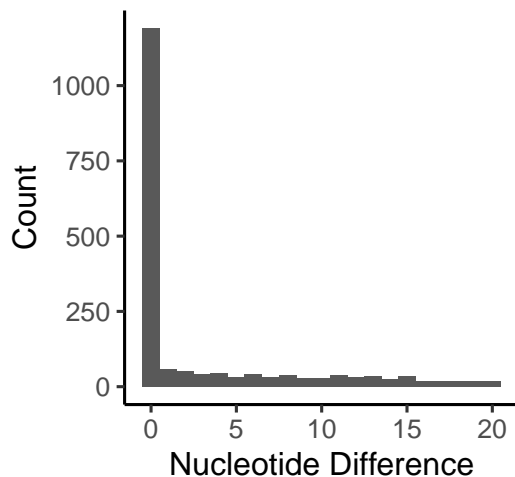


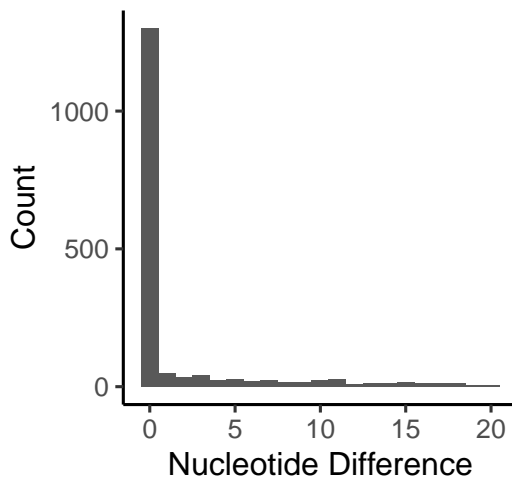
IGHV1-2*02

1953 sequences assigned
1190 (60.9%) exact matches, in which:
1187 unique CDR3
6 unique J



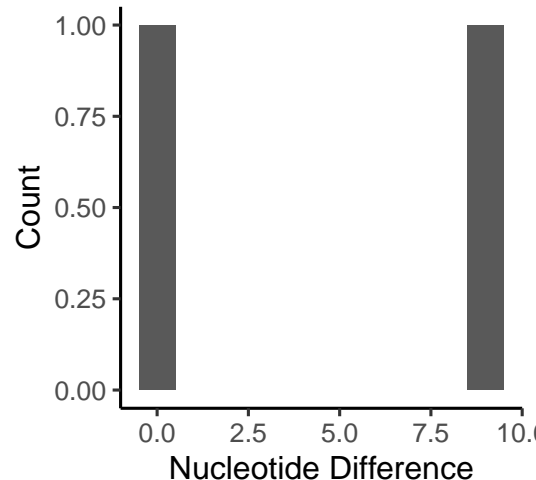
IGHV1-8*01

1740 sequences assigned
1300 (74.7%) exact matches, in which:
1299 unique CDR3
6 unique J



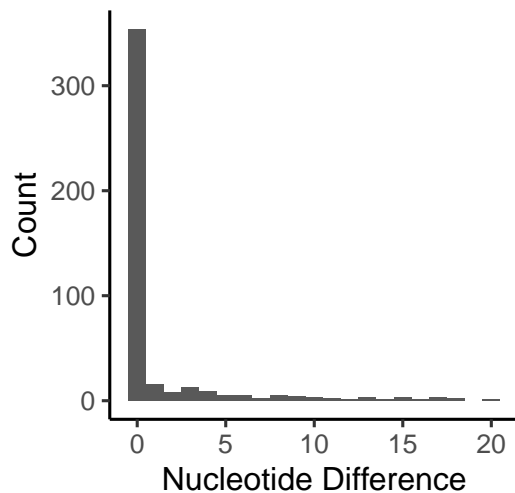
IGHV1-45*02

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



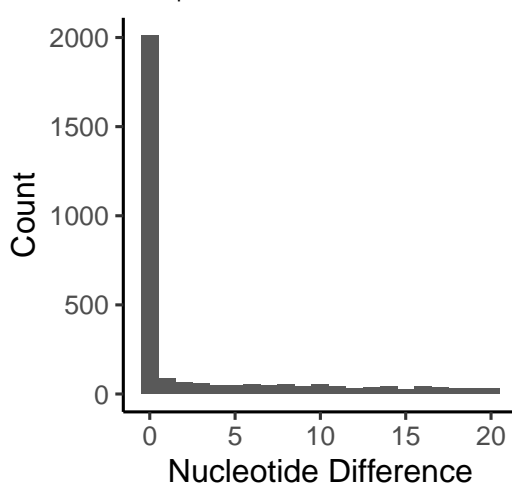
IGHV1-2*04

444 sequences assigned
354 (79.7%) exact matches, in which:
354 unique CDR3
6 unique J



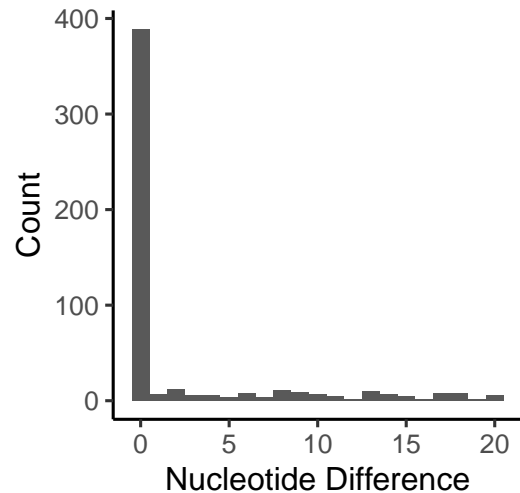
IGHV1-18*01

3119 sequences assigned
2010 (64.4%) exact matches, in which:
2008 unique CDR3
6 unique J



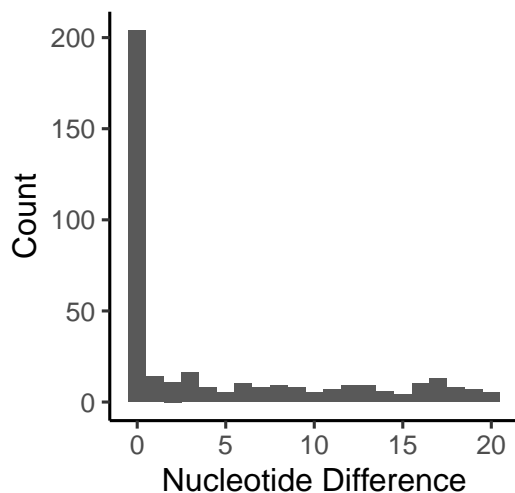
IGHV1-46*01

552 sequences assigned
389 (70.5%) exact matches, in which:
389 unique CDR3
6 unique J



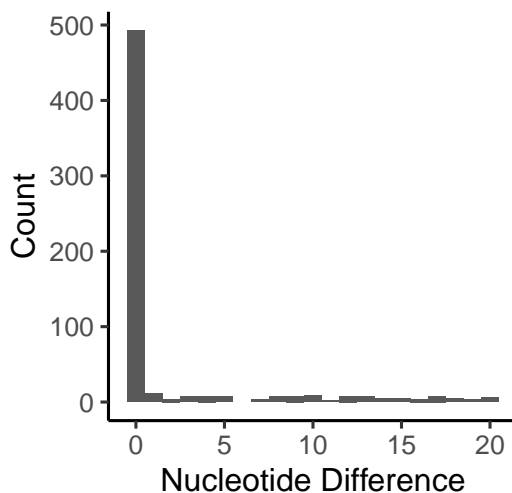
IGHV1-3*01_05

423 sequences assigned
204 (48.2%) exact matches, in which:
204 unique CDR3
6 unique J



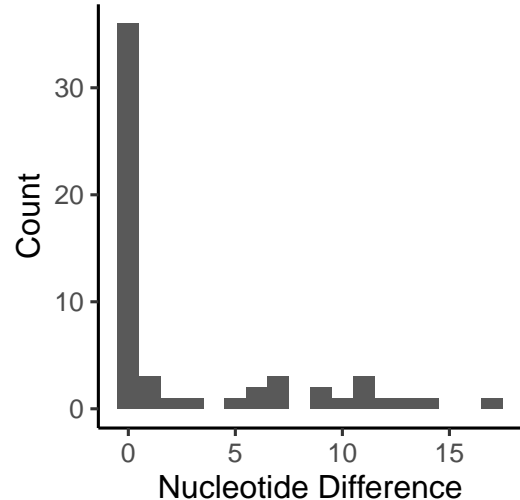
IGHV1-24*01

641 sequences assigned
493 (76.9%) exact matches, in which:
493 unique CDR3
6 unique J



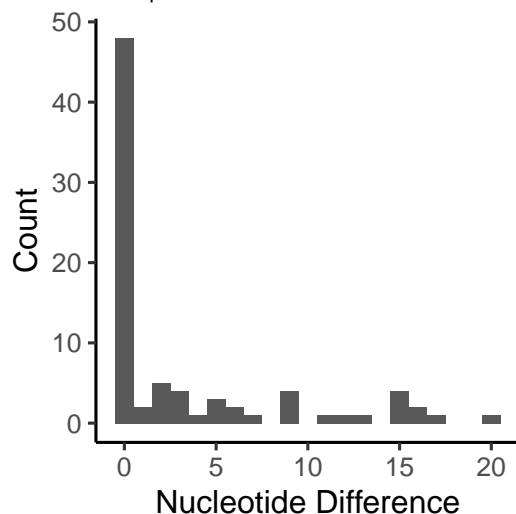
IGHV1-58*02

60 sequences assigned
36 (60%) exact matches, in which:
36 unique CDR3
5 unique J



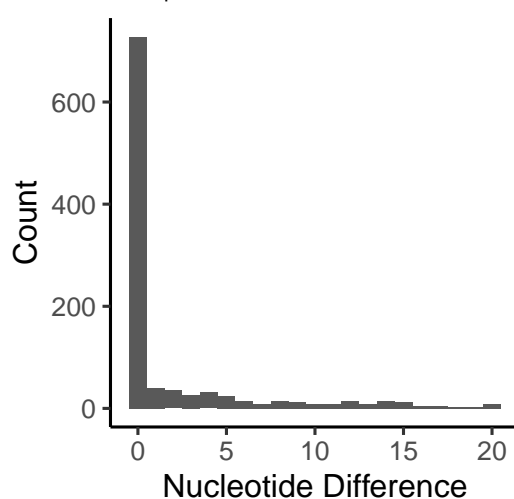
IGHV1-58*01_03

91 sequences assigned
48 (52.7%) exact matches, in which:
48 unique CDR3
5 unique J



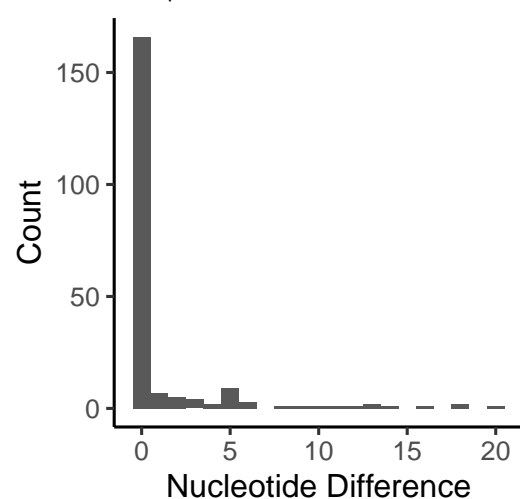
IGHV2-5*01

1047 sequences assigned
728 (69.5%) exact matches, in which:
726 unique CDR3
6 unique J



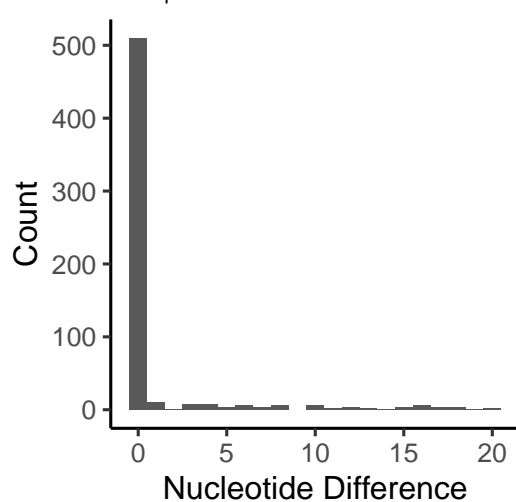
IGHV2-70*01

213 sequences assigned
166 (77.9%) exact matches, in which:
165 unique CDR3
6 unique J



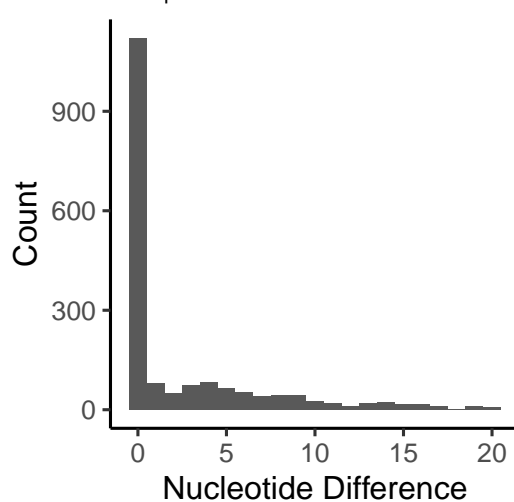
IGHV1-69*01_12_13

631 sequences assigned
510 (80.8%) exact matches, in which:
510 unique CDR3
6 unique J



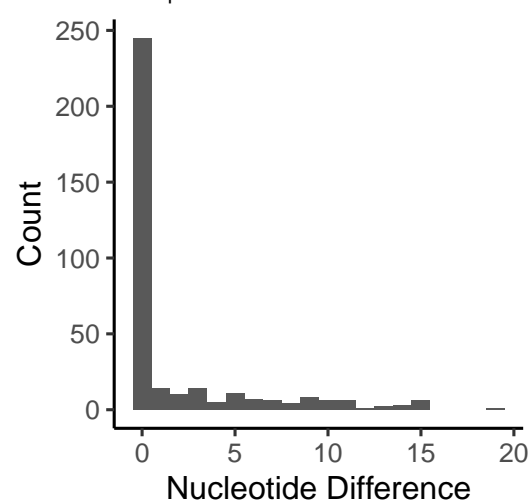
IGHV2-5*02

1860 sequences assigned
1121 (60.3%) exact matches, in which:
1117 unique CDR3
6 unique J



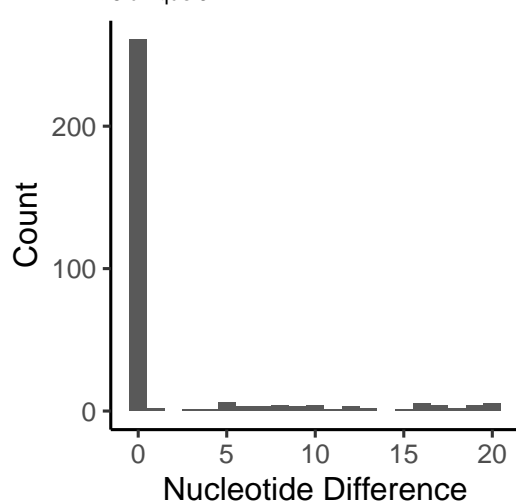
IGHV2-70*11_15

354 sequences assigned
245 (69.2%) exact matches, in which:
245 unique CDR3
5 unique J



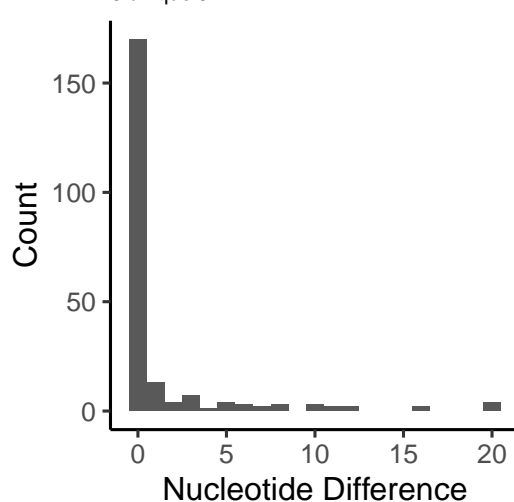
IGHV1-69*04_09

343 sequences assigned
261 (76.1%) exact matches, in which:
261 unique CDR3
6 unique J



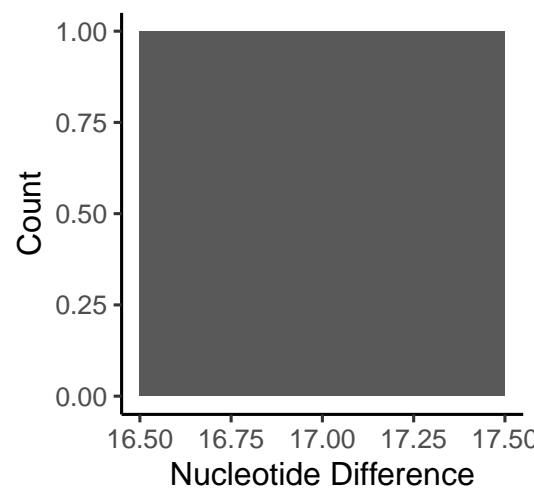
IGHV2-26*01

226 sequences assigned
170 (75.2%) exact matches, in which:
170 unique CDR3
6 unique J



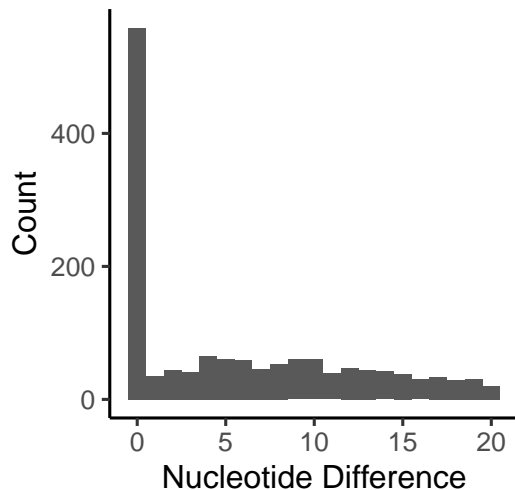
IGHV2-70D*04

1 sequences assigned
No exact matches.



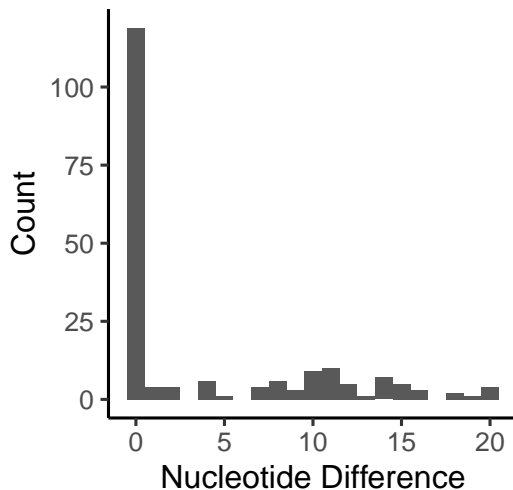
IGHV3-7*01

1565 sequences assigned
559 (35.7%) exact matches, in which:
556 unique CDR3
6 unique J



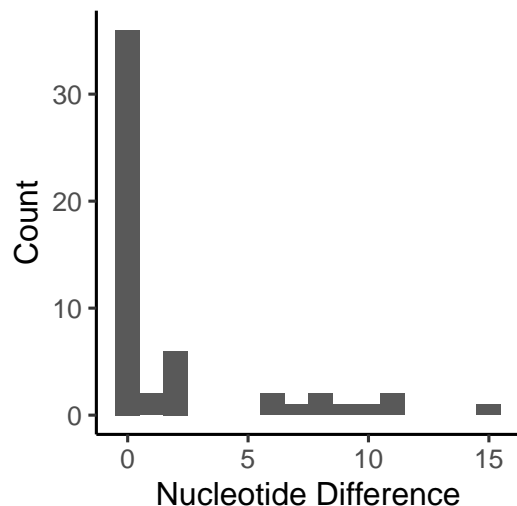
IGHV3-13*01

212 sequences assigned
119 (56.1%) exact matches, in which:
119 unique CDR3
5 unique J



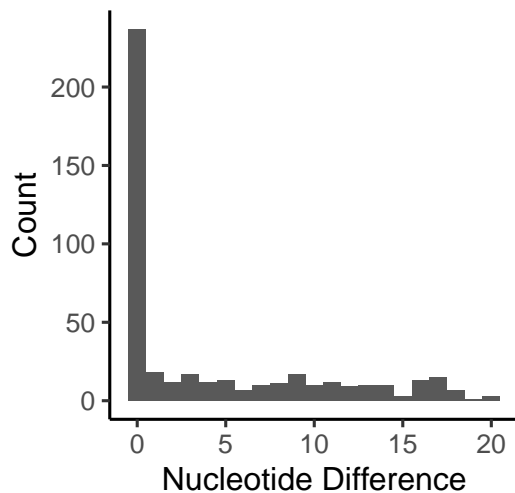
IGHV3-20*01_02

56 sequences assigned
36 (64.3%) exact matches, in which:
36 unique CDR3
5 unique J



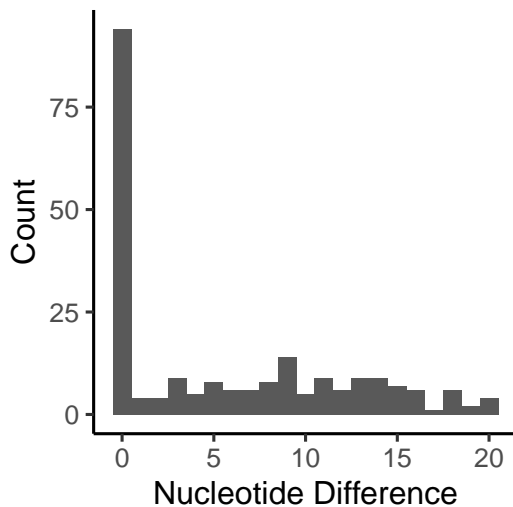
IGHV3-9*01

483 sequences assigned
237 (49.1%) exact matches, in which:
236 unique CDR3
6 unique J



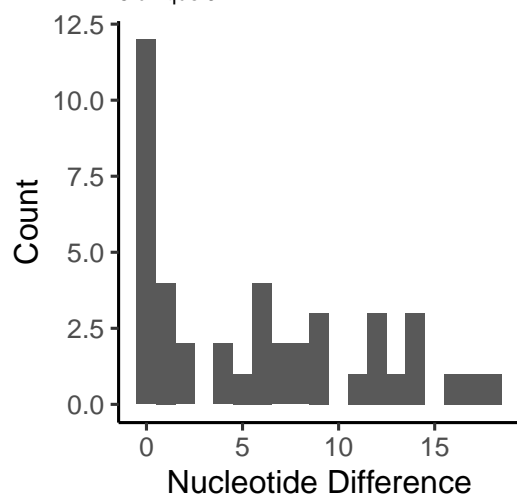
IGHV3-15*07

258 sequences assigned
94 (36.4%) exact matches, in which:
94 unique CDR3
5 unique J



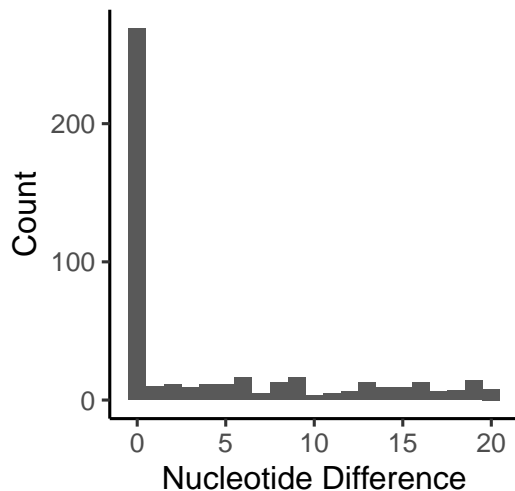
IGHV3-20*03_04

45 sequences assigned
12 (26.7%) exact matches, in which:
12 unique CDR3
5 unique J



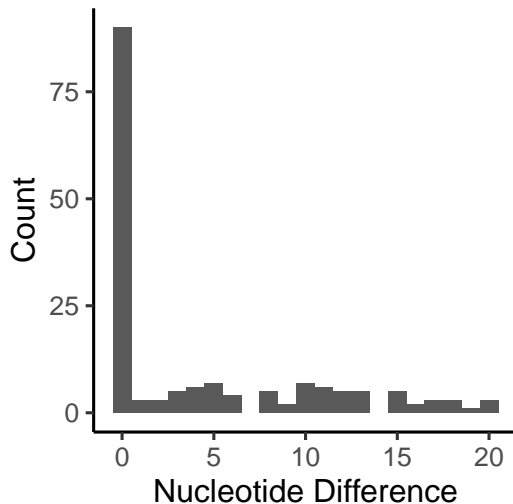
IGHV3-11*01

515 sequences assigned
269 (52.2%) exact matches, in which:
269 unique CDR3
6 unique J



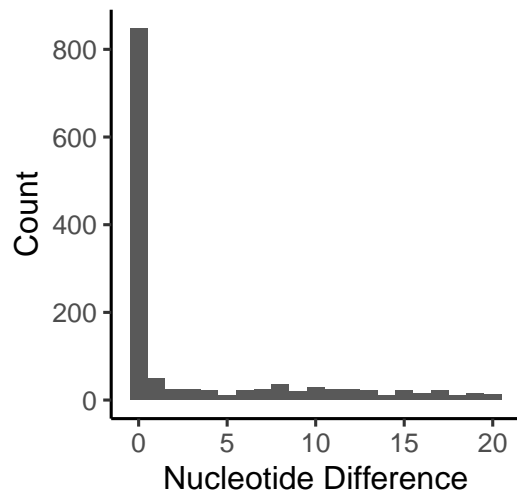
IGHV3-15*01_02

186 sequences assigned
90 (48.4%) exact matches, in which:
90 unique CDR3
5 unique J



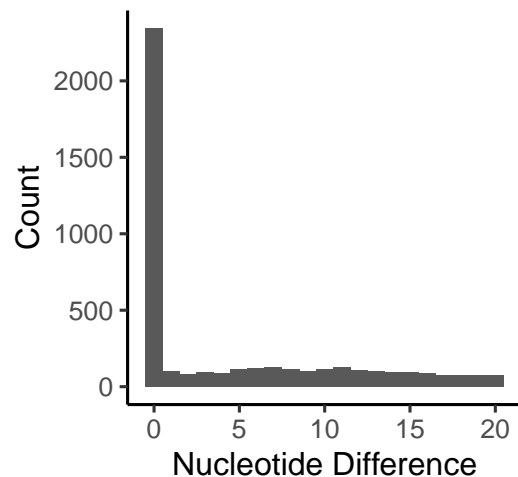
IGHV3-21*01_02

1366 sequences assigned
848 (62.1%) exact matches, in which:
847 unique CDR3
6 unique J



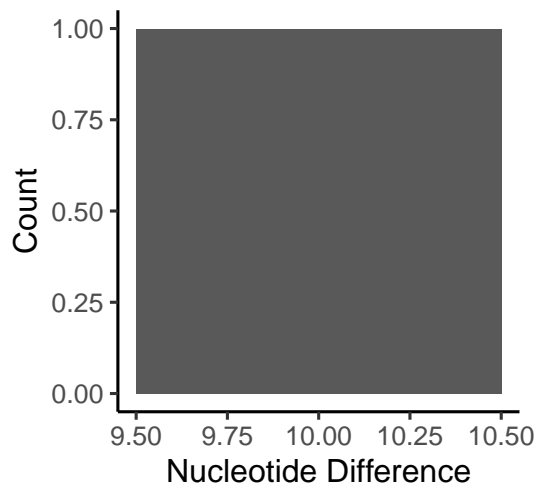
IGHV3-23*01_04

4753 sequences assigned
2343 (49.3%) exact matches, in which:
2324 unique CDR3
6 unique J



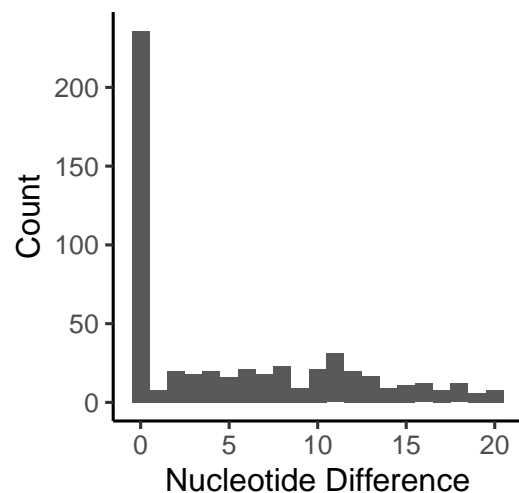
IGHV3-35*01

1 sequences assigned
No exact matches.



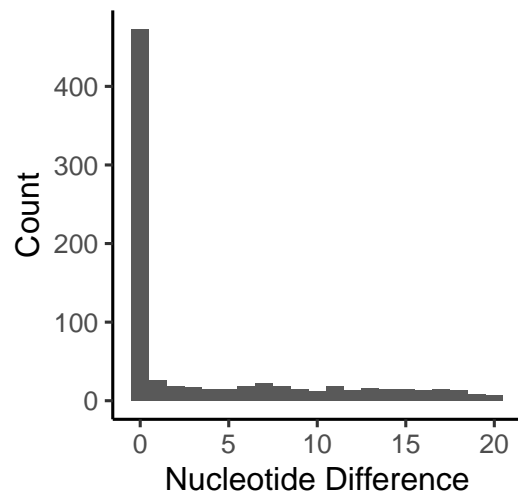
IGHV3-48*02

601 sequences assigned
236 (39.3%) exact matches, in which:
234 unique CDR3
6 unique J



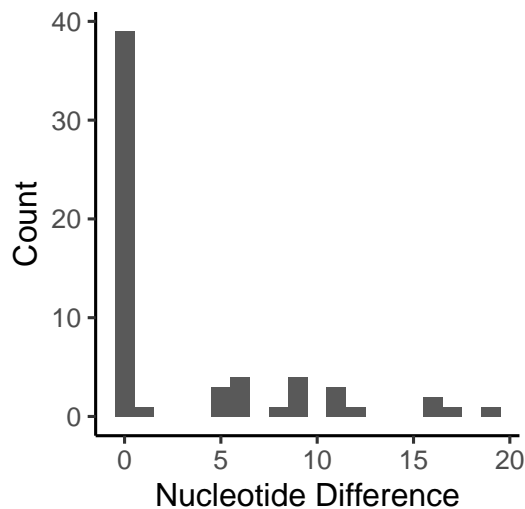
IGHV3-30-3*01

853 sequences assigned
473 (55.5%) exact matches, in which:
472 unique CDR3
6 unique J



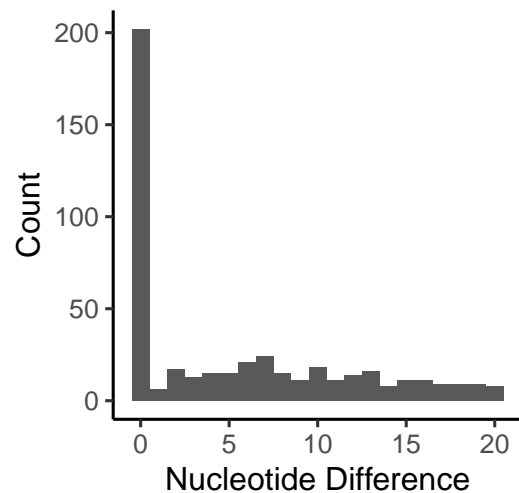
IGHV3-43*01

65 sequences assigned
39 (60%) exact matches, in which:
39 unique CDR3
5 unique J



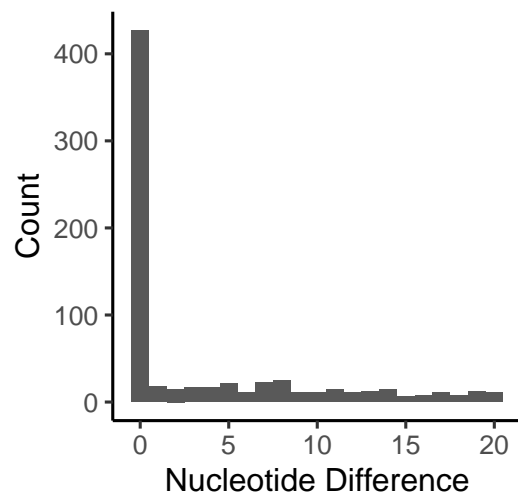
IGHV3-48*03

502 sequences assigned
202 (40.2%) exact matches, in which:
202 unique CDR3
6 unique J



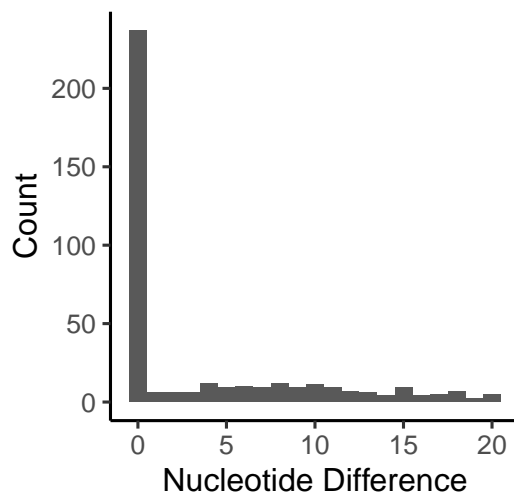
IGHV3-33*01

764 sequences assigned
427 (55.9%) exact matches, in which:
427 unique CDR3
6 unique J



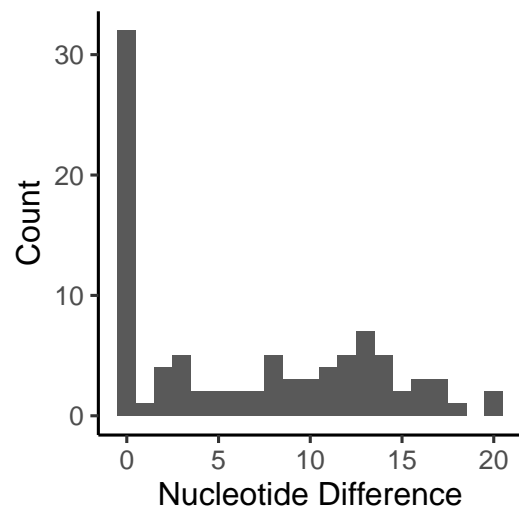
IGHV3-43*02

406 sequences assigned
237 (58.4%) exact matches, in which:
236 unique CDR3
6 unique J



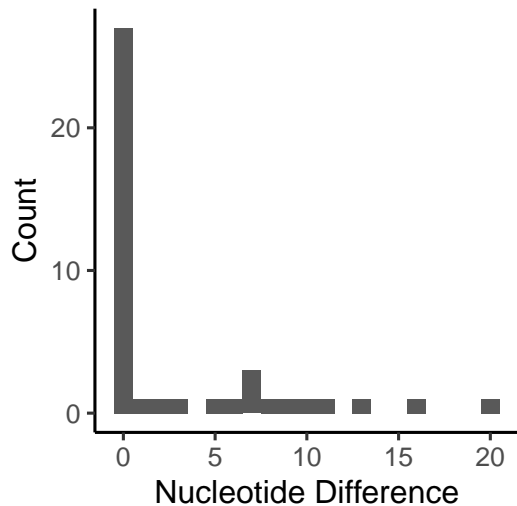
IGHV3-49*04

109 sequences assigned
32 (29.4%) exact matches, in which:
32 unique CDR3
4 unique J



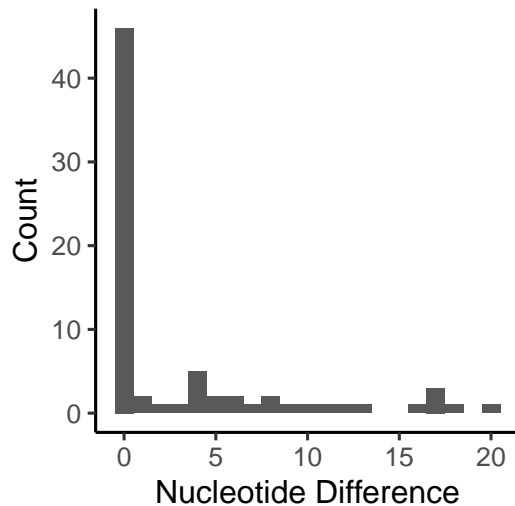
IGHV3-49*03_05

44 sequences assigned
27 (61.4%) exact matches, in which:
27 unique CDR3
5 unique J



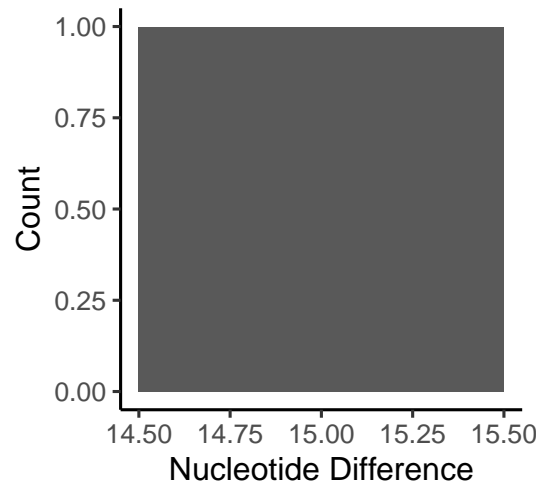
IGHV3-64*01

83 sequences assigned
46 (55.4%) exact matches, in which:
46 unique CDR3
5 unique J



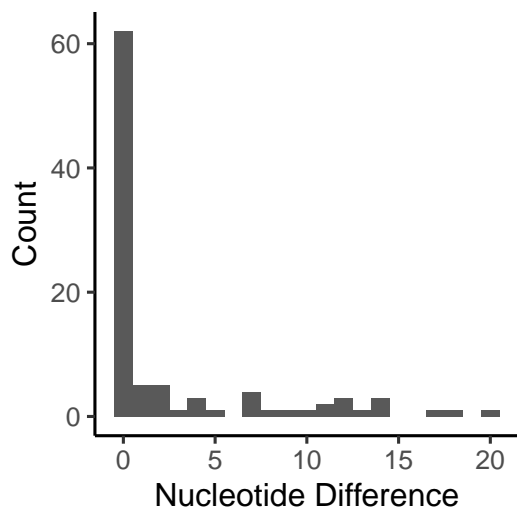
IGHV3-69-1*01

4 sequences assigned
No exact matches.



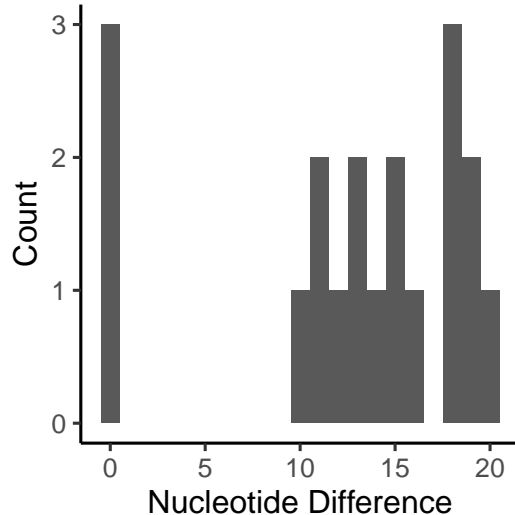
IGHV3-53*04

104 sequences assigned
62 (59.6%) exact matches, in which:
62 unique CDR3
5 unique J



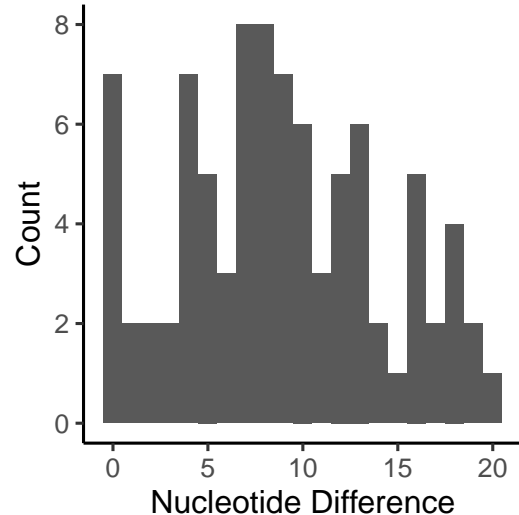
IGHV3-64*02_07

26 sequences assigned
3 (11.5%) exact matches, in which:
3 unique CDR3
2 unique J



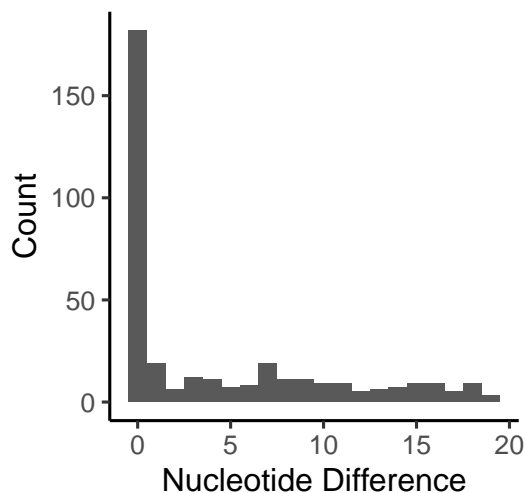
IGHV3-72*01

98 sequences assigned
7 (7.1%) exact matches, in which:
7 unique CDR3
3 unique J



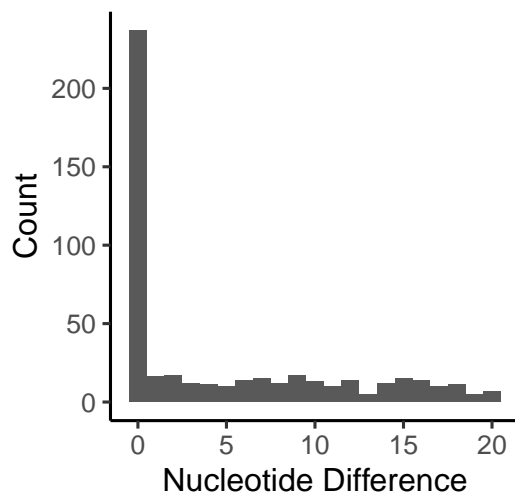
IGHV3-53*01_02

380 sequences assigned
182 (47.9%) exact matches, in which:
180 unique CDR3
5 unique J



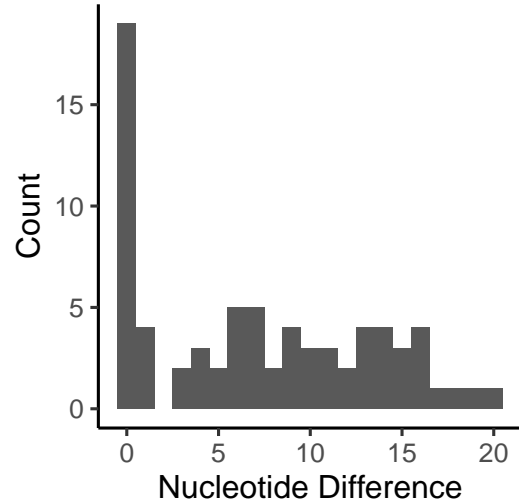
IGHV3-66*01

509 sequences assigned
237 (46.6%) exact matches, in which:
234 unique CDR3
6 unique J



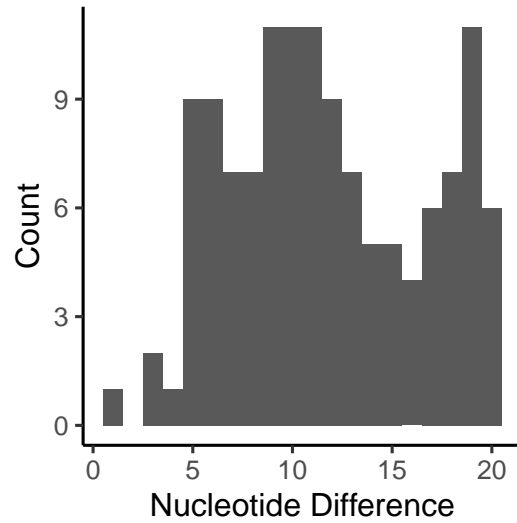
IGHV3-73*01_02

88 sequences assigned
19 (21.6%) exact matches, in which:
18 unique CDR3
4 unique J



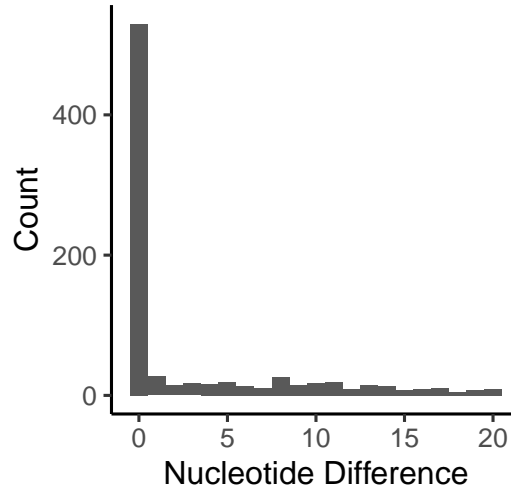
IGHV3-74*03

164 sequences assigned
No exact matches.



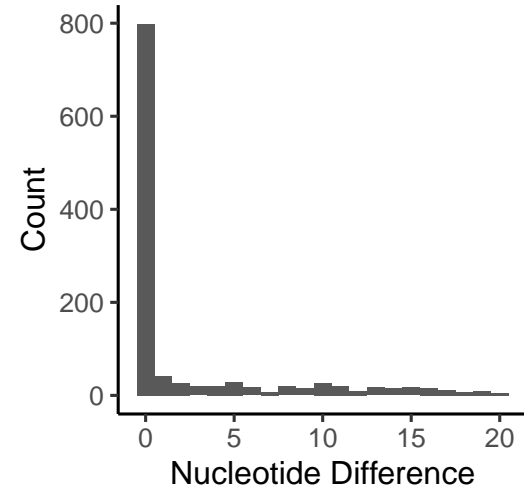
IGHV4-4*02_03

867 sequences assigned
530 (61.1%) exact matches, in which:
527 unique CDR3
6 unique J



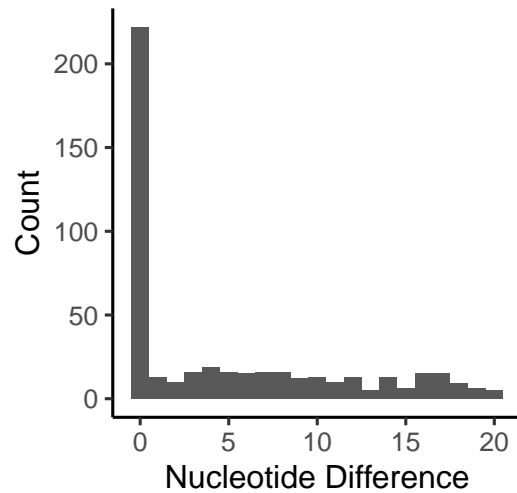
IGHV4-30-4*01

1224 sequences assigned
799 (65.3%) exact matches, in which:
790 unique CDR3
6 unique J



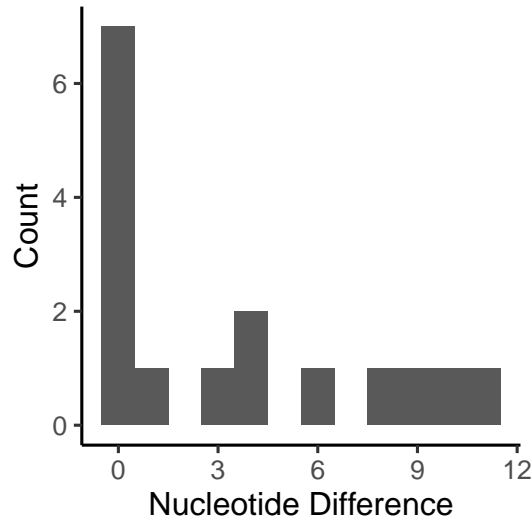
IGHV3-74*01_02

488 sequences assigned
222 (45.5%) exact matches, in which:
218 unique CDR3
5 unique J



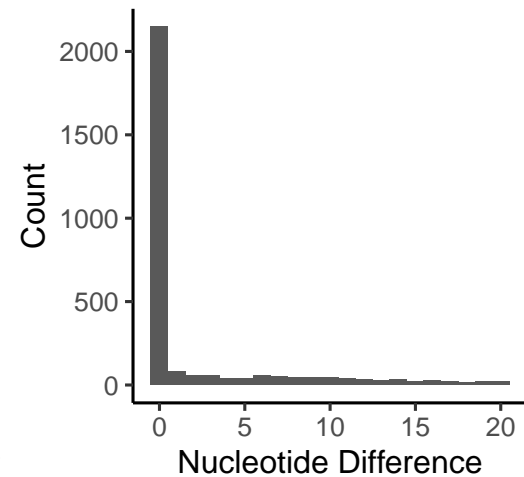
IGHV4-28*01_07

20 sequences assigned
7 (35%) exact matches, in which:
7 unique CDR3
5 unique J



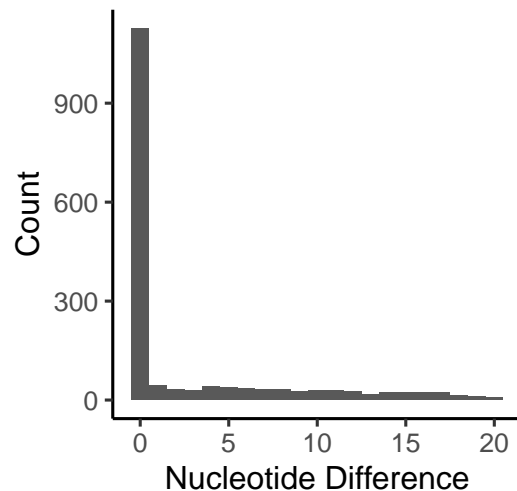
IGHV4-31*02

3040 sequences assigned
2148 (70.7%) exact matches, in which:
2129 unique CDR3
6 unique J



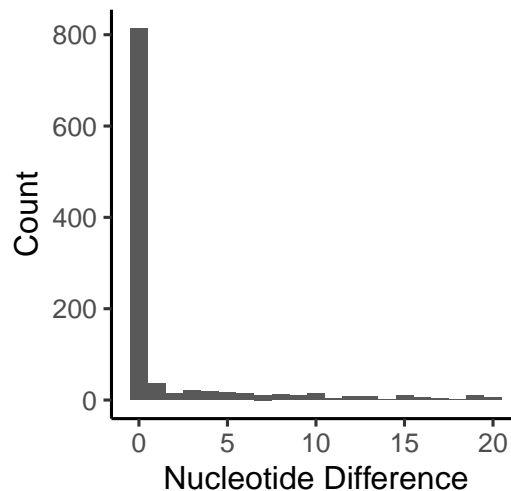
IGHV4-4*07

1710 sequences assigned
1127 (65.9%) exact matches, in which:
1112 unique CDR3
6 unique J



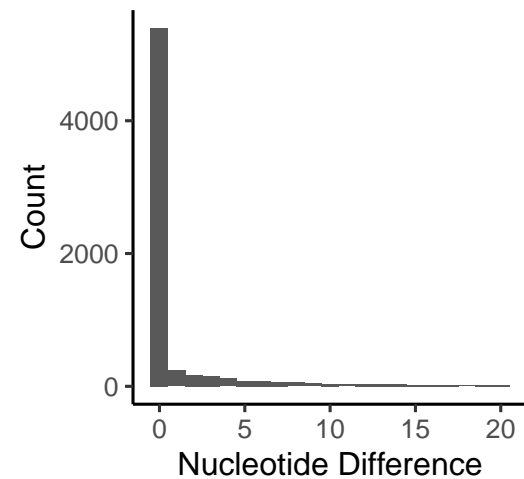
IGHV4-30-2*01

1073 sequences assigned
814 (75.9%) exact matches, in which:
785 unique CDR3
6 unique J



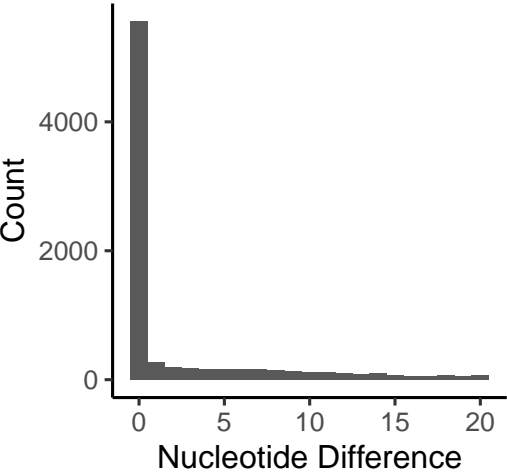
IGHV4-34*01_02

6817 sequences assigned
5396 (79.2%) exact matches, in which:
5303 unique CDR3
6 unique J



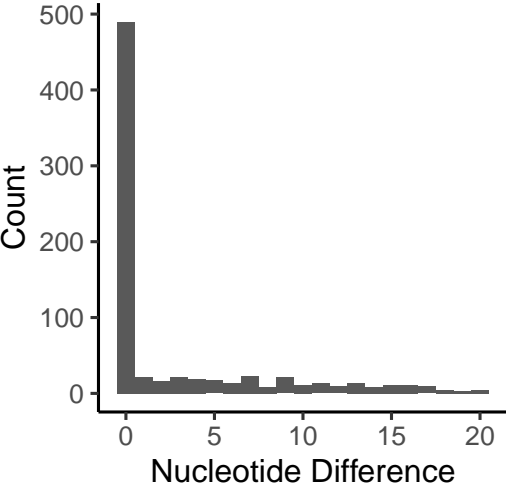
IGHV4-39*02_C258G

8363 sequences assigned
5558 (66.5%) exact matches, in which:
5469 unique CDR3
6 unique J



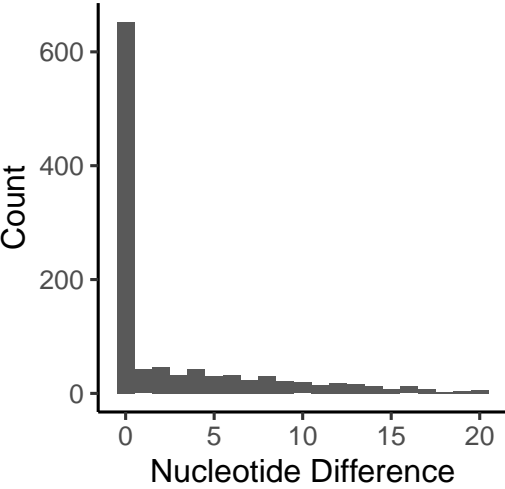
IGHV4-61*01

788 sequences assigned
490 (62.2%) exact matches, in which:
485 unique CDR3
6 unique J



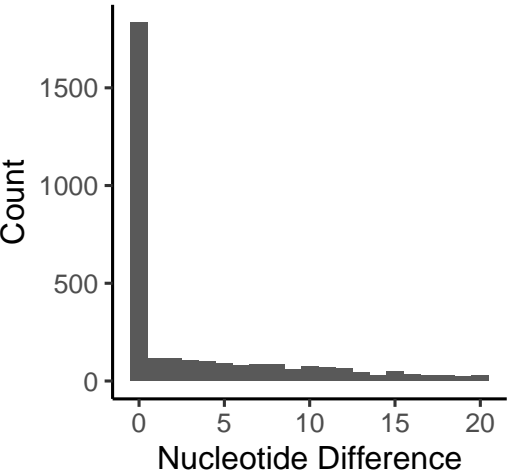
IGHV5-51*07_A128G

1103 sequences assigned
653 (59.2%) exact matches, in which:
653 unique CDR3
6 unique J



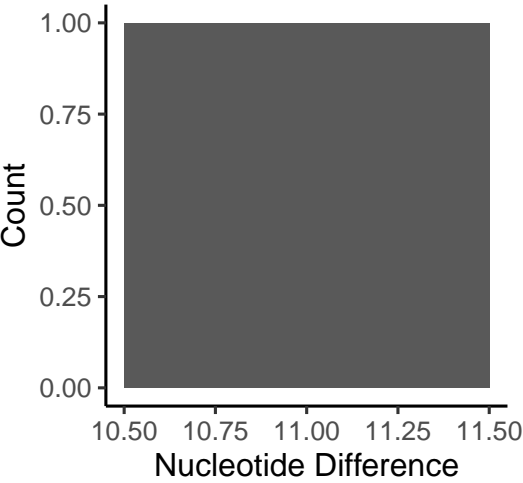
IGHV4-59*08

3289 sequences assigned
1833 (55.7%) exact matches, in which:
1802 unique CDR3
6 unique J



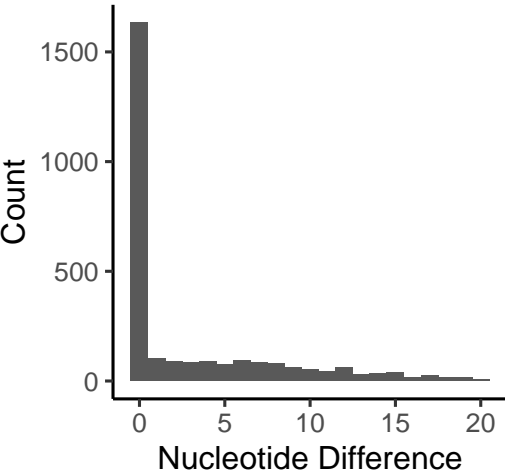
IGHV4/OR15-8*01

2 sequences assigned
No exact matches.



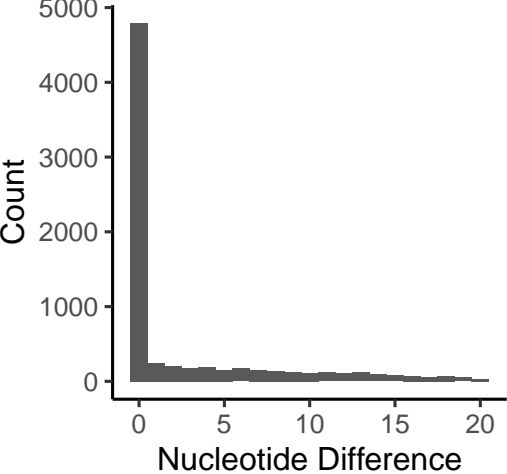
IGHV6-1*01_02

2815 sequences assigned
1633 (58%) exact matches, in which:
1627 unique CDR3
6 unique J



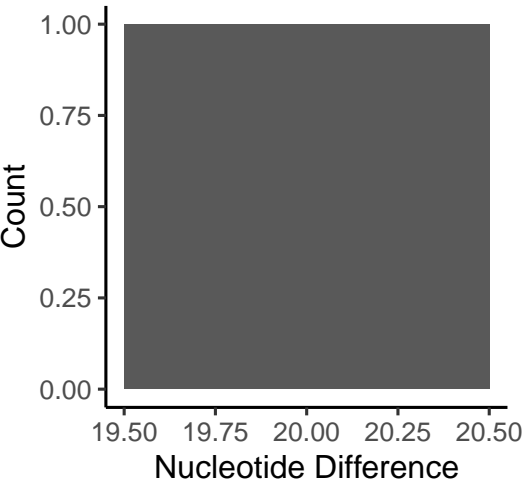
IGHV4-59*02_G88A

7544 sequences assigned
4793 (63.5%) exact matches, in which:
4711 unique CDR3
6 unique J



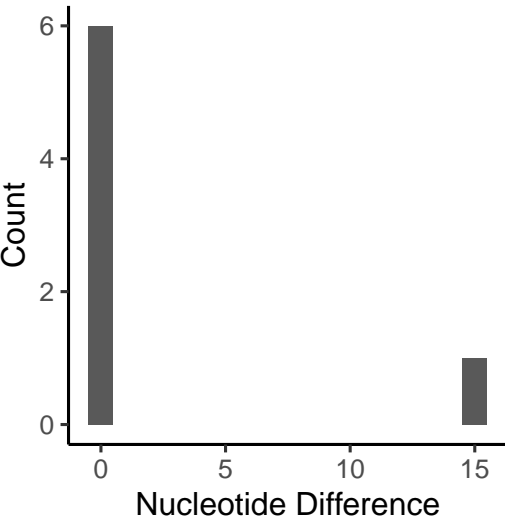
IGHV4/OR15-8*02

3 sequences assigned
No exact matches.



IGHV7-4-1*01

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
2 unique J





Warning – no inferred sequences found.