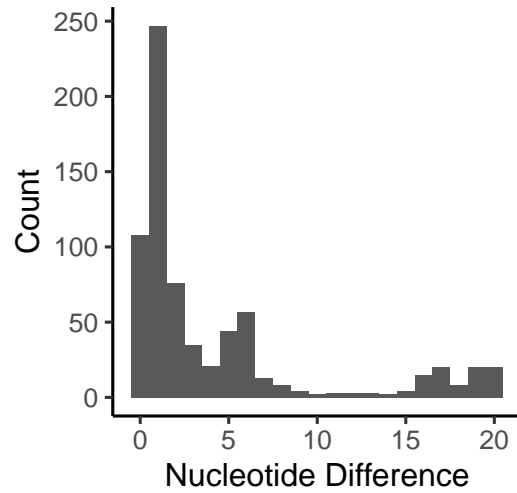


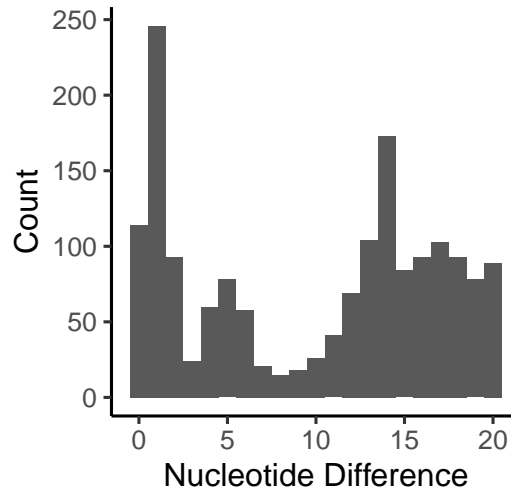
IGHV1-2*05

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



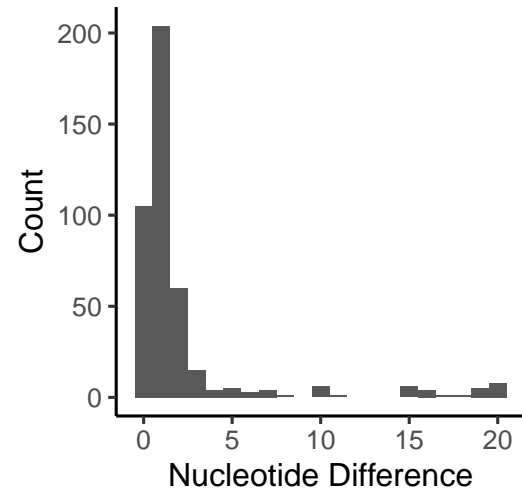
IGHV1-3*01_05

2580 sequences assigned
114 (4.4%) exact matches, in which:
72 unique CDR3
5 unique J



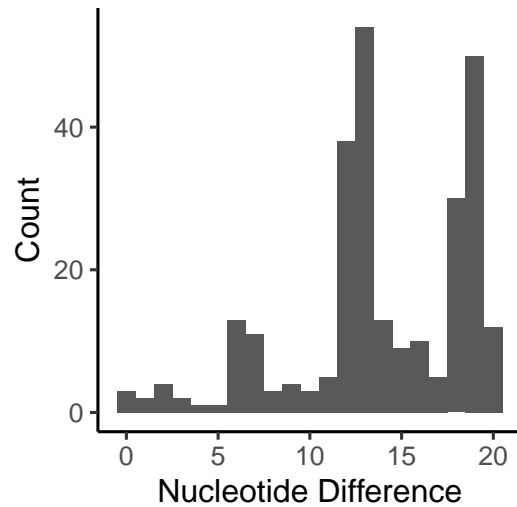
IGHV1-24*01

441 sequences assigned
105 (23.8%) exact matches, in which:
62 unique CDR3
4 unique J



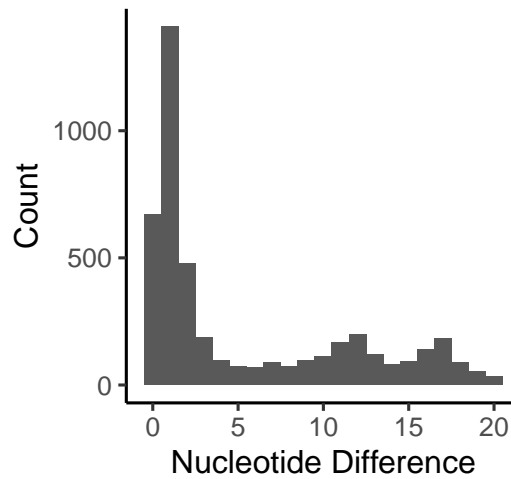
IGHV1-2*06

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



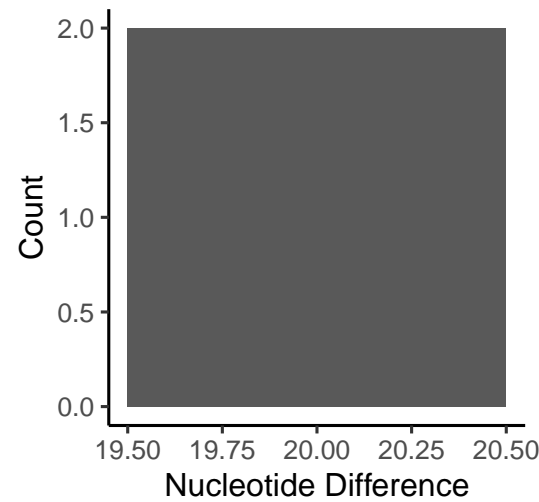
IGHV1-8*01

5558 sequences assigned
670 (12.1%) exact matches, in which:
386 unique CDR3
6 unique J



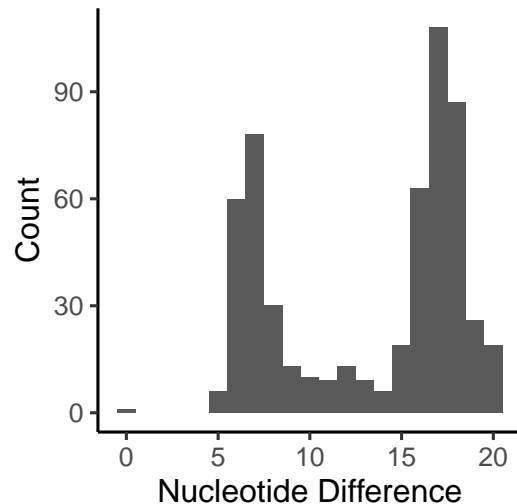
IGHV1-45*02

274 sequences assigned
No exact matches.



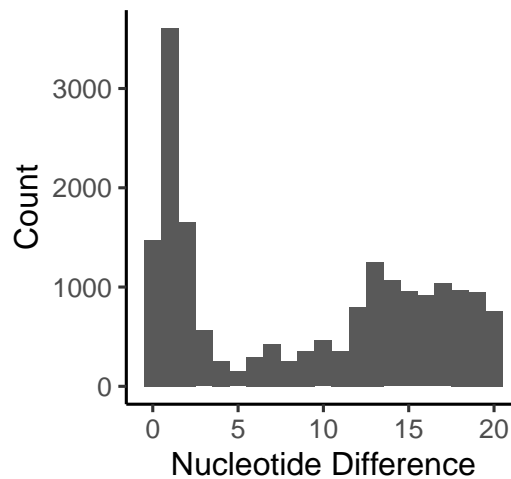
IGHV1-3*04

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



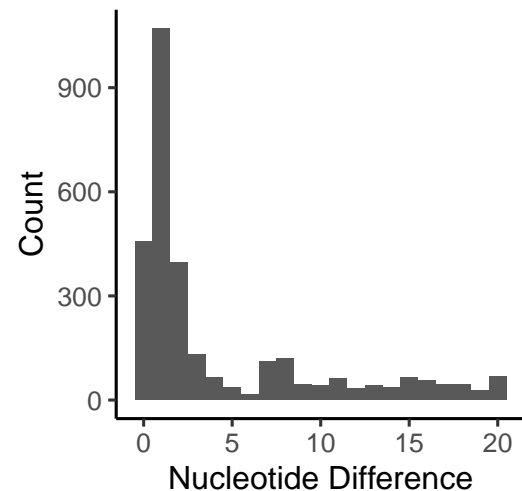
IGHV1-18*01

25333 sequences assigned
1477 (5.8%) exact matches, in which:
855 unique CDR3
7 unique J



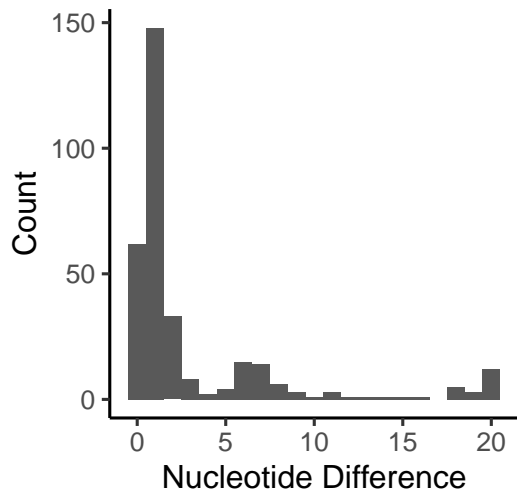
IGHV1-46*01

3281 sequences assigned
457 (13.9%) exact matches, in which:
263 unique CDR3
5 unique J



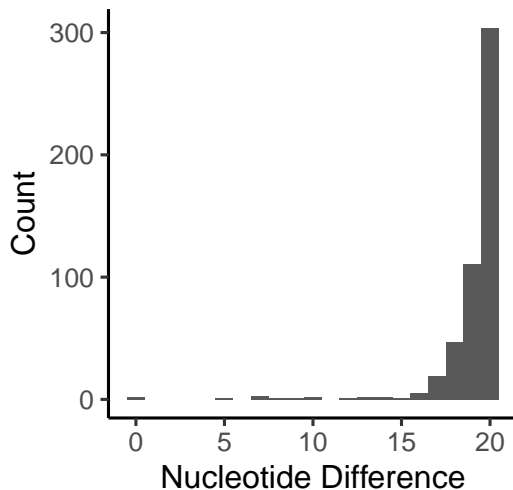
IGHV1-46*03

444 sequences assigned
62 (14%) exact matches, in which:
29 unique CDR3
2 unique J



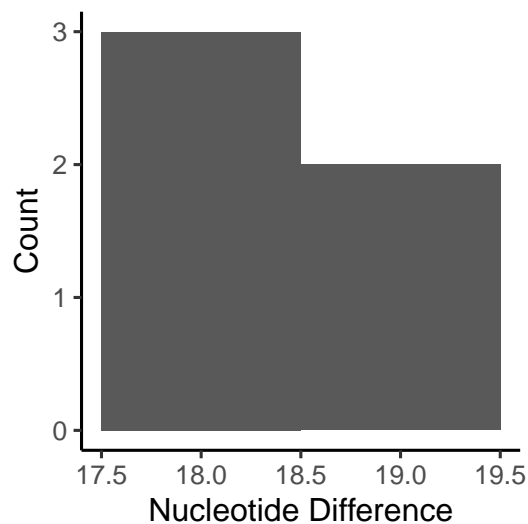
IGHV1-69*06_14

1746 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
2 unique J



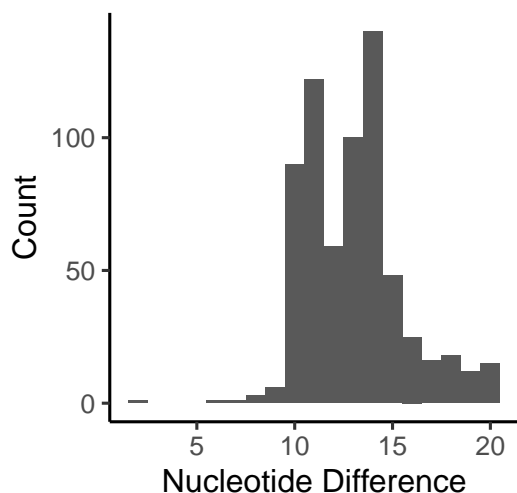
IGHV2-26*03

5 sequences assigned
No exact matches.



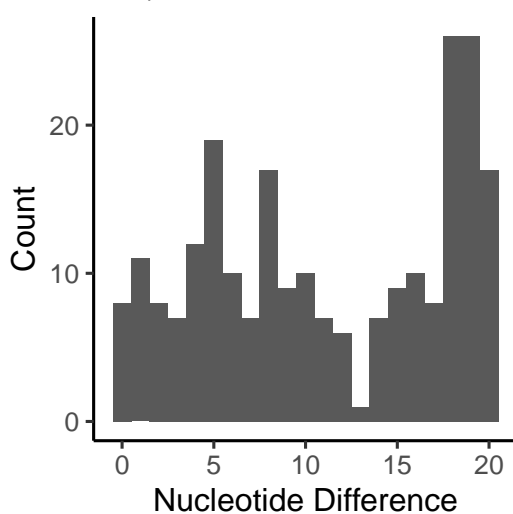
IGHV1-46*04

717 sequences assigned
No exact matches.



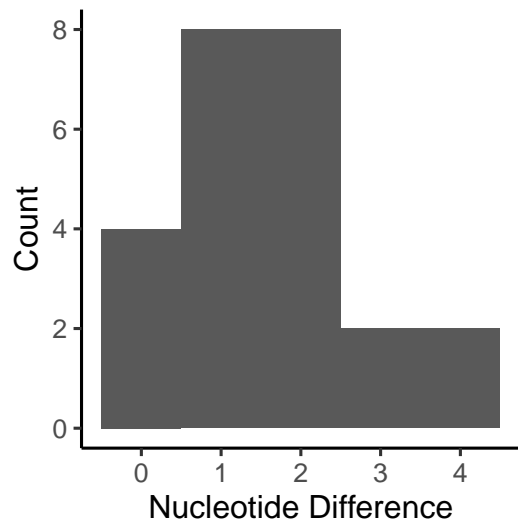
IGHV2-5*02

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



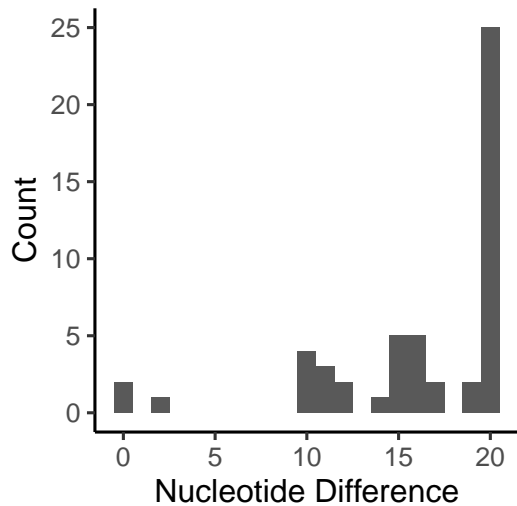
IGHV2-70*01

25 sequences assigned
4 (16%) exact matches, in which:
2 unique CDR3
1 unique J



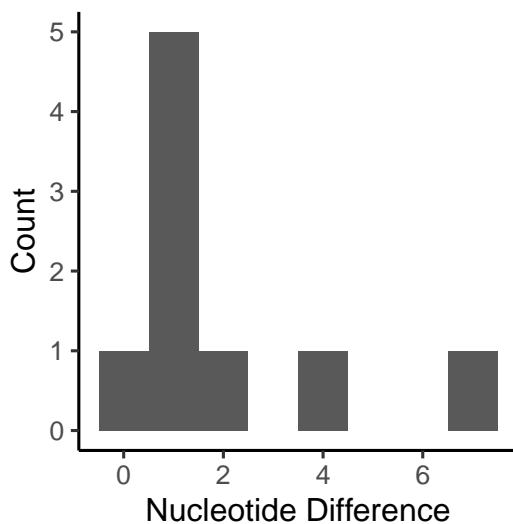
IGHV1-58*01_03

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



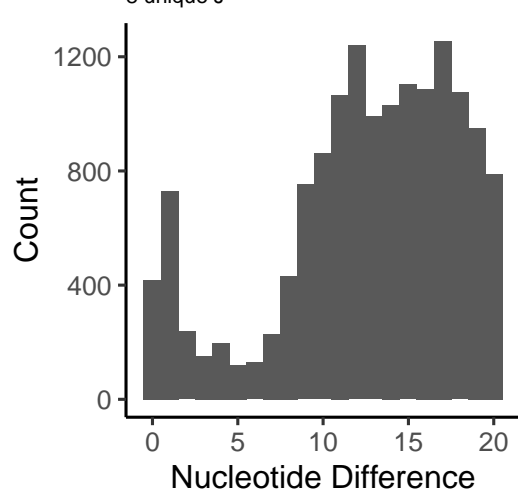
IGHV2-26*01

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



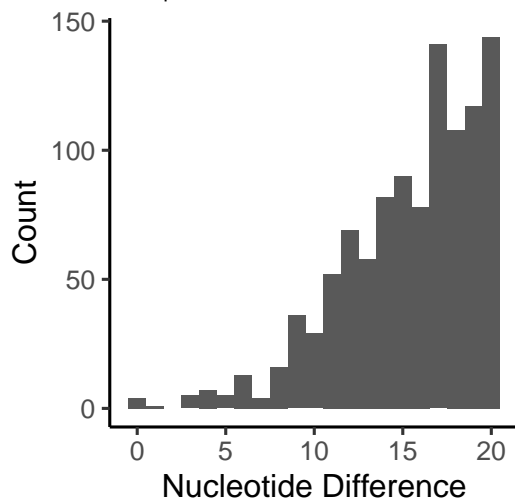
IGHV3-7*01

19666 sequences assigned
417 (2.1%) exact matches, in which:
254 unique CDR3
8 unique J



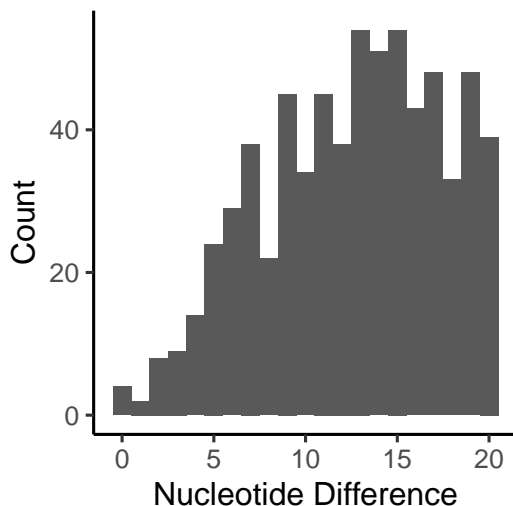
IGHV3-7*03

1668 sequences assigned
4 (0.2%) exact matches, in which:
4 unique CDR3
2 unique J



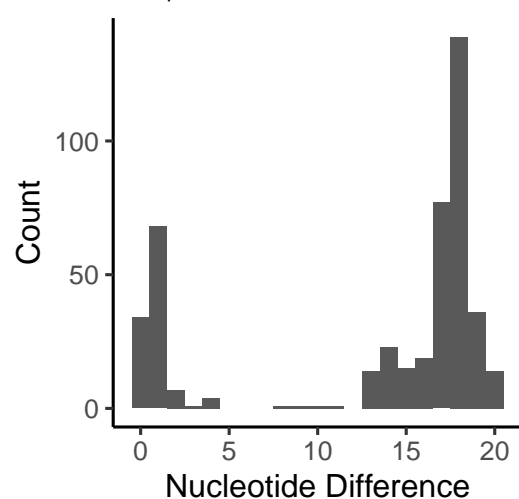
IGHV3-11*04

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



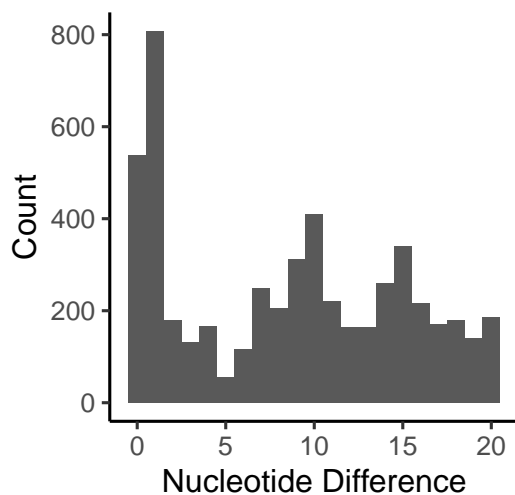
IGHV3-20*01_02

499 sequences assigned
34 (6.8%) exact matches, in which:
24 unique CDR3
3 unique J



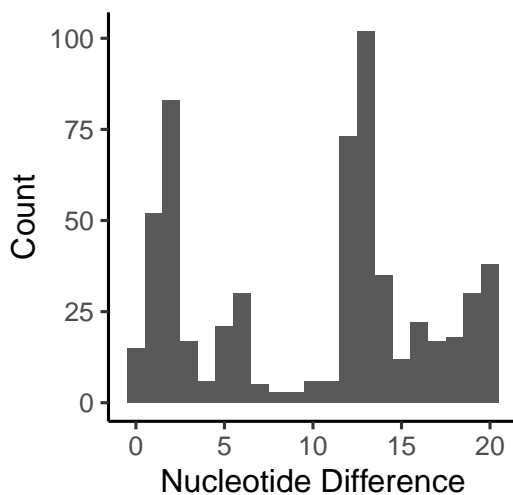
IGHV3-9*01

12675 sequences assigned
539 (4.3%) exact matches, in which:
325 unique CDR3
8 unique J



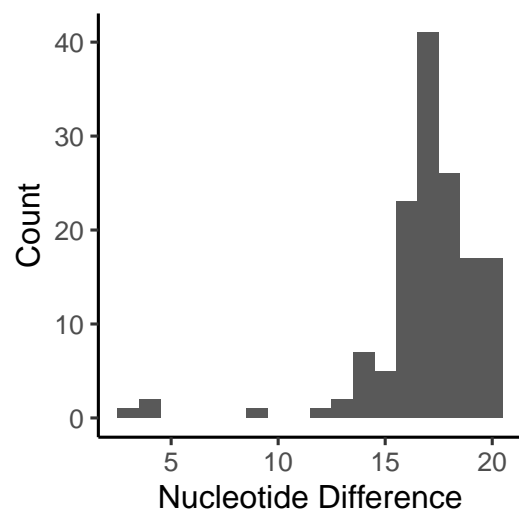
IGHV3-13*01

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



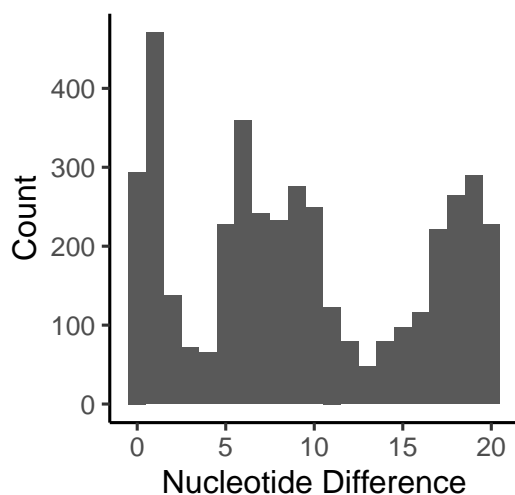
IGHV3-20*03_04

250 sequences assigned
No exact matches.



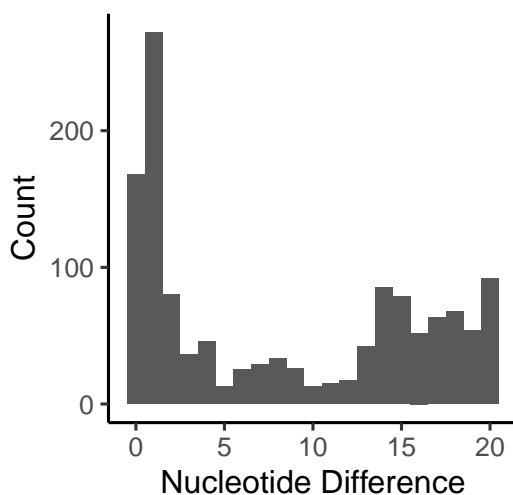
IGHV3-11*01

5271 sequences assigned
294 (5.6%) exact matches, in which:
185 unique CDR3
7 unique J



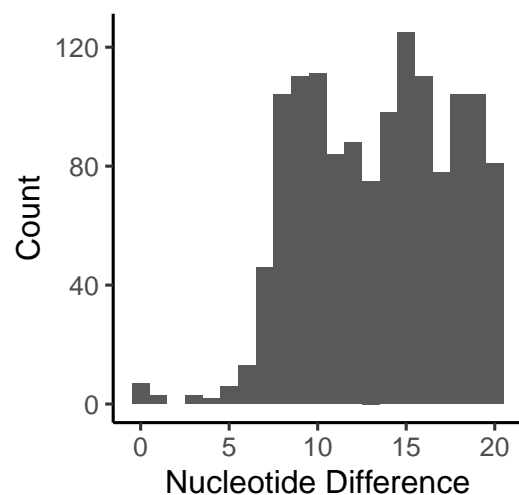
IGHV3-15*01_02

3668 sequences assigned
168 (4.6%) exact matches, in which:
114 unique CDR3
4 unique J



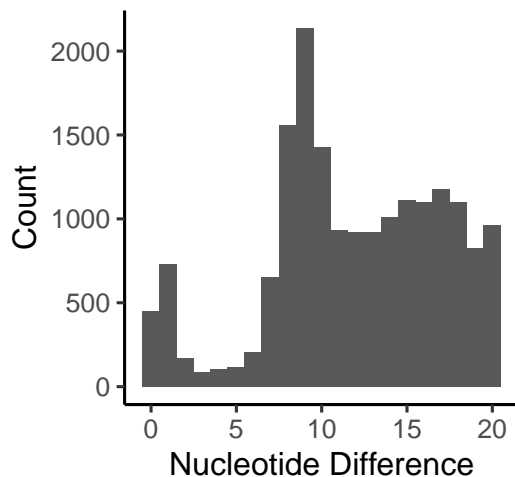
IGHV3-21*04

2244 sequences assigned
7 (0.3%) exact matches, in which:
7 unique CDR3
4 unique J



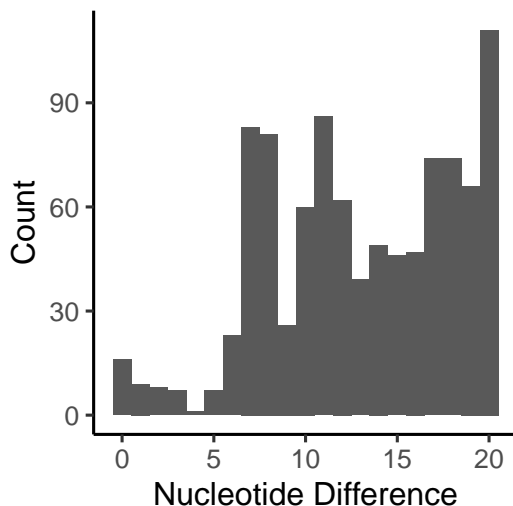
IGHV3-21*01_02

22857 sequences assigned
450 (2%) exact matches, in which:
243 unique CDR3
6 unique J



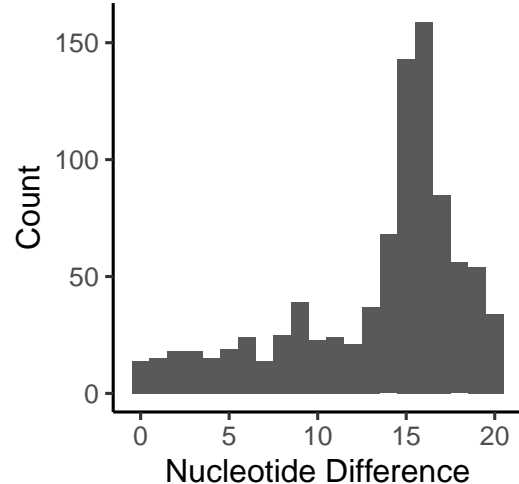
IGHV3-30*03

2610 sequences assigned
16 (0.6%) exact matches, in which:
16 unique CDR3
4 unique J



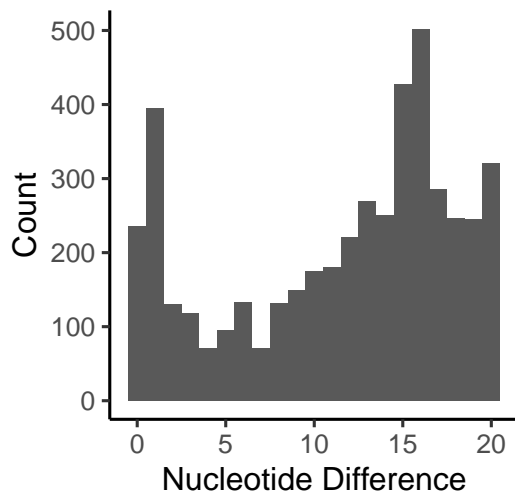
IGHV3-33*06

1221 sequences assigned
14 (1.1%) exact matches, in which:
13 unique CDR3
3 unique J



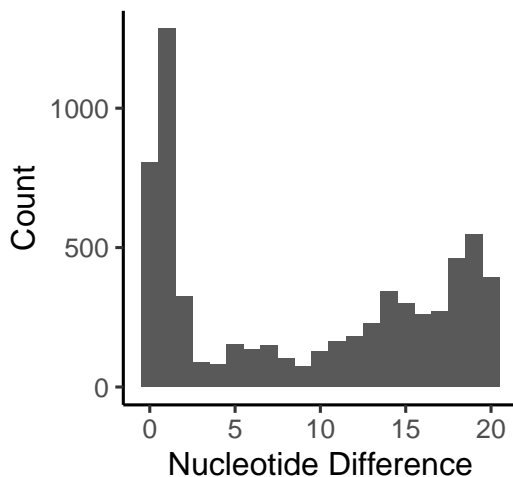
IGHV3-23*03

8544 sequences assigned
236 (2.8%) exact matches, in which:
142 unique CDR3
4 unique J



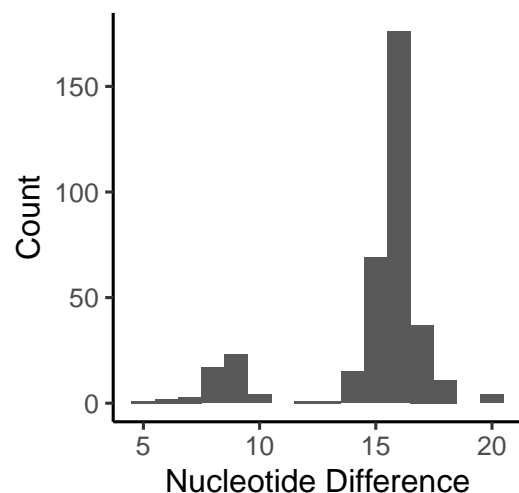
IGHV3-33*01

8077 sequences assigned
804 (10%) exact matches, in which:
462 unique CDR3
7 unique J



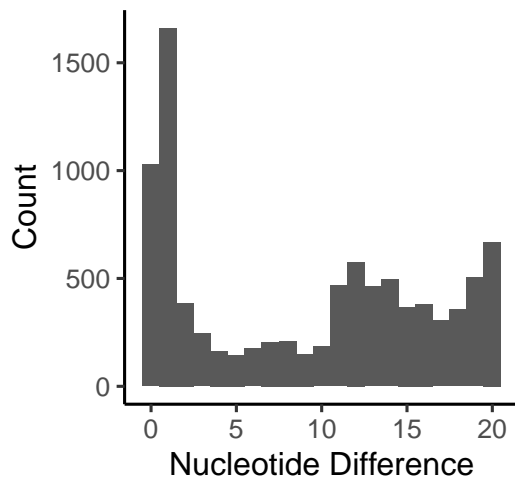
IGHV3-43*01

380 sequences assigned
No exact matches.



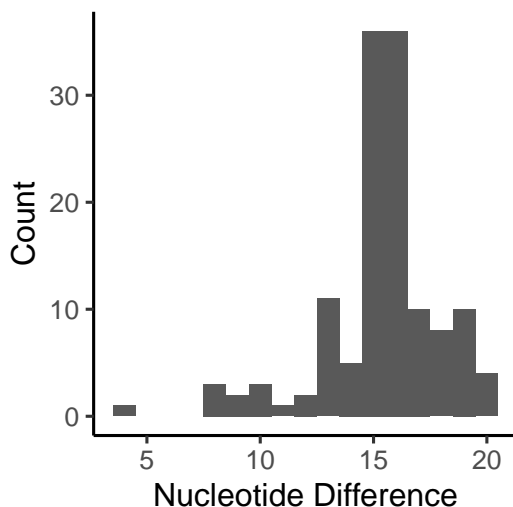
IGHV3-30-3*01

12494 sequences assigned
1029 (8.2%) exact matches, in which:
629 unique CDR3
6 unique J



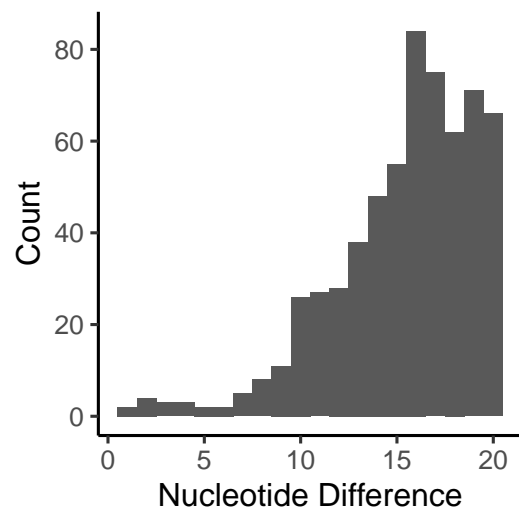
IGHV3-33*05

216 sequences assigned
No exact matches.



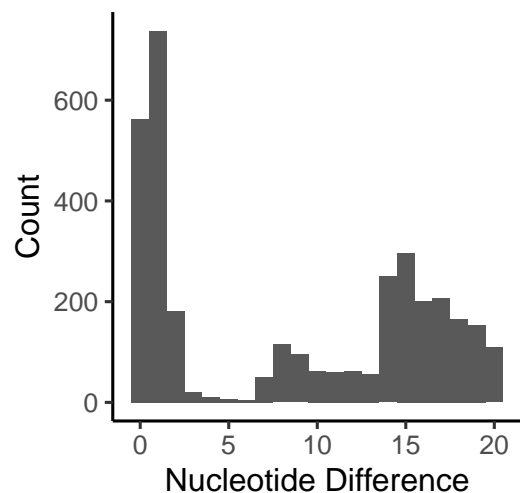
IGHV3-48*01

1291 sequences assigned
No exact matches.



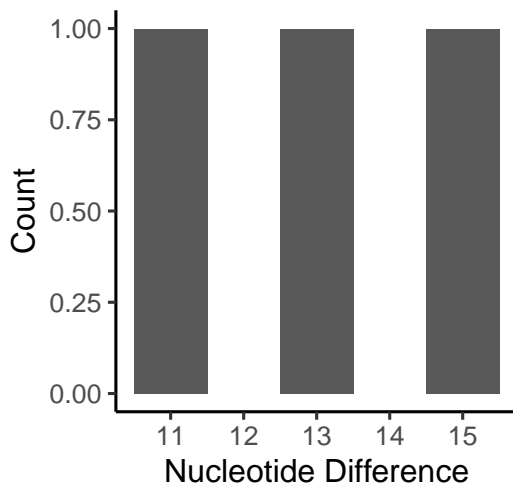
IGHV3-48*02

4653 sequences assigned
563 (12.1%) exact matches, in which:
373 unique CDR3
5 unique J



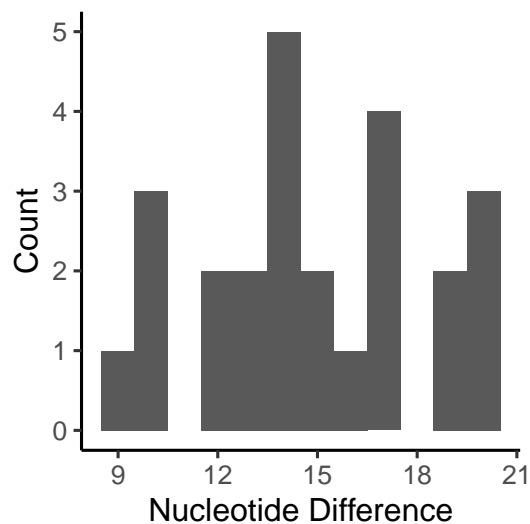
IGHV3-52*01_03

3 sequences assigned
No exact matches.



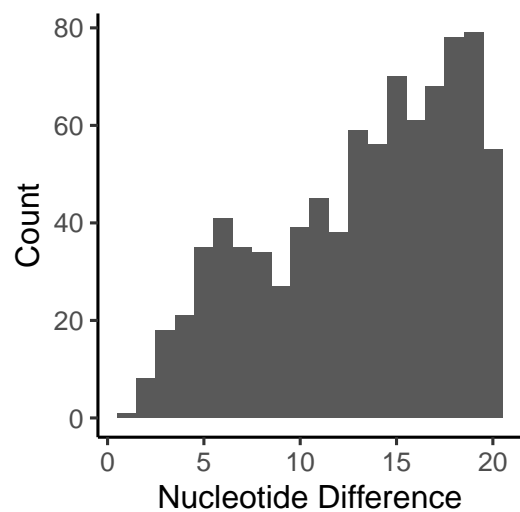
IGHV3-64*04

32 sequences assigned
No exact matches.



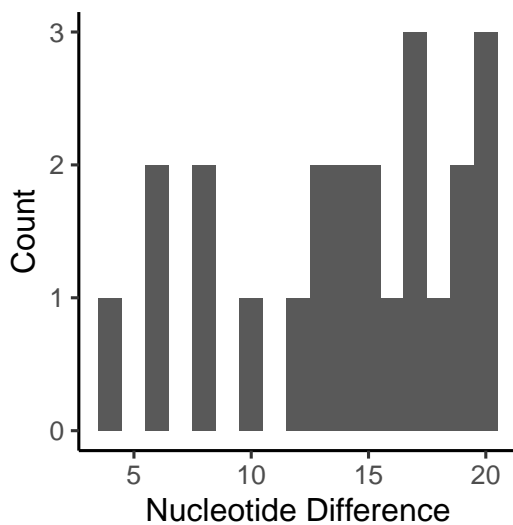
IGHV3-48*04

1141 sequences assigned
No exact matches.



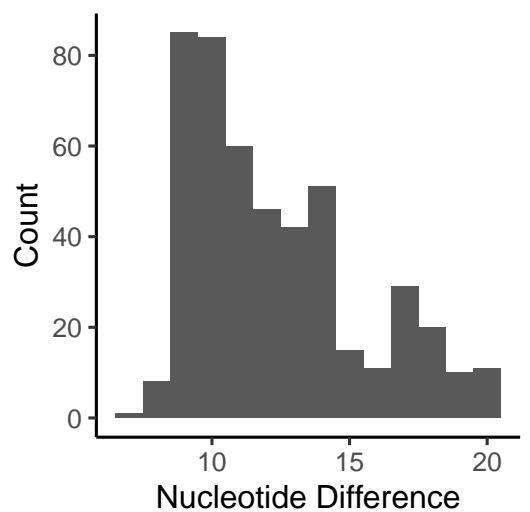
IGHV3-53*05

39 sequences assigned
No exact matches.



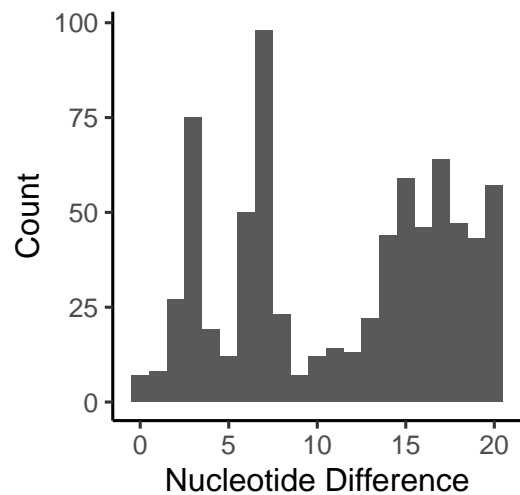
IGHV3-64*02_07

537 sequences assigned
No exact matches.



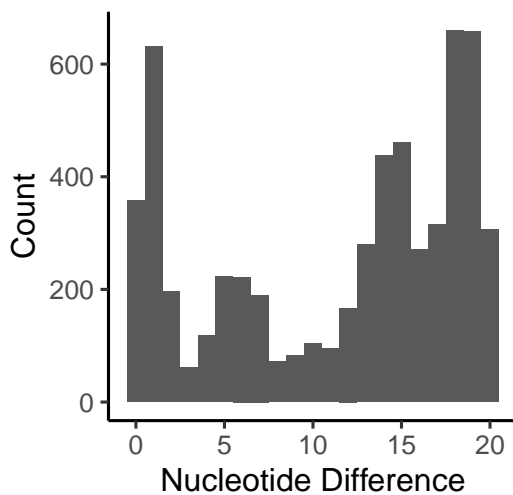
IGHV3-49*03_05

947 sequences assigned
7 (0.7%) exact matches, in which:
6 unique CDR3
3 unique J



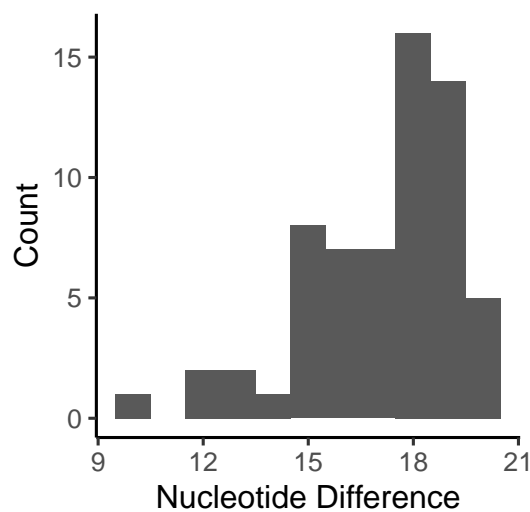
IGHV3-53*01_02

7919 sequences assigned
358 (4.5%) exact matches, in which:
225 unique CDR3
5 unique J



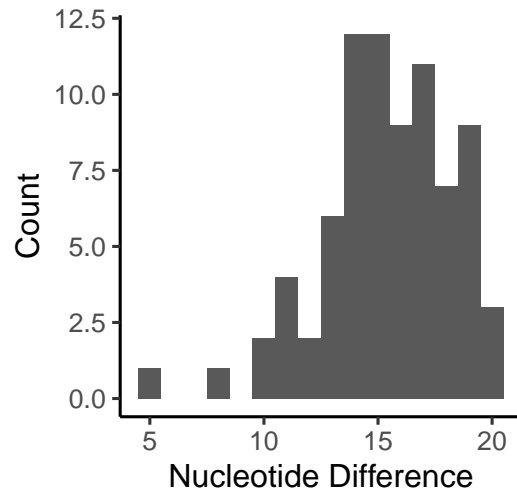
IGHV3-66*01

97 sequences assigned
No exact matches.



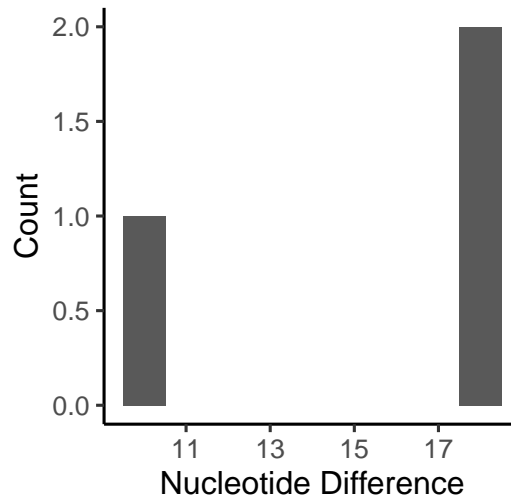
IGHV3-66*02

110 sequences assigned
No exact matches.



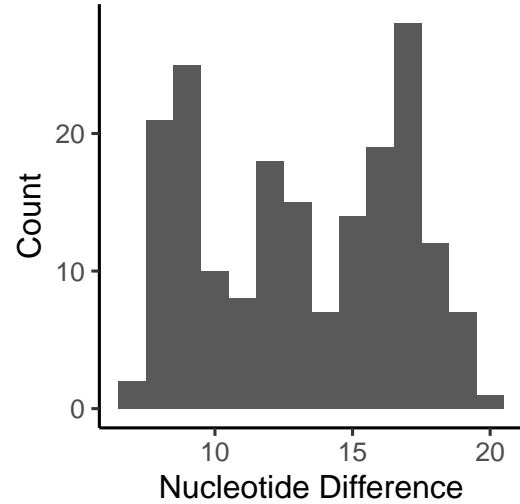
IGHV3-69-1*02

13 sequences assigned
No exact matches.



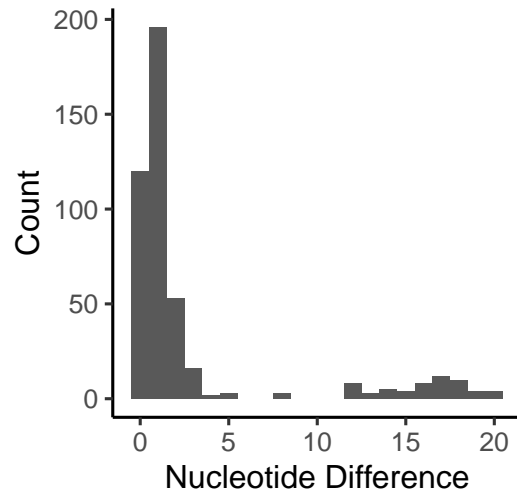
IGHV3-74*03

394 sequences assigned
No exact matches.



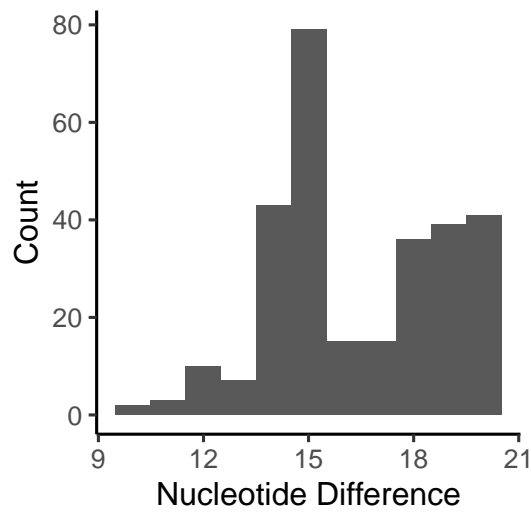
IGHV3-66*03

462 sequences assigned
120 (26%) exact matches, in which:
75 unique CDR3
4 unique J



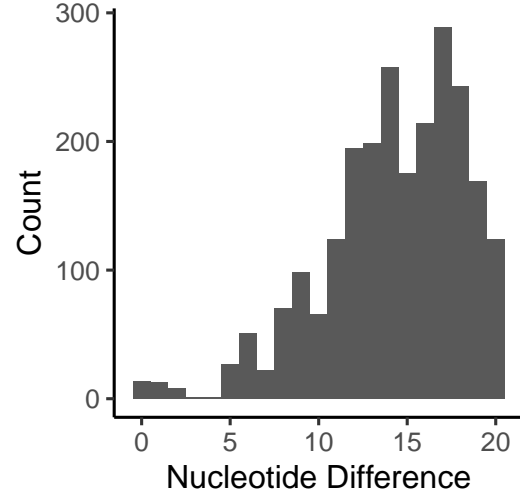
IGHV3-72*01

400 sequences assigned
No exact matches.



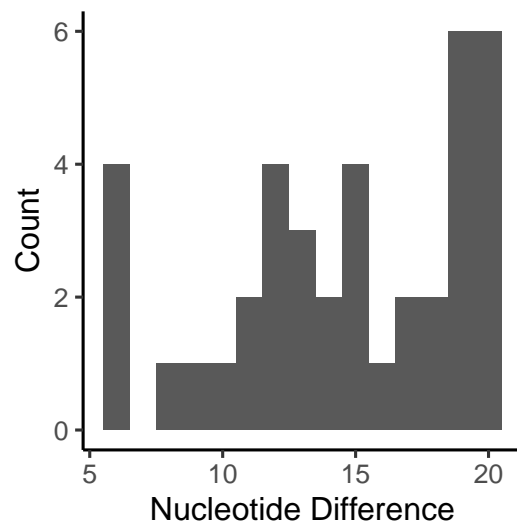
IGHV3-74*01_02

2843 sequences assigned
14 (0.5%) exact matches, in which:
8 unique CDR3
4 unique J



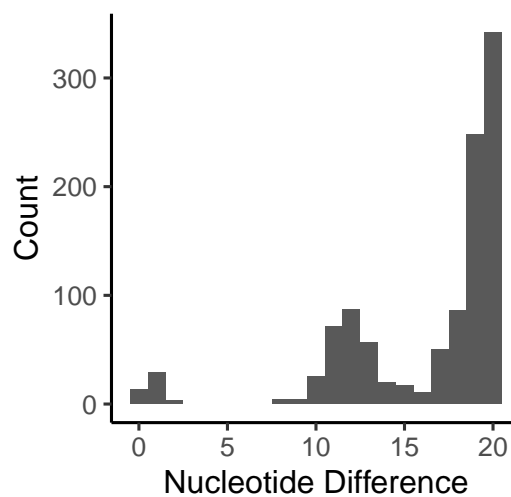
IGHV3-69-1*01

112 sequences assigned
No exact matches.



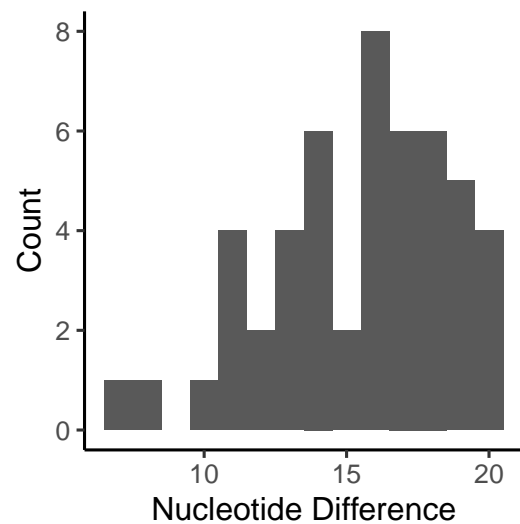
IGHV3-73*01_02

1479 sequences assigned
13 (0.9%) exact matches, in which:
7 unique CDR3
2 unique J



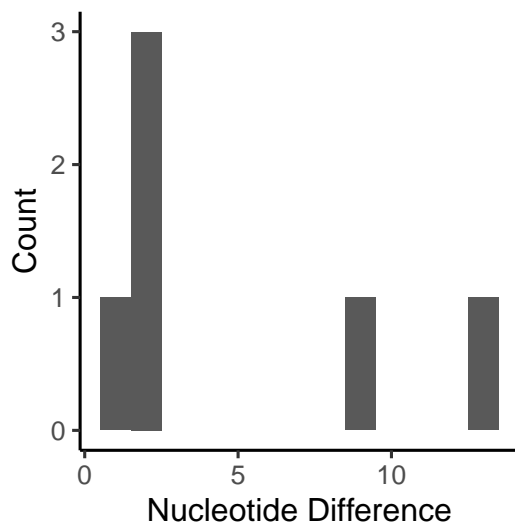
IGHV3-NL1*01

122 sequences assigned
No exact matches.



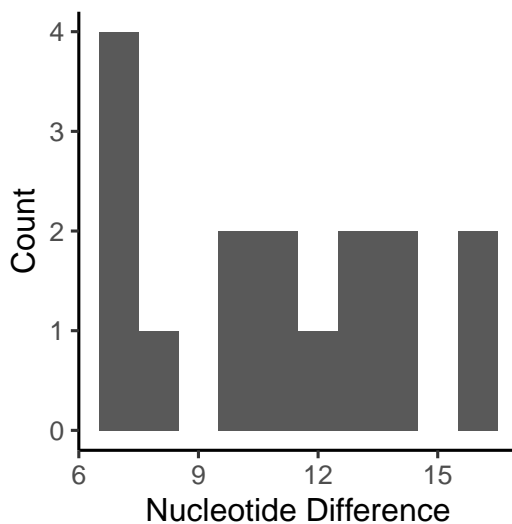
IGHV4-4*07

45 sequences assigned
No exact matches.



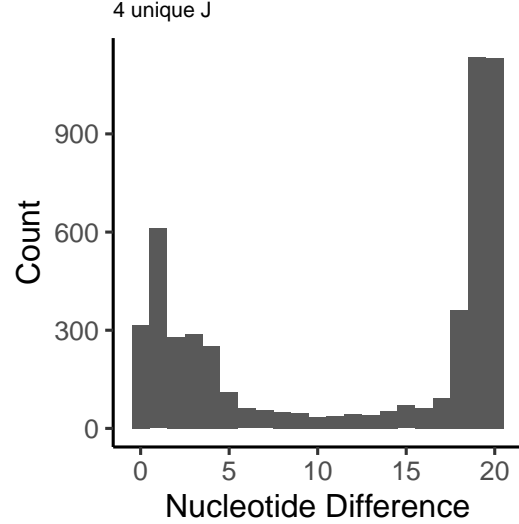
IGHV4-28*03

30 sequences assigned
No exact matches.



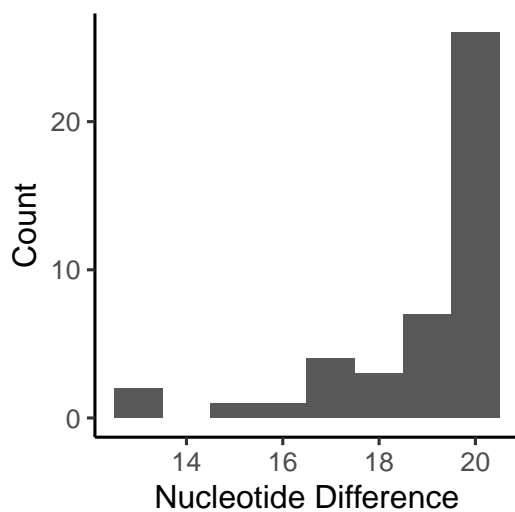
IGHV4-30-2*01

7508 sequences assigned
316 (4.2%) exact matches, in which:
169 unique CDR3
4 unique J



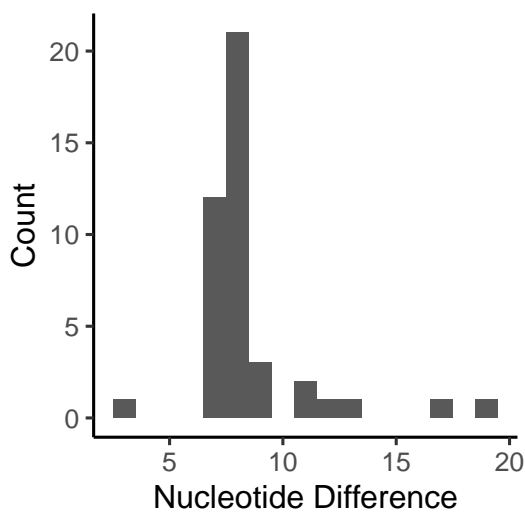
IGHV4-4*08

129 sequences assigned
No exact matches.



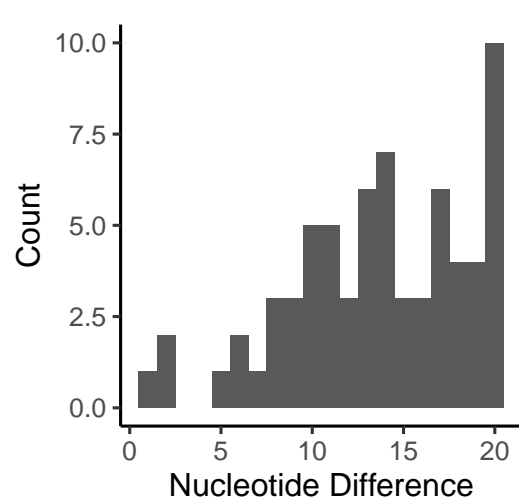
IGHV4-28*01_07

44 sequences assigned
No exact matches.



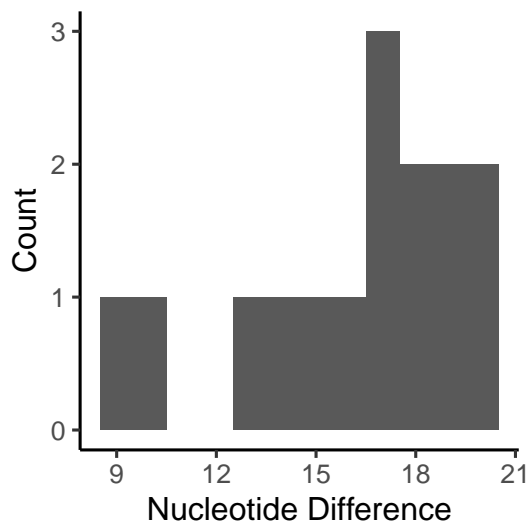
IGHV4-30-2*03

125 sequences assigned
No exact matches.



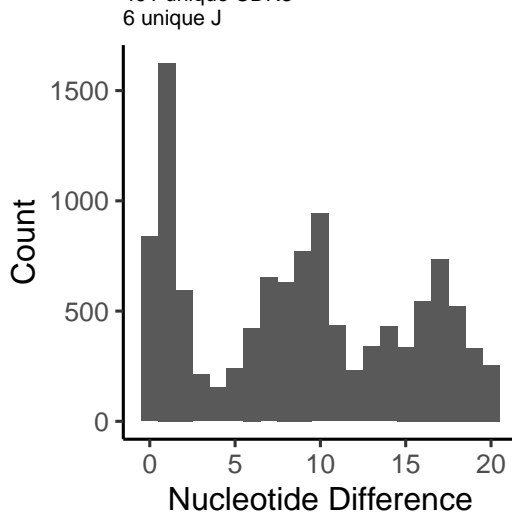
IGHV4-4*09

30 sequences assigned
No exact matches.



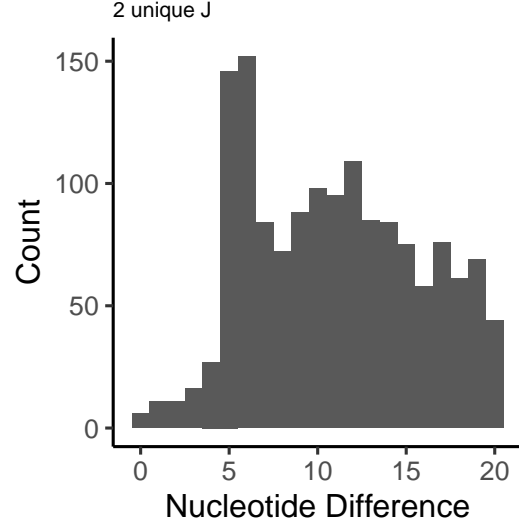
IGHV4-30-4*01

15077 sequences assigned
838 (5.6%) exact matches, in which:
491 unique CDR3
6 unique J



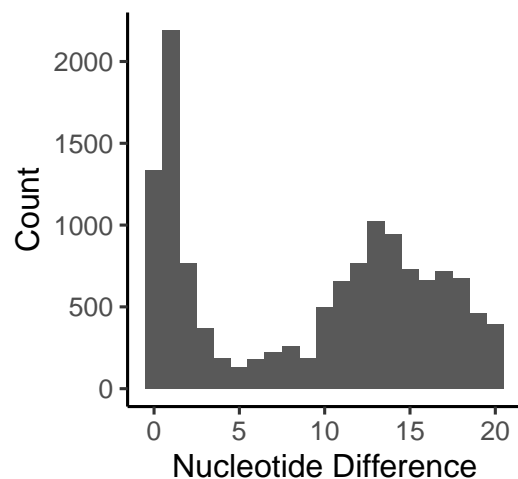
IGHV4-30-4*08

1645 sequences assigned
6 (0.4%) exact matches, in which:
6 unique CDR3
2 unique J



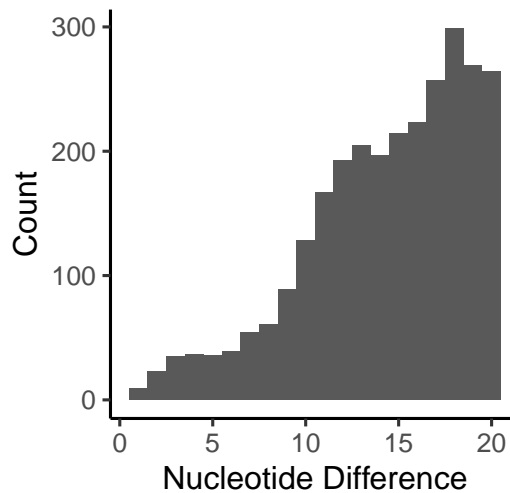
IGHV4-31*03_04

17790 sequences assigned
1334 (7.5%) exact matches, in which:
837 unique CDR3
8 unique J



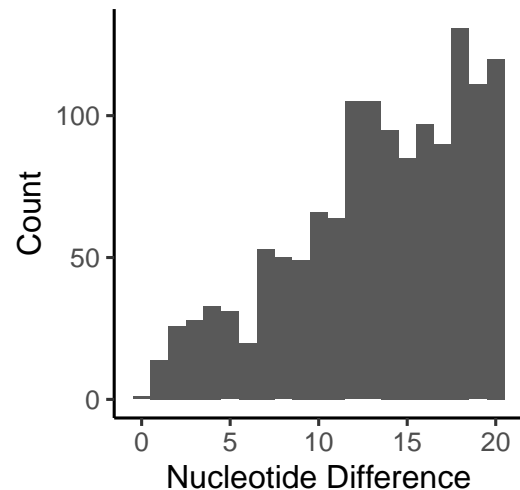
IGHV4-39*07

4560 sequences assigned
No exact matches.



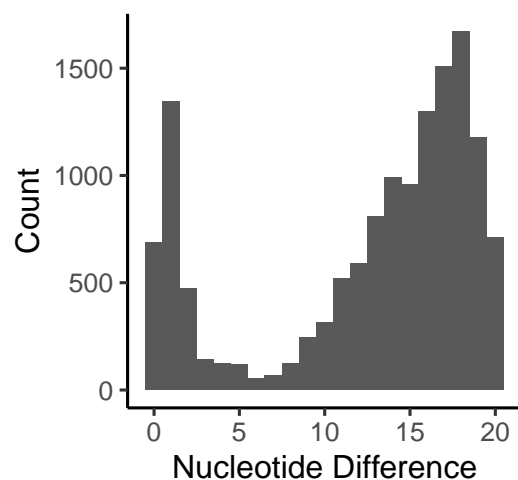
IGHV4-59*08

2632 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



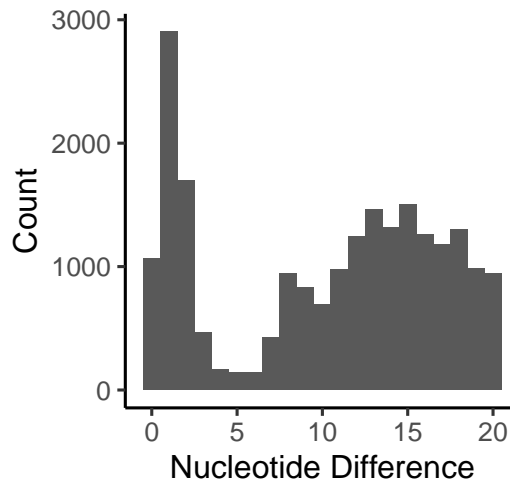
IGHV4-34*01_02

17647 sequences assigned
689 (3.9%) exact matches, in which:
418 unique CDR3
6 unique J



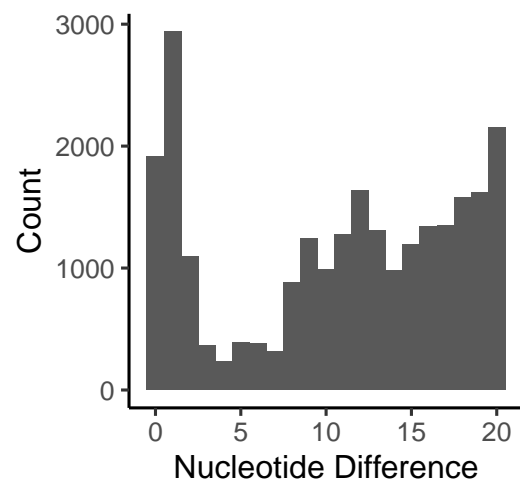
IGHV4-39*01_05

34657 sequences assigned
1065 (3.1%) exact matches, in which:
539 unique CDR3
8 unique J



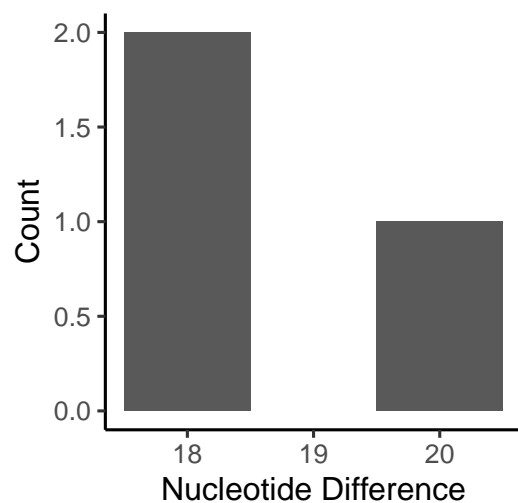
IGHV4-59*01_07

41446 sequences assigned
1911 (4.6%) exact matches, in which:
1163 unique CDR3
8 unique J



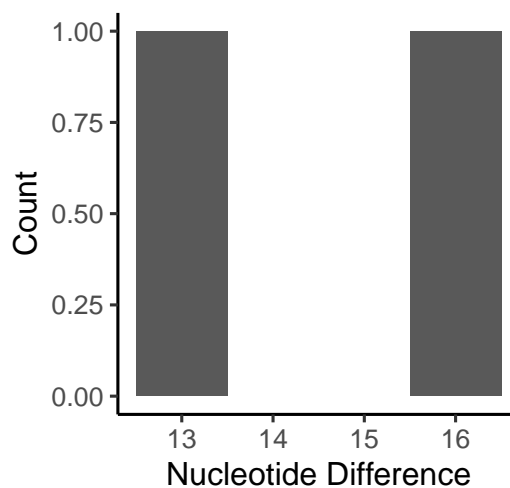
IGHV4-38-2*02

5 sequences assigned
No exact matches.



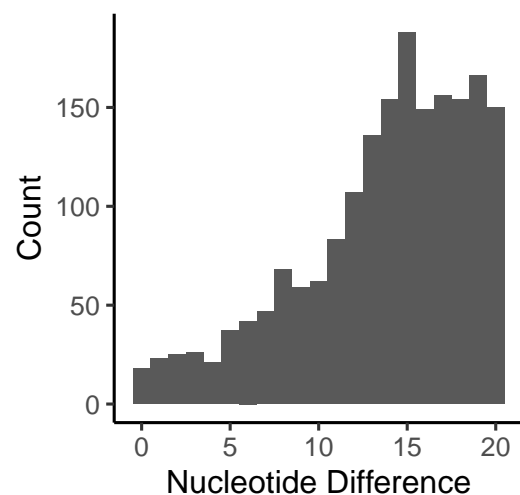
IGHV4-55*02_04_08

7 sequences assigned
No exact matches.



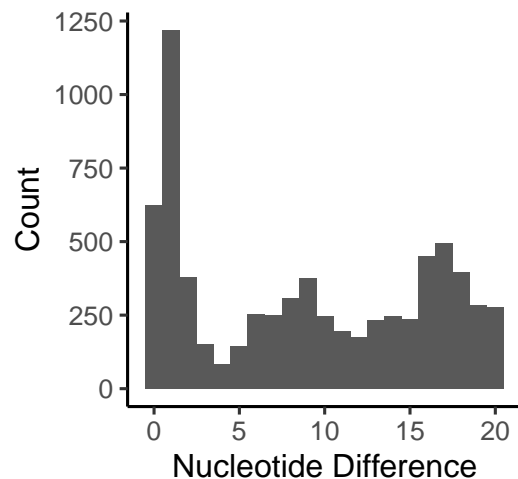
IGHV4-59*12

2831 sequences assigned
18 (0.6%) exact matches, in which:
14 unique CDR3
4 unique J



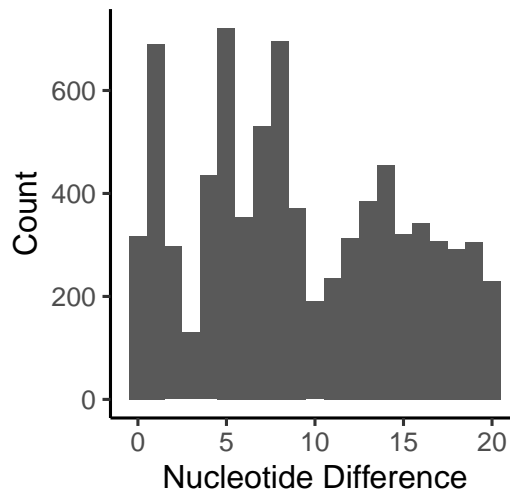
IGHV4-61*01

9624 sequences assigned
623 (6.5%) exact matches, in which:
352 unique CDR3
6 unique J



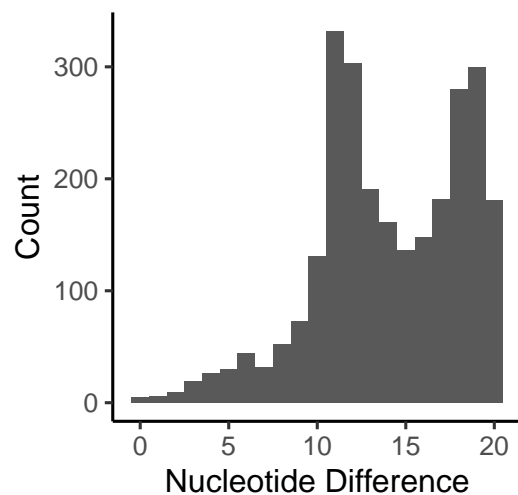
IGHV6-1*01_02

10756 sequences assigned
317 (2.9%) exact matches, in which:
168 unique CDR3
5 unique J



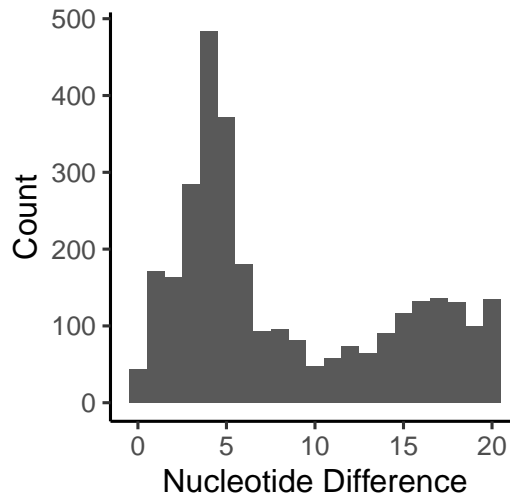
IGHV4-61*08

4081 sequences assigned
5 (0.1%) exact matches, in which:
4 unique CDR3
2 unique J



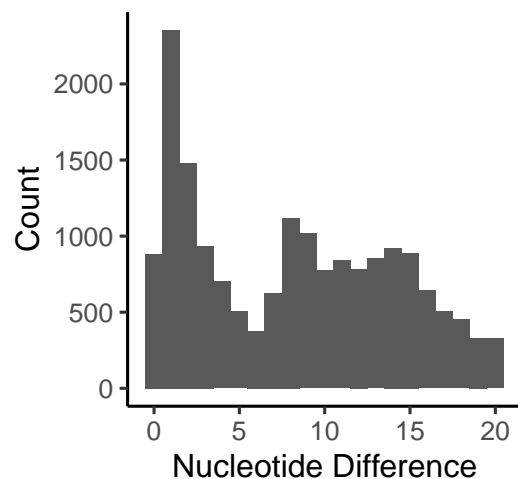
IGHV7-4-1*02

6102 sequences assigned
43 (0.7%) exact matches, in which:
32 unique CDR3
6 unique J

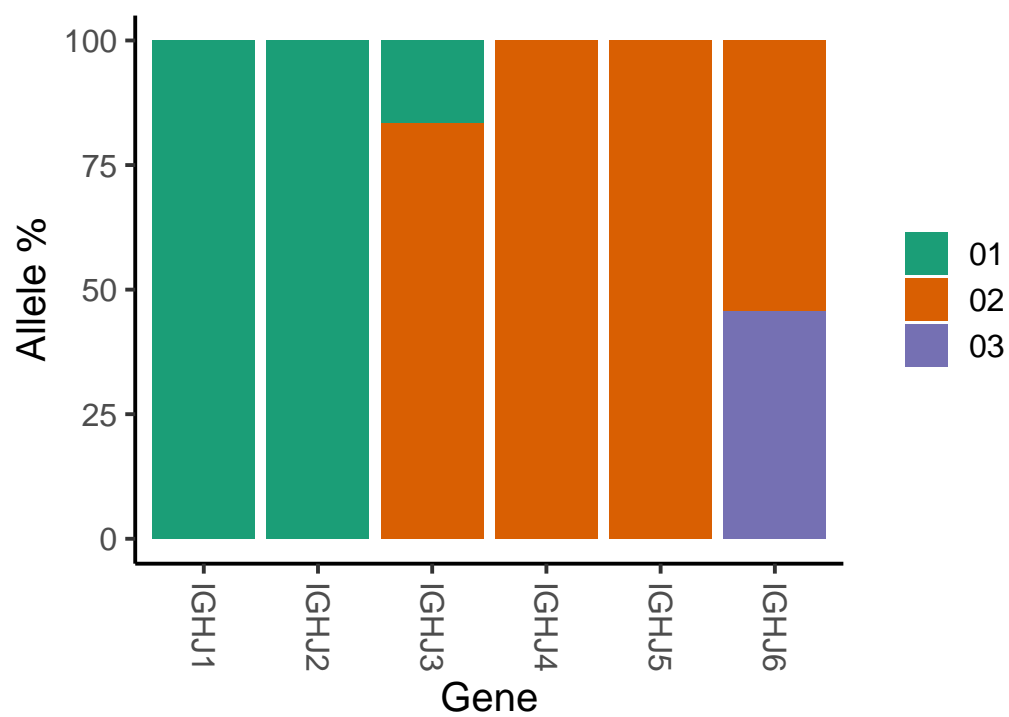


IGHV5-51*01_03

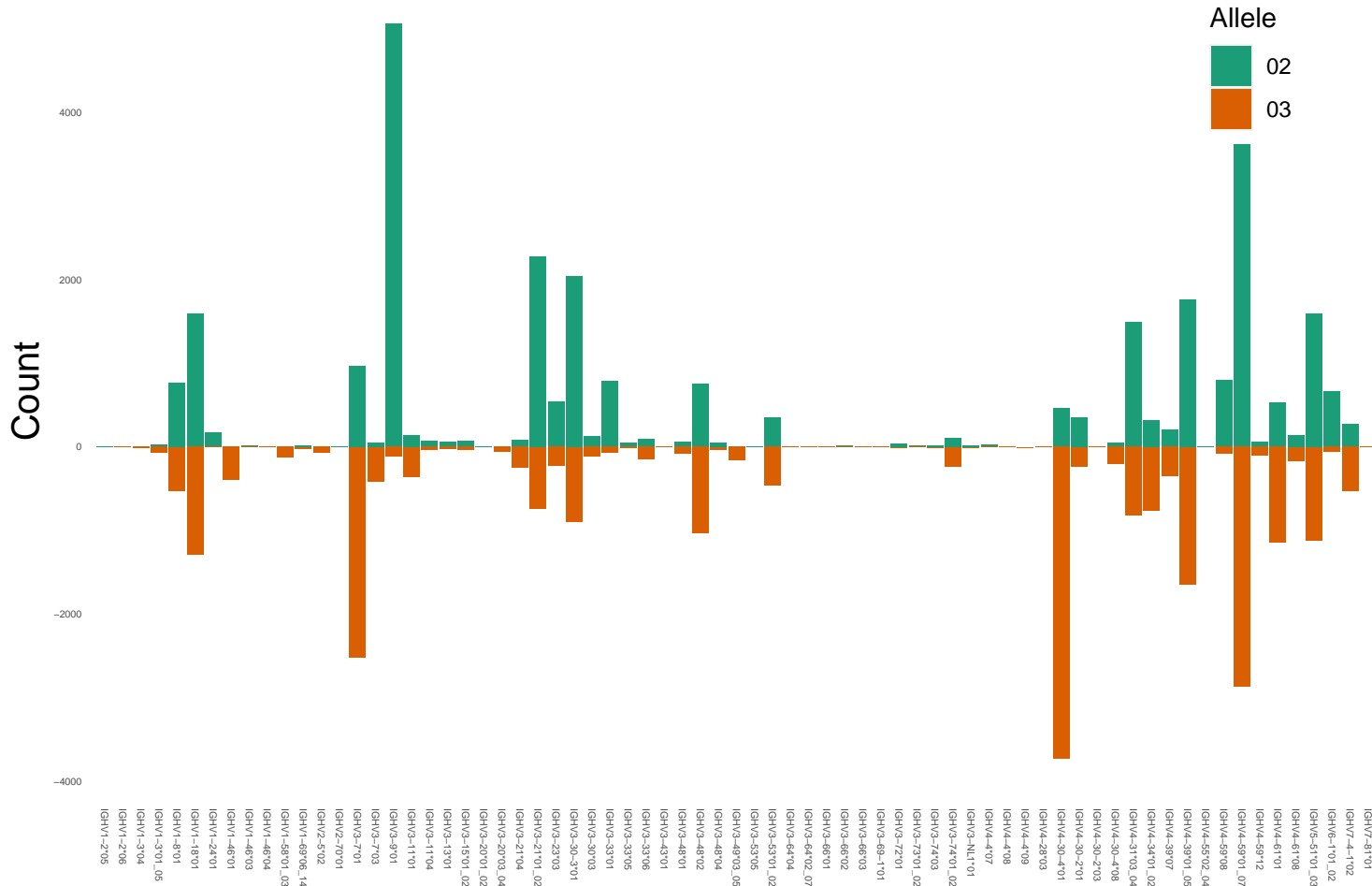
19865 sequences assigned
881 (4.4%) exact matches, in which:
498 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.