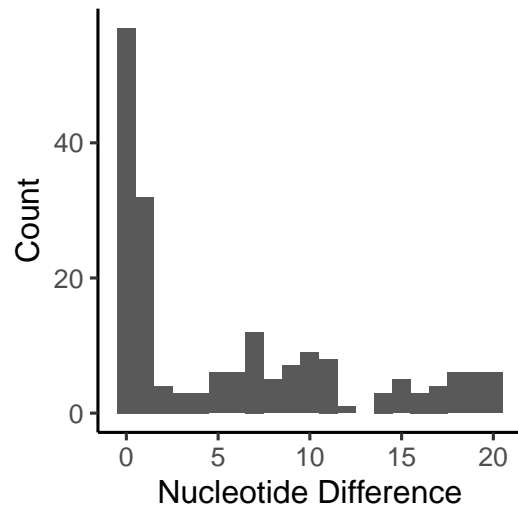


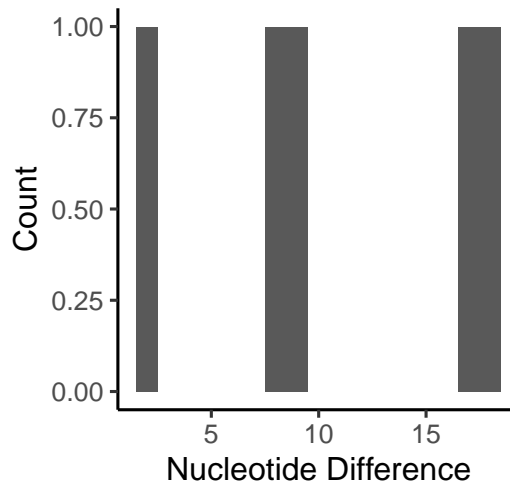
IGHV1-2*04

210 sequences assigned
57 (27.1%) exact matches, in which:
53 unique CDR3
4 unique J



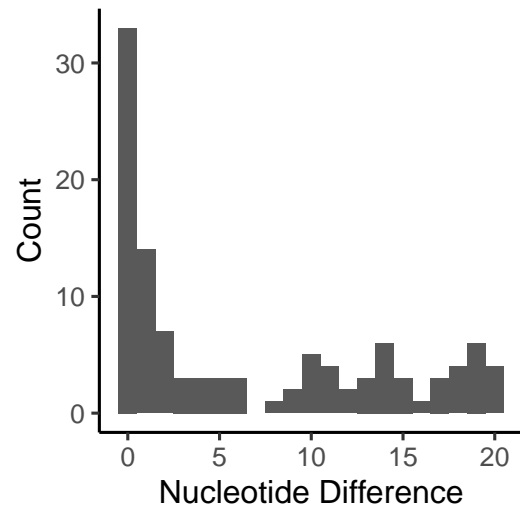
IGHV1-8*01

5 sequences assigned
No exact matches.



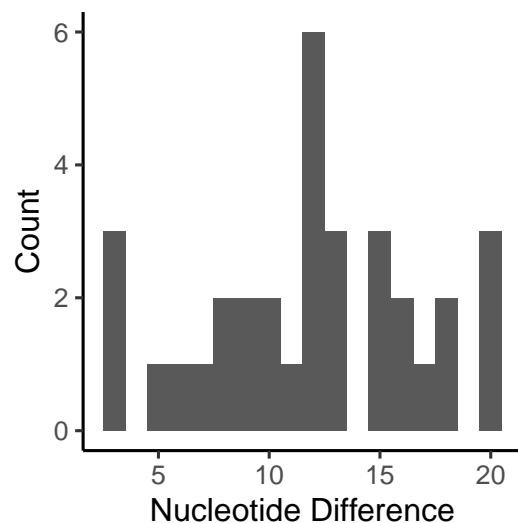
IGHV1-24*01

117 sequences assigned
33 (28.2%) exact matches, in which:
29 unique CDR3
4 unique J



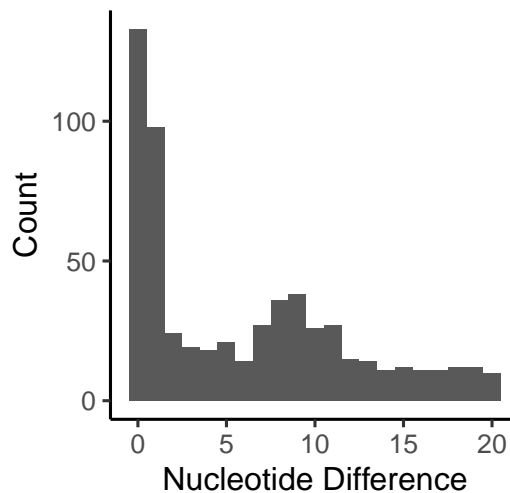
IGHV1-3*04

41 sequences assigned
No exact matches.



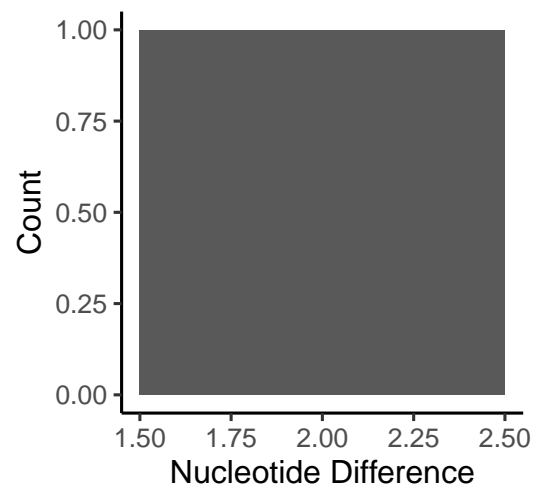
IGHV1-18*01

655 sequences assigned
133 (20.3%) exact matches, in which:
106 unique CDR3
5 unique J



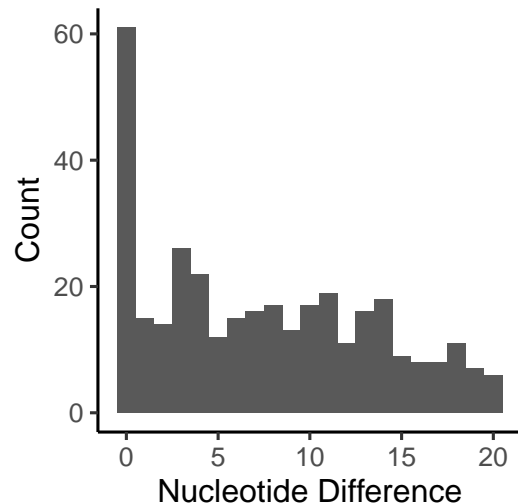
IGHV1-45*02

1 sequences assigned
No exact matches.



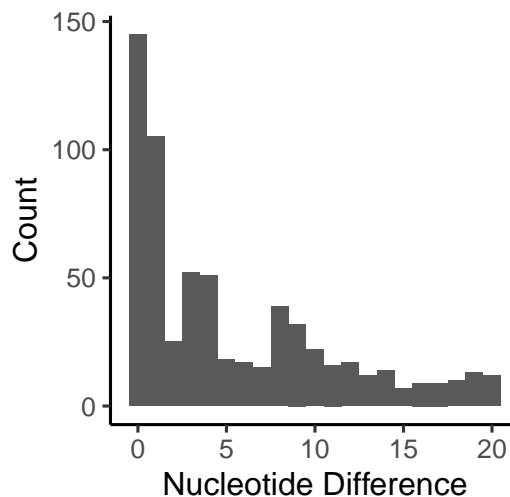
IGHV1-3*01_05

366 sequences assigned
61 (16.7%) exact matches, in which:
59 unique CDR3
5 unique J



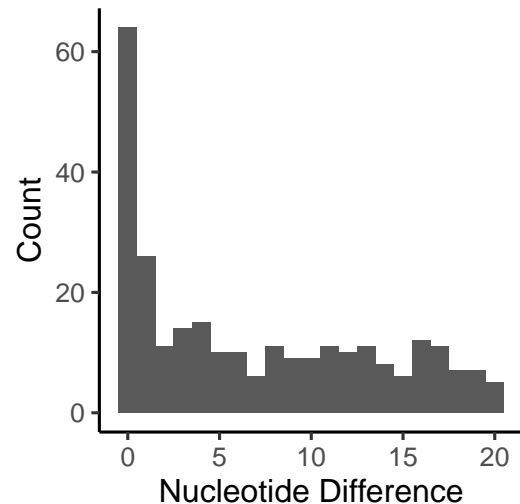
IGHV1-18*04

710 sequences assigned
145 (20.4%) exact matches, in which:
121 unique CDR3
5 unique J



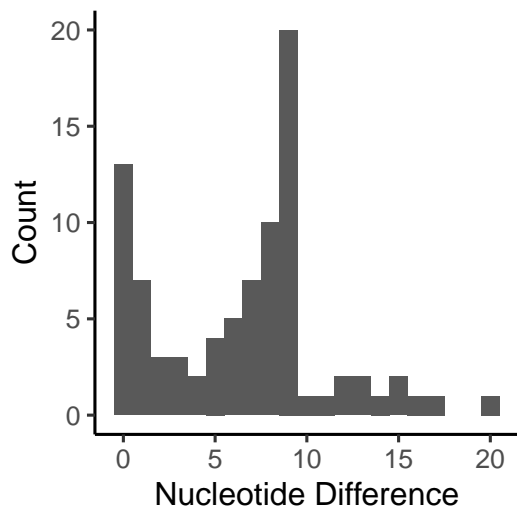
IGHV1-46*01

301 sequences assigned
64 (21.3%) exact matches, in which:
59 unique CDR3
5 unique J



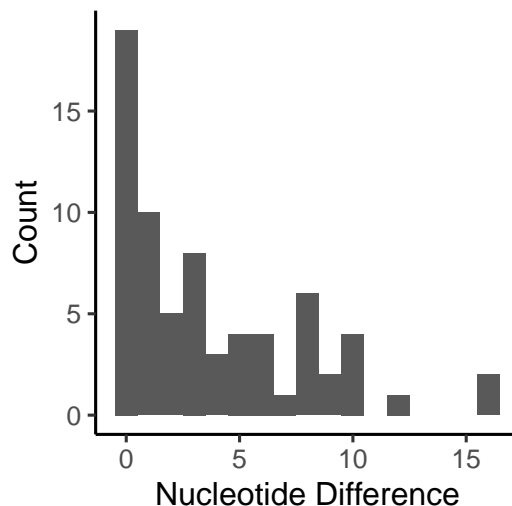
IGHV1-58*01_03

96 sequences assigned
13 (13.5%) exact matches, in which:
12 unique CDR3
3 unique J



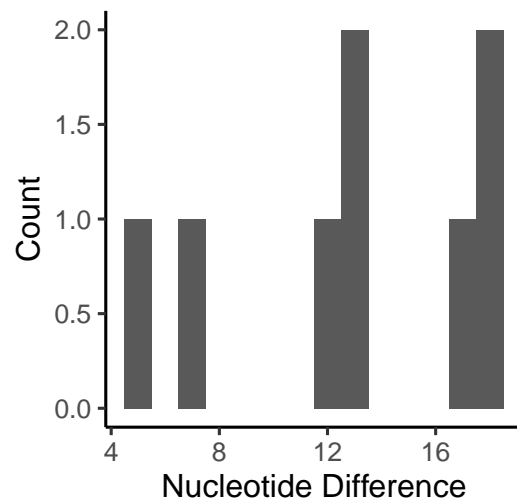
IGHV2-26*01

69 sequences assigned
19 (27.5%) exact matches, in which:
15 unique CDR3
2 unique J



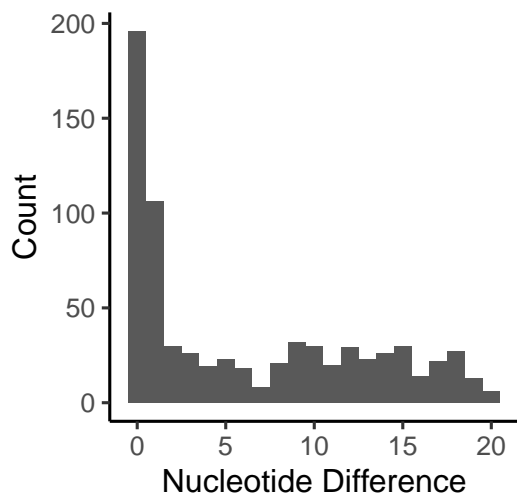
IGHV3-9*01

9 sequences assigned
No exact matches.



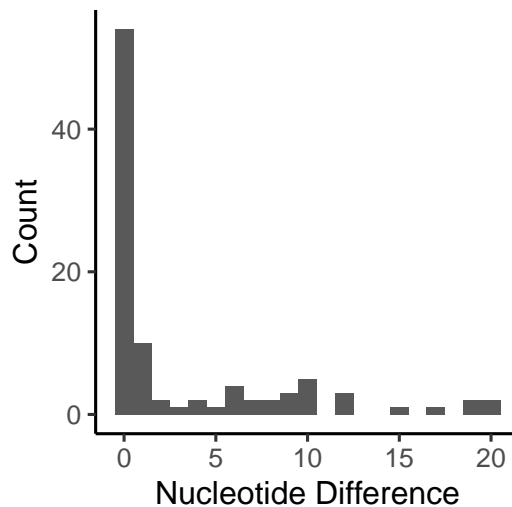
IGHV1-69*01_12_13

825 sequences assigned
196 (23.8%) exact matches, in which:
180 unique CDR3
6 unique J



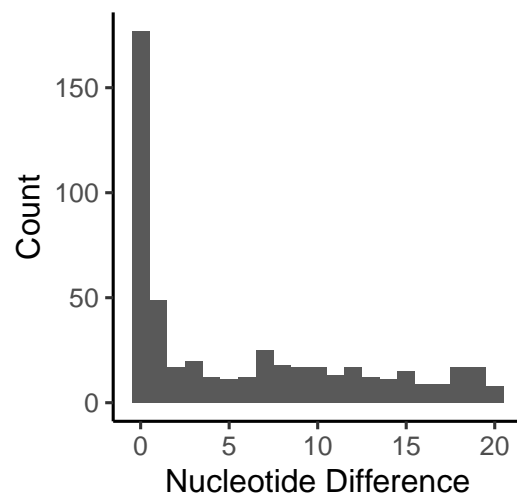
IGHV2-70*01

99 sequences assigned
54 (54.5%) exact matches, in which:
41 unique CDR3
4 unique J



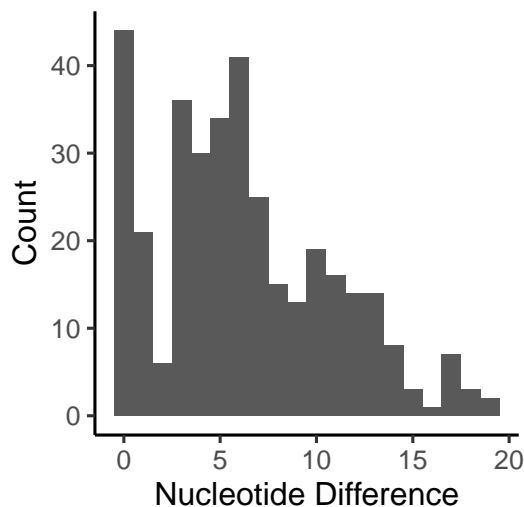
IGHV3-11*06

545 sequences assigned
177 (32.5%) exact matches, in which:
94 unique CDR3
5 unique J



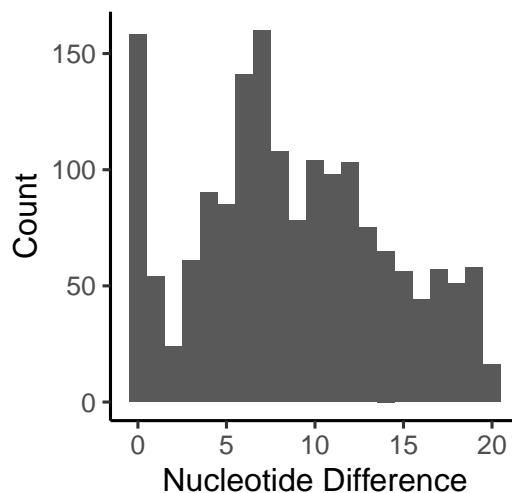
IGHV2-5*02

370 sequences assigned
44 (11.9%) exact matches, in which:
39 unique CDR3
4 unique J



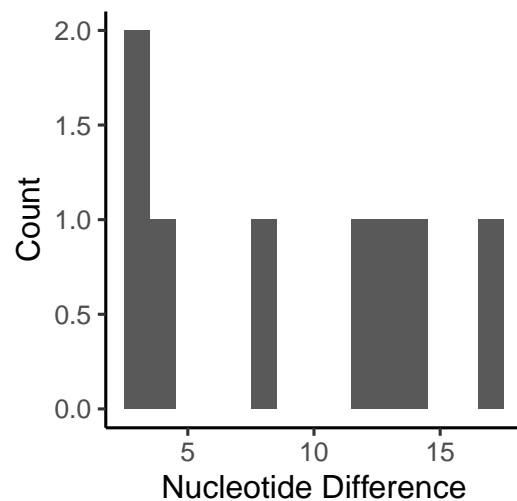
IGHV3-7*03

1857 sequences assigned
158 (8.5%) exact matches, in which:
78 unique CDR3
6 unique J



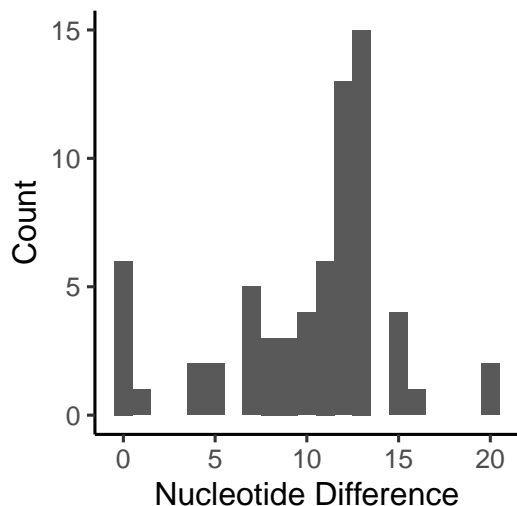
IGHV3-13*01

10 sequences assigned
No exact matches.



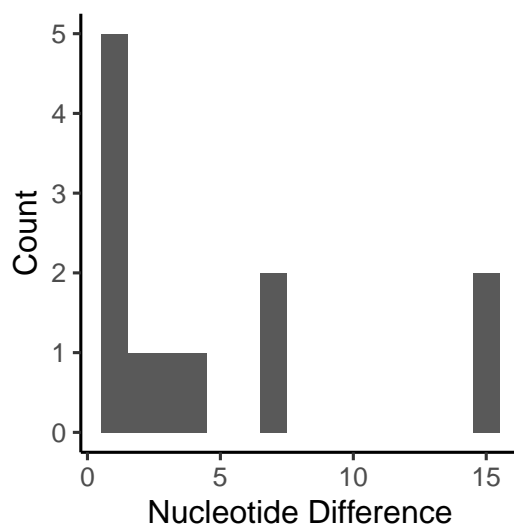
IGHV3-13*05

79 sequences assigned
6 (7.6%) exact matches, in which:
6 unique CDR3
2 unique J



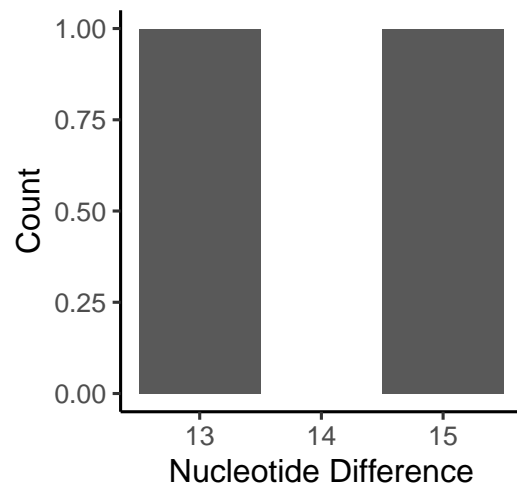
IGHV3-20*03_04

12 sequences assigned
No exact matches.



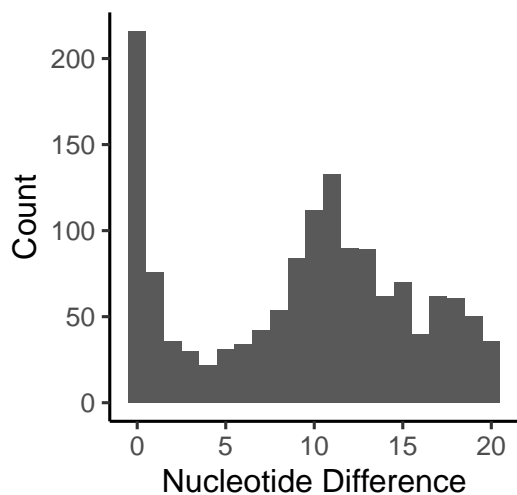
IGHV3-30-3*01

4 sequences assigned
No exact matches.



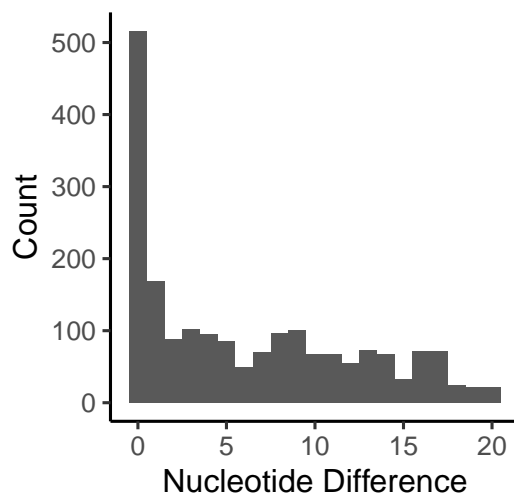
IGHV3-15*01_02

1605 sequences assigned
216 (13.5%) exact matches, in which:
117 unique CDR3
4 unique J



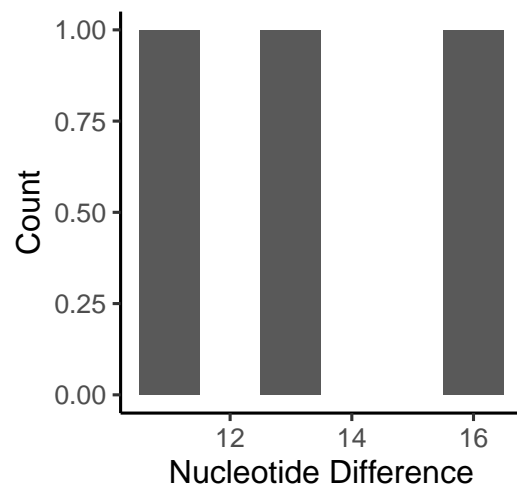
IGHV3-21*01_02

2012 sequences assigned
516 (25.6%) exact matches, in which:
273 unique CDR3
6 unique J



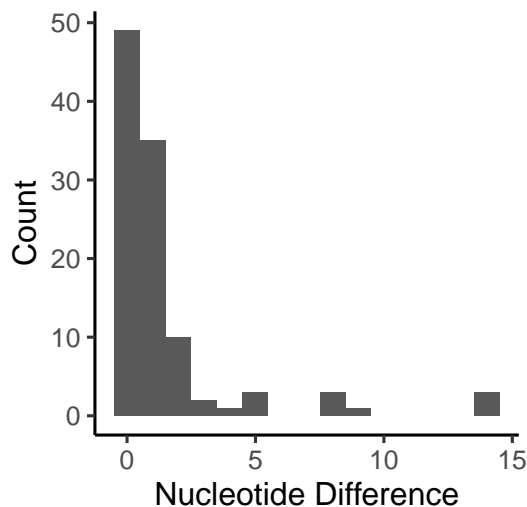
IGHV3-30-3*03

4 sequences assigned
No exact matches.



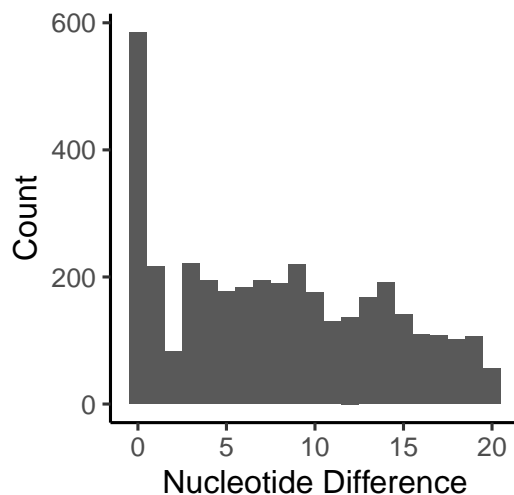
IGHV3-20*01_02

107 sequences assigned
49 (45.8%) exact matches, in which:
21 unique CDR3
5 unique J



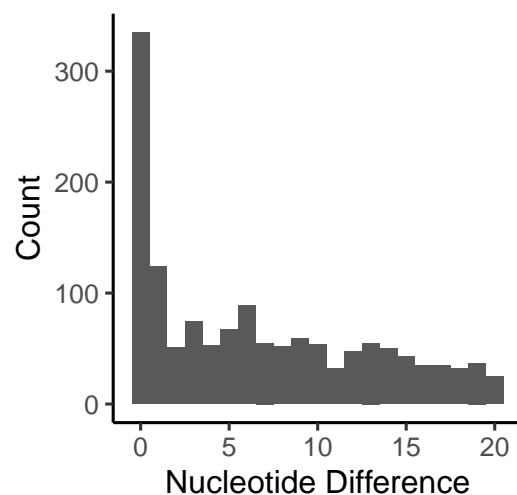
IGHV3-23*01_04

4163 sequences assigned
585 (14.1%) exact matches, in which:
316 unique CDR3
6 unique J



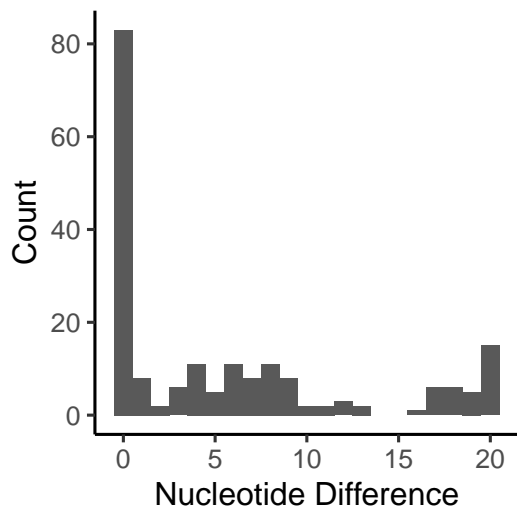
IGHV3-33*01

1560 sequences assigned
335 (21.5%) exact matches, in which:
162 unique CDR3
6 unique J



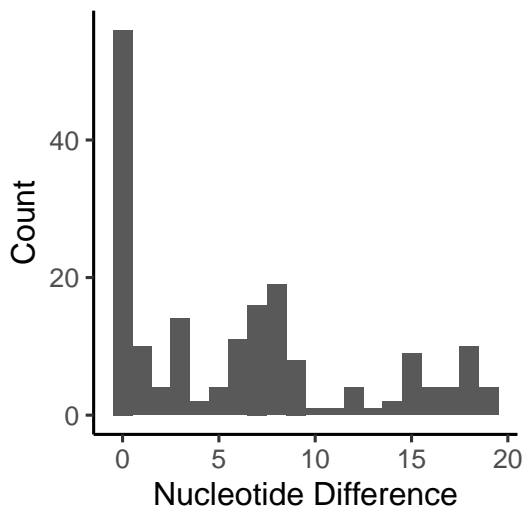
IGHV3-43*01

210 sequences assigned
83 (39.5%) exact matches, in which:
43 unique CDR3
4 unique J



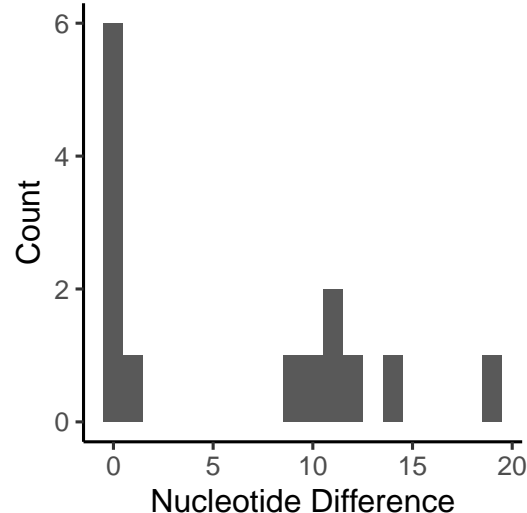
IGHV3-49*03_05

200 sequences assigned
56 (28%) exact matches, in which:
34 unique CDR3
4 unique J



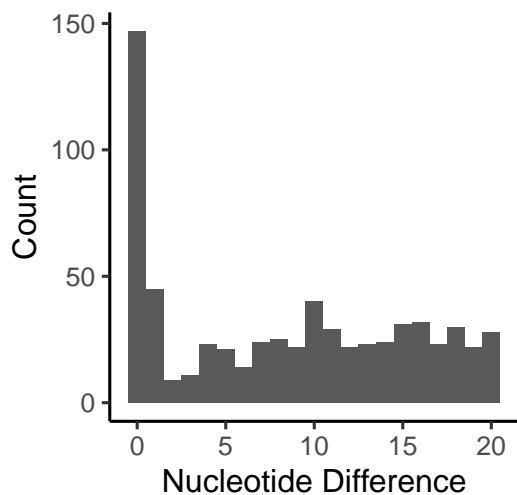
IGHV3-64*02_07

14 sequences assigned
6 (42.9%) exact matches, in which:
2 unique CDR3
2 unique J



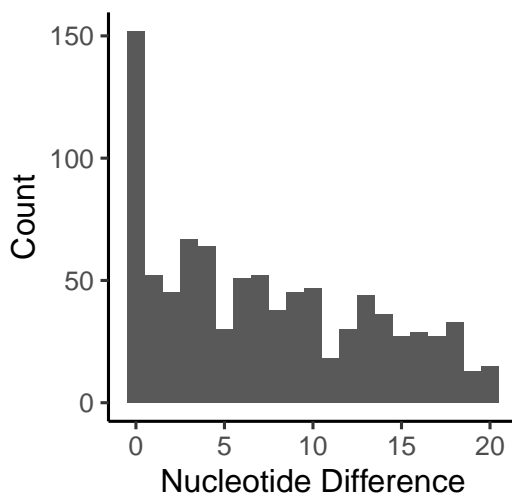
IGHV3-48*02

812 sequences assigned
147 (18.1%) exact matches, in which:
66 unique CDR3
5 unique J



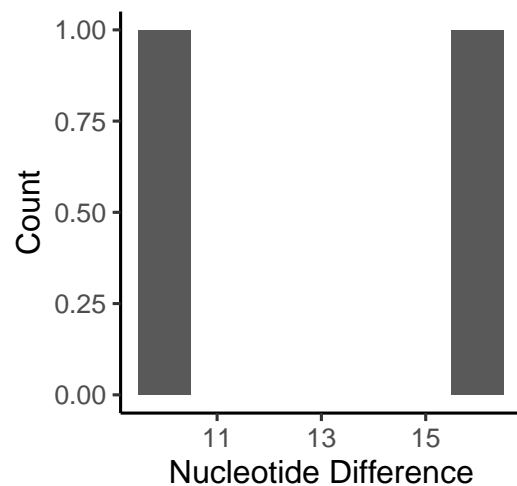
IGHV3-53*01_02

1002 sequences assigned
152 (15.2%) exact matches, in which:
80 unique CDR3
4 unique J



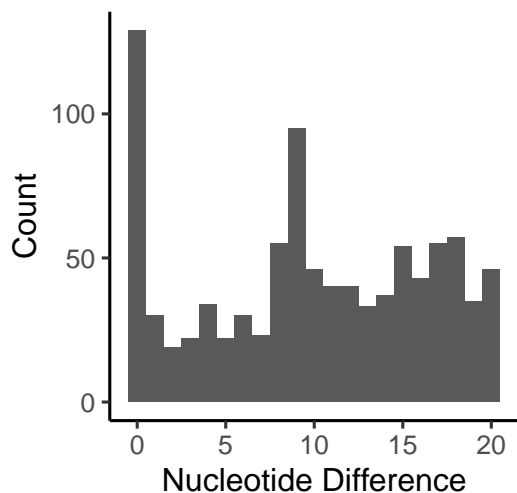
IGHV3-66*04

3 sequences assigned
No exact matches.



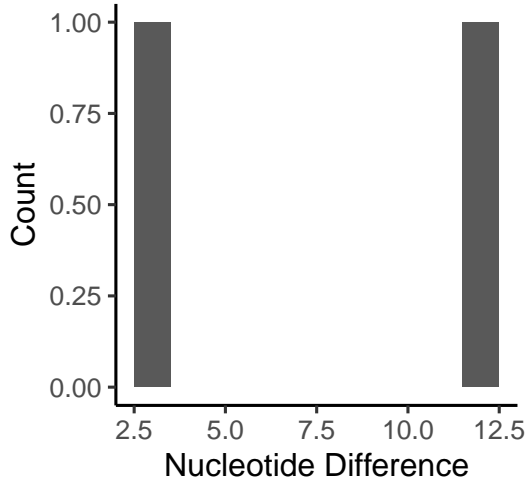
IGHV3-48*04

1196 sequences assigned
129 (10.8%) exact matches, in which:
65 unique CDR3
5 unique J



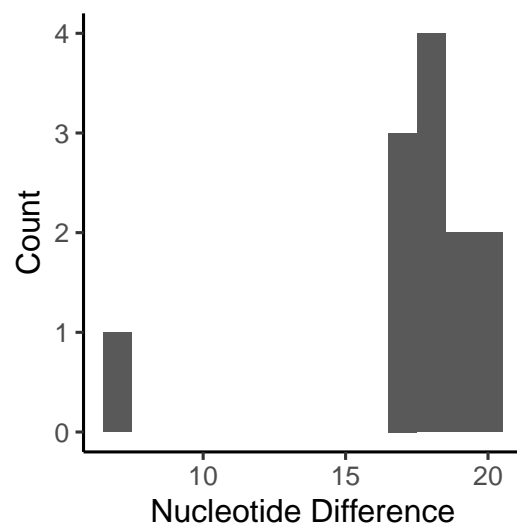
IGHV3-64*04

2 sequences assigned
No exact matches.



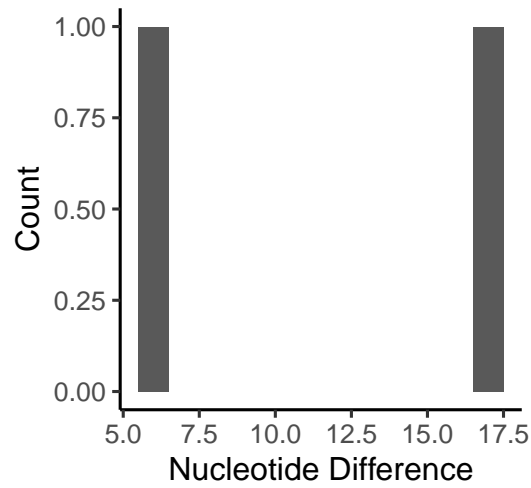
IGHV3-69-1*01

22 sequences assigned
No exact matches.



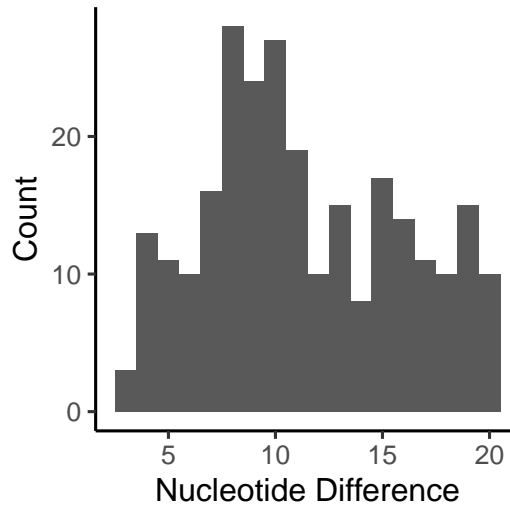
IGHV3-69-1*02

7 sequences assigned
No exact matches.



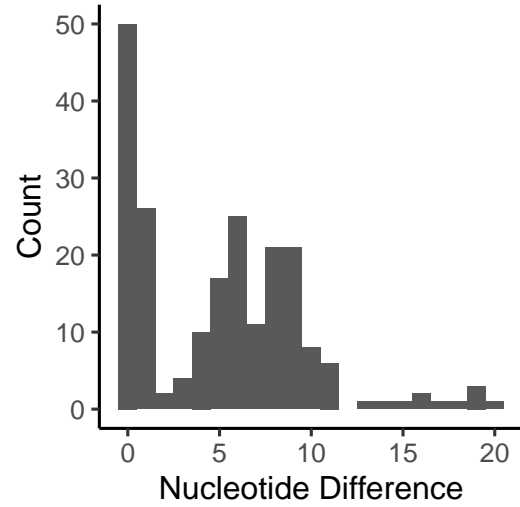
IGHV3-74*03

315 sequences assigned
No exact matches.



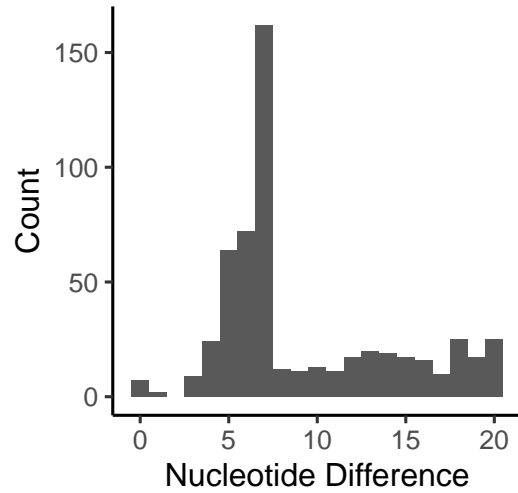
IGHV3-64D*06

224 sequences assigned
50 (22.3%) exact matches, in which:
31 unique CDR3
4 unique J



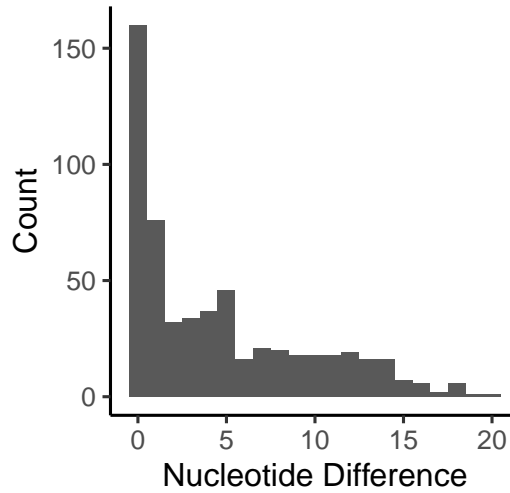
IGHV3-72*01

585 sequences assigned
7 (1.2%) exact matches, in which:
4 unique CDR3
2 unique J



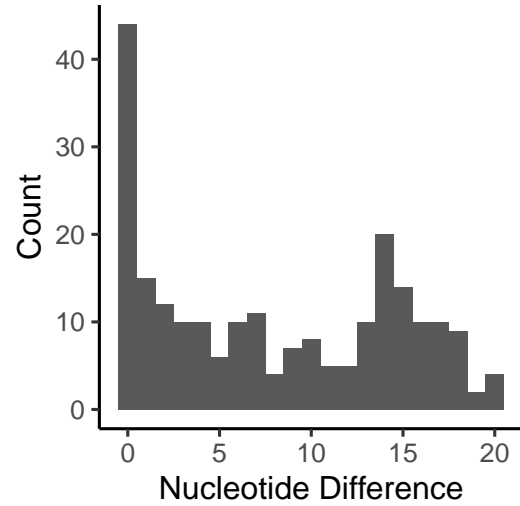
IGHV3-74*01_02

593 sequences assigned
160 (27%) exact matches, in which:
76 unique CDR3
4 unique J



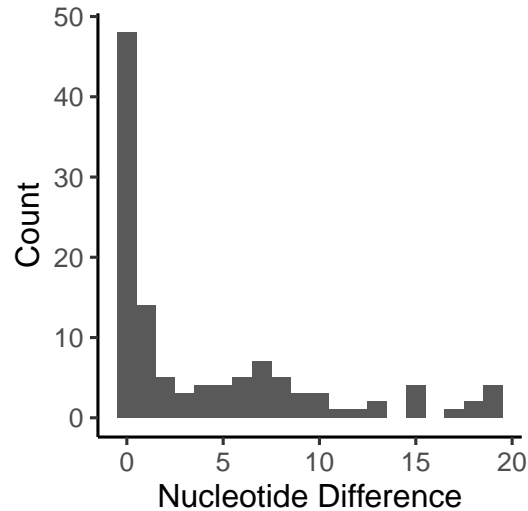
IGHV3-64D*08

239 sequences assigned
44 (18.4%) exact matches, in which:
24 unique CDR3
5 unique J



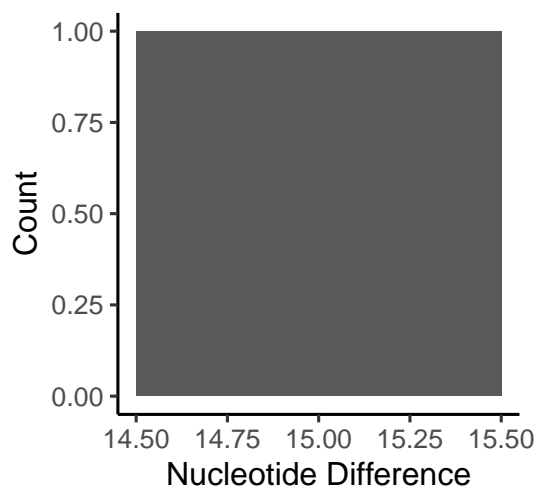
IGHV3-73*01_02

121 sequences assigned
48 (39.7%) exact matches, in which:
27 unique CDR3
4 unique J



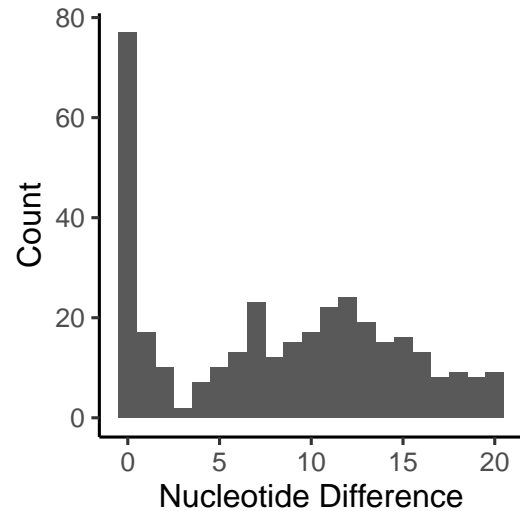
IGHV3-43D*03

1 sequences assigned
No exact matches.



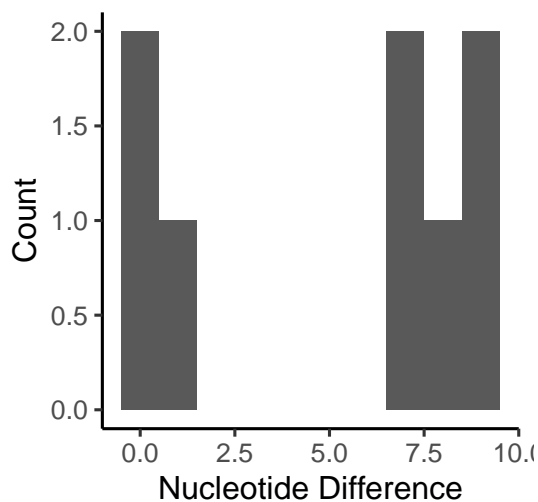
IGHV4-4*02_03

404 sequences assigned
77 (19.1%) exact matches, in which:
49 unique CDR3
4 unique J



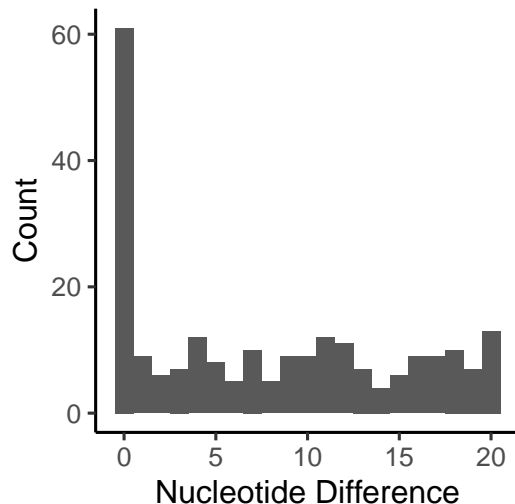
IGHV4-28*01_07

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



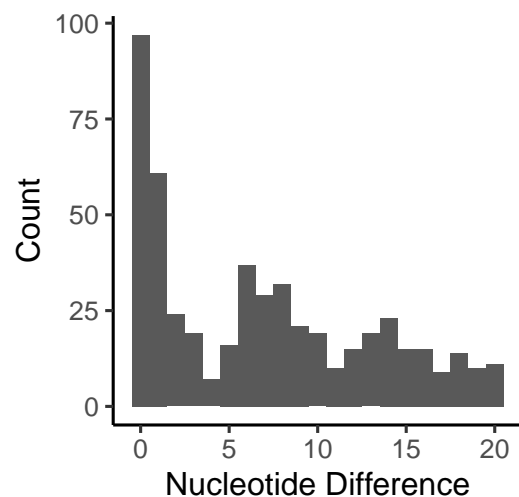
IGHV4-31*02

352 sequences assigned
61 (17.3%) exact matches, in which:
44 unique CDR3
4 unique J



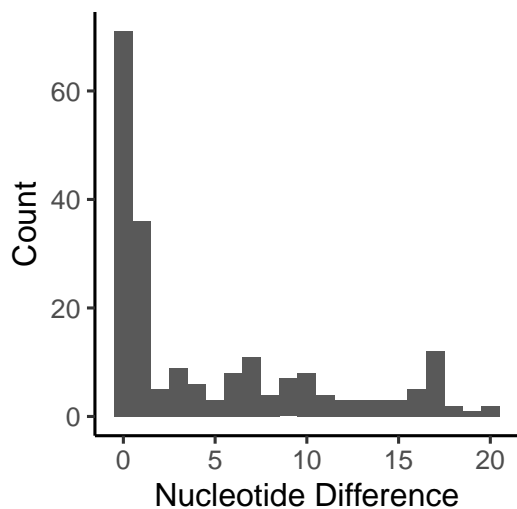
IGHV4-39*07

588 sequences assigned
97 (16.5%) exact matches, in which:
70 unique CDR3
5 unique J



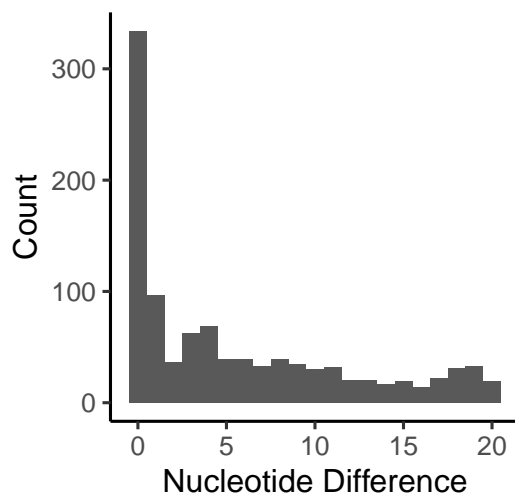
IGHV4-30-2*01

213 sequences assigned
71 (33.3%) exact matches, in which:
45 unique CDR3
5 unique J



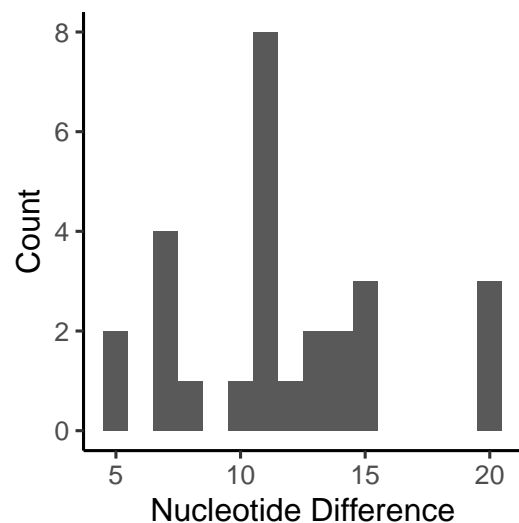
IGHV4-34*01_02

1248 sequences assigned
334 (26.8%) exact matches, in which:
188 unique CDR3
6 unique J



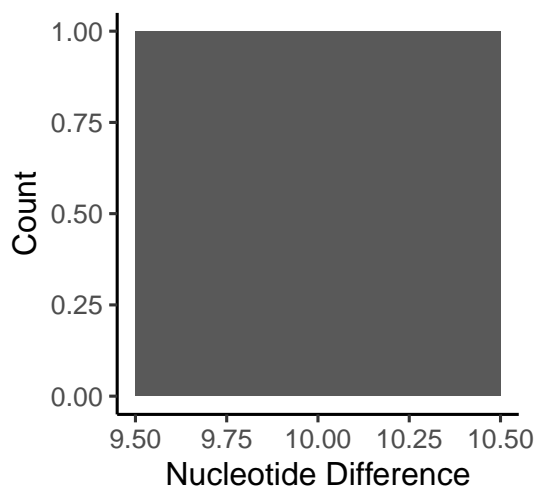
IGHV4-59*02

51 sequences assigned
No exact matches.



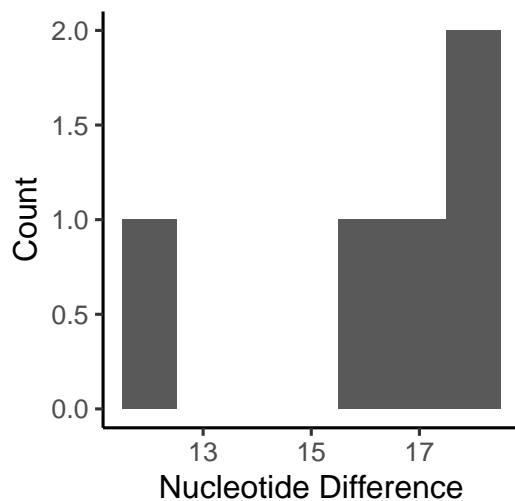
IGHV4-30-4*08

2 sequences assigned
No exact matches.



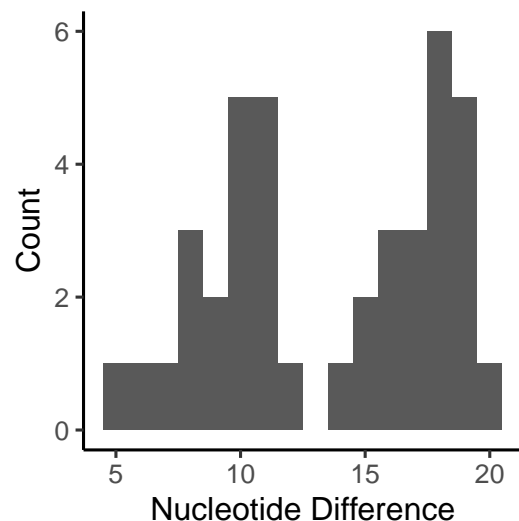
IGHV4-38-2*02

5 sequences assigned
No exact matches.



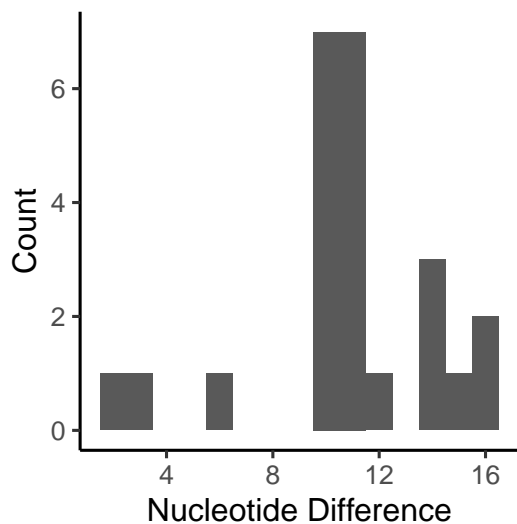
IGHV4-59*11

61 sequences assigned
No exact matches.



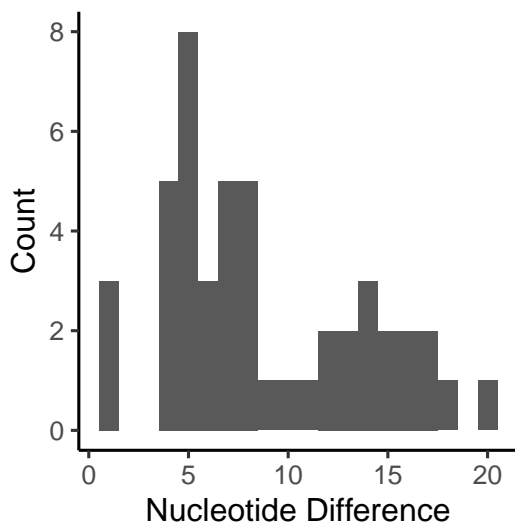
IGHV4-59*12

29 sequences assigned
No exact matches.



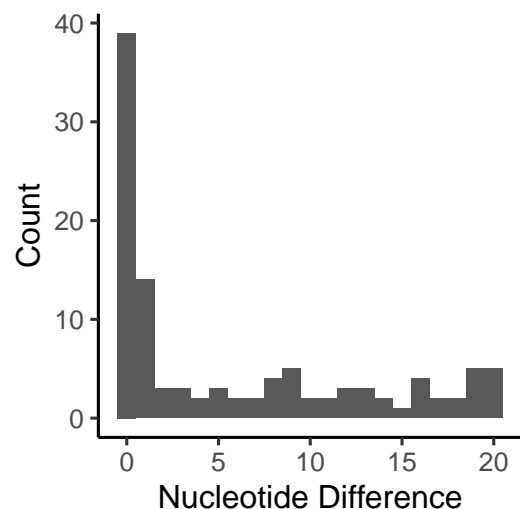
IGHV4-61*08

71 sequences assigned
No exact matches.



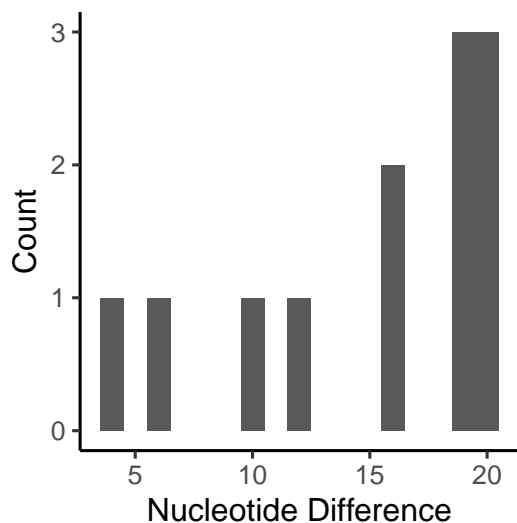
IGHV5-10-1*01_03

122 sequences assigned
39 (32%) exact matches, in which:
38 unique CDR3
5 unique J



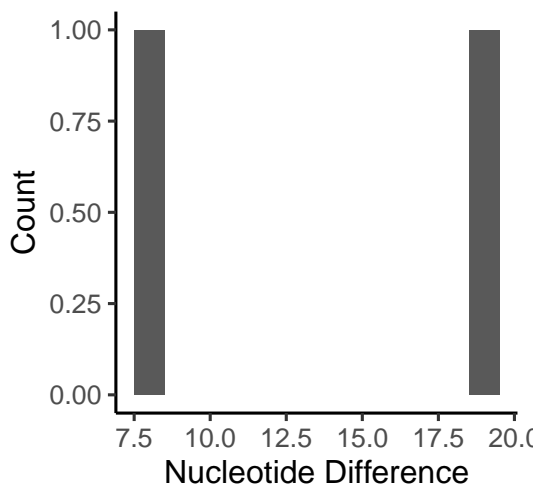
IGHV4-59*13

17 sequences assigned
No exact matches.



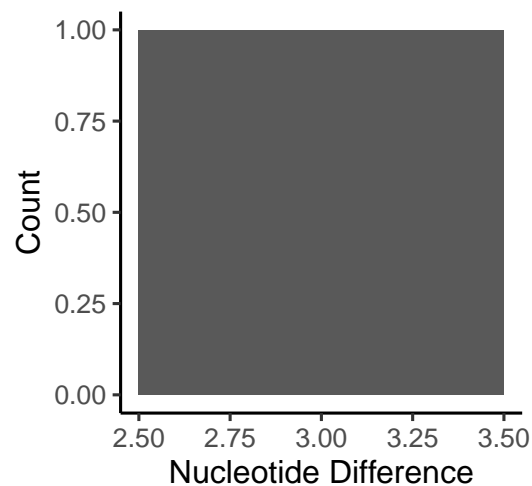
IGHV4/OR15-8*01

5 sequences assigned
No exact matches.



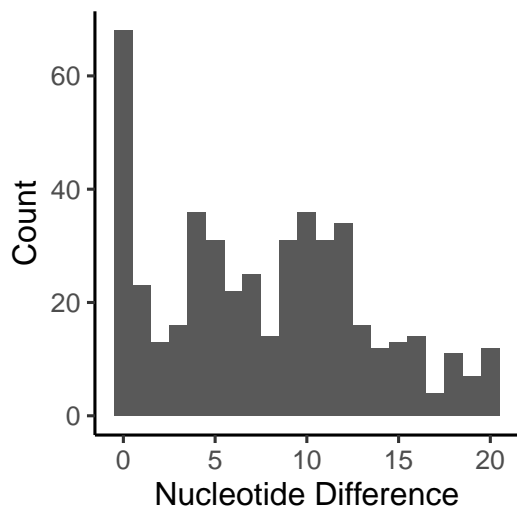
IGHV5-51*07

1 sequences assigned
No exact matches.



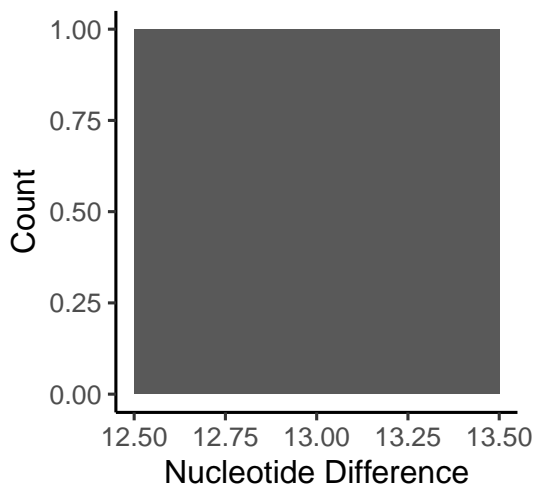
IGHV4-61*01

522 sequences assigned
68 (13%) exact matches, in which:
47 unique CDR3
5 unique J



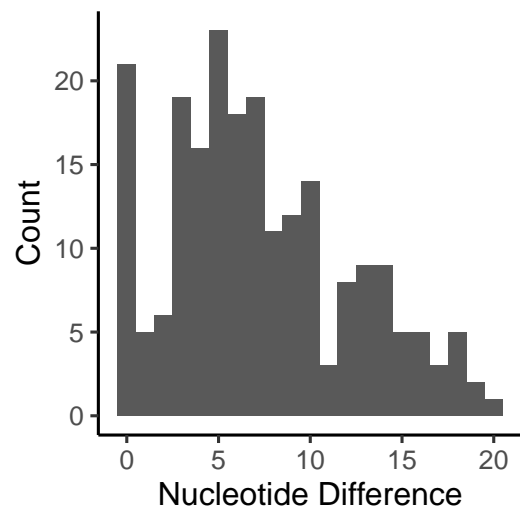
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



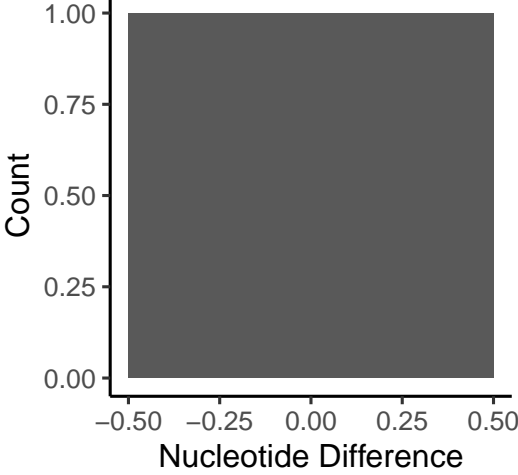
IGHV6-1*01_02

227 sequences assigned
21 (9.3%) exact matches, in which:
15 unique CDR3
5 unique J



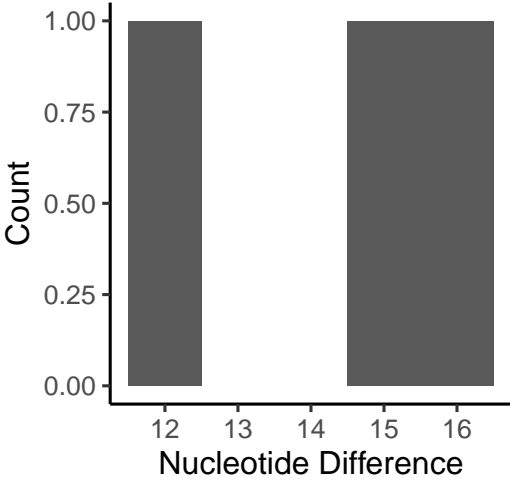
IGHV7-4-1*01

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



IGHV7-4-1*02

3 sequences assigned
No exact matches.





Warning – no inferred sequences found.