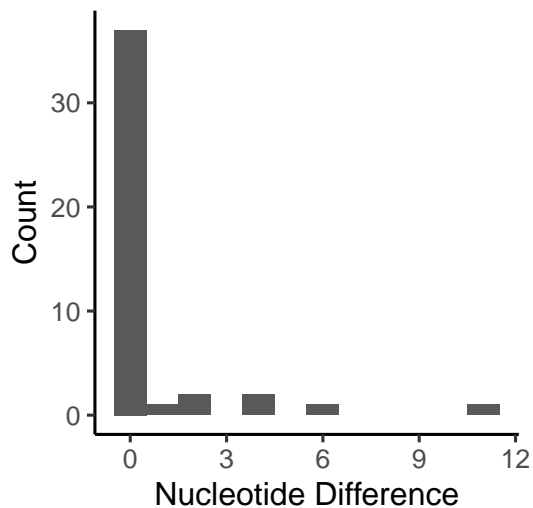


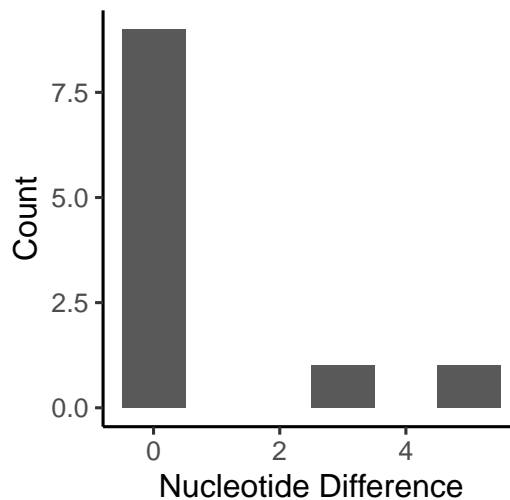
IGHV1-2*02

44 sequences assigned
37 (84.1%) exact matches, in which:
37 unique CDR3
5 unique J



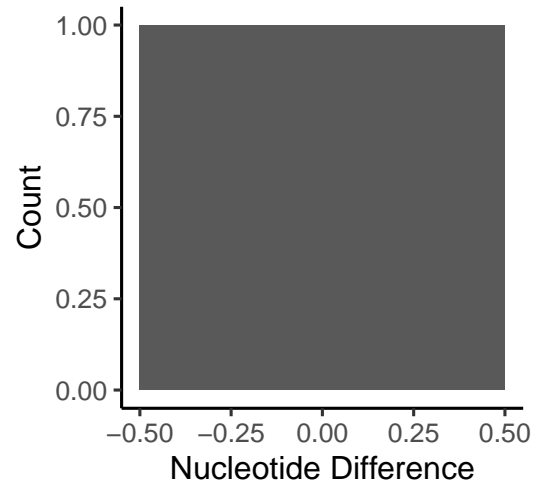
IGHV1-24*01

11 sequences assigned
9 (81.8%) exact matches, in which:
9 unique CDR3
4 unique J



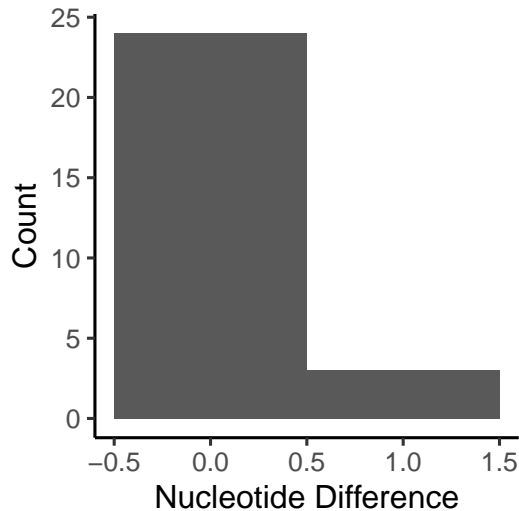
IGHV1-58*02

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



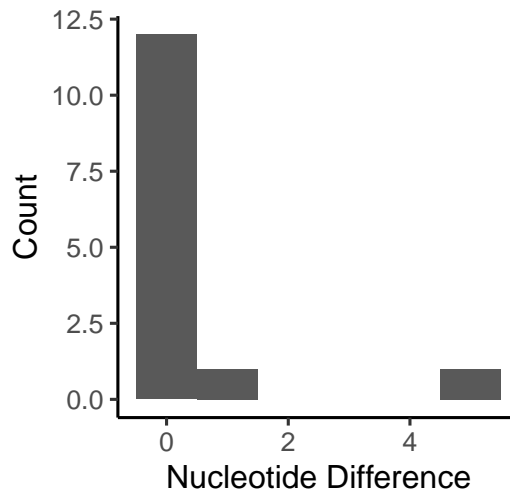
IGHV1-8*01

27 sequences assigned
24 (88.9%) exact matches, in which:
24 unique CDR3
5 unique J



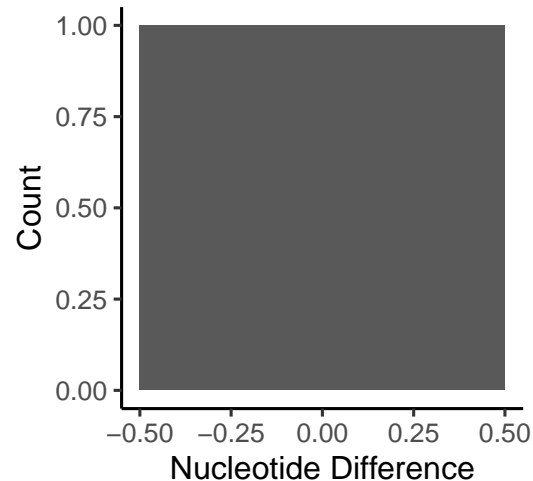
IGHV1-46*01

14 sequences assigned
12 (85.7%) exact matches, in which:
12 unique CDR3
4 unique J



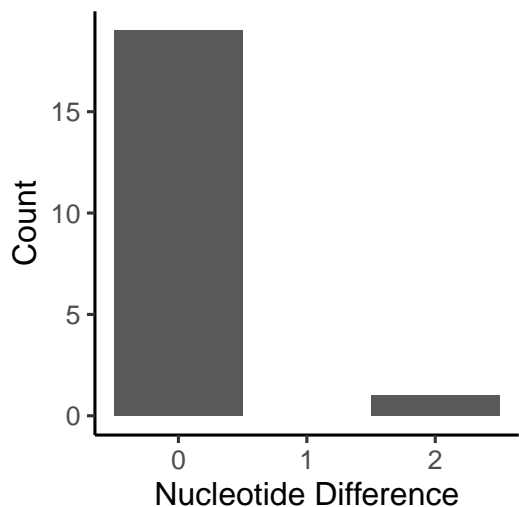
IGHV1-69-2*01

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



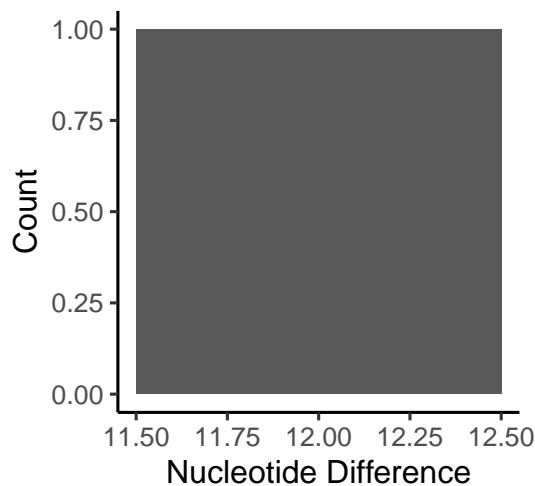
IGHV1-18*01

20 sequences assigned
19 (95%) exact matches, in which:
19 unique CDR3
5 unique J



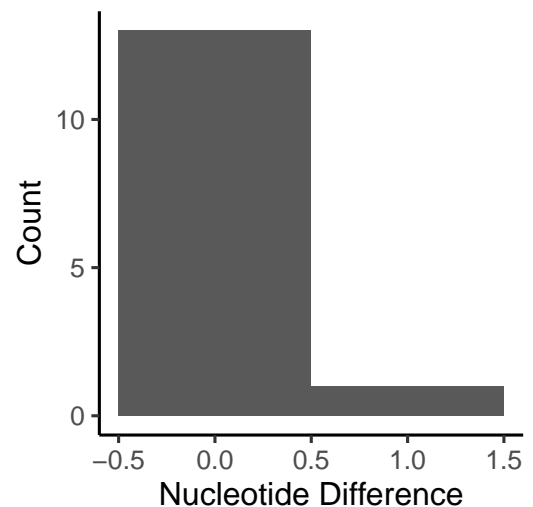
IGHV1-58*01

1 sequences assigned
No exact matches.



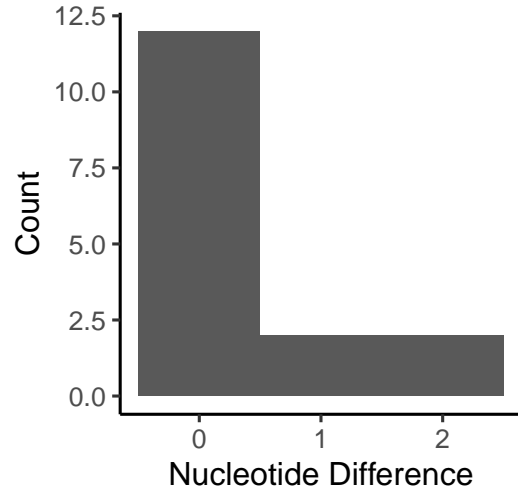
IGHV1-69*06

14 sequences assigned
13 (92.9%) exact matches, in which:
13 unique CDR3
4 unique J



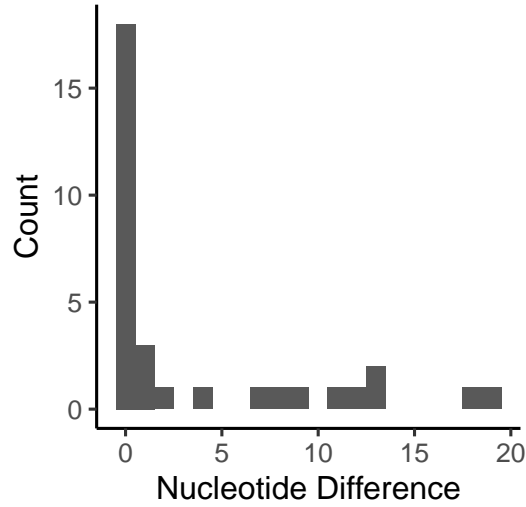
IGHV2-5*01

16 sequences assigned
12 (75%) exact matches, in which:
12 unique CDR3
5 unique J



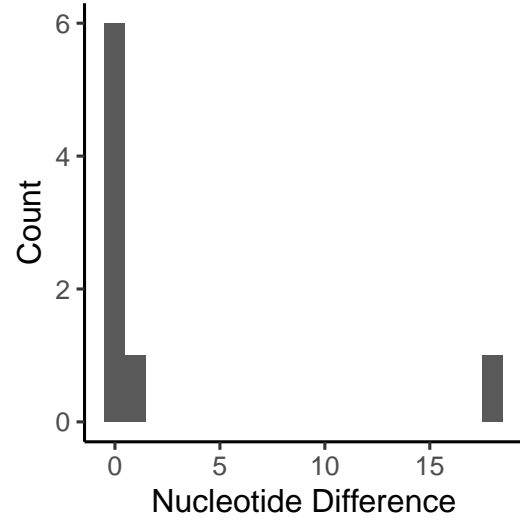
IGHV3-7*01

34 sequences assigned
18 (52.9%) exact matches, in which:
18 unique CDR3
4 unique J



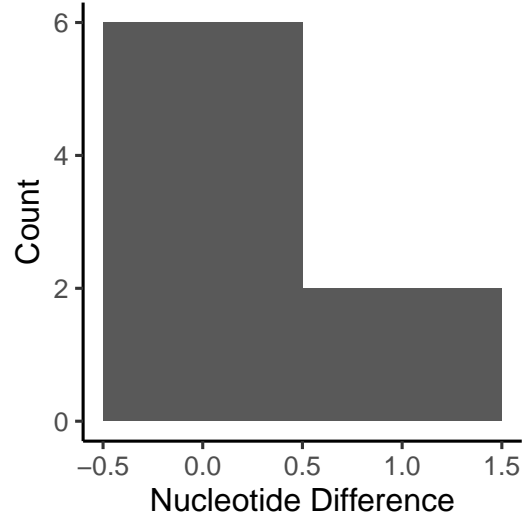
IGHV3-13*01

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



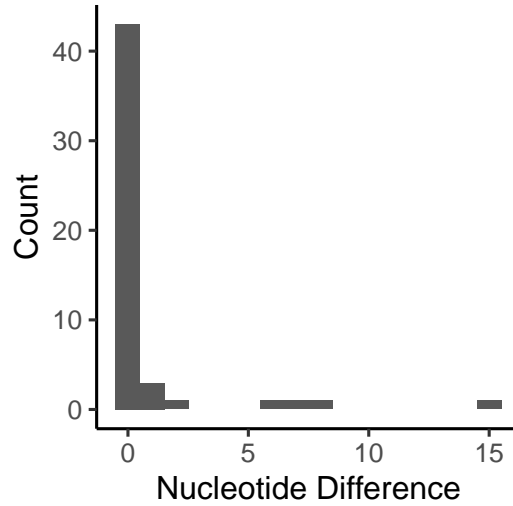
IGHV2-26*01

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



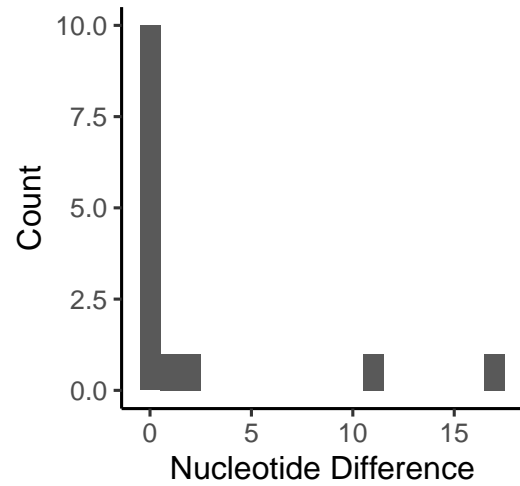
IGHV3-9*01

51 sequences assigned
43 (84.3%) exact matches, in which:
43 unique CDR3
5 unique J



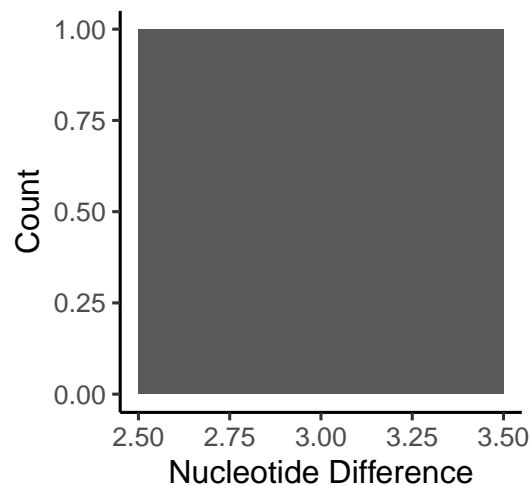
IGHV3-15*01

14 sequences assigned
10 (71.4%) exact matches, in which:
10 unique CDR3
2 unique J



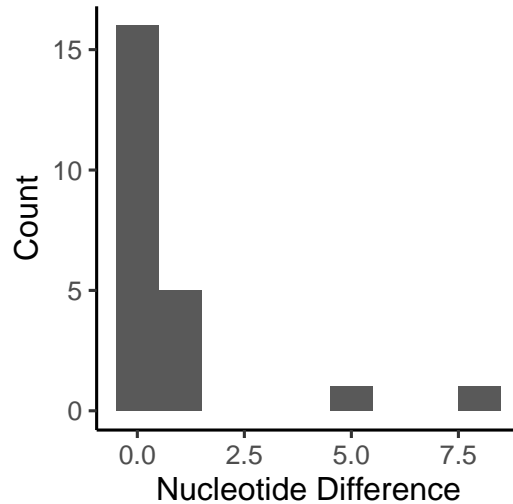
IGHV2-70*01

1 sequences assigned
No exact matches.



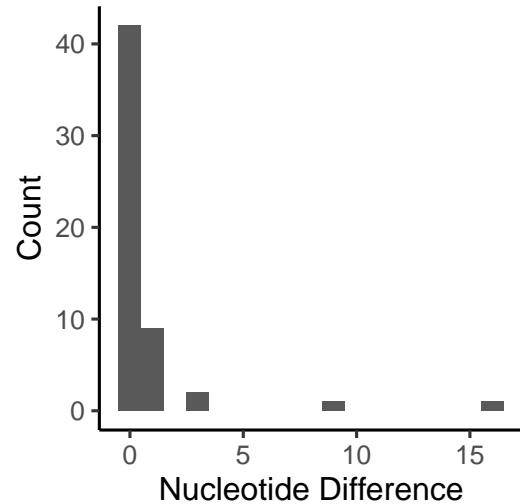
IGHV3-11*01

23 sequences assigned
16 (69.6%) exact matches, in which:
16 unique CDR3
5 unique J



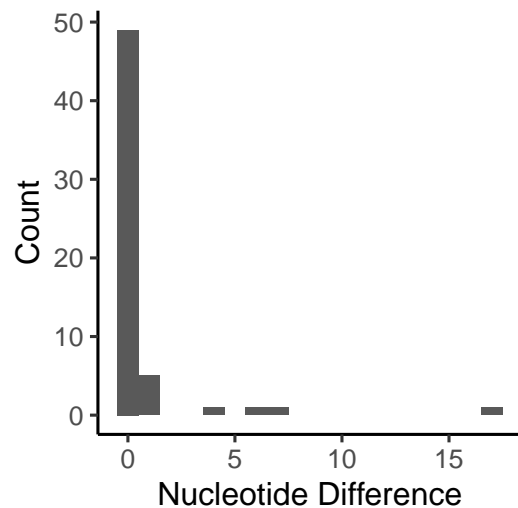
IGHV3-21*01

55 sequences assigned
42 (76.4%) exact matches, in which:
42 unique CDR3
6 unique J



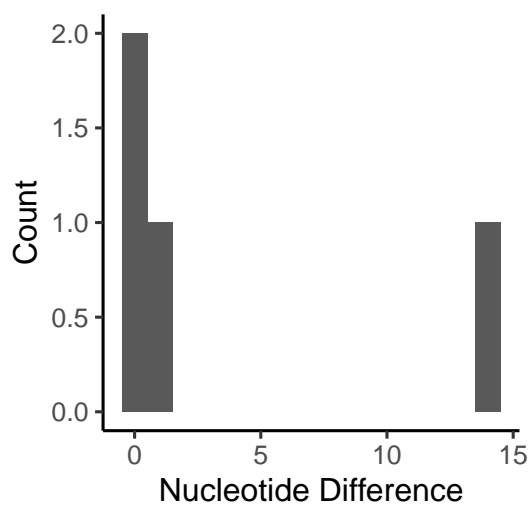
IGHV3-30-3*01

59 sequences assigned
49 (83.1%) exact matches, in which:
48 unique CDR3
5 unique J



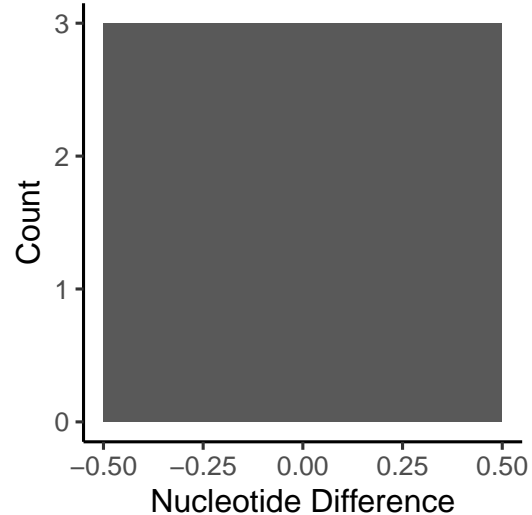
IGHV3-43*01

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



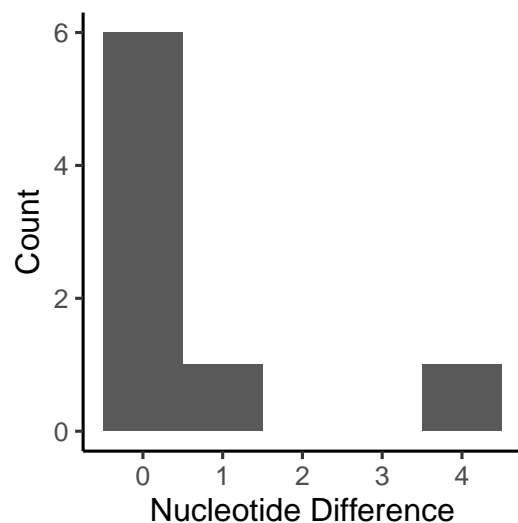
IGHV3-49*03

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



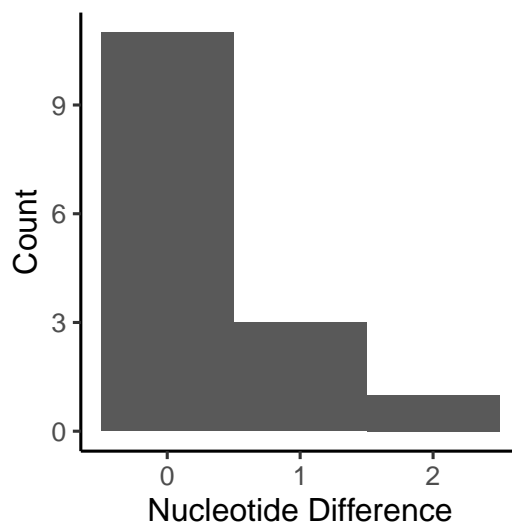
IGHV3-30*01

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



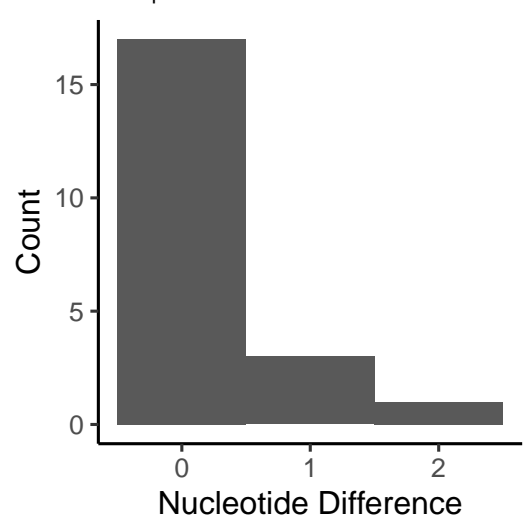
IGHV3-48*01

15 sequences assigned
11 (73.3%) exact matches, in which:
11 unique CDR3
3 unique J



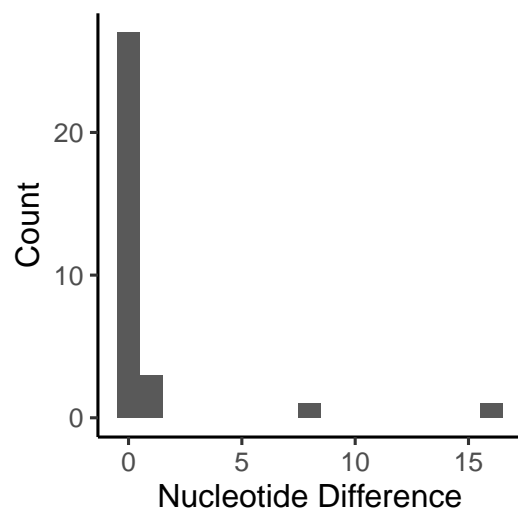
IGHV3-53*01

21 sequences assigned
17 (81%) exact matches, in which:
17 unique CDR3
6 unique J



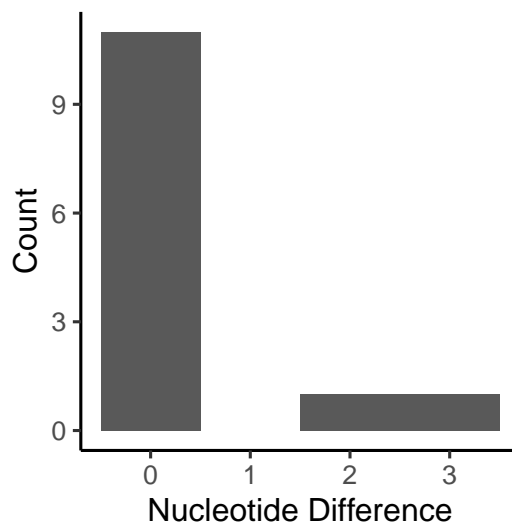
IGHV3-33*01

32 sequences assigned
27 (84.4%) exact matches, in which:
27 unique CDR3
3 unique J



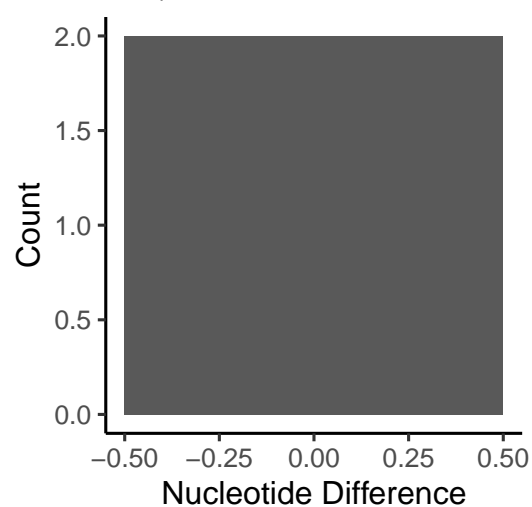
IGHV3-48*02

13 sequences assigned
11 (84.6%) exact matches, in which:
11 unique CDR3
3 unique J



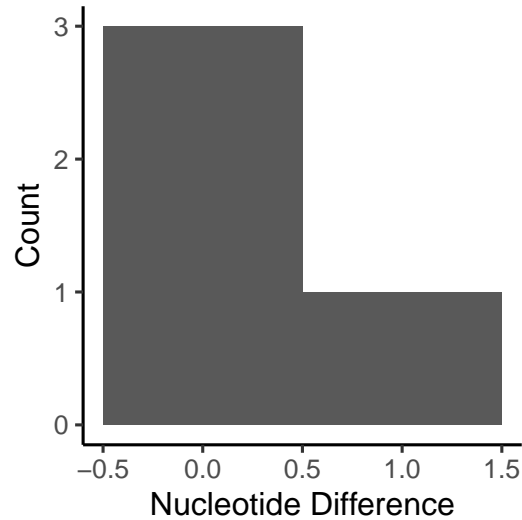
IGHV3-64*01

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



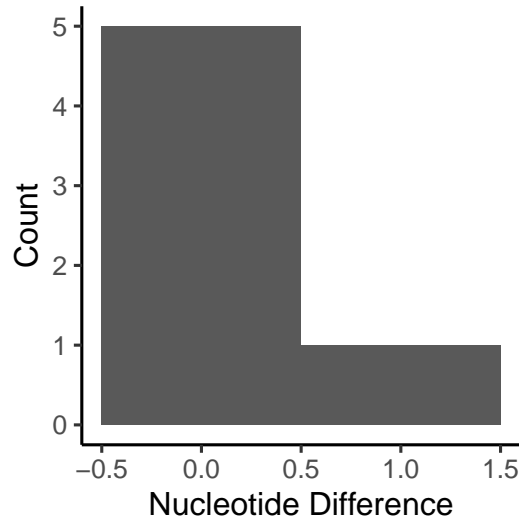
IGHV3-73*02

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
3 unique J



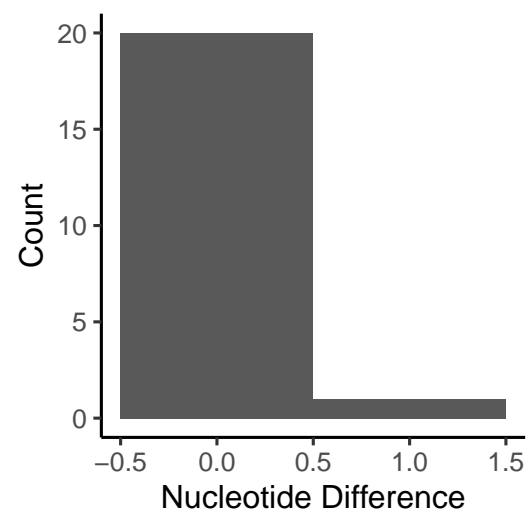
IGHV4-30-2*01

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



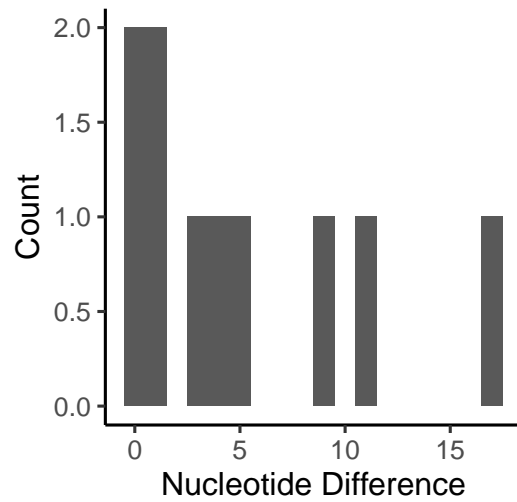
IGHV4-31*03

21 sequences assigned
20 (95.2%) exact matches, in which:
20 unique CDR3
5 unique J



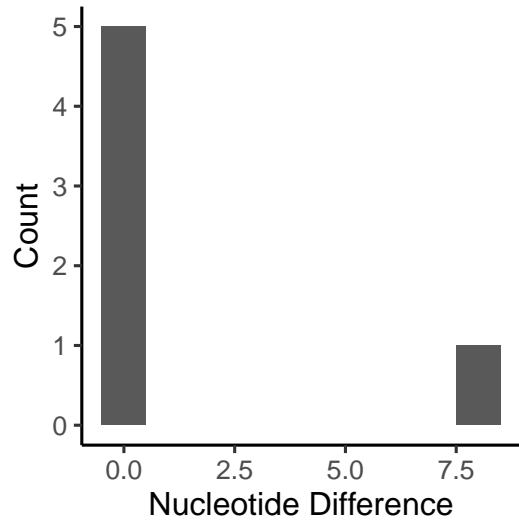
IGHV3-74*01

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
2 unique J



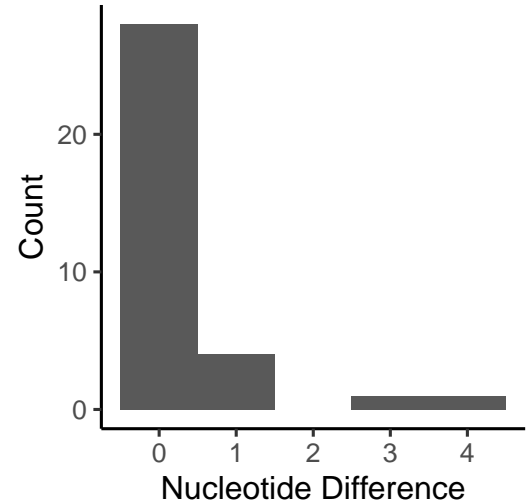
IGHV4-30-4*01

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



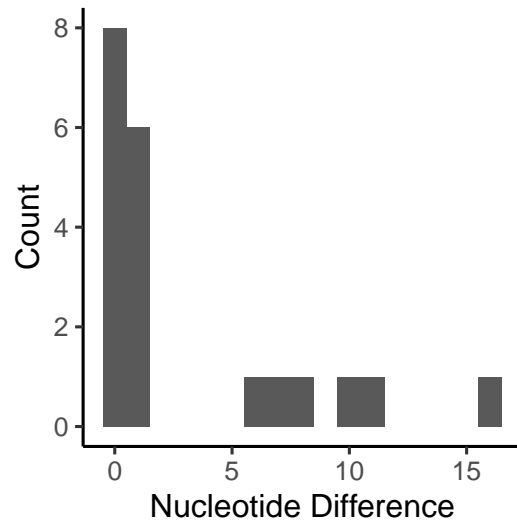
IGHV4-34*01

34 sequences assigned
28 (82.4%) exact matches, in which:
28 unique CDR3
4 unique J



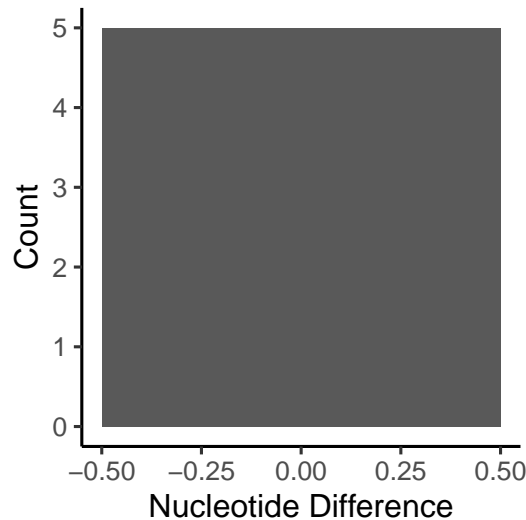
IGHV4-4*07

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



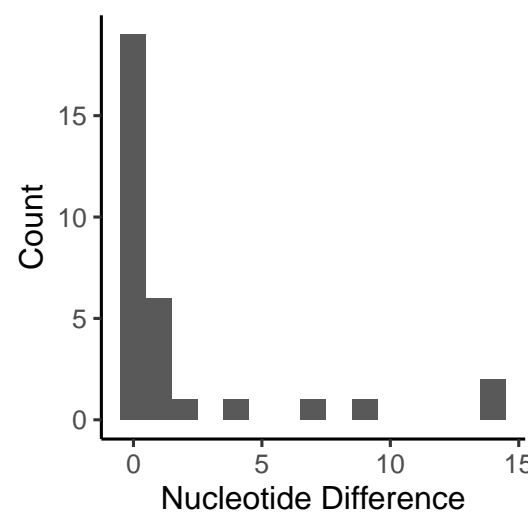
IGHV4-31*01

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



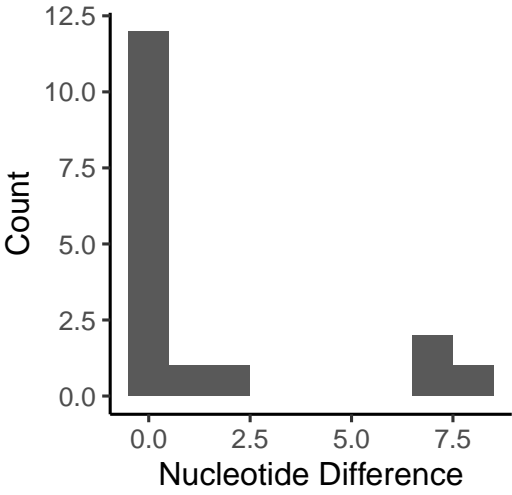
IGHV4-39*01

31 sequences assigned
19 (61.3%) exact matches, in which:
19 unique CDR3
5 unique J



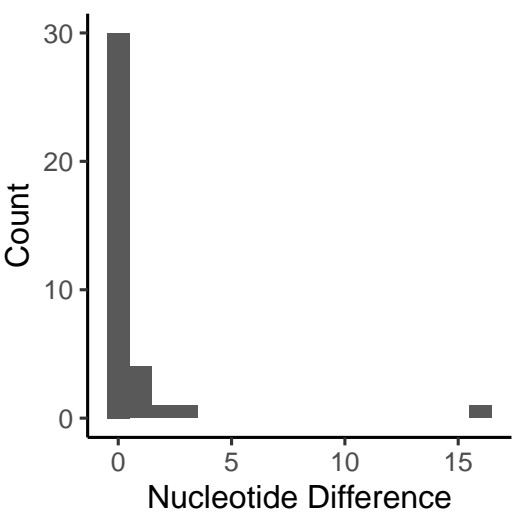
IGHV4-59*01

17 sequences assigned
12 (70.6%) exact matches, in which:
12 unique CDR3
3 unique J



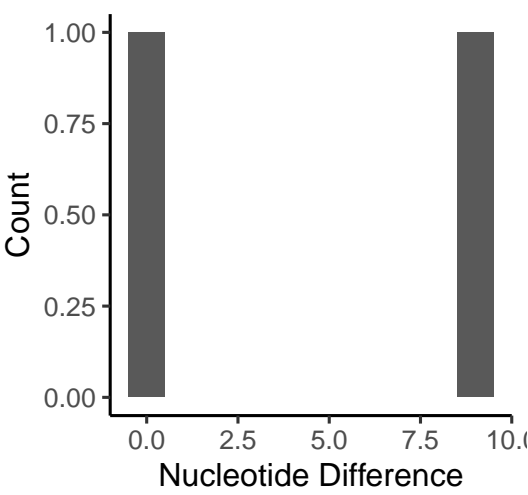
IGHV5-51*01

37 sequences assigned
30 (81.1%) exact matches, in which:
30 unique CDR3
5 unique J



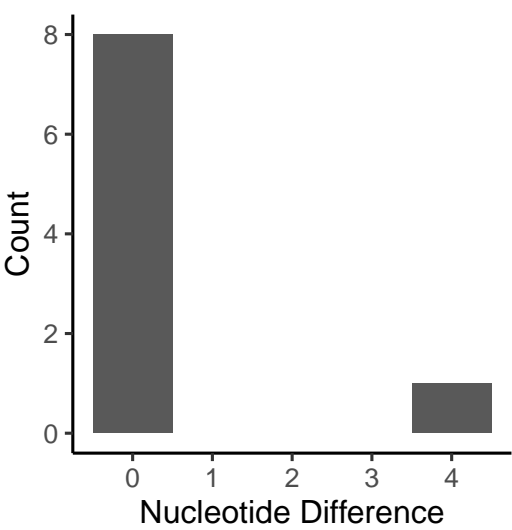
IGHV4-61*01

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



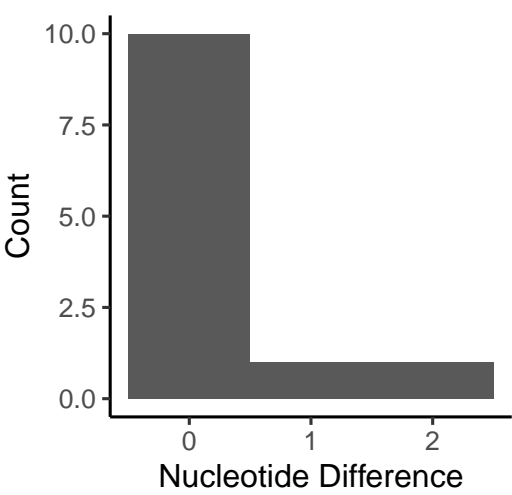
IGHV6-1*01

9 sequences assigned
8 (88.9%) exact matches, in which:
8 unique CDR3
3 unique J



IGHV4-61*02

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
5 unique J





[illegible]