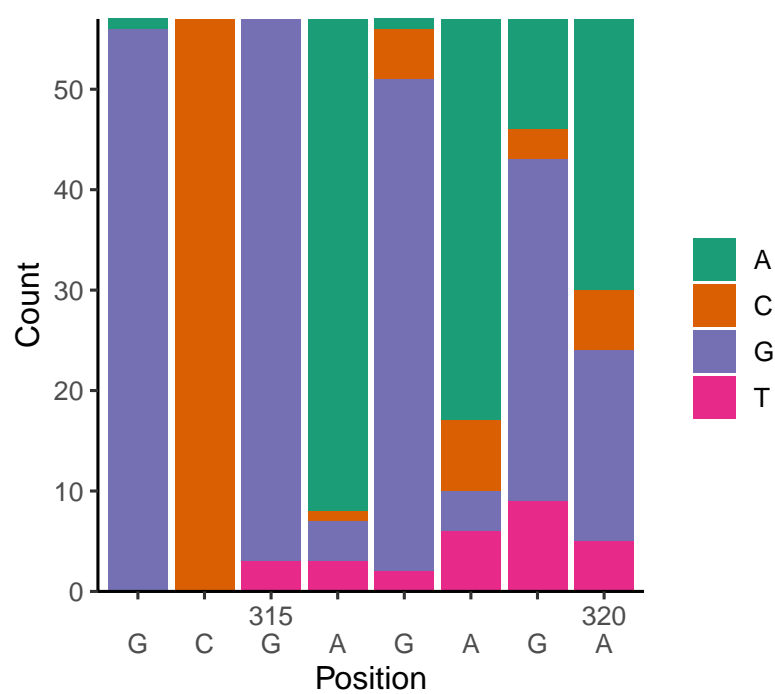


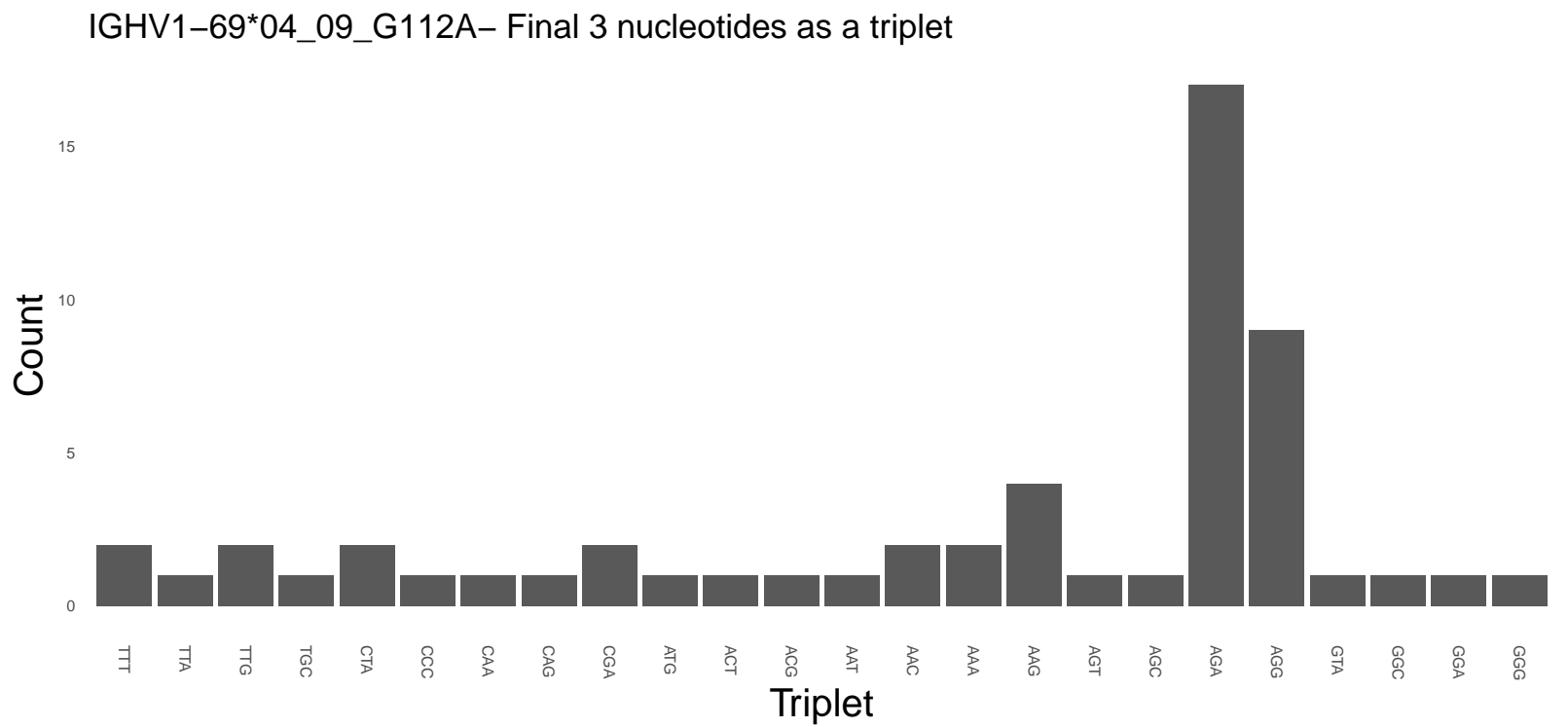
Gene IGHV1-69*04_09_G112A



Gene IGHV1-69*04_09_G112A

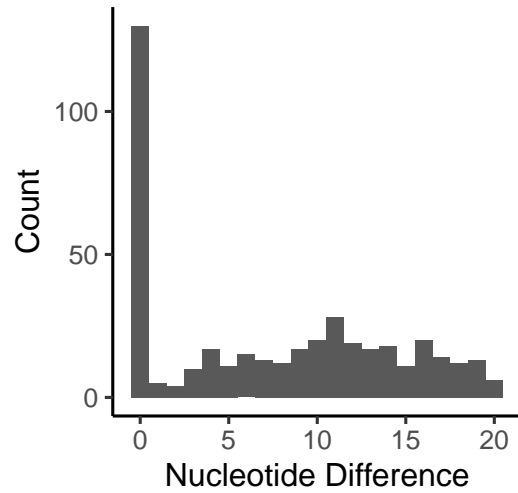


IGHV1-69*04_09_G112A- Final 3 nucleotides as a triplet



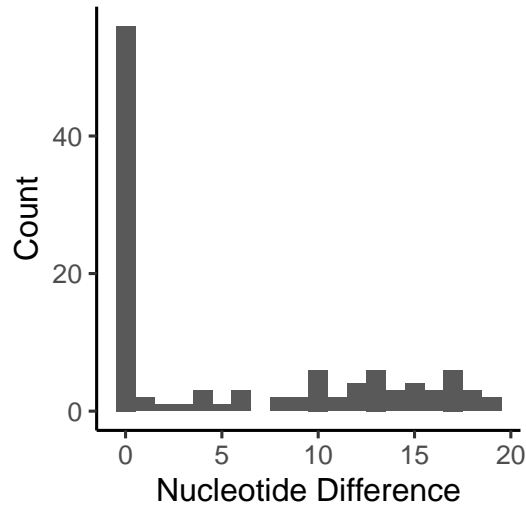
IGHV1-2*02

452 sequences assigned
130 (28.8%) exact matches, in which:
130 unique CDR3
6 unique J



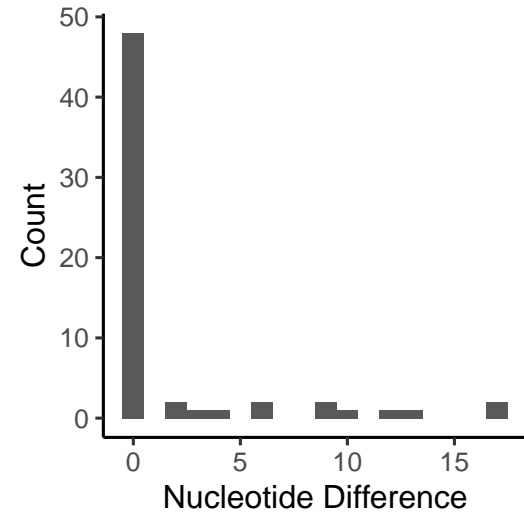
IGHV1-8*03

131 sequences assigned
56 (42.7%) exact matches, in which:
56 unique CDR3
4 unique J



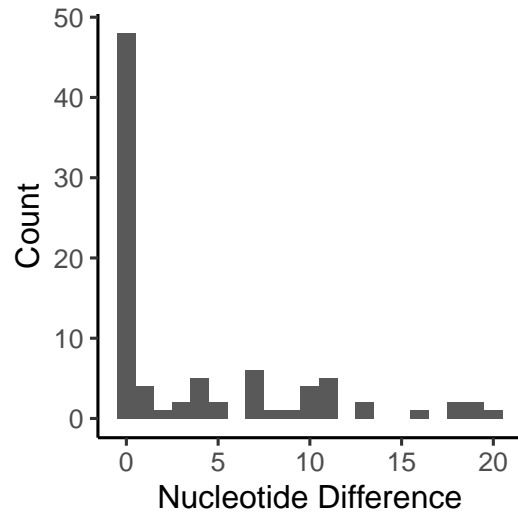
IGHV1-24*01

66 sequences assigned
48 (72.7%) exact matches, in which:
48 unique CDR3
5 unique J



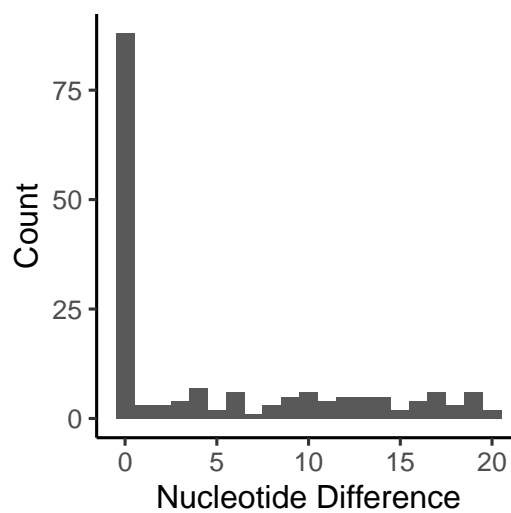
IGHV1-2*04

87 sequences assigned
48 (55.2%) exact matches, in which:
48 unique CDR3
5 unique J



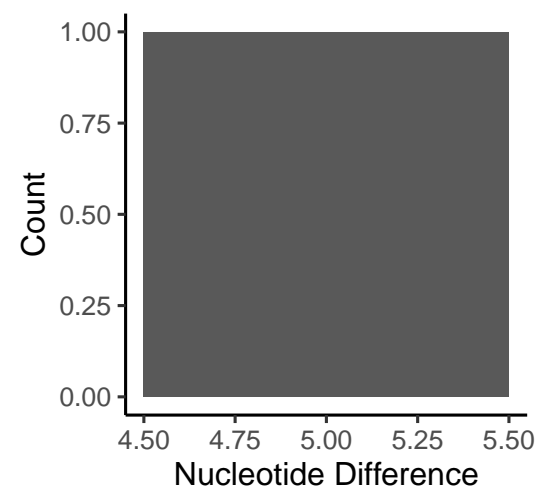
IGHV1-18*01

194 sequences assigned
88 (45.4%) exact matches, in which:
88 unique CDR3
5 unique J



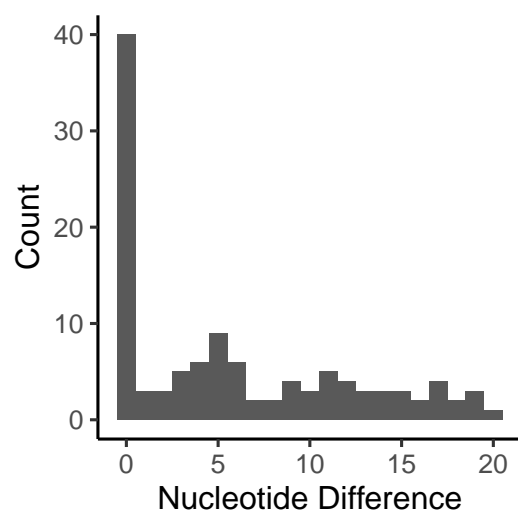
IGHV1-45*02

1 sequences assigned
No exact matches.



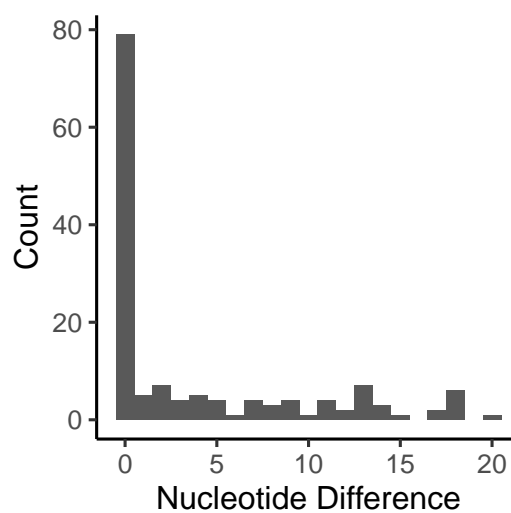
IGHV1-3*01_05

124 sequences assigned
40 (32.3%) exact matches, in which:
40 unique CDR3
5 unique J



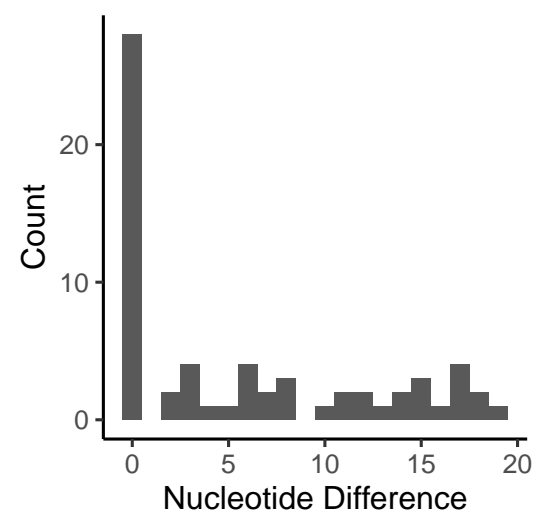
IGHV1-18*04

156 sequences assigned
79 (50.6%) exact matches, in which:
79 unique CDR3
4 unique J



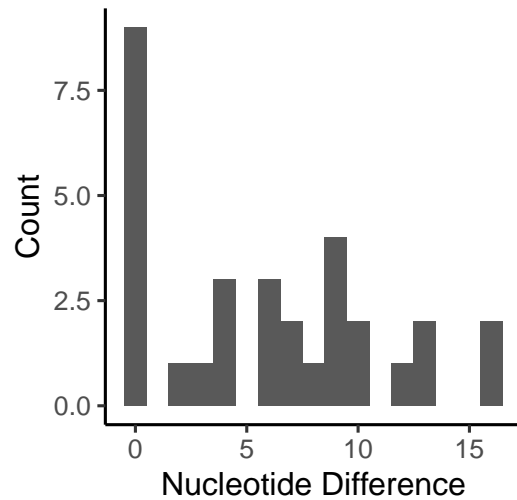
IGHV1-46*01

73 sequences assigned
28 (38.4%) exact matches, in which:
28 unique CDR3
4 unique J



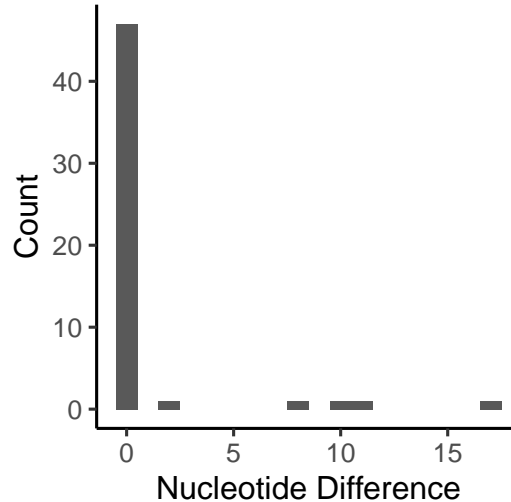
IGHV1-46*03

34 sequences assigned
9 (26.5%) exact matches, in which:
9 unique CDR3
5 unique J



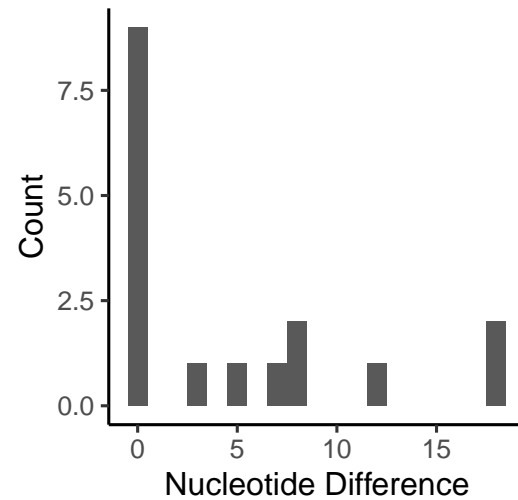
IGHV1-69*04_09_G112A

57 sequences assigned
47 (82.5%) exact matches, in which:
46 unique CDR3
5 unique J



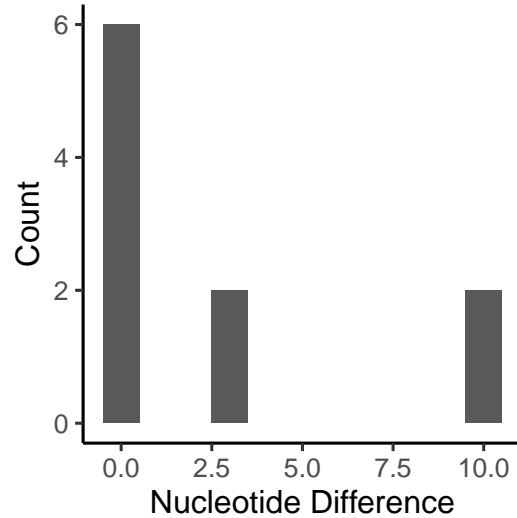
IGHV2-26*01

17 sequences assigned
9 (52.9%) exact matches, in which:
9 unique CDR3
3 unique J



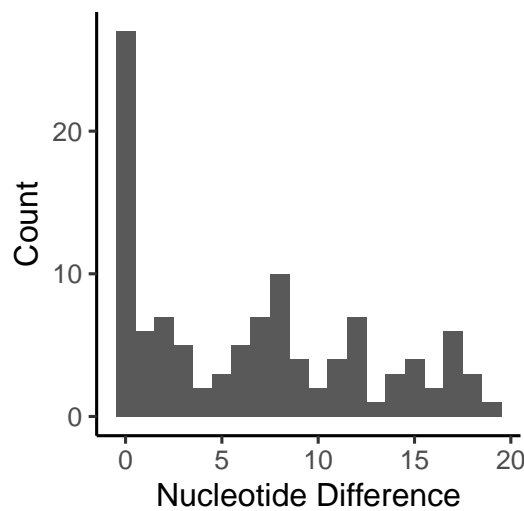
IGHV1-58*02

10 sequences assigned
6 (60%) exact matches, in which:
6 unique CDR3
3 unique J



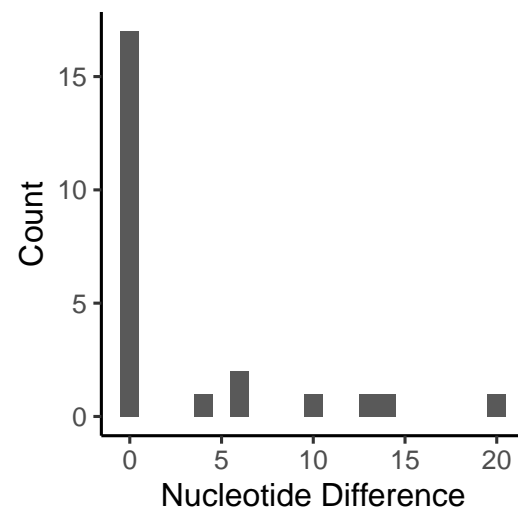
IGHV2-5*01

114 sequences assigned
27 (23.7%) exact matches, in which:
27 unique CDR3
4 unique J



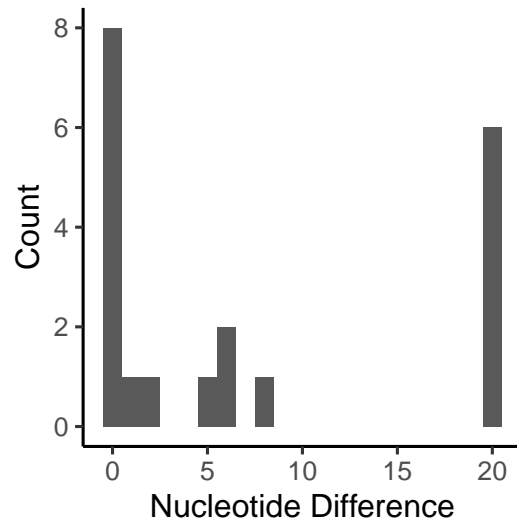
IGHV2-70*01

27 sequences assigned
17 (63%) exact matches, in which:
17 unique CDR3
4 unique J



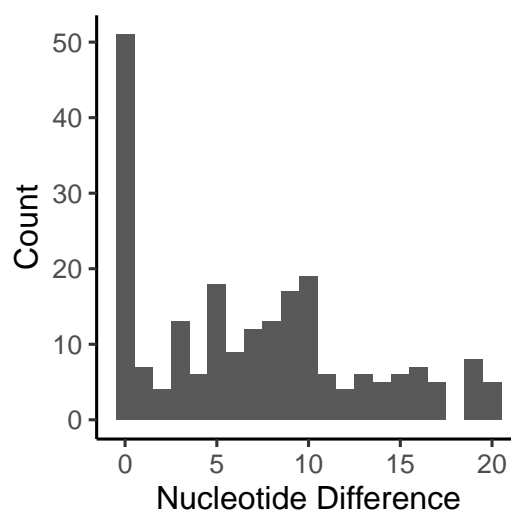
IGHV1-58*01_03

23 sequences assigned
8 (34.8%) exact matches, in which:
8 unique CDR3
3 unique J



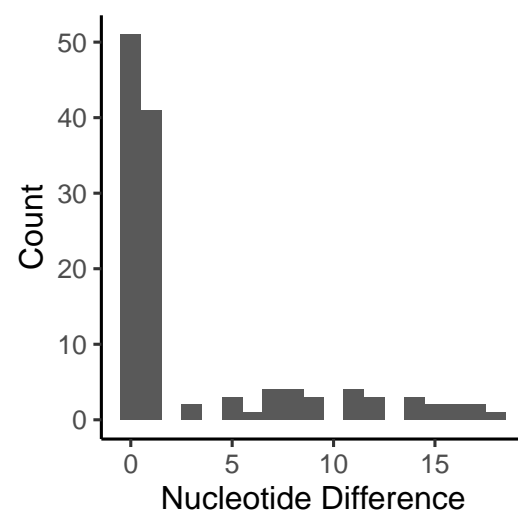
IGHV2-5*02

255 sequences assigned
51 (20%) exact matches, in which:
51 unique CDR3
5 unique J



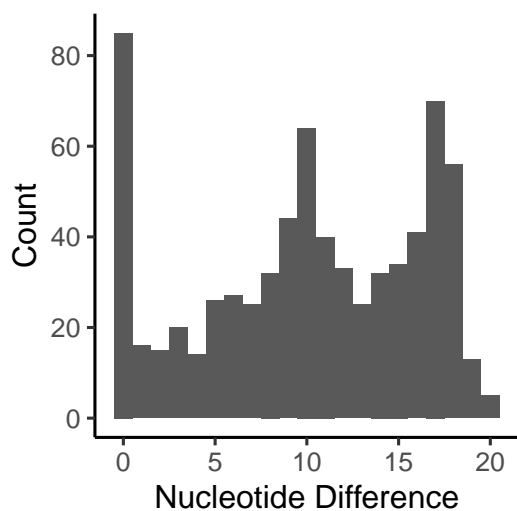
IGHV2-70*11_15

129 sequences assigned
51 (39.5%) exact matches, in which:
34 unique CDR3
3 unique J



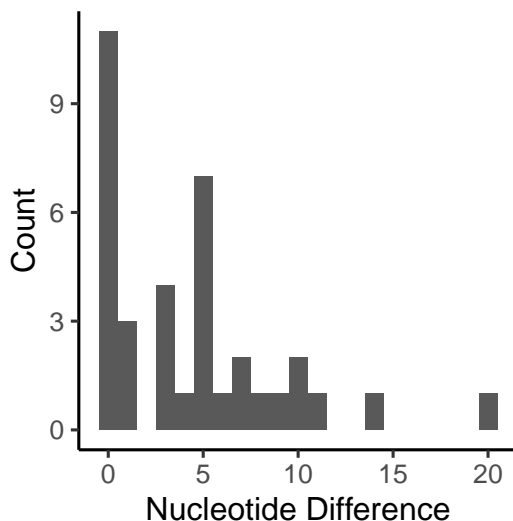
IGHV3-7*01

802 sequences assigned
85 (10.6%) exact matches, in which:
83 unique CDR3
6 unique J



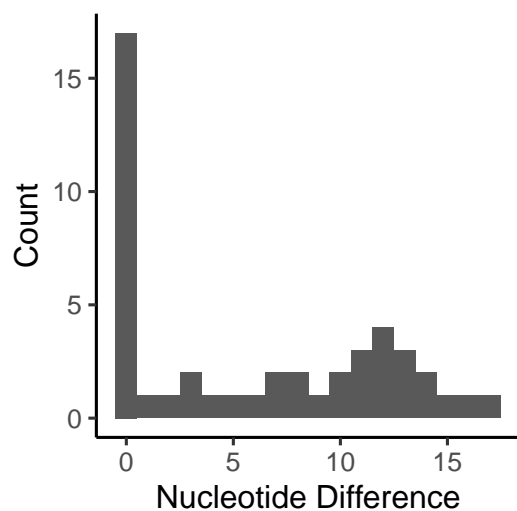
IGHV3-9*03

42 sequences assigned
11 (26.2%) exact matches, in which:
10 unique CDR3
3 unique J



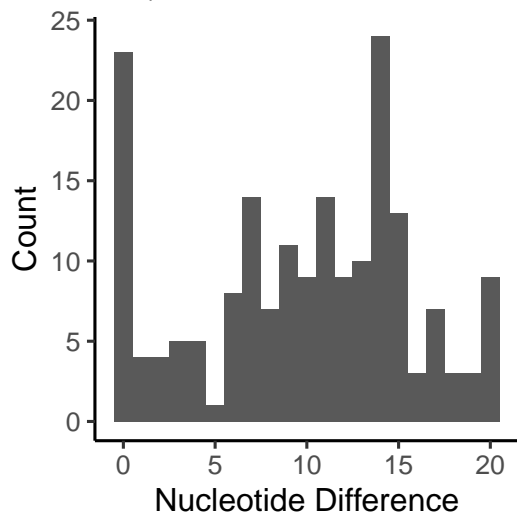
IGHV3-13*04

50 sequences assigned
17 (34%) exact matches, in which:
17 unique CDR3
4 unique J



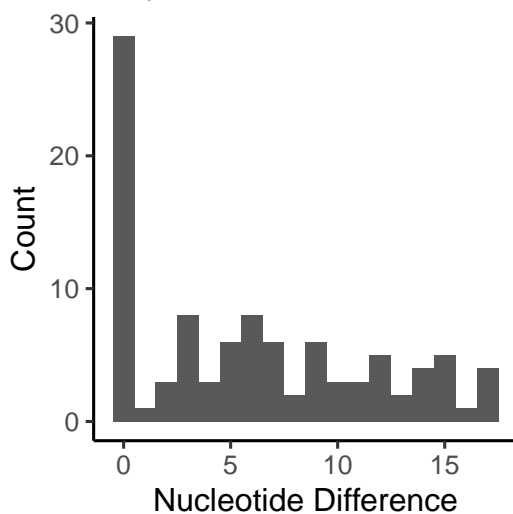
IGHV3-7*04

212 sequences assigned
23 (10.8%) exact matches, in which:
23 unique CDR3
3 unique J



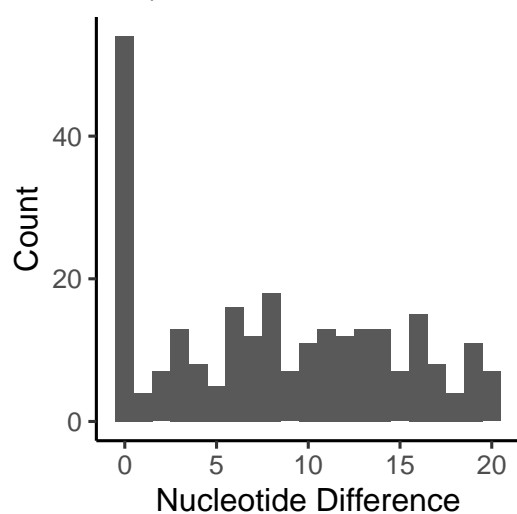
IGHV3-11*04

126 sequences assigned
29 (23%) exact matches, in which:
28 unique CDR3
5 unique J



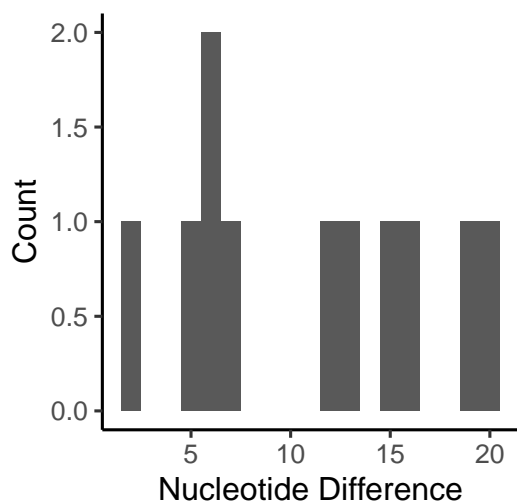
IGHV3-15*01_02

303 sequences assigned
54 (17.8%) exact matches, in which:
51 unique CDR3
6 unique J



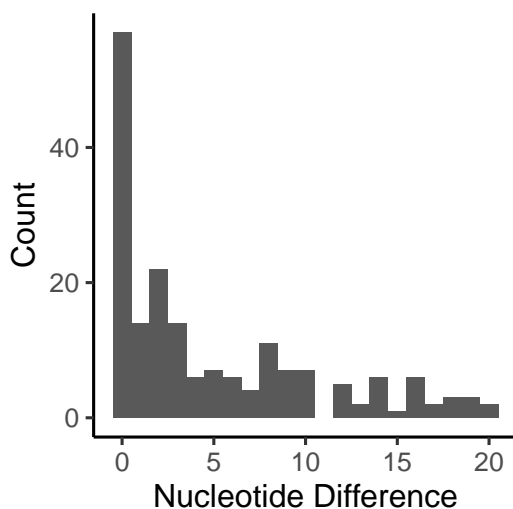
IGHV3-9*01

13 sequences assigned
No exact matches.



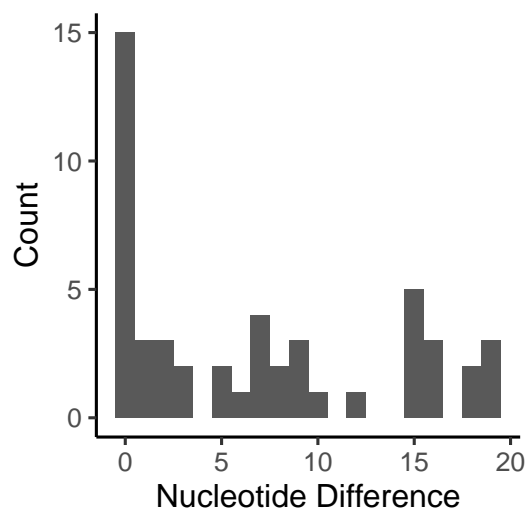
IGHV3-11*03_05

197 sequences assigned
57 (28.9%) exact matches, in which:
52 unique CDR3
5 unique J



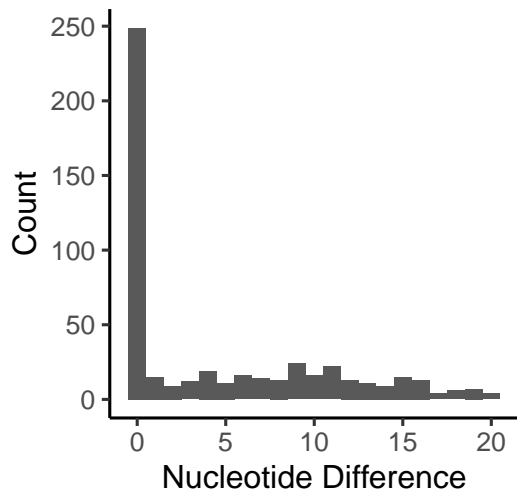
IGHV3-20*03_04

58 sequences assigned
15 (25.9%) exact matches, in which:
14 unique CDR3
3 unique J



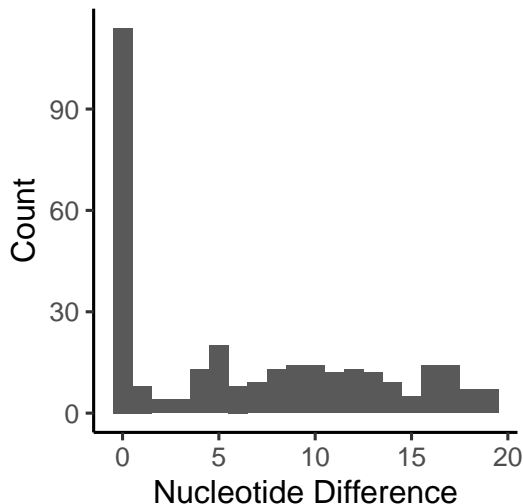
IGHV3-21*01_02

562 sequences assigned
249 (44.3%) exact matches, in which:
236 unique CDR3
6 unique J



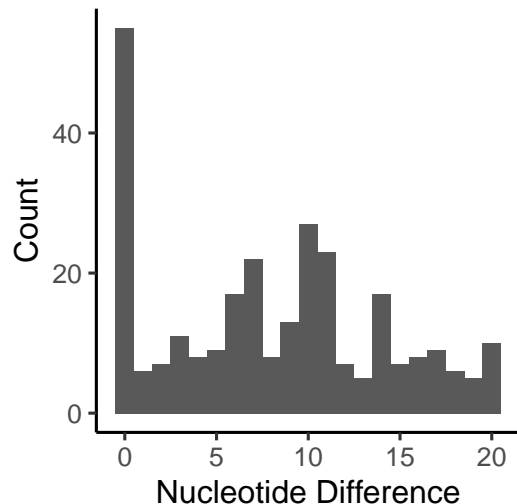
IGHV3-33*01

348 sequences assigned
114 (32.8%) exact matches, in which:
108 unique CDR3
6 unique J



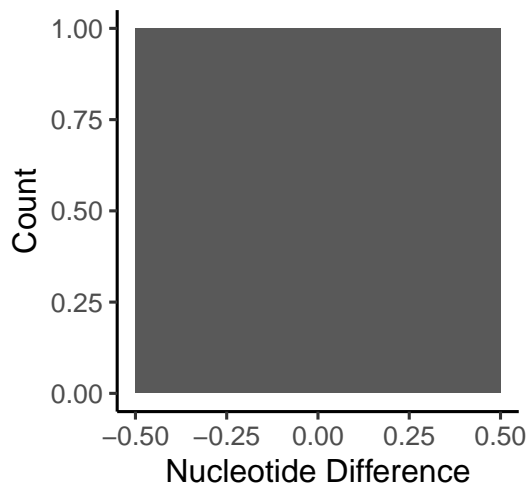
IGHV3-48*01

316 sequences assigned
55 (17.4%) exact matches, in which:
51 unique CDR3
4 unique J



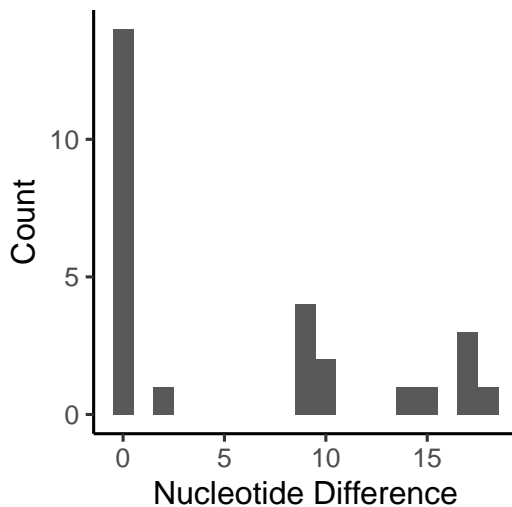
IGHV3-30-3*01

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



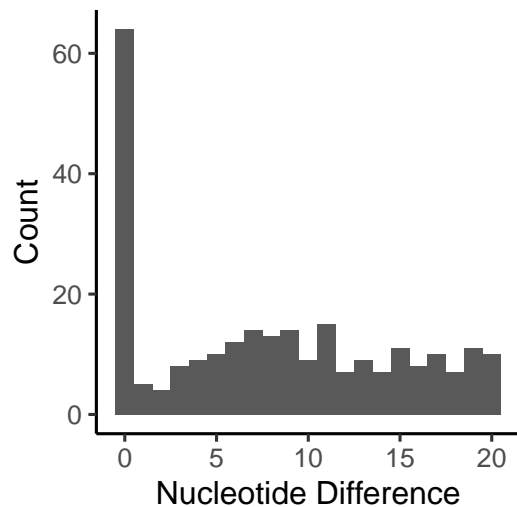
IGHV3-43*01

30 sequences assigned
14 (46.7%) exact matches, in which:
11 unique CDR3
2 unique J



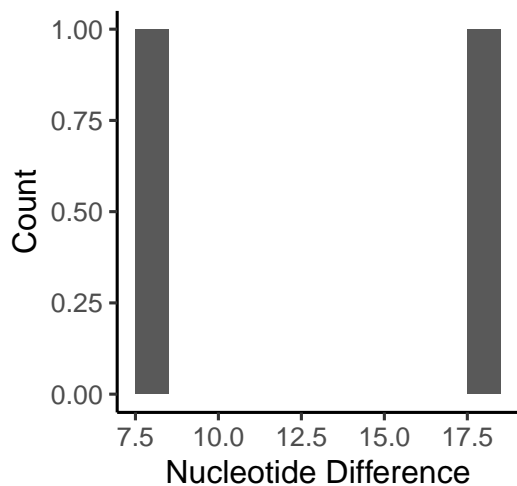
IGHV3-48*02

311 sequences assigned
64 (20.6%) exact matches, in which:
58 unique CDR3
6 unique J



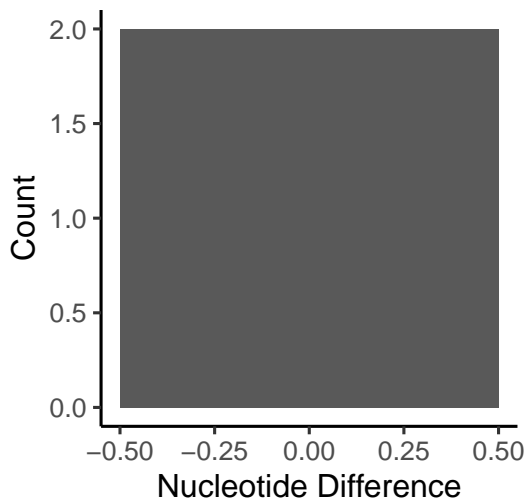
IGHV3-30-3*03

2 sequences assigned
No exact matches.



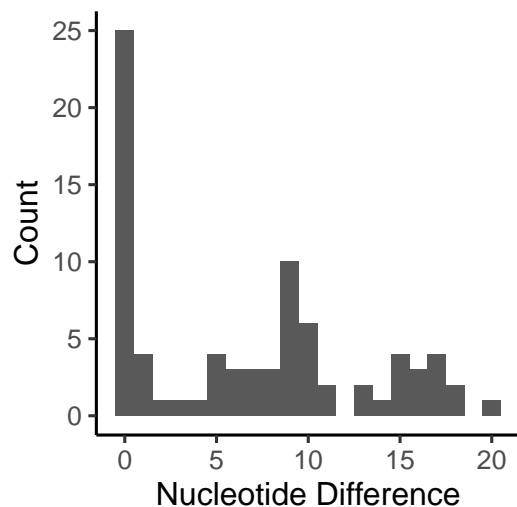
IGHV3-47*02

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



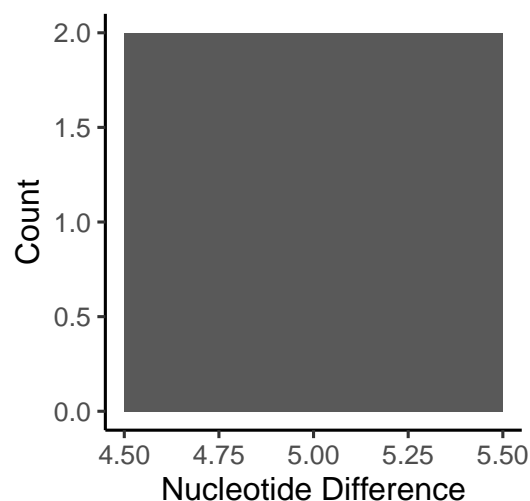
IGHV3-49*03_05

95 sequences assigned
25 (26.3%) exact matches, in which:
24 unique CDR3
4 unique J



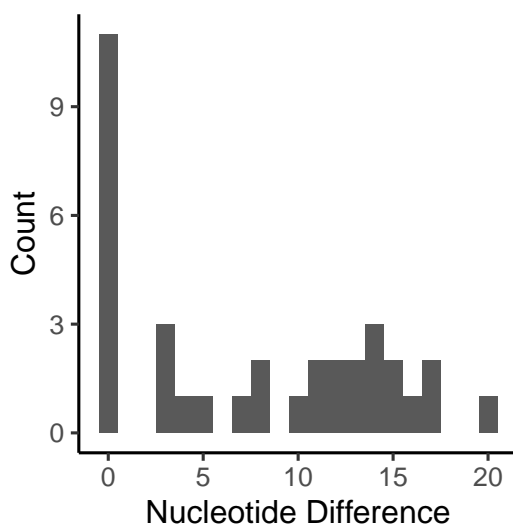
IGHV3-52*01_03

2 sequences assigned
No exact matches.



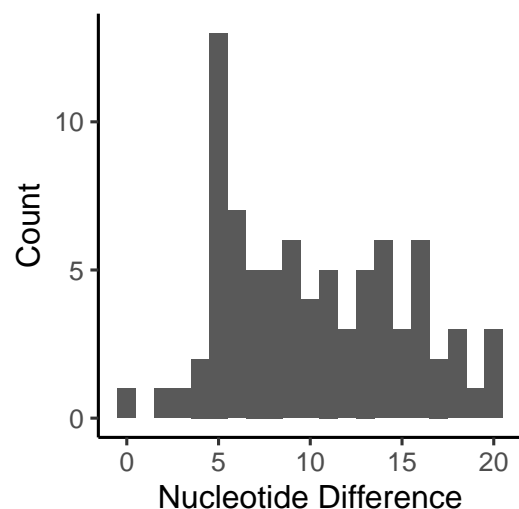
IGHV3-64*01

38 sequences assigned
11 (28.9%) exact matches, in which:
10 unique CDR3
3 unique J



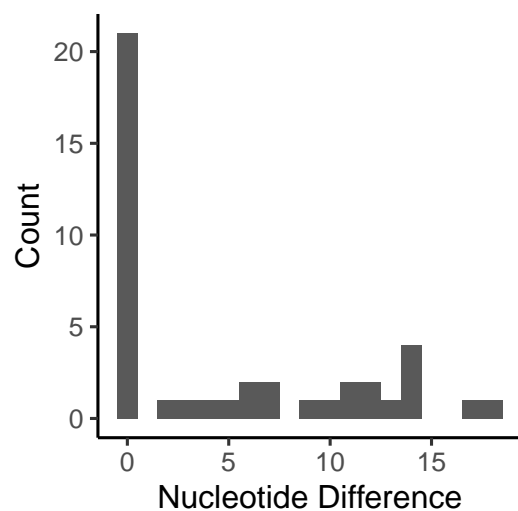
IGHV3-72*01

86 sequences assigned
1 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



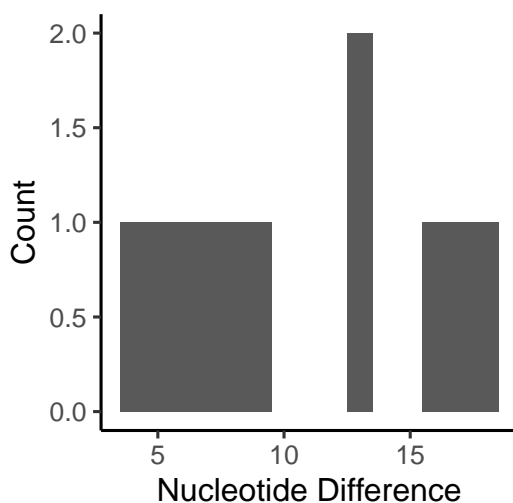
IGHV3-53*04

52 sequences assigned
21 (40.4%) exact matches, in which:
18 unique CDR3
3 unique J



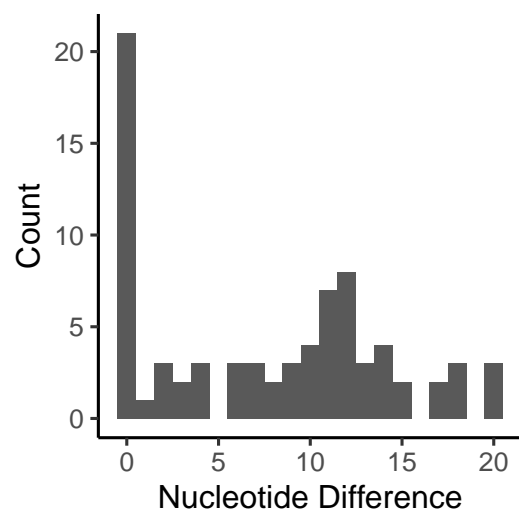
IGHV3-64*02_07

11 sequences assigned
No exact matches.



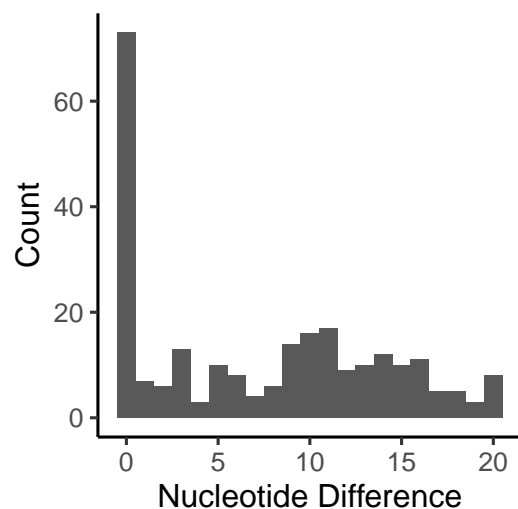
IGHV3-73*01_02

90 sequences assigned
21 (23.3%) exact matches, in which:
20 unique CDR3
4 unique J



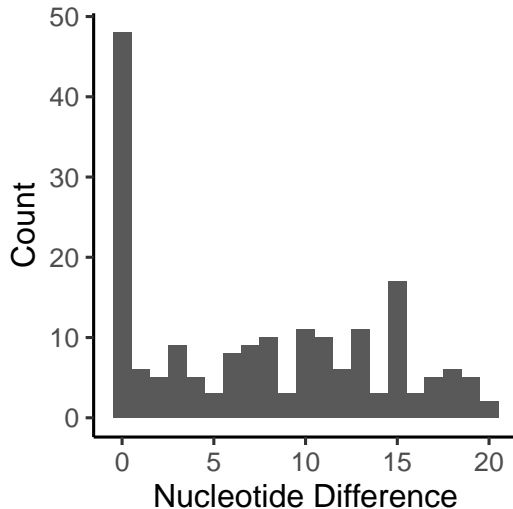
IGHV3-53*01_02

265 sequences assigned
73 (27.5%) exact matches, in which:
65 unique CDR3
5 unique J



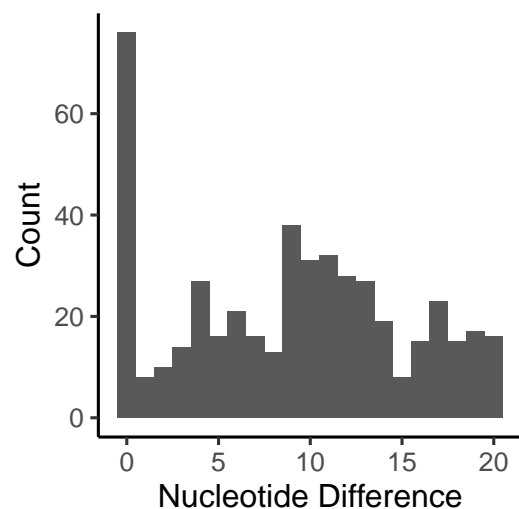
IGHV3-66*01

193 sequences assigned
48 (24.9%) exact matches, in which:
43 unique CDR3
6 unique J



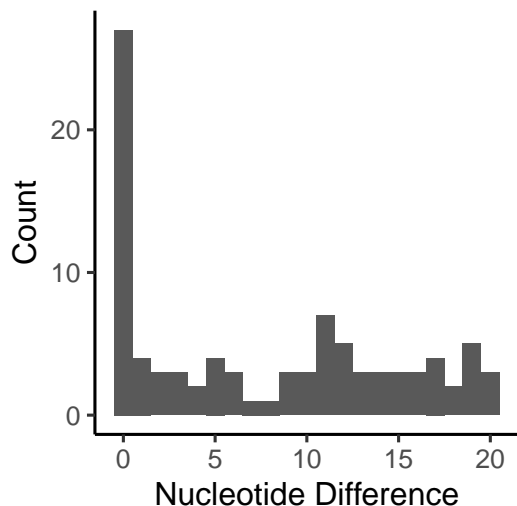
IGHV3-74*01_02

522 sequences assigned
76 (14.6%) exact matches, in which:
73 unique CDR3
5 unique J



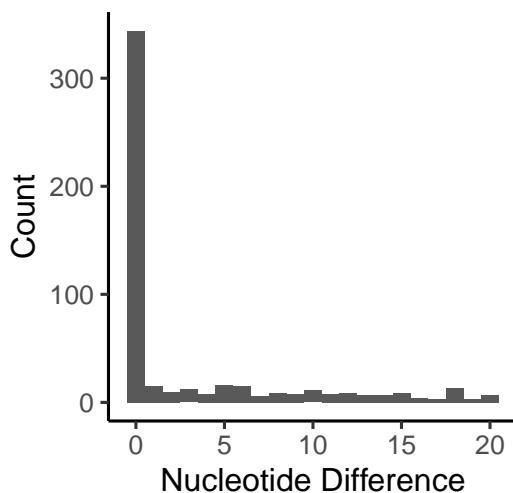
IGHV3-64D*06

109 sequences assigned
27 (24.8%) exact matches, in which:
26 unique CDR3
4 unique J



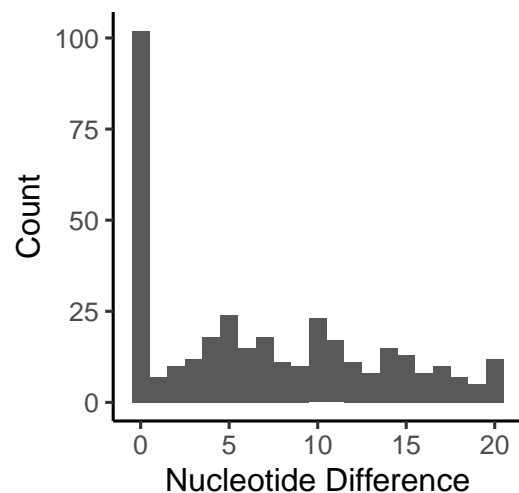
IGHV4-34*01_02

578 sequences assigned
344 (59.5%) exact matches, in which:
322 unique CDR3
6 unique J



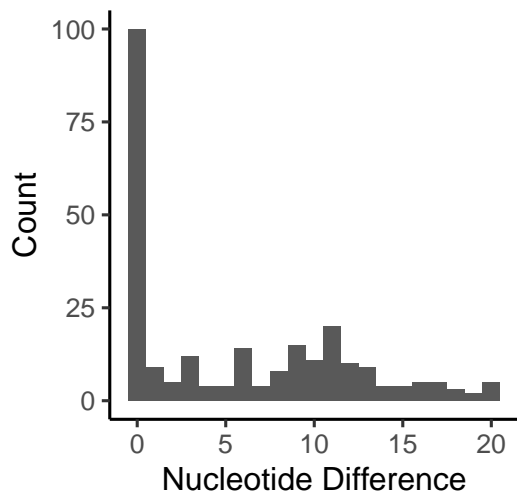
IGHV4-59*08

387 sequences assigned
102 (26.4%) exact matches, in which:
97 unique CDR3
5 unique J



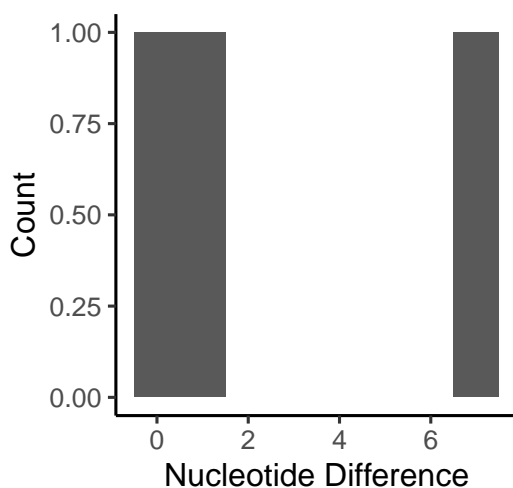
IGHV4-4*07

288 sequences assigned
100 (34.7%) exact matches, in which:
96 unique CDR3
5 unique J



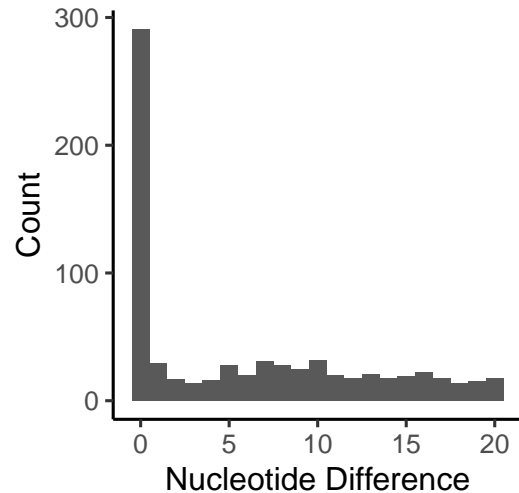
IGHV4-38-2*02

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



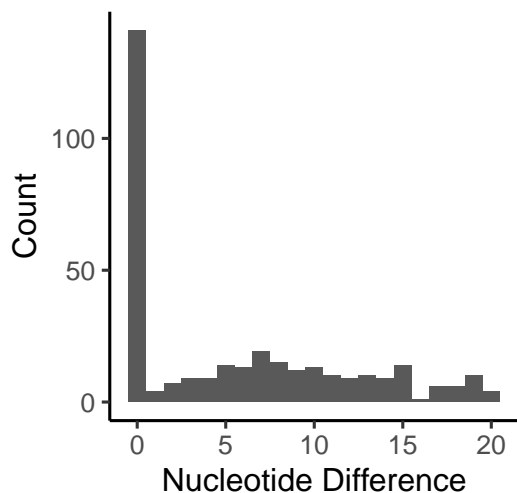
IGHV4-59*01_07

807 sequences assigned
291 (36.1%) exact matches, in which:
261 unique CDR3
6 unique J



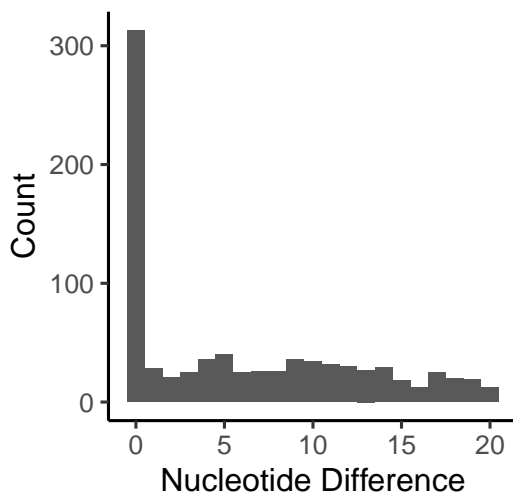
IGHV4-31*03_04

364 sequences assigned
141 (38.7%) exact matches, in which:
136 unique CDR3
6 unique J



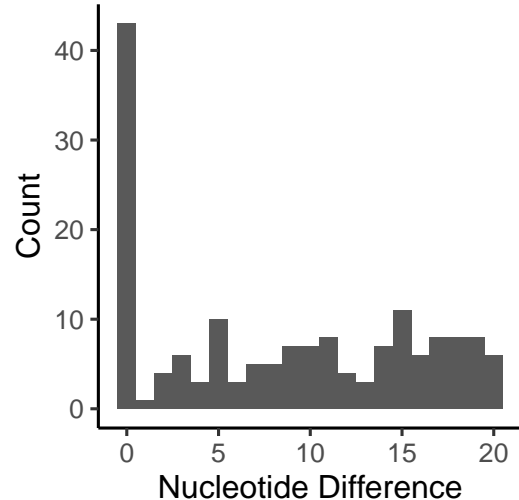
IGHV4-39*01_05

983 sequences assigned
313 (31.8%) exact matches, in which:
301 unique CDR3
6 unique J



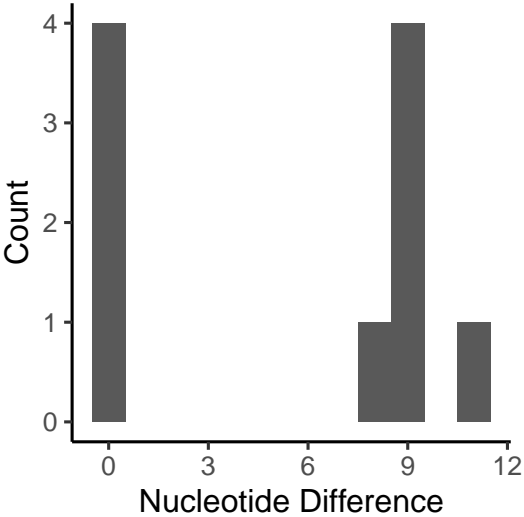
IGHV4-61*01

194 sequences assigned
43 (22.2%) exact matches, in which:
42 unique CDR3
5 unique J



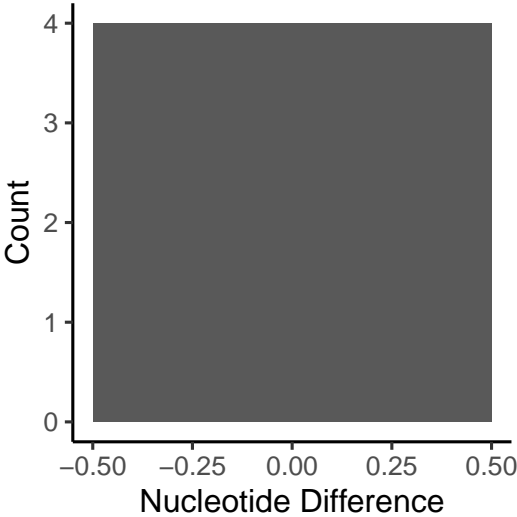
IGHV5-10-1*01_03

14 sequences assigned
4 (28.6%) exact matches, in which:
4 unique CDR3
2 unique J



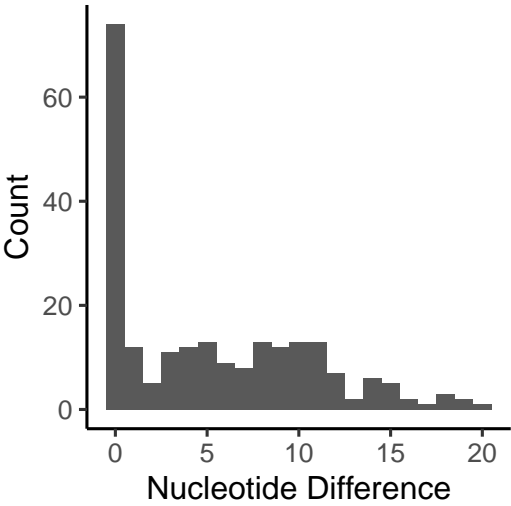
IGHV7-4-1*01

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



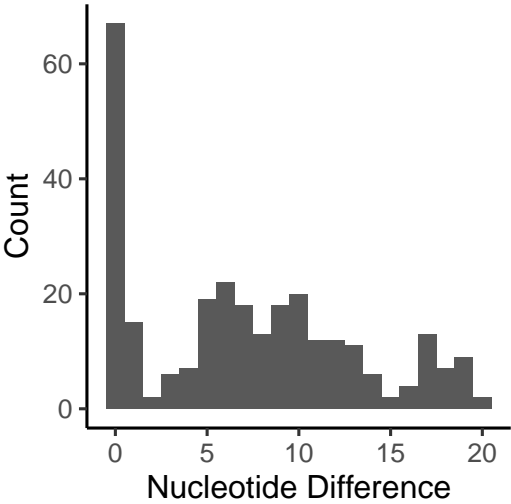
IGHV5-51*01_03

242 sequences assigned
74 (30.6%) exact matches, in which:
74 unique CDR3
5 unique J



IGHV6-1*01_02

288 sequences assigned
67 (23.3%) exact matches, in which:
64 unique CDR3
5 unique J





Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.