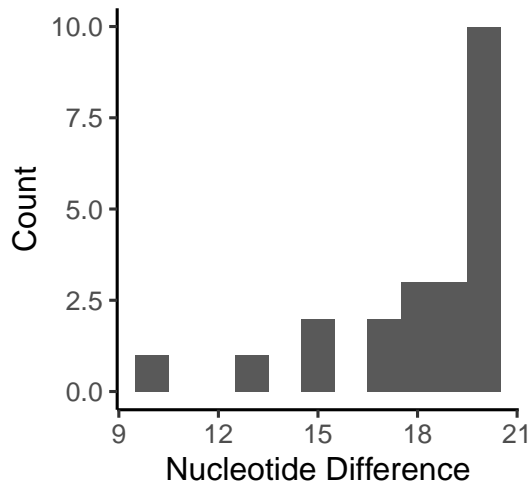


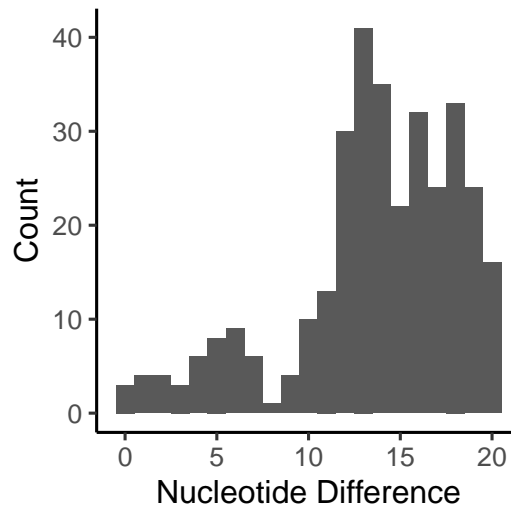
IGHV1-2*02

117 sequences assigned
No exact matches.



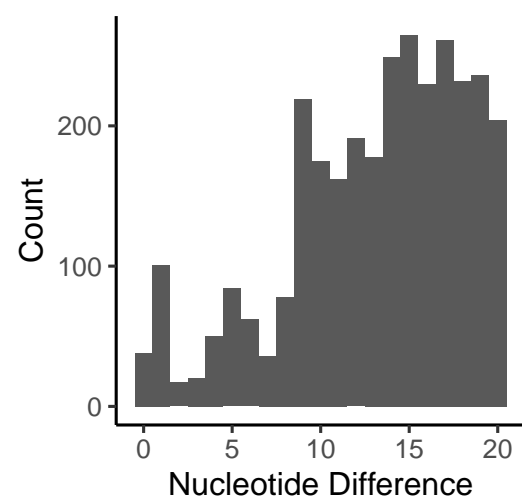
IGHV1-3*01_05

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



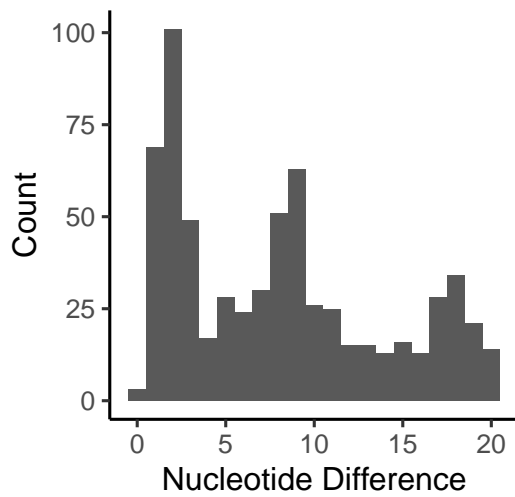
IGHV1-18*04

4586 sequences assigned
38 (0.8%) exact matches, in which:
23 unique CDR3
3 unique J



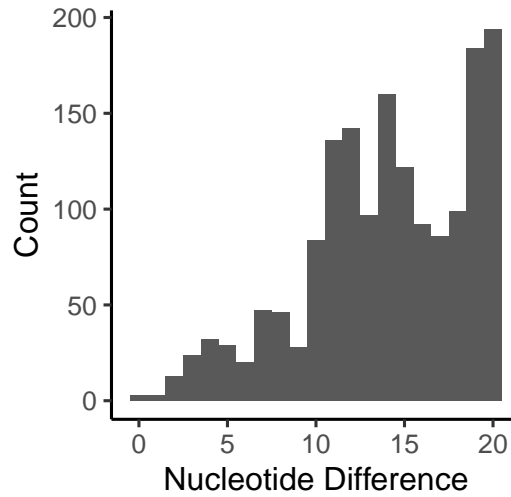
IGHV1-2*04

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



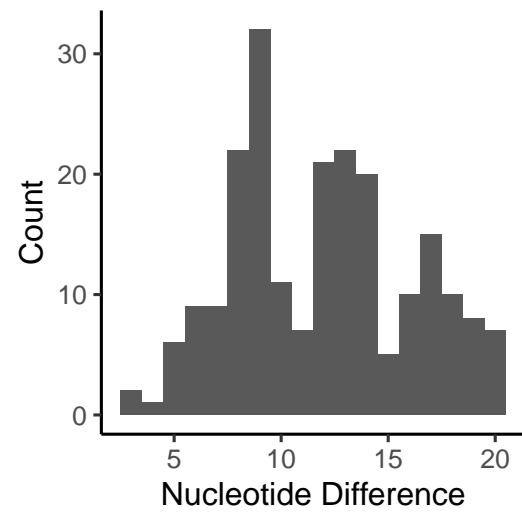
IGHV1-8*01

2404 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
1 unique J



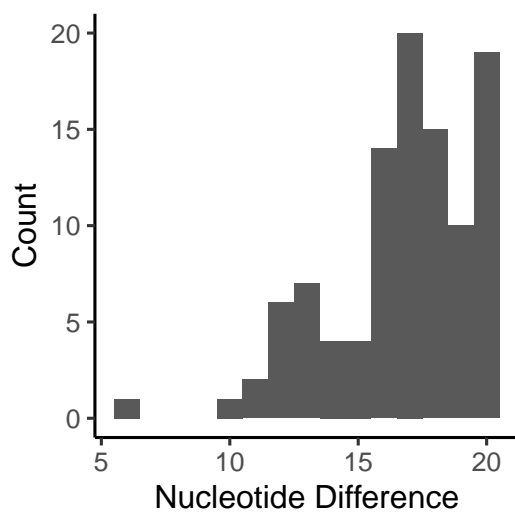
IGHV1-24*01

268 sequences assigned
No exact matches.



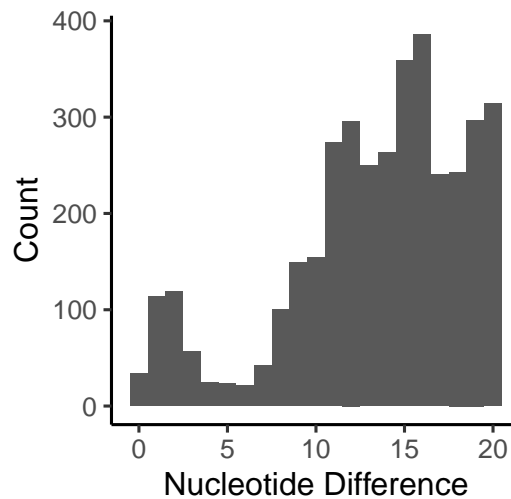
IGHV1-3*04

220 sequences assigned
No exact matches.



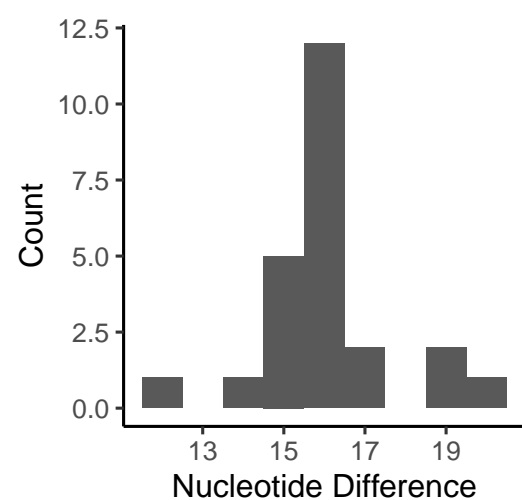
IGHV1-18*01

6640 sequences assigned
34 (0.5%) exact matches, in which:
24 unique CDR3
3 unique J



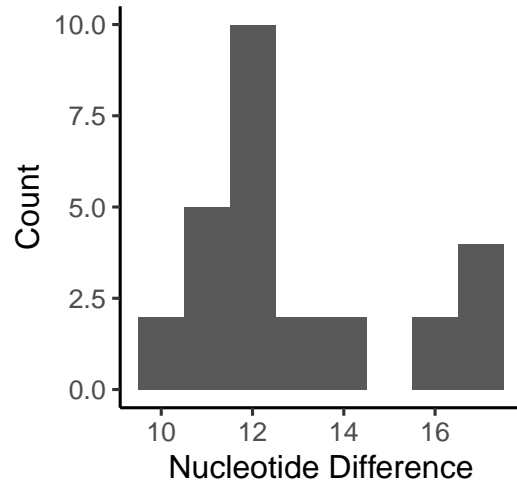
IGHV1-45*01

26 sequences assigned
No exact matches.



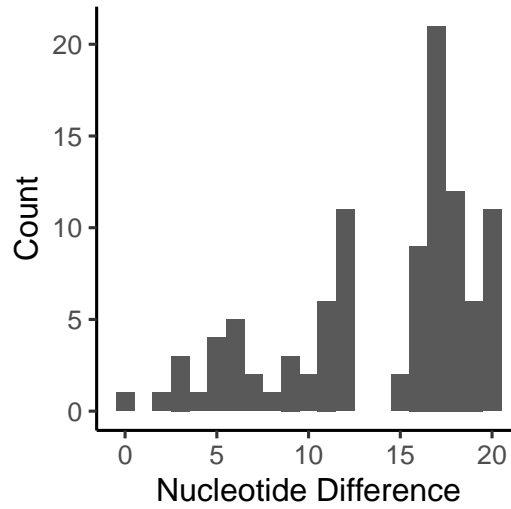
IGHV1-45*02

33 sequences assigned
No exact matches.



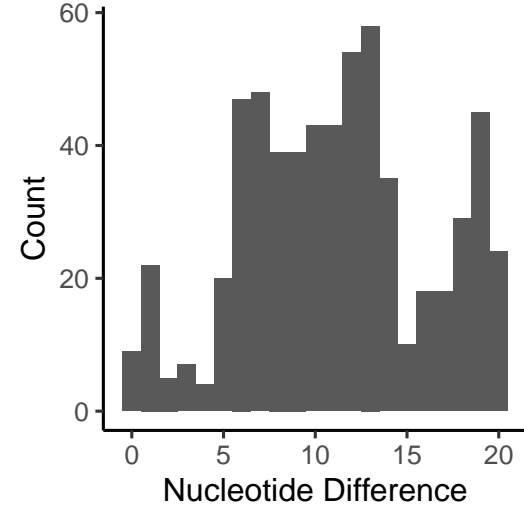
IGHV1-58*01_03

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



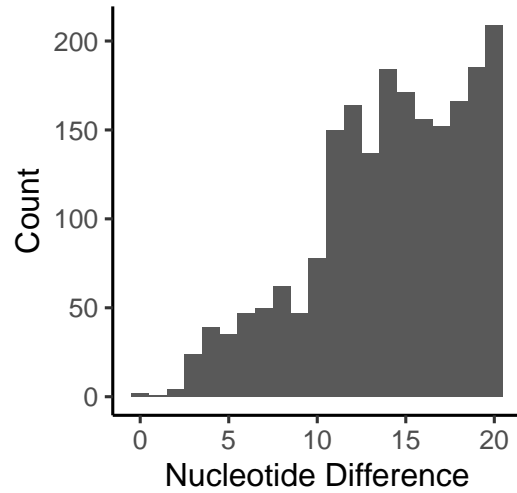
IGHV2-5*01

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



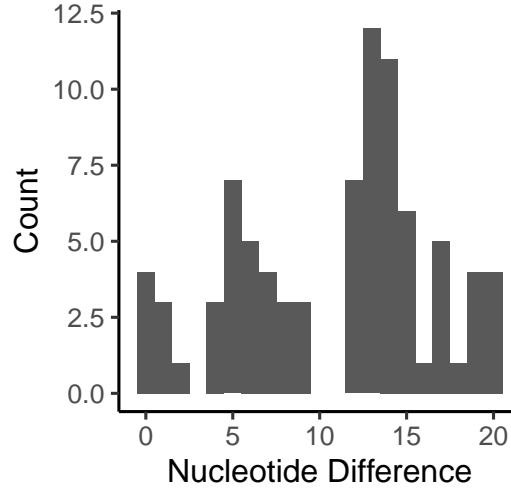
IGHV1-46*01

3505 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



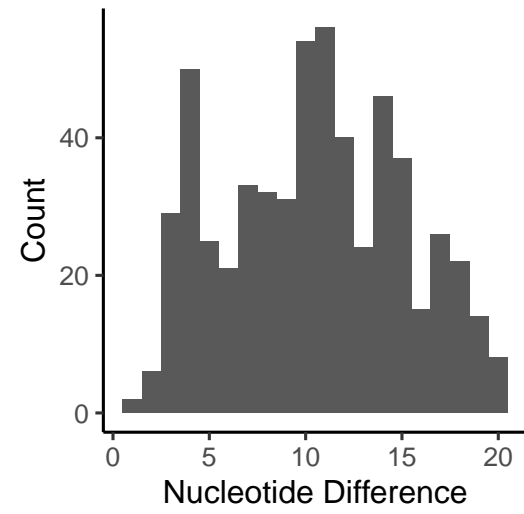
IGHV1-69-2*01

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



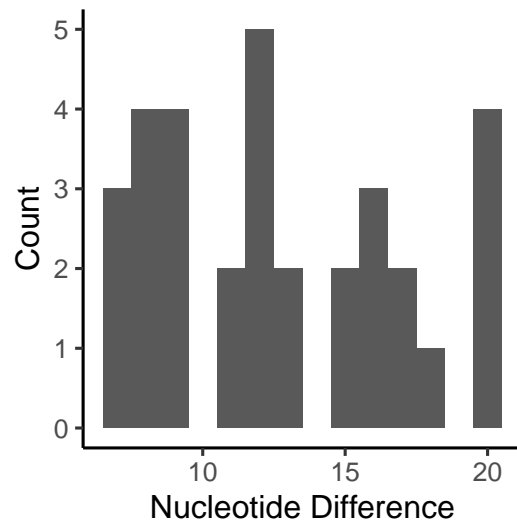
IGHV2-5*02

895 sequences assigned
No exact matches.



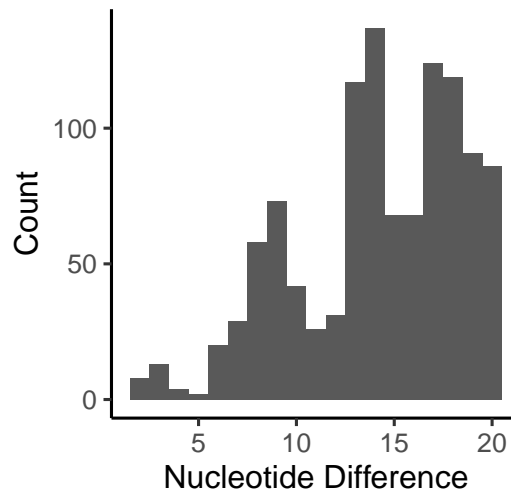
IGHV1-58*02

49 sequences assigned
No exact matches.



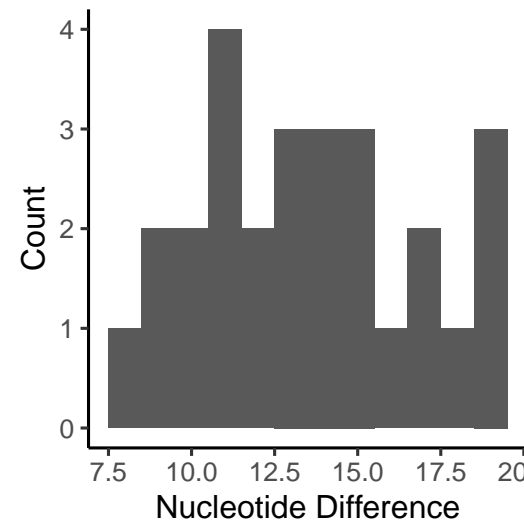
IGHV1-69*06_14

2825 sequences assigned
No exact matches.



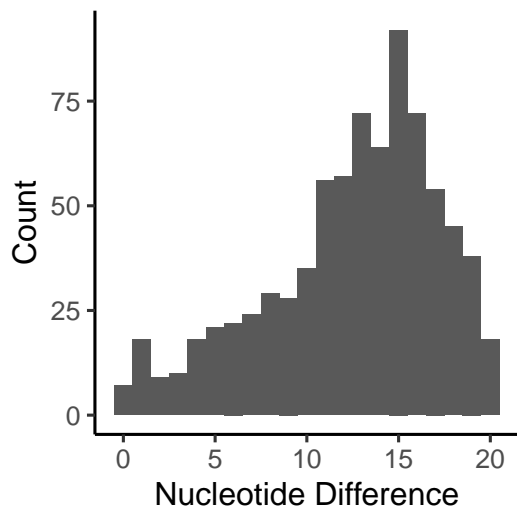
IGHV2-26*01

39 sequences assigned
No exact matches.



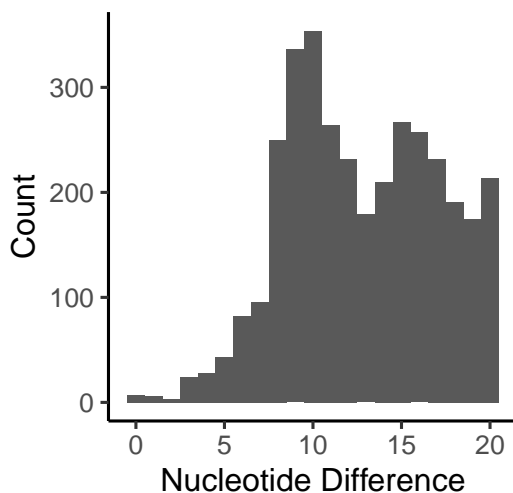
IGHV2-70*01

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



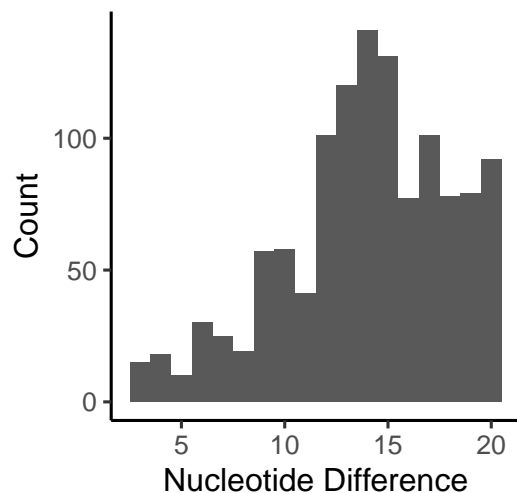
IGHV3-7*03

4730 sequences assigned
7 (0.1%) exact matches, in which:
6 unique CDR3
2 unique J



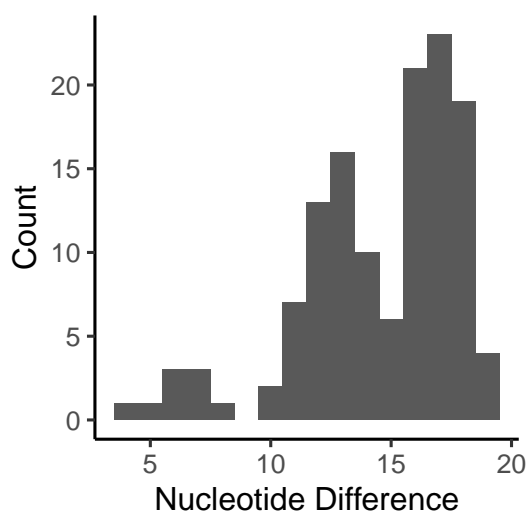
IGHV3-11*06

1670 sequences assigned
No exact matches.



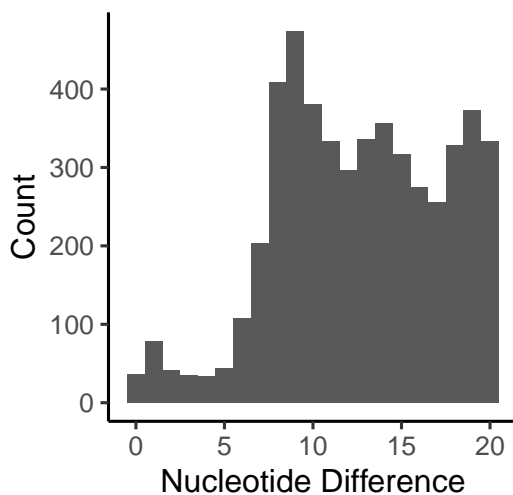
IGHV2-70*13

158 sequences assigned
No exact matches.



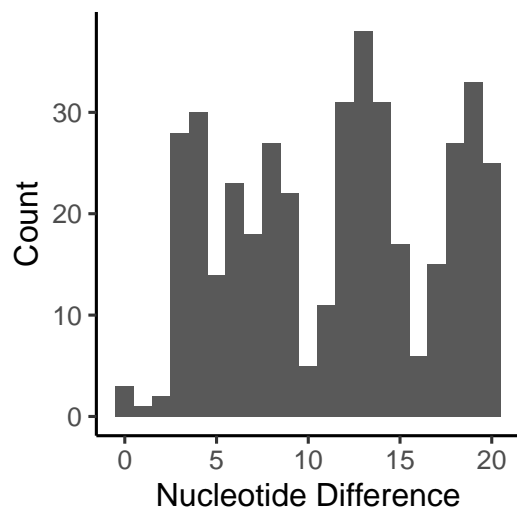
IGHV3-9*01

6443 sequences assigned
36 (0.6%) exact matches, in which:
24 unique CDR3
4 unique J



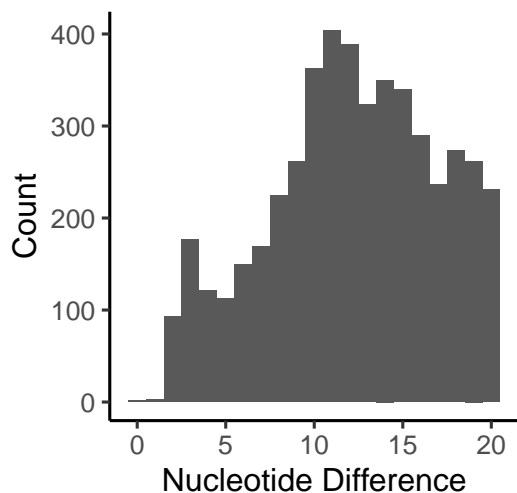
IGHV3-13*01

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



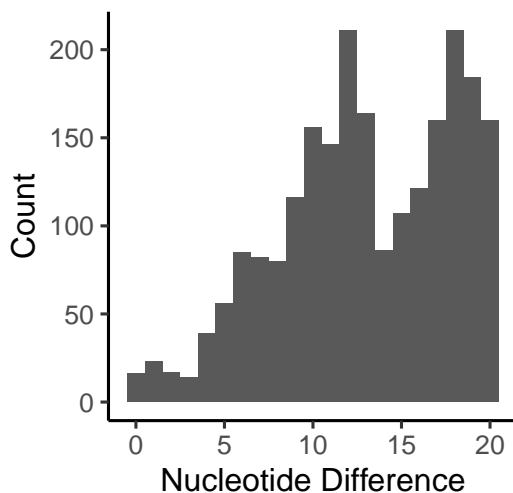
IGHV3-7*01

6232 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
2 unique J



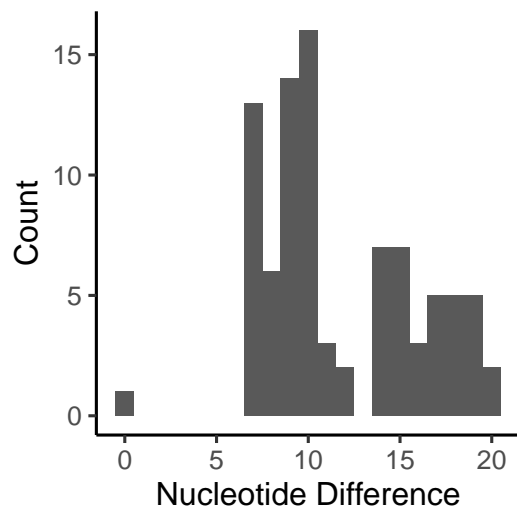
IGHV3-11*01

3330 sequences assigned
16 (0.5%) exact matches, in which:
11 unique CDR3
3 unique J



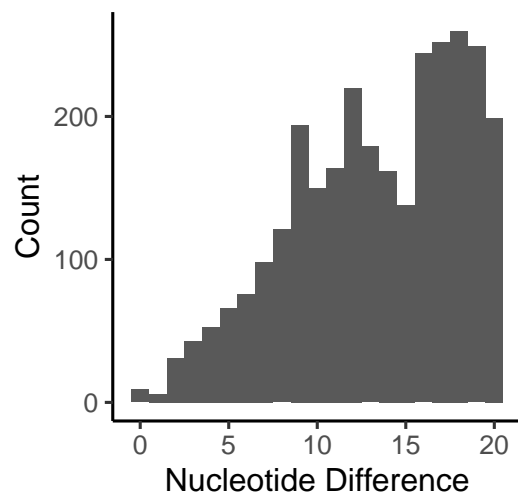
IGHV3-13*05

118 sequences assigned
1 (0.8%) exact matches, in which:
1 unique CDR3
1 unique J



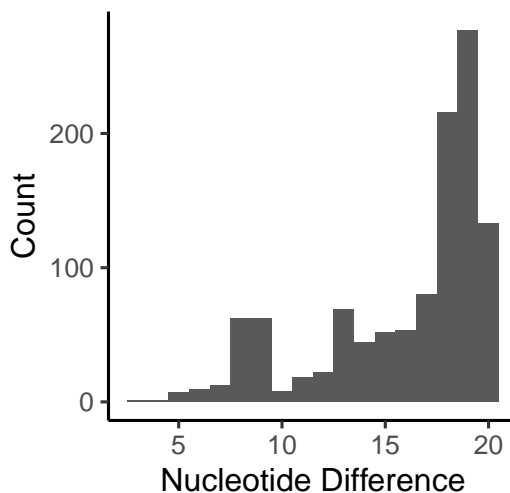
IGHV3-15*01_02

4568 sequences assigned
9 (0.2%) exact matches, in which:
6 unique CDR3
4 unique J



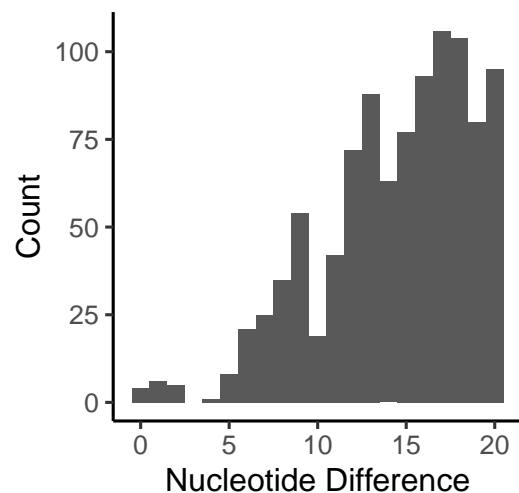
IGHV3-21*06

2030 sequences assigned
No exact matches.



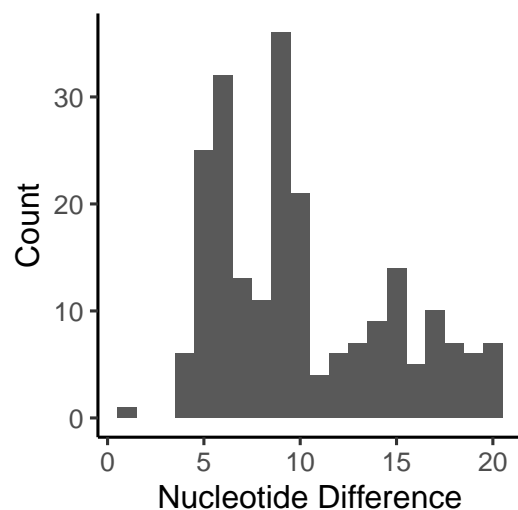
IGHV3-30*03

1644 sequences assigned
4 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



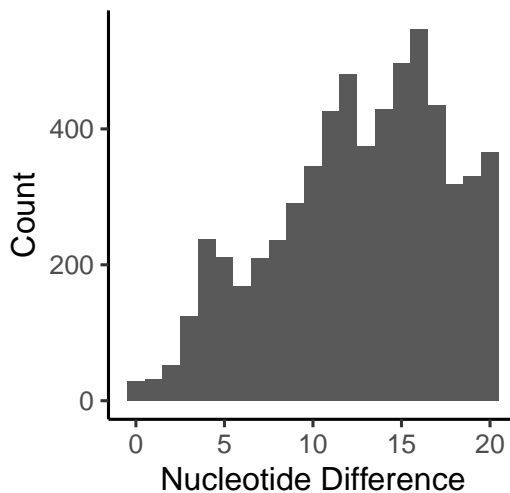
IGHV3-20*01_02

241 sequences assigned
No exact matches.



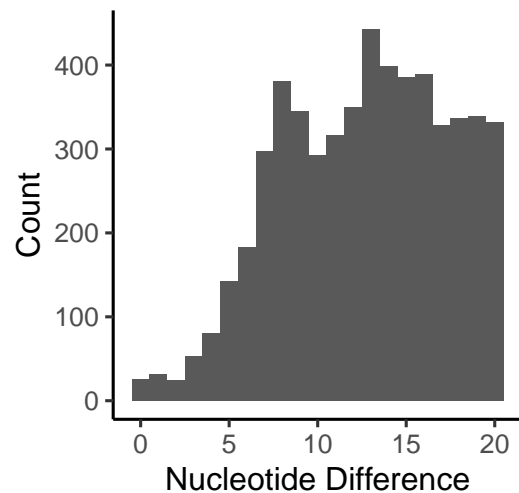
IGHV3-21*01_02

8892 sequences assigned
28 (0.3%) exact matches, in which:
21 unique CDR3
5 unique J



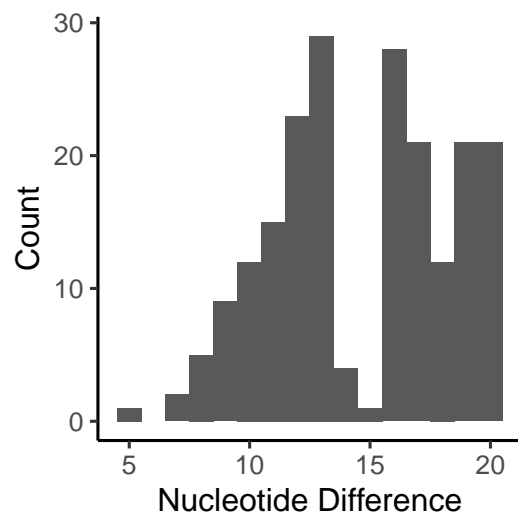
IGHV3-33*01

7500 sequences assigned
26 (0.3%) exact matches, in which:
15 unique CDR3
4 unique J



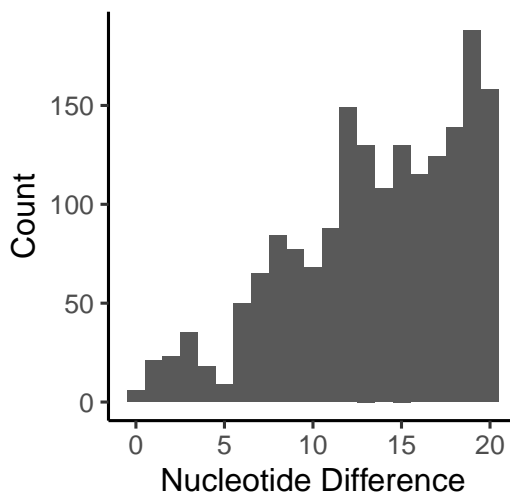
IGHV3-20*03_04

324 sequences assigned
No exact matches.



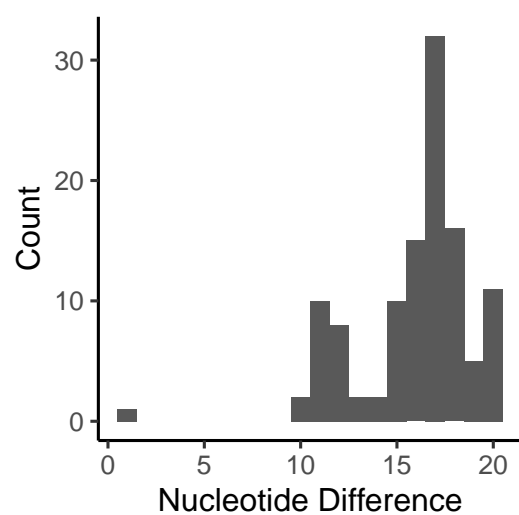
IGHV3-30-3*01

2785 sequences assigned
6 (0.2%) exact matches, in which:
6 unique CDR3
3 unique J



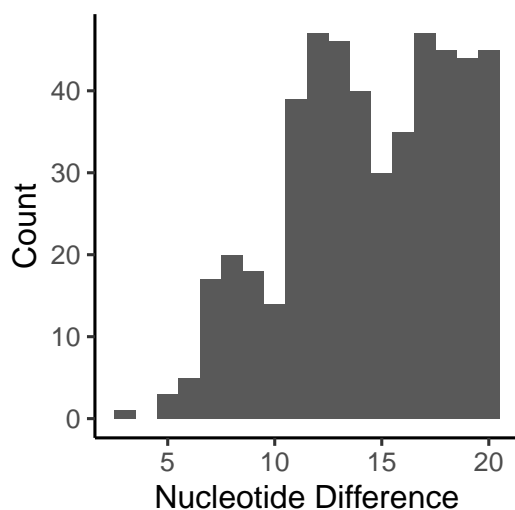
IGHV3-33*05

239 sequences assigned
No exact matches.



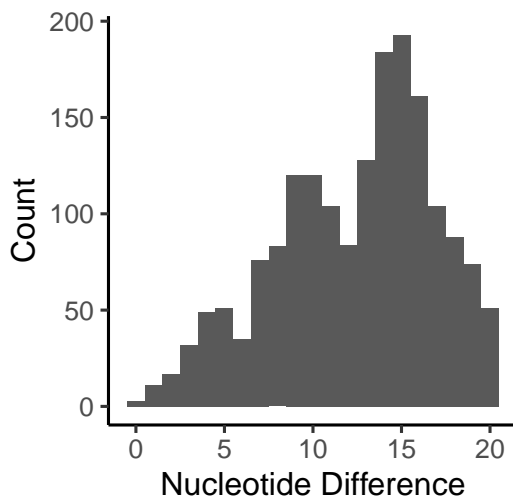
IGHV3-33*06

730 sequences assigned
No exact matches.



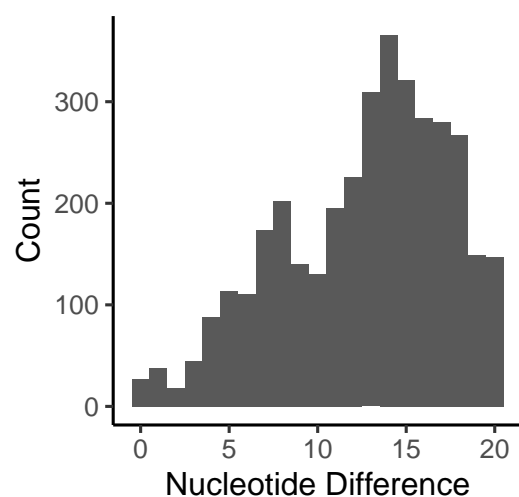
IGHV3-49*04

2445 sequences assigned
3 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



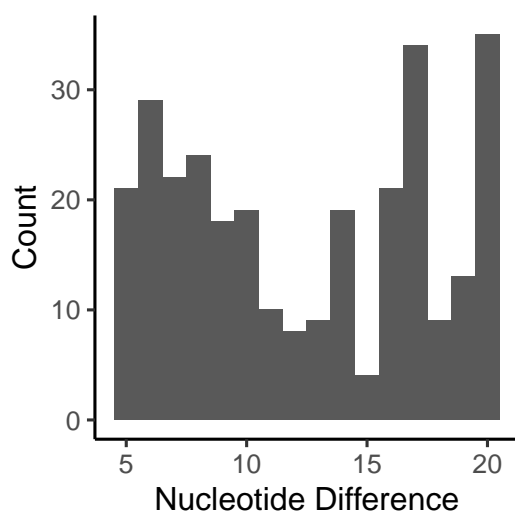
IGHV3-53*01_02

6320 sequences assigned
27 (0.4%) exact matches, in which:
20 unique CDR3
2 unique J



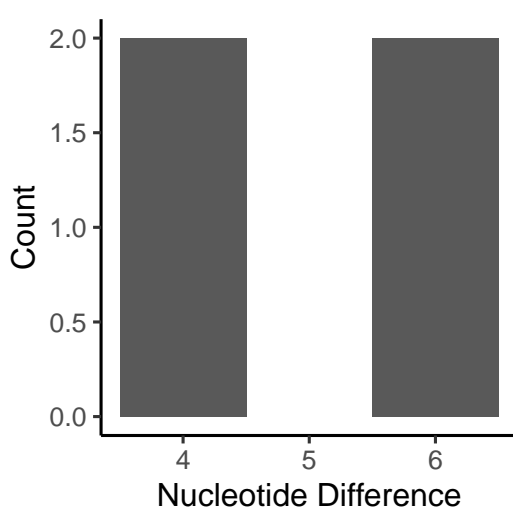
IGHV3-43*01

442 sequences assigned
No exact matches.



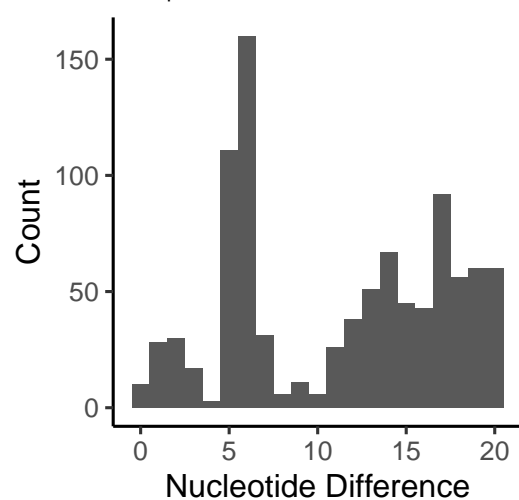
IGHV3-52*01_03

4 sequences assigned
No exact matches.



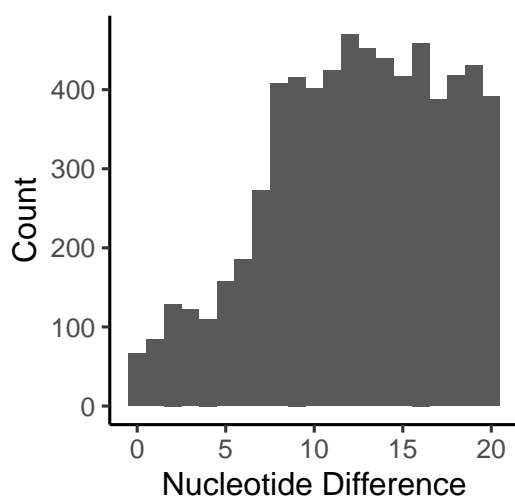
IGHV3-64*01

1102 sequences assigned
10 (0.9%) exact matches, in which:
7 unique CDR3
1 unique J



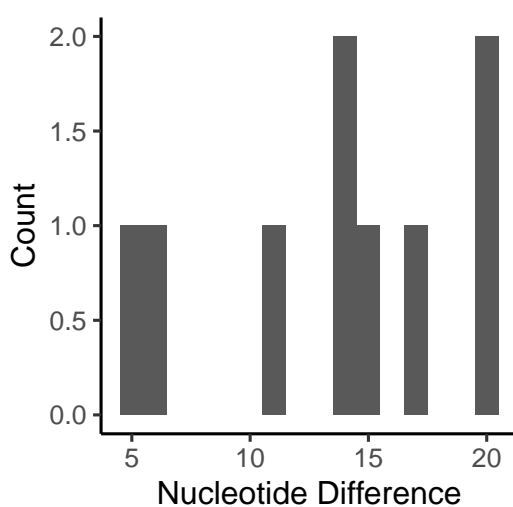
IGHV3-48*03

9444 sequences assigned
67 (0.7%) exact matches, in which:
48 unique CDR3
6 unique J



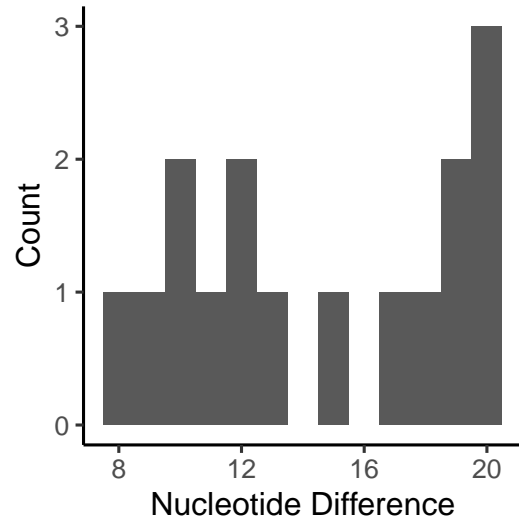
IGHV3-53*05

22 sequences assigned
No exact matches.



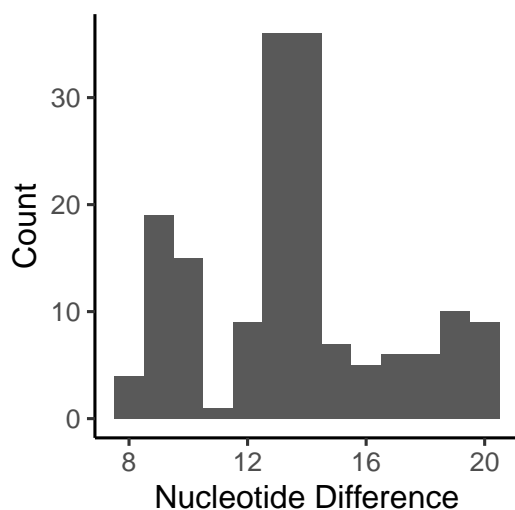
IGHV3-64*04

82 sequences assigned
No exact matches.



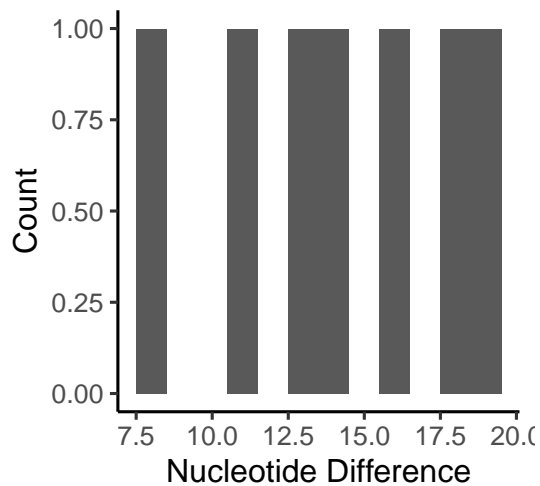
IGHV3-64*02_07

275 sequences assigned
No exact matches.



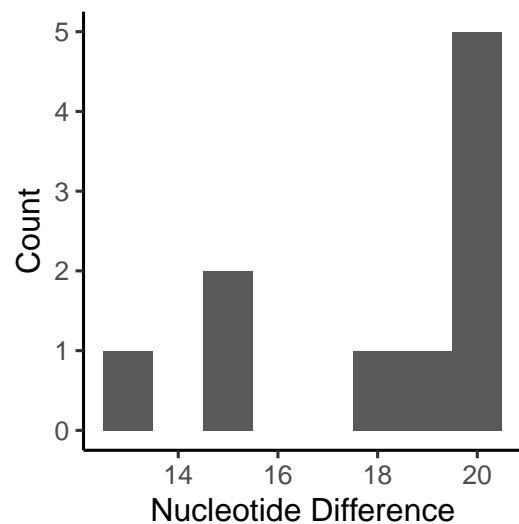
IGHV3-66*03

10 sequences assigned
No exact matches.



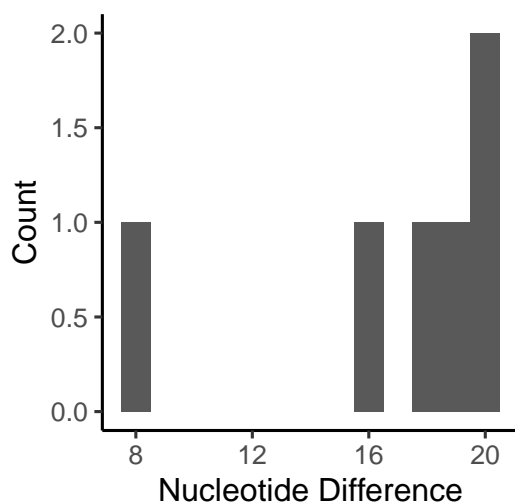
IGHV3-69-1*02

51 sequences assigned
No exact matches.



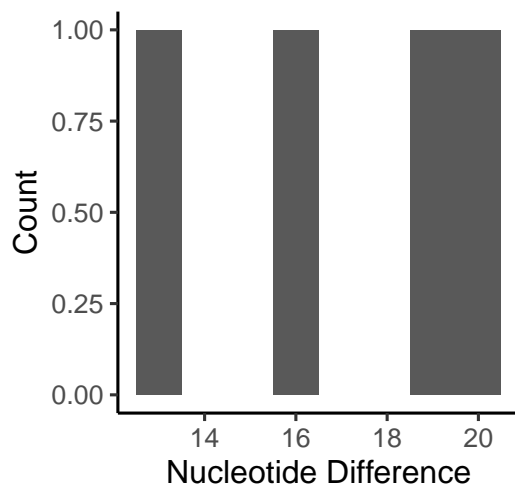
IGHV3-66*01

22 sequences assigned
No exact matches.



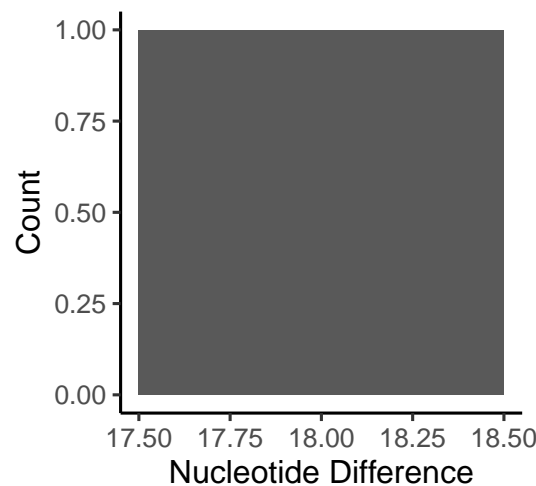
IGHV3-66*04

42 sequences assigned
No exact matches.



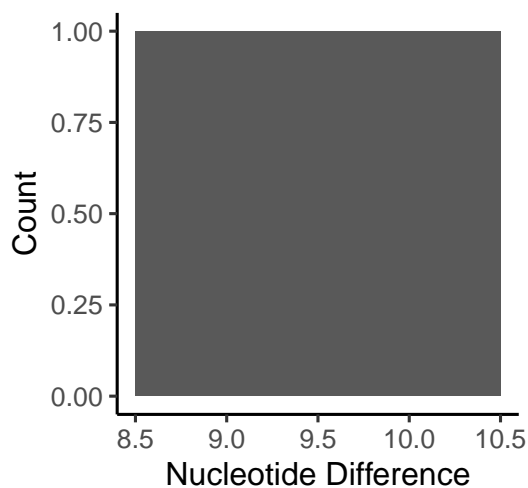
IGHV3-71*01_04

2 sequences assigned
No exact matches.



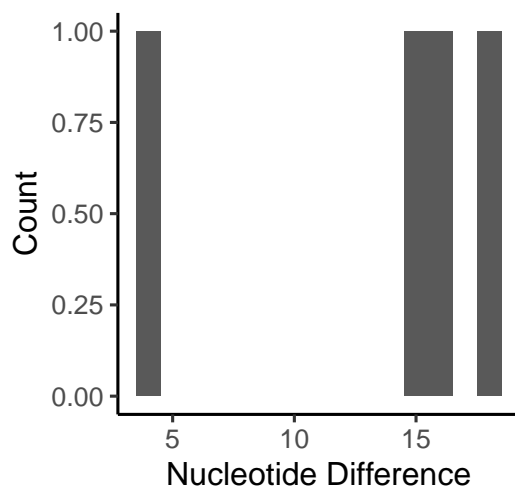
IGHV3-66*02

6 sequences assigned
No exact matches.



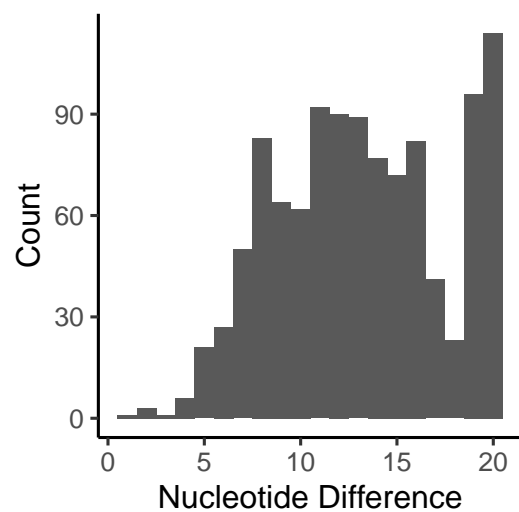
IGHV3-69-1*01

14 sequences assigned
No exact matches.



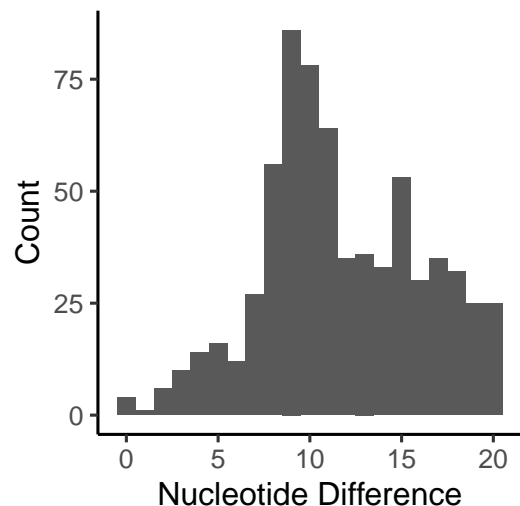
IGHV3-72*01

1283 sequences assigned
No exact matches.



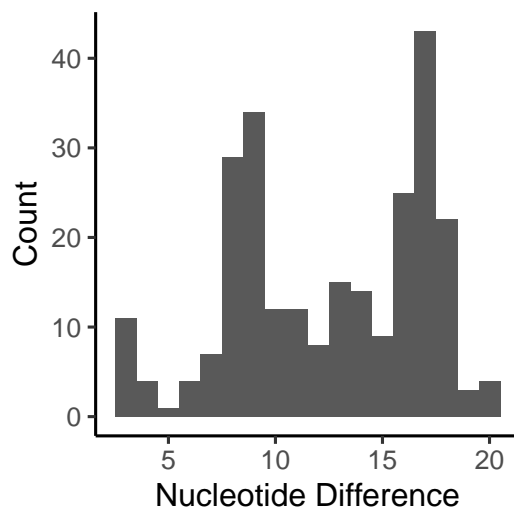
IGHV3-73*01_02

1335 sequences assigned
4 (0.3%) exact matches, in which:
3 unique CDR3
2 unique J



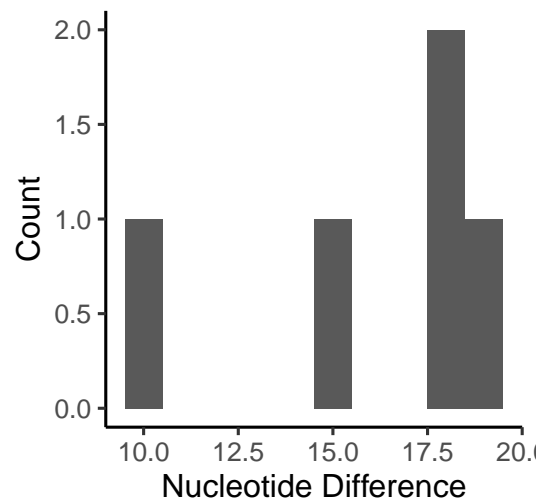
IGHV3-43D*04

324 sequences assigned
No exact matches.



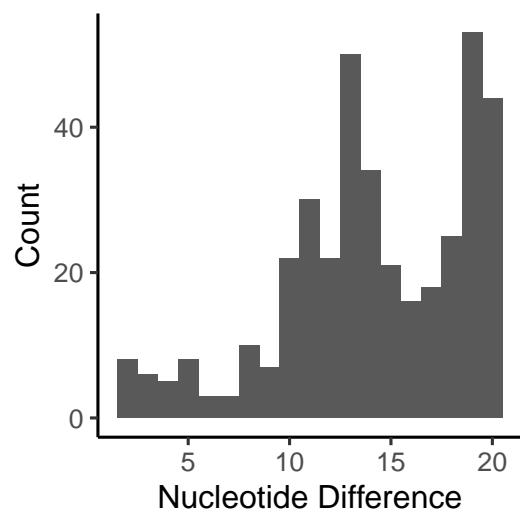
IGHV4-28*03

49 sequences assigned
No exact matches.



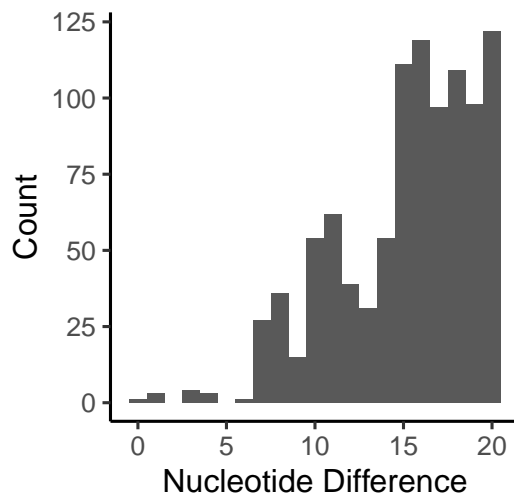
IGHV3-74*03

748 sequences assigned
No exact matches.



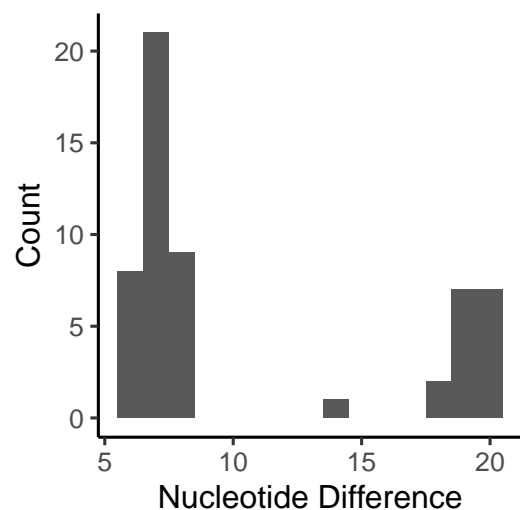
IGHV3-64D*09

1864 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



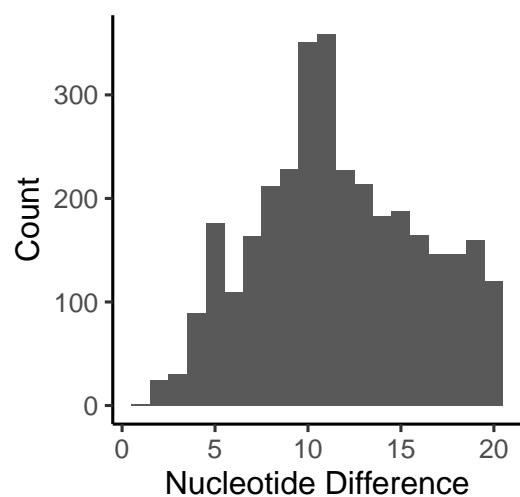
IGHV4-28*01_07

59 sequences assigned
No exact matches.



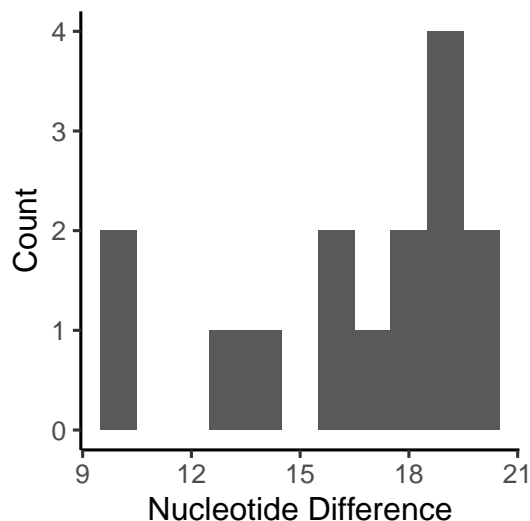
IGHV3-74*01_02

4534 sequences assigned
No exact matches.



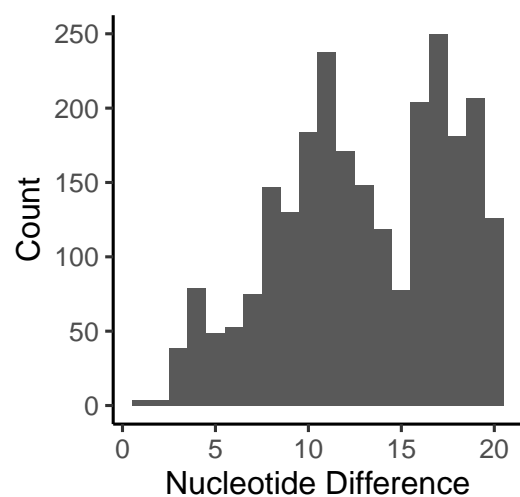
IGHV3-NL1*01

36 sequences assigned
No exact matches.



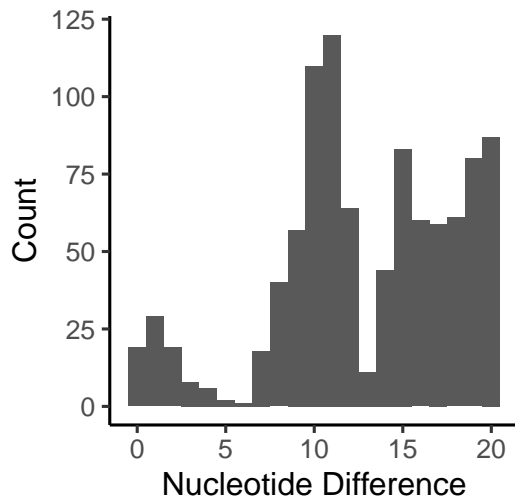
IGHV4-30-4*01

4273 sequences assigned
No exact matches.



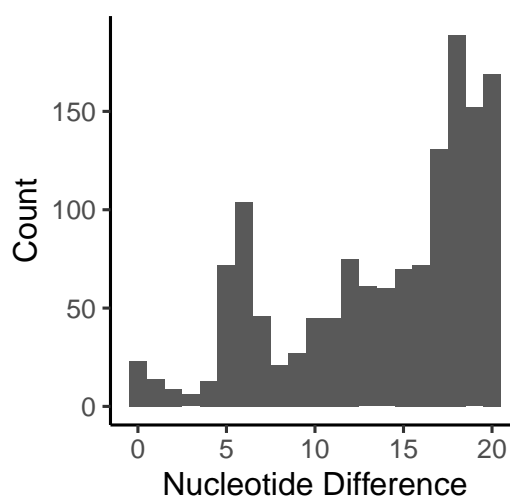
IGHV4-30-2*01

2234 sequences assigned
19 (0.9%) exact matches, in which:
13 unique CDR3
1 unique J



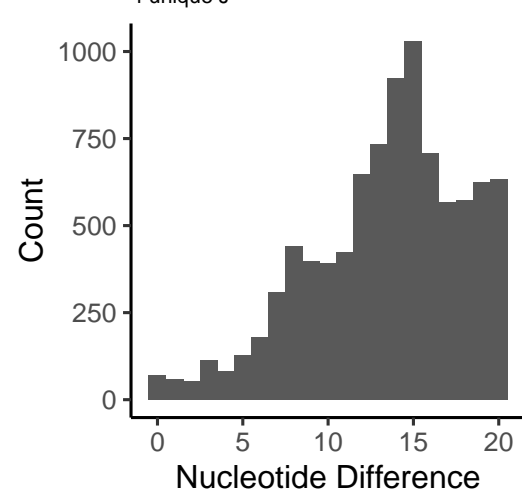
IGHV4-38-2*01

2461 sequences assigned
23 (0.9%) exact matches, in which:
14 unique CDR3
3 unique J



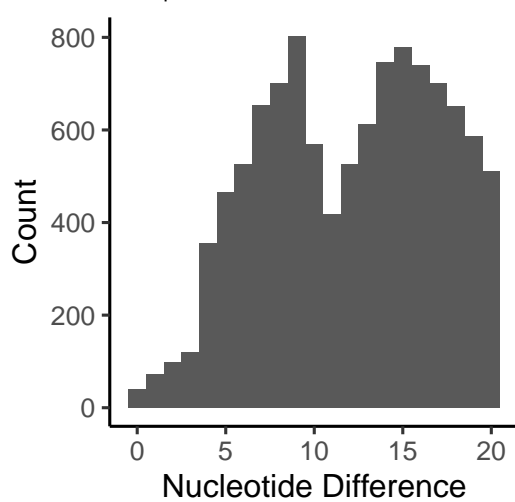
IGHV4-39*01_05

15371 sequences assigned
69 (0.4%) exact matches, in which:
35 unique CDR3
4 unique J



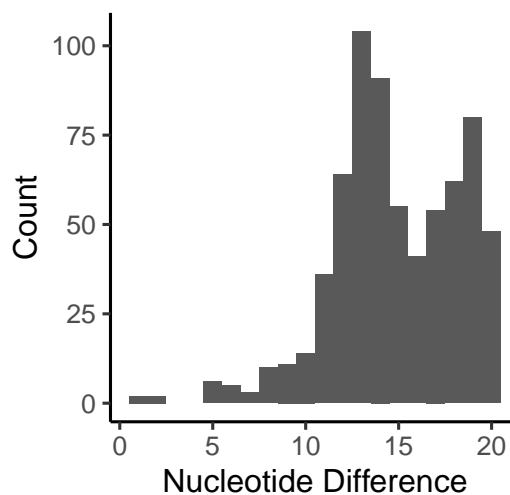
IGHV4-31*03_04

16368 sequences assigned
41 (0.3%) exact matches, in which:
34 unique CDR3
3 unique J



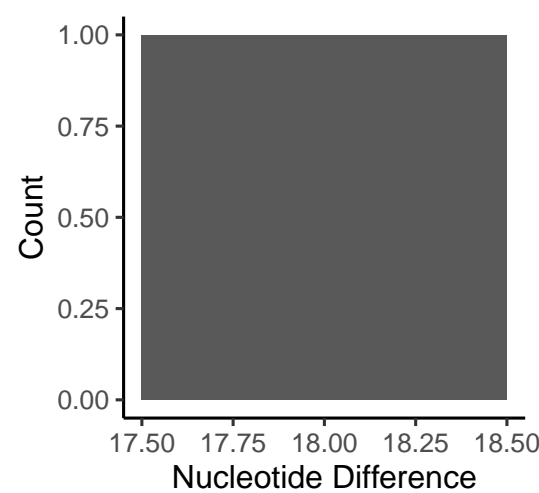
IGHV4-38-2*02

1377 sequences assigned
No exact matches.



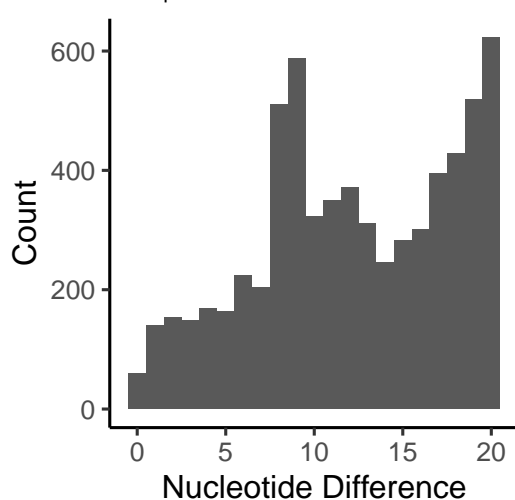
IGHV4-55*02_04_08

2 sequences assigned
No exact matches.



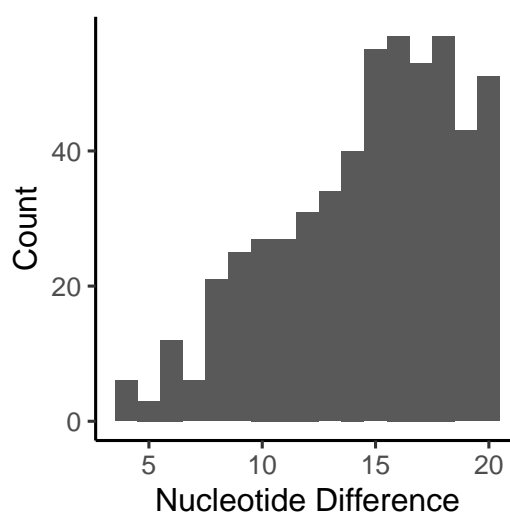
IGHV4-34*01_02

13886 sequences assigned
59 (0.4%) exact matches, in which:
42 unique CDR3
6 unique J



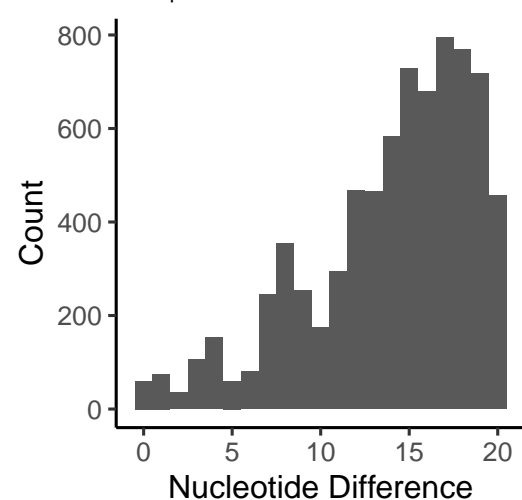
IGHV4-39*07

986 sequences assigned
No exact matches.



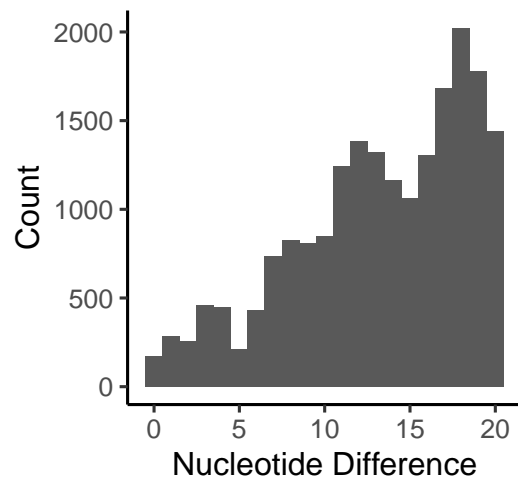
IGHV4-59*08

12751 sequences assigned
60 (0.5%) exact matches, in which:
37 unique CDR3
4 unique J



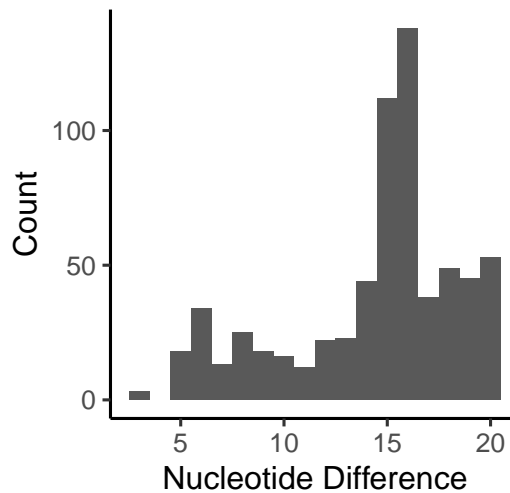
IGHV4-59*01_07

30970 sequences assigned
170 (0.5%) exact matches, in which:
118 unique CDR3
6 unique J



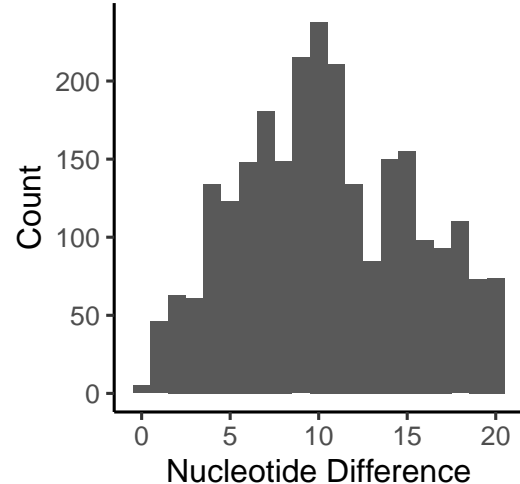
IGHV4-61*08

1319 sequences assigned
No exact matches.



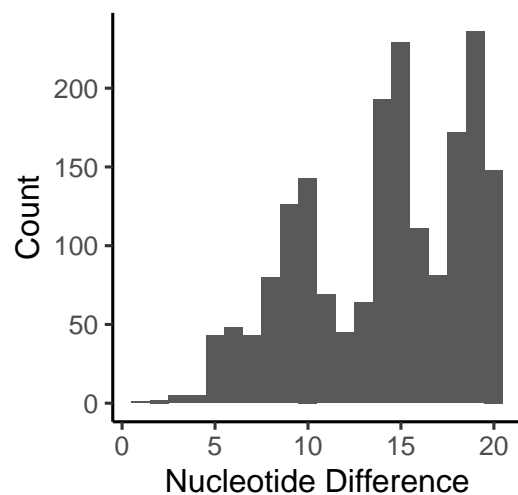
IGHV6-1*01_02

3179 sequences assigned
5 (0.2%) exact matches, in which:
4 unique CDR3
2 unique J



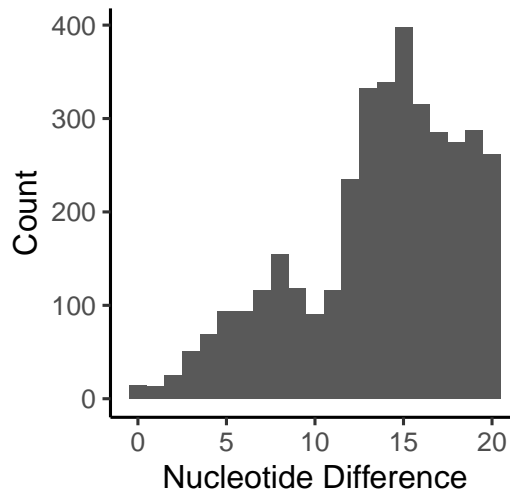
IGHV4-59*11

3830 sequences assigned
No exact matches.



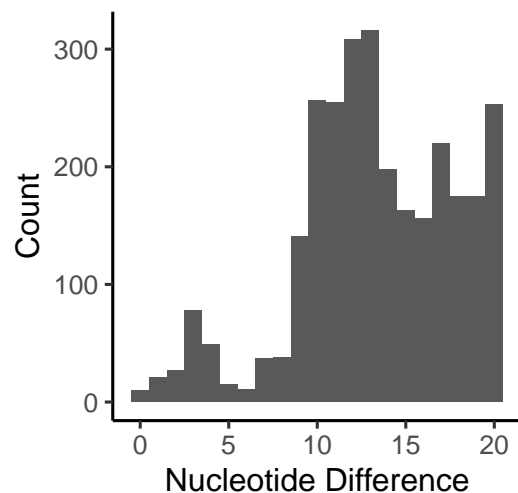
IGHV5-10-1*01_03

4980 sequences assigned
14 (0.3%) exact matches, in which:
11 unique CDR3
4 unique J



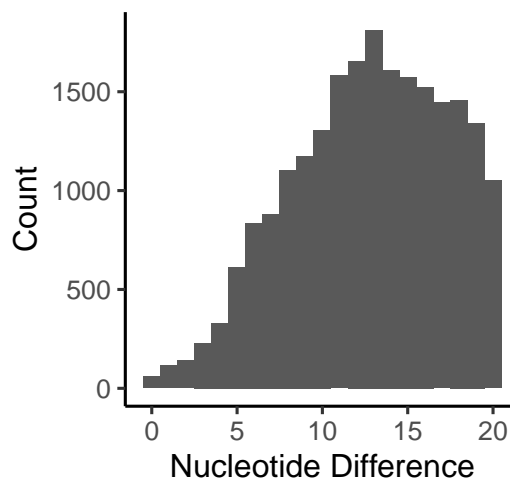
IGHV4-61*01

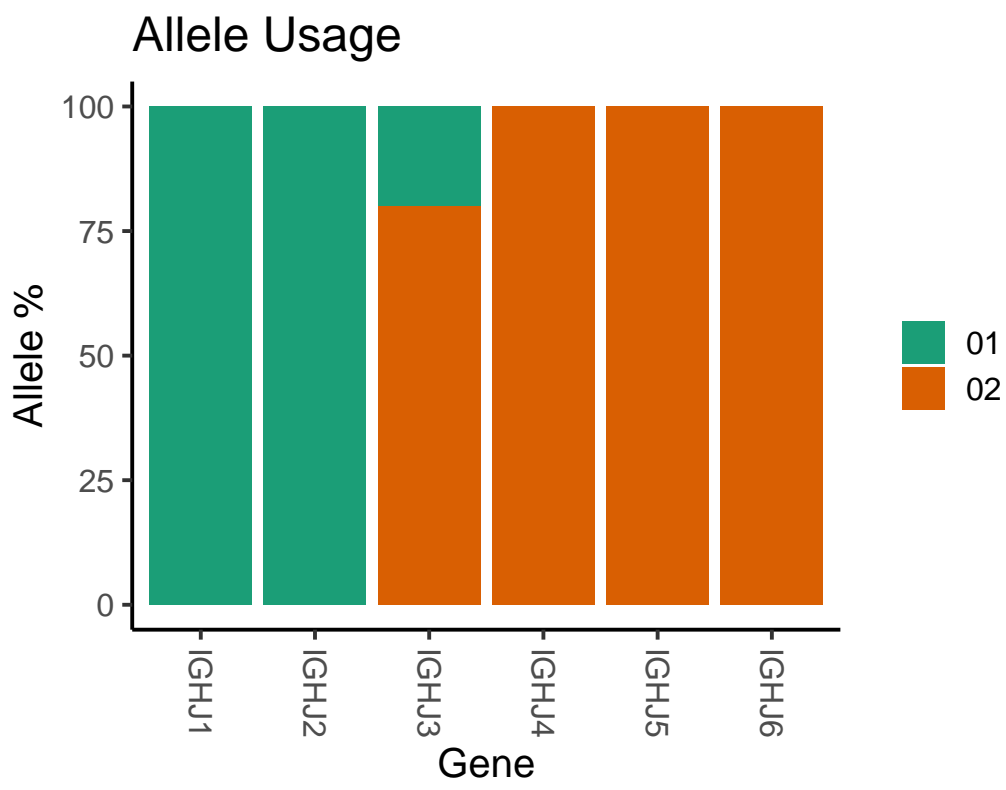
4233 sequences assigned
10 (0.2%) exact matches, in which:
6 unique CDR3
2 unique J



IGHV5-51*01_03

28563 sequences assigned
60 (0.2%) exact matches, in which:
45 unique CDR3
3 unique J





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.