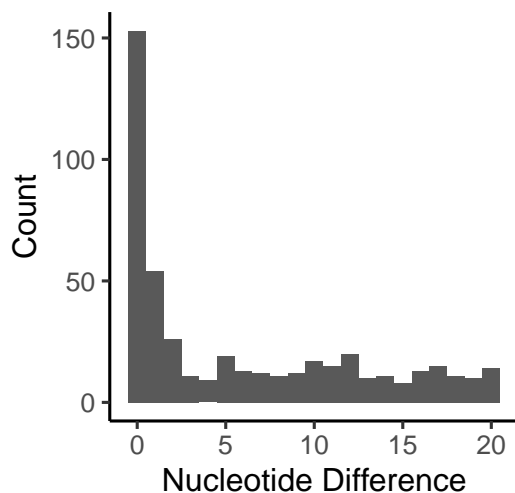


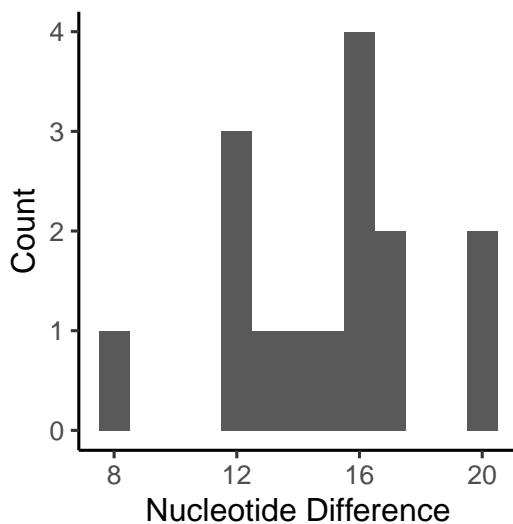
IGHV1-2*02

622 sequences assigned
153 (24.6%) exact matches, in which:
151 unique CDR3
6 unique J



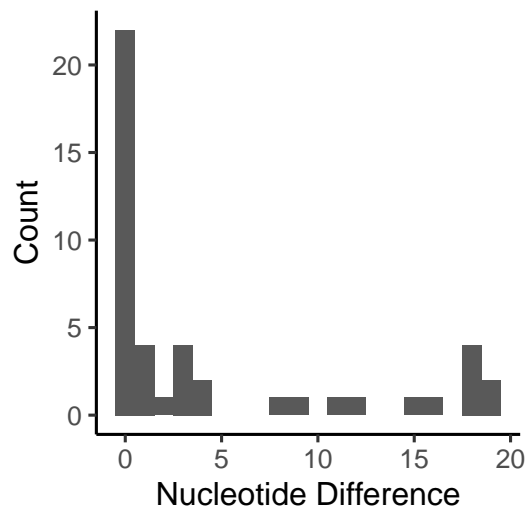
IGHV1-3*04

25 sequences assigned
No exact matches.



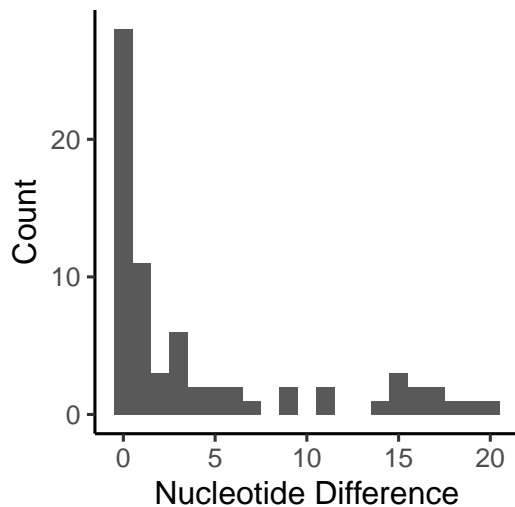
IGHV1-24*01

52 sequences assigned
22 (42.3%) exact matches, in which:
22 unique CDR3
5 unique J



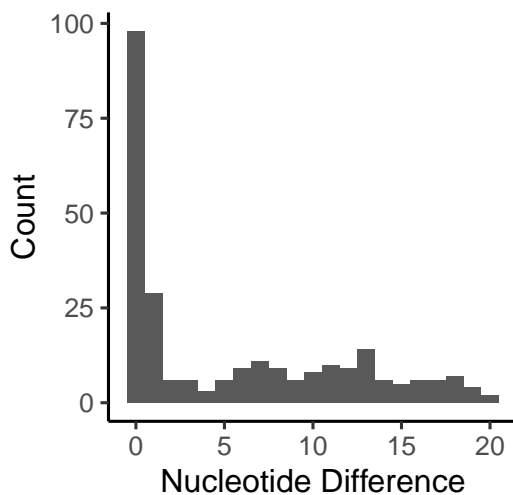
IGHV1-2*04

81 sequences assigned
28 (34.6%) exact matches, in which:
28 unique CDR3
4 unique J



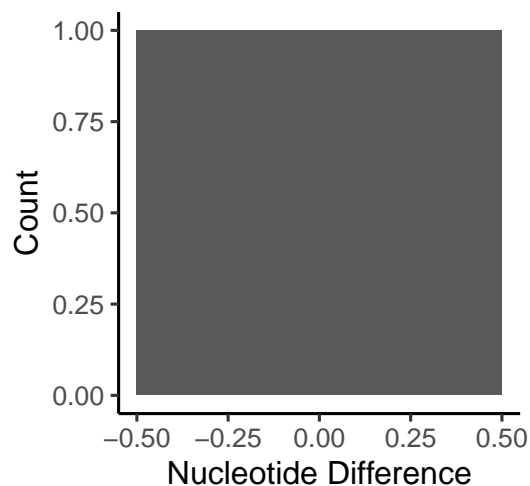
IGHV1-18*01

349 sequences assigned
98 (28.1%) exact matches, in which:
98 unique CDR3
5 unique J



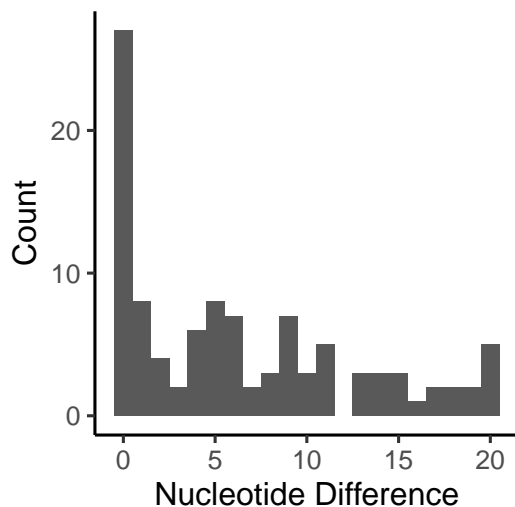
IGHV1-45*02

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



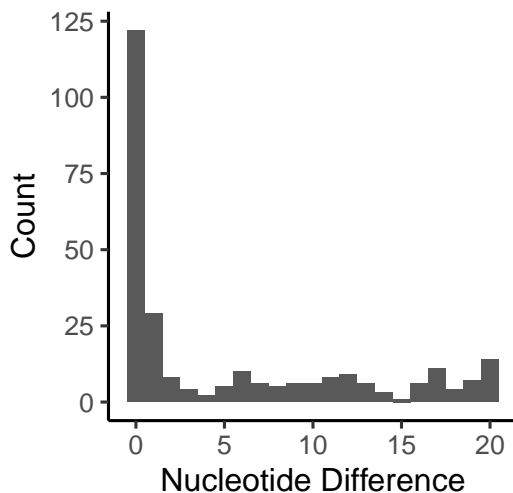
IGHV1-3*01

156 sequences assigned
27 (17.3%) exact matches, in which:
27 unique CDR3
3 unique J



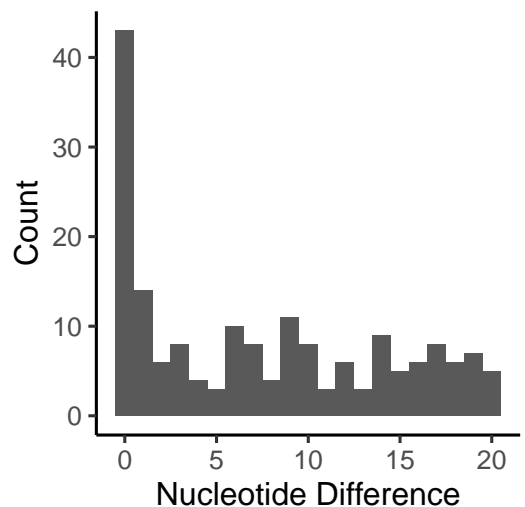
IGHV1-18*04

334 sequences assigned
122 (36.5%) exact matches, in which:
121 unique CDR3
4 unique J



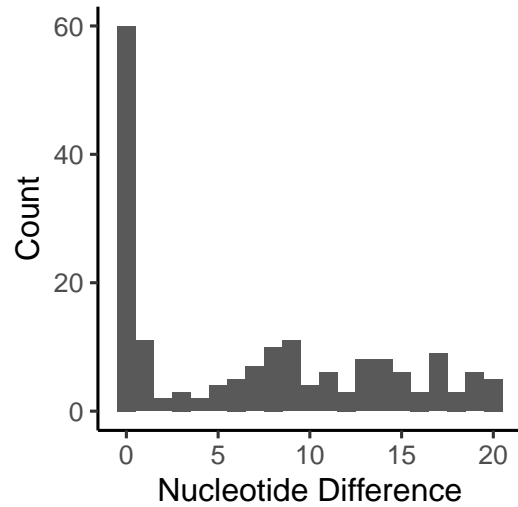
IGHV1-46*01

224 sequences assigned
43 (19.2%) exact matches, in which:
43 unique CDR3
5 unique J



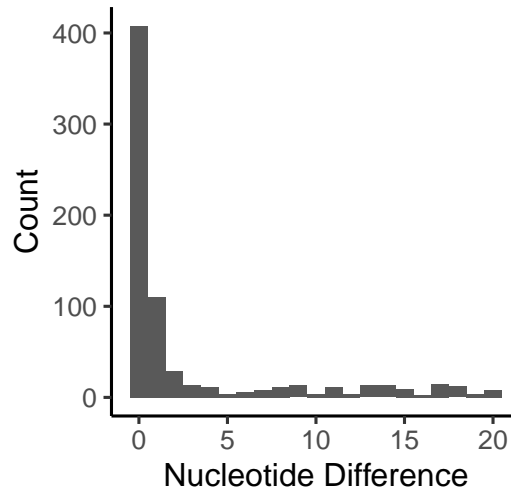
IGHV1-46*03

239 sequences assigned
60 (25.1%) exact matches, in which:
60 unique CDR3
5 unique J



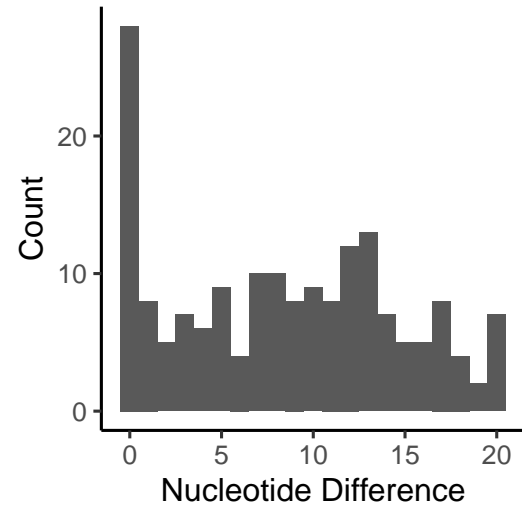
IGHV1-69*01

897 sequences assigned
408 (45.5%) exact matches, in which:
402 unique CDR3
6 unique J



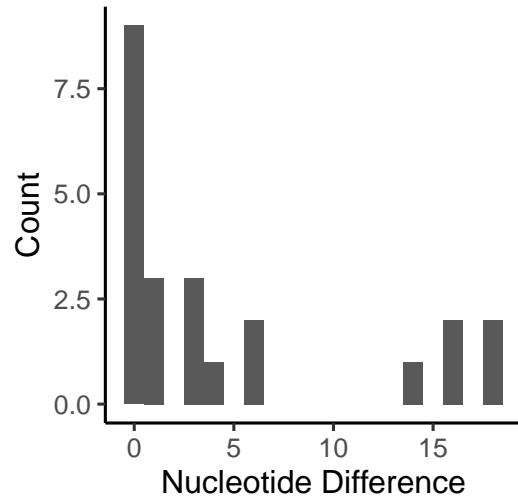
IGHV2-5*02

218 sequences assigned
28 (12.8%) exact matches, in which:
28 unique CDR3
4 unique J



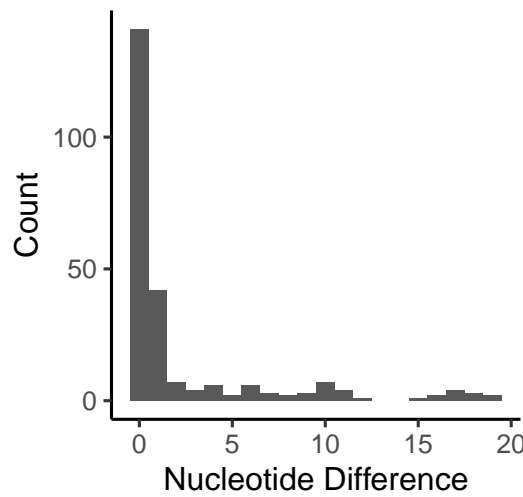
IGHV1-58*01

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



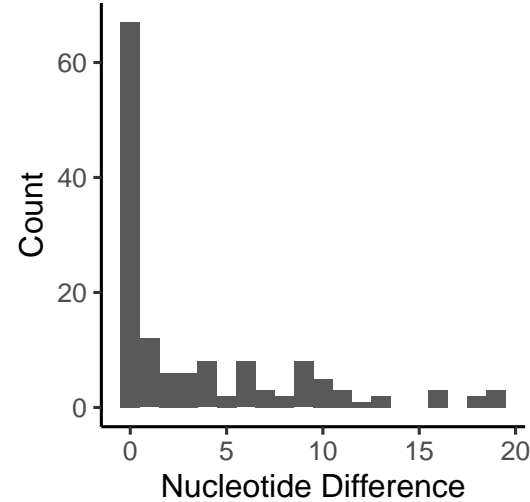
IGHV1-69*06

333 sequences assigned
141 (42.3%) exact matches, in which:
140 unique CDR3
6 unique J



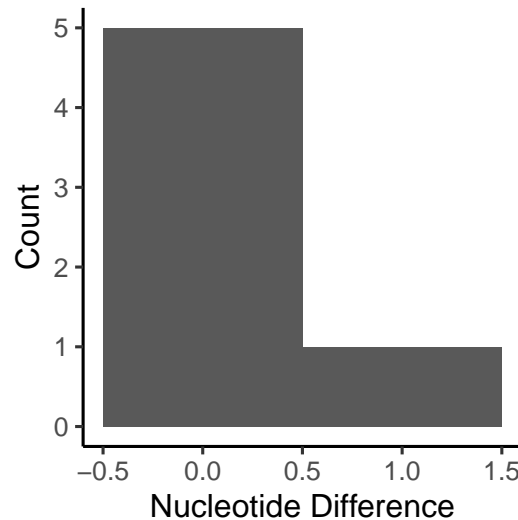
IGHV2-26*01

155 sequences assigned
67 (43.2%) exact matches, in which:
66 unique CDR3
5 unique J



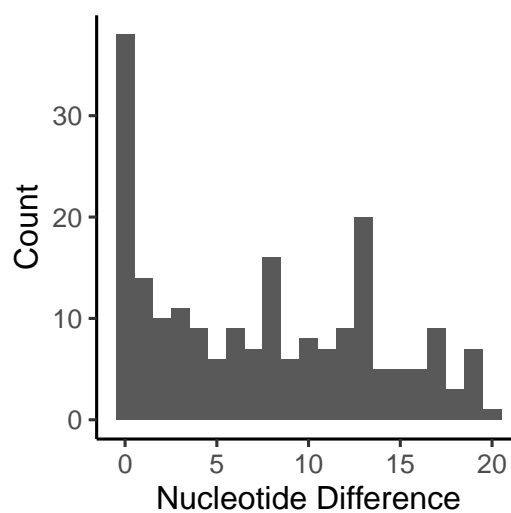
IGHV1-69-2*01

15 sequences assigned
5 (33.3%) exact matches, in which:
5 unique CDR3
3 unique J



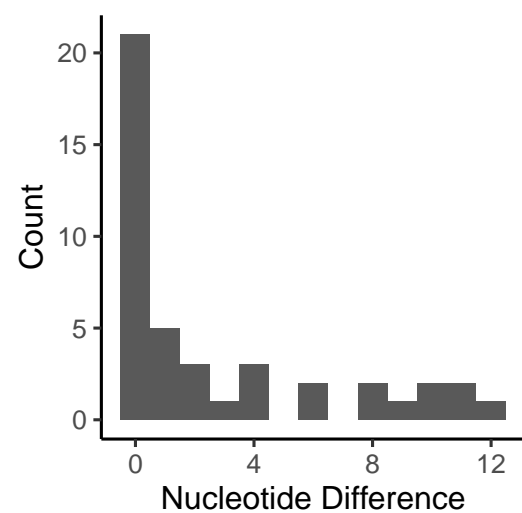
IGHV2-5*01

224 sequences assigned
38 (17%) exact matches, in which:
37 unique CDR3
5 unique J



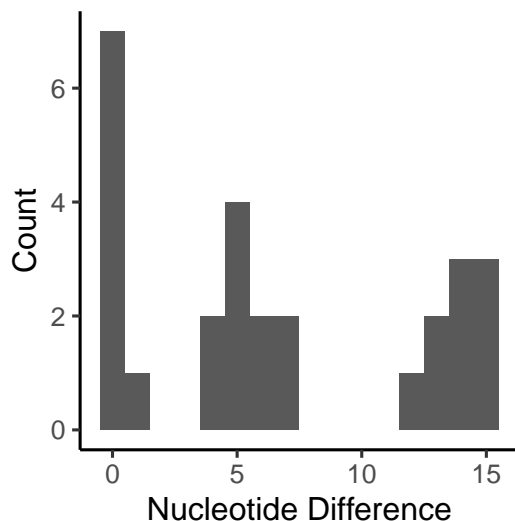
IGHV2-70*01

43 sequences assigned
21 (48.8%) exact matches, in which:
21 unique CDR3
4 unique J



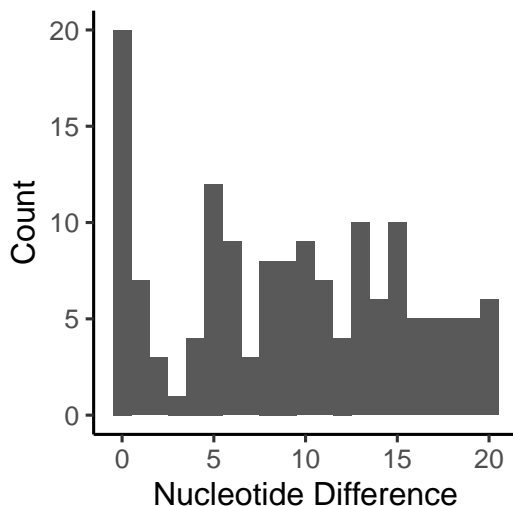
IGHV2-70*04

28 sequences assigned
7 (25%) exact matches, in which:
7 unique CDR3
3 unique J



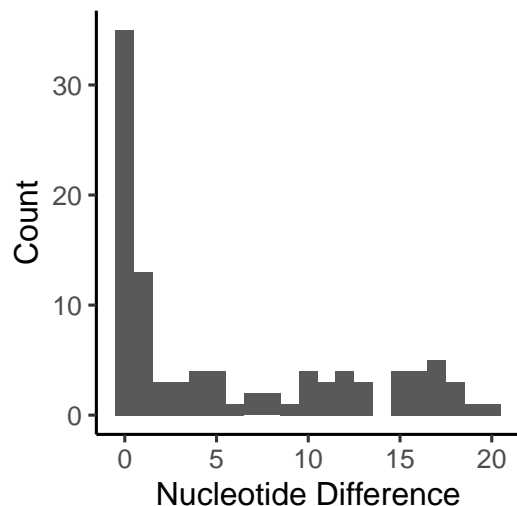
IGHV3-7*05

189 sequences assigned
20 (10.6%) exact matches, in which:
20 unique CDR3
3 unique J



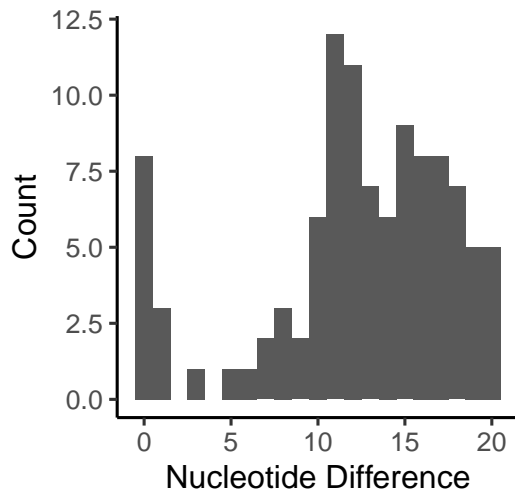
IGHV3-11*06

147 sequences assigned
35 (23.8%) exact matches, in which:
35 unique CDR3
5 unique J



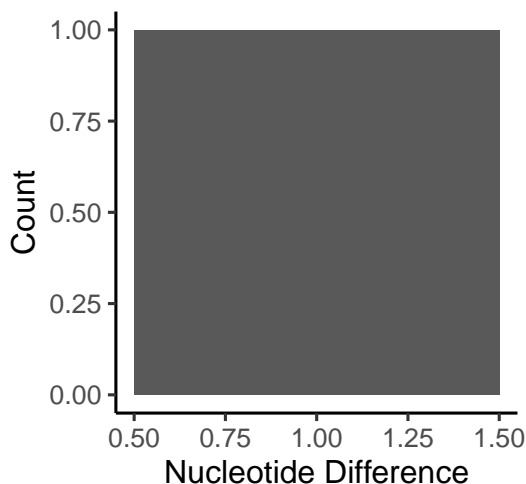
IGHV3-7*01

149 sequences assigned
8 (5.4%) exact matches, in which:
8 unique CDR3
6 unique J



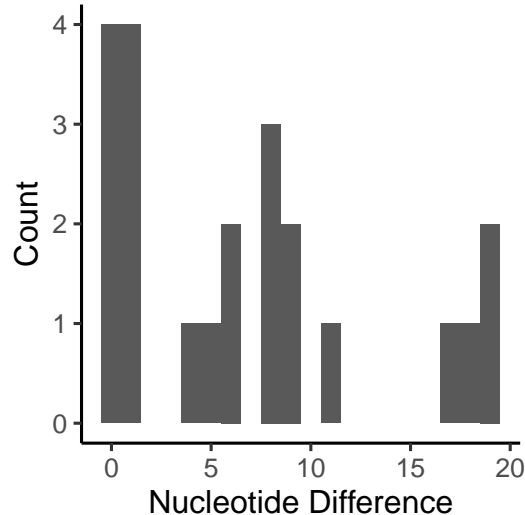
IGHV3-9*01

1 sequences assigned
No exact matches.



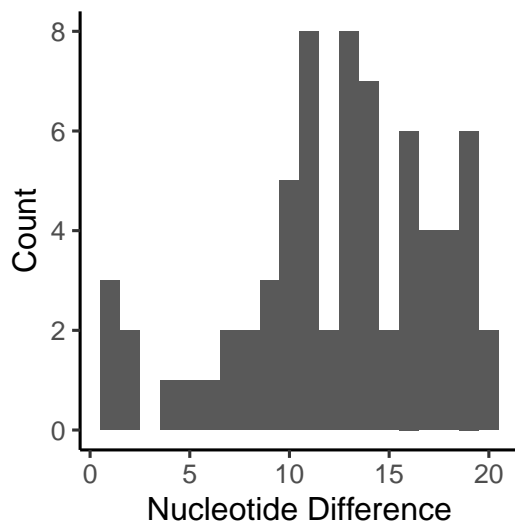
IGHV3-13*04

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



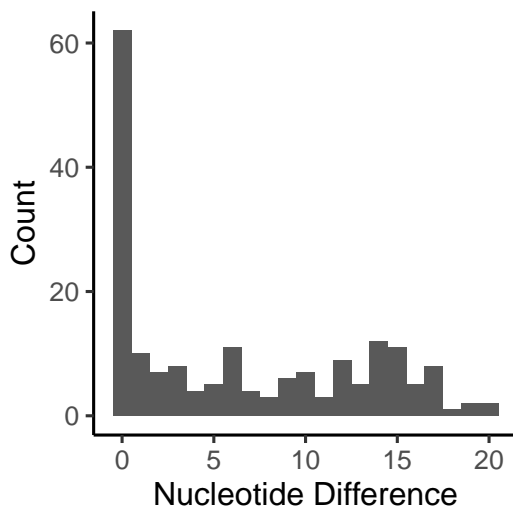
IGHV3-7*04

100 sequences assigned
No exact matches.



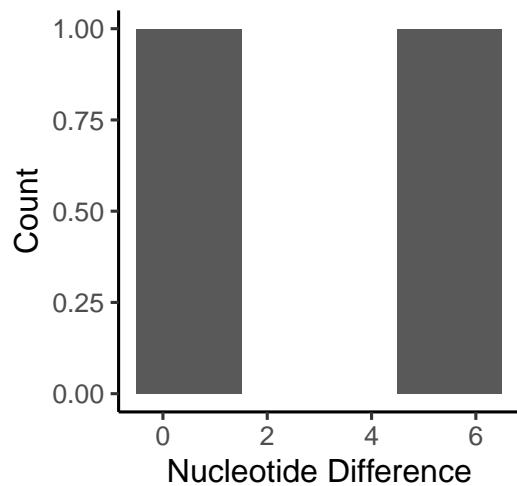
IGHV3-11*05

249 sequences assigned
62 (24.9%) exact matches, in which:
62 unique CDR3
5 unique J



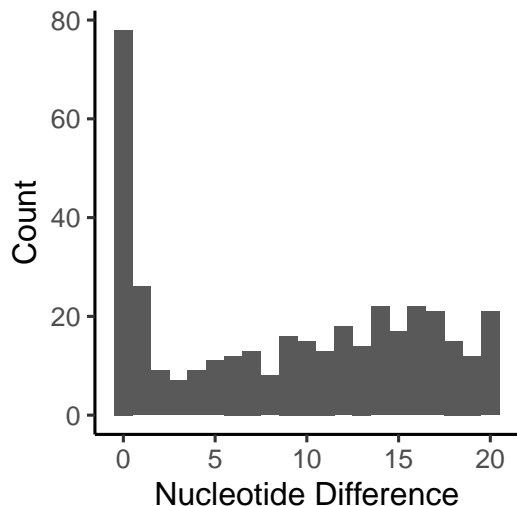
IGHV3-13*05

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



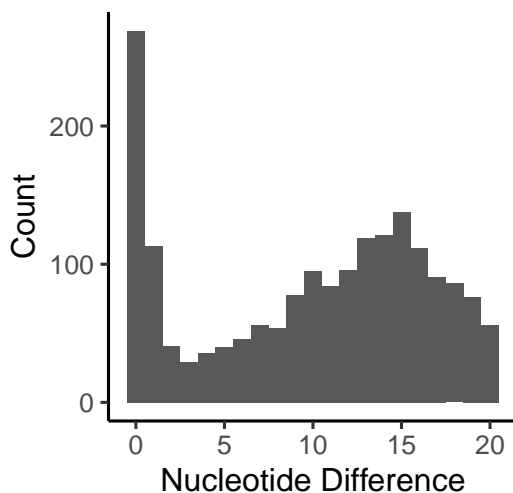
IGHV3-15*01

515 sequences assigned
78 (15.1%) exact matches, in which:
78 unique CDR3
4 unique J



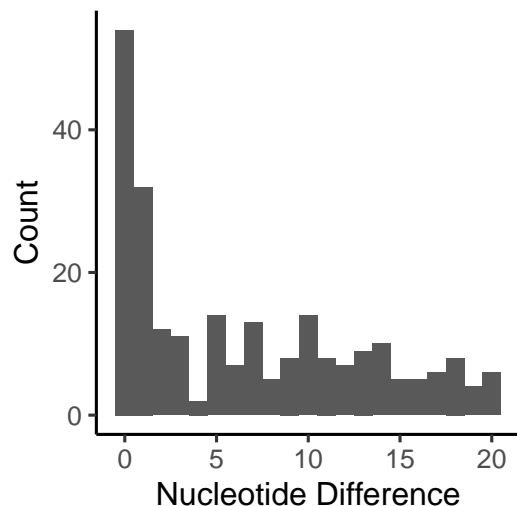
IGHV3-23*01

2503 sequences assigned
269 (10.7%) exact matches, in which:
266 unique CDR3
6 unique J



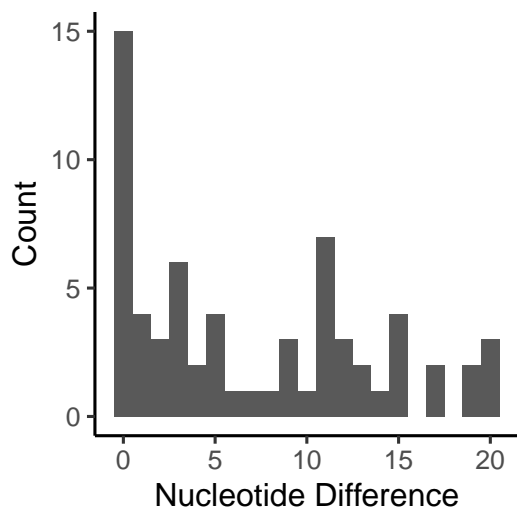
IGHV3-30*18

332 sequences assigned
54 (16.3%) exact matches, in which:
53 unique CDR3
6 unique J



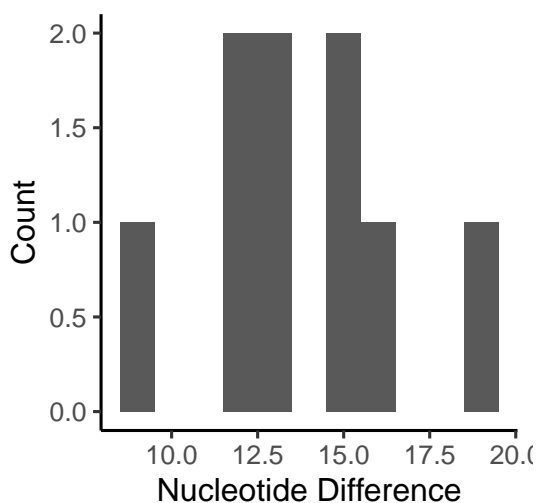
IGHV3-20*04

84 sequences assigned
15 (17.9%) exact matches, in which:
15 unique CDR3
3 unique J



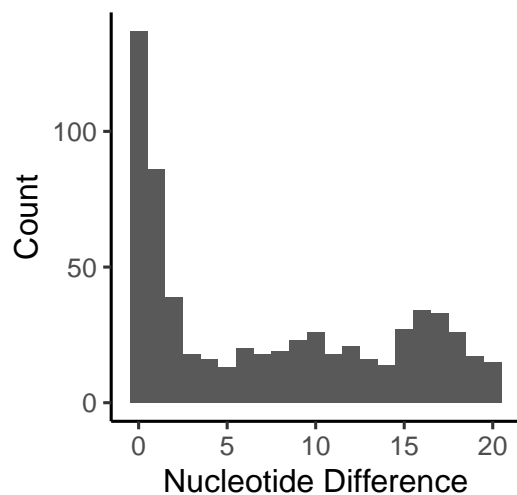
IGHV3-30-3*01

17 sequences assigned
No exact matches.



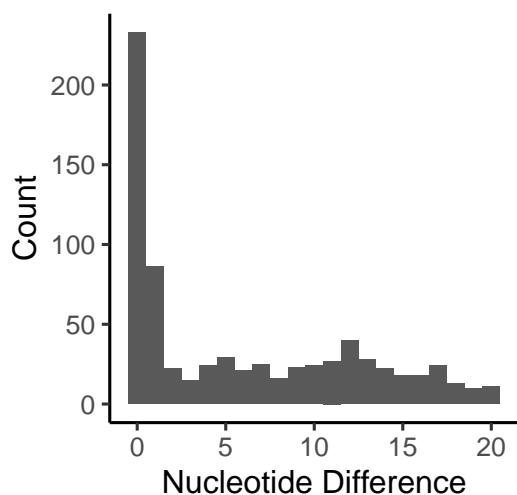
IGHV3-33*01

883 sequences assigned
137 (15.5%) exact matches, in which:
137 unique CDR3
6 unique J



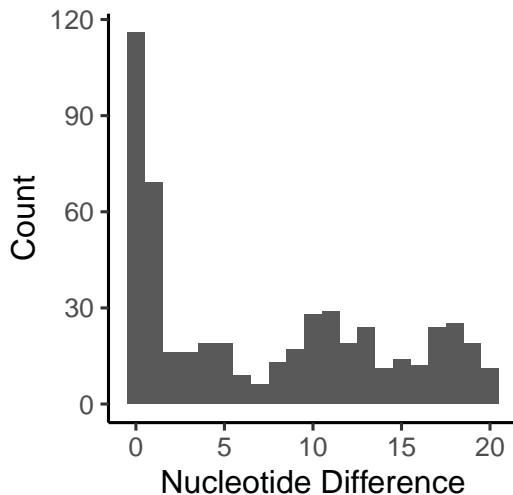
IGHV3-21*01

883 sequences assigned
233 (26.4%) exact matches, in which:
231 unique CDR3
6 unique J



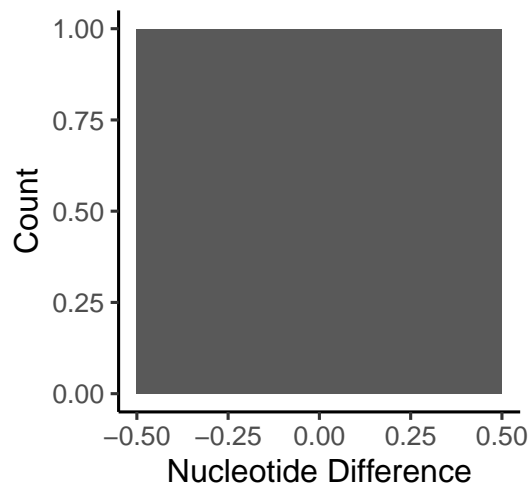
IGHV3-30*04

645 sequences assigned
116 (18%) exact matches, in which:
116 unique CDR3
5 unique J



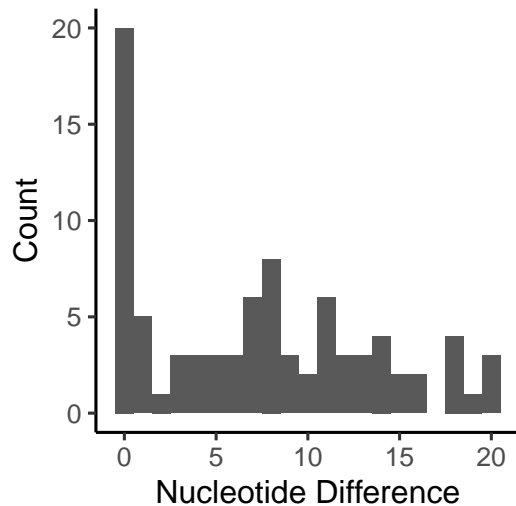
IGHV3-35*01

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



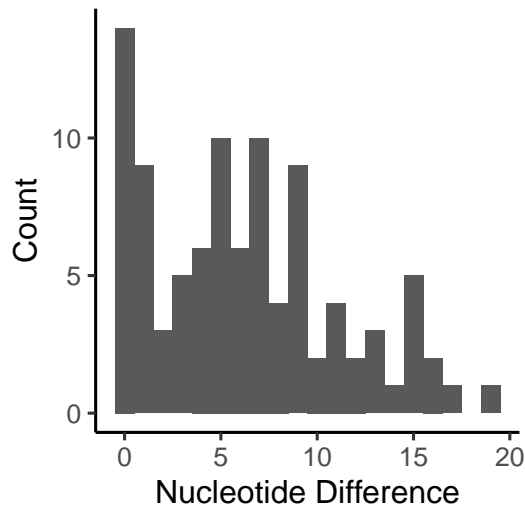
IGHV3-43*02

129 sequences assigned
20 (15.5%) exact matches, in which:
20 unique CDR3
4 unique J



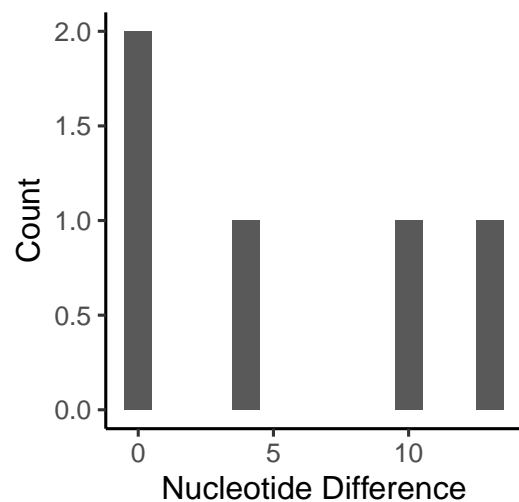
IGHV3-49*03

140 sequences assigned
14 (10%) exact matches, in which:
14 unique CDR3
4 unique J



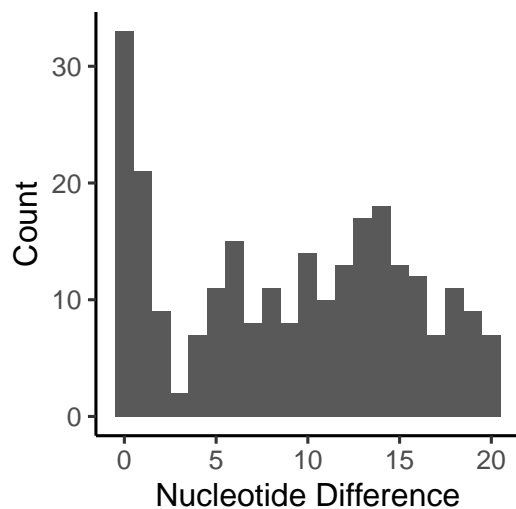
IGHV3-64*02

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



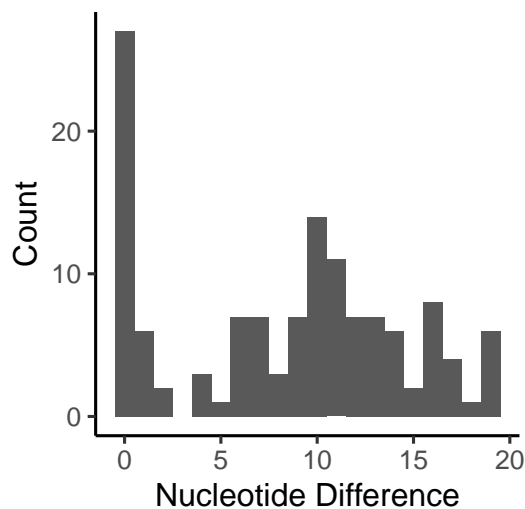
IGHV3-48*01

319 sequences assigned
33 (10.3%) exact matches, in which:
32 unique CDR3
5 unique J



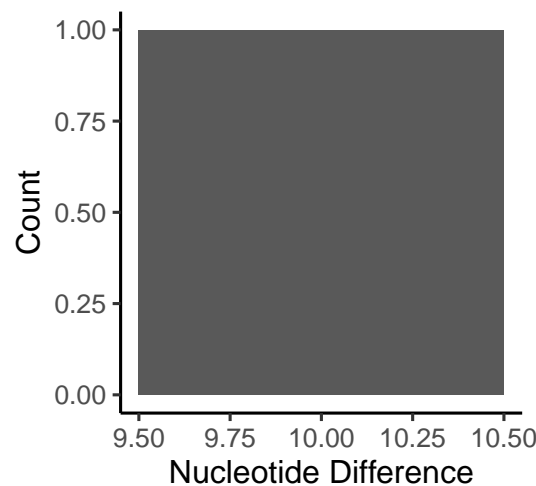
IGHV3-49*04

165 sequences assigned
27 (16.4%) exact matches, in which:
27 unique CDR3
3 unique J



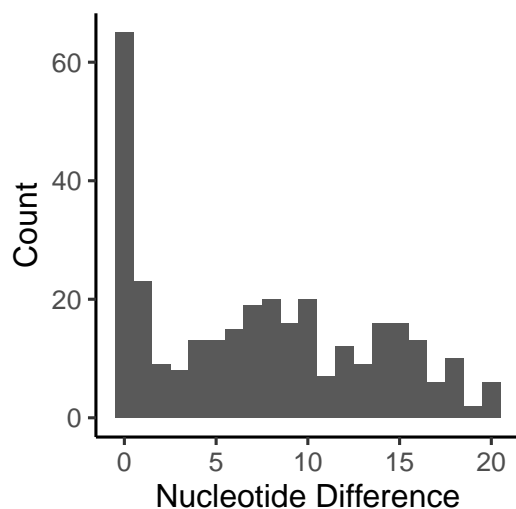
IGHV3-66*03

1 sequences assigned
No exact matches.



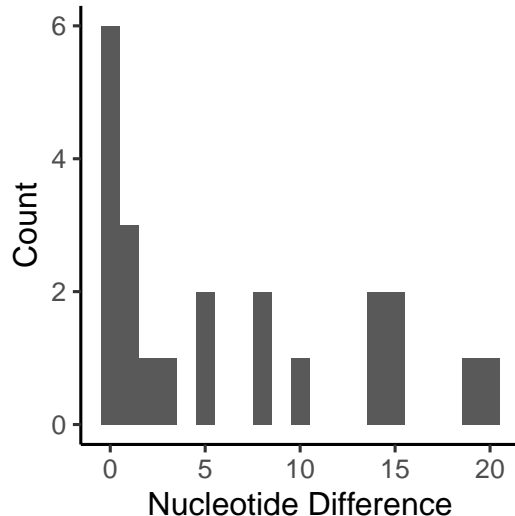
IGHV3-48*03

380 sequences assigned
65 (17.1%) exact matches, in which:
65 unique CDR3
4 unique J



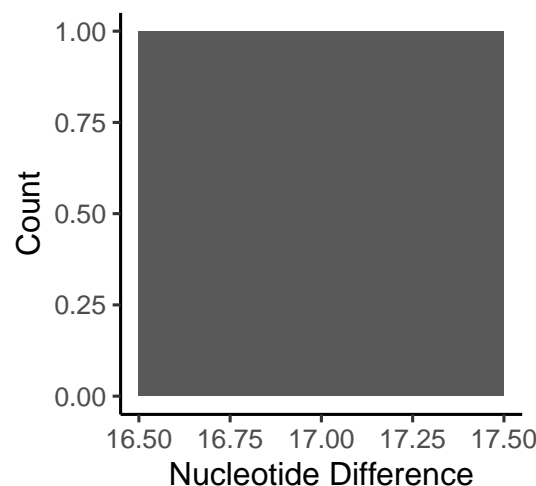
IGHV3-53*04

32 sequences assigned
6 (18.8%) exact matches, in which:
6 unique CDR3
4 unique J



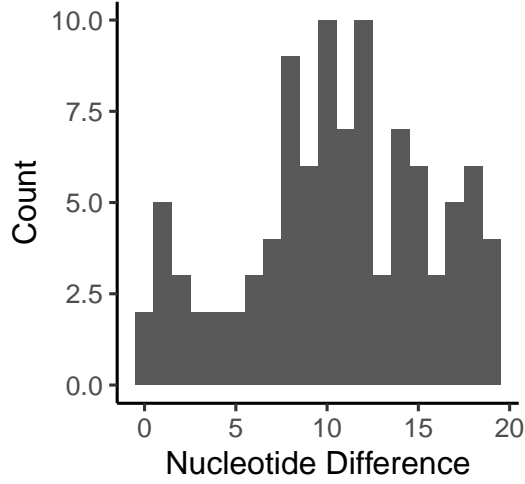
IGHV3-69-1*01

2 sequences assigned
No exact matches.



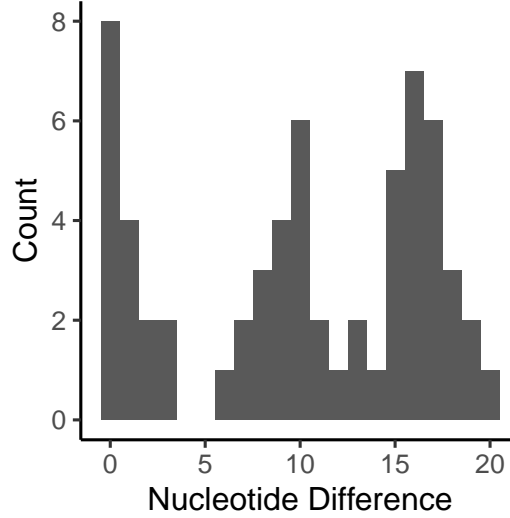
IGHV3-72*01

116 sequences assigned
2 (1.7%) exact matches, in which:
2 unique CDR3
1 unique J



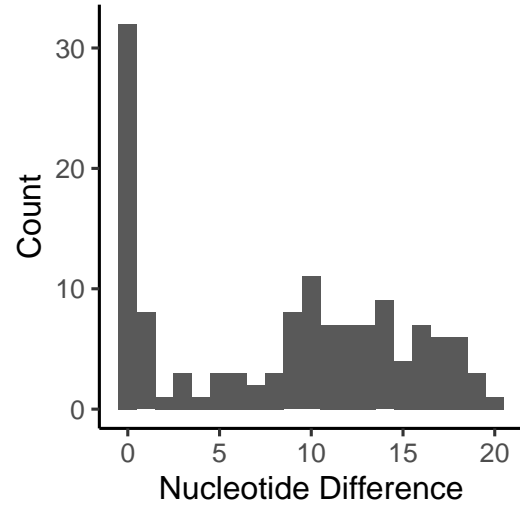
IGHV3-64D*06

75 sequences assigned
8 (10.7%) exact matches, in which:
8 unique CDR3
2 unique J



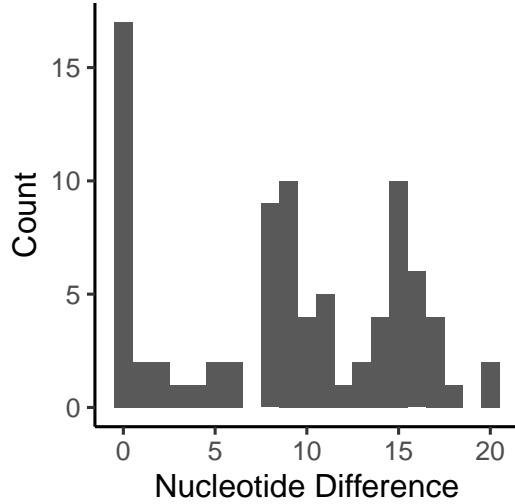
IGHV4-4*07

154 sequences assigned
32 (20.8%) exact matches, in which:
32 unique CDR3
5 unique J



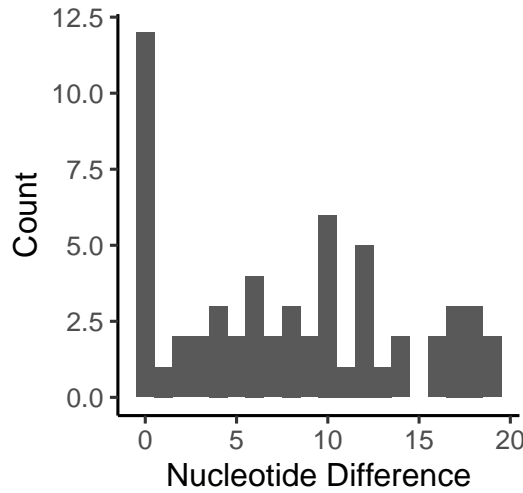
IGHV3-73*02

97 sequences assigned
17 (17.5%) exact matches, in which:
16 unique CDR3
4 unique J



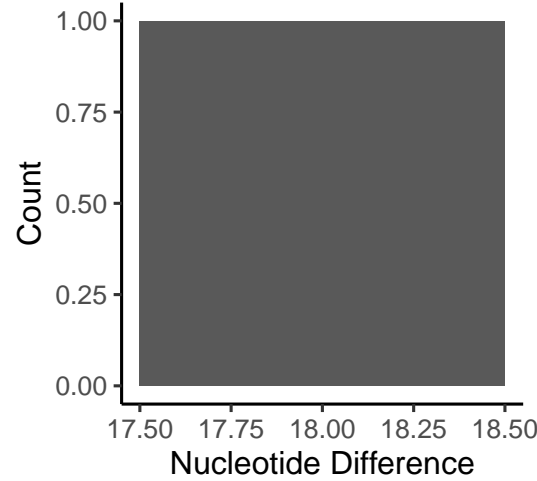
IGHV3-64D*08

76 sequences assigned
12 (15.8%) exact matches, in which:
12 unique CDR3
3 unique J



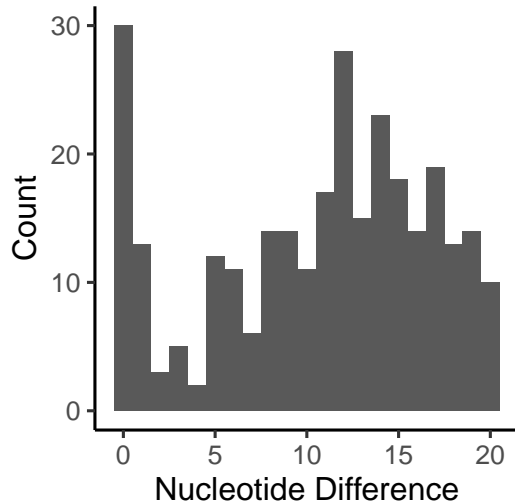
IGHV4-30-4*08

1 sequences assigned
No exact matches.



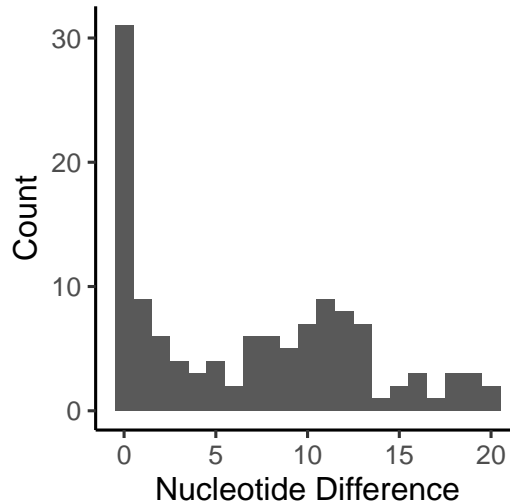
IGHV3-74*01

374 sequences assigned
30 (8%) exact matches, in which:
30 unique CDR3
5 unique J



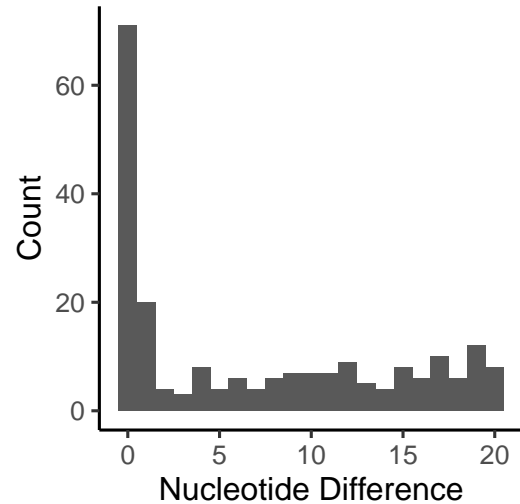
IGHV4-4*02

175 sequences assigned
31 (17.7%) exact matches, in which:
31 unique CDR3
5 unique J



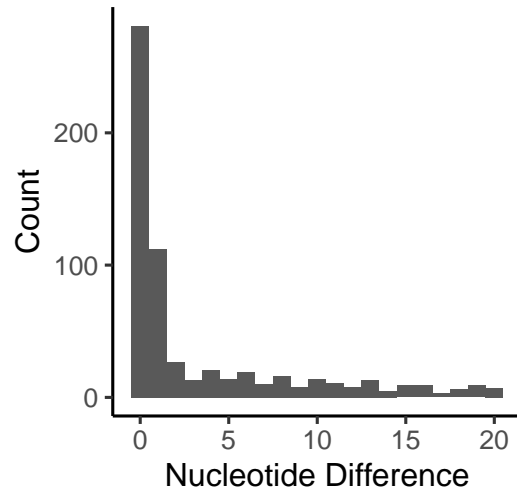
IGHV4-31*03

278 sequences assigned
71 (25.5%) exact matches, in which:
71 unique CDR3
5 unique J



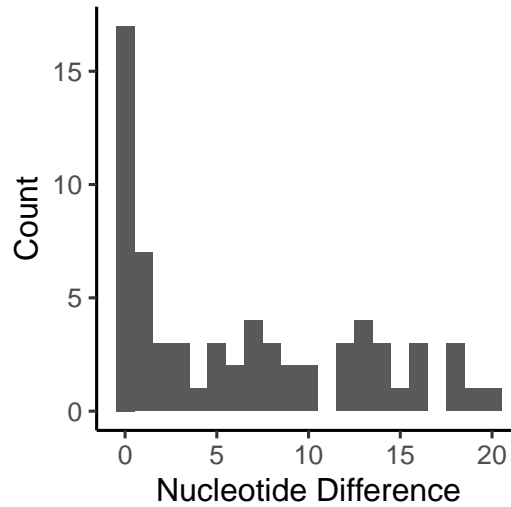
IGHV4-34*01

712 sequences assigned
281 (39.5%) exact matches, in which:
279 unique CDR3
6 unique J



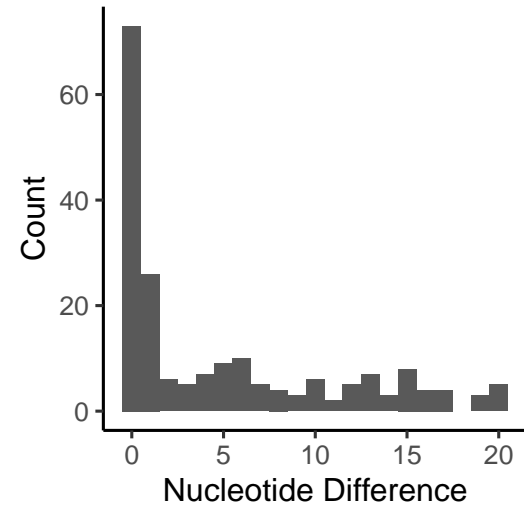
IGHV4-61*01

95 sequences assigned
17 (17.9%) exact matches, in which:
17 unique CDR3
4 unique J



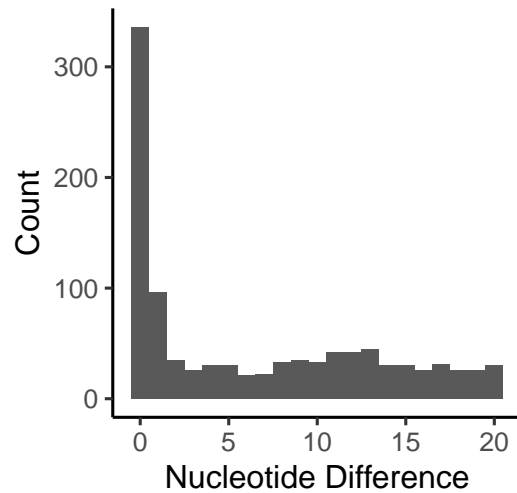
IGHV5-10-1*03

231 sequences assigned
73 (31.6%) exact matches, in which:
73 unique CDR3
4 unique J



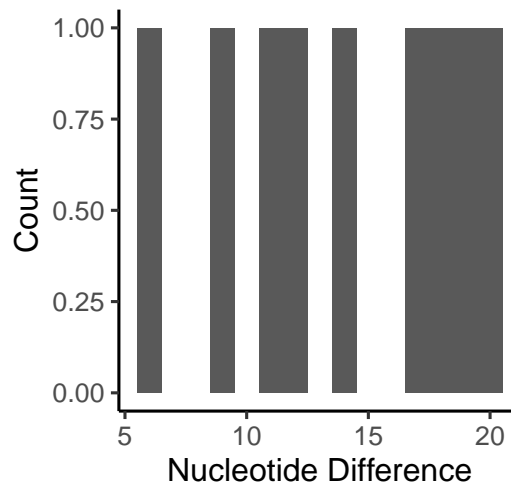
IGHV4-39*01

1321 sequences assigned
336 (25.4%) exact matches, in which:
334 unique CDR3
6 unique J



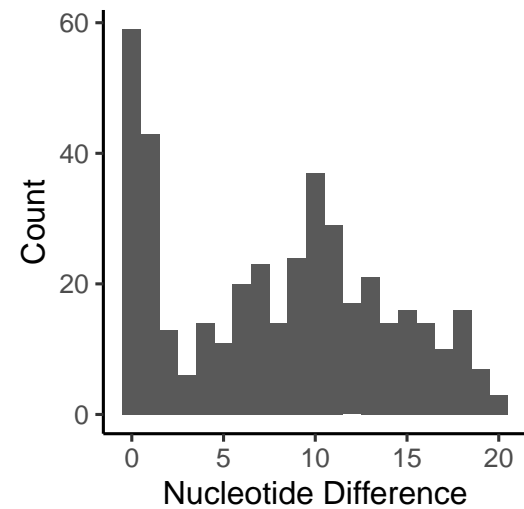
IGHV4-61*08

15 sequences assigned
No exact matches.



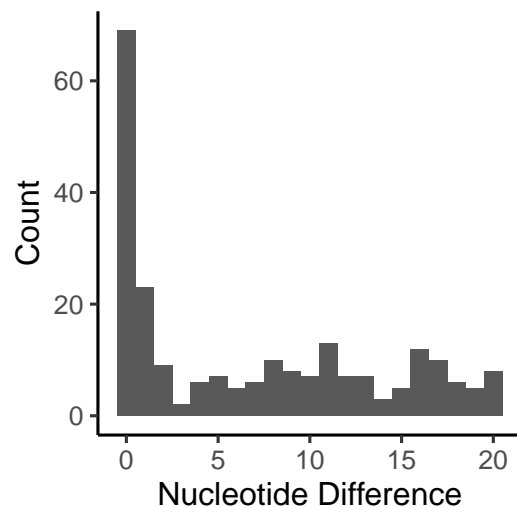
IGHV5-51*01

504 sequences assigned
59 (11.7%) exact matches, in which:
59 unique CDR3
6 unique J



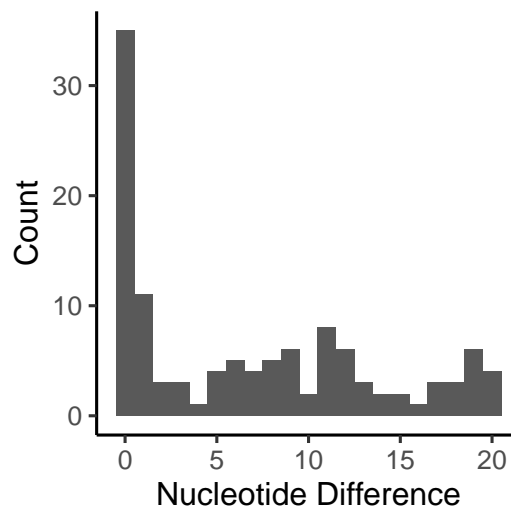
IGHV4-59*01

311 sequences assigned
69 (22.2%) exact matches, in which:
69 unique CDR3
6 unique J



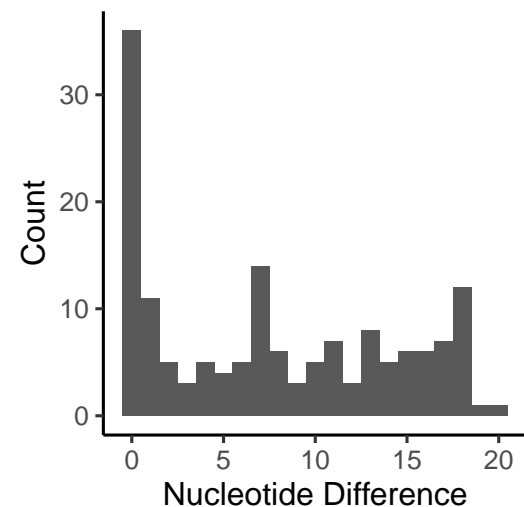
IGHV5-10-1*01

143 sequences assigned
35 (24.5%) exact matches, in which:
35 unique CDR3
5 unique J



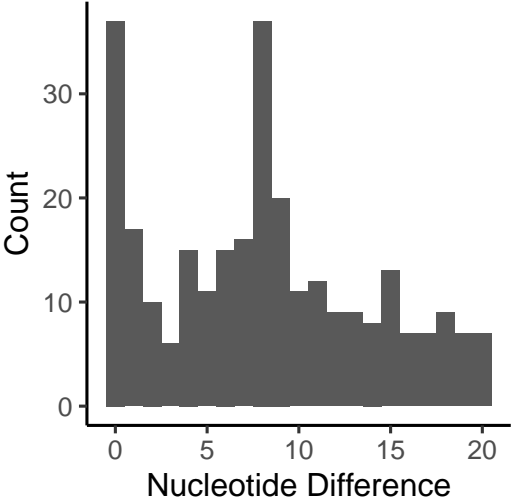
IGHV5-51*03

182 sequences assigned
36 (19.8%) exact matches, in which:
36 unique CDR3
5 unique J



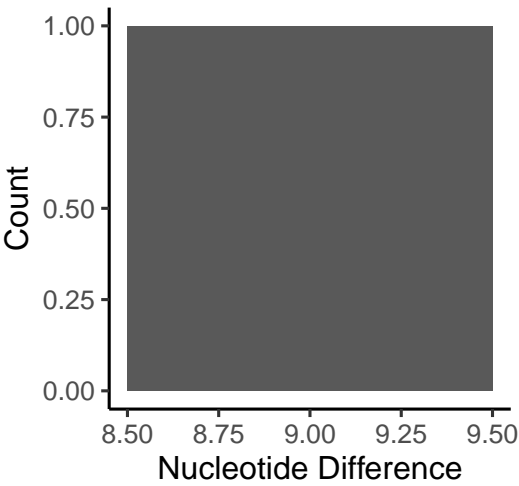
IGHV6-1*01

310 sequences assigned
37 (11.9%) exact matches, in which:
34 unique CDR3
5 unique J



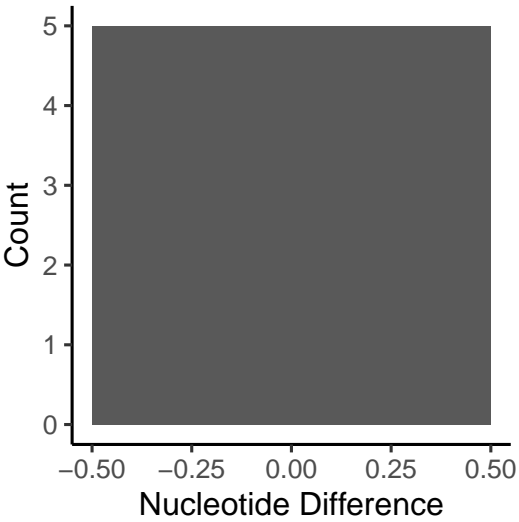
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



IGHV7-4-1*01

5 sequences assigned
5 (100%) exact matches, in which:
5 unique CDR3
3 unique J





Warning – no inferred sequences found.