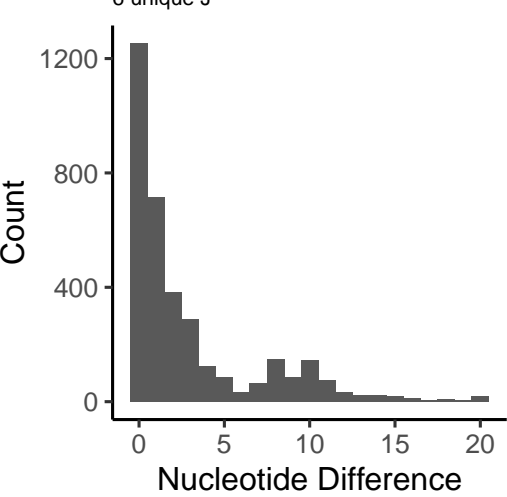


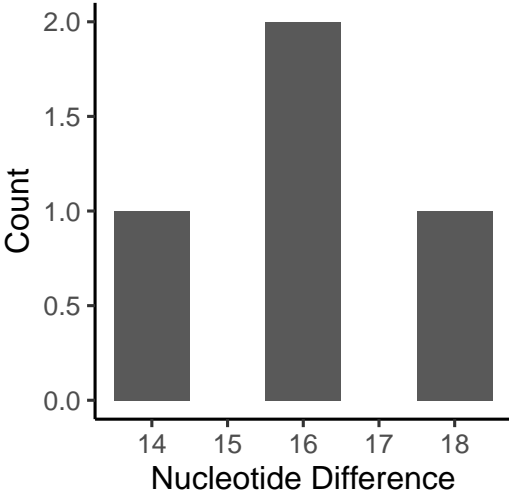
IGHV1-2*04

4698 sequences assigned
1253 (26.7%) exact matches, in which:
1151 unique CDR3
6 unique J



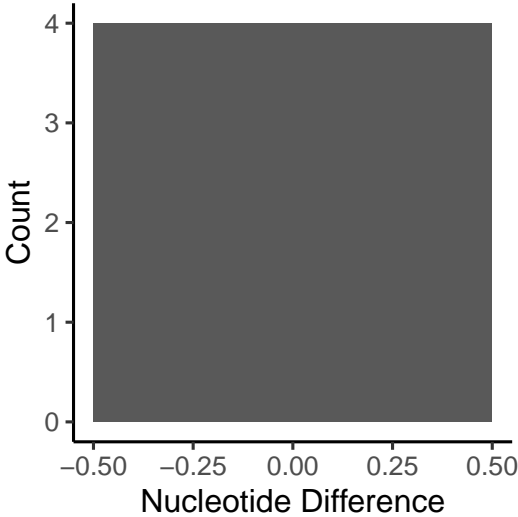
IGHV1-8*02

6 sequences assigned
No exact matches.



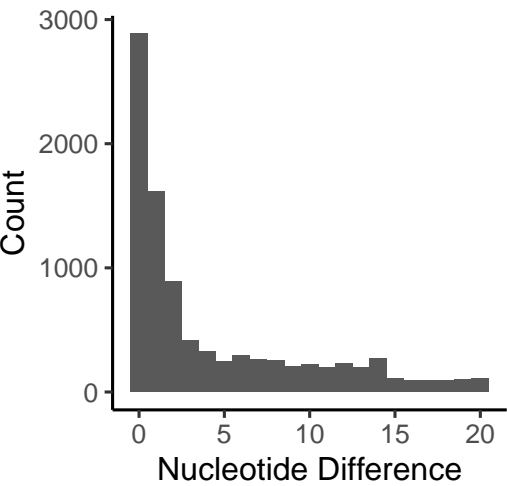
IGHV1-45*02

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



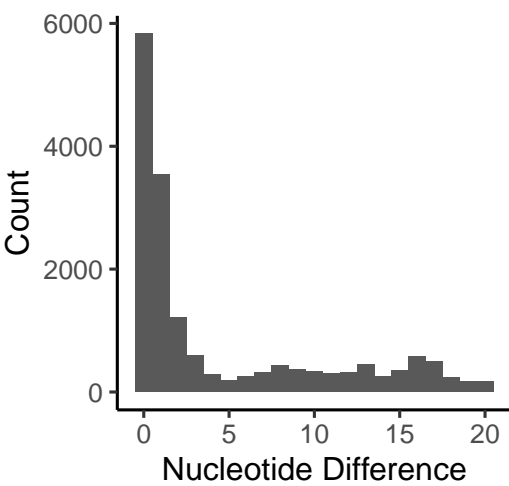
IGHV1-3*01_05

9488 sequences assigned
2886 (30.4%) exact matches, in which:
2616 unique CDR3
6 unique J



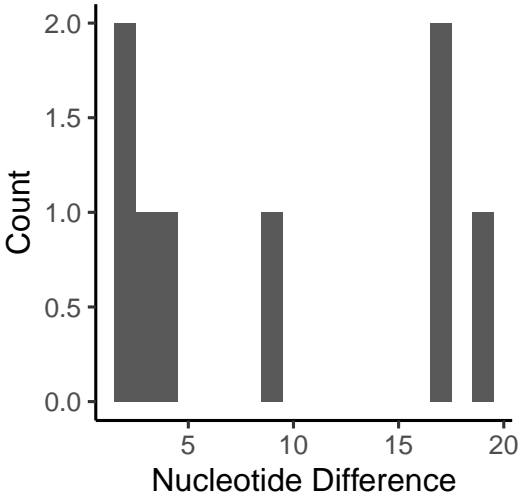
IGHV1-18*04

18589 sequences assigned
5832 (31.4%) exact matches, in which:
5291 unique CDR3
6 unique J



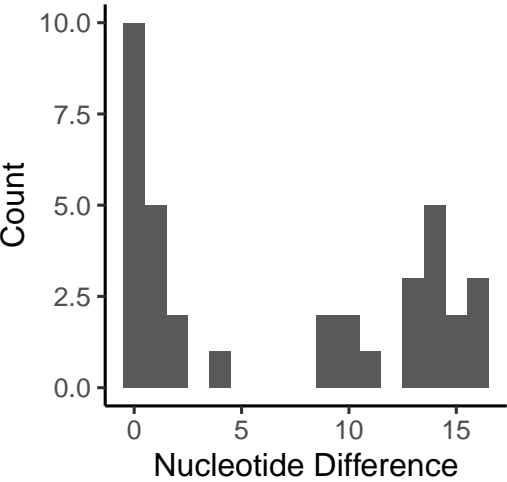
IGHV1-45*03

8 sequences assigned
No exact matches.



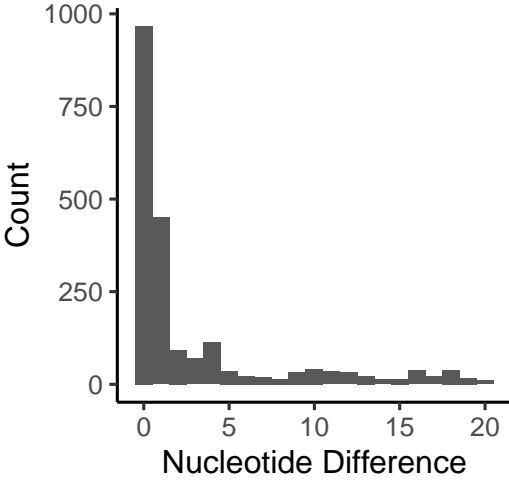
IGHV1-8*01

39 sequences assigned
10 (25.6%) exact matches, in which:
10 unique CDR3
3 unique J



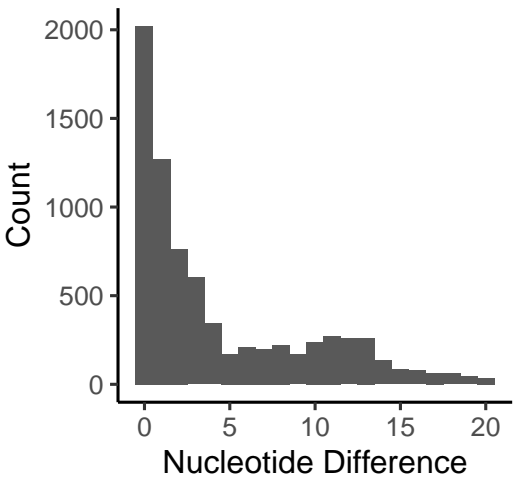
IGHV1-24*01

2169 sequences assigned
967 (44.6%) exact matches, in which:
893 unique CDR3
6 unique J



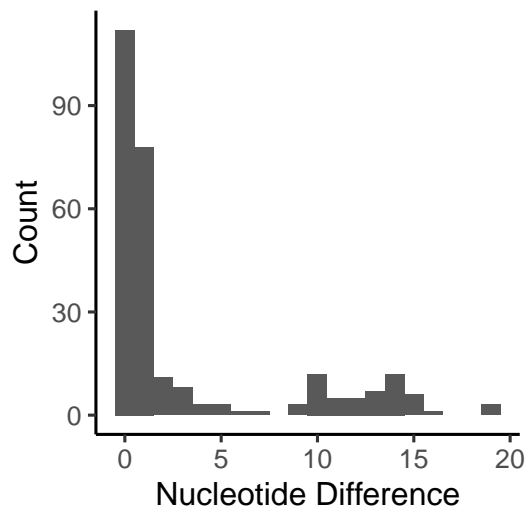
IGHV1-46*01

8070 sequences assigned
2021 (25%) exact matches, in which:
1870 unique CDR3
6 unique J



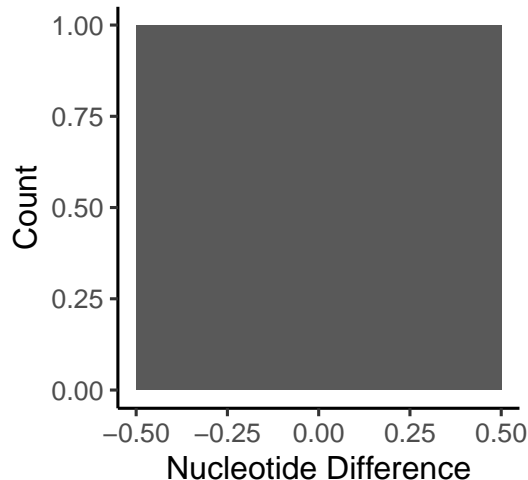
IGHV1-58*02

276 sequences assigned
112 (40.6%) exact matches, in which:
102 unique CDR3
6 unique J



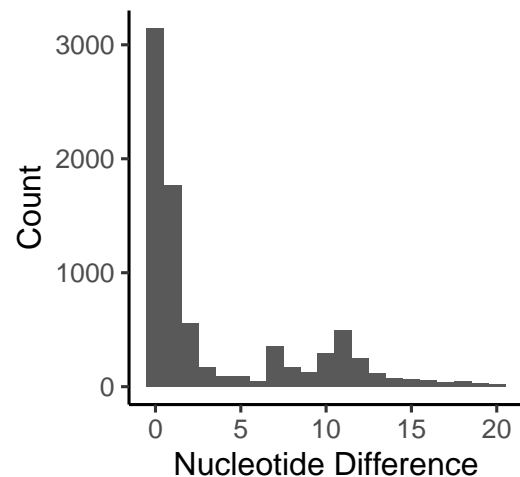
IGHV1-68*02_03

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



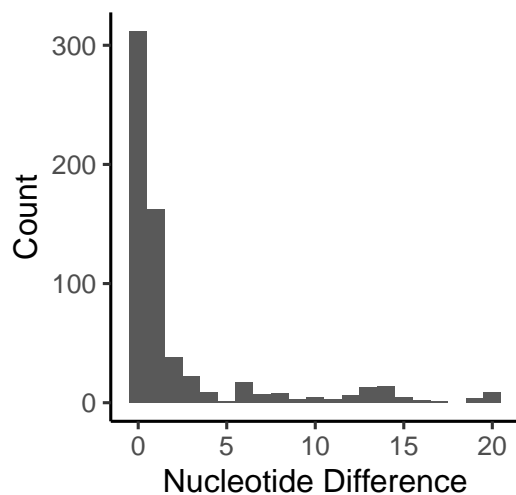
IGHV1-69*04_09

8141 sequences assigned
3144 (38.6%) exact matches, in which:
2976 unique CDR3
6 unique J



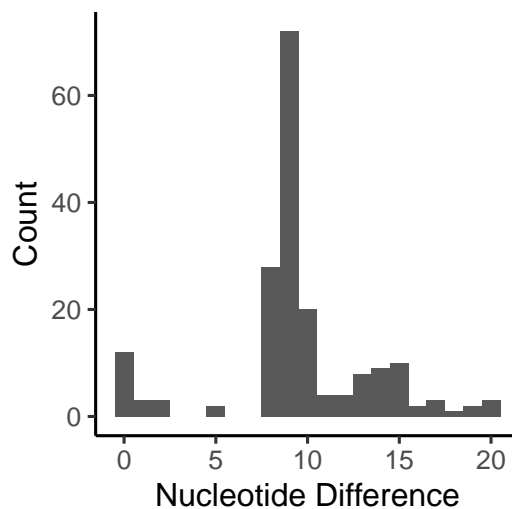
IGHV1-58*01_03

667 sequences assigned
312 (46.8%) exact matches, in which:
288 unique CDR3
6 unique J



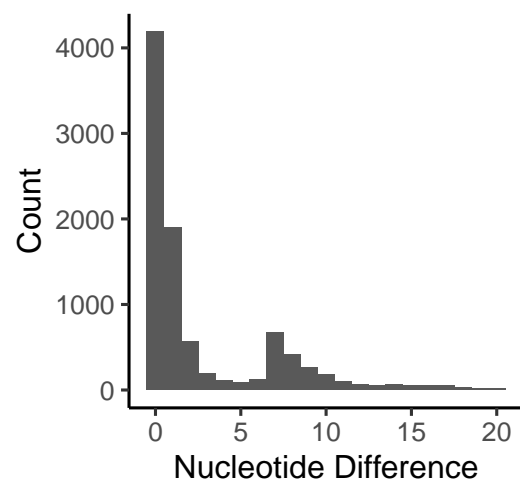
IGHV1-69-2*01

196 sequences assigned
12 (6.1%) exact matches, in which:
10 unique CDR3
4 unique J



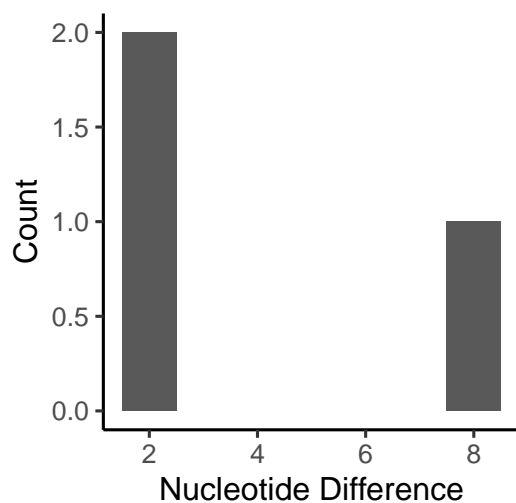
IGHV1-69*06_14

9776 sequences assigned
4189 (42.8%) exact matches, in which:
3976 unique CDR3
6 unique J



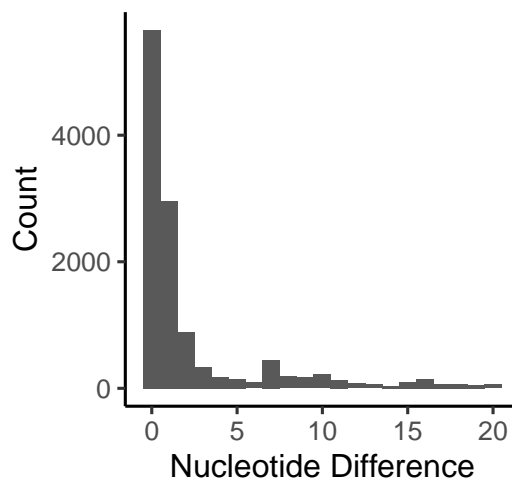
IGHV1-68*01

3 sequences assigned
No exact matches.



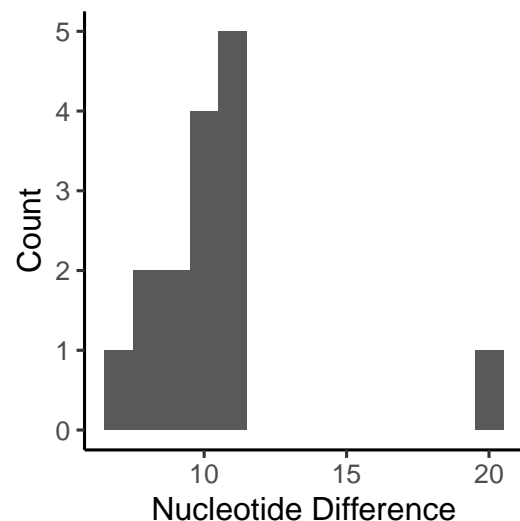
IGHV1-69*01_12_13

12355 sequences assigned
5662 (45.8%) exact matches, in which:
5314 unique CDR3
6 unique J



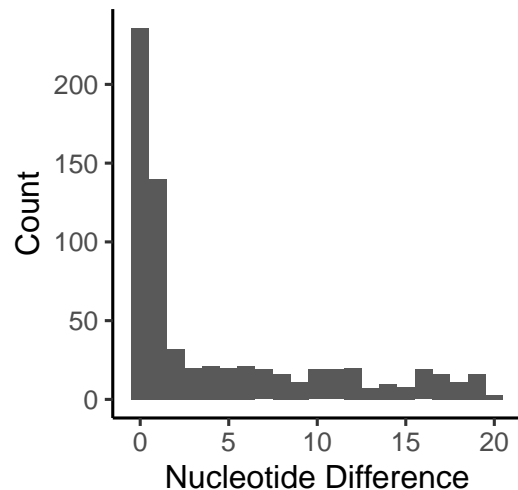
IGHV1-NL1*01

15 sequences assigned
No exact matches.



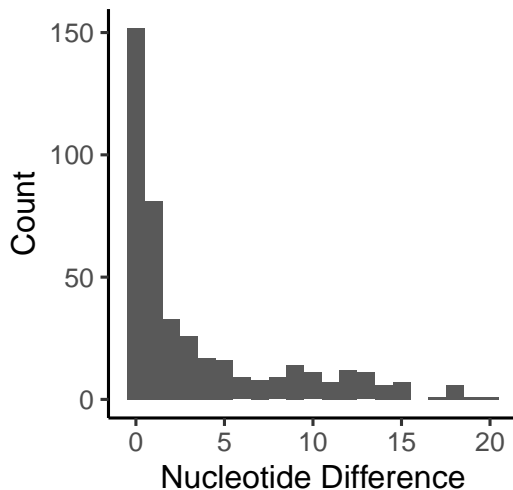
IGHV2-5*02

802 sequences assigned
236 (29.4%) exact matches, in which:
223 unique CDR3
6 unique J



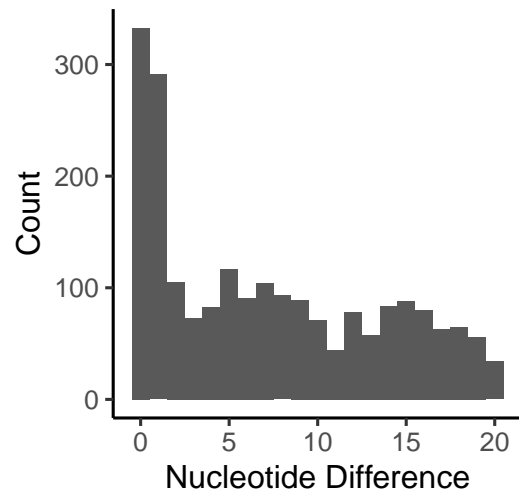
IGHV2-70*04

440 sequences assigned
152 (34.5%) exact matches, in which:
138 unique CDR3
6 unique J



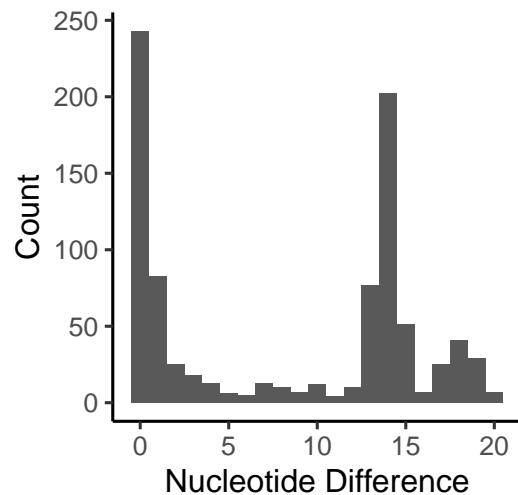
IGHV3-7*01

2334 sequences assigned
333 (14.3%) exact matches, in which:
328 unique CDR3
6 unique J



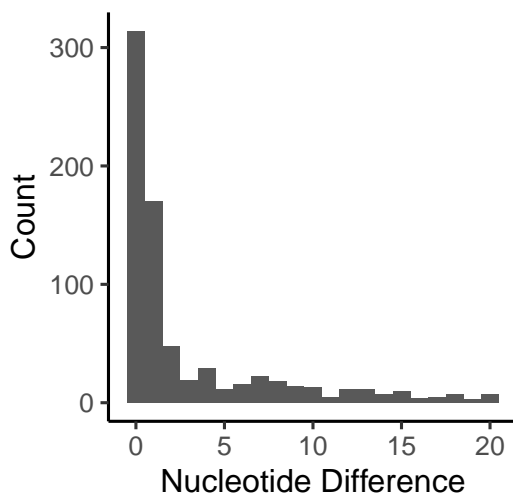
IGHV2-26*01

899 sequences assigned
243 (27%) exact matches, in which:
227 unique CDR3
5 unique J



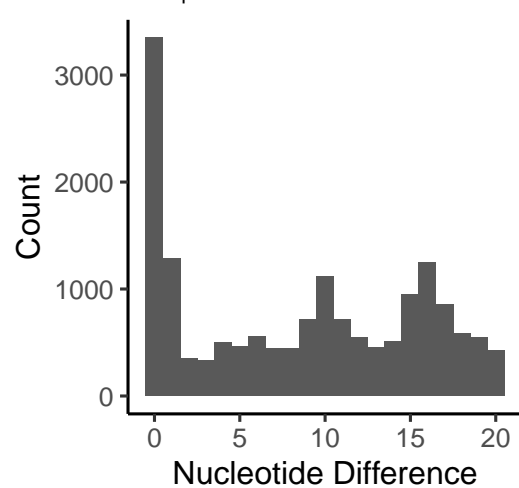
IGHV2-70*11_15

843 sequences assigned
314 (37.2%) exact matches, in which:
291 unique CDR3
6 unique J



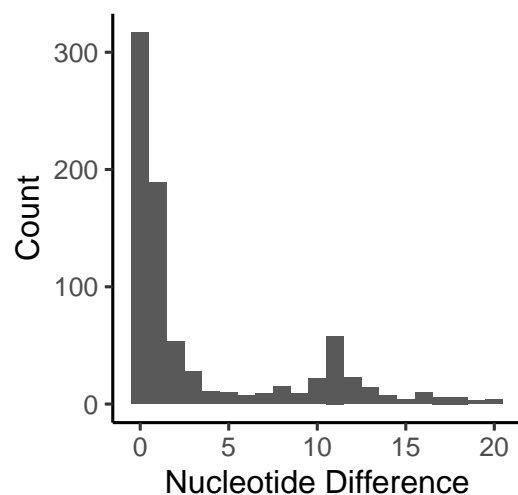
IGHV3-7*03

21816 sequences assigned
3349 (15.4%) exact matches, in which:
2418 unique CDR3
6 unique J



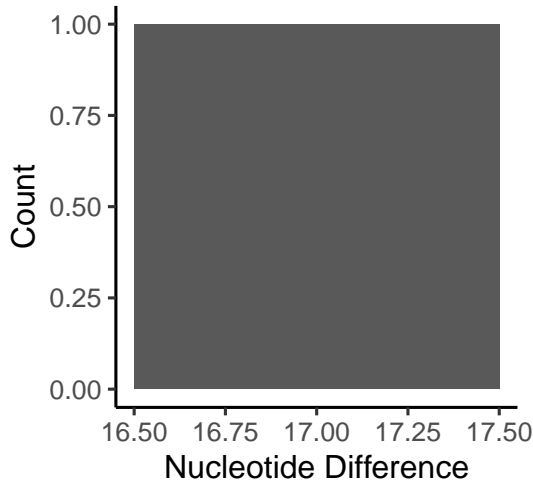
IGHV2-70*01

814 sequences assigned
317 (38.9%) exact matches, in which:
294 unique CDR3
6 unique J



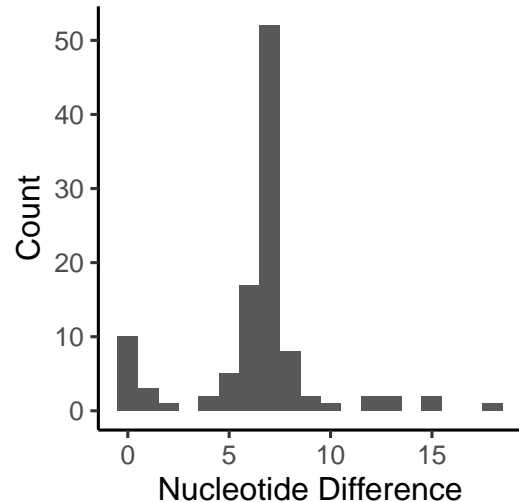
IGHV2-70D*14

1 sequences assigned
No exact matches.



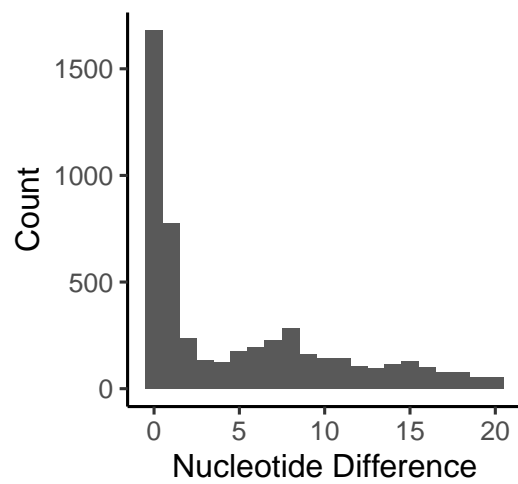
IGHV3-9*01

130 sequences assigned
10 (7.7%) exact matches, in which:
7 unique CDR3
4 unique J



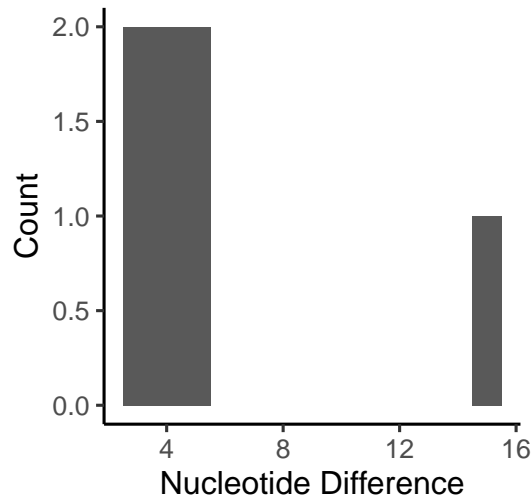
IGHV3-11*06

5378 sequences assigned
1680 (31.2%) exact matches, in which:
1268 unique CDR3
6 unique J



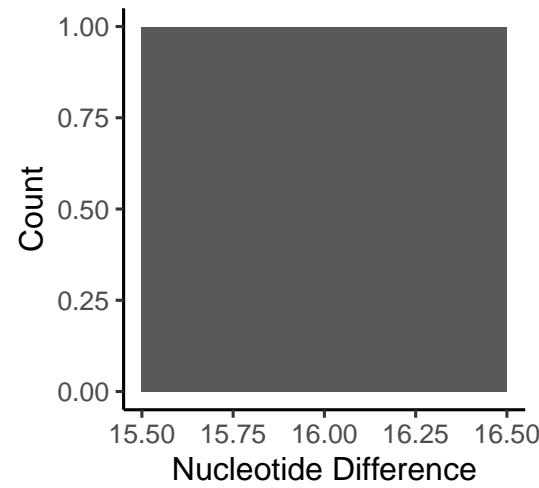
IGHV3-19*01

7 sequences assigned
No exact matches.



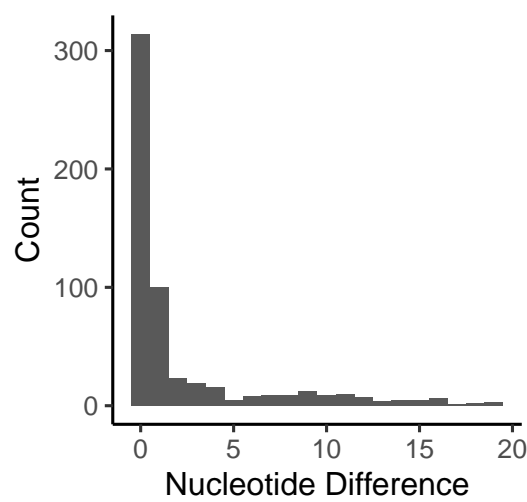
IGHV3-22*01_02

1 sequences assigned
No exact matches.



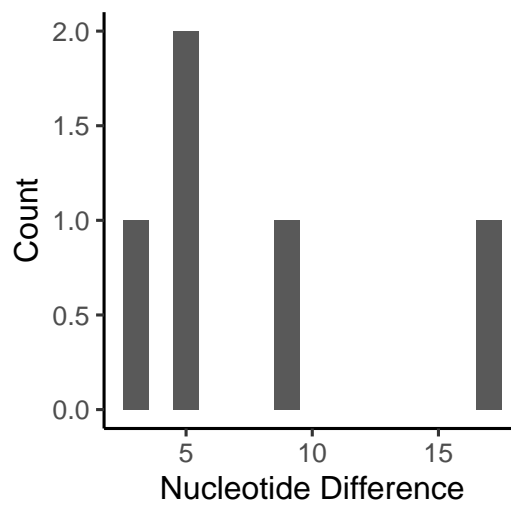
IGHV3-13*05

648 sequences assigned
314 (48.5%) exact matches, in which:
220 unique CDR3
5 unique J



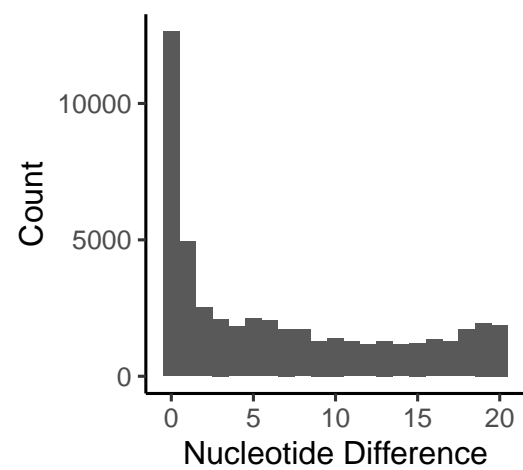
IGHV3-20*03_04

7 sequences assigned
No exact matches.



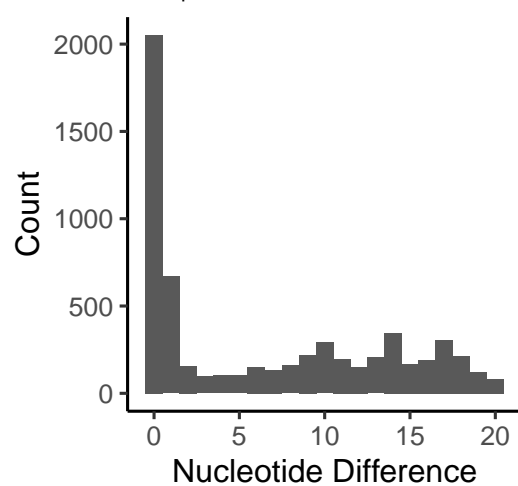
IGHV3-23*01_04

58127 sequences assigned
12639 (21.7%) exact matches, in which:
8789 unique CDR3
6 unique J



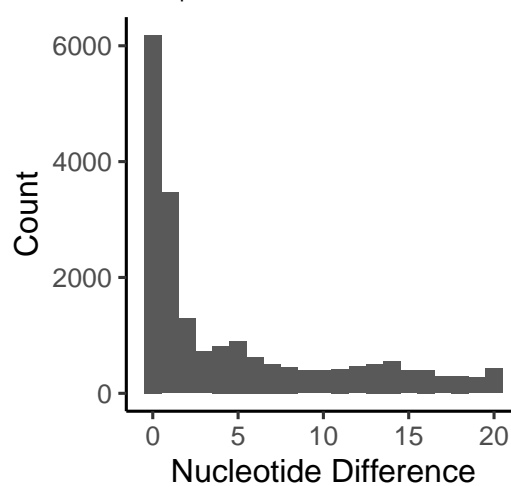
IGHV3-15*01_02

7187 sequences assigned
2052 (28.6%) exact matches, in which:
1572 unique CDR3
6 unique J



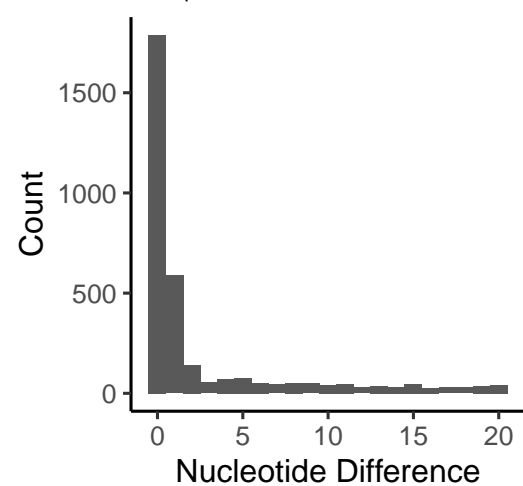
IGHV3-21*01_02

26325 sequences assigned
6185 (23.5%) exact matches, in which:
4421 unique CDR3
6 unique J



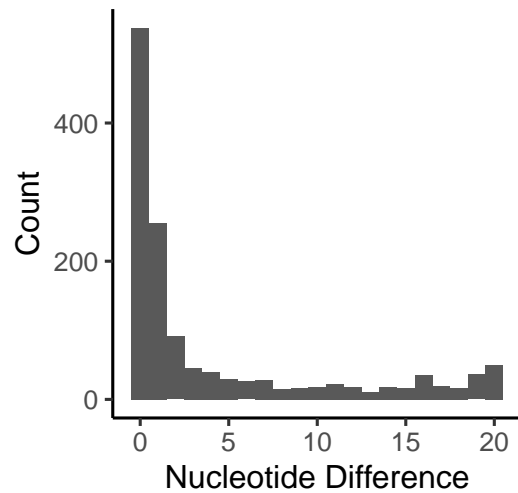
IGHV3-30-3*01

3923 sequences assigned
1788 (45.6%) exact matches, in which:
1371 unique CDR3
6 unique J



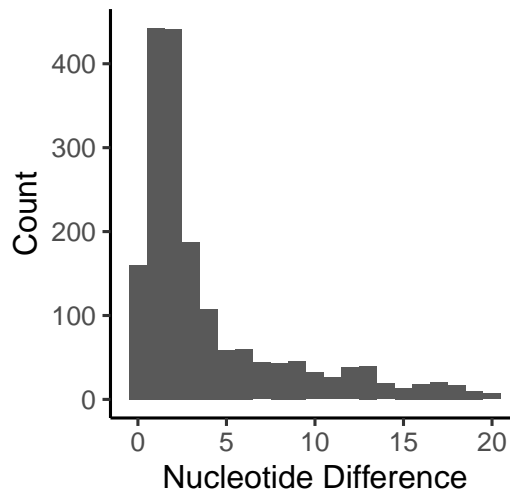
IGHV3–30*03

1432 sequences assigned
538 (37.6%) exact matches, in which:
508 unique CDR3
6 unique J



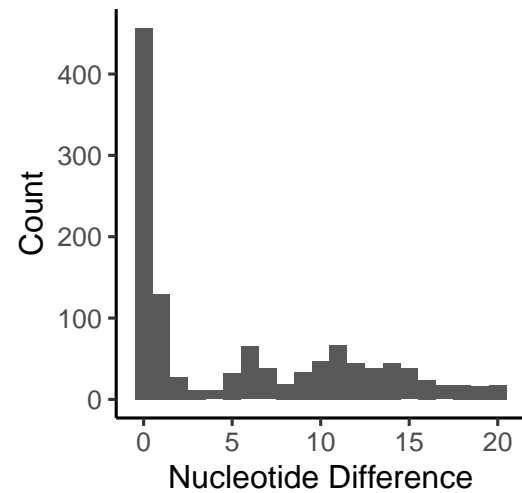
IGHV3–33*06

1875 sequences assigned
160 (8.5%) exact matches, in which:
159 unique CDR3
5 unique J



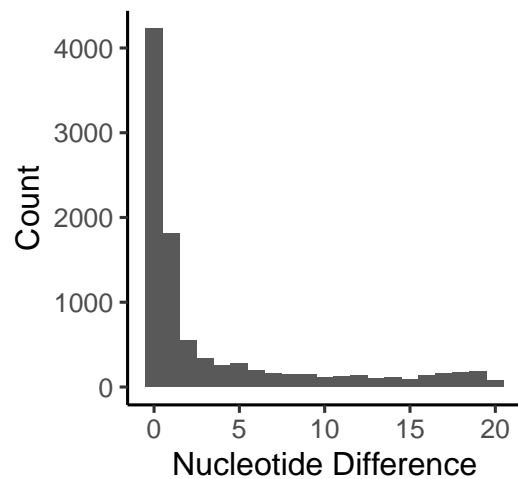
IGHV3–43*02

1299 sequences assigned
457 (35.2%) exact matches, in which:
336 unique CDR3
6 unique J



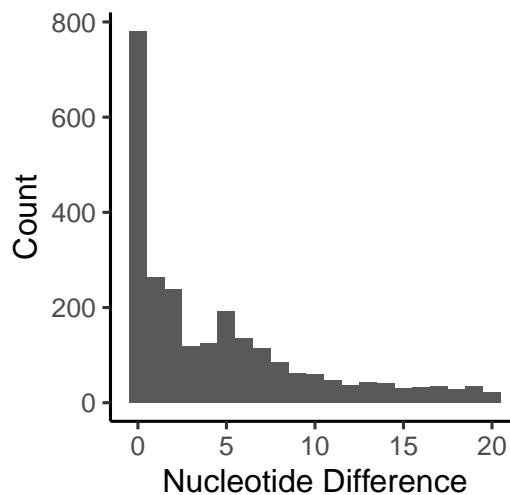
IGHV3–30*18

10462 sequences assigned
4227 (40.4%) exact matches, in which:
3115 unique CDR3
6 unique J



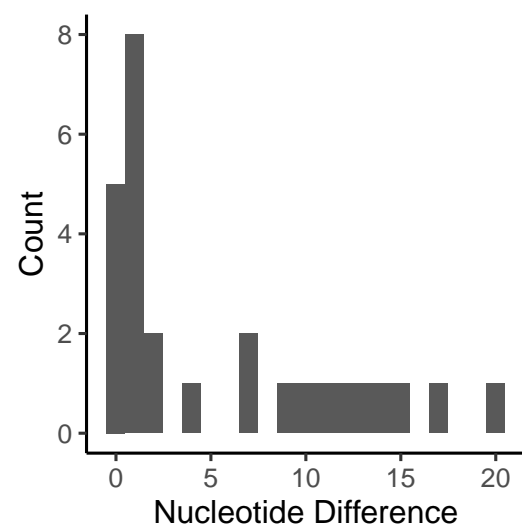
IGHV3–33*08

2678 sequences assigned
781 (29.2%) exact matches, in which:
717 unique CDR3
6 unique J



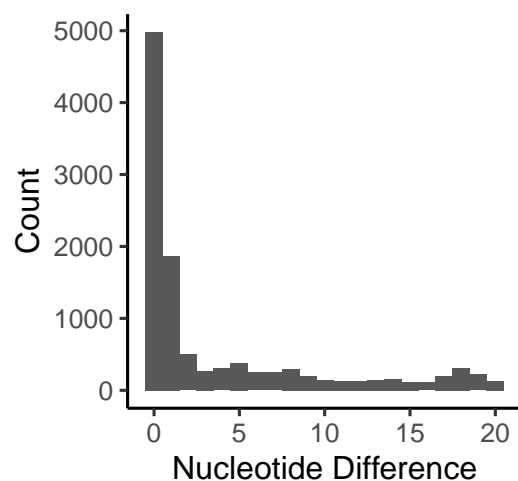
IGHV3–47*01

27 sequences assigned
5 (18.5%) exact matches, in which:
3 unique CDR3
3 unique J



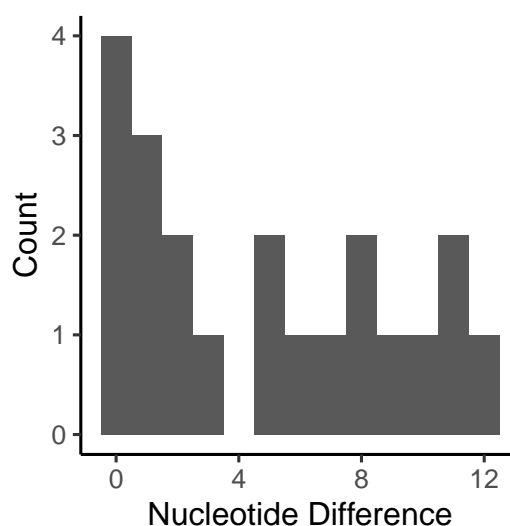
IGHV3–33*01

11880 sequences assigned
4981 (41.9%) exact matches, in which:
3725 unique CDR3
6 unique J



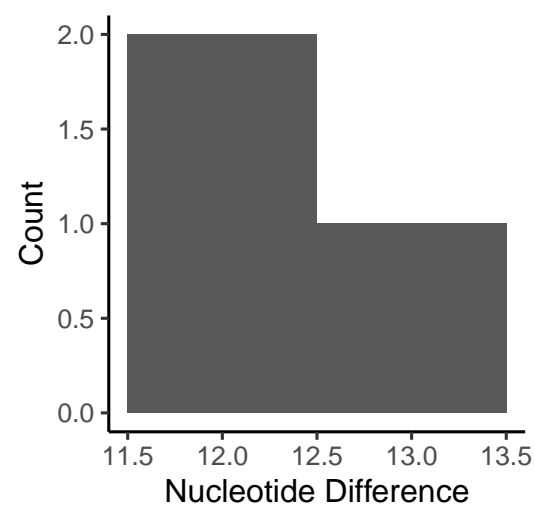
IGHV3–35*01

21 sequences assigned
4 (19%) exact matches, in which:
4 unique CDR3
2 unique J



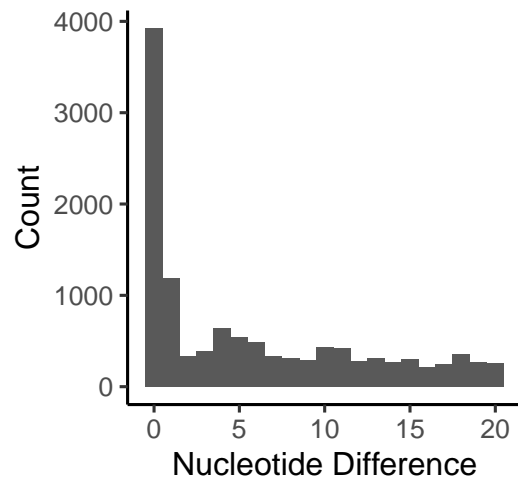
IGHV3–47*02

3 sequences assigned
No exact matches.



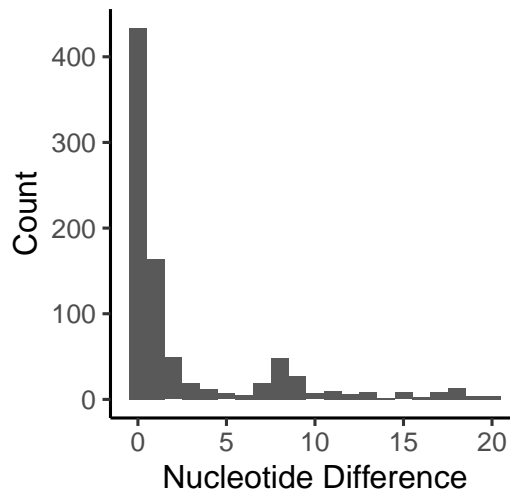
IGHV3-48*03

13789 sequences assigned
3923 (28.5%) exact matches, in which:
2898 unique CDR3
6 unique J



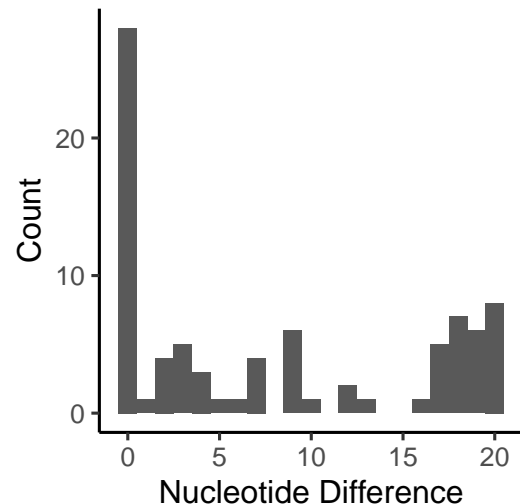
IGHV3-53*04

897 sequences assigned
434 (48.4%) exact matches, in which:
326 unique CDR3
6 unique J



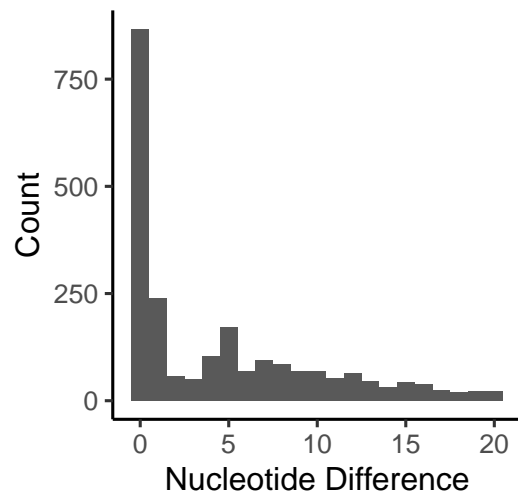
IGHV3-64*02_07

118 sequences assigned
28 (23.7%) exact matches, in which:
21 unique CDR3
3 unique J



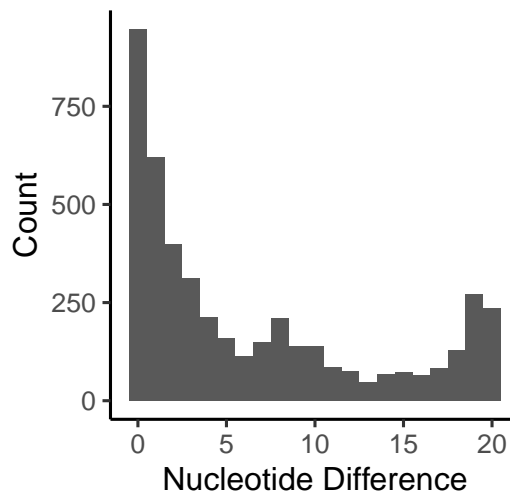
IGHV3-49*04

2411 sequences assigned
867 (36%) exact matches, in which:
662 unique CDR3
6 unique J



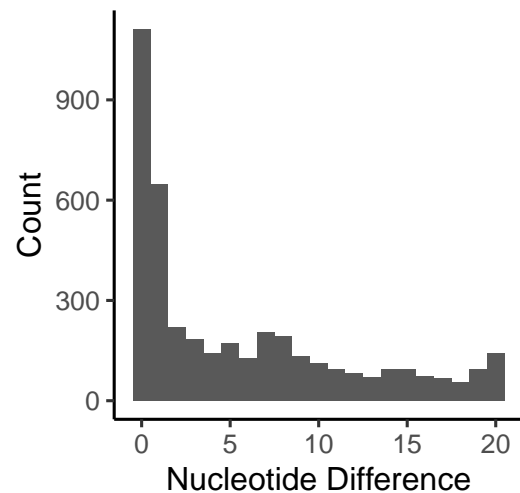
IGHV3-53*01_02

5117 sequences assigned
947 (18.5%) exact matches, in which:
693 unique CDR3
6 unique J



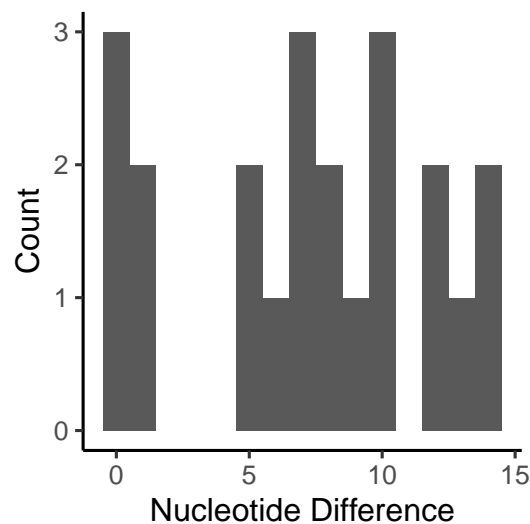
IGHV3-66*01

4418 sequences assigned
1112 (25.2%) exact matches, in which:
821 unique CDR3
6 unique J



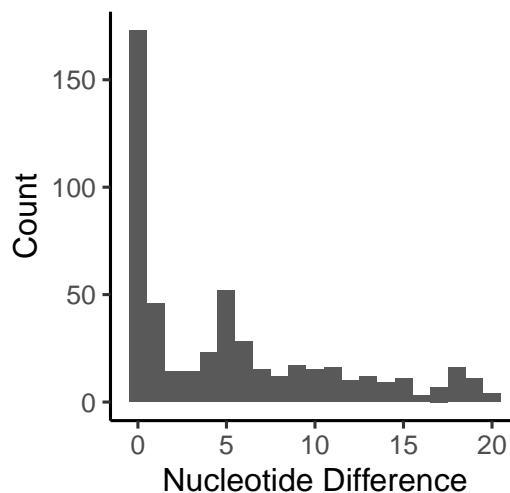
IGHV3-52*01_03

22 sequences assigned
3 (13.6%) exact matches, in which:
3 unique CDR3
3 unique J



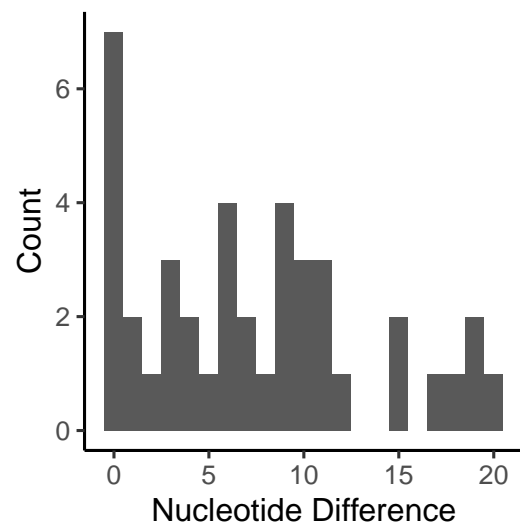
IGHV3-64*01

541 sequences assigned
173 (32%) exact matches, in which:
132 unique CDR3
5 unique J



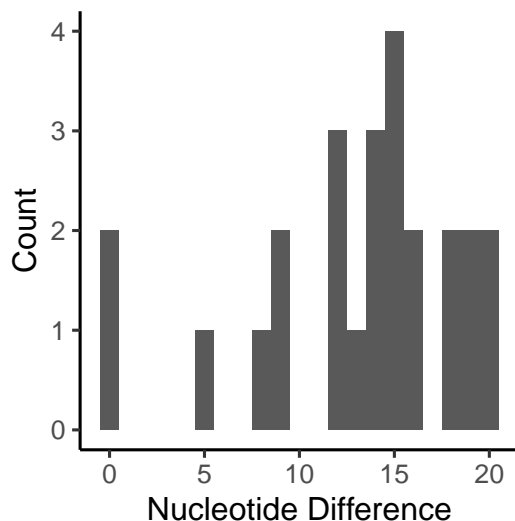
IGHV3-69-1*01

49 sequences assigned
7 (14.3%) exact matches, in which:
6 unique CDR3
2 unique J



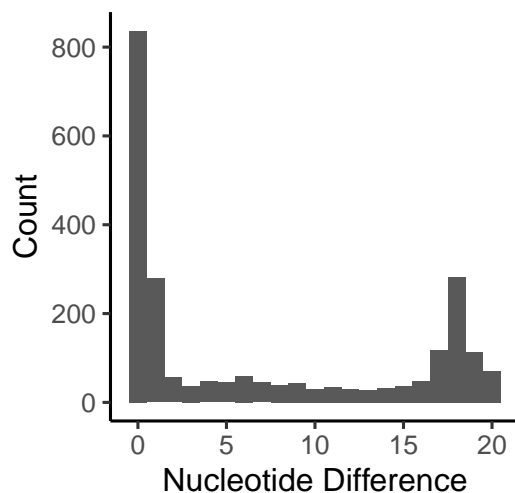
IGHV3-69-1*02

44 sequences assigned
2 (4.5%) exact matches, in which:
2 unique CDR3
2 unique J



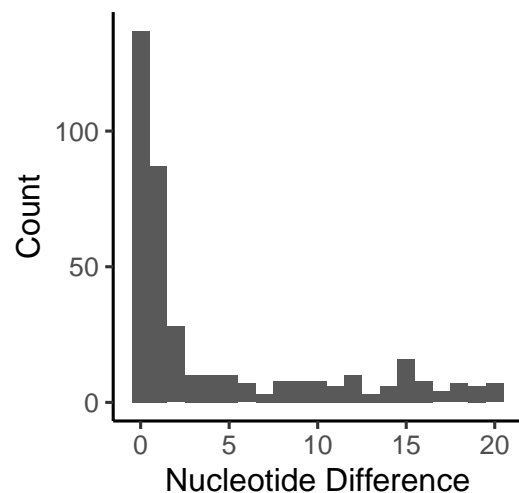
IGHV3-73*01_02

3143 sequences assigned
837 (26.6%) exact matches, in which:
611 unique CDR3
6 unique J



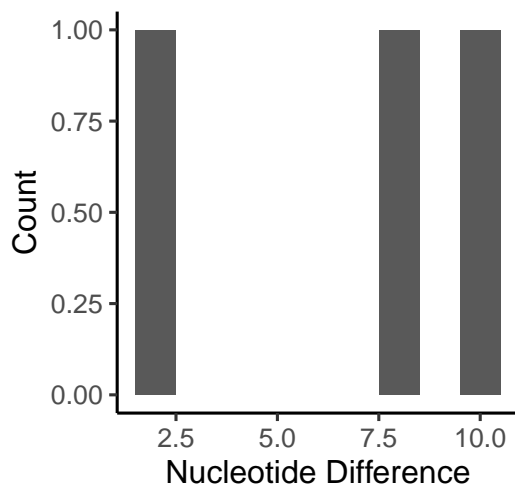
IGHV3-43D*04

416 sequences assigned
137 (32.9%) exact matches, in which:
93 unique CDR3
4 unique J



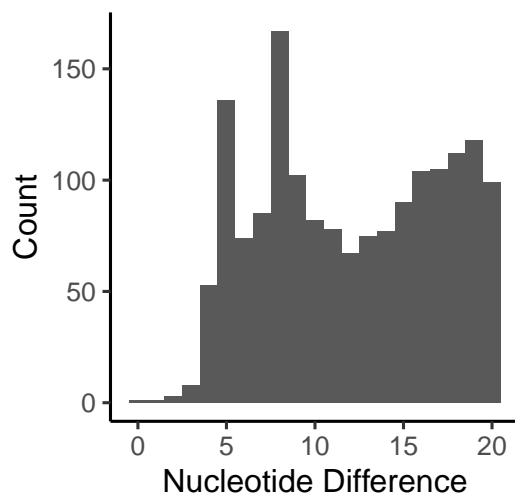
IGHV3-71*01_04

3 sequences assigned
No exact matches.



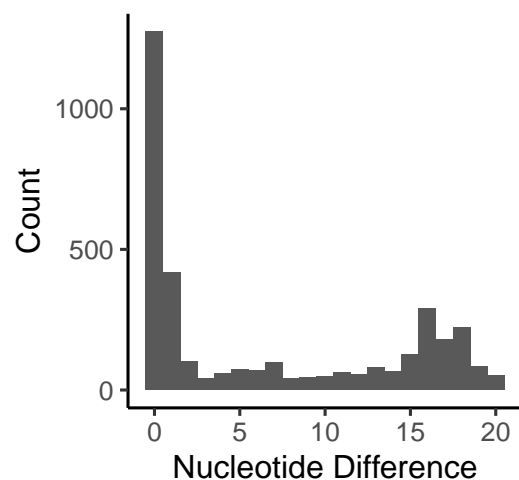
IGHV3-74*03

3164 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



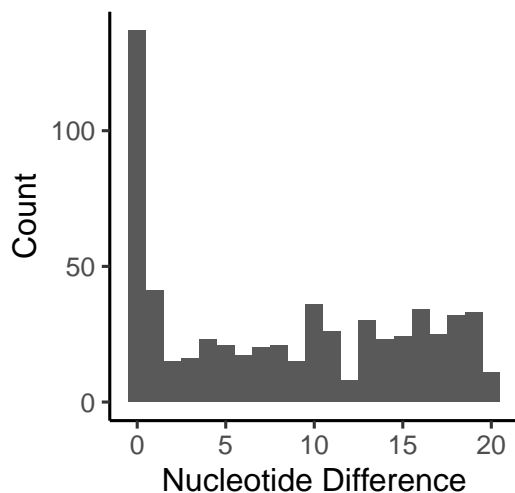
IGHV3-64D*06

4668 sequences assigned
1274 (27.3%) exact matches, in which:
828 unique CDR3
6 unique J



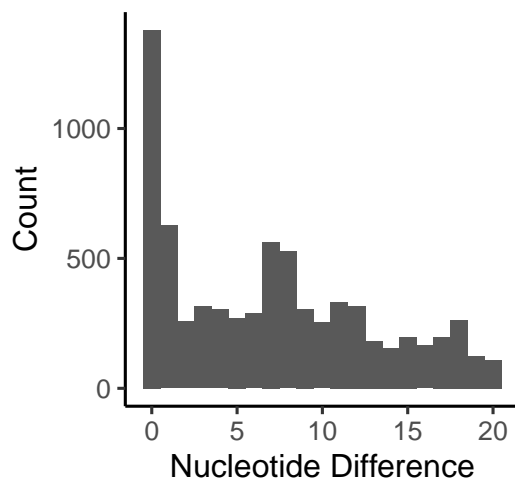
IGHV3-72*01

1488 sequences assigned
137 (9.2%) exact matches, in which:
102 unique CDR3
5 unique J



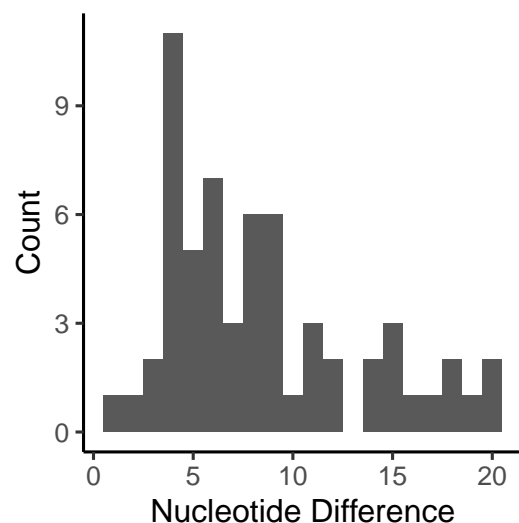
IGHV3-74*01_02

7644 sequences assigned
1379 (18%) exact matches, in which:
979 unique CDR3
6 unique J



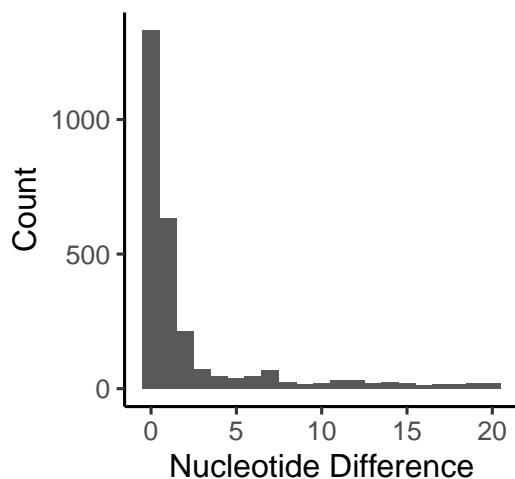
IGHV3-NL1*01

75 sequences assigned
No exact matches.



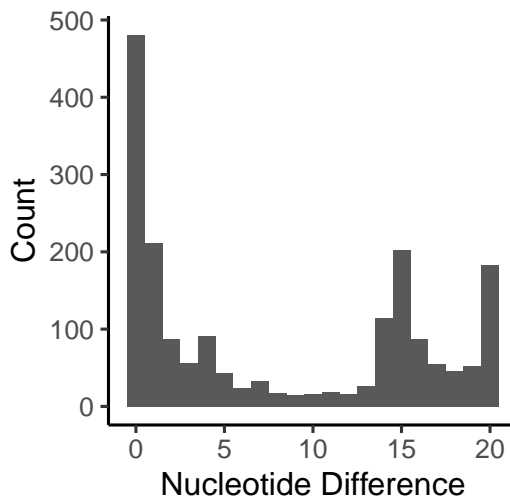
IGHV4-4*02_03

2988 sequences assigned
1331 (44.5%) exact matches, in which:
1207 unique CDR3
6 unique J



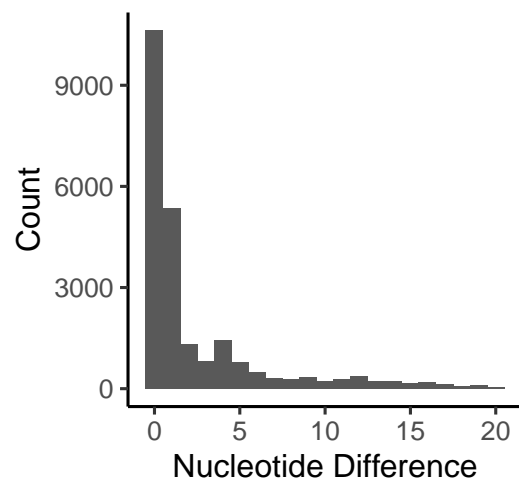
IGHV4-30-2*01

2595 sequences assigned
481 (18.5%) exact matches, in which:
425 unique CDR3
6 unique J



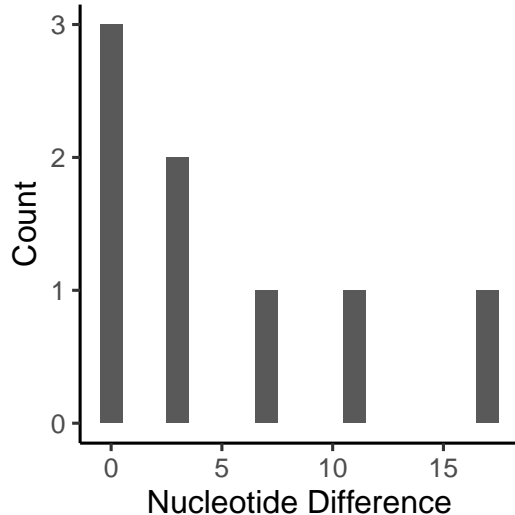
IGHV4-34*01_02

24299 sequences assigned
10627 (43.7%) exact matches, in which:
9550 unique CDR3
6 unique J



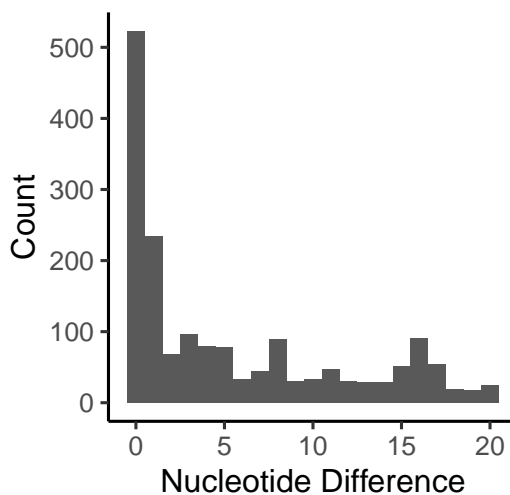
IGHV4-28*03

10 sequences assigned
3 (30%) exact matches, in which:
3 unique CDR3
3 unique J



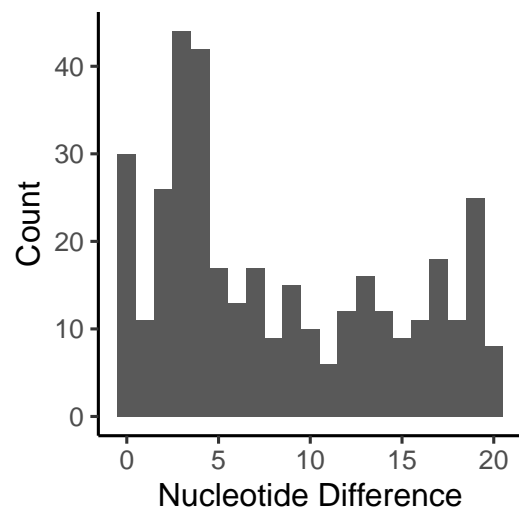
IGHV4-30-4*01

1819 sequences assigned
523 (28.8%) exact matches, in which:
490 unique CDR3
6 unique J



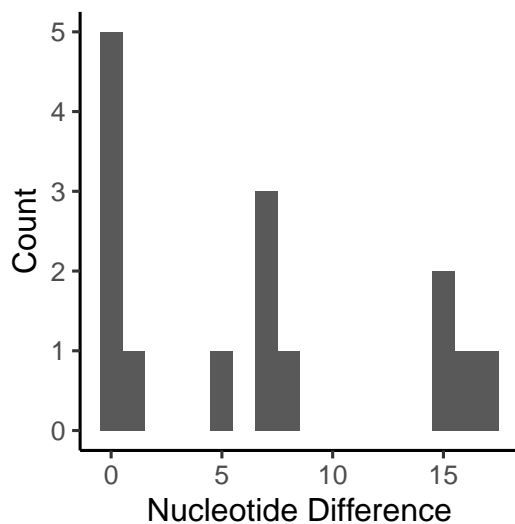
IGHV4-38-2*02

1059 sequences assigned
30 (2.8%) exact matches, in which:
30 unique CDR3
6 unique J



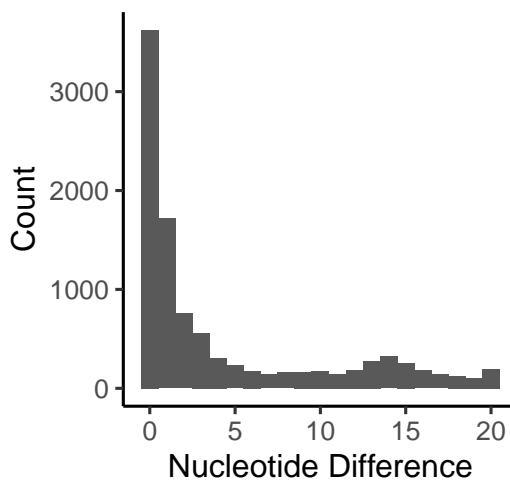
IGHV4-28*01_07

19 sequences assigned
5 (26.3%) exact matches, in which:
5 unique CDR3
3 unique J



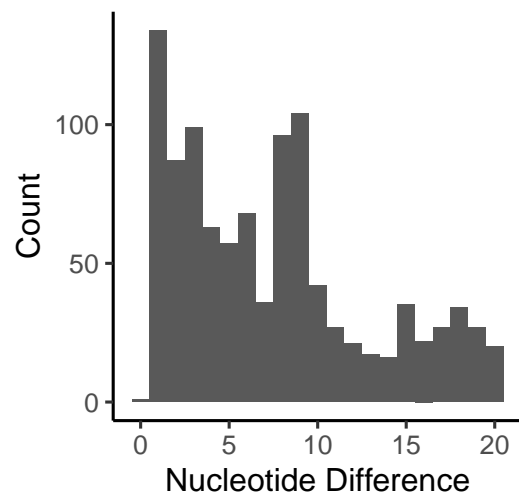
IGHV4-31*02

11436 sequences assigned
3623 (31.7%) exact matches, in which:
3390 unique CDR3
6 unique J



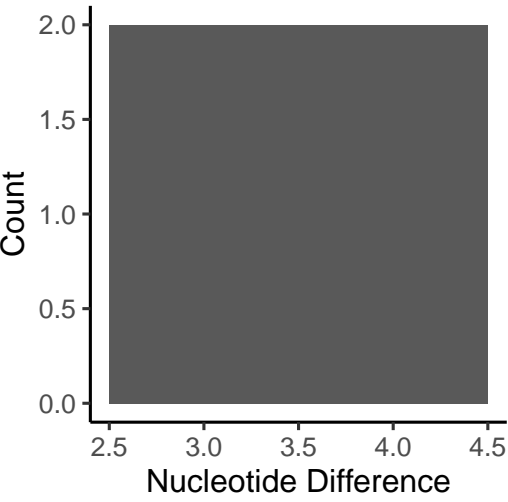
IGHV4-39*07

1388 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



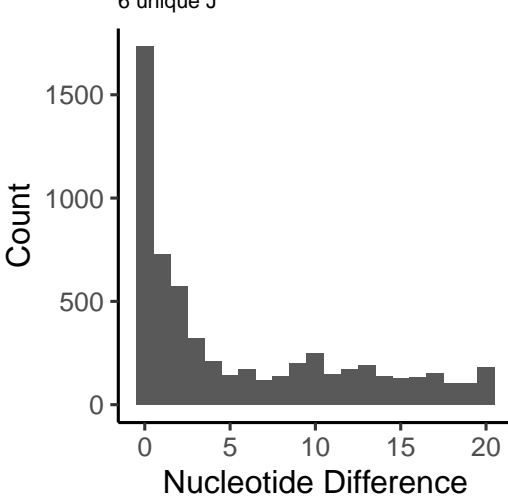
IGHV4-55*09

4 sequences assigned
No exact matches.



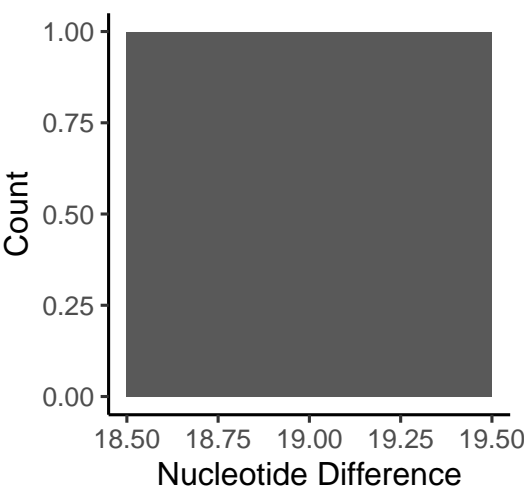
IGHV4-61*01

7669 sequences assigned
1734 (22.6%) exact matches, in which:
1657 unique CDR3
6 unique J



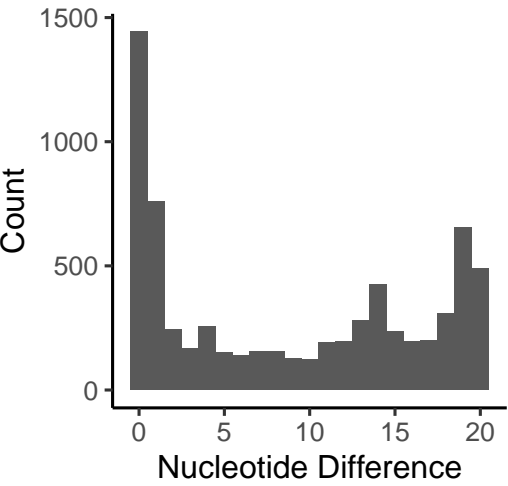
IGHV1/OR15-2*02_03

1 sequences assigned
No exact matches.



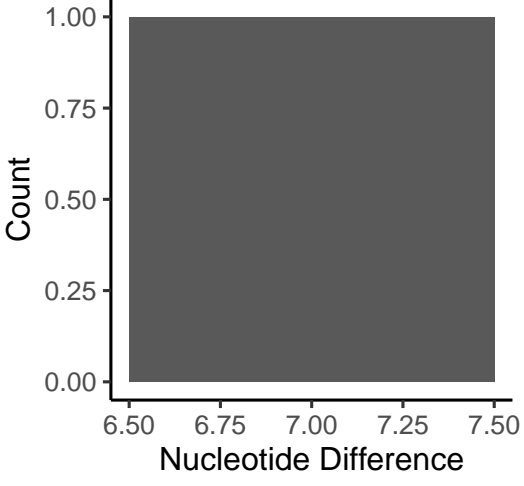
IGHV4-59*08

8134 sequences assigned
1443 (17.7%) exact matches, in which:
1360 unique CDR3
6 unique J



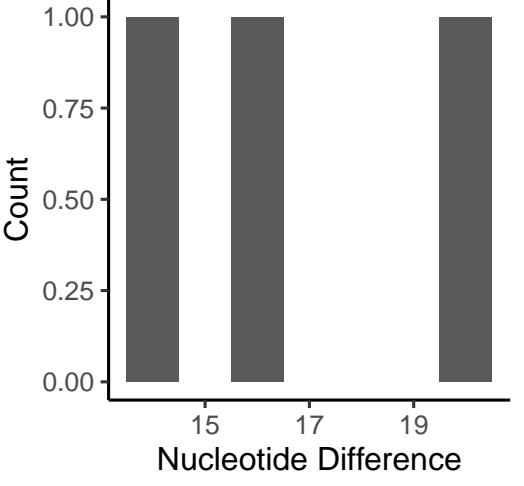
IGHV1/OR15-1*04

2 sequences assigned
No exact matches.



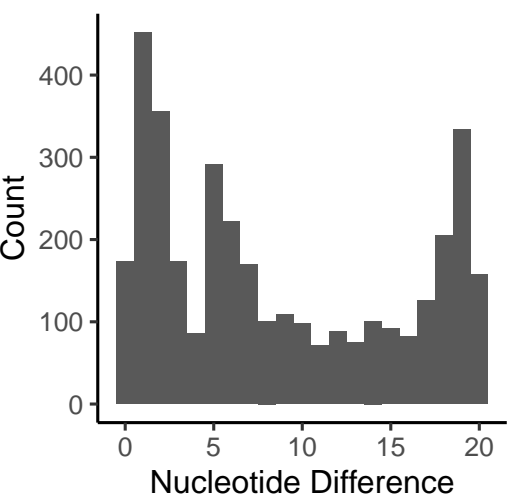
IGHV1/OR15-3*02

4 sequences assigned
No exact matches.



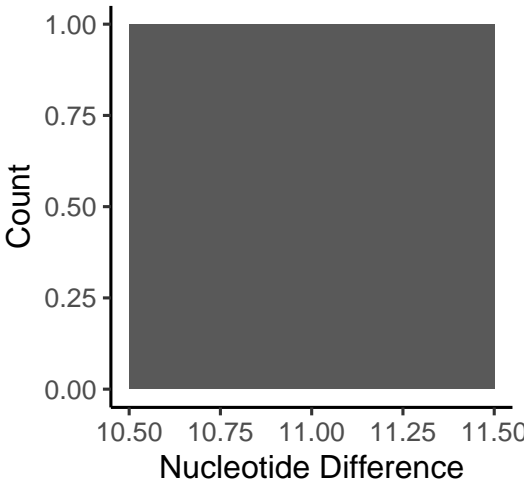
IGHV4-59*12

4673 sequences assigned
173 (3.7%) exact matches, in which:
172 unique CDR3
6 unique J



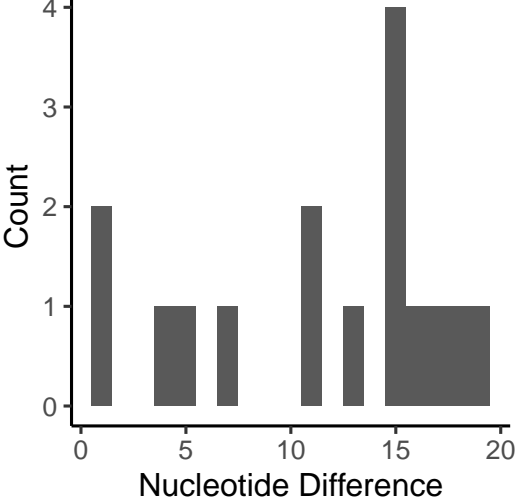
IGHV1/OR15-2*01

1 sequences assigned
No exact matches.



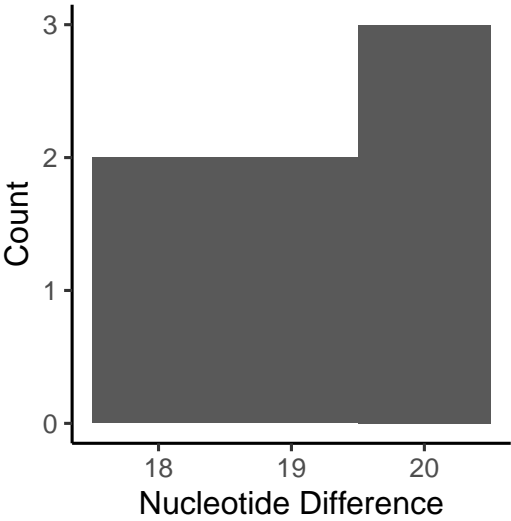
IGHV4/OR15-8*01

18 sequences assigned
No exact matches.



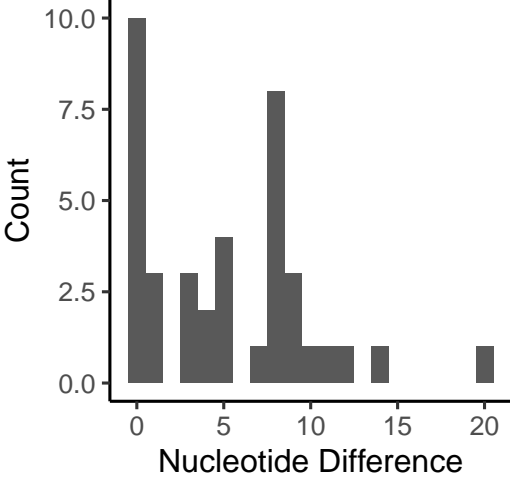
IGHV4/OR15-8*02

21 sequences assigned
No exact matches.



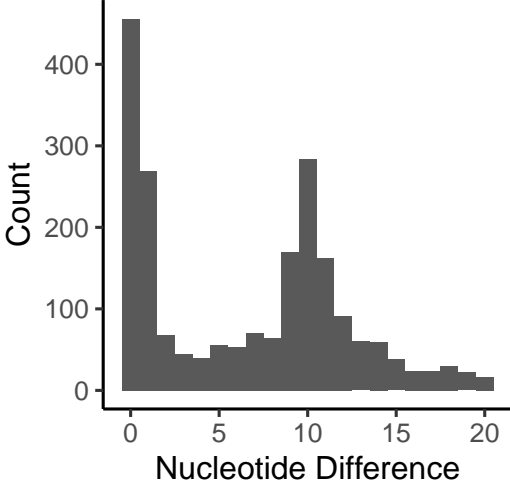
IGHV5-51*04

41 sequences assigned
10 (24.4%) exact matches, in which:
10 unique CDR3
4 unique J



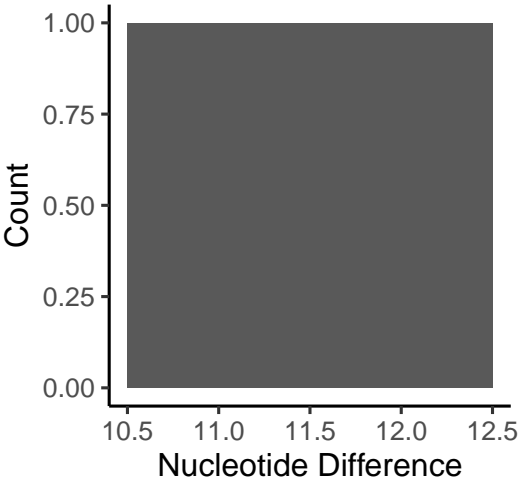
IGHV6-1*01_02

2183 sequences assigned
456 (20.9%) exact matches, in which:
434 unique CDR3
6 unique J



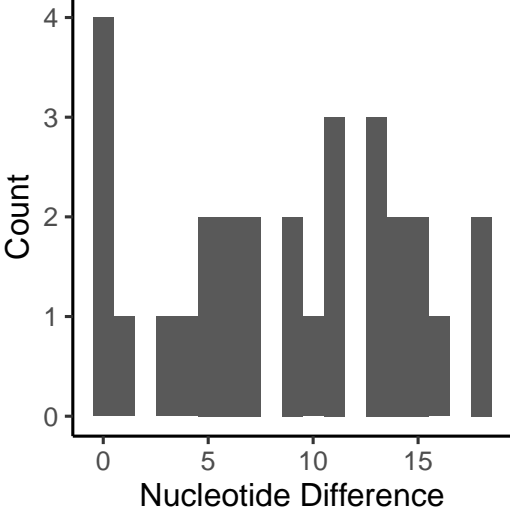
IGHV1/OR15-9*01

2 sequences assigned
No exact matches.



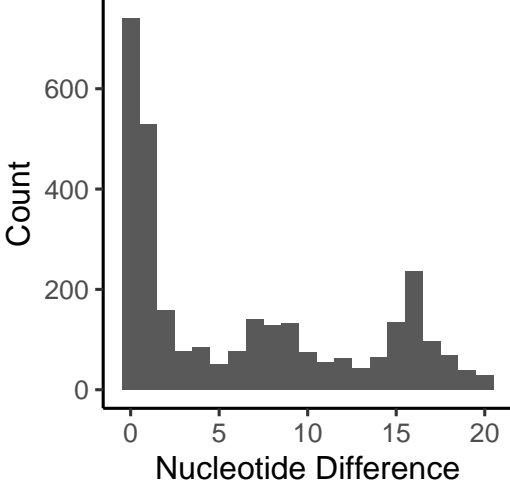
IGHV5-51*06

30 sequences assigned
4 (13.3%) exact matches, in which:
4 unique CDR3
2 unique J



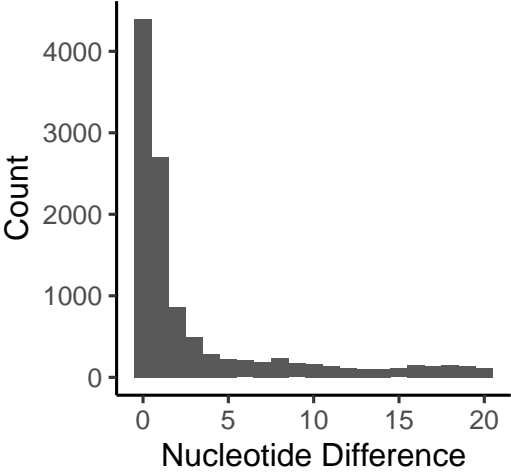
IGHV7-4-1*02

3310 sequences assigned
741 (22.4%) exact matches, in which:
682 unique CDR3
6 unique J



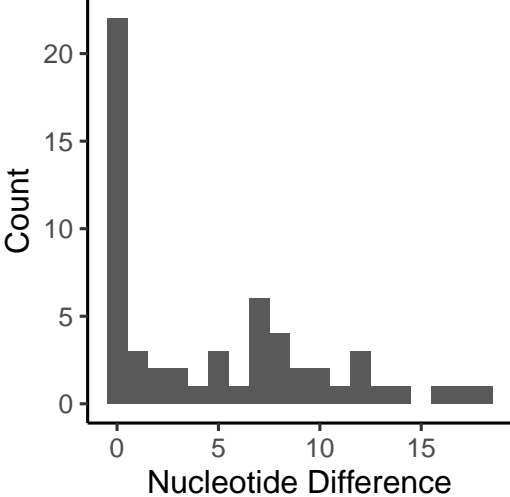
IGHV5-10-1*01_03

12612 sequences assigned
4396 (34.9%) exact matches, in which:
3666 unique CDR3
6 unique J



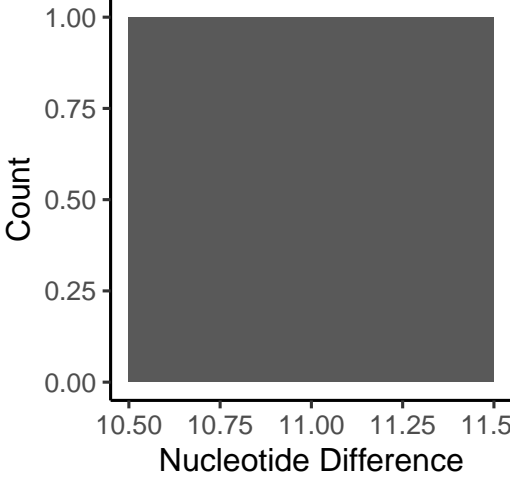
IGHV5-51*07

60 sequences assigned
22 (36.7%) exact matches, in which:
22 unique CDR3
4 unique J



IGHV7-81*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.