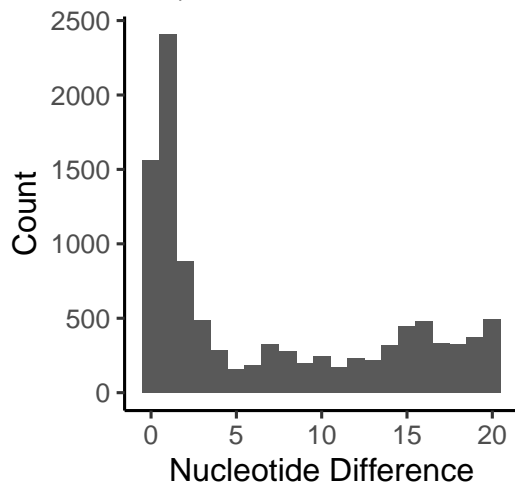


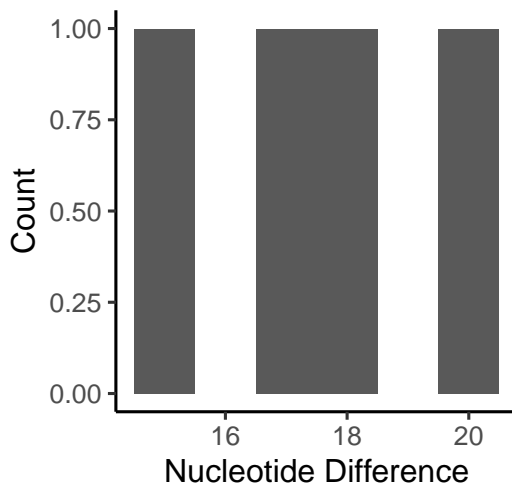
IGHV1-2*02

13128 sequences assigned
1563 (11.9%) exact matches, in which:
1178 unique CDR3
6 unique J



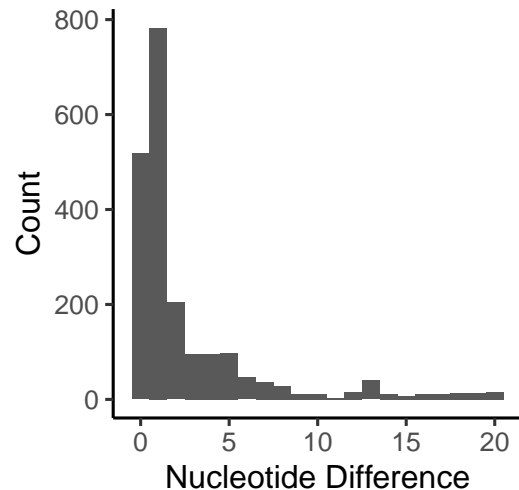
IGHV1-3*04

15 sequences assigned
No exact matches.



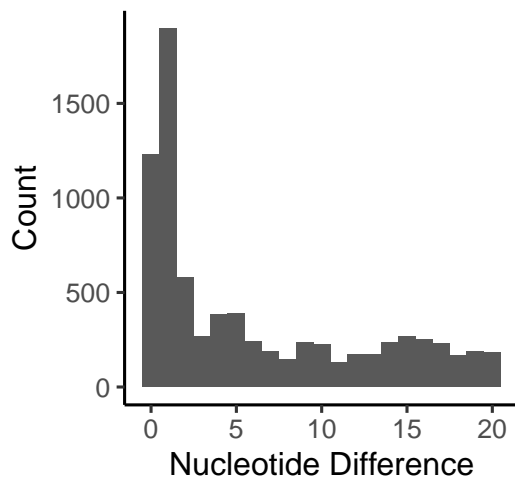
IGHV1-8*03

2336 sequences assigned
518 (22.2%) exact matches, in which:
373 unique CDR3
6 unique J



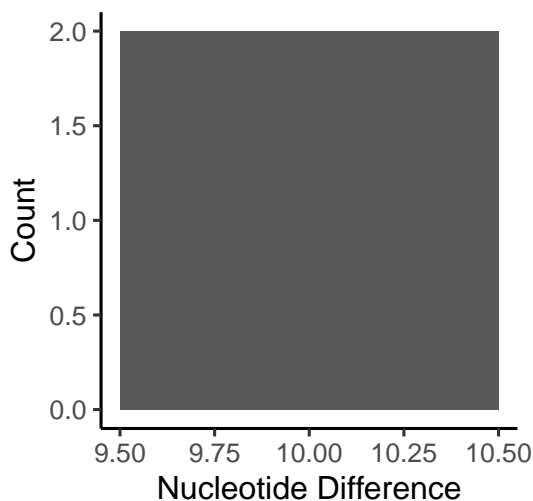
IGHV1-2*06

9144 sequences assigned
1232 (13.5%) exact matches, in which:
912 unique CDR3
6 unique J



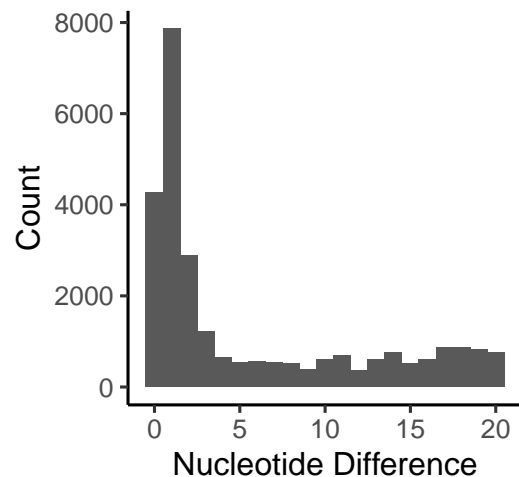
IGHV1-3*01_05

13 sequences assigned
No exact matches.



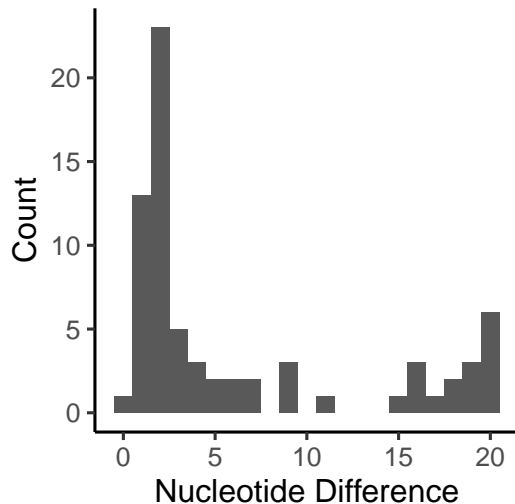
IGHV1-18*01

32223 sequences assigned
4260 (13.2%) exact matches, in which:
2924 unique CDR3
6 unique J



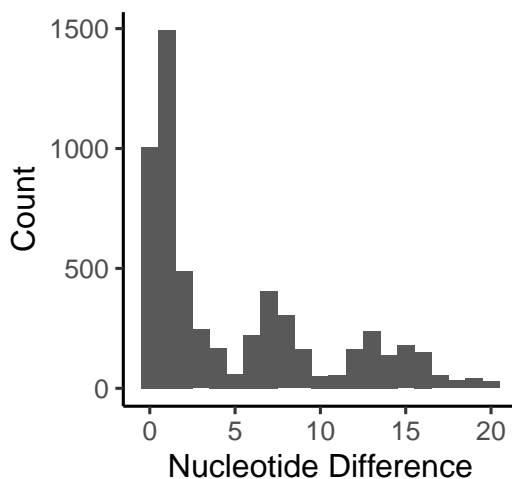
IGHV1-3*03

113 sequences assigned
1 (0.9%) exact matches, in which:
1 unique CDR3
1 unique J



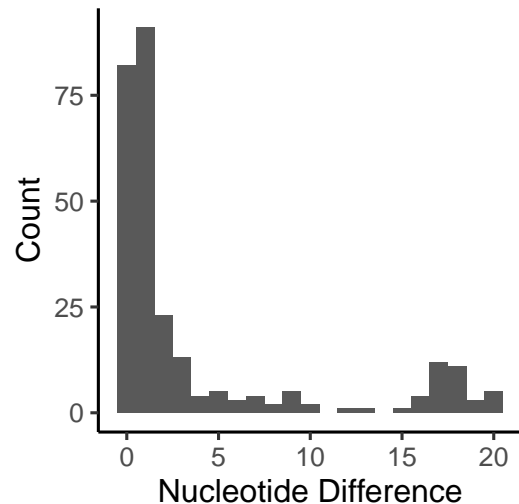
IGHV1-8*01

6894 sequences assigned
1007 (14.6%) exact matches, in which:
714 unique CDR3
6 unique J



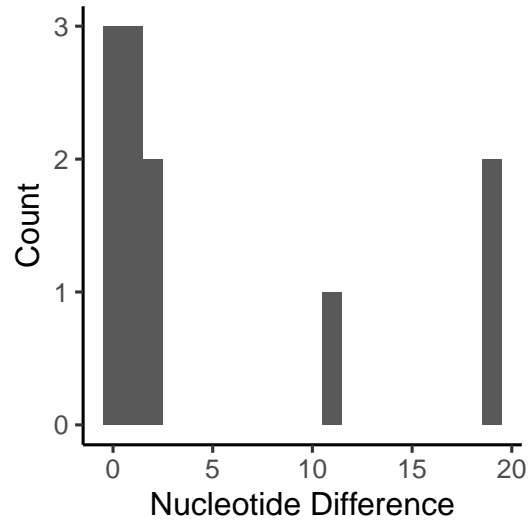
IGHV1-24*01

328 sequences assigned
82 (25%) exact matches, in which:
69 unique CDR3
6 unique J



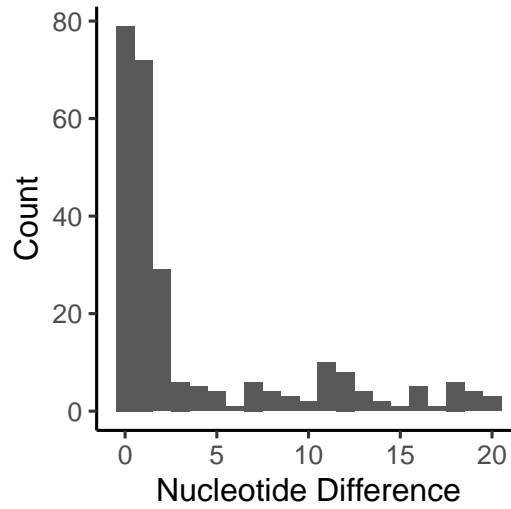
IGHV1-45*02

11 sequences assigned
3 (27.3%) exact matches, in which:
1 unique CDR3
1 unique J



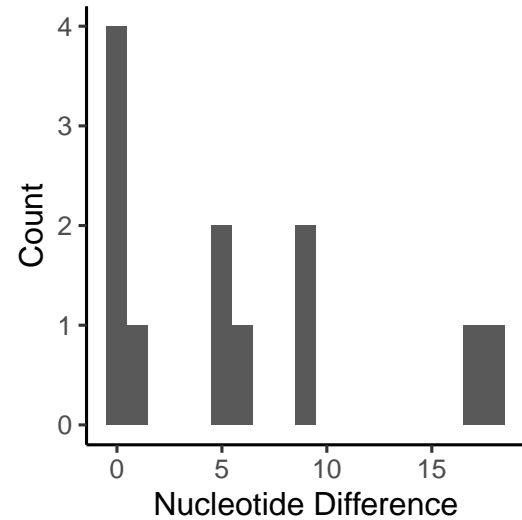
IGHV1-69-2*01

401 sequences assigned
79 (19.7%) exact matches, in which:
59 unique CDR3
5 unique J



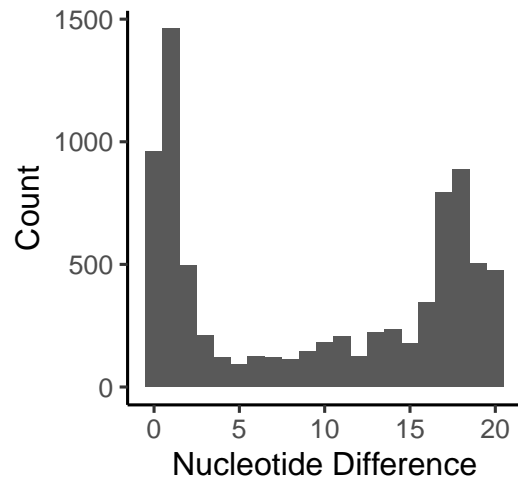
IGHV2-5*01

51 sequences assigned
4 (7.8%) exact matches, in which:
4 unique CDR3
2 unique J



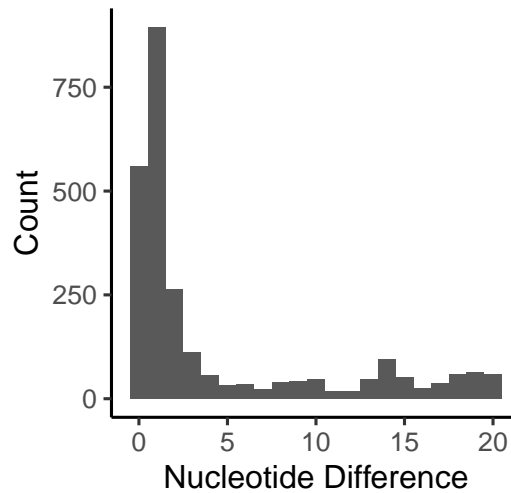
IGHV1-46*01

13861 sequences assigned
960 (6.9%) exact matches, in which:
691 unique CDR3
5 unique J



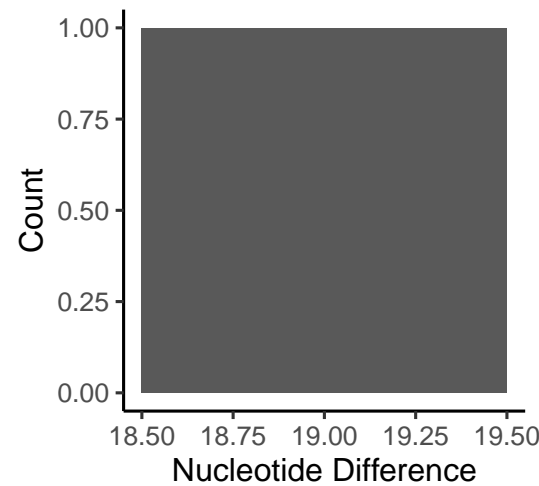
IGHV1-69*01_12_13

3884 sequences assigned
560 (14.4%) exact matches, in which:
426 unique CDR3
6 unique J



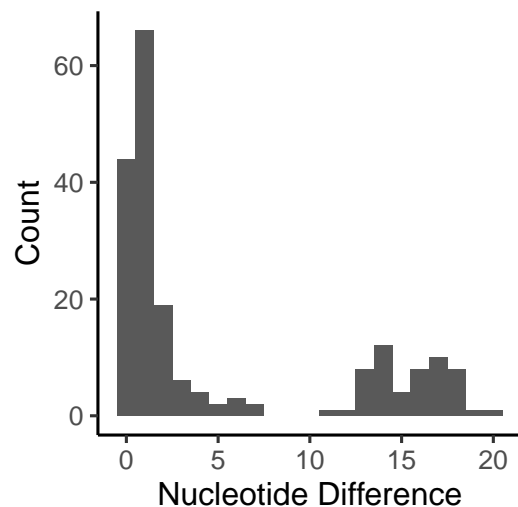
IGHV2-5*04

2 sequences assigned
No exact matches.



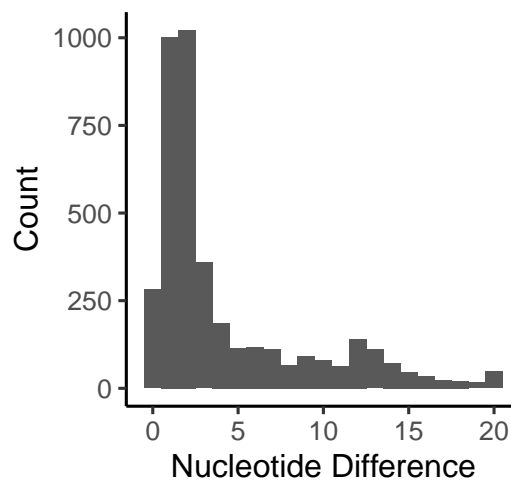
IGHV1-58*02

318 sequences assigned
44 (13.8%) exact matches, in which:
39 unique CDR3
4 unique J



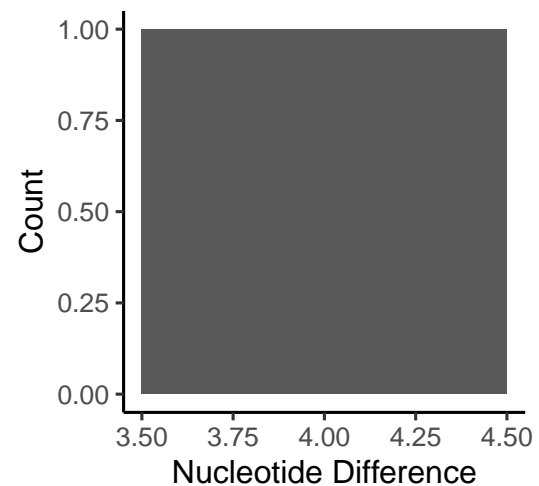
IGHV1-69*10

5162 sequences assigned
282 (5.5%) exact matches, in which:
229 unique CDR3
6 unique J



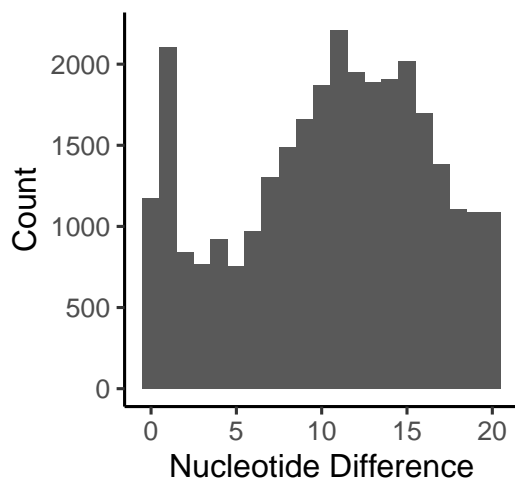
IGHV2-26*01

1 sequences assigned
No exact matches.



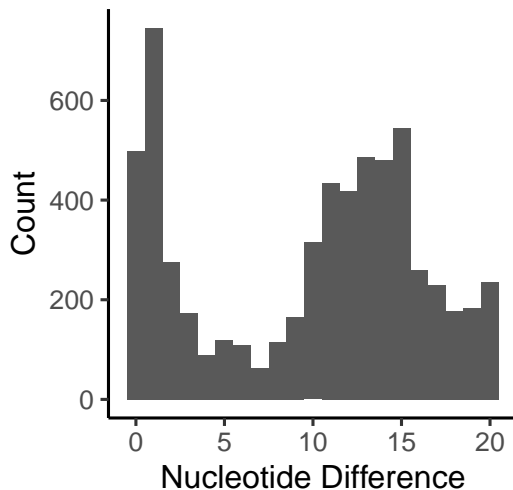
IGHV3-7*01

35758 sequences assigned
1177 (3.3%) exact matches, in which:
722 unique CDR3
6 unique J



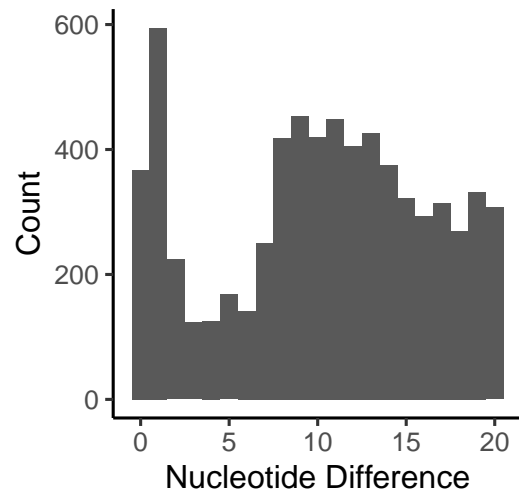
IGHV3-11*01

7833 sequences assigned
499 (6.4%) exact matches, in which:
345 unique CDR3
6 unique J



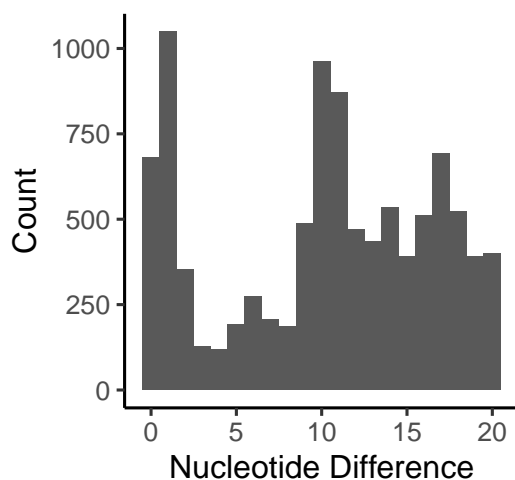
IGHV3-15*01_02

9224 sequences assigned
367 (4%) exact matches, in which:
272 unique CDR3
6 unique J



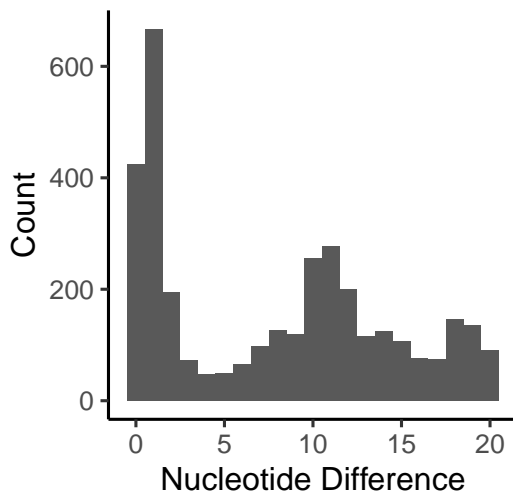
IGHV3-9*01

13468 sequences assigned
681 (5.1%) exact matches, in which:
411 unique CDR3
6 unique J



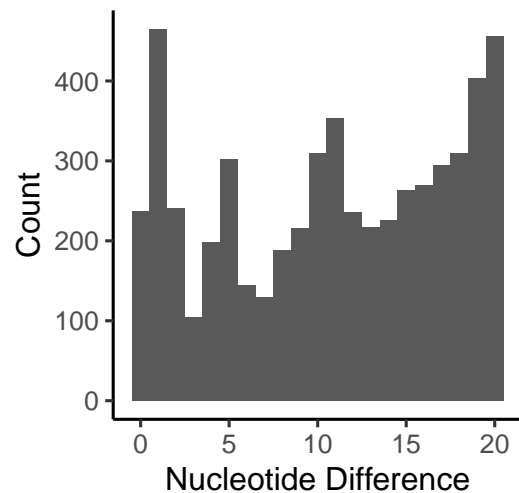
IGHV3-11*04

4055 sequences assigned
424 (10.5%) exact matches, in which:
279 unique CDR3
6 unique J



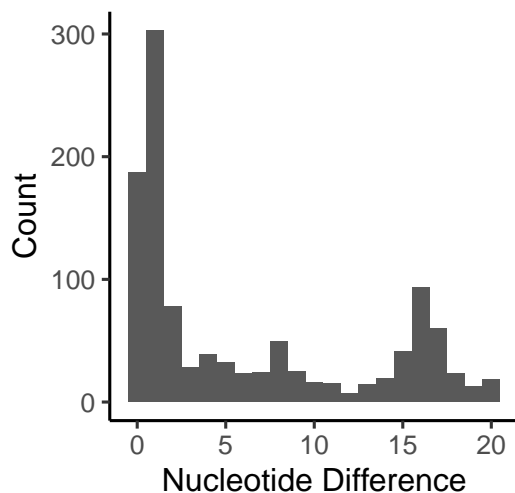
IGHV3-20*03_04

6879 sequences assigned
237 (3.4%) exact matches, in which:
160 unique CDR3
6 unique J



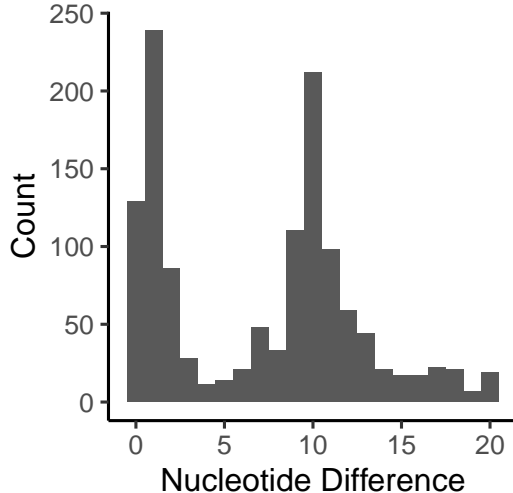
IGHV3-9*03

1197 sequences assigned
187 (15.6%) exact matches, in which:
117 unique CDR3
5 unique J



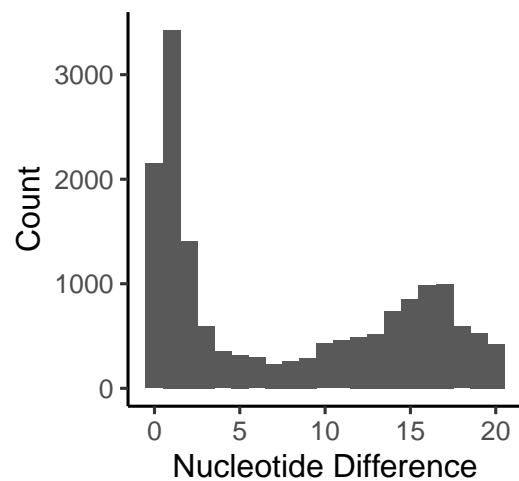
IGHV3-13*01

1725 sequences assigned
129 (7.5%) exact matches, in which:
87 unique CDR3
5 unique J



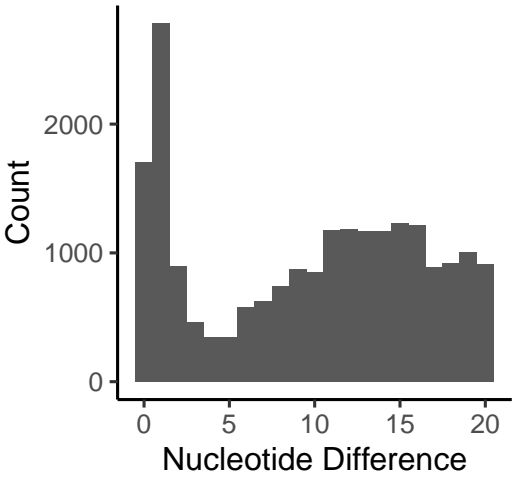
IGHV3-21*01_02

22112 sequences assigned
2152 (9.7%) exact matches, in which:
1319 unique CDR3
6 unique J



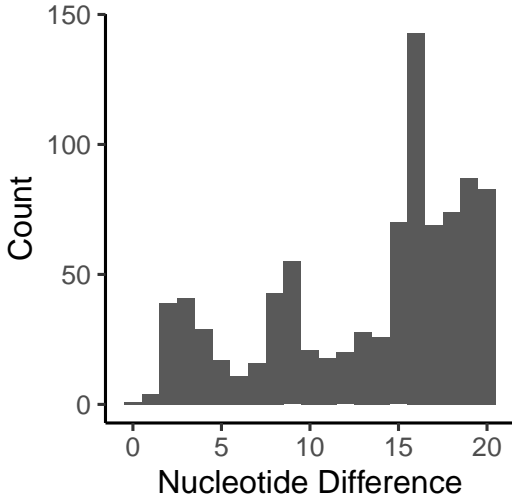
IGHV3-23*01_04

31767 sequences assigned
1707 (5.4%) exact matches, in which:
1145 unique CDR3
6 unique J



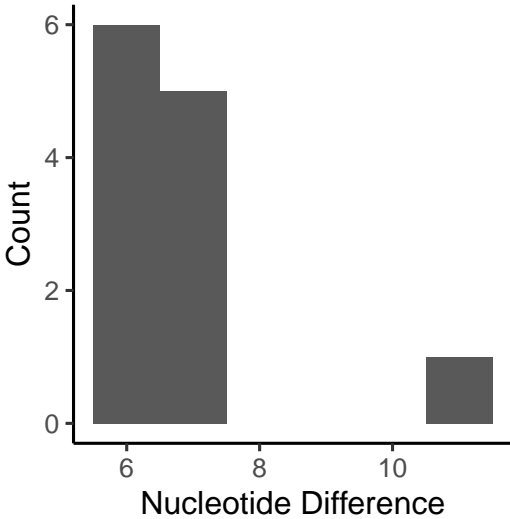
IGHV3-33*05

1840 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



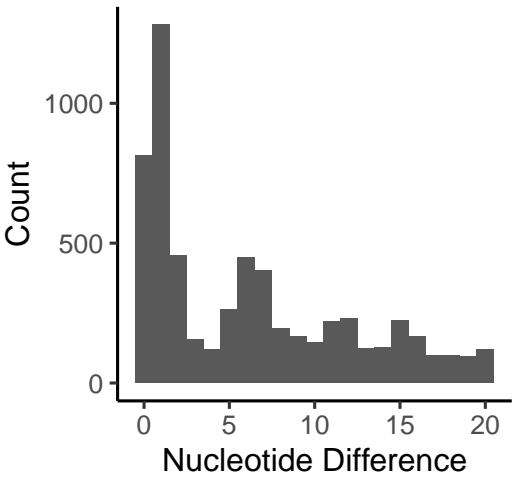
IGHV3-35*02

12 sequences assigned
No exact matches.



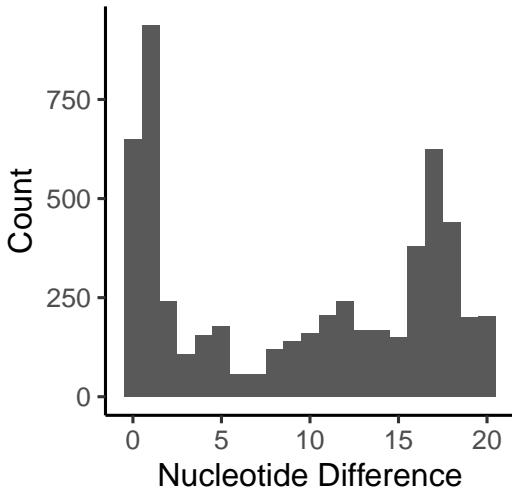
IGHV3-30*01

8249 sequences assigned
812 (9.8%) exact matches, in which:
540 unique CDR3
6 unique J



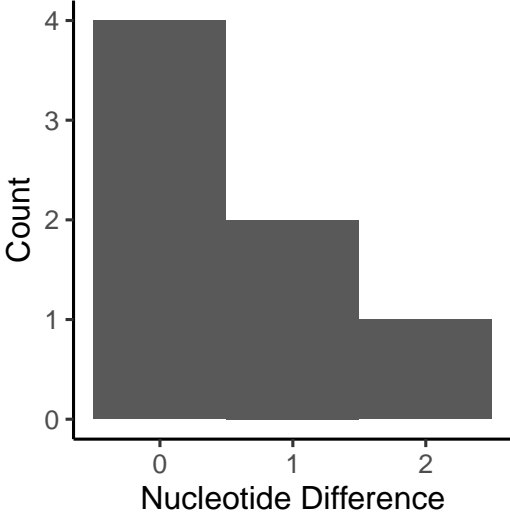
IGHV3-33*06

7080 sequences assigned
650 (9.2%) exact matches, in which:
340 unique CDR3
6 unique J



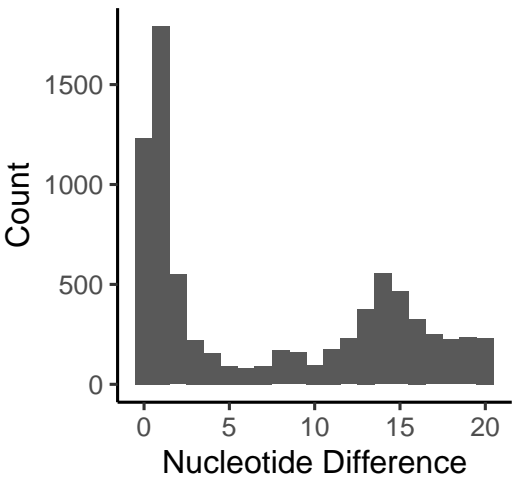
IGHV3-38-3*01

7 sequences assigned
4 (57.1%) exact matches, in which:
4 unique CDR3
1 unique J



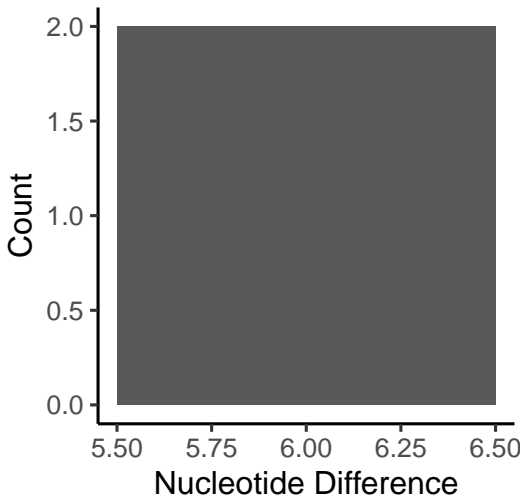
IGHV3-33*01

9880 sequences assigned
1232 (12.5%) exact matches, in which:
697 unique CDR3
6 unique J



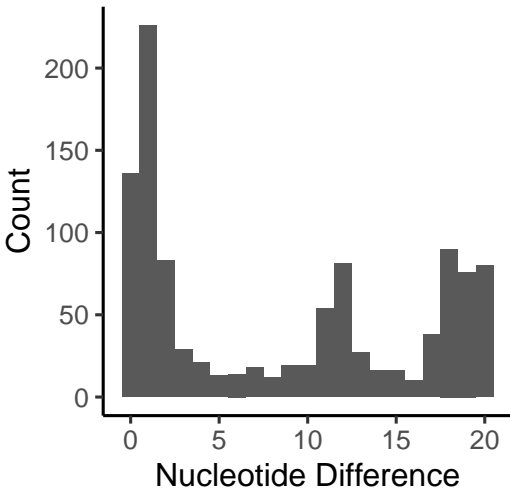
IGHV3-35*01

2 sequences assigned
No exact matches.



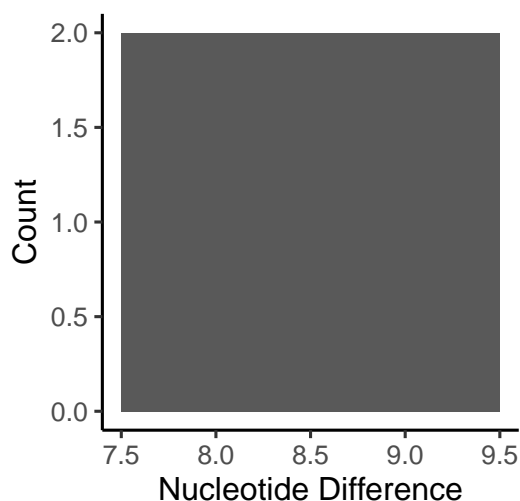
IGHV3-43*01

1977 sequences assigned
136 (6.9%) exact matches, in which:
93 unique CDR3
4 unique J



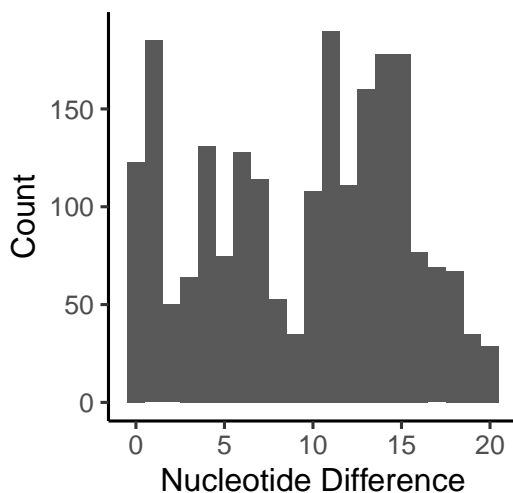
IGHV3-47*01

4 sequences assigned
No exact matches.



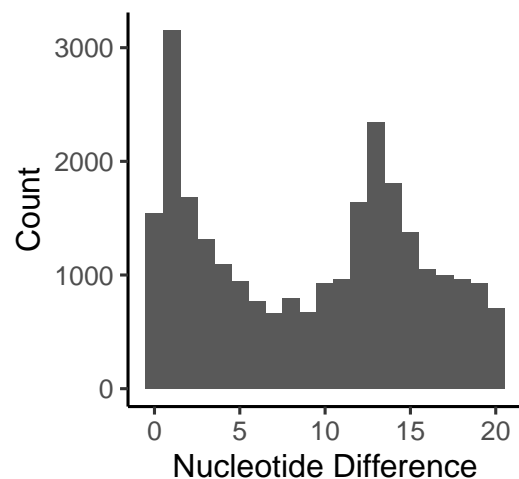
IGHV3-49*03_05

2985 sequences assigned
123 (4.1%) exact matches, in which:
79 unique CDR3
5 unique J



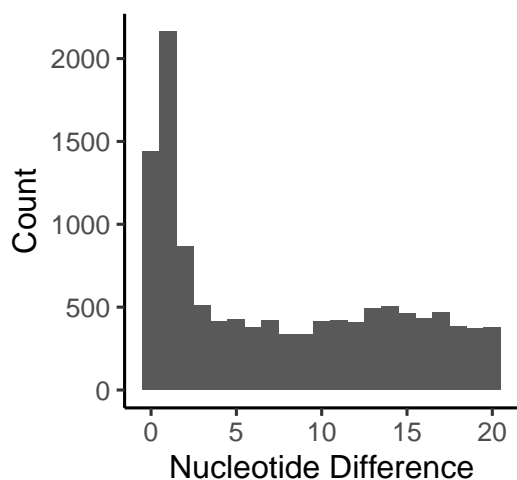
IGHV3-53*01_02

34249 sequences assigned
1547 (4.5%) exact matches, in which:
940 unique CDR3
6 unique J



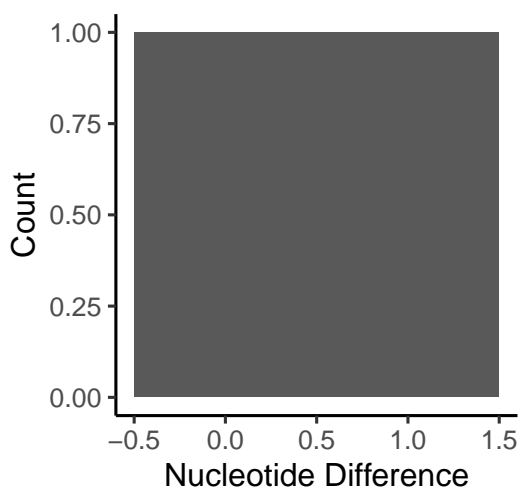
IGHV3-48*03

15744 sequences assigned
1439 (9.1%) exact matches, in which:
948 unique CDR3
6 unique J



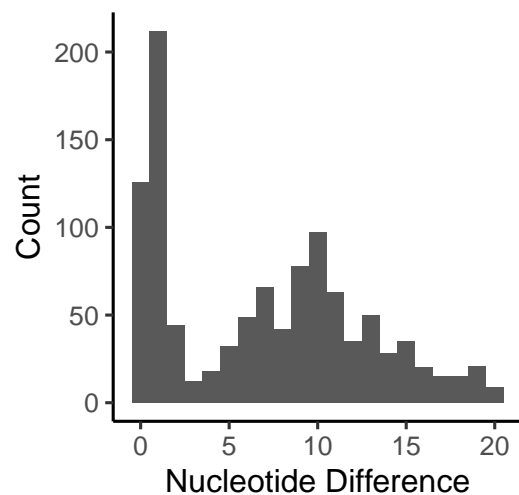
IGHV3-52*01_03

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



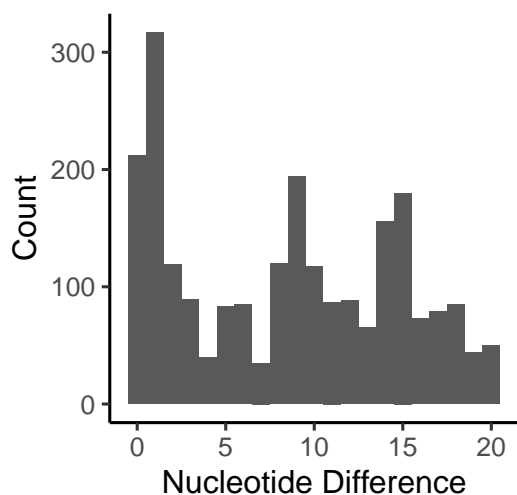
IGHV3-64*01

1563 sequences assigned
126 (8.1%) exact matches, in which:
77 unique CDR3
5 unique J



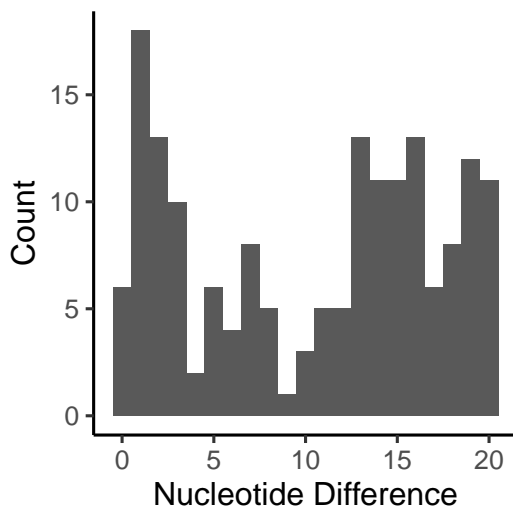
IGHV3-49*04

3267 sequences assigned
212 (6.5%) exact matches, in which:
143 unique CDR3
6 unique J



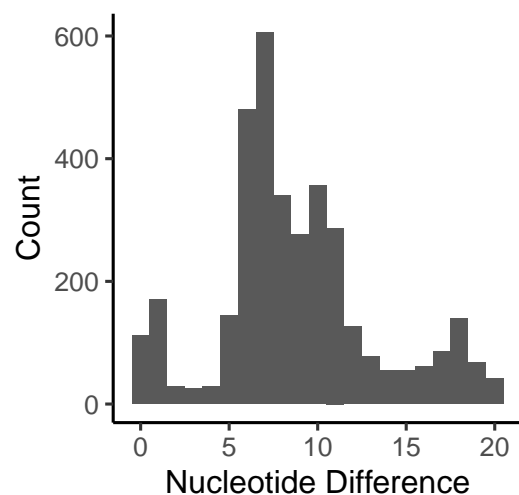
IGHV3-53*05

279 sequences assigned
6 (2.2%) exact matches, in which:
6 unique CDR3
4 unique J



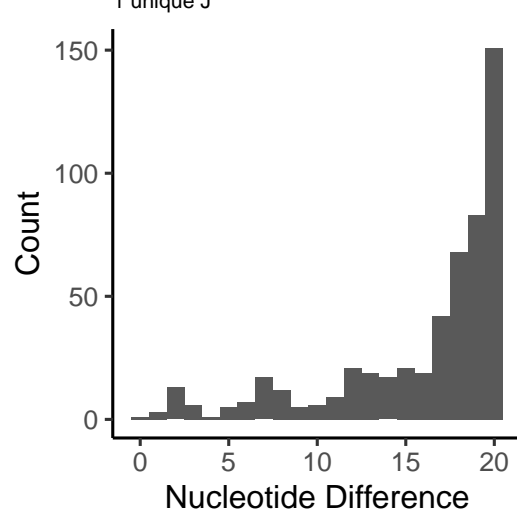
IGHV3-64*02_07

3940 sequences assigned
111 (2.8%) exact matches, in which:
73 unique CDR3
5 unique J



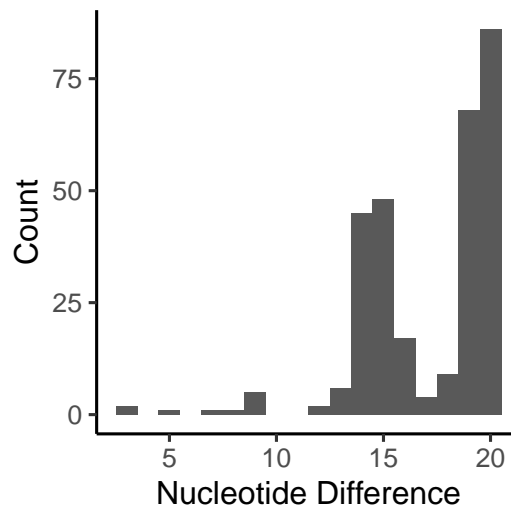
IGHV3-66*01

1219 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



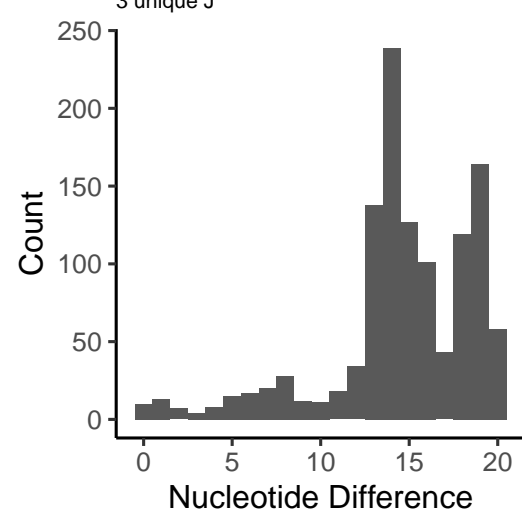
IGHV3-69-1*01

350 sequences assigned
No exact matches.



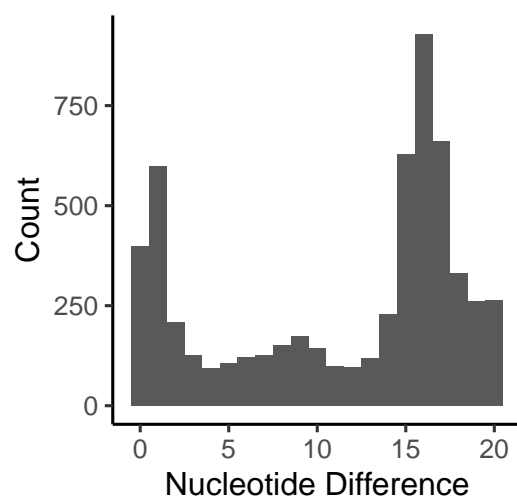
IGHV3-72*01

1824 sequences assigned
10 (0.5%) exact matches, in which:
6 unique CDR3
3 unique J



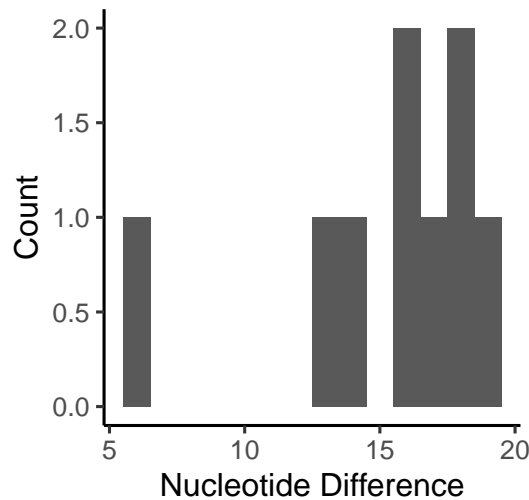
IGHV3-66*02

7564 sequences assigned
399 (5.3%) exact matches, in which:
235 unique CDR3
6 unique J



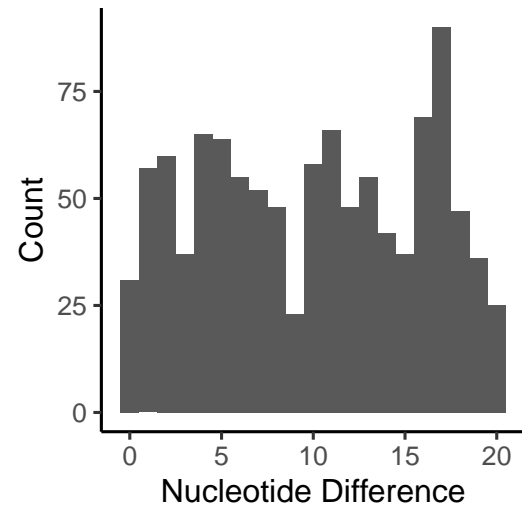
IGHV3-69-1*02

36 sequences assigned
No exact matches.



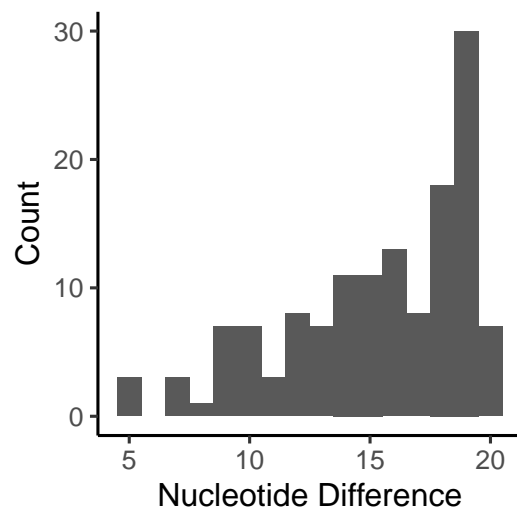
IGHV3-73*01_02

1602 sequences assigned
31 (1.9%) exact matches, in which:
28 unique CDR3
5 unique J



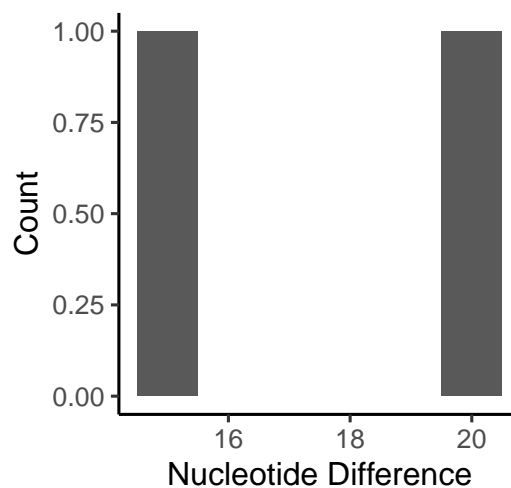
IGHV3-66*03

443 sequences assigned
No exact matches.



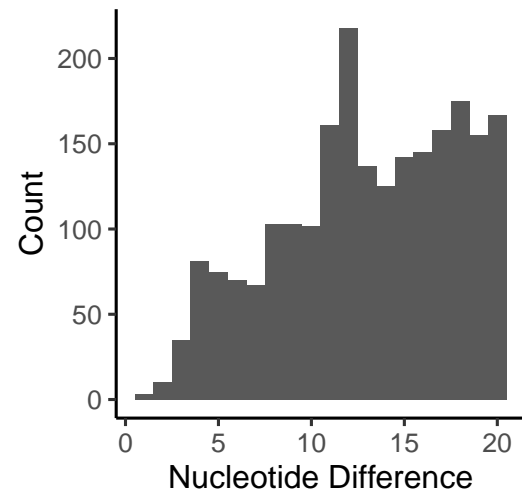
IGHV3-71*01_04

14 sequences assigned
No exact matches.



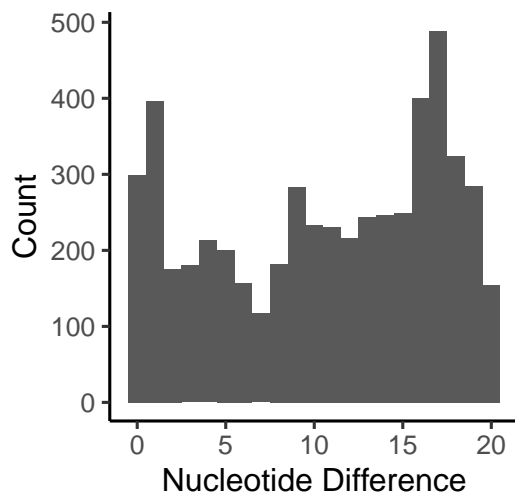
IGHV3-74*03

5120 sequences assigned
No exact matches.



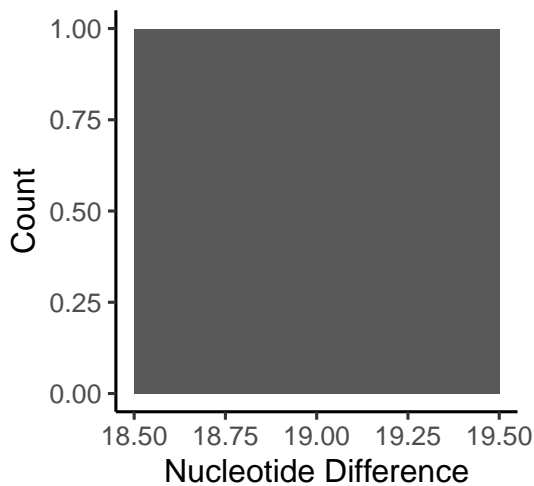
IGHV3-74*01_02

7049 sequences assigned
299 (4.2%) exact matches, in which:
192 unique CDR3
6 unique J



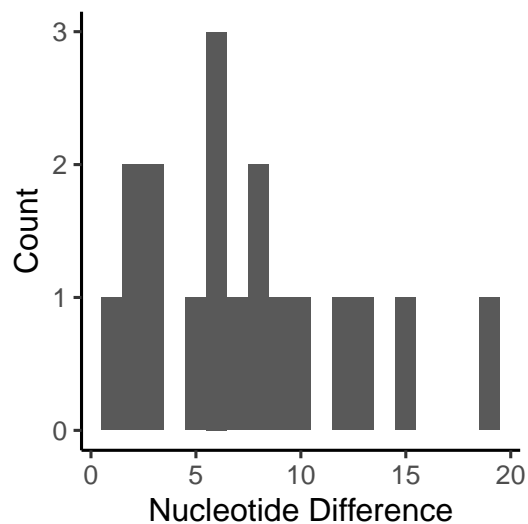
IGHV3-64D*08

2 sequences assigned
No exact matches.



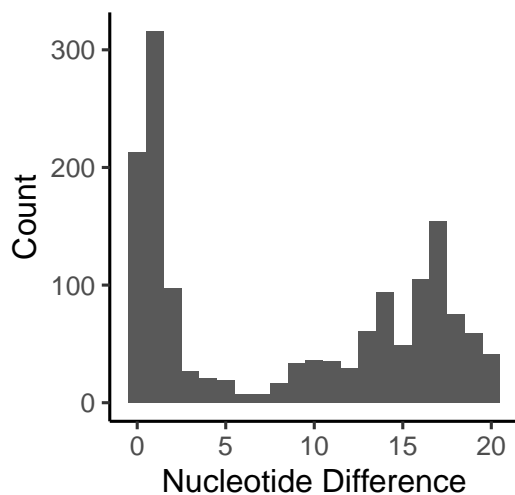
IGHV4-28*03

23 sequences assigned
No exact matches.



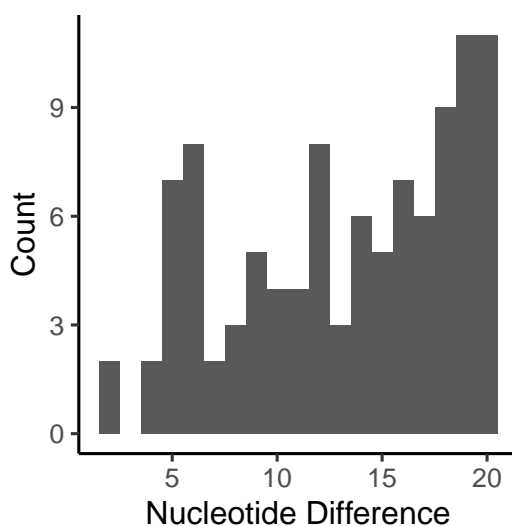
IGHV3-43D*03

1913 sequences assigned
213 (11.1%) exact matches, in which:
139 unique CDR3
6 unique J



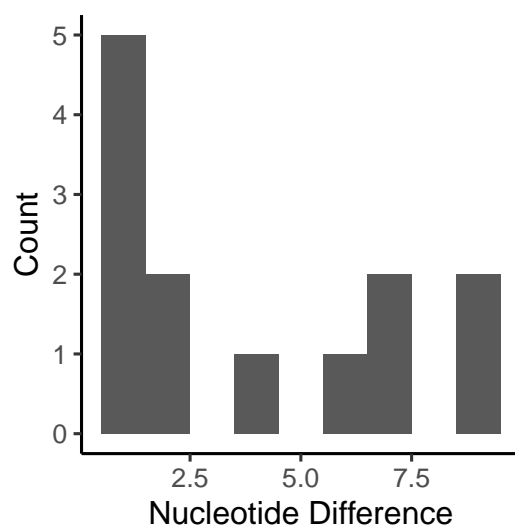
IGHV3-NL1*01

156 sequences assigned
No exact matches.



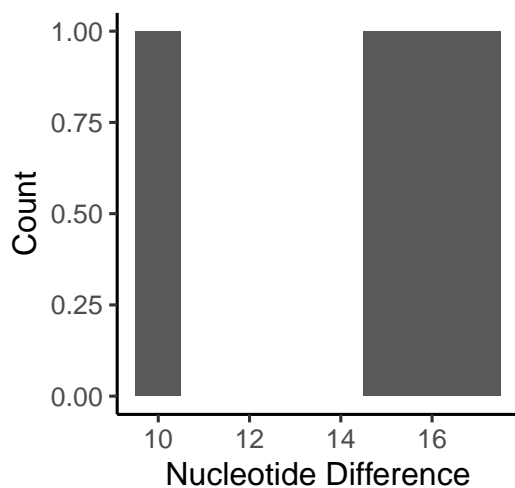
IGHV4-28*06

14 sequences assigned
No exact matches.



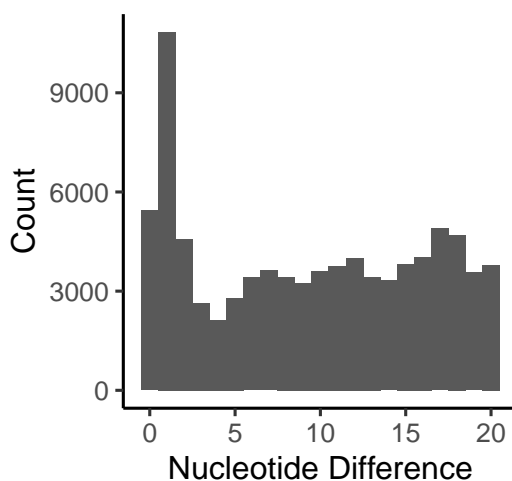
IGHV3-64D*06

4 sequences assigned
No exact matches.



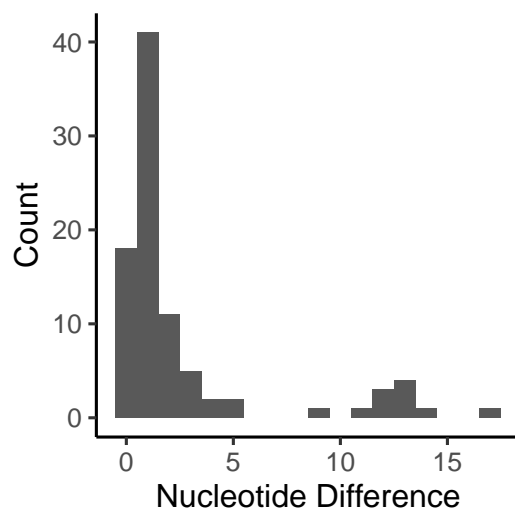
IGHV4-4*07

110817 sequences assigned
5438 (4.9%) exact matches, in which:
3234 unique CDR3
6 unique J



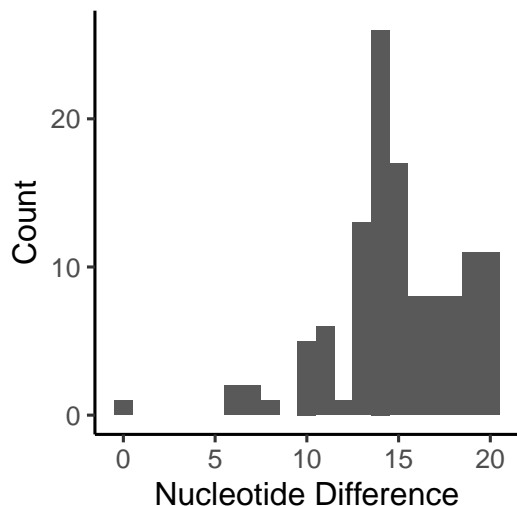
IGHV4-28*02_05

91 sequences assigned
18 (19.8%) exact matches, in which:
9 unique CDR3
2 unique J



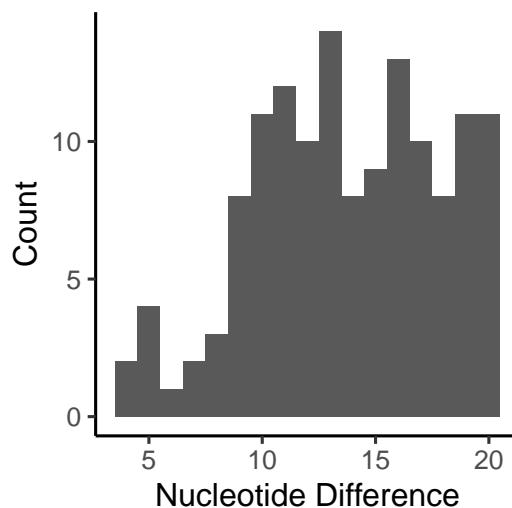
IGHV4-30-4*01

414 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



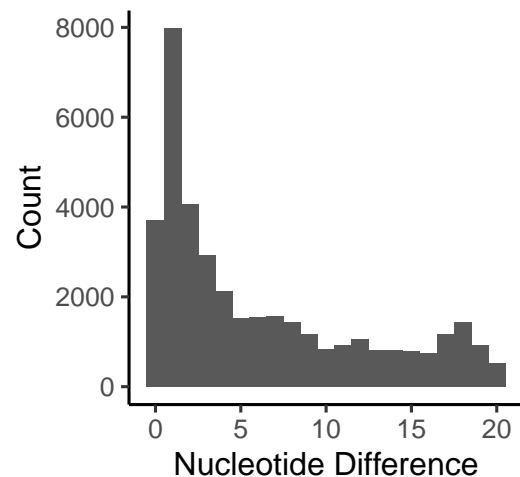
IGHV4-30-4*08

241 sequences assigned
No exact matches.



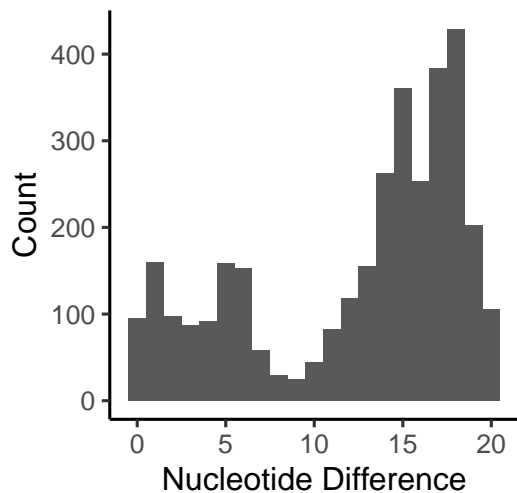
IGHV4-38-2*02

46498 sequences assigned
3704 (8%) exact matches, in which:
2148 unique CDR3
6 unique J



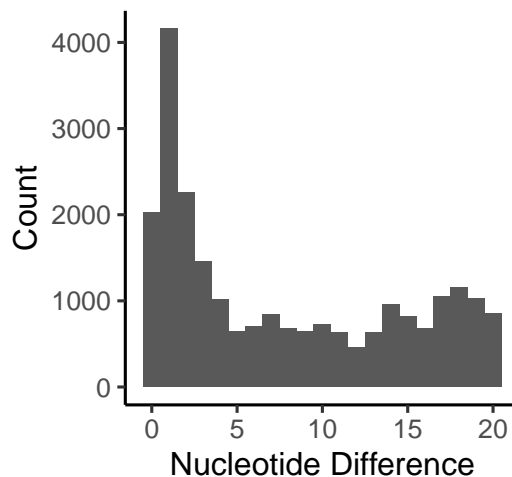
IGHV4-30-2*01

4603 sequences assigned
95 (2.1%) exact matches, in which:
66 unique CDR3
5 unique J



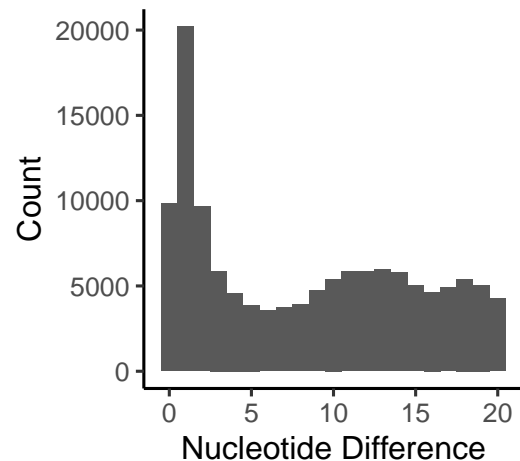
IGHV4-31*02

34523 sequences assigned
2031 (5.9%) exact matches, in which:
1212 unique CDR3
6 unique J



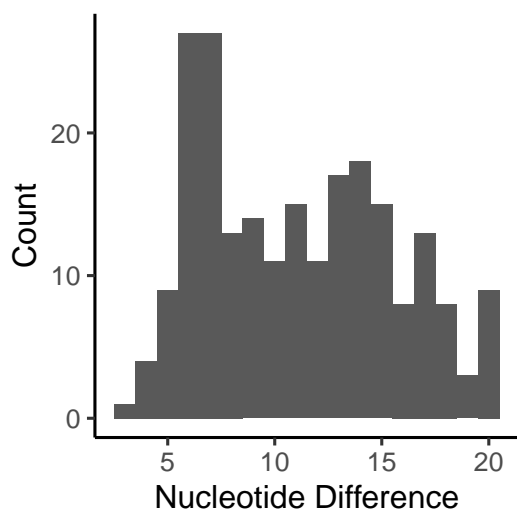
IGHV4-39*07

170334 sequences assigned
9837 (5.8%) exact matches, in which:
5466 unique CDR3
6 unique J



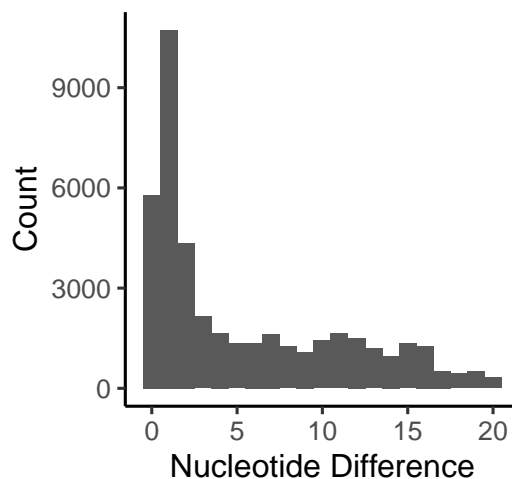
IGHV4-30-4*07

291 sequences assigned
No exact matches.



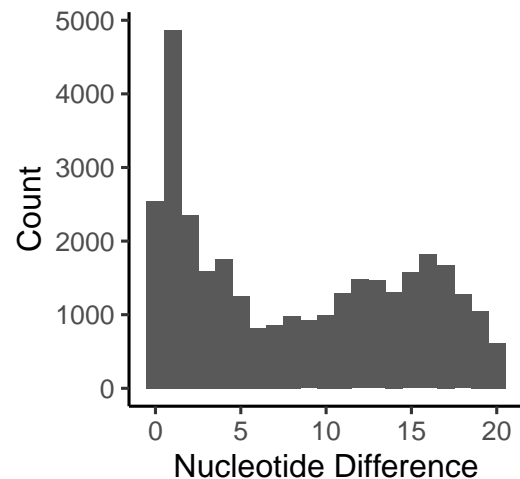
IGHV4-34*01_02

47416 sequences assigned
5779 (12.2%) exact matches, in which:
3263 unique CDR3
6 unique J



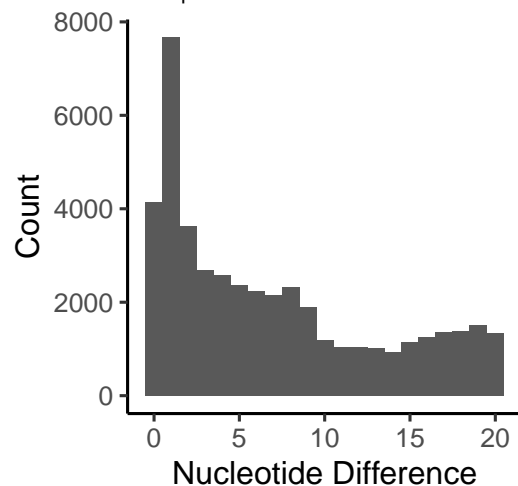
IGHV4-59*08

39047 sequences assigned
2549 (6.5%) exact matches, in which:
1501 unique CDR3
6 unique J



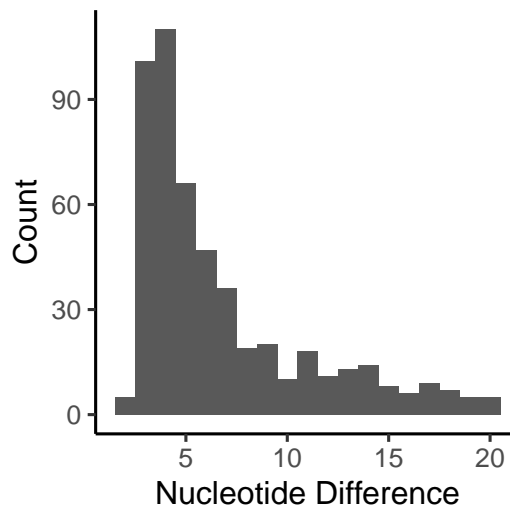
IGHV4–59*01_07

55682 sequences assigned
4151 (7.5%) exact matches, in which:
2359 unique CDR3
6 unique J



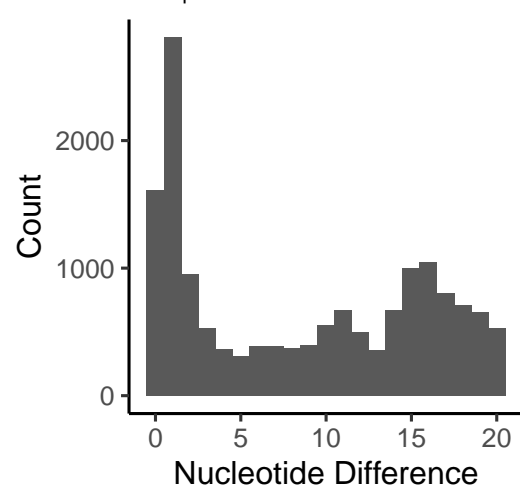
IGHV4/OR15–8*01

560 sequences assigned
No exact matches.



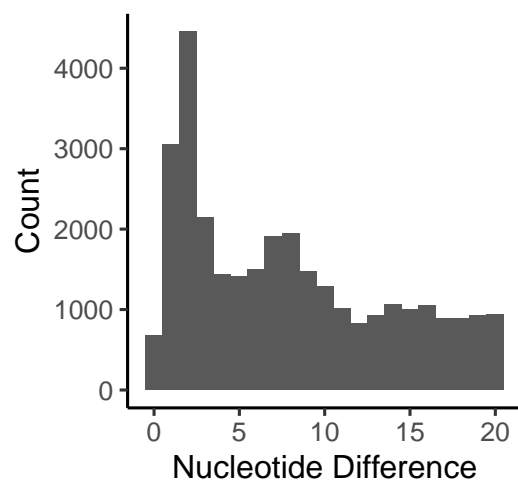
IGHV5–51*01_03

19841 sequences assigned
1615 (8.1%) exact matches, in which:
1085 unique CDR3
6 unique J



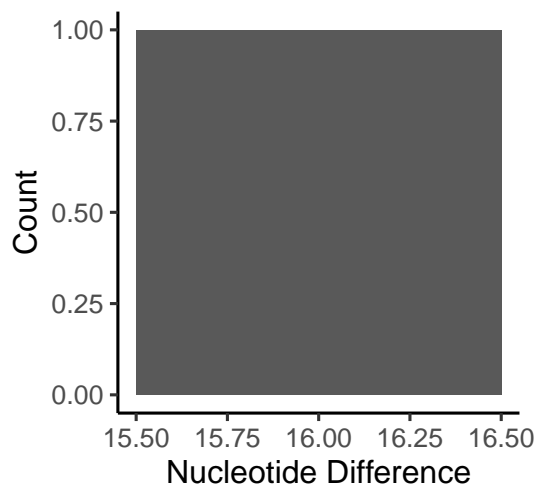
IGHV4–59*12

40048 sequences assigned
679 (1.7%) exact matches, in which:
594 unique CDR3
6 unique J



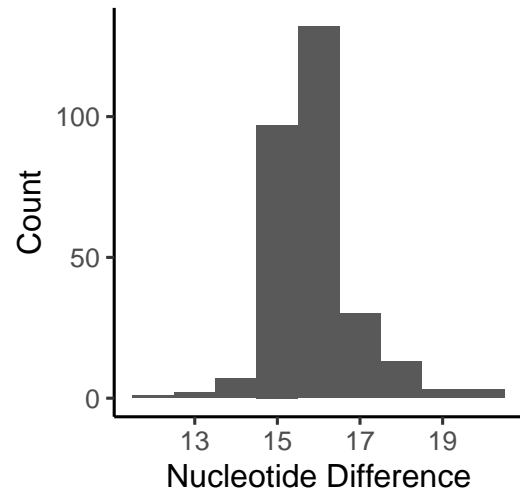
IGHV4/OR15–8*02

17 sequences assigned
No exact matches.



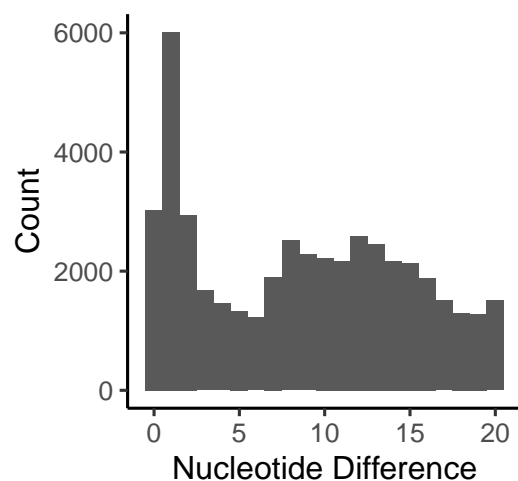
IGHV5–78*01

289 sequences assigned
No exact matches.



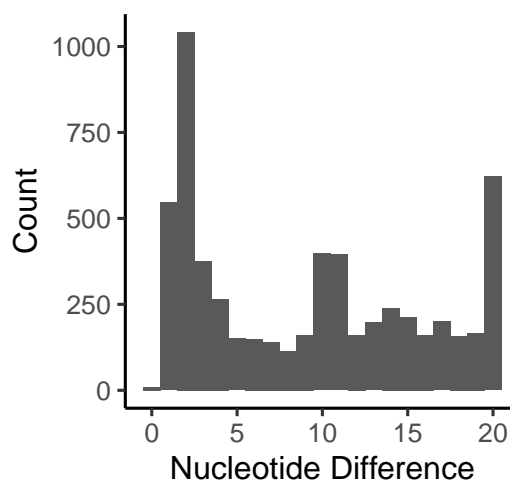
IGHV4–61*02

58778 sequences assigned
3025 (5.1%) exact matches, in which:
1735 unique CDR3
6 unique J



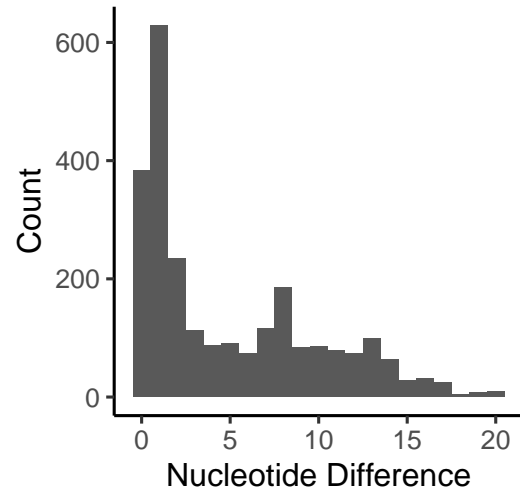
IGHV5–51*07

8765 sequences assigned
10 (0.1%) exact matches, in which:
10 unique CDR3
3 unique J



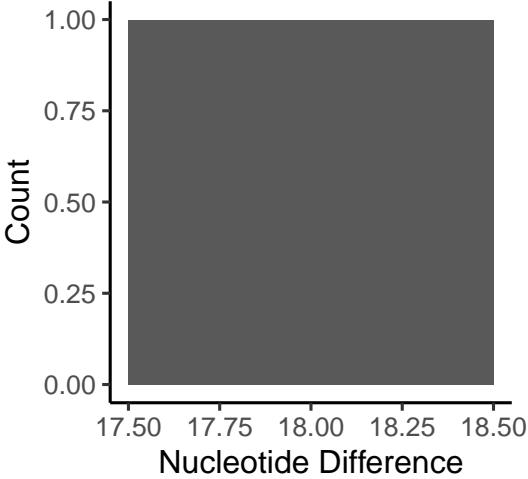
IGHV6–1*01_02

2808 sequences assigned
383 (13.6%) exact matches, in which:
250 unique CDR3
5 unique J



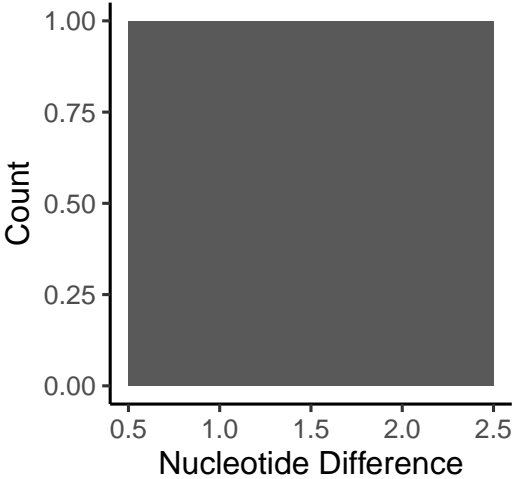
IGHV3/OR16-10*01_03

1 sequences assigned
No exact matches.



IGHV7-4-1*02

107 sequences assigned
No exact matches.





Warning – no inferred sequences found.