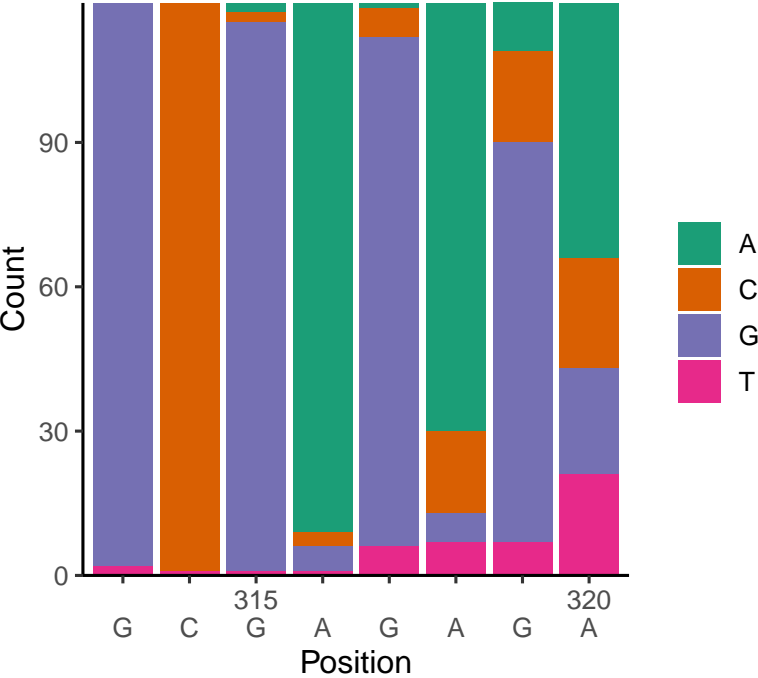
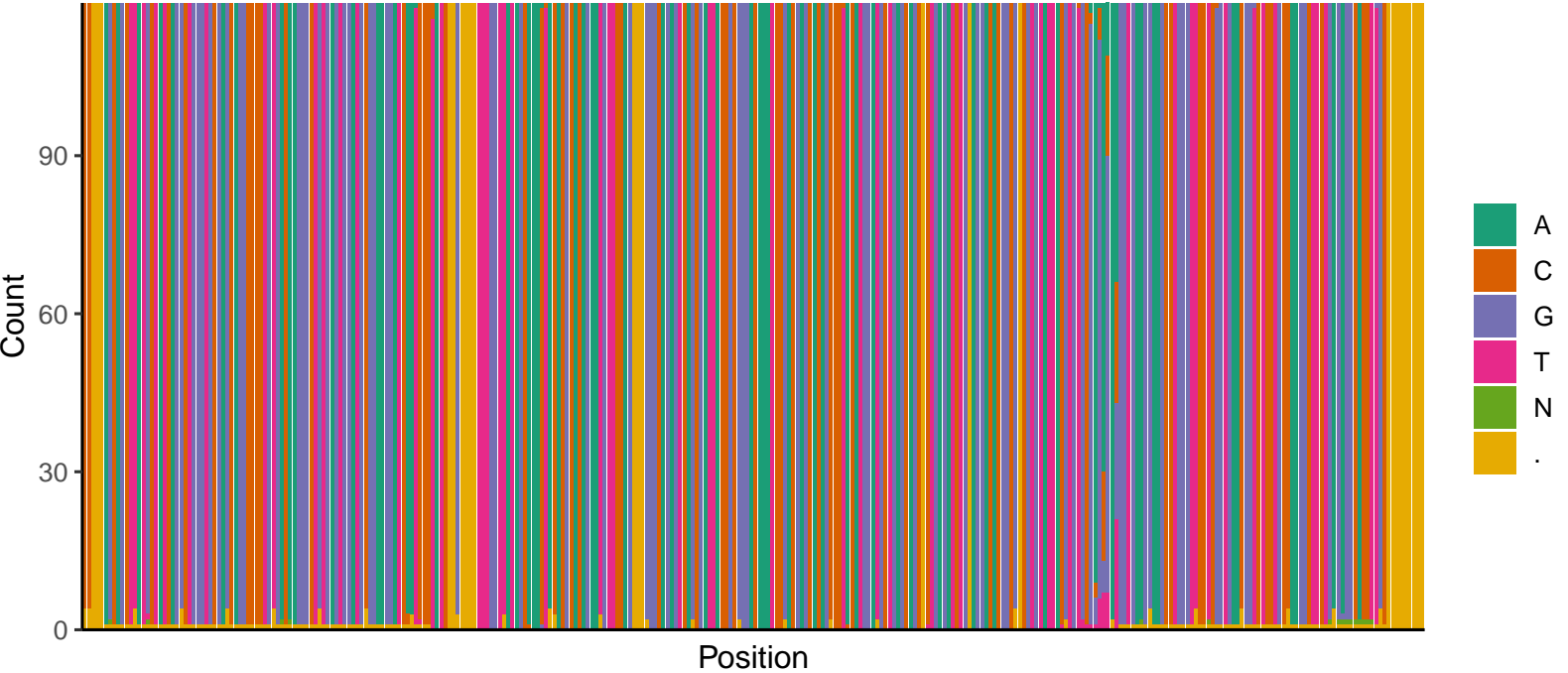


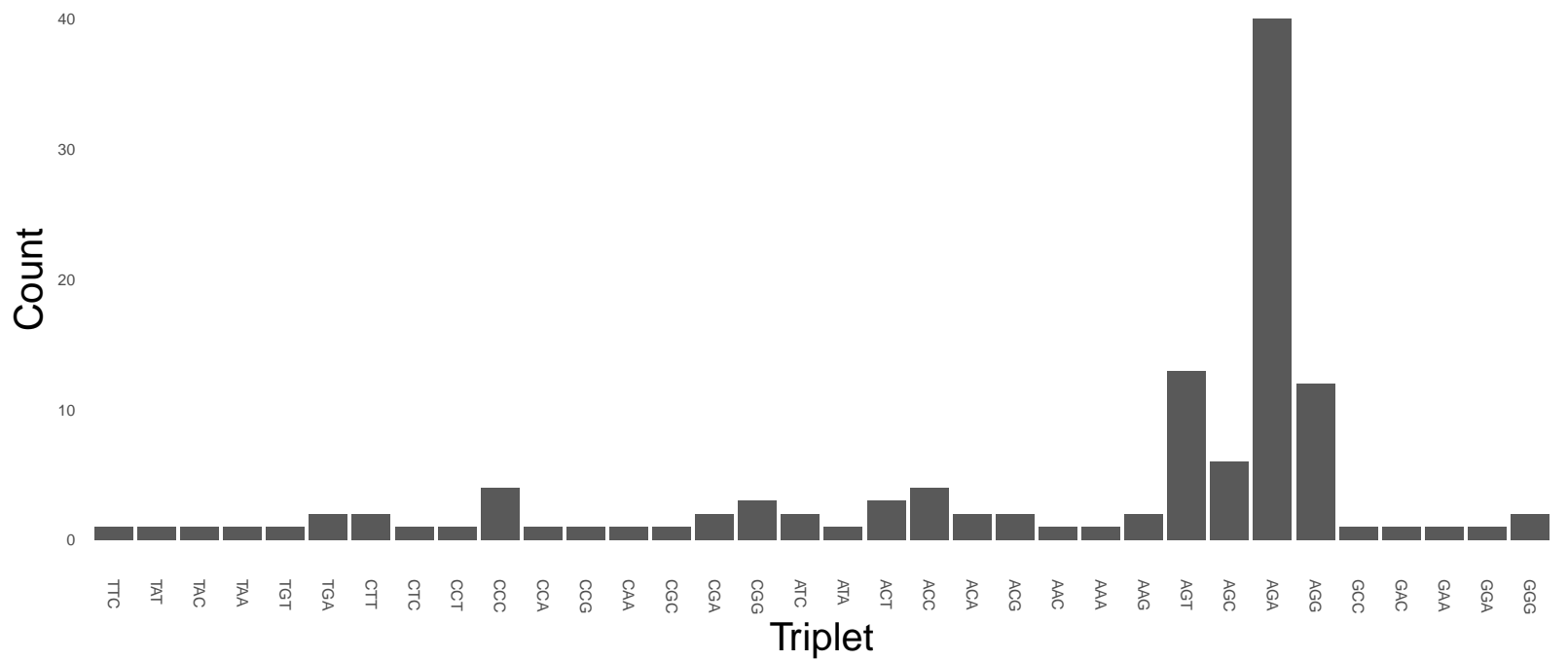
Gene IGHV1-69*04_C184T



Gene IGHV1-69*04_C184T

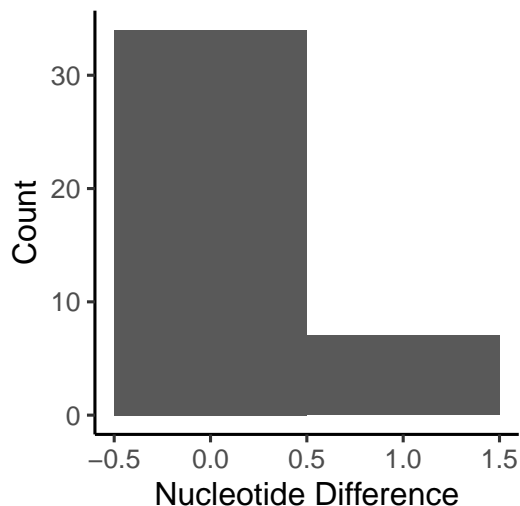


IGHV1-69*04_C184T- Final 3 nucleotides as a triplet



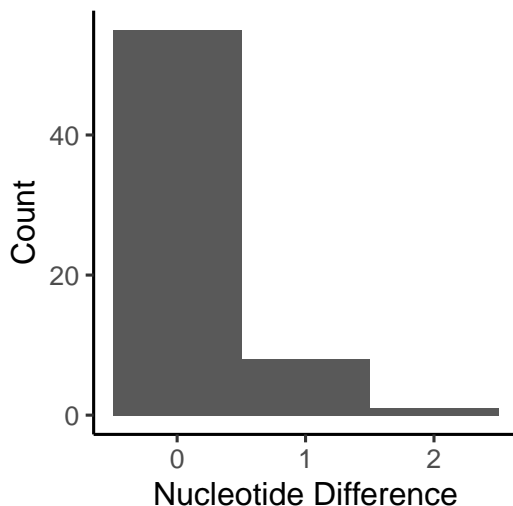
IGHV1-2*04

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



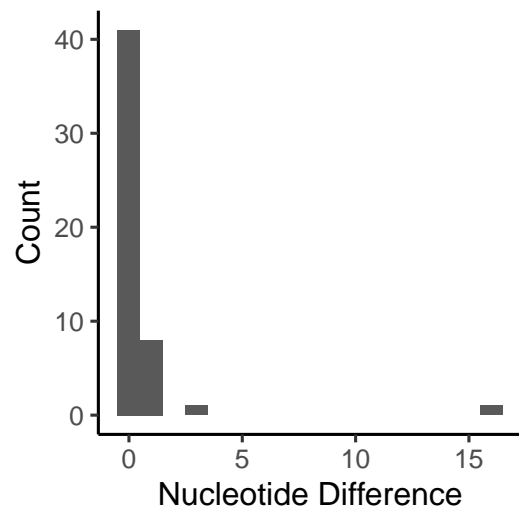
IGHV1-8*01

64 sequences assigned
55 (85.9%) exact matches, in which:
55 unique CDR3
5 unique J



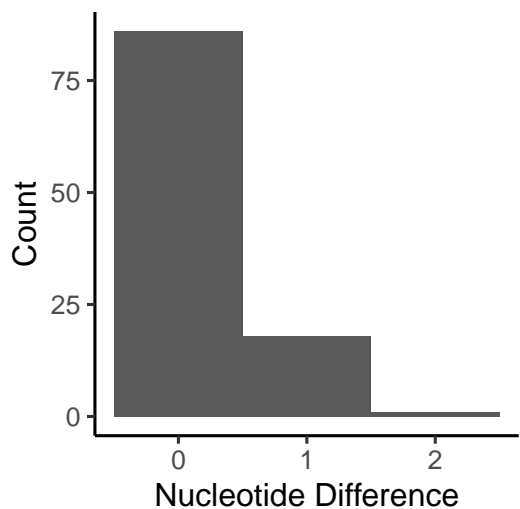
IGHV1-46*01

52 sequences assigned
41 (78.8%) exact matches, in which:
41 unique CDR3
4 unique J



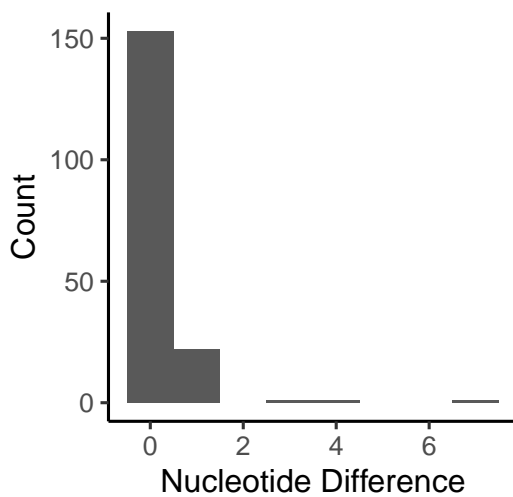
IGHV1-2*06

106 sequences assigned
86 (81.1%) exact matches, in which:
86 unique CDR3
5 unique J



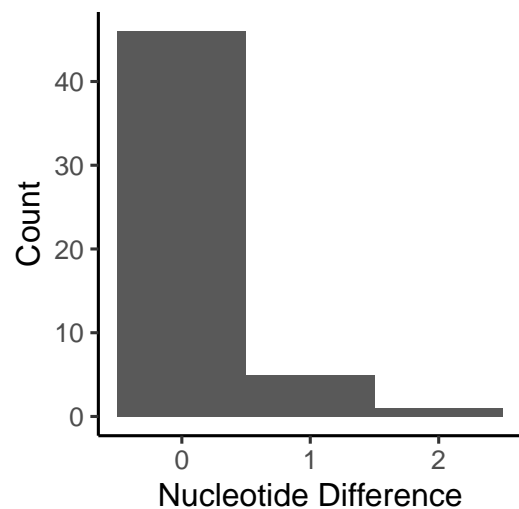
IGHV1-18*01

178 sequences assigned
153 (86%) exact matches, in which:
152 unique CDR3
4 unique J



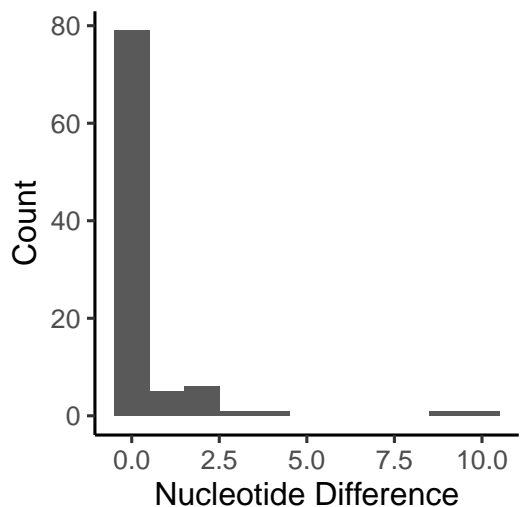
IGHV1-46*03

52 sequences assigned
46 (88.5%) exact matches, in which:
46 unique CDR3
6 unique J



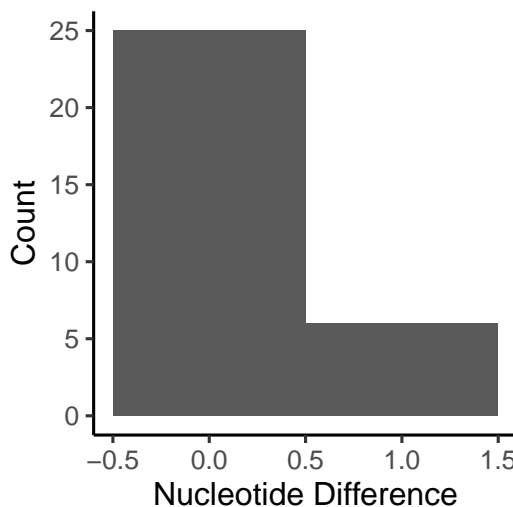
IGHV1-3*01

96 sequences assigned
79 (82.3%) exact matches, in which:
79 unique CDR3
5 unique J



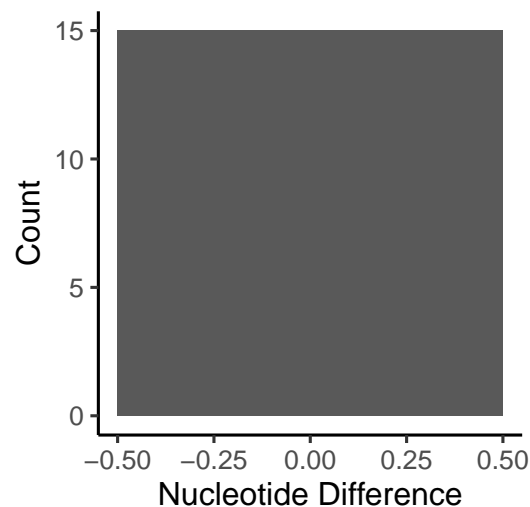
IGHV1-24*01

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



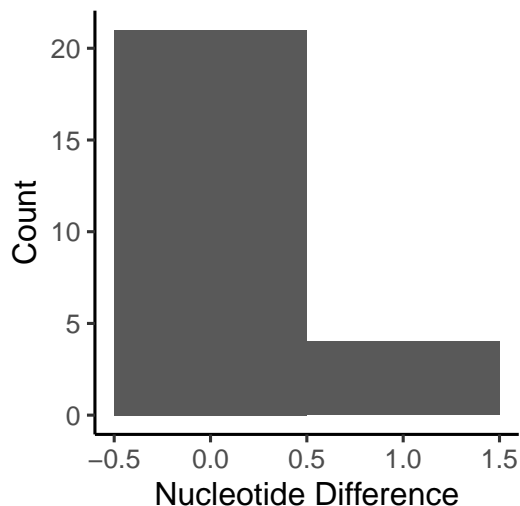
IGHV1-58*02

15 sequences assigned
15 (100%) exact matches, in which:
15 unique CDR3
3 unique J



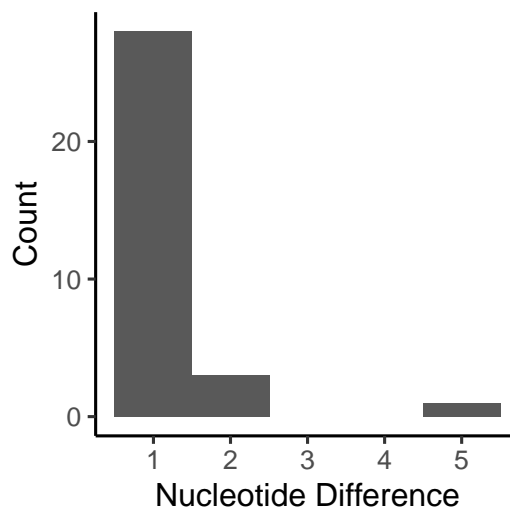
IGHV1-69-2*01

25 sequences assigned
21 (84%) exact matches, in which:
21 unique CDR3
4 unique J



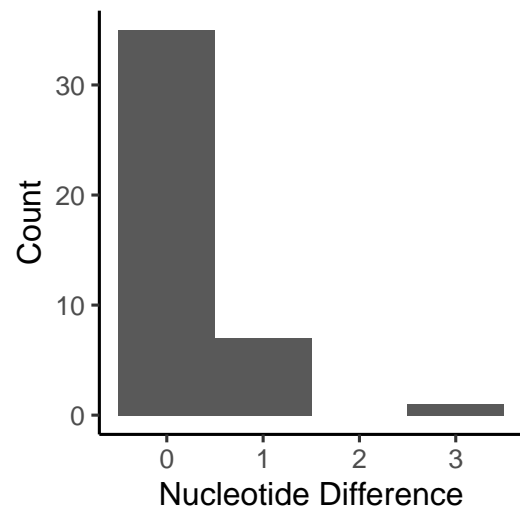
IGHV1-69*08

32 sequences assigned
No exact matches.



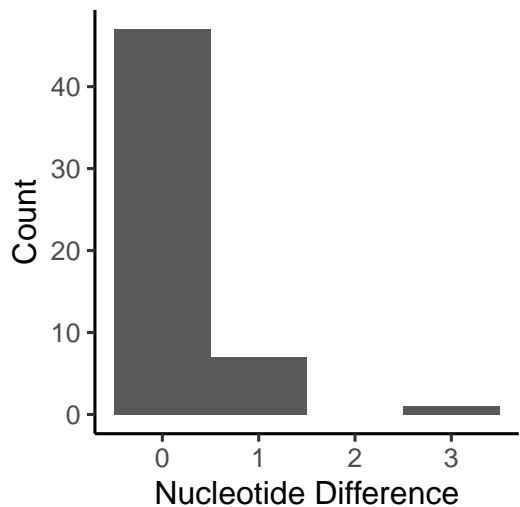
IGHV2-26*01

43 sequences assigned
35 (81.4%) exact matches, in which:
34 unique CDR3
4 unique J



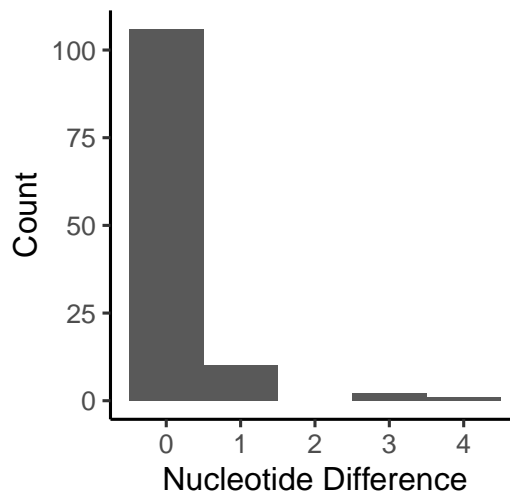
IGHV1-69*02

55 sequences assigned
47 (85.5%) exact matches, in which:
46 unique CDR3
5 unique J



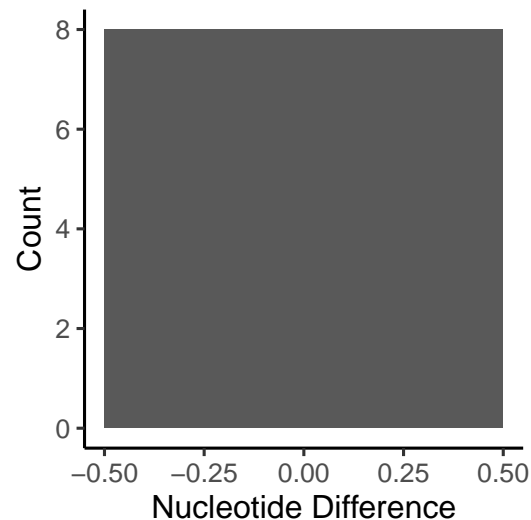
IGHV1-69*04_C184T

119 sequences assigned
106 (89.1%) exact matches, in which:
106 unique CDR3
4 unique J



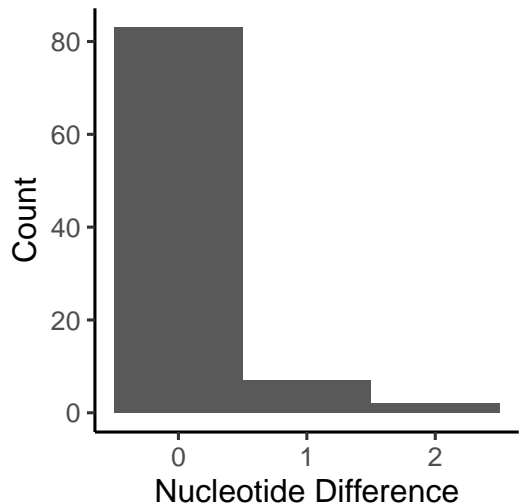
IGHV2-70*15

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
3 unique J



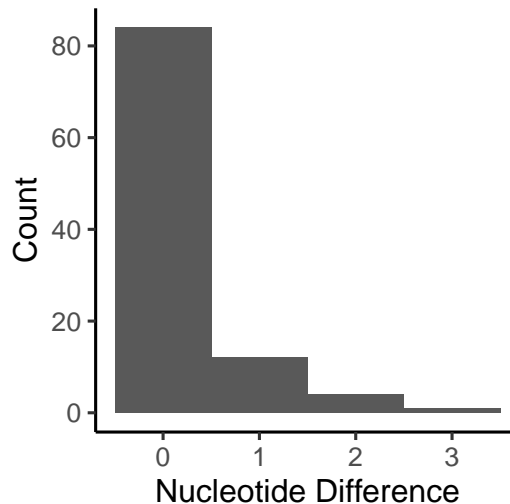
IGHV1-69*04

92 sequences assigned
83 (90.2%) exact matches, in which:
83 unique CDR3
6 unique J



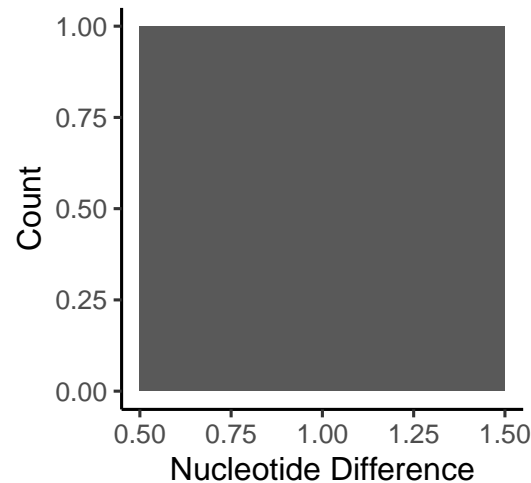
IGHV2-5*02

101 sequences assigned
84 (83.2%) exact matches, in which:
84 unique CDR3
6 unique J



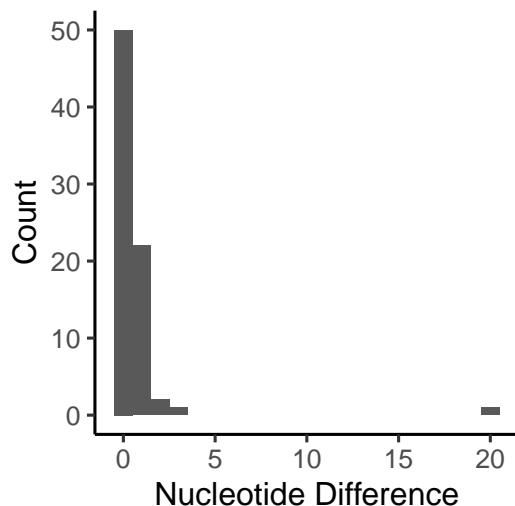
IGHV2-70D*04

1 sequences assigned
No exact matches.



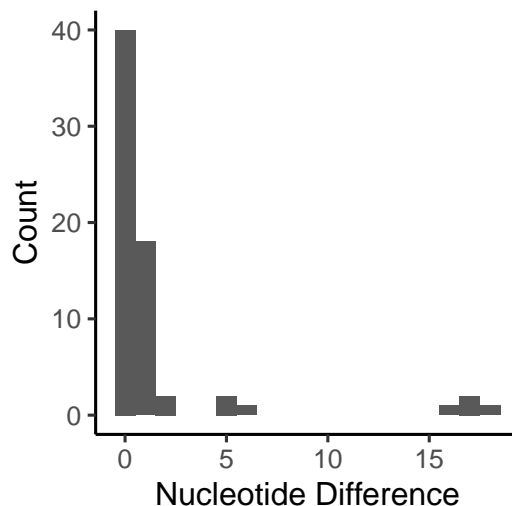
IGHV3-7*01

77 sequences assigned
50 (64.9%) exact matches, in which:
49 unique CDR3
6 unique J



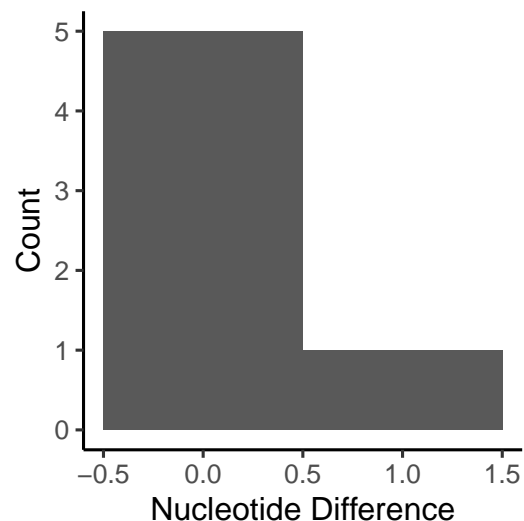
IGHV3-11*01

67 sequences assigned
40 (59.7%) exact matches, in which:
40 unique CDR3
5 unique J



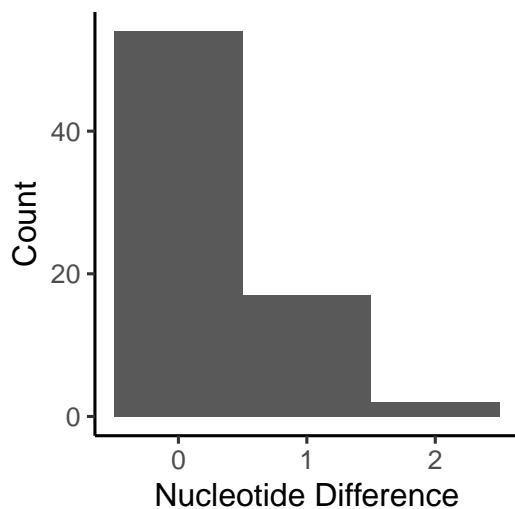
IGHV3-13*05

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



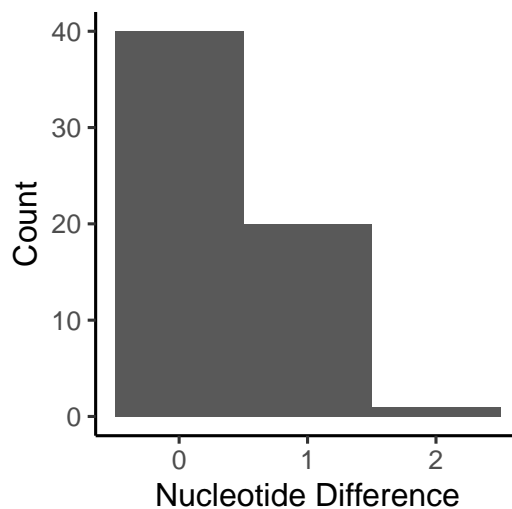
IGHV3-7*03

73 sequences assigned
54 (74%) exact matches, in which:
52 unique CDR3
5 unique J



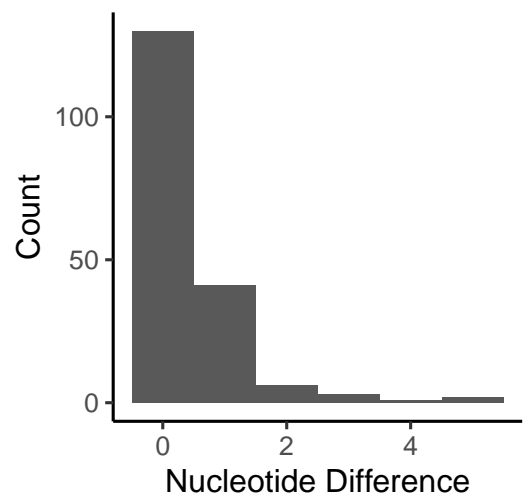
IGHV3-11*06

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



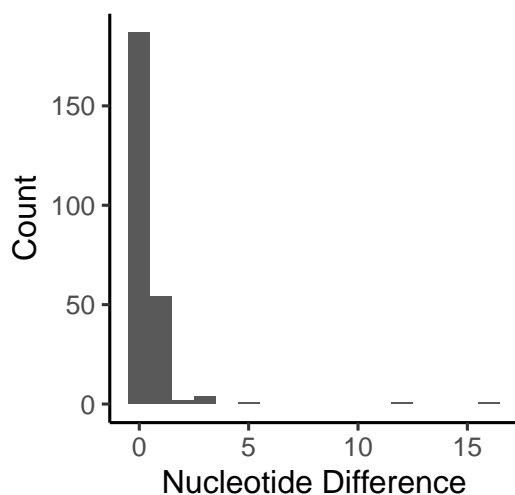
IGHV3-15*01

183 sequences assigned
130 (71%) exact matches, in which:
128 unique CDR3
6 unique J



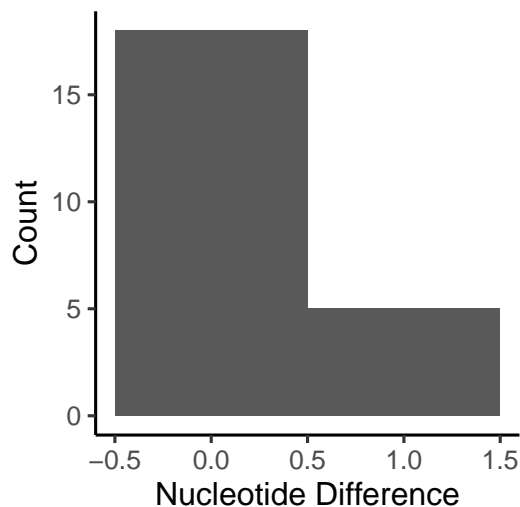
IGHV3-9*01

250 sequences assigned
187 (74.8%) exact matches, in which:
185 unique CDR3
6 unique J



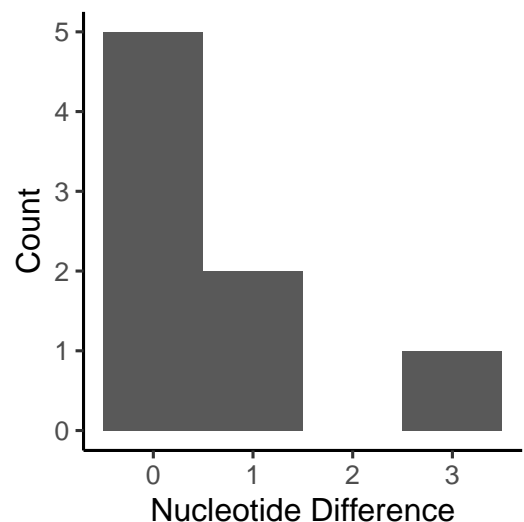
IGHV3-13*01

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



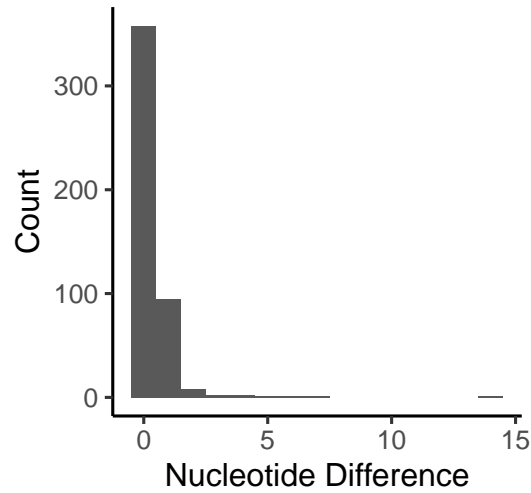
IGHV3-20*01

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



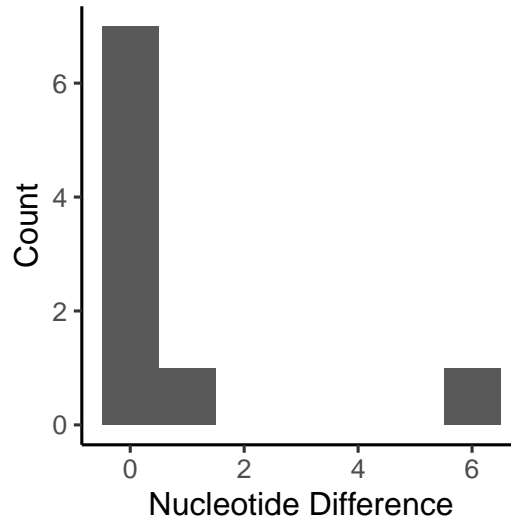
IGHV3–21*01

469 sequences assigned
358 (76.3%) exact matches, in which:
354 unique CDR3
6 unique J



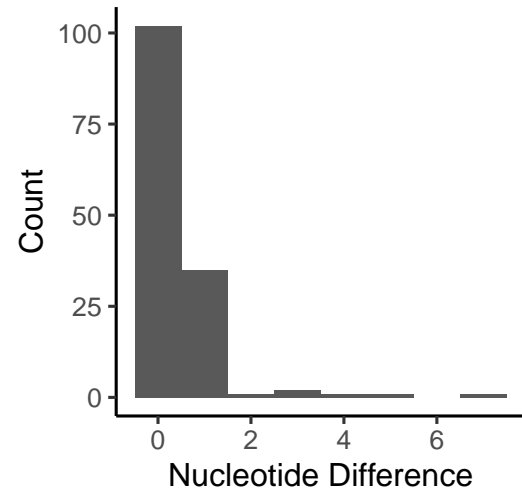
IGHV3–43*01

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



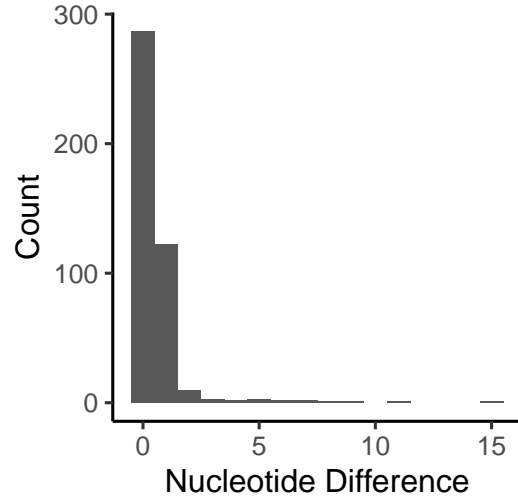
IGHV3–48*03

147 sequences assigned
102 (69.4%) exact matches, in which:
102 unique CDR3
6 unique J



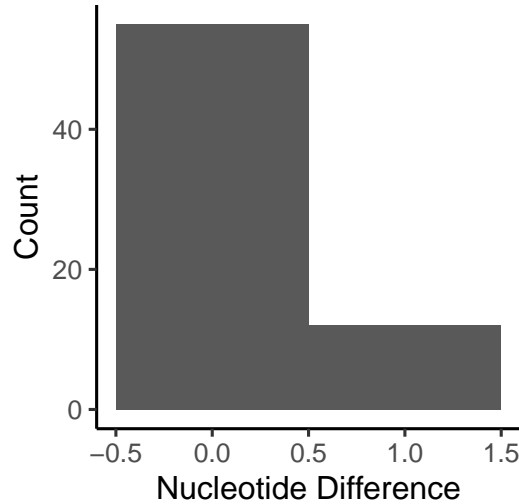
IGHV3–30–3*01

437 sequences assigned
287 (65.7%) exact matches, in which:
285 unique CDR3
6 unique J



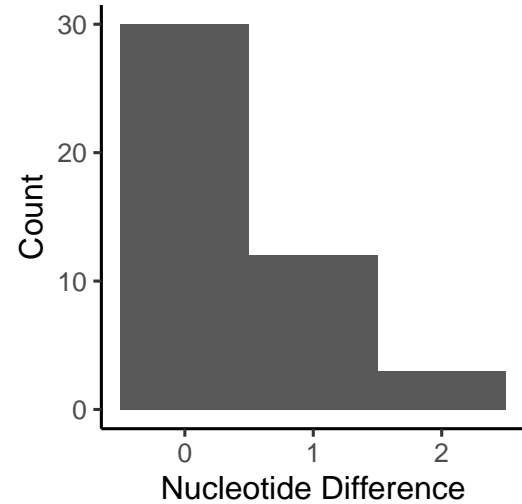
IGHV3–43*02

67 sequences assigned
55 (82.1%) exact matches, in which:
55 unique CDR3
4 unique J



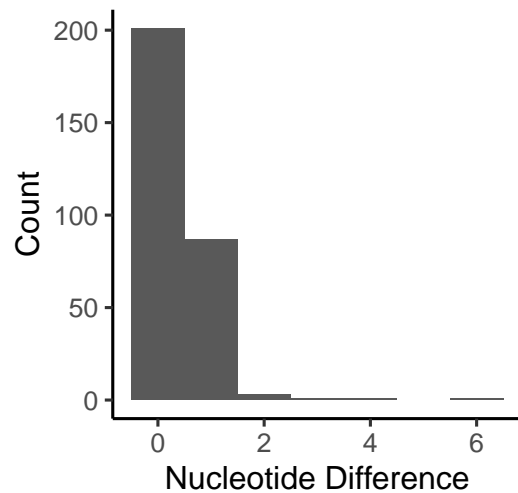
IGHV3–49*03

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



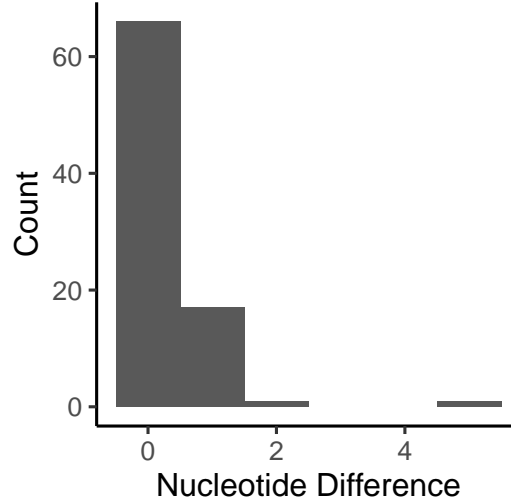
IGHV3–33*01

294 sequences assigned
201 (68.4%) exact matches, in which:
201 unique CDR3
5 unique J



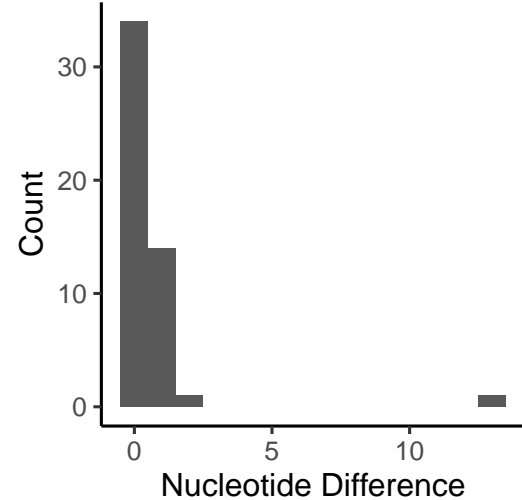
IGHV3–48*01

85 sequences assigned
66 (77.6%) exact matches, in which:
66 unique CDR3
6 unique J



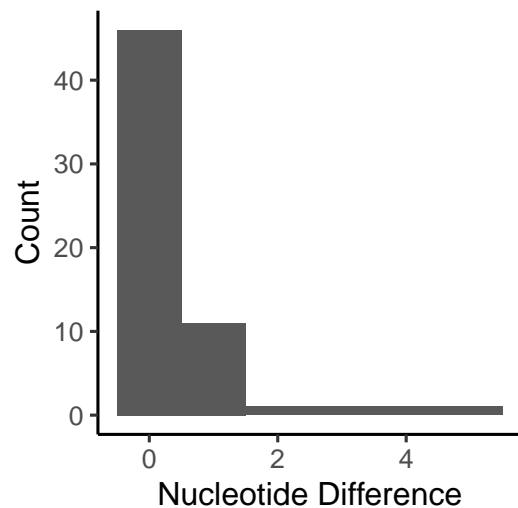
IGHV3–49*04

50 sequences assigned
34 (68%) exact matches, in which:
33 unique CDR3
4 unique J



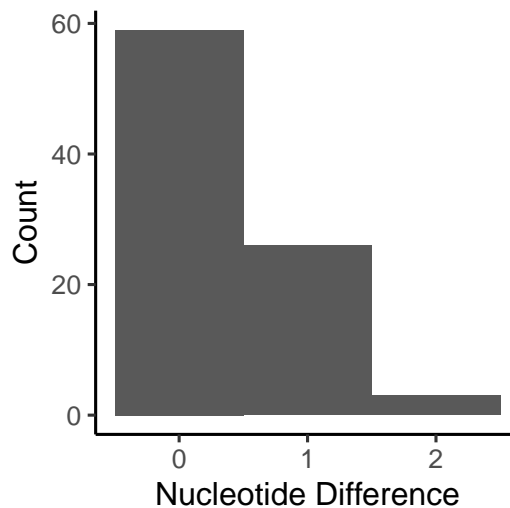
IGHV3-53*01

61 sequences assigned
46 (75.4%) exact matches, in which:
46 unique CDR3
5 unique J



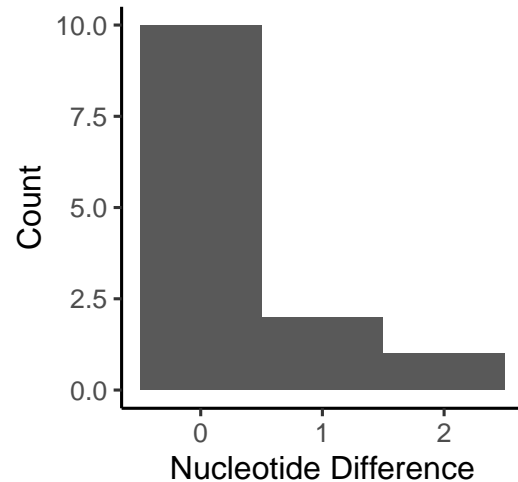
IGHV3-66*01

88 sequences assigned
59 (67%) exact matches, in which:
58 unique CDR3
6 unique J



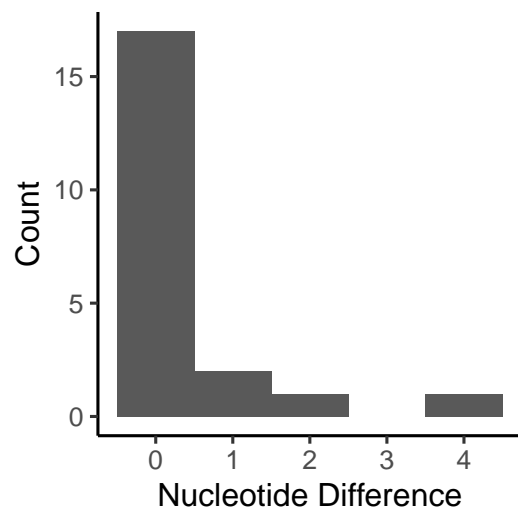
IGHV3-72*01

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
2 unique J



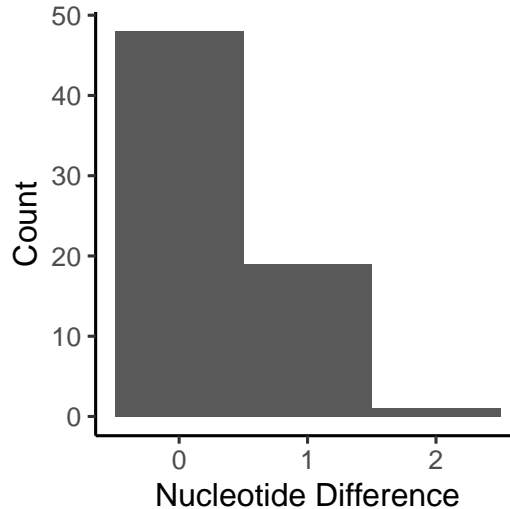
IGHV3-53*04

21 sequences assigned
17 (81%) exact matches, in which:
17 unique CDR3
6 unique J



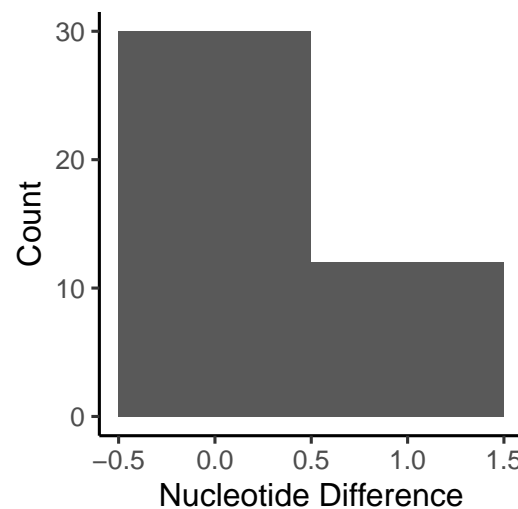
IGHV3-66*02

68 sequences assigned
48 (70.6%) exact matches, in which:
48 unique CDR3
5 unique J



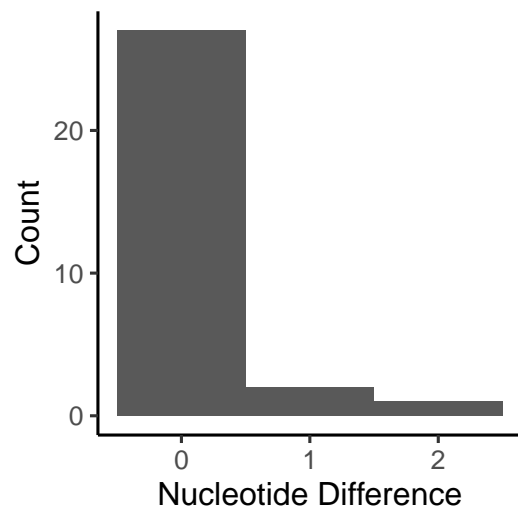
IGHV3-73*01

42 sequences assigned
30 (71.4%) exact matches, in which:
30 unique CDR3
3 unique J



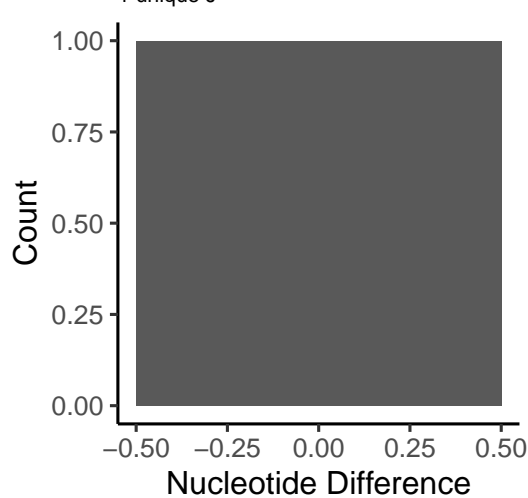
IGHV3-64*01

30 sequences assigned
27 (90%) exact matches, in which:
26 unique CDR3
4 unique J



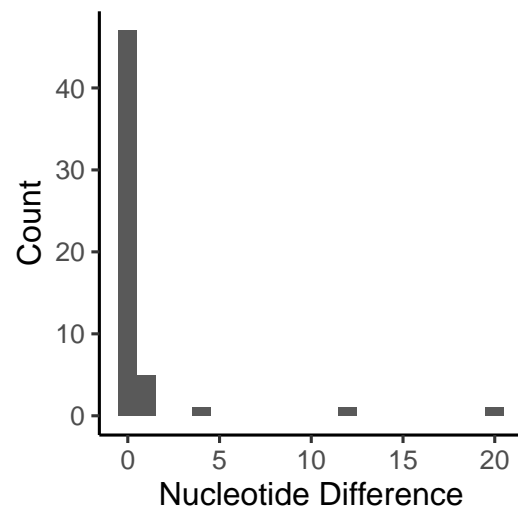
IGHV3-69-1*02

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



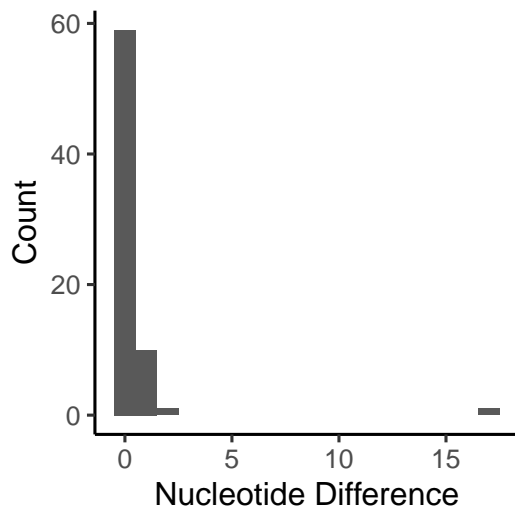
IGHV3-74*01

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



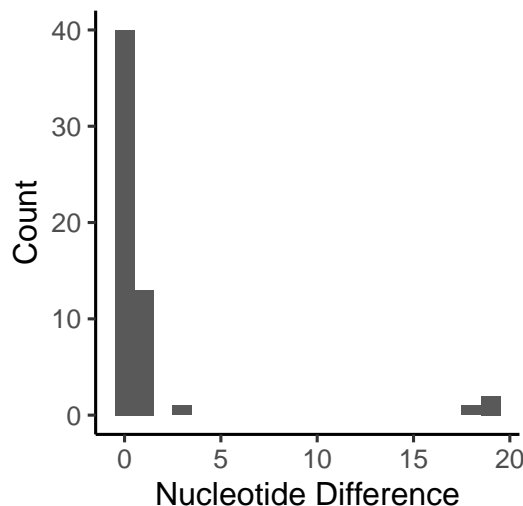
IGHV3-64D*06

71 sequences assigned
59 (83.1%) exact matches, in which:
59 unique CDR3
6 unique J



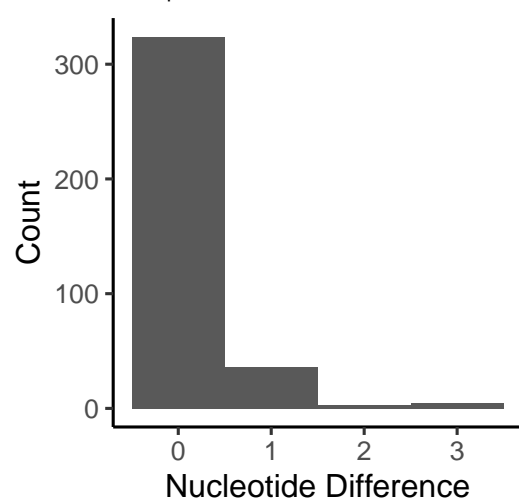
IGHV4-30-2*01

57 sequences assigned
40 (70.2%) exact matches, in which:
40 unique CDR3
5 unique J



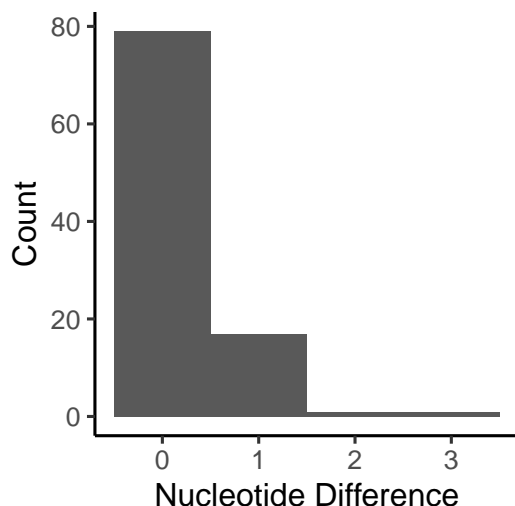
IGHV4-34*01

368 sequences assigned
324 (88%) exact matches, in which:
324 unique CDR3
5 unique J



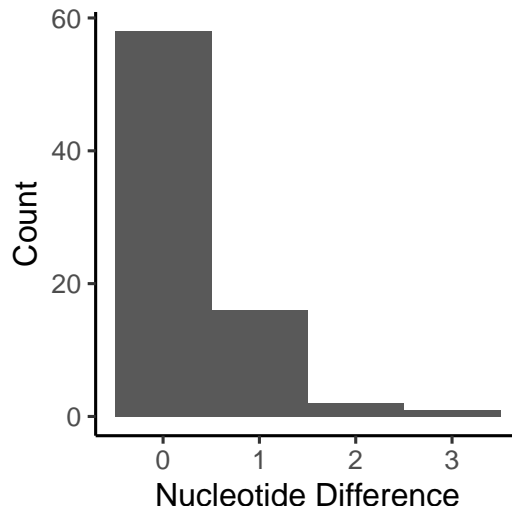
IGHV4-4*02

98 sequences assigned
79 (80.6%) exact matches, in which:
79 unique CDR3
5 unique J



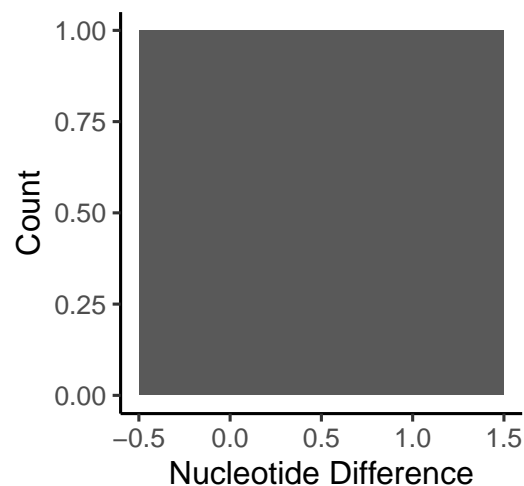
IGHV4-30-4*01

77 sequences assigned
58 (75.3%) exact matches, in which:
58 unique CDR3
4 unique J



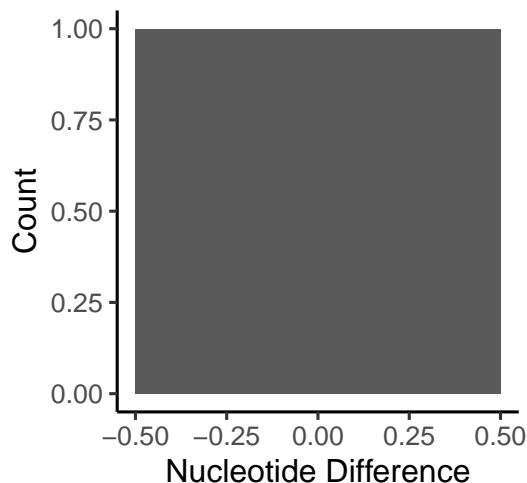
IGHV4-38-2*02

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



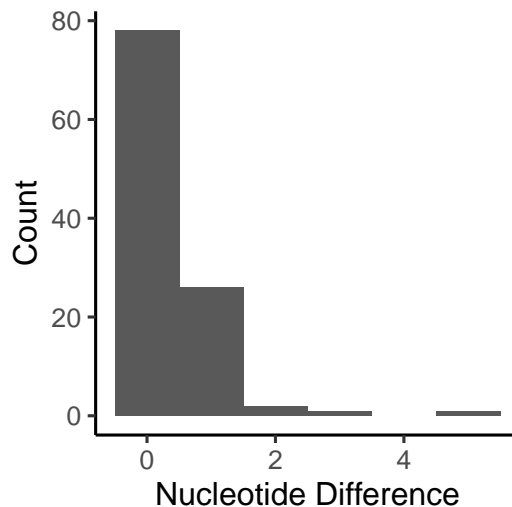
IGHV4-28*03

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



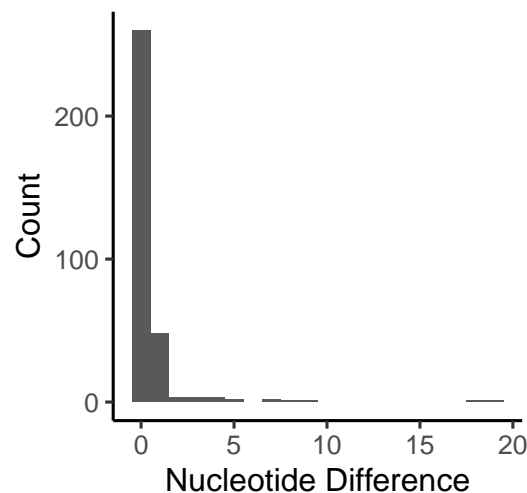
IGHV4-31*03

109 sequences assigned
78 (71.6%) exact matches, in which:
78 unique CDR3
6 unique J



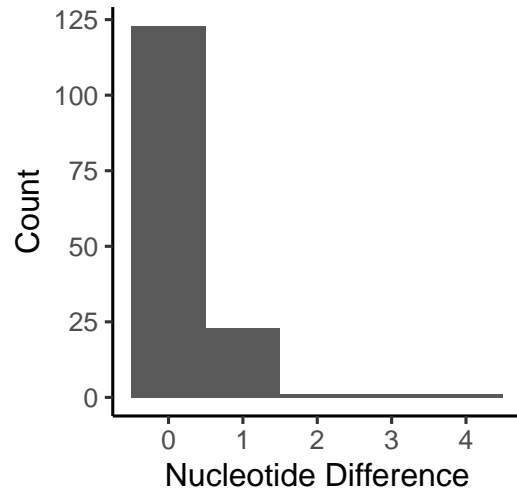
IGHV4-39*01

325 sequences assigned
260 (80%) exact matches, in which:
258 unique CDR3
6 unique J



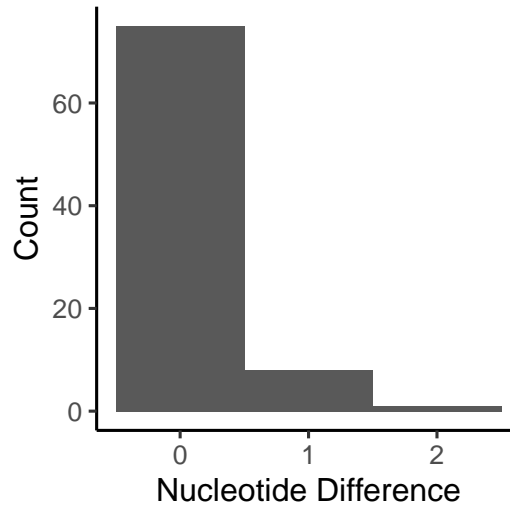
IGHV4–59*01

151 sequences assigned
123 (81.5%) exact matches, in which:
123 unique CDR3
5 unique J



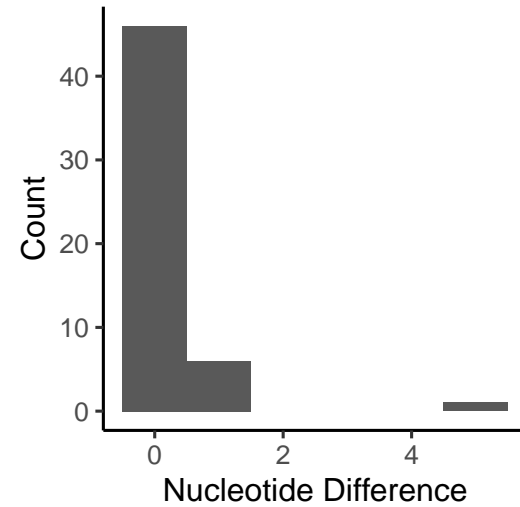
IGHV5–10–1*03

84 sequences assigned
75 (89.3%) exact matches, in which:
74 unique CDR3
6 unique J



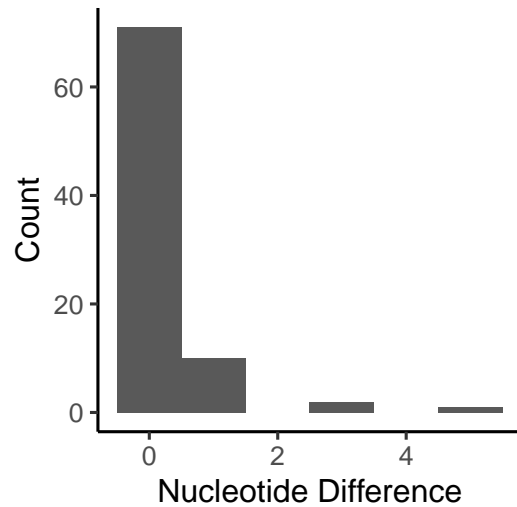
IGHV6–1*01

53 sequences assigned
46 (86.8%) exact matches, in which:
46 unique CDR3
5 unique J



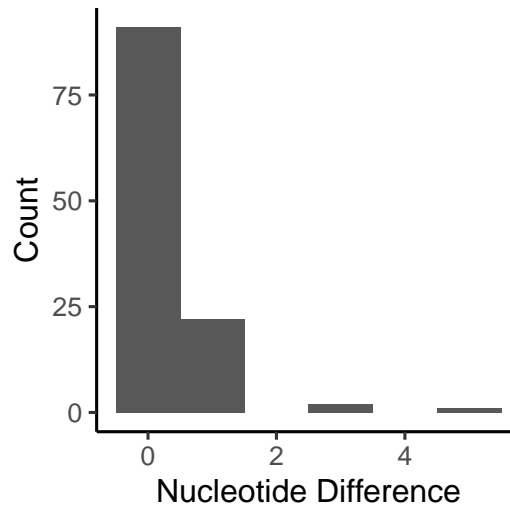
IGHV4–59*08

84 sequences assigned
71 (84.5%) exact matches, in which:
71 unique CDR3
6 unique J



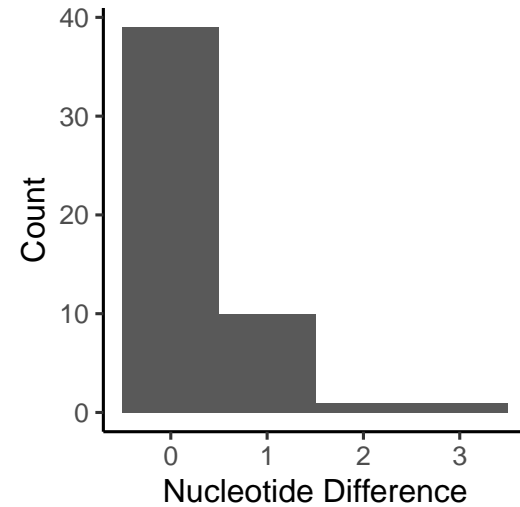
IGHV5–51*01

116 sequences assigned
91 (78.4%) exact matches, in which:
91 unique CDR3
5 unique J



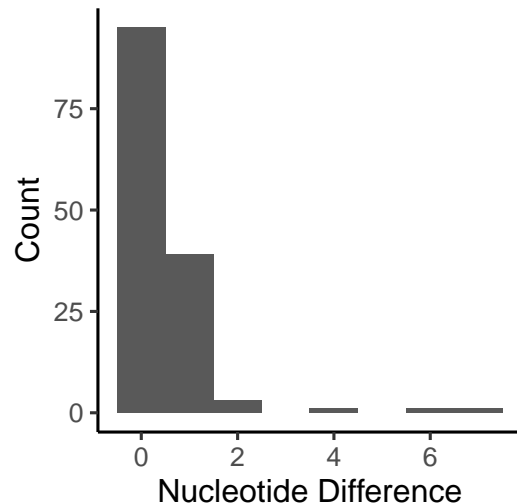
IGHV7–4–1*02

51 sequences assigned
39 (76.5%) exact matches, in which:
39 unique CDR3
6 unique J



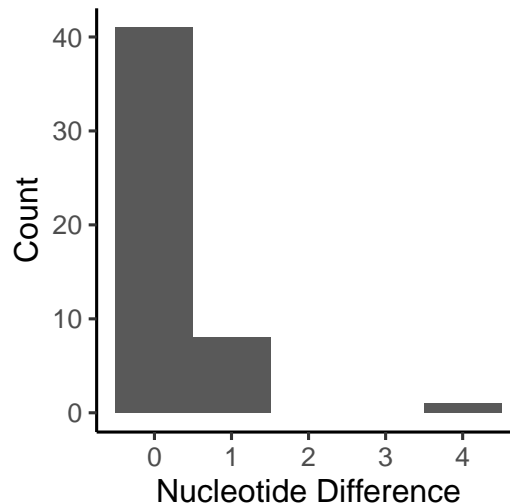
IGHV4–61*02

140 sequences assigned
95 (67.9%) exact matches, in which:
95 unique CDR3
6 unique J

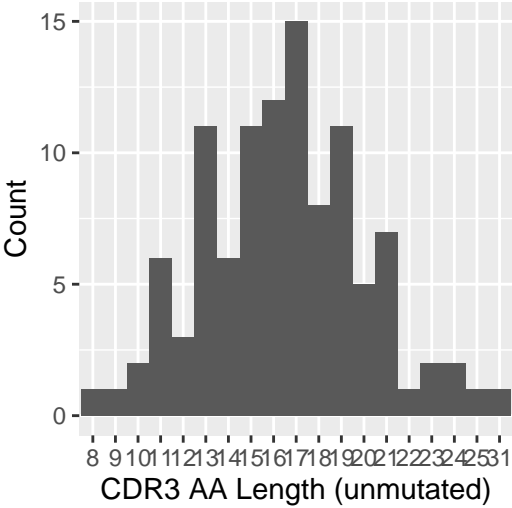


IGHV5–51*03

50 sequences assigned
41 (82%) exact matches, in which:
41 unique CDR3
5 unique J



IGHV1-69*04_C184T





[illegible]