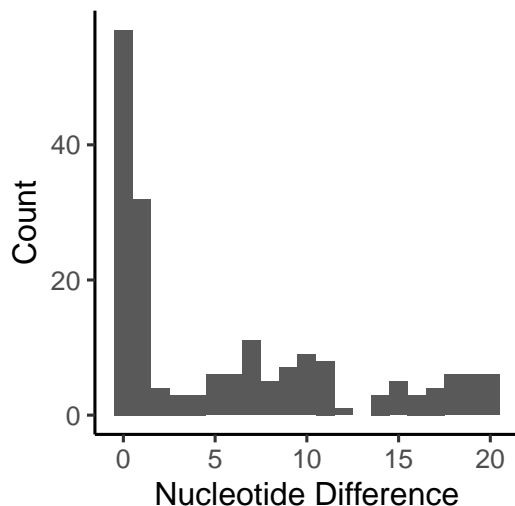


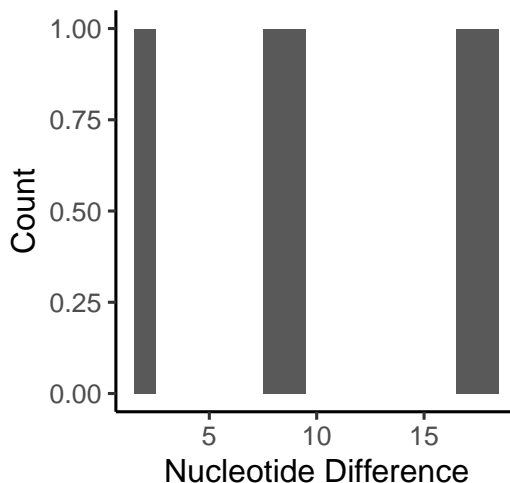
IGHV1-2*04

209 sequences assigned
57 (27.3%) exact matches, in which:
53 unique CDR3
4 unique J



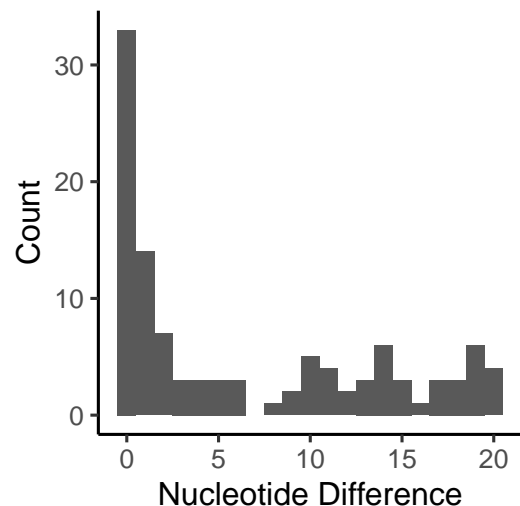
IGHV1-8*01

5 sequences assigned
No exact matches.



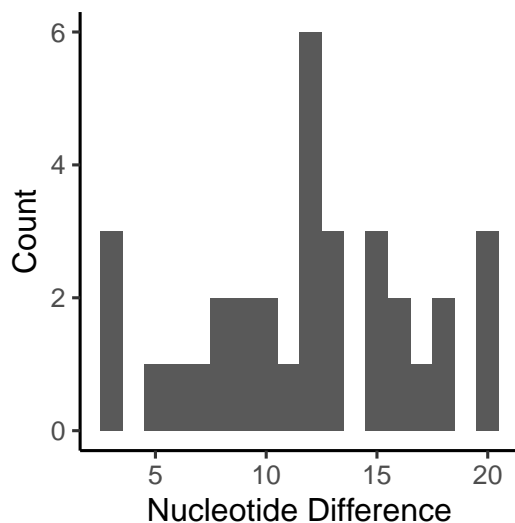
IGHV1-24*01

116 sequences assigned
33 (28.4%) exact matches, in which:
29 unique CDR3
4 unique J



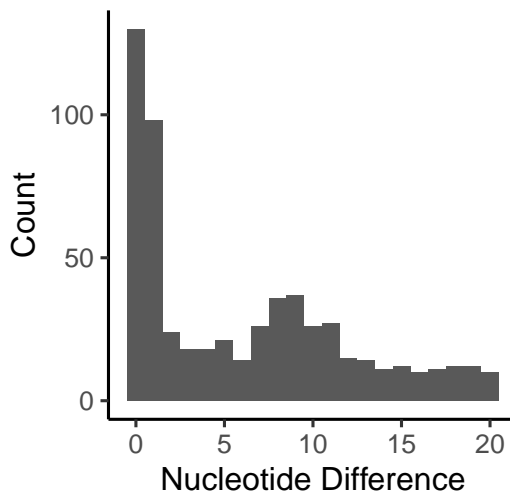
IGHV1-3*04

41 sequences assigned
No exact matches.



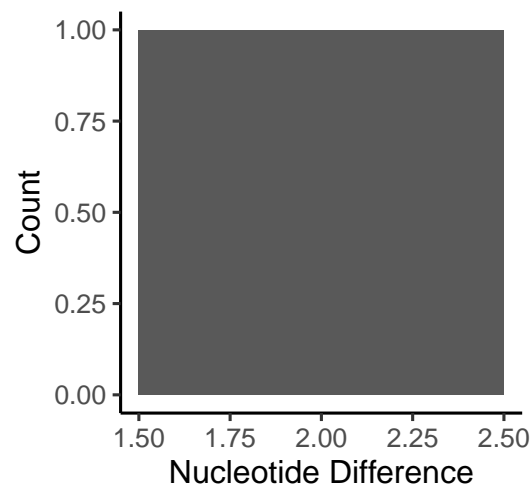
IGHV1-18*01

647 sequences assigned
130 (20.1%) exact matches, in which:
105 unique CDR3
5 unique J



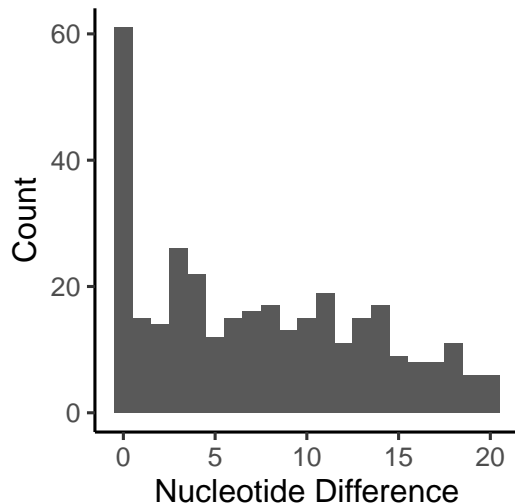
IGHV1-45*02

1 sequences assigned
No exact matches.



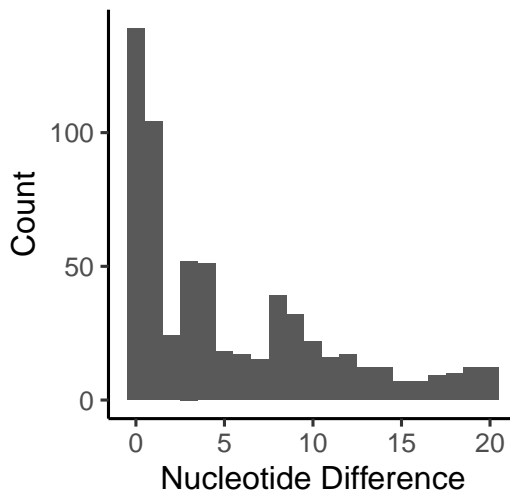
IGHV1-3*01_05

361 sequences assigned
61 (16.9%) exact matches, in which:
59 unique CDR3
5 unique J



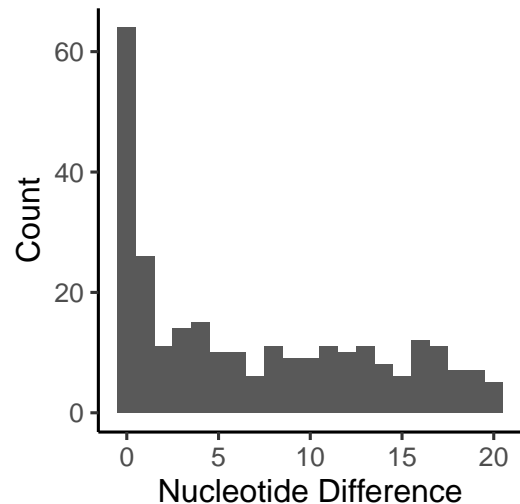
IGHV1-18*04

696 sequences assigned
139 (20%) exact matches, in which:
120 unique CDR3
5 unique J



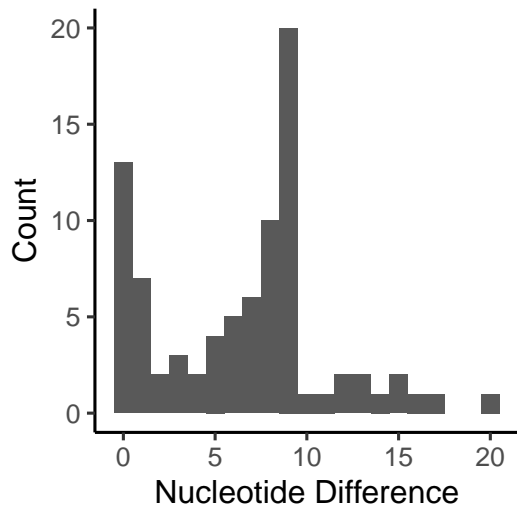
IGHV1-46*01

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



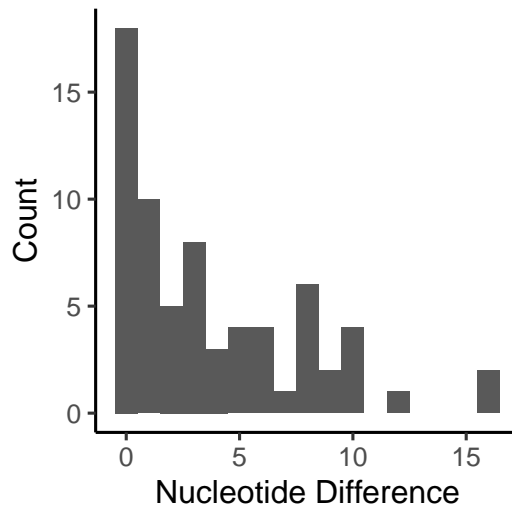
IGHV1-58*01_03

94 sequences assigned
13 (13.8%) exact matches, in which:
12 unique CDR3
3 unique J



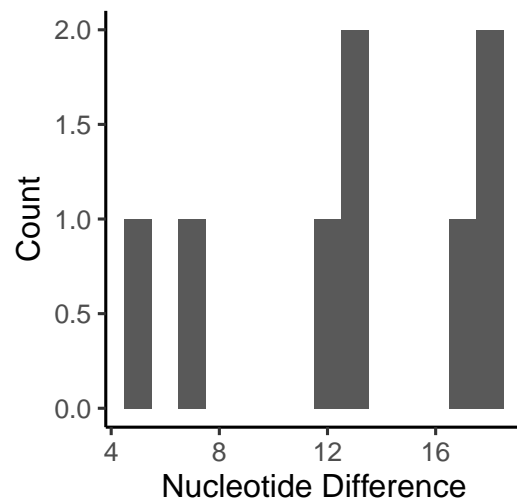
IGHV2-26*01

68 sequences assigned
18 (26.5%) exact matches, in which:
15 unique CDR3
2 unique J



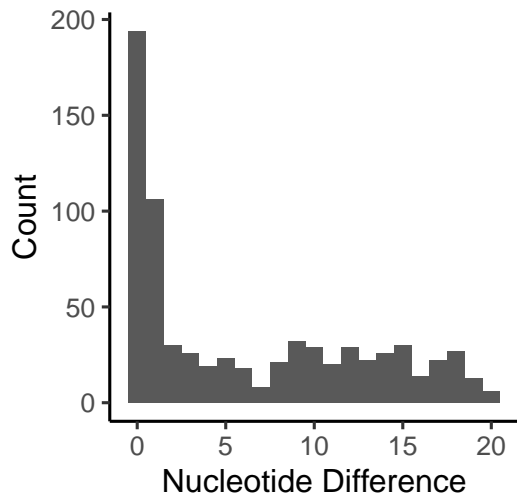
IGHV3-9*01

9 sequences assigned
No exact matches.



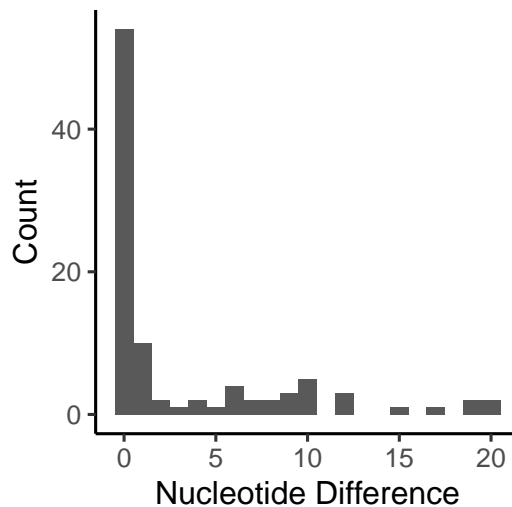
IGHV1-69*01_12_13

821 sequences assigned
194 (23.6%) exact matches, in which:
179 unique CDR3
6 unique J



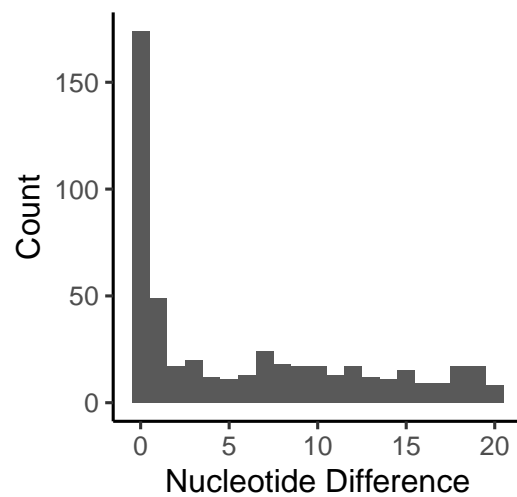
IGHV2-70*01

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



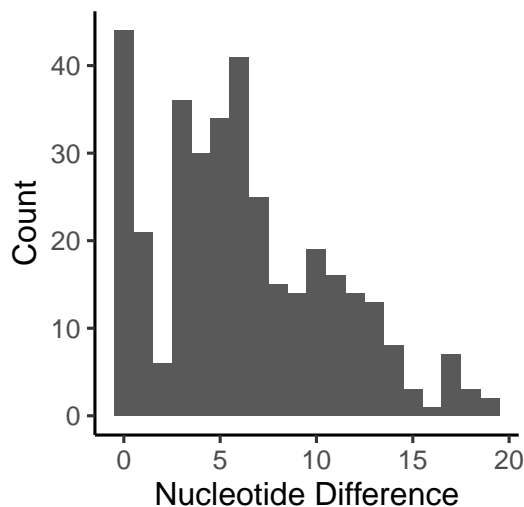
IGHV3-11*06

541 sequences assigned
174 (32.2%) exact matches, in which:
94 unique CDR3
5 unique J



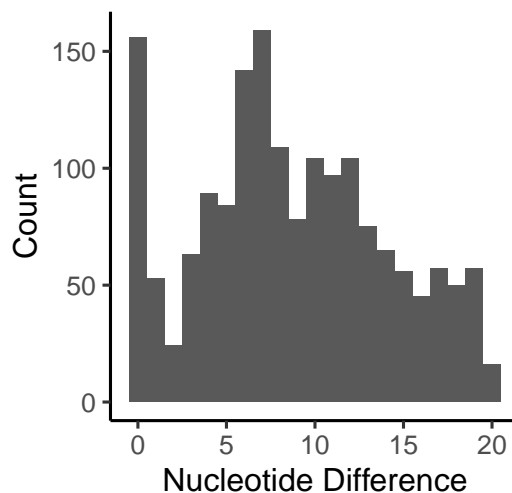
IGHV2-5*02

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



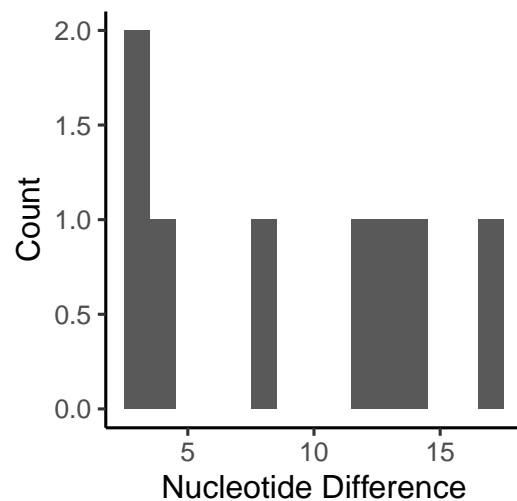
IGHV3-7*03

1854 sequences assigned
156 (8.4%) exact matches, in which:
78 unique CDR3
6 unique J



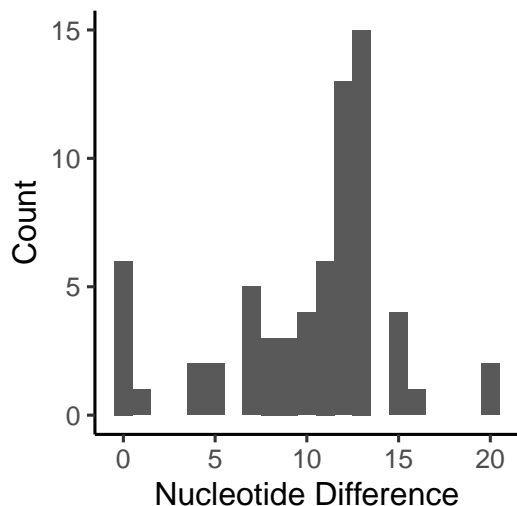
IGHV3-13*01

10 sequences assigned
No exact matches.



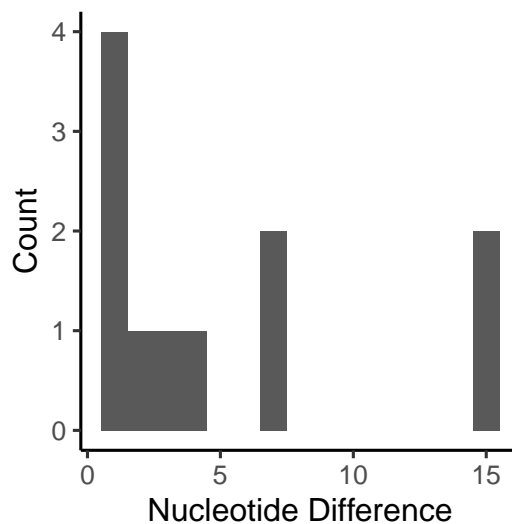
IGHV3-13*05

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



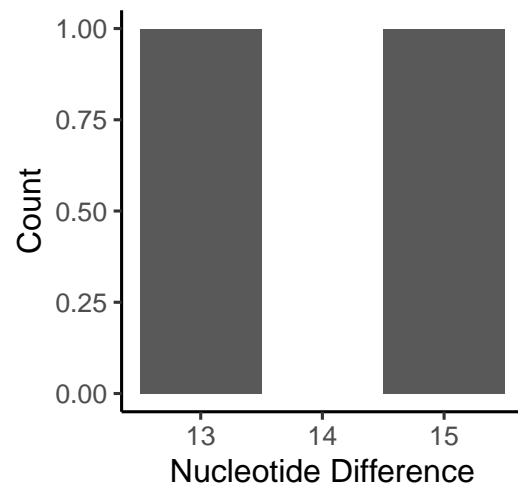
IGHV3-20*03_04

11 sequences assigned
No exact matches.



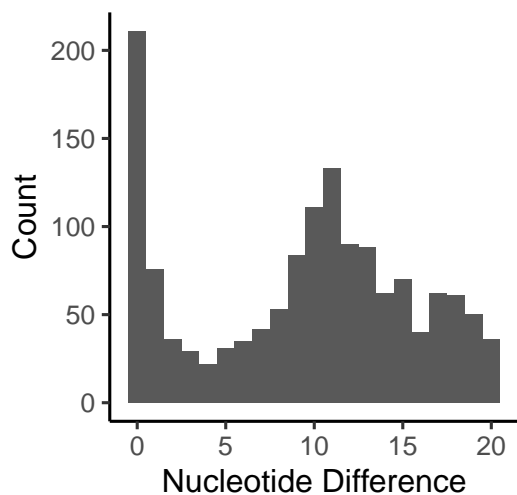
IGHV3-30-3*01

4 sequences assigned
No exact matches.



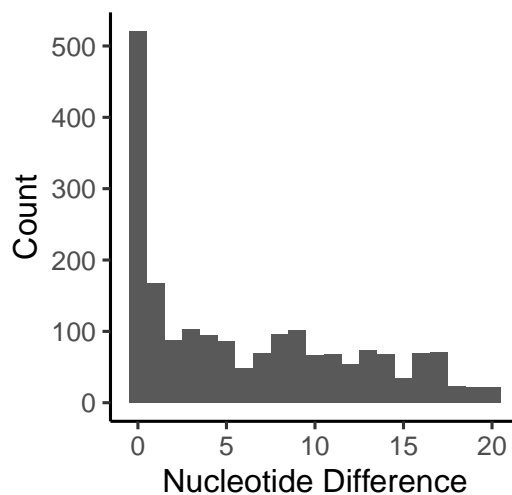
IGHV3-15*01_02

1597 sequences assigned
211 (13.2%) exact matches, in which:
116 unique CDR3
4 unique J



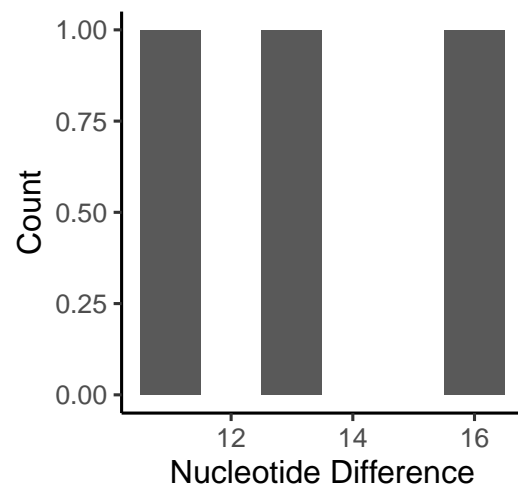
IGHV3-21*01_02

2018 sequences assigned
521 (25.8%) exact matches, in which:
277 unique CDR3
6 unique J



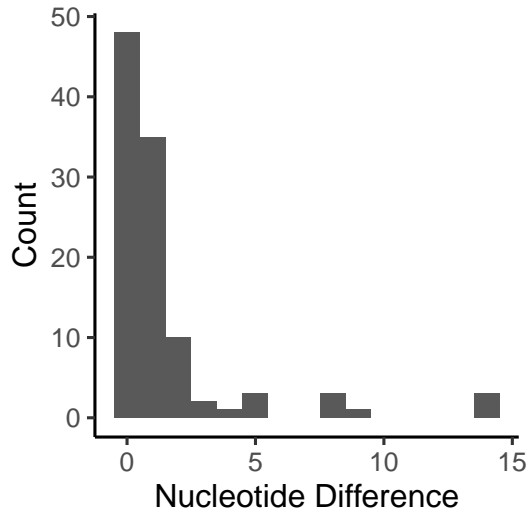
IGHV3-30-3*03

4 sequences assigned
No exact matches.



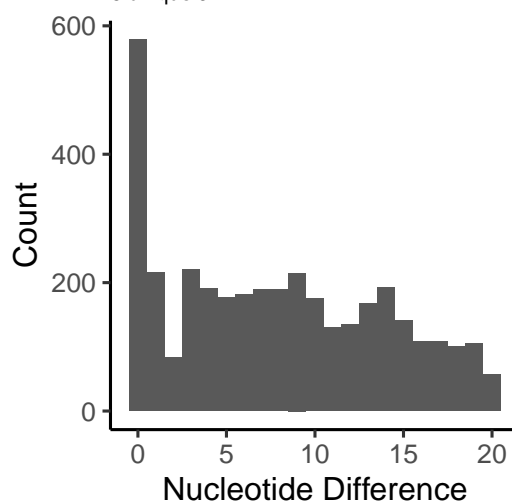
IGHV3-20*01_02

106 sequences assigned
48 (45.3%) exact matches, in which:
21 unique CDR3
5 unique J



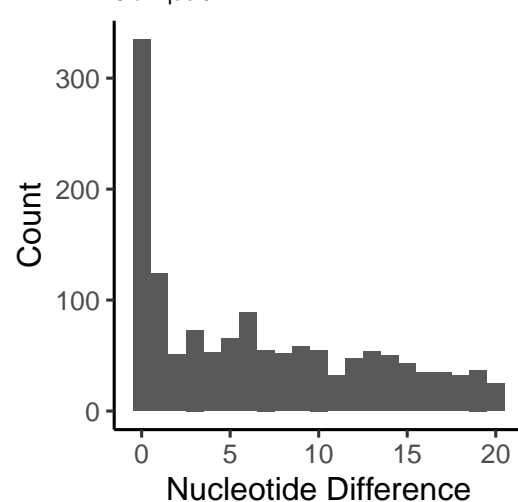
IGHV3-23*01_04

4132 sequences assigned
579 (14%) exact matches, in which:
315 unique CDR3
6 unique J



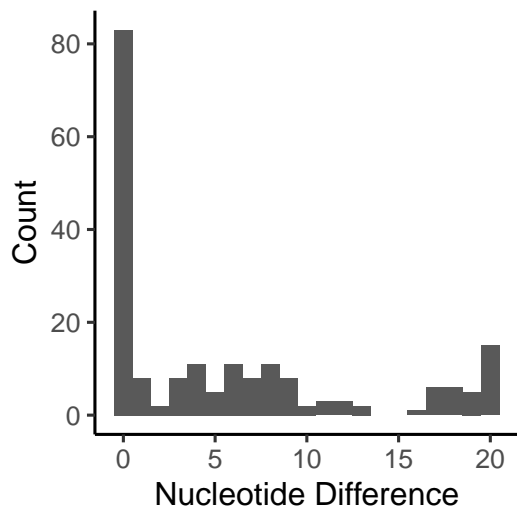
IGHV3-33*01

1556 sequences assigned
335 (21.5%) exact matches, in which:
162 unique CDR3
6 unique J



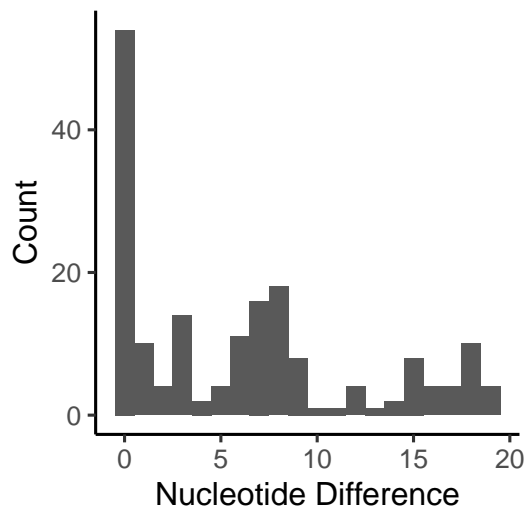
IGHV3-43*01

213 sequences assigned
83 (39%) exact matches, in which:
43 unique CDR3
4 unique J



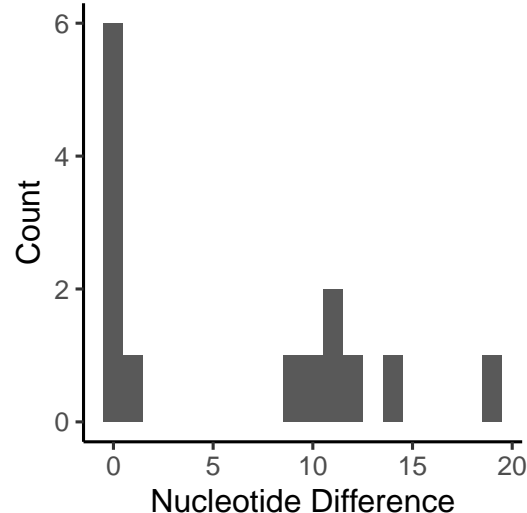
IGHV3-49*03_05

196 sequences assigned
54 (27.6%) exact matches, in which:
32 unique CDR3
4 unique J



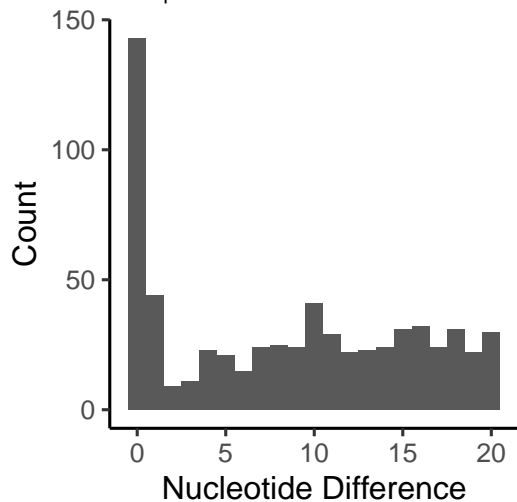
IGHV3-64*02_07

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



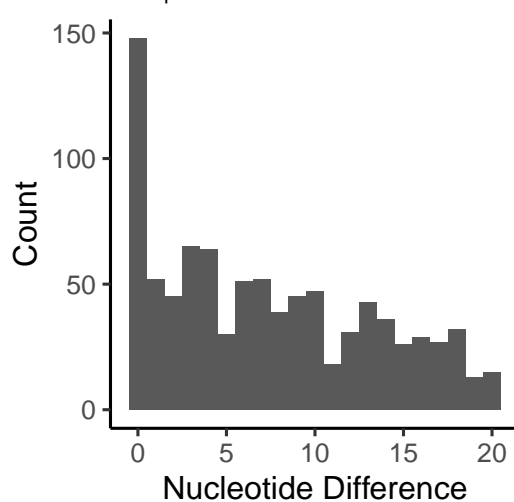
IGHV3-48*02

817 sequences assigned
143 (17.5%) exact matches, in which:
65 unique CDR3
5 unique J



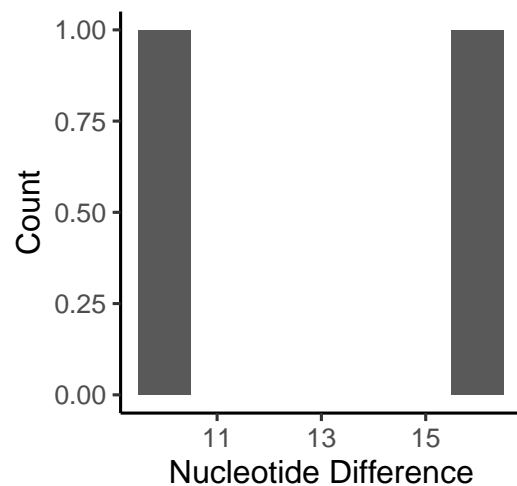
IGHV3-53*01_02

995 sequences assigned
148 (14.9%) exact matches, in which:
77 unique CDR3
4 unique J



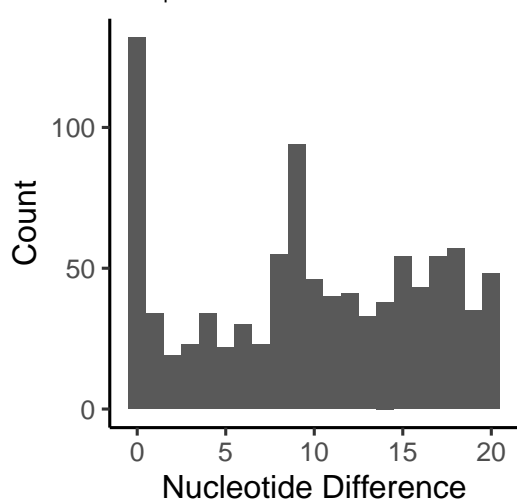
IGHV3-66*04

3 sequences assigned
No exact matches.



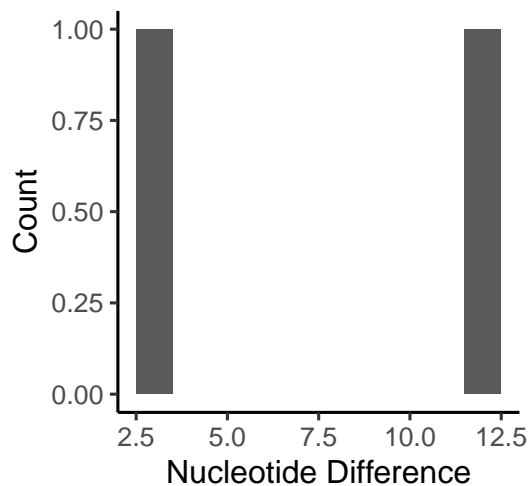
IGHV3-48*04

1205 sequences assigned
132 (11%) exact matches, in which:
66 unique CDR3
5 unique J



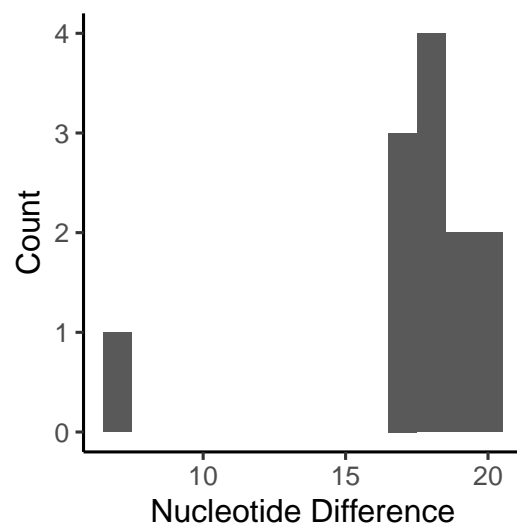
IGHV3-64*04

2 sequences assigned
No exact matches.



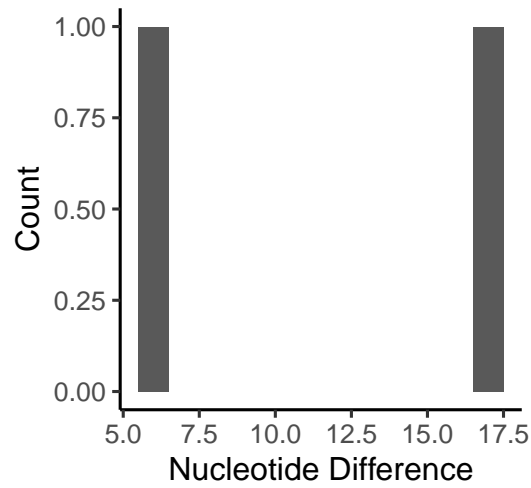
IGHV3-69-1*01

22 sequences assigned
No exact matches.



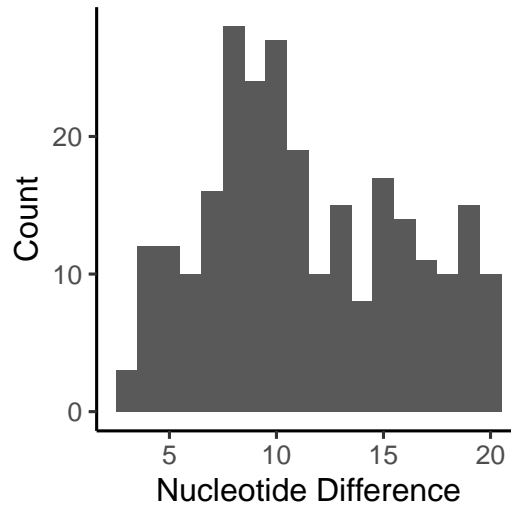
IGHV3-69-1*02

6 sequences assigned
No exact matches.



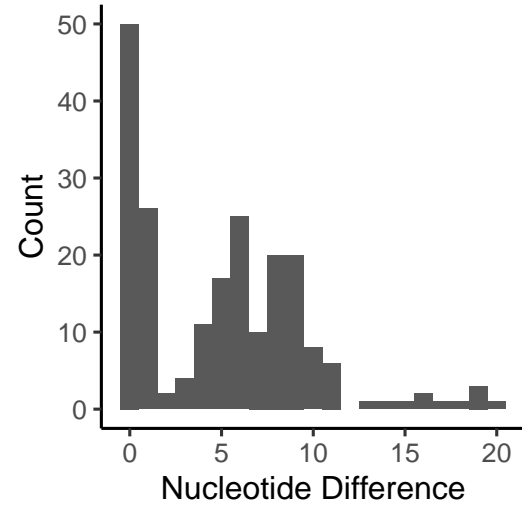
IGHV3-74*03

314 sequences assigned
No exact matches.



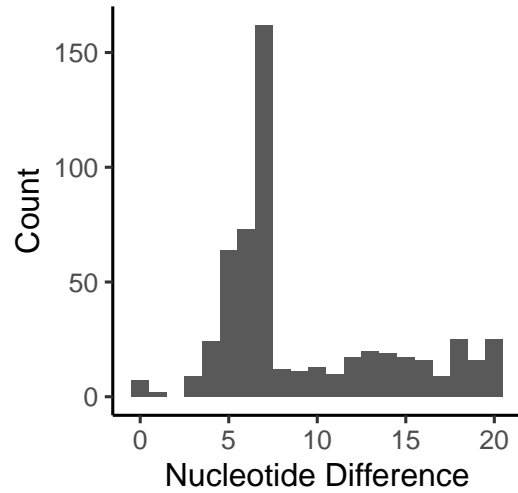
IGHV3-64D*06

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



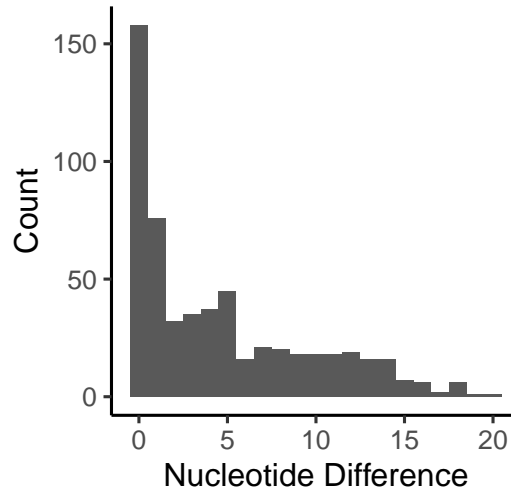
IGHV3-72*01

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



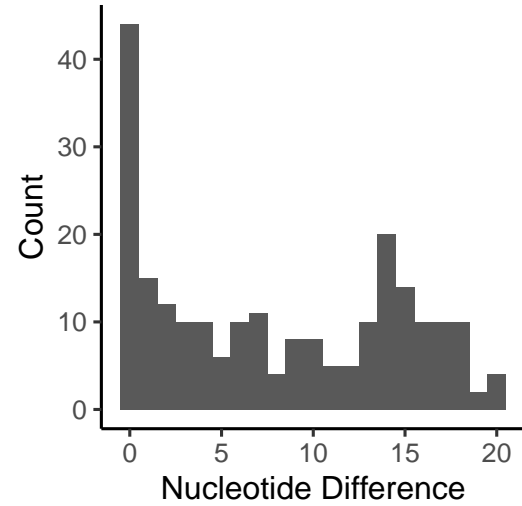
IGHV3-74*01_02

591 sequences assigned
158 (26.7%) exact matches, in which:
76 unique CDR3
4 unique J



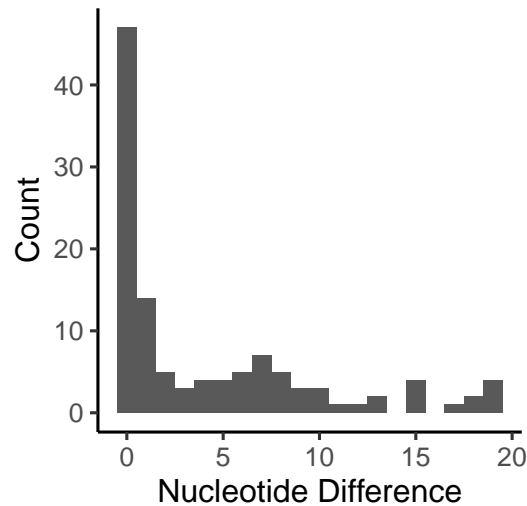
IGHV3-64D*08

241 sequences assigned
44 (18.3%) exact matches, in which:
24 unique CDR3
5 unique J



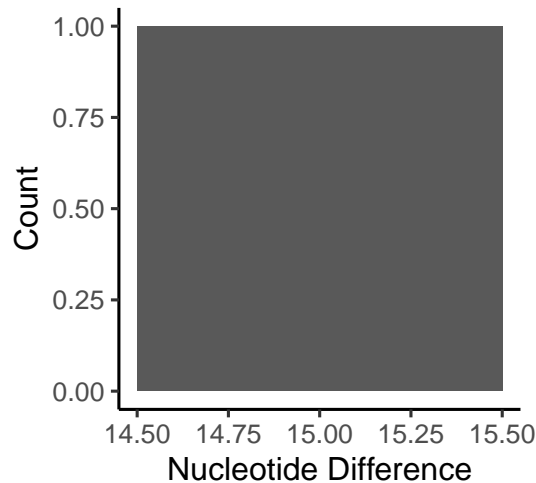
IGHV3-73*01_02

120 sequences assigned
47 (39.2%) exact matches, in which:
27 unique CDR3
4 unique J



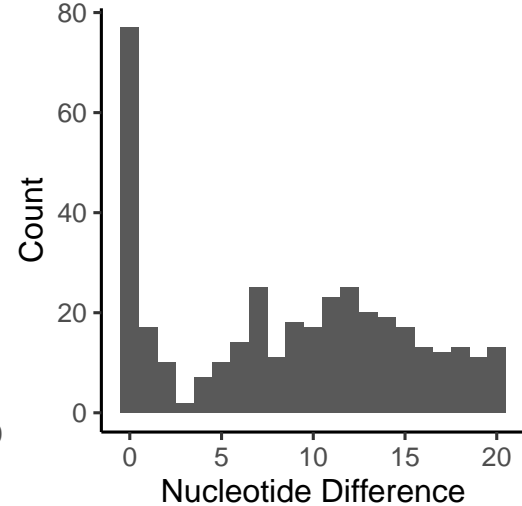
IGHV3-43D*03

1 sequences assigned
No exact matches.



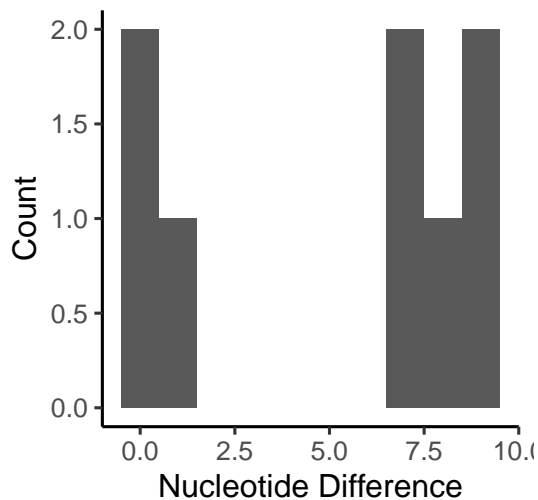
IGHV4-4*02_03

433 sequences assigned
77 (17.8%) exact matches, in which:
49 unique CDR3
4 unique J



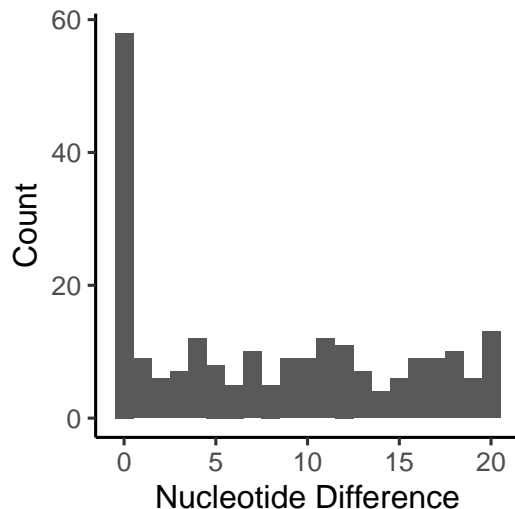
IGHV4-28*01_07

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



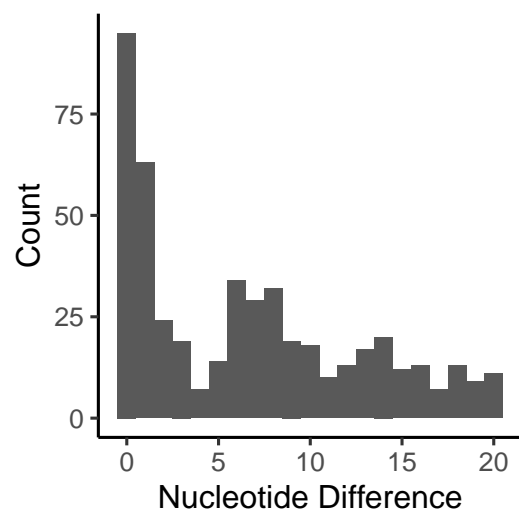
IGHV4-31*02

346 sequences assigned
58 (16.8%) exact matches, in which:
44 unique CDR3
4 unique J



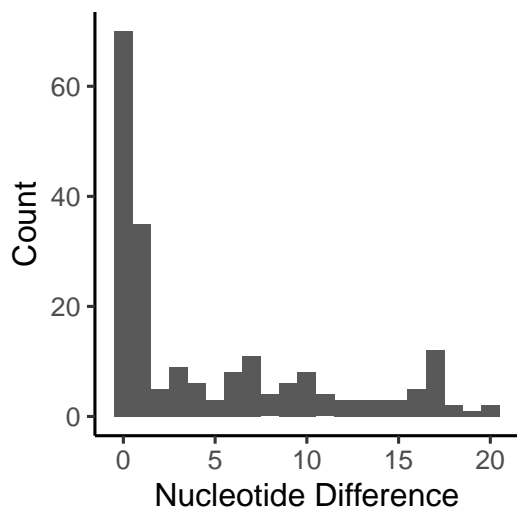
IGHV4-39*07

549 sequences assigned
95 (17.3%) exact matches, in which:
70 unique CDR3
5 unique J



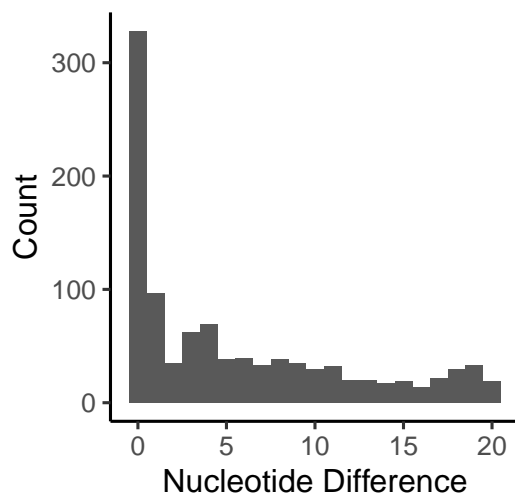
IGHV4-30-2*01

210 sequences assigned
70 (33.3%) exact matches, in which:
45 unique CDR3
5 unique J



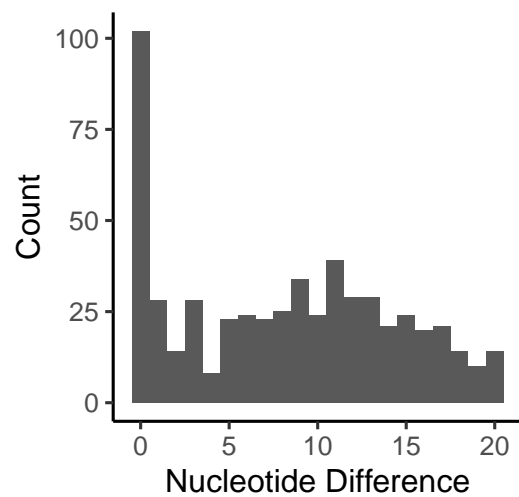
IGHV4-34*01_02

1234 sequences assigned
328 (26.6%) exact matches, in which:
187 unique CDR3
6 unique J



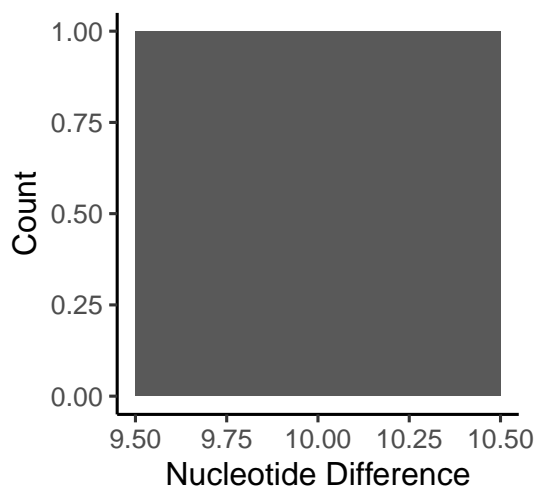
IGHV4-39*02_C258G

648 sequences assigned
102 (15.7%) exact matches, in which:
76 unique CDR3
5 unique J



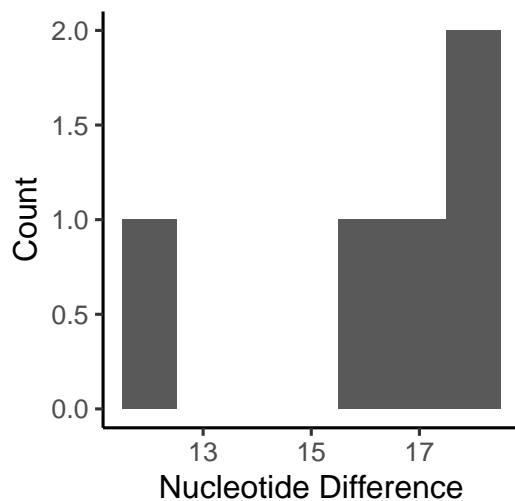
IGHV4-30-4*08

2 sequences assigned
No exact matches.



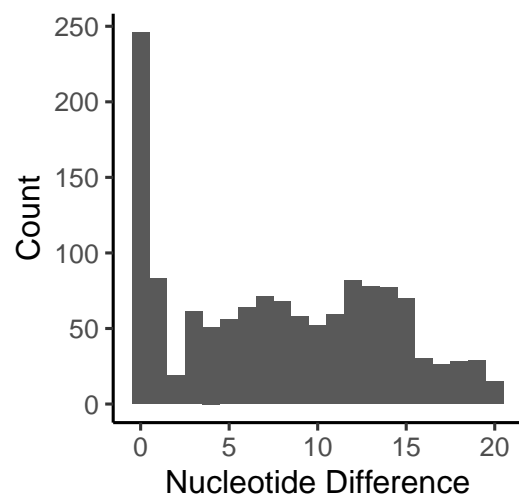
IGHV4-38-2*02

5 sequences assigned
No exact matches.



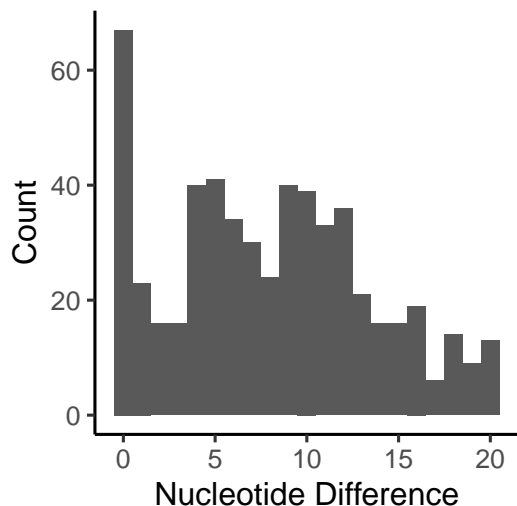
IGHV4-59*02_G88A

1473 sequences assigned
246 (16.7%) exact matches, in which:
143 unique CDR3
5 unique J



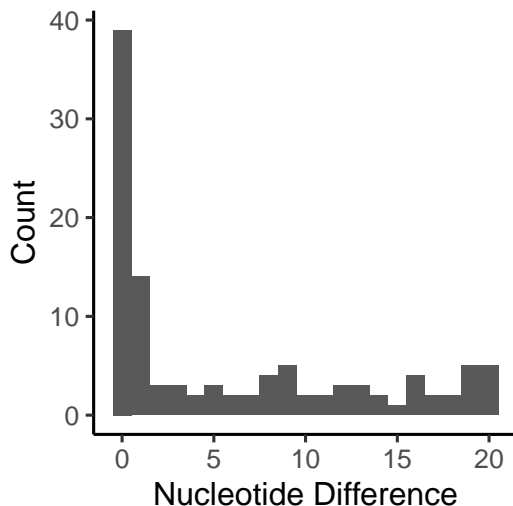
IGHV4-61*01

653 sequences assigned
67 (10.3%) exact matches, in which:
47 unique CDR3
5 unique J



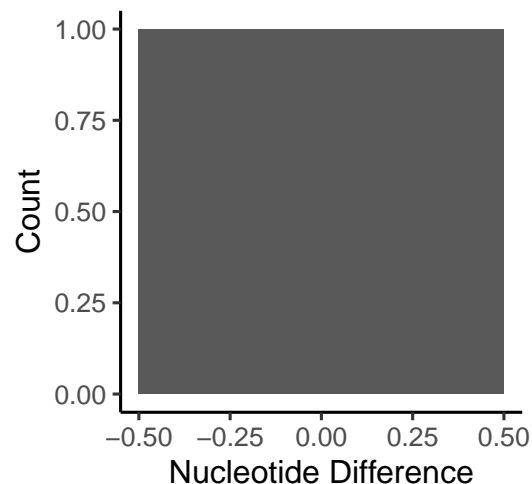
IGHV5-10-1*01_03

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



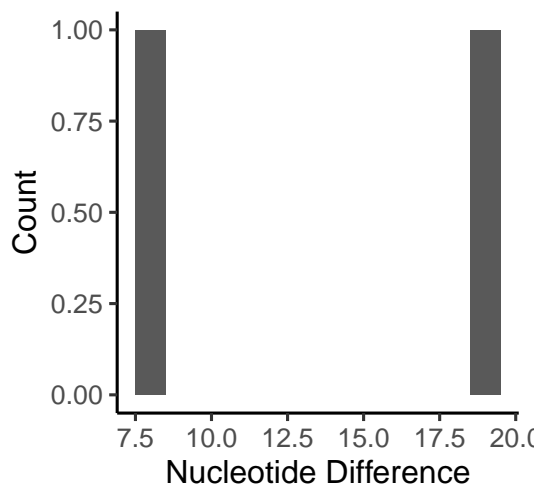
IGHV7-4-1*01

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



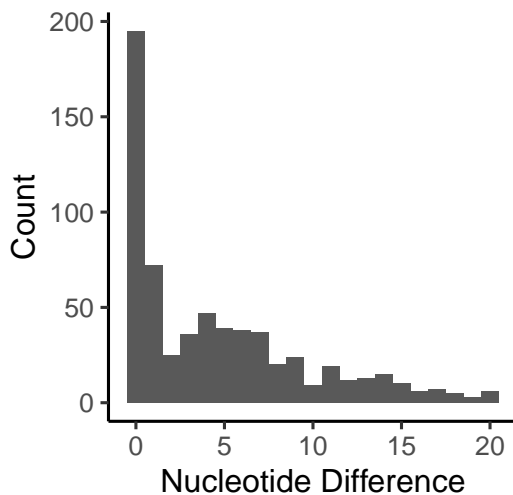
IGHV4/OR15-8*01

5 sequences assigned
No exact matches.



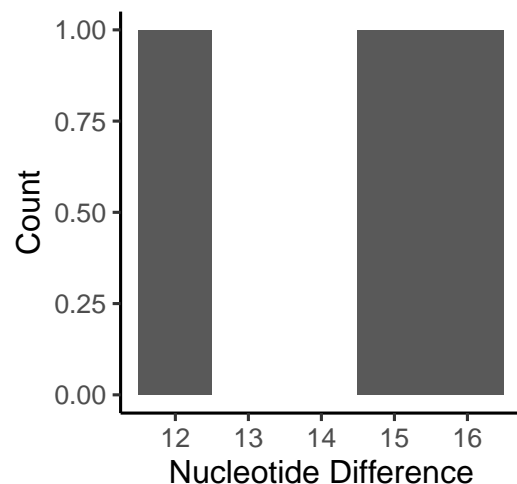
IGHV5-51*07_A128G

678 sequences assigned
195 (28.8%) exact matches, in which:
182 unique CDR3
5 unique J



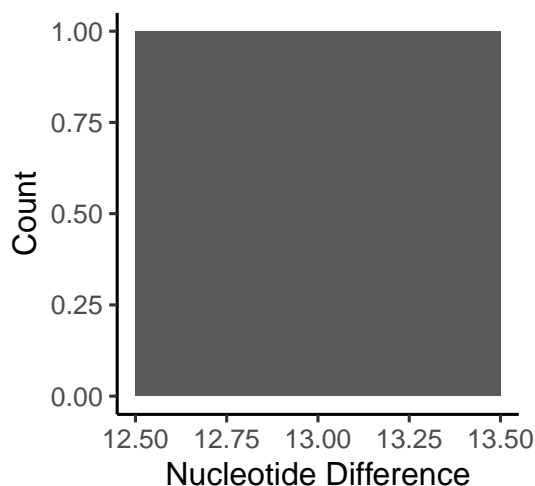
IGHV7-4-1*02

3 sequences assigned
No exact matches.



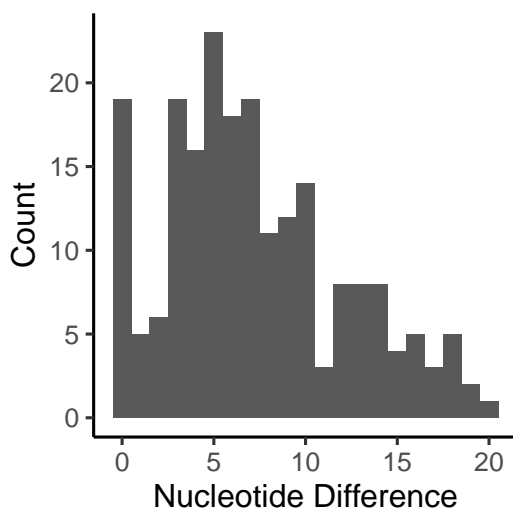
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



IGHV6-1*01_02

221 sequences assigned
19 (8.6%) exact matches, in which:
15 unique CDR3
5 unique J





Warning – no inferred sequences found.