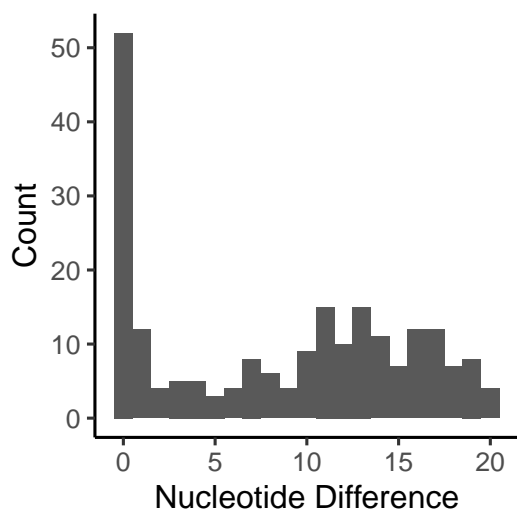


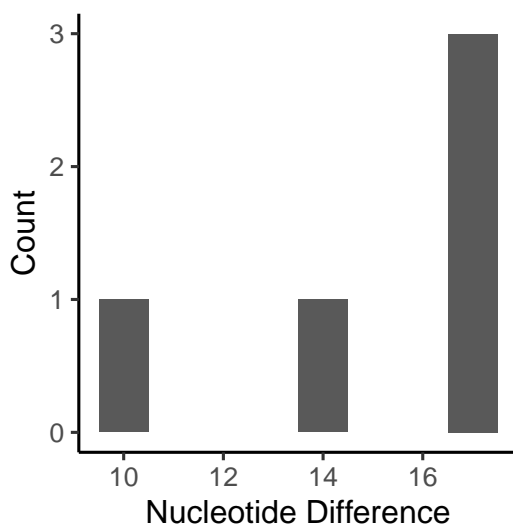
IGHV1-2*02

272 sequences assigned
52 (19.1%) exact matches, in which:
52 unique CDR3
5 unique J



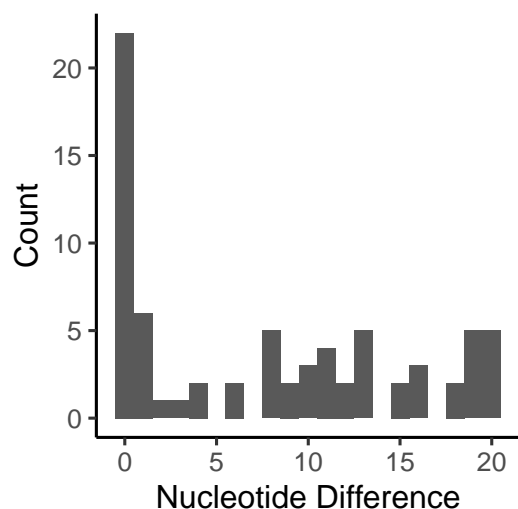
IGHV1-3*04

14 sequences assigned
No exact matches.



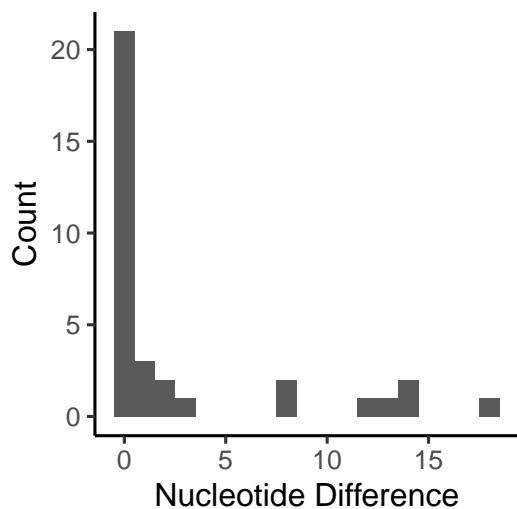
IGHV1-18*04

106 sequences assigned
22 (20.8%) exact matches, in which:
22 unique CDR3
4 unique J



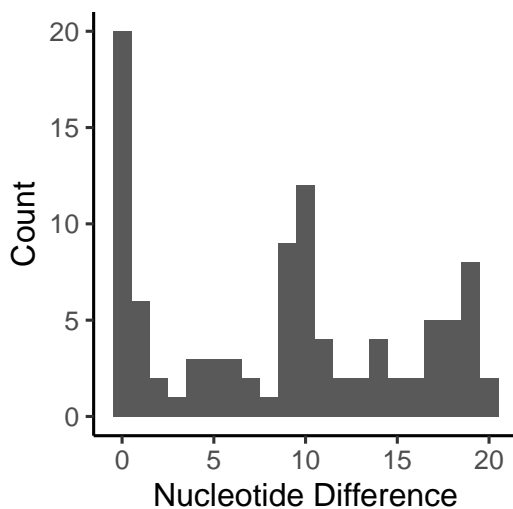
IGHV1-2*04

35 sequences assigned
21 (60%) exact matches, in which:
21 unique CDR3
4 unique J



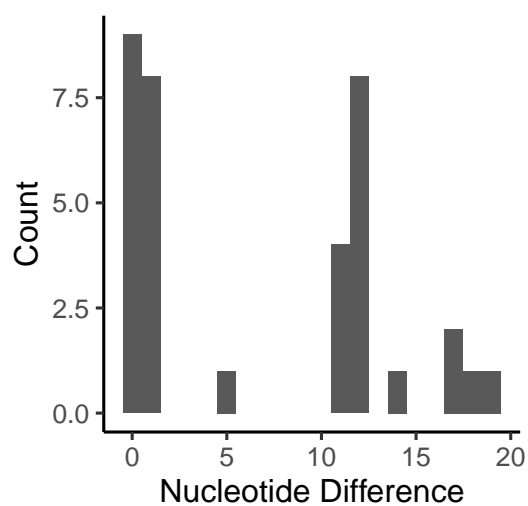
IGHV1-8*01

117 sequences assigned
20 (17.1%) exact matches, in which:
20 unique CDR3
4 unique J



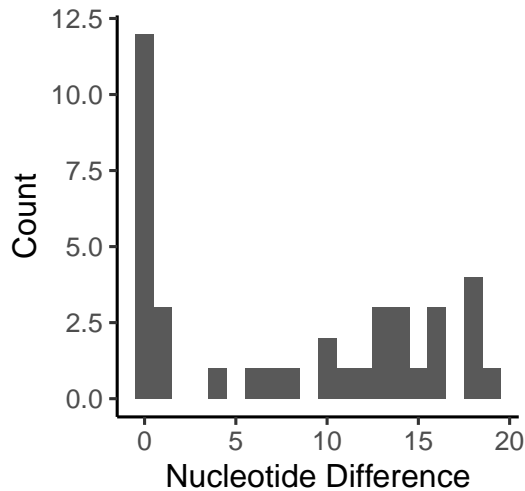
IGHV1-24*01

38 sequences assigned
9 (23.7%) exact matches, in which:
9 unique CDR3
4 unique J



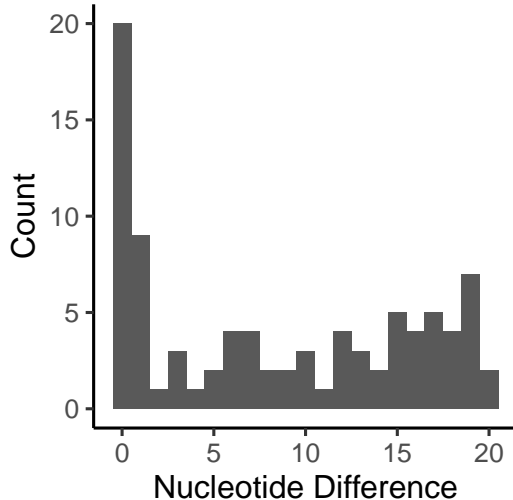
IGHV1-3*01

56 sequences assigned
12 (21.4%) exact matches, in which:
12 unique CDR3
3 unique J



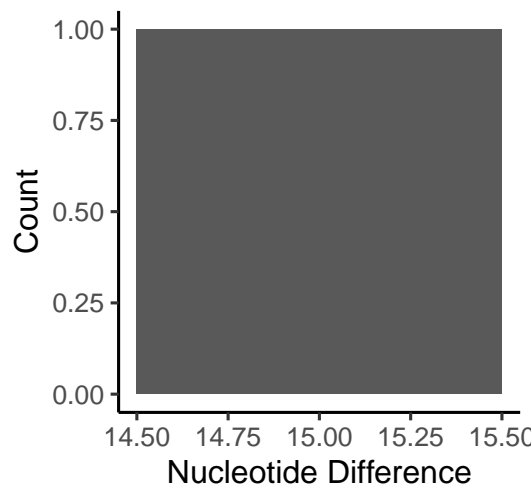
IGHV1-18*01

127 sequences assigned
20 (15.7%) exact matches, in which:
20 unique CDR3
4 unique J



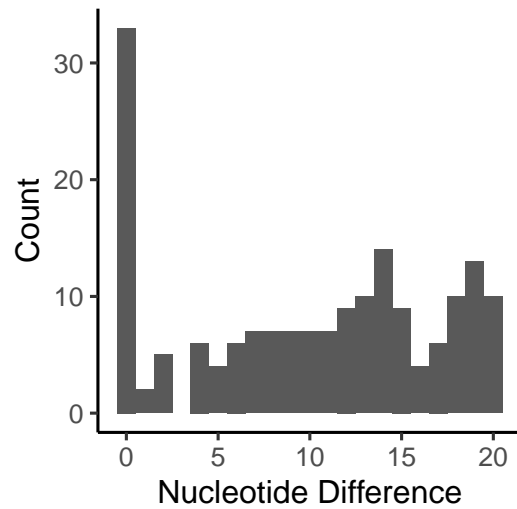
IGHV1-45*02

1 sequences assigned
No exact matches.



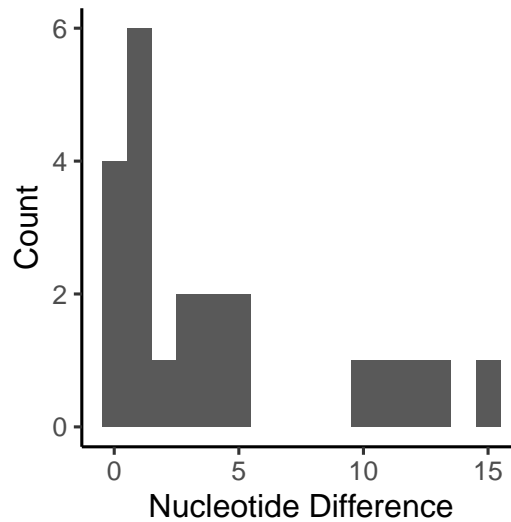
IGHV1-46*01

235 sequences assigned
33 (14%) exact matches, in which:
32 unique CDR3
4 unique J



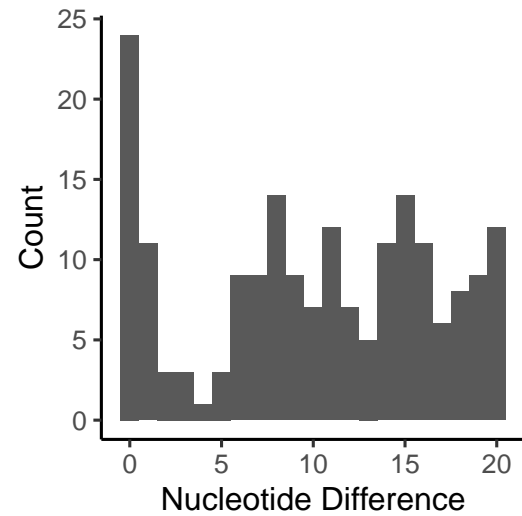
IGHV2-26*01

24 sequences assigned
4 (16.7%) exact matches, in which:
4 unique CDR3
2 unique J



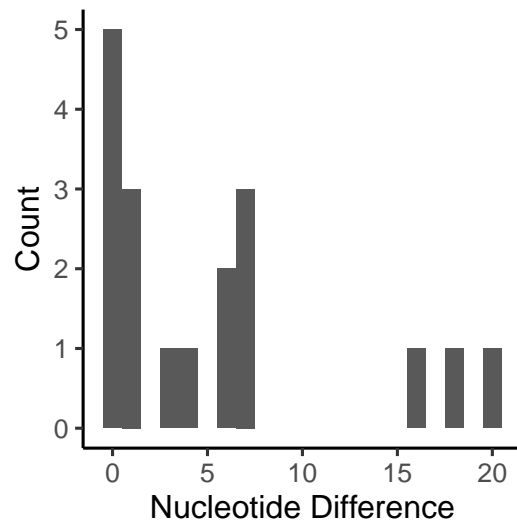
IGHV3-7*01

263 sequences assigned
24 (9.1%) exact matches, in which:
24 unique CDR3
5 unique J



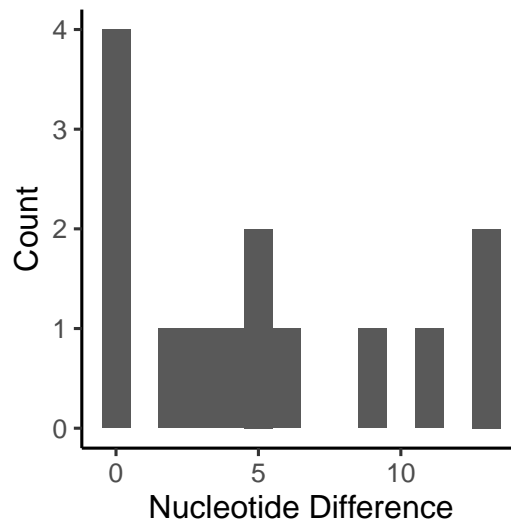
IGHV1-58*01

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



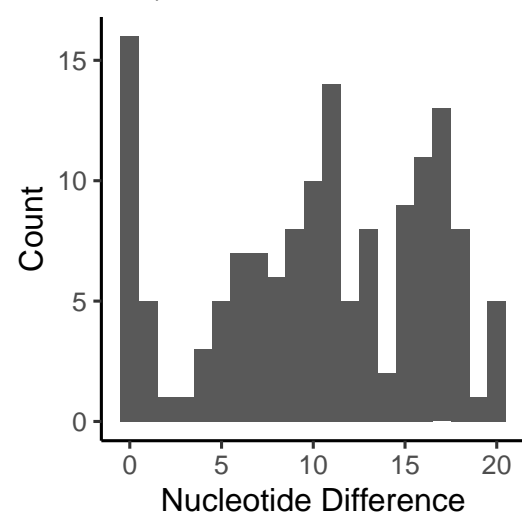
IGHV2-70*01

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



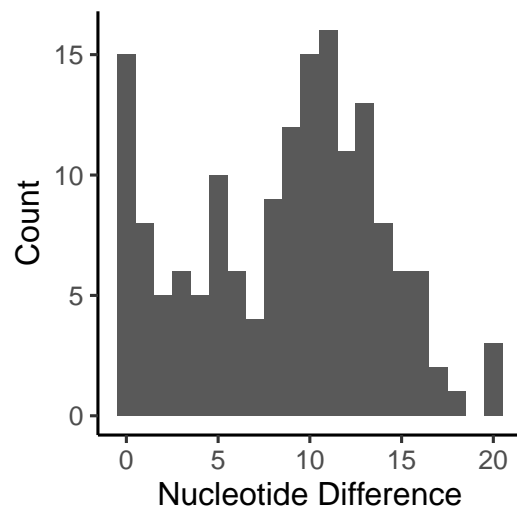
IGHV3-7*03

179 sequences assigned
16 (8.9%) exact matches, in which:
16 unique CDR3
5 unique J



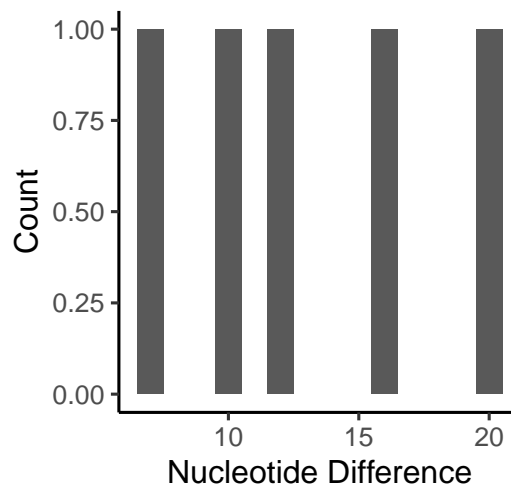
IGHV2-5*02

193 sequences assigned
15 (7.8%) exact matches, in which:
15 unique CDR3
3 unique J



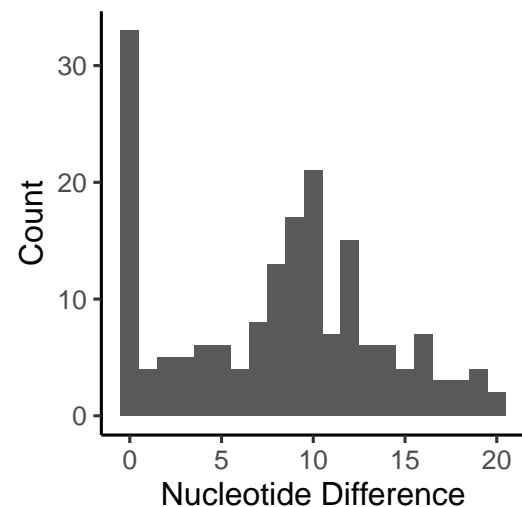
IGHV2-70*13

6 sequences assigned
No exact matches.



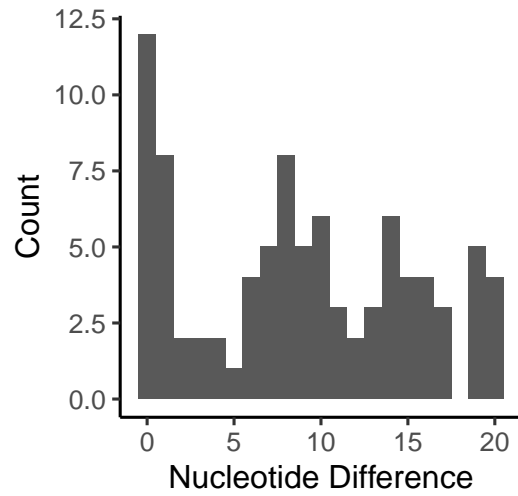
IGHV3-9*01

227 sequences assigned
33 (14.5%) exact matches, in which:
33 unique CDR3
6 unique J



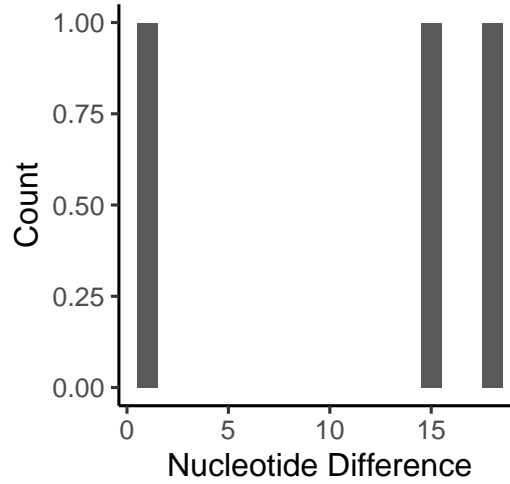
IGHV3-11*01

103 sequences assigned
12 (11.7%) exact matches, in which:
12 unique CDR3
4 unique J



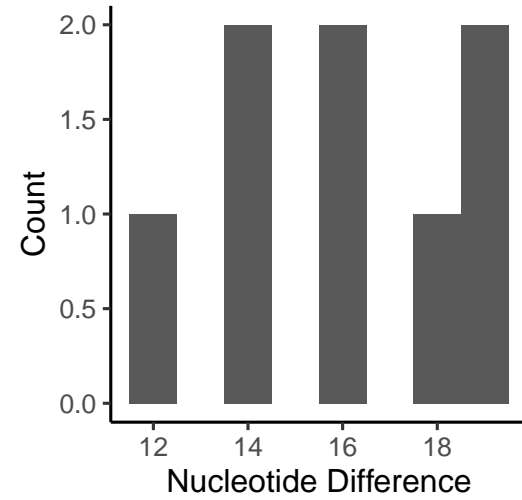
IGHV3-13*05

4 sequences assigned
No exact matches.



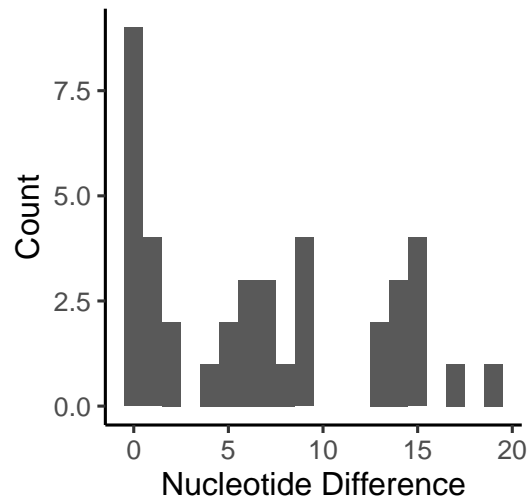
IGHV3-20*04

9 sequences assigned
No exact matches.



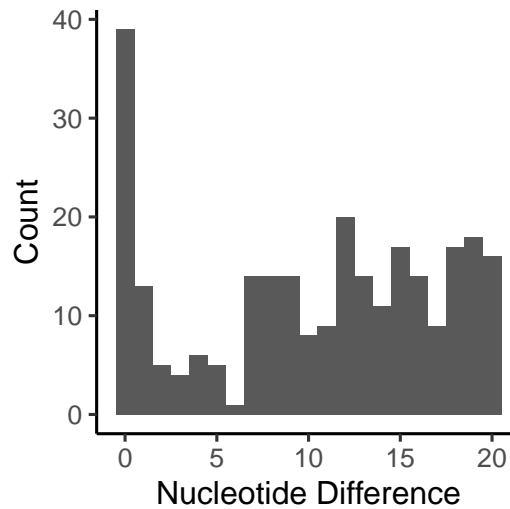
IGHV3-11*06

42 sequences assigned
9 (21.4%) exact matches, in which:
9 unique CDR3
3 unique J



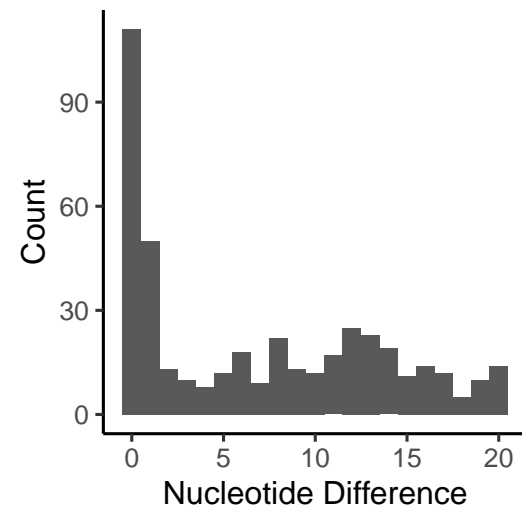
IGHV3-15*01

349 sequences assigned
39 (11.2%) exact matches, in which:
39 unique CDR3
5 unique J



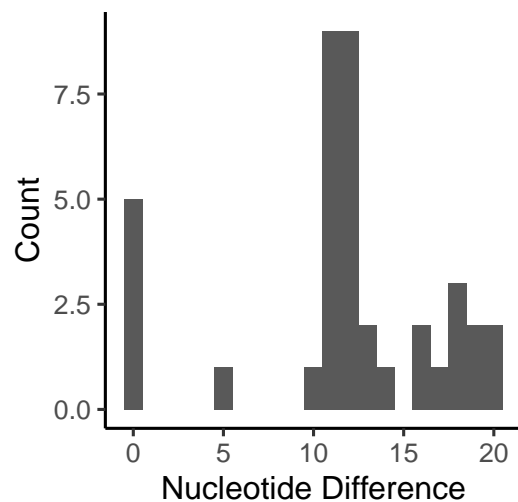
IGHV3-21*01

503 sequences assigned
111 (22.1%) exact matches, in which:
111 unique CDR3
6 unique J



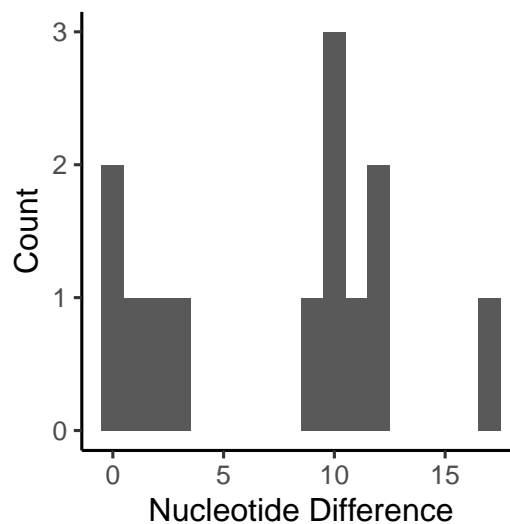
IGHV3-13*01

48 sequences assigned
5 (10.4%) exact matches, in which:
5 unique CDR3
4 unique J



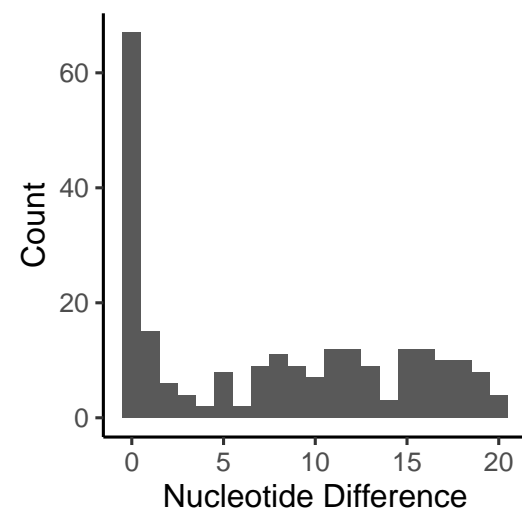
IGHV3-20*01

14 sequences assigned
2 (14.3%) exact matches, in which:
2 unique CDR3
2 unique J



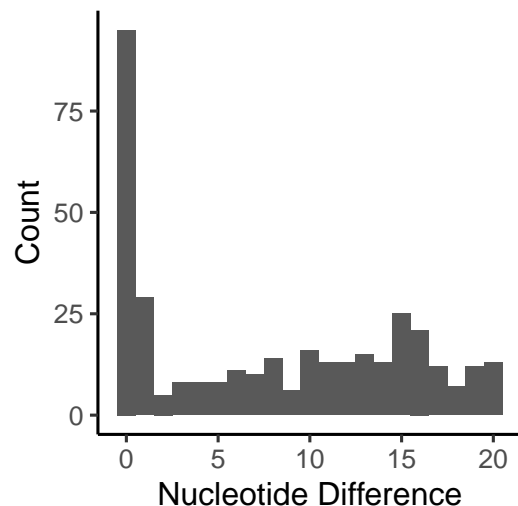
IGHV3-30-3*01

284 sequences assigned
67 (23.6%) exact matches, in which:
67 unique CDR3
5 unique J



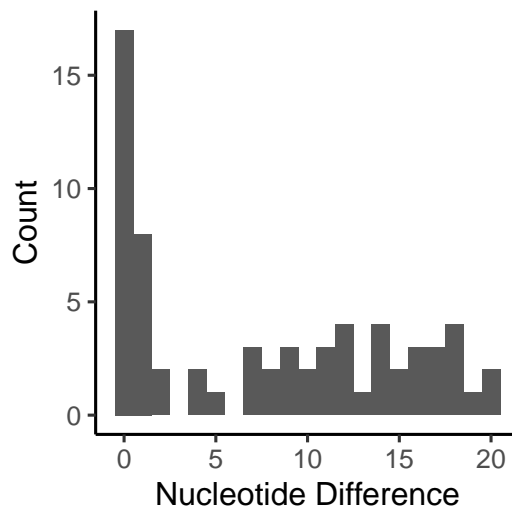
IGHV3-33*01

454 sequences assigned
95 (20.9%) exact matches, in which:
95 unique CDR3
6 unique J



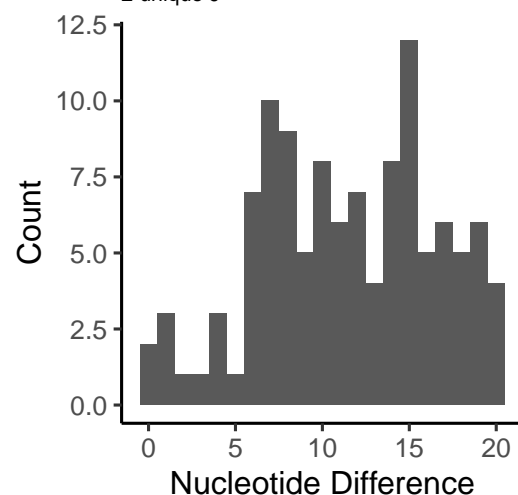
IGHV3-49*05

91 sequences assigned
17 (18.7%) exact matches, in which:
17 unique CDR3
5 unique J



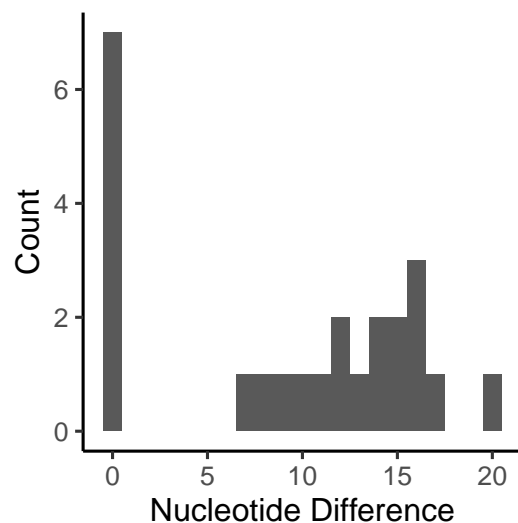
IGHV3-72*01

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



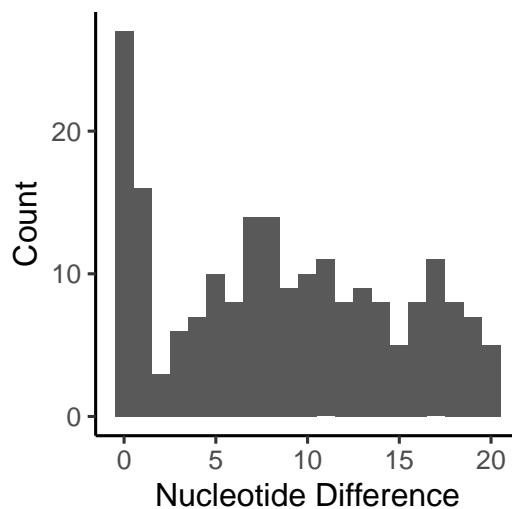
IGHV3-43*01

32 sequences assigned
7 (21.9%) exact matches, in which:
7 unique CDR3
3 unique J



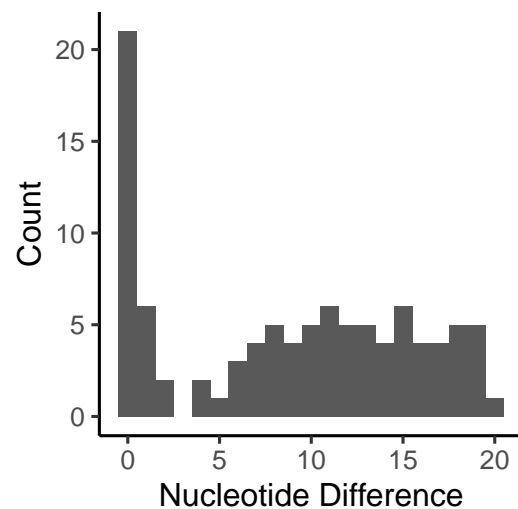
IGHV3-53*01

278 sequences assigned
27 (9.7%) exact matches, in which:
27 unique CDR3
6 unique J



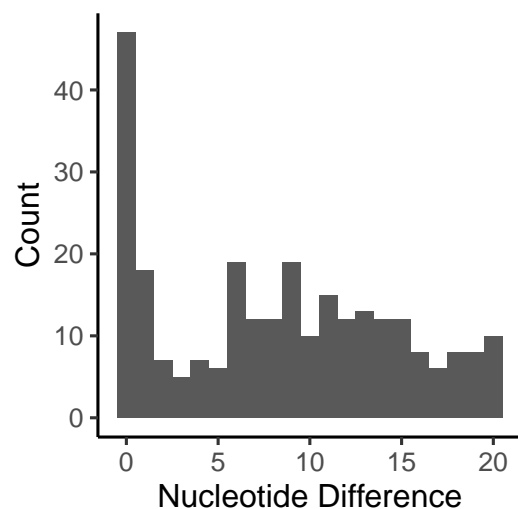
IGHV3-73*02

126 sequences assigned
21 (16.7%) exact matches, in which:
21 unique CDR3
4 unique J



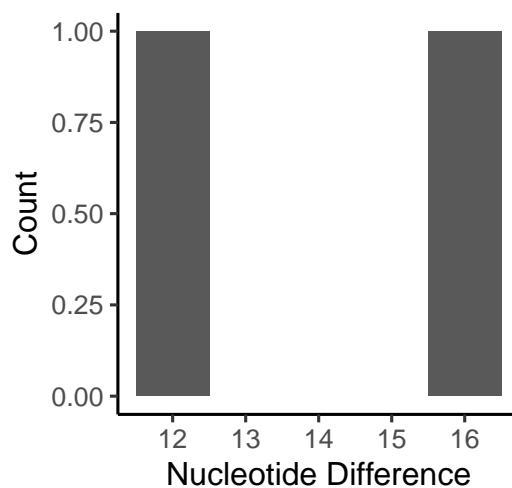
IGHV3-48*02

316 sequences assigned
47 (14.9%) exact matches, in which:
46 unique CDR3
4 unique J



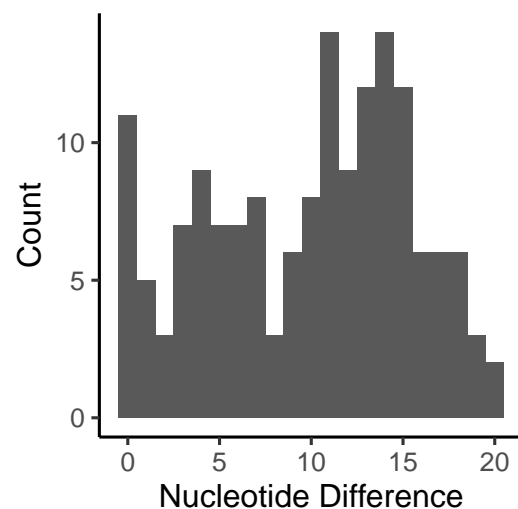
IGHV3-64*02

4 sequences assigned
No exact matches.



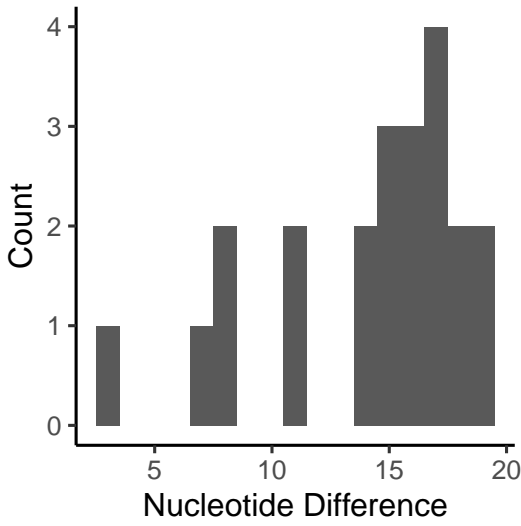
IGHV3-74*01

180 sequences assigned
11 (6.1%) exact matches, in which:
11 unique CDR3
3 unique J



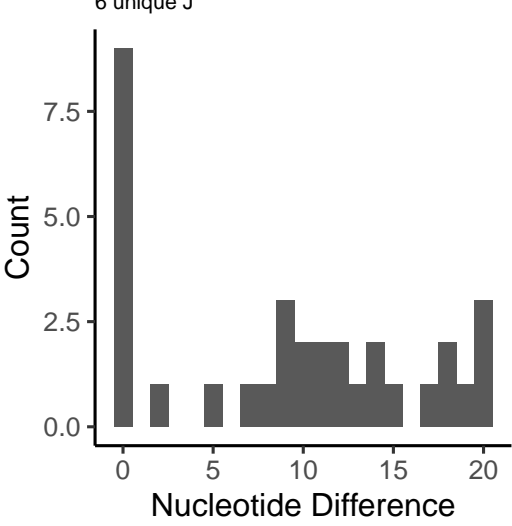
IGHV3-74*03

30 sequences assigned
No exact matches.



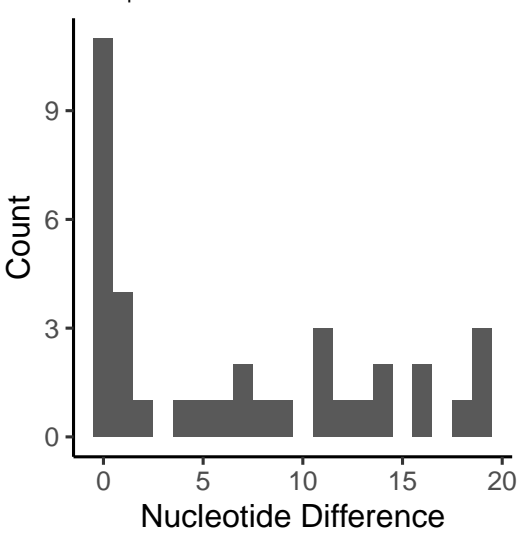
IGHV4-4*02

51 sequences assigned
9 (17.6%) exact matches, in which:
9 unique CDR3
6 unique J



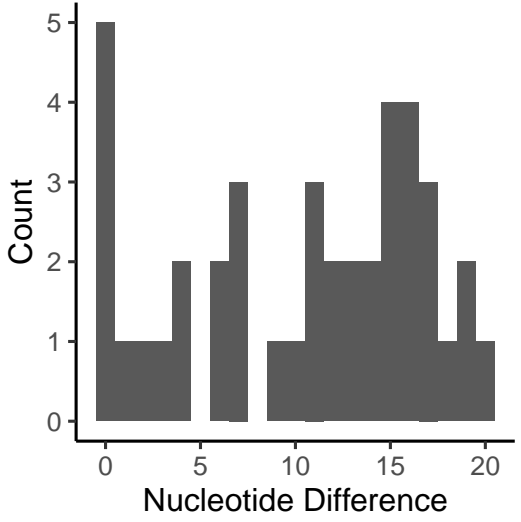
IGHV4-30-4*01

50 sequences assigned
11 (22%) exact matches, in which:
11 unique CDR3
4 unique J



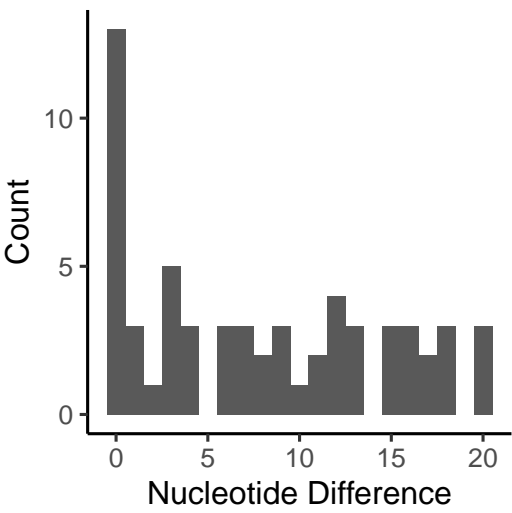
IGHV3-64D*06

50 sequences assigned
5 (10%) exact matches, in which:
5 unique CDR3
3 unique J



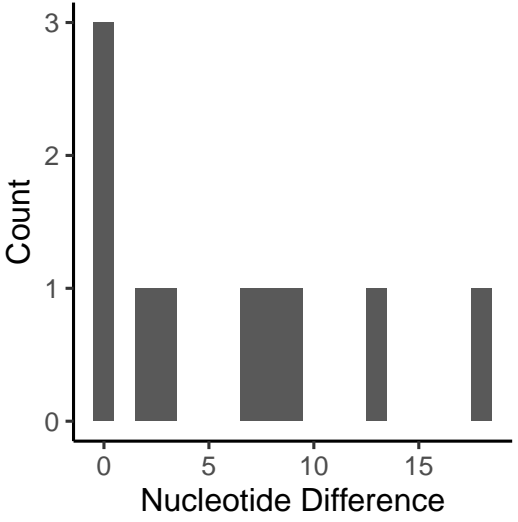
IGHV4-4*07

98 sequences assigned
13 (13.3%) exact matches, in which:
13 unique CDR3
5 unique J



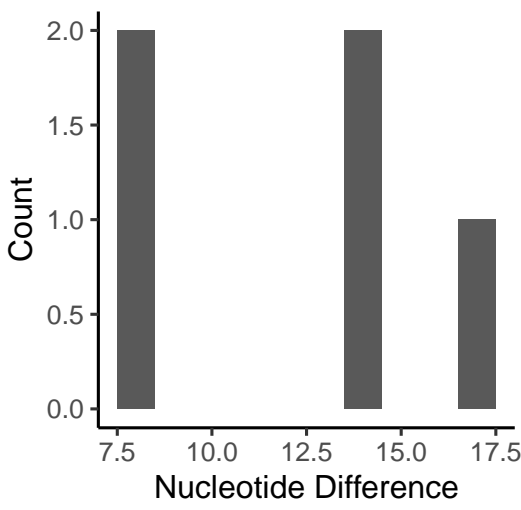
IGHV4-30-2*01

16 sequences assigned
3 (18.8%) exact matches, in which:
3 unique CDR3
2 unique J



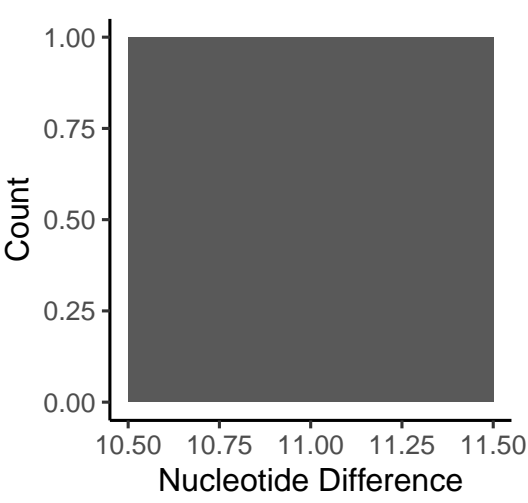
IGHV3-64D*08

7 sequences assigned
No exact matches.



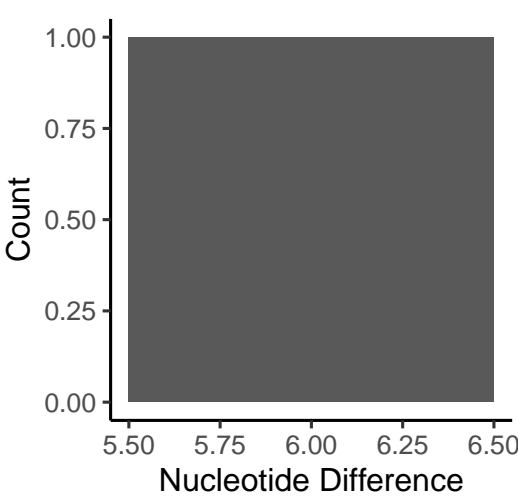
IGHV4-28*07

1 sequences assigned
No exact matches.



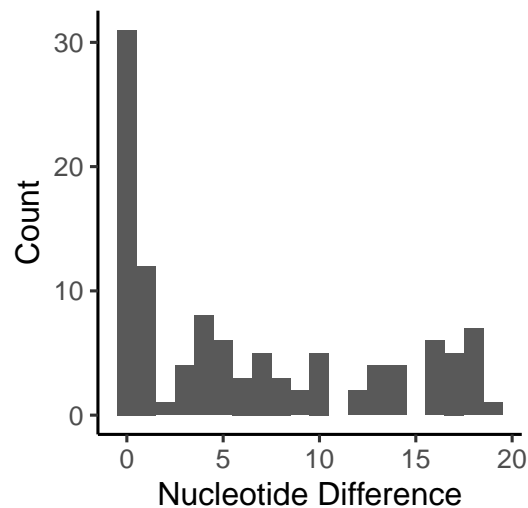
IGHV4-30-2*06

2 sequences assigned
No exact matches.



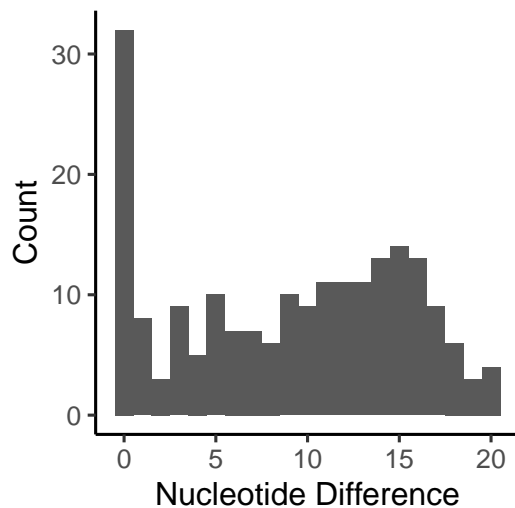
IGHV4-31*03

161 sequences assigned
31 (19.3%) exact matches, in which:
31 unique CDR3
5 unique J



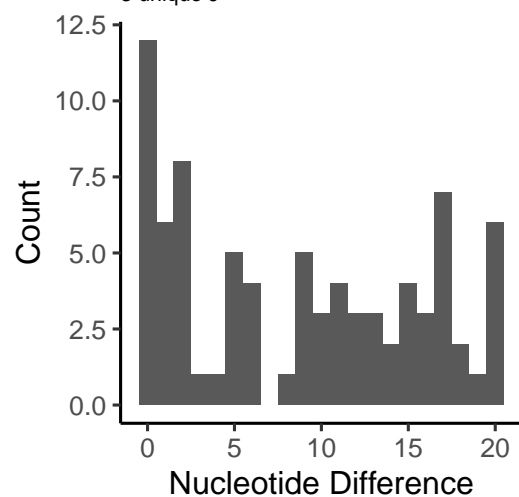
IGHV4-59*01

288 sequences assigned
32 (11.1%) exact matches, in which:
32 unique CDR3
5 unique J



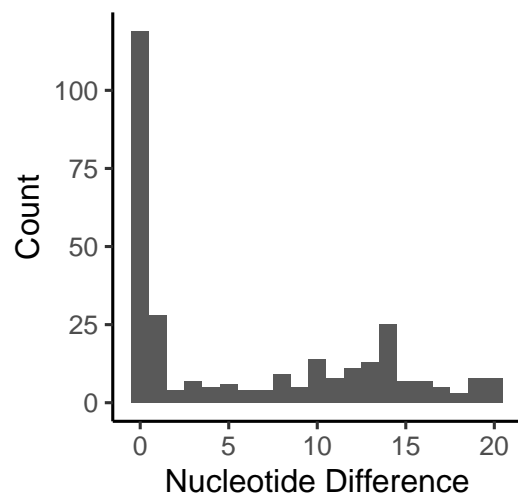
IGHV5-10-1*03

105 sequences assigned
12 (11.4%) exact matches, in which:
12 unique CDR3
3 unique J



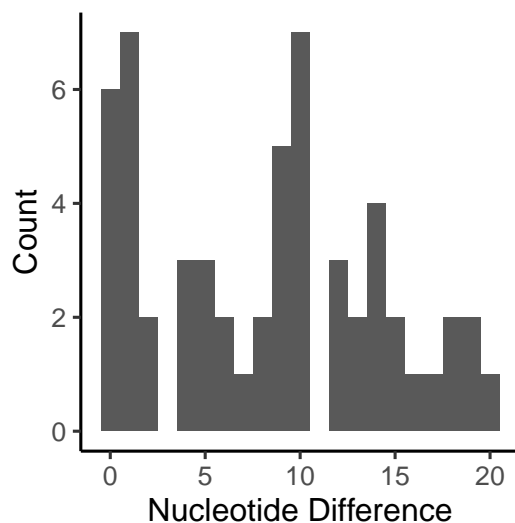
IGHV4-34*01

373 sequences assigned
119 (31.9%) exact matches, in which:
119 unique CDR3
6 unique J



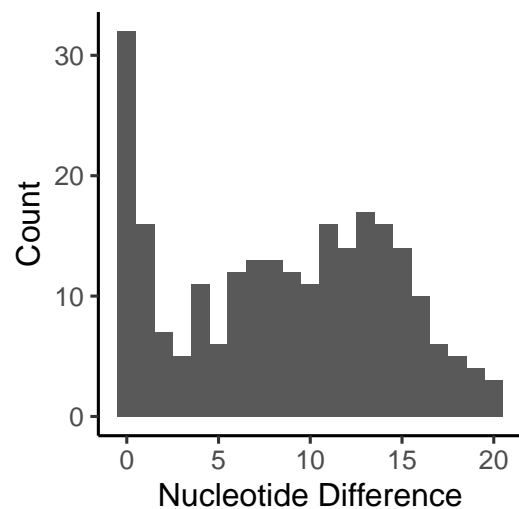
IGHV4-61*01

69 sequences assigned
6 (8.7%) exact matches, in which:
6 unique CDR3
3 unique J



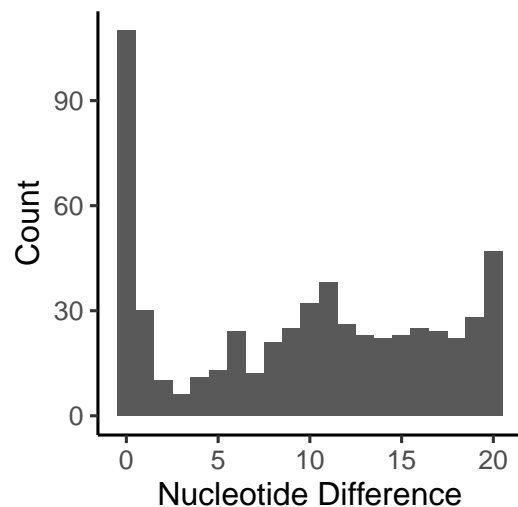
IGHV5-51*01

299 sequences assigned
32 (10.7%) exact matches, in which:
32 unique CDR3
6 unique J



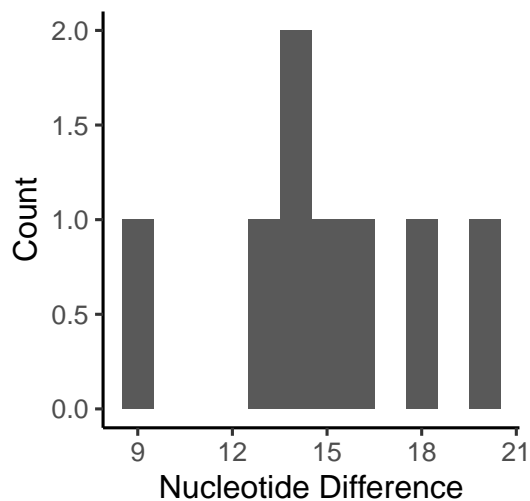
IGHV4-39*01

760 sequences assigned
110 (14.5%) exact matches, in which:
109 unique CDR3
6 unique J



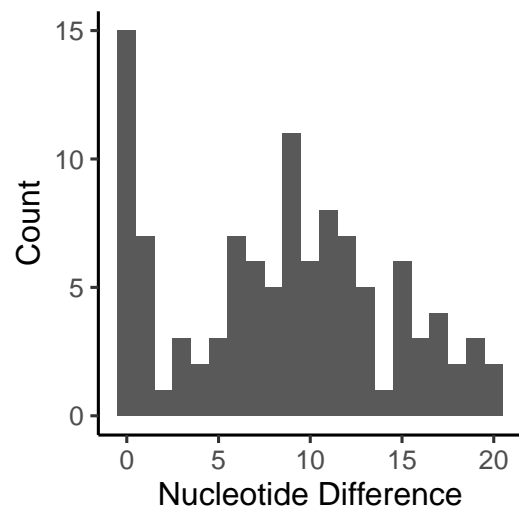
IGHV4-61*08

14 sequences assigned
No exact matches.



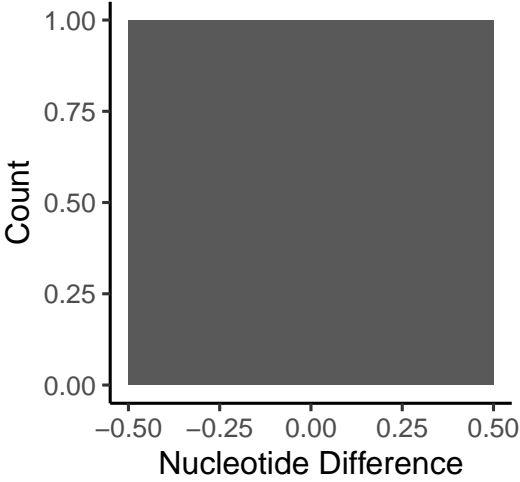
IGHV6-1*01

118 sequences assigned
15 (12.7%) exact matches, in which:
15 unique CDR3
4 unique J



IGHV7-4-1*01

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





Warning – no inferred sequences found.