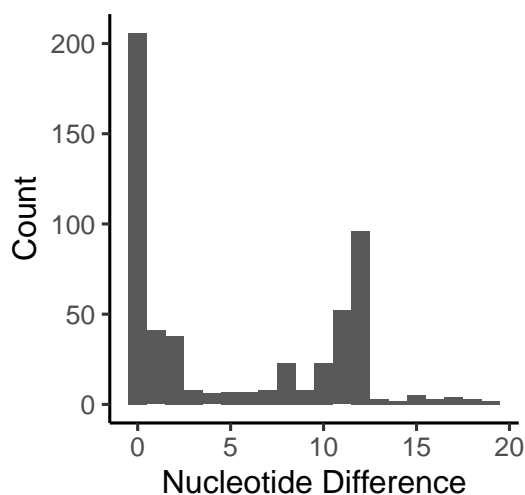


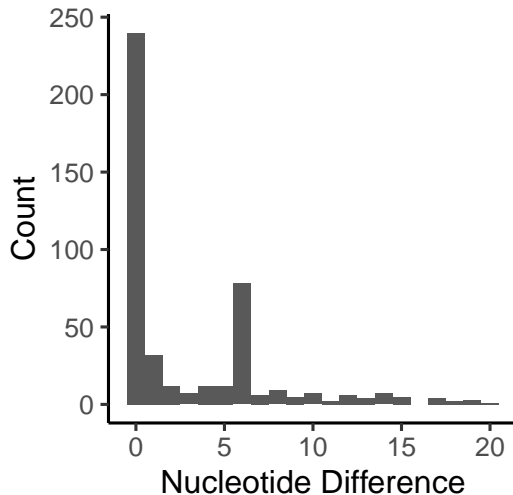
IGHV1-2*04

556 sequences assigned
206 (37.1%) exact matches, in which:
199 unique CDR3
6 unique J



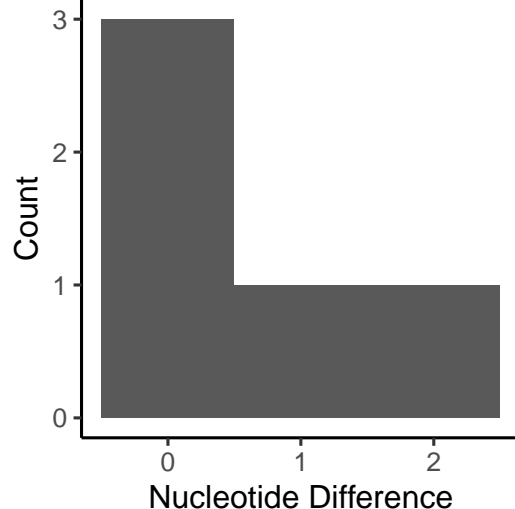
IGHV1-18*01

512 sequences assigned
240 (46.9%) exact matches, in which:
235 unique CDR3
6 unique J



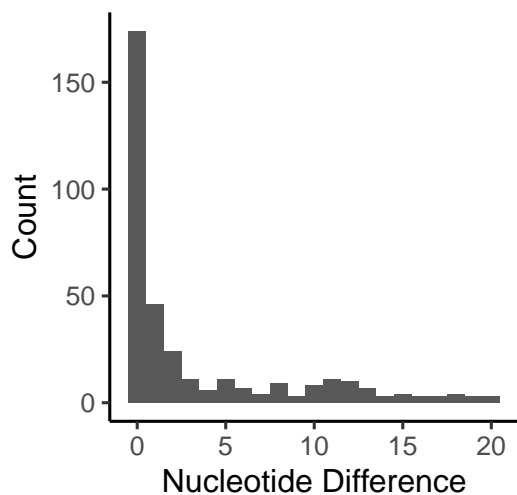
IGHV1-45*02

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



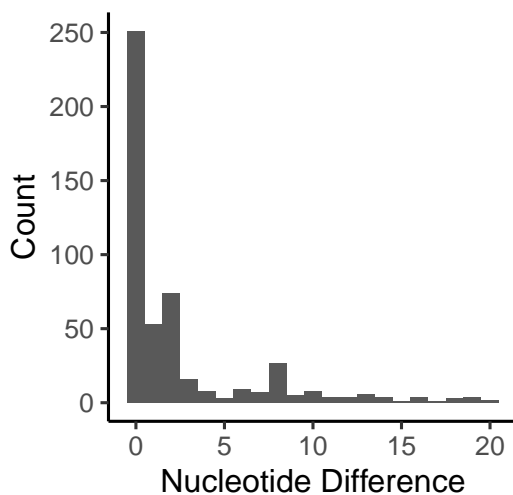
IGHV1-3*01_05

429 sequences assigned
174 (40.6%) exact matches, in which:
167 unique CDR3
6 unique J



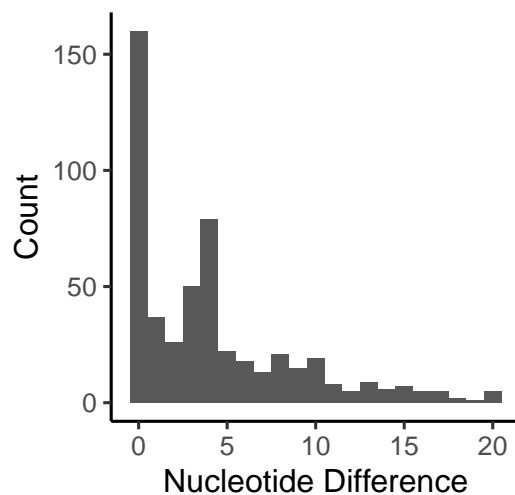
IGHV1-18*04

542 sequences assigned
251 (46.3%) exact matches, in which:
242 unique CDR3
6 unique J



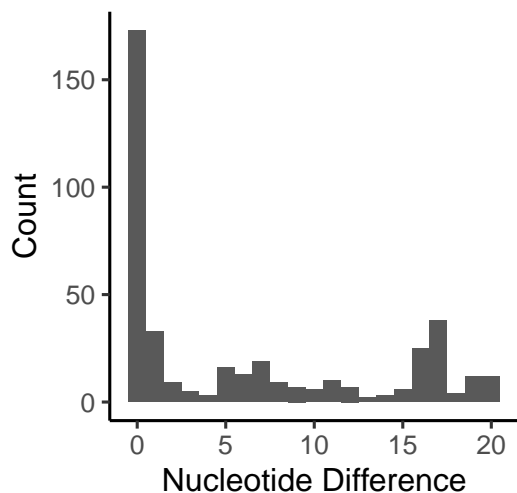
IGHV1-46*01

534 sequences assigned
160 (30%) exact matches, in which:
153 unique CDR3
6 unique J



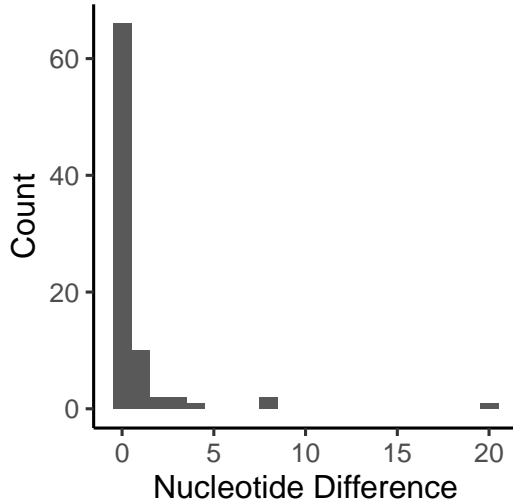
IGHV1-8*01

435 sequences assigned
173 (39.8%) exact matches, in which:
161 unique CDR3
6 unique J



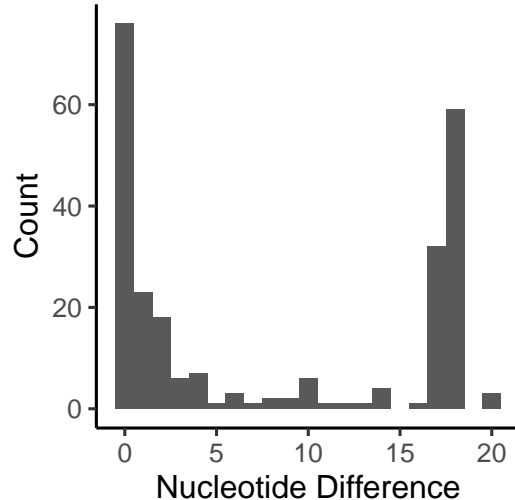
IGHV1-24*01

89 sequences assigned
66 (74.2%) exact matches, in which:
62 unique CDR3
6 unique J



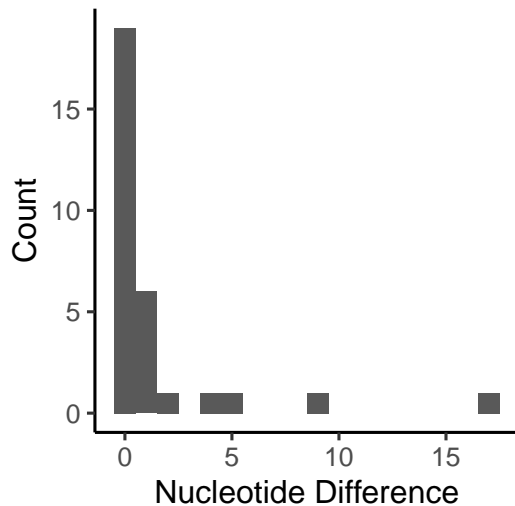
IGHV1-46*03

256 sequences assigned
76 (29.7%) exact matches, in which:
67 unique CDR3
5 unique J



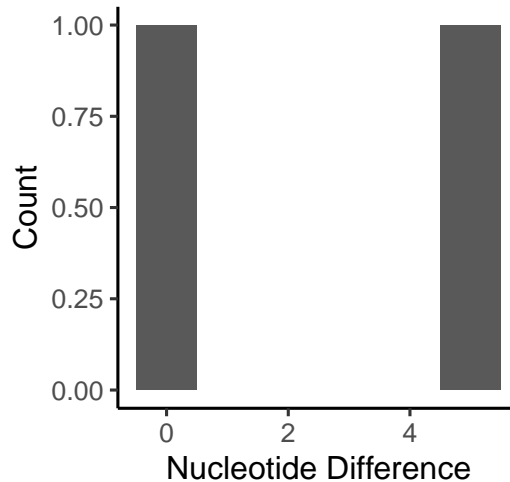
IGHV1-58*02

31 sequences assigned
19 (61.3%) exact matches, in which:
19 unique CDR3
4 unique J



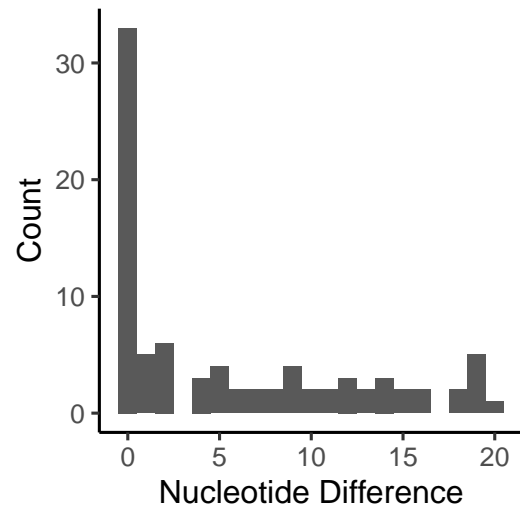
IGHV1-69-2*01

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



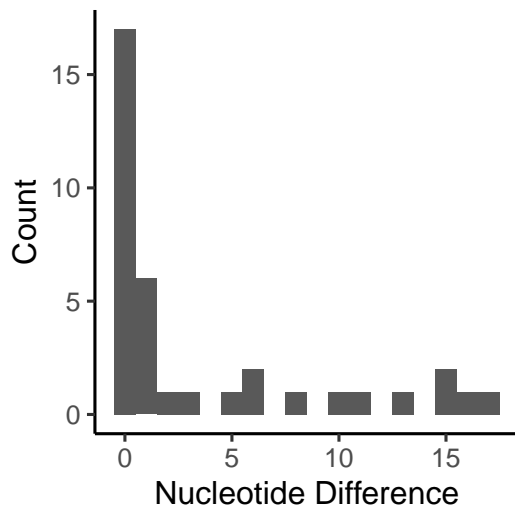
IGHV2-5*01

91 sequences assigned
33 (36.3%) exact matches, in which:
30 unique CDR3
5 unique J



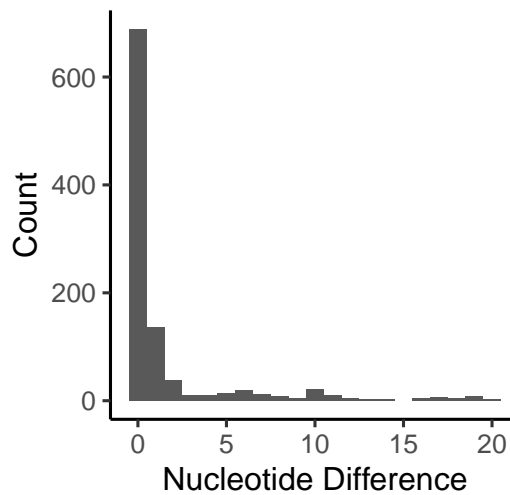
IGHV1-58*01_03

38 sequences assigned
17 (44.7%) exact matches, in which:
16 unique CDR3
4 unique J



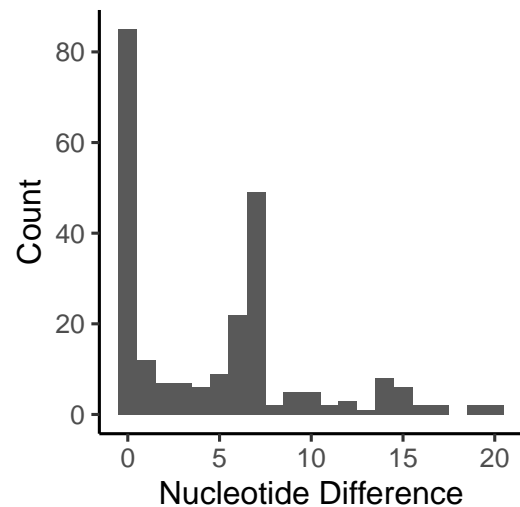
IGHV1-69*01_12_13

1046 sequences assigned
689 (65.9%) exact matches, in which:
670 unique CDR3
6 unique J



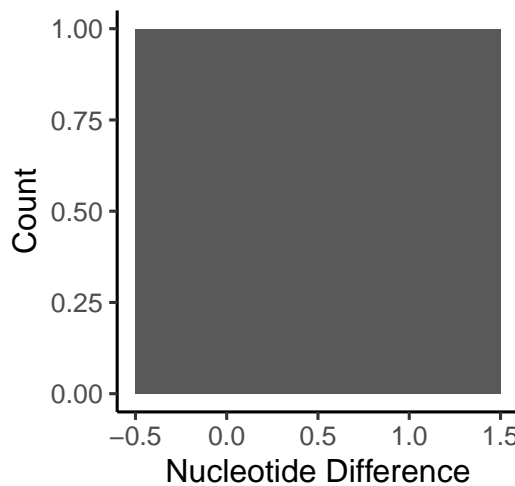
IGHV2-5*02

282 sequences assigned
85 (30.1%) exact matches, in which:
78 unique CDR3
5 unique J



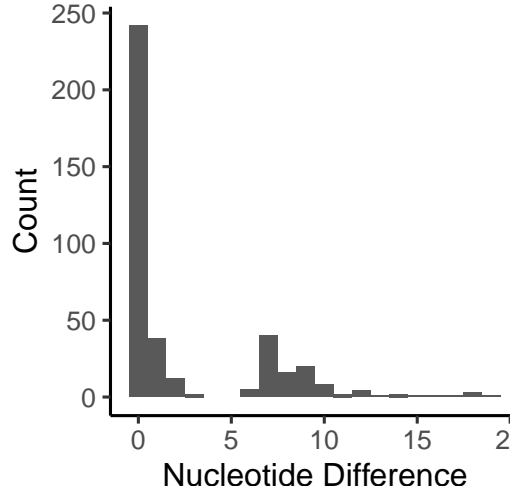
IGHV1-68*01

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



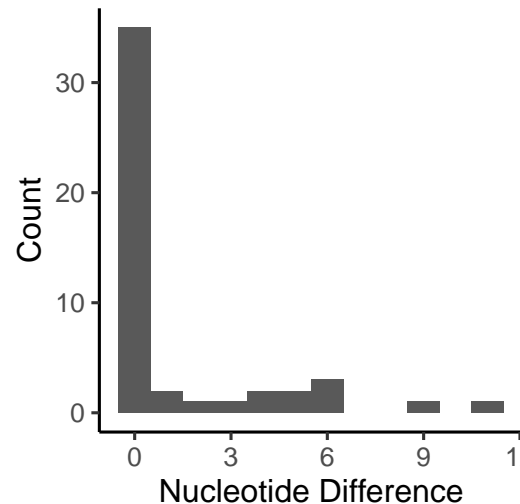
IGHV1-69*06_14

405 sequences assigned
242 (59.8%) exact matches, in which:
237 unique CDR3
6 unique J



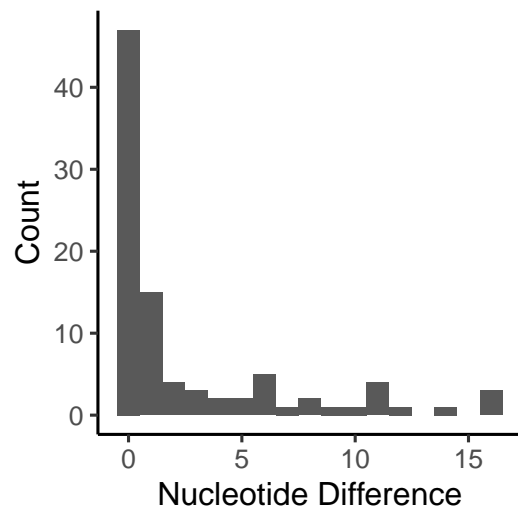
IGHV2-26*01

49 sequences assigned
35 (71.4%) exact matches, in which:
33 unique CDR3
4 unique J



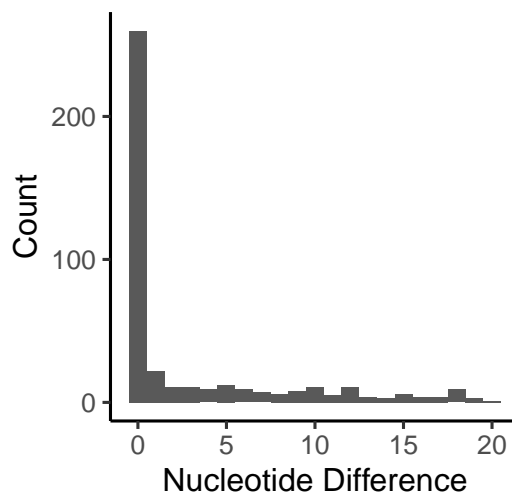
IGHV2-70*01

94 sequences assigned
47 (50%) exact matches, in which:
43 unique CDR3
4 unique J



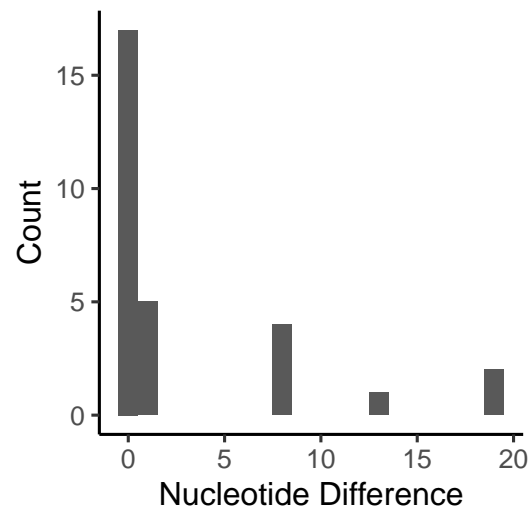
IGHV3-9*01

460 sequences assigned
260 (56.5%) exact matches, in which:
146 unique CDR3
6 unique J



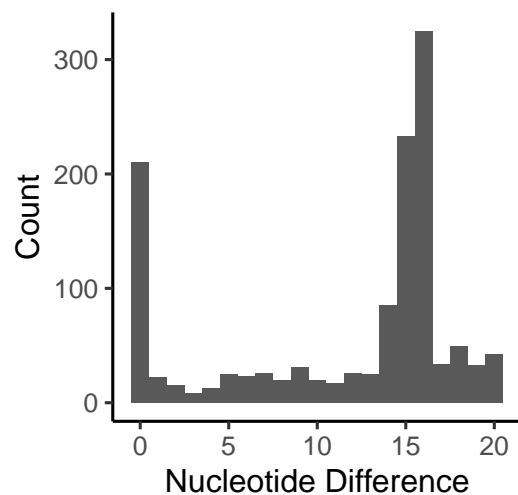
IGHV3-13*01

36 sequences assigned
17 (47.2%) exact matches, in which:
9 unique CDR3
2 unique J



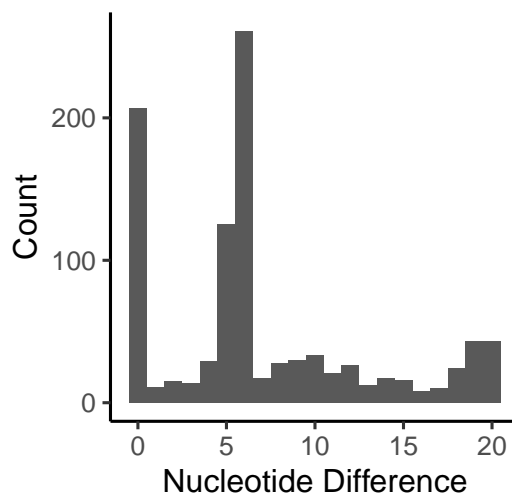
IGHV3-7*01

1594 sequences assigned
210 (13.2%) exact matches, in which:
116 unique CDR3
5 unique J



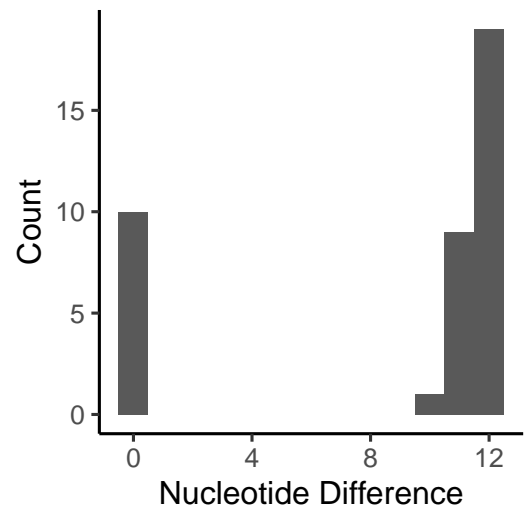
IGHV3-11*01

1037 sequences assigned
207 (20%) exact matches, in which:
111 unique CDR3
5 unique J



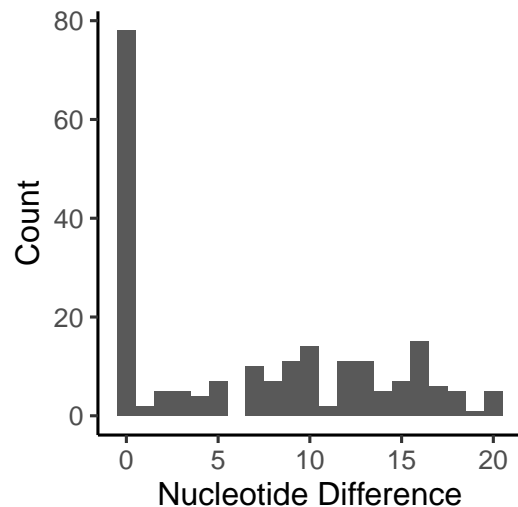
IGHV3-13*05

39 sequences assigned
10 (25.6%) exact matches, in which:
5 unique CDR3
4 unique J



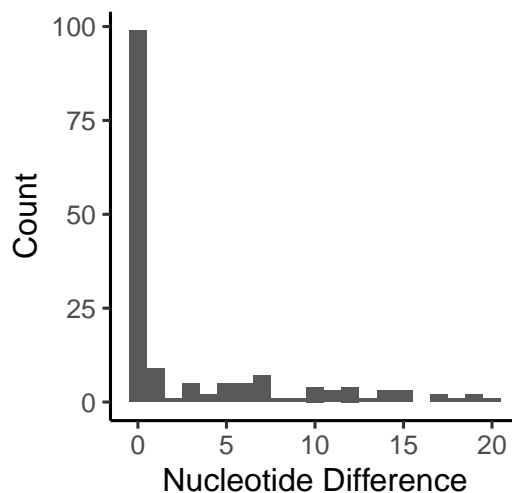
IGHV3-7*05

238 sequences assigned
78 (32.8%) exact matches, in which:
41 unique CDR3
4 unique J



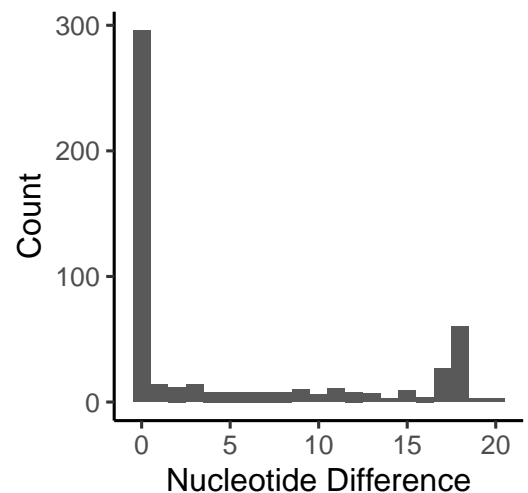
IGHV3-11*06

183 sequences assigned
99 (54.1%) exact matches, in which:
55 unique CDR3
6 unique J



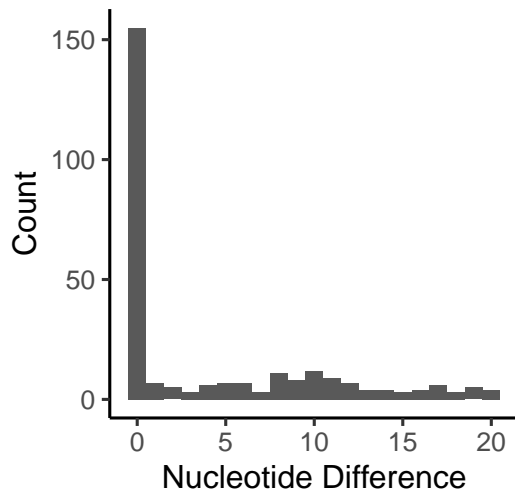
IGHV3-15*07

668 sequences assigned
296 (44.3%) exact matches, in which:
182 unique CDR3
5 unique J



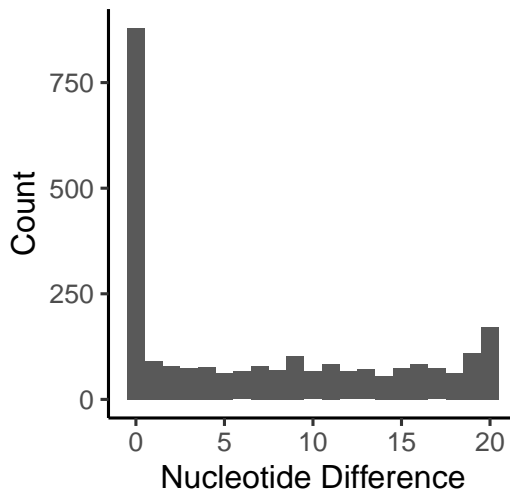
IGHV3-15*01_02

322 sequences assigned
155 (48.1%) exact matches, in which:
93 unique CDR3
4 unique J



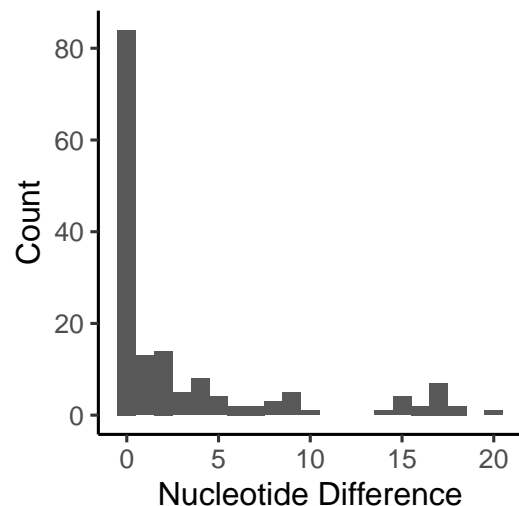
IGHV3-23*01_04

4033 sequences assigned
880 (21.8%) exact matches, in which:
483 unique CDR3
6 unique J



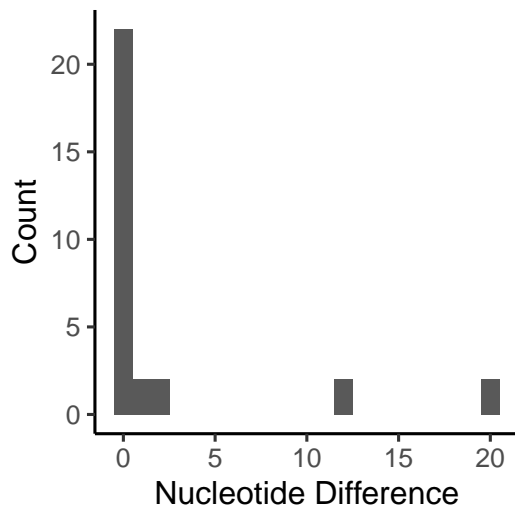
IGHV3-30*03_T288C

194 sequences assigned
84 (43.3%) exact matches, in which:
73 unique CDR3
4 unique J



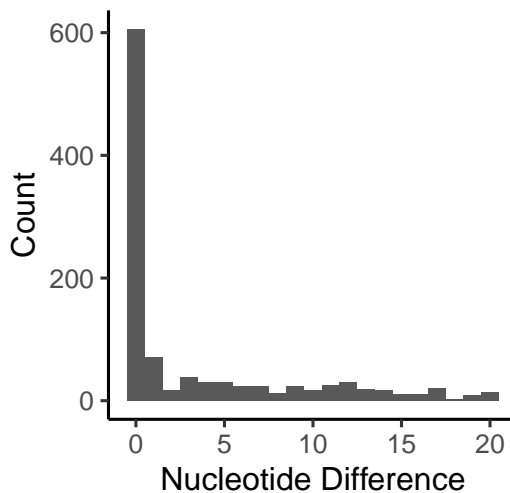
IGHV3-20*03_04

43 sequences assigned
22 (51.2%) exact matches, in which:
12 unique CDR3
4 unique J



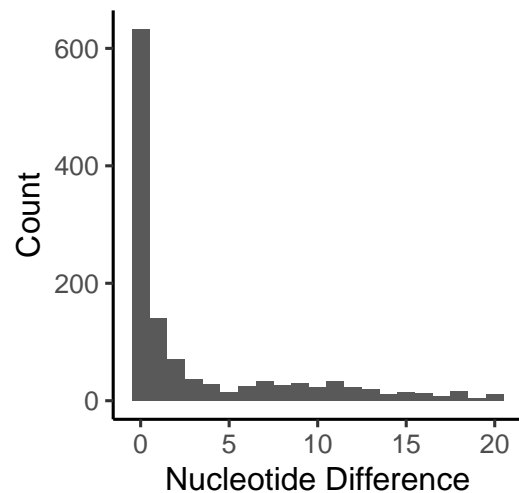
IGHV3-30-3*01

1147 sequences assigned
606 (52.8%) exact matches, in which:
361 unique CDR3
6 unique J



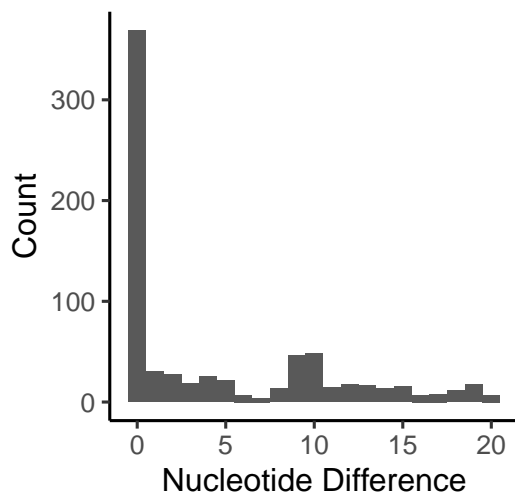
IGHV3-33*01

1282 sequences assigned
633 (49.4%) exact matches, in which:
368 unique CDR3
6 unique J



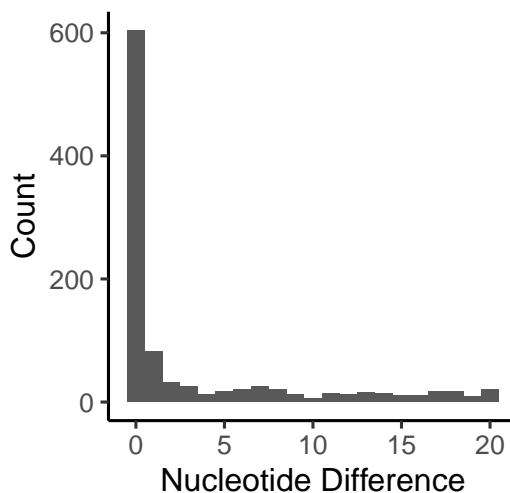
IGHV3-21*01_02

791 sequences assigned
369 (46.6%) exact matches, in which:
209 unique CDR3
6 unique J



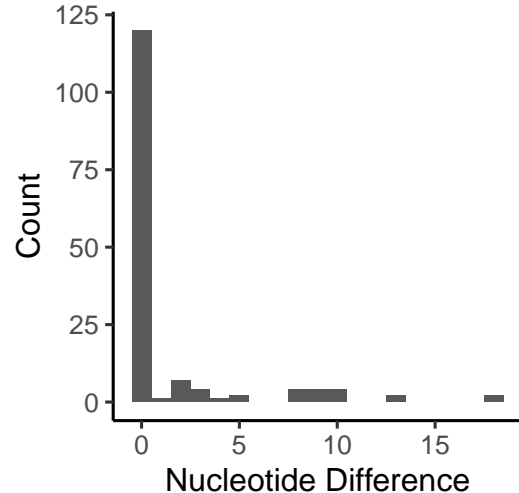
IGHV3-30*03

1366 sequences assigned
604 (44.2%) exact matches, in which:
363 unique CDR3
6 unique J



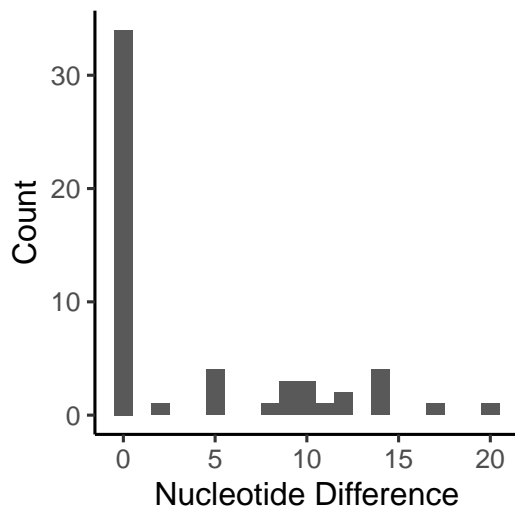
IGHV3-33*08

153 sequences assigned
120 (78.4%) exact matches, in which:
98 unique CDR3
5 unique J



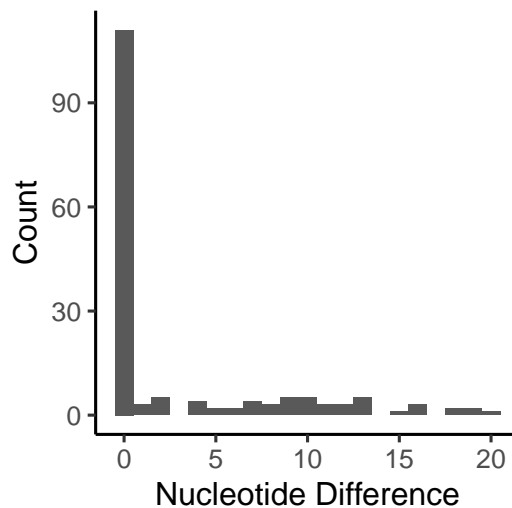
IGHV3-43*01

65 sequences assigned
34 (52.3%) exact matches, in which:
18 unique CDR3
5 unique J



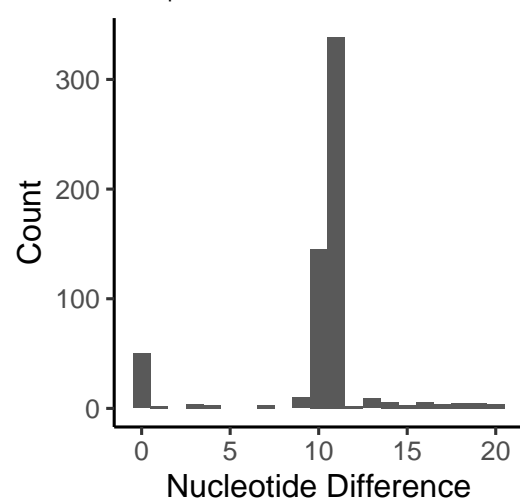
IGHV3-49*03_05

200 sequences assigned
111 (55.5%) exact matches, in which:
68 unique CDR3
5 unique J



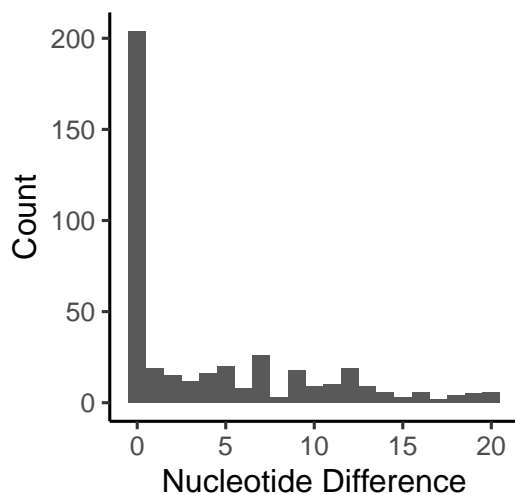
IGHV3-64*01

621 sequences assigned
50 (8.1%) exact matches, in which:
27 unique CDR3
4 unique J



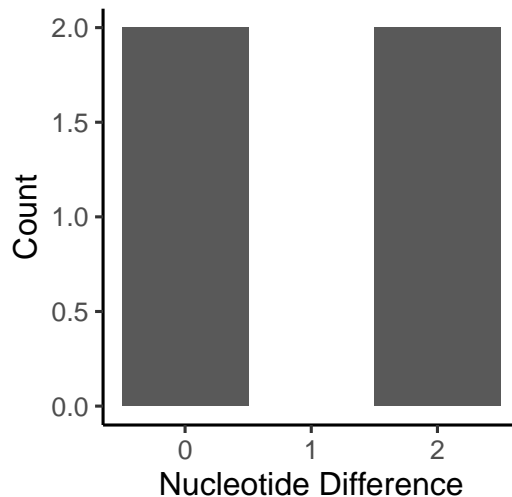
IGHV3-48*01

438 sequences assigned
204 (46.6%) exact matches, in which:
115 unique CDR3
5 unique J



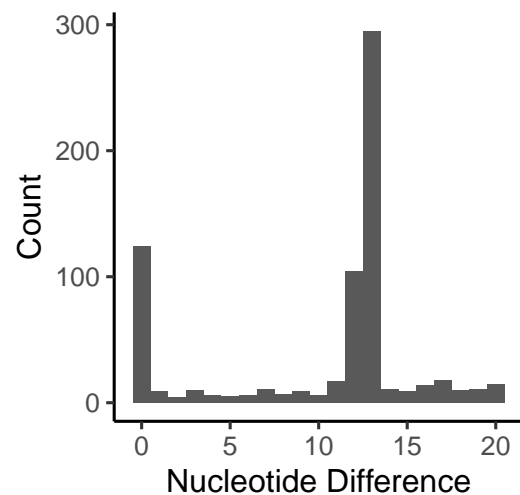
IGHV3-52*02

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



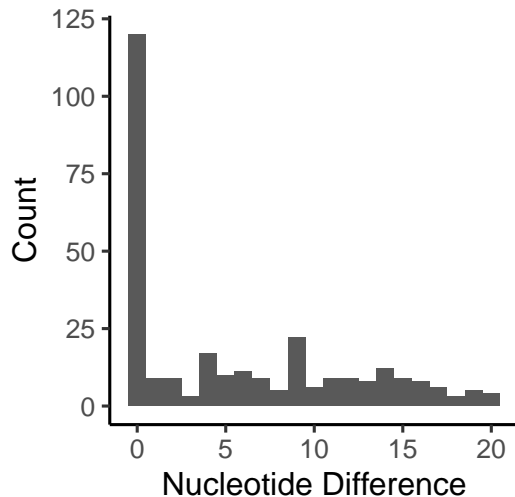
IGHV3-66*01

733 sequences assigned
124 (16.9%) exact matches, in which:
69 unique CDR3
6 unique J



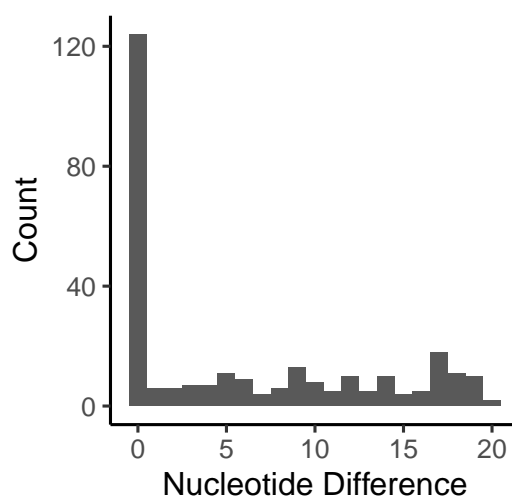
IGHV3-48*02

331 sequences assigned
120 (36.3%) exact matches, in which:
66 unique CDR3
4 unique J



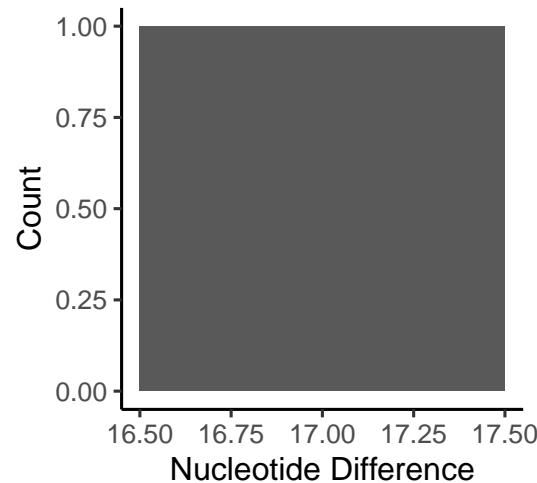
IGHV3-53*01_02

320 sequences assigned
124 (38.8%) exact matches, in which:
64 unique CDR3
6 unique J



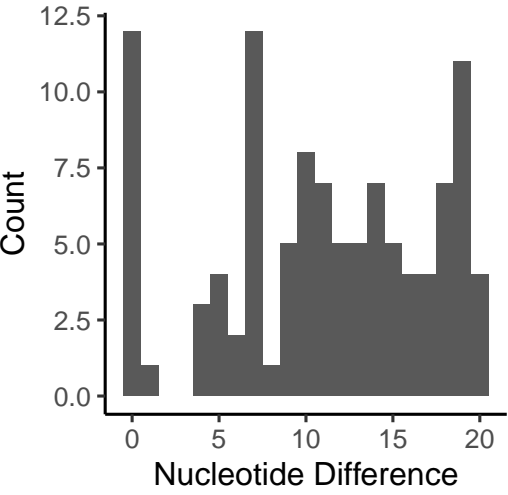
IGHV3-69-1*01

4 sequences assigned
No exact matches.



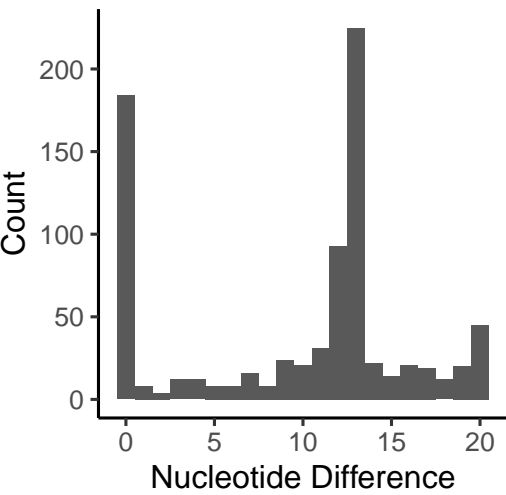
IGHV3-72*01

122 sequences assigned
12 (9.8%) exact matches, in which:
7 unique CDR3
2 unique J



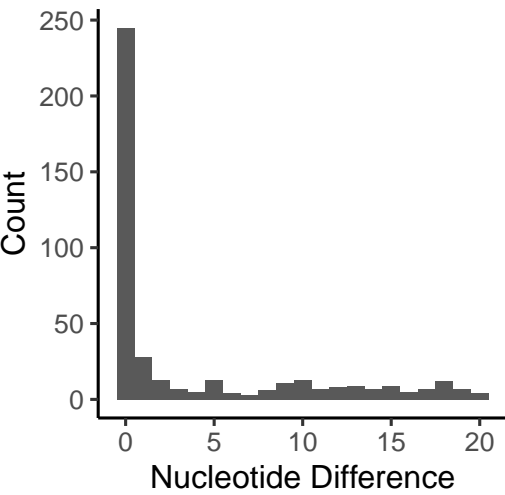
IGHV3-74*01_02

971 sequences assigned
184 (18.9%) exact matches, in which:
97 unique CDR3
5 unique J



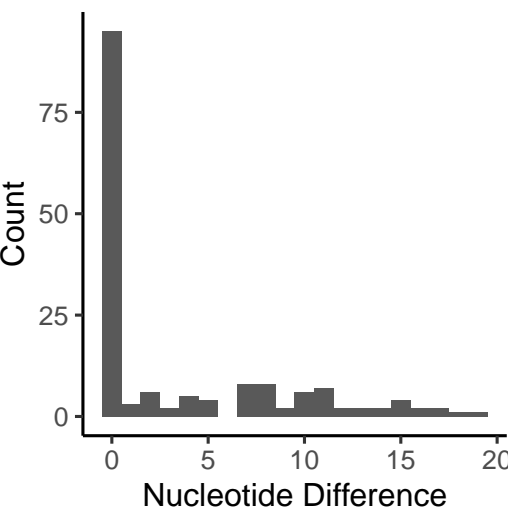
IGHV4-4*02_03

853 sequences assigned
245 (28.7%) exact matches, in which:
221 unique CDR3
6 unique J



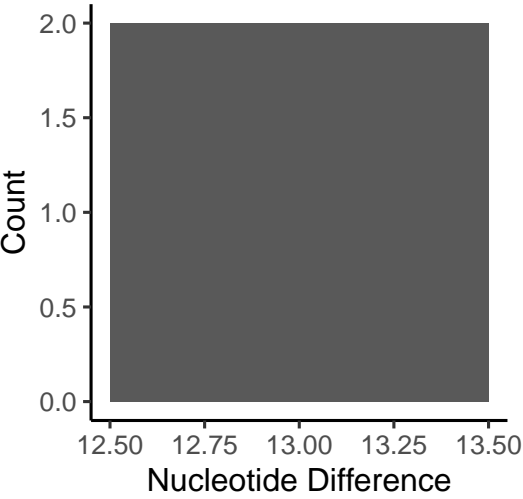
IGHV3-73*01_02

314 sequences assigned
95 (30.3%) exact matches, in which:
52 unique CDR3
4 unique J



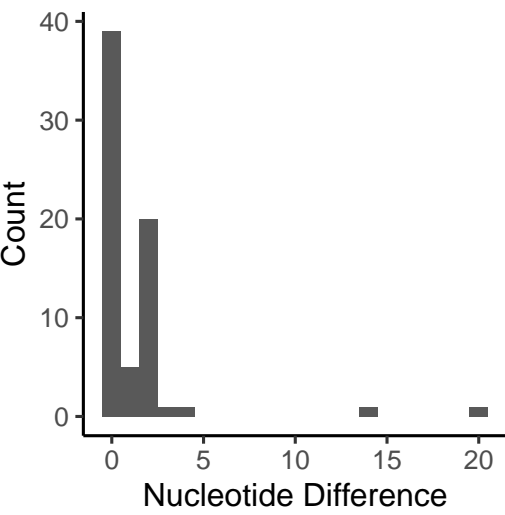
IGHV3-43D*04

2 sequences assigned
No exact matches.



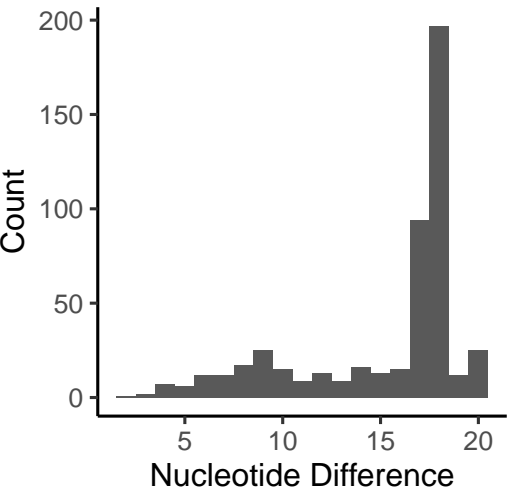
IGHV4-4*02_03_A245C_0

74 sequences assigned
39 (52.7%) exact matches, in which:
39 unique CDR3
6 unique J



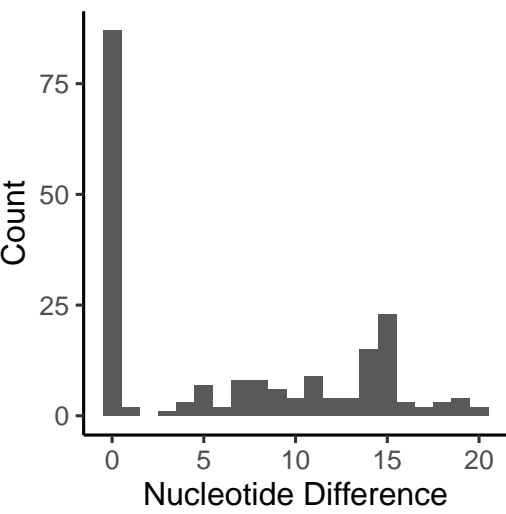
IGHV3-74*03

1165 sequences assigned
No exact matches.



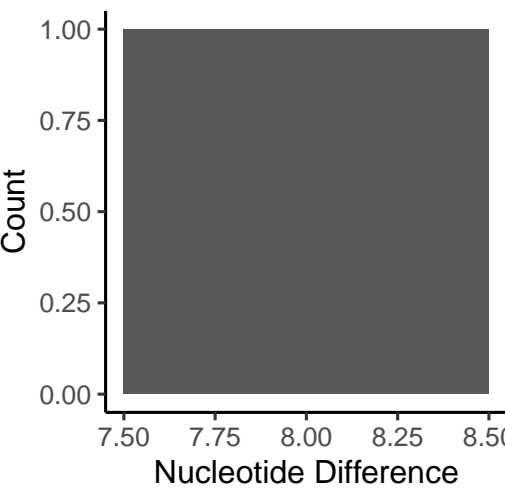
IGHV3-64D*08

220 sequences assigned
87 (39.5%) exact matches, in which:
38 unique CDR3
5 unique J



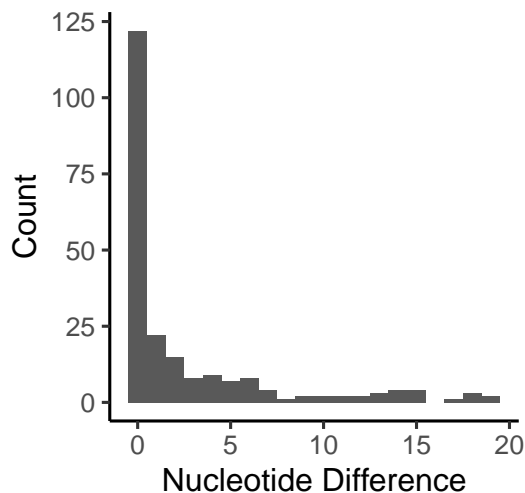
IGHV4-28*03

1 sequences assigned
No exact matches.



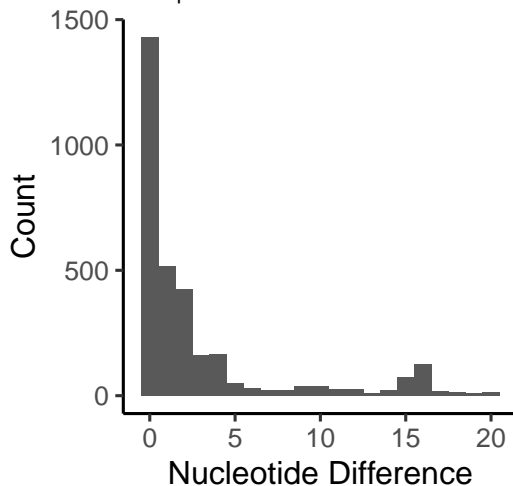
IGHV4-30-2*01

285 sequences assigned
122 (42.8%) exact matches, in which:
93 unique CDR3
5 unique J



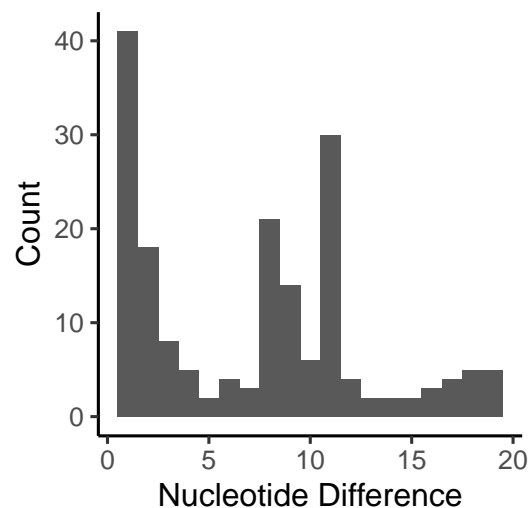
IGHV4-34*01_02

3763 sequences assigned
1429 (38%) exact matches, in which:
1191 unique CDR3
6 unique J



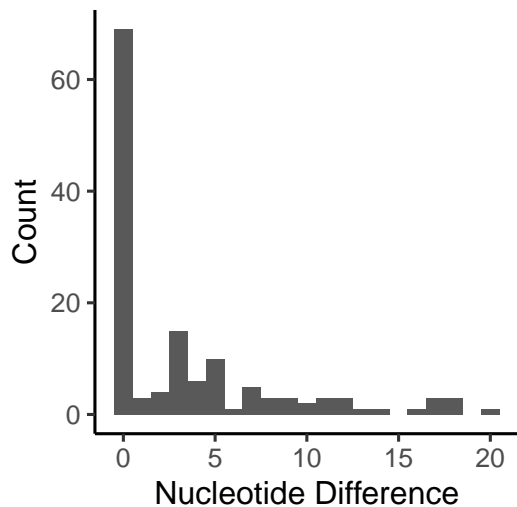
IGHV4-39*07

228 sequences assigned
No exact matches.



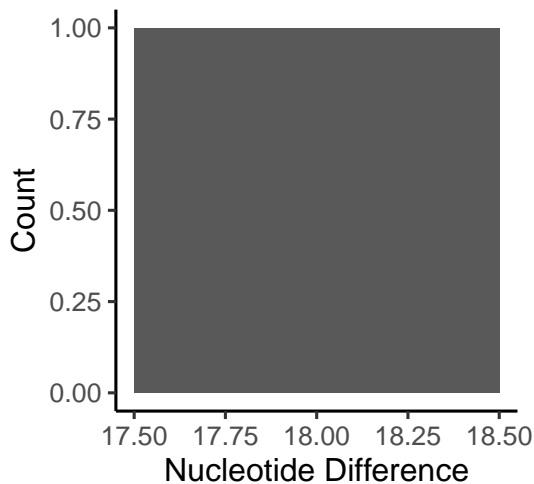
IGHV4-30-4*01

145 sequences assigned
69 (47.6%) exact matches, in which:
68 unique CDR3
5 unique J



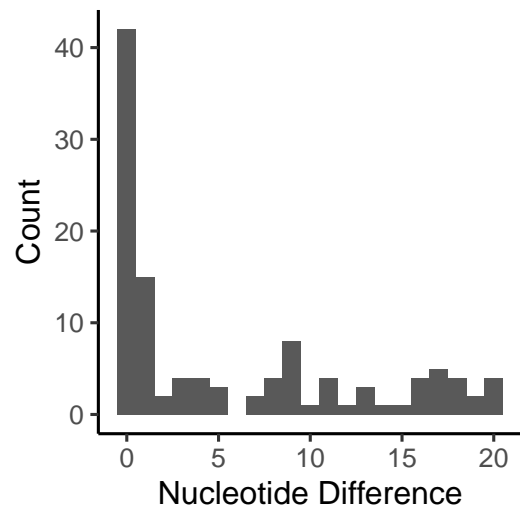
IGHV4-38-2*01

2 sequences assigned
No exact matches.



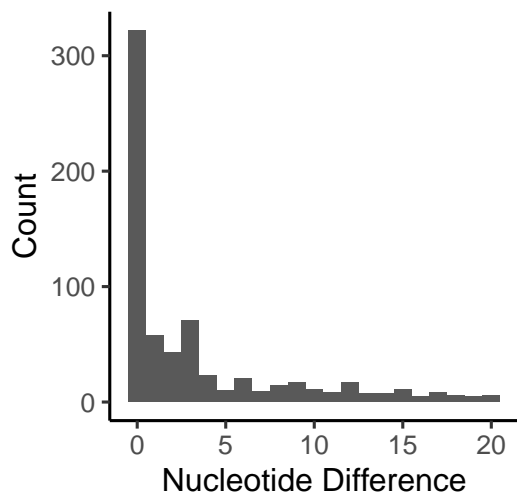
IGHV4-39*01_05

124 sequences assigned
42 (33.9%) exact matches, in which:
39 unique CDR3
6 unique J



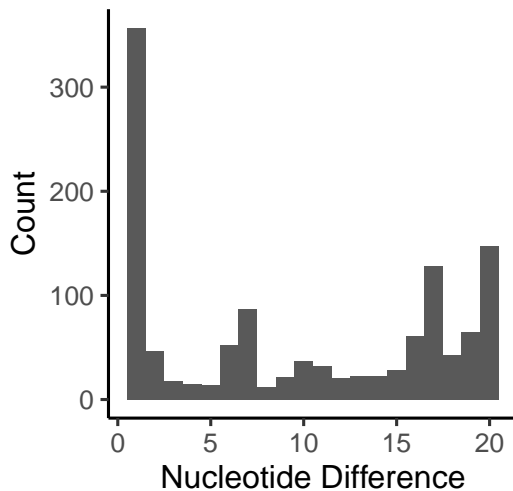
IGHV4-31*02

835 sequences assigned
322 (38.6%) exact matches, in which:
301 unique CDR3
6 unique J



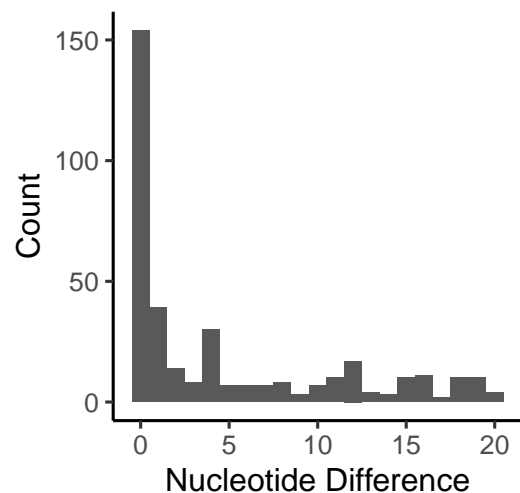
IGHV4-39*02

1858 sequences assigned
No exact matches.



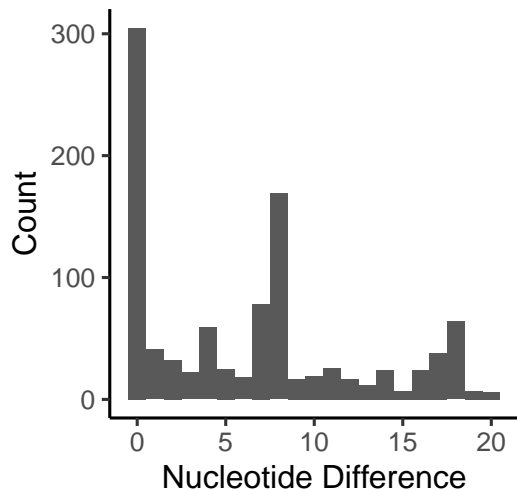
IGHV4-59*08

401 sequences assigned
154 (38.4%) exact matches, in which:
145 unique CDR3
5 unique J



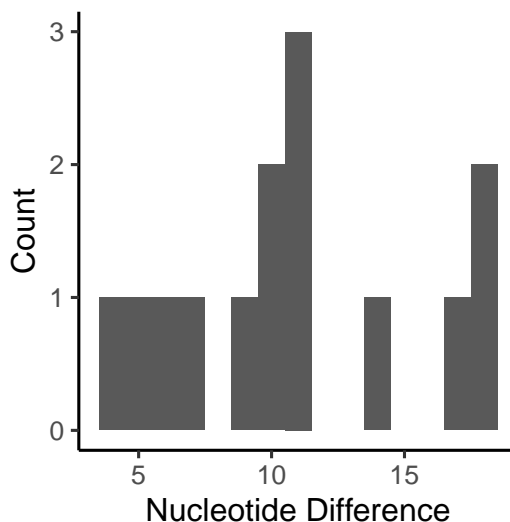
IGHV4-59*02_G88A

1183 sequences assigned
305 (25.8%) exact matches, in which:
287 unique CDR3
6 unique J



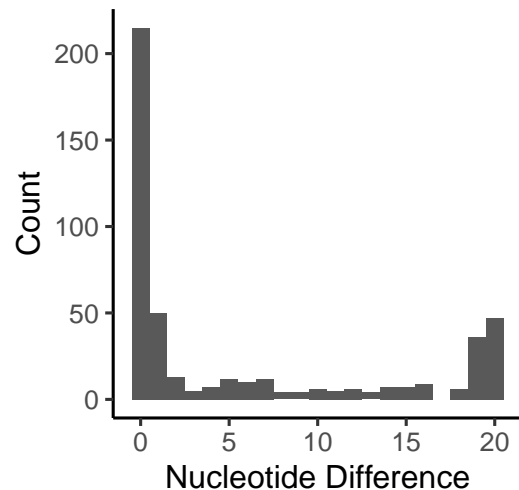
IGHV4-61*02

18 sequences assigned
No exact matches.



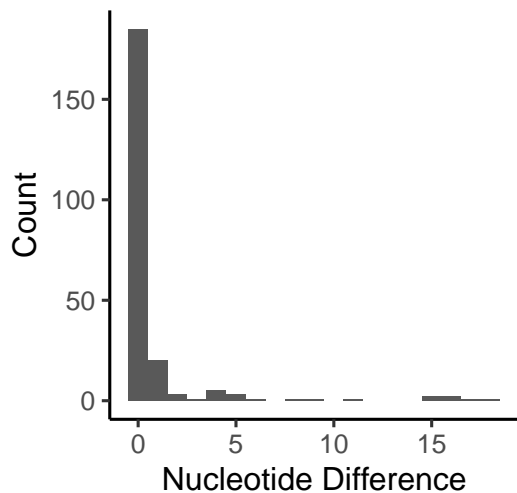
IGHV5-10-1*01_03

537 sequences assigned
215 (40%) exact matches, in which:
140 unique CDR3
5 unique J



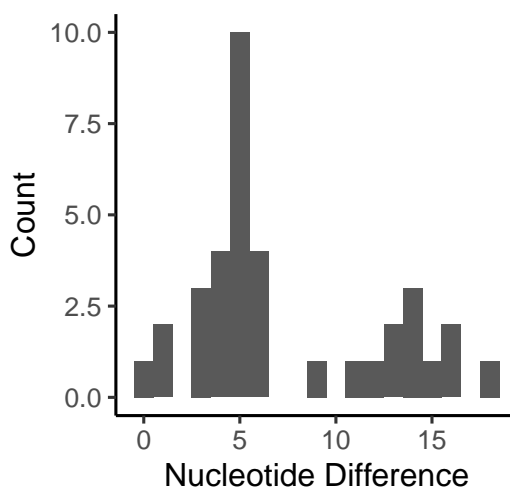
IGHV4-59*12_C300T

229 sequences assigned
185 (80.8%) exact matches, in which:
184 unique CDR3
6 unique J



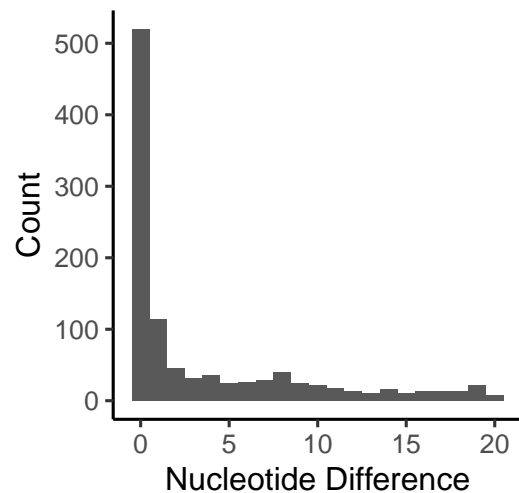
IGHV4-61*08

127 sequences assigned
1 (0.8%) exact matches, in which:
1 unique CDR3
1 unique J



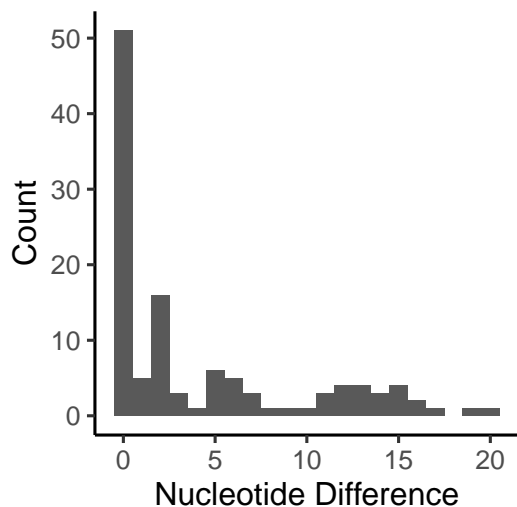
IGHV5-51*07_A128G

1185 sequences assigned
520 (43.9%) exact matches, in which:
307 unique CDR3
5 unique J



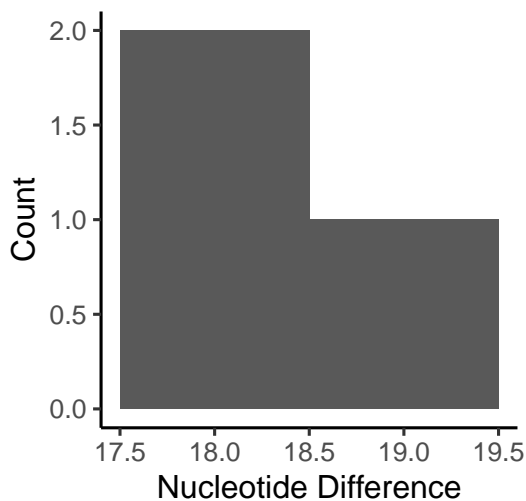
IGHV4-61*01

128 sequences assigned
51 (39.8%) exact matches, in which:
49 unique CDR3
5 unique J



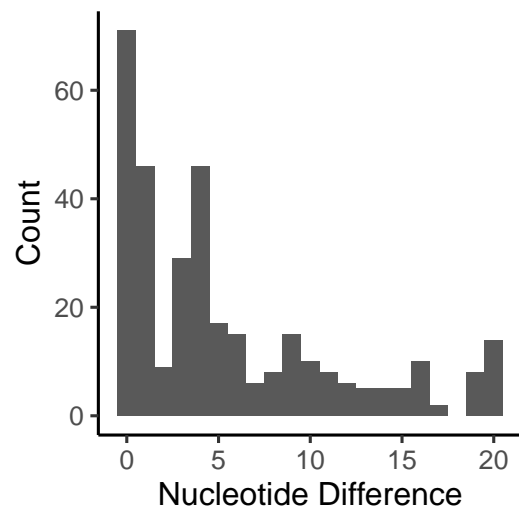
IGHV4/OR15-8*02

15 sequences assigned
No exact matches.



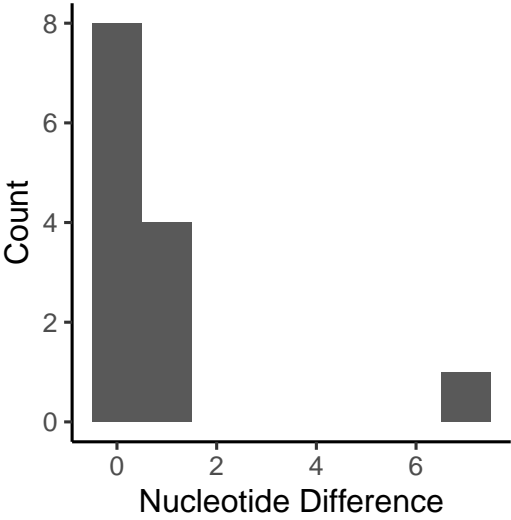
IGHV6-1*01_02

346 sequences assigned
71 (20.5%) exact matches, in which:
68 unique CDR3
5 unique J



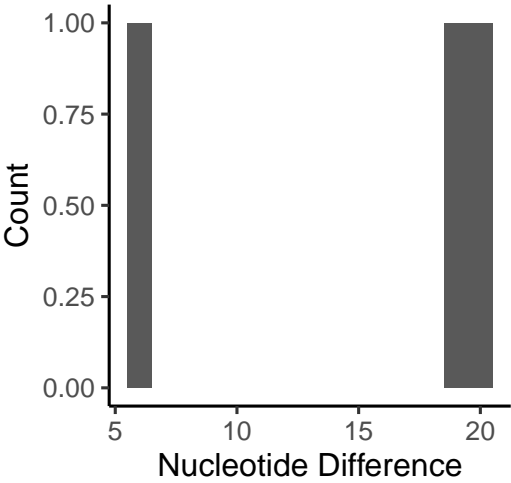
IGHV7-4-1*01

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



IGHV7-4-1*02

4 sequences assigned
No exact matches.





Warning – no inferred sequences found.