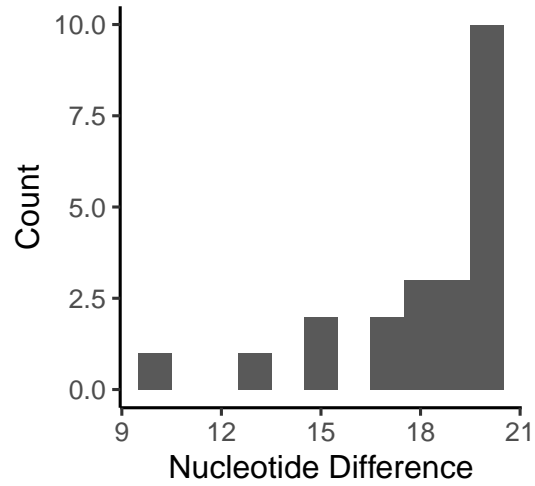


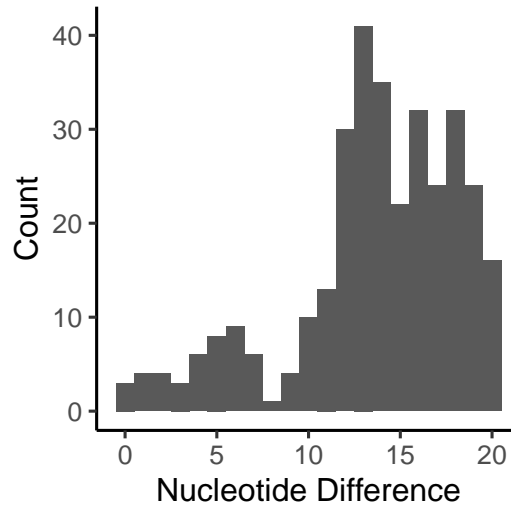
IGHV1-2*02

117 sequences assigned
No exact matches.



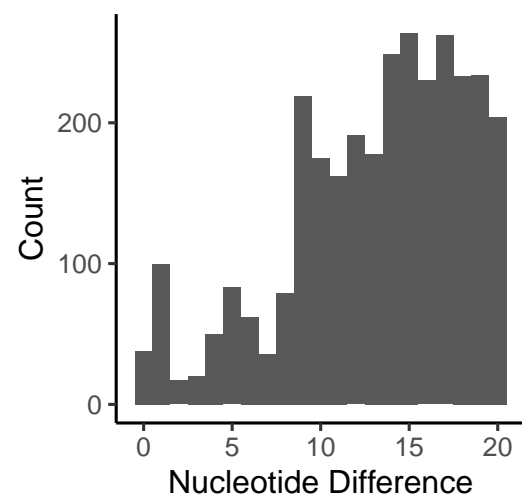
IGHV1-3*01_05

616 sequences assigned
3 (0.5%) exact matches, in which:
3 unique CDR3
2 unique J



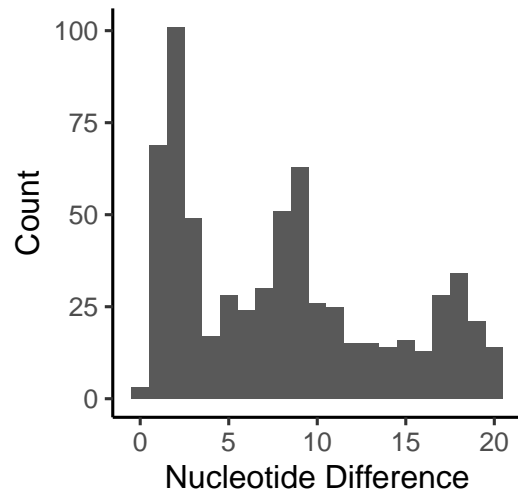
IGHV1-18*04

4581 sequences assigned
38 (0.8%) exact matches, in which:
23 unique CDR3
3 unique J



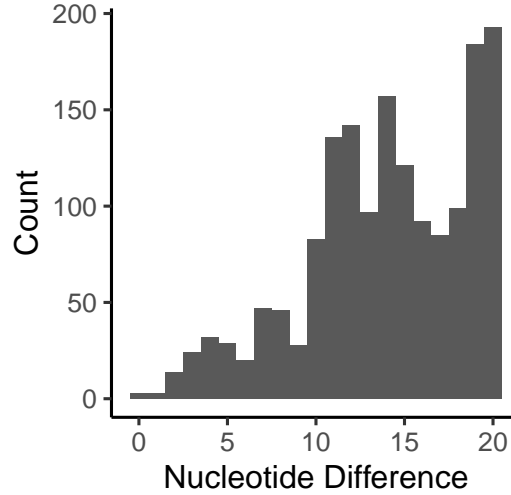
IGHV1-2*04

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



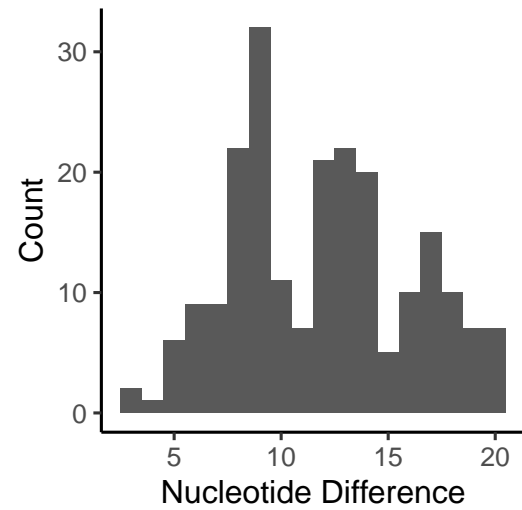
IGHV1-8*01

2399 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
1 unique J



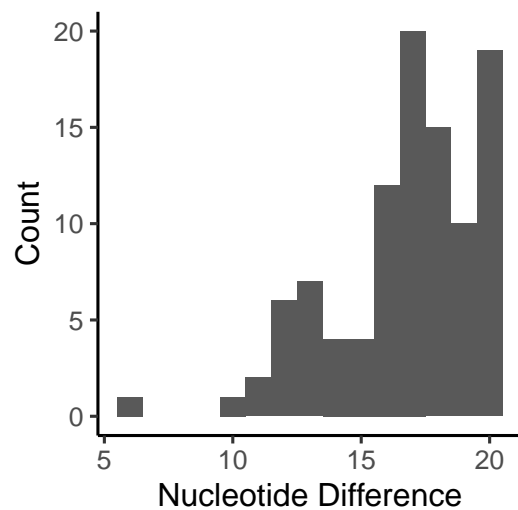
IGHV1-24*01

267 sequences assigned
No exact matches.



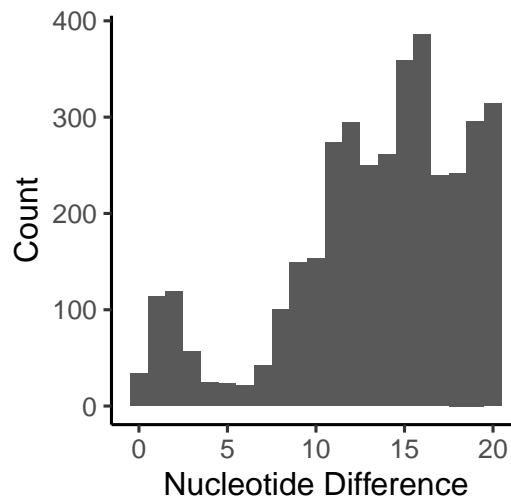
IGHV1-3*04

218 sequences assigned
No exact matches.



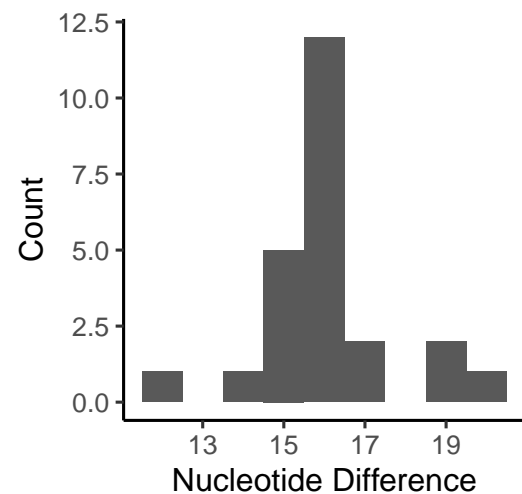
IGHV1-18*01

6626 sequences assigned
34 (0.5%) exact matches, in which:
24 unique CDR3
3 unique J



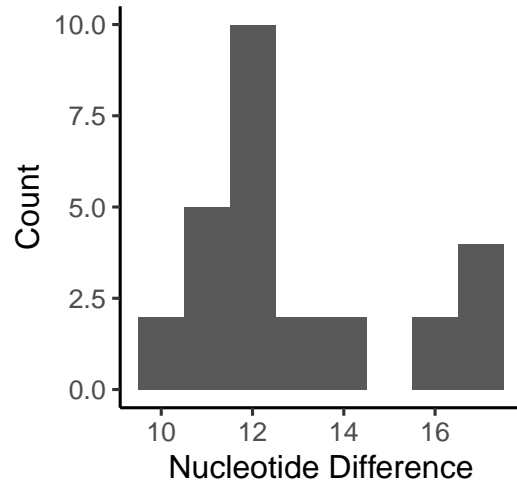
IGHV1-45*01

26 sequences assigned
No exact matches.



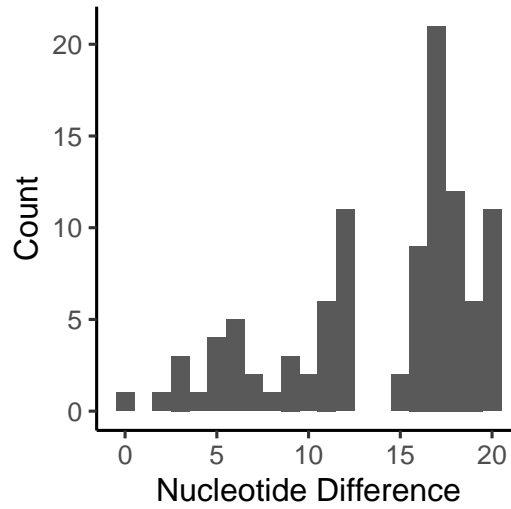
IGHV1-45*02

33 sequences assigned
No exact matches.



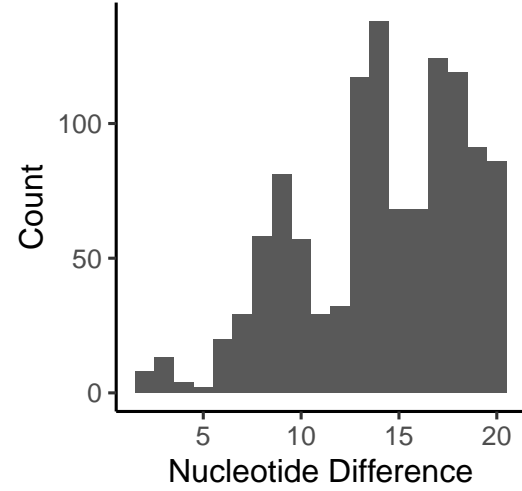
IGHV1-58*01_03

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



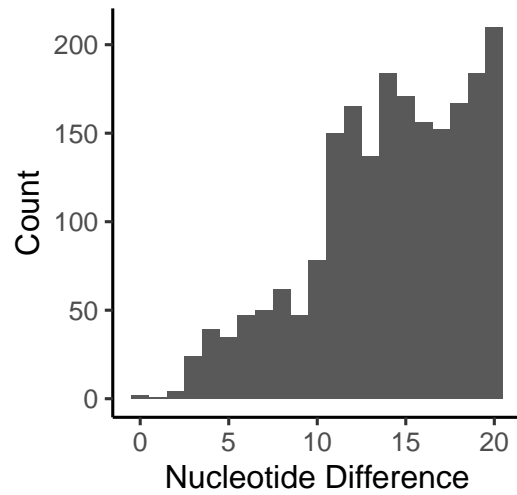
IGHV1-69*06_14

2852 sequences assigned
No exact matches.



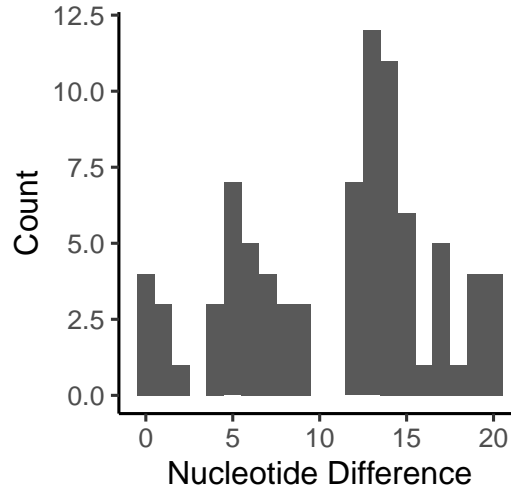
IGHV1-46*01

3506 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



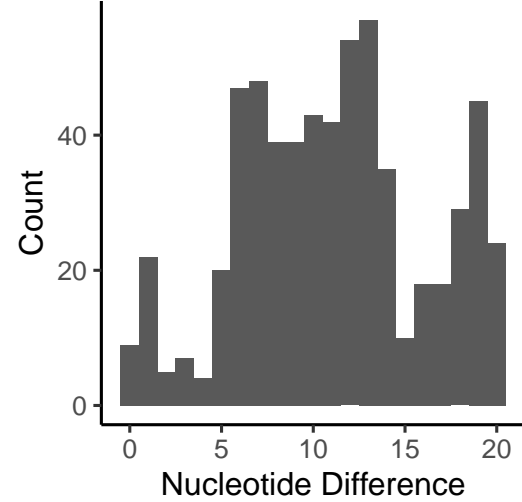
IGHV1-69-2*01

118 sequences assigned
4 (3.4%) exact matches, in which:
3 unique CDR3
1 unique J



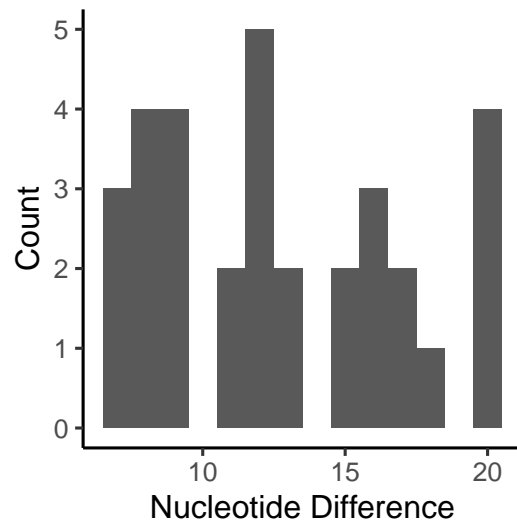
IGHV2-5*01

740 sequences assigned
9 (1.2%) exact matches, in which:
5 unique CDR3
2 unique J



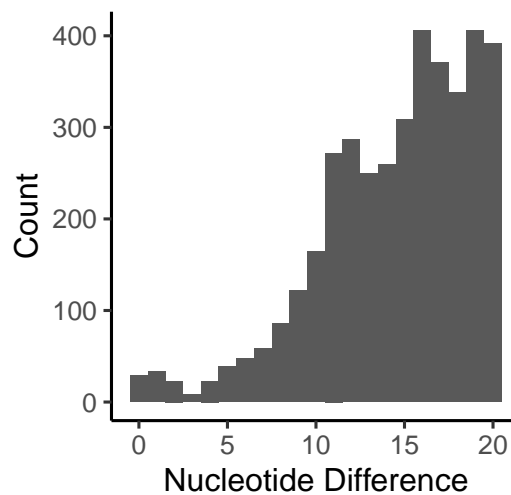
IGHV1-58*02

49 sequences assigned
No exact matches.



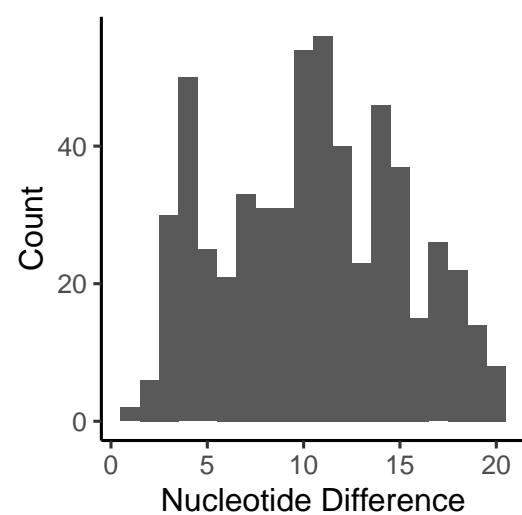
IGHV1-69*01_12_13

7679 sequences assigned
29 (0.4%) exact matches, in which:
24 unique CDR3
3 unique J



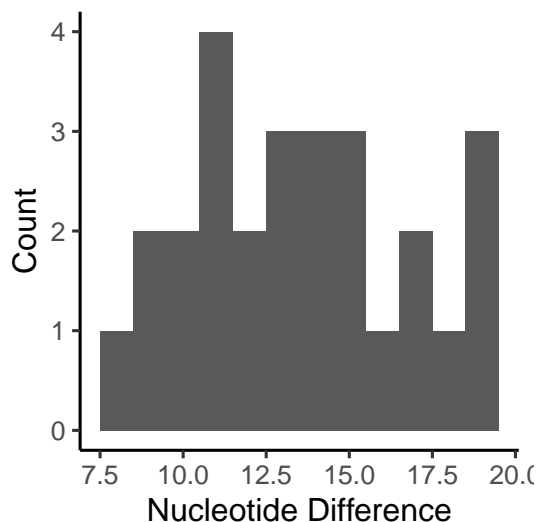
IGHV2-5*02

904 sequences assigned
No exact matches.



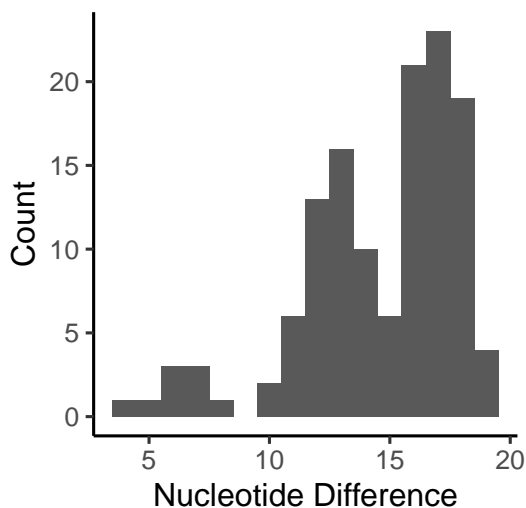
IGHV2-26*01

39 sequences assigned
No exact matches.



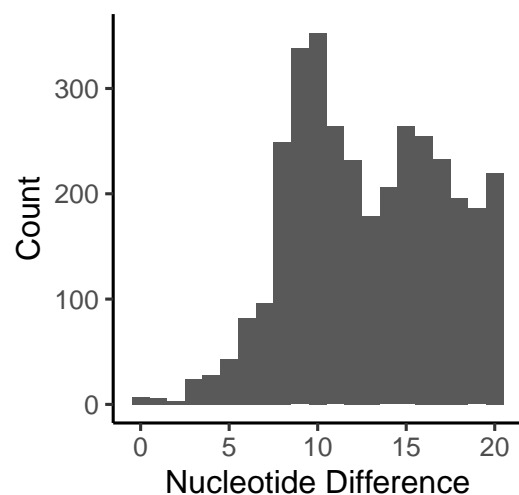
IGHV2-70*13

169 sequences assigned
No exact matches.



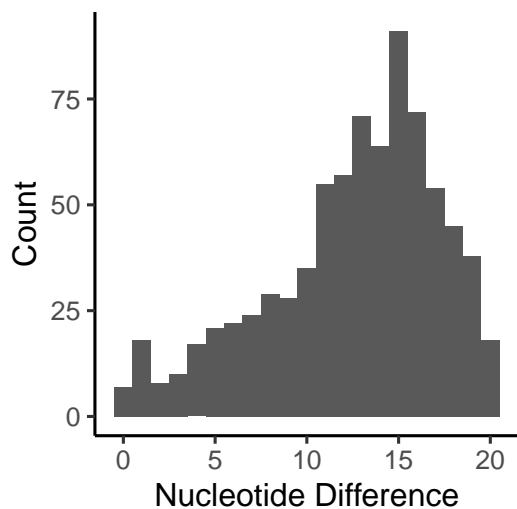
IGHV3-7*03

4754 sequences assigned
7 (0.1%) exact matches, in which:
6 unique CDR3
2 unique J



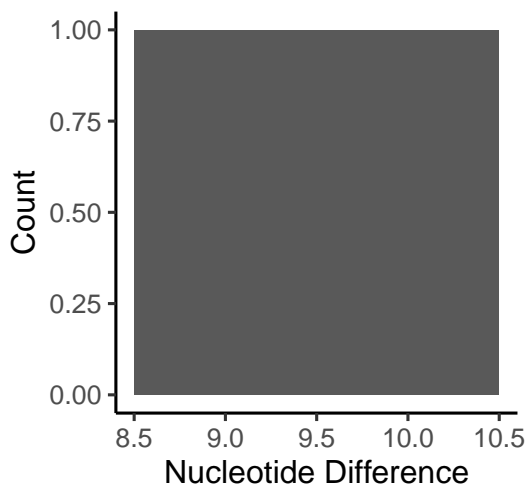
IGHV2-70*01

916 sequences assigned
7 (0.8%) exact matches, in which:
7 unique CDR3
2 unique J



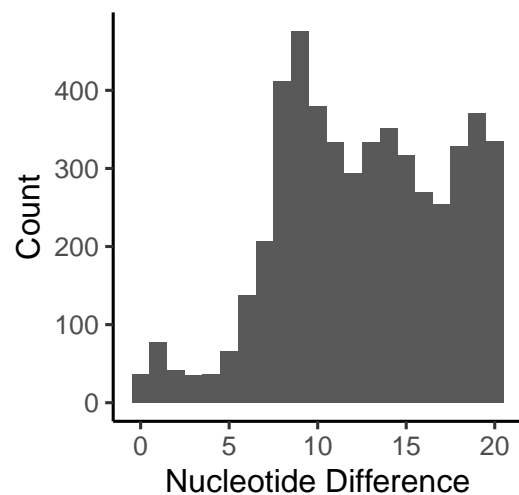
IGHV2-70D*14

2 sequences assigned
No exact matches.



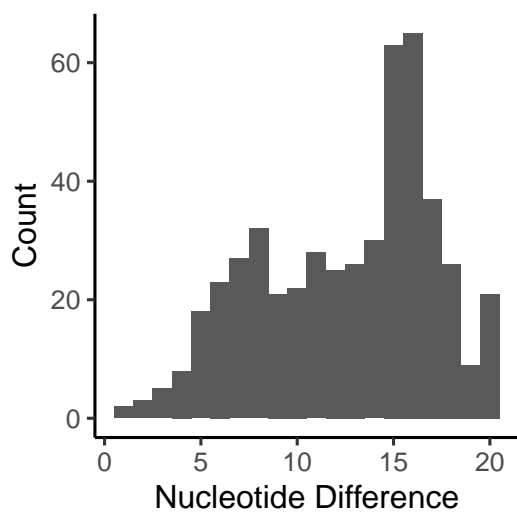
IGHV3-9*01

6485 sequences assigned
36 (0.6%) exact matches, in which:
24 unique CDR3
4 unique J



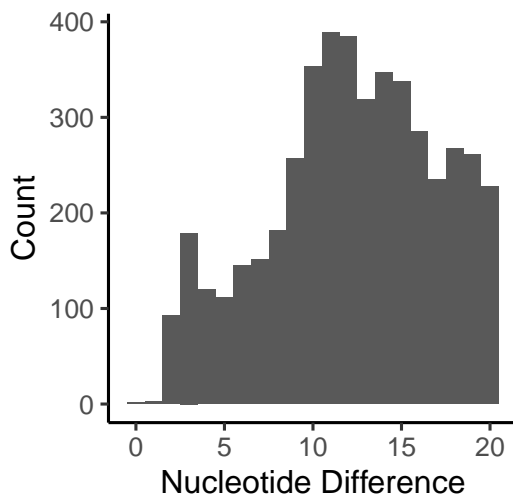
IGHV2-70*04

620 sequences assigned
No exact matches.



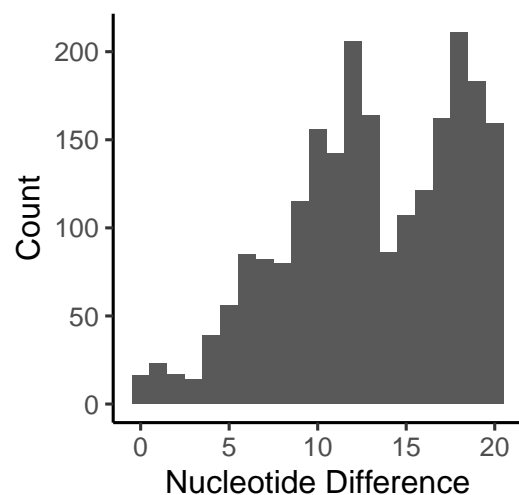
IGHV3-7*01

6124 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
2 unique J



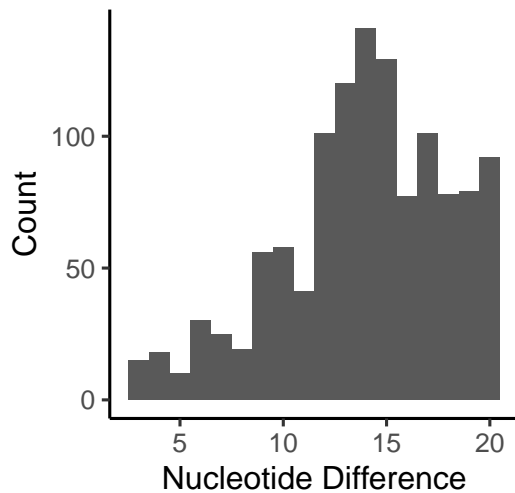
IGHV3-11*01

3313 sequences assigned
16 (0.5%) exact matches, in which:
11 unique CDR3
3 unique J



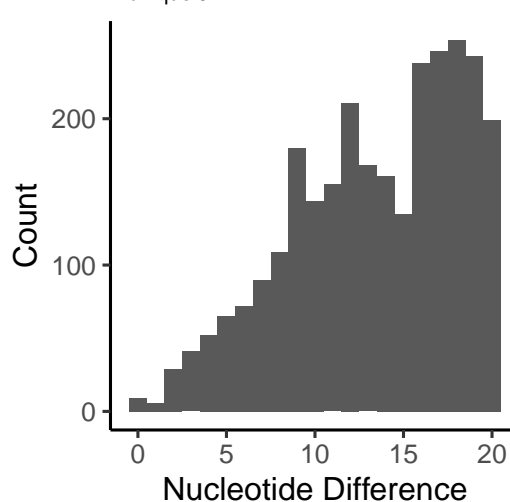
IGHV3-11*06

1674 sequences assigned
No exact matches.



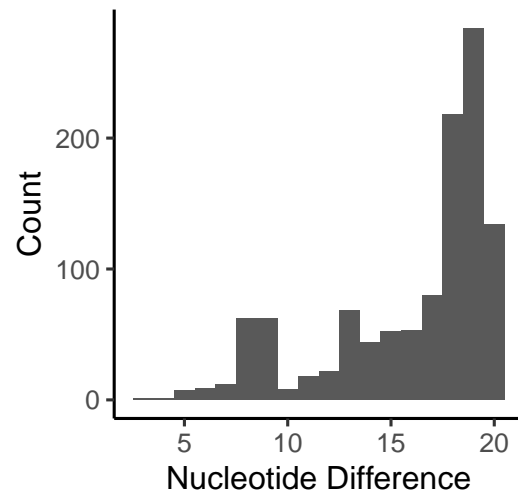
IGHV3-15*01_02

4435 sequences assigned
9 (0.2%) exact matches, in which:
6 unique CDR3
4 unique J



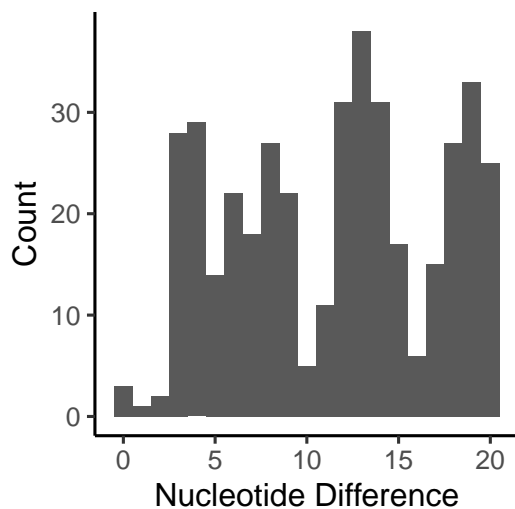
IGHV3-21*06

2040 sequences assigned
No exact matches.



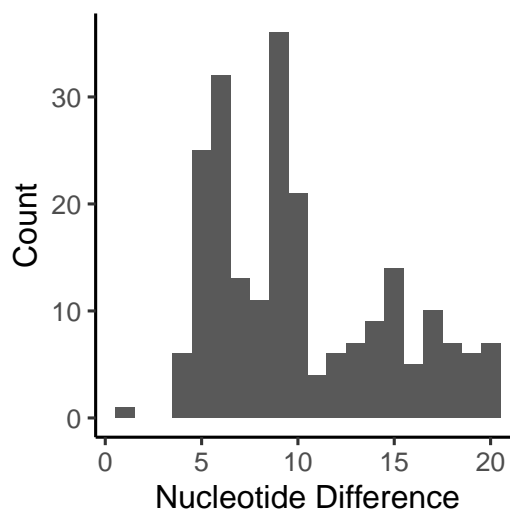
IGHV3-13*01

492 sequences assigned
3 (0.6%) exact matches, in which:
2 unique CDR3
1 unique J



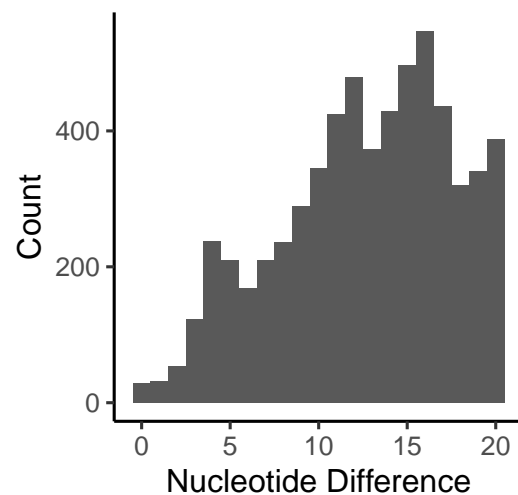
IGHV3-20*01_02

241 sequences assigned
No exact matches.



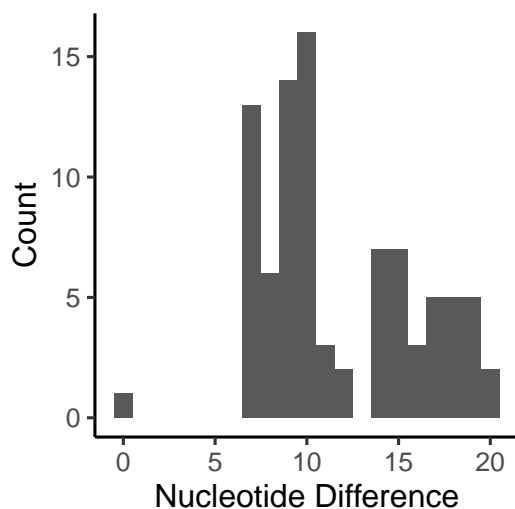
IGHV3-21*01_02

8919 sequences assigned
28 (0.3%) exact matches, in which:
21 unique CDR3
5 unique J



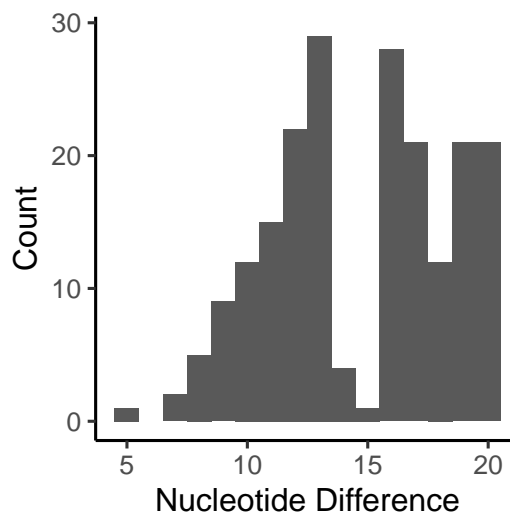
IGHV3-13*05

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



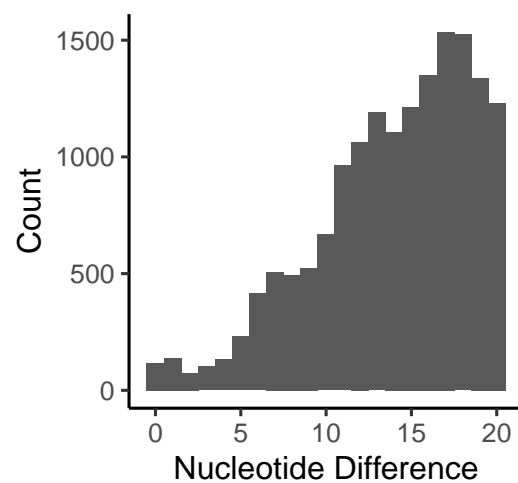
IGHV3-20*03_04

322 sequences assigned
No exact matches.



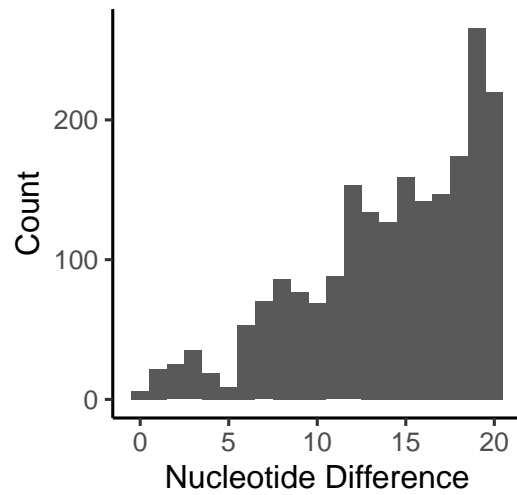
IGHV3-23*01_04

28338 sequences assigned
116 (0.4%) exact matches, in which:
80 unique CDR3
4 unique J



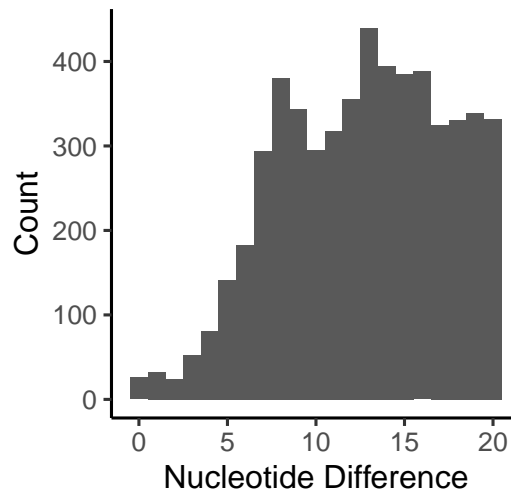
IGHV3-30-3*01

3497 sequences assigned
6 (0.2%) exact matches, in which:
6 unique CDR3
3 unique J



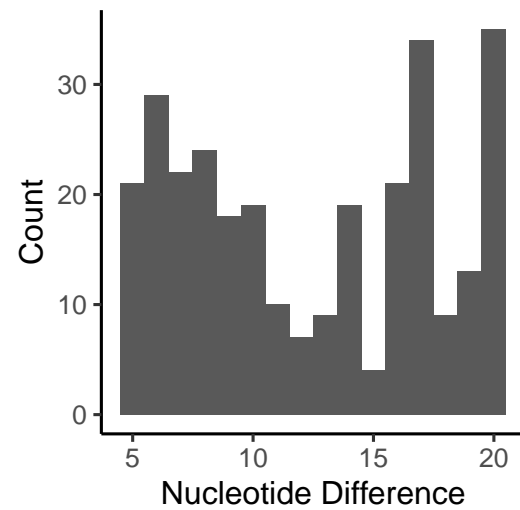
IGHV3-33*01

7480 sequences assigned
26 (0.3%) exact matches, in which:
15 unique CDR3
4 unique J



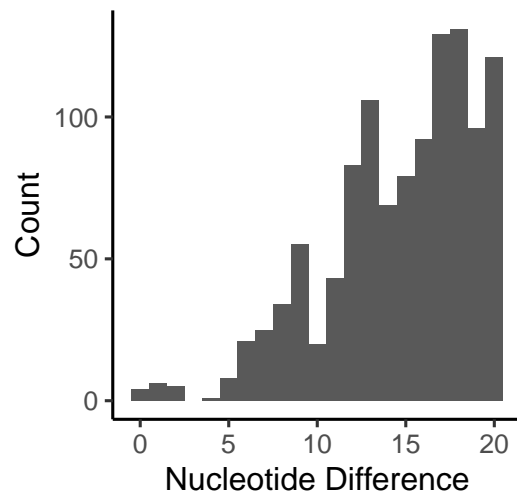
IGHV3-43*01

450 sequences assigned
No exact matches.



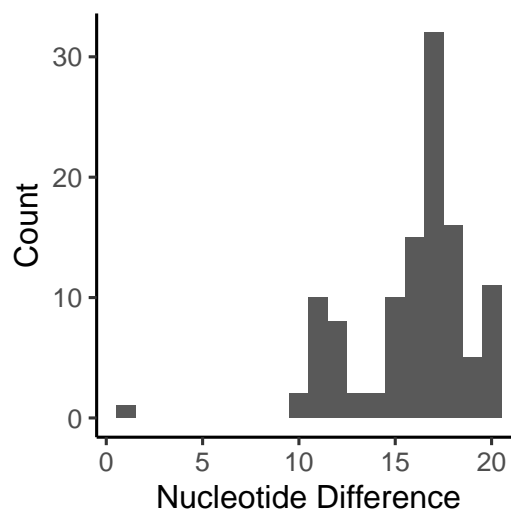
IGHV3-30*03

1818 sequences assigned
4 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



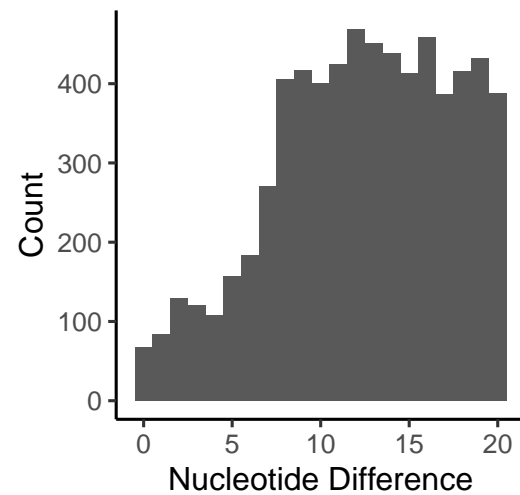
IGHV3-33*05

239 sequences assigned
No exact matches.



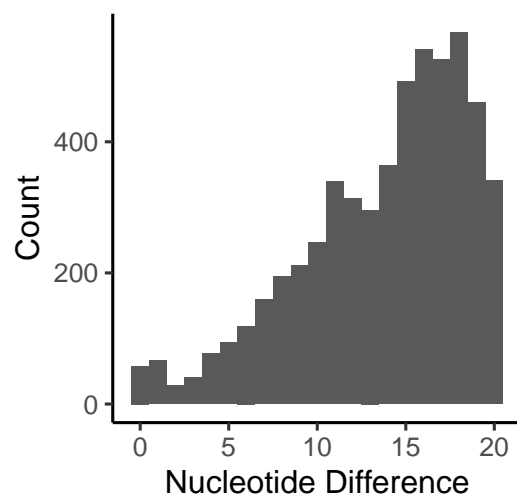
IGHV3-48*03

9411 sequences assigned
67 (0.7%) exact matches, in which:
48 unique CDR3
6 unique J



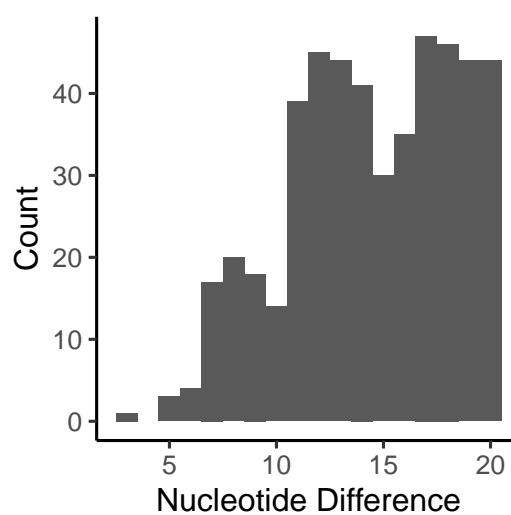
IGHV3-30*18

8780 sequences assigned
58 (0.7%) exact matches, in which:
42 unique CDR3
2 unique J



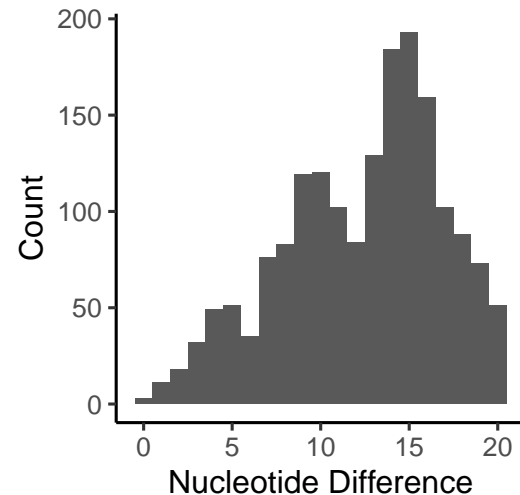
IGHV3-33*06

725 sequences assigned
No exact matches.



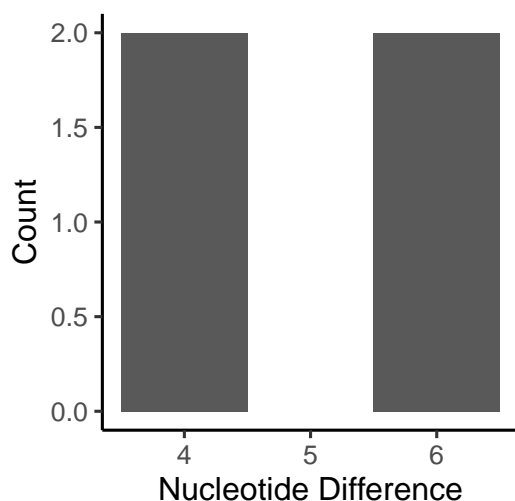
IGHV3-49*04

2439 sequences assigned
3 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



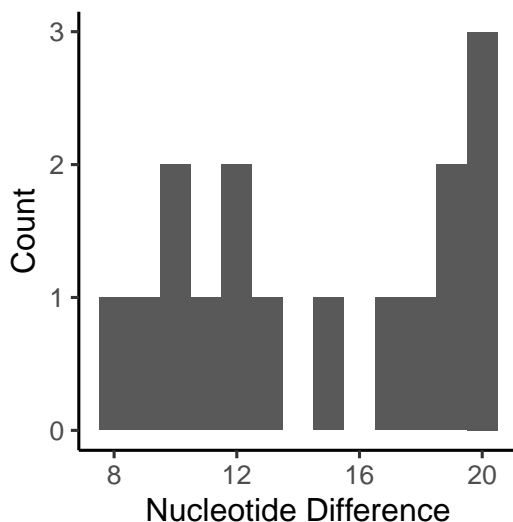
IGHV3-52*01_03

4 sequences assigned
No exact matches.



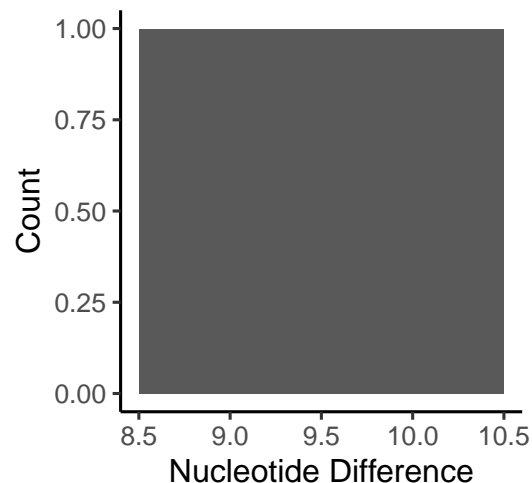
IGHV3-64*04

82 sequences assigned
No exact matches.



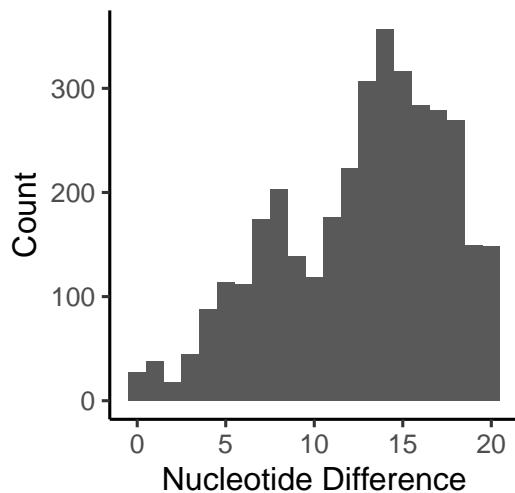
IGHV3-66*02

7 sequences assigned
No exact matches.



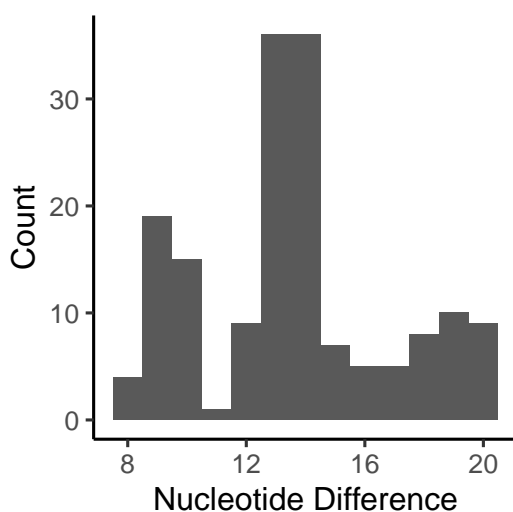
IGHV3-53*01_02

6249 sequences assigned
27 (0.4%) exact matches, in which:
20 unique CDR3
2 unique J



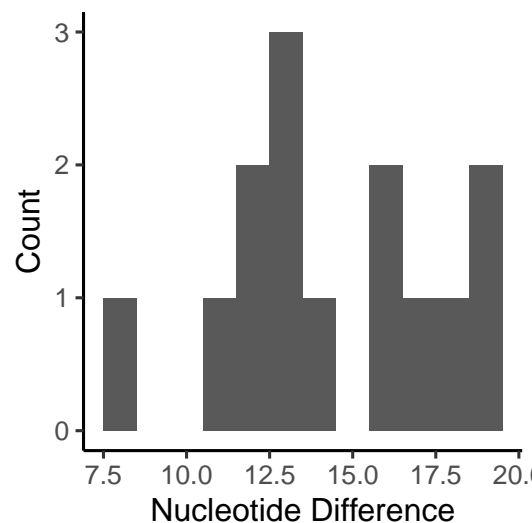
IGHV3-64*02_07

276 sequences assigned
No exact matches.



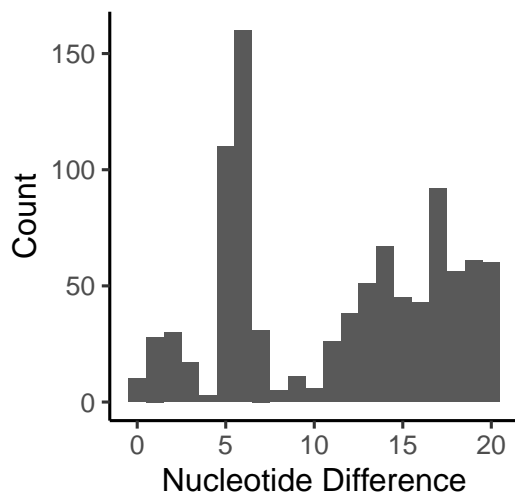
IGHV3-66*03

21 sequences assigned
No exact matches.



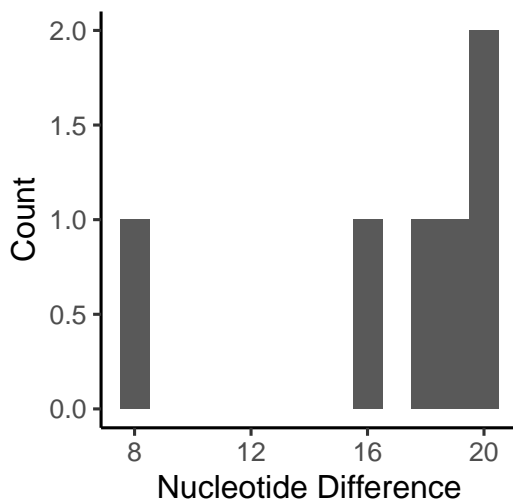
IGHV3-64*01

1099 sequences assigned
10 (0.9%) exact matches, in which:
7 unique CDR3
1 unique J



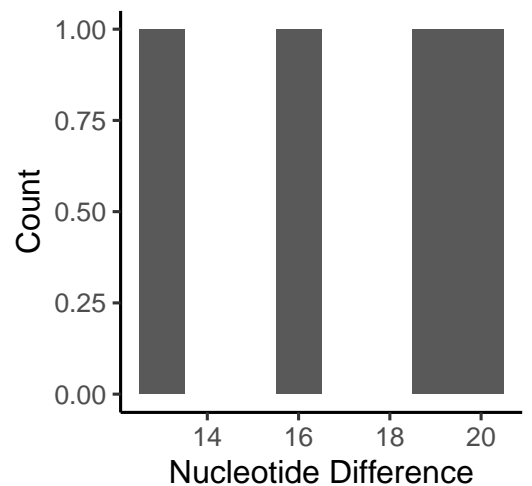
IGHV3-66*01

21 sequences assigned
No exact matches.



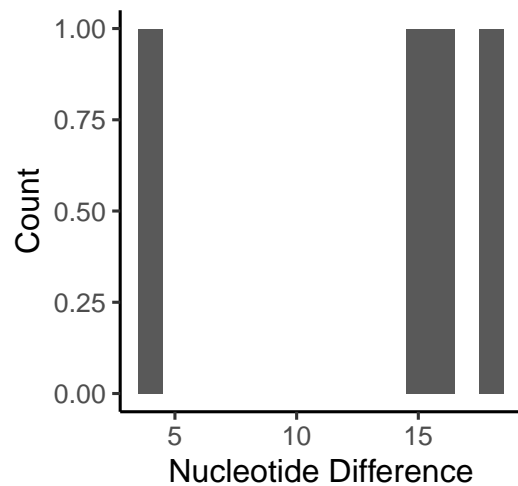
IGHV3-66*04

42 sequences assigned
No exact matches.



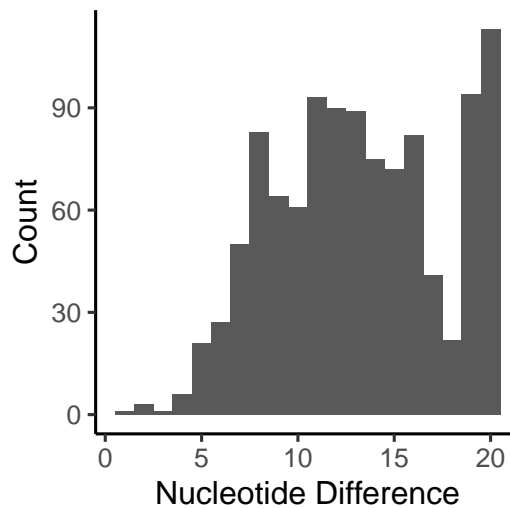
IGHV3-69-1*01

14 sequences assigned
No exact matches.



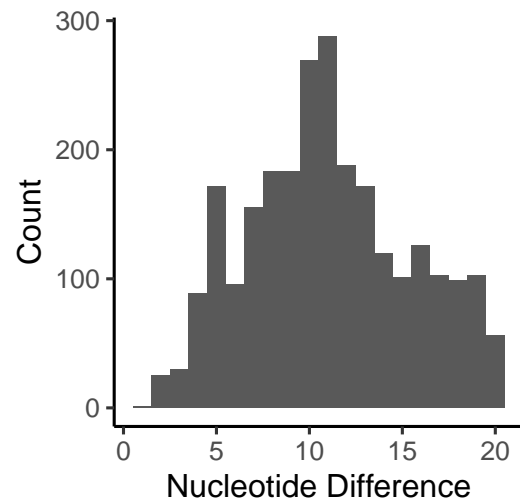
IGHV3-72*01

1275 sequences assigned
No exact matches.



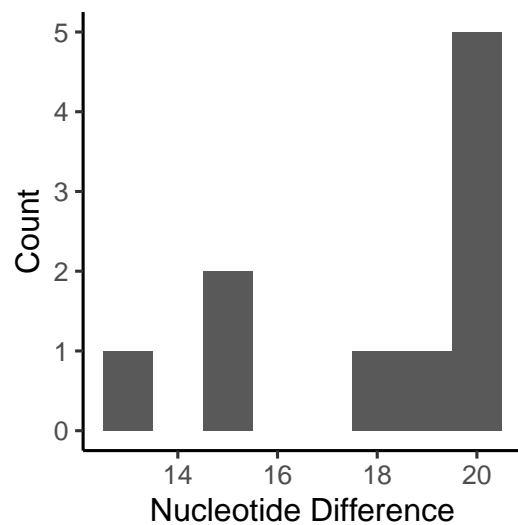
IGHV3-74*01_02

3319 sequences assigned
No exact matches.



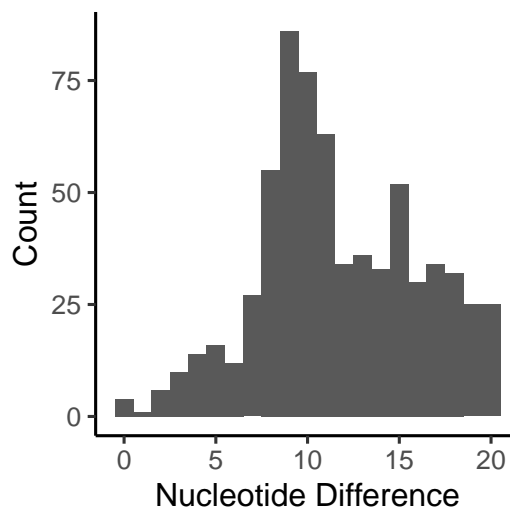
IGHV3-69-1*02

51 sequences assigned
No exact matches.



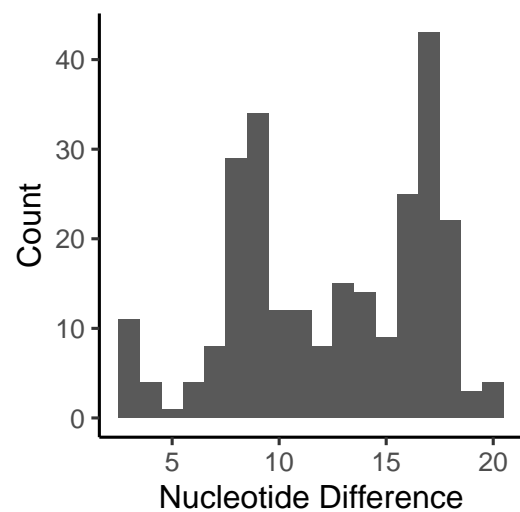
IGHV3-73*01_02

1332 sequences assigned
4 (0.3%) exact matches, in which:
3 unique CDR3
2 unique J



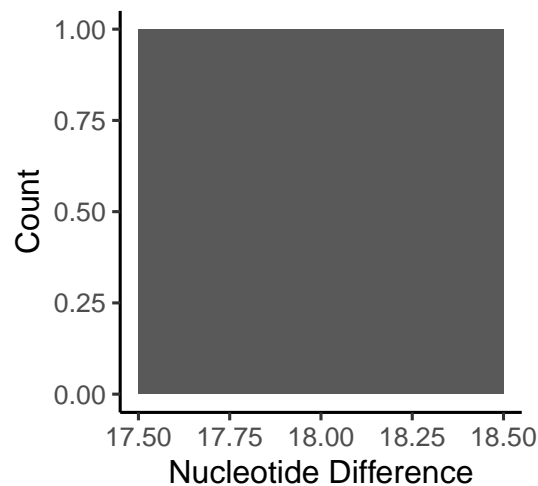
IGHV3-43D*04

324 sequences assigned
No exact matches.



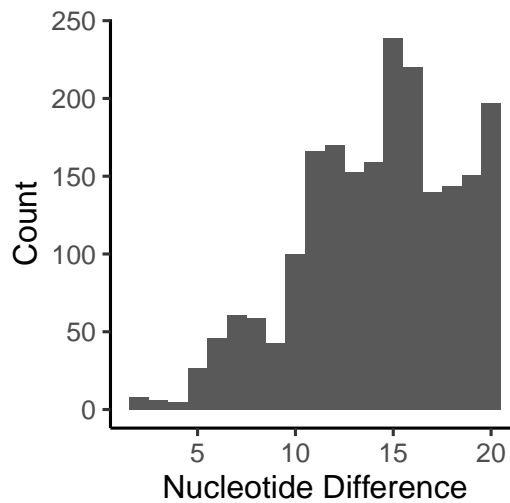
IGHV3-71*01_04

2 sequences assigned
No exact matches.



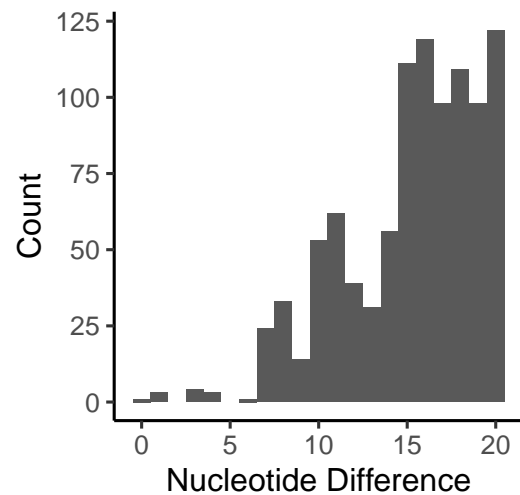
IGHV3-74*03

3455 sequences assigned
No exact matches.



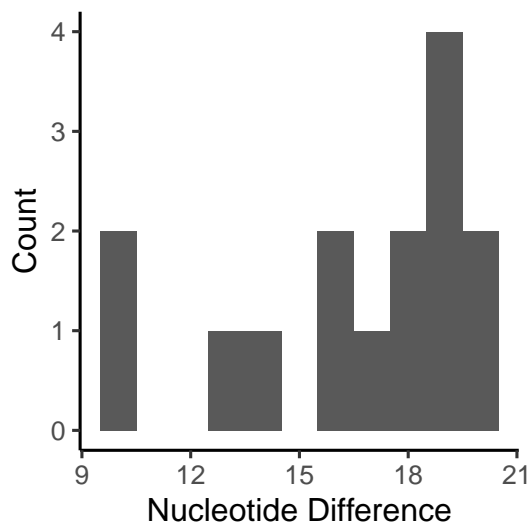
IGHV3-64D*09

1859 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



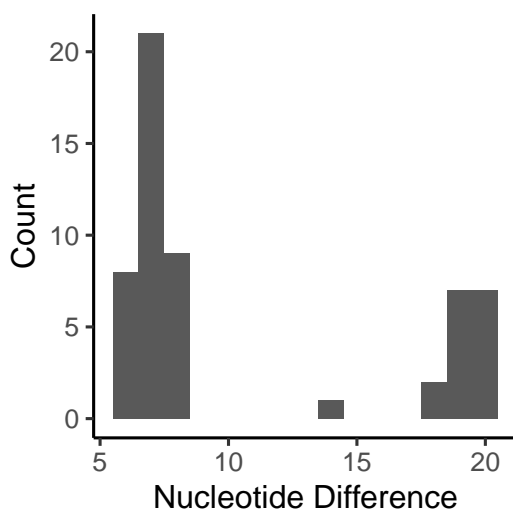
IGHV3–NL1*01

35 sequences assigned
No exact matches.



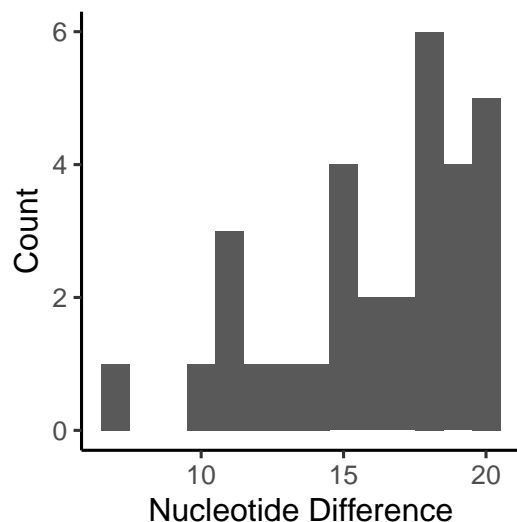
IGHV4–28*01_07

59 sequences assigned
No exact matches.



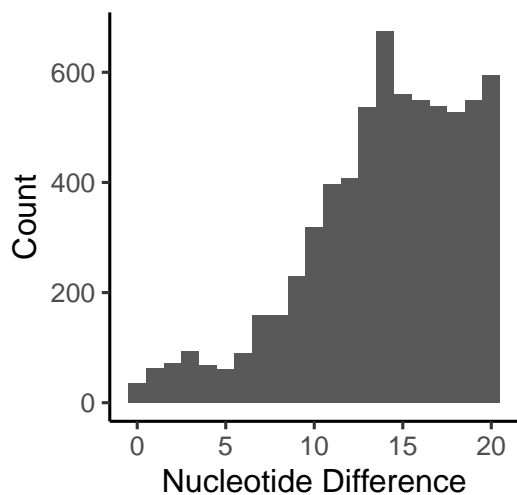
IGHV4–30–2*03

65 sequences assigned
No exact matches.



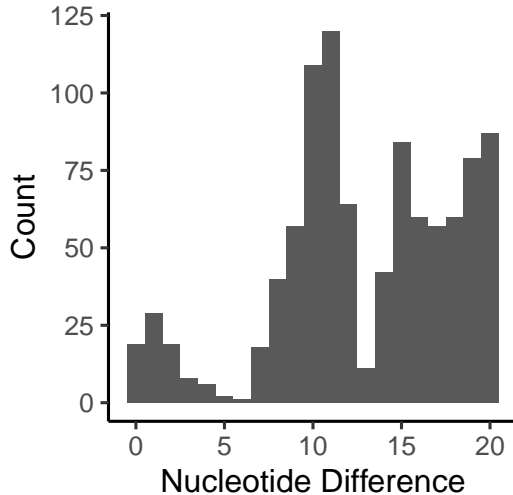
IGHV4–4*02_03

13279 sequences assigned
36 (0.3%) exact matches, in which:
24 unique CDR3
3 unique J



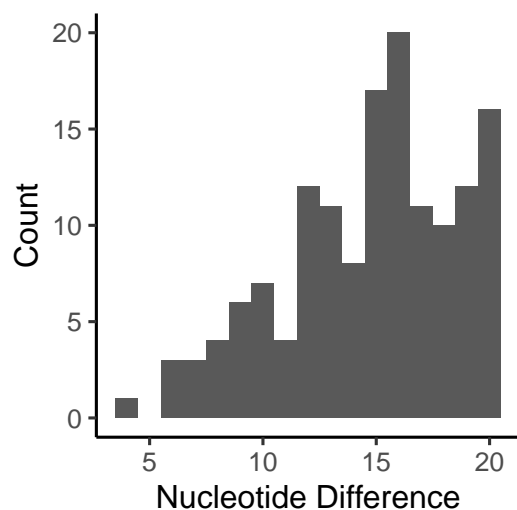
IGHV4–30–2*01

2227 sequences assigned
19 (0.9%) exact matches, in which:
13 unique CDR3
1 unique J



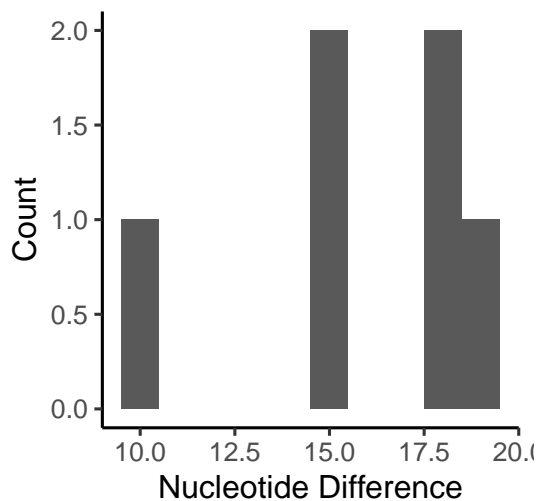
IGHV4–30–4*08

280 sequences assigned
No exact matches.



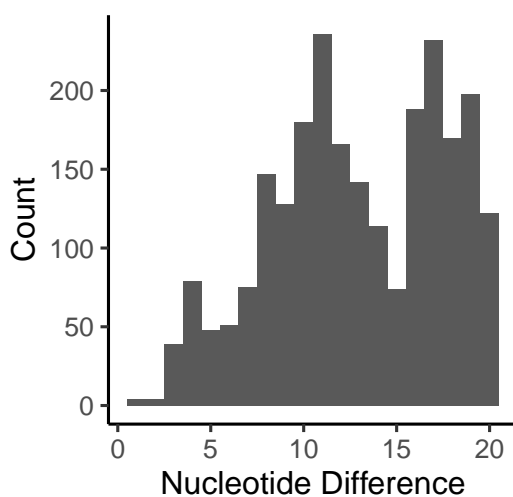
IGHV4–28*03

49 sequences assigned
No exact matches.



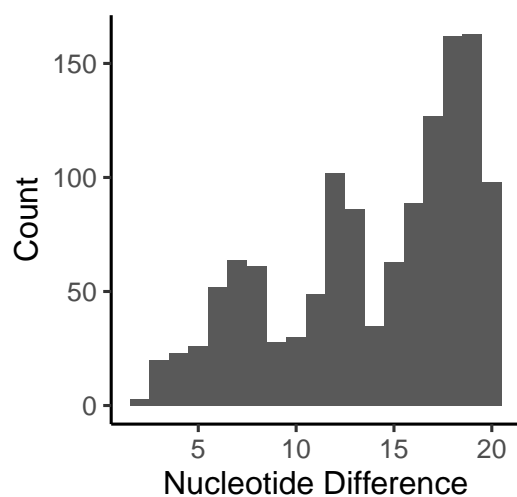
IGHV4–30–4*01

4262 sequences assigned
No exact matches.



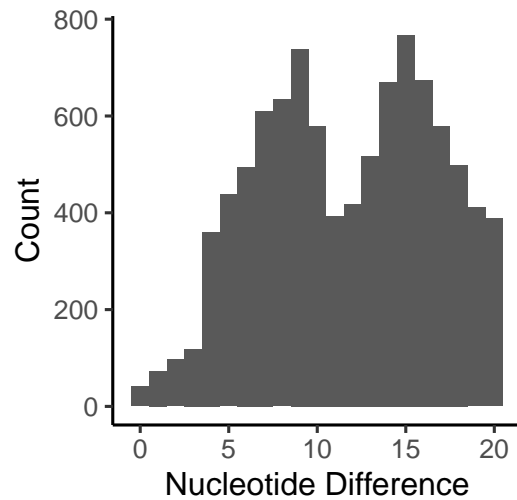
IGHV4–31*01

2199 sequences assigned
No exact matches.



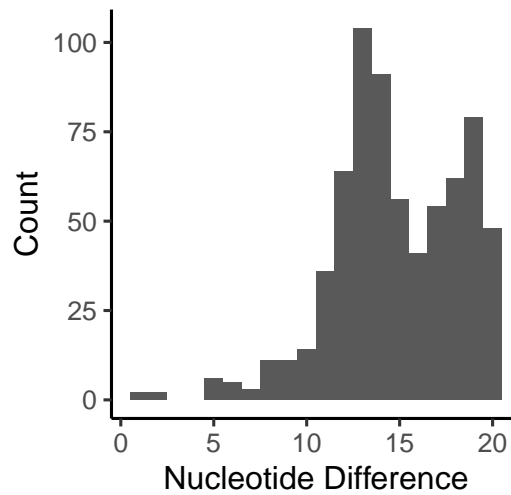
IGHV4-31*02

14103 sequences assigned
41 (0.3%) exact matches, in which:
34 unique CDR3
3 unique J



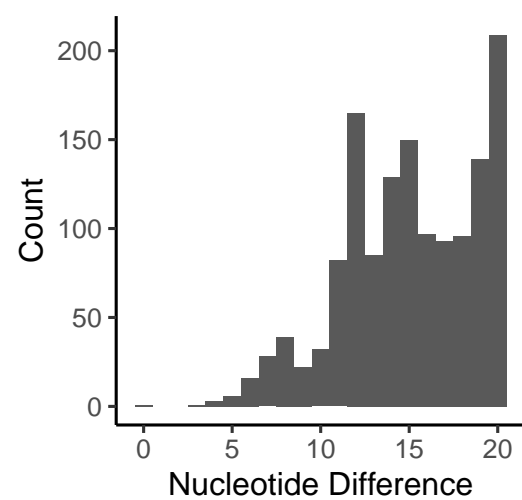
IGHV4-38-2*02

1387 sequences assigned
No exact matches.



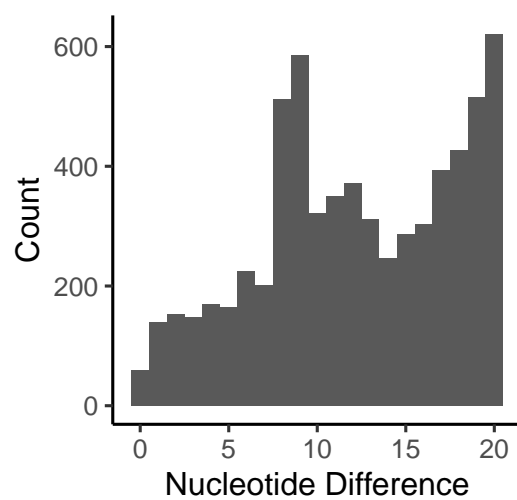
IGHV4-39*01_05

3033 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



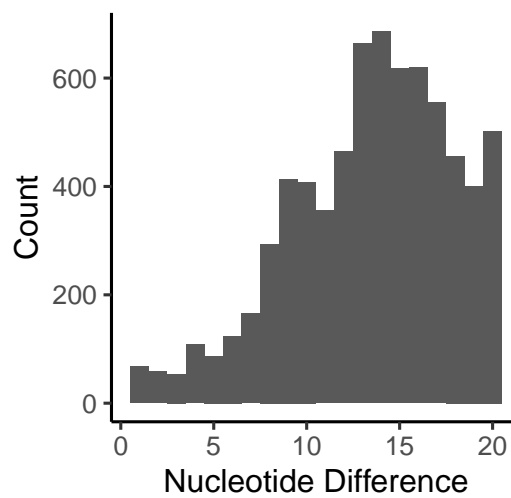
IGHV4-34*01_02

13569 sequences assigned
59 (0.4%) exact matches, in which:
42 unique CDR3
6 unique J



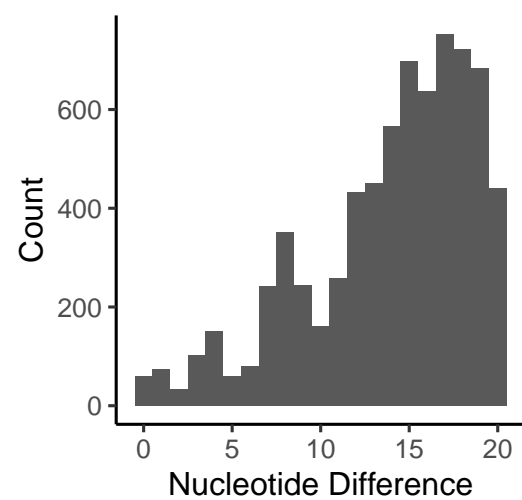
IGHV4-39*02

11288 sequences assigned
No exact matches.



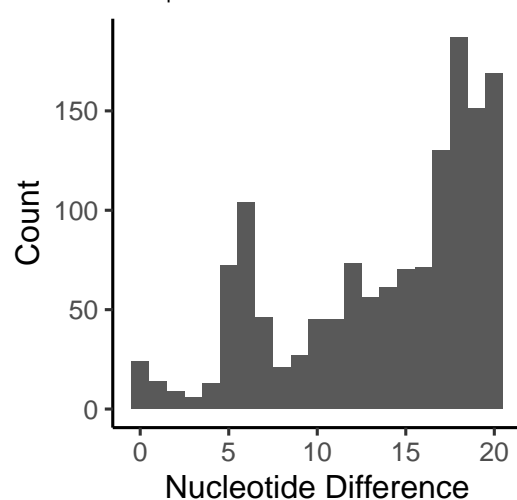
IGHV4-59*08

12271 sequences assigned
60 (0.5%) exact matches, in which:
37 unique CDR3
4 unique J



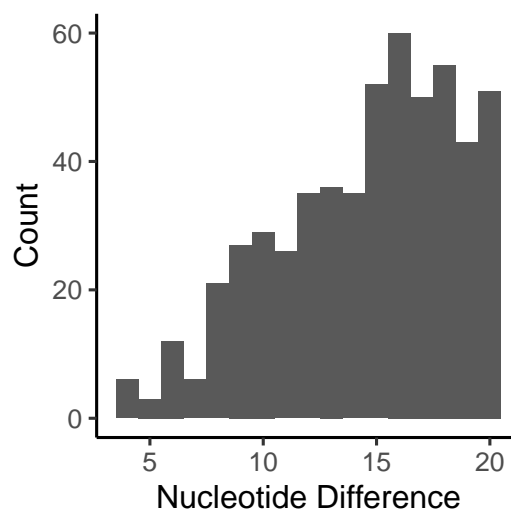
IGHV4-38-2*01

2447 sequences assigned
24 (1%) exact matches, in which:
14 unique CDR3
3 unique J



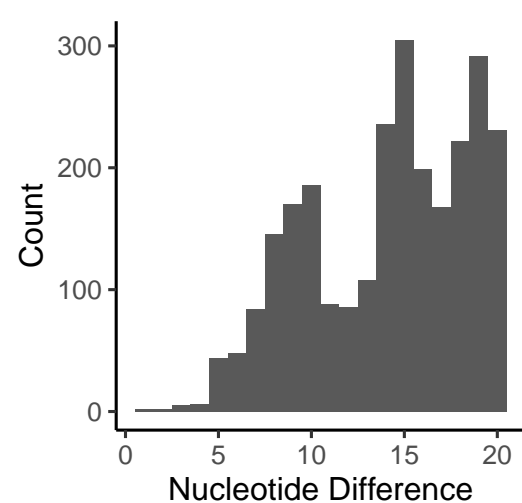
IGHV4-39*07

983 sequences assigned
No exact matches.



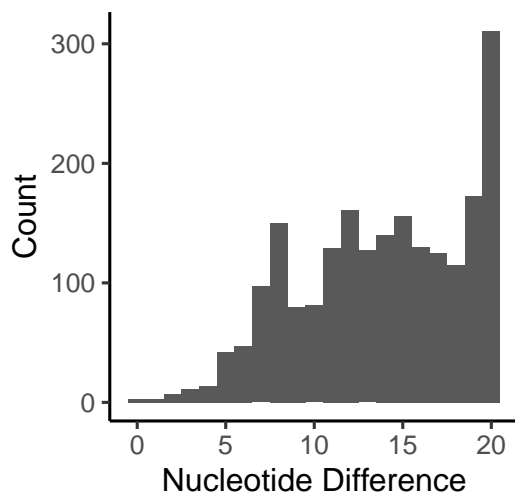
IGHV4-59*11

4981 sequences assigned
No exact matches.



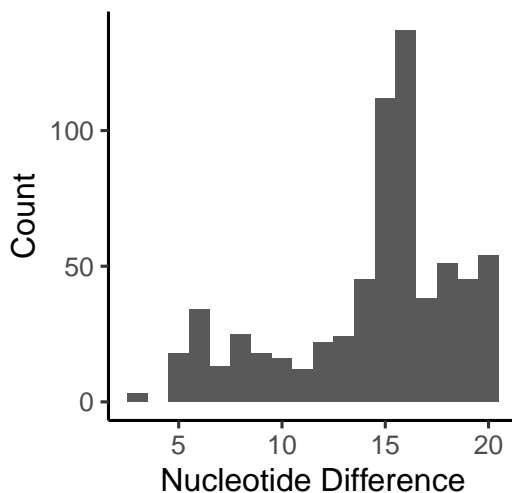
IGHV4–59*12

3838 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
2 unique J



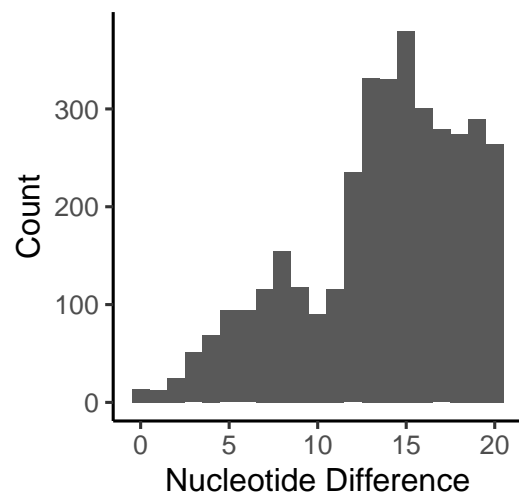
IGHV4–61*08

1363 sequences assigned
No exact matches.



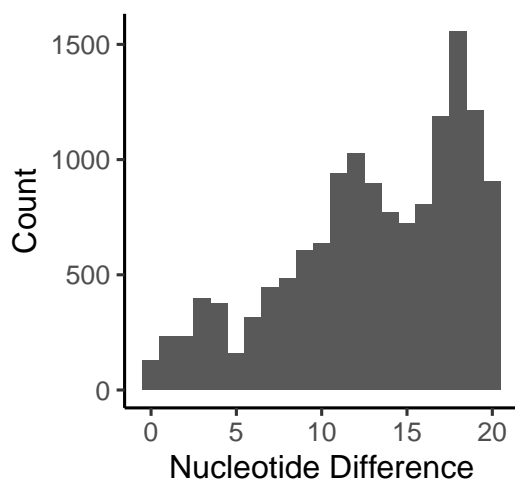
IGHV5–10–1*01_03

4948 sequences assigned
14 (0.3%) exact matches, in which:
11 unique CDR3
4 unique J



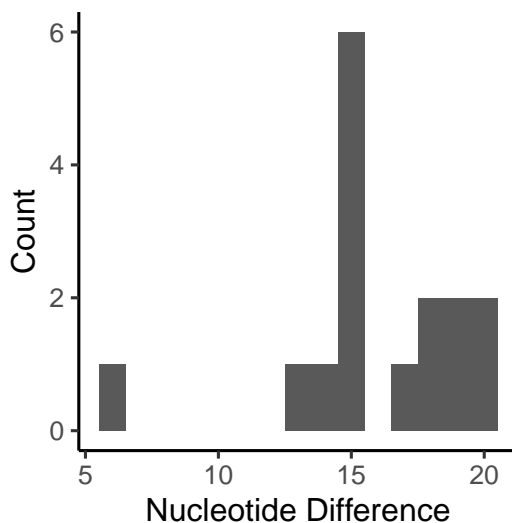
IGHV4–59*01_07

20344 sequences assigned
127 (0.6%) exact matches, in which:
90 unique CDR3
5 unique J



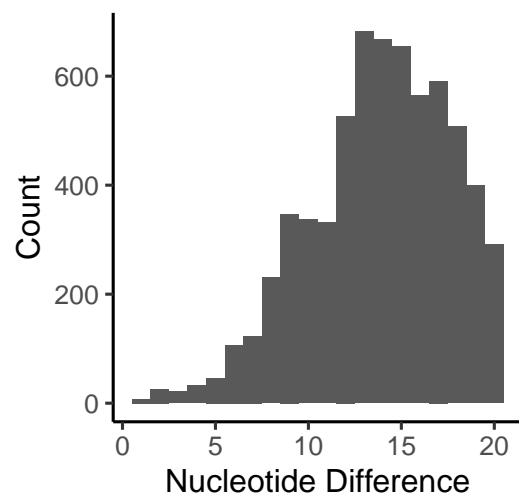
IGHV4/OR15–8*01

45 sequences assigned
No exact matches.



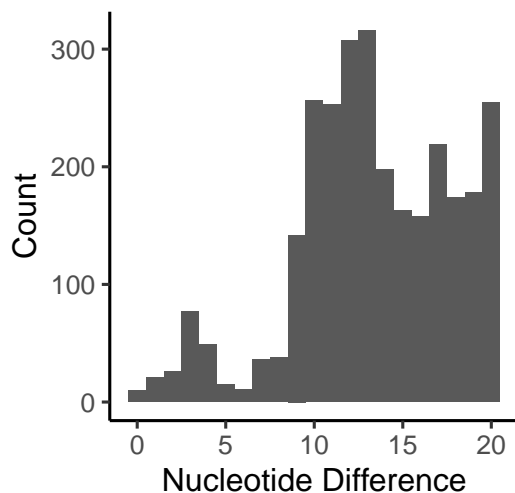
IGHV5–51*07

7840 sequences assigned
No exact matches.



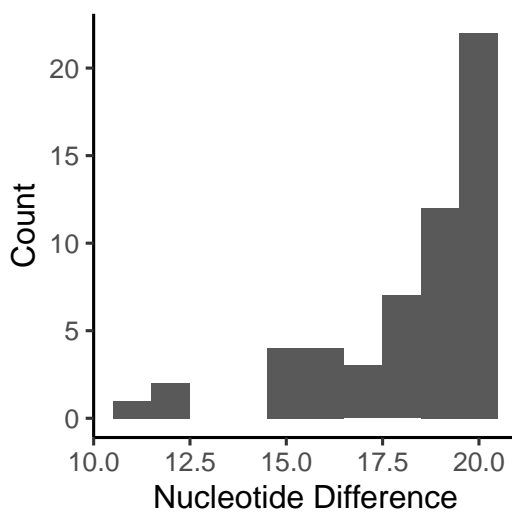
IGHV4–61*01

4236 sequences assigned
10 (0.2%) exact matches, in which:
6 unique CDR3
2 unique J



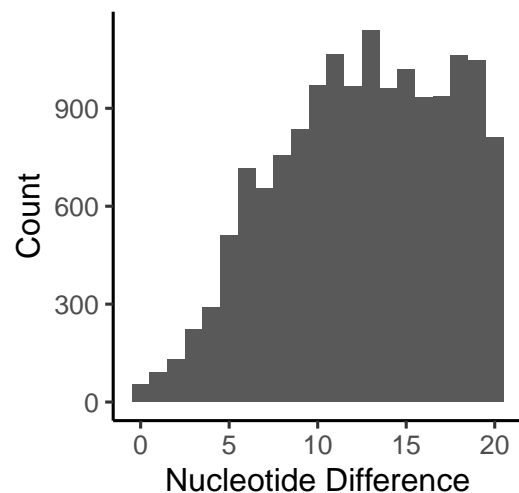
IGHV4/OR15–8*02

122 sequences assigned
No exact matches.



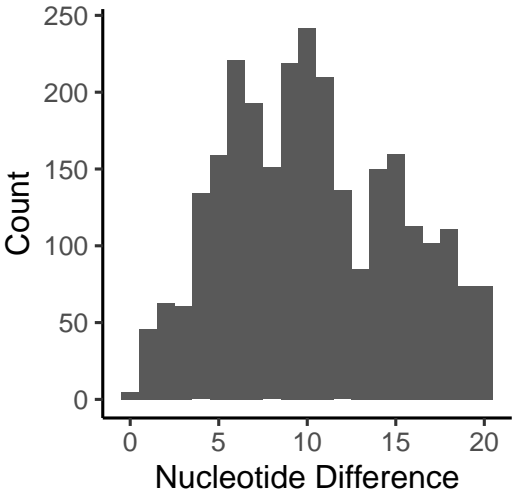
IGHV5–51*01_03

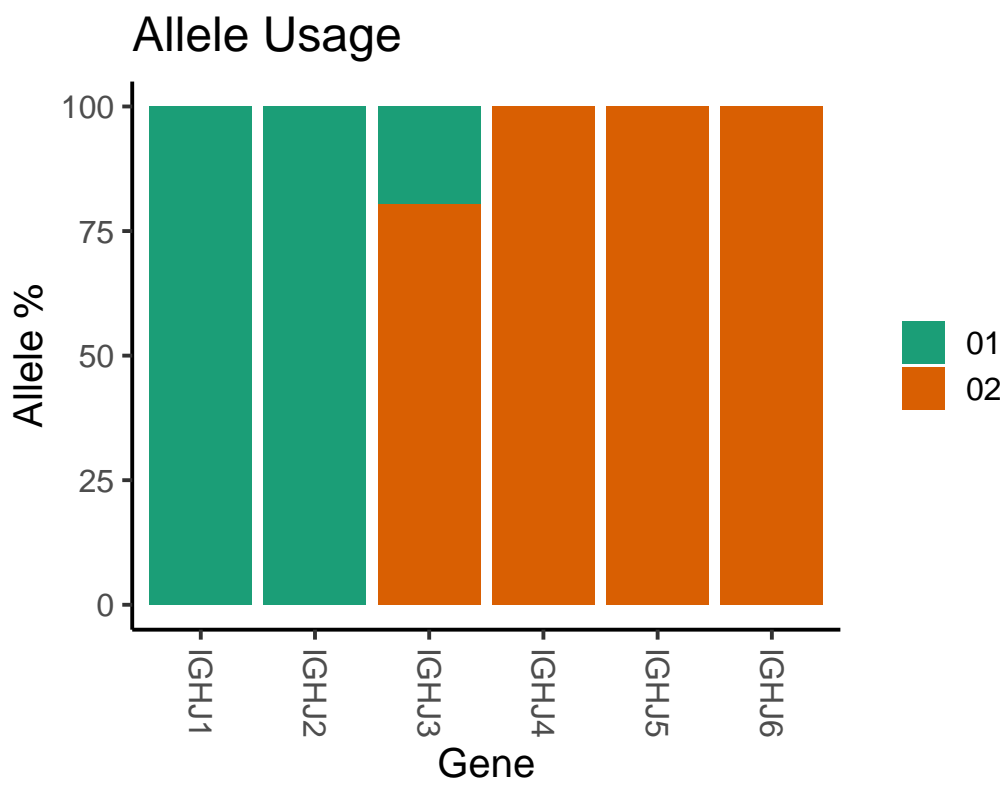
20747 sequences assigned
53 (0.3%) exact matches, in which:
38 unique CDR3
3 unique J



IGHV6-1*01_02

3340 sequences assigned
5 (0.1%) exact matches, in which:
4 unique CDR3
2 unique J





Warning – no inferred sequences found.