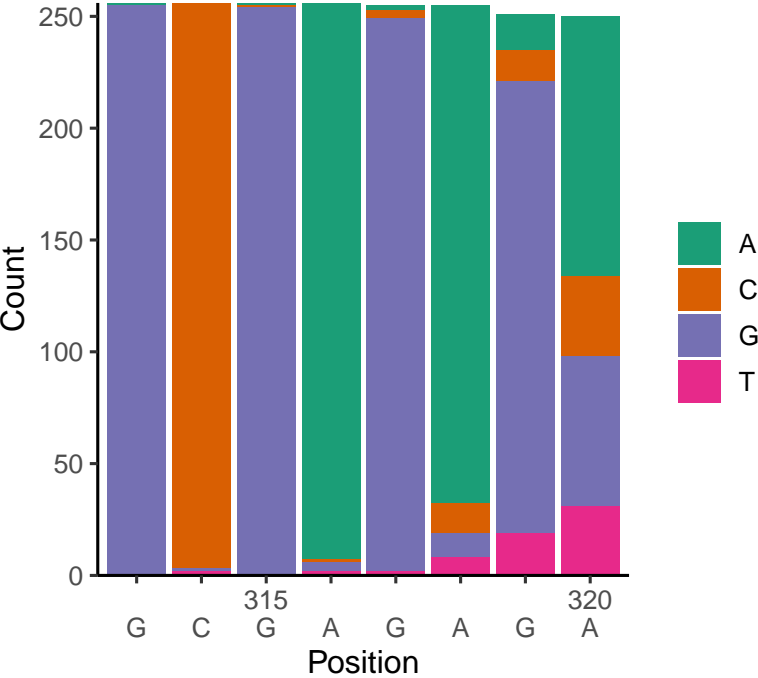
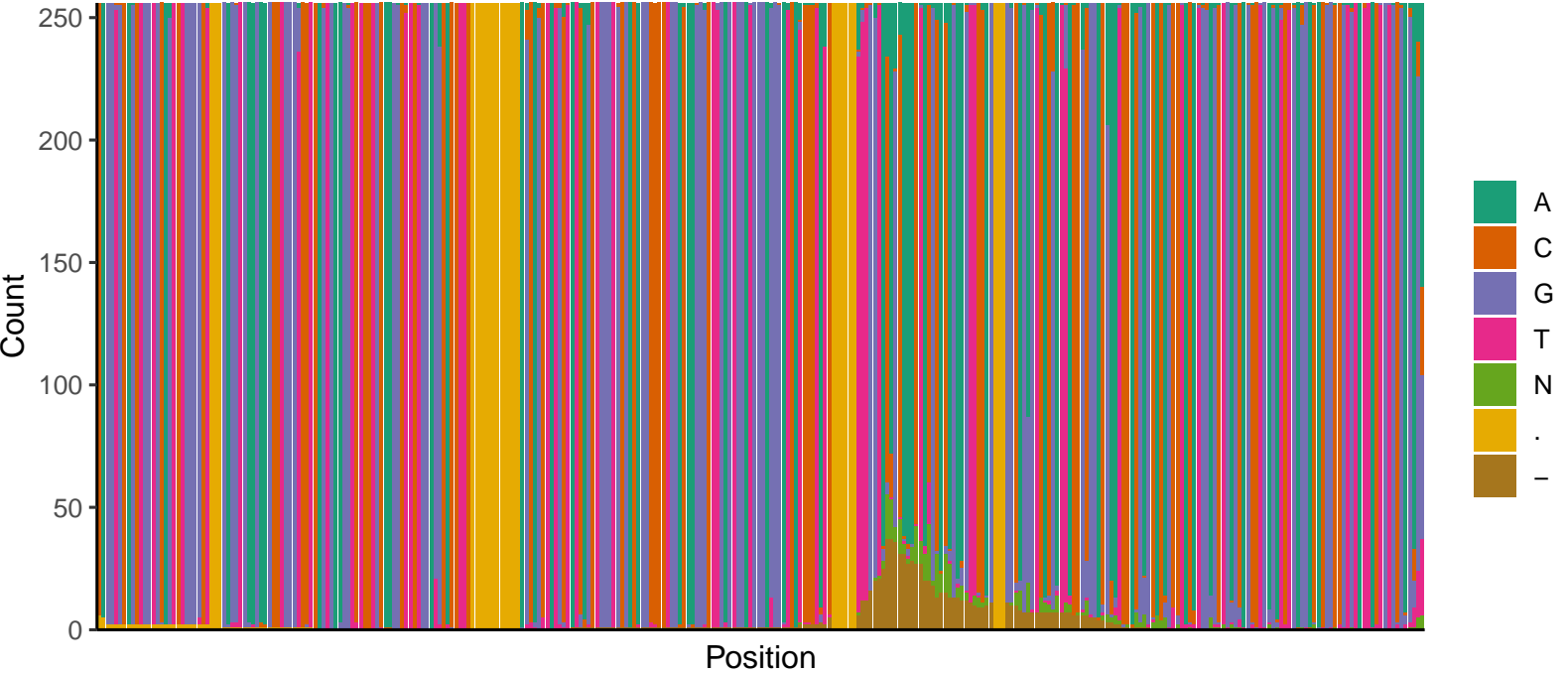


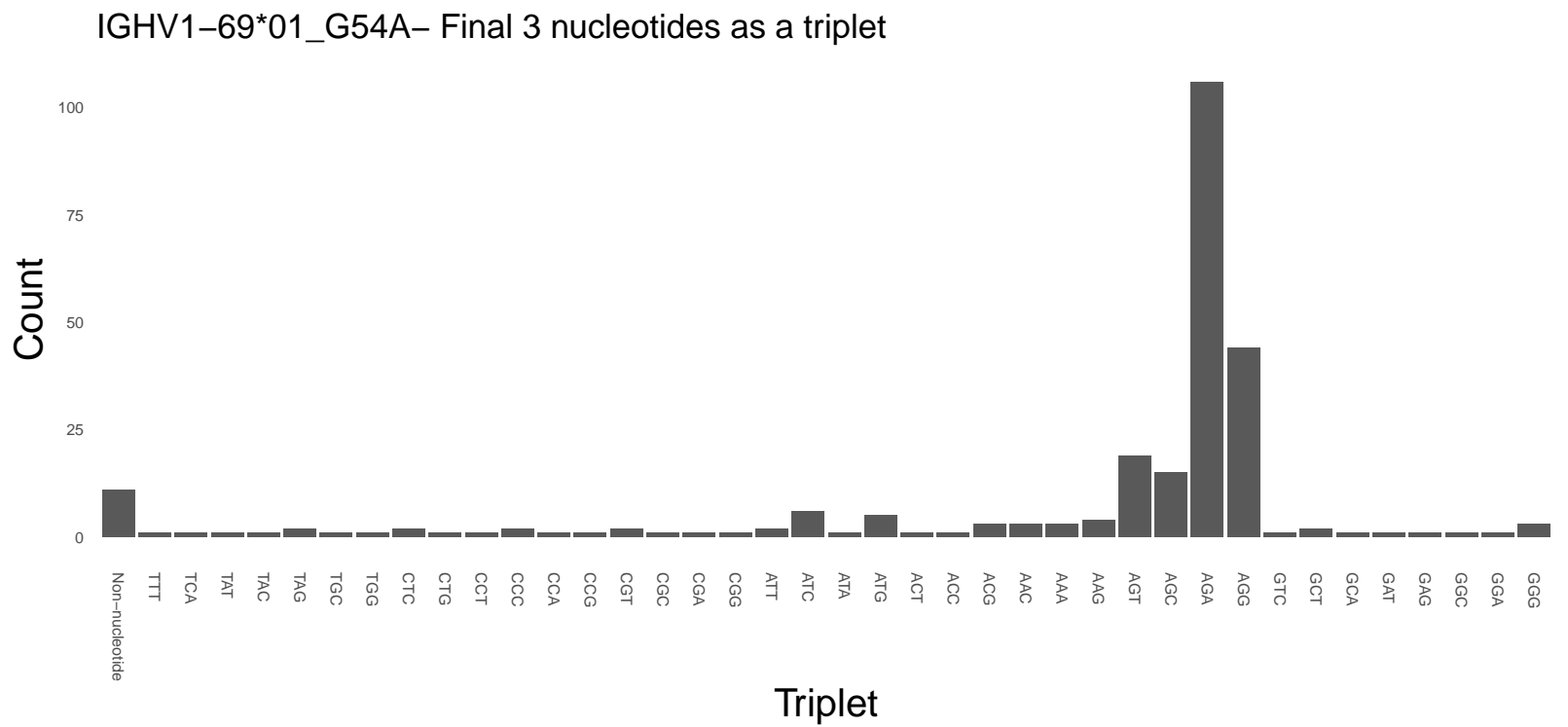
Gene IGHV1-69*01_G54A



Gene IGHV1-69*01_G54A

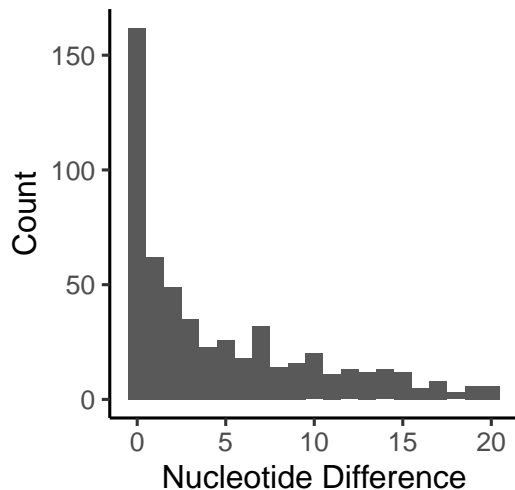


IGHV1-69*01_G54A- Final 3 nucleotides as a triplet



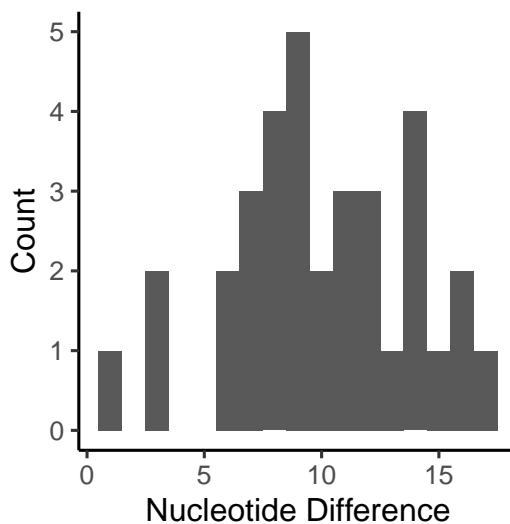
IGHV1-2*02

568 sequences assigned
162 (28.5%) exact matches, in which:
156 unique CDR3
6 unique J



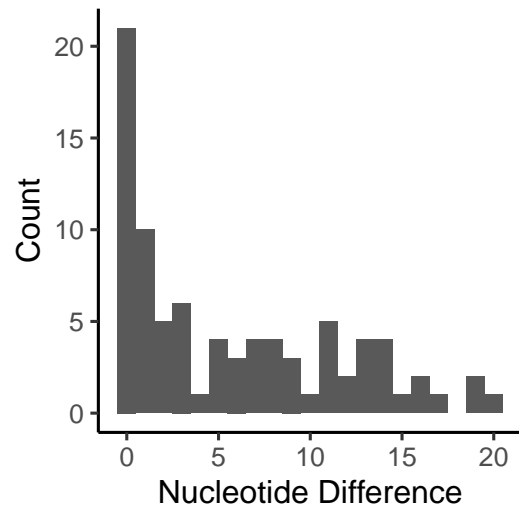
IGHV1-8*02

36 sequences assigned
No exact matches.



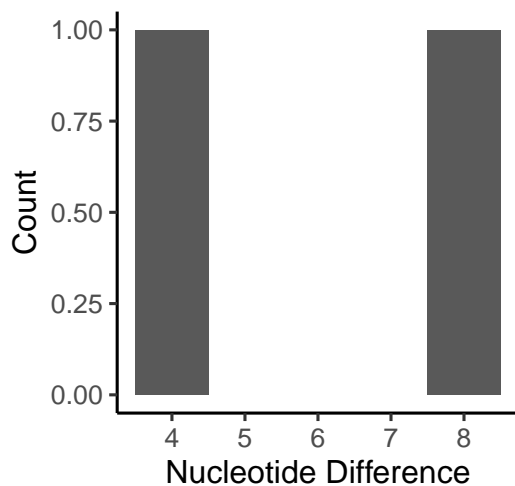
IGHV1-46*01

99 sequences assigned
21 (21.2%) exact matches, in which:
21 unique CDR3
4 unique J



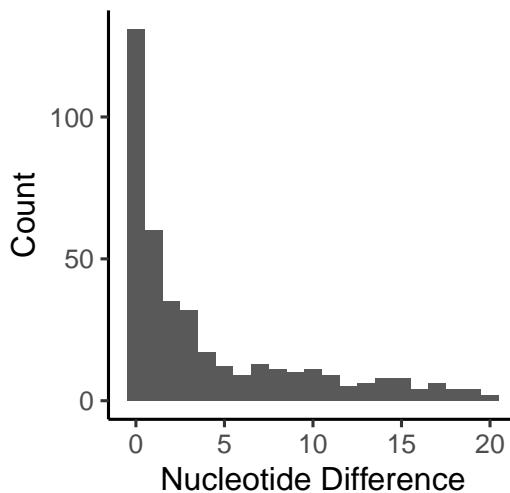
IGHV1-3*01

2 sequences assigned
No exact matches.



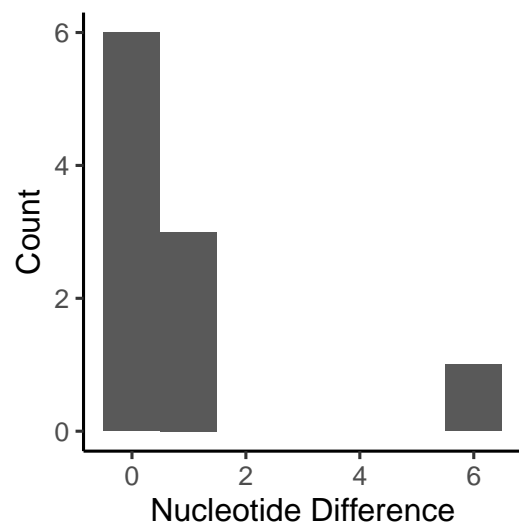
IGHV1-18*01

420 sequences assigned
131 (31.2%) exact matches, in which:
124 unique CDR3
5 unique J



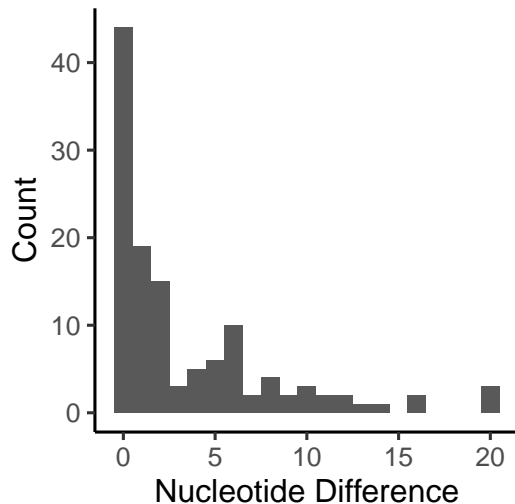
IGHV1-58*01

12 sequences assigned
6 (50%) exact matches, in which:
6 unique CDR3
3 unique J



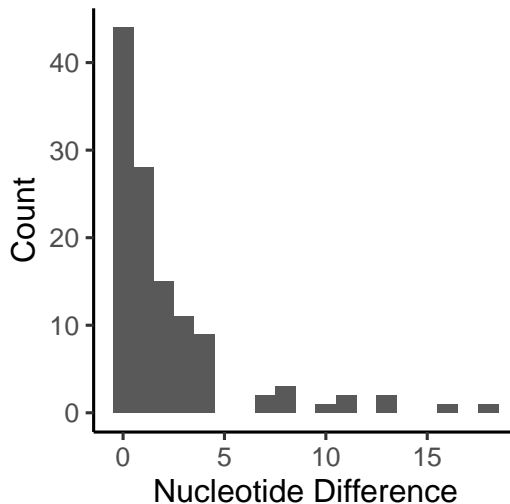
IGHV1-8*01

126 sequences assigned
44 (34.9%) exact matches, in which:
42 unique CDR3
6 unique J



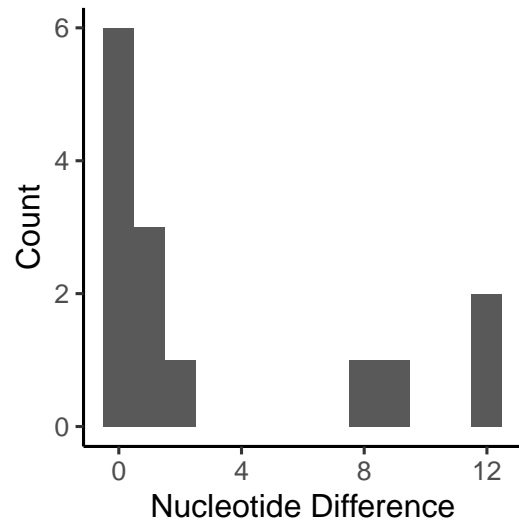
IGHV1-24*01

119 sequences assigned
44 (37%) exact matches, in which:
44 unique CDR3
5 unique J



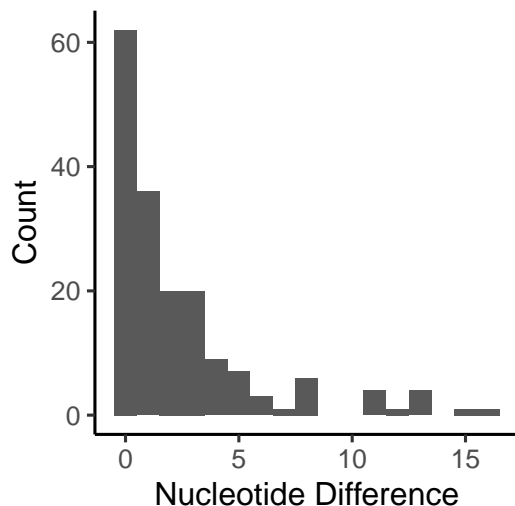
IGHV1-58*02

14 sequences assigned
6 (42.9%) exact matches, in which:
6 unique CDR3
3 unique J



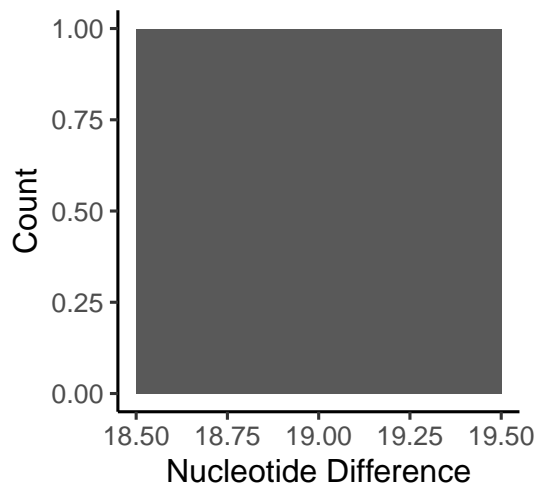
IGHV1-69*04

181 sequences assigned
62 (34.3%) exact matches, in which:
61 unique CDR3
5 unique J



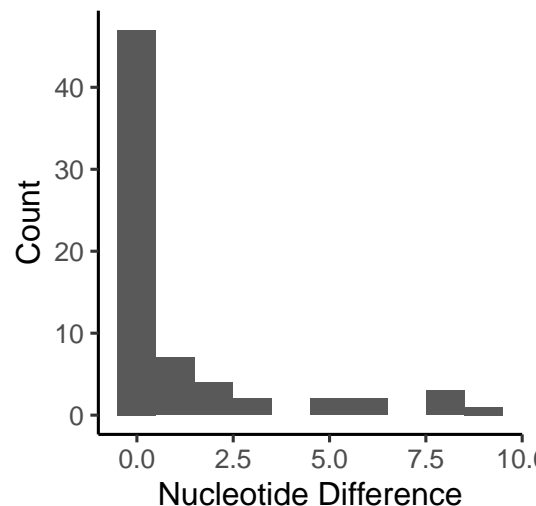
IGHV1-NL1*01

1 sequences assigned
No exact matches.



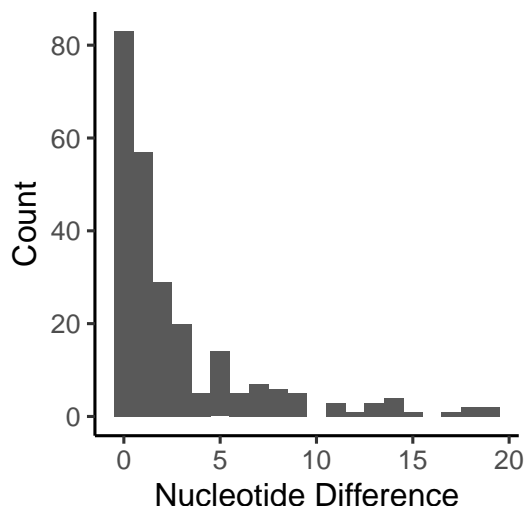
IGHV2-26*01

68 sequences assigned
47 (69.1%) exact matches, in which:
47 unique CDR3
5 unique J



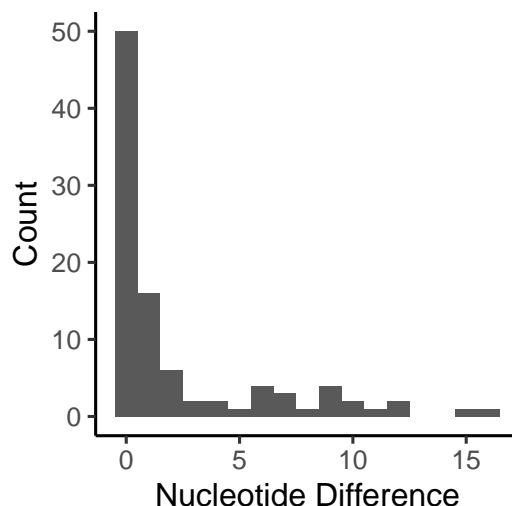
IGHV1-69*01_G54A

256 sequences assigned
83 (32.4%) exact matches, in which:
82 unique CDR3
5 unique J



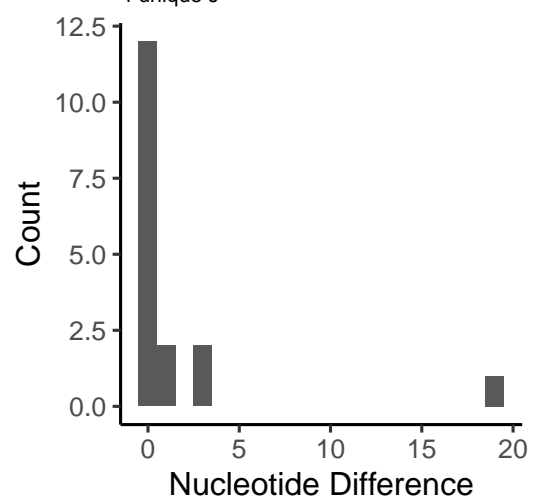
IGHV2-5*01

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



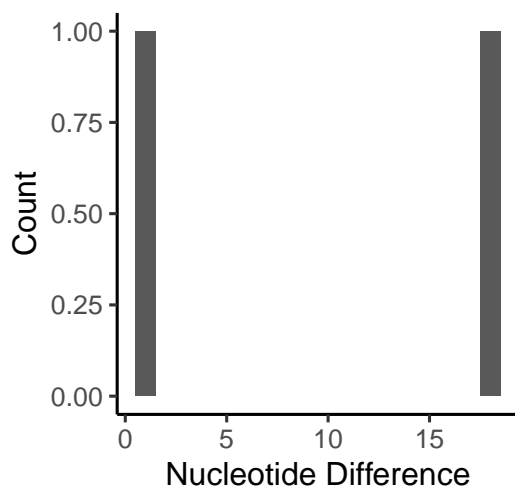
IGHV2-70*01

17 sequences assigned
12 (70.6%) exact matches, in which:
12 unique CDR3
4 unique J



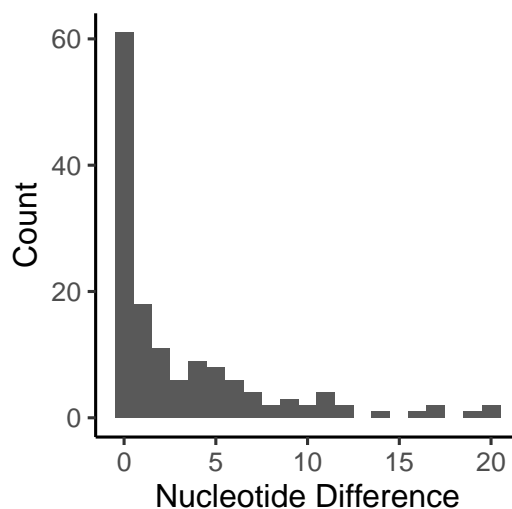
IGHV1-69D*01

2 sequences assigned
No exact matches.



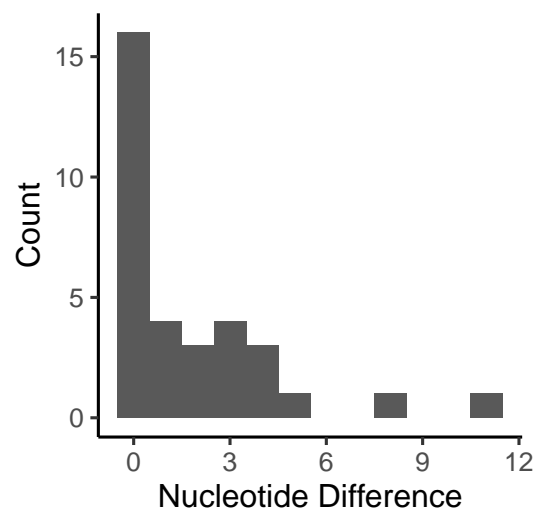
IGHV2-5*02

148 sequences assigned
61 (41.2%) exact matches, in which:
59 unique CDR3
5 unique J



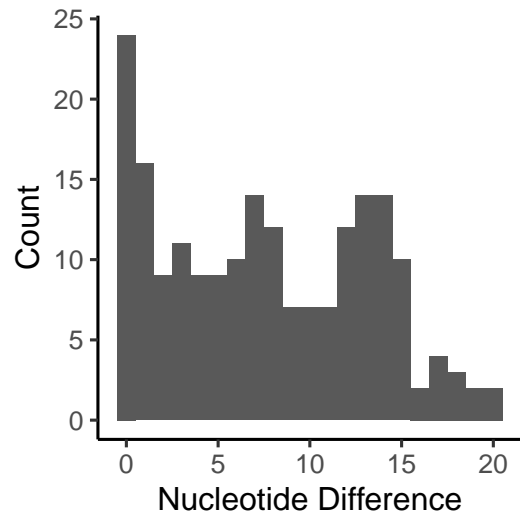
IGHV2-70*15

33 sequences assigned
16 (48.5%) exact matches, in which:
16 unique CDR3
4 unique J



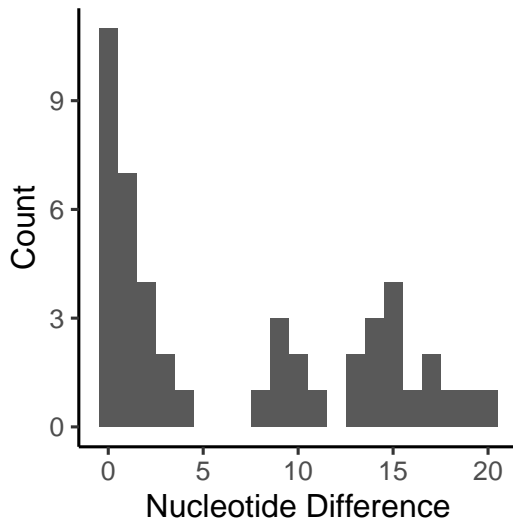
IGHV3-7*01

211 sequences assigned
24 (11.4%) exact matches, in which:
23 unique CDR3
5 unique J



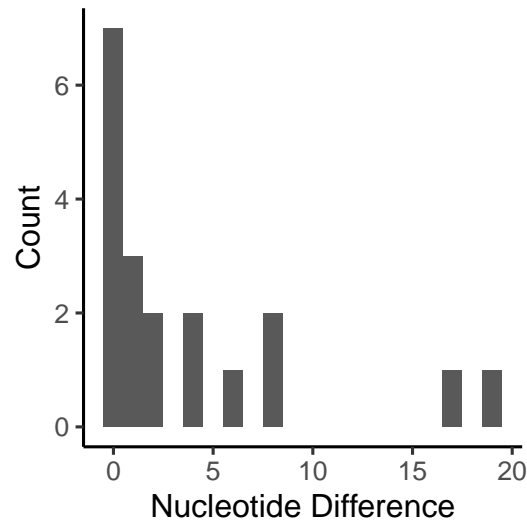
IGHV3-9*01

52 sequences assigned
11 (21.2%) exact matches, in which:
11 unique CDR3
4 unique J



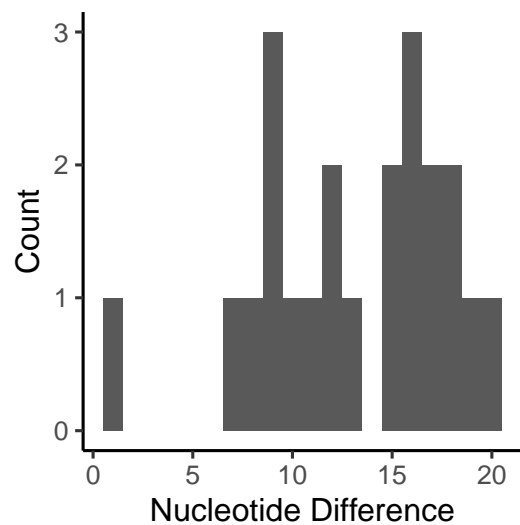
IGHV3-11*06

20 sequences assigned
7 (35%) exact matches, in which:
7 unique CDR3
4 unique J



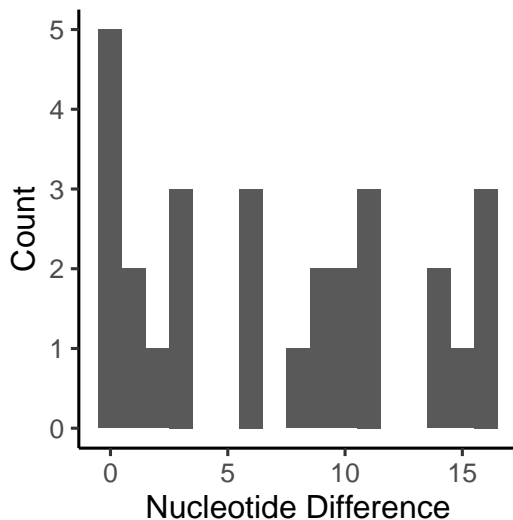
IGHV3-7*03

25 sequences assigned
No exact matches.



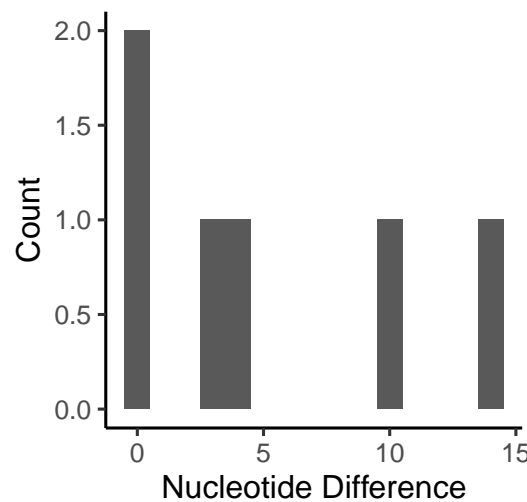
IGHV3-11*01

30 sequences assigned
5 (16.7%) exact matches, in which:
5 unique CDR3
3 unique J



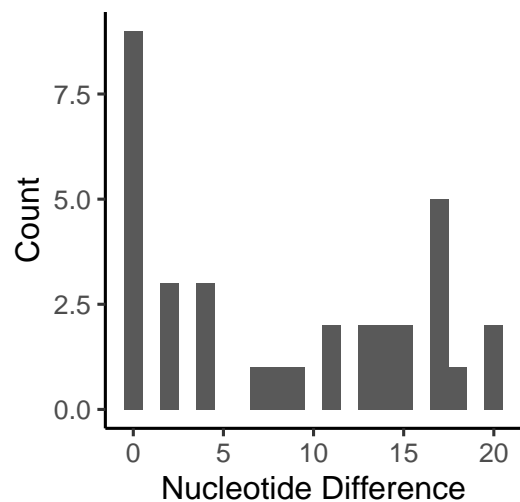
IGHV3-13*01

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



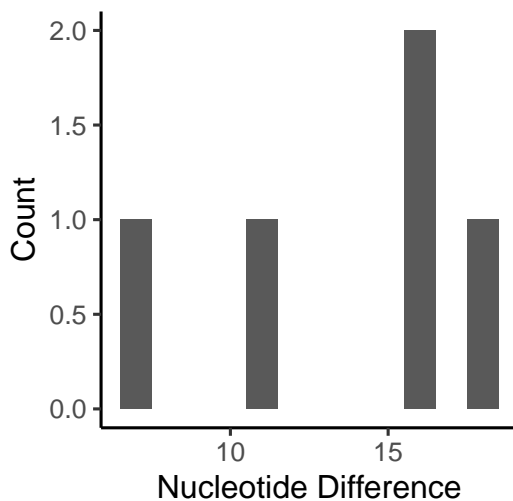
IGHV3-7*05

43 sequences assigned
9 (20.9%) exact matches, in which:
9 unique CDR3
3 unique J



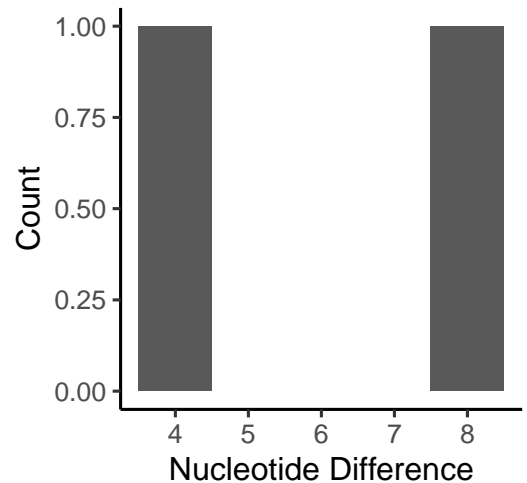
IGHV3-11*04

7 sequences assigned
No exact matches.



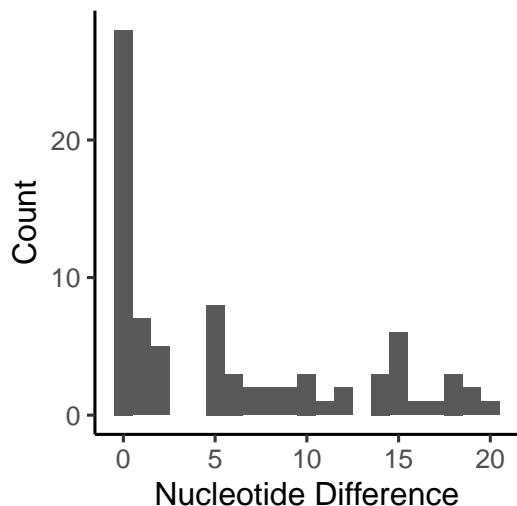
IGHV3-13*05

2 sequences assigned
No exact matches.



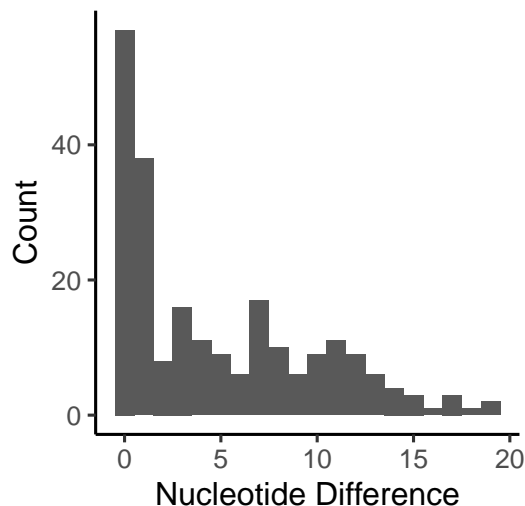
IGHV3-15*01

106 sequences assigned
28 (26.4%) exact matches, in which:
26 unique CDR3
5 unique J



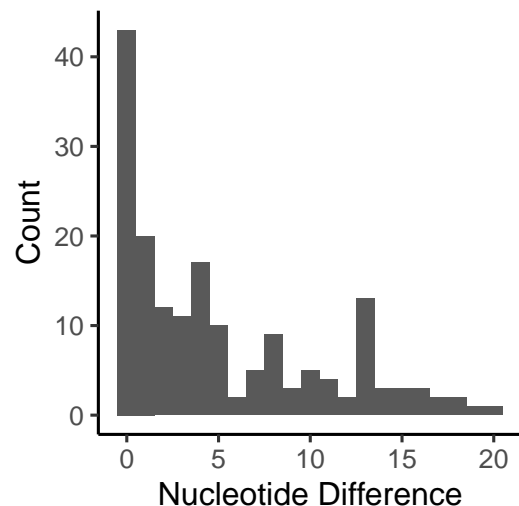
IGHV3-21*01

231 sequences assigned
57 (24.7%) exact matches, in which:
57 unique CDR3
4 unique J



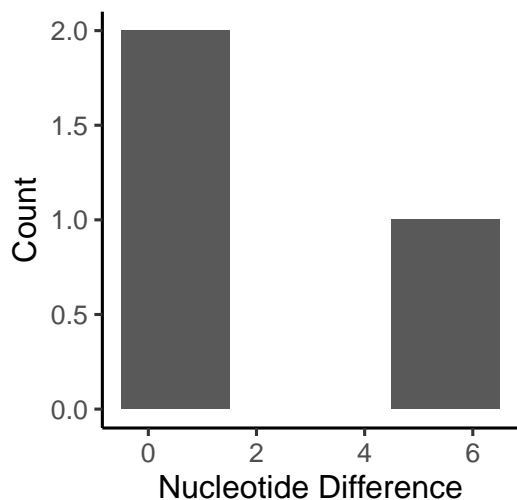
IGHV3-33*01

174 sequences assigned
43 (24.7%) exact matches, in which:
41 unique CDR3
6 unique J



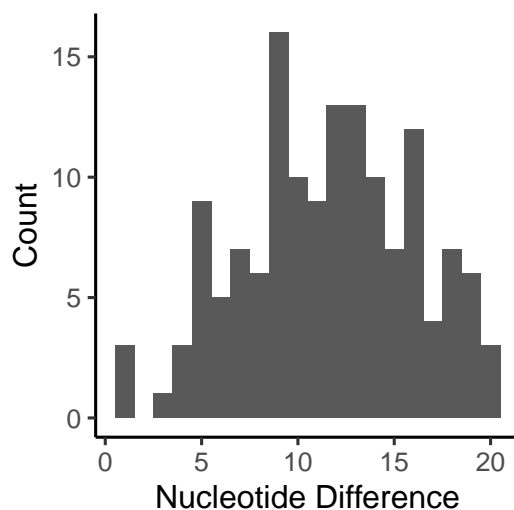
IGHV3-20*01

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



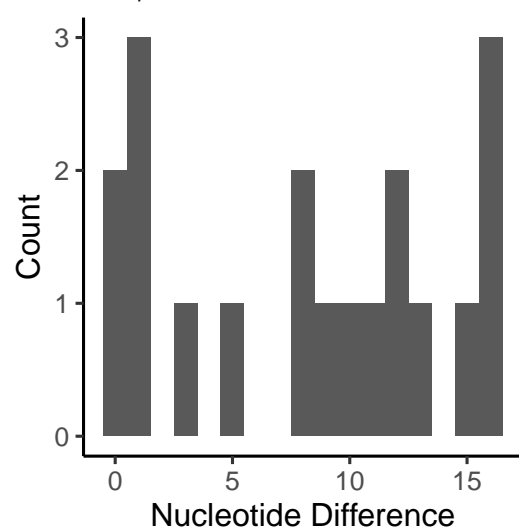
IGHV3-23*04

155 sequences assigned
No exact matches.



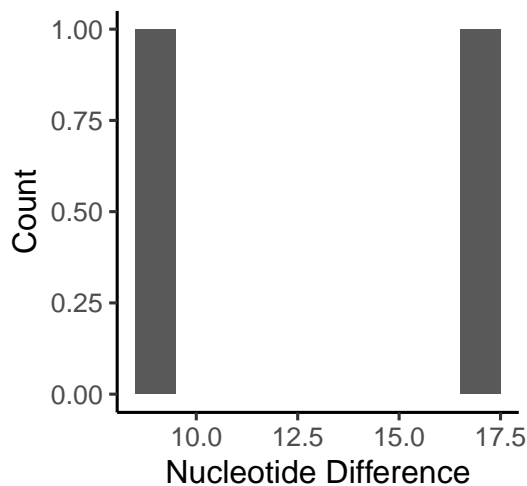
IGHV3-33*05

19 sequences assigned
2 (10.5%) exact matches, in which:
2 unique CDR3
1 unique J



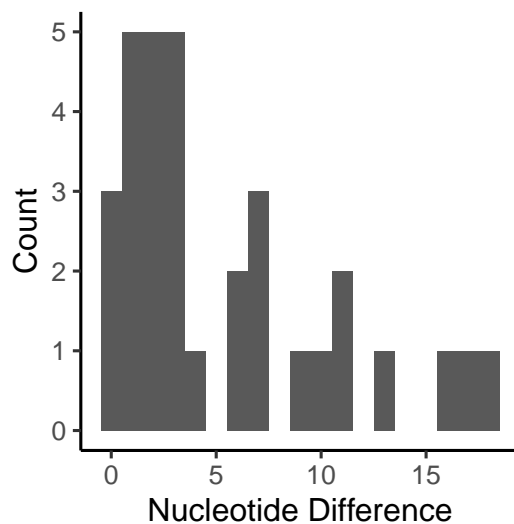
IGHV3-20*04

4 sequences assigned
No exact matches.



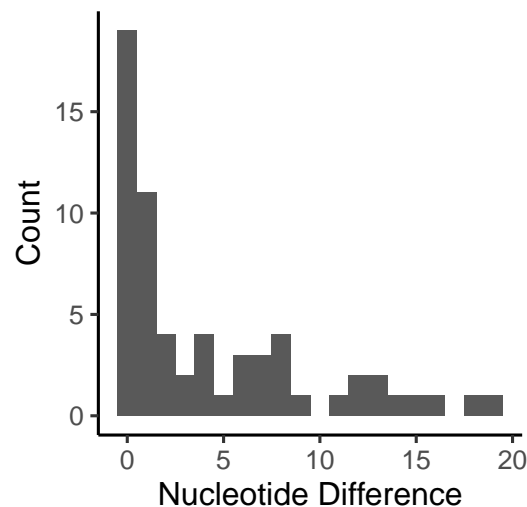
IGHV3-30*03

34 sequences assigned
3 (8.8%) exact matches, in which:
3 unique CDR3
1 unique J



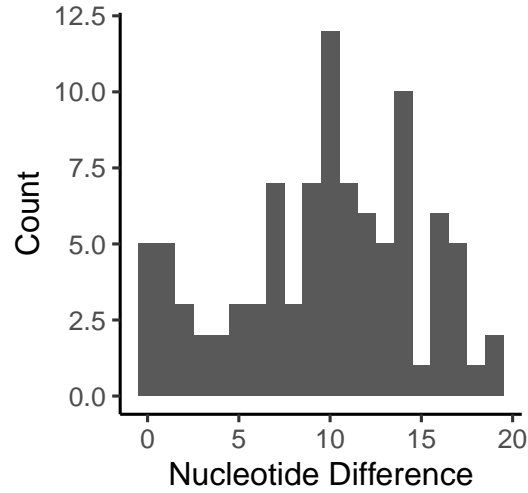
IGHV3-43*02

64 sequences assigned
19 (29.7%) exact matches, in which:
19 unique CDR3
4 unique J



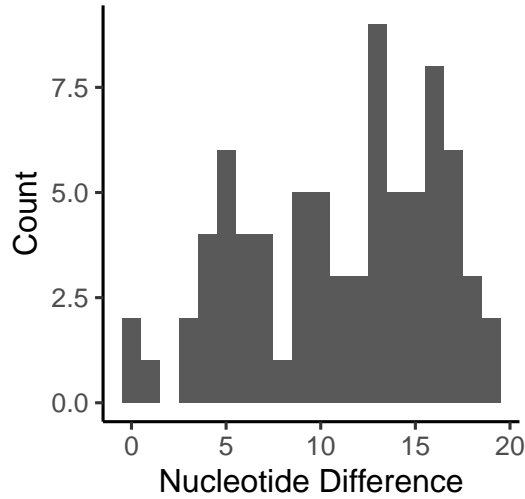
IGHV3-48*01

105 sequences assigned
5 (4.8%) exact matches, in which:
5 unique CDR3
2 unique J



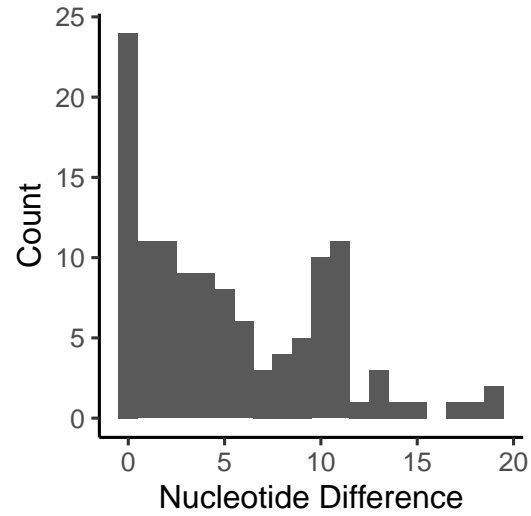
IGHV3-48*04

85 sequences assigned
2 (2.4%) exact matches, in which:
2 unique CDR3
2 unique J



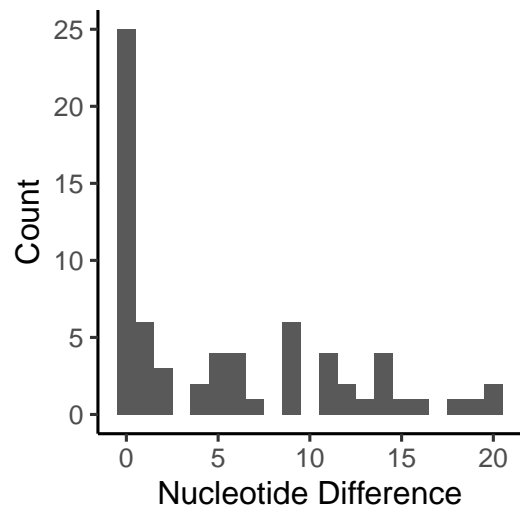
IGHV3-53*01

125 sequences assigned
24 (19.2%) exact matches, in which:
22 unique CDR3
4 unique J



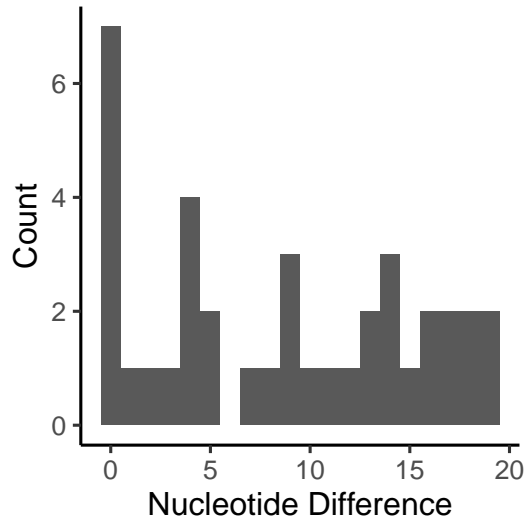
IGHV3-48*02

73 sequences assigned
25 (34.2%) exact matches, in which:
25 unique CDR3
5 unique J



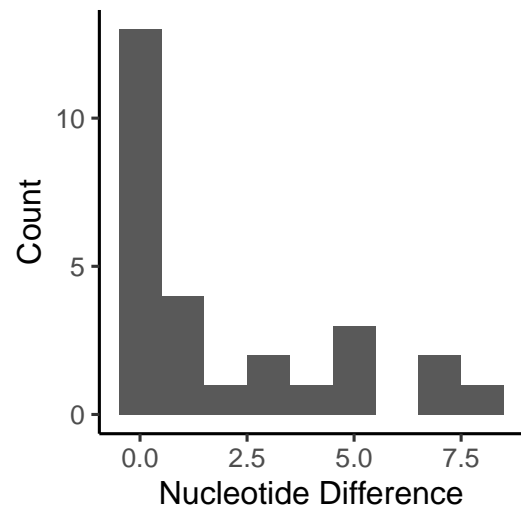
IGHV3-49*04

46 sequences assigned
7 (15.2%) exact matches, in which:
7 unique CDR3
4 unique J



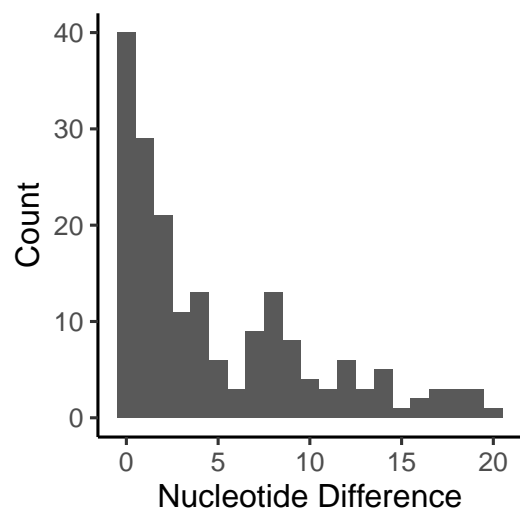
IGHV3-53*04

27 sequences assigned
13 (48.1%) exact matches, in which:
13 unique CDR3
4 unique J



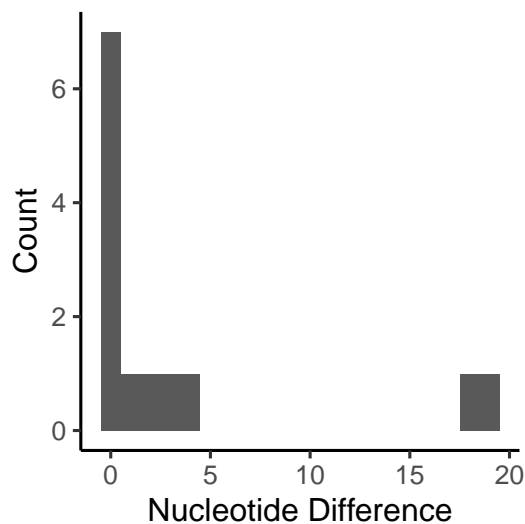
IGHV3-48*03

195 sequences assigned
40 (20.5%) exact matches, in which:
39 unique CDR3
5 unique J



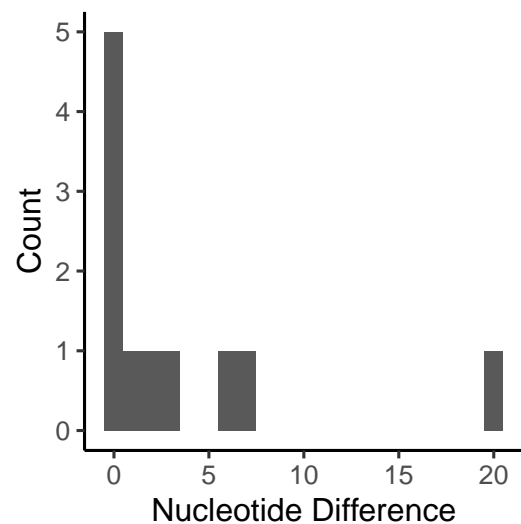
IGHV3-49*05

16 sequences assigned
7 (43.8%) exact matches, in which:
7 unique CDR3
4 unique J



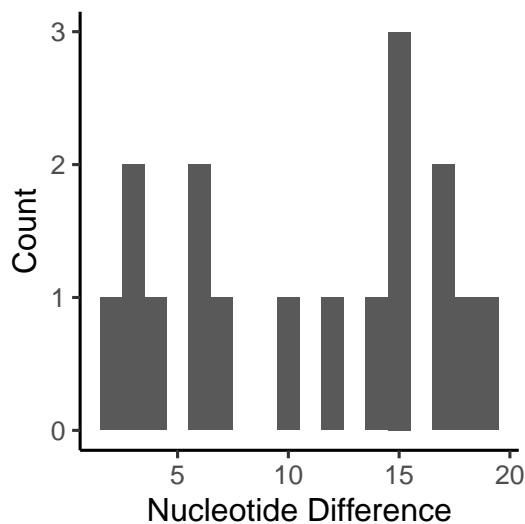
IGHV3-64*01

12 sequences assigned
5 (41.7%) exact matches, in which:
5 unique CDR3
3 unique J



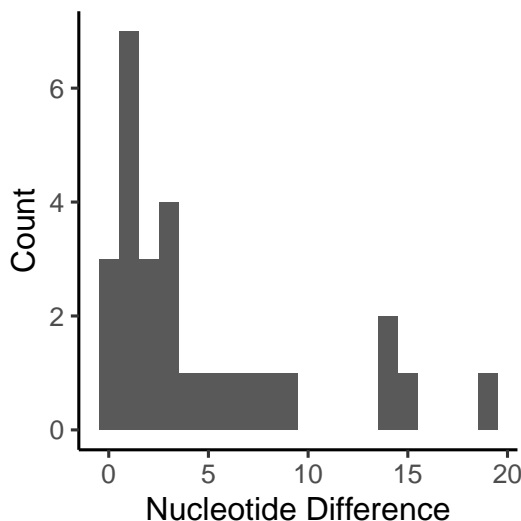
IGHV3-64*04

18 sequences assigned
No exact matches.



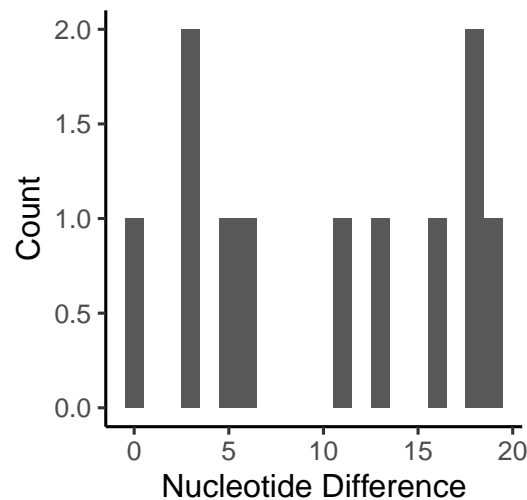
IGHV3-66*03

28 sequences assigned
3 (10.7%) exact matches, in which:
3 unique CDR3
2 unique J



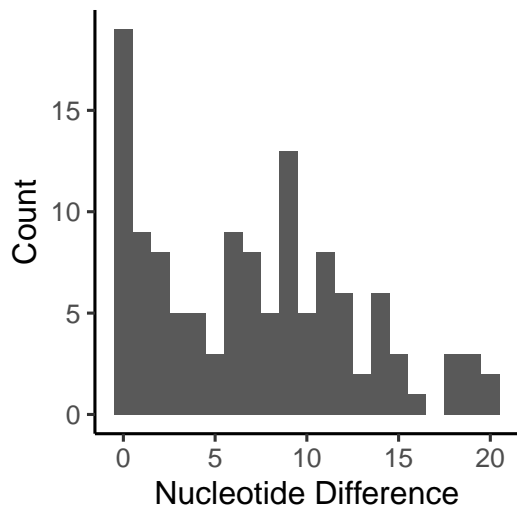
IGHV3-73*01

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



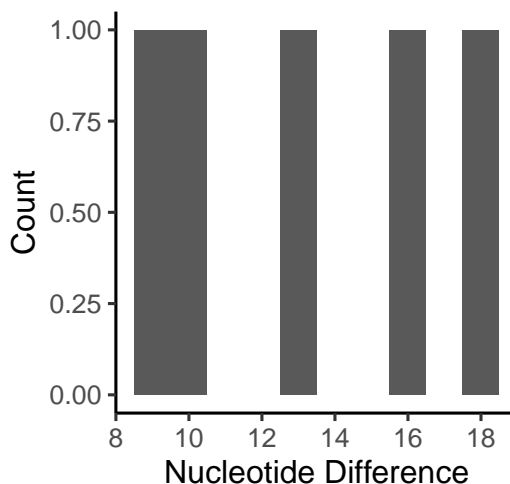
IGHV3-66*01

129 sequences assigned
19 (14.7%) exact matches, in which:
18 unique CDR3
4 unique J



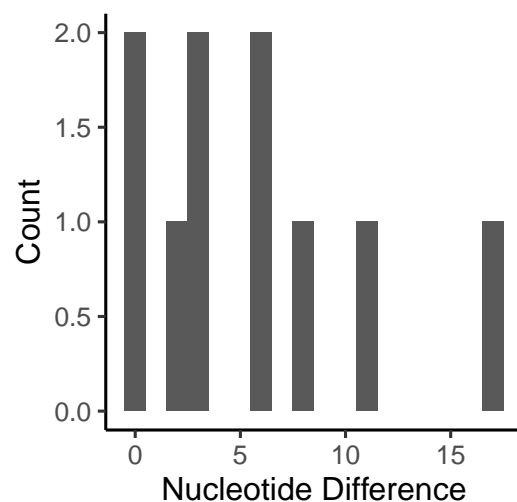
IGHV3-69-1*01

7 sequences assigned
No exact matches.



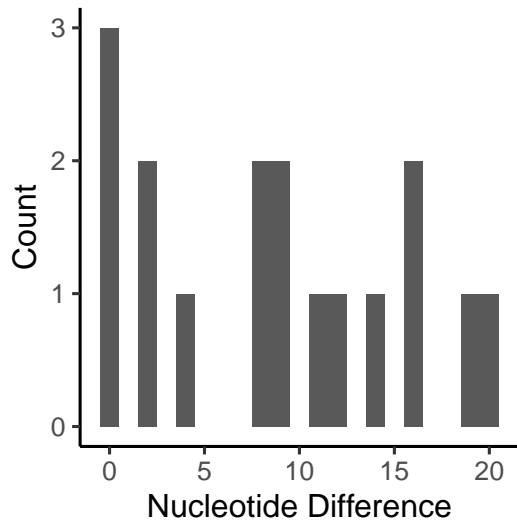
IGHV3-73*02

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
2 unique J



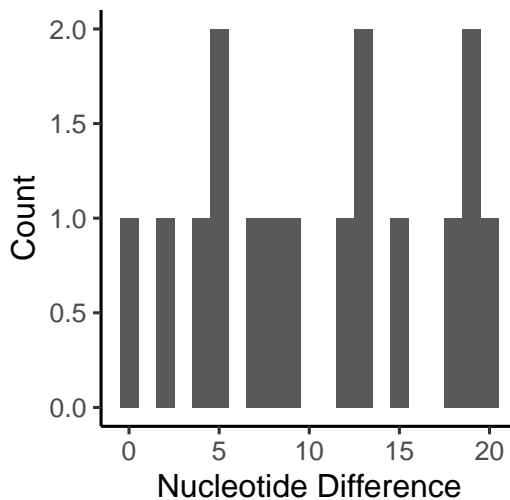
IGHV3-66*02

19 sequences assigned
3 (15.8%) exact matches, in which:
3 unique CDR3
1 unique J



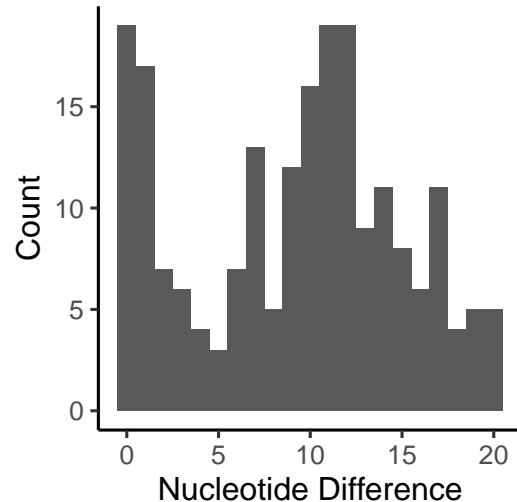
IGHV3-72*01

18 sequences assigned
1 (5.6%) exact matches, in which:
1 unique CDR3
1 unique J



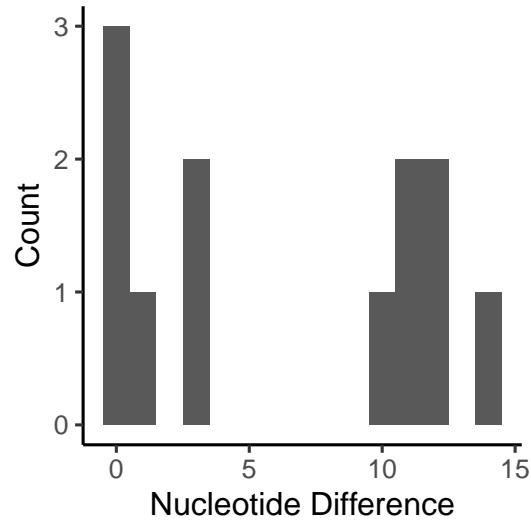
IGHV3-74*01

219 sequences assigned
19 (8.7%) exact matches, in which:
19 unique CDR3
5 unique J



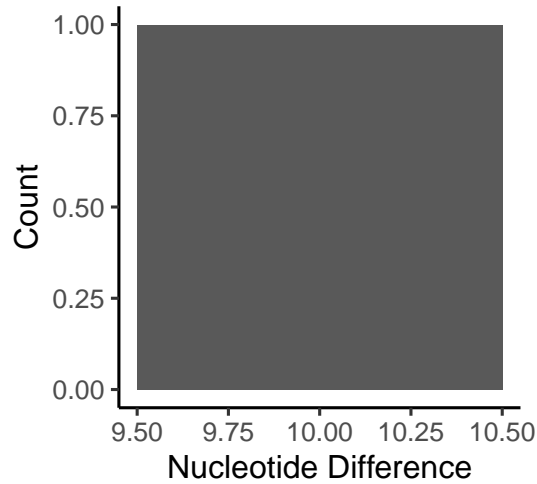
IGHV3-64D*09

14 sequences assigned
3 (21.4%) exact matches, in which:
3 unique CDR3
1 unique J



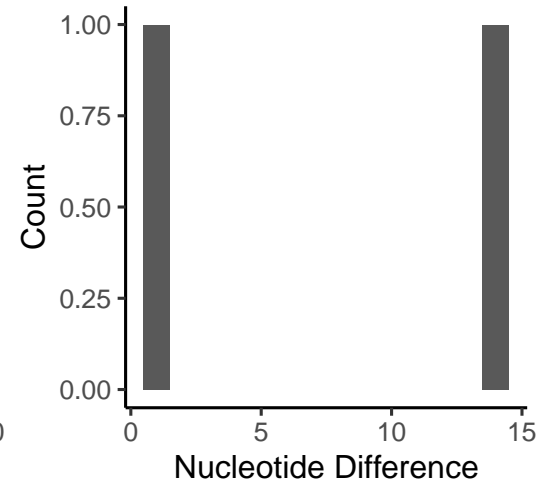
IGHV4-30-4*07

1 sequences assigned
No exact matches.



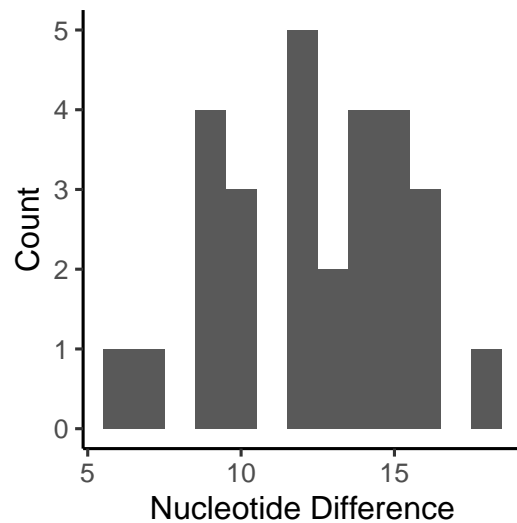
IGHV4-38-2*02

2 sequences assigned
No exact matches.



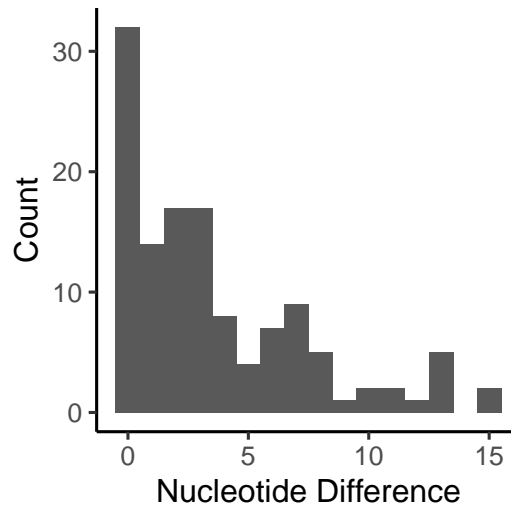
IGHV3-NL1*01

31 sequences assigned
No exact matches.



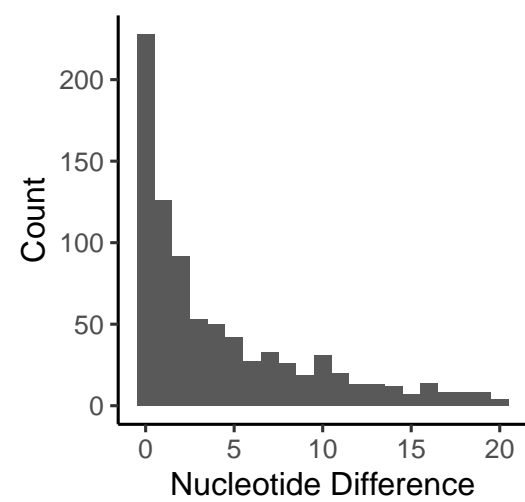
IGHV4-31*03

131 sequences assigned
32 (24.4%) exact matches, in which:
31 unique CDR3
5 unique J



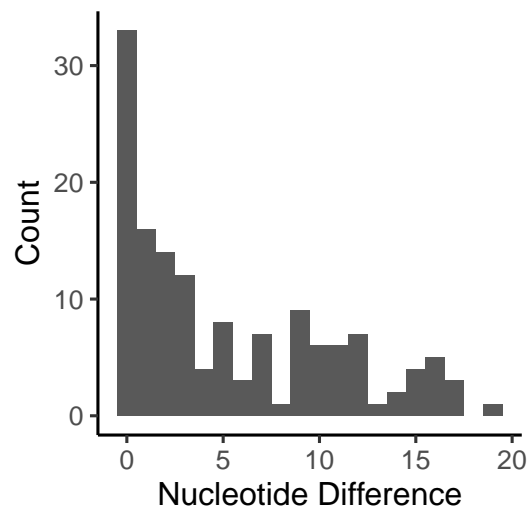
IGHV4-39*01

871 sequences assigned
228 (26.2%) exact matches, in which:
226 unique CDR3
6 unique J



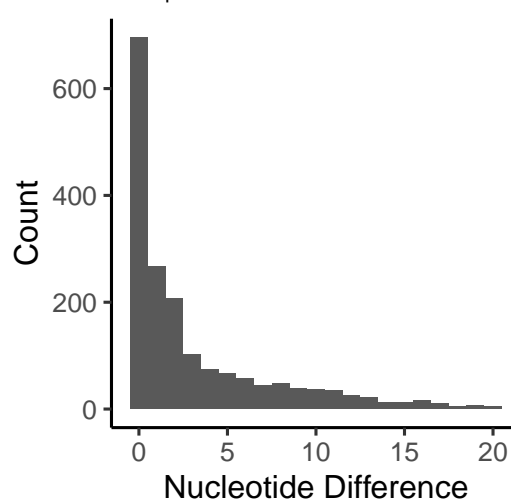
IGHV4-4*07

159 sequences assigned
33 (20.8%) exact matches, in which:
33 unique CDR3
5 unique J



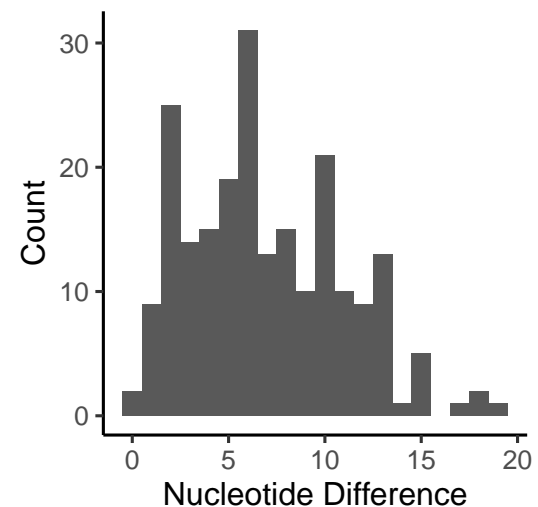
IGHV4-34*01

1842 sequences assigned
696 (37.8%) exact matches, in which:
692 unique CDR3
6 unique J



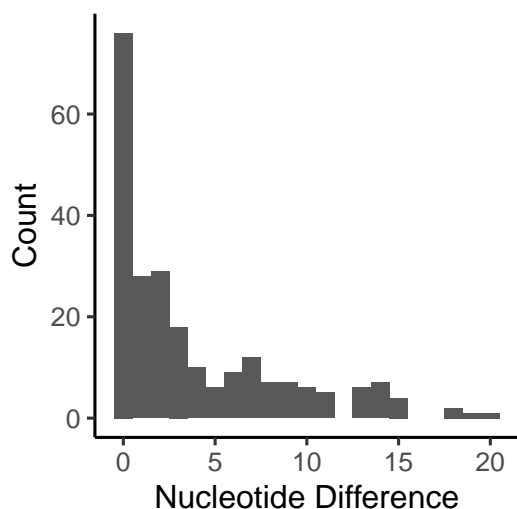
IGHV4-39*07

219 sequences assigned
2 (0.9%) exact matches, in which:
2 unique CDR3
2 unique J



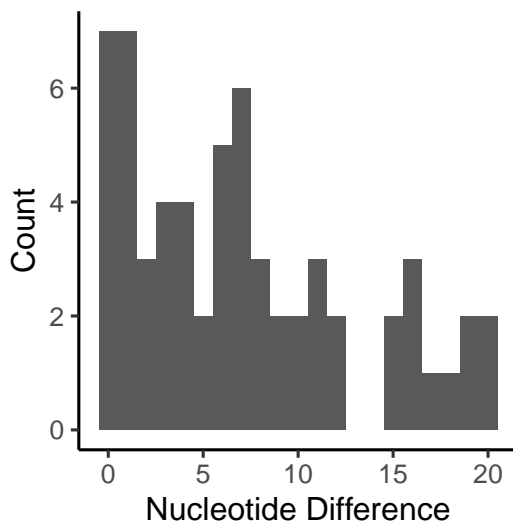
IGHV4-59*01

237 sequences assigned
76 (32.1%) exact matches, in which:
76 unique CDR3
6 unique J



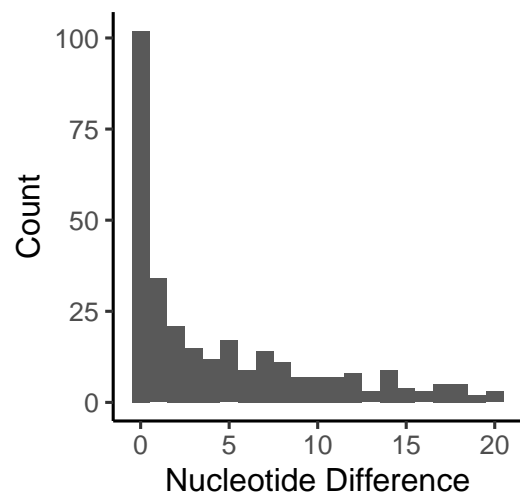
IGHV4-61*01

67 sequences assigned
7 (10.4%) exact matches, in which:
7 unique CDR3
3 unique J



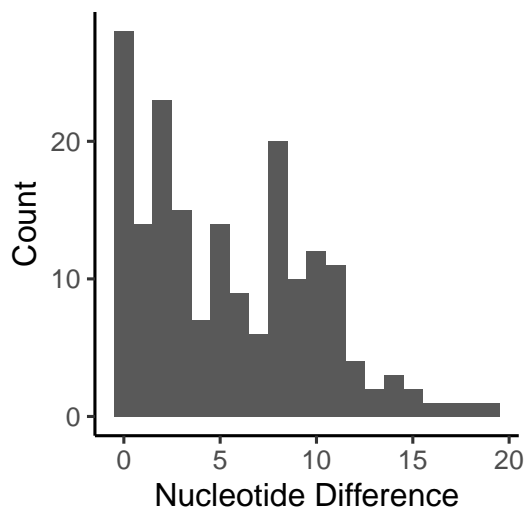
IGHV5-51*01

310 sequences assigned
102 (32.9%) exact matches, in which:
102 unique CDR3
6 unique J



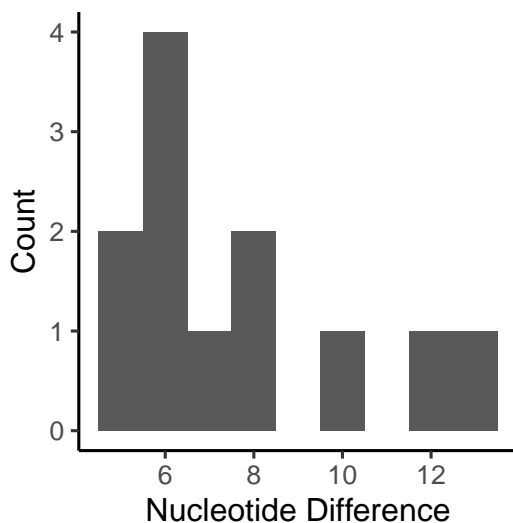
IGHV4-59*08

193 sequences assigned
28 (14.5%) exact matches, in which:
28 unique CDR3
6 unique J



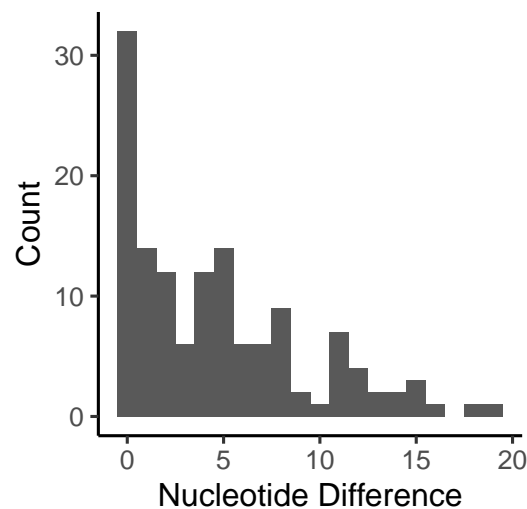
IGHV4-61*08

13 sequences assigned
No exact matches.



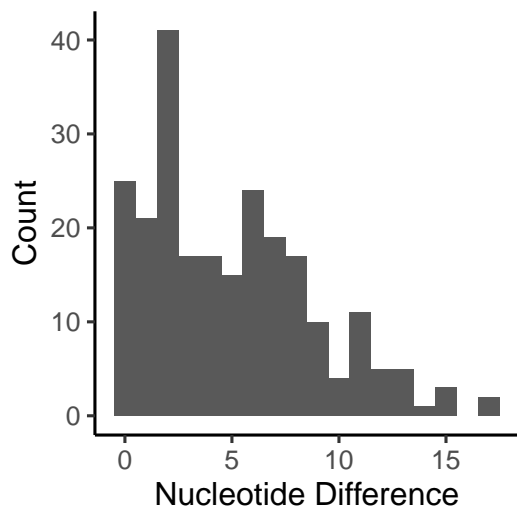
IGHV6-1*01

142 sequences assigned
32 (22.5%) exact matches, in which:
32 unique CDR3
4 unique J



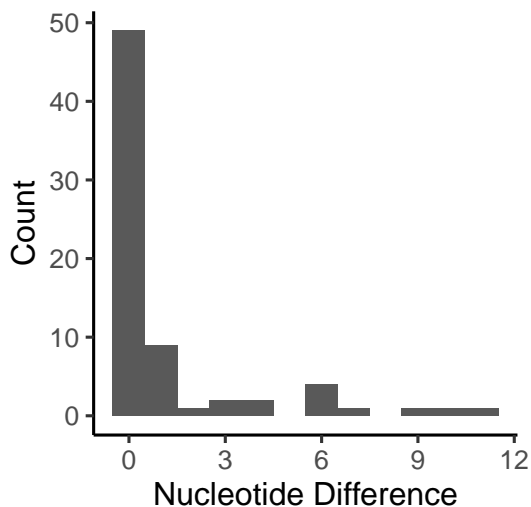
IGHV4-59*12

244 sequences assigned
25 (10.2%) exact matches, in which:
25 unique CDR3
4 unique J



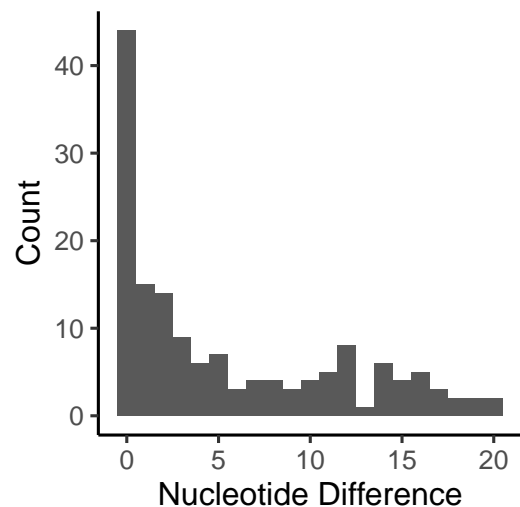
IGHV5-10-1*03

78 sequences assigned
49 (62.8%) exact matches, in which:
49 unique CDR3
5 unique J



IGHV7-4-1*02

156 sequences assigned
44 (28.2%) exact matches, in which:
44 unique CDR3
4 unique J





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–39*07_C288A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.