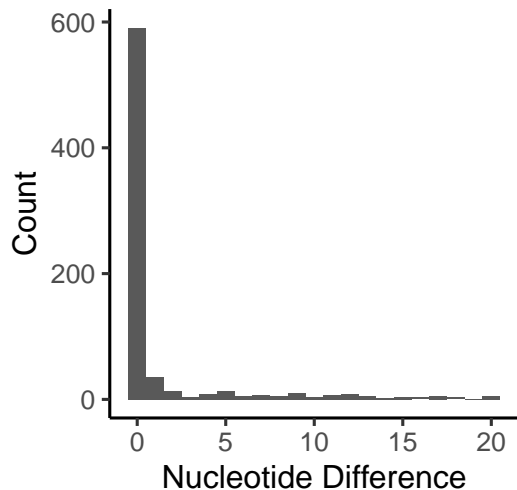


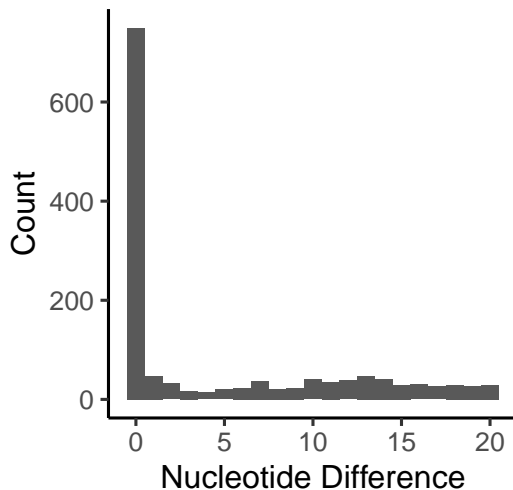
IGHV1-2*04

764 sequences assigned
591 (77.4%) exact matches, in which:
590 unique CDR3
6 unique J



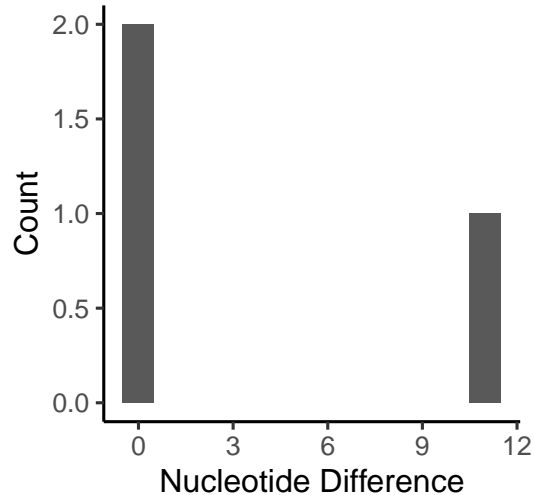
IGHV1-18*01

1479 sequences assigned
750 (50.7%) exact matches, in which:
748 unique CDR3
6 unique J



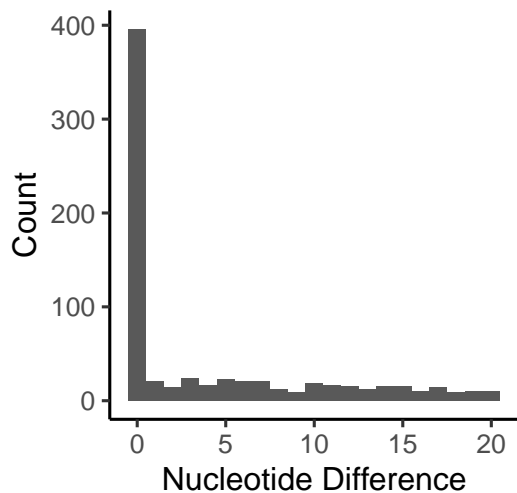
IGHV1-45*02

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



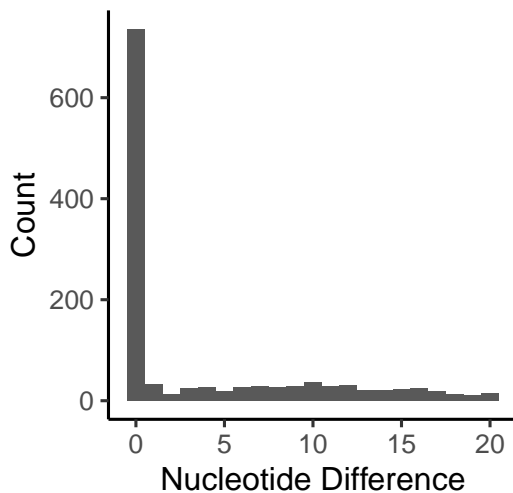
IGHV1-3*01_05

753 sequences assigned
396 (52.6%) exact matches, in which:
394 unique CDR3
6 unique J



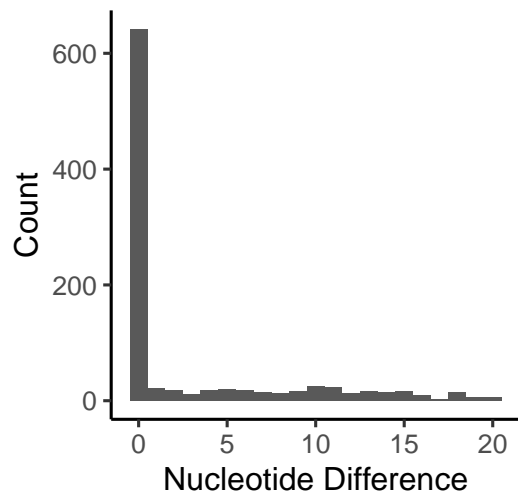
IGHV1-18*04

1272 sequences assigned
736 (57.9%) exact matches, in which:
734 unique CDR3
6 unique J



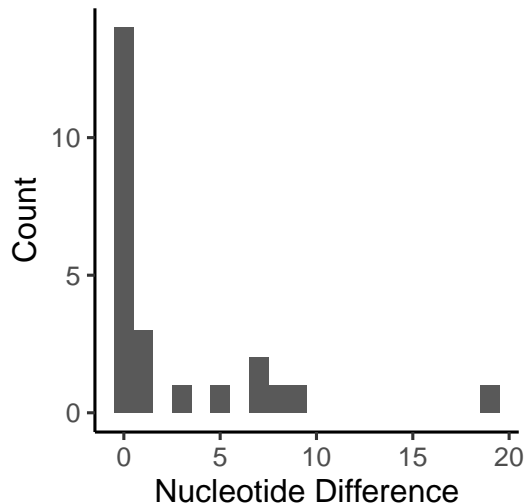
IGHV1-46*01

988 sequences assigned
642 (65%) exact matches, in which:
639 unique CDR3
6 unique J



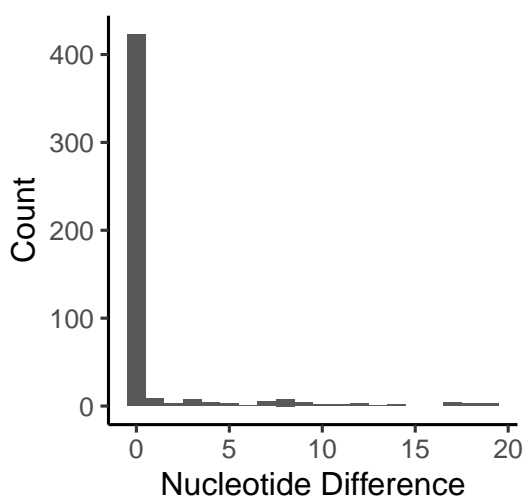
IGHV1-8*01

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



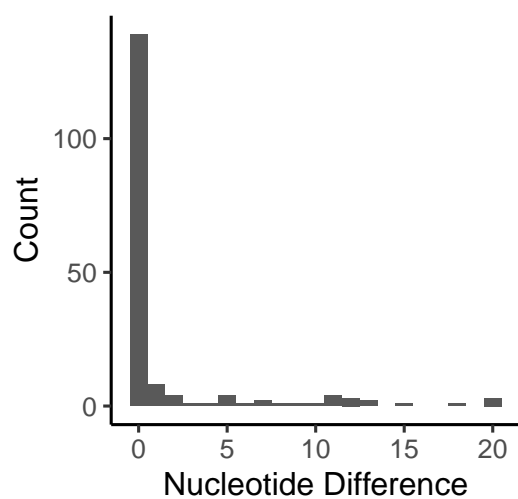
IGHV1-24*01

495 sequences assigned
423 (85.5%) exact matches, in which:
422 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



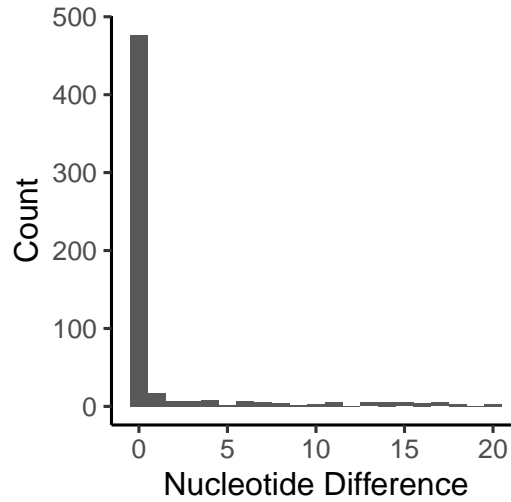
IGHV1-68*01

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



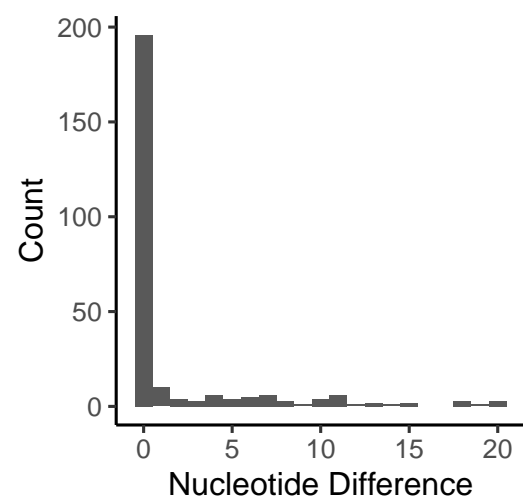
IGHV1-69*06_14

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



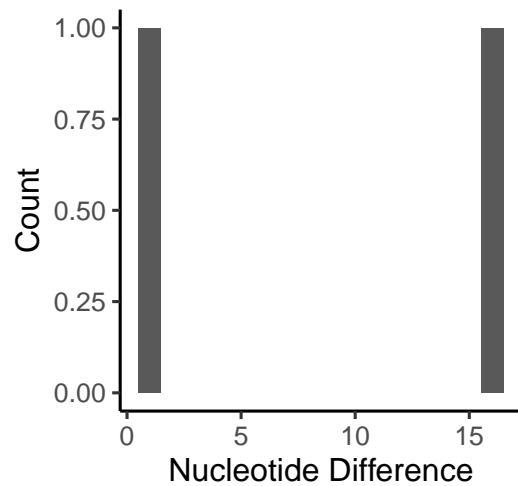
IGHV2-70*01

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



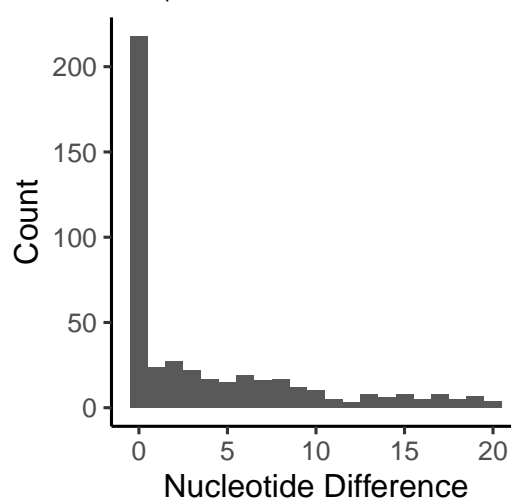
IGHV1-69-2*01

4 sequences assigned
No exact matches.



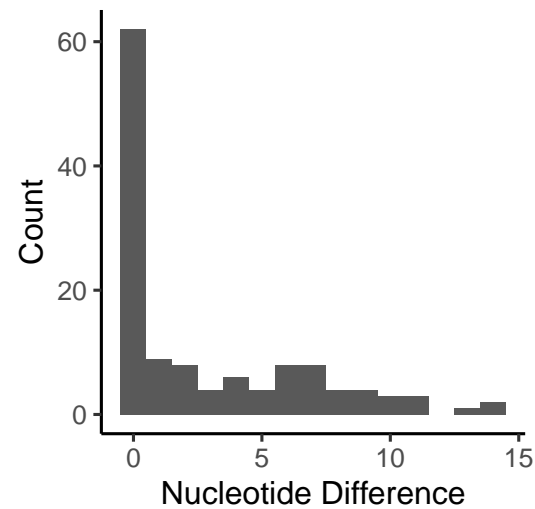
IGHV2-5*02

477 sequences assigned
218 (45.7%) exact matches, in which:
217 unique CDR3
6 unique J



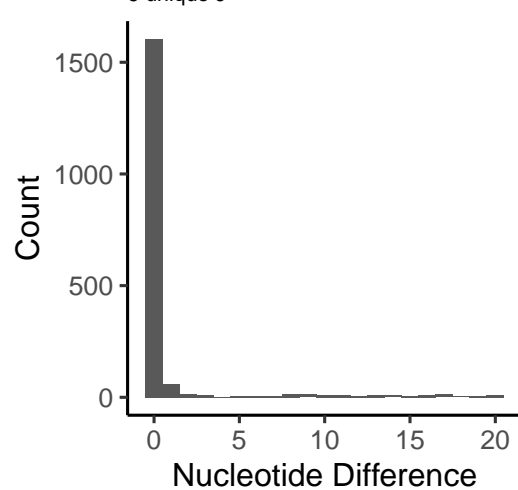
IGHV2-70*04

126 sequences assigned
62 (49.2%) exact matches, in which:
62 unique CDR3
5 unique J



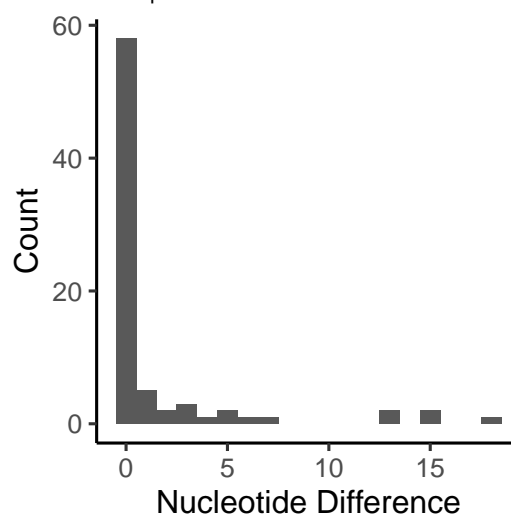
IGHV1-69*01_12_13

1948 sequences assigned
1604 (82.3%) exact matches, in which:
1600 unique CDR3
6 unique J



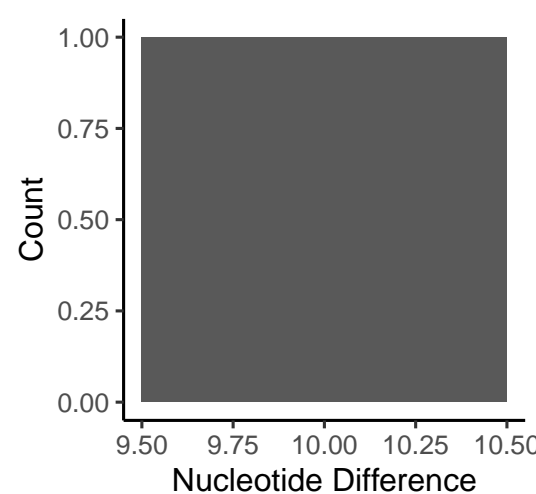
IGHV2-26*01

80 sequences assigned
58 (72.5%) exact matches, in which:
58 unique CDR3
5 unique J



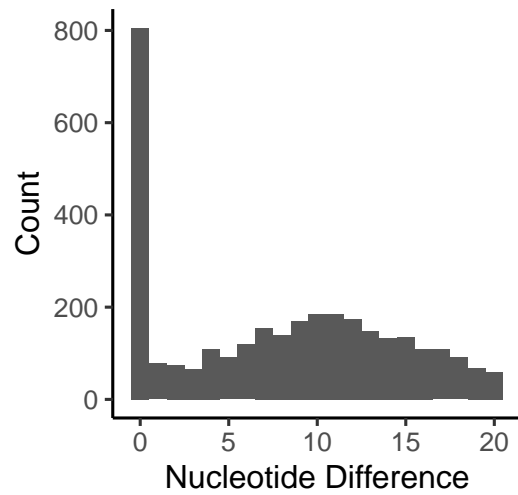
IGHV2-70D*14

1 sequences assigned
No exact matches.



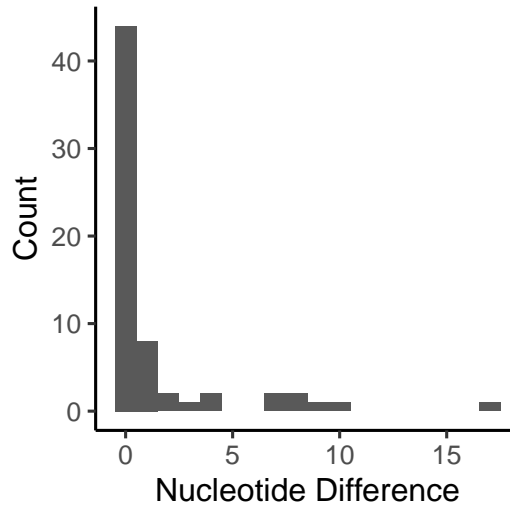
IGHV3-7*03

3451 sequences assigned
806 (23.4%) exact matches, in which:
793 unique CDR3
6 unique J



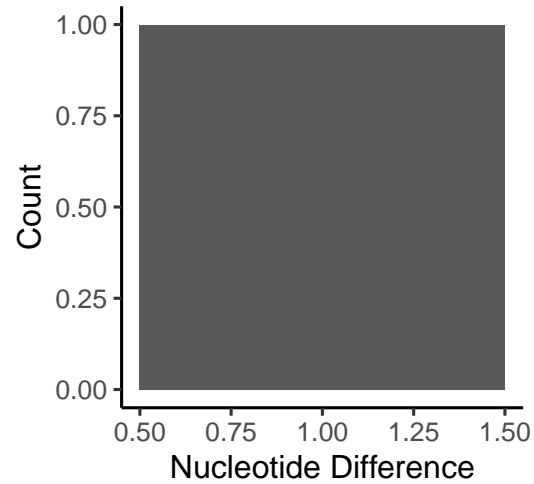
IGHV3-13*05

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



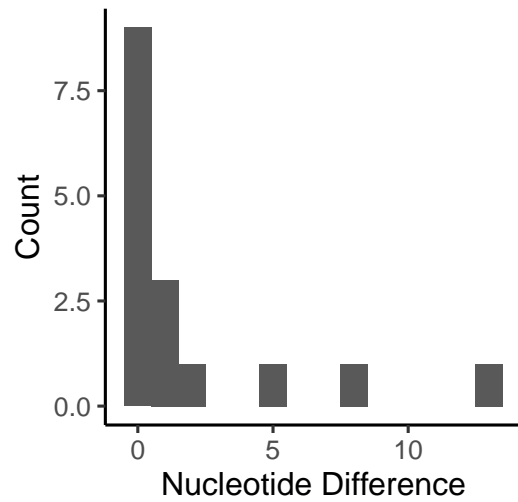
IGHV3-19*01

1 sequences assigned
No exact matches.



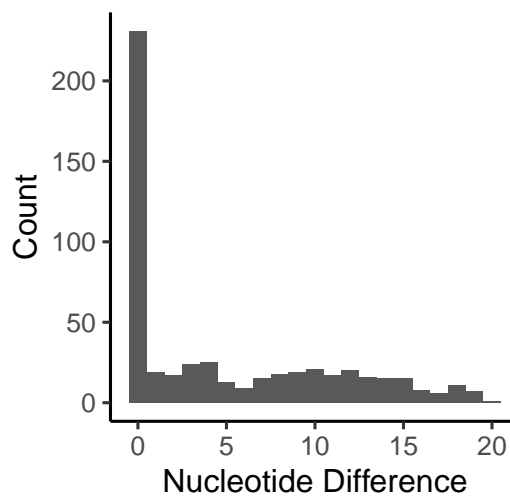
IGHV3-9*01

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



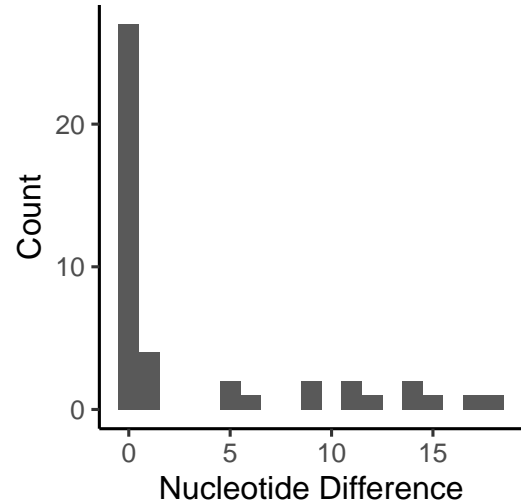
IGHV3-15*07

557 sequences assigned
231 (41.5%) exact matches, in which:
229 unique CDR3
6 unique J



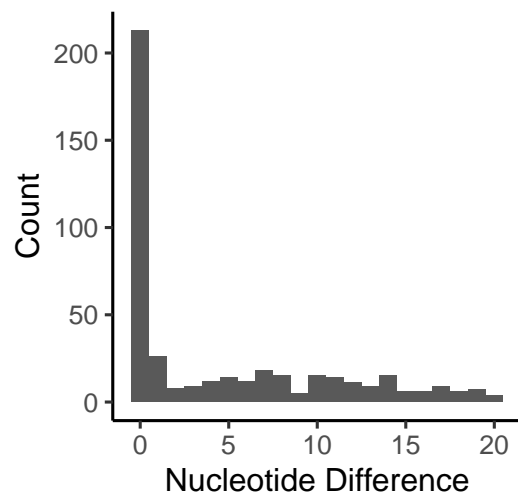
IGHV3-20*03_04

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



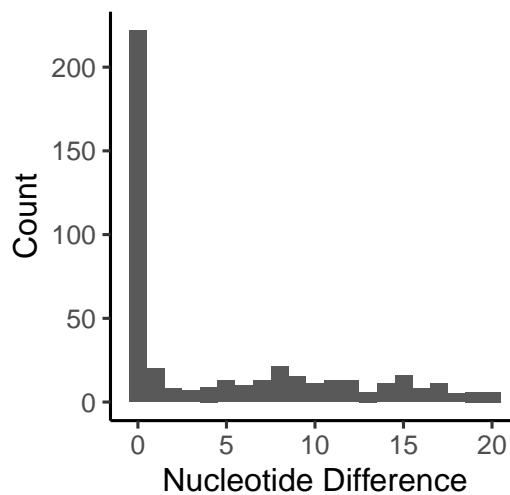
IGHV3-11*06

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



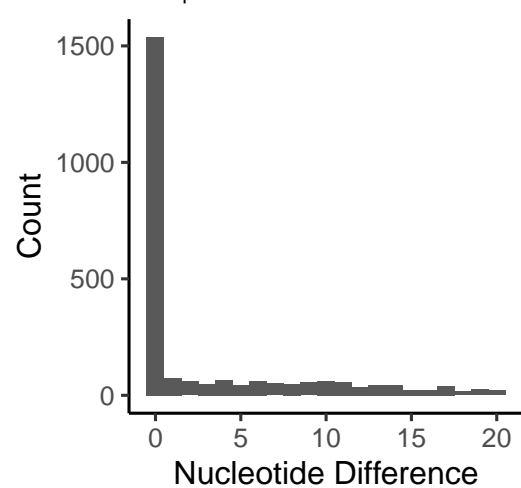
IGHV3-15*01_02

481 sequences assigned
222 (46.2%) exact matches, in which:
218 unique CDR3
6 unique J



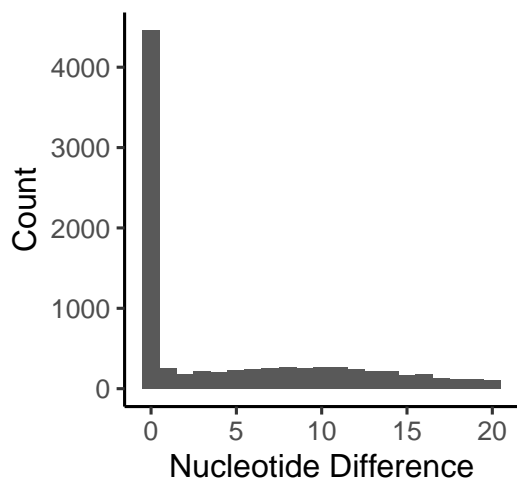
IGHV3-21*01_02

2516 sequences assigned
1538 (61.1%) exact matches, in which:
1504 unique CDR3
6 unique J



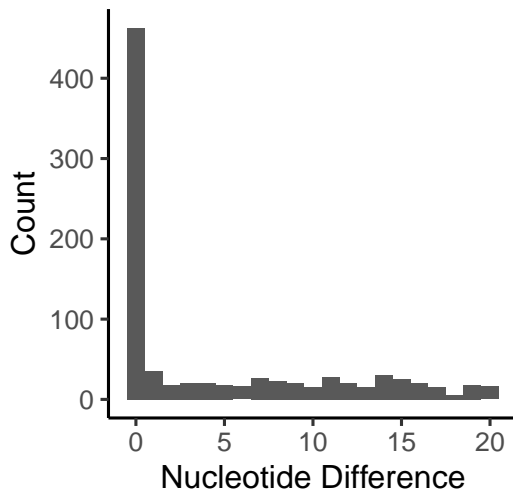
IGHV3-23*01_04

9145 sequences assigned
4458 (48.7%) exact matches, in which:
4378 unique CDR3
6 unique J



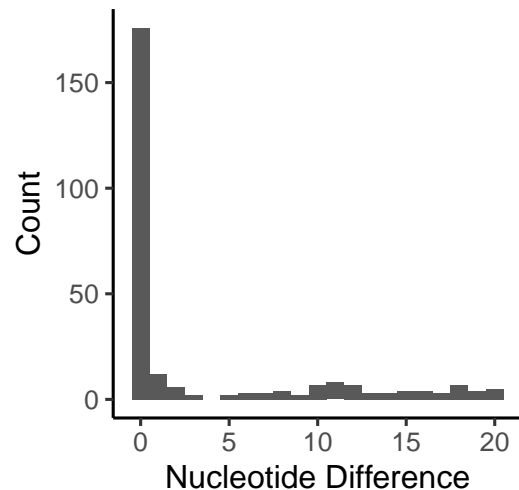
IGHV3-30*18

926 sequences assigned
463 (50%) exact matches, in which:
454 unique CDR3
6 unique J



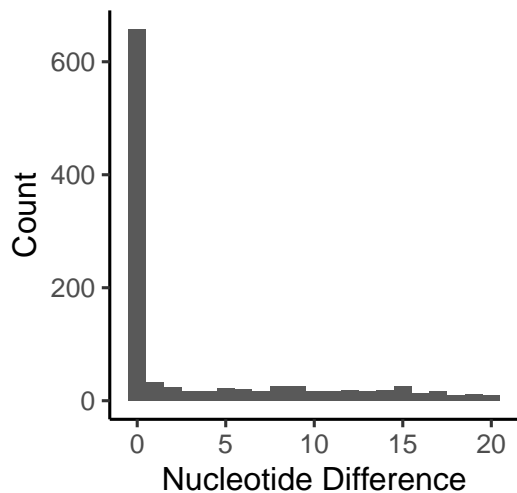
IGHV3-43*01

276 sequences assigned
176 (63.8%) exact matches, in which:
175 unique CDR3
6 unique J



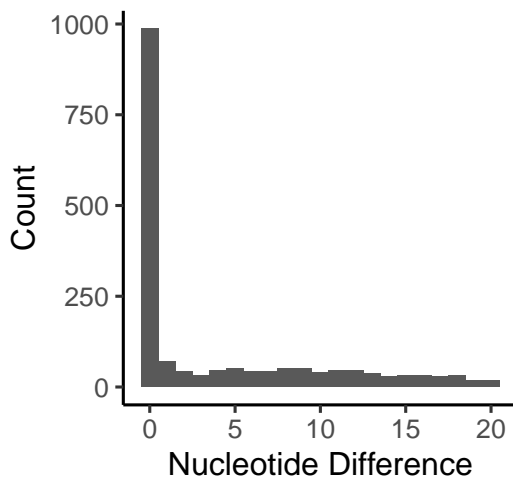
IGHV3-30-3*01

1072 sequences assigned
658 (61.4%) exact matches, in which:
648 unique CDR3
6 unique J



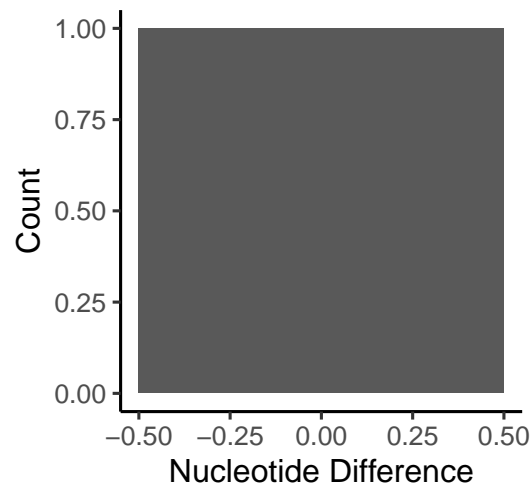
IGHV3-33*01

1846 sequences assigned
987 (53.5%) exact matches, in which:
976 unique CDR3
6 unique J



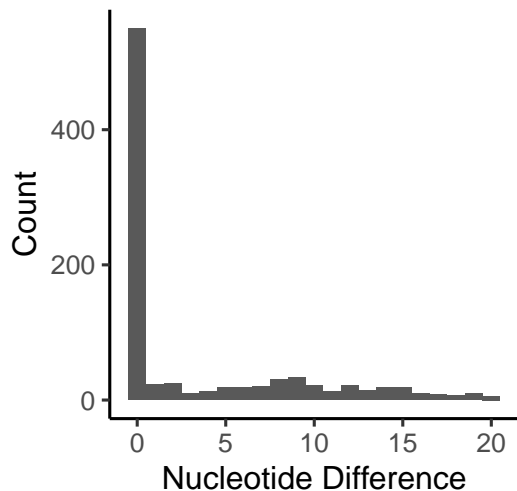
IGHV3-47*02

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



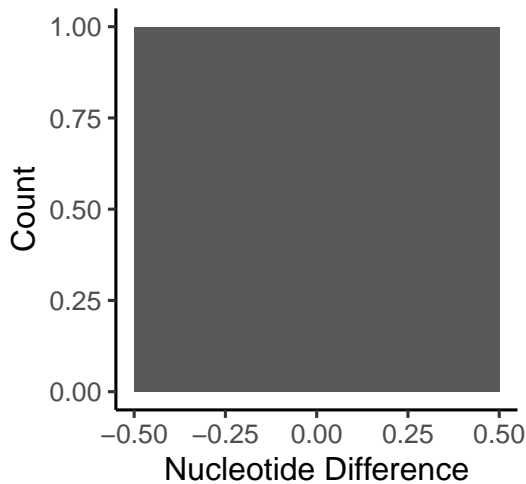
IGHV3-30*04

934 sequences assigned
550 (58.9%) exact matches, in which:
546 unique CDR3
6 unique J



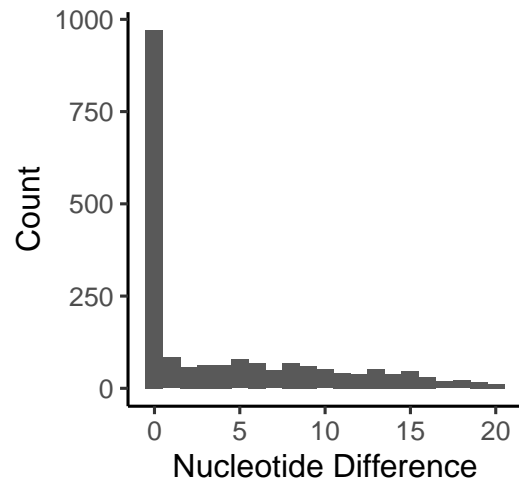
IGHV3-35*01

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



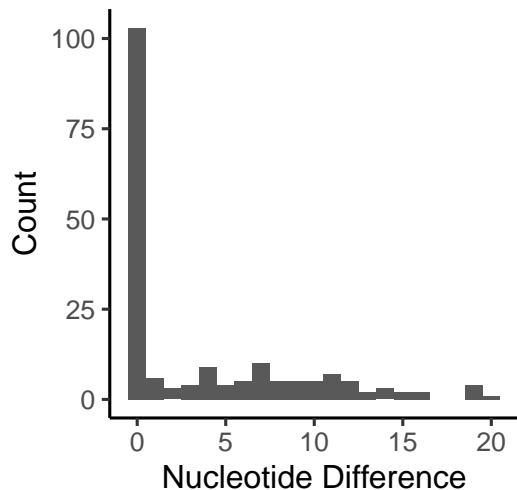
IGHV3-48*02

2016 sequences assigned
971 (48.2%) exact matches, in which:
952 unique CDR3
6 unique J



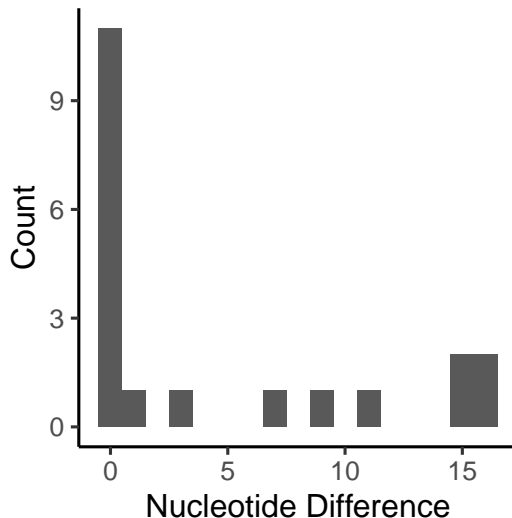
IGHV3-49*03_05

191 sequences assigned
103 (53.9%) exact matches, in which:
103 unique CDR3
4 unique J



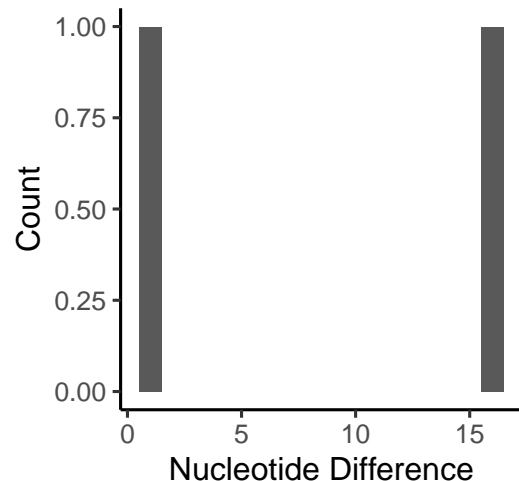
IGHV3-64*02_07

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.



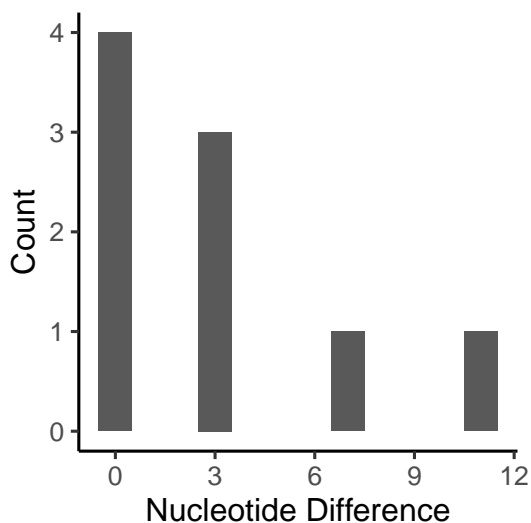
IGHV3-52*01_03

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



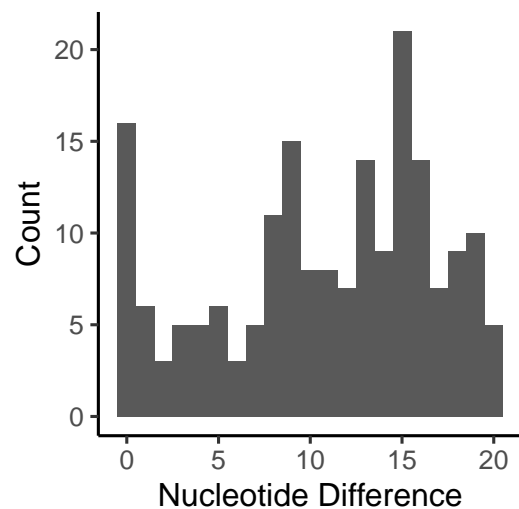
IGHV3-66*03

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



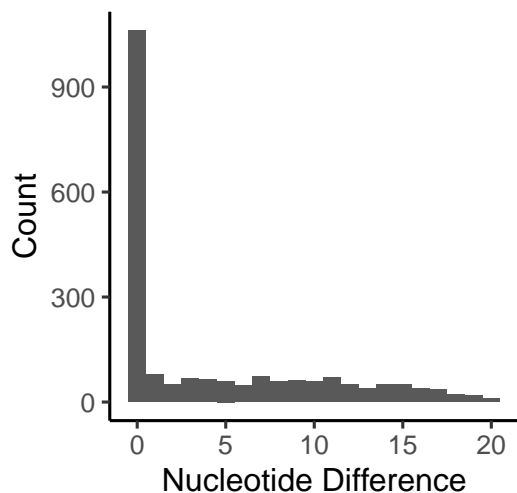
IGHV3-72*01

196 sequences assigned
16 (8.2%) exact matches, in which:
14 unique CDR3
5 unique J



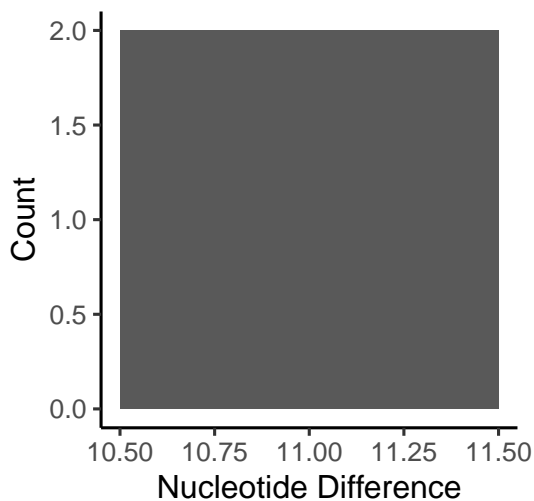
IGHV3-53*01_02

2147 sequences assigned
1062 (49.5%) exact matches, in which:
1044 unique CDR3
6 unique J



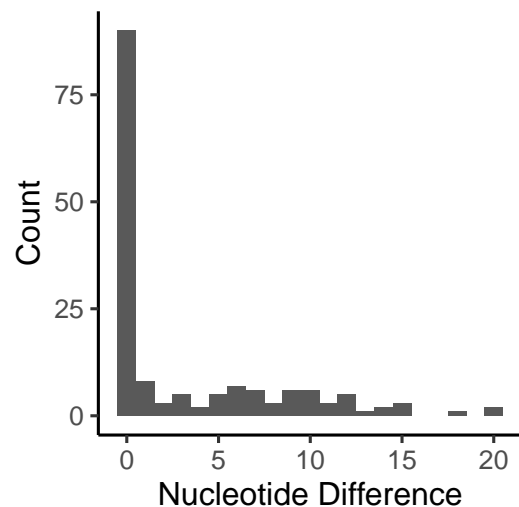
IGHV3-66*04

2 sequences assigned
No exact matches.



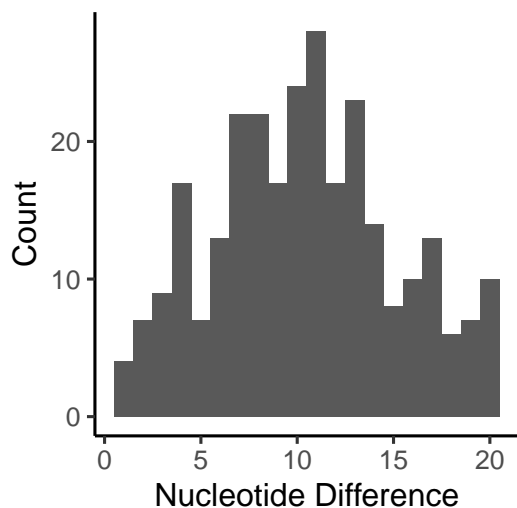
IGHV3-73*01_02

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



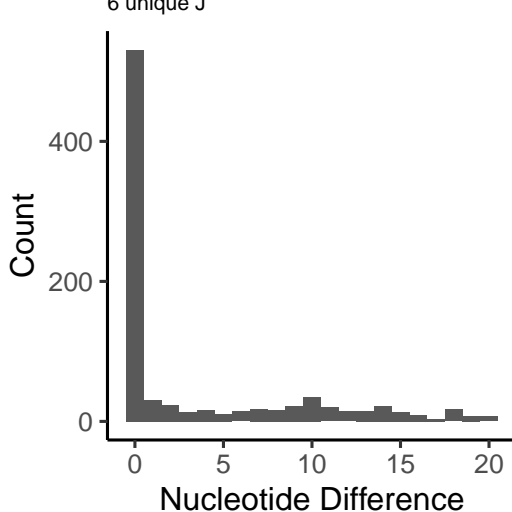
IGHV3-74*03

317 sequences assigned
No exact matches.



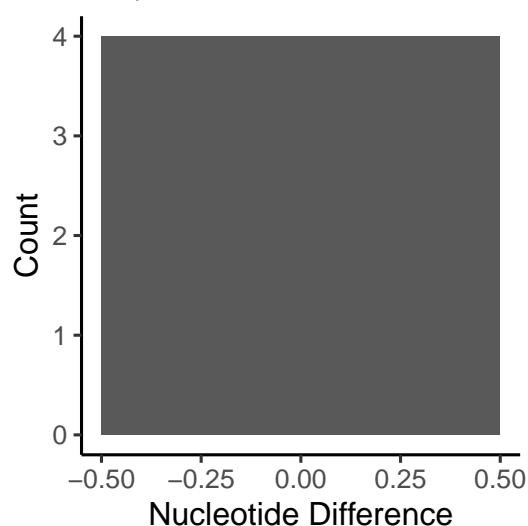
IGHV4-4*02_03

923 sequences assigned
531 (57.5%) exact matches, in which:
527 unique CDR3
6 unique J



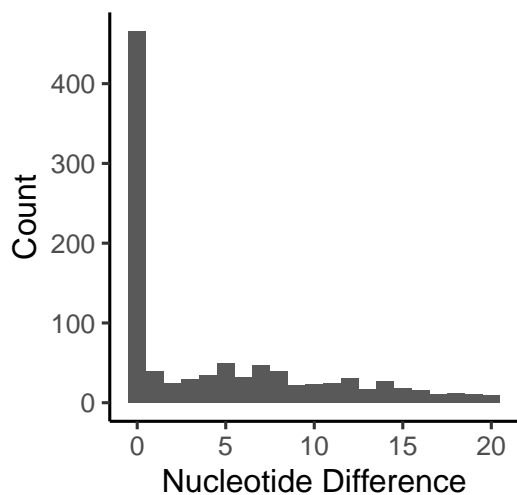
IGHV4-28*02_05

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



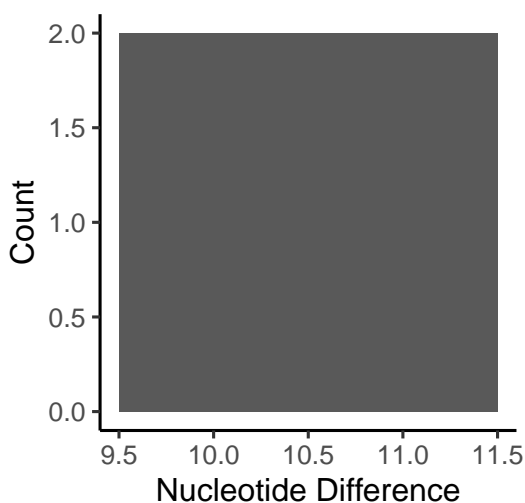
IGHV3-74*01_02

1015 sequences assigned
466 (45.9%) exact matches, in which:
451 unique CDR3
6 unique J



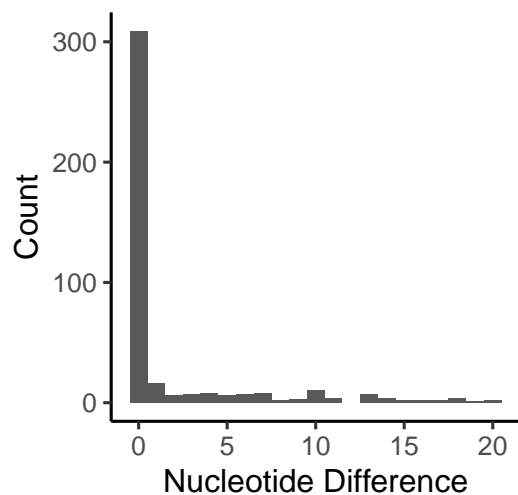
IGHV4-28*03

4 sequences assigned
No exact matches.



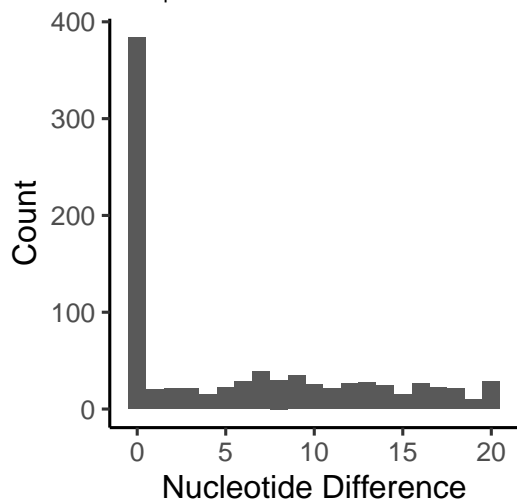
IGHV4-30-2*01

420 sequences assigned
309 (73.6%) exact matches, in which:
305 unique CDR3
6 unique J



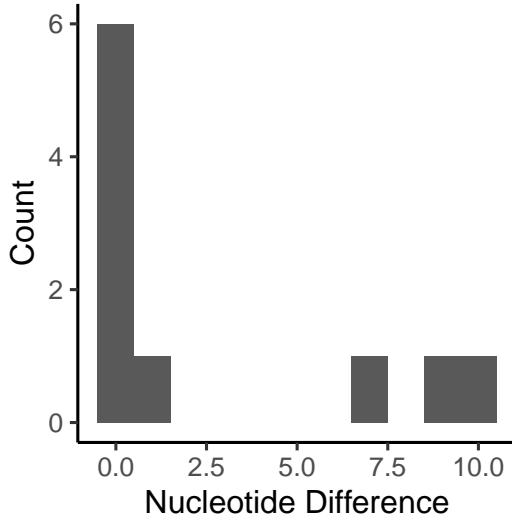
IGHV3-64D*06

932 sequences assigned
384 (41.2%) exact matches, in which:
381 unique CDR3
6 unique J



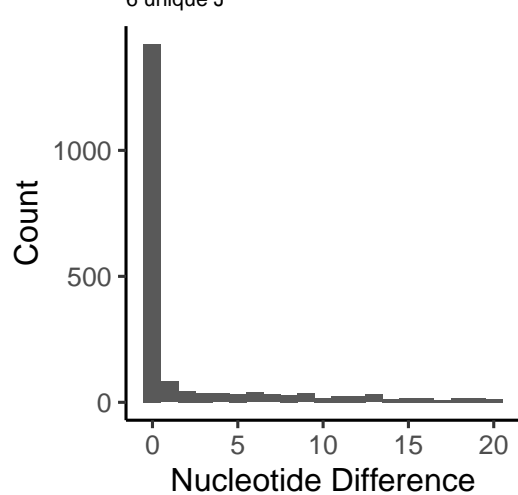
IGHV4-28*01_07

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



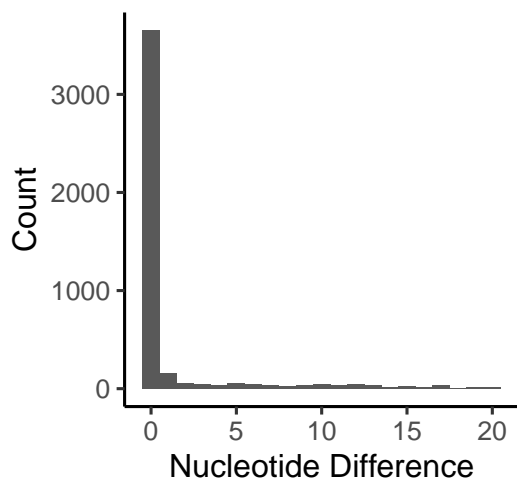
IGHV4-31*02

2080 sequences assigned
1422 (68.4%) exact matches, in which:
1407 unique CDR3
6 unique J



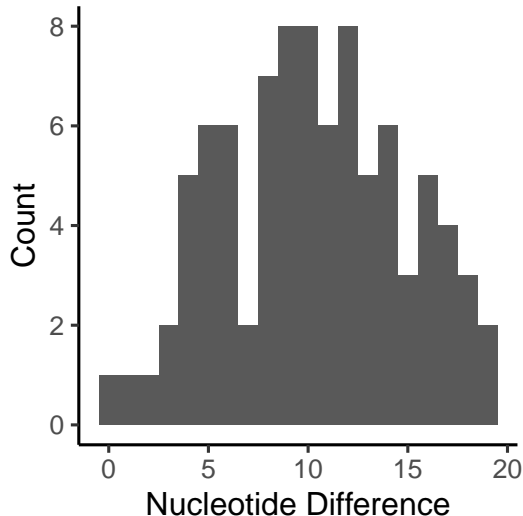
IGHV4-34*01_02

4595 sequences assigned
3652 (79.5%) exact matches, in which:
3590 unique CDR3
6 unique J



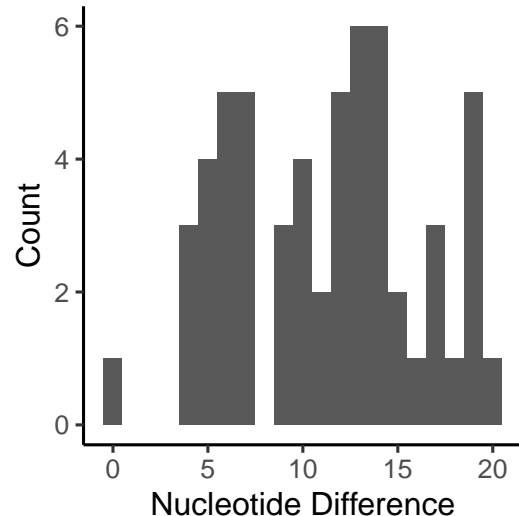
IGHV4-39*02

124 sequences assigned
1 (0.8%) exact matches, in which:
1 unique CDR3
1 unique J



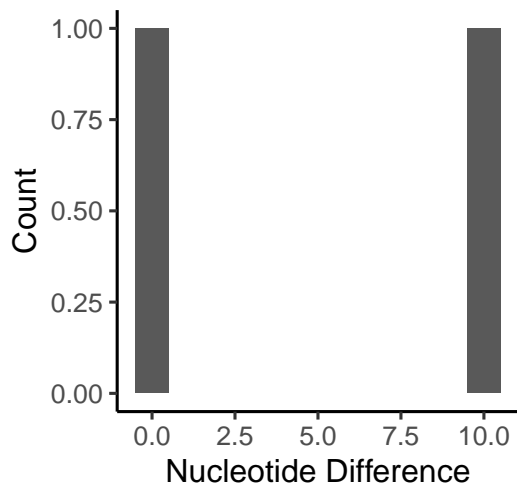
IGHV4-59*11

76 sequences assigned
1 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



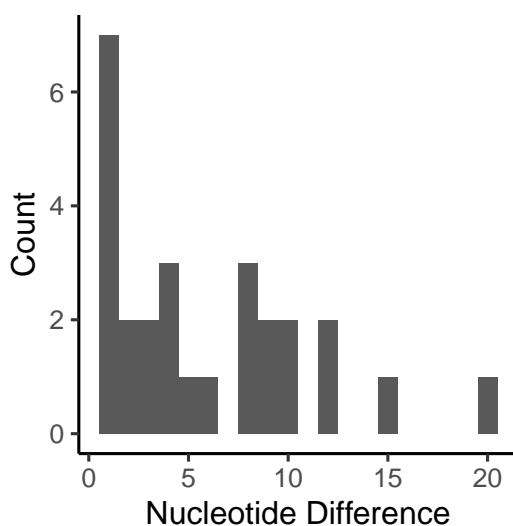
IGHV4-38-2*01

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



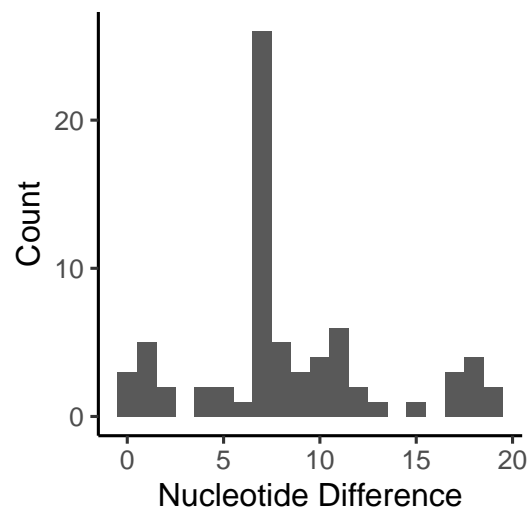
IGHV4-39*07

29 sequences assigned
No exact matches.



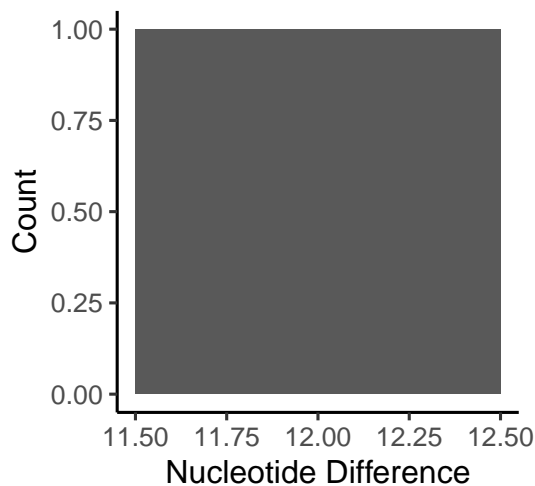
IGHV4-59*12

82 sequences assigned
3 (3.7%) exact matches, in which:
3 unique CDR3
2 unique J



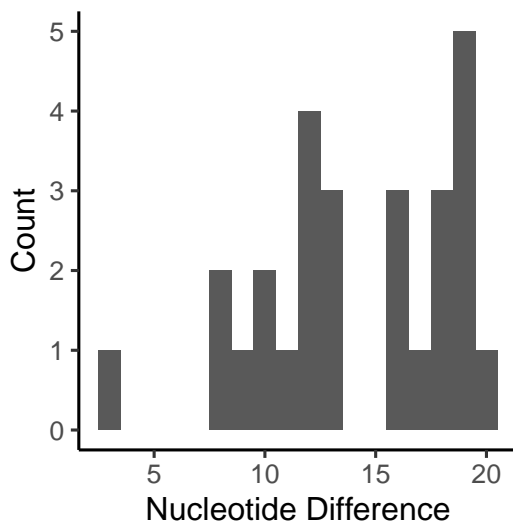
IGHV4-38-2*02

3 sequences assigned
No exact matches.



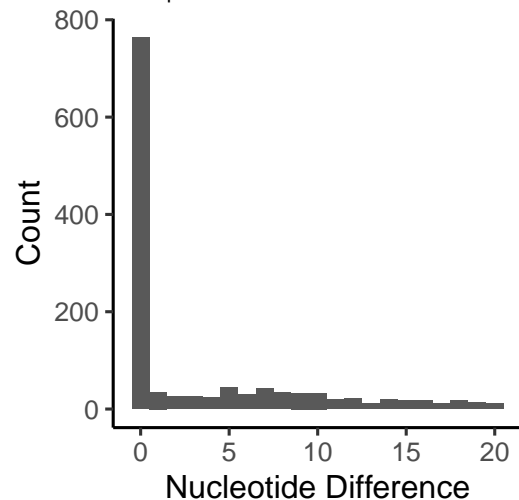
IGHV4-59*02

33 sequences assigned
No exact matches.



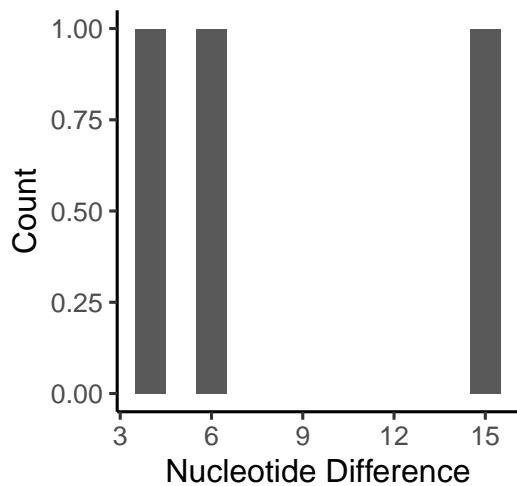
IGHV4-61*01

1326 sequences assigned
764 (57.6%) exact matches, in which:
747 unique CDR3
6 unique J



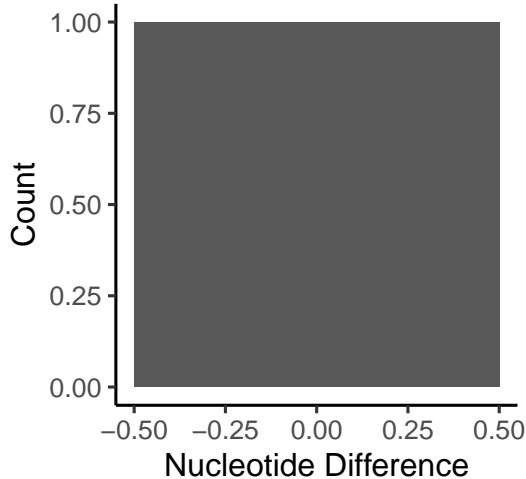
IGHV4/OR15–8*01

4 sequences assigned
No exact matches.



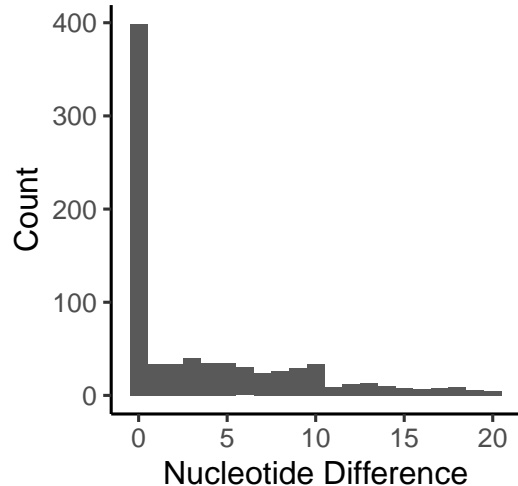
IGHV5–51*04

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



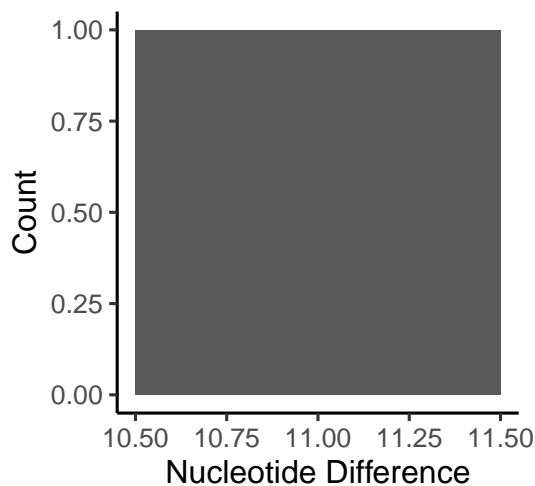
IGHV6–1*01_02

836 sequences assigned
399 (47.7%) exact matches, in which:
398 unique CDR3
6 unique J



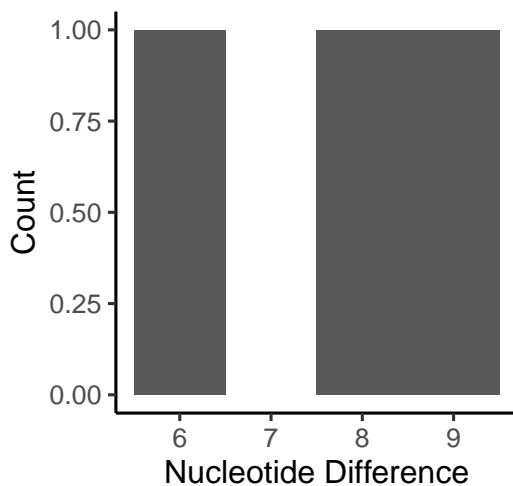
IGHV4/OR15–8*02

10 sequences assigned
No exact matches.



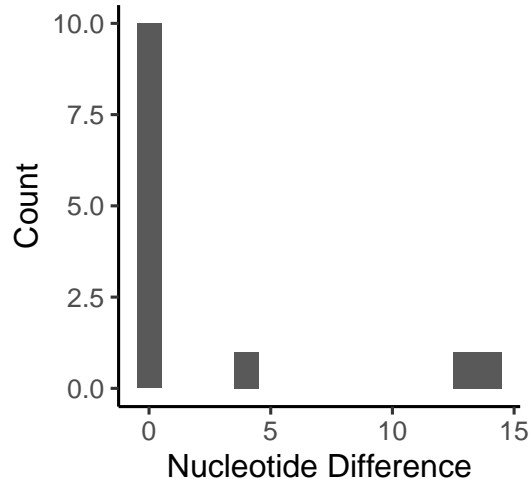
IGHV5–51*06

3 sequences assigned
No exact matches.



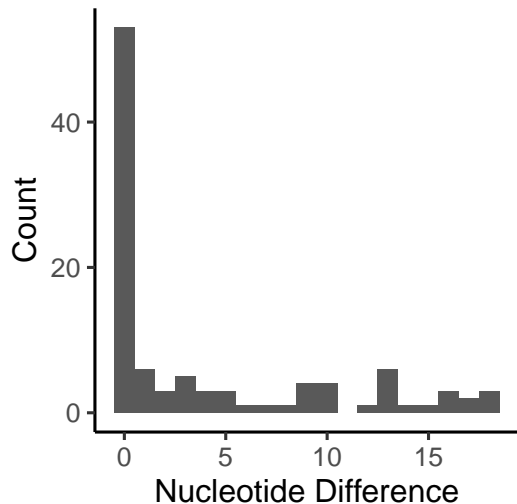
IGHV7–4–1*01

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



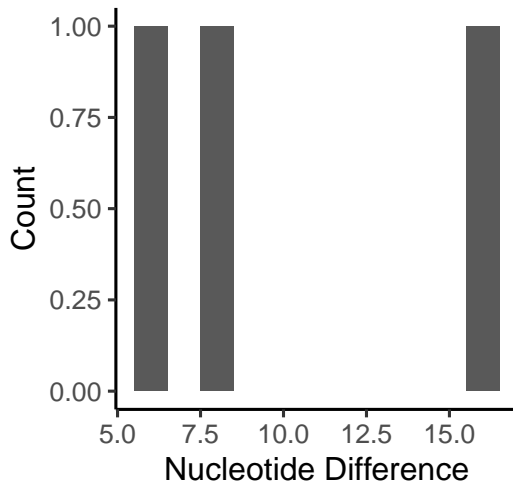
IGHV5–10–1*01_03

108 sequences assigned
53 (49.1%) exact matches, in which:
53 unique CDR3
6 unique J



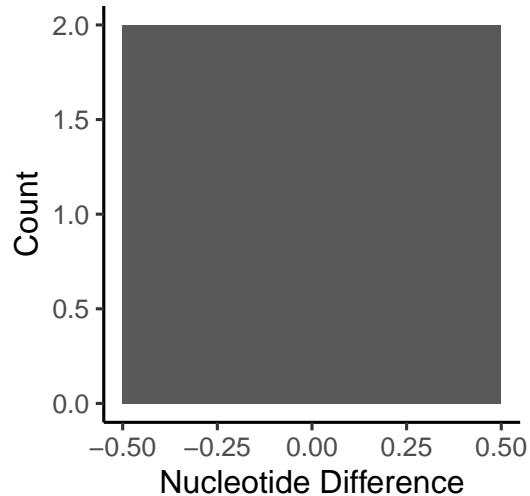
IGHV5–51*07

4 sequences assigned
No exact matches.



IGHV7–81*01

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





Warning – no inferred sequences found.