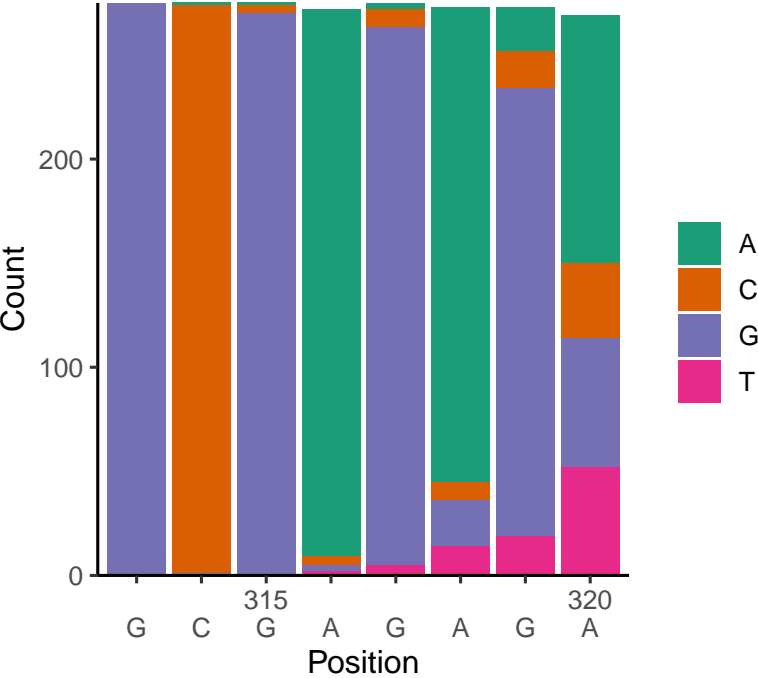


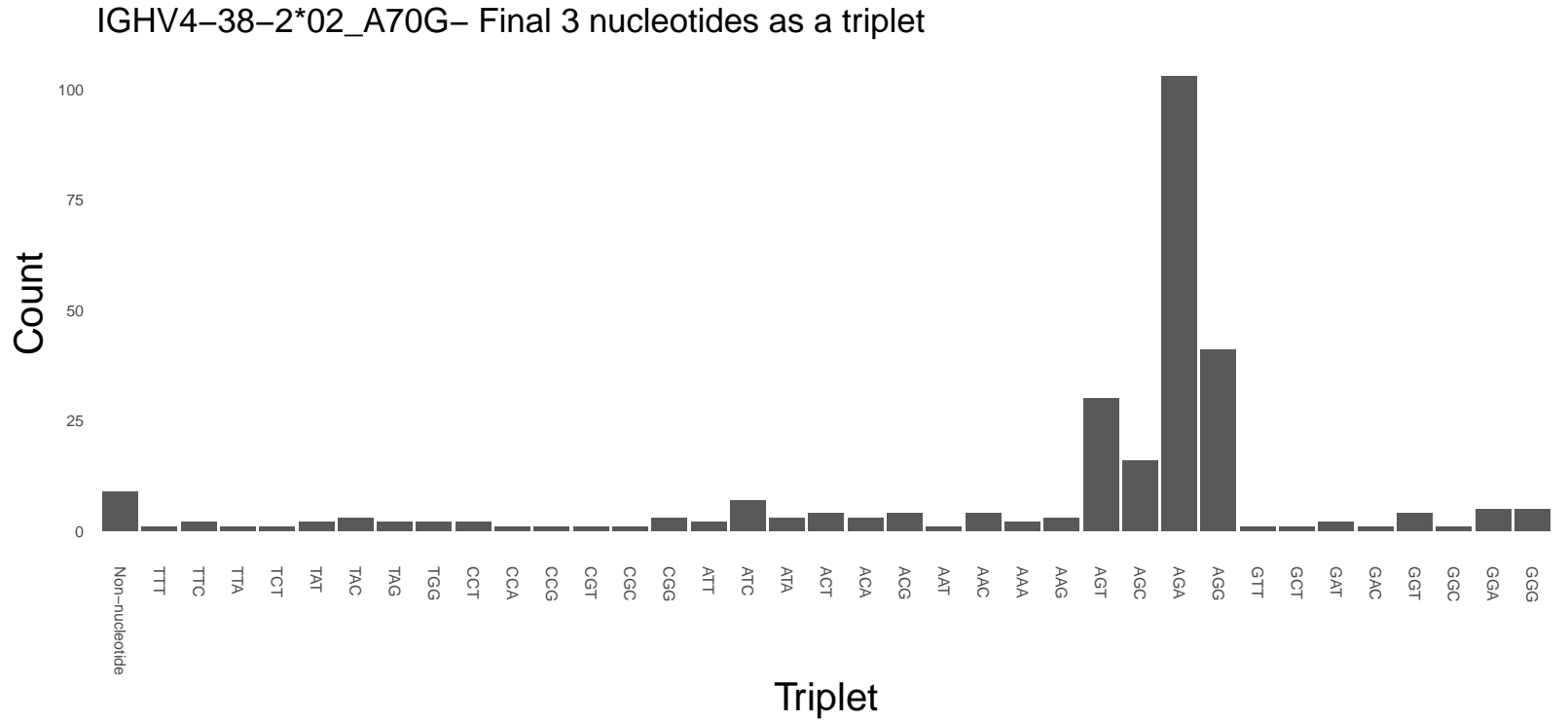
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

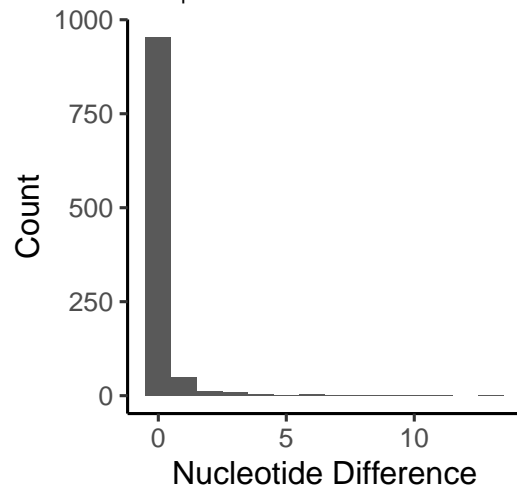


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



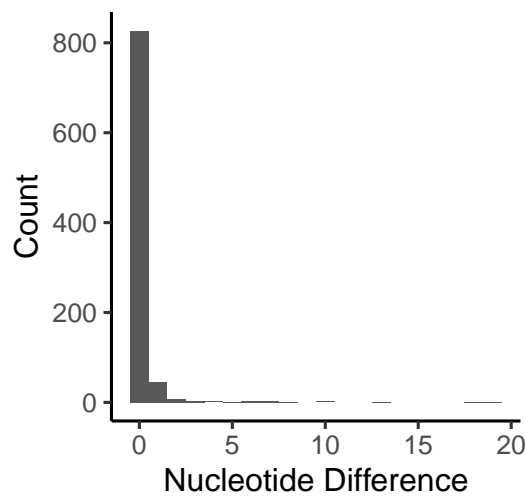
IGHV1-2*02

1039 sequences assigned
953 (91.7%) exact matches, in which:
950 unique CDR3
6 unique J



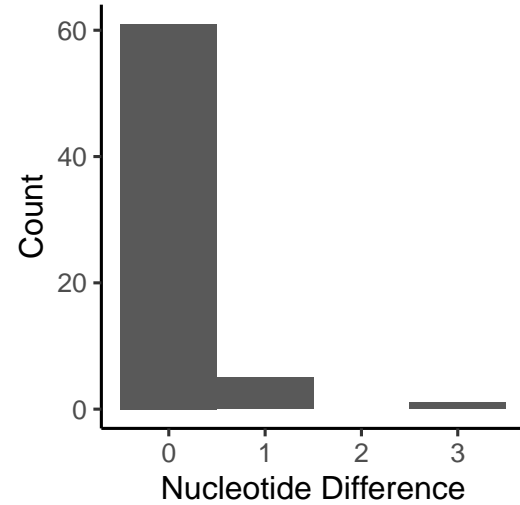
IGHV1-18*01

899 sequences assigned
827 (92%) exact matches, in which:
826 unique CDR3
6 unique J



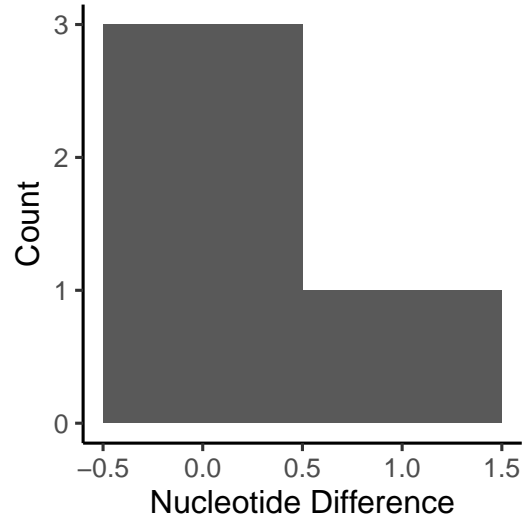
IGHV1-46*01

67 sequences assigned
61 (91%) exact matches, in which:
61 unique CDR3
5 unique J



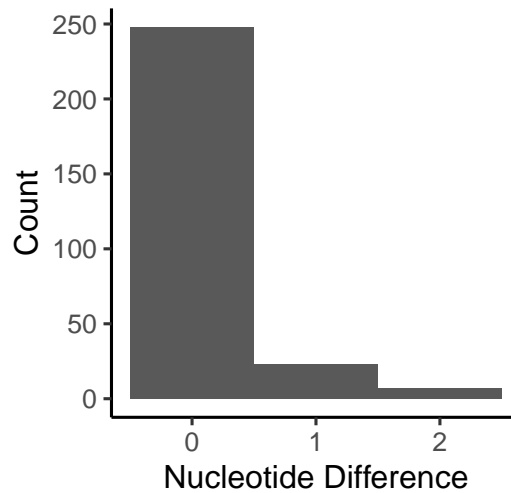
IGHV1-3*02

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



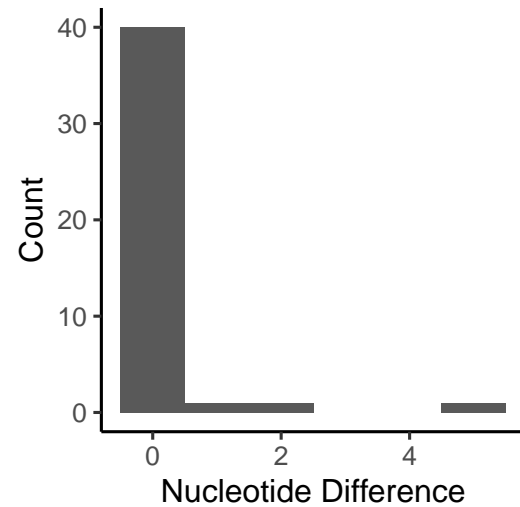
IGHV1-24*01

278 sequences assigned
248 (89.2%) exact matches, in which:
247 unique CDR3
6 unique J



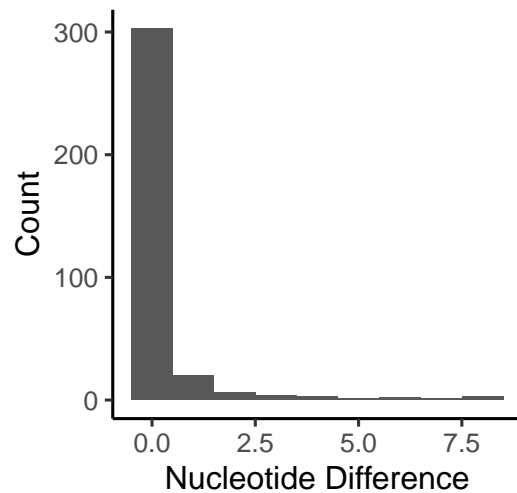
IGHV1-46*03

43 sequences assigned
40 (93%) exact matches, in which:
40 unique CDR3
6 unique J



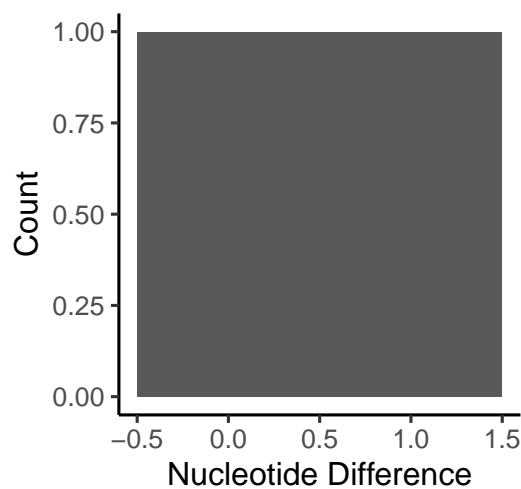
IGHV1-8*01

343 sequences assigned
303 (88.3%) exact matches, in which:
303 unique CDR3
6 unique J



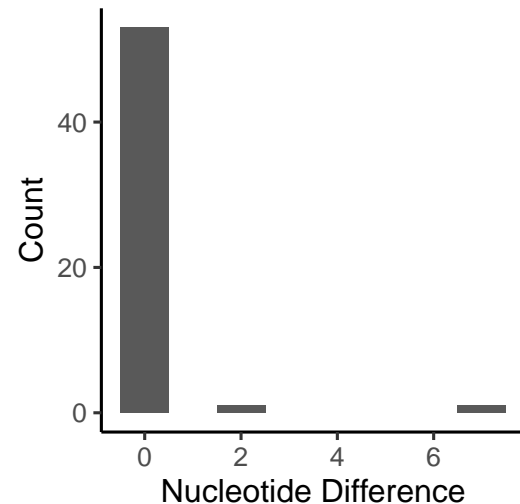
IGHV1-45*02

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



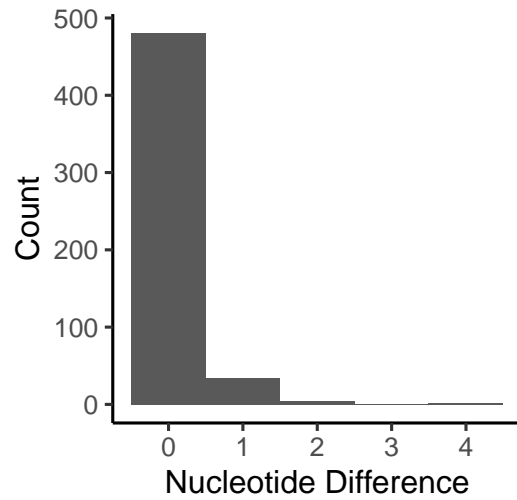
IGHV1-58*01

55 sequences assigned
53 (96.4%) exact matches, in which:
53 unique CDR3
5 unique J



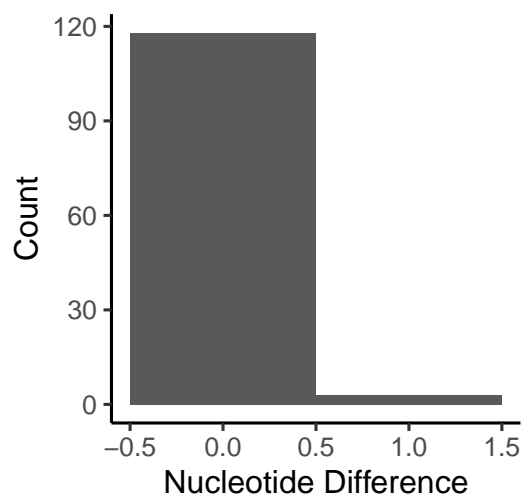
IGHV1–69*04

523 sequences assigned
481 (92%) exact matches, in which:
481 unique CDR3
6 unique J



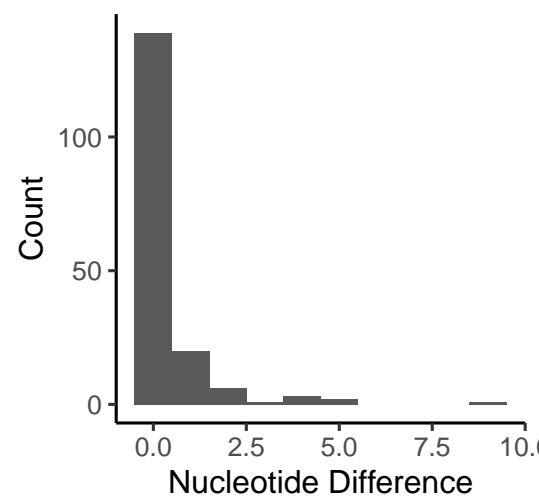
IGHV2–26*01

121 sequences assigned
118 (97.5%) exact matches, in which:
118 unique CDR3
5 unique J



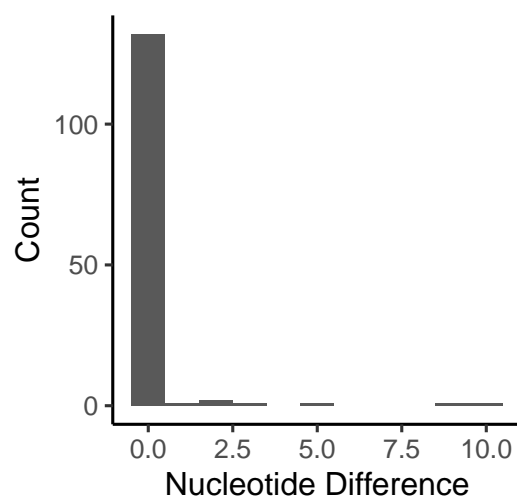
IGHV3–7*01

172 sequences assigned
139 (80.8%) exact matches, in which:
139 unique CDR3
6 unique J



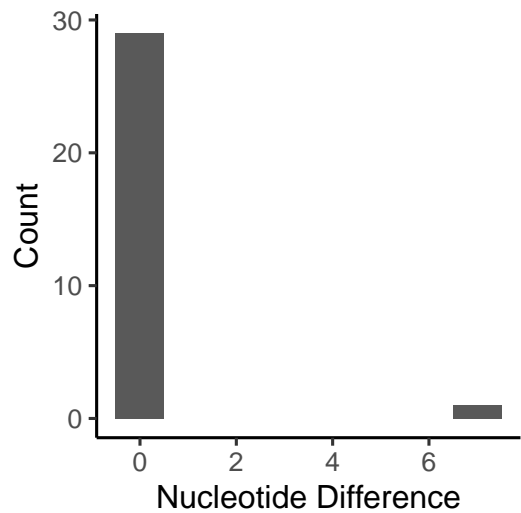
IGHV2–5*01

139 sequences assigned
132 (95%) exact matches, in which:
132 unique CDR3
6 unique J



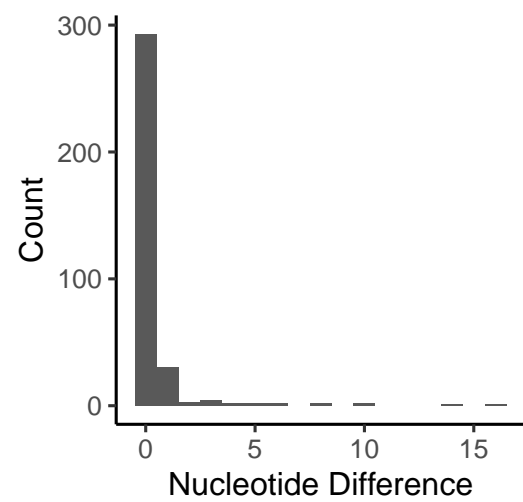
IGHV2–70*01

30 sequences assigned
29 (96.7%) exact matches, in which:
29 unique CDR3
5 unique J



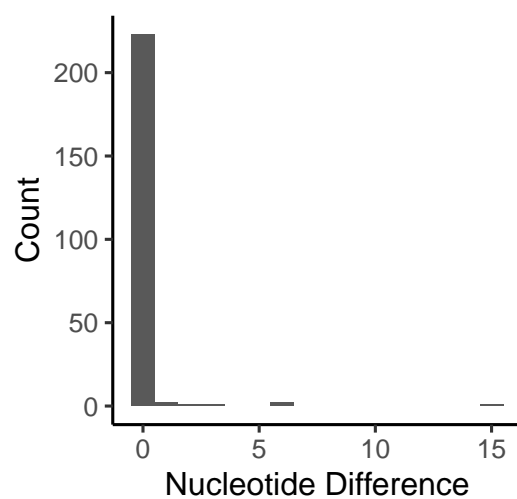
IGHV3–9*01

342 sequences assigned
293 (85.7%) exact matches, in which:
293 unique CDR3
6 unique J



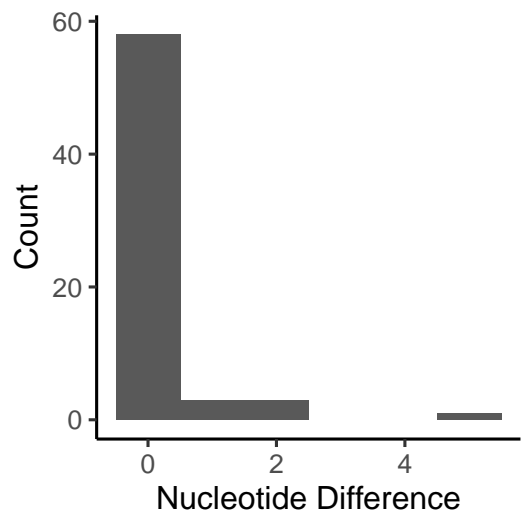
IGHV2–5*02

230 sequences assigned
223 (97%) exact matches, in which:
223 unique CDR3
6 unique J



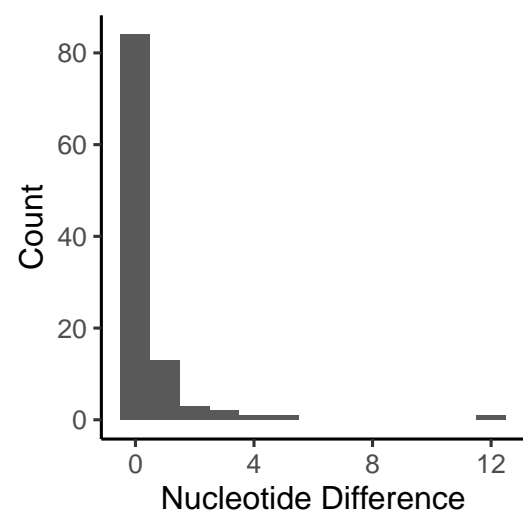
IGHV2–70*15

65 sequences assigned
58 (89.2%) exact matches, in which:
58 unique CDR3
6 unique J



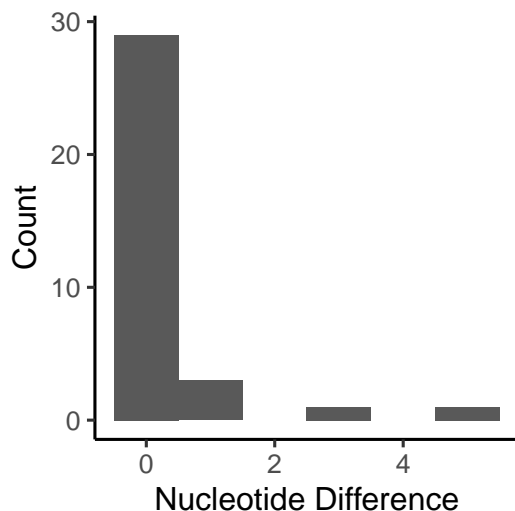
IGHV3–11*01

105 sequences assigned
84 (80%) exact matches, in which:
84 unique CDR3
5 unique J



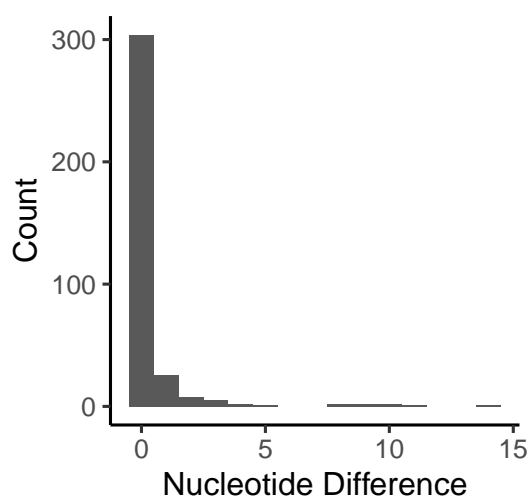
IGHV3-13*01

34 sequences assigned
29 (85.3%) exact matches, in which:
29 unique CDR3
5 unique J



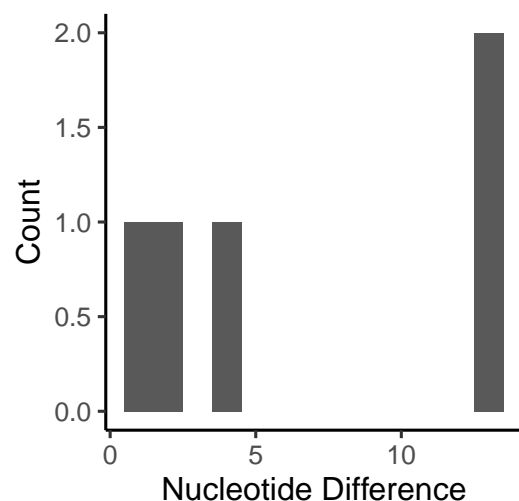
IGHV3-21*01

354 sequences assigned
304 (85.9%) exact matches, in which:
303 unique CDR3
6 unique J



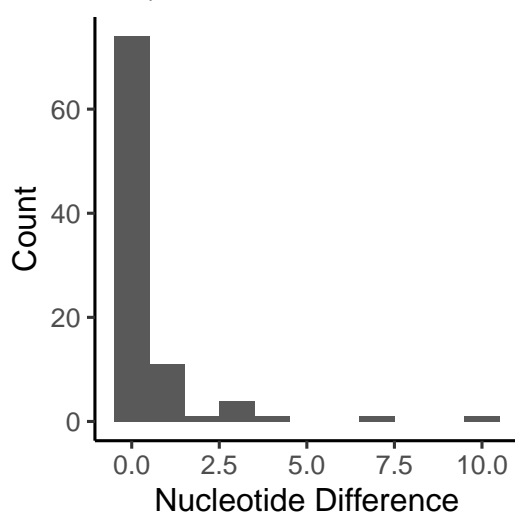
IGHV3-30-3*03

5 sequences assigned
No exact matches.



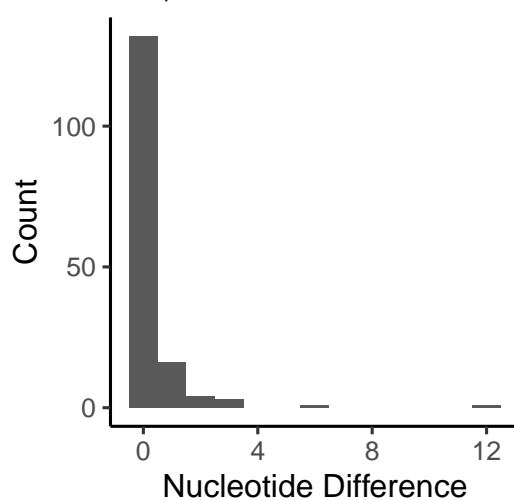
IGHV3-15*01

93 sequences assigned
74 (79.6%) exact matches, in which:
74 unique CDR3
6 unique J



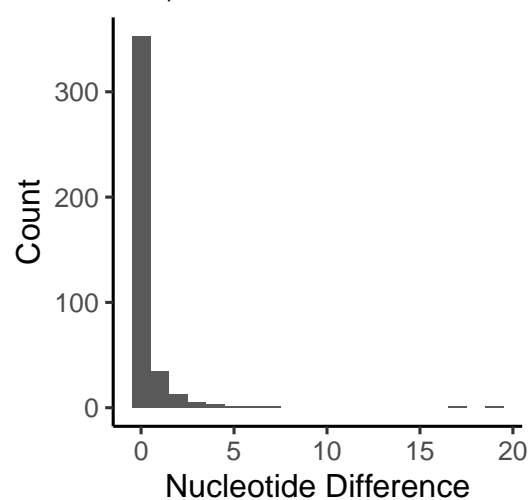
IGHV3-23*04

157 sequences assigned
132 (84.1%) exact matches, in which:
132 unique CDR3
5 unique J



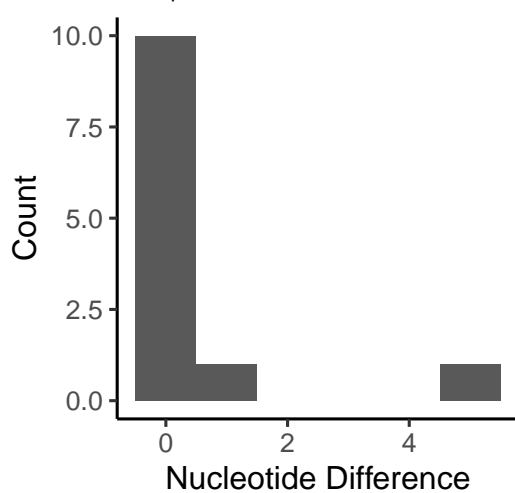
IGHV3-33*01

415 sequences assigned
353 (85.1%) exact matches, in which:
353 unique CDR3
6 unique J



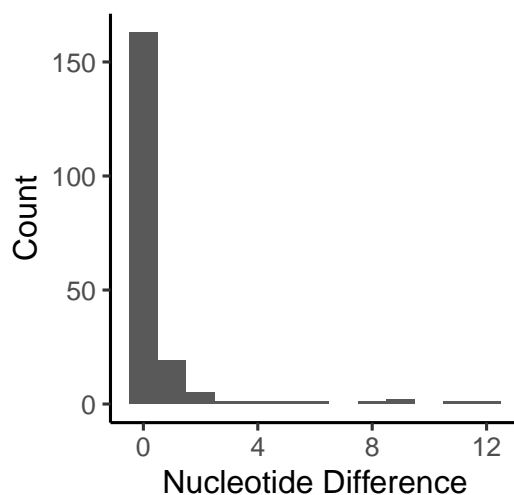
IGHV3-20*01

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
4 unique J



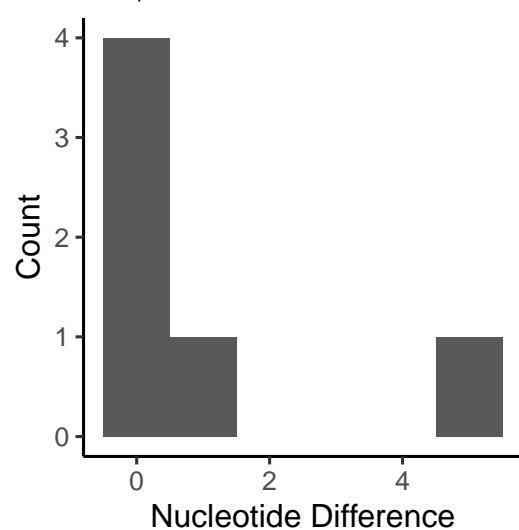
IGHV3-30*01

196 sequences assigned
163 (83.2%) exact matches, in which:
163 unique CDR3
6 unique J



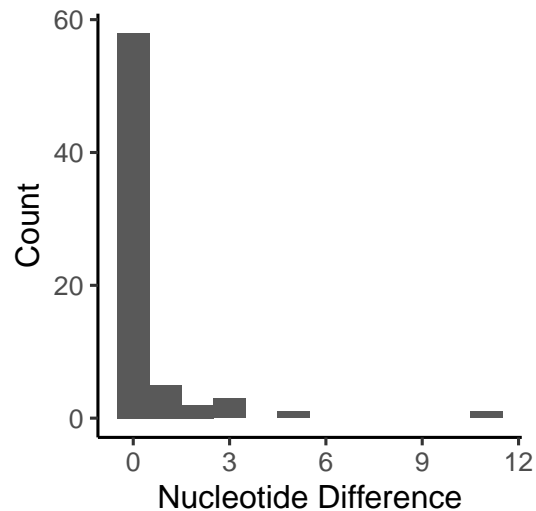
IGHV3-43*01

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
2 unique J



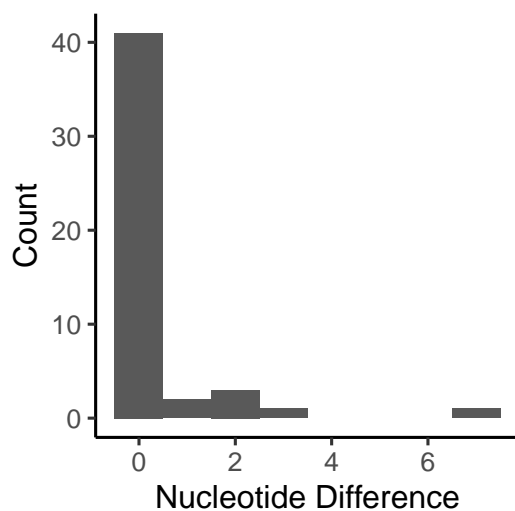
IGHV3-48*01

70 sequences assigned
58 (82.9%) exact matches, in which:
58 unique CDR3
5 unique J



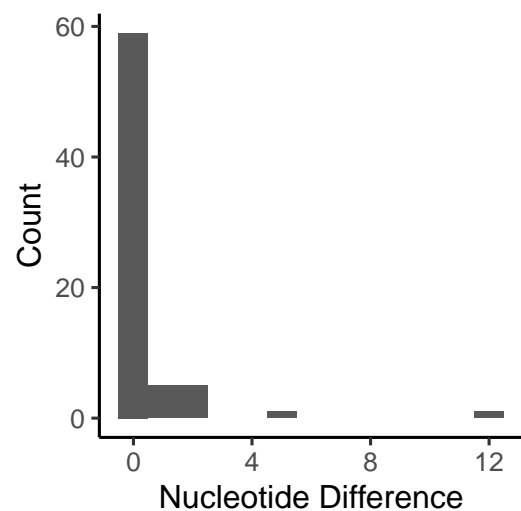
IGHV3-49*04

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



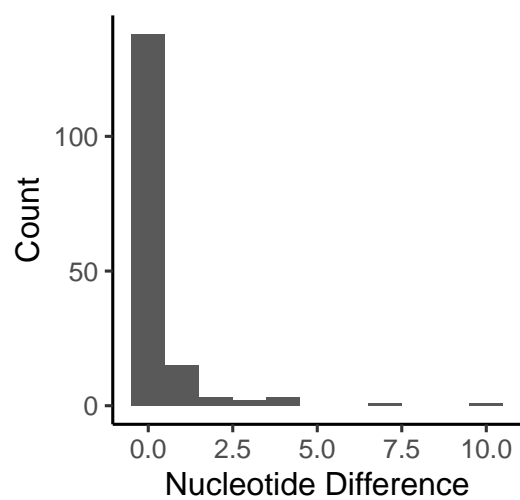
IGHV3-66*01

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



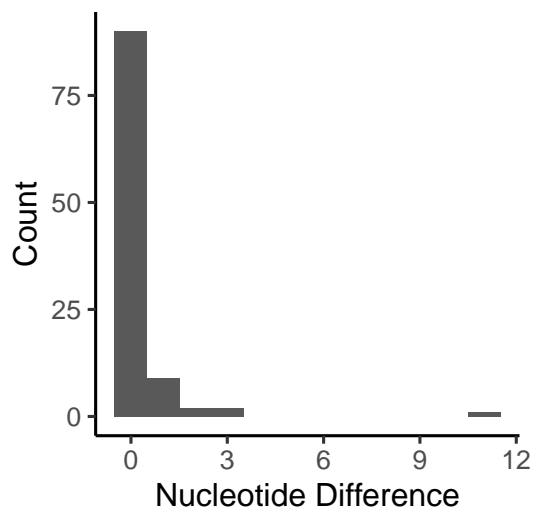
IGHV3-48*03

163 sequences assigned
138 (84.7%) exact matches, in which:
138 unique CDR3
5 unique J



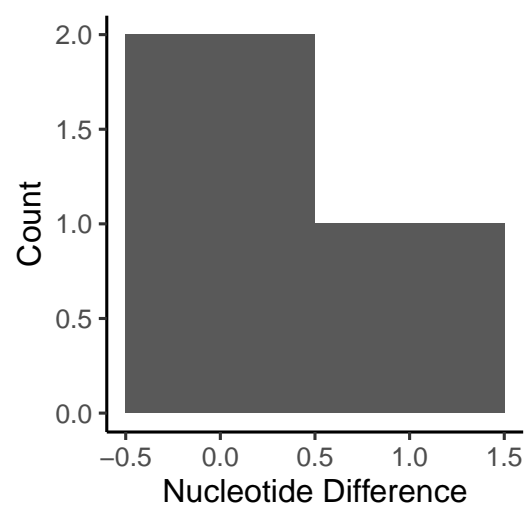
IGHV3-53*02

105 sequences assigned
90 (85.7%) exact matches, in which:
90 unique CDR3
5 unique J



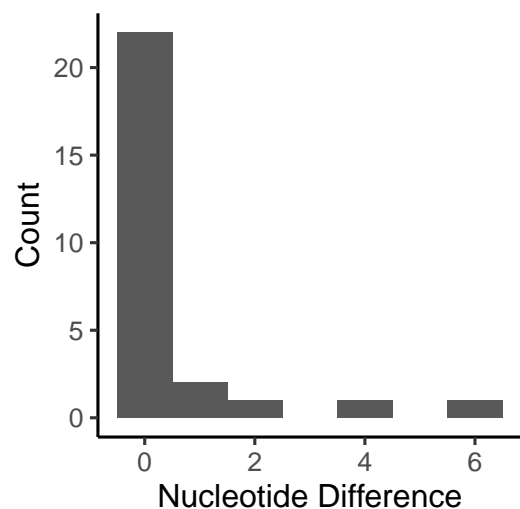
IGHV3-72*01

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



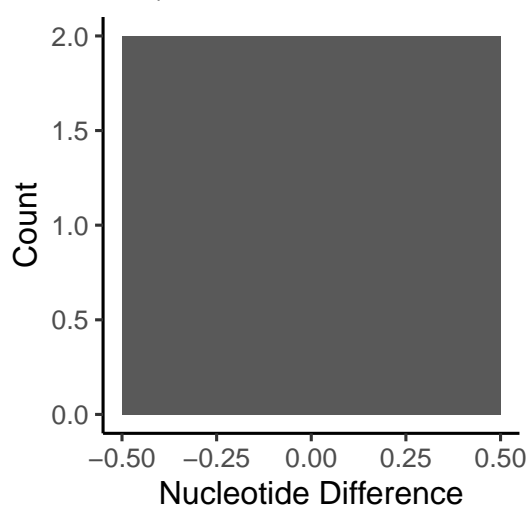
IGHV3-49*03

27 sequences assigned
22 (81.5%) exact matches, in which:
22 unique CDR3
4 unique J



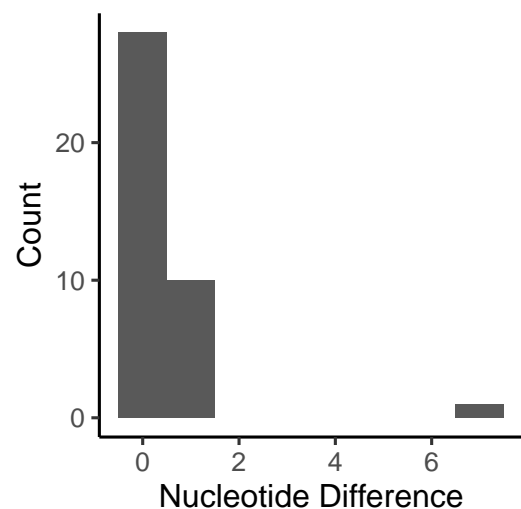
IGHV3-64*02

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



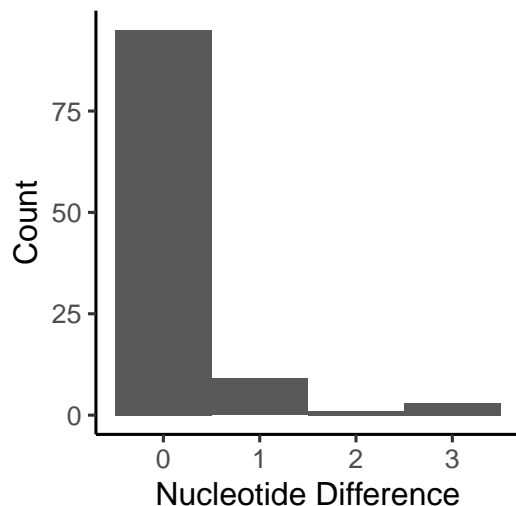
IGHV3-73*02

39 sequences assigned
28 (71.8%) exact matches, in which:
28 unique CDR3
5 unique J



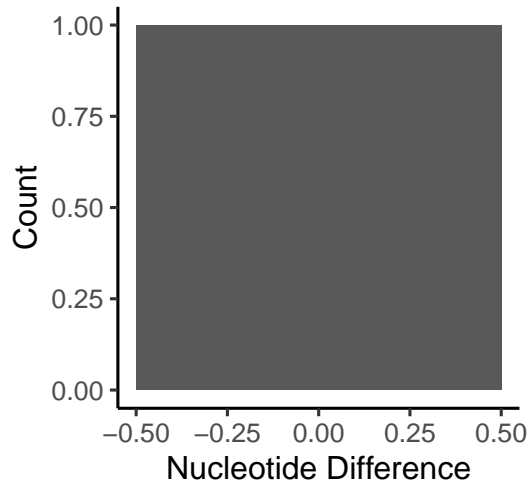
IGHV3-74*01

108 sequences assigned
95 (88%) exact matches, in which:
95 unique CDR3
5 unique J



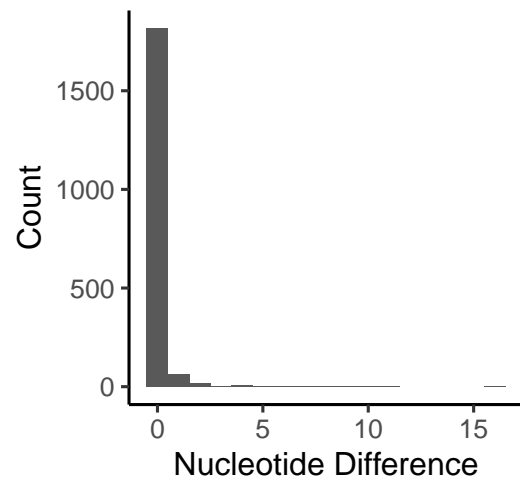
IGHV4-28*01

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



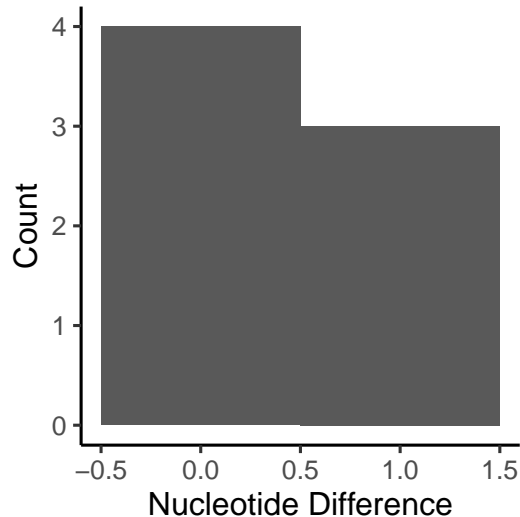
IGHV4-34*01

1919 sequences assigned
1816 (94.6%) exact matches, in which:
1816 unique CDR3
6 unique J



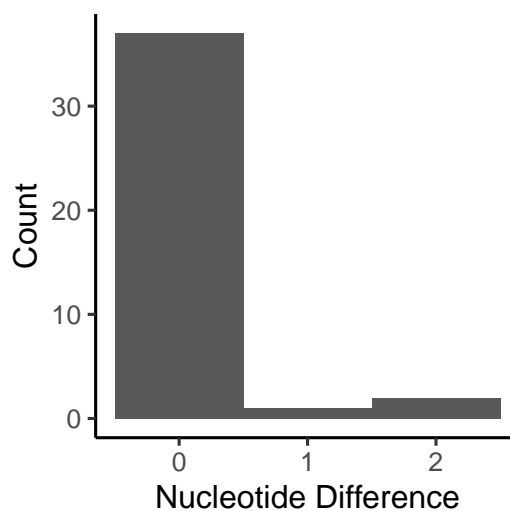
IGHV3-43D*04

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



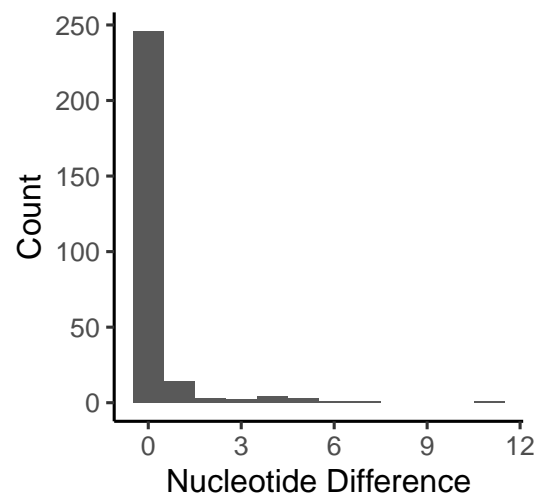
IGHV4-30-2*01

40 sequences assigned
37 (92.5%) exact matches, in which:
37 unique CDR3
5 unique J



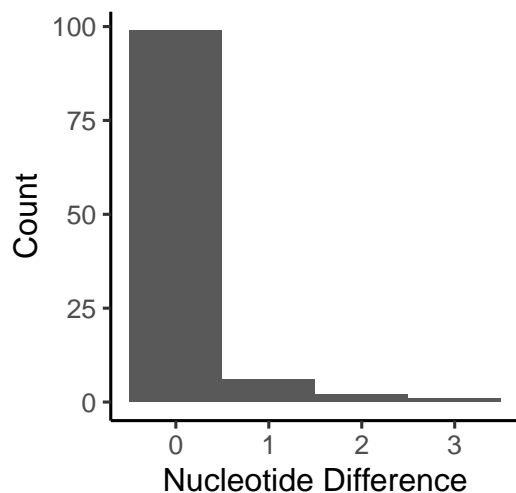
IGHV4-38-2*02_A70G

275 sequences assigned
246 (89.5%) exact matches, in which:
246 unique CDR3
6 unique J



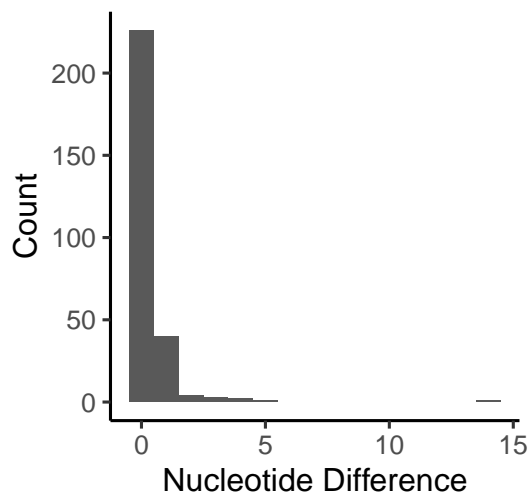
IGHV4-4*07

108 sequences assigned
99 (91.7%) exact matches, in which:
99 unique CDR3
6 unique J



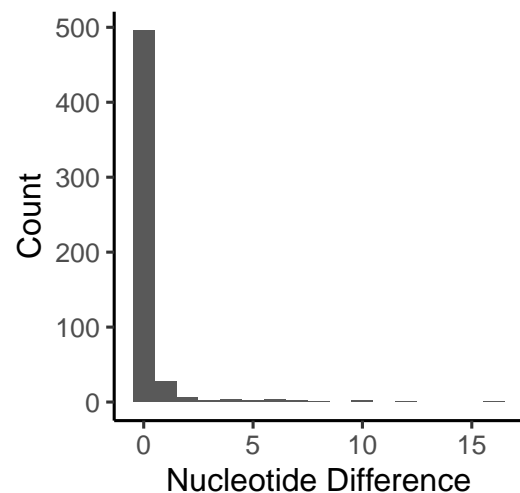
IGHV4-31*03

277 sequences assigned
226 (81.6%) exact matches, in which:
226 unique CDR3
6 unique J



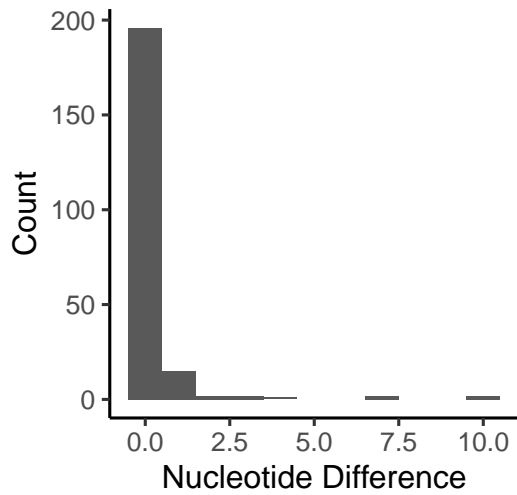
IGHV4-39*01

547 sequences assigned
496 (90.7%) exact matches, in which:
495 unique CDR3
6 unique J



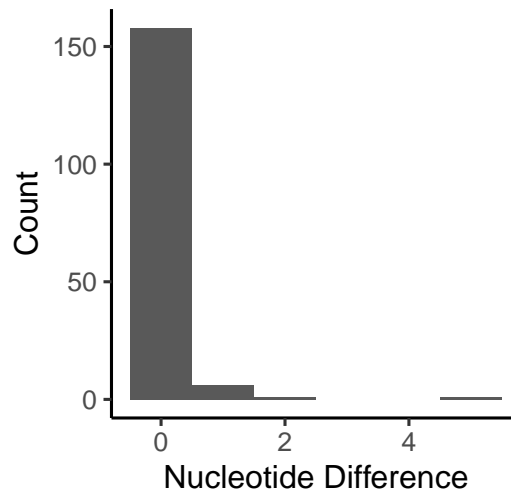
IGHV4–59*01

220 sequences assigned
196 (89.1%) exact matches, in which:
196 unique CDR3
6 unique J



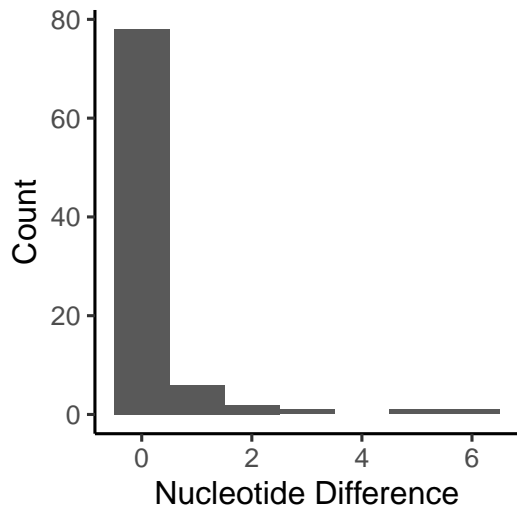
IGHV5–51*03

166 sequences assigned
158 (95.2%) exact matches, in which:
158 unique CDR3
6 unique J



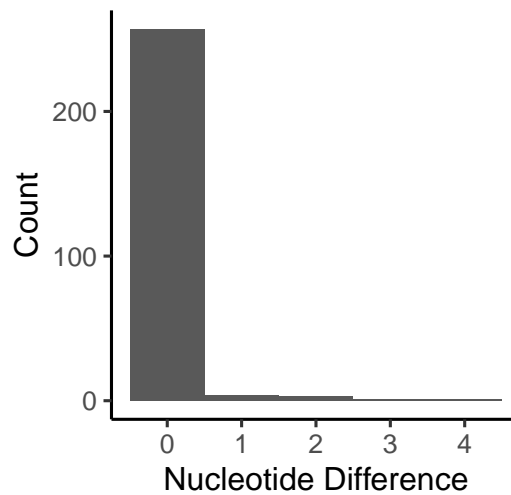
IGHV4–61*01

89 sequences assigned
78 (87.6%) exact matches, in which:
78 unique CDR3
5 unique J



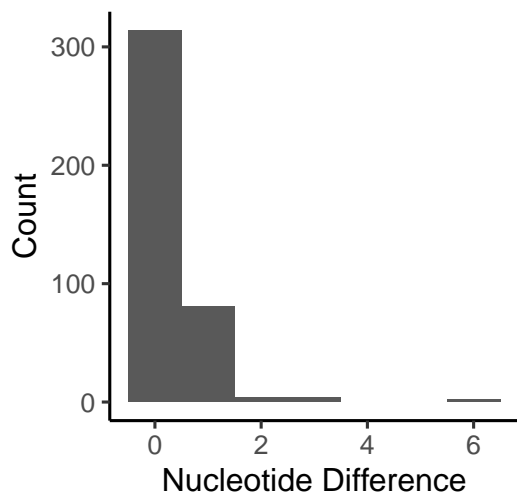
IGHV6–1*01

266 sequences assigned
257 (96.6%) exact matches, in which:
257 unique CDR3
6 unique J



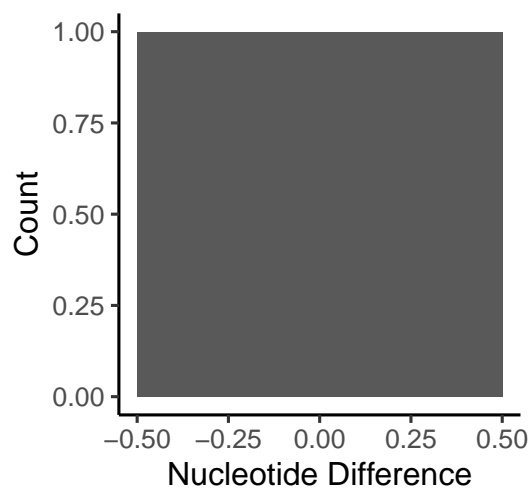
IGHV5–51*01

405 sequences assigned
314 (77.5%) exact matches, in which:
313 unique CDR3
6 unique J

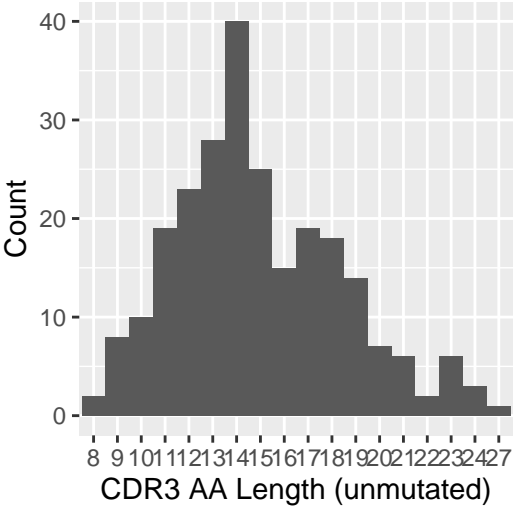


IGHV7–81*01

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



IGHV4-38-2*02_A70G





[illegible]