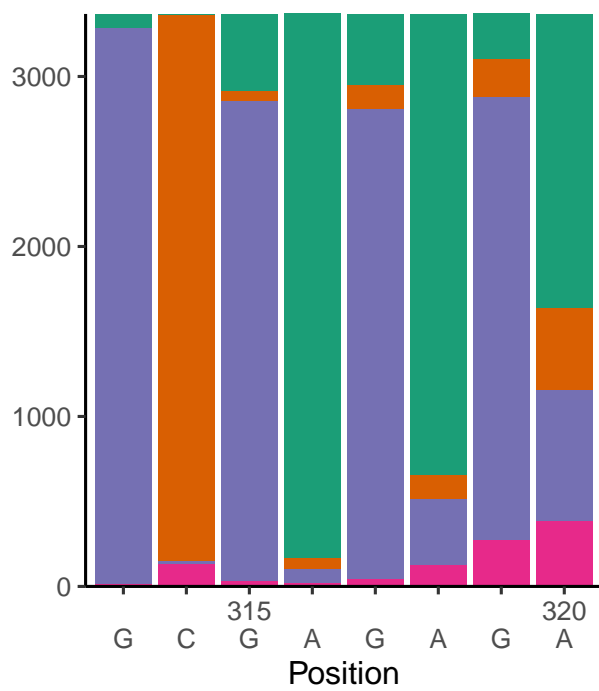


Gene IGHV3-48*03_T303G

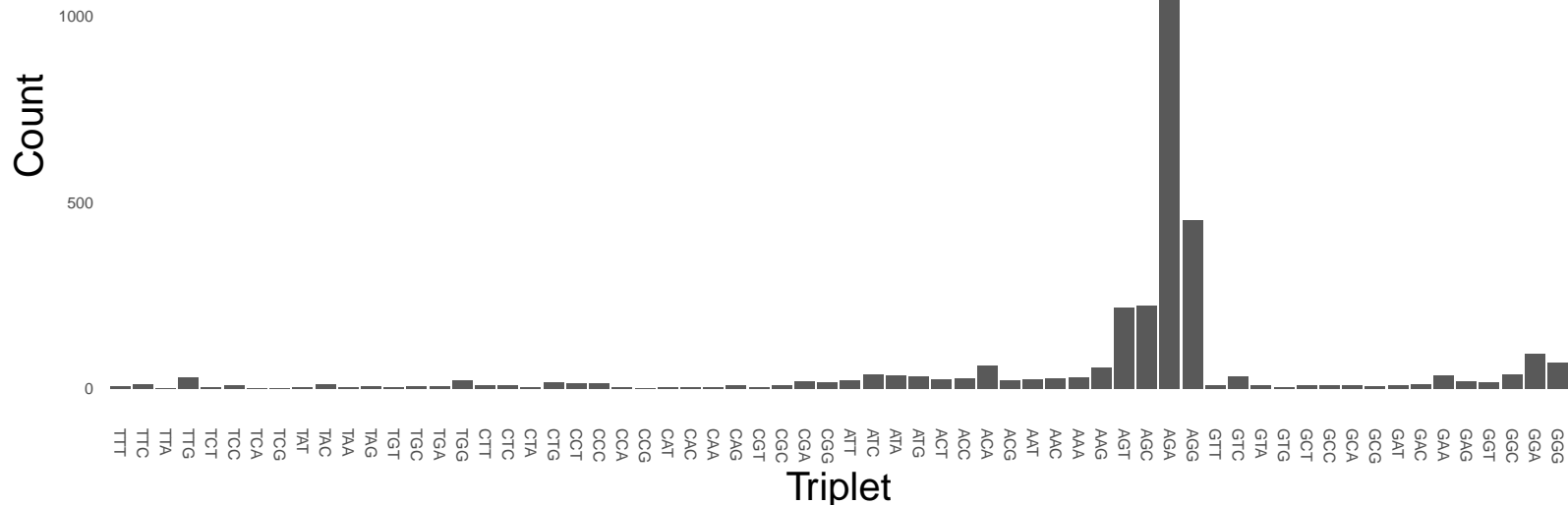
Count



Gene IGHV3-48*03_T303G

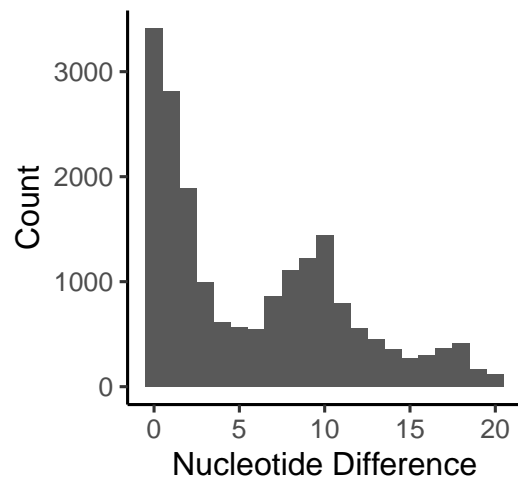


IGHV3-48*03_T303G- Final 3 nucleotides as a triplet



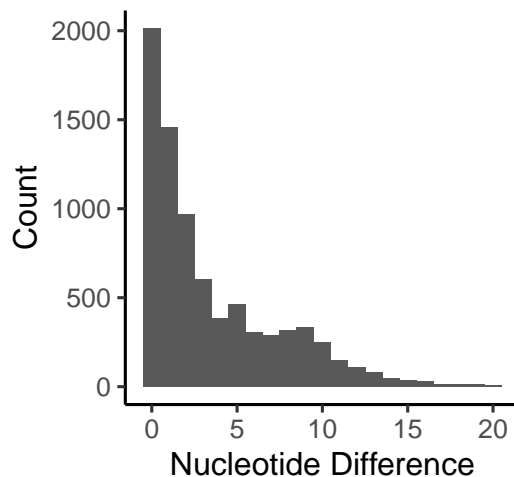
IGHV1-2*02

19918 sequences assigned
3412 (17.1%) exact matches, in which:
3090 unique CDR3
6 unique J



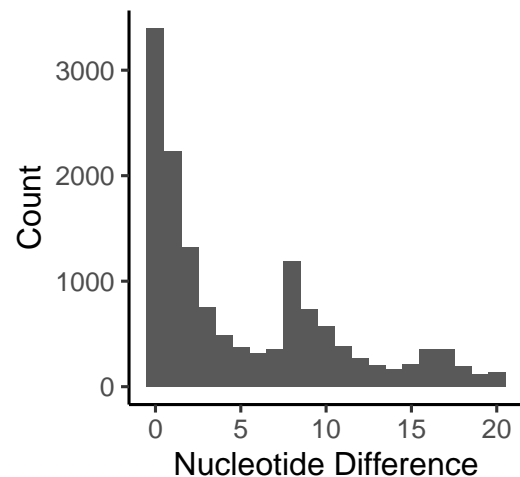
IGHV1-8*01

7995 sequences assigned
2013 (25.2%) exact matches, in which:
1863 unique CDR3
6 unique J



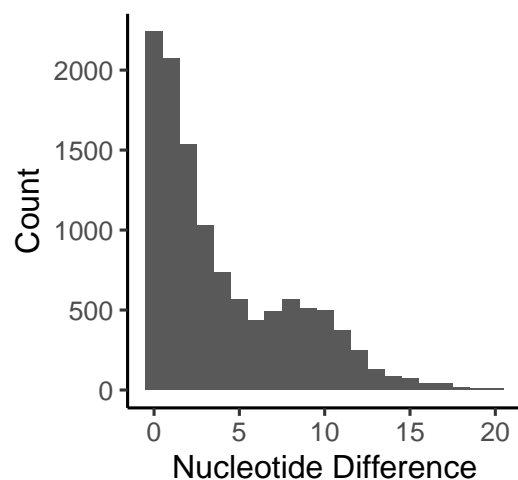
IGHV1-18*04

15040 sequences assigned
3396 (22.6%) exact matches, in which:
3125 unique CDR3
6 unique J



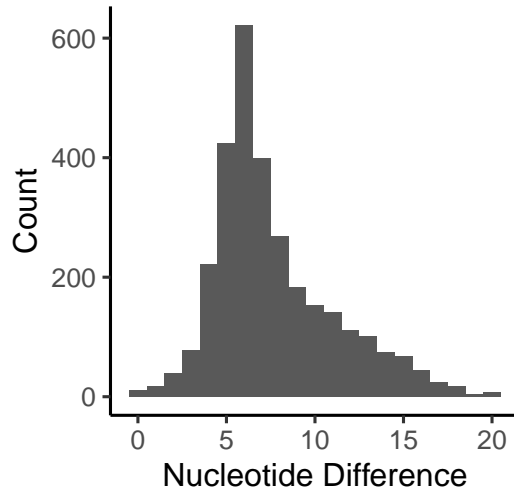
IGHV1-2*04

11714 sequences assigned
2240 (19.1%) exact matches, in which:
2000 unique CDR3
6 unique J



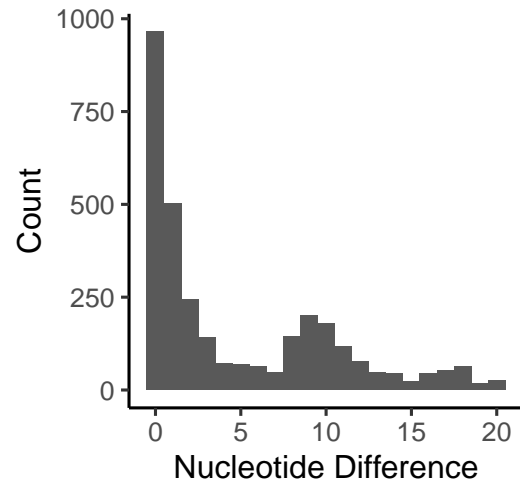
IGHV1-8*02

3031 sequences assigned
11 (0.4%) exact matches, in which:
11 unique CDR3
4 unique J



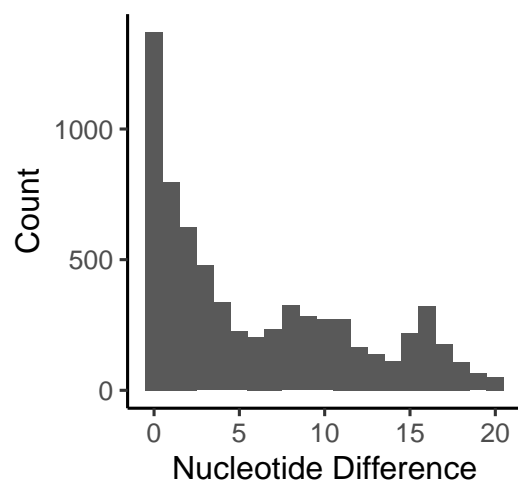
IGHV1-24*01

3247 sequences assigned
965 (29.7%) exact matches, in which:
902 unique CDR3
6 unique J



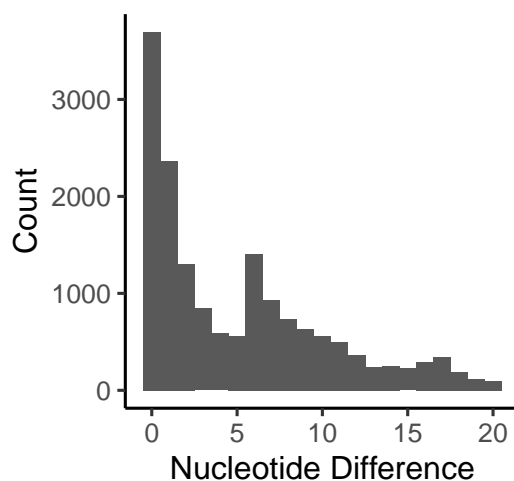
IGHV1-3*01_05

6999 sequences assigned
1371 (19.6%) exact matches, in which:
1235 unique CDR3
6 unique J



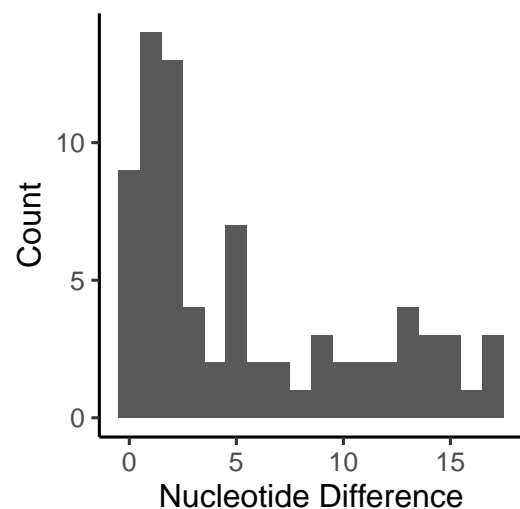
IGHV1-18*01

17307 sequences assigned
3695 (21.3%) exact matches, in which:
3370 unique CDR3
6 unique J



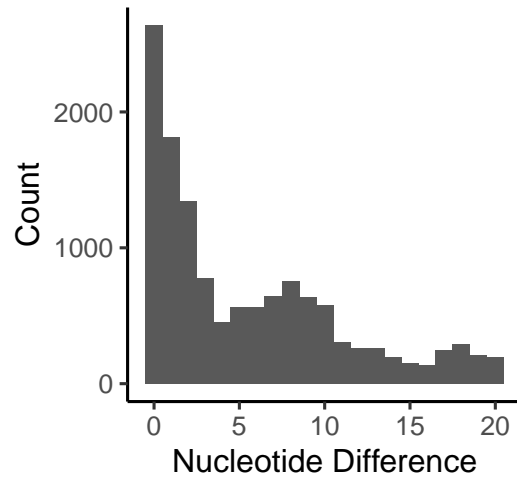
IGHV1-45*02

77 sequences assigned
9 (11.7%) exact matches, in which:
8 unique CDR3
3 unique J



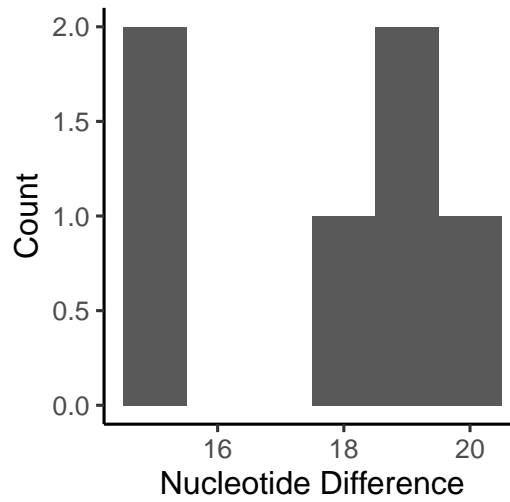
IGHV1-46*01

14604 sequences assigned
2637 (18.1%) exact matches, in which:
2443 unique CDR3
6 unique J



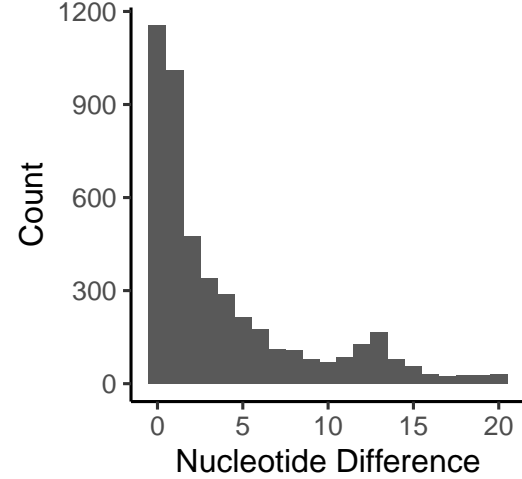
IGHV1-69-2*01

9 sequences assigned
No exact matches.



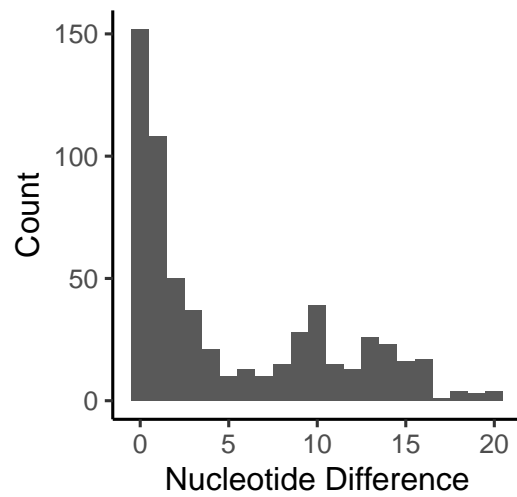
IGHV2-5*02

4930 sequences assigned
1155 (23.4%) exact matches, in which:
1032 unique CDR3
6 unique J



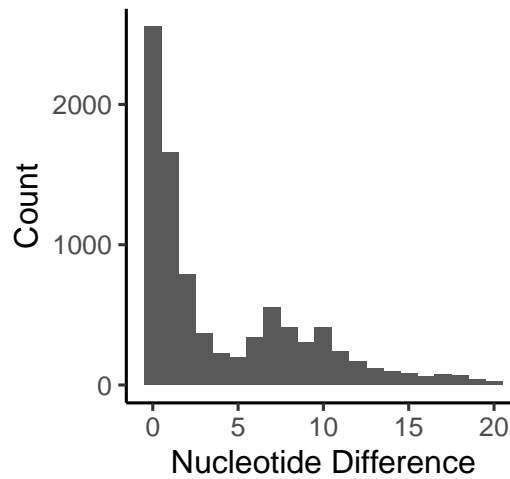
IGHV1-58*02

610 sequences assigned
152 (24.9%) exact matches, in which:
140 unique CDR3
5 unique J



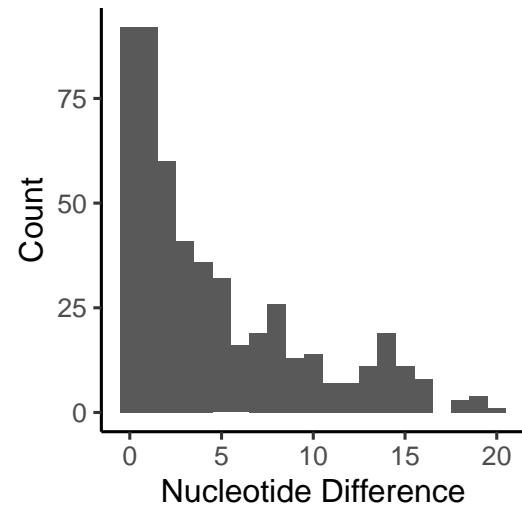
IGHV1-69*04_09

9769 sequences assigned
2554 (26.1%) exact matches, in which:
2419 unique CDR3
6 unique J



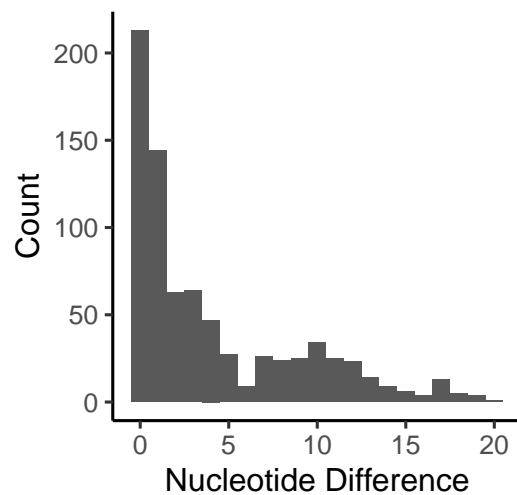
IGHV2-26*01

1098 sequences assigned
92 (8.4%) exact matches, in which:
86 unique CDR3
6 unique J



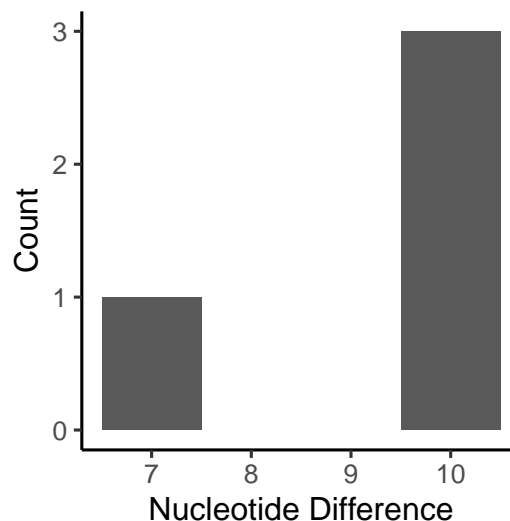
IGHV1-58*01_03

782 sequences assigned
213 (27.2%) exact matches, in which:
201 unique CDR3
6 unique J



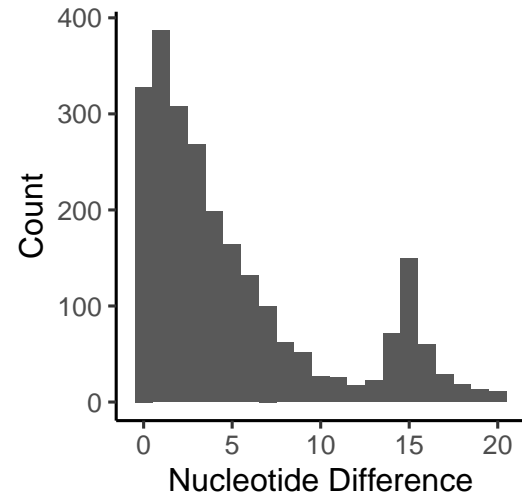
IGHV1-NL1*01

4 sequences assigned
No exact matches.



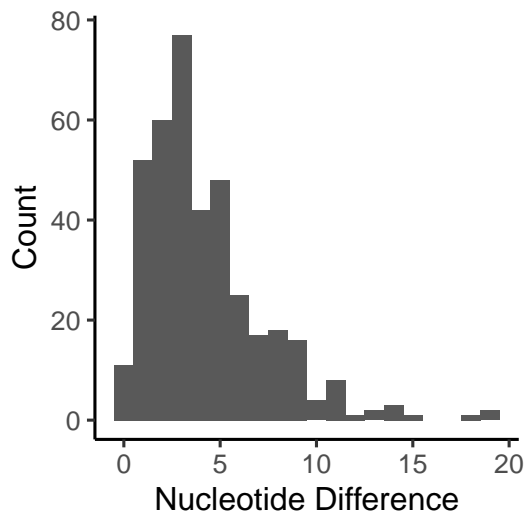
IGHV2-70*01

2469 sequences assigned
328 (13.3%) exact matches, in which:
296 unique CDR3
5 unique J



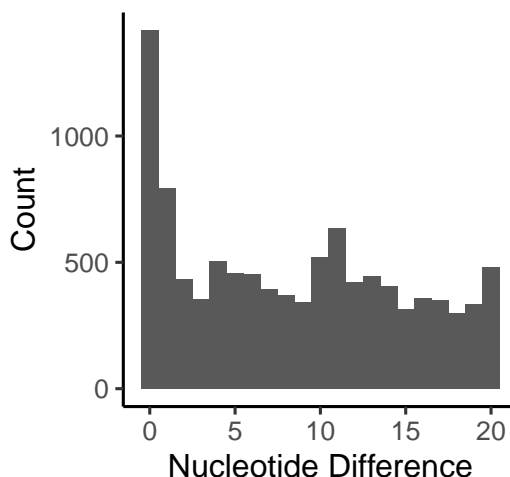
IGHV2-70*12

394 sequences assigned
11 (2.8%) exact matches, in which:
11 unique CDR3
4 unique J



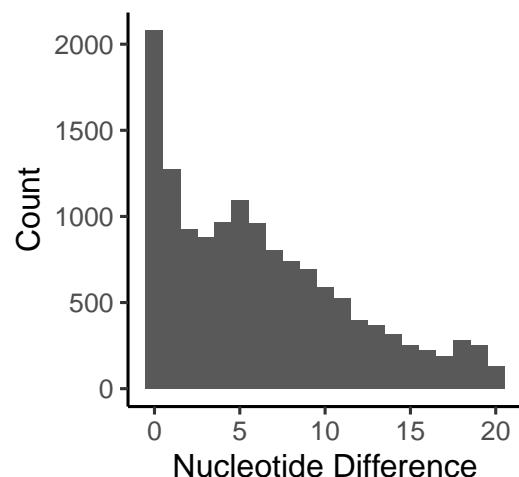
IGHV3-7*01

11363 sequences assigned
1418 (12.5%) exact matches, in which:
1119 unique CDR3
6 unique J



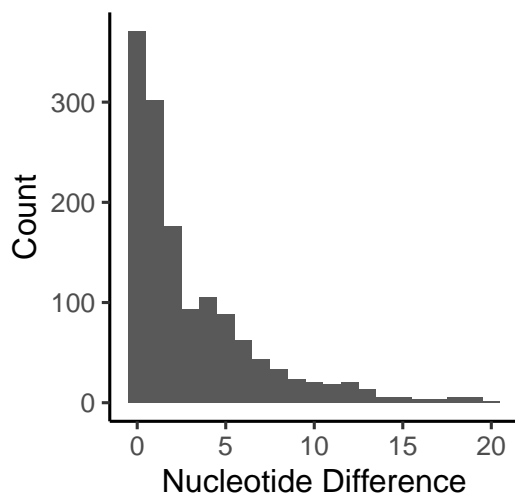
IGHV3-9*01

14506 sequences assigned
2080 (14.3%) exact matches, in which:
1500 unique CDR3
6 unique J



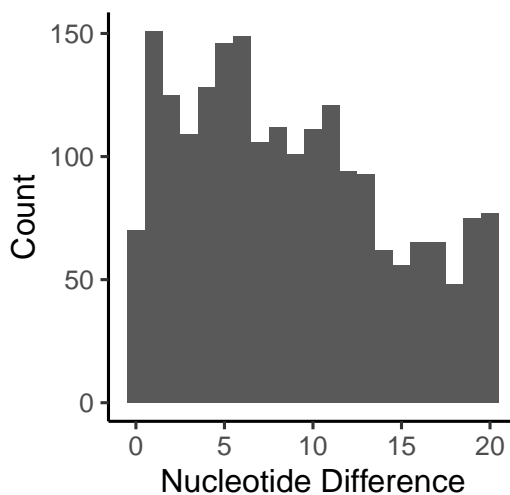
IGHV2-70*11_15

1418 sequences assigned
371 (26.2%) exact matches, in which:
320 unique CDR3
6 unique J



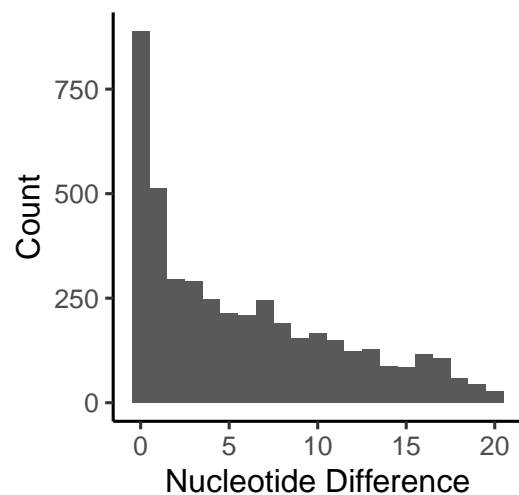
IGHV3-7*03

2895 sequences assigned
70 (2.4%) exact matches, in which:
67 unique CDR3
6 unique J



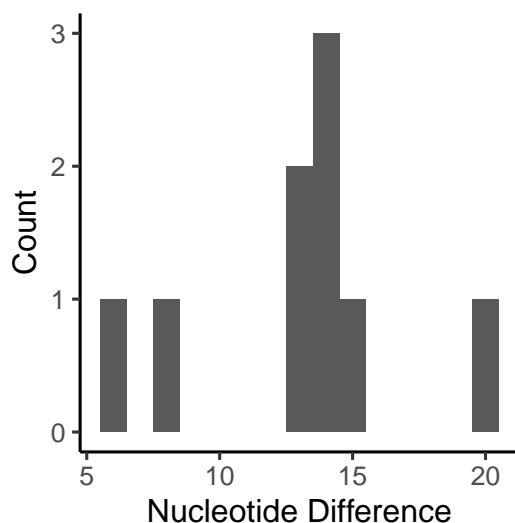
IGHV3-11*01

4573 sequences assigned
889 (19.4%) exact matches, in which:
705 unique CDR3
6 unique J



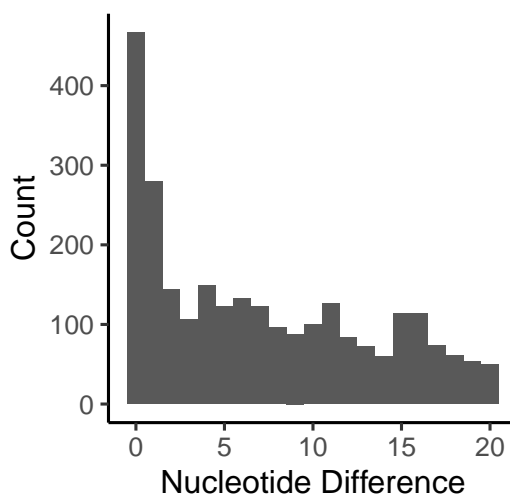
IGHV2-70D*04

9 sequences assigned
No exact matches.



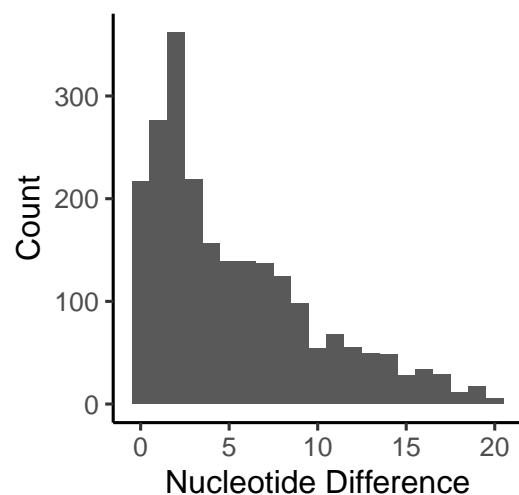
IGHV3-7*04

3445 sequences assigned
467 (13.6%) exact matches, in which:
353 unique CDR3
6 unique J



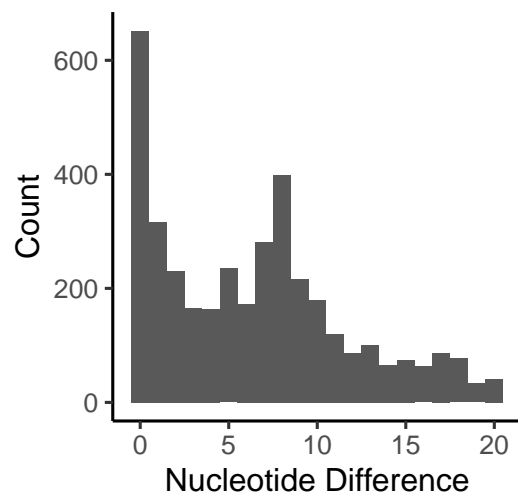
IGHV3-11*04

2333 sequences assigned
217 (9.3%) exact matches, in which:
214 unique CDR3
6 unique J



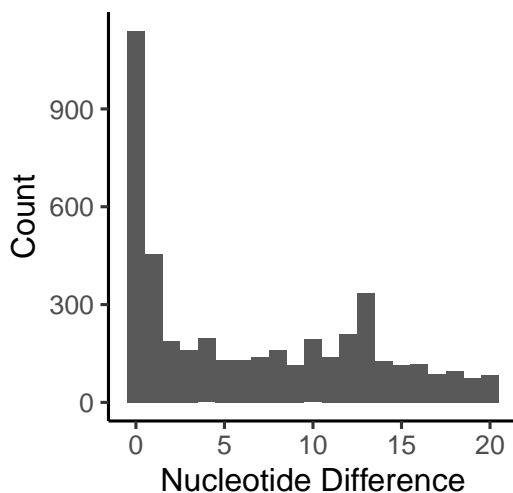
IGHV3-11*06

4051 sequences assigned
652 (16.1%) exact matches, in which:
534 unique CDR3
6 unique J



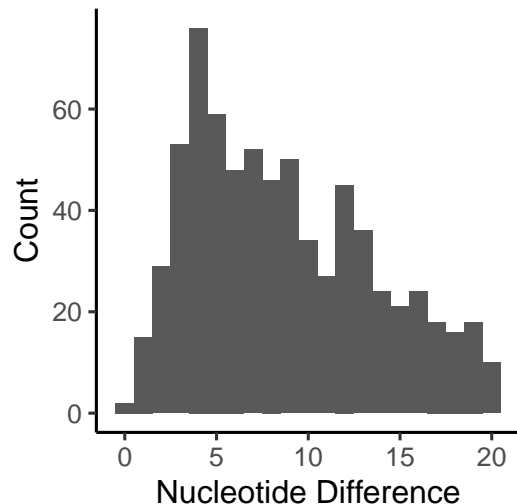
IGHV3-15*01_02

6107 sequences assigned
1140 (18.7%) exact matches, in which:
875 unique CDR3
6 unique J



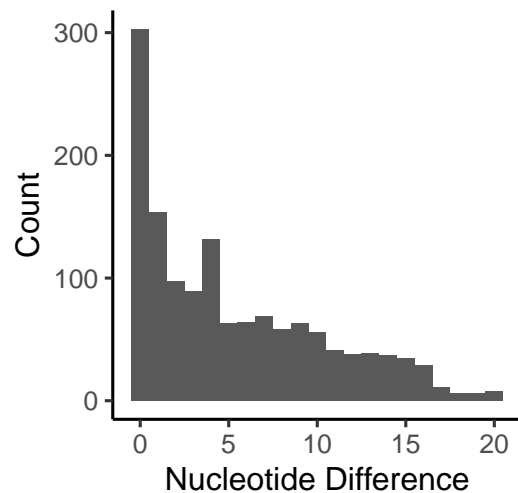
IGHV3-20*03_04

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



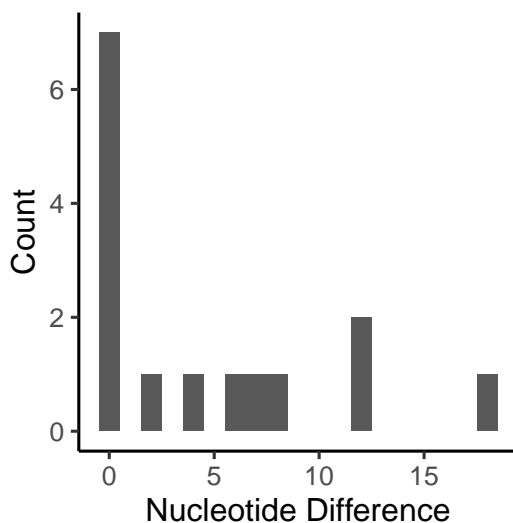
IGHV3-13*01

1431 sequences assigned
303 (21.2%) exact matches, in which:
222 unique CDR3
6 unique J



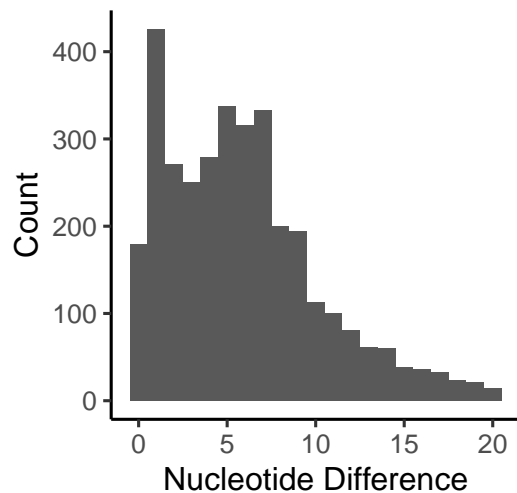
IGHV3-19*01

15 sequences assigned
7 (46.7%) exact matches, in which:
5 unique CDR3
3 unique J



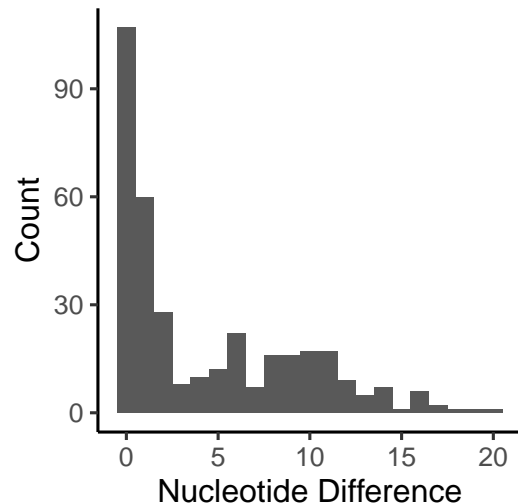
IGHV3-21*04

3543 sequences assigned
179 (5.1%) exact matches, in which:
176 unique CDR3
6 unique J



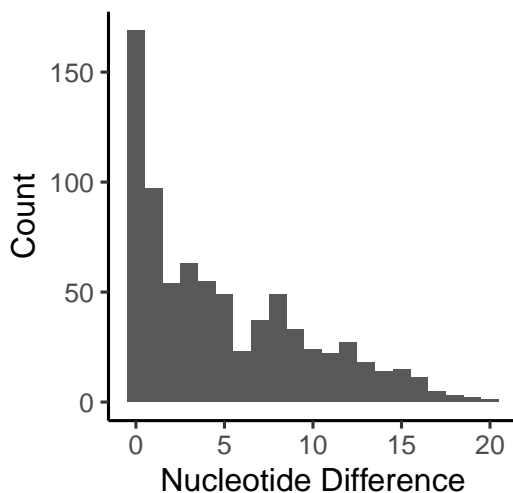
IGHV3-13*05

355 sequences assigned
107 (30.1%) exact matches, in which:
79 unique CDR3
5 unique J



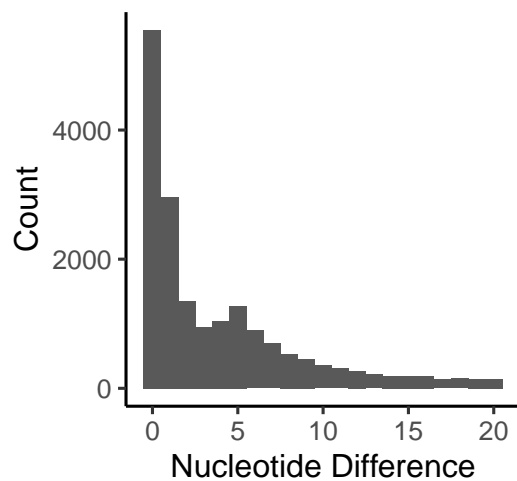
IGHV3-20*01_02

780 sequences assigned
169 (21.7%) exact matches, in which:
129 unique CDR3
6 unique J



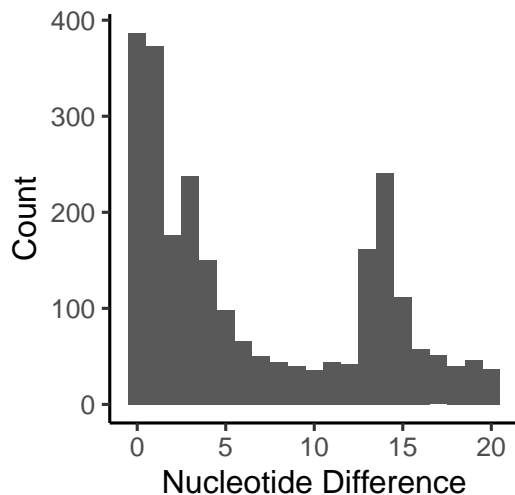
IGHV3-21*01_02

20025 sequences assigned
5549 (27.7%) exact matches, in which:
4120 unique CDR3
6 unique J



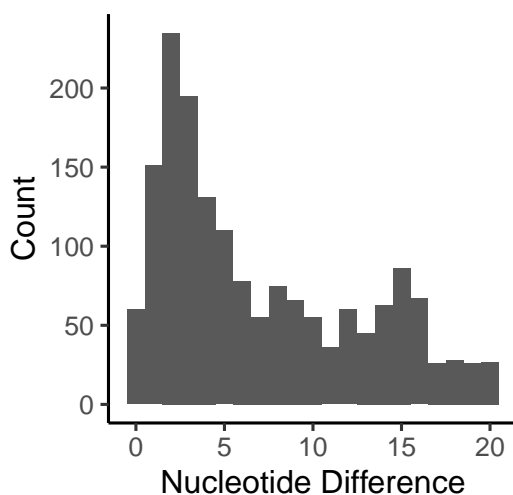
IGHV3–30*03

2850 sequences assigned
387 (13.6%) exact matches, in which:
368 unique CDR3
6 unique J



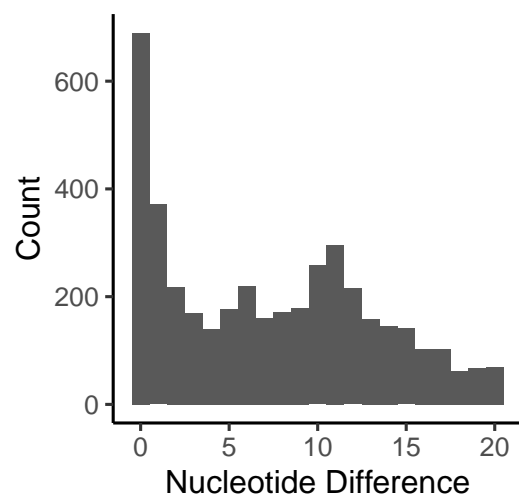
IGHV3–33*06

1768 sequences assigned
60 (3.4%) exact matches, in which:
58 unique CDR3
6 unique J



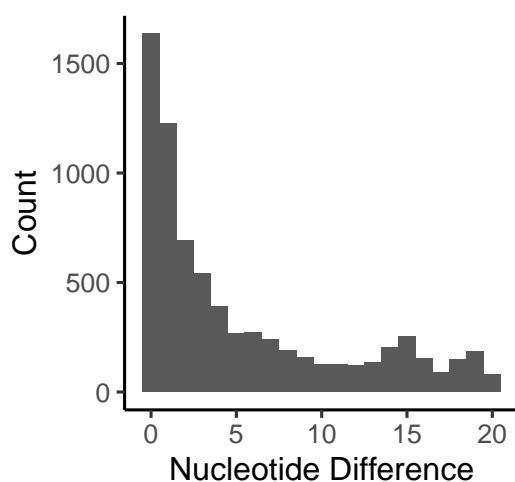
IGHV3–43*02

4763 sequences assigned
690 (14.5%) exact matches, in which:
511 unique CDR3
6 unique J



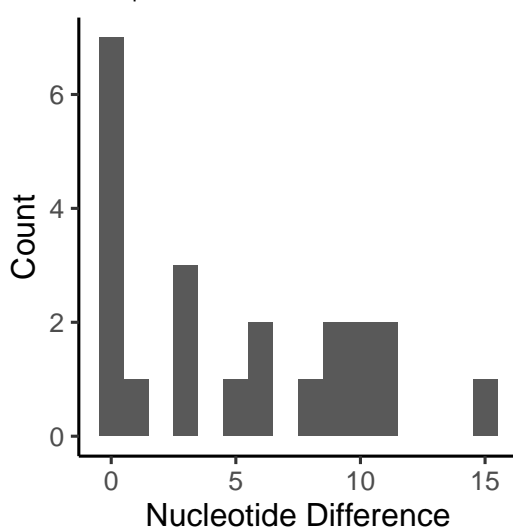
IGHV3–33*01

7777 sequences assigned
1636 (21%) exact matches, in which:
1336 unique CDR3
6 unique J



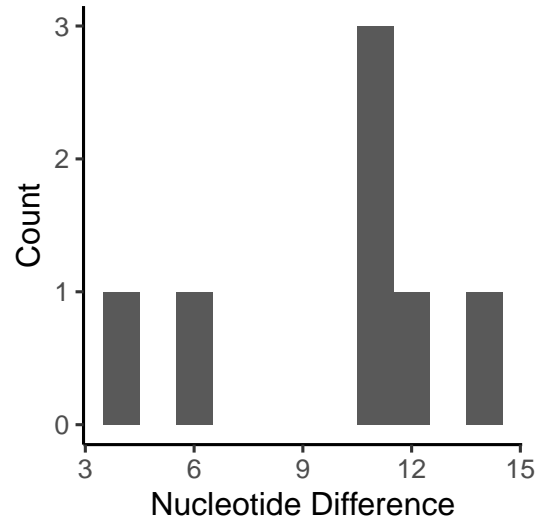
IGHV3–35*01

22 sequences assigned
7 (31.8%) exact matches, in which:
6 unique CDR3
3 unique J



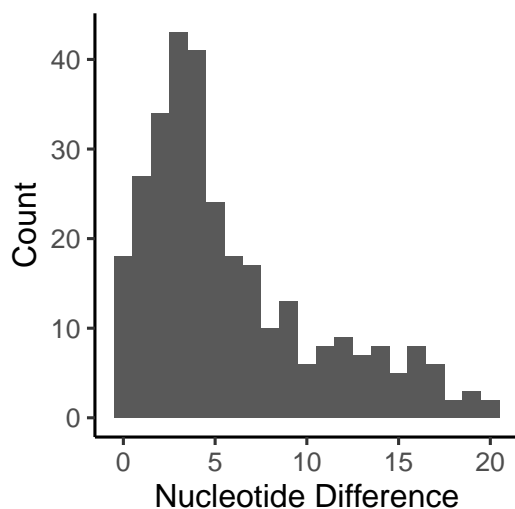
IGHV3–47*01

7 sequences assigned
No exact matches.



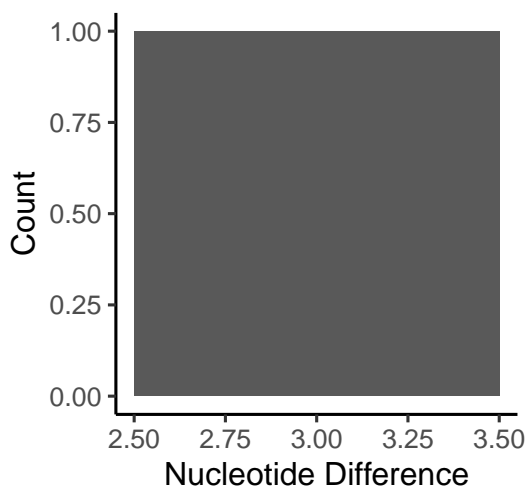
IGHV3–33*05

319 sequences assigned
18 (5.6%) exact matches, in which:
18 unique CDR3
4 unique J



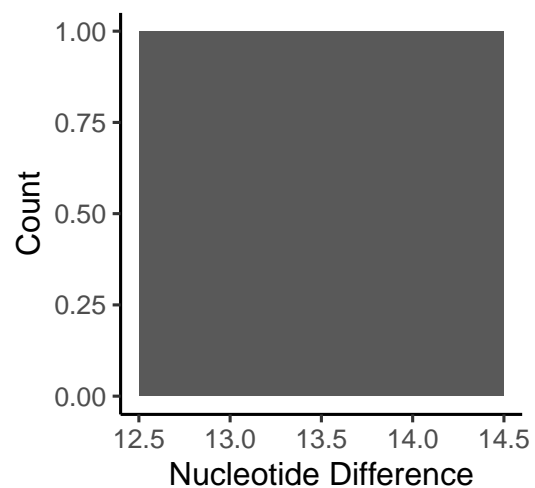
IGHV3–38–3*01

1 sequences assigned
No exact matches.



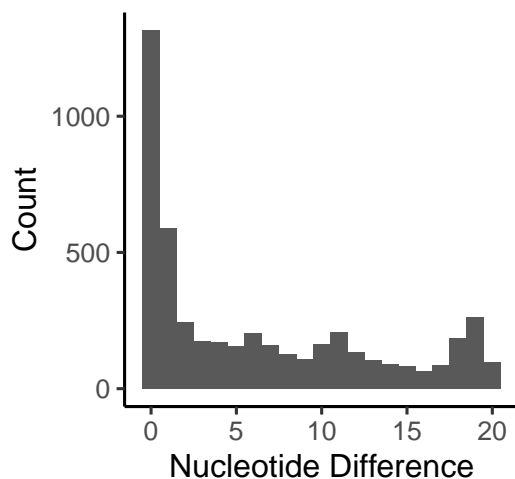
IGHV3–47*02

2 sequences assigned
No exact matches.



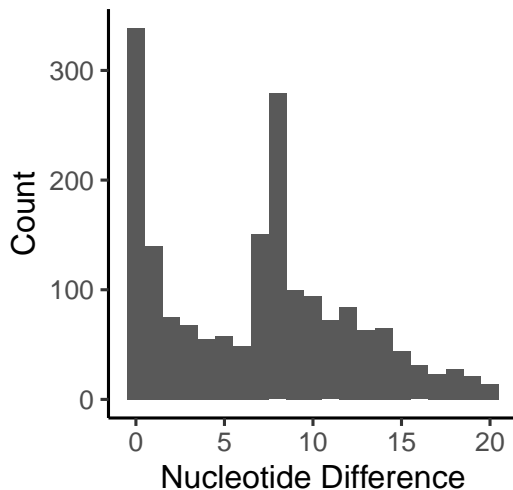
IGHV3-48*03

5116 sequences assigned
1315 (25.7%) exact matches, in which:
989 unique CDR3
6 unique J



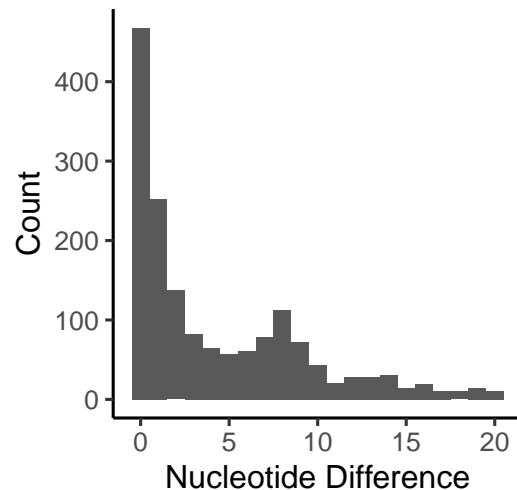
IGHV3-49*04

1951 sequences assigned
339 (17.4%) exact matches, in which:
262 unique CDR3
6 unique J



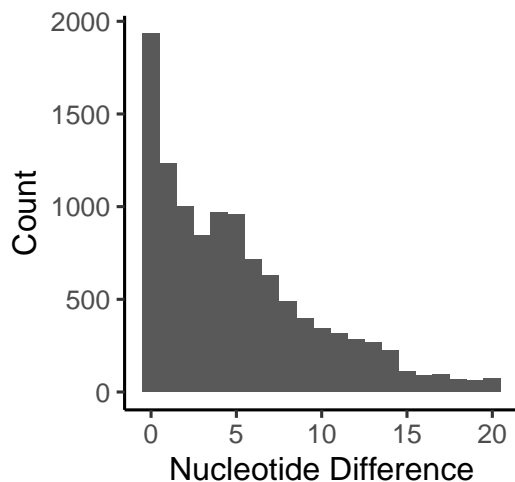
IGHV3-53*04

1670 sequences assigned
468 (28%) exact matches, in which:
359 unique CDR3
6 unique J



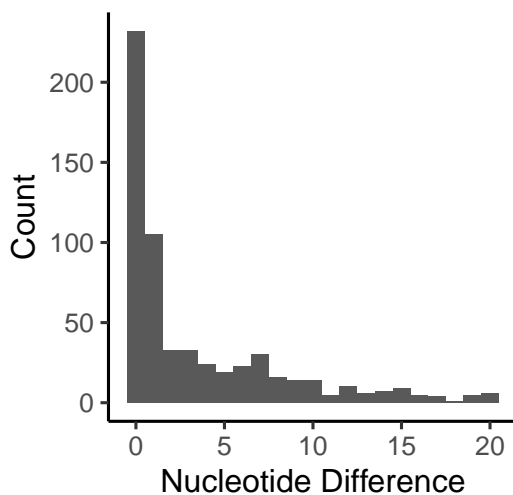
IGHV3-48*04

11535 sequences assigned
1933 (16.8%) exact matches, in which:
1528 unique CDR3
6 unique J



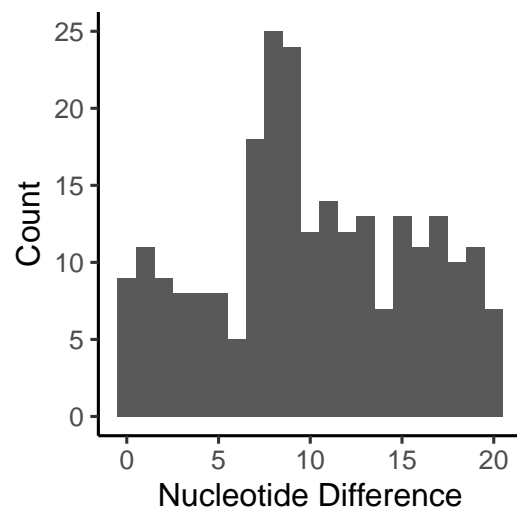
IGHV3-49*03_05

624 sequences assigned
232 (37.2%) exact matches, in which:
181 unique CDR3
6 unique J



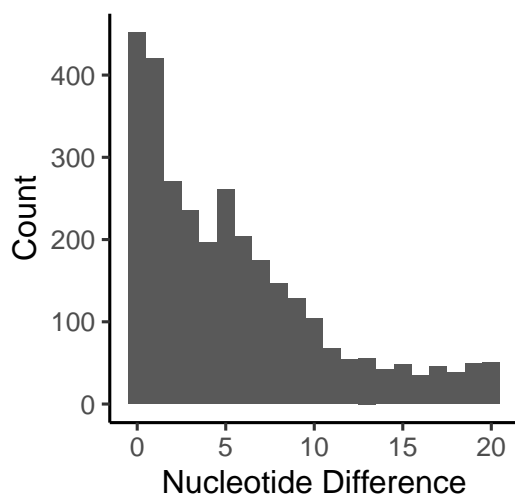
IGHV3-53*05

317 sequences assigned
9 (2.8%) exact matches, in which:
9 unique CDR3
4 unique J



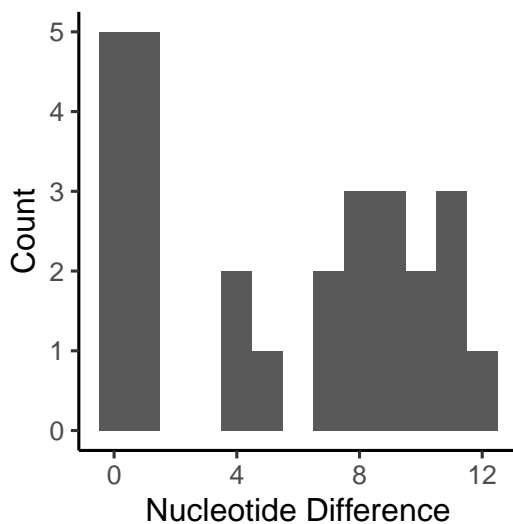
IGHV3-48*03_T303G

3368 sequences assigned
452 (13.4%) exact matches, in which:
445 unique CDR3
6 unique J



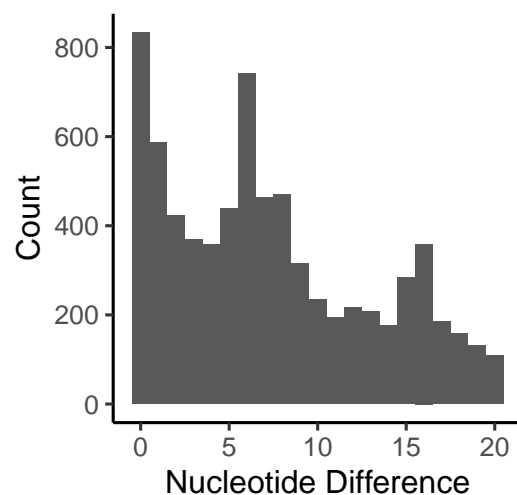
IGHV3-52*01_03

27 sequences assigned
5 (18.5%) exact matches, in which:
4 unique CDR3
2 unique J



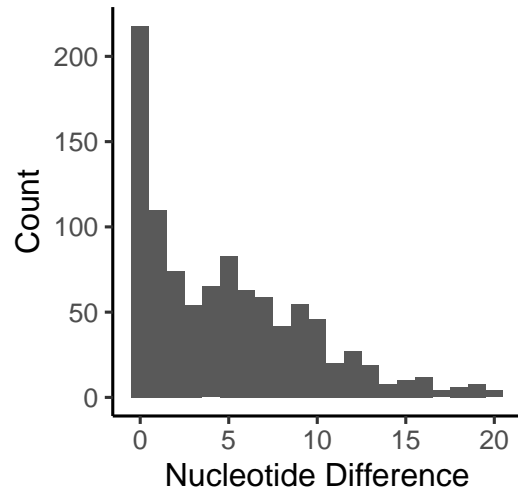
IGHV3-53*01_02

9265 sequences assigned
834 (9%) exact matches, in which:
647 unique CDR3
6 unique J



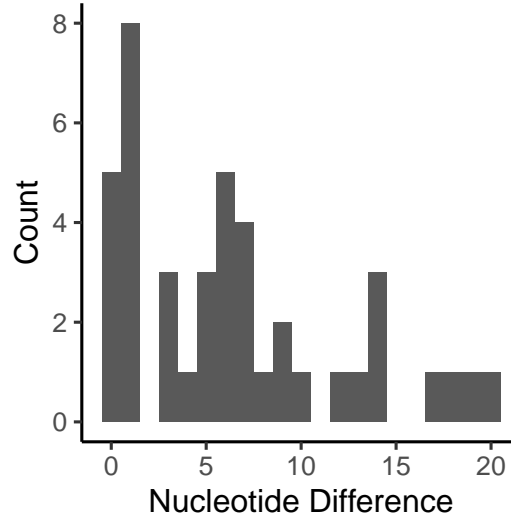
IGHV3-64*01

1656 sequences assigned
218 (13.2%) exact matches, in which:
155 unique CDR3
6 unique J



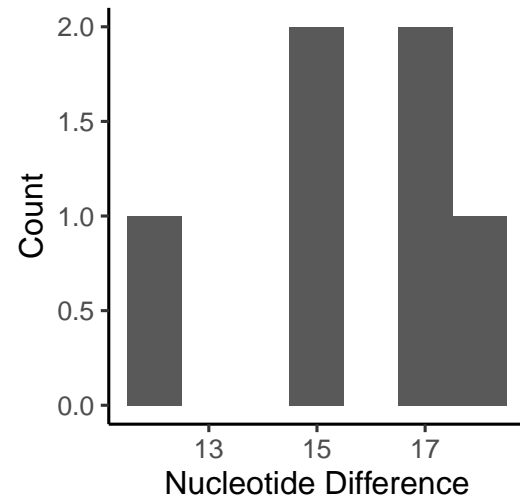
IGHV3-66*03

45 sequences assigned
5 (11.1%) exact matches, in which:
5 unique CDR3
2 unique J



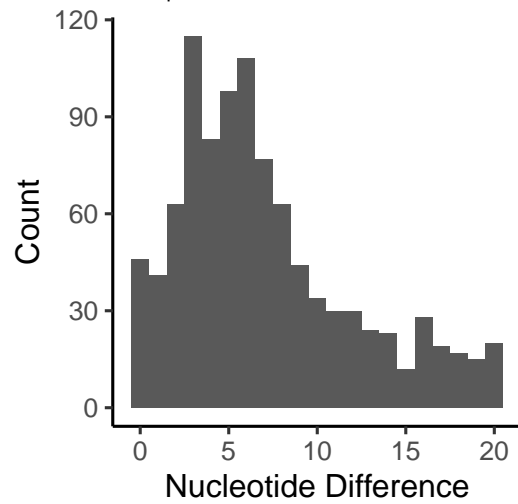
IGHV3-71*01_04

10 sequences assigned
No exact matches.



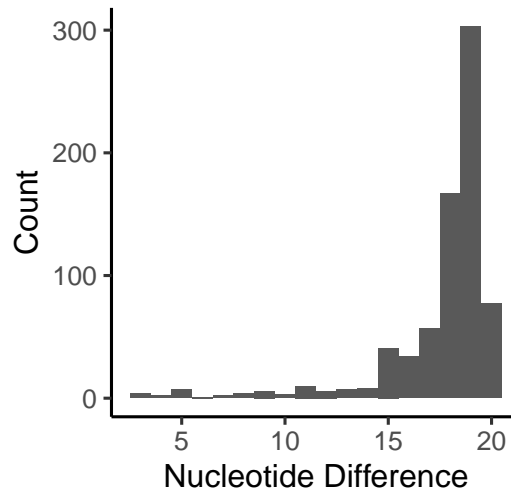
IGHV3-64*04

1074 sequences assigned
46 (4.3%) exact matches, in which:
46 unique CDR3
5 unique J



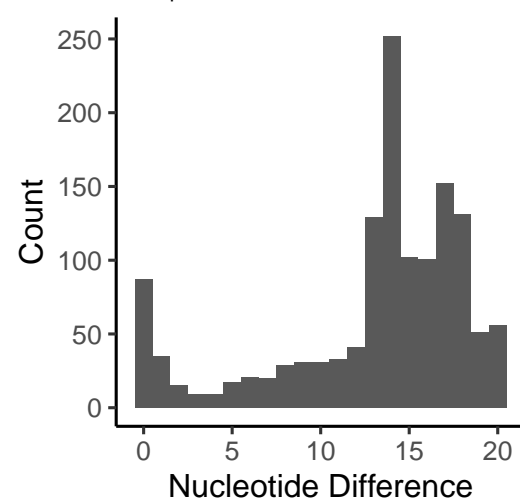
IGHV3-69-1*01

877 sequences assigned
No exact matches.



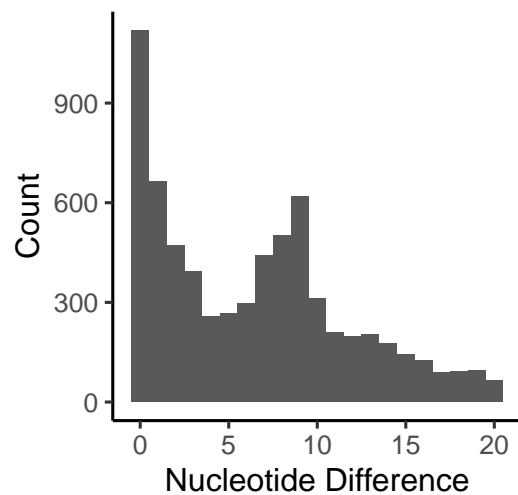
IGHV3-72*01

1967 sequences assigned
87 (4.4%) exact matches, in which:
65 unique CDR3
6 unique J



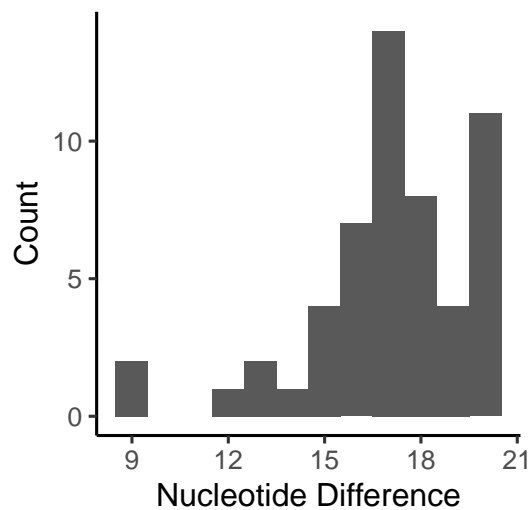
IGHV3-66*01

7723 sequences assigned
1119 (14.5%) exact matches, in which:
852 unique CDR3
6 unique J



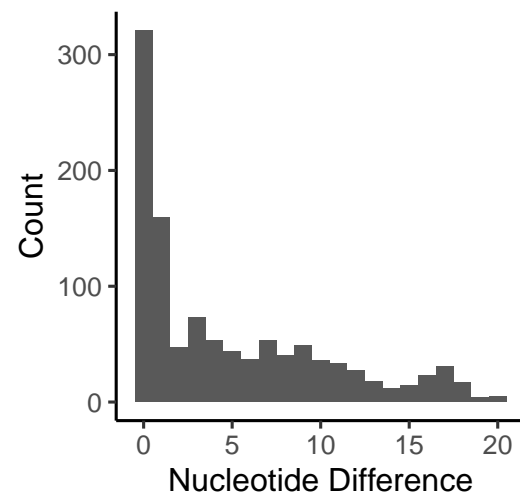
IGHV3-69-1*02

94 sequences assigned
No exact matches.



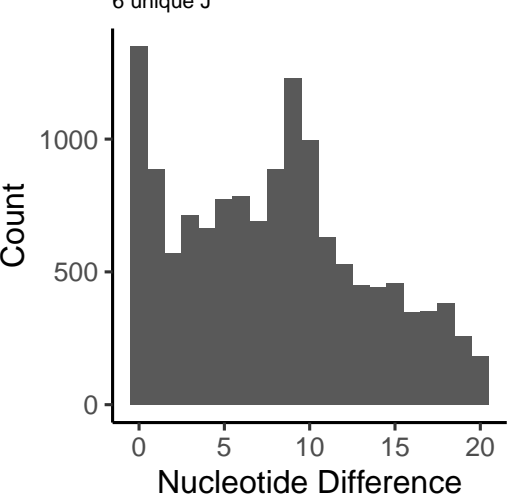
IGHV3-73*01_02

1160 sequences assigned
321 (27.7%) exact matches, in which:
253 unique CDR3
6 unique J



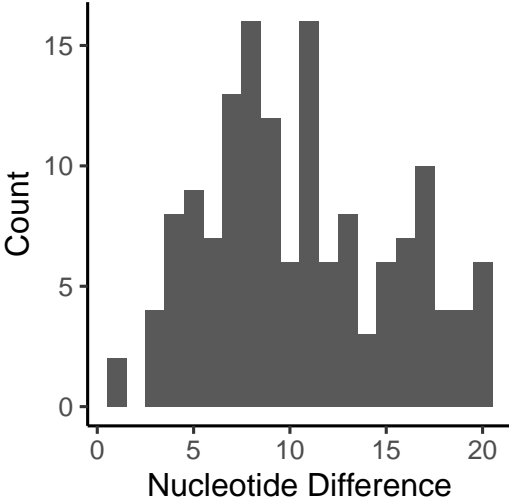
IGHV3-74*01_02

14986 sequences assigned
1349 (9%) exact matches, in which:
1009 unique CDR3
6 unique J



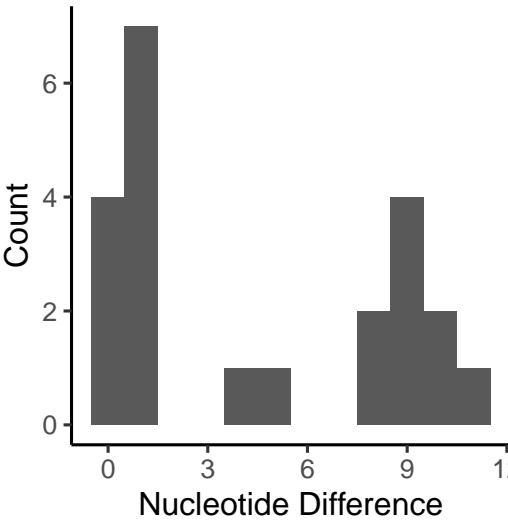
IGHV3-NL1*01

185 sequences assigned
No exact matches.



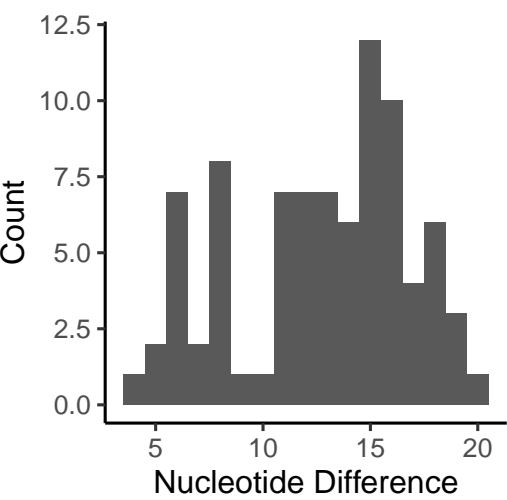
IGHV4-28*01_07

23 sequences assigned
4 (17.4%) exact matches, in which:
3 unique CDR3
2 unique J



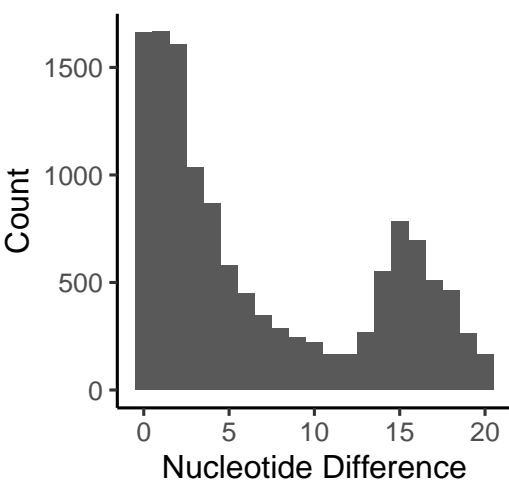
IGHV3-43D*04

93 sequences assigned
No exact matches.



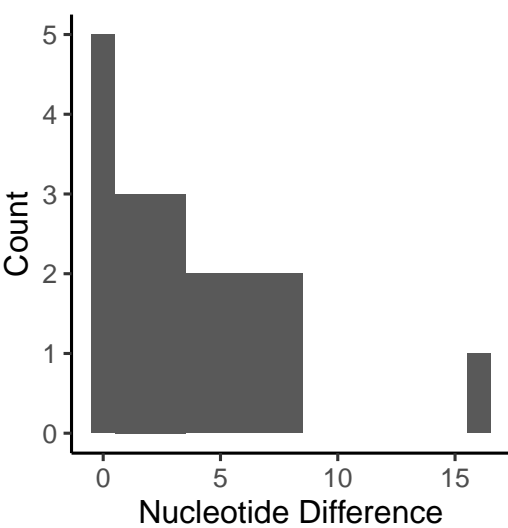
IGHV4-4*07

18065 sequences assigned
1664 (9.2%) exact matches, in which:
1489 unique CDR3
6 unique J



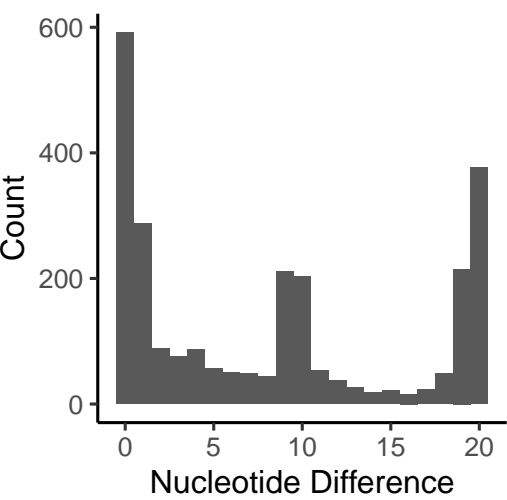
IGHV4-28*02_05

28 sequences assigned
5 (17.9%) exact matches, in which:
4 unique CDR3
4 unique J



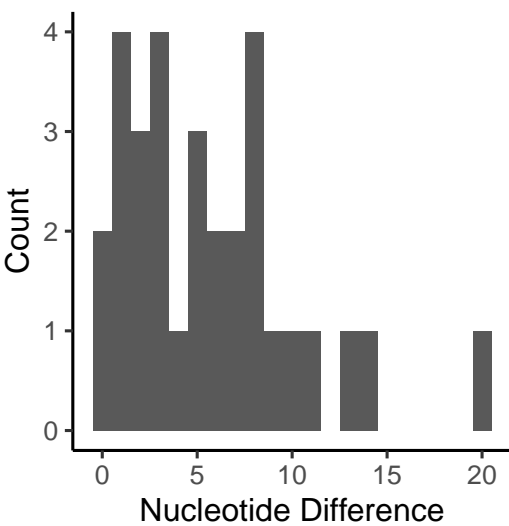
IGHV3-64D*09

3096 sequences assigned
592 (19.1%) exact matches, in which:
417 unique CDR3
6 unique J



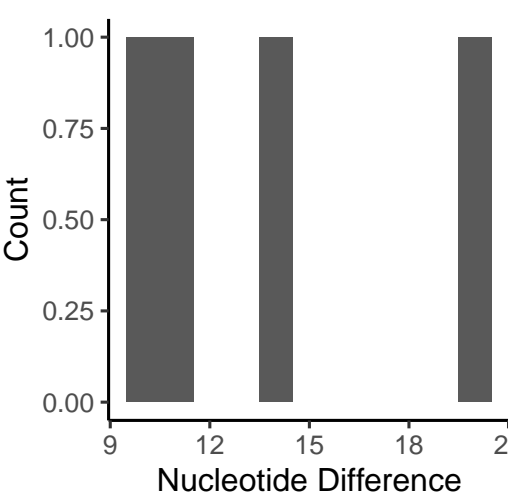
IGHV4-28*03

33 sequences assigned
2 (6.1%) exact matches, in which:
2 unique CDR3
1 unique J



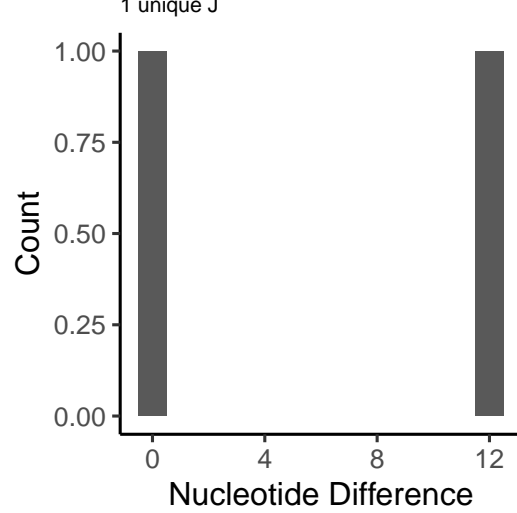
IGHV4-30-2*01

7 sequences assigned
No exact matches.



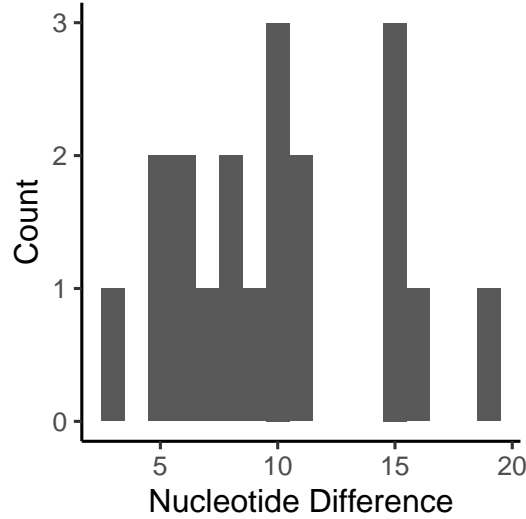
IGHV4-30-4*01

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



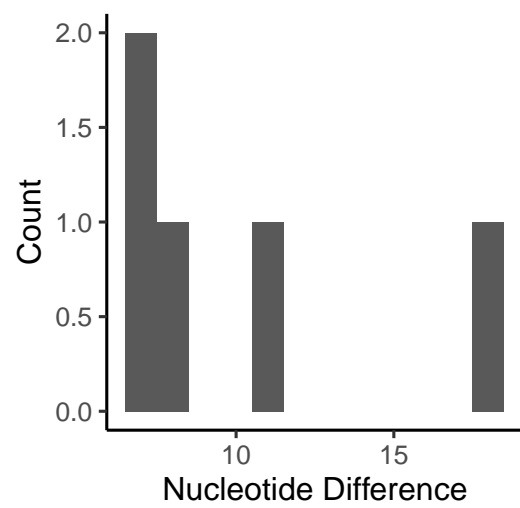
IGHV4-30-4*08

22 sequences assigned
No exact matches.



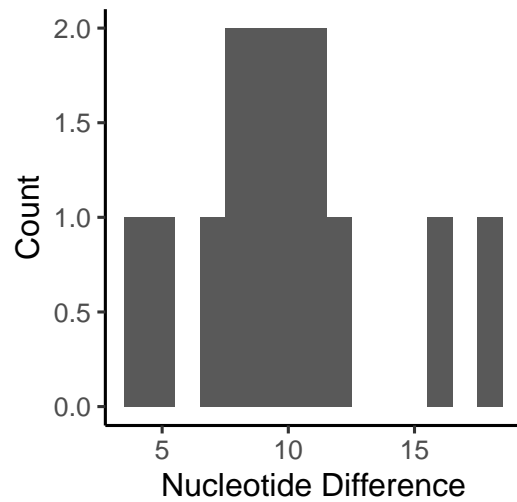
IGHV4-38-2*01

8 sequences assigned
No exact matches.



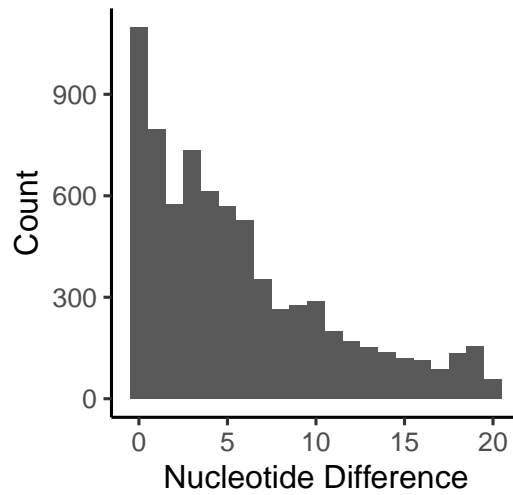
IGHV4-30-2*03

19 sequences assigned
No exact matches.



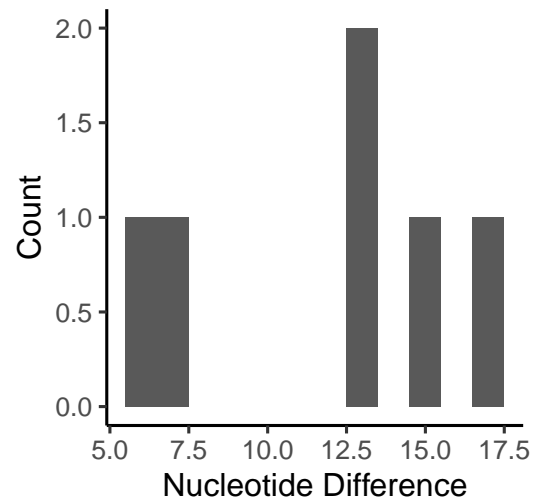
IGHV4-31*03_04

8443 sequences assigned
1099 (13%) exact matches, in which:
1026 unique CDR3
6 unique J



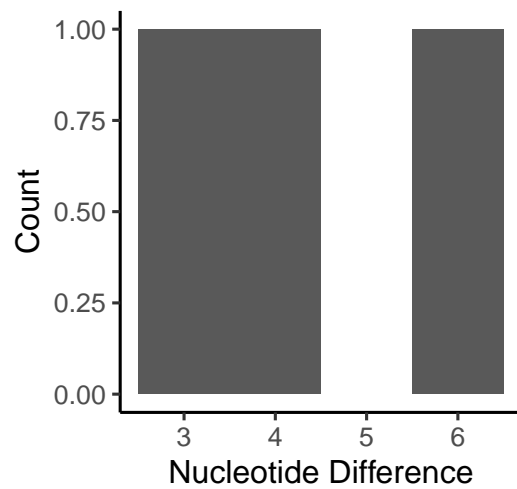
IGHV4-38-2*02

41 sequences assigned
No exact matches.



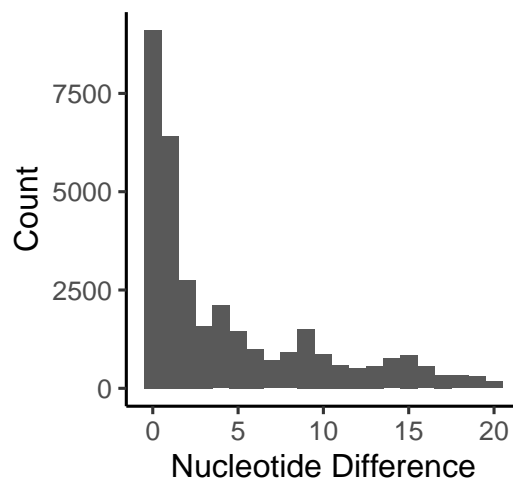
IGHV4-30-2*04

3 sequences assigned
No exact matches.



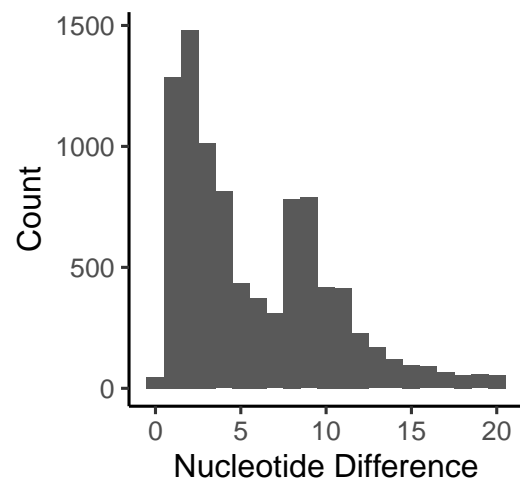
IGHV4-34*01_02

35133 sequences assigned
9111 (25.9%) exact matches, in which:
7655 unique CDR3
6 unique J



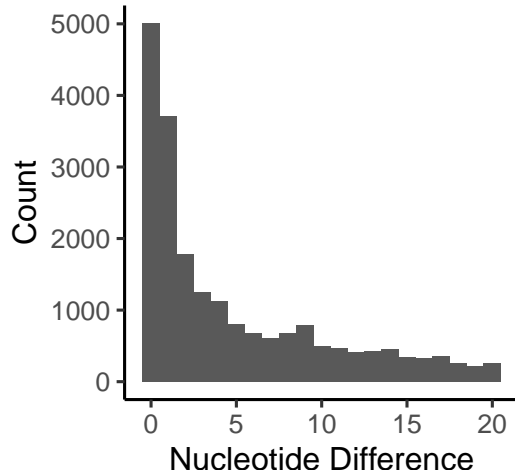
IGHV4-39*07

9525 sequences assigned
48 (0.5%) exact matches, in which:
47 unique CDR3
6 unique J



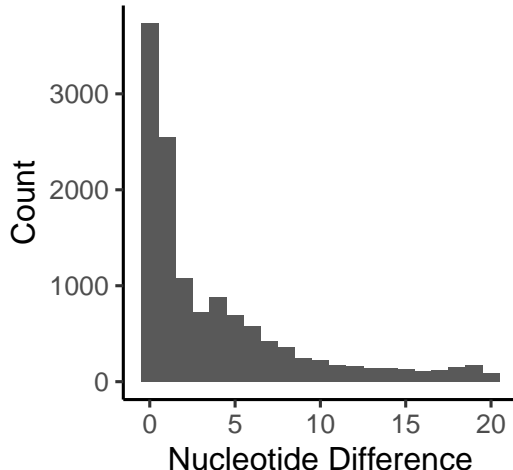
IGHV4-39*01_05

24719 sequences assigned
5006 (20.3%) exact matches, in which:
4294 unique CDR3
6 unique J



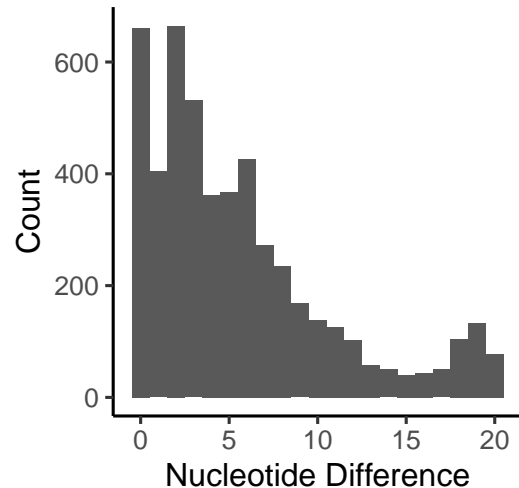
IGHV4-59*01_07

14539 sequences assigned
3734 (25.7%) exact matches, in which:
3412 unique CDR3
6 unique J



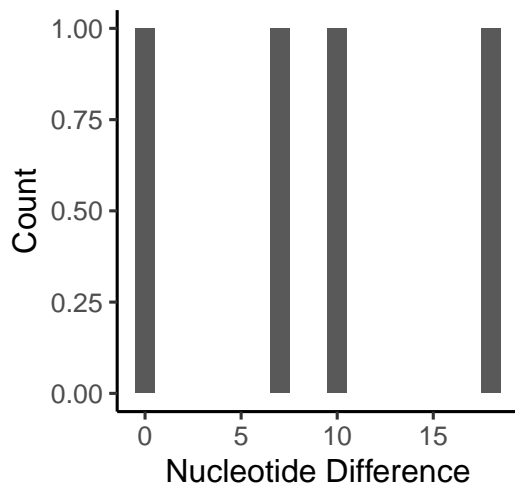
IGHV4-61*01

5250 sequences assigned
661 (12.6%) exact matches, in which:
644 unique CDR3
6 unique J



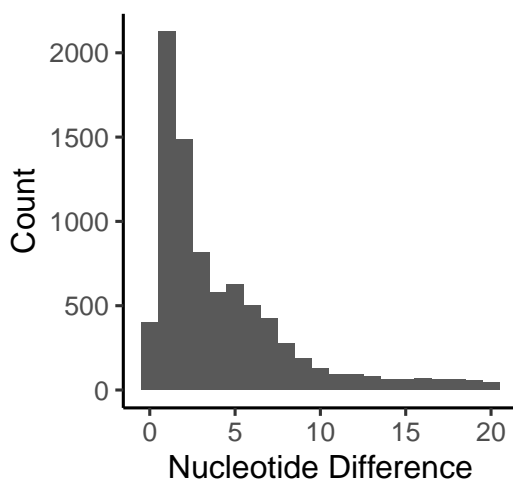
IGHV4-55*01_05

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
0 unique J



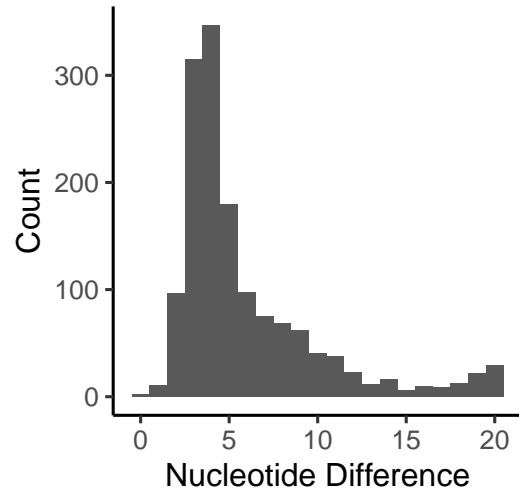
IGHV4-59*12

9001 sequences assigned
402 (4.5%) exact matches, in which:
395 unique CDR3
6 unique J



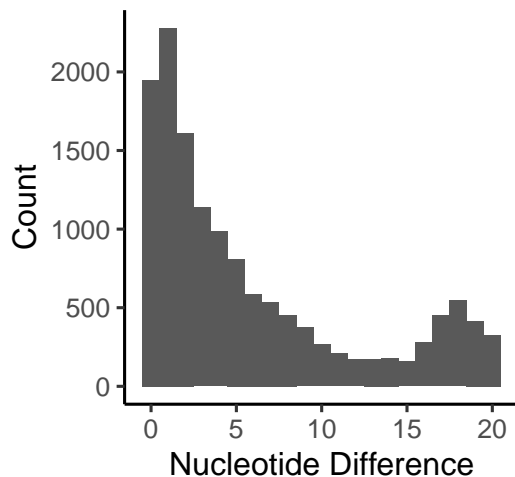
IGHV4-61*05

1604 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



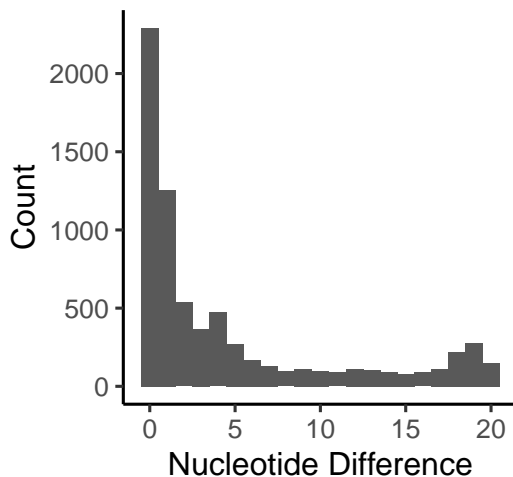
IGHV4-59*08

17313 sequences assigned
1948 (11.3%) exact matches, in which:
1768 unique CDR3
6 unique J



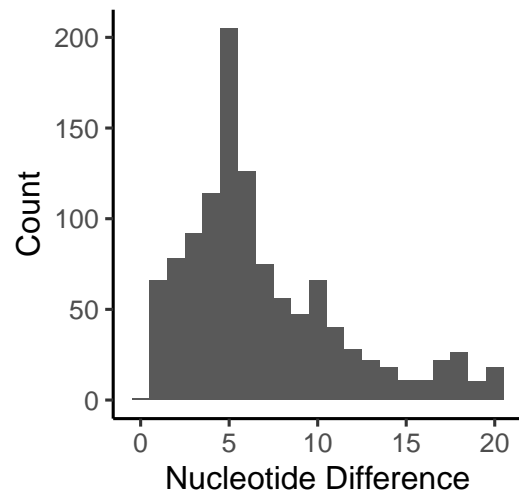
IGHV4-59*13

7723 sequences assigned
2291 (29.7%) exact matches, in which:
2120 unique CDR3
6 unique J



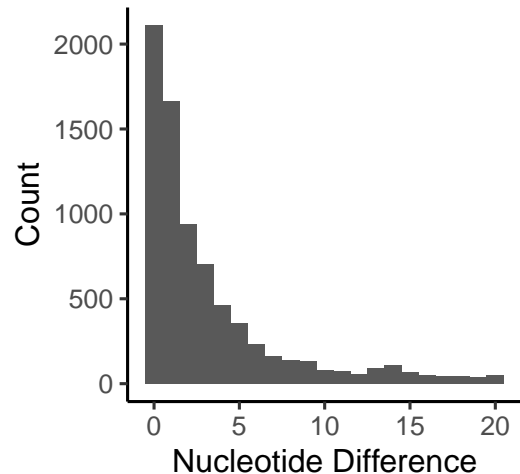
IGHV4-61*08

1209 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



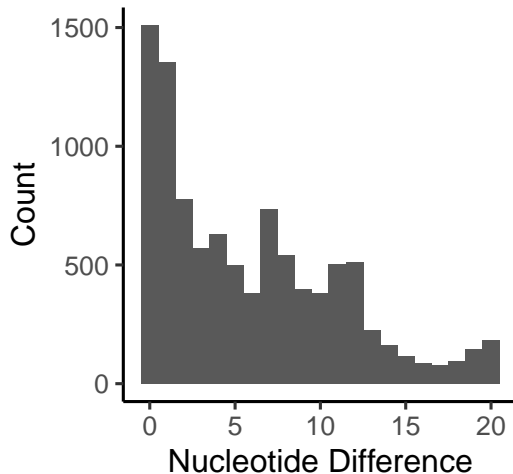
IGHV5-10-1*01_03

8261 sequences assigned
2110 (25.5%) exact matches, in which:
1609 unique CDR3
6 unique J



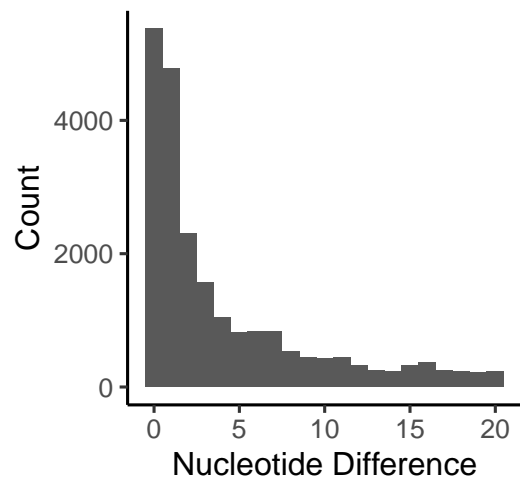
IGHV7-4-1*02

11687 sequences assigned
1509 (12.9%) exact matches, in which:
1341 unique CDR3
6 unique J



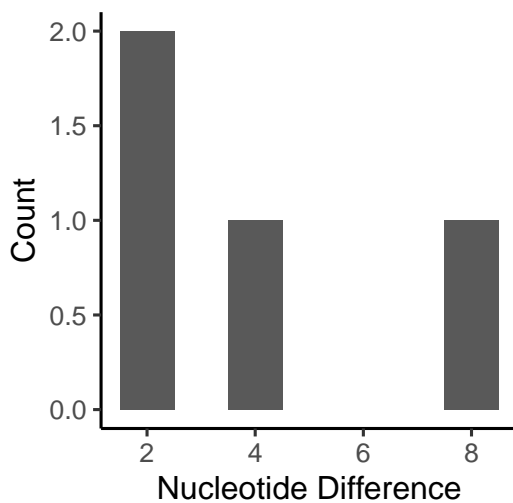
IGHV5-51*01_03

23391 sequences assigned
5375 (23%) exact matches, in which:
3716 unique CDR3
6 unique J



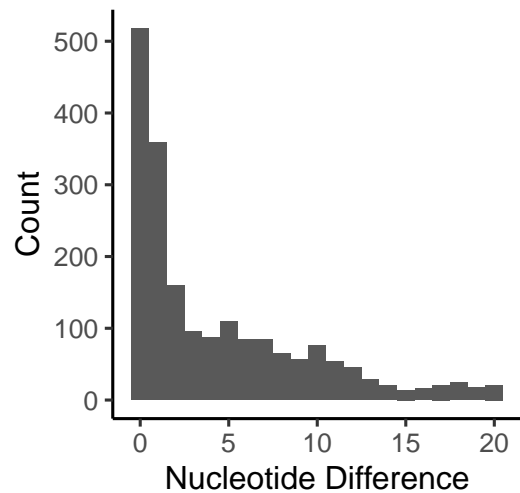
IGHV7-81*01

4 sequences assigned
No exact matches.



IGHV6-1*01_02

2005 sequences assigned
518 (25.8%) exact matches, in which:
477 unique CDR3
6 unique J





Novel sequence(s)IGHV1-69*01_12_13_G238AIGHV3-48*03_T303G are not listed in the genotype and will be ignored.