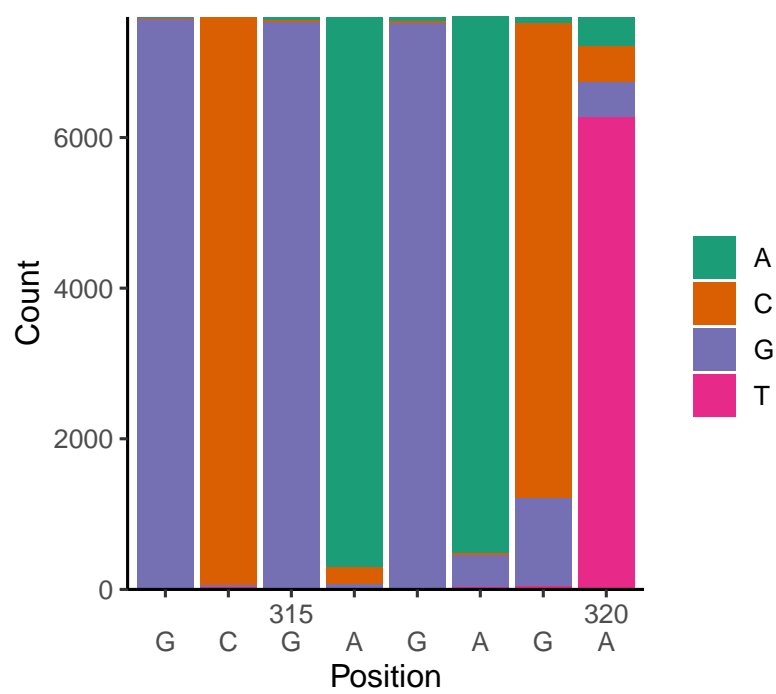
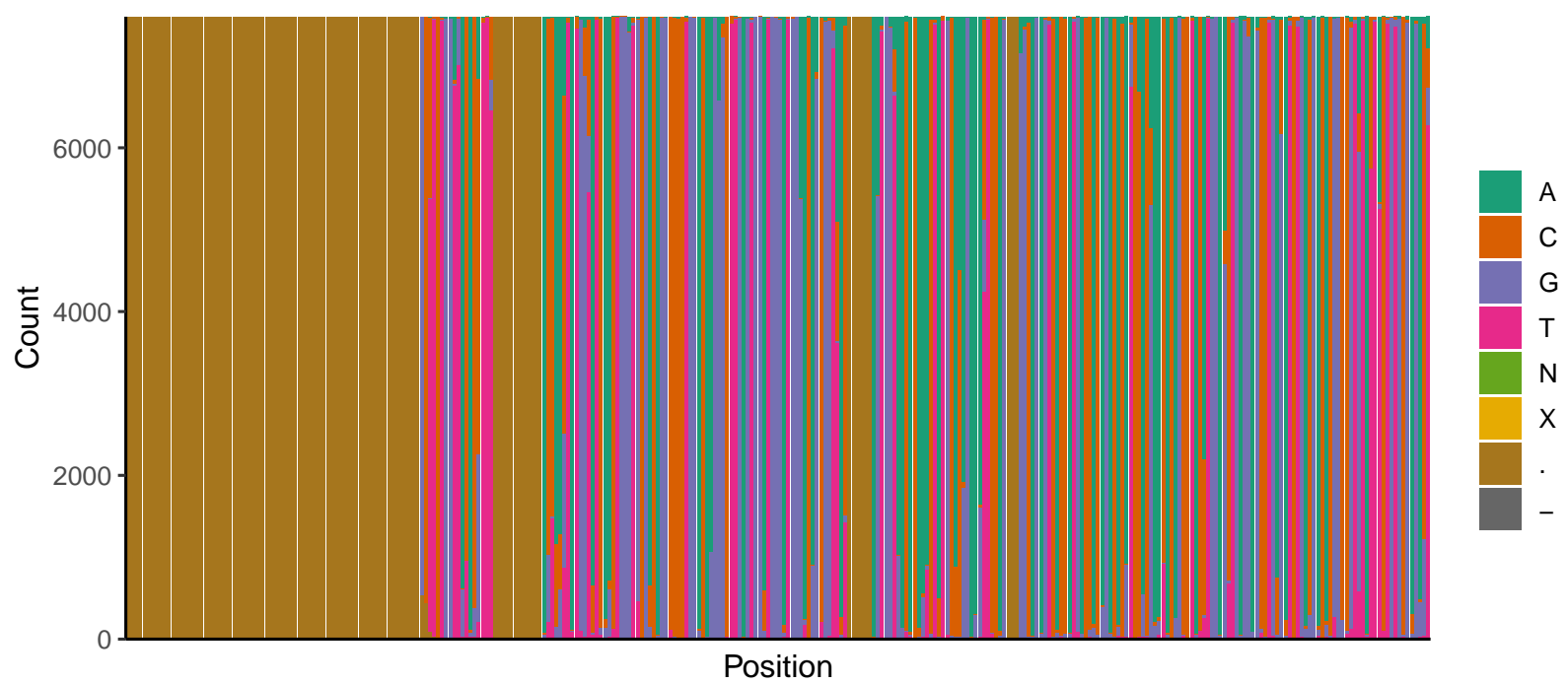


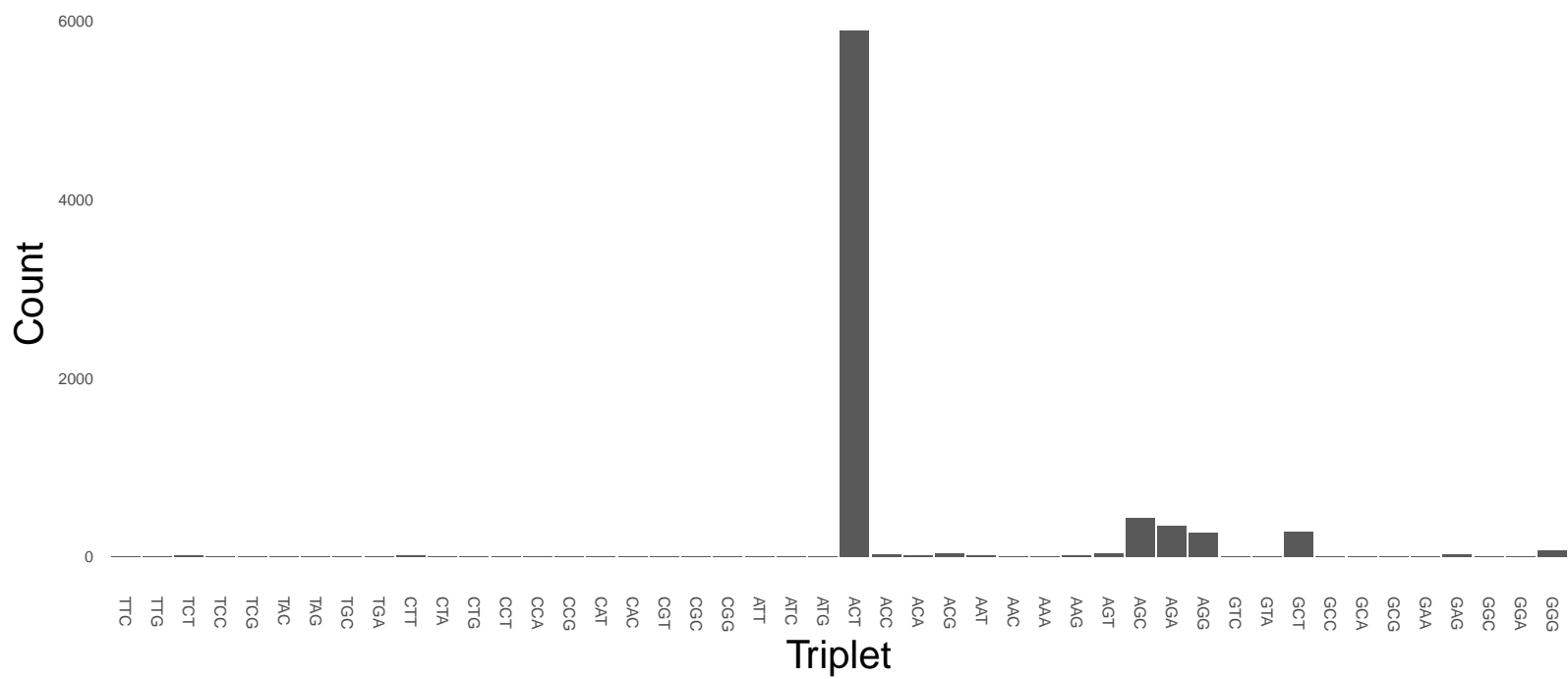
Gene IGHV1-18*01_G107A_G119A_T167A_C173G_G210A_G254A



Gene IGHV1-18*01_G107A_G119A_T167A_C173G_G210A_G254A

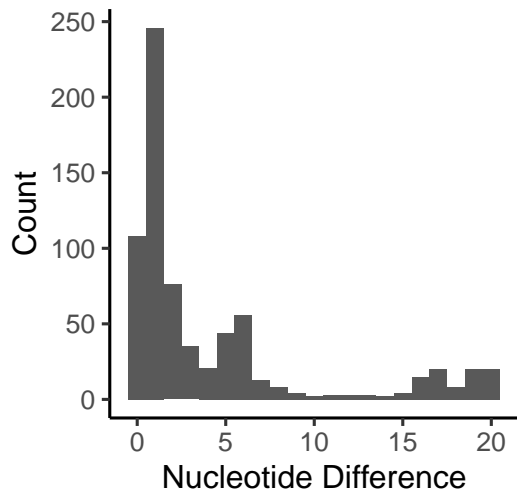


IGHV1-18*01_G107A_G119A_T167A_C173G_G210A_G254A- Final 3 nucleotides as a triplet



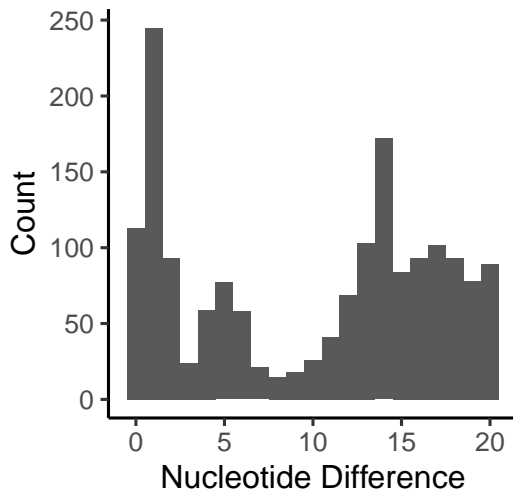
IGHV1-2*05

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



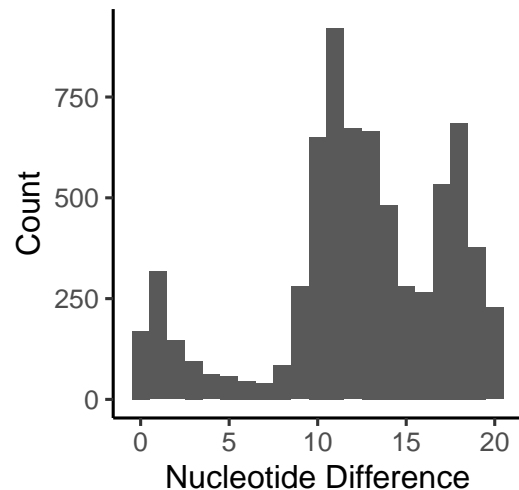
IGHV1-3*01_05

2568 sequences assigned
113 (4.4%) exact matches, in which:
71 unique CDR3
5 unique J



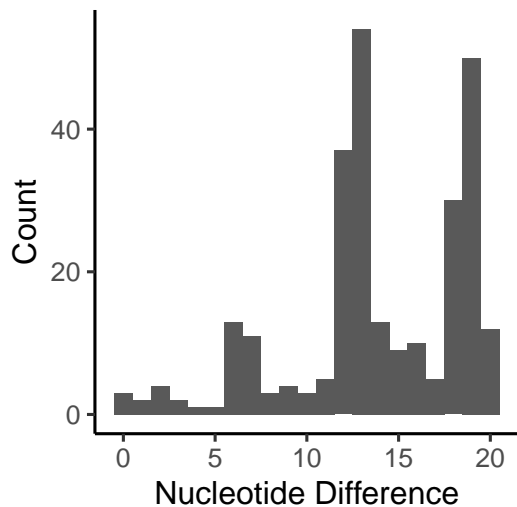
IGHV1-18*01_G107A_G

7601 sequences assigned
169 (2.2%) exact matches, in which:
92 unique CDR3
6 unique J



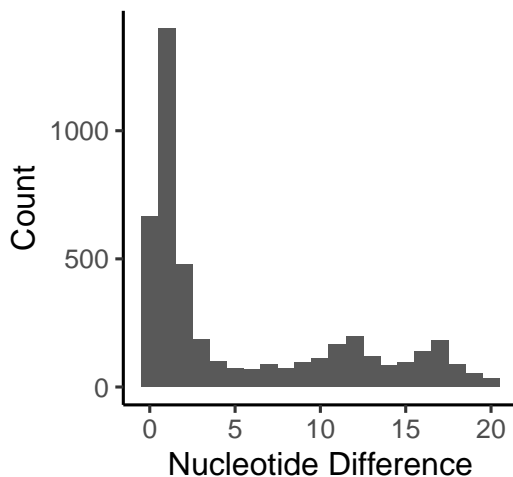
IGHV1-2*06

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



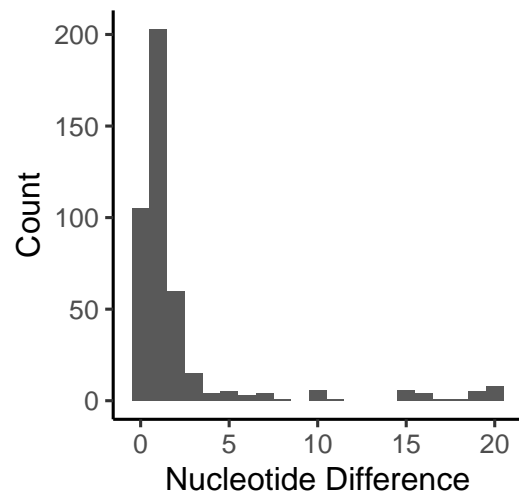
IGHV1-8*01

5534 sequences assigned
666 (12%) exact matches, in which:
387 unique CDR3
6 unique J



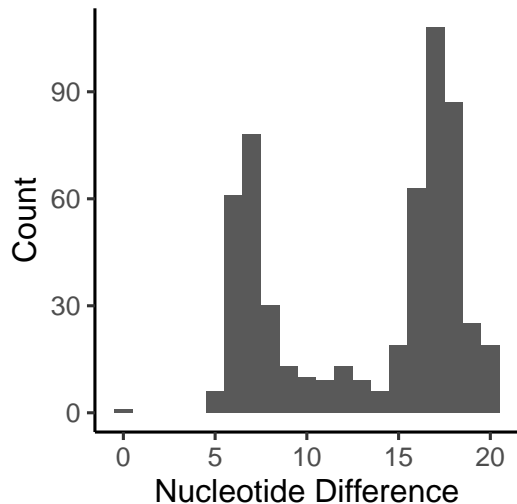
IGHV1-24*01

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



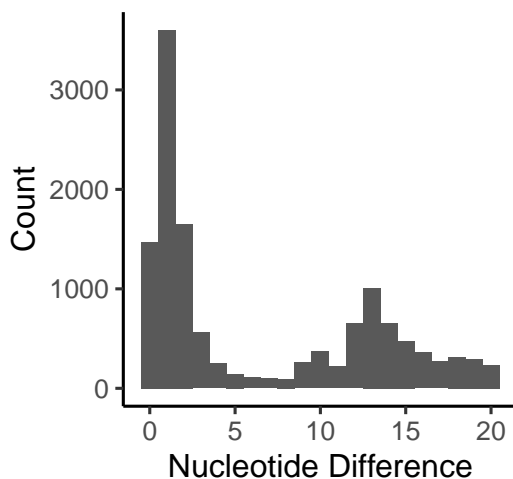
IGHV1-3*04

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



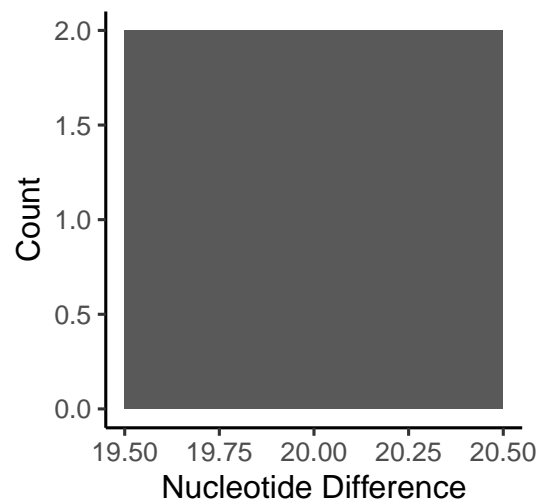
IGHV1-18*01

17051 sequences assigned
1473 (8.6%) exact matches, in which:
857 unique CDR3
7 unique J



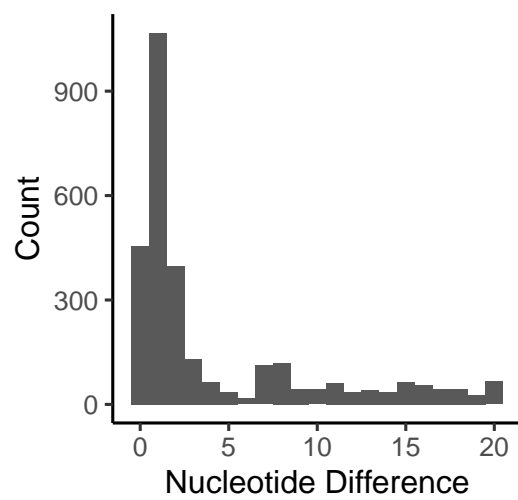
IGHV1-45*02

274 sequences assigned
No exact matches.



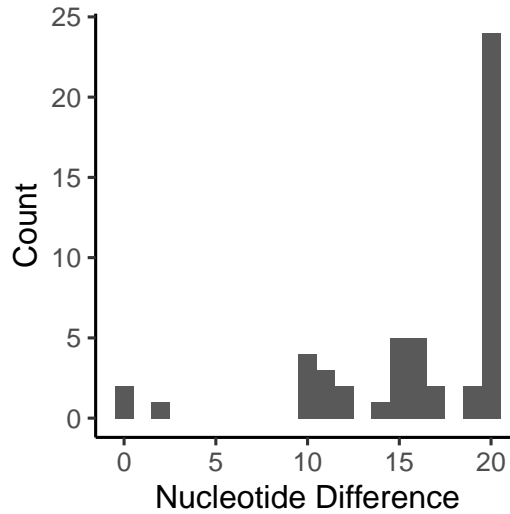
IGHV1-46*01

3276 sequences assigned
456 (13.9%) exact matches, in which:
262 unique CDR3
5 unique J



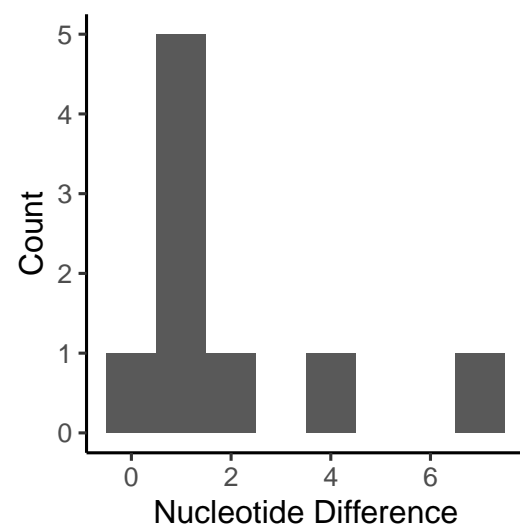
IGHV1-58*01_03

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



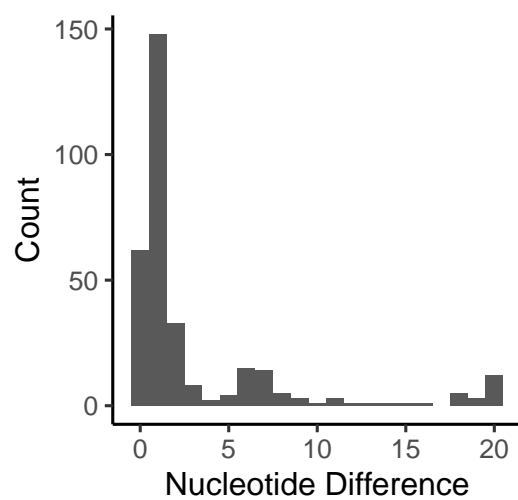
IGHV2-26*01

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



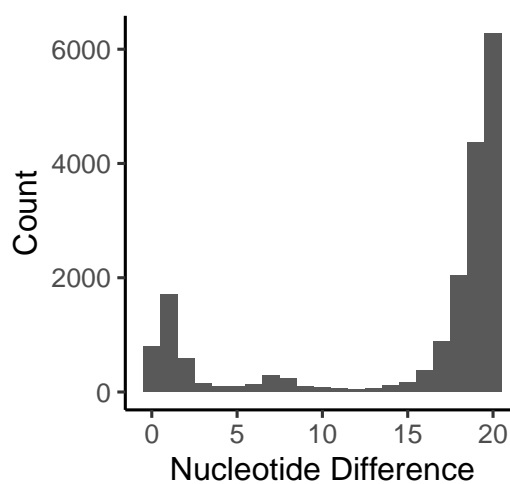
IGHV1-46*03

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



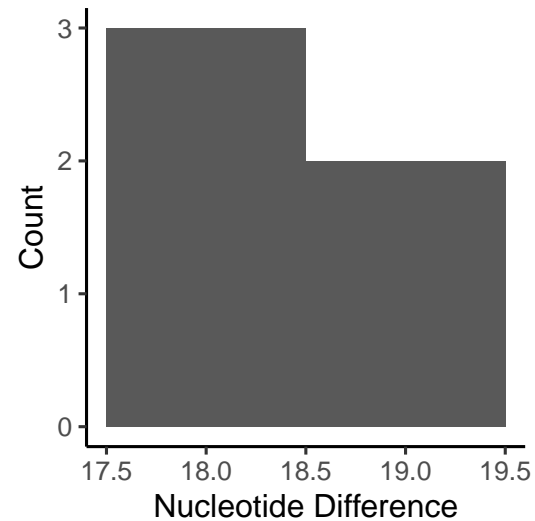
IGHV1-69*01_12_13

37716 sequences assigned
803 (2.1%) exact matches, in which:
493 unique CDR3
7 unique J



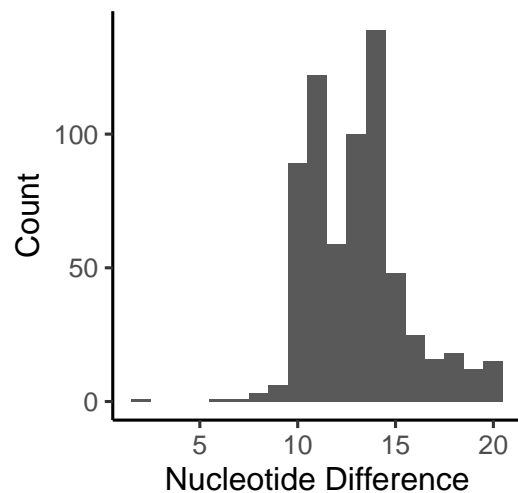
IGHV2-26*03

5 sequences assigned
No exact matches.



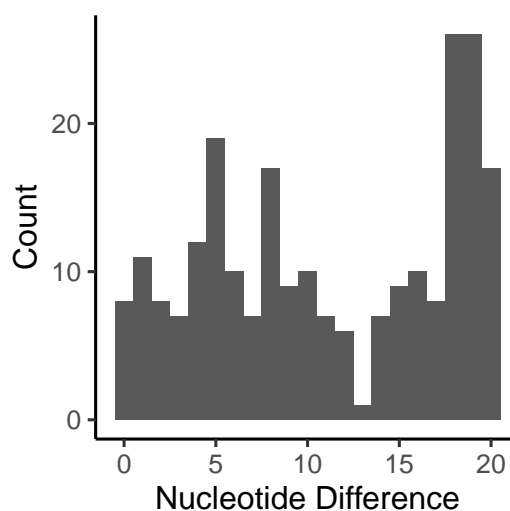
IGHV1-46*04

715 sequences assigned
No exact matches.



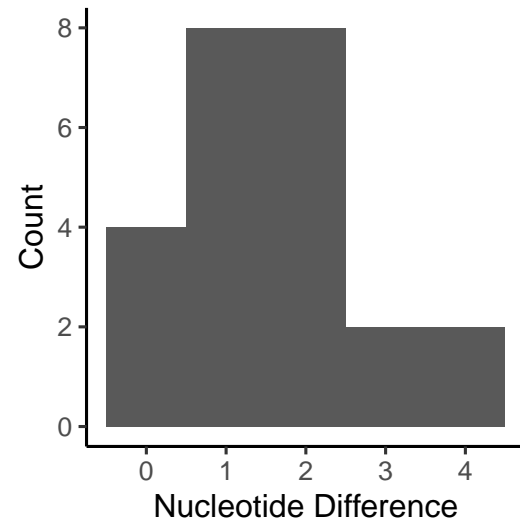
IGHV2-5*02

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



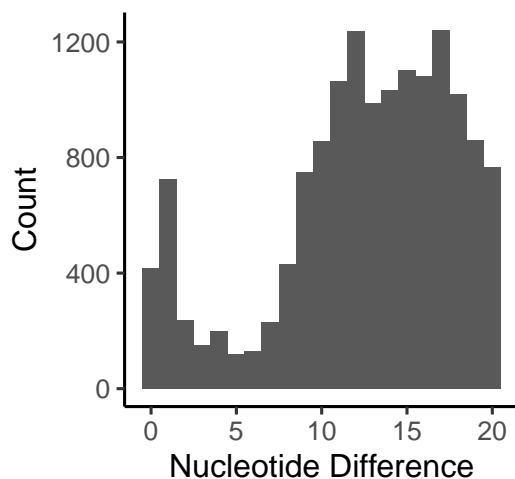
IGHV2-70*01

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



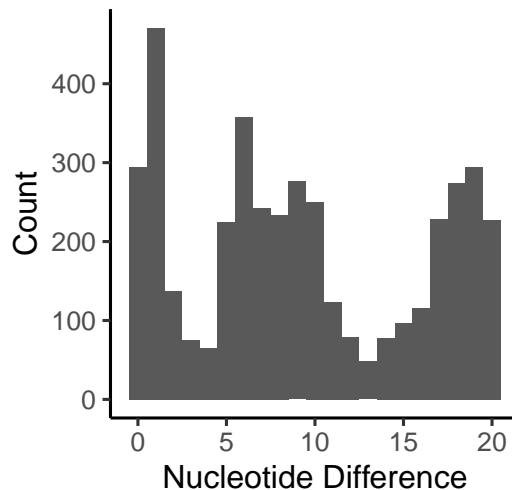
IGHV3-7*01

19401 sequences assigned
417 (2.1%) exact matches, in which:
254 unique CDR3
8 unique J



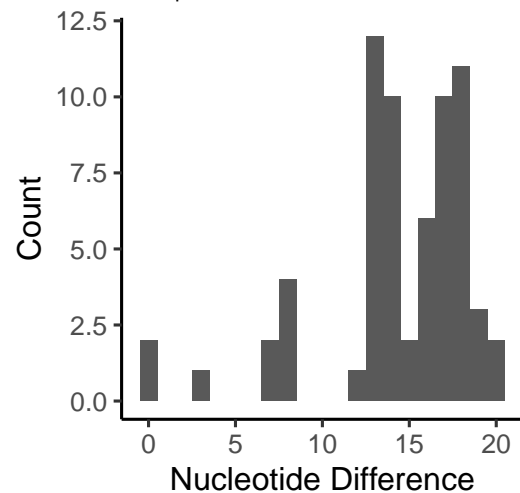
IGHV3-11*01

5296 sequences assigned
294 (5.6%) exact matches, in which:
185 unique CDR3
7 unique J



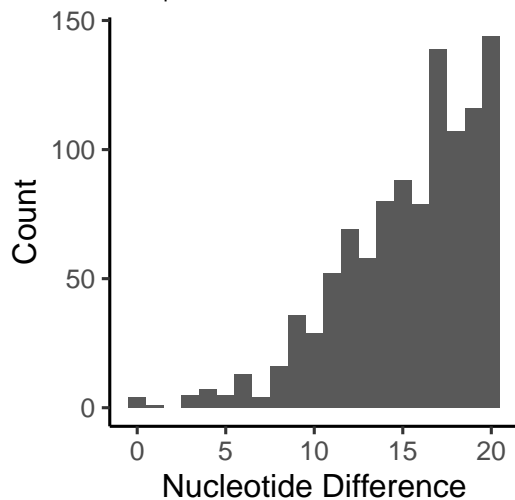
IGHV3-15*04

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



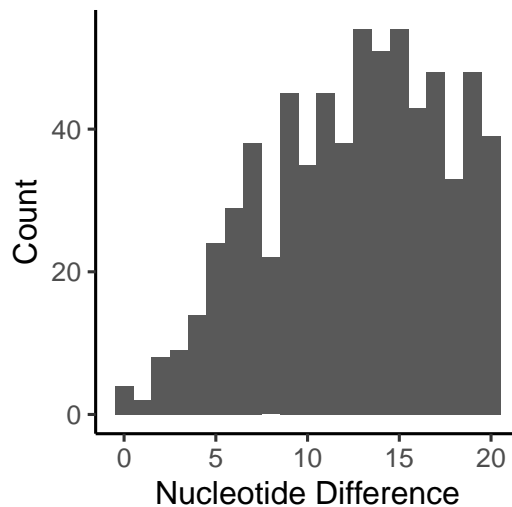
IGHV3-7*03

1659 sequences assigned
4 (0.2%) exact matches, in which:
4 unique CDR3
2 unique J



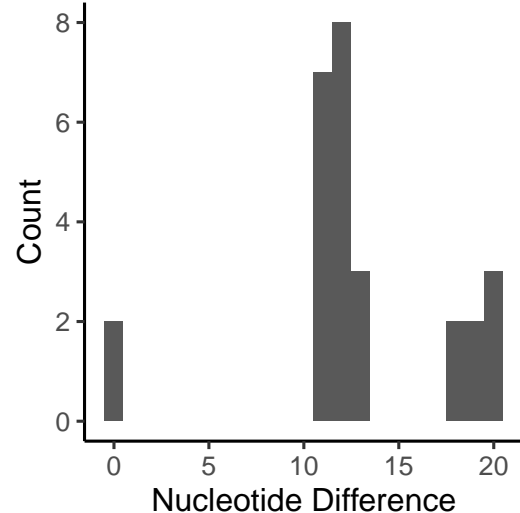
IGHV3-11*04

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



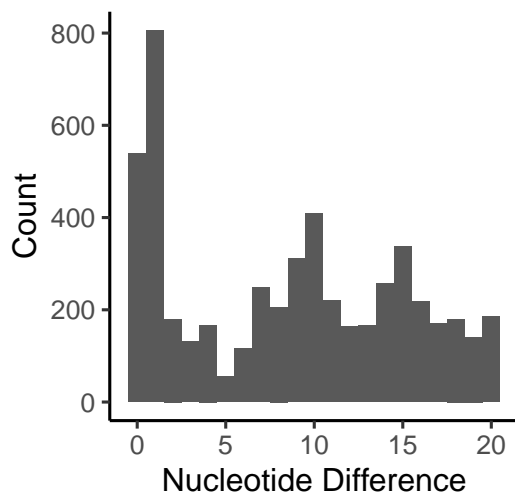
IGHV3-15*05

1346 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



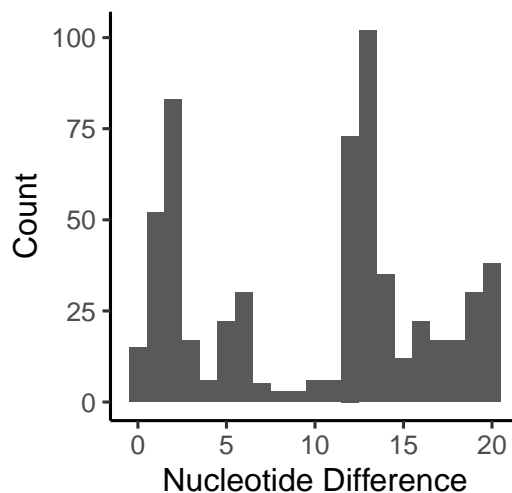
IGHV3-9*01

12636 sequences assigned
538 (4.3%) exact matches, in which:
324 unique CDR3
8 unique J



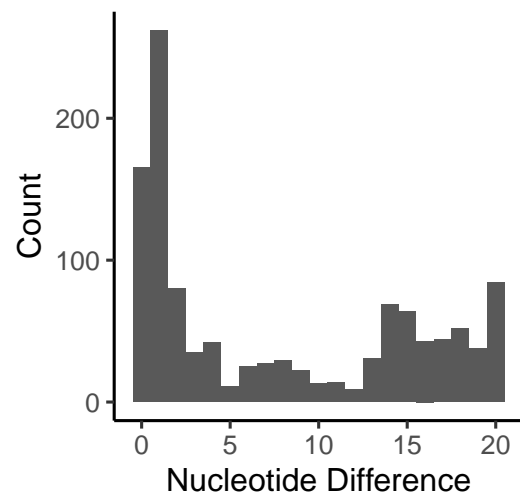
IGHV3-13*01

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



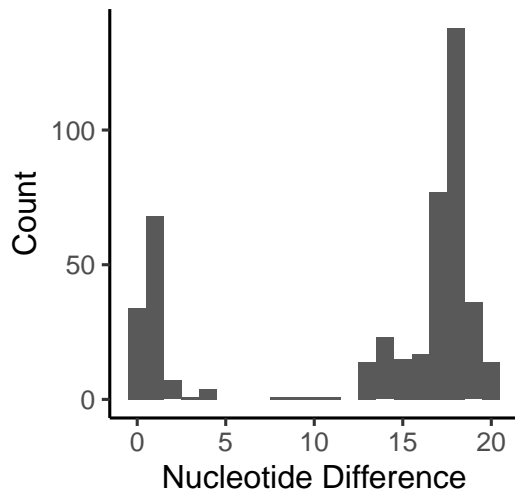
IGHV3-15*01_02

1901 sequences assigned
165 (8.7%) exact matches, in which:
114 unique CDR3
4 unique J



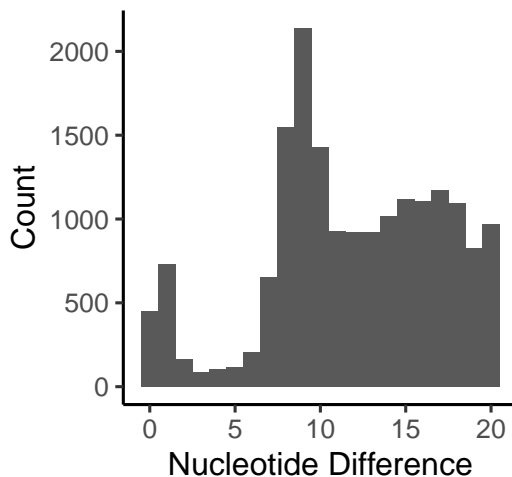
IGHV3-20*01_02

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



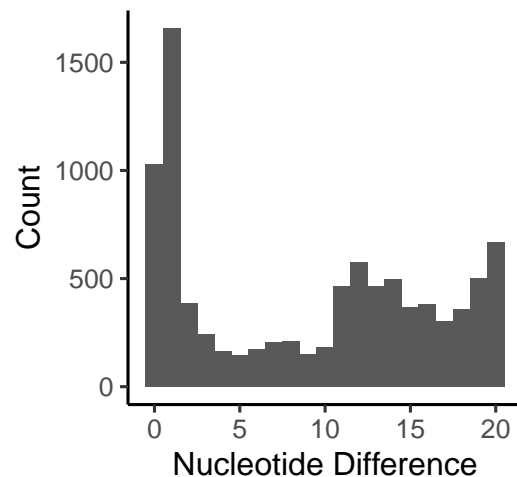
IGHV3-21*01_02

22913 sequences assigned
449 (2%) exact matches, in which:
243 unique CDR3
6 unique J



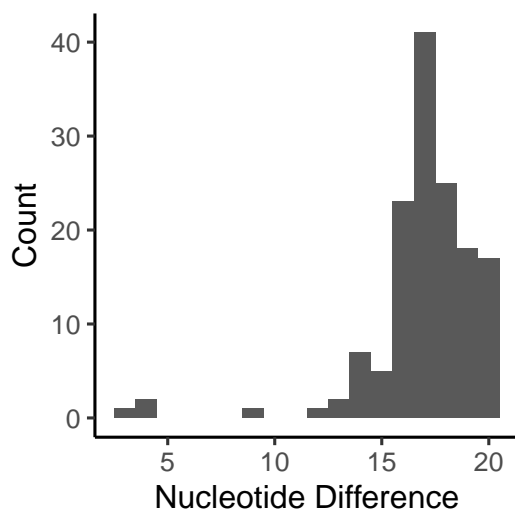
IGHV3-30-3*01

12476 sequences assigned
1029 (8.2%) exact matches, in which:
629 unique CDR3
6 unique J



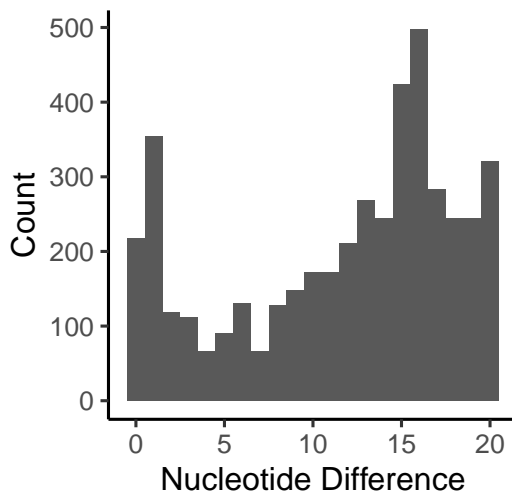
IGHV3-20*03_04

250 sequences assigned
No exact matches.



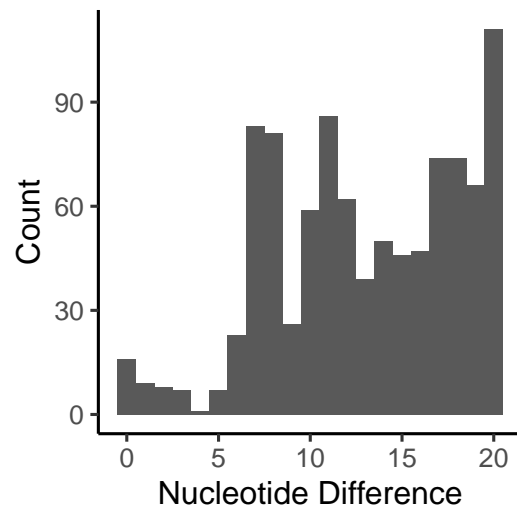
IGHV3-23*03

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



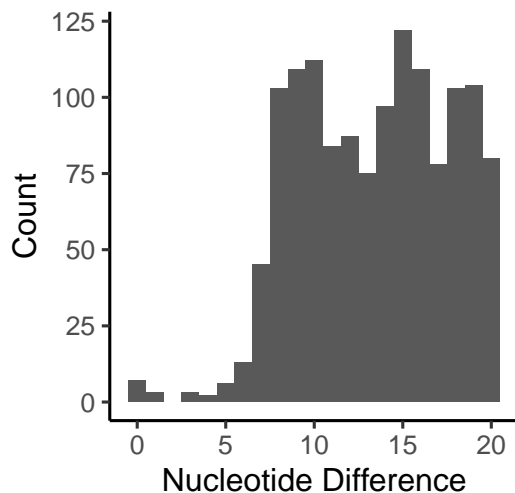
IGHV3-30*03

2606 sequences assigned
16 (0.6%) exact matches, in which:
16 unique CDR3
4 unique J



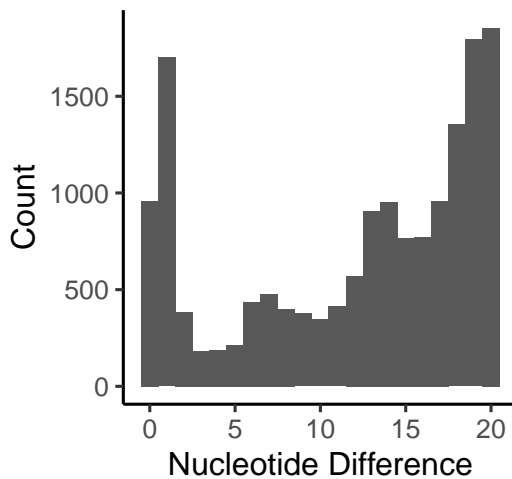
IGHV3-21*04

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



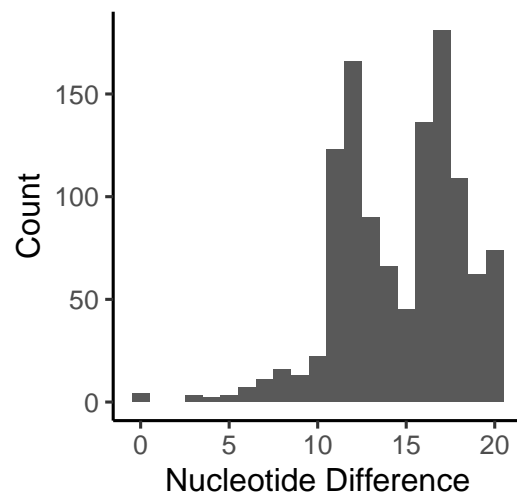
IGHV3-23*01_04

29007 sequences assigned
958 (3.3%) exact matches, in which:
586 unique CDR3
6 unique J



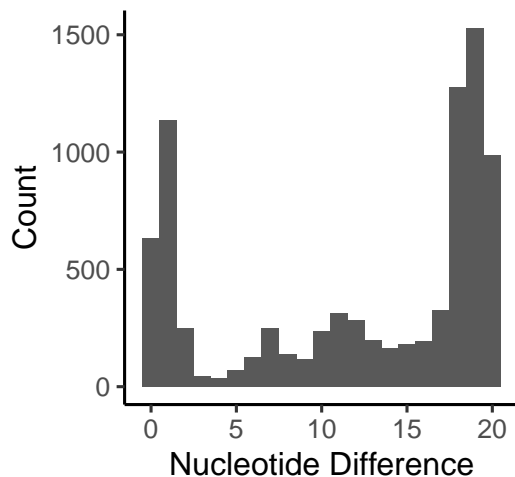
IGHV3-30*04

1909 sequences assigned
4 (0.2%) exact matches, in which:
4 unique CDR3
2 unique J



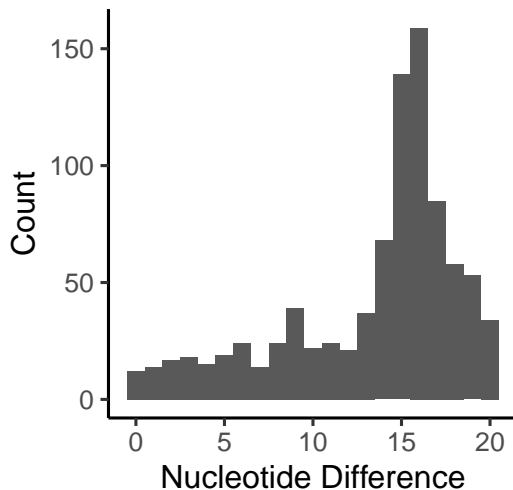
IGHV3–30*18

16037 sequences assigned
632 (3.9%) exact matches, in which:
350 unique CDR3
7 unique J



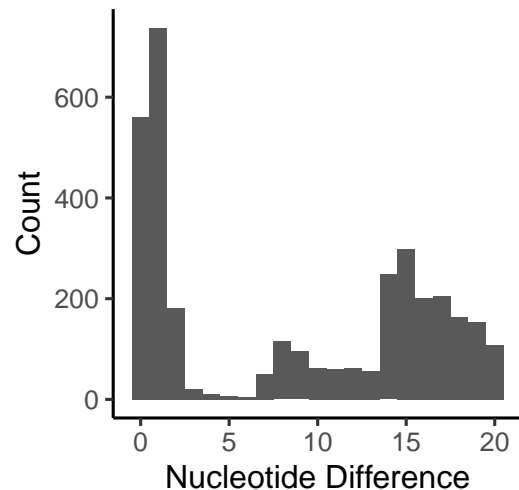
IGHV3–33*06

1211 sequences assigned
12 (1%) exact matches, in which:
11 unique CDR3
3 unique J



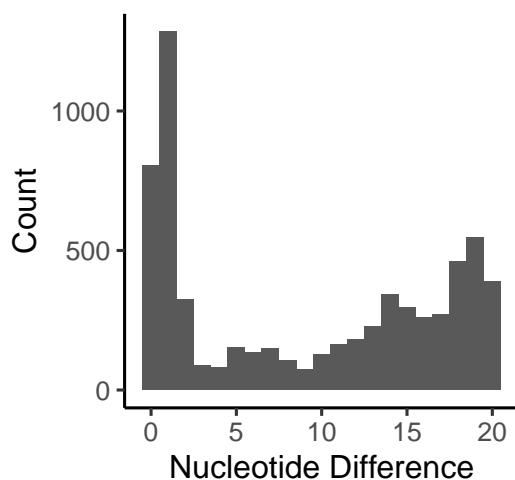
IGHV3–48*02

4644 sequences assigned
560 (12.1%) exact matches, in which:
373 unique CDR3
5 unique J



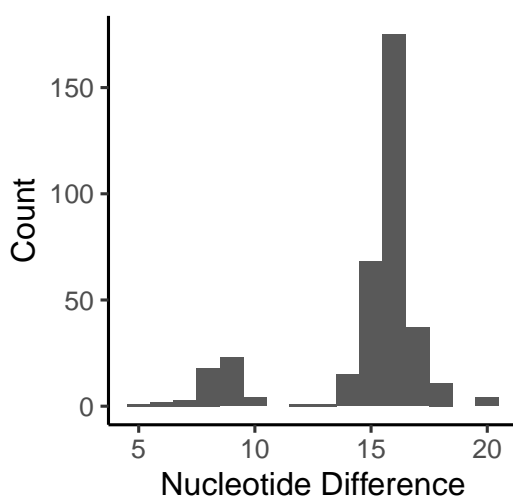
IGHV3–33*01

8069 sequences assigned
805 (10%) exact matches, in which:
463 unique CDR3
7 unique J



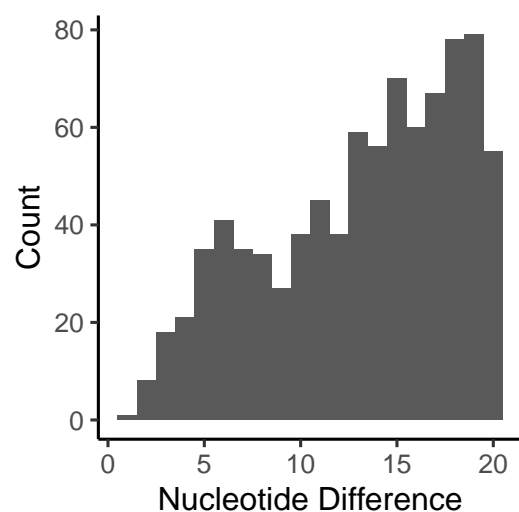
IGHV3–43*01

379 sequences assigned
No exact matches.



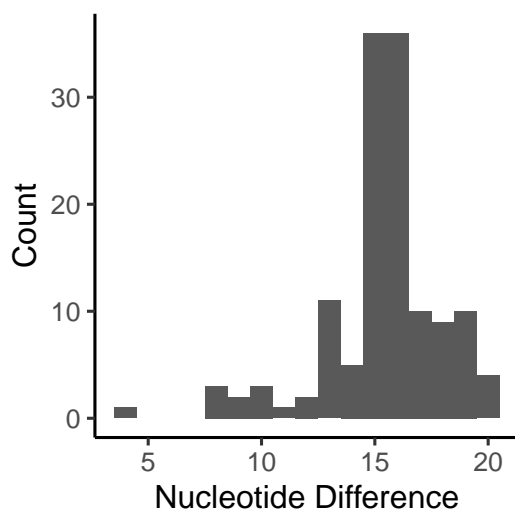
IGHV3–48*04

1141 sequences assigned
No exact matches.



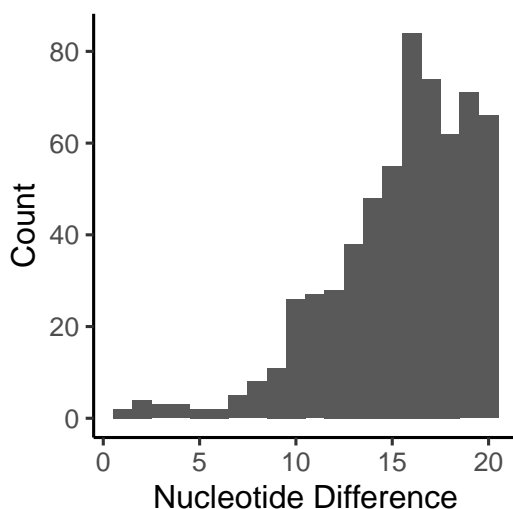
IGHV3–33*05

216 sequences assigned
No exact matches.



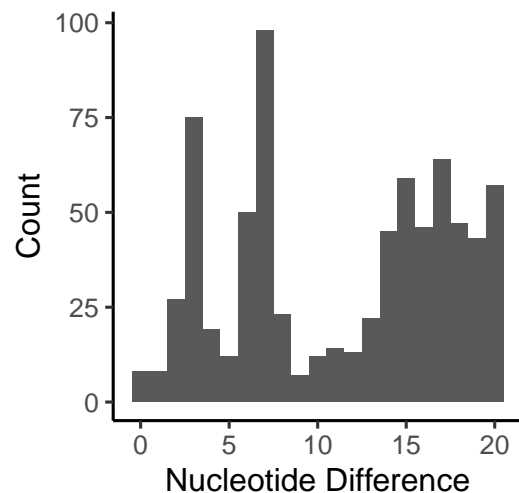
IGHV3–48*01

1289 sequences assigned
No exact matches.



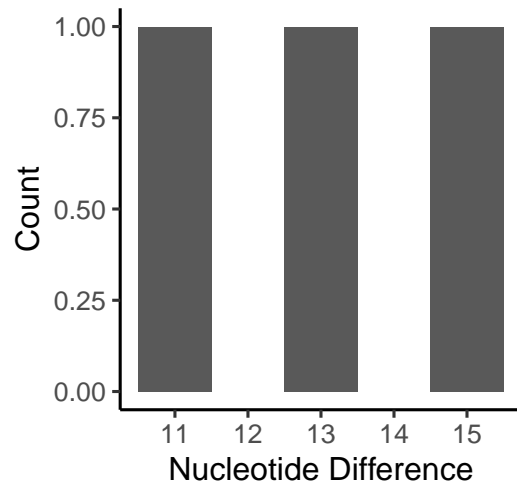
IGHV3–49*03_05

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



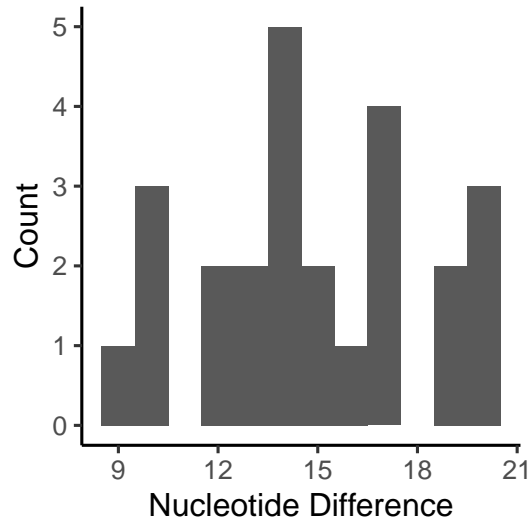
IGHV3-52*01_03

3 sequences assigned
No exact matches.



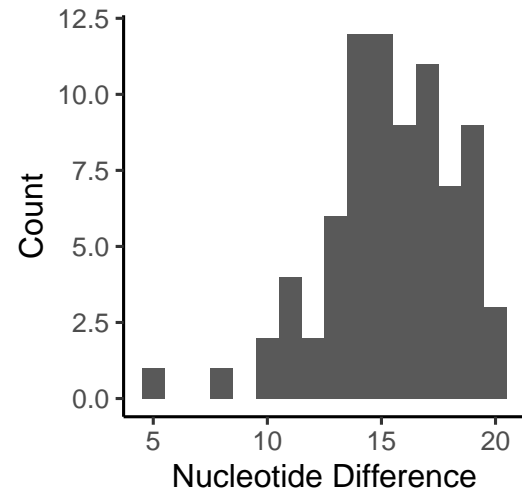
IGHV3-64*04

32 sequences assigned
No exact matches.



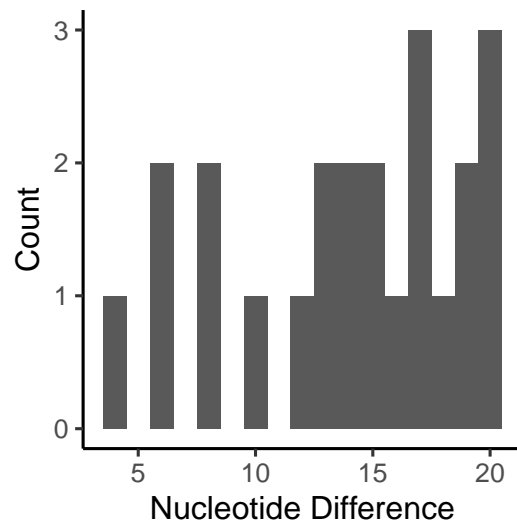
IGHV3-66*02

111 sequences assigned
No exact matches.



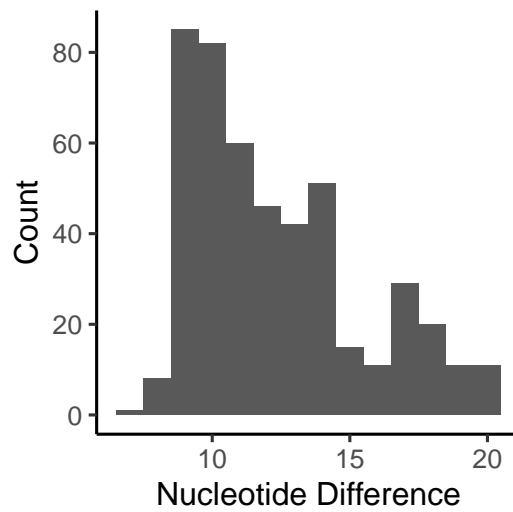
IGHV3-53*05

39 sequences assigned
No exact matches.



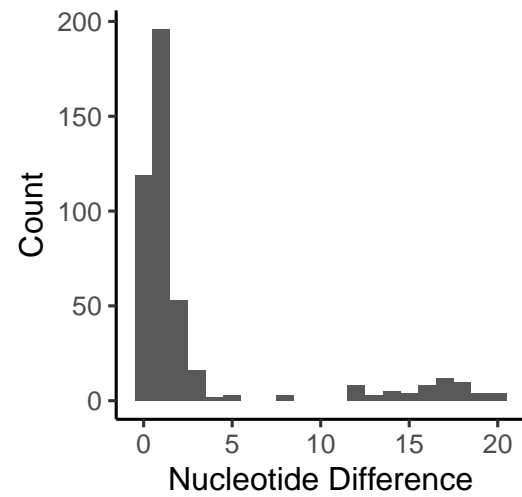
IGHV3-64*02_07

536 sequences assigned
No exact matches.



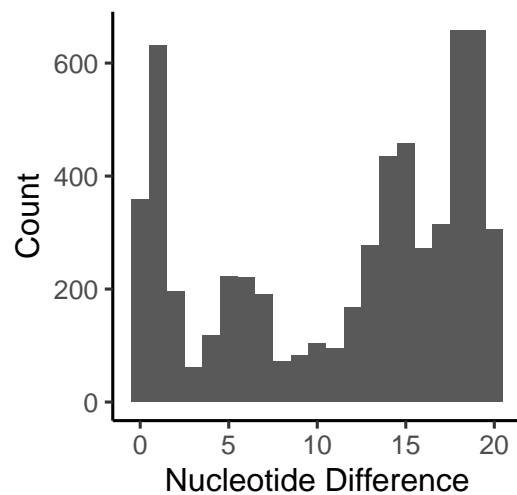
IGHV3-66*03

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



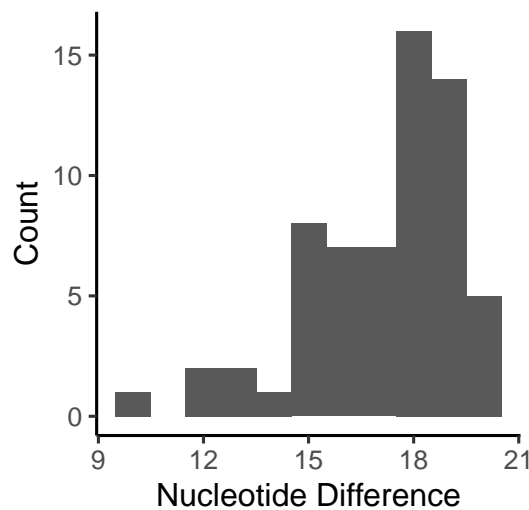
IGHV3-53*01_02

7902 sequences assigned
359 (4.5%) exact matches, in which:
225 unique CDR3
5 unique J



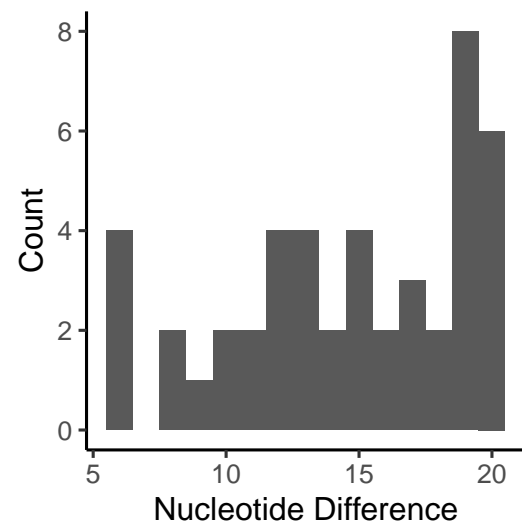
IGHV3-66*01

98 sequences assigned
No exact matches.



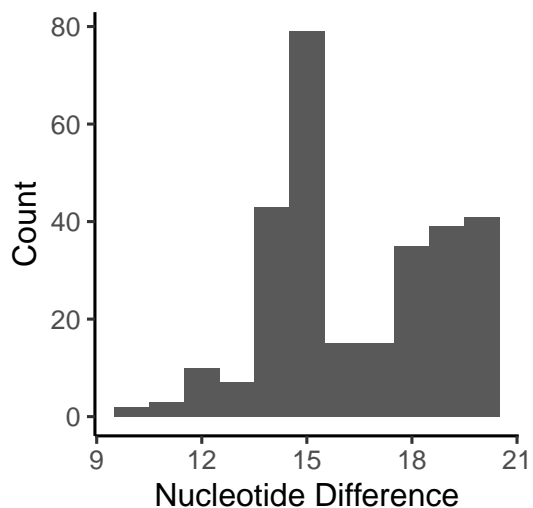
IGHV3-69-1*01

166 sequences assigned
No exact matches.



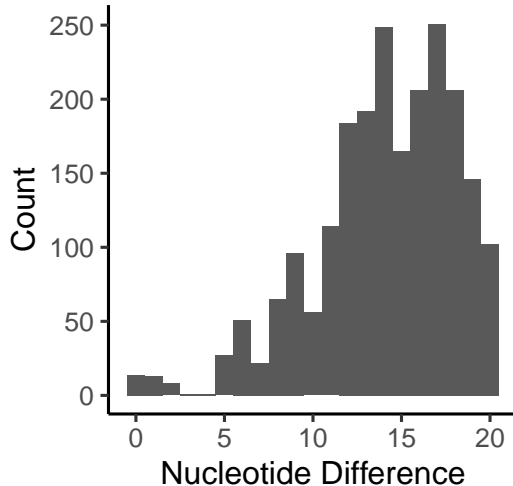
IGHV3-72*01

398 sequences assigned
No exact matches.



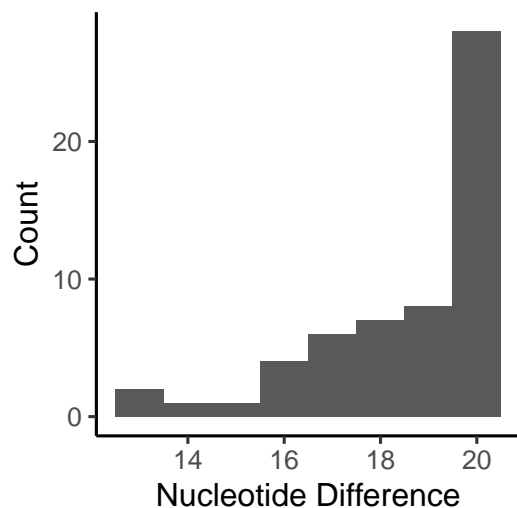
IGHV3-74*01_02

2584 sequences assigned
14 (0.5%) exact matches, in which:
8 unique CDR3
4 unique J



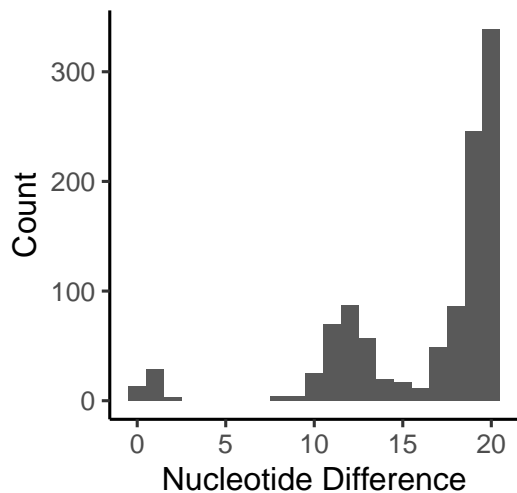
IGHV4-4*08

157 sequences assigned
No exact matches.



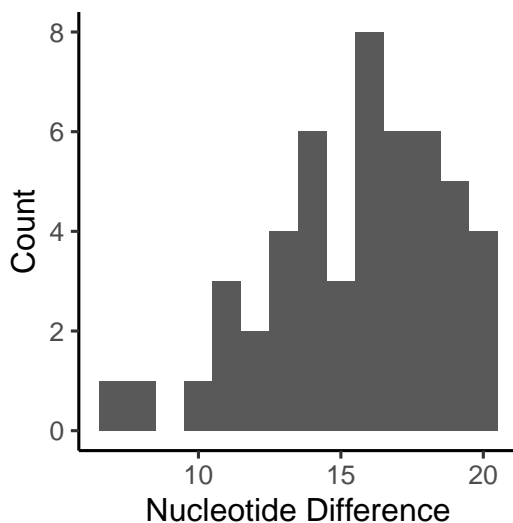
IGHV3-73*01_02

1470 sequences assigned
13 (0.9%) exact matches, in which:
7 unique CDR3
2 unique J



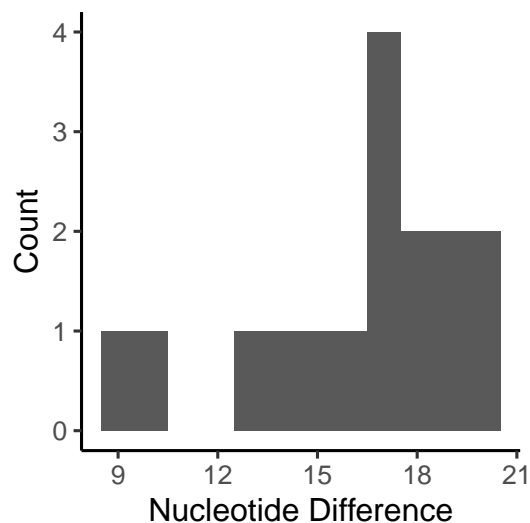
IGHV3-NL1*01

122 sequences assigned
No exact matches.



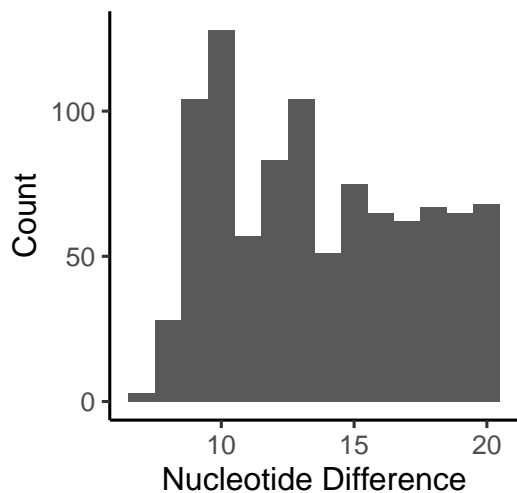
IGHV4-4*09

31 sequences assigned
No exact matches.



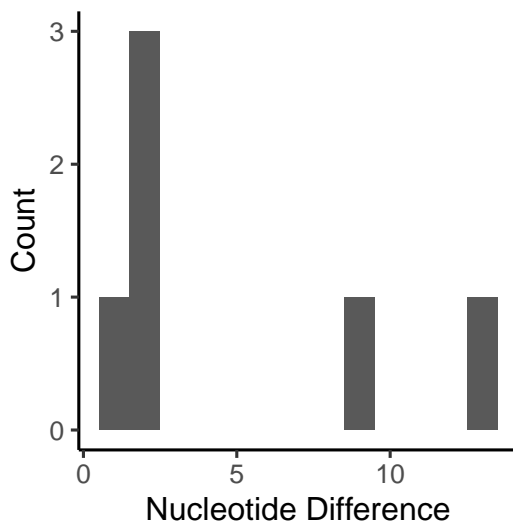
IGHV3-74*03

1666 sequences assigned
No exact matches.



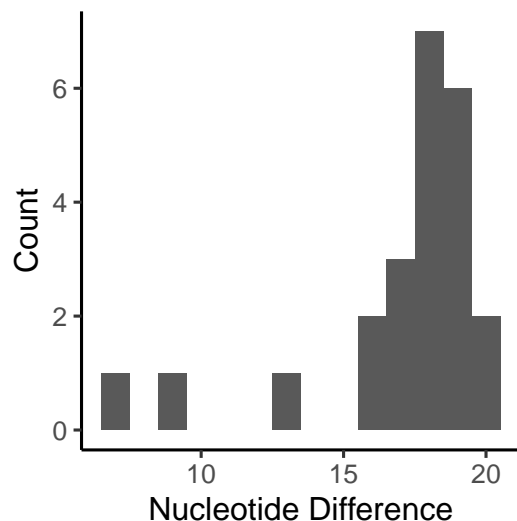
IGHV4-4*07

47 sequences assigned
No exact matches.



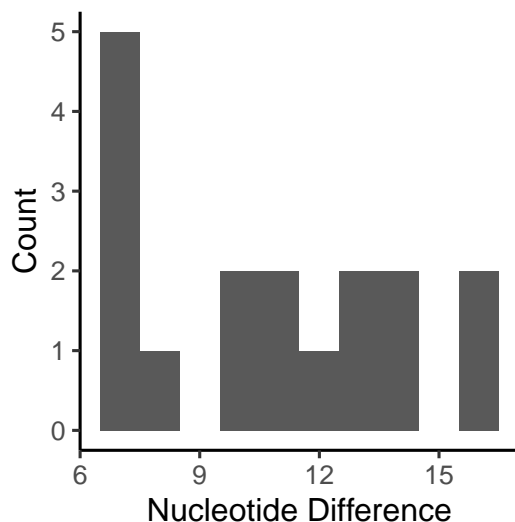
IGHV4-4*02_03

34 sequences assigned
No exact matches.



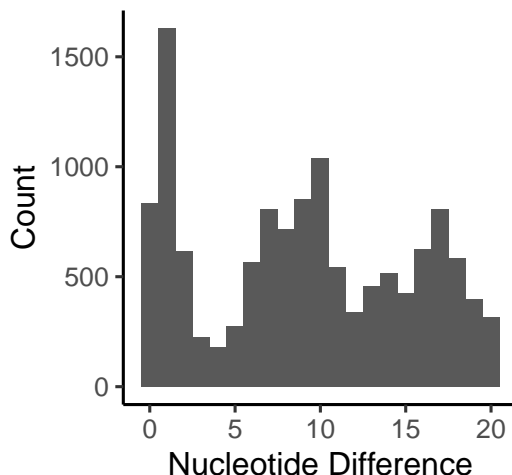
IGHV4-28*03

19 sequences assigned
No exact matches.



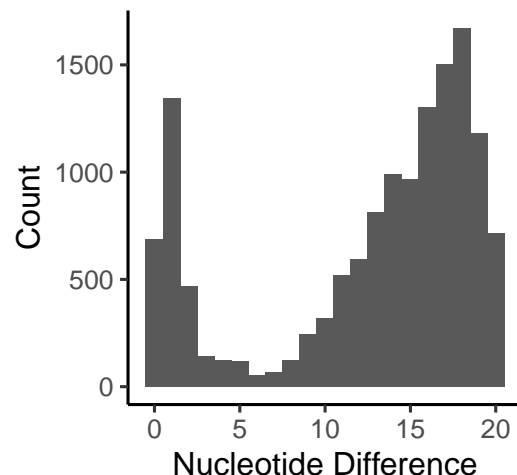
IGHV4-30-4*01

16803 sequences assigned
835 (5%) exact matches, in which:
488 unique CDR3
6 unique J



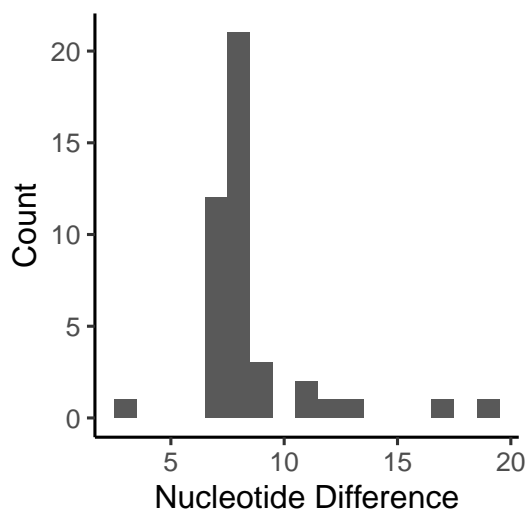
IGHV4-34*01_02

17480 sequences assigned
688 (3.9%) exact matches, in which:
418 unique CDR3
6 unique J



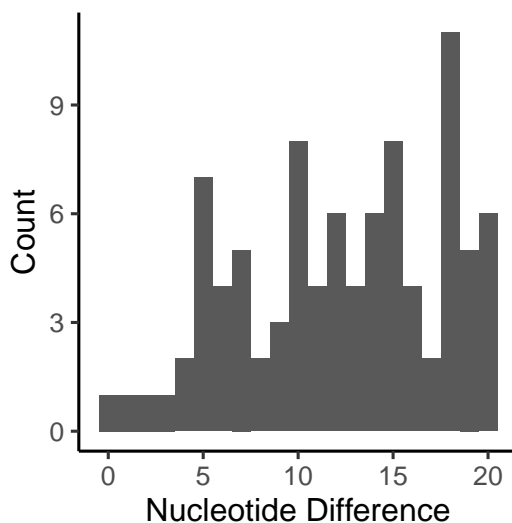
IGHV4-28*01_07

44 sequences assigned
No exact matches.



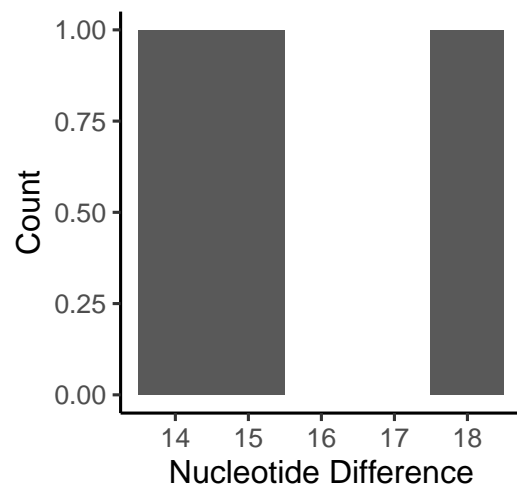
IGHV4-30-2*05

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



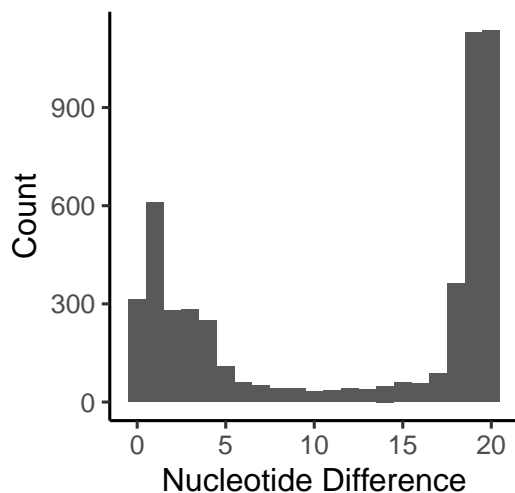
IGHV4-38-2*01

18 sequences assigned
No exact matches.



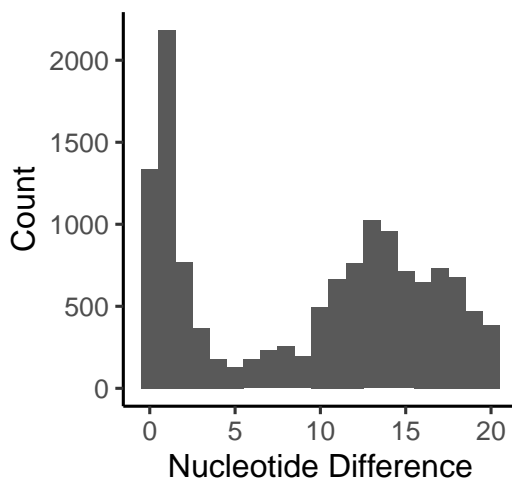
IGHV4-30-2*01

7406 sequences assigned
314 (4.2%) exact matches, in which:
168 unique CDR3
3 unique J



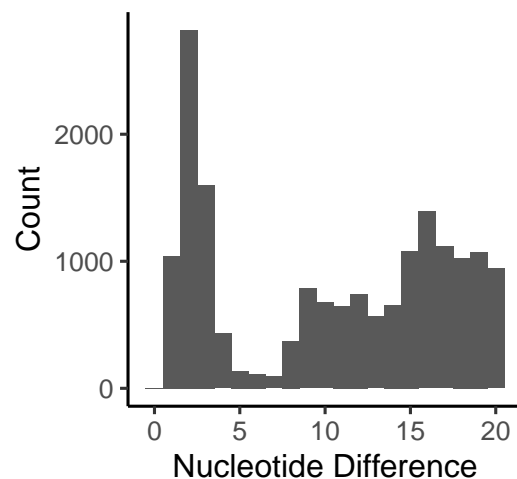
IGHV4-31*02

17815 sequences assigned
1336 (7.5%) exact matches, in which:
835 unique CDR3
8 unique J



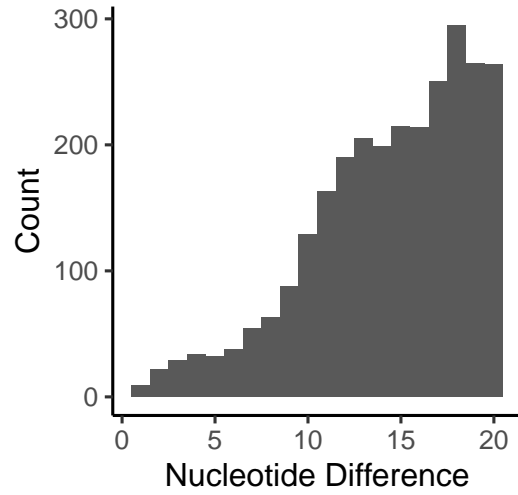
IGHV4-39*02

29082 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



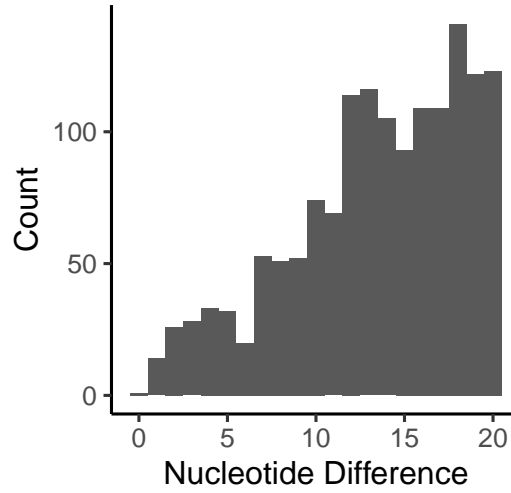
IGHV4-39*07

4636 sequences assigned
No exact matches.



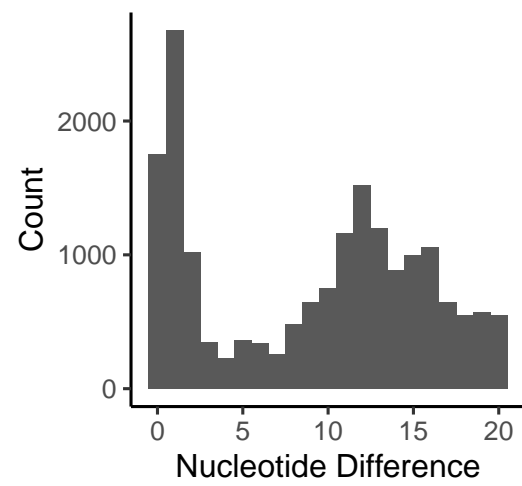
IGHV4-59*08

2859 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



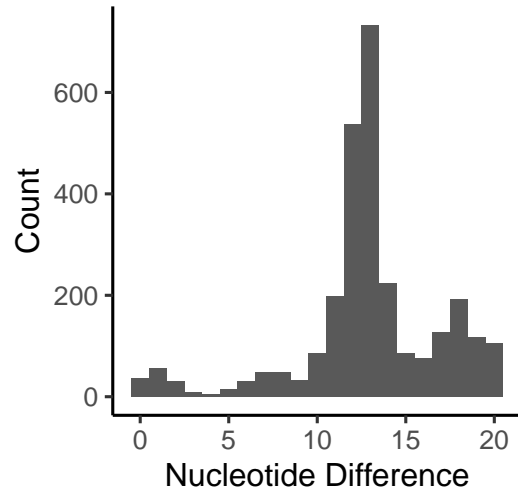
IGHV4-59*01_07

23133 sequences assigned
1751 (7.6%) exact matches, in which:
1072 unique CDR3
8 unique J



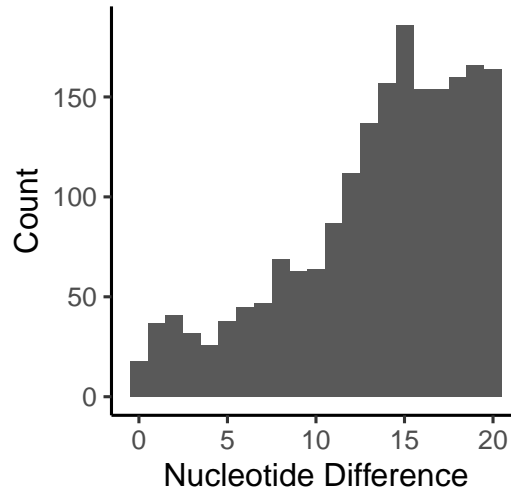
IGHV4-39*01_05

3512 sequences assigned
37 (1.1%) exact matches, in which:
30 unique CDR3
6 unique J



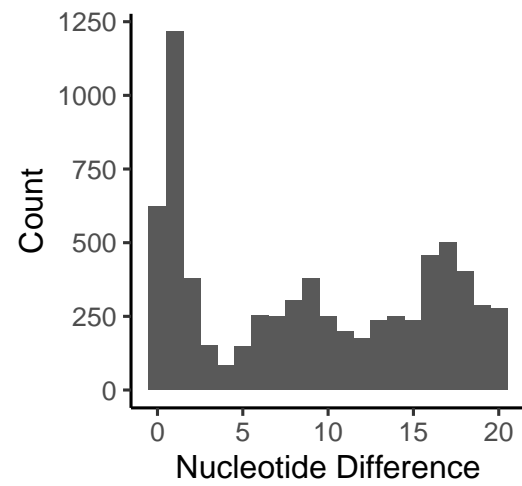
IGHV4-59*12

2816 sequences assigned
18 (0.6%) exact matches, in which:
14 unique CDR3
4 unique J



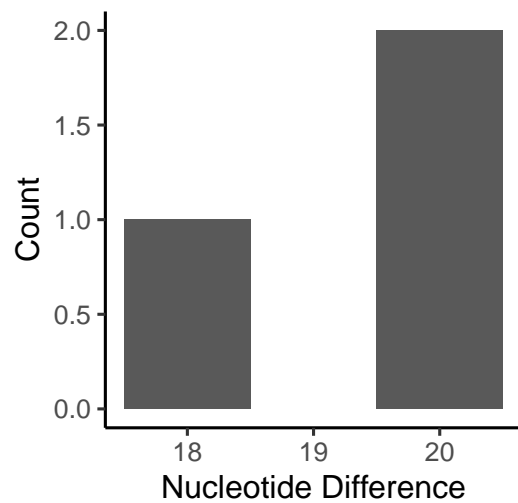
IGHV4-61*01

9672 sequences assigned
623 (6.4%) exact matches, in which:
352 unique CDR3
6 unique J



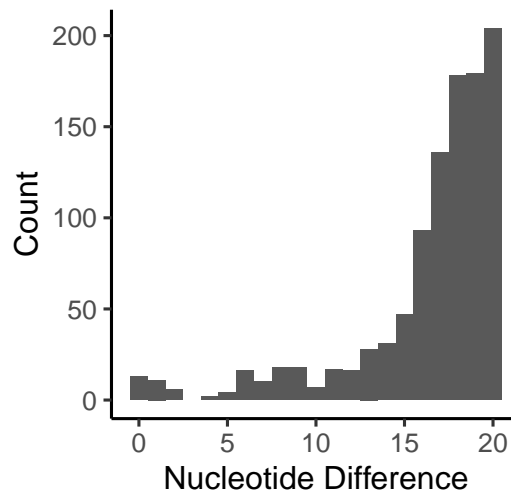
IGHV4-55*09

8 sequences assigned
No exact matches.



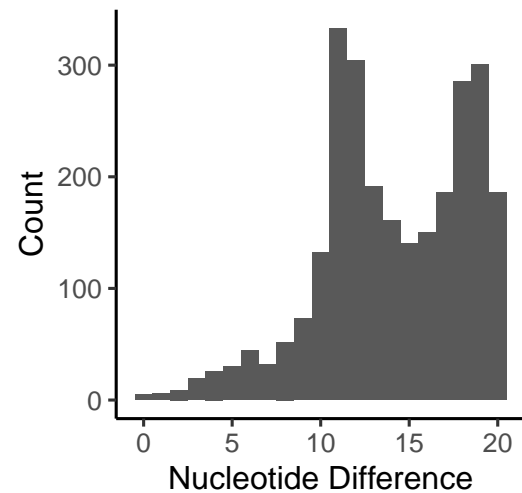
IGHV4-59*13

4675 sequences assigned
13 (0.3%) exact matches, in which:
11 unique CDR3
4 unique J



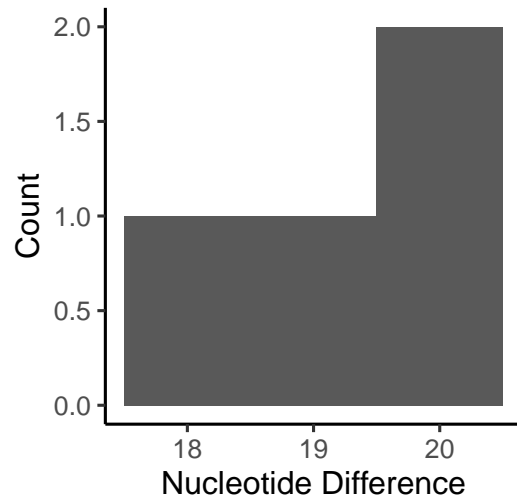
IGHV4-61*08

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



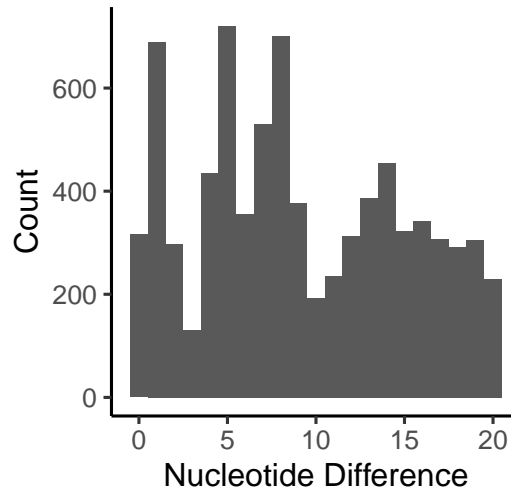
IGHV1/OR15-2*02_03

12 sequences assigned
No exact matches.



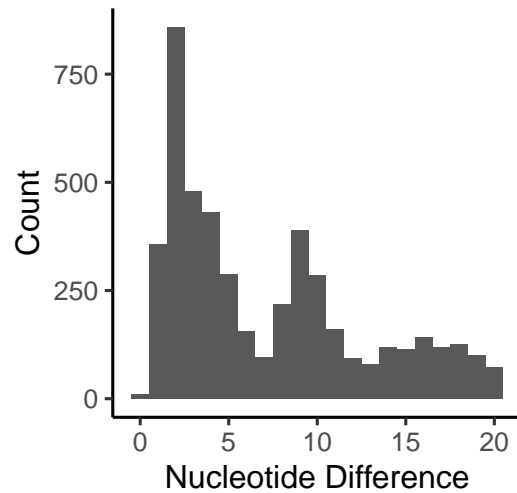
IGHV6-1*01_02

10754 sequences assigned
316 (2.9%) exact matches, in which:
167 unique CDR3
5 unique J



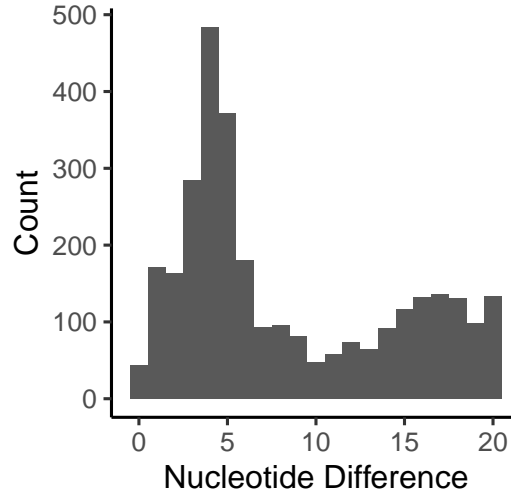
IGHV5-51*07

5812 sequences assigned
10 (0.2%) exact matches, in which:
6 unique CDR3
1 unique J



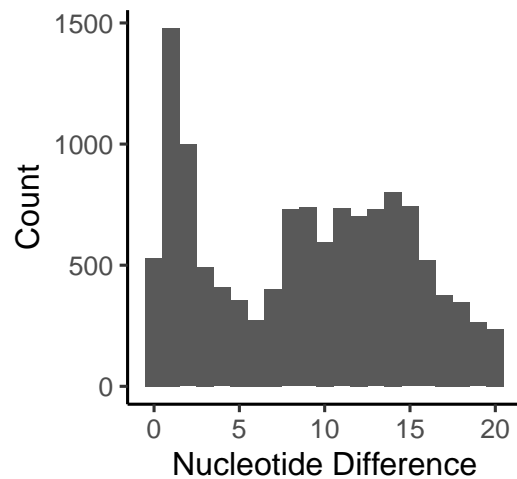
IGHV7-4-1*02

6097 sequences assigned
43 (0.7%) exact matches, in which:
32 unique CDR3
6 unique J

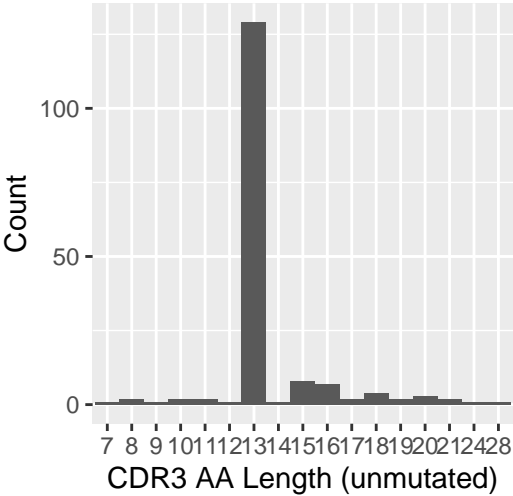


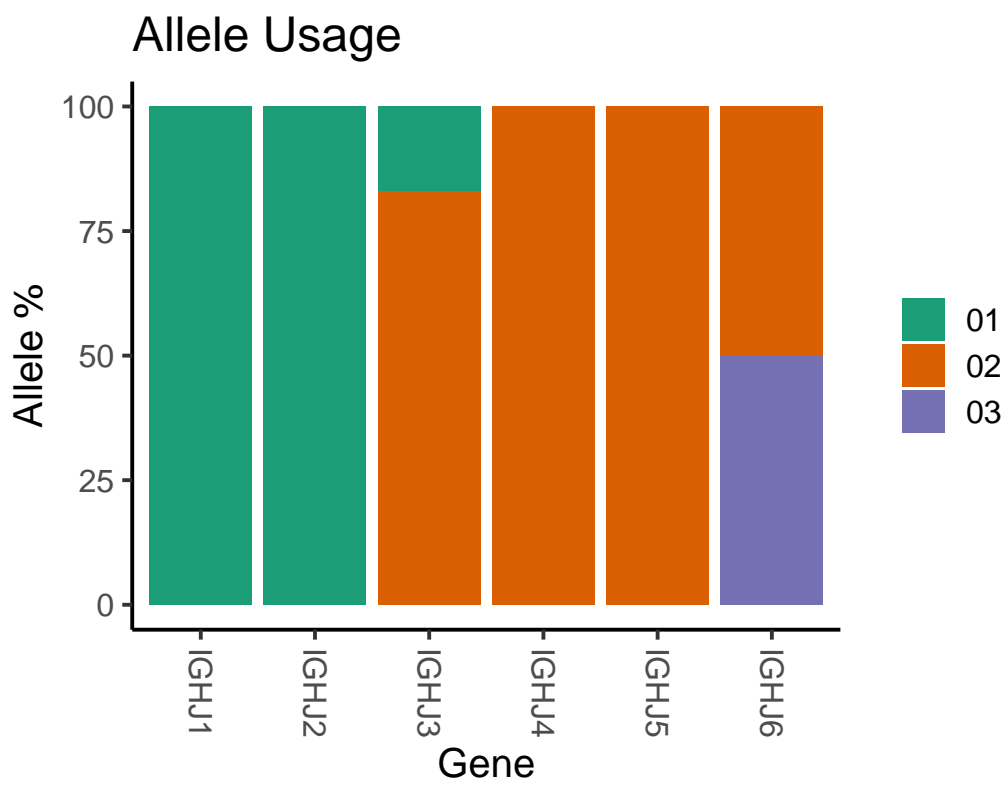
IGHV5-51*01_03

14001 sequences assigned
529 (3.8%) exact matches, in which:
325 unique CDR3
6 unique J



IGHV1-18*01_G107A_G119A_T167A_C173G_G210A_G254A





Sequence Count by IGHJ6 allele usage

