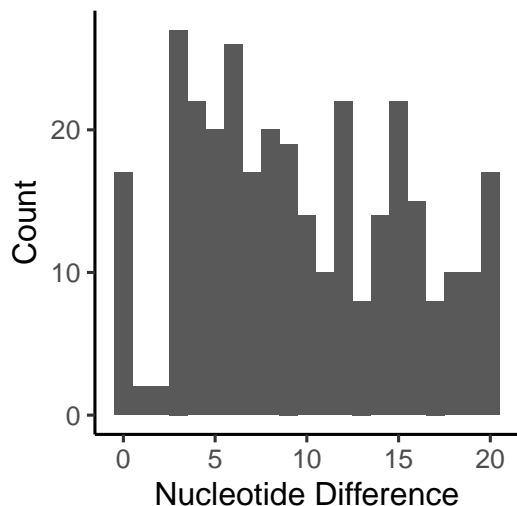


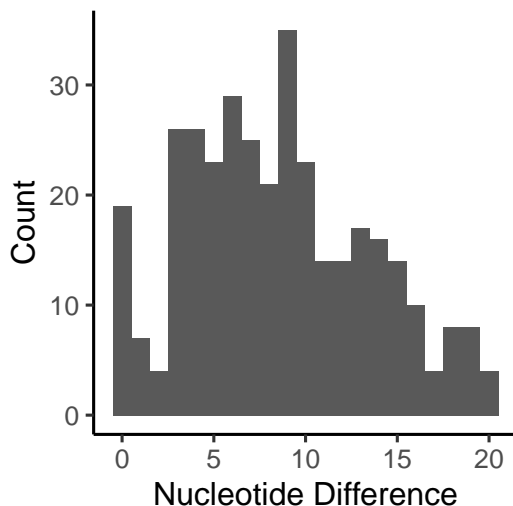
IGHV1-2*02

404 sequences assigned
17 (4.2%) exact matches, in which:
17 unique CDR3
3 unique J



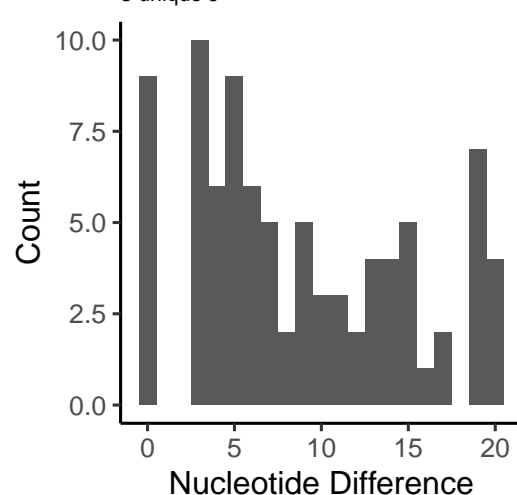
IGHV1-18*01

392 sequences assigned
19 (4.8%) exact matches, in which:
19 unique CDR3
4 unique J



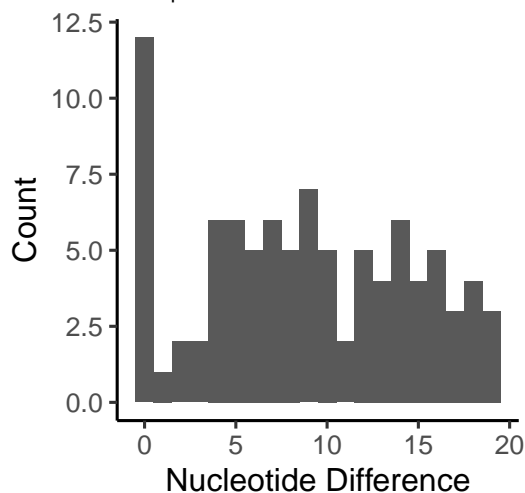
IGHV1-46*03

115 sequences assigned
9 (7.8%) exact matches, in which:
9 unique CDR3
3 unique J



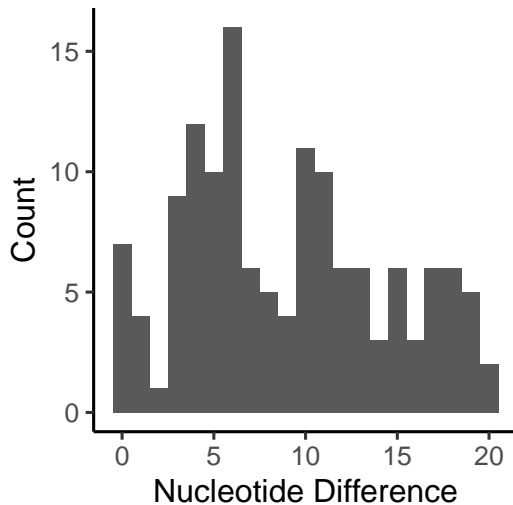
IGHV1-3*01_05

106 sequences assigned
12 (11.3%) exact matches, in which:
10 unique CDR3
3 unique J



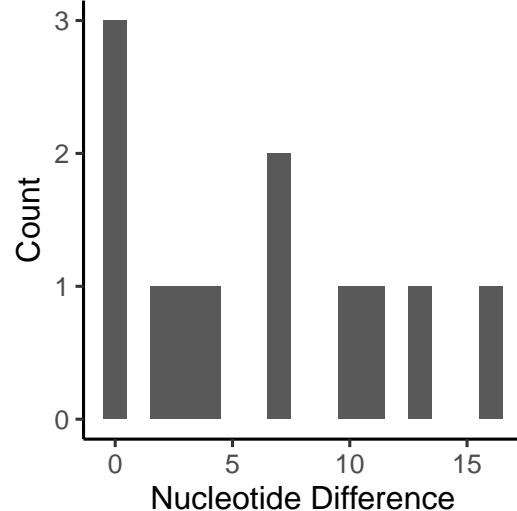
IGHV1-18*04

164 sequences assigned
7 (4.3%) exact matches, in which:
7 unique CDR3
2 unique J



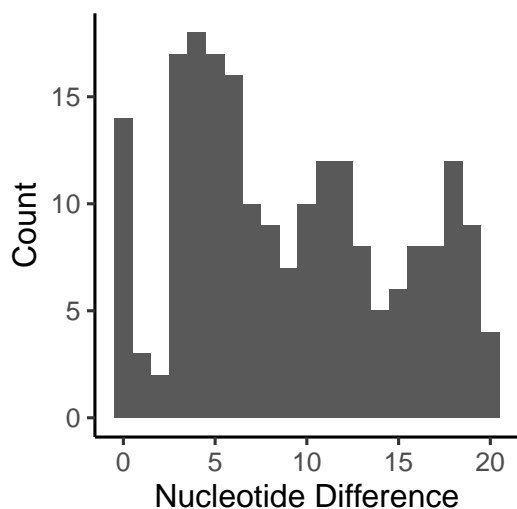
IGHV1-58*02

14 sequences assigned
3 (21.4%) exact matches, in which:
3 unique CDR3
2 unique J



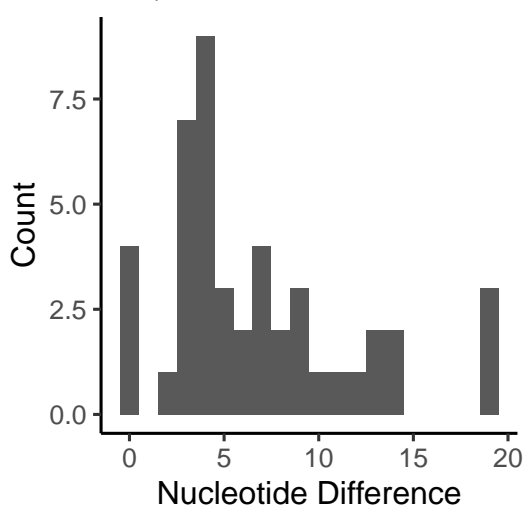
IGHV1-8*01

234 sequences assigned
14 (6%) exact matches, in which:
14 unique CDR3
4 unique J



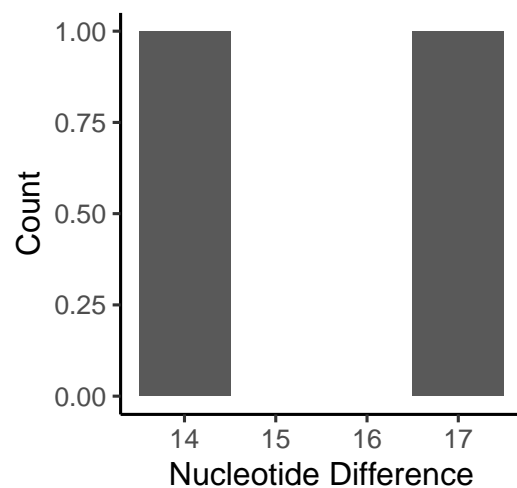
IGHV1-24*01

60 sequences assigned
4 (6.7%) exact matches, in which:
4 unique CDR3
3 unique J



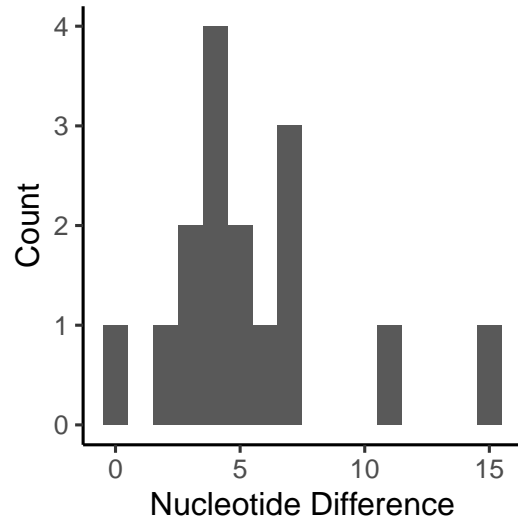
IGHV1-58*01_03

4 sequences assigned
No exact matches.



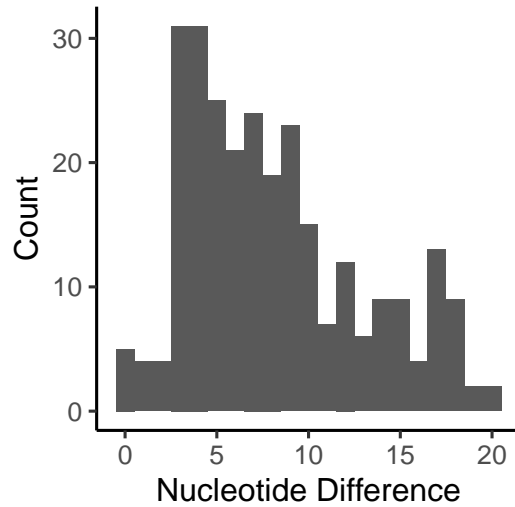
IGHV1-69*02

17 sequences assigned
1 (5.9%) exact matches, in which:
1 unique CDR3
1 unique J



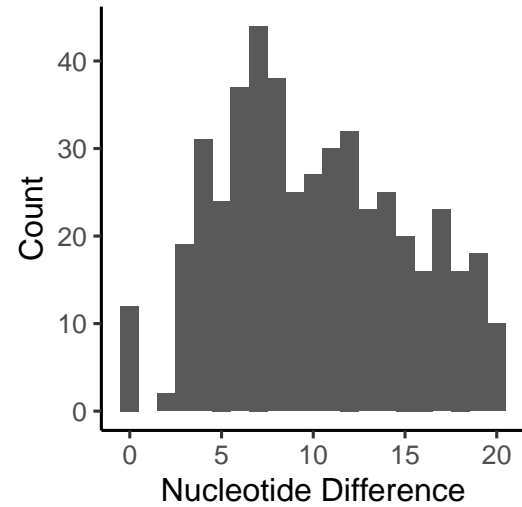
IGHV2-5*01

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



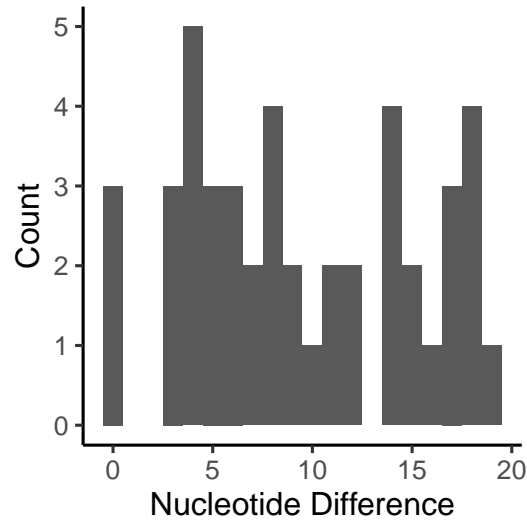
IGHV3-7*01

546 sequences assigned
12 (2.2%) exact matches, in which:
10 unique CDR3
5 unique J



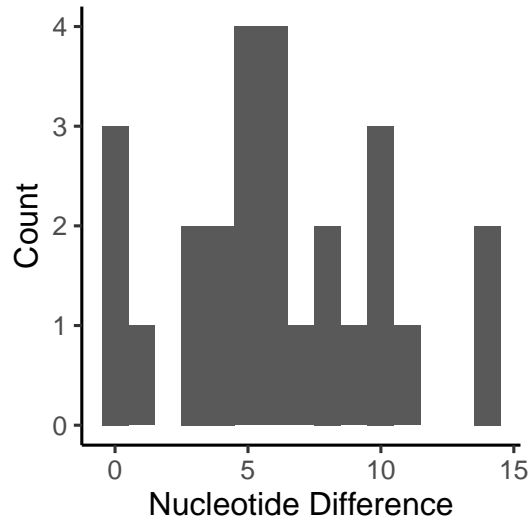
IGHV1-69*05

63 sequences assigned
3 (4.8%) exact matches, in which:
3 unique CDR3
2 unique J



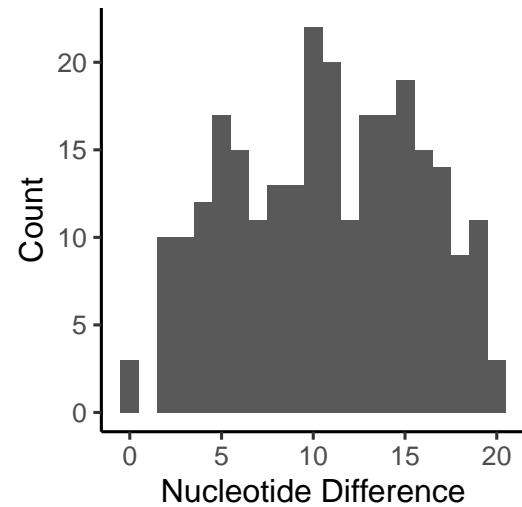
IGHV2-26*01

26 sequences assigned
3 (11.5%) exact matches, in which:
3 unique CDR3
2 unique J



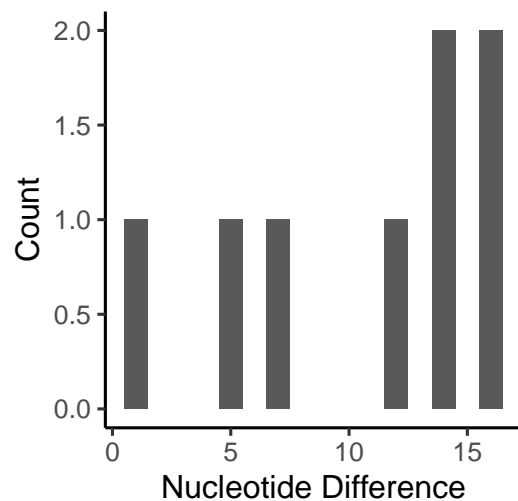
IGHV3-7*05

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



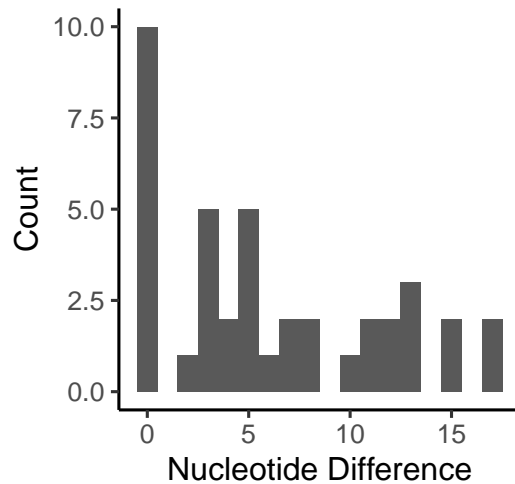
IGHV1-69*08

12 sequences assigned
No exact matches.



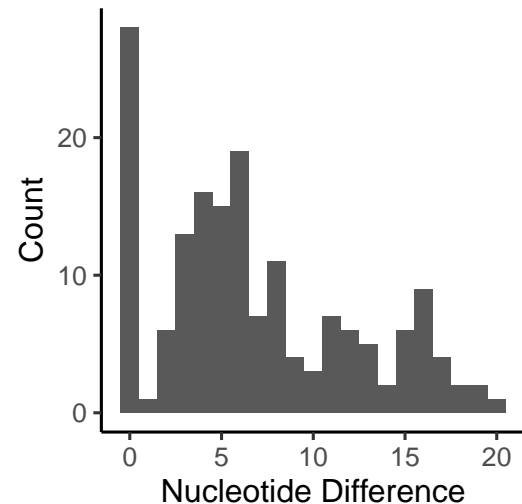
IGHV2-70*11_15

41 sequences assigned
10 (24.4%) exact matches, in which:
10 unique CDR3
3 unique J



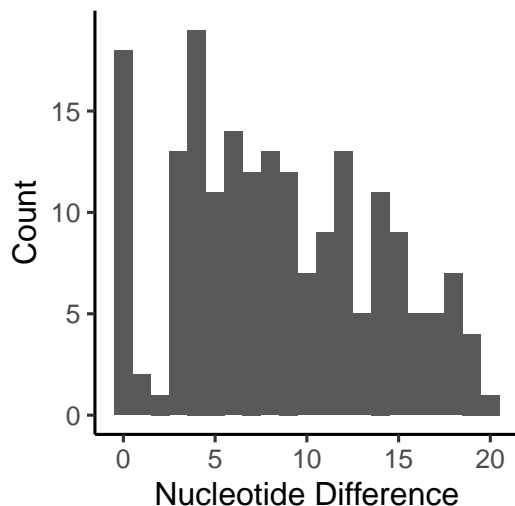
IGHV3-9*01

179 sequences assigned
28 (15.6%) exact matches, in which:
24 unique CDR3
4 unique J



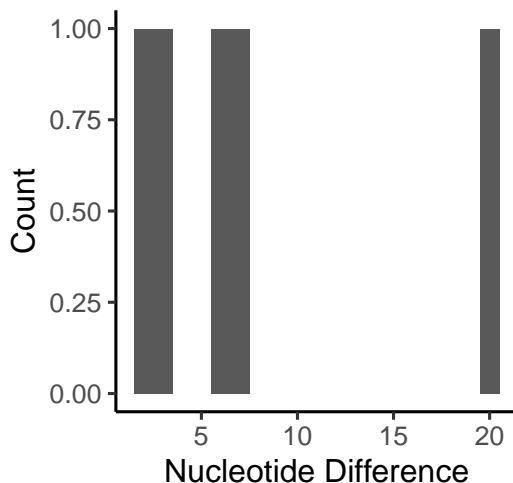
IGHV3-11*01

224 sequences assigned
18 (8%) exact matches, in which:
16 unique CDR3
5 unique J



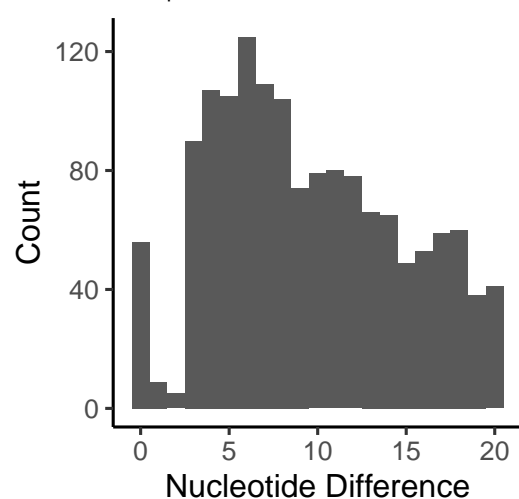
IGHV3-20*01_02

5 sequences assigned
No exact matches.



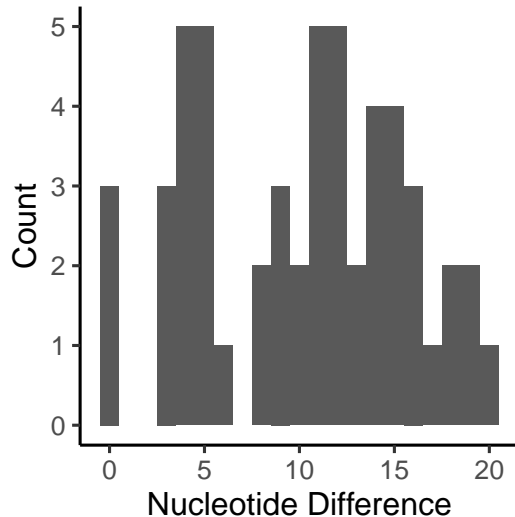
IGHV3-23*01_04

1734 sequences assigned
56 (3.2%) exact matches, in which:
43 unique CDR3
5 unique J



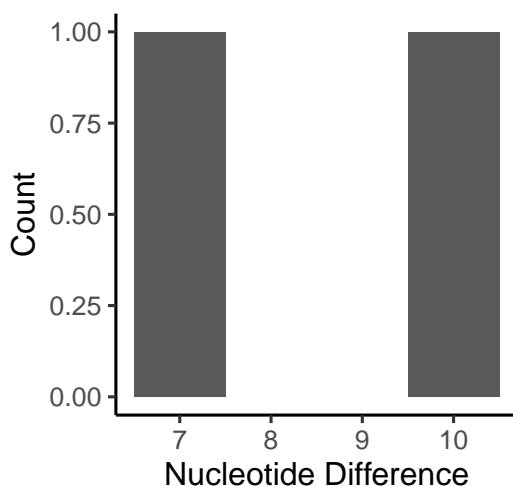
IGHV3-13*01

64 sequences assigned
3 (4.7%) exact matches, in which:
3 unique CDR3
3 unique J



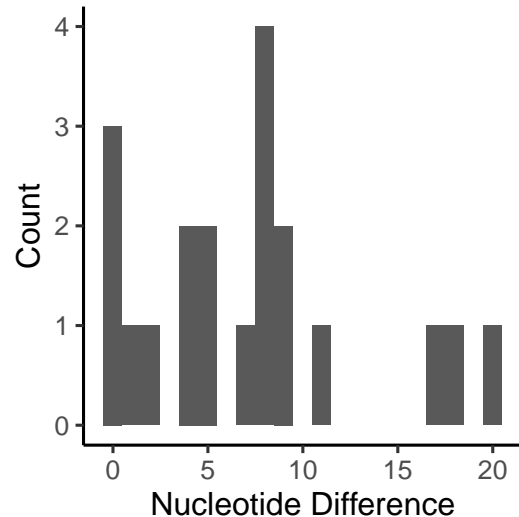
IGHV3-20*03_04

2 sequences assigned
No exact matches.



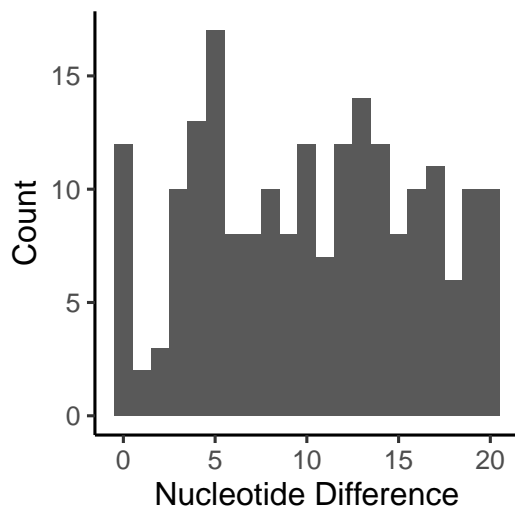
IGHV3-43*01

25 sequences assigned
3 (12%) exact matches, in which:
2 unique CDR3
2 unique J



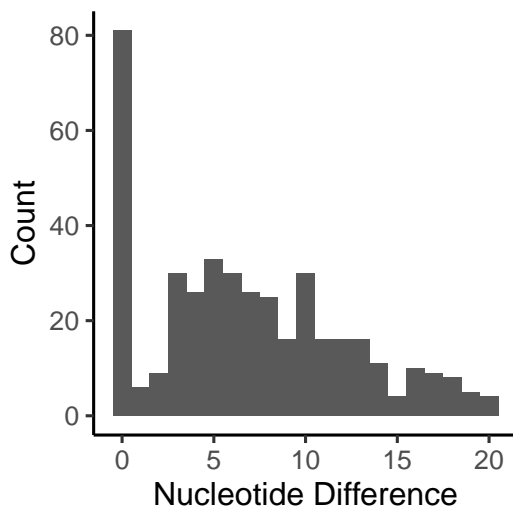
IGHV3-15*01_02

272 sequences assigned
12 (4.4%) exact matches, in which:
12 unique CDR3
4 unique J



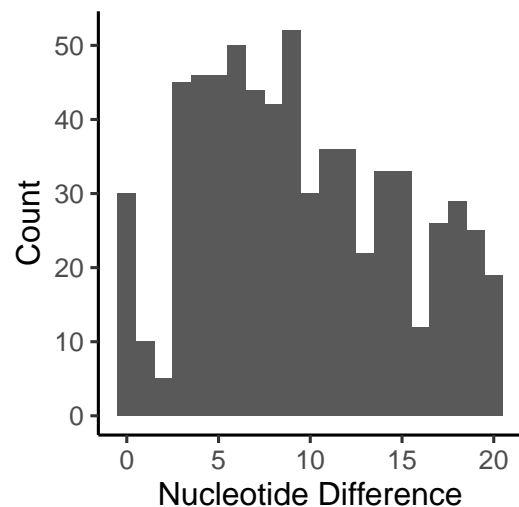
IGHV3-21*01_02

474 sequences assigned
81 (17.1%) exact matches, in which:
63 unique CDR3
5 unique J



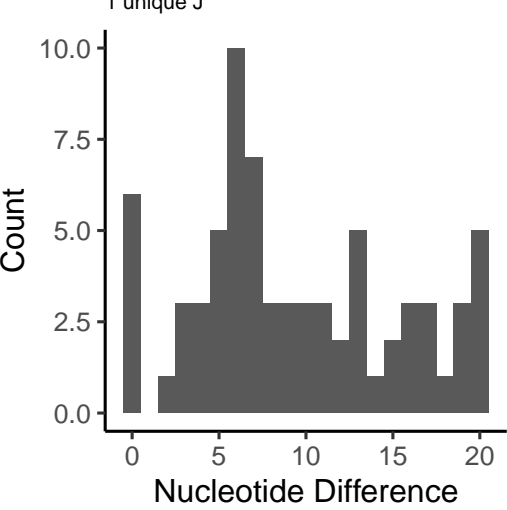
IGHV3-48*01

806 sequences assigned
30 (3.7%) exact matches, in which:
24 unique CDR3
4 unique J



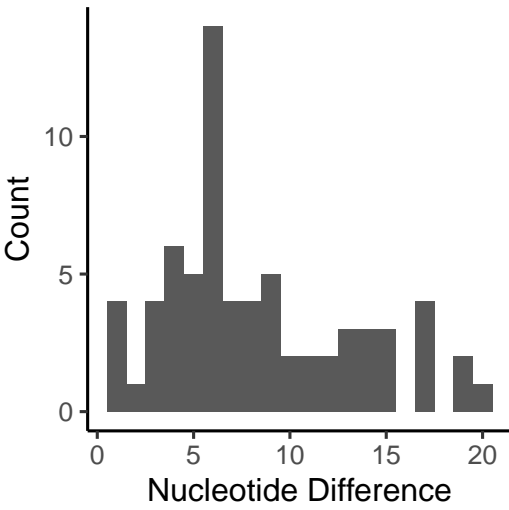
IGHV3-49*03_05

81 sequences assigned
6 (7.4%) exact matches, in which:
6 unique CDR3
1 unique J



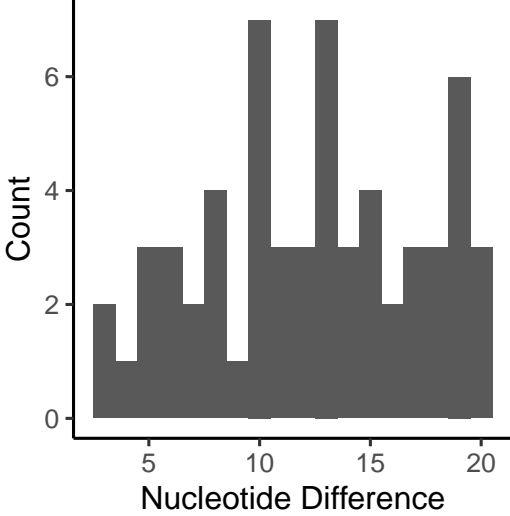
IGHV3-66*01

93 sequences assigned
No exact matches.



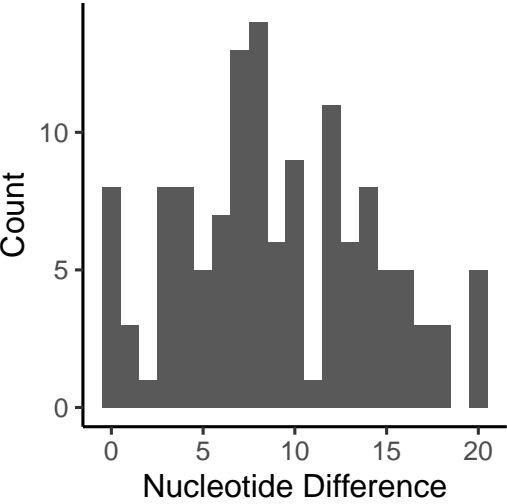
IGHV3-72*01

64 sequences assigned
No exact matches.



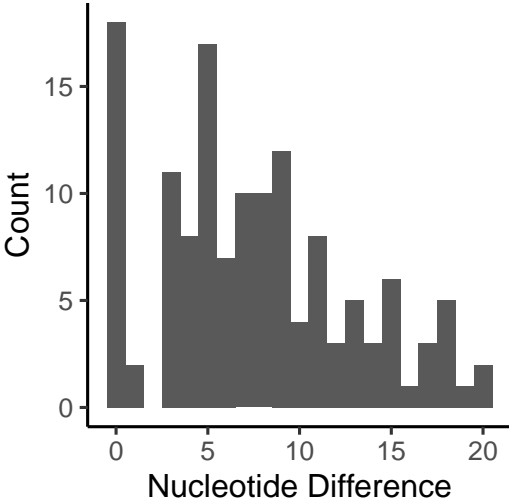
IGHV3-53*01_02

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



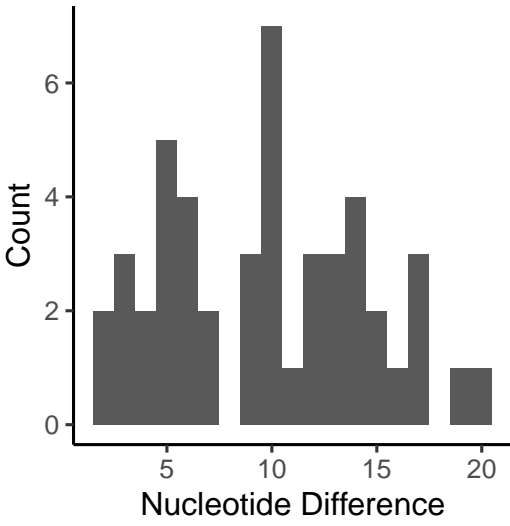
IGHV3-66*02

154 sequences assigned
18 (11.7%) exact matches, in which:
14 unique CDR3
5 unique J



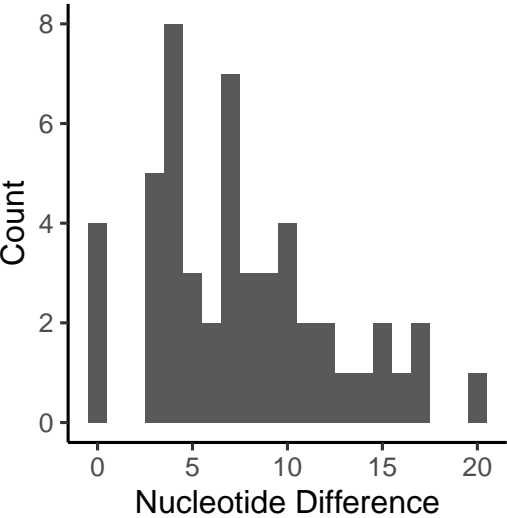
IGHV3-73*01_02

50 sequences assigned
No exact matches.



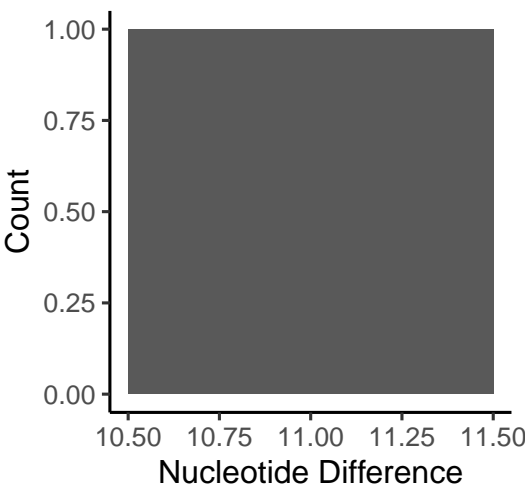
IGHV3-64*01

52 sequences assigned
4 (7.7%) exact matches, in which:
3 unique CDR3
2 unique J



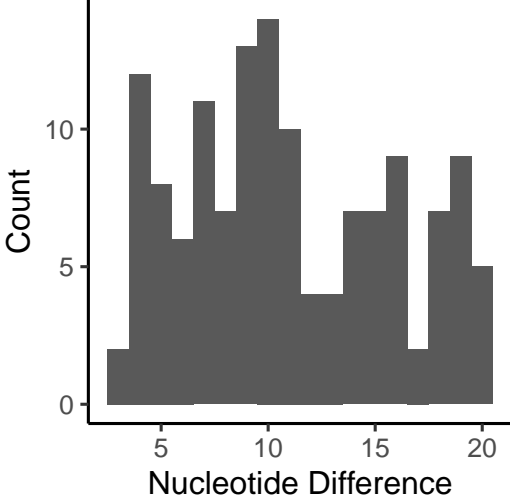
IGHV3-69-1*02

1 sequences assigned
No exact matches.



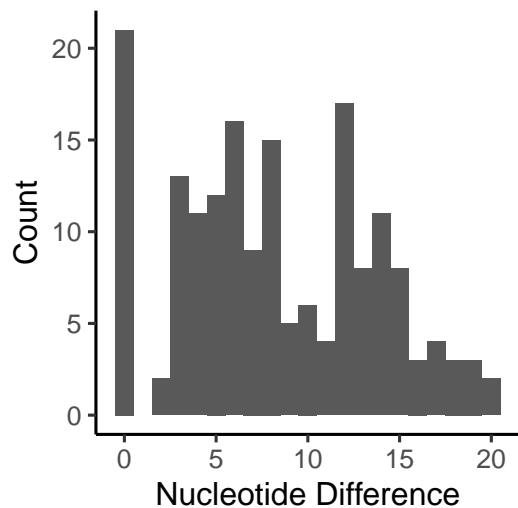
IGHV3-74*03

161 sequences assigned
No exact matches.



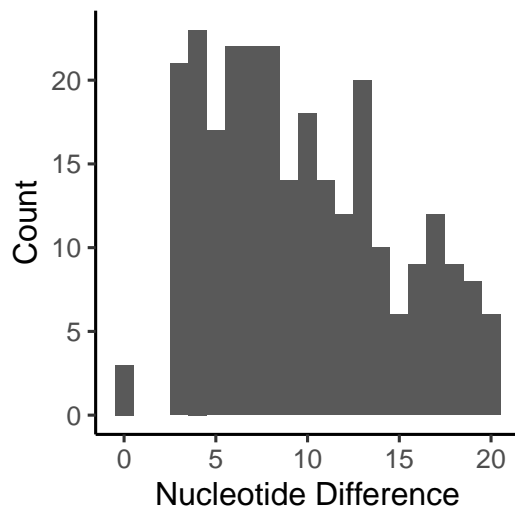
IGHV3-74*01_02

193 sequences assigned
21 (10.9%) exact matches, in which:
17 unique CDR3
5 unique J



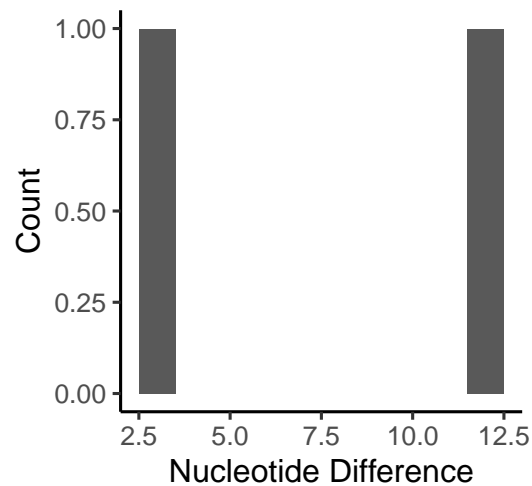
IGHV4-4*07

325 sequences assigned
3 (0.9%) exact matches, in which:
2 unique CDR3
2 unique J



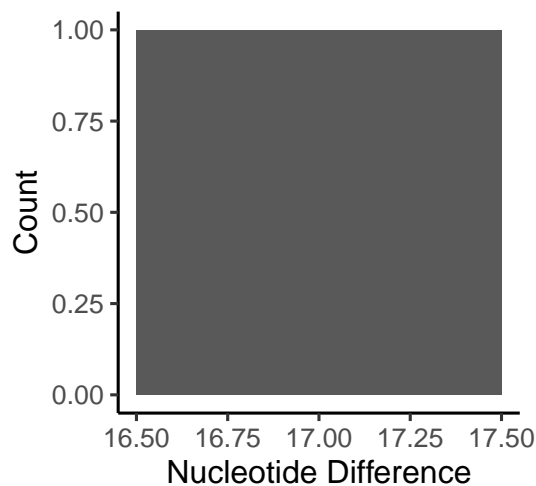
IGHV4-28*01_07

3 sequences assigned
No exact matches.



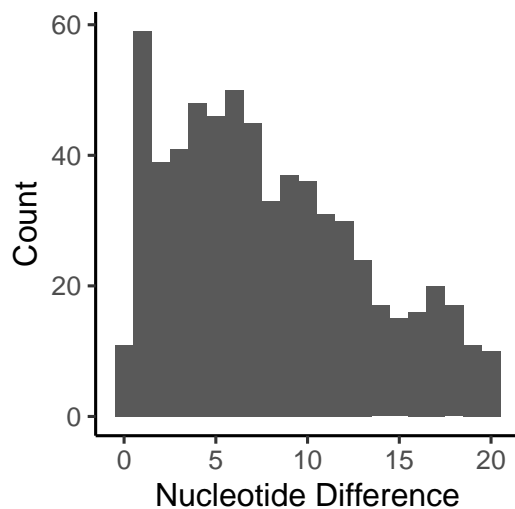
IGHV3-43D*03

4 sequences assigned
No exact matches.



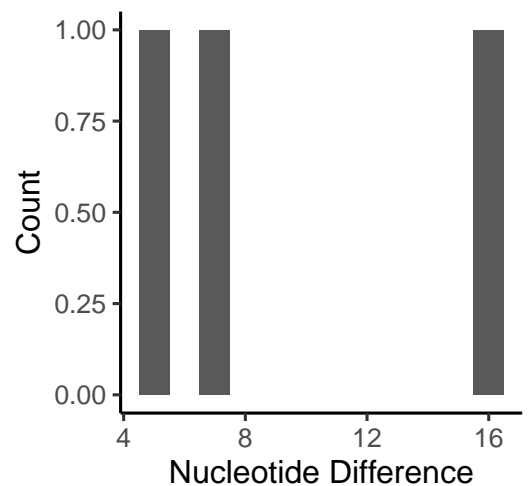
IGHV4-4*09

748 sequences assigned
11 (1.5%) exact matches, in which:
10 unique CDR3
3 unique J



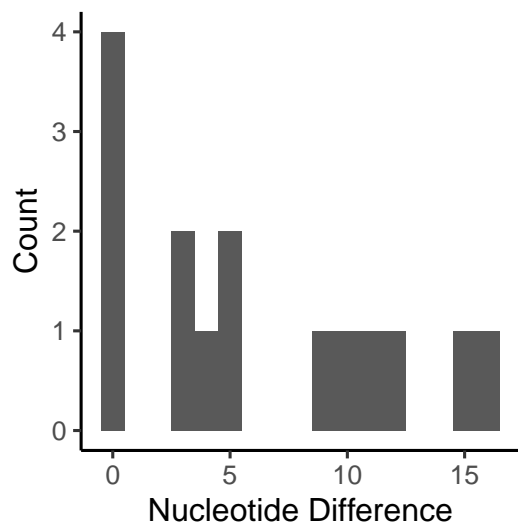
IGHV4-28*02_05

3 sequences assigned
No exact matches.



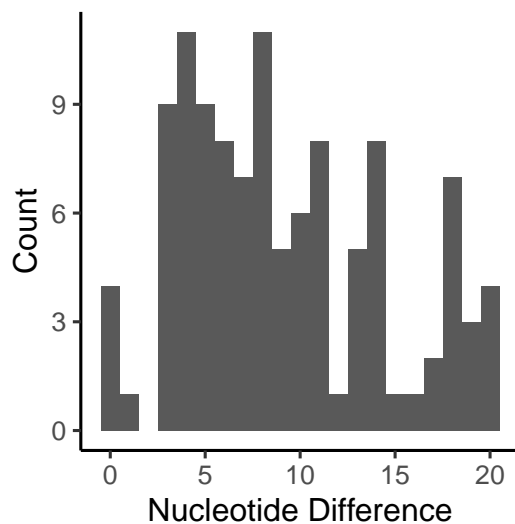
IGHV3-43D*04

18 sequences assigned
4 (22.2%) exact matches, in which:
3 unique CDR3
2 unique J



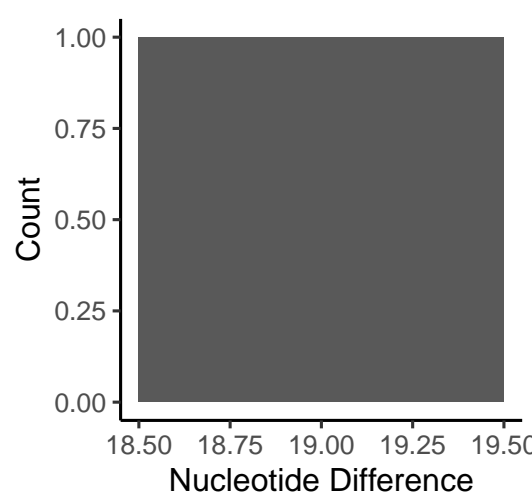
IGHV4-4*02_03

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



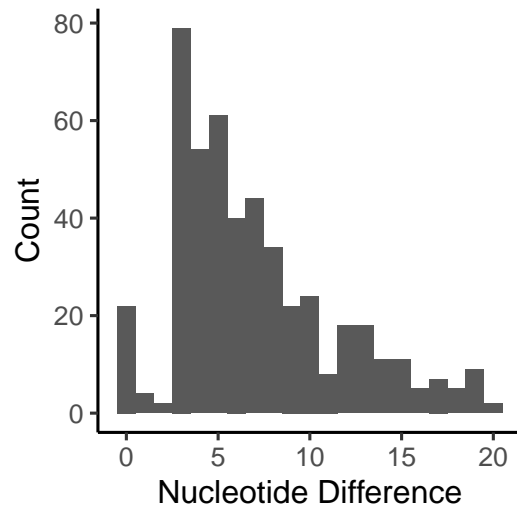
IGHV4-31*02

1 sequences assigned
No exact matches.



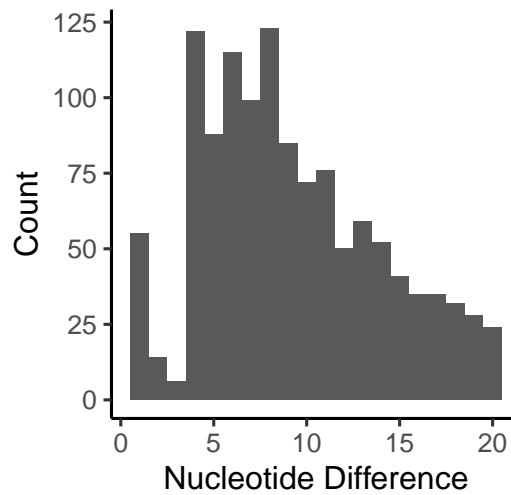
IGHV4-34*01_02

520 sequences assigned
22 (4.2%) exact matches, in which:
15 unique CDR3
5 unique J



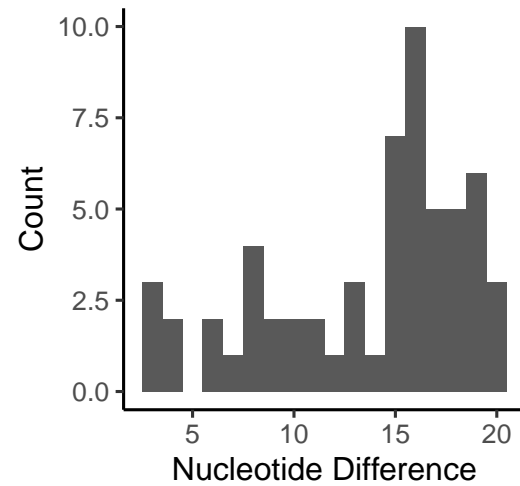
IGHV4-39*02

1423 sequences assigned
No exact matches.



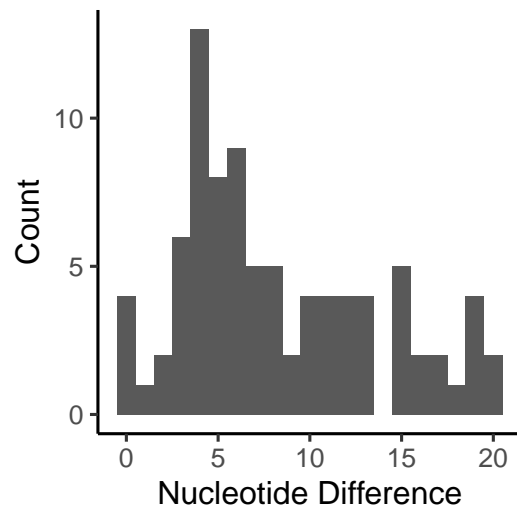
IGHV4-59*08

102 sequences assigned
No exact matches.



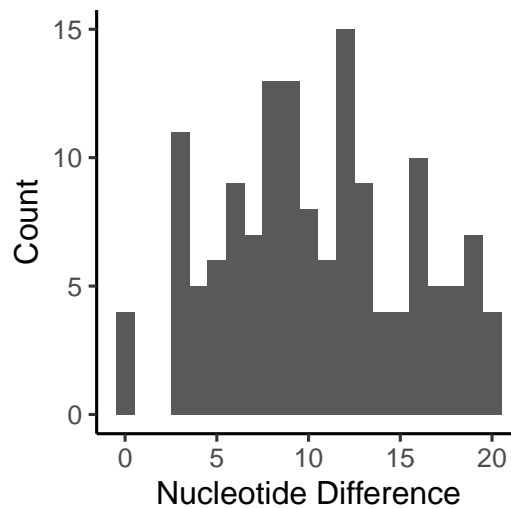
IGHV4-38-2*01

93 sequences assigned
4 (4.3%) exact matches, in which:
4 unique CDR3
3 unique J



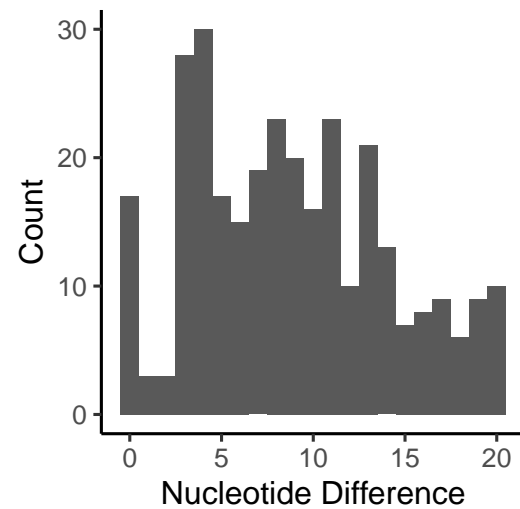
IGHV4-39*01_05

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



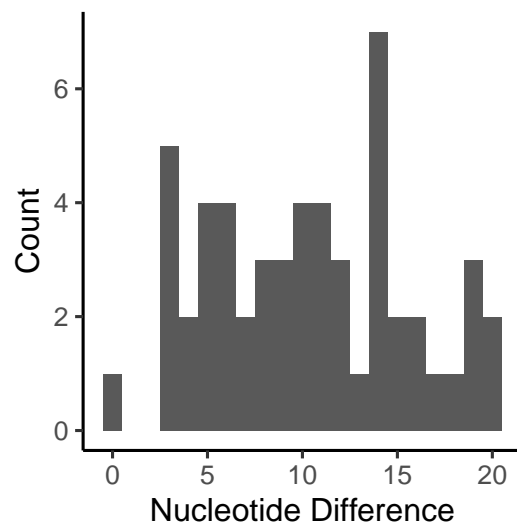
IGHV4-59*01_07

364 sequences assigned
17 (4.7%) exact matches, in which:
10 unique CDR3
3 unique J



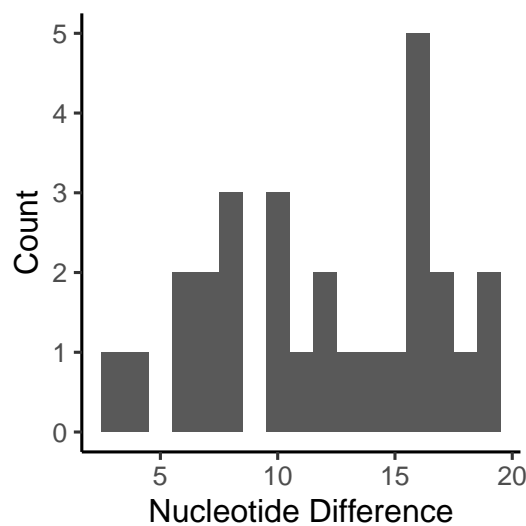
IGHV4-38-2*02

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



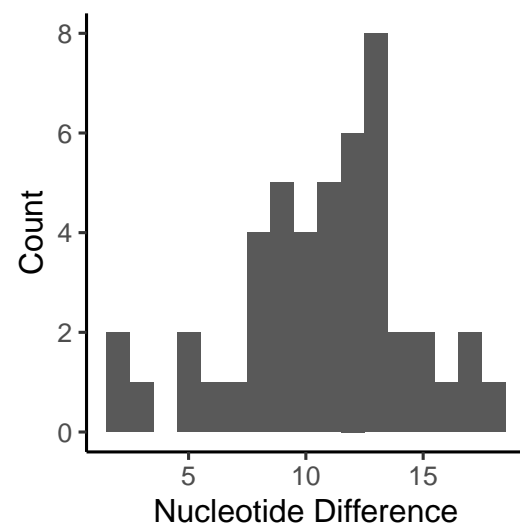
IGHV4-59*02

50 sequences assigned
No exact matches.



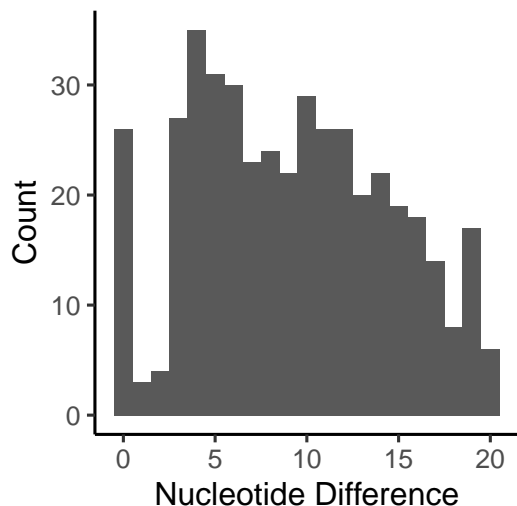
IGHV4-59*11

65 sequences assigned
No exact matches.



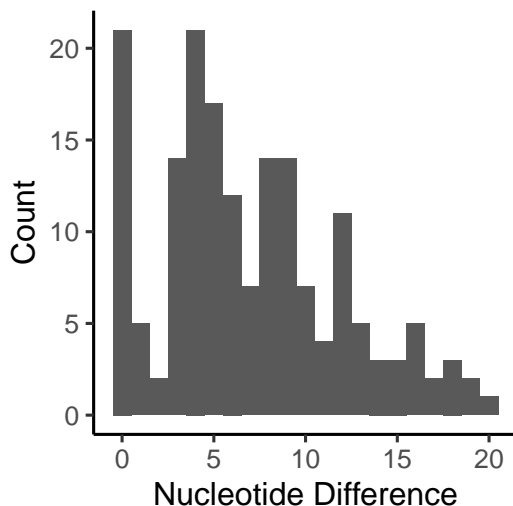
IGHV4-61*02

514 sequences assigned
26 (5.1%) exact matches, in which:
19 unique CDR3
3 unique J



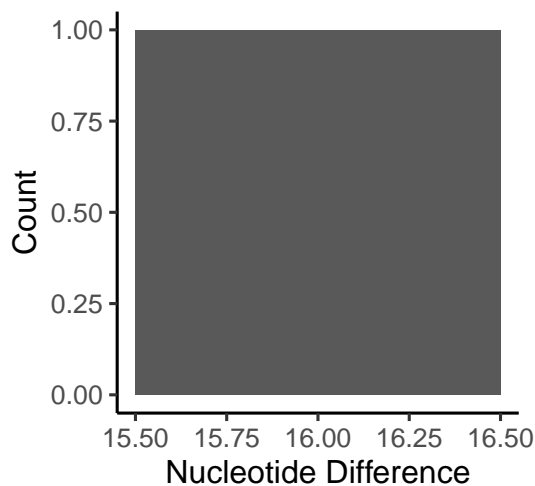
IGHV5-51*01_03

193 sequences assigned
21 (10.9%) exact matches, in which:
21 unique CDR3
5 unique J



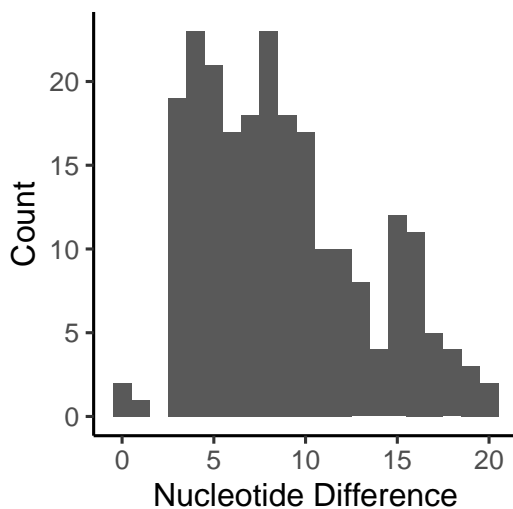
IGHV4/OR15-8*02

1 sequences assigned
No exact matches.



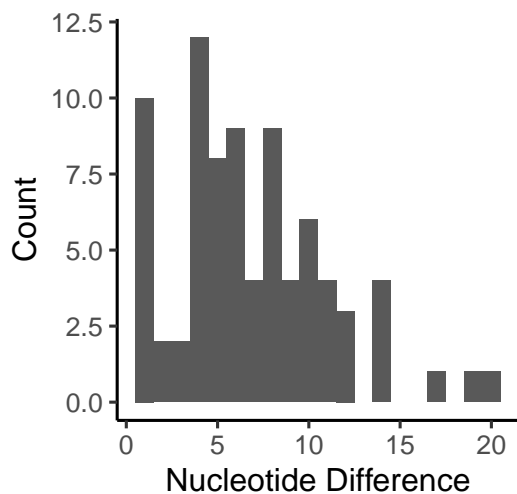
IGHV6-1*01_02

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



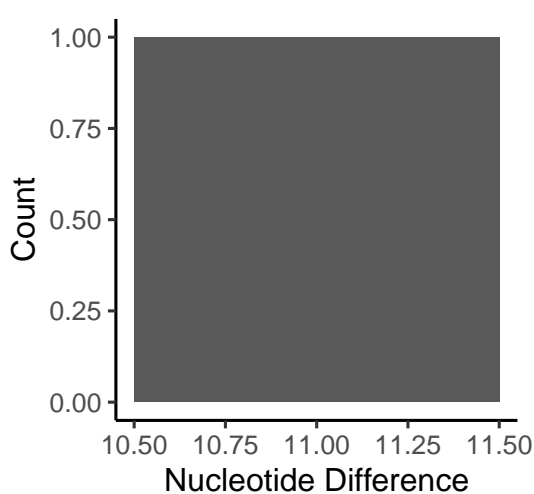
IGHV5-51*07

89 sequences assigned
No exact matches.



IGHV7-4-1*01

1 sequences assigned
No exact matches.





[illegible]