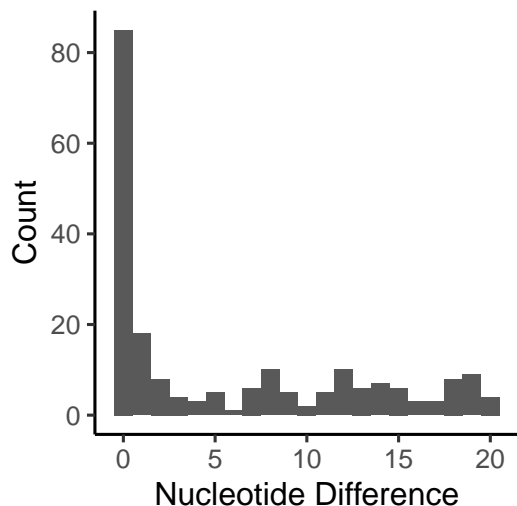


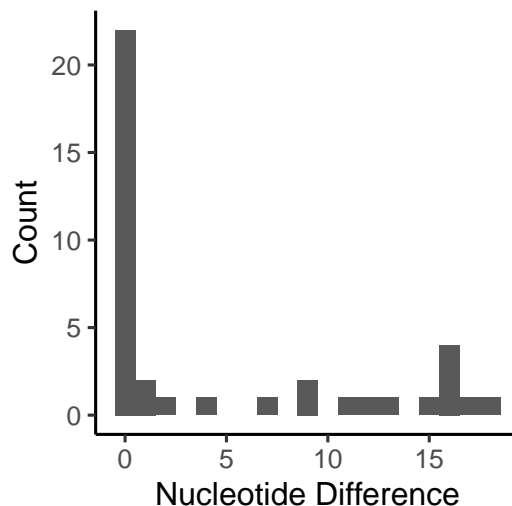
IGHV1-2*02

236 sequences assigned
85 (36%) exact matches, in which:
85 unique CDR3
5 unique J



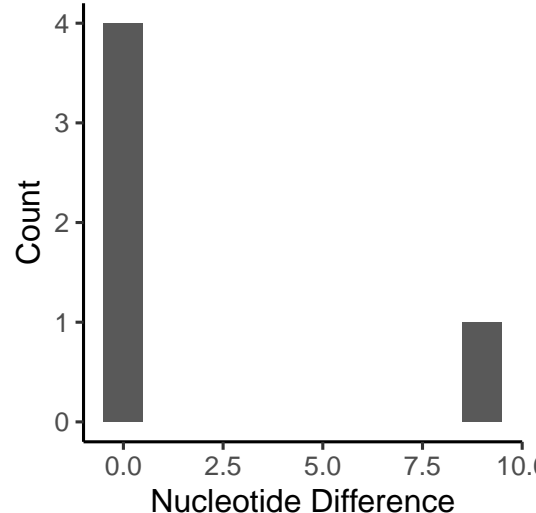
IGHV1-24*01

45 sequences assigned
22 (48.9%) exact matches, in which:
22 unique CDR3
4 unique J



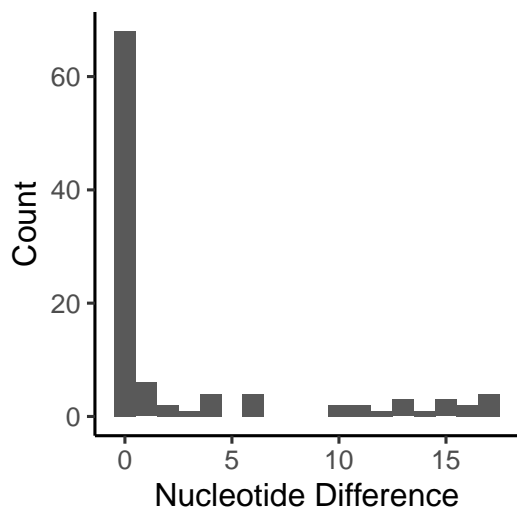
IGHV1-58*01

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



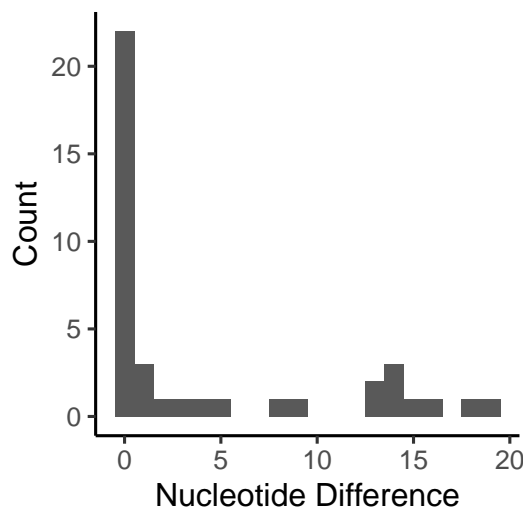
IGHV1-8*01

109 sequences assigned
68 (62.4%) exact matches, in which:
68 unique CDR3
5 unique J



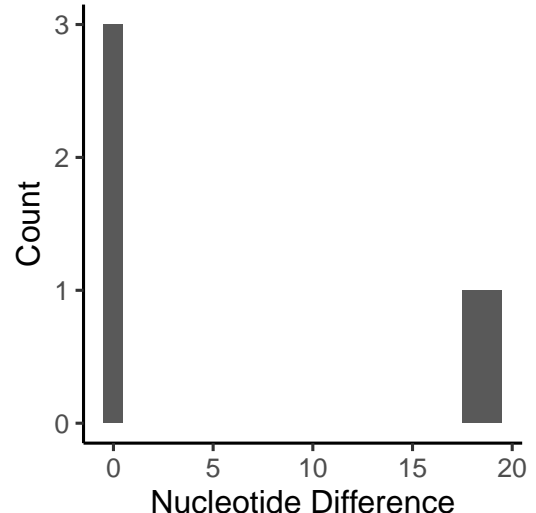
IGHV1-46*01

51 sequences assigned
22 (43.1%) exact matches, in which:
22 unique CDR3
5 unique J



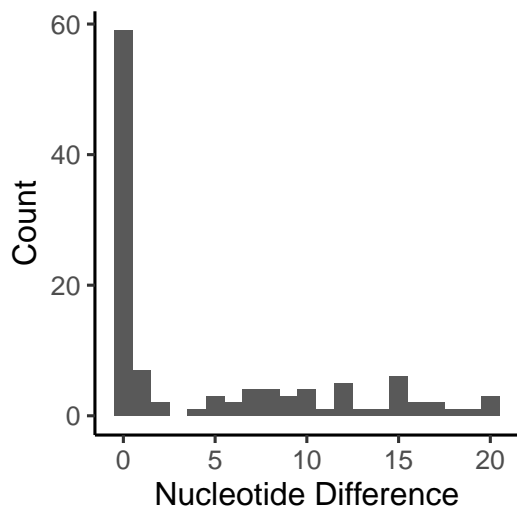
IGHV1-58*02

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



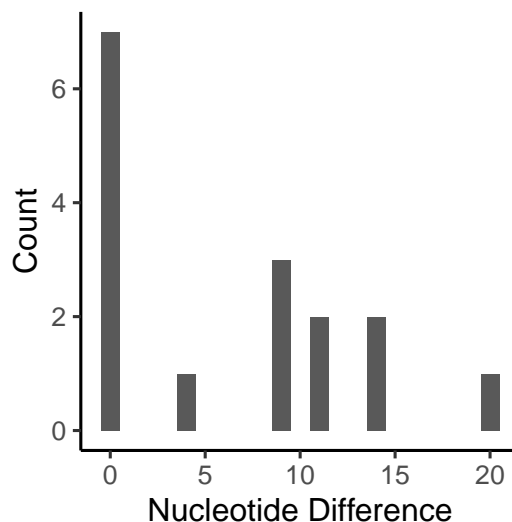
IGHV1-18*01

129 sequences assigned
59 (45.7%) exact matches, in which:
59 unique CDR3
6 unique J



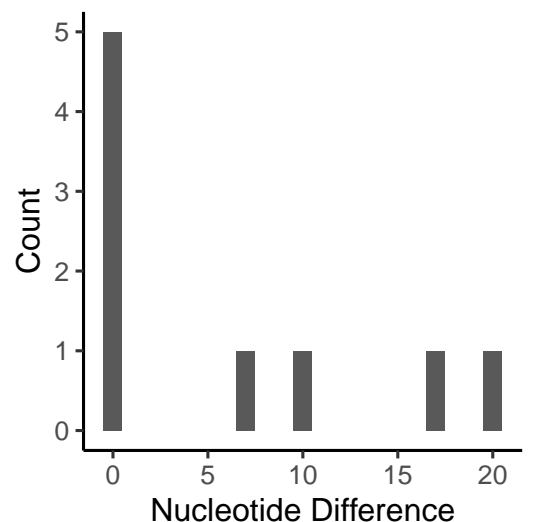
IGHV1-46*03

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



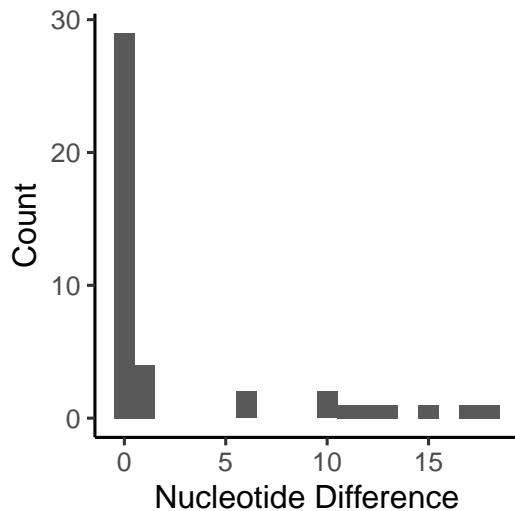
IGHV1-69-2*01

16 sequences assigned
5 (31.2%) exact matches, in which:
5 unique CDR3
3 unique J



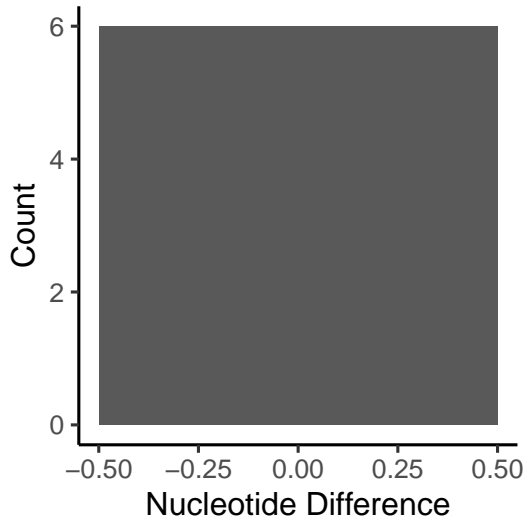
IGHV1-69*06

49 sequences assigned
29 (59.2%) exact matches, in which:
29 unique CDR3
5 unique J



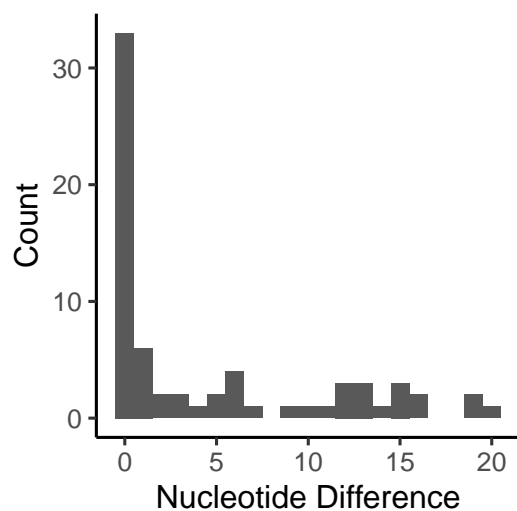
IGHV2-70*01

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



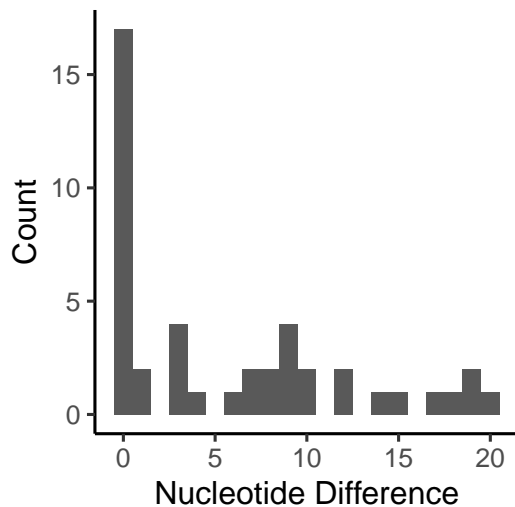
IGHV3-11*01

73 sequences assigned
33 (45.2%) exact matches, in which:
33 unique CDR3
5 unique J



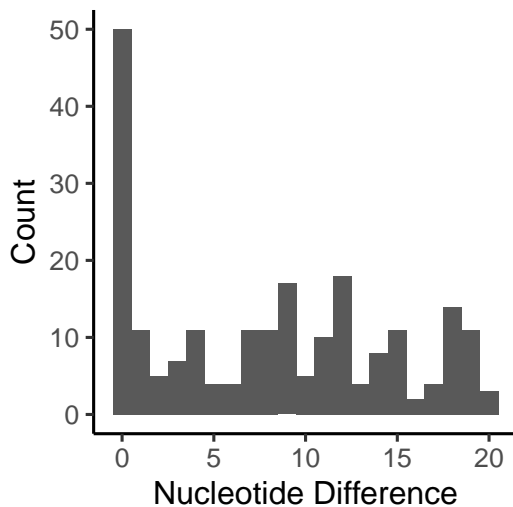
IGHV2-5*01

47 sequences assigned
17 (36.2%) exact matches, in which:
17 unique CDR3
6 unique J



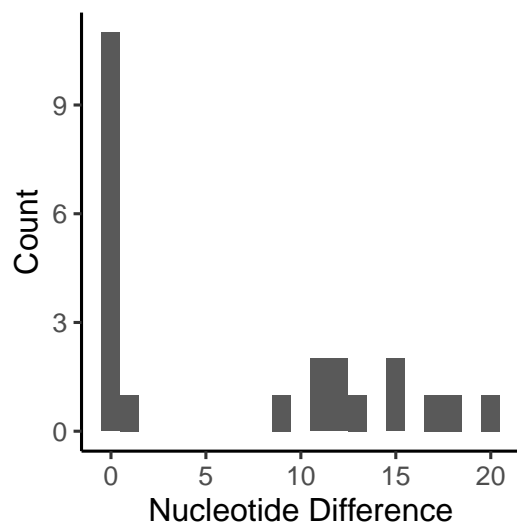
IGHV3-7*01

234 sequences assigned
50 (21.4%) exact matches, in which:
50 unique CDR3
6 unique J



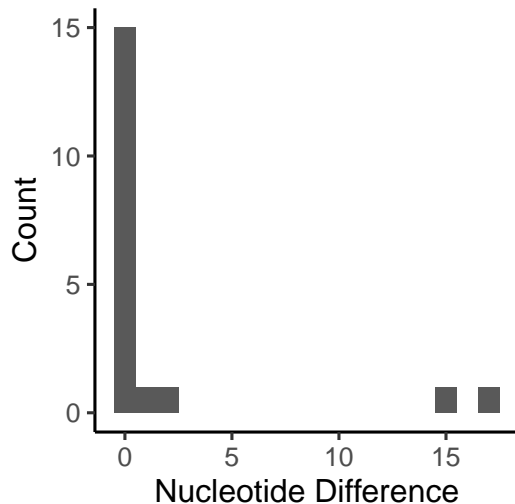
IGHV3-13*01

25 sequences assigned
11 (44%) exact matches, in which:
11 unique CDR3
4 unique J



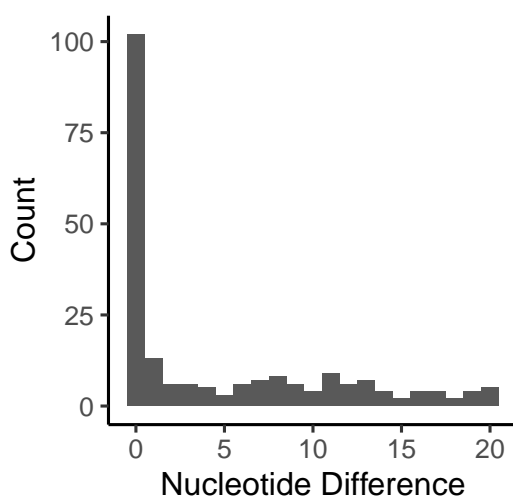
IGHV2-26*01

20 sequences assigned
15 (75%) exact matches, in which:
15 unique CDR3
5 unique J



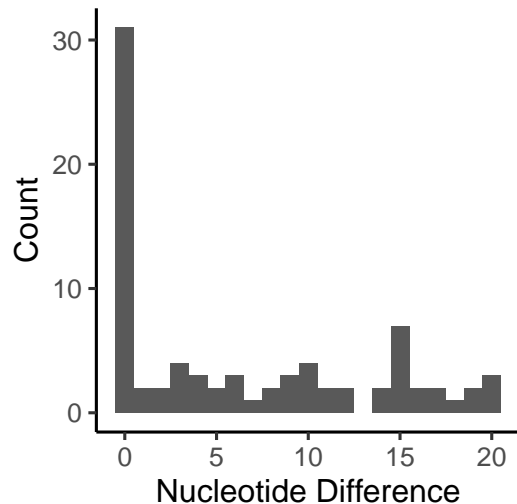
IGHV3-9*01

222 sequences assigned
102 (45.9%) exact matches, in which:
102 unique CDR3
6 unique J



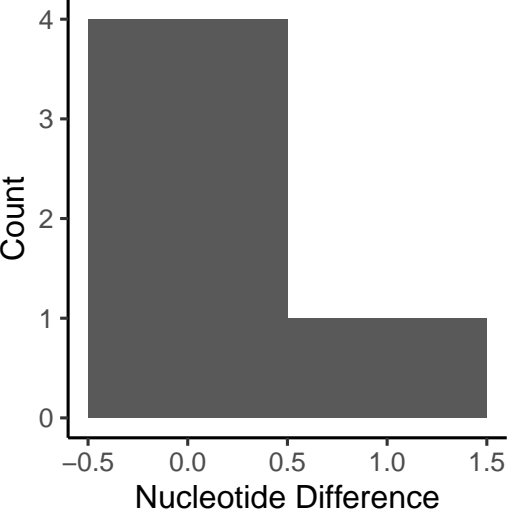
IGHV3-15*01

99 sequences assigned
31 (31.3%) exact matches, in which:
31 unique CDR3
5 unique J



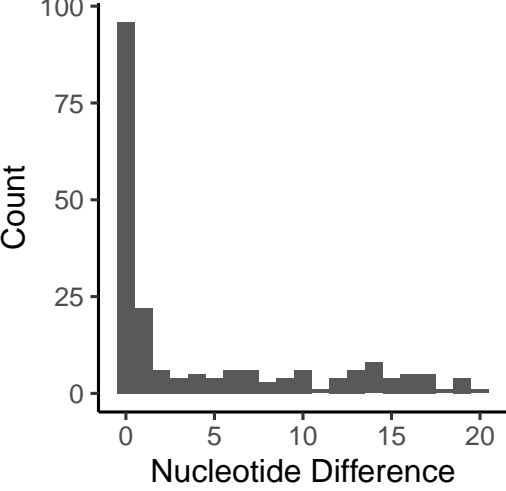
IGHV3-20*01

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



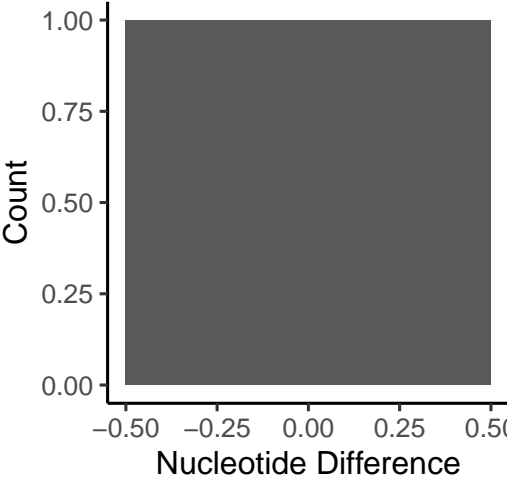
IGHV3-30-3*01

221 sequences assigned
96 (43.4%) exact matches, in which:
96 unique CDR3
5 unique J



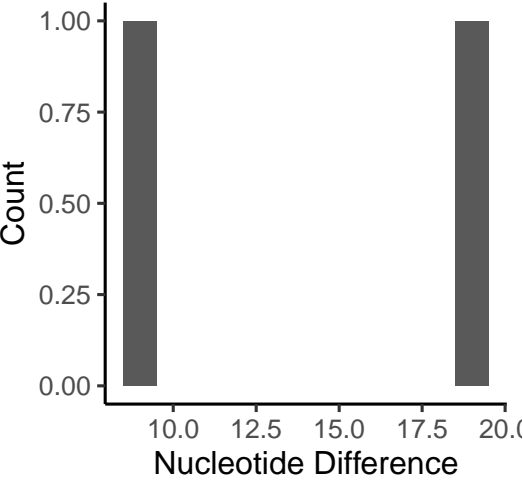
IGHV3-35*01

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



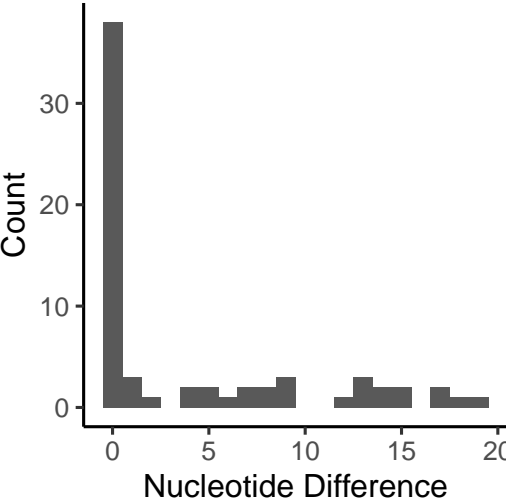
IGHV3-20*04

4 sequences assigned
No exact matches.



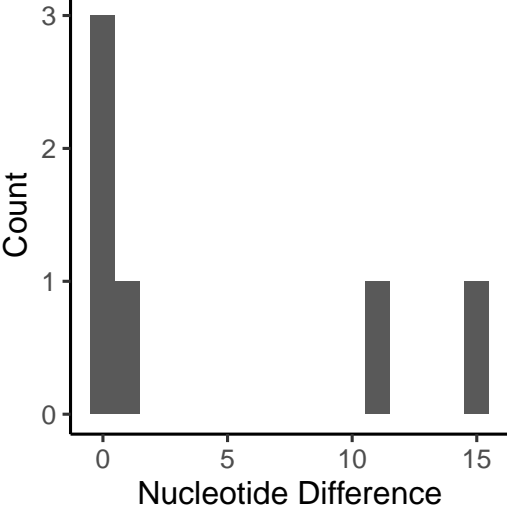
IGHV3-30*01

74 sequences assigned
38 (51.4%) exact matches, in which:
38 unique CDR3
5 unique J



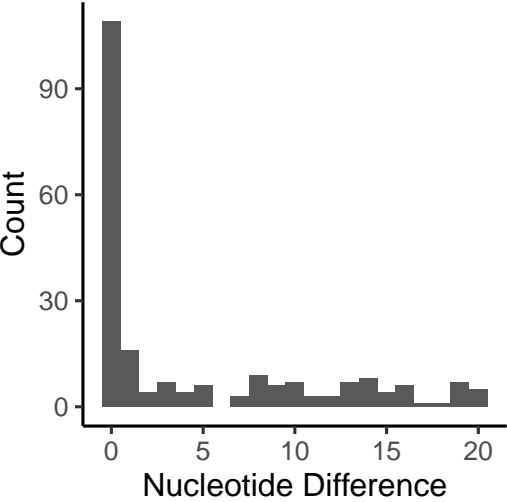
IGHV3-43*01

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



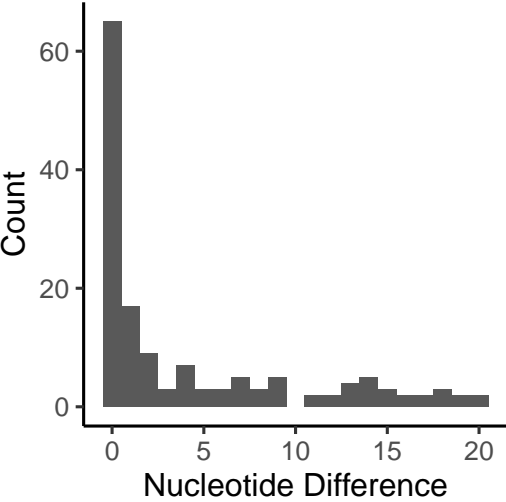
IGHV3-21*01

231 sequences assigned
109 (47.2%) exact matches, in which:
109 unique CDR3
6 unique J



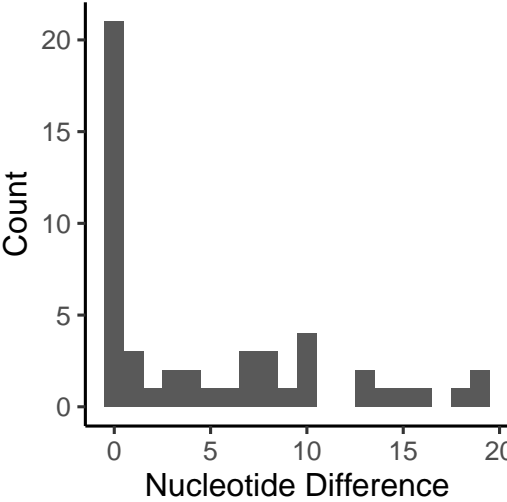
IGHV3-33*01

158 sequences assigned
65 (41.1%) exact matches, in which:
65 unique CDR3
6 unique J



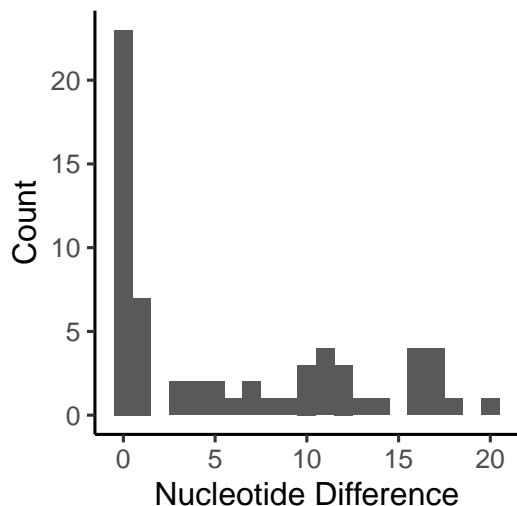
IGHV3-48*01

54 sequences assigned
21 (38.9%) exact matches, in which:
21 unique CDR3
5 unique J



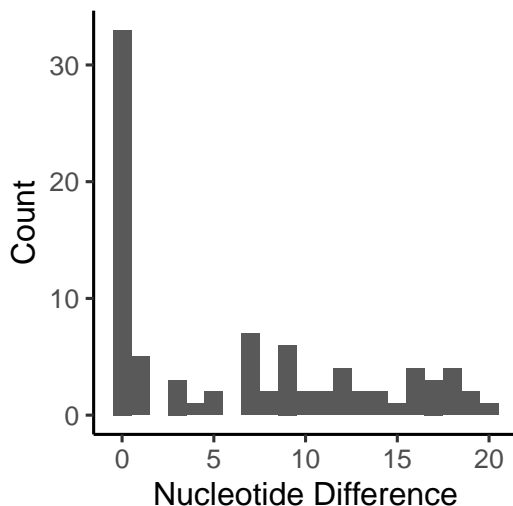
IGHV3-48*02

65 sequences assigned
23 (35.4%) exact matches, in which:
23 unique CDR3
5 unique J



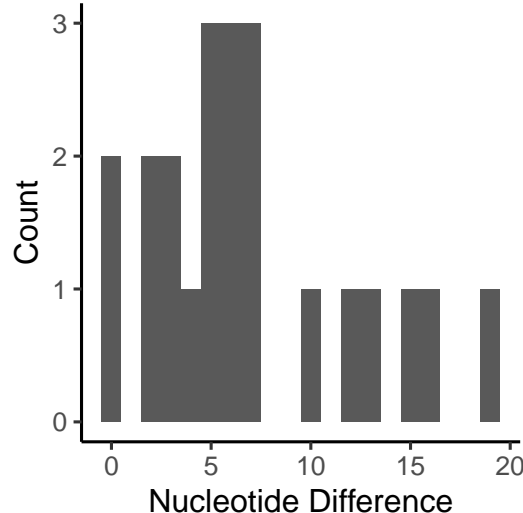
IGHV3-53*01

104 sequences assigned
33 (31.7%) exact matches, in which:
33 unique CDR3
6 unique J



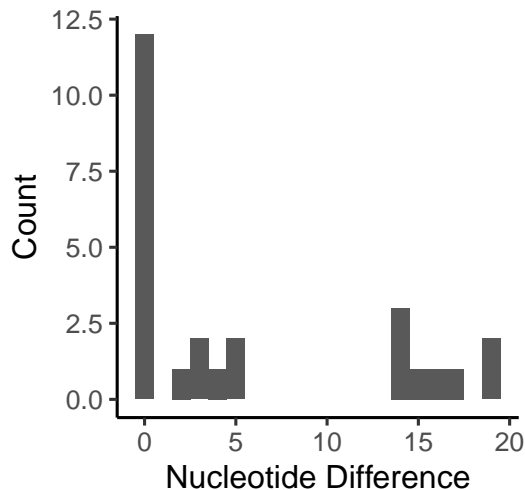
IGHV3-72*01

26 sequences assigned
2 (7.7%) exact matches, in which:
2 unique CDR3
2 unique J



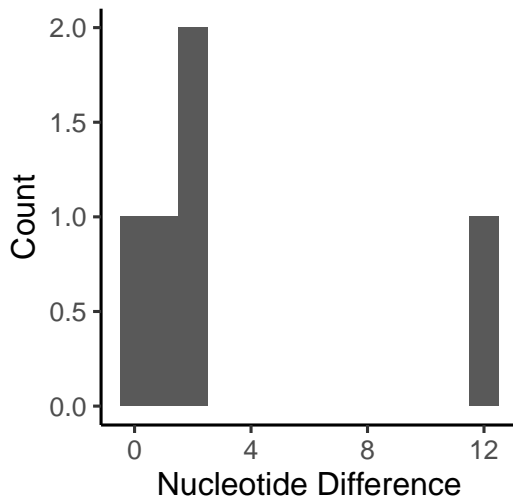
IGHV3-49*03

36 sequences assigned
12 (33.3%) exact matches, in which:
12 unique CDR3
3 unique J



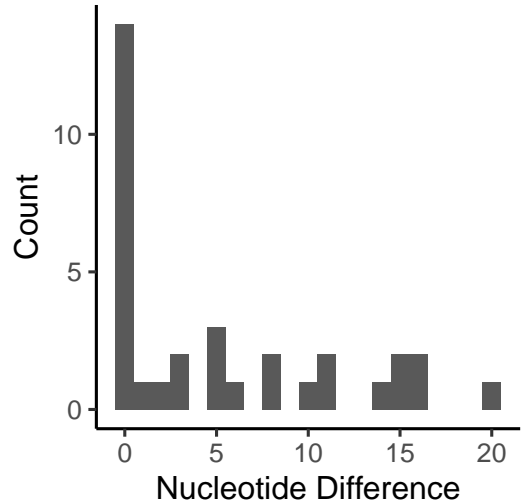
IGHV3-64*01

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



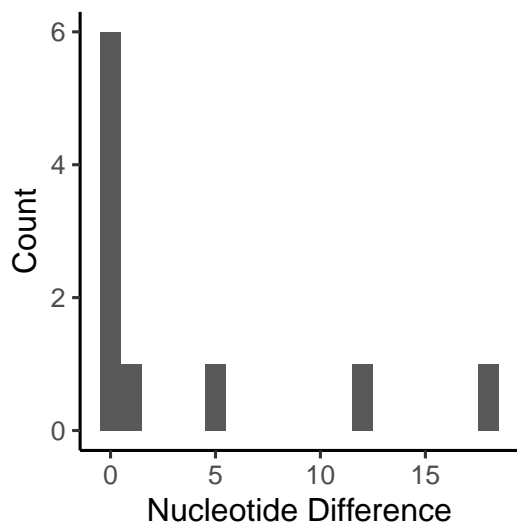
IGHV3-73*02

36 sequences assigned
14 (38.9%) exact matches, in which:
14 unique CDR3
4 unique J



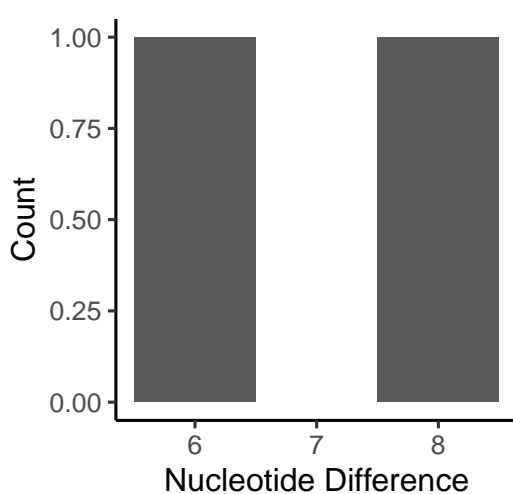
IGHV3-49*05

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



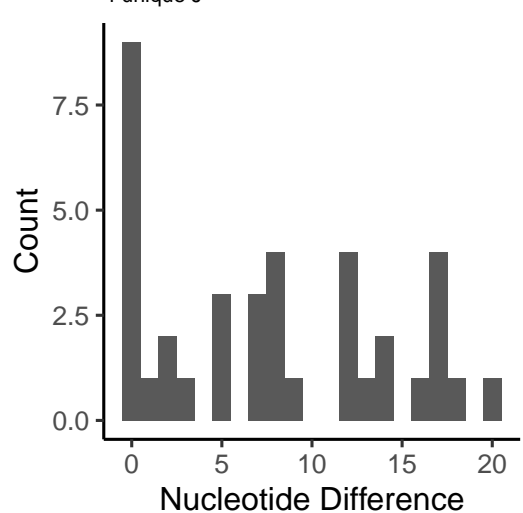
IGHV3-64*07

2 sequences assigned
No exact matches.



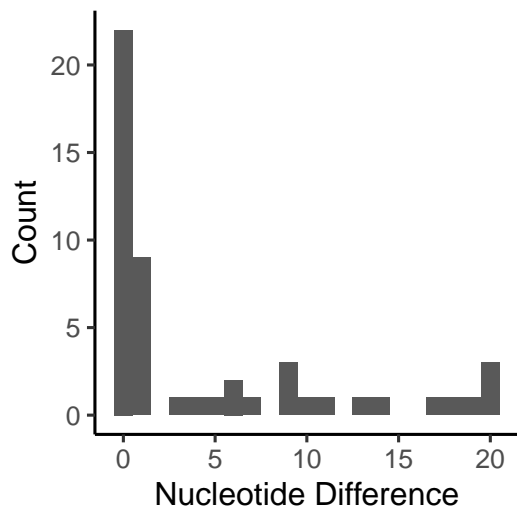
IGHV3-74*01

52 sequences assigned
9 (17.3%) exact matches, in which:
9 unique CDR3
4 unique J



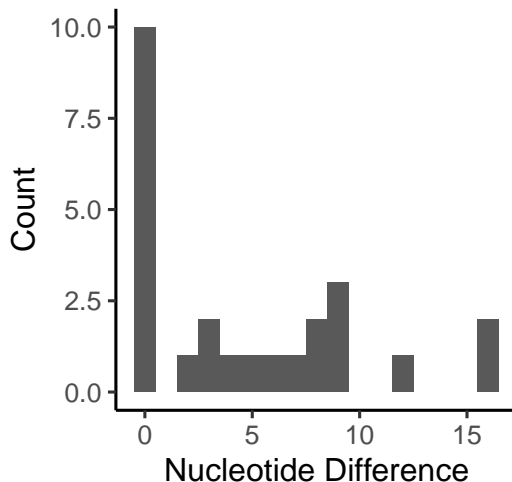
IGHV4-4*07

55 sequences assigned
22 (40%) exact matches, in which:
22 unique CDR3
5 unique J



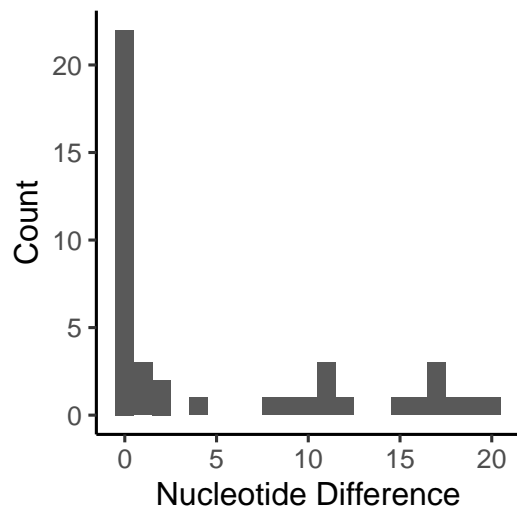
IGHV4-30-4*01

25 sequences assigned
10 (40%) exact matches, in which:
10 unique CDR3
5 unique J



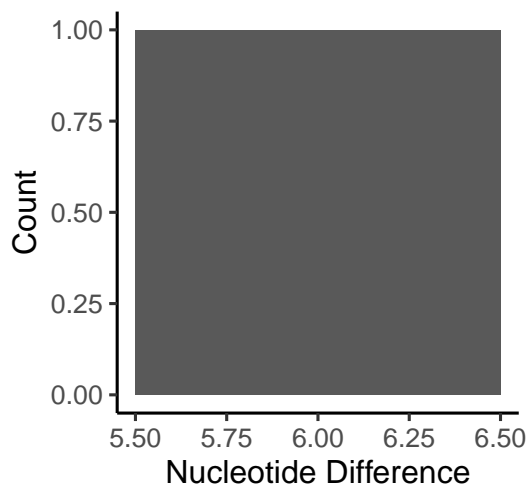
IGHV4-31*03

45 sequences assigned
22 (48.9%) exact matches, in which:
22 unique CDR3
4 unique J



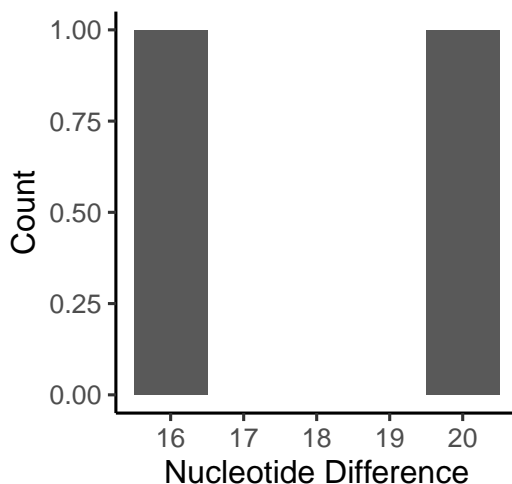
IGHV4-28*01

1 sequences assigned
No exact matches.



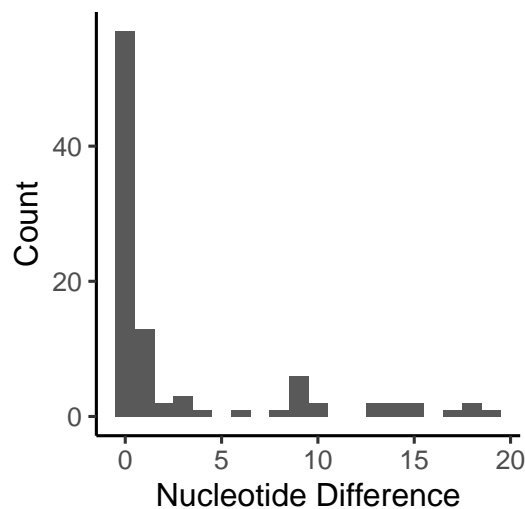
IGHV4-30-4*08

3 sequences assigned
No exact matches.



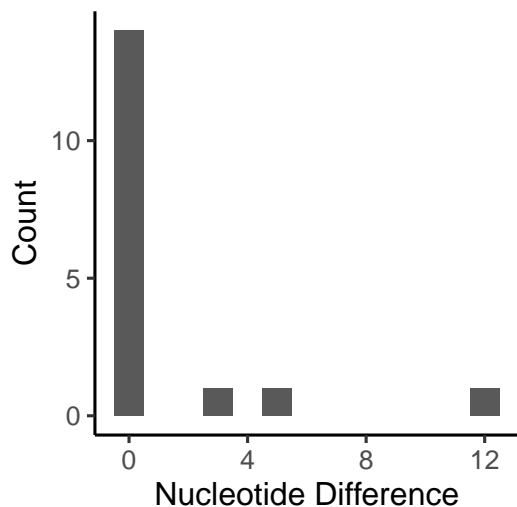
IGHV4-34*01

103 sequences assigned
57 (55.3%) exact matches, in which:
57 unique CDR3
6 unique J



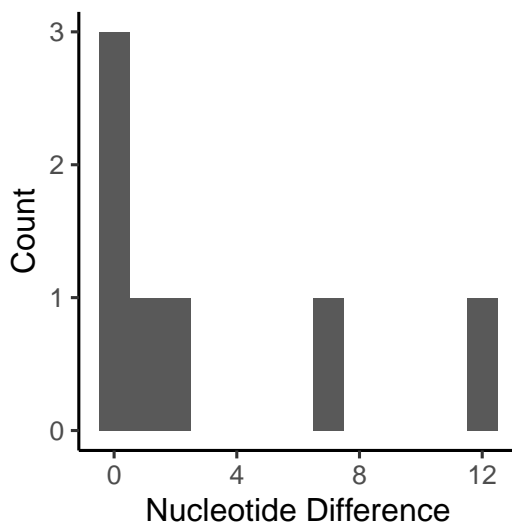
IGHV4-30-2*01

19 sequences assigned
14 (73.7%) exact matches, in which:
14 unique CDR3
4 unique J



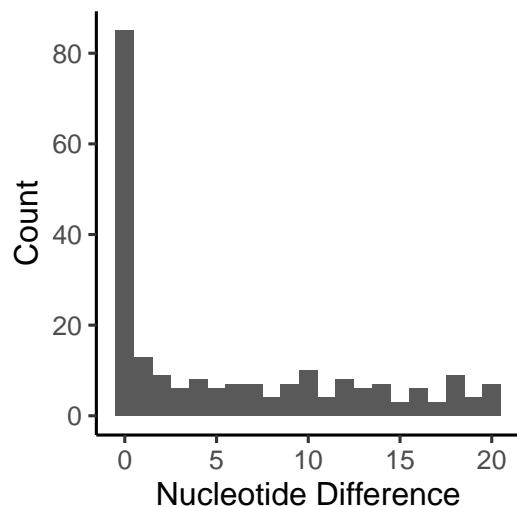
IGHV4-31*01

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



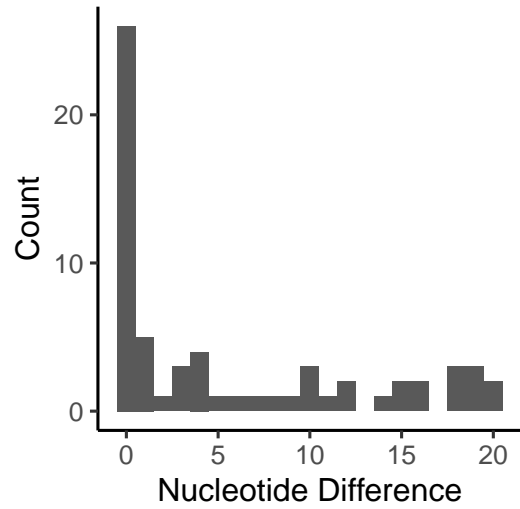
IGHV4-39*01

248 sequences assigned
85 (34.3%) exact matches, in which:
84 unique CDR3
6 unique J



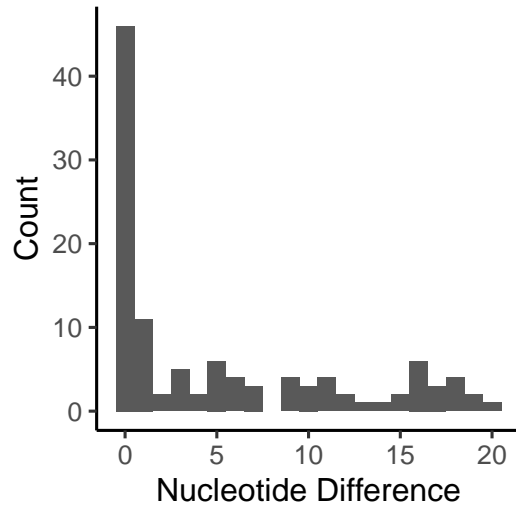
IGHV4–59*01

75 sequences assigned
26 (34.7%) exact matches, in which:
26 unique CDR3
6 unique J



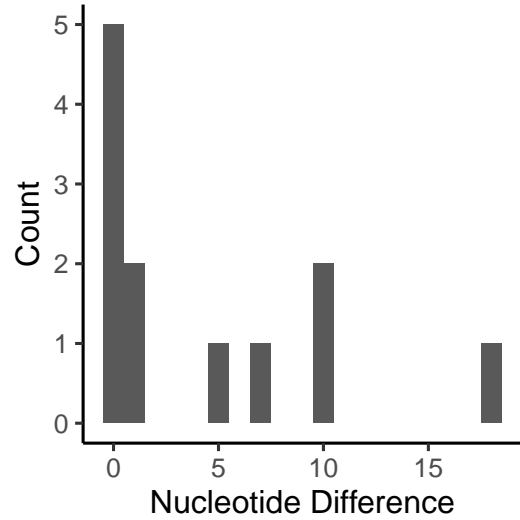
IGHV5–51*01

121 sequences assigned
46 (38%) exact matches, in which:
46 unique CDR3
6 unique J



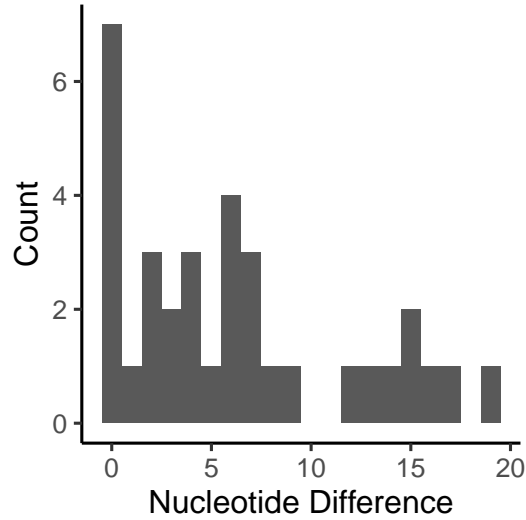
IGHV4–61*01

15 sequences assigned
5 (33.3%) exact matches, in which:
5 unique CDR3
3 unique J



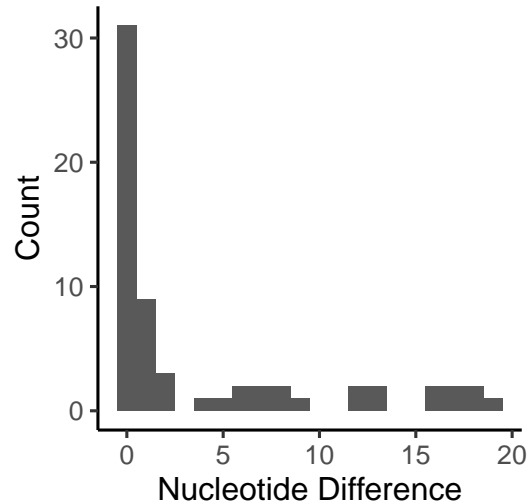
IGHV6–1*01

36 sequences assigned
7 (19.4%) exact matches, in which:
7 unique CDR3
2 unique J



IGHV4–61*02

71 sequences assigned
31 (43.7%) exact matches, in which:
31 unique CDR3
6 unique J





[illegible]