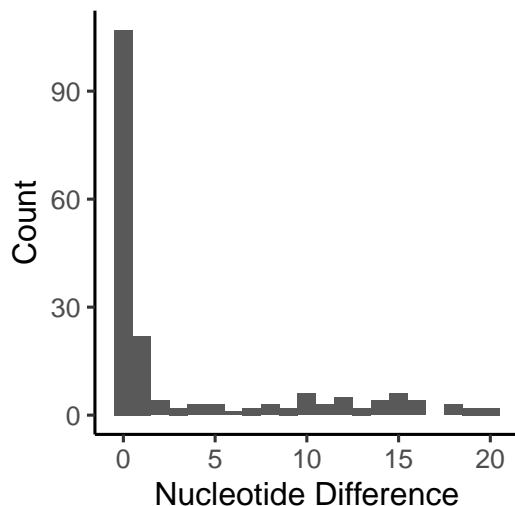


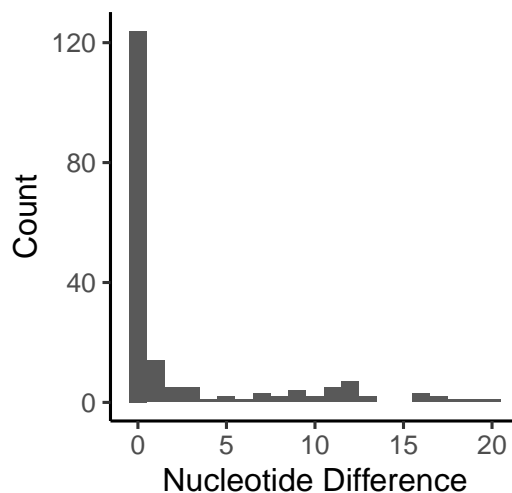
IGHV1-2*02

210 sequences assigned
107 (51%) exact matches, in which:
106 unique CDR3
6 unique J



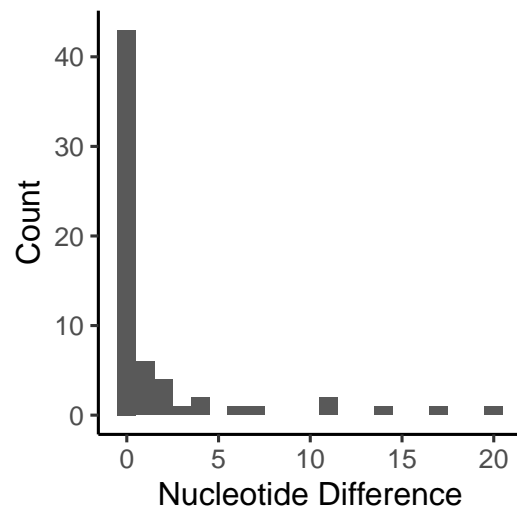
IGHV1-8*01

191 sequences assigned
124 (64.9%) exact matches, in which:
124 unique CDR3
5 unique J



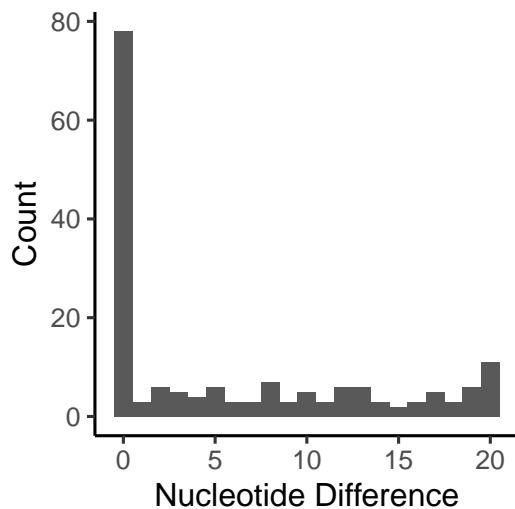
IGHV1-24*01

65 sequences assigned
43 (66.2%) exact matches, in which:
43 unique CDR3
5 unique J



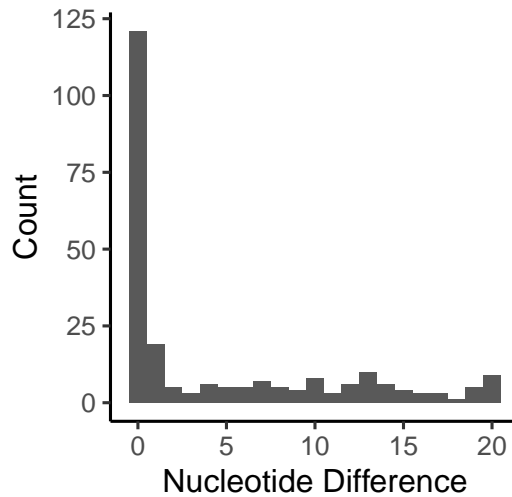
IGHV1-2*06

185 sequences assigned
78 (42.2%) exact matches, in which:
78 unique CDR3
6 unique J



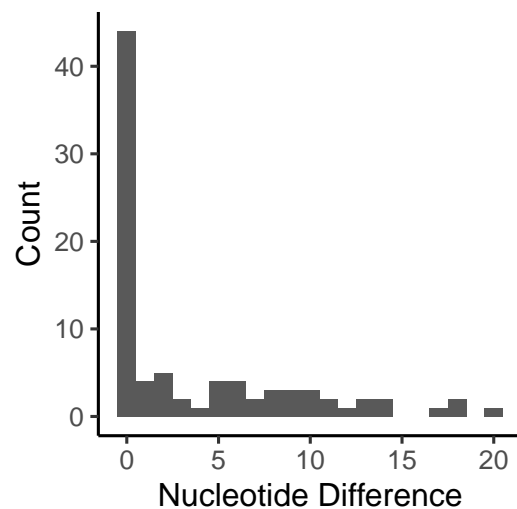
IGHV1-18*01

266 sequences assigned
121 (45.5%) exact matches, in which:
121 unique CDR3
6 unique J



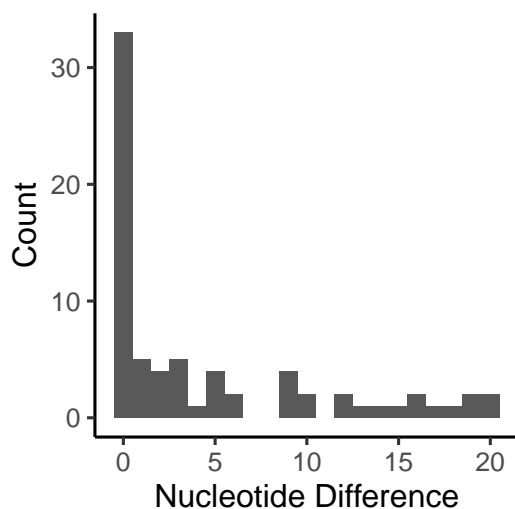
IGHV1-46*01

95 sequences assigned
44 (46.3%) exact matches, in which:
44 unique CDR3
4 unique J



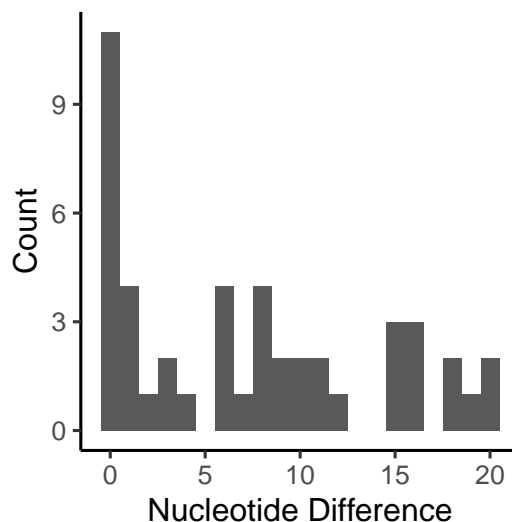
IGHV1-3*01_05

78 sequences assigned
33 (42.3%) exact matches, in which:
33 unique CDR3
5 unique J



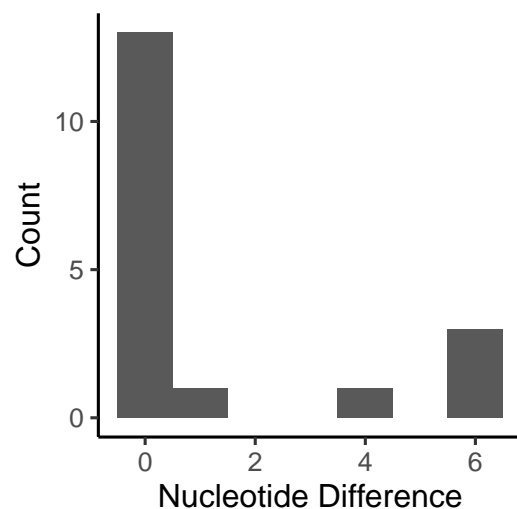
IGHV1-18*04

48 sequences assigned
11 (22.9%) exact matches, in which:
11 unique CDR3
4 unique J



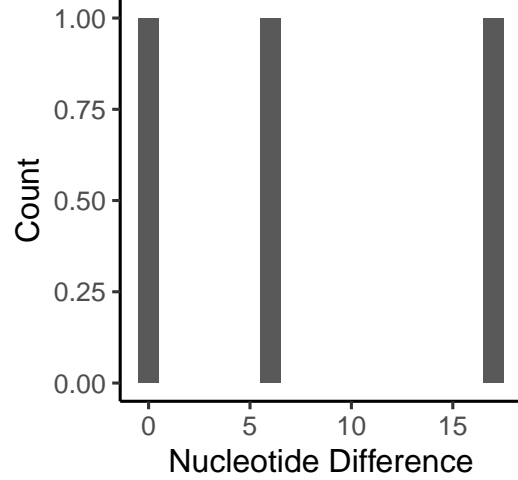
IGHV1-58*02

19 sequences assigned
13 (68.4%) exact matches, in which:
13 unique CDR3
4 unique J



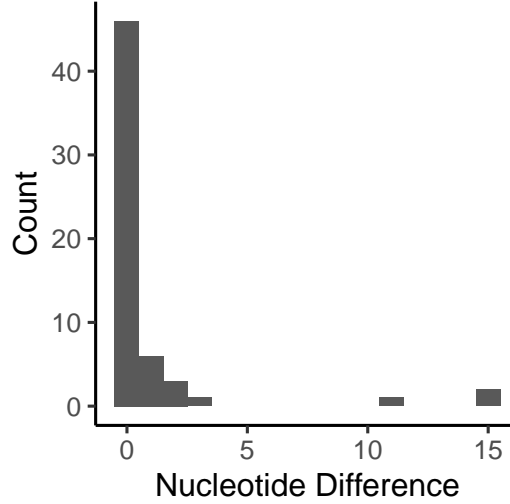
IGHV1-69-2*01

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



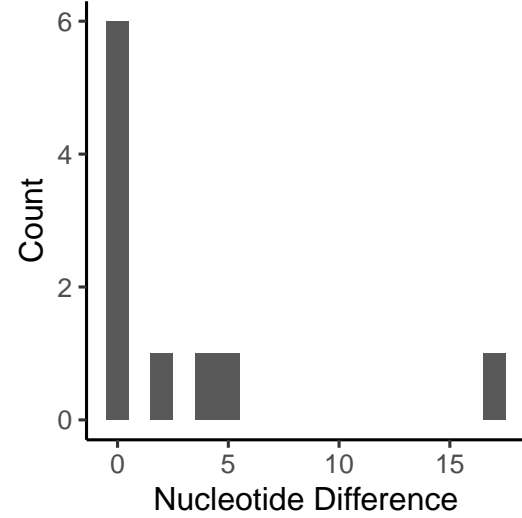
IGHV1-69*04_09_G112A

72 sequences assigned
46 (63.9%) exact matches, in which:
46 unique CDR3
6 unique J



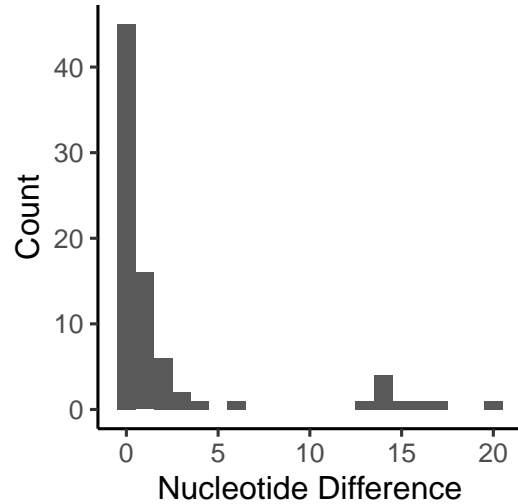
IGHV2-70*01

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



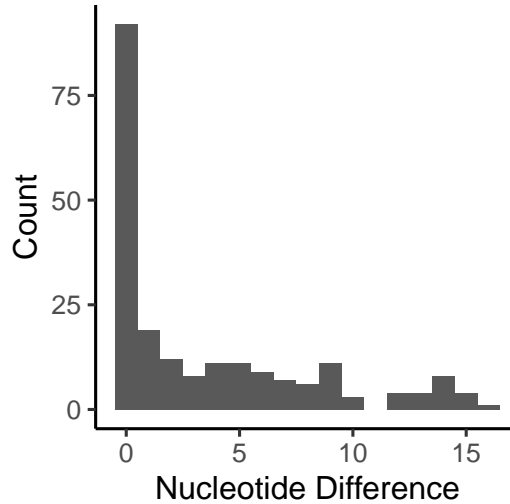
IGHV1-69*01_12_13

80 sequences assigned
45 (56.2%) exact matches, in which:
45 unique CDR3
4 unique J



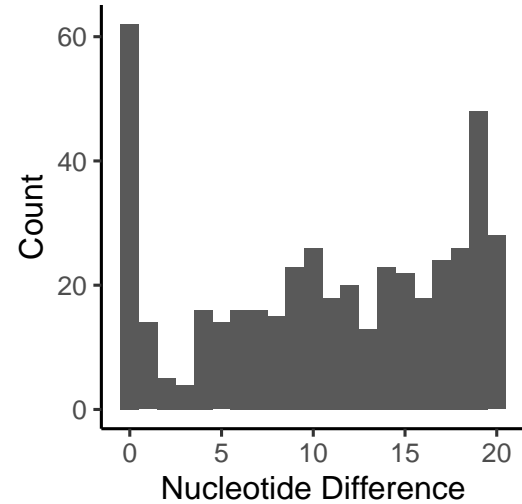
IGHV2-5*02

227 sequences assigned
92 (40.5%) exact matches, in which:
92 unique CDR3
5 unique J



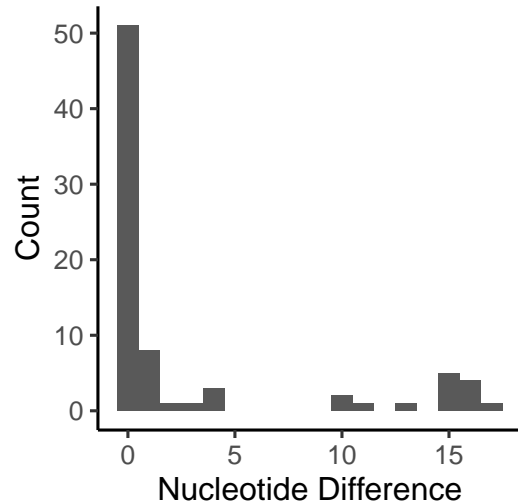
IGHV3-7*01

576 sequences assigned
62 (10.8%) exact matches, in which:
62 unique CDR3
5 unique J



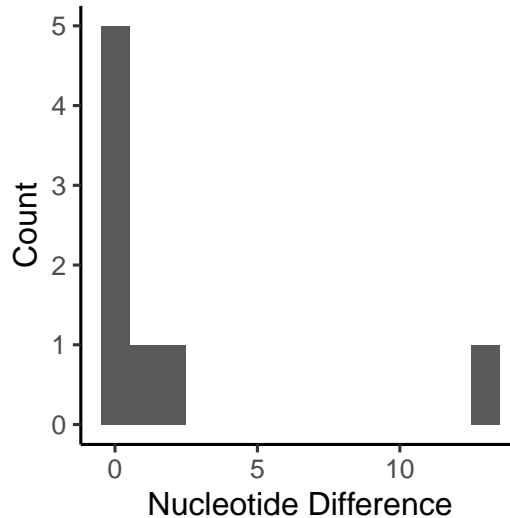
IGHV1-69*04_09_C184T

80 sequences assigned
51 (63.8%) exact matches, in which:
51 unique CDR3
4 unique J



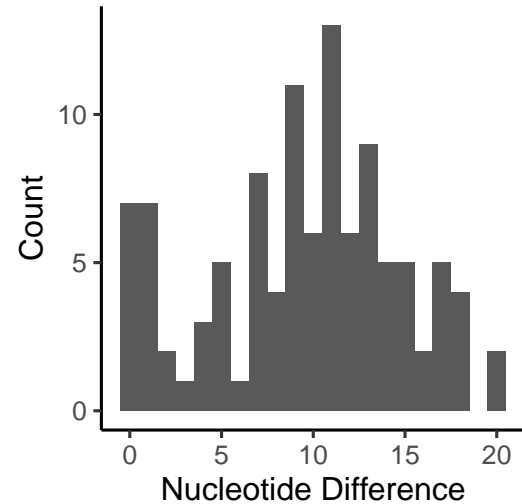
IGHV2-26*01

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



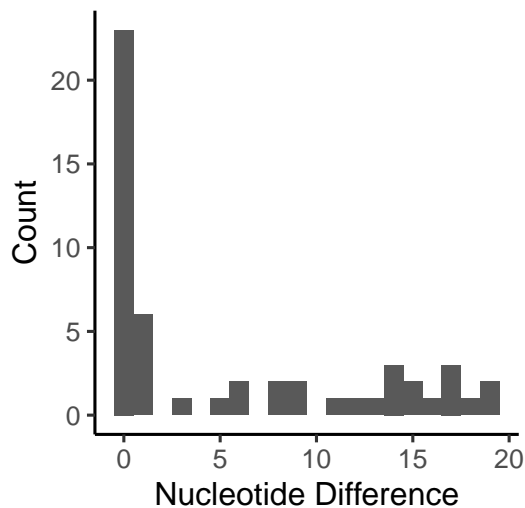
IGHV3-7*03

116 sequences assigned
7 (6%) exact matches, in which:
7 unique CDR3
4 unique J



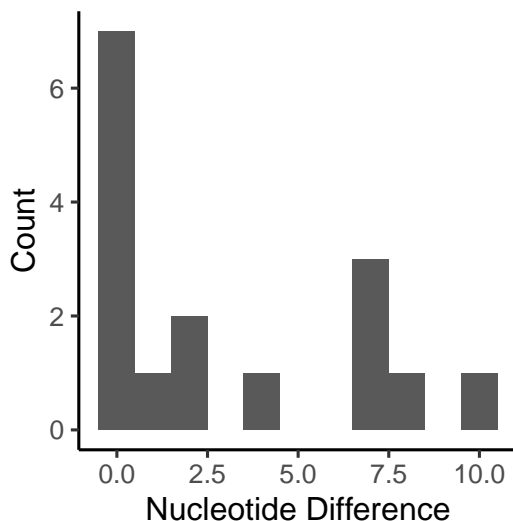
IGHV3-9*01

58 sequences assigned
23 (39.7%) exact matches, in which:
23 unique CDR3
5 unique J



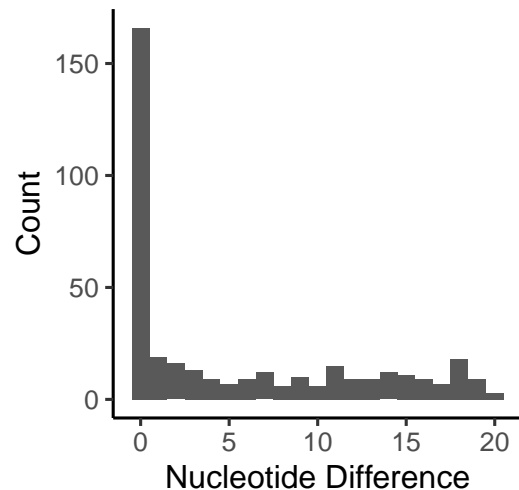
IGHV3-13*01

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



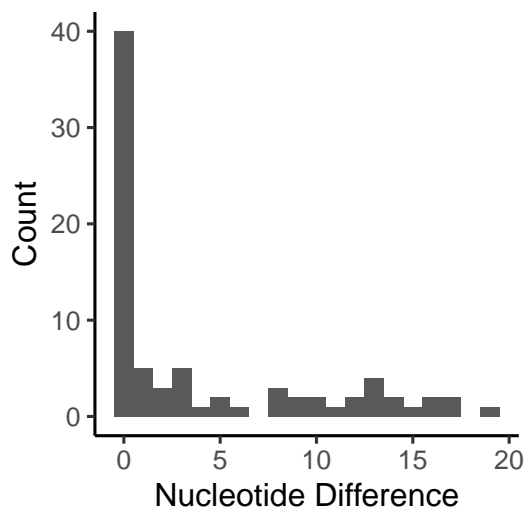
IGHV3-21*01_02

410 sequences assigned
166 (40.5%) exact matches, in which:
166 unique CDR3
6 unique J



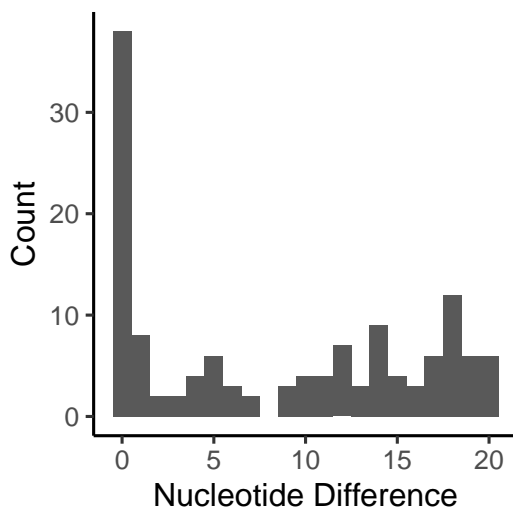
IGHV3-11*01

81 sequences assigned
40 (49.4%) exact matches, in which:
40 unique CDR3
5 unique J



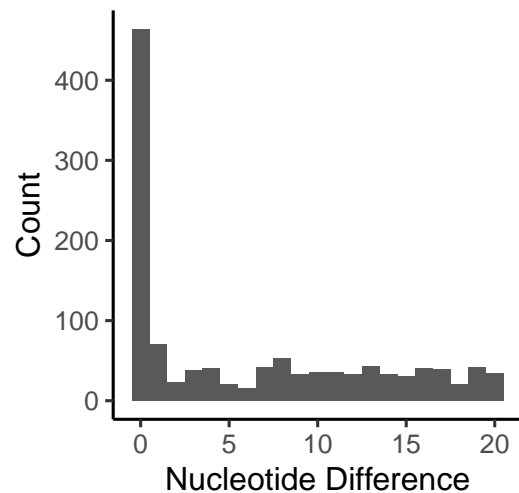
IGHV3-15*01_02

146 sequences assigned
38 (26%) exact matches, in which:
38 unique CDR3
4 unique J



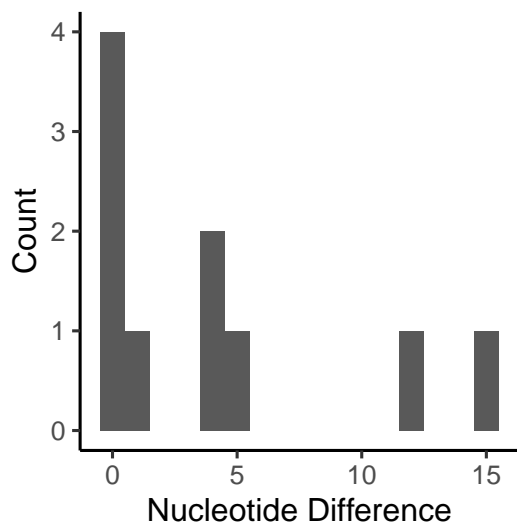
IGHV3-23*01_04

1339 sequences assigned
464 (34.7%) exact matches, in which:
463 unique CDR3
6 unique J



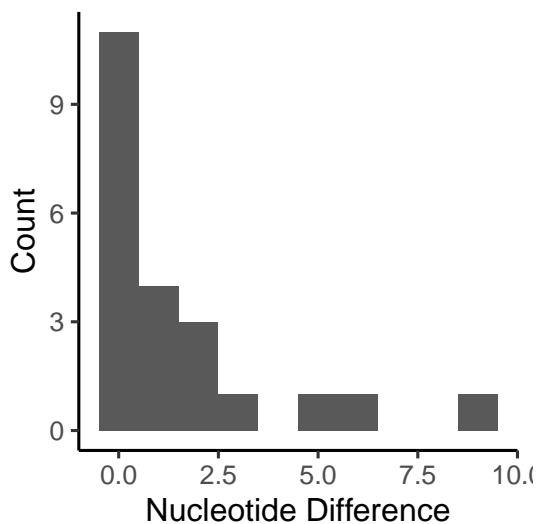
IGHV3-11*06

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



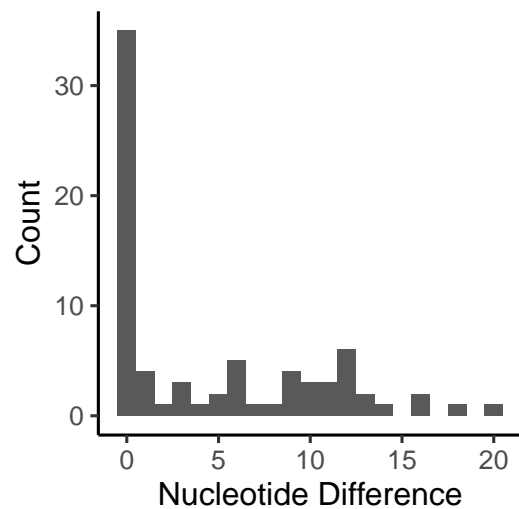
IGHV3-20*01_02

23 sequences assigned
11 (47.8%) exact matches, in which:
11 unique CDR3
3 unique J



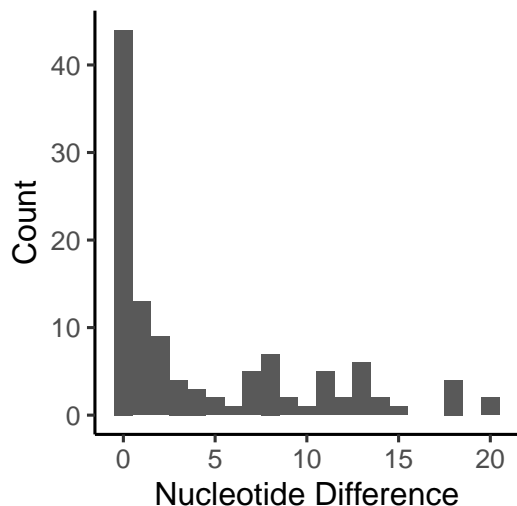
IGHV3-30-3*01

82 sequences assigned
35 (42.7%) exact matches, in which:
34 unique CDR3
4 unique J



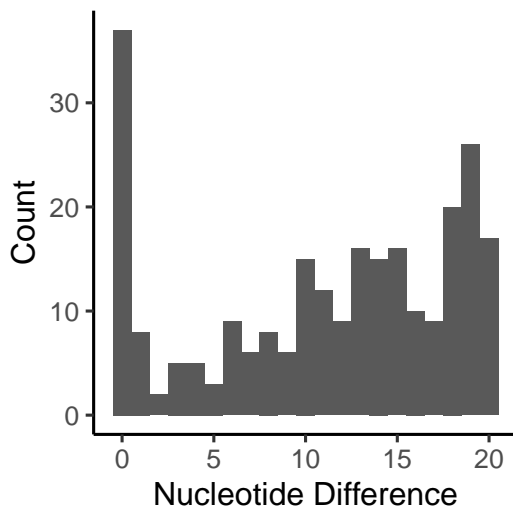
IGHV3-33*01

118 sequences assigned
44 (37.3%) exact matches, in which:
44 unique CDR3
6 unique J



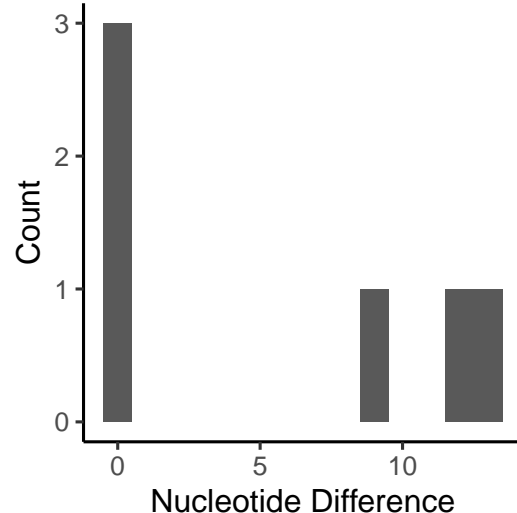
IGHV3-48*01

314 sequences assigned
37 (11.8%) exact matches, in which:
36 unique CDR3
5 unique J



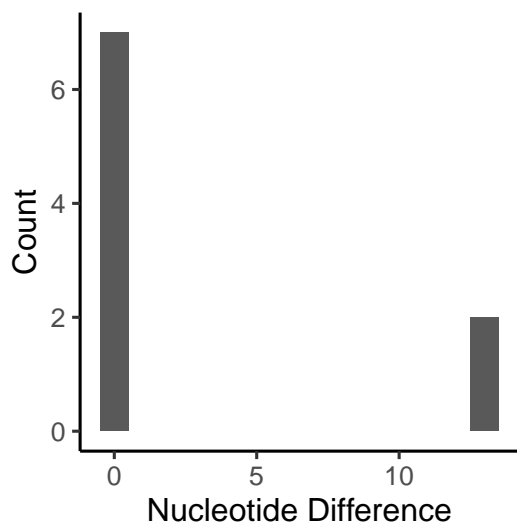
IGHV3-49*04

8 sequences assigned
3 (37.5%) exact matches, in which:
3 unique CDR3
2 unique J



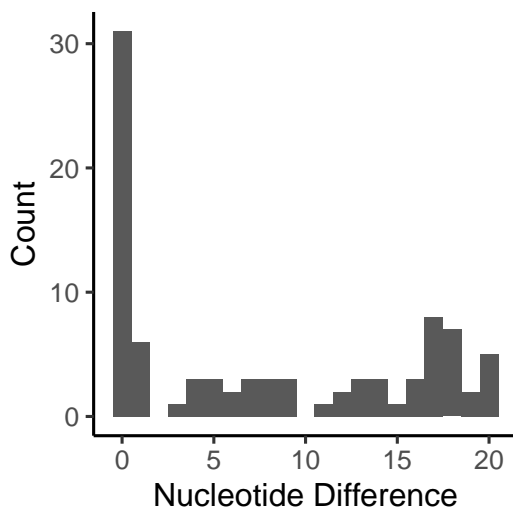
IGHV3-43*01

9 sequences assigned
7 (77.8%) exact matches, in which:
6 unique CDR3
3 unique J



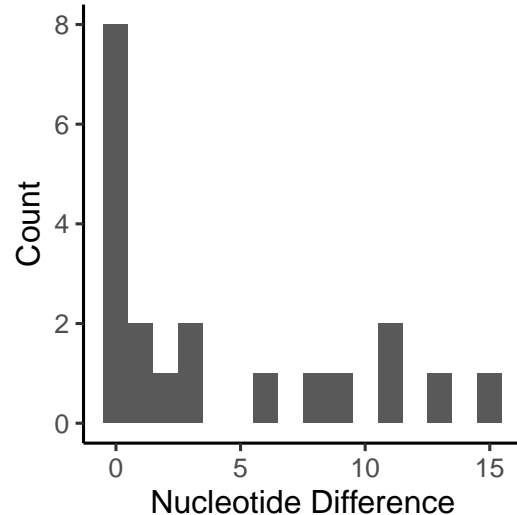
IGHV3-48*02

130 sequences assigned
31 (23.8%) exact matches, in which:
30 unique CDR3
5 unique J



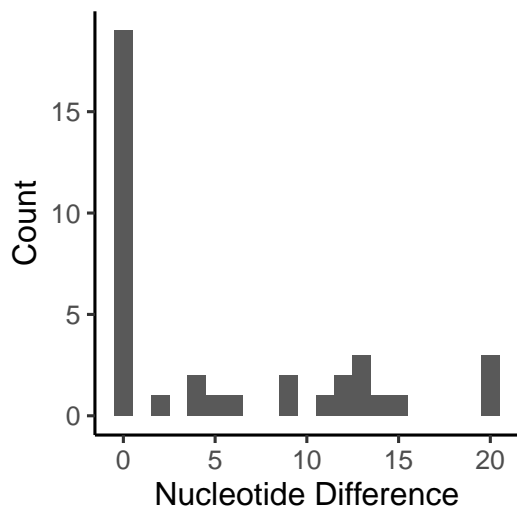
IGHV3-49*03_05

20 sequences assigned
8 (40%) exact matches, in which:
8 unique CDR3
2 unique J



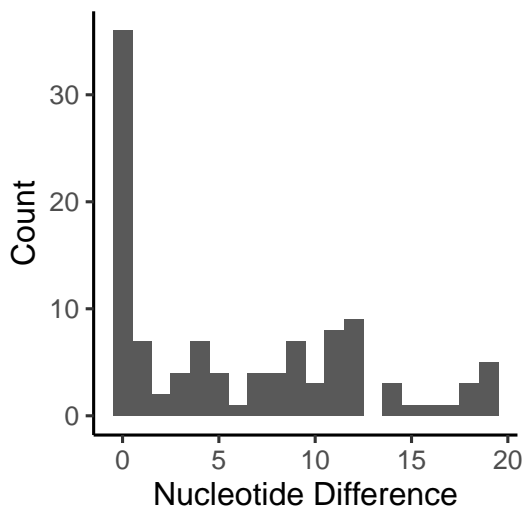
IGHV3-43*02

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



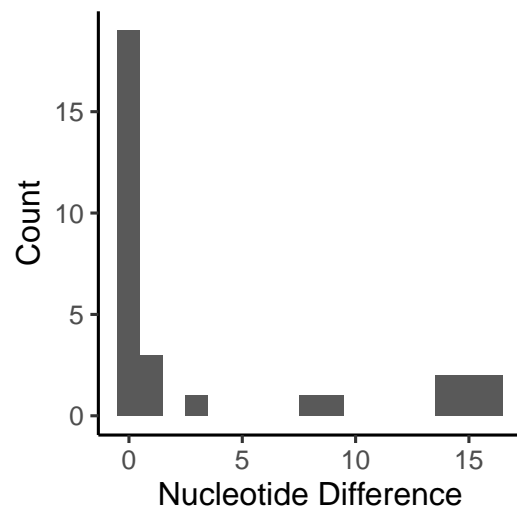
IGHV3-48*03

126 sequences assigned
36 (28.6%) exact matches, in which:
35 unique CDR3
5 unique J



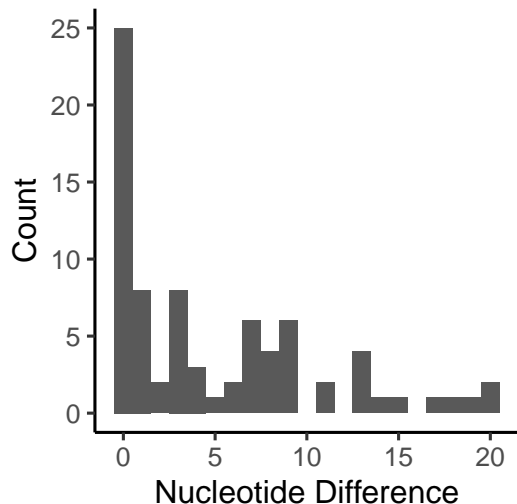
IGHV3-53*04

35 sequences assigned
19 (54.3%) exact matches, in which:
19 unique CDR3
4 unique J



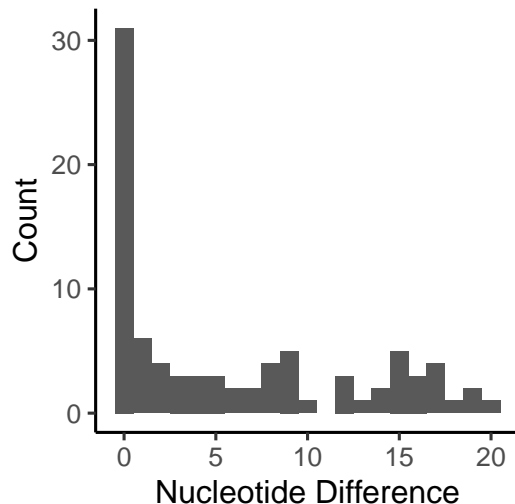
IGHV3-53*01_02

81 sequences assigned
25 (30.9%) exact matches, in which:
25 unique CDR3
5 unique J



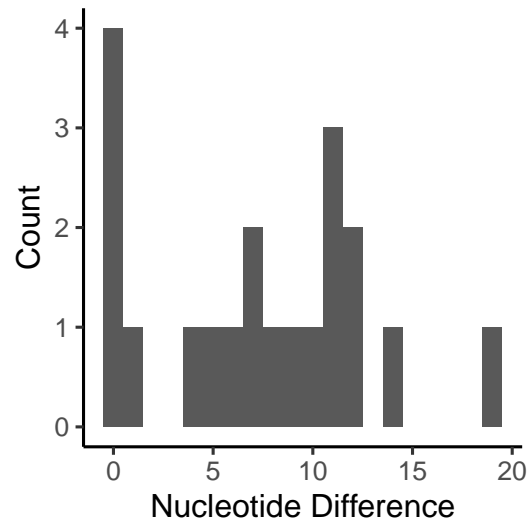
IGHV3-66*02

104 sequences assigned
31 (29.8%) exact matches, in which:
30 unique CDR3
5 unique J



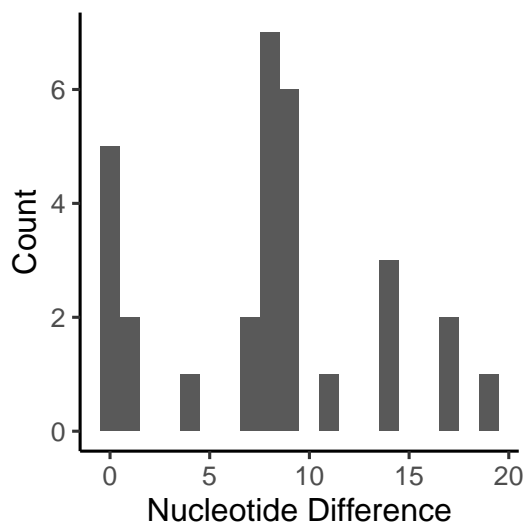
IGHV3-73*01_02

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



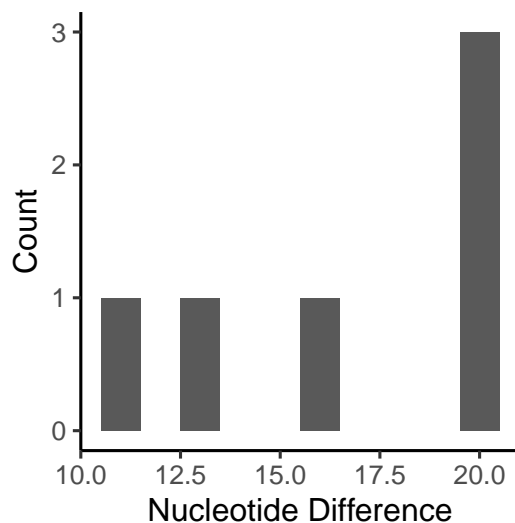
IGHV3-64*01

31 sequences assigned
5 (16.1%) exact matches, in which:
5 unique CDR3
4 unique J



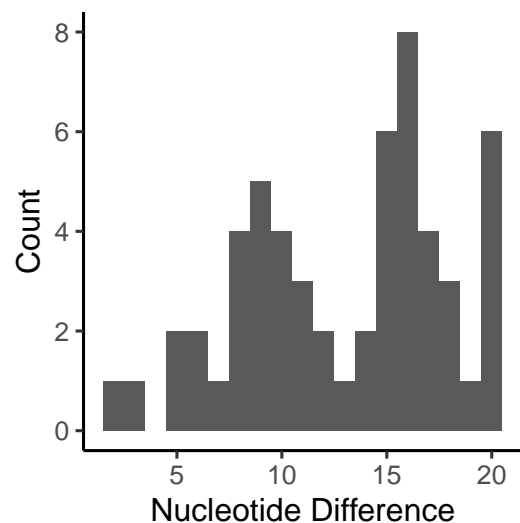
IGHV3-69-1*01

34 sequences assigned
No exact matches.



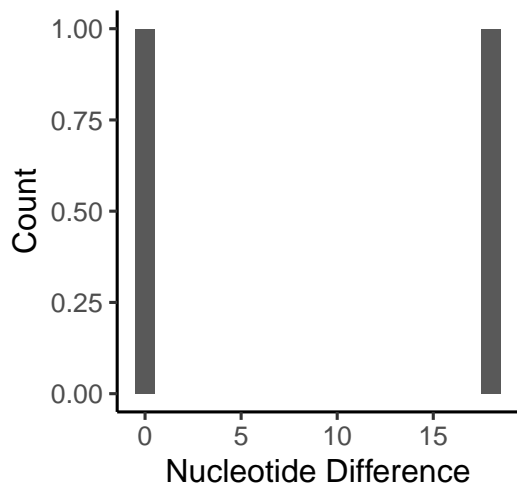
IGHV3-74*03

76 sequences assigned
No exact matches.



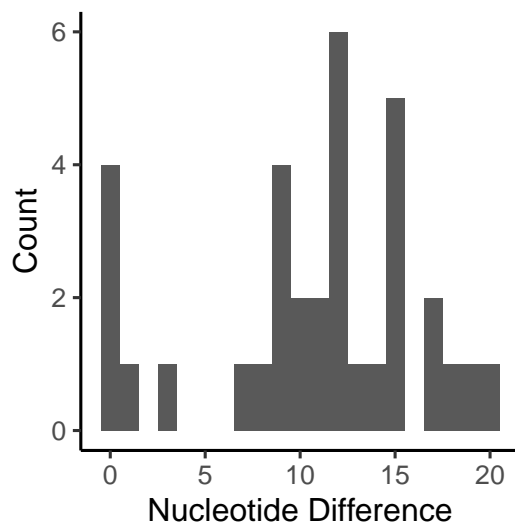
IGHV3-64*02_07

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



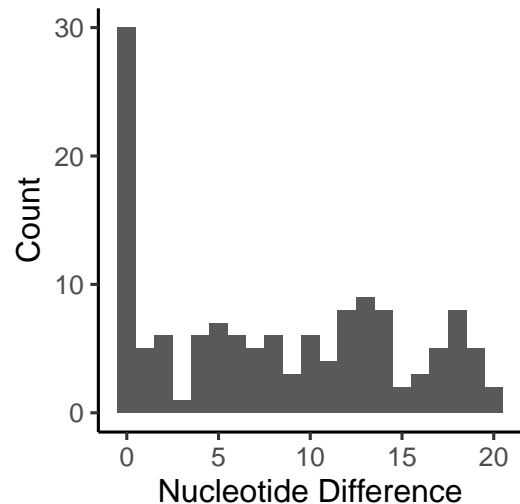
IGHV3-72*01

41 sequences assigned
4 (9.8%) exact matches, in which:
4 unique CDR3
3 unique J



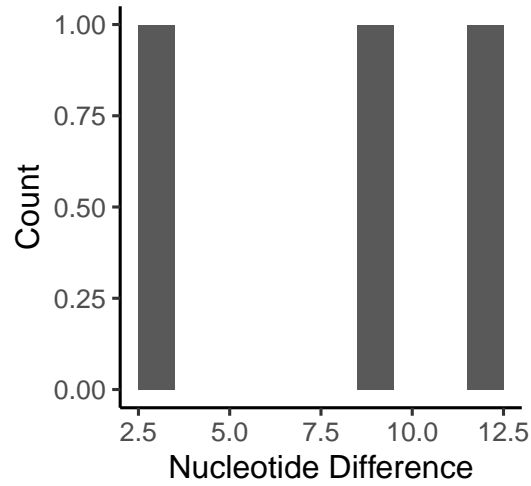
IGHV3-74*01_02

152 sequences assigned
30 (19.7%) exact matches, in which:
30 unique CDR3
4 unique J



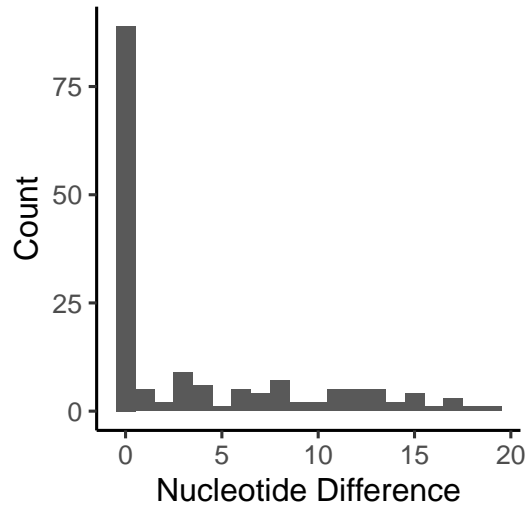
IGHV3-43D*04

3 sequences assigned
No exact matches.



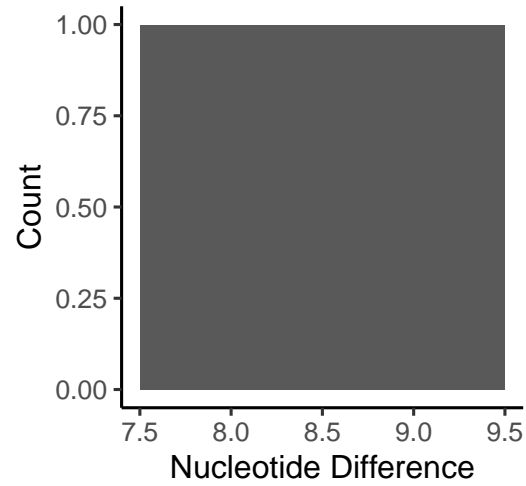
IGHV4-4*07

176 sequences assigned
89 (50.6%) exact matches, in which:
85 unique CDR3
5 unique J



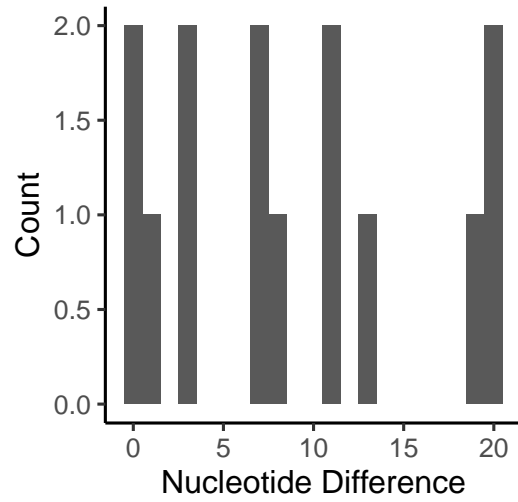
IGHV4-28*01_07

2 sequences assigned
No exact matches.



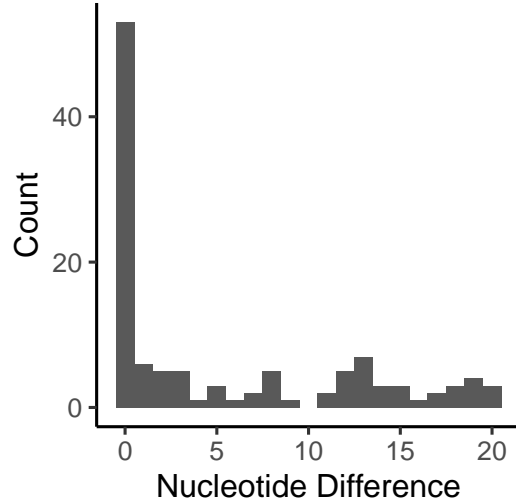
IGHV3-64D*06

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
2 unique J



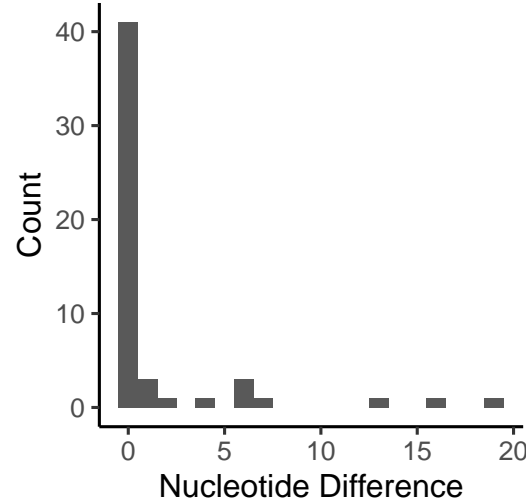
IGHV4-4*02_03

121 sequences assigned
53 (43.8%) exact matches, in which:
53 unique CDR3
5 unique J



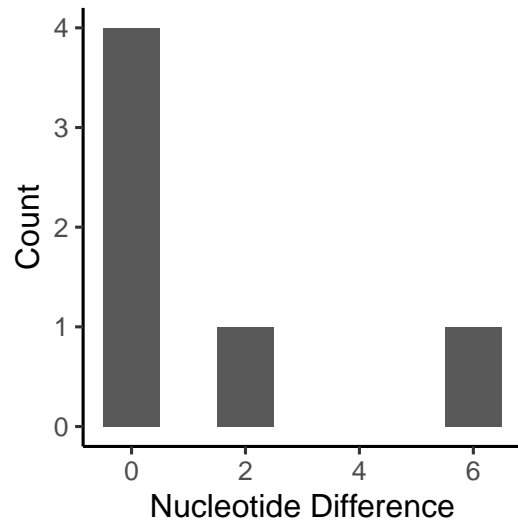
IGHV4-30-2*01

54 sequences assigned
41 (75.9%) exact matches, in which:
40 unique CDR3
4 unique J



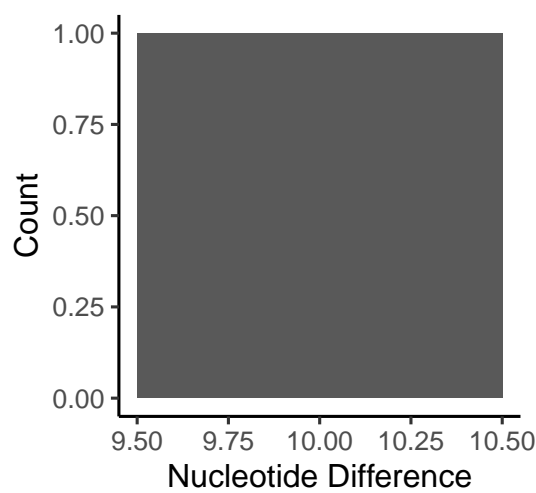
IGHV3-64D*08

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
3 unique J



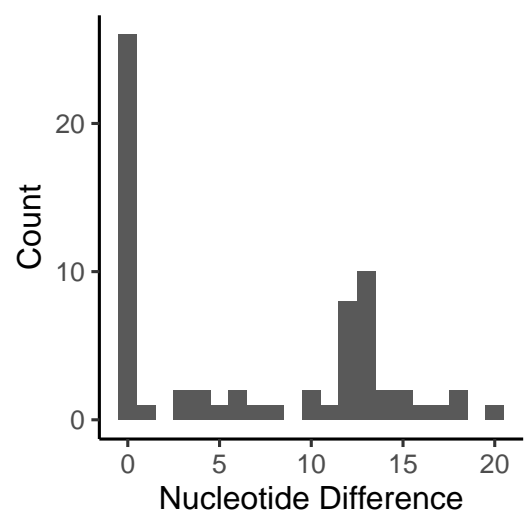
IGHV4-28*03

1 sequences assigned
No exact matches.



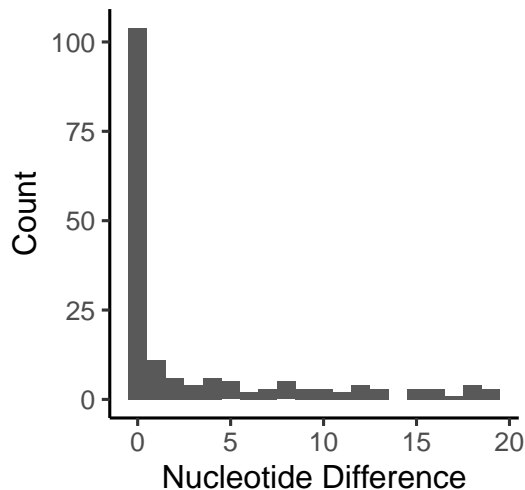
IGHV4-30-4*01

69 sequences assigned
26 (37.7%) exact matches, in which:
24 unique CDR3
5 unique J



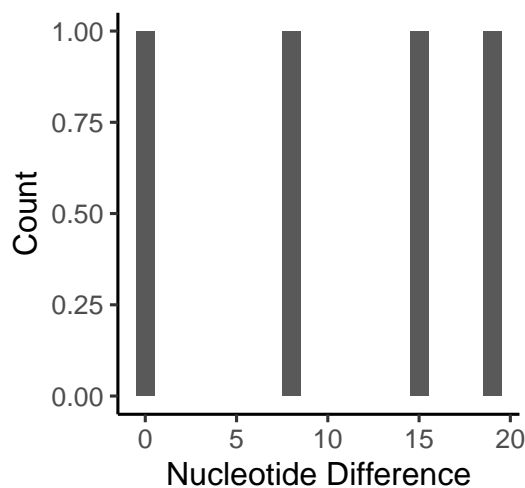
IGHV4-31*02

194 sequences assigned
104 (53.6%) exact matches, in which:
103 unique CDR3
6 unique J



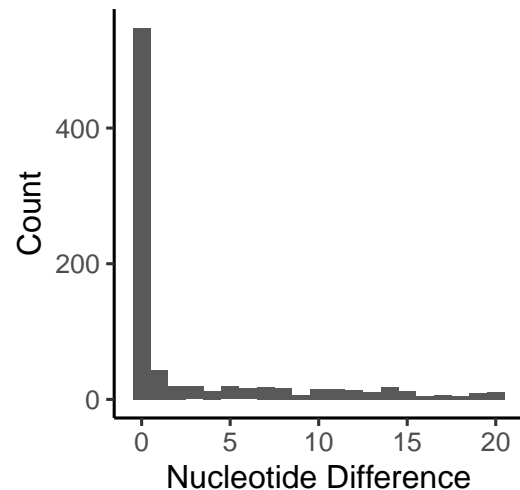
IGHV4-38-2*02

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



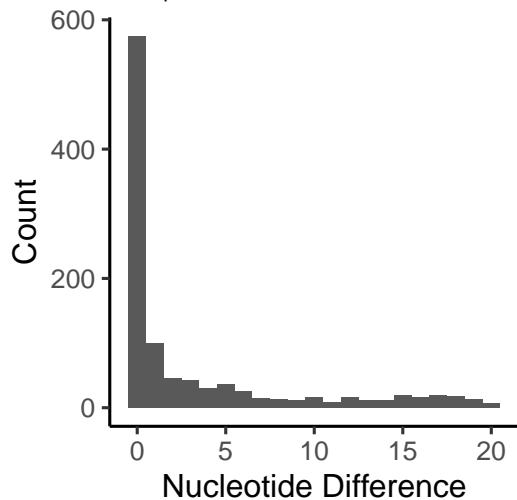
IGHV4-59*02_G88A

896 sequences assigned
548 (61.2%) exact matches, in which:
526 unique CDR3
6 unique J



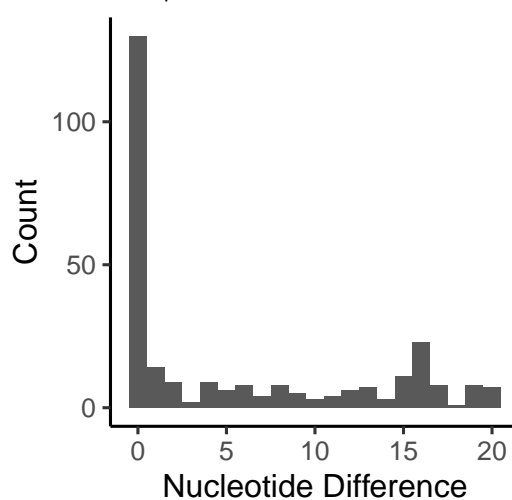
IGHV4-34*01_02

1192 sequences assigned
575 (48.2%) exact matches, in which:
557 unique CDR3
6 unique J



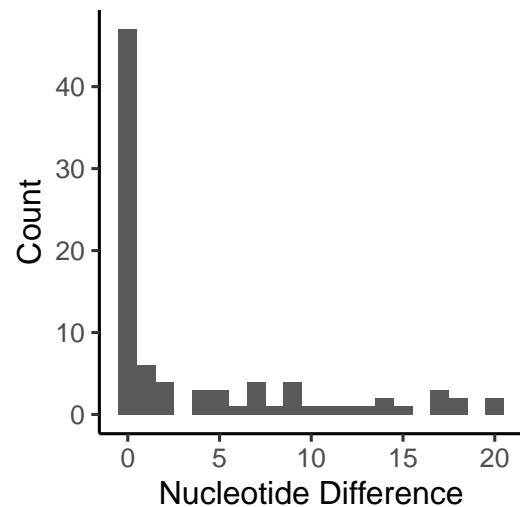
IGHV4-39*07

416 sequences assigned
130 (31.2%) exact matches, in which:
129 unique CDR3
5 unique J



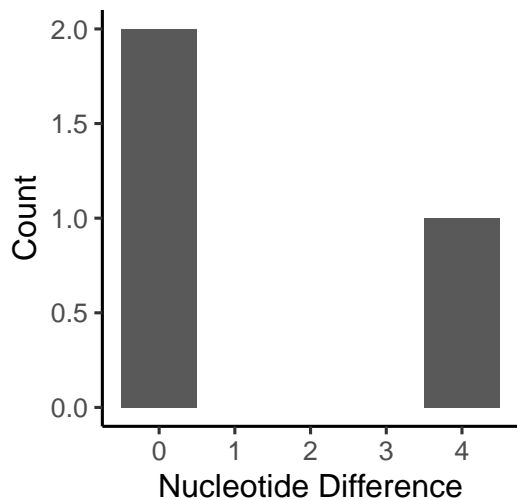
IGHV4-61*01

95 sequences assigned
47 (49.5%) exact matches, in which:
46 unique CDR3
6 unique J



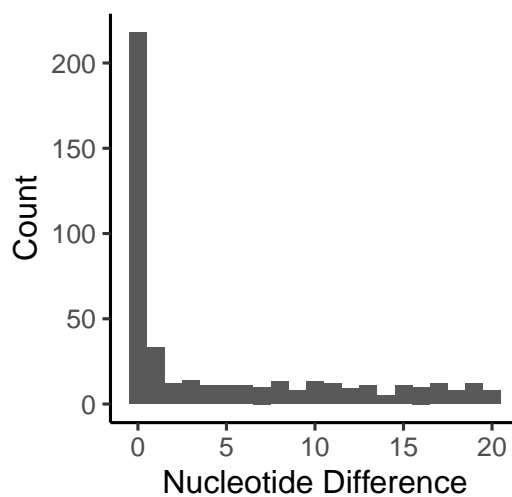
IGHV4-38-2*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



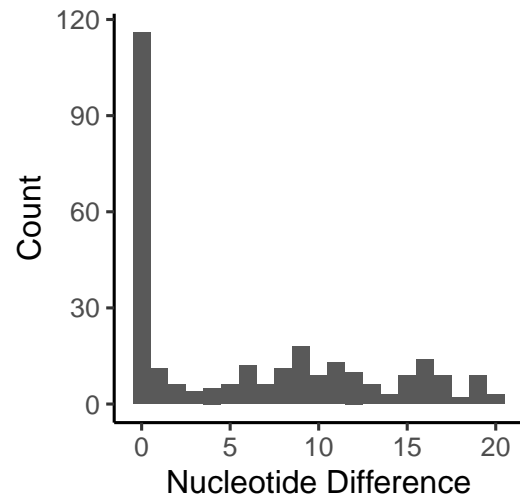
IGHV4-39*02_C258G

630 sequences assigned
218 (34.6%) exact matches, in which:
214 unique CDR3
6 unique J



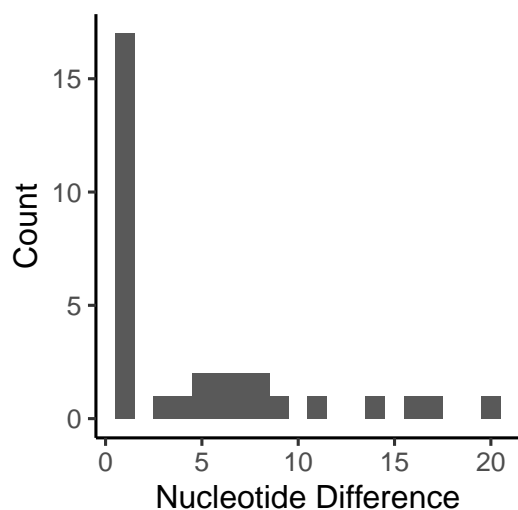
IGHV4-61*02

315 sequences assigned
116 (36.8%) exact matches, in which:
115 unique CDR3
5 unique J



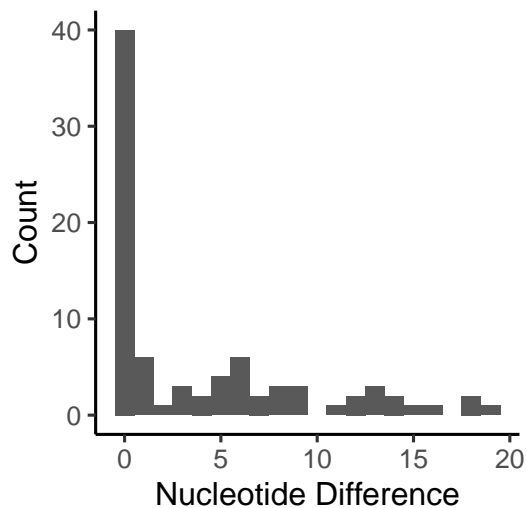
IGHV5-51*07

37 sequences assigned
No exact matches.



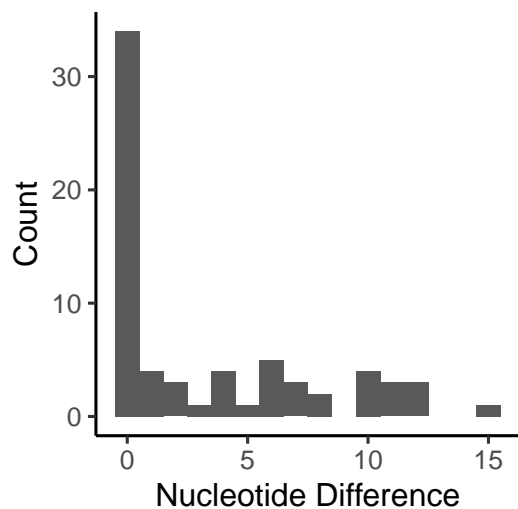
IGHV7-4-1*02

85 sequences assigned
40 (47.1%) exact matches, in which:
40 unique CDR3
6 unique J



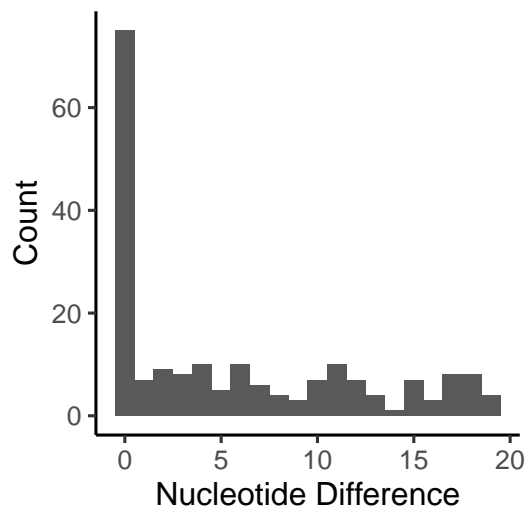
IGHV5-51*01_03

71 sequences assigned
34 (47.9%) exact matches, in which:
34 unique CDR3
5 unique J



IGHV6-1*01_02

198 sequences assigned
75 (37.9%) exact matches, in which:
75 unique CDR3
5 unique J





Warning – no inferred sequences found.