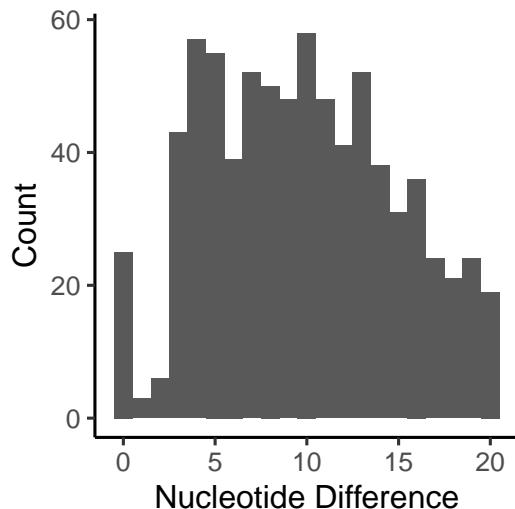


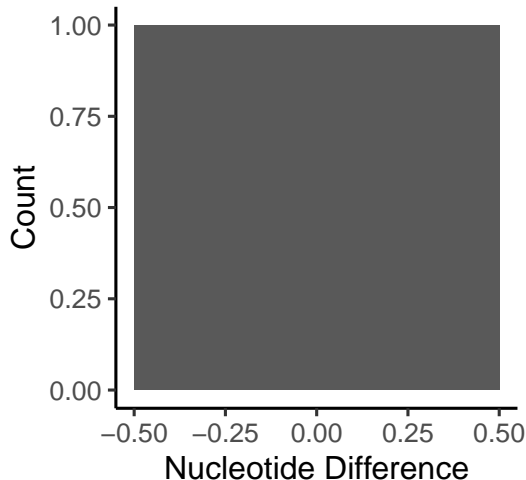
IGHV1-2*02

908 sequences assigned
25 (2.8%) exact matches, in which:
24 unique CDR3
3 unique J



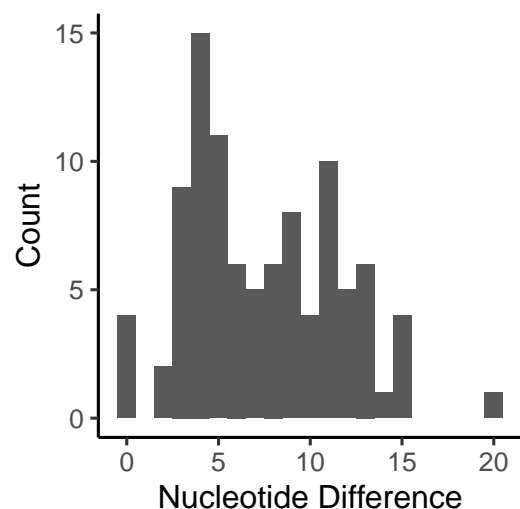
IGHV1-3*01_05

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



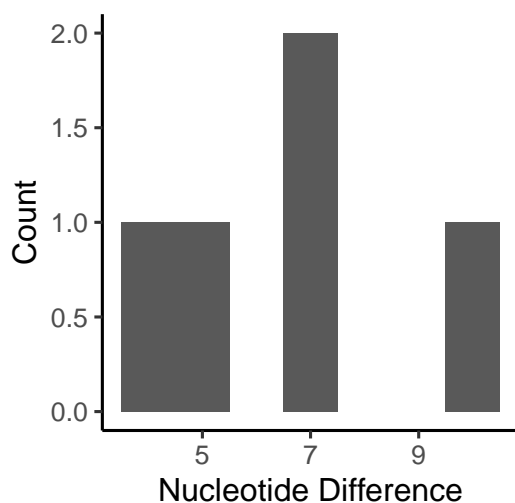
IGHV1-24*01

98 sequences assigned
4 (4.1%) exact matches, in which:
4 unique CDR3
3 unique J



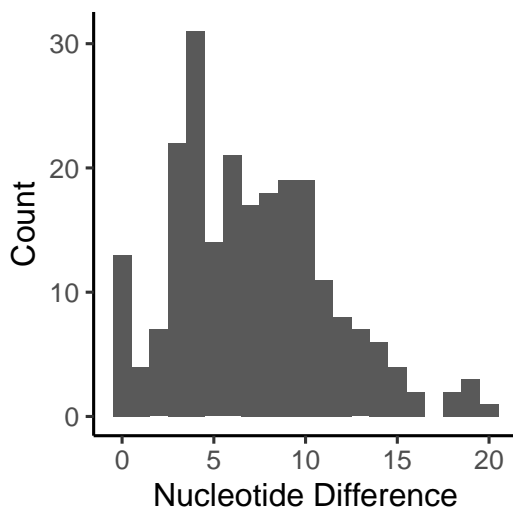
IGHV1-3*02

5 sequences assigned
No exact matches.



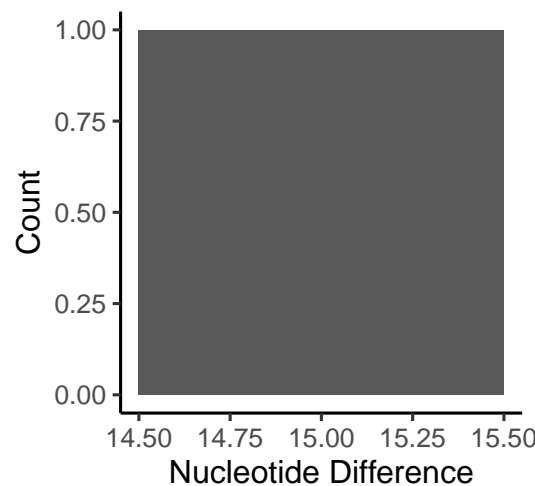
IGHV1-8*01

241 sequences assigned
13 (5.4%) exact matches, in which:
12 unique CDR3
5 unique J



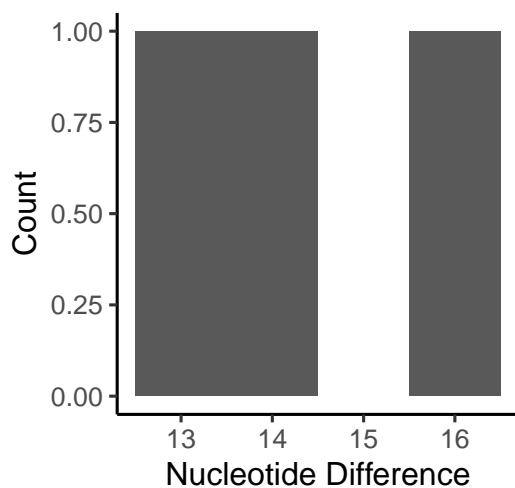
IGHV1-45*02

2 sequences assigned
No exact matches.



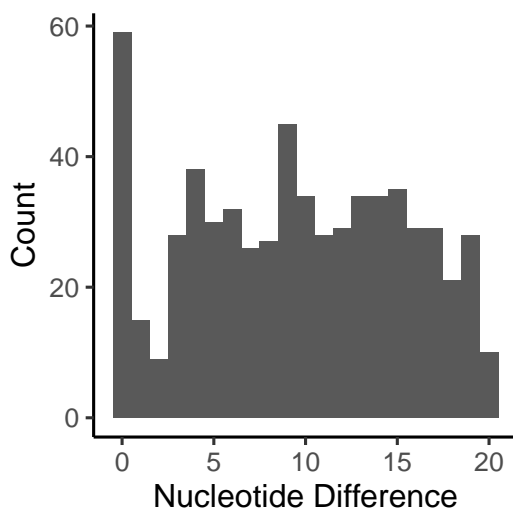
IGHV1-3*03

3 sequences assigned
No exact matches.



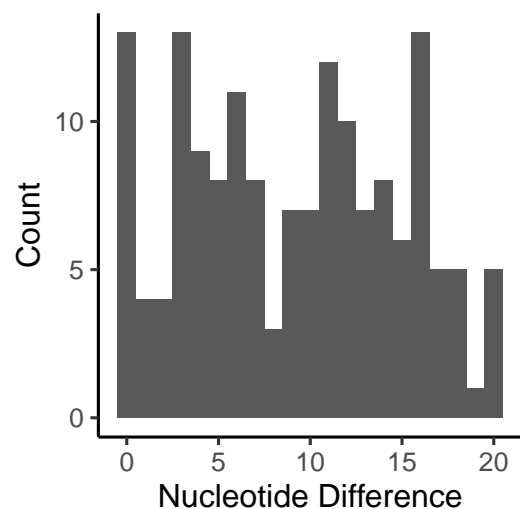
IGHV1-18*01

761 sequences assigned
59 (7.8%) exact matches, in which:
50 unique CDR3
6 unique J



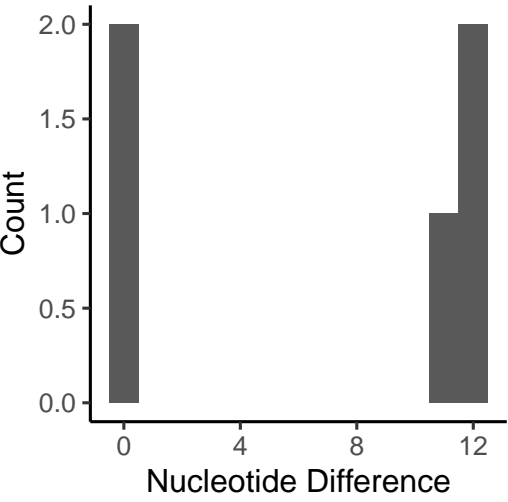
IGHV1-46*01

196 sequences assigned
13 (6.6%) exact matches, in which:
13 unique CDR3
4 unique J



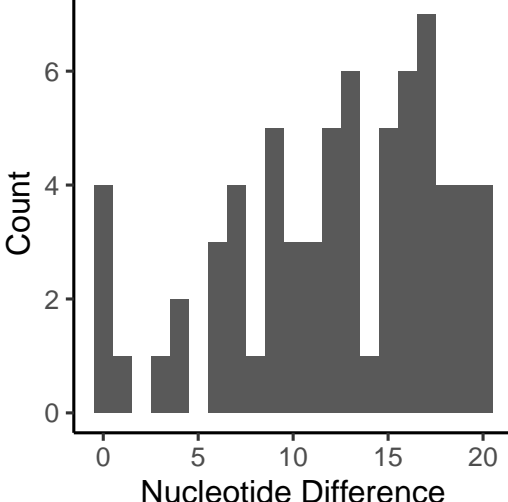
IGHV1-58*02

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
1 unique J



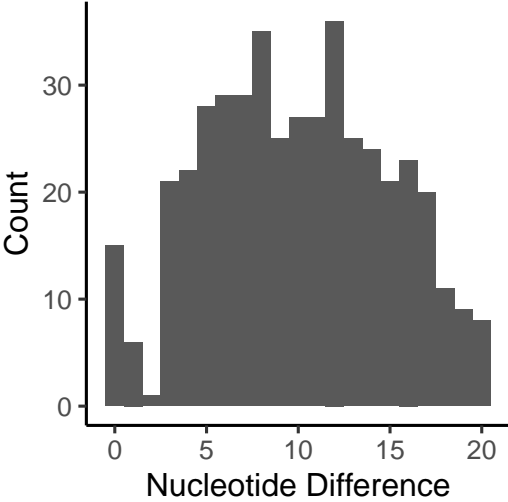
IGHV1-69*02

98 sequences assigned
4 (4.1%) exact matches, in which:
4 unique CDR3
2 unique J



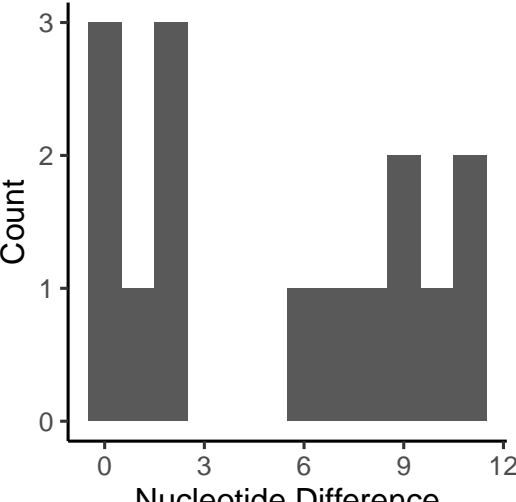
IGHV2-5*01

602 sequences assigned
15 (2.5%) exact matches, in which:
15 unique CDR3
5 unique J



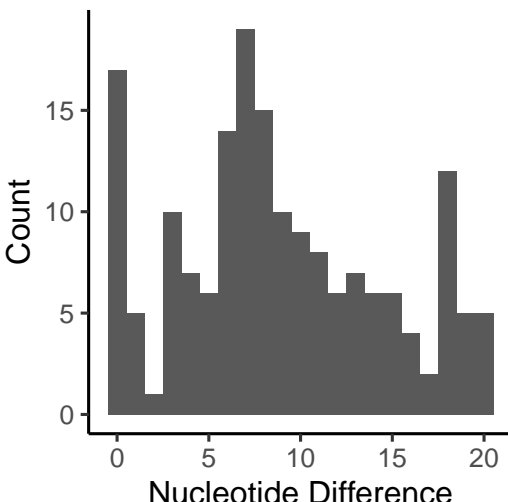
IGHV1-58*01_03

18 sequences assigned
3 (16.7%) exact matches, in which:
3 unique CDR3
3 unique J



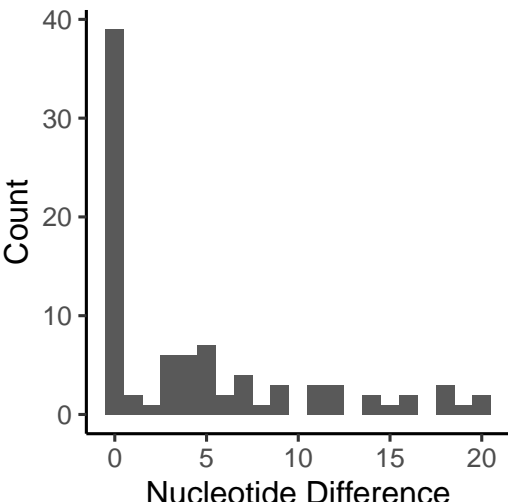
IGHV1-69*01_12_13

197 sequences assigned
17 (8.6%) exact matches, in which:
16 unique CDR3
5 unique J



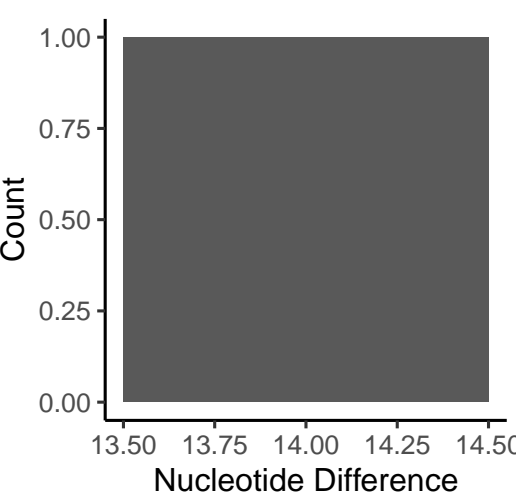
IGHV2-26*01

89 sequences assigned
39 (43.8%) exact matches, in which:
36 unique CDR3
5 unique J



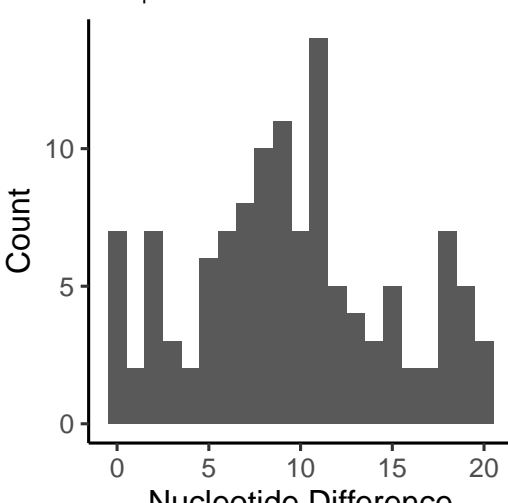
IGHV1-69-2*01

1 sequences assigned
No exact matches.



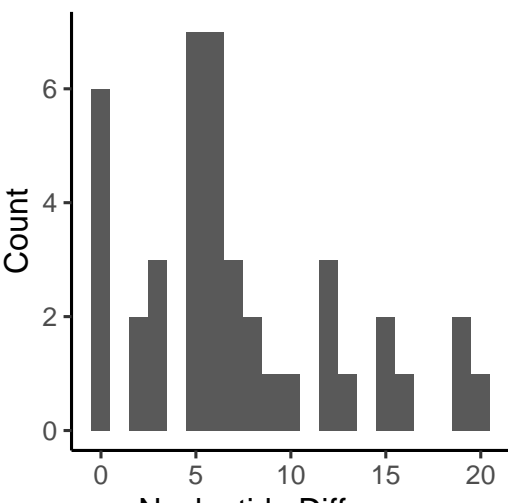
IGHV1-69*17

136 sequences assigned
7 (5.1%) exact matches, in which:
7 unique CDR3
3 unique J



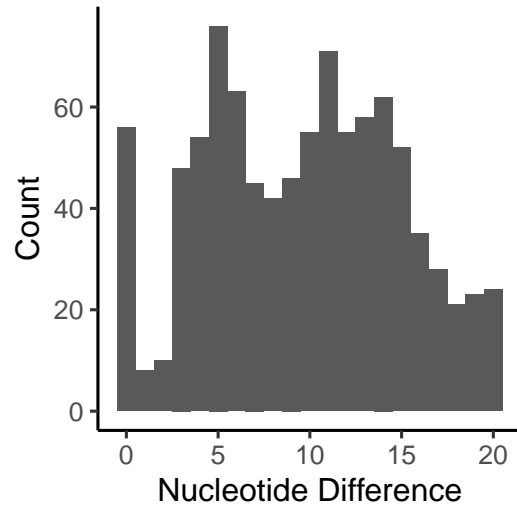
IGHV2-70*01

45 sequences assigned
6 (13.3%) exact matches, in which:
6 unique CDR3
3 unique J



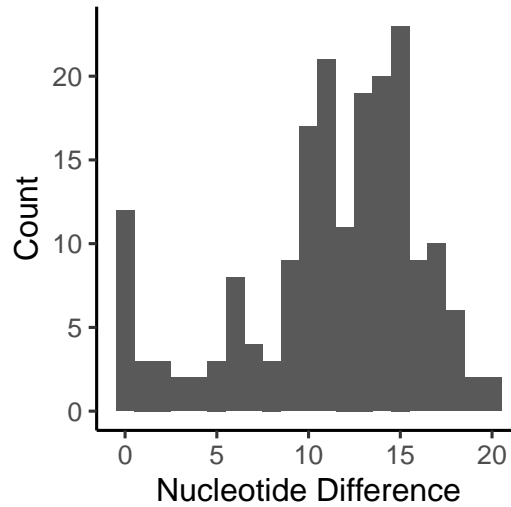
IGHV3-7*01

1006 sequences assigned
56 (5.6%) exact matches, in which:
31 unique CDR3
5 unique J



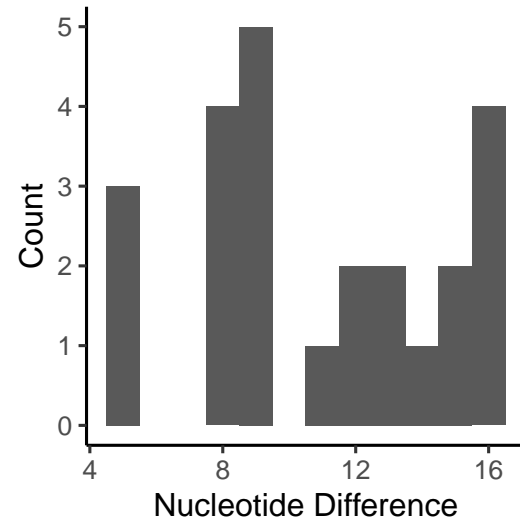
IGHV3-13*01

221 sequences assigned
12 (5.4%) exact matches, in which:
5 unique CDR3
2 unique J



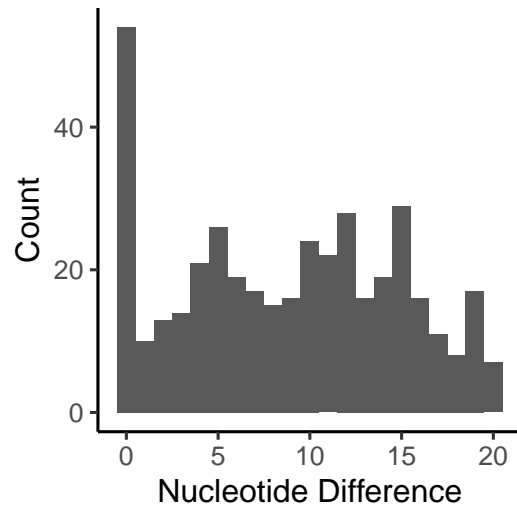
IGHV3-20*03_04

24 sequences assigned
No exact matches.



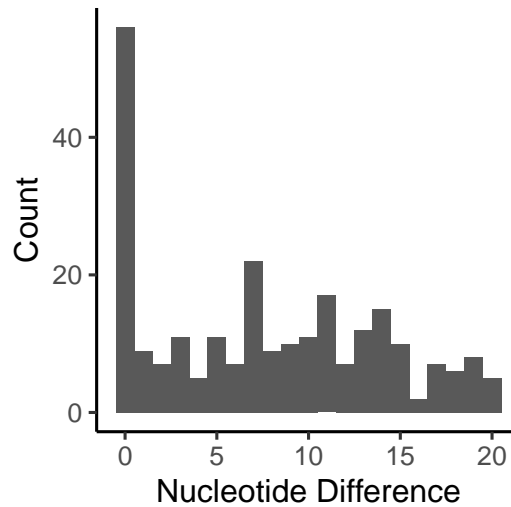
IGHV3-9*01

444 sequences assigned
54 (12.2%) exact matches, in which:
32 unique CDR3
3 unique J



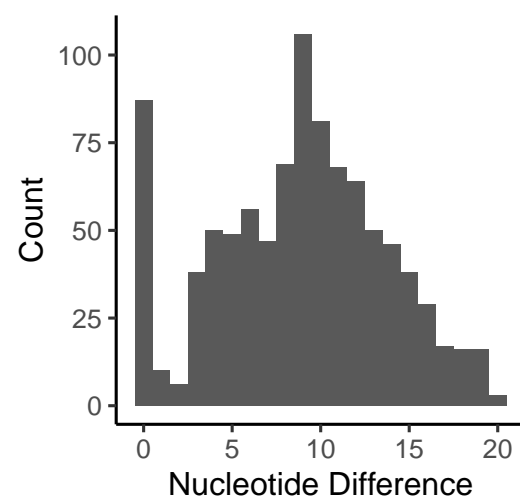
IGHV3-15*01_02

259 sequences assigned
56 (21.6%) exact matches, in which:
29 unique CDR3
5 unique J



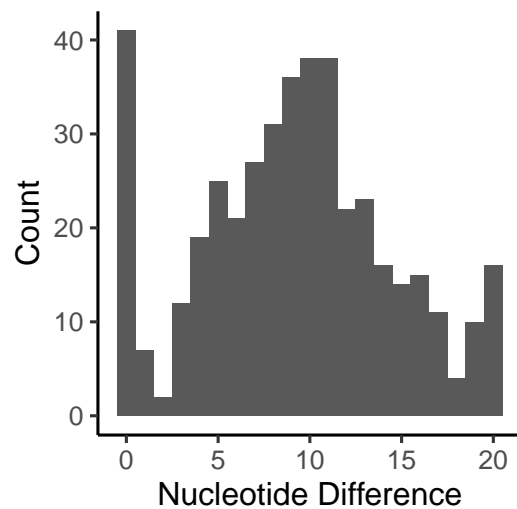
IGHV3-21*01_02

1052 sequences assigned
87 (8.3%) exact matches, in which:
44 unique CDR3
5 unique J



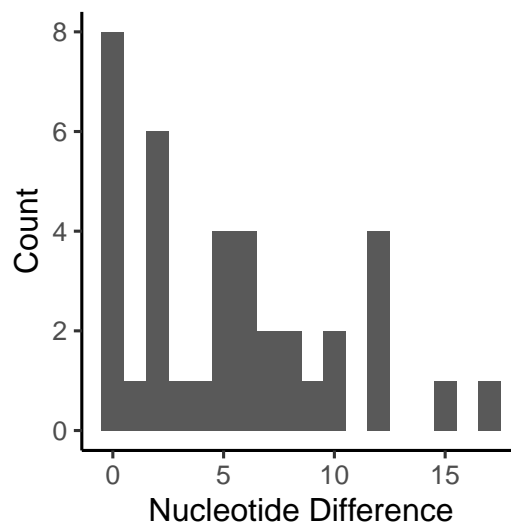
IGHV3-11*01

469 sequences assigned
41 (8.7%) exact matches, in which:
23 unique CDR3
5 unique J



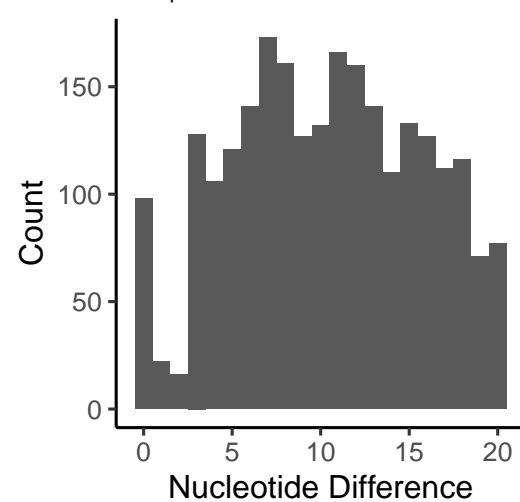
IGHV3-20*01_02

38 sequences assigned
8 (21.1%) exact matches, in which:
5 unique CDR3
3 unique J



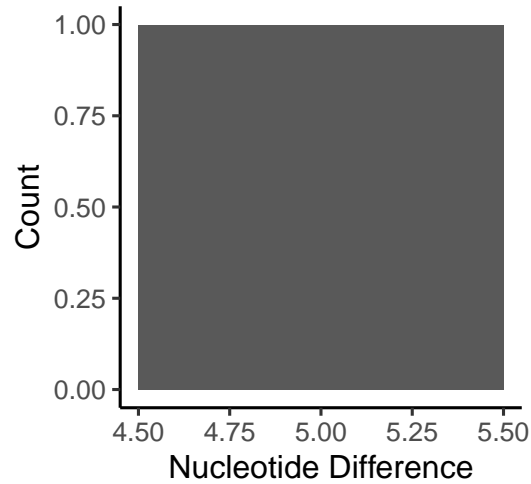
IGHV3-23*01_04

2748 sequences assigned
98 (3.6%) exact matches, in which:
51 unique CDR3
5 unique J



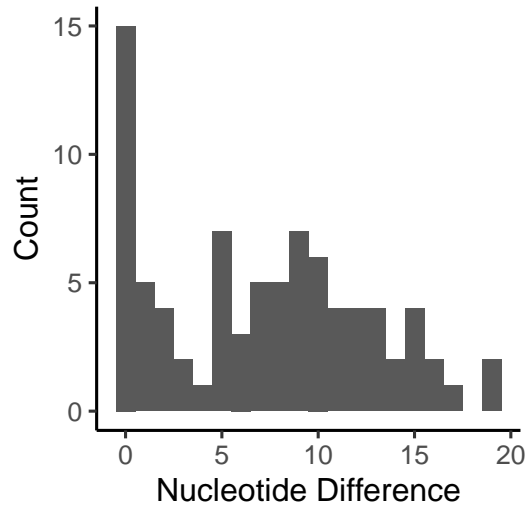
IGHV3-30-3*02

1 sequences assigned
No exact matches.



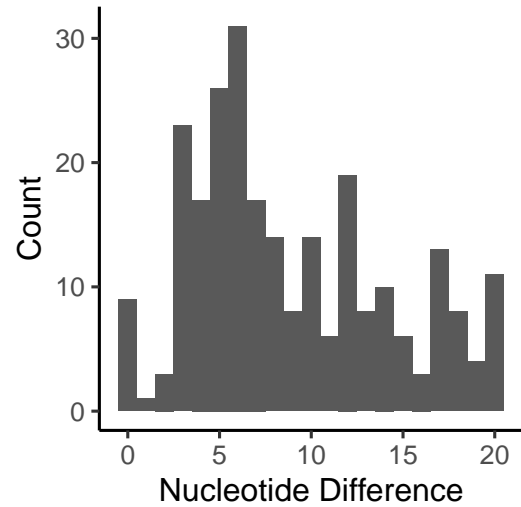
IGHV3-43*01

94 sequences assigned
15 (16%) exact matches, in which:
7 unique CDR3
2 unique J



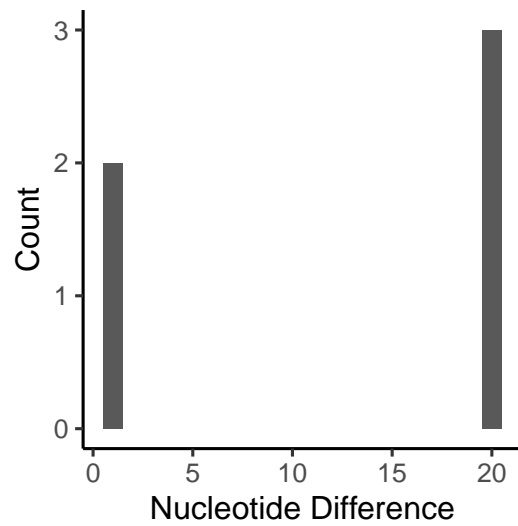
IGHV3-53*01_02

269 sequences assigned
9 (3.3%) exact matches, in which:
6 unique CDR3
3 unique J



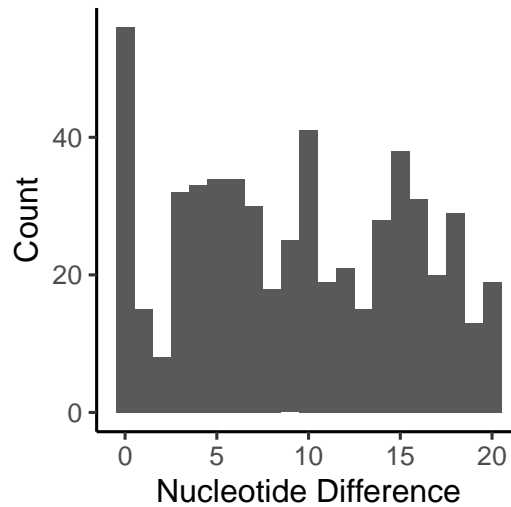
IGHV3-30-3*03

6 sequences assigned
No exact matches.



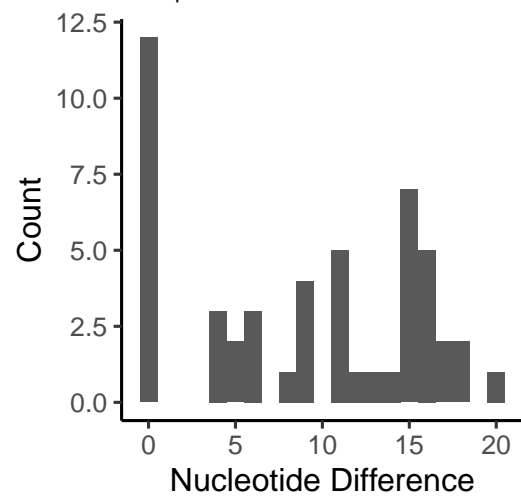
IGHV3-48*02

627 sequences assigned
56 (8.9%) exact matches, in which:
22 unique CDR3
4 unique J



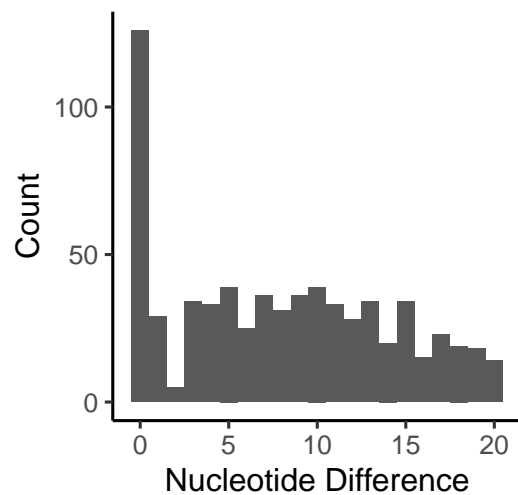
IGHV3-64*01

59 sequences assigned
12 (20.3%) exact matches, in which:
6 unique CDR3
4 unique J



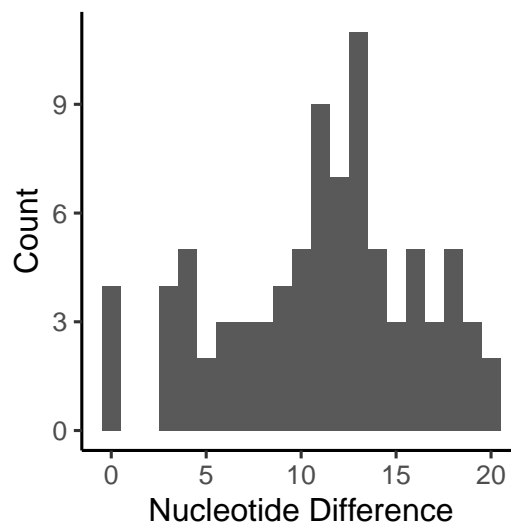
IGHV3-33*01

758 sequences assigned
126 (16.6%) exact matches, in which:
69 unique CDR3
5 unique J



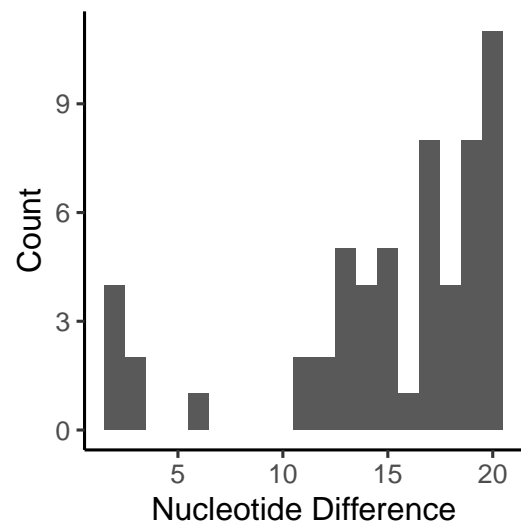
IGHV3-49*03_05

124 sequences assigned
4 (3.2%) exact matches, in which:
3 unique CDR3
2 unique J



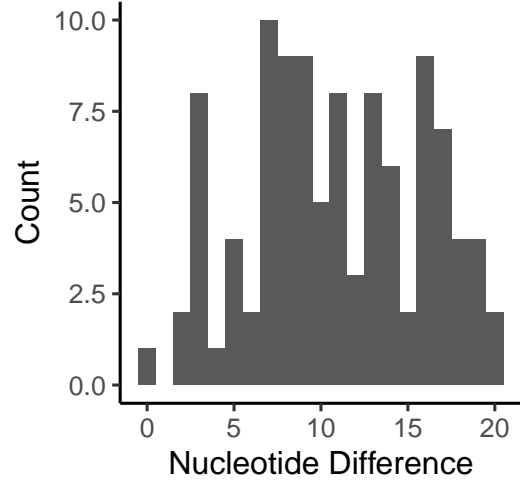
IGHV3-64*02_07

124 sequences assigned
No exact matches.



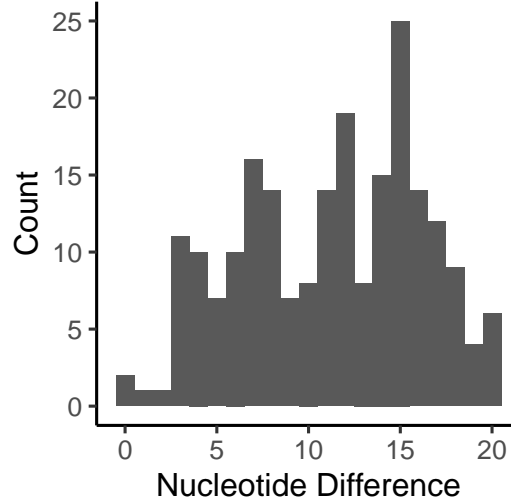
IGHV3-66*02

115 sequences assigned
1 (0.9%) exact matches, in which:
1 unique CDR3
1 unique J



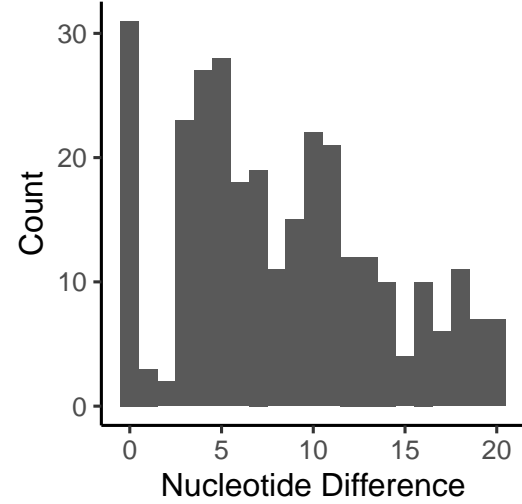
IGHV3-72*01

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



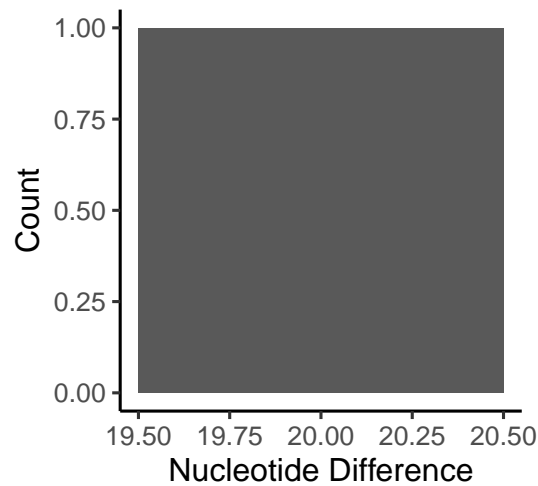
IGHV3-74*01_02

307 sequences assigned
31 (10.1%) exact matches, in which:
15 unique CDR3
4 unique J



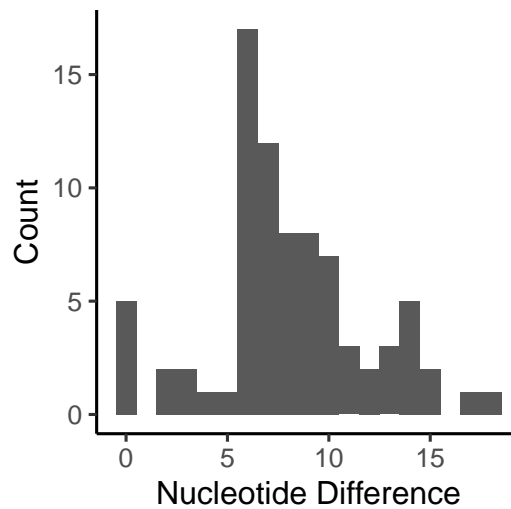
IGHV3-69-1*01

2 sequences assigned
No exact matches.



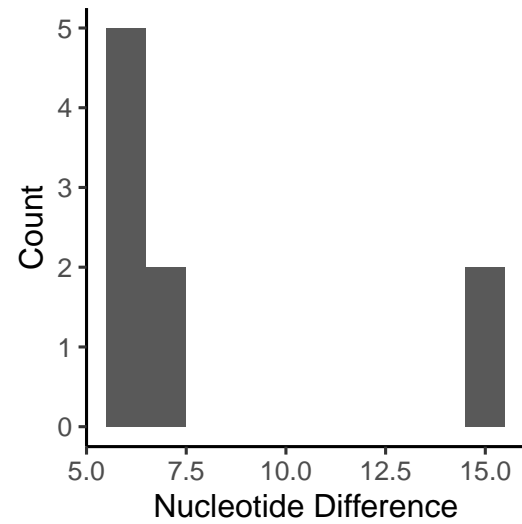
IGHV3-73*01_02

87 sequences assigned
5 (5.7%) exact matches, in which:
4 unique CDR3
4 unique J



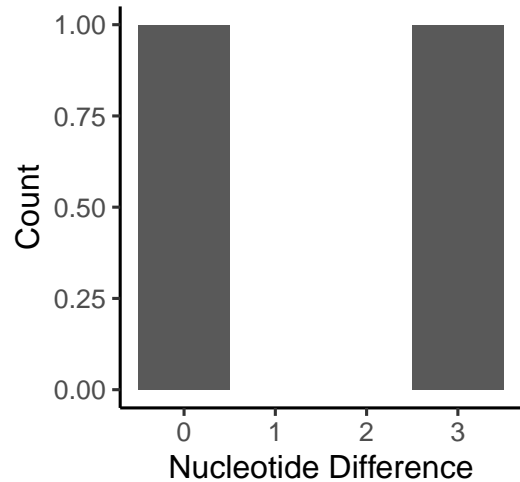
IGHV3-43D*04

9 sequences assigned
No exact matches.



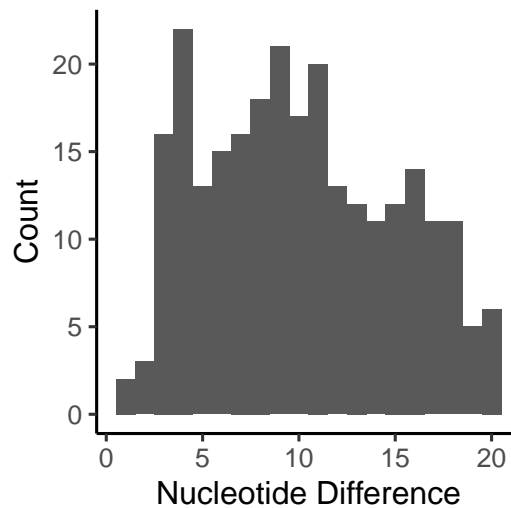
IGHV3-69-1*02

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



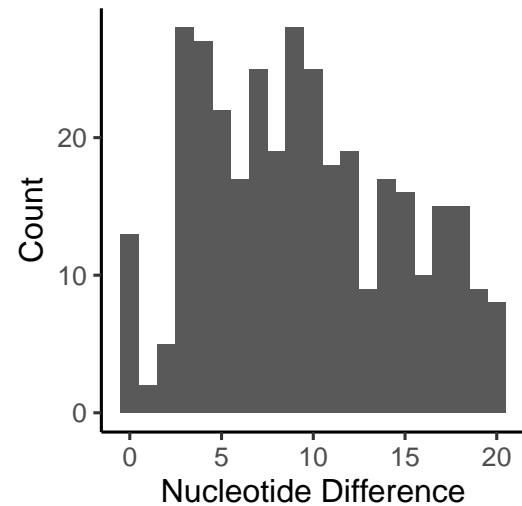
IGHV3-74*03

272 sequences assigned
No exact matches.



IGHV4-4*07

408 sequences assigned
13 (3.2%) exact matches, in which:
9 unique CDR3
4 unique J



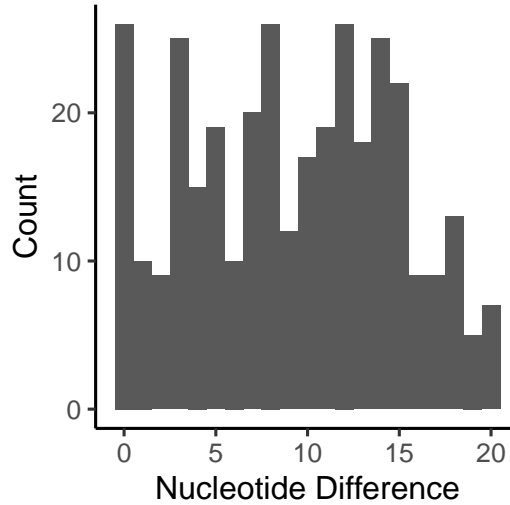
IGHV4-28*03

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



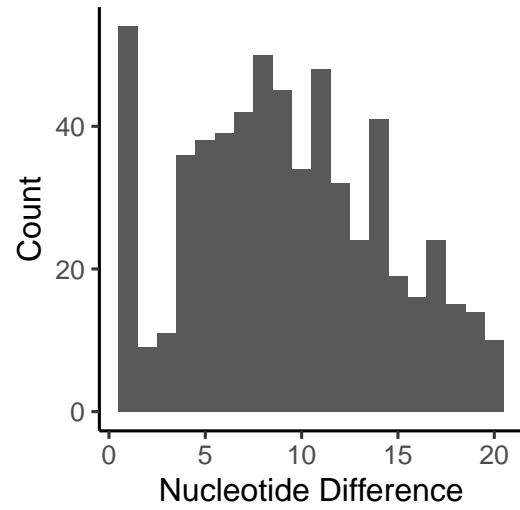
IGHV4-31*02

492 sequences assigned
26 (5.3%) exact matches, in which:
19 unique CDR3
4 unique J



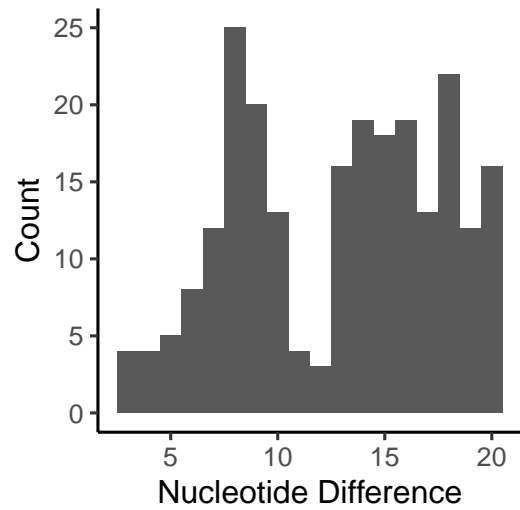
IGHV4-39*02

714 sequences assigned
No exact matches.



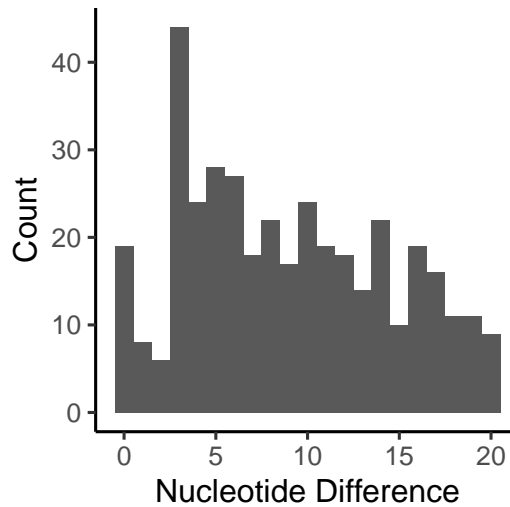
IGHV4-30-2*01

604 sequences assigned
No exact matches.



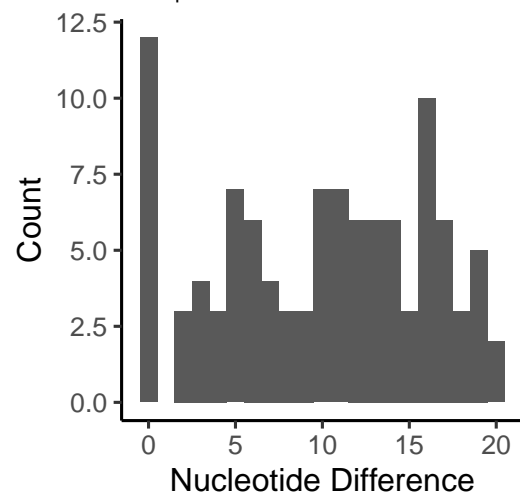
IGHV4-34*01_02

464 sequences assigned
19 (4.1%) exact matches, in which:
11 unique CDR3
4 unique J



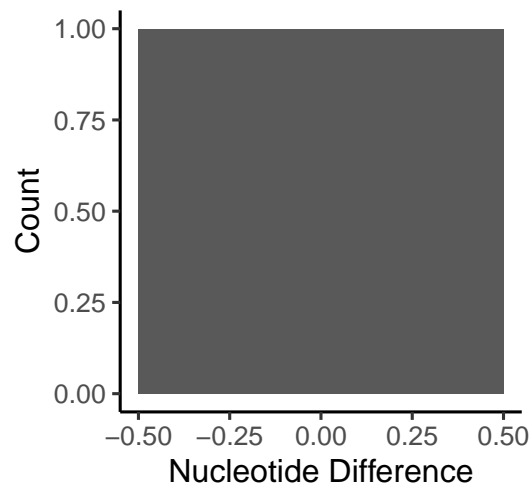
IGHV4-39*01_05

124 sequences assigned
12 (9.7%) exact matches, in which:
7 unique CDR3
2 unique J



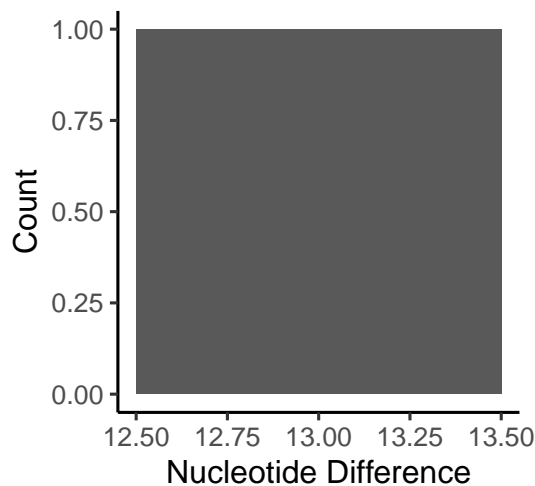
IGHV4-30-4*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



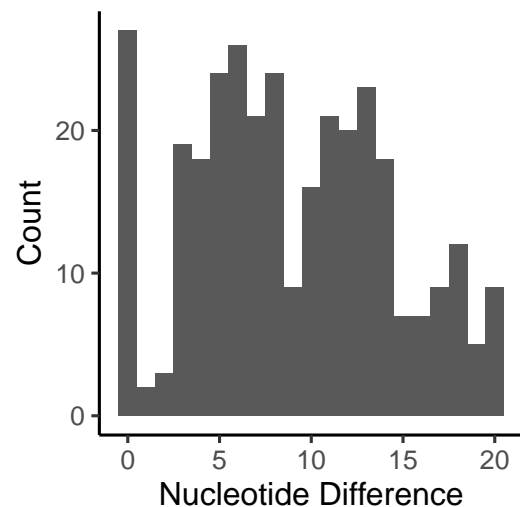
IGHV4-38-2*02

1 sequences assigned
No exact matches.



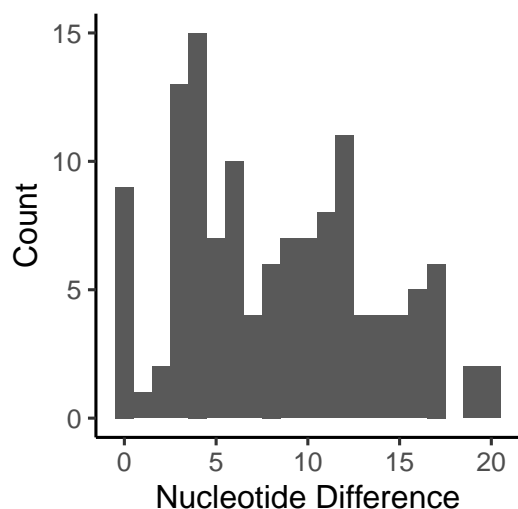
IGHV4-59*08

384 sequences assigned
27 (7%) exact matches, in which:
17 unique CDR3
3 unique J



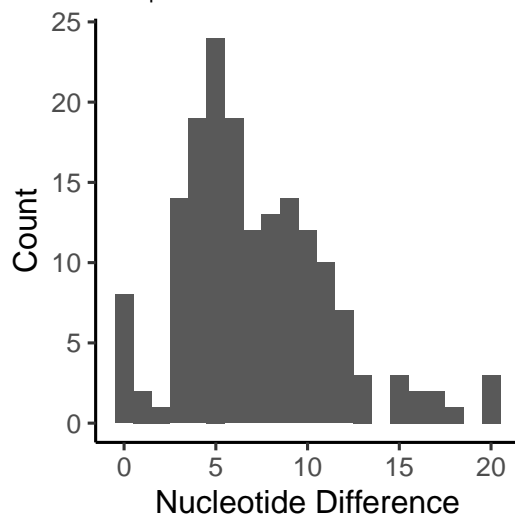
IGHV4-61*01

160 sequences assigned
9 (5.6%) exact matches, in which:
5 unique CDR3
4 unique J



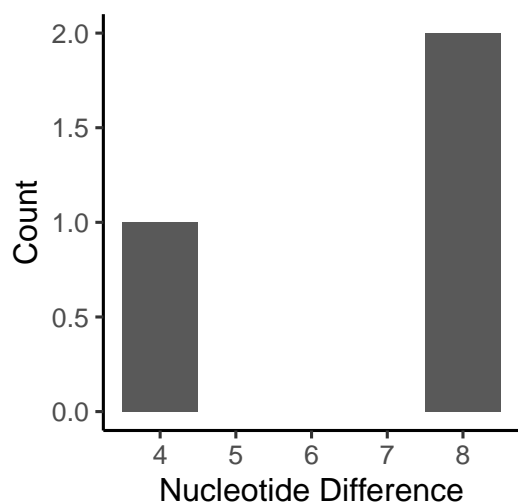
IGHV6-1*01_02

236 sequences assigned
8 (3.4%) exact matches, in which:
8 unique CDR3
4 unique J



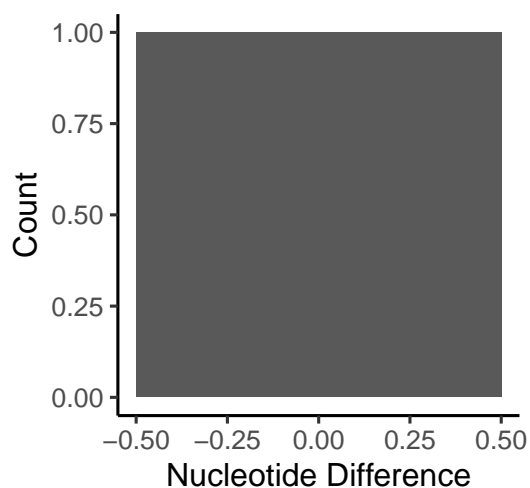
IGHV4/OR15-8*01

3 sequences assigned
No exact matches.



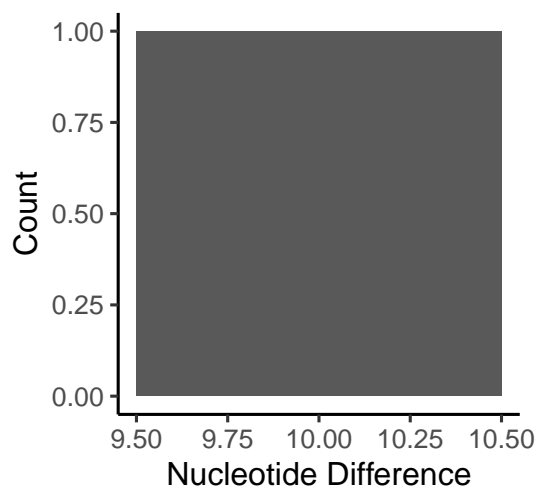
IGHV7-4-1*01

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



IGHV5-51*07

1 sequences assigned
No exact matches.





[illegible]