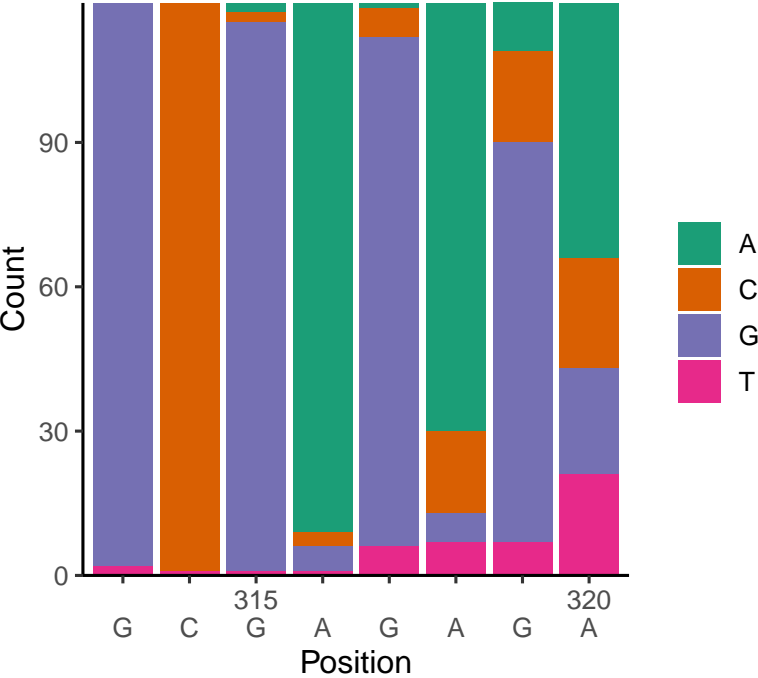
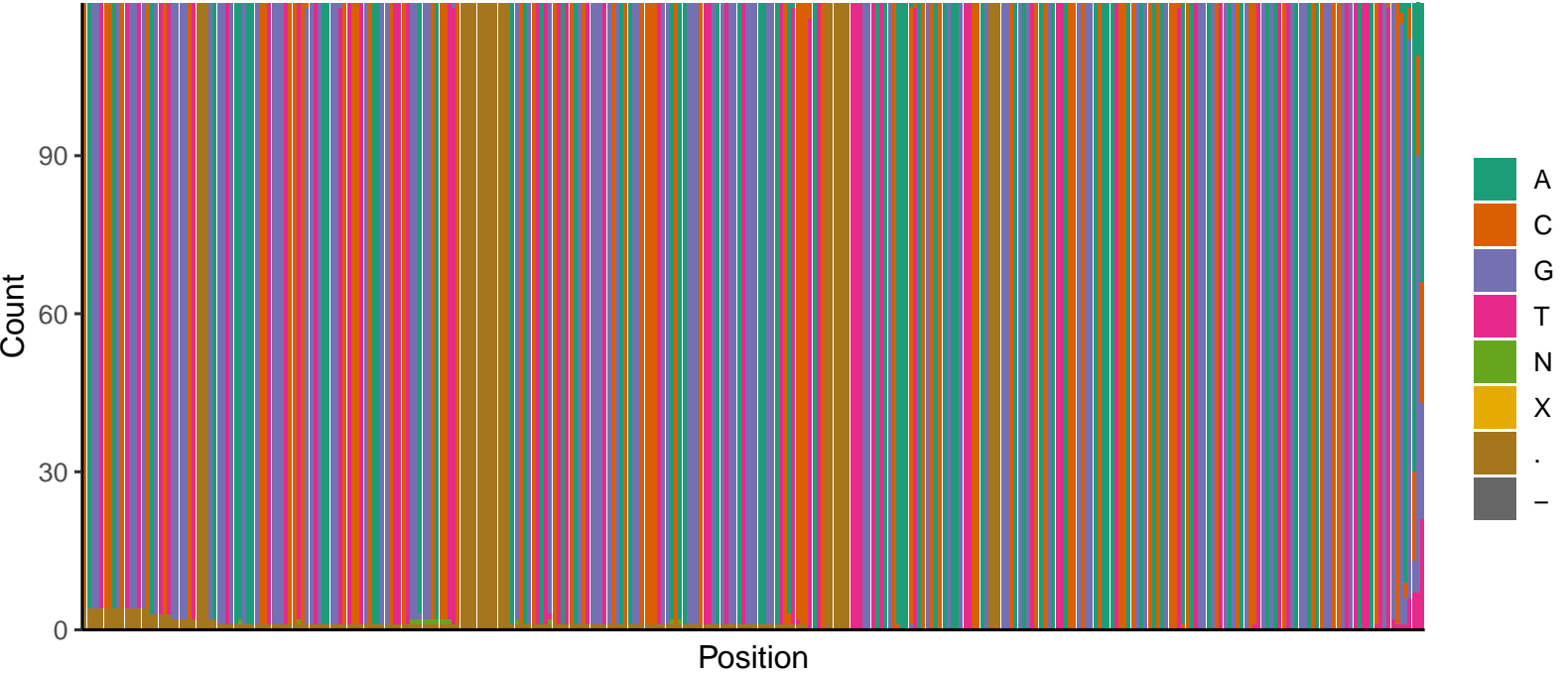


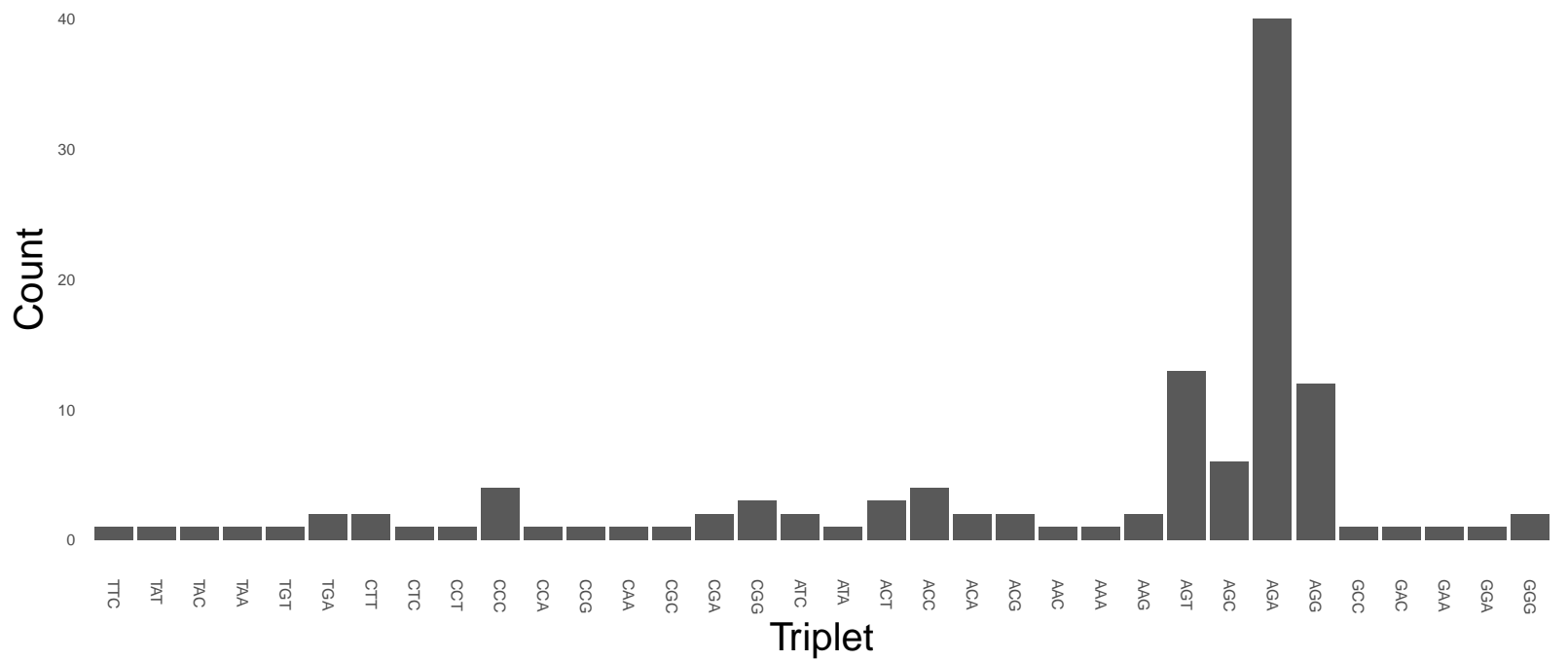
Gene IGHV1-69*04_C184T



Gene IGHV1-69*04_C184T

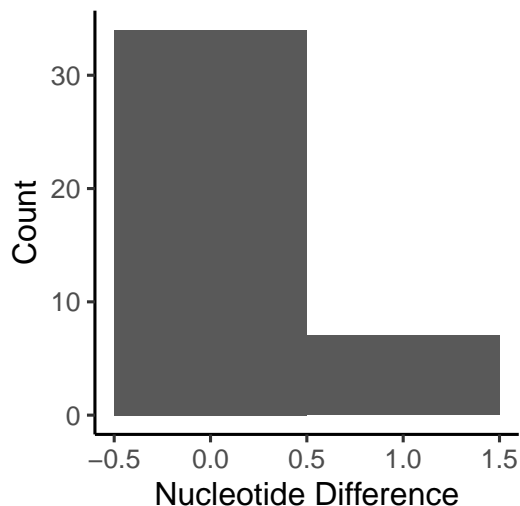


IGHV1-69*04_C184T- Final 3 nucleotides as a triplet



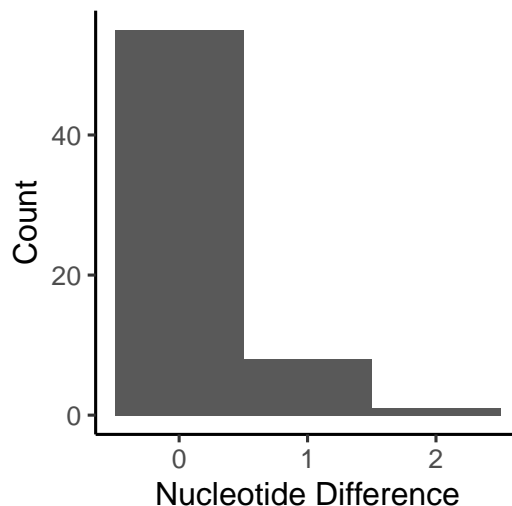
IGHV1-2*04

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



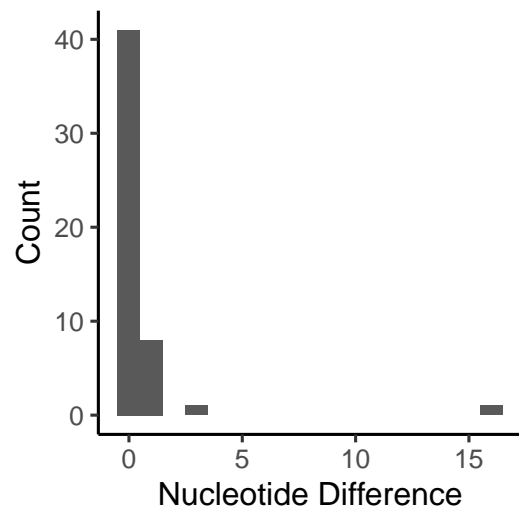
IGHV1-8*01

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



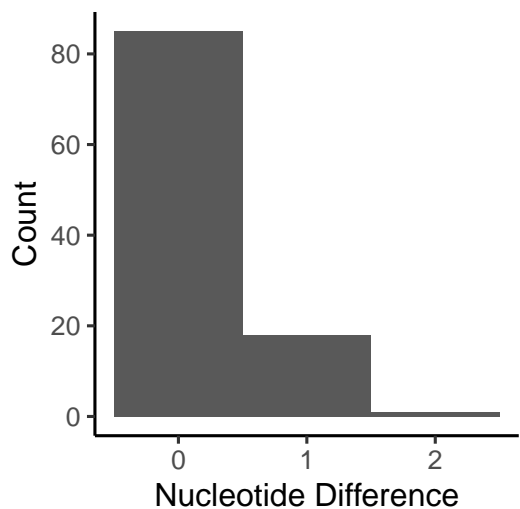
IGHV1-46*01

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



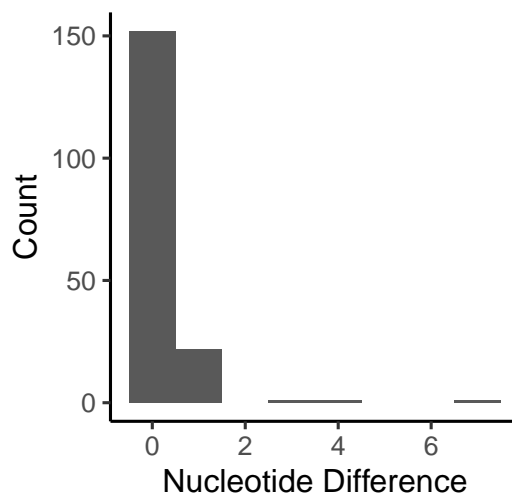
IGHV1-2*06

105 sequences assigned
85 (81%) exact matches, in which:
85 unique CDR3
5 unique J



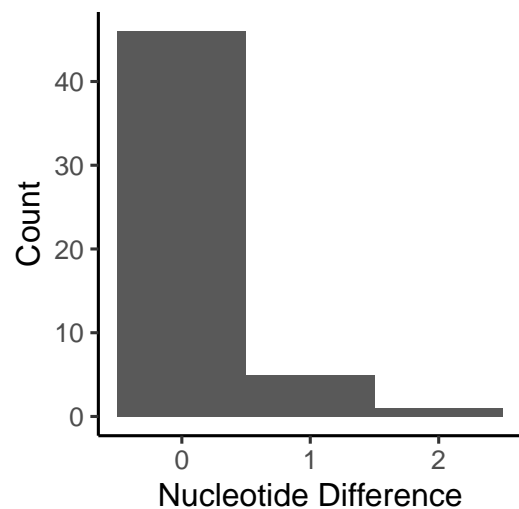
IGHV1-18*01

177 sequences assigned
152 (85.9%) exact matches, in which:
151 unique CDR3
4 unique J



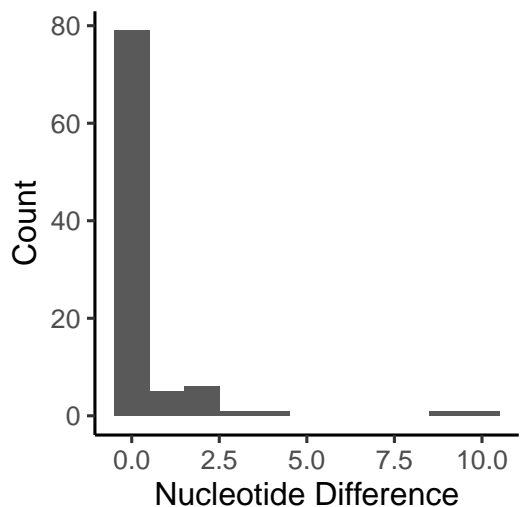
IGHV1-46*03

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



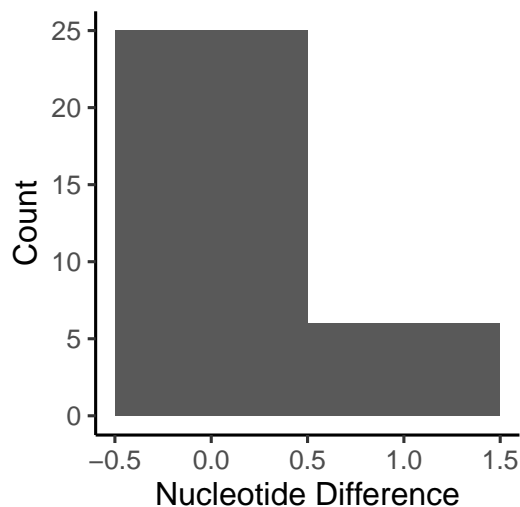
IGHV1-3*01

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



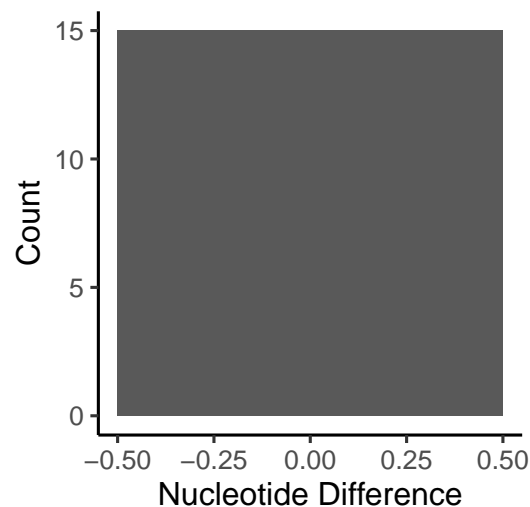
IGHV1-24*01

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



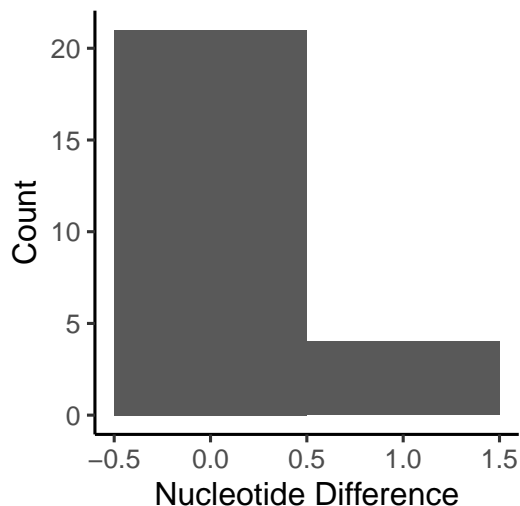
IGHV1-58*02

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



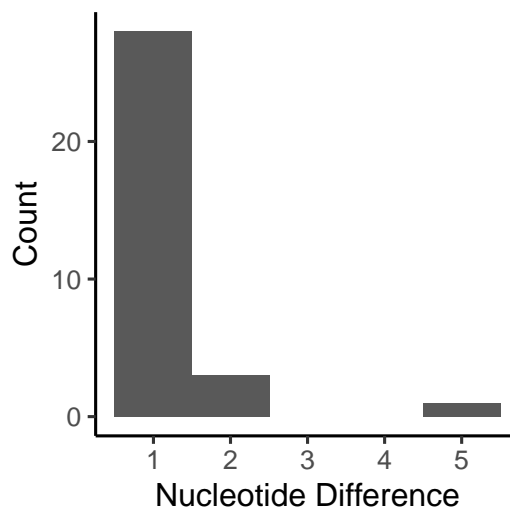
IGHV1-69-2*01

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



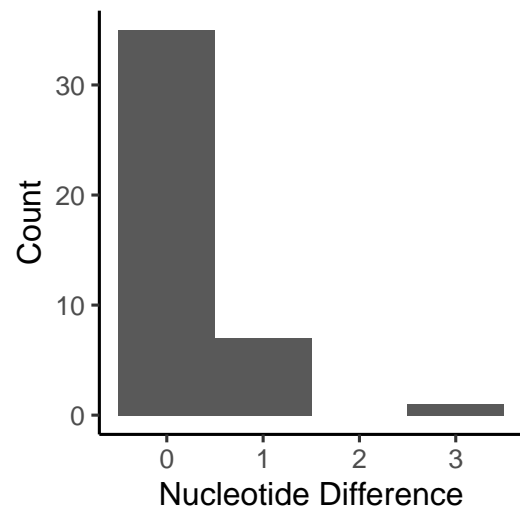
IGHV1-69*08

32 sequences assigned
No exact matches.



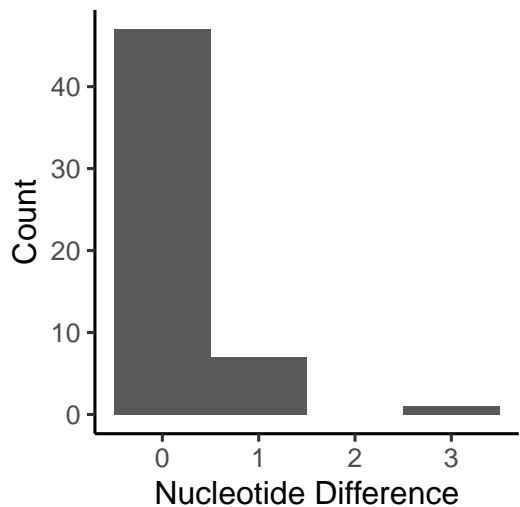
IGHV2-26*01

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



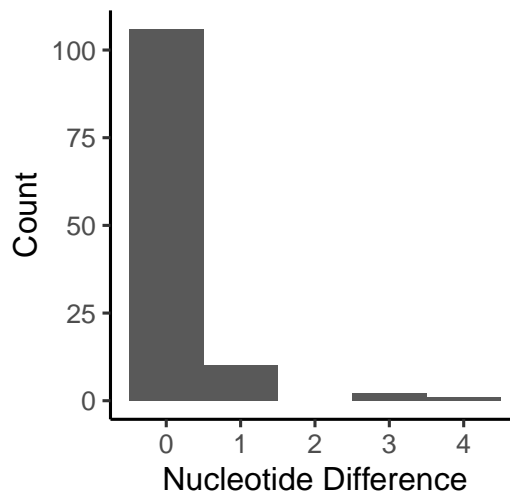
IGHV1-69*02

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



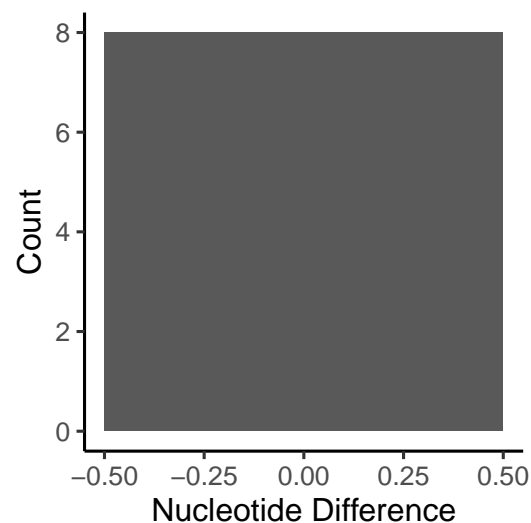
IGHV1-69*04_C184T

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



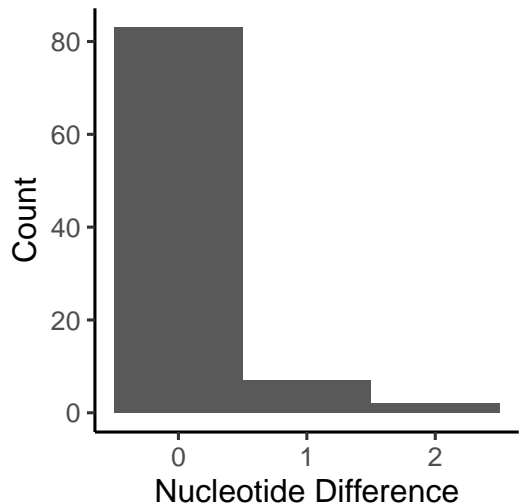
IGHV2-70*15

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



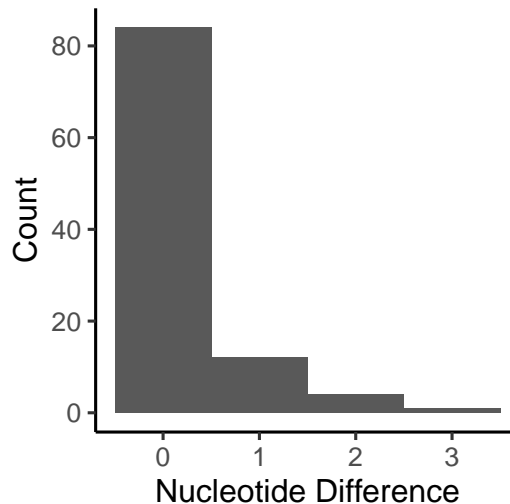
IGHV1-69*04

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



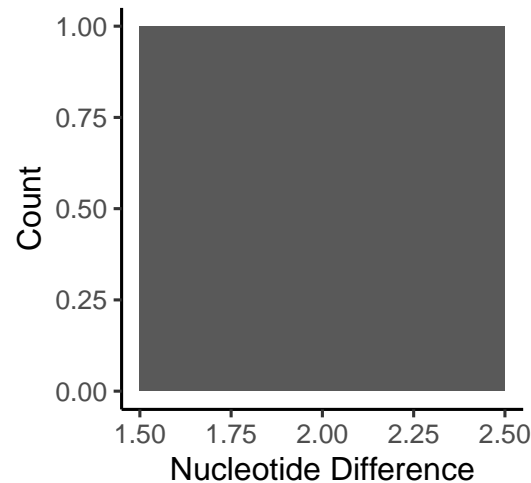
IGHV2-5*02

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



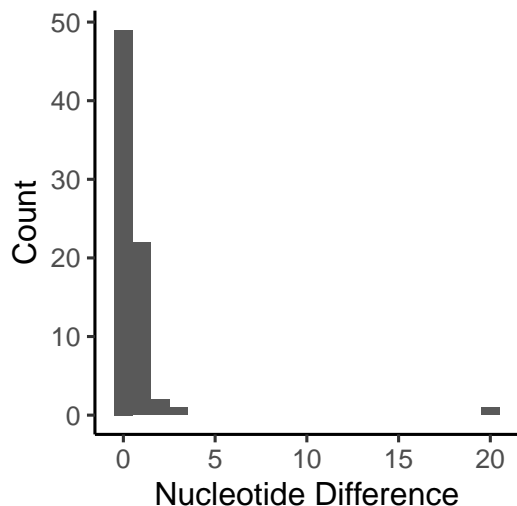
IGHV2-70D*14

1 sequences assigned
No exact matches.



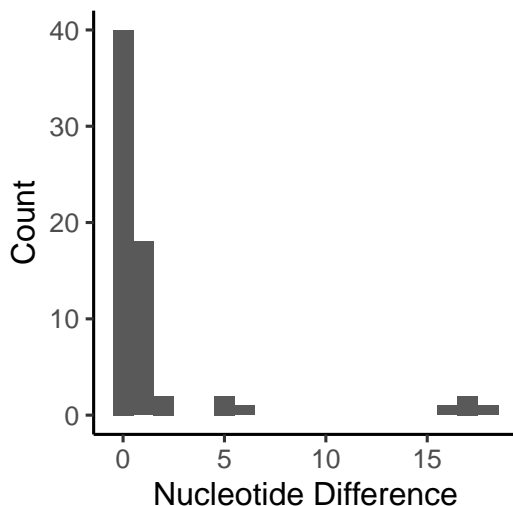
IGHV3-7*01

76 sequences assigned
49 (64.5%) exact matches, in which:
48 unique CDR3
6 unique J



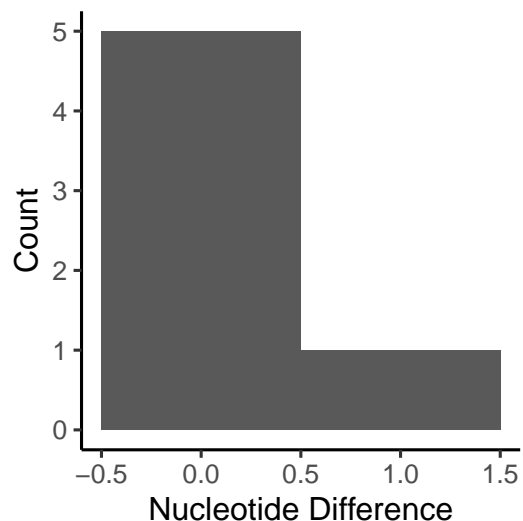
IGHV3-11*01

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



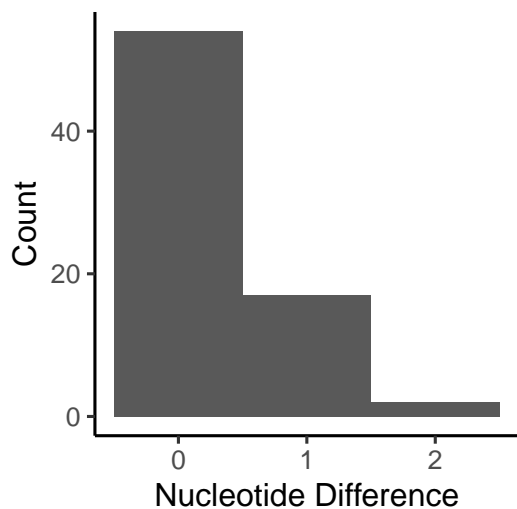
IGHV3-13*05

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



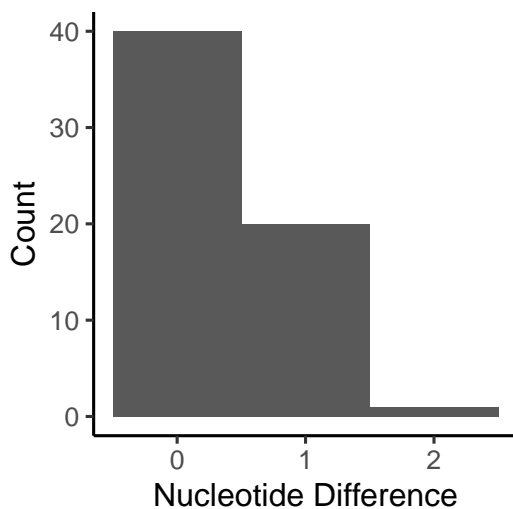
IGHV3-7*03

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



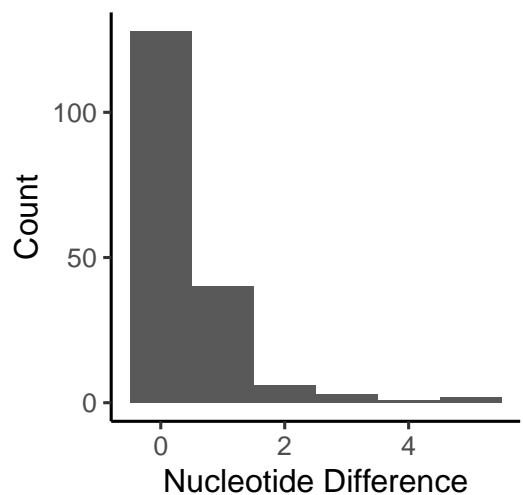
IGHV3-11*06

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



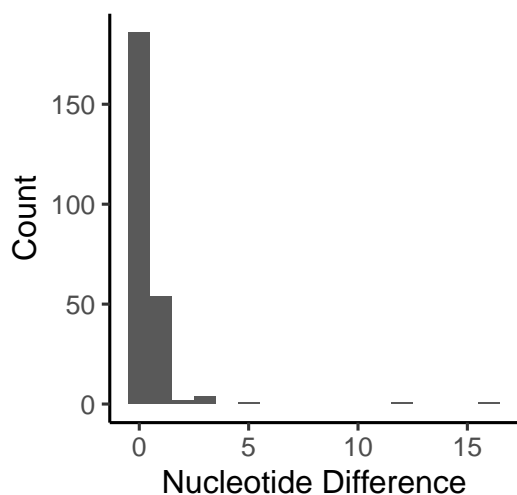
IGHV3-15*01

180 sequences assigned
128 (71.1%) exact matches, in which:
126 unique CDR3
6 unique J



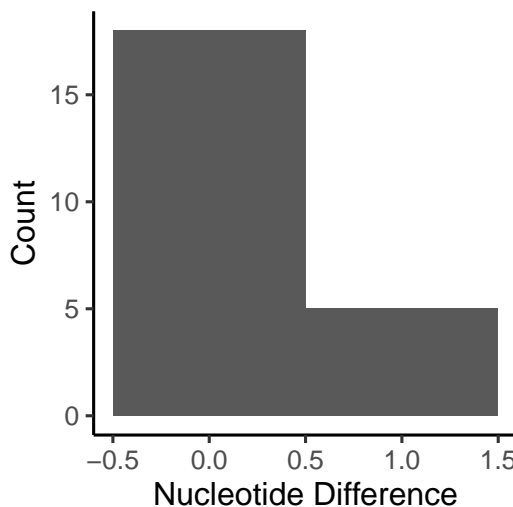
IGHV3-9*01

249 sequences assigned
186 (74.7%) exact matches, in which:
184 unique CDR3
6 unique J



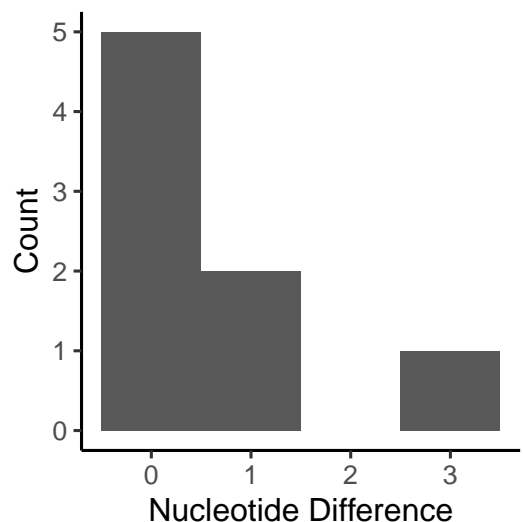
IGHV3-13*01

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



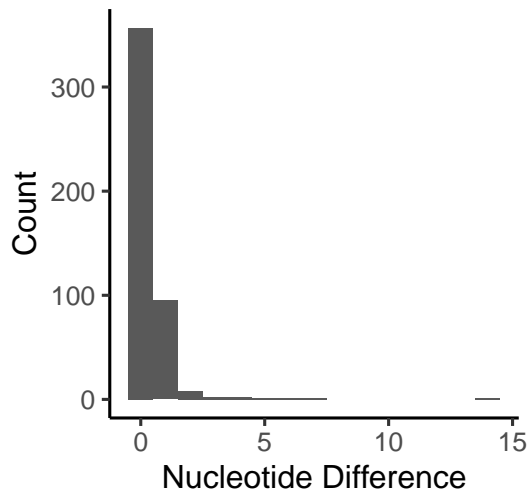
IGHV3-20*01

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



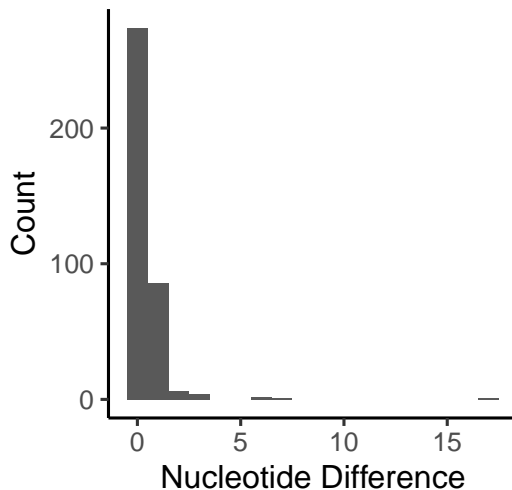
IGHV3-21*01

468 sequences assigned
357 (76.3%) exact matches, in which:
353 unique CDR3
6 unique J



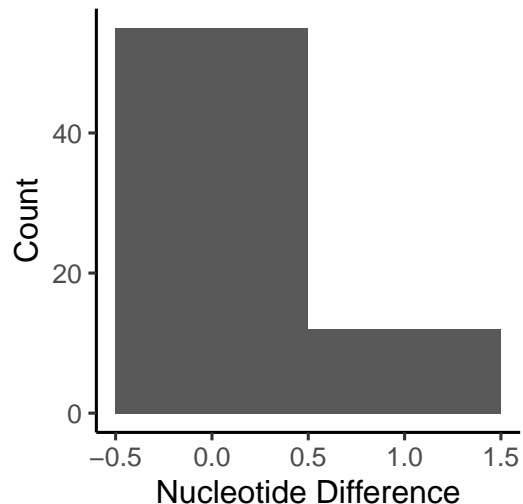
IGHV3-30*18

374 sequences assigned
274 (73.3%) exact matches, in which:
272 unique CDR3
6 unique J



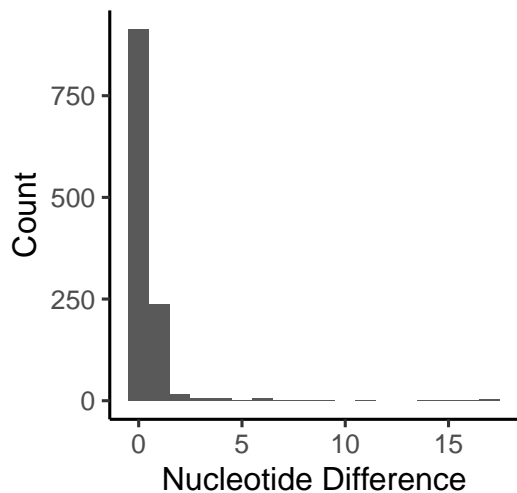
IGHV3-43*02

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



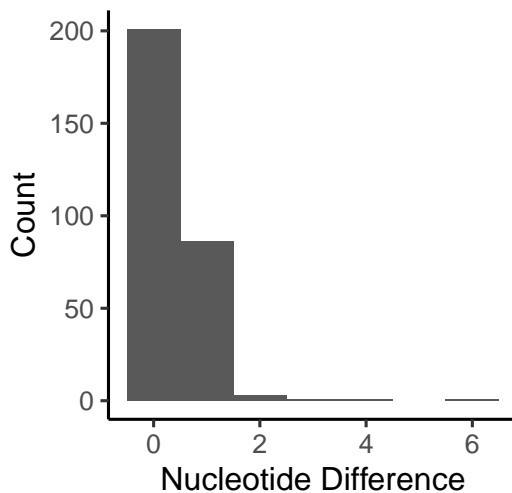
IGHV3-23*01

1202 sequences assigned
914 (76%) exact matches, in which:
907 unique CDR3
6 unique J



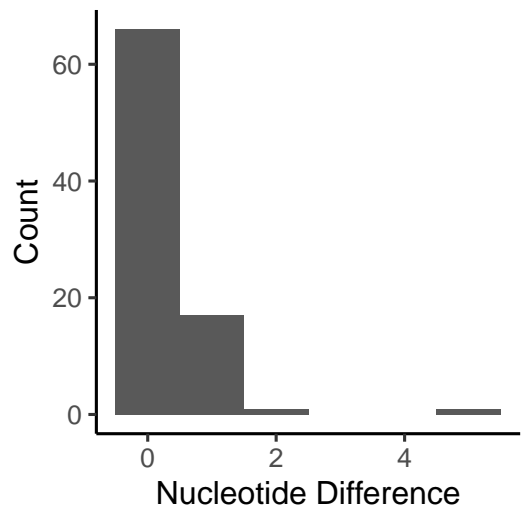
IGHV3-33*01

293 sequences assigned
201 (68.6%) exact matches, in which:
201 unique CDR3
5 unique J



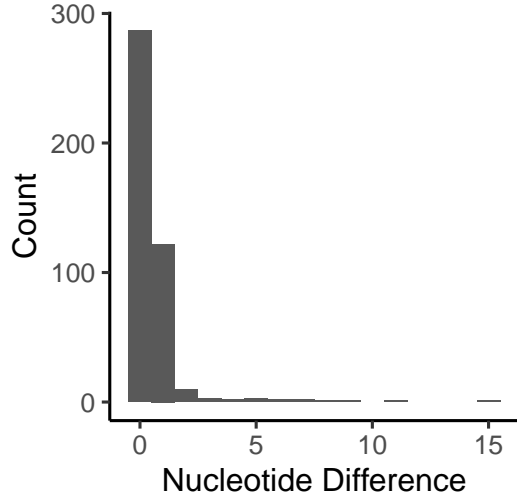
IGHV3-48*01

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



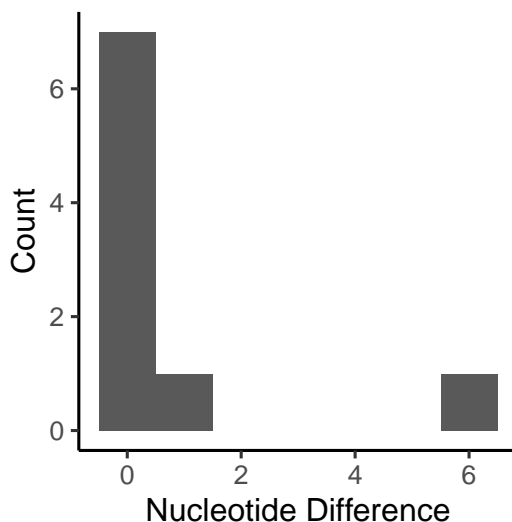
IGHV3-30-3*01

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



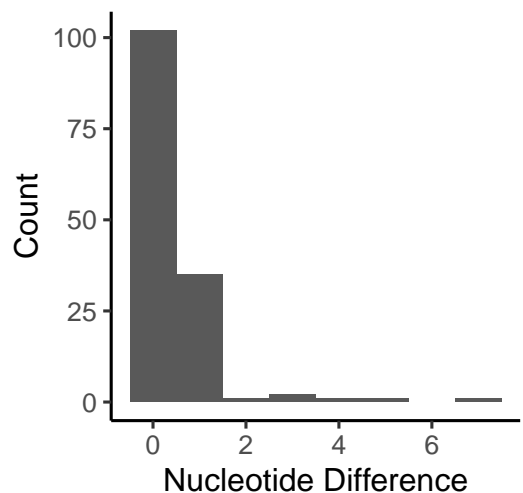
IGHV3-43*01

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



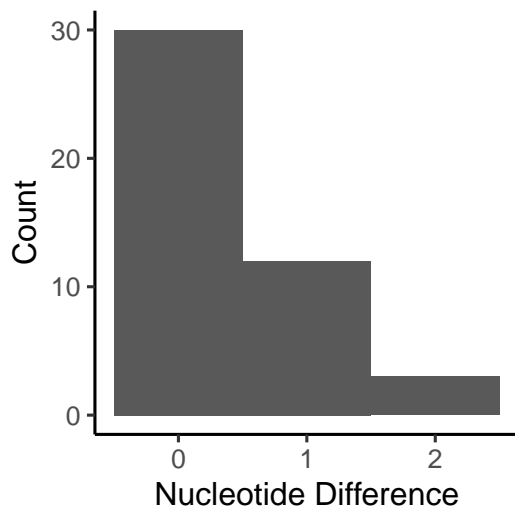
IGHV3-48*03

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



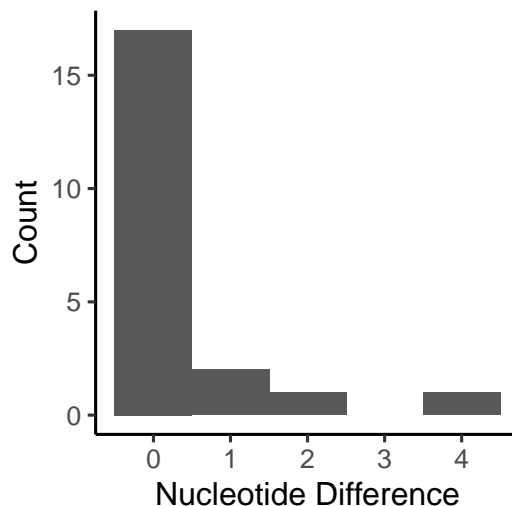
IGHV3-49*03

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



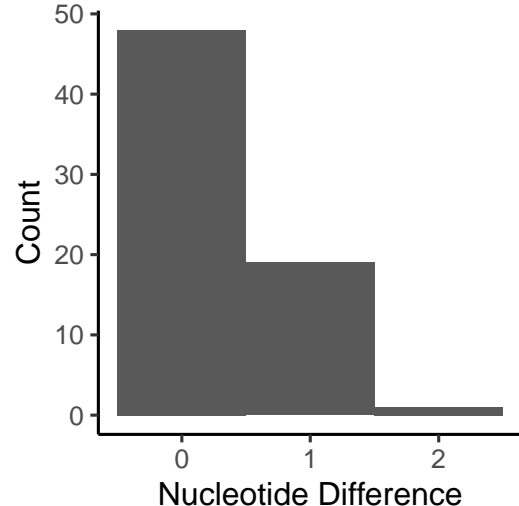
IGHV3-53*04

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



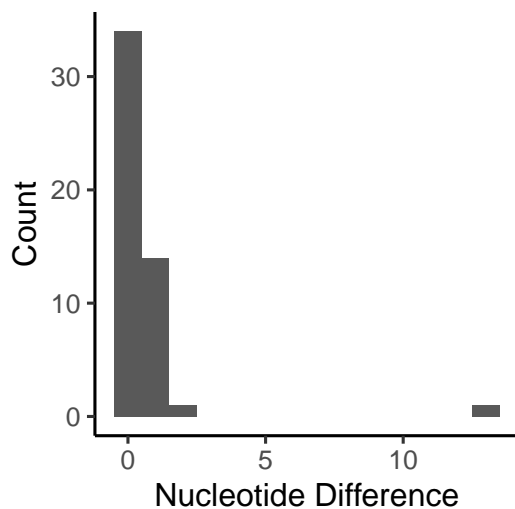
IGHV3-66*02

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



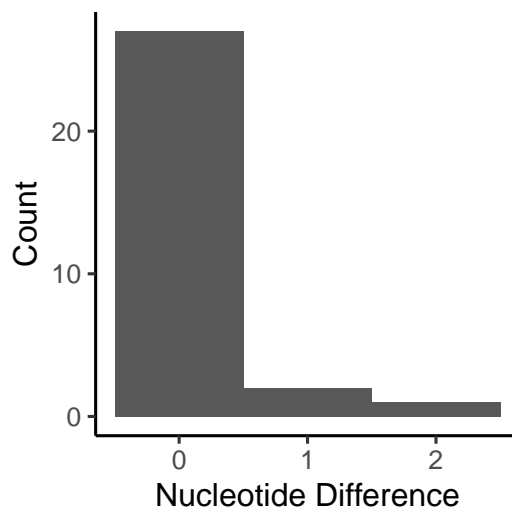
IGHV3-49*04

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



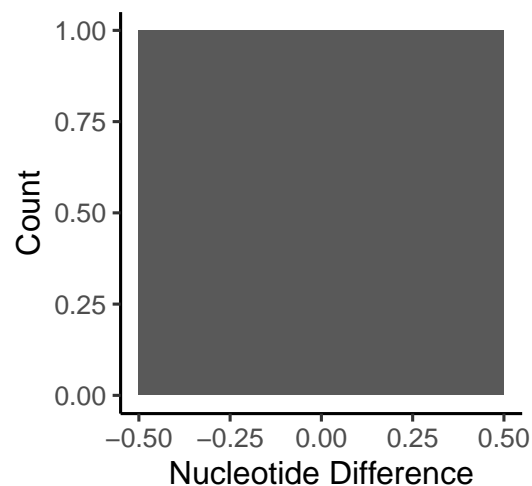
IGHV3-64*01

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



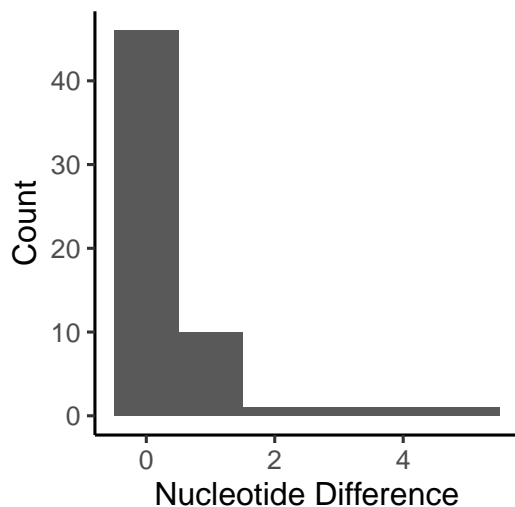
IGHV3-69-1*02

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



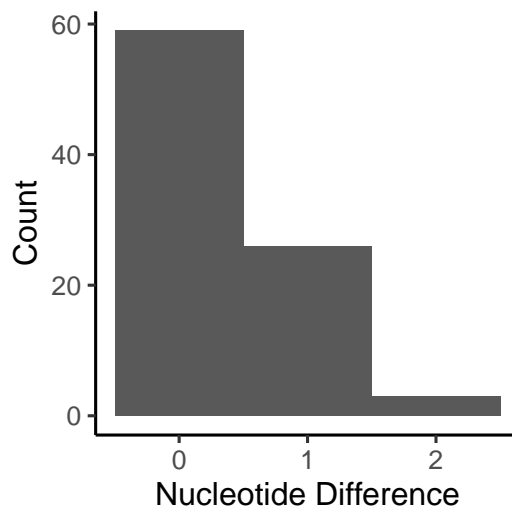
IGHV3-53*01

60 sequences assigned
46 (76.7%) exact matches, in which:
46 unique CDR3
5 unique J



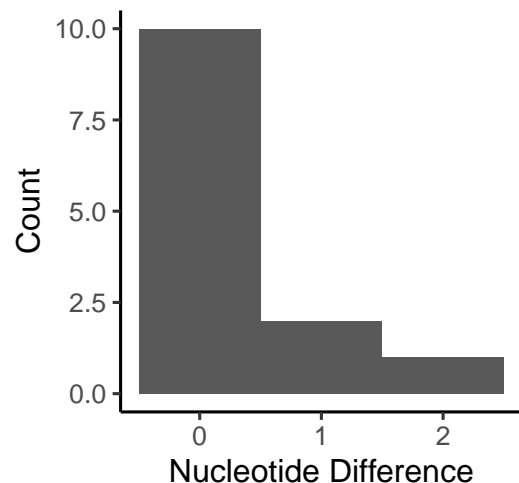
IGHV3-66*01

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



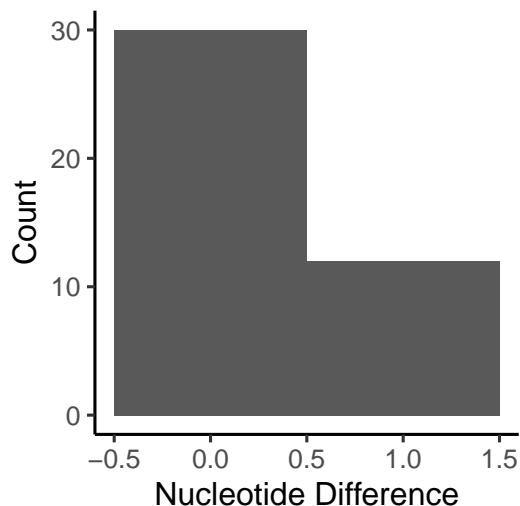
IGHV3-72*01

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



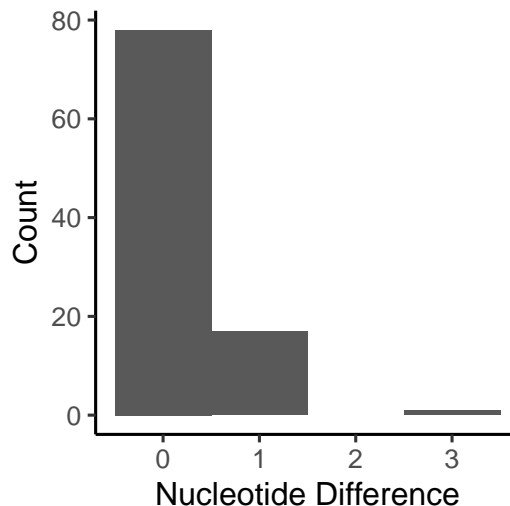
IGHV3-73*01

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



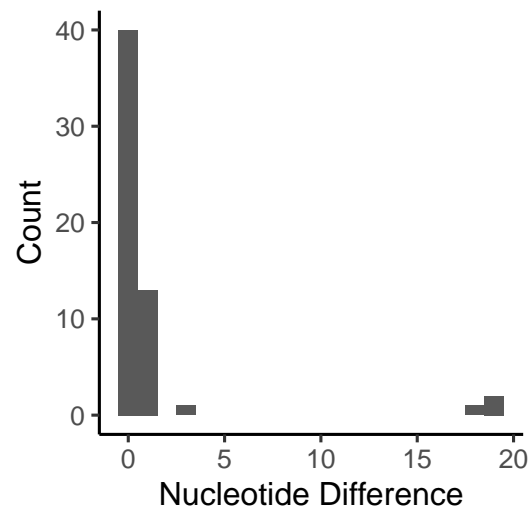
IGHV4-4*02

96 sequences assigned
78 (81.2%) exact matches, in which:
78 unique CDR3
5 unique J



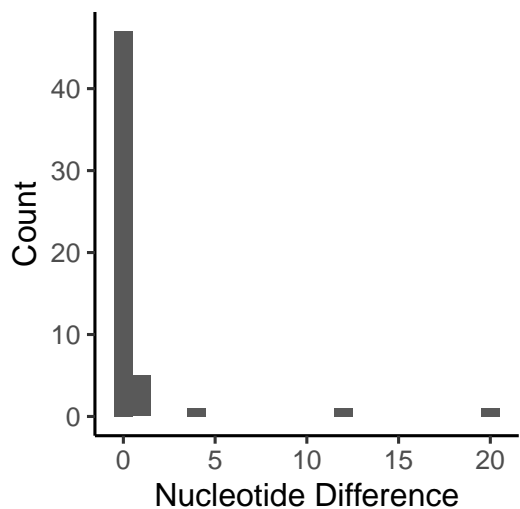
IGHV4-30-2*01

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



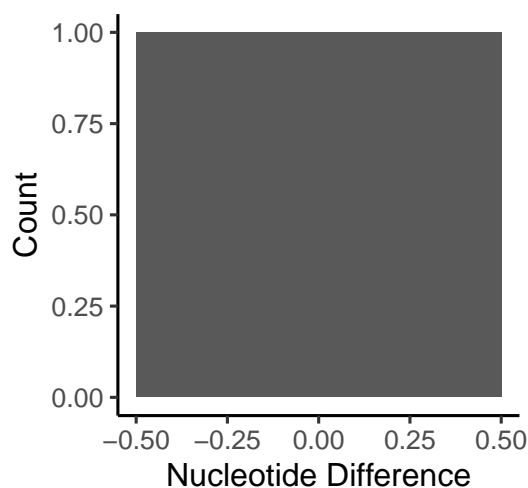
IGHV3-74*01

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



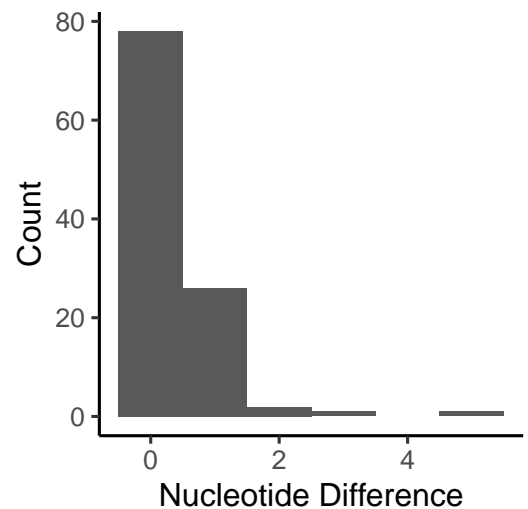
IGHV4-28*03

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



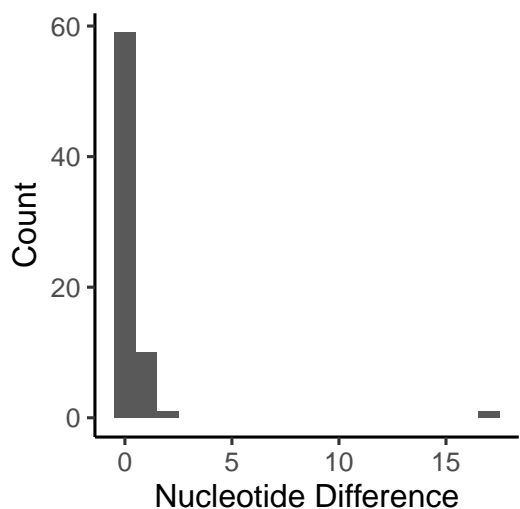
IGHV4-31*03

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



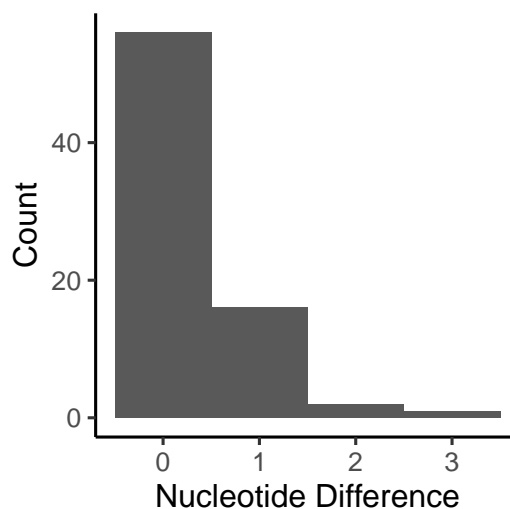
IGHV3-64D*06

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



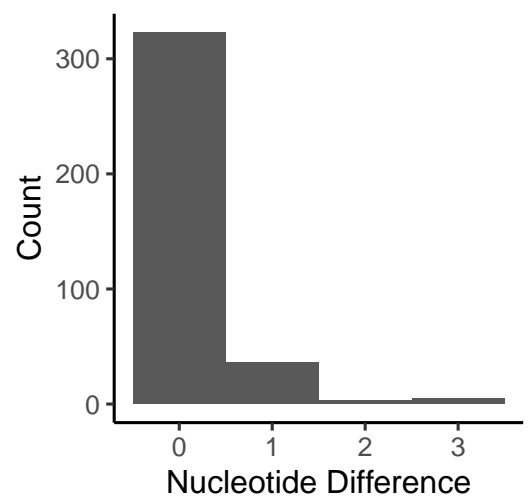
IGHV4-30-4*01

75 sequences assigned
56 (74.7%) exact matches, in which:
56 unique CDR3
4 unique J



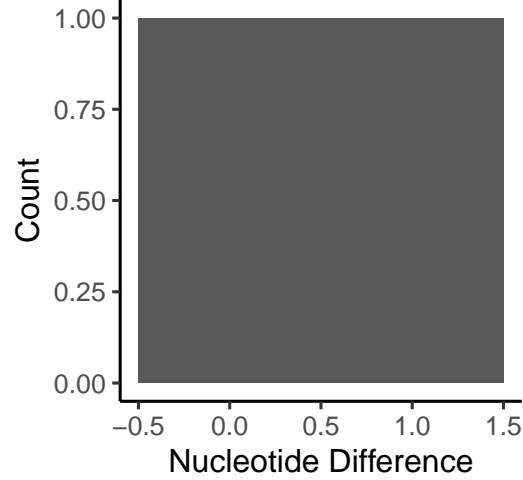
IGHV4-34*01

367 sequences assigned
323 (88%) exact matches, in which:
323 unique CDR3
5 unique J



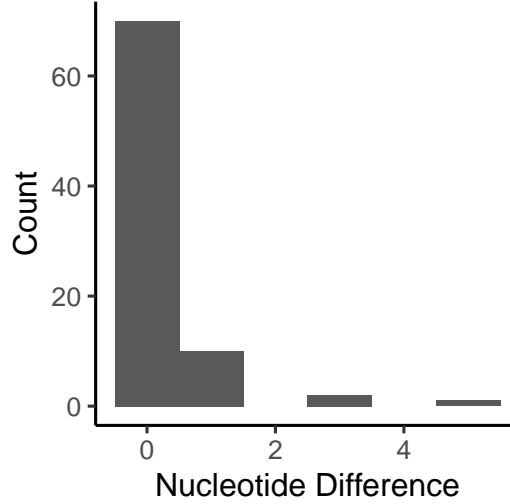
IGHV4-38-2*02

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



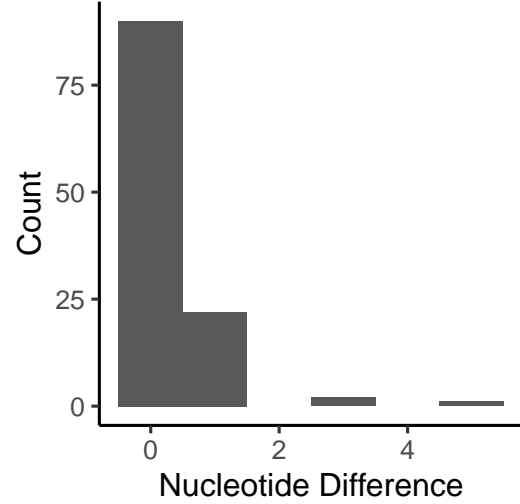
IGHV4-59*08

83 sequences assigned
70 (84.3%) exact matches, in which:
70 unique CDR3
6 unique J



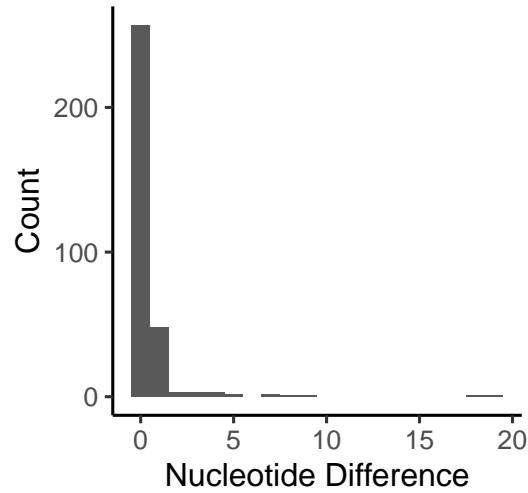
IGHV5-51*01

115 sequences assigned
90 (78.3%) exact matches, in which:
90 unique CDR3
5 unique J



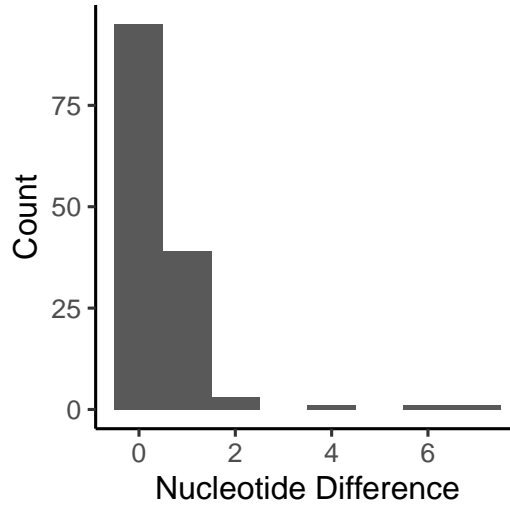
IGHV4-39*01

322 sequences assigned
257 (79.8%) exact matches, in which:
255 unique CDR3
6 unique J



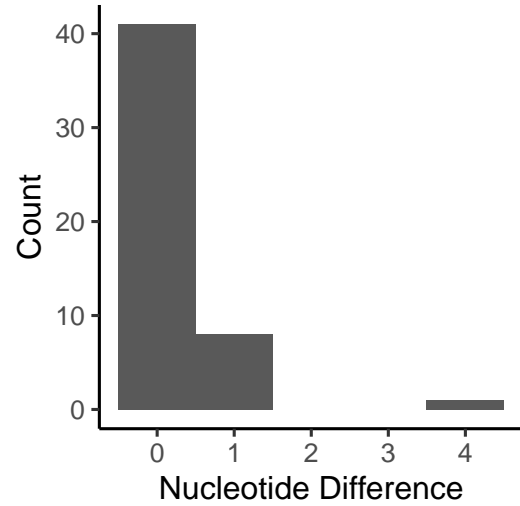
IGHV4-61*02

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



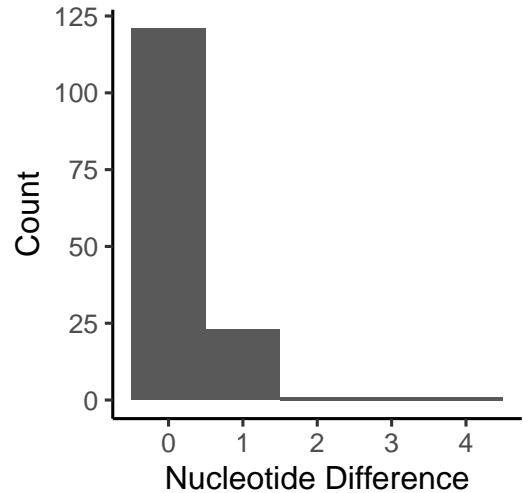
IGHV5-51*03

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



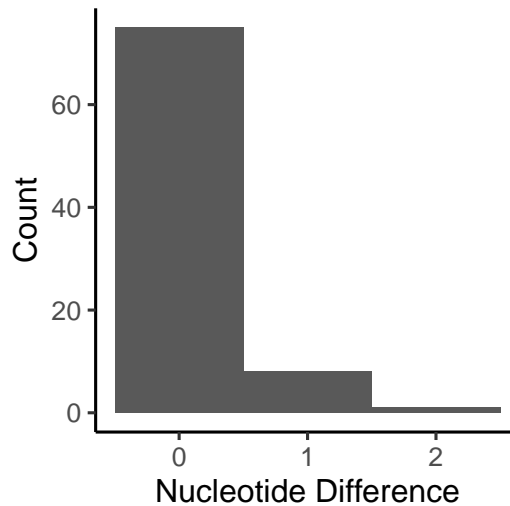
IGHV4-59*01

148 sequences assigned
121 (81.8%) exact matches, in which:
121 unique CDR3
5 unique J



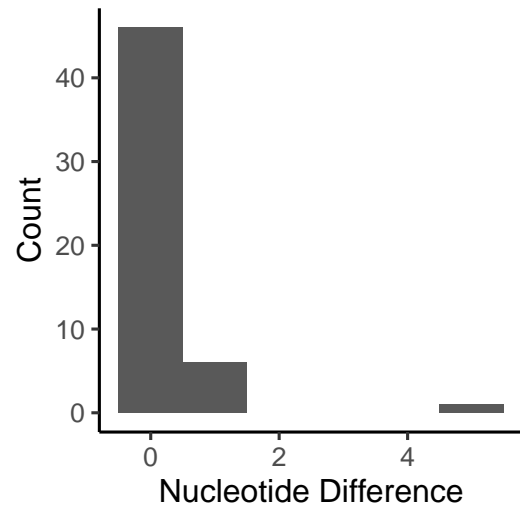
IGHV5-10-1*03

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



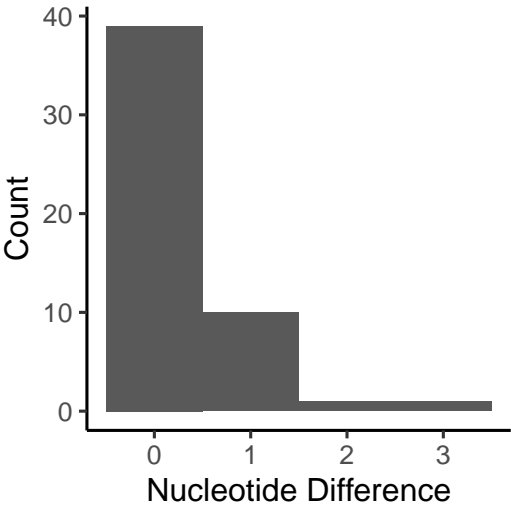
IGHV6-1*01

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



IGHV7-4-1*02

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



IGHV1-69*04_C184T

