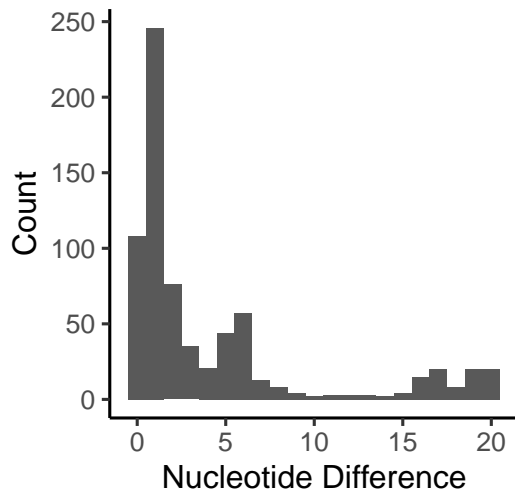


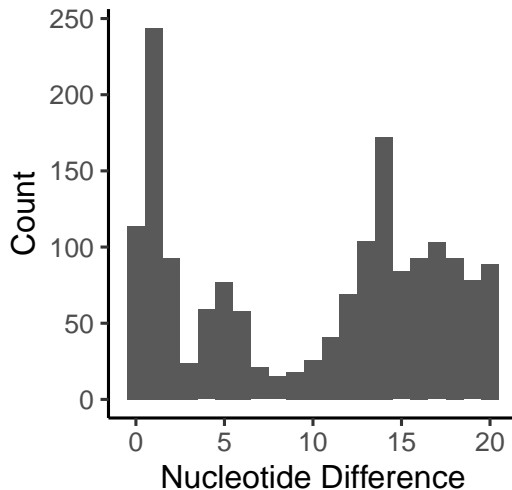
IGHV1-2*05

749 sequences assigned
108 (14.4%) exact matches, in which:
56 unique CDR3
1 unique J



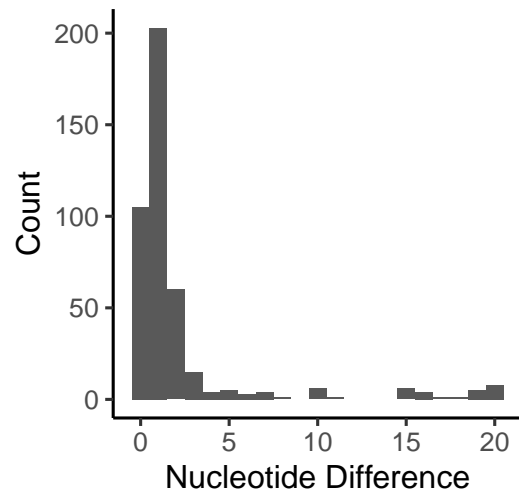
IGHV1-3*01_05

2572 sequences assigned
114 (4.4%) exact matches, in which:
72 unique CDR3
5 unique J



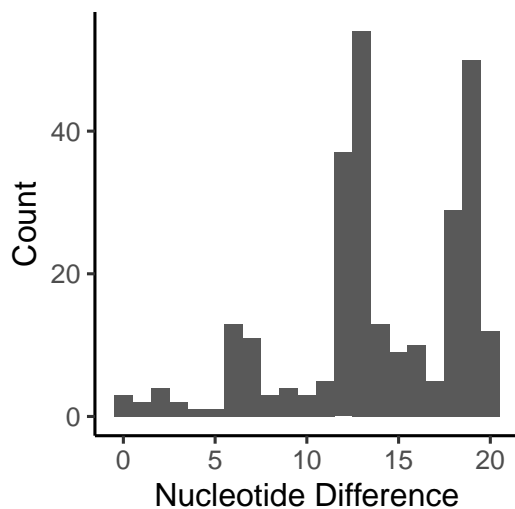
IGHV1-24*01

440 sequences assigned
105 (23.9%) exact matches, in which:
62 unique CDR3
4 unique J



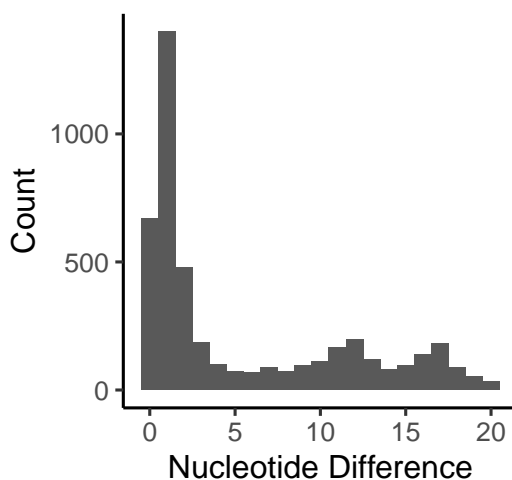
IGHV1-2*06

366 sequences assigned
3 (0.8%) exact matches, in which:
3 unique CDR3
2 unique J



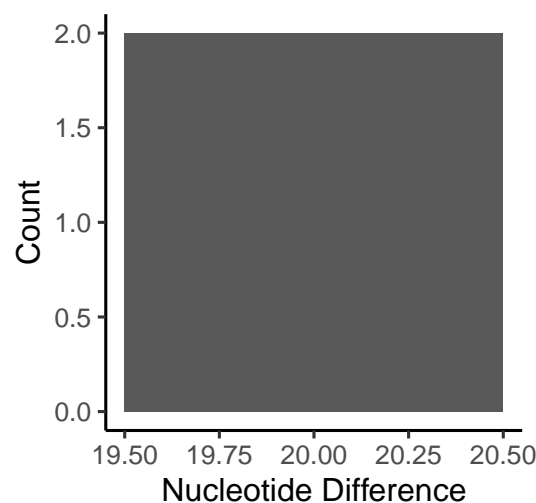
IGHV1-8*01

5542 sequences assigned
670 (12.1%) exact matches, in which:
386 unique CDR3
6 unique J



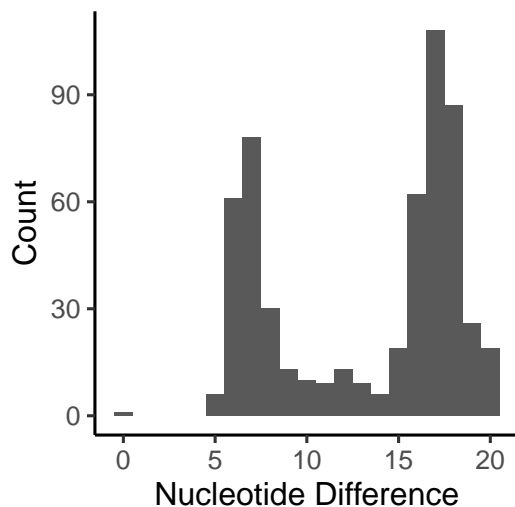
IGHV1-45*02

274 sequences assigned
No exact matches.



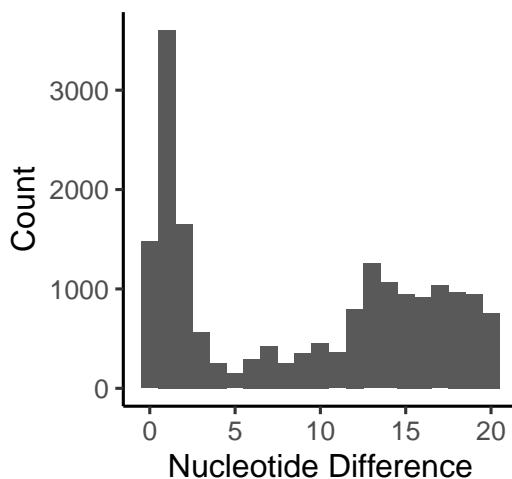
IGHV1-3*04

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



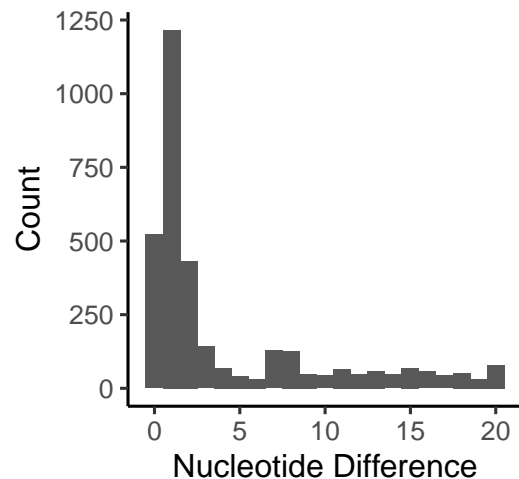
IGHV1-18*01

25272 sequences assigned
1476 (5.8%) exact matches, in which:
856 unique CDR3
7 unique J



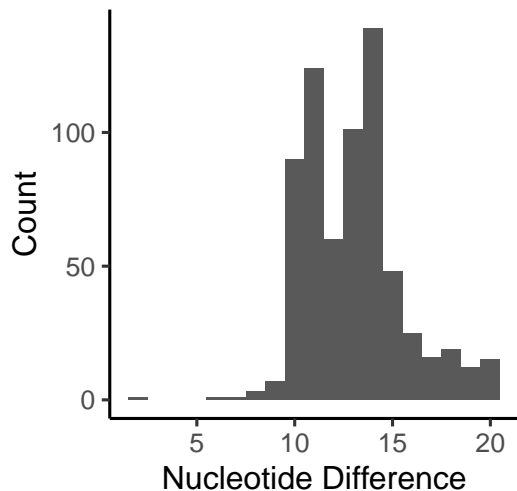
IGHV1-46*01

3785 sequences assigned
522 (13.8%) exact matches, in which:
296 unique CDR3
6 unique J



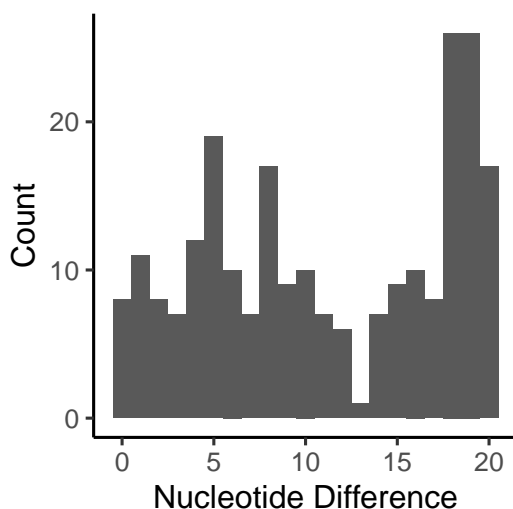
IGHV1-46*04

722 sequences assigned
No exact matches.



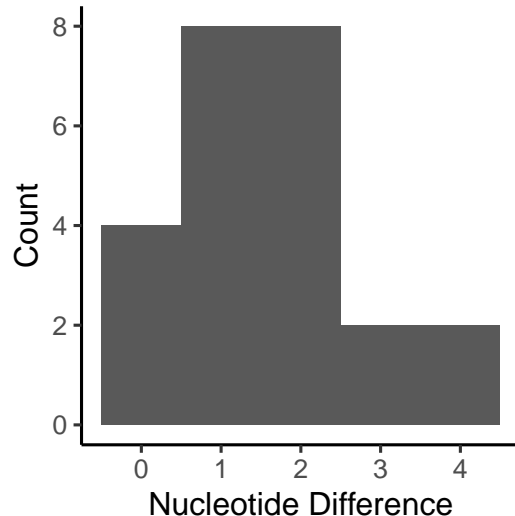
IGHV2-5*02

341 sequences assigned
8 (2.3%) exact matches, in which:
6 unique CDR3
4 unique J



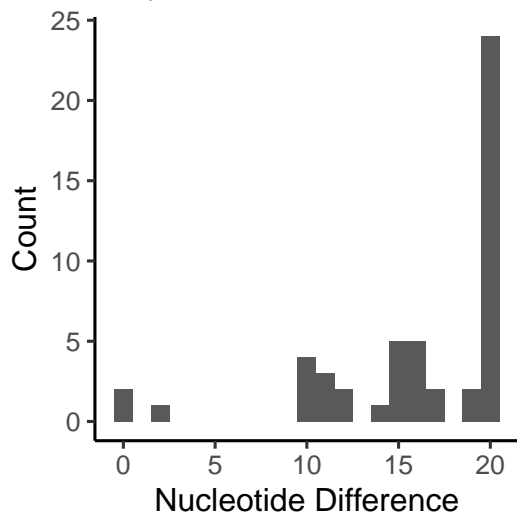
IGHV2-70*01

24 sequences assigned
4 (16.7%) exact matches, in which:
2 unique CDR3
1 unique J



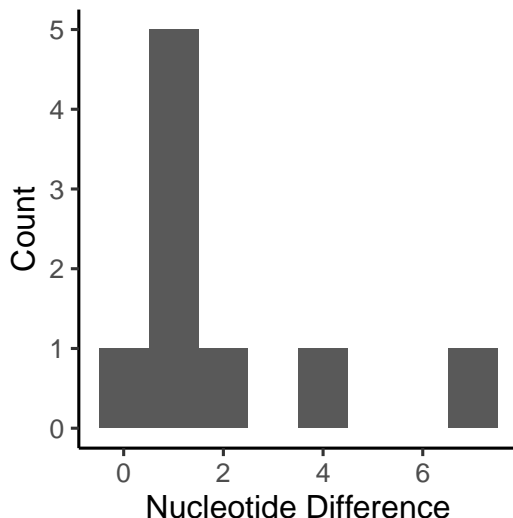
IGHV1-58*01_03

157 sequences assigned
2 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



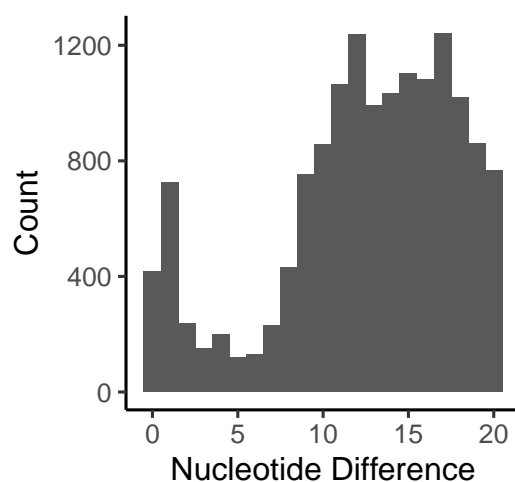
IGHV2-26*01

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



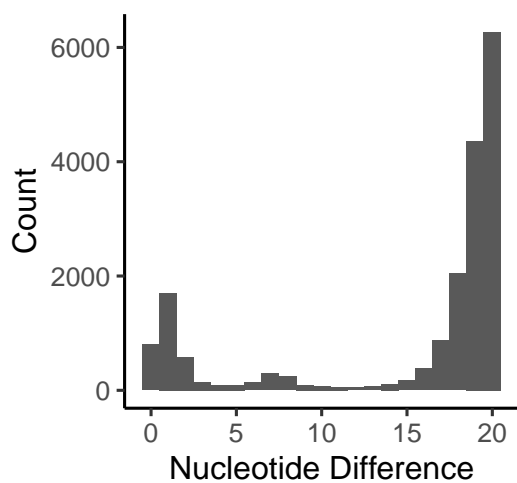
IGHV3-7*01

19411 sequences assigned
416 (2.1%) exact matches, in which:
254 unique CDR3
8 unique J



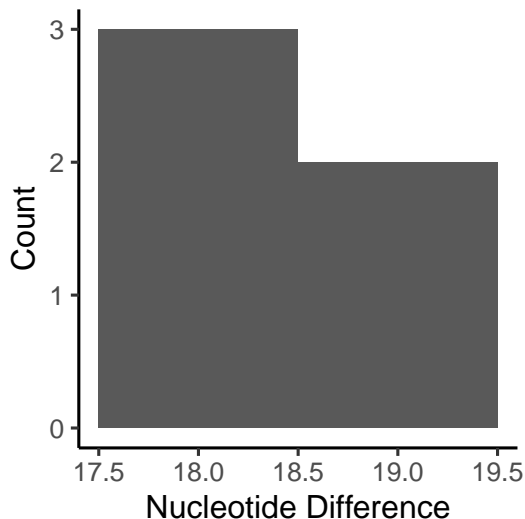
IGHV1-69*01_12_13

37719 sequences assigned
804 (2.1%) exact matches, in which:
493 unique CDR3
7 unique J



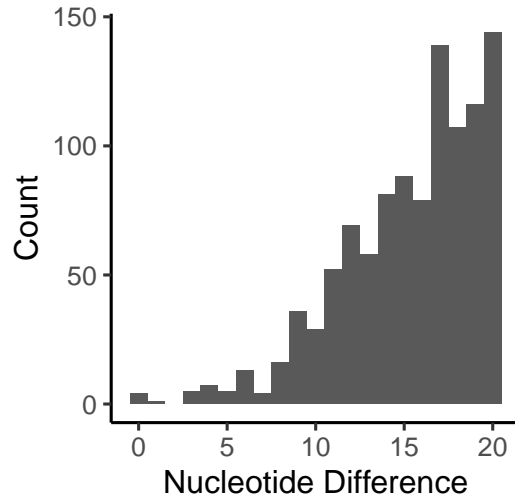
IGHV2-26*03

5 sequences assigned
No exact matches.



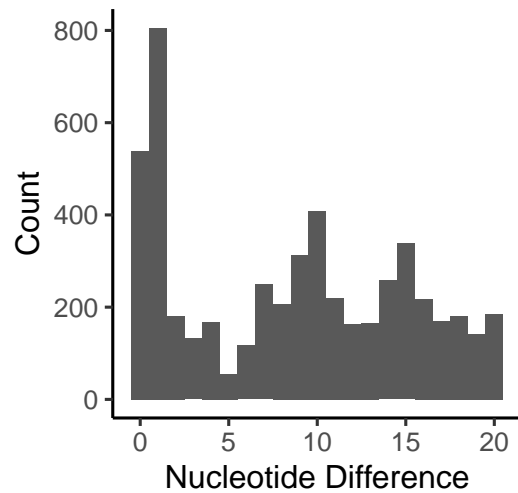
IGHV3-7*03

1661 sequences assigned
4 (0.2%) exact matches, in which:
4 unique CDR3
2 unique J



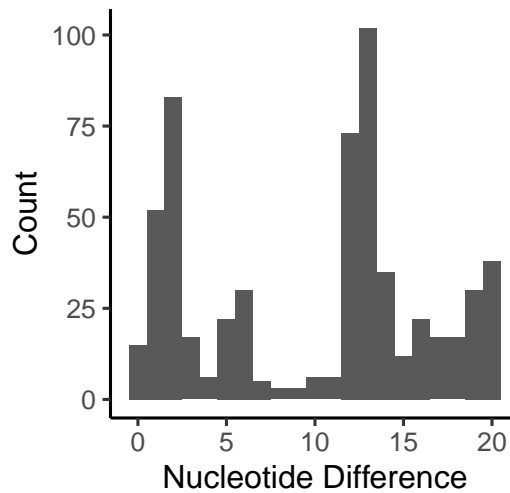
IGHV3-9*01

12642 sequences assigned
538 (4.3%) exact matches, in which:
324 unique CDR3
8 unique J



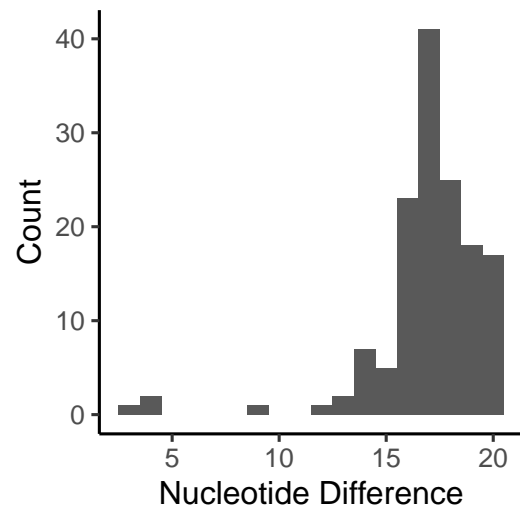
IGHV3-13*01

999 sequences assigned
15 (1.5%) exact matches, in which:
5 unique CDR3
1 unique J



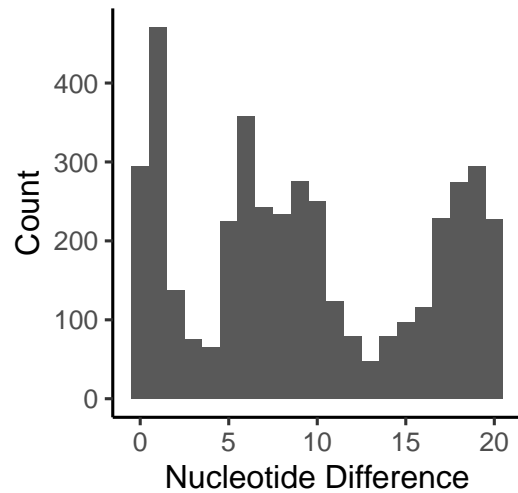
IGHV3-20*03_04

250 sequences assigned
No exact matches.



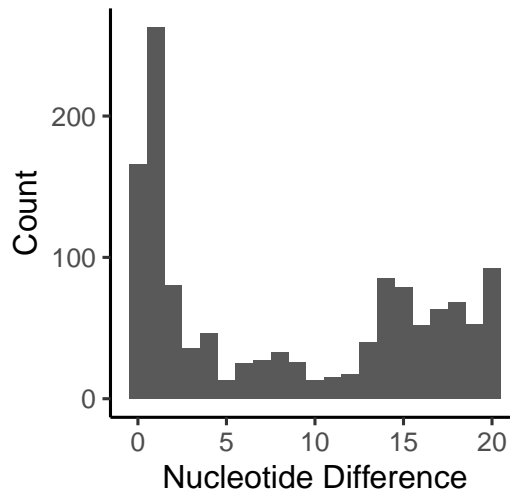
IGHV3-11*01

5300 sequences assigned
294 (5.5%) exact matches, in which:
185 unique CDR3
7 unique J



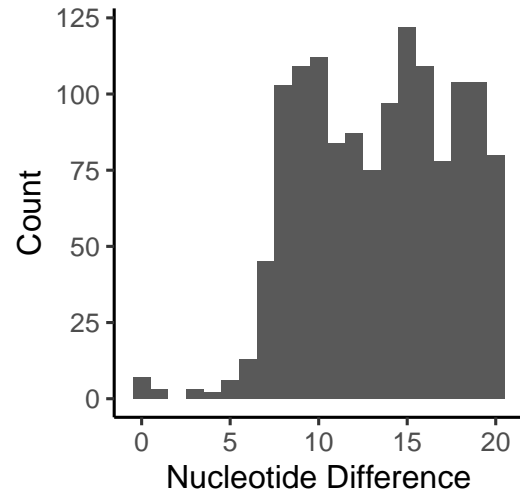
IGHV3-15*01_02

3639 sequences assigned
166 (4.6%) exact matches, in which:
114 unique CDR3
4 unique J



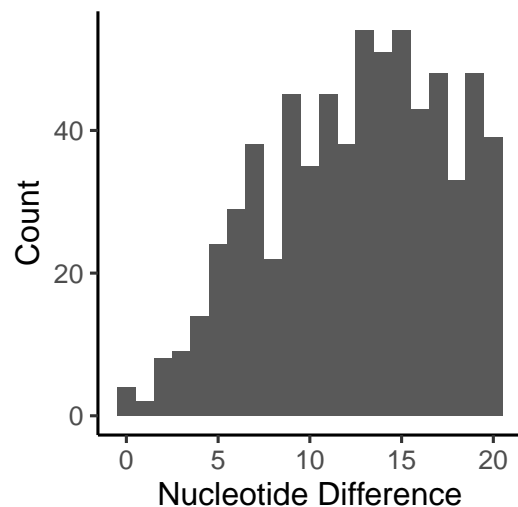
IGHV3-21*04

2232 sequences assigned
7 (0.3%) exact matches, in which:
7 unique CDR3
4 unique J



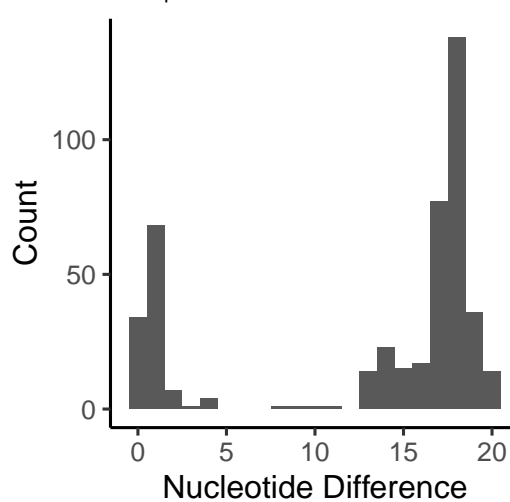
IGHV3-11*04

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



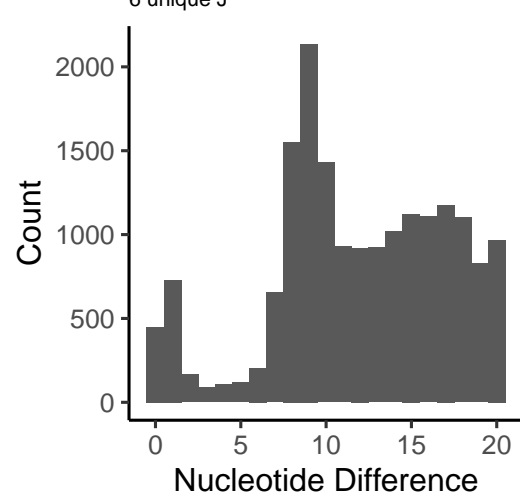
IGHV3-20*01_02

495 sequences assigned
34 (6.9%) exact matches, in which:
24 unique CDR3
3 unique J



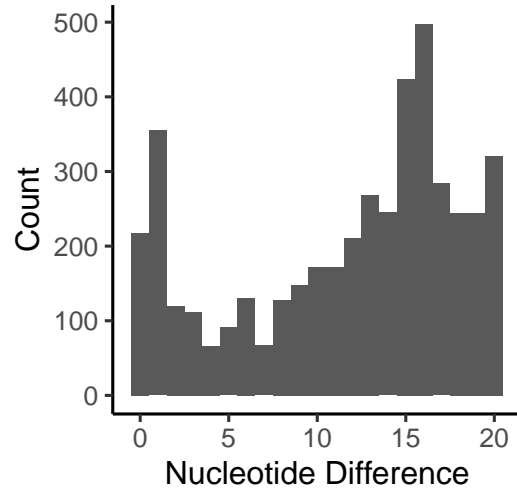
IGHV3-21*01_02

22925 sequences assigned
450 (2%) exact matches, in which:
243 unique CDR3
6 unique J



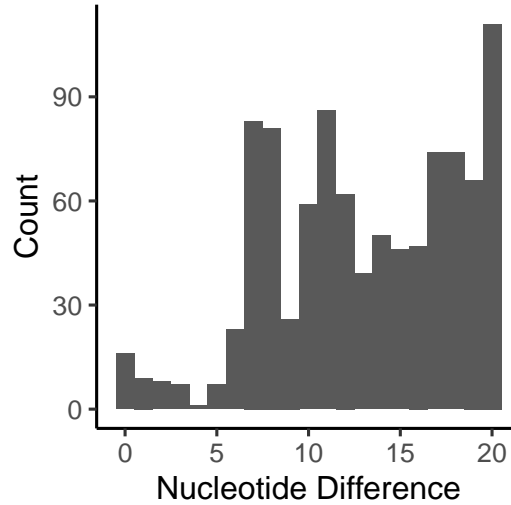
IGHV3-23*03

8399 sequences assigned
218 (2.6%) exact matches, in which:
133 unique CDR3
4 unique J



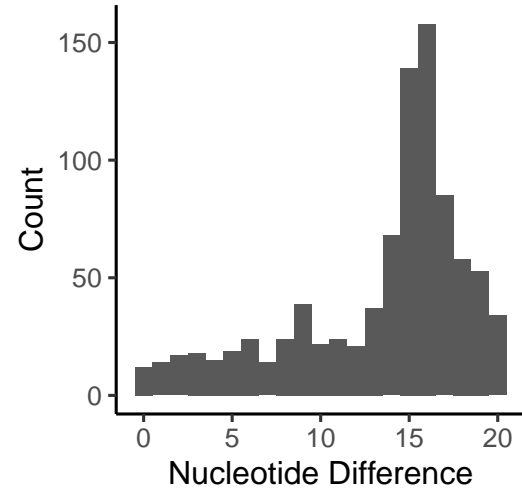
IGHV3-30*03

2609 sequences assigned
16 (0.6%) exact matches, in which:
16 unique CDR3
4 unique J



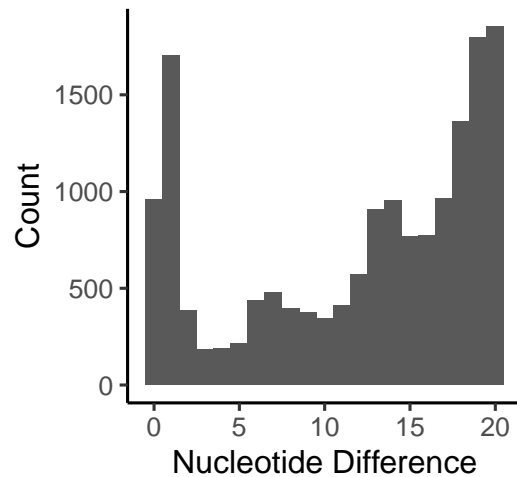
IGHV3-33*06

1210 sequences assigned
12 (1%) exact matches, in which:
11 unique CDR3
3 unique J



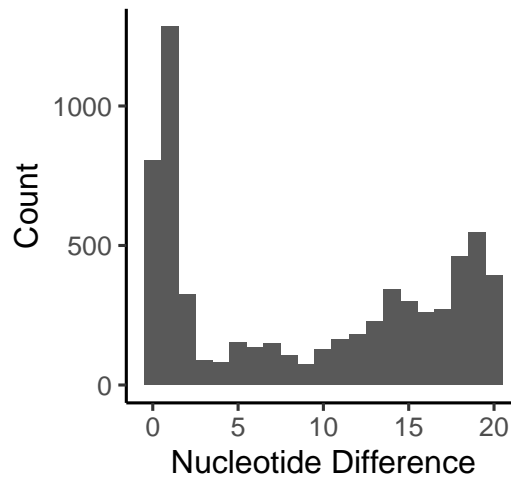
IGHV3-23*01_04

29027 sequences assigned
960 (3.3%) exact matches, in which:
586 unique CDR3
6 unique J



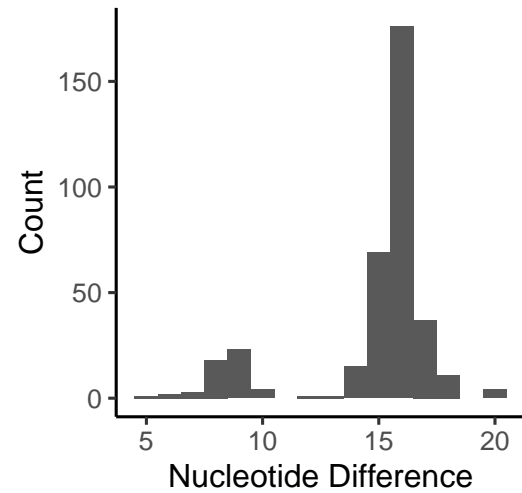
IGHV3-33*01

8071 sequences assigned
805 (10%) exact matches, in which:
463 unique CDR3
7 unique J



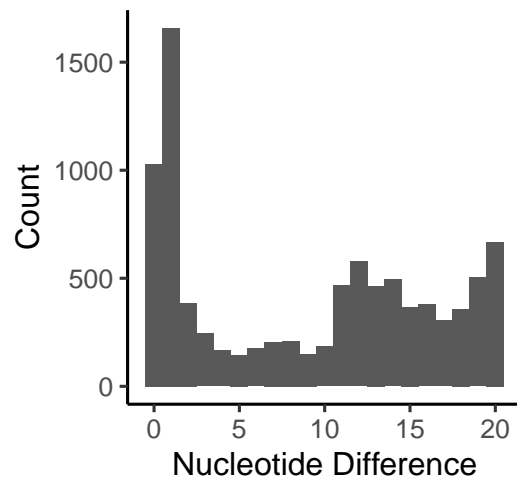
IGHV3-43*01

381 sequences assigned
No exact matches.



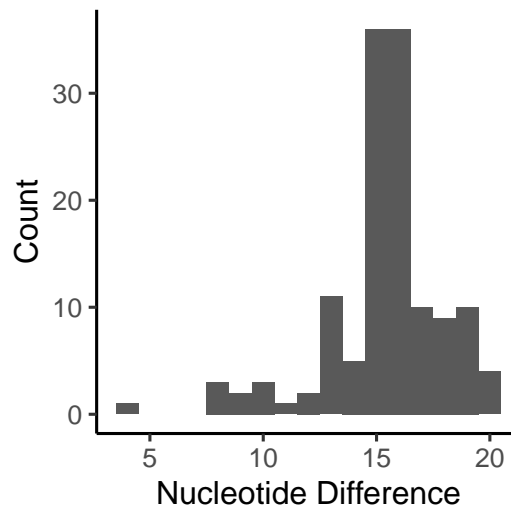
IGHV3-30-3*01

12484 sequences assigned
1030 (8.3%) exact matches, in which:
630 unique CDR3
6 unique J



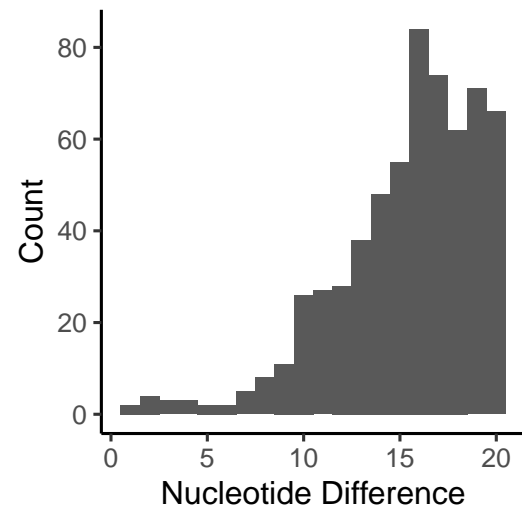
IGHV3-33*05

216 sequences assigned
No exact matches.



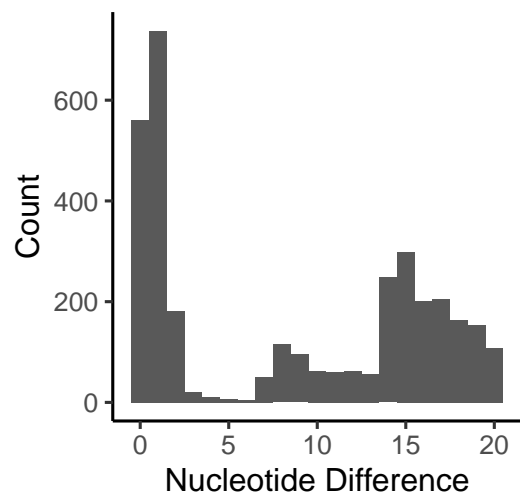
IGHV3-48*01

1288 sequences assigned
No exact matches.



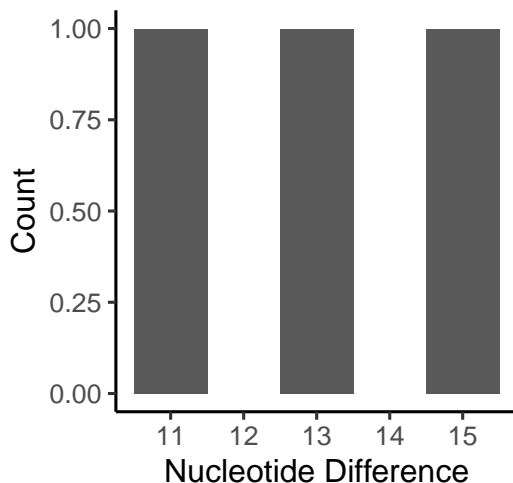
IGHV3-48*02

4645 sequences assigned
561 (12.1%) exact matches, in which:
373 unique CDR3
5 unique J



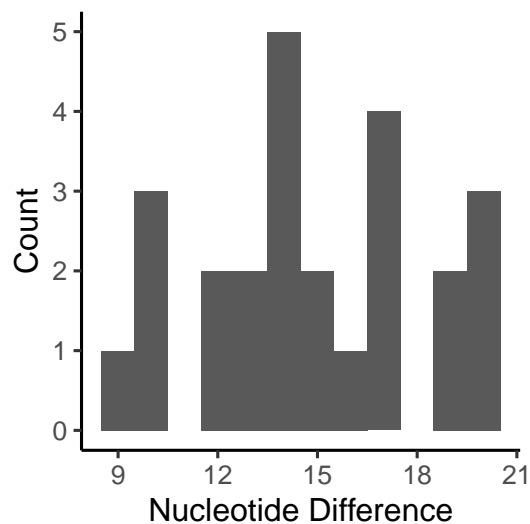
IGHV3-52*01_03

3 sequences assigned
No exact matches.



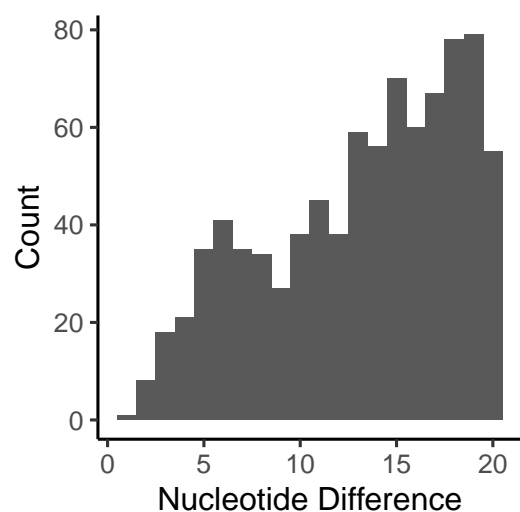
IGHV3-64*04

32 sequences assigned
No exact matches.



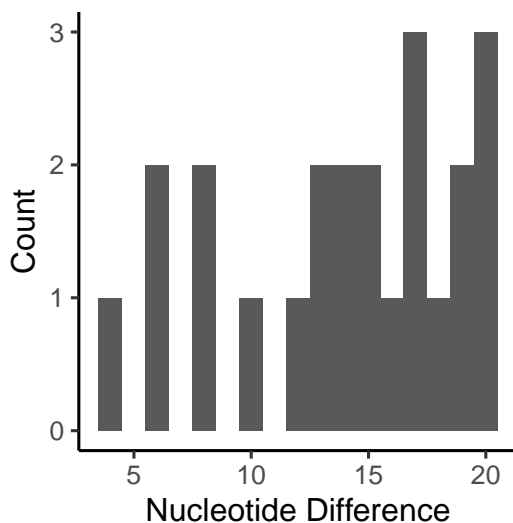
IGHV3-48*04

1141 sequences assigned
No exact matches.



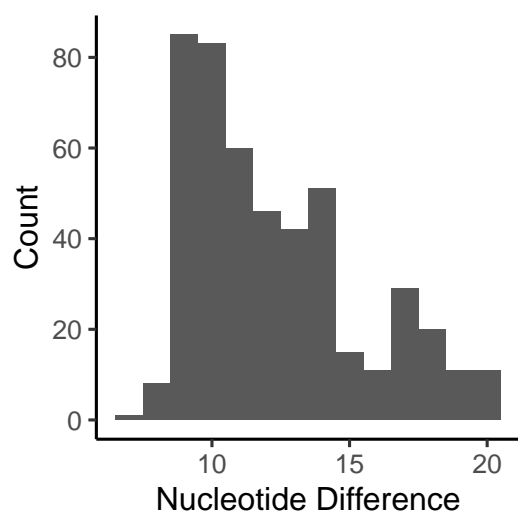
IGHV3-53*05

39 sequences assigned
No exact matches.



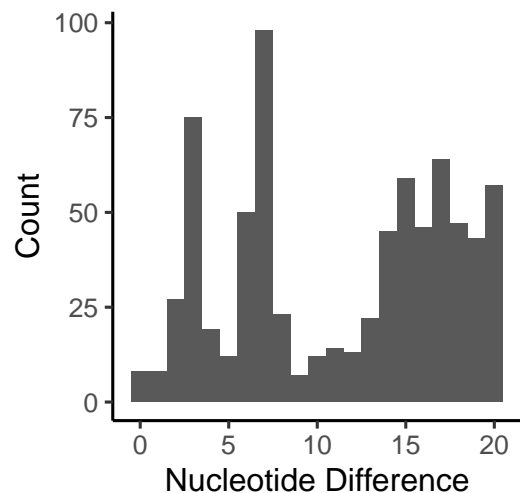
IGHV3-64*02_07

537 sequences assigned
No exact matches.



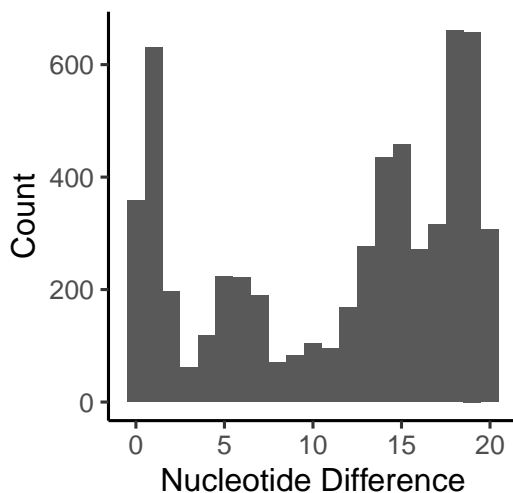
IGHV3-49*03_05

950 sequences assigned
8 (0.8%) exact matches, in which:
7 unique CDR3
3 unique J



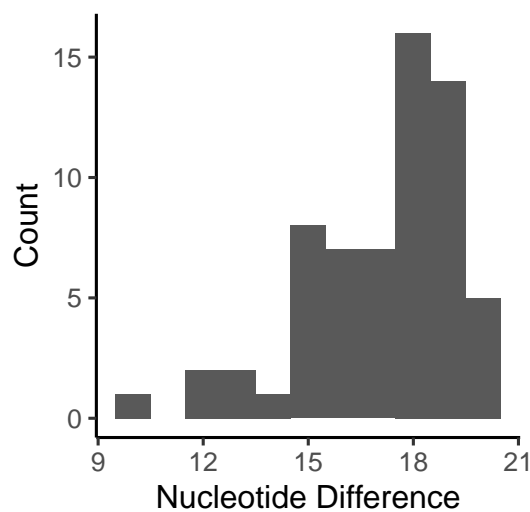
IGHV3-53*01_02

7907 sequences assigned
359 (4.5%) exact matches, in which:
225 unique CDR3
5 unique J



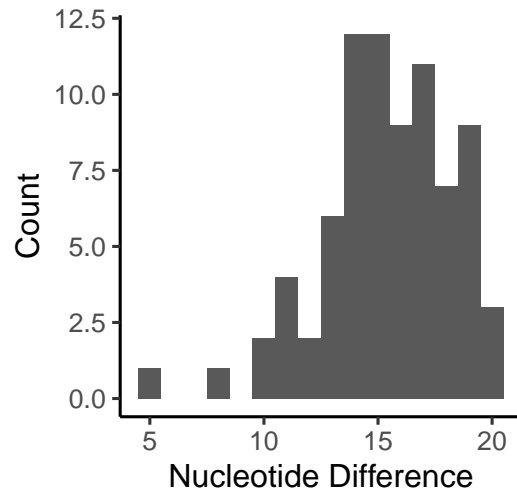
IGHV3-66*01

98 sequences assigned
No exact matches.



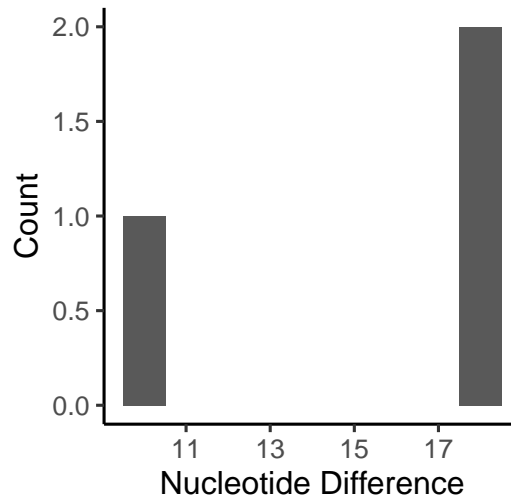
IGHV3-66*02

111 sequences assigned
No exact matches.



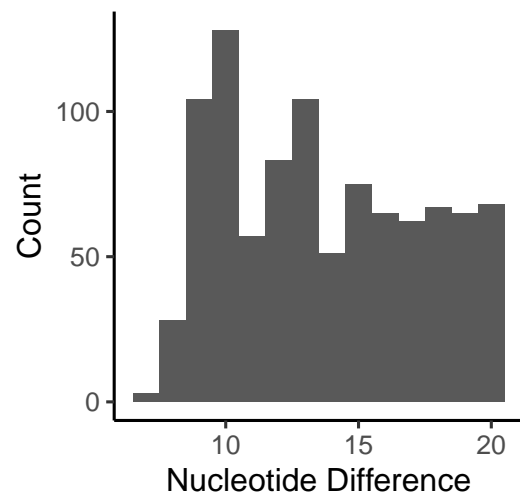
IGHV3-69-1*02

13 sequences assigned
No exact matches.



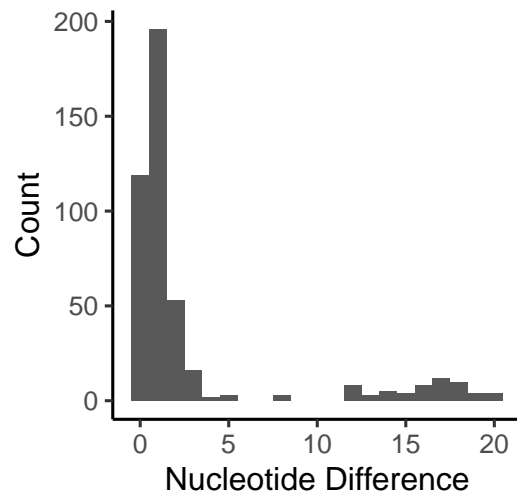
IGHV3-74*03

1667 sequences assigned
No exact matches.



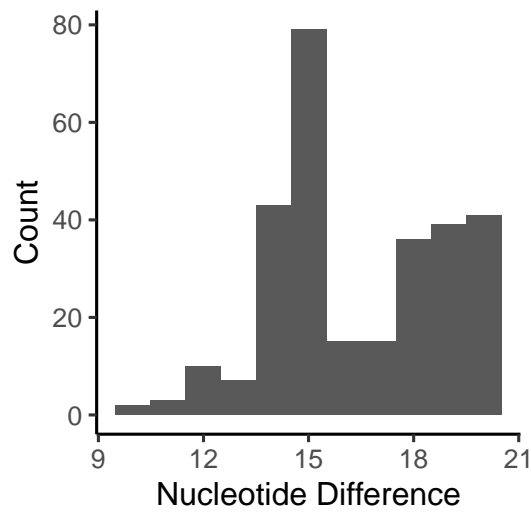
IGHV3-66*03

461 sequences assigned
119 (25.8%) exact matches, in which:
74 unique CDR3
4 unique J



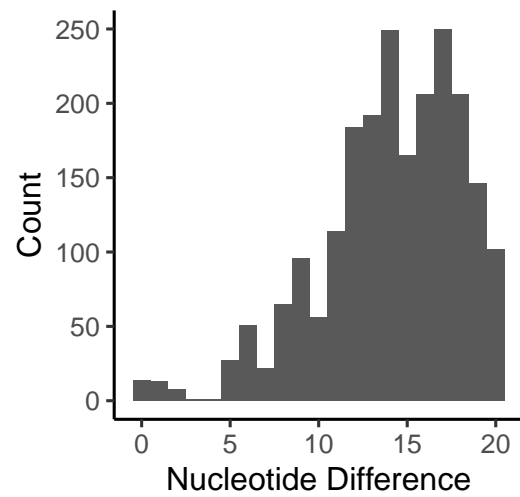
IGHV3-72*01

400 sequences assigned
No exact matches.



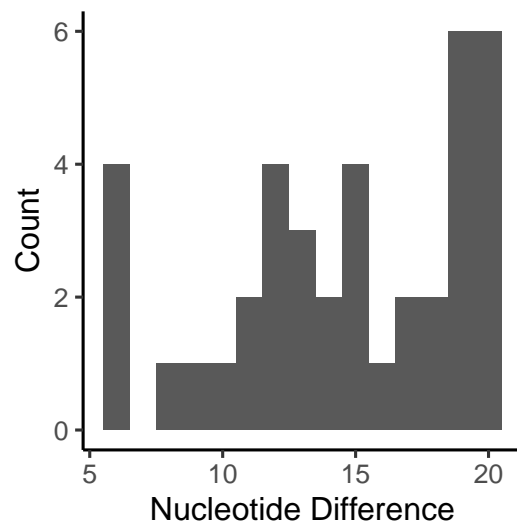
IGHV3-74*01_02

2583 sequences assigned
14 (0.5%) exact matches, in which:
8 unique CDR3
4 unique J



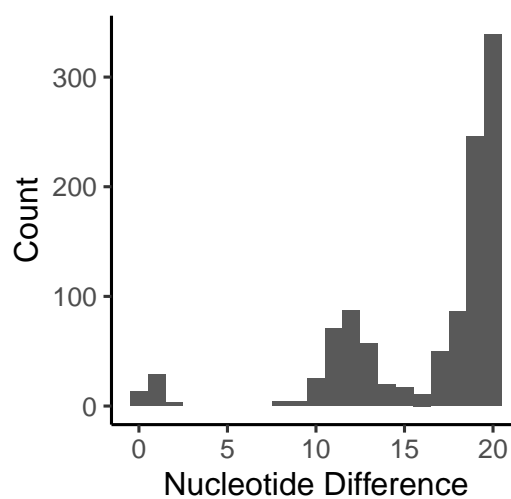
IGHV3-69-1*01

112 sequences assigned
No exact matches.



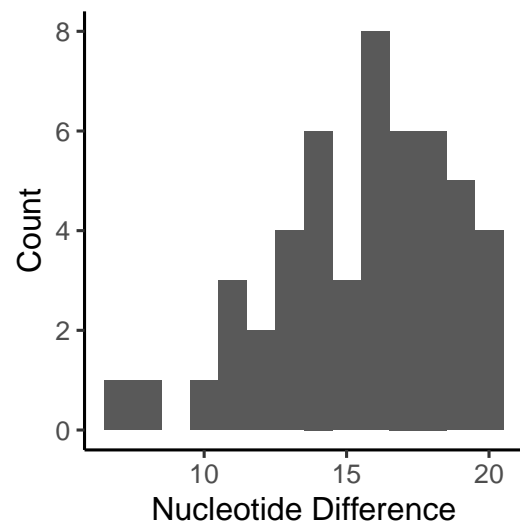
IGHV3-73*01_02

1472 sequences assigned
13 (0.9%) exact matches, in which:
7 unique CDR3
2 unique J



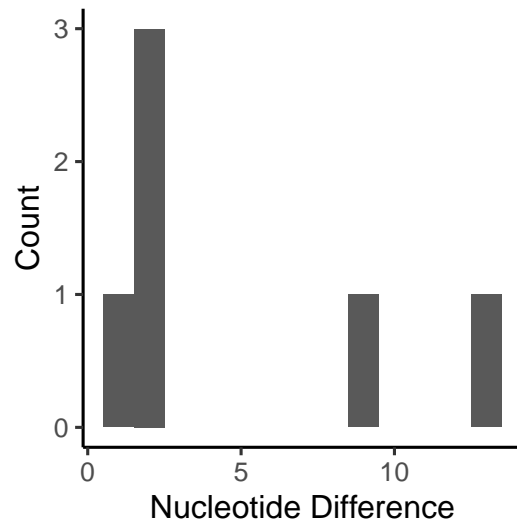
IGHV3-NL1*01

123 sequences assigned
No exact matches.



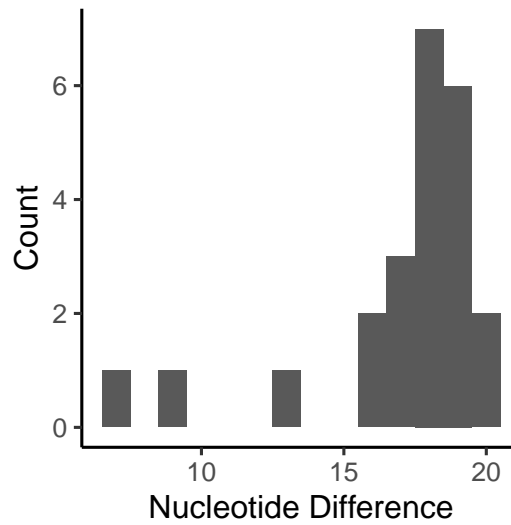
IGHV4-4*07

51 sequences assigned
No exact matches.



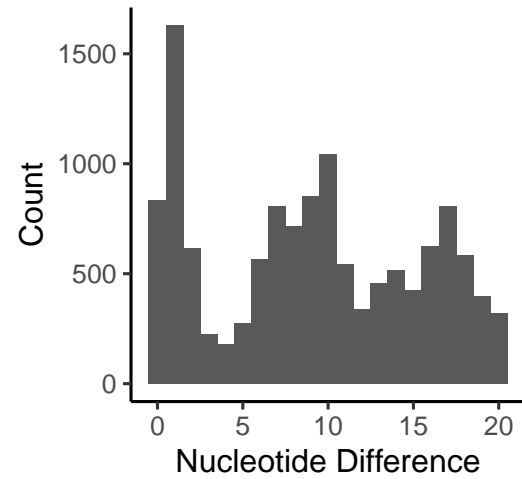
IGHV4-4*02_03

33 sequences assigned
No exact matches.



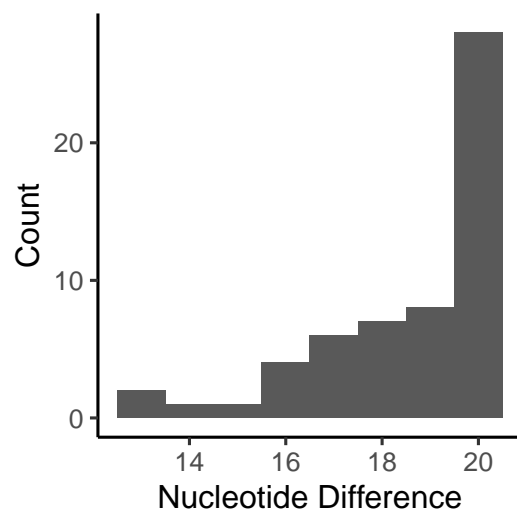
IGHV4-30-4*01

16812 sequences assigned
835 (5%) exact matches, in which:
487 unique CDR3
6 unique J



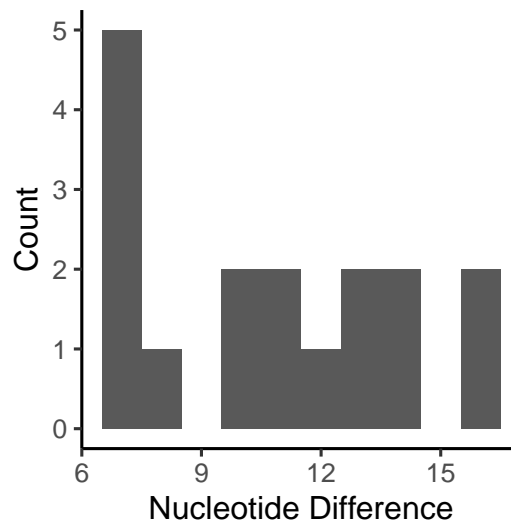
IGHV4-4*08

157 sequences assigned
No exact matches.



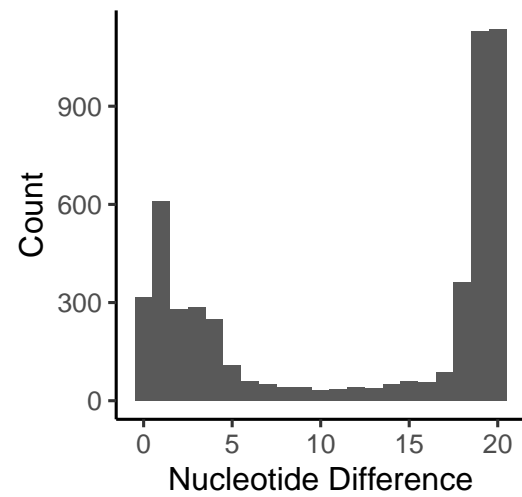
IGHV4-28*03

19 sequences assigned
No exact matches.



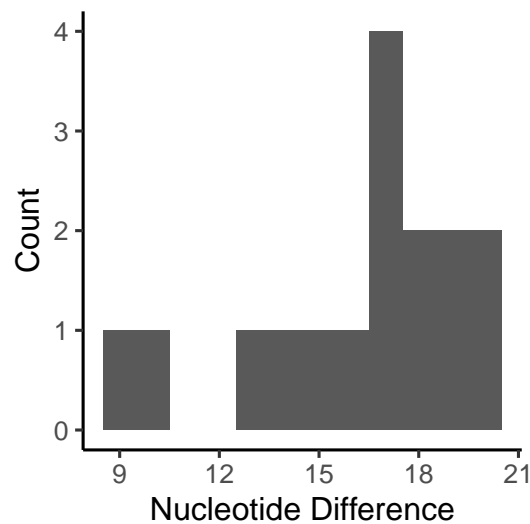
IGHV4-30-2*01

7413 sequences assigned
315 (4.2%) exact matches, in which:
168 unique CDR3
3 unique J



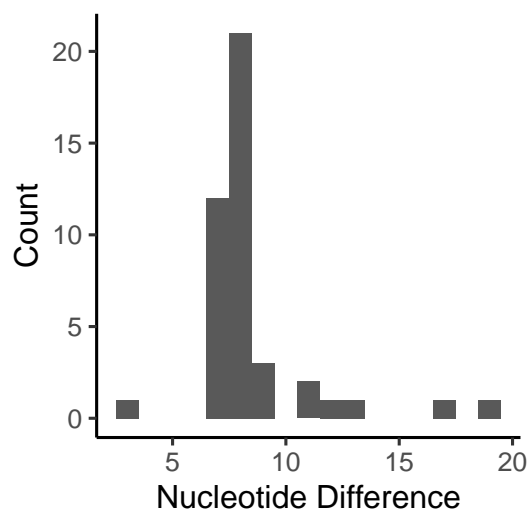
IGHV4-4*09

31 sequences assigned
No exact matches.



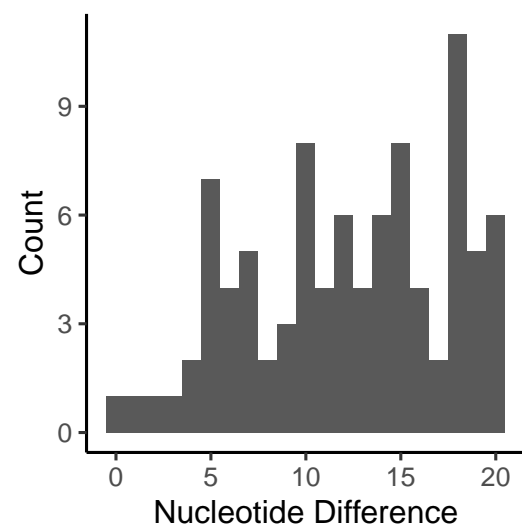
IGHV4-28*01_07

44 sequences assigned
No exact matches.



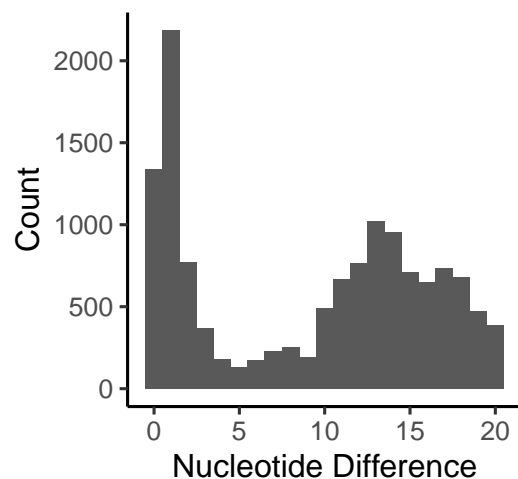
IGHV4-30-2*05

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



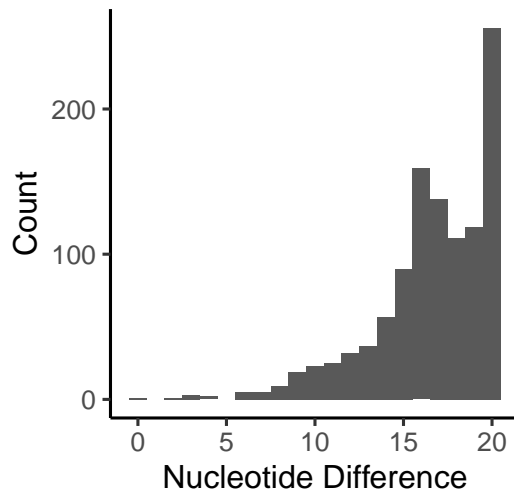
IGHV4-31*02

17819 sequences assigned
1336 (7.5%) exact matches, in which:
835 unique CDR3
8 unique J



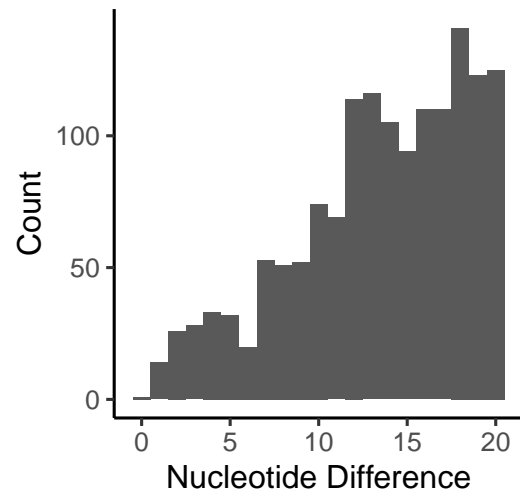
IGHV4-39*02

2417 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



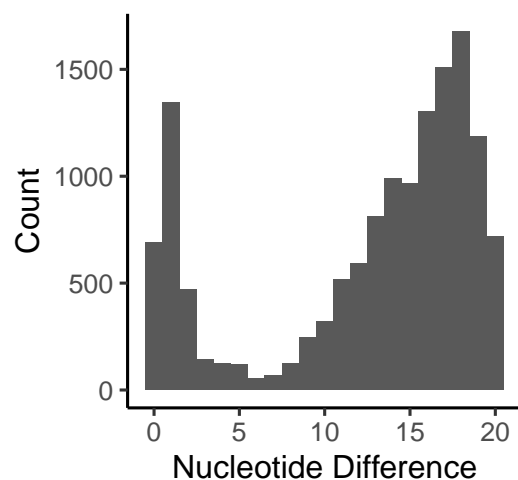
IGHV4-59*08

2874 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



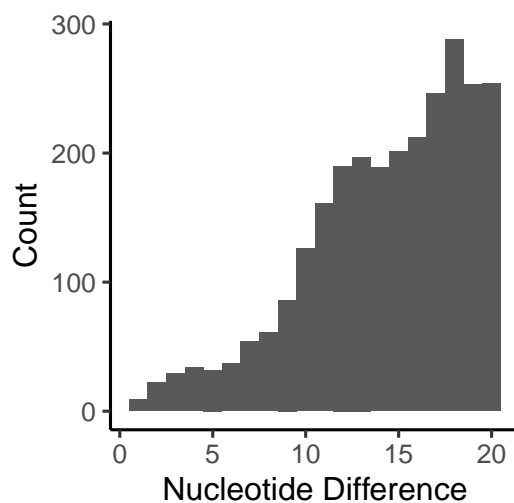
IGHV4-34*01_02

17502 sequences assigned
689 (3.9%) exact matches, in which:
418 unique CDR3
6 unique J



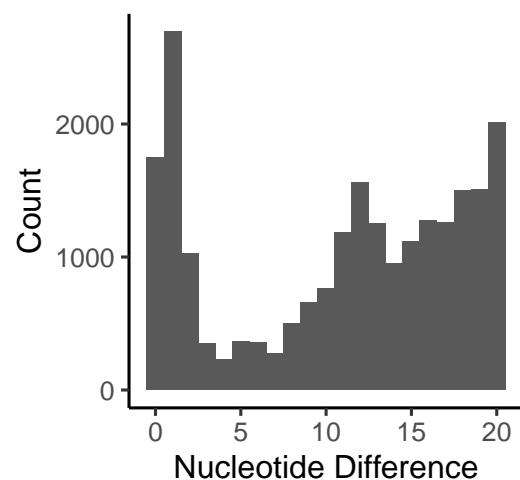
IGHV4-39*07

4356 sequences assigned
No exact matches.



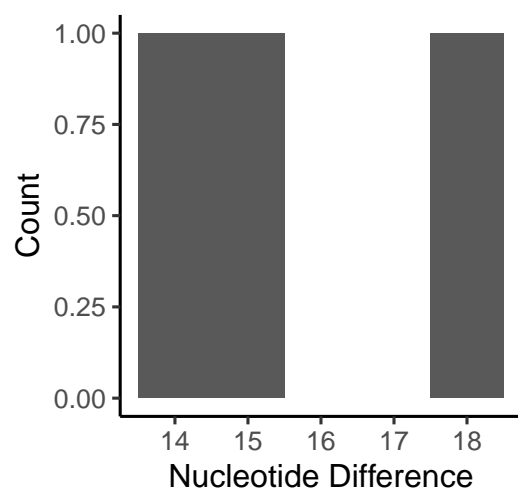
IGHV4-59*01_07

35882 sequences assigned
1750 (4.9%) exact matches, in which:
1072 unique CDR3
8 unique J



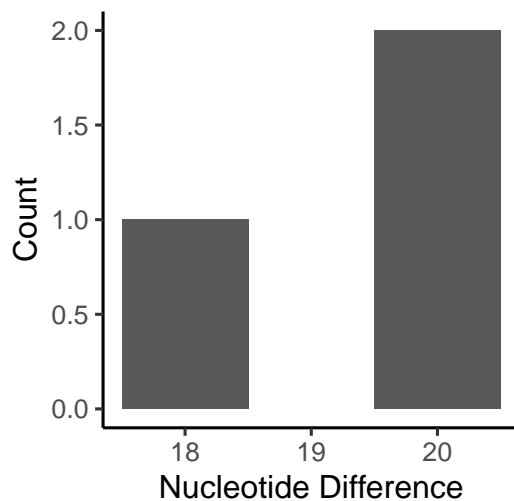
IGHV4-38-2*01

18 sequences assigned
No exact matches.



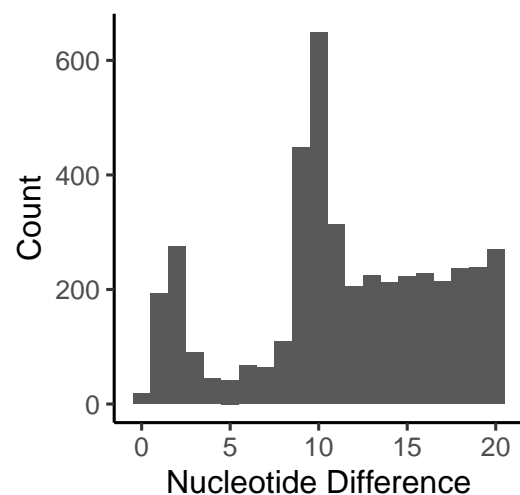
IGHV4-55*09

8 sequences assigned
No exact matches.



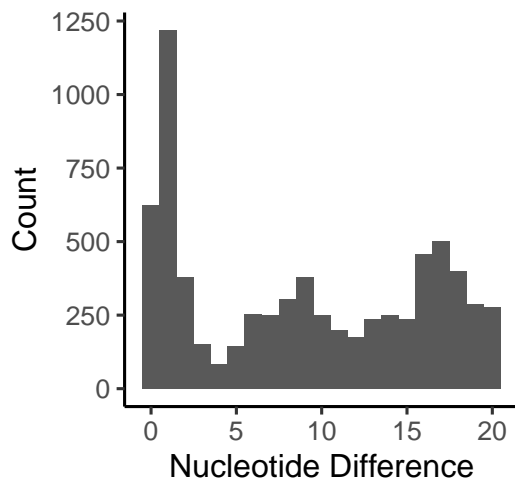
IGHV4-59*12

8437 sequences assigned
18 (0.2%) exact matches, in which:
14 unique CDR3
4 unique J



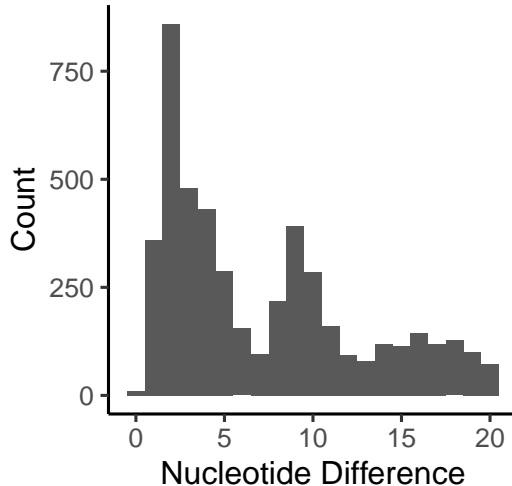
IGHV4-61*01

9678 sequences assigned
624 (6.4%) exact matches, in which:
352 unique CDR3
6 unique J



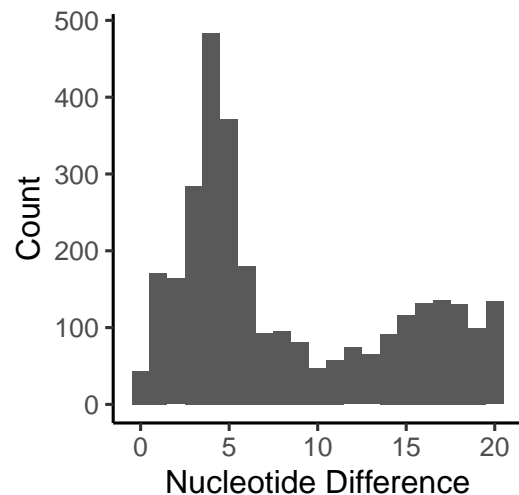
IGHV5-51*07

5822 sequences assigned
10 (0.2%) exact matches, in which:
6 unique CDR3
1 unique J



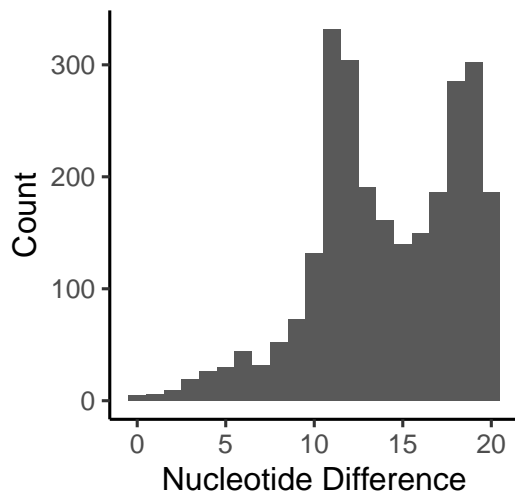
IGHV7-4-1*02

6103 sequences assigned
43 (0.7%) exact matches, in which:
32 unique CDR3
6 unique J



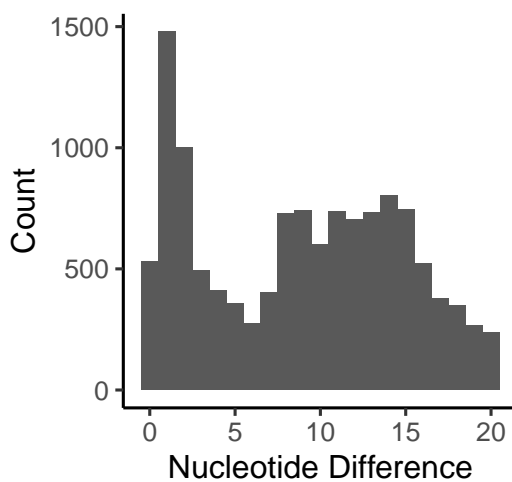
IGHV4-61*08

4166 sequences assigned
5 (0.1%) exact matches, in which:
4 unique CDR3
2 unique J



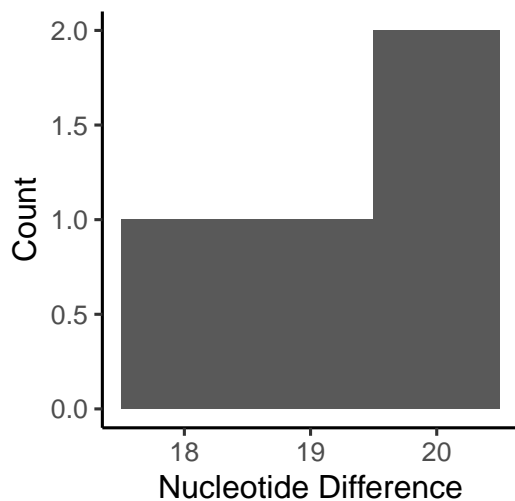
IGHV5-51*01_03

14011 sequences assigned
531 (3.8%) exact matches, in which:
325 unique CDR3
6 unique J



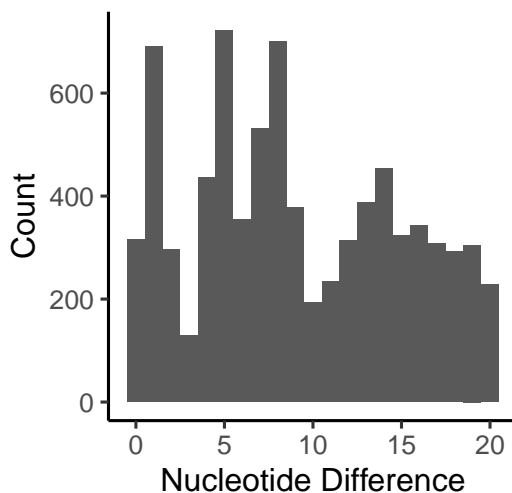
IGHV1/OR15-2*02_03

13 sequences assigned
No exact matches.

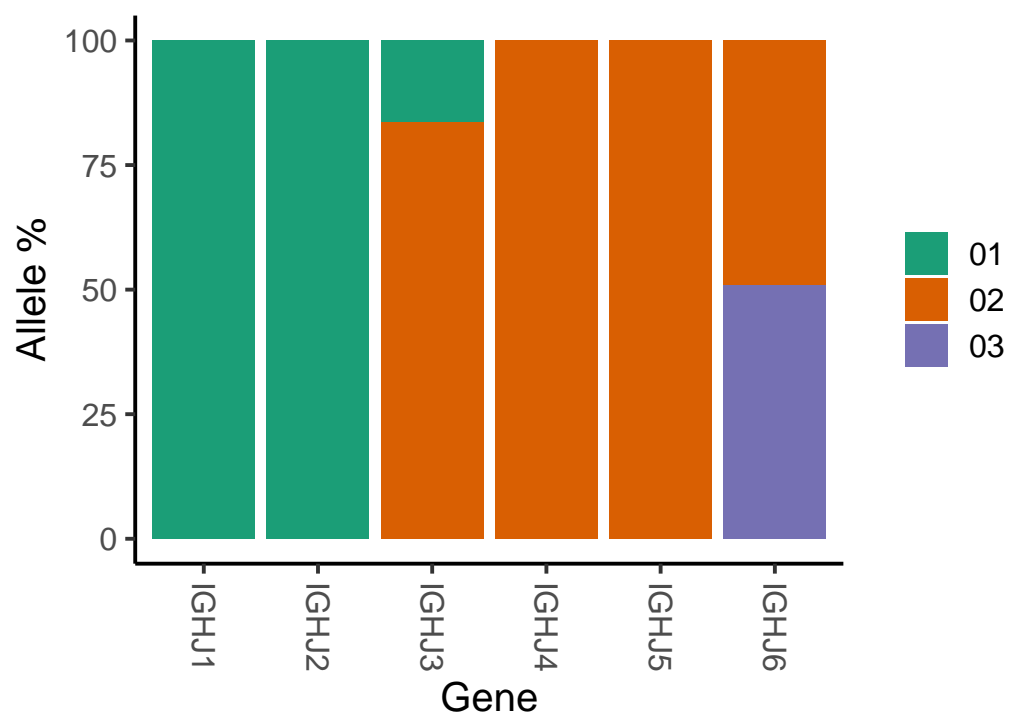


IGHV6-1*01_02

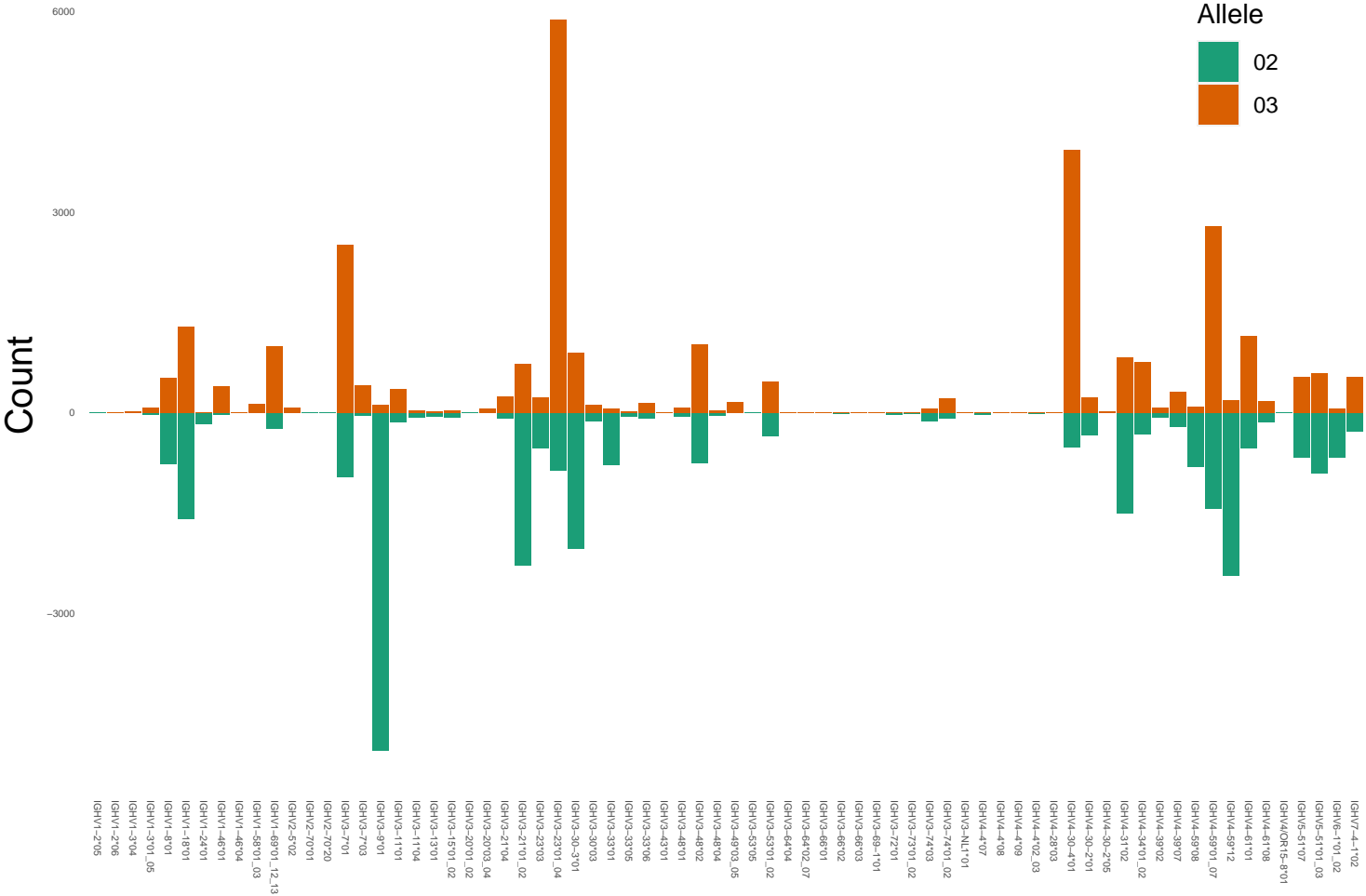
10762 sequences assigned
316 (2.9%) exact matches, in which:
167 unique CDR3
5 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.