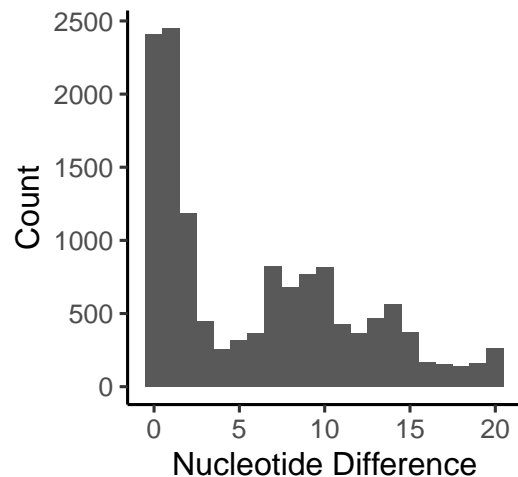


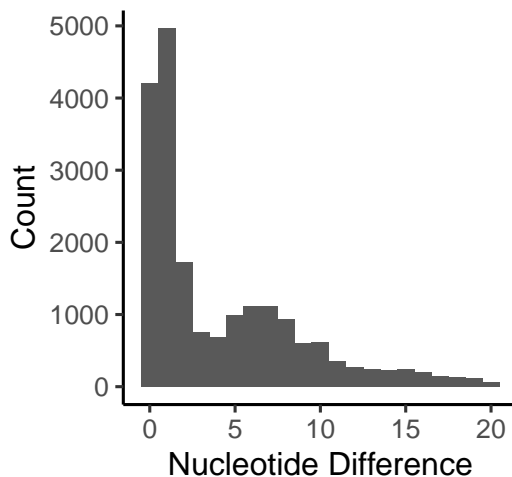
IGHV1-2*02

14746 sequences assigned
2408 (16.3%) exact matches, in which:
1982 unique CDR3
6 unique J



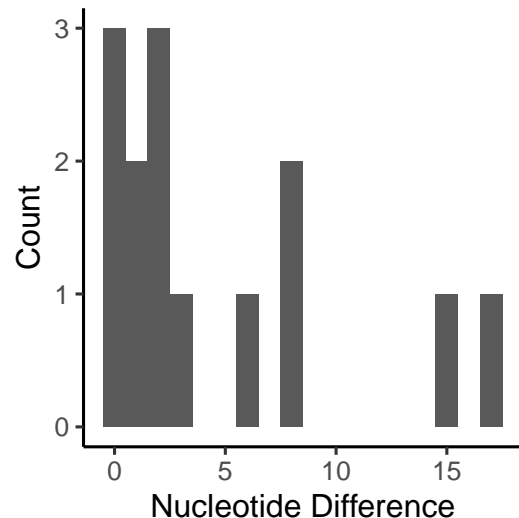
IGHV1-8*01

21091 sequences assigned
4209 (20%) exact matches, in which:
3386 unique CDR3
6 unique J



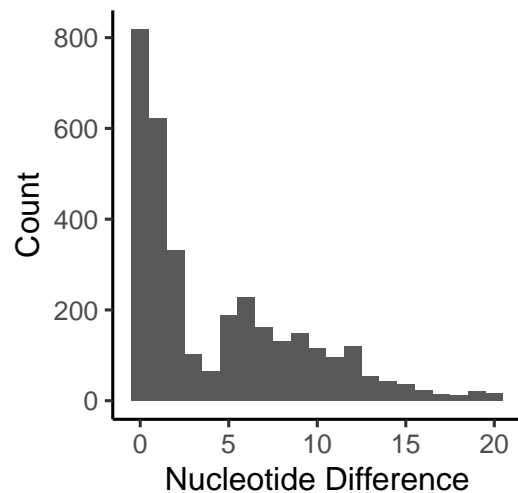
IGHV1-45*02

17 sequences assigned
3 (17.6%) exact matches, in which:
3 unique CDR3
3 unique J



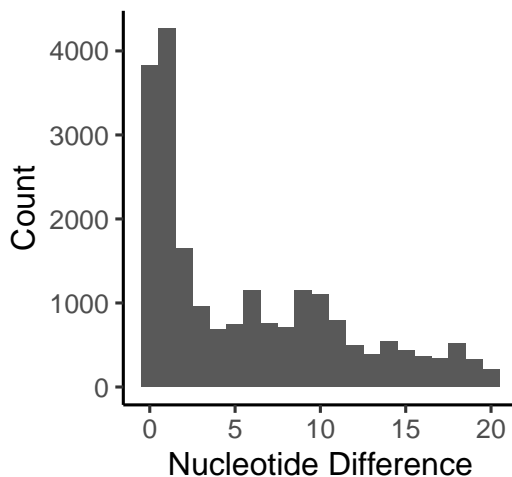
IGHV1-2*04

3438 sequences assigned
819 (23.8%) exact matches, in which:
696 unique CDR3
6 unique J



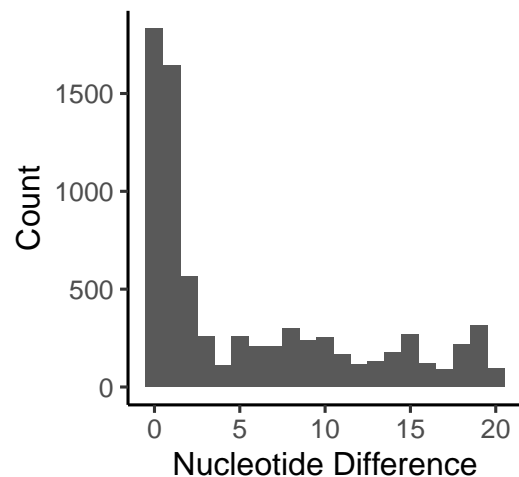
IGHV1-18*01

24431 sequences assigned
3825 (15.7%) exact matches, in which:
3078 unique CDR3
6 unique J



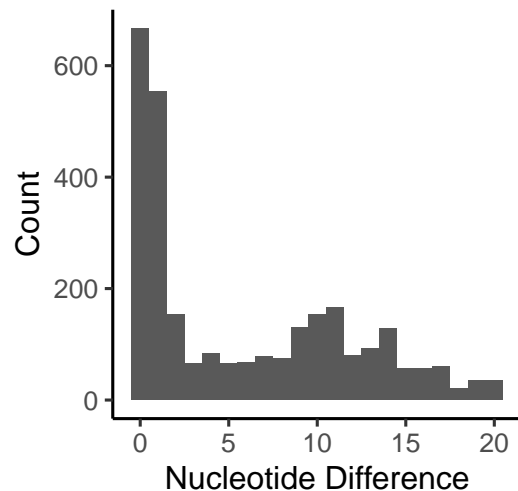
IGHV1-46*01

8041 sequences assigned
1831 (22.8%) exact matches, in which:
1553 unique CDR3
6 unique J



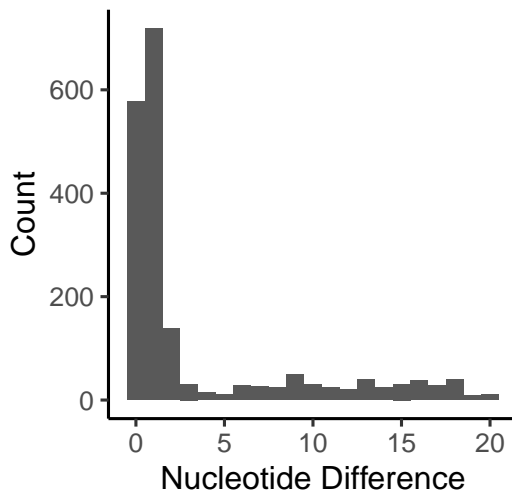
IGHV1-3*01_05

3039 sequences assigned
667 (21.9%) exact matches, in which:
559 unique CDR3
6 unique J



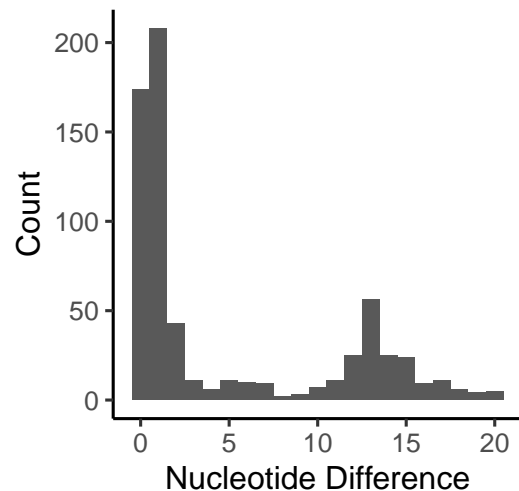
IGHV1-24*01

1997 sequences assigned
577 (28.9%) exact matches, in which:
392 unique CDR3
6 unique J



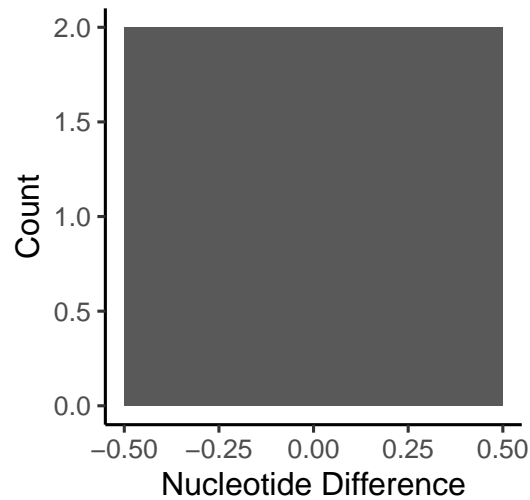
IGHV1-58*01_03

729 sequences assigned
174 (23.9%) exact matches, in which:
124 unique CDR3
6 unique J



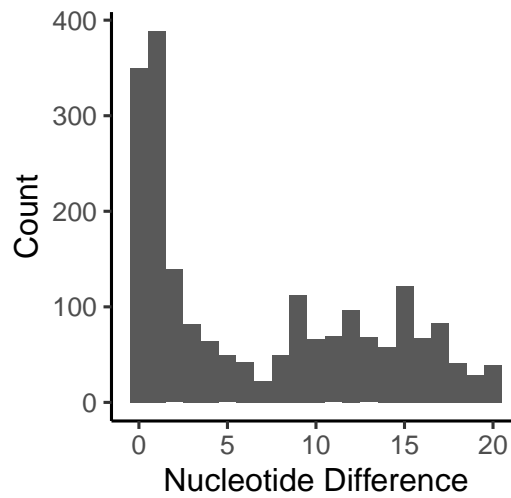
IGHV1-68*01

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



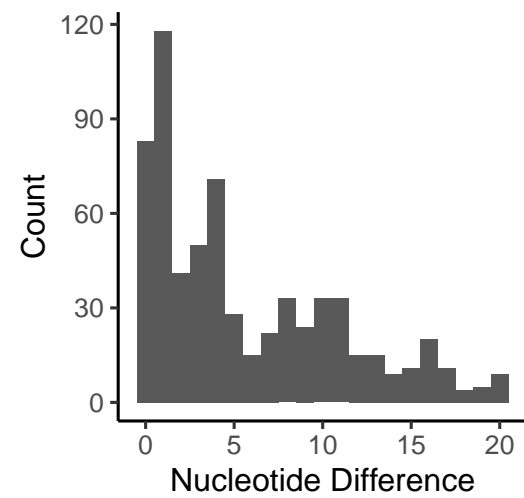
IGHV2-5*01

2504 sequences assigned
350 (14%) exact matches, in which:
287 unique CDR3
6 unique J



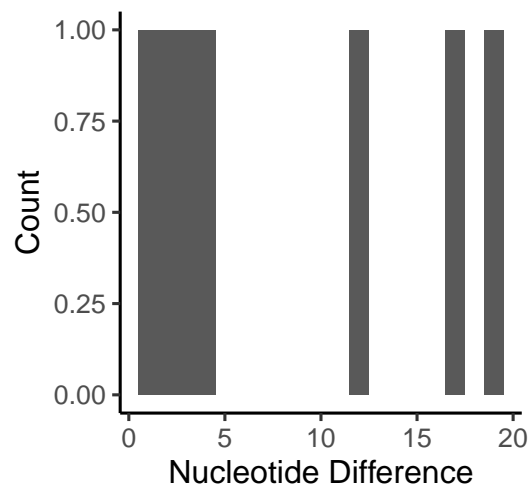
IGHV2-70*04

669 sequences assigned
83 (12.4%) exact matches, in which:
73 unique CDR3
5 unique J



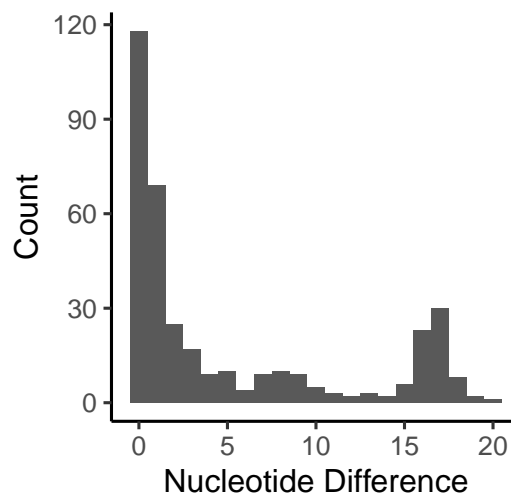
IGHV1-69-2*01

27 sequences assigned
No exact matches.



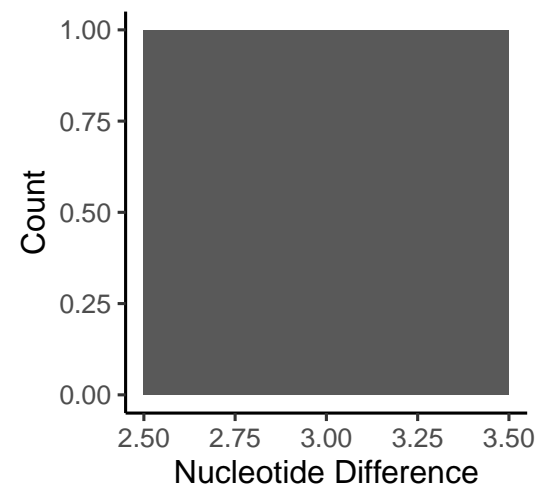
IGHV2-26*01

399 sequences assigned
118 (29.6%) exact matches, in which:
102 unique CDR3
6 unique J



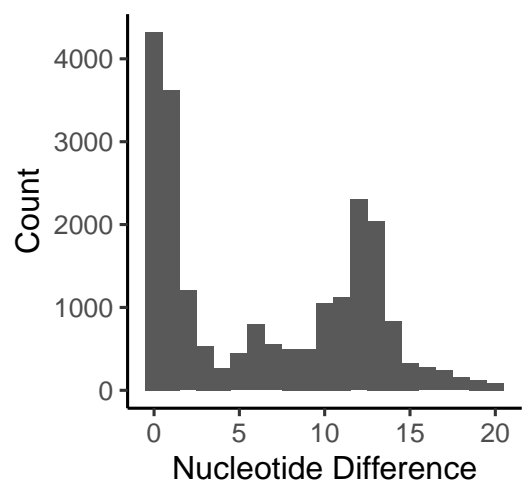
IGHV2-70D*14

1 sequences assigned
No exact matches.



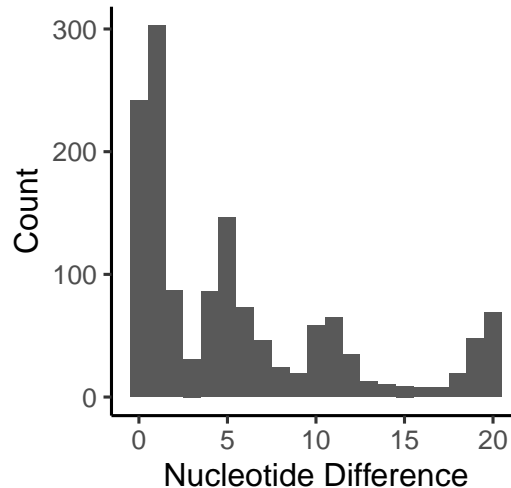
IGHV1-69*01_12_13

22120 sequences assigned
4323 (19.5%) exact matches, in which:
3794 unique CDR3
6 unique J



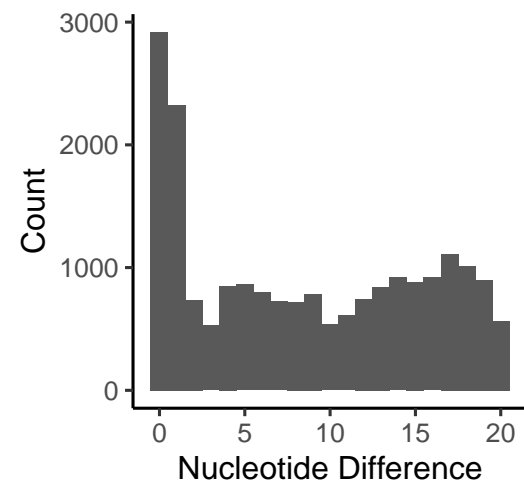
IGHV2-70*01

1808 sequences assigned
242 (13.4%) exact matches, in which:
178 unique CDR3
6 unique J



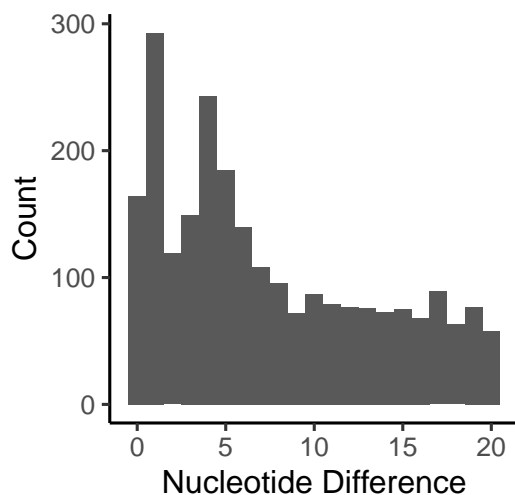
IGHV3-7*01

22743 sequences assigned
2919 (12.8%) exact matches, in which:
1989 unique CDR3
6 unique J



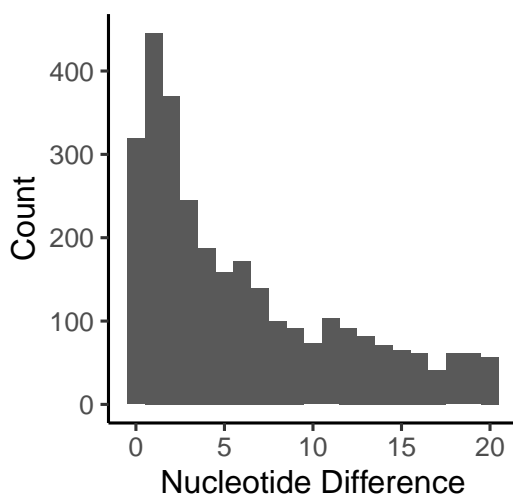
IGHV3-7*03

2798 sequences assigned
164 (5.9%) exact matches, in which:
152 unique CDR3
6 unique J



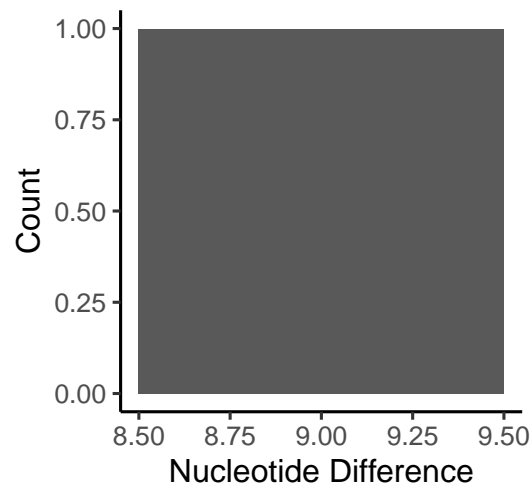
IGHV3-11*04

3231 sequences assigned
319 (9.9%) exact matches, in which:
300 unique CDR3
6 unique J



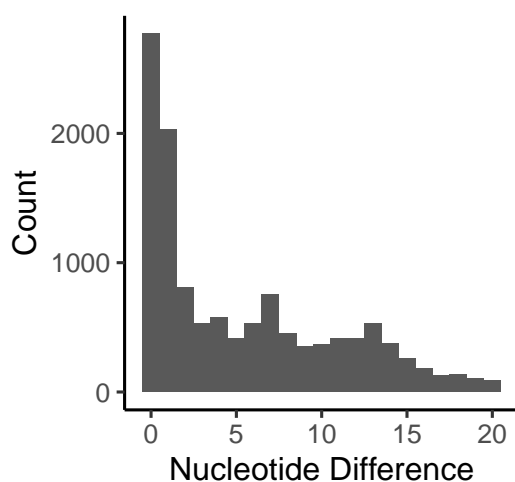
IGHV3-19*01

1 sequences assigned
No exact matches.



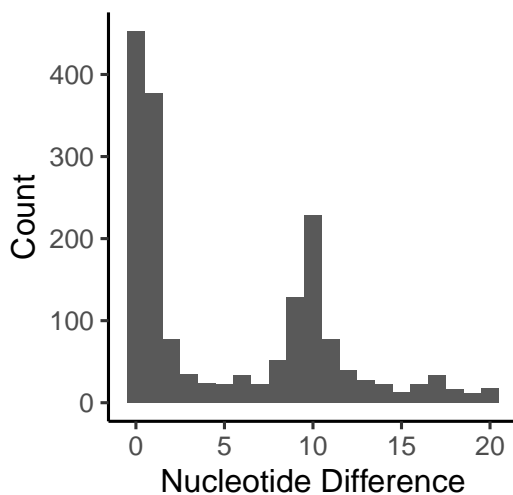
IGHV3-9*01

13340 sequences assigned
2771 (20.8%) exact matches, in which:
1705 unique CDR3
6 unique J



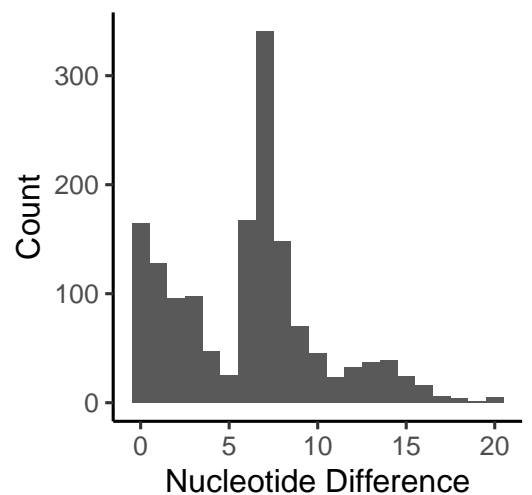
IGHV3-13*01

1979 sequences assigned
453 (22.9%) exact matches, in which:
251 unique CDR3
6 unique J



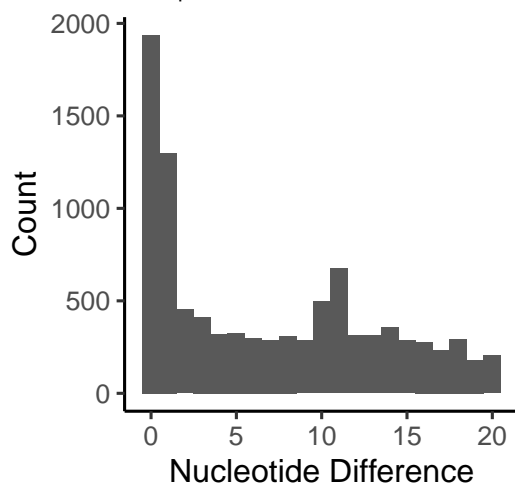
IGHV3-20*01_02

1534 sequences assigned
165 (10.8%) exact matches, in which:
102 unique CDR3
5 unique J



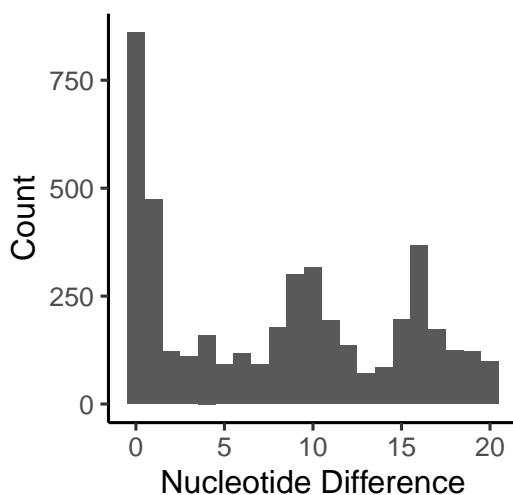
IGHV3-11*01

13679 sequences assigned
1937 (14.2%) exact matches, in which:
1311 unique CDR3
6 unique J



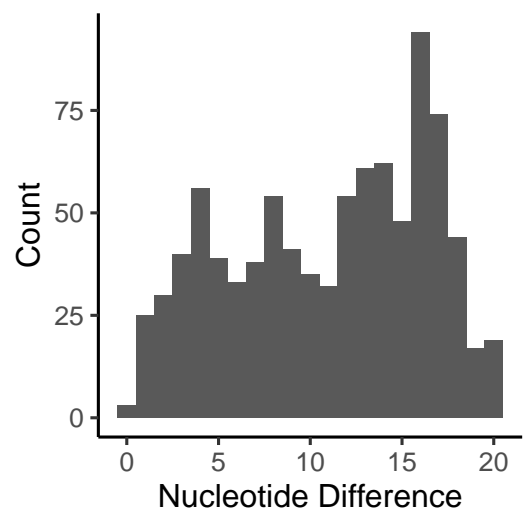
IGHV3-15*01_02

4951 sequences assigned
861 (17.4%) exact matches, in which:
552 unique CDR3
6 unique J



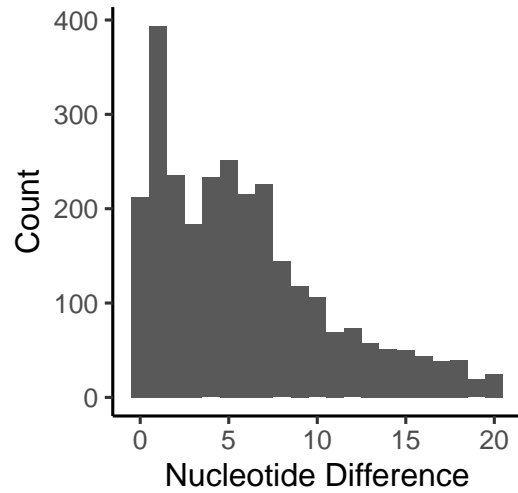
IGHV3-20*03_04

973 sequences assigned
3 (0.3%) exact matches, in which:
3 unique CDR3
2 unique J



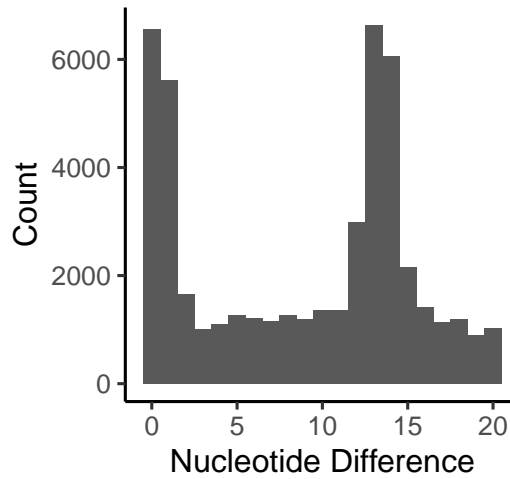
IGHV3-21*04

3094 sequences assigned
212 (6.9%) exact matches, in which:
201 unique CDR3
6 unique J



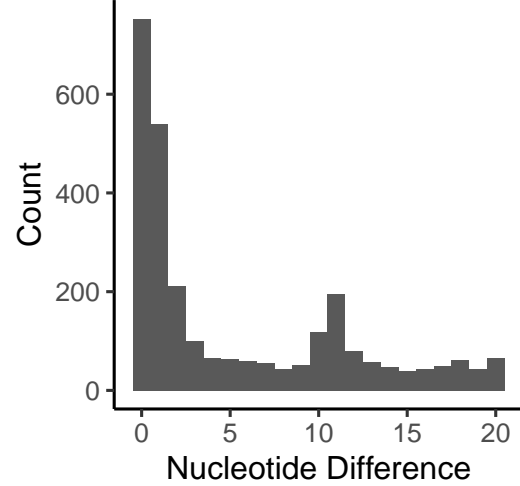
IGHV3-23*01_04

62468 sequences assigned
6556 (10.5%) exact matches, in which:
3816 unique CDR3
6 unique J



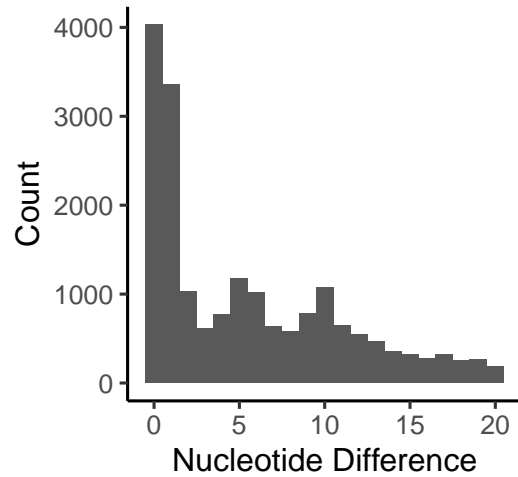
IGHV3-30*03

3070 sequences assigned
753 (24.5%) exact matches, in which:
689 unique CDR3
6 unique J



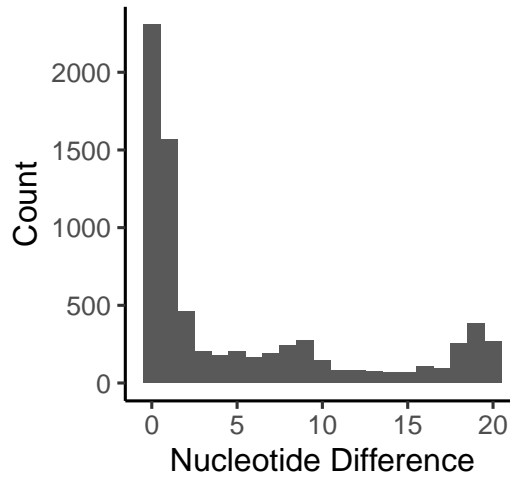
IGHV3-21*01_02

22546 sequences assigned
4030 (17.9%) exact matches, in which:
2574 unique CDR3
6 unique J



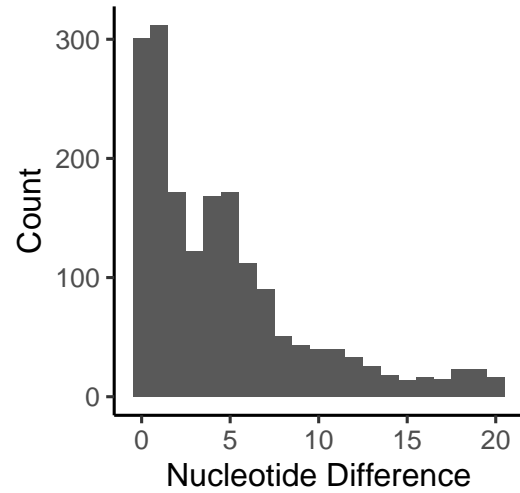
IGHV3-30-3*01

8572 sequences assigned
2306 (26.9%) exact matches, in which:
1626 unique CDR3
6 unique J



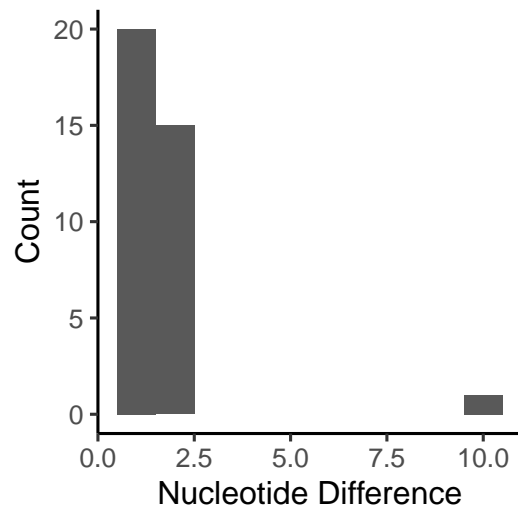
IGHV3-30*07

1898 sequences assigned
301 (15.9%) exact matches, in which:
277 unique CDR3
6 unique J



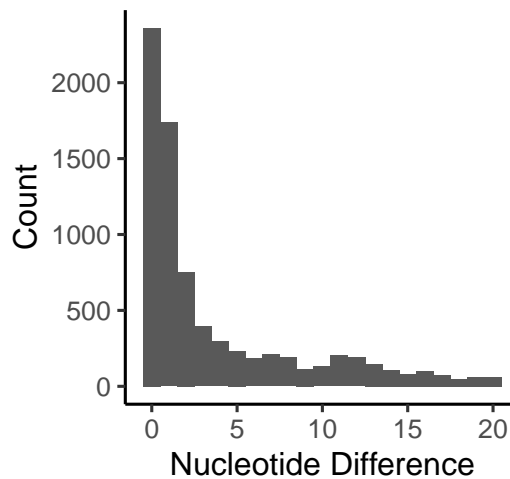
IGHV3-22*01_02

36 sequences assigned
No exact matches.



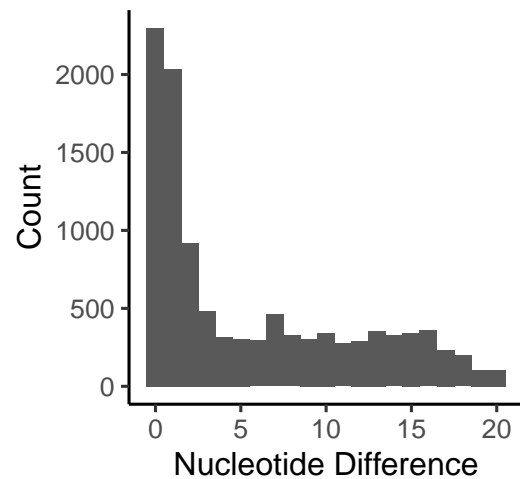
IGHV3-30*01

8849 sequences assigned
2360 (26.7%) exact matches, in which:
1645 unique CDR3
6 unique J



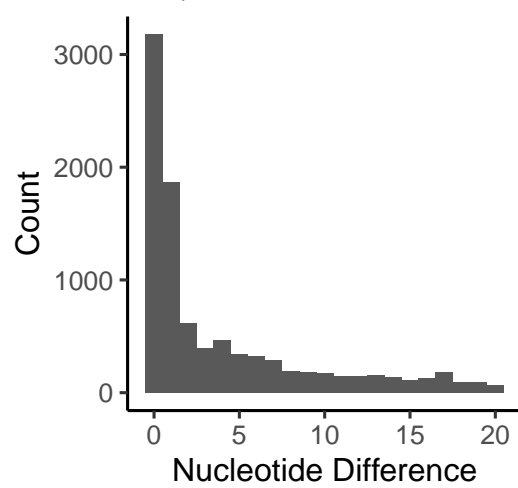
IGHV3-30*18

12492 sequences assigned
2298 (18.4%) exact matches, in which:
1359 unique CDR3
6 unique J



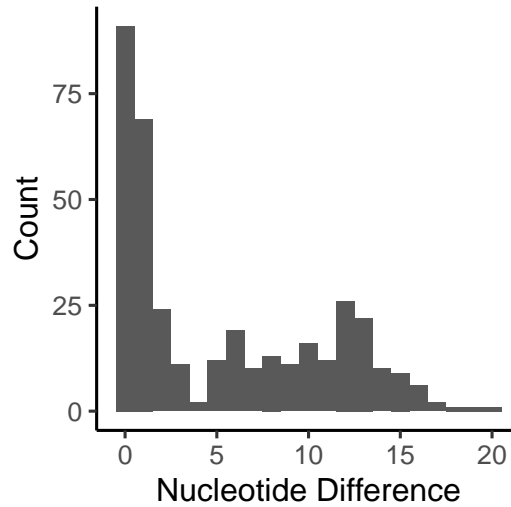
IGHV3-33*01

10110 sequences assigned
3178 (31.4%) exact matches, in which:
2169 unique CDR3
6 unique J



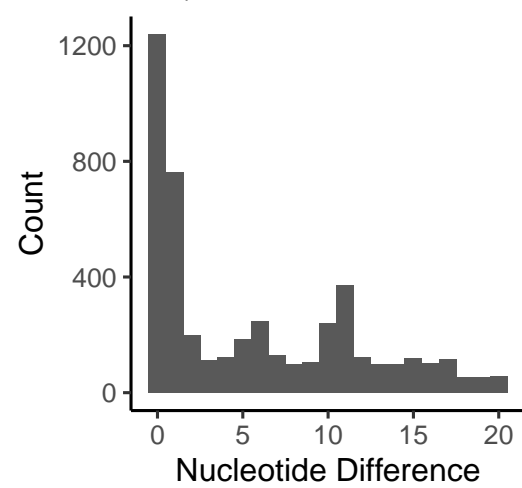
IGHV3-43*01

423 sequences assigned
91 (21.5%) exact matches, in which:
51 unique CDR3
5 unique J



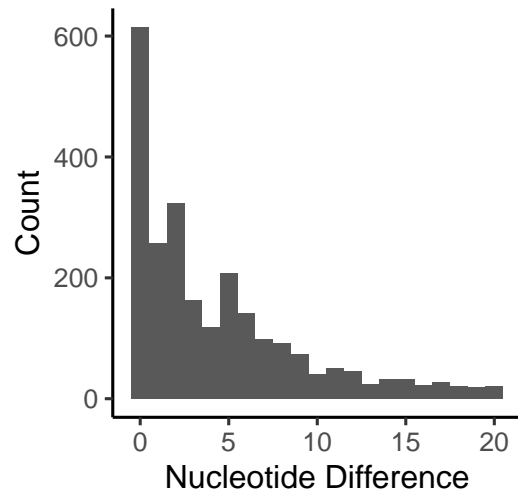
IGHV3-48*03

5417 sequences assigned
1239 (22.9%) exact matches, in which:
792 unique CDR3
6 unique J



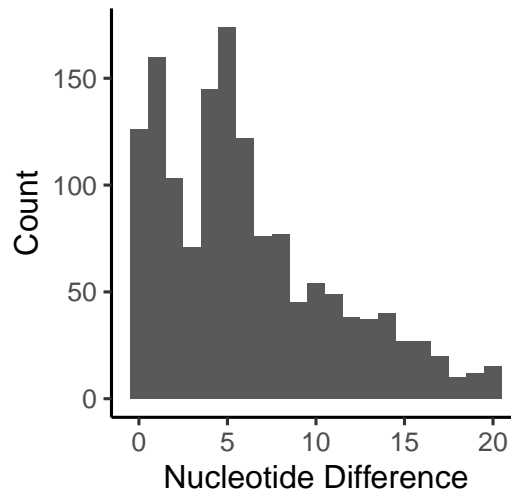
IGHV3-33*08

2518 sequences assigned
615 (24.4%) exact matches, in which:
501 unique CDR3
6 unique J



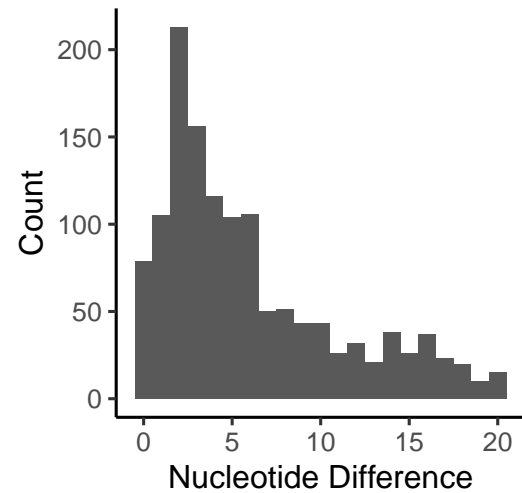
IGHV3-48*01

1511 sequences assigned
126 (8.3%) exact matches, in which:
122 unique CDR3
5 unique J



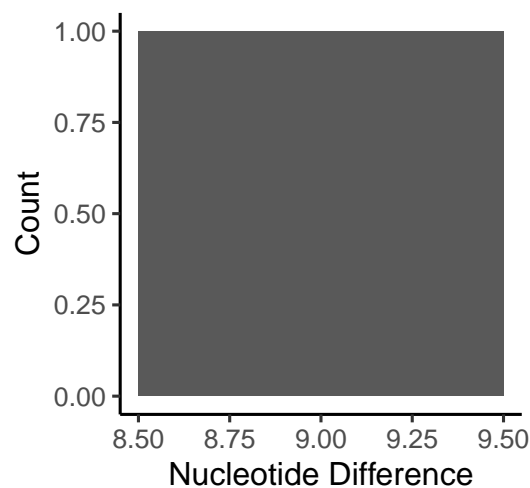
IGHV3-48*04

1450 sequences assigned
79 (5.4%) exact matches, in which:
77 unique CDR3
6 unique J



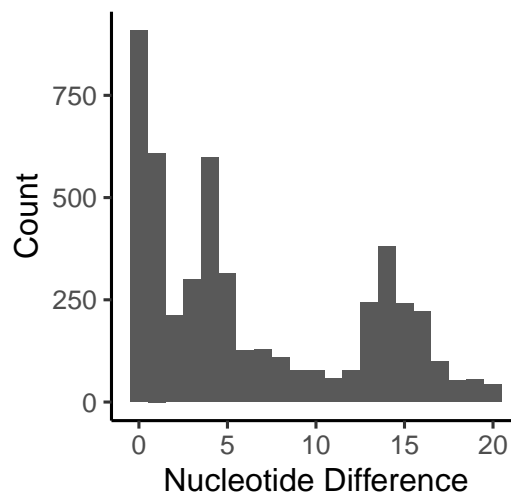
IGHV3-35*01

1 sequences assigned
No exact matches.



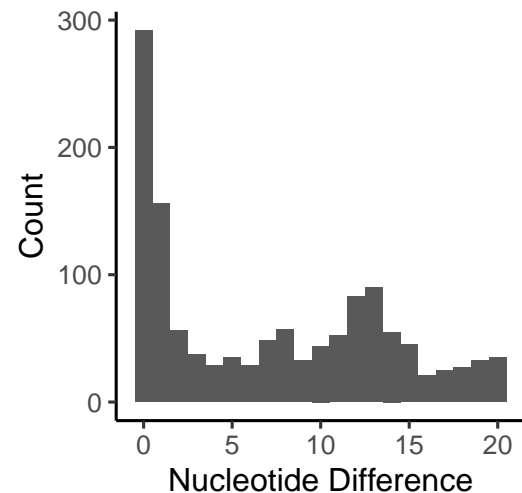
IGHV3-48*02

5611 sequences assigned
909 (16.2%) exact matches, in which:
584 unique CDR3
6 unique J



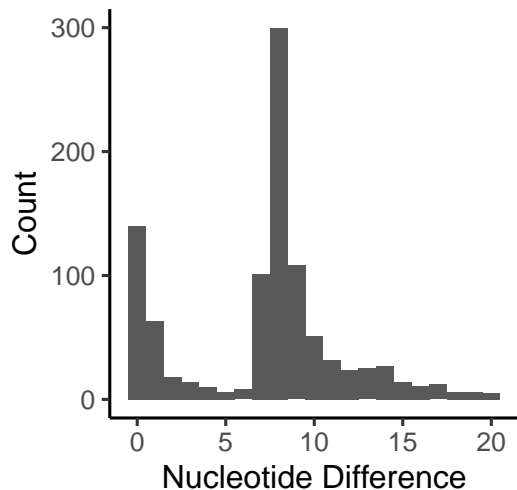
IGHV3-49*04

1386 sequences assigned
292 (21.1%) exact matches, in which:
186 unique CDR3
6 unique J



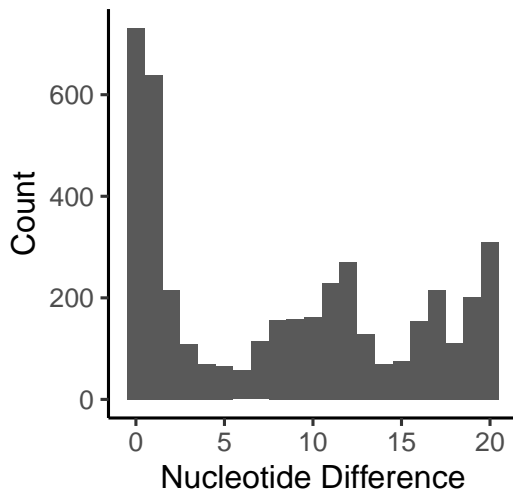
IGHV3-49*03_05

993 sequences assigned
140 (14.1%) exact matches, in which:
93 unique CDR3
5 unique J



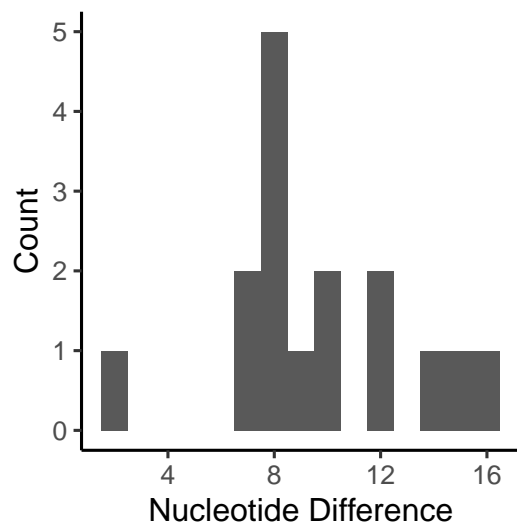
IGHV3-53*01_02

5942 sequences assigned
732 (12.3%) exact matches, in which:
512 unique CDR3
6 unique J



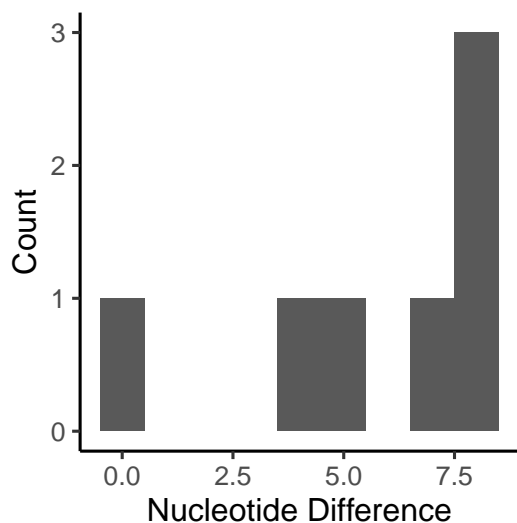
IGHV3-66*01

19 sequences assigned
No exact matches.



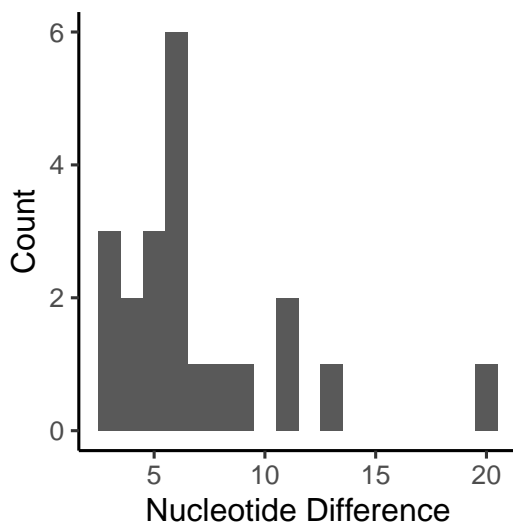
IGHV3-52*02

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



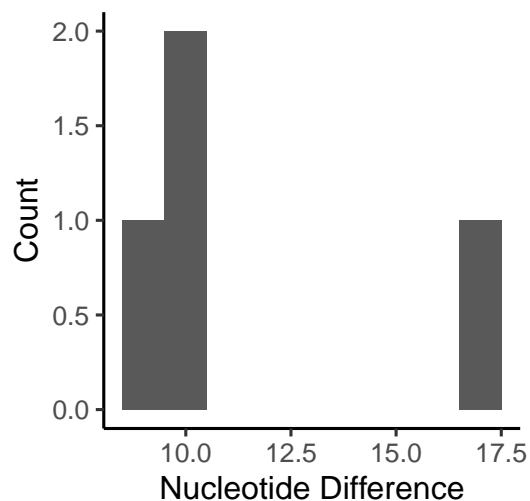
IGHV3-64*04

21 sequences assigned
No exact matches.



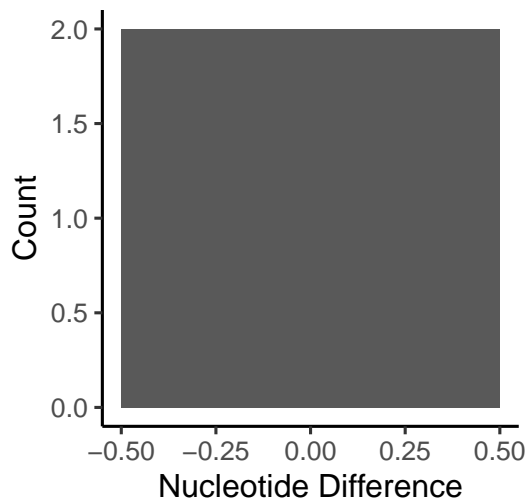
IGHV3-66*02

7 sequences assigned
No exact matches.



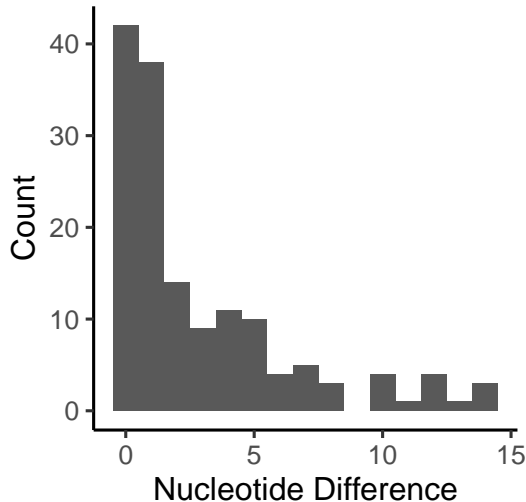
IGHV3-52*01_03

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



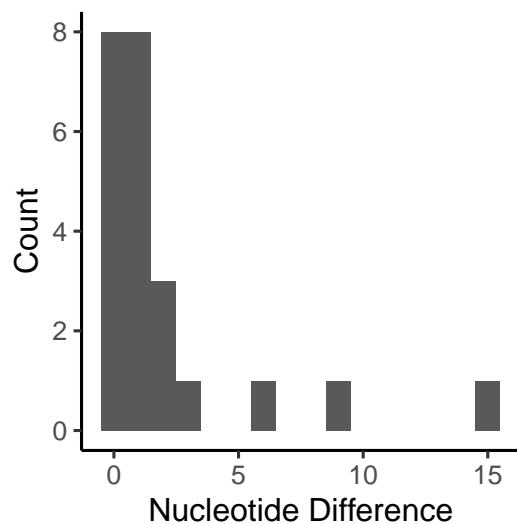
IGHV3-64*02_07

150 sequences assigned
42 (28%) exact matches, in which:
30 unique CDR3
5 unique J



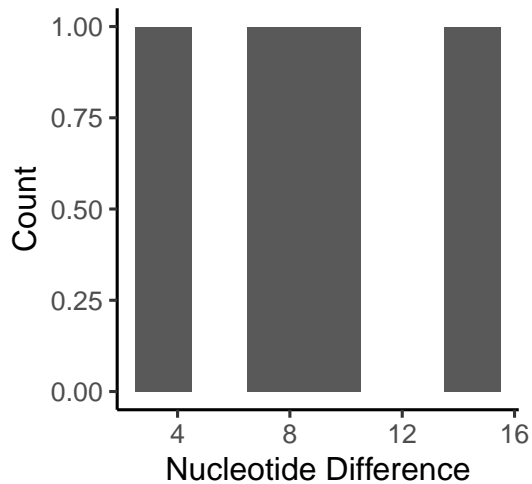
IGHV3-66*03

23 sequences assigned
8 (34.8%) exact matches, in which:
8 unique CDR3
3 unique J



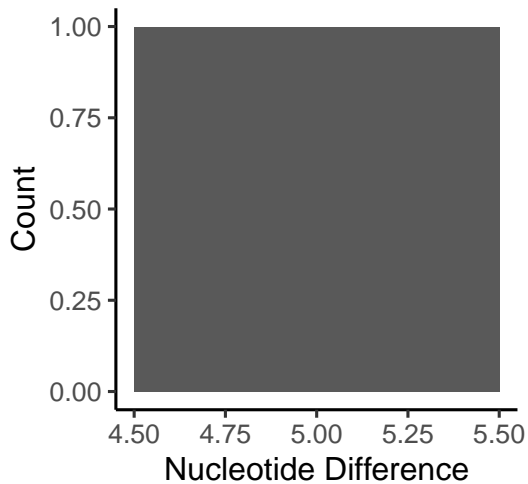
IGHV3-66*04

14 sequences assigned
No exact matches.



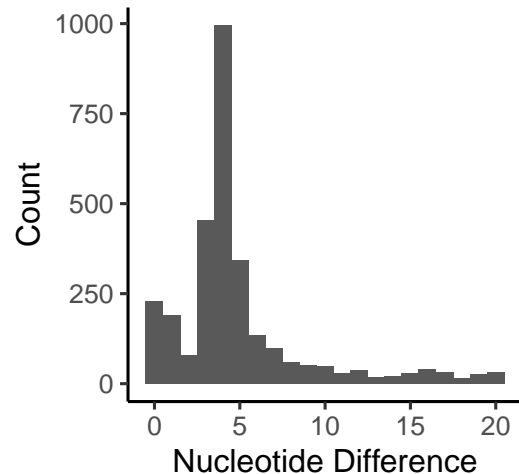
IGHV3-71*03

2 sequences assigned
No exact matches.



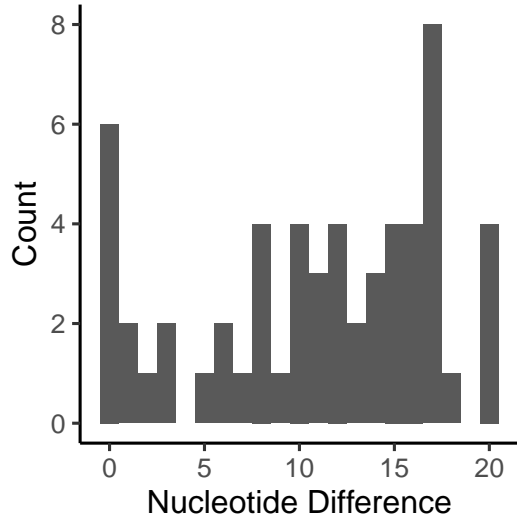
IGHV3-73*01_02

3148 sequences assigned
228 (7.2%) exact matches, in which:
144 unique CDR3
6 unique J



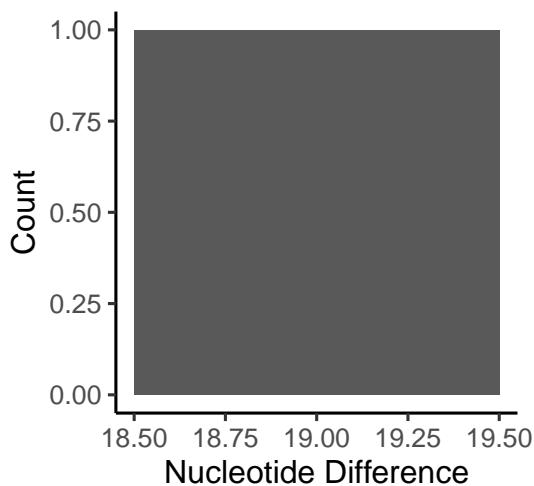
IGHV3-69-1*01

82 sequences assigned
6 (7.3%) exact matches, in which:
6 unique CDR3
4 unique J



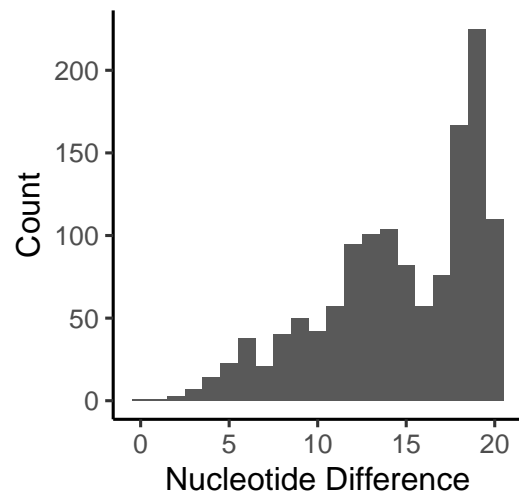
IGHV3-71*01_04

3 sequences assigned
No exact matches.



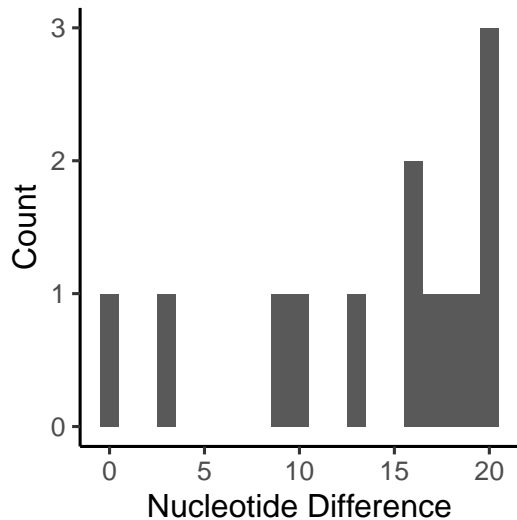
IGHV3-74*03

1668 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
0 unique J



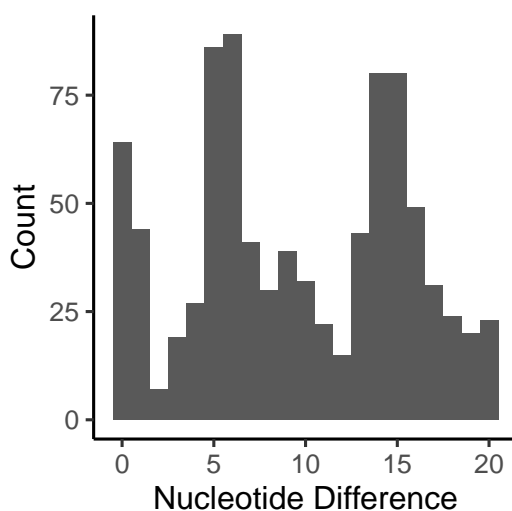
IGHV3-69-1*02

24 sequences assigned
1 (4.2%) exact matches, in which:
1 unique CDR3
1 unique J



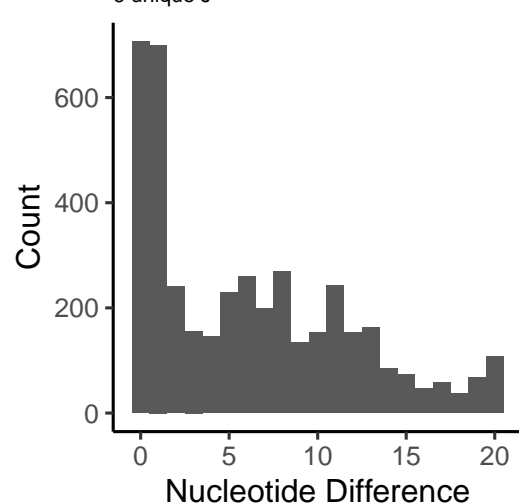
IGHV3-72*01

997 sequences assigned
64 (6.4%) exact matches, in which:
41 unique CDR3
3 unique J



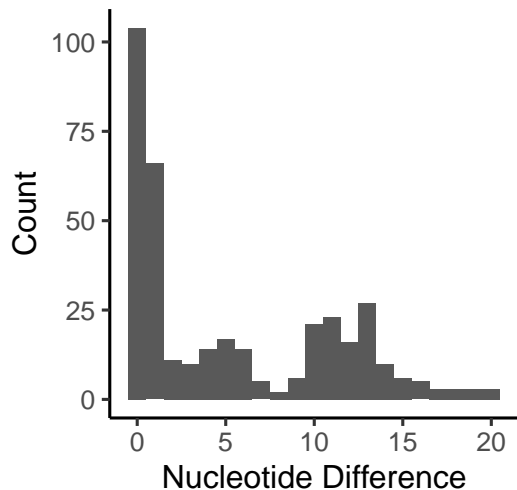
IGHV3-74*01_02

4618 sequences assigned
707 (15.3%) exact matches, in which:
391 unique CDR3
6 unique J



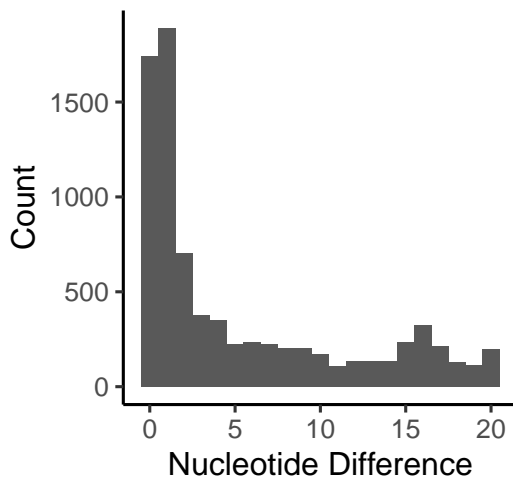
IGHV3-43D*04

370 sequences assigned
104 (28.1%) exact matches, in which:
59 unique CDR3
5 unique J



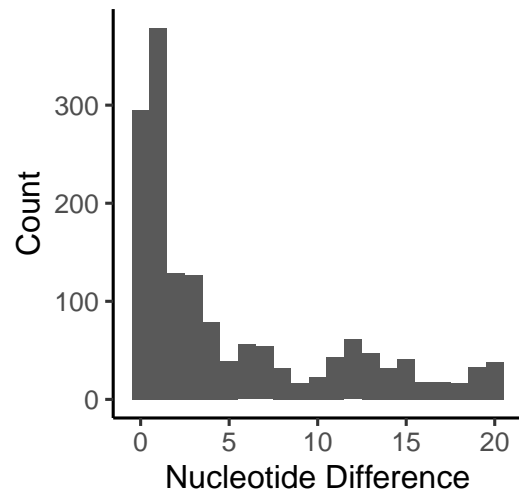
IGHV4-4*07

9842 sequences assigned
1744 (17.7%) exact matches, in which:
1466 unique CDR3
6 unique J



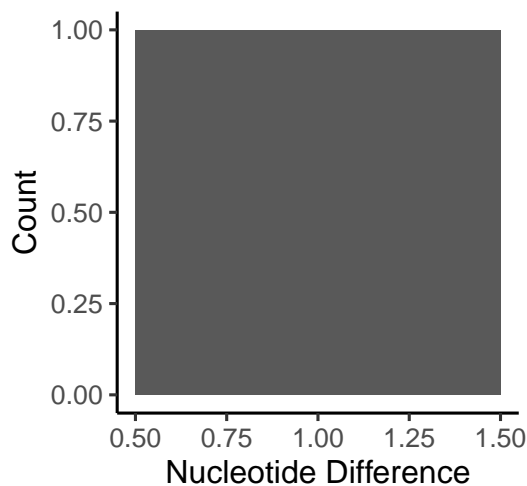
IGHV4-30-4*01

2218 sequences assigned
295 (13.3%) exact matches, in which:
248 unique CDR3
6 unique J



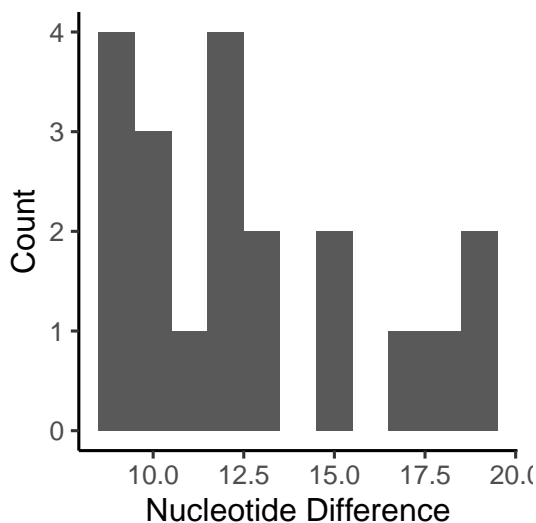
IGHV3-64D*09

1 sequences assigned
No exact matches.



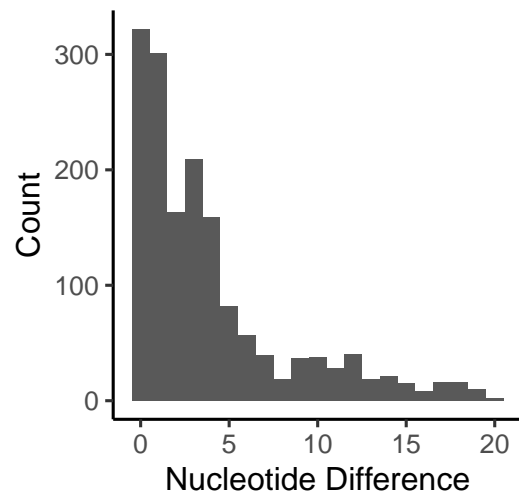
IGHV4-28*03

26 sequences assigned
No exact matches.



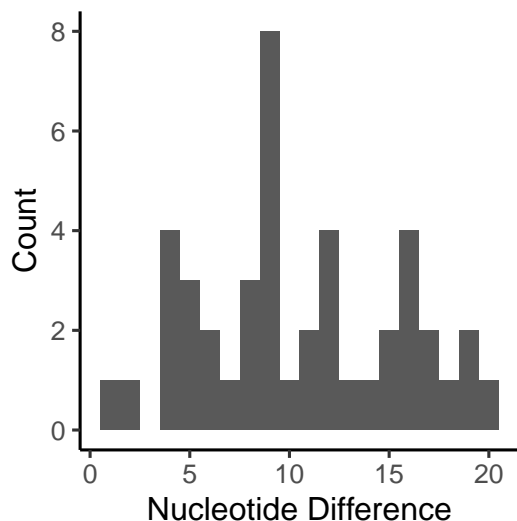
IGHV4-30-2*01

1768 sequences assigned
322 (18.2%) exact matches, in which:
208 unique CDR3
6 unique J



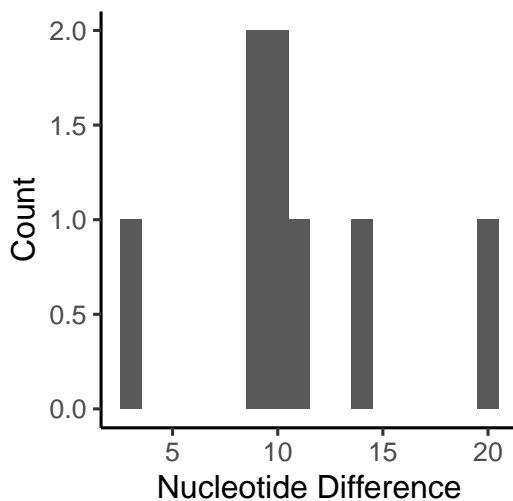
IGHV3-NL1*01

78 sequences assigned
No exact matches.



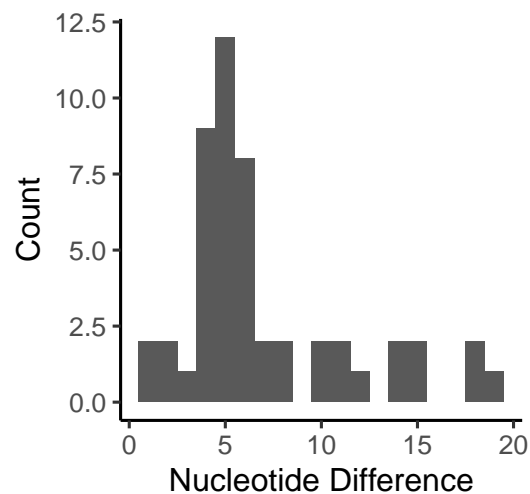
IGHV4-28*01_07

12 sequences assigned
No exact matches.



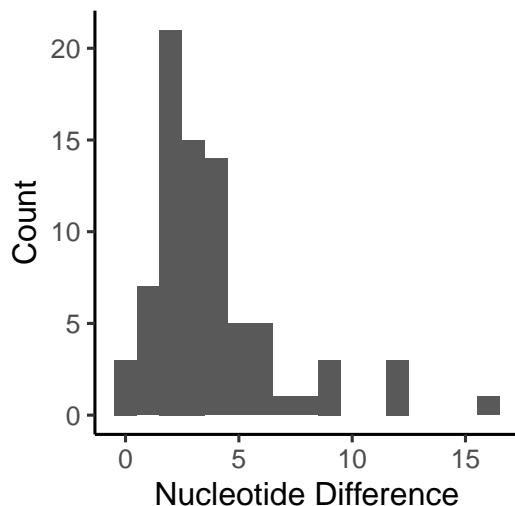
IGHV4-30-2*03

55 sequences assigned
No exact matches.



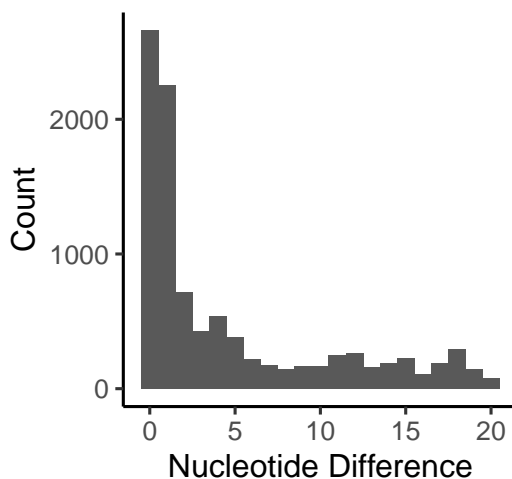
IGHV4-30-2*05

80 sequences assigned
3 (3.8%) exact matches, in which:
3 unique CDR3
3 unique J



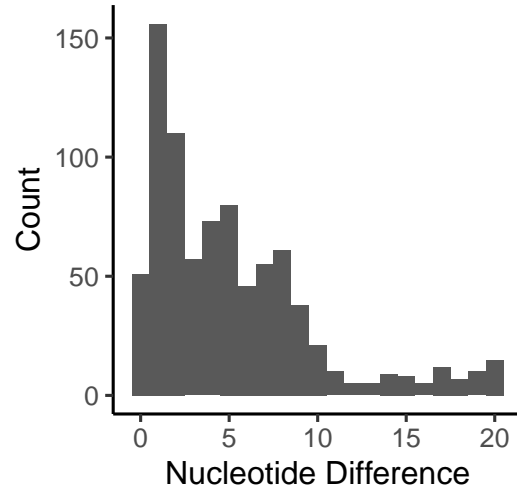
IGHV4-34*01_02

10858 sequences assigned
2660 (24.5%) exact matches, in which:
2203 unique CDR3
6 unique J



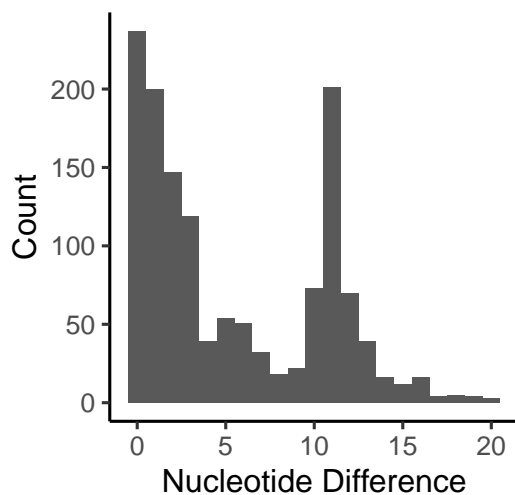
IGHV4-59*08

971 sequences assigned
51 (5.3%) exact matches, in which:
47 unique CDR3
5 unique J



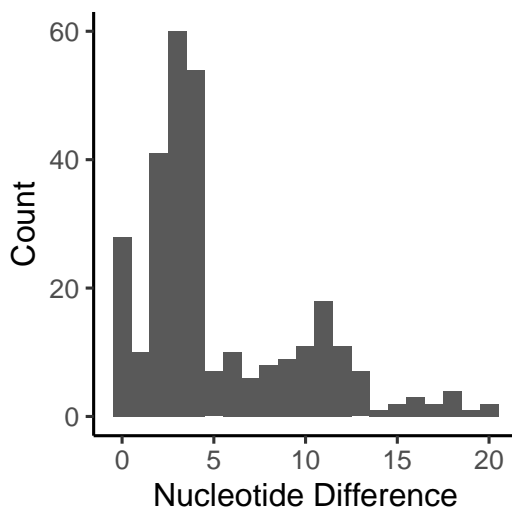
IGHV4-31*01

1380 sequences assigned
237 (17.2%) exact matches, in which:
202 unique CDR3
6 unique J



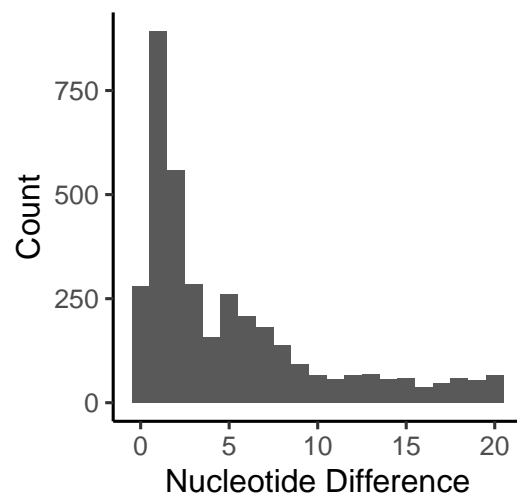
IGHV4-38-2*02

351 sequences assigned
28 (8%) exact matches, in which:
28 unique CDR3
4 unique J



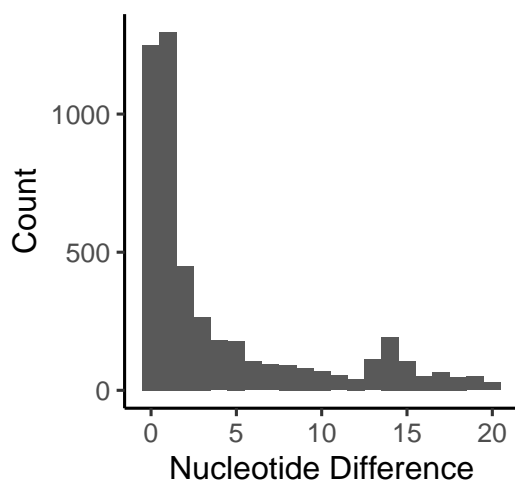
IGHV4-59*12

9932 sequences assigned
279 (2.8%) exact matches, in which:
273 unique CDR3
6 unique J



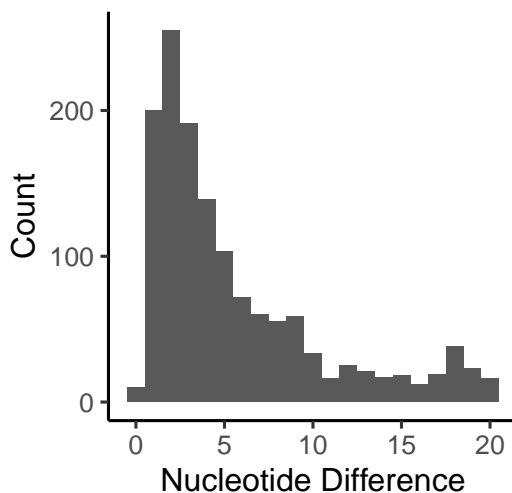
IGHV4-31*02

5297 sequences assigned
1251 (23.6%) exact matches, in which:
1048 unique CDR3
6 unique J



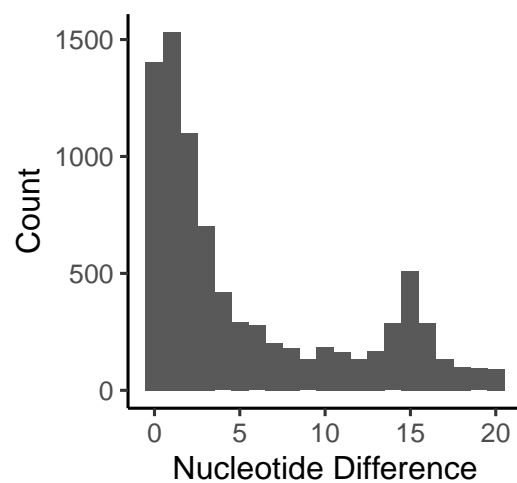
IGHV4-39*07

1573 sequences assigned
10 (0.6%) exact matches, in which:
10 unique CDR3
4 unique J



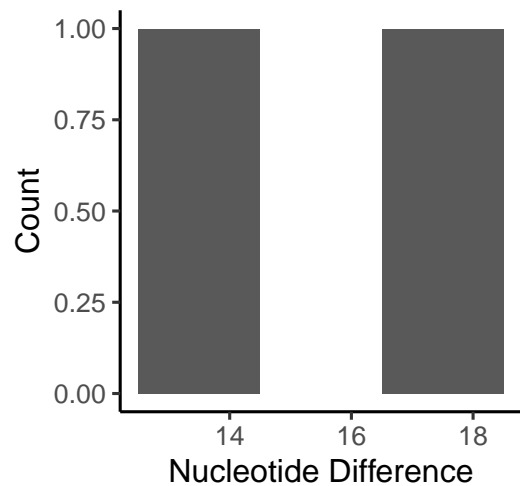
IGHV4-61*01

9657 sequences assigned
1405 (14.5%) exact matches, in which:
1206 unique CDR3
6 unique J



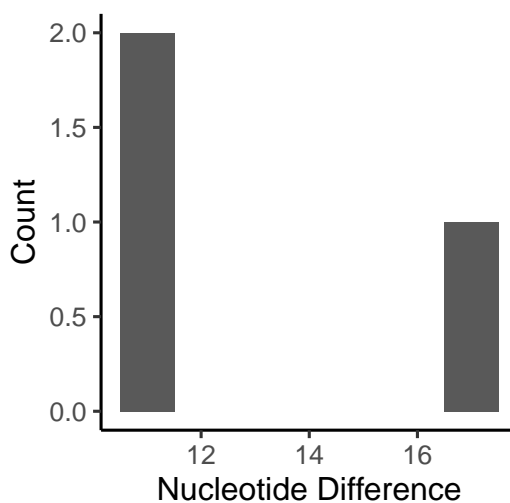
IGHV1/OR15-2*02_03

8 sequences assigned
No exact matches.



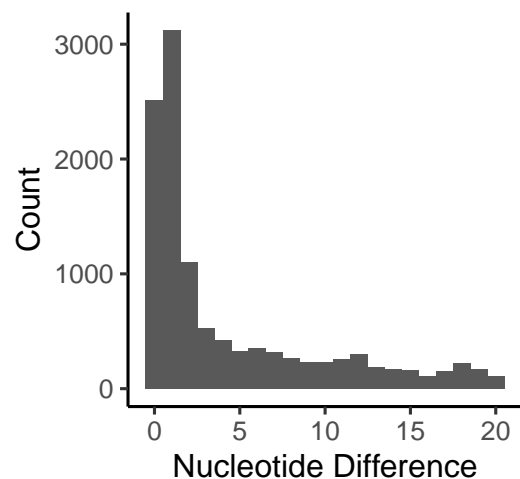
IGHV4/OR15-8*01

3 sequences assigned
No exact matches.



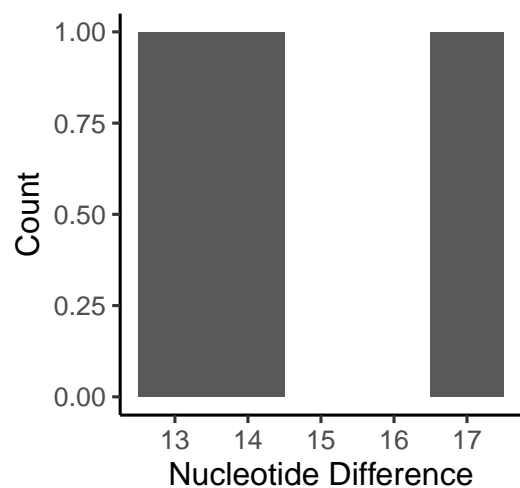
IGHV5-51*01_03

13424 sequences assigned
2511 (18.7%) exact matches, in which:
1405 unique CDR3
6 unique J



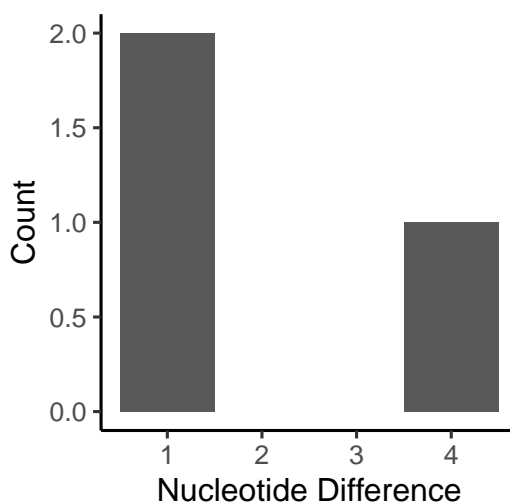
IGHV1/OR15-3*02

3 sequences assigned
No exact matches.



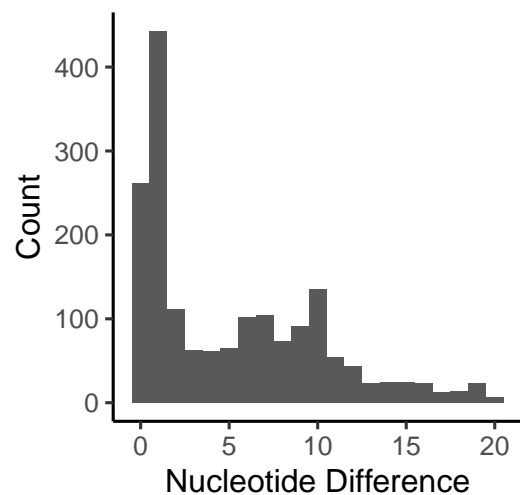
IGHV5-10-1*01_03

4 sequences assigned
No exact matches.



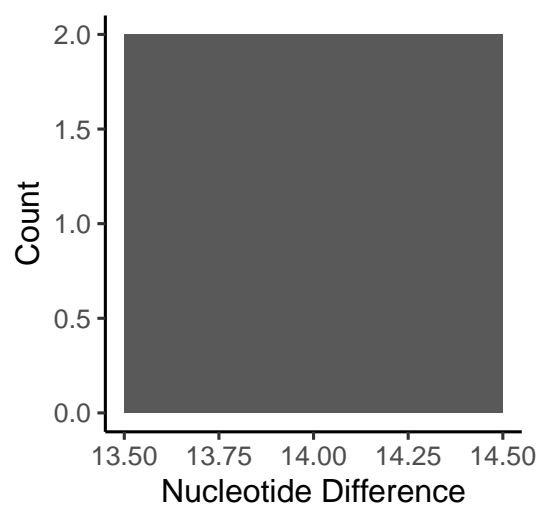
IGHV6-1*01_02

1908 sequences assigned
262 (13.7%) exact matches, in which:
203 unique CDR3
6 unique J



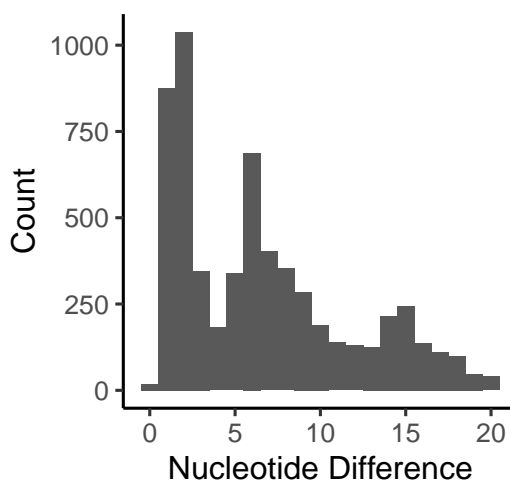
IGHV1/OR15-4*01

2 sequences assigned
No exact matches.



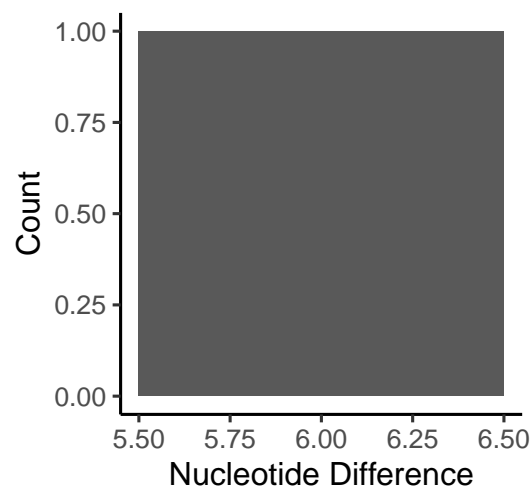
IGHV5-51*07

6159 sequences assigned
18 (0.3%) exact matches, in which:
18 unique CDR3
5 unique J



IGHV3/OR16-13*01

3 sequences assigned
No exact matches.





Warning – no inferred sequences found.