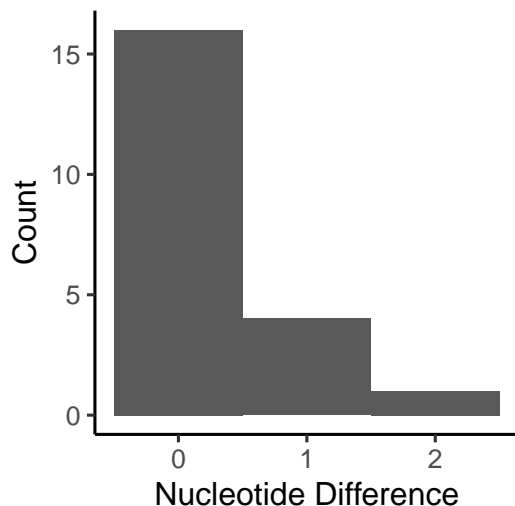


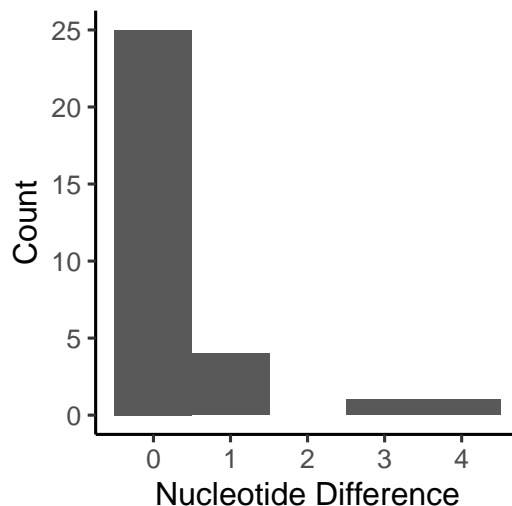
IGHV1-2*04

21 sequences assigned
16 (76.2%) exact matches, in which:
16 unique CDR3
4 unique J



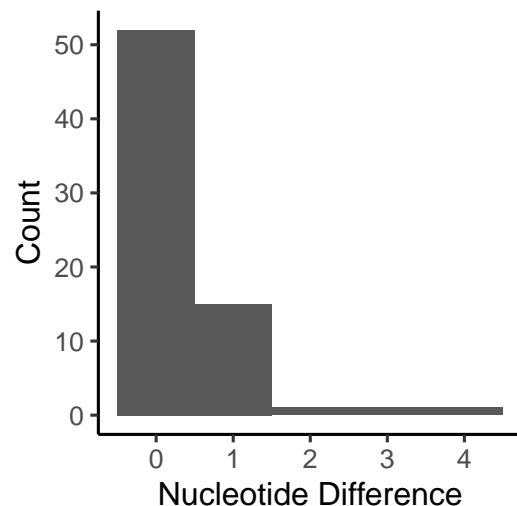
IGHV1-8*01

31 sequences assigned
25 (80.6%) exact matches, in which:
24 unique CDR3
6 unique J



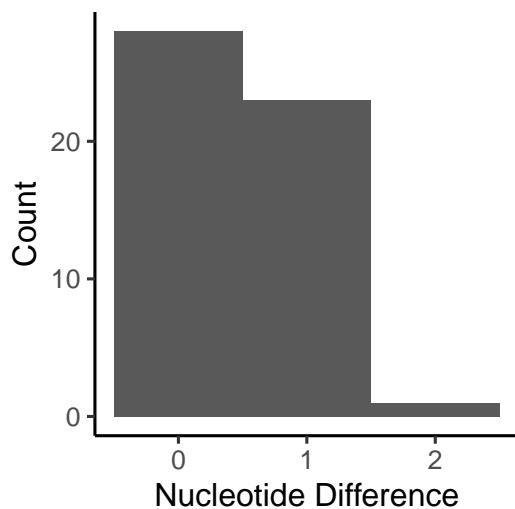
IGHV1-46*01

70 sequences assigned
52 (74.3%) exact matches, in which:
51 unique CDR3
5 unique J



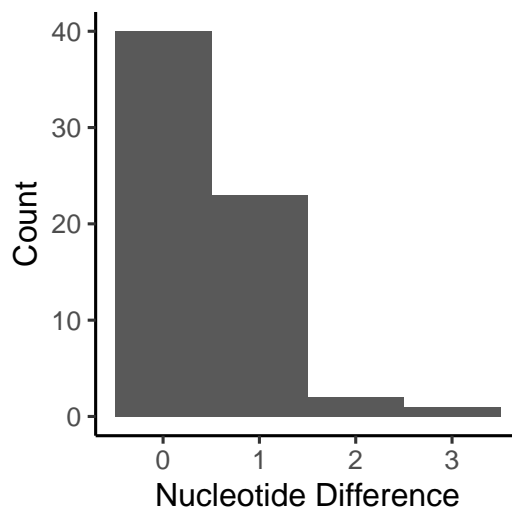
IGHV1-2*06

52 sequences assigned
28 (53.8%) exact matches, in which:
28 unique CDR3
4 unique J



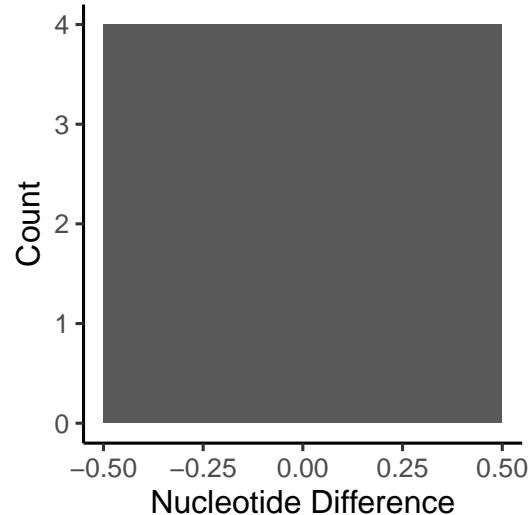
IGHV1-18*01

66 sequences assigned
40 (60.6%) exact matches, in which:
40 unique CDR3
5 unique J



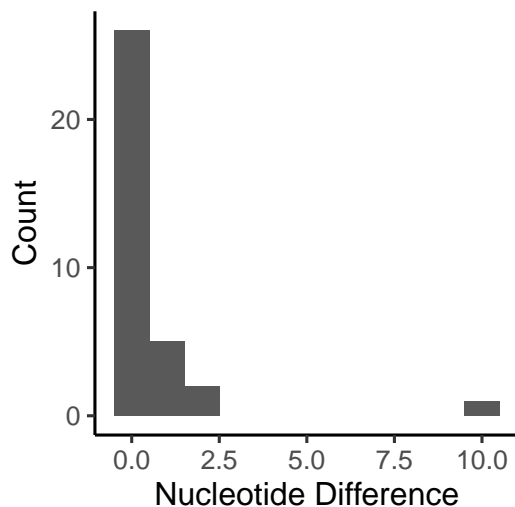
IGHV1-58*01

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



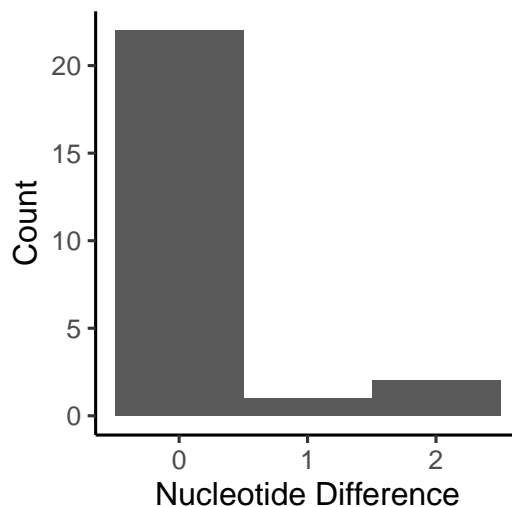
IGHV1-3*01

34 sequences assigned
26 (76.5%) exact matches, in which:
25 unique CDR3
4 unique J



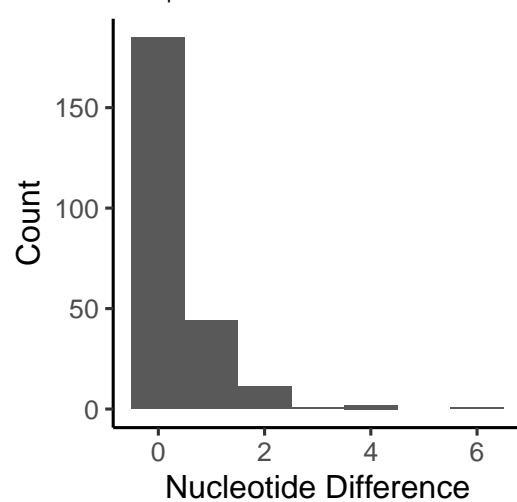
IGHV1-24*01

25 sequences assigned
22 (88%) exact matches, in which:
21 unique CDR3
4 unique J



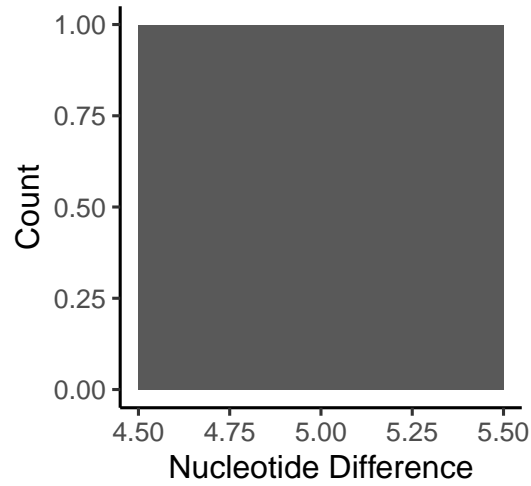
IGHV1-69*01

244 sequences assigned
185 (75.8%) exact matches, in which:
182 unique CDR3
6 unique J



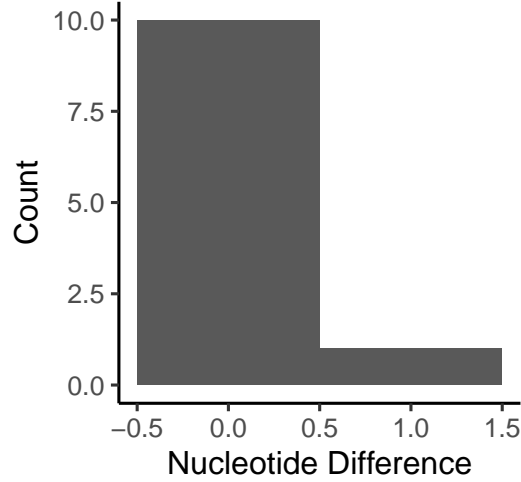
IGHV1–NL1*01

1 sequences assigned
No exact matches.



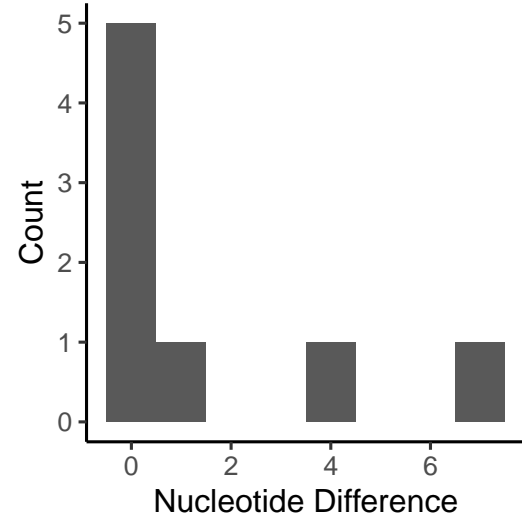
IGHV2–26*01

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



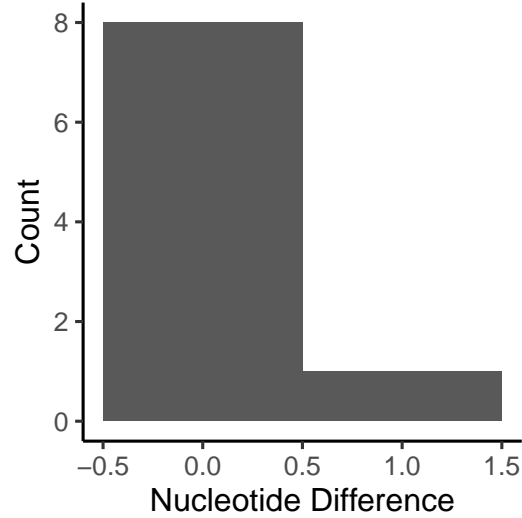
IGHV3–7*05

8 sequences assigned
5 (62.5%) exact matches, in which:
4 unique CDR3
2 unique J



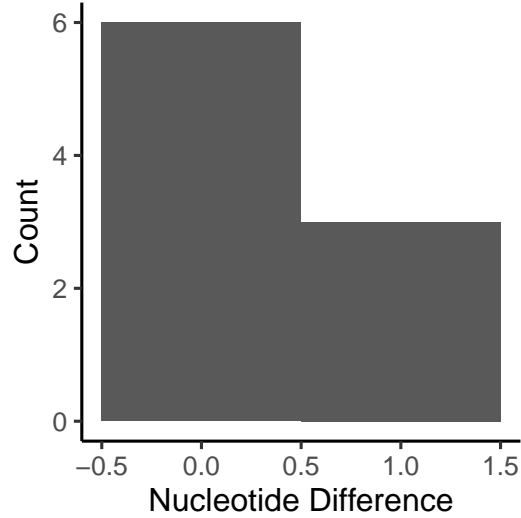
IGHV2–5*01

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



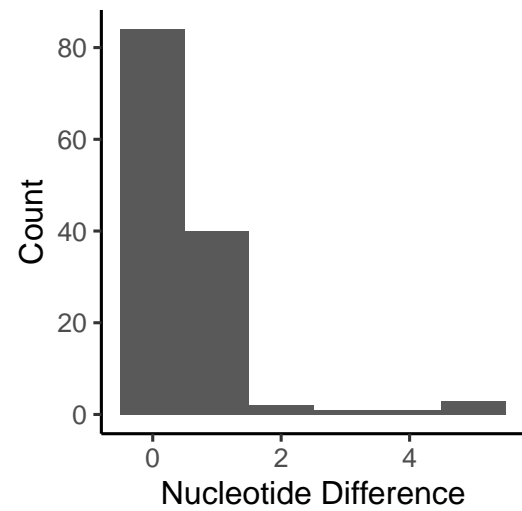
IGHV2–70*01

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



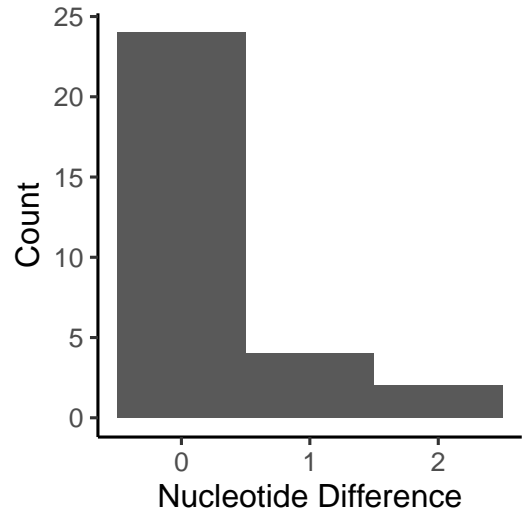
IGHV3–9*01

131 sequences assigned
84 (64.1%) exact matches, in which:
83 unique CDR3
6 unique J



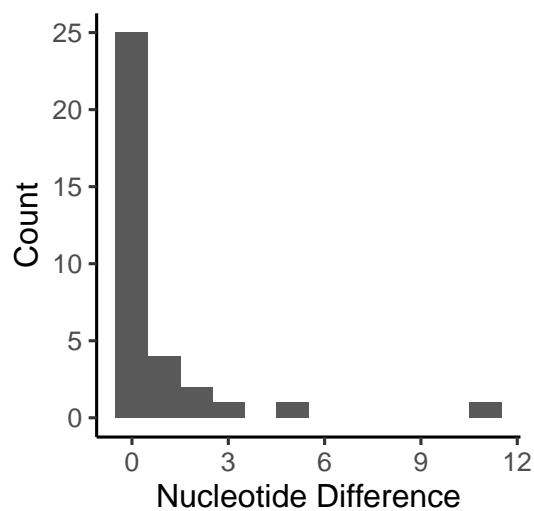
IGHV2–5*02

30 sequences assigned
24 (80%) exact matches, in which:
24 unique CDR3
4 unique J



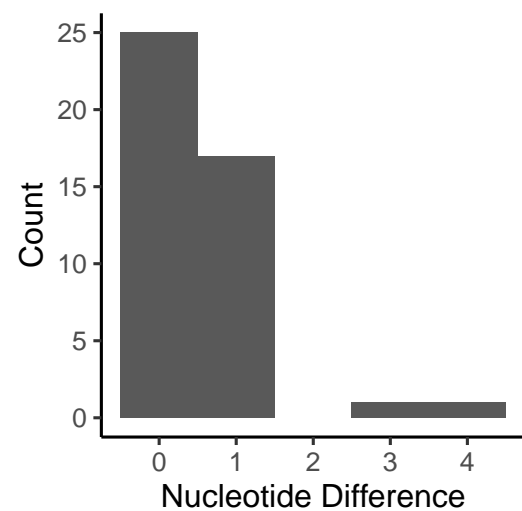
IGHV3–7*01

35 sequences assigned
25 (71.4%) exact matches, in which:
24 unique CDR3
5 unique J



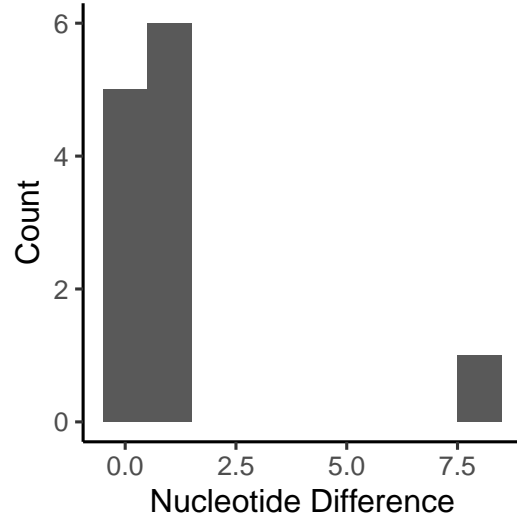
IGHV3–11*01

44 sequences assigned
25 (56.8%) exact matches, in which:
24 unique CDR3
5 unique J



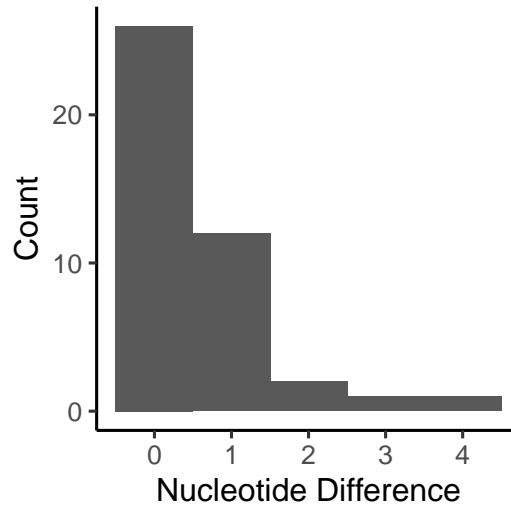
IGHV3-11*06

12 sequences assigned
5 (41.7%) exact matches, in which:
5 unique CDR3
4 unique J



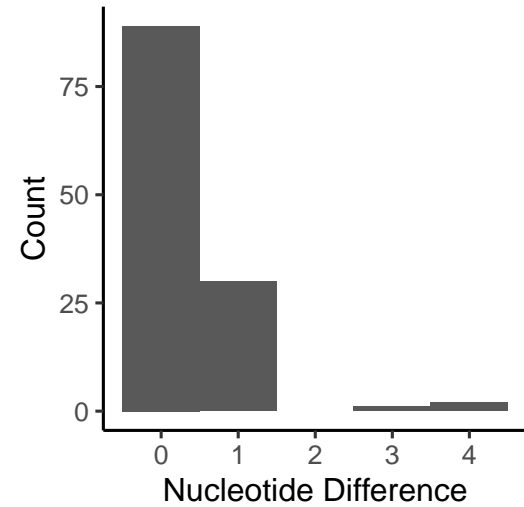
IGHV3-15*07

42 sequences assigned
26 (61.9%) exact matches, in which:
25 unique CDR3
5 unique J



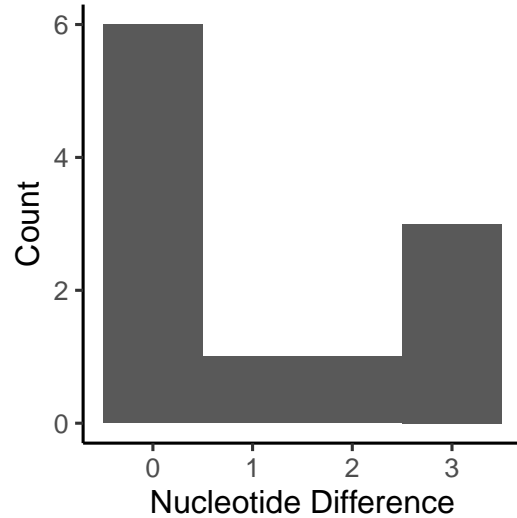
IGHV3-21*01

122 sequences assigned
89 (73%) exact matches, in which:
89 unique CDR3
6 unique J



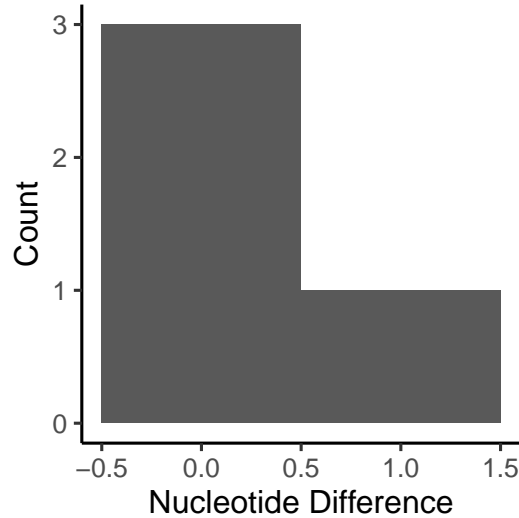
IGHV3-13*01

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



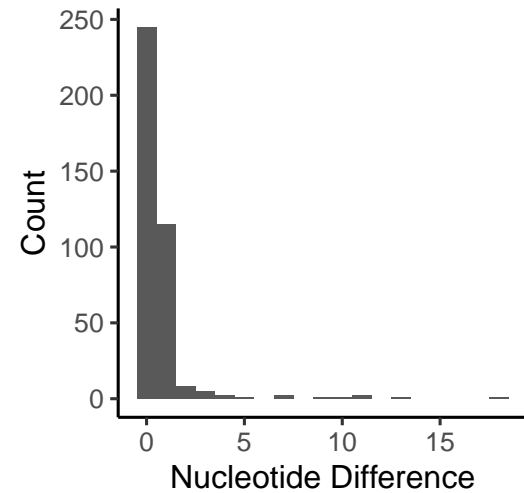
IGHV3-20*01

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



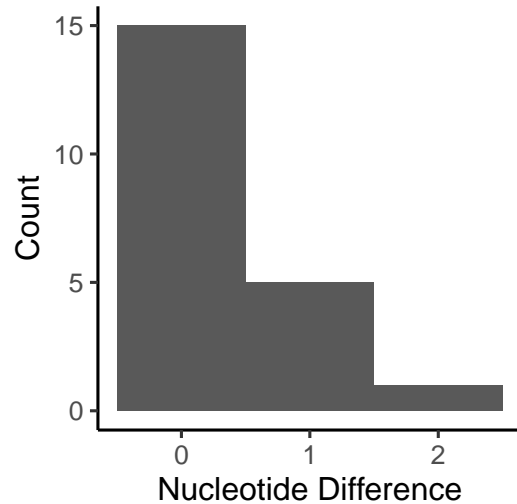
IGHV3-23*01

384 sequences assigned
245 (63.8%) exact matches, in which:
242 unique CDR3
6 unique J



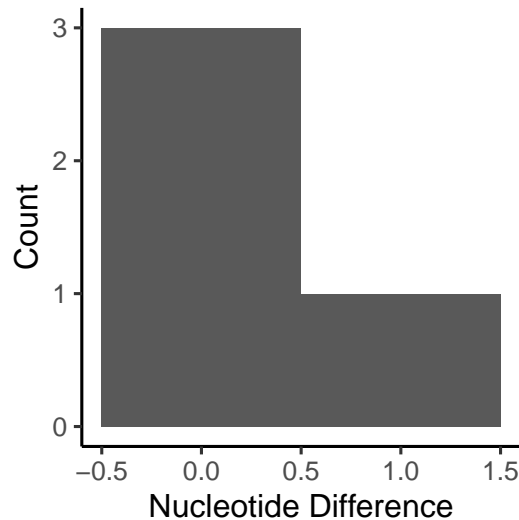
IGHV3-15*01

21 sequences assigned
15 (71.4%) exact matches, in which:
15 unique CDR3
3 unique J



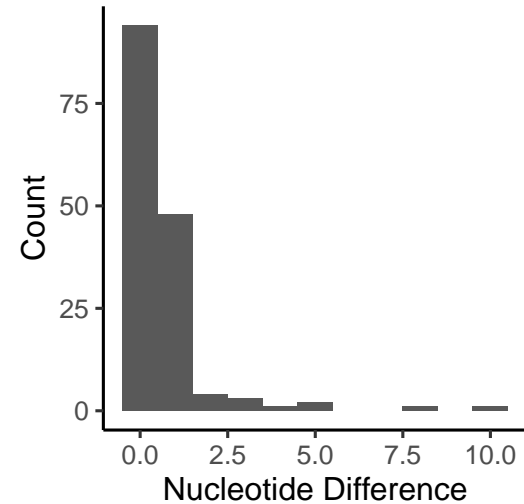
IGHV3-20*04

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



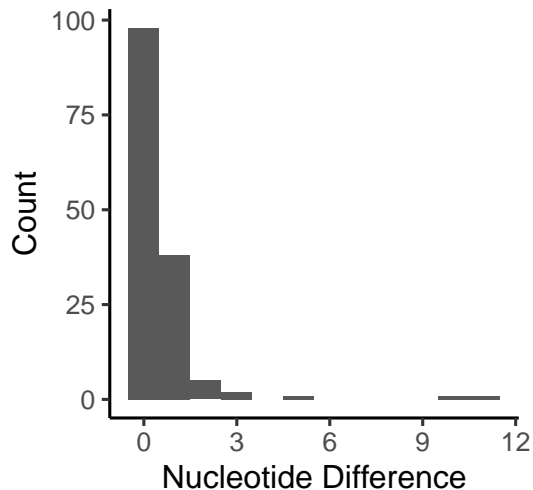
IGHV3-30-3*01

154 sequences assigned
94 (61%) exact matches, in which:
91 unique CDR3
5 unique J



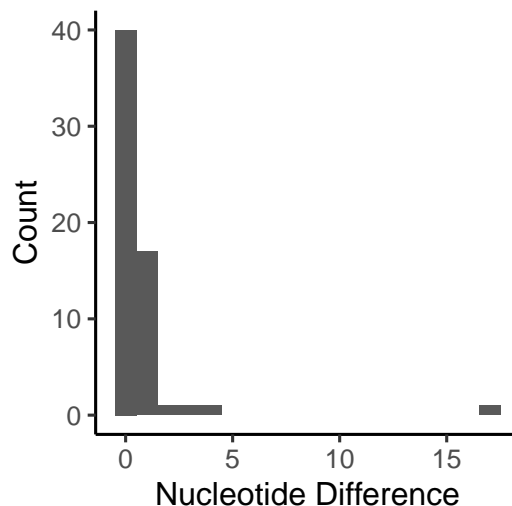
IGHV3–30*18

147 sequences assigned
98 (66.7%) exact matches, in which:
97 unique CDR3
5 unique J



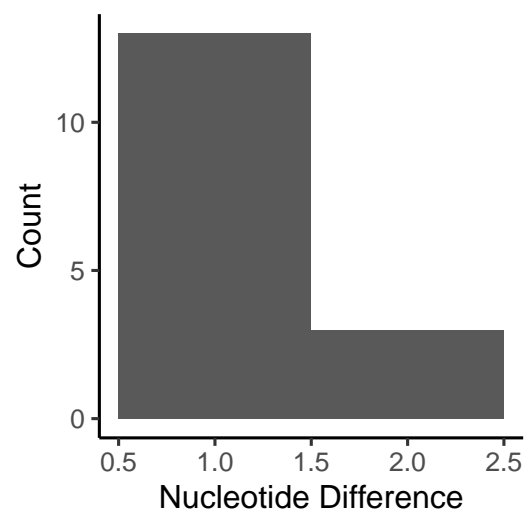
IGHV3–48*02

61 sequences assigned
40 (65.6%) exact matches, in which:
40 unique CDR3
5 unique J



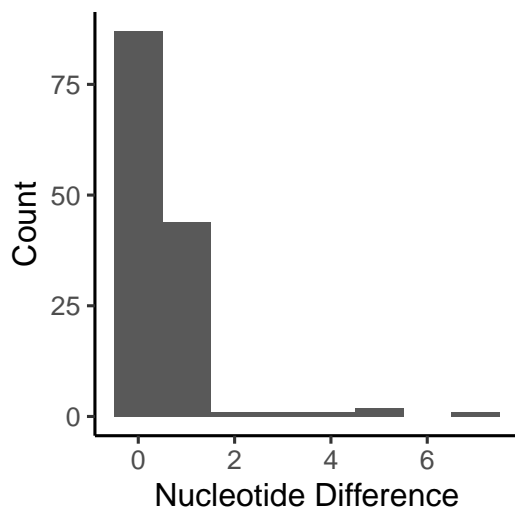
IGHV3–53*02

16 sequences assigned
No exact matches.



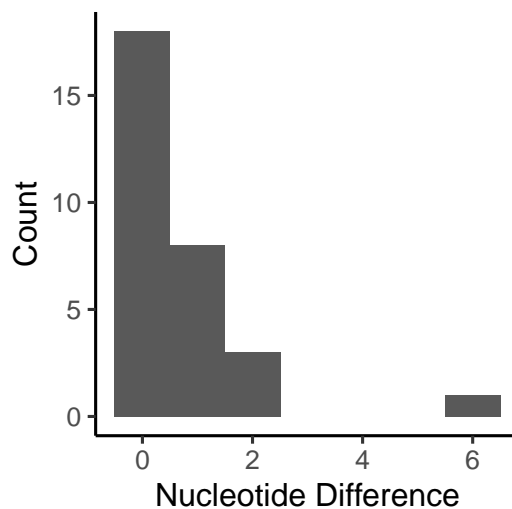
IGHV3–33*01

137 sequences assigned
87 (63.5%) exact matches, in which:
86 unique CDR3
6 unique J



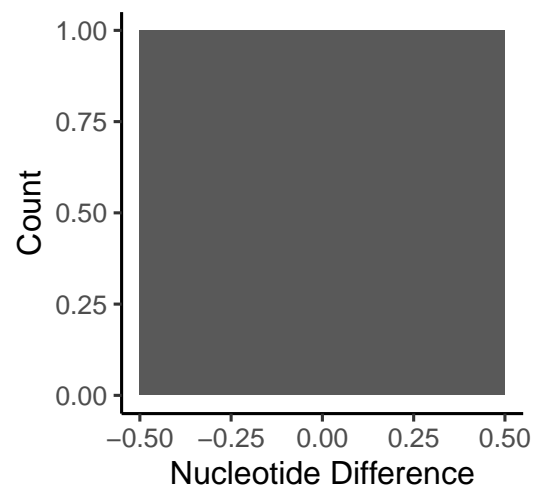
IGHV3–49*05

30 sequences assigned
18 (60%) exact matches, in which:
18 unique CDR3
3 unique J



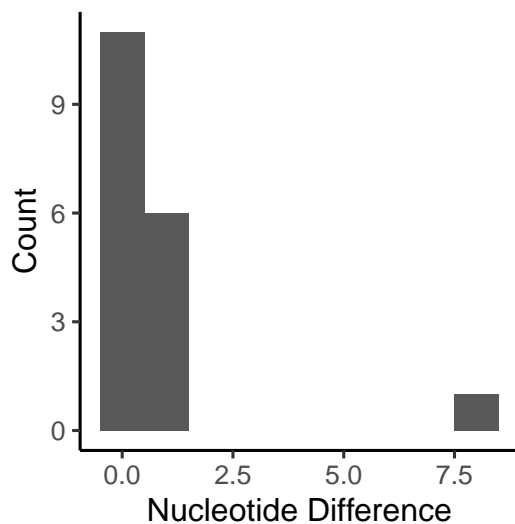
IGHV3–64*01

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



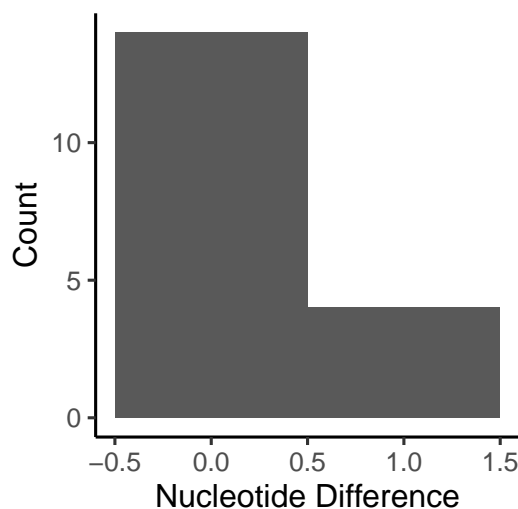
IGHV3–43*01

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



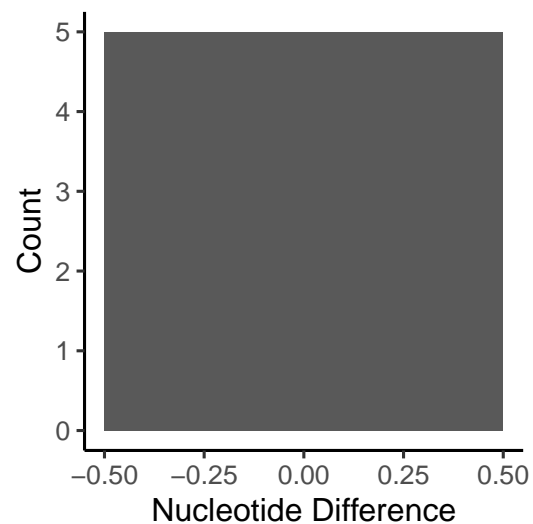
IGHV3–53*01

18 sequences assigned
14 (77.8%) exact matches, in which:
14 unique CDR3
3 unique J



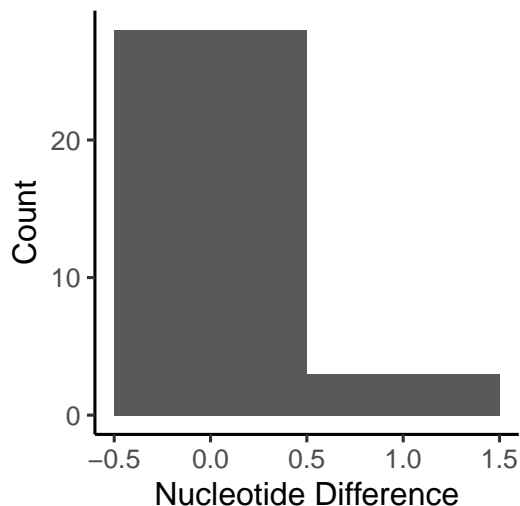
IGHV3–72*01

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



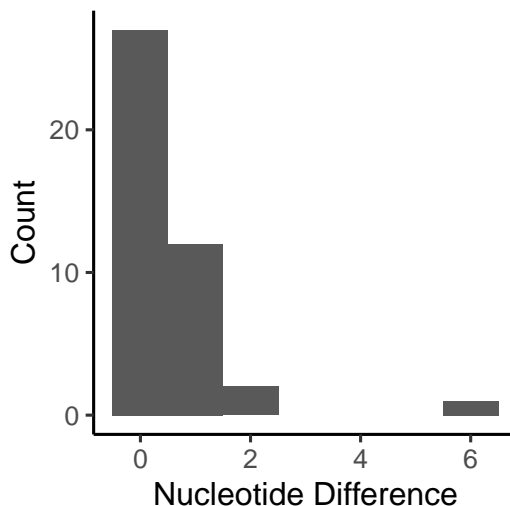
IGHV3-73*02

31 sequences assigned
28 (90.3%) exact matches, in which:
27 unique CDR3
4 unique J



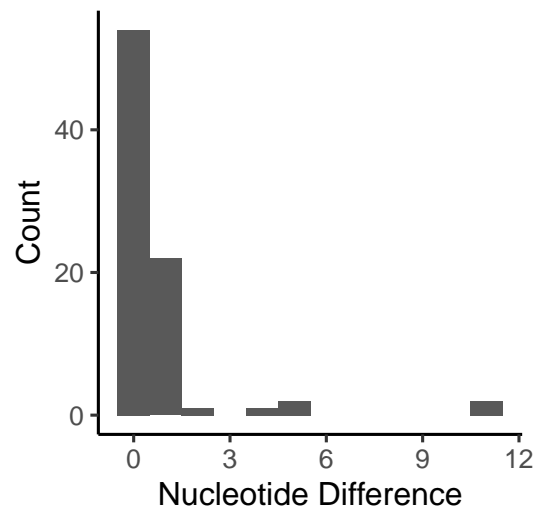
IGHV4-4*02

42 sequences assigned
27 (64.3%) exact matches, in which:
27 unique CDR3
5 unique J



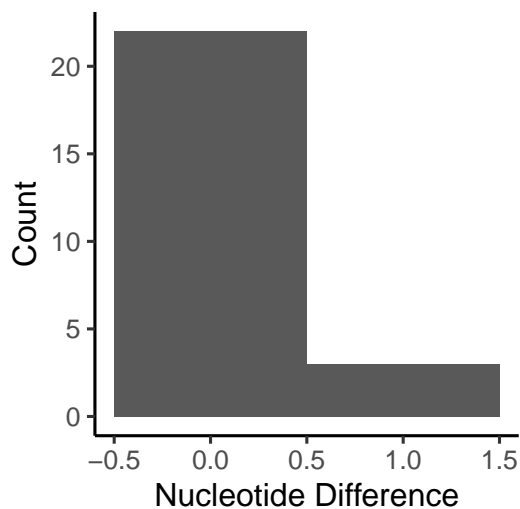
IGHV4-31*03

82 sequences assigned
54 (65.9%) exact matches, in which:
54 unique CDR3
5 unique J



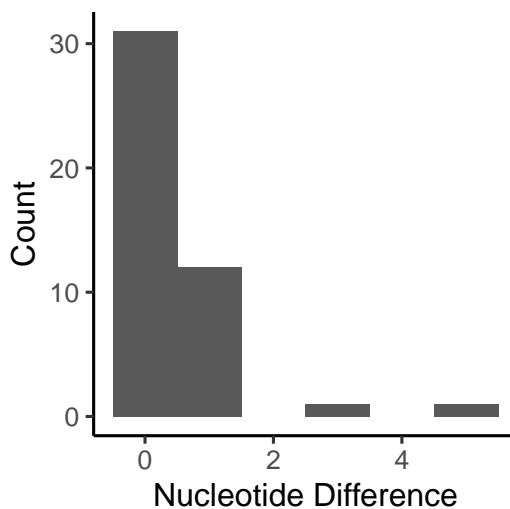
IGHV3-74*01

25 sequences assigned
22 (88%) exact matches, in which:
22 unique CDR3
3 unique J



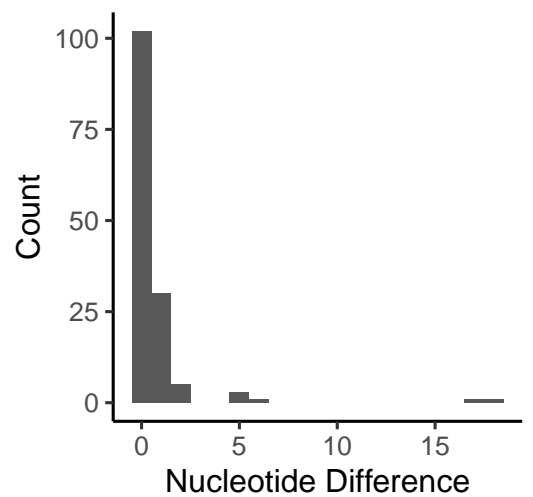
IGHV4-30-4*01

45 sequences assigned
31 (68.9%) exact matches, in which:
31 unique CDR3
5 unique J



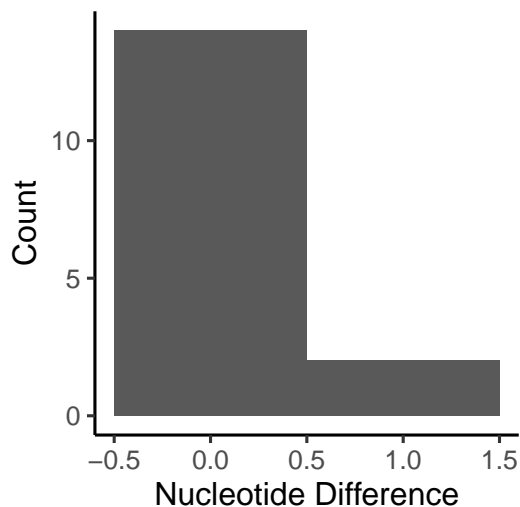
IGHV4-34*01

150 sequences assigned
102 (68%) exact matches, in which:
100 unique CDR3
6 unique J



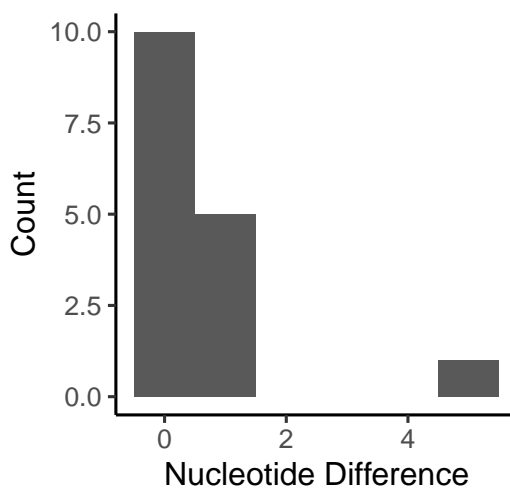
IGHV3-64D*08

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



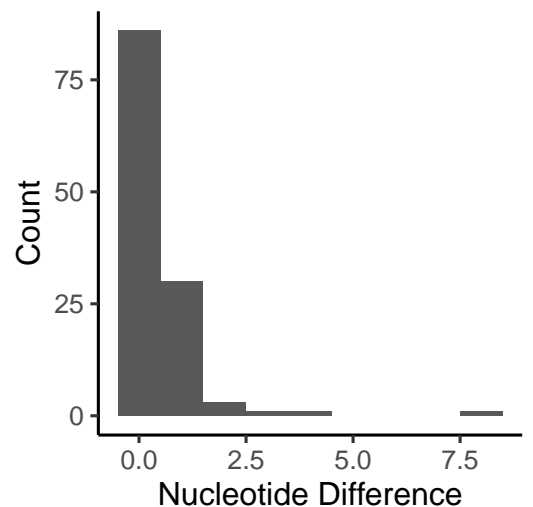
IGHV4-30-2*01

16 sequences assigned
10 (62.5%) exact matches, in which:
10 unique CDR3
4 unique J



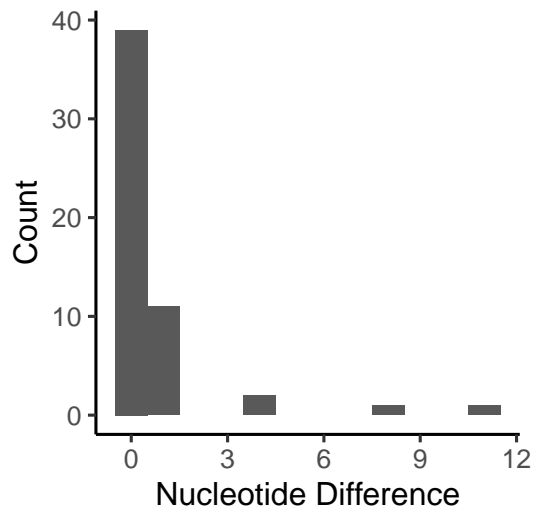
IGHV4-39*01

122 sequences assigned
86 (70.5%) exact matches, in which:
85 unique CDR3
6 unique J



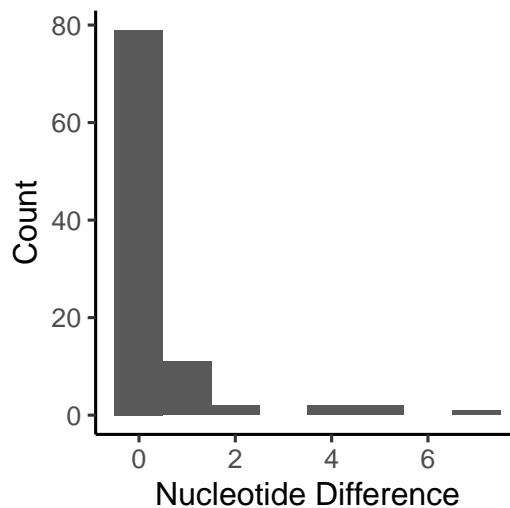
IGHV4-59*01

54 sequences assigned
39 (72.2%) exact matches, in which:
37 unique CDR3
4 unique J



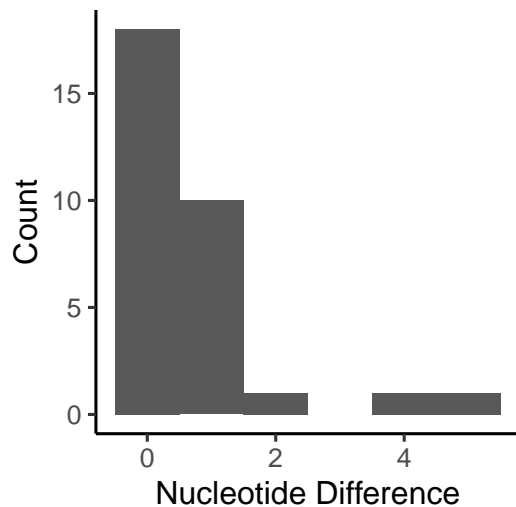
IGHV5-51*01

97 sequences assigned
79 (81.4%) exact matches, in which:
77 unique CDR3
5 unique J



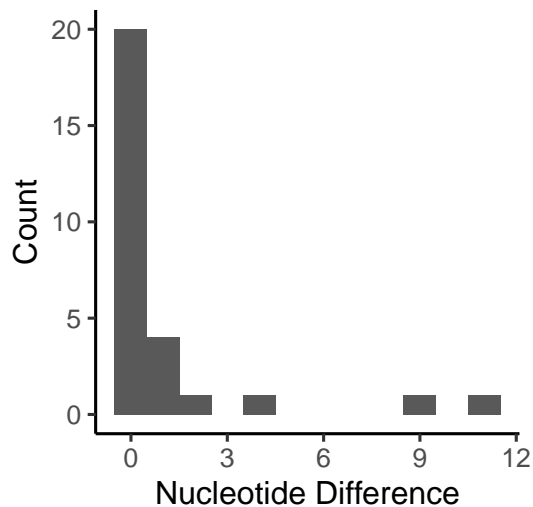
IGHV4-61*01

31 sequences assigned
18 (58.1%) exact matches, in which:
18 unique CDR3
5 unique J



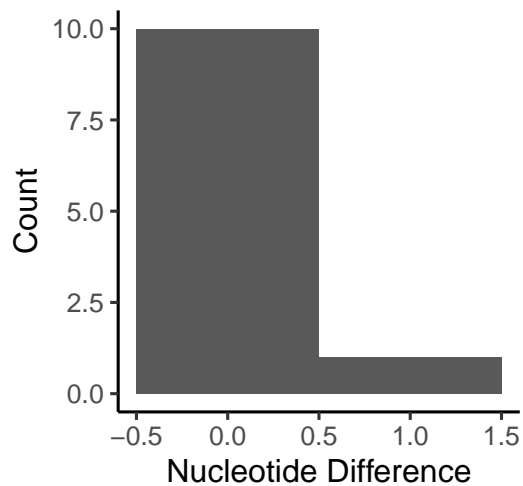
IGHV6-1*01

28 sequences assigned
20 (71.4%) exact matches, in which:
20 unique CDR3
4 unique J



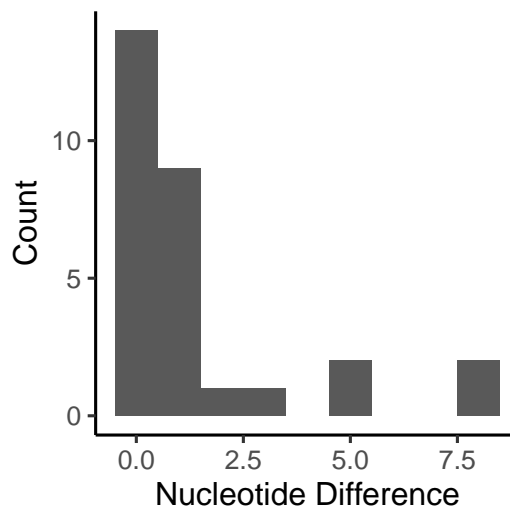
IGHV5-10-1*03

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



IGHV7-4-1*02

29 sequences assigned
14 (48.3%) exact matches, in which:
13 unique CDR3
3 unique J





Warning – no inferred sequences found.