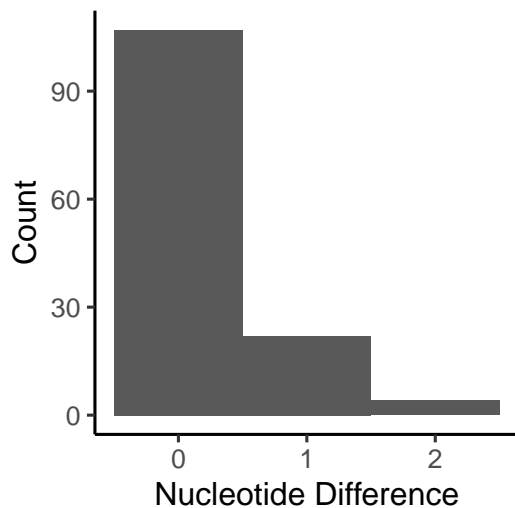


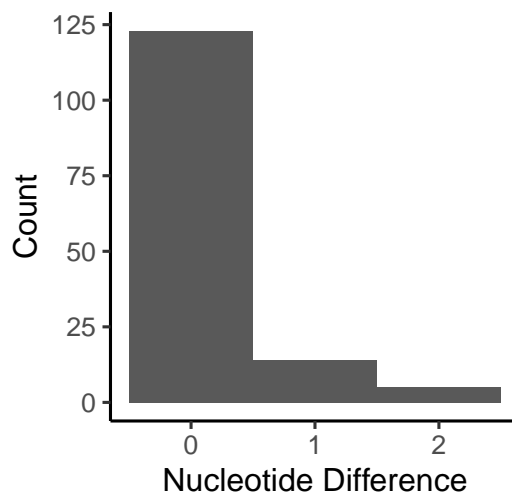
IGHV1-2*02

133 sequences assigned
107 (80.5%) exact matches, in which:
106 unique CDR3
6 unique J



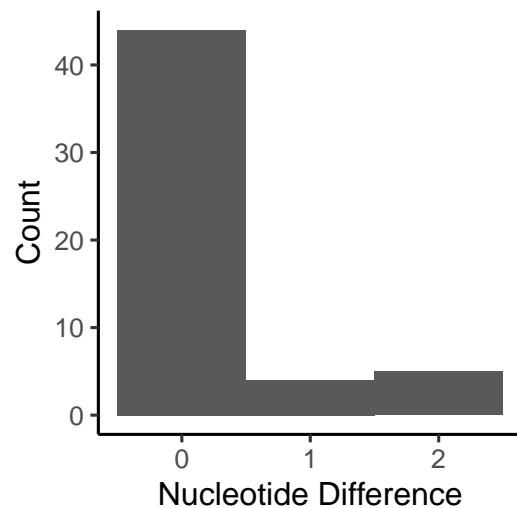
IGHV1-8*01

142 sequences assigned
123 (86.6%) exact matches, in which:
123 unique CDR3
5 unique J



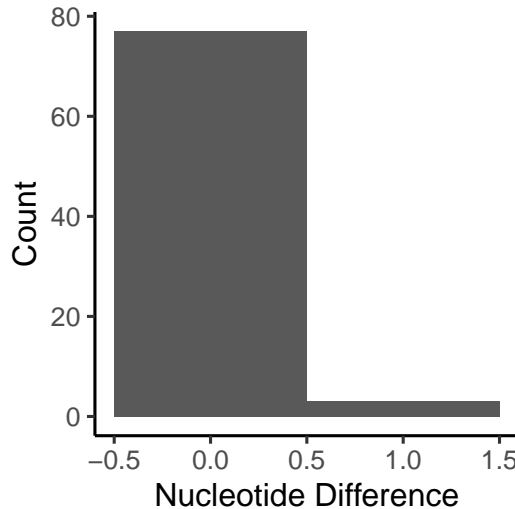
IGHV1-46*01

53 sequences assigned
44 (83%) exact matches, in which:
44 unique CDR3
4 unique J



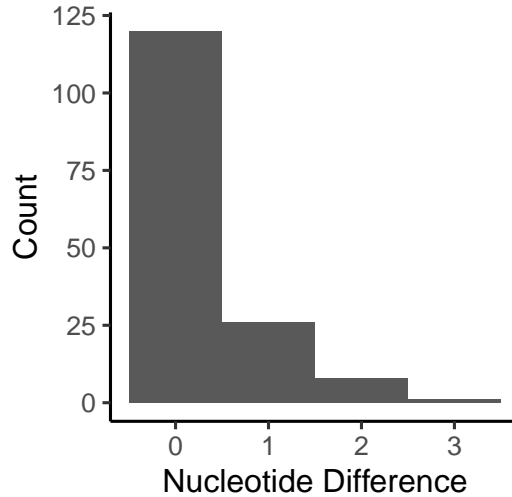
IGHV1-2*06

80 sequences assigned
77 (96.2%) exact matches, in which:
77 unique CDR3
6 unique J



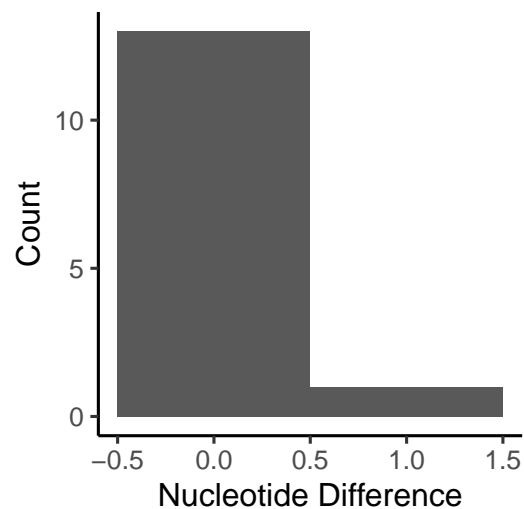
IGHV1-18*01

155 sequences assigned
120 (77.4%) exact matches, in which:
120 unique CDR3
6 unique J



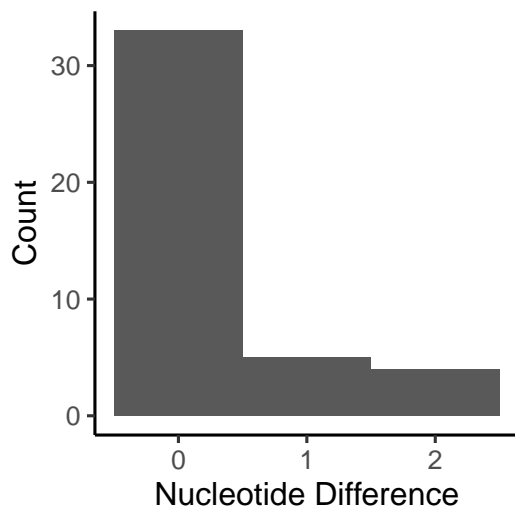
IGHV1-58*02

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



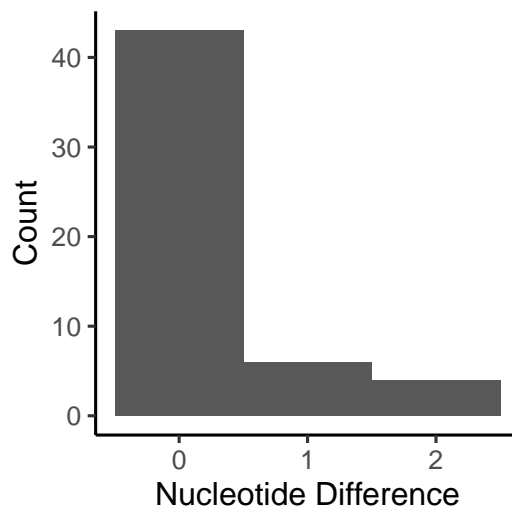
IGHV1-3*01_05

42 sequences assigned
33 (78.6%) exact matches, in which:
33 unique CDR3
5 unique J



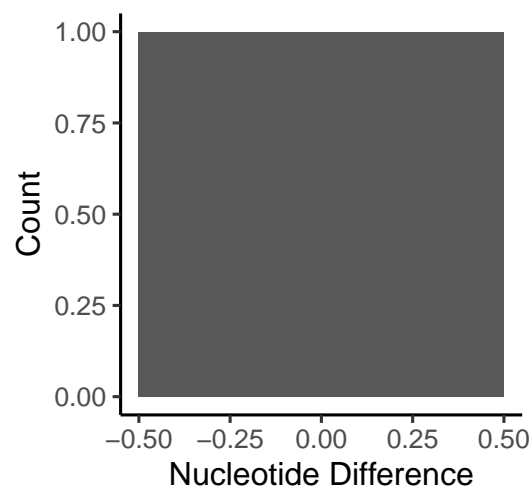
IGHV1-24*01

53 sequences assigned
43 (81.1%) exact matches, in which:
43 unique CDR3
5 unique J



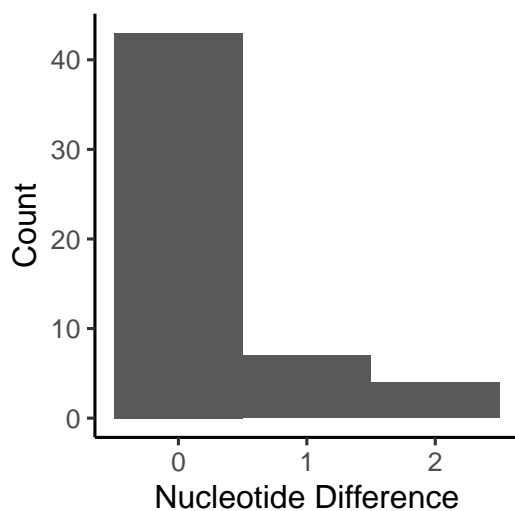
IGHV1-69-2*01

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



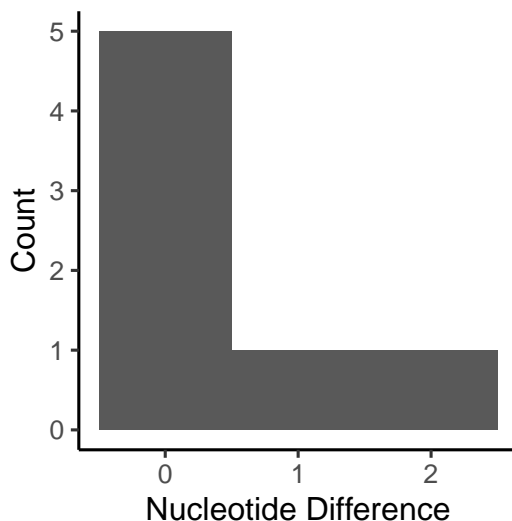
IGHV1-69*01_12_13

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



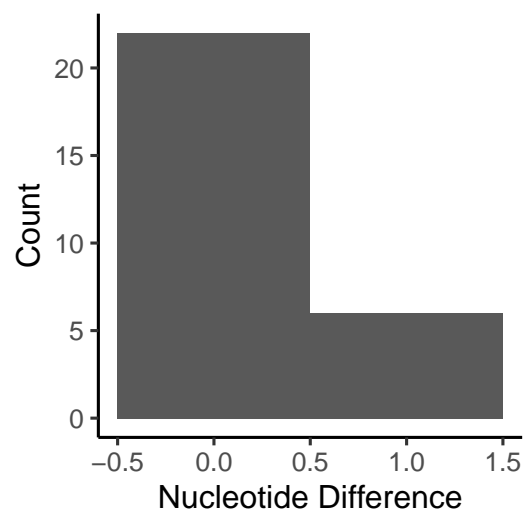
IGHV2-26*01

7 sequences assigned
5 (71.4%) exact matches, in which:
5 unique CDR3
3 unique J



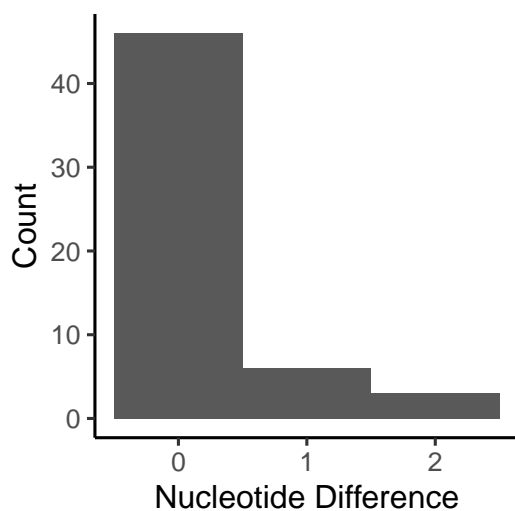
IGHV3-9*01

28 sequences assigned
22 (78.6%) exact matches, in which:
22 unique CDR3
5 unique J



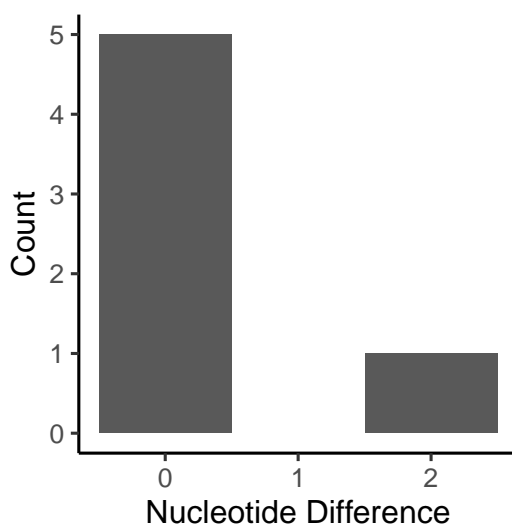
IGHV1-69*08_C191T

55 sequences assigned
46 (83.6%) exact matches, in which:
46 unique CDR3
6 unique J



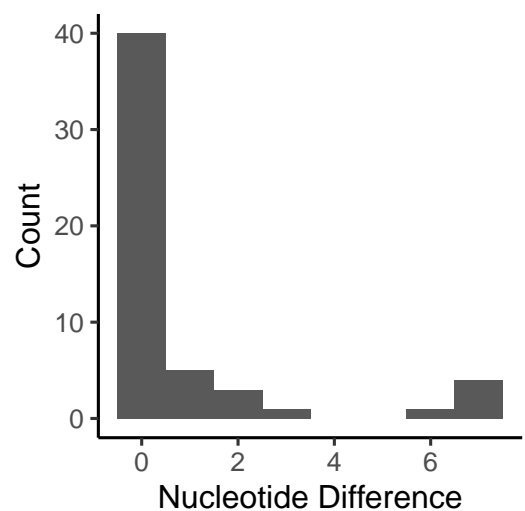
IGHV2-70*01

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



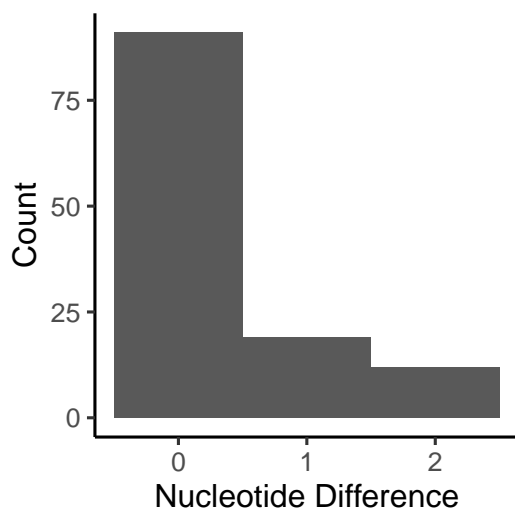
IGHV3-11*01

54 sequences assigned
40 (74.1%) exact matches, in which:
40 unique CDR3
5 unique J



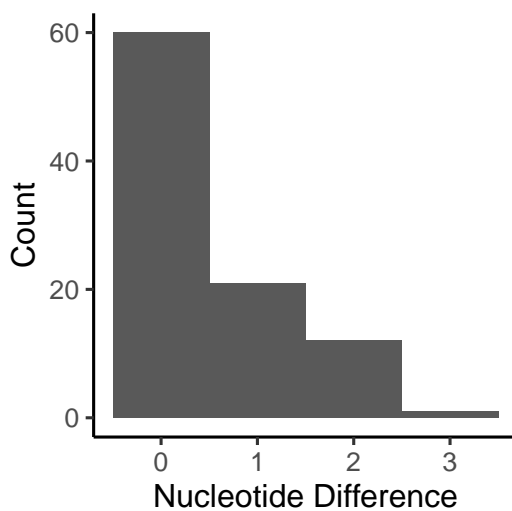
IGHV2-5*02

122 sequences assigned
91 (74.6%) exact matches, in which:
91 unique CDR3
5 unique J



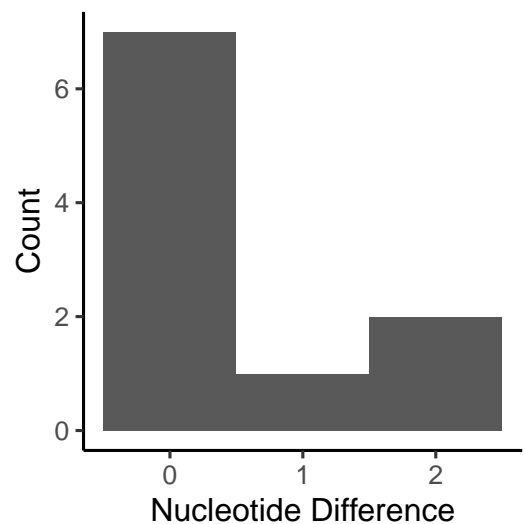
IGHV3-7*01

94 sequences assigned
60 (63.8%) exact matches, in which:
60 unique CDR3
5 unique J



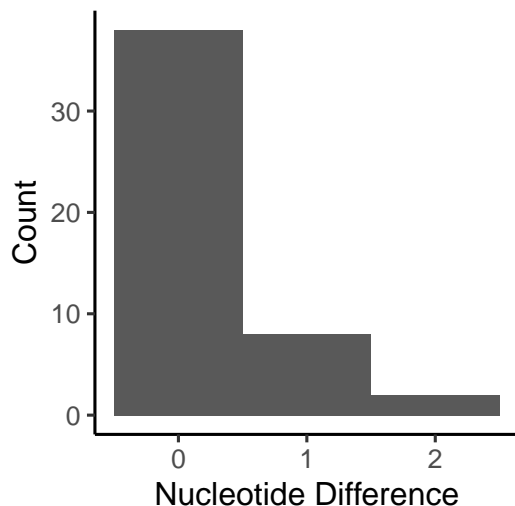
IGHV3-13*01

10 sequences assigned
7 (70%) exact matches, in which:
7 unique CDR3
3 unique J



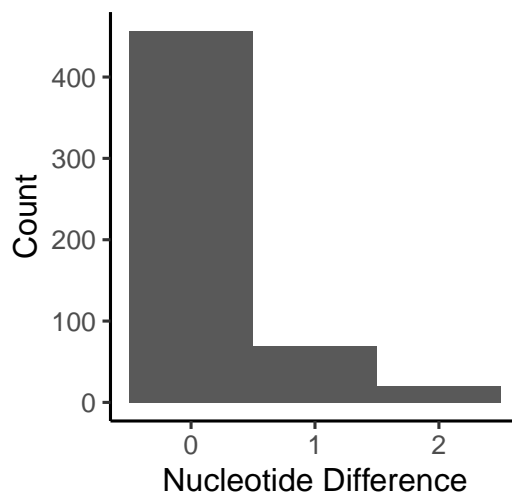
IGHV3-15*01_02

48 sequences assigned
38 (79.2%) exact matches, in which:
38 unique CDR3
4 unique J



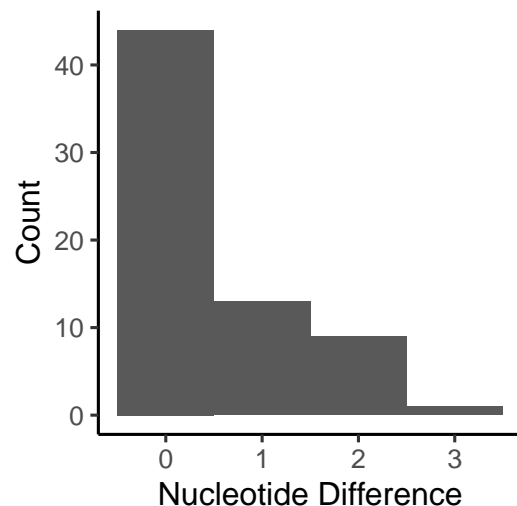
IGHV3-23*01_04

546 sequences assigned
457 (83.7%) exact matches, in which:
457 unique CDR3
6 unique J



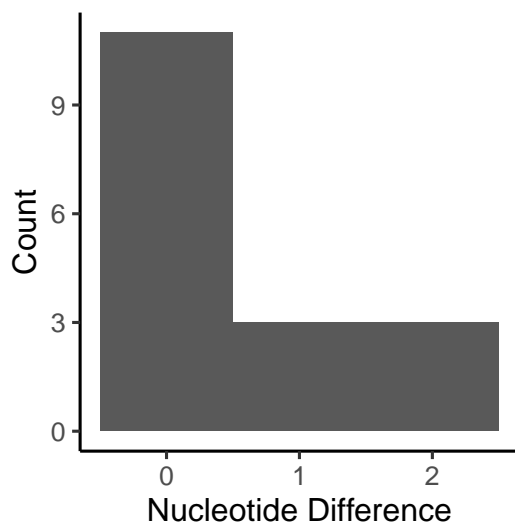
IGHV3-33*01

67 sequences assigned
44 (65.7%) exact matches, in which:
44 unique CDR3
6 unique J



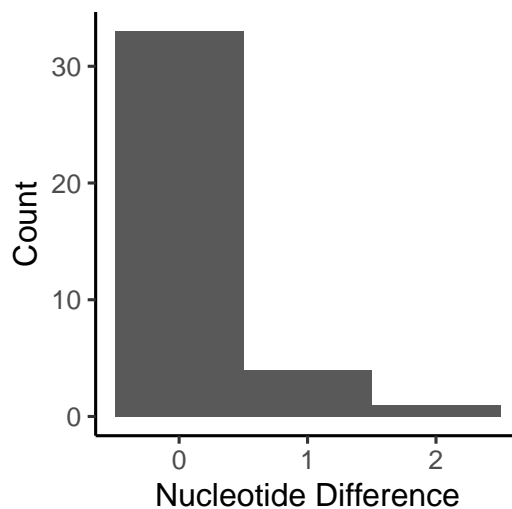
IGHV3-20*01_02

17 sequences assigned
11 (64.7%) exact matches, in which:
11 unique CDR3
3 unique J



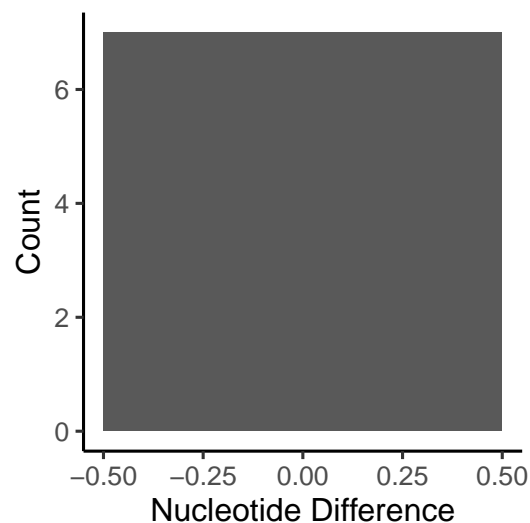
IGHV3-30-3*01

38 sequences assigned
33 (86.8%) exact matches, in which:
33 unique CDR3
4 unique J



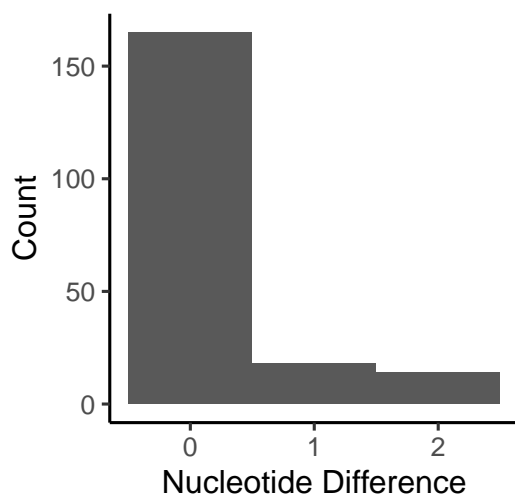
IGHV3-43*01

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



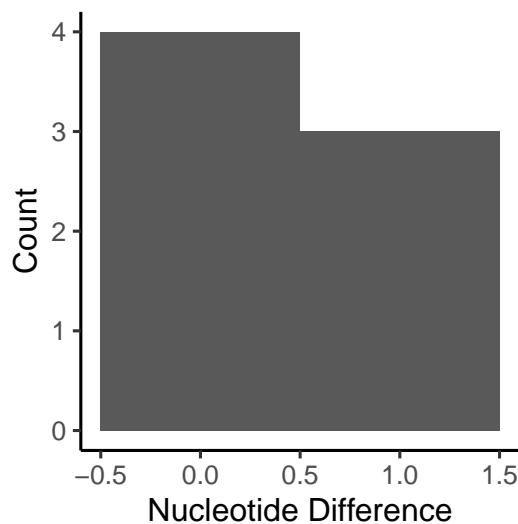
IGHV3-21*01_02

197 sequences assigned
165 (83.8%) exact matches, in which:
165 unique CDR3
6 unique J



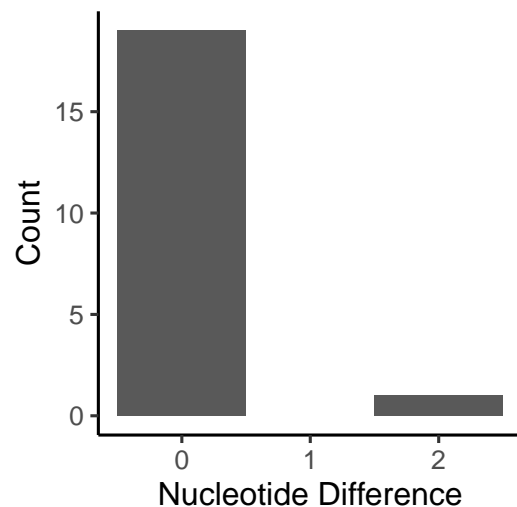
IGHV3-30-3*03

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



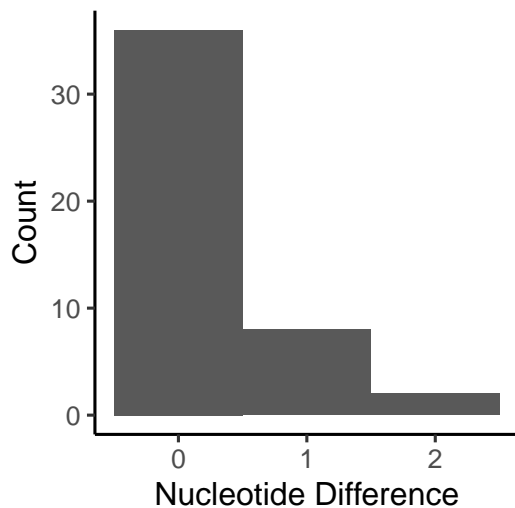
IGHV3-43*02

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



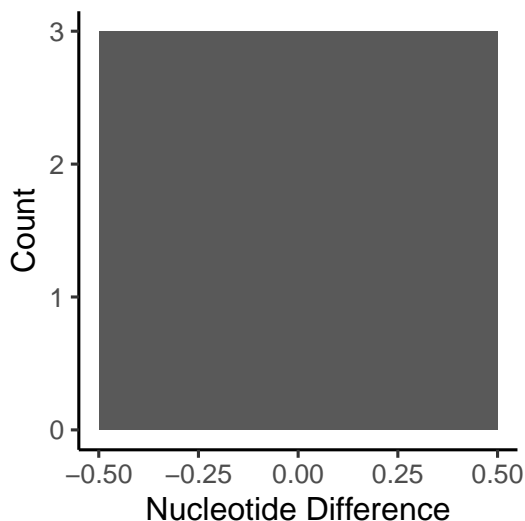
IGHV3-48*01

46 sequences assigned
36 (78.3%) exact matches, in which:
35 unique CDR3
5 unique J



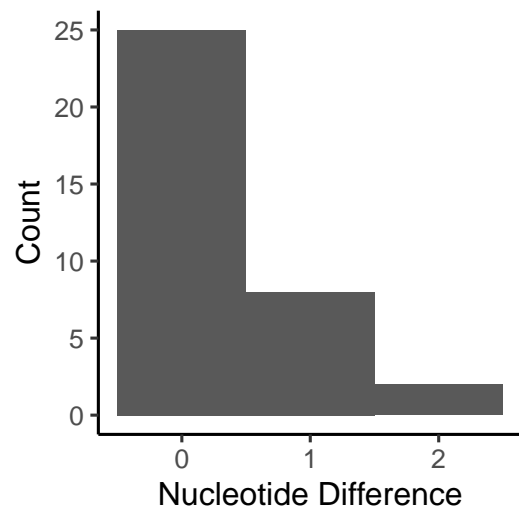
IGHV3-49*04

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



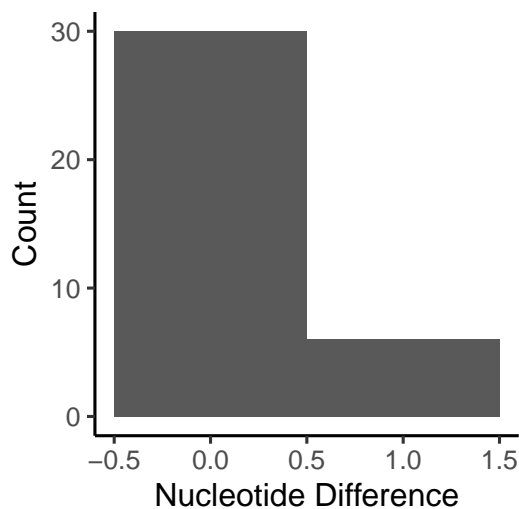
IGHV3-53*01_02

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



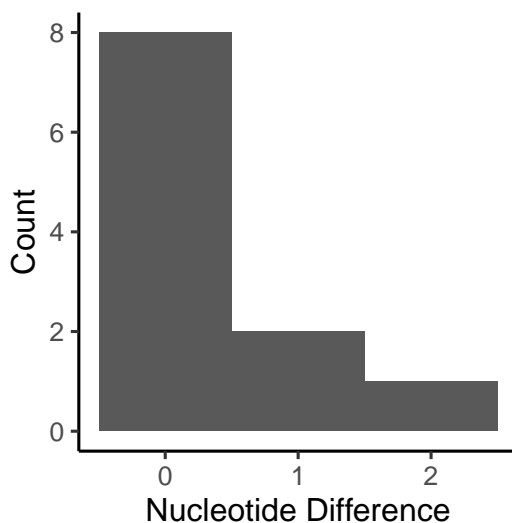
IGHV3-48*02

36 sequences assigned
30 (83.3%) exact matches, in which:
29 unique CDR3
5 unique J



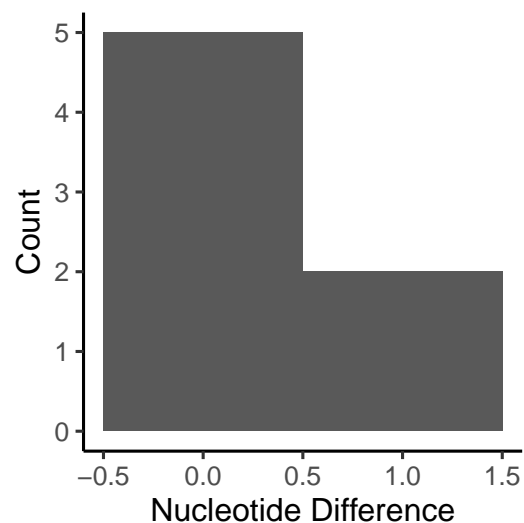
IGHV3-49*03_05

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



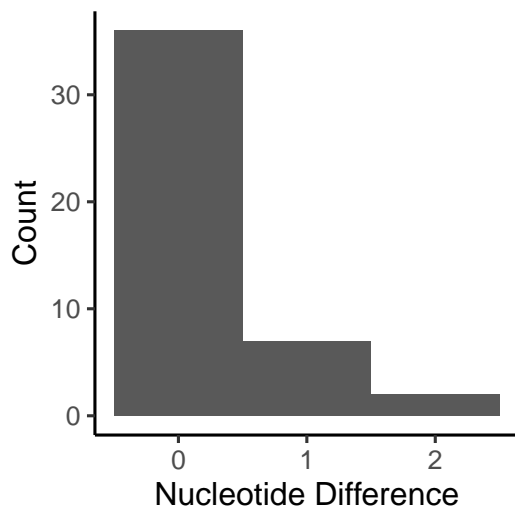
IGHV3-64*01

7 sequences assigned
5 (71.4%) exact matches, in which:
5 unique CDR3
4 unique J



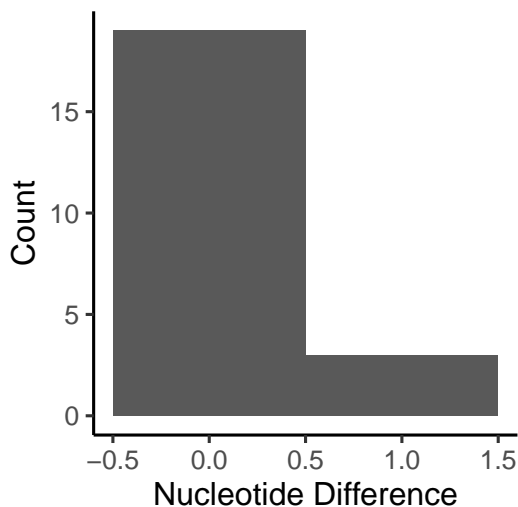
IGHV3-48*03

45 sequences assigned
36 (80%) exact matches, in which:
35 unique CDR3
5 unique J



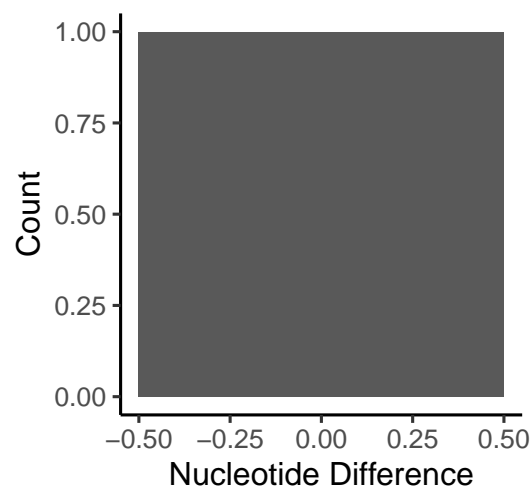
IGHV3-53*04

22 sequences assigned
19 (86.4%) exact matches, in which:
19 unique CDR3
4 unique J



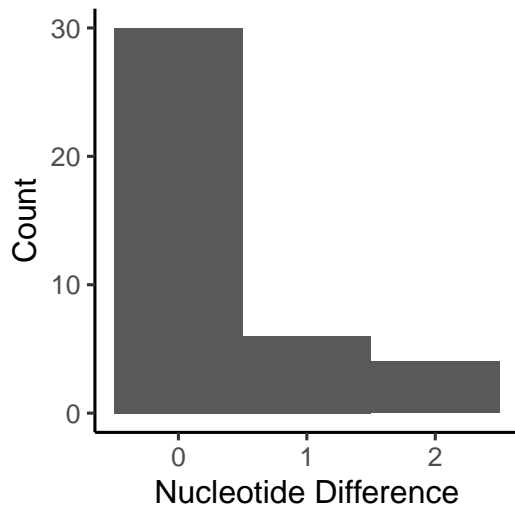
IGHV3-64*02_07

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



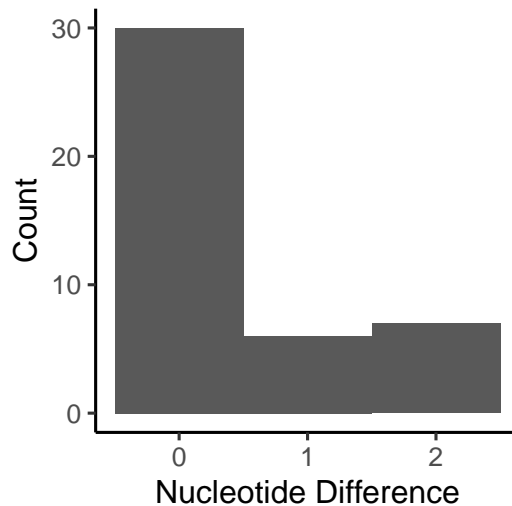
IGHV3-66*02

40 sequences assigned
30 (75%) exact matches, in which:
29 unique CDR3
5 unique J



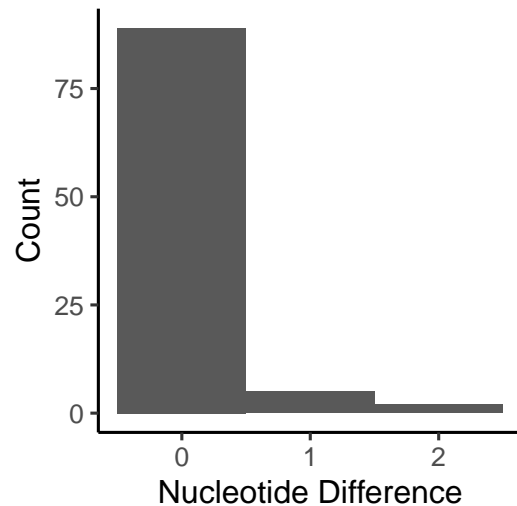
IGHV3-74*01_02

43 sequences assigned
30 (69.8%) exact matches, in which:
30 unique CDR3
4 unique J



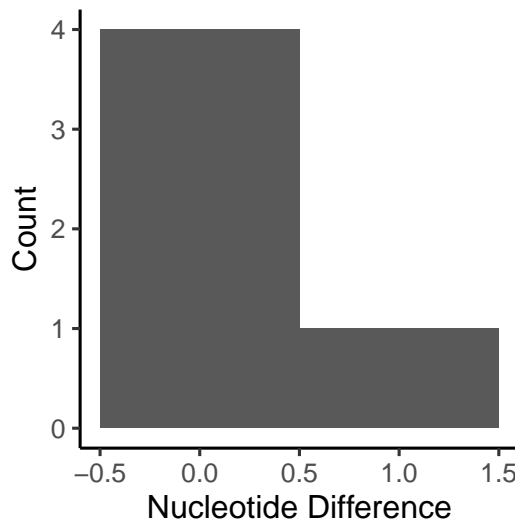
IGHV4-4*07

96 sequences assigned
89 (92.7%) exact matches, in which:
85 unique CDR3
5 unique J



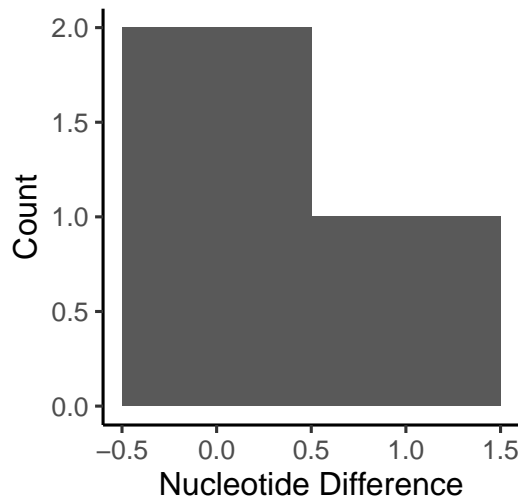
IGHV3-72*01

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



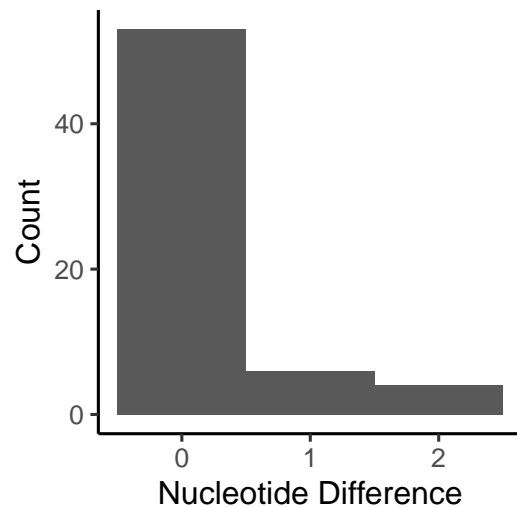
IGHV3-64D*06

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



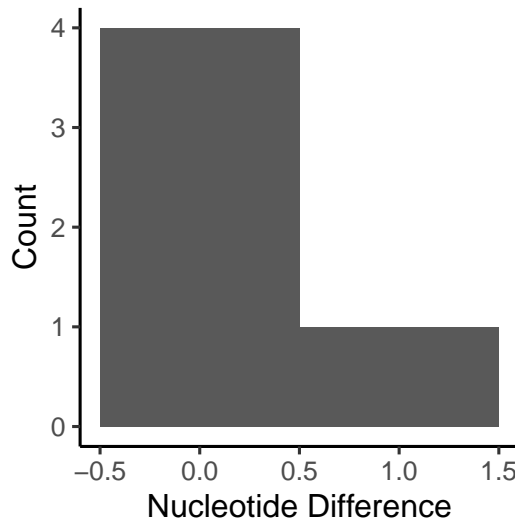
IGHV4-4*02_03

63 sequences assigned
53 (84.1%) exact matches, in which:
53 unique CDR3
5 unique J



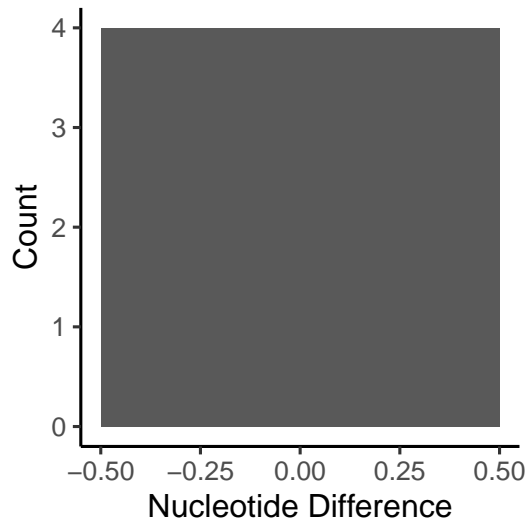
IGHV3-73*01_02

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



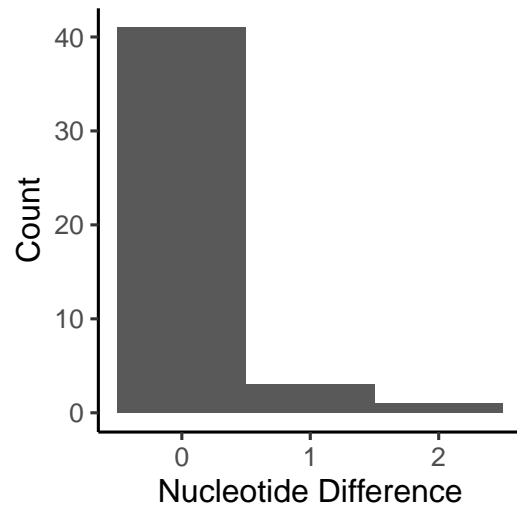
IGHV3-64D*08

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



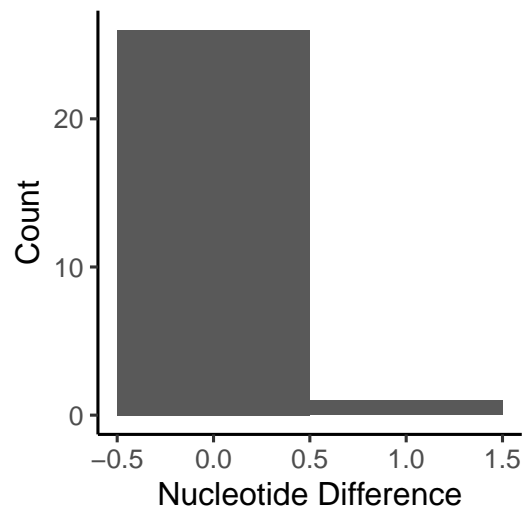
IGHV4-30-2*01

45 sequences assigned
41 (91.1%) exact matches, in which:
40 unique CDR3
4 unique J



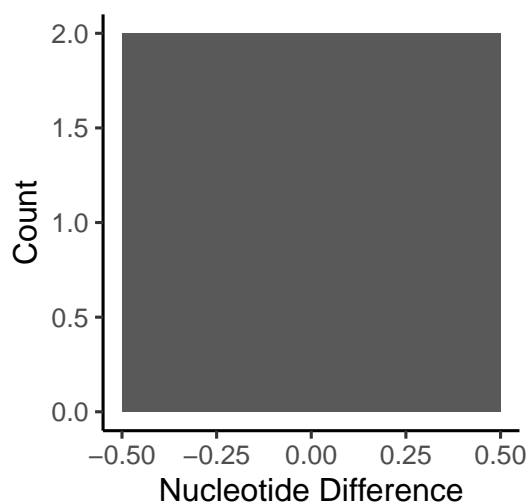
IGHV4-30-4*01

27 sequences assigned
26 (96.3%) exact matches, in which:
24 unique CDR3
5 unique J



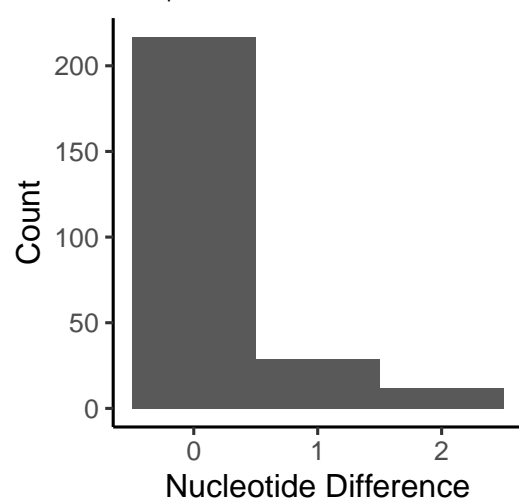
IGHV4-38-2*01

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



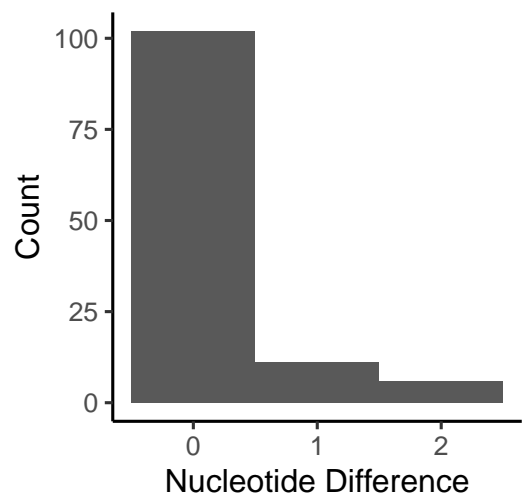
IGHV4-39*02_C258G

258 sequences assigned
217 (84.1%) exact matches, in which:
213 unique CDR3
6 unique J



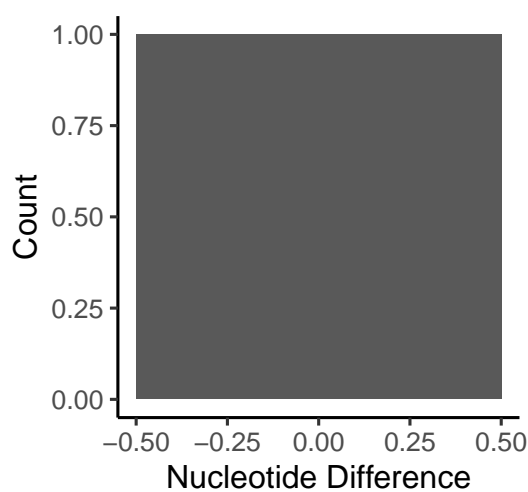
IGHV4-31*02

119 sequences assigned
102 (85.7%) exact matches, in which:
101 unique CDR3
6 unique J



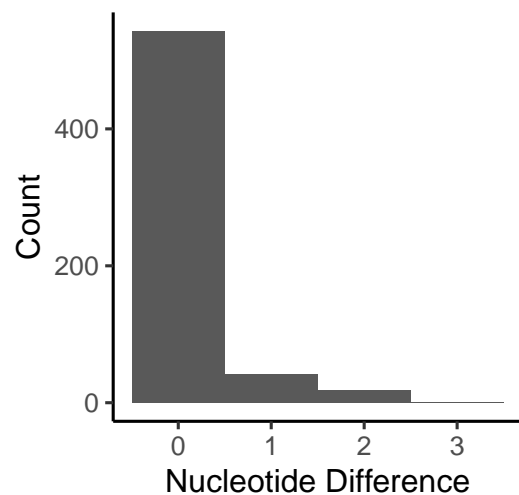
IGHV4-38-2*02

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



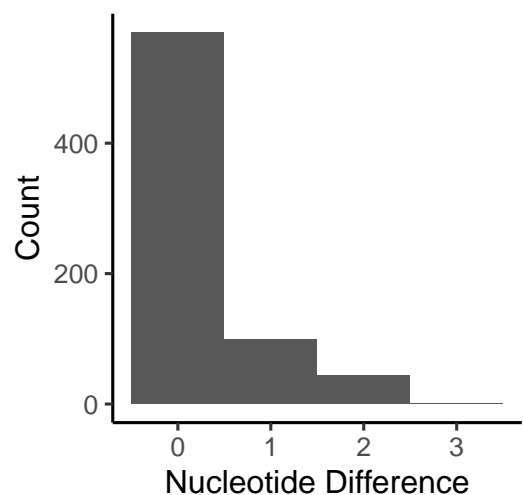
IGHV4-59*02_G88A

603 sequences assigned
543 (90%) exact matches, in which:
521 unique CDR3
6 unique J



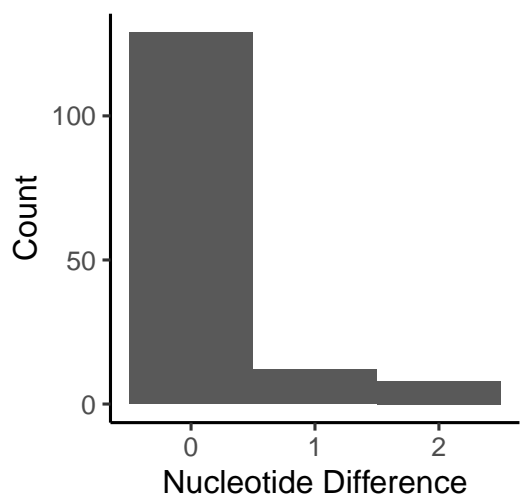
IGHV4-34*01_02

714 sequences assigned
570 (79.8%) exact matches, in which:
553 unique CDR3
6 unique J



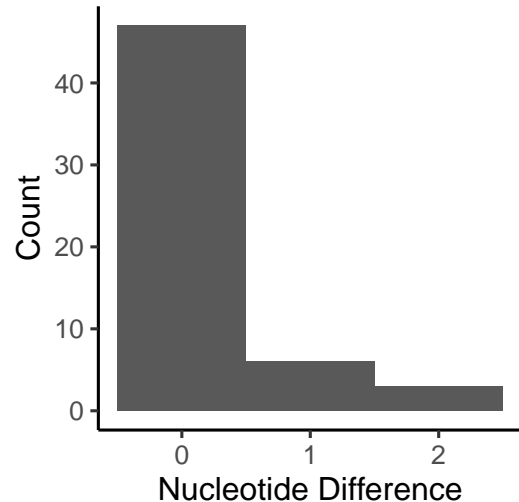
IGHV4-39*07

149 sequences assigned
129 (86.6%) exact matches, in which:
128 unique CDR3
5 unique J



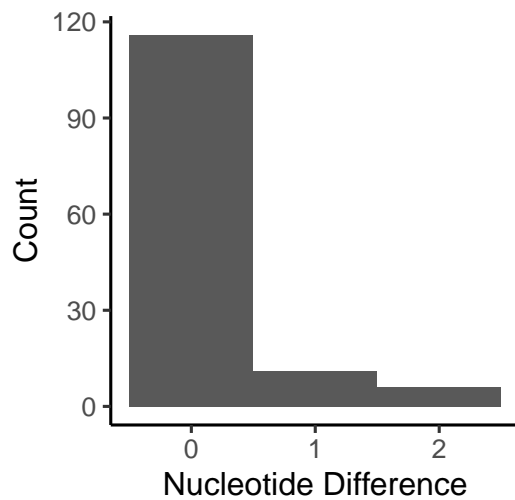
IGHV4-61*01

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



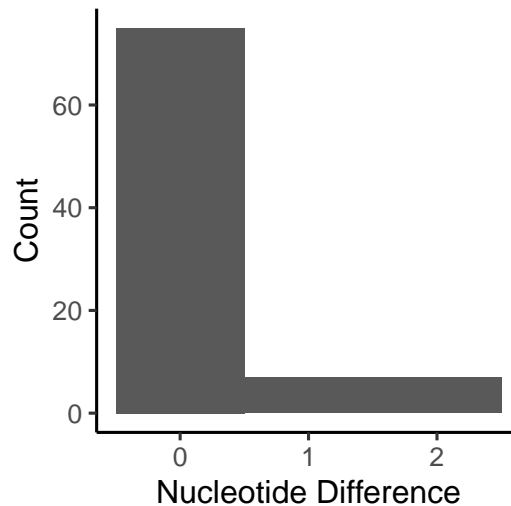
IGHV4–61*02

133 sequences assigned
116 (87.2%) exact matches, in which:
115 unique CDR3
5 unique J



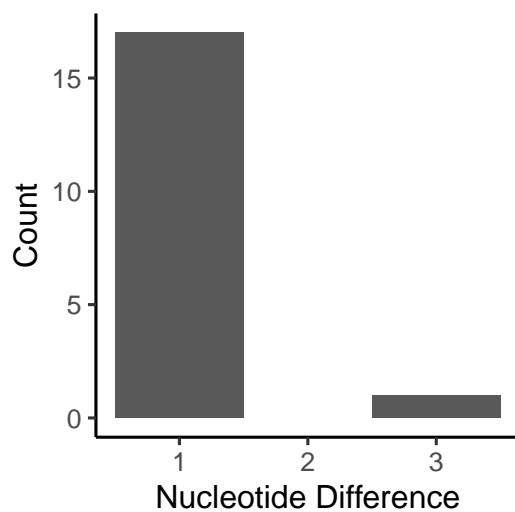
IGHV6–1*01_02

89 sequences assigned
75 (84.3%) exact matches, in which:
75 unique CDR3
5 unique J



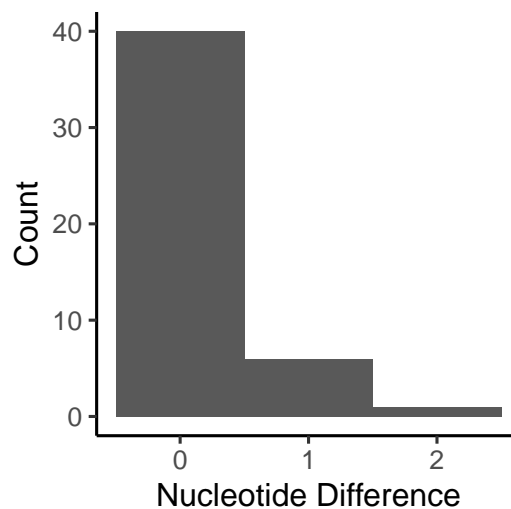
IGHV5–51*07

18 sequences assigned
No exact matches.



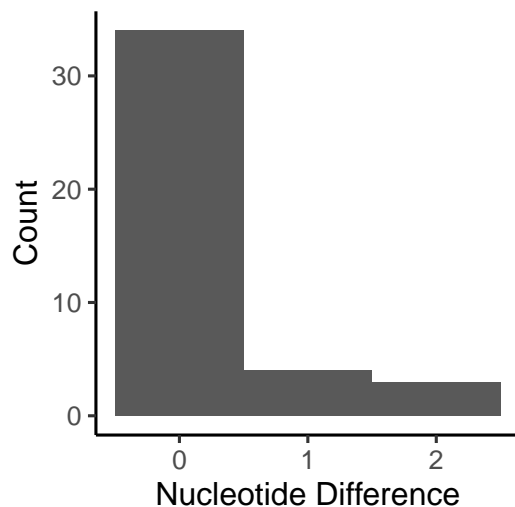
IGHV7–4–1*02

47 sequences assigned
40 (85.1%) exact matches, in which:
40 unique CDR3
6 unique J



IGHV5–51*01_03

41 sequences assigned
34 (82.9%) exact matches, in which:
34 unique CDR3
5 unique J





Warning – no inferred sequences found.