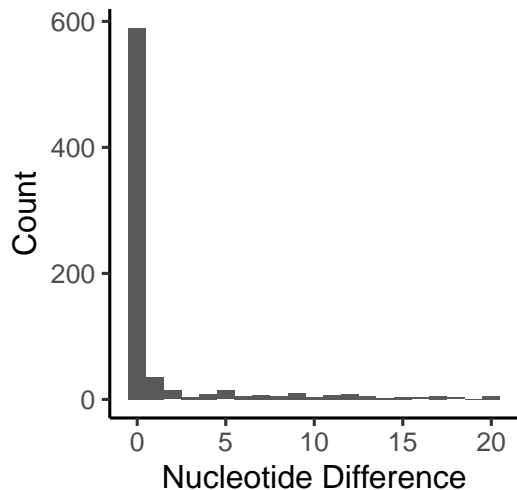


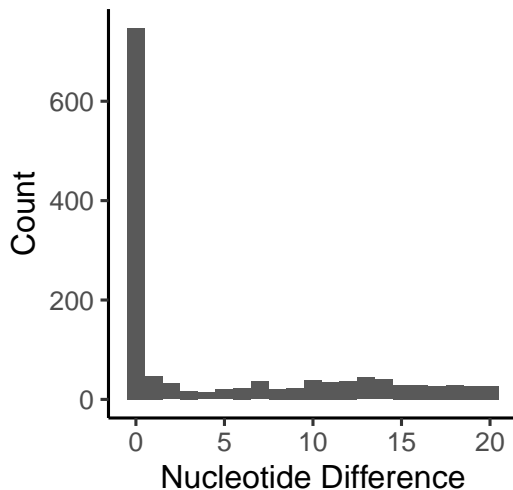
IGHV1-2*04

763 sequences assigned
590 (77.3%) exact matches, in which:
590 unique CDR3
6 unique J



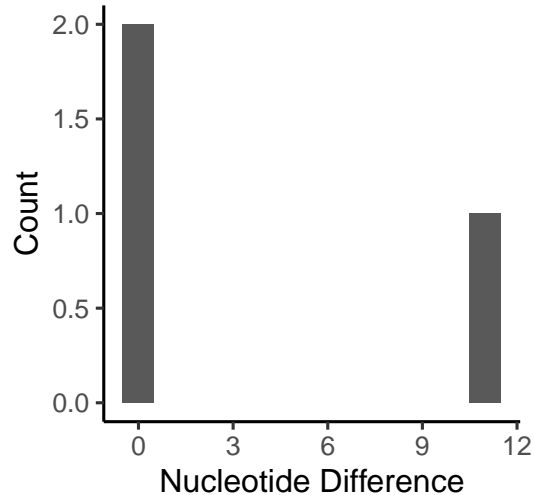
IGHV1-18*01

1466 sequences assigned
748 (51%) exact matches, in which:
747 unique CDR3
6 unique J



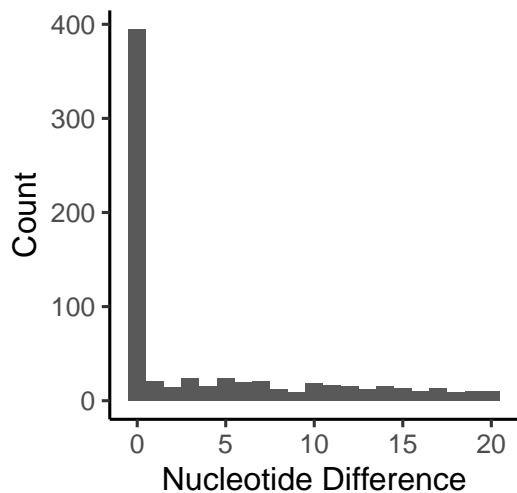
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



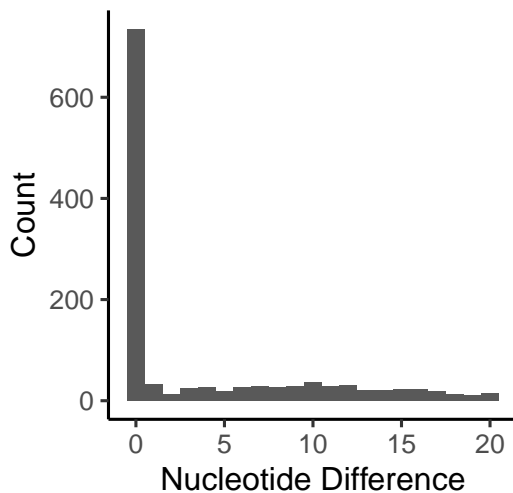
IGHV1-3*01_05

747 sequences assigned
395 (52.9%) exact matches, in which:
393 unique CDR3
6 unique J



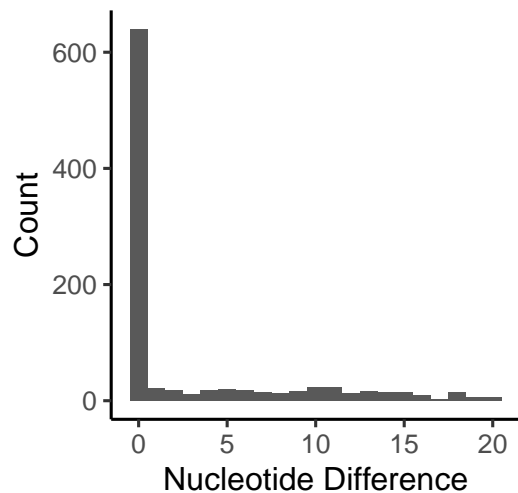
IGHV1-18*04

1268 sequences assigned
735 (58%) exact matches, in which:
734 unique CDR3
6 unique J



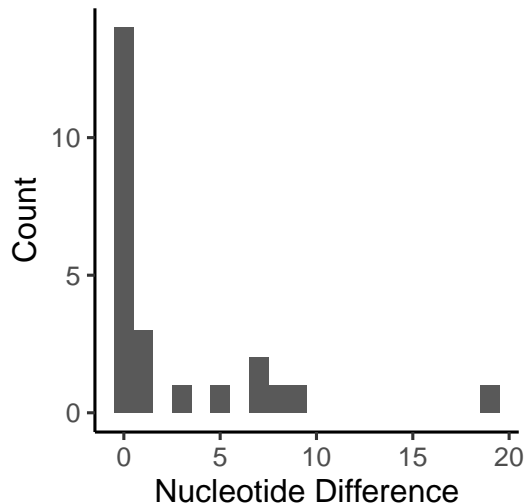
IGHV1-46*01

984 sequences assigned
640 (65%) exact matches, in which:
638 unique CDR3
6 unique J



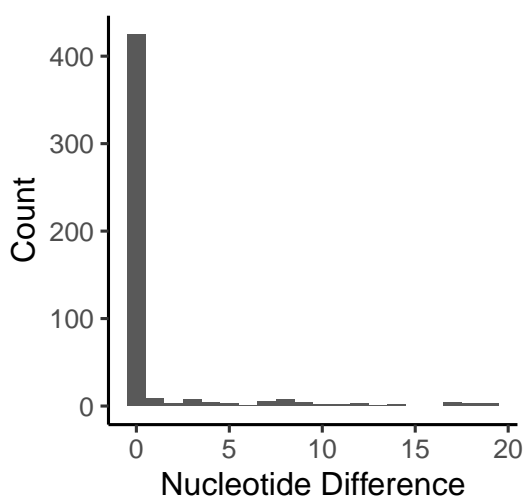
IGHV1-8*01

25 sequences assigned
14 (56%) exact matches, in which:
14 unique CDR3
5 unique J



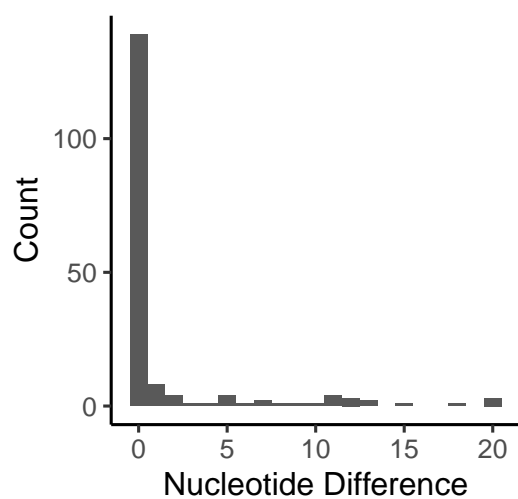
IGHV1-24*01

497 sequences assigned
425 (85.5%) exact matches, in which:
424 unique CDR3
6 unique J



IGHV1-58*01_03

180 sequences assigned
139 (77.2%) exact matches, in which:
139 unique CDR3
6 unique J



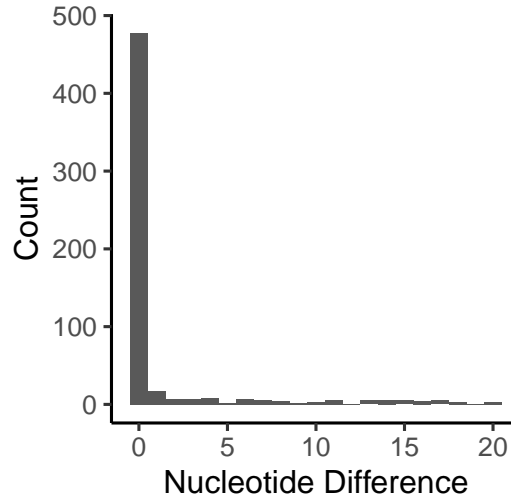
IGHV1-68*01

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



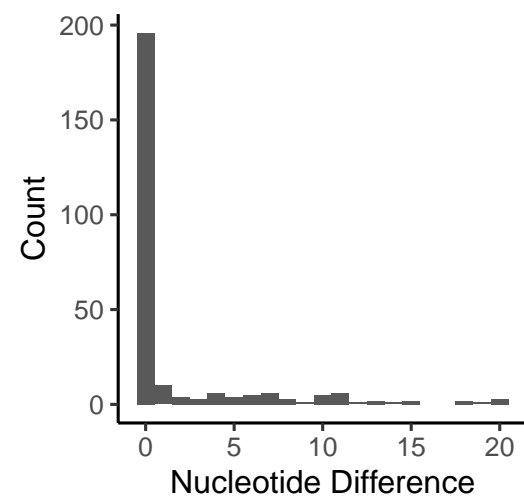
IGHV1-69*06_14

615 sequences assigned
478 (77.7%) exact matches, in which:
477 unique CDR3
6 unique J



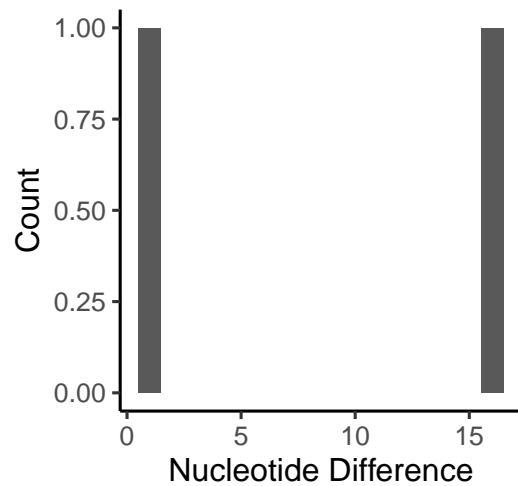
IGHV2-70*01

265 sequences assigned
196 (74%) exact matches, in which:
195 unique CDR3
5 unique J



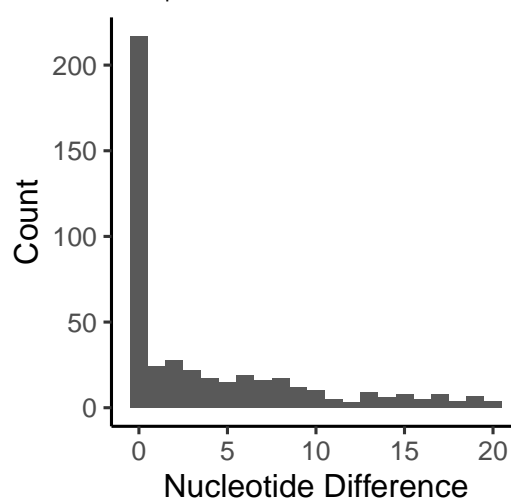
IGHV1-69-2*01

4 sequences assigned
No exact matches.



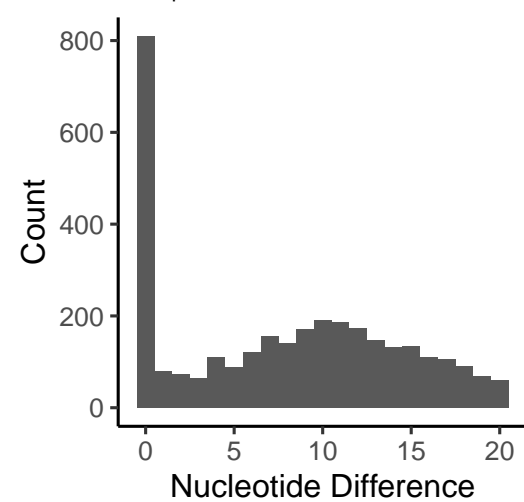
IGHV2-5*02

476 sequences assigned
217 (45.6%) exact matches, in which:
217 unique CDR3
6 unique J



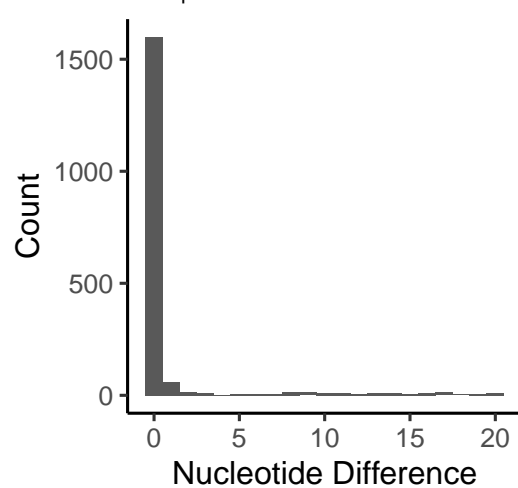
IGHV3-7*03

3452 sequences assigned
810 (23.5%) exact matches, in which:
797 unique CDR3
6 unique J



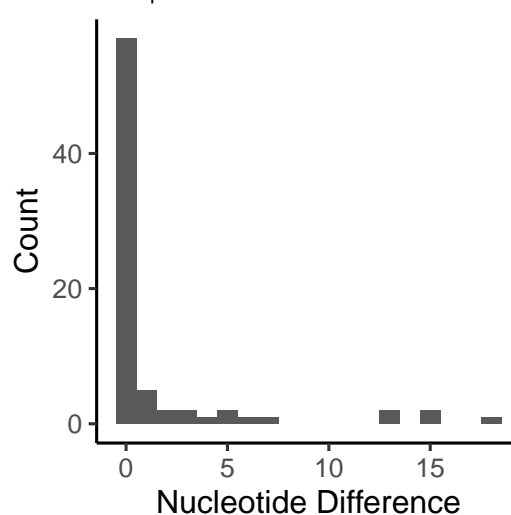
IGHV1-69*01_12_13

1944 sequences assigned
1599 (82.3%) exact matches, in which:
1598 unique CDR3
6 unique J



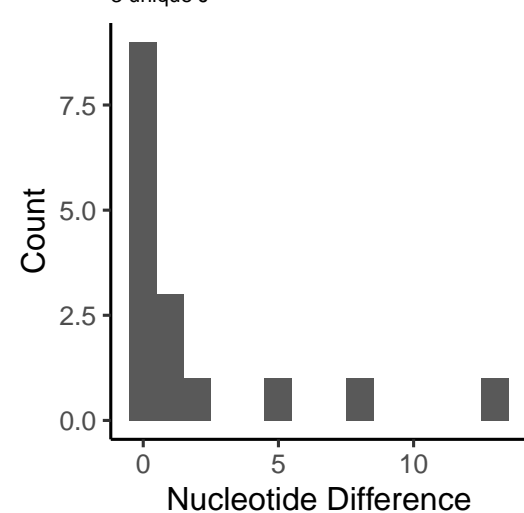
IGHV2-26*01

78 sequences assigned
57 (73.1%) exact matches, in which:
57 unique CDR3
5 unique J



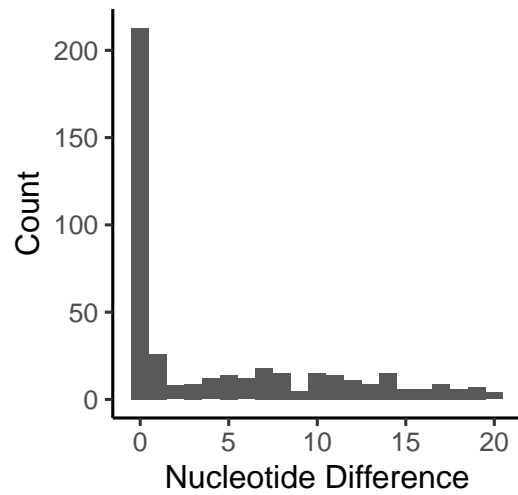
IGHV3-9*01

16 sequences assigned
9 (56.2%) exact matches, in which:
9 unique CDR3
3 unique J



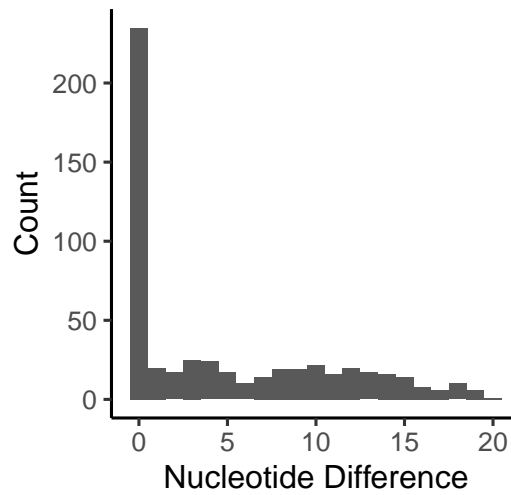
IGHV3-11*06

473 sequences assigned
213 (45%) exact matches, in which:
210 unique CDR3
6 unique J



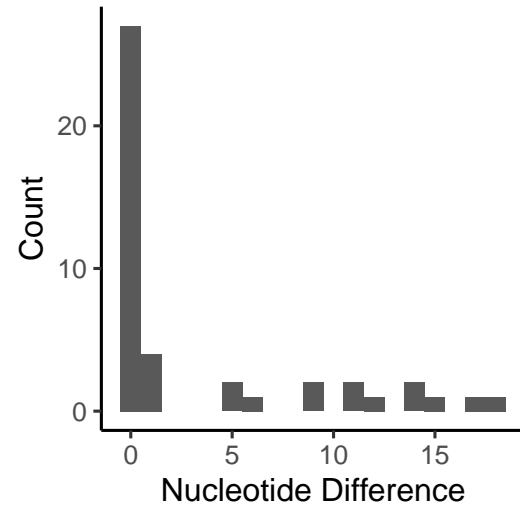
IGHV3-15*07

567 sequences assigned
235 (41.4%) exact matches, in which:
233 unique CDR3
6 unique J



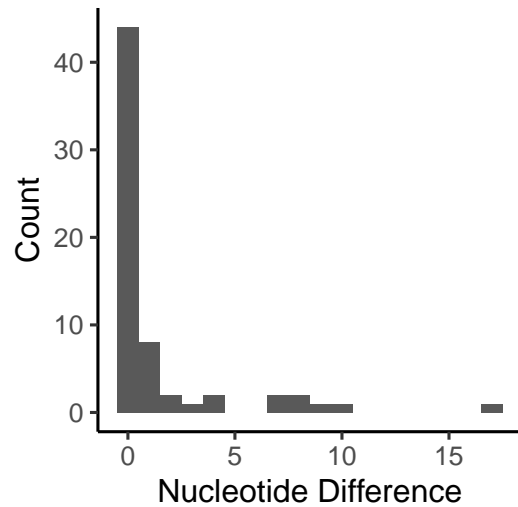
IGHV3-20*03_04

46 sequences assigned
27 (58.7%) exact matches, in which:
27 unique CDR3
4 unique J



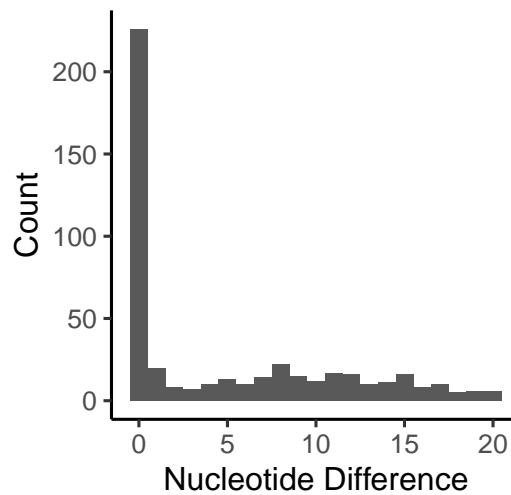
IGHV3-13*05

69 sequences assigned
44 (63.8%) exact matches, in which:
44 unique CDR3
4 unique J



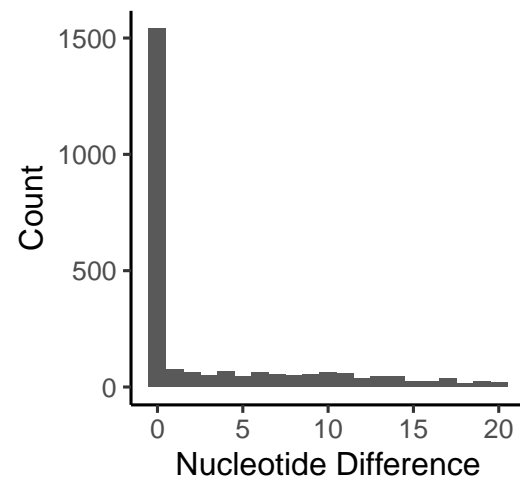
IGHV3-15*01_02

499 sequences assigned
226 (45.3%) exact matches, in which:
222 unique CDR3
6 unique J



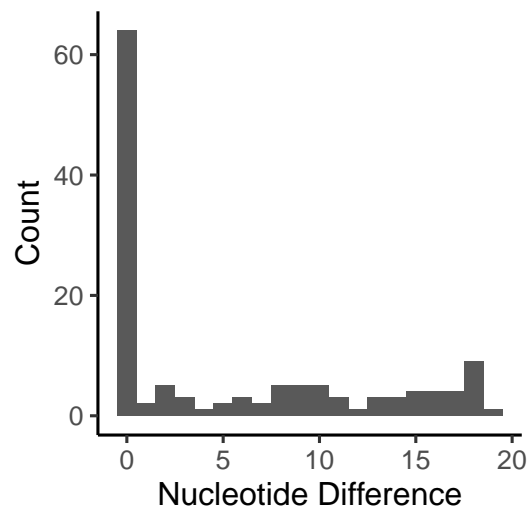
IGHV3-21*01_02

2517 sequences assigned
1540 (61.2%) exact matches, in which:
1507 unique CDR3
6 unique J



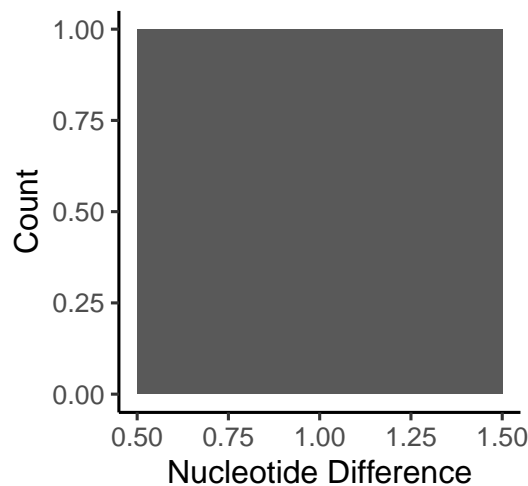
IGHV3-13*01_G290A_T3C^C

143 sequences assigned
64 (44.8%) exact matches, in which:
63 unique CDR3
5 unique J



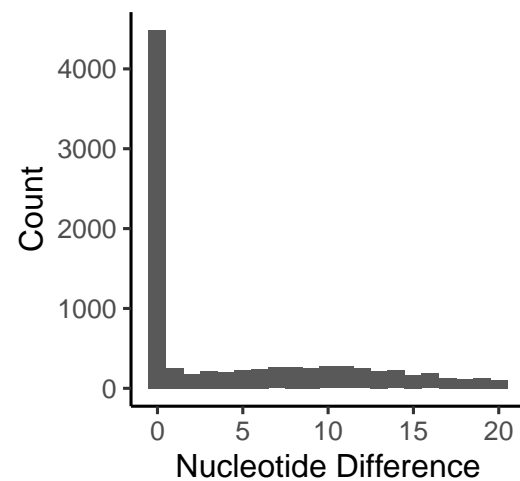
IGHV3-19*01

1 sequences assigned
No exact matches.



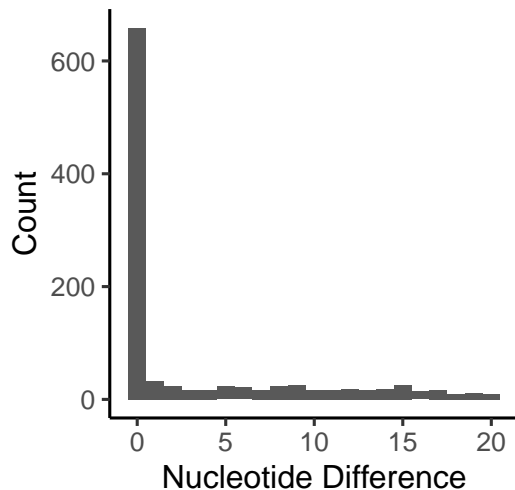
IGHV3-23*01_04

9173 sequences assigned
4486 (48.9%) exact matches, in which:
4410 unique CDR3
6 unique J



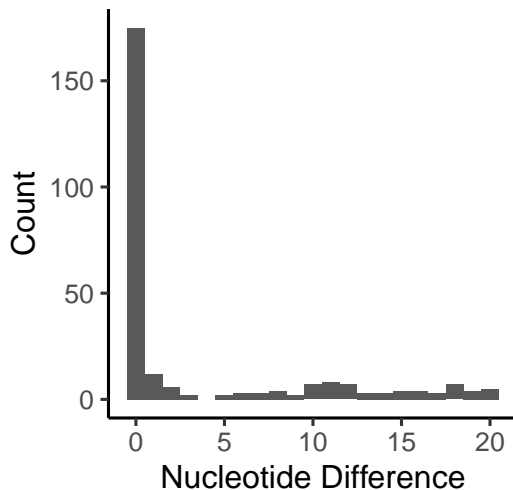
IGHV3-30-3*01

1073 sequences assigned
659 (61.4%) exact matches, in which:
649 unique CDR3
6 unique J



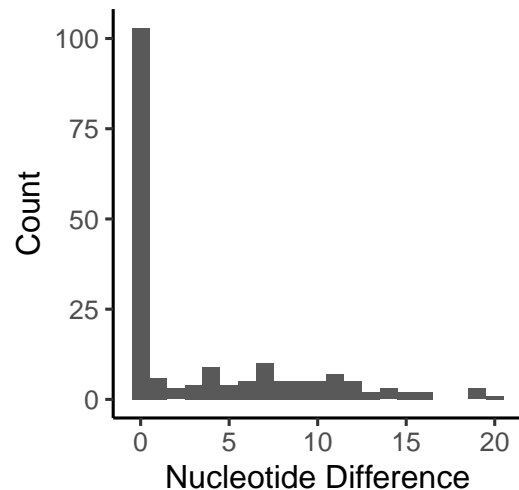
IGHV3-43*01

275 sequences assigned
175 (63.6%) exact matches, in which:
175 unique CDR3
6 unique J



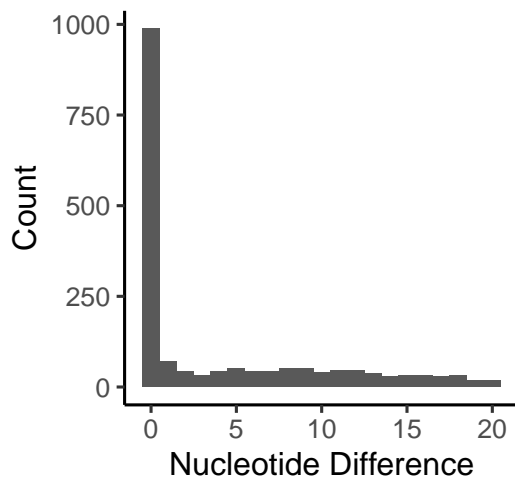
IGHV3-49*03_05

190 sequences assigned
103 (54.2%) exact matches, in which:
103 unique CDR3
4 unique J



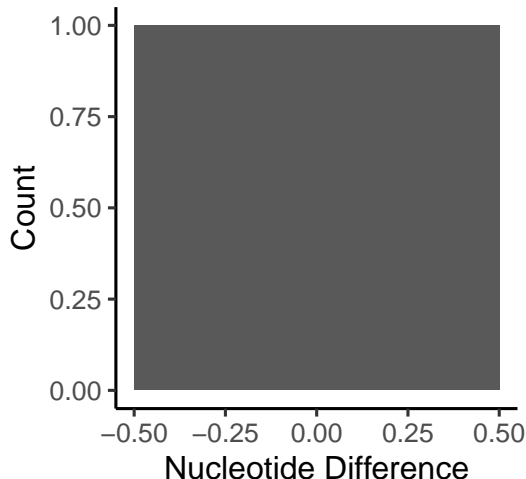
IGHV3-33*01

1843 sequences assigned
988 (53.6%) exact matches, in which:
977 unique CDR3
6 unique J



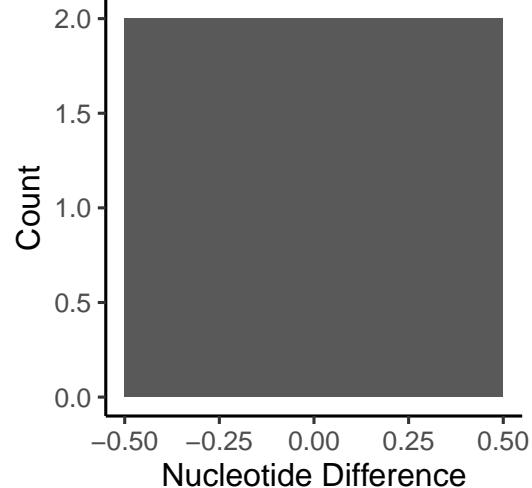
IGHV3-47*02

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



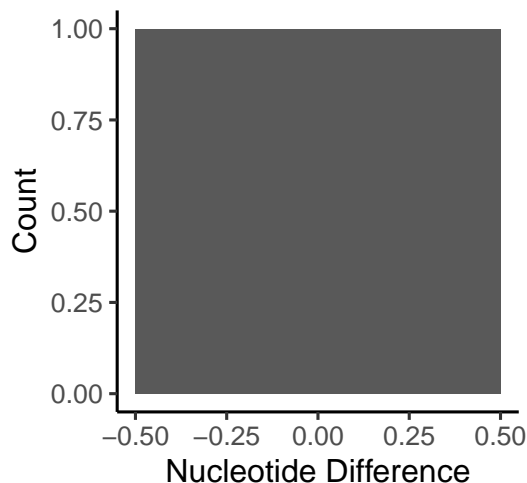
IGHV3-52*01_03

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



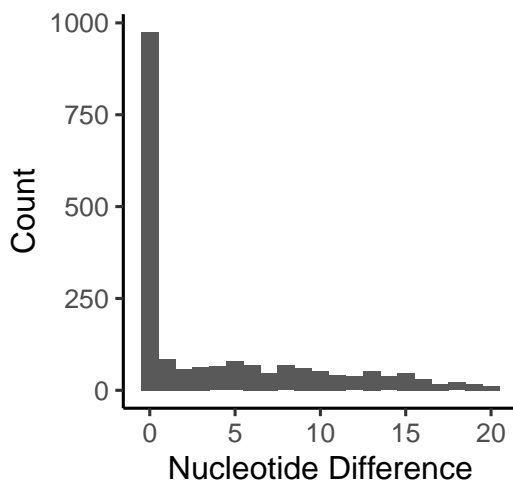
IGHV3-35*01

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



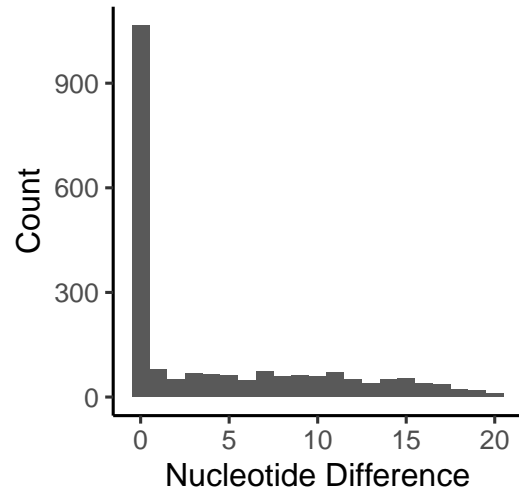
IGHV3-48*02

2025 sequences assigned
975 (48.1%) exact matches, in which:
955 unique CDR3
6 unique J



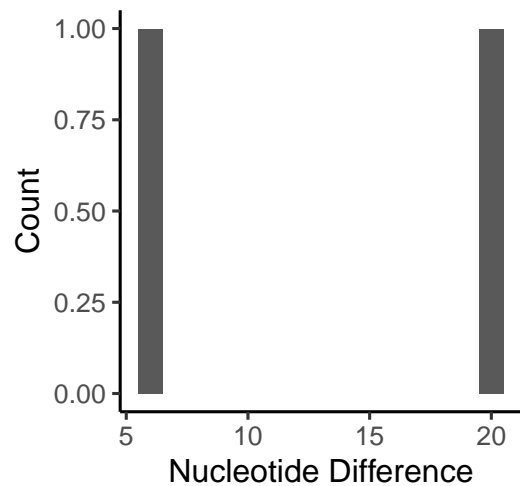
IGHV3-53*01_02

2153 sequences assigned
1066 (49.5%) exact matches, in which:
1048 unique CDR3
6 unique J



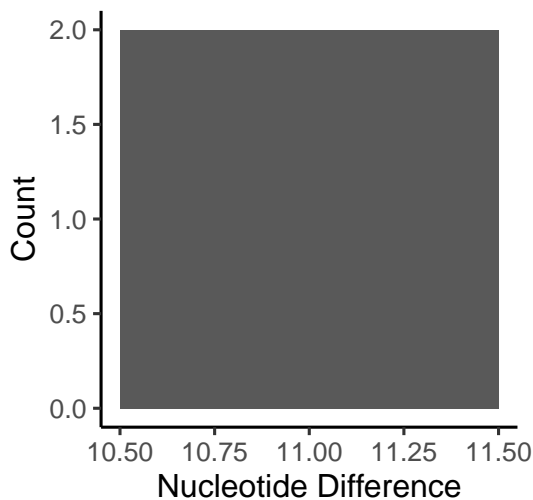
IGHV3-64*04

2 sequences assigned
No exact matches.



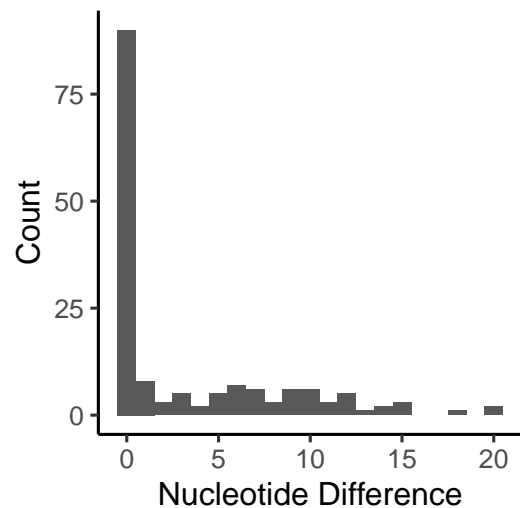
IGHV3-66*04

2 sequences assigned
No exact matches.



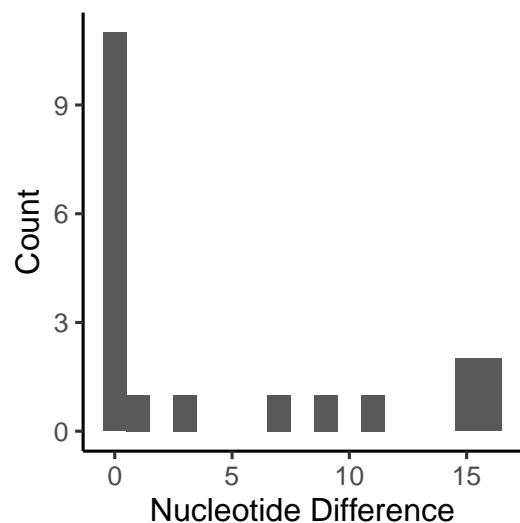
IGHV3-73*01_02

161 sequences assigned
90 (55.9%) exact matches, in which:
90 unique CDR3
5 unique J



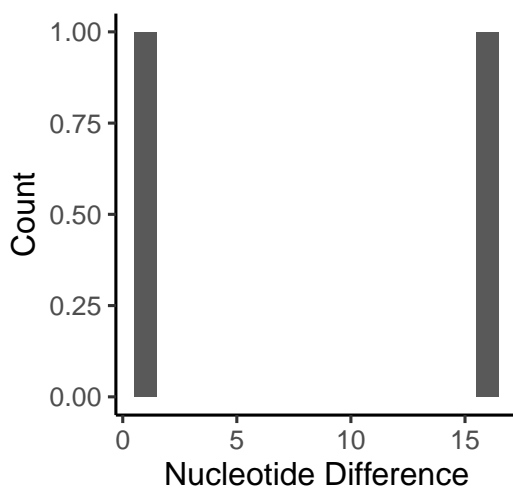
IGHV3-64*02_07

20 sequences assigned
11 (55%) exact matches, in which:
11 unique CDR3
4 unique J



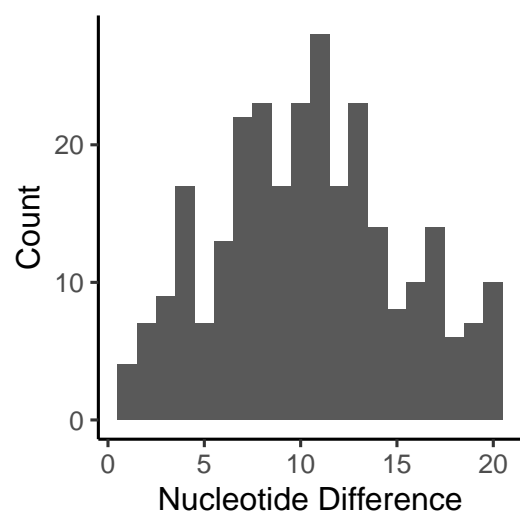
IGHV3-69-1*02

2 sequences assigned
No exact matches.



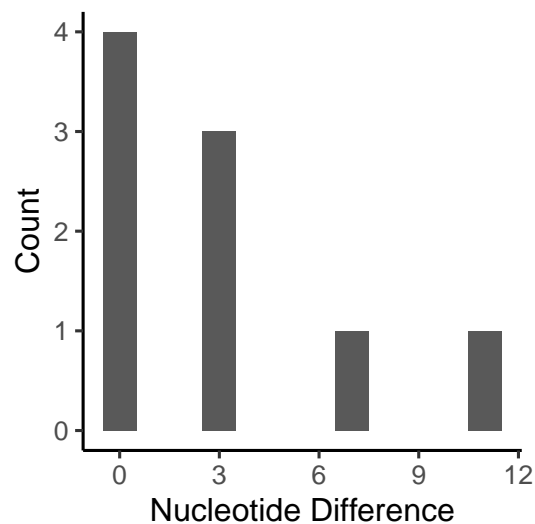
IGHV3-74*03

317 sequences assigned
No exact matches.



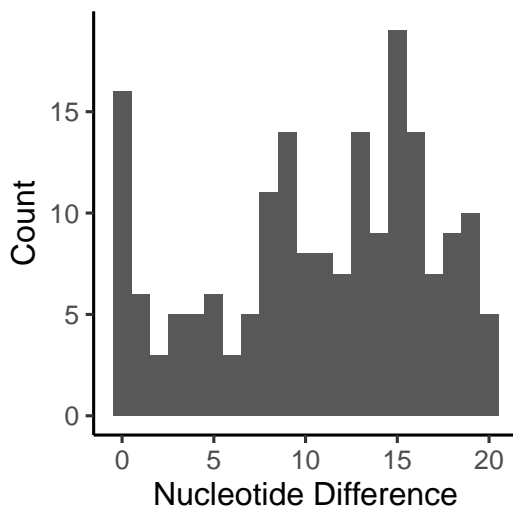
IGHV3-66*03

9 sequences assigned
4 (44.4%) exact matches, in which:
4 unique CDR3
3 unique J



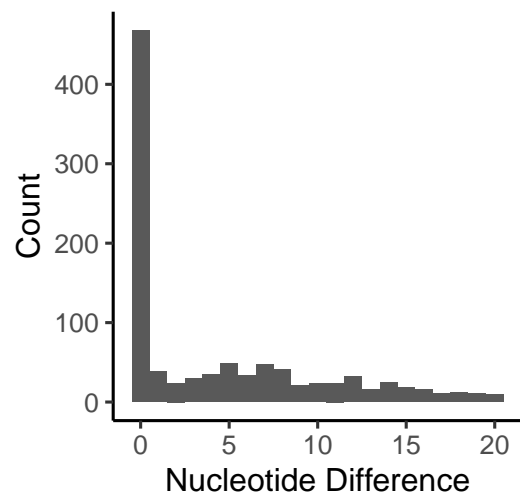
IGHV3-72*01

193 sequences assigned
16 (8.3%) exact matches, in which:
14 unique CDR3
5 unique J



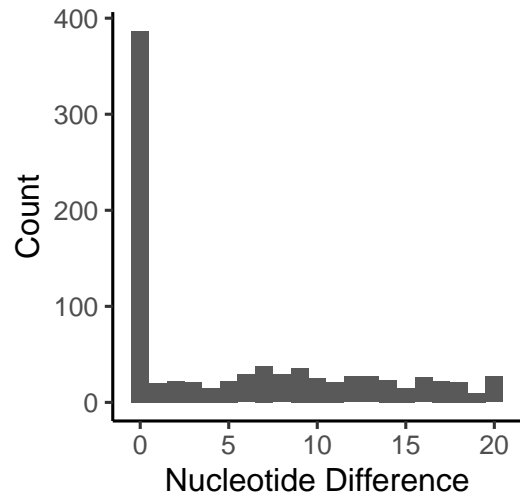
IGHV3-74*01_02

1018 sequences assigned
468 (46%) exact matches, in which:
453 unique CDR3
6 unique J



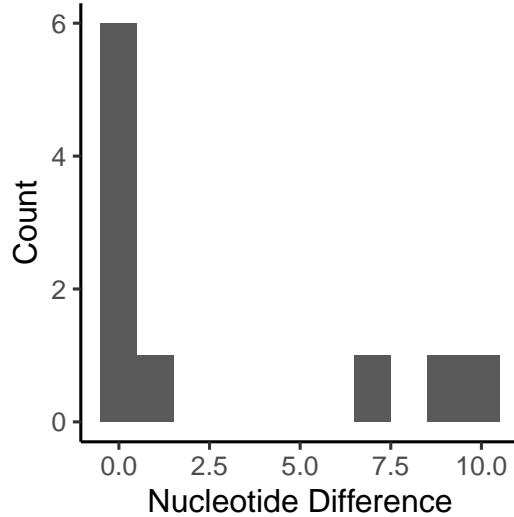
IGHV3-64D*06

935 sequences assigned
387 (41.4%) exact matches, in which:
384 unique CDR3
6 unique J



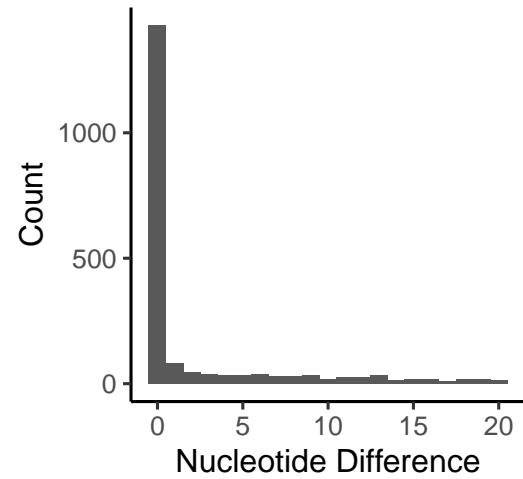
IGHV4-28*01_07

10 sequences assigned
6 (60%) exact matches, in which:
6 unique CDR3
4 unique J



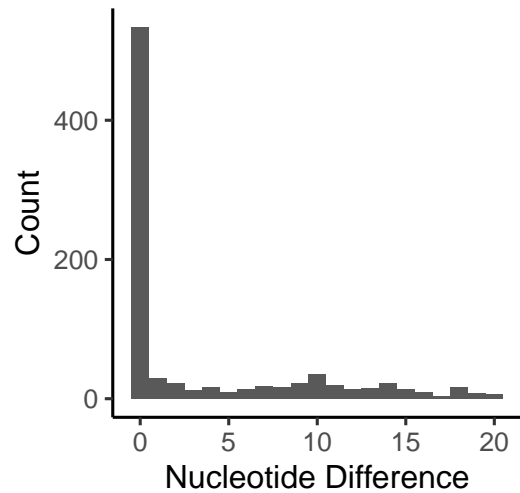
IGHV4-31*02

2084 sequences assigned
1428 (68.5%) exact matches, in which:
1413 unique CDR3
6 unique J



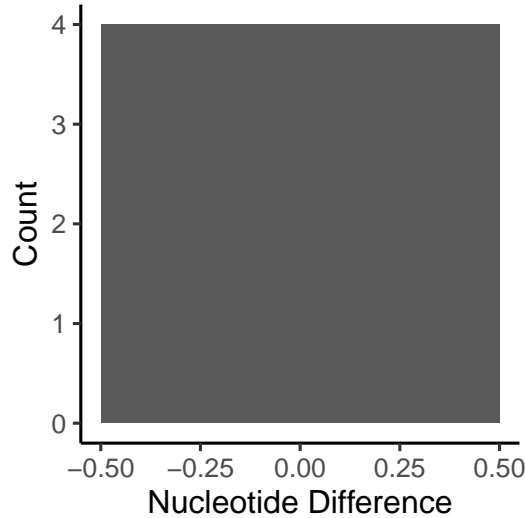
IGHV4-4*02_03

929 sequences assigned
534 (57.5%) exact matches, in which:
530 unique CDR3
6 unique J



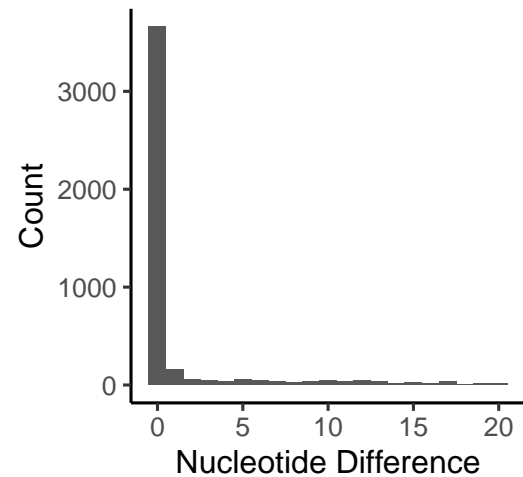
IGHV4-28*02_05

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
2 unique J



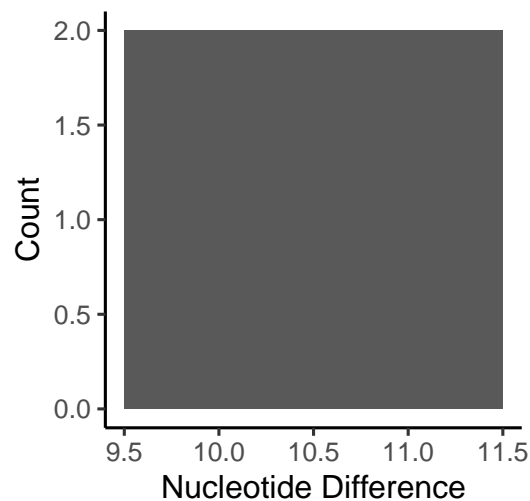
IGHV4-34*01_02

4604 sequences assigned
3660 (79.5%) exact matches, in which:
3601 unique CDR3
6 unique J



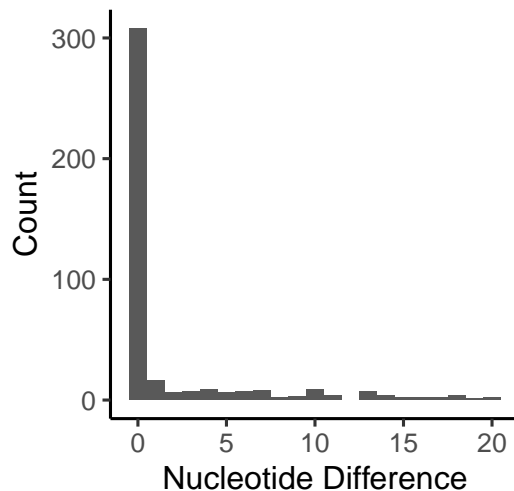
IGHV4-28*03

4 sequences assigned
No exact matches.



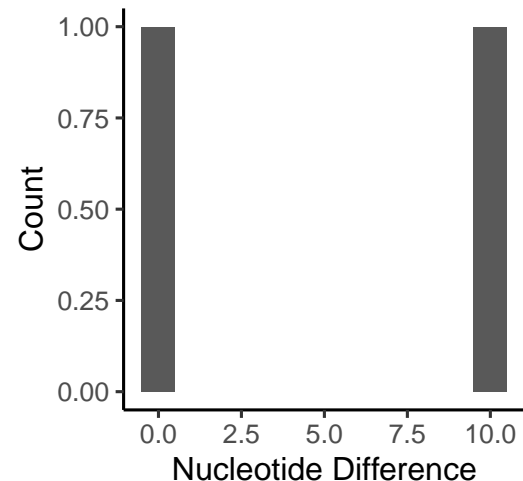
IGHV4-30-2*01

419 sequences assigned
308 (73.5%) exact matches, in which:
305 unique CDR3
6 unique J



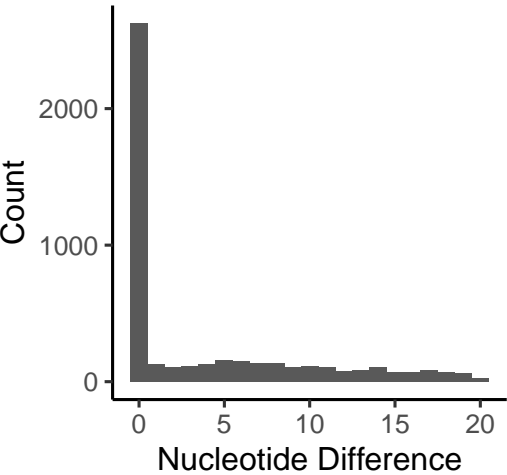
IGHV4-38-2*01

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



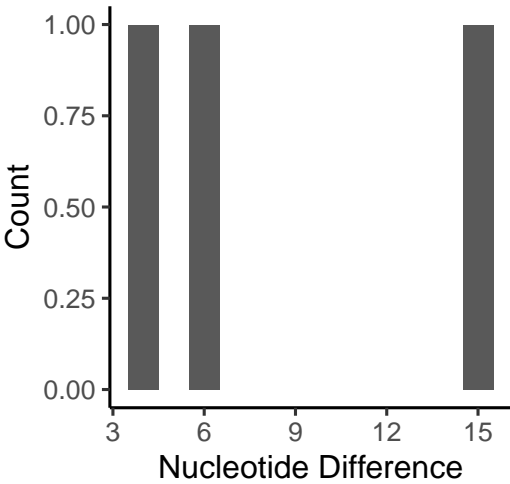
IGHV4-39*02_C258G

4912 sequences assigned
2624 (53.4%) exact matches, in which:
2584 unique CDR3
6 unique J



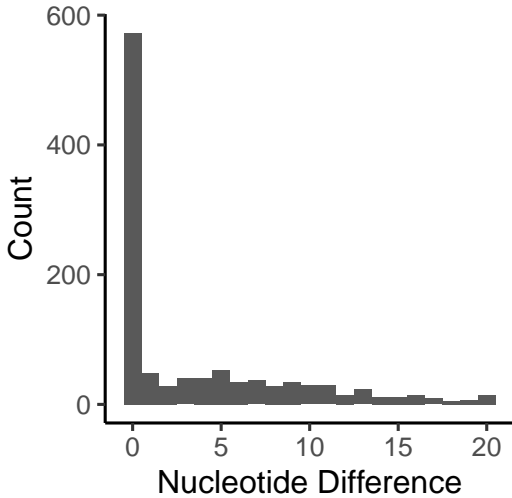
IGHV4/OR15-8*01

4 sequences assigned
No exact matches.



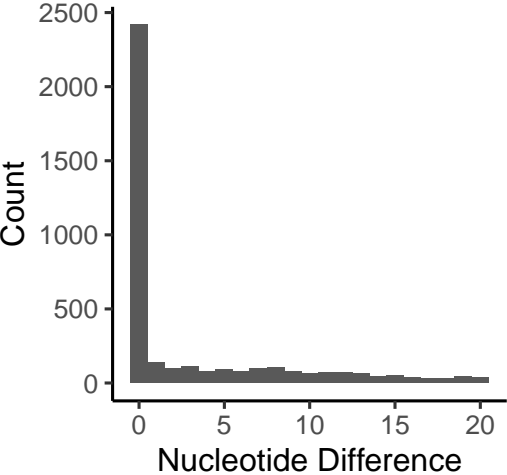
IGHV5-51*07_A128G

1121 sequences assigned
573 (51.1%) exact matches, in which:
572 unique CDR3
6 unique J



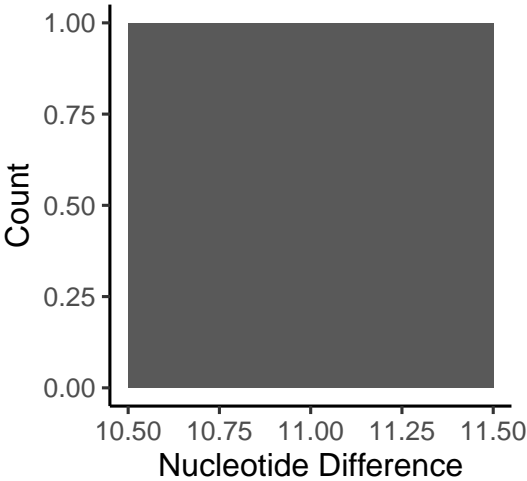
IGHV4-59*02_G88A

4042 sequences assigned
2418 (59.8%) exact matches, in which:
2374 unique CDR3
6 unique J



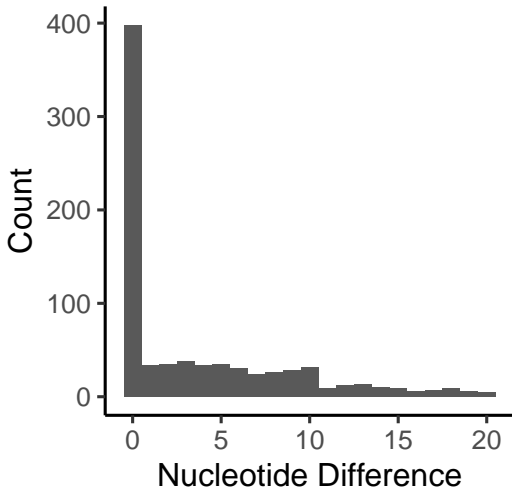
IGHV4/OR15-8*02

10 sequences assigned
No exact matches.



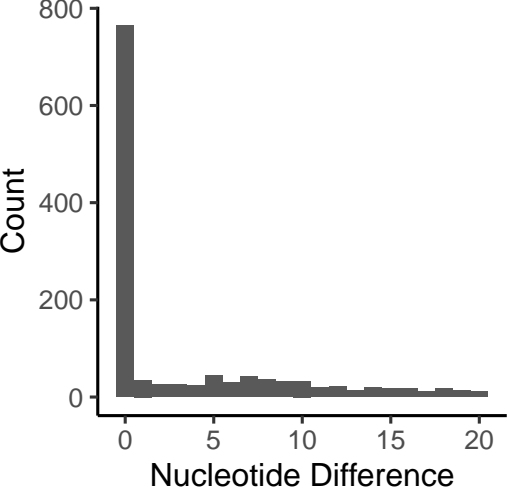
IGHV6-1*01_02

828 sequences assigned
398 (48.1%) exact matches, in which:
398 unique CDR3
6 unique J



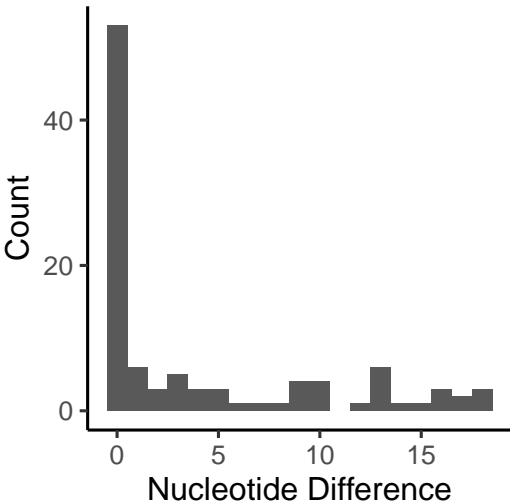
IGHV4-61*01

1330 sequences assigned
765 (57.5%) exact matches, in which:
749 unique CDR3
6 unique J



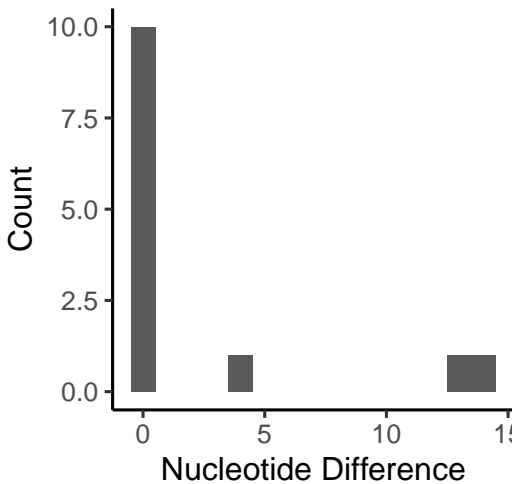
IGHV5-10-1*01_03

109 sequences assigned
53 (48.6%) exact matches, in which:
53 unique CDR3
6 unique J



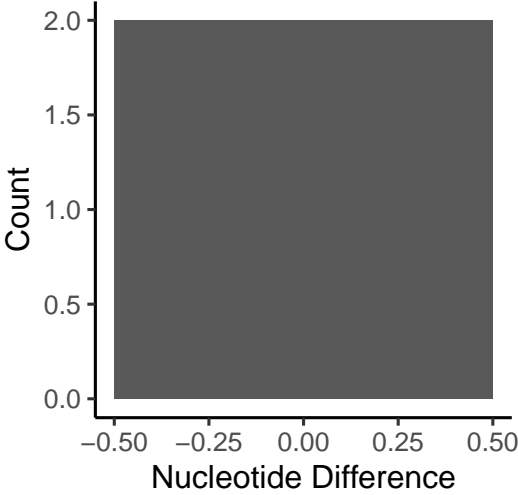
IGHV7-4-1*01

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
4 unique J



IGHV7-81*01

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





Warning – no inferred sequences found.