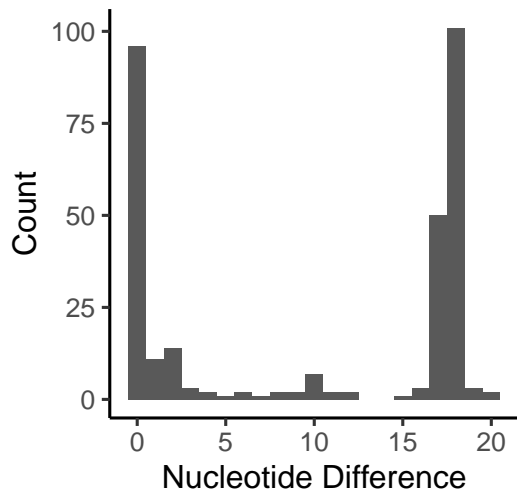


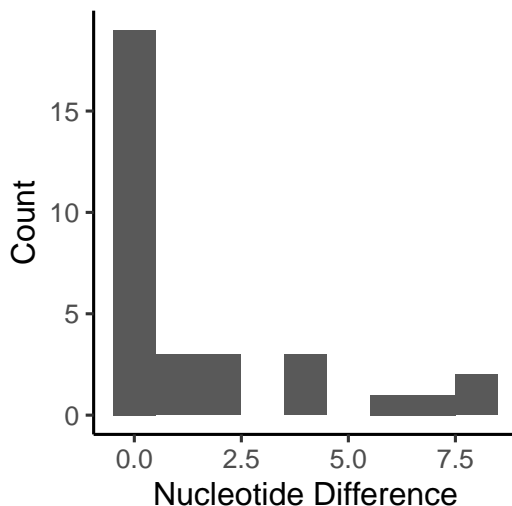
IGHV1-2*04

523 sequences assigned
96 (18.4%) exact matches, in which:
91 unique CDR3
5 unique J



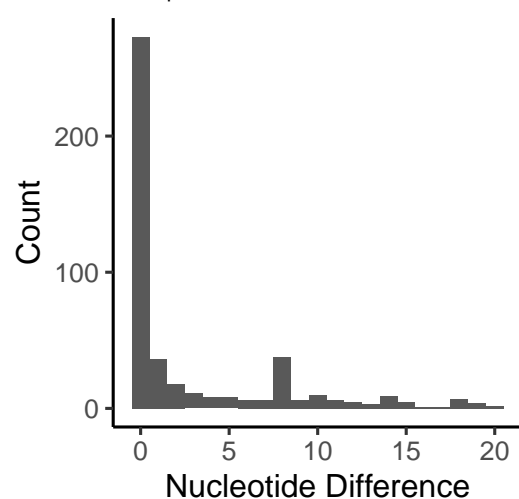
IGHV1-3*01_05_A291G_

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



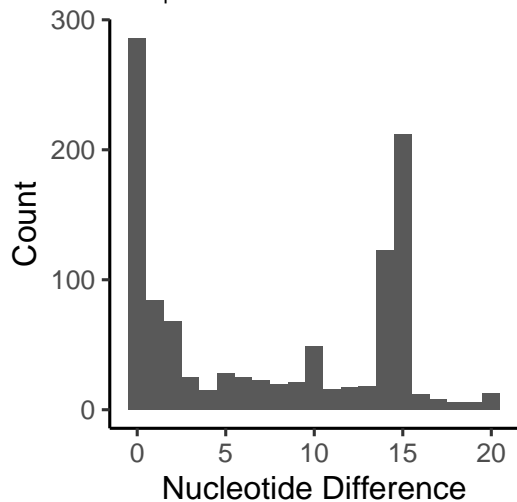
IGHV1-18*04

513 sequences assigned
273 (53.2%) exact matches, in which:
269 unique CDR3
6 unique J



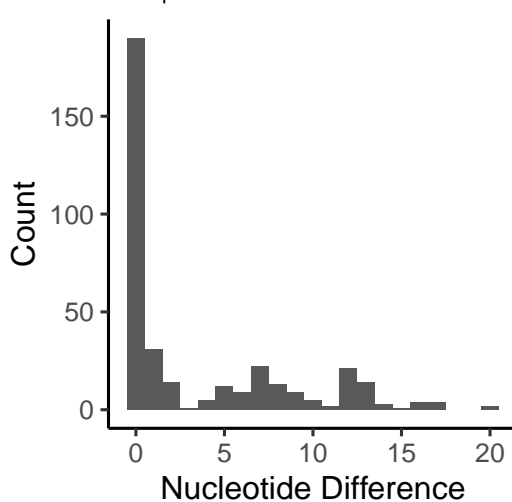
IGHV1-2*06

1473 sequences assigned
286 (19.4%) exact matches, in which:
268 unique CDR3
6 unique J



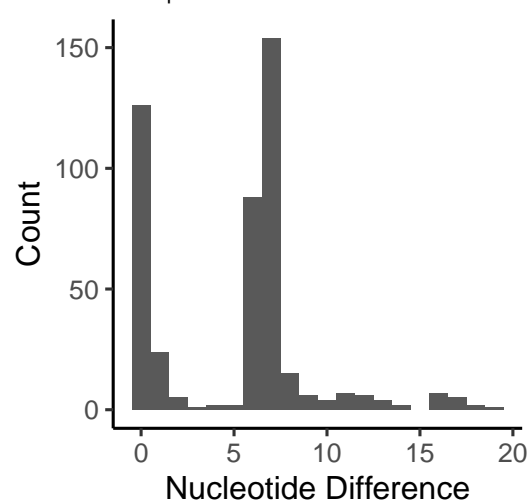
IGHV1-8*01

390 sequences assigned
190 (48.7%) exact matches, in which:
183 unique CDR3
6 unique J



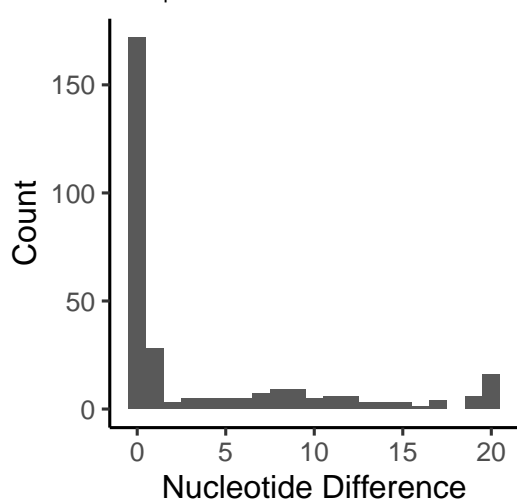
IGHV1-24*01

465 sequences assigned
126 (27.1%) exact matches, in which:
118 unique CDR3
6 unique J



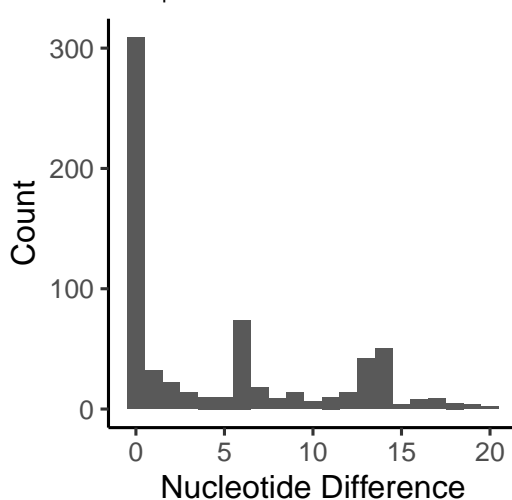
IGHV1-3*01_05

342 sequences assigned
172 (50.3%) exact matches, in which:
162 unique CDR3
6 unique J



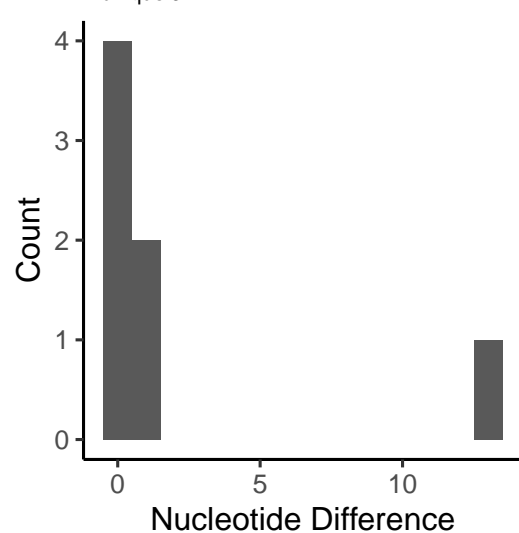
IGHV1-18*01

1023 sequences assigned
309 (30.2%) exact matches, in which:
302 unique CDR3
6 unique J



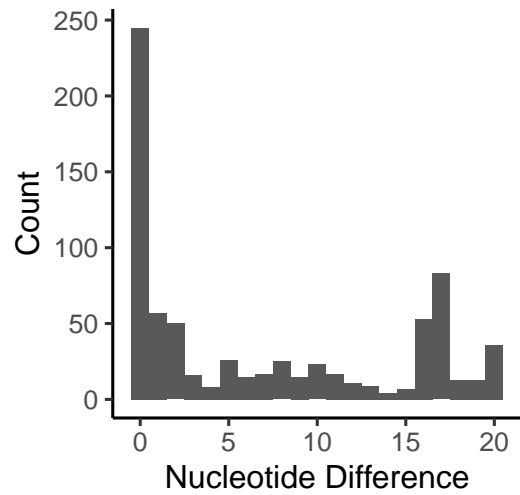
IGHV1-45*02

7 sequences assigned
4 (57.1%) exact matches, in which:
2 unique CDR3
2 unique J



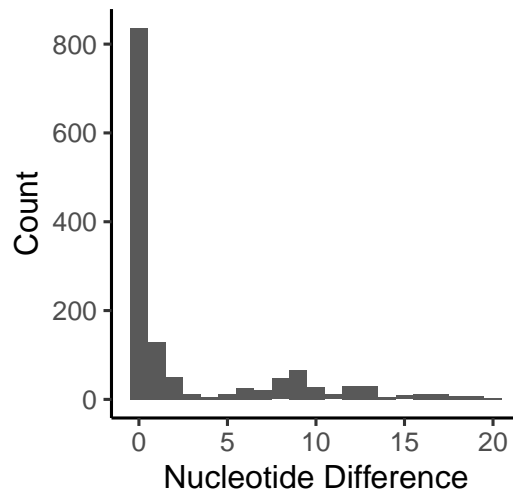
IGHV1-46*01

980 sequences assigned
245 (25%) exact matches, in which:
238 unique CDR3
6 unique J



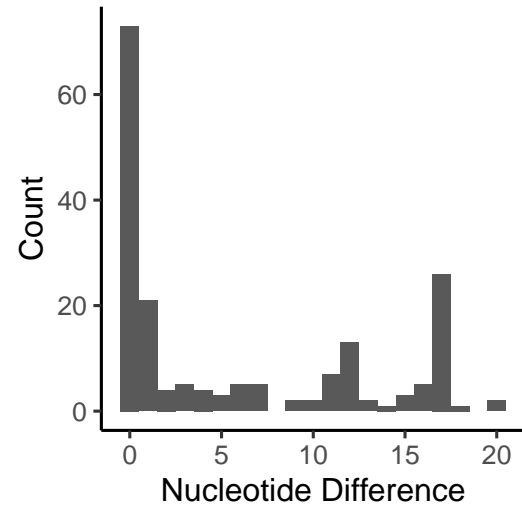
IGHV1-69*01_12_13

1428 sequences assigned
837 (58.6%) exact matches, in which:
816 unique CDR3
6 unique J



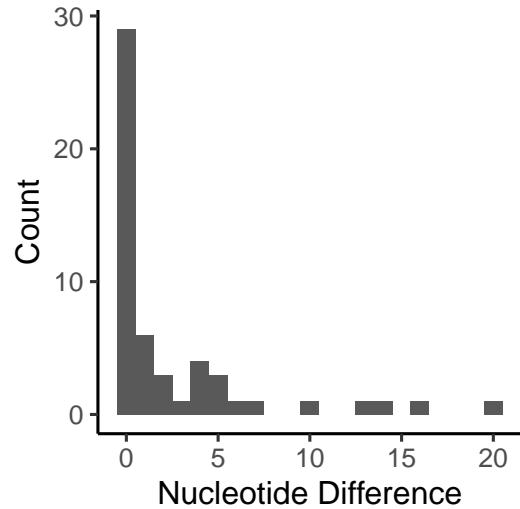
IGHV2-5*02

191 sequences assigned
73 (38.2%) exact matches, in which:
66 unique CDR3
6 unique J



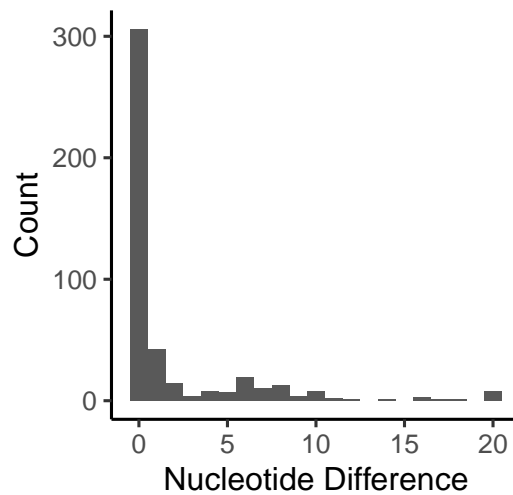
IGHV1-58*01_03

77 sequences assigned
29 (37.7%) exact matches, in which:
29 unique CDR3
4 unique J



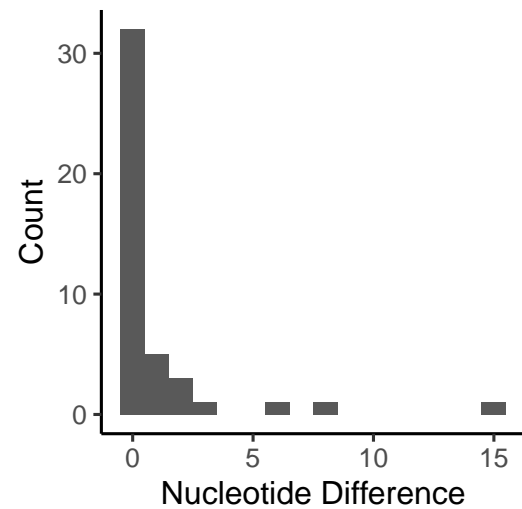
IGHV1-69*06_14_G240A

491 sequences assigned
306 (62.3%) exact matches, in which:
303 unique CDR3
6 unique J



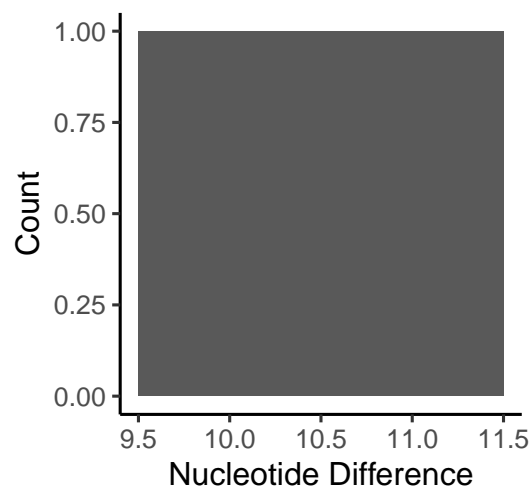
IGHV2-26*01

44 sequences assigned
32 (72.7%) exact matches, in which:
32 unique CDR3
5 unique J



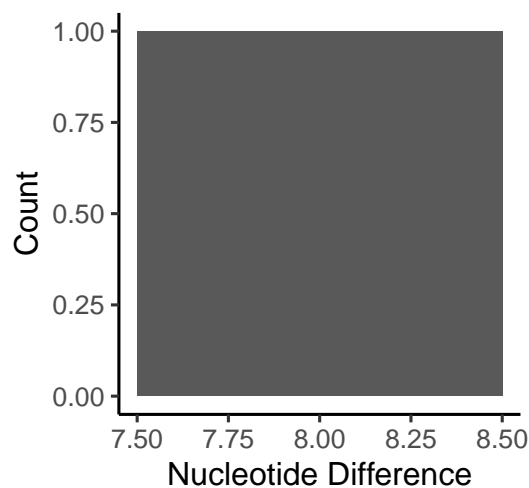
IGHV1-69-2*01

13 sequences assigned
No exact matches.



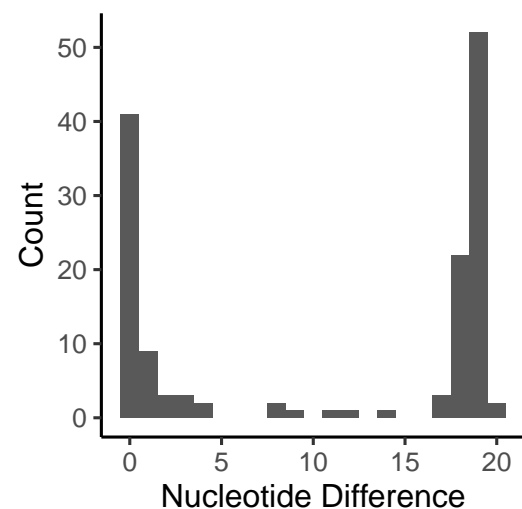
IGHV1-NL1*01

1 sequences assigned
No exact matches.



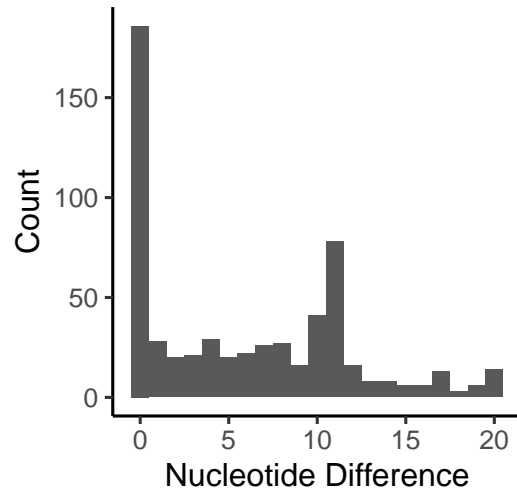
IGHV2-70*01

143 sequences assigned
41 (28.7%) exact matches, in which:
39 unique CDR3
4 unique J



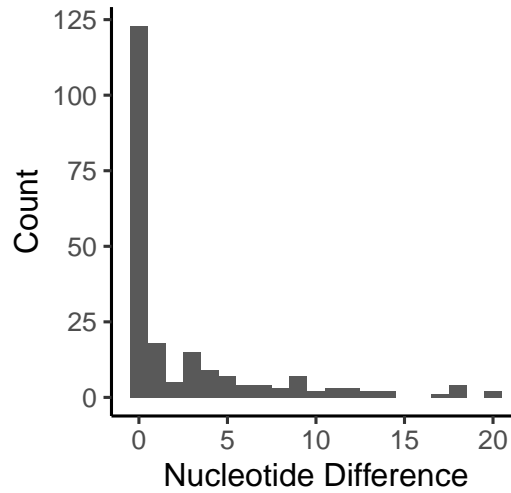
IGHV3-7*01

855 sequences assigned
186 (21.8%) exact matches, in which:
119 unique CDR3
6 unique J



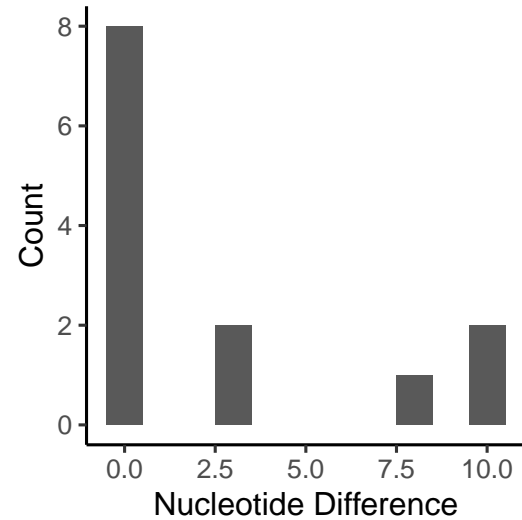
IGHV3-11*01

232 sequences assigned
123 (53%) exact matches, in which:
75 unique CDR3
6 unique J



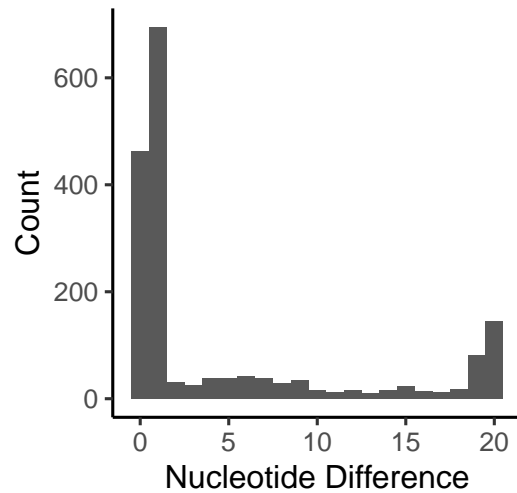
IGHV3-13*05

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



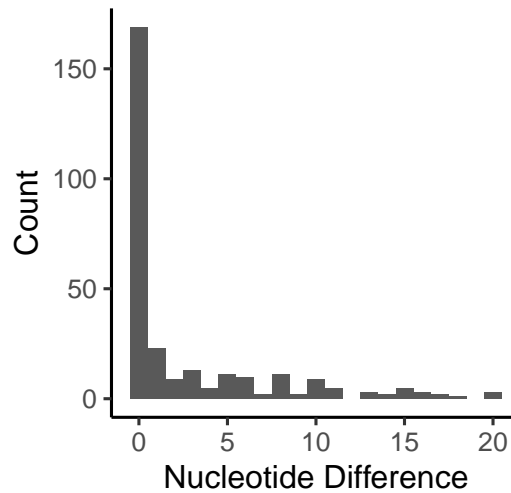
IGHV3-7*03

2338 sequences assigned
462 (19.8%) exact matches, in which:
213 unique CDR3
6 unique J



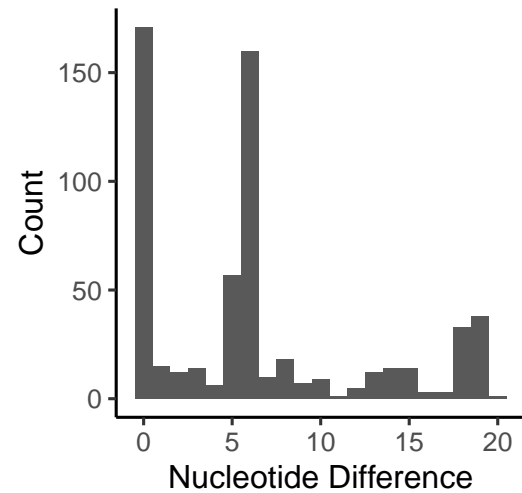
IGHV3-11*06

439 sequences assigned
169 (38.5%) exact matches, in which:
104 unique CDR3
6 unique J



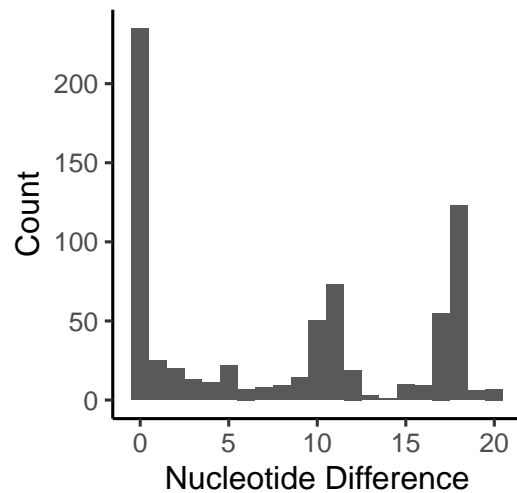
IGHV3-15*01_02

639 sequences assigned
171 (26.8%) exact matches, in which:
103 unique CDR3
6 unique J



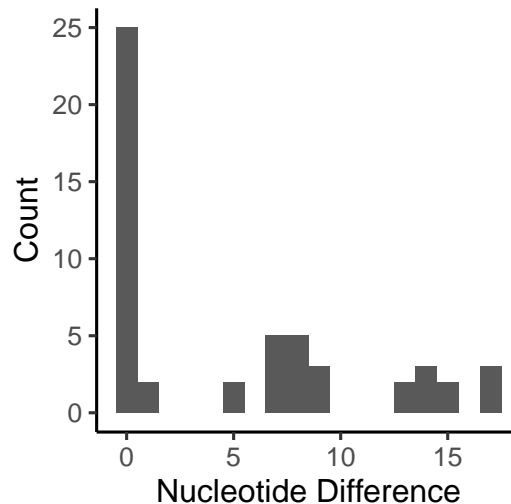
IGHV3-9*01

733 sequences assigned
235 (32.1%) exact matches, in which:
135 unique CDR3
6 unique J



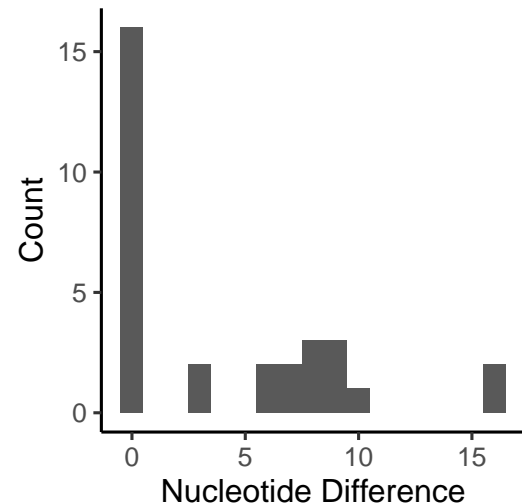
IGHV3-13*01

56 sequences assigned
25 (44.6%) exact matches, in which:
14 unique CDR3
5 unique J



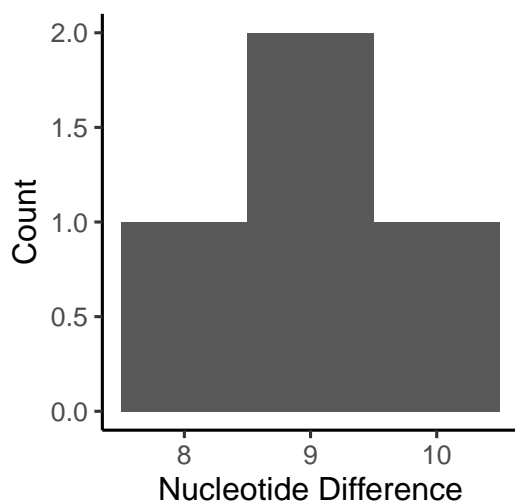
IGHV3-20*01_02

34 sequences assigned
16 (47.1%) exact matches, in which:
9 unique CDR3
4 unique J



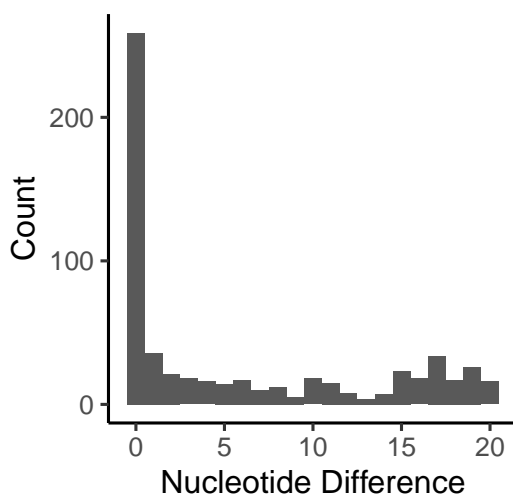
IGHV3-20*03_04

4 sequences assigned
No exact matches.



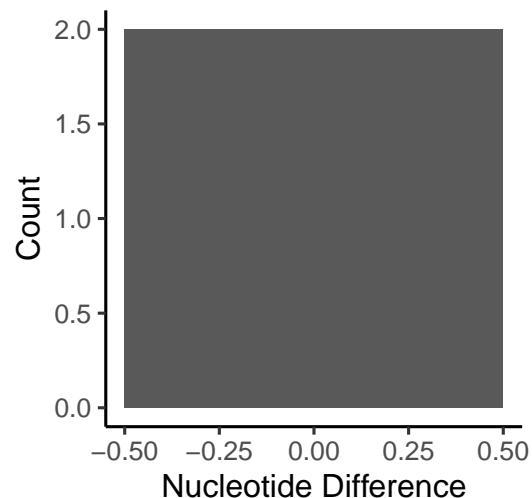
IGHV3-30-3*01

756 sequences assigned
259 (34.3%) exact matches, in which:
160 unique CDR3
6 unique J



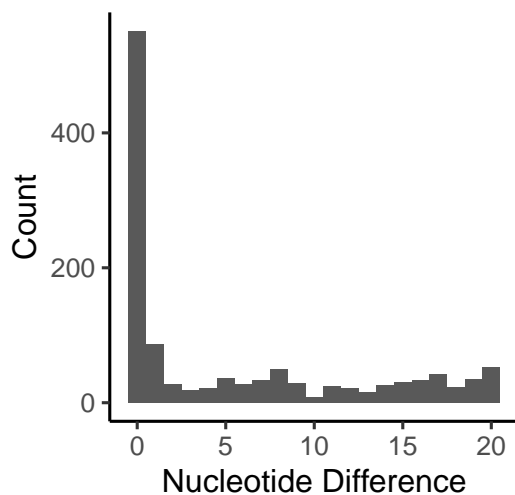
IGHV3-35*01

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



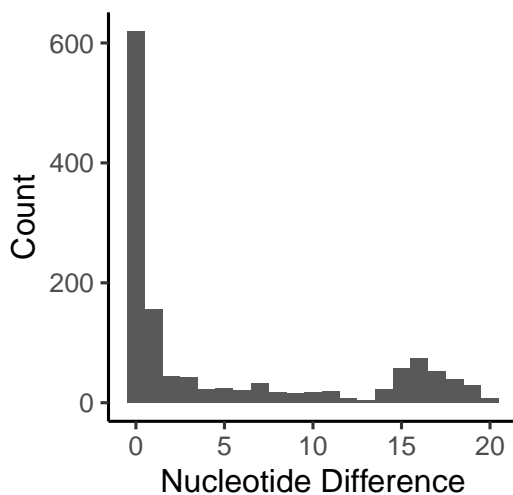
IGHV3-21*01_02

1474 sequences assigned
551 (37.4%) exact matches, in which:
337 unique CDR3
6 unique J



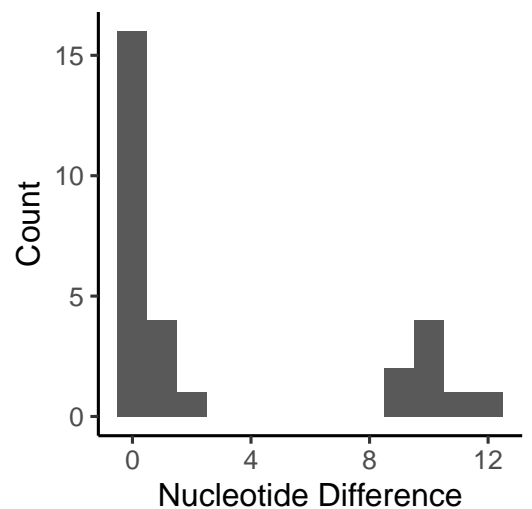
IGHV3-33*01

1414 sequences assigned
620 (43.8%) exact matches, in which:
379 unique CDR3
6 unique J



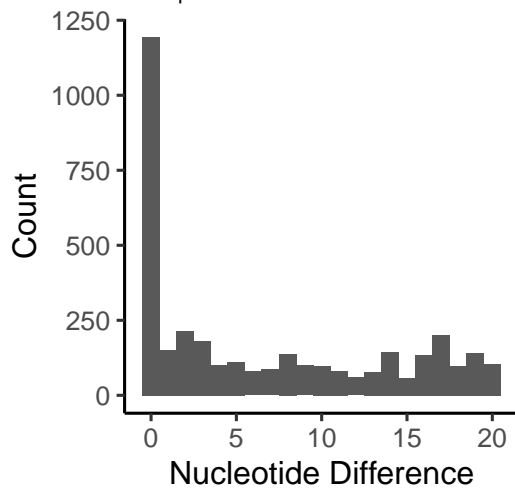
IGHV3-43*01

240 sequences assigned
16 (6.7%) exact matches, in which:
9 unique CDR3
3 unique J



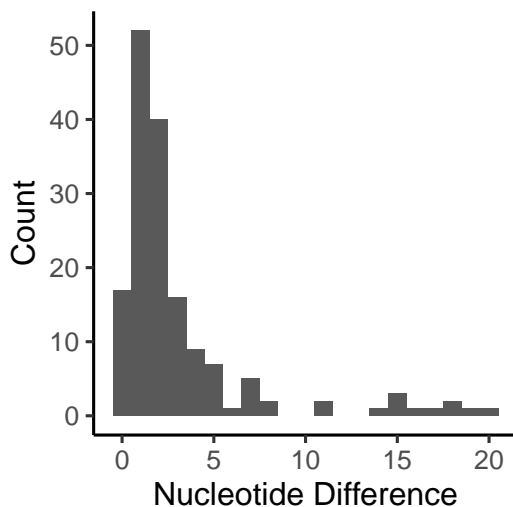
IGHV3-23*01_04

4716 sequences assigned
1194 (25.3%) exact matches, in which:
707 unique CDR3
6 unique J



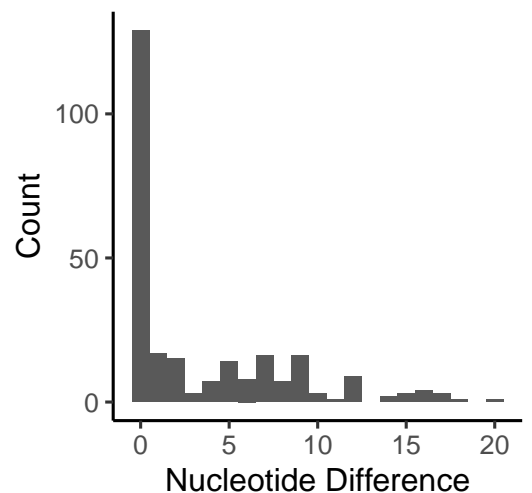
IGHV3-33*06

168 sequences assigned
17 (10.1%) exact matches, in which:
16 unique CDR3
3 unique J



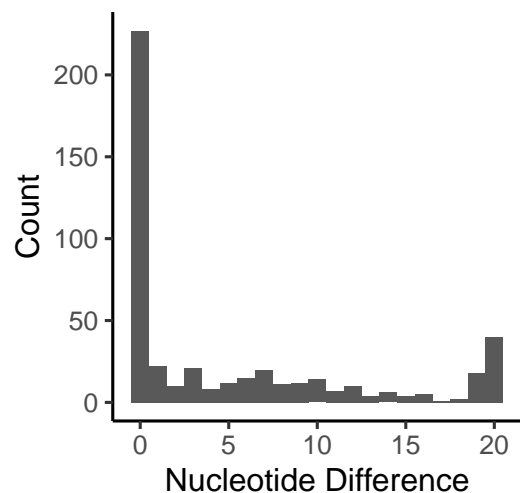
IGHV3-48*02

518 sequences assigned
129 (24.9%) exact matches, in which:
75 unique CDR3
5 unique J



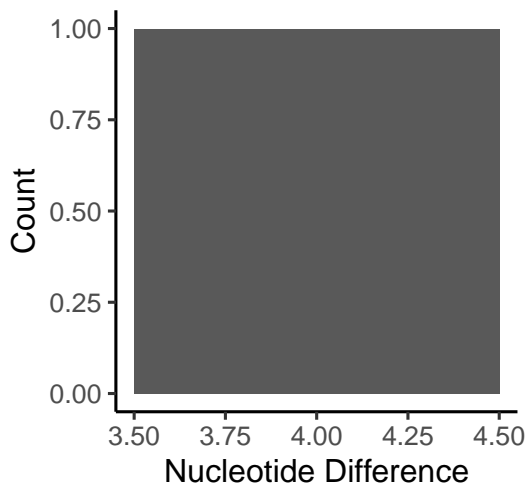
IGHV3-48*03

568 sequences assigned
227 (40%) exact matches, in which:
138 unique CDR3
6 unique J



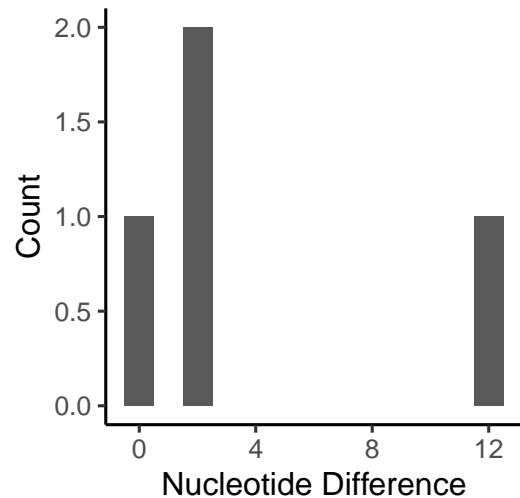
IGHV3-52*01_03

1 sequences assigned
No exact matches.



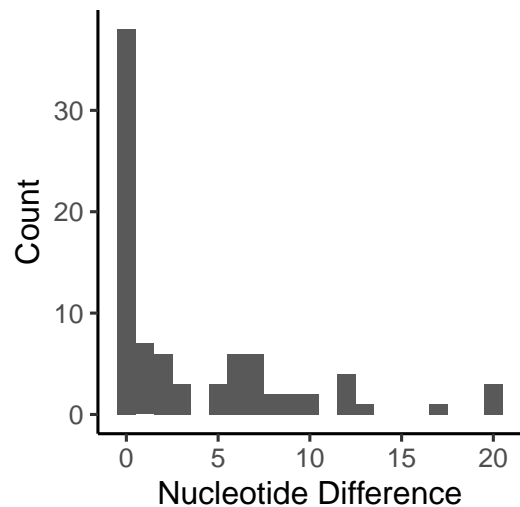
IGHV3-64*02_07

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



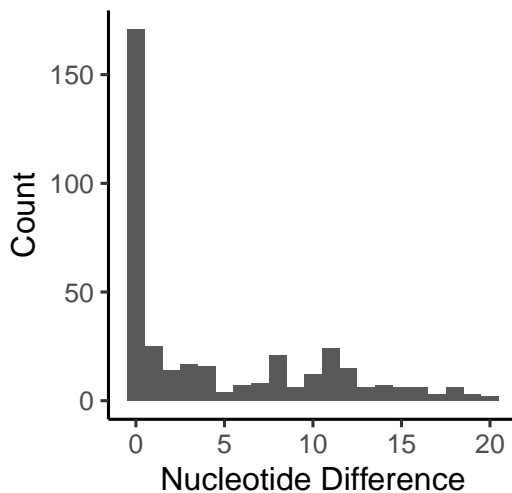
IGHV3-49*04

112 sequences assigned
38 (33.9%) exact matches, in which:
21 unique CDR3
5 unique J



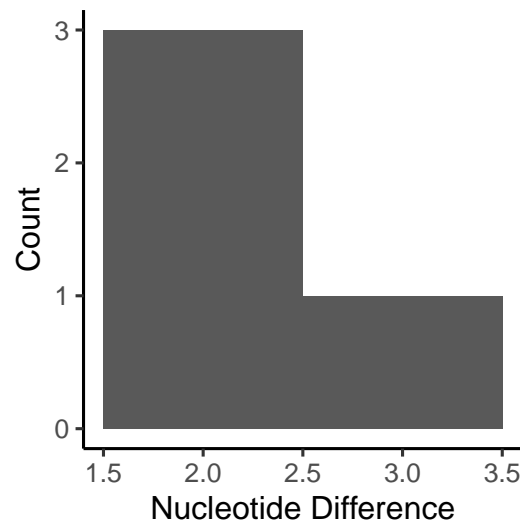
IGHV3-53*01_02

455 sequences assigned
171 (37.6%) exact matches, in which:
99 unique CDR3
6 unique J



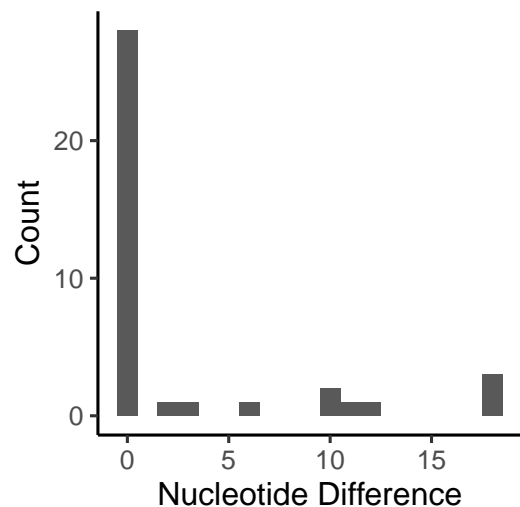
IGHV3-66*03

4 sequences assigned
No exact matches.



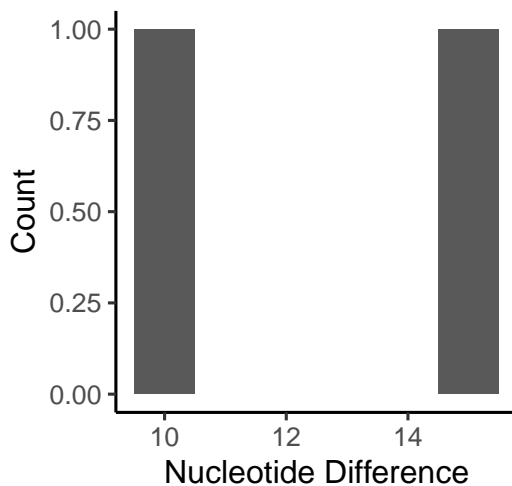
IGHV3-49*03_05

41 sequences assigned
28 (68.3%) exact matches, in which:
17 unique CDR3
5 unique J



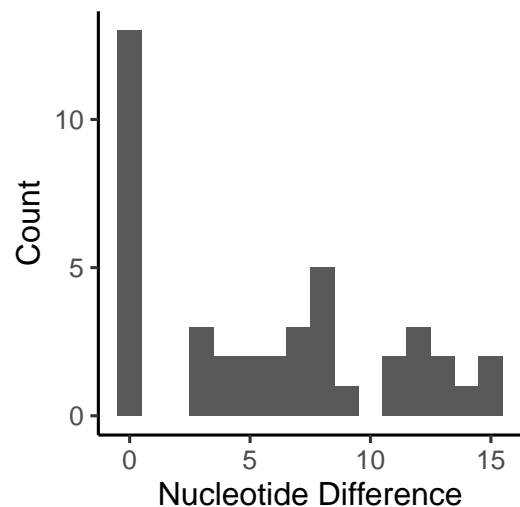
IGHV3-64*04

3 sequences assigned
No exact matches.



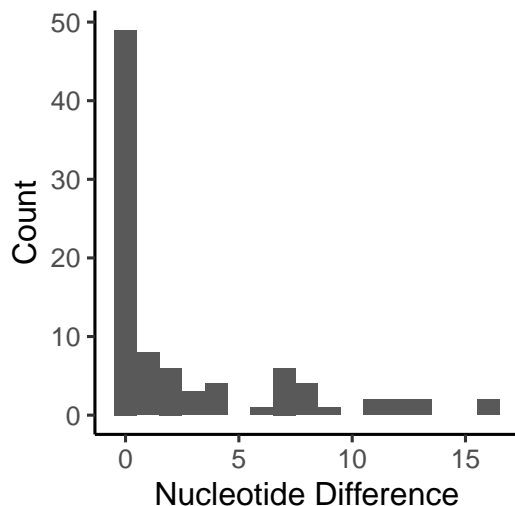
IGHV3-72*01

41 sequences assigned
13 (31.7%) exact matches, in which:
7 unique CDR3
4 unique J



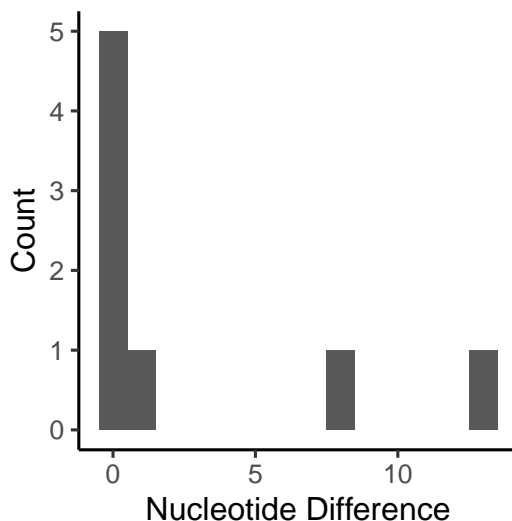
IGHV3-73*01_02

94 sequences assigned
49 (52.1%) exact matches, in which:
31 unique CDR3
5 unique J



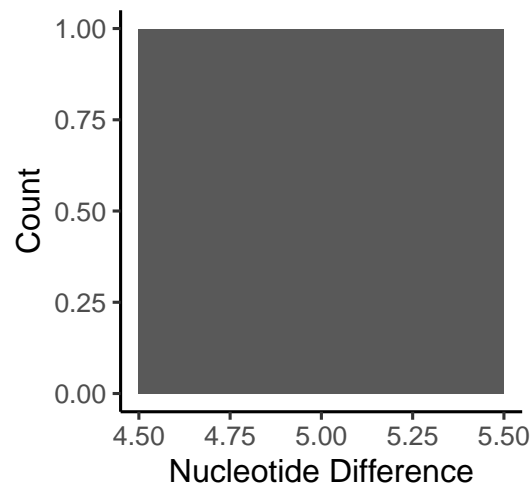
IGHV3-43D*04

8 sequences assigned
5 (62.5%) exact matches, in which:
3 unique CDR3
2 unique J



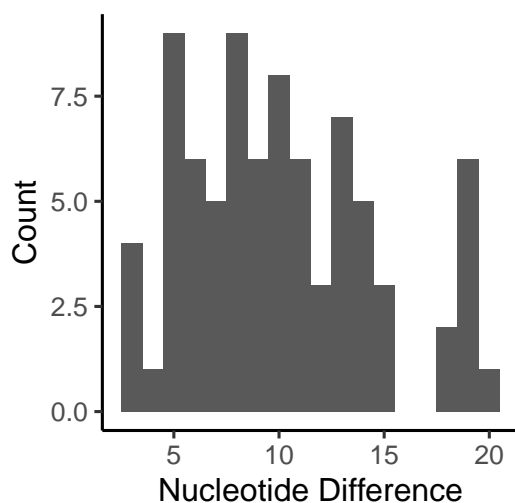
IGHV4-28*01_07

1 sequences assigned
No exact matches.



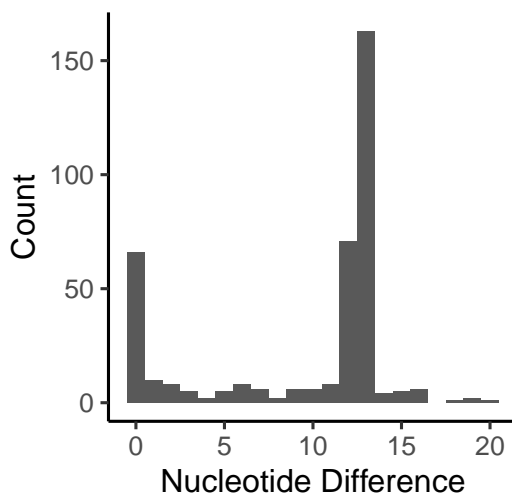
IGHV3-74*03

86 sequences assigned
No exact matches.



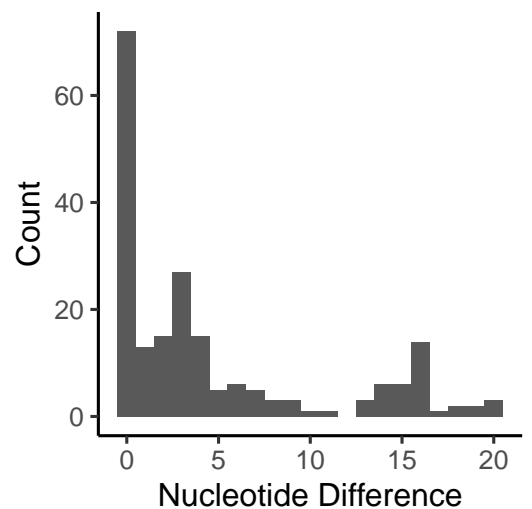
IGHV3-64D*06

425 sequences assigned
66 (15.5%) exact matches, in which:
33 unique CDR3
4 unique J



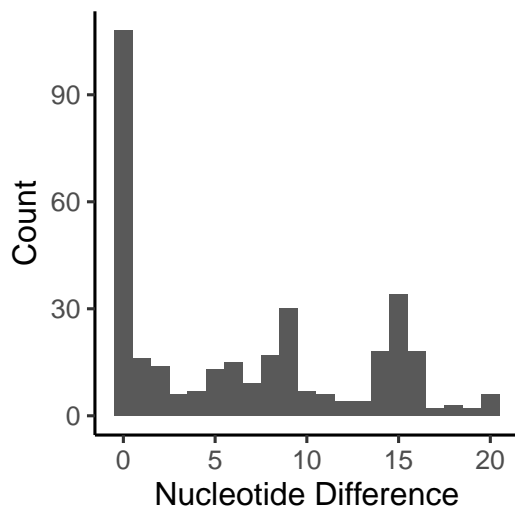
IGHV4-30-4*01

511 sequences assigned
72 (14.1%) exact matches, in which:
66 unique CDR3
6 unique J



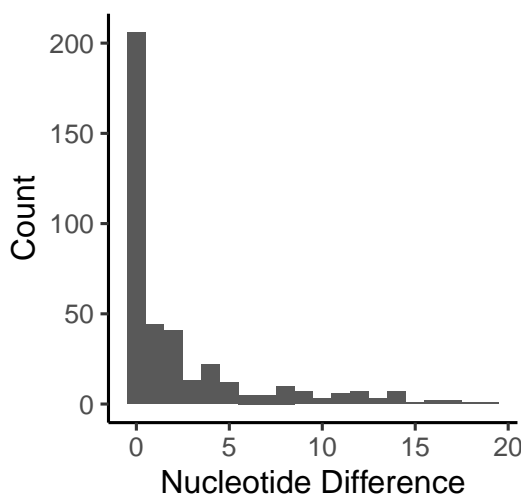
IGHV3-74*01_02

352 sequences assigned
108 (30.7%) exact matches, in which:
59 unique CDR3
5 unique J



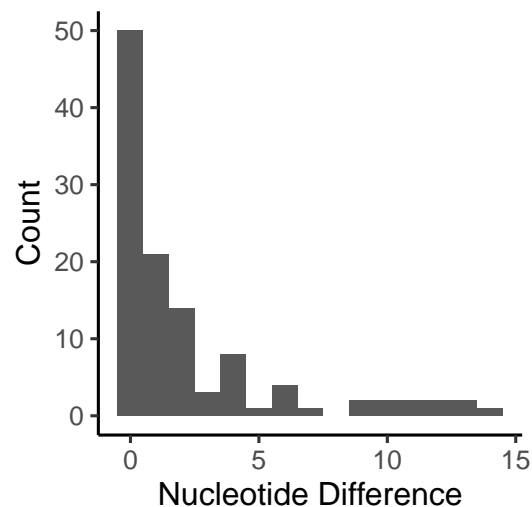
IGHV4-4*02_03

410 sequences assigned
206 (50.2%) exact matches, in which:
182 unique CDR3
6 unique J



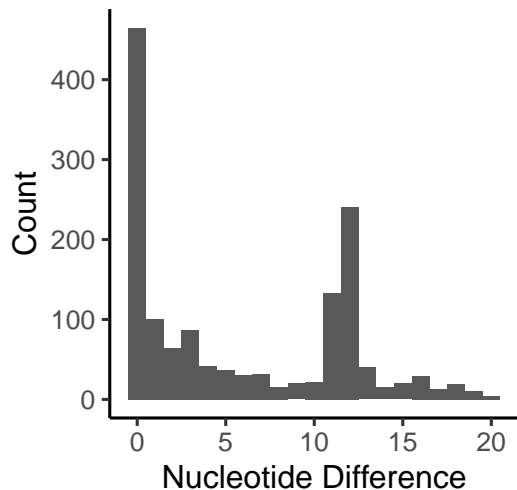
IGHV4-30-2*01

117 sequences assigned
50 (42.7%) exact matches, in which:
36 unique CDR3
5 unique J



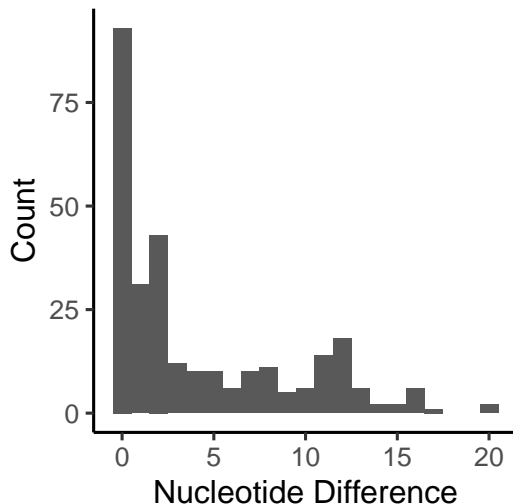
IGHV4-31*02

2080 sequences assigned
465 (22.4%) exact matches, in which:
448 unique CDR3
6 unique J



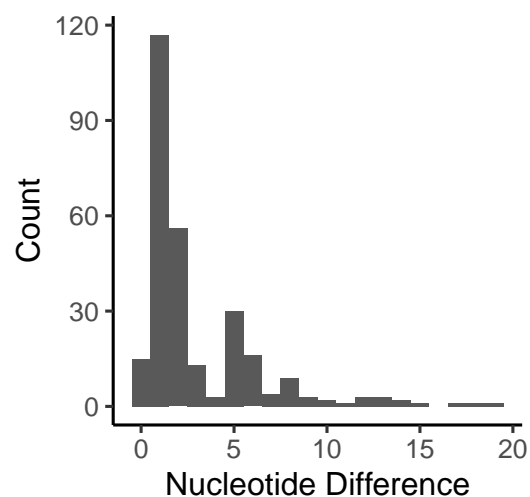
IGHV4-38-2*02_A70G

292 sequences assigned
93 (31.8%) exact matches, in which:
77 unique CDR3
6 unique J



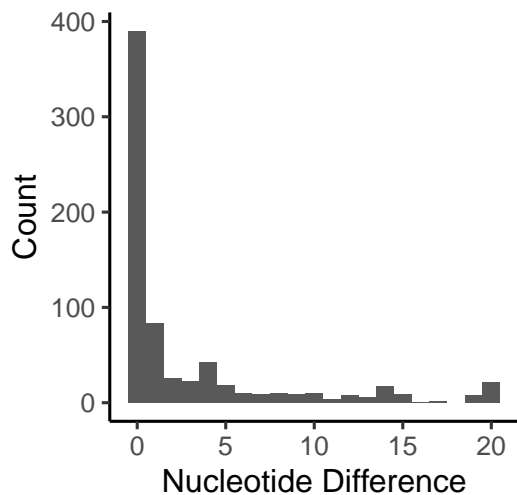
IGHV4-59*12

288 sequences assigned
15 (5.2%) exact matches, in which:
15 unique CDR3
4 unique J



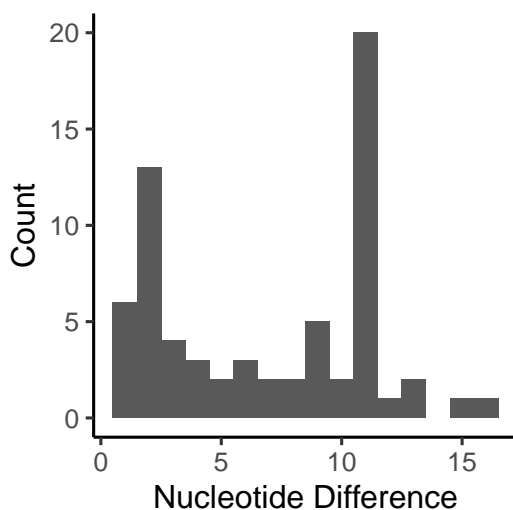
IGHV4-34*01_02

896 sequences assigned
390 (43.5%) exact matches, in which:
311 unique CDR3
6 unique J



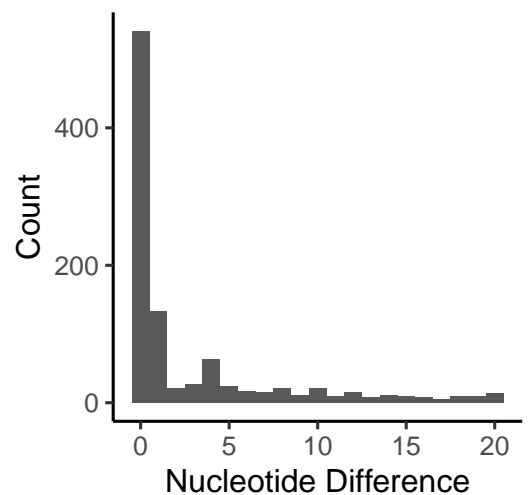
IGHV4-39*07

93 sequences assigned
No exact matches.



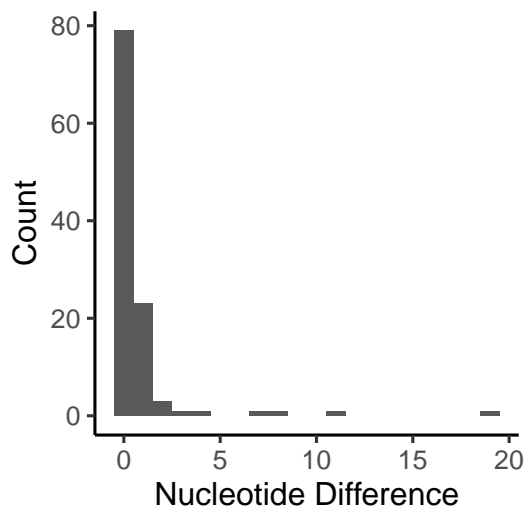
IGHV4-59*02_G88A

1110 sequences assigned
541 (48.7%) exact matches, in which:
493 unique CDR3
6 unique J



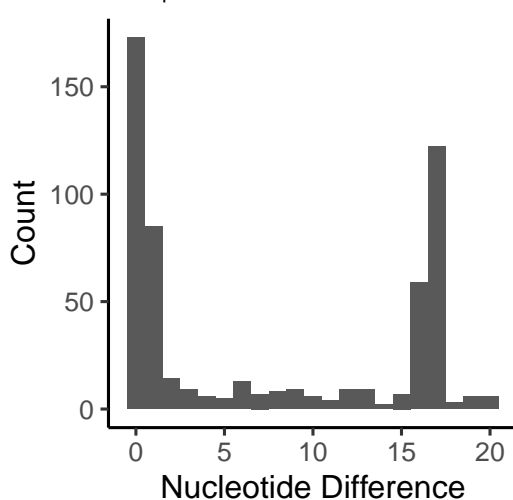
IGHV4-34*01_02_C288T_

111 sequences assigned
79 (71.2%) exact matches, in which:
79 unique CDR3
6 unique J



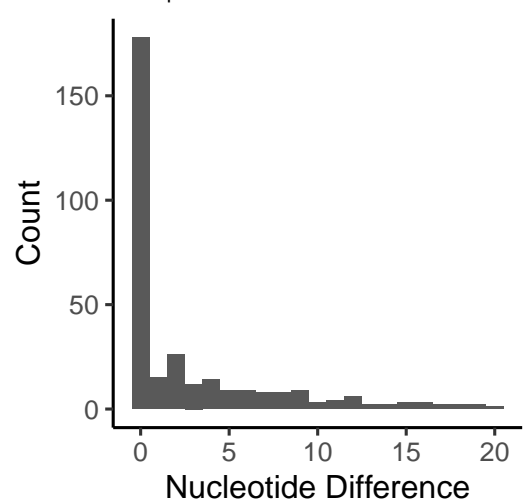
IGHV4-39*02_C258G

580 sequences assigned
173 (29.8%) exact matches, in which:
142 unique CDR3
6 unique J



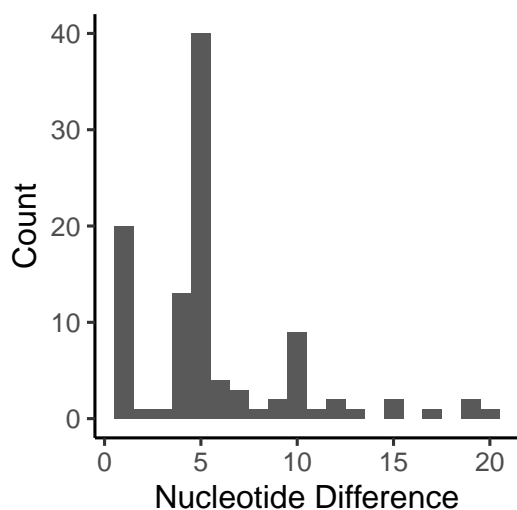
IGHV4-61*01

379 sequences assigned
178 (47%) exact matches, in which:
176 unique CDR3
6 unique J



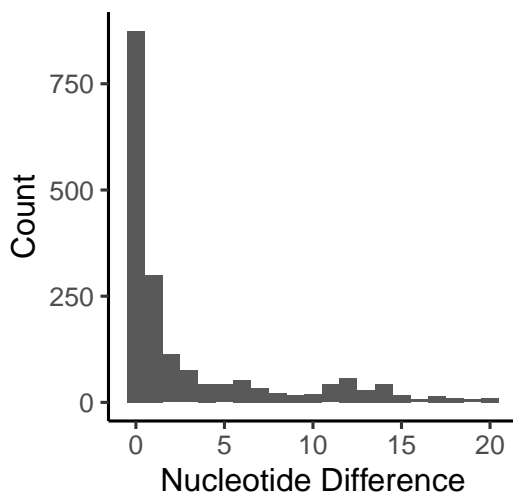
IGHV4-61*08

107 sequences assigned
No exact matches.



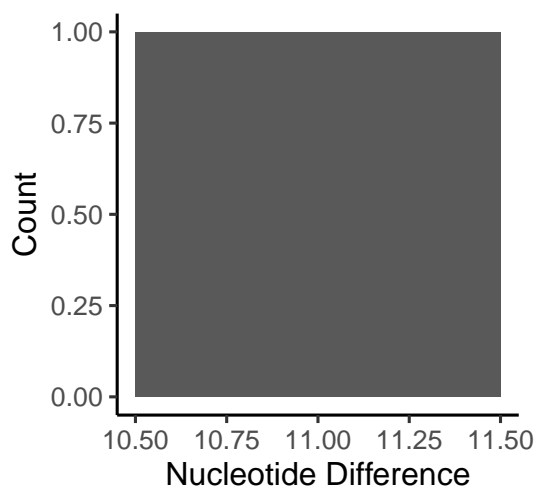
IGHV5-51*07_A128G

1886 sequences assigned
875 (46.4%) exact matches, in which:
543 unique CDR3
6 unique J



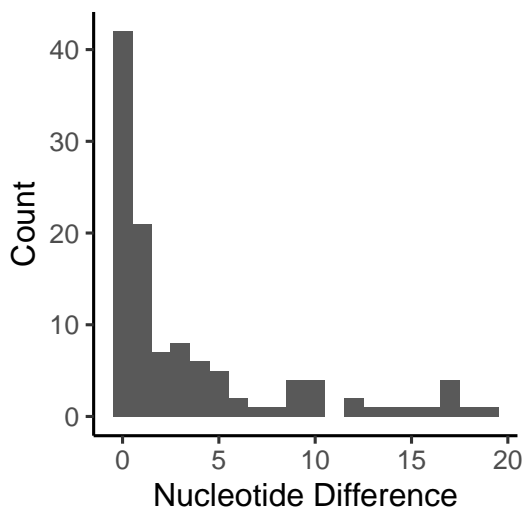
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



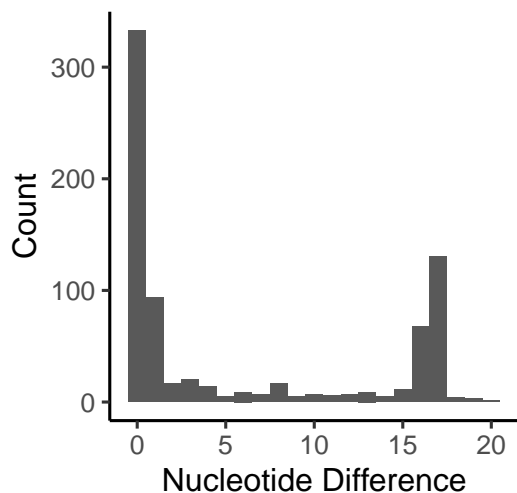
IGHV6-1*01_02

118 sequences assigned
42 (35.6%) exact matches, in which:
42 unique CDR3
4 unique J



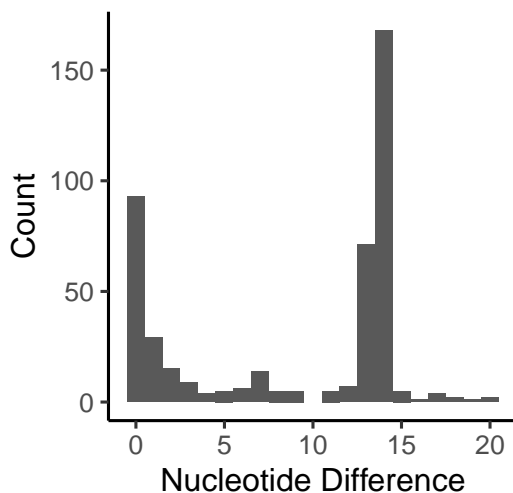
IGHV5-10-1*01_03

1008 sequences assigned
333 (33%) exact matches, in which:
238 unique CDR3
5 unique J



IGHV7-4-1*02

452 sequences assigned
93 (20.6%) exact matches, in which:
89 unique CDR3
6 unique J





Warning – no inferred sequences found.