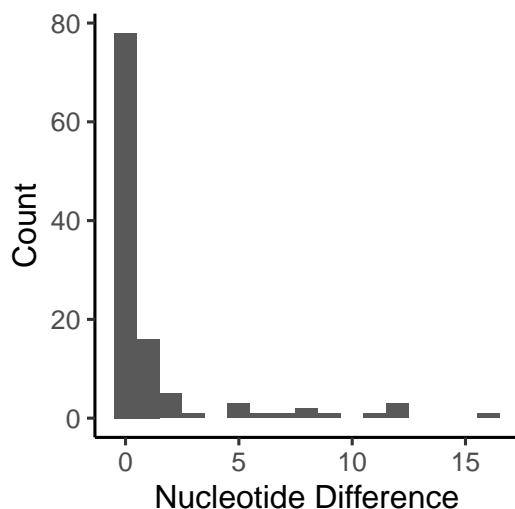


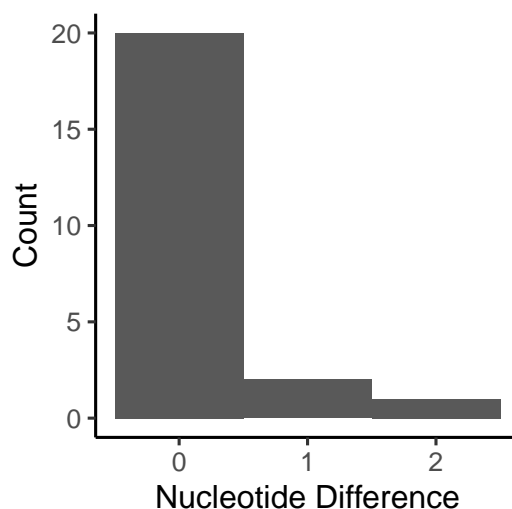
IGHV1-2*02

115 sequences assigned
78 (67.8%) exact matches, in which:
78 unique CDR3
5 unique J



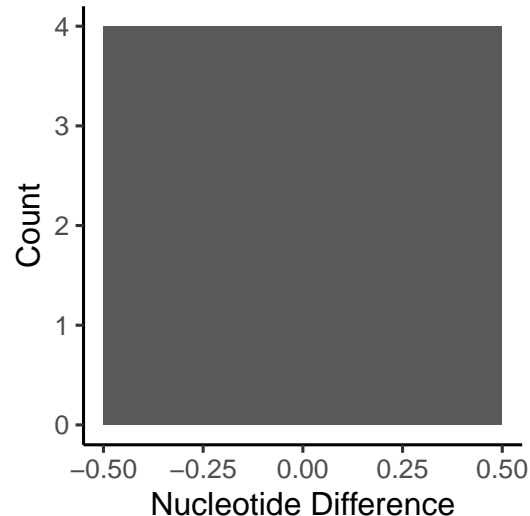
IGHV1-24*01

23 sequences assigned
20 (87%) exact matches, in which:
20 unique CDR3
4 unique J



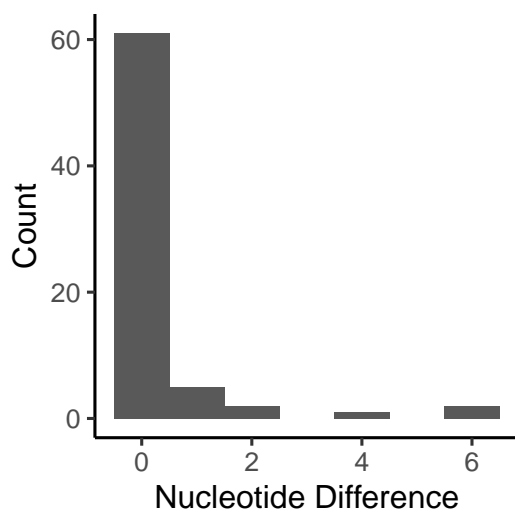
IGHV1-58*01

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



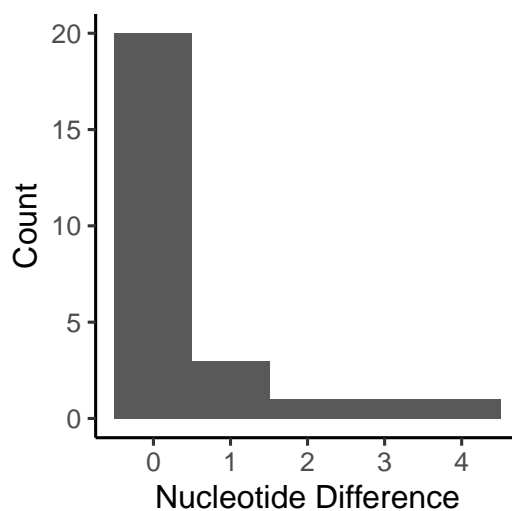
IGHV1-8*01

71 sequences assigned
61 (85.9%) exact matches, in which:
61 unique CDR3
5 unique J



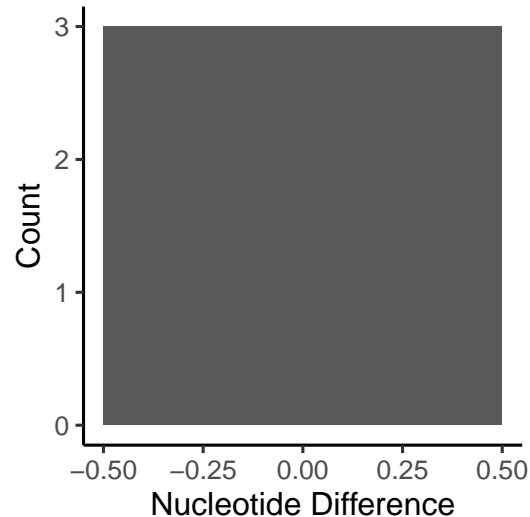
IGHV1-46*01

26 sequences assigned
20 (76.9%) exact matches, in which:
20 unique CDR3
5 unique J



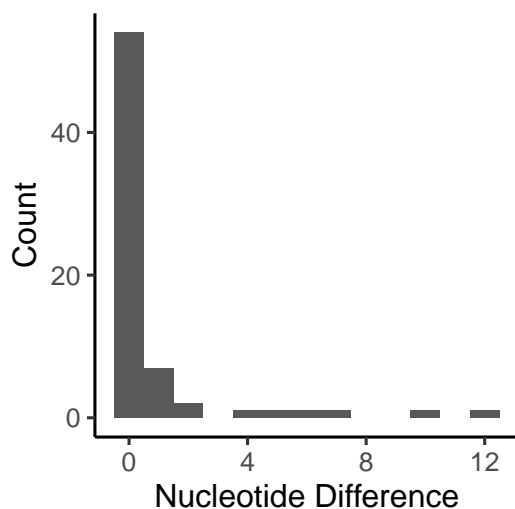
IGHV1-58*02

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



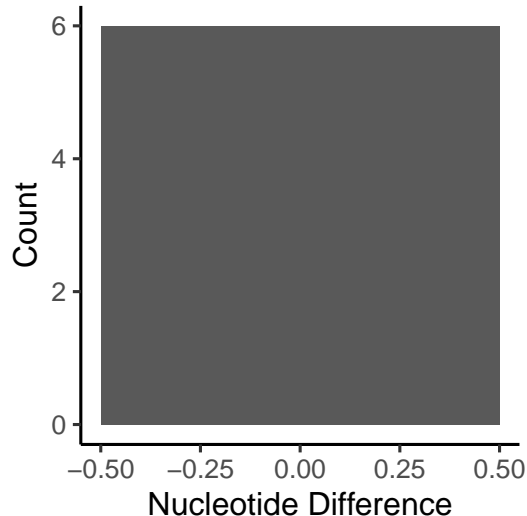
IGHV1-18*01

69 sequences assigned
54 (78.3%) exact matches, in which:
54 unique CDR3
6 unique J



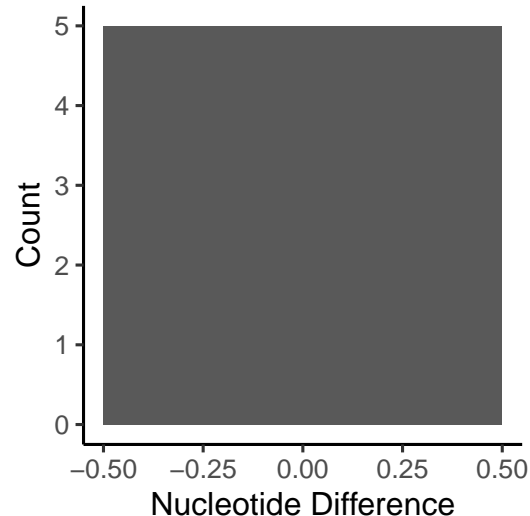
IGHV1-46*03

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



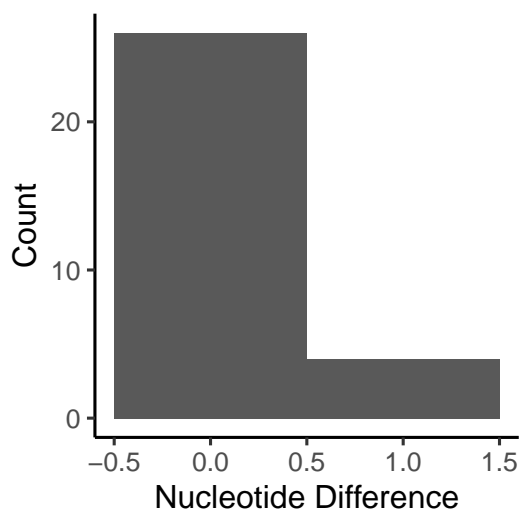
IGHV1-69-2*01

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



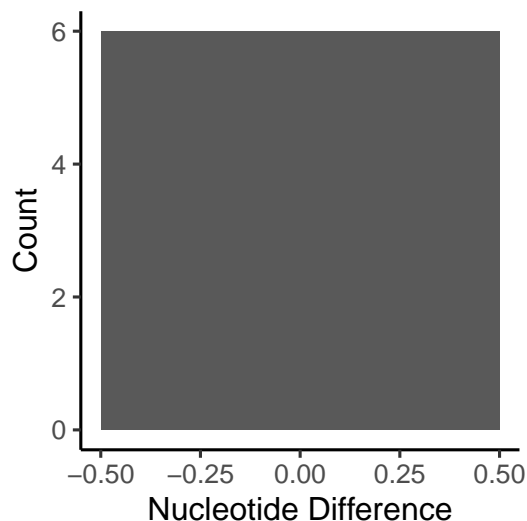
IGHV1-69*06

30 sequences assigned
26 (86.7%) exact matches, in which:
26 unique CDR3
5 unique J



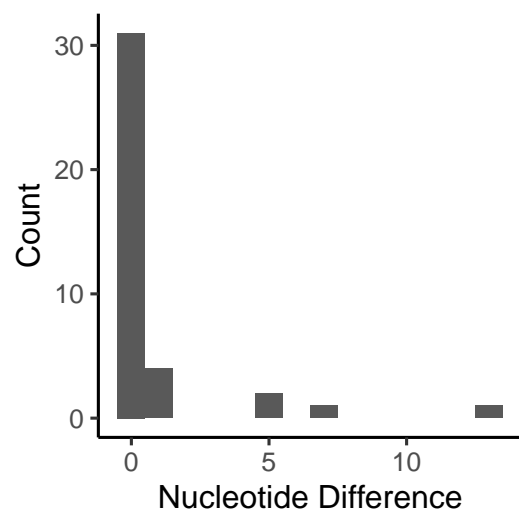
IGHV2-70*01

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



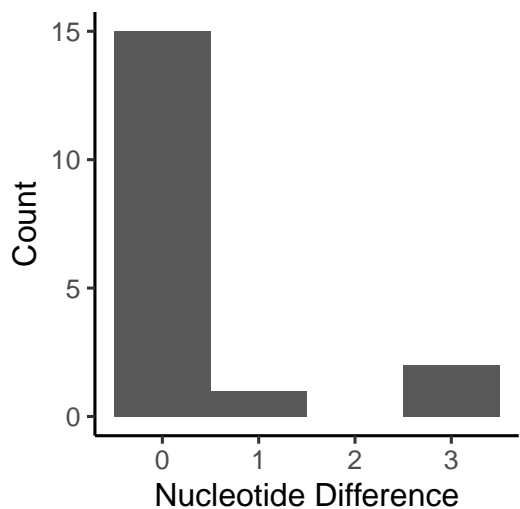
IGHV3-11*01

39 sequences assigned
31 (79.5%) exact matches, in which:
31 unique CDR3
5 unique J



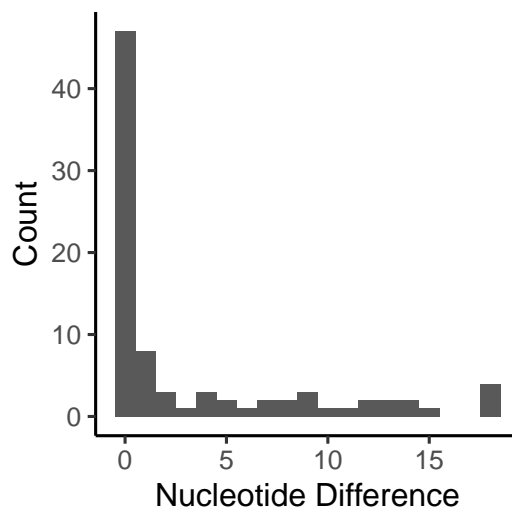
IGHV2-5*01

18 sequences assigned
15 (83.3%) exact matches, in which:
15 unique CDR3
6 unique J



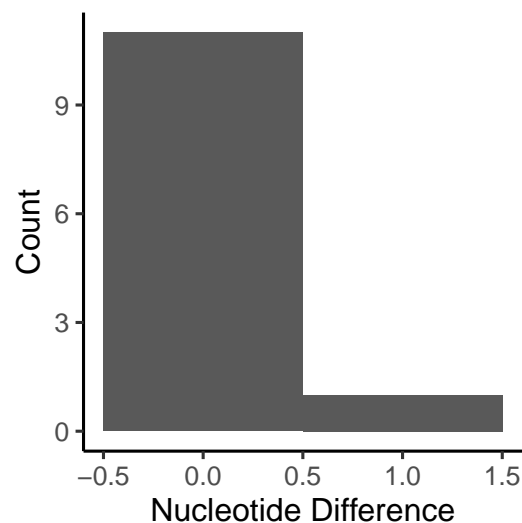
IGHV3-7*01

86 sequences assigned
47 (54.7%) exact matches, in which:
47 unique CDR3
6 unique J



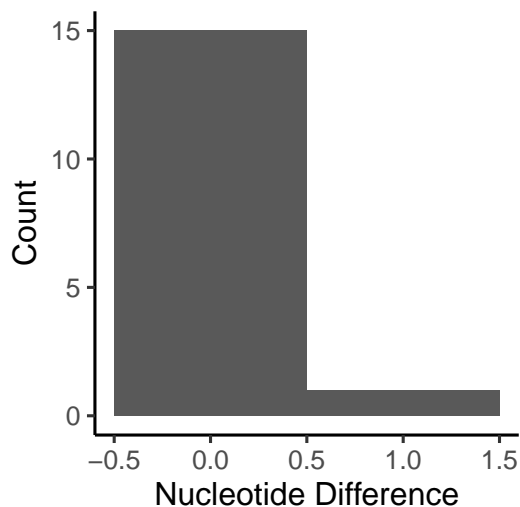
IGHV3-13*01

12 sequences assigned
11 (91.7%) exact matches, in which:
11 unique CDR3
4 unique J



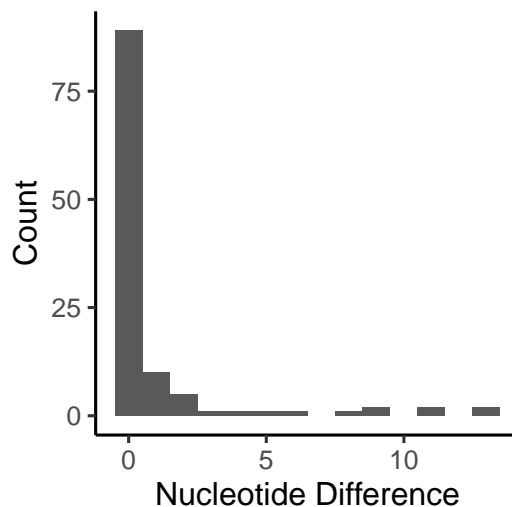
IGHV2-26*01

16 sequences assigned
15 (93.8%) exact matches, in which:
15 unique CDR3
5 unique J



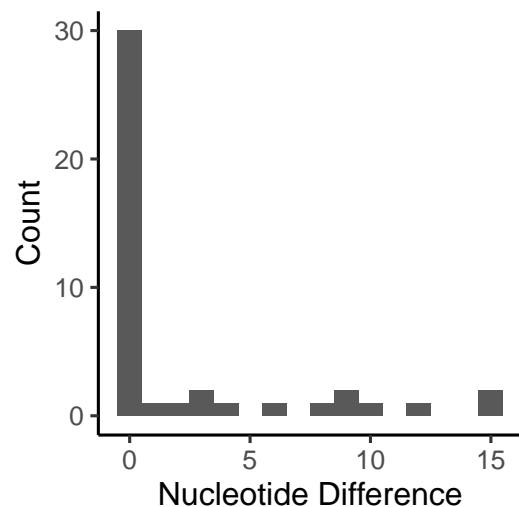
IGHV3-9*01

115 sequences assigned
89 (77.4%) exact matches, in which:
89 unique CDR3
6 unique J



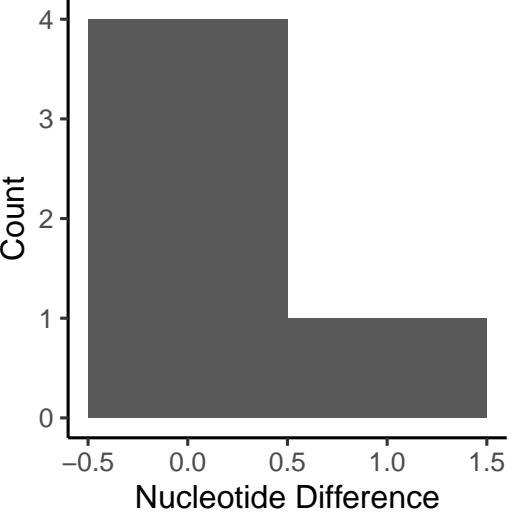
IGHV3-15*01

45 sequences assigned
30 (66.7%) exact matches, in which:
30 unique CDR3
5 unique J



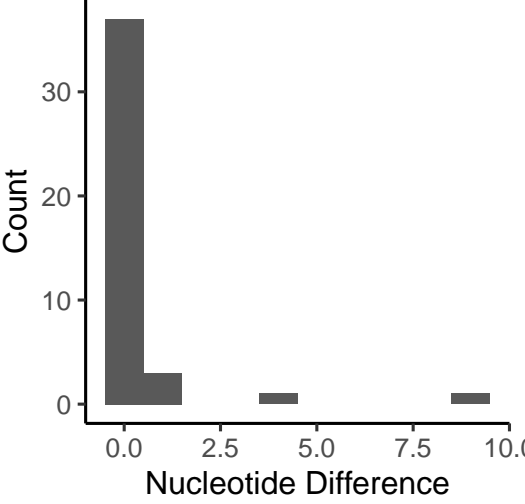
IGHV3-20*01

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



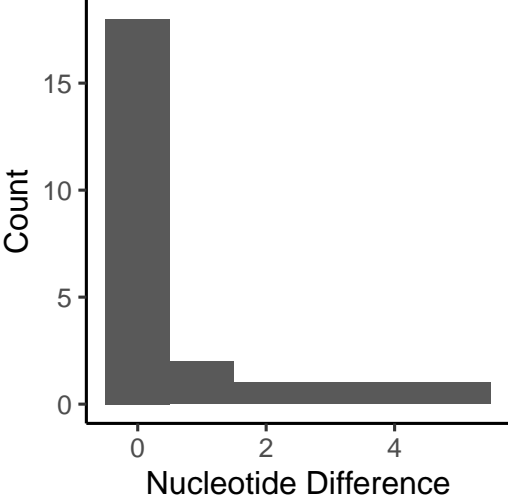
IGHV3-30*01

42 sequences assigned
37 (88.1%) exact matches, in which:
37 unique CDR3
5 unique J



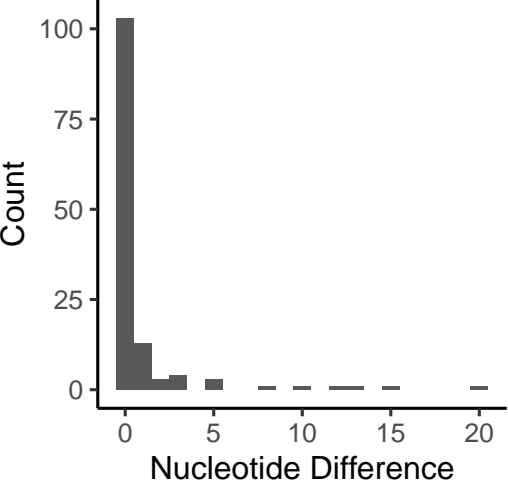
IGHV3-48*01

24 sequences assigned
18 (75%) exact matches, in which:
18 unique CDR3
5 unique J



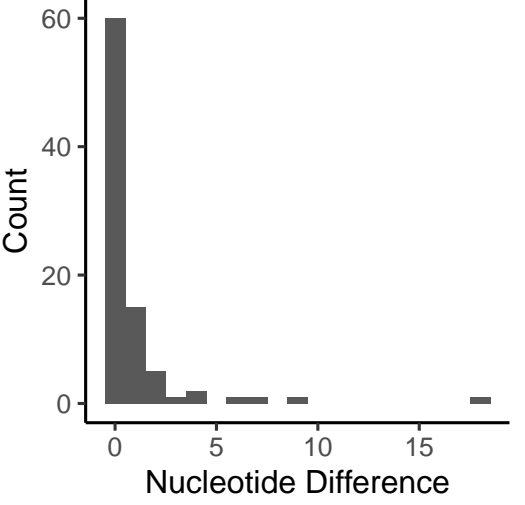
IGHV3-21*01

132 sequences assigned
103 (78%) exact matches, in which:
103 unique CDR3
6 unique J



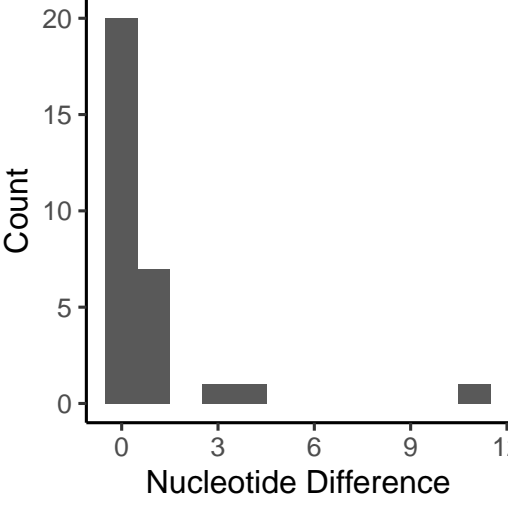
IGHV3-33*01

87 sequences assigned
60 (69%) exact matches, in which:
60 unique CDR3
6 unique J



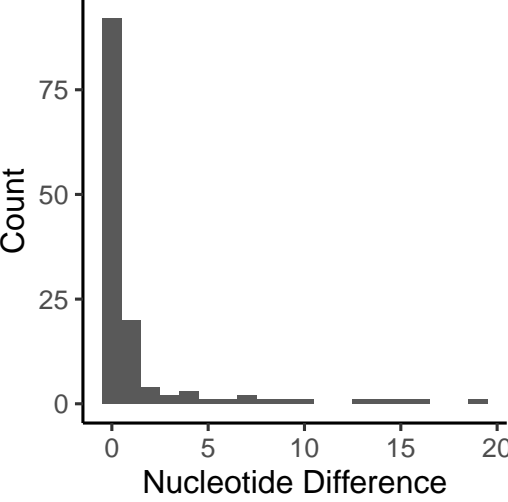
IGHV3-48*02

30 sequences assigned
20 (66.7%) exact matches, in which:
20 unique CDR3
5 unique J



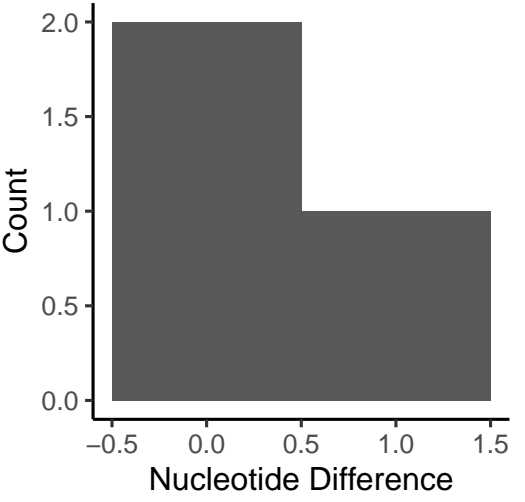
IGHV3-30-3*01

134 sequences assigned
92 (68.7%) exact matches, in which:
92 unique CDR3
5 unique J



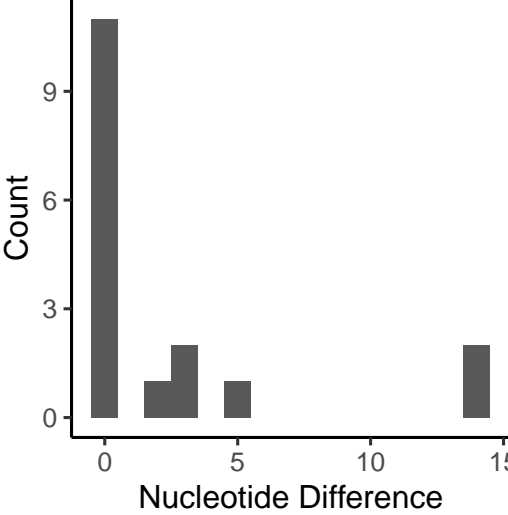
IGHV3-43*01

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



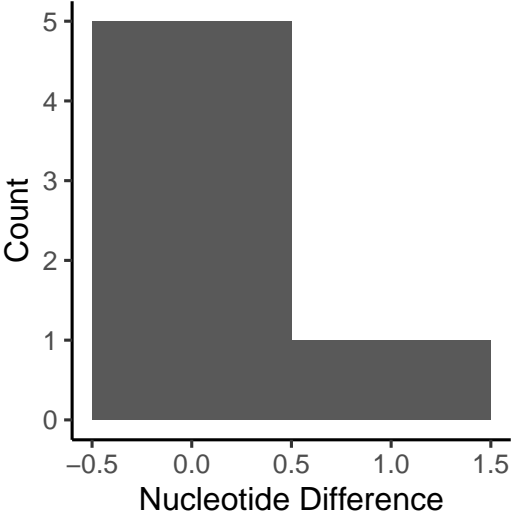
IGHV3-49*03

18 sequences assigned
11 (61.1%) exact matches, in which:
11 unique CDR3
3 unique J



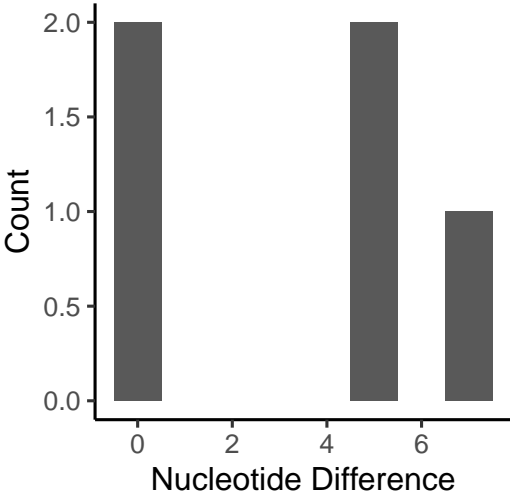
IGHV3-49*05

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



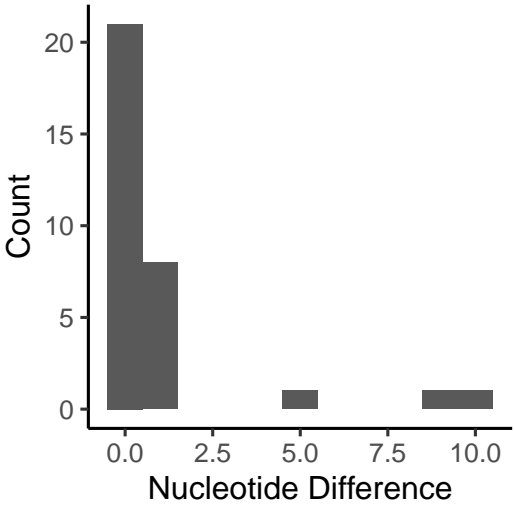
IGHV3-72*01

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



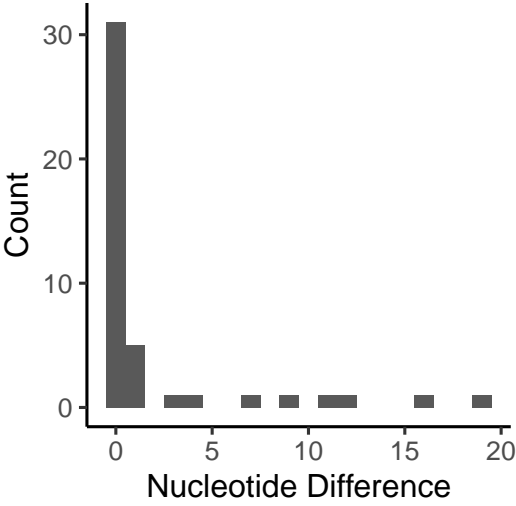
IGHV4-4*07

32 sequences assigned
21 (65.6%) exact matches, in which:
21 unique CDR3
5 unique J



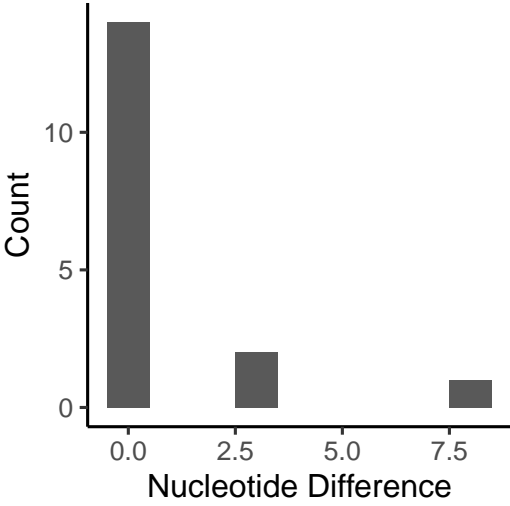
IGHV3-53*01

44 sequences assigned
31 (70.5%) exact matches, in which:
31 unique CDR3
6 unique J



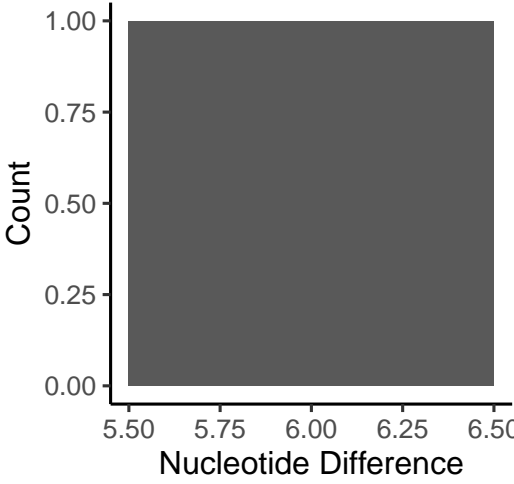
IGHV3-73*02

17 sequences assigned
14 (82.4%) exact matches, in which:
14 unique CDR3
4 unique J



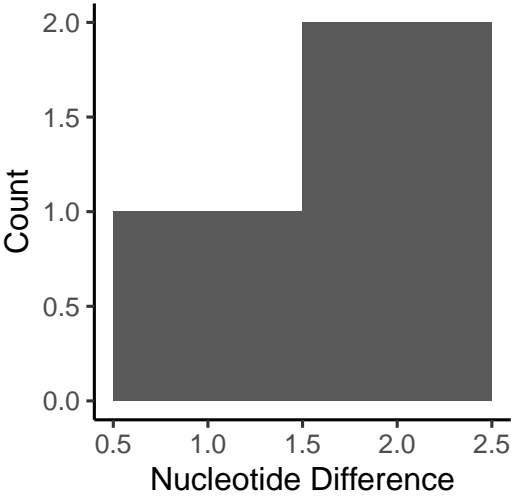
IGHV4-28*01

1 sequences assigned
No exact matches.



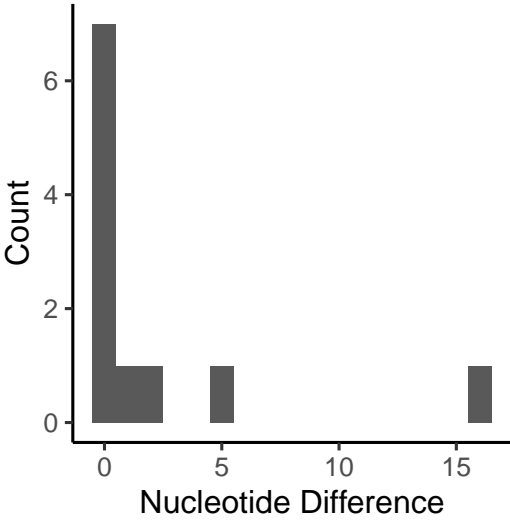
IGHV3-64*01

3 sequences assigned
No exact matches.



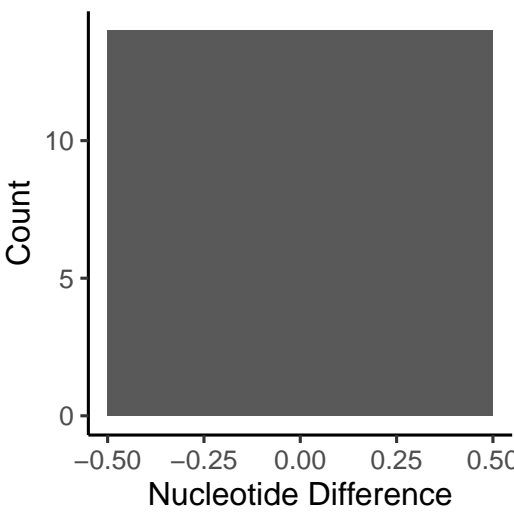
IGHV3-74*01

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



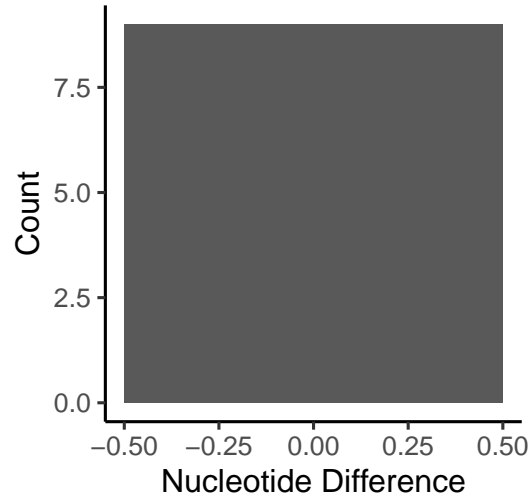
IGHV4-30-2*01

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



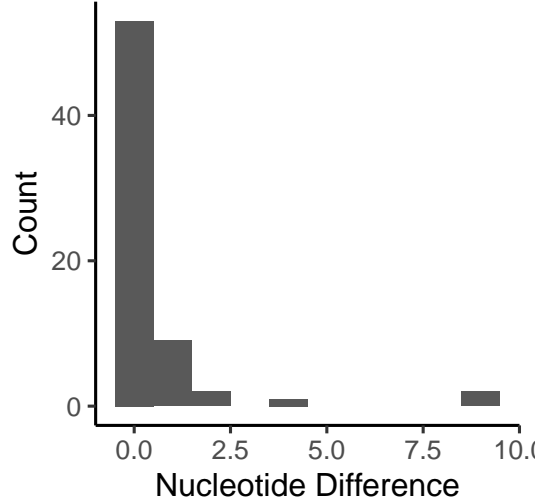
IGHV4-30-4*01

9 sequences assigned
9 (100%) exact matches, in which:
9 unique CDR3
5 unique J



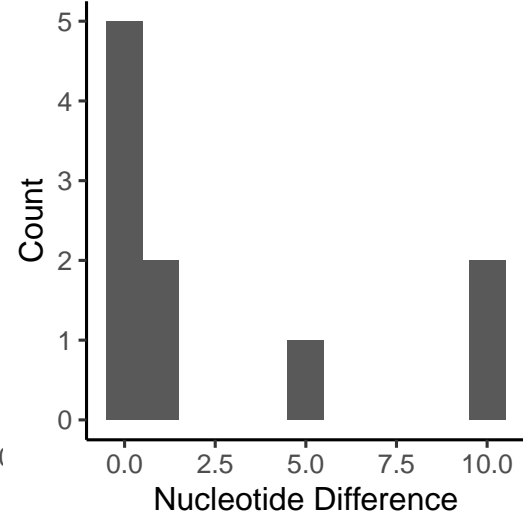
IGHV4-34*01

67 sequences assigned
53 (79.1%) exact matches, in which:
53 unique CDR3
6 unique J



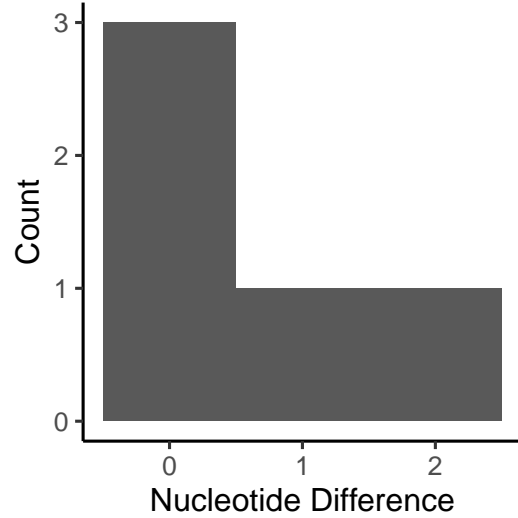
IGHV4-61*01

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



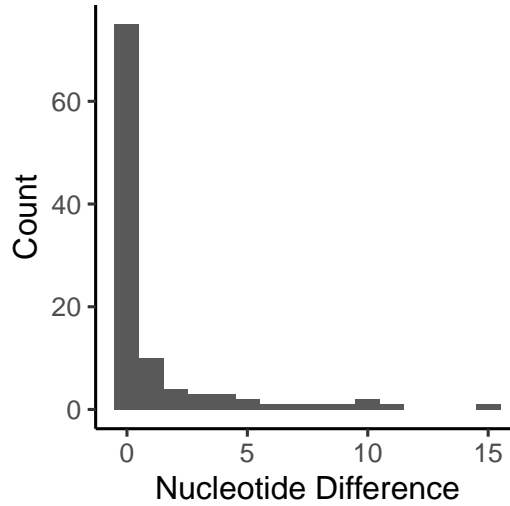
IGHV4-31*01

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



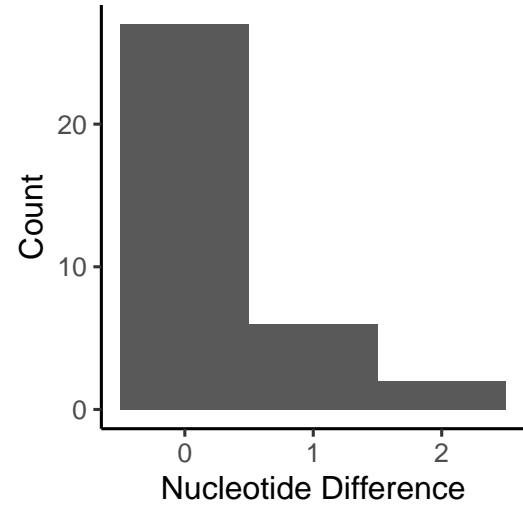
IGHV4-39*01

105 sequences assigned
75 (71.4%) exact matches, in which:
74 unique CDR3
5 unique J



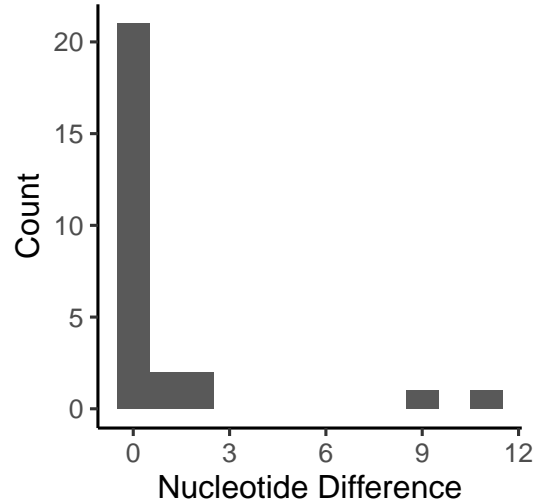
IGHV4-61*02

35 sequences assigned
27 (77.1%) exact matches, in which:
27 unique CDR3
6 unique J



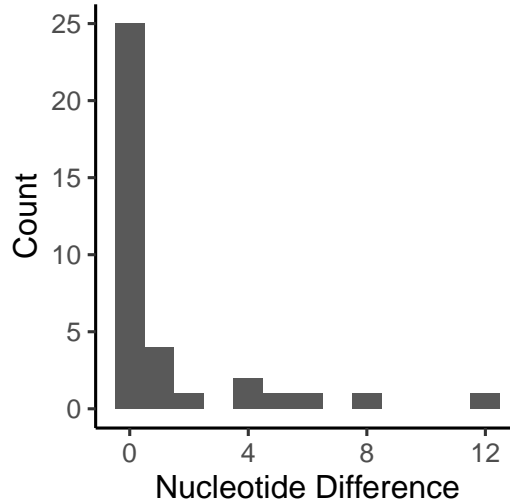
IGHV4-31*03

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



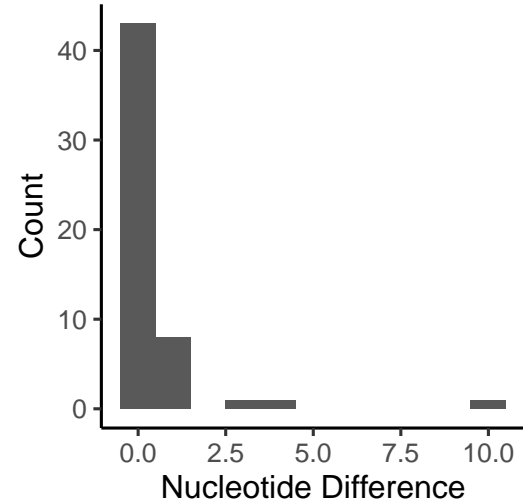
IGHV4-59*01

36 sequences assigned
25 (69.4%) exact matches, in which:
25 unique CDR3
6 unique J



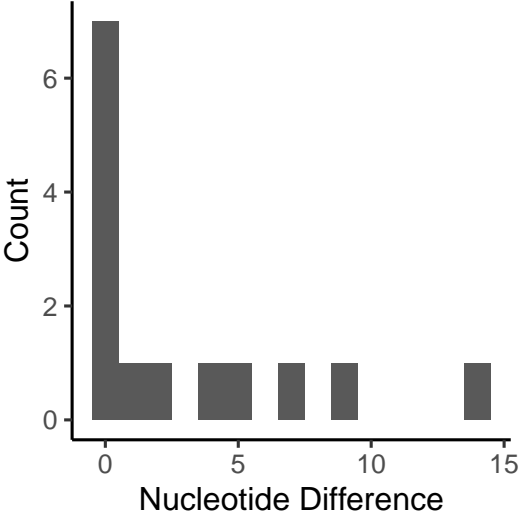
IGHV5-51*01

54 sequences assigned
43 (79.6%) exact matches, in which:
43 unique CDR3
6 unique J



IGHV6-1*01

14 sequences assigned
7 (50%) exact matches, in which:
7 unique CDR3
2 unique J





[illegible]