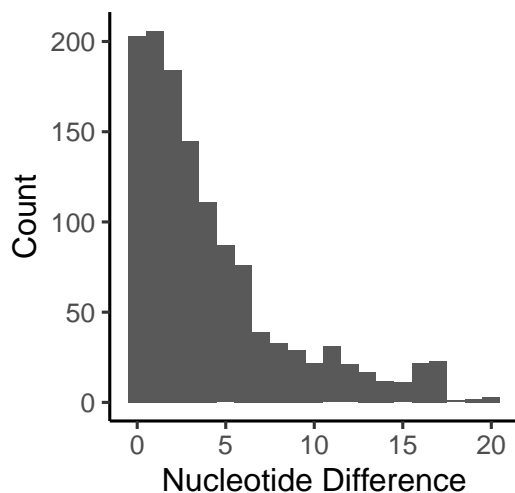


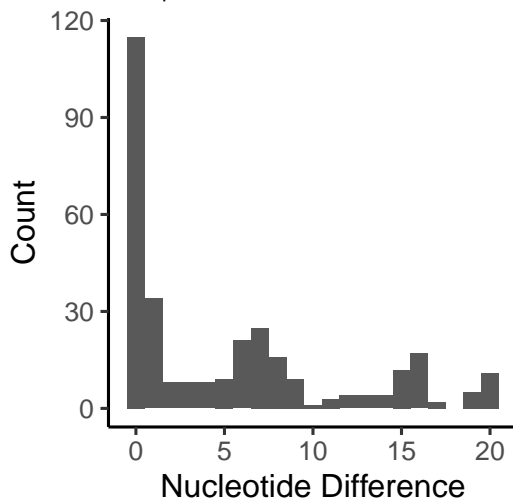
IGHV1-2*04

1292 sequences assigned
203 (15.7%) exact matches, in which:
182 unique CDR3
6 unique J



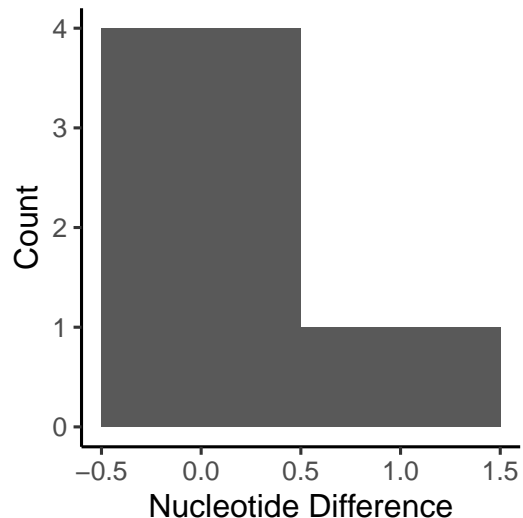
IGHV1-8*01

377 sequences assigned
115 (30.5%) exact matches, in which:
106 unique CDR3
5 unique J



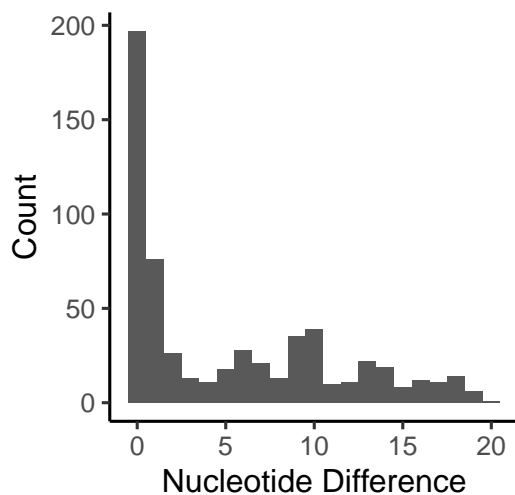
IGHV1-45*02

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



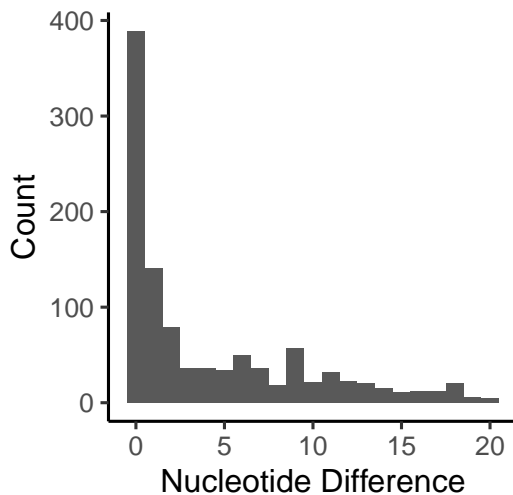
IGHV1-2*06

614 sequences assigned
197 (32.1%) exact matches, in which:
178 unique CDR3
6 unique J



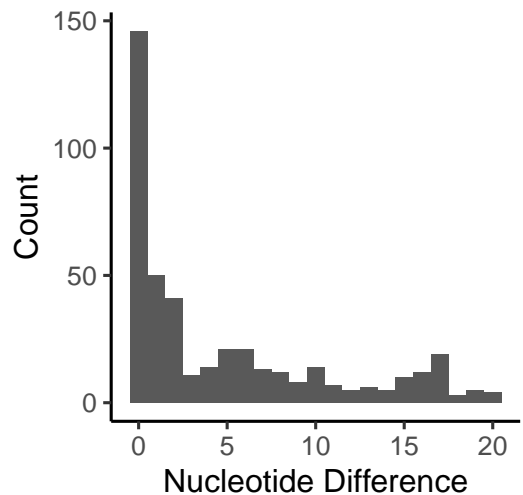
IGHV1-18*01

1632 sequences assigned
389 (23.8%) exact matches, in which:
353 unique CDR3
6 unique J



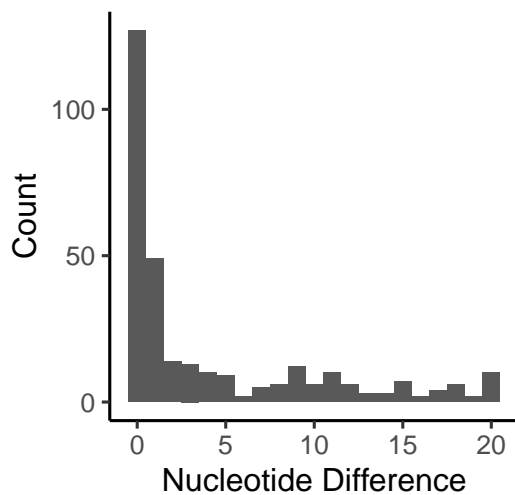
IGHV1-46*01

470 sequences assigned
146 (31.1%) exact matches, in which:
141 unique CDR3
6 unique J



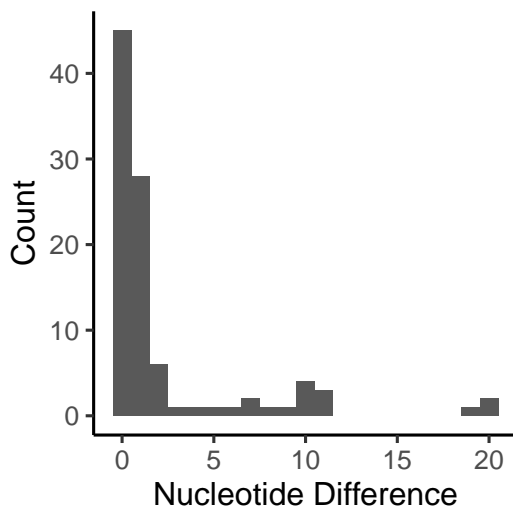
IGHV1-3*01_05

322 sequences assigned
127 (39.4%) exact matches, in which:
116 unique CDR3
5 unique J



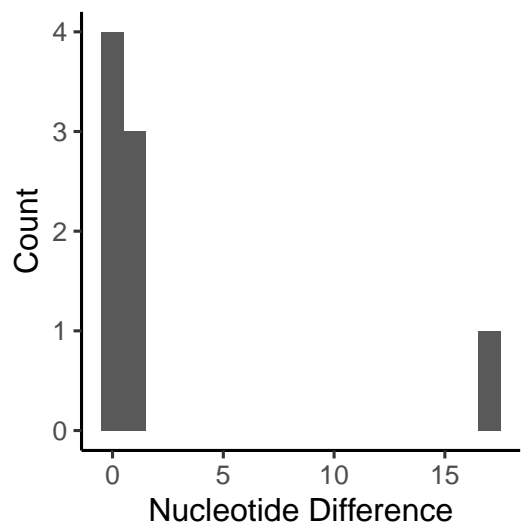
IGHV1-24*01

101 sequences assigned
45 (44.6%) exact matches, in which:
43 unique CDR3
5 unique J



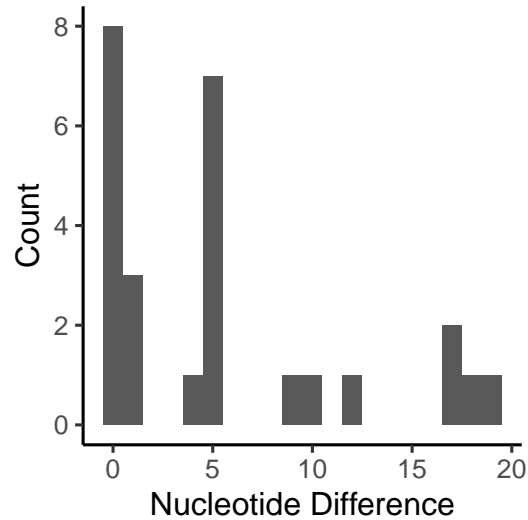
IGHV1-58*02

8 sequences assigned
4 (50%) exact matches, in which:
4 unique CDR3
2 unique J



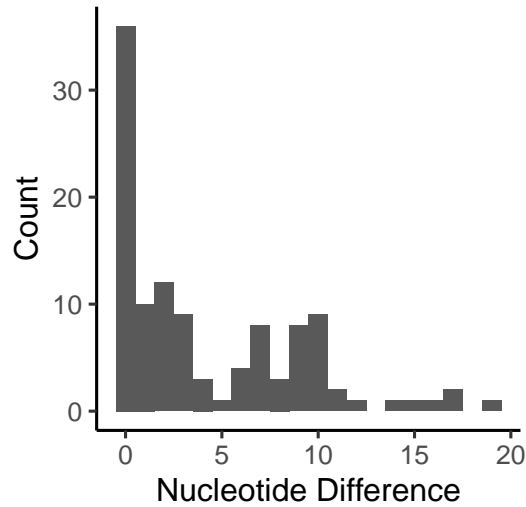
IGHV1-58*01_03

26 sequences assigned
8 (30.8%) exact matches, in which:
8 unique CDR3
4 unique J



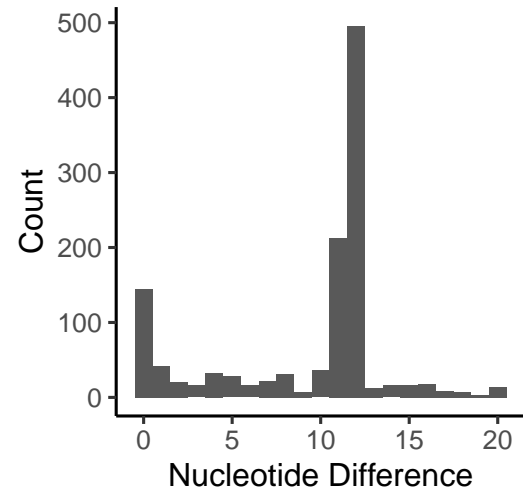
IGHV2-5*02

112 sequences assigned
36 (32.1%) exact matches, in which:
35 unique CDR3
5 unique J



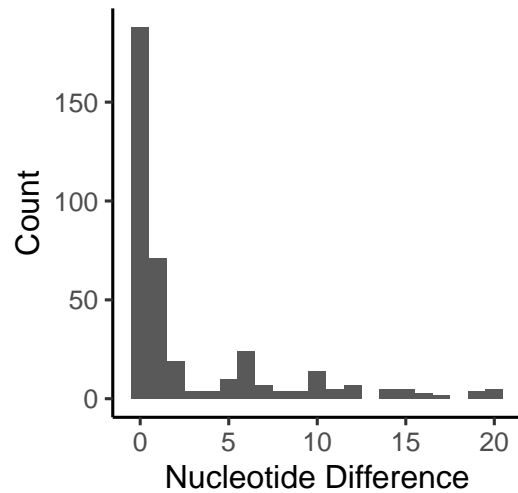
IGHV3-7*01

1667 sequences assigned
145 (8.7%) exact matches, in which:
84 unique CDR3
5 unique J



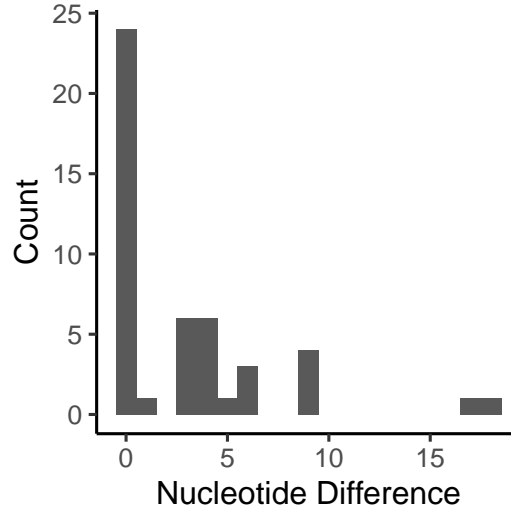
IGHV1-69*01_12_13

397 sequences assigned
188 (47.4%) exact matches, in which:
180 unique CDR3
6 unique J



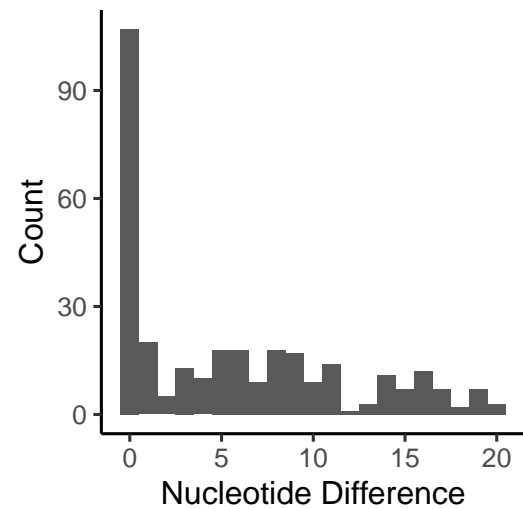
IGHV2-26*01

47 sequences assigned
24 (51.1%) exact matches, in which:
21 unique CDR3
4 unique J



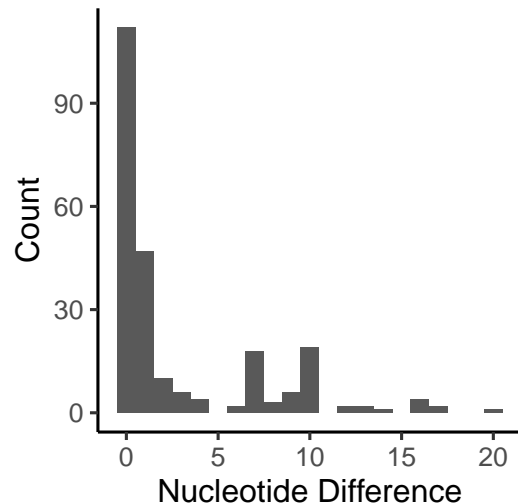
IGHV3-7*03

348 sequences assigned
107 (30.7%) exact matches, in which:
59 unique CDR3
6 unique J



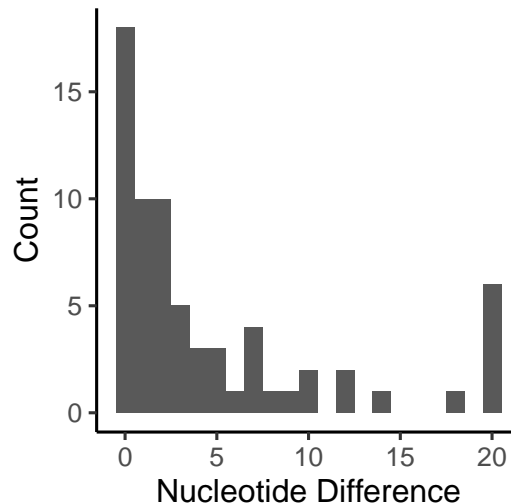
IGHV1-69*04_09_G112A

263 sequences assigned
112 (42.6%) exact matches, in which:
106 unique CDR3
5 unique J



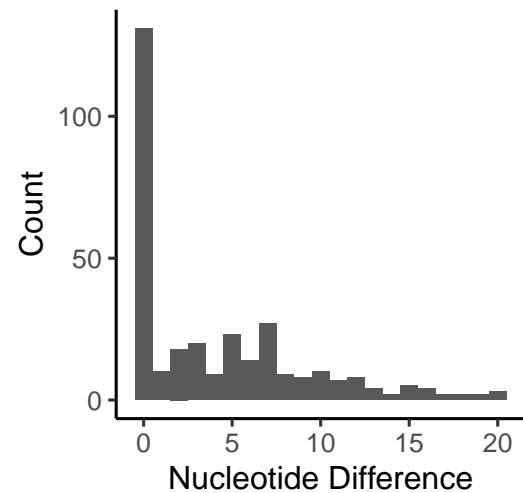
IGHV2-70*11_15

72 sequences assigned
18 (25%) exact matches, in which:
17 unique CDR3
3 unique J



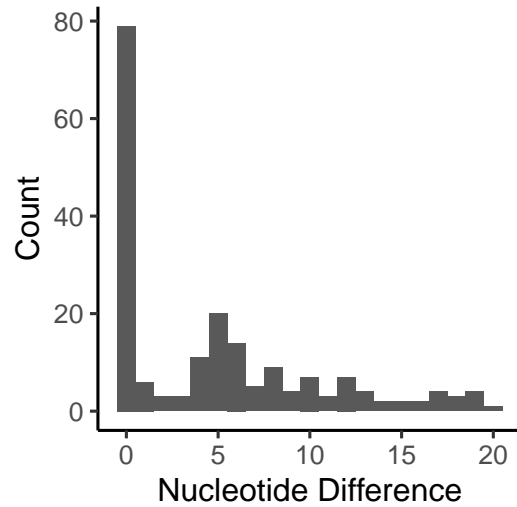
IGHV3-9*01

388 sequences assigned
131 (33.8%) exact matches, in which:
74 unique CDR3
5 unique J



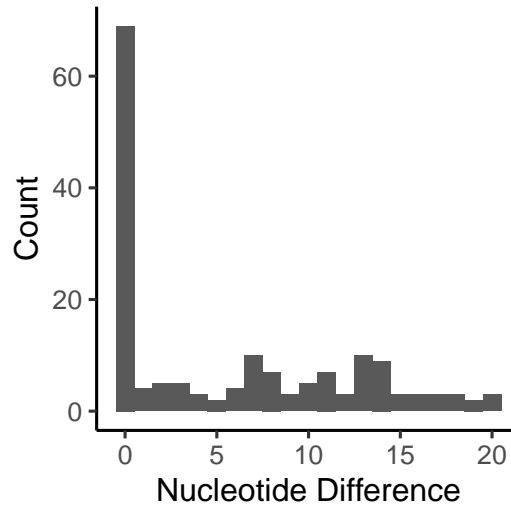
IGHV3-11*01

210 sequences assigned
79 (37.6%) exact matches, in which:
47 unique CDR3
4 unique J



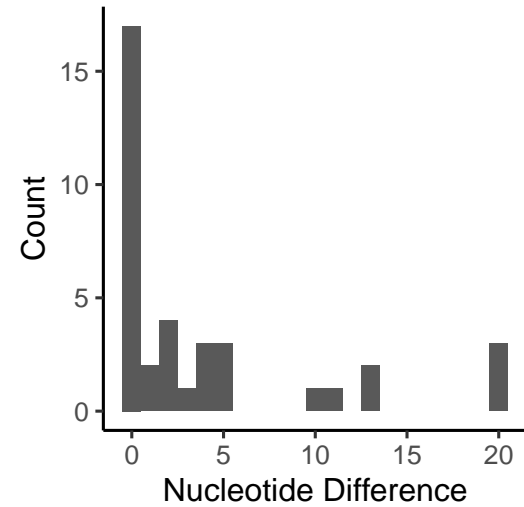
IGHV3-15*07

176 sequences assigned
69 (39.2%) exact matches, in which:
40 unique CDR3
6 unique J



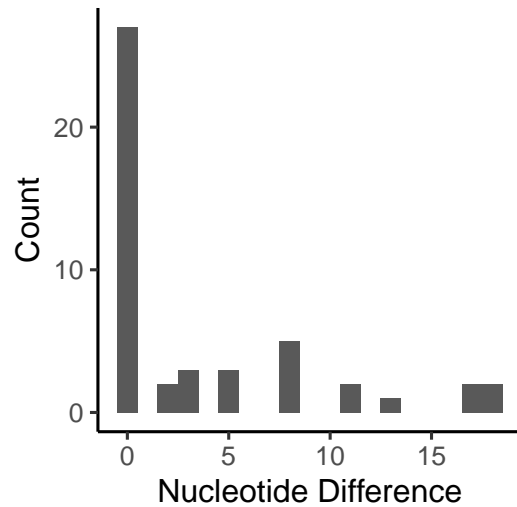
IGHV3-20*03_04

37 sequences assigned
17 (45.9%) exact matches, in which:
8 unique CDR3
3 unique J



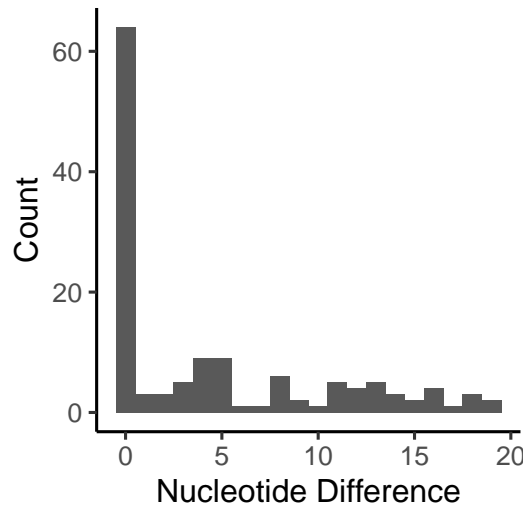
IGHV3-11*06

50 sequences assigned
27 (54%) exact matches, in which:
15 unique CDR3
3 unique J



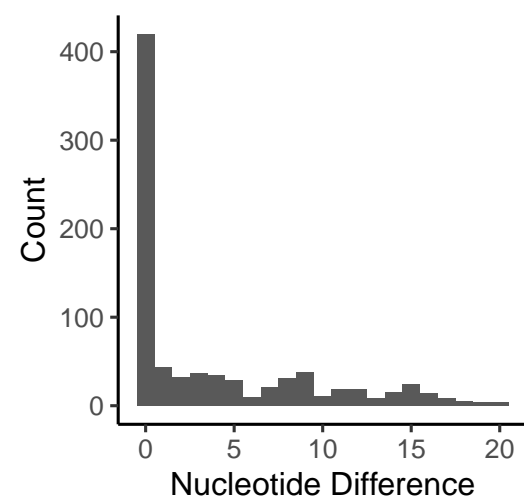
IGHV3-15*01_02

149 sequences assigned
64 (43%) exact matches, in which:
38 unique CDR3
5 unique J



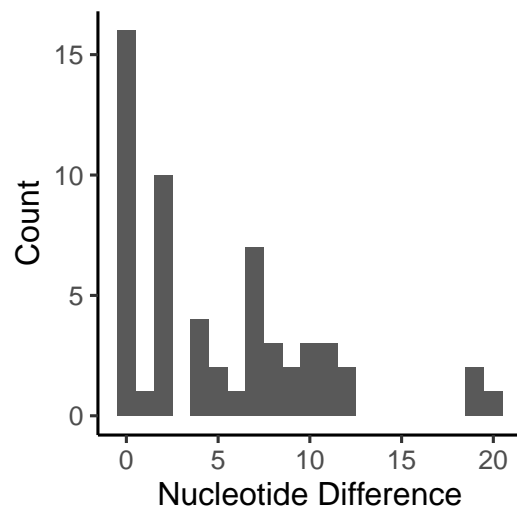
IGHV3-21*01_02

870 sequences assigned
420 (48.3%) exact matches, in which:
233 unique CDR3
6 unique J



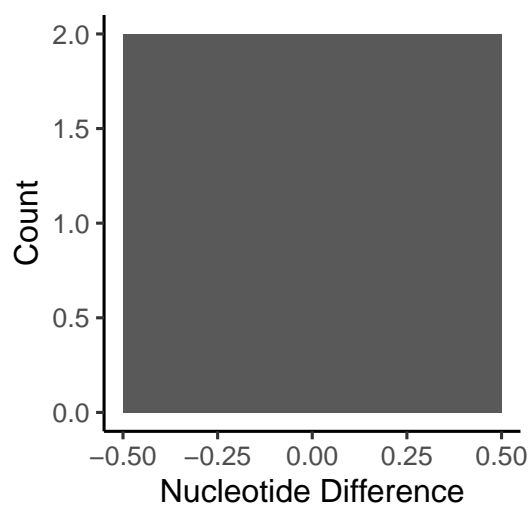
IGHV3-13*01

66 sequences assigned
16 (24.2%) exact matches, in which:
9 unique CDR3
4 unique J



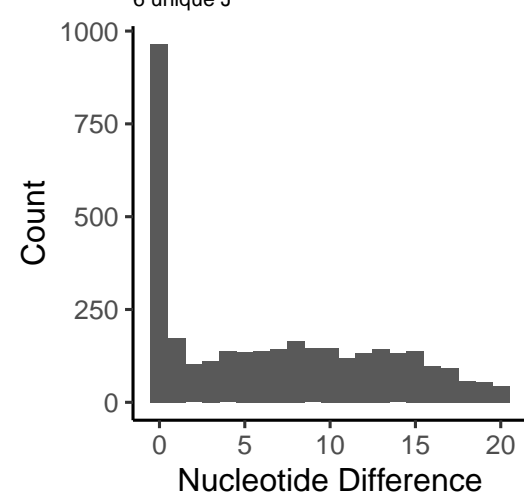
IGHV3-19*01

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



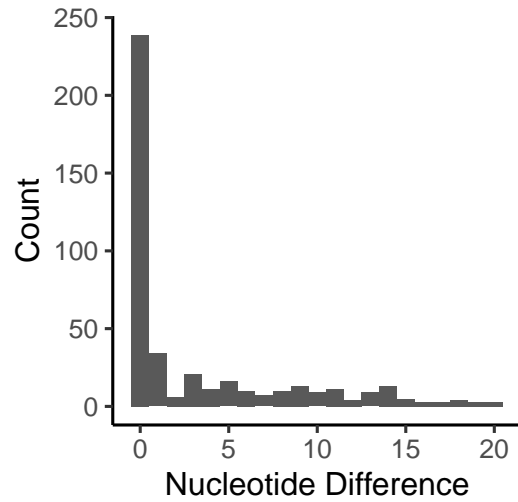
IGHV3-23*01_04

3804 sequences assigned
965 (25.4%) exact matches, in which:
555 unique CDR3
6 unique J



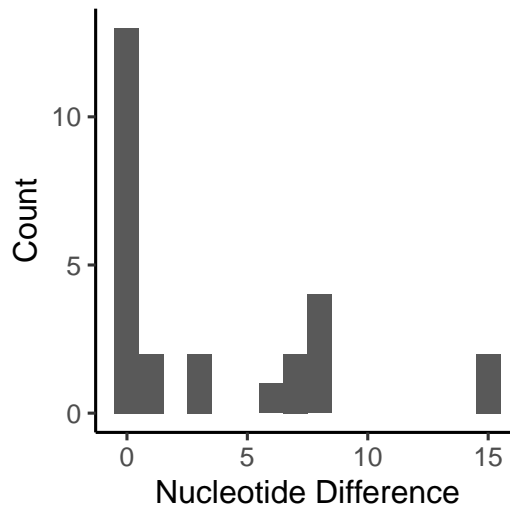
IGHV3-30*01

447 sequences assigned
239 (53.5%) exact matches, in which:
141 unique CDR3
5 unique J



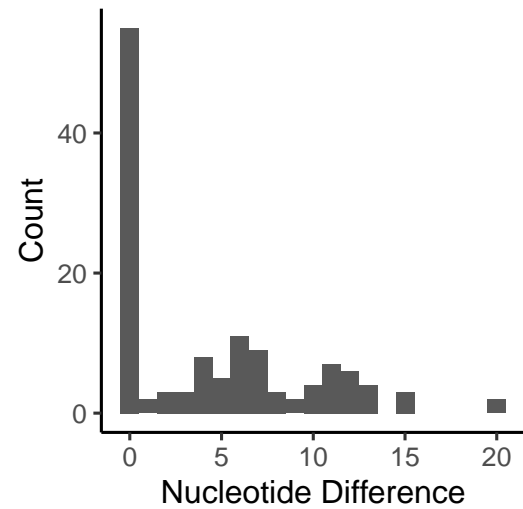
IGHV3-43*01

28 sequences assigned
13 (46.4%) exact matches, in which:
8 unique CDR3
3 unique J



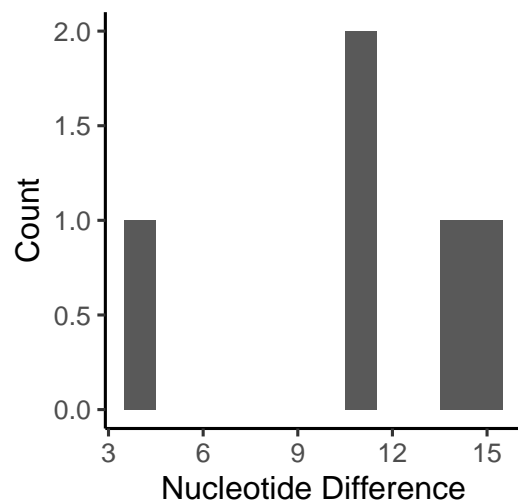
IGHV3-49*03_05

130 sequences assigned
55 (42.3%) exact matches, in which:
32 unique CDR3
4 unique J



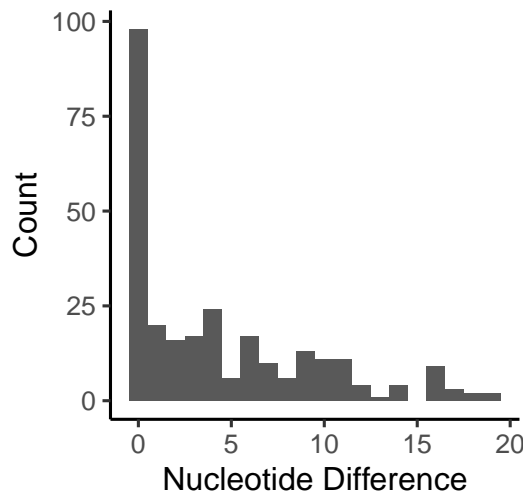
IGHV3-30-5*01

9 sequences assigned
No exact matches.



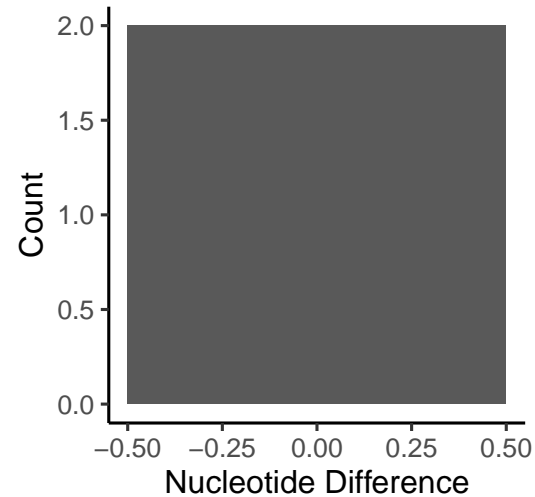
IGHV3-48*02

288 sequences assigned
98 (34%) exact matches, in which:
58 unique CDR3
5 unique J



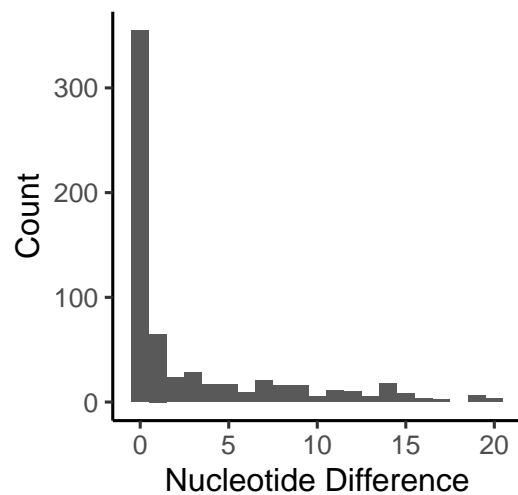
IGHV3-52*01_03

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



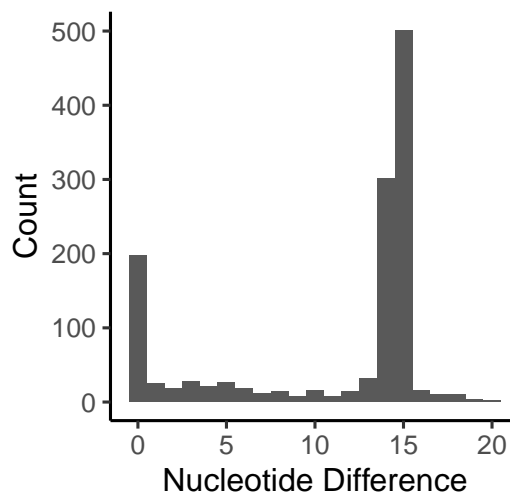
IGHV3-33*01

676 sequences assigned
355 (52.5%) exact matches, in which:
196 unique CDR3
5 unique J



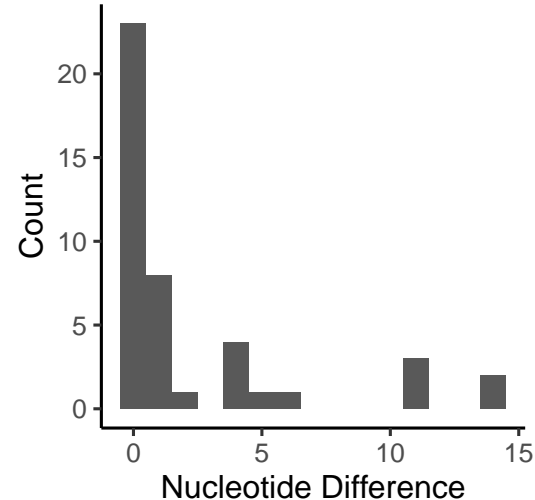
IGHV3-48*04

1308 sequences assigned
197 (15.1%) exact matches, in which:
105 unique CDR3
5 unique J



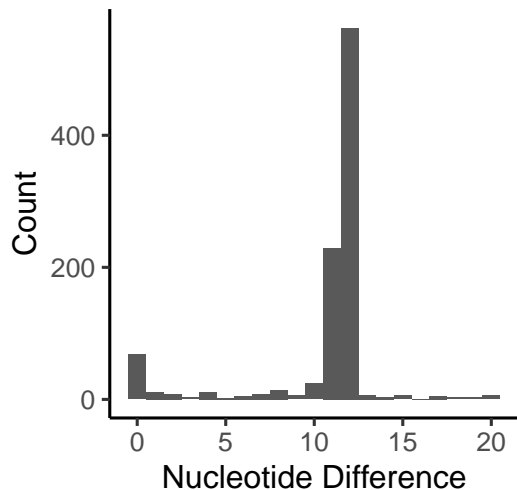
IGHV3-53*04

46 sequences assigned
23 (50%) exact matches, in which:
12 unique CDR3
3 unique J



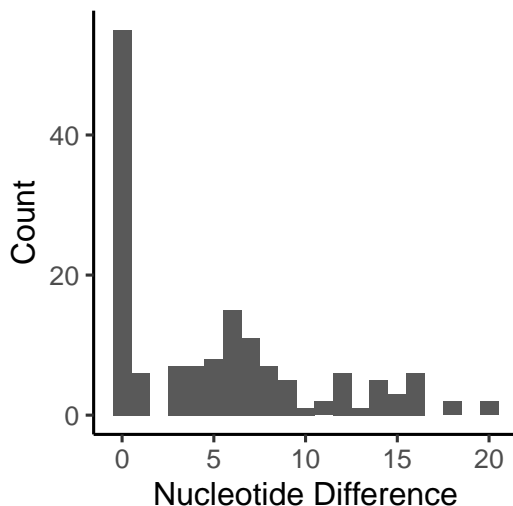
IGHV3-53*01_02

1002 sequences assigned
68 (6.8%) exact matches, in which:
40 unique CDR3
3 unique J



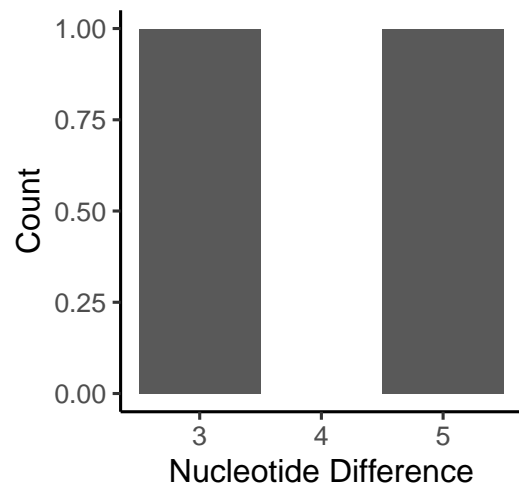
IGHV3-66*01

159 sequences assigned
55 (34.6%) exact matches, in which:
27 unique CDR3
4 unique J



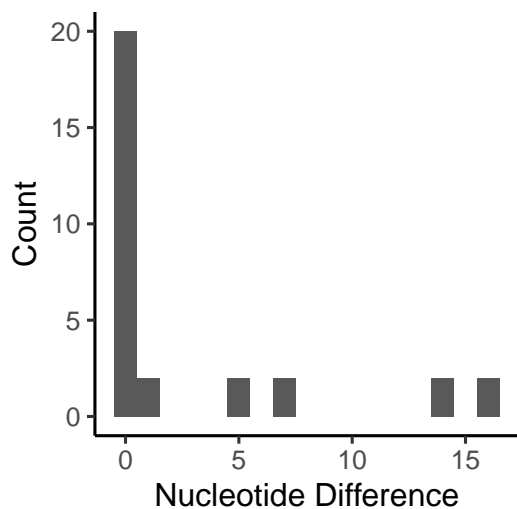
IGHV3-69-1*01

2 sequences assigned
No exact matches.



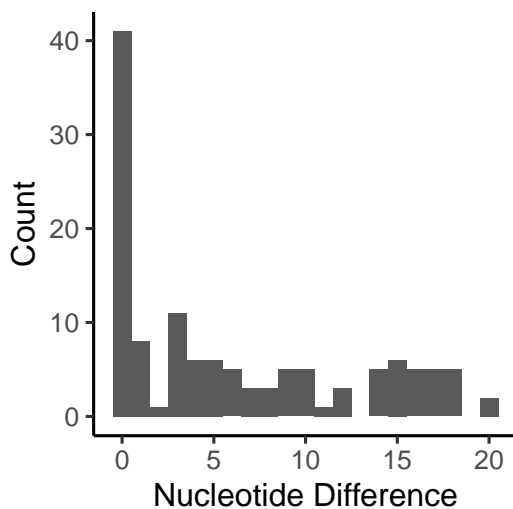
IGHV3-64*01

30 sequences assigned
20 (66.7%) exact matches, in which:
10 unique CDR3
4 unique J



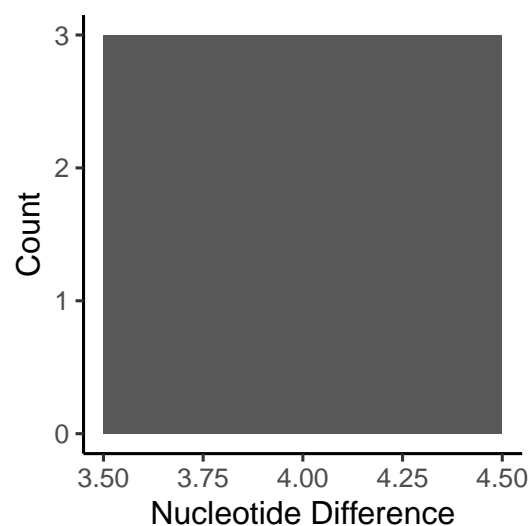
IGHV3-66*02

141 sequences assigned
41 (29.1%) exact matches, in which:
22 unique CDR3
5 unique J



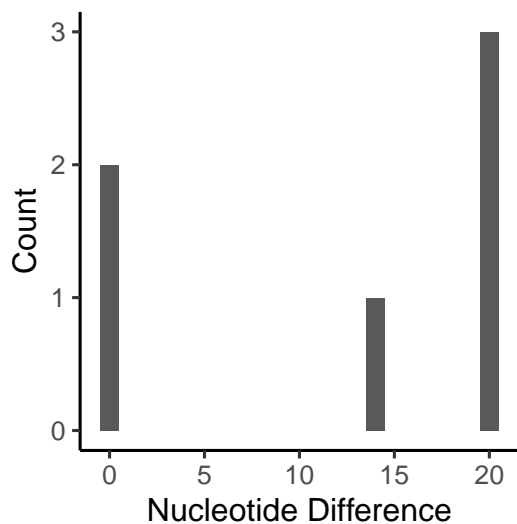
IGHV3-69-1*02

3 sequences assigned
No exact matches.



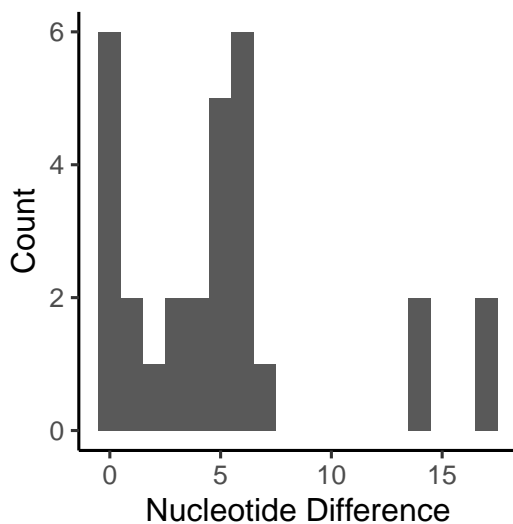
IGHV3-64*02_07

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



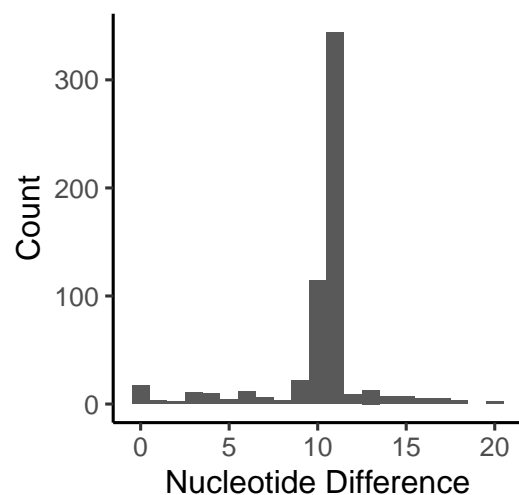
IGHV3-66*04

29 sequences assigned
6 (20.7%) exact matches, in which:
3 unique CDR3
2 unique J



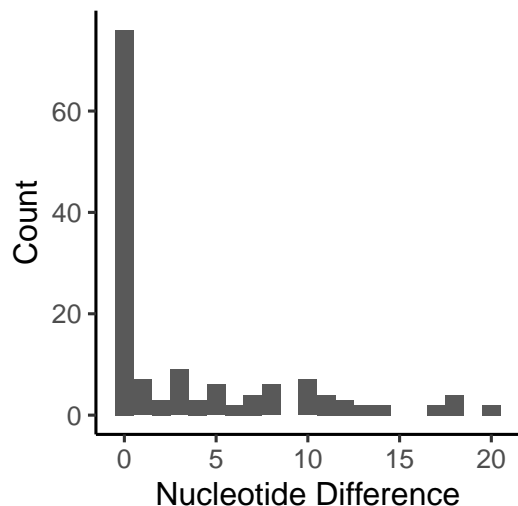
IGHV3-72*01

607 sequences assigned
17 (2.8%) exact matches, in which:
8 unique CDR3
4 unique J



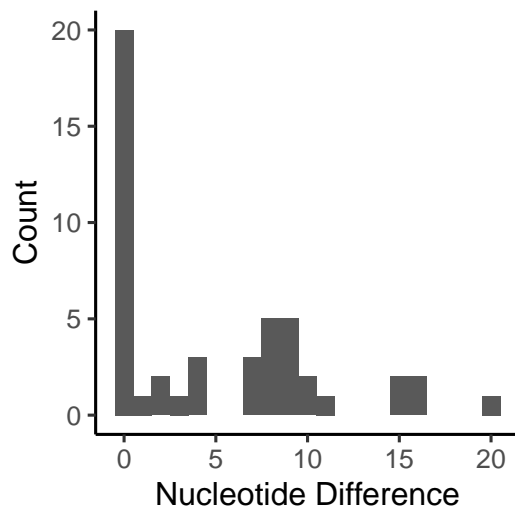
IGHV3-73*01_02

151 sequences assigned
76 (50.3%) exact matches, in which:
42 unique CDR3
6 unique J



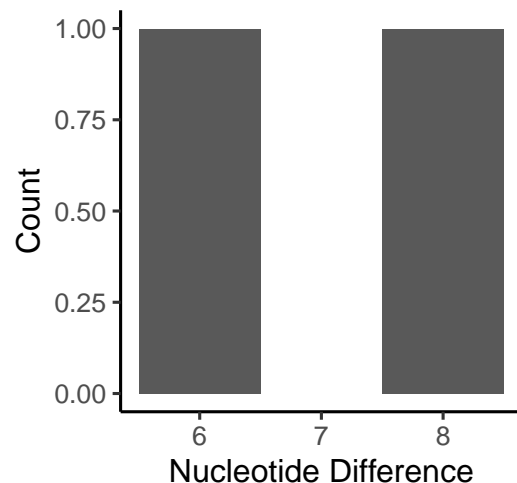
IGHV3-64D*06

55 sequences assigned
20 (36.4%) exact matches, in which:
9 unique CDR3
3 unique J



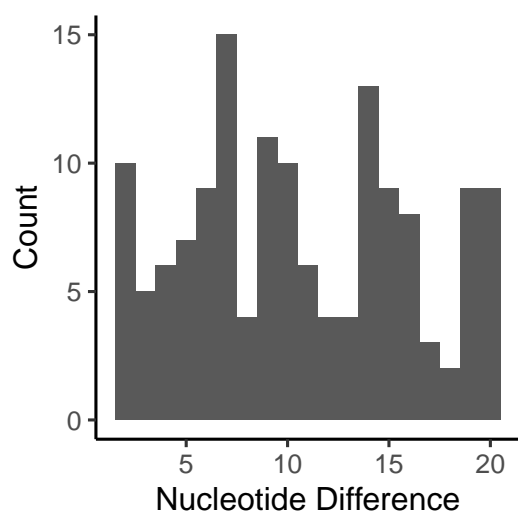
IGHV4-30-4*08

6 sequences assigned
No exact matches.



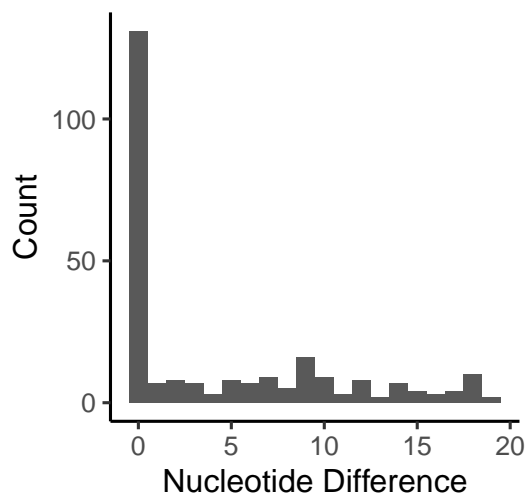
IGHV3-74*03

169 sequences assigned
No exact matches.



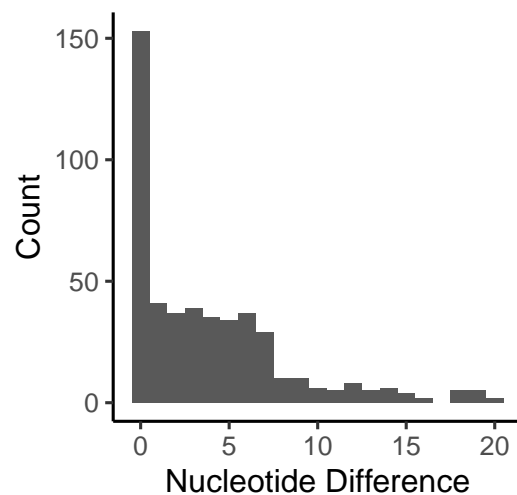
IGHV4-4*02_03

268 sequences assigned
131 (48.9%) exact matches, in which:
116 unique CDR3
4 unique J



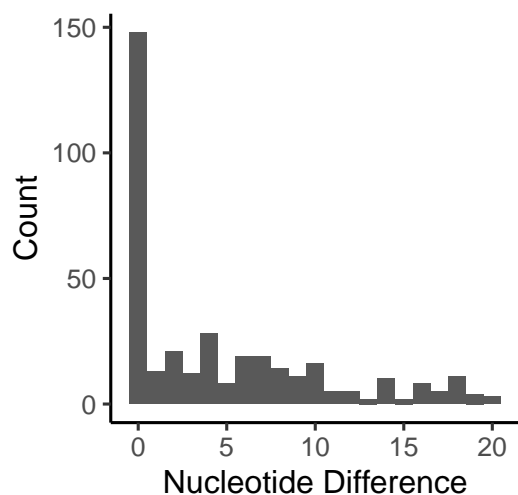
IGHV4-31*02

530 sequences assigned
153 (28.9%) exact matches, in which:
148 unique CDR3
5 unique J



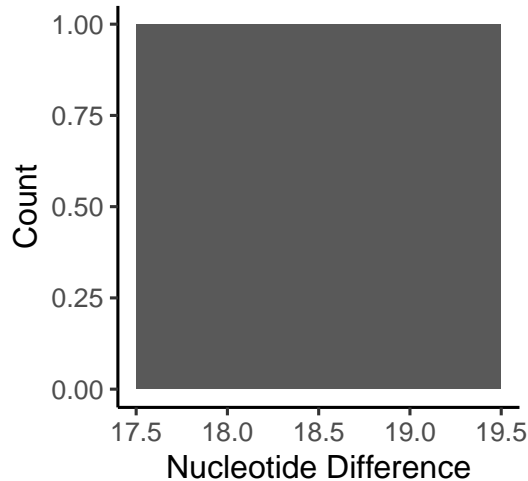
IGHV3-74*01_02

417 sequences assigned
148 (35.5%) exact matches, in which:
83 unique CDR3
5 unique J



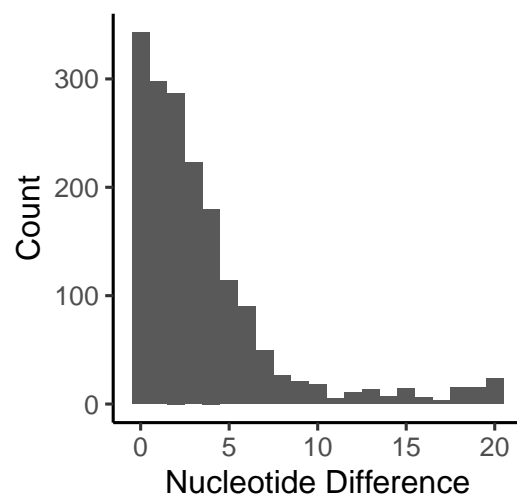
IGHV4-28*02_05

2 sequences assigned
No exact matches.



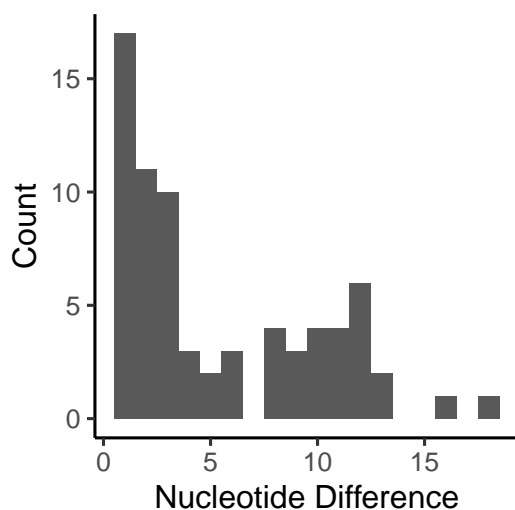
IGHV4-34*01_02

1829 sequences assigned
343 (18.8%) exact matches, in which:
278 unique CDR3
6 unique J



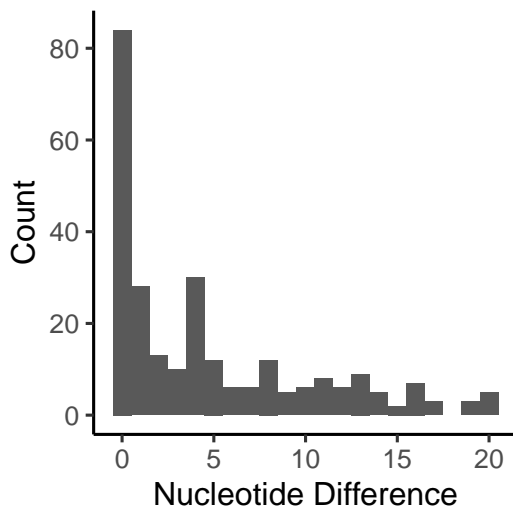
IGHV4-39*07

73 sequences assigned
No exact matches.



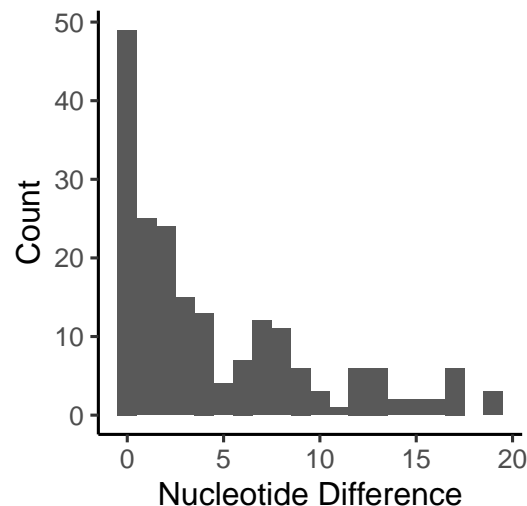
IGHV4-59*08

275 sequences assigned
84 (30.5%) exact matches, in which:
78 unique CDR3
5 unique J



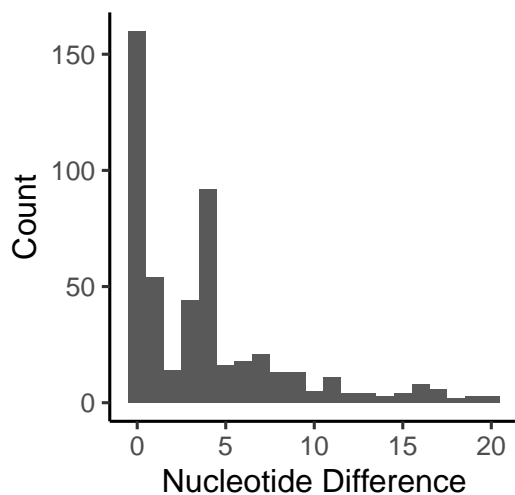
IGHV4-61*01

206 sequences assigned
49 (23.8%) exact matches, in which:
42 unique CDR3
4 unique J



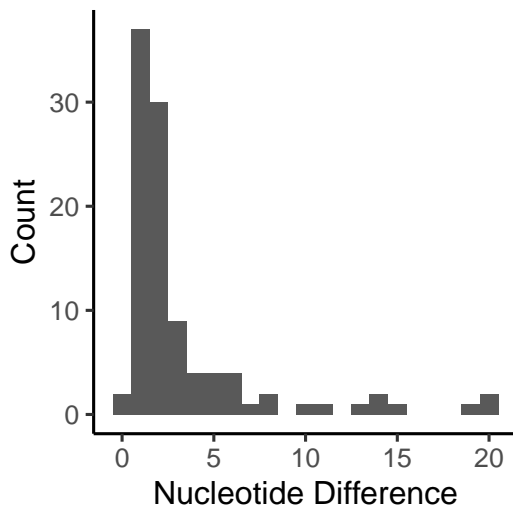
IGHV4-39*02_C258G

519 sequences assigned
160 (30.8%) exact matches, in which:
148 unique CDR3
5 unique J



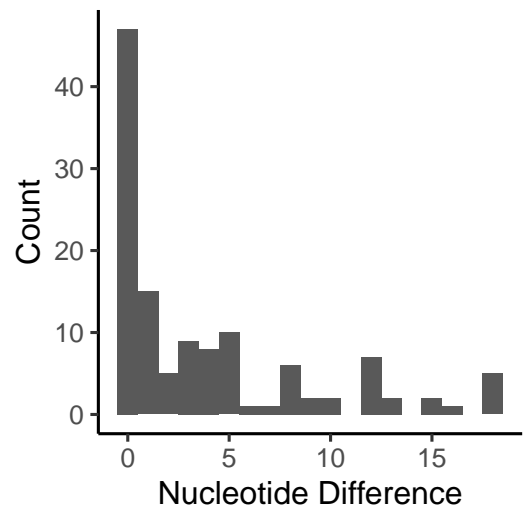
IGHV4-59*12

104 sequences assigned
2 (1.9%) exact matches, in which:
2 unique CDR3
2 unique J



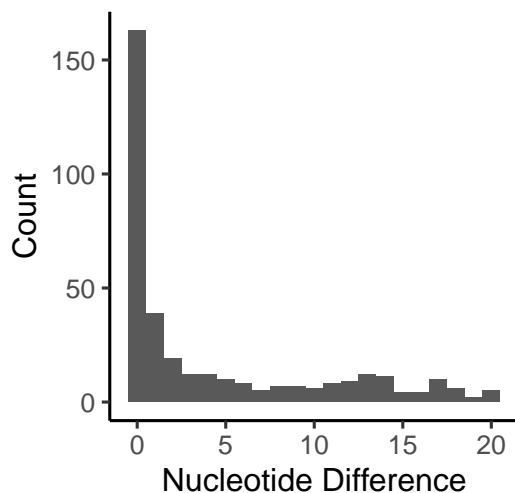
IGHV5-10-1*01_03

125 sequences assigned
47 (37.6%) exact matches, in which:
27 unique CDR3
5 unique J



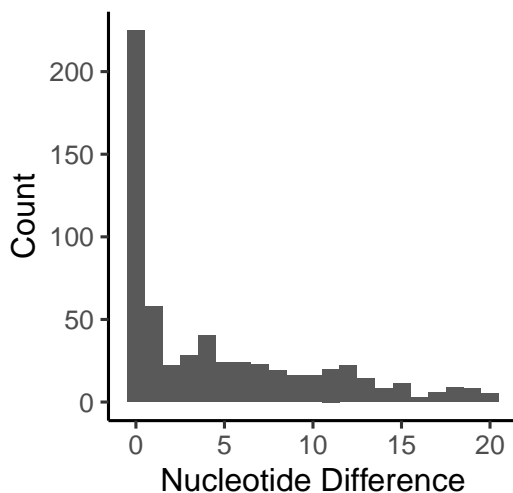
IGHV4-39*07_C288A

385 sequences assigned
163 (42.3%) exact matches, in which:
144 unique CDR3
6 unique J



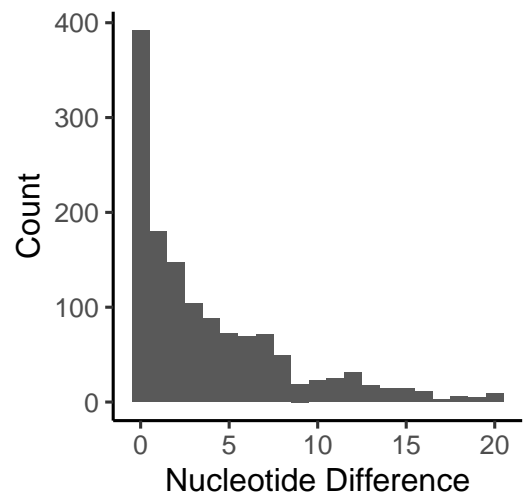
IGHV4-59*02_G88A

816 sequences assigned
225 (27.6%) exact matches, in which:
214 unique CDR3
6 unique J



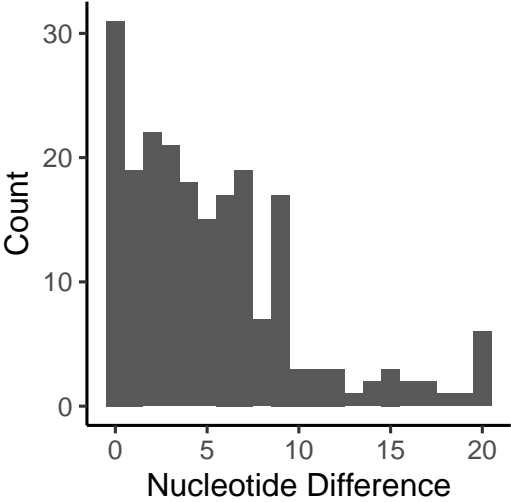
IGHV5-51*07_A128G

1422 sequences assigned
392 (27.6%) exact matches, in which:
227 unique CDR3
5 unique J



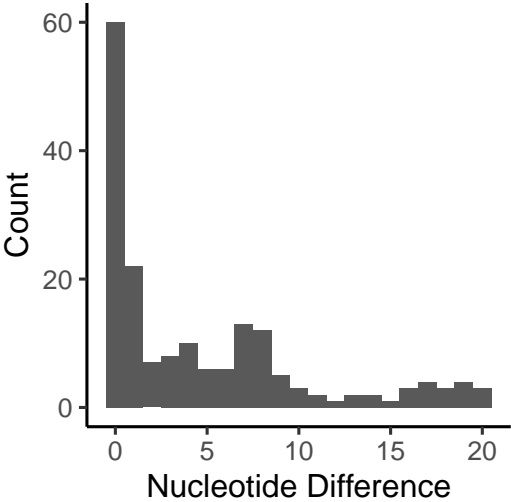
IGHV6-1*01_02

243 sequences assigned
31 (12.8%) exact matches, in which:
30 unique CDR3
4 unique J



IGHV7-4-1*02

182 sequences assigned
60 (33%) exact matches, in which:
58 unique CDR3
6 unique J





Warning – no inferred sequences found.