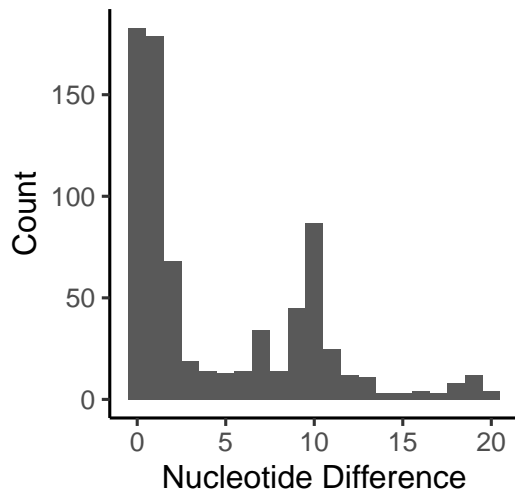


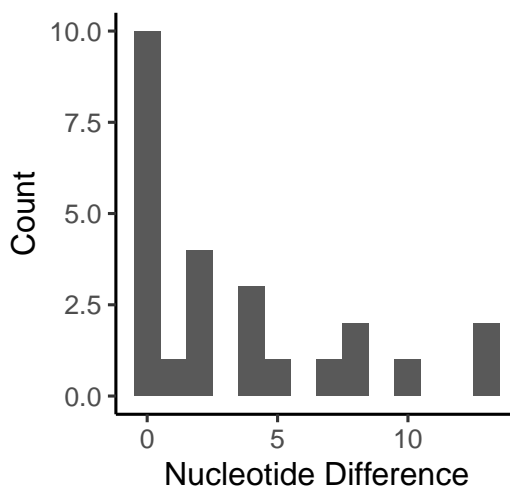
IGHV1-2*02

1092 sequences assigned
183 (16.8%) exact matches, in which:
139 unique CDR3
5 unique J



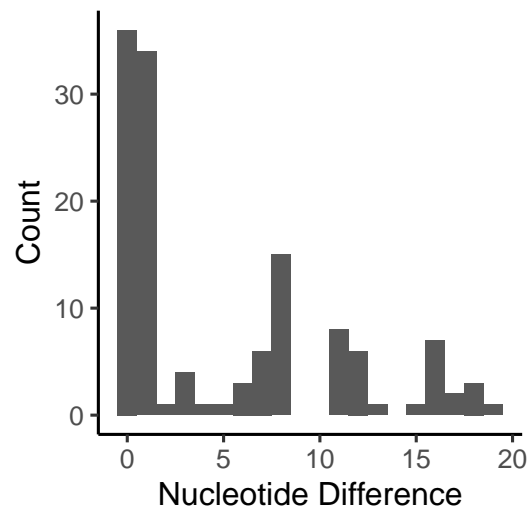
IGHV1-3*01_05_A291G_

25 sequences assigned
10 (40%) exact matches, in which:
10 unique CDR3
3 unique J



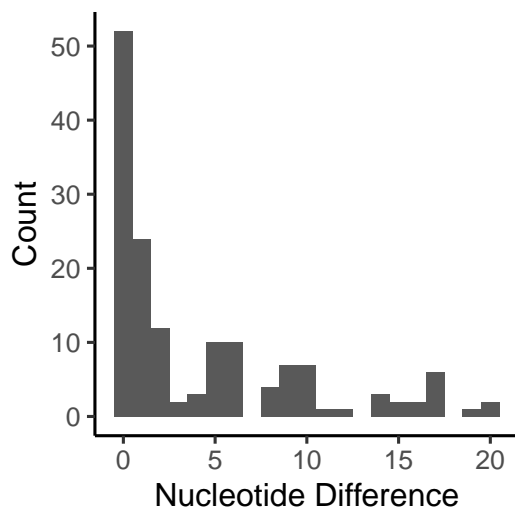
IGHV1-24*01

131 sequences assigned
36 (27.5%) exact matches, in which:
27 unique CDR3
4 unique J



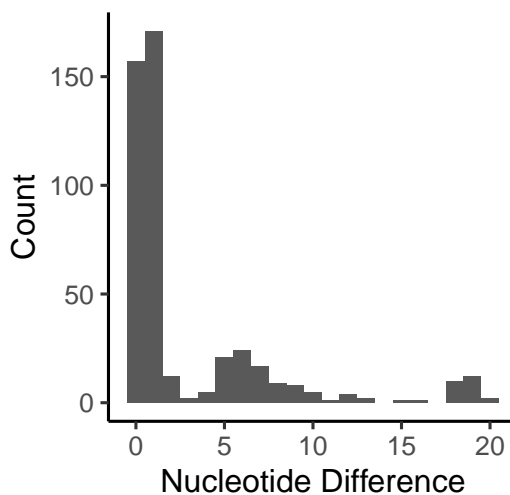
IGHV1-2*04

149 sequences assigned
52 (34.9%) exact matches, in which:
47 unique CDR3
5 unique J



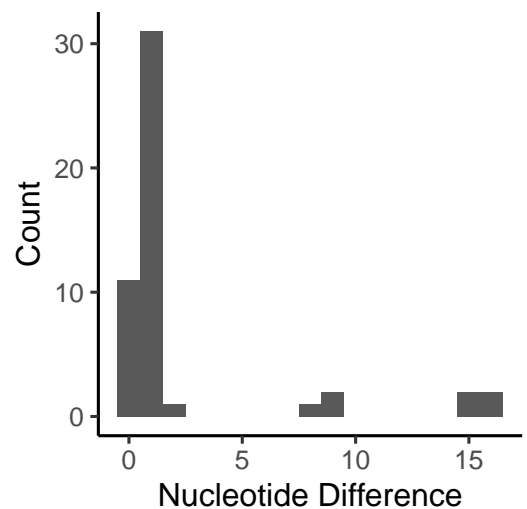
IGHV1-8*01

479 sequences assigned
157 (32.8%) exact matches, in which:
123 unique CDR3
5 unique J



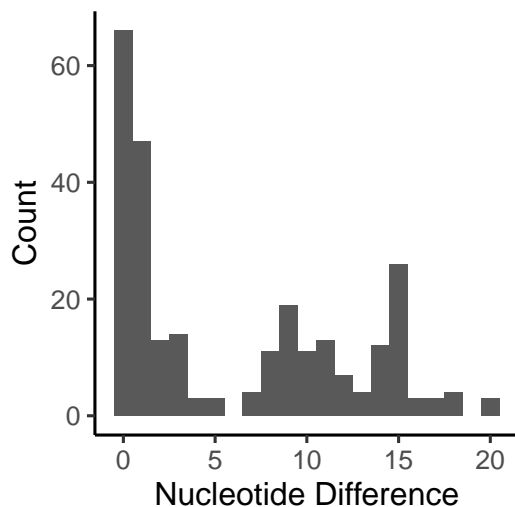
IGHV1-45*02

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



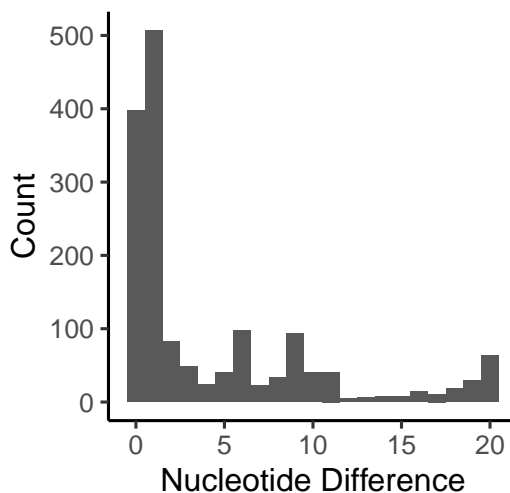
IGHV1-3*01_05

305 sequences assigned
66 (21.6%) exact matches, in which:
50 unique CDR3
4 unique J



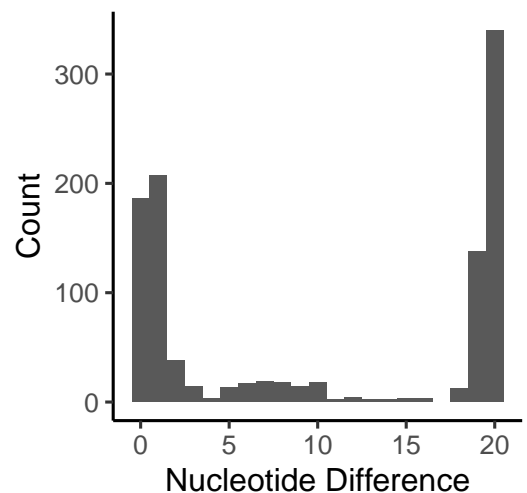
IGHV1-18*01

1793 sequences assigned
397 (22.1%) exact matches, in which:
291 unique CDR3
5 unique J



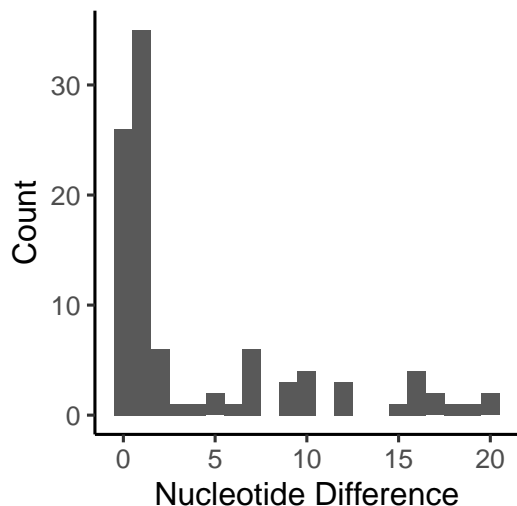
IGHV1-46*01

1109 sequences assigned
186 (16.8%) exact matches, in which:
142 unique CDR3
6 unique J



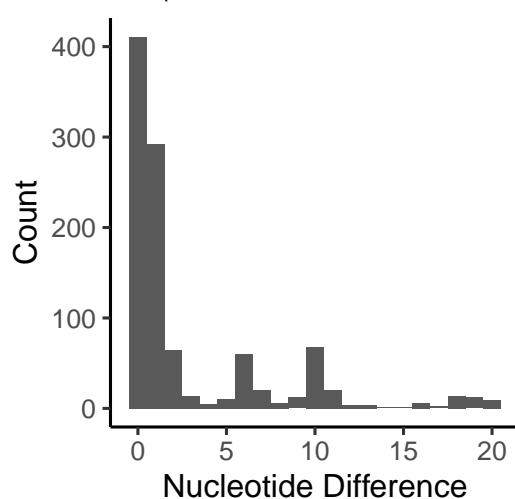
IGHV1-46*03

196 sequences assigned
26 (13.3%) exact matches, in which:
15 unique CDR3
4 unique J



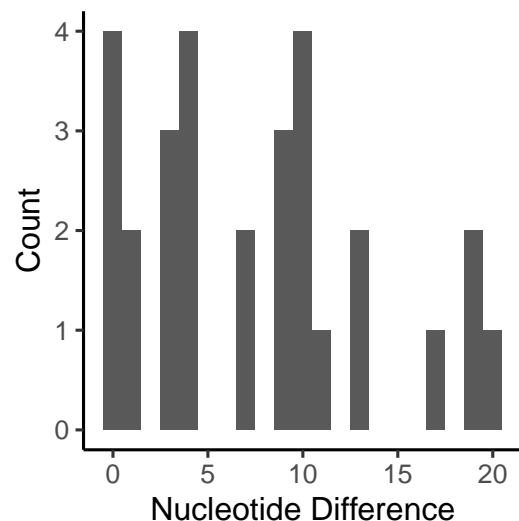
IGHV1-69*01_12_13

1103 sequences assigned
411 (37.3%) exact matches, in which:
361 unique CDR3
6 unique J



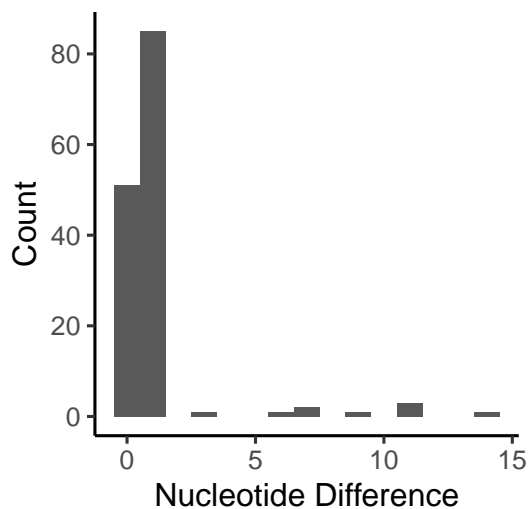
IGHV2-5*02

31 sequences assigned
4 (12.9%) exact matches, in which:
3 unique CDR3
1 unique J



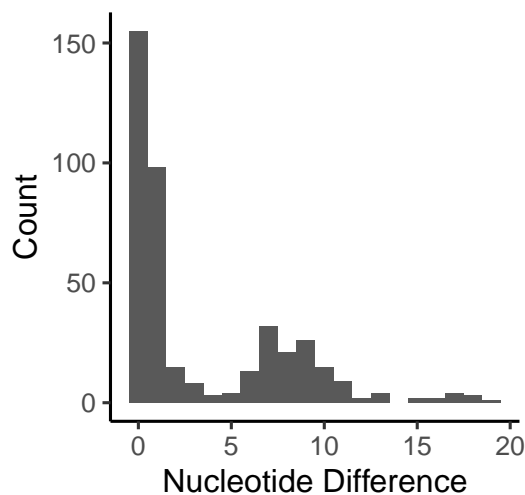
IGHV1-58*01_03

145 sequences assigned
51 (35.2%) exact matches, in which:
37 unique CDR3
4 unique J



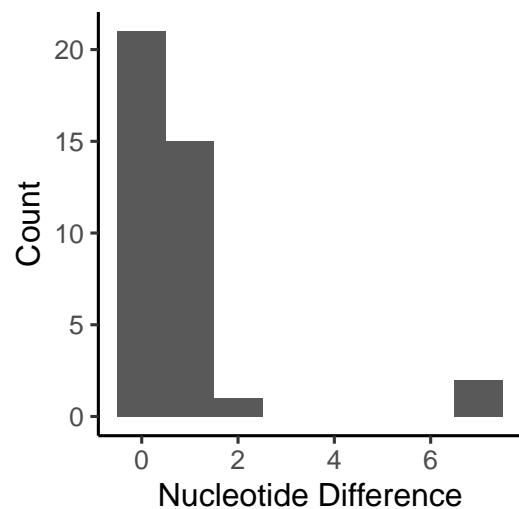
IGHV1-69*06_14

448 sequences assigned
155 (34.6%) exact matches, in which:
137 unique CDR3
6 unique J



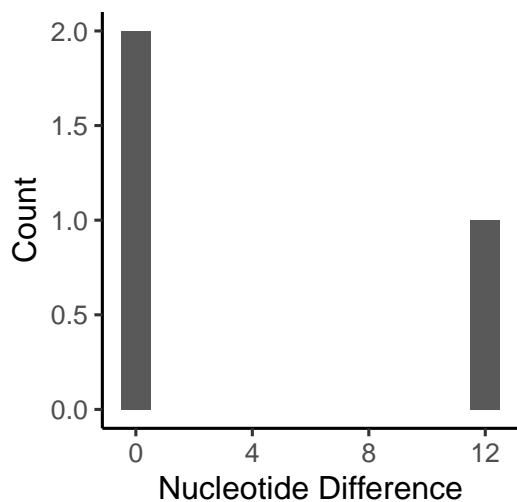
IGHV2-26*01

39 sequences assigned
21 (53.8%) exact matches, in which:
18 unique CDR3
5 unique J



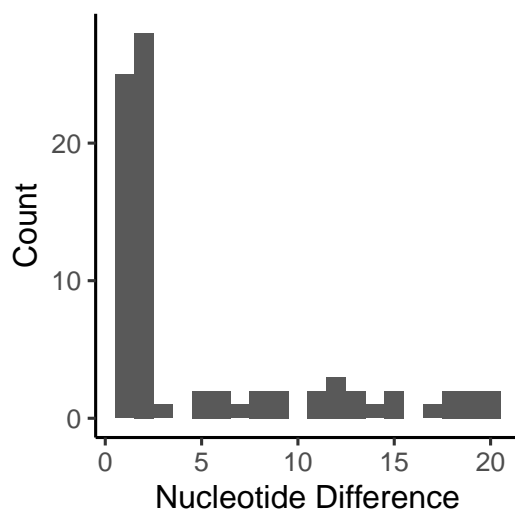
IGHV1-69-2*01

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



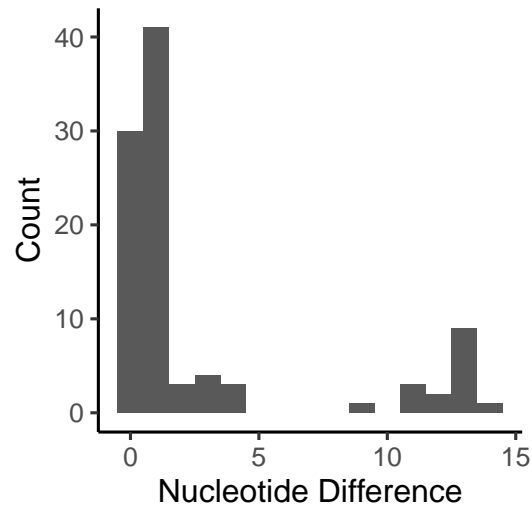
IGHV2-5*01

80 sequences assigned
No exact matches.



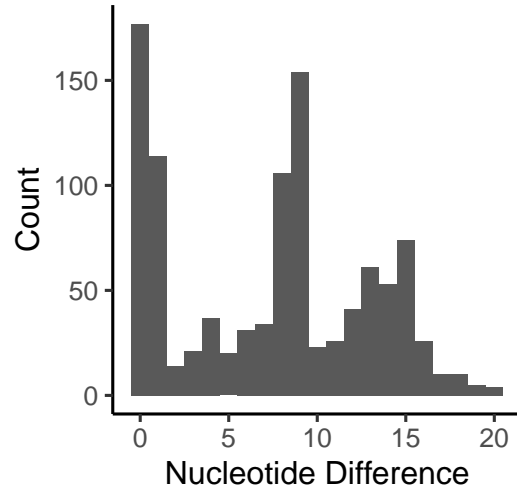
IGHV2-70*01

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



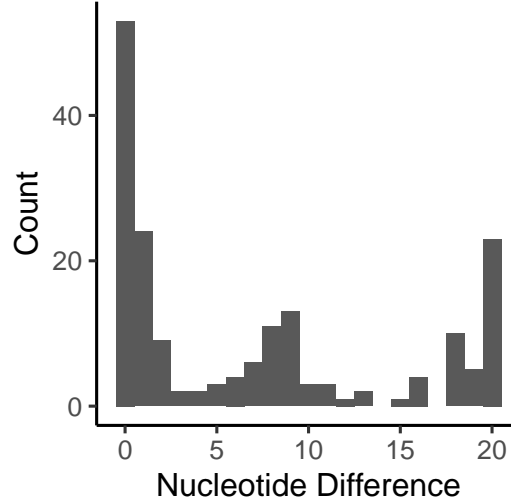
IGHV3-7*01

1087 sequences assigned
177 (16.3%) exact matches, in which:
94 unique CDR3
6 unique J



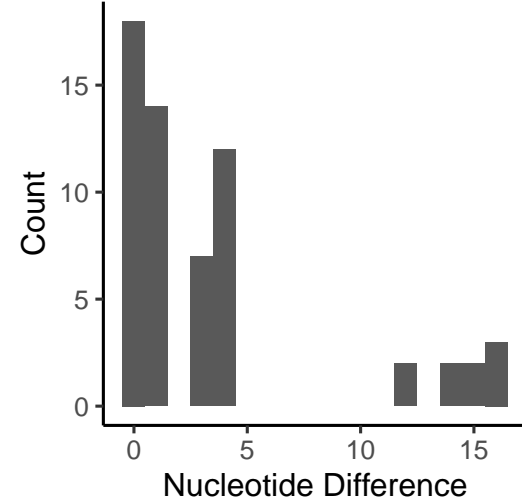
IGHV3-11*01

289 sequences assigned
53 (18.3%) exact matches, in which:
26 unique CDR3
4 unique J



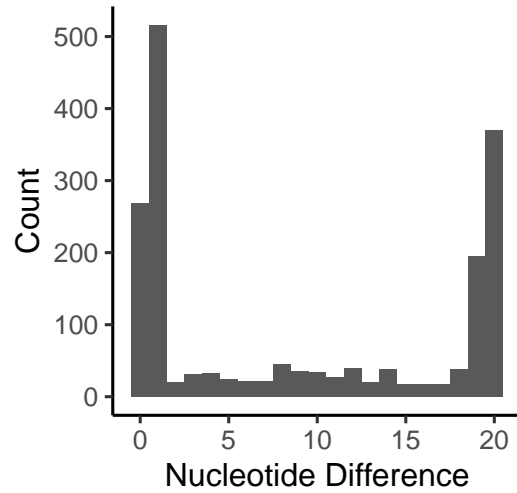
IGHV3-13*01

62 sequences assigned
18 (29%) exact matches, in which:
9 unique CDR3
2 unique J



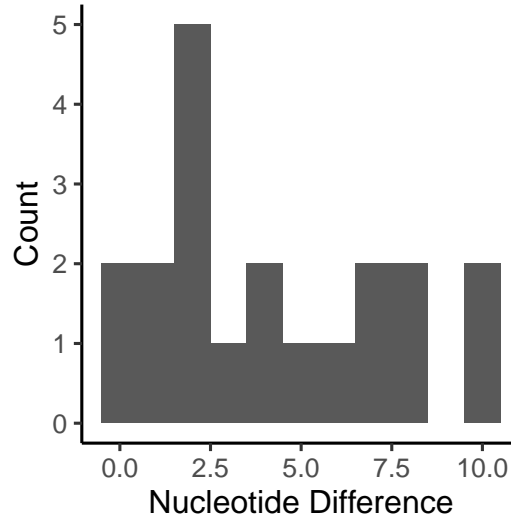
IGHV3-7*03

2994 sequences assigned
269 (9%) exact matches, in which:
129 unique CDR3
5 unique J



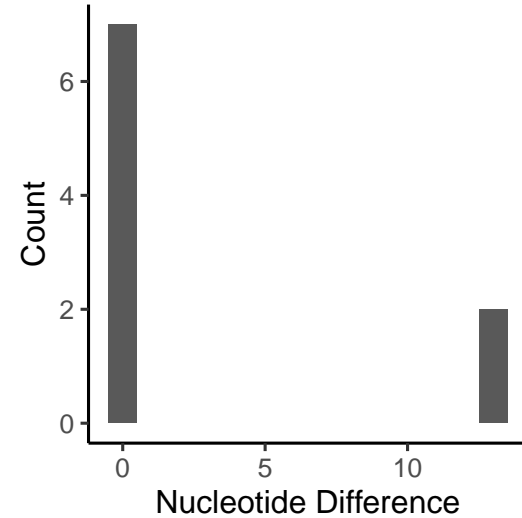
IGHV3-11*04

20 sequences assigned
2 (10%) exact matches, in which:
2 unique CDR3
2 unique J



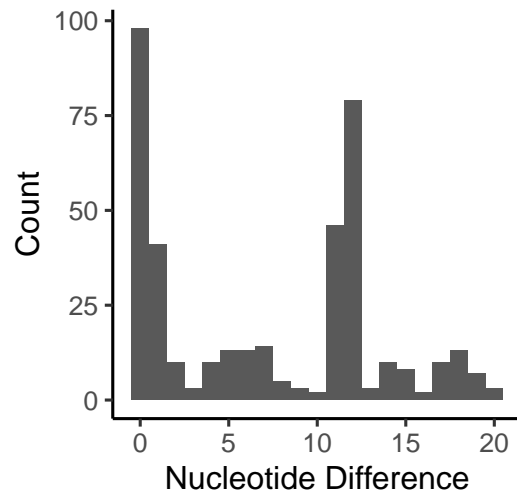
IGHV3-13*05

9 sequences assigned
7 (77.8%) exact matches, in which:
4 unique CDR3
3 unique J



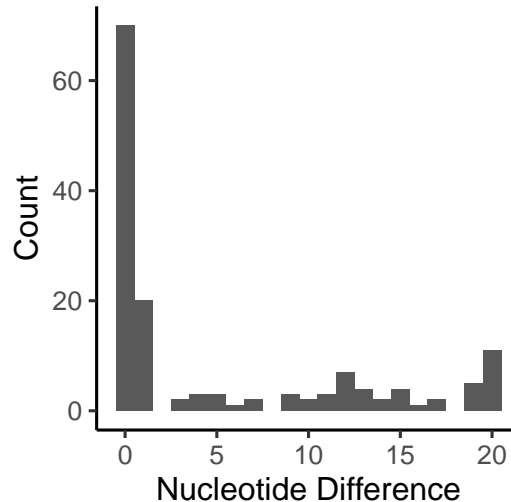
IGHV3-9*01

462 sequences assigned
98 (21.2%) exact matches, in which:
47 unique CDR3
5 unique J



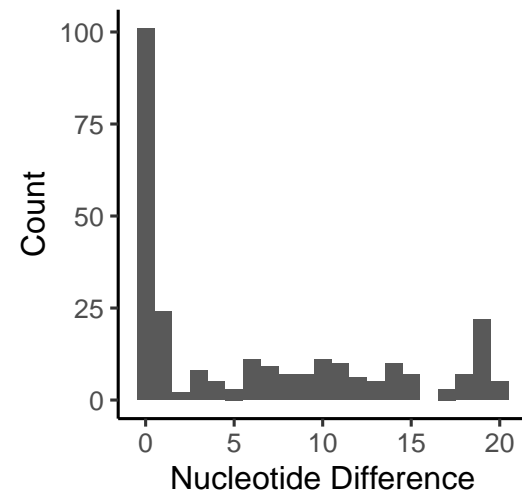
IGHV3-11*06

179 sequences assigned
70 (39.1%) exact matches, in which:
34 unique CDR3
5 unique J



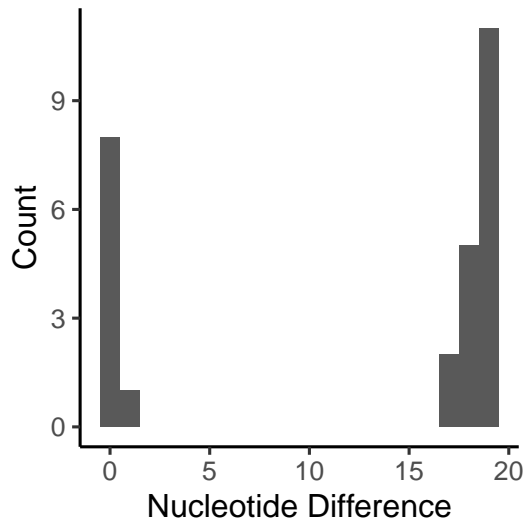
IGHV3-15*01_02

302 sequences assigned
101 (33.4%) exact matches, in which:
49 unique CDR3
6 unique J



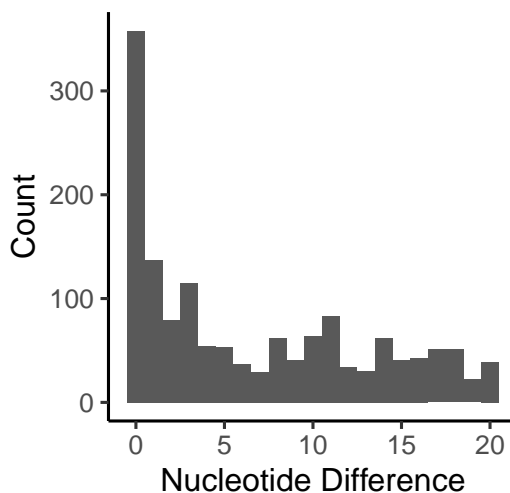
IGHV3-20*01_02

30 sequences assigned
8 (26.7%) exact matches, in which:
3 unique CDR3
2 unique J



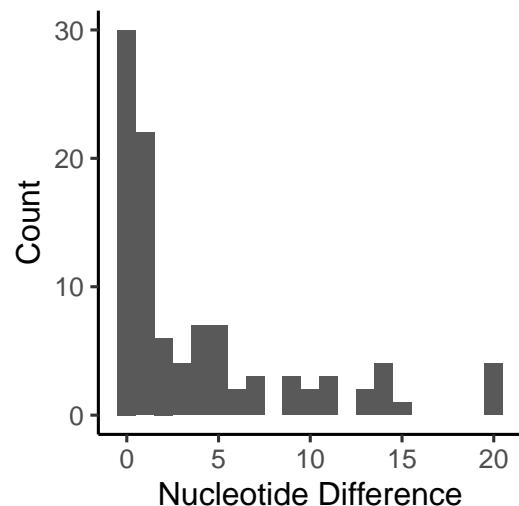
IGHV3-23*01_04

1879 sequences assigned
358 (19.1%) exact matches, in which:
181 unique CDR3
6 unique J



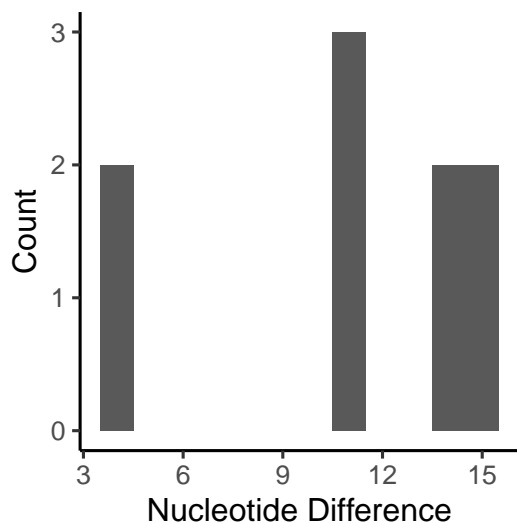
IGHV3-30*03_T288C

108 sequences assigned
30 (27.8%) exact matches, in which:
25 unique CDR3
6 unique J



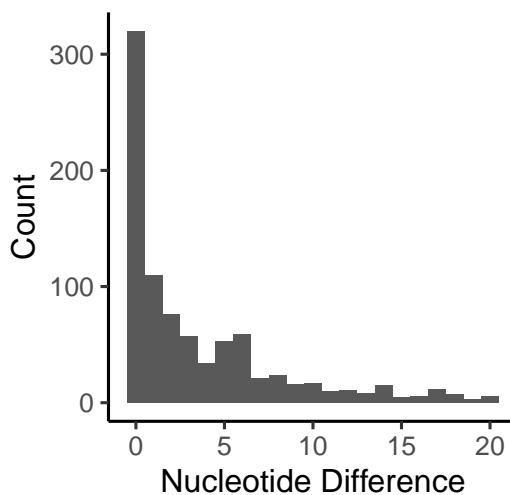
IGHV3-20*03_04

9 sequences assigned
No exact matches.



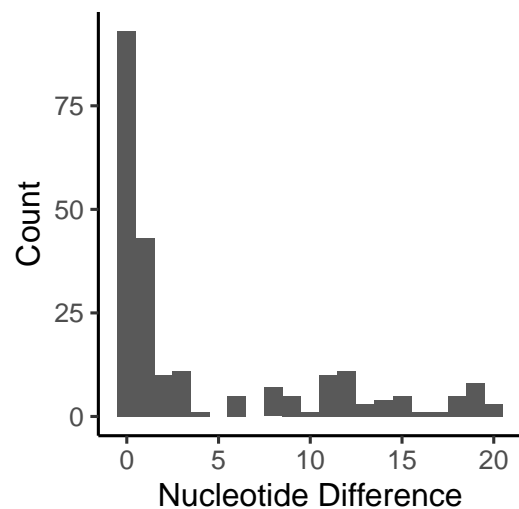
IGHV3-30-3*01

1058 sequences assigned
320 (30.2%) exact matches, in which:
167 unique CDR3
6 unique J



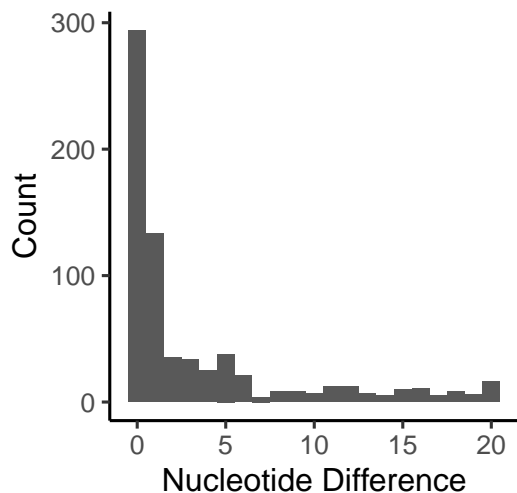
IGHV3-33*01

289 sequences assigned
93 (32.2%) exact matches, in which:
49 unique CDR3
5 unique J



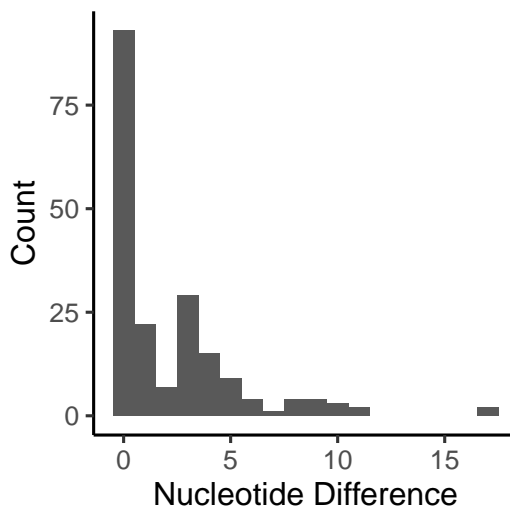
IGHV3-21*01_02

795 sequences assigned
294 (37%) exact matches, in which:
140 unique CDR3
6 unique J



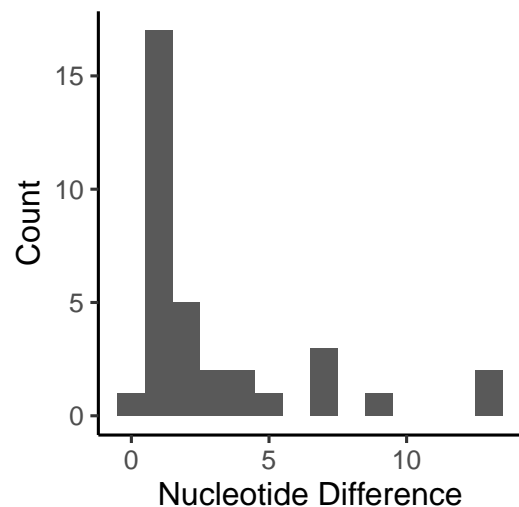
IGHV3-30-3*02_G75C

204 sequences assigned
93 (45.6%) exact matches, in which:
64 unique CDR3
6 unique J



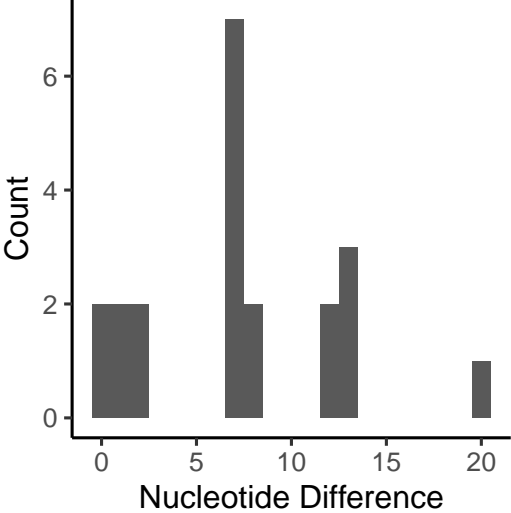
IGHV3-33*06

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



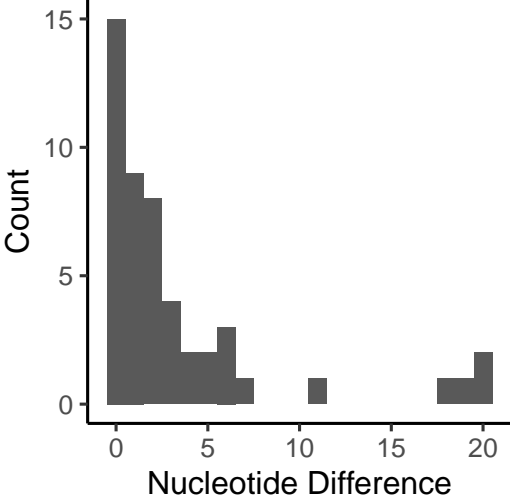
IGHV3-43*01

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



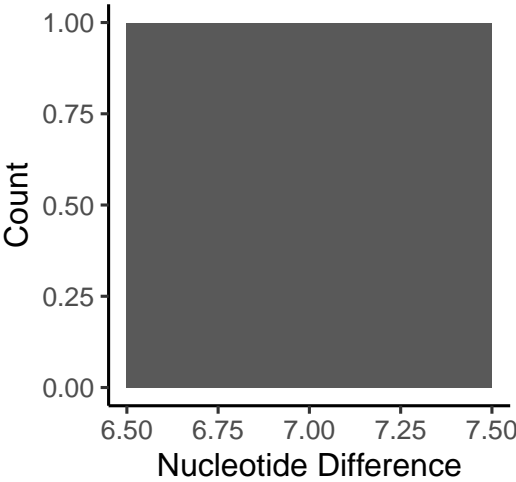
IGHV3-48*03_T303G

51 sequences assigned
15 (29.4%) exact matches, in which:
15 unique CDR3
5 unique J



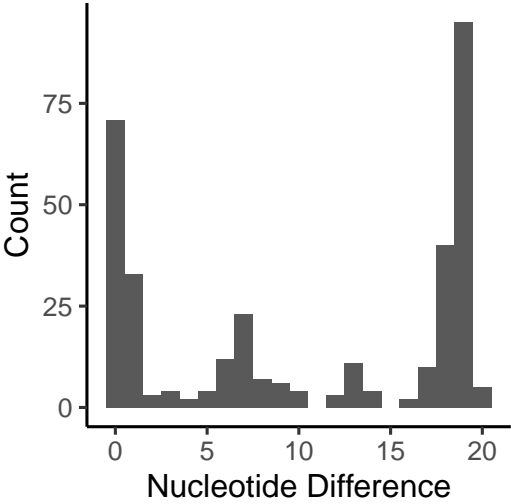
IGHV3-53*05

1 sequences assigned
No exact matches.



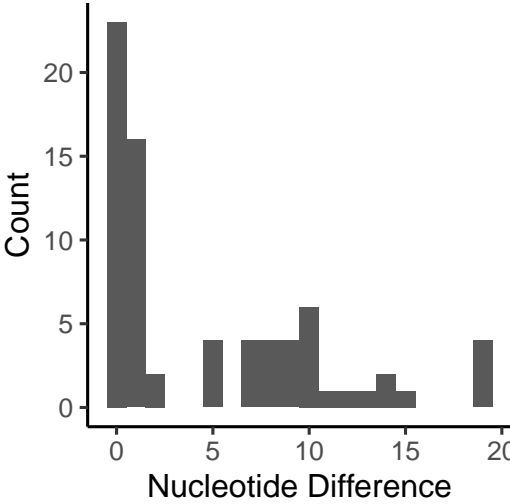
IGHV3-48*02

343 sequences assigned
71 (20.7%) exact matches, in which:
31 unique CDR3
4 unique J



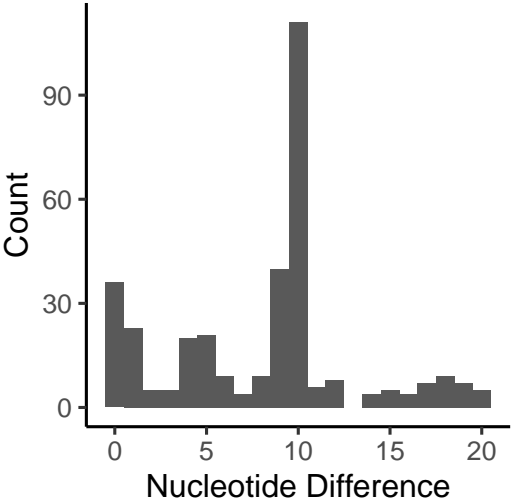
IGHV3-49*04

108 sequences assigned
23 (21.3%) exact matches, in which:
12 unique CDR3
4 unique J



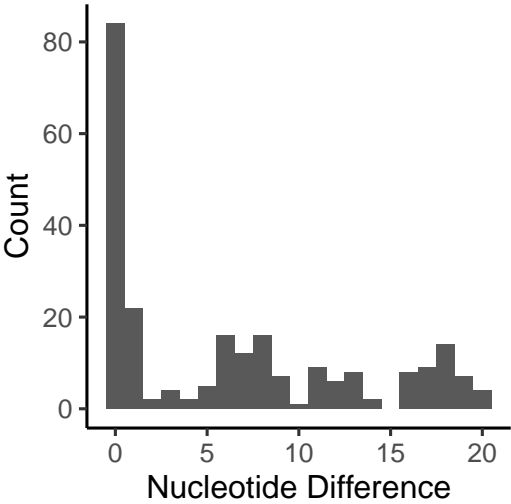
IGHV3-53*01_02

351 sequences assigned
36 (10.3%) exact matches, in which:
18 unique CDR3
4 unique J



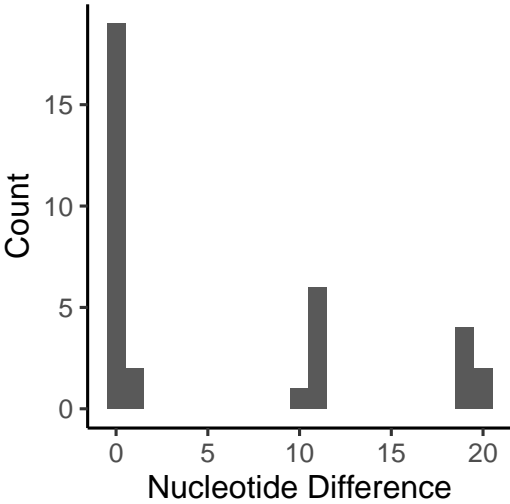
IGHV3-48*03

269 sequences assigned
84 (31.2%) exact matches, in which:
42 unique CDR3
6 unique J



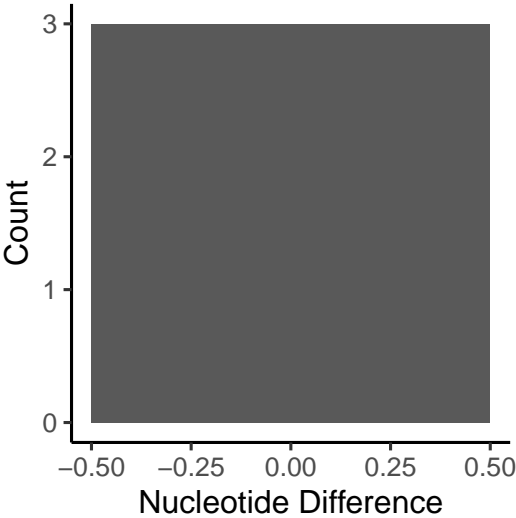
IGHV3-49*03_05

36 sequences assigned
19 (52.8%) exact matches, in which:
9 unique CDR3
3 unique J



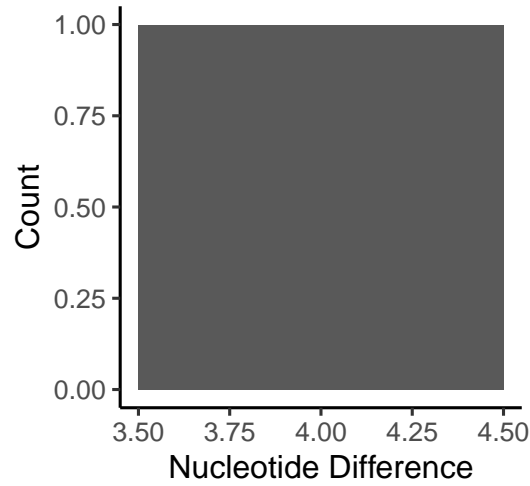
IGHV3-64*02_07

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



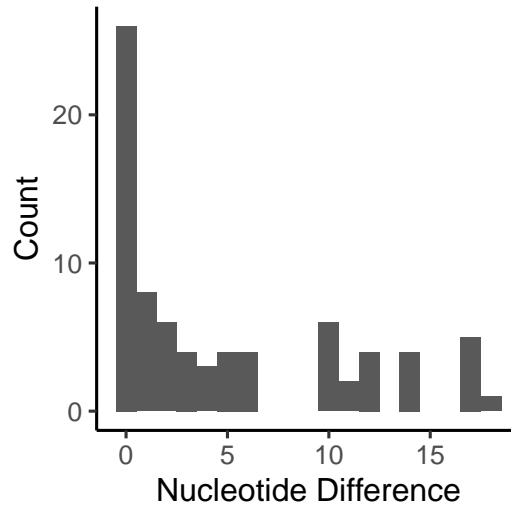
IGHV3-66*01

2 sequences assigned
No exact matches.



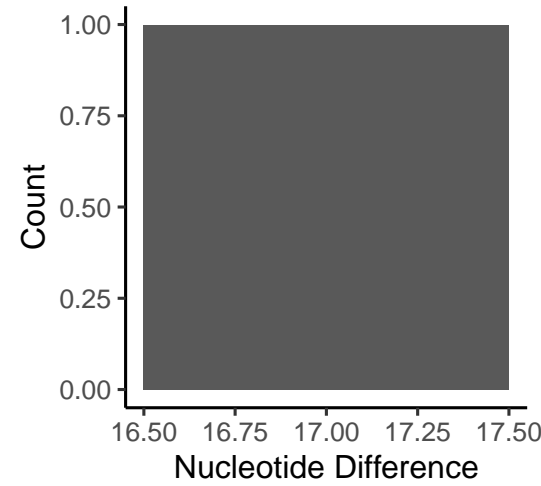
IGHV3-73*01_02

78 sequences assigned
26 (33.3%) exact matches, in which:
11 unique CDR3
4 unique J



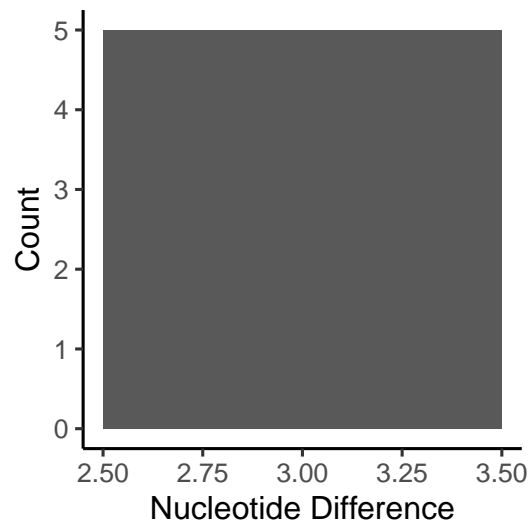
IGHV3-43D*03

1 sequences assigned
No exact matches.



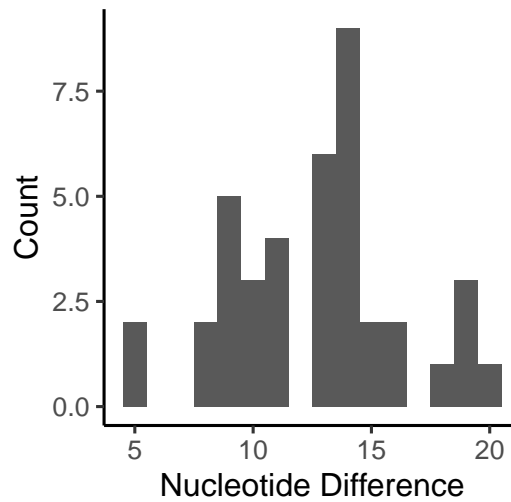
IGHV3-69-1*01

5 sequences assigned
No exact matches.



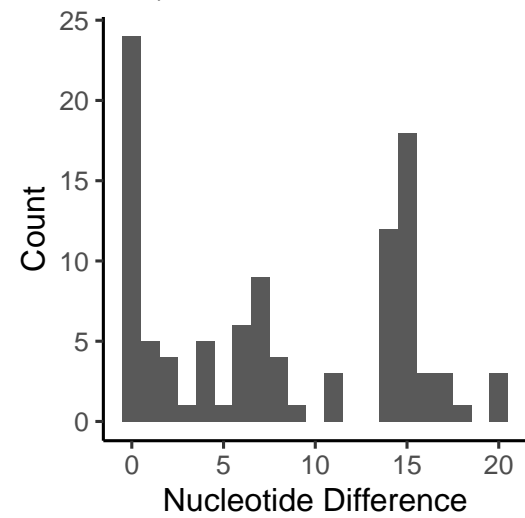
IGHV3-74*03

75 sequences assigned
No exact matches.



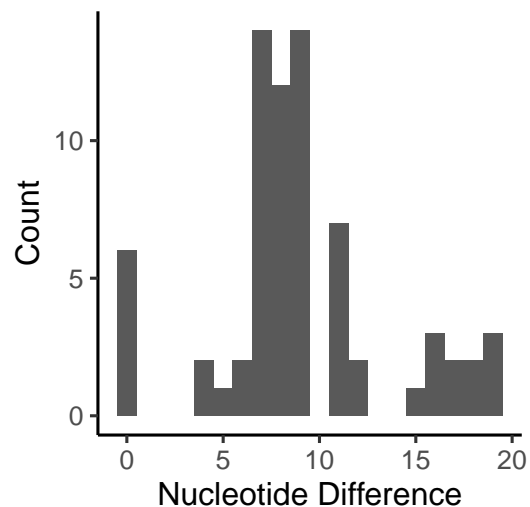
IGHV3-64D*09

130 sequences assigned
24 (18.5%) exact matches, in which:
10 unique CDR3
4 unique J



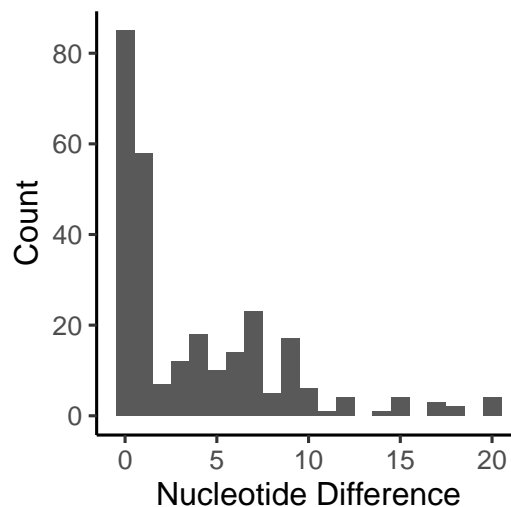
IGHV3-72*01

79 sequences assigned
6 (7.6%) exact matches, in which:
3 unique CDR3
2 unique J



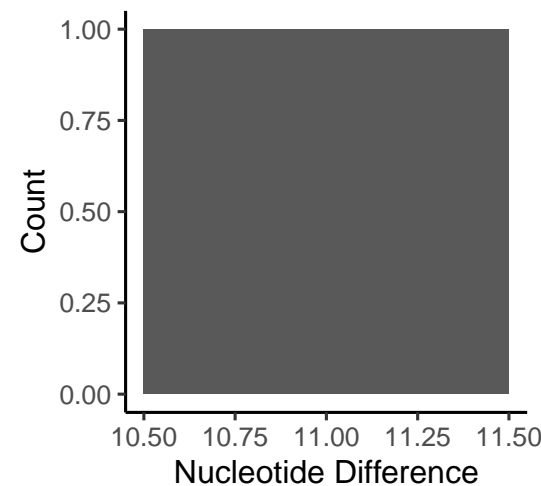
IGHV3-74*01_02

284 sequences assigned
85 (29.9%) exact matches, in which:
42 unique CDR3
5 unique J



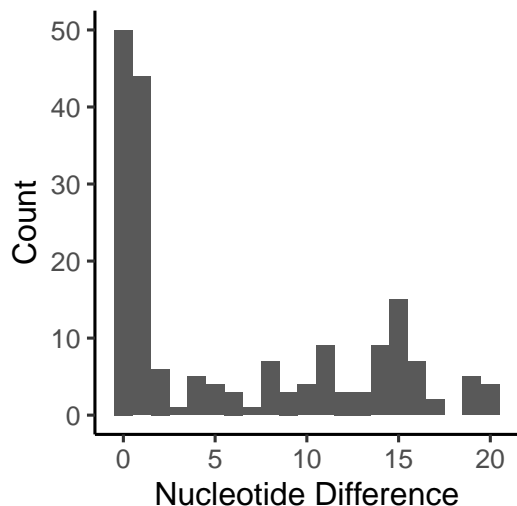
IGHV3-NL1*01

1 sequences assigned
No exact matches.



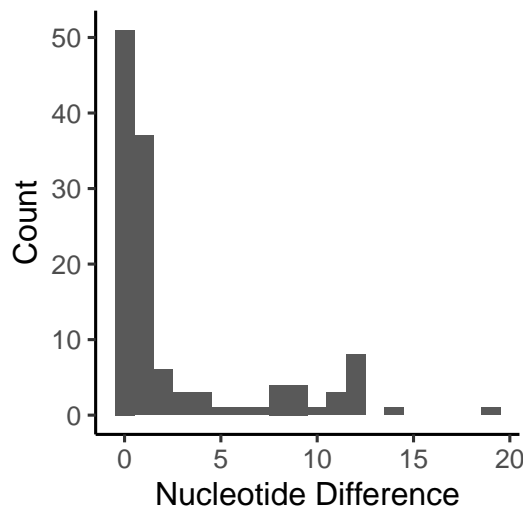
IGHV4-4*07

200 sequences assigned
50 (25%) exact matches, in which:
34 unique CDR3
5 unique J



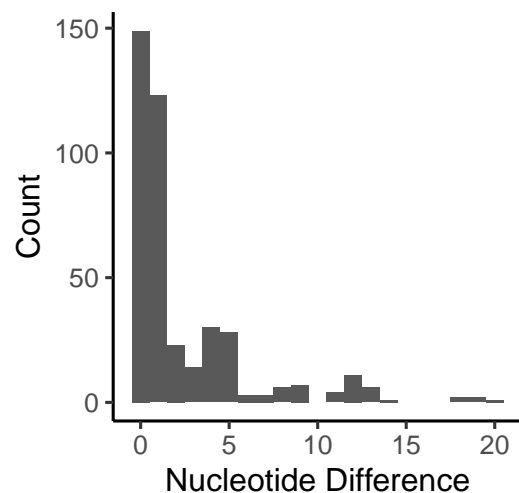
IGHV4-30-2*01

129 sequences assigned
51 (39.5%) exact matches, in which:
33 unique CDR3
5 unique J



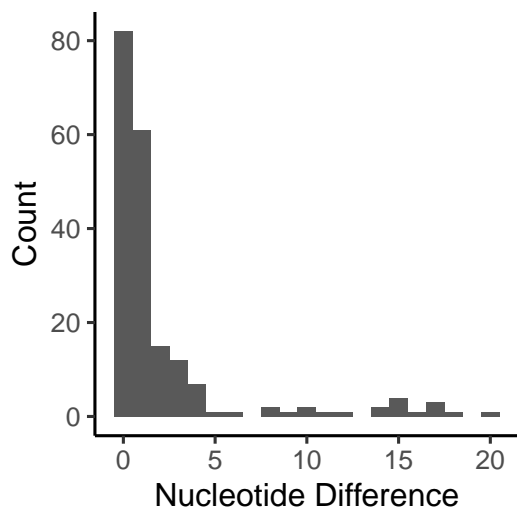
IGHV4-34*01_02

528 sequences assigned
149 (28.2%) exact matches, in which:
98 unique CDR3
6 unique J



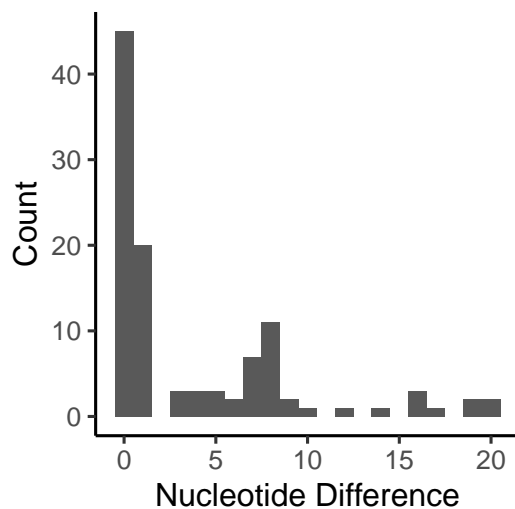
IGHV4-4*02_03

204 sequences assigned
82 (40.2%) exact matches, in which:
57 unique CDR3
5 unique J



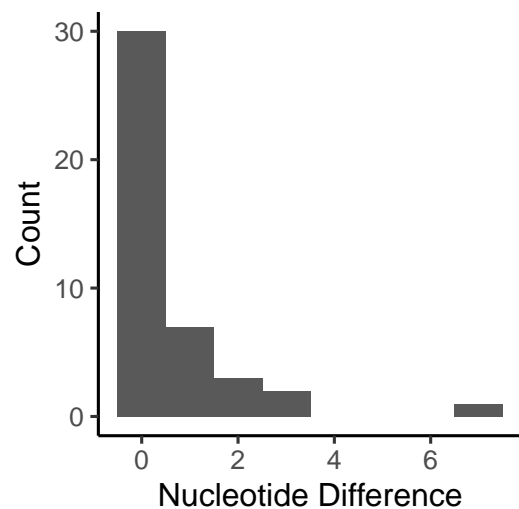
IGHV4-30-4*01

156 sequences assigned
45 (28.8%) exact matches, in which:
35 unique CDR3
5 unique J



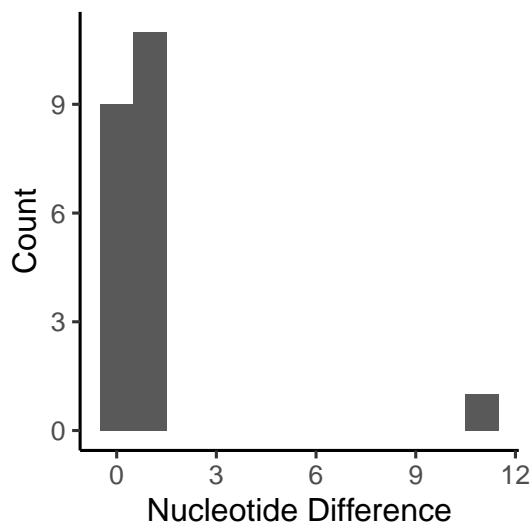
IGHV4-34*01_02_C288T

43 sequences assigned
30 (69.8%) exact matches, in which:
30 unique CDR3
6 unique J



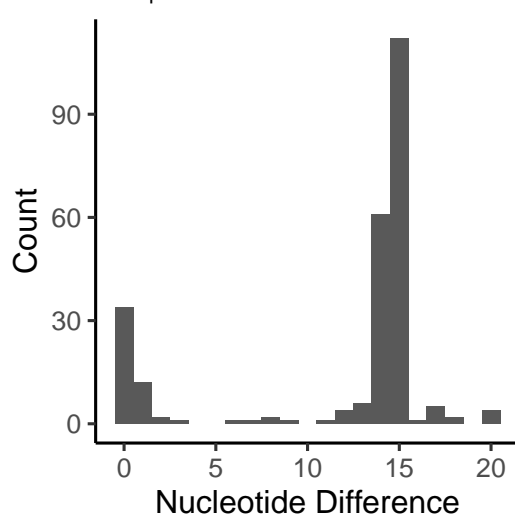
IGHV4-4*07_C288T

21 sequences assigned
9 (42.9%) exact matches, in which:
9 unique CDR3
4 unique J



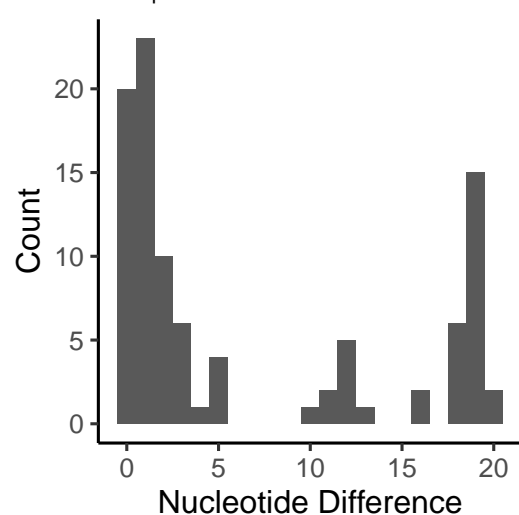
IGHV4-31*02

387 sequences assigned
34 (8.8%) exact matches, in which:
31 unique CDR3
5 unique J



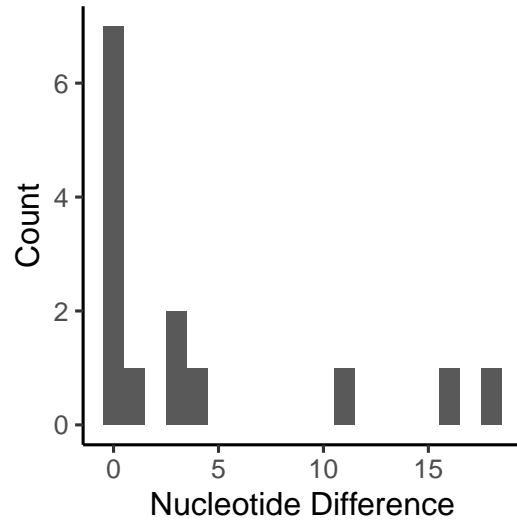
IGHV4-38-2*01

103 sequences assigned
20 (19.4%) exact matches, in which:
18 unique CDR3
3 unique J



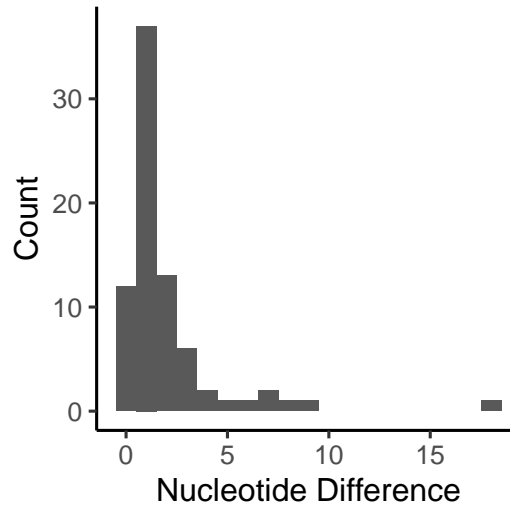
IGHV4-38-2*02

14 sequences assigned
7 (50%) exact matches, in which:
7 unique CDR3
2 unique J



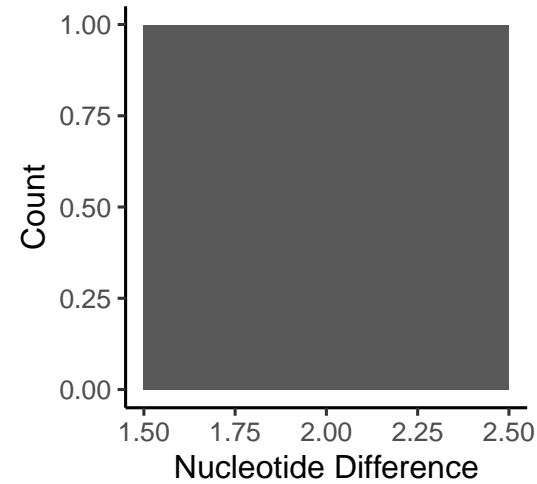
IGHV4-59*12

78 sequences assigned
12 (15.4%) exact matches, in which:
11 unique CDR3
4 unique J



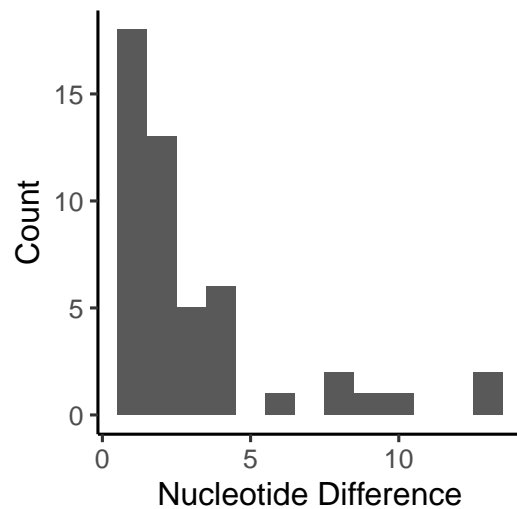
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



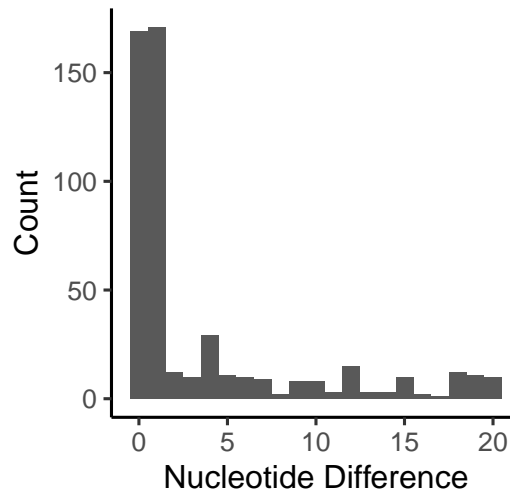
IGHV4-39*07

49 sequences assigned
No exact matches.



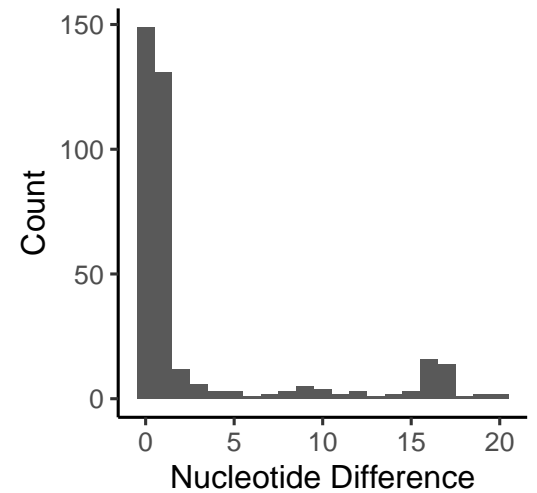
IGHV4-59*02_G88A

535 sequences assigned
169 (31.6%) exact matches, in which:
118 unique CDR3
6 unique J



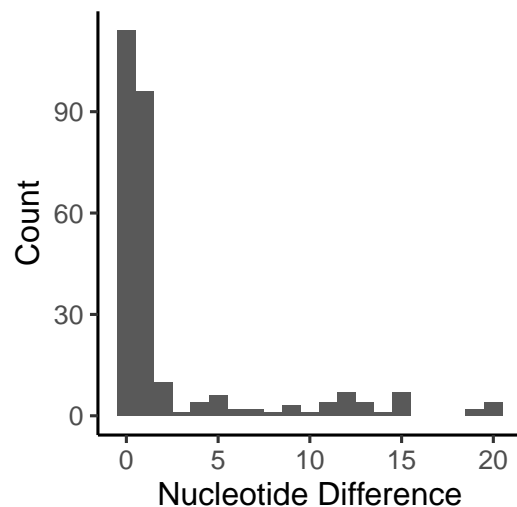
IGHV5-10-1*01_03

375 sequences assigned
149 (39.7%) exact matches, in which:
85 unique CDR3
6 unique J



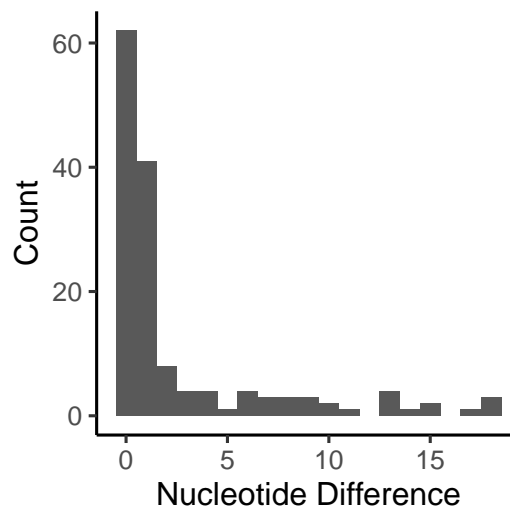
IGHV4-39*02_C258G

275 sequences assigned
114 (41.5%) exact matches, in which:
82 unique CDR3
5 unique J



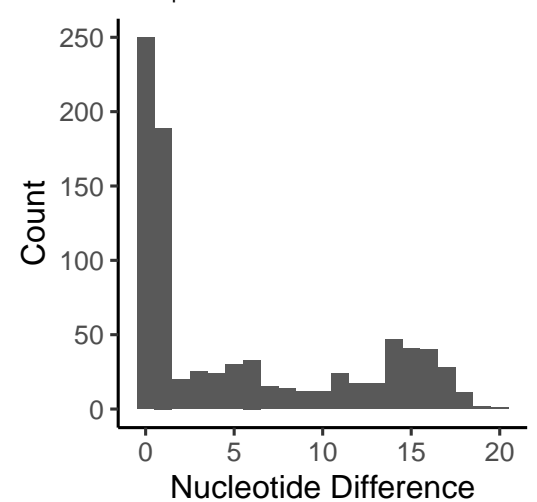
IGHV4-61*01

171 sequences assigned
62 (36.3%) exact matches, in which:
52 unique CDR3
6 unique J



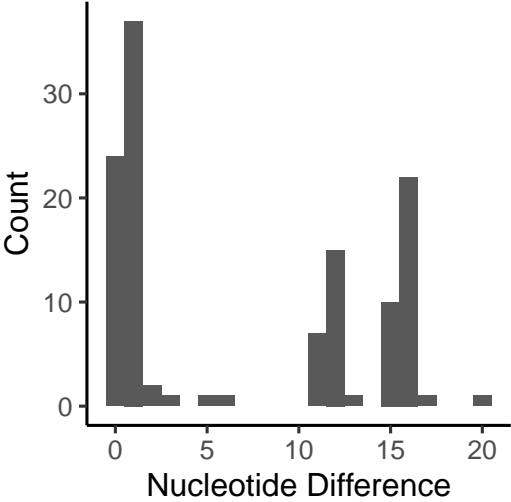
IGHV5-51*07_A128G

875 sequences assigned
250 (28.6%) exact matches, in which:
121 unique CDR3
6 unique J



IGHV6-1*01_02

164 sequences assigned
24 (14.6%) exact matches, in which:
15 unique CDR3
4 unique J





Warning – no inferred sequences found.