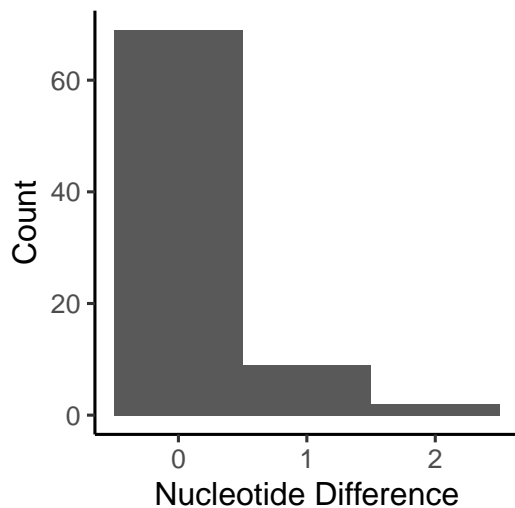


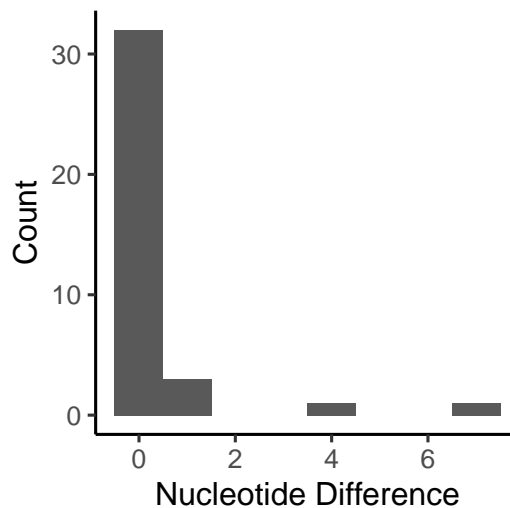
IGHV1-2*02

81 sequences assigned
69 (85.2%) exact matches, in which:
69 unique CDR3
6 unique J



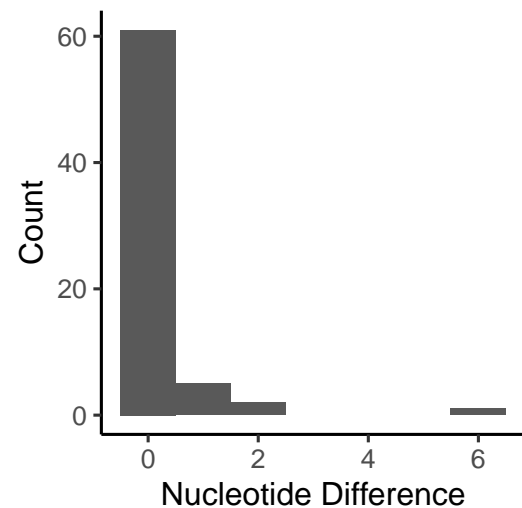
IGHV1-8*01

37 sequences assigned
32 (86.5%) exact matches, in which:
32 unique CDR3
5 unique J



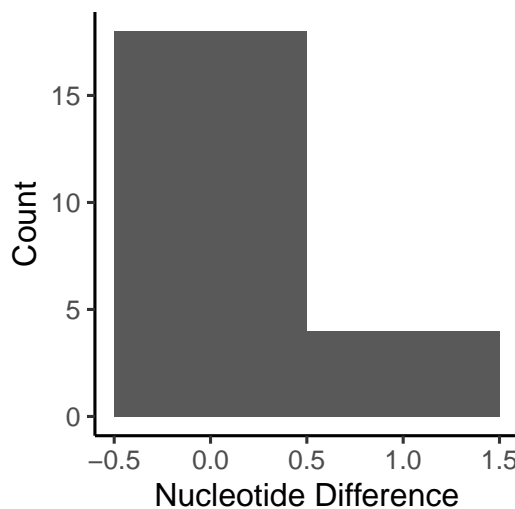
IGHV1-24*01

69 sequences assigned
61 (88.4%) exact matches, in which:
61 unique CDR3
5 unique J



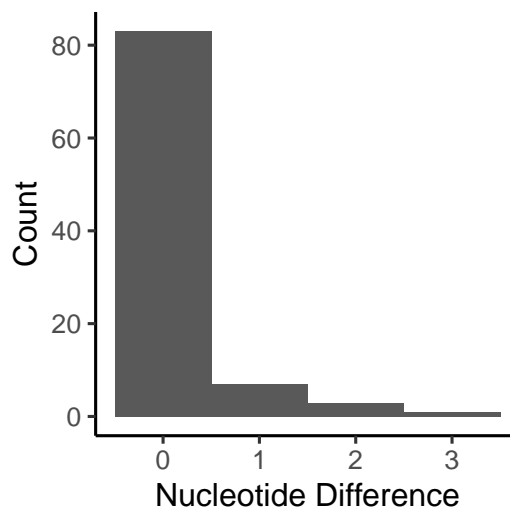
IGHV1-2*04

22 sequences assigned
18 (81.8%) exact matches, in which:
18 unique CDR3
4 unique J



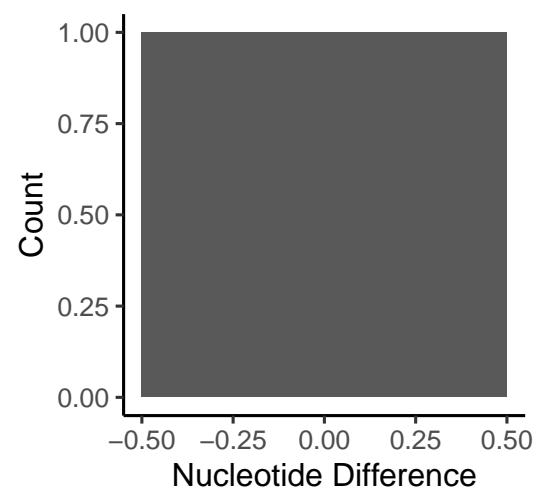
IGHV1-18*01

94 sequences assigned
83 (88.3%) exact matches, in which:
83 unique CDR3
5 unique J



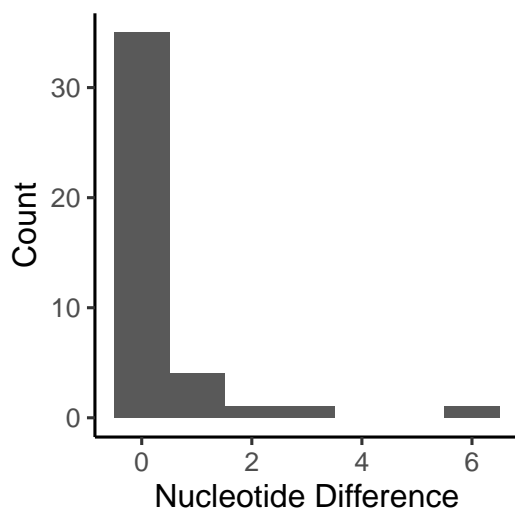
IGHV1-45*02

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



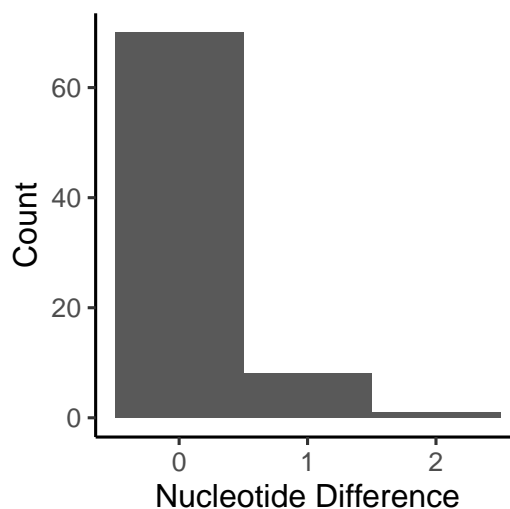
IGHV1-3*01

42 sequences assigned
35 (83.3%) exact matches, in which:
35 unique CDR3
4 unique J



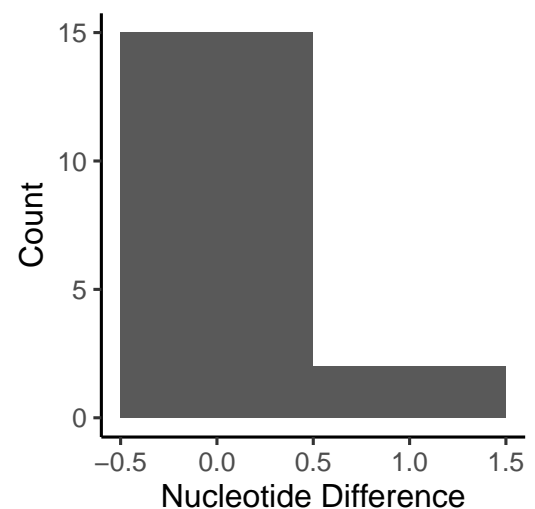
IGHV1-18*04

79 sequences assigned
70 (88.6%) exact matches, in which:
70 unique CDR3
5 unique J



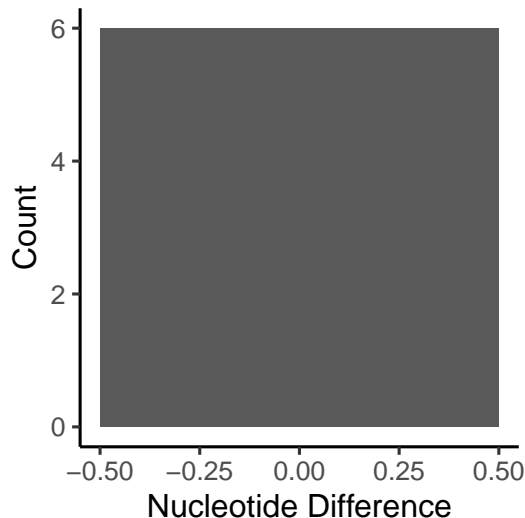
IGHV1-46*01

17 sequences assigned
15 (88.2%) exact matches, in which:
15 unique CDR3
4 unique J



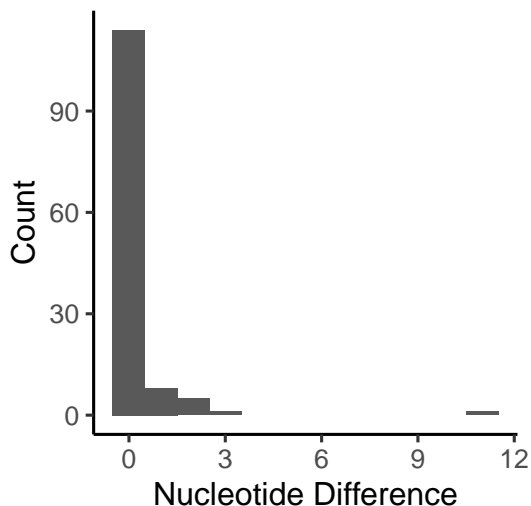
IGHV1-58*01

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



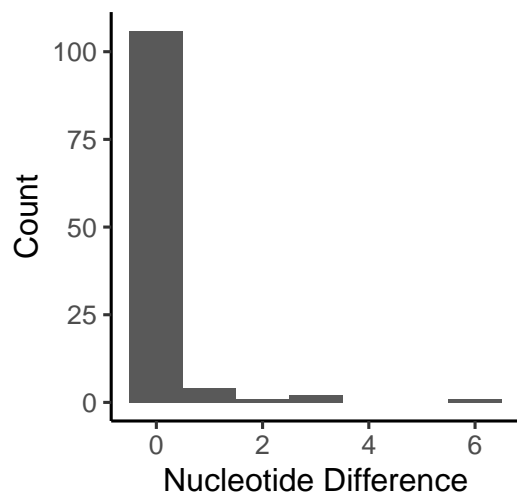
IGHV1-69*01

129 sequences assigned
114 (88.4%) exact matches, in which:
114 unique CDR3
5 unique J



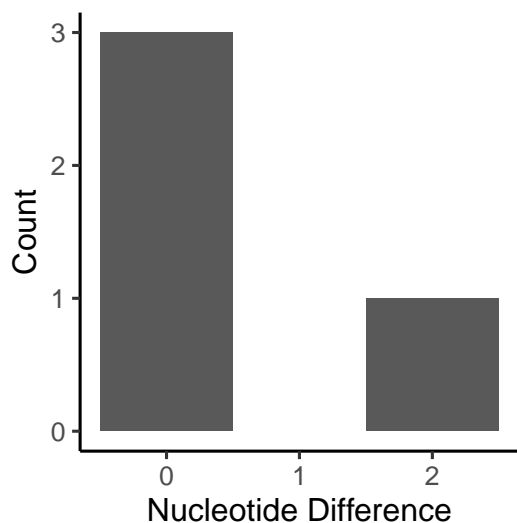
IGHV2-5*01

114 sequences assigned
106 (93%) exact matches, in which:
106 unique CDR3
5 unique J



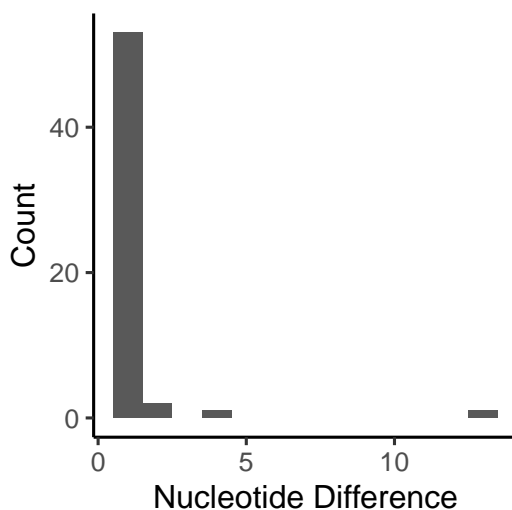
IGHV1-58*02

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



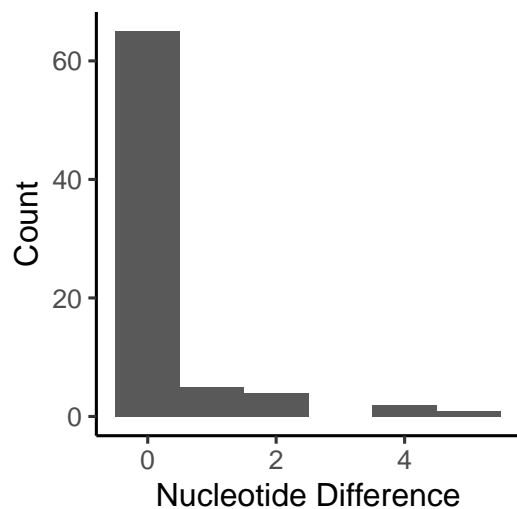
IGHV1-69*04

57 sequences assigned
No exact matches.



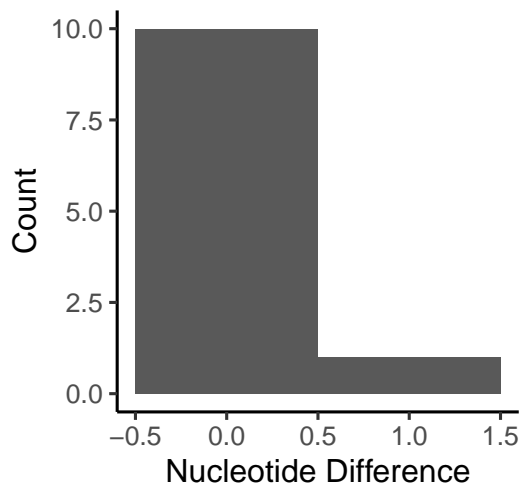
IGHV2-5*02

77 sequences assigned
65 (84.4%) exact matches, in which:
65 unique CDR3
6 unique J



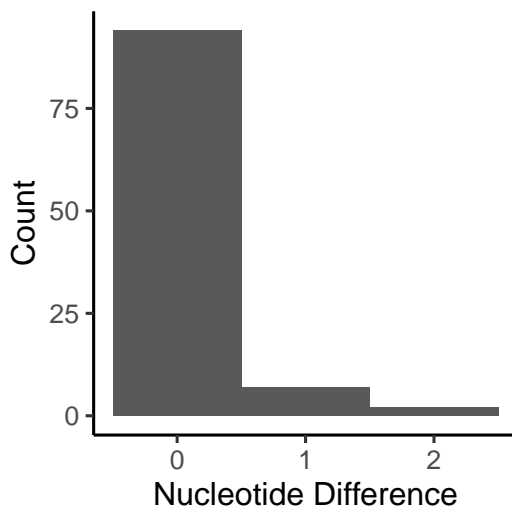
IGHV1-69-2*01

11 sequences assigned
10 (90.9%) exact matches, in which:
10 unique CDR3
2 unique J



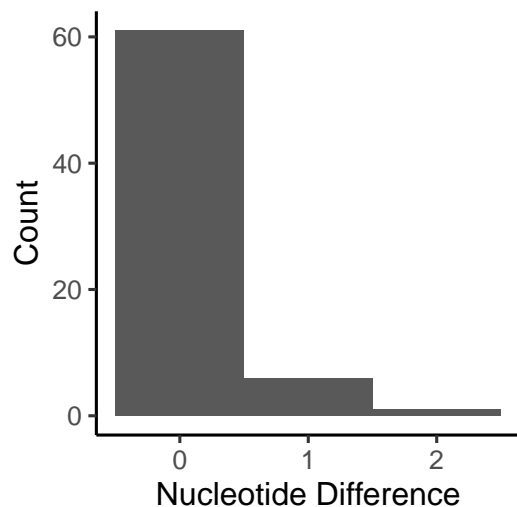
IGHV1-69*06

103 sequences assigned
94 (91.3%) exact matches, in which:
94 unique CDR3
6 unique J



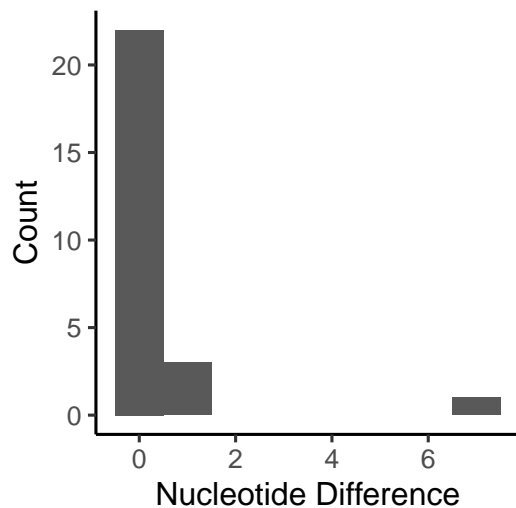
IGHV2-26*01

68 sequences assigned
61 (89.7%) exact matches, in which:
61 unique CDR3
5 unique J



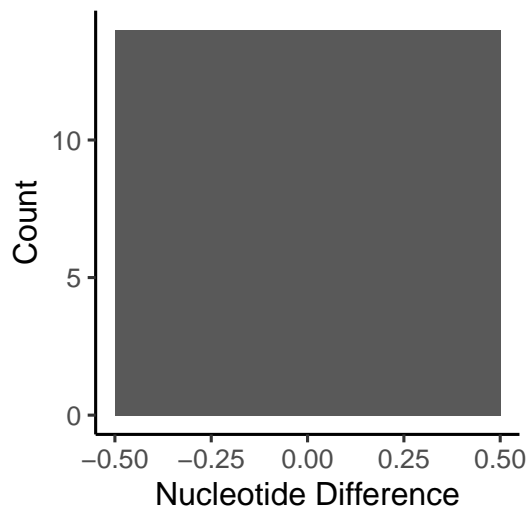
IGHV2-70*01

26 sequences assigned
22 (84.6%) exact matches, in which:
22 unique CDR3
3 unique J



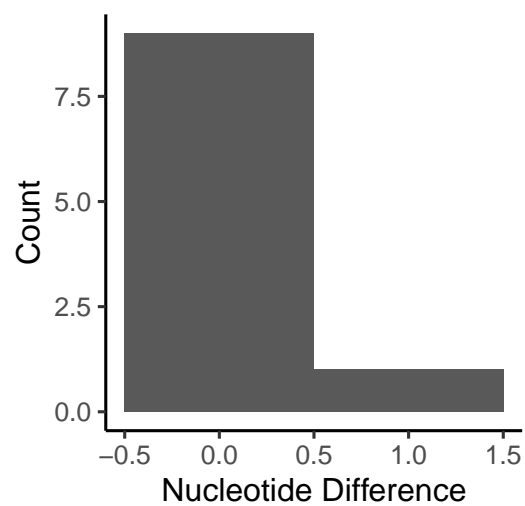
IGHV3-7*01

14 sequences assigned
14 (100%) exact matches, in which:
14 unique CDR3
5 unique J



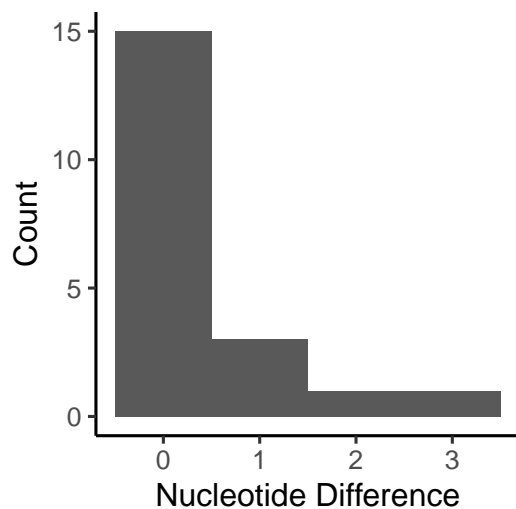
IGHV3-11*01

10 sequences assigned
9 (90%) exact matches, in which:
9 unique CDR3
4 unique J



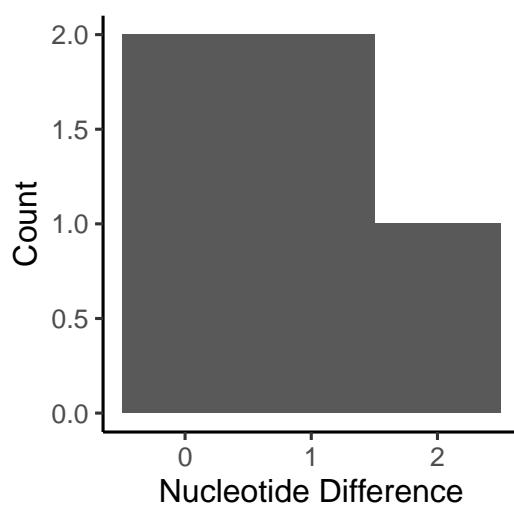
IGHV2-70*04

20 sequences assigned
15 (75%) exact matches, in which:
15 unique CDR3
3 unique J



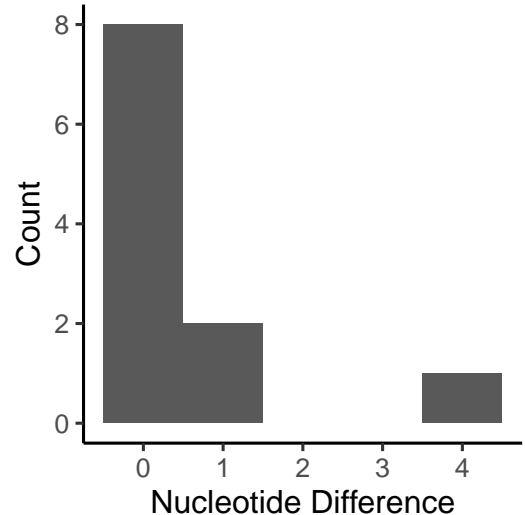
IGHV3-7*03

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



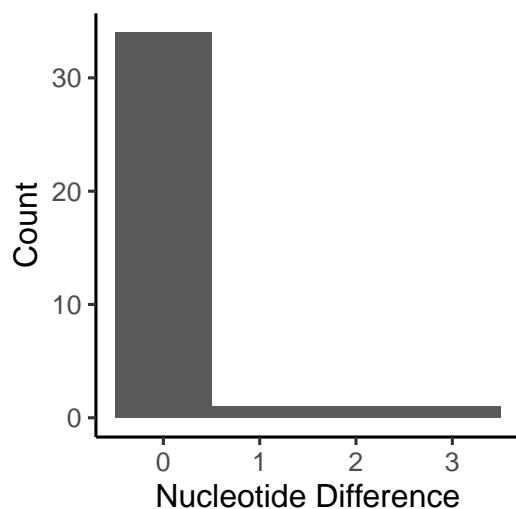
IGHV3-11*06

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



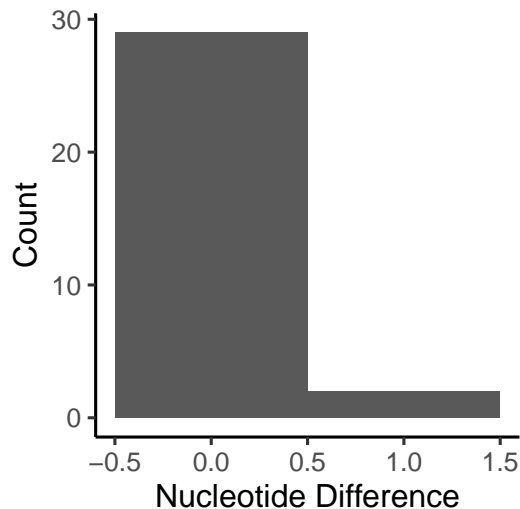
IGHV2-70*15

37 sequences assigned
34 (91.9%) exact matches, in which:
34 unique CDR3
5 unique J



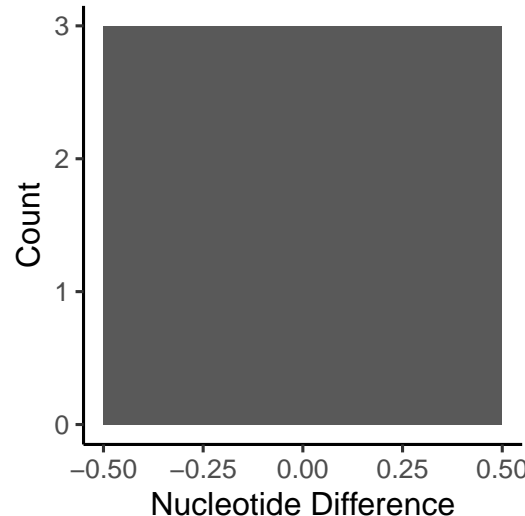
IGHV3-9*01

31 sequences assigned
29 (93.5%) exact matches, in which:
29 unique CDR3
6 unique J



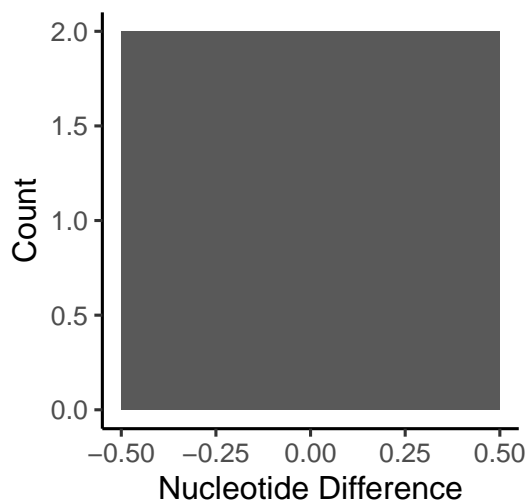
IGHV3-13*01

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



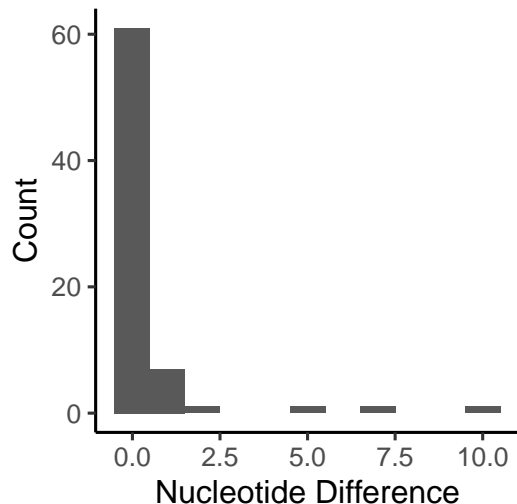
IGHV3-13*05

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



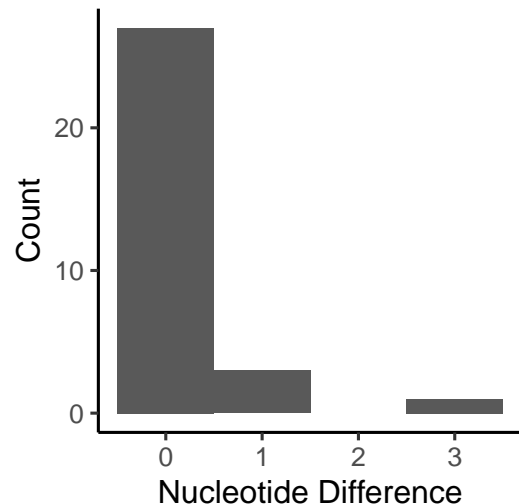
IGHV3-23*01

72 sequences assigned
61 (84.7%) exact matches, in which:
61 unique CDR3
6 unique J



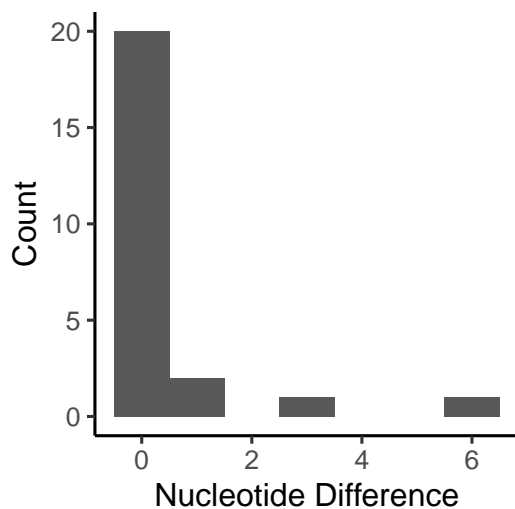
IGHV3-30*04

31 sequences assigned
27 (87.1%) exact matches, in which:
27 unique CDR3
5 unique J



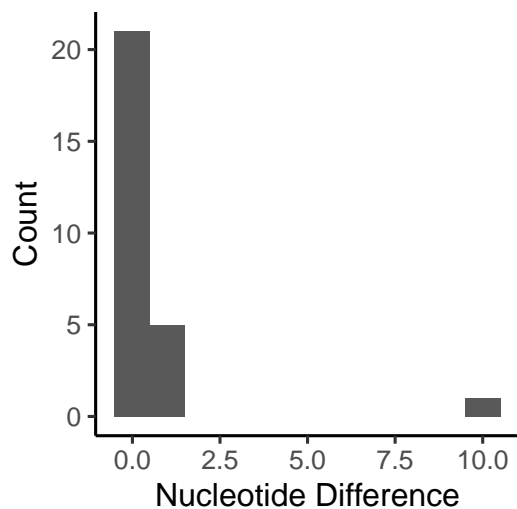
IGHV3-15*01

24 sequences assigned
20 (83.3%) exact matches, in which:
20 unique CDR3
5 unique J



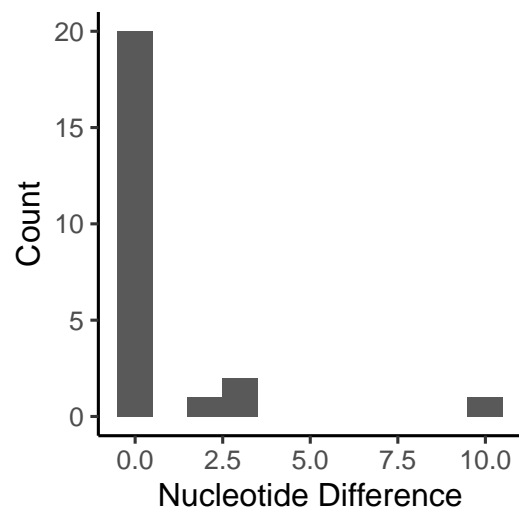
IGHV3-30-3*01

27 sequences assigned
21 (77.8%) exact matches, in which:
21 unique CDR3
5 unique J



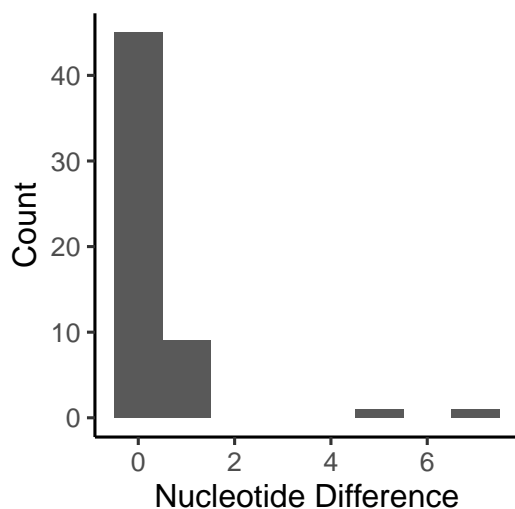
IGHV3-30*18

24 sequences assigned
20 (83.3%) exact matches, in which:
20 unique CDR3
4 unique J



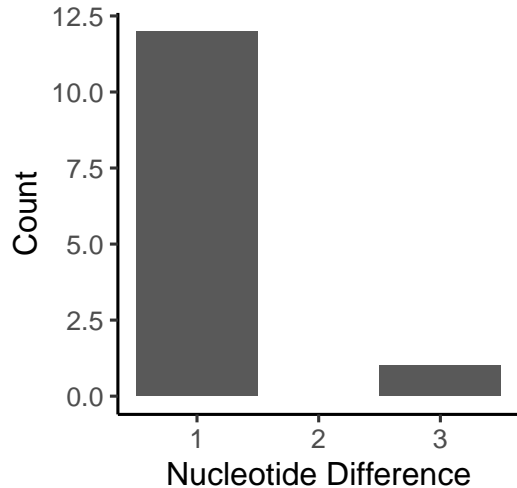
IGHV3-21*01

56 sequences assigned
45 (80.4%) exact matches, in which:
45 unique CDR3
6 unique J



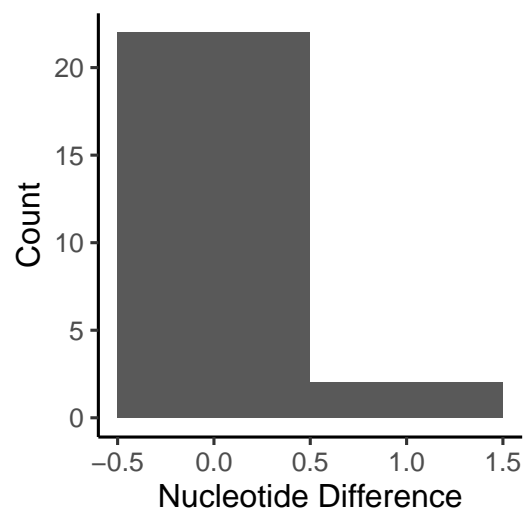
IGHV3-30*02

13 sequences assigned
No exact matches.



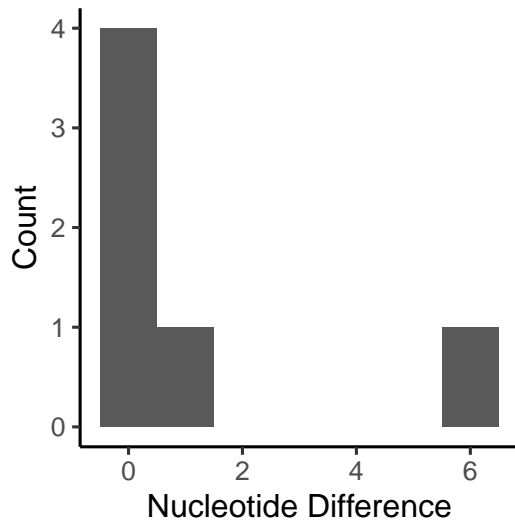
IGHV3-33*01

24 sequences assigned
22 (91.7%) exact matches, in which:
22 unique CDR3
4 unique J



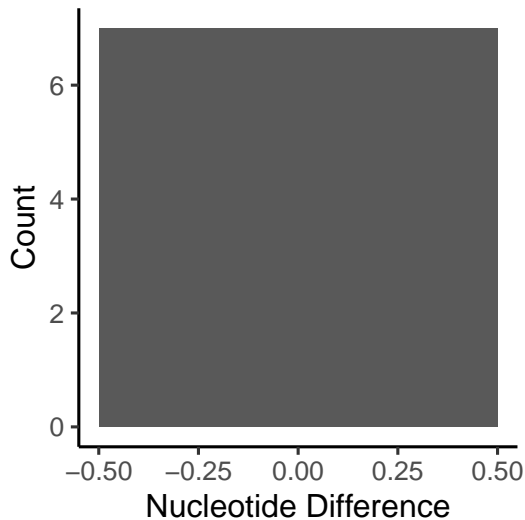
IGHV3-43*01

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



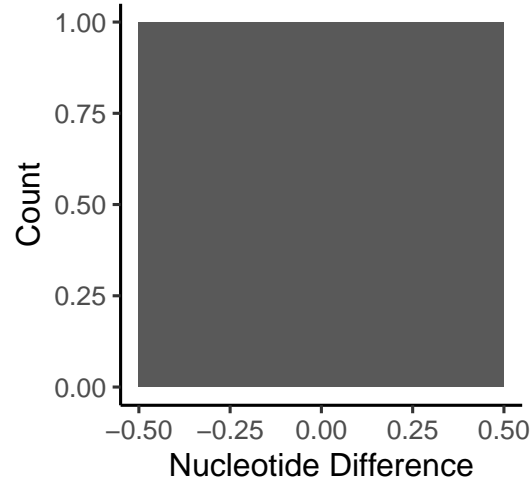
IGHV3-49*03

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
3 unique J



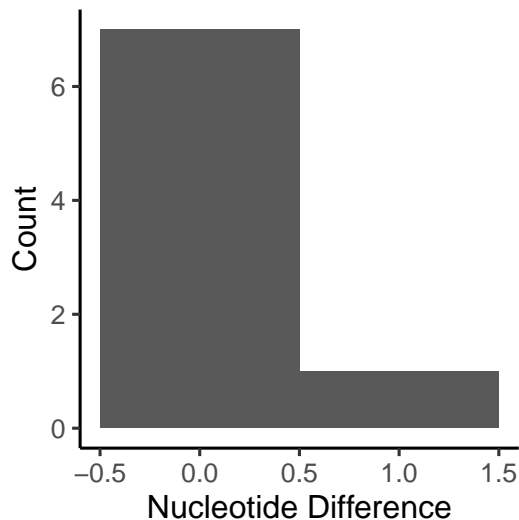
IGHV3-64*01

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



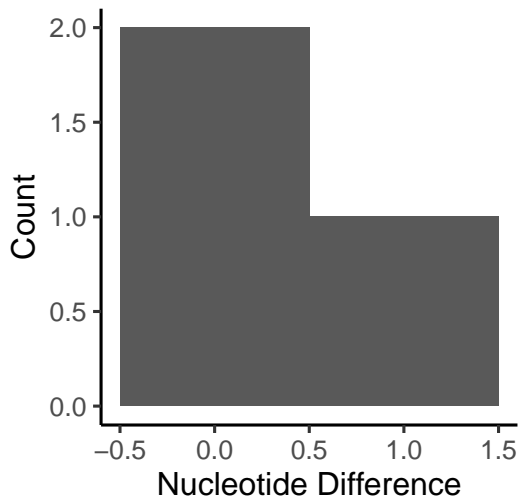
IGHV3-48*02

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
2 unique J



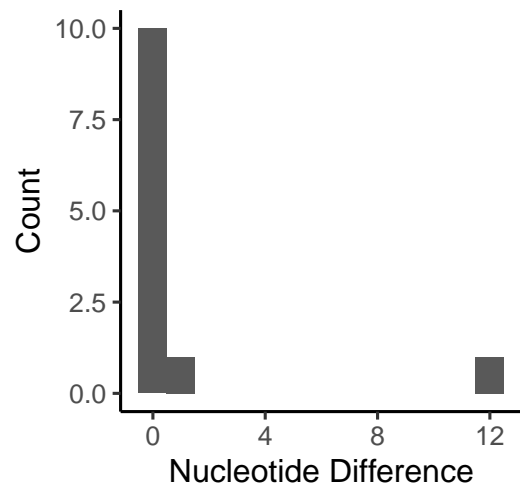
IGHV3-49*05

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



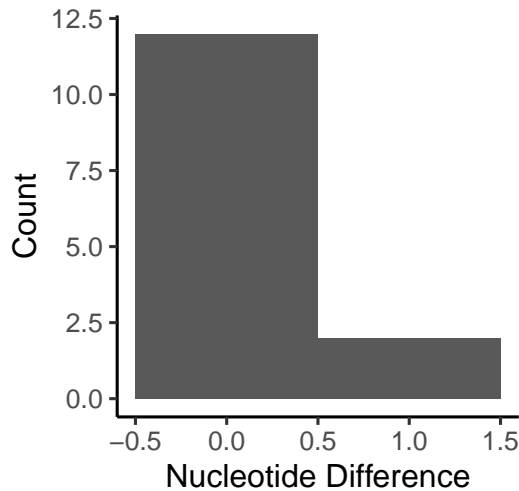
IGHV3-66*01

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



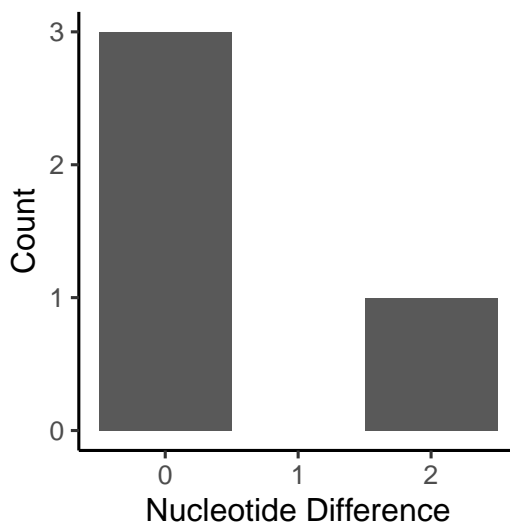
IGHV3-48*04

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



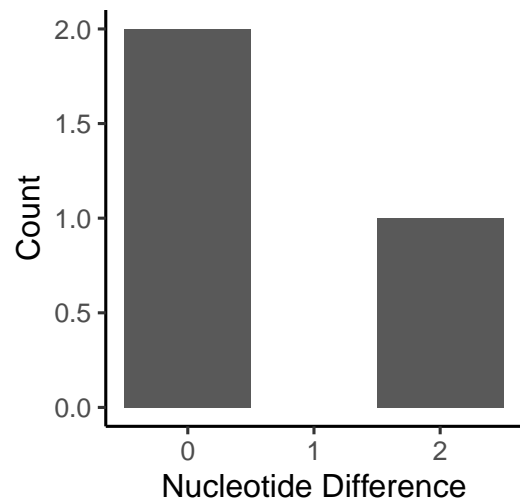
IGHV3-53*04

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



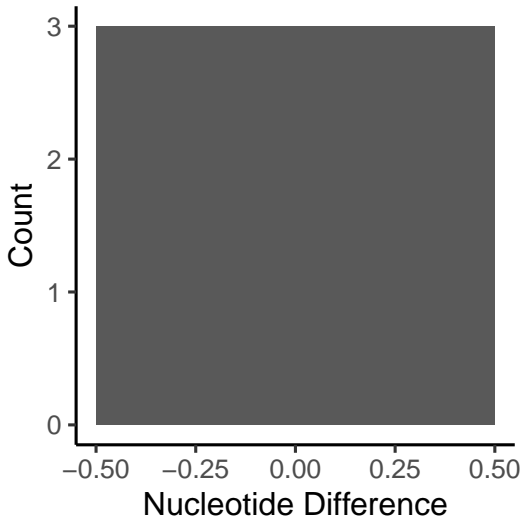
IGHV3-72*01

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



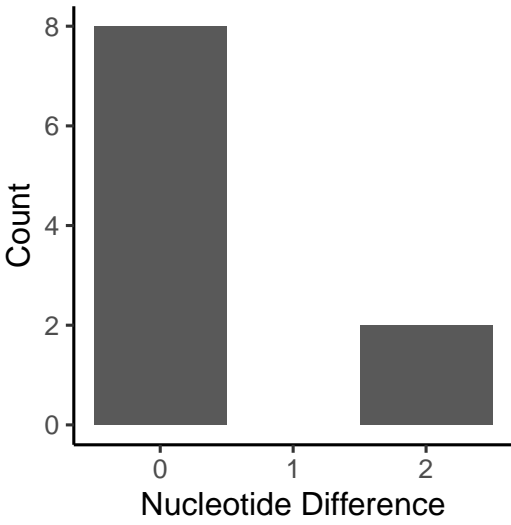
IGHV3-73*01

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



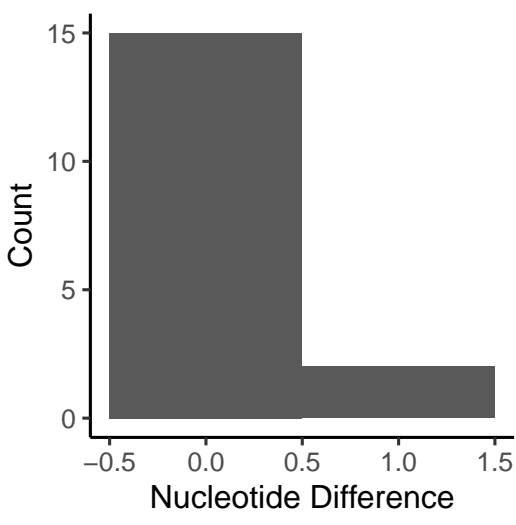
IGHV3-64D*06

10 sequences assigned
8 (80%) exact matches, in which:
7 unique CDR3
3 unique J



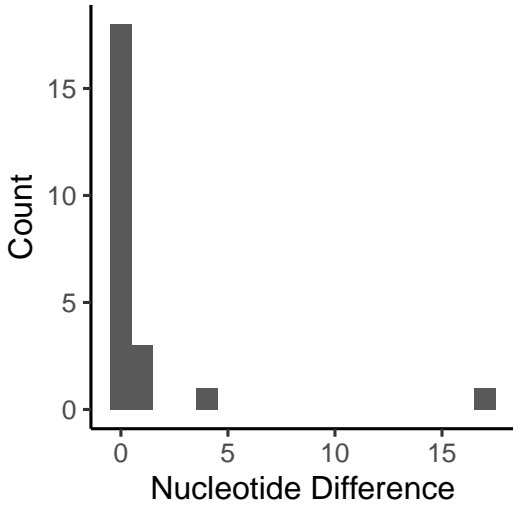
IGHV4-30-4*01

17 sequences assigned
15 (88.2%) exact matches, in which:
15 unique CDR3
4 unique J



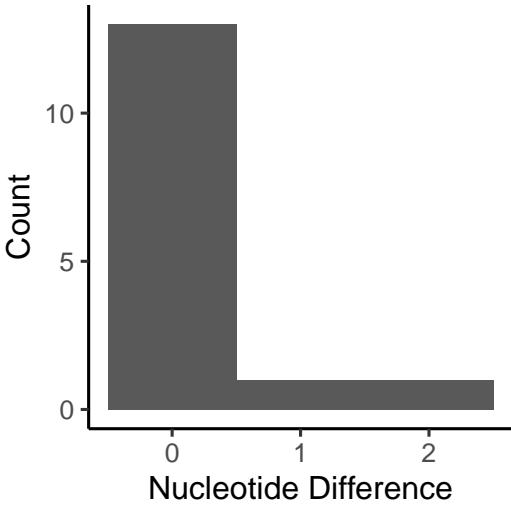
IGHV3-74*01

23 sequences assigned
18 (78.3%) exact matches, in which:
18 unique CDR3
4 unique J



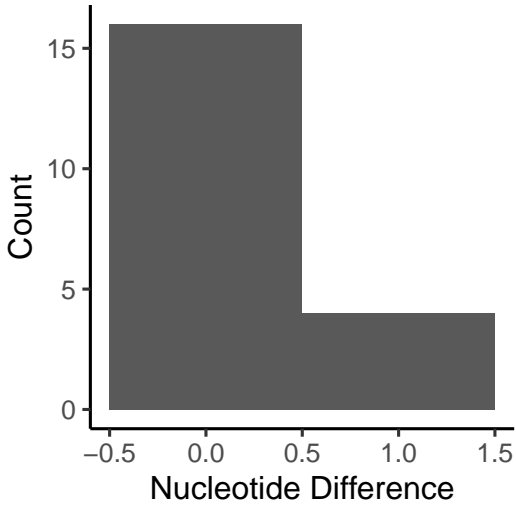
IGHV4-4*02

15 sequences assigned
13 (86.7%) exact matches, in which:
13 unique CDR3
4 unique J



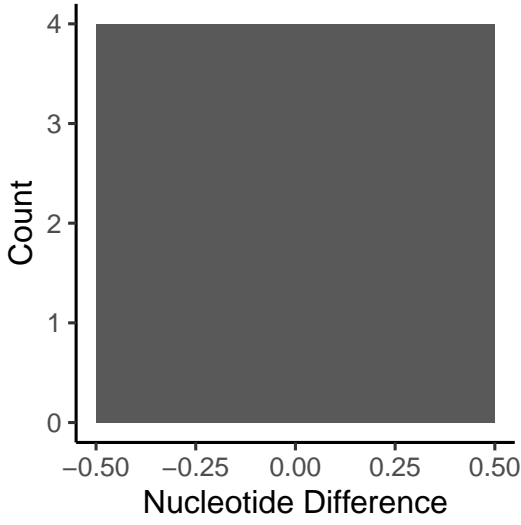
IGHV4-30-2*01

20 sequences assigned
16 (80%) exact matches, in which:
16 unique CDR3
4 unique J



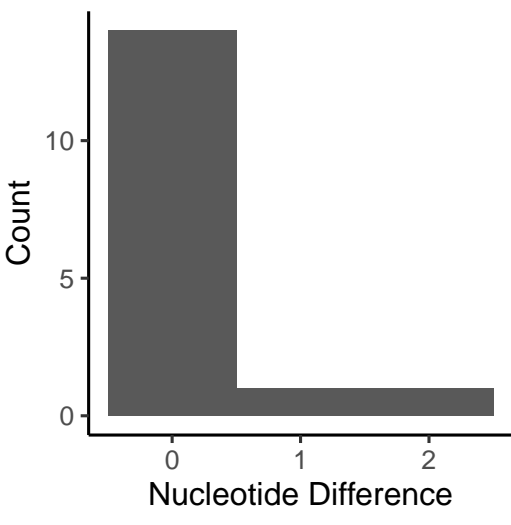
IGHV3-43D*03

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



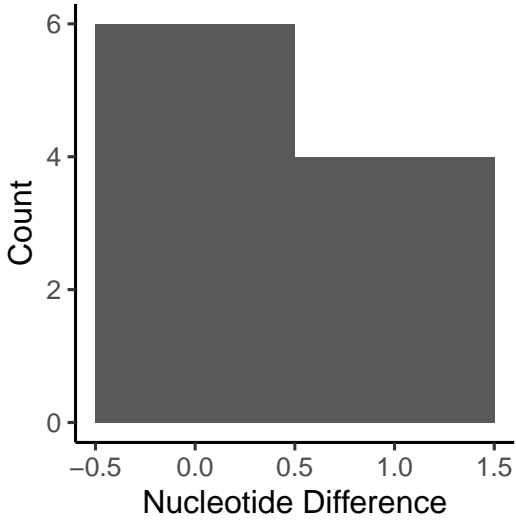
IGHV4-4*07

16 sequences assigned
14 (87.5%) exact matches, in which:
14 unique CDR3
4 unique J



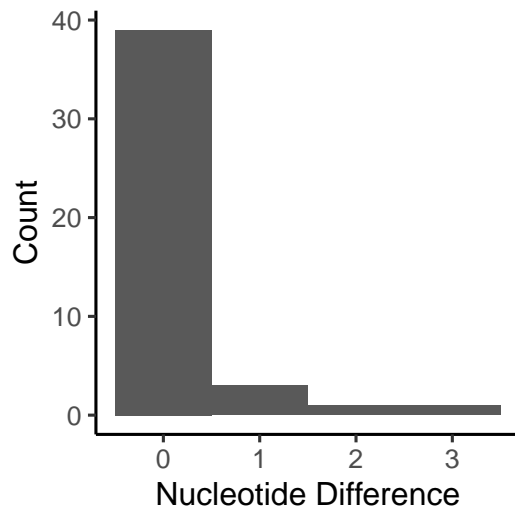
IGHV4-30-4*07

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



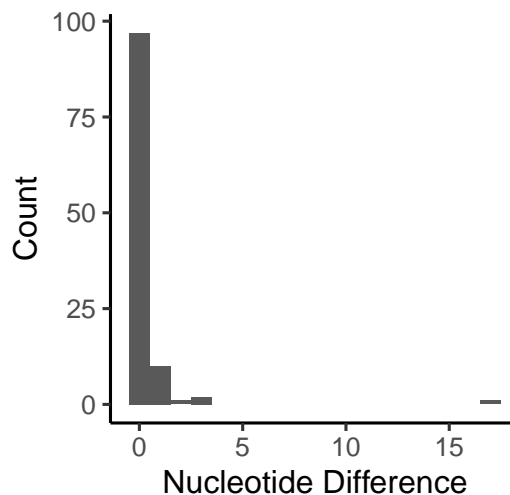
IGHV4-31*03

44 sequences assigned
39 (88.6%) exact matches, in which:
39 unique CDR3
5 unique J



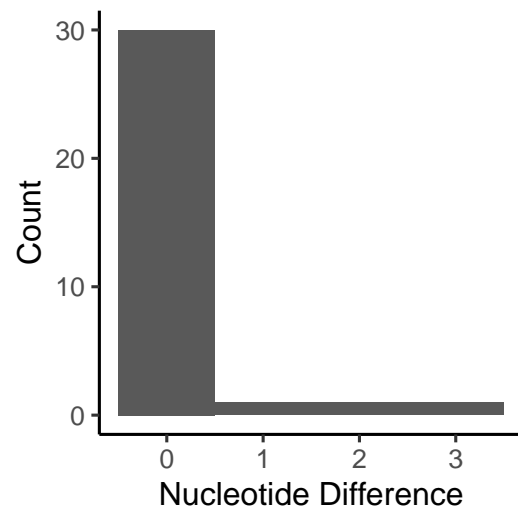
IGHV4-39*01

111 sequences assigned
97 (87.4%) exact matches, in which:
97 unique CDR3
6 unique J



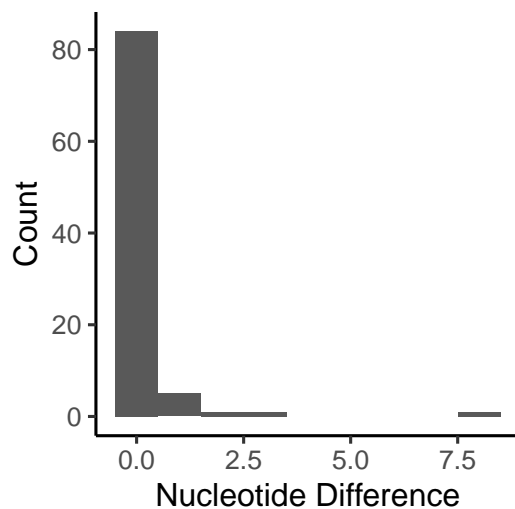
IGHV4-59*08

33 sequences assigned
30 (90.9%) exact matches, in which:
30 unique CDR3
5 unique J



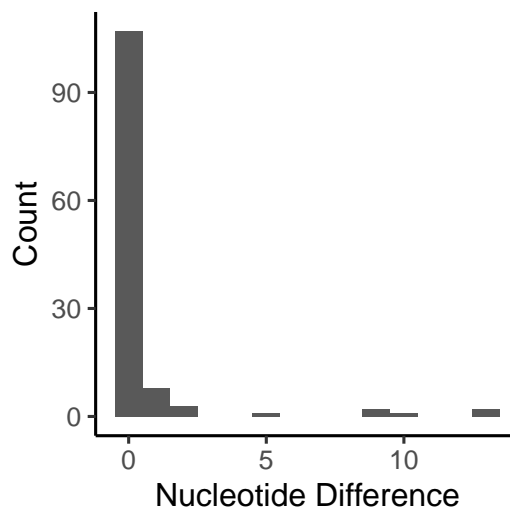
IGHV4-34*01

92 sequences assigned
84 (91.3%) exact matches, in which:
84 unique CDR3
6 unique J



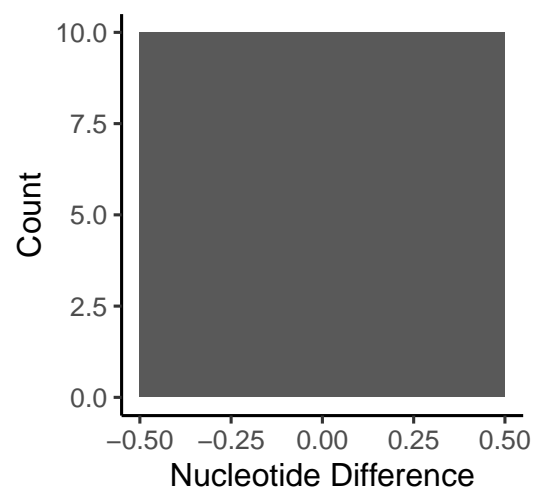
IGHV4-39*07

124 sequences assigned
107 (86.3%) exact matches, in which:
107 unique CDR3
5 unique J



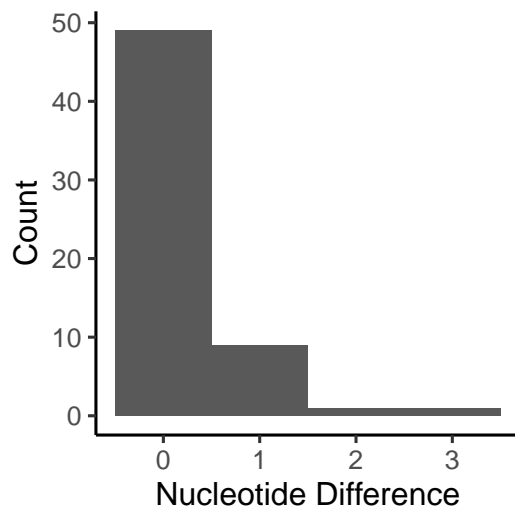
IGHV4-61*01

10 sequences assigned
10 (100%) exact matches, in which:
10 unique CDR3
3 unique J



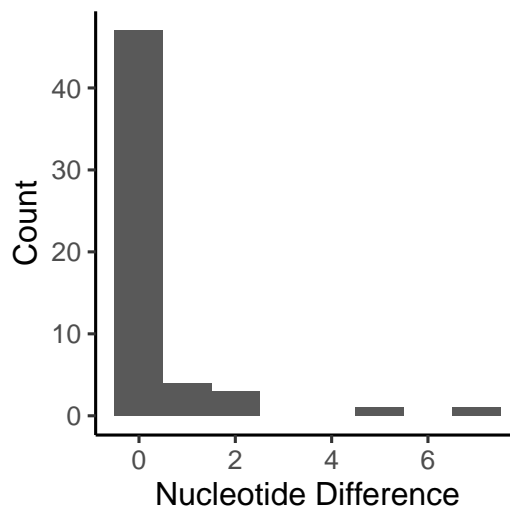
IGHV4-38-2*02

60 sequences assigned
49 (81.7%) exact matches, in which:
49 unique CDR3
4 unique J



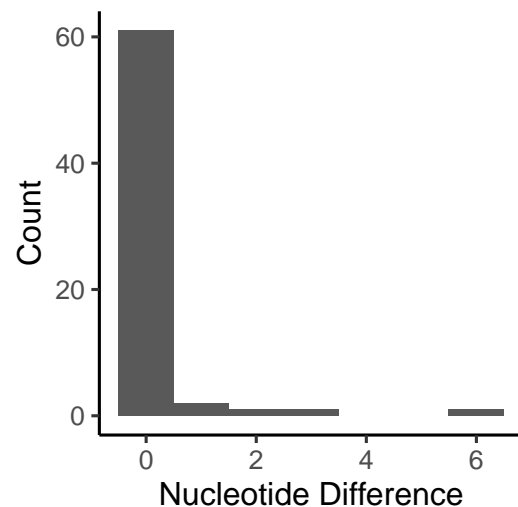
IGHV4-59*01

56 sequences assigned
47 (83.9%) exact matches, in which:
47 unique CDR3
5 unique J



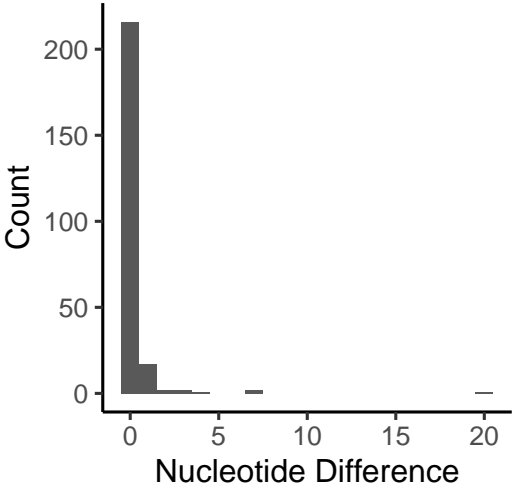
IGHV5-10-1*03

66 sequences assigned
61 (92.4%) exact matches, in which:
61 unique CDR3
6 unique J



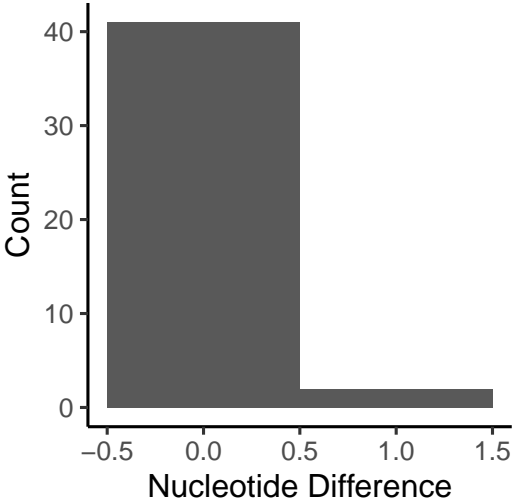
IGHV5–51*01

241 sequences assigned
216 (89.6%) exact matches, in which:
216 unique CDR3
6 unique J



IGHV6–1*01

43 sequences assigned
41 (95.3%) exact matches, in which:
41 unique CDR3
4 unique J





Warning – no inferred sequences found.