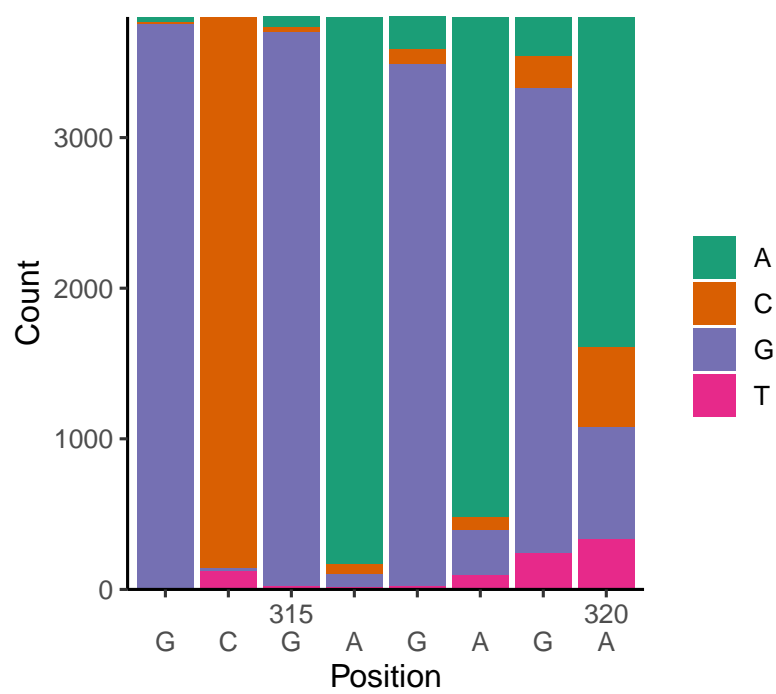


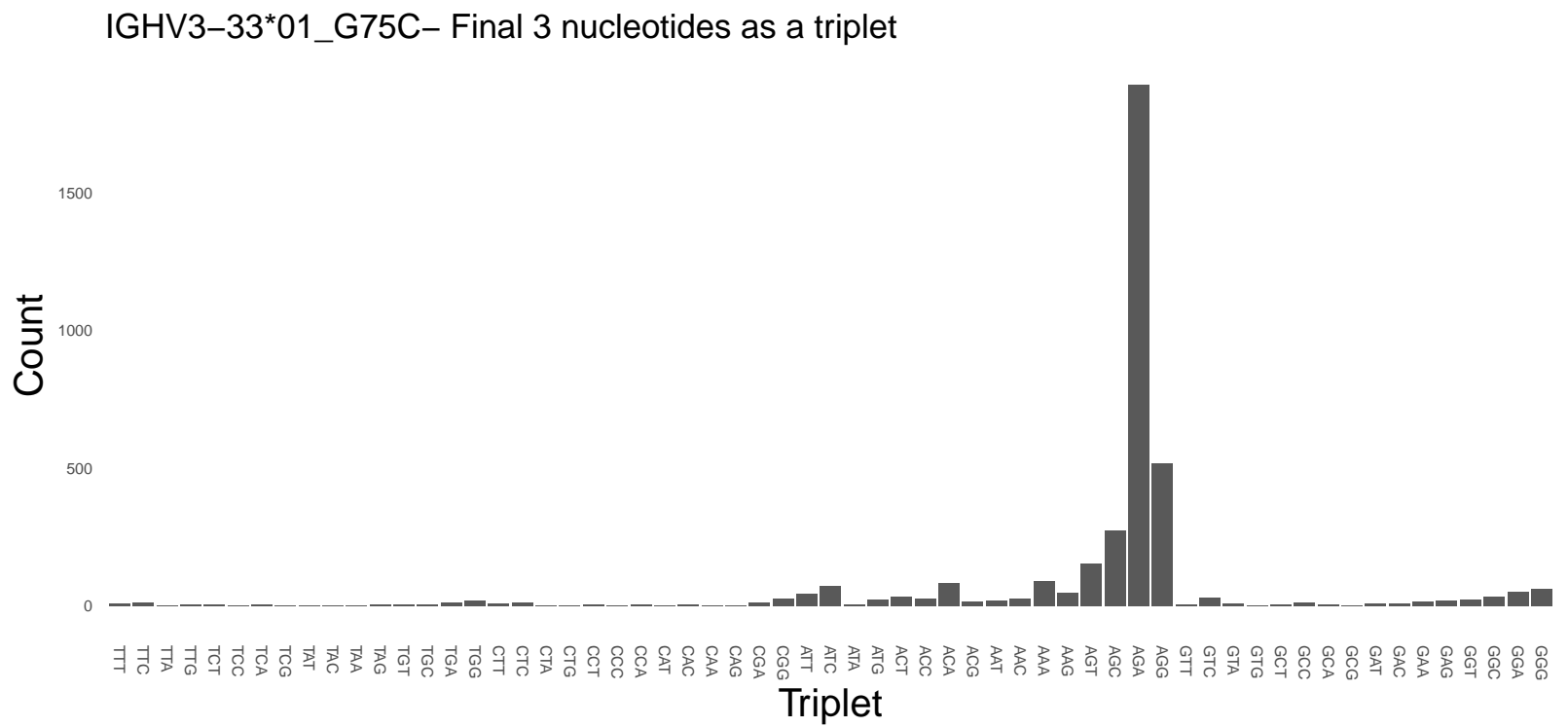
Gene IGHV3-33*01_G75C



Gene IGHV3-33*01_G75C

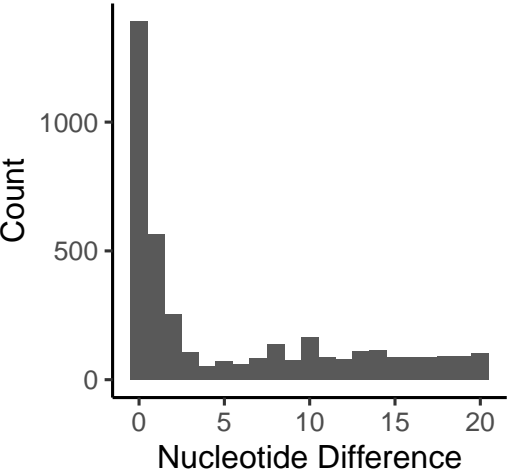


IGHV3-33*01_G75C- Final 3 nucleotides as a triplet



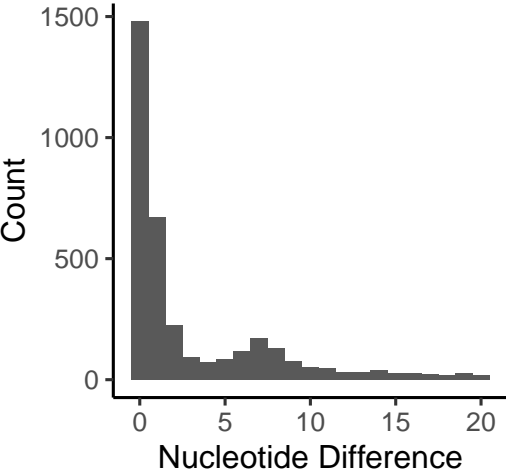
IGHV1-2*02

4488 sequences assigned
1391 (31%) exact matches, in which:
1327 unique CDR3
6 unique J



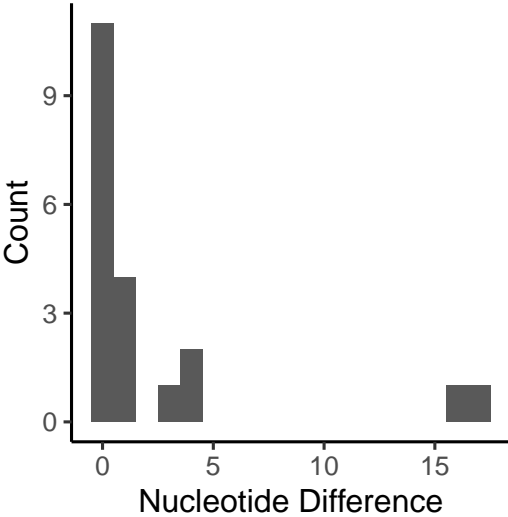
IGHV1-8*01

3601 sequences assigned
1480 (41.1%) exact matches, in which:
1413 unique CDR3
6 unique J



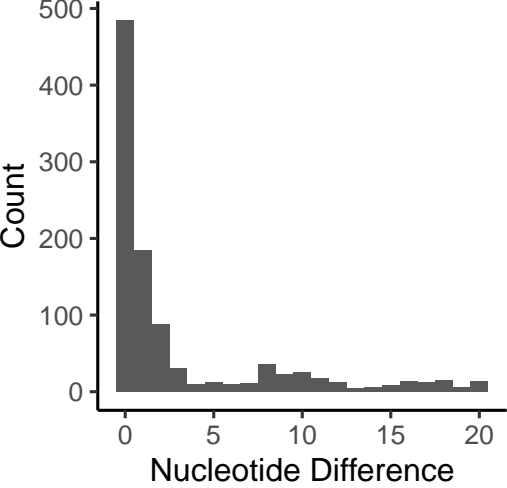
IGHV1-45*02

22 sequences assigned
11 (50%) exact matches, in which:
11 unique CDR3
4 unique J



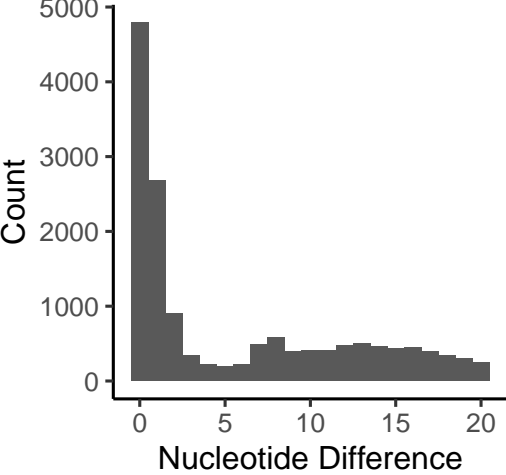
IGHV1-2*04

1059 sequences assigned
485 (45.8%) exact matches, in which:
461 unique CDR3
6 unique J



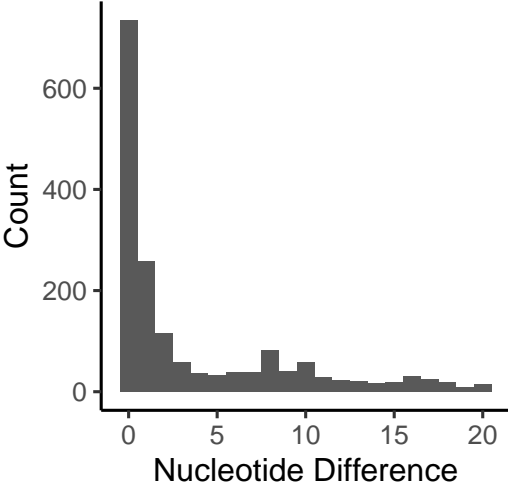
IGHV1-18*04

16371 sequences assigned
4790 (29.3%) exact matches, in which:
4388 unique CDR3
6 unique J



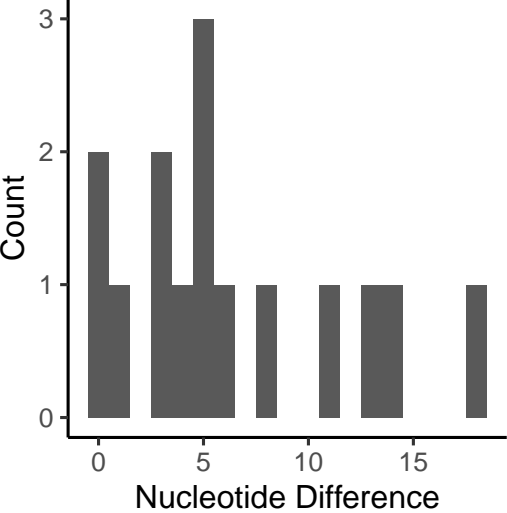
IGHV1-46*01

1790 sequences assigned
735 (41.1%) exact matches, in which:
710 unique CDR3
6 unique J



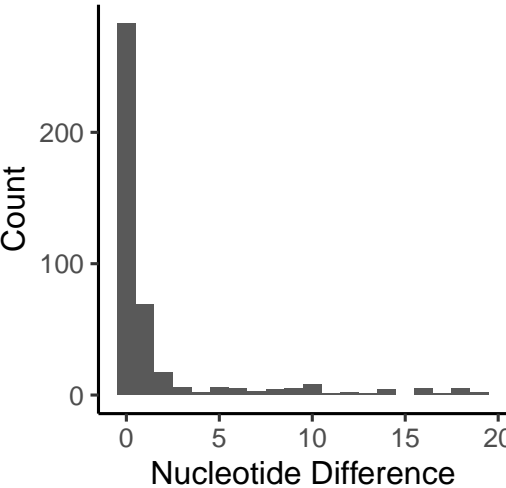
IGHV1-3*02

16 sequences assigned
2 (12.5%) exact matches, in which:
2 unique CDR3
1 unique J



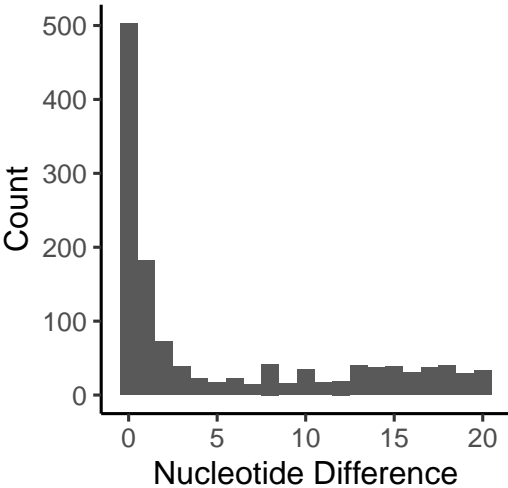
IGHV1-24*01

439 sequences assigned
283 (64.5%) exact matches, in which:
279 unique CDR3
6 unique J



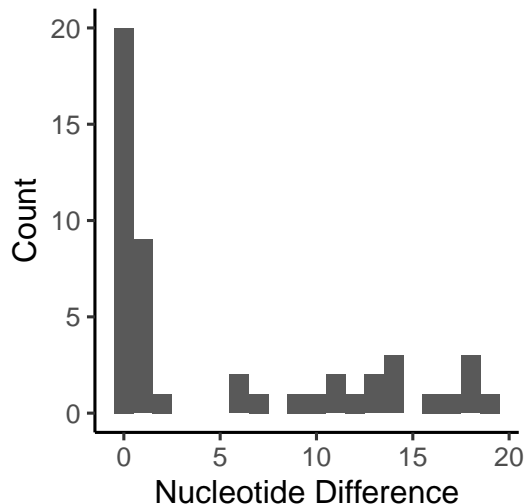
IGHV1-46*04

1827 sequences assigned
503 (27.5%) exact matches, in which:
482 unique CDR3
6 unique J



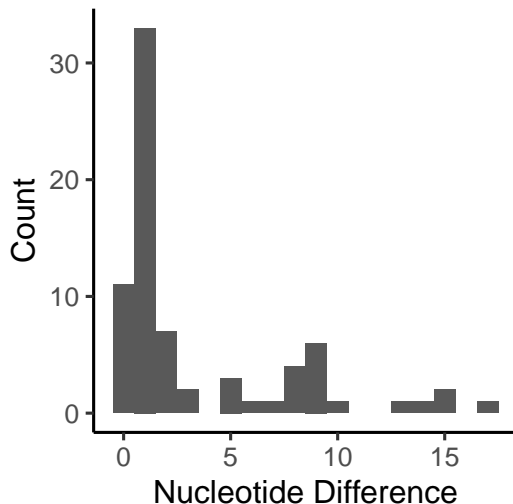
IGHV1-58*02

51 sequences assigned
20 (39.2%) exact matches, in which:
19 unique CDR3
4 unique J



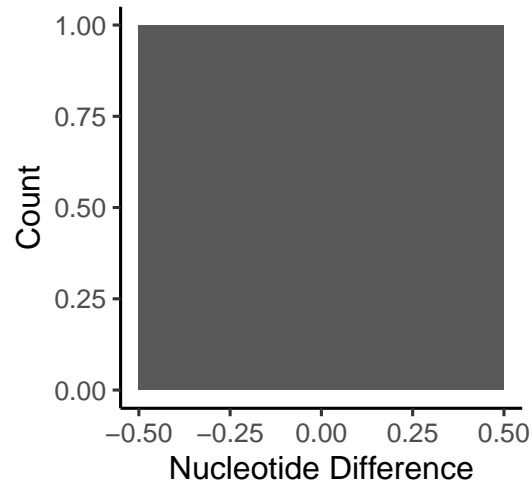
IGHV2-5*01

80 sequences assigned
11 (13.8%) exact matches, in which:
11 unique CDR3
6 unique J



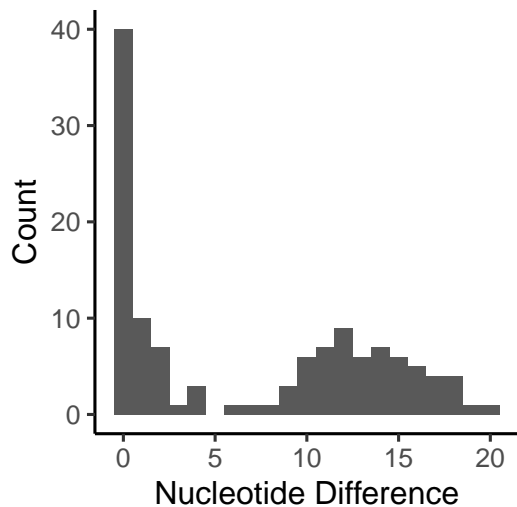
IGHV2-26*02

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



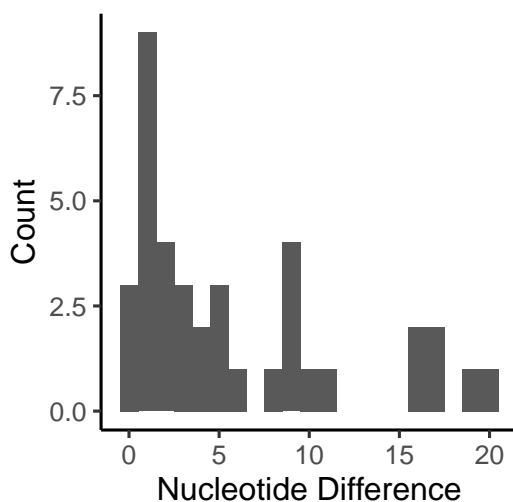
IGHV1-58*01_03

146 sequences assigned
40 (27.4%) exact matches, in which:
40 unique CDR3
5 unique J



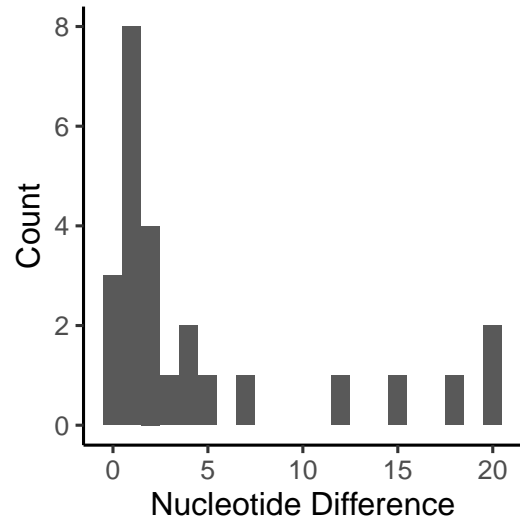
IGHV2-5*02

51 sequences assigned
3 (5.9%) exact matches, in which:
3 unique CDR3
3 unique J



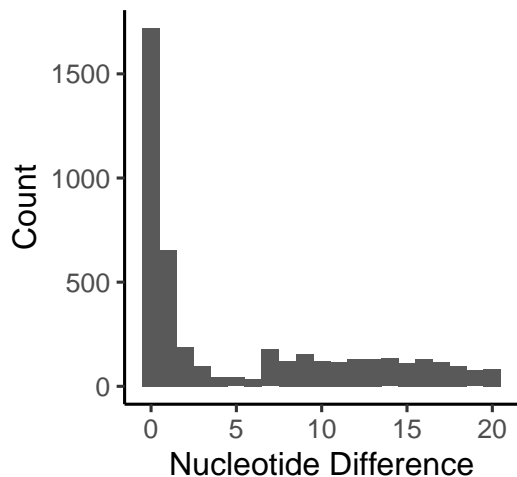
IGHV2-70*01

28 sequences assigned
3 (10.7%) exact matches, in which:
3 unique CDR3
1 unique J



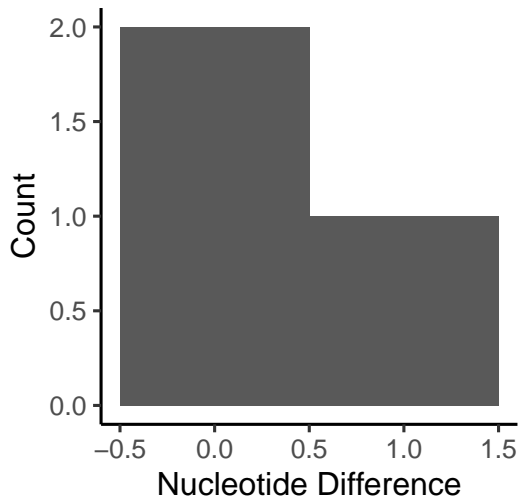
IGHV1-69*06_14

5014 sequences assigned
1720 (34.3%) exact matches, in which:
1655 unique CDR3
6 unique J



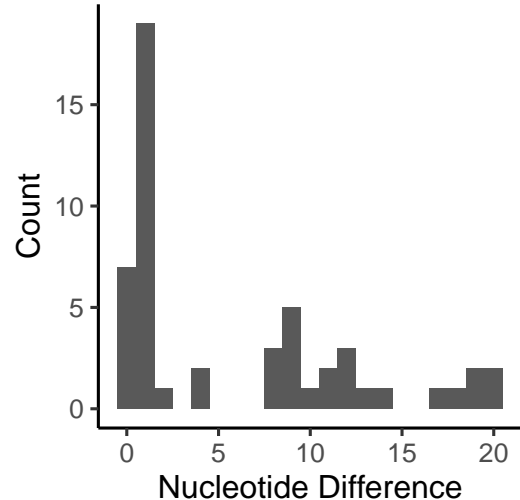
IGHV2-26*01

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



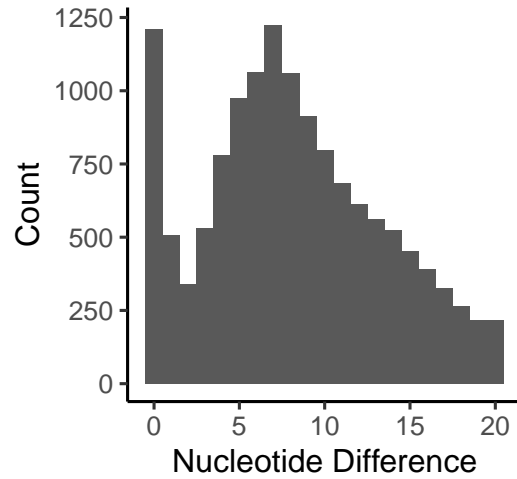
IGHV2-70*11_15

52 sequences assigned
7 (13.5%) exact matches, in which:
7 unique CDR3
3 unique J



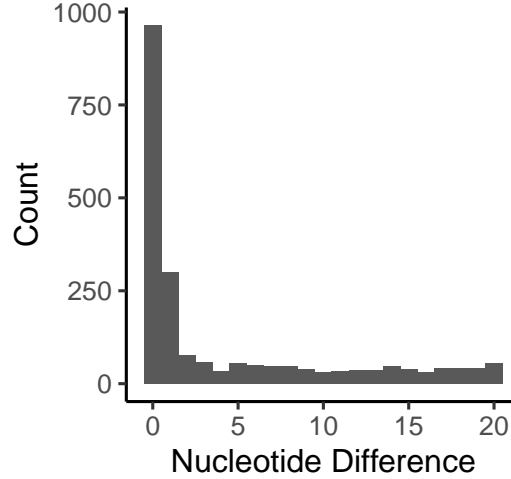
IGHV3-7*01

14249 sequences assigned
1209 (8.5%) exact matches, in which:
1167 unique CDR3
6 unique J



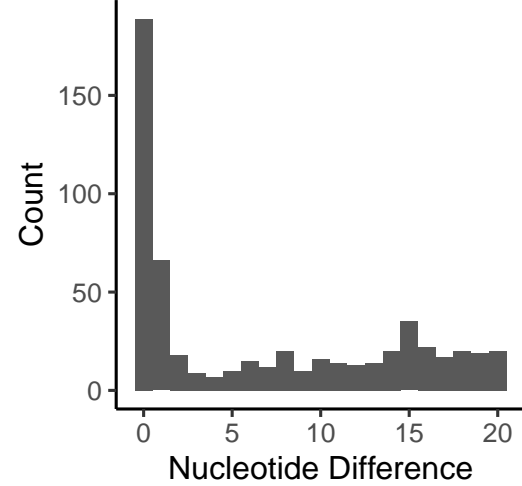
IGHV3-11*01

2434 sequences assigned
964 (39.6%) exact matches, in which:
930 unique CDR3
6 unique J



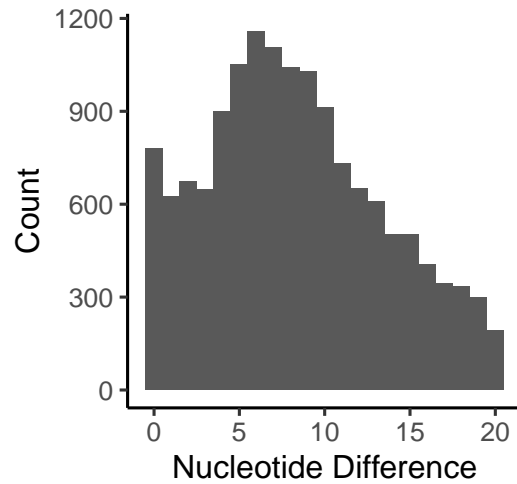
IGHV3-13*01

667 sequences assigned
189 (28.3%) exact matches, in which:
181 unique CDR3
5 unique J



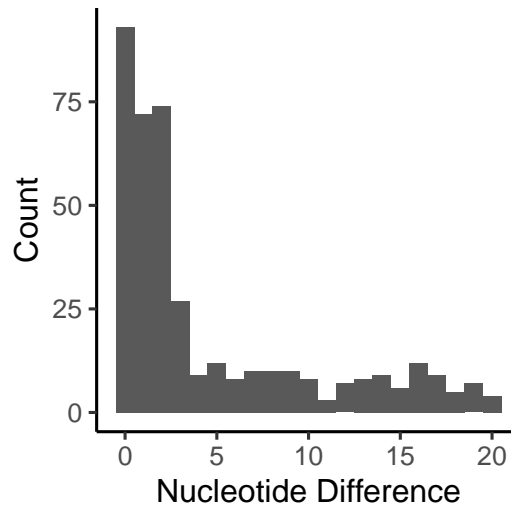
IGHV3-7*03

15180 sequences assigned
781 (5.1%) exact matches, in which:
762 unique CDR3
6 unique J



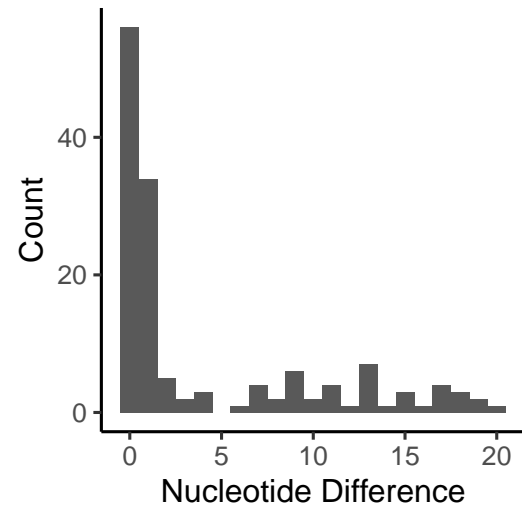
IGHV3-11*04

426 sequences assigned
93 (21.8%) exact matches, in which:
93 unique CDR3
6 unique J



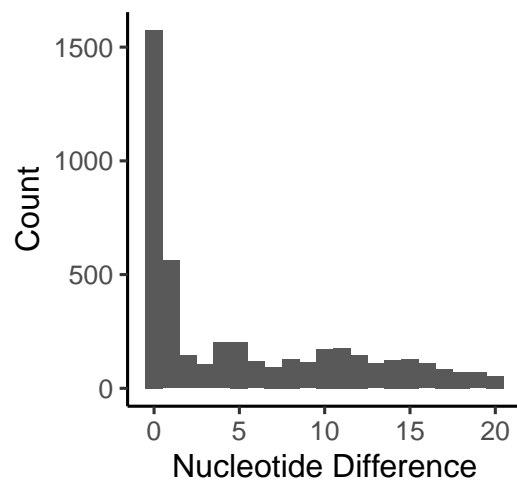
IGHV3-13*05

156 sequences assigned
56 (35.9%) exact matches, in which:
54 unique CDR3
4 unique J



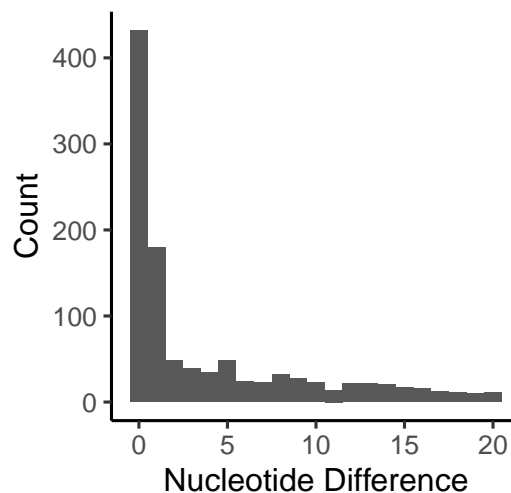
IGHV3-9*01

4876 sequences assigned
1575 (32.3%) exact matches, in which:
1506 unique CDR3
6 unique J



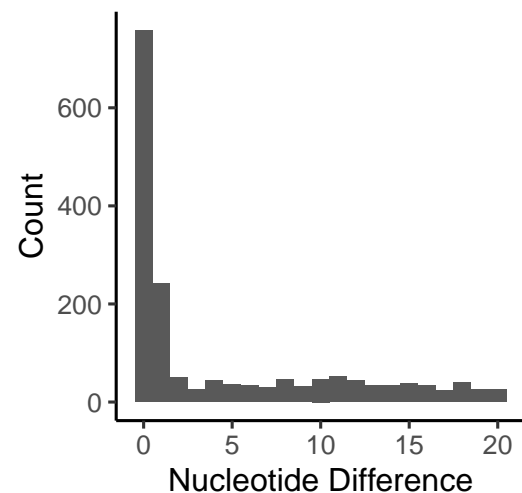
IGHV3-11*06

1161 sequences assigned
432 (37.2%) exact matches, in which:
410 unique CDR3
6 unique J



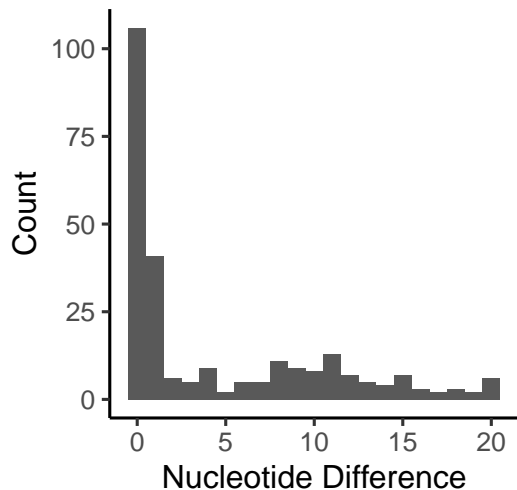
IGHV3-15*01_02

1895 sequences assigned
758 (40%) exact matches, in which:
743 unique CDR3
6 unique J



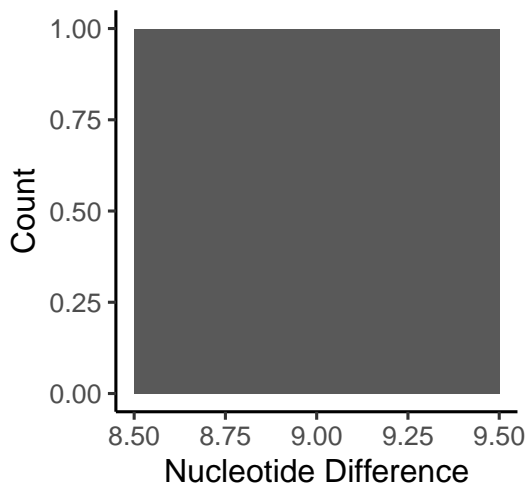
IGHV3-20*01_02

285 sequences assigned
106 (37.2%) exact matches, in which:
100 unique CDR3
6 unique J



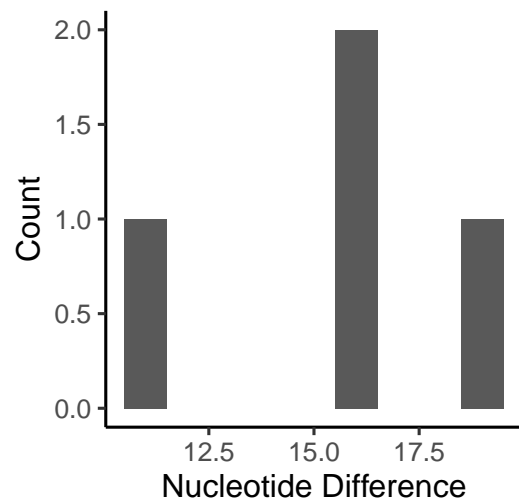
IGHV3-22*01_02

1 sequences assigned
No exact matches.



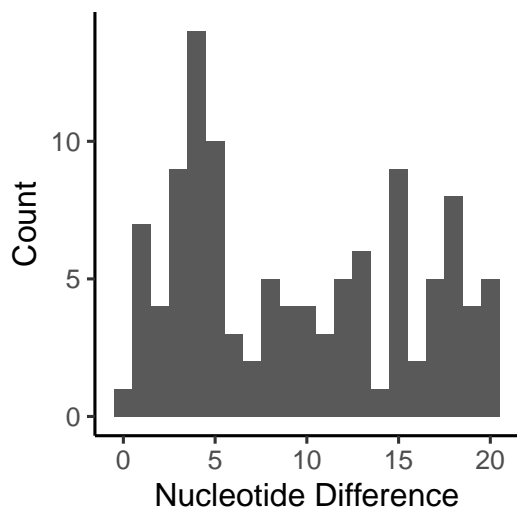
IGHV3-30*03

6 sequences assigned
No exact matches.



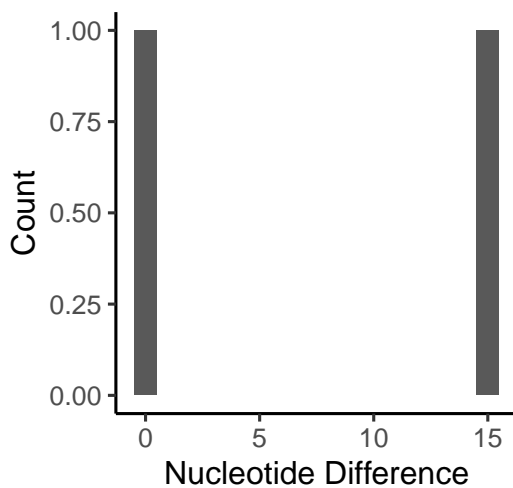
IGHV3-20*03_04

139 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



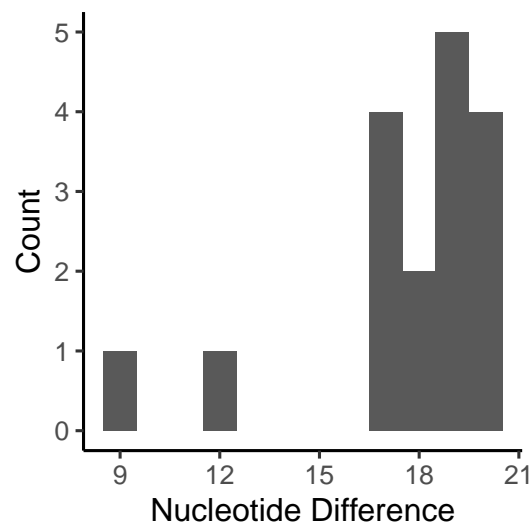
IGHV3-30-3*01

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



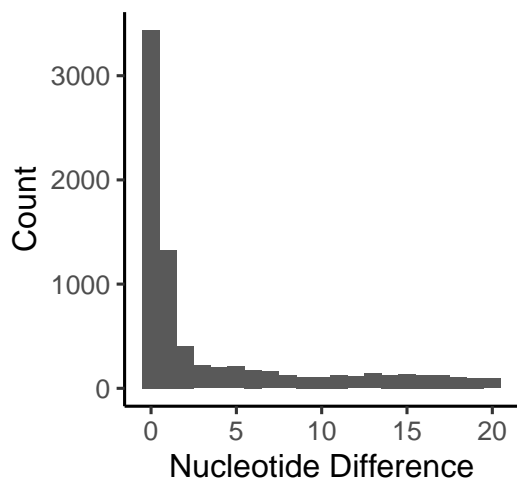
IGHV3-30*12

20 sequences assigned
No exact matches.



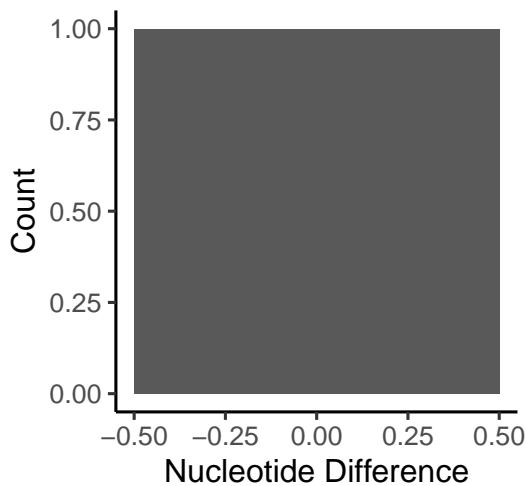
IGHV3-21*01_02

8393 sequences assigned
3438 (41%) exact matches, in which:
3267 unique CDR3
6 unique J



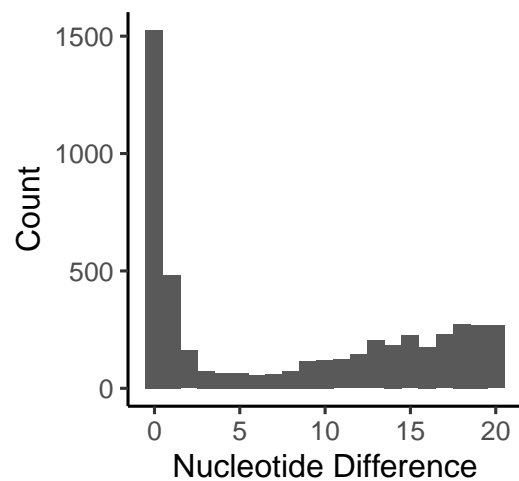
IGHV3-30-3*03

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



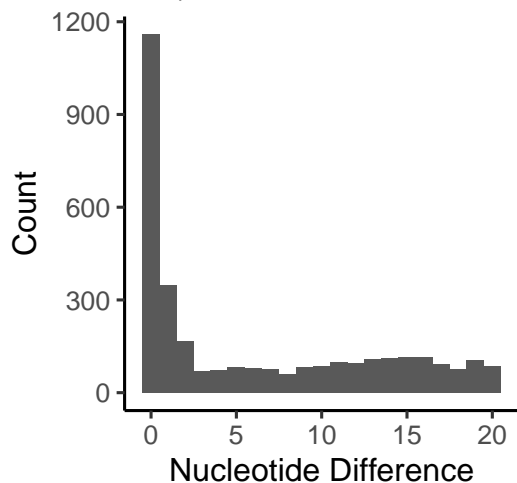
IGHV3-33*01

5841 sequences assigned
1526 (26.1%) exact matches, in which:
1471 unique CDR3
6 unique J



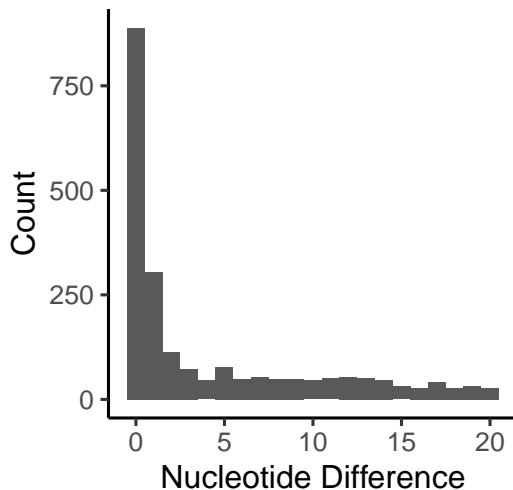
IGHV3-33*01_G75C

3801 sequences assigned
1159 (30.5%) exact matches, in which:
1127 unique CDR3
6 unique J



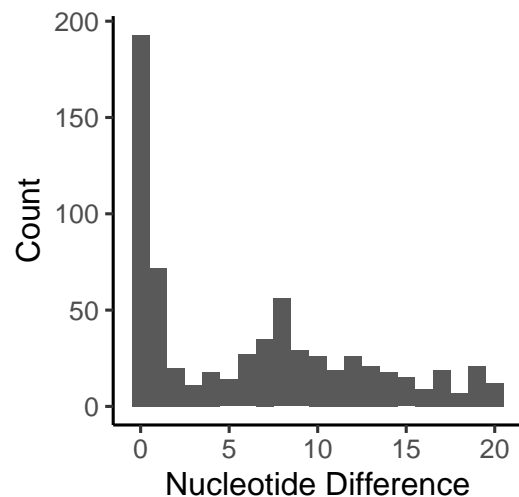
IGHV3-48*01

2341 sequences assigned
889 (38%) exact matches, in which:
852 unique CDR3
6 unique J



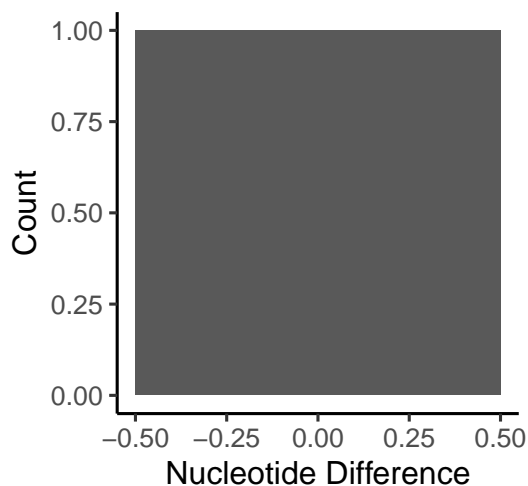
IGHV3-49*03_05

699 sequences assigned
193 (27.6%) exact matches, in which:
186 unique CDR3
5 unique J



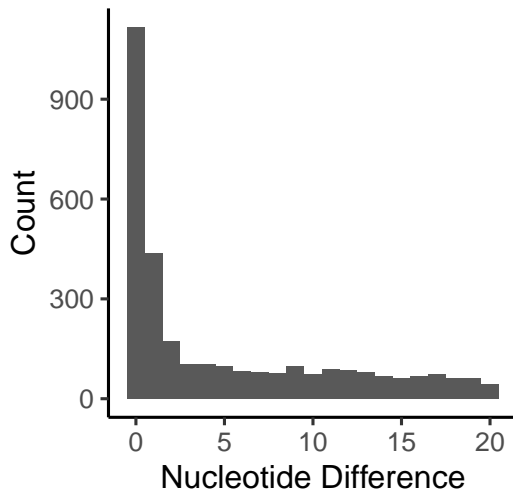
IGHV3-35*01

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



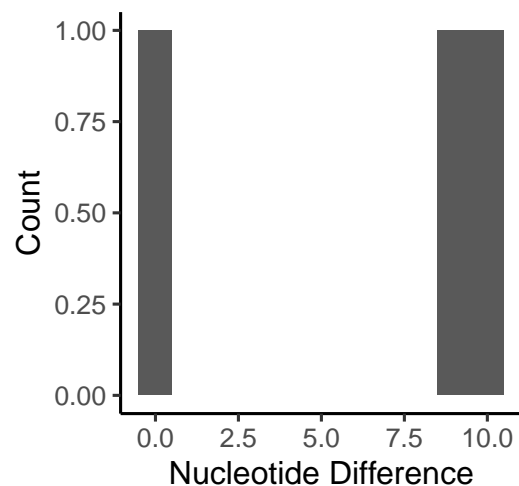
IGHV3-48*04

3428 sequences assigned
1117 (32.6%) exact matches, in which:
1065 unique CDR3
6 unique J



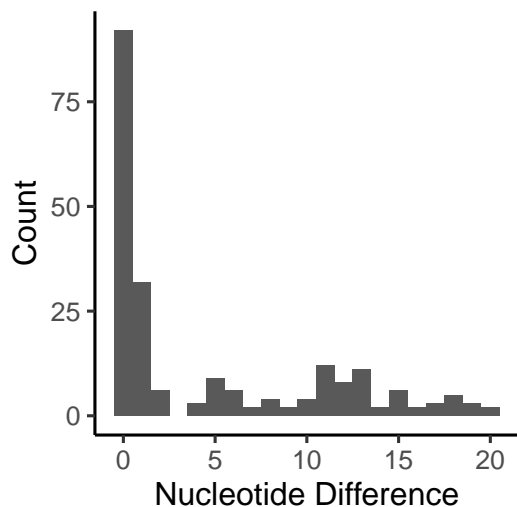
IGHV3-52*01_03

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



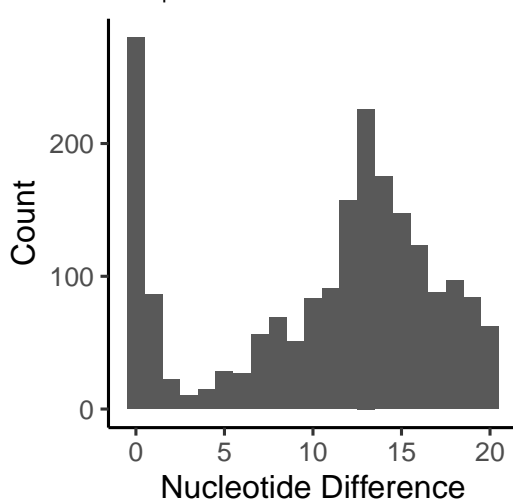
IGHV3-43*01

261 sequences assigned
92 (35.2%) exact matches, in which:
92 unique CDR3
5 unique J



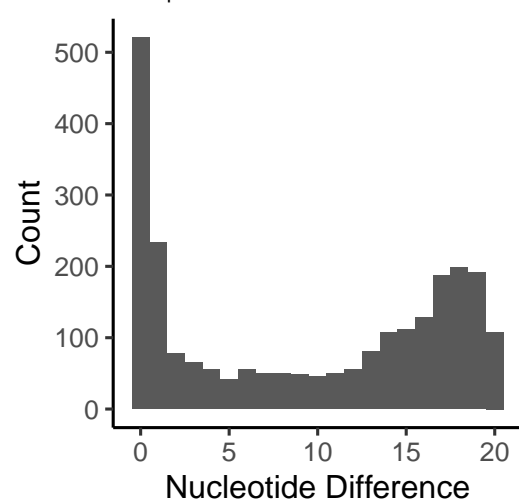
IGHV3-49*04

2260 sequences assigned
280 (12.4%) exact matches, in which:
264 unique CDR3
6 unique J



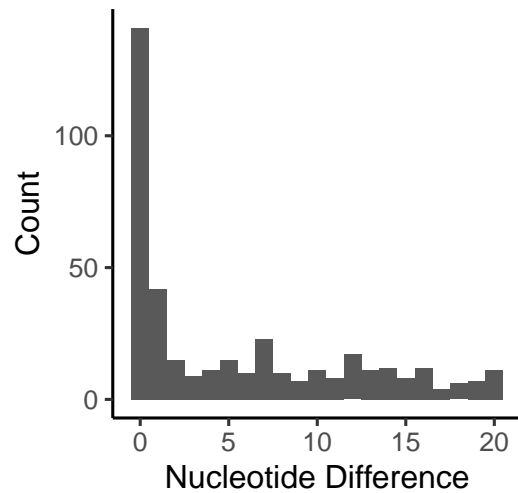
IGHV3-53*01_02

2828 sequences assigned
521 (18.4%) exact matches, in which:
500 unique CDR3
6 unique J



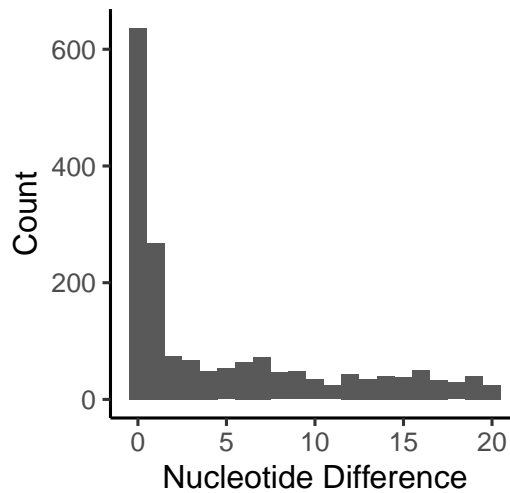
IGHV3-64*01

509 sequences assigned
141 (27.7%) exact matches, in which:
135 unique CDR3
6 unique J



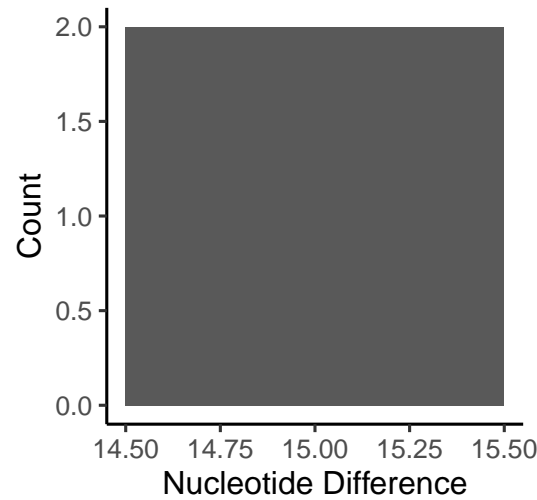
IGHV3-66*01

1952 sequences assigned
637 (32.6%) exact matches, in which:
610 unique CDR3
6 unique J



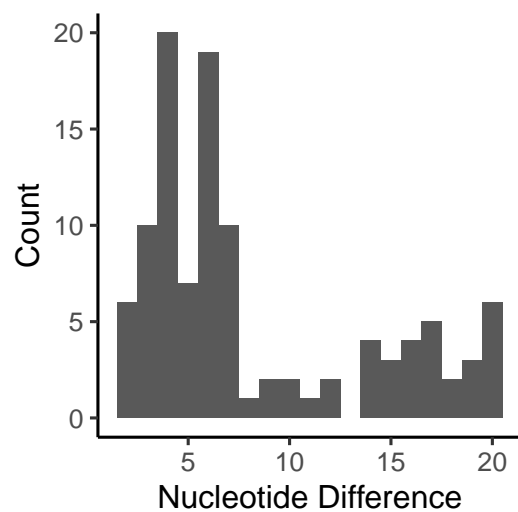
IGHV3-71*01_04

6 sequences assigned
No exact matches.



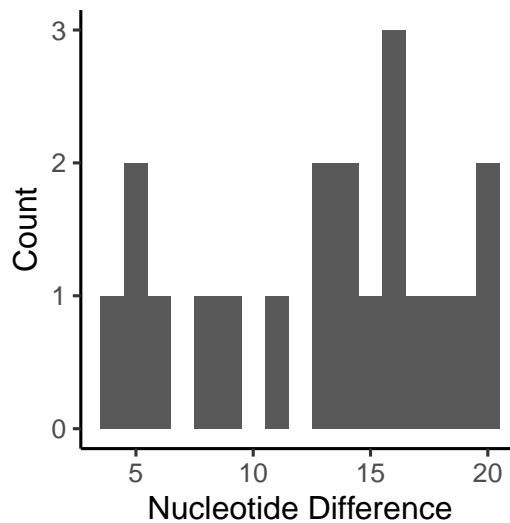
IGHV3-64*04

124 sequences assigned
No exact matches.



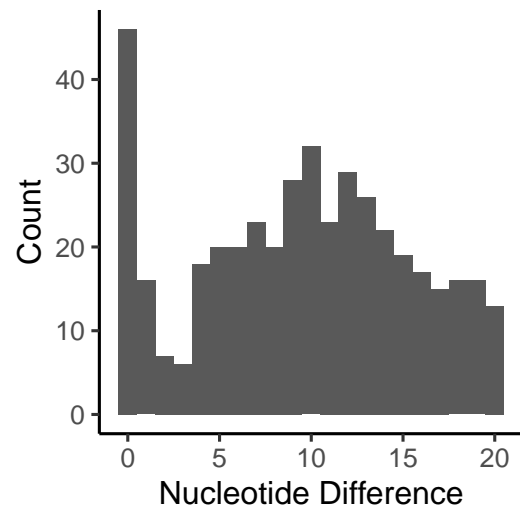
IGHV3-69-1*01

39 sequences assigned
No exact matches.



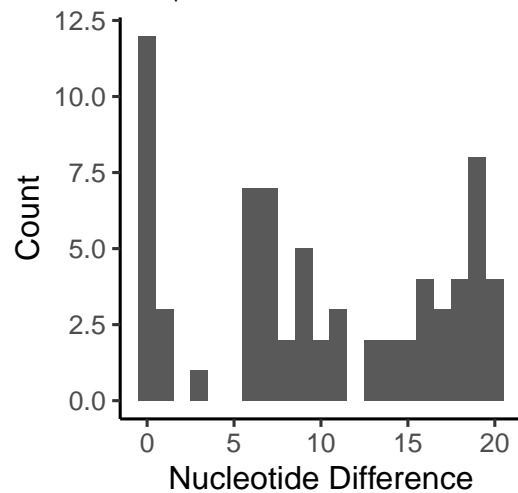
IGHV3-72*01

505 sequences assigned
46 (9.1%) exact matches, in which:
46 unique CDR3
5 unique J



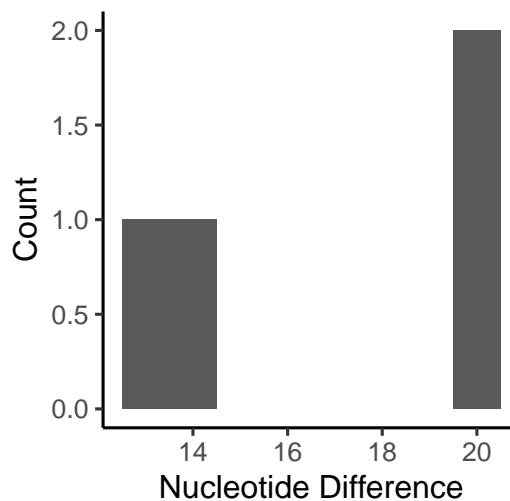
IGHV3-64*02_07

138 sequences assigned
12 (8.7%) exact matches, in which:
12 unique CDR3
3 unique J



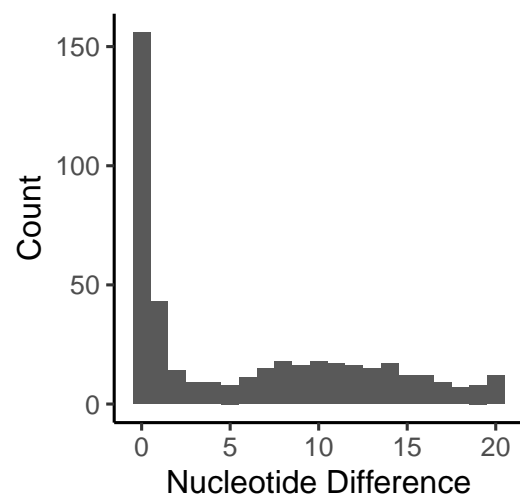
IGHV3-69-1*02

10 sequences assigned
No exact matches.



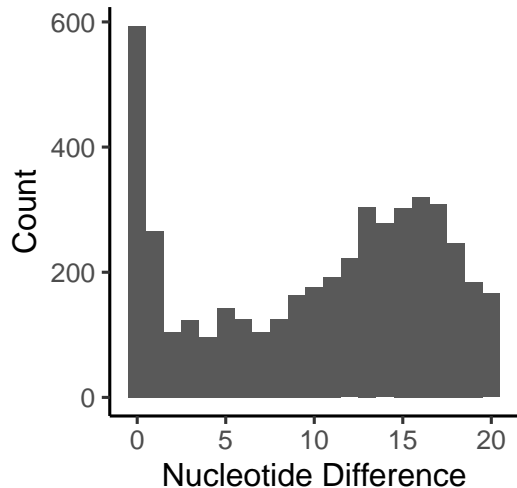
IGHV3-73*01_02

477 sequences assigned
156 (32.7%) exact matches, in which:
151 unique CDR3
6 unique J



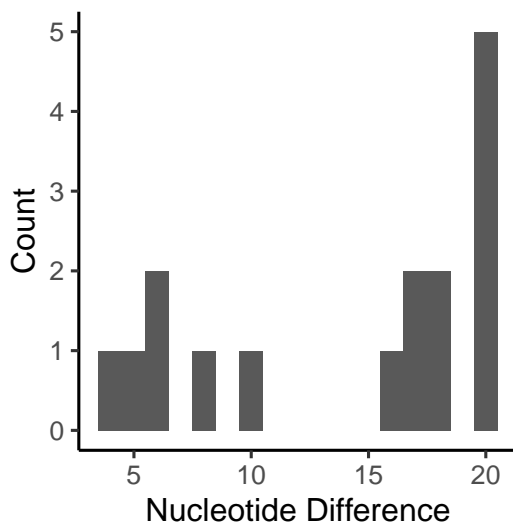
IGHV3-74*01_02

5565 sequences assigned
594 (10.7%) exact matches, in which:
577 unique CDR3
6 unique J



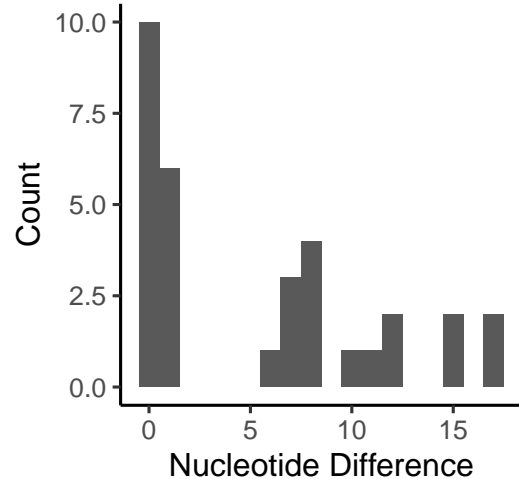
IGHV3-NL1*01

30 sequences assigned
No exact matches.



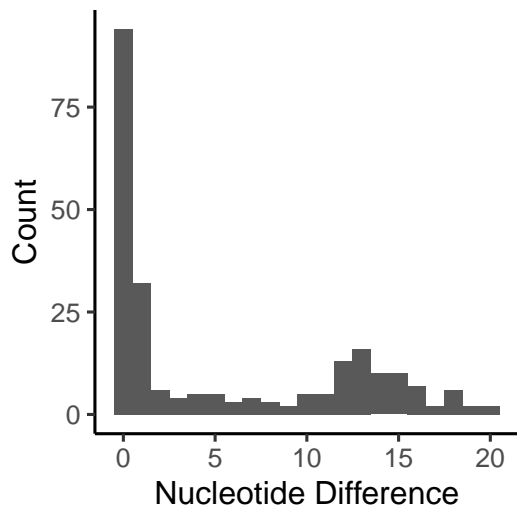
IGHV4-28*01_07

50 sequences assigned
10 (20%) exact matches, in which:
9 unique CDR3
3 unique J



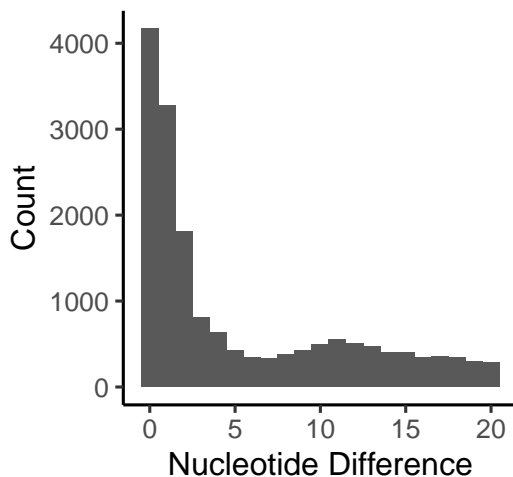
IGHV3-43D*04

255 sequences assigned
94 (36.9%) exact matches, in which:
90 unique CDR3
5 unique J



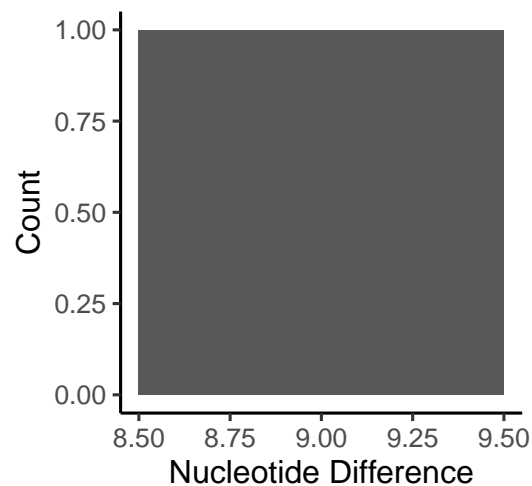
IGHV4-4*07

18629 sequences assigned
4169 (22.4%) exact matches, in which:
3587 unique CDR3
6 unique J



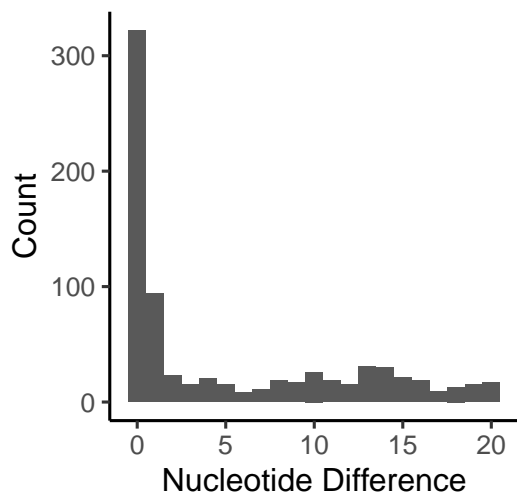
IGHV4-30-4*01

3 sequences assigned
No exact matches.



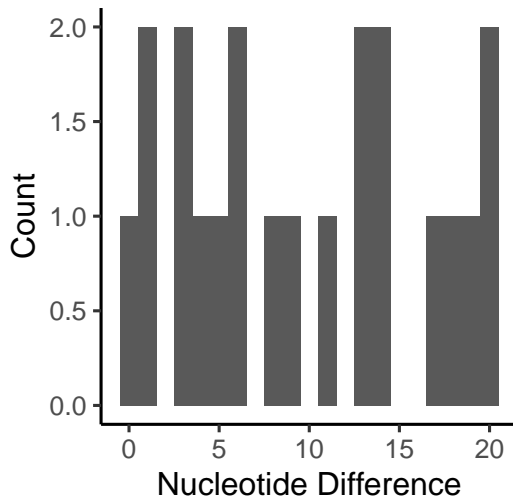
IGHV3-64D*06

850 sequences assigned
322 (37.9%) exact matches, in which:
303 unique CDR3
6 unique J



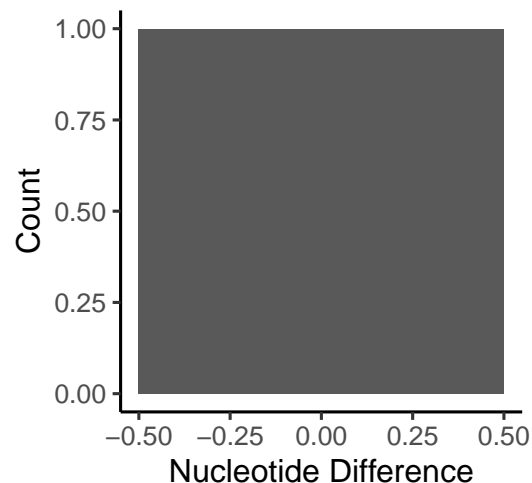
IGHV4-28*03

27 sequences assigned
1 (3.7%) exact matches, in which:
1 unique CDR3
1 unique J



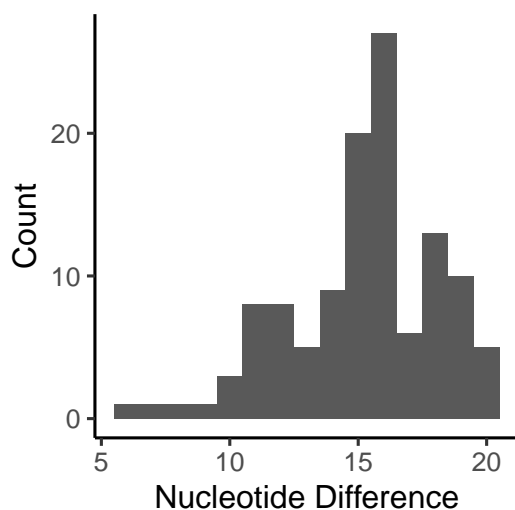
IGHV4-30-2*01

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



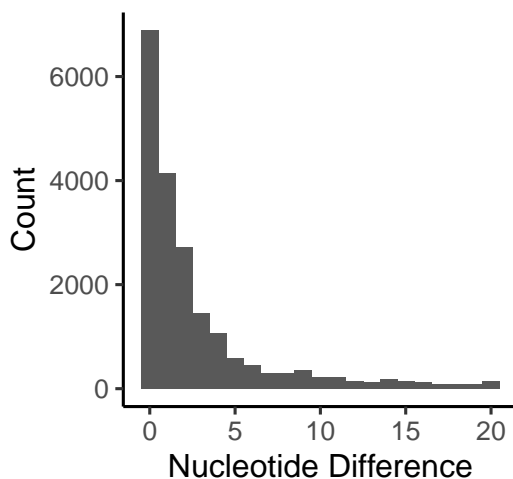
IGHV4-30-2*03

133 sequences assigned
No exact matches.



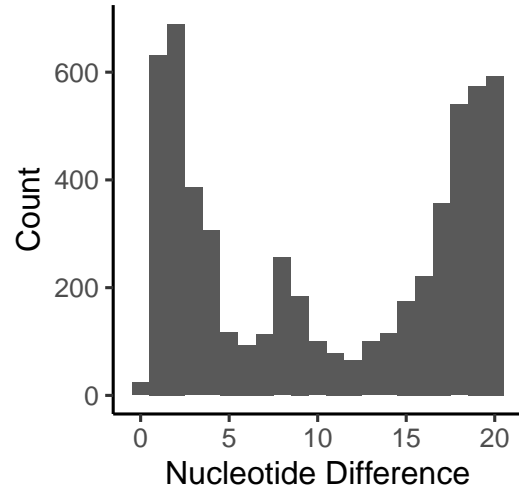
IGHV4-34*01_02

20602 sequences assigned
6887 (33.4%) exact matches, in which:
6087 unique CDR3
6 unique J



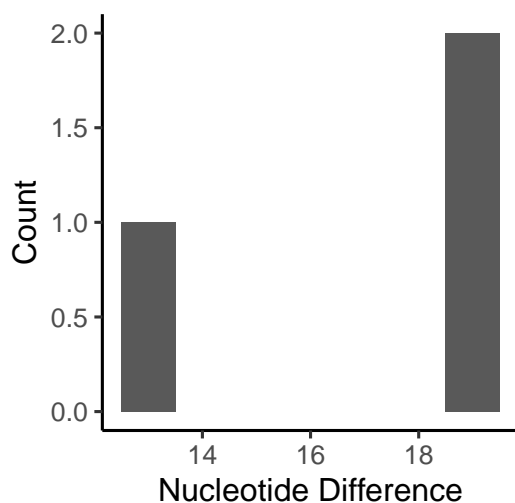
IGHV4-39*07

7390 sequences assigned
24 (0.3%) exact matches, in which:
24 unique CDR3
3 unique J



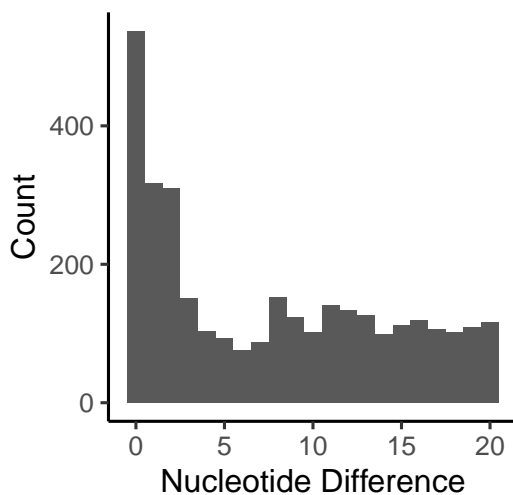
IGHV4-30-2*06

3 sequences assigned
No exact matches.



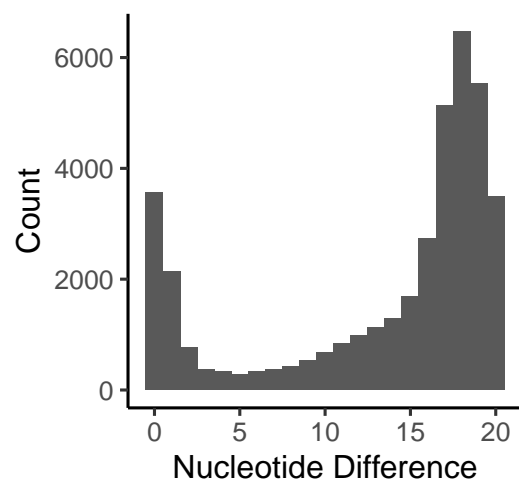
IGHV4-38-2*01

4047 sequences assigned
537 (13.3%) exact matches, in which:
516 unique CDR3
6 unique J



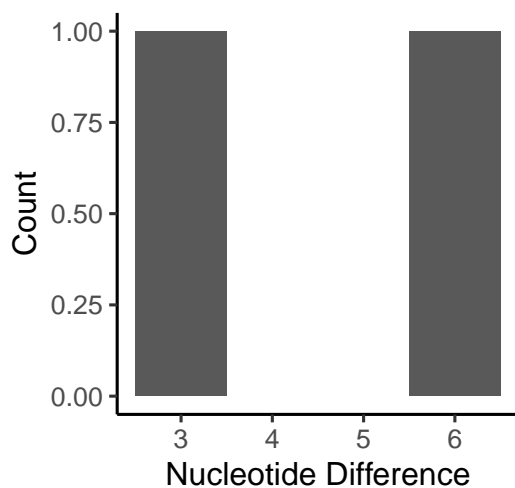
IGHV4-39*01_05

44772 sequences assigned
3561 (8%) exact matches, in which:
3102 unique CDR3
6 unique J



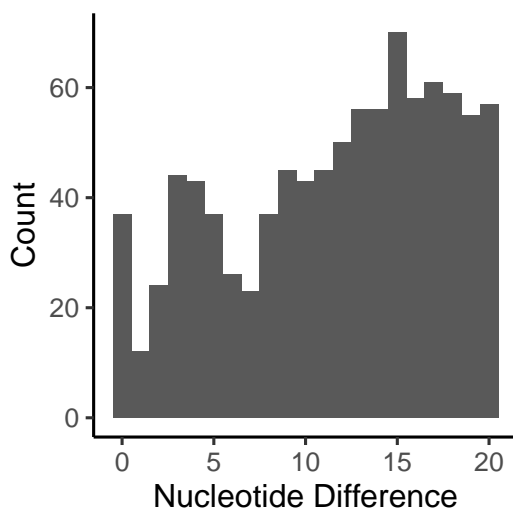
IGHV4-31*03_04

2 sequences assigned
No exact matches.



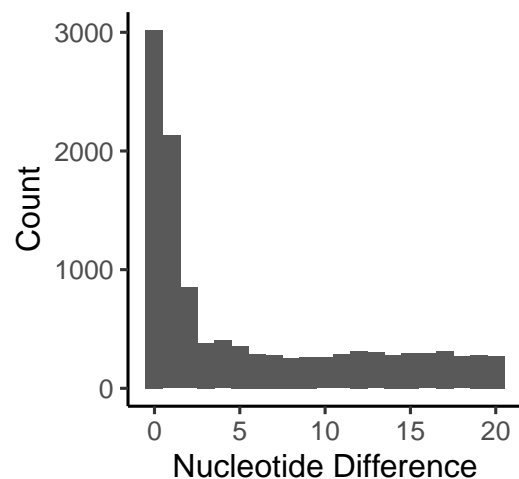
IGHV4-38-2*02

1536 sequences assigned
37 (2.4%) exact matches, in which:
36 unique CDR3
5 unique J



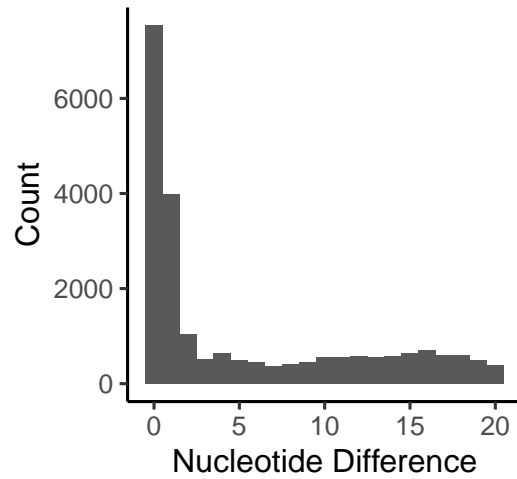
IGHV4-59*08

13223 sequences assigned
3019 (22.8%) exact matches, in which:
2599 unique CDR3
6 unique J



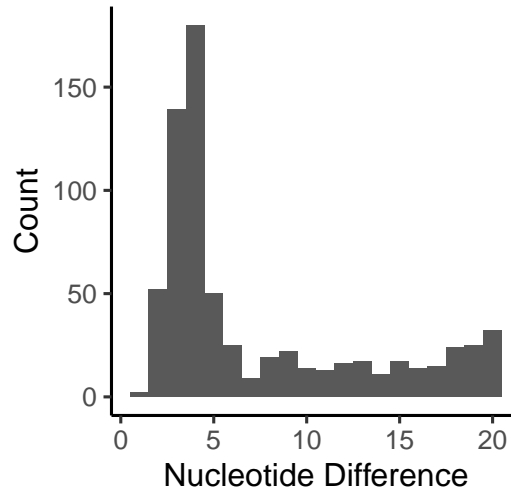
IGHV4-59*01_07

24142 sequences assigned
7535 (31.2%) exact matches, in which:
6424 unique CDR3
6 unique J



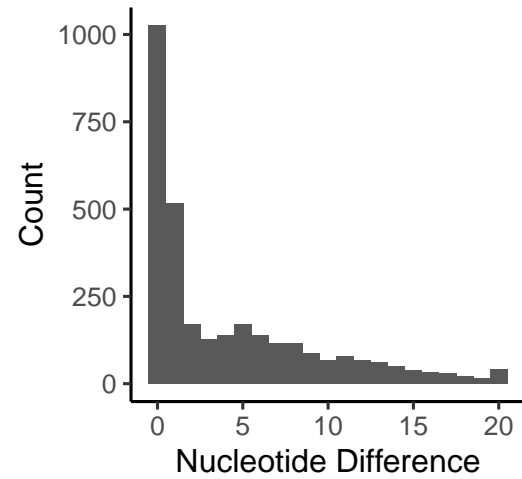
IGHV4-61*05

854 sequences assigned
No exact matches.



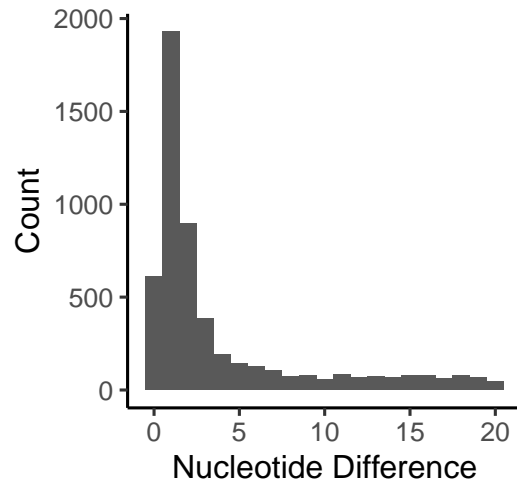
IGHV6-1*01_02

3206 sequences assigned
1026 (32%) exact matches, in which:
928 unique CDR3
6 unique J



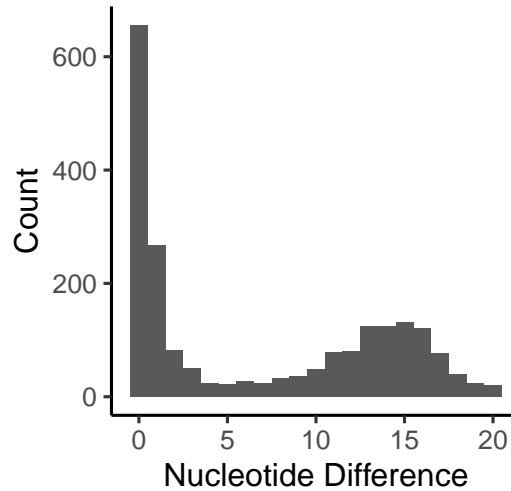
IGHV4-59*12

5703 sequences assigned
611 (10.7%) exact matches, in which:
599 unique CDR3
6 unique J



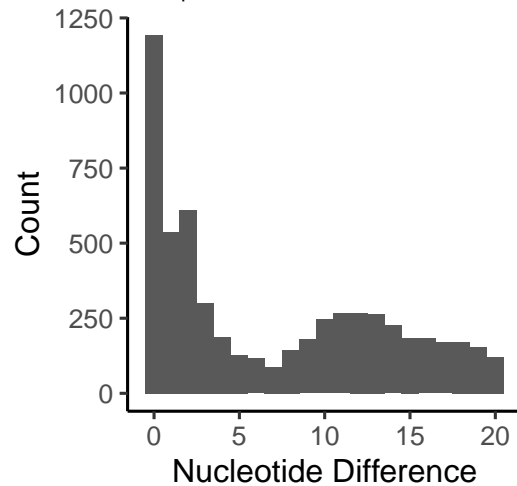
IGHV5-10-1*01_03

2165 sequences assigned
656 (30.3%) exact matches, in which:
637 unique CDR3
6 unique J



IGHV4-61*01

6347 sequences assigned
1193 (18.8%) exact matches, in which:
1108 unique CDR3
6 unique J



IGHV5-51*01_03

8144 sequences assigned
2891 (35.5%) exact matches, in which:
2731 unique CDR3
6 unique J

