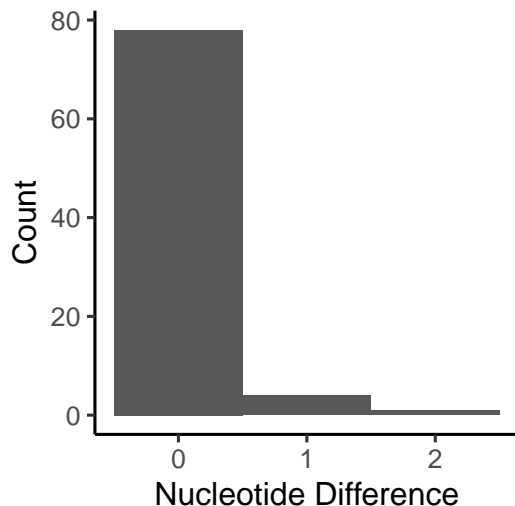


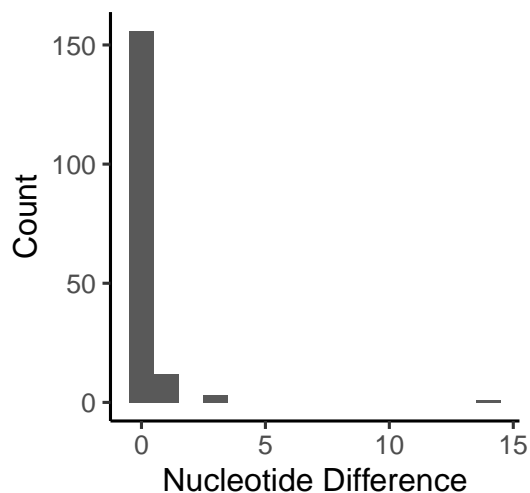
IGHV1-2*04

83 sequences assigned
78 (94%) exact matches, in which:
77 unique CDR3
6 unique J



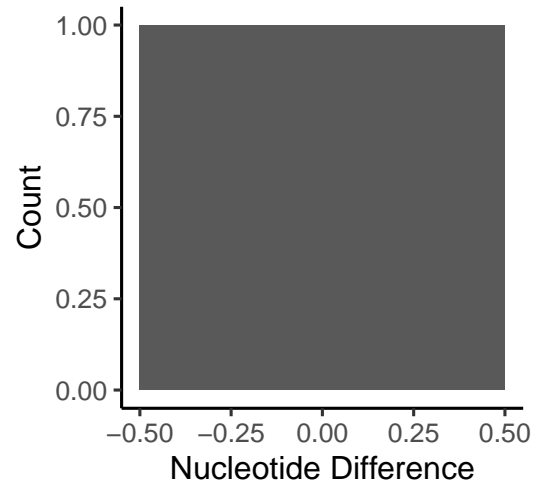
IGHV1-8*01

172 sequences assigned
156 (90.7%) exact matches, in which:
154 unique CDR3
5 unique J



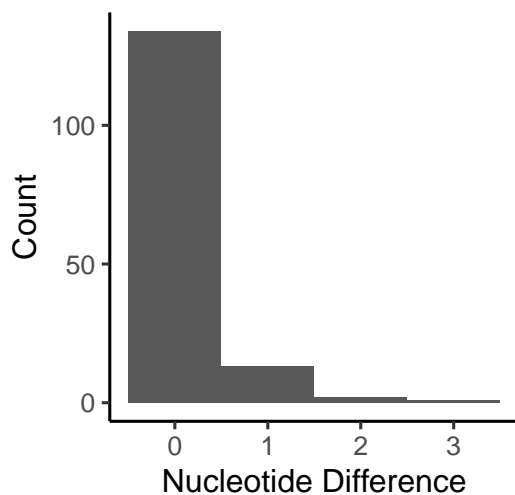
IGHV1-45*02

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



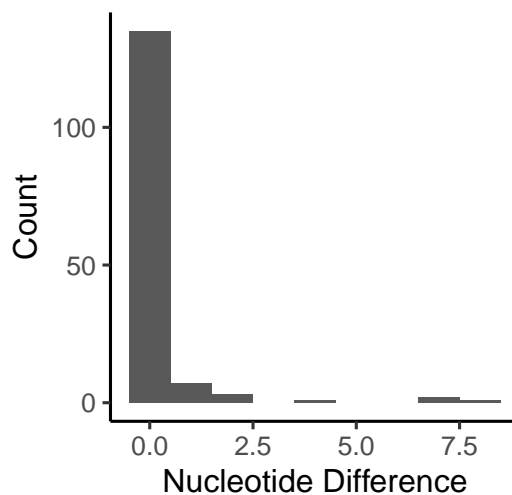
IGHV1-2*06

150 sequences assigned
134 (89.3%) exact matches, in which:
132 unique CDR3
6 unique J



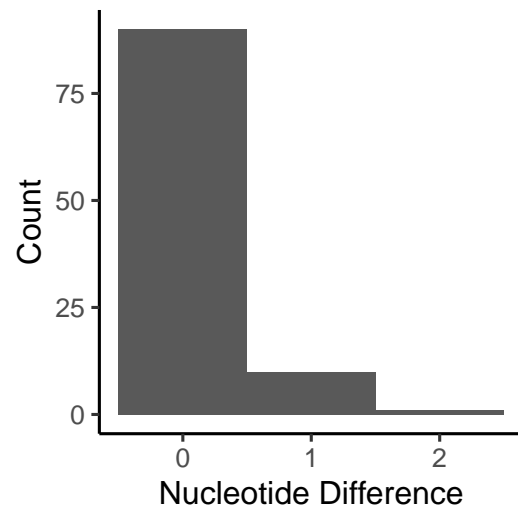
IGHV1-18*01

149 sequences assigned
135 (90.6%) exact matches, in which:
135 unique CDR3
6 unique J



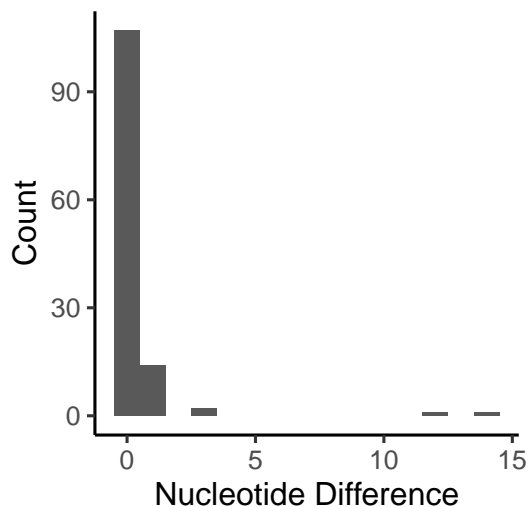
IGHV1-46*01

101 sequences assigned
90 (89.1%) exact matches, in which:
89 unique CDR3
6 unique J



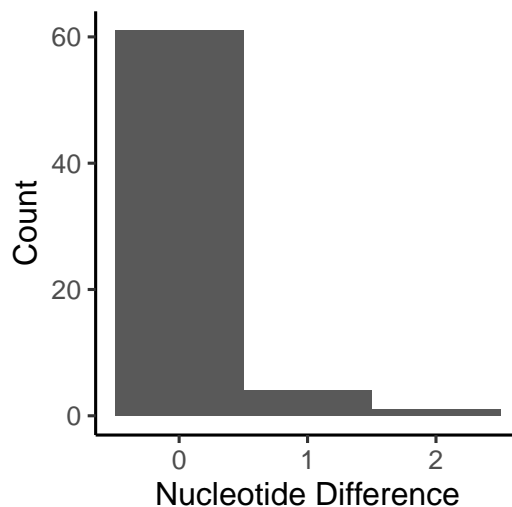
IGHV1-3*01

125 sequences assigned
107 (85.6%) exact matches, in which:
107 unique CDR3
5 unique J



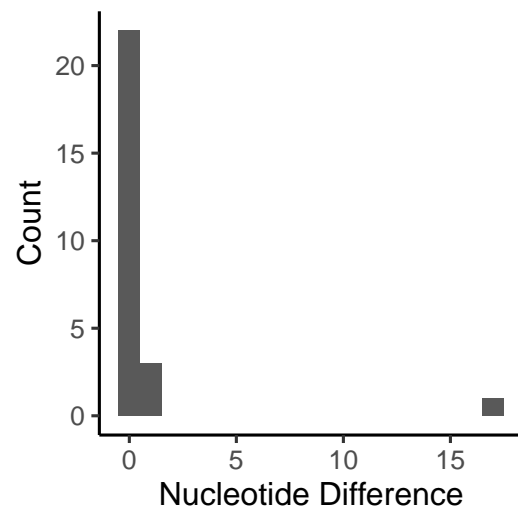
IGHV1-24*01

66 sequences assigned
61 (92.4%) exact matches, in which:
61 unique CDR3
5 unique J



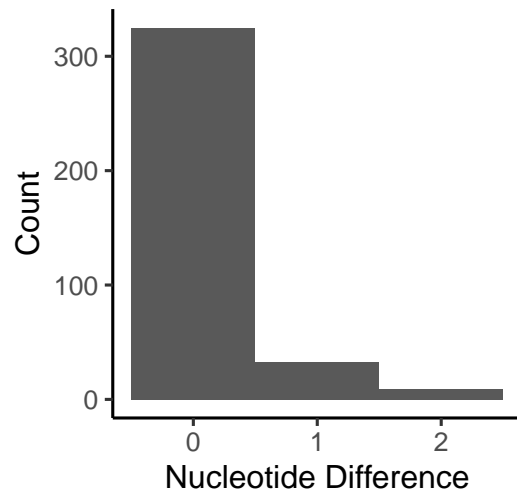
IGHV1-58*01

26 sequences assigned
22 (84.6%) exact matches, in which:
22 unique CDR3
4 unique J



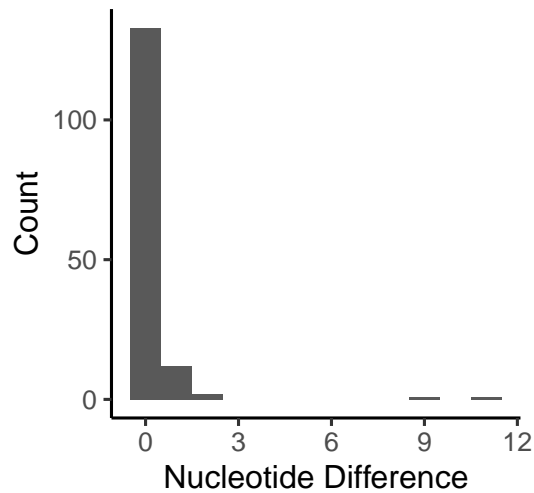
IGHV1–69*01

367 sequences assigned
325 (88.6%) exact matches, in which:
324 unique CDR3
6 unique J



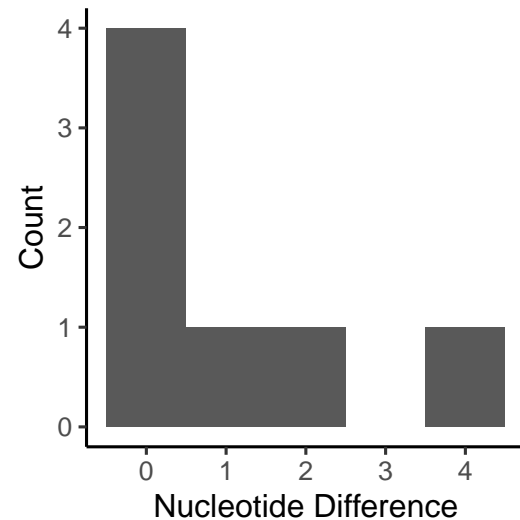
IGHV2–5*02

149 sequences assigned
133 (89.3%) exact matches, in which:
132 unique CDR3
5 unique J



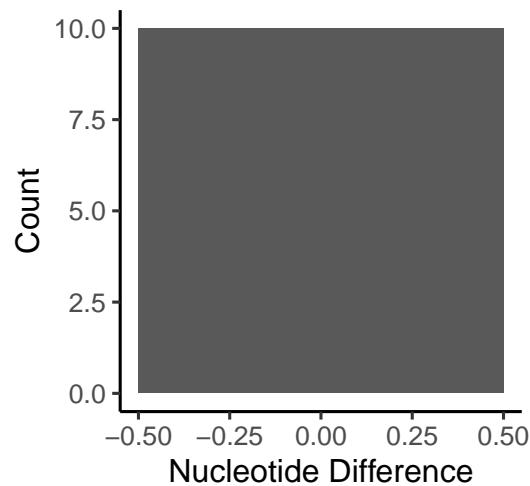
IGHV2–70*04

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



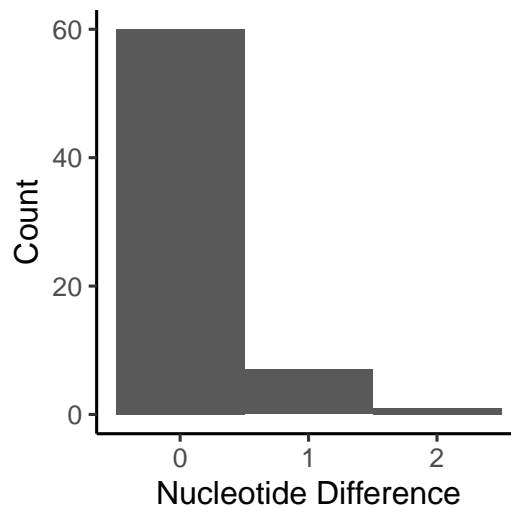
IGHV1–69–2*01

10 sequences assigned
10 (100%) exact matches, in which:
10 unique CDR3
3 unique J



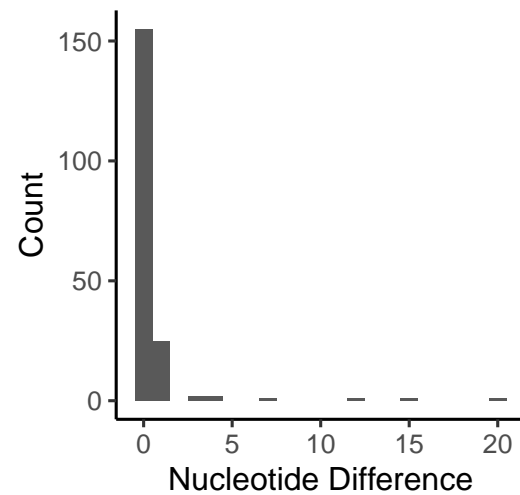
IGHV2–26*01

68 sequences assigned
60 (88.2%) exact matches, in which:
60 unique CDR3
6 unique J



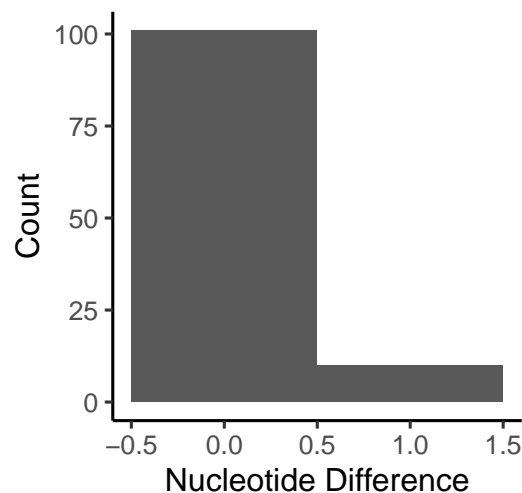
IGHV3–7*01

188 sequences assigned
155 (82.4%) exact matches, in which:
154 unique CDR3
5 unique J



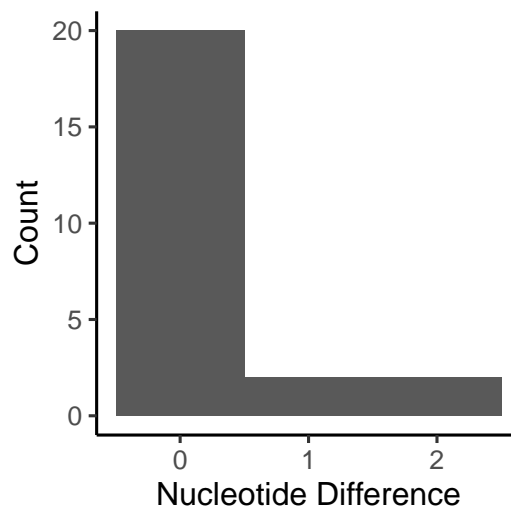
IGHV1–69*06

111 sequences assigned
101 (91%) exact matches, in which:
101 unique CDR3
5 unique J



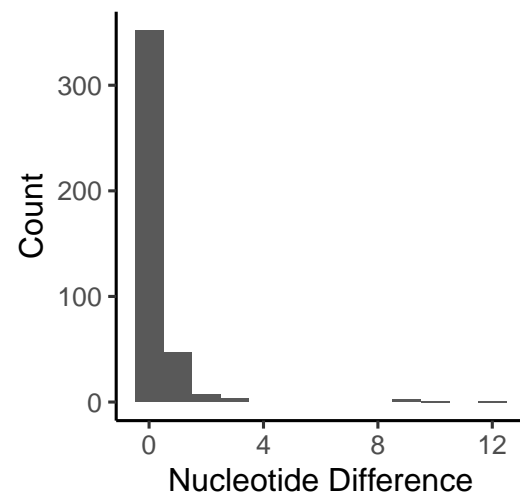
IGHV2–70*01

24 sequences assigned
20 (83.3%) exact matches, in which:
20 unique CDR3
4 unique J



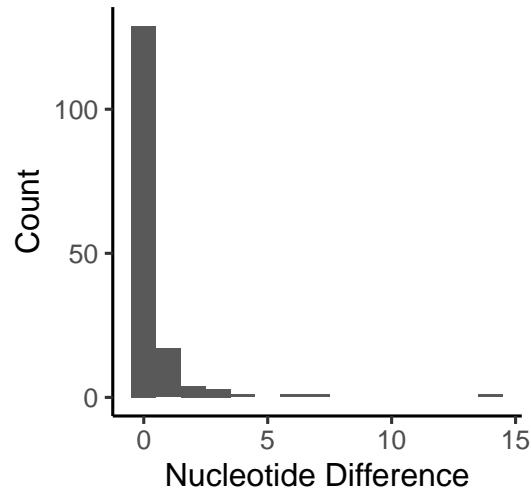
IGHV3–9*01

413 sequences assigned
352 (85.2%) exact matches, in which:
347 unique CDR3
6 unique J



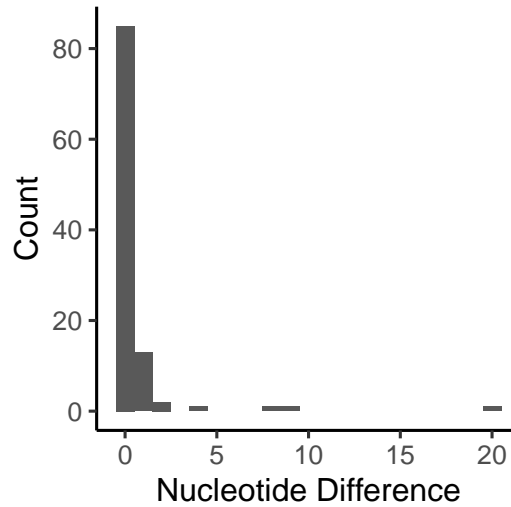
IGHV3-11*01

157 sequences assigned
129 (82.2%) exact matches, in which:
128 unique CDR3
5 unique J



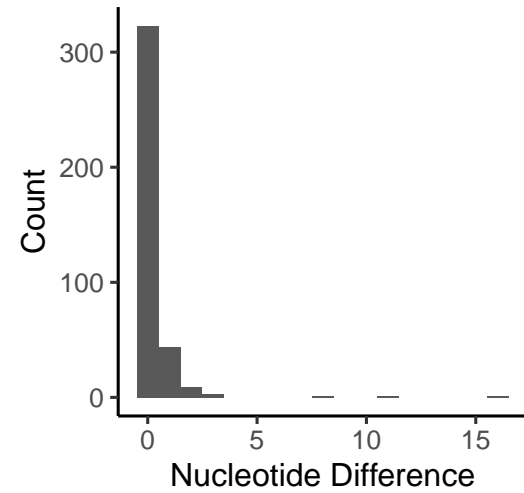
IGHV3-15*07

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



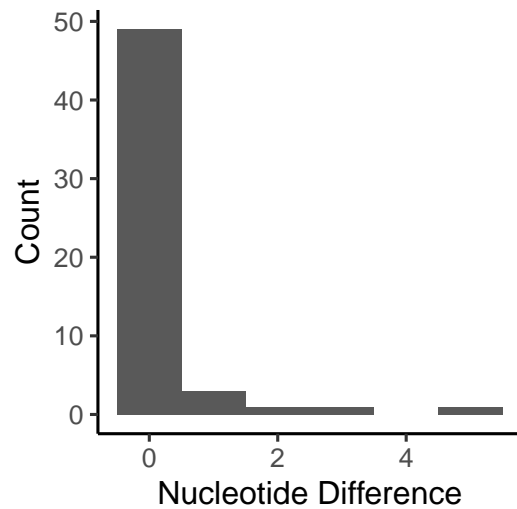
IGHV3-21*01

382 sequences assigned
323 (84.6%) exact matches, in which:
317 unique CDR3
6 unique J



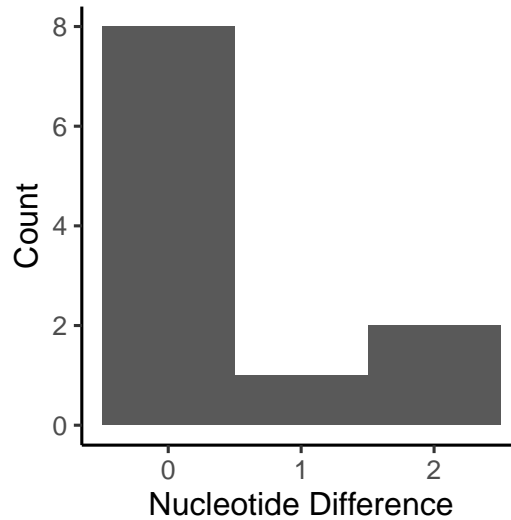
IGHV3-13*01

55 sequences assigned
49 (89.1%) exact matches, in which:
49 unique CDR3
4 unique J



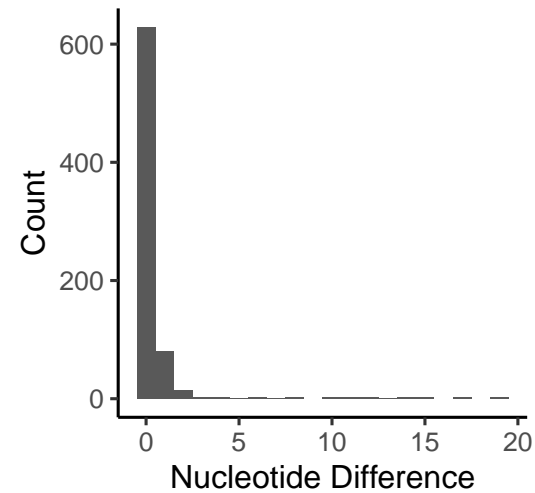
IGHV3-20*01

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



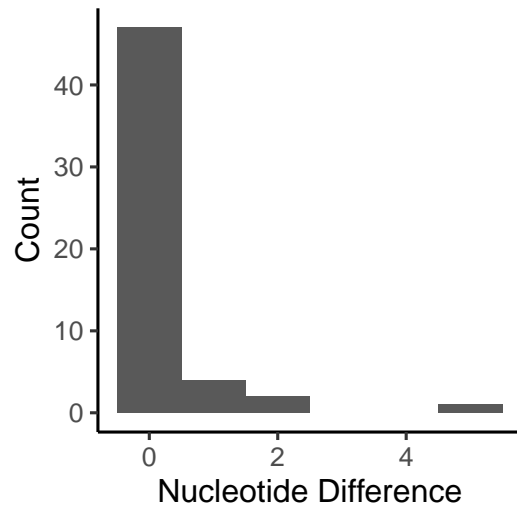
IGHV3-23*01

754 sequences assigned
629 (83.4%) exact matches, in which:
619 unique CDR3
6 unique J



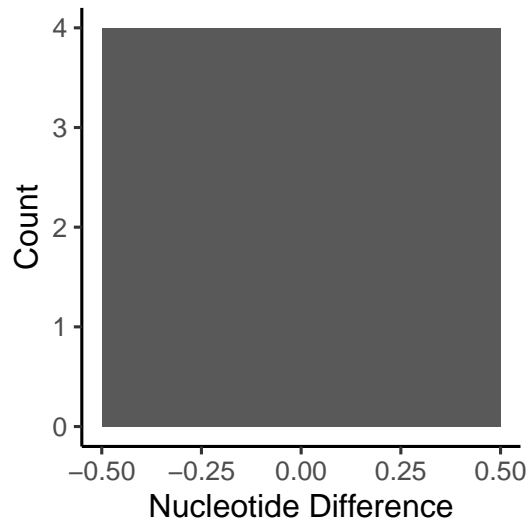
IGHV3-15*01

54 sequences assigned
47 (87%) exact matches, in which:
47 unique CDR3
5 unique J



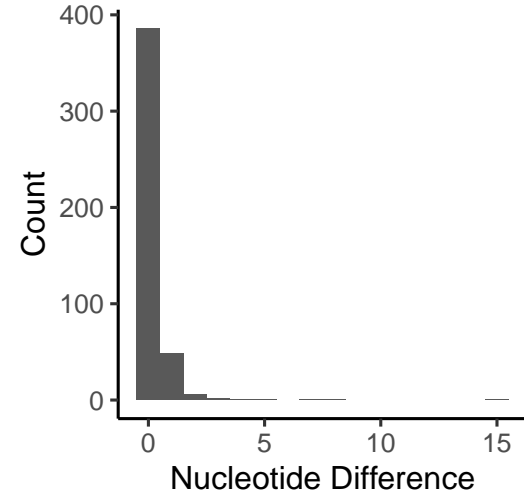
IGHV3-20*04

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



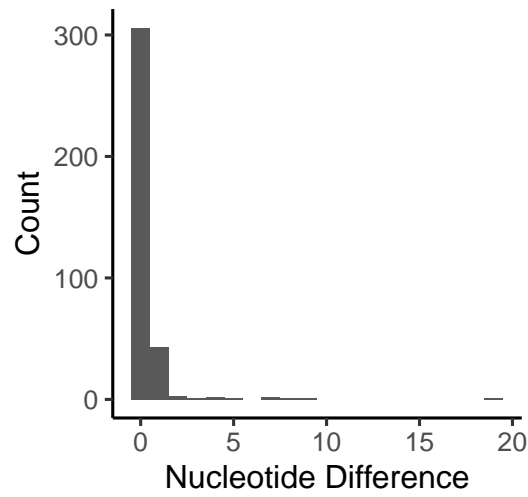
IGHV3-30-3*01

447 sequences assigned
386 (86.4%) exact matches, in which:
378 unique CDR3
6 unique J



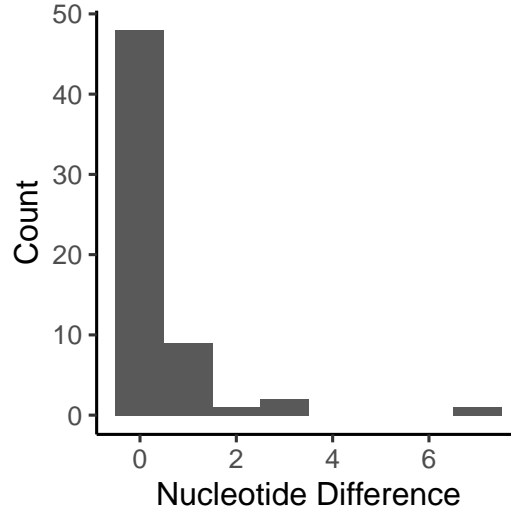
IGHV3–30*18

361 sequences assigned
306 (84.8%) exact matches, in which:
302 unique CDR3
6 unique J



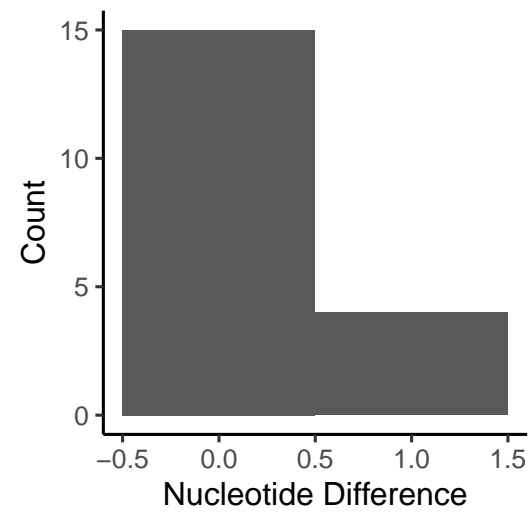
IGHV3–48*02

61 sequences assigned
48 (78.7%) exact matches, in which:
47 unique CDR3
4 unique J



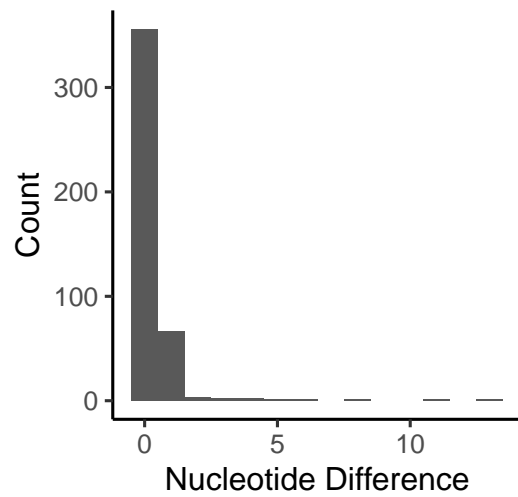
IGHV3–49*05

19 sequences assigned
15 (78.9%) exact matches, in which:
14 unique CDR3
3 unique J



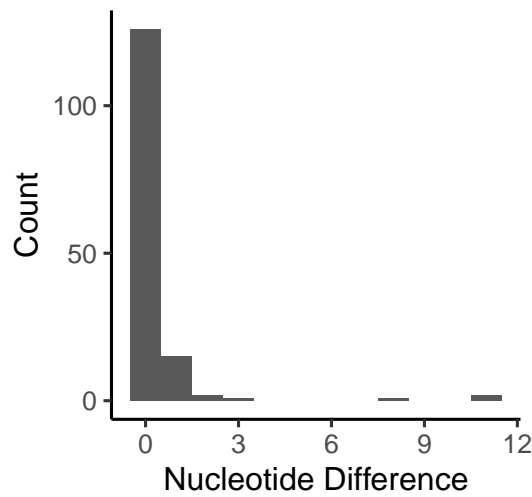
IGHV3–33*01

436 sequences assigned
356 (81.7%) exact matches, in which:
352 unique CDR3
6 unique J



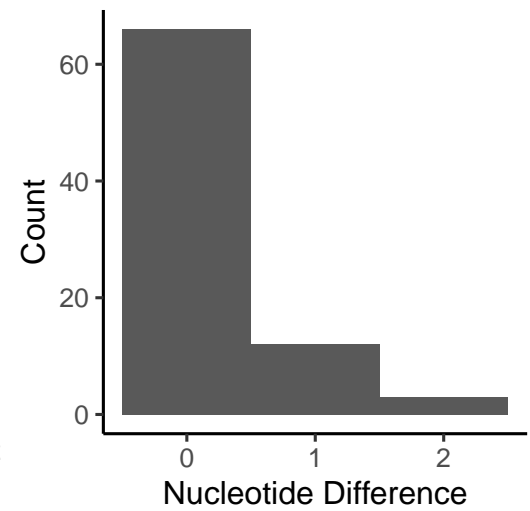
IGHV3–48*03

147 sequences assigned
126 (85.7%) exact matches, in which:
125 unique CDR3
6 unique J



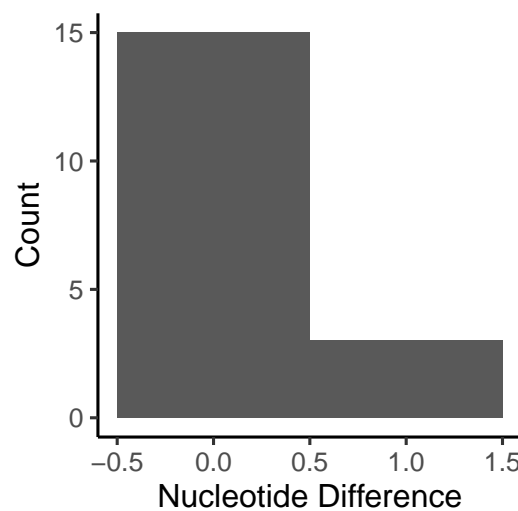
IGHV3–53*01

81 sequences assigned
66 (81.5%) exact matches, in which:
66 unique CDR3
5 unique J



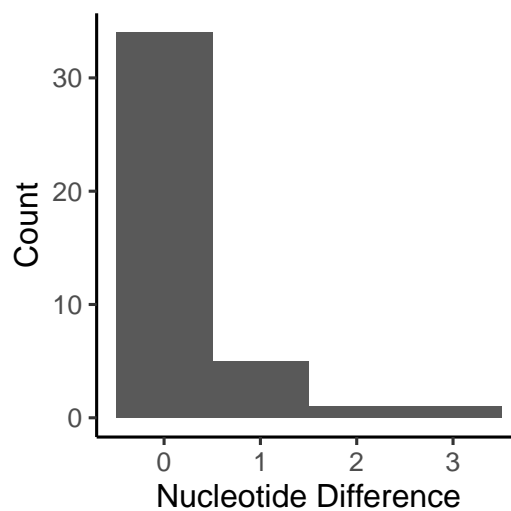
IGHV3–43*01

18 sequences assigned
15 (83.3%) exact matches, in which:
15 unique CDR3
3 unique J



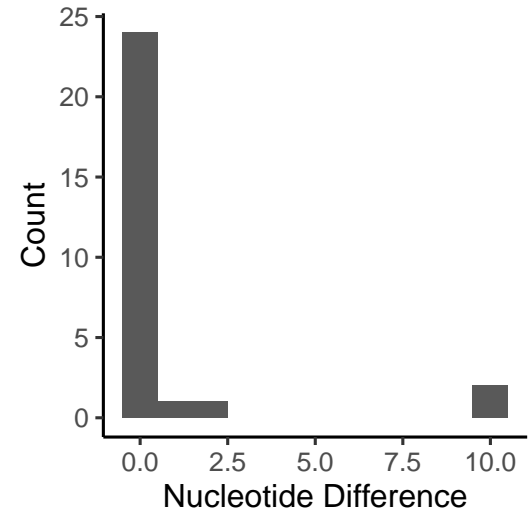
IGHV3–49*04

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



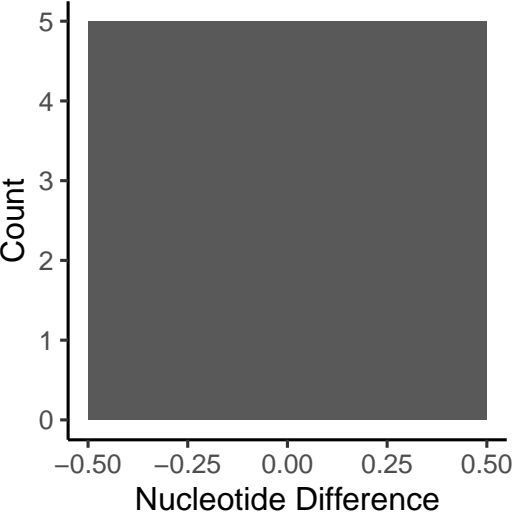
IGHV3–53*02

29 sequences assigned
24 (82.8%) exact matches, in which:
24 unique CDR3
5 unique J



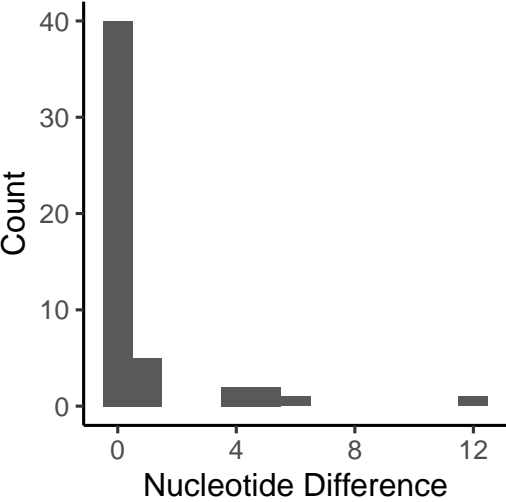
IGHV3-64*02

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



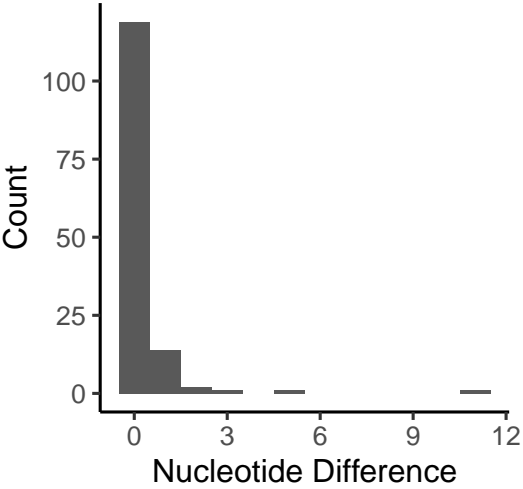
IGHV3-73*02

51 sequences assigned
40 (78.4%) exact matches, in which:
40 unique CDR3
5 unique J



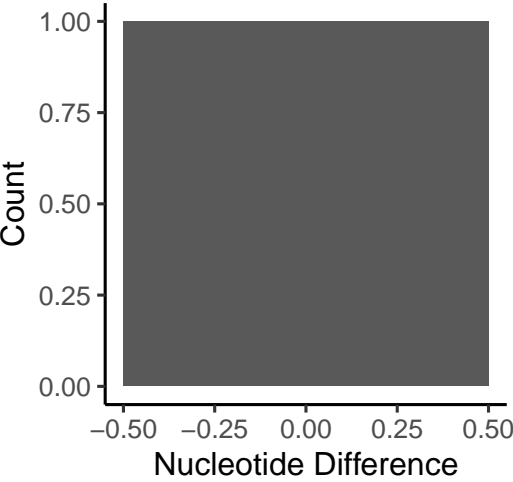
IGHV4-4*02

138 sequences assigned
119 (86.2%) exact matches, in which:
119 unique CDR3
6 unique J



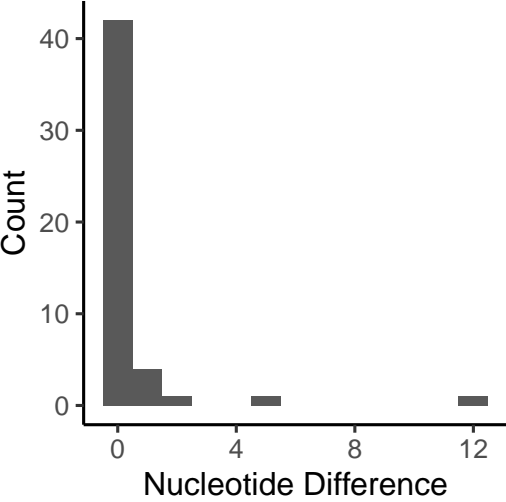
IGHV3-69-1*02

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



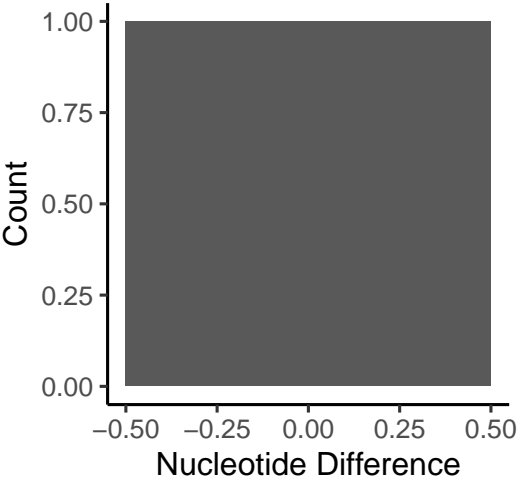
IGHV3-74*01

49 sequences assigned
42 (85.7%) exact matches, in which:
42 unique CDR3
4 unique J



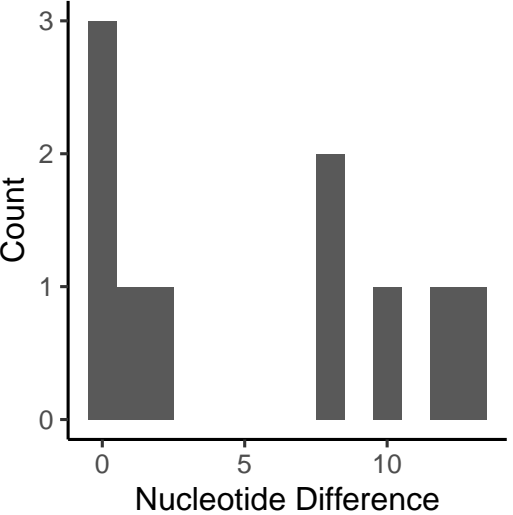
IGHV4-28*01

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



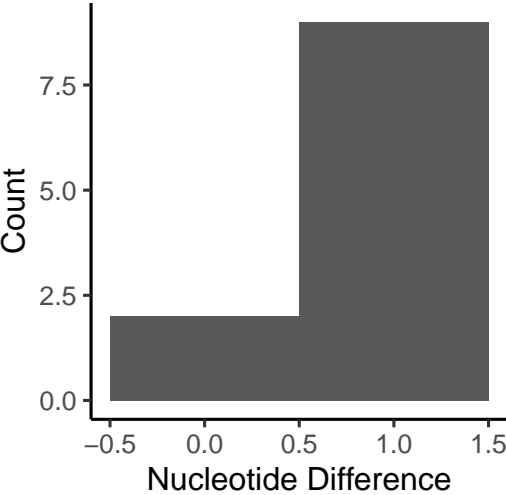
IGHV3-72*01

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



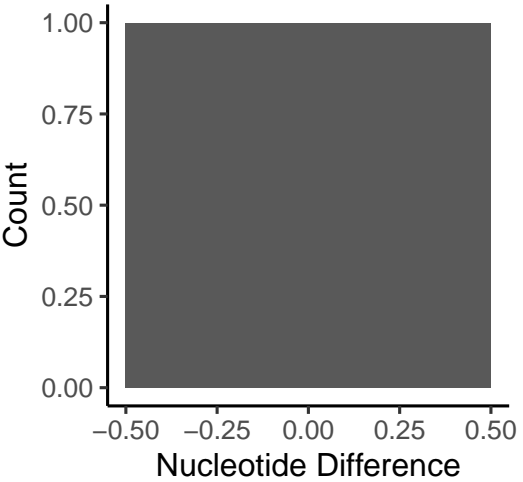
IGHV3-43D*04

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
1 unique J



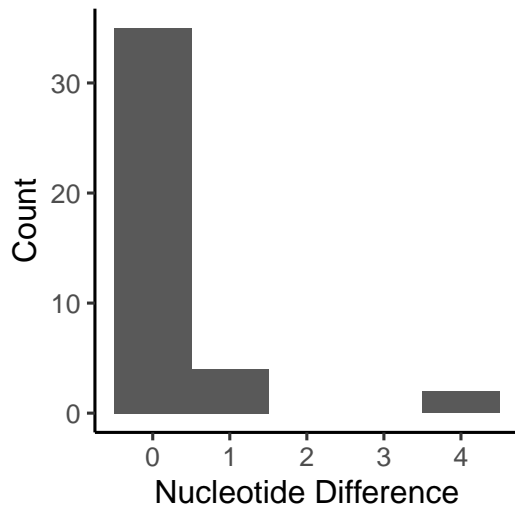
IGHV4-28*03

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



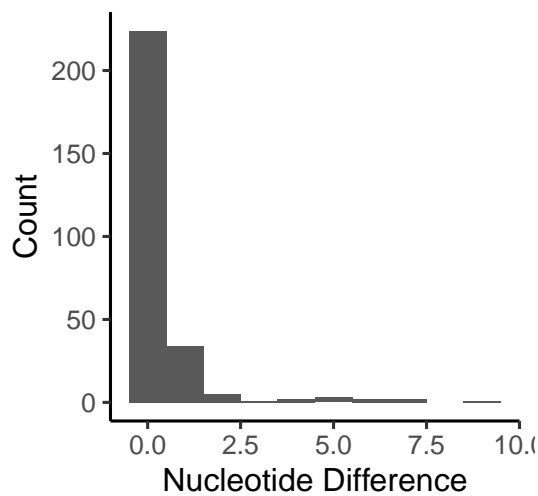
IGHV4-30-4*01

41 sequences assigned
35 (85.4%) exact matches, in which:
35 unique CDR3
4 unique J



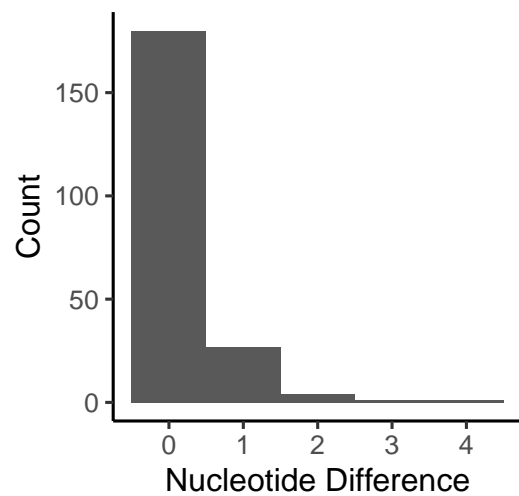
IGHV4-34*01

274 sequences assigned
224 (81.8%) exact matches, in which:
223 unique CDR3
6 unique J



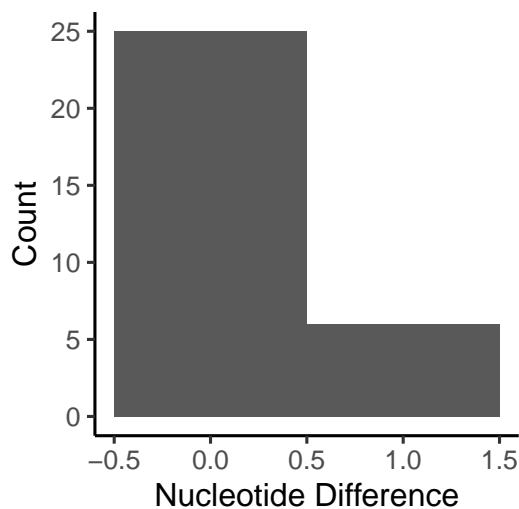
IGHV4-39*01

213 sequences assigned
180 (84.5%) exact matches, in which:
179 unique CDR3
6 unique J



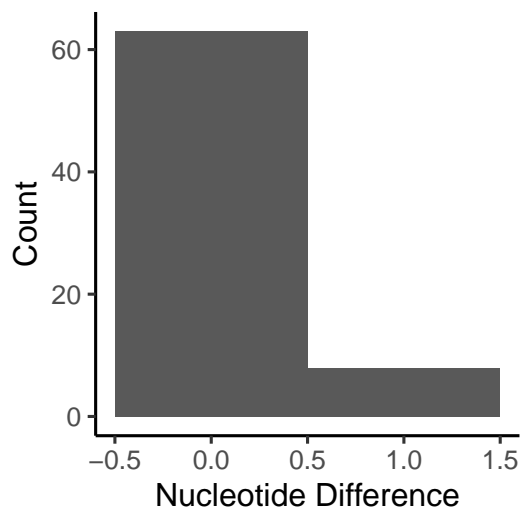
IGHV4-30-2*01

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



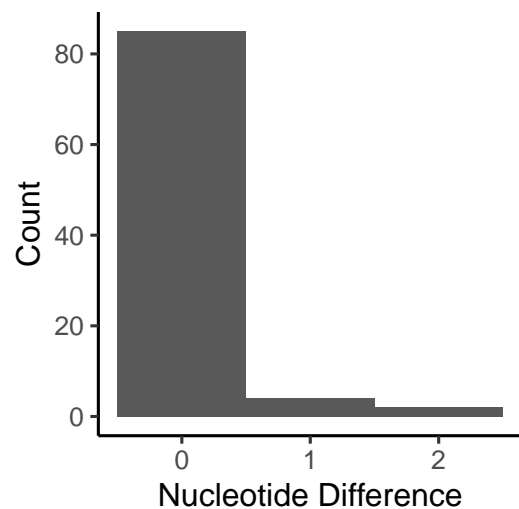
IGHV4-38-2*01

71 sequences assigned
63 (88.7%) exact matches, in which:
63 unique CDR3
6 unique J



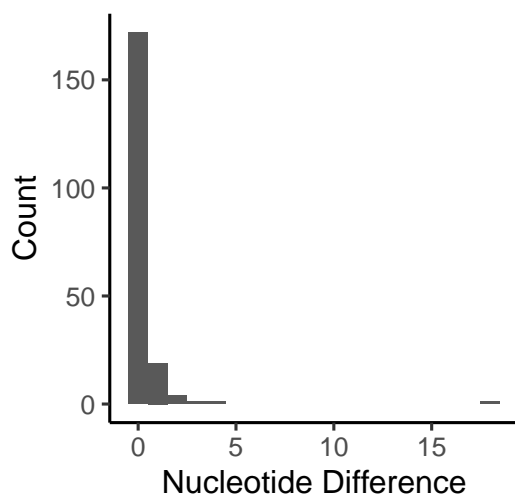
IGHV4-59*01

91 sequences assigned
85 (93.4%) exact matches, in which:
84 unique CDR3
6 unique J



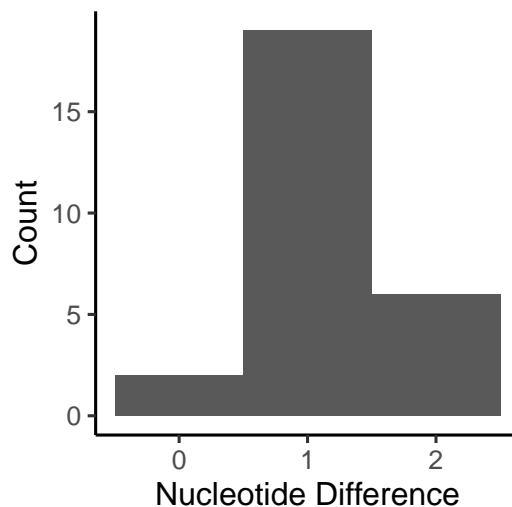
IGHV4-31*03

198 sequences assigned
172 (86.9%) exact matches, in which:
172 unique CDR3
6 unique J



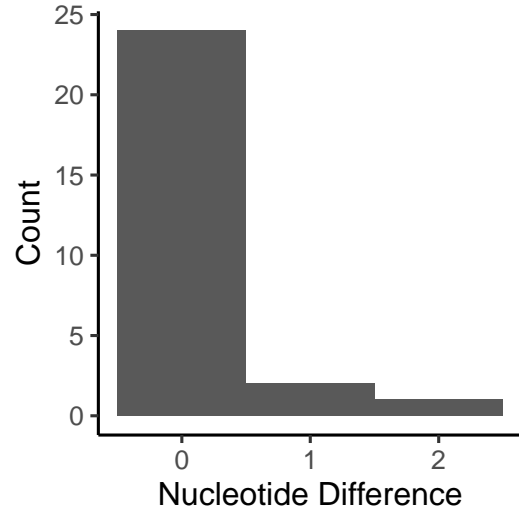
IGHV4-38-2*02

27 sequences assigned
2 (7.4%) exact matches, in which:
2 unique CDR3
1 unique J



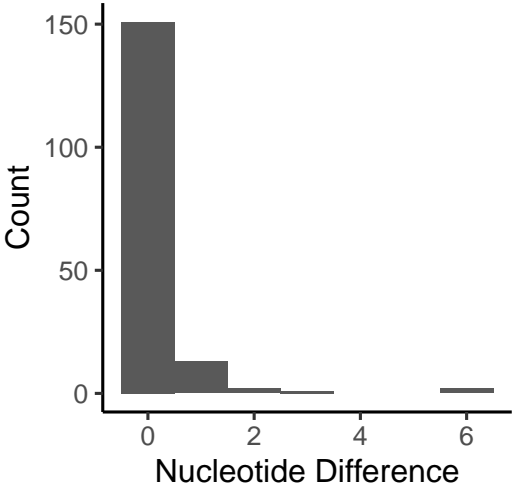
IGHV4-61*01

27 sequences assigned
24 (88.9%) exact matches, in which:
24 unique CDR3
5 unique J



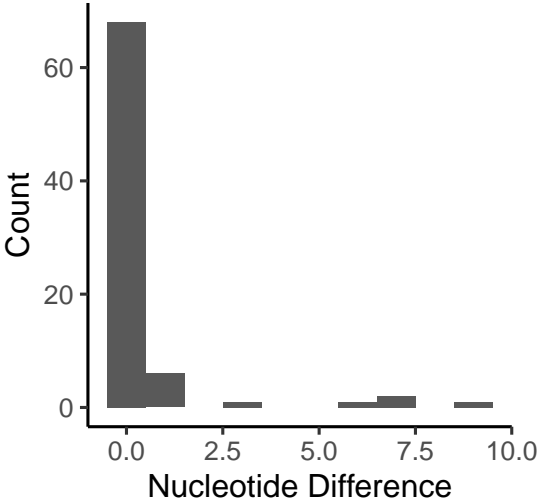
IGHV5-51*01

170 sequences assigned
151 (88.8%) exact matches, in which:
150 unique CDR3
6 unique J



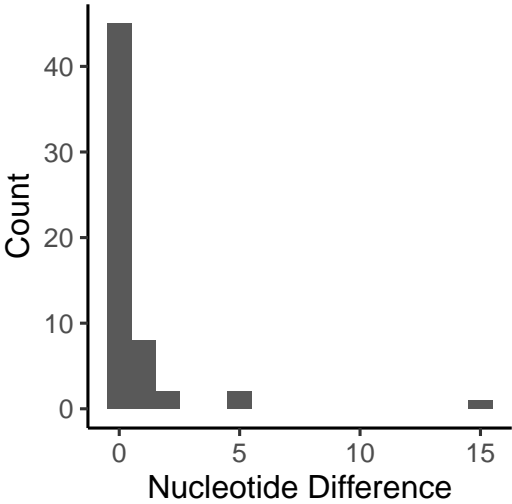
IGHV6-1*01

79 sequences assigned
68 (86.1%) exact matches, in which:
67 unique CDR3
5 unique J



IGHV7-4-1*02

58 sequences assigned
45 (77.6%) exact matches, in which:
45 unique CDR3
5 unique J





Warning – no inferred sequences found.