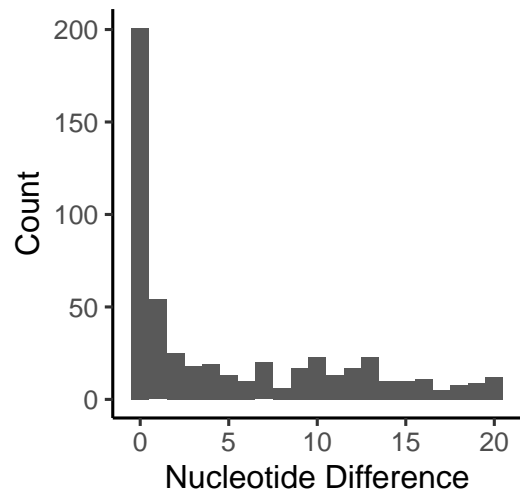


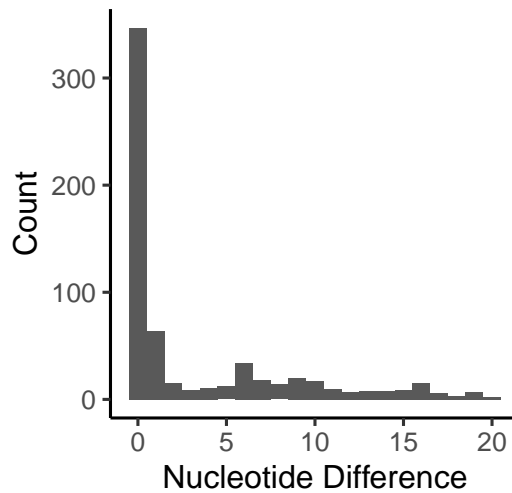
IGHV1-2*02

585 sequences assigned
201 (34.4%) exact matches, in which:
195 unique CDR3
6 unique J



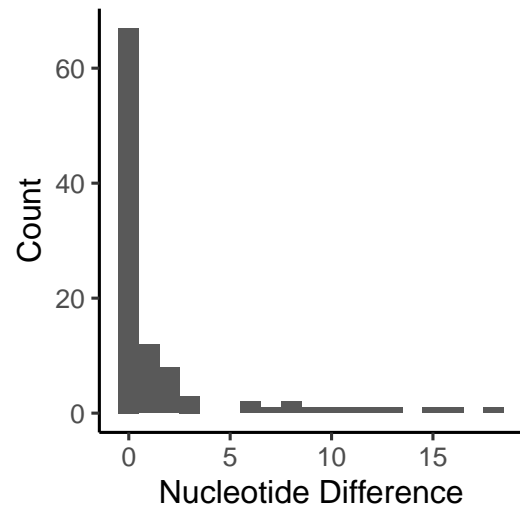
IGHV1-18*01

683 sequences assigned
347 (50.8%) exact matches, in which:
331 unique CDR3
6 unique J



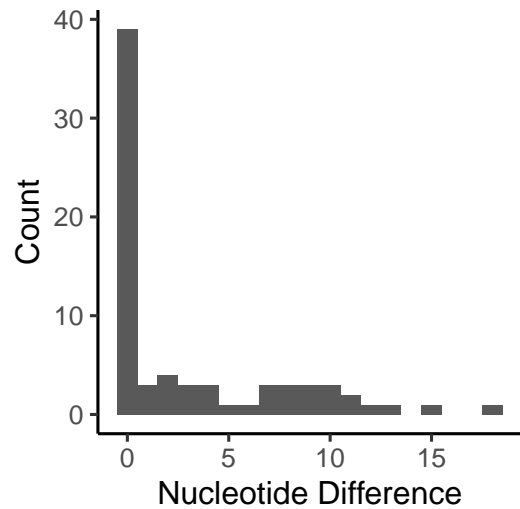
IGHV1-46*04

106 sequences assigned
67 (63.2%) exact matches, in which:
62 unique CDR3
5 unique J



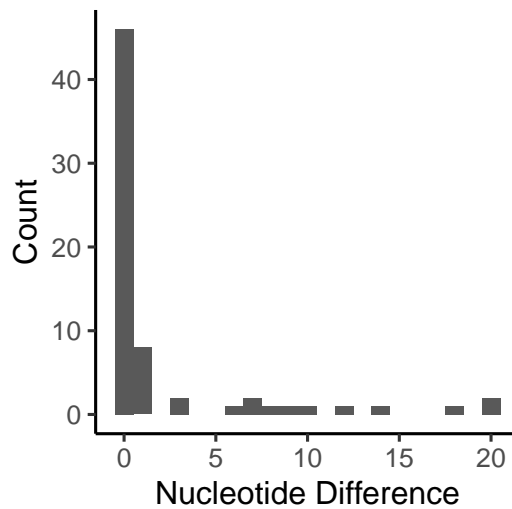
IGHV1-3*01_05

76 sequences assigned
39 (51.3%) exact matches, in which:
39 unique CDR3
4 unique J



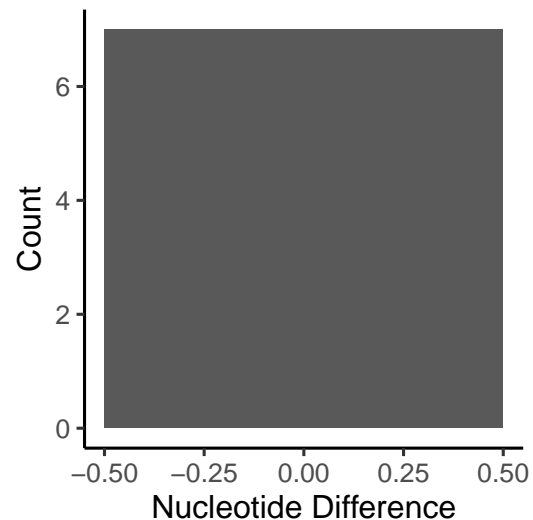
IGHV1-24*01

73 sequences assigned
46 (63%) exact matches, in which:
45 unique CDR3
4 unique J



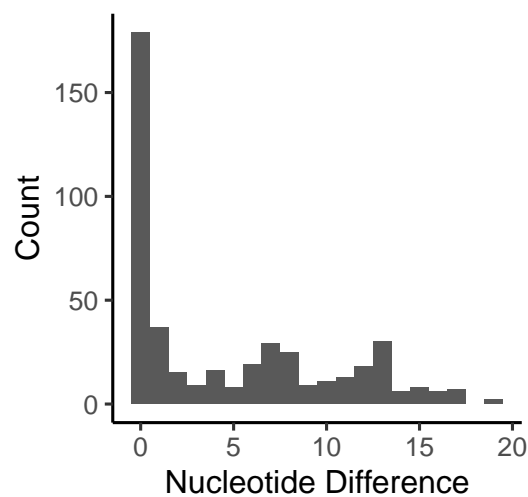
IGHV1-58*02

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
3 unique J



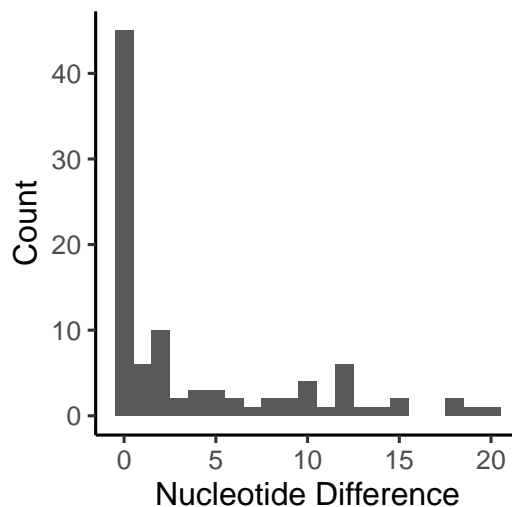
IGHV1-8*01

451 sequences assigned
179 (39.7%) exact matches, in which:
173 unique CDR3
6 unique J



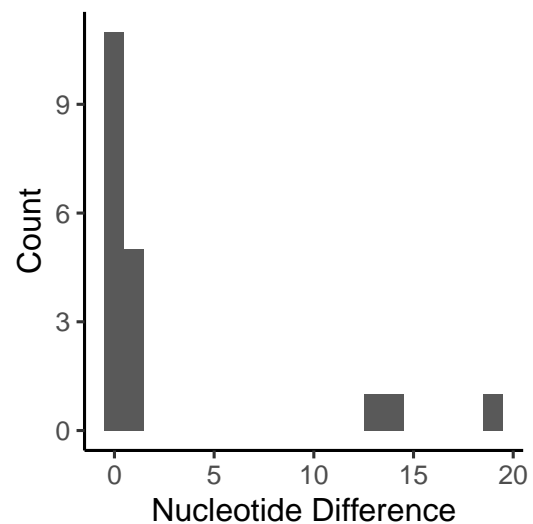
IGHV1-46*01

98 sequences assigned
45 (45.9%) exact matches, in which:
45 unique CDR3
5 unique J



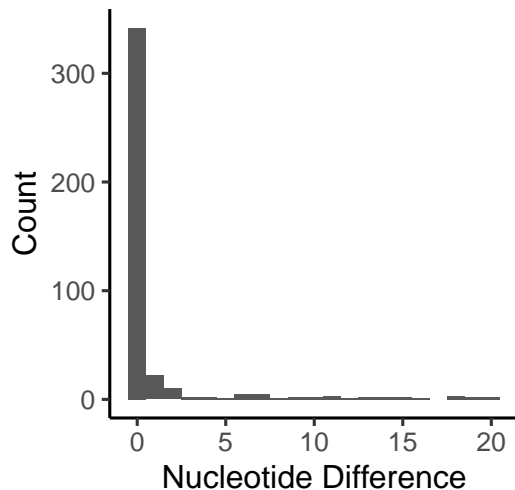
IGHV1-58*01_03

19 sequences assigned
11 (57.9%) exact matches, in which:
10 unique CDR3
3 unique J



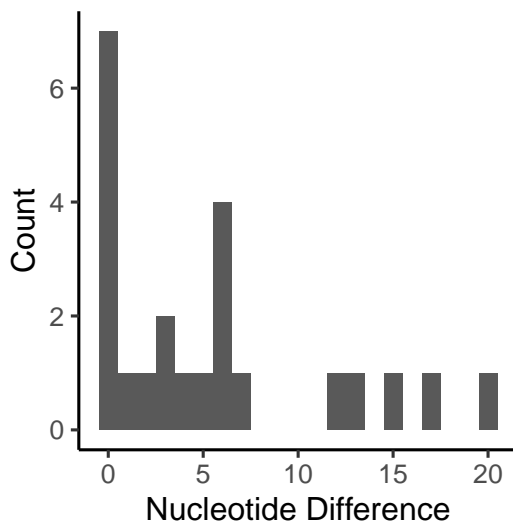
IGHV1-69*01_12_13

424 sequences assigned
342 (80.7%) exact matches, in which:
339 unique CDR3
6 unique J



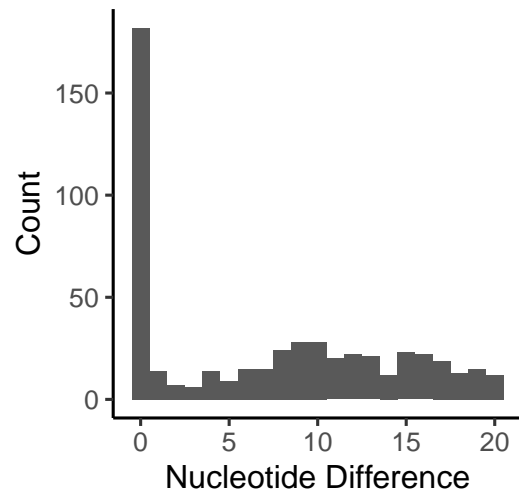
IGHV2-5*02

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



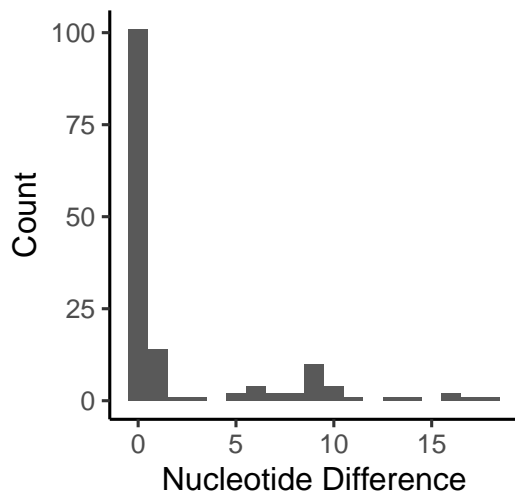
IGHV3-7*01

658 sequences assigned
182 (27.7%) exact matches, in which:
107 unique CDR3
6 unique J



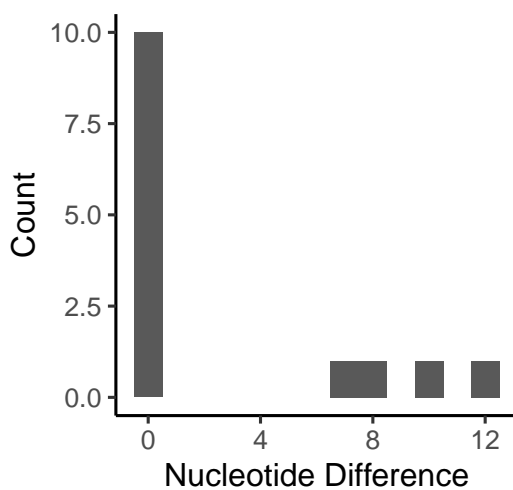
IGHV1-69*06_14

154 sequences assigned
101 (65.6%) exact matches, in which:
98 unique CDR3
6 unique J



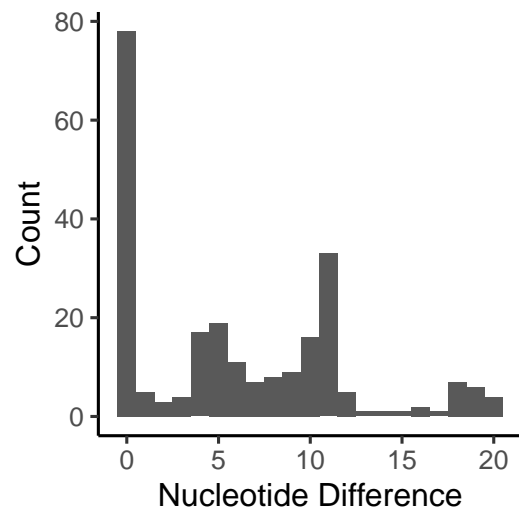
IGHV2-26*01

14 sequences assigned
10 (71.4%) exact matches, in which:
10 unique CDR3
5 unique J



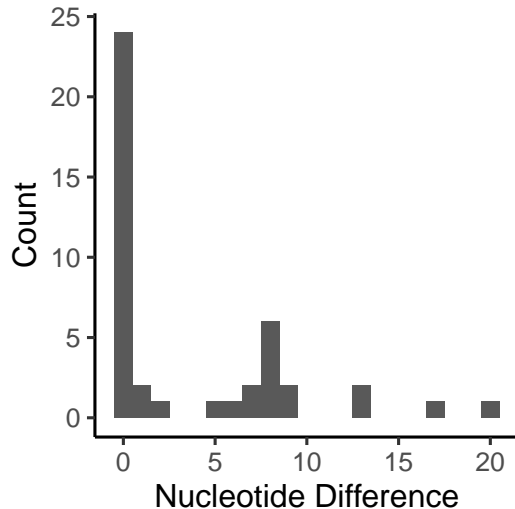
IGHV3-7*03

250 sequences assigned
78 (31.2%) exact matches, in which:
47 unique CDR3
5 unique J



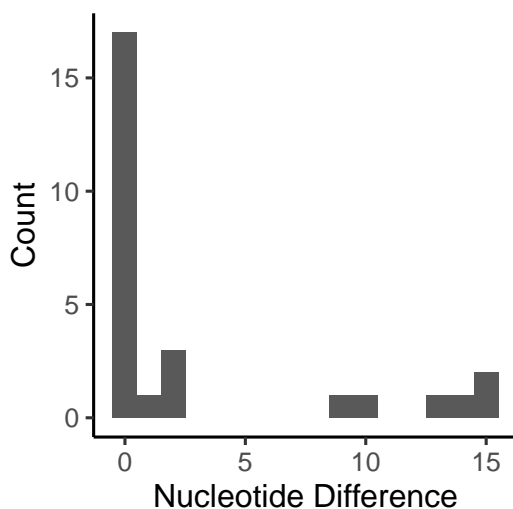
IGHV2-5*01

48 sequences assigned
24 (50%) exact matches, in which:
23 unique CDR3
3 unique J



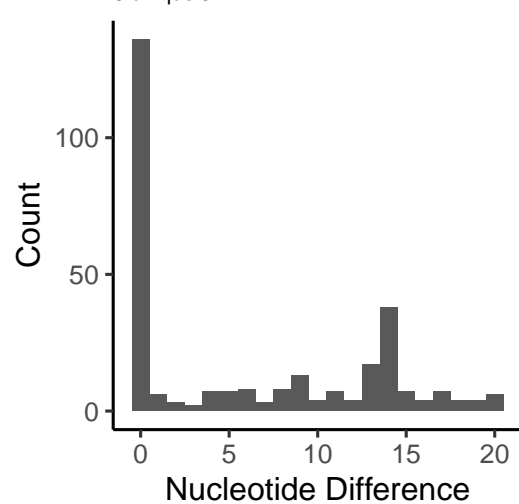
IGHV2-70*01

28 sequences assigned
17 (60.7%) exact matches, in which:
17 unique CDR3
5 unique J



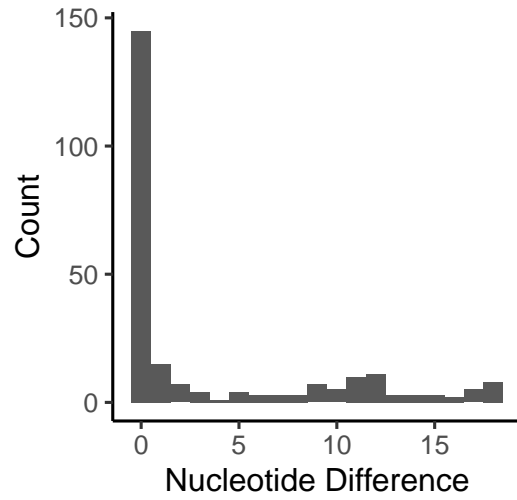
IGHV3-9*01

337 sequences assigned
136 (40.4%) exact matches, in which:
87 unique CDR3
6 unique J



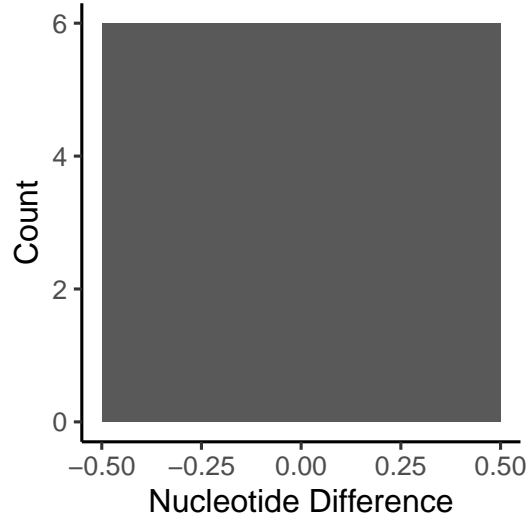
IGHV3-11*01

249 sequences assigned
145 (58.2%) exact matches, in which:
83 unique CDR3
5 unique J



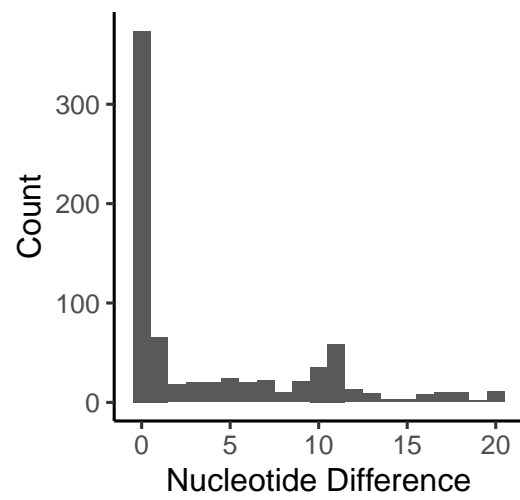
IGHV3-13*05

6 sequences assigned
6 (100%) exact matches, in which:
4 unique CDR3
4 unique J



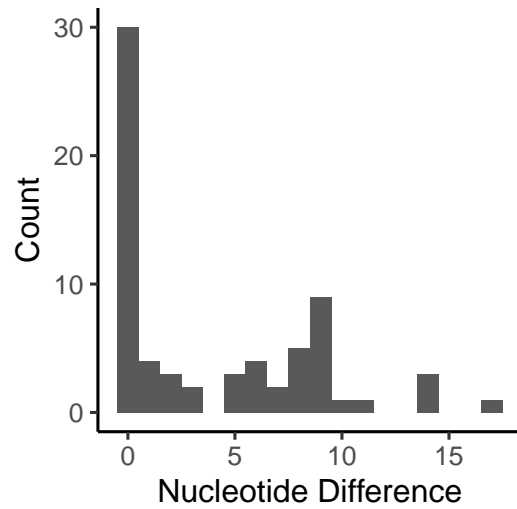
IGHV3-21*01_02

792 sequences assigned
374 (47.2%) exact matches, in which:
225 unique CDR3
6 unique J



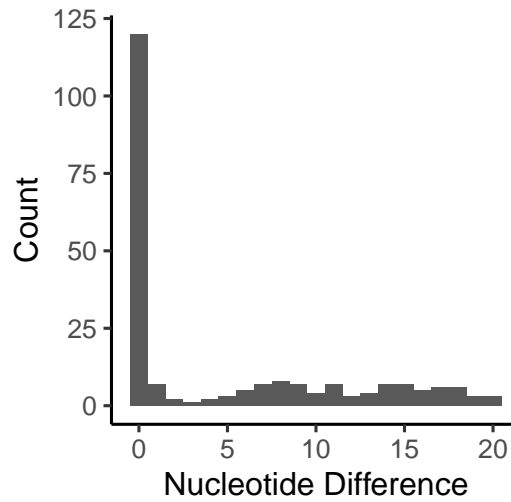
IGHV3-11*06

70 sequences assigned
30 (42.9%) exact matches, in which:
19 unique CDR3
4 unique J



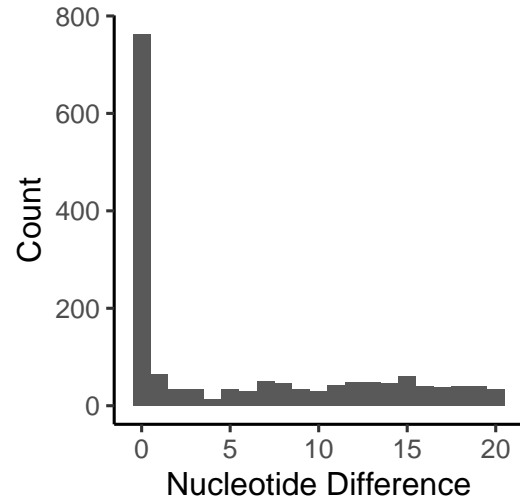
IGHV3-15*01_02

235 sequences assigned
120 (51.1%) exact matches, in which:
74 unique CDR3
4 unique J



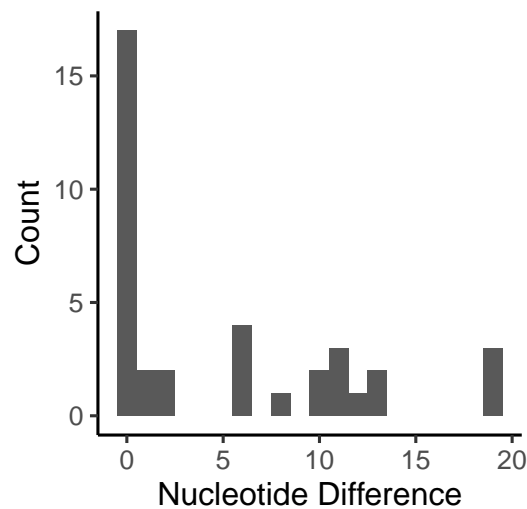
IGHV3-23*01_04

2083 sequences assigned
763 (36.6%) exact matches, in which:
454 unique CDR3
6 unique J



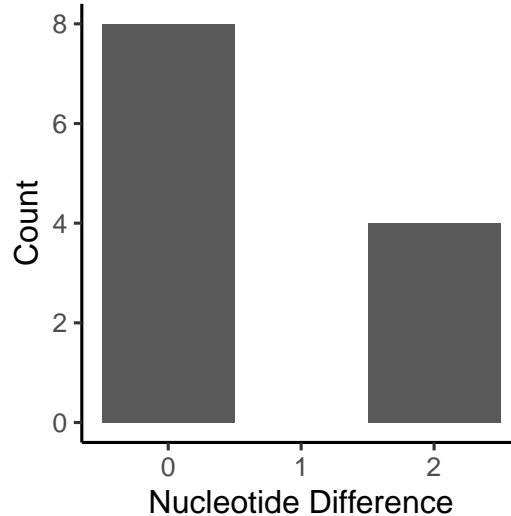
IGHV3-13*01

55 sequences assigned
17 (30.9%) exact matches, in which:
10 unique CDR3
5 unique J



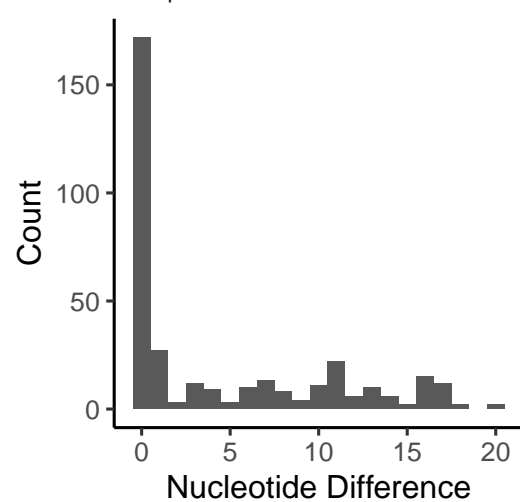
IGHV3-20*01_02

14 sequences assigned
8 (57.1%) exact matches, in which:
5 unique CDR3
2 unique J



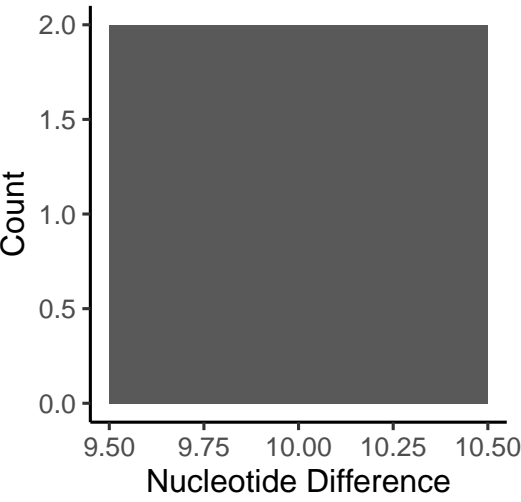
IGHV3-30*01

355 sequences assigned
172 (48.5%) exact matches, in which:
108 unique CDR3
5 unique J



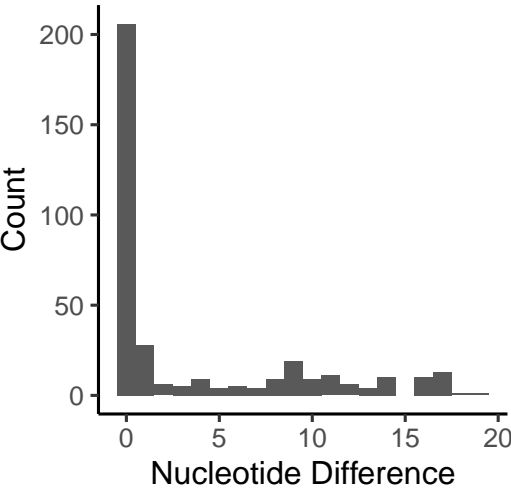
IGHV3-30-5*01

4 sequences assigned
No exact matches.



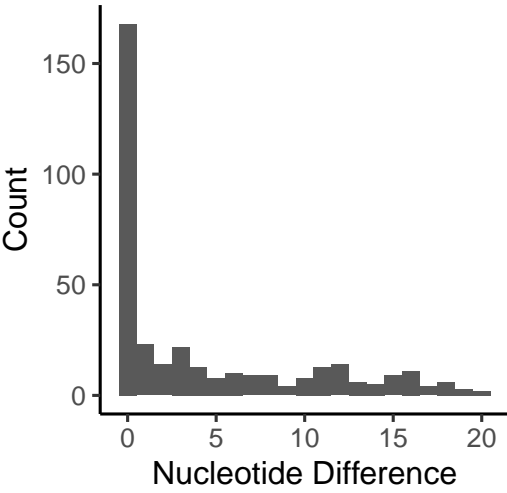
IGHV3-33*08

375 sequences assigned
206 (54.9%) exact matches, in which:
132 unique CDR3
6 unique J



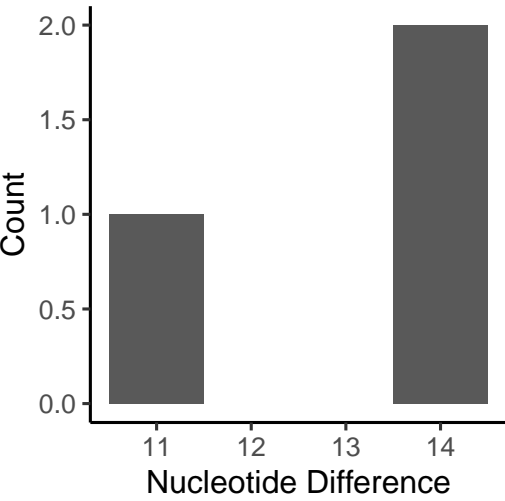
IGHV3-48*03

383 sequences assigned
168 (43.9%) exact matches, in which:
111 unique CDR3
5 unique J



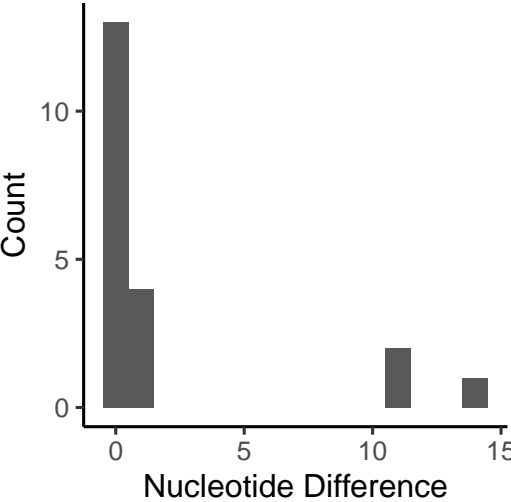
IGHV3-30-3*03

4 sequences assigned
No exact matches.



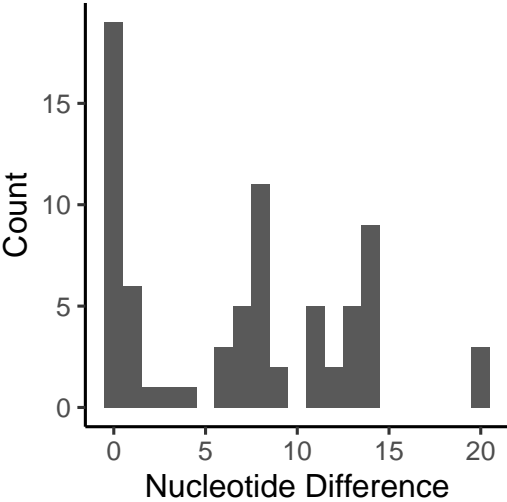
IGHV3-43*01

22 sequences assigned
13 (59.1%) exact matches, in which:
7 unique CDR3
2 unique J



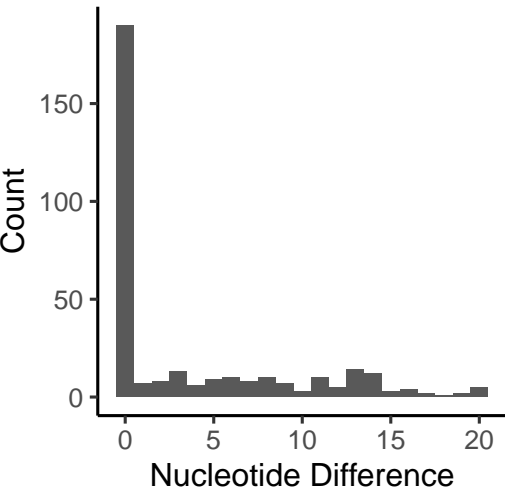
IGHV3-49*04

83 sequences assigned
19 (22.9%) exact matches, in which:
14 unique CDR3
6 unique J



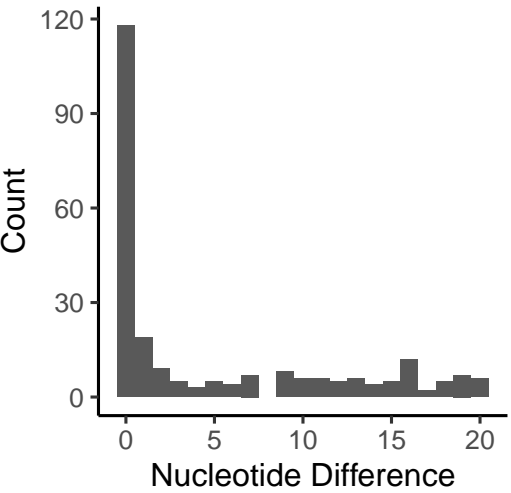
IGHV3-33*01

347 sequences assigned
190 (54.8%) exact matches, in which:
118 unique CDR3
6 unique J



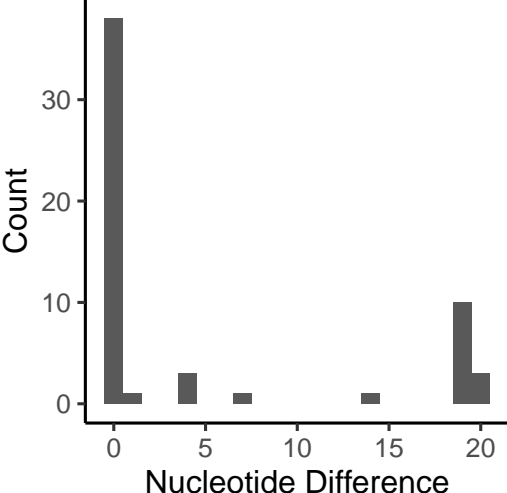
IGHV3-48*01

283 sequences assigned
118 (41.7%) exact matches, in which:
67 unique CDR3
5 unique J



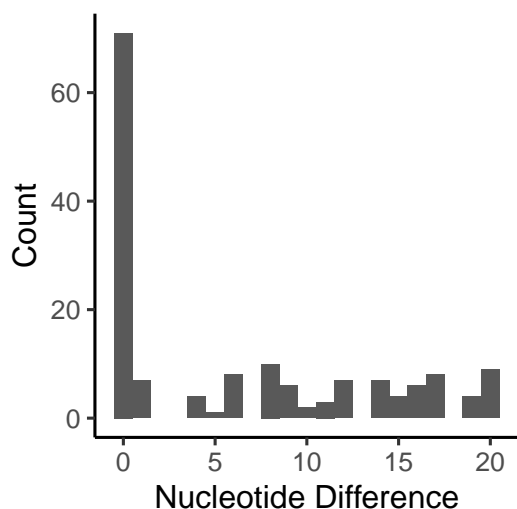
IGHV3-49*03_05

83 sequences assigned
38 (45.8%) exact matches, in which:
24 unique CDR3
4 unique J



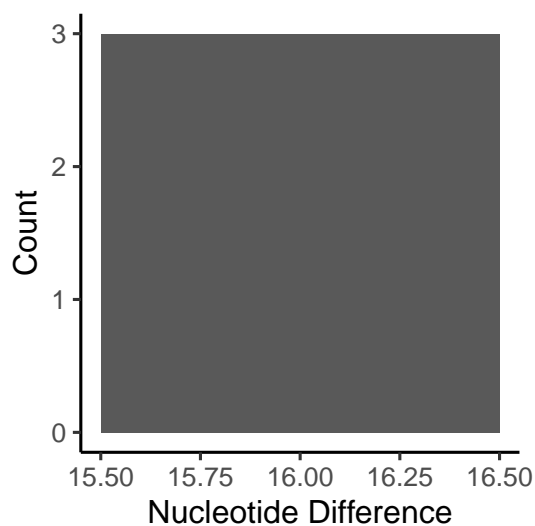
IGHV3-53*01_02

174 sequences assigned
71 (40.8%) exact matches, in which:
44 unique CDR3
5 unique J



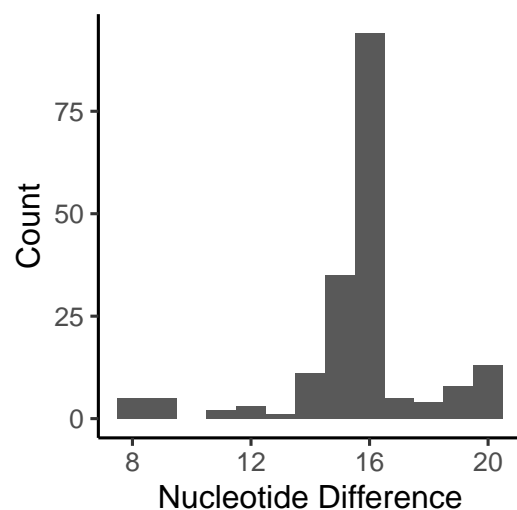
IGHV3-69-1*01

4 sequences assigned
No exact matches.



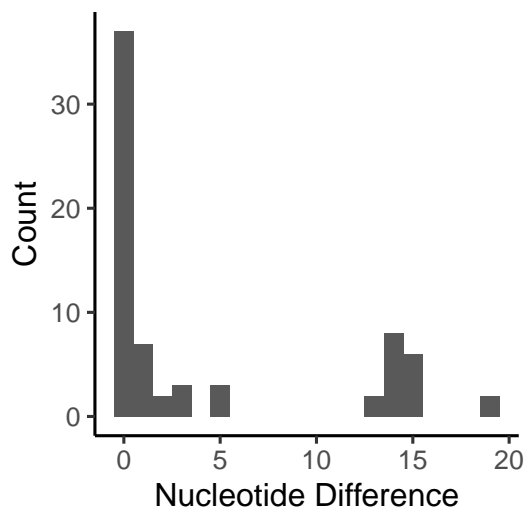
IGHV3-74*03

346 sequences assigned
No exact matches.



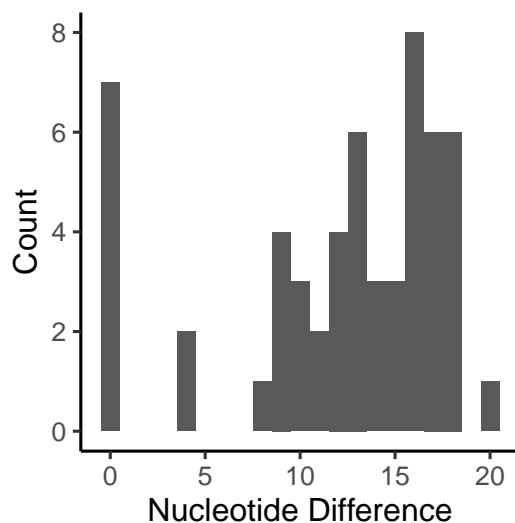
IGHV3-64*01

108 sequences assigned
37 (34.3%) exact matches, in which:
18 unique CDR3
4 unique J



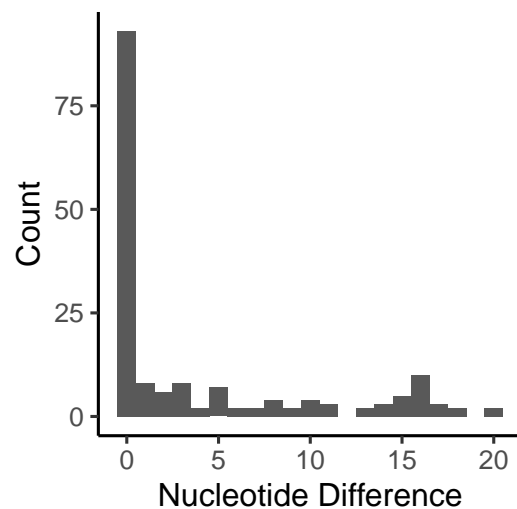
IGHV3-72*01

57 sequences assigned
7 (12.3%) exact matches, in which:
4 unique CDR3
3 unique J



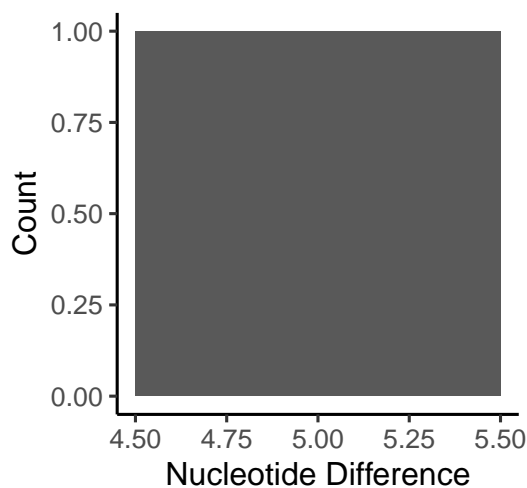
IGHV3-74*01_02

183 sequences assigned
93 (50.8%) exact matches, in which:
58 unique CDR3
5 unique J



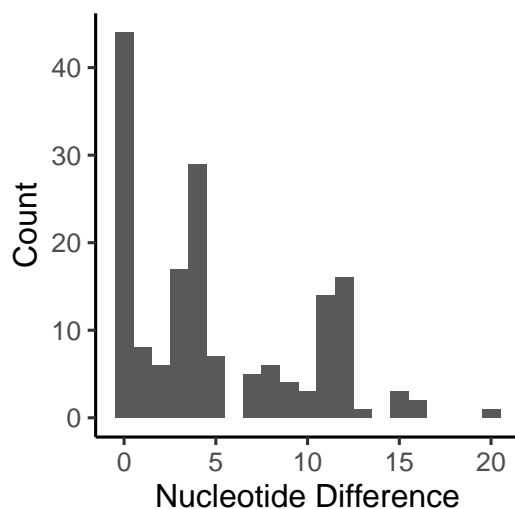
IGHV3-66*01

1 sequences assigned
No exact matches.



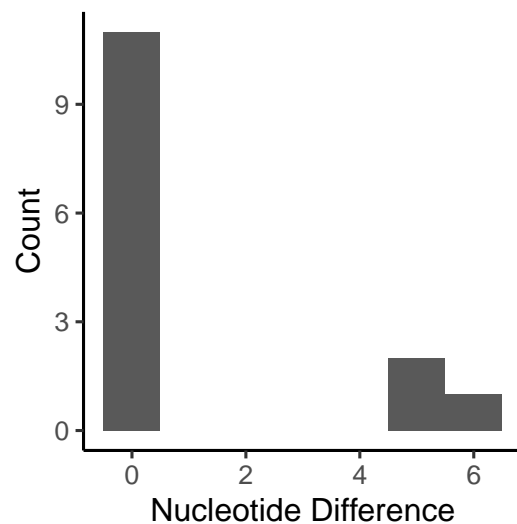
IGHV3-73*01_02

167 sequences assigned
44 (26.3%) exact matches, in which:
29 unique CDR3
4 unique J



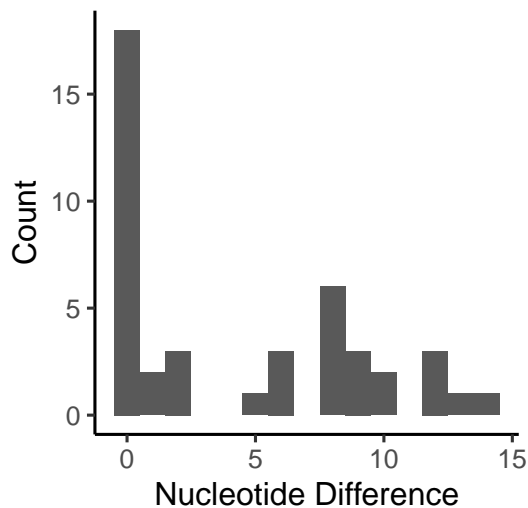
IGHV3-43D*04

14 sequences assigned
11 (78.6%) exact matches, in which:
6 unique CDR3
3 unique J



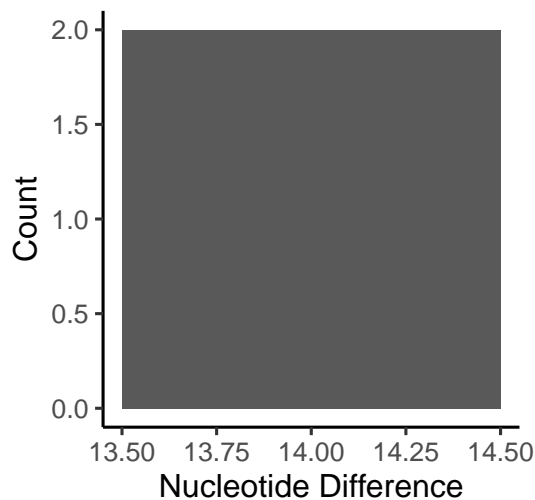
IGHV3-64D*06

45 sequences assigned
18 (40%) exact matches, in which:
8 unique CDR3
4 unique J



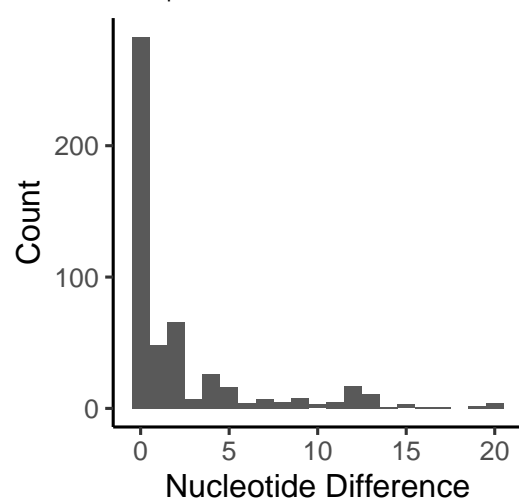
IGHV4-28*03

2 sequences assigned
No exact matches.



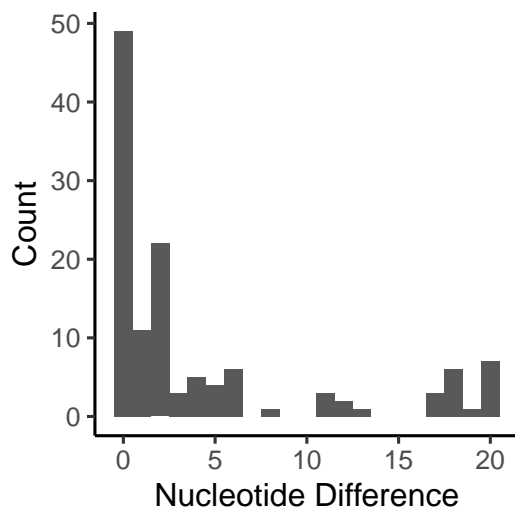
IGHV4-34*01_02

538 sequences assigned
283 (52.6%) exact matches, in which:
279 unique CDR3
6 unique J



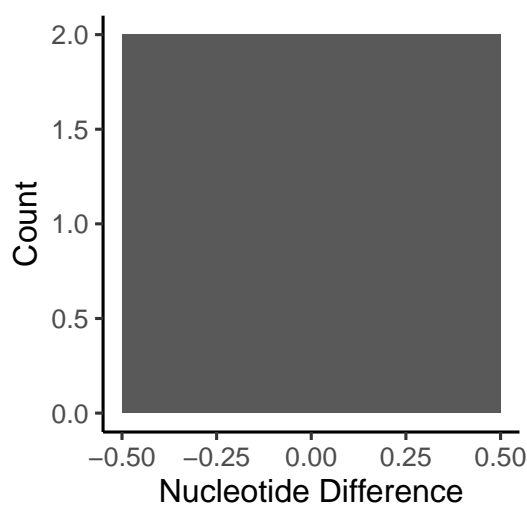
IGHV4-4*07

142 sequences assigned
49 (34.5%) exact matches, in which:
48 unique CDR3
5 unique J



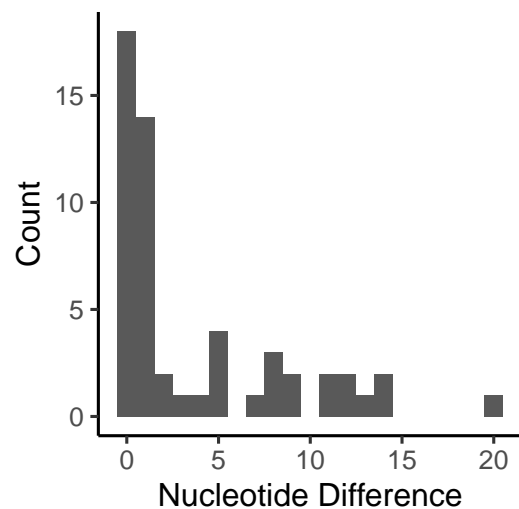
IGHV4-28*01_07

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



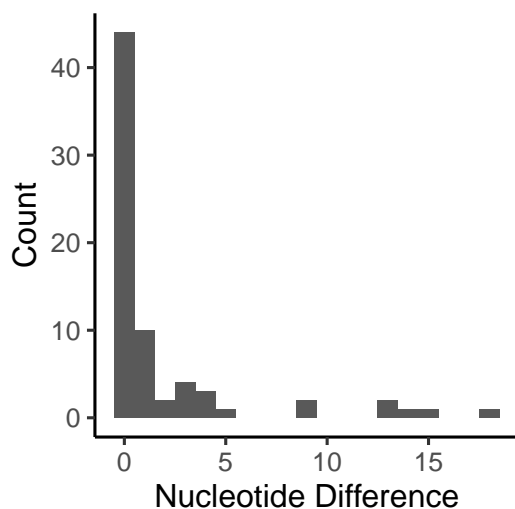
IGHV4-38-2*01

54 sequences assigned
18 (33.3%) exact matches, in which:
18 unique CDR3
4 unique J



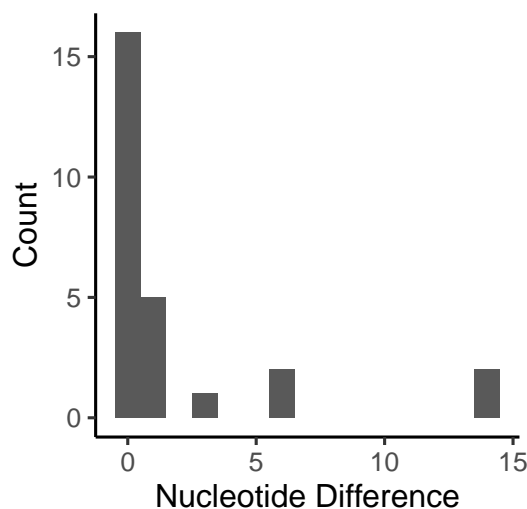
IGHV4-4*02_03

78 sequences assigned
44 (56.4%) exact matches, in which:
43 unique CDR3
6 unique J



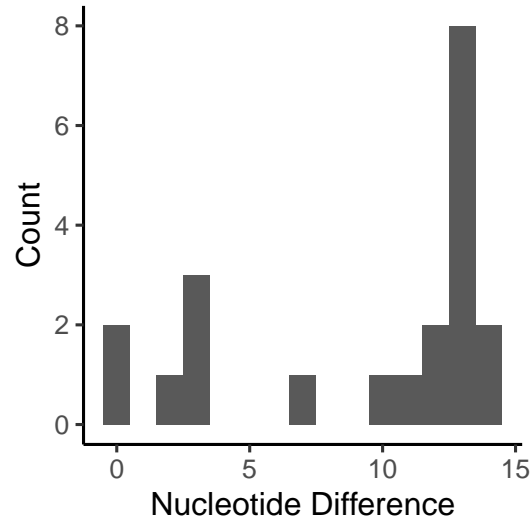
IGHV4-31*01

28 sequences assigned
16 (57.1%) exact matches, in which:
16 unique CDR3
4 unique J



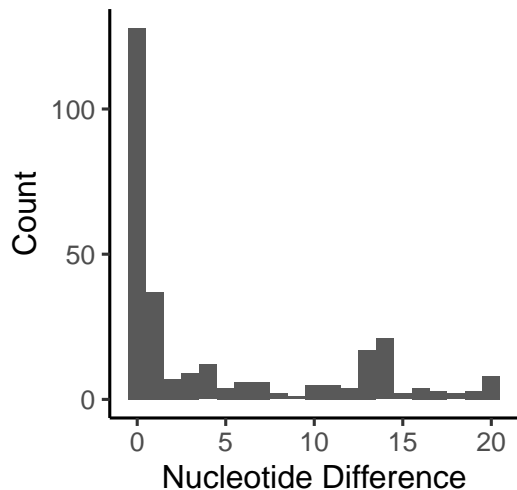
IGHV4-38-2*02

23 sequences assigned
2 (8.7%) exact matches, in which:
2 unique CDR3
1 unique J



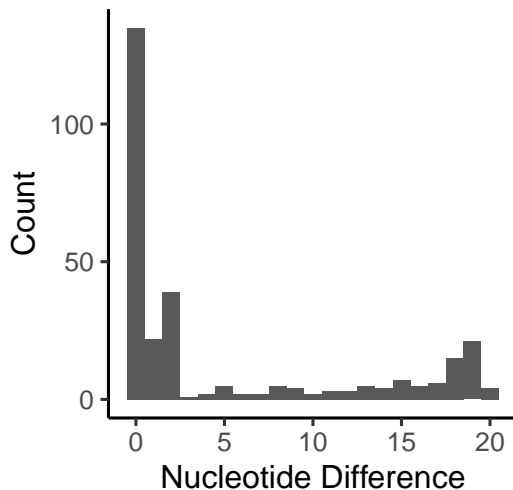
IGHV4-39*02_C258G

314 sequences assigned
128 (40.8%) exact matches, in which:
120 unique CDR3
6 unique J



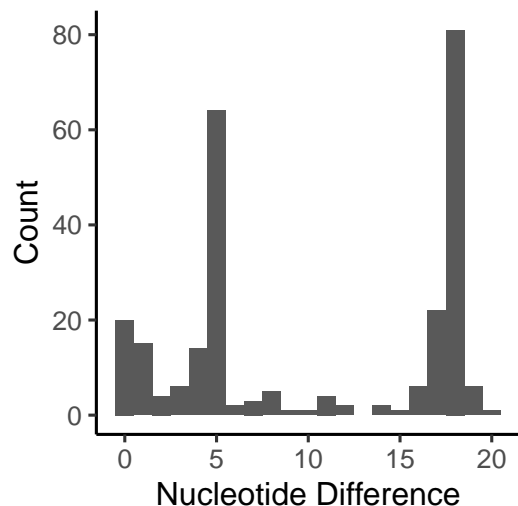
IGHV4-61*02

350 sequences assigned
135 (38.6%) exact matches, in which:
133 unique CDR3
6 unique J



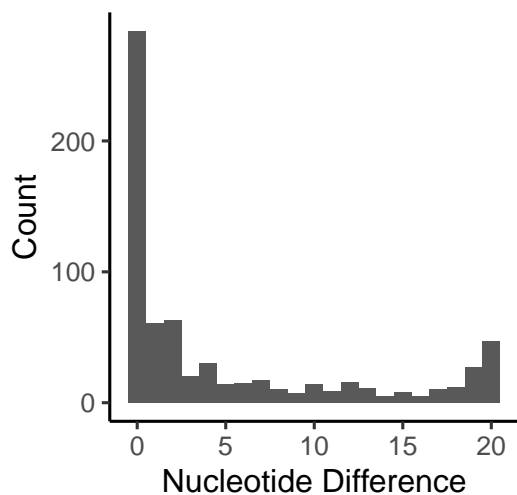
IGHV6-1*01_02

263 sequences assigned
20 (7.6%) exact matches, in which:
19 unique CDR3
4 unique J



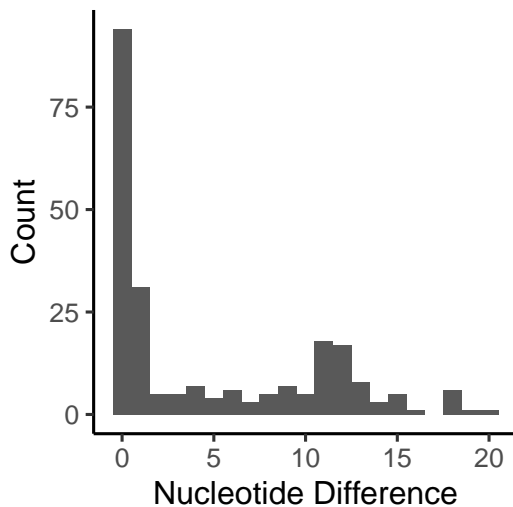
IGHV4-59*02_G88A

949 sequences assigned
284 (29.9%) exact matches, in which:
270 unique CDR3
6 unique J



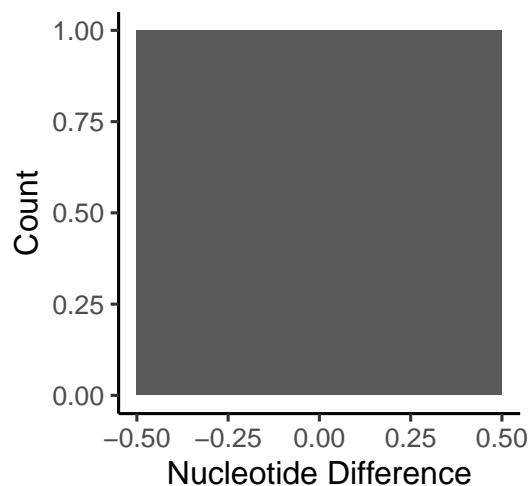
IGHV5-10-1*01_03

234 sequences assigned
94 (40.2%) exact matches, in which:
75 unique CDR3
6 unique J



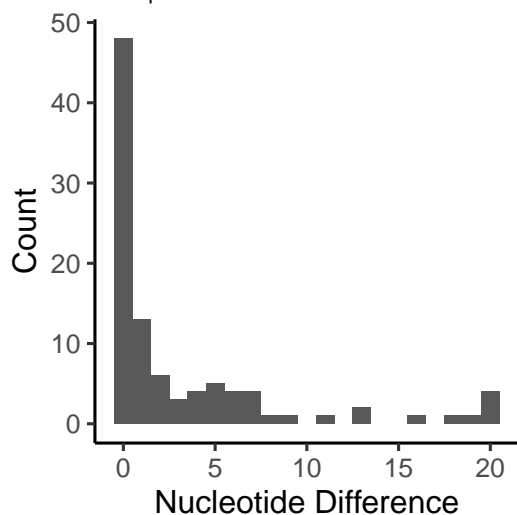
IGHV7-4-1*01

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



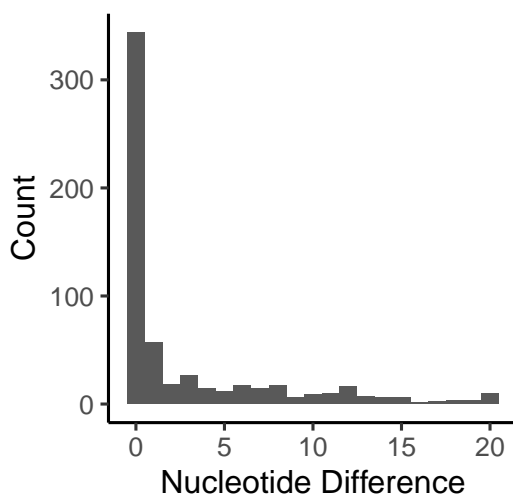
IGHV4-61*01

139 sequences assigned
48 (34.5%) exact matches, in which:
47 unique CDR3
5 unique J



IGHV5-51*07_A128G

639 sequences assigned
344 (53.8%) exact matches, in which:
252 unique CDR3
6 unique J





Warning – no inferred sequences found.