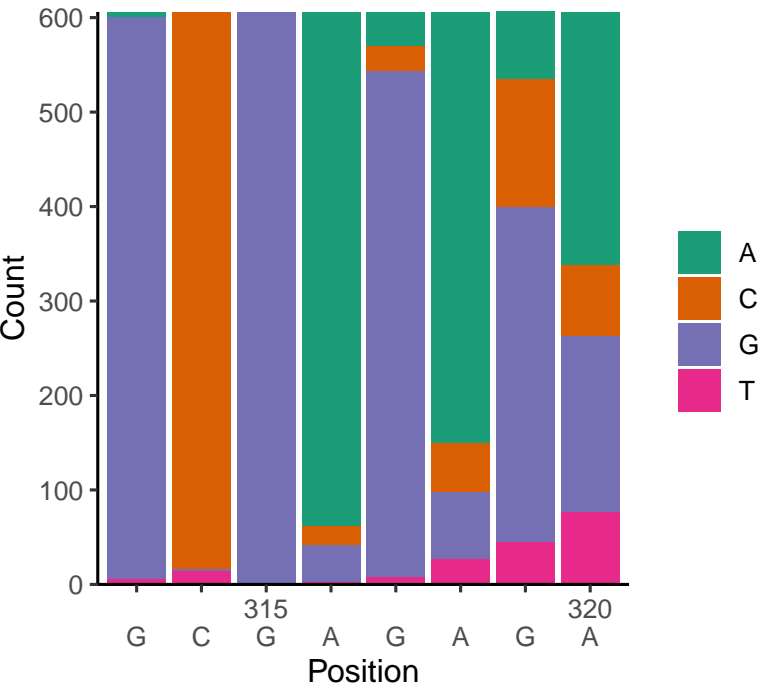


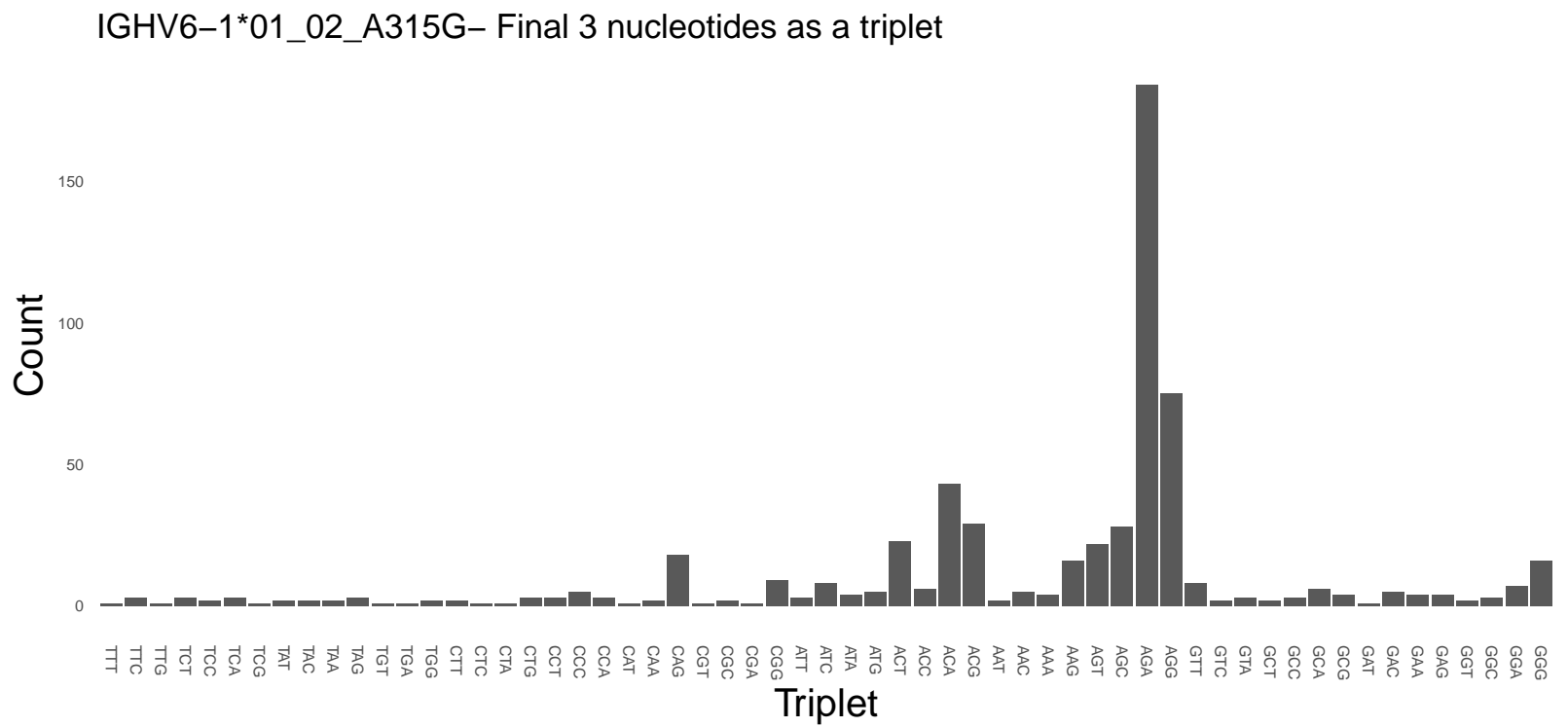
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

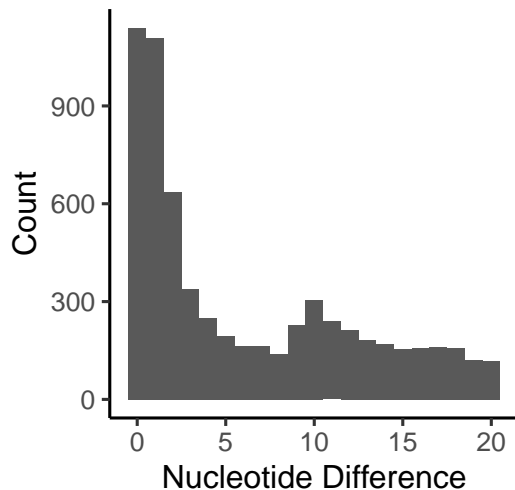


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



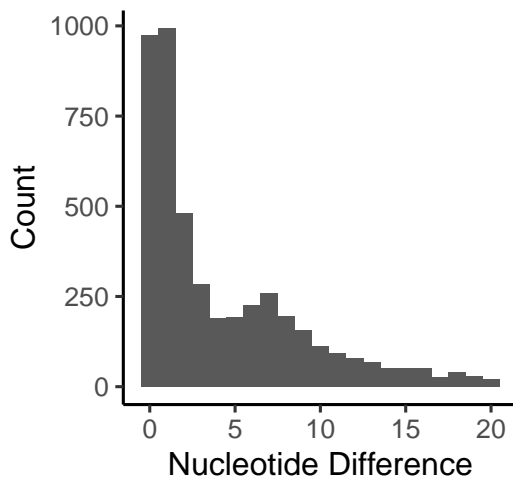
IGHV1-2*02

7114 sequences assigned
1140 (16%) exact matches, in which:
916 unique CDR3
6 unique J



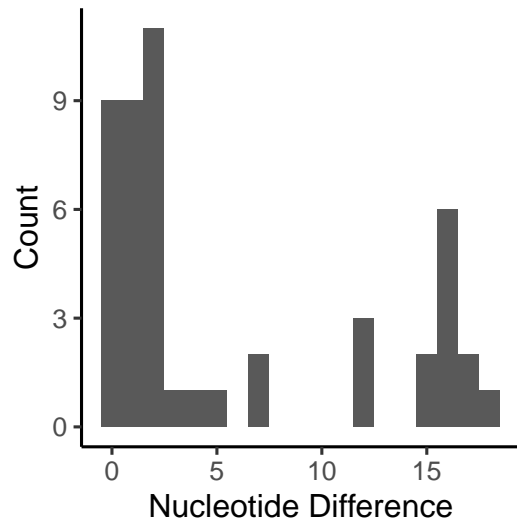
IGHV1-8*01

4914 sequences assigned
975 (19.8%) exact matches, in which:
780 unique CDR3
6 unique J



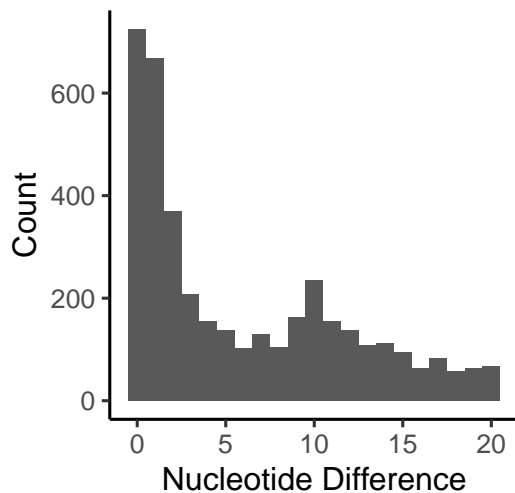
IGHV1-45*02

53 sequences assigned
9 (17%) exact matches, in which:
9 unique CDR3
3 unique J



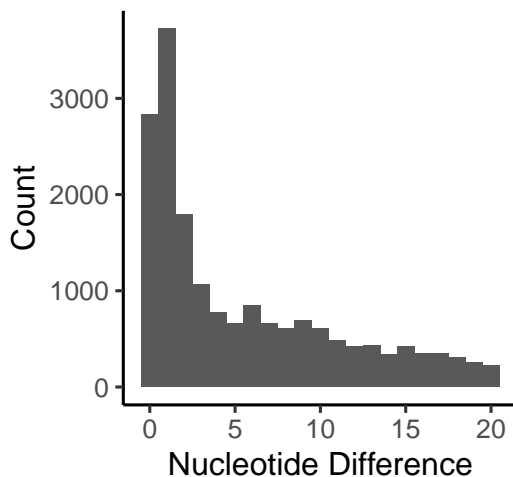
IGHV1-2*06

4474 sequences assigned
725 (16.2%) exact matches, in which:
608 unique CDR3
6 unique J



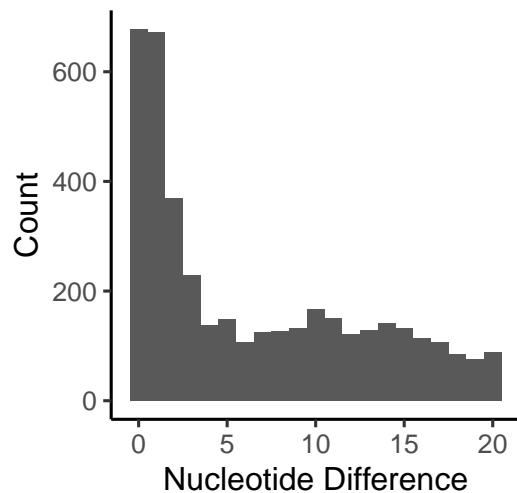
IGHV1-18*01

19381 sequences assigned
2831 (14.6%) exact matches, in which:
2132 unique CDR3
6 unique J



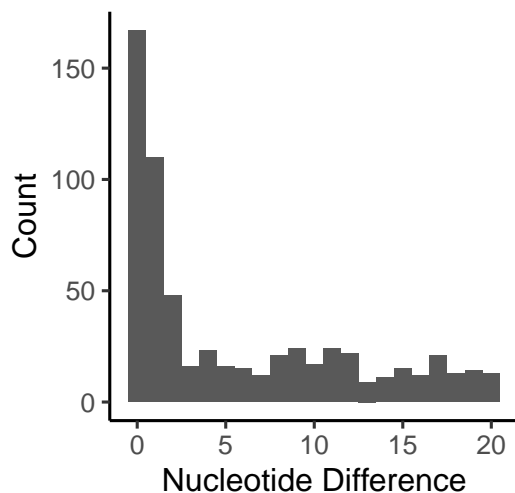
IGHV1-46*01

4910 sequences assigned
678 (13.8%) exact matches, in which:
561 unique CDR3
6 unique J



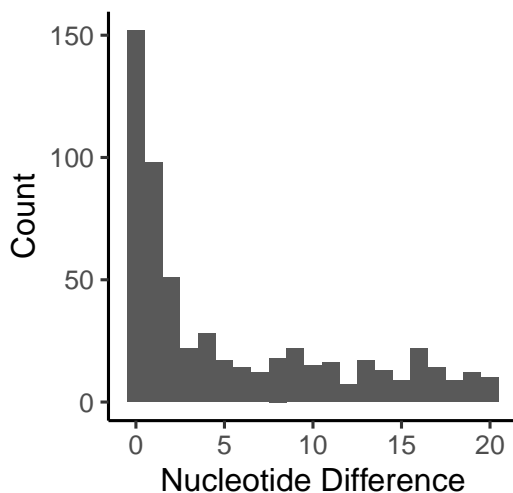
IGHV1-3*01_05

737 sequences assigned
167 (22.7%) exact matches, in which:
139 unique CDR3
6 unique J



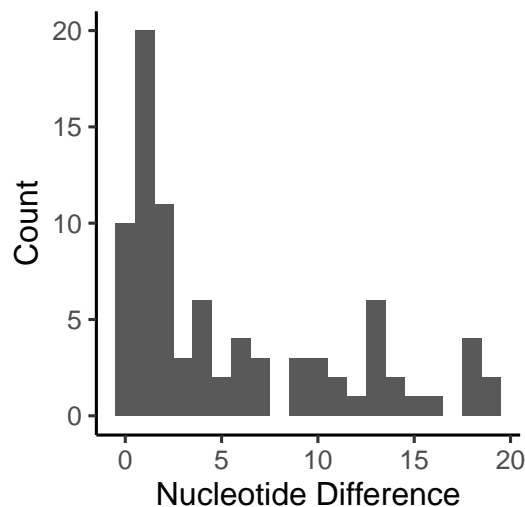
IGHV1-24*01

651 sequences assigned
152 (23.3%) exact matches, in which:
138 unique CDR3
6 unique J



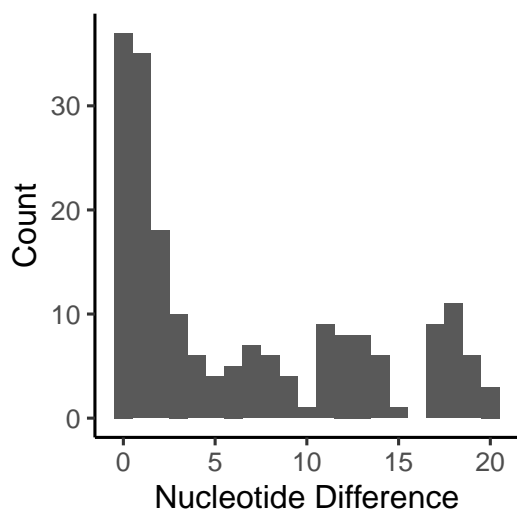
IGHV1-58*02

93 sequences assigned
10 (10.8%) exact matches, in which:
9 unique CDR3
3 unique J



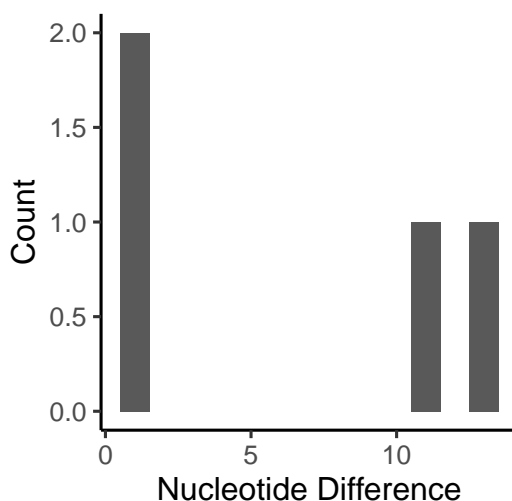
IGHV1-58*01_03

208 sequences assigned
37 (17.8%) exact matches, in which:
32 unique CDR3
6 unique J



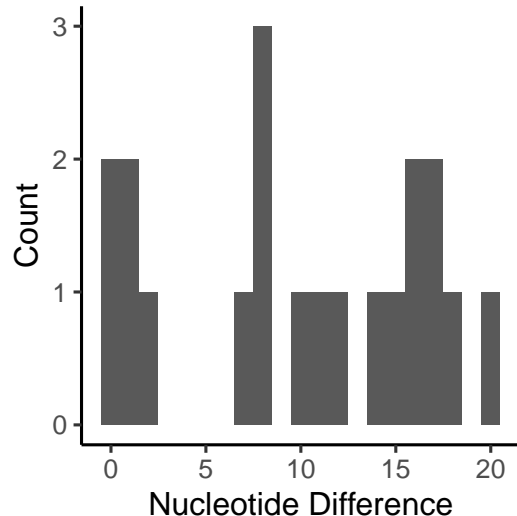
IGHV2-26*01

4 sequences assigned
No exact matches.



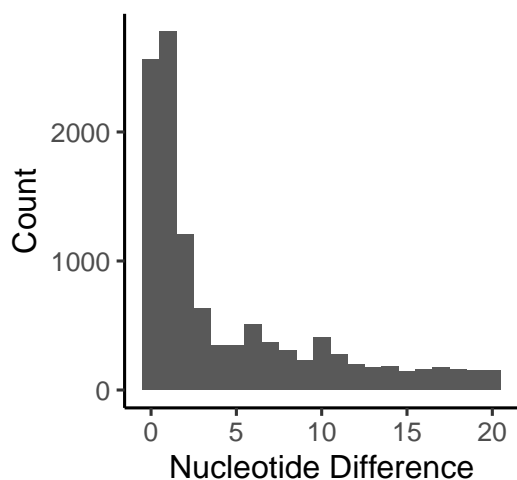
IGHV2-70*11_15

27 sequences assigned
2 (7.4%) exact matches, in which:
2 unique CDR3
1 unique J



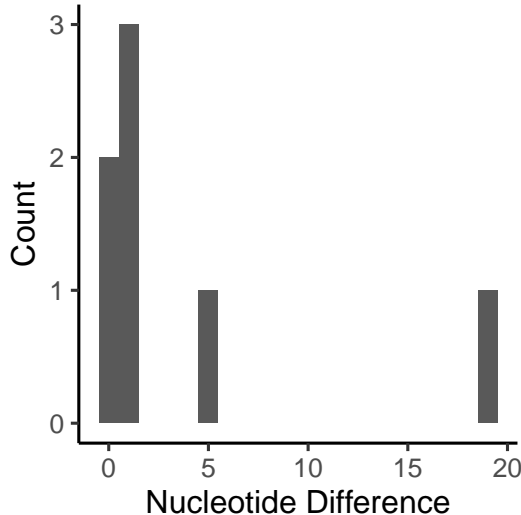
IGHV1-69*01_12_13

12638 sequences assigned
2562 (20.3%) exact matches, in which:
2015 unique CDR3
6 unique J



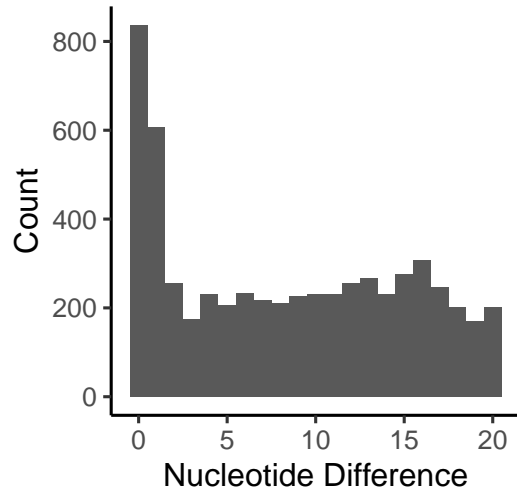
IGHV2-26*02

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
1 unique J



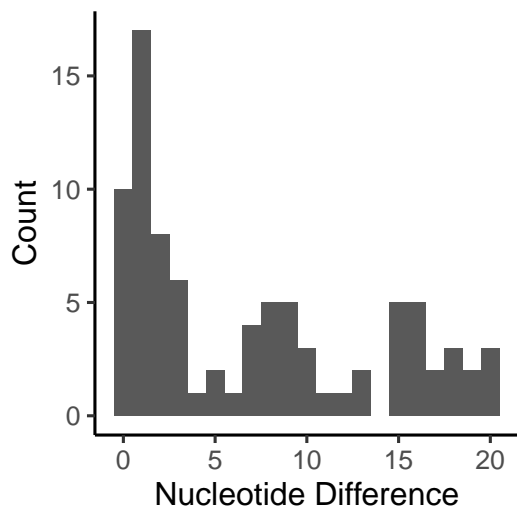
IGHV3-7*01

6644 sequences assigned
837 (12.6%) exact matches, in which:
662 unique CDR3
6 unique J



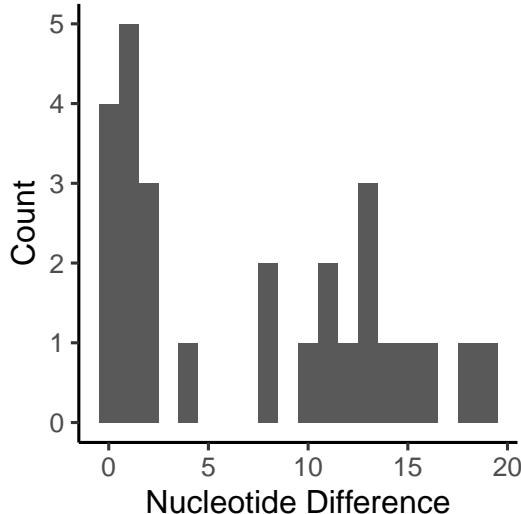
IGHV2-5*01

99 sequences assigned
10 (10.1%) exact matches, in which:
10 unique CDR3
3 unique J



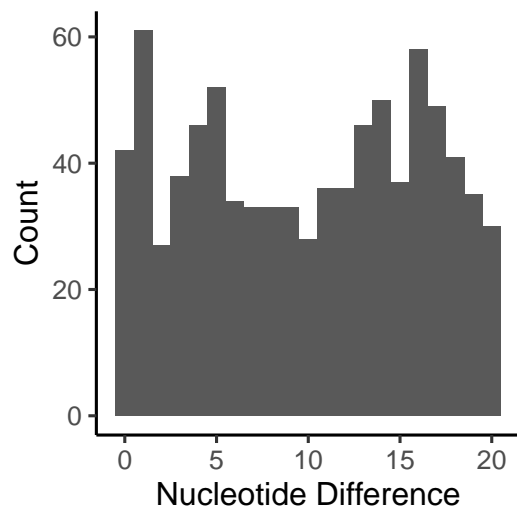
IGHV2-70*01

31 sequences assigned
4 (12.9%) exact matches, in which:
4 unique CDR3
3 unique J



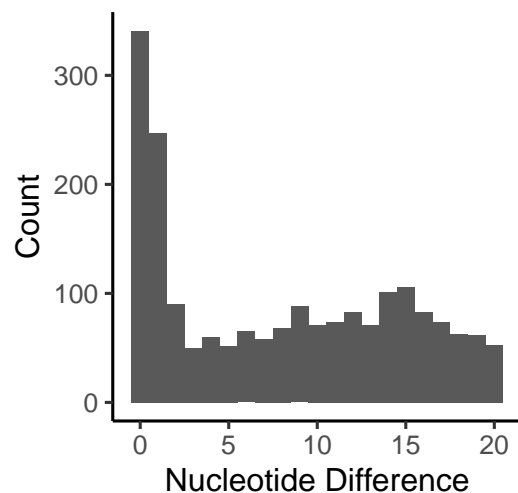
IGHV3-7*03

1025 sequences assigned
42 (4.1%) exact matches, in which:
42 unique CDR3
5 unique J



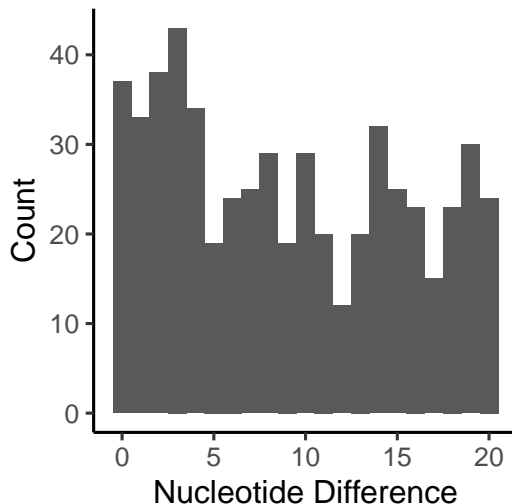
IGHV3-7*05

2257 sequences assigned
341 (15.1%) exact matches, in which:
265 unique CDR3
6 unique J



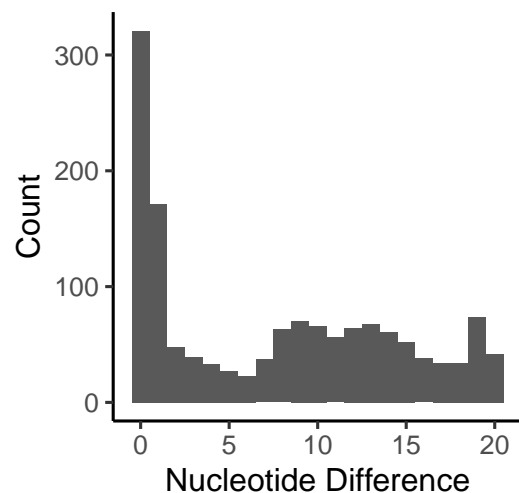
IGHV3-11*04

660 sequences assigned
37 (5.6%) exact matches, in which:
37 unique CDR3
6 unique J



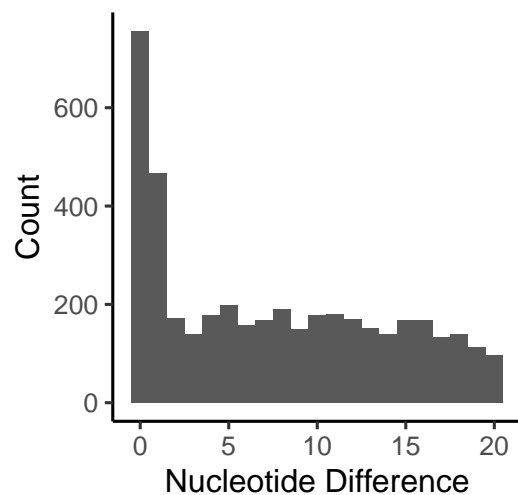
IGHV3-15*07

1749 sequences assigned
321 (18.4%) exact matches, in which:
287 unique CDR3
6 unique J



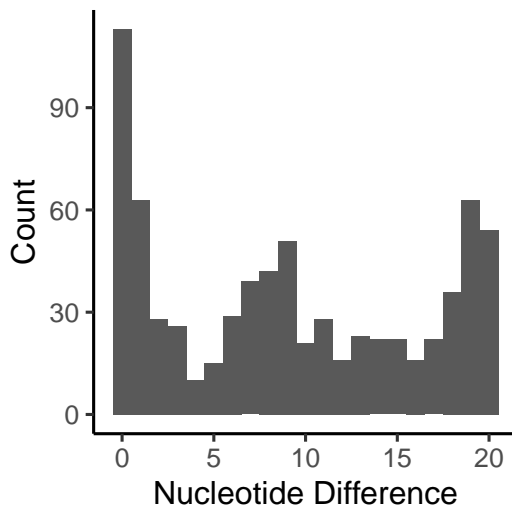
IGHV3-9*01

5074 sequences assigned
756 (14.9%) exact matches, in which:
599 unique CDR3
6 unique J



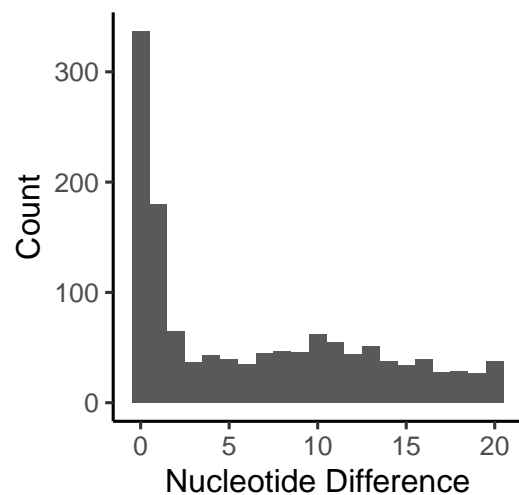
IGHV3-11*06

951 sequences assigned
113 (11.9%) exact matches, in which:
90 unique CDR3
6 unique J



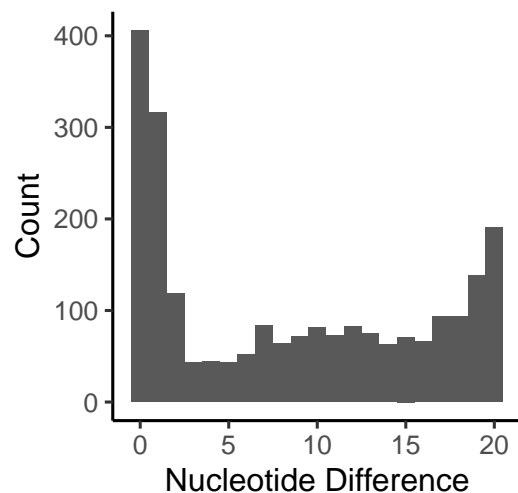
IGHV3-15*01_02

1482 sequences assigned
337 (22.7%) exact matches, in which:
287 unique CDR3
6 unique J



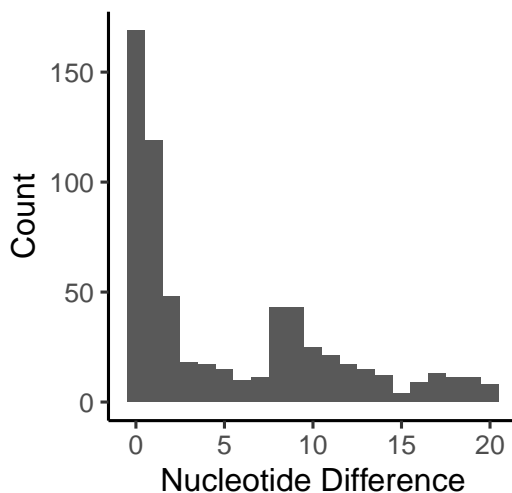
IGHV3-11*01

2747 sequences assigned
406 (14.8%) exact matches, in which:
338 unique CDR3
6 unique J



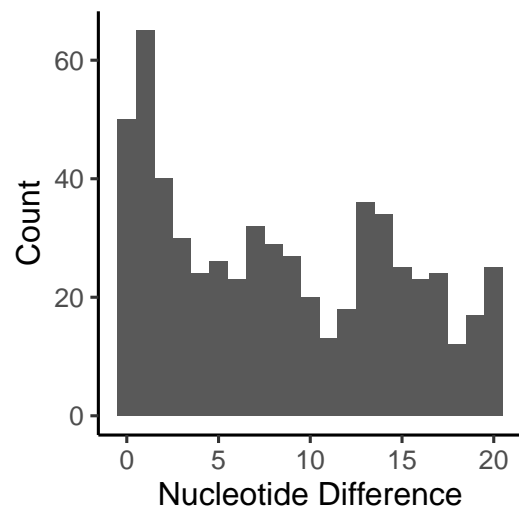
IGHV3-13*01

673 sequences assigned
169 (25.1%) exact matches, in which:
114 unique CDR3
5 unique J



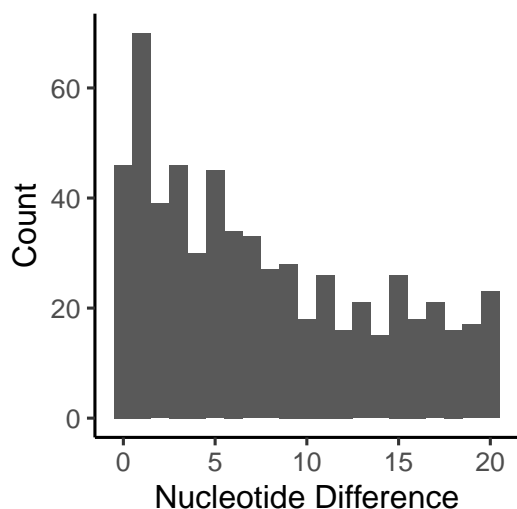
IGHV3-20*03_04

941 sequences assigned
50 (5.3%) exact matches, in which:
42 unique CDR3
6 unique J



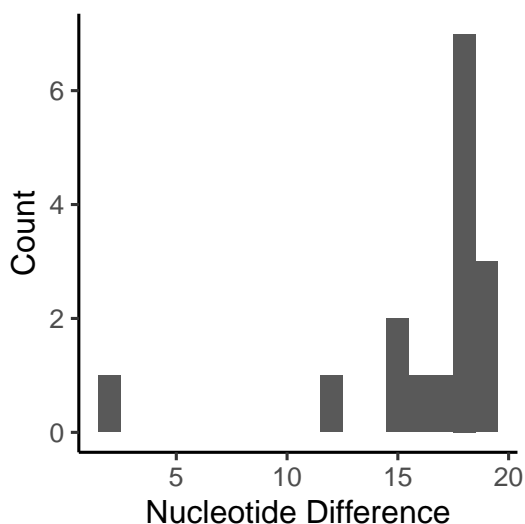
IGHV3-21*04

749 sequences assigned
46 (6.1%) exact matches, in which:
43 unique CDR3
5 unique J



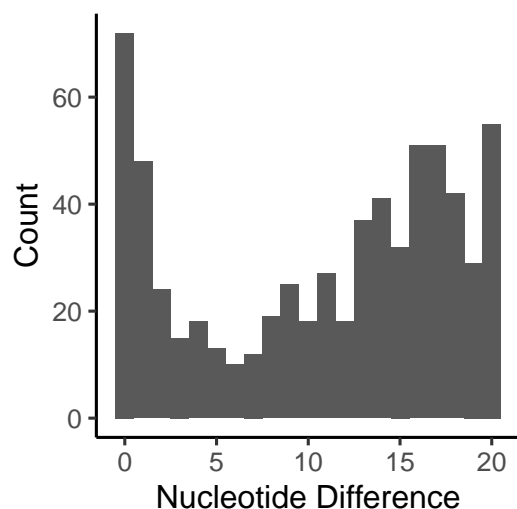
IGHV3-30-3*01

36 sequences assigned
No exact matches.



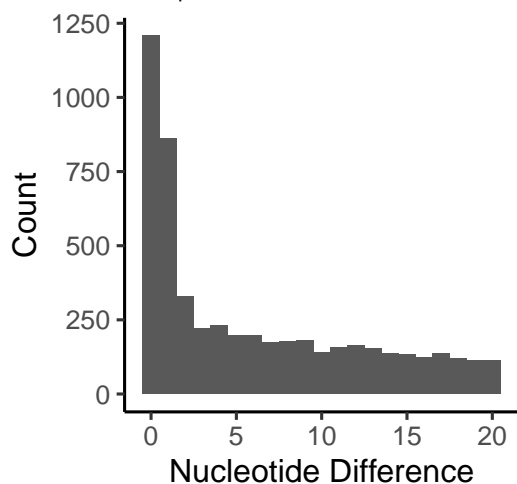
IGHV3-30*03

862 sequences assigned
72 (8.4%) exact matches, in which:
72 unique CDR3
6 unique J



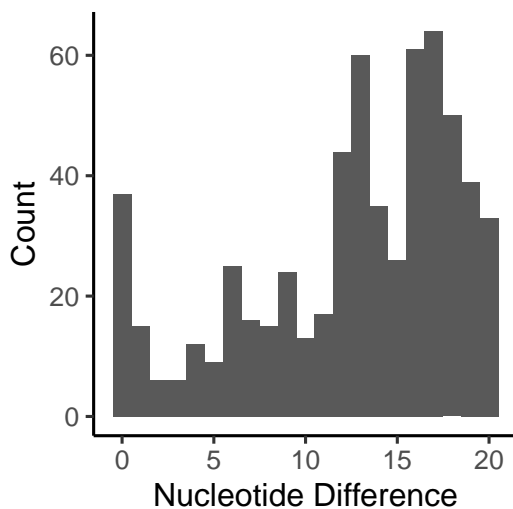
IGHV3-21*01_02

6255 sequences assigned
1208 (19.3%) exact matches, in which:
980 unique CDR3
6 unique J



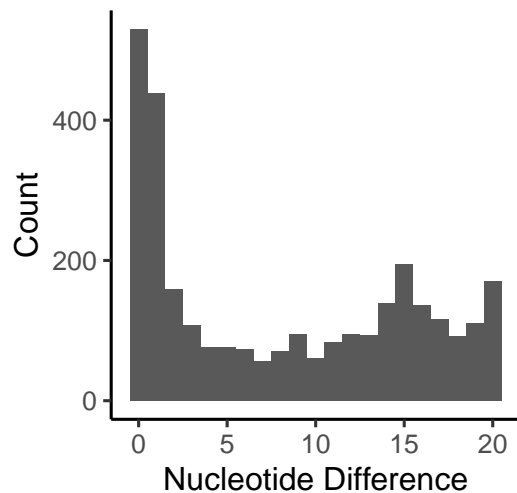
IGHV3-30*02

1251 sequences assigned
37 (3%) exact matches, in which:
36 unique CDR3
4 unique J



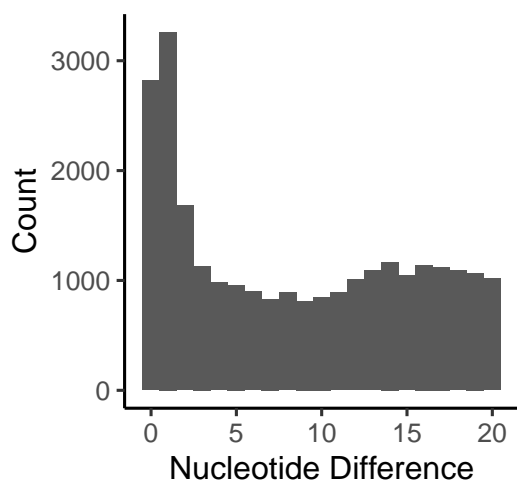
IGHV3-30*18

3573 sequences assigned
530 (14.8%) exact matches, in which:
429 unique CDR3
6 unique J



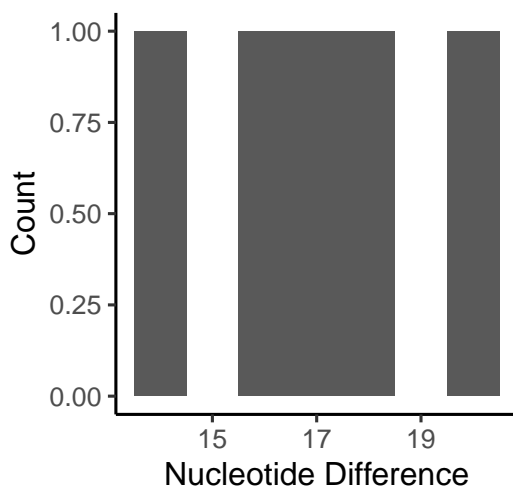
IGHV3-23*01_04

33538 sequences assigned
2821 (8.4%) exact matches, in which:
2223 unique CDR3
6 unique J



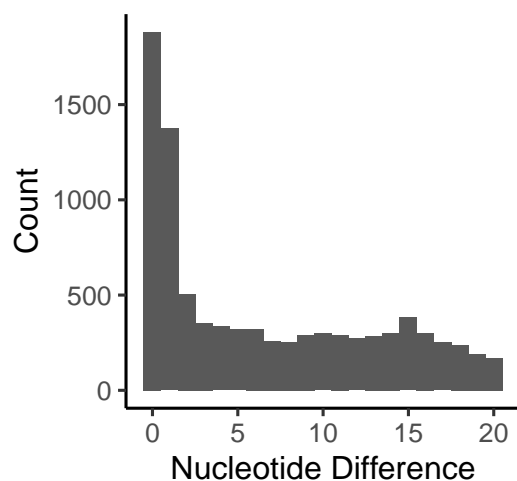
IGHV3-30-3*02

20 sequences assigned
No exact matches.



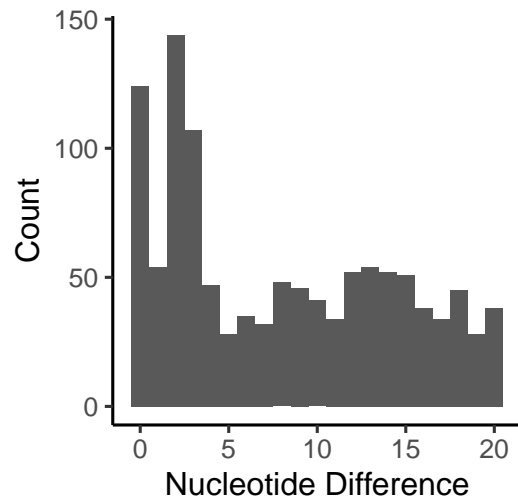
IGHV3-33*01

9918 sequences assigned
1881 (19%) exact matches, in which:
1360 unique CDR3
6 unique J



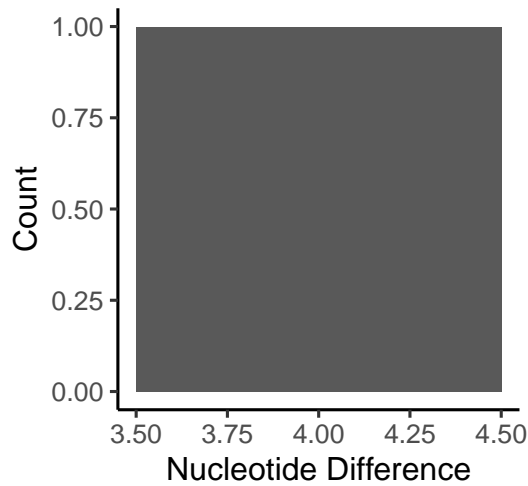
IGHV3-33*06

1312 sequences assigned
124 (9.5%) exact matches, in which:
119 unique CDR3
6 unique J



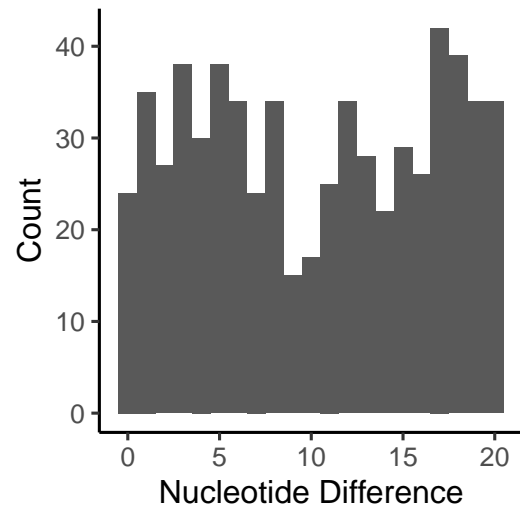
IGHV3-47*02

1 sequences assigned
No exact matches.



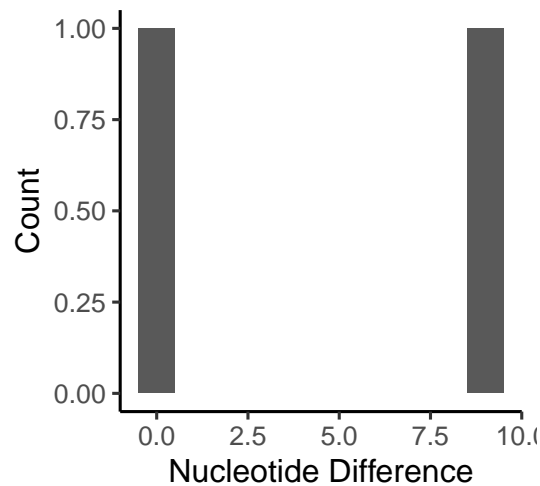
IGHV3-48*04

879 sequences assigned
24 (2.7%) exact matches, in which:
24 unique CDR3
6 unique J



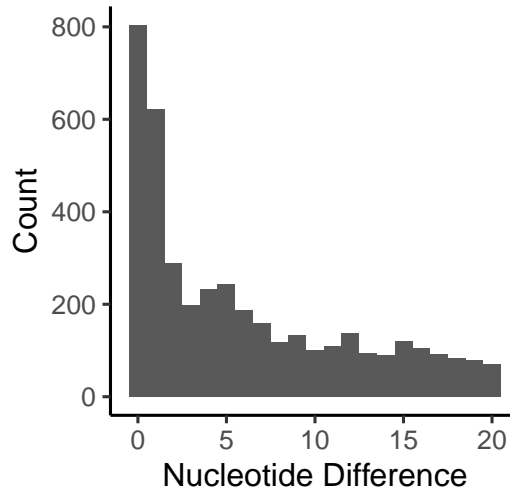
IGHV3-35*01

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



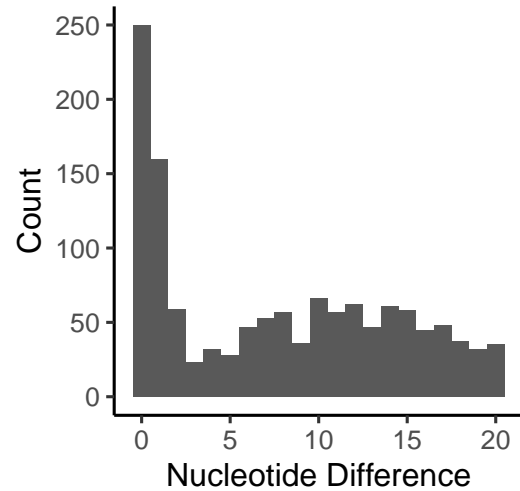
IGHV3-48*01

4569 sequences assigned
804 (17.6%) exact matches, in which:
668 unique CDR3
6 unique J



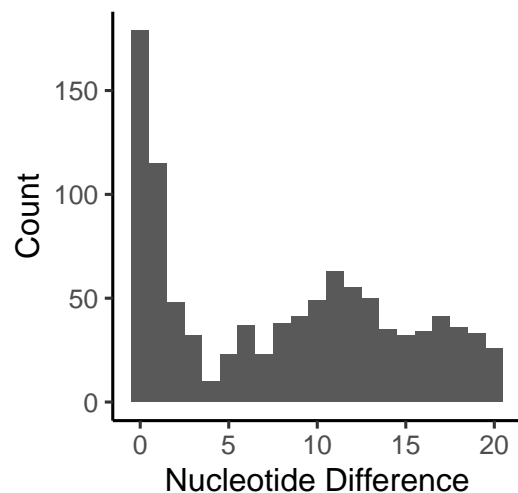
IGHV3-49*04

1536 sequences assigned
250 (16.3%) exact matches, in which:
210 unique CDR3
6 unique J



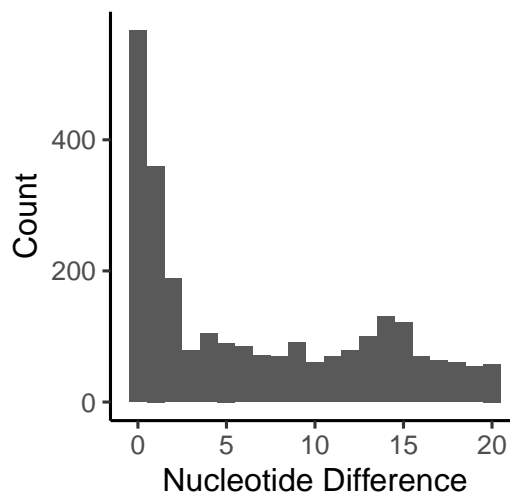
IGHV3-43*01

1174 sequences assigned
179 (15.2%) exact matches, in which:
140 unique CDR3
6 unique J



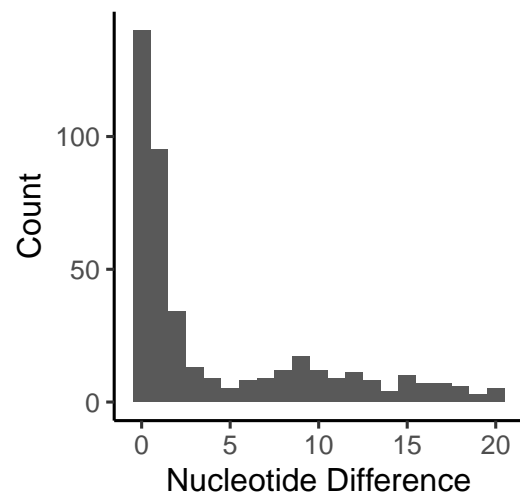
IGHV3-48*02

3028 sequences assigned
567 (18.7%) exact matches, in which:
442 unique CDR3
6 unique J



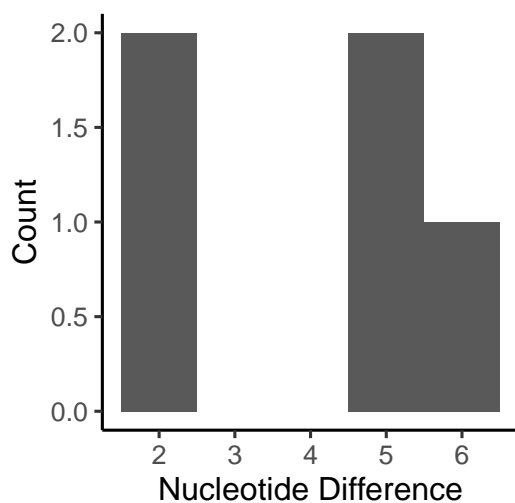
IGHV3-49*03_05

489 sequences assigned
140 (28.6%) exact matches, in which:
121 unique CDR3
5 unique J



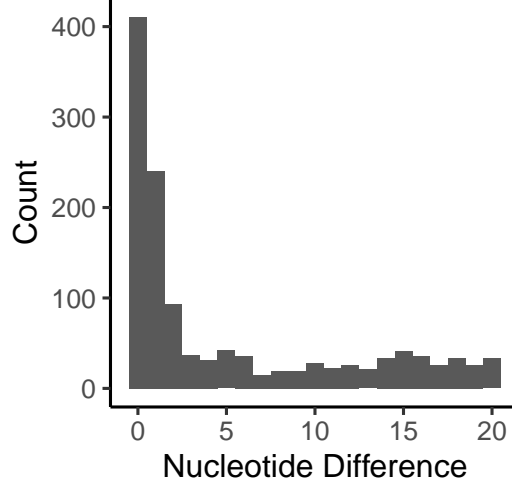
IGHV3-52*02

6 sequences assigned
No exact matches.



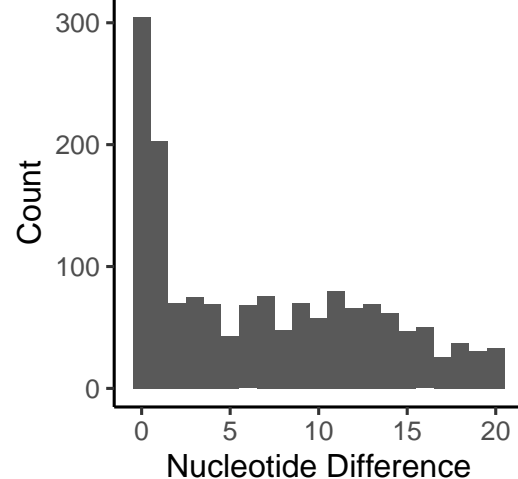
IGHV3-53*01_02

1449 sequences assigned
411 (28.4%) exact matches, in which:
329 unique CDR3
6 unique J



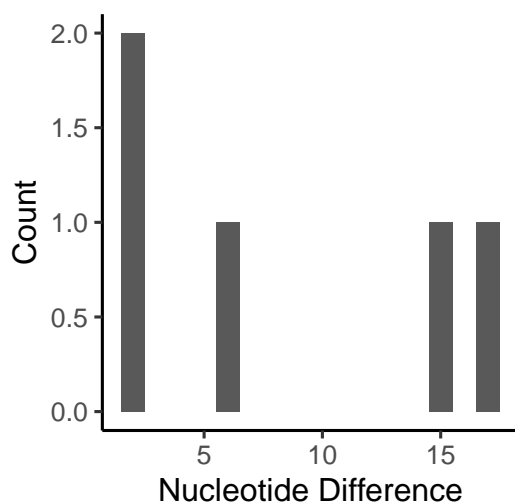
IGHV3-66*02

1874 sequences assigned
305 (16.3%) exact matches, in which:
236 unique CDR3
6 unique J



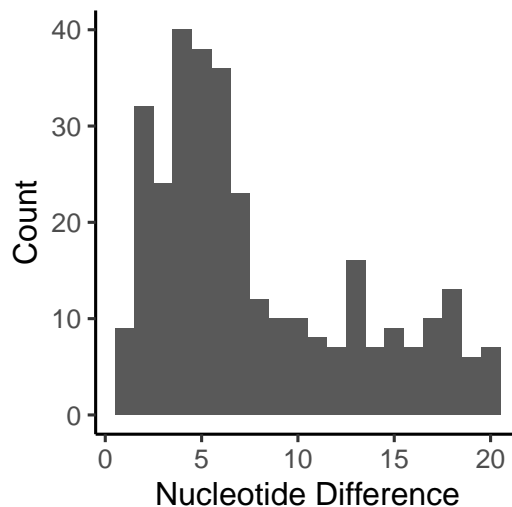
IGHV3-52*01_03

5 sequences assigned
No exact matches.



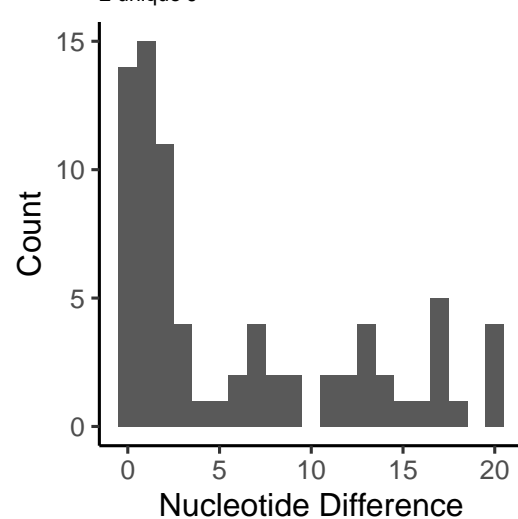
IGHV3-64*04

393 sequences assigned
No exact matches.



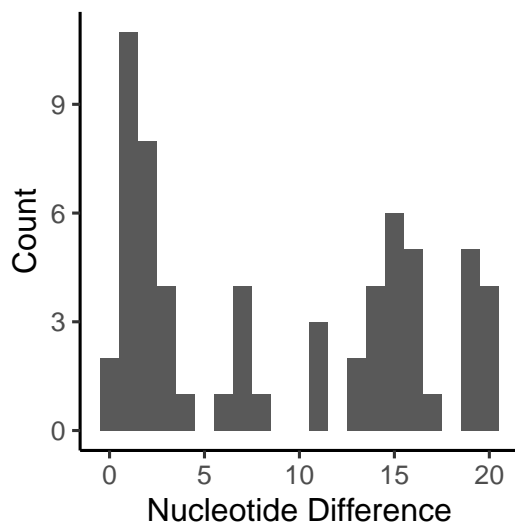
IGHV3-66*03

147 sequences assigned
14 (9.5%) exact matches, in which:
13 unique CDR3
2 unique J



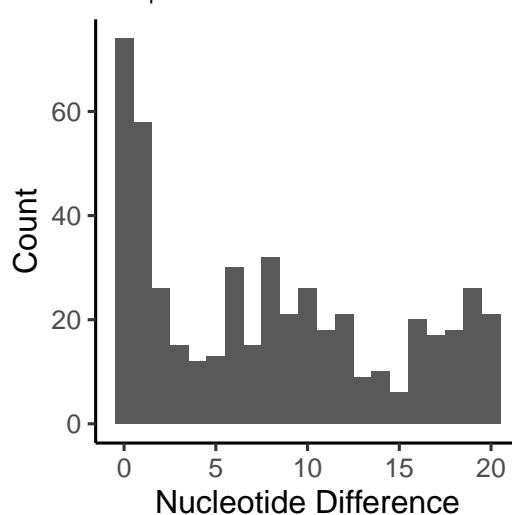
IGHV3-53*05

76 sequences assigned
2 (2.6%) exact matches, in which:
2 unique CDR3
1 unique J



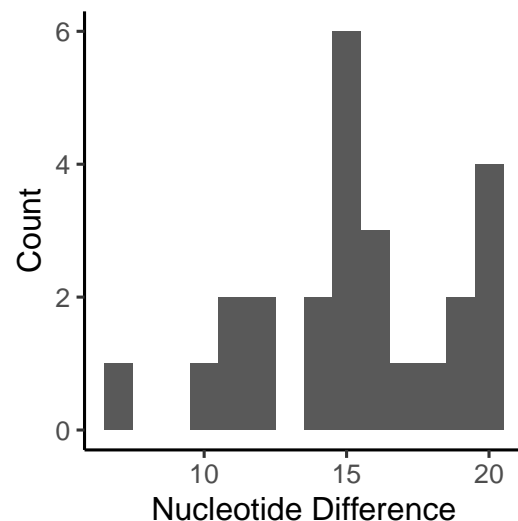
IGHV3-64*02_07

622 sequences assigned
74 (11.9%) exact matches, in which:
56 unique CDR3
6 unique J



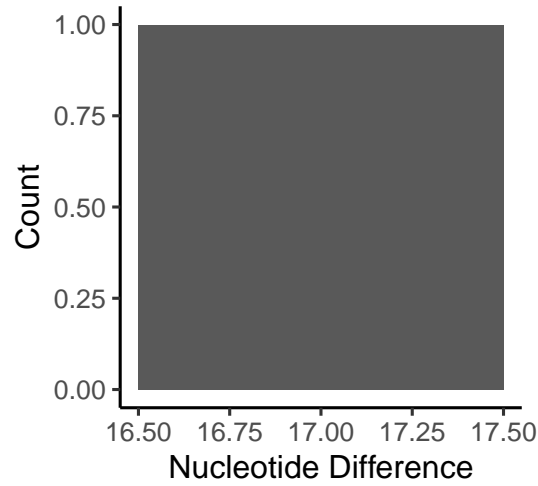
IGHV3-69-1*01

75 sequences assigned
No exact matches.



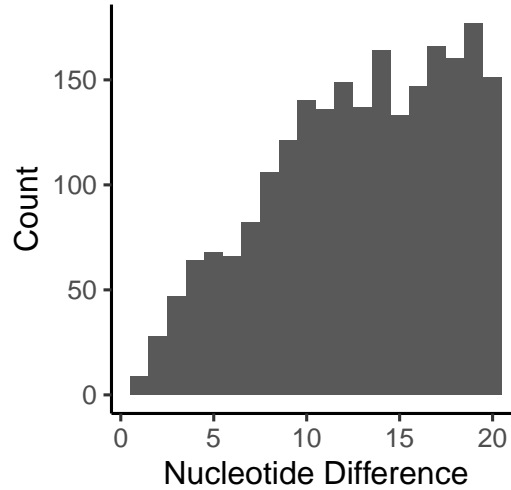
IGHV3-71*03

1 sequences assigned
No exact matches.



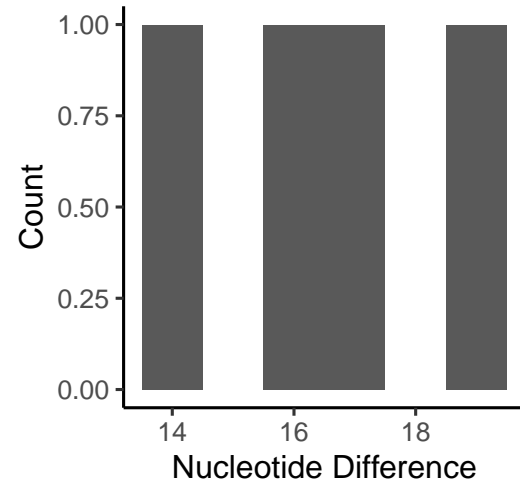
IGHV3-74*03

3636 sequences assigned
No exact matches.



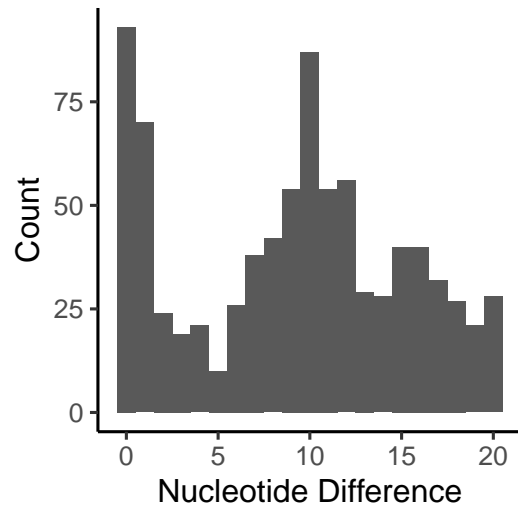
IGHV3-64D*06

4 sequences assigned
No exact matches.



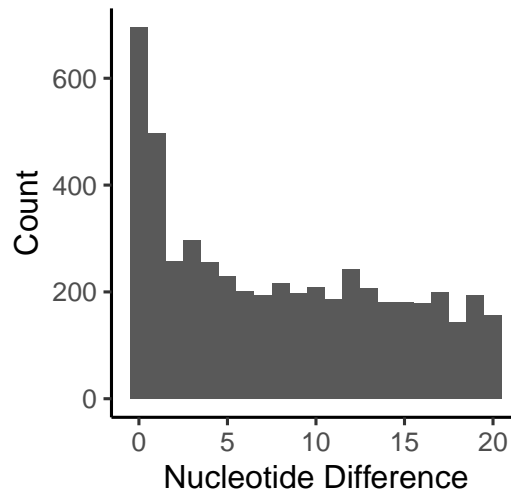
IGHV3-72*01

968 sequences assigned
93 (9.6%) exact matches, in which:
77 unique CDR3
6 unique J



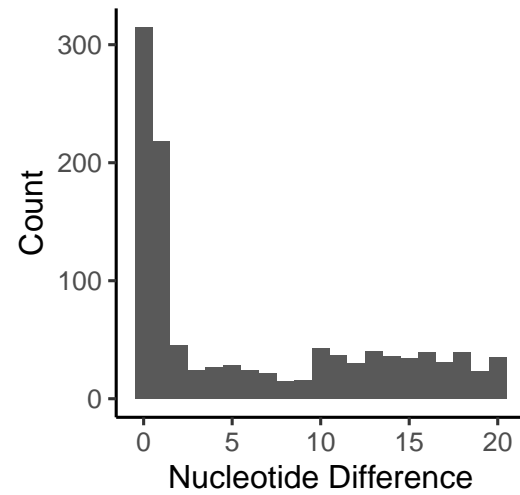
IGHV3-74*01_02

5816 sequences assigned
696 (12%) exact matches, in which:
554 unique CDR3
6 unique J



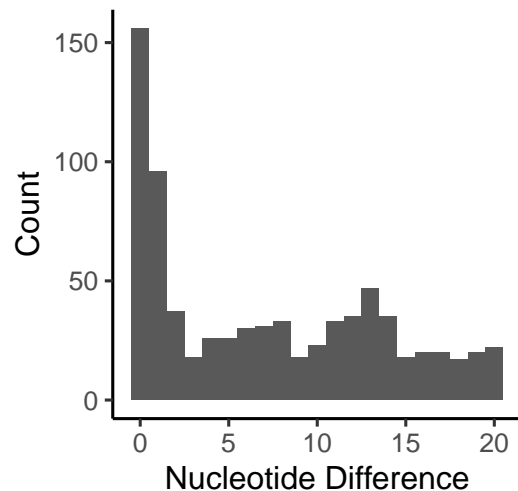
IGHV3-64D*08

1300 sequences assigned
315 (24.2%) exact matches, in which:
201 unique CDR3
6 unique J



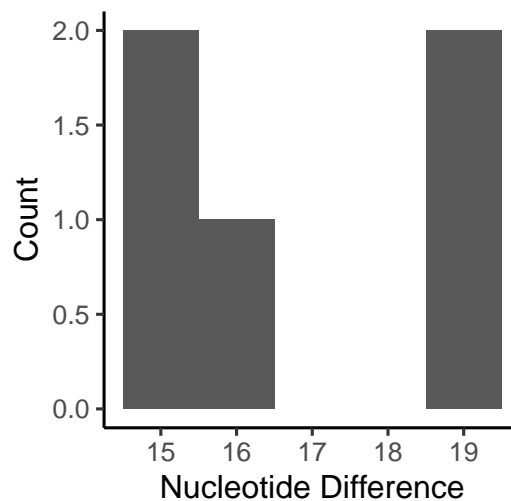
IGHV3-73*01_02

930 sequences assigned
156 (16.8%) exact matches, in which:
141 unique CDR3
6 unique J



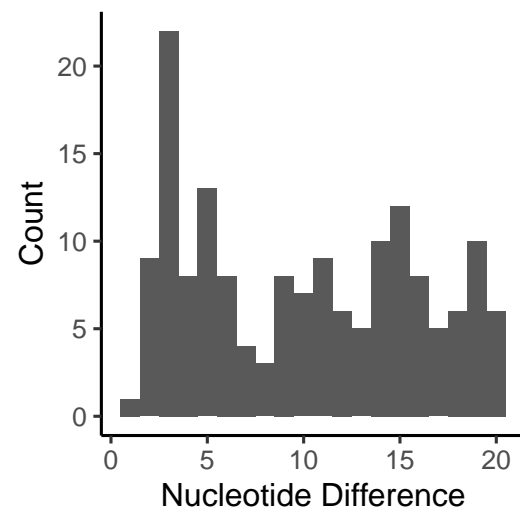
IGHV3-43D*04

14 sequences assigned
No exact matches.



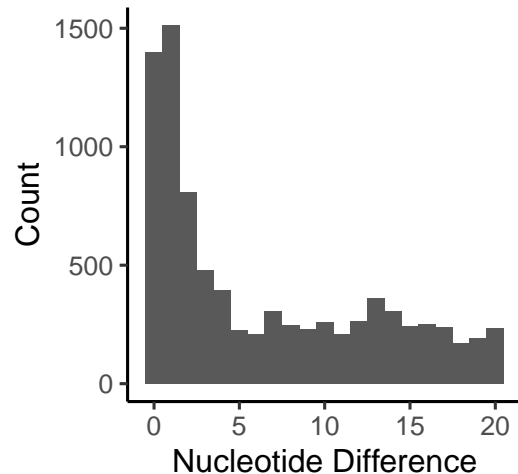
IGHV3-NL1*01

234 sequences assigned
No exact matches.



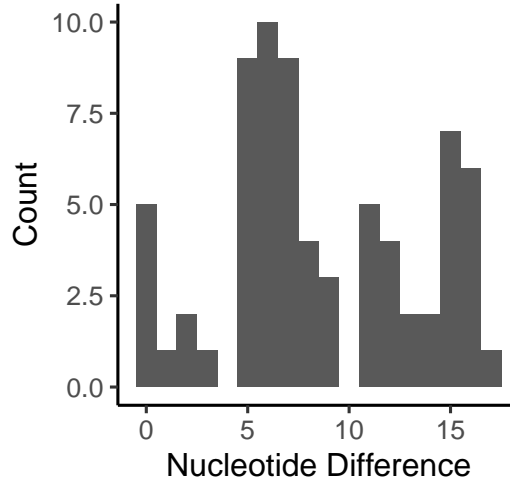
IGHV4-4*07

10622 sequences assigned
1398 (13.2%) exact matches, in which:
985 unique CDR3
6 unique J



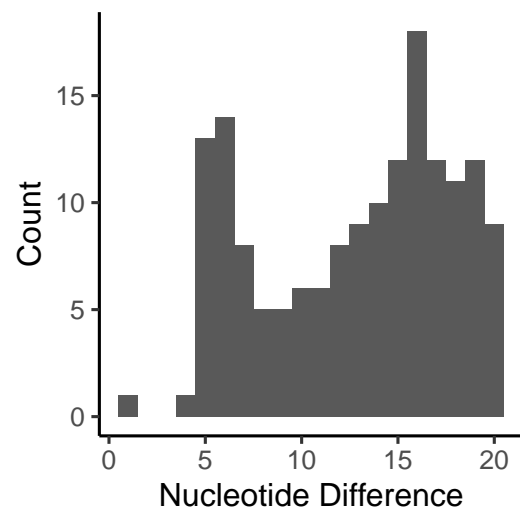
IGHV4-28*06

73 sequences assigned
5 (6.8%) exact matches, in which:
3 unique CDR3
3 unique J



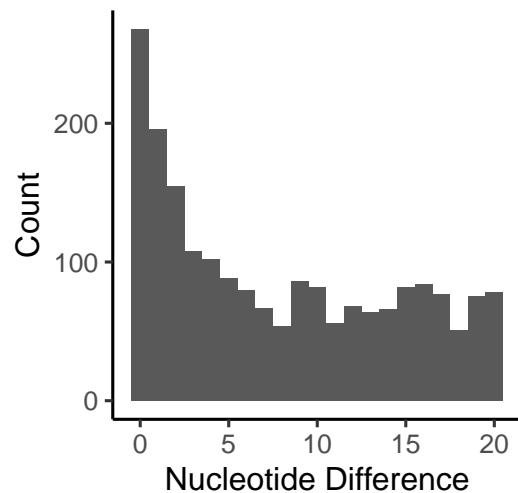
IGHV4-30-2*03

285 sequences assigned
No exact matches.



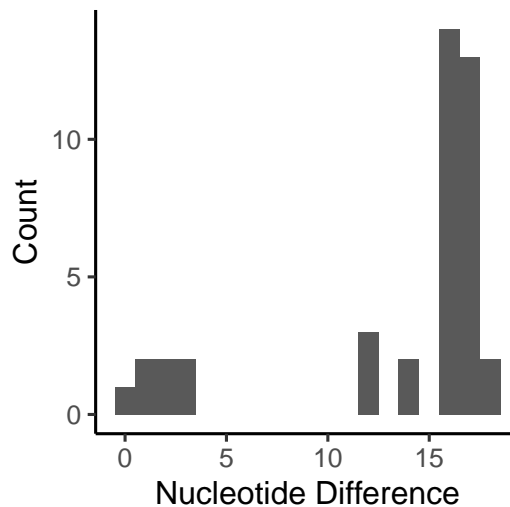
IGHV4-4*02_03

2582 sequences assigned
268 (10.4%) exact matches, in which:
188 unique CDR3
6 unique J



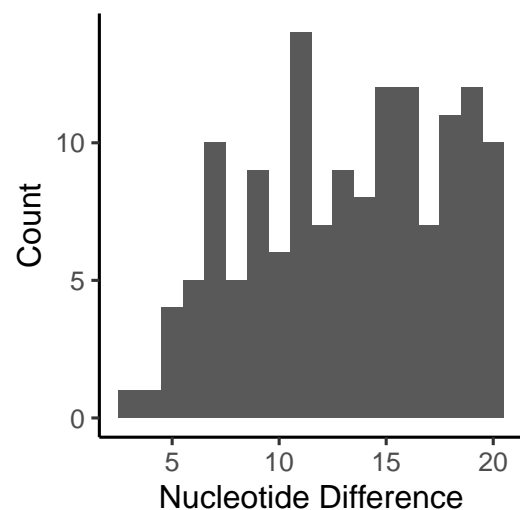
IGHV4-28*01_07

42 sequences assigned
1 (2.4%) exact matches, in which:
1 unique CDR3
1 unique J



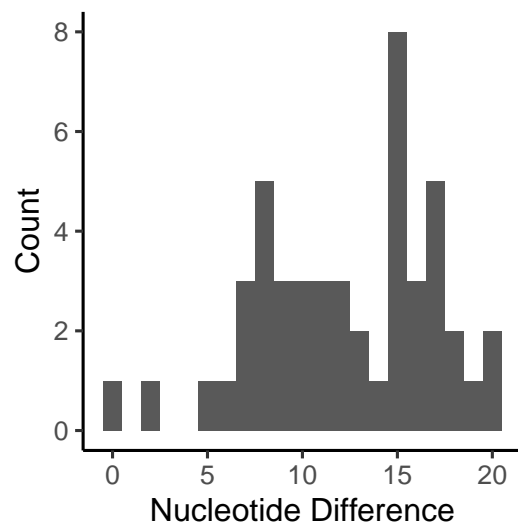
IGHV4-30-4*08

211 sequences assigned
No exact matches.



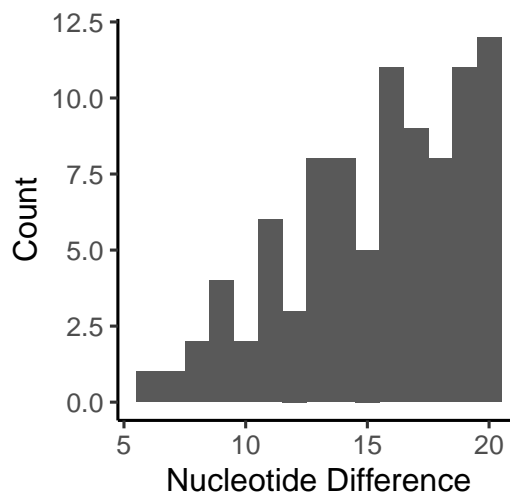
IGHV4-28*03

53 sequences assigned
1 (1.9%) exact matches, in which:
1 unique CDR3
0 unique J



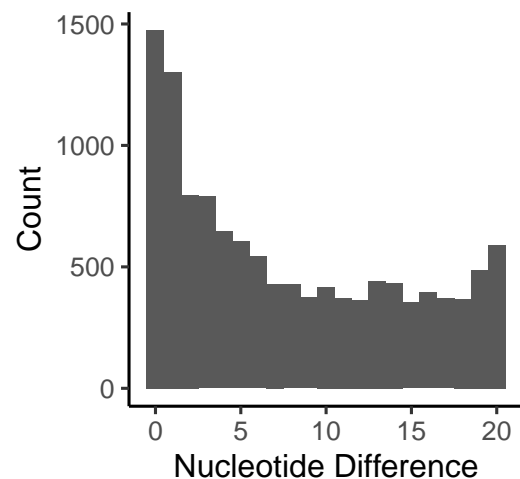
IGHV4-30-4*01

201 sequences assigned
No exact matches.



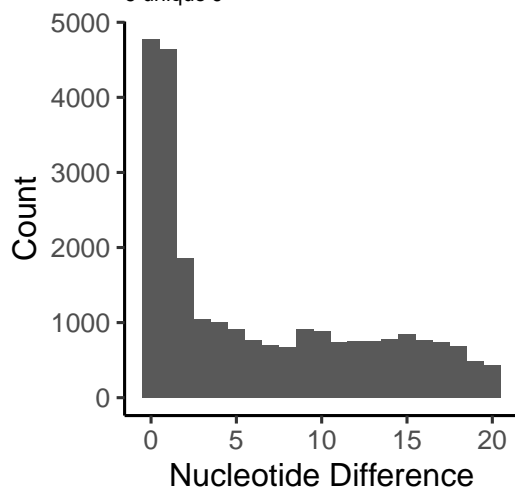
IGHV4-31*02

16341 sequences assigned
1475 (9%) exact matches, in which:
1049 unique CDR3
6 unique J



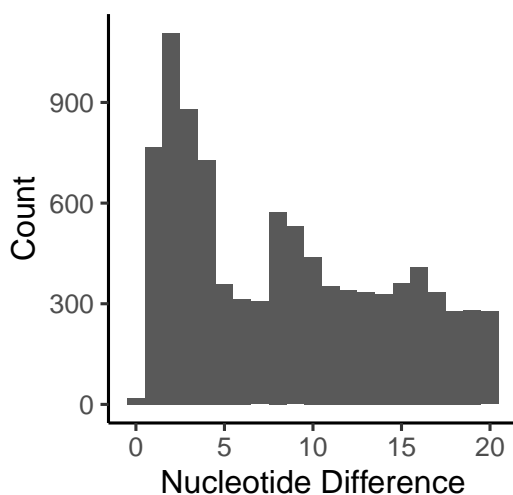
IGHV4-34*01_02

28718 sequences assigned
4772 (16.6%) exact matches, in which:
3186 unique CDR3
6 unique J



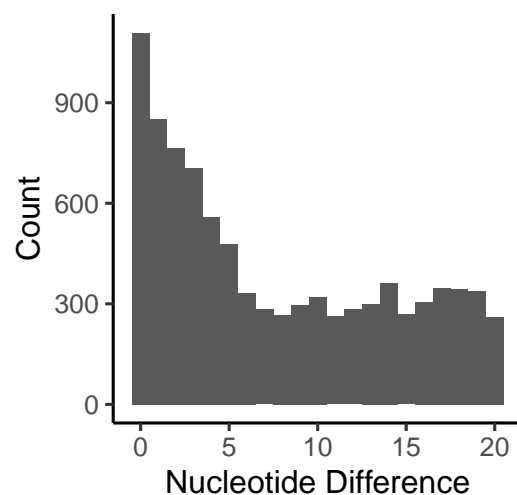
IGHV4-39*07

11364 sequences assigned
20 (0.2%) exact matches, in which:
20 unique CDR3
5 unique J



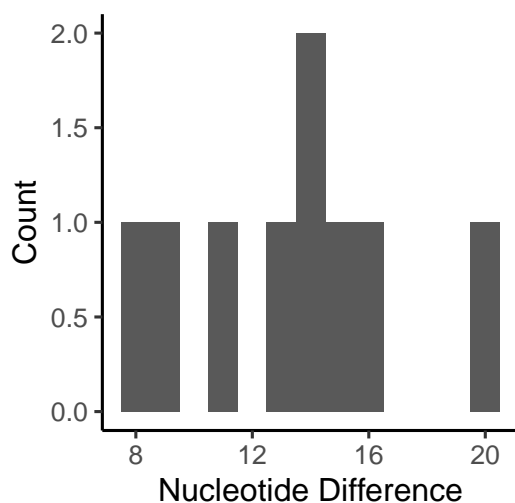
IGHV4-61*01

10851 sequences assigned
1109 (10.2%) exact matches, in which:
859 unique CDR3
6 unique J



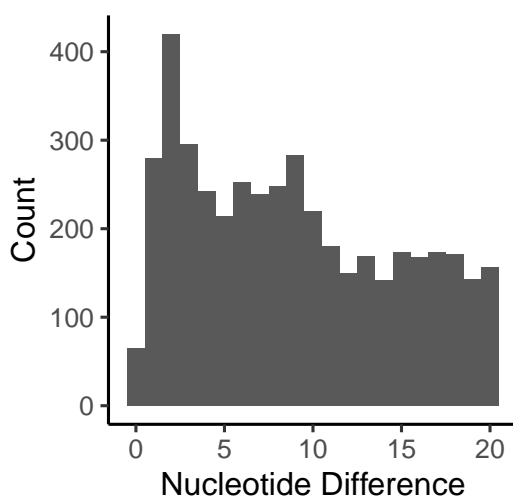
IGHV4-38-2*01

15 sequences assigned
No exact matches.



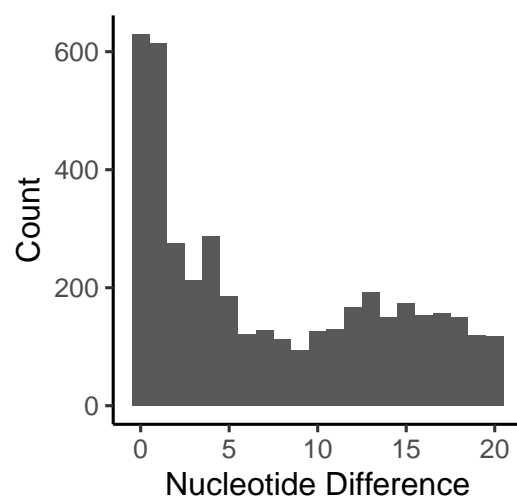
IGHV4-59*08

5608 sequences assigned
65 (1.2%) exact matches, in which:
62 unique CDR3
6 unique J



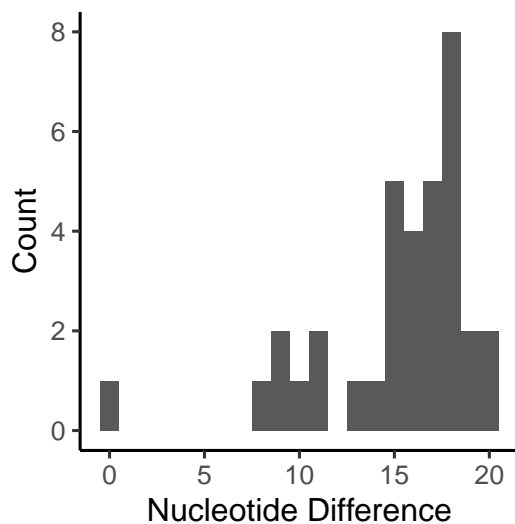
IGHV4-61*09

5451 sequences assigned
630 (11.6%) exact matches, in which:
452 unique CDR3
6 unique J



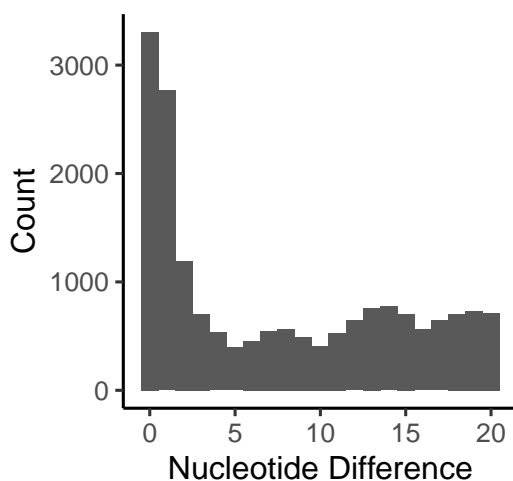
IGHV4-38-2*02

74 sequences assigned
1 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



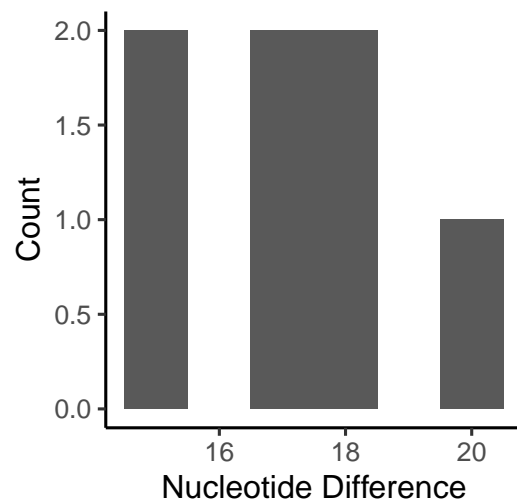
IGHV4-59*11

22089 sequences assigned
3305 (15%) exact matches, in which:
2335 unique CDR3
6 unique J



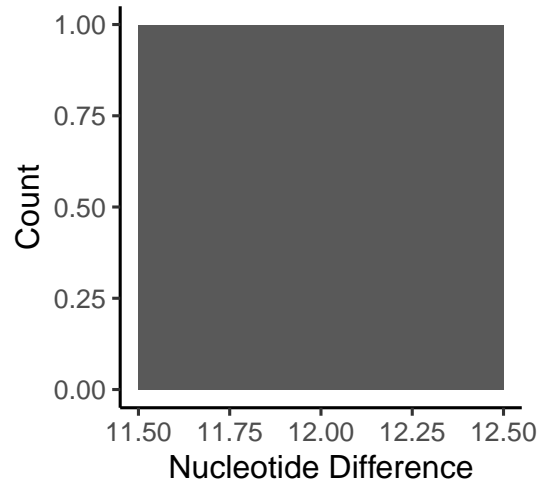
IGHV1/OR15-2*02_03

11 sequences assigned
No exact matches.



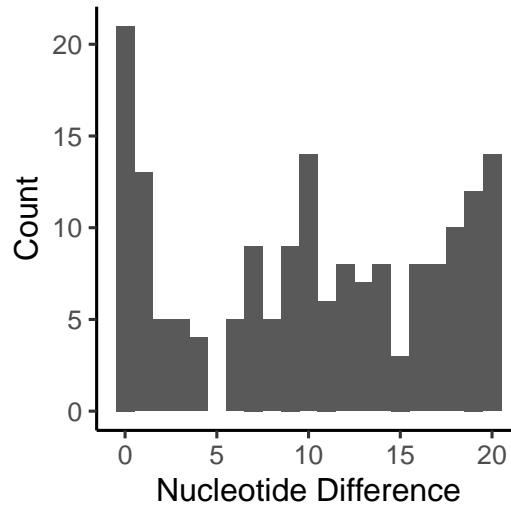
IGHV1/OR15-3*02

1 sequences assigned
No exact matches.



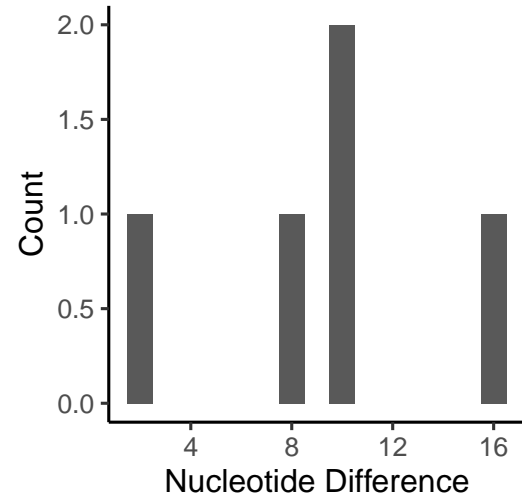
IGHV5-10-1*01_03

218 sequences assigned
21 (9.6%) exact matches, in which:
16 unique CDR3
4 unique J



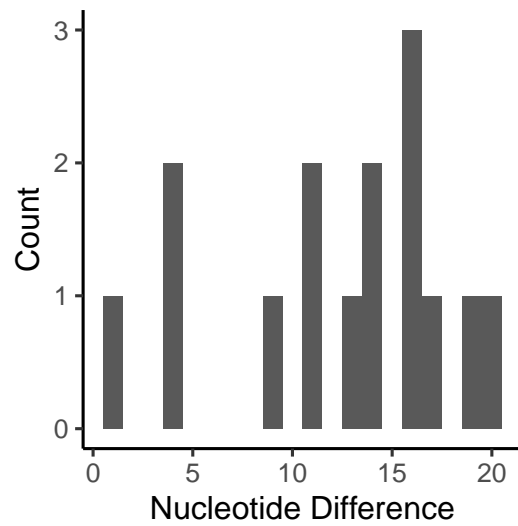
IGHV5-51*07

5 sequences assigned
No exact matches.



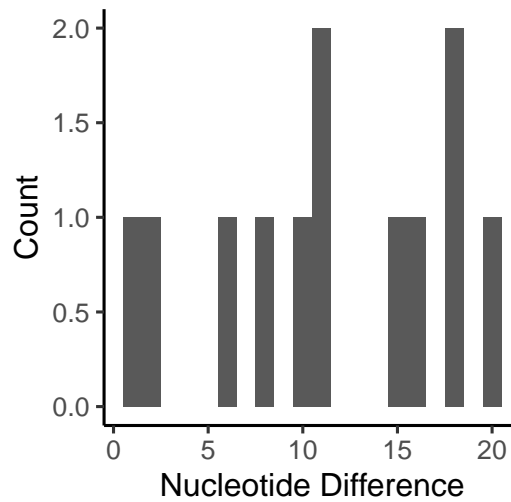
IGHV4/OR15-8*01

25 sequences assigned
No exact matches.



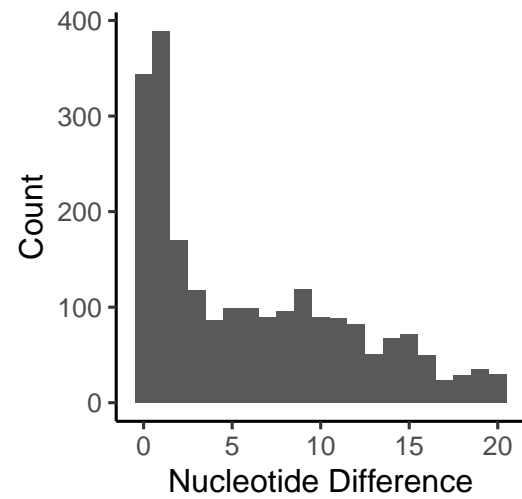
IGHV5-51*04

15 sequences assigned
No exact matches.



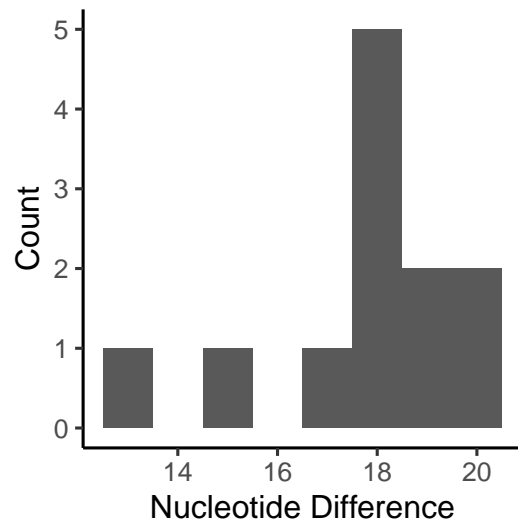
IGHV6-1*01_02

2410 sequences assigned
344 (14.3%) exact matches, in which:
231 unique CDR3
5 unique J



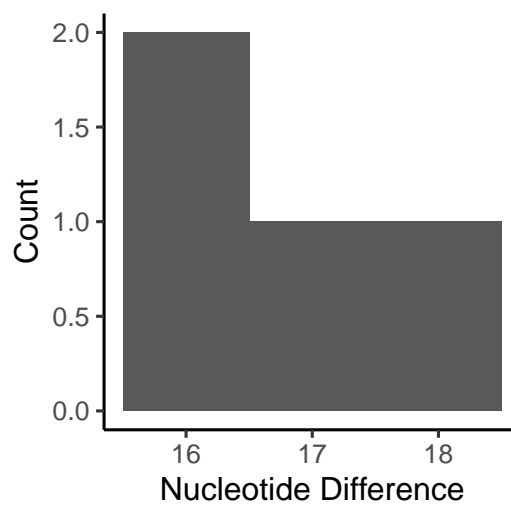
IGHV4/OR15-8*02

39 sequences assigned
No exact matches.



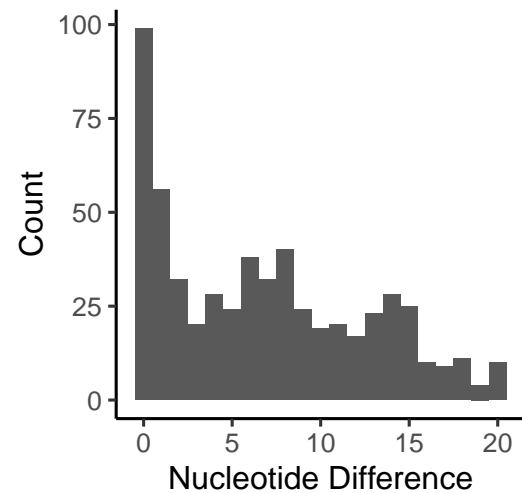
IGHV5-51*06

7 sequences assigned
No exact matches.



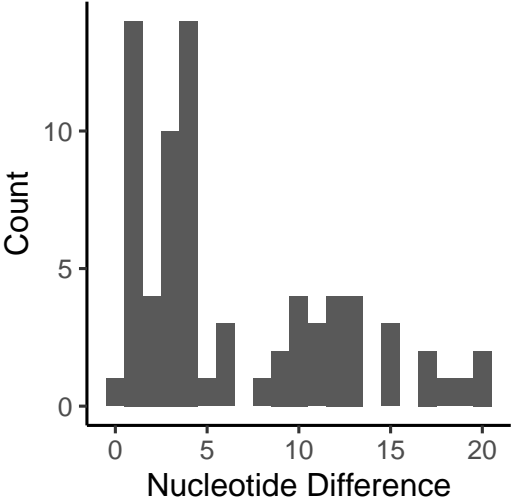
IGHV6-1*01_02_A315G

606 sequences assigned
99 (16.3%) exact matches, in which:
98 unique CDR3
6 unique J



IGHV7-4-1*01

81 sequences assigned
1 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



IGHV6-1*01_02_A315G

