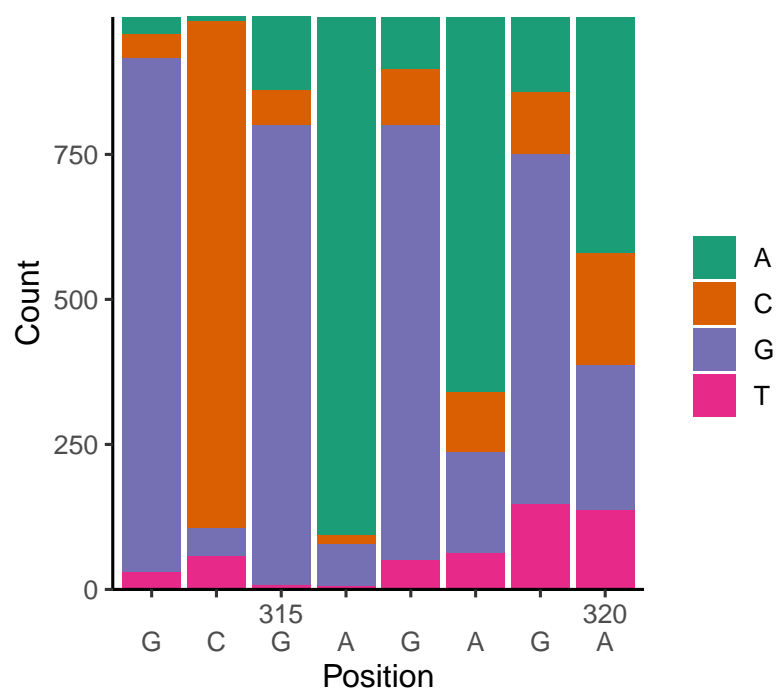
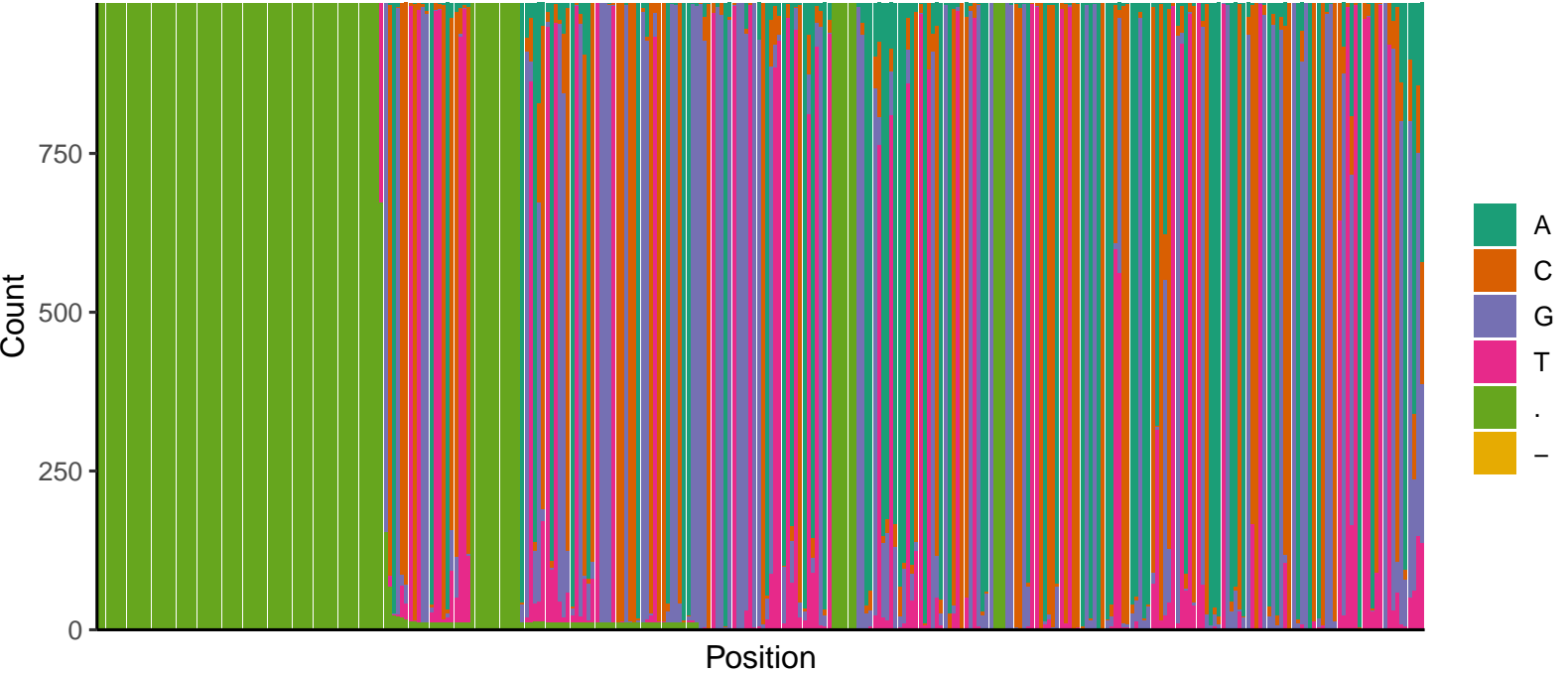


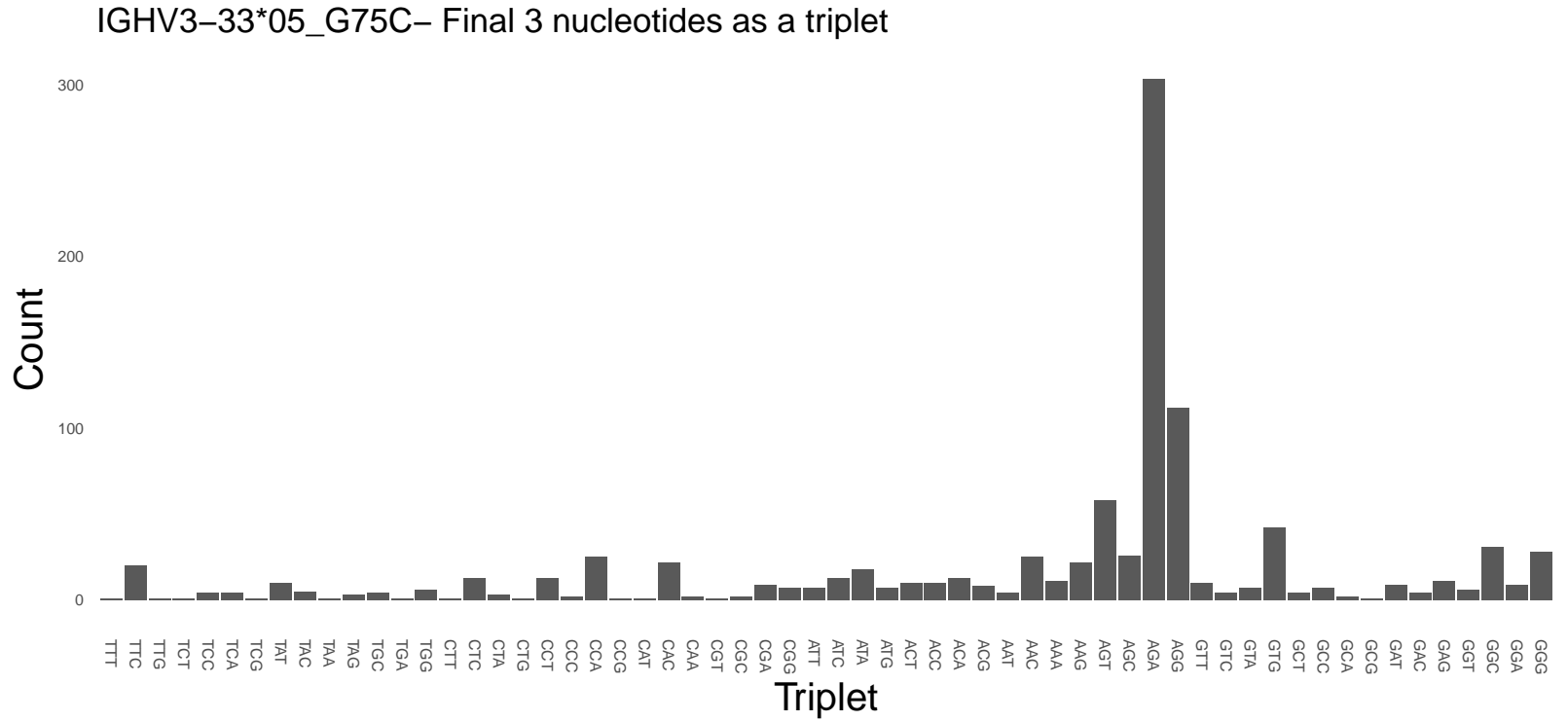
Gene IGHV3-33*05_G75C



Gene IGHV3-33*05_G75C

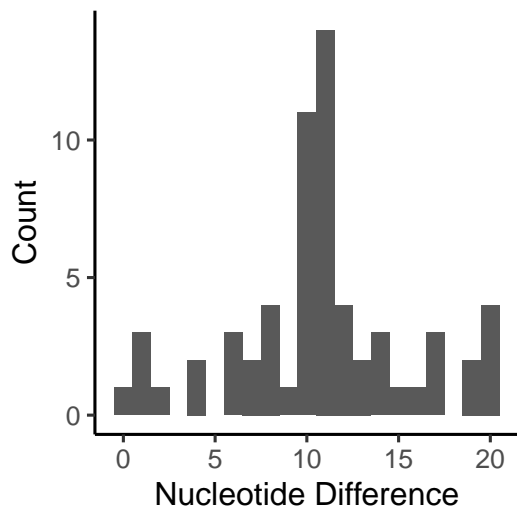


IGHV3-33*05_G75C- Final 3 nucleotides as a triplet



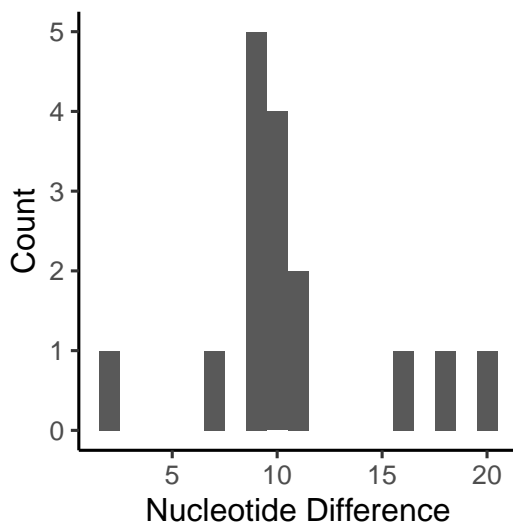
IGHV1-2*02

84 sequences assigned
1 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



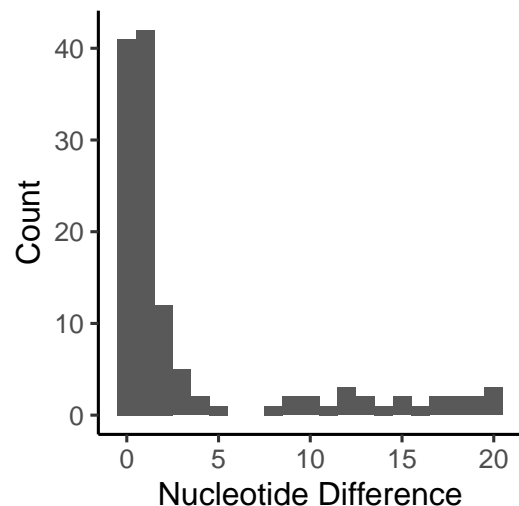
IGHV1-8*01

27 sequences assigned
No exact matches.



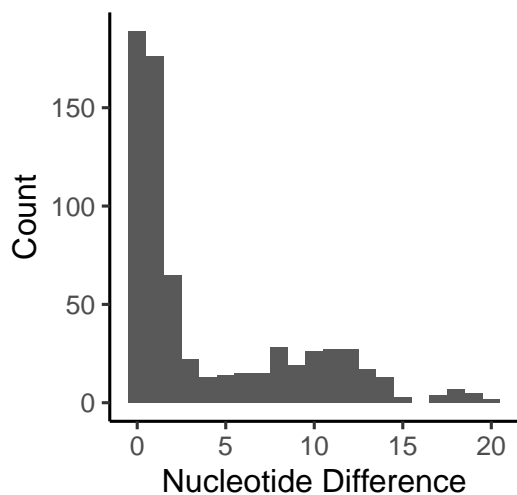
IGHV1-24*01

129 sequences assigned
41 (31.8%) exact matches, in which:
36 unique CDR3
4 unique J



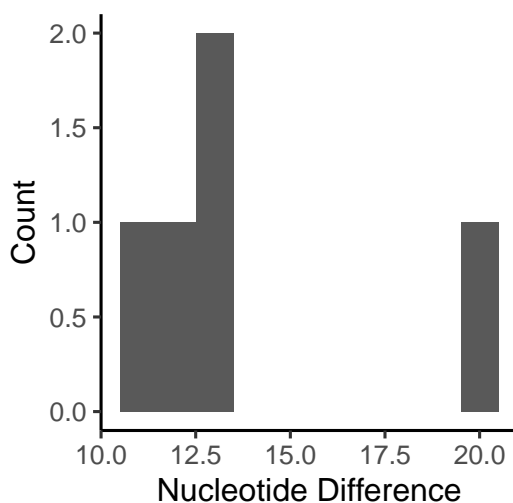
IGHV1-2*04

697 sequences assigned
189 (27.1%) exact matches, in which:
171 unique CDR3
6 unique J



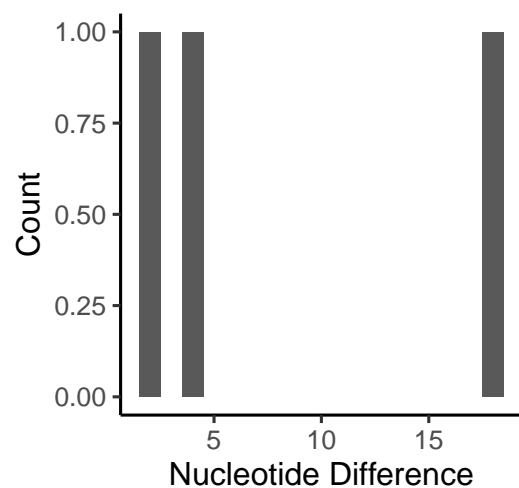
IGHV1-8*02

6 sequences assigned
No exact matches.



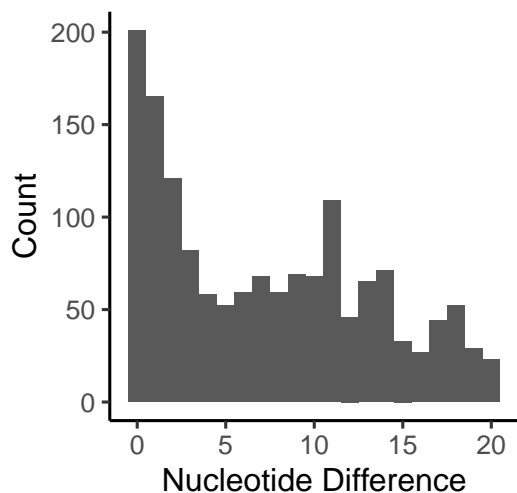
IGHV1-45*02

3 sequences assigned
No exact matches.



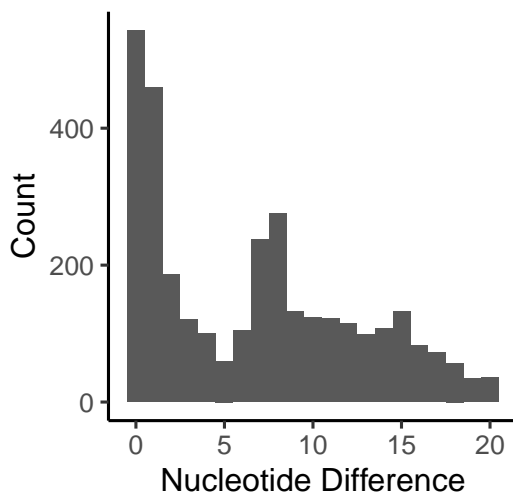
IGHV1-3*01_05

1680 sequences assigned
201 (12%) exact matches, in which:
189 unique CDR3
6 unique J



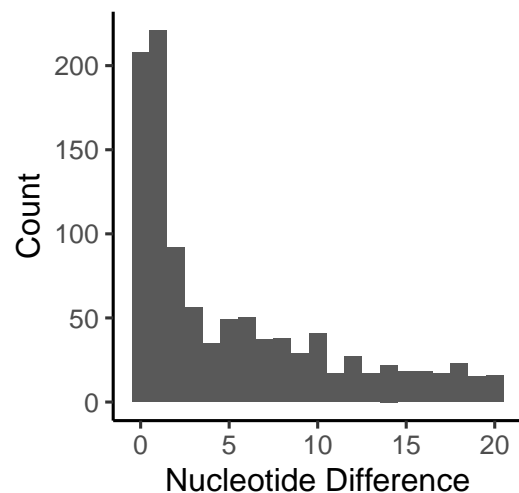
IGHV1-18*04

4248 sequences assigned
543 (12.8%) exact matches, in which:
501 unique CDR3
6 unique J



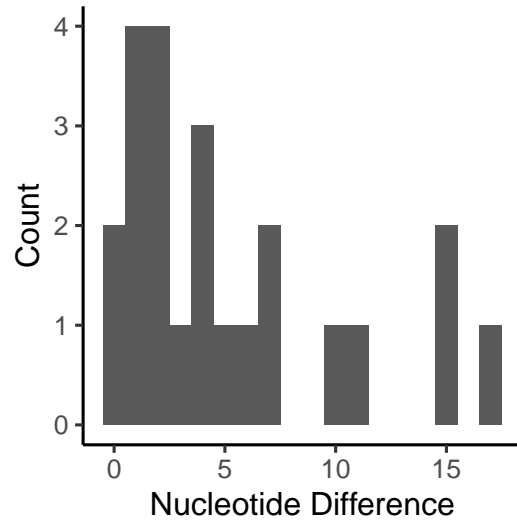
IGHV1-46*01

1417 sequences assigned
208 (14.7%) exact matches, in which:
194 unique CDR3
5 unique J



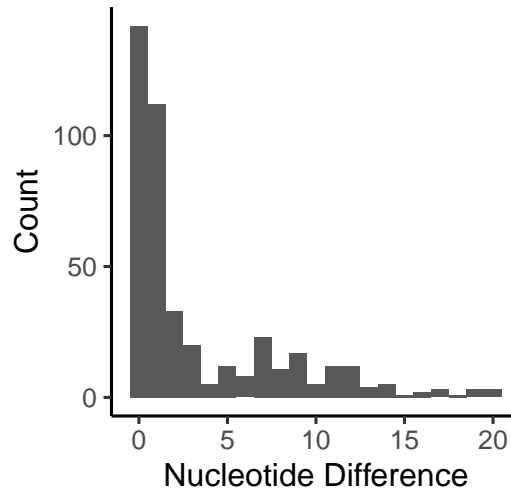
IGHV1-58*02

138 sequences assigned
2 (1.4%) exact matches, in which:
2 unique CDR3
2 unique J



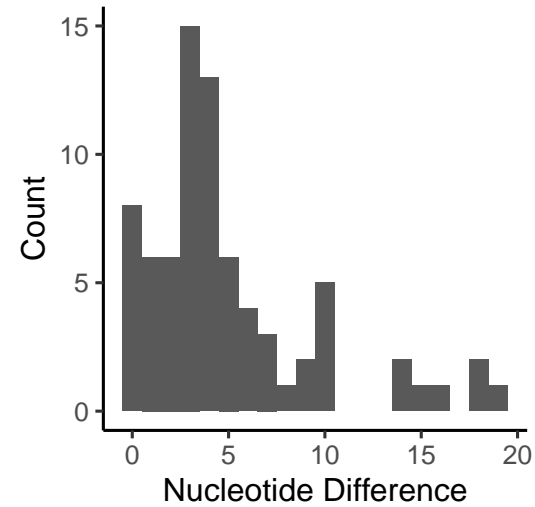
IGHV1-69*04_09

477 sequences assigned
142 (29.8%) exact matches, in which:
139 unique CDR3
5 unique J



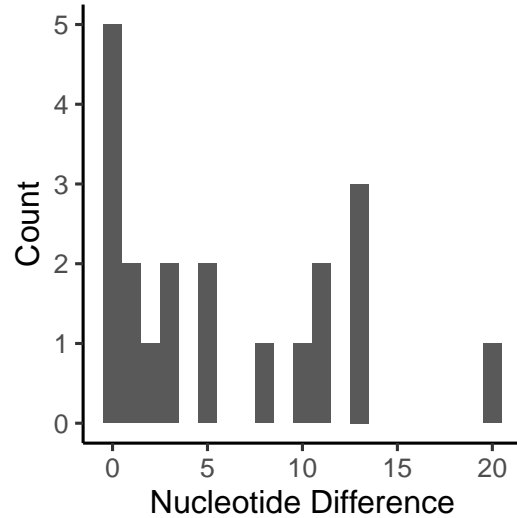
IGHV2-5*02

78 sequences assigned
8 (10.3%) exact matches, in which:
8 unique CDR3
4 unique J



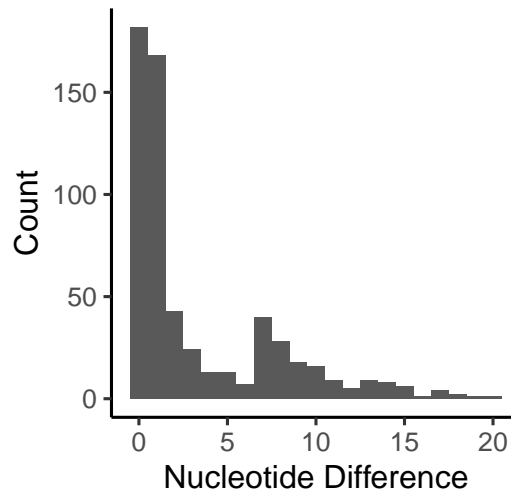
IGHV1-58*01_03

68 sequences assigned
5 (7.4%) exact matches, in which:
5 unique CDR3
4 unique J



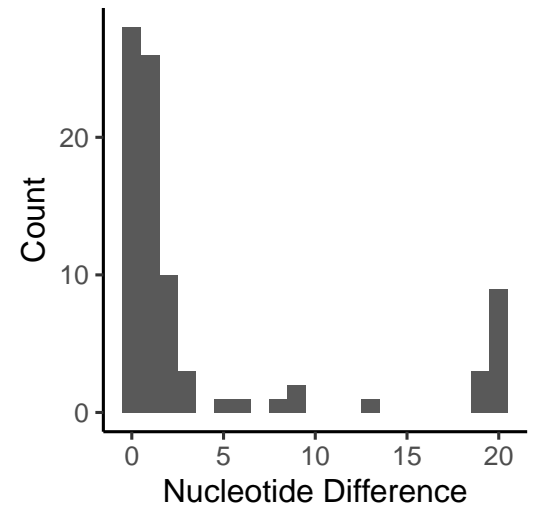
IGHV1-69*06_14

615 sequences assigned
182 (29.6%) exact matches, in which:
171 unique CDR3
6 unique J



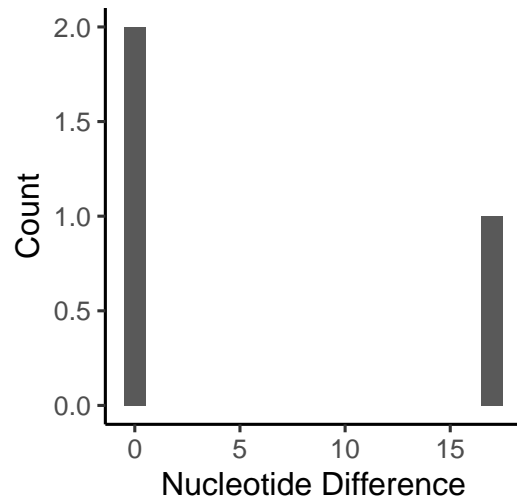
IGHV2-26*01

94 sequences assigned
28 (29.8%) exact matches, in which:
21 unique CDR3
4 unique J



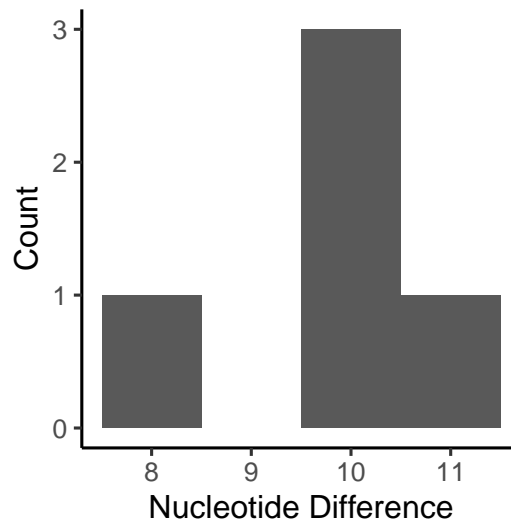
IGHV1-69-2*01

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



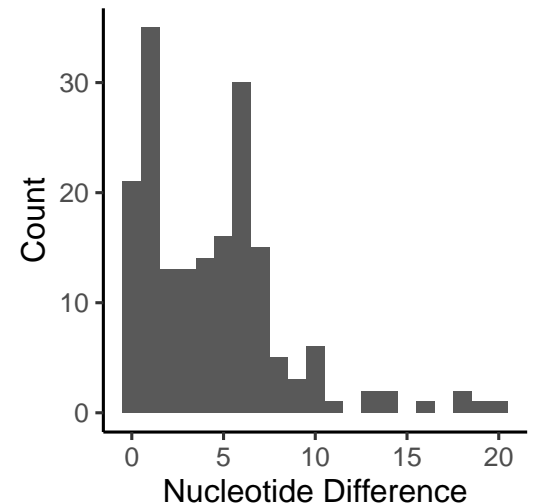
IGHV1-NL1*01

5 sequences assigned
No exact matches.



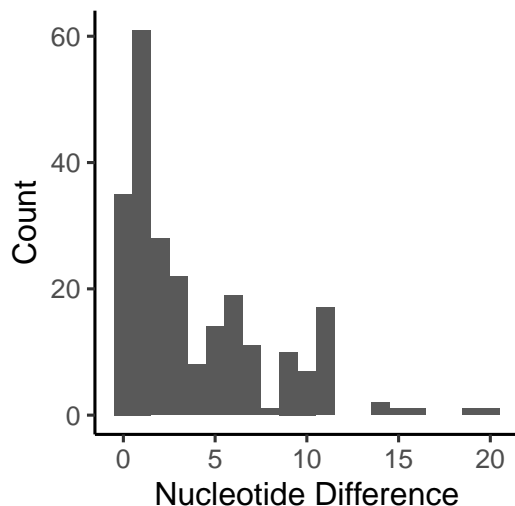
IGHV2-70*01

184 sequences assigned
21 (11.4%) exact matches, in which:
20 unique CDR3
4 unique J



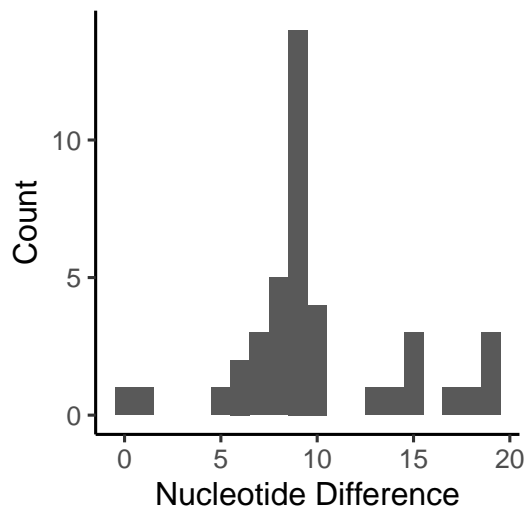
IGHV2-70*11_15

246 sequences assigned
35 (14.2%) exact matches, in which:
24 unique CDR3
4 unique J



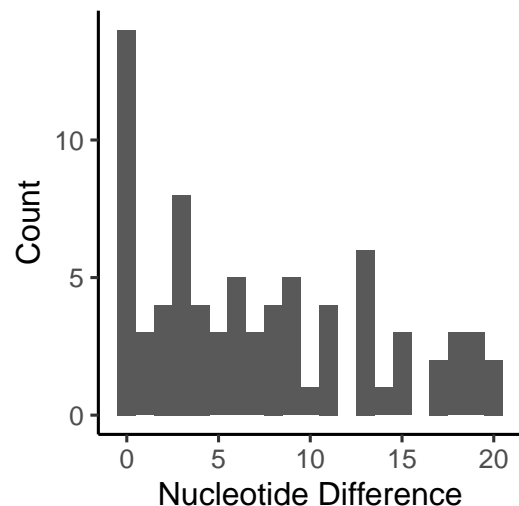
IGHV3-9*01

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



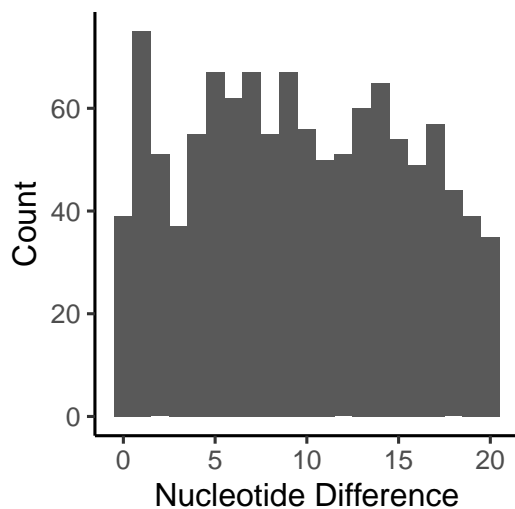
IGHV3-13*05

91 sequences assigned
14 (15.4%) exact matches, in which:
10 unique CDR3
3 unique J



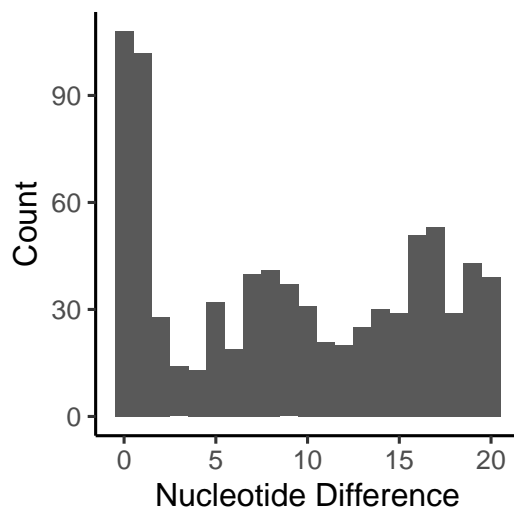
IGHV3-7*01

1428 sequences assigned
39 (2.7%) exact matches, in which:
39 unique CDR3
4 unique J



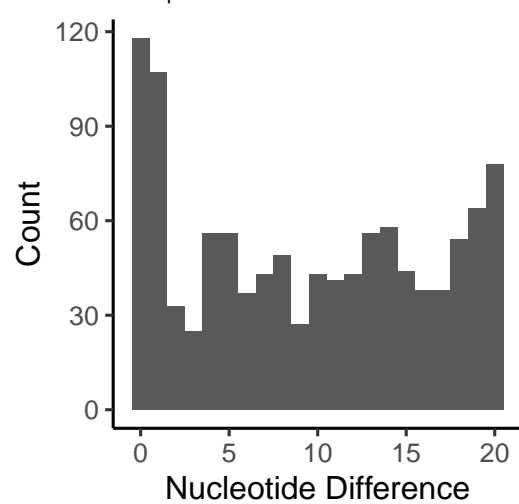
IGHV3-11*06

922 sequences assigned
108 (11.7%) exact matches, in which:
93 unique CDR3
6 unique J



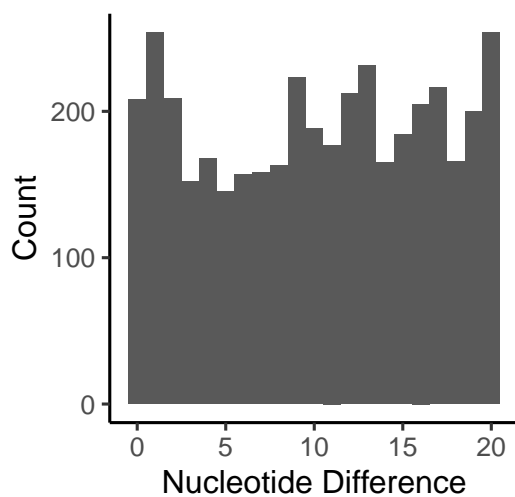
IGHV3-15*01_02

1550 sequences assigned
118 (7.6%) exact matches, in which:
80 unique CDR3
6 unique J



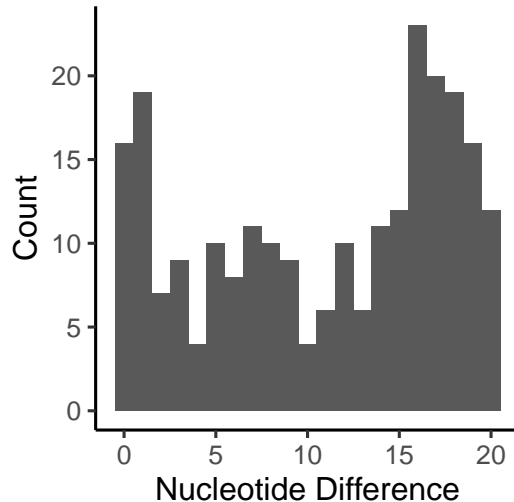
IGHV3-7*03

5475 sequences assigned
208 (3.8%) exact matches, in which:
161 unique CDR3
6 unique J



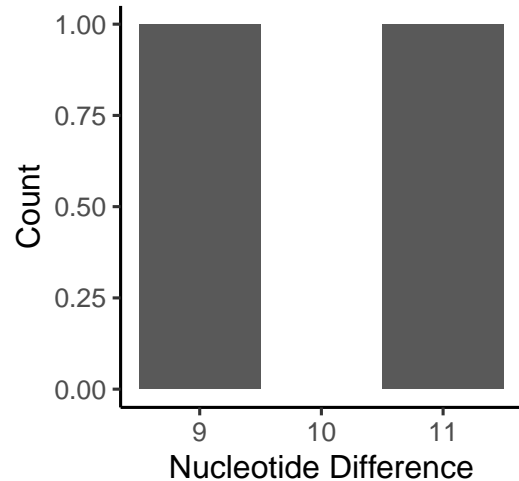
IGHV3-11*03_05

304 sequences assigned
16 (5.3%) exact matches, in which:
15 unique CDR3
3 unique J



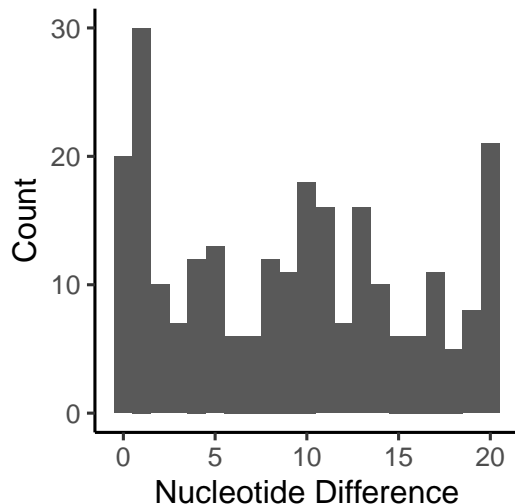
IGHV3-19*01

2 sequences assigned
No exact matches.



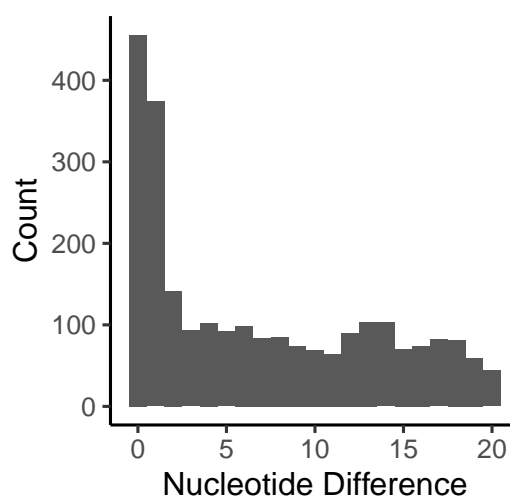
IGHV3-20*03_04

357 sequences assigned
20 (5.6%) exact matches, in which:
15 unique CDR3
5 unique J



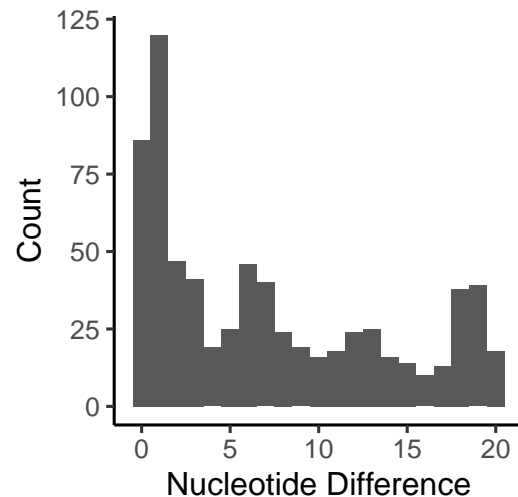
IGHV3-30-3*01

2924 sequences assigned
456 (15.6%) exact matches, in which:
358 unique CDR3
6 unique J



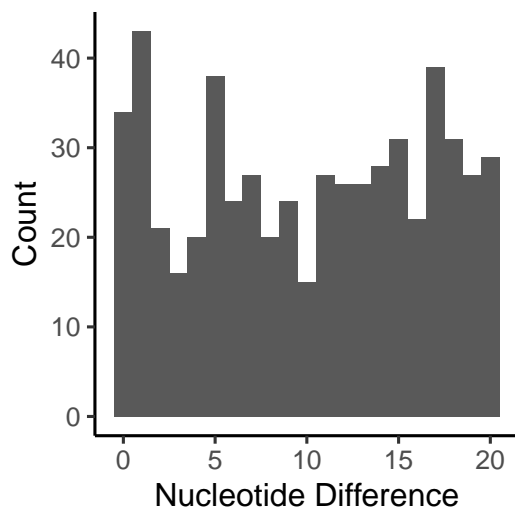
IGHV3-33*01

933 sequences assigned
86 (9.2%) exact matches, in which:
64 unique CDR3
6 unique J



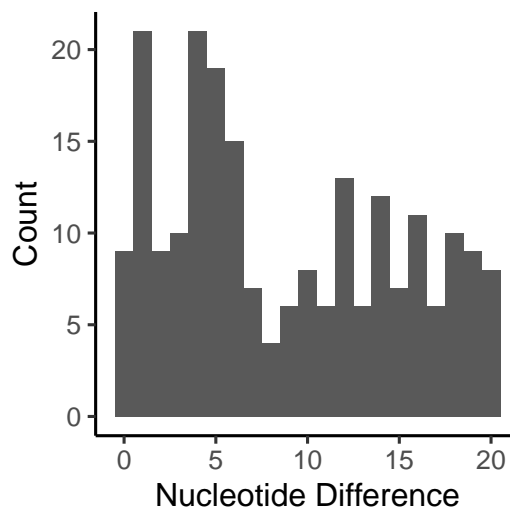
IGHV3-21*04

642 sequences assigned
34 (5.3%) exact matches, in which:
32 unique CDR3
5 unique J



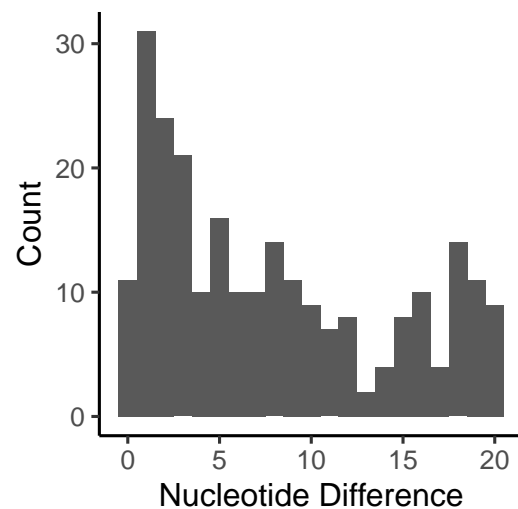
IGHV3-30-3*02

255 sequences assigned
9 (3.5%) exact matches, in which:
8 unique CDR3
3 unique J



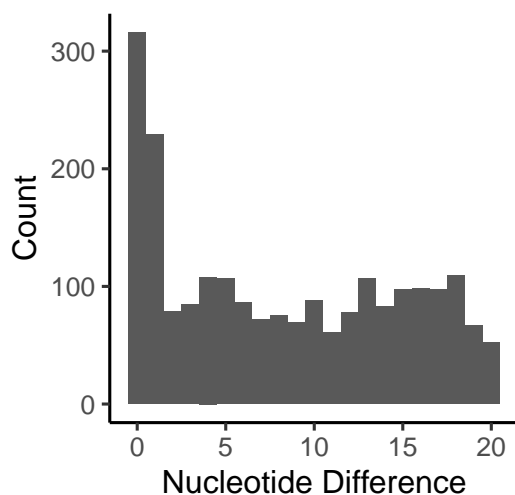
IGHV3-33*06

265 sequences assigned
11 (4.2%) exact matches, in which:
10 unique CDR3
4 unique J



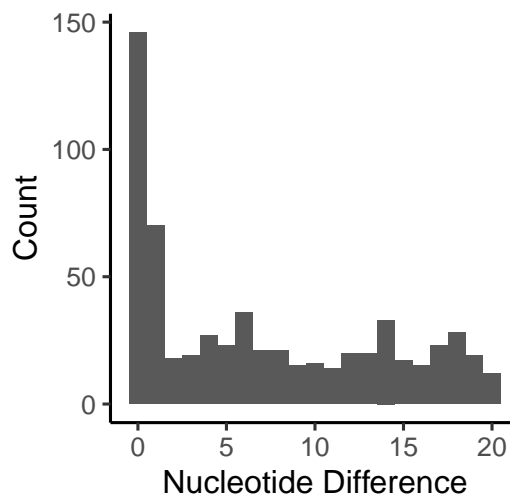
IGHV3-21*01_02

2376 sequences assigned
316 (13.3%) exact matches, in which:
262 unique CDR3
6 unique J



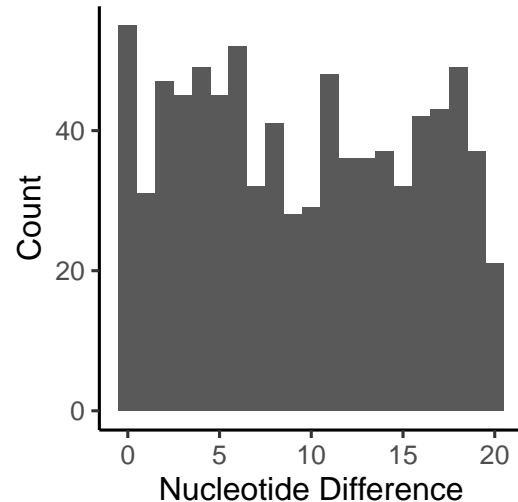
IGHV3-30*03

879 sequences assigned
146 (16.6%) exact matches, in which:
130 unique CDR3
5 unique J



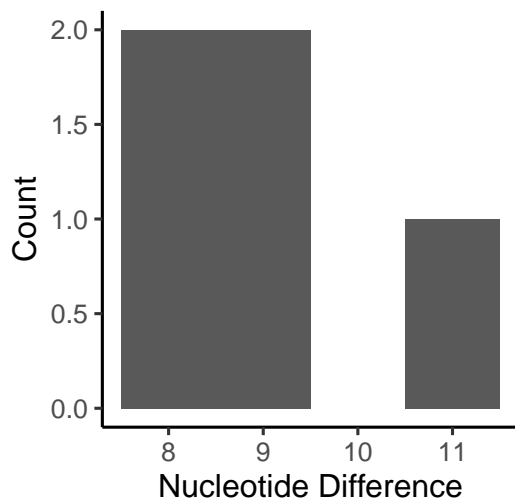
IGHV3-33*05_G75C

987 sequences assigned
55 (5.6%) exact matches, in which:
49 unique CDR3
4 unique J



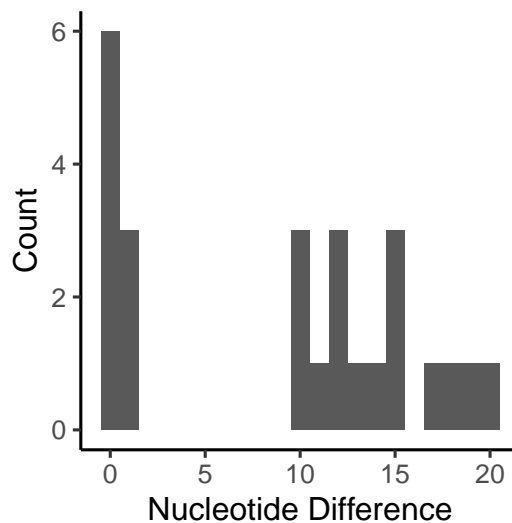
IGHV3-35*01

5 sequences assigned
No exact matches.



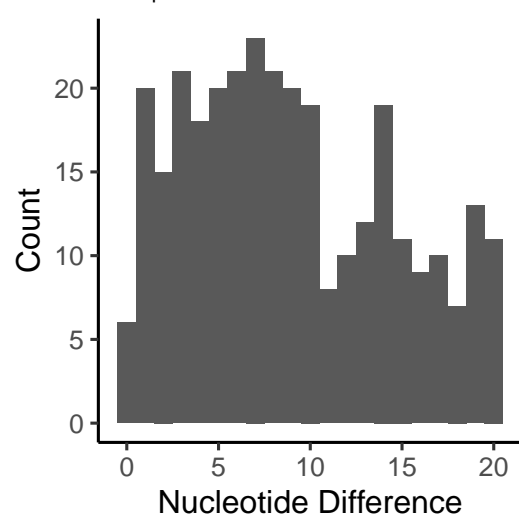
IGHV3-43*01

45 sequences assigned
6 (13.3%) exact matches, in which:
4 unique CDR3
2 unique J



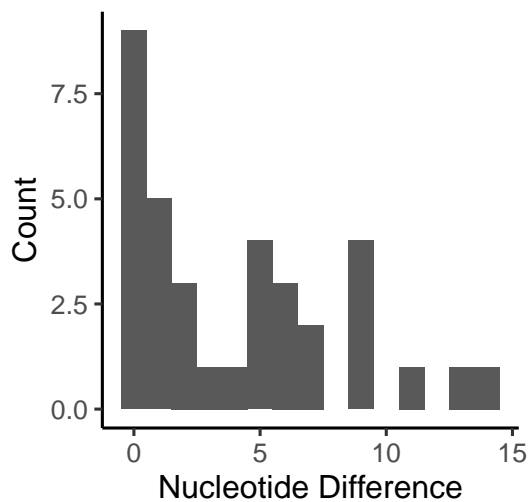
IGHV3-48*04

358 sequences assigned
6 (1.7%) exact matches, in which:
6 unique CDR3
4 unique J



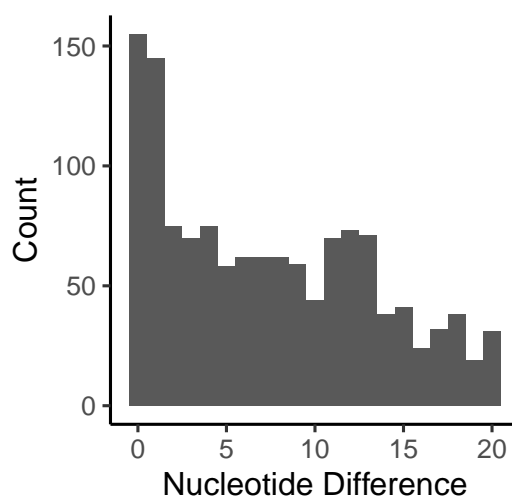
IGHV3-38-3*01

35 sequences assigned
9 (25.7%) exact matches, in which:
9 unique CDR3
2 unique J



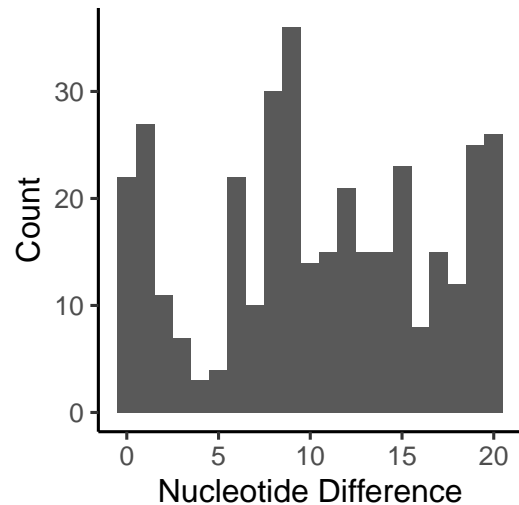
IGHV3-48*01

1429 sequences assigned
155 (10.8%) exact matches, in which:
117 unique CDR3
5 unique J



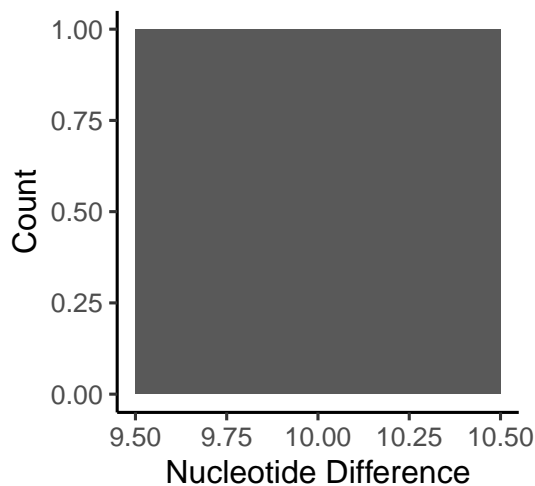
IGHV3-49*04

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



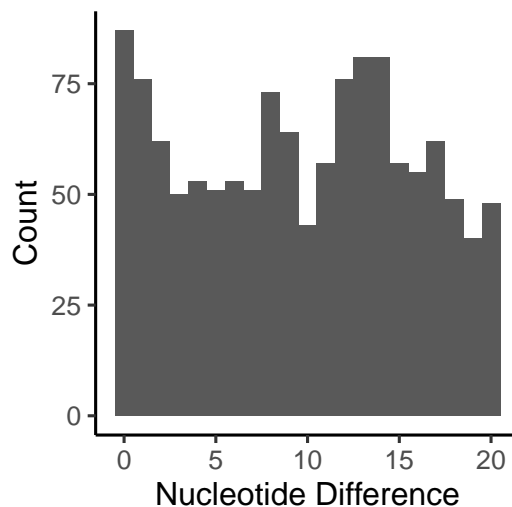
IGHV3-38*03

1 sequences assigned
No exact matches.



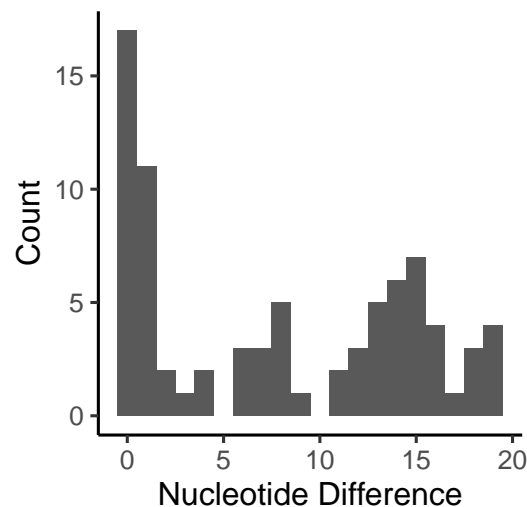
IGHV3-48*03

1524 sequences assigned
87 (5.7%) exact matches, in which:
68 unique CDR3
6 unique J



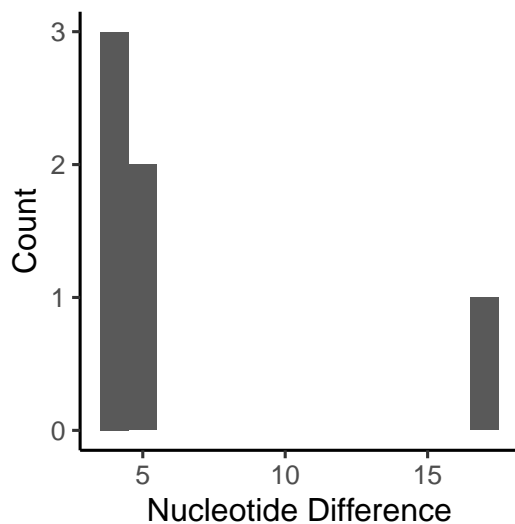
IGHV3-49*03_05

100 sequences assigned
17 (17%) exact matches, in which:
16 unique CDR3
3 unique J



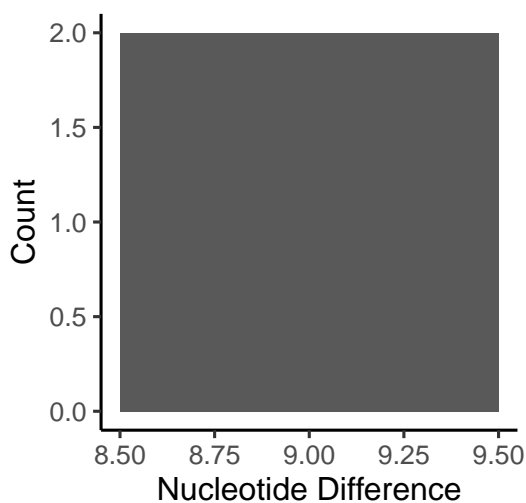
IGHV3-52*01_03

6 sequences assigned
No exact matches.



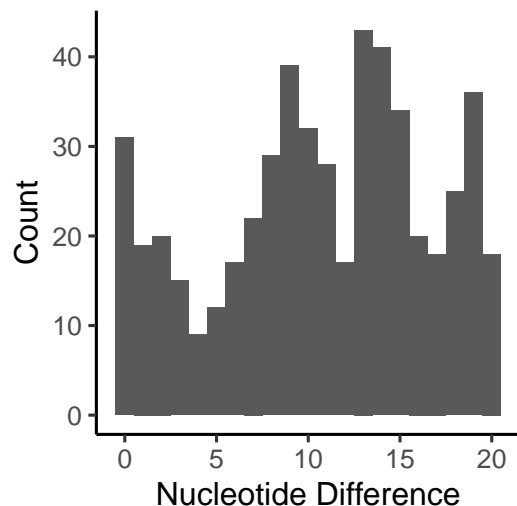
IGHV3-62*04

2 sequences assigned
No exact matches.



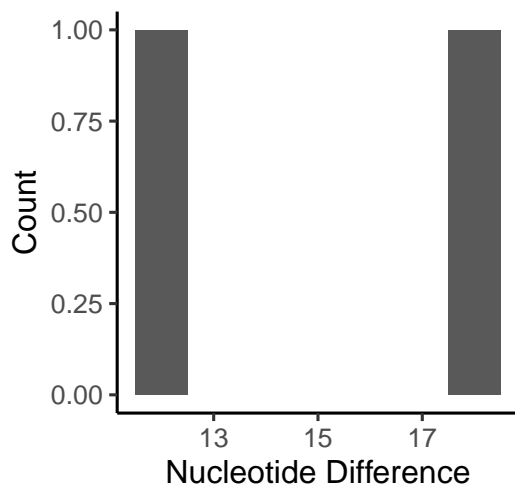
IGHV3-66*01

724 sequences assigned
31 (4.3%) exact matches, in which:
25 unique CDR3
4 unique J



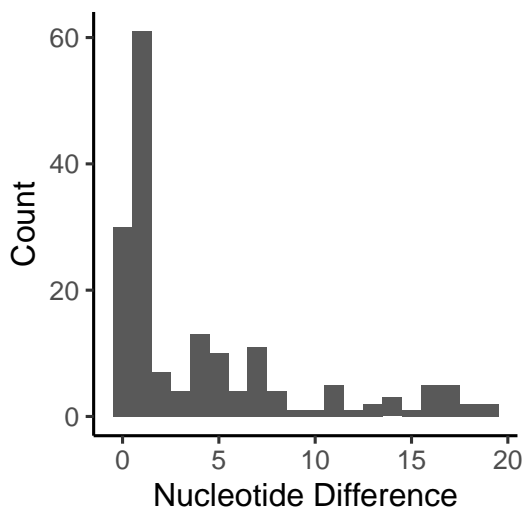
IGHV3-53*05

3 sequences assigned
No exact matches.



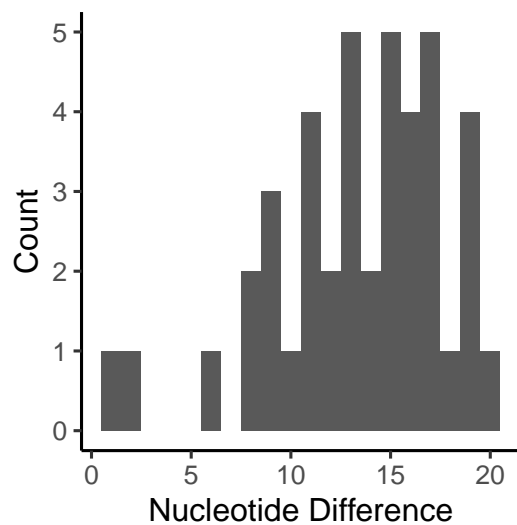
IGHV3-64*01

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



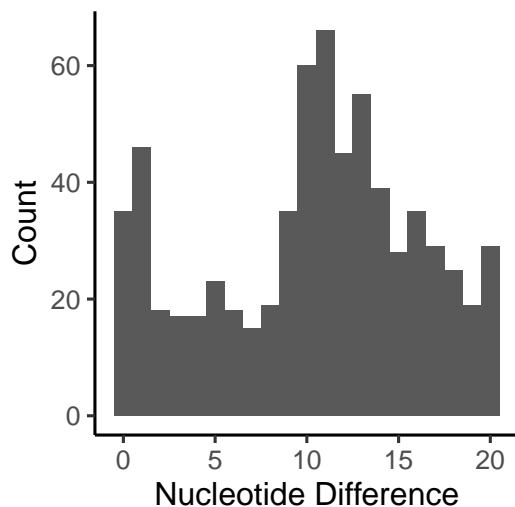
IGHV3-66*02

56 sequences assigned
No exact matches.



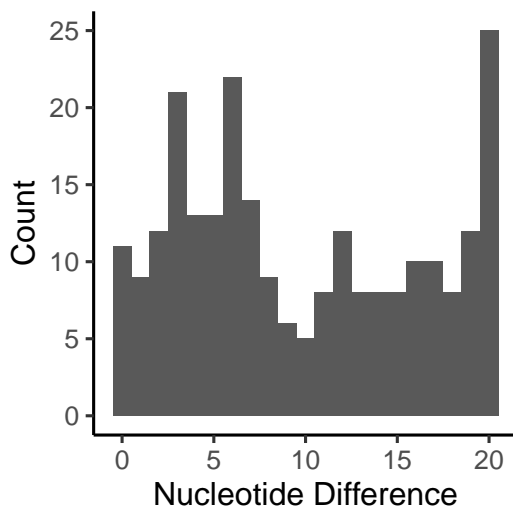
IGHV3-53*01_02

859 sequences assigned
35 (4.1%) exact matches, in which:
26 unique CDR3
5 unique J



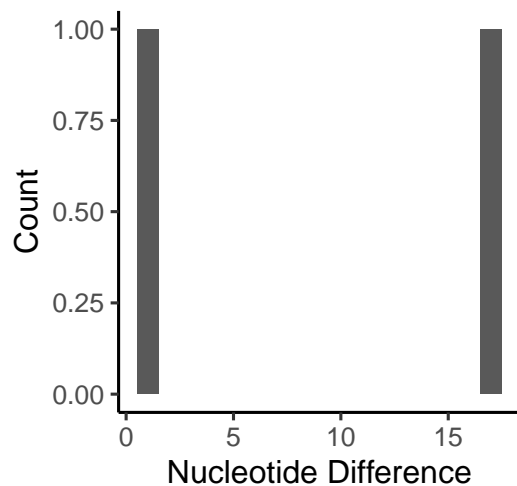
IGHV3-64*04

331 sequences assigned
11 (3.3%) exact matches, in which:
11 unique CDR3
3 unique J



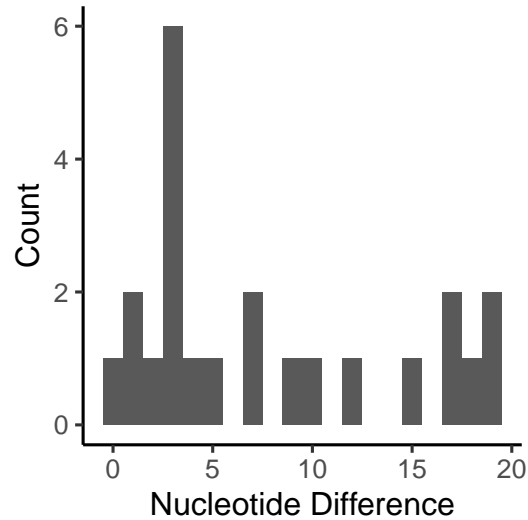
IGHV3-66*03

9 sequences assigned
No exact matches.



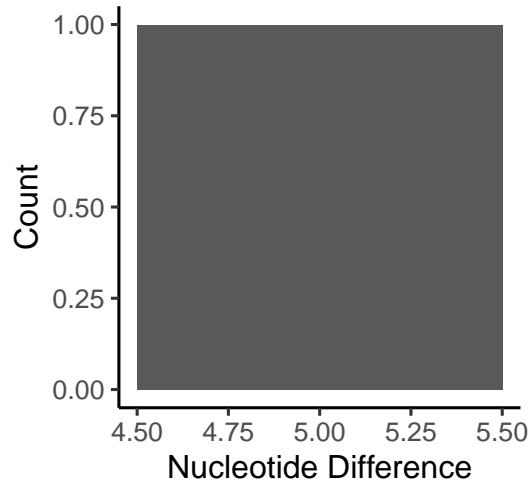
IGHV3-69-1*01

34 sequences assigned
1 (2.9%) exact matches, in which:
1 unique CDR3
1 unique J



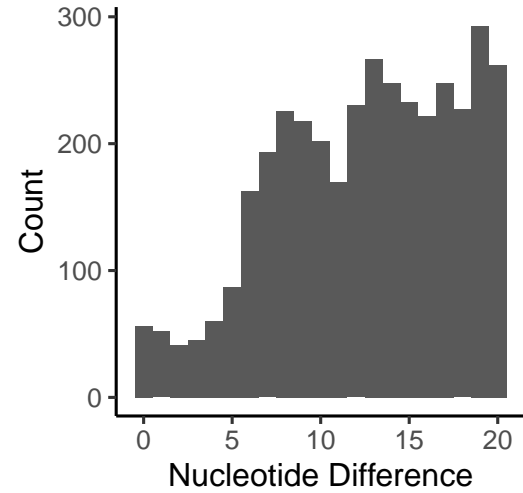
IGHV3-71*01_04

2 sequences assigned
No exact matches.



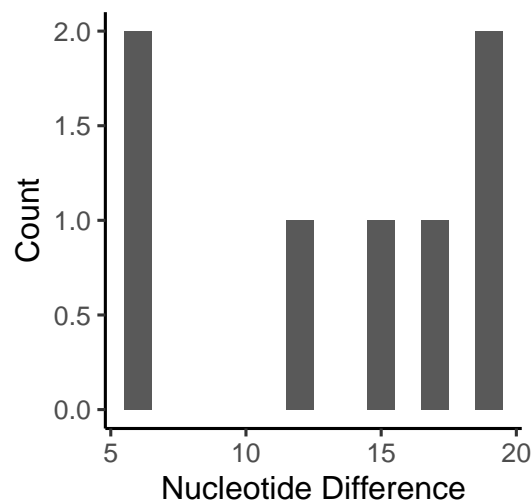
IGHV3-74*01_02

5624 sequences assigned
56 (1%) exact matches, in which:
47 unique CDR3
4 unique J



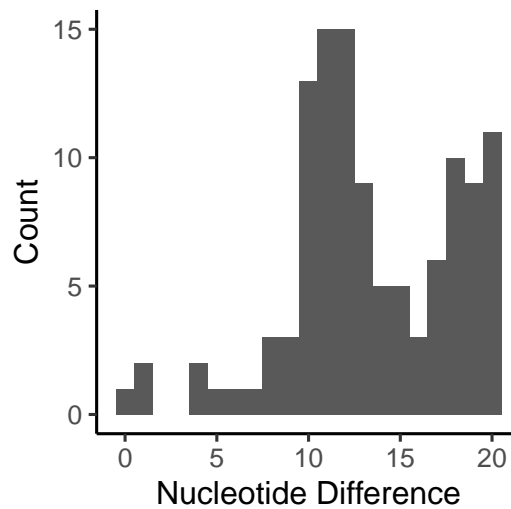
IGHV3-69-1*02

19 sequences assigned
No exact matches.



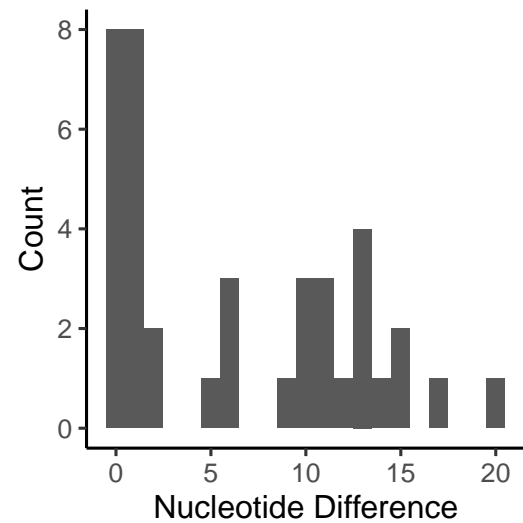
IGHV3-72*01

155 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



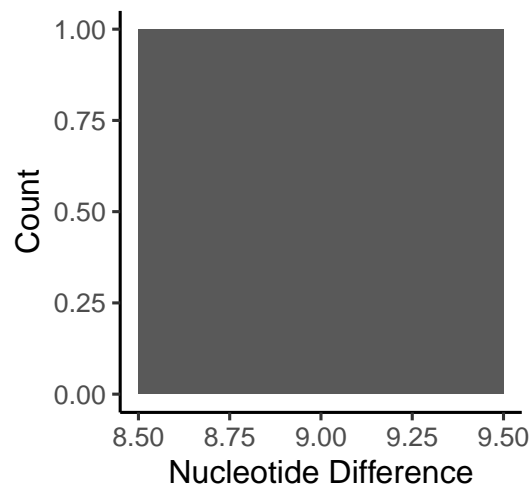
IGHV3-43D*03

43 sequences assigned
8 (18.6%) exact matches, in which:
7 unique CDR3
2 unique J



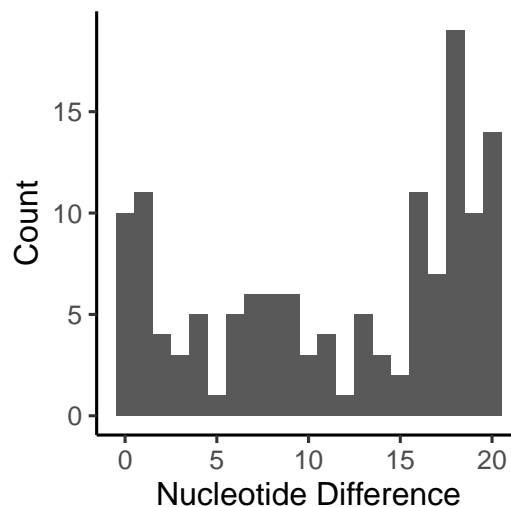
IGHV3-71*03

1 sequences assigned
No exact matches.



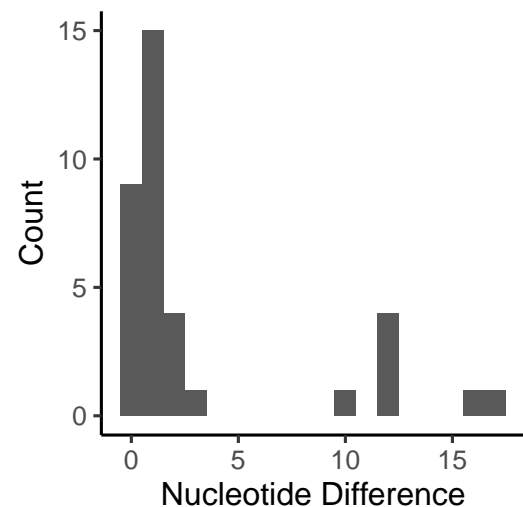
IGHV3-73*01_02

187 sequences assigned
10 (5.3%) exact matches, in which:
8 unique CDR3
4 unique J



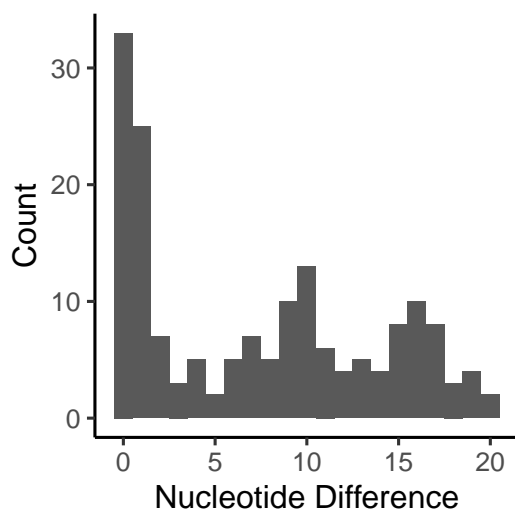
IGHV3-43D*04

55 sequences assigned
9 (16.4%) exact matches, in which:
3 unique CDR3
2 unique J



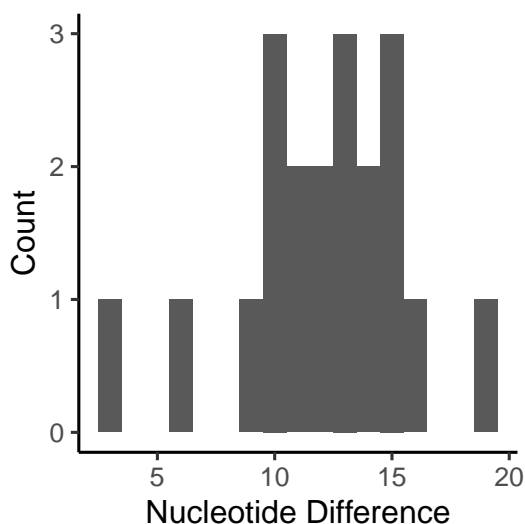
IGHV3-64D*06

267 sequences assigned
33 (12.4%) exact matches, in which:
26 unique CDR3
3 unique J



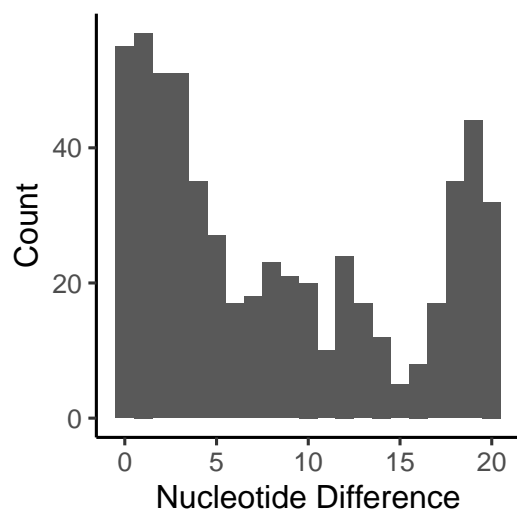
IGHV4-28*03

22 sequences assigned
No exact matches.



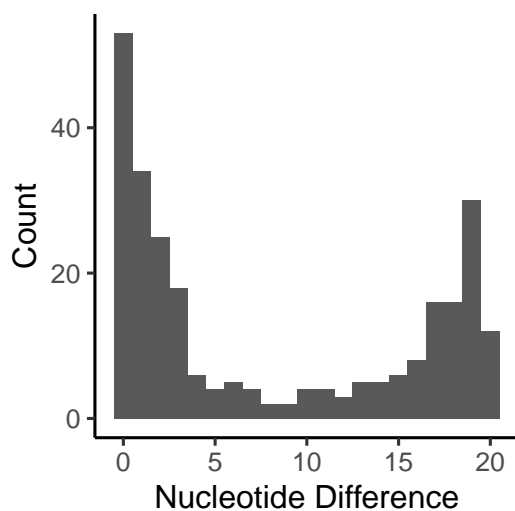
IGHV4-30-4*01

724 sequences assigned
55 (7.6%) exact matches, in which:
49 unique CDR3
6 unique J



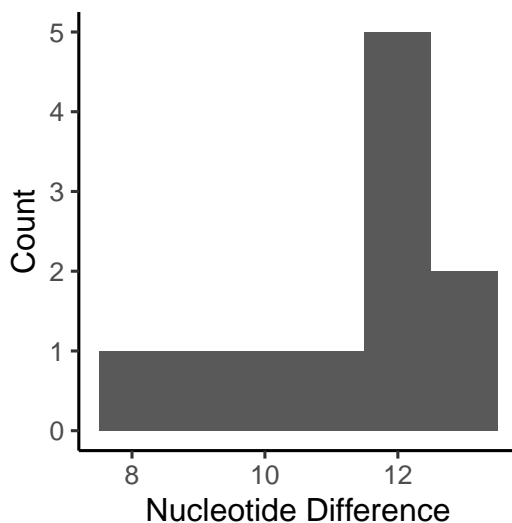
IGHV3-64D*09

305 sequences assigned
53 (17.4%) exact matches, in which:
43 unique CDR3
4 unique J



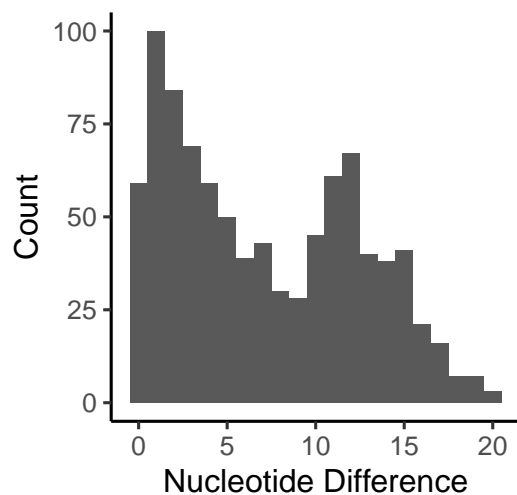
IGHV4-28*01_07

13 sequences assigned
No exact matches.



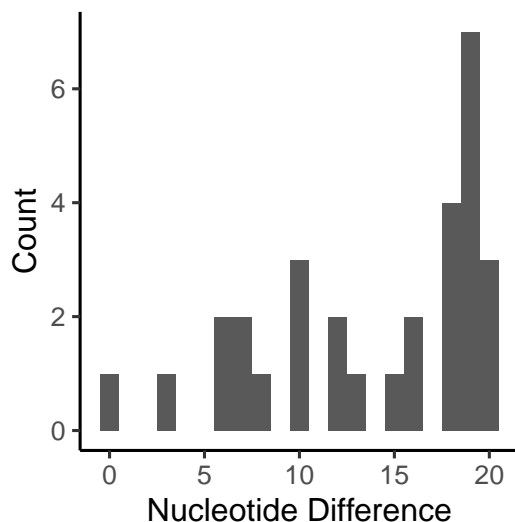
IGHV4-31*03_04

960 sequences assigned
59 (6.1%) exact matches, in which:
55 unique CDR3
5 unique J



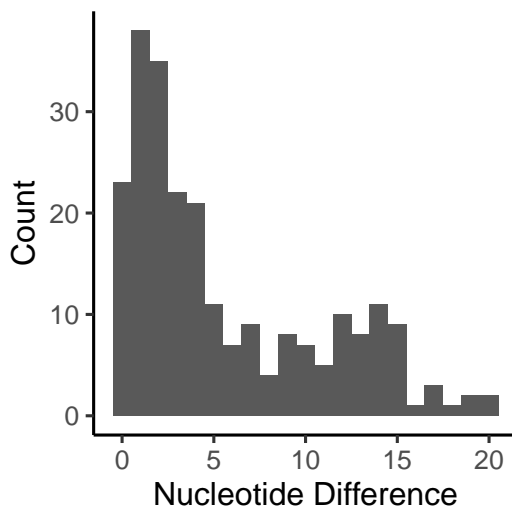
IGHV3-NL1*01

75 sequences assigned
1 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



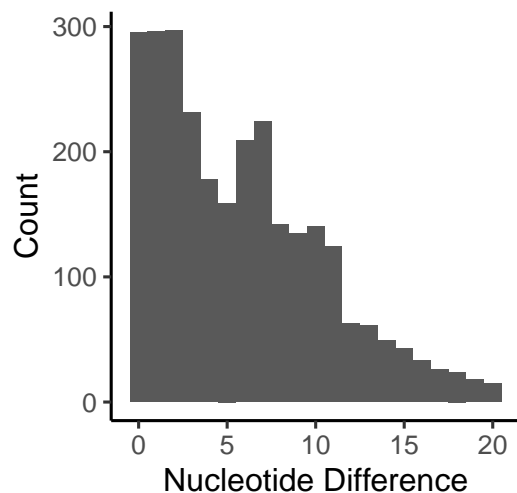
IGHV4-30-2*01

265 sequences assigned
23 (8.7%) exact matches, in which:
20 unique CDR3
5 unique J



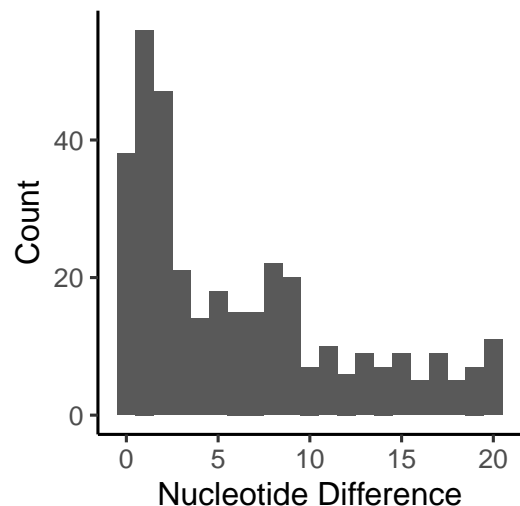
IGHV4-34*01_02

2939 sequences assigned
295 (10%) exact matches, in which:
267 unique CDR3
6 unique J



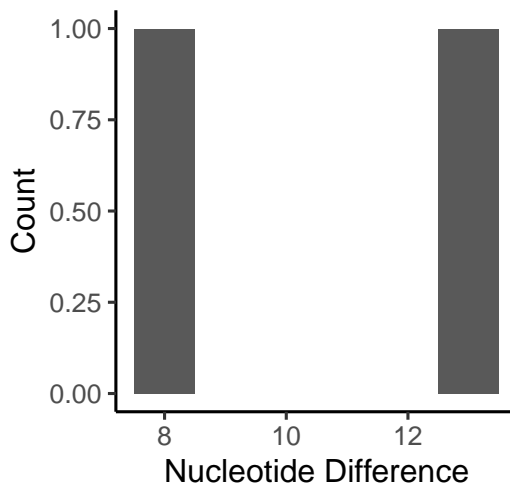
IGHV4-38-2*01

407 sequences assigned
38 (9.3%) exact matches, in which:
36 unique CDR3
4 unique J



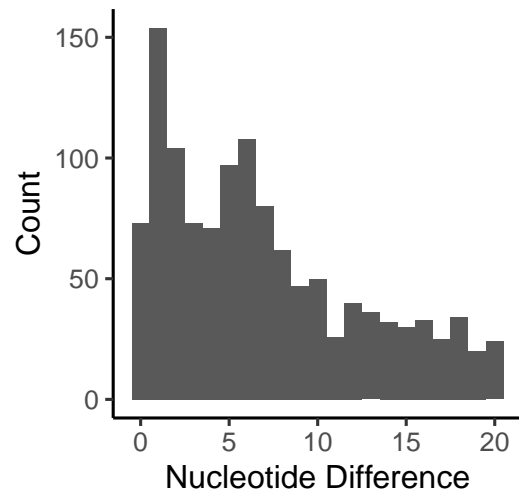
IGHV4-55*02_04_08

3 sequences assigned
No exact matches.



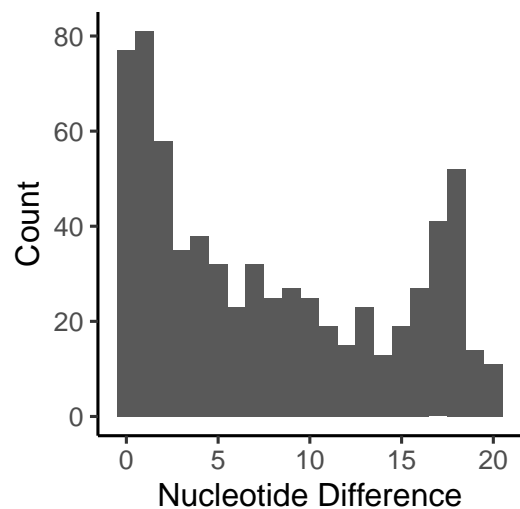
IGHV4-59*12

1328 sequences assigned
73 (5.5%) exact matches, in which:
72 unique CDR3
5 unique J



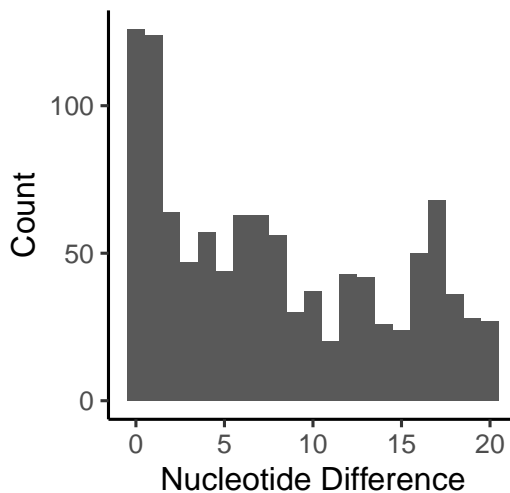
IGHV4-38-2*02

750 sequences assigned
77 (10.3%) exact matches, in which:
70 unique CDR3
4 unique J



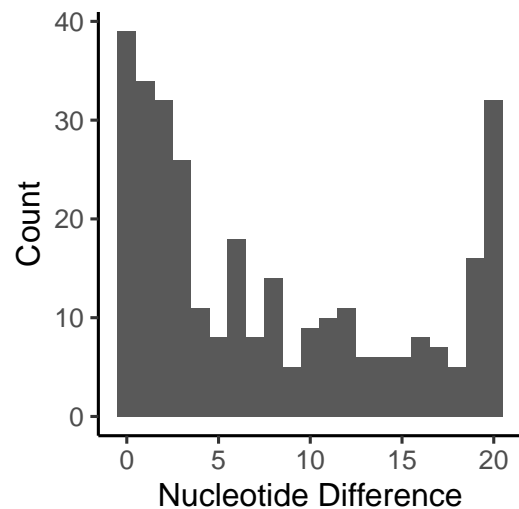
IGHV4-59*08

1389 sequences assigned
126 (9.1%) exact matches, in which:
120 unique CDR3
6 unique J



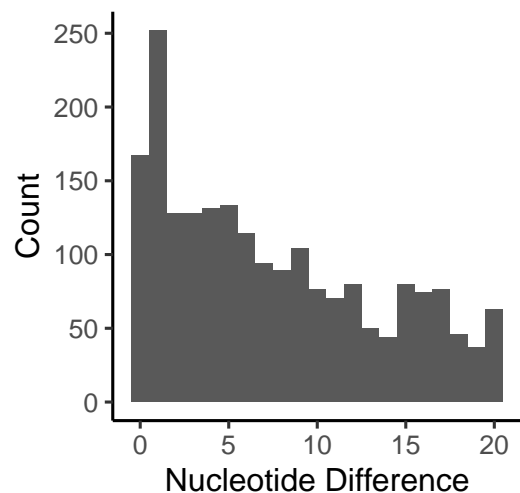
IGHV4-61*01

386 sequences assigned
39 (10.1%) exact matches, in which:
36 unique CDR3
4 unique J



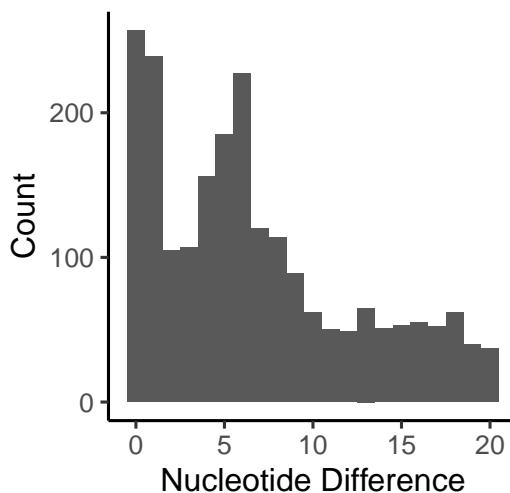
IGHV4-39*07

2255 sequences assigned
167 (7.4%) exact matches, in which:
151 unique CDR3
5 unique J



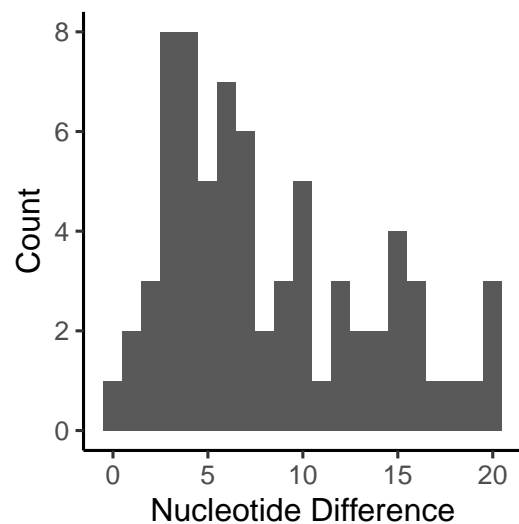
IGHV4-59*01_07

2472 sequences assigned
257 (10.4%) exact matches, in which:
242 unique CDR3
6 unique J



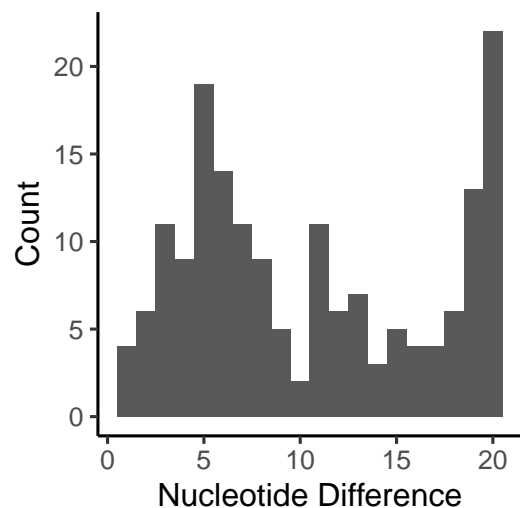
IGHV4-61*05

77 sequences assigned
1 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



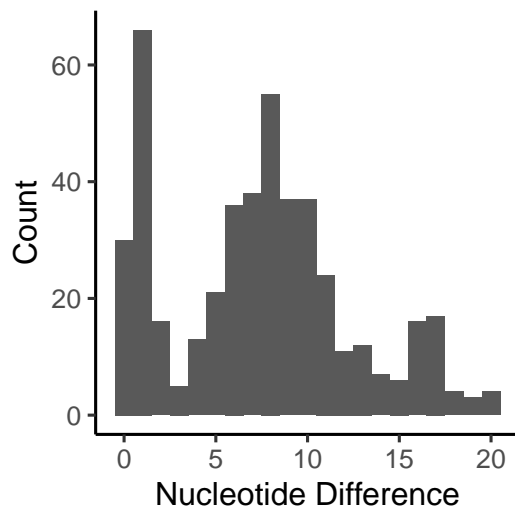
IGHV4-61*08

194 sequences assigned
No exact matches.



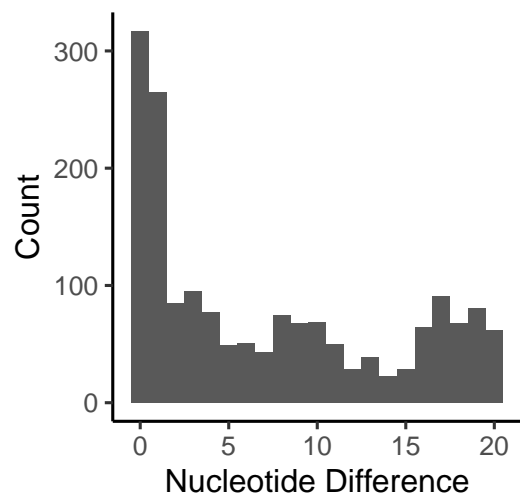
IGHV6-1*01_02

480 sequences assigned
30 (6.2%) exact matches, in which:
26 unique CDR3
4 unique J



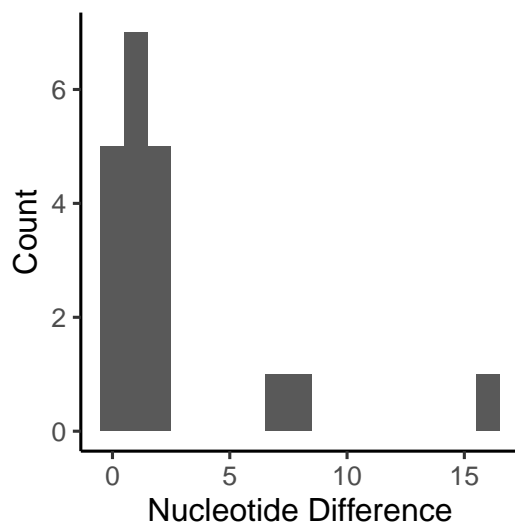
IGHV5-10-1*01_03

1857 sequences assigned
317 (17.1%) exact matches, in which:
268 unique CDR3
5 unique J



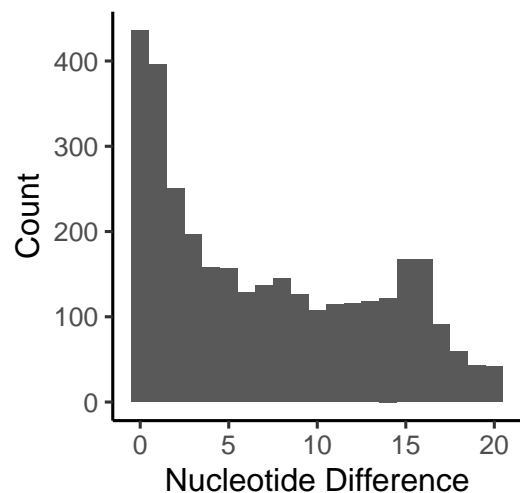
IGHV7-4-1*01

20 sequences assigned
5 (25%) exact matches, in which:
5 unique CDR3
2 unique J



IGHV5-51*01_03

3953 sequences assigned
436 (11%) exact matches, in which:
382 unique CDR3
6 unique J





Novel sequence(s)IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV4–59*02_G88A are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV3–30–3*01_T288CIGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV3–30*03_T288C are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s)IGHV3–33*01_G75CIGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV3–33*01_G75CIGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV3–30*03_T288CIGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s)IGHV1–69*04_09_G112AIGHV4–59*02_G88AIGHV5–10–1*01_03_T258CIGHV5–51*07_A128G are not listed in the genotype and will be ignored.