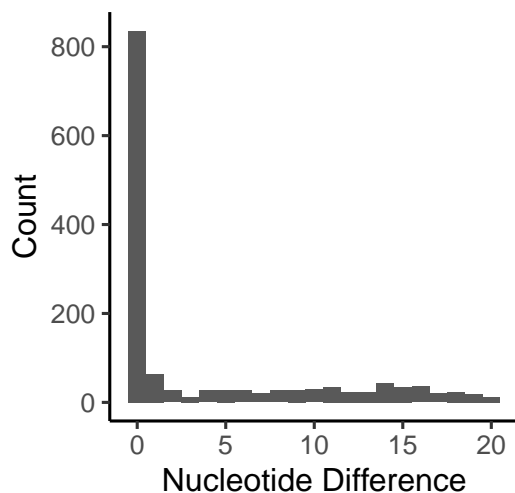


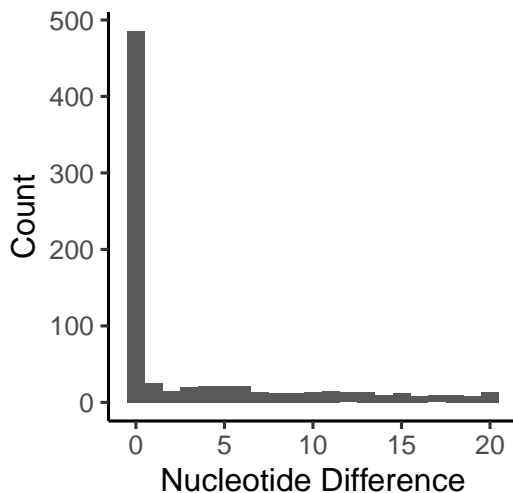
IGHV1-2*02

1488 sequences assigned
836 (56.2%) exact matches, in which:
817 unique CDR3
6 unique J



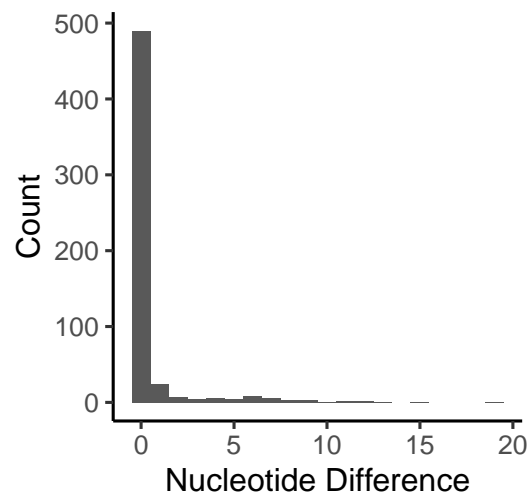
IGHV1-3*01_05

821 sequences assigned
486 (59.2%) exact matches, in which:
484 unique CDR3
7 unique J



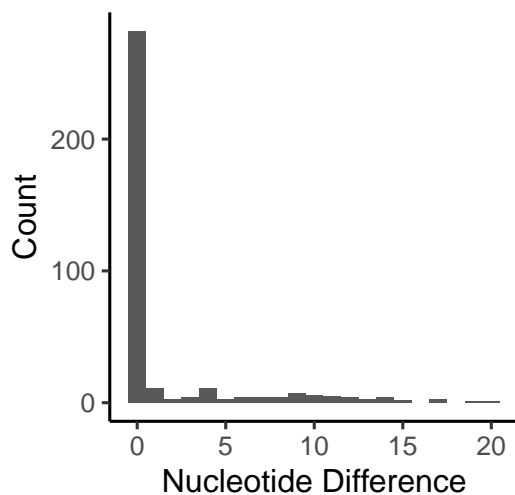
IGHV1-24*01

569 sequences assigned
490 (86.1%) exact matches, in which:
483 unique CDR3
7 unique J



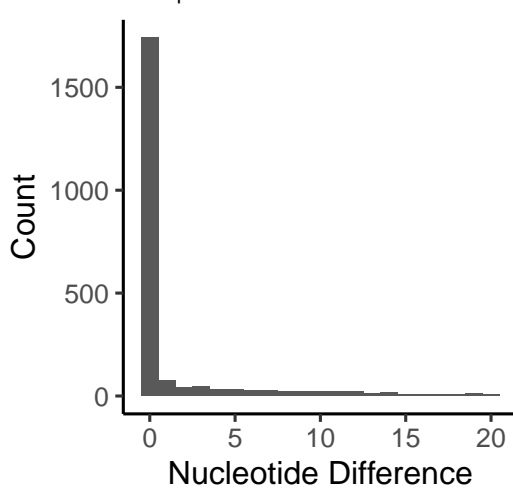
IGHV1-2*04

364 sequences assigned
282 (77.5%) exact matches, in which:
281 unique CDR3
7 unique J



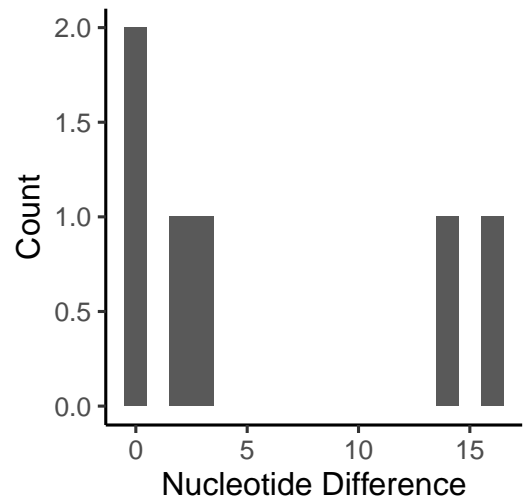
IGHV1-8*01

2237 sequences assigned
1741 (77.8%) exact matches, in which:
1714 unique CDR3
7 unique J



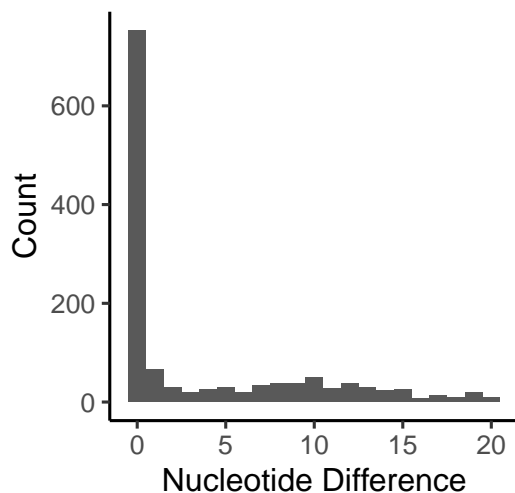
IGHV1-45*02

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
1 unique J



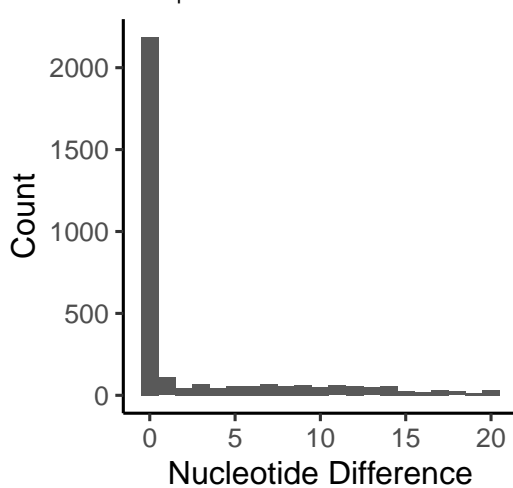
IGHV1-2*06

1411 sequences assigned
753 (53.4%) exact matches, in which:
726 unique CDR3
7 unique J



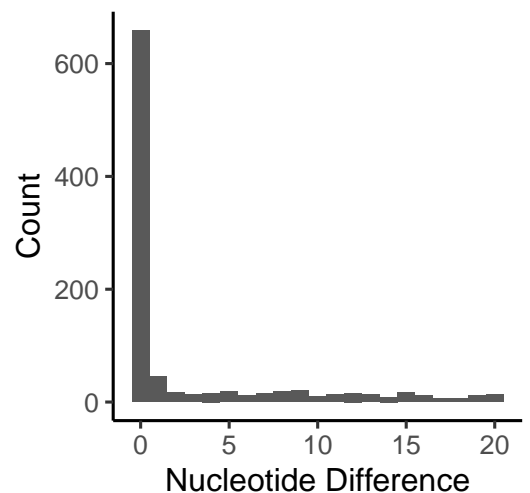
IGHV1-18*01

3325 sequences assigned
2187 (65.8%) exact matches, in which:
2150 unique CDR3
7 unique J



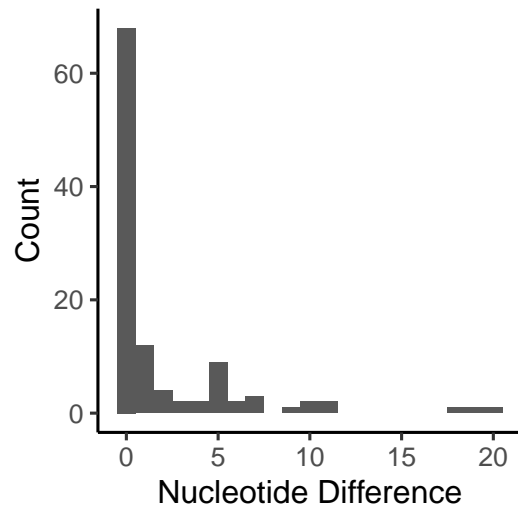
IGHV1-46*01

1023 sequences assigned
659 (64.4%) exact matches, in which:
651 unique CDR3
7 unique J



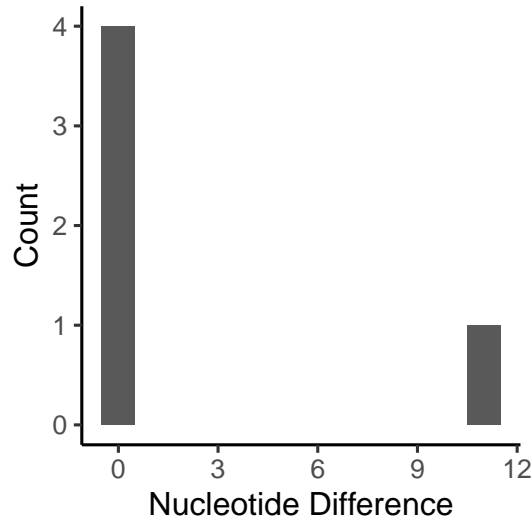
IGHV1-58*02

111 sequences assigned
68 (61.3%) exact matches, in which:
66 unique CDR3
5 unique J



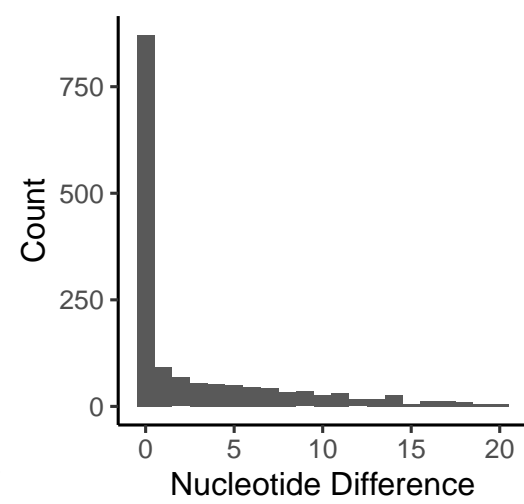
IGHV1-69-2*01

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
2 unique J



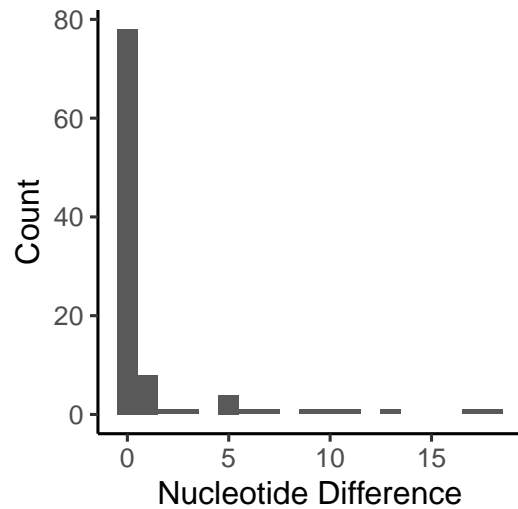
IGHV2-5*02

1557 sequences assigned
872 (56%) exact matches, in which:
862 unique CDR3
7 unique J



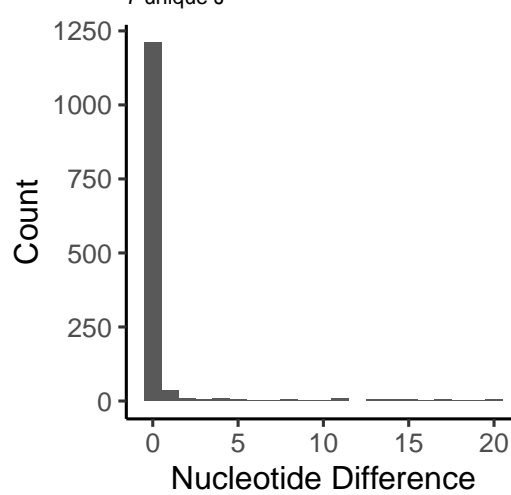
IGHV1-58*01_03

100 sequences assigned
78 (78%) exact matches, in which:
78 unique CDR3
7 unique J



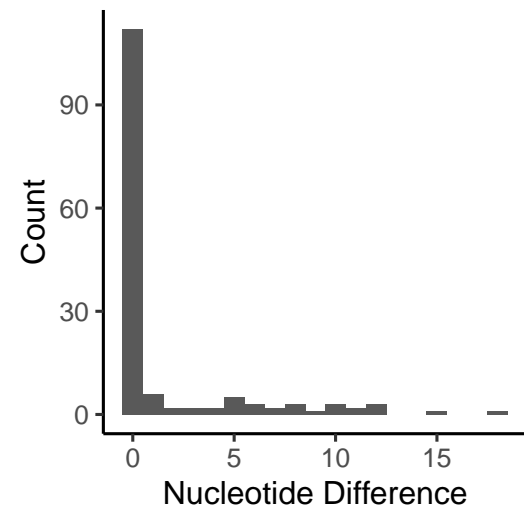
IGHV1-69*01_12_13

1339 sequences assigned
1210 (90.4%) exact matches, in which:
1210 unique CDR3
7 unique J



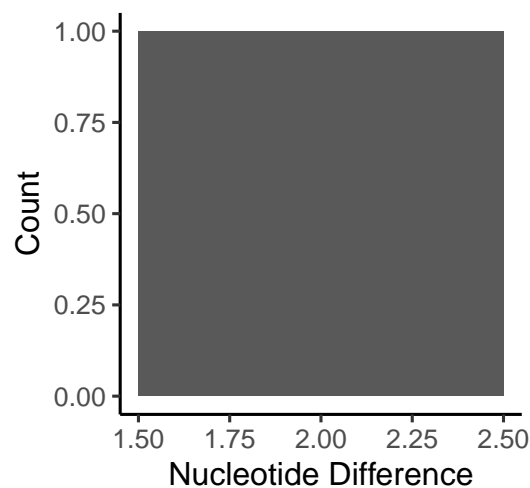
IGHV2-26*01

149 sequences assigned
112 (75.2%) exact matches, in which:
111 unique CDR3
6 unique J



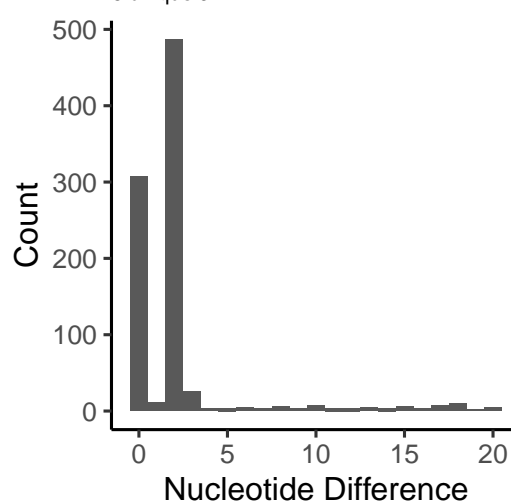
IGHV1-68*02_03

1 sequences assigned
No exact matches.



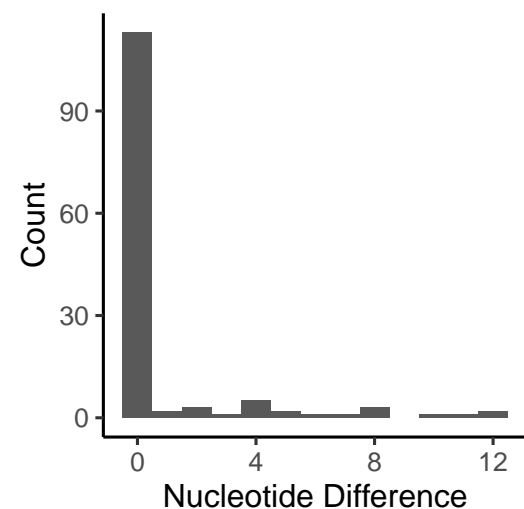
IGHV1-69*06_14

936 sequences assigned
307 (32.8%) exact matches, in which:
307 unique CDR3
6 unique J



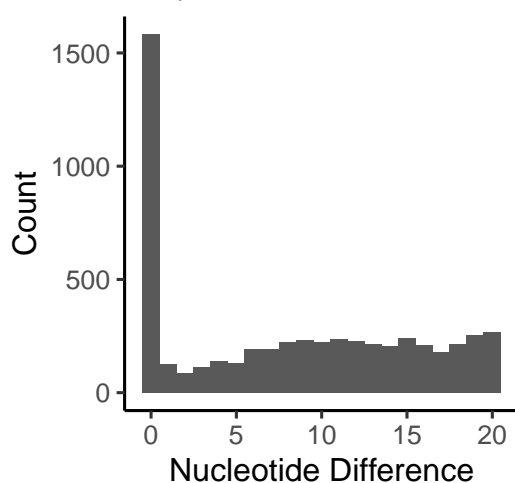
IGHV2-70*01

136 sequences assigned
113 (83.1%) exact matches, in which:
113 unique CDR3
6 unique J



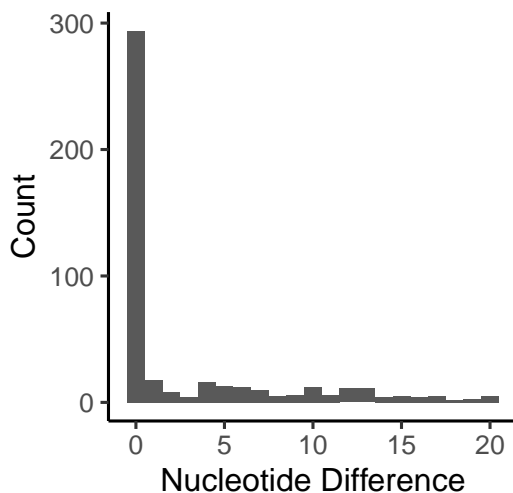
IGHV3-7*01

6517 sequences assigned
1582 (24.3%) exact matches, in which:
1528 unique CDR3
7 unique J



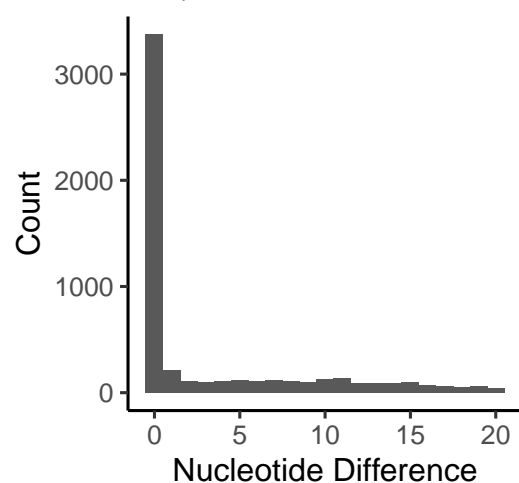
IGHV3-13*01

482 sequences assigned
294 (61%) exact matches, in which:
286 unique CDR3
6 unique J



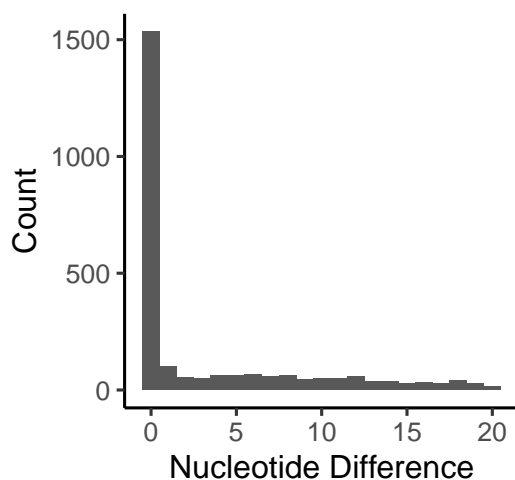
IGHV3-21*01_02

5645 sequences assigned
3374 (59.8%) exact matches, in which:
3203 unique CDR3
7 unique J



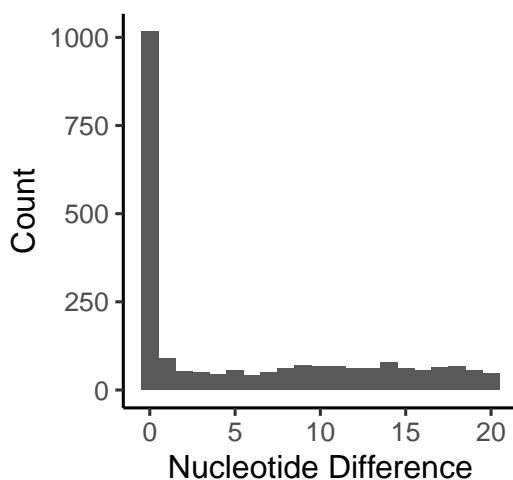
IGHV3-9*01

2607 sequences assigned
1534 (58.8%) exact matches, in which:
1487 unique CDR3
7 unique J



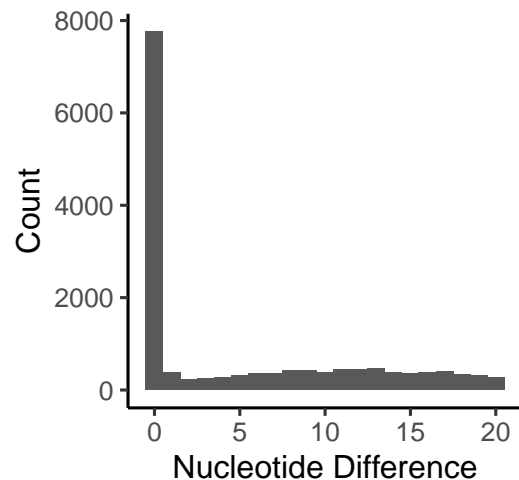
IGHV3-15*01_02

2440 sequences assigned
1016 (41.6%) exact matches, in which:
970 unique CDR3
7 unique J



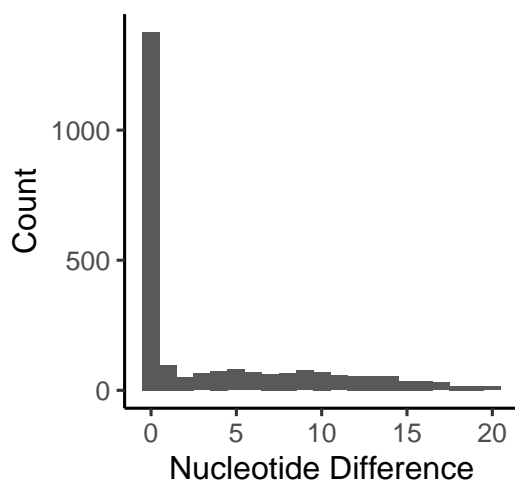
IGHV3-23*01_04

16327 sequences assigned
7758 (47.5%) exact matches, in which:
7399 unique CDR3
7 unique J



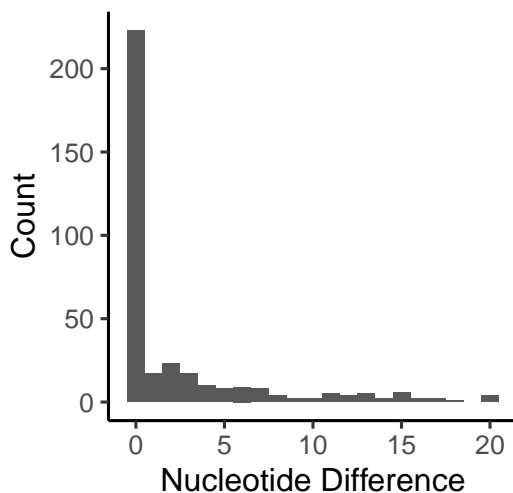
IGHV3-11*01

2545 sequences assigned
1377 (54.1%) exact matches, in which:
1321 unique CDR3
7 unique J



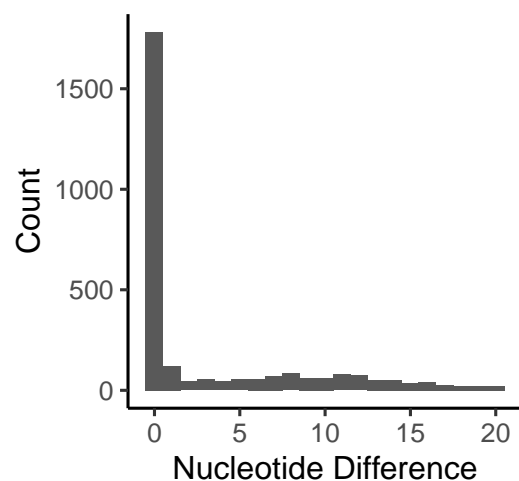
IGHV3-20*01_02

357 sequences assigned
223 (62.5%) exact matches, in which:
208 unique CDR3
7 unique J



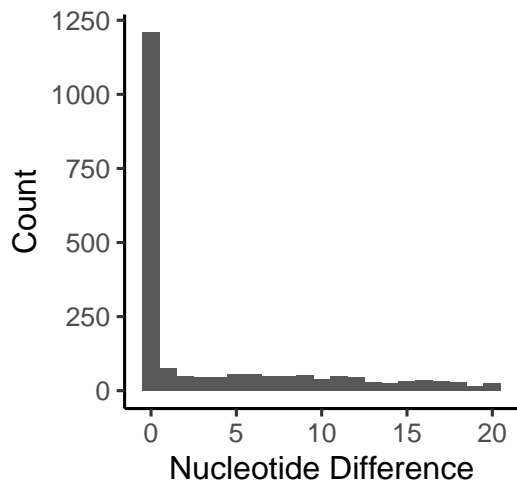
IGHV3-30-3*01

3031 sequences assigned
1782 (58.8%) exact matches, in which:
1728 unique CDR3
7 unique J



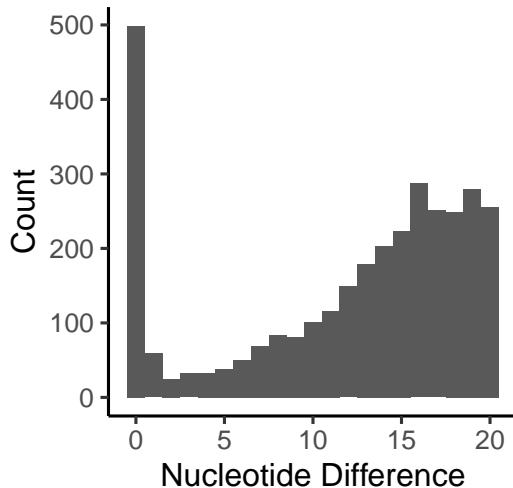
IGHV3–33*01

2137 sequences assigned
1209 (56.6%) exact matches, in which:
1167 unique CDR3
7 unique J



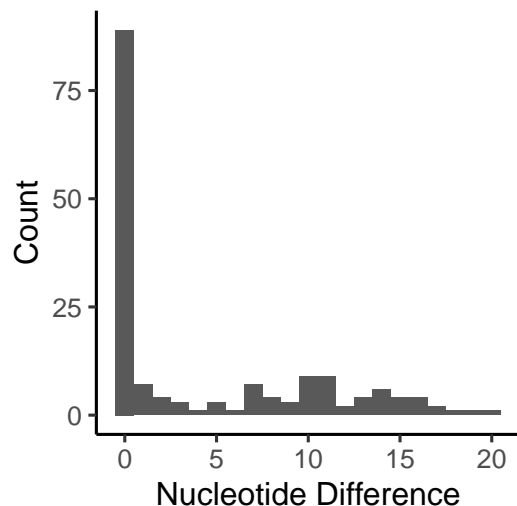
IGHV3–48*01

4695 sequences assigned
499 (10.6%) exact matches, in which:
473 unique CDR3
6 unique J



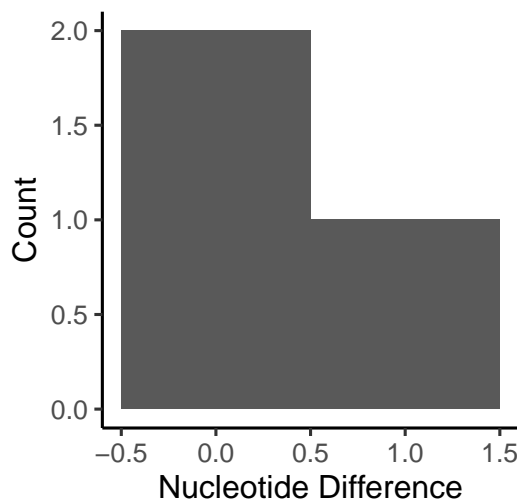
IGHV3–49*03_05

197 sequences assigned
89 (45.2%) exact matches, in which:
86 unique CDR3
5 unique J



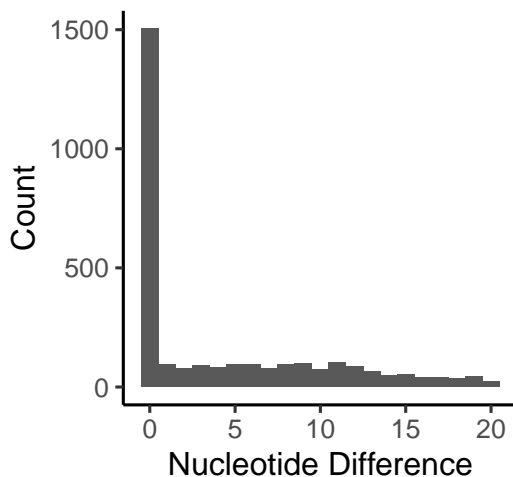
IGHV3–35*01

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



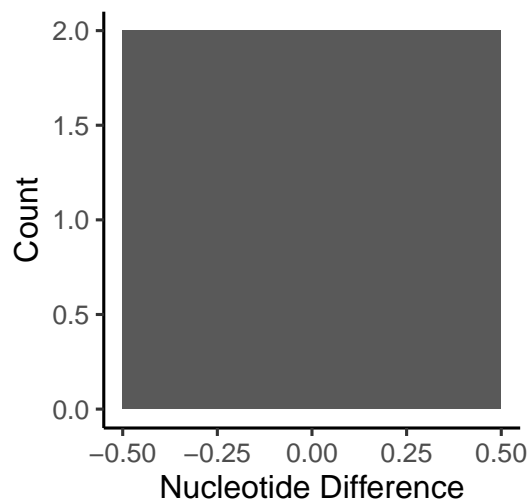
IGHV3–48*03

3053 sequences assigned
1504 (49.3%) exact matches, in which:
1464 unique CDR3
7 unique J



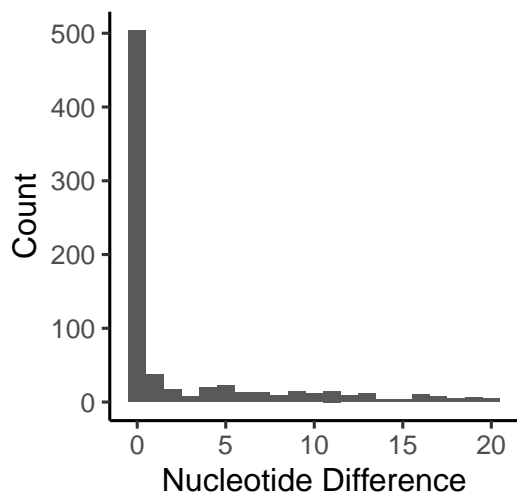
IGHV3–52*01_03

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



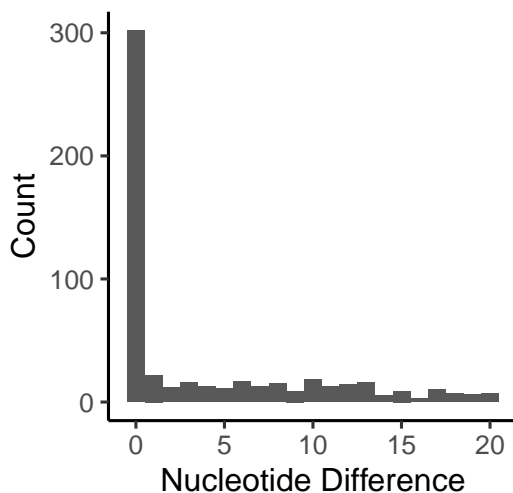
IGHV3–43*02

783 sequences assigned
504 (64.4%) exact matches, in which:
481 unique CDR3
7 unique J



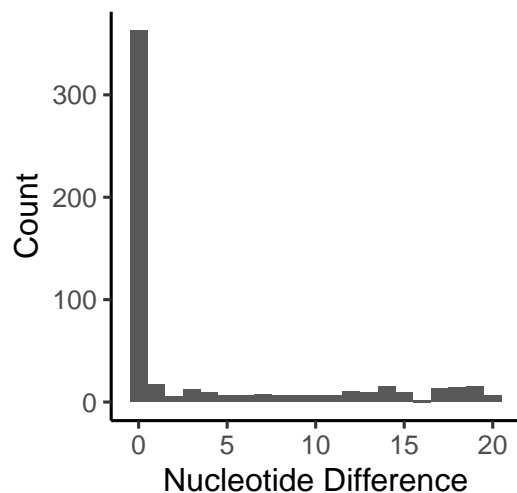
IGHV3–49*04

564 sequences assigned
302 (53.5%) exact matches, in which:
295 unique CDR3
7 unique J



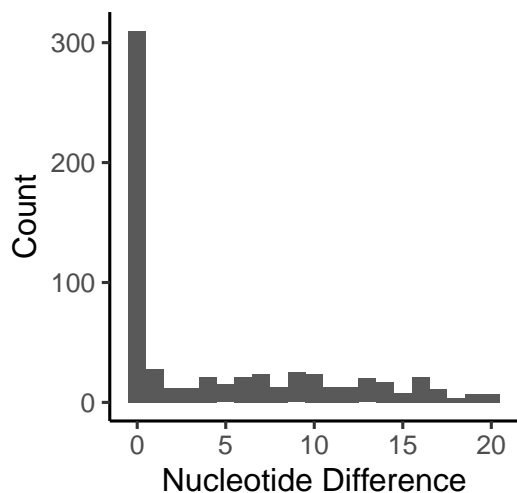
IGHV3–53*04

610 sequences assigned
363 (59.5%) exact matches, in which:
349 unique CDR3
7 unique J



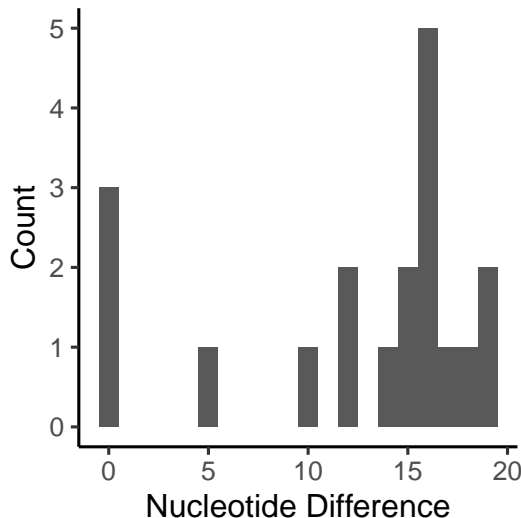
IGHV3-53*01_02

656 sequences assigned
310 (47.3%) exact matches, in which:
300 unique CDR3
6 unique J



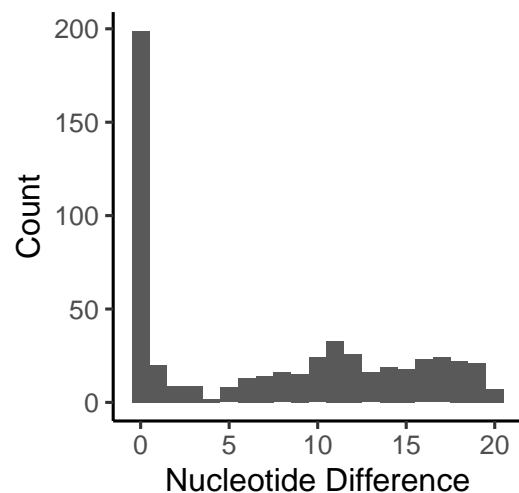
IGHV3-69-1*01

107 sequences assigned
3 (2.8%) exact matches, in which:
3 unique CDR3
2 unique J



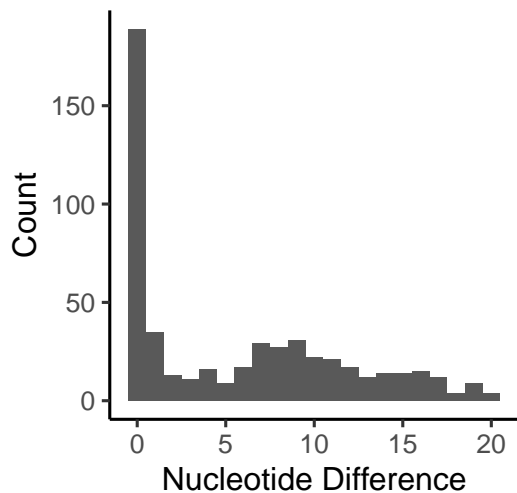
IGHV3-73*01_02

566 sequences assigned
199 (35.2%) exact matches, in which:
190 unique CDR3
7 unique J



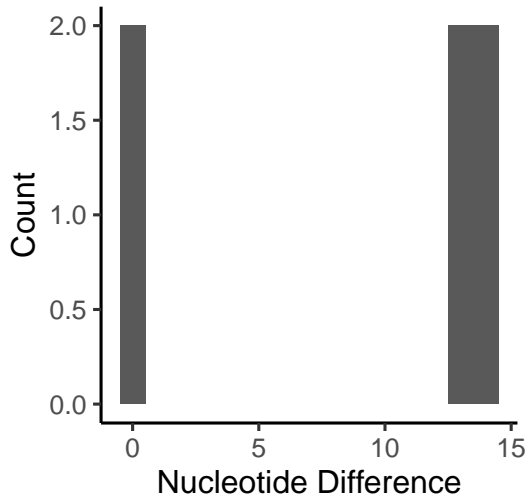
IGHV3-64*01

613 sequences assigned
189 (30.8%) exact matches, in which:
178 unique CDR3
5 unique J



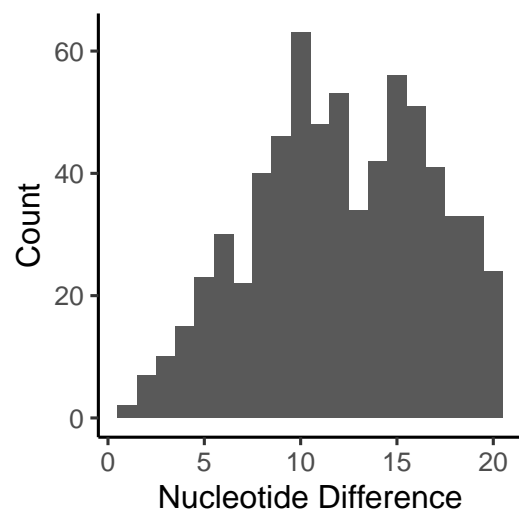
IGHV3-69-1*02

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



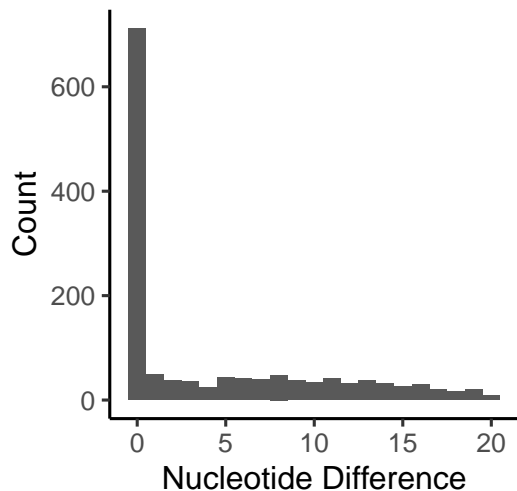
IGHV3-74*03

820 sequences assigned
No exact matches.



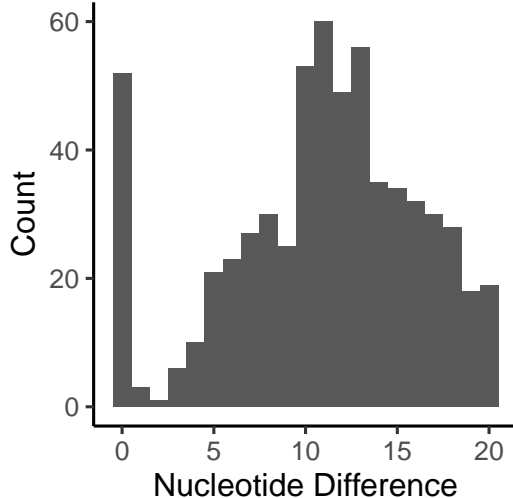
IGHV3-66*02

1451 sequences assigned
712 (49.1%) exact matches, in which:
661 unique CDR3
6 unique J



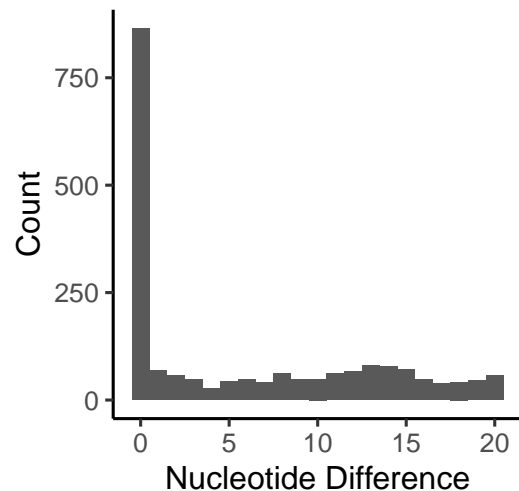
IGHV3-72*01

666 sequences assigned
52 (7.8%) exact matches, in which:
52 unique CDR3
6 unique J



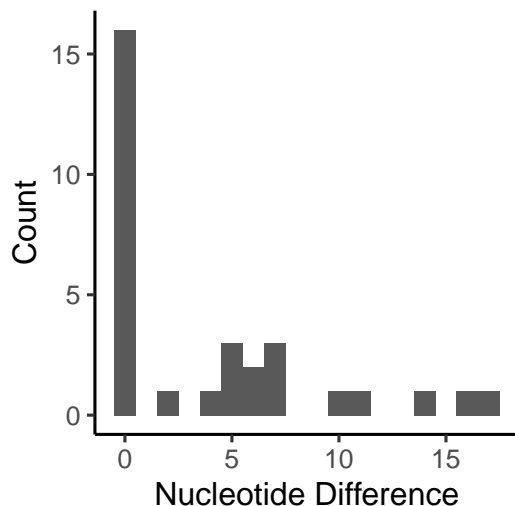
IGHV3-74*01_02

2073 sequences assigned
865 (41.7%) exact matches, in which:
829 unique CDR3
7 unique J



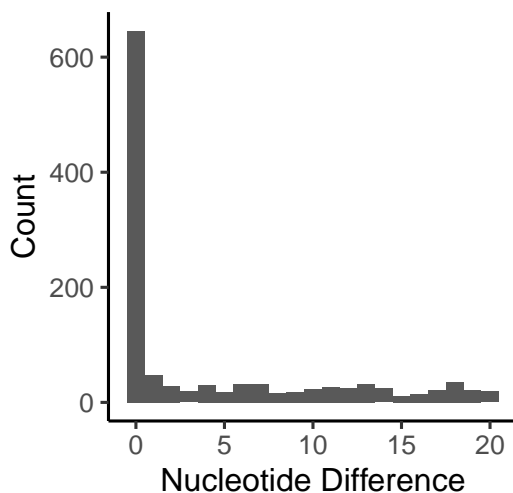
IGHV3-43D*04

32 sequences assigned
16 (50%) exact matches, in which:
16 unique CDR3
2 unique J



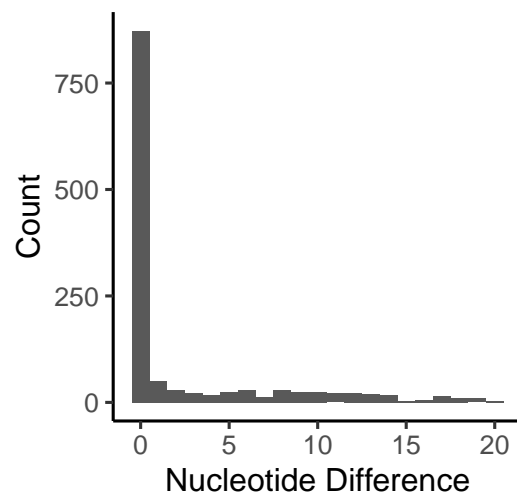
IGHV4-4*02_03

1207 sequences assigned
646 (53.5%) exact matches, in which:
627 unique CDR3
7 unique J



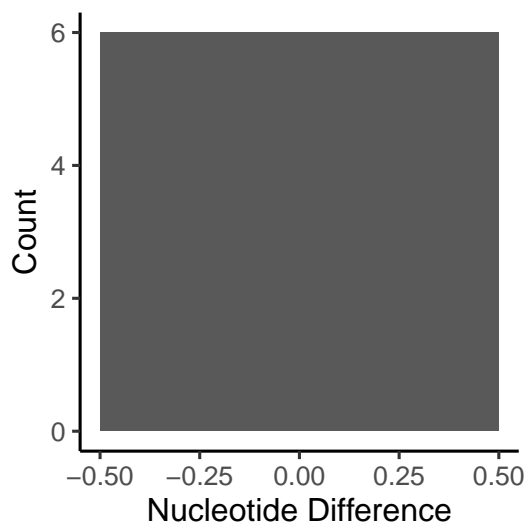
IGHV4-30-4*01

1302 sequences assigned
873 (67.1%) exact matches, in which:
851 unique CDR3
7 unique J



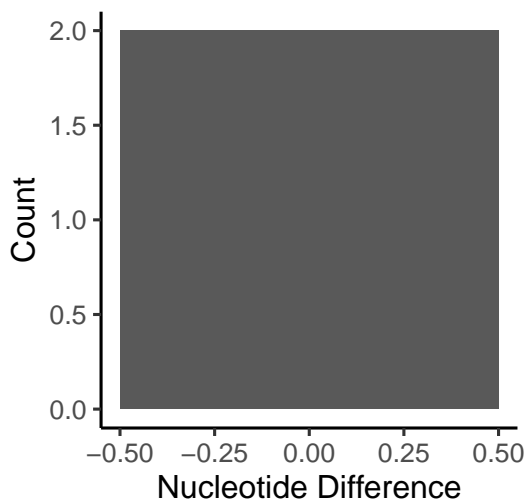
IGHV3-64D*06

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
4 unique J



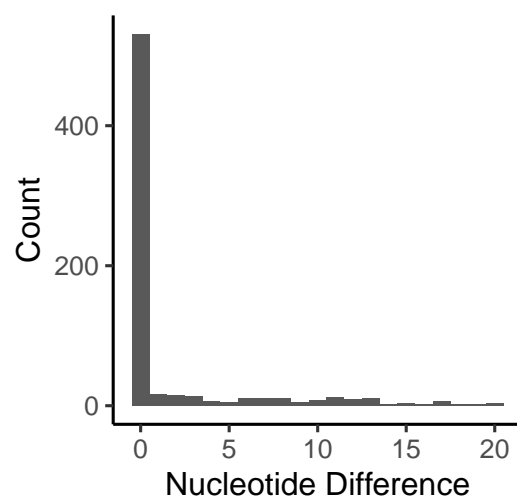
IGHV4-28*03

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



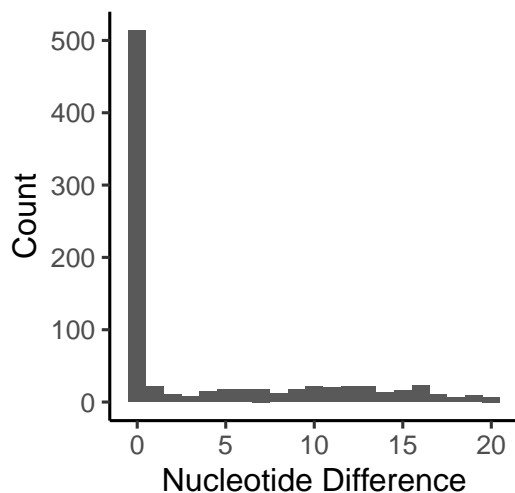
IGHV4-30-2*01

707 sequences assigned
531 (75.1%) exact matches, in which:
506 unique CDR3
7 unique J



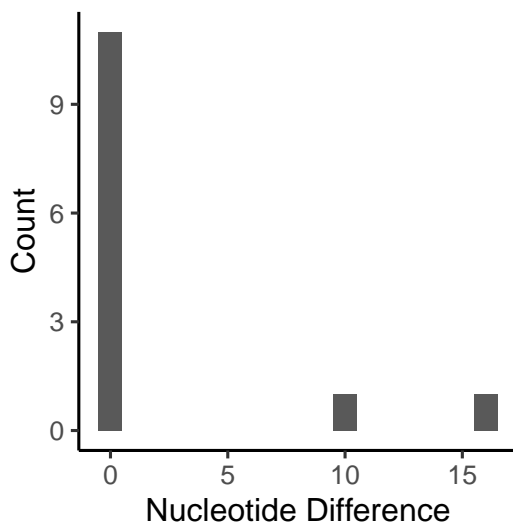
IGHV4-4*07

893 sequences assigned
514 (57.6%) exact matches, in which:
487 unique CDR3
6 unique J



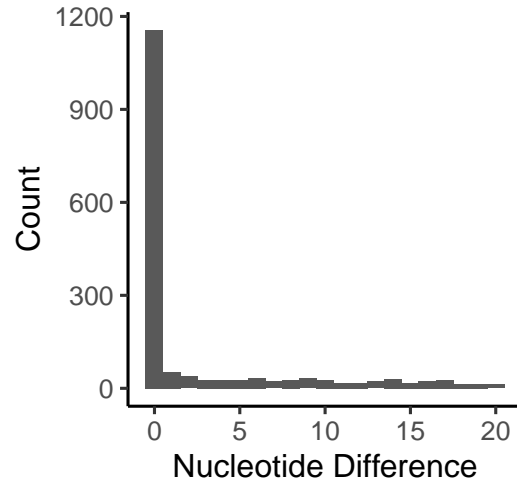
IGHV4-28*01_07

13 sequences assigned
11 (84.6%) exact matches, in which:
9 unique CDR3
3 unique J



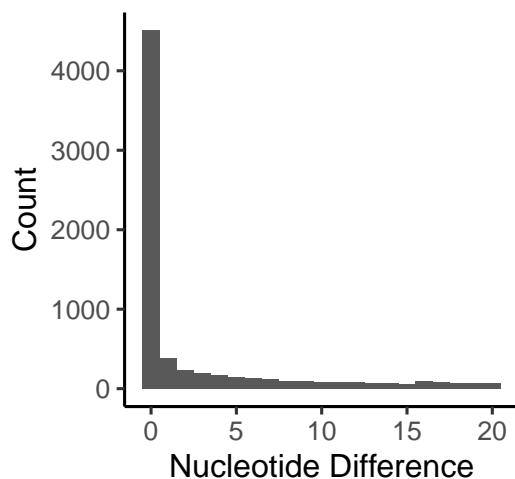
IGHV4-31*02

1725 sequences assigned
1156 (67%) exact matches, in which:
1125 unique CDR3
7 unique J



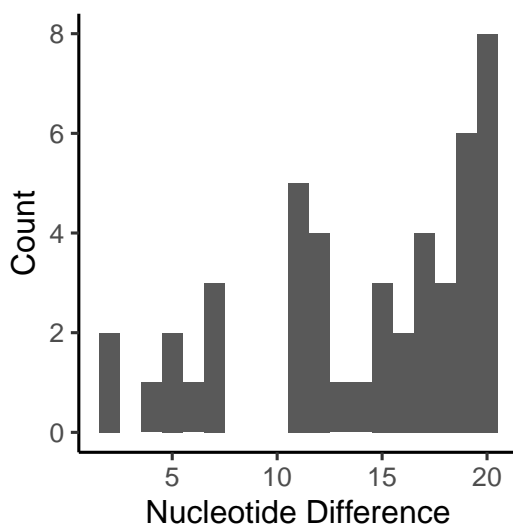
IGHV4–34*01_02

7419 sequences assigned
4508 (60.8%) exact matches, in which:
4293 unique CDR3
7 unique J



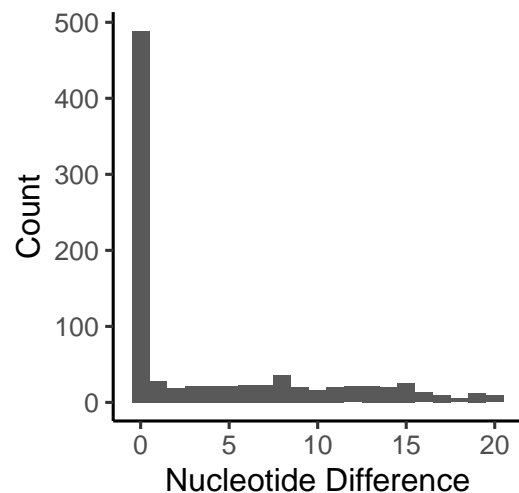
IGHV4–59*02

69 sequences assigned
No exact matches.



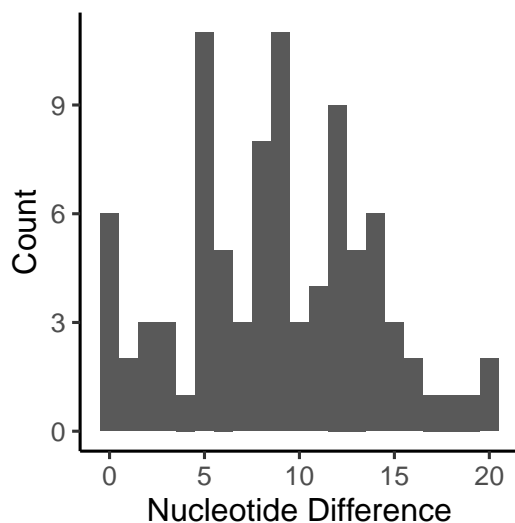
IGHV4–61*01

944 sequences assigned
489 (51.8%) exact matches, in which:
481 unique CDR3
7 unique J



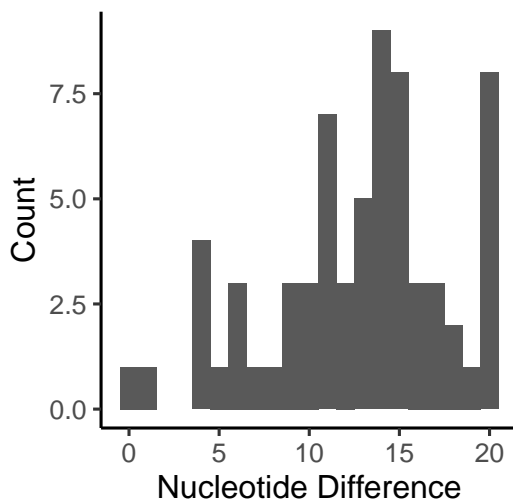
IGHV4–38–2*02

99 sequences assigned
6 (6.1%) exact matches, in which:
6 unique CDR3
3 unique J



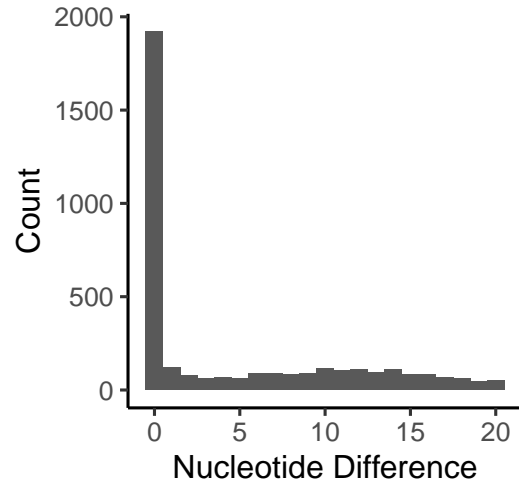
IGHV4–59*11

87 sequences assigned
1 (1.1%) exact matches, in which:
1 unique CDR3
1 unique J



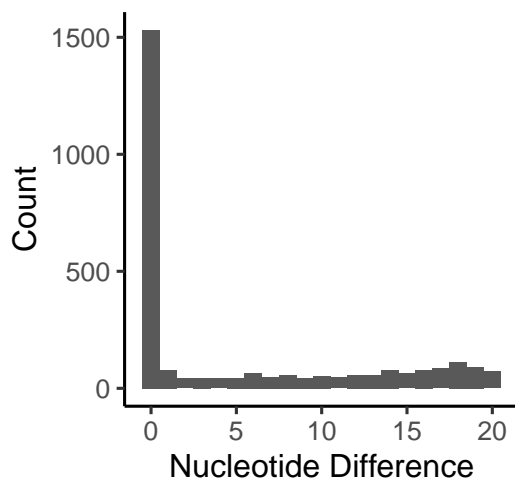
IGHV4–61*02

3769 sequences assigned
1920 (50.9%) exact matches, in which:
1838 unique CDR3
6 unique J



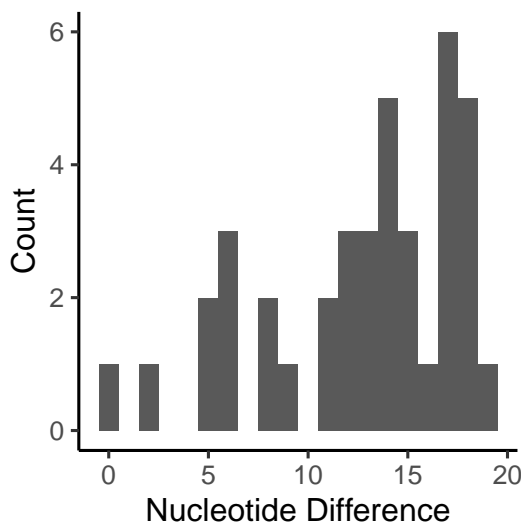
IGHV4–39*07

3748 sequences assigned
1531 (40.8%) exact matches, in which:
1454 unique CDR3
6 unique J



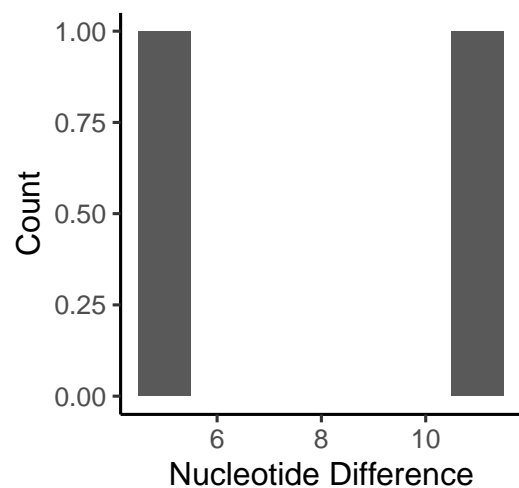
IGHV4–59*12

52 sequences assigned
1 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



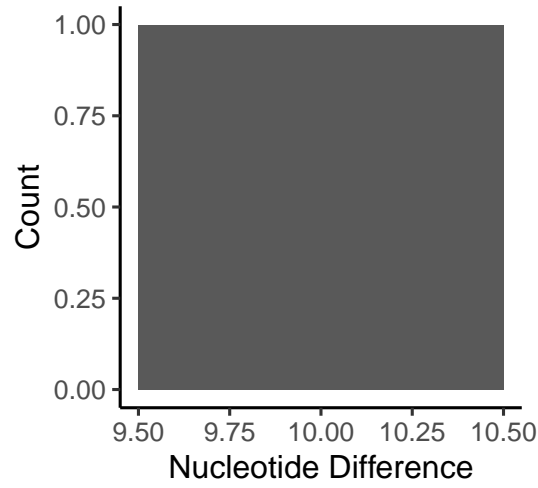
IGHV4/OR15–8*01

2 sequences assigned
No exact matches.



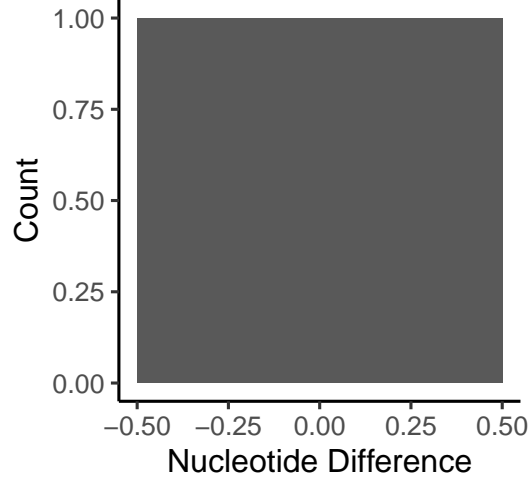
IGHV4/OR15-8*02

2 sequences assigned
No exact matches.



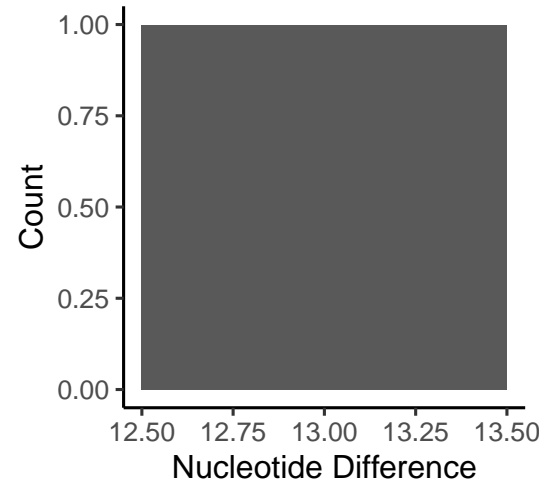
IGHV5-51*07

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



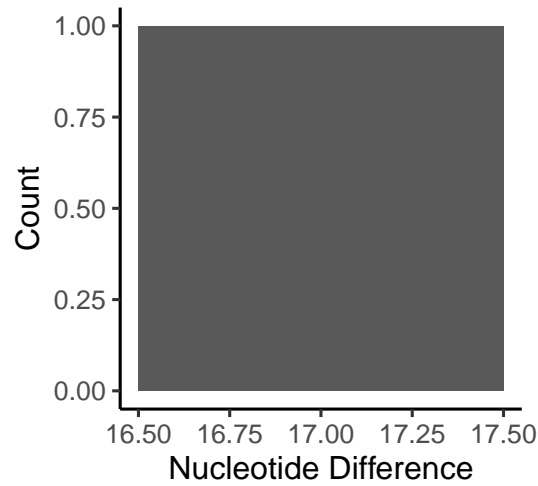
IGHV3/OR16-13*01

1 sequences assigned
No exact matches.



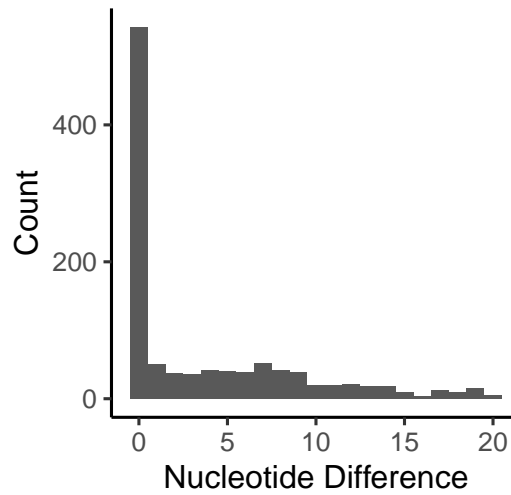
IGHV4/OR15-8*03

1 sequences assigned
No exact matches.



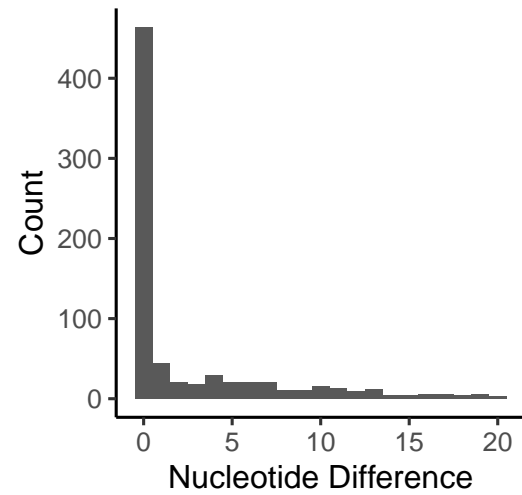
IGHV6-1*01_02

1084 sequences assigned
543 (50.1%) exact matches, in which:
515 unique CDR3
7 unique J



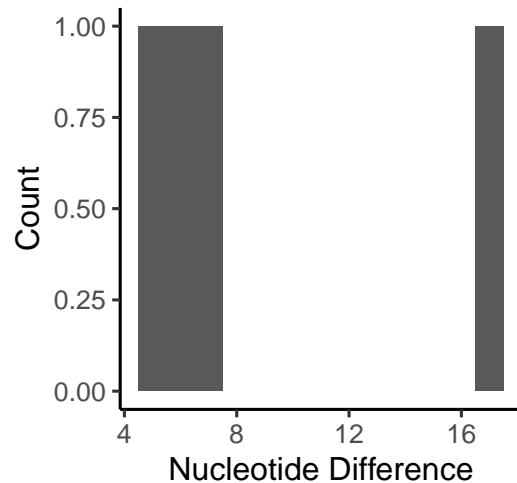
IGHV7-4-1*02

786 sequences assigned
464 (59%) exact matches, in which:
457 unique CDR3
7 unique J



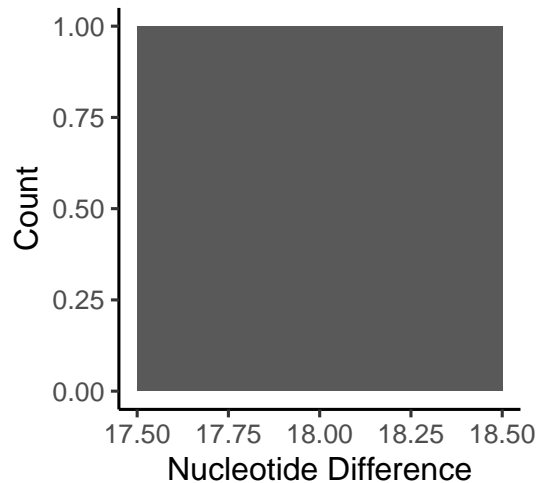
IGHV5-51*04

4 sequences assigned
No exact matches.

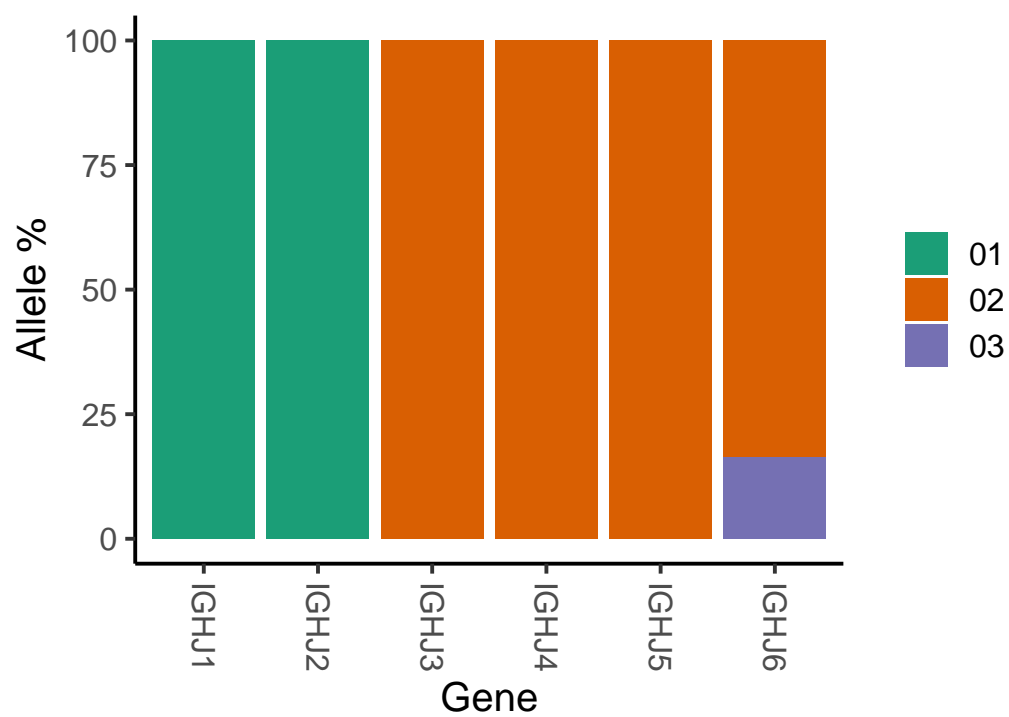


IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



Allele Usage



Warning – no inferred sequences found.