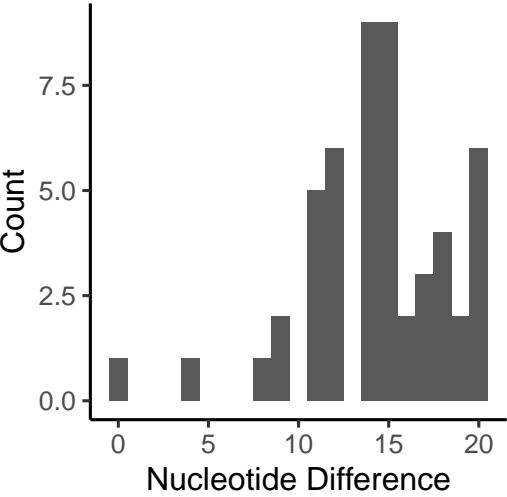


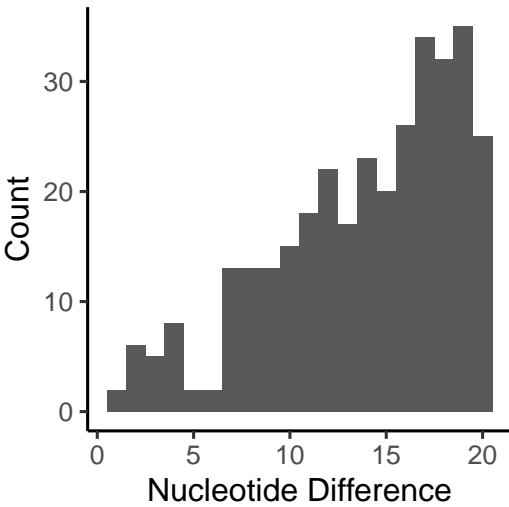
IGHV1-2*02

134 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



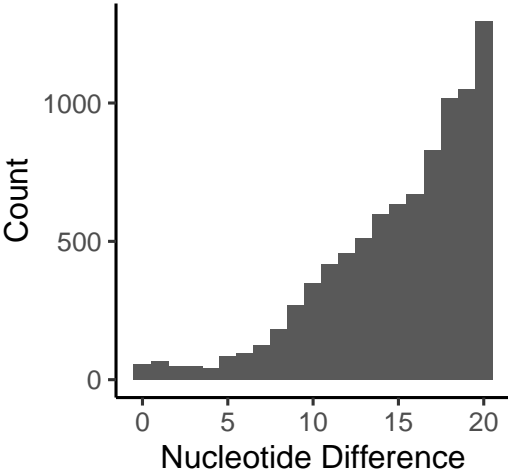
IGHV1-3*01_05

653 sequences assigned
No exact matches.



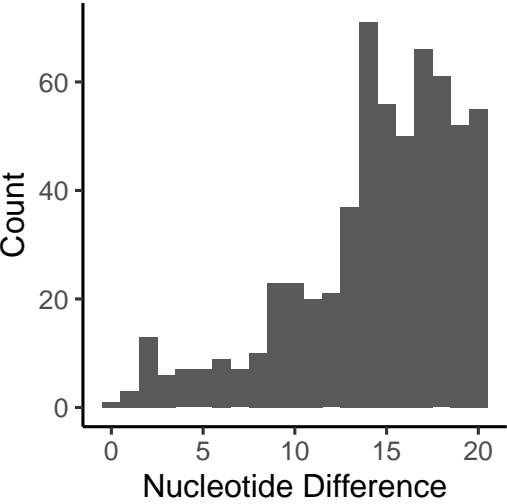
IGHV1-18*01

17924 sequences assigned
57 (0.3%) exact matches, in which:
38 unique CDR3
3 unique J



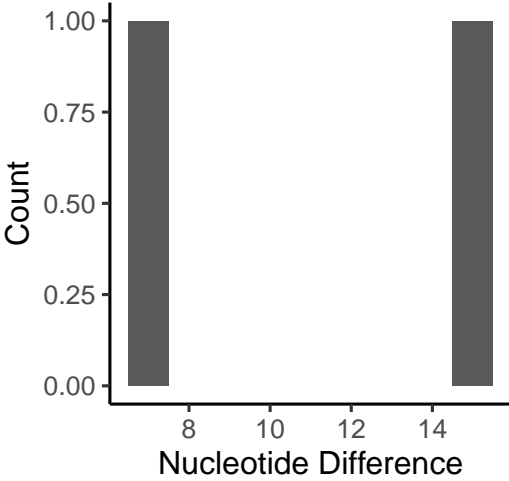
IGHV1-2*04

890 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



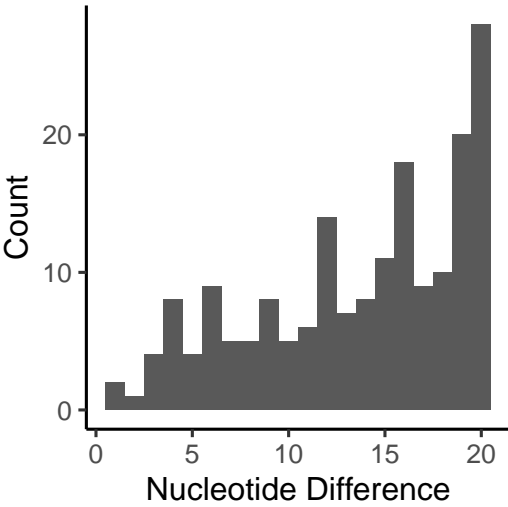
IGHV1-8*01

2 sequences assigned
No exact matches.



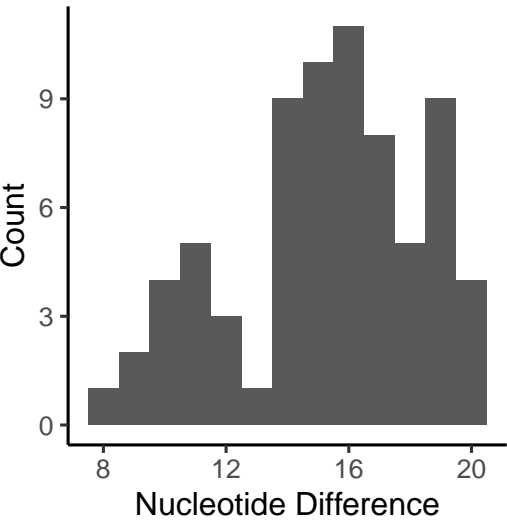
IGHV1-24*01

287 sequences assigned
No exact matches.



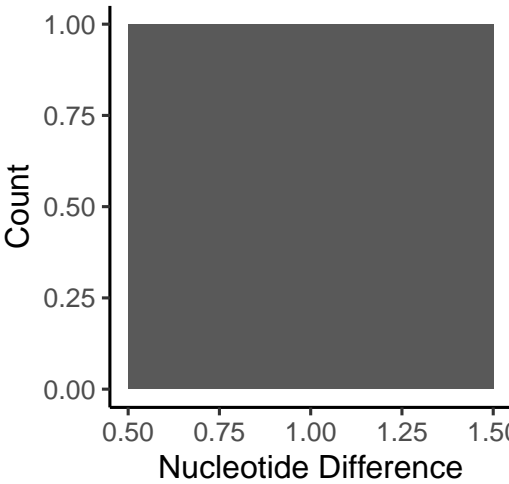
IGHV1-3*04

178 sequences assigned
No exact matches.



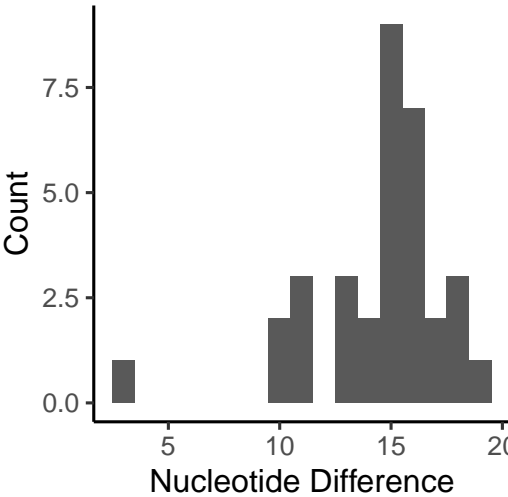
IGHV1-8*03

1 sequences assigned
No exact matches.



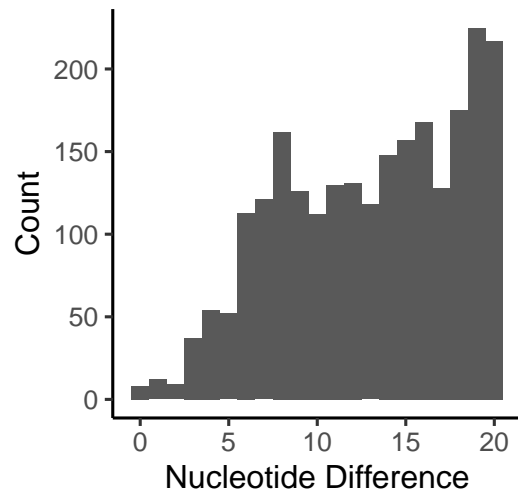
IGHV1-45*02

85 sequences assigned
No exact matches.



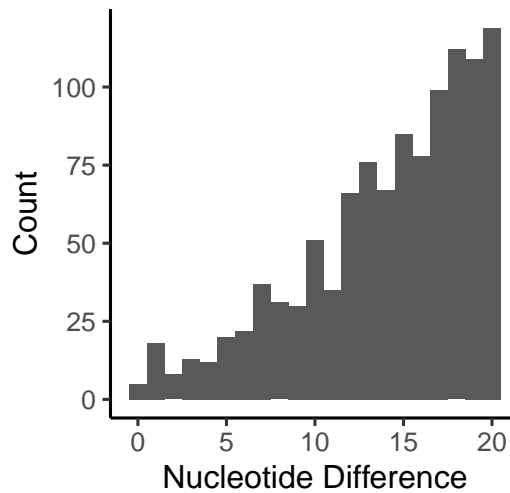
IGHV1-46*01

4172 sequences assigned
8 (0.2%) exact matches, in which:
6 unique CDR3
3 unique J



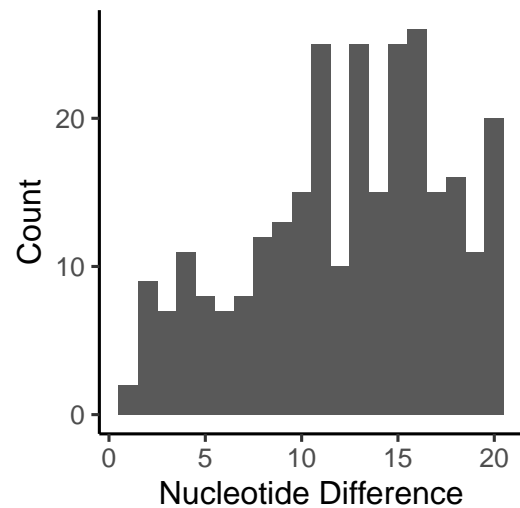
IGHV1-69*04_09

3136 sequences assigned
5 (0.2%) exact matches, in which:
4 unique CDR3
2 unique J



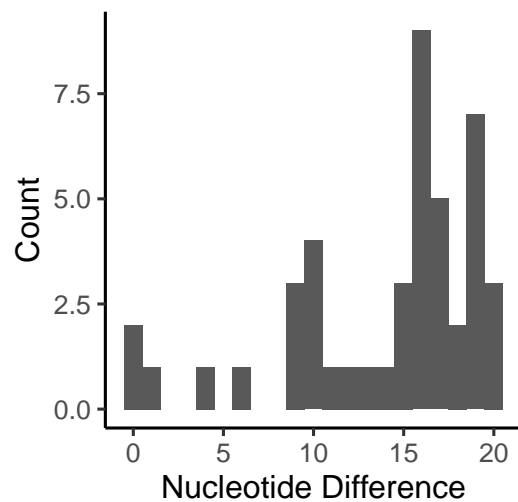
IGHV2-70*11_15

395 sequences assigned
No exact matches.



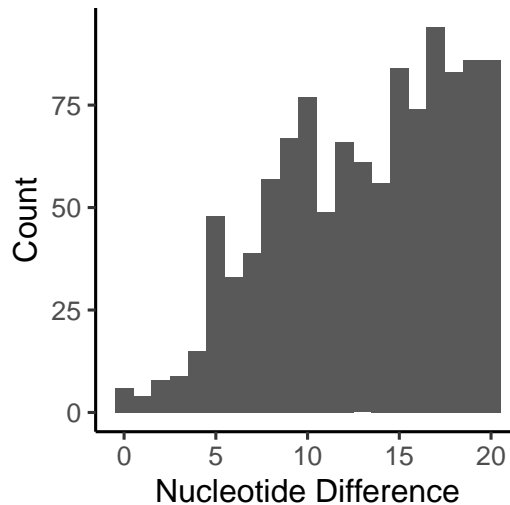
IGHV1-58*02

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



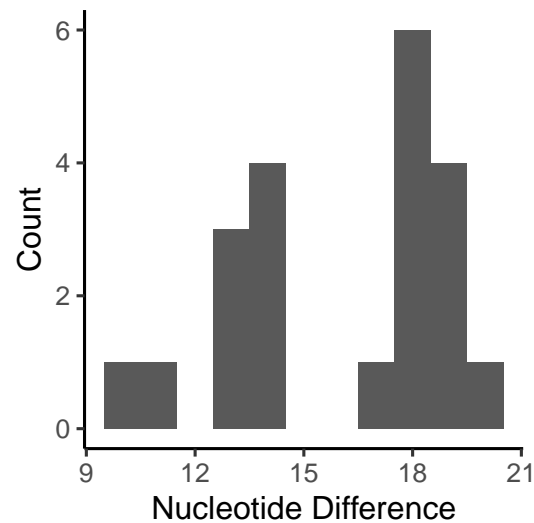
IGHV2-5*02

1575 sequences assigned
6 (0.4%) exact matches, in which:
5 unique CDR3
2 unique J



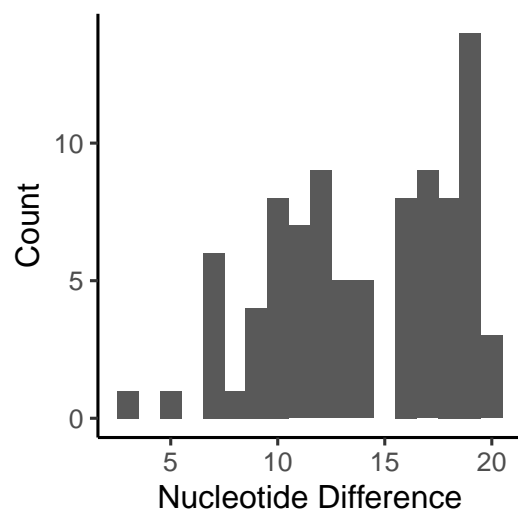
IGHV2-70D*04

30 sequences assigned
No exact matches.



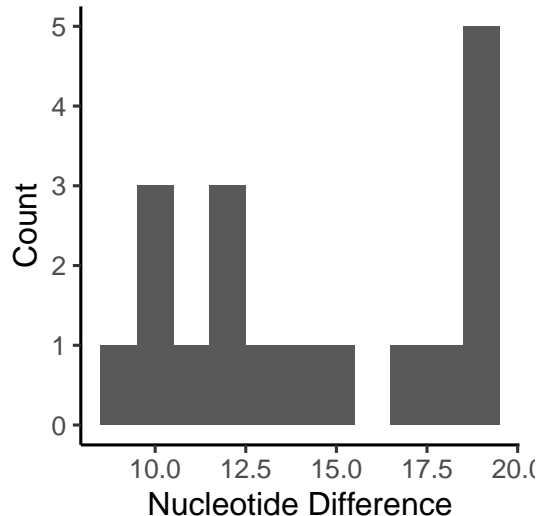
IGHV1-58*01_03

161 sequences assigned
No exact matches.



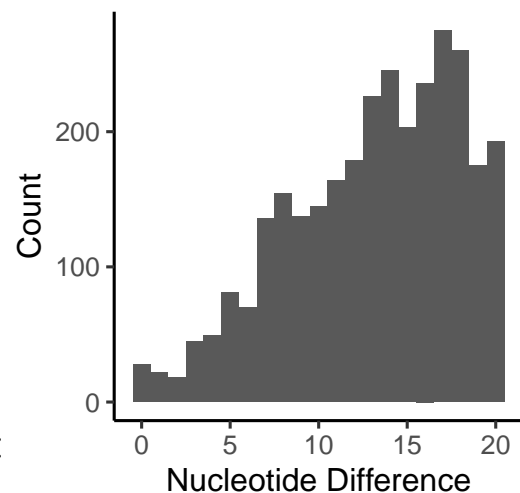
IGHV2-26*01

30 sequences assigned
No exact matches.



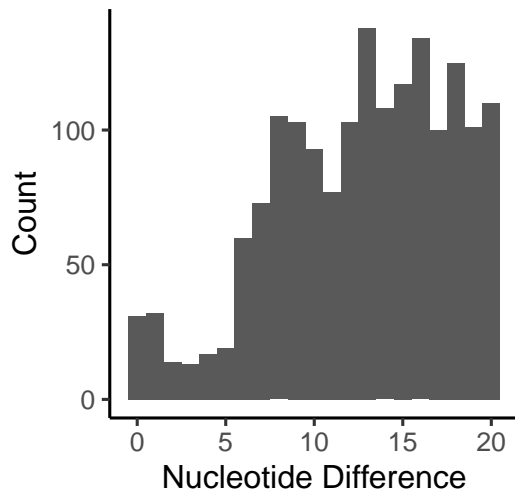
IGHV3-7*03

4696 sequences assigned
28 (0.6%) exact matches, in which:
21 unique CDR3
2 unique J



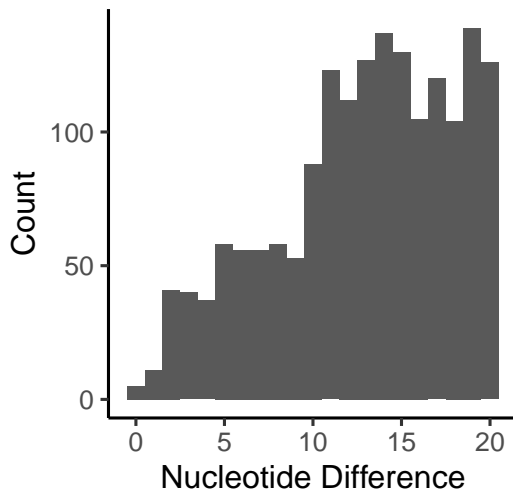
IGHV3-7*04

2788 sequences assigned
31 (1.1%) exact matches, in which:
22 unique CDR3
3 unique J



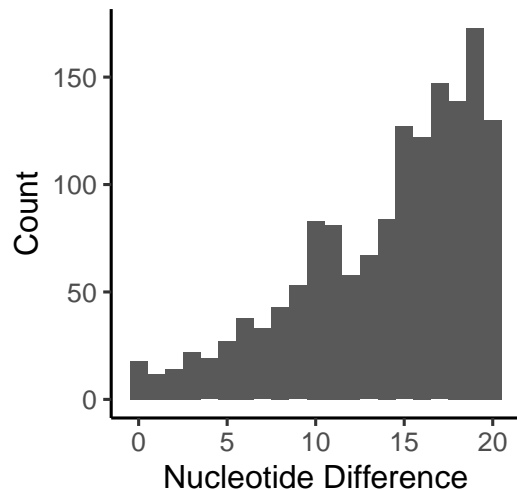
IGHV3-11*03_05

3597 sequences assigned
5 (0.1%) exact matches, in which:
5 unique CDR3
3 unique J



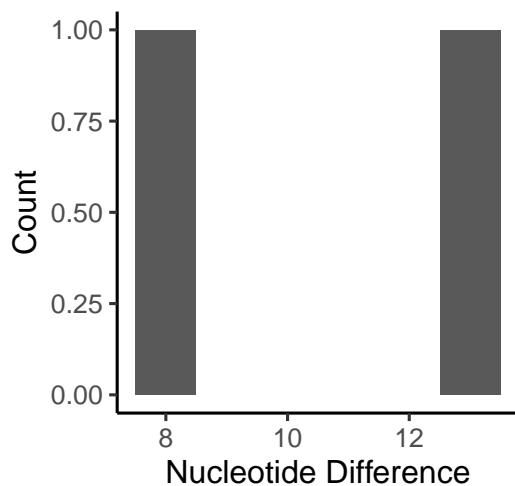
IGHV3-15*07

2559 sequences assigned
18 (0.7%) exact matches, in which:
17 unique CDR3
3 unique J



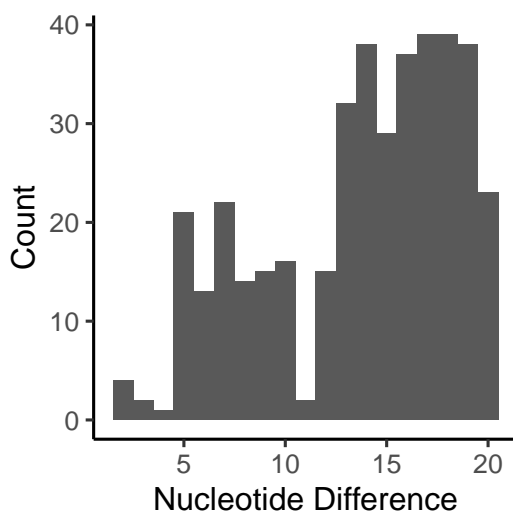
IGHV3-9*01

5 sequences assigned
No exact matches.



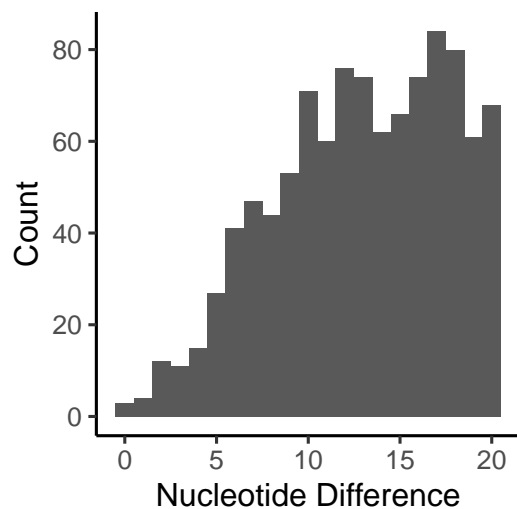
IGHV3-13*01

676 sequences assigned
No exact matches.



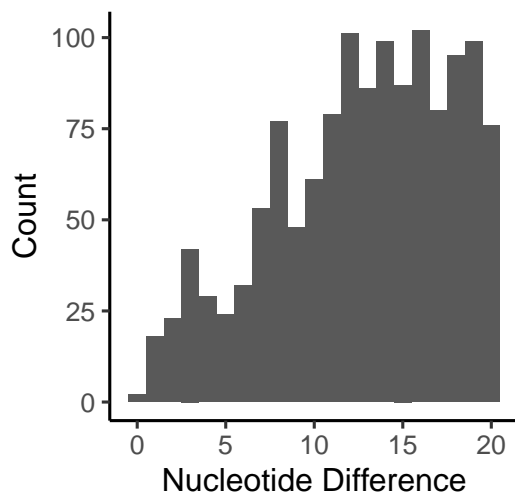
IGHV3-15*01_02

1828 sequences assigned
3 (0.2%) exact matches, in which:
3 unique CDR3
2 unique J



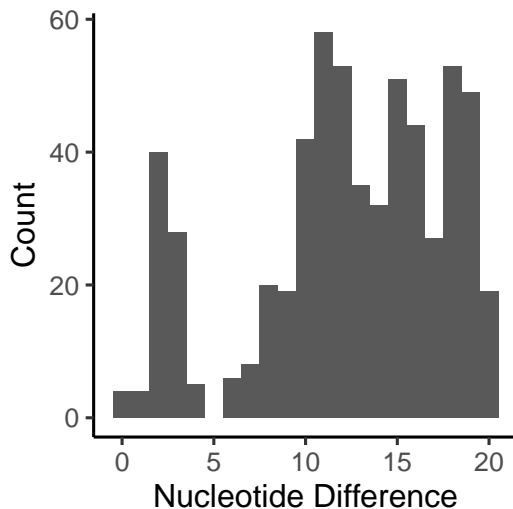
IGHV3-11*06

2182 sequences assigned
2 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



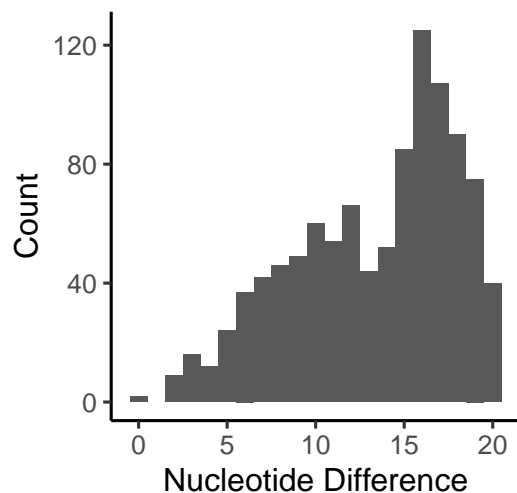
IGHV3-13*04

891 sequences assigned
4 (0.4%) exact matches, in which:
3 unique CDR3
2 unique J



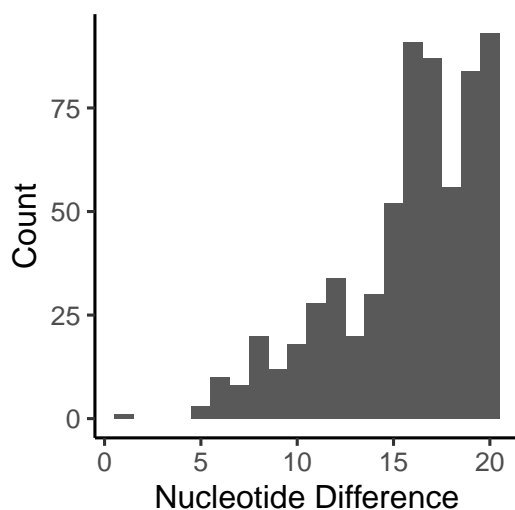
IGHV3-20*03_04

1670 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
0 unique J



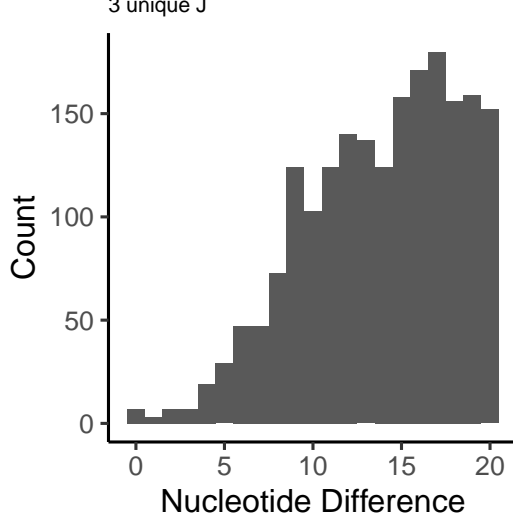
IGHV3-21*06

1631 sequences assigned
No exact matches.



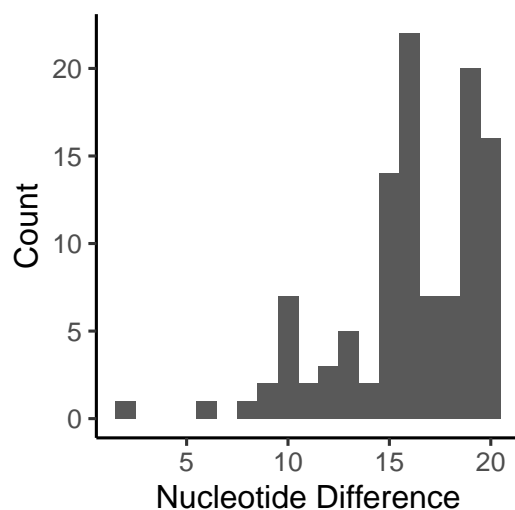
IGHV3-30-3*01

3483 sequences assigned
7 (0.2%) exact matches, in which:
7 unique CDR3
3 unique J



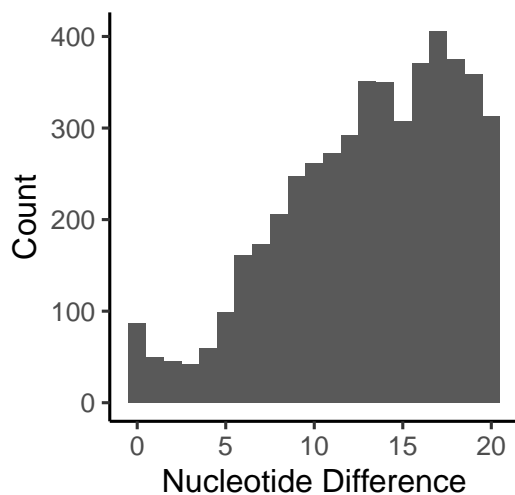
IGHV3-33*05

305 sequences assigned
No exact matches.



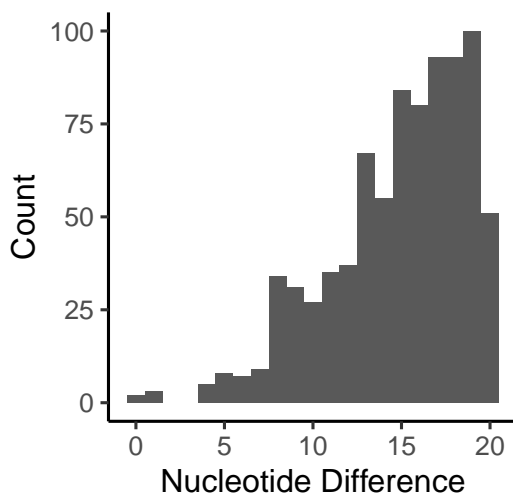
IGHV3-21*01_02

7235 sequences assigned
87 (1.2%) exact matches, in which:
71 unique CDR3
4 unique J



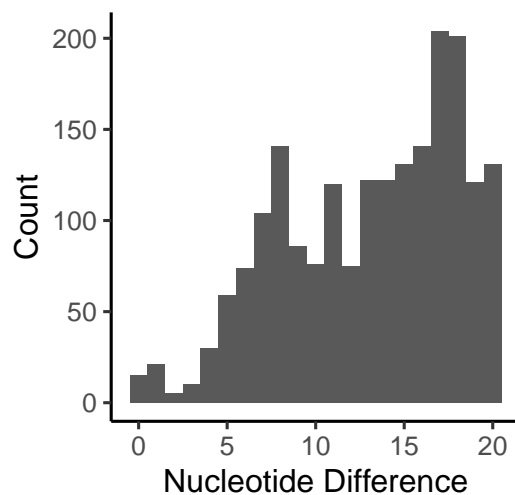
IGHV3-30*03

1824 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



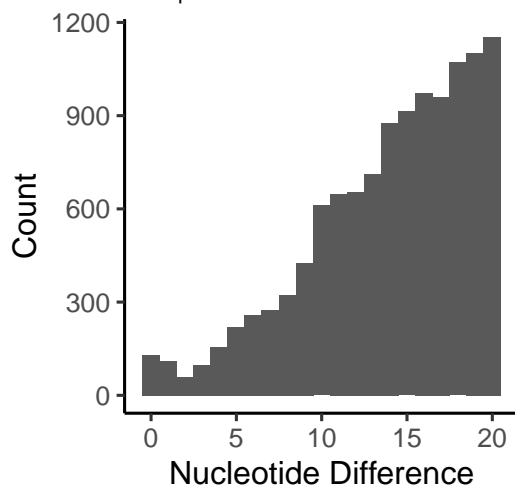
IGHV3-43*02

3328 sequences assigned
15 (0.5%) exact matches, in which:
12 unique CDR3
2 unique J



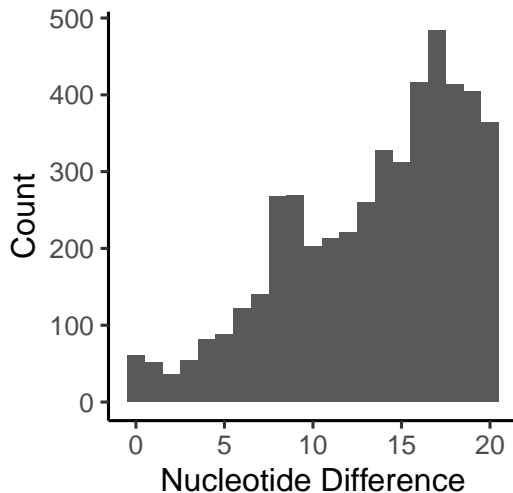
IGHV3-23*01_04

22576 sequences assigned
130 (0.6%) exact matches, in which:
103 unique CDR3
4 unique J



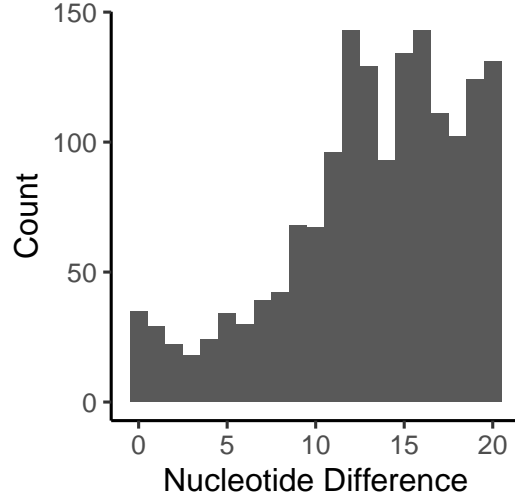
IGHV3-33*01

7739 sequences assigned
60 (0.8%) exact matches, in which:
41 unique CDR3
3 unique J



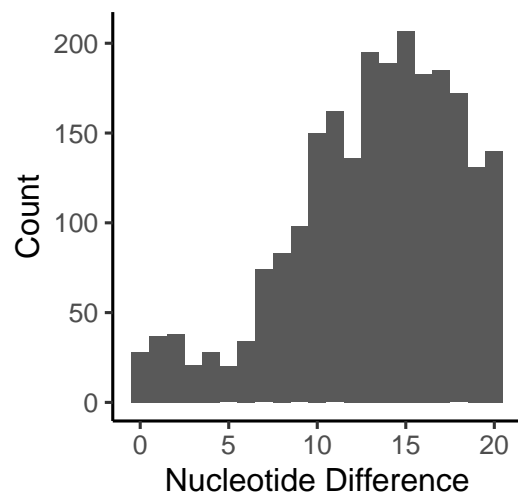
IGHV3-48*02

2581 sequences assigned
35 (1.4%) exact matches, in which:
24 unique CDR3
2 unique J



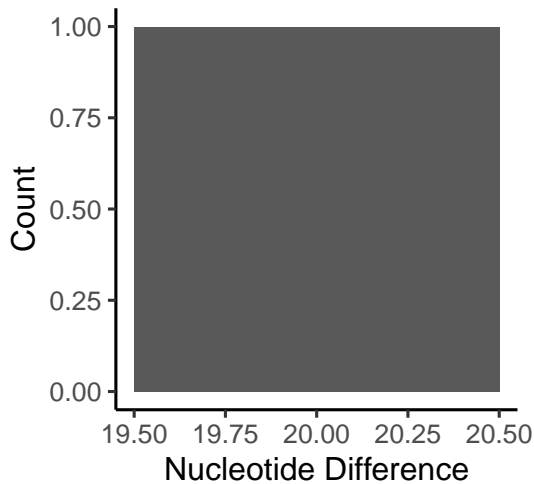
IGHV3-48*03

4100 sequences assigned
28 (0.7%) exact matches, in which:
20 unique CDR3
4 unique J



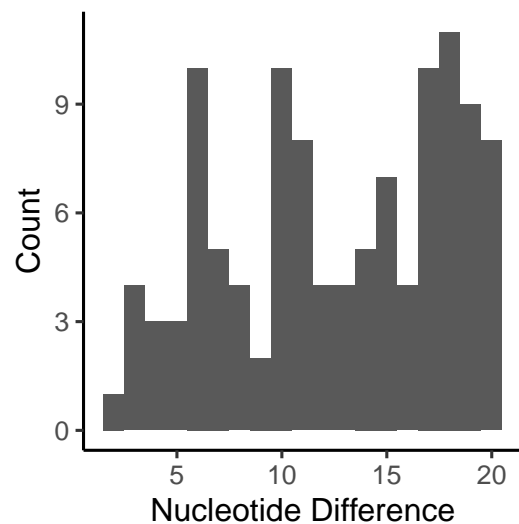
IGHV3-52*01_03

1 sequences assigned
No exact matches.



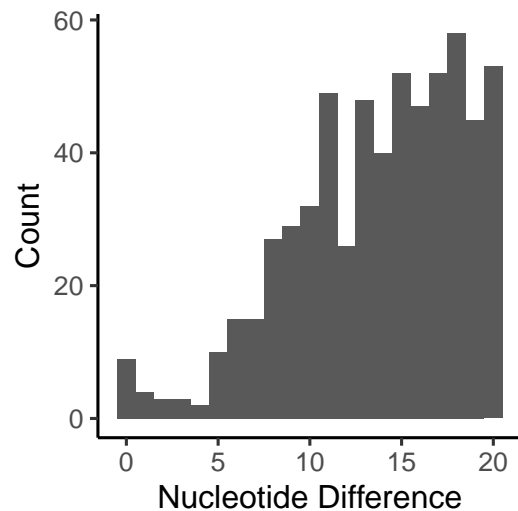
IGHV3-64*01

266 sequences assigned
No exact matches.



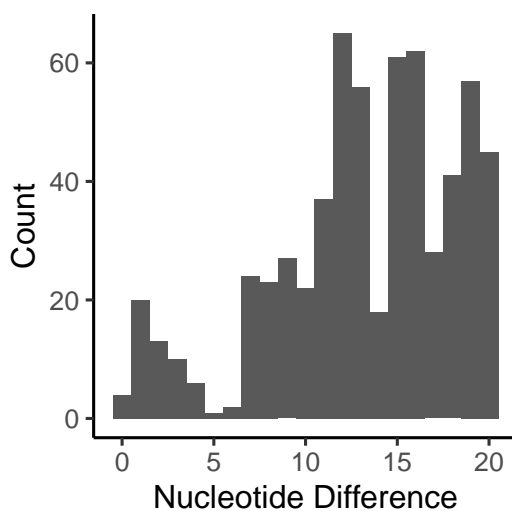
IGHV3-49*04

1156 sequences assigned
9 (0.8%) exact matches, in which:
9 unique CDR3
2 unique J



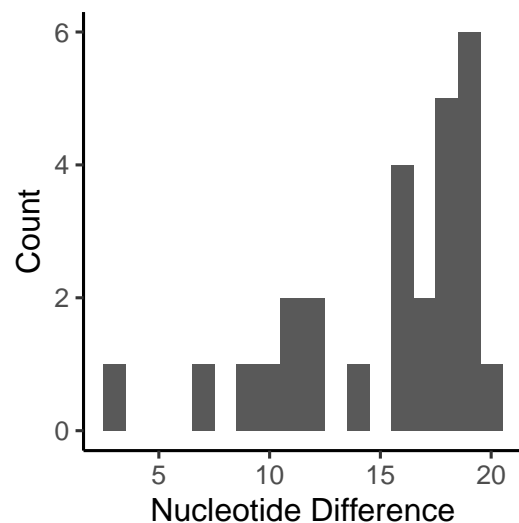
IGHV3-53*04

903 sequences assigned
4 (0.4%) exact matches, in which:
4 unique CDR3
1 unique J



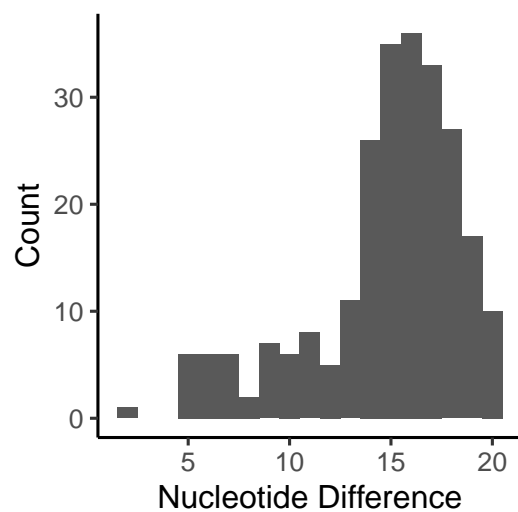
IGHV3-64*04

68 sequences assigned
No exact matches.



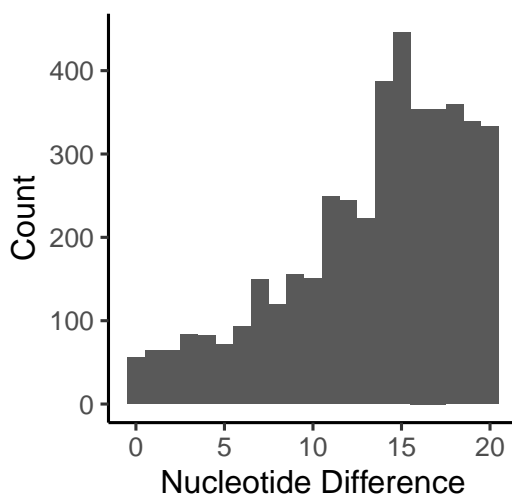
IGHV3-49*03_05

497 sequences assigned
No exact matches.



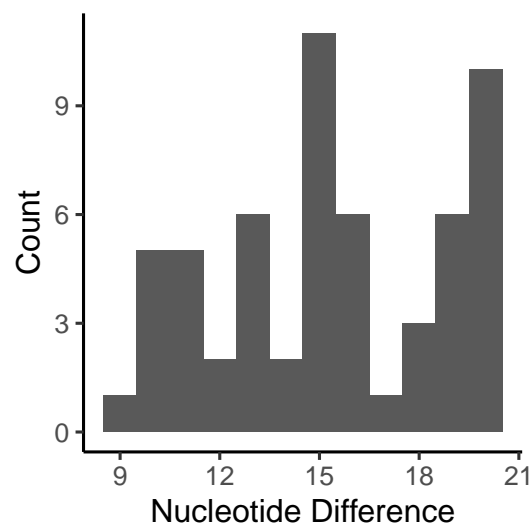
IGHV3-53*01_02

7128 sequences assigned
56 (0.8%) exact matches, in which:
40 unique CDR3
3 unique J



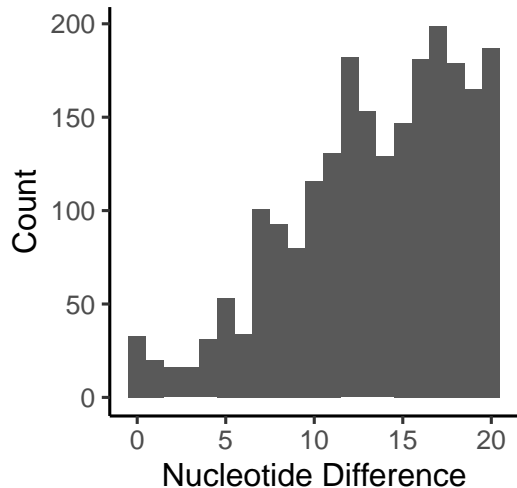
IGHV3-64*02_07

140 sequences assigned
No exact matches.



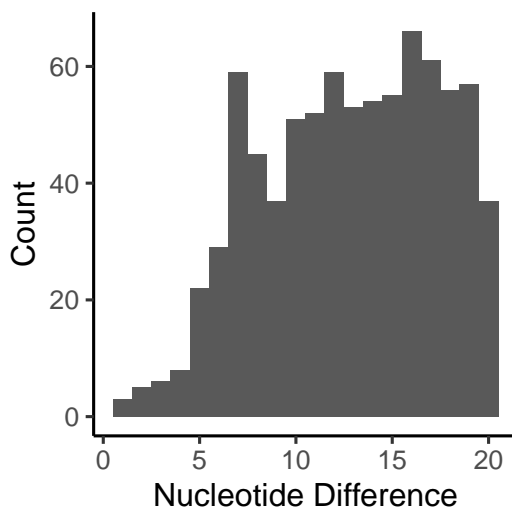
IGHV3-66*01

3481 sequences assigned
33 (0.9%) exact matches, in which:
26 unique CDR3
4 unique J



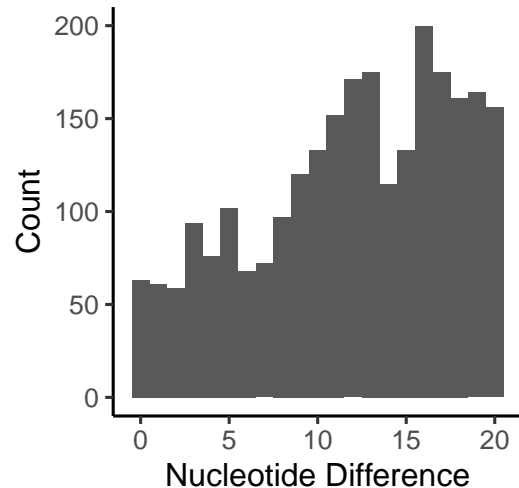
IGHV3-72*01

1068 sequences assigned
No exact matches.



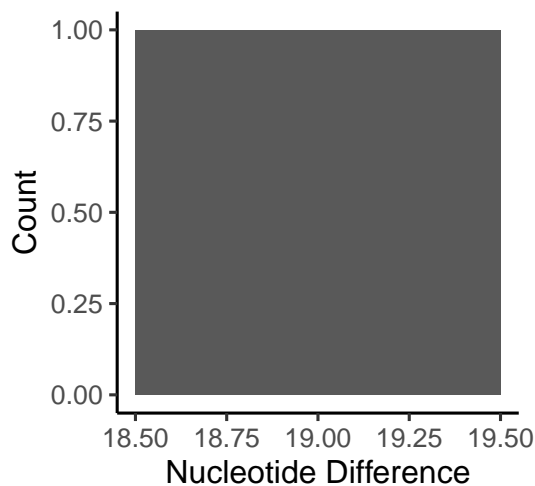
IGHV3-74*01_02

3668 sequences assigned
63 (1.7%) exact matches, in which:
41 unique CDR3
4 unique J



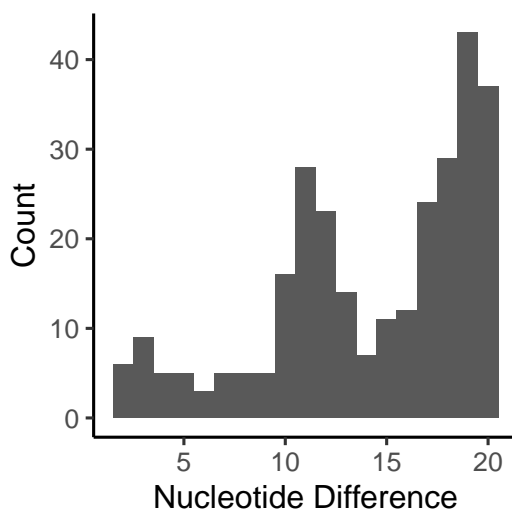
IGHV3-69-1*01

14 sequences assigned
No exact matches.



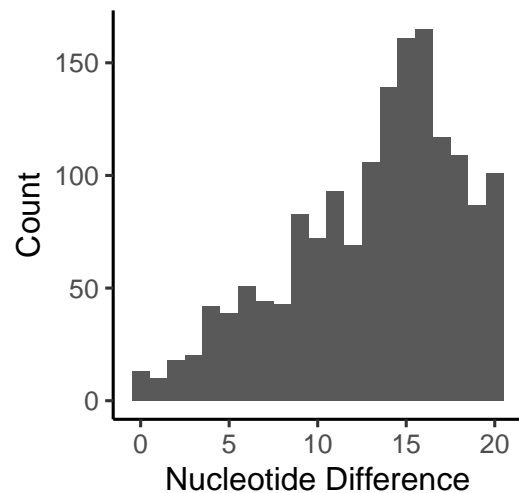
IGHV3-73*01_02

508 sequences assigned
No exact matches.



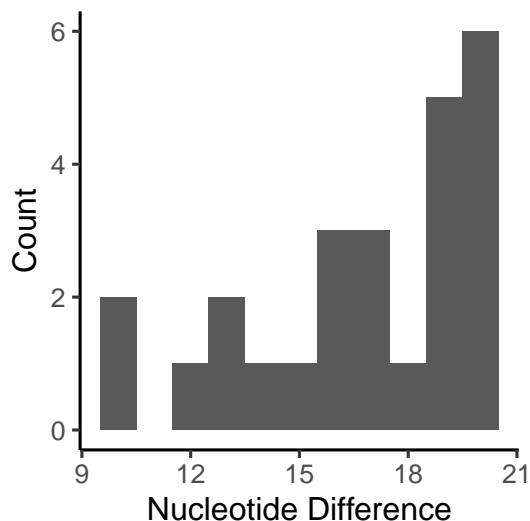
IGHV3-64D*06

3022 sequences assigned
13 (0.4%) exact matches, in which:
12 unique CDR3
2 unique J



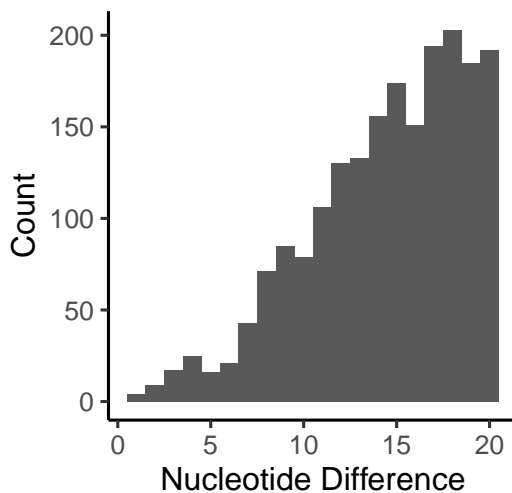
IGHV3-69-1*02

109 sequences assigned
No exact matches.



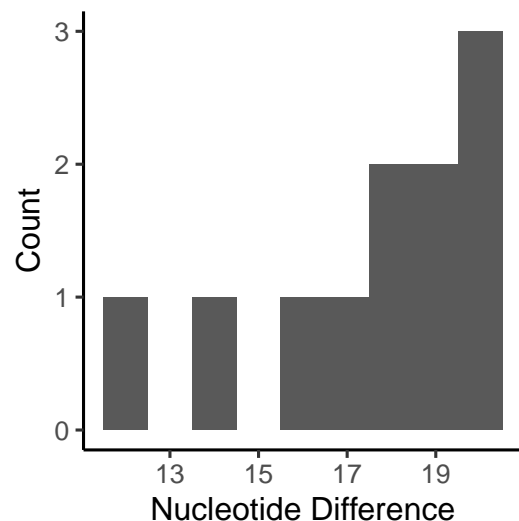
IGHV3-74*03

3637 sequences assigned
No exact matches.



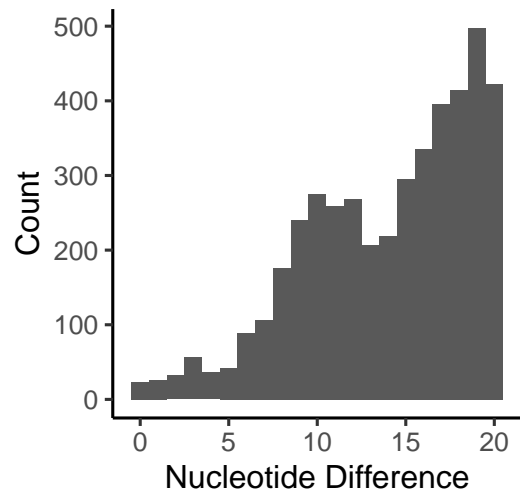
IGHV3-NL1*01

29 sequences assigned
No exact matches.



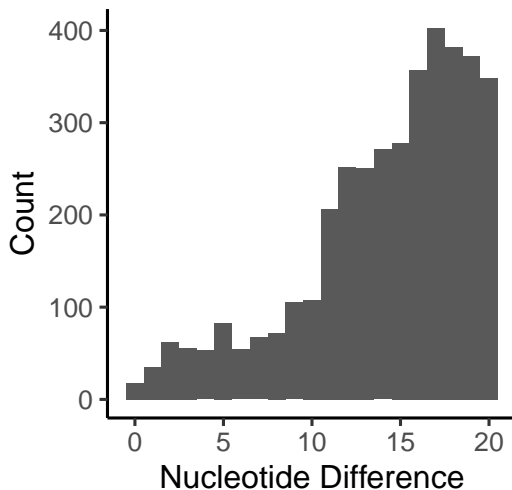
IGHV4-4*02_03

9038 sequences assigned
23 (0.3%) exact matches, in which:
15 unique CDR3
3 unique J



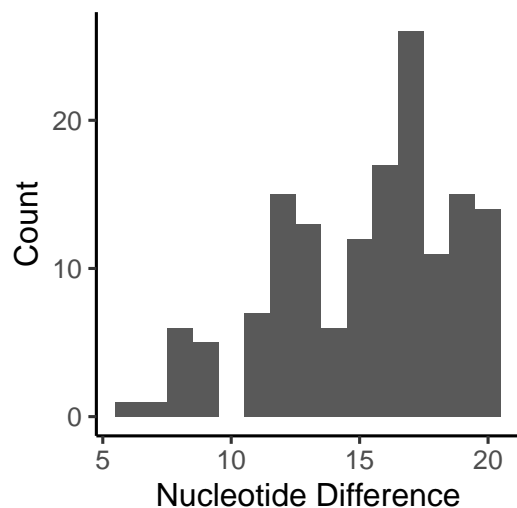
IGHV4-30-4*01

7094 sequences assigned
18 (0.3%) exact matches, in which:
11 unique CDR3
2 unique J



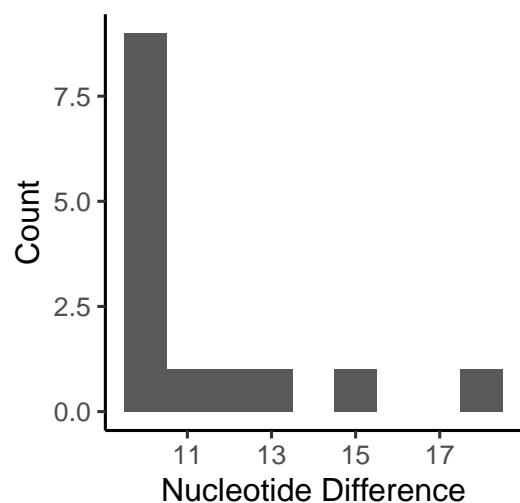
IGHV4-30-2*06

303 sequences assigned
No exact matches.



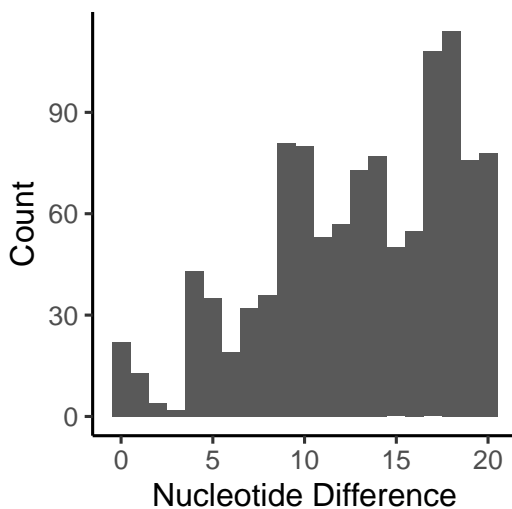
IGHV4-28*03

37 sequences assigned
No exact matches.



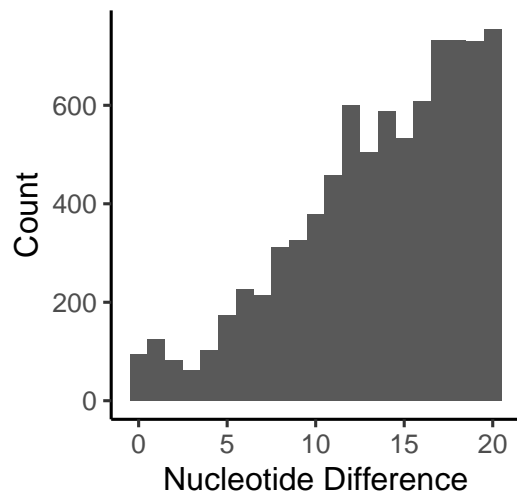
IGHV4-30-2*01

1776 sequences assigned
22 (1.2%) exact matches, in which:
19 unique CDR3
4 unique J



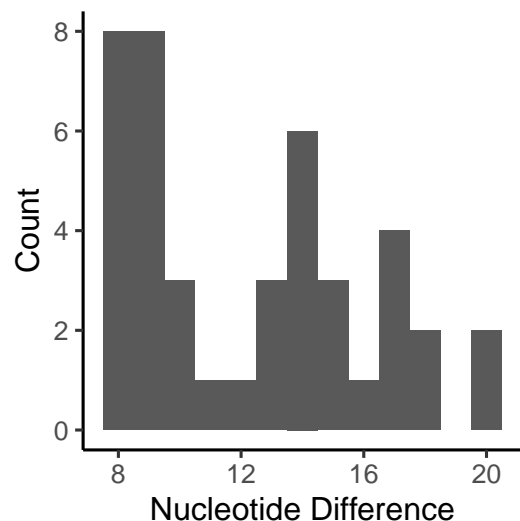
IGHV4-31*02

17571 sequences assigned
95 (0.5%) exact matches, in which:
71 unique CDR3
3 unique J



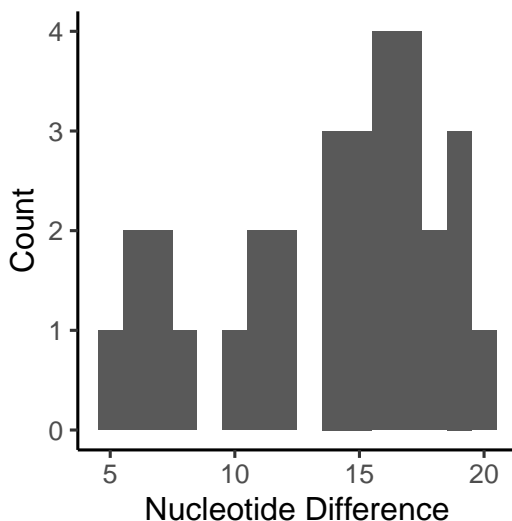
IGHV4-28*01_07

93 sequences assigned
No exact matches.



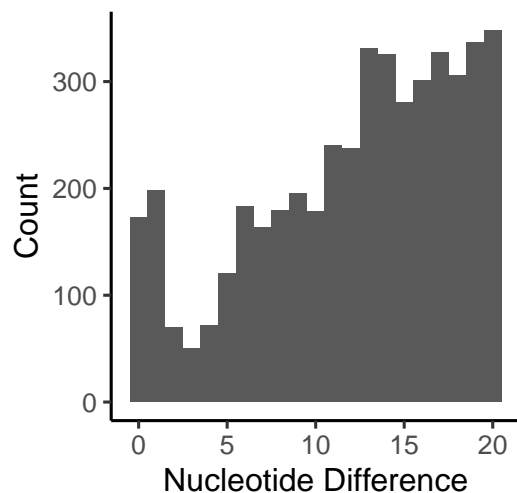
IGHV4-30-2*03

111 sequences assigned
No exact matches.



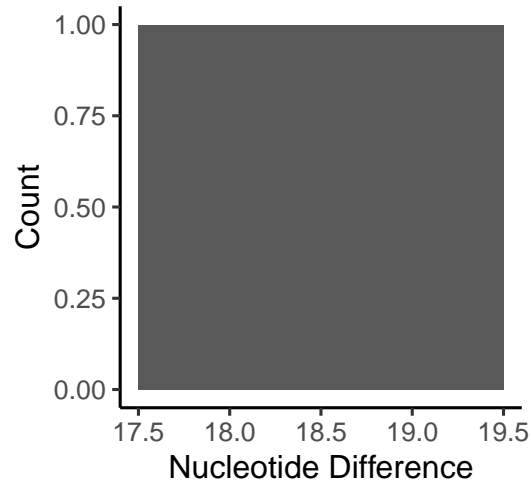
IGHV4-34*01_02

8874 sequences assigned
173 (1.9%) exact matches, in which:
112 unique CDR3
6 unique J



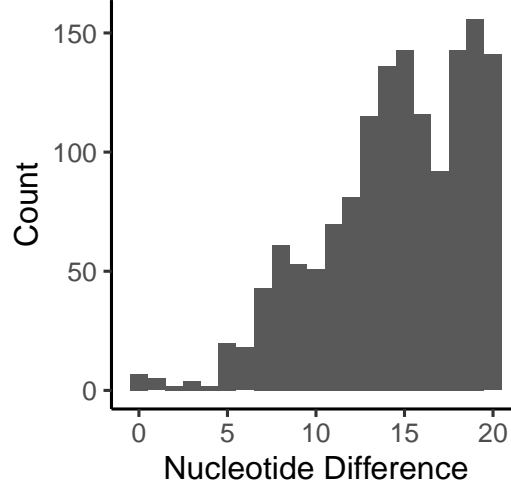
IGHV4-38-2*01

5 sequences assigned
No exact matches.



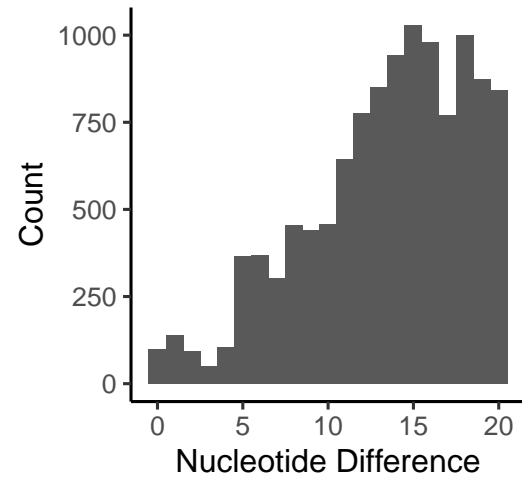
IGHV4-39*01_05

3677 sequences assigned
7 (0.2%) exact matches, in which:
7 unique CDR3
3 unique J



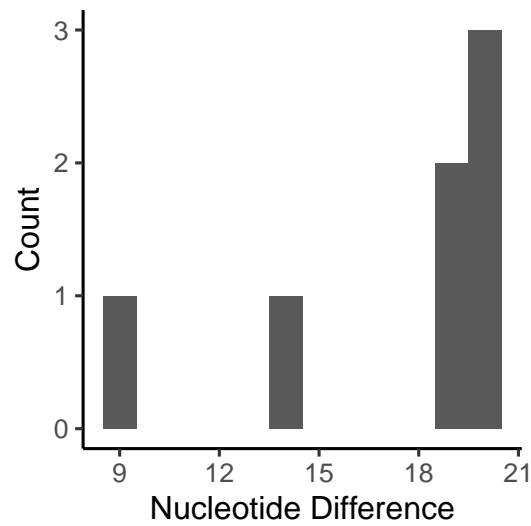
IGHV4-59*01_07

19586 sequences assigned
99 (0.5%) exact matches, in which:
75 unique CDR3
6 unique J



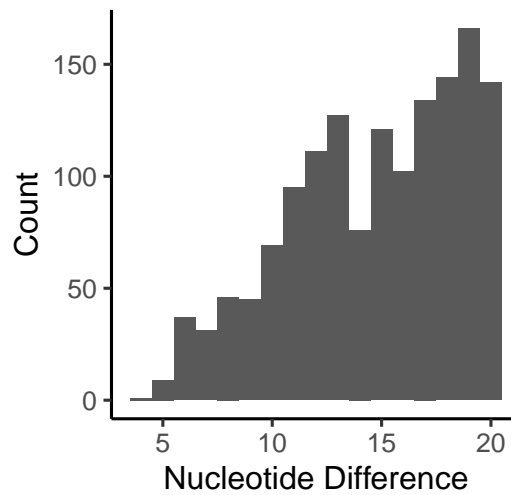
IGHV4-38-2*02

49 sequences assigned
No exact matches.



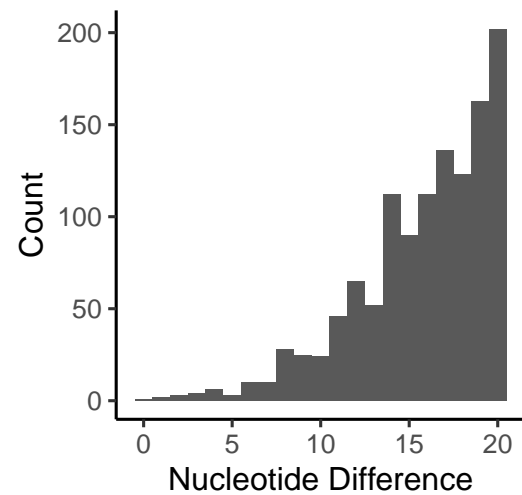
IGHV4-59*02

3441 sequences assigned
No exact matches.



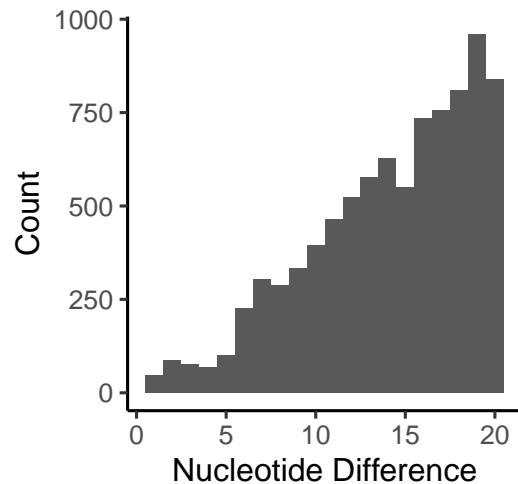
IGHV4-59*12

3394 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



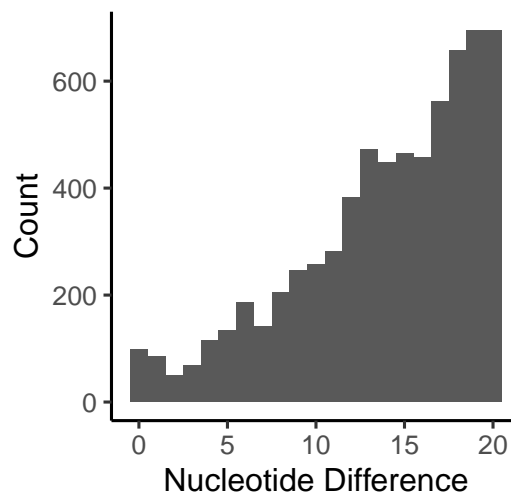
IGHV4-39*02

20914 sequences assigned
No exact matches.



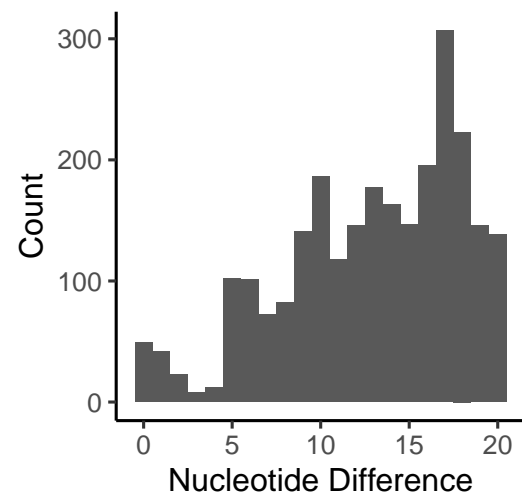
IGHV4-59*08

12656 sequences assigned
98 (0.8%) exact matches, in which:
69 unique CDR3
5 unique J



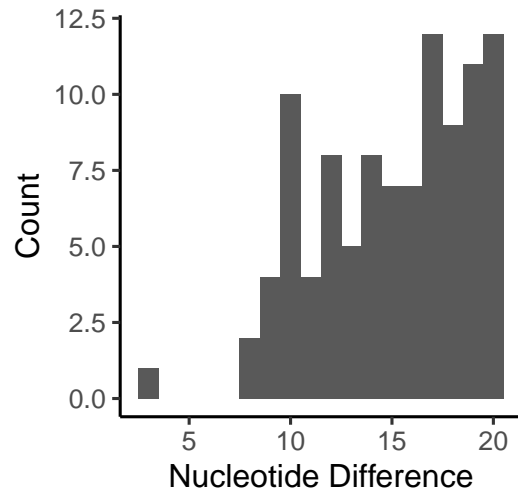
IGHV4-61*01

3682 sequences assigned
49 (1.3%) exact matches, in which:
40 unique CDR3
3 unique J



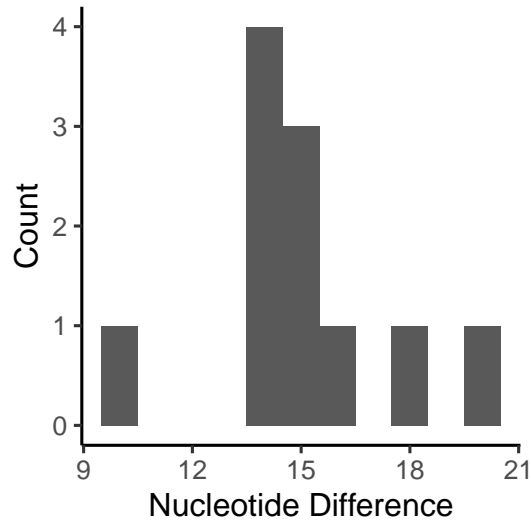
IGHV4-61*05

295 sequences assigned
No exact matches.



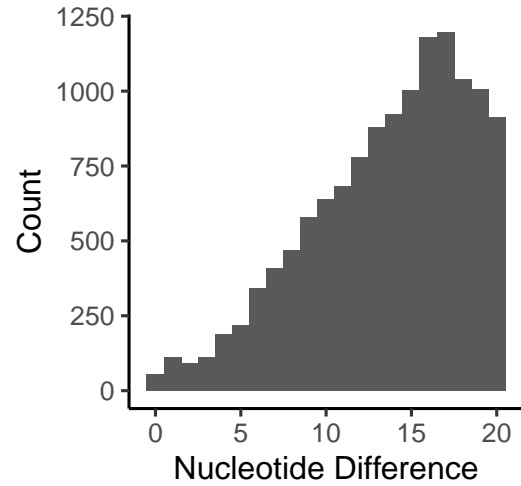
IGHV4/OR15-8*02

258 sequences assigned
No exact matches.



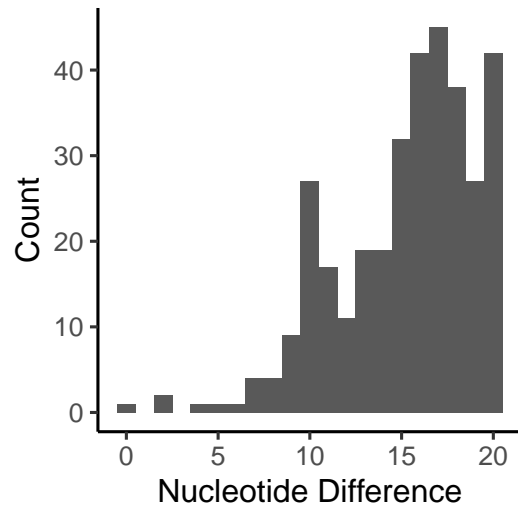
IGHV5-51*01_03

20249 sequences assigned
55 (0.3%) exact matches, in which:
35 unique CDR3
3 unique J



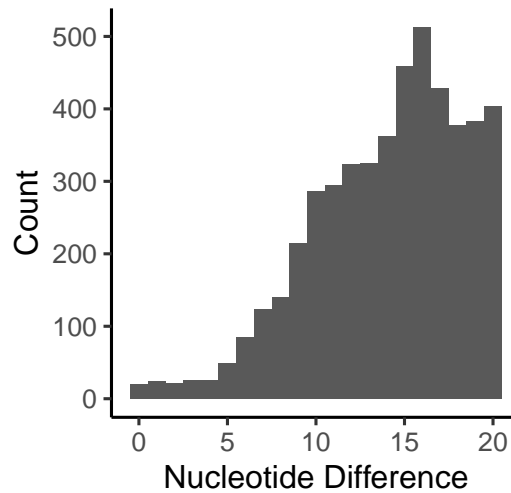
IGHV4-61*08

837 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



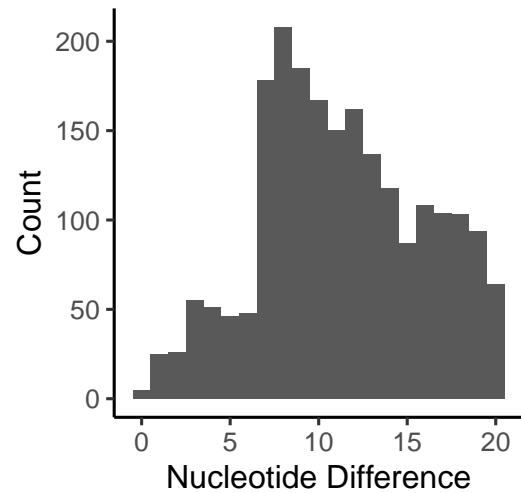
IGHV5-10-1*01_03

8801 sequences assigned
20 (0.2%) exact matches, in which:
14 unique CDR3
3 unique J



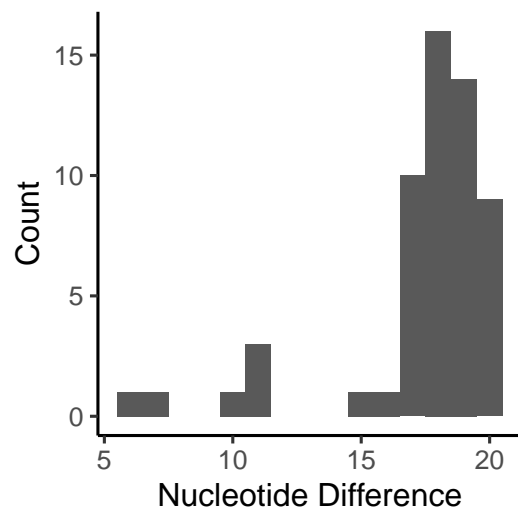
IGHV6-1*01_02

2637 sequences assigned
5 (0.2%) exact matches, in which:
5 unique CDR3
2 unique J



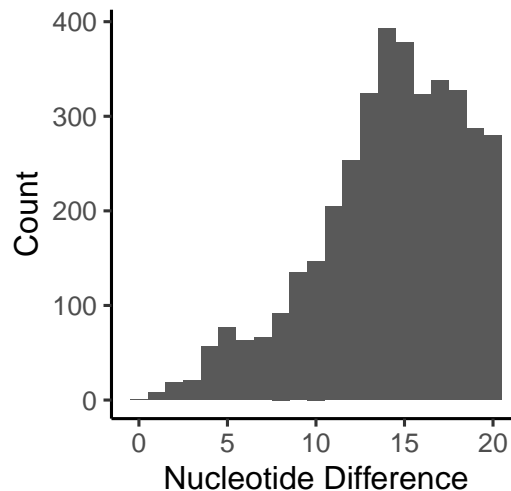
IGHV4/OR15-8*01

123 sequences assigned
No exact matches.



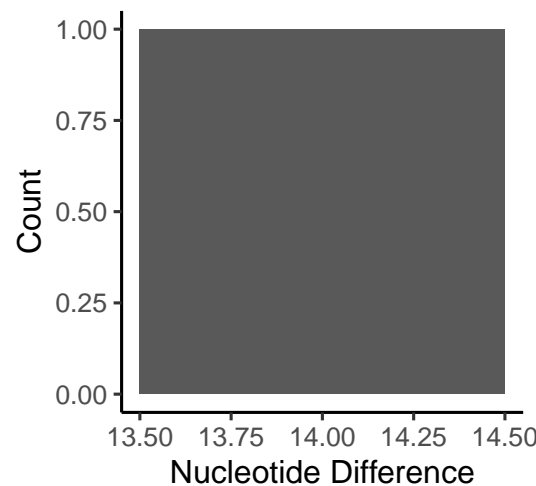
IGHV5-51*07

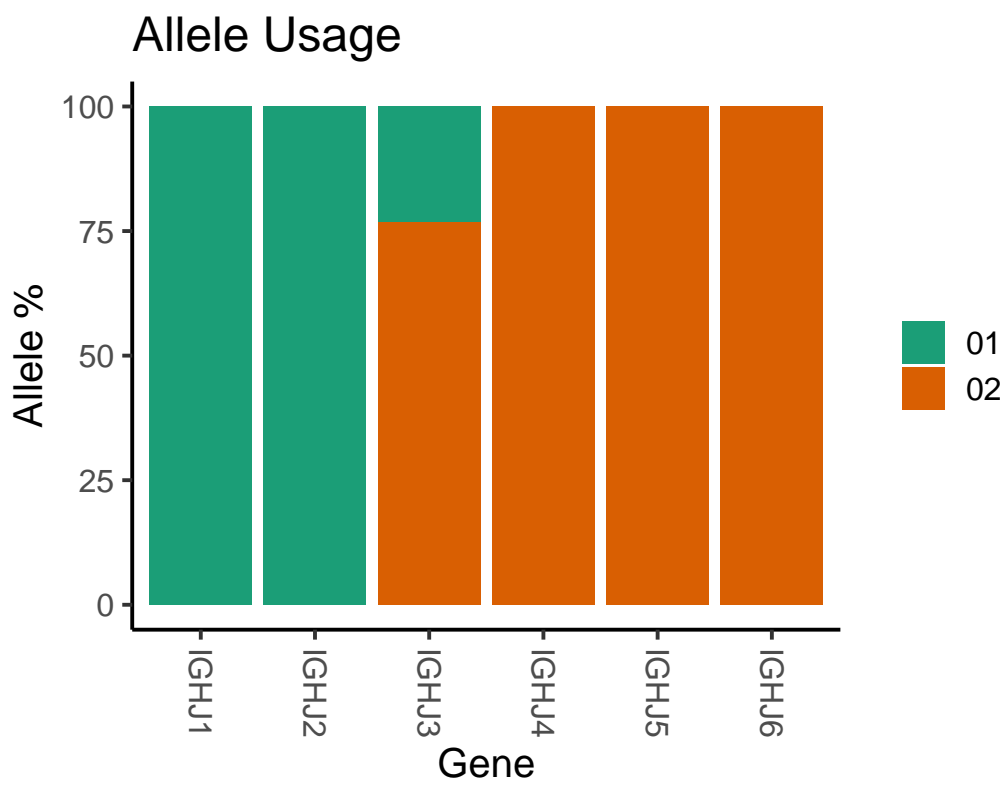
6016 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



IGHV3/OR16-10*01_03

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.