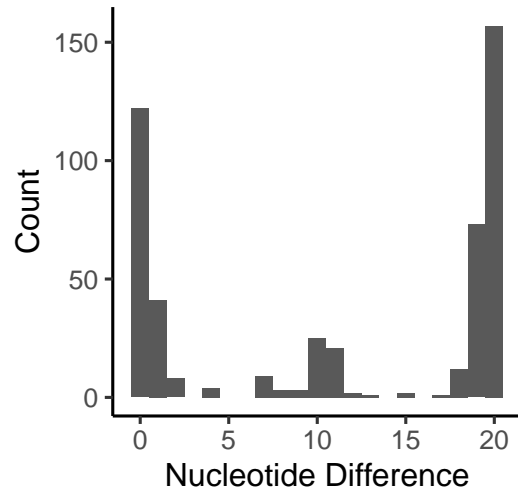


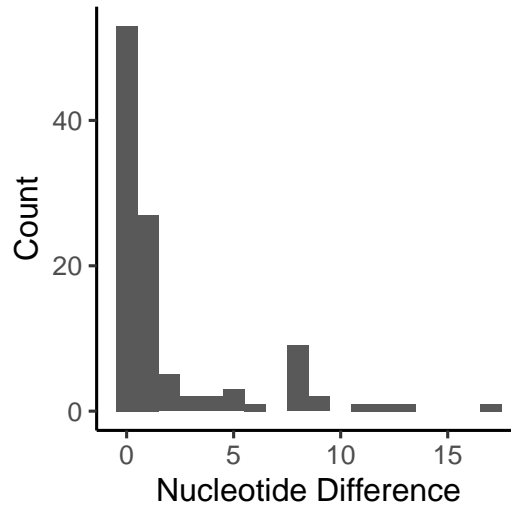
IGHV1-2*02

506 sequences assigned
122 (24.1%) exact matches, in which:
111 unique CDR3
5 unique J



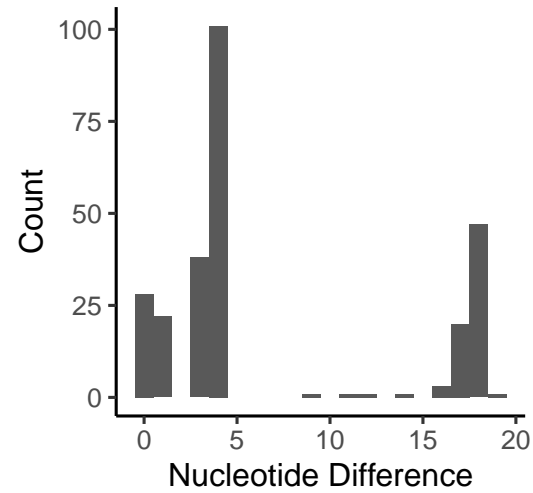
IGHV1-3*01_05

108 sequences assigned
53 (49.1%) exact matches, in which:
51 unique CDR3
5 unique J



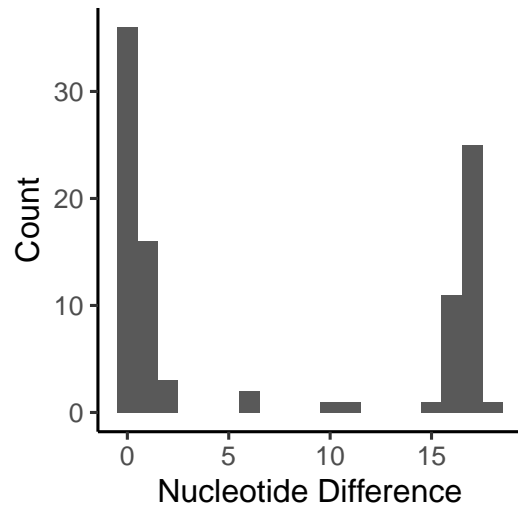
IGHV1-24*01

266 sequences assigned
28 (10.5%) exact matches, in which:
24 unique CDR3
5 unique J



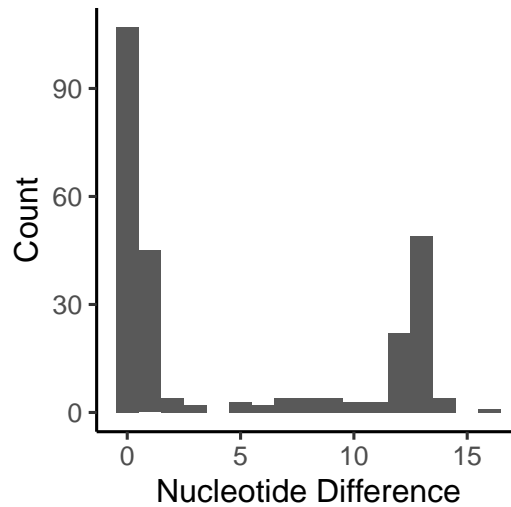
IGHV1-2*04

98 sequences assigned
36 (36.7%) exact matches, in which:
28 unique CDR3
5 unique J



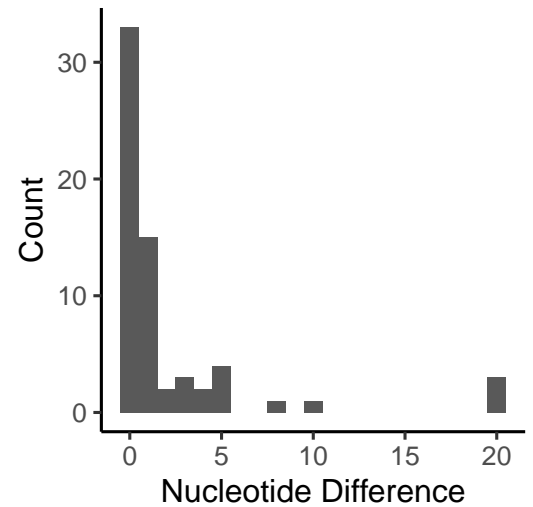
IGHV1-8*01

258 sequences assigned
107 (41.5%) exact matches, in which:
92 unique CDR3
4 unique J



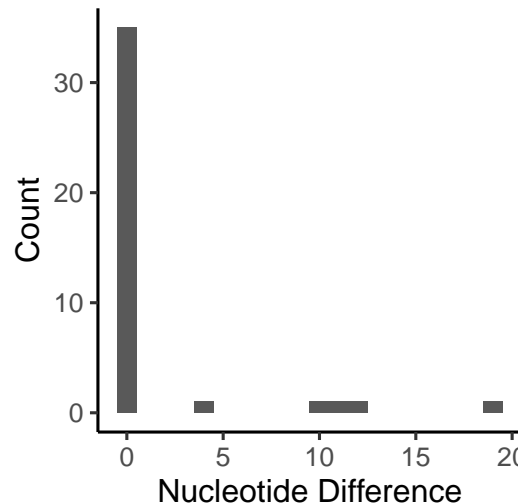
IGHV1-46*01

68 sequences assigned
33 (48.5%) exact matches, in which:
29 unique CDR3
4 unique J



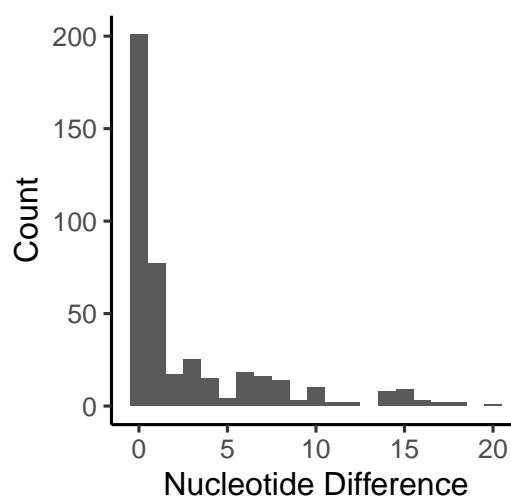
IGHV1-2*02_A81C

40 sequences assigned
35 (87.5%) exact matches, in which:
35 unique CDR3
5 unique J



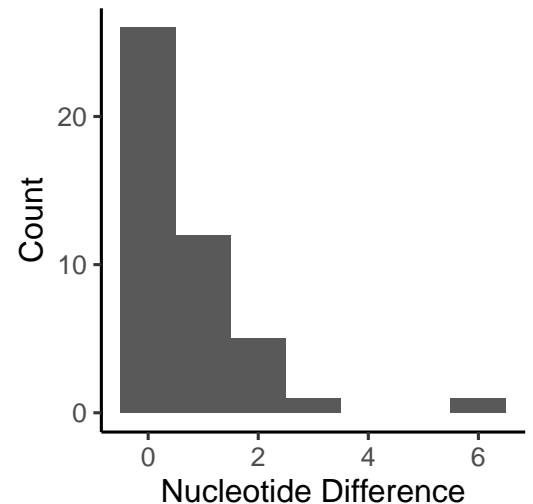
IGHV1-18*04

602 sequences assigned
201 (33.4%) exact matches, in which:
166 unique CDR3
6 unique J



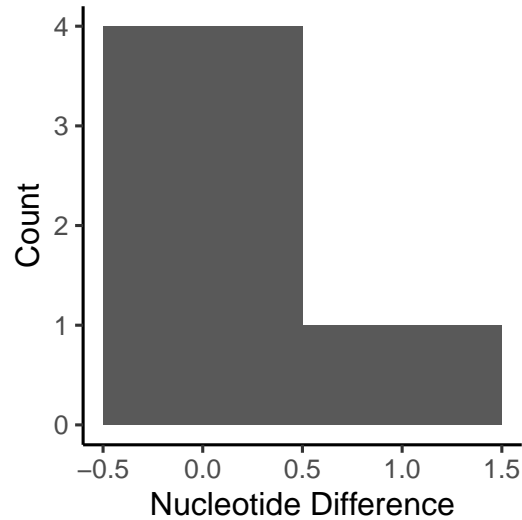
IGHV1-46*03

45 sequences assigned
26 (57.8%) exact matches, in which:
22 unique CDR3
5 unique J



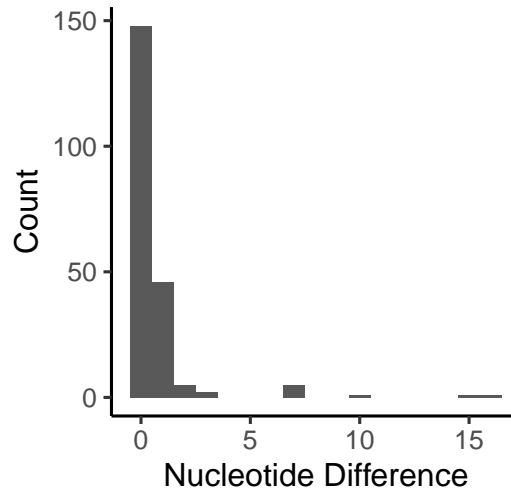
IGHV1-58*02

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
3 unique J



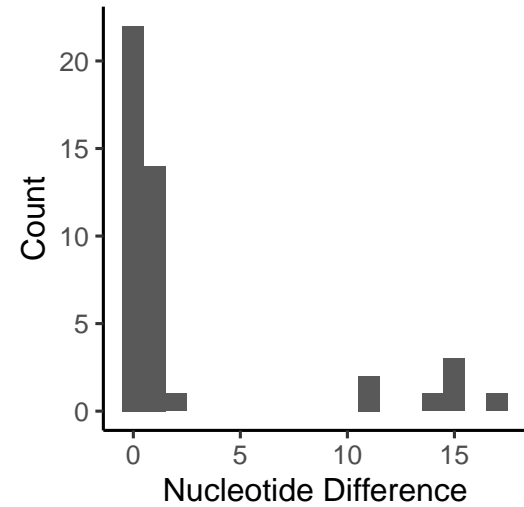
IGHV1-69*01_12_13

212 sequences assigned
148 (69.8%) exact matches, in which:
140 unique CDR3
6 unique J



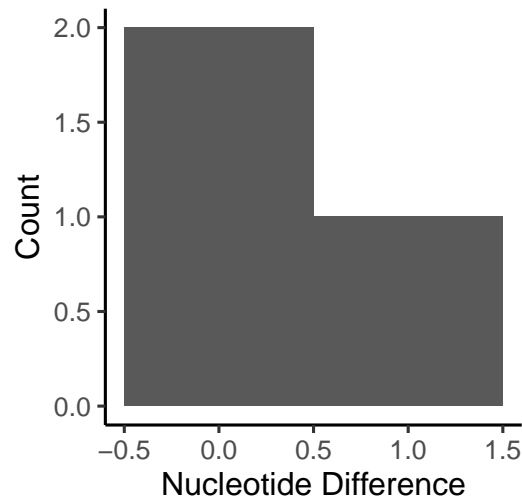
IGHV2-5*01

182 sequences assigned
22 (12.1%) exact matches, in which:
19 unique CDR3
4 unique J



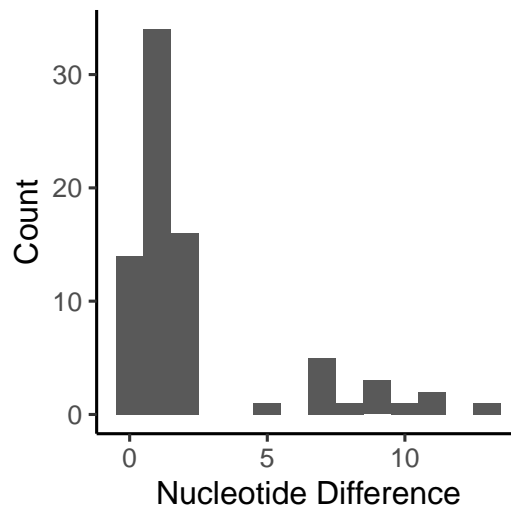
IGHV1-58*01_03

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



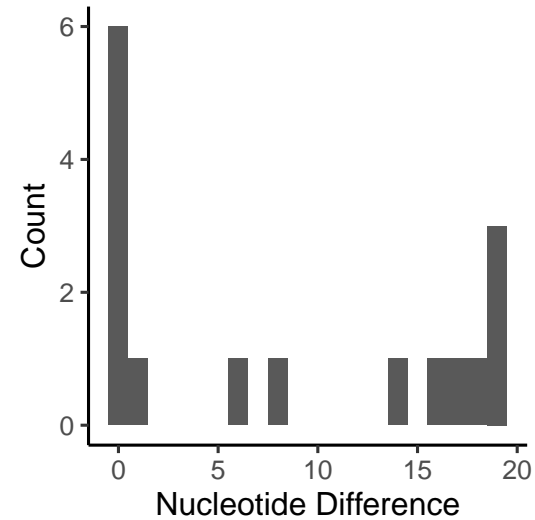
IGHV1-69*04_09

78 sequences assigned
14 (17.9%) exact matches, in which:
14 unique CDR3
3 unique J



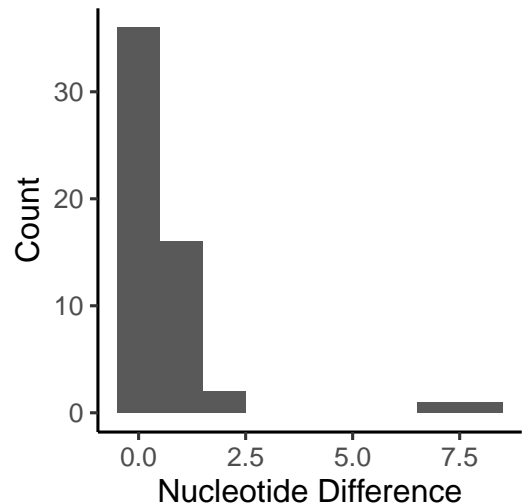
IGHV2-5*02

196 sequences assigned
6 (3.1%) exact matches, in which:
6 unique CDR3
3 unique J



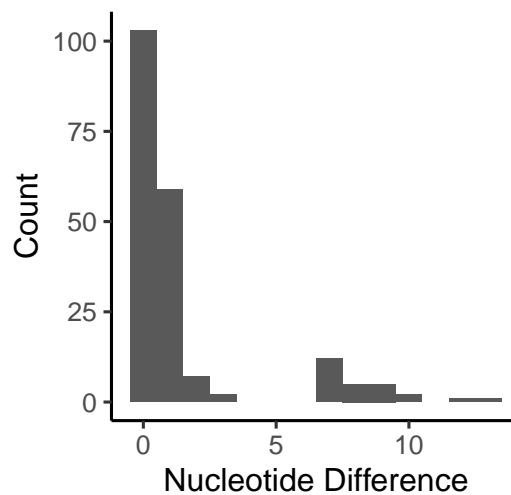
IGHV1-69*02

56 sequences assigned
36 (64.3%) exact matches, in which:
35 unique CDR3
5 unique J



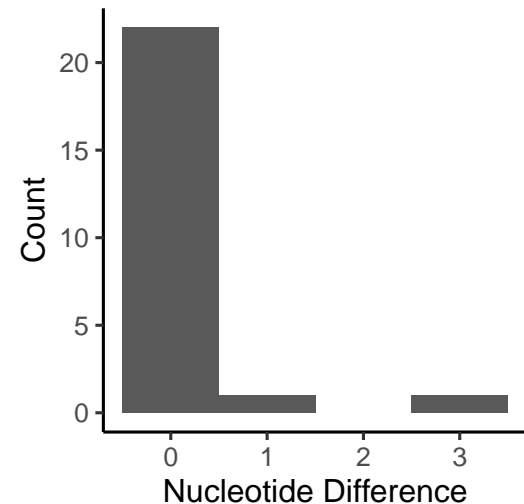
IGHV1-69*06_14

200 sequences assigned
103 (51.5%) exact matches, in which:
96 unique CDR3
5 unique J



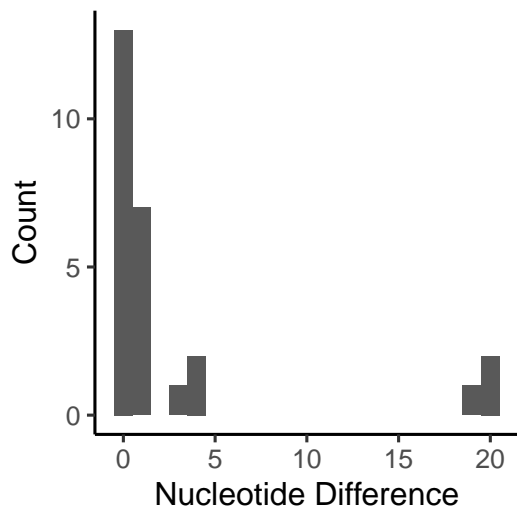
IGHV2-26*01

24 sequences assigned
22 (91.7%) exact matches, in which:
20 unique CDR3
5 unique J



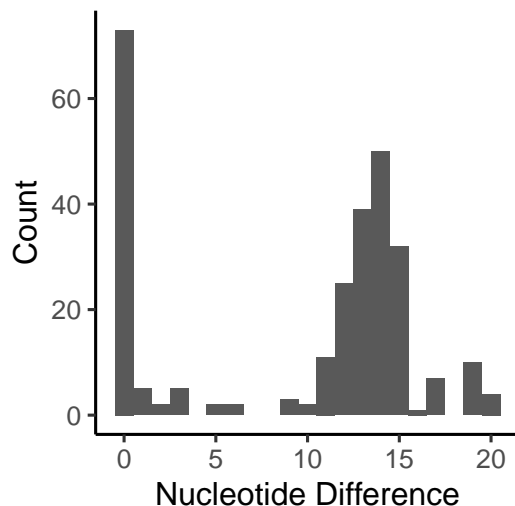
IGHV2-70*01

26 sequences assigned
13 (50%) exact matches, in which:
12 unique CDR3
3 unique J



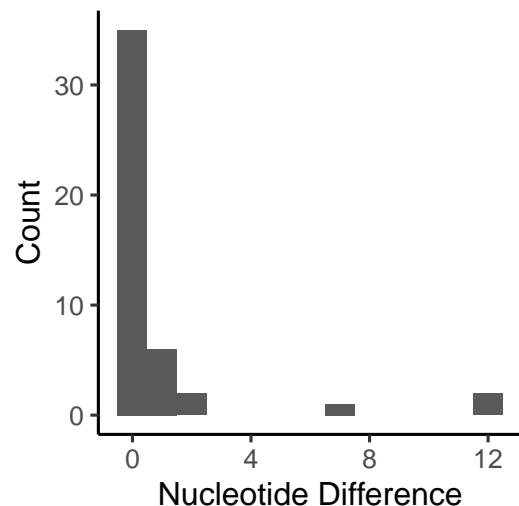
IGHV3-7*03

286 sequences assigned
73 (25.5%) exact matches, in which:
36 unique CDR3
5 unique J



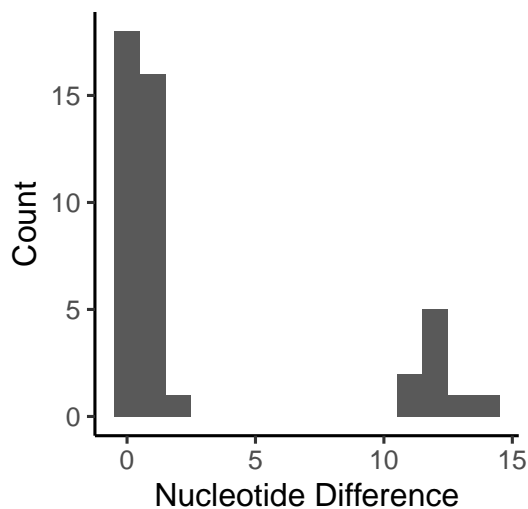
IGHV3-11*06

80 sequences assigned
35 (43.8%) exact matches, in which:
16 unique CDR3
6 unique J



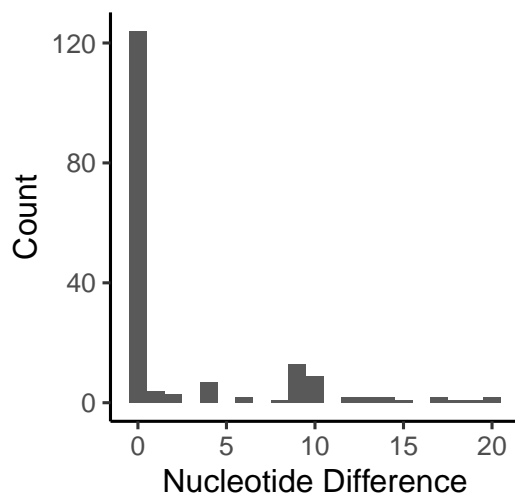
IGHV2-70*11_15

44 sequences assigned
18 (40.9%) exact matches, in which:
17 unique CDR3
4 unique J



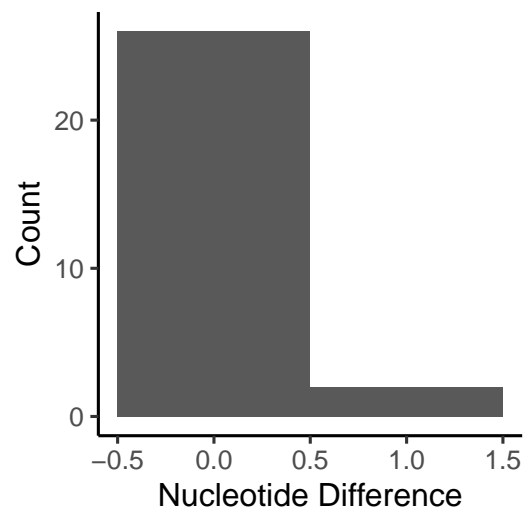
IGHV3-9*01

181 sequences assigned
124 (68.5%) exact matches, in which:
63 unique CDR3
6 unique J



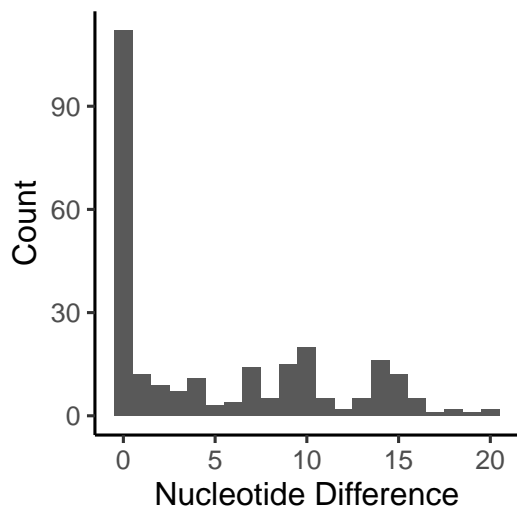
IGHV3-13*01

28 sequences assigned
26 (92.9%) exact matches, in which:
14 unique CDR3
5 unique J



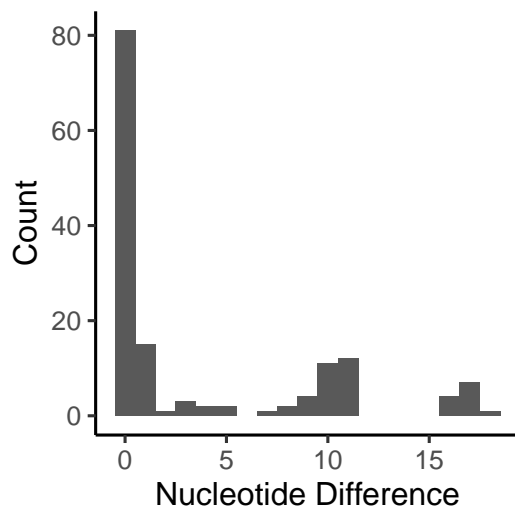
IGHV3-7*01

271 sequences assigned
112 (41.3%) exact matches, in which:
56 unique CDR3
5 unique J



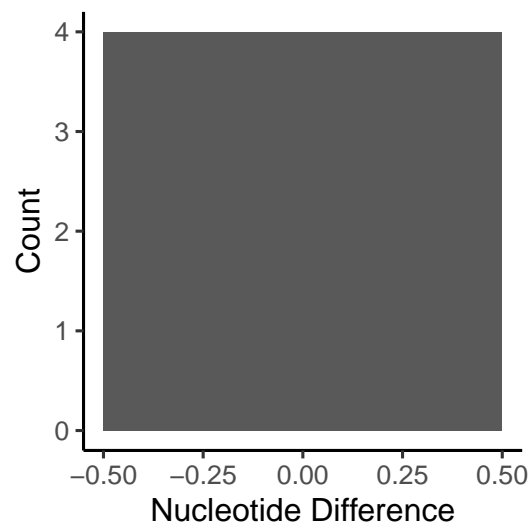
IGHV3-11*01

151 sequences assigned
81 (53.6%) exact matches, in which:
39 unique CDR3
4 unique J



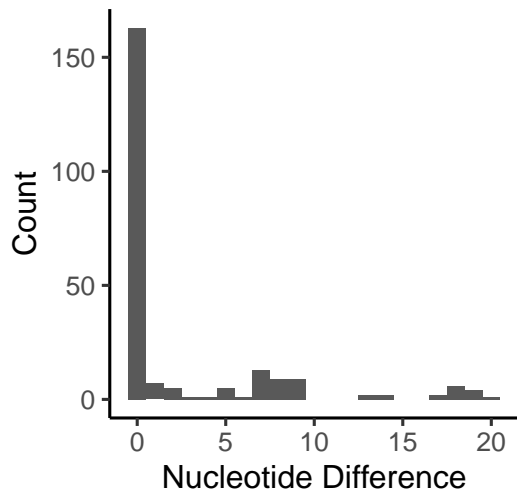
IGHV3-13*05

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



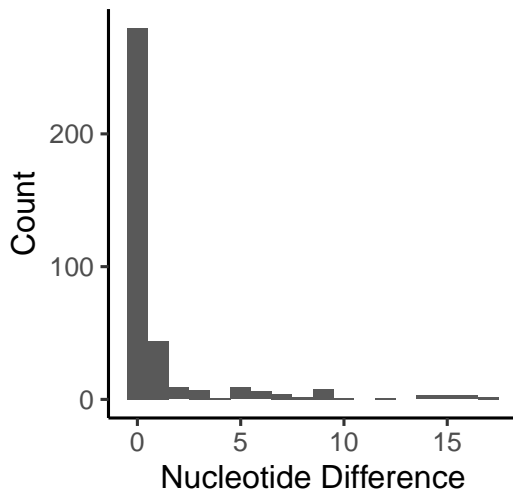
IGHV3-15*01_02

246 sequences assigned
163 (66.3%) exact matches, in which:
84 unique CDR3
4 unique J



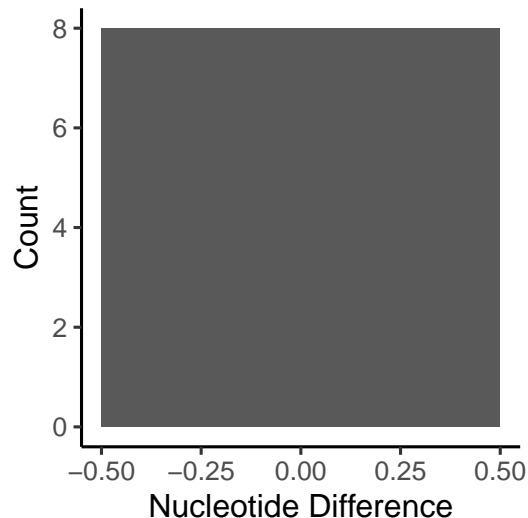
IGHV3-21*01_02

388 sequences assigned
280 (72.2%) exact matches, in which:
141 unique CDR3
6 unique J



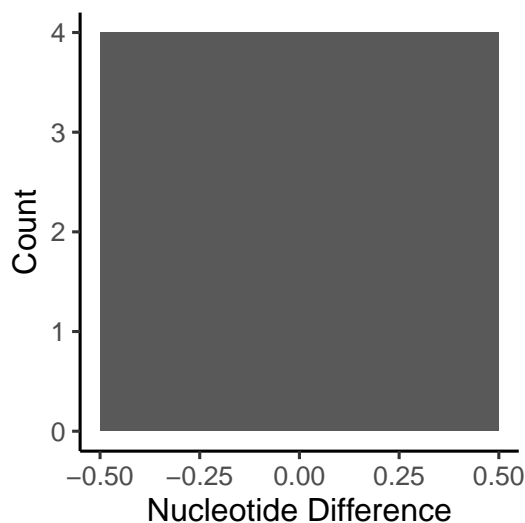
IGHV3-43*01

13 sequences assigned
8 (61.5%) exact matches, in which:
3 unique CDR3
2 unique J



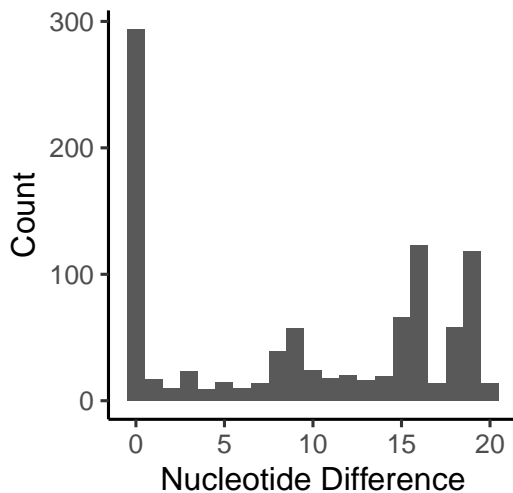
IGHV3-19*01

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



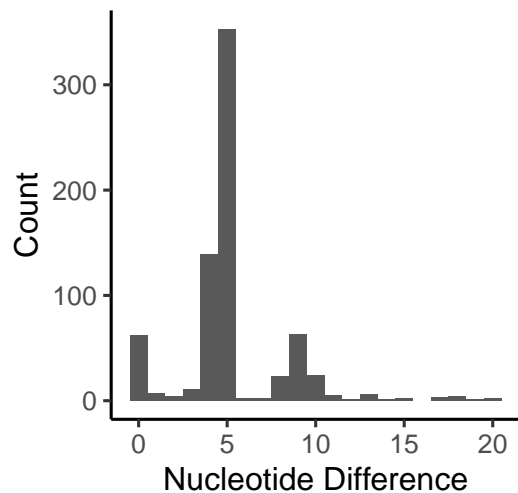
IGHV3-23*01_04

1109 sequences assigned
294 (26.5%) exact matches, in which:
150 unique CDR3
6 unique J



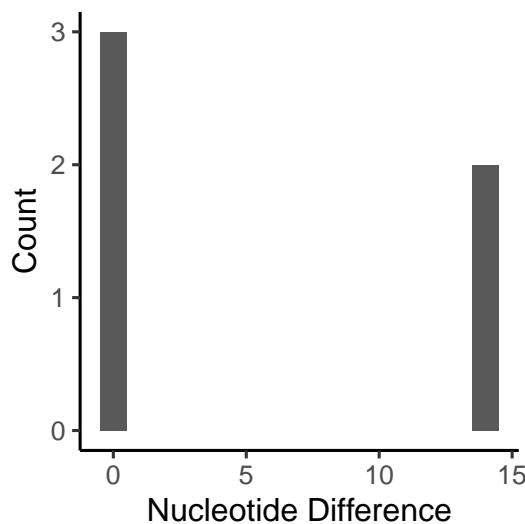
IGHV3-48*02

737 sequences assigned
62 (8.4%) exact matches, in which:
30 unique CDR3
5 unique J



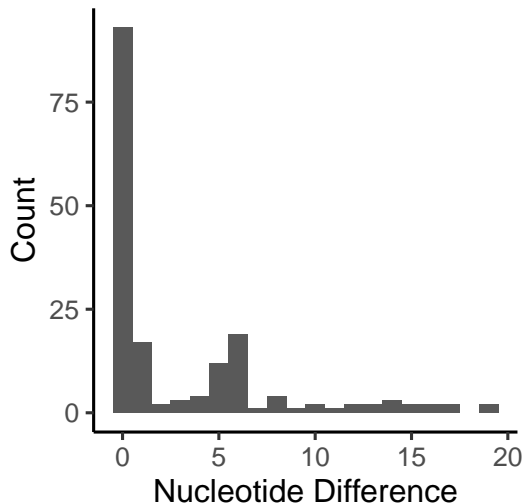
IGHV3-20*01_02

5 sequences assigned
3 (60%) exact matches, in which:
2 unique CDR3
2 unique J



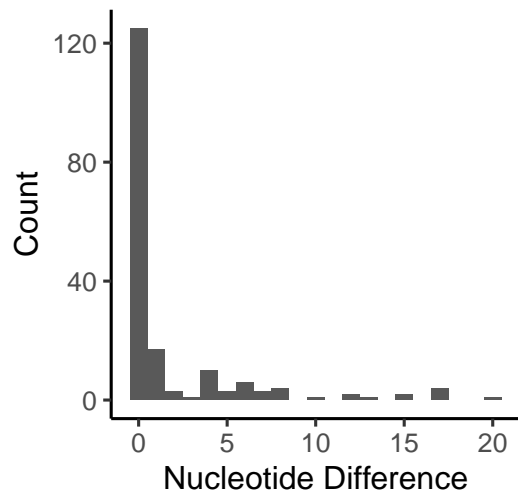
IGHV3-33*01

185 sequences assigned
93 (50.3%) exact matches, in which:
52 unique CDR3
4 unique J



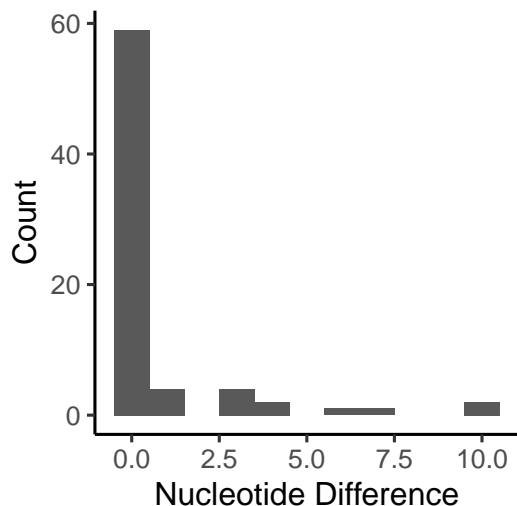
IGHV3-48*03

184 sequences assigned
125 (67.9%) exact matches, in which:
68 unique CDR3
5 unique J



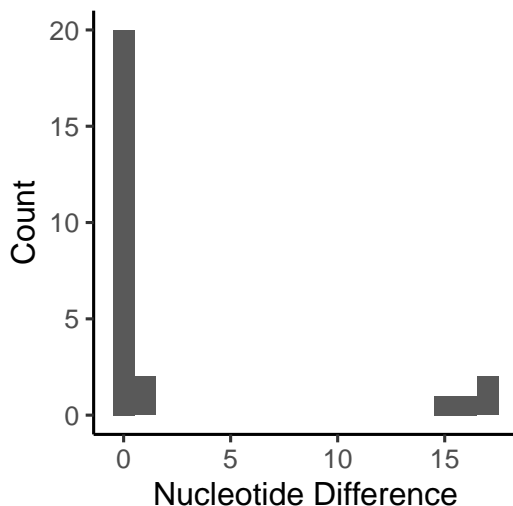
IGHV3-49*04

74 sequences assigned
59 (79.7%) exact matches, in which:
32 unique CDR3
4 unique J



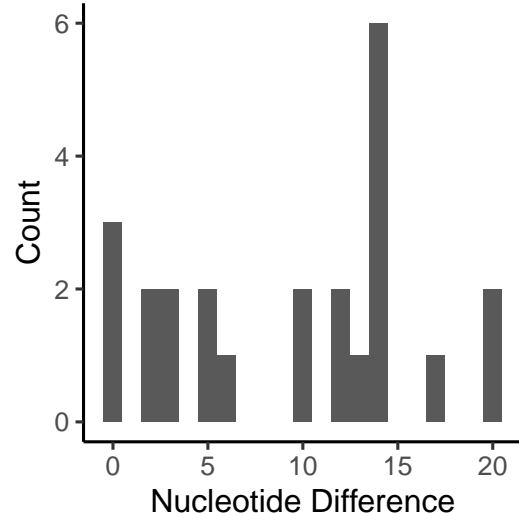
IGHV3-64*01

27 sequences assigned
20 (74.1%) exact matches, in which:
10 unique CDR3
2 unique J



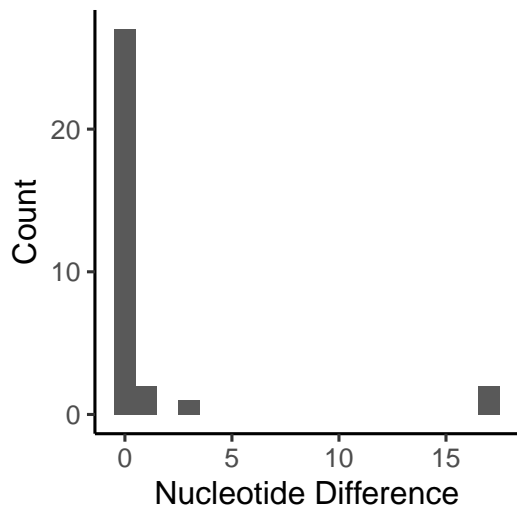
IGHV3-72*01

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



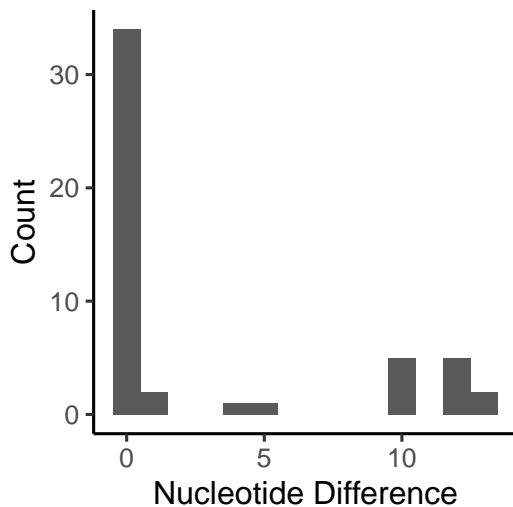
IGHV3-53*04

47 sequences assigned
27 (57.4%) exact matches, in which:
14 unique CDR3
5 unique J



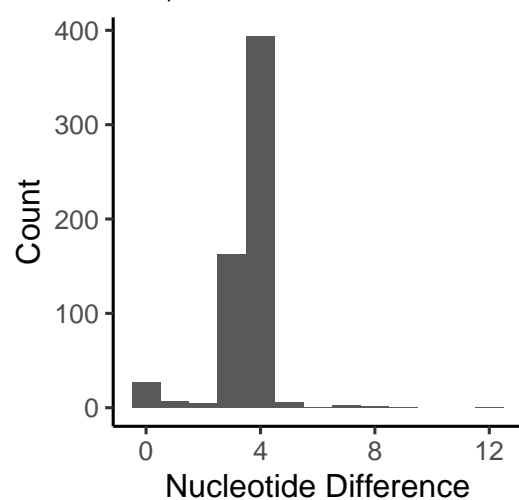
IGHV3-66*01

50 sequences assigned
34 (68%) exact matches, in which:
16 unique CDR3
3 unique J



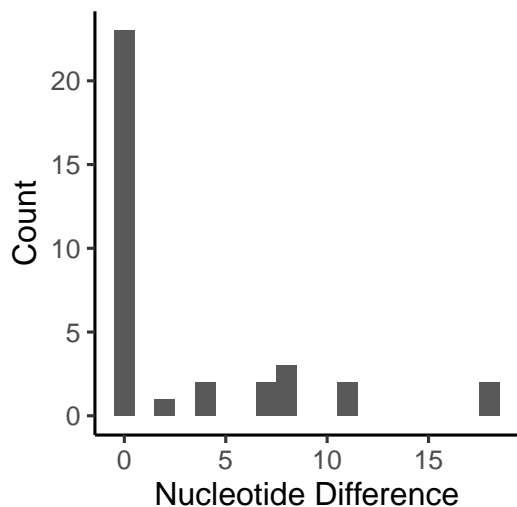
IGHV3-73*01_02

616 sequences assigned
27 (4.4%) exact matches, in which:
14 unique CDR3
5 unique J



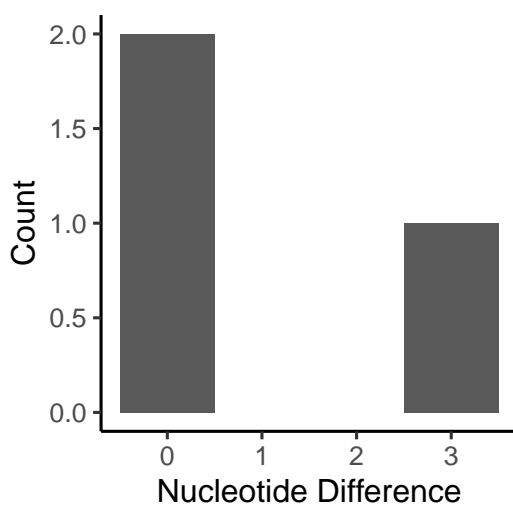
IGHV3-53*01_02

45 sequences assigned
23 (51.1%) exact matches, in which:
10 unique CDR3
5 unique J



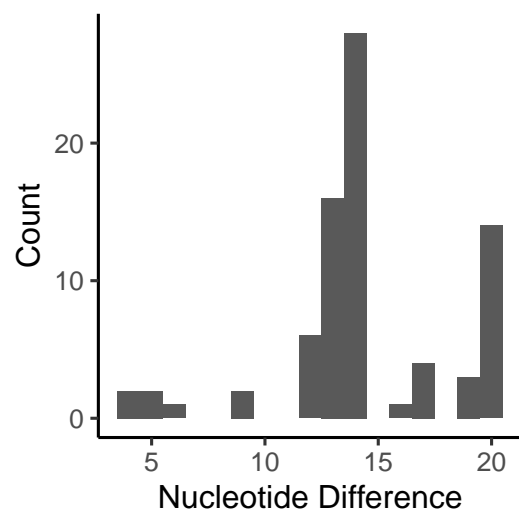
IGHV3-69-1*01

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



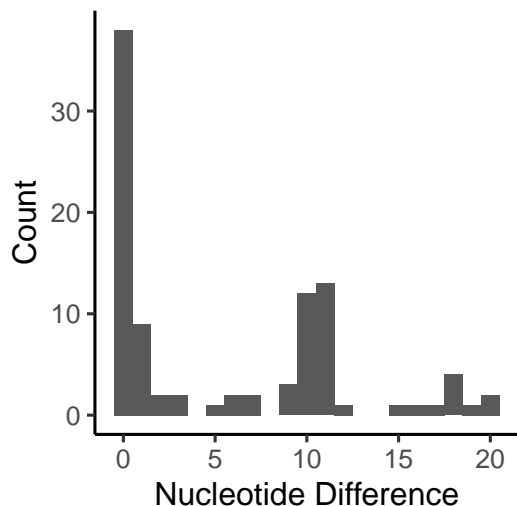
IGHV3-74*03

106 sequences assigned
No exact matches.



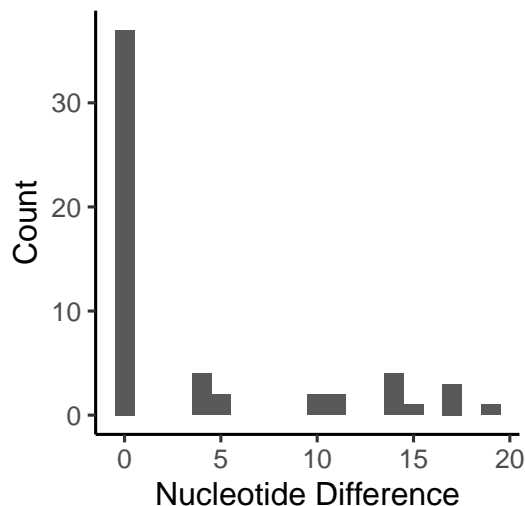
IGHV3-74*01_02

105 sequences assigned
38 (36.2%) exact matches, in which:
19 unique CDR3
4 unique J



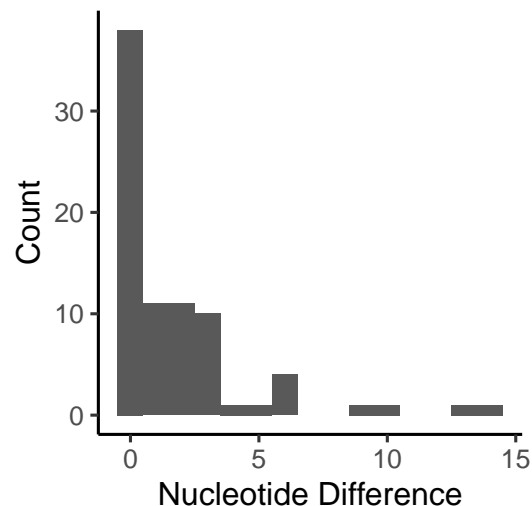
IGHV3-64D*06

73 sequences assigned
37 (50.7%) exact matches, in which:
18 unique CDR3
6 unique J



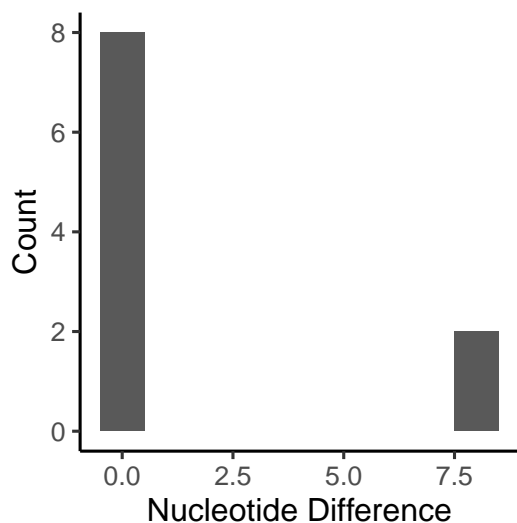
IGHV4-30-4*01

82 sequences assigned
38 (46.3%) exact matches, in which:
37 unique CDR3
4 unique J



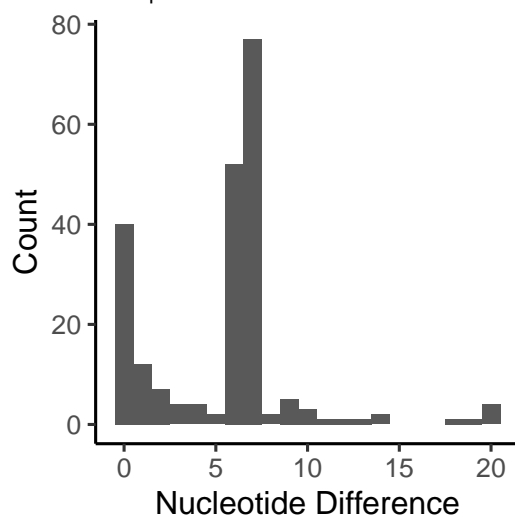
IGHV3-43D*03

10 sequences assigned
8 (80%) exact matches, in which:
4 unique CDR3
2 unique J



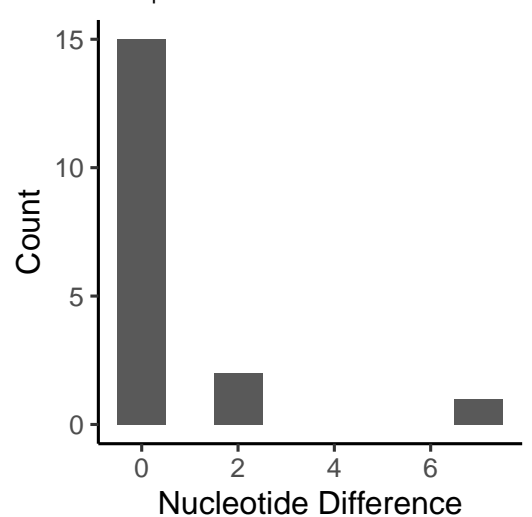
IGHV4-4*07

251 sequences assigned
40 (15.9%) exact matches, in which:
36 unique CDR3
5 unique J



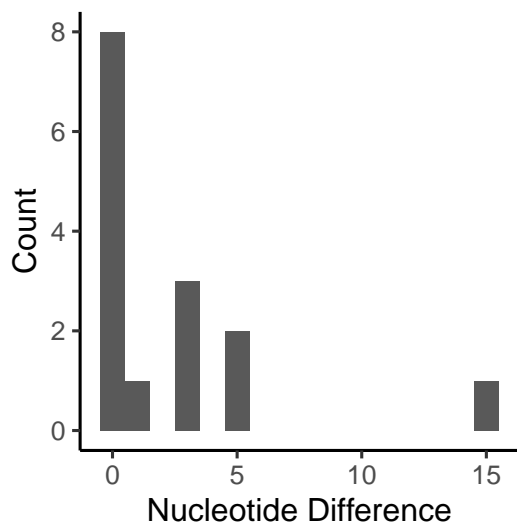
IGHV4-30-2*01

18 sequences assigned
15 (83.3%) exact matches, in which:
10 unique CDR3
4 unique J



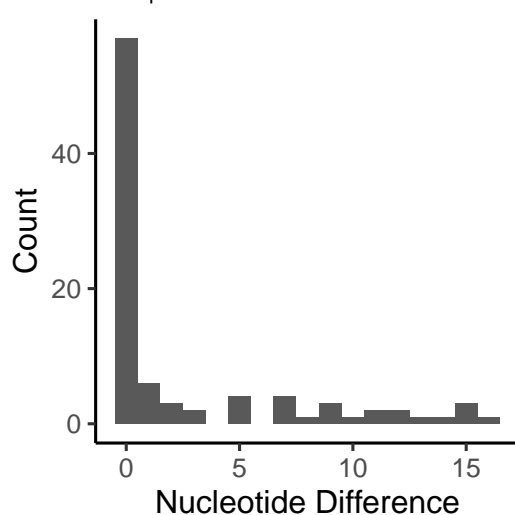
IGHV3-43D*04

15 sequences assigned
8 (53.3%) exact matches, in which:
4 unique CDR3
2 unique J



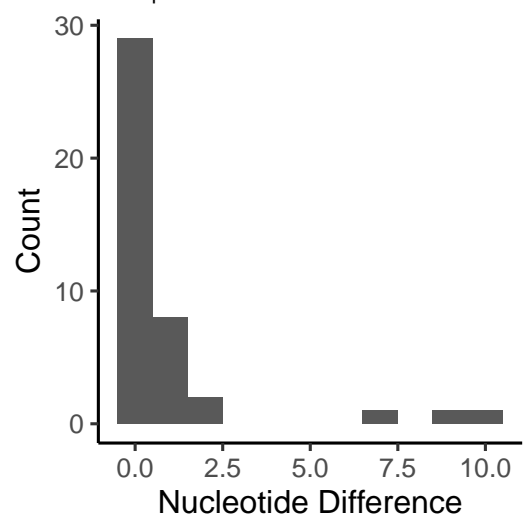
IGHV4-4*02_03

98 sequences assigned
57 (58.2%) exact matches, in which:
44 unique CDR3
5 unique J



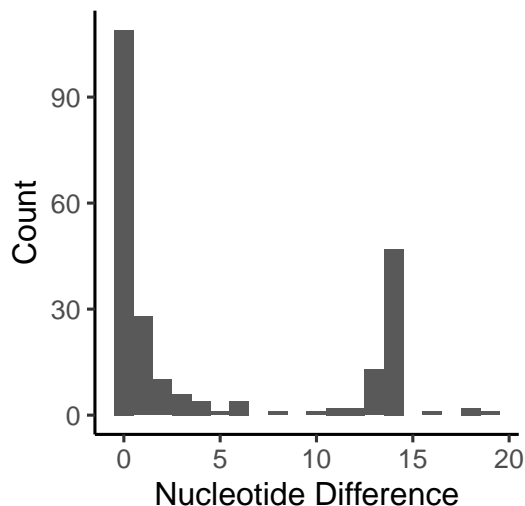
IGHV4-30-4*07

44 sequences assigned
29 (65.9%) exact matches, in which:
25 unique CDR3
6 unique J



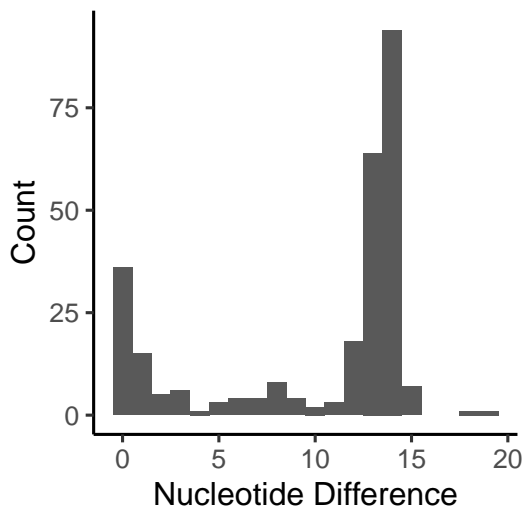
IGHV4-31*02

240 sequences assigned
109 (45.4%) exact matches, in which:
99 unique CDR3
5 unique J



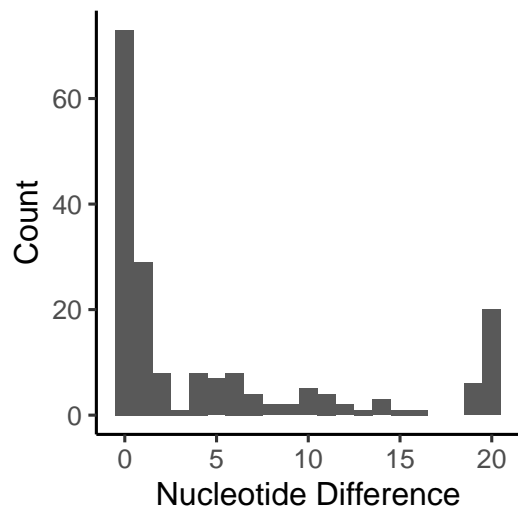
IGHV4-38-2*02

277 sequences assigned
36 (13%) exact matches, in which:
32 unique CDR3
5 unique J



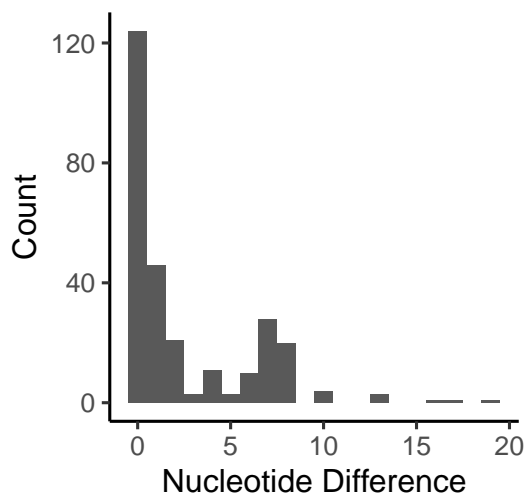
IGHV4-59*08

233 sequences assigned
73 (31.3%) exact matches, in which:
66 unique CDR3
5 unique J



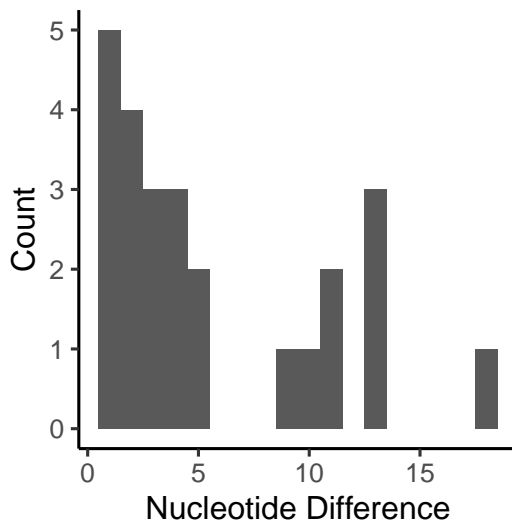
IGHV4-34*01_02

287 sequences assigned
124 (43.2%) exact matches, in which:
84 unique CDR3
6 unique J



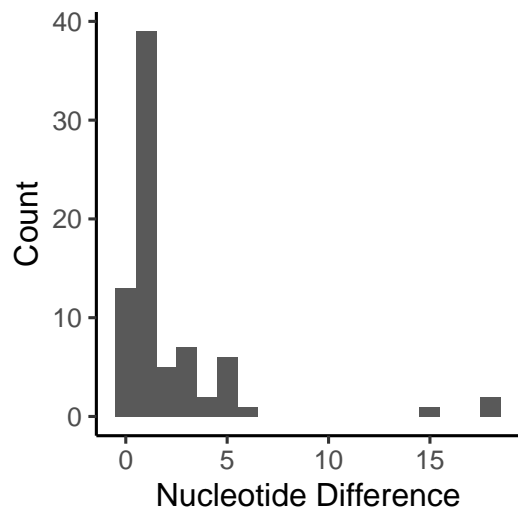
IGHV4-39*07

26 sequences assigned
No exact matches.



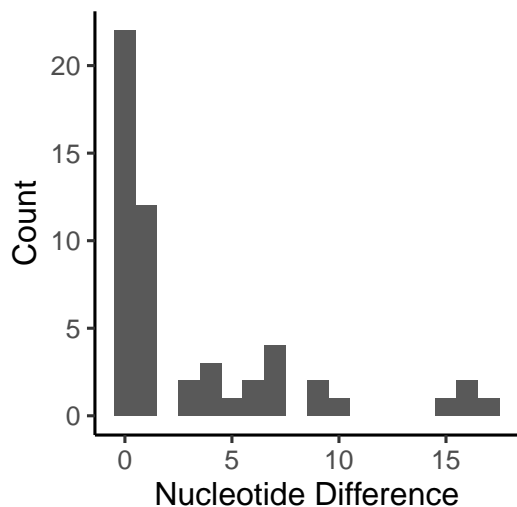
IGHV4-59*12

76 sequences assigned
13 (17.1%) exact matches, in which:
13 unique CDR3
4 unique J



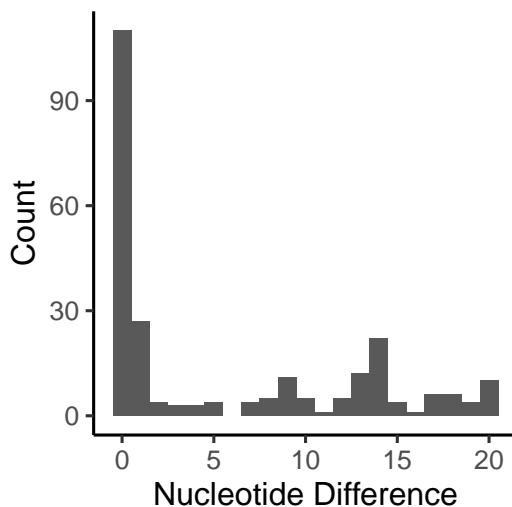
IGHV4-38-2*01

53 sequences assigned
22 (41.5%) exact matches, in which:
21 unique CDR3
6 unique J



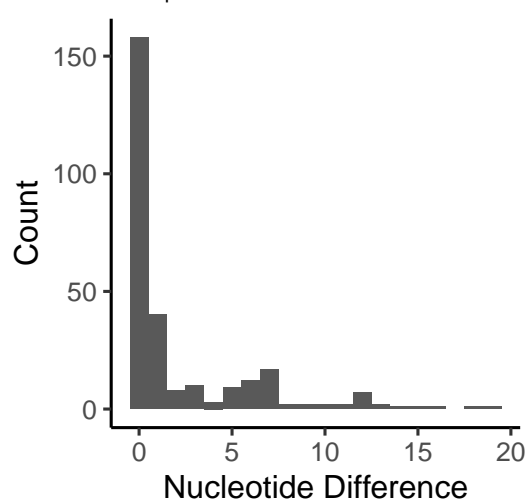
IGHV4-39*02_C258G

446 sequences assigned
110 (24.7%) exact matches, in which:
96 unique CDR3
6 unique J



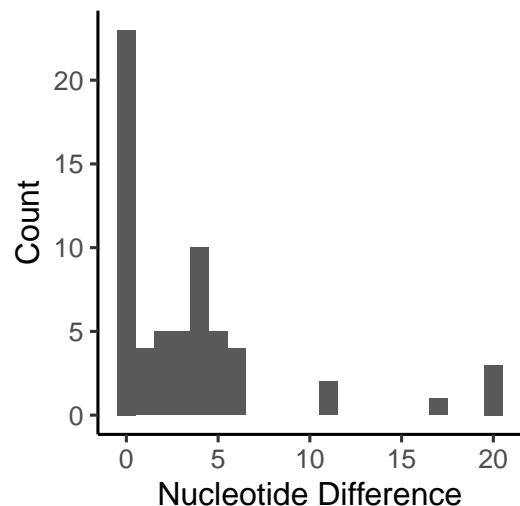
IGHV4-59*02_G88A

312 sequences assigned
158 (50.6%) exact matches, in which:
143 unique CDR3
6 unique J



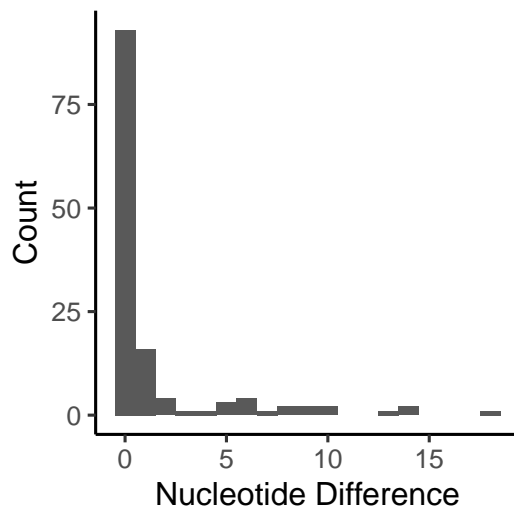
IGHV4-61*01

65 sequences assigned
23 (35.4%) exact matches, in which:
21 unique CDR3
4 unique J



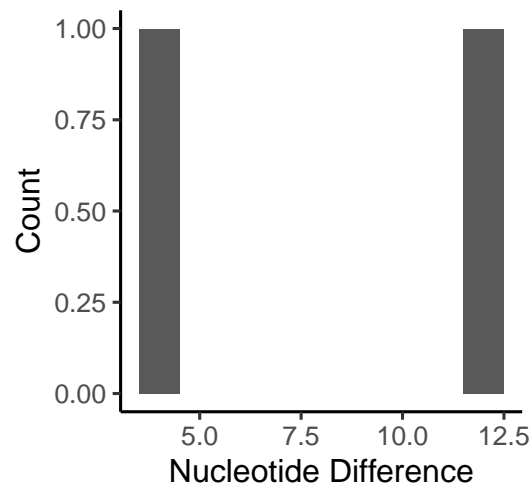
IGHV5-10-1*01_03

137 sequences assigned
93 (67.9%) exact matches, in which:
53 unique CDR3
5 unique J



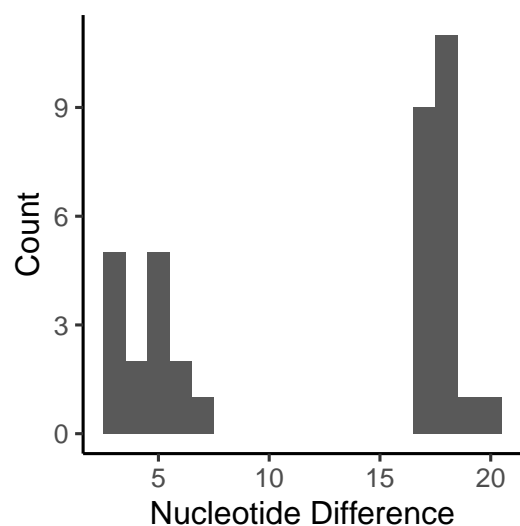
IGHV7-4-1*02

2 sequences assigned
No exact matches.



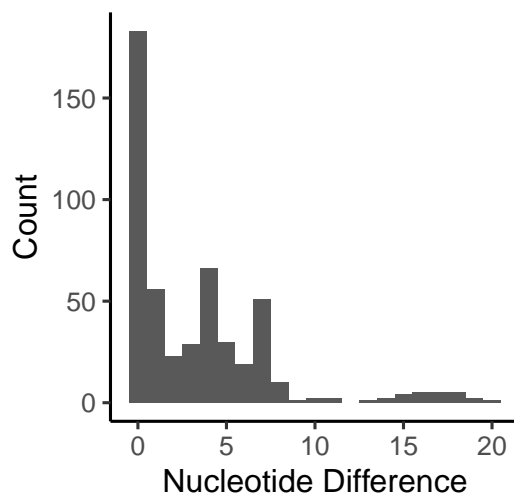
IGHV4-61*08

37 sequences assigned
No exact matches.



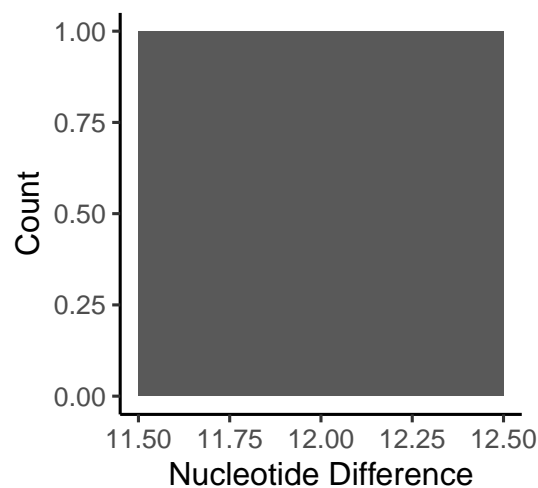
IGHV5-51*07_A128G

505 sequences assigned
183 (36.2%) exact matches, in which:
104 unique CDR3
6 unique J



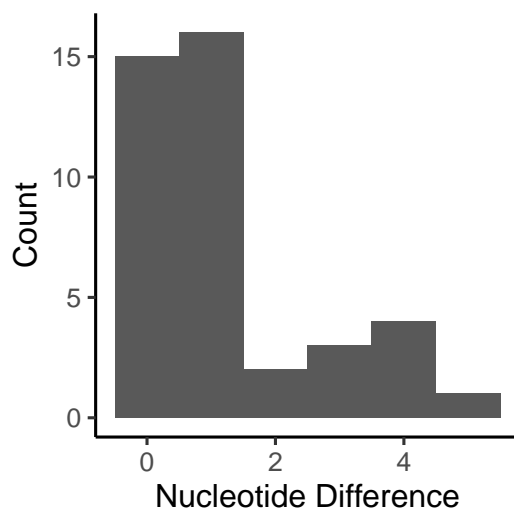
IGHV1/OR15-2*02_03

1 sequences assigned
No exact matches.



IGHV6-1*01_02

41 sequences assigned
15 (36.6%) exact matches, in which:
14 unique CDR3
3 unique J





Warning – no inferred sequences found.