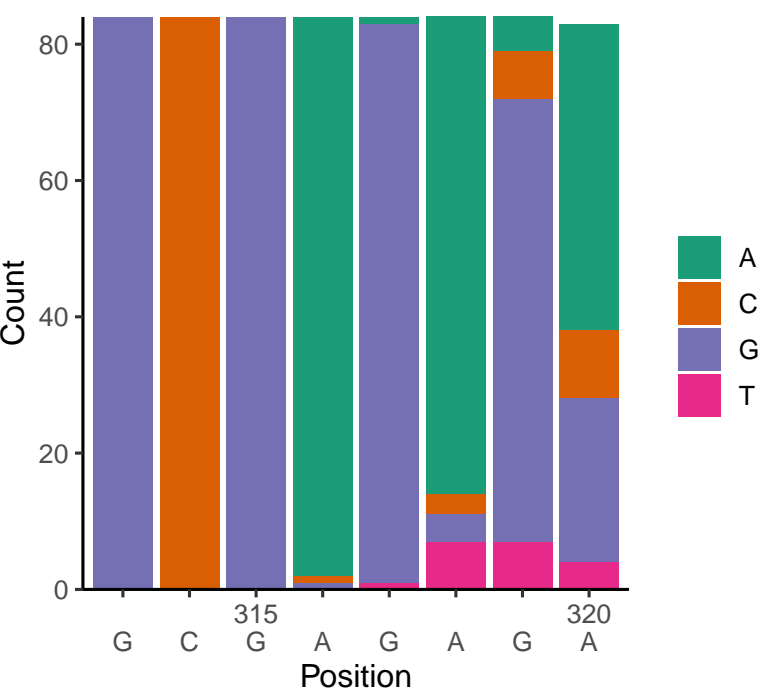
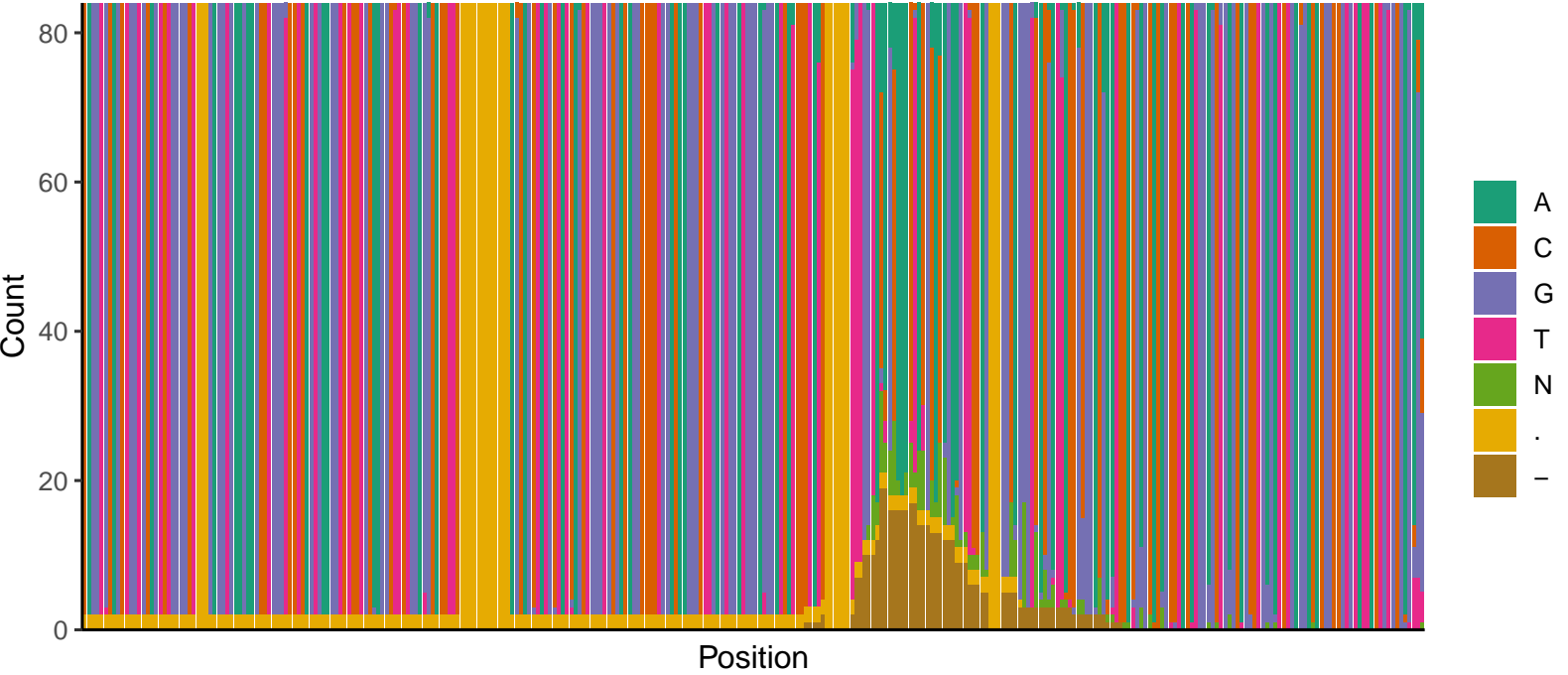


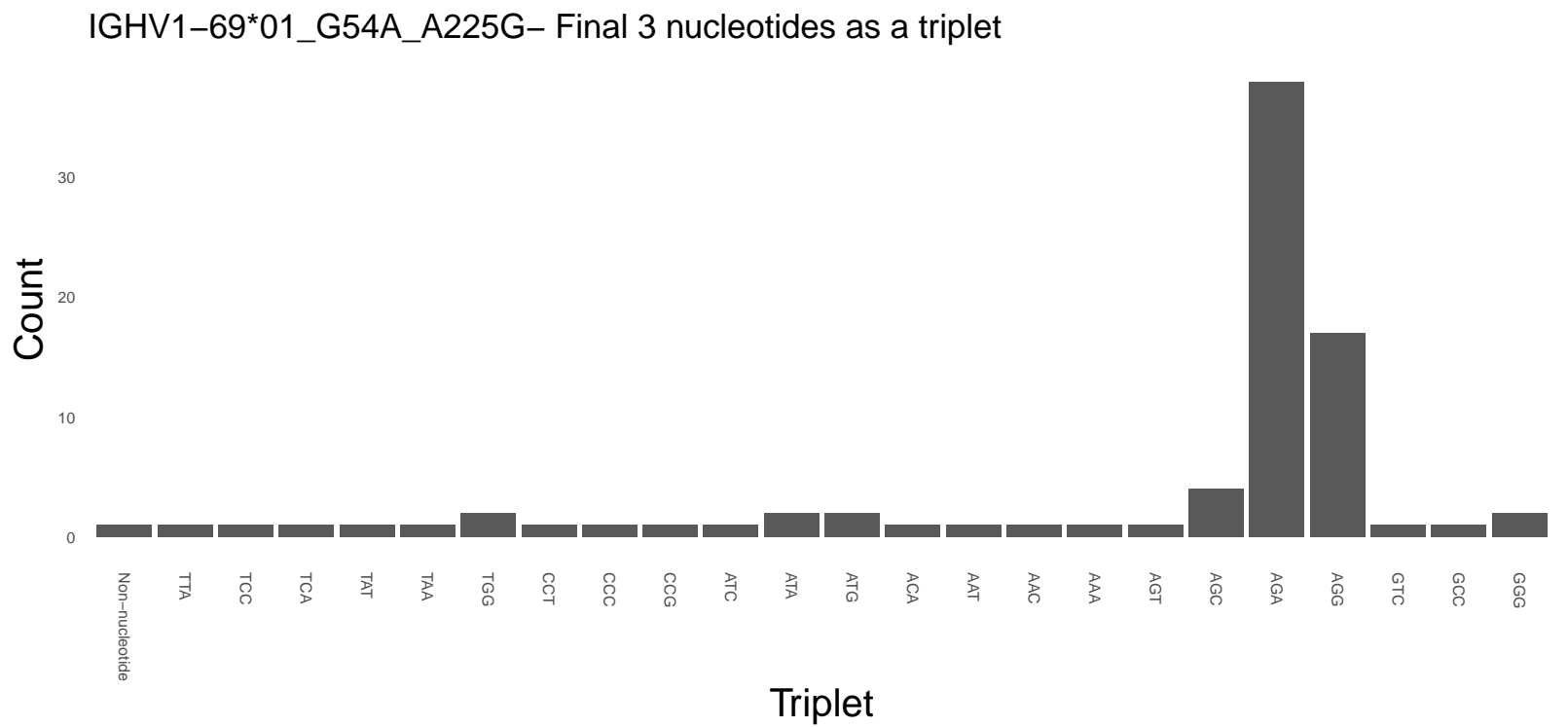
Gene IGHV1-69*01_G54A_A225G



Gene IGHV1-69*01_G54A_A225G

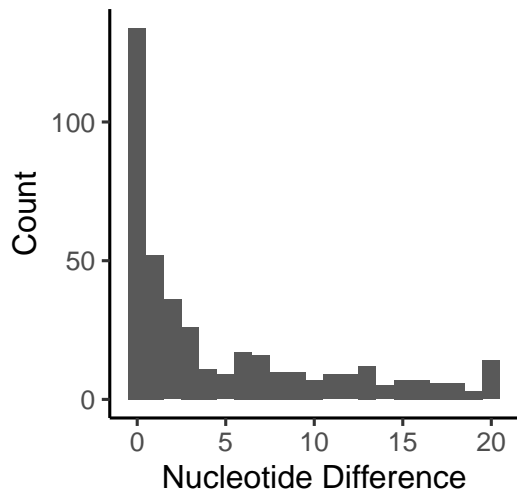


IGHV1-69*01_G54A_A225G- Final 3 nucleotides as a triplet



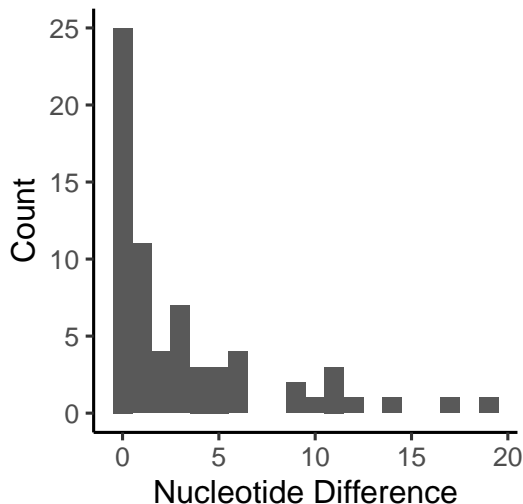
IGHV1-2*02

447 sequences assigned
134 (30%) exact matches, in which:
133 unique CDR3
6 unique J



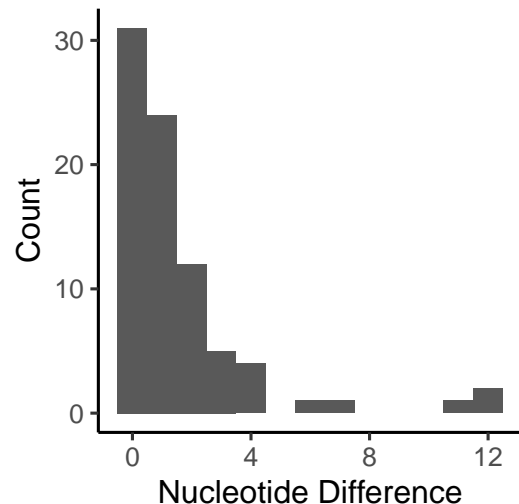
IGHV1-8*01

69 sequences assigned
25 (36.2%) exact matches, in which:
25 unique CDR3
5 unique J



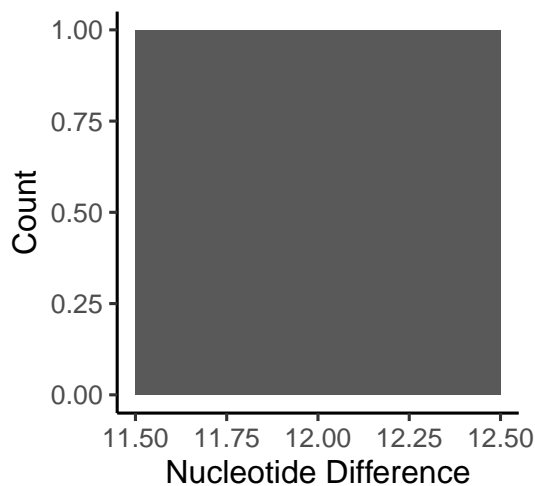
IGHV1-24*01

82 sequences assigned
31 (37.8%) exact matches, in which:
31 unique CDR3
5 unique J



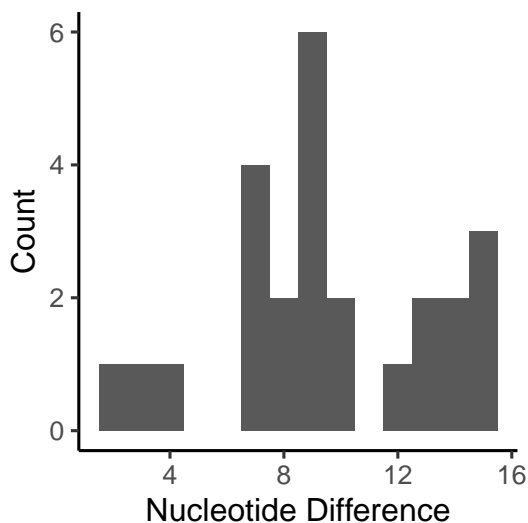
IGHV1-3*01

1 sequences assigned
No exact matches.



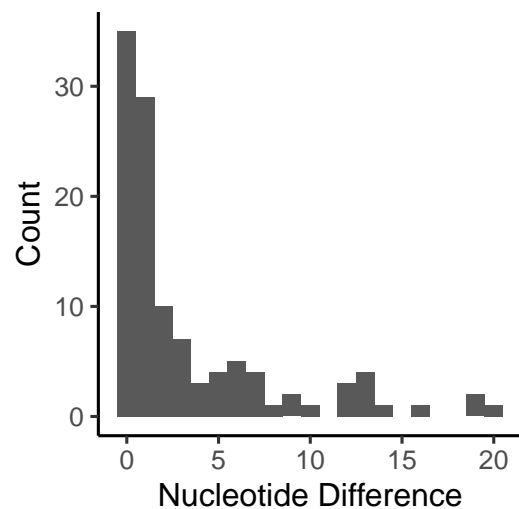
IGHV1-8*02

25 sequences assigned
No exact matches.



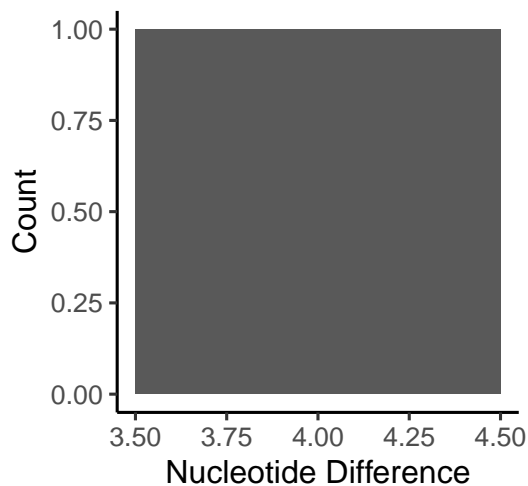
IGHV1-46*01

118 sequences assigned
35 (29.7%) exact matches, in which:
34 unique CDR3
4 unique J



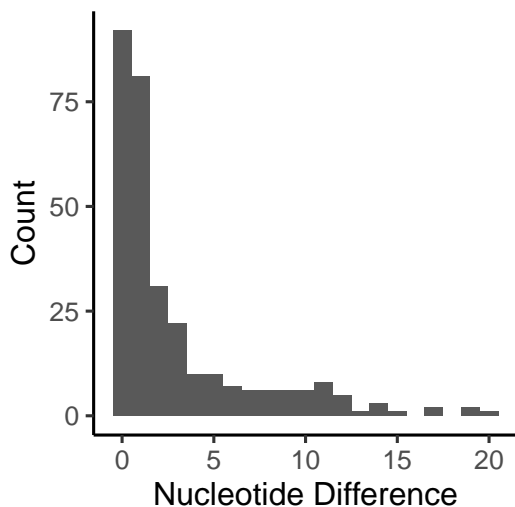
IGHV1-3*02

1 sequences assigned
No exact matches.



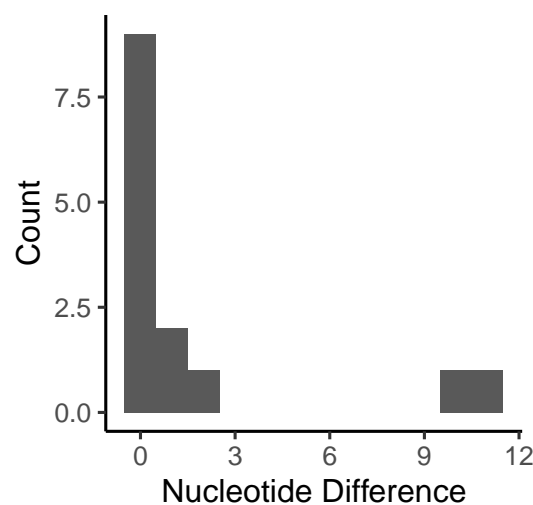
IGHV1-18*01

309 sequences assigned
92 (29.8%) exact matches, in which:
92 unique CDR3
5 unique J



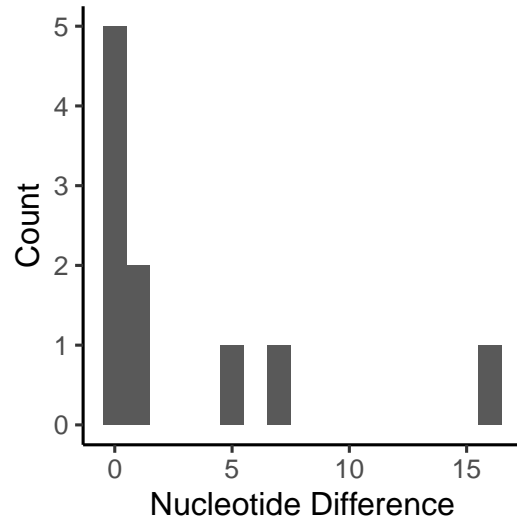
IGHV1-58*01

14 sequences assigned
9 (64.3%) exact matches, in which:
9 unique CDR3
4 unique J



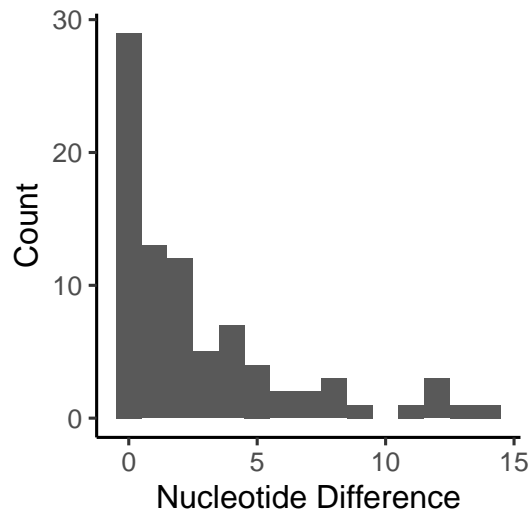
IGHV1-58*02

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



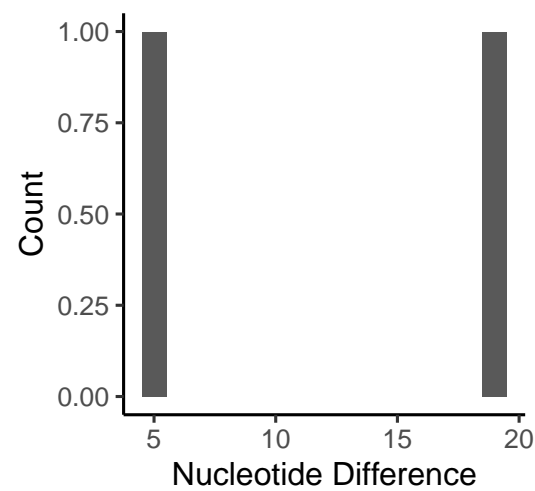
IGHV1-69*01_G54A_A225V

84 sequences assigned
29 (34.5%) exact matches, in which:
29 unique CDR3
5 unique J



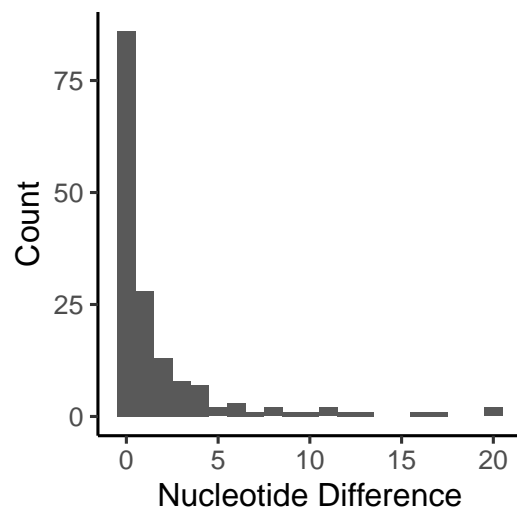
IGHV1-NL1*01

2 sequences assigned
No exact matches.



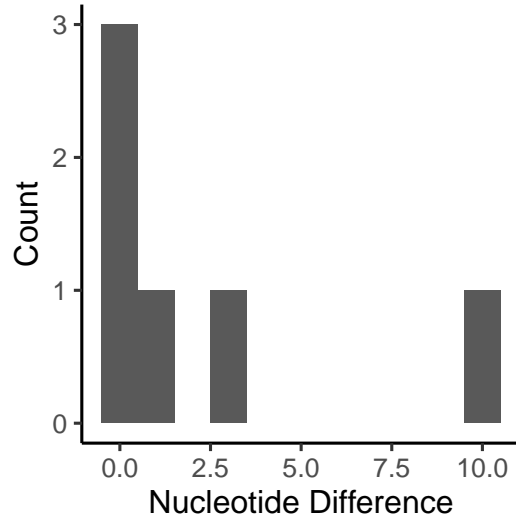
IGHV1-69*04

165 sequences assigned
86 (52.1%) exact matches, in which:
84 unique CDR3
6 unique J



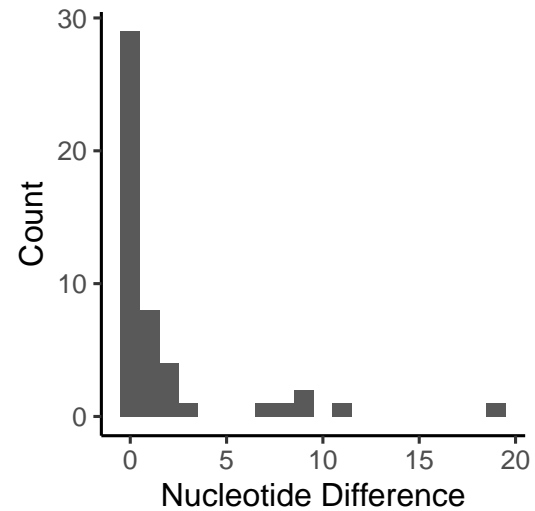
IGHV1-69*13

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



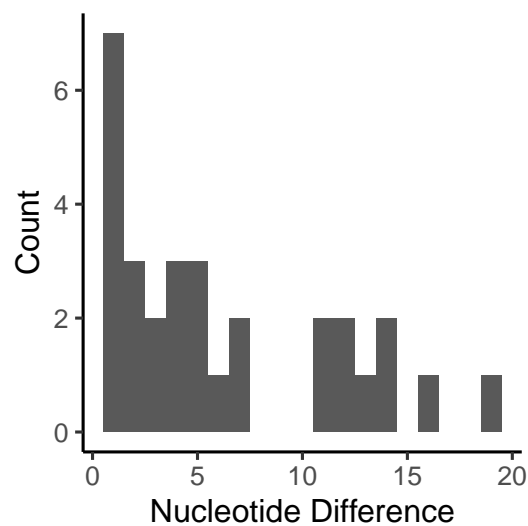
IGHV2-5*01

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



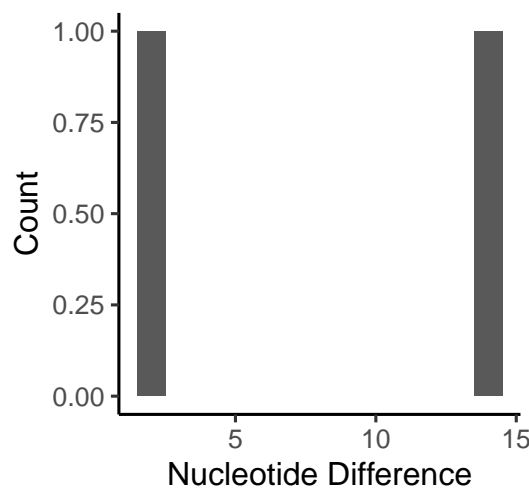
IGHV1-69*06

32 sequences assigned
No exact matches.



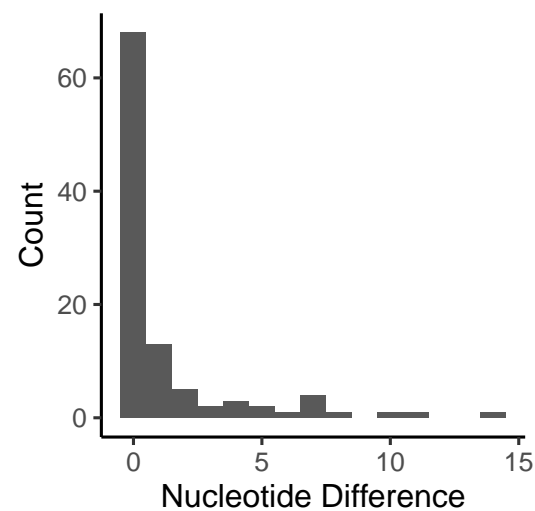
IGHV1-69D*01

2 sequences assigned
No exact matches.



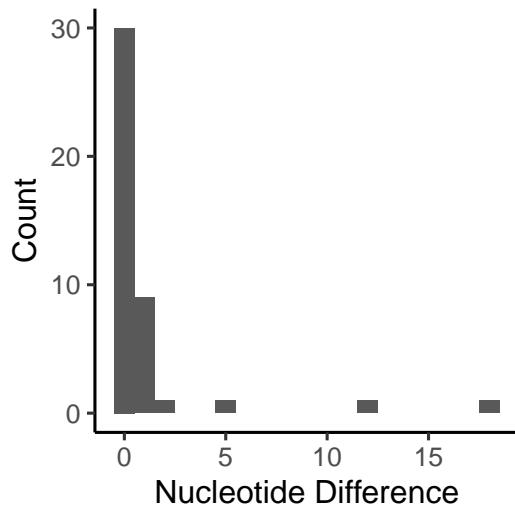
IGHV2-5*02

103 sequences assigned
68 (66%) exact matches, in which:
68 unique CDR3
5 unique J



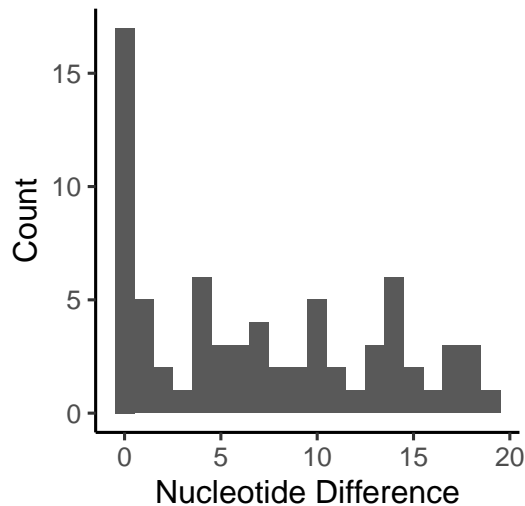
IGHV2-26*01

44 sequences assigned
30 (68.2%) exact matches, in which:
30 unique CDR3
5 unique J



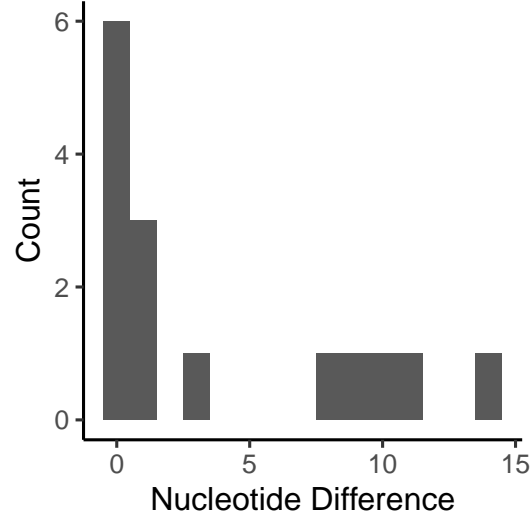
IGHV3-7*01

85 sequences assigned
17 (20%) exact matches, in which:
16 unique CDR3
4 unique J



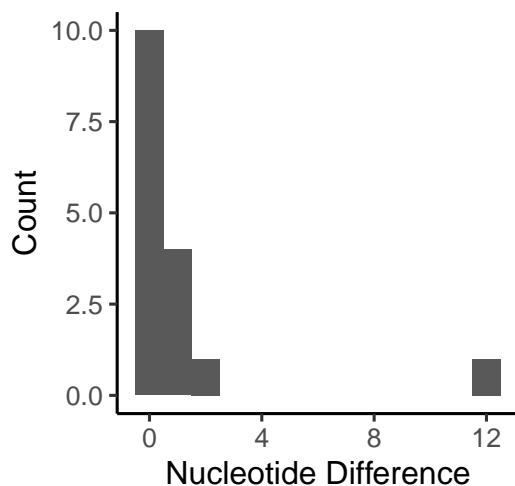
IGHV3-11*01

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



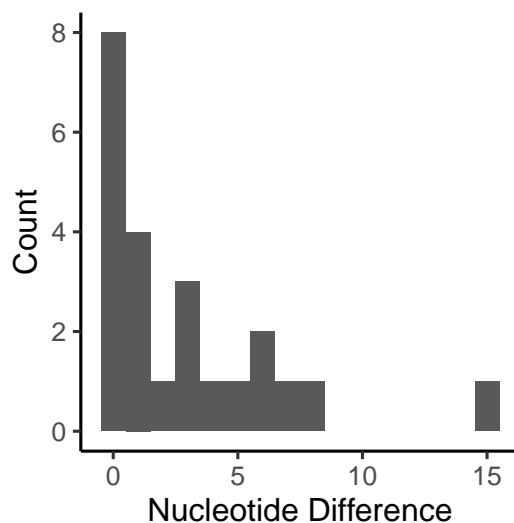
IGHV2-70*01

16 sequences assigned
10 (62.5%) exact matches, in which:
10 unique CDR3
4 unique J



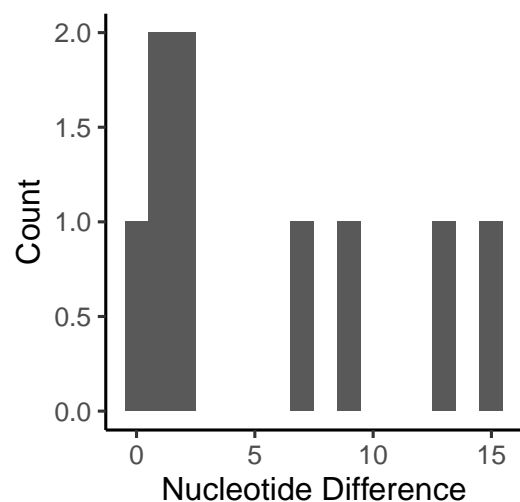
IGHV3-7*05

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



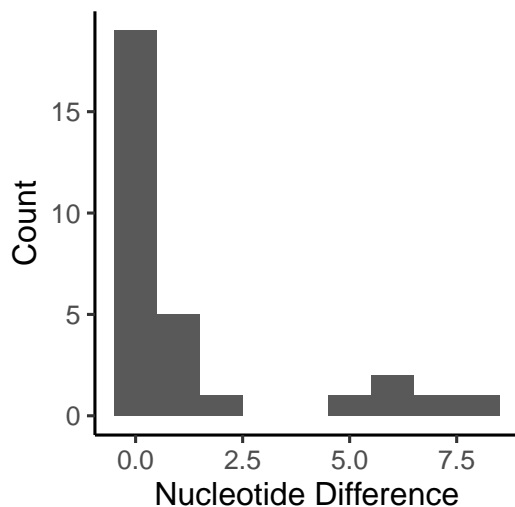
IGHV3-11*04

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



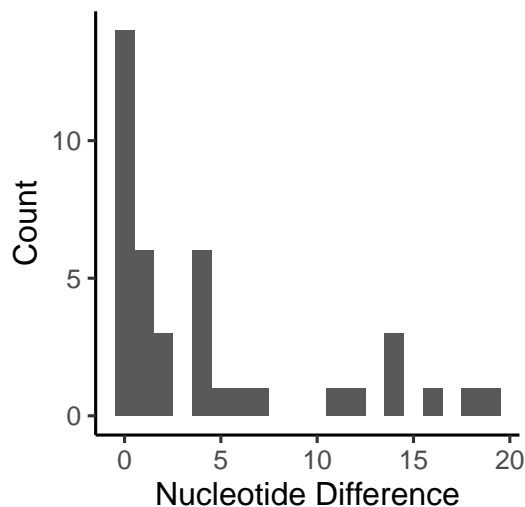
IGHV2-70*15

34 sequences assigned
19 (55.9%) exact matches, in which:
18 unique CDR3
4 unique J



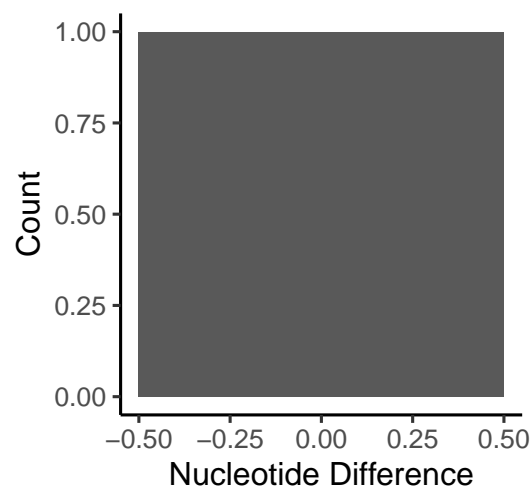
IGHV3-9*01

42 sequences assigned
14 (33.3%) exact matches, in which:
14 unique CDR3
3 unique J



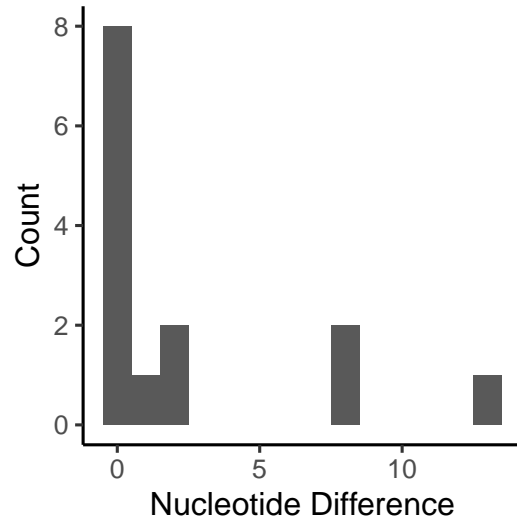
IGHV3-11*05

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



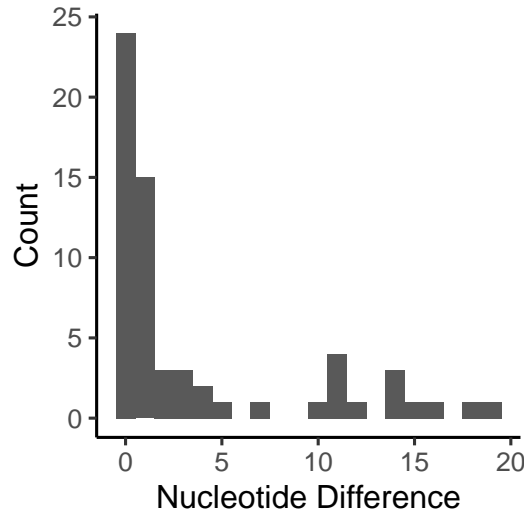
IGHV3-11*06

14 sequences assigned
8 (57.1%) exact matches, in which:
8 unique CDR3
3 unique J



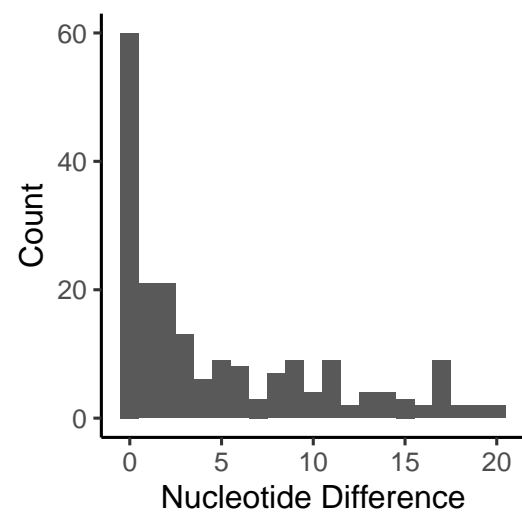
IGHV3-15*01

68 sequences assigned
24 (35.3%) exact matches, in which:
19 unique CDR3
6 unique J



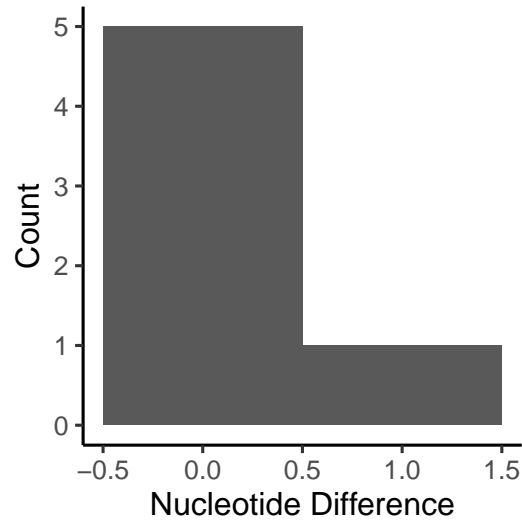
IGHV3-21*01

207 sequences assigned
60 (29%) exact matches, in which:
60 unique CDR3
5 unique J



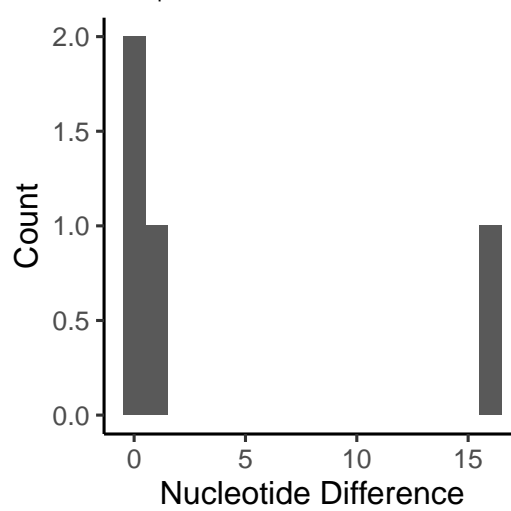
IGHV3-13*01

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
3 unique J



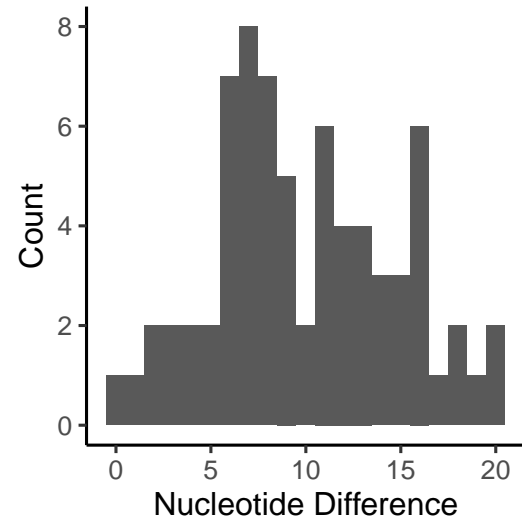
IGHV3-20*01

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



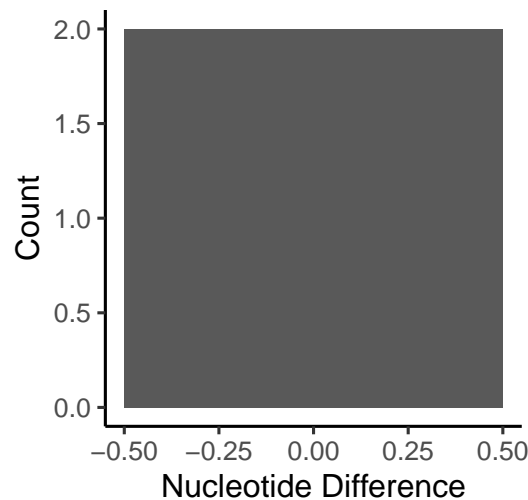
IGHV3-23*04

76 sequences assigned
1 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



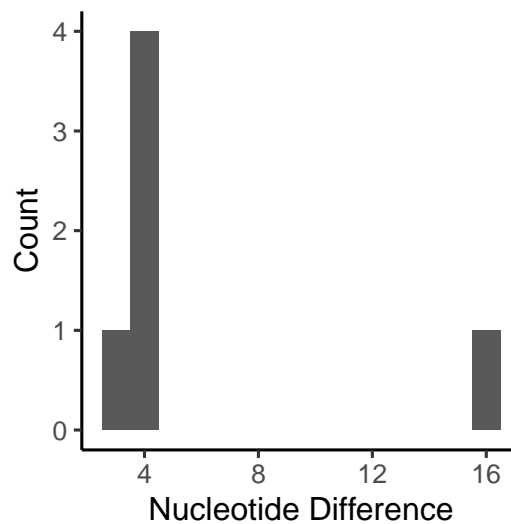
IGHV3-13*05

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



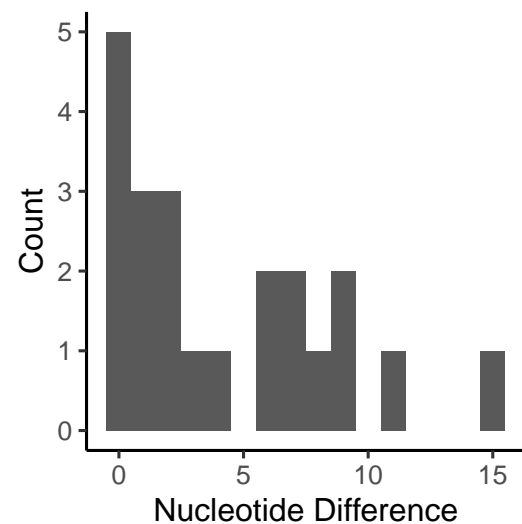
IGHV3-20*04

10 sequences assigned
No exact matches.



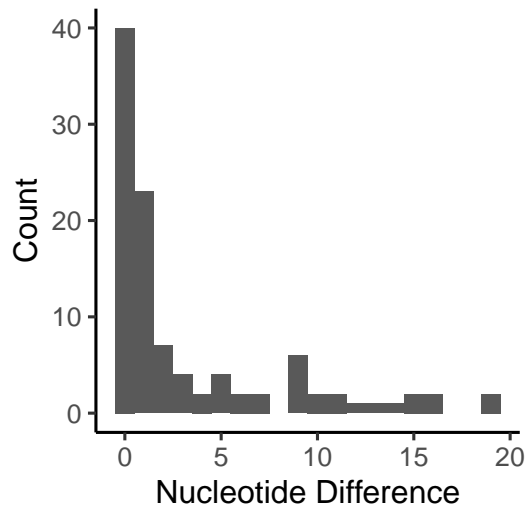
IGHV3-30*03

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



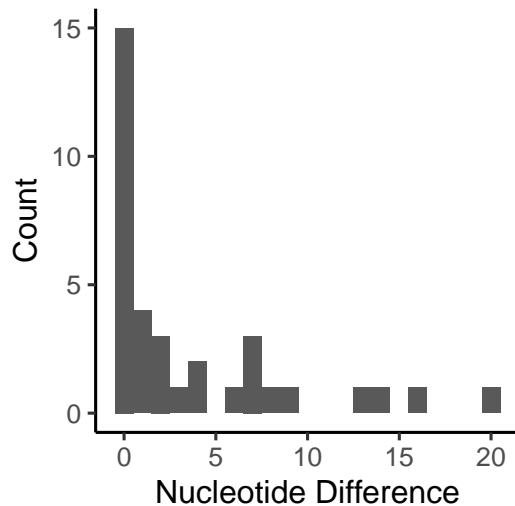
IGHV3-33*01

103 sequences assigned
40 (38.8%) exact matches, in which:
37 unique CDR3
5 unique J



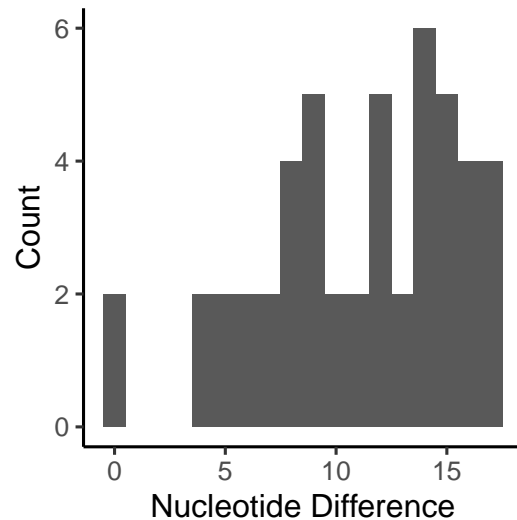
IGHV3-43*02

36 sequences assigned
15 (41.7%) exact matches, in which:
14 unique CDR3
5 unique J



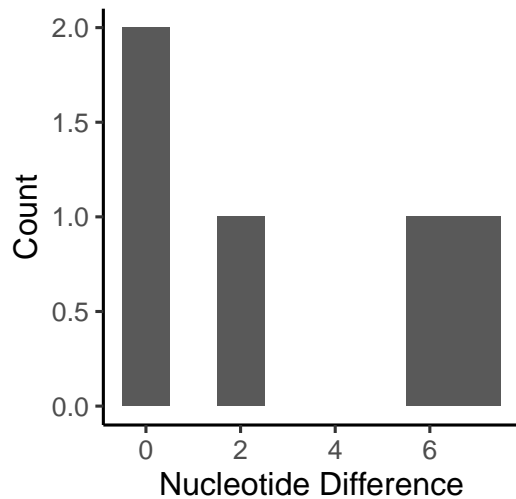
IGHV3-48*04

52 sequences assigned
2 (3.8%) exact matches, in which:
2 unique CDR3
2 unique J



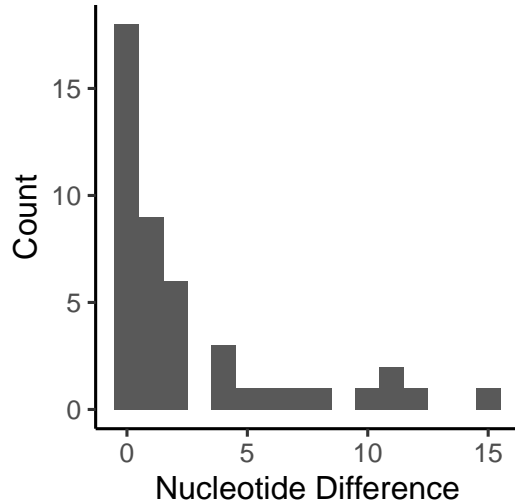
IGHV3-33*05

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



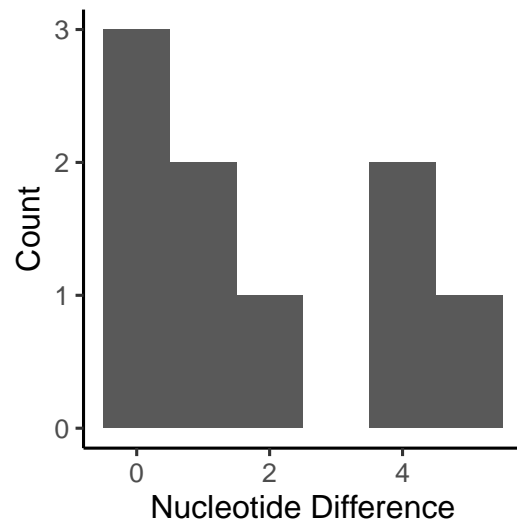
IGHV3-48*02

45 sequences assigned
18 (40%) exact matches, in which:
18 unique CDR3
3 unique J



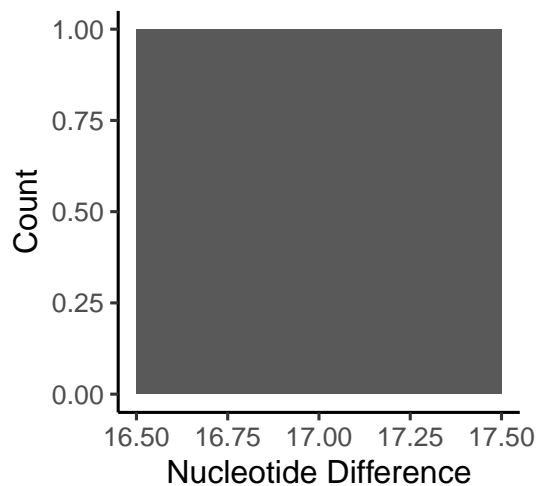
IGHV3-49*04

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
3 unique J



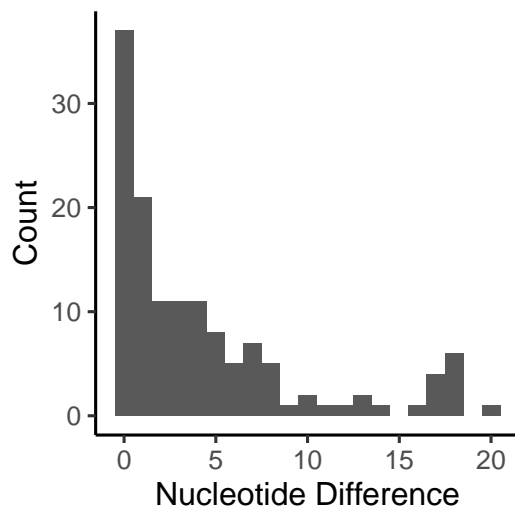
IGHV3-38-3*01

1 sequences assigned
No exact matches.



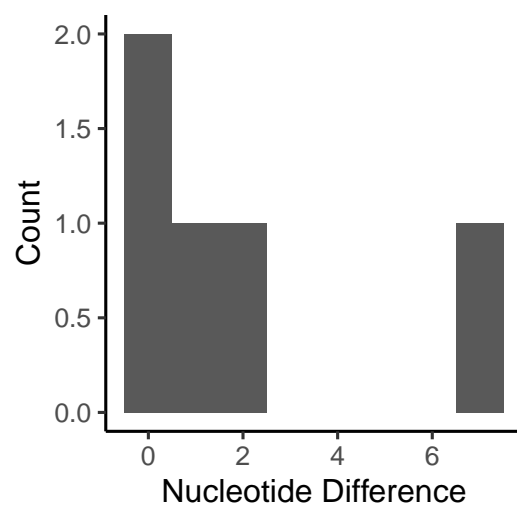
IGHV3-48*03

140 sequences assigned
37 (26.4%) exact matches, in which:
37 unique CDR3
5 unique J



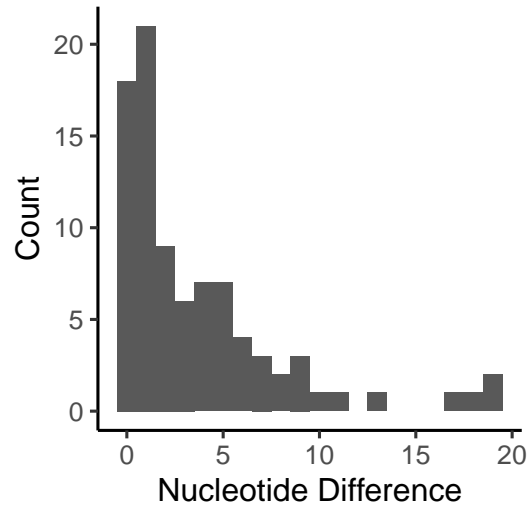
IGHV3-49*05

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



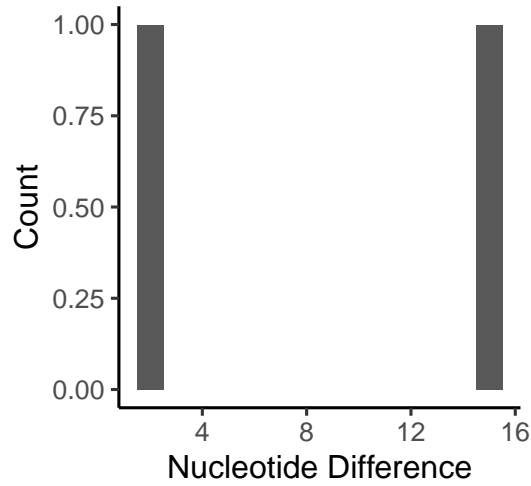
IGHV3-53*01

89 sequences assigned
18 (20.2%) exact matches, in which:
18 unique CDR3
4 unique J



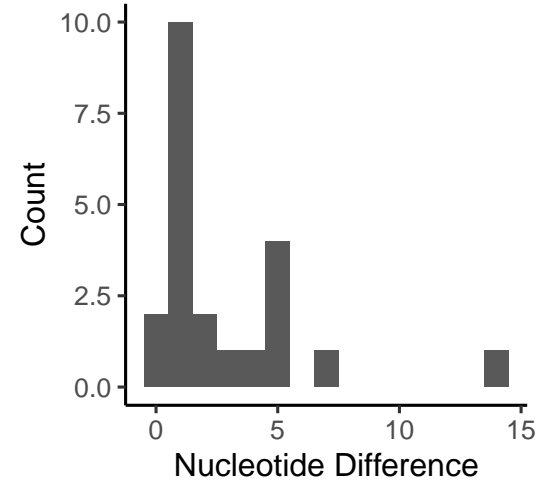
IGHV3-64*04

3 sequences assigned
No exact matches.



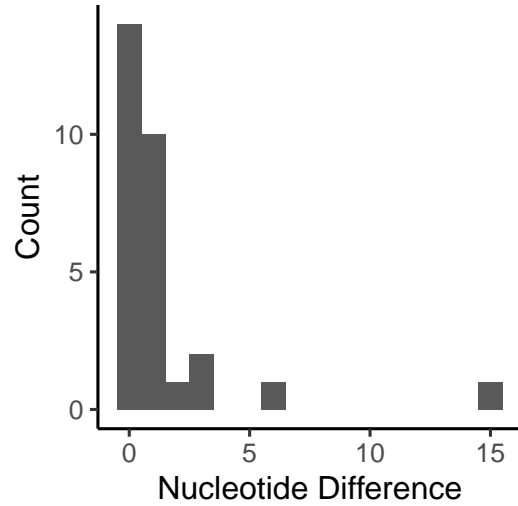
IGHV3-66*03

23 sequences assigned
2 (8.7%) exact matches, in which:
2 unique CDR3
1 unique J



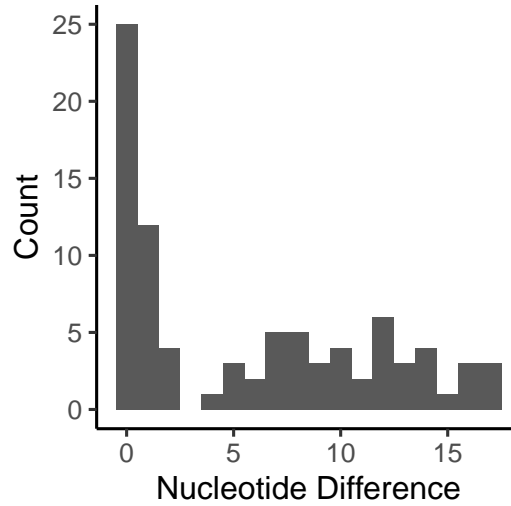
IGHV3-53*04

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



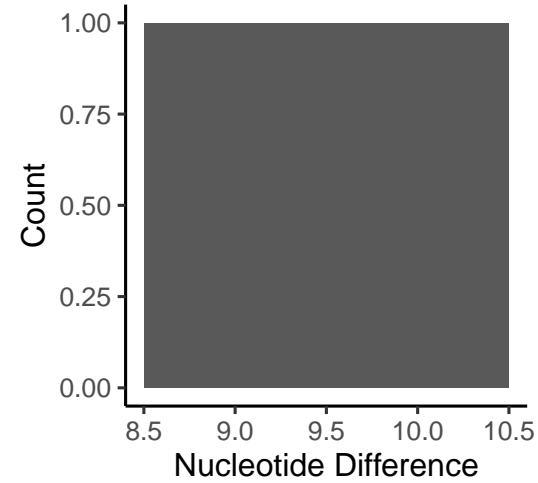
IGHV3-66*01

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



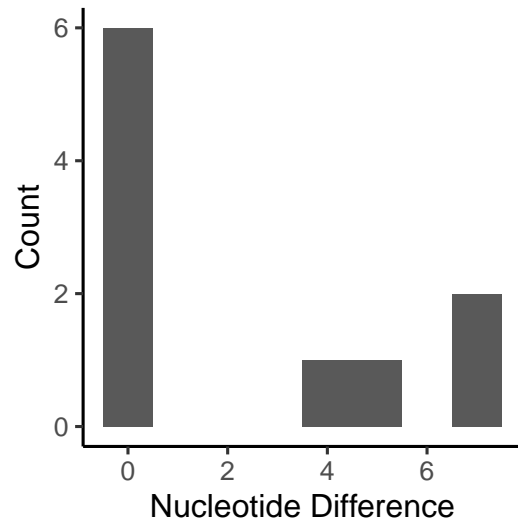
IGHV3-69-1*01

3 sequences assigned
No exact matches.



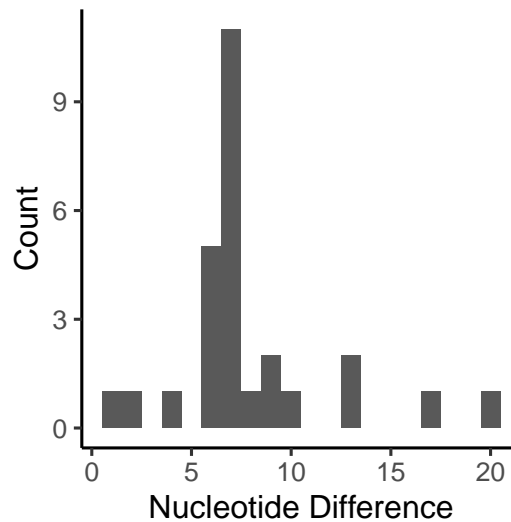
IGHV3-64*01

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



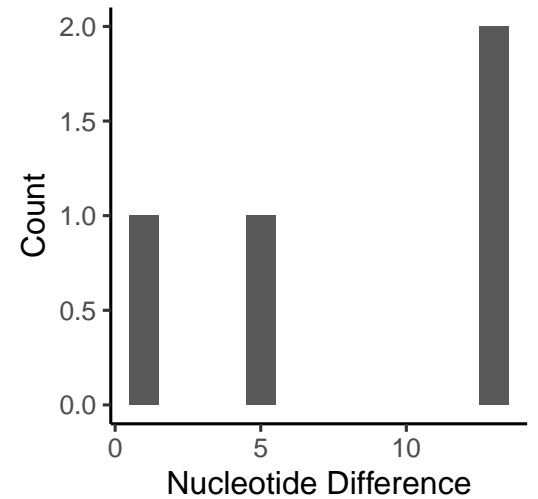
IGHV3-66*02

31 sequences assigned
No exact matches.



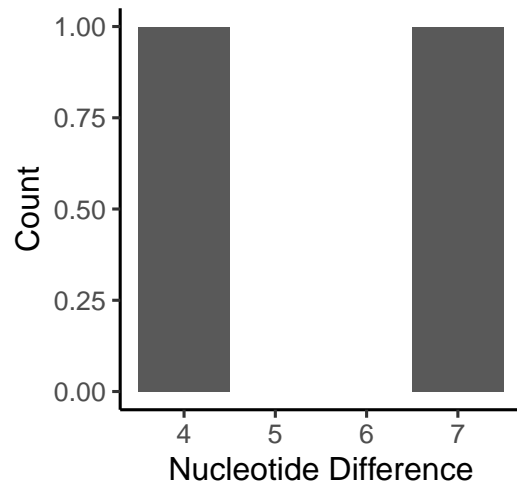
IGHV3-72*01

5 sequences assigned
No exact matches.



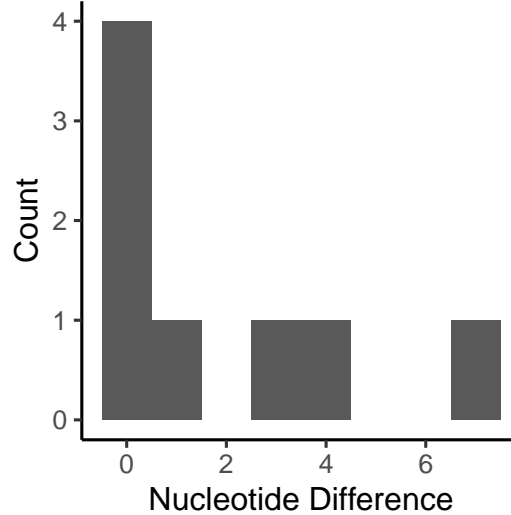
IGHV3-73*01

3 sequences assigned
No exact matches.



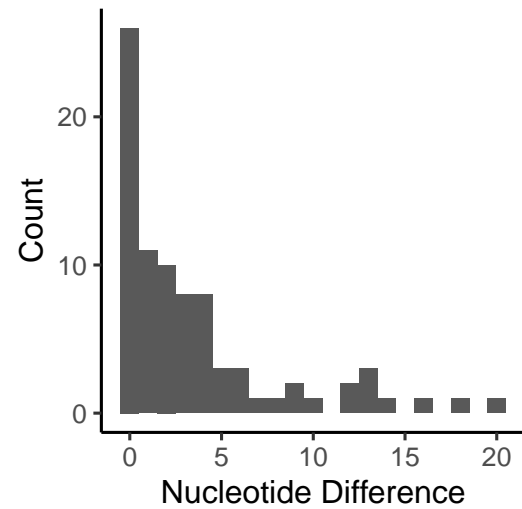
IGHV3-64D*09

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



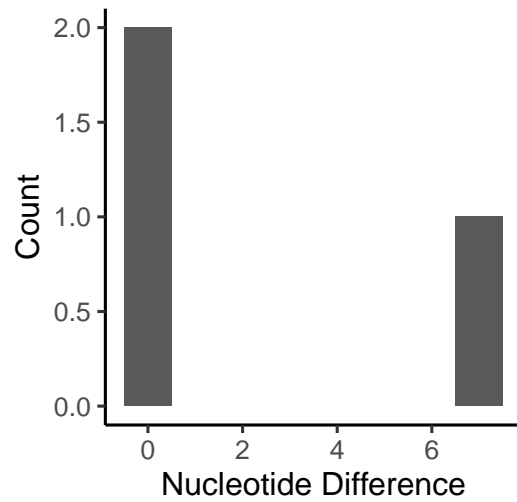
IGHV4-31*03

85 sequences assigned
26 (30.6%) exact matches, in which:
26 unique CDR3
5 unique J



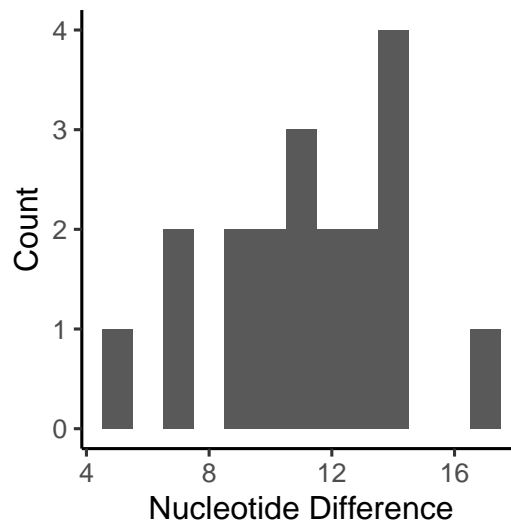
IGHV3-73*02

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



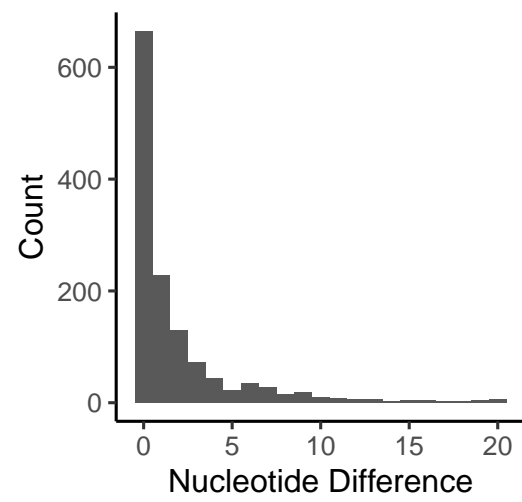
IGHV3-NL1*01

20 sequences assigned
No exact matches.



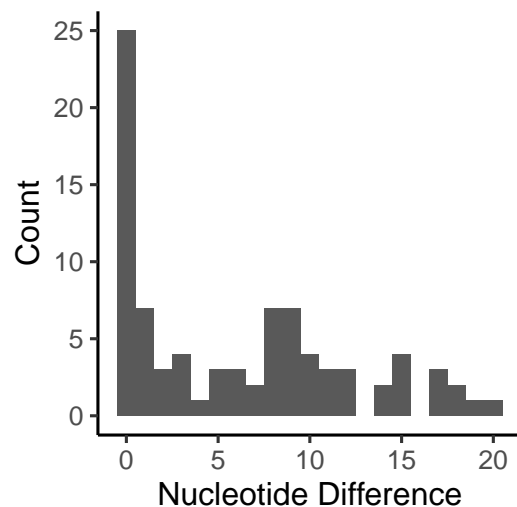
IGHV4-34*01

1340 sequences assigned
665 (49.6%) exact matches, in which:
657 unique CDR3
6 unique J



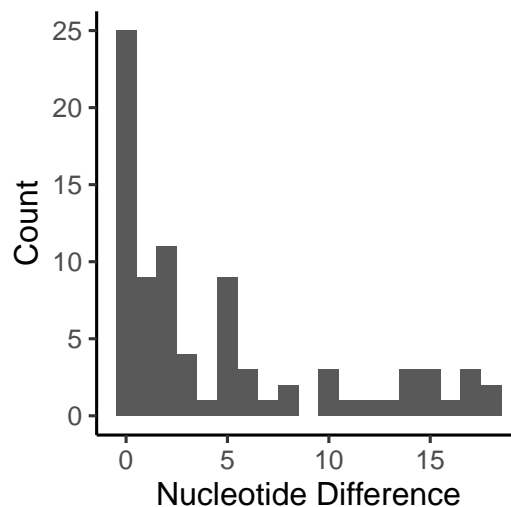
IGHV3-74*01

90 sequences assigned
25 (27.8%) exact matches, in which:
25 unique CDR3
4 unique J



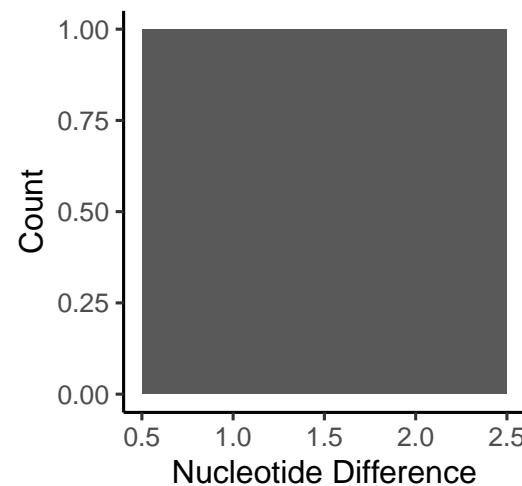
IGHV4-4*07

83 sequences assigned
25 (30.1%) exact matches, in which:
25 unique CDR3
5 unique J



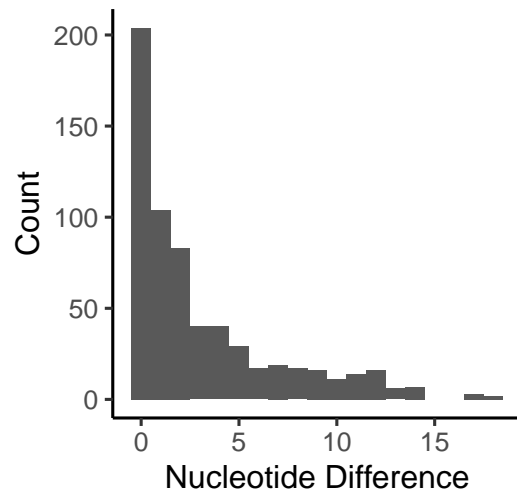
IGHV4-38-2*02

2 sequences assigned
No exact matches.



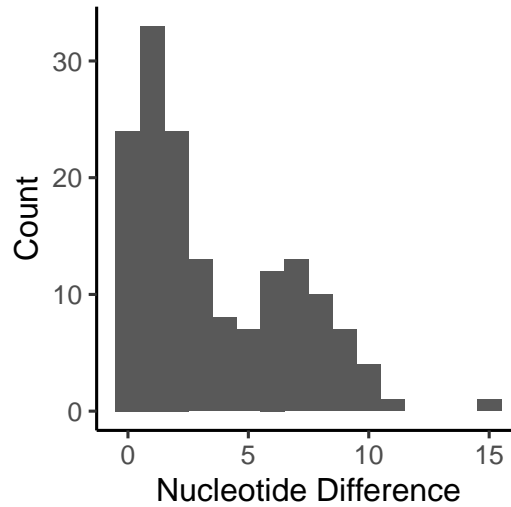
IGHV4–39*01

651 sequences assigned
204 (31.3%) exact matches, in which:
201 unique CDR3
6 unique J



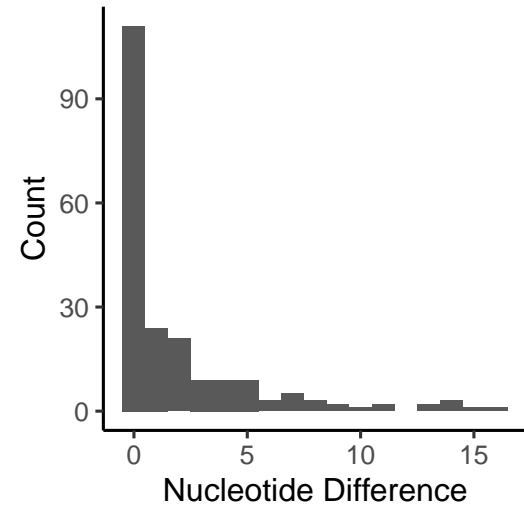
IGHV4–59*12

159 sequences assigned
24 (15.1%) exact matches, in which:
24 unique CDR3
4 unique J



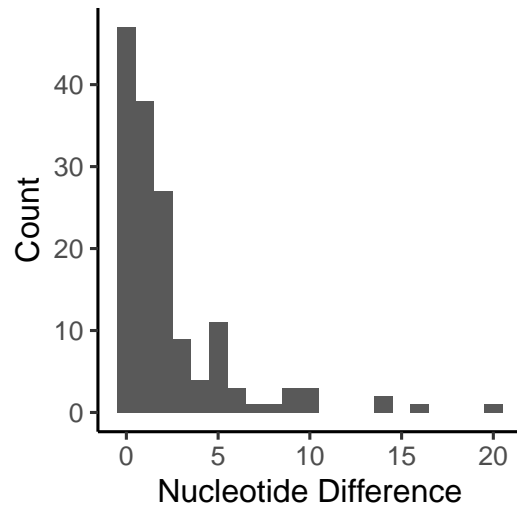
IGHV5–51*01

208 sequences assigned
111 (53.4%) exact matches, in which:
107 unique CDR3
6 unique J



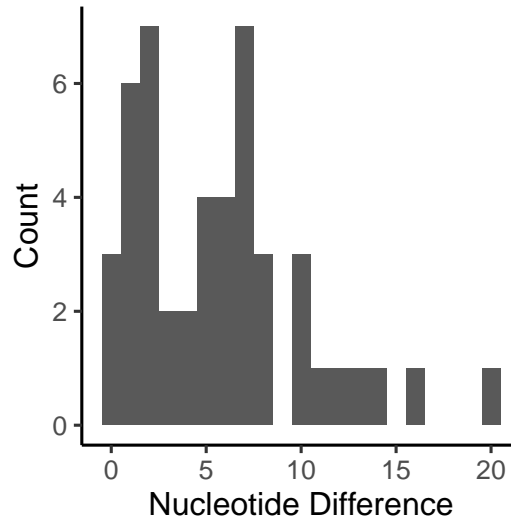
IGHV4–59*01

151 sequences assigned
47 (31.1%) exact matches, in which:
47 unique CDR3
6 unique J



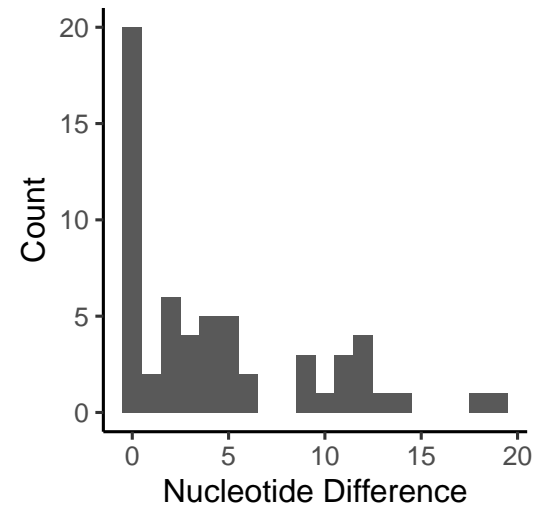
IGHV4–61*01

47 sequences assigned
3 (6.4%) exact matches, in which:
3 unique CDR3
2 unique J



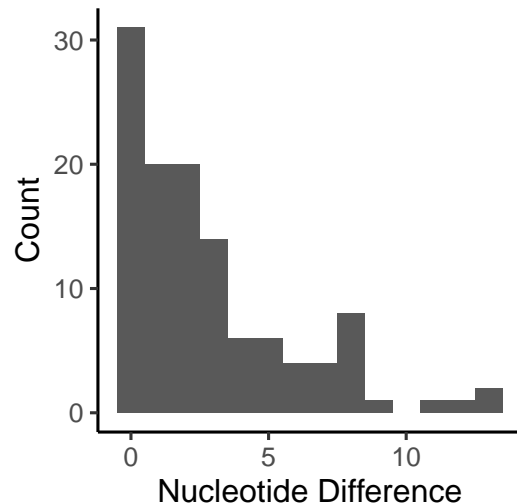
IGHV6–1*01

60 sequences assigned
20 (33.3%) exact matches, in which:
20 unique CDR3
5 unique J



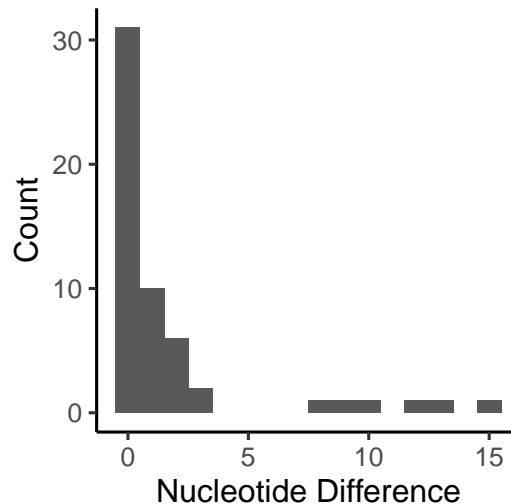
IGHV4–59*08

122 sequences assigned
31 (25.4%) exact matches, in which:
31 unique CDR3
5 unique J



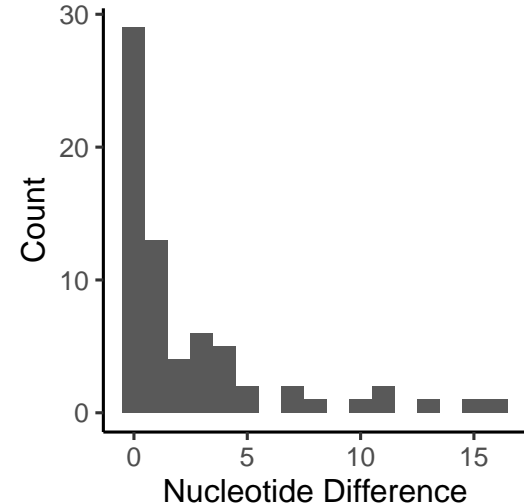
IGHV5–10–1*03

55 sequences assigned
31 (56.4%) exact matches, in which:
31 unique CDR3
4 unique J



IGHV7–4–1*02

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





Warning – no inferred sequences found.