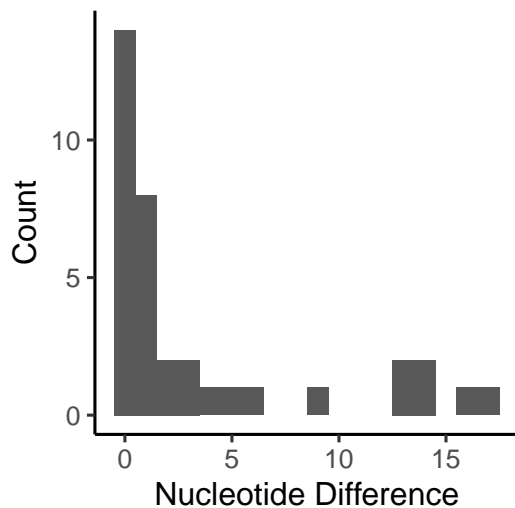


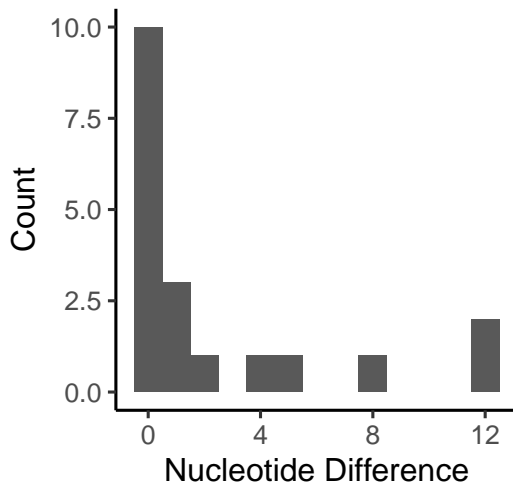
IGHV1-2*02

37 sequences assigned
14 (37.8%) exact matches, in which:
14 unique CDR3
3 unique J



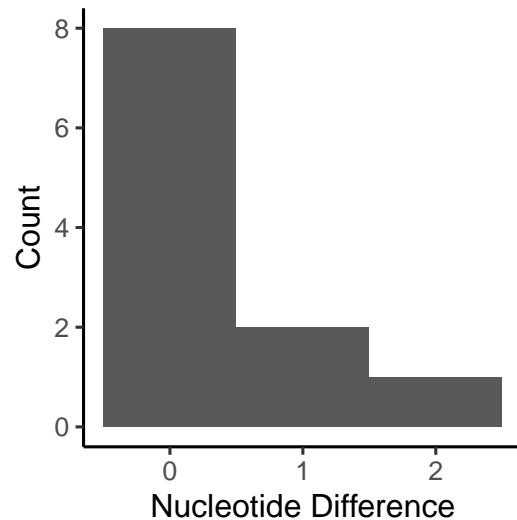
IGHV1-8*01

19 sequences assigned
10 (52.6%) exact matches, in which:
10 unique CDR3
5 unique J



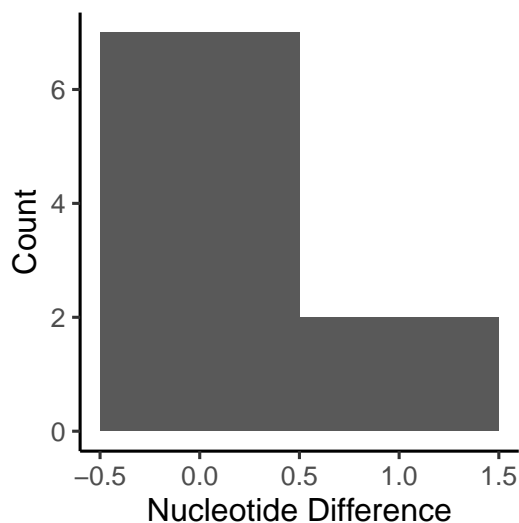
IGHV1-24*01

11 sequences assigned
8 (72.7%) exact matches, in which:
8 unique CDR3
2 unique J



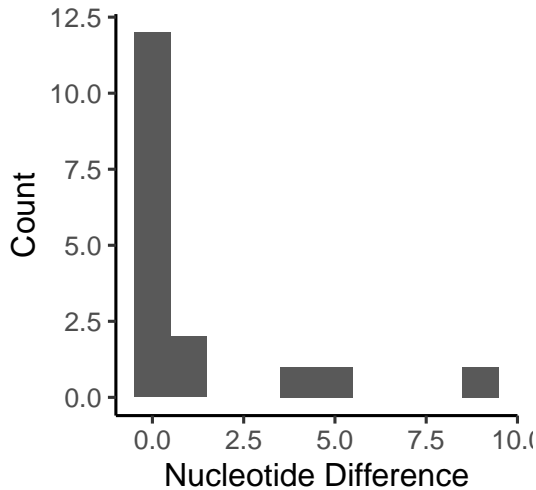
IGHV1-2*04

9 sequences assigned
7 (77.8%) exact matches, in which:
6 unique CDR3
4 unique J



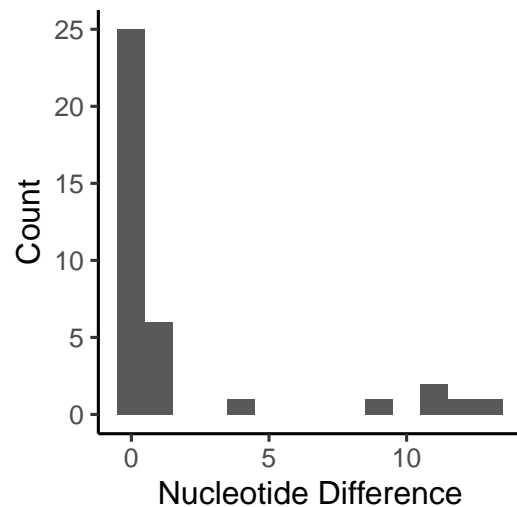
IGHV1-18*01

19 sequences assigned
12 (63.2%) exact matches, in which:
12 unique CDR3
3 unique J



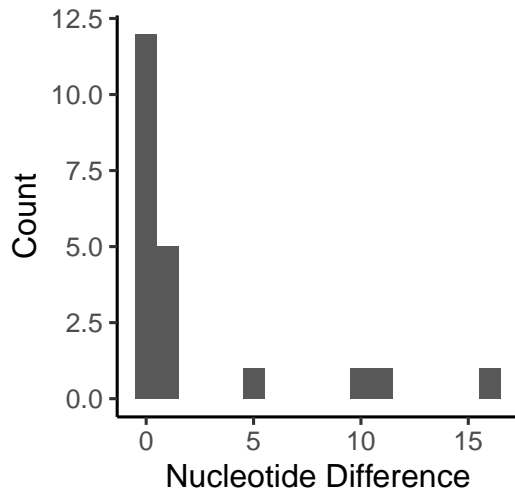
IGHV1-46*01

37 sequences assigned
25 (67.6%) exact matches, in which:
25 unique CDR3
5 unique J



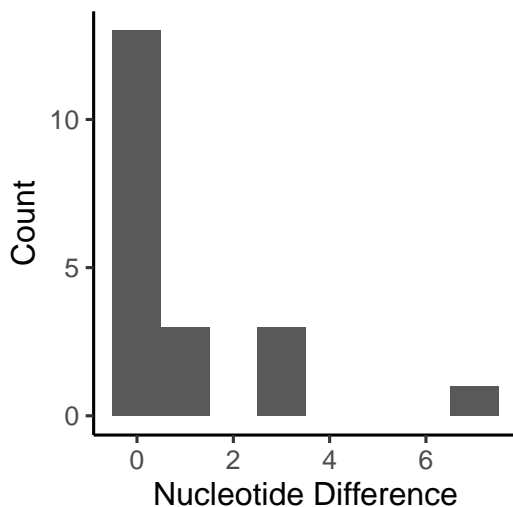
IGHV1-3*01

21 sequences assigned
12 (57.1%) exact matches, in which:
12 unique CDR3
4 unique J



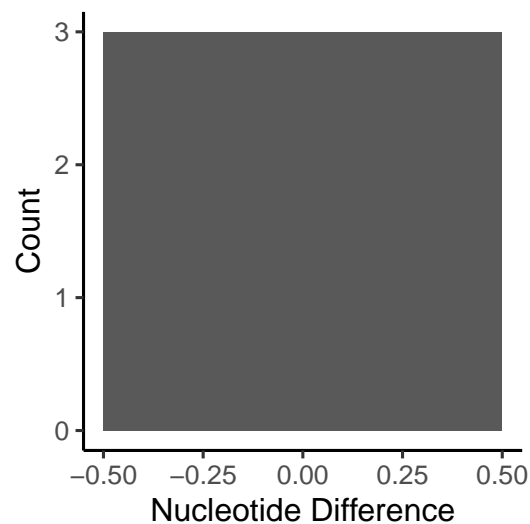
IGHV1-18*04

20 sequences assigned
13 (65%) exact matches, in which:
13 unique CDR3
4 unique J



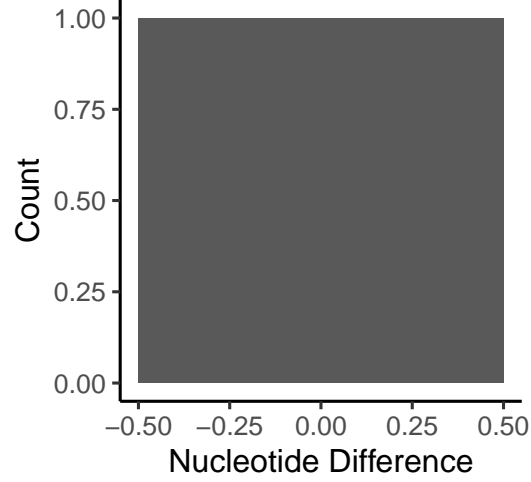
IGHV1-58*01

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



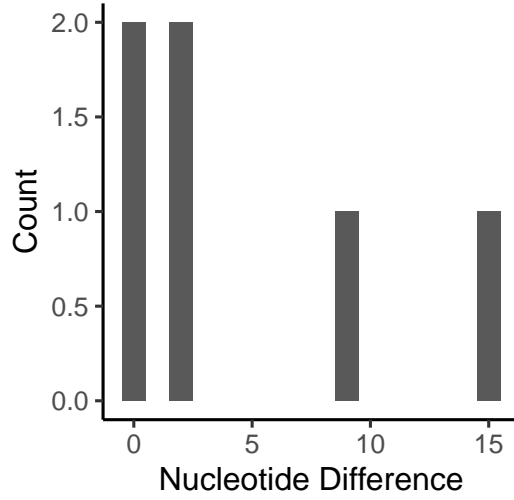
IGHV1-69-2*01

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



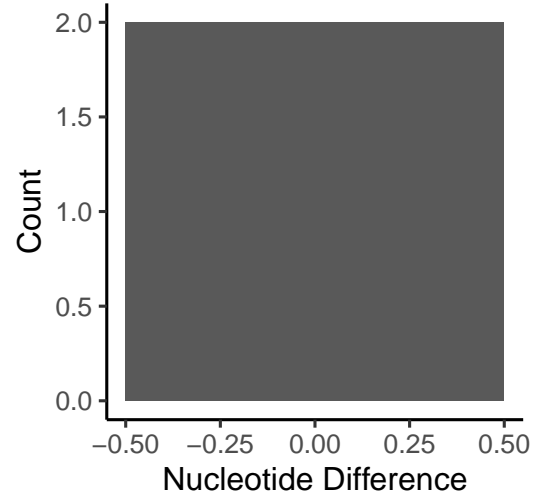
IGHV2-5*02

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



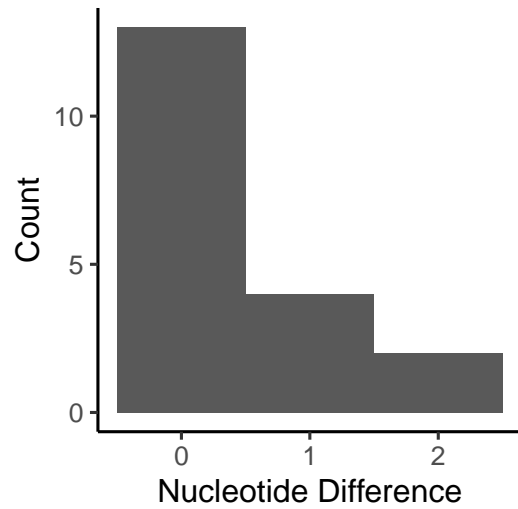
IGHV2-70*15

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



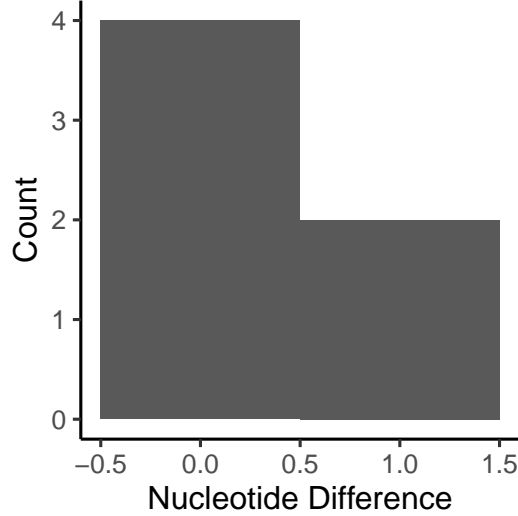
IGHV1-69*06

19 sequences assigned
13 (68.4%) exact matches, in which:
13 unique CDR3
4 unique J



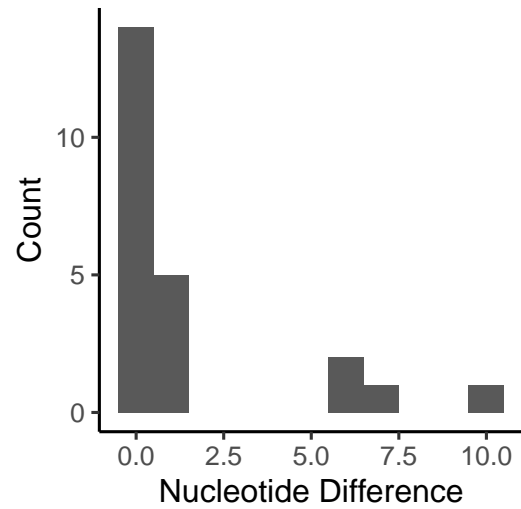
IGHV2-26*01

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
4 unique J



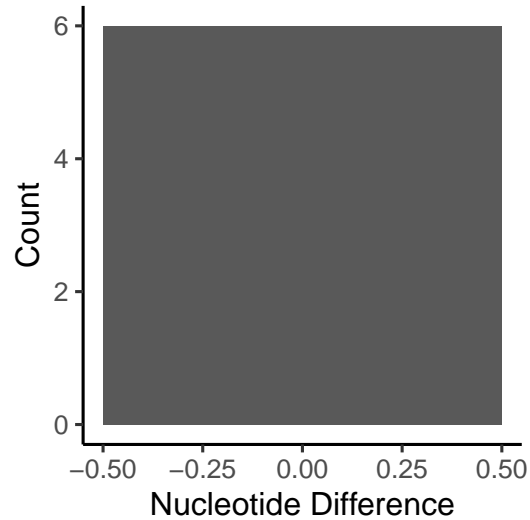
IGHV3-7*01

23 sequences assigned
14 (60.9%) exact matches, in which:
14 unique CDR3
4 unique J



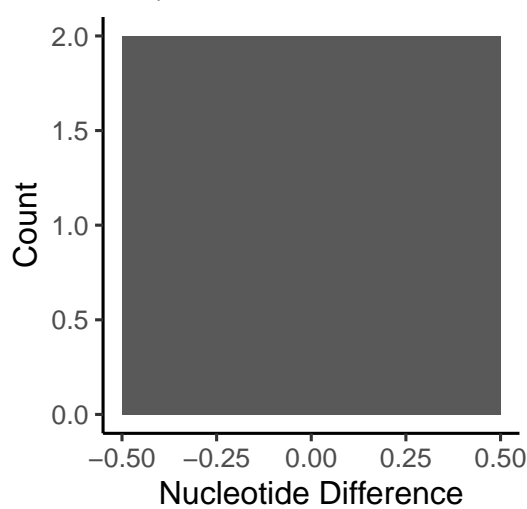
IGHV2-5*01

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



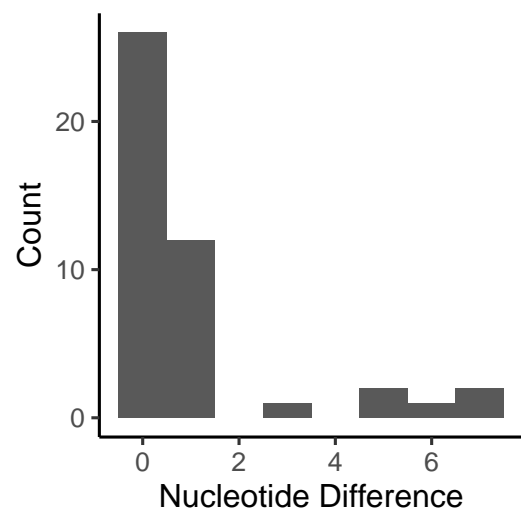
IGHV2-70*01

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



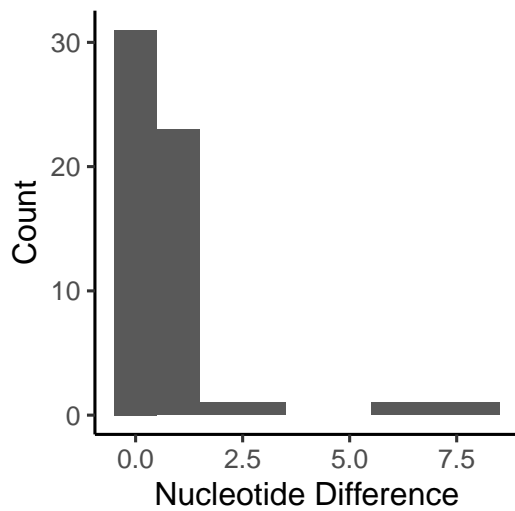
IGHV3-7*03

44 sequences assigned
26 (59.1%) exact matches, in which:
26 unique CDR3
5 unique J



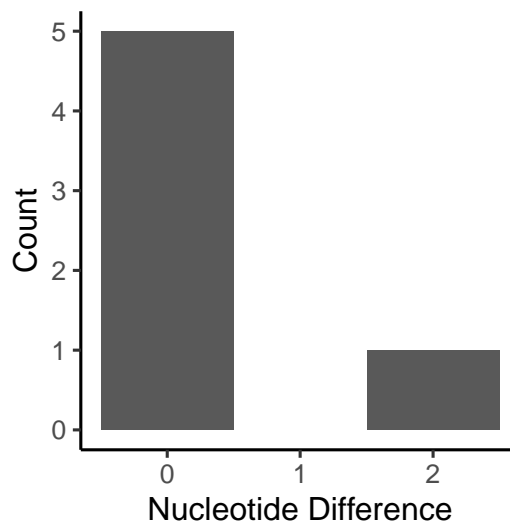
IGHV3-9*01

59 sequences assigned
31 (52.5%) exact matches, in which:
31 unique CDR3
5 unique J



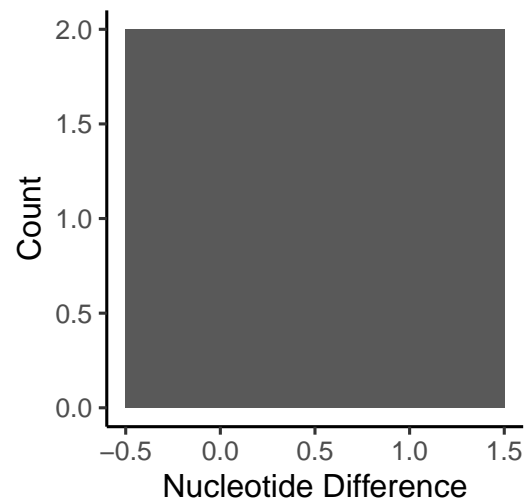
IGHV3-13*01

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



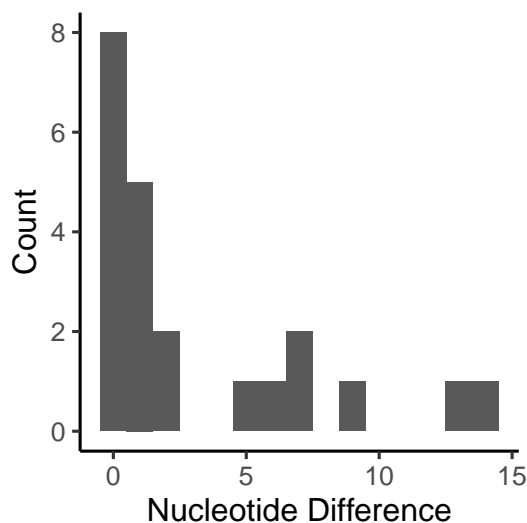
IGHV3-20*01

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



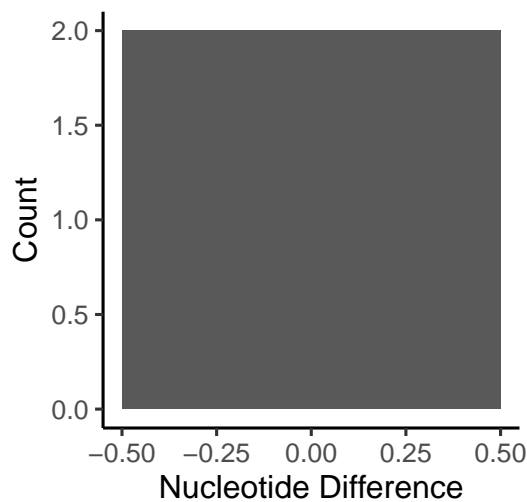
IGHV3-11*01

22 sequences assigned
8 (36.4%) exact matches, in which:
8 unique CDR3
3 unique J



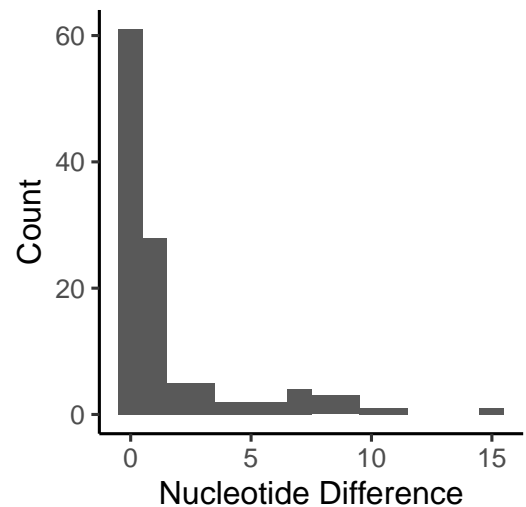
IGHV3-13*05

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



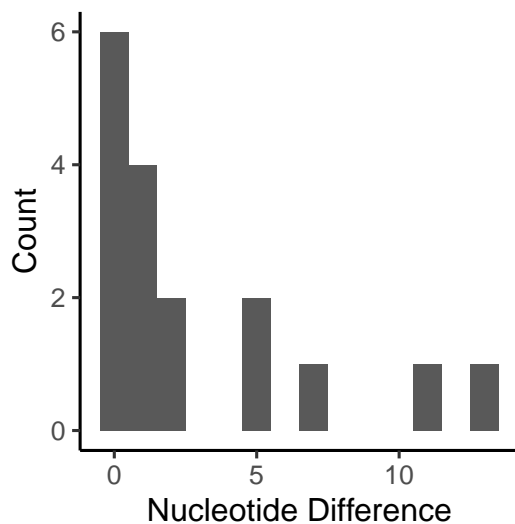
IGHV3-21*01

118 sequences assigned
61 (51.7%) exact matches, in which:
61 unique CDR3
6 unique J



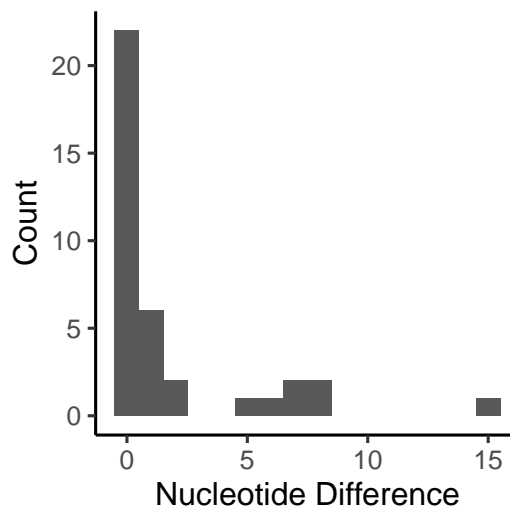
IGHV3-11*06

17 sequences assigned
6 (35.3%) exact matches, in which:
6 unique CDR3
3 unique J



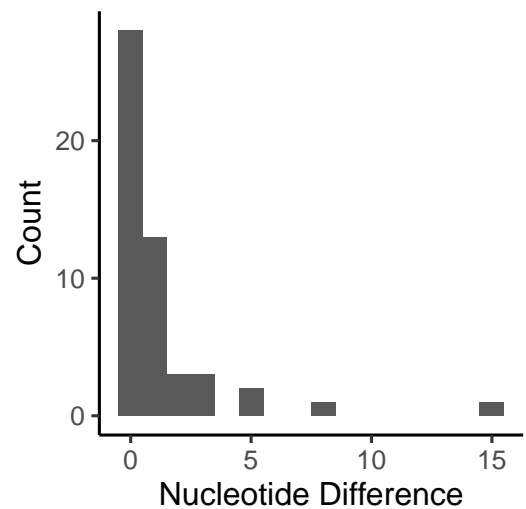
IGHV3-15*01

38 sequences assigned
22 (57.9%) exact matches, in which:
21 unique CDR3
5 unique J



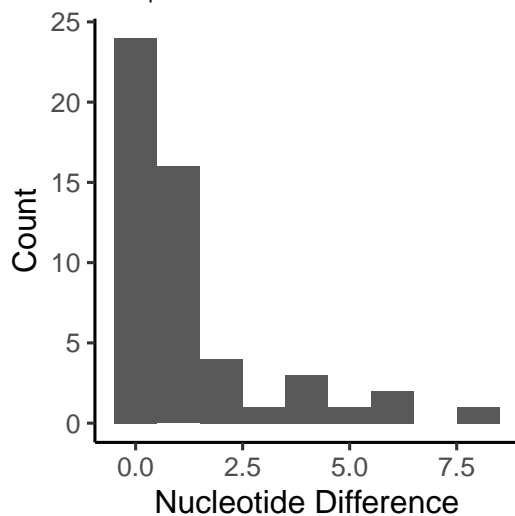
IGHV3-30-3*01

53 sequences assigned
28 (52.8%) exact matches, in which:
28 unique CDR3
4 unique J



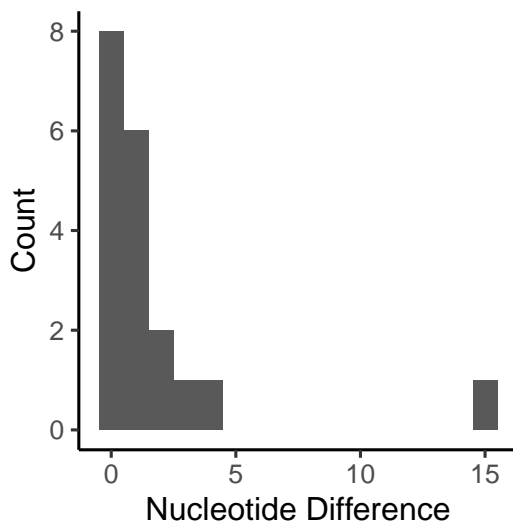
IGHV3-33*01

53 sequences assigned
24 (45.3%) exact matches, in which:
24 unique CDR3
4 unique J



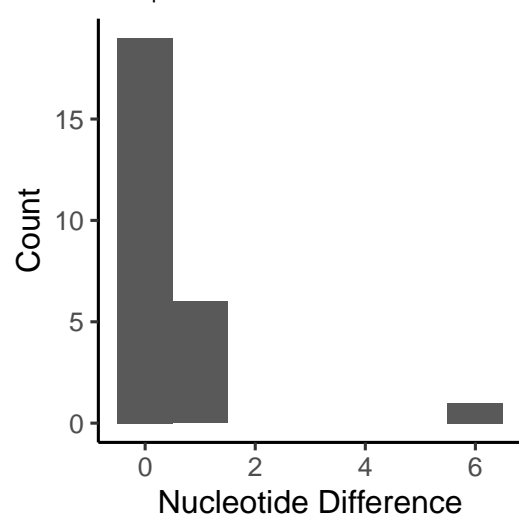
IGHV3-48*02

19 sequences assigned
8 (42.1%) exact matches, in which:
8 unique CDR3
4 unique J



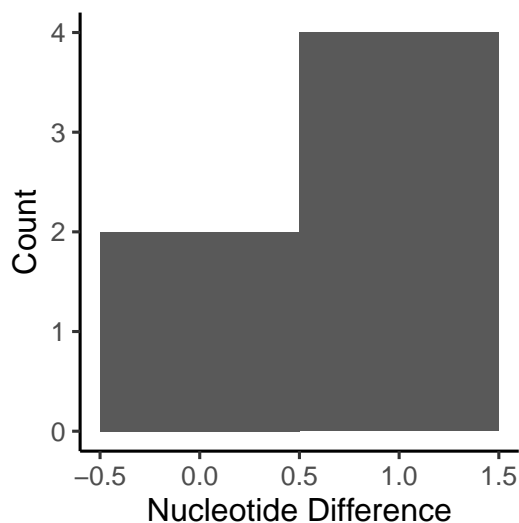
IGHV3-53*01

26 sequences assigned
19 (73.1%) exact matches, in which:
19 unique CDR3
4 unique J



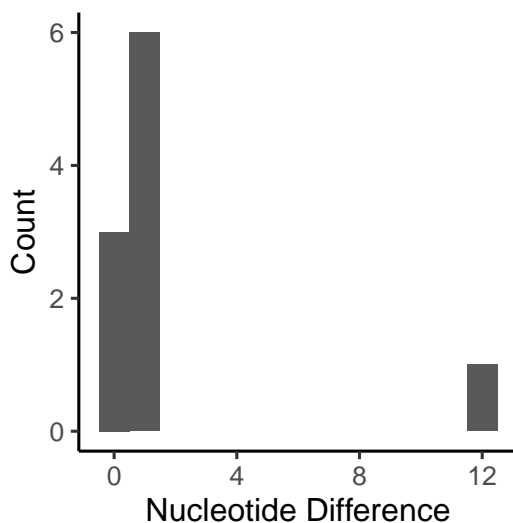
IGHV3-43*01

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



IGHV3-49*03

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



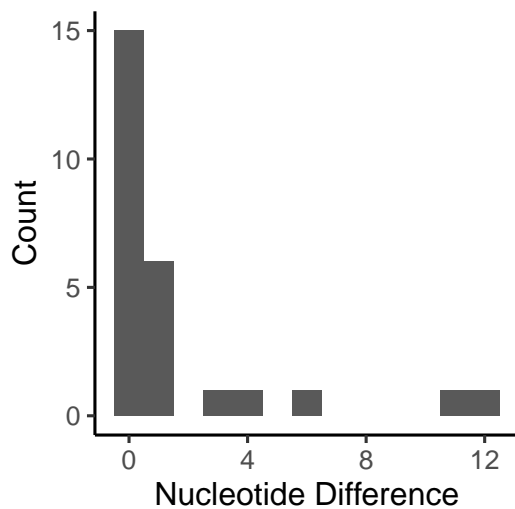
IGHV3-64*02

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



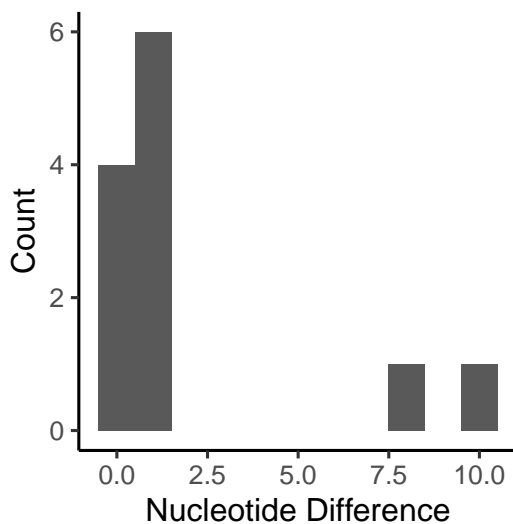
IGHV3-48*01

26 sequences assigned
15 (57.7%) exact matches, in which:
15 unique CDR3
4 unique J



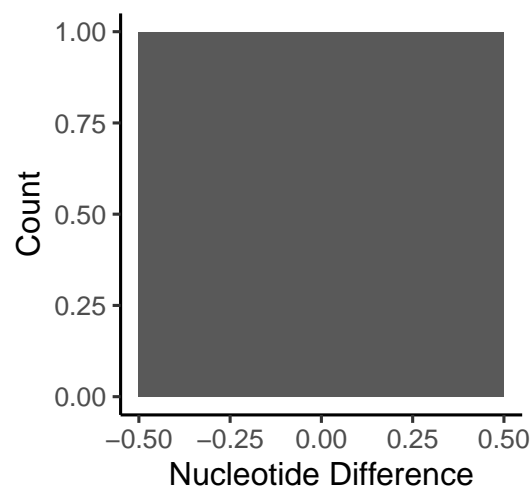
IGHV3-49*05

12 sequences assigned
4 (33.3%) exact matches, in which:
4 unique CDR3
2 unique J



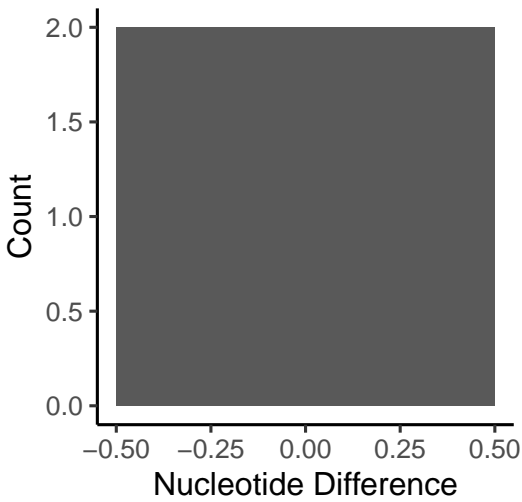
IGHV3-71*03

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



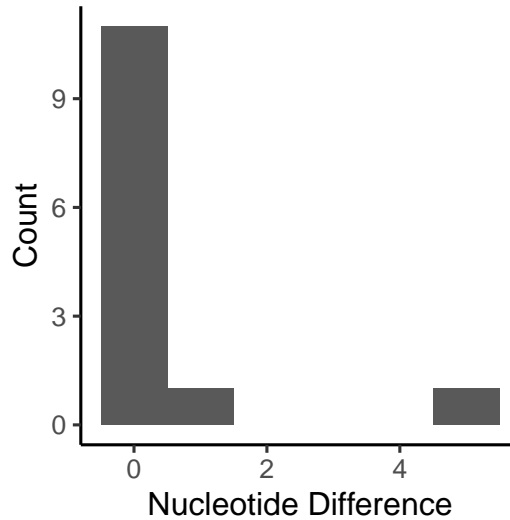
IGHV3-72*01

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



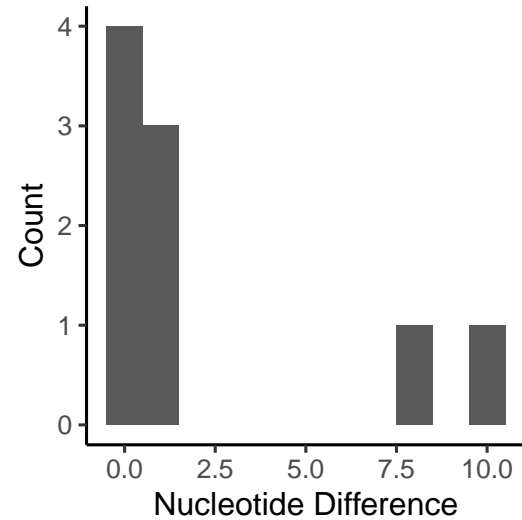
IGHV3-64D*06

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



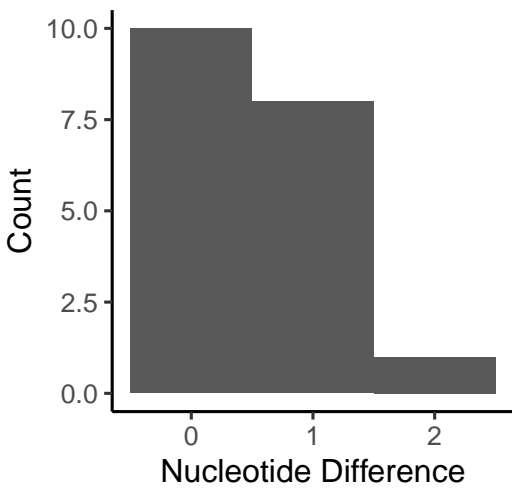
IGHV4-30-2*01

9 sequences assigned
4 (44.4%) exact matches, in which:
4 unique CDR3
3 unique J



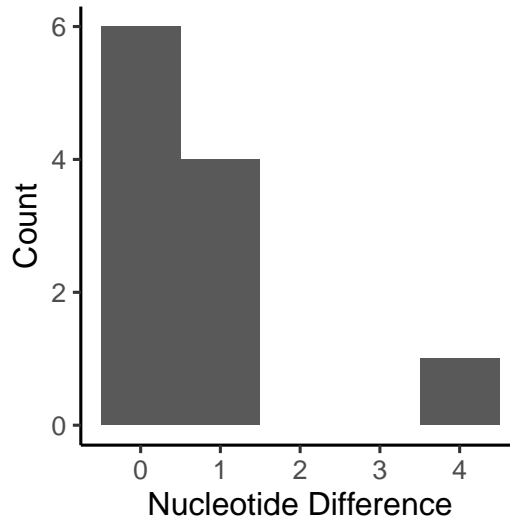
IGHV3-73*02

19 sequences assigned
10 (52.6%) exact matches, in which:
10 unique CDR3
3 unique J



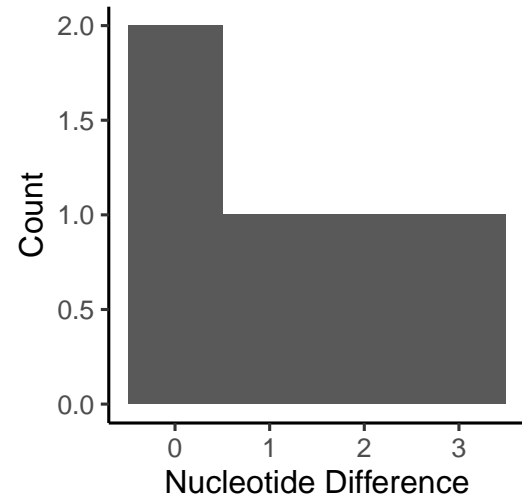
IGHV4-4*02

11 sequences assigned
6 (54.5%) exact matches, in which:
6 unique CDR3
3 unique J



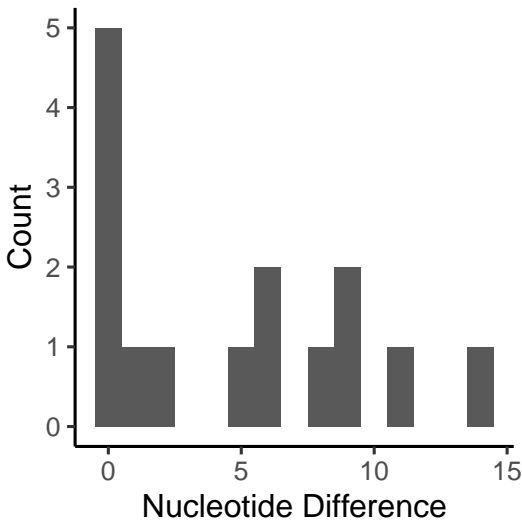
IGHV4-30-4*01

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



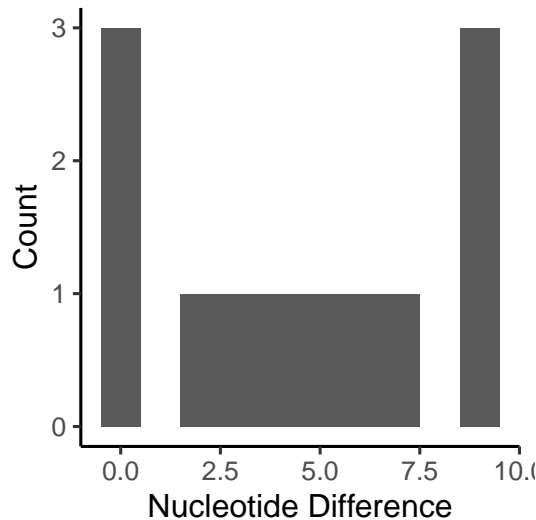
IGHV3-74*01

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



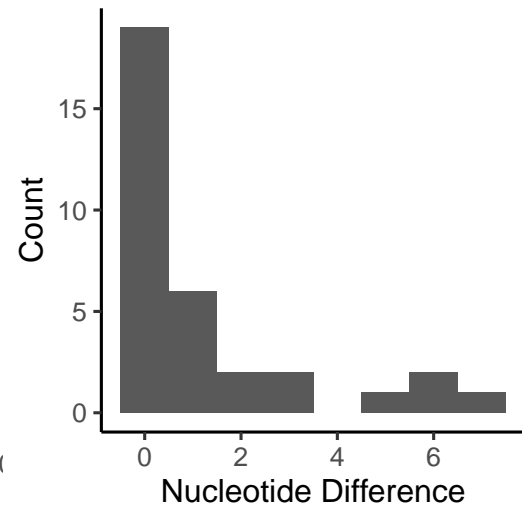
IGHV4-4*07

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



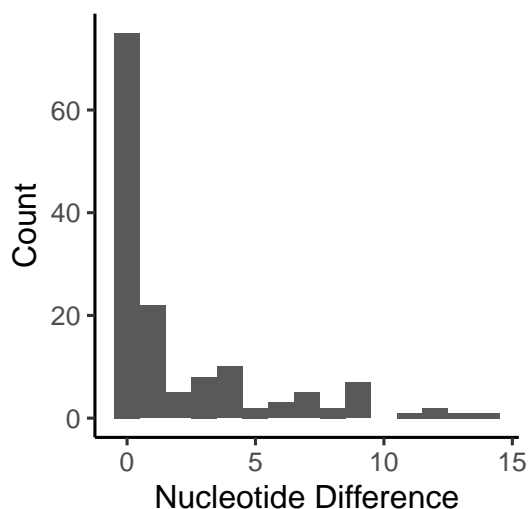
IGHV4-31*03

33 sequences assigned
19 (57.6%) exact matches, in which:
18 unique CDR3
5 unique J



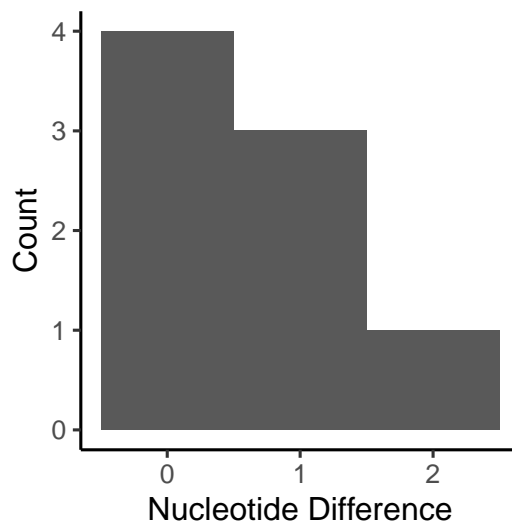
IGHV4-34*01

144 sequences assigned
75 (52.1%) exact matches, in which:
73 unique CDR3
6 unique J



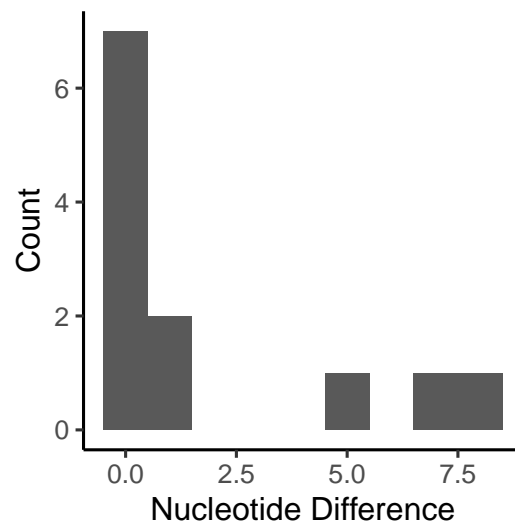
IGHV4-61*01

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



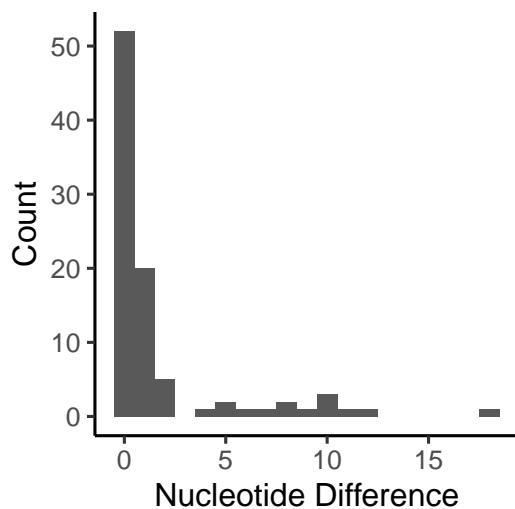
IGHV6-1*01

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



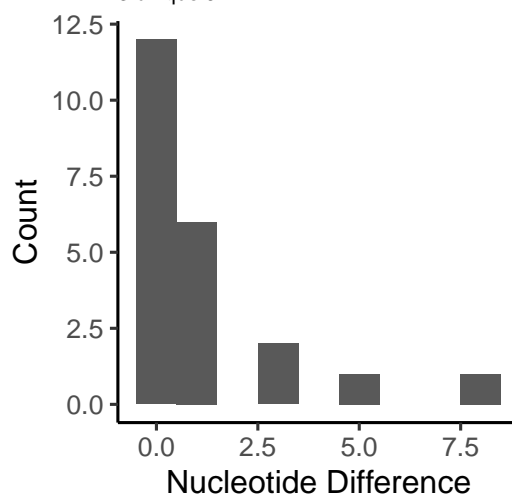
IGHV4-39*01

91 sequences assigned
52 (57.1%) exact matches, in which:
52 unique CDR3
6 unique J



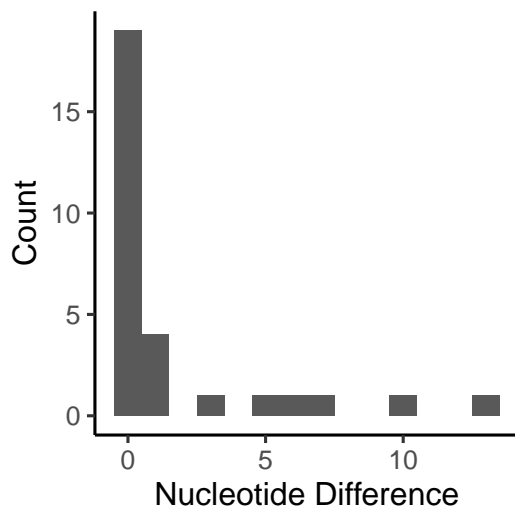
IGHV5-10-1*03

22 sequences assigned
12 (54.5%) exact matches, in which:
11 unique CDR3
3 unique J



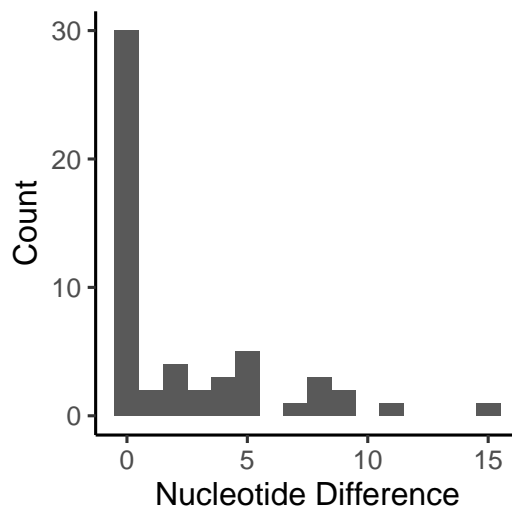
IGHV4-59*01

29 sequences assigned
19 (65.5%) exact matches, in which:
19 unique CDR3
5 unique J



IGHV5-51*01

54 sequences assigned
30 (55.6%) exact matches, in which:
29 unique CDR3
5 unique J





[illegible]