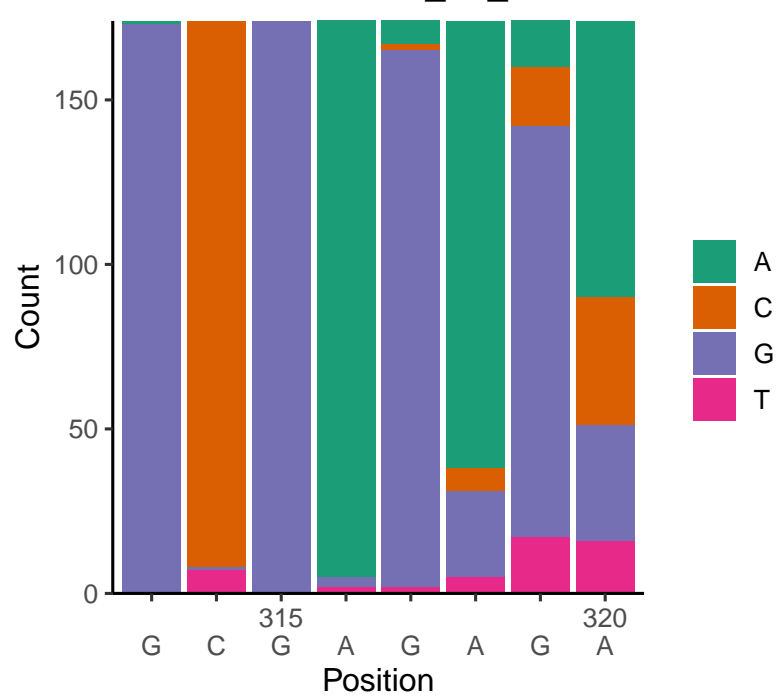


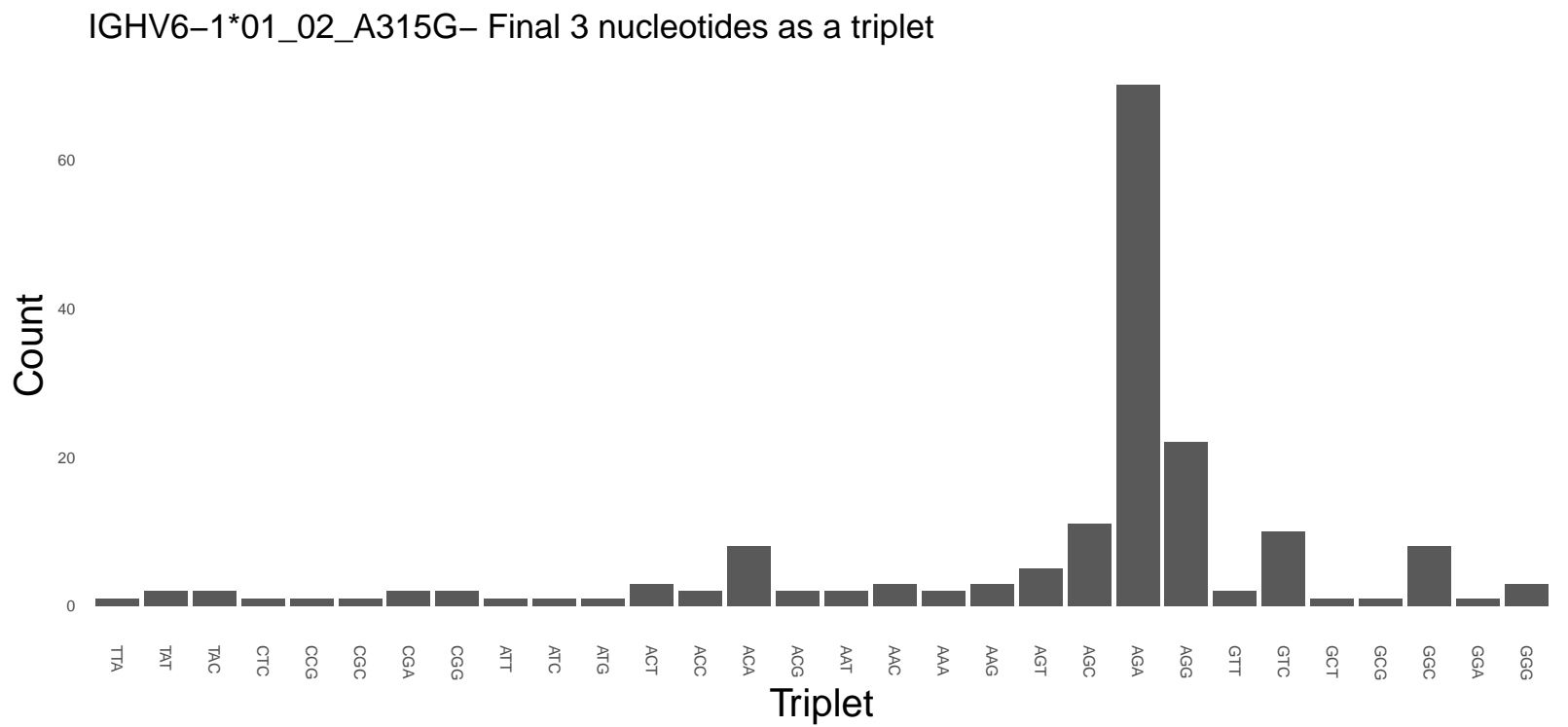
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

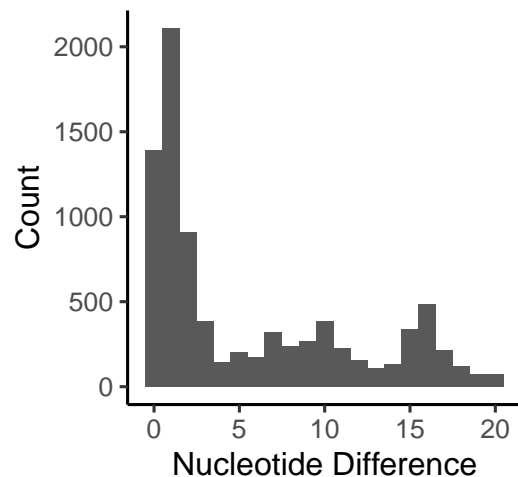


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



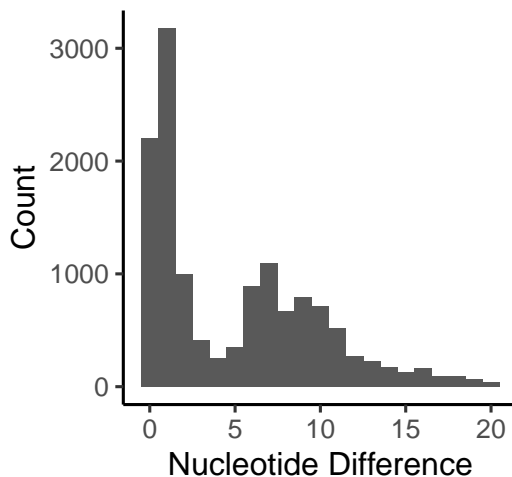
IGHV1-2*02

8877 sequences assigned
1390 (15.7%) exact matches, in which:
1030 unique CDR3
6 unique J



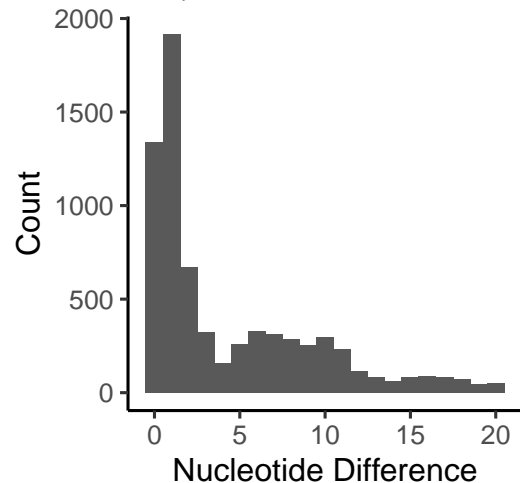
IGHV1-18*01

15459 sequences assigned
2202 (14.2%) exact matches, in which:
1696 unique CDR3
6 unique J



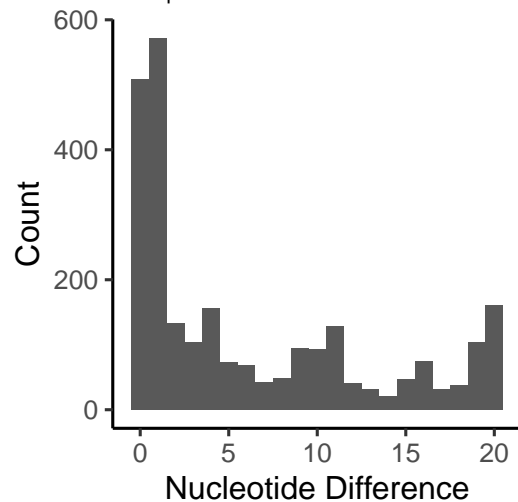
IGHV1-46*01

8062 sequences assigned
1341 (16.6%) exact matches, in which:
1066 unique CDR3
6 unique J



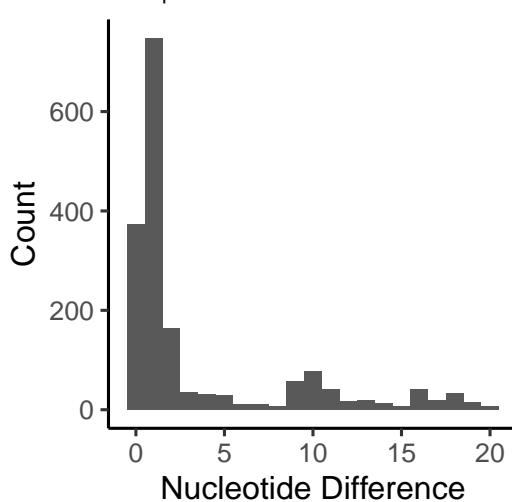
IGHV1-3*01_05

2817 sequences assigned
508 (18%) exact matches, in which:
390 unique CDR3
6 unique J



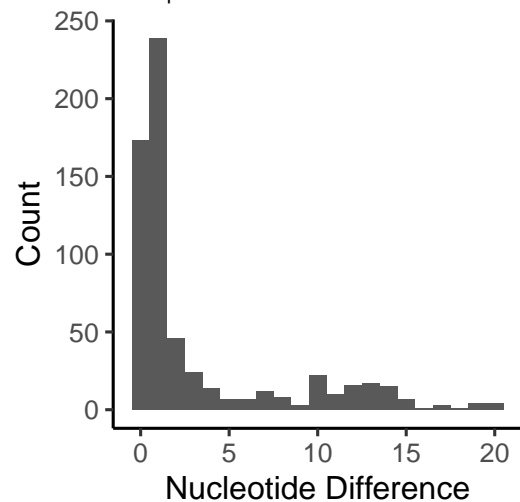
IGHV1-24*01

1804 sequences assigned
374 (20.7%) exact matches, in which:
216 unique CDR3
6 unique J



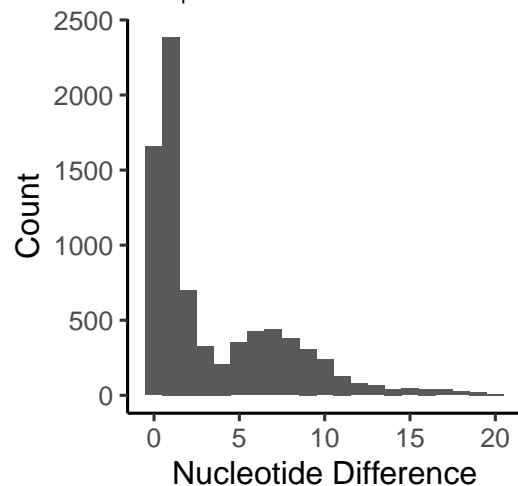
IGHV1-58*01_03

1434 sequences assigned
173 (12.1%) exact matches, in which:
154 unique CDR3
6 unique J



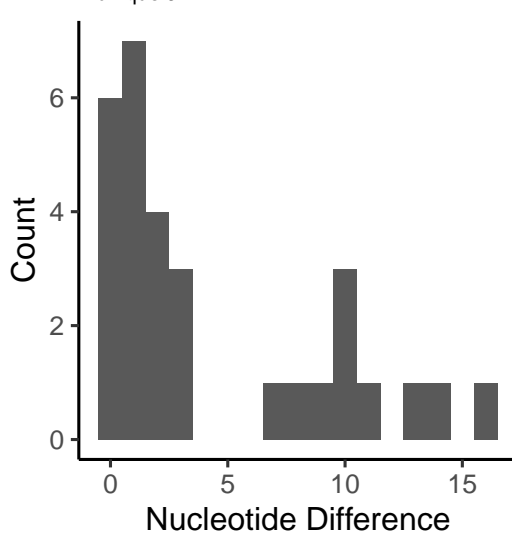
IGHV1-8*01

8048 sequences assigned
1656 (20.6%) exact matches, in which:
1311 unique CDR3
6 unique J



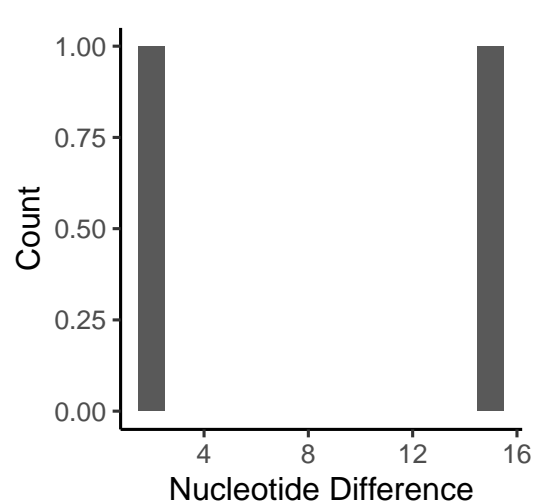
IGHV1-45*02

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



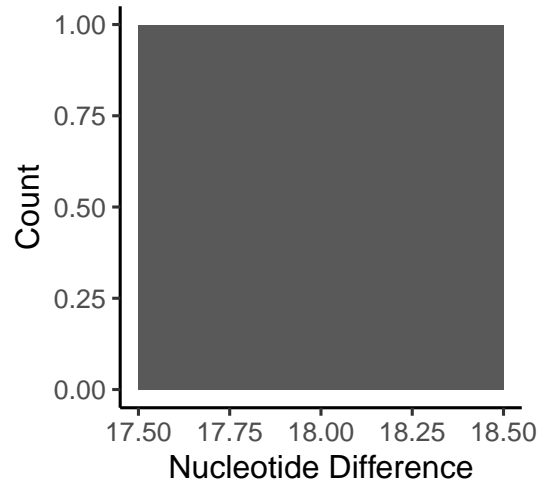
IGHV1-68*01

2 sequences assigned
No exact matches.



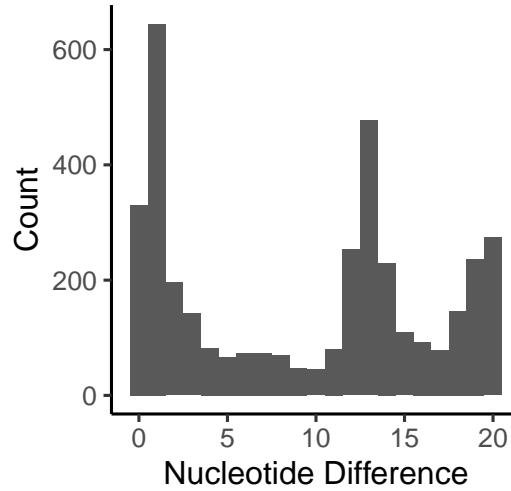
IGHV1-69-2*01

1 sequences assigned
No exact matches.



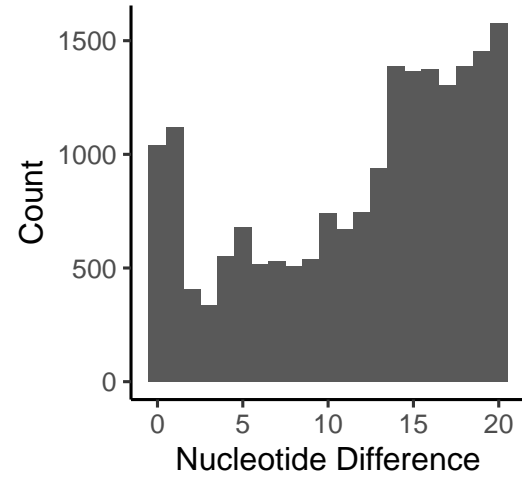
IGHV2-5*02

6522 sequences assigned
331 (5.1%) exact matches, in which:
233 unique CDR3
6 unique J



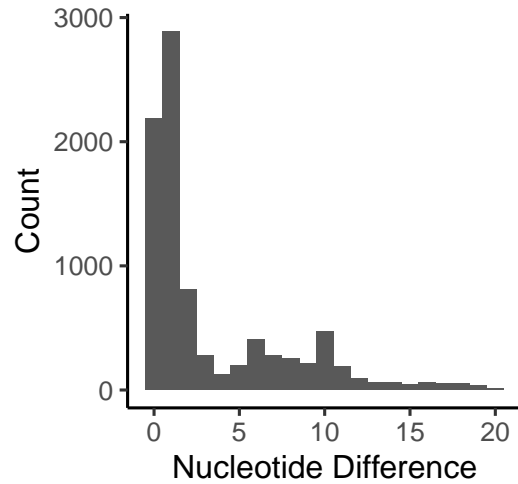
IGHV3-7*01

31361 sequences assigned
1042 (3.3%) exact matches, in which:
691 unique CDR3
6 unique J



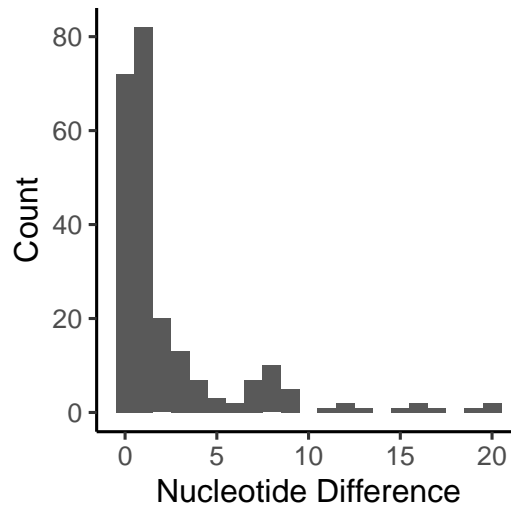
IGHV1-69*01_12_13

9110 sequences assigned
2184 (24%) exact matches, in which:
1733 unique CDR3
6 unique J



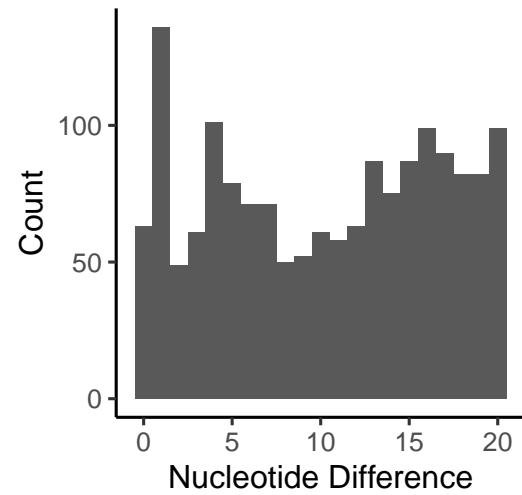
IGHV2-26*01

240 sequences assigned
72 (30%) exact matches, in which:
55 unique CDR3
6 unique J



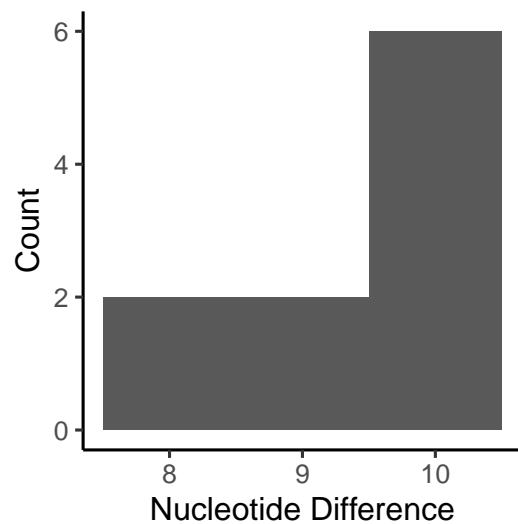
IGHV3-7*03

2960 sequences assigned
63 (2.1%) exact matches, in which:
48 unique CDR3
6 unique J



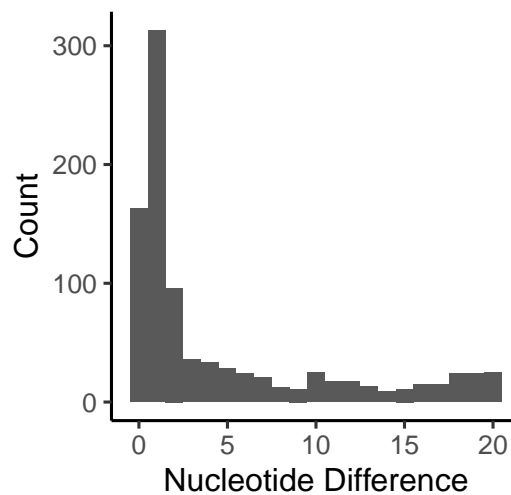
IGHV1-NL1*01

10 sequences assigned
No exact matches.



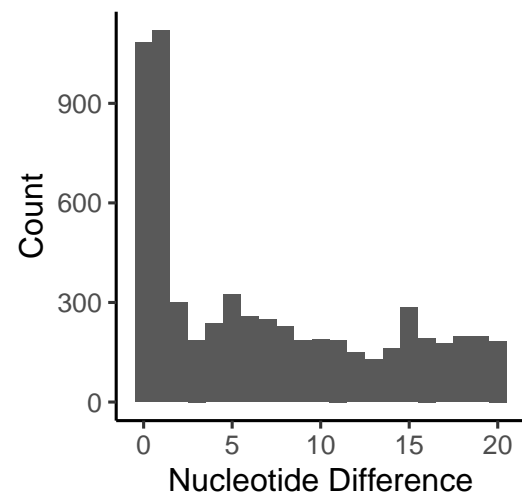
IGHV2-70*01

1442 sequences assigned
163 (11.3%) exact matches, in which:
107 unique CDR3
5 unique J



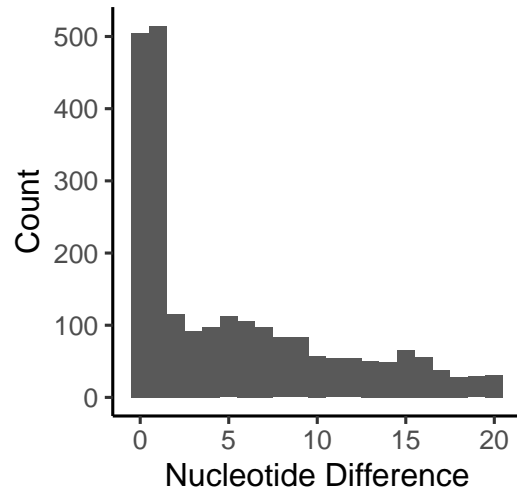
IGHV3-9*01

9493 sequences assigned
1083 (11.4%) exact matches, in which:
609 unique CDR3
6 unique J



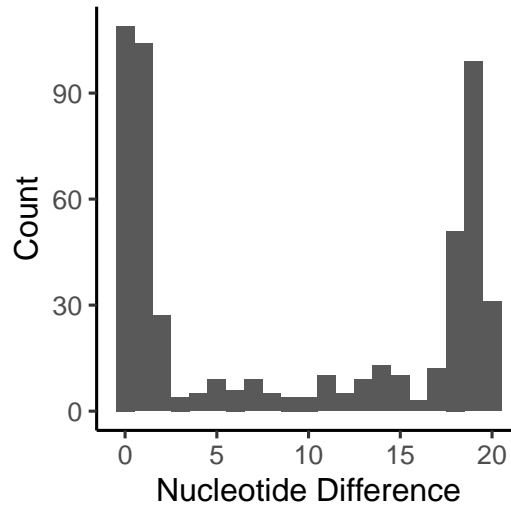
IGHV3-11*01

2634 sequences assigned
505 (19.2%) exact matches, in which:
347 unique CDR3
6 unique J



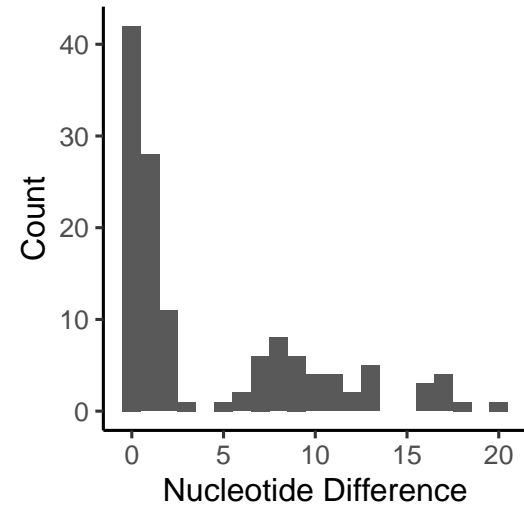
IGHV3-13*01

1316 sequences assigned
109 (8.3%) exact matches, in which:
65 unique CDR3
5 unique J



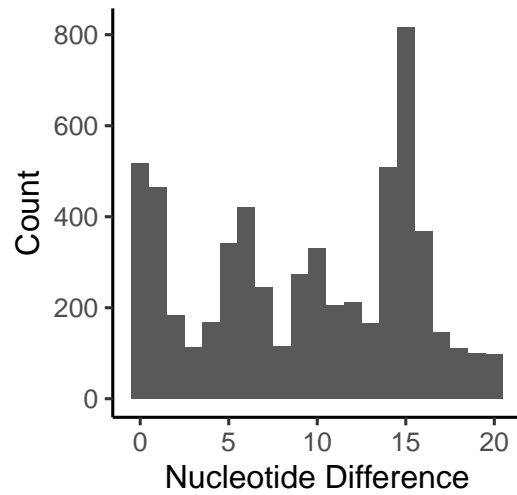
IGHV3-20*01_02

134 sequences assigned
42 (31.3%) exact matches, in which:
26 unique CDR3
5 unique J



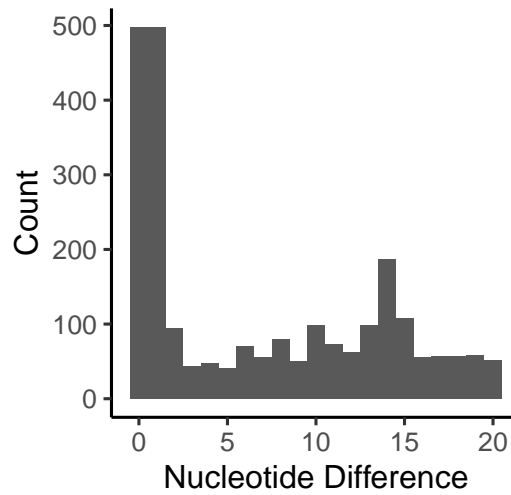
IGHV3-11*04

6514 sequences assigned
518 (8%) exact matches, in which:
351 unique CDR3
6 unique J



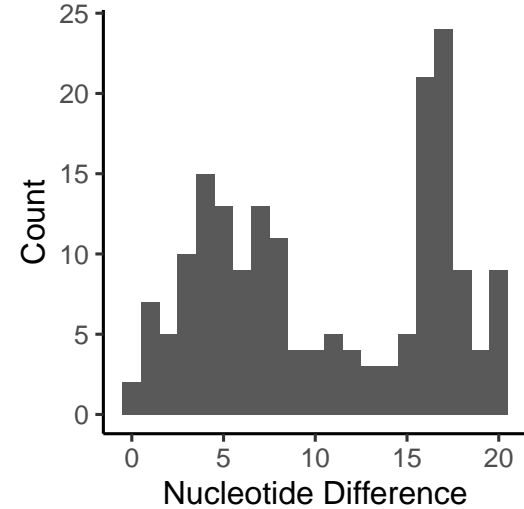
IGHV3-15*01_02

3998 sequences assigned
498 (12.5%) exact matches, in which:
284 unique CDR3
6 unique J



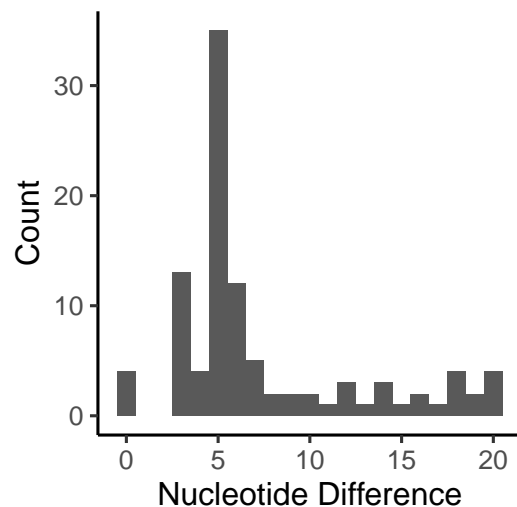
IGHV3-20*03_04

318 sequences assigned
2 (0.6%) exact matches, in which:
2 unique CDR3
2 unique J



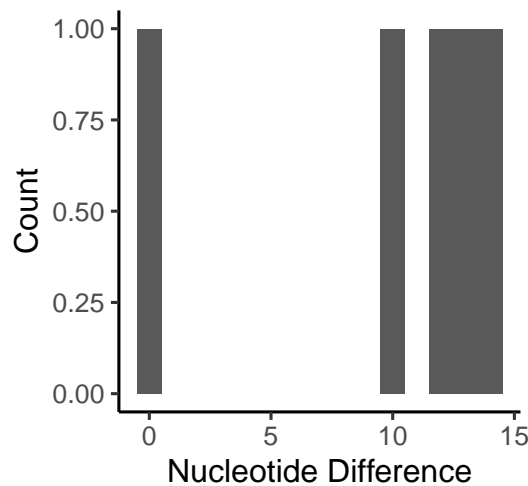
IGHV3-11*06

166 sequences assigned
4 (2.4%) exact matches, in which:
4 unique CDR3
4 unique J



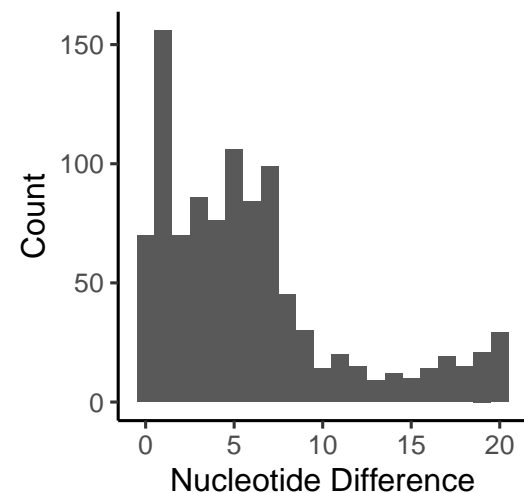
IGHV3-19*01

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



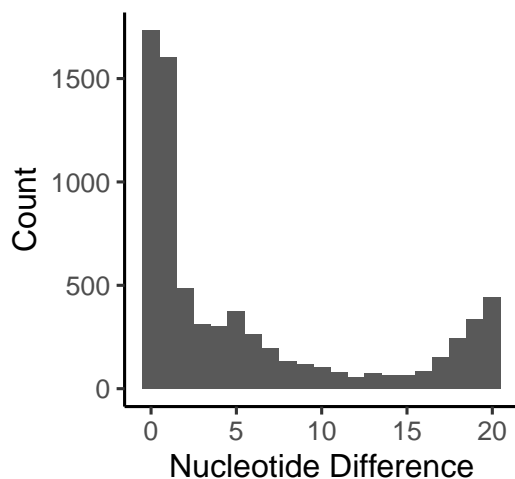
IGHV3-21*04

1296 sequences assigned
70 (5.4%) exact matches, in which:
63 unique CDR3
6 unique J



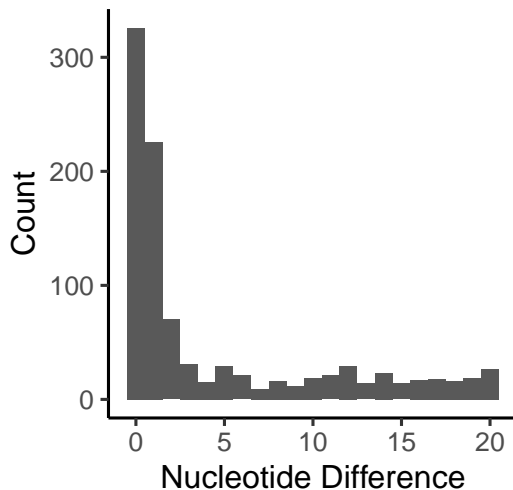
IGHV3-21*01_02

10568 sequences assigned
1733 (16.4%) exact matches, in which:
1084 unique CDR3
6 unique J



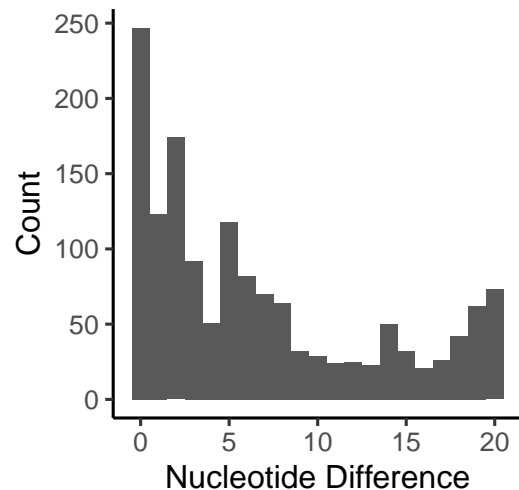
IGHV3-30*03

2507 sequences assigned
326 (13%) exact matches, in which:
266 unique CDR3
6 unique J



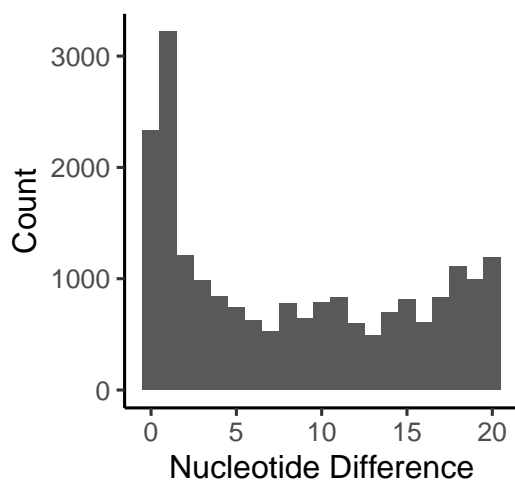
IGHV3-33*08

1743 sequences assigned
247 (14.2%) exact matches, in which:
173 unique CDR3
6 unique J



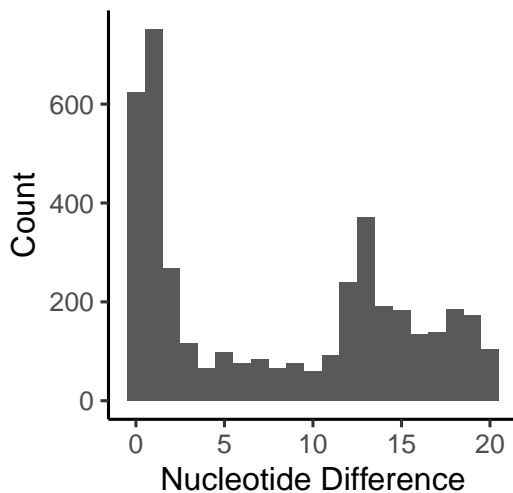
IGHV3-23*01_04

32418 sequences assigned
2334 (7.2%) exact matches, in which:
1277 unique CDR3
6 unique J



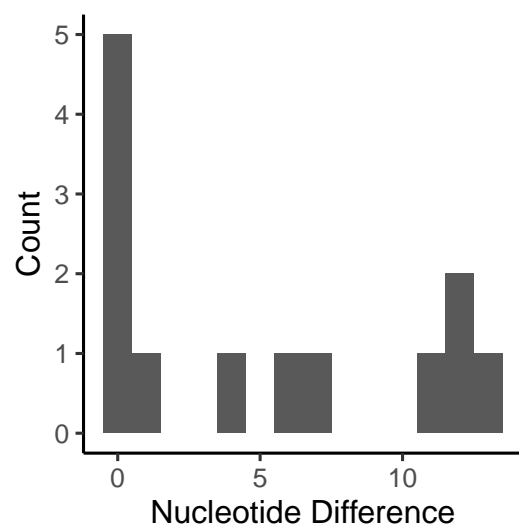
IGHV3-30*18

8098 sequences assigned
625 (7.7%) exact matches, in which:
336 unique CDR3
6 unique J



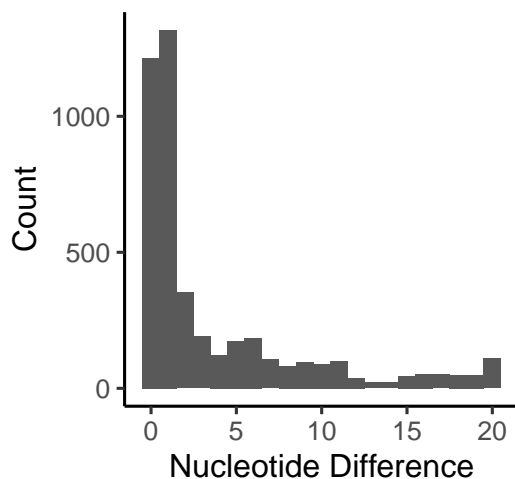
IGHV3-35*01

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



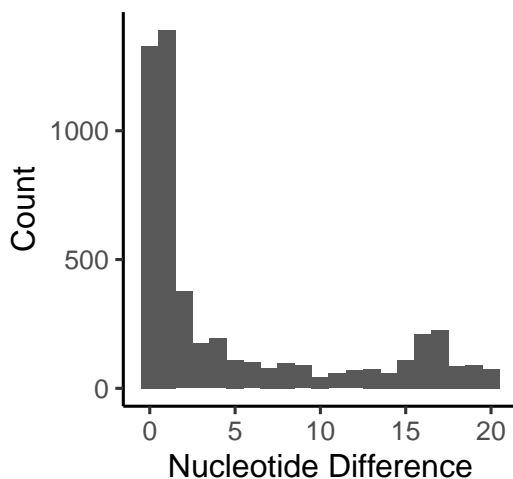
IGHV3-30-3*01

6015 sequences assigned
1214 (20.2%) exact matches, in which:
793 unique CDR3
6 unique J



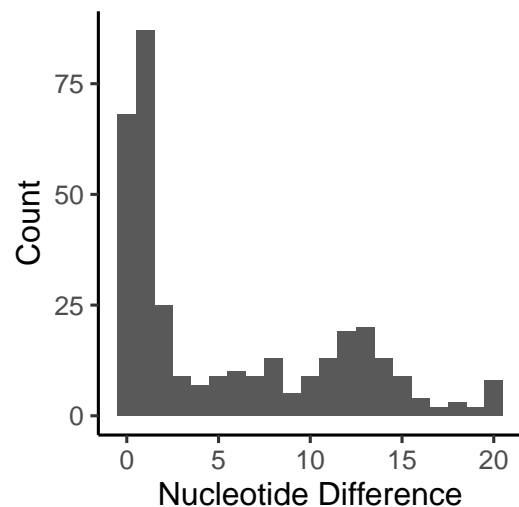
IGHV3-33*01

10703 sequences assigned
1329 (12.4%) exact matches, in which:
829 unique CDR3
6 unique J



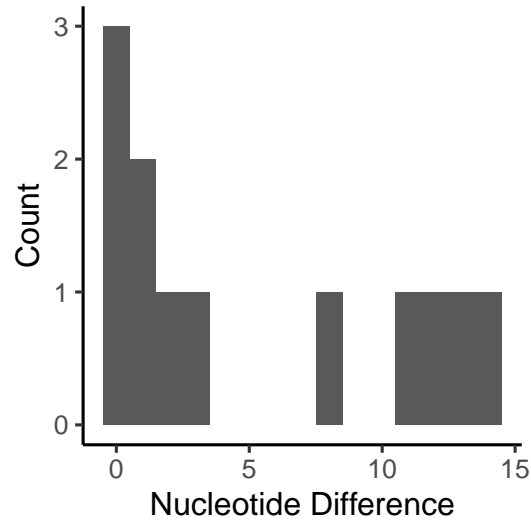
IGHV3-43*01

388 sequences assigned
68 (17.5%) exact matches, in which:
39 unique CDR3
5 unique J



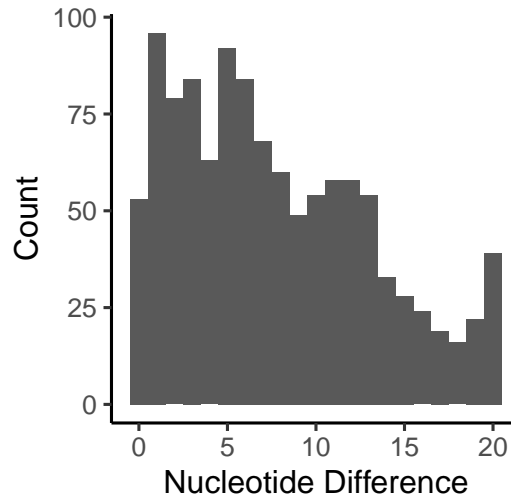
IGHV3-47*02

12 sequences assigned
3 (25%) exact matches, in which:
2 unique CDR3
1 unique J



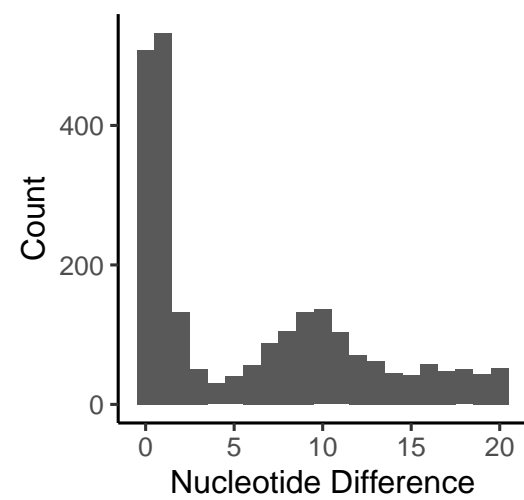
IGHV3-48*04

1860 sequences assigned
53 (2.8%) exact matches, in which:
46 unique CDR3
4 unique J



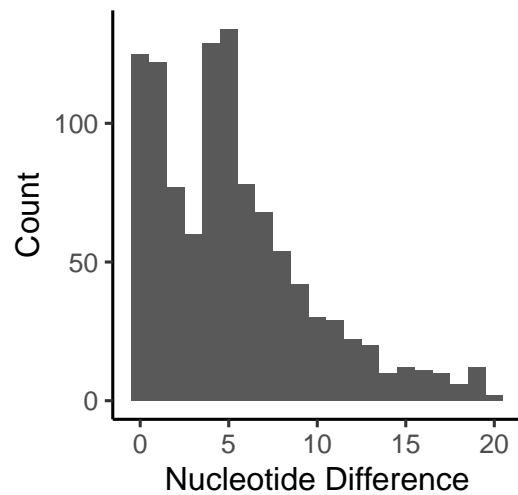
IGHV3-53*01_02

3226 sequences assigned
508 (15.7%) exact matches, in which:
327 unique CDR3
6 unique J



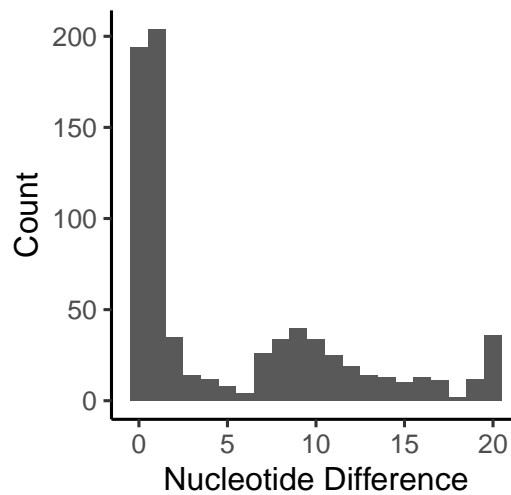
IGHV3-48*01

1211 sequences assigned
125 (10.3%) exact matches, in which:
111 unique CDR3
4 unique J



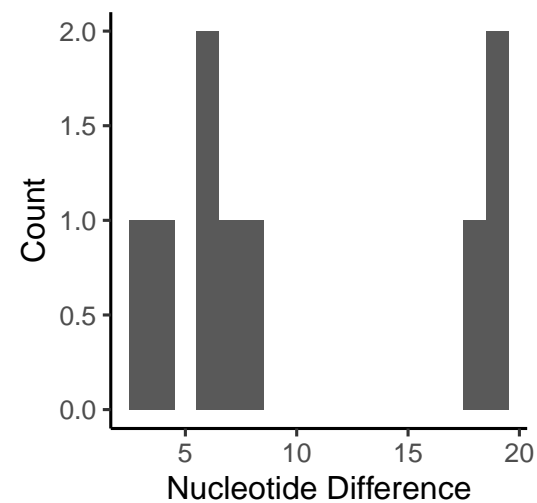
IGHV3-49*03_05

1293 sequences assigned
194 (15%) exact matches, in which:
118 unique CDR3
6 unique J



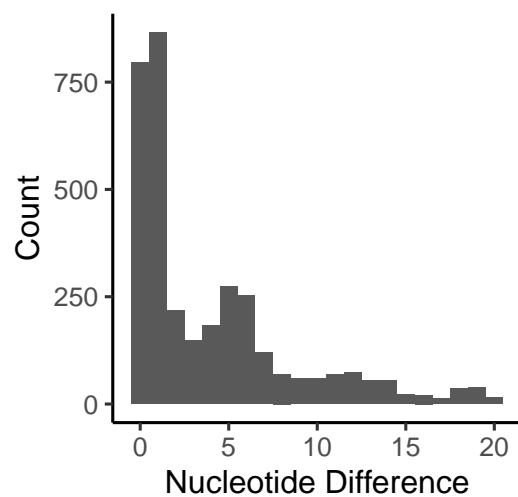
IGHV3-64*04

14 sequences assigned
No exact matches.



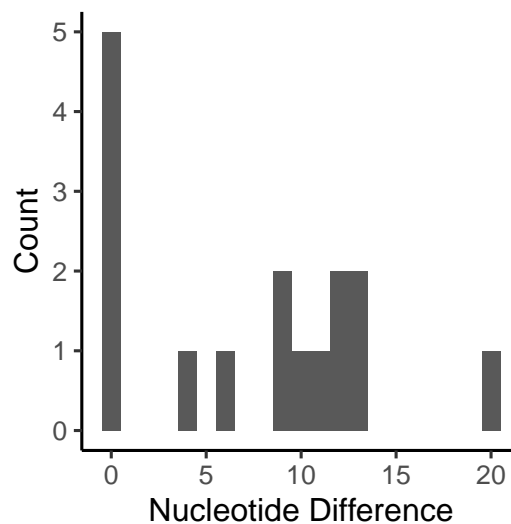
IGHV3-48*02

5824 sequences assigned
796 (13.7%) exact matches, in which:
496 unique CDR3
6 unique J



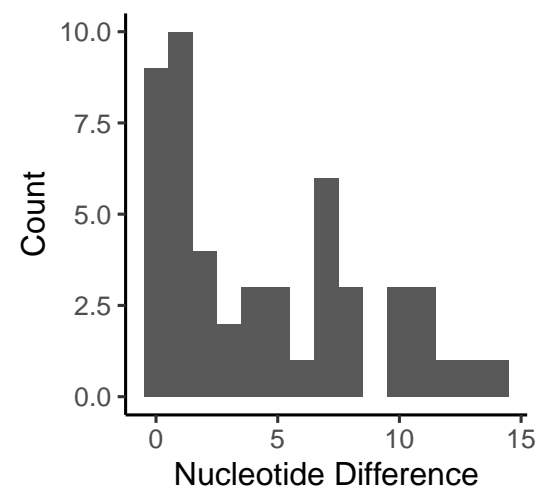
IGHV3-52*01_03

16 sequences assigned
5 (31.2%) exact matches, in which:
3 unique CDR3
2 unique J



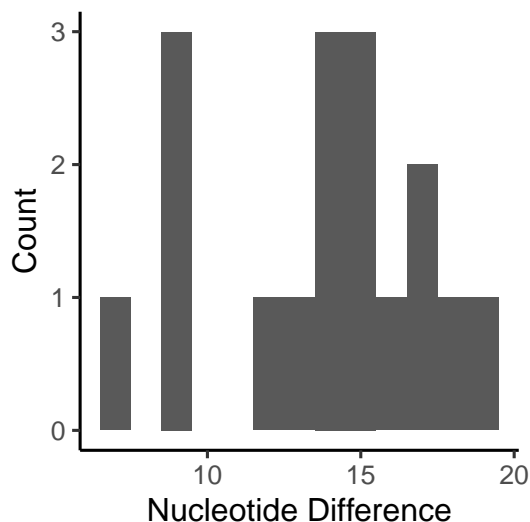
IGHV3-64*02_07

52 sequences assigned
9 (17.3%) exact matches, in which:
5 unique CDR3
3 unique J



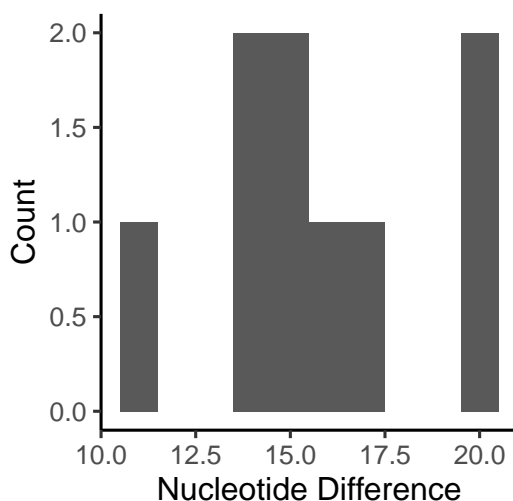
IGHV3-66*01

35 sequences assigned
No exact matches.



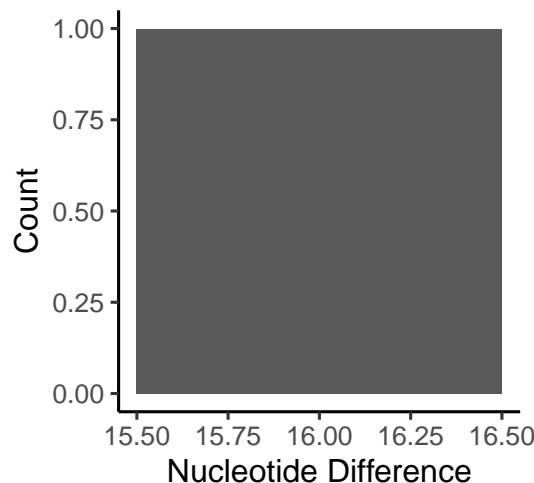
IGHV3-66*04

12 sequences assigned
No exact matches.



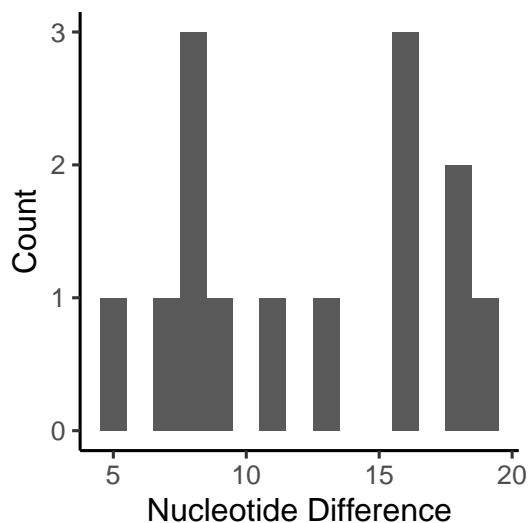
IGHV3-71*01_04

23 sequences assigned
No exact matches.



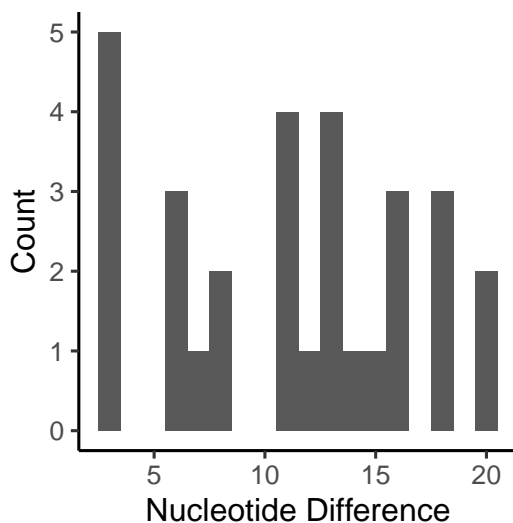
IGHV3-66*02

21 sequences assigned
No exact matches.



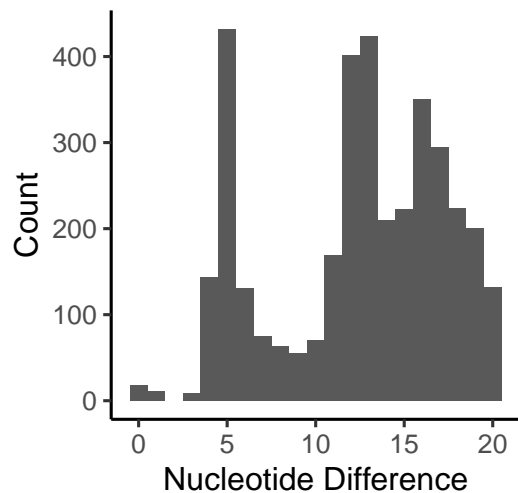
IGHV3-69-1*01

56 sequences assigned
No exact matches.



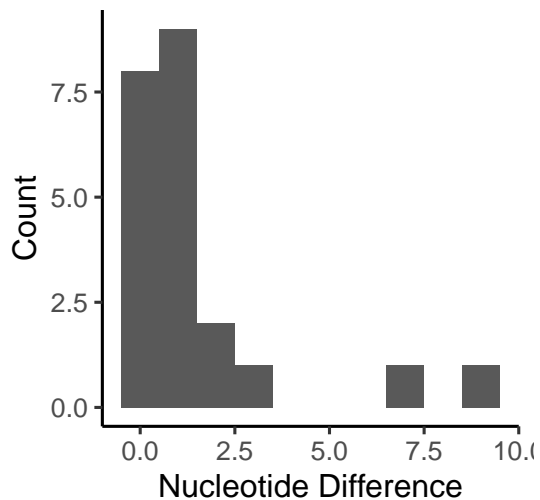
IGHV3-72*01

4998 sequences assigned
18 (0.4%) exact matches, in which:
15 unique CDR3
4 unique J



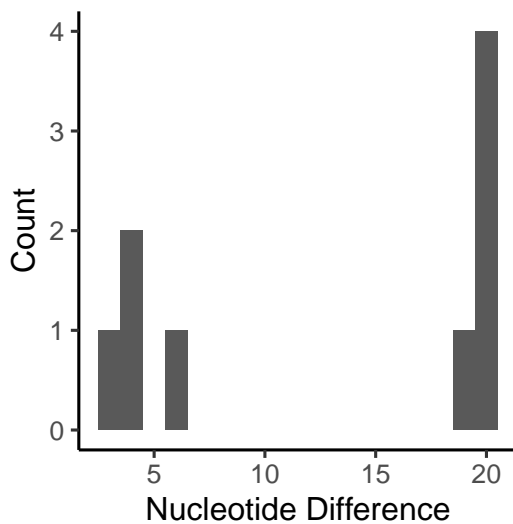
IGHV3-66*03

28 sequences assigned
8 (28.6%) exact matches, in which:
8 unique CDR3
3 unique J



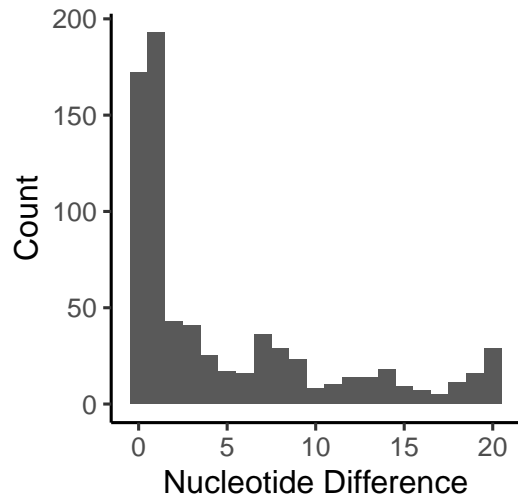
IGHV3-69-1*02

16 sequences assigned
No exact matches.



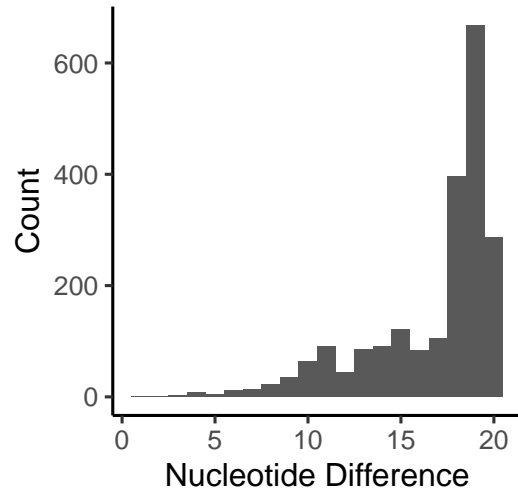
IGHV3-73*01_02

3476 sequences assigned
172 (4.9%) exact matches, in which:
115 unique CDR3
5 unique J



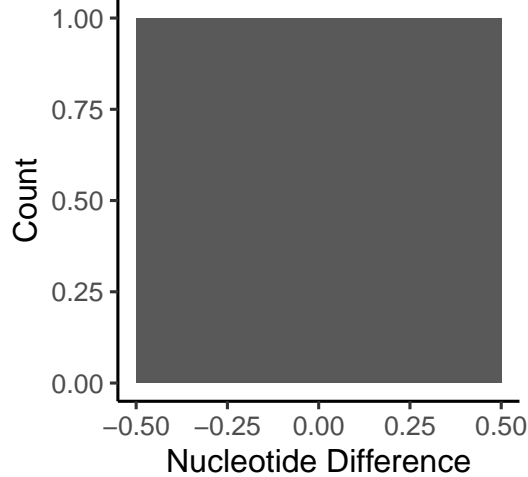
IGHV3-74*03

3840 sequences assigned
No exact matches.



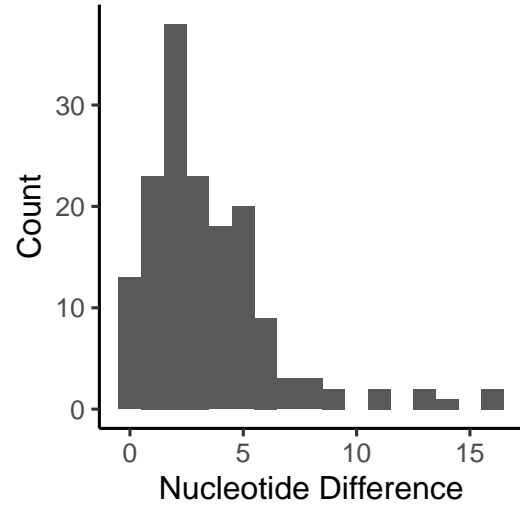
IGHV3-64D*09

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



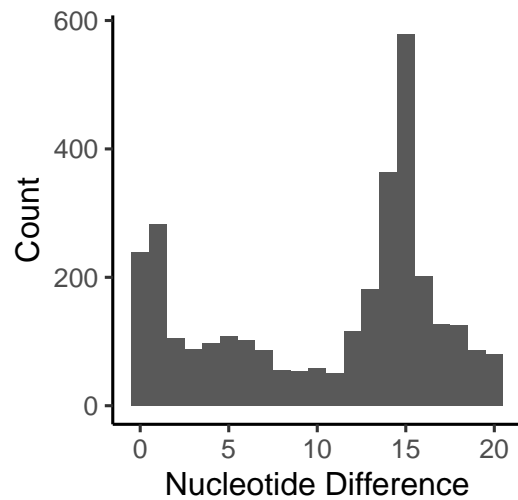
IGHV4-4*02_03

167 sequences assigned
13 (7.8%) exact matches, in which:
13 unique CDR3
4 unique J



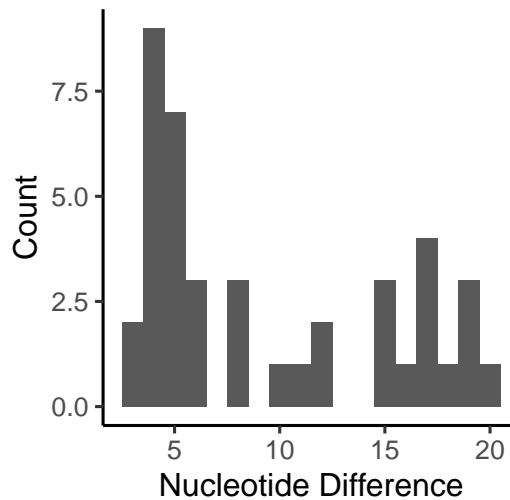
IGHV3-74*01_02

3947 sequences assigned
239 (6.1%) exact matches, in which:
158 unique CDR3
6 unique J



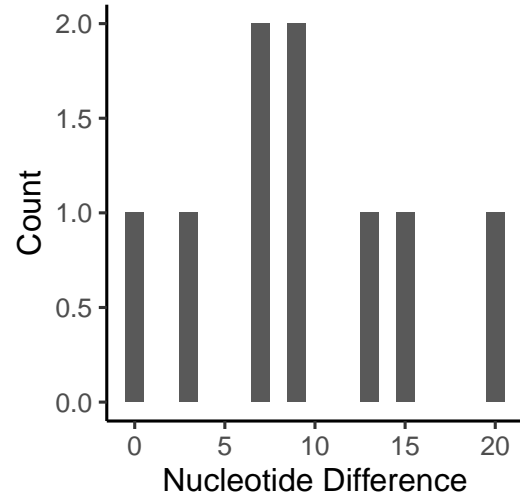
IGHV3-NL1*01

80 sequences assigned
No exact matches.



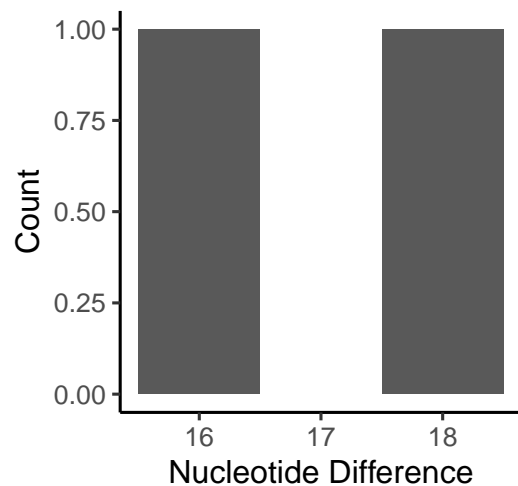
IGHV4-28*03

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



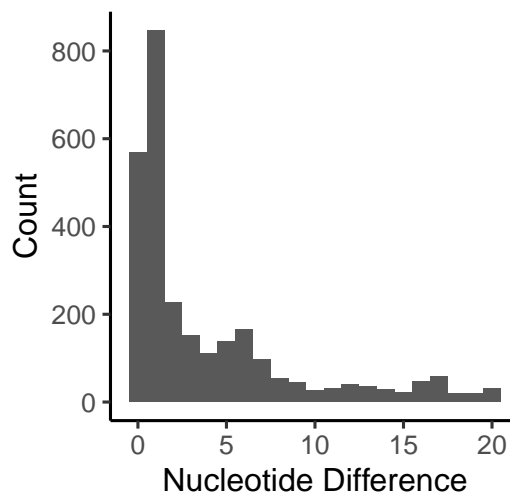
IGHV3-43D*04

3 sequences assigned
No exact matches.



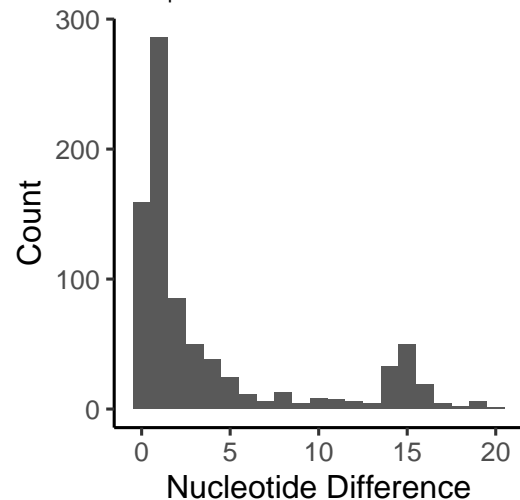
IGHV4-4*07

3662 sequences assigned
568 (15.5%) exact matches, in which:
421 unique CDR3
6 unique J



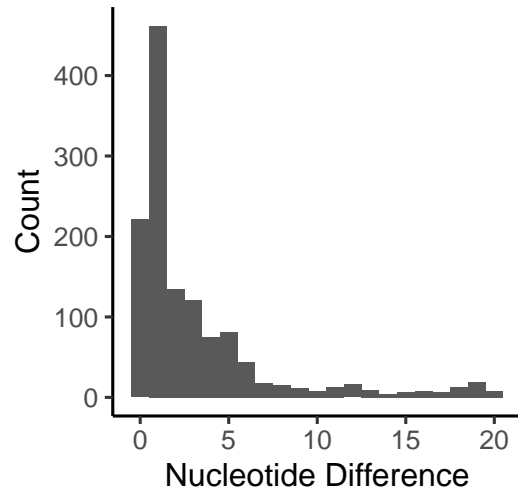
IGHV4-30-2*01

1474 sequences assigned
159 (10.8%) exact matches, in which:
84 unique CDR3
6 unique J



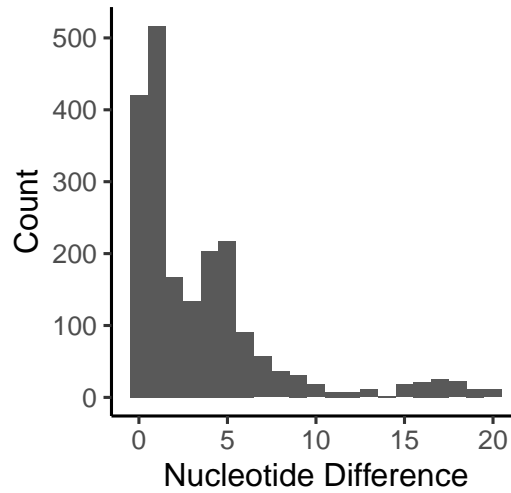
IGHV4-30-4*01

2494 sequences assigned
221 (8.9%) exact matches, in which:
143 unique CDR3
6 unique J



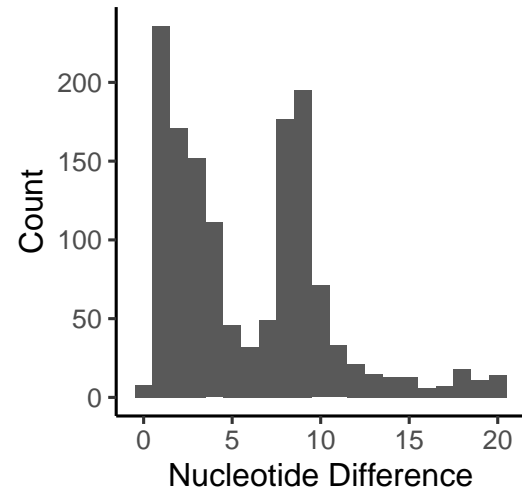
IGHV4-31*02

2177 sequences assigned
421 (19.3%) exact matches, in which:
315 unique CDR3
6 unique J



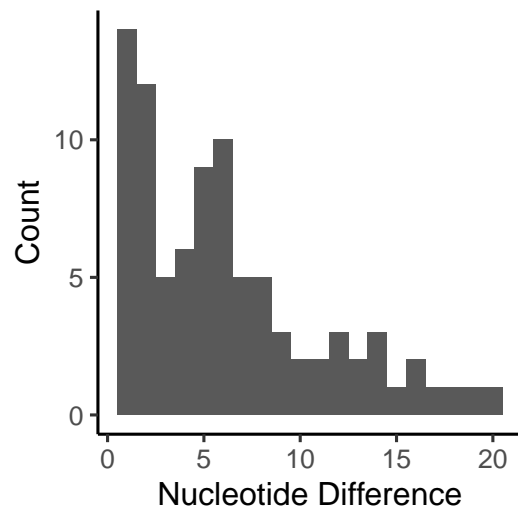
IGHV4-39*07

1668 sequences assigned
8 (0.5%) exact matches, in which:
8 unique CDR3
3 unique J



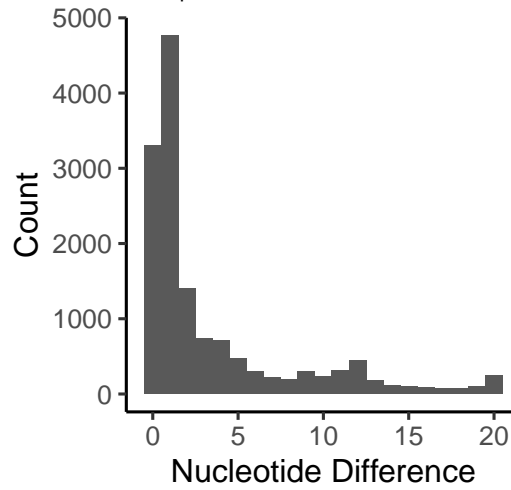
IGHV4-30-2*03

130 sequences assigned
No exact matches.



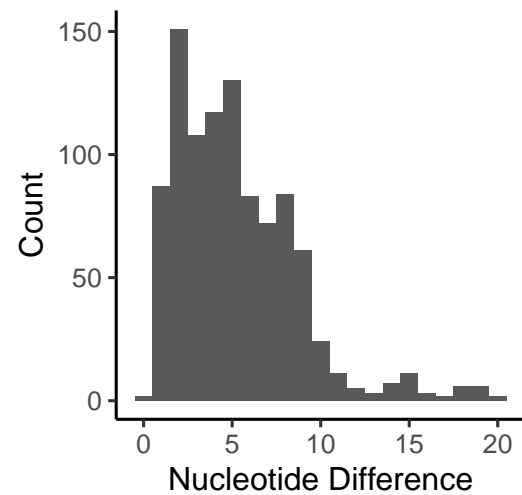
IGHV4-34*01_02

17520 sequences assigned
3300 (18.8%) exact matches, in which:
2019 unique CDR3
6 unique J



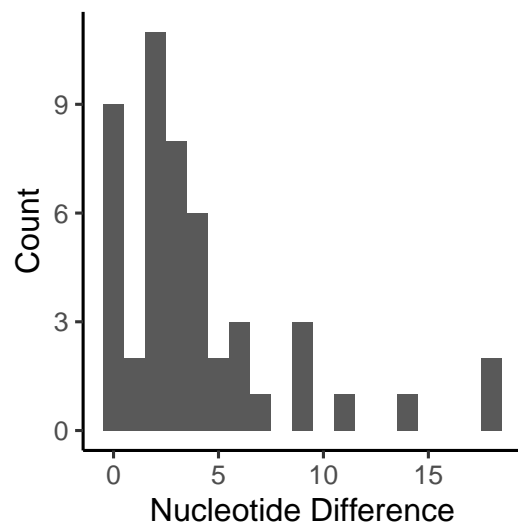
IGHV4-59*08

1060 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



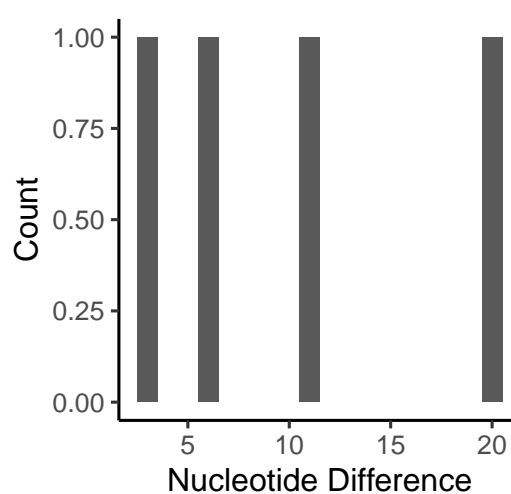
IGHV4-30-2*05

57 sequences assigned
9 (15.8%) exact matches, in which:
8 unique CDR3
3 unique J



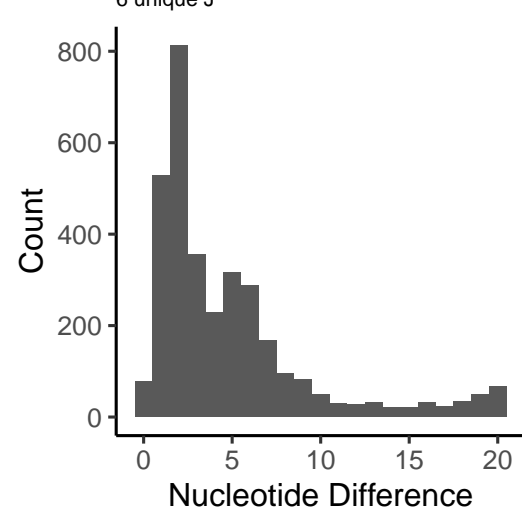
IGHV4-38-2*02

11 sequences assigned
No exact matches.



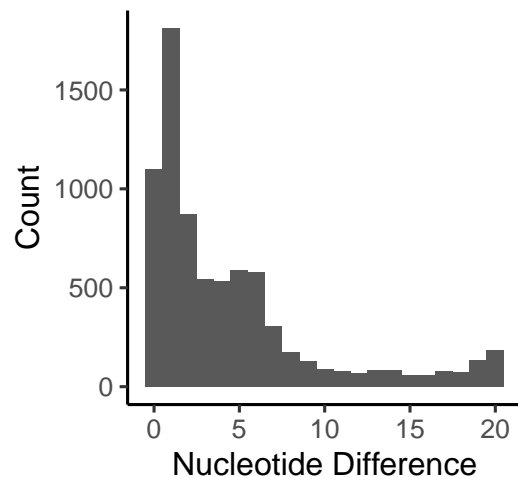
IGHV4-59*12

3625 sequences assigned
78 (2.2%) exact matches, in which:
75 unique CDR3
6 unique J



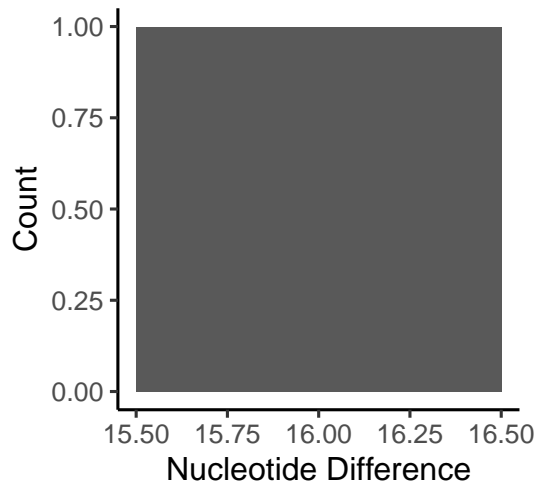
IGHV4–59*01_07

13794 sequences assigned
1102 (8%) exact matches, in which:
825 unique CDR3
6 unique J



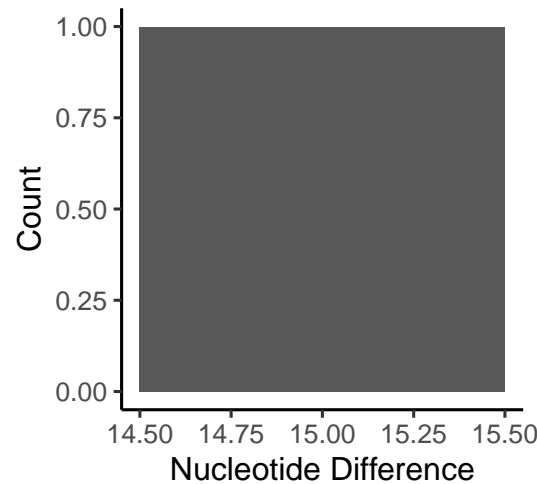
IGHV1/OR15–1*04

1 sequences assigned
No exact matches.



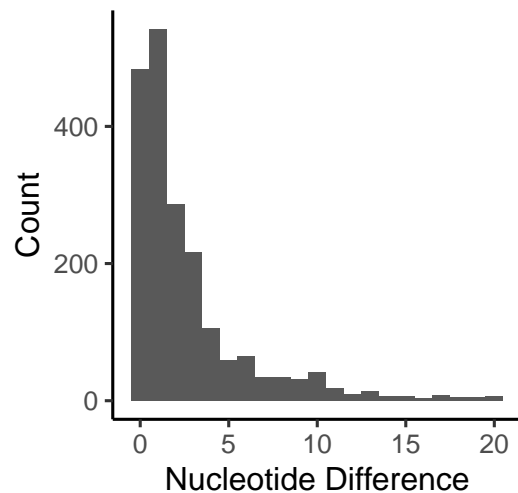
IGHV4/OR15–8*01

3 sequences assigned
No exact matches.



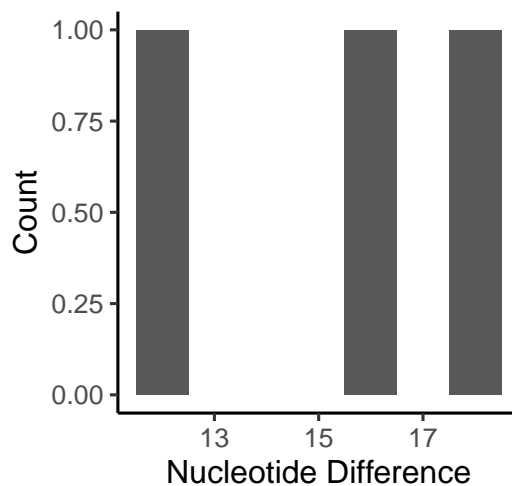
IGHV4–61*01

2937 sequences assigned
484 (16.5%) exact matches, in which:
380 unique CDR3
6 unique J



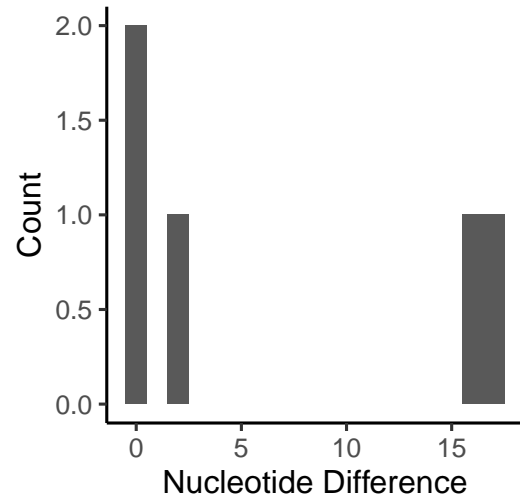
IGHV1/OR15–2*02_03

4 sequences assigned
No exact matches.



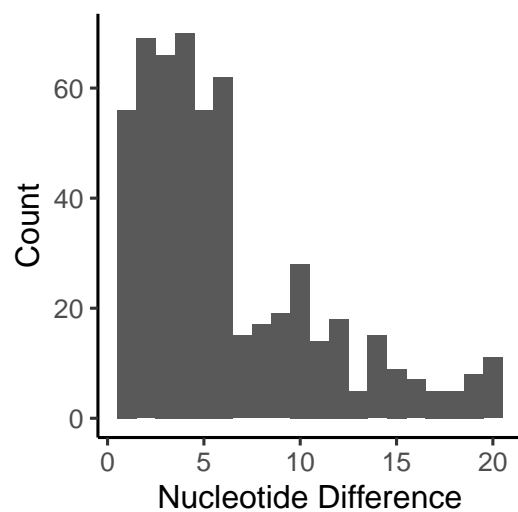
IGHV5–10–1*01_03

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
1 unique J



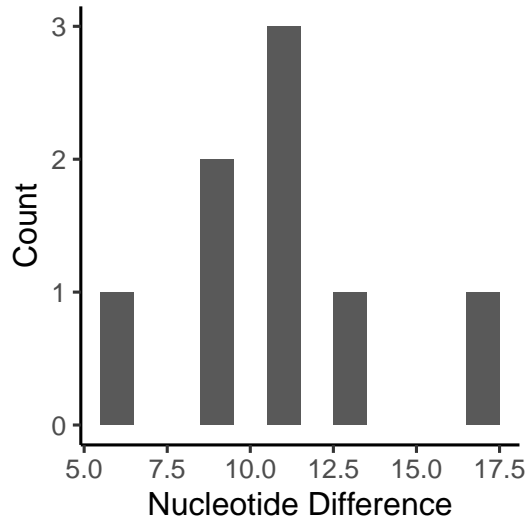
IGHV4–61*08

811 sequences assigned
No exact matches.



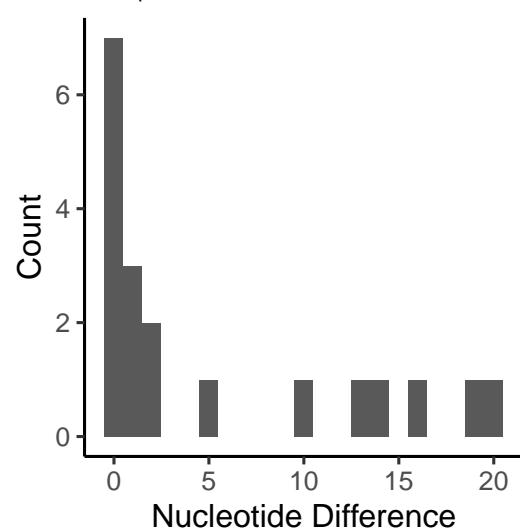
IGHV1/OR15–3*02

8 sequences assigned
No exact matches.



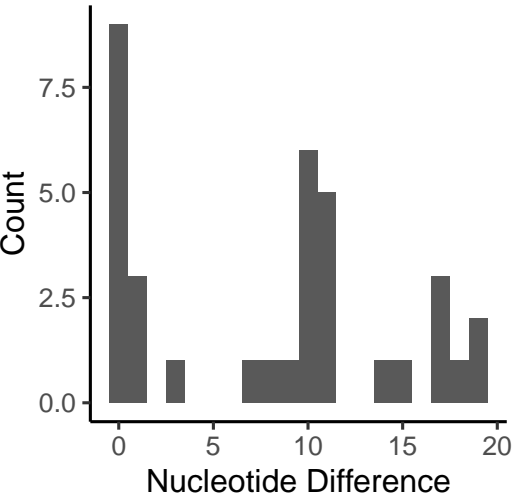
IGHV5–51*04

26 sequences assigned
7 (26.9%) exact matches, in which:
7 unique CDR3
4 unique J



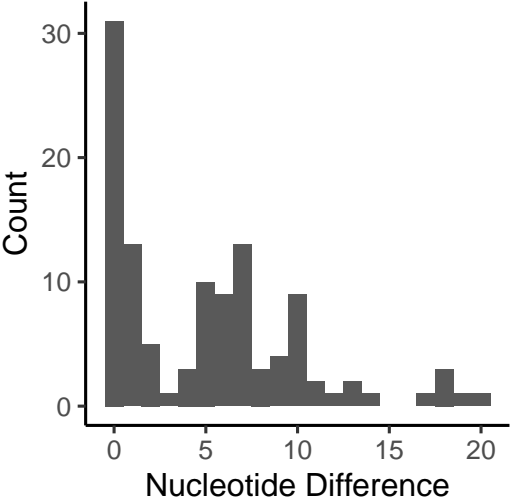
IGHV5–51*06

40 sequences assigned
9 (22.5%) exact matches, in which:
9 unique CDR3
4 unique J



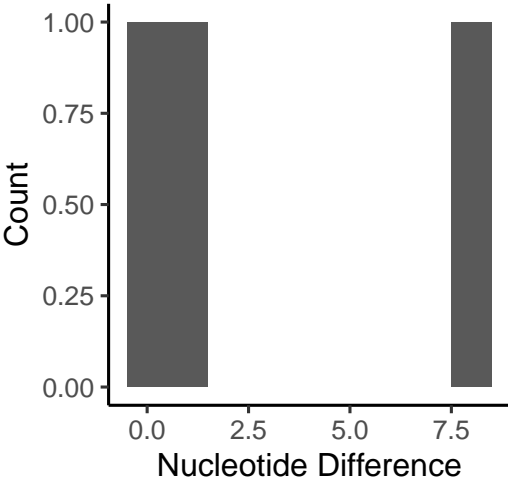
IGHV6–1*01_02_A315G

174 sequences assigned
31 (17.8%) exact matches, in which:
31 unique CDR3
6 unique J



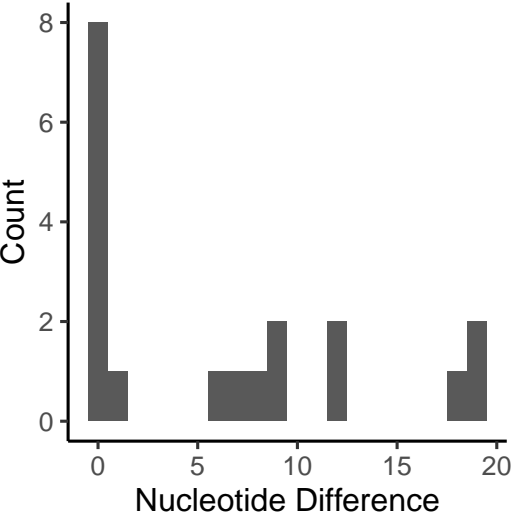
IGHV7–81*01

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



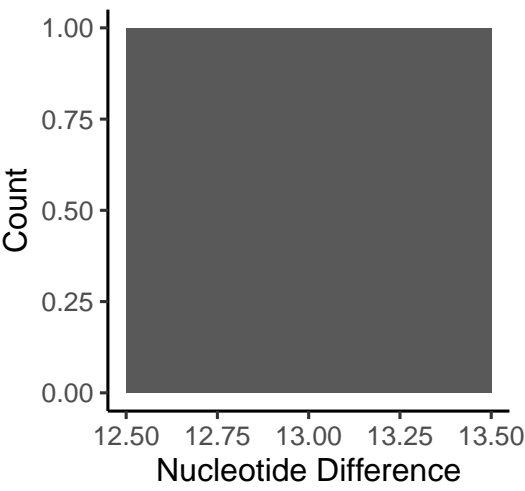
IGHV5–51*07

24 sequences assigned
8 (33.3%) exact matches, in which:
8 unique CDR3
2 unique J



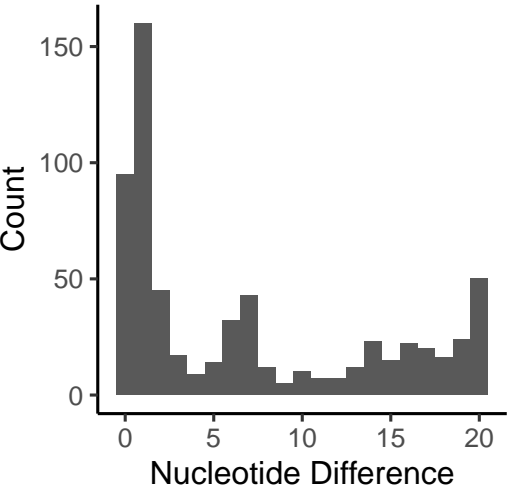
IGHV3/OR16–10*01_03

1 sequences assigned
No exact matches.



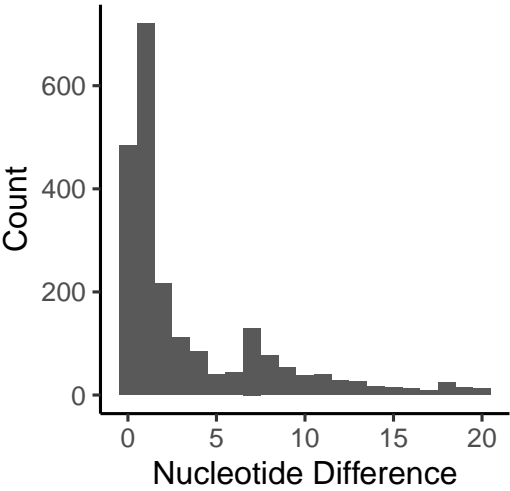
IGHV6–1*01_02

1221 sequences assigned
95 (7.8%) exact matches, in which:
66 unique CDR3
5 unique J



IGHV7–4–1*02

5435 sequences assigned
484 (8.9%) exact matches, in which:
356 unique CDR3
6 unique J



IGHV6-1*01_02_A315G

