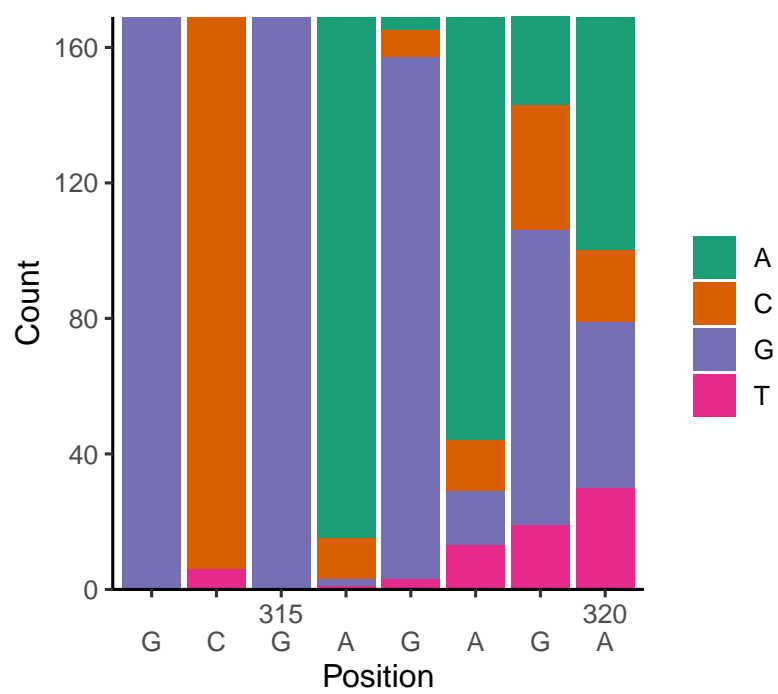
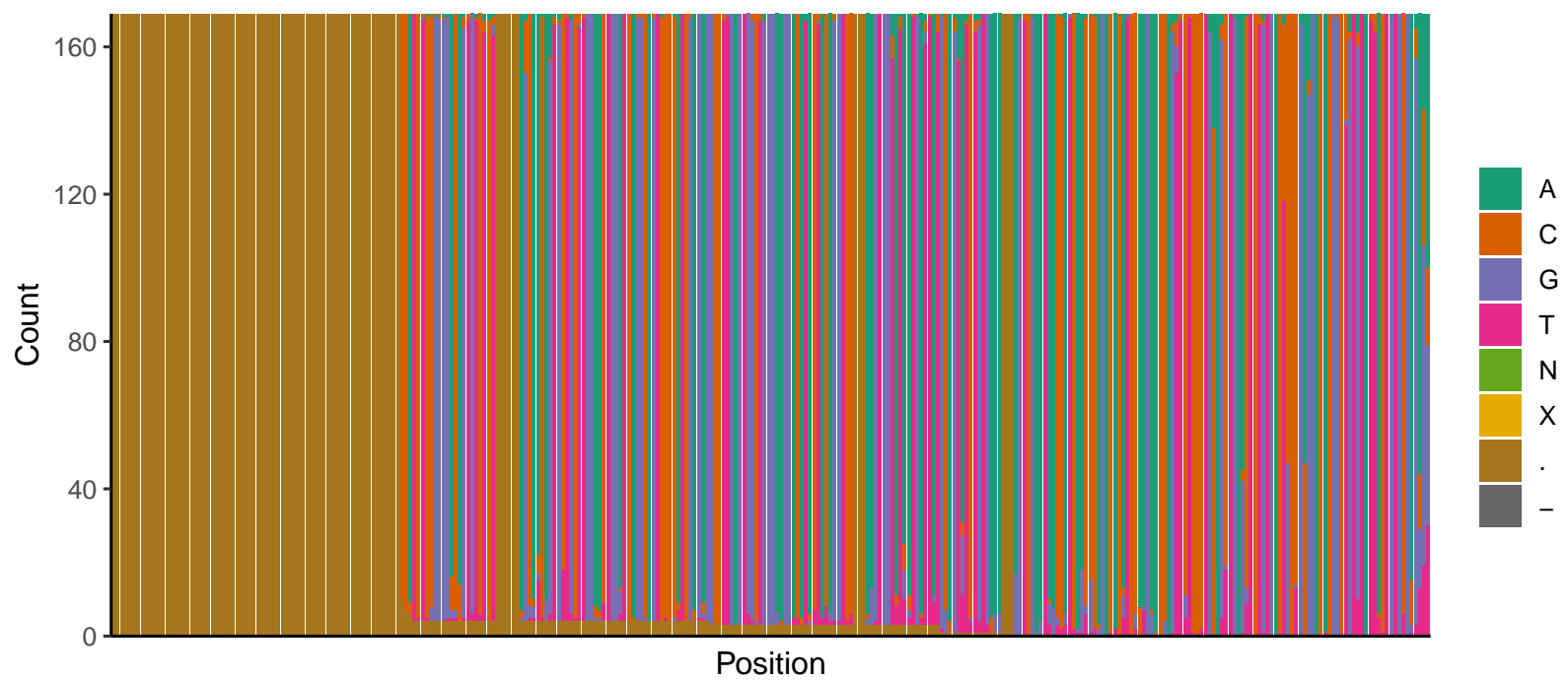


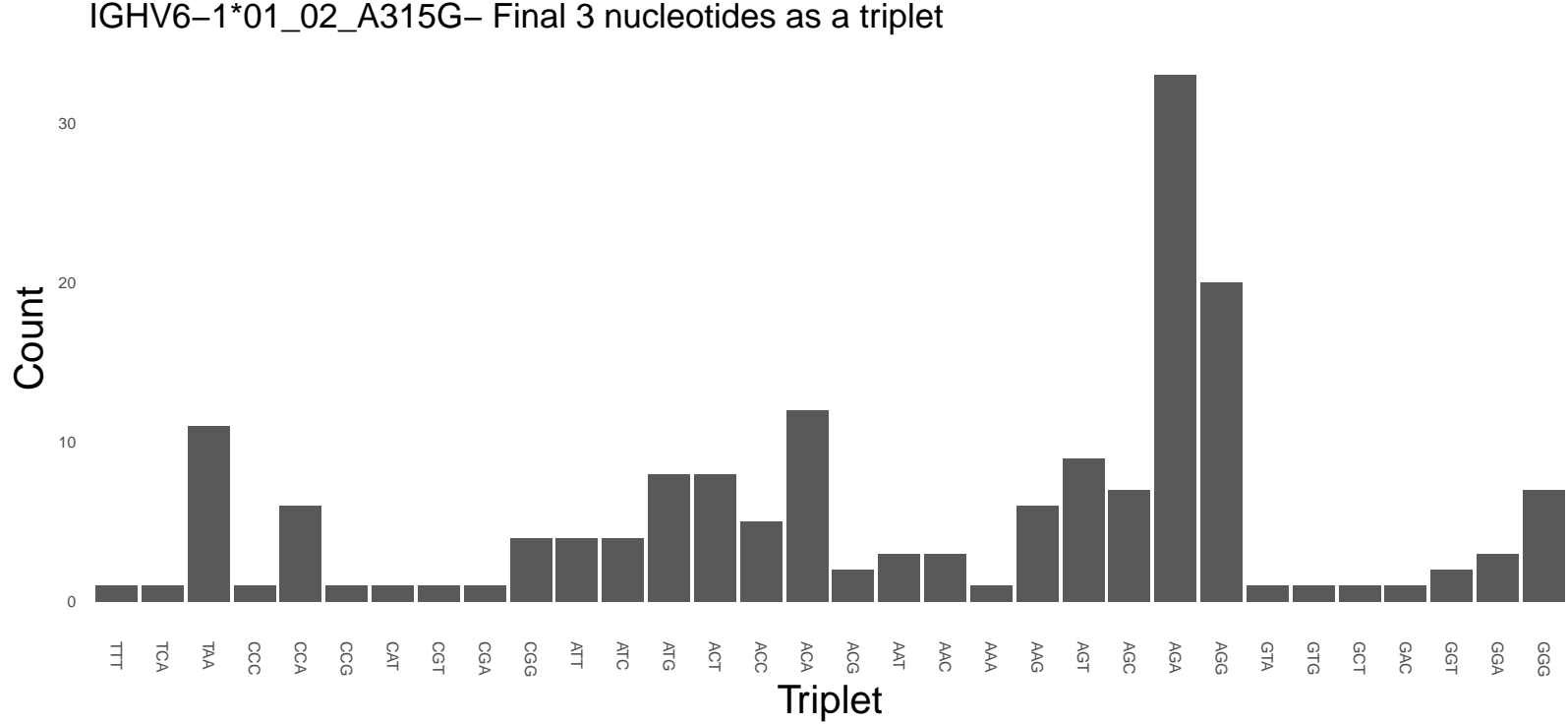
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

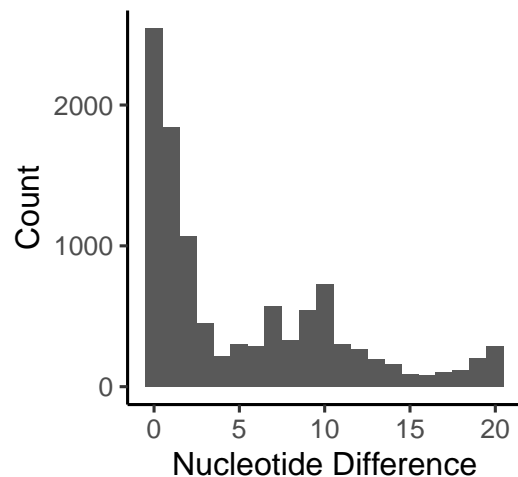


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



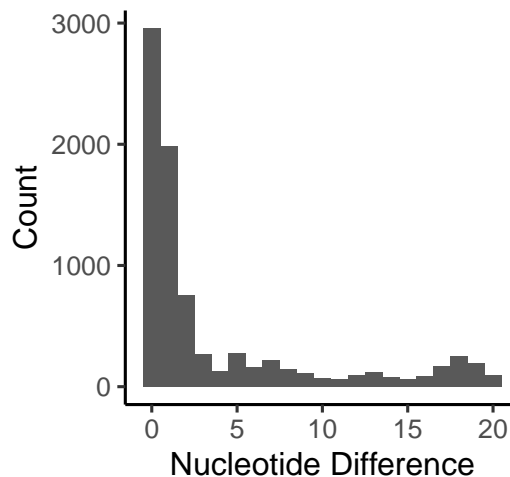
IGHV1-2*02

12146 sequences assigned
2544 (20.9%) exact matches, in which:
2296 unique CDR3
6 unique J



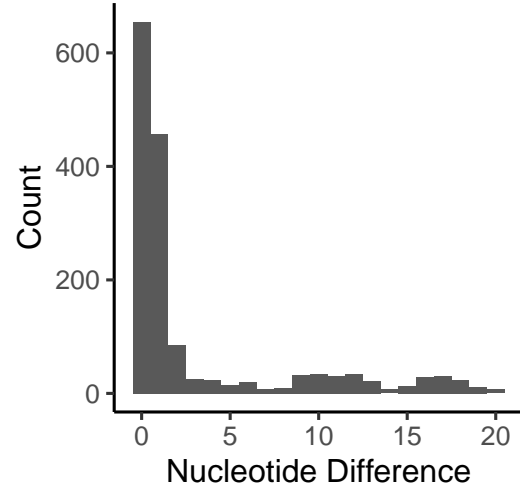
IGHV1-8*01

8920 sequences assigned
2956 (33.1%) exact matches, in which:
2650 unique CDR3
6 unique J



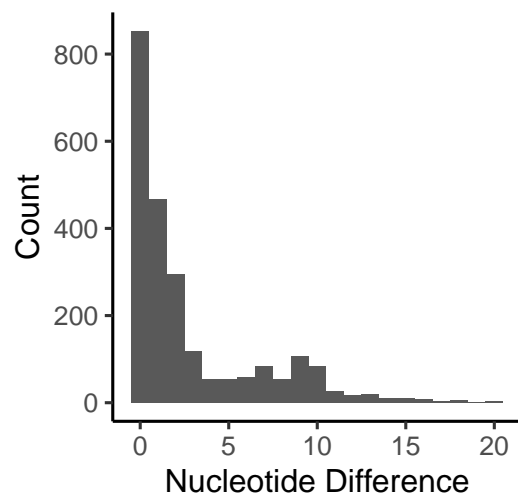
IGHV1-24*01

1839 sequences assigned
655 (35.6%) exact matches, in which:
556 unique CDR3
6 unique J



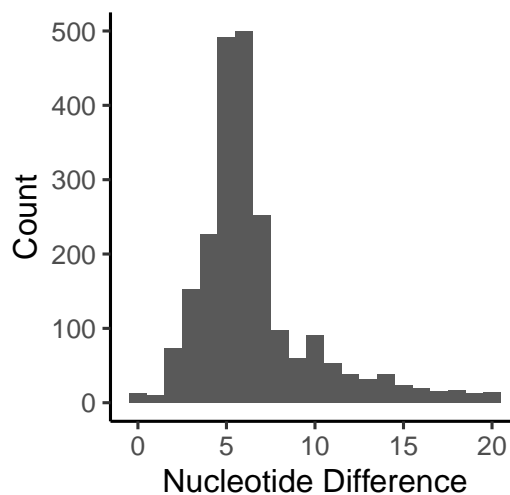
IGHV1-2*04

2345 sequences assigned
853 (36.4%) exact matches, in which:
794 unique CDR3
6 unique J



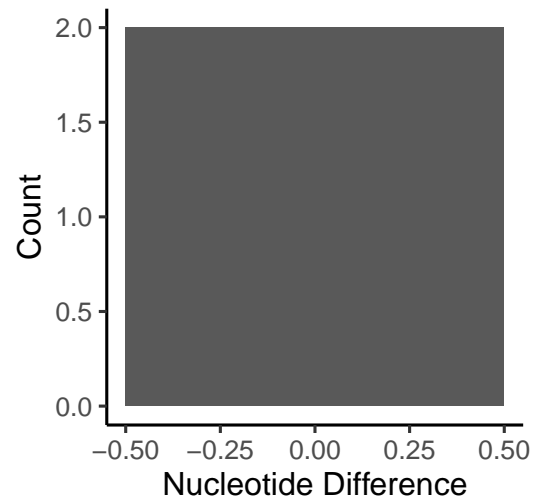
IGHV1-8*02

2425 sequences assigned
13 (0.5%) exact matches, in which:
13 unique CDR3
4 unique J



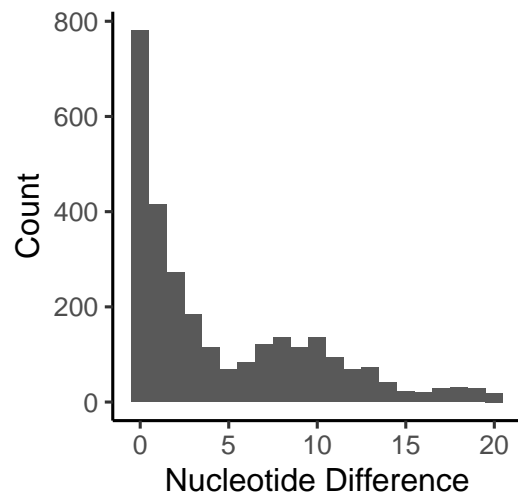
IGHV1-38-4*01

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



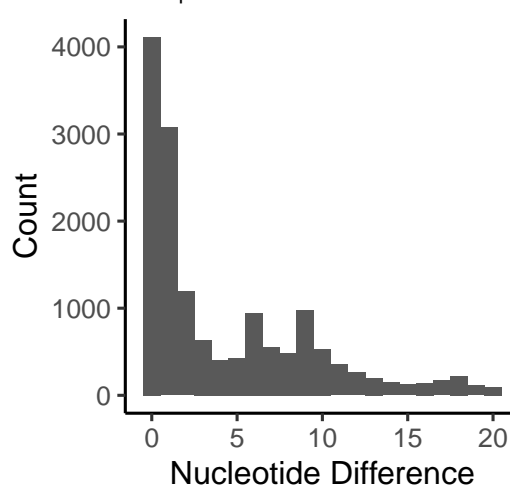
IGHV1-3*01_05

3445 sequences assigned
781 (22.7%) exact matches, in which:
709 unique CDR3
6 unique J



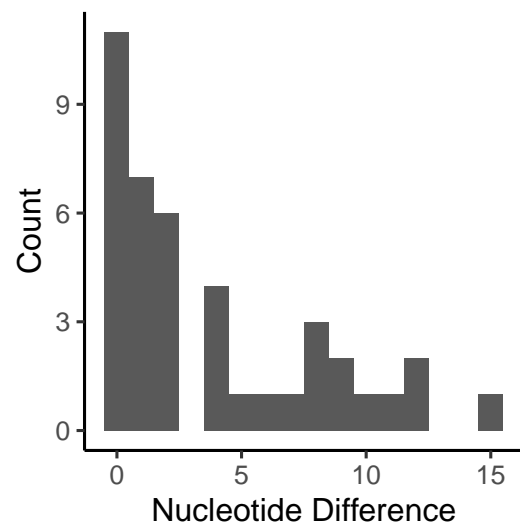
IGHV1-18*01

17023 sequences assigned
4113 (24.2%) exact matches, in which:
3624 unique CDR3
6 unique J



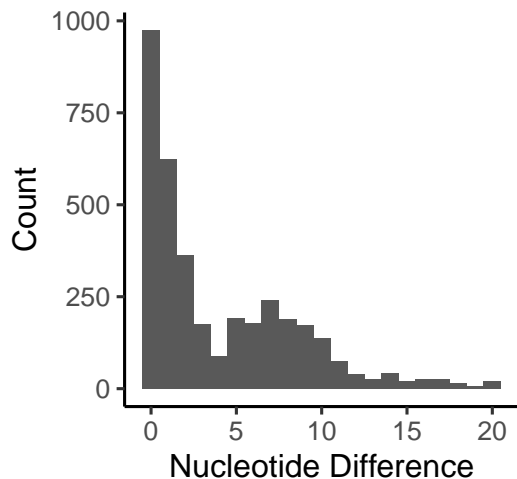
IGHV1-45*02

43 sequences assigned
11 (25.6%) exact matches, in which:
11 unique CDR3
4 unique J



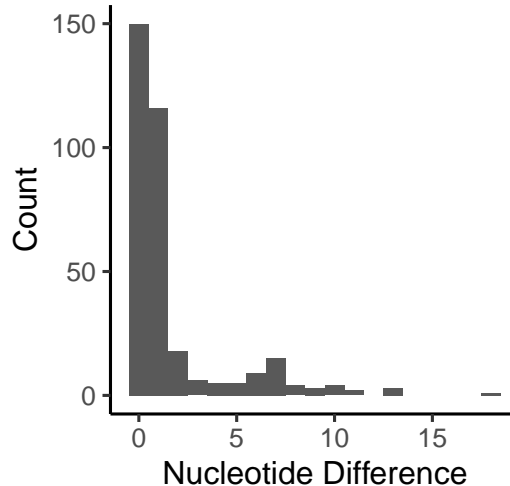
IGHV1-46*01

3915 sequences assigned
974 (24.9%) exact matches, in which:
905 unique CDR3
6 unique J



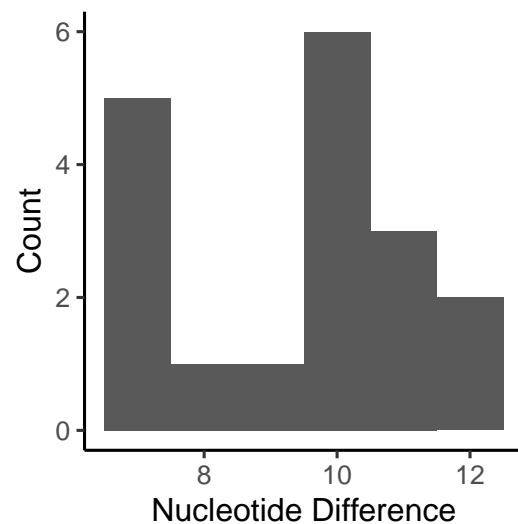
IGHV1-58*01_03

388 sequences assigned
150 (38.7%) exact matches, in which:
132 unique CDR3
6 unique J



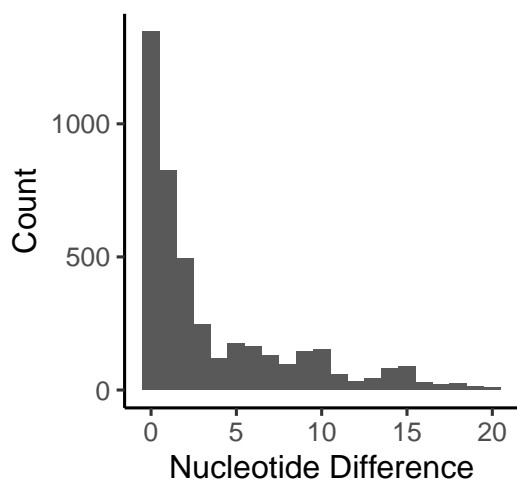
IGHV1-NL1*01

18 sequences assigned
No exact matches.



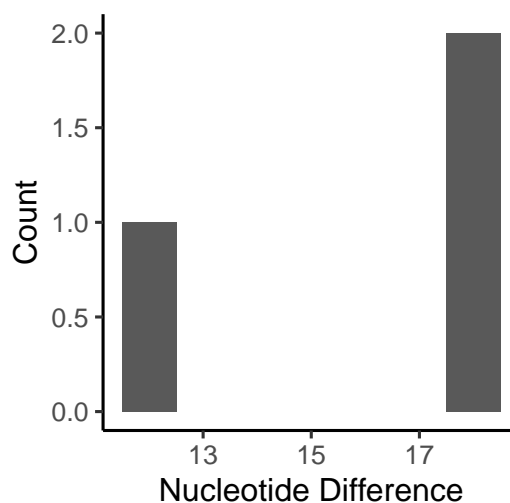
IGHV1-46*04

4537 sequences assigned
1346 (29.7%) exact matches, in which:
1238 unique CDR3
6 unique J



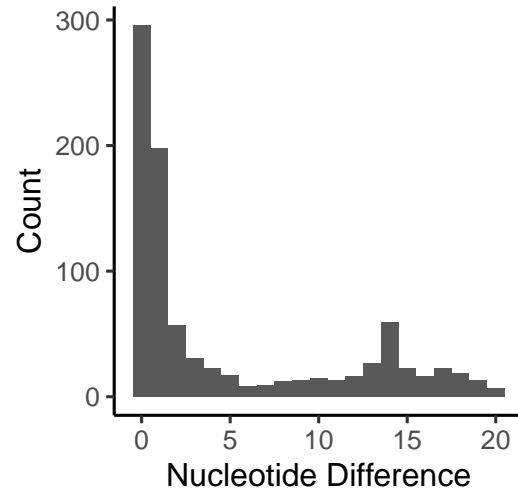
IGHV1-69-2*01

3 sequences assigned
No exact matches.



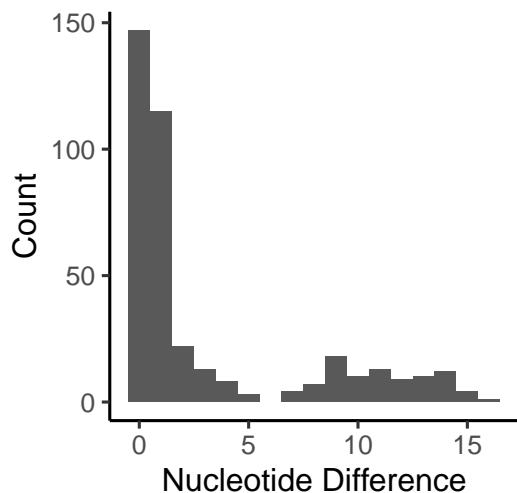
IGHV2-5*01

1232 sequences assigned
296 (24%) exact matches, in which:
267 unique CDR3
6 unique J



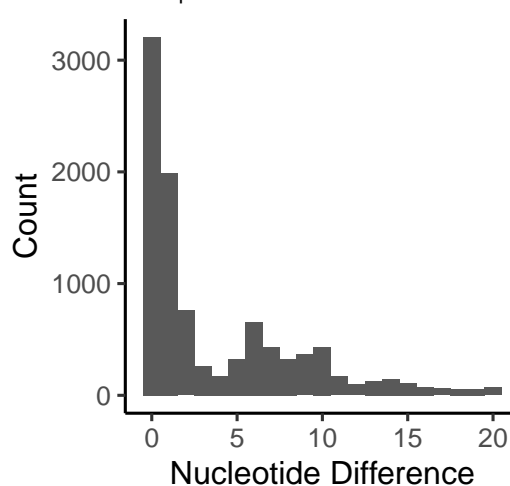
IGHV1-58*02

400 sequences assigned
147 (36.8%) exact matches, in which:
127 unique CDR3
6 unique J



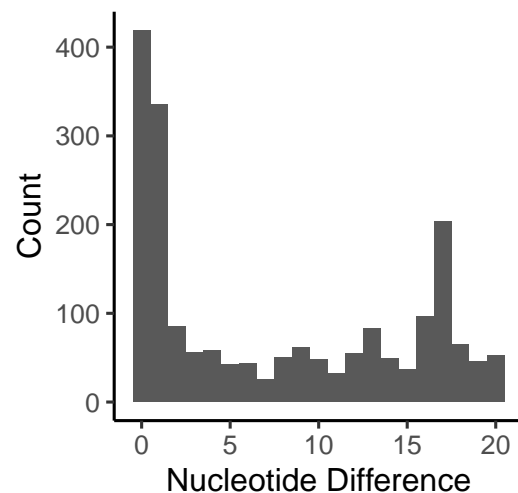
IGHV1-69*04_09

10782 sequences assigned
3207 (29.7%) exact matches, in which:
2921 unique CDR3
6 unique J



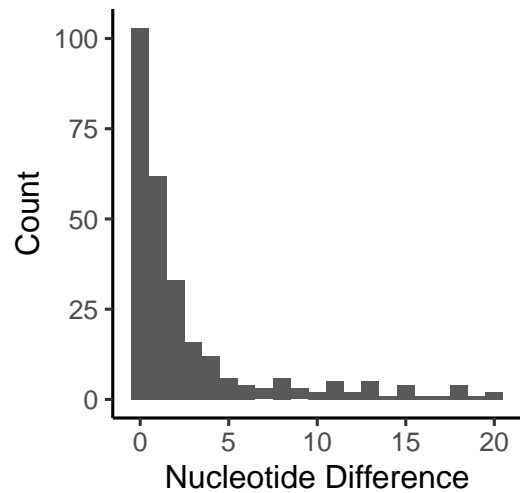
IGHV2-5*02

2183 sequences assigned
419 (19.2%) exact matches, in which:
381 unique CDR3
6 unique J



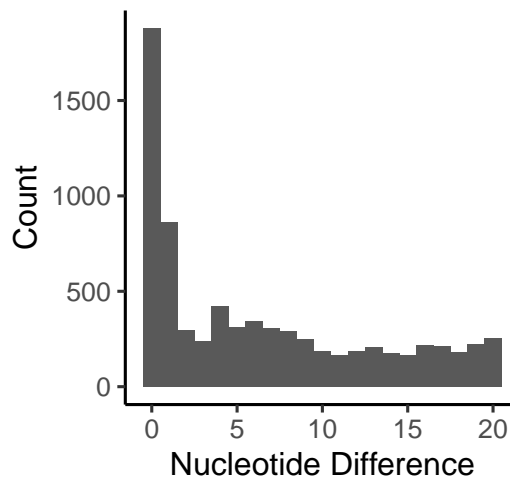
IGHV2-26*01

292 sequences assigned
103 (35.3%) exact matches, in which:
92 unique CDR3
6 unique J



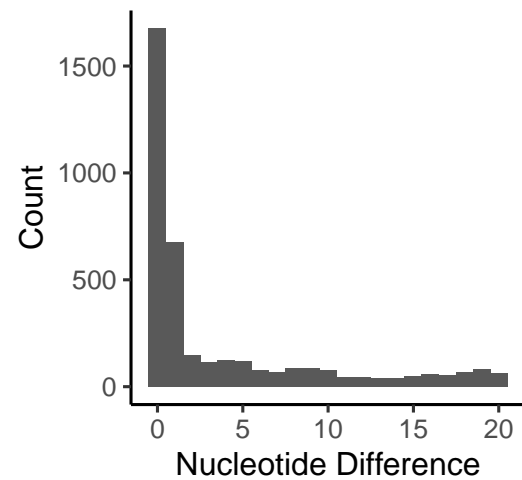
IGHV3-7*01

10759 sequences assigned
1878 (17.5%) exact matches, in which:
1392 unique CDR3
6 unique J



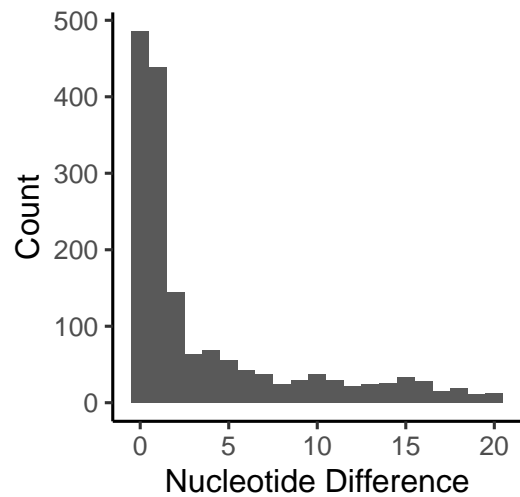
IGHV3-11*01

4655 sequences assigned
1676 (36%) exact matches, in which:
1221 unique CDR3
6 unique J



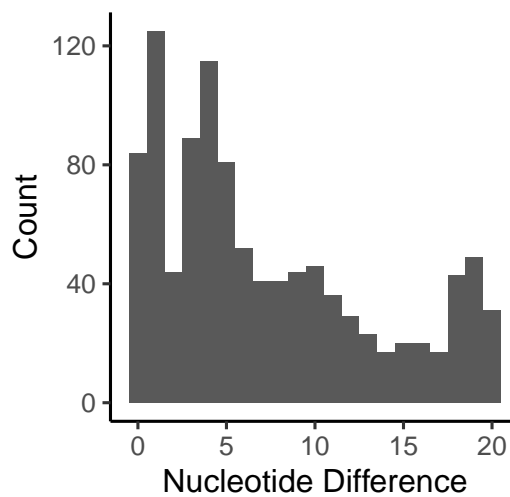
IGHV2-70*11_15

5138 sequences assigned
486 (9.5%) exact matches, in which:
417 unique CDR3
6 unique J



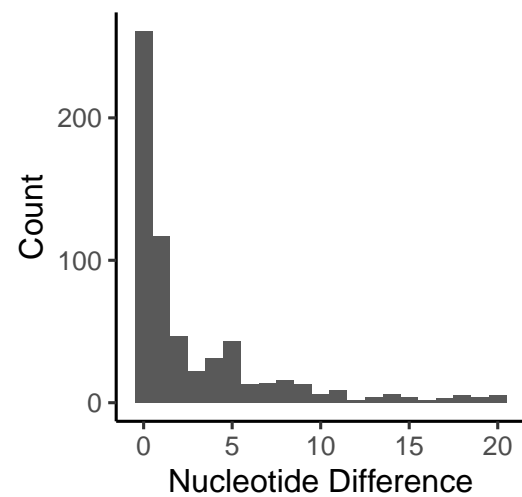
IGHV3-7*03

1302 sequences assigned
84 (6.5%) exact matches, in which:
81 unique CDR3
6 unique J



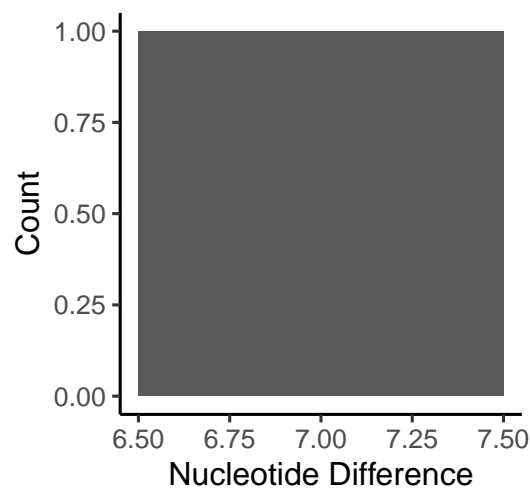
IGHV3-11*04

657 sequences assigned
261 (39.7%) exact matches, in which:
256 unique CDR3
6 unique J



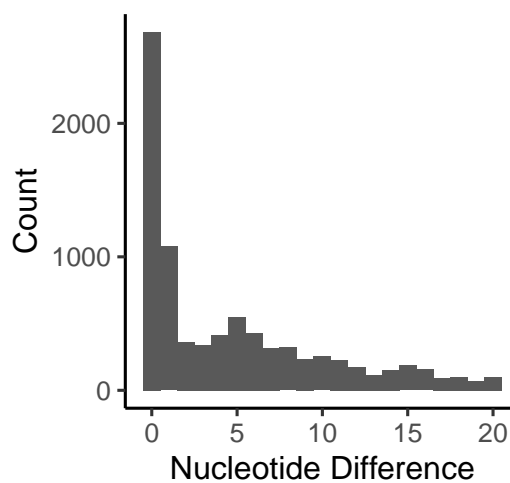
IGHV2-70D*14

1 sequences assigned
No exact matches.



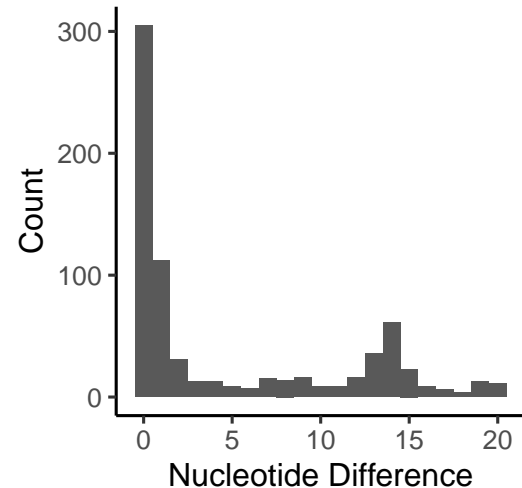
IGHV3-9*01

9375 sequences assigned
2684 (28.6%) exact matches, in which:
1782 unique CDR3
6 unique J



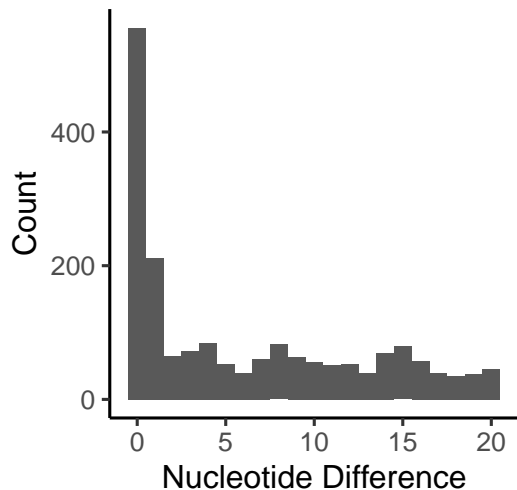
IGHV3-13*01

783 sequences assigned
305 (39%) exact matches, in which:
202 unique CDR3
6 unique J



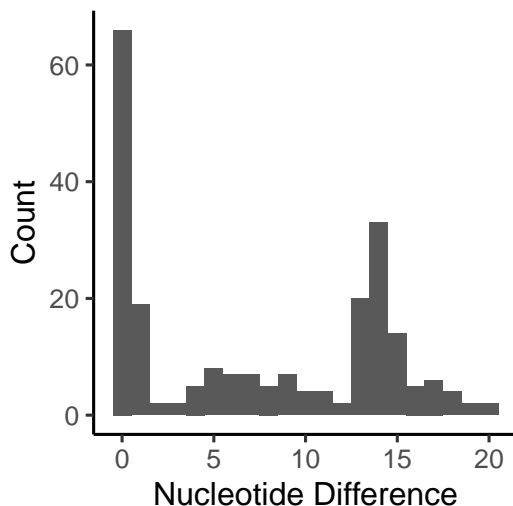
IGHV3-15*07

2719 sequences assigned
556 (20.4%) exact matches, in which:
440 unique CDR3
5 unique J



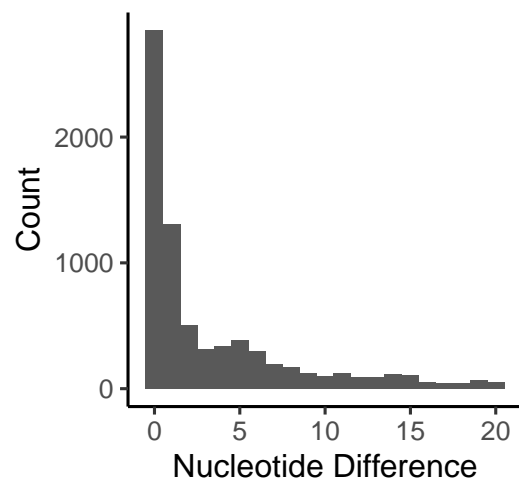
IGHV3-20*01_02

241 sequences assigned
66 (27.4%) exact matches, in which:
41 unique CDR3
5 unique J



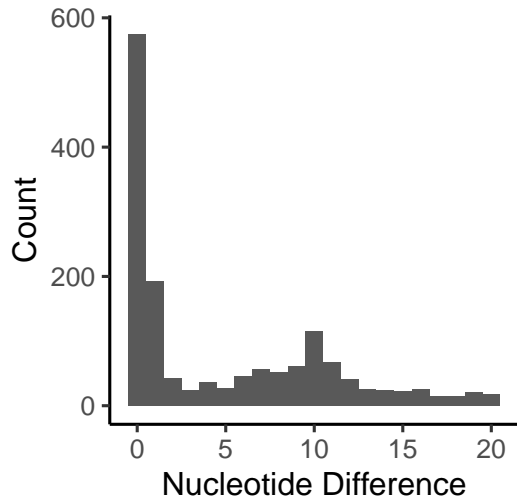
IGHV3-21*01_02

8473 sequences assigned
2848 (33.6%) exact matches, in which:
2039 unique CDR3
6 unique J



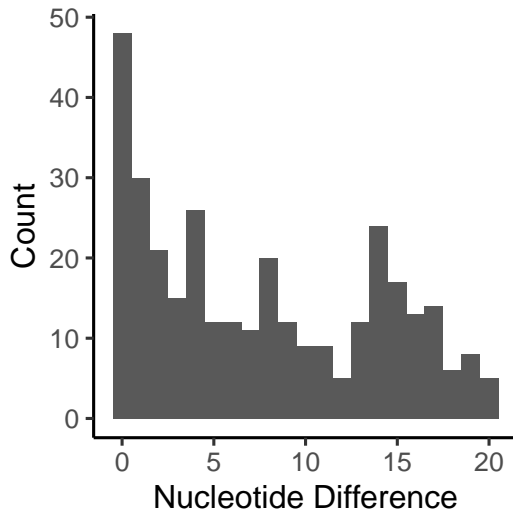
IGHV3-15*01_02

1918 sequences assigned
575 (30%) exact matches, in which:
431 unique CDR3
6 unique J



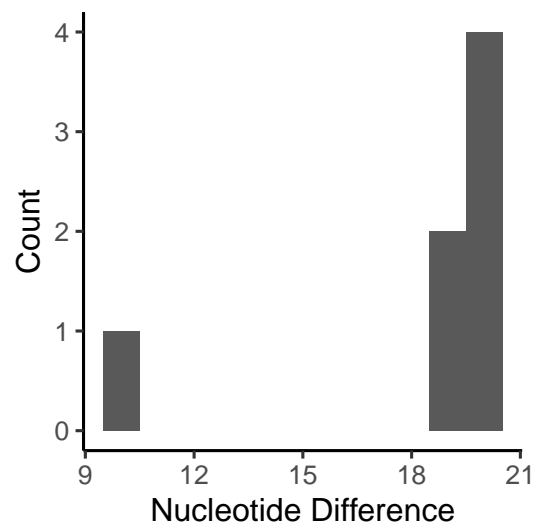
IGHV3-20*03_04

455 sequences assigned
48 (10.5%) exact matches, in which:
35 unique CDR3
5 unique J



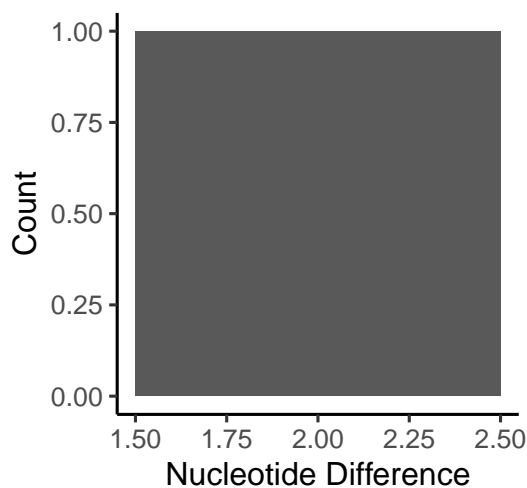
IGHV3-22*01_02

8 sequences assigned
No exact matches.



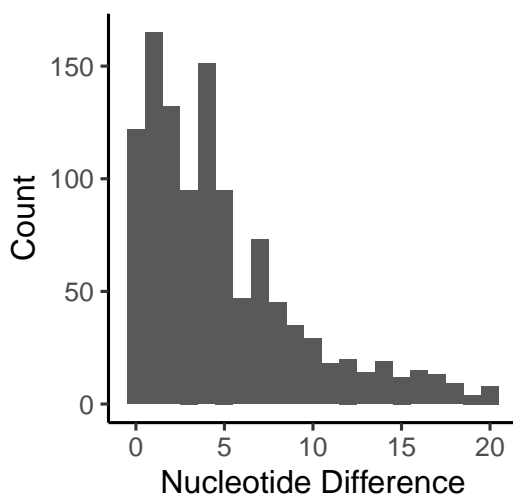
IGHV3-19*01

1 sequences assigned
No exact matches.



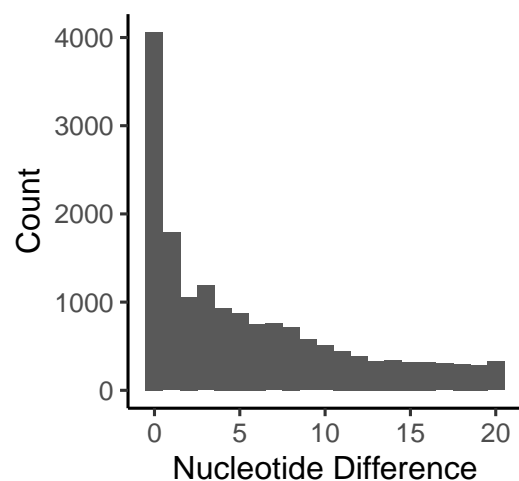
IGHV3-21*04

1252 sequences assigned
122 (9.7%) exact matches, in which:
117 unique CDR3
6 unique J



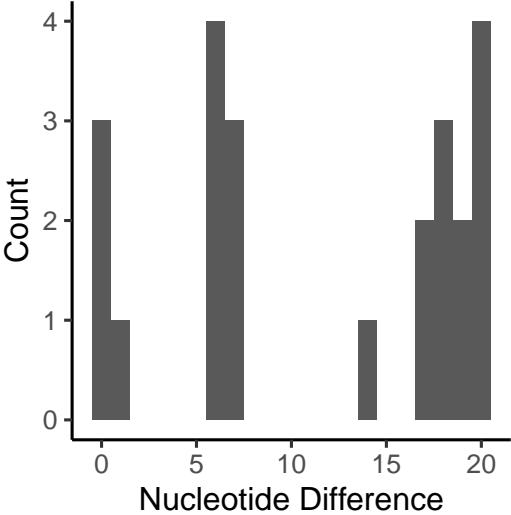
IGHV3-23*01_04

21604 sequences assigned
4062 (18.8%) exact matches, in which:
2695 unique CDR3
6 unique J



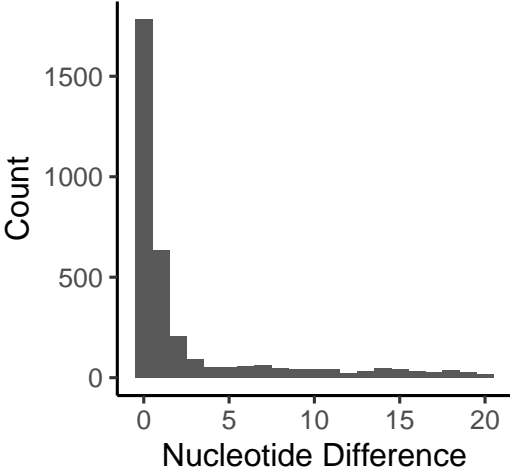
IGHV3-30-3*01

90 sequences assigned
3 (3.3%) exact matches, in which:
3 unique CDR3
1 unique J



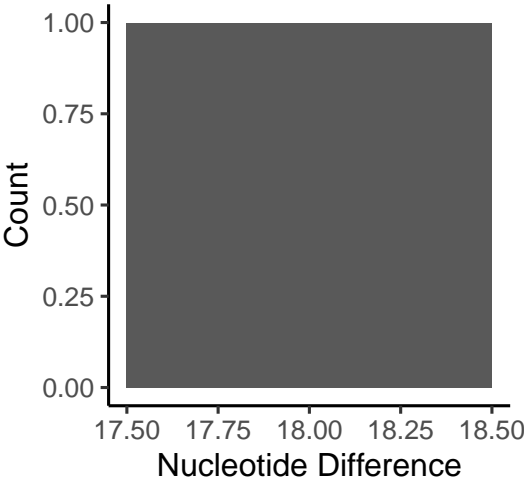
IGHV3-30*04

3767 sequences assigned
1783 (47.3%) exact matches, in which:
1336 unique CDR3
6 unique J



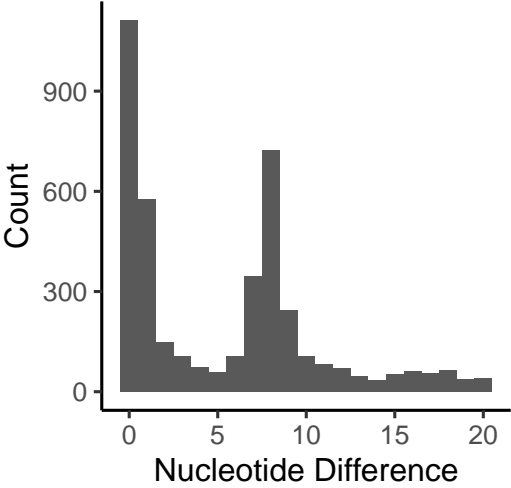
IGHV3-35*01

1 sequences assigned
No exact matches.



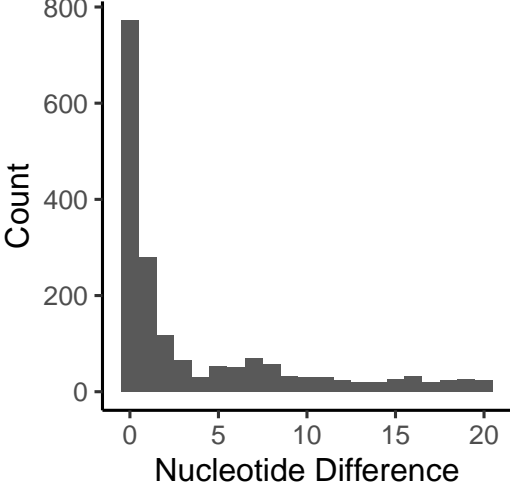
IGHV3-30*02

4633 sequences assigned
1113 (24%) exact matches, in which:
762 unique CDR3
6 unique J



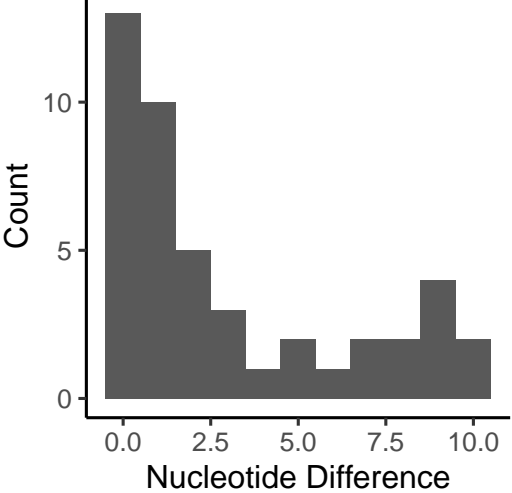
IGHV3-30*18

2569 sequences assigned
773 (30.1%) exact matches, in which:
582 unique CDR3
6 unique J



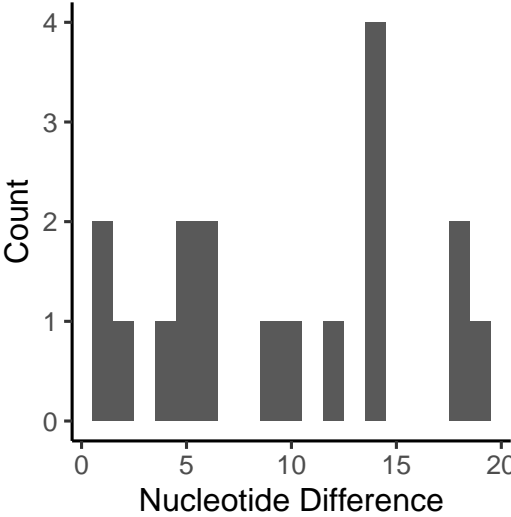
IGHV3-38-3*01

45 sequences assigned
13 (28.9%) exact matches, in which:
10 unique CDR3
3 unique J



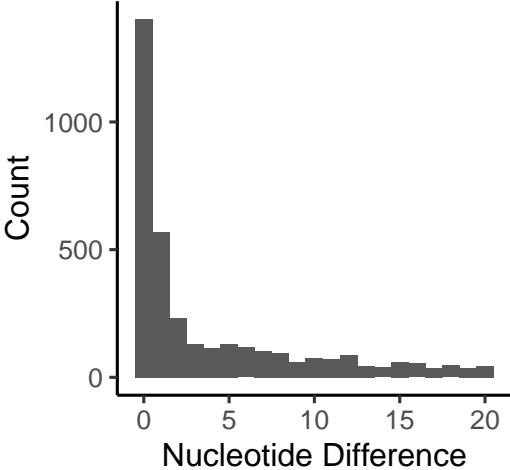
IGHV3-30-3*02

35 sequences assigned
No exact matches.



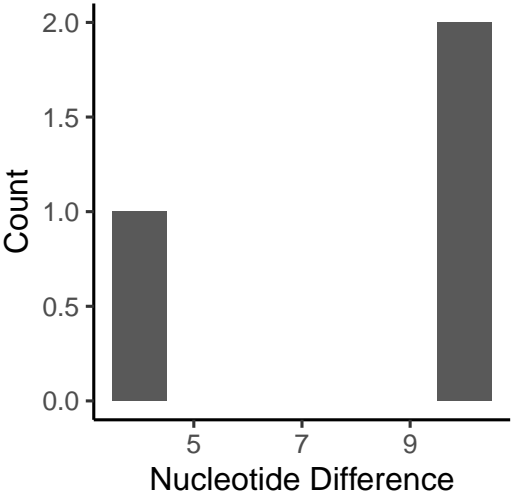
IGHV3-33*08

3734 sequences assigned
1403 (37.6%) exact matches, in which:
1068 unique CDR3
6 unique J



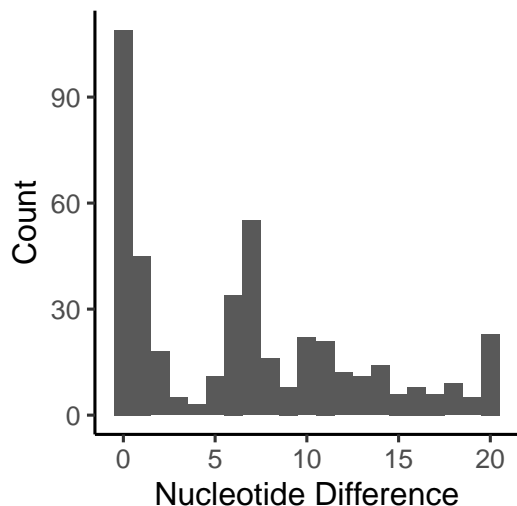
IGHV3-38*03

3 sequences assigned
No exact matches.



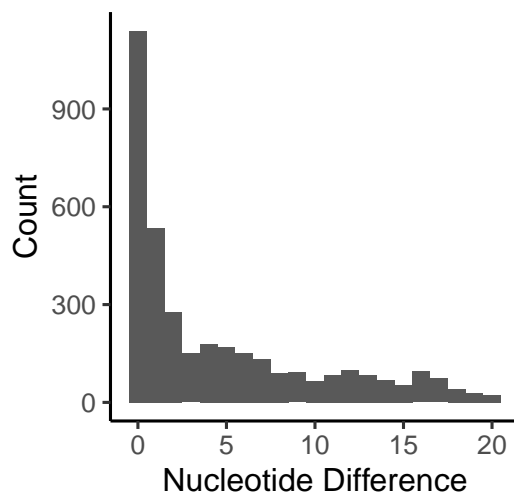
IGHV3-43*01

551 sequences assigned
109 (19.8%) exact matches, in which:
79 unique CDR3
6 unique J



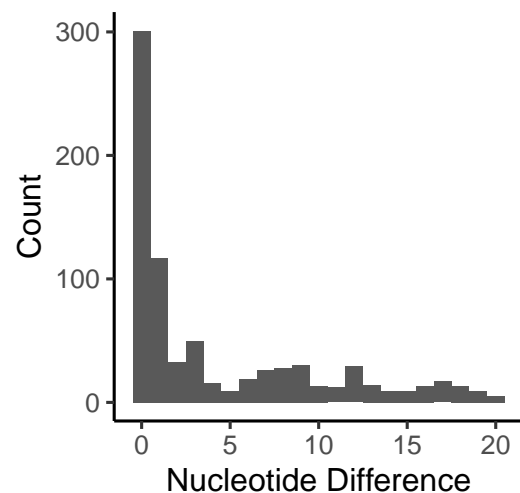
IGHV3-48*01

4037 sequences assigned
1140 (28.2%) exact matches, in which:
827 unique CDR3
6 unique J



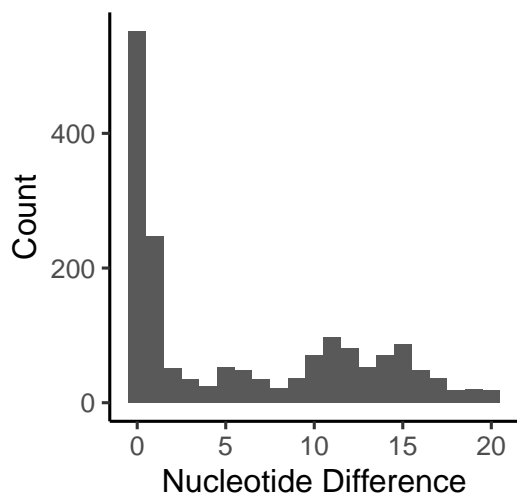
IGHV3-49*03_05

932 sequences assigned
301 (32.3%) exact matches, in which:
232 unique CDR3
6 unique J



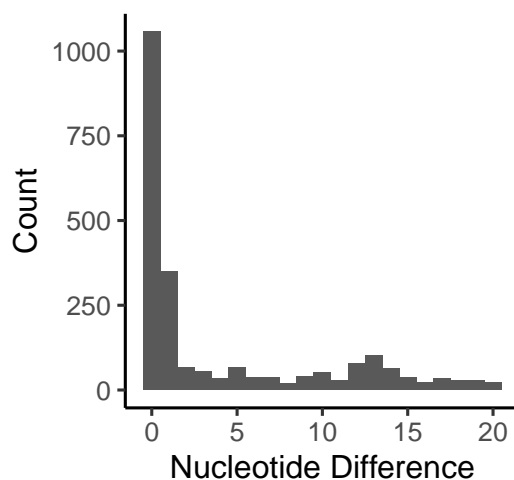
IGHV3-43*02

2136 sequences assigned
552 (25.8%) exact matches, in which:
379 unique CDR3
6 unique J



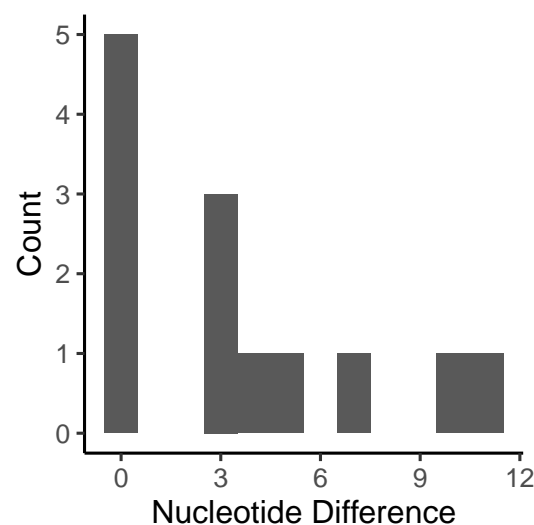
IGHV3-48*03

2700 sequences assigned
1057 (39.1%) exact matches, in which:
753 unique CDR3
6 unique J



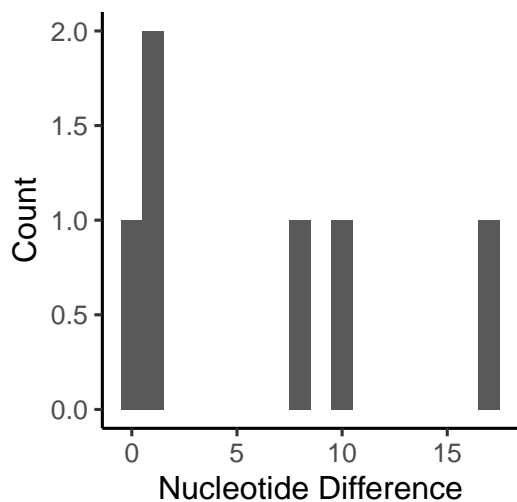
IGHV3-52*01_03

13 sequences assigned
5 (38.5%) exact matches, in which:
5 unique CDR3
2 unique J



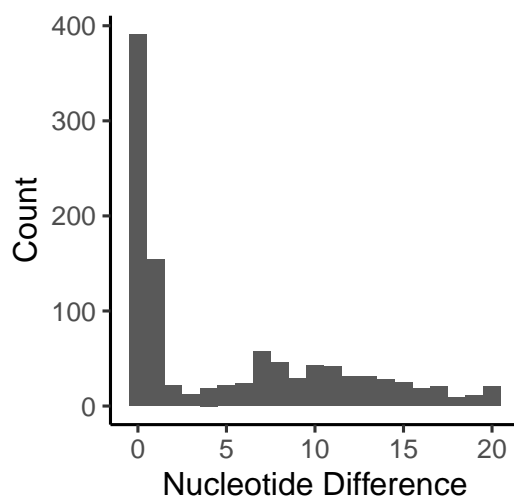
IGHV3-47*02

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



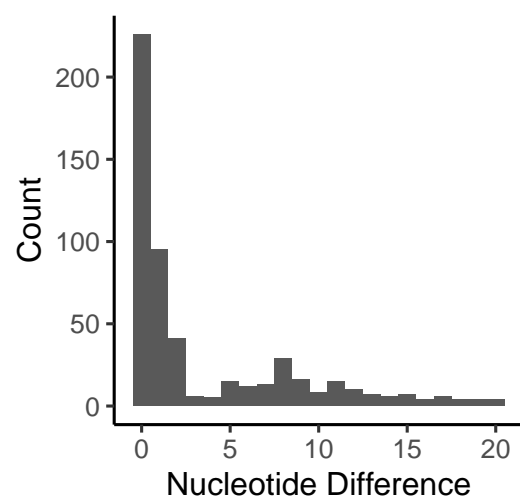
IGHV3-49*04

1295 sequences assigned
391 (30.2%) exact matches, in which:
285 unique CDR3
6 unique J



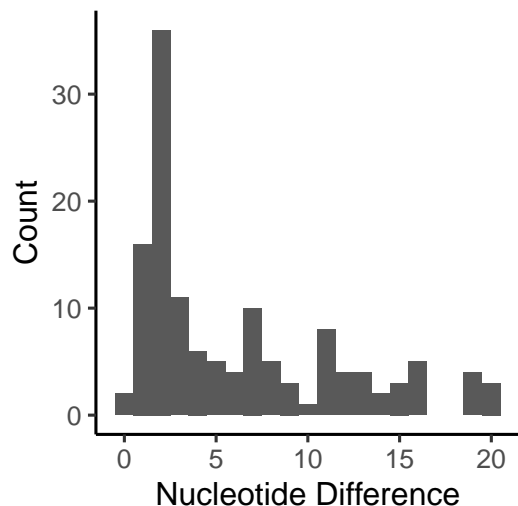
IGHV3-53*04

554 sequences assigned
226 (40.8%) exact matches, in which:
163 unique CDR3
6 unique J



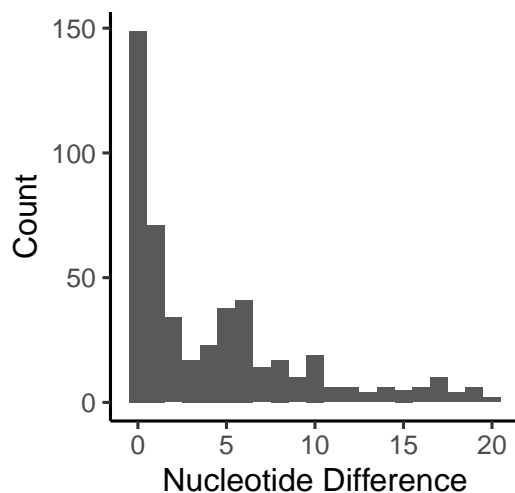
IGHV3-53*05

150 sequences assigned
2 (1.3%) exact matches, in which:
2 unique CDR3
2 unique J



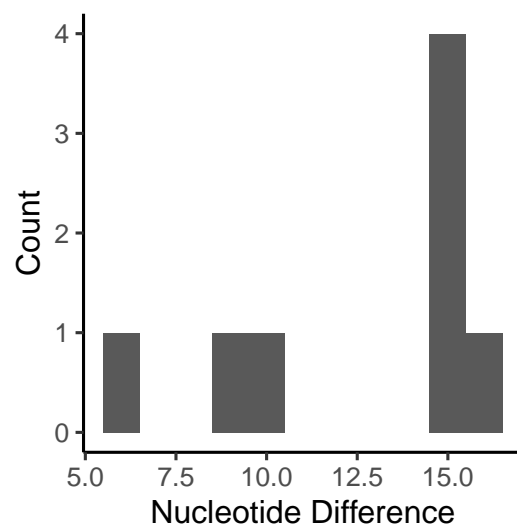
IGHV3-64*01

541 sequences assigned
149 (27.5%) exact matches, in which:
107 unique CDR3
6 unique J



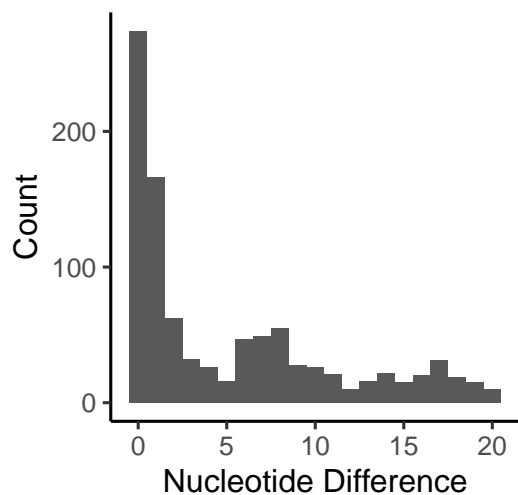
IGHV3-69-1*02

22 sequences assigned
No exact matches.



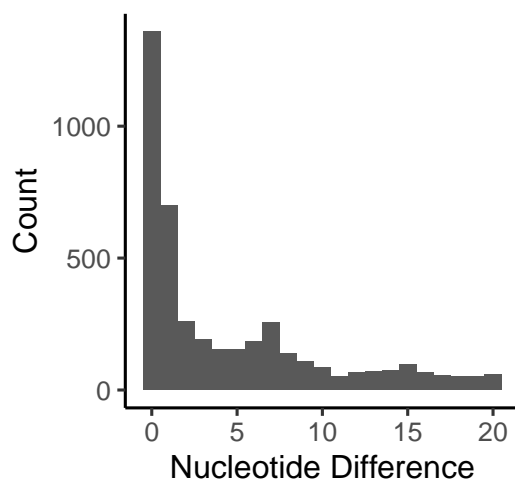
IGHV3-53*01_02

1181 sequences assigned
274 (23.2%) exact matches, in which:
200 unique CDR3
6 unique J



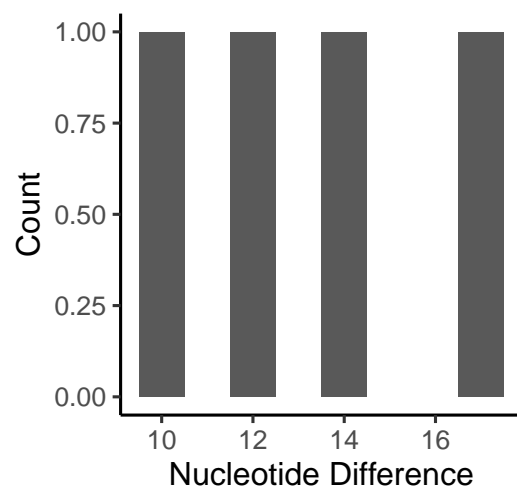
IGHV3-66*01

4917 sequences assigned
1358 (27.6%) exact matches, in which:
984 unique CDR3
6 unique J



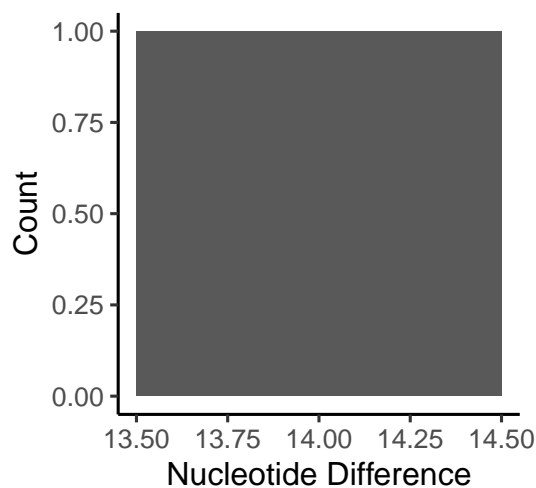
IGHV3-71*01_04

4 sequences assigned
No exact matches.



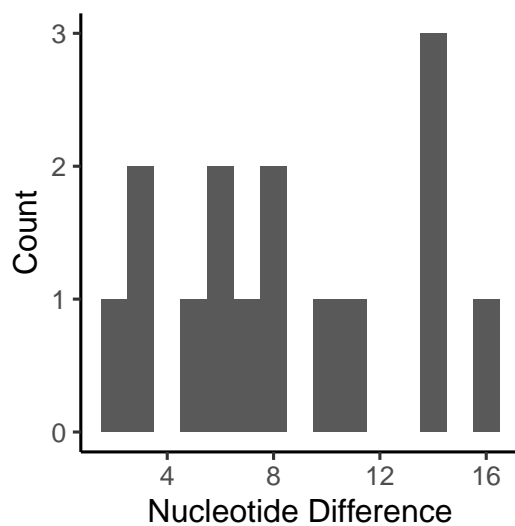
IGHV3-62*04

1 sequences assigned
No exact matches.



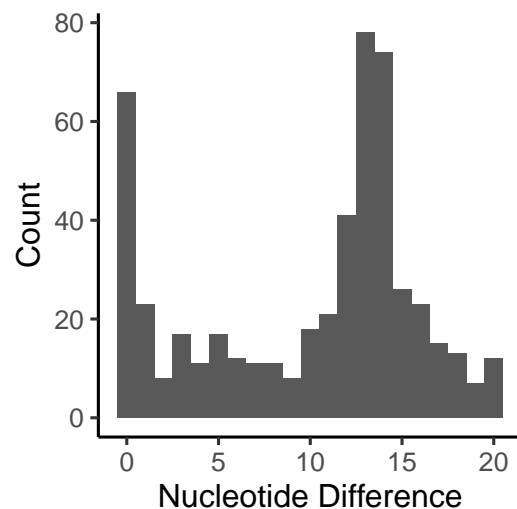
IGHV3-69-1*01

35 sequences assigned
No exact matches.



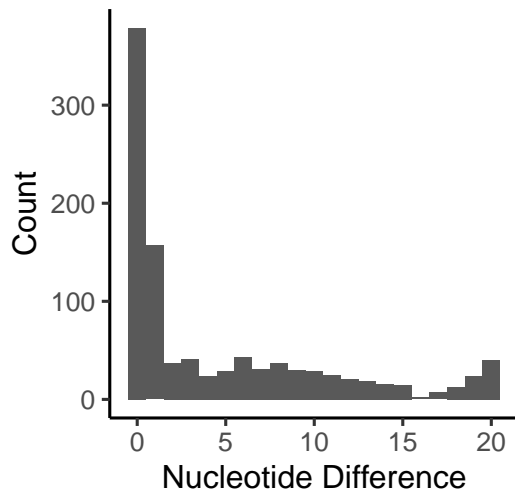
IGHV3-72*01

673 sequences assigned
66 (9.8%) exact matches, in which:
49 unique CDR3
6 unique J



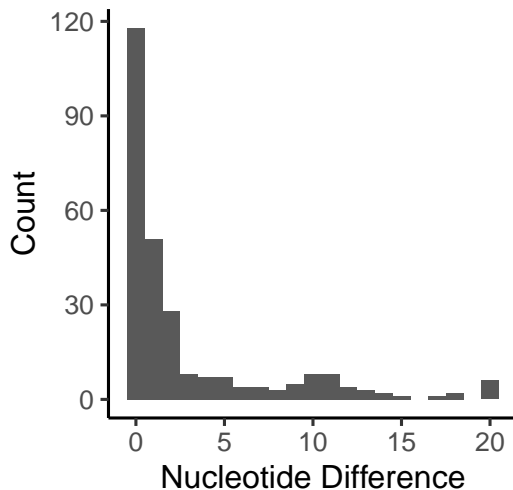
IGHV3-73*01_02

1153 sequences assigned
379 (32.9%) exact matches, in which:
275 unique CDR3
6 unique J



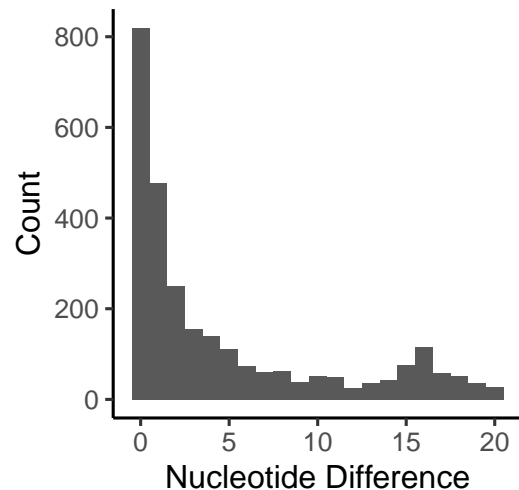
IGHV3-43D*03

295 sequences assigned
118 (40%) exact matches, in which:
84 unique CDR3
6 unique J



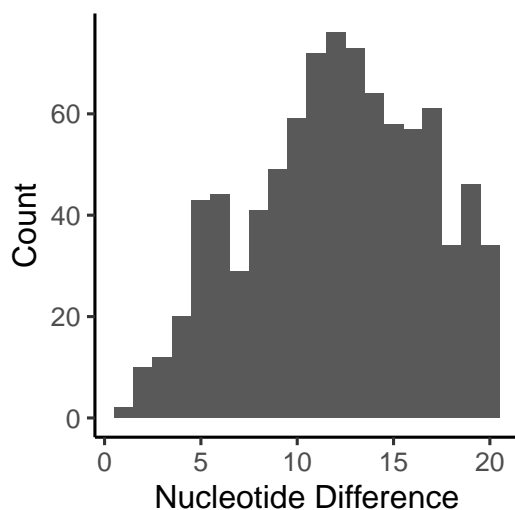
IGHV4-4*07

3269 sequences assigned
820 (25.1%) exact matches, in which:
741 unique CDR3
6 unique J



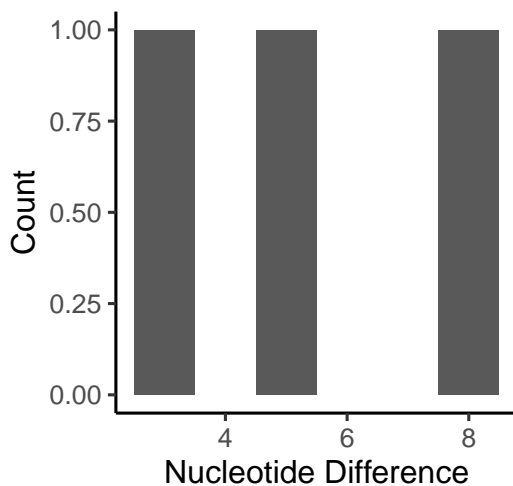
IGHV3-74*03

1548 sequences assigned
No exact matches.



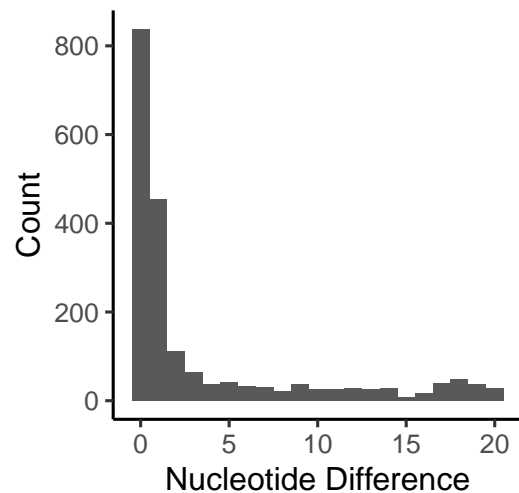
IGHV3-64D*06

5 sequences assigned
No exact matches.



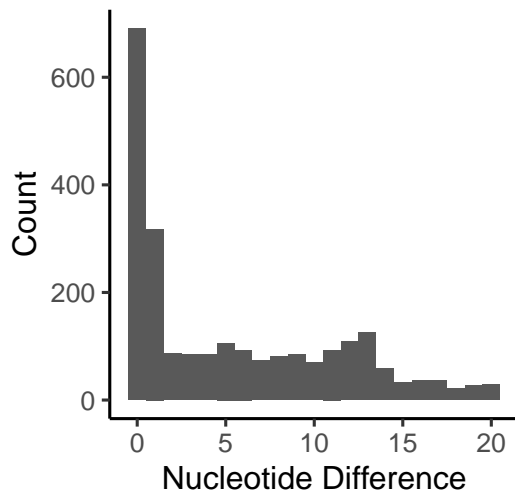
IGHV4-4*02_03

2769 sequences assigned
838 (30.3%) exact matches, in which:
720 unique CDR3
6 unique J



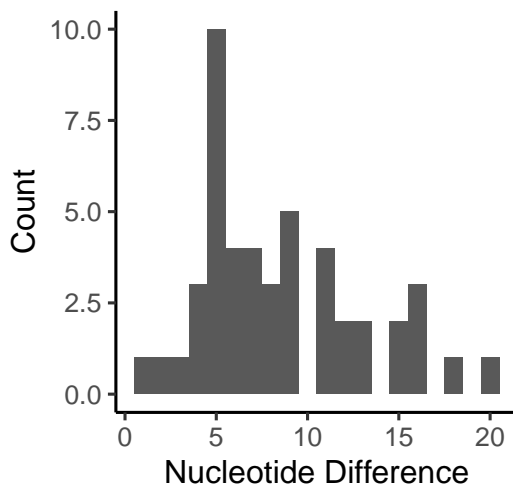
IGHV3-74*01_02

2592 sequences assigned
691 (26.7%) exact matches, in which:
455 unique CDR3
6 unique J



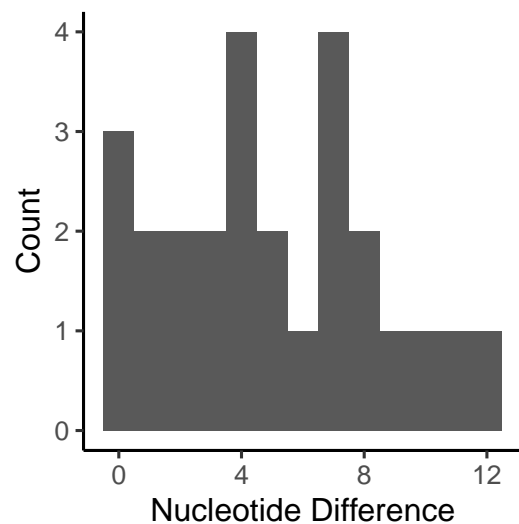
IGHV3-NL1*01

59 sequences assigned
No exact matches.



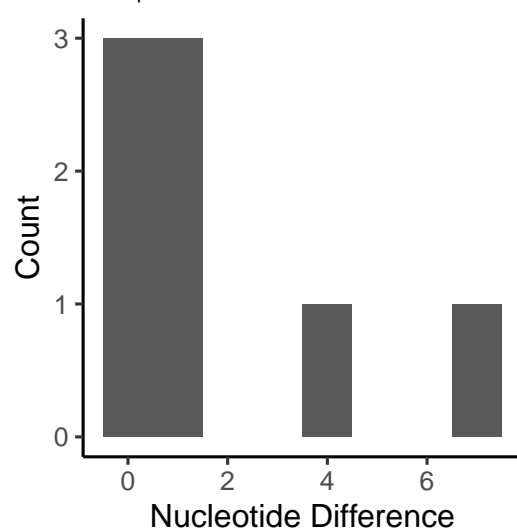
IGHV4-28*03

26 sequences assigned
3 (11.5%) exact matches, in which:
3 unique CDR3
3 unique J



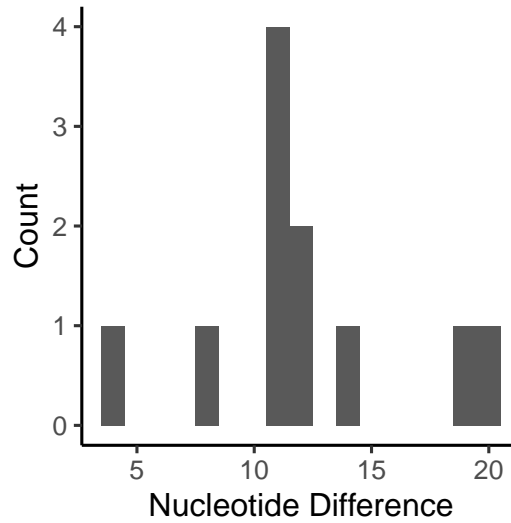
IGHV4-28*01_07

8 sequences assigned
3 (37.5%) exact matches, in which:
2 unique CDR3
2 unique J



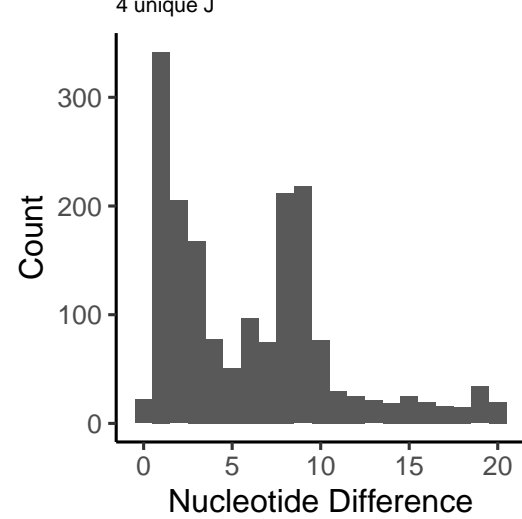
IGHV4-31*02

13 sequences assigned
No exact matches.



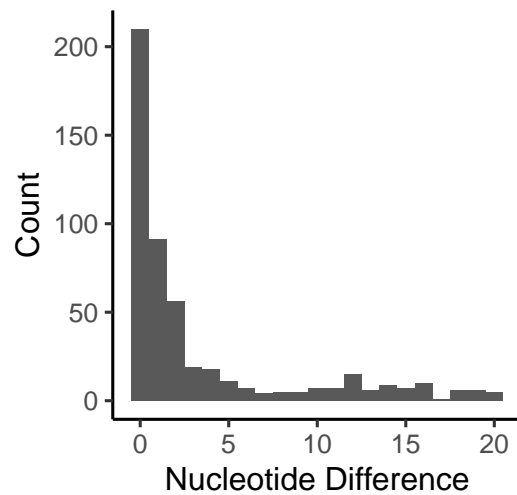
IGHV4-39*07

2025 sequences assigned
22 (1.1%) exact matches, in which:
22 unique CDR3
4 unique J



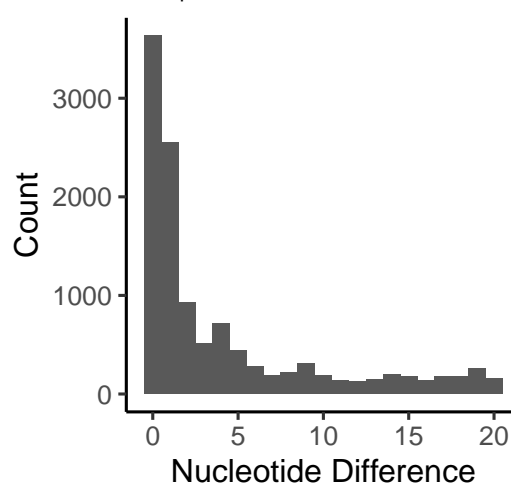
IGHV4-30-2*01

554 sequences assigned
210 (37.9%) exact matches, in which:
157 unique CDR3
5 unique J



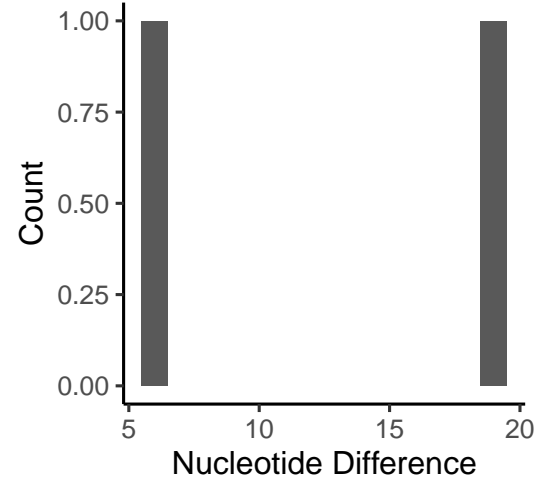
IGHV4-34*01_02

14370 sequences assigned
3634 (25.3%) exact matches, in which:
3048 unique CDR3
6 unique J



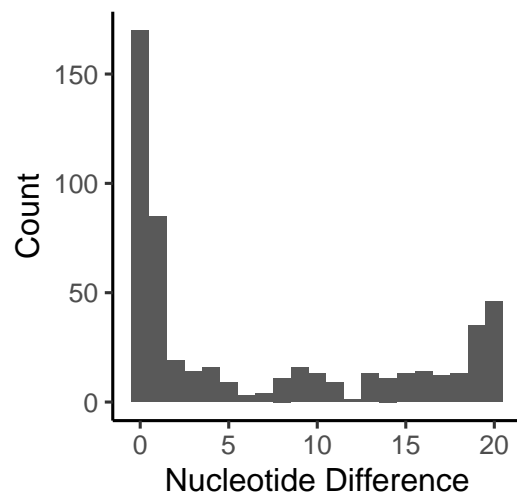
IGHV4-55*09

4 sequences assigned
No exact matches.



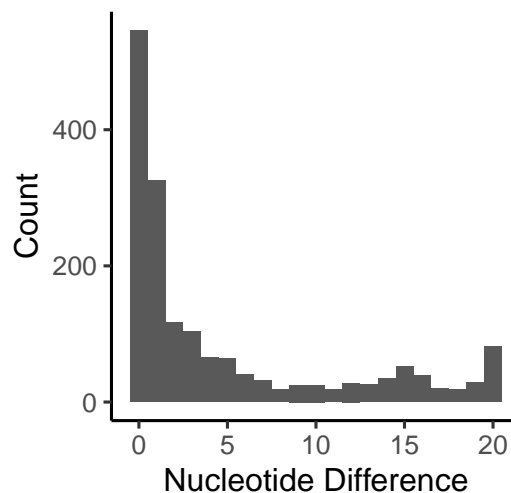
IGHV4-30-4*07

710 sequences assigned
170 (23.9%) exact matches, in which:
145 unique CDR3
6 unique J



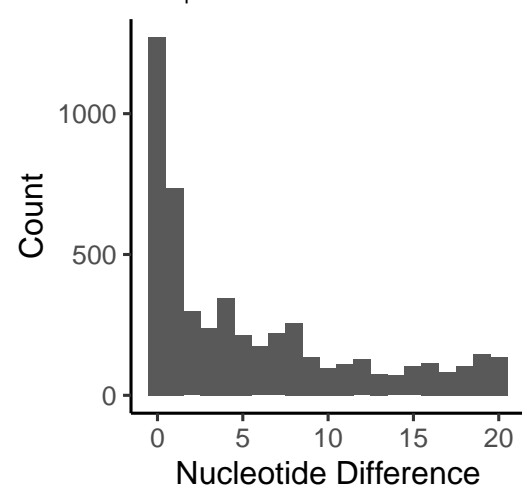
IGHV4-38-2*02

2284 sequences assigned
546 (23.9%) exact matches, in which:
504 unique CDR3
6 unique J



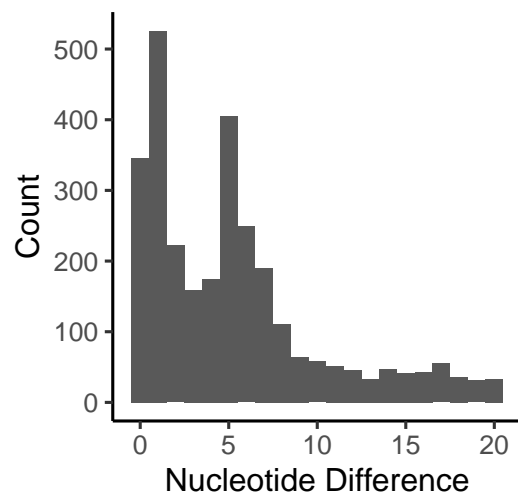
IGHV4-59*08

7058 sequences assigned
1272 (18%) exact matches, in which:
1104 unique CDR3
6 unique J



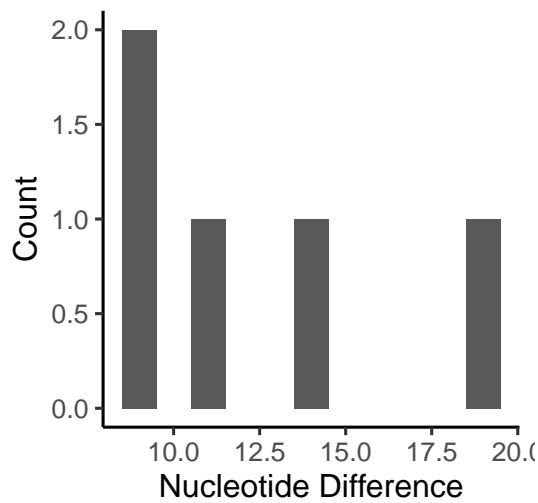
IGHV4–59*12

5507 sequences assigned
346 (6.3%) exact matches, in which:
339 unique CDR3
6 unique J



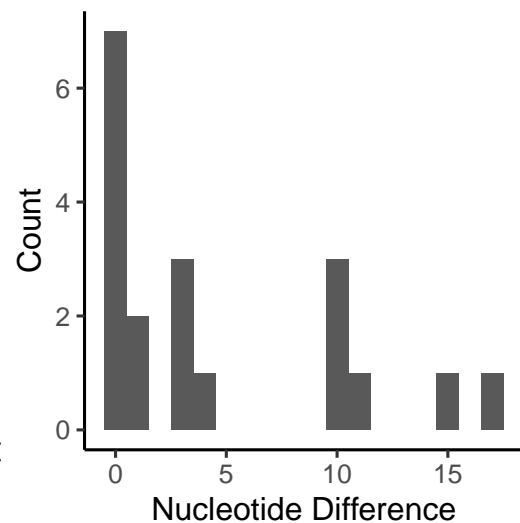
IGHV1/OR15–3*02

6 sequences assigned
No exact matches.



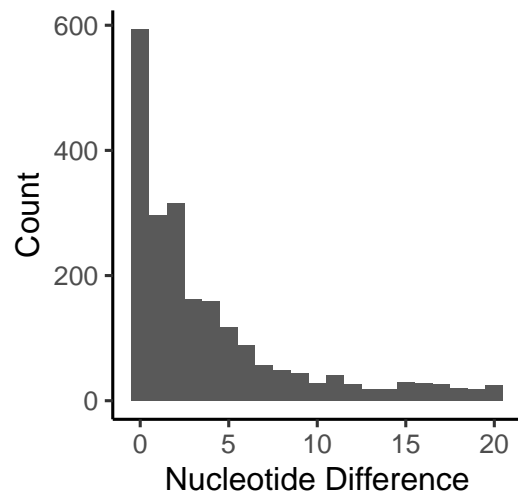
IGHV5–51*04

21 sequences assigned
7 (33.3%) exact matches, in which:
7 unique CDR3
3 unique J



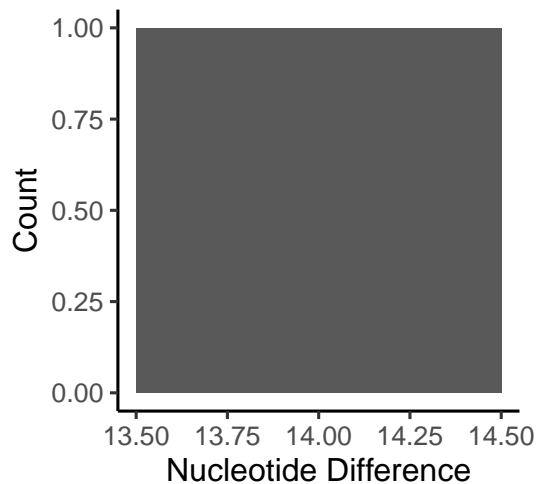
IGHV4–61*01

3057 sequences assigned
594 (19.4%) exact matches, in which:
560 unique CDR3
6 unique J



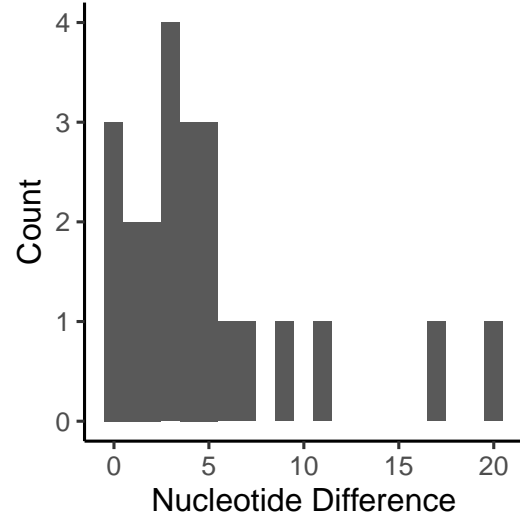
IGHV1/OR15–4*01

1 sequences assigned
No exact matches.



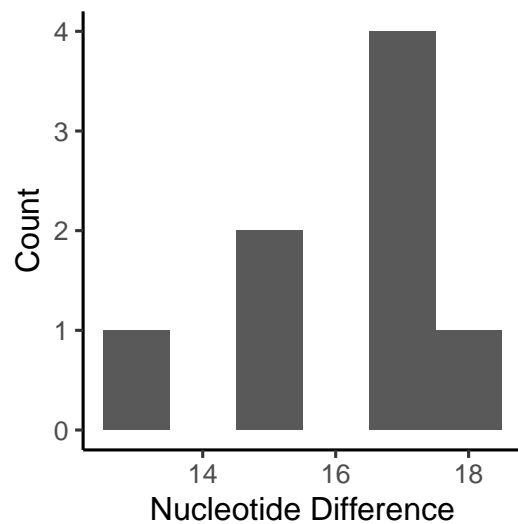
IGHV5–51*06

24 sequences assigned
3 (12.5%) exact matches, in which:
3 unique CDR3
2 unique J



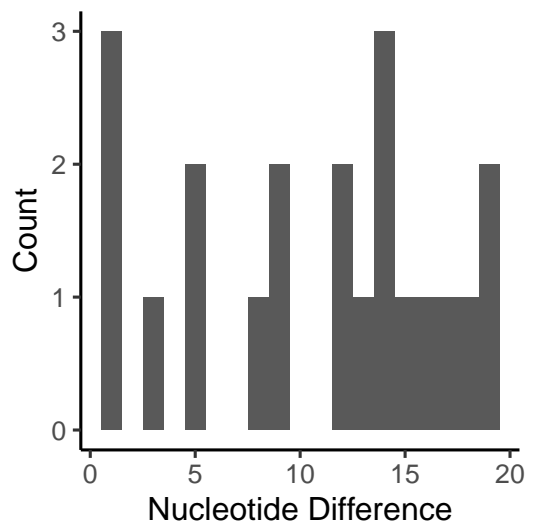
IGHV1/OR15–2*02_03

11 sequences assigned
No exact matches.



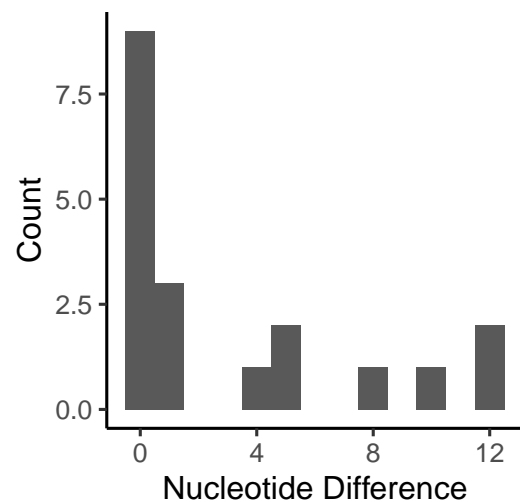
IGHV4/OR15–8*01

44 sequences assigned
No exact matches.



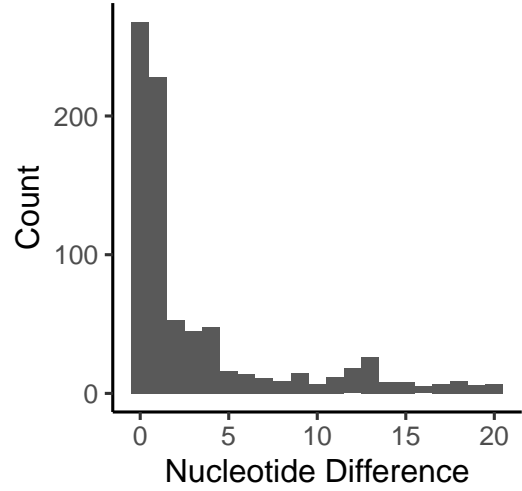
IGHV5–51*07

24 sequences assigned
9 (37.5%) exact matches, in which:
9 unique CDR3
4 unique J



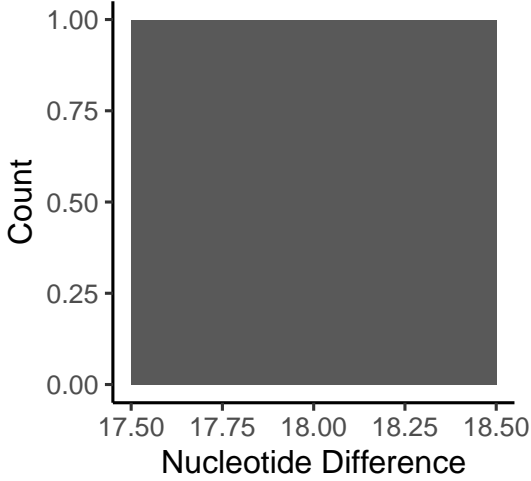
IGHV6-1*01_02

1017 sequences assigned
268 (26.4%) exact matches, in which:
235 unique CDR3
6 unique J



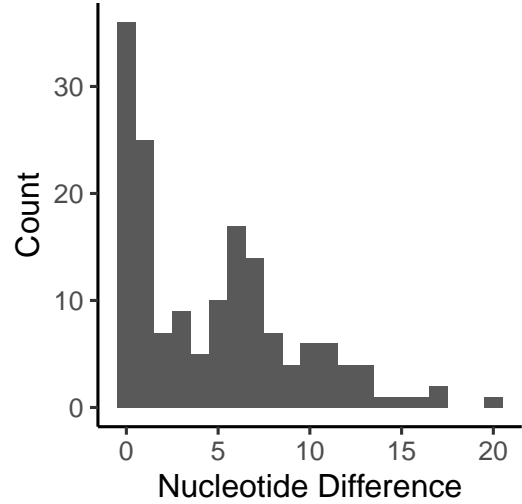
IGHV3/OR16-10*01_03

1 sequences assigned
No exact matches.



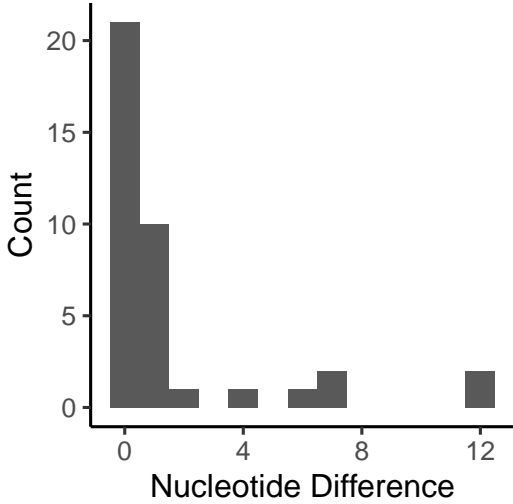
IGHV6-1*01_02_A315G

169 sequences assigned
36 (21.3%) exact matches, in which:
36 unique CDR3
6 unique J



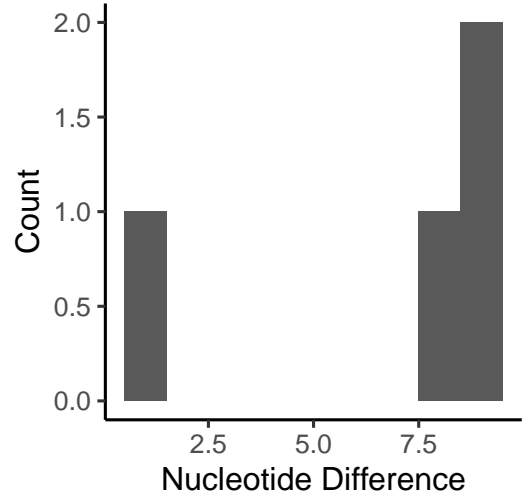
IGHV7-4-1*01

38 sequences assigned
21 (55.3%) exact matches, in which:
18 unique CDR3
4 unique J



IGHV3/OR16-9*01

4 sequences assigned
No exact matches.



IGHV6-1*01_02_A315G

