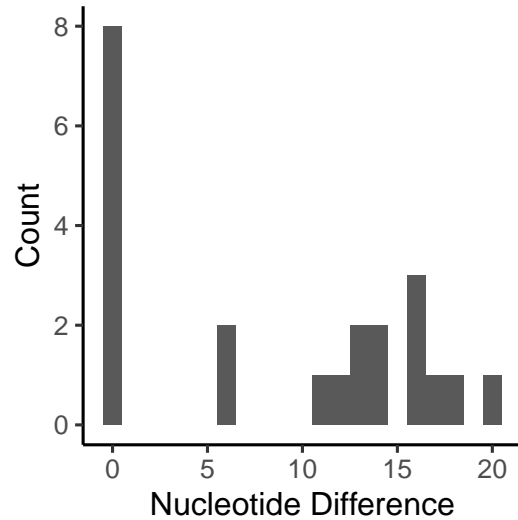


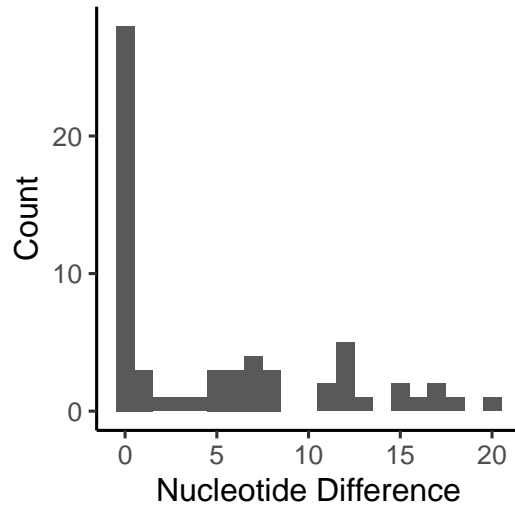
IGHV1-2*04

26 sequences assigned
8 (30.8%) exact matches, in which:
8 unique CDR3
4 unique J



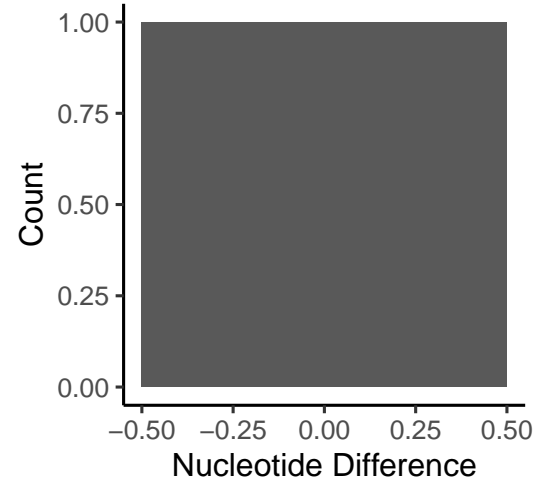
IGHV1-8*01

72 sequences assigned
28 (38.9%) exact matches, in which:
28 unique CDR3
5 unique J



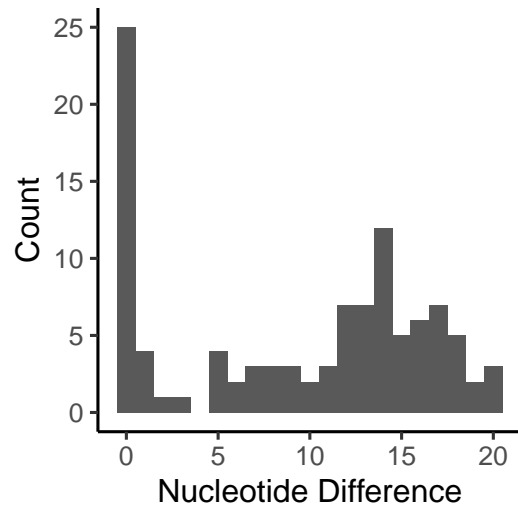
IGHV1-45*02

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



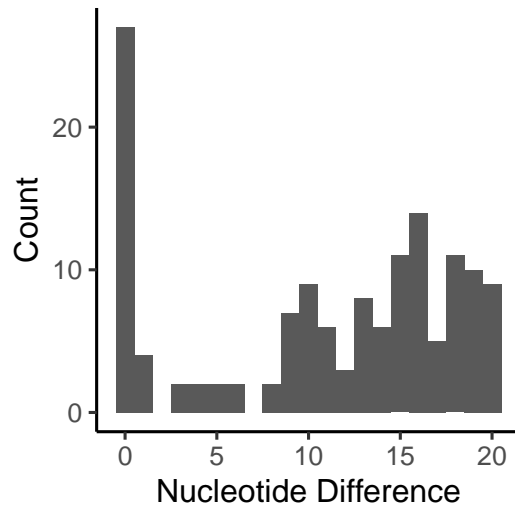
IGHV1-2*06

145 sequences assigned
25 (17.2%) exact matches, in which:
25 unique CDR3
4 unique J



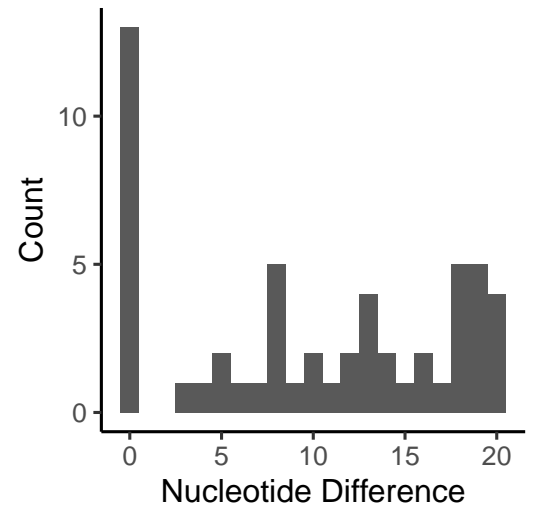
IGHV1-18*01

197 sequences assigned
27 (13.7%) exact matches, in which:
27 unique CDR3
6 unique J



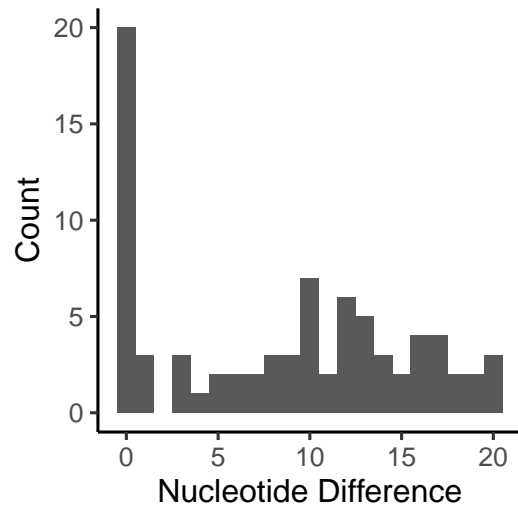
IGHV1-46*01

80 sequences assigned
13 (16.2%) exact matches, in which:
13 unique CDR3
3 unique J



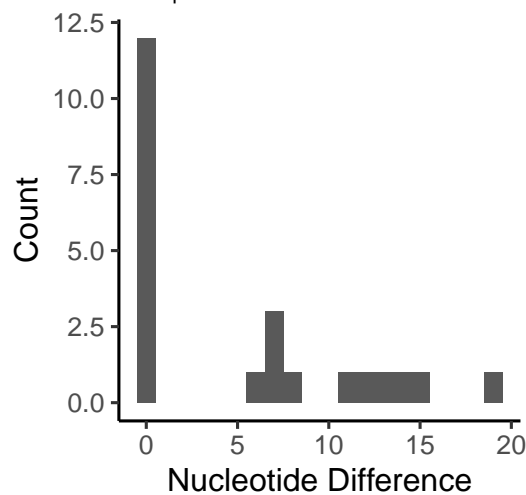
IGHV1-3*01

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



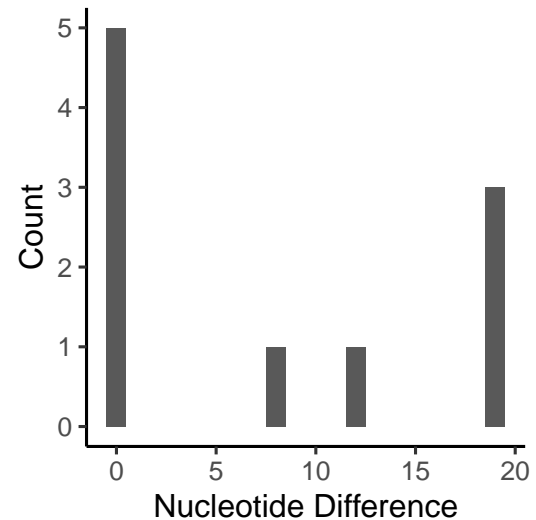
IGHV1-24*01

29 sequences assigned
12 (41.4%) exact matches, in which:
12 unique CDR3
4 unique J



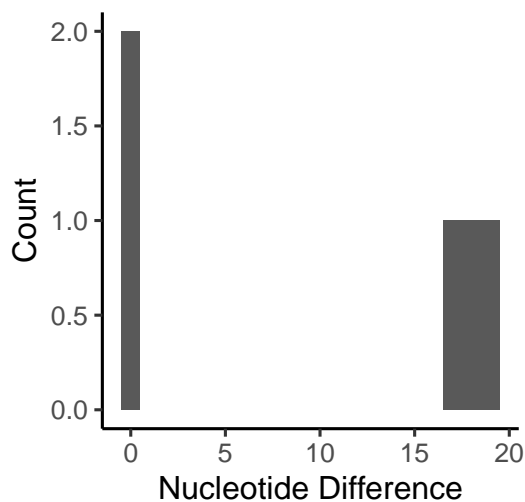
IGHV1-58*01

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



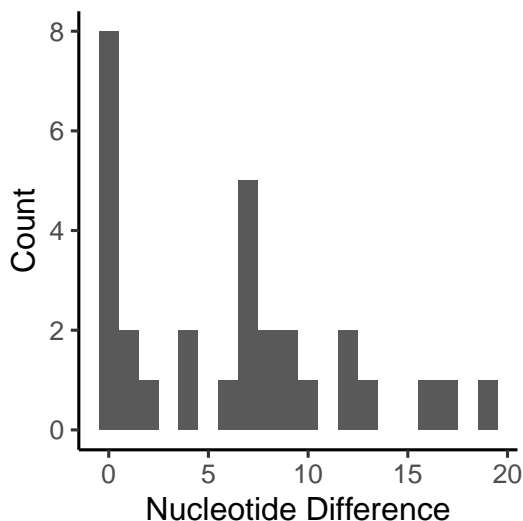
IGHV1-69-2*01

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



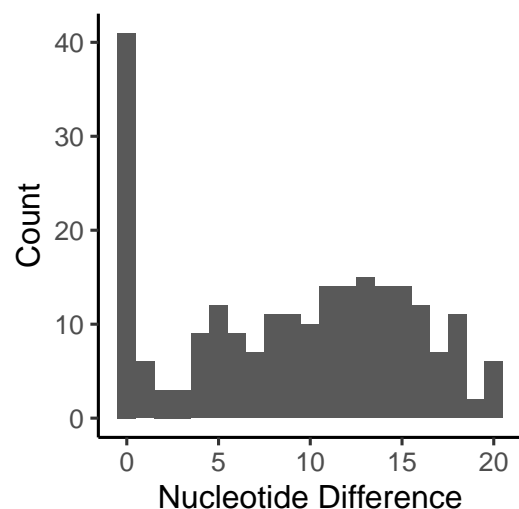
IGHV2-26*01

33 sequences assigned
8 (24.2%) exact matches, in which:
8 unique CDR3
3 unique J



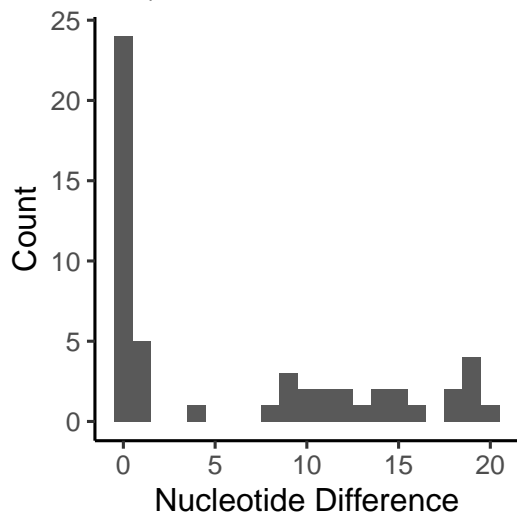
IGHV3-7*01

264 sequences assigned
41 (15.5%) exact matches, in which:
38 unique CDR3
4 unique J



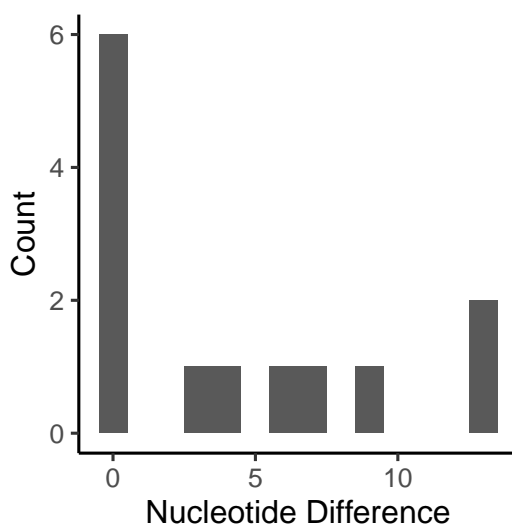
IGHV1-69*06

90 sequences assigned
24 (26.7%) exact matches, in which:
23 unique CDR3
4 unique J



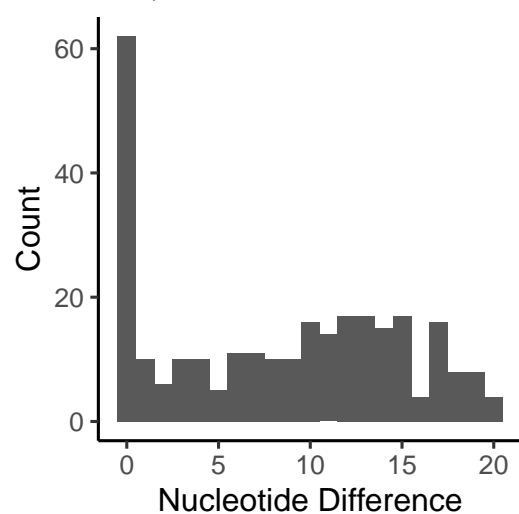
IGHV2-70*01

16 sequences assigned
6 (37.5%) exact matches, in which:
6 unique CDR3
4 unique J



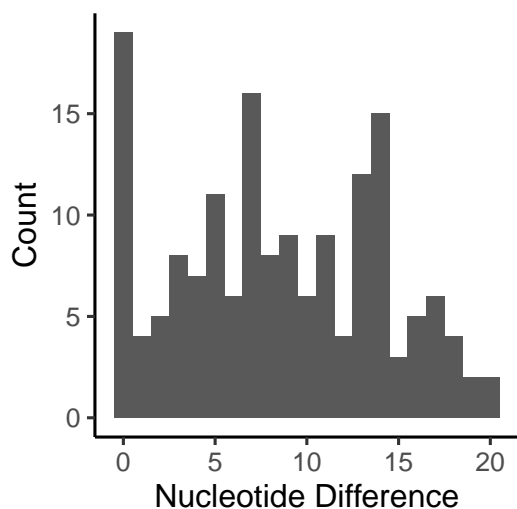
IGHV3-9*01

325 sequences assigned
62 (19.1%) exact matches, in which:
62 unique CDR3
6 unique J



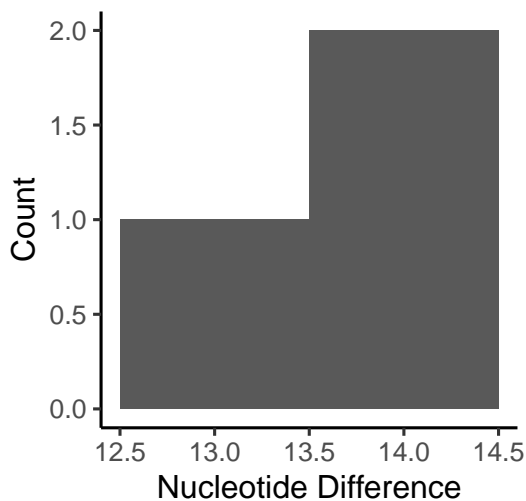
IGHV2-5*02

196 sequences assigned
19 (9.7%) exact matches, in which:
19 unique CDR3
4 unique J



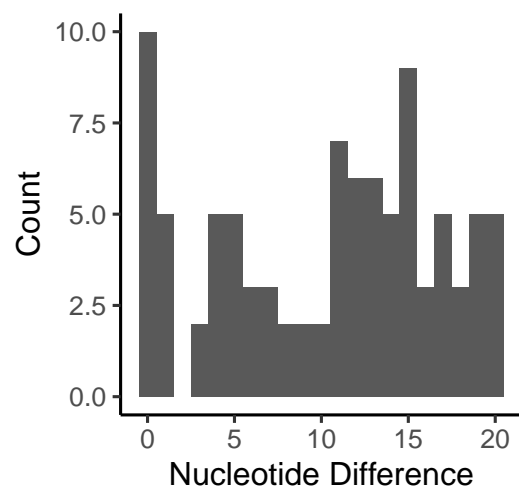
IGHV2-70*13

3 sequences assigned
No exact matches.



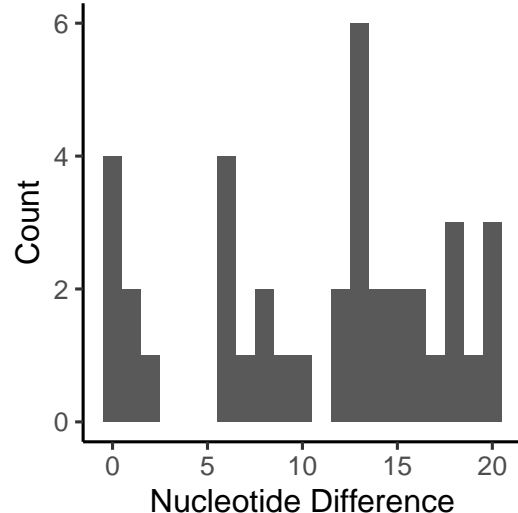
IGHV3-11*01

118 sequences assigned
10 (8.5%) exact matches, in which:
10 unique CDR3
5 unique J



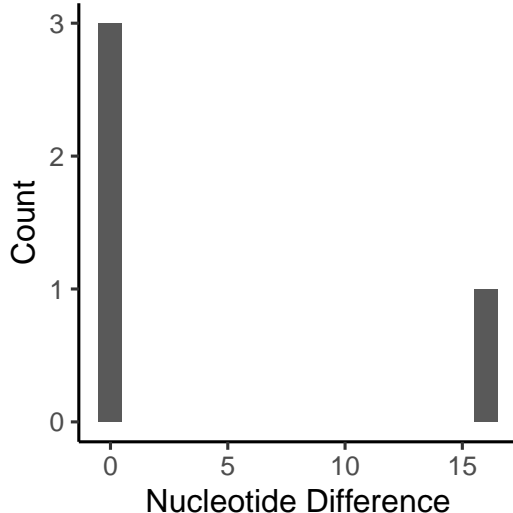
IGHV3-13*01

45 sequences assigned
4 (8.9%) exact matches, in which:
4 unique CDR3
3 unique J



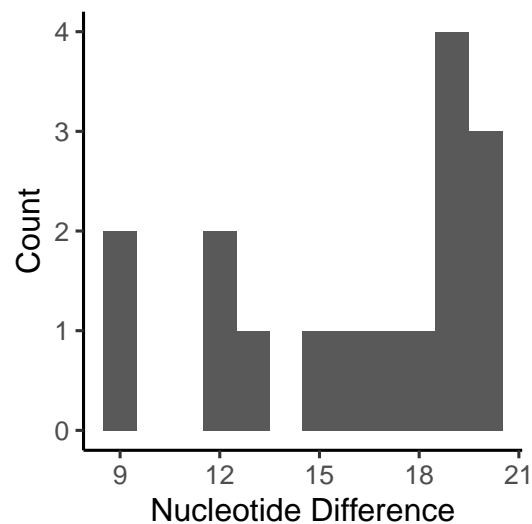
IGHV3-20*01

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



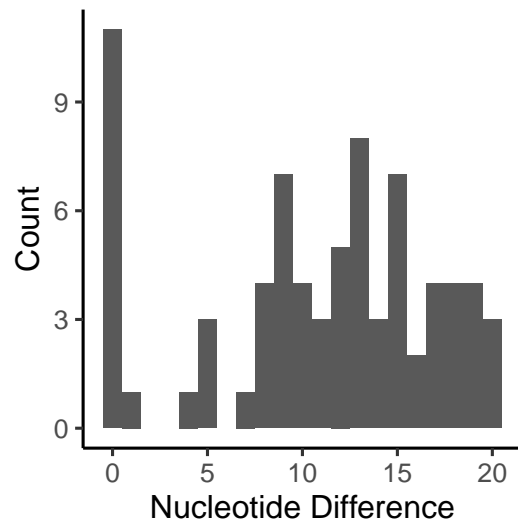
IGHV3-21*02

29 sequences assigned
No exact matches.



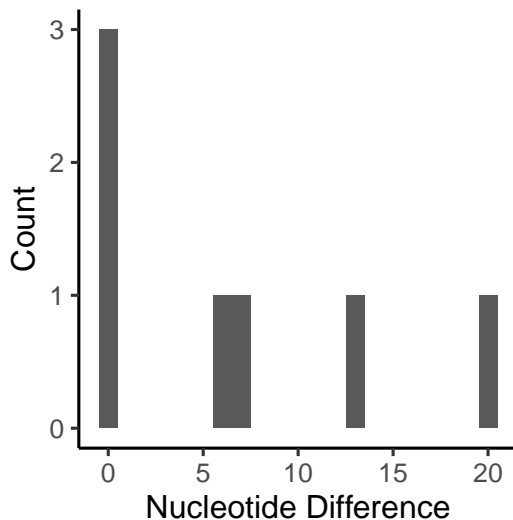
IGHV3-15*01

92 sequences assigned
11 (12%) exact matches, in which:
10 unique CDR3
2 unique J



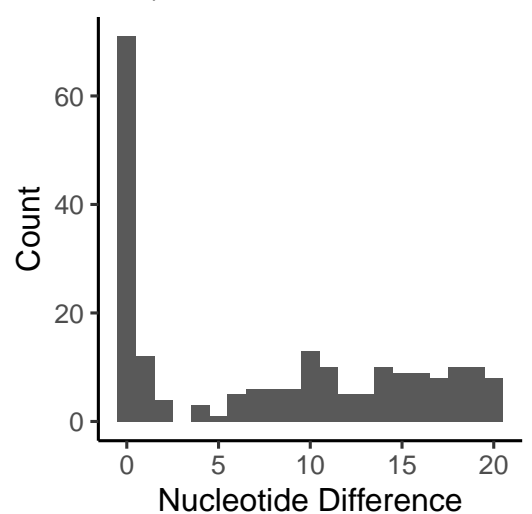
IGHV3-20*04

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



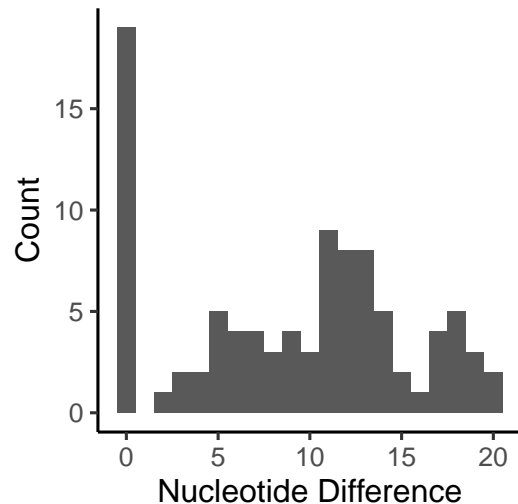
IGHV3-30-3*01

275 sequences assigned
71 (25.8%) exact matches, in which:
70 unique CDR3
5 unique J



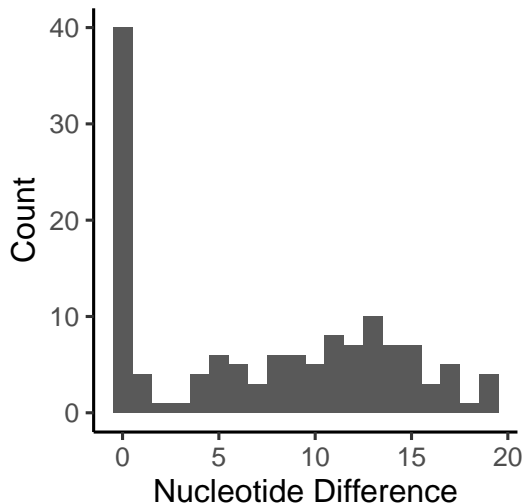
IGHV3-15*07

115 sequences assigned
19 (16.5%) exact matches, in which:
18 unique CDR3
4 unique J



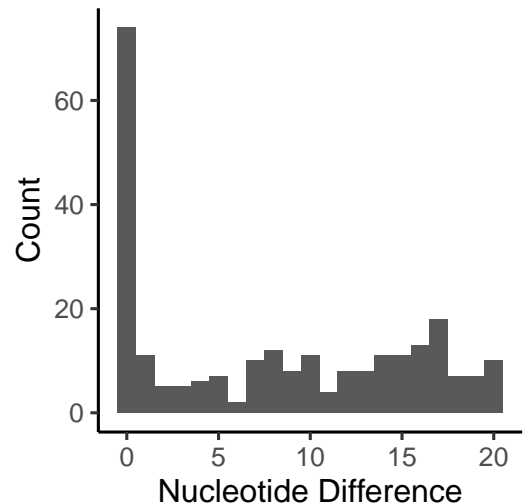
IGHV3-21*01

141 sequences assigned
40 (28.4%) exact matches, in which:
40 unique CDR3
5 unique J



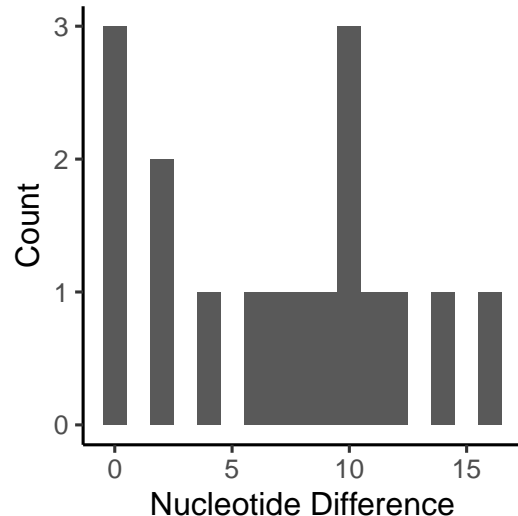
IGHV3-33*01

298 sequences assigned
74 (24.8%) exact matches, in which:
71 unique CDR3
5 unique J



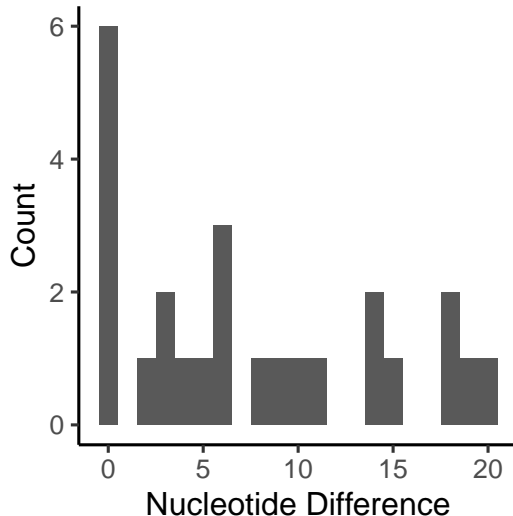
IGHV3-43*01

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



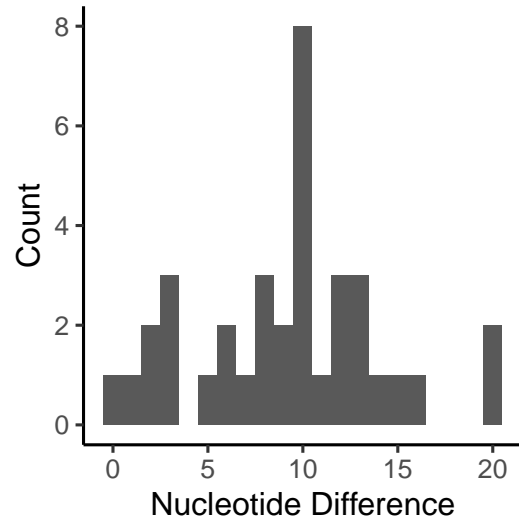
IGHV3-49*04

32 sequences assigned
6 (18.8%) exact matches, in which:
6 unique CDR3
2 unique J



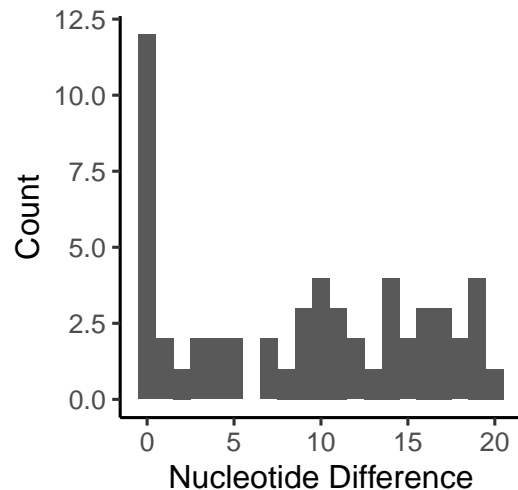
IGHV3-53*02

48 sequences assigned
1 (2.1%) exact matches, in which:
1 unique CDR3
1 unique J



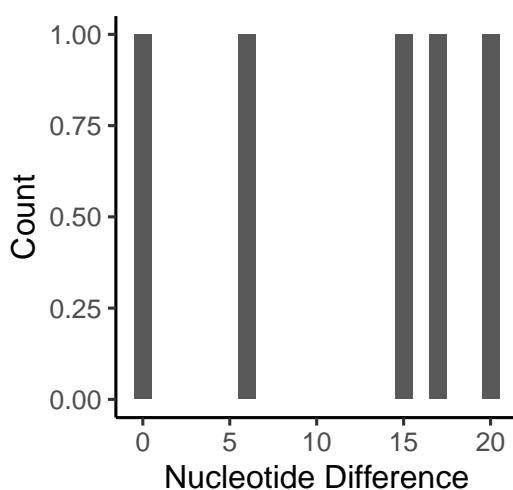
IGHV3-48*02

62 sequences assigned
12 (19.4%) exact matches, in which:
12 unique CDR3
3 unique J



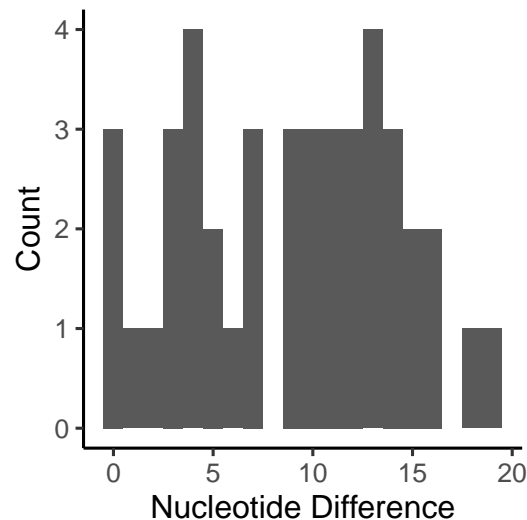
IGHV3-49*05

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



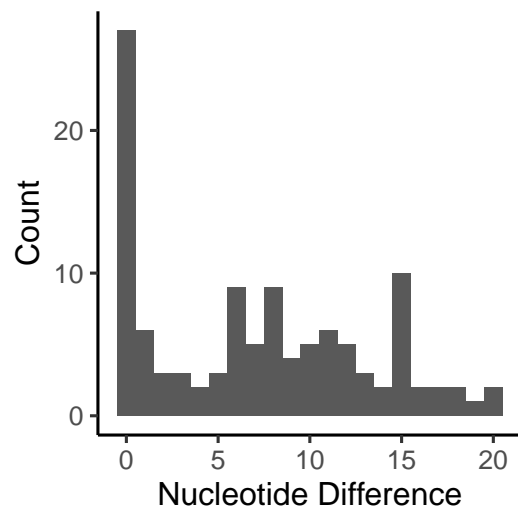
IGHV3-72*01

51 sequences assigned
3 (5.9%) exact matches, in which:
3 unique CDR3
2 unique J



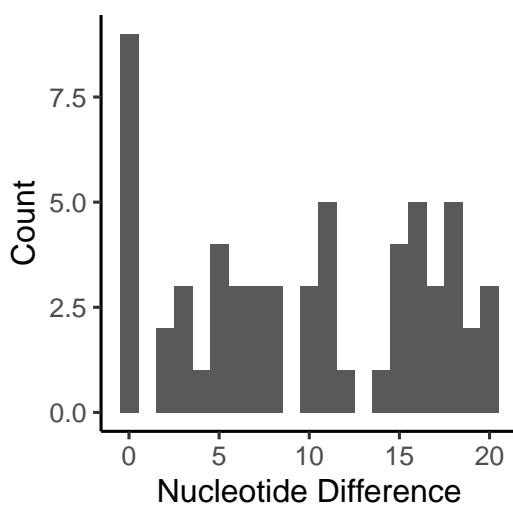
IGHV3-48*03

131 sequences assigned
27 (20.6%) exact matches, in which:
27 unique CDR3
4 unique J



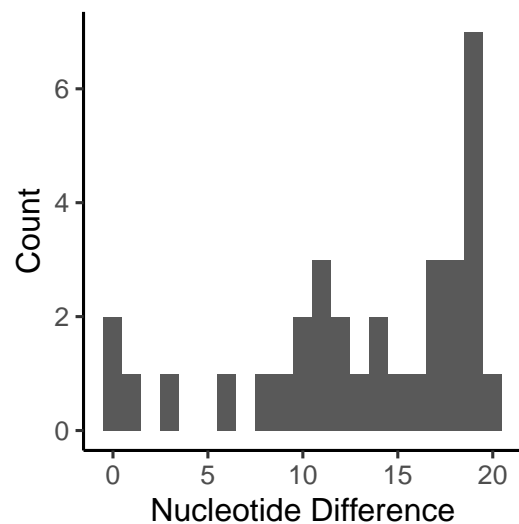
IGHV3-53*01

74 sequences assigned
9 (12.2%) exact matches, in which:
9 unique CDR3
3 unique J



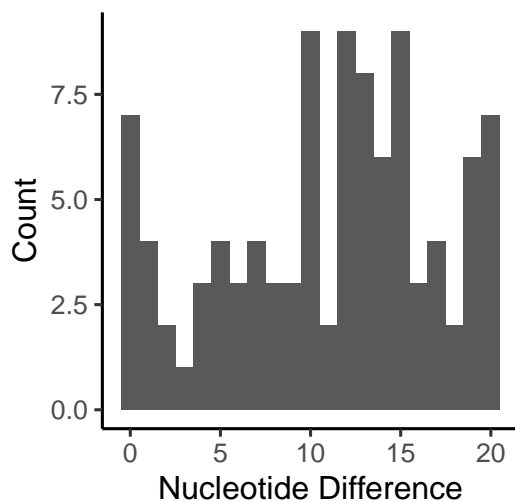
IGHV3-73*02

36 sequences assigned
2 (5.6%) exact matches, in which:
2 unique CDR3
2 unique J



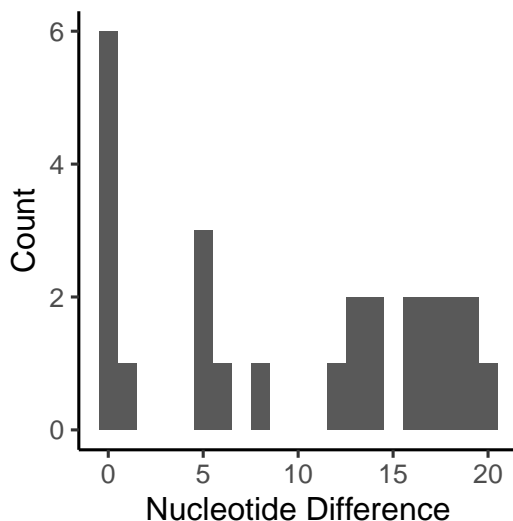
IGHV3-74*01

119 sequences assigned
7 (5.9%) exact matches, in which:
7 unique CDR3
4 unique J



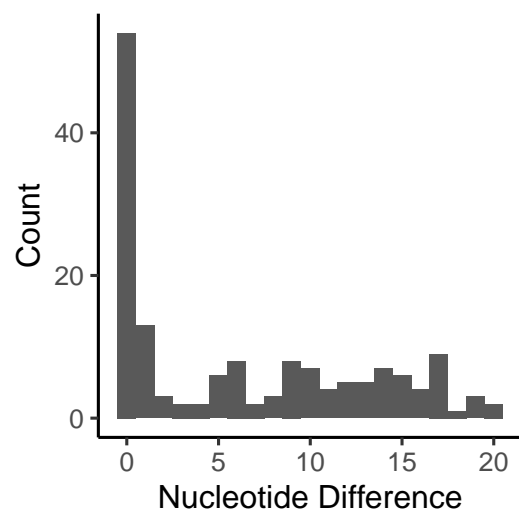
IGHV4-30-2*01

30 sequences assigned
6 (20%) exact matches, in which:
6 unique CDR3
3 unique J



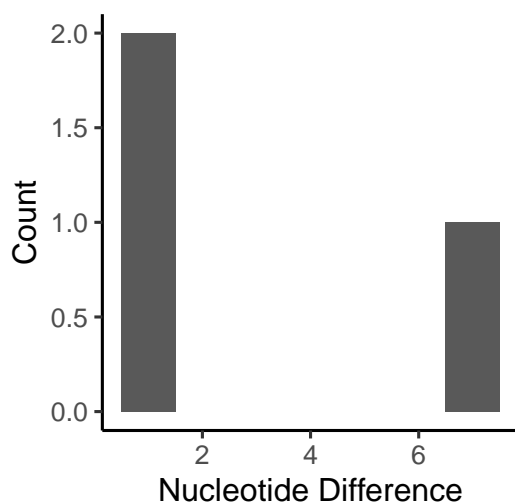
IGHV4-34*01

181 sequences assigned
54 (29.8%) exact matches, in which:
53 unique CDR3
6 unique J



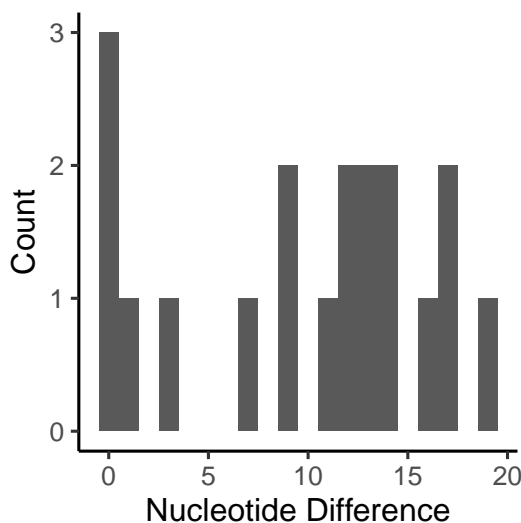
IGHV3-43D*04

3 sequences assigned
No exact matches.



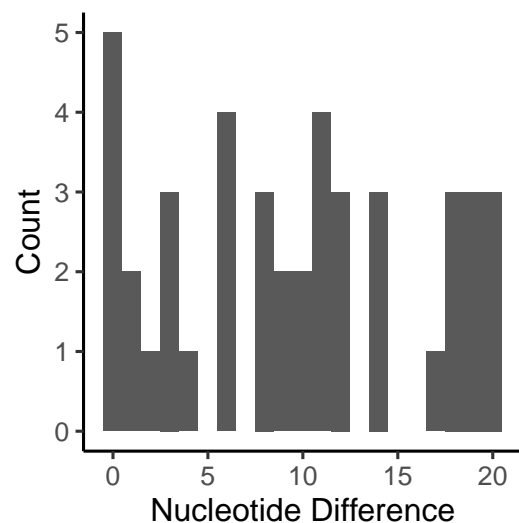
IGHV4-30-4*01

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



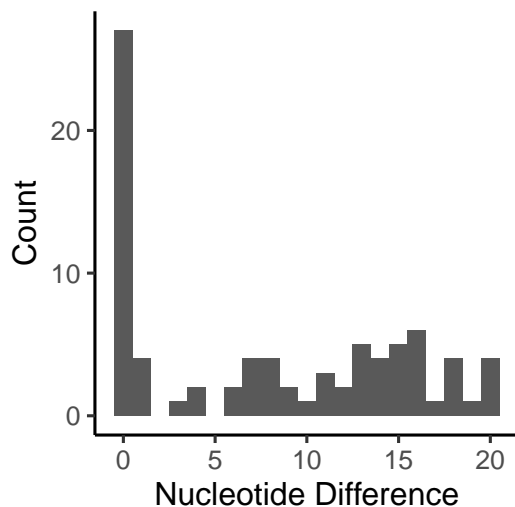
IGHV4-38-2*01

51 sequences assigned
5 (9.8%) exact matches, in which:
5 unique CDR3
2 unique J



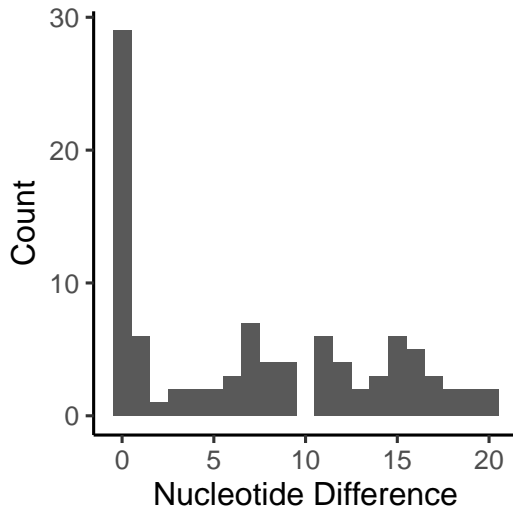
IGHV4-4*02

94 sequences assigned
27 (28.7%) exact matches, in which:
26 unique CDR3
5 unique J



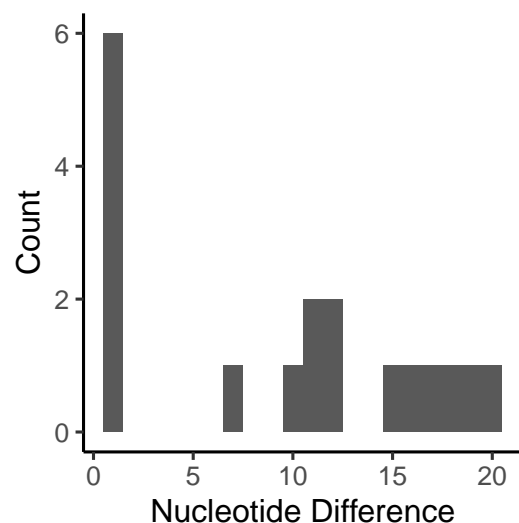
IGHV4-31*03

127 sequences assigned
29 (22.8%) exact matches, in which:
27 unique CDR3
4 unique J



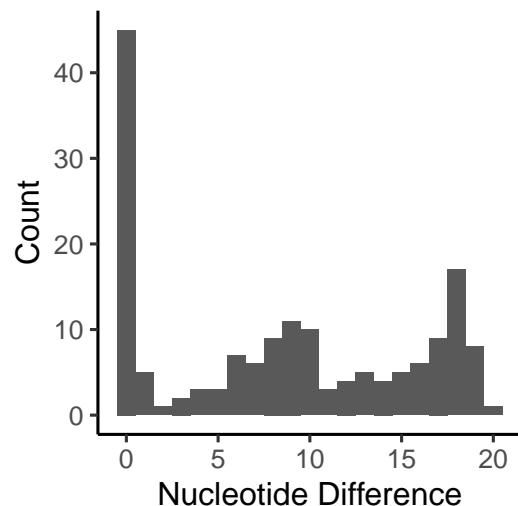
IGHV4-38-2*02

24 sequences assigned
No exact matches.



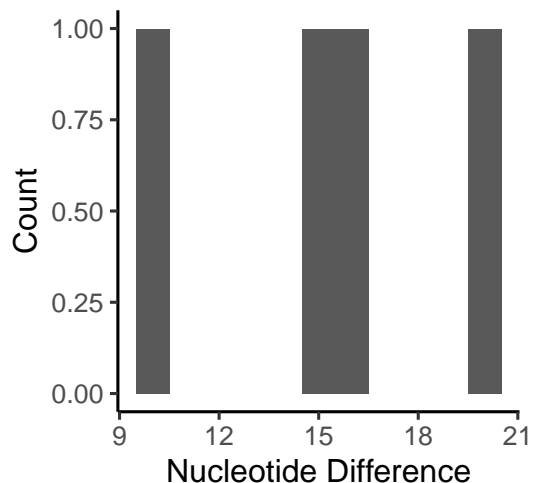
IGHV4-39*01

246 sequences assigned
45 (18.3%) exact matches, in which:
44 unique CDR3
6 unique J



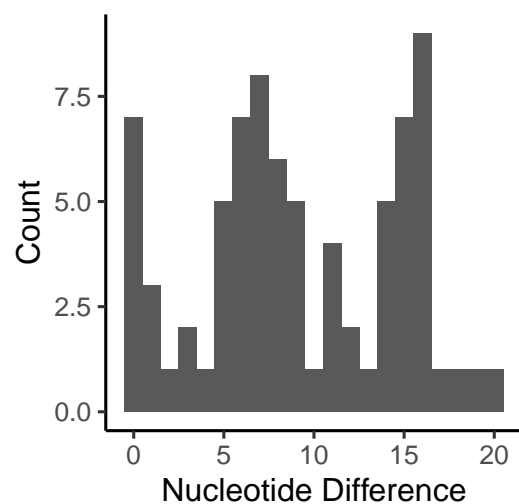
IGHV4-61*03

6 sequences assigned
No exact matches.



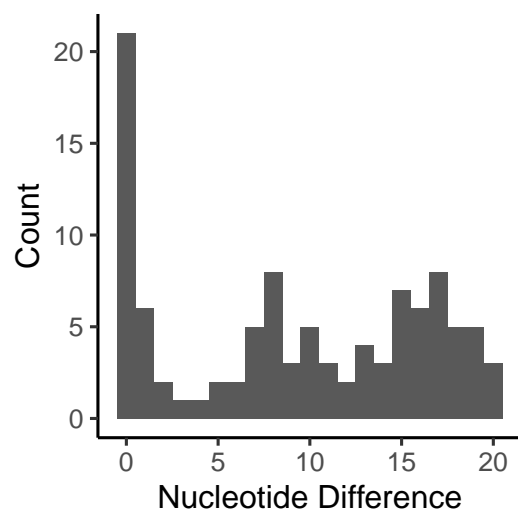
IGHV7-4-1*02

84 sequences assigned
7 (8.3%) exact matches, in which:
7 unique CDR3
2 unique J



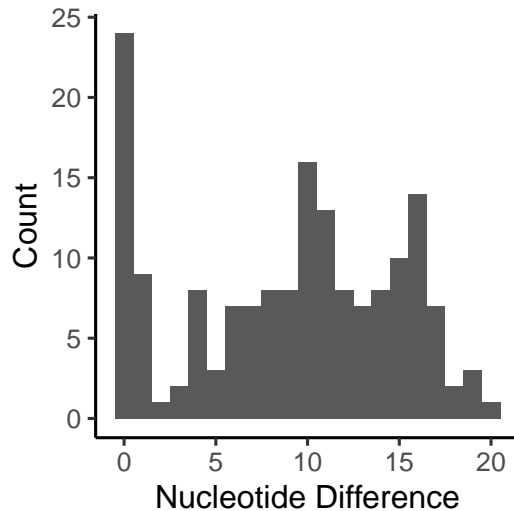
IGHV4-59*01

140 sequences assigned
21 (15%) exact matches, in which:
21 unique CDR3
3 unique J



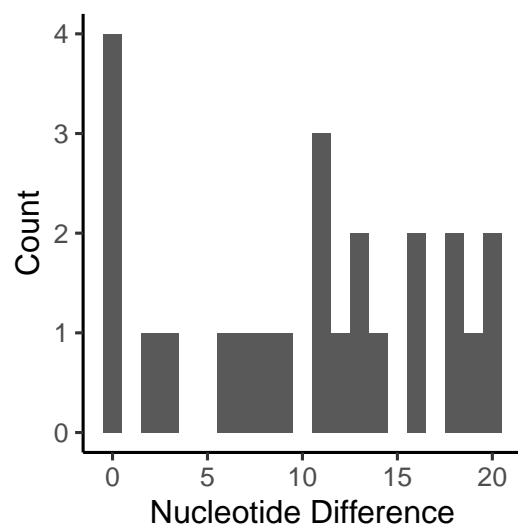
IGHV5-51*01

196 sequences assigned
24 (12.2%) exact matches, in which:
24 unique CDR3
4 unique J



IGHV4-61*01

27 sequences assigned
4 (14.8%) exact matches, in which:
4 unique CDR3
2 unique J



IGHV6-1*01

80 sequences assigned
14 (17.5%) exact matches, in which:
14 unique CDR3
3 unique J

