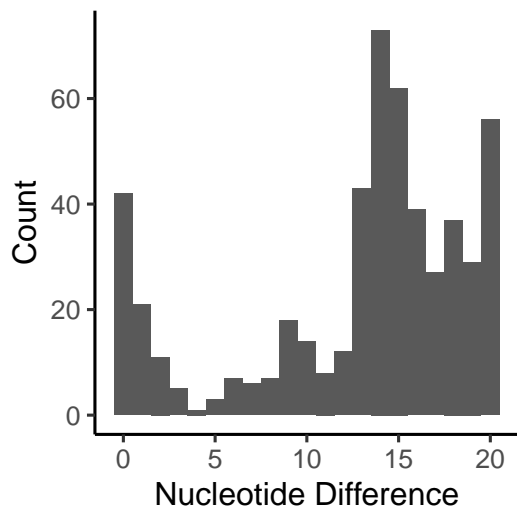


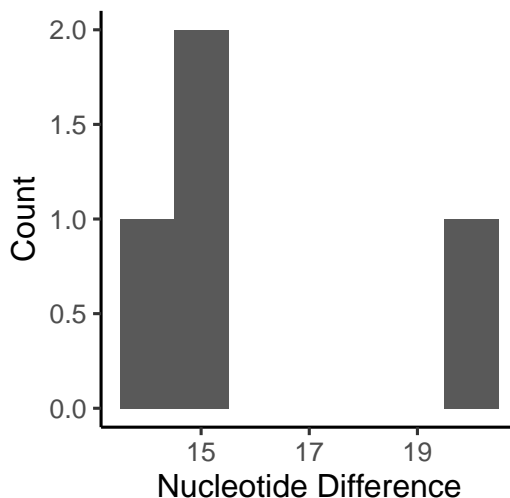
IGHV1-2*02

841 sequences assigned
42 (5%) exact matches, in which:
37 unique CDR3
6 unique J



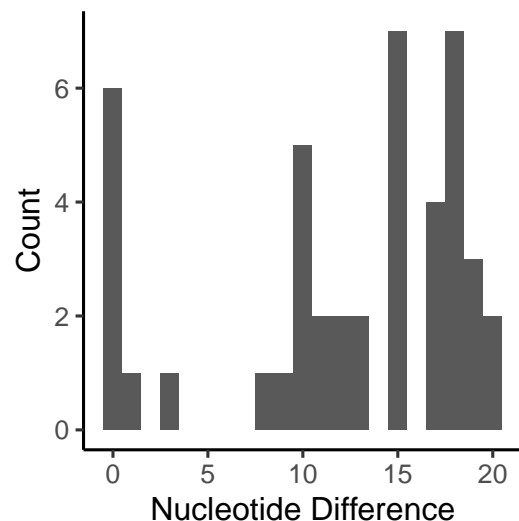
IGHV1-3*04

44 sequences assigned
No exact matches.



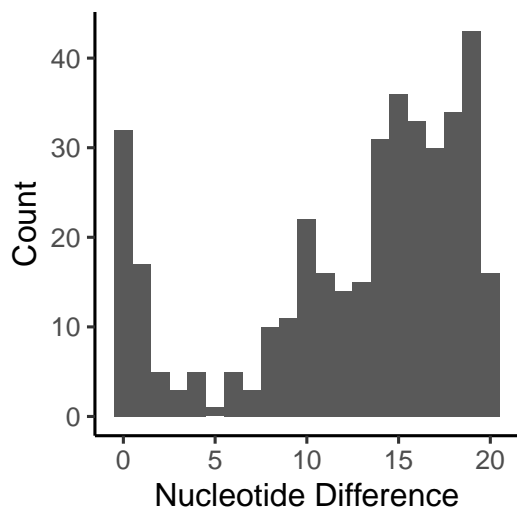
IGHV1-24*01

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



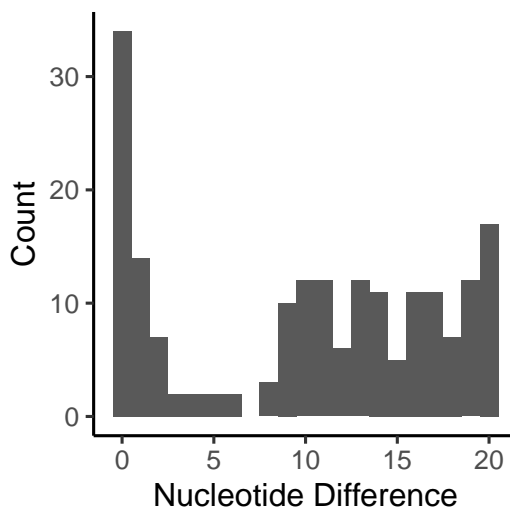
IGHV1-2*06

910 sequences assigned
32 (3.5%) exact matches, in which:
32 unique CDR3
5 unique J



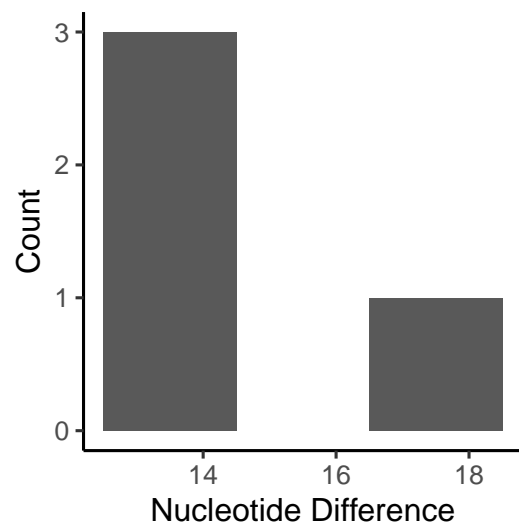
IGHV1-8*01

731 sequences assigned
34 (4.7%) exact matches, in which:
34 unique CDR3
7 unique J



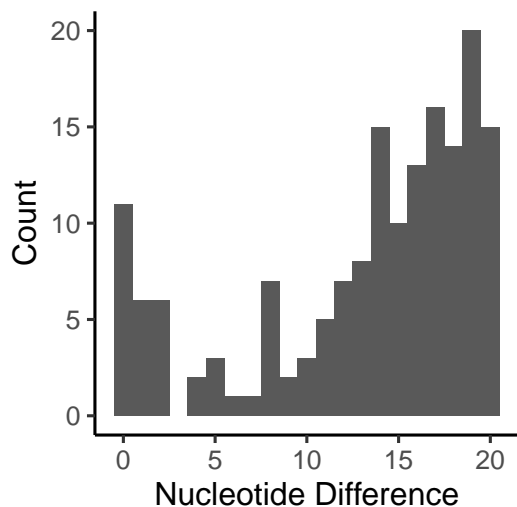
IGHV1-45*02

32 sequences assigned
No exact matches.



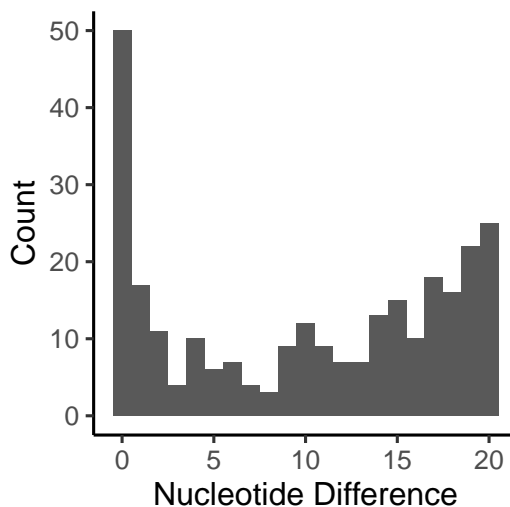
IGHV1-3*01

377 sequences assigned
11 (2.9%) exact matches, in which:
9 unique CDR3
3 unique J



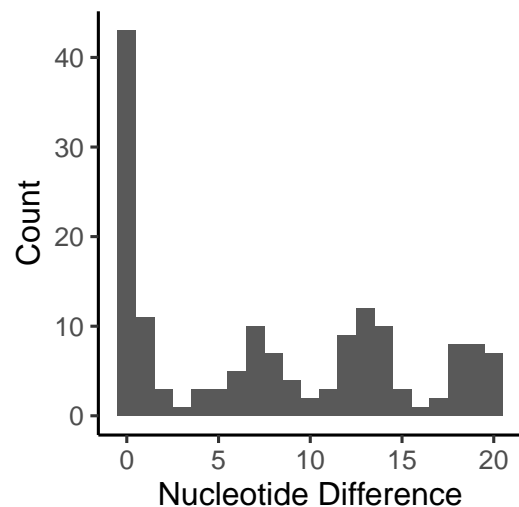
IGHV1-18*01

840 sequences assigned
50 (6%) exact matches, in which:
49 unique CDR3
6 unique J



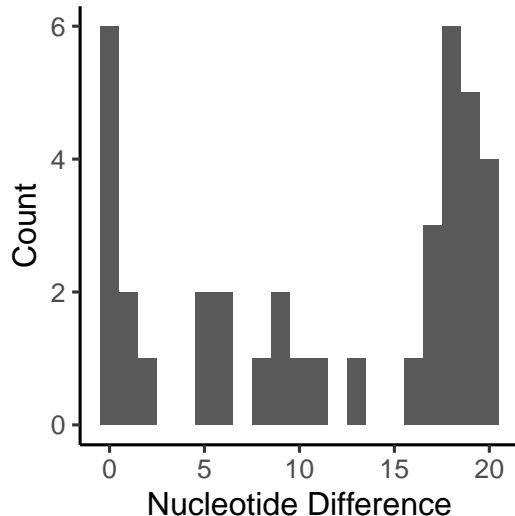
IGHV1-46*01

564 sequences assigned
43 (7.6%) exact matches, in which:
41 unique CDR3
5 unique J



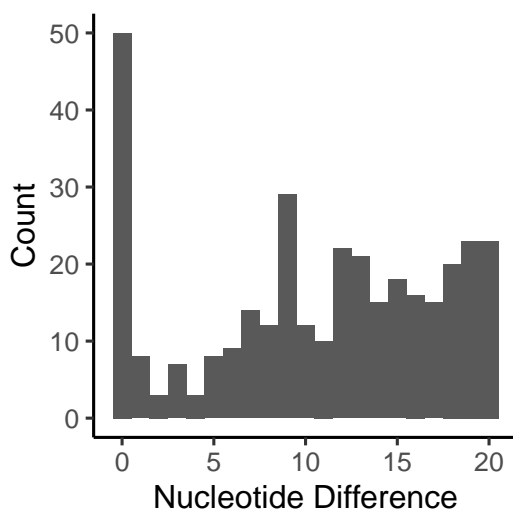
IGHV1-58*01

91 sequences assigned
6 (6.6%) exact matches, in which:
6 unique CDR3
4 unique J



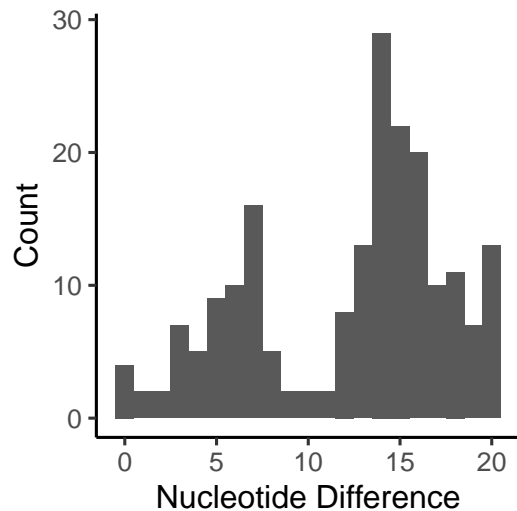
IGHV1-69*06

651 sequences assigned
50 (7.7%) exact matches, in which:
47 unique CDR3
5 unique J



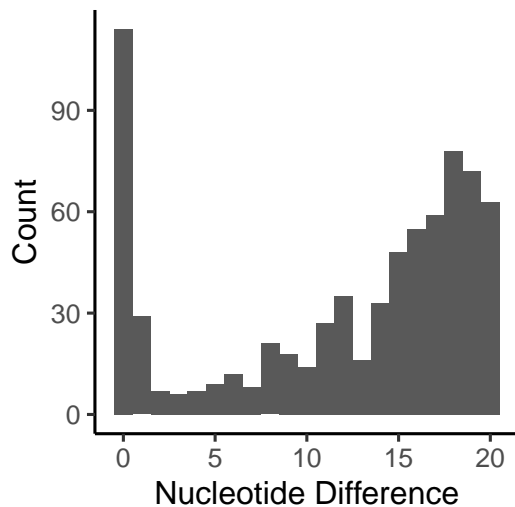
IGHV2-5*02

294 sequences assigned
4 (1.4%) exact matches, in which:
4 unique CDR3
2 unique J



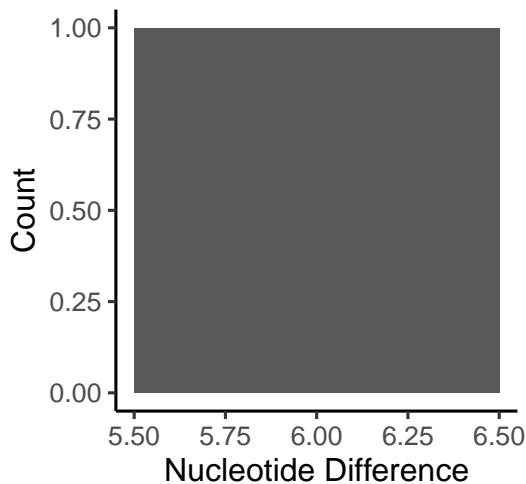
IGHV1-69*01

2002 sequences assigned
114 (5.7%) exact matches, in which:
108 unique CDR3
7 unique J



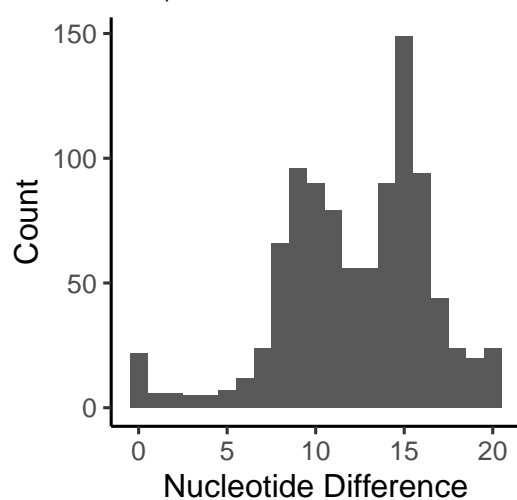
IGHV1-NL1*01

1 sequences assigned
No exact matches.



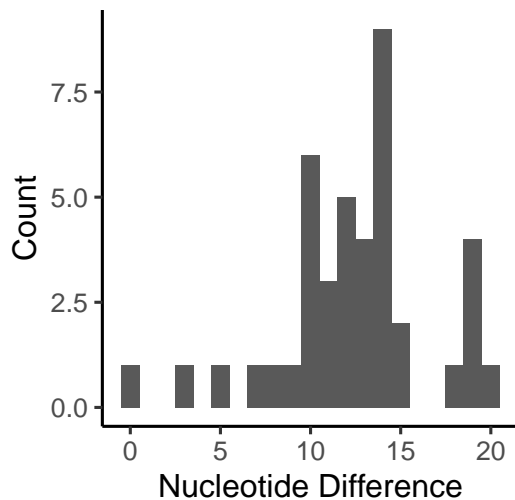
IGHV2-26*01

1068 sequences assigned
22 (2.1%) exact matches, in which:
22 unique CDR3
6 unique J



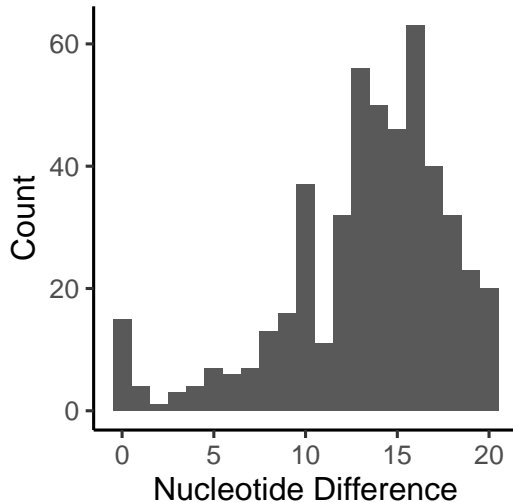
IGHV1-69-2*01

44 sequences assigned
1 (2.3%) exact matches, in which:
1 unique CDR3
1 unique J



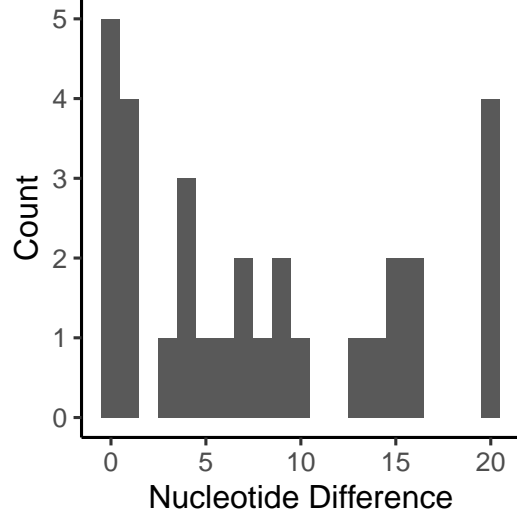
IGHV2-5*01

644 sequences assigned
15 (2.3%) exact matches, in which:
14 unique CDR3
3 unique J



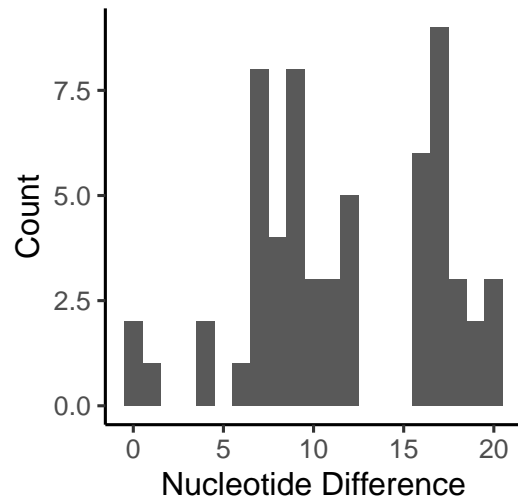
IGHV2-70*01

42 sequences assigned
5 (11.9%) exact matches, in which:
5 unique CDR3
2 unique J



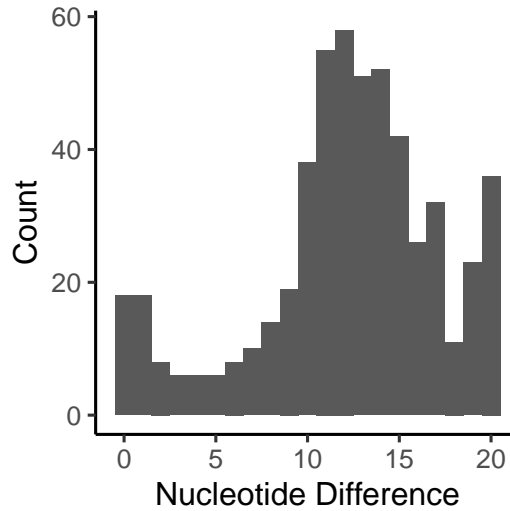
IGHV2-70*04

88 sequences assigned
2 (2.3%) exact matches, in which:
2 unique CDR3
2 unique J



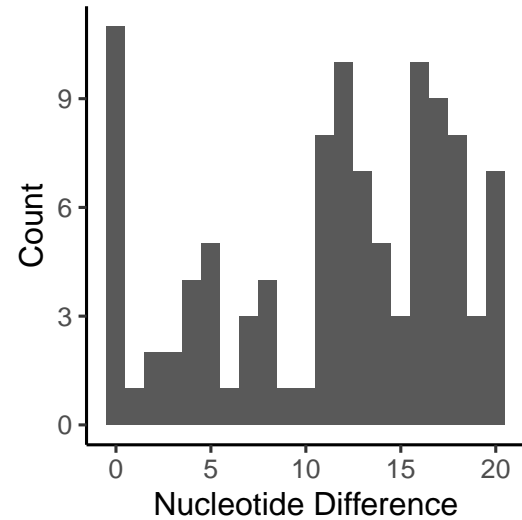
IGHV3-7*03

1238 sequences assigned
18 (1.5%) exact matches, in which:
18 unique CDR3
6 unique J



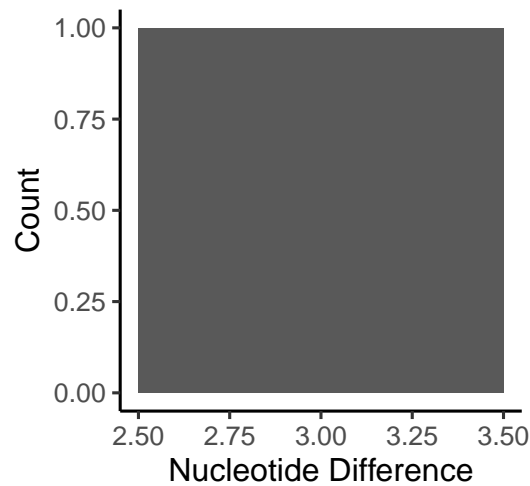
IGHV3-13*01

629 sequences assigned
11 (1.7%) exact matches, in which:
11 unique CDR3
5 unique J



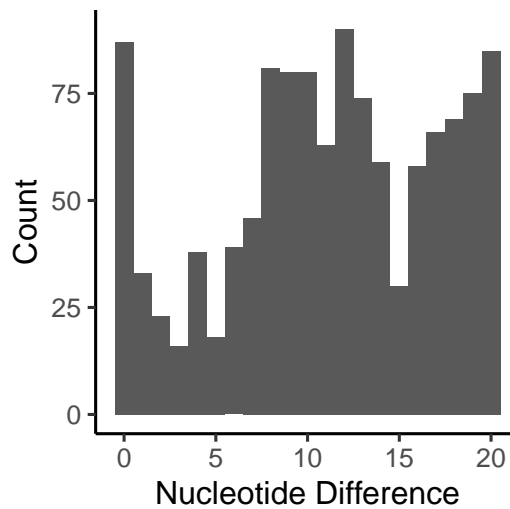
IGHV2-70*12

1 sequences assigned
No exact matches.



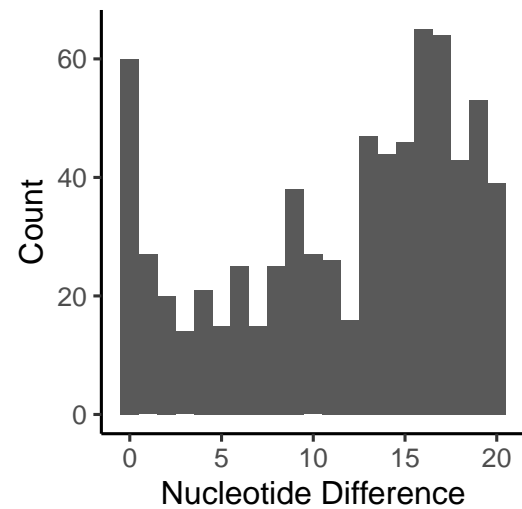
IGHV3-9*01

3427 sequences assigned
87 (2.5%) exact matches, in which:
74 unique CDR3
6 unique J



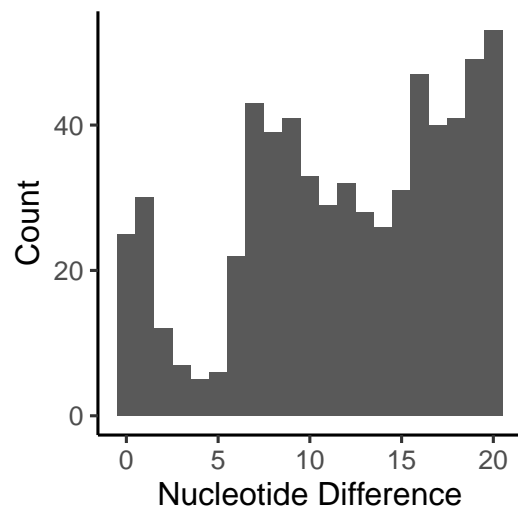
IGHV3-15*01

1525 sequences assigned
60 (3.9%) exact matches, in which:
49 unique CDR3
5 unique J



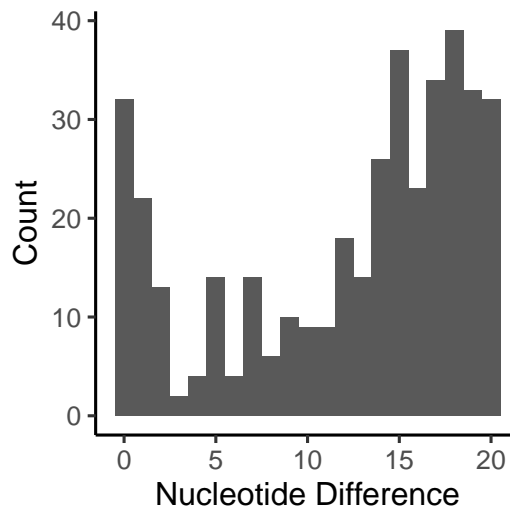
IGHV3-7*01

1010 sequences assigned
25 (2.5%) exact matches, in which:
17 unique CDR3
4 unique J



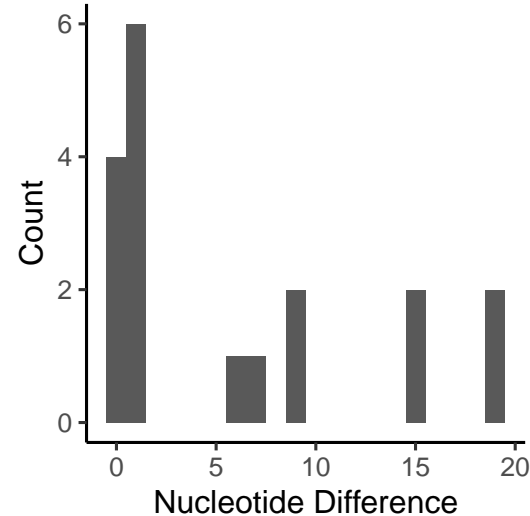
IGHV3-11*01

959 sequences assigned
32 (3.3%) exact matches, in which:
31 unique CDR3
6 unique J



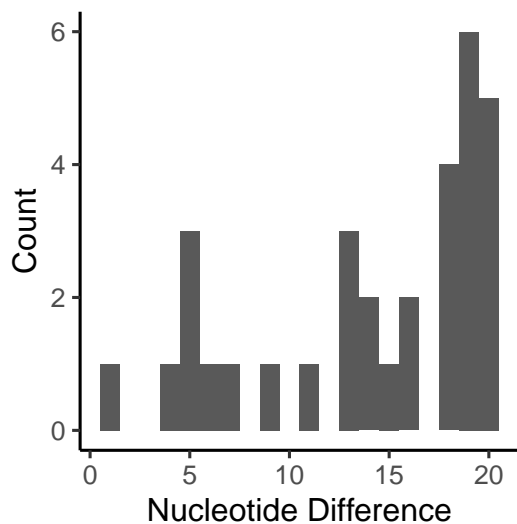
IGHV3-20*01

29 sequences assigned
4 (13.8%) exact matches, in which:
4 unique CDR3
3 unique J



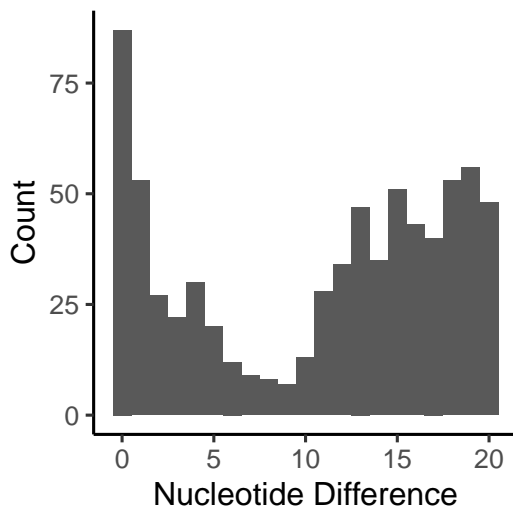
IGHV3-20*04

63 sequences assigned
No exact matches.



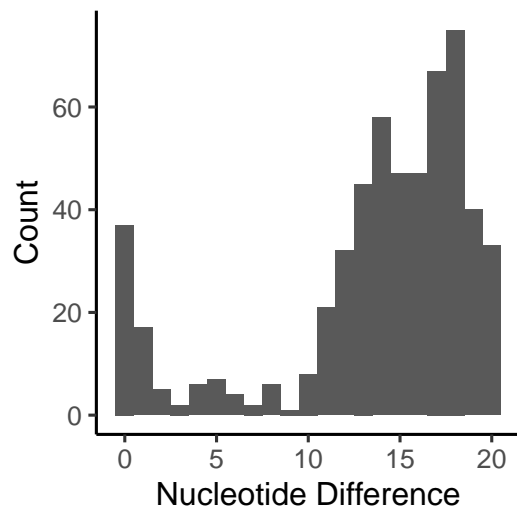
IGHV3-23*01

1741 sequences assigned
87 (5%) exact matches, in which:
67 unique CDR3
6 unique J



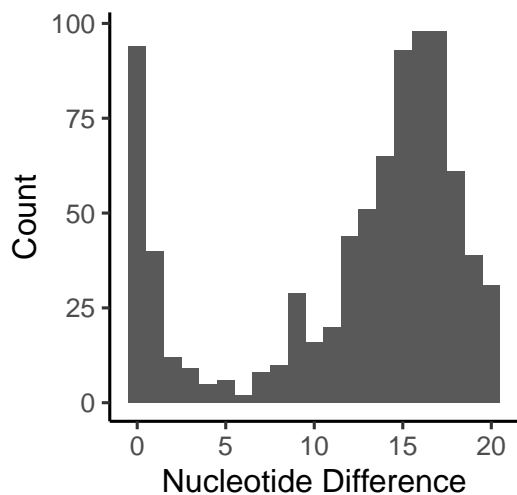
IGHV3-30-3*01

1255 sequences assigned
37 (2.9%) exact matches, in which:
36 unique CDR3
5 unique J



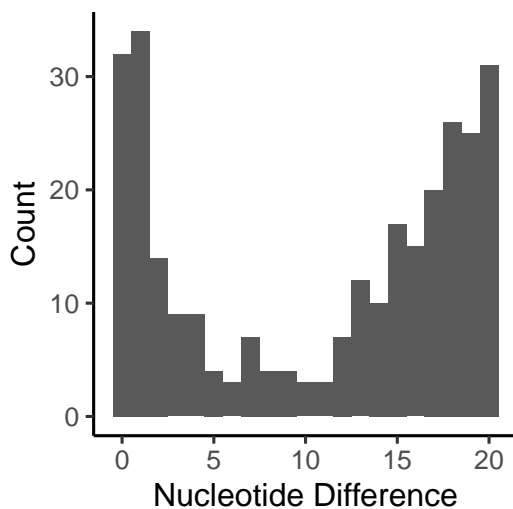
IGHV3-21*01

1555 sequences assigned
94 (6%) exact matches, in which:
89 unique CDR3
6 unique J



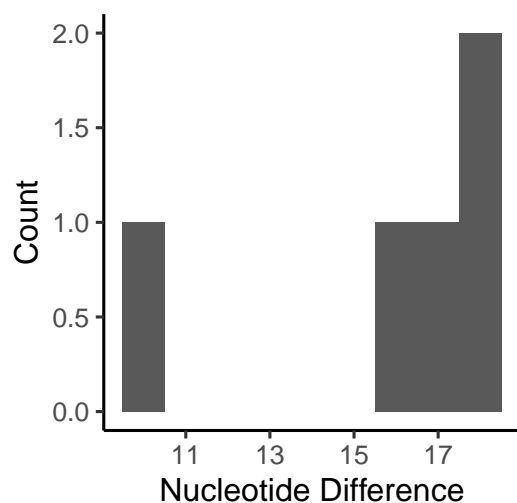
IGHV3-23*03

507 sequences assigned
32 (6.3%) exact matches, in which:
25 unique CDR3
6 unique J



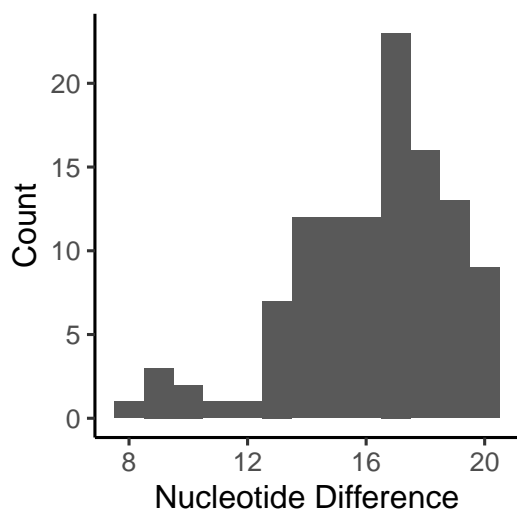
IGHV3-30-3*02

35 sequences assigned
No exact matches.



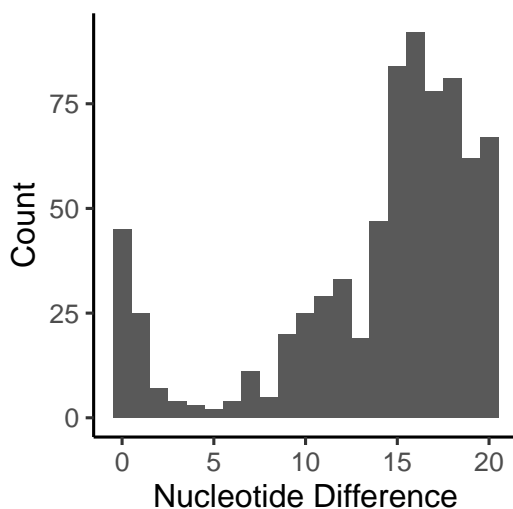
IGHV3-21*02

268 sequences assigned
No exact matches.



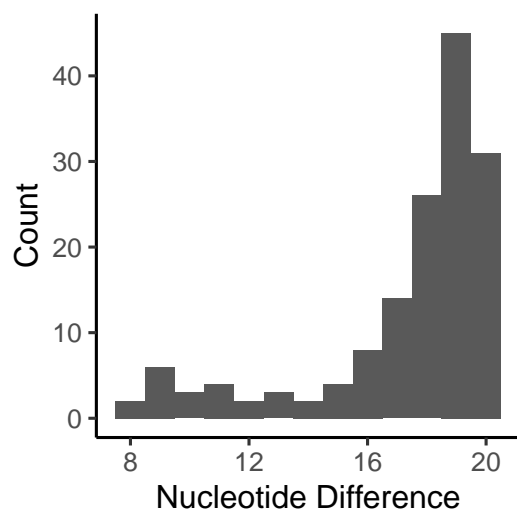
IGHV3-23*04

1454 sequences assigned
45 (3.1%) exact matches, in which:
43 unique CDR3
5 unique J



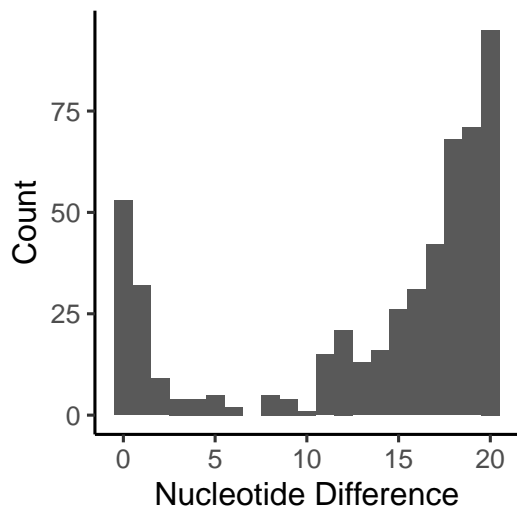
IGHV3-30*03

806 sequences assigned
No exact matches.



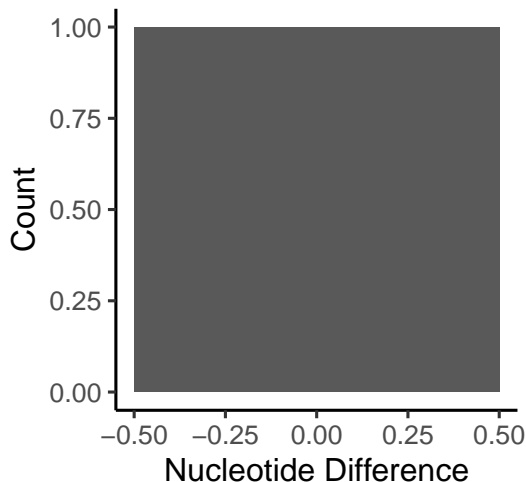
IGHV3-30*04

1280 sequences assigned
53 (4.1%) exact matches, in which:
52 unique CDR3
4 unique J



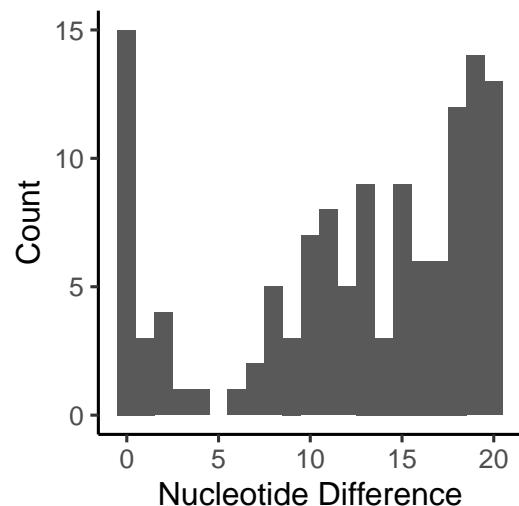
IGHV3-35*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



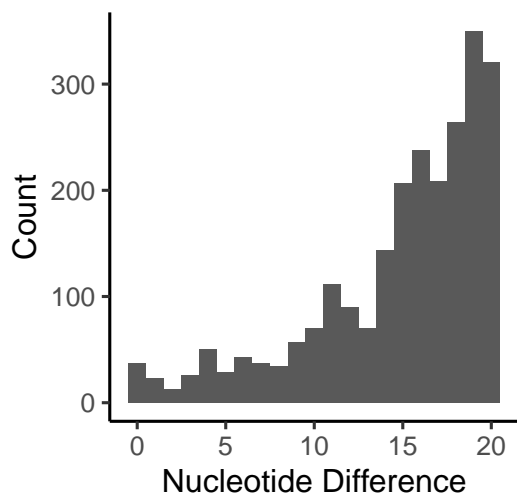
IGHV3-48*01

146 sequences assigned
15 (10.3%) exact matches, in which:
15 unique CDR3
5 unique J



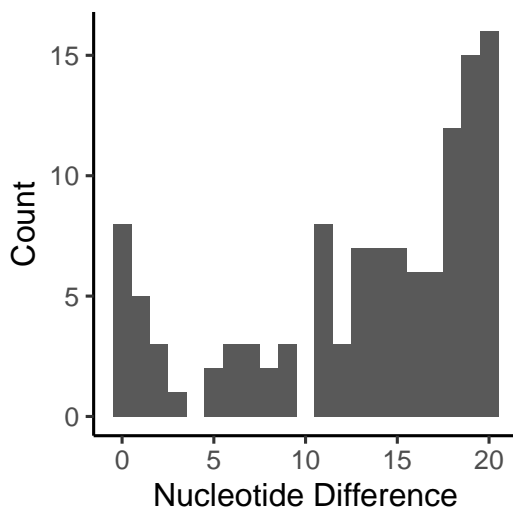
IGHV3-30*18

3940 sequences assigned
37 (0.9%) exact matches, in which:
37 unique CDR3
7 unique J



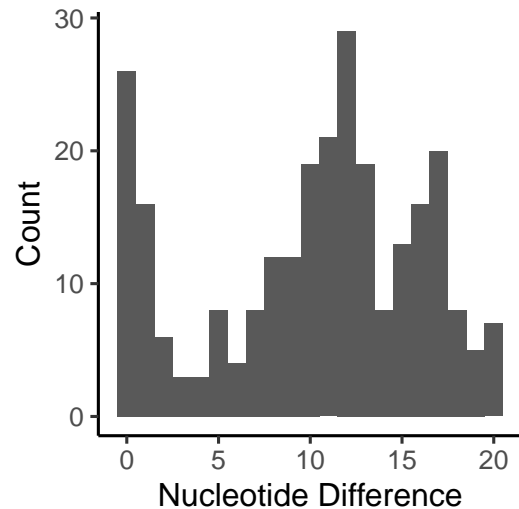
IGHV3-43*02

298 sequences assigned
8 (2.7%) exact matches, in which:
8 unique CDR3
3 unique J



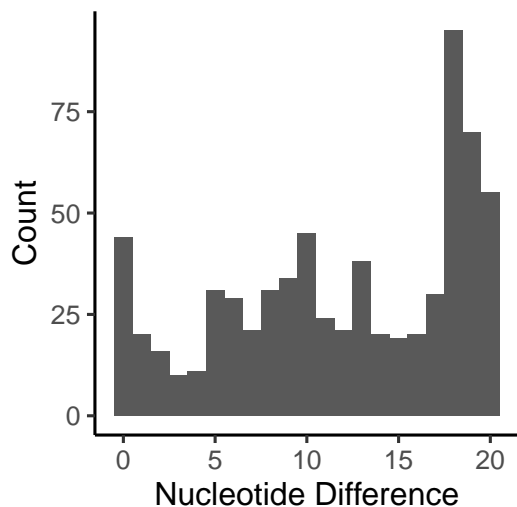
IGHV3-48*02

399 sequences assigned
26 (6.5%) exact matches, in which:
19 unique CDR3
5 unique J



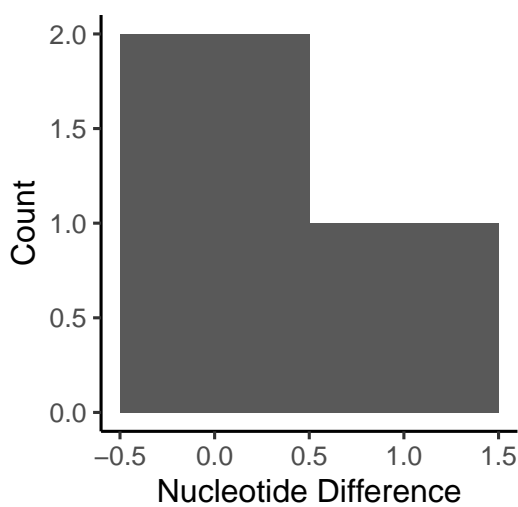
IGHV3-33*08

1638 sequences assigned
44 (2.7%) exact matches, in which:
39 unique CDR3
5 unique J



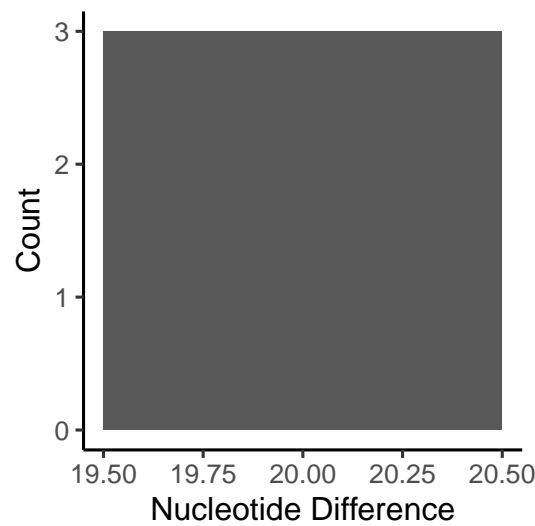
IGHV3-47*02

4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
2 unique J



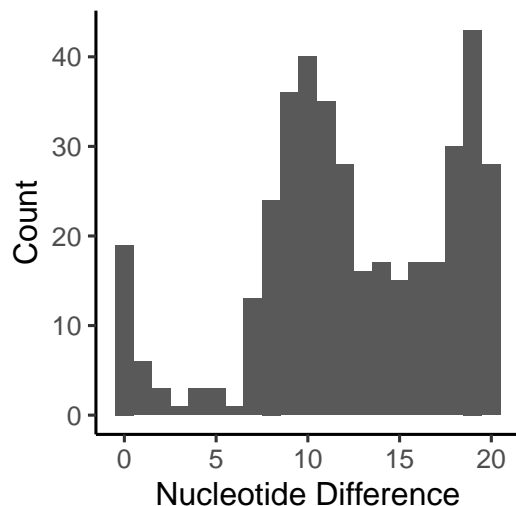
IGHV3-48*04

12 sequences assigned
No exact matches.



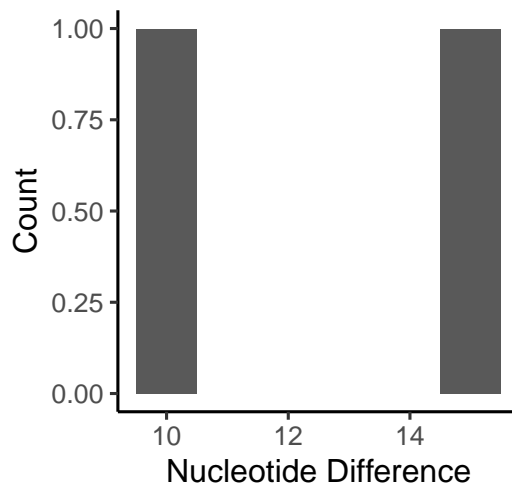
IGHV3-49*05

1103 sequences assigned
19 (1.7%) exact matches, in which:
18 unique CDR3
6 unique J



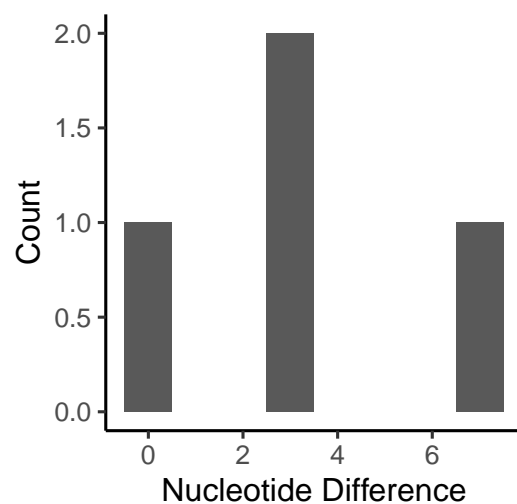
IGHV3-64*04

2 sequences assigned
No exact matches.



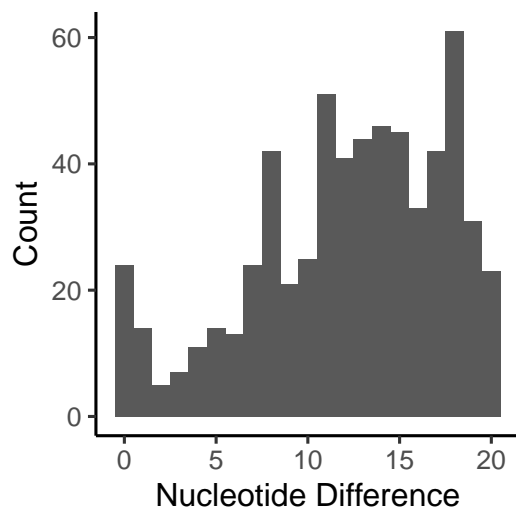
IGHV3-66*04

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



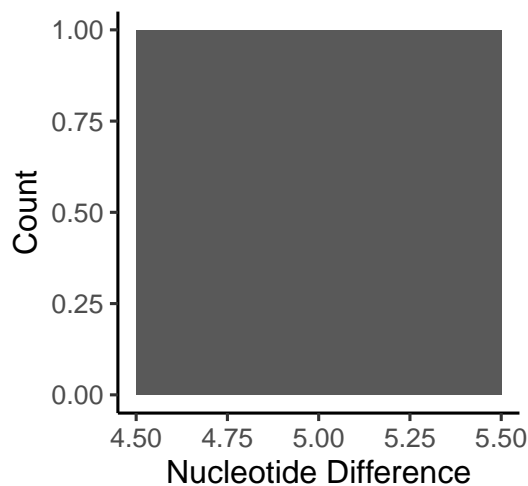
IGHV3-53*01

1127 sequences assigned
24 (2.1%) exact matches, in which:
24 unique CDR3
6 unique J



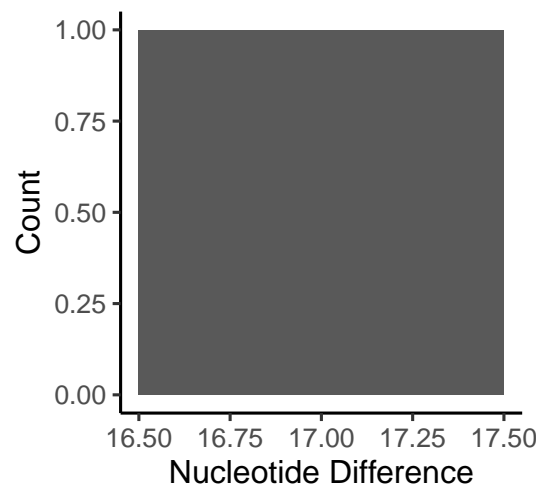
IGHV3-66*01

33 sequences assigned
No exact matches.



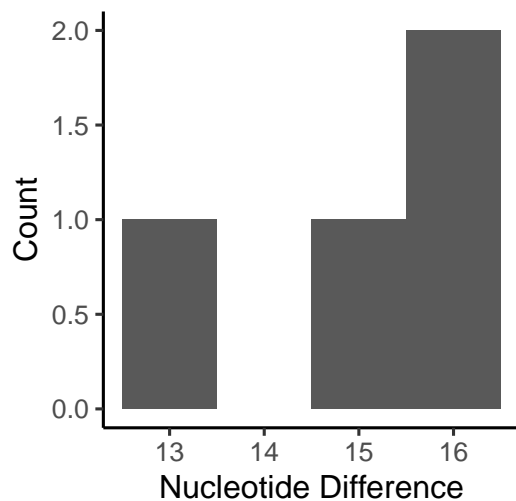
IGHV3-69-1*01

1 sequences assigned
No exact matches.



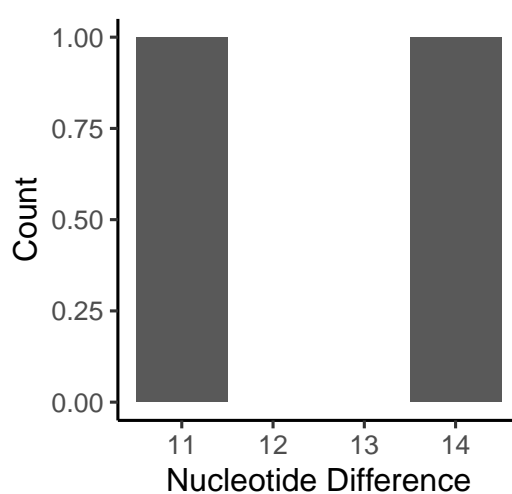
IGHV3-64*02

5 sequences assigned
No exact matches.



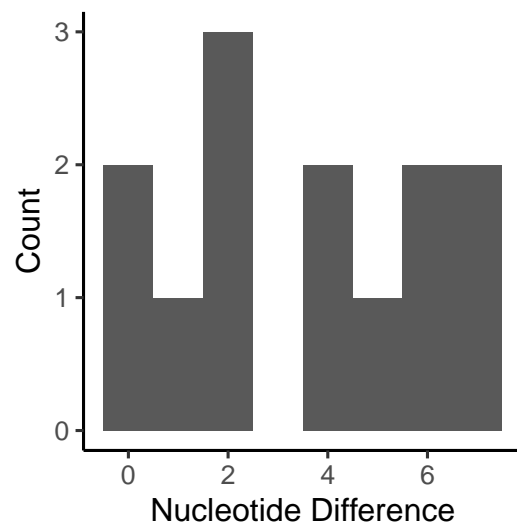
IGHV3-66*03

2 sequences assigned
No exact matches.



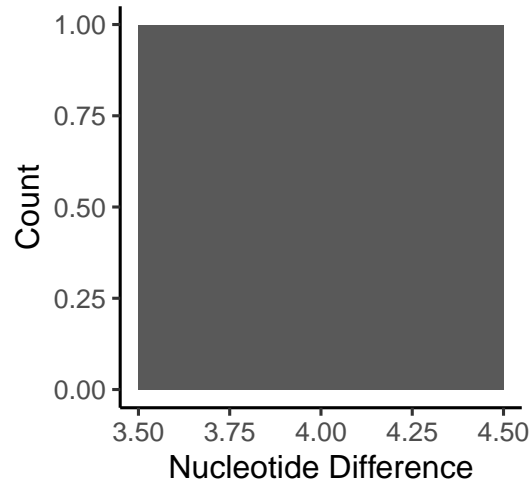
IGHV3-69-1*02

14 sequences assigned
2 (14.3%) exact matches, in which:
2 unique CDR3
2 unique J



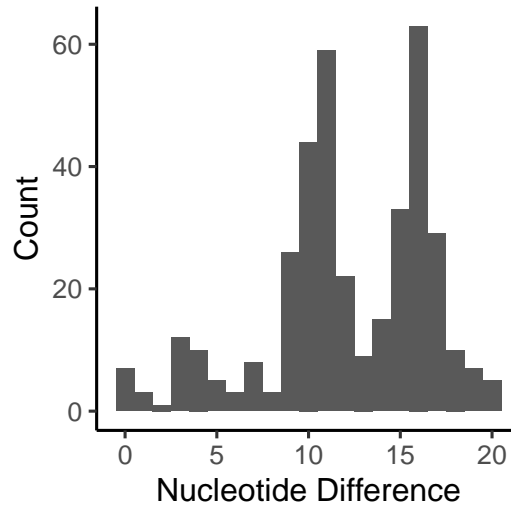
IGHV3-71*01

1 sequences assigned
No exact matches.



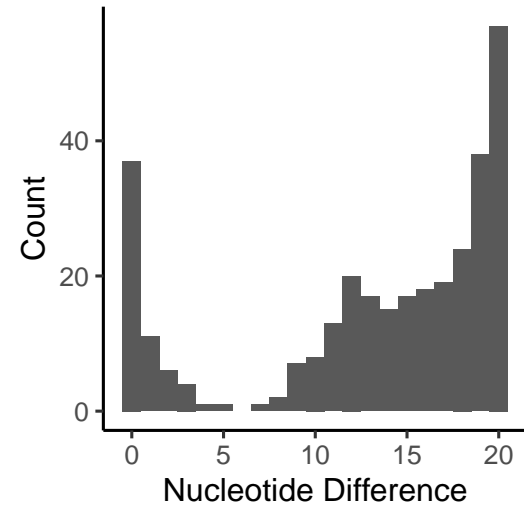
IGHV3-73*02

493 sequences assigned
7 (1.4%) exact matches, in which:
7 unique CDR3
4 unique J



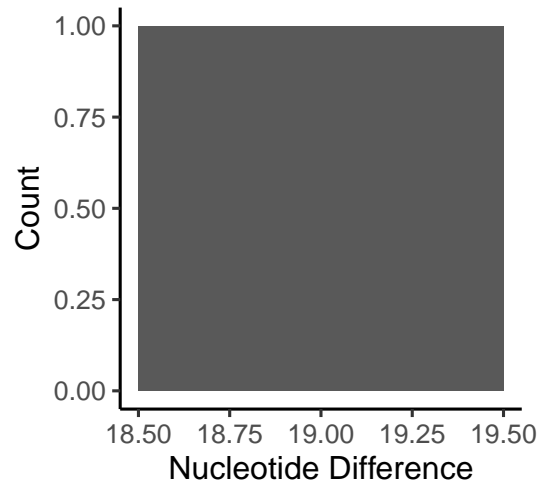
IGHV4-4*07

719 sequences assigned
37 (5.1%) exact matches, in which:
36 unique CDR3
6 unique J



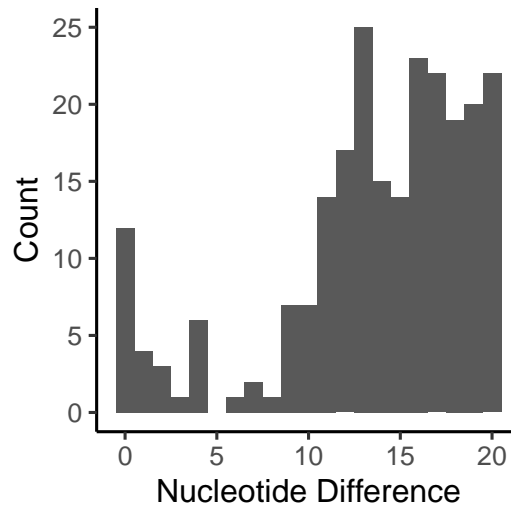
IGHV3-71*02

1 sequences assigned
No exact matches.



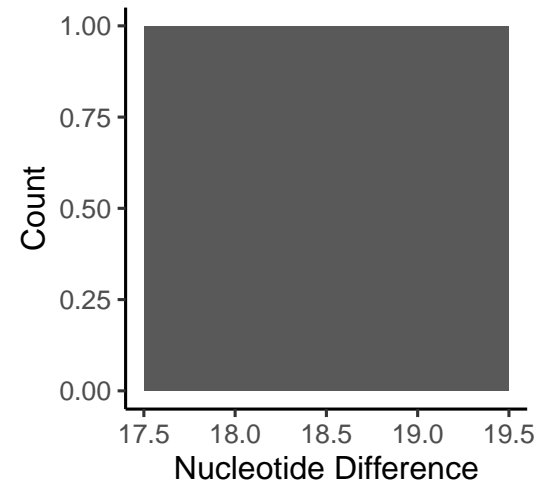
IGHV3-74*01

570 sequences assigned
12 (2.1%) exact matches, in which:
10 unique CDR3
5 unique J



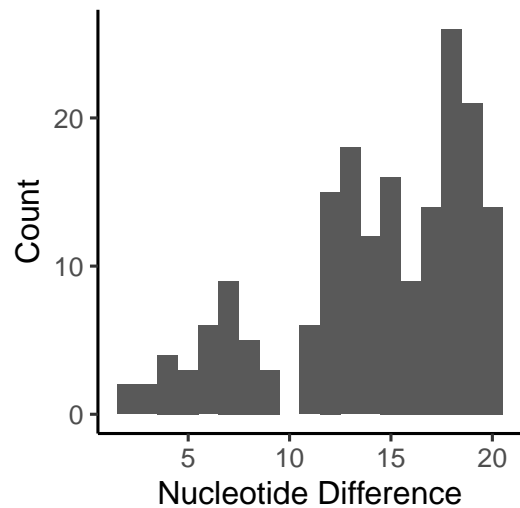
IGHV4-28*01

4 sequences assigned
No exact matches.



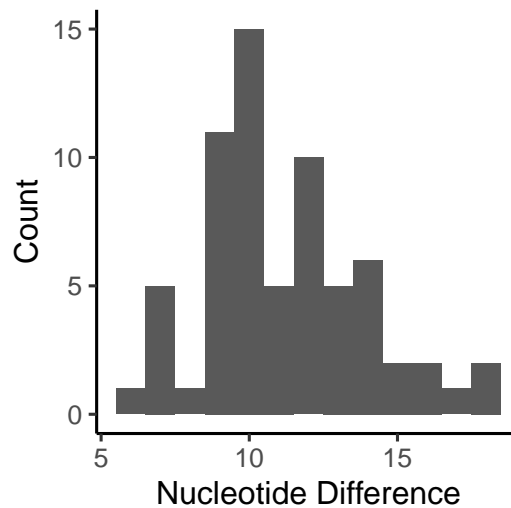
IGHV3-72*01

230 sequences assigned
No exact matches.



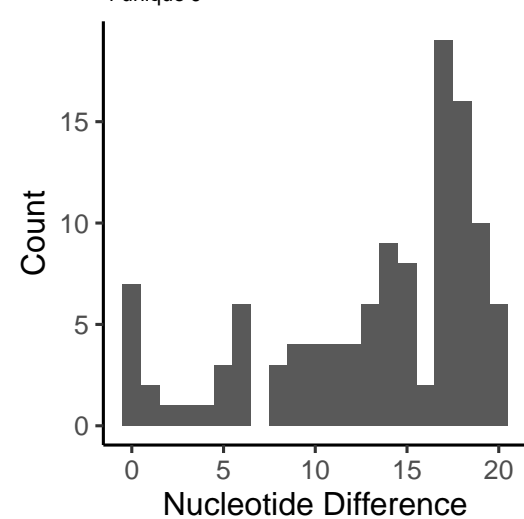
IGHV3-74*03

136 sequences assigned
No exact matches.



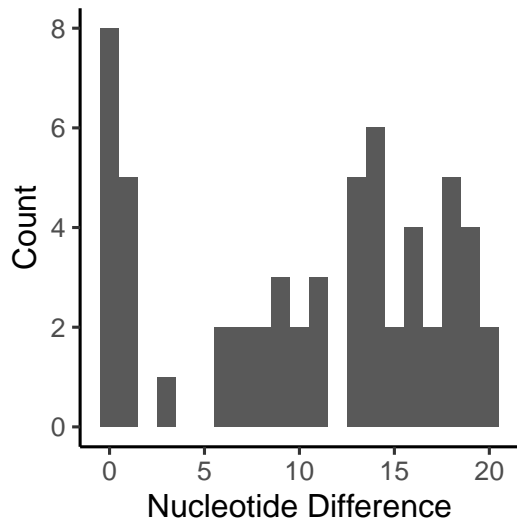
IGHV4-30-4*01

483 sequences assigned
7 (1.4%) exact matches, in which:
7 unique CDR3
4 unique J



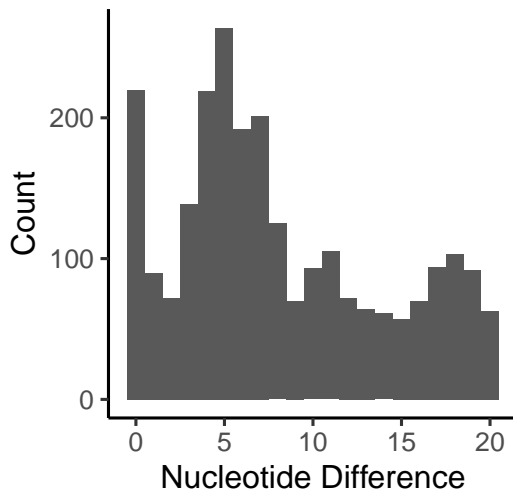
IGHV4-30-2*01

268 sequences assigned
8 (3%) exact matches, in which:
8 unique CDR3
4 unique J



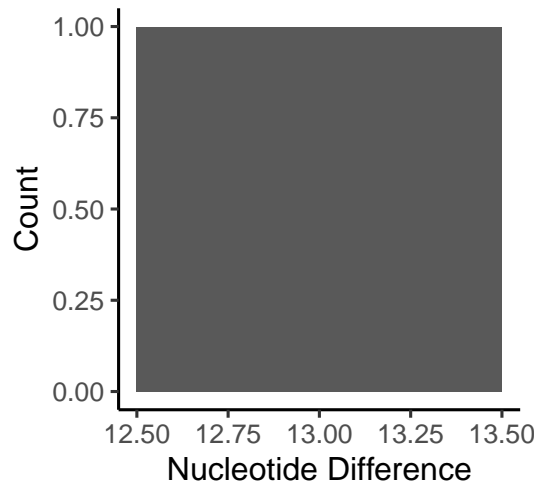
IGHV4-34*01

3984 sequences assigned
220 (5.5%) exact matches, in which:
194 unique CDR3
7 unique J



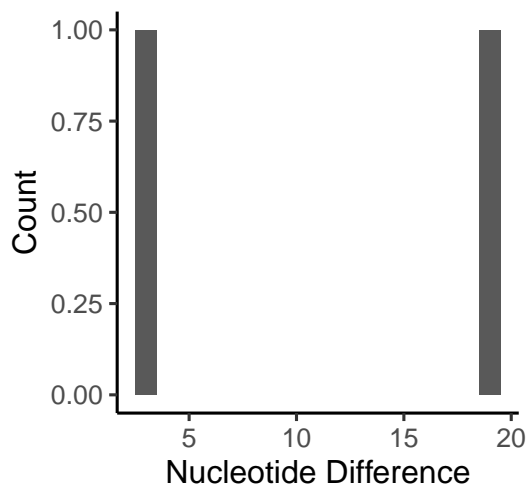
IGHV4-55*08

1 sequences assigned
No exact matches.



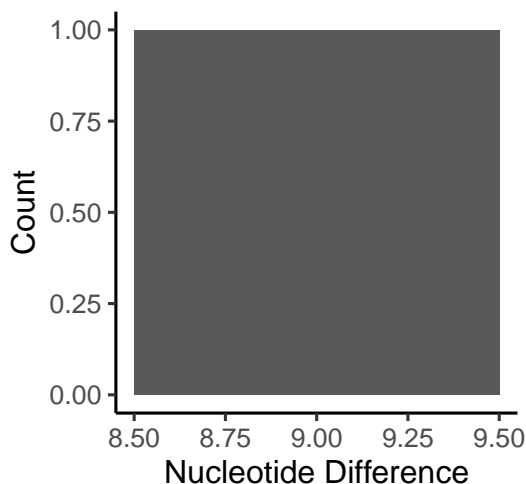
IGHV4-30-2*03

3 sequences assigned
No exact matches.



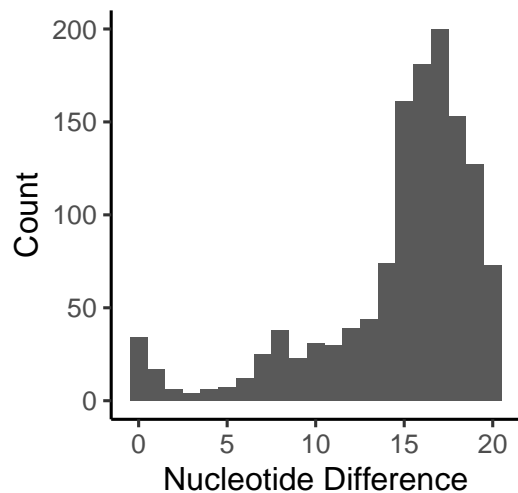
IGHV4-38-2*02

12 sequences assigned
No exact matches.



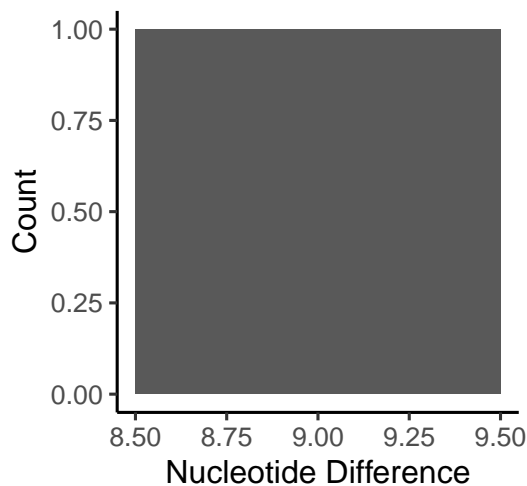
IGHV4-59*01

1985 sequences assigned
34 (1.7%) exact matches, in which:
29 unique CDR3
6 unique J



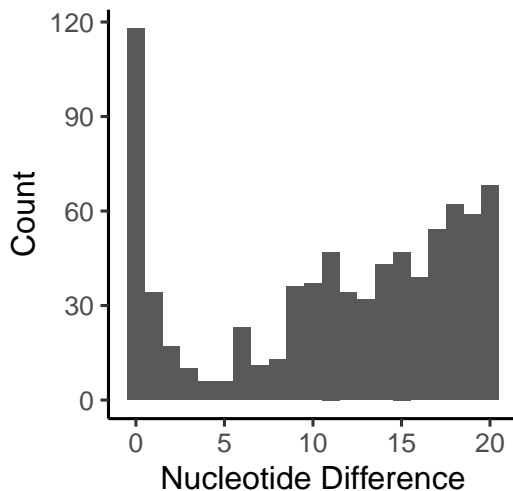
IGHV4-30-2*05

1 sequences assigned
No exact matches.



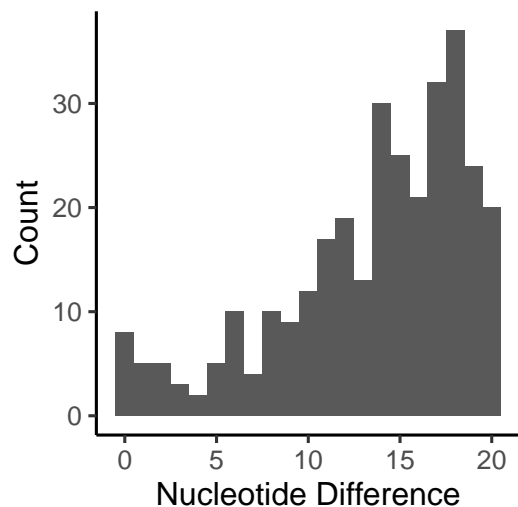
IGHV4-39*01

2205 sequences assigned
118 (5.4%) exact matches, in which:
109 unique CDR3
7 unique J



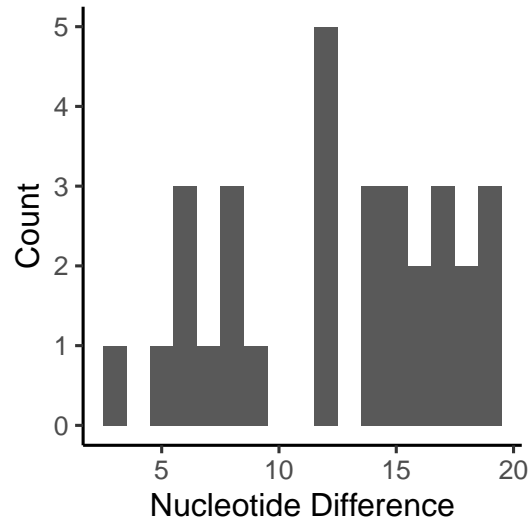
IGHV4-61*01

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



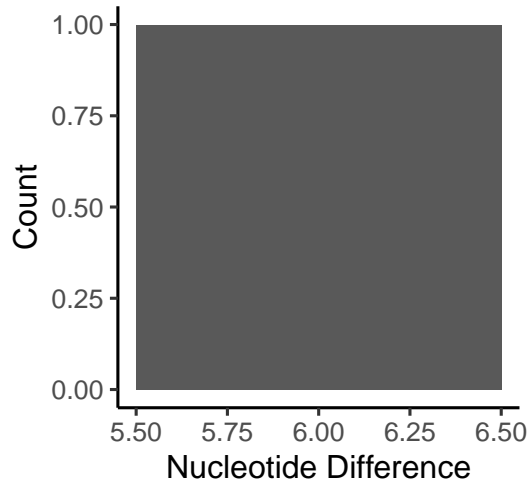
IGHV4–61*03

139 sequences assigned
No exact matches.



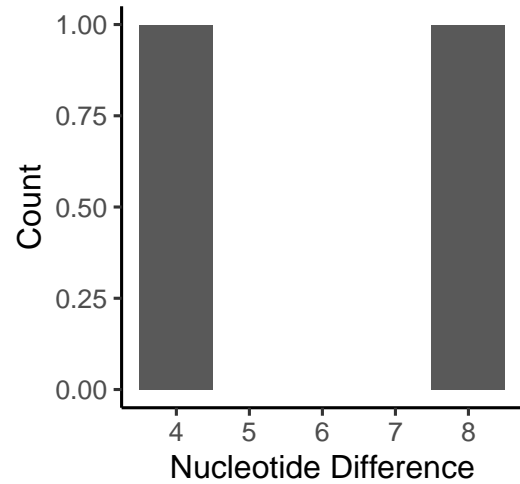
IGHV1/OR15–1*03

1 sequences assigned
No exact matches.



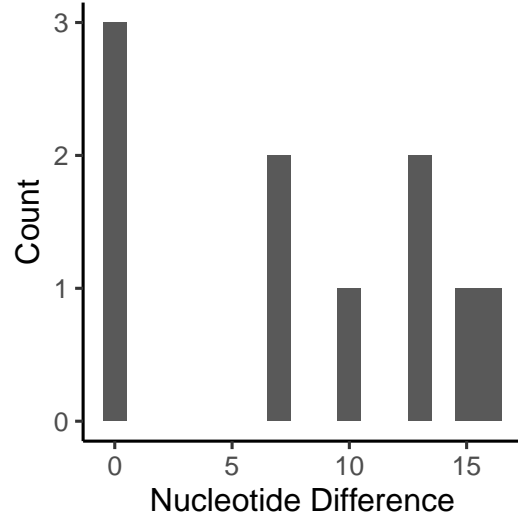
IGHV5–10–1*03

2 sequences assigned
No exact matches.



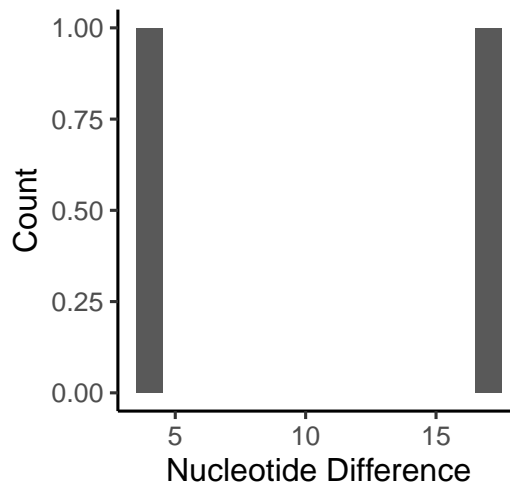
IGHV4–61*07

16 sequences assigned
3 (18.8%) exact matches, in which:
3 unique CDR3
2 unique J



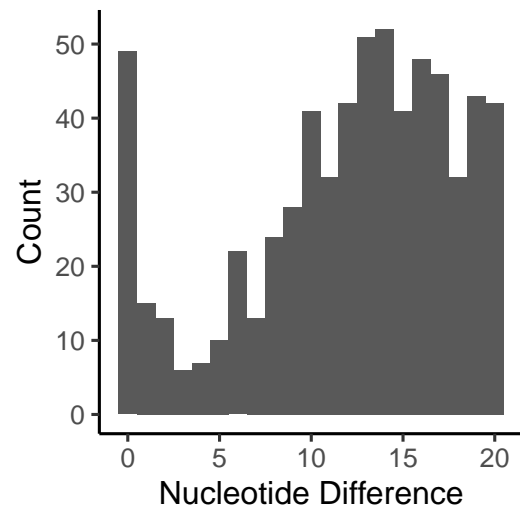
IGHV1/OR15–1*04

6 sequences assigned
No exact matches.



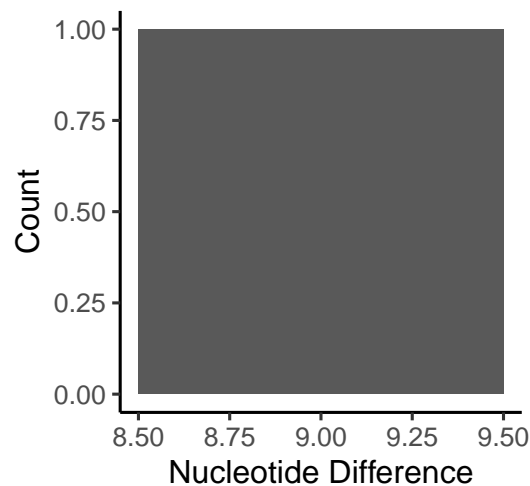
IGHV5–51*01

1081 sequences assigned
49 (4.5%) exact matches, in which:
48 unique CDR3
6 unique J



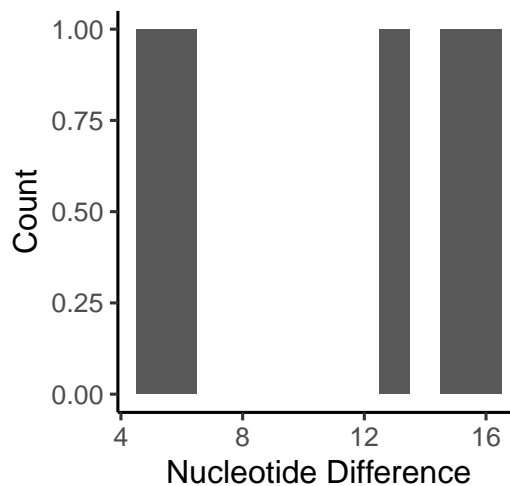
IGHV1/OR15–1*02

1 sequences assigned
No exact matches.



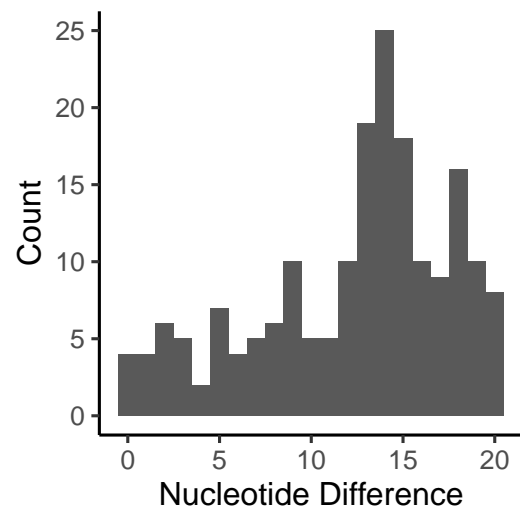
IGHV4/OR15–8*02

7 sequences assigned
No exact matches.



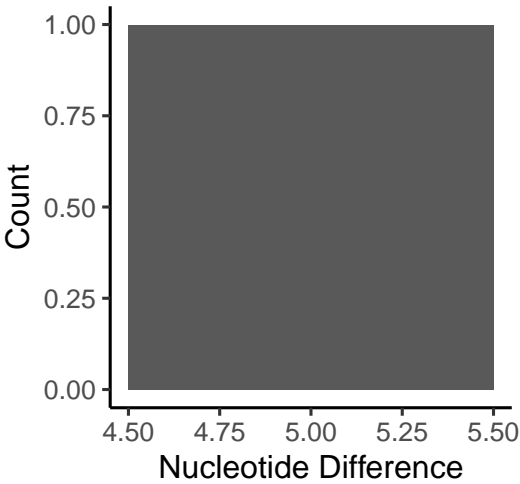
IGHV6–1*01

285 sequences assigned
4 (1.4%) exact matches, in which:
4 unique CDR3
3 unique J



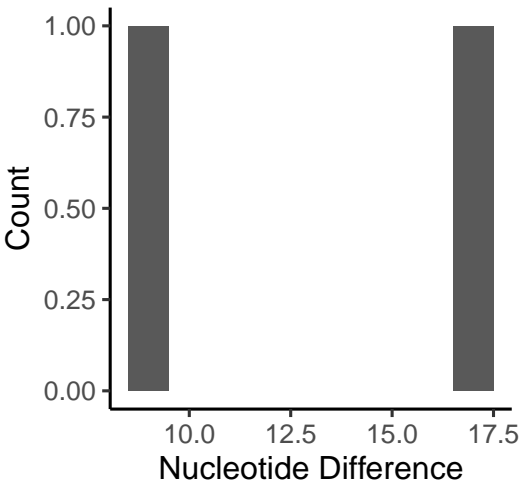
IGHV3/OR16-8*01

1 sequences assigned
No exact matches.



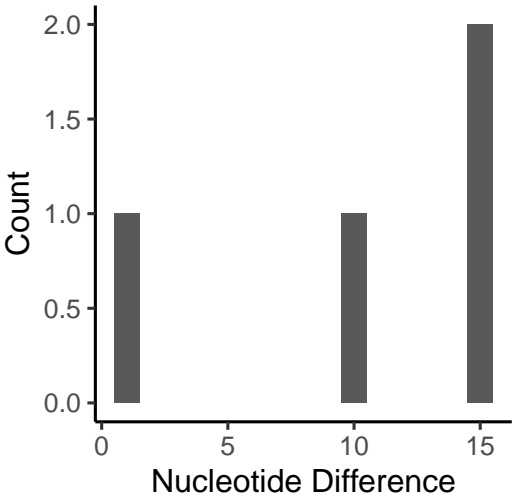
IGHV3/OR16-9*01

2 sequences assigned
No exact matches.

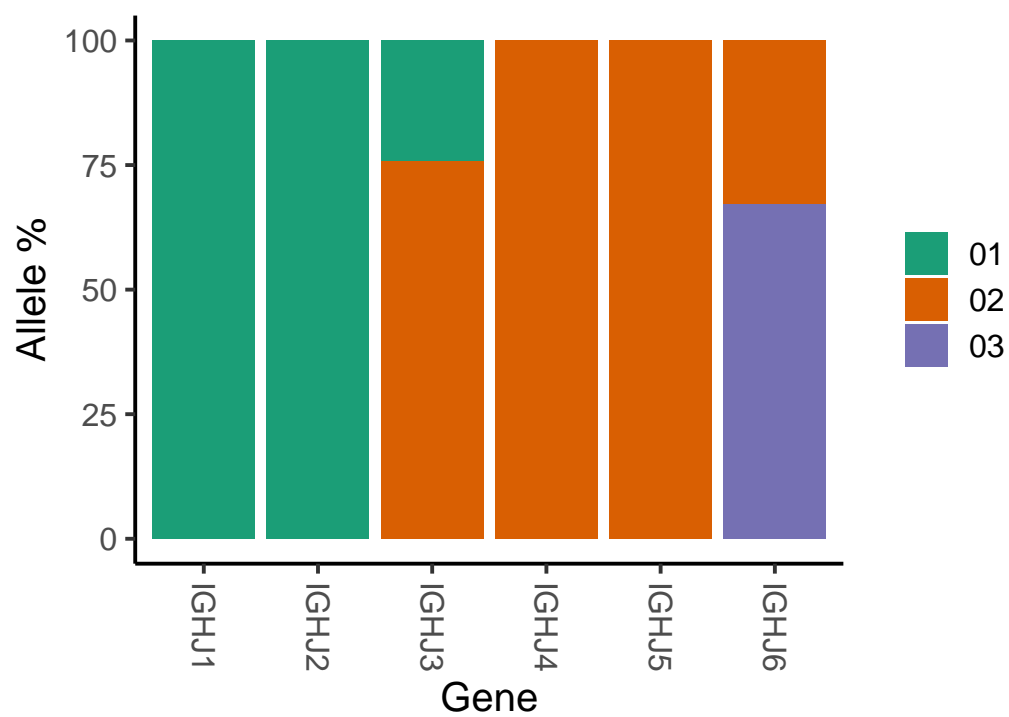


IGHV3/OR16-12*01

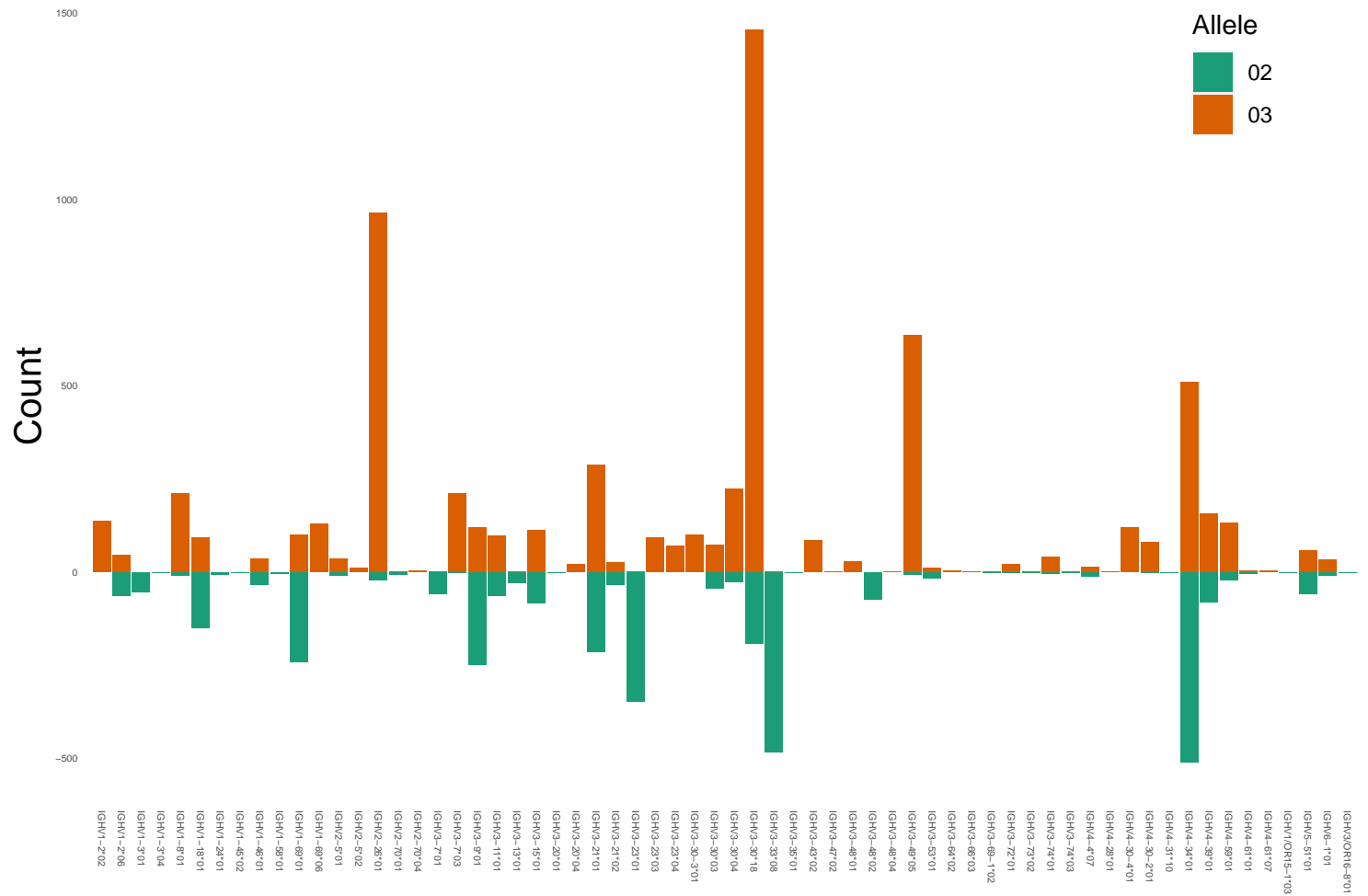
4 sequences assigned
No exact matches.



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.