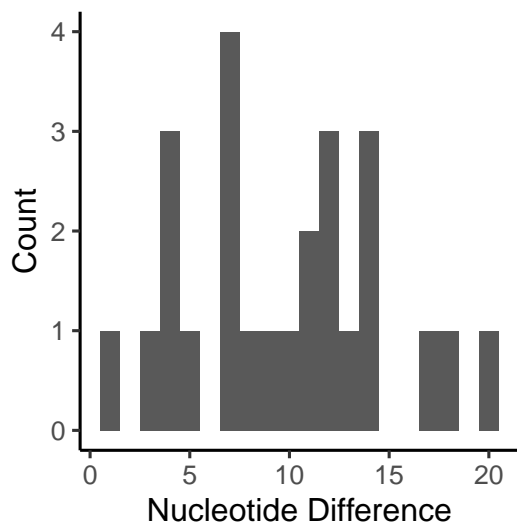
IGHV3-49*03_05

15 sequences assigned
No exact matches.



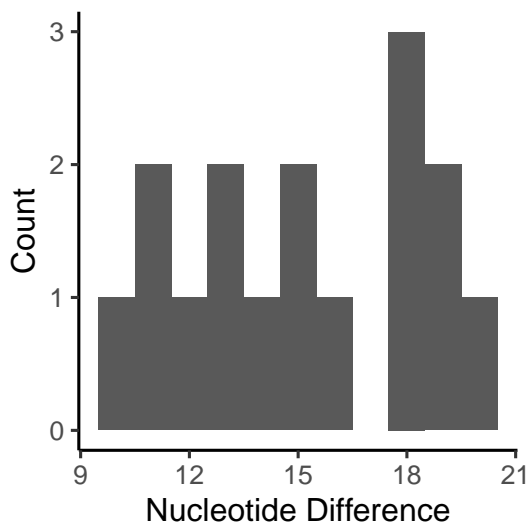
IGHV3-53*04

33 sequences assigned
No exact matches.



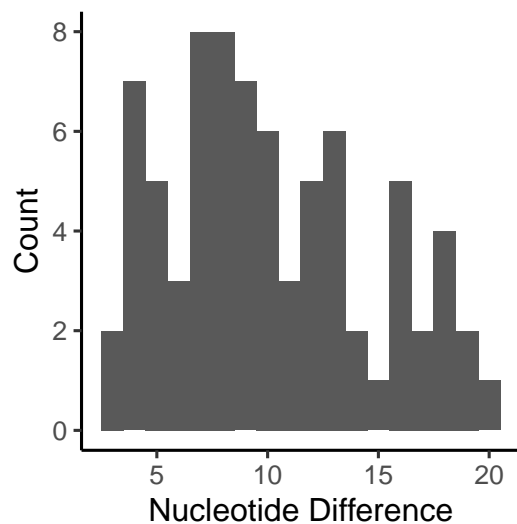
IGHV3-64*02_07

23 sequences assigned
No exact matches.



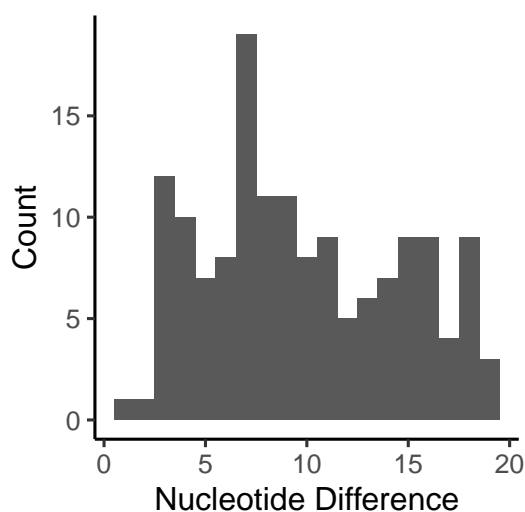
IGHV3-72*01

87 sequences assigned
No exact matches.



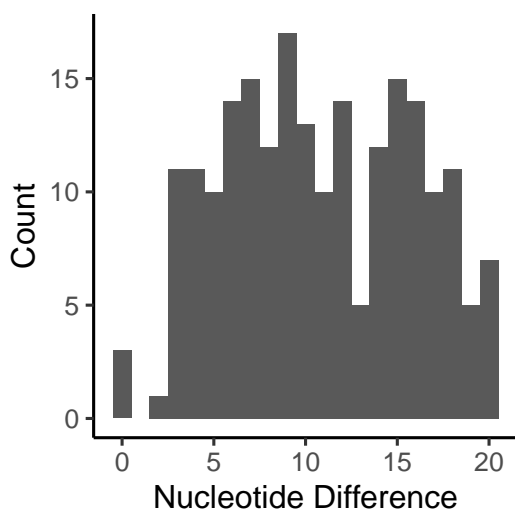
IGHV3-53*01_02

172 sequences assigned
No exact matches.



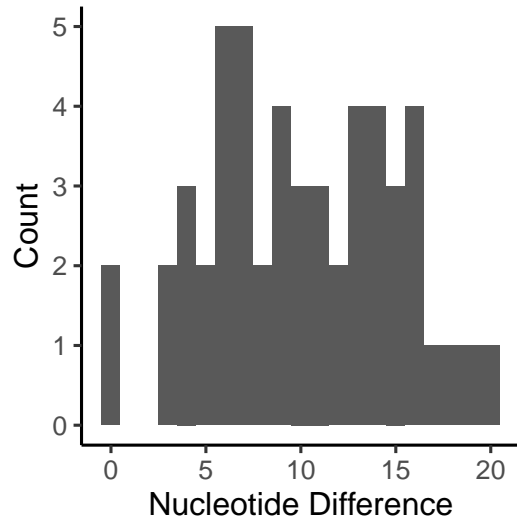
IGHV3-66*01

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



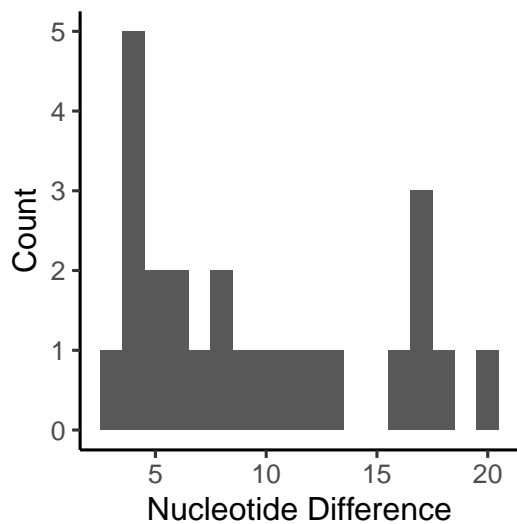
IGHV3-73*01_02

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



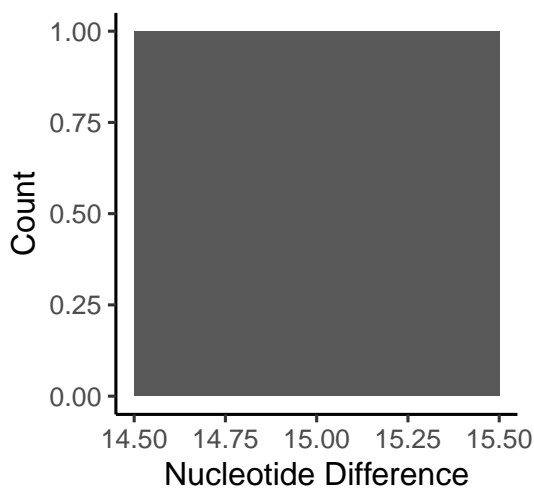
IGHV3-64*01

34 sequences assigned
No exact matches.



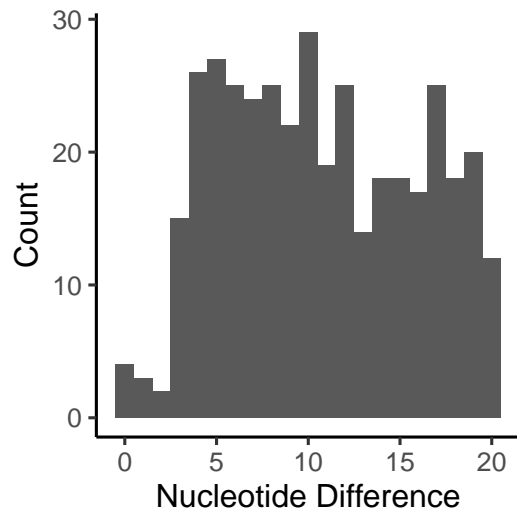
IGHV3-69-1*01

4 sequences assigned
No exact matches.



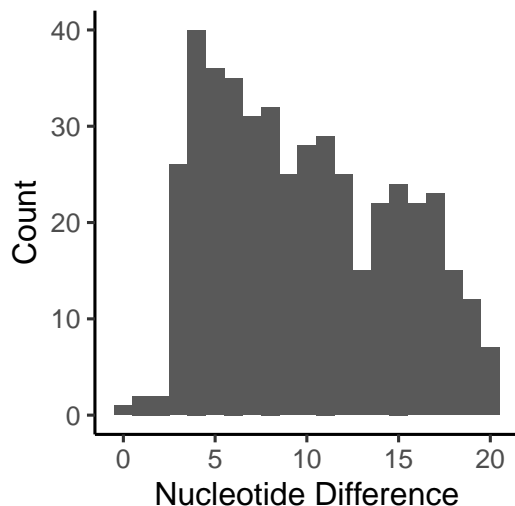
IGHV3-74*01_02

451 sequences assigned
4 (0.9%) exact matches, in which:
4 unique CDR3
2 unique J



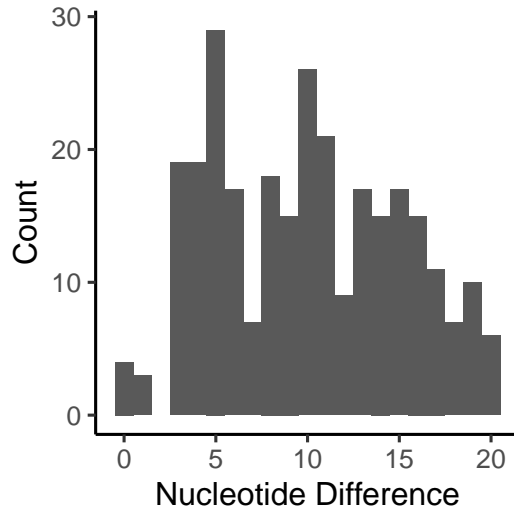
IGHV4-4*07

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



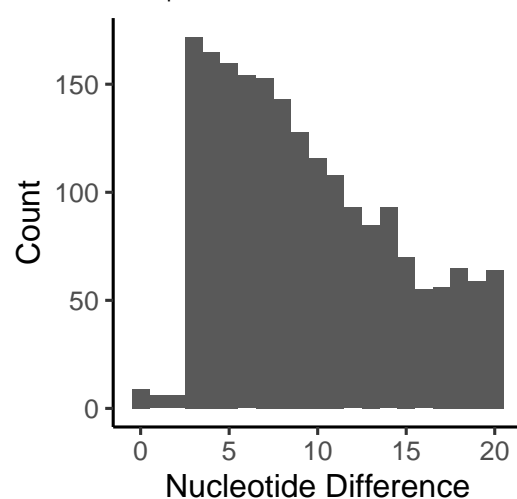
IGHV4-30-4*01

359 sequences assigned
4 (1.1%) exact matches, in which:
3 unique CDR3
3 unique J



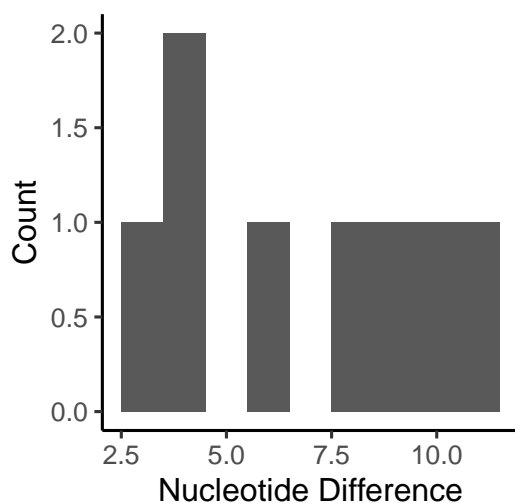
IGHV4-39*01_05

2313 sequences assigned
9 (0.4%) exact matches, in which:
7 unique CDR3
2 unique J



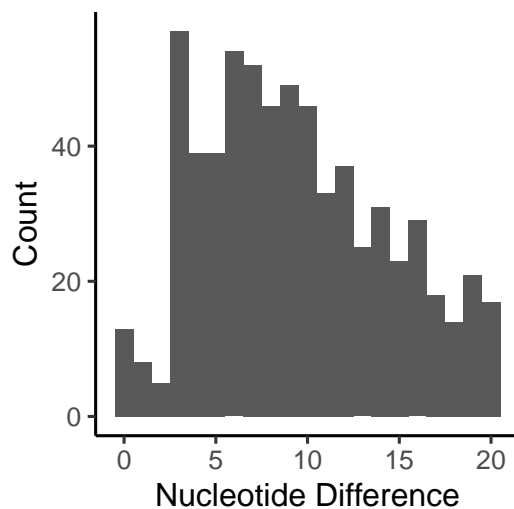
IGHV4-28*01_07

12 sequences assigned
No exact matches.



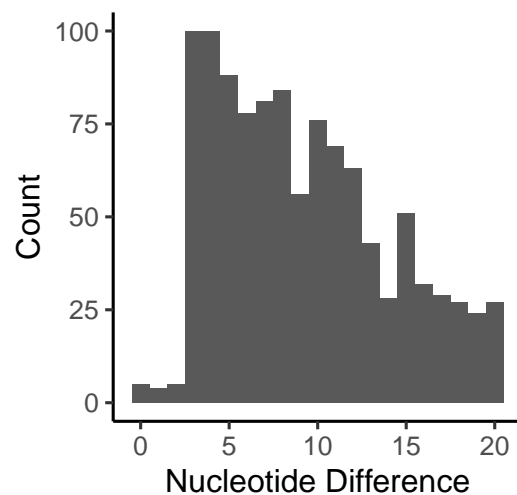
IGHV4-31*03_04

781 sequences assigned
13 (1.7%) exact matches, in which:
12 unique CDR3
4 unique J



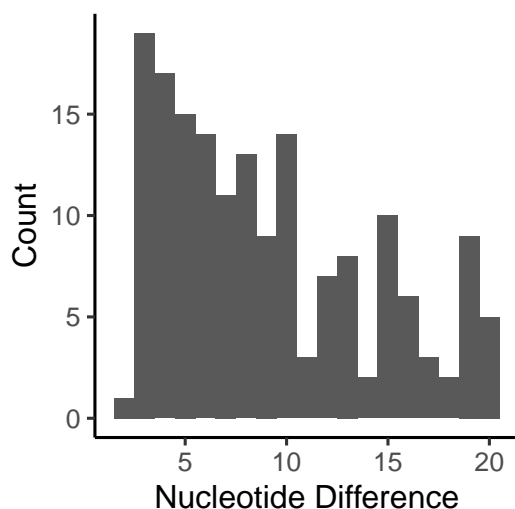
IGHV4-59*08

1225 sequences assigned
5 (0.4%) exact matches, in which:
5 unique CDR3
3 unique J



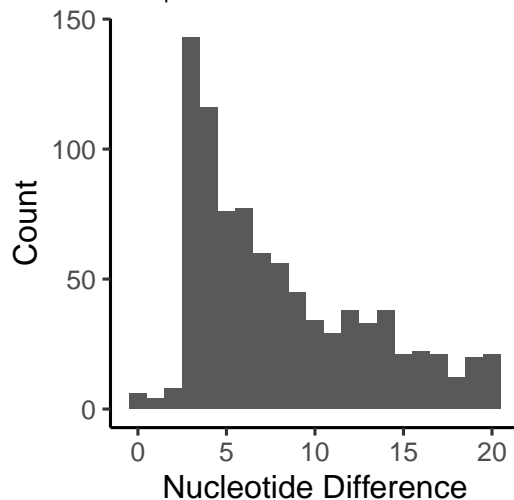
IGHV4-30-2*01

207 sequences assigned
No exact matches.



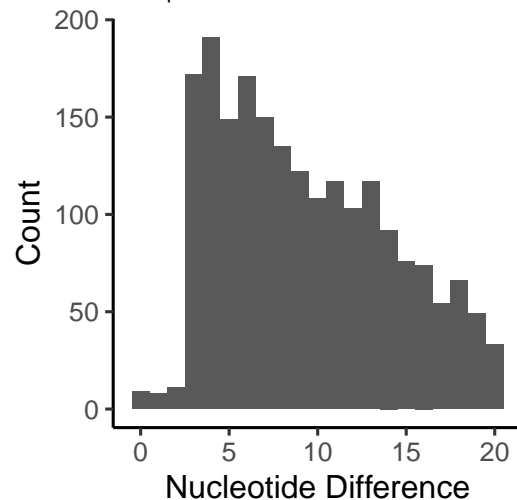
IGHV4-34*01_02

1005 sequences assigned
6 (0.6%) exact matches, in which:
6 unique CDR3
4 unique J



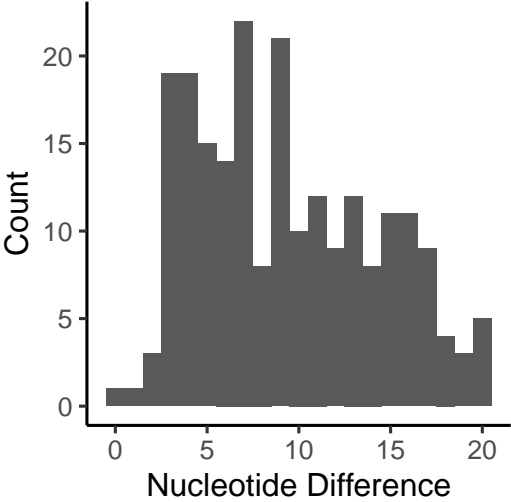
IGHV4-59*01_07

2298 sequences assigned
9 (0.4%) exact matches, in which:
8 unique CDR3
2 unique J



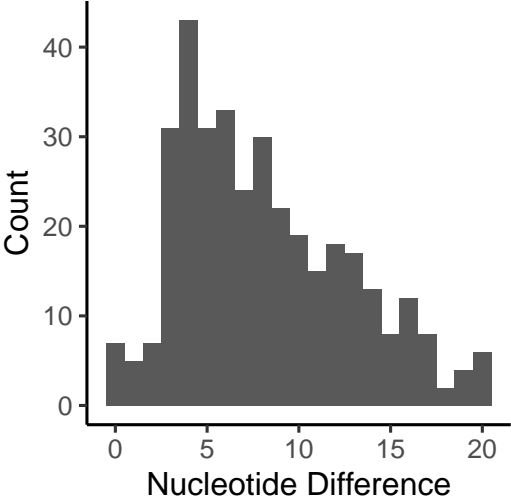
IGHV4–61*01

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



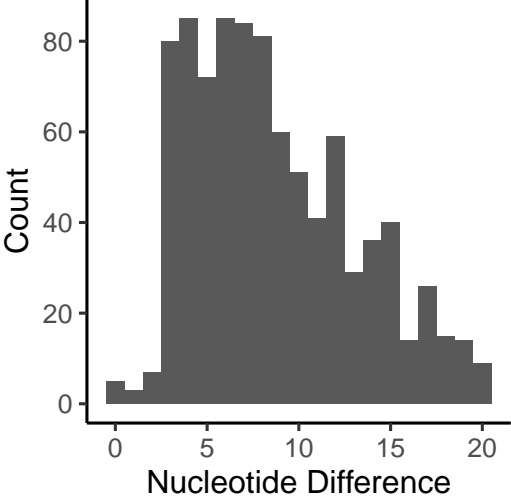
IGHV5–51*01_03

379 sequences assigned
7 (1.8%) exact matches, in which:
7 unique CDR3
2 unique J



IGHV6–1*01_02

971 sequences assigned
5 (0.5%) exact matches, in which:
5 unique CDR3
2 unique J





Warning – no inferred sequences found.