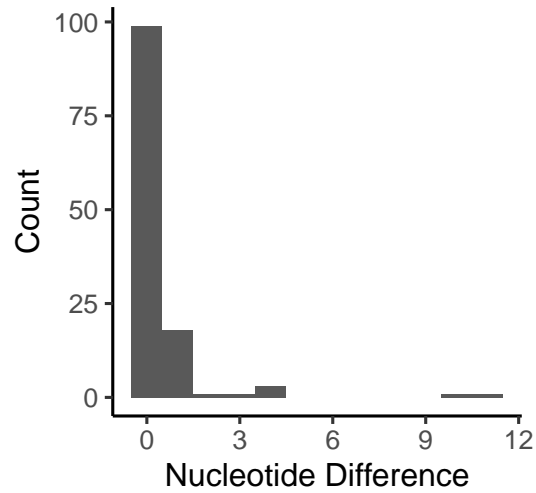


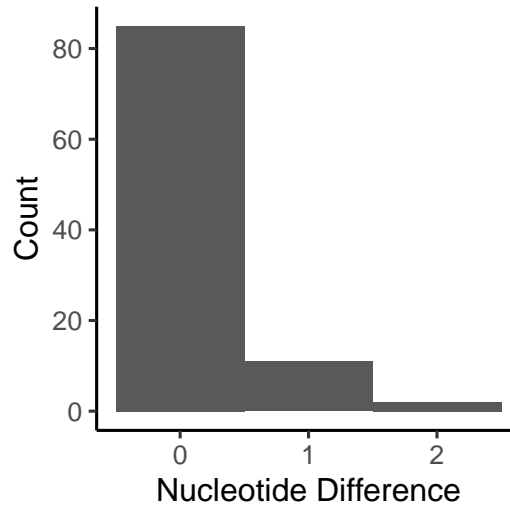
IGHV1-2*02

124 sequences assigned
99 (79.8%) exact matches, in which:
98 unique CDR3
6 unique J



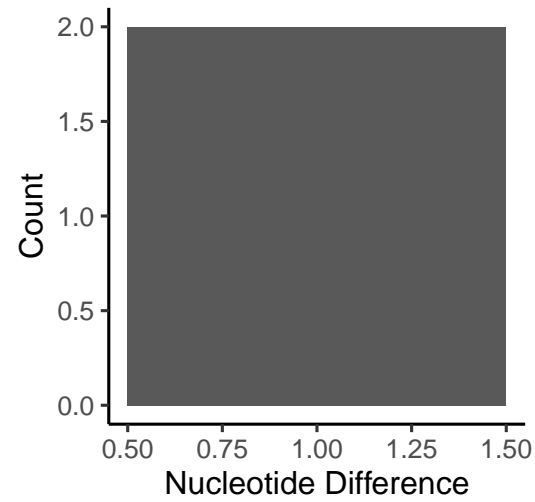
IGHV1-8*01

98 sequences assigned
85 (86.7%) exact matches, in which:
84 unique CDR3
6 unique J



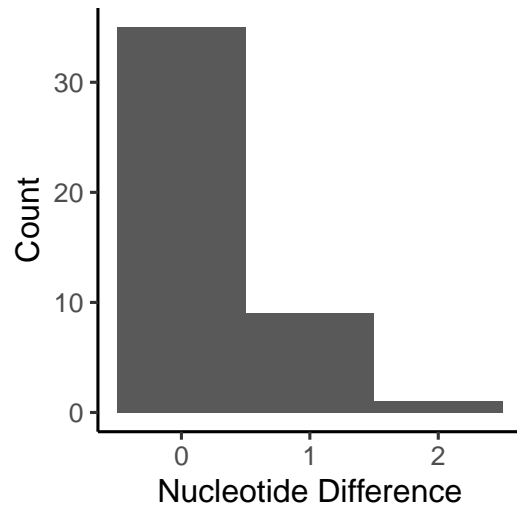
IGHV1-45*02

2 sequences assigned
No exact matches.



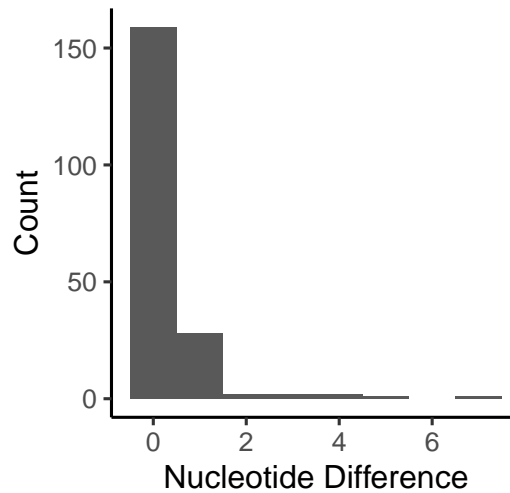
IGHV1-2*04

45 sequences assigned
35 (77.8%) exact matches, in which:
34 unique CDR3
4 unique J



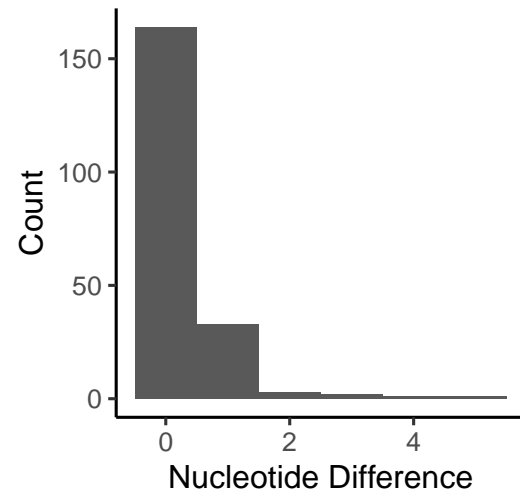
IGHV1-18*01

195 sequences assigned
159 (81.5%) exact matches, in which:
156 unique CDR3
6 unique J



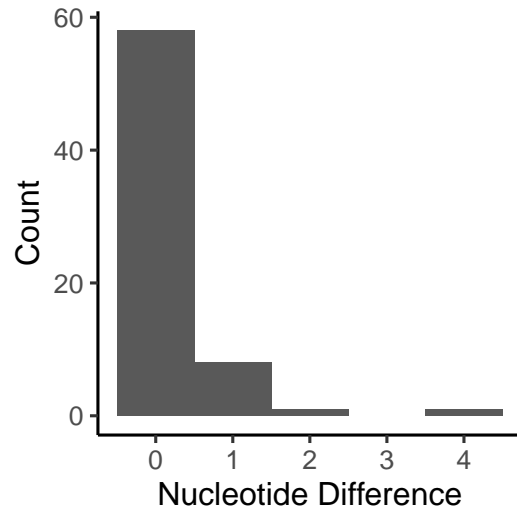
IGHV1-46*01

204 sequences assigned
164 (80.4%) exact matches, in which:
164 unique CDR3
6 unique J



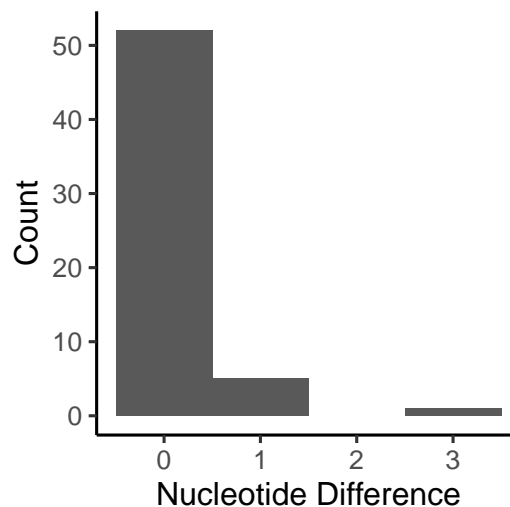
IGHV1-3*01

68 sequences assigned
58 (85.3%) exact matches, in which:
58 unique CDR3
4 unique J



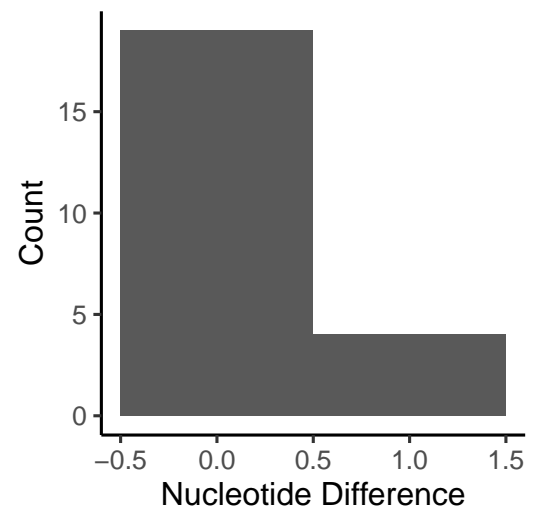
IGHV1-24*01

58 sequences assigned
52 (89.7%) exact matches, in which:
51 unique CDR3
6 unique J



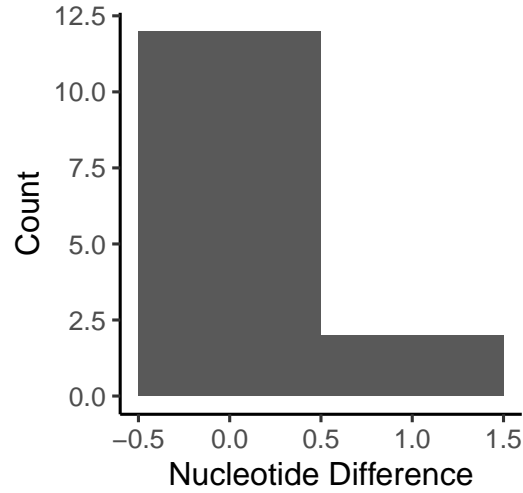
IGHV1-58*01

23 sequences assigned
19 (82.6%) exact matches, in which:
19 unique CDR3
6 unique J



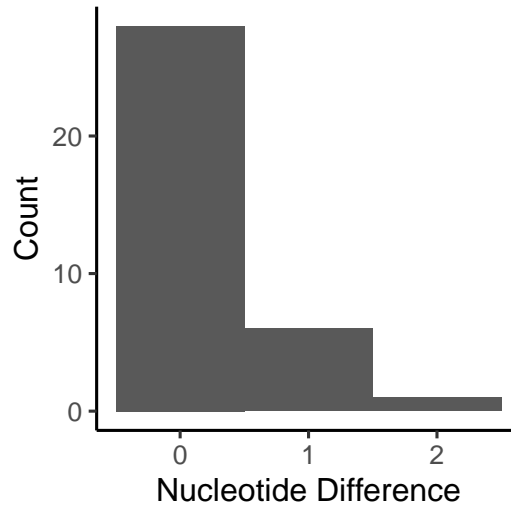
IGHV1-69-2*01

14 sequences assigned
12 (85.7%) exact matches, in which:
11 unique CDR3
4 unique J



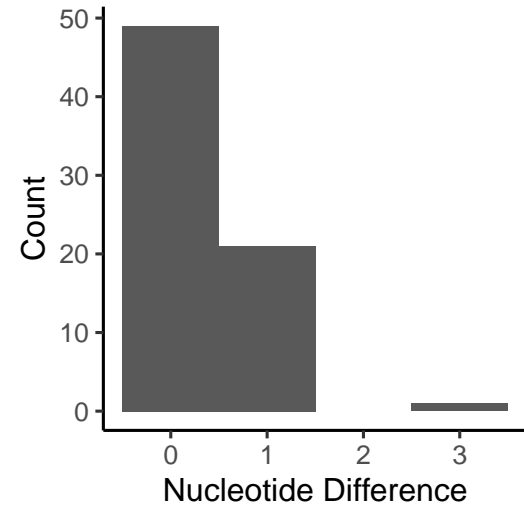
IGHV2-26*01

35 sequences assigned
28 (80%) exact matches, in which:
28 unique CDR3
5 unique J



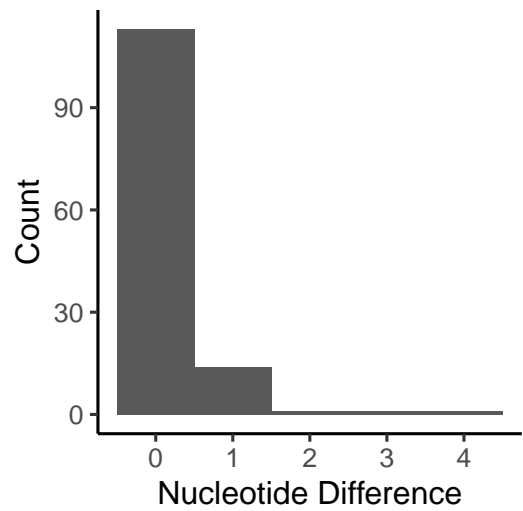
IGHV3-7*03

72 sequences assigned
49 (68.1%) exact matches, in which:
49 unique CDR3
6 unique J



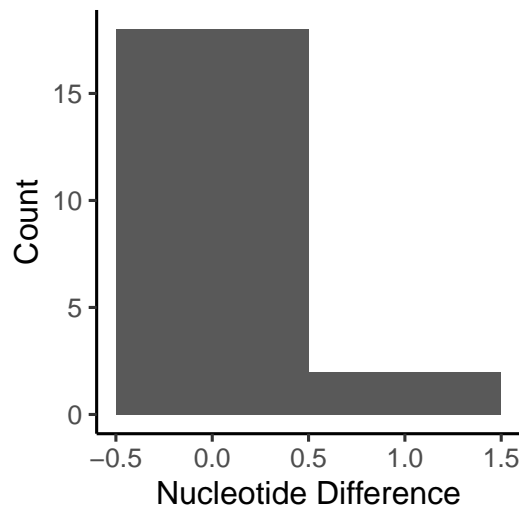
IGHV1-69*06

130 sequences assigned
113 (86.9%) exact matches, in which:
109 unique CDR3
6 unique J



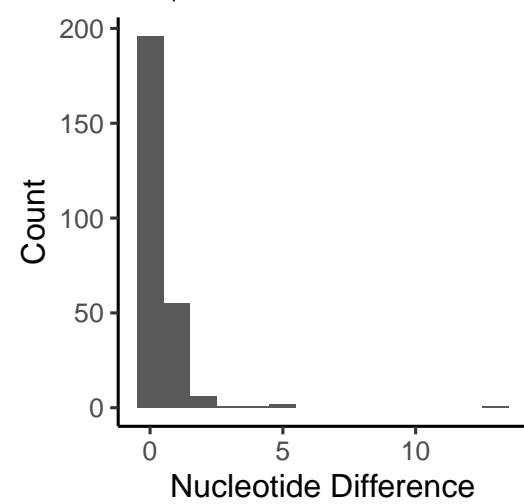
IGHV2-70*01

20 sequences assigned
18 (90%) exact matches, in which:
17 unique CDR3
4 unique J



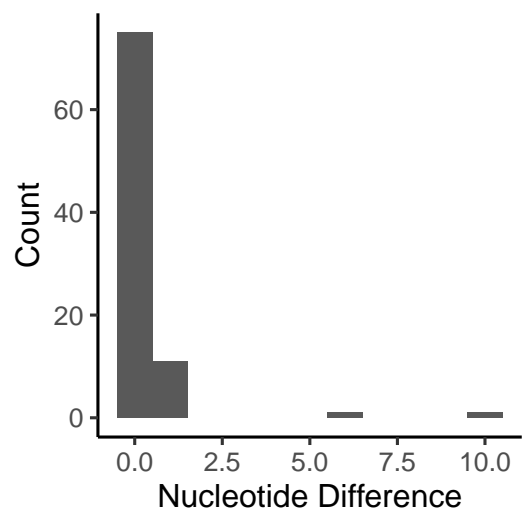
IGHV3-9*01

262 sequences assigned
196 (74.8%) exact matches, in which:
194 unique CDR3
6 unique J



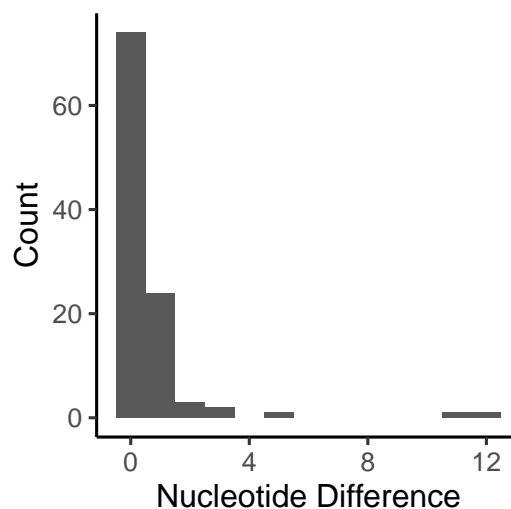
IGHV2-5*02

88 sequences assigned
75 (85.2%) exact matches, in which:
74 unique CDR3
6 unique J



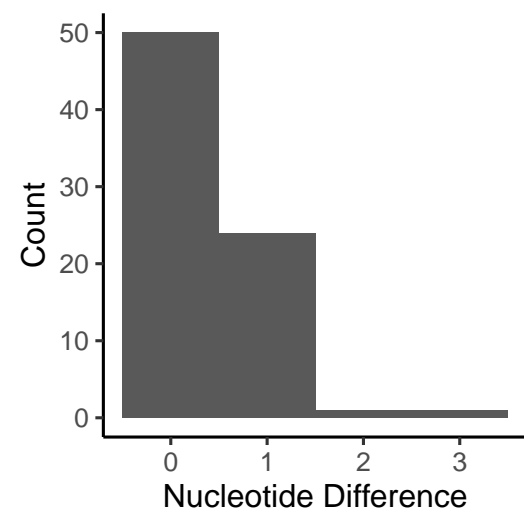
IGHV3-7*01

108 sequences assigned
74 (68.5%) exact matches, in which:
72 unique CDR3
6 unique J



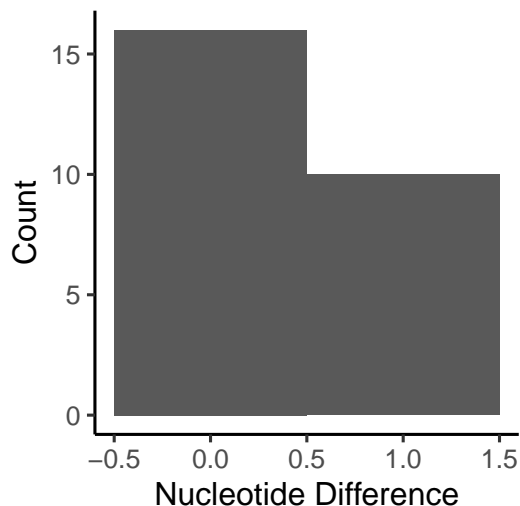
IGHV3-11*01

76 sequences assigned
50 (65.8%) exact matches, in which:
50 unique CDR3
5 unique J



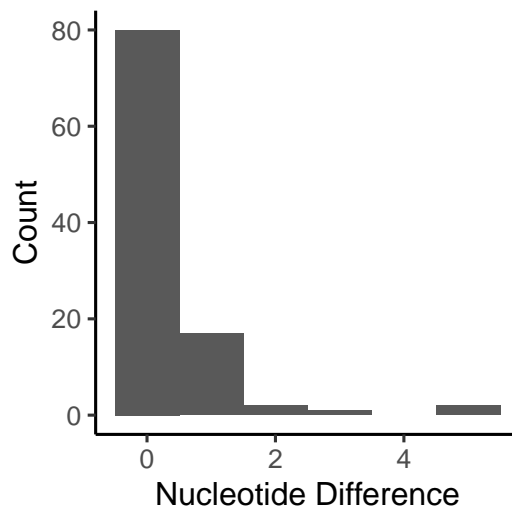
IGHV3-11*06

28 sequences assigned
16 (57.1%) exact matches, in which:
16 unique CDR3
4 unique J



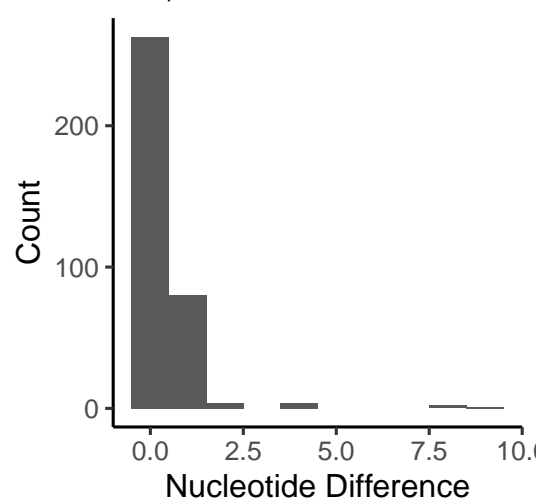
IGHV3-15*07

102 sequences assigned
80 (78.4%) exact matches, in which:
79 unique CDR3
5 unique J



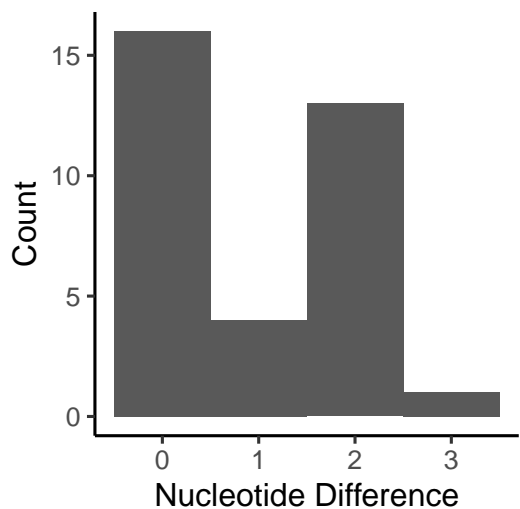
IGHV3-21*01

354 sequences assigned
263 (74.3%) exact matches, in which:
256 unique CDR3
6 unique J



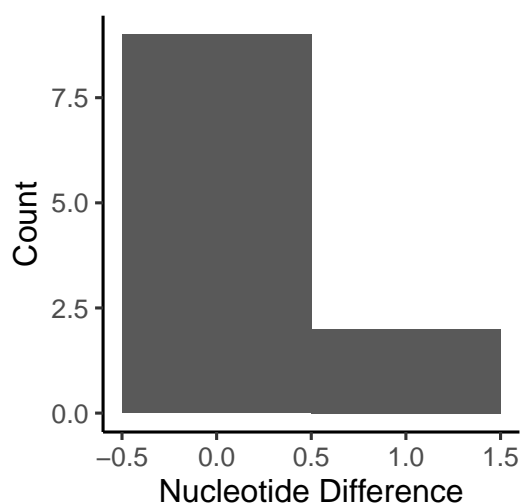
IGHV3-13*01

34 sequences assigned
16 (47.1%) exact matches, in which:
16 unique CDR3
3 unique J



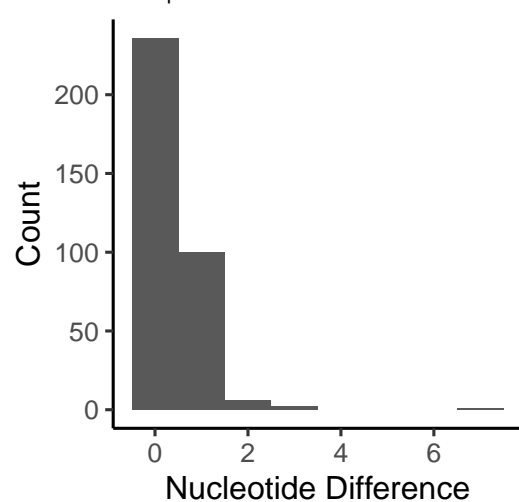
IGHV3-20*01

11 sequences assigned
9 (81.8%) exact matches, in which:
8 unique CDR3
5 unique J



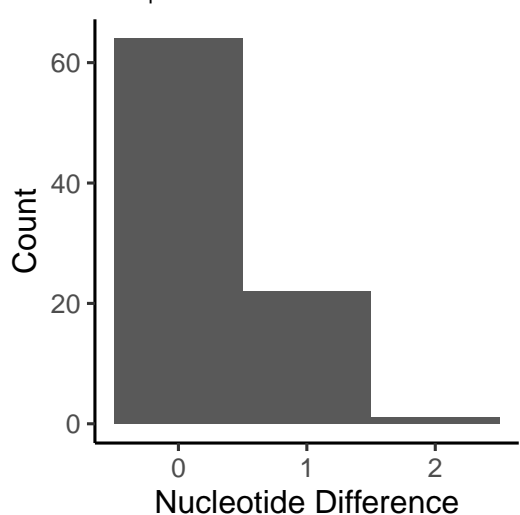
IGHV3-33*01

345 sequences assigned
236 (68.4%) exact matches, in which:
231 unique CDR3
6 unique J



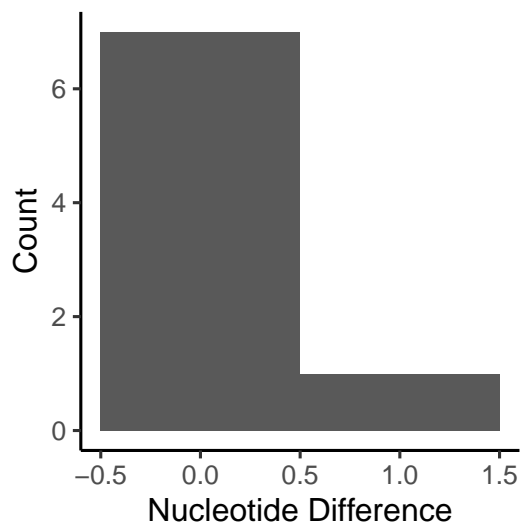
IGHV3-15*01

87 sequences assigned
64 (73.6%) exact matches, in which:
63 unique CDR3
4 unique J



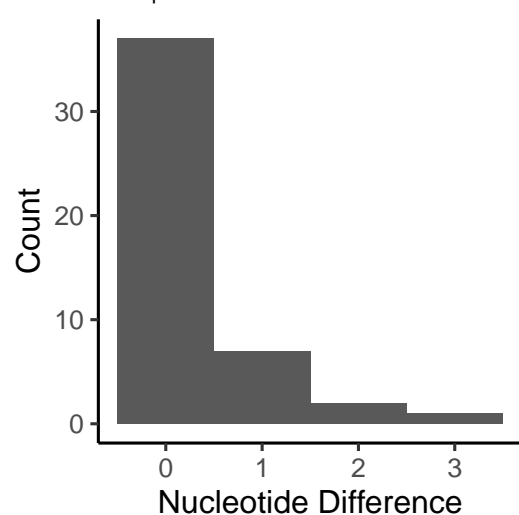
IGHV3-20*04

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
3 unique J



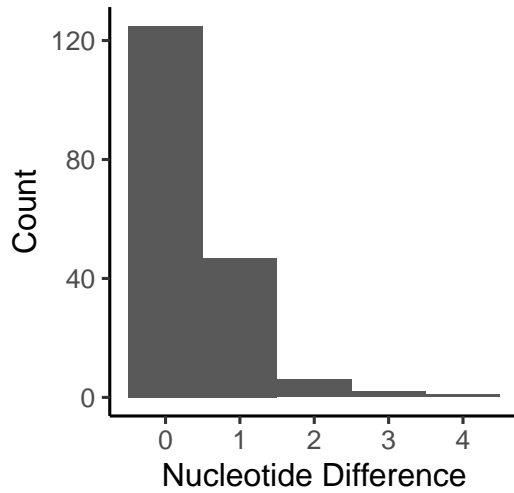
IGHV3-43*01

47 sequences assigned
37 (78.7%) exact matches, in which:
37 unique CDR3
3 unique J



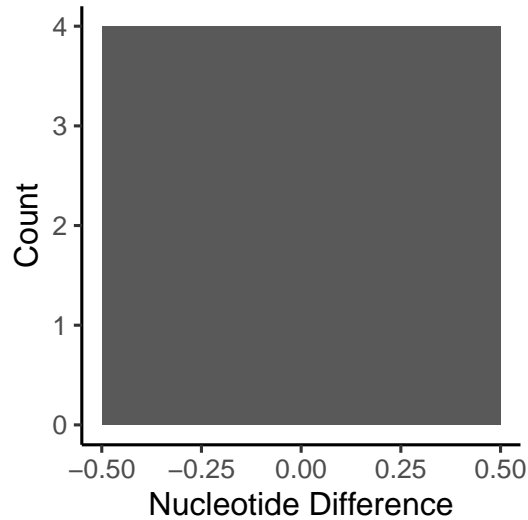
IGHV3-48*02

181 sequences assigned
125 (69.1%) exact matches, in which:
124 unique CDR3
5 unique J



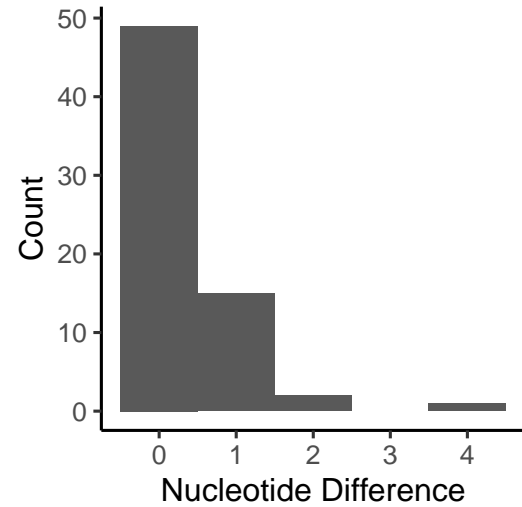
IGHV3-64*02

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



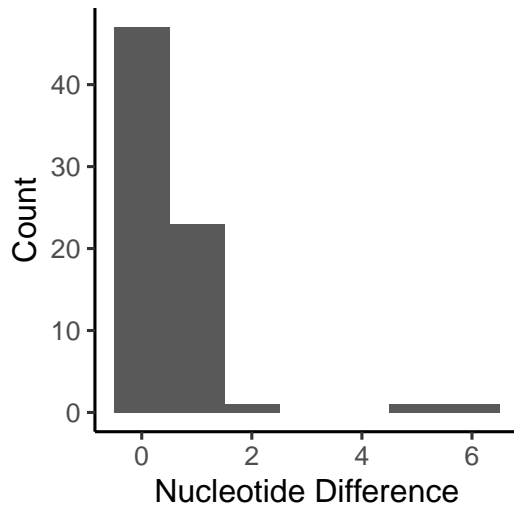
IGHV3-73*02

67 sequences assigned
49 (73.1%) exact matches, in which:
48 unique CDR3
4 unique J



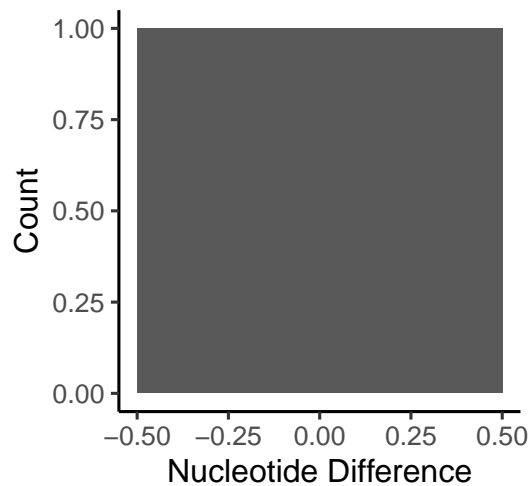
IGHV3-49*05

73 sequences assigned
47 (64.4%) exact matches, in which:
46 unique CDR3
5 unique J



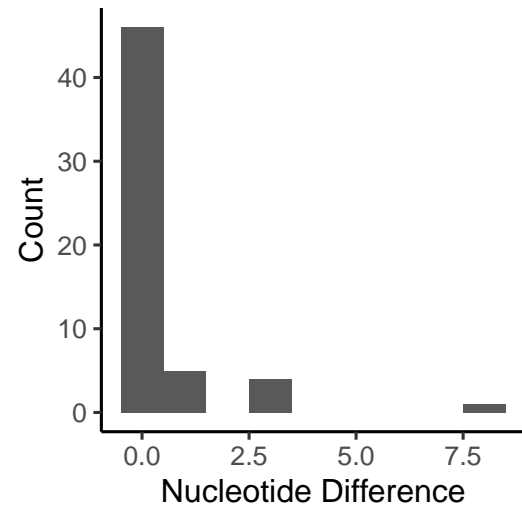
IGHV3-66*03

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



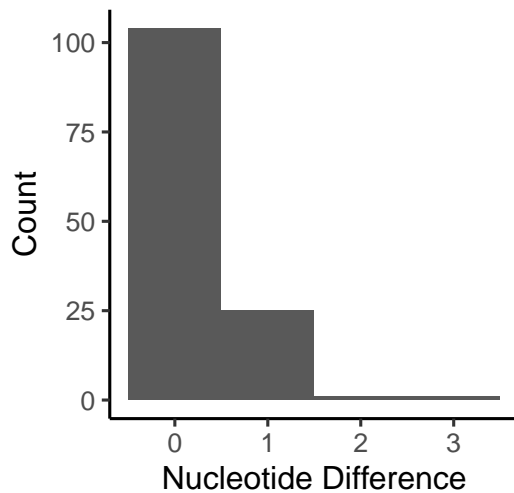
IGHV3-74*01

56 sequences assigned
46 (82.1%) exact matches, in which:
46 unique CDR3
5 unique J



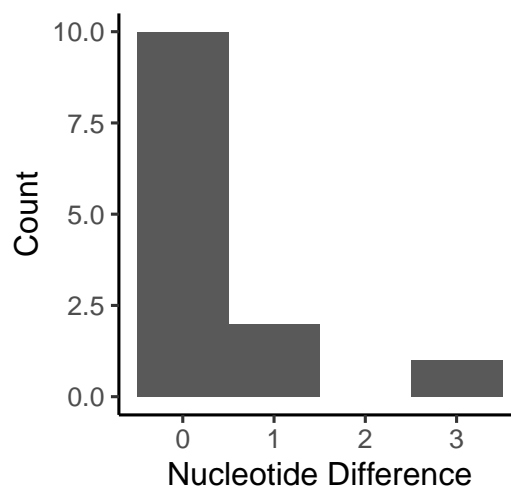
IGHV3-53*01

131 sequences assigned
104 (79.4%) exact matches, in which:
103 unique CDR3
6 unique J



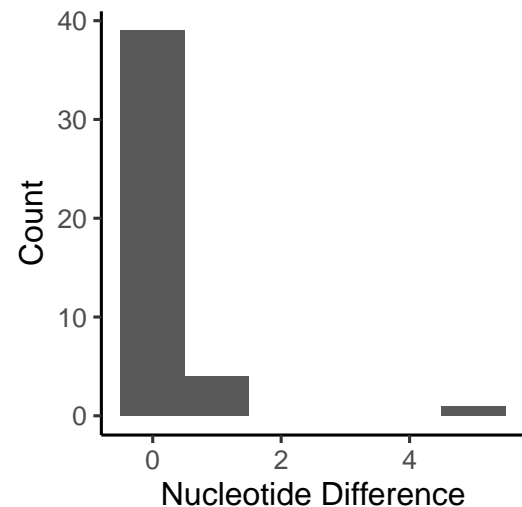
IGHV3-72*01

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



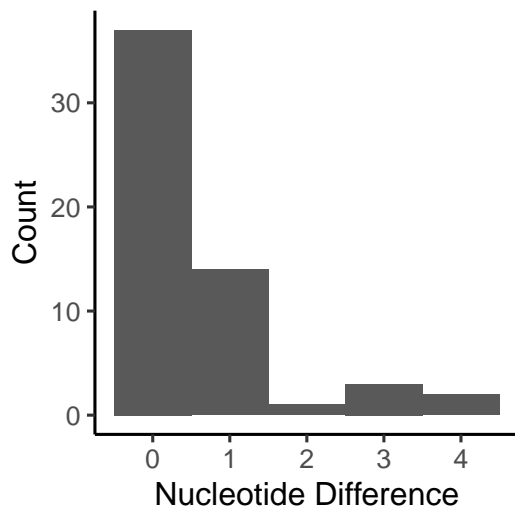
IGHV3-64D*06

44 sequences assigned
39 (88.6%) exact matches, in which:
38 unique CDR3
6 unique J



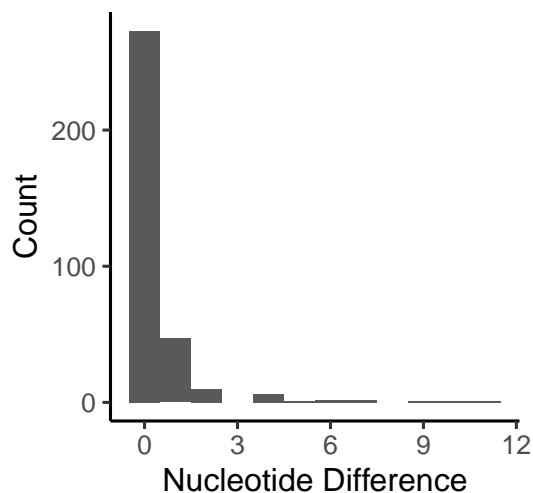
IGHV4-4*02

57 sequences assigned
37 (64.9%) exact matches, in which:
37 unique CDR3
4 unique J



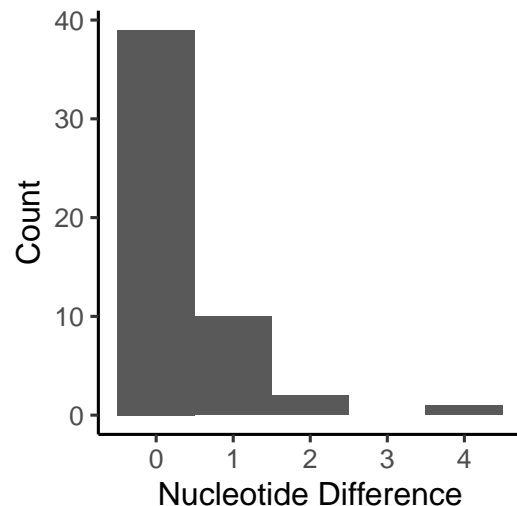
IGHV4-34*01

344 sequences assigned
273 (79.4%) exact matches, in which:
266 unique CDR3
6 unique J



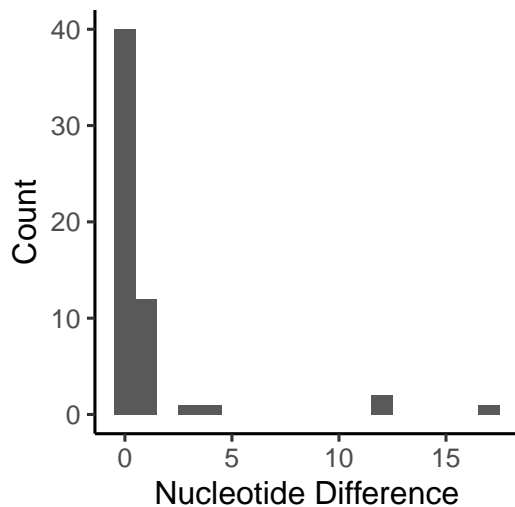
IGHV4-61*01

52 sequences assigned
39 (75%) exact matches, in which:
39 unique CDR3
5 unique J



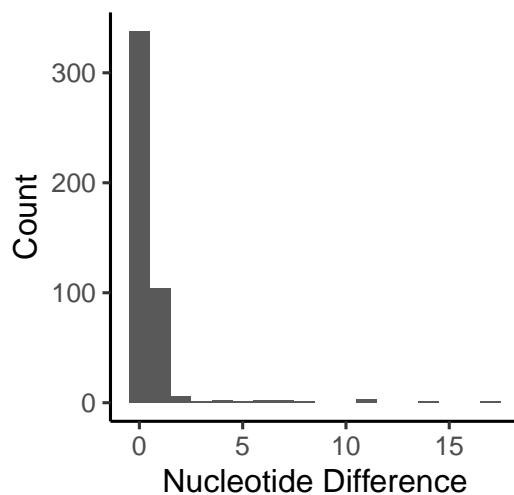
IGHV4-4*07

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



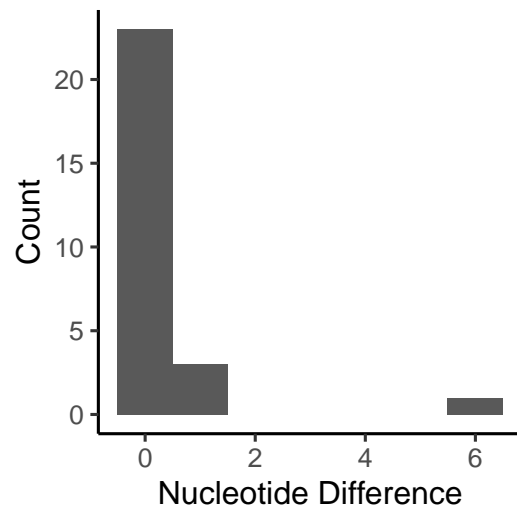
IGHV4-39*01

462 sequences assigned
338 (73.2%) exact matches, in which:
336 unique CDR3
6 unique J



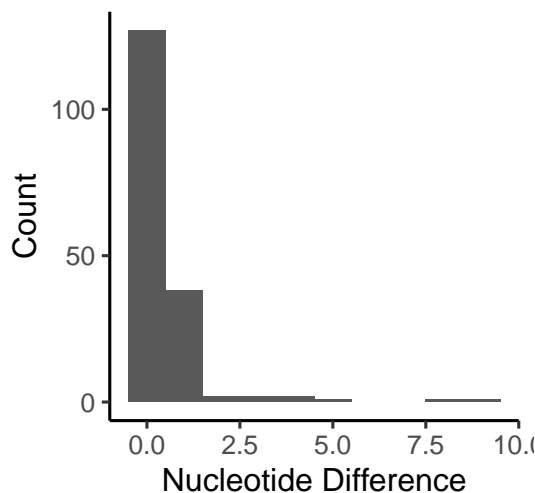
IGHV5-10-1*03

27 sequences assigned
23 (85.2%) exact matches, in which:
22 unique CDR3
4 unique J



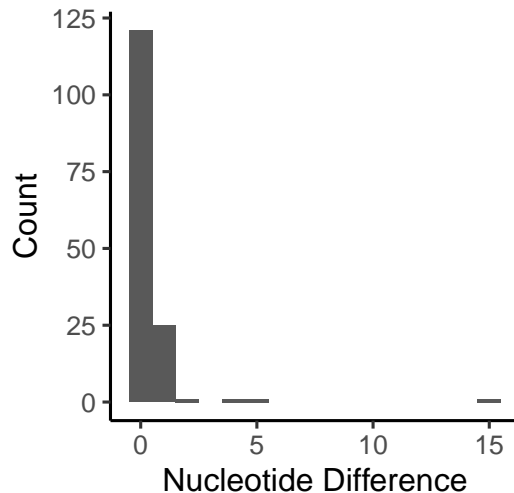
IGHV4-31*03

174 sequences assigned
127 (73%) exact matches, in which:
126 unique CDR3
6 unique J



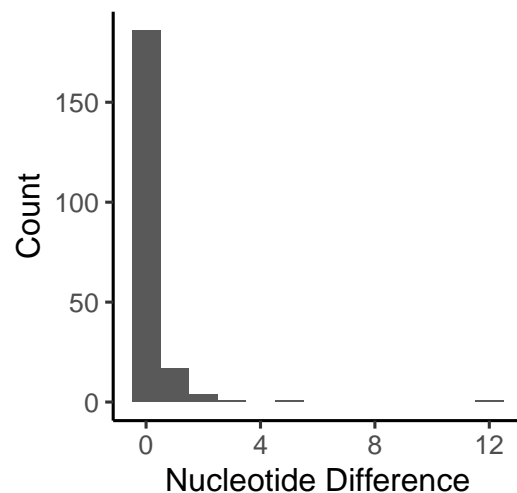
IGHV4-59*01

150 sequences assigned
121 (80.7%) exact matches, in which:
121 unique CDR3
6 unique J



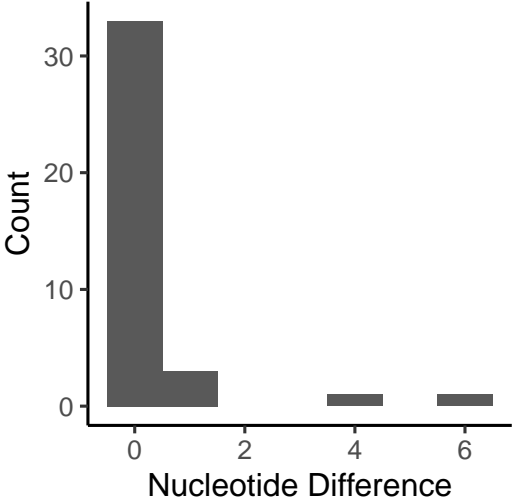
IGHV5-51*01

210 sequences assigned
186 (88.6%) exact matches, in which:
185 unique CDR3
6 unique J



IGHV6-1*01

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





Warning – no inferred sequences found.