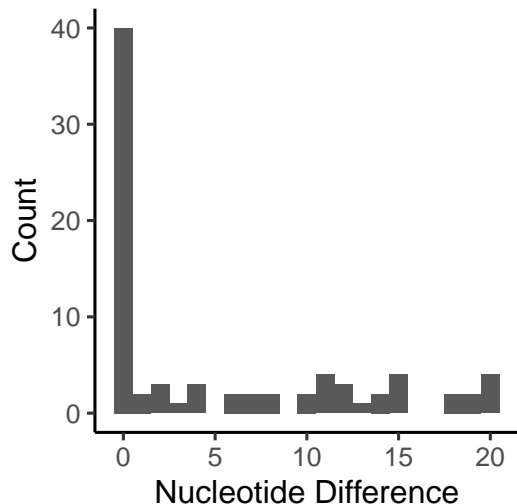


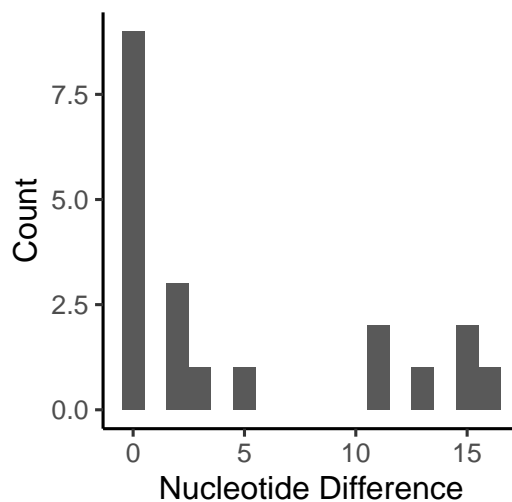
IGHV1-2*02

88 sequences assigned
40 (45.5%) exact matches, in which:
40 unique CDR3
5 unique J



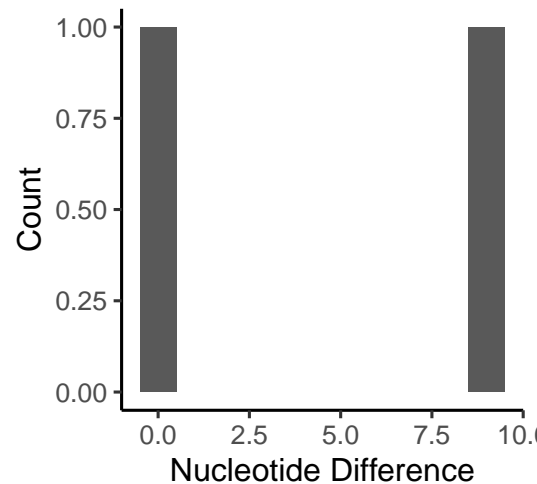
IGHV1-24*01

21 sequences assigned
9 (42.9%) exact matches, in which:
9 unique CDR3
4 unique J



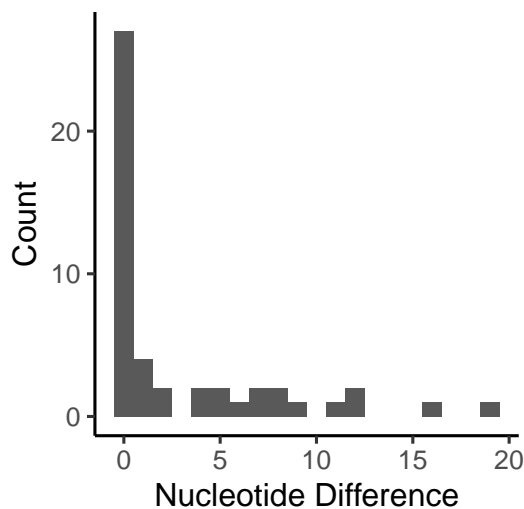
IGHV1-58*02

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



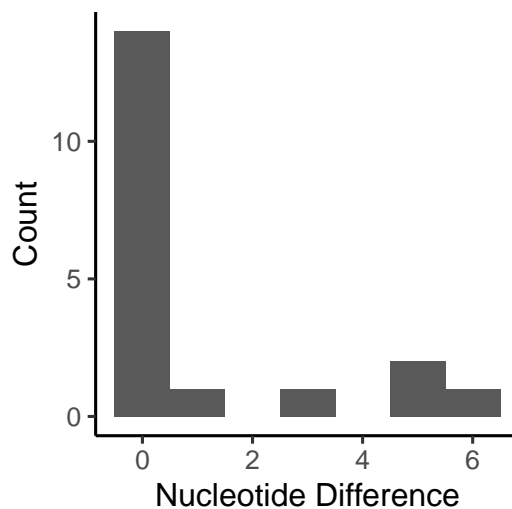
IGHV1-8*01

48 sequences assigned
27 (56.2%) exact matches, in which:
27 unique CDR3
5 unique J



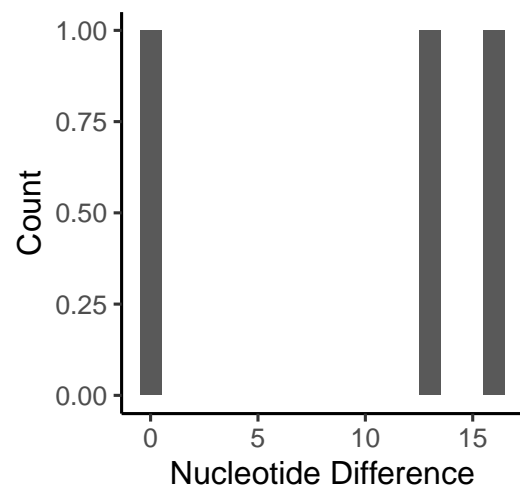
IGHV1-46*01

24 sequences assigned
14 (58.3%) exact matches, in which:
14 unique CDR3
5 unique J



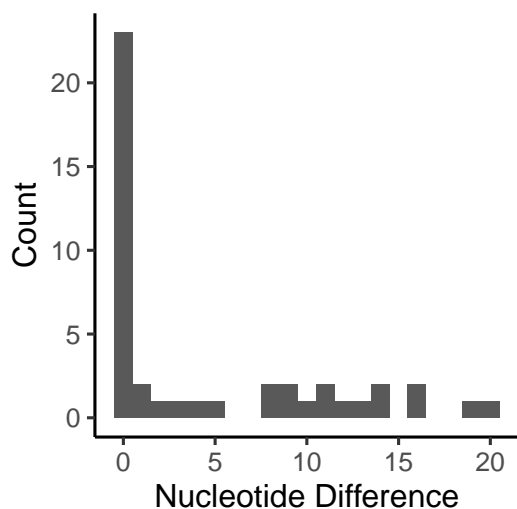
IGHV1-69-2*01

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



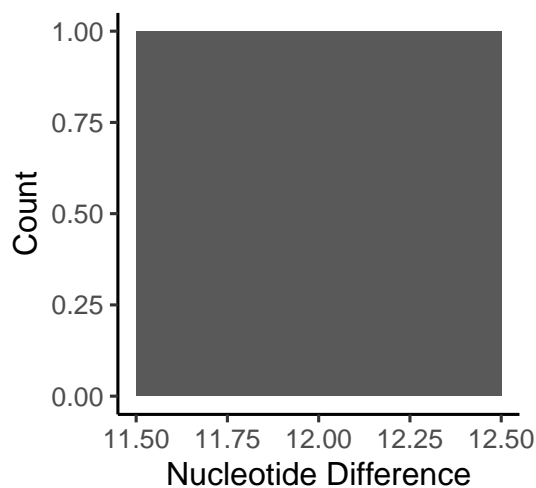
IGHV1-18*01

47 sequences assigned
23 (48.9%) exact matches, in which:
23 unique CDR3
5 unique J



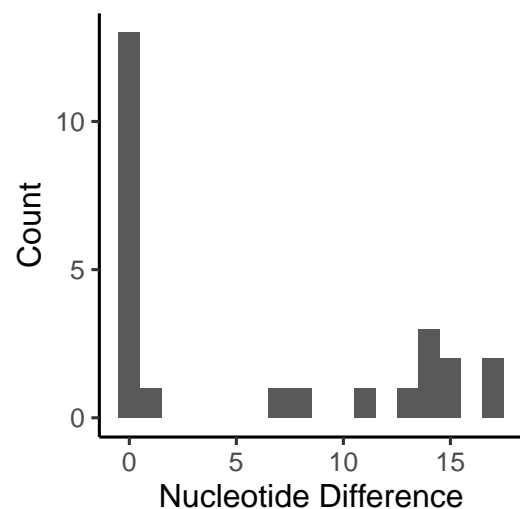
IGHV1-58*01

2 sequences assigned
No exact matches.



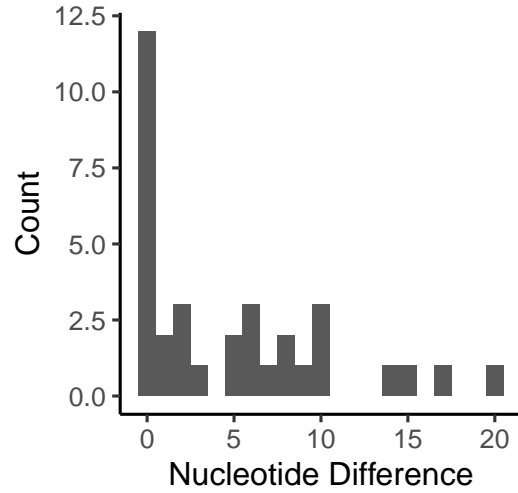
IGHV1-69*06

30 sequences assigned
13 (43.3%) exact matches, in which:
13 unique CDR3
4 unique J



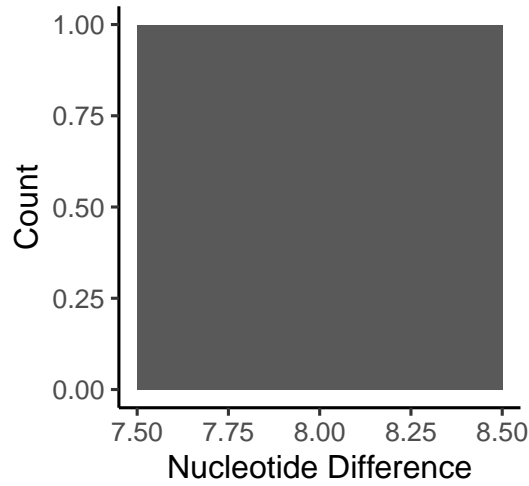
IGHV2-5*01

38 sequences assigned
12 (31.6%) exact matches, in which:
12 unique CDR3
5 unique J



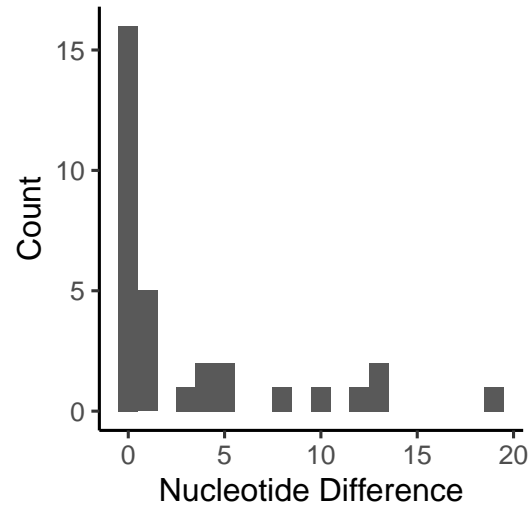
IGHV2-70*20

1 sequences assigned
No exact matches.



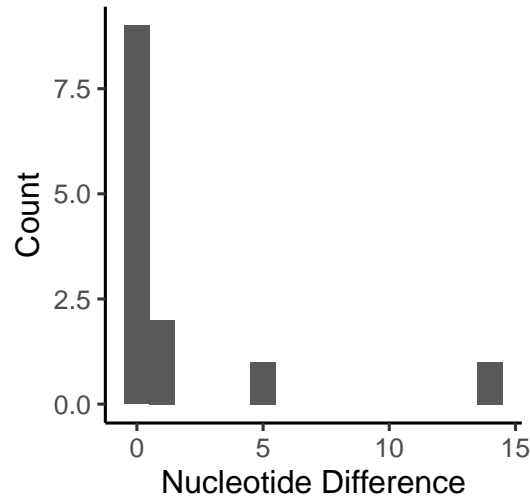
IGHV3-11*01

37 sequences assigned
16 (43.2%) exact matches, in which:
16 unique CDR3
5 unique J



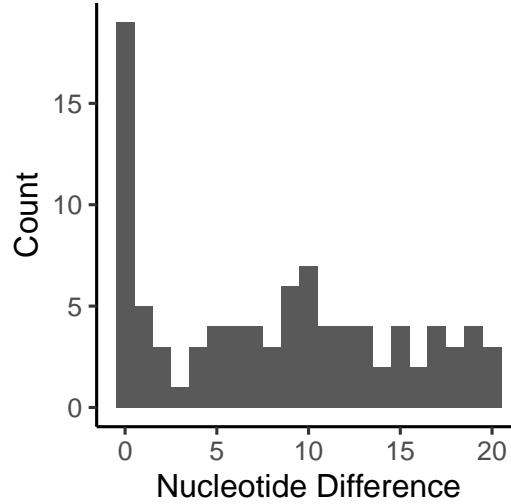
IGHV2-26*01

13 sequences assigned
9 (69.2%) exact matches, in which:
9 unique CDR3
3 unique J



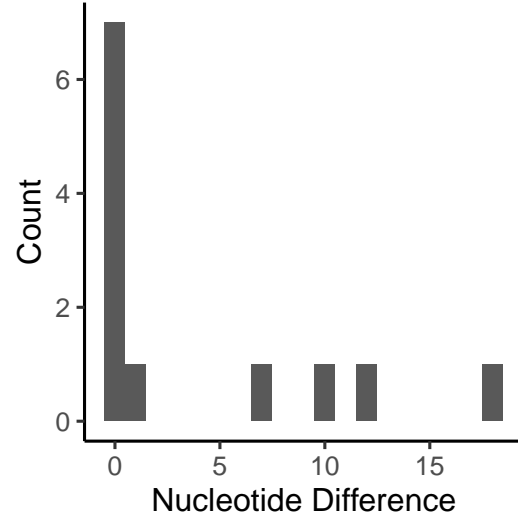
IGHV3-7*01

106 sequences assigned
19 (17.9%) exact matches, in which:
19 unique CDR3
4 unique J



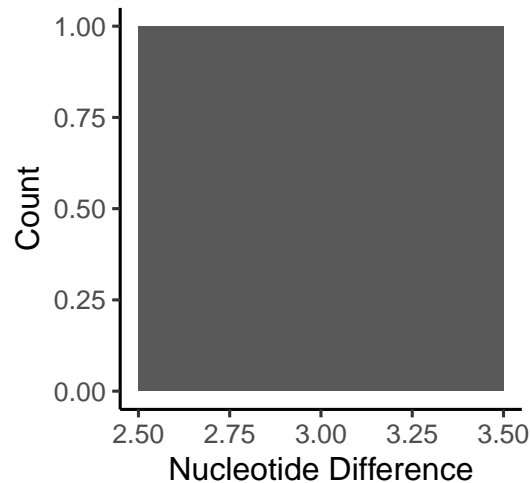
IGHV3-13*01

12 sequences assigned
7 (58.3%) exact matches, in which:
7 unique CDR3
3 unique J



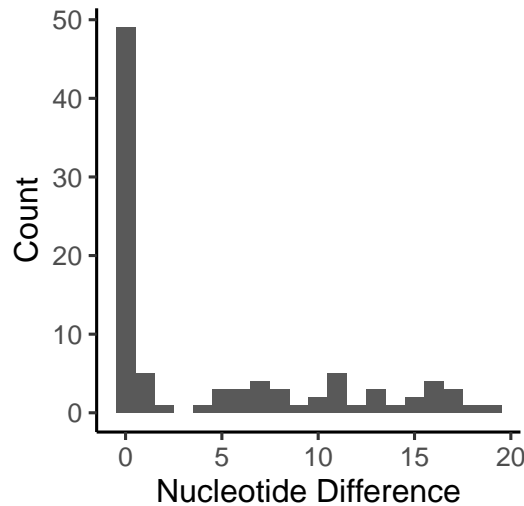
IGHV2-70*01

1 sequences assigned
No exact matches.



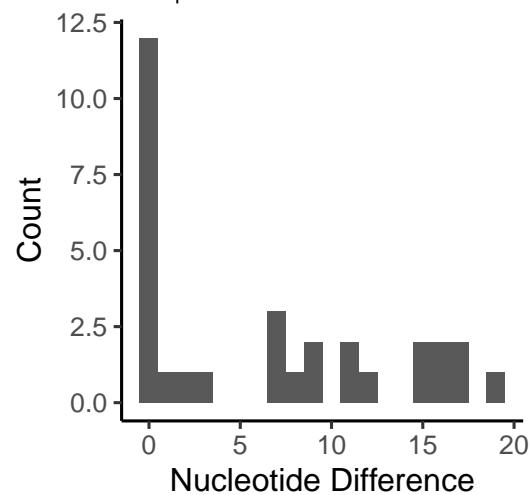
IGHV3-9*01

99 sequences assigned
49 (49.5%) exact matches, in which:
49 unique CDR3
5 unique J



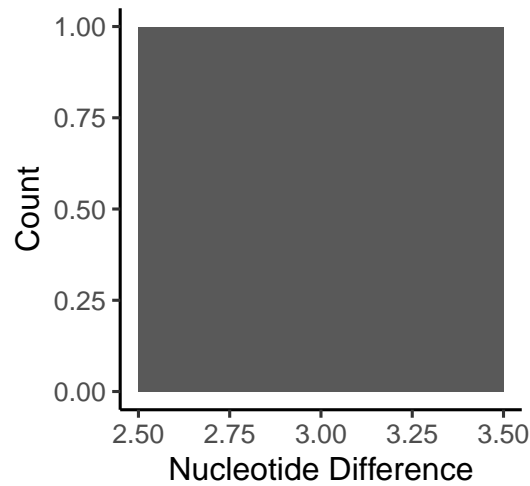
IGHV3-15*01

33 sequences assigned
12 (36.4%) exact matches, in which:
12 unique CDR3
2 unique J



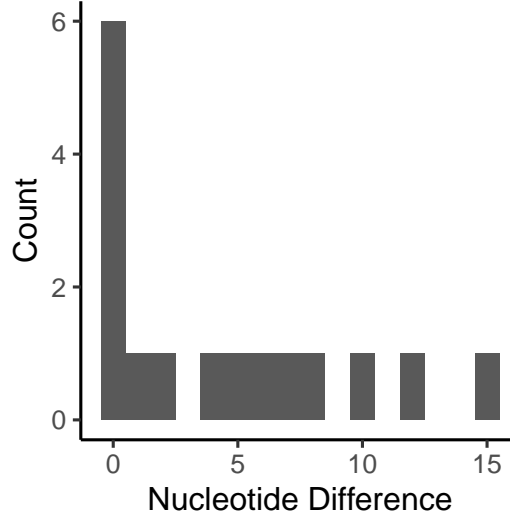
IGHV3-20*01

1 sequences assigned
No exact matches.



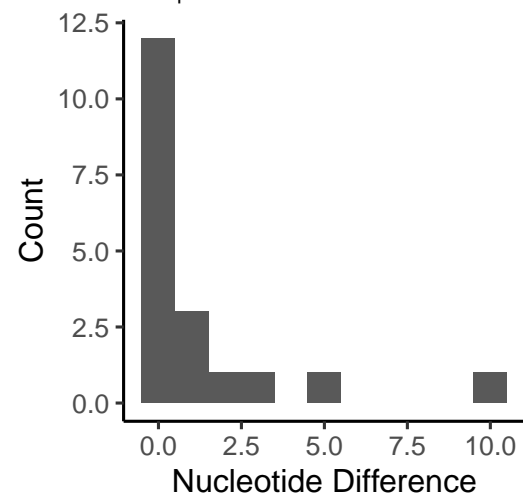
IGHV3-30*01

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



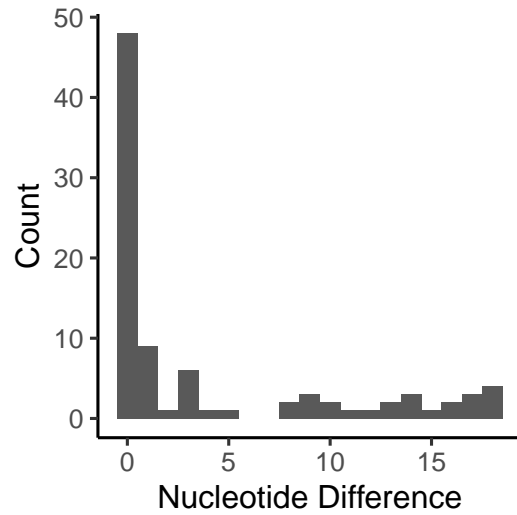
IGHV3-48*01

20 sequences assigned
12 (60%) exact matches, in which:
12 unique CDR3
3 unique J



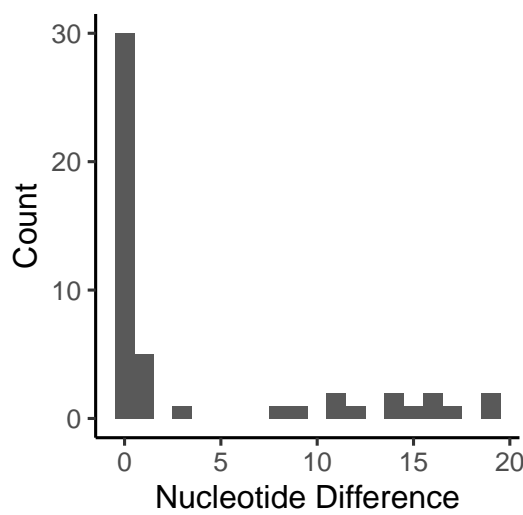
IGHV3-21*01

91 sequences assigned
48 (52.7%) exact matches, in which:
48 unique CDR3
6 unique J



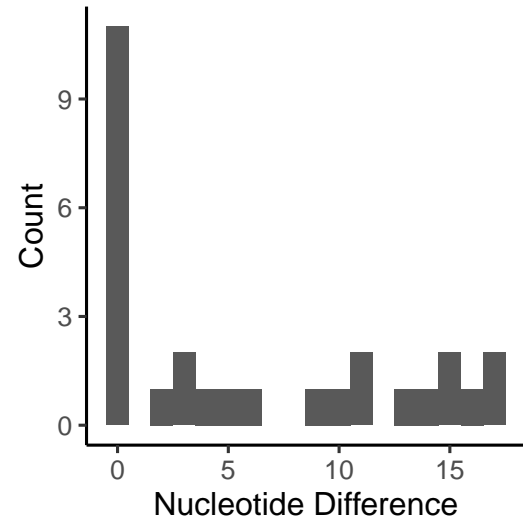
IGHV3-33*01

53 sequences assigned
30 (56.6%) exact matches, in which:
30 unique CDR3
3 unique J



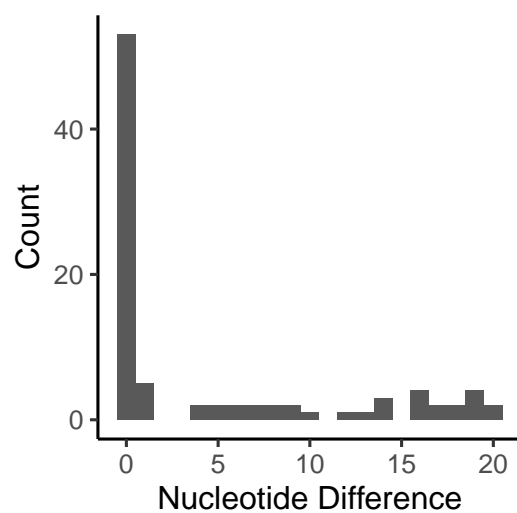
IGHV3-48*02

28 sequences assigned
11 (39.3%) exact matches, in which:
11 unique CDR3
3 unique J



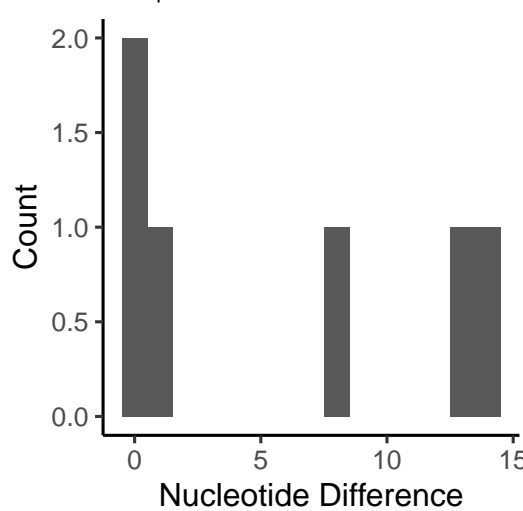
IGHV3-30-3*01

101 sequences assigned
53 (52.5%) exact matches, in which:
52 unique CDR3
5 unique J



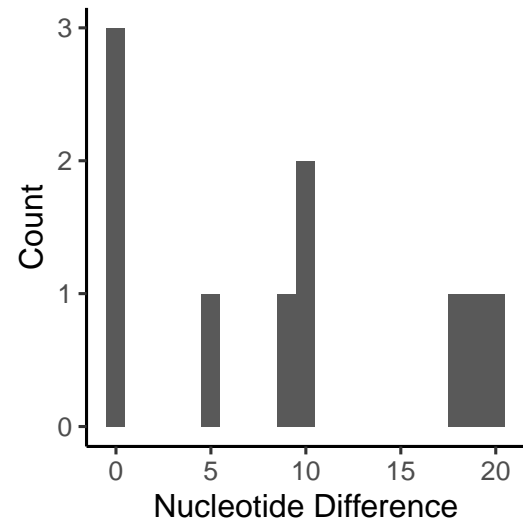
IGHV3-43*01

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



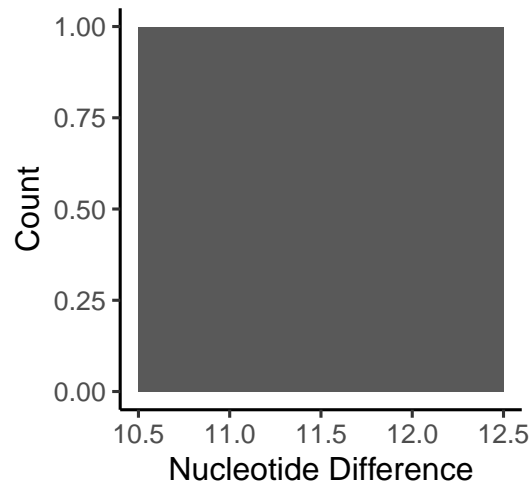
IGHV3-49*03

13 sequences assigned
3 (23.1%) exact matches, in which:
3 unique CDR3
2 unique J



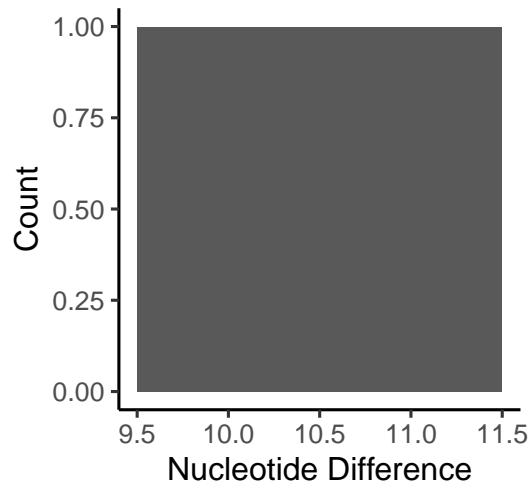
IGHV3-49*05

3 sequences assigned
No exact matches.



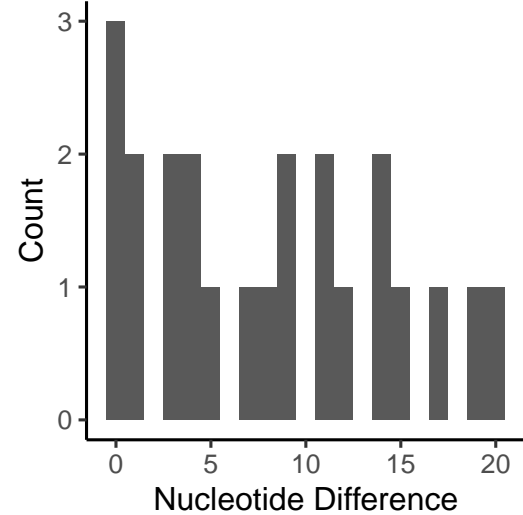
IGHV3-64*07

2 sequences assigned
No exact matches.



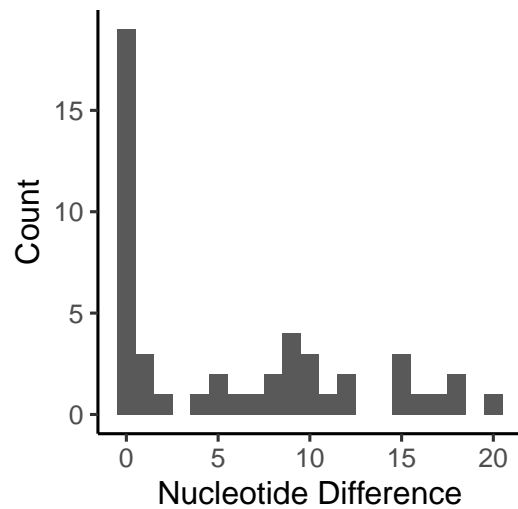
IGHV3-74*01

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



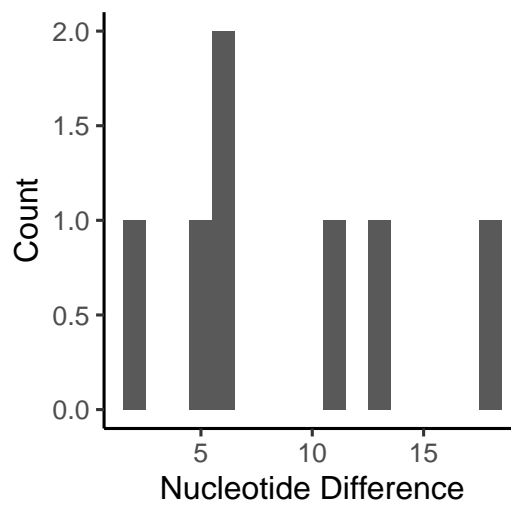
IGHV3-53*01

53 sequences assigned
19 (35.8%) exact matches, in which:
19 unique CDR3
6 unique J



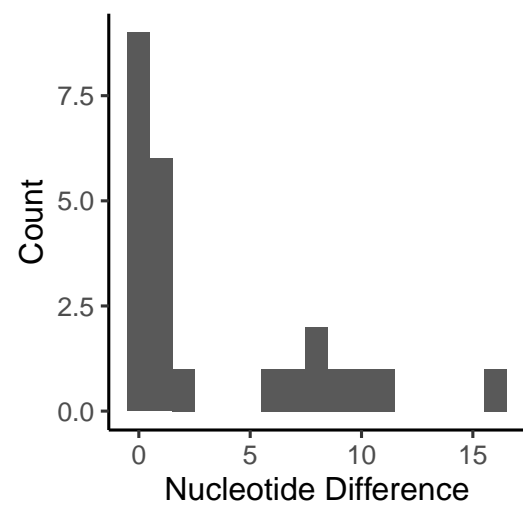
IGHV3-72*01

9 sequences assigned
No exact matches.



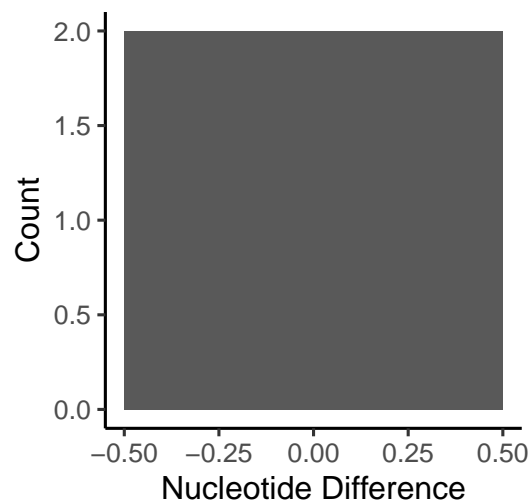
IGHV4-4*07

25 sequences assigned
9 (36%) exact matches, in which:
9 unique CDR3
4 unique J



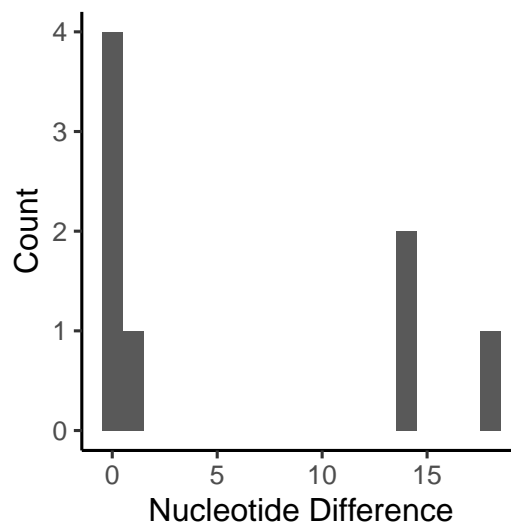
IGHV3-64*01

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



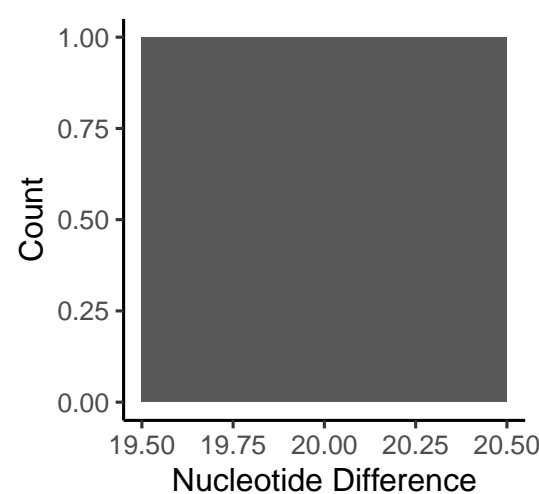
IGHV3-73*02

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



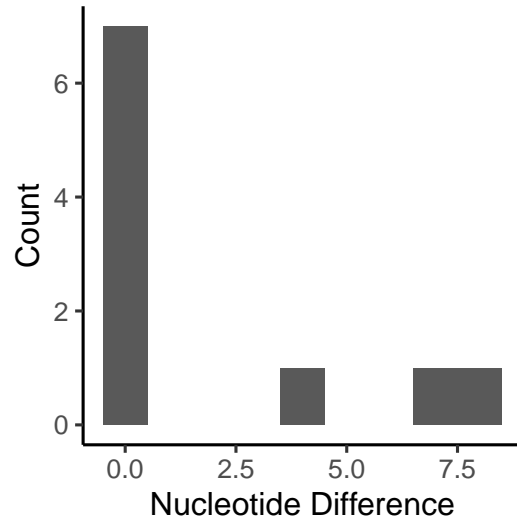
IGHV4-28*03

1 sequences assigned
No exact matches.



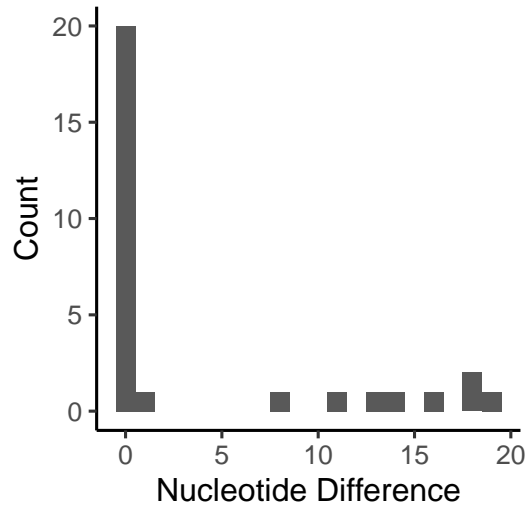
IGHV4-30-4*01

11 sequences assigned
7 (63.6%) exact matches, in which:
7 unique CDR3
4 unique J



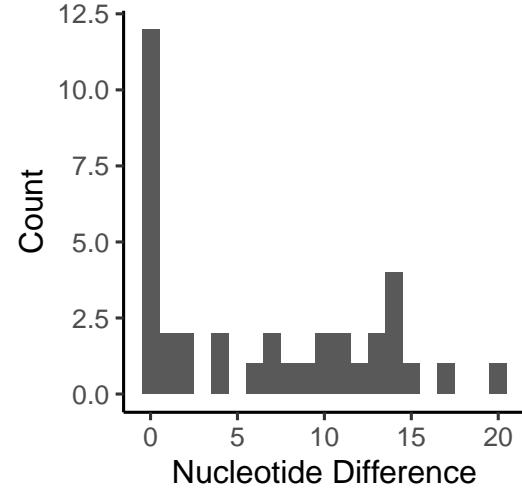
IGHV4-31*03

31 sequences assigned
20 (64.5%) exact matches, in which:
20 unique CDR3
5 unique J



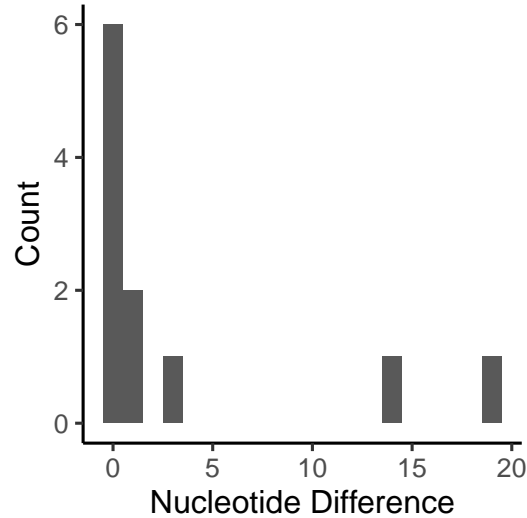
IGHV4-59*01

43 sequences assigned
12 (27.9%) exact matches, in which:
12 unique CDR3
3 unique J



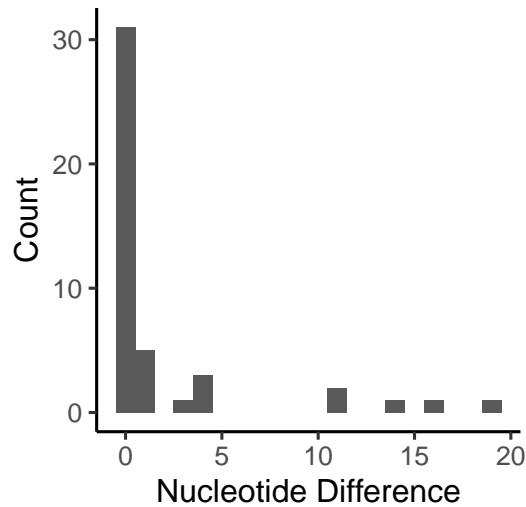
IGHV4-30-2*01

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



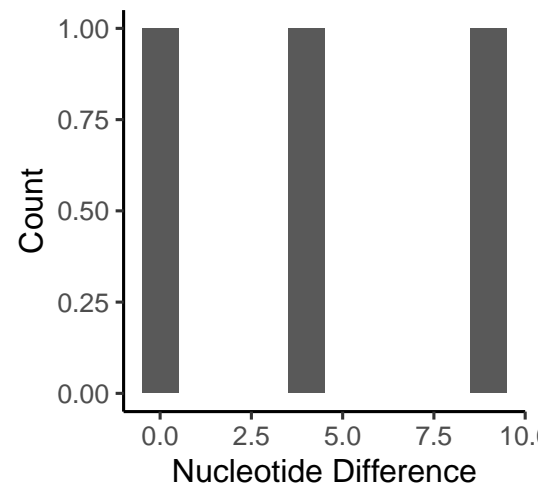
IGHV4-34*01

46 sequences assigned
31 (67.4%) exact matches, in which:
31 unique CDR3
5 unique J



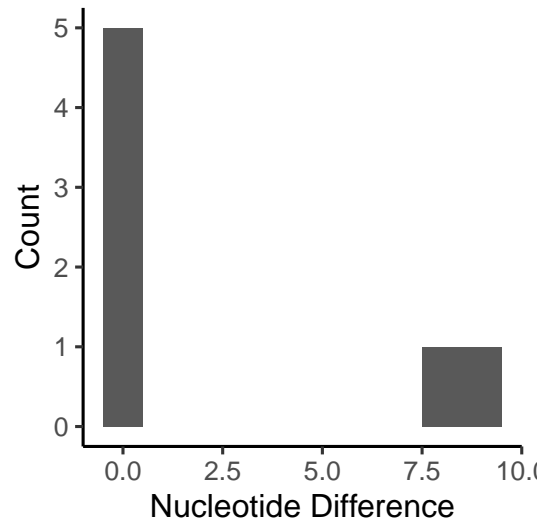
IGHV4-61*01

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



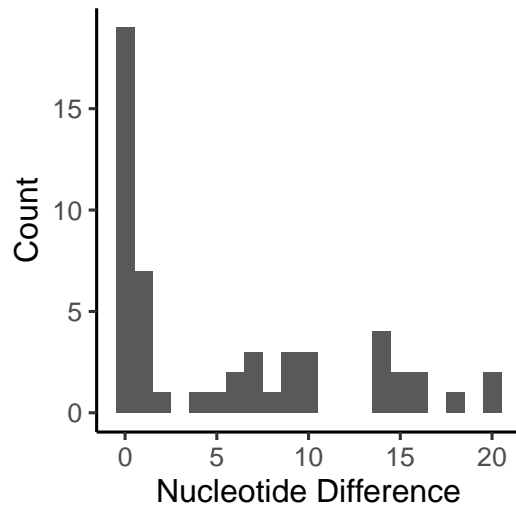
IGHV4-31*01

7 sequences assigned
5 (71.4%) exact matches, in which:
5 unique CDR3
4 unique J



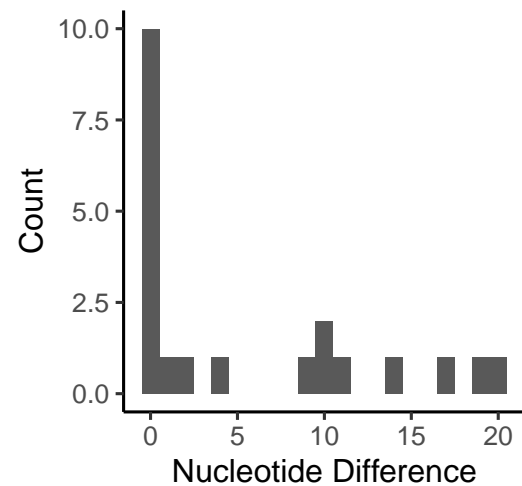
IGHV4-39*01

63 sequences assigned
19 (30.2%) exact matches, in which:
19 unique CDR3
5 unique J



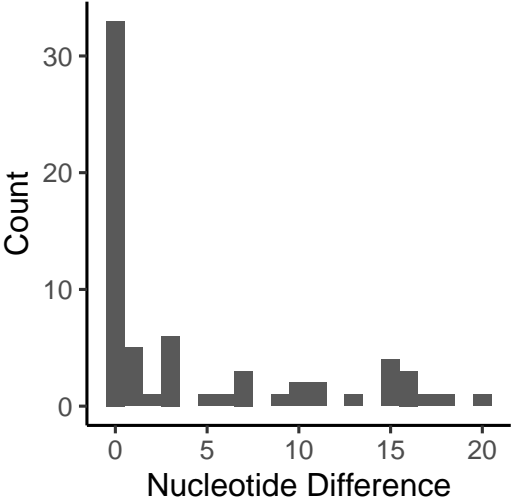
IGHV4-61*02

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



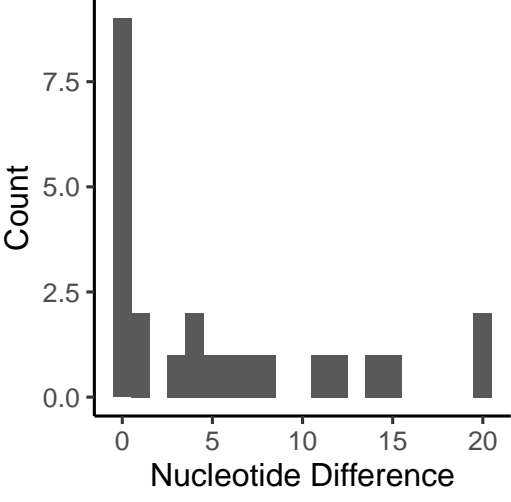
IGHV5-51*01

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



IGHV6-1*01

25 sequences assigned
9 (36%) exact matches, in which:
9 unique CDR3
3 unique J





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