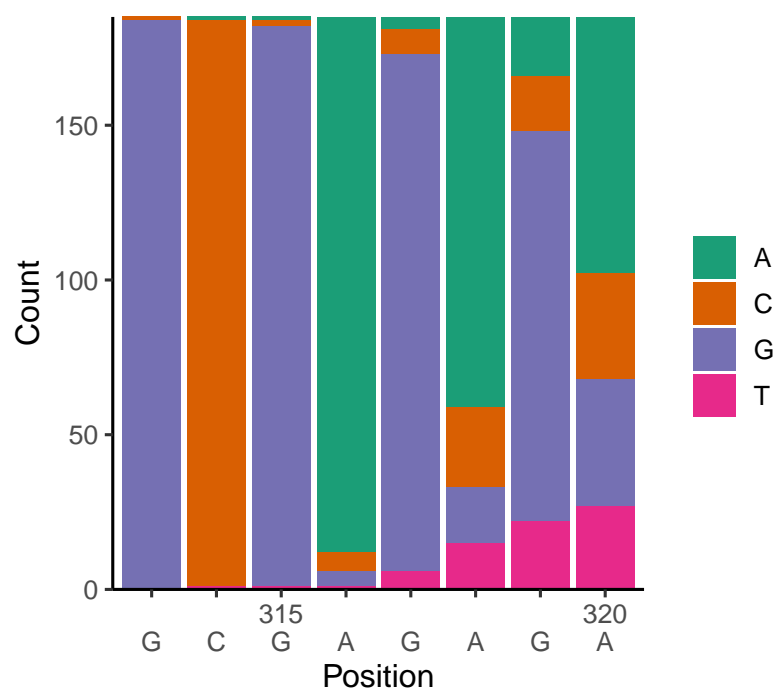
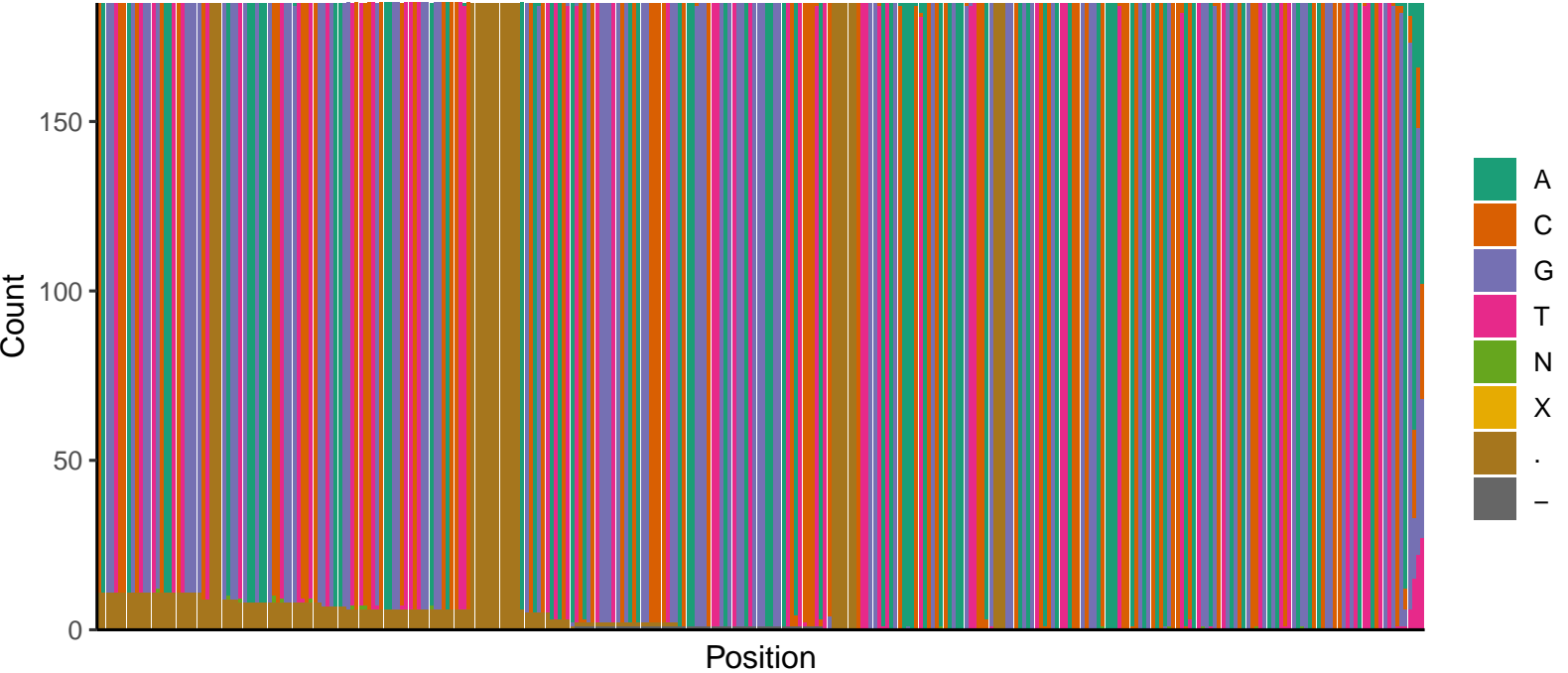


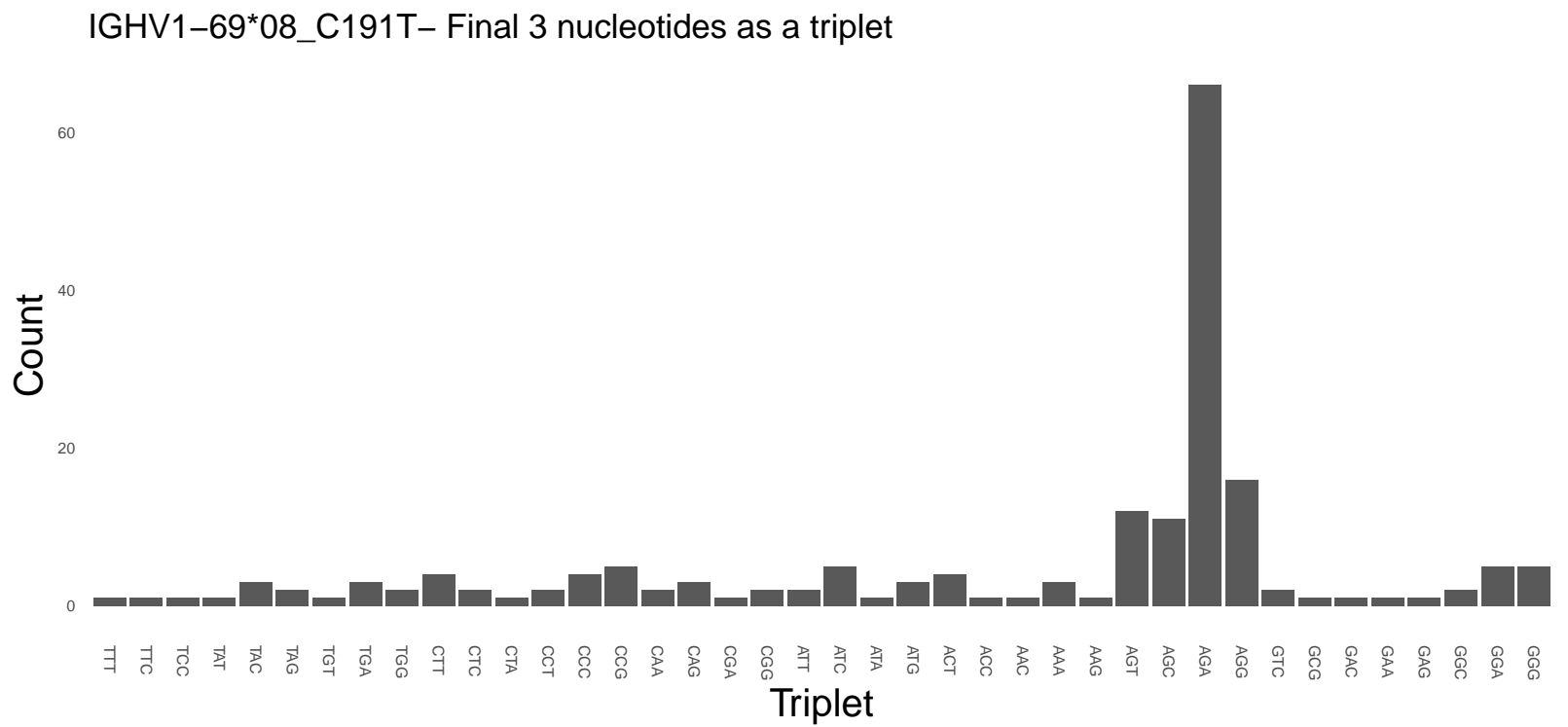
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

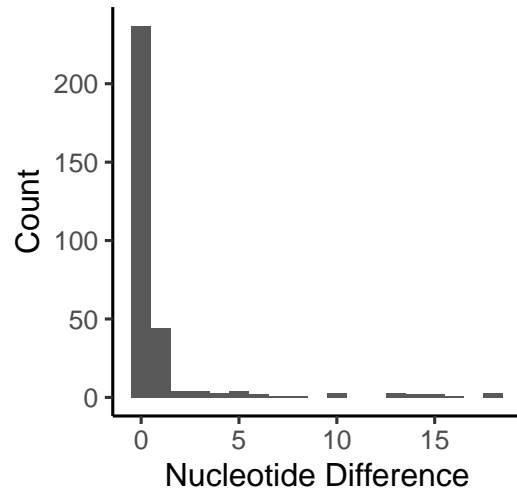


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



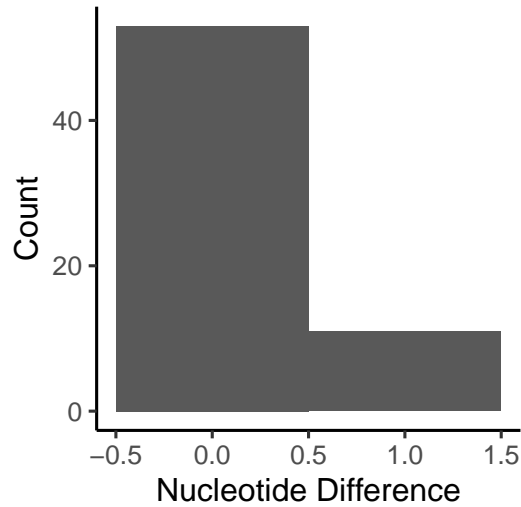
IGHV1–2*02

316 sequences assigned
237 (75%) exact matches, in which:
235 unique CDR3
5 unique J



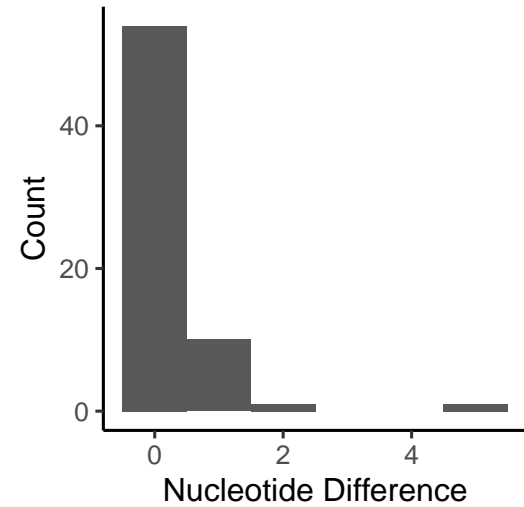
IGHV1–24*01

64 sequences assigned
53 (82.8%) exact matches, in which:
53 unique CDR3
4 unique J



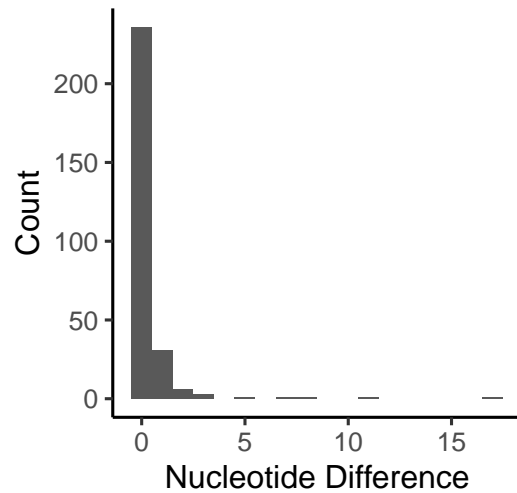
IGHV1–46*03

67 sequences assigned
54 (80.6%) exact matches, in which:
53 unique CDR3
6 unique J



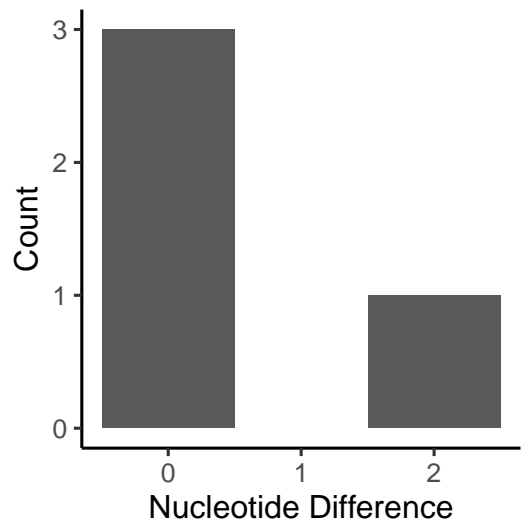
IGHV1–8*01

281 sequences assigned
236 (84%) exact matches, in which:
233 unique CDR3
6 unique J



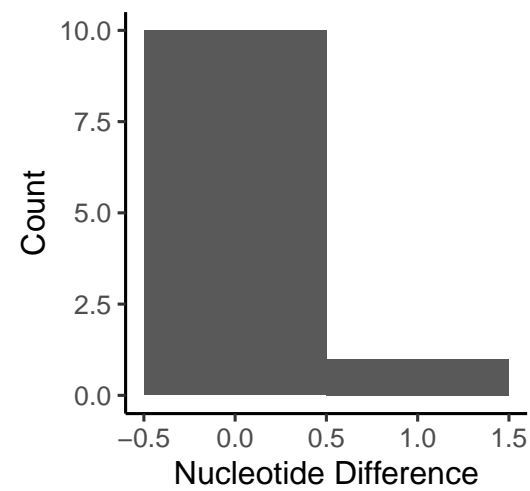
IGHV1–45*02

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



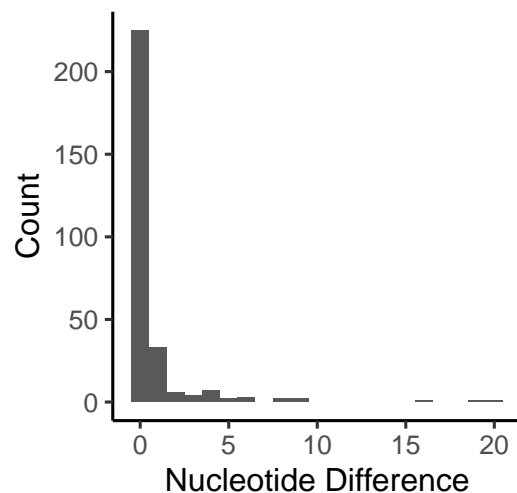
IGHV1–58*01

11 sequences assigned
10 (90.9%) exact matches, in which:
10 unique CDR3
5 unique J



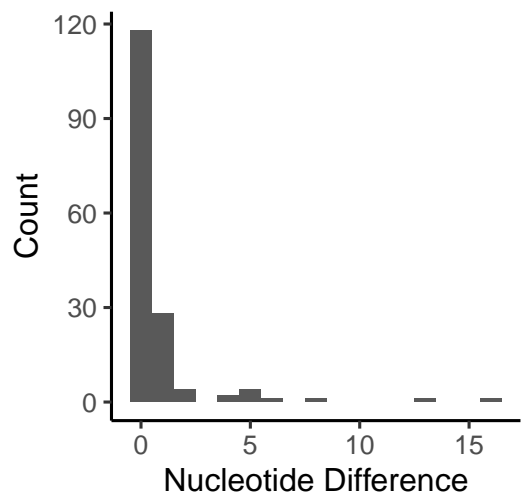
IGHV1–18*01

288 sequences assigned
225 (78.1%) exact matches, in which:
222 unique CDR3
6 unique J



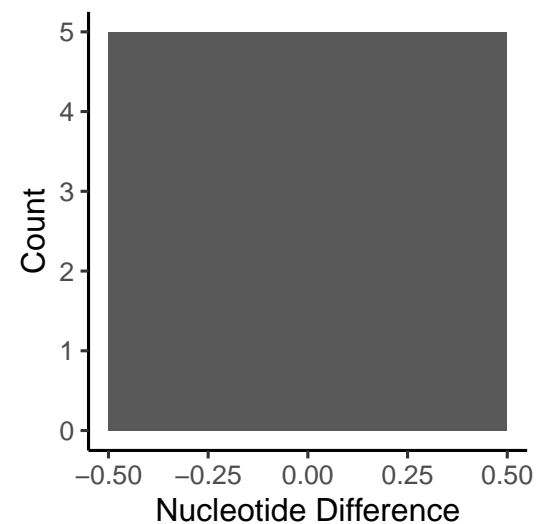
IGHV1–46*01

162 sequences assigned
118 (72.8%) exact matches, in which:
118 unique CDR3
6 unique J



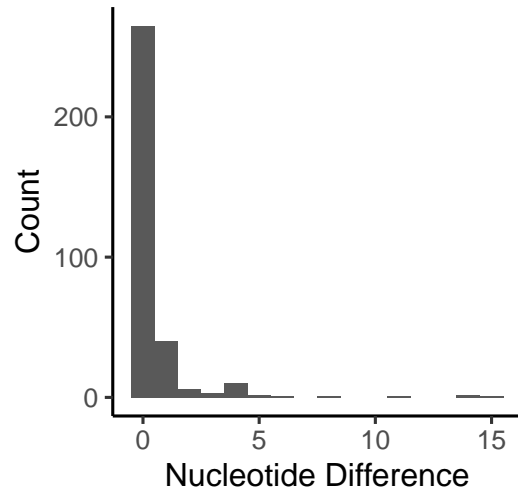
IGHV1–58*02

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



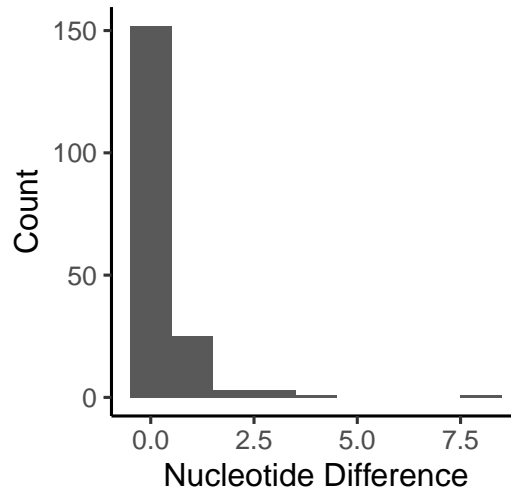
IGHV1–69*01

332 sequences assigned
265 (79.8%) exact matches, in which:
261 unique CDR3
6 unique J



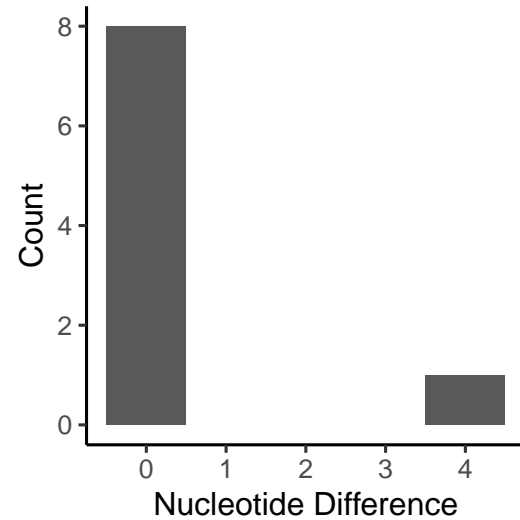
IGHV1–69*08_C191T

185 sequences assigned
152 (82.2%) exact matches, in which:
148 unique CDR3
6 unique J



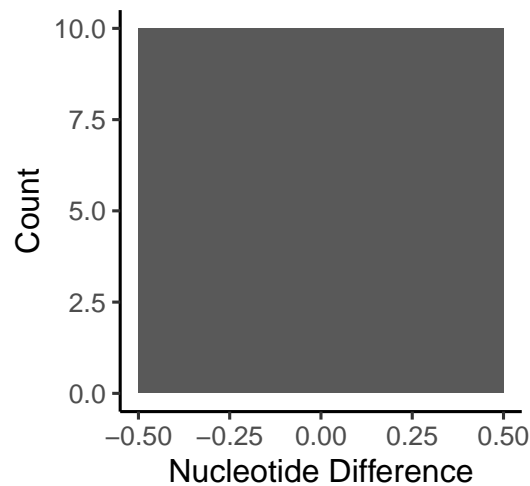
IGHV2–70*01

9 sequences assigned
8 (88.9%) exact matches, in which:
8 unique CDR3
5 unique J



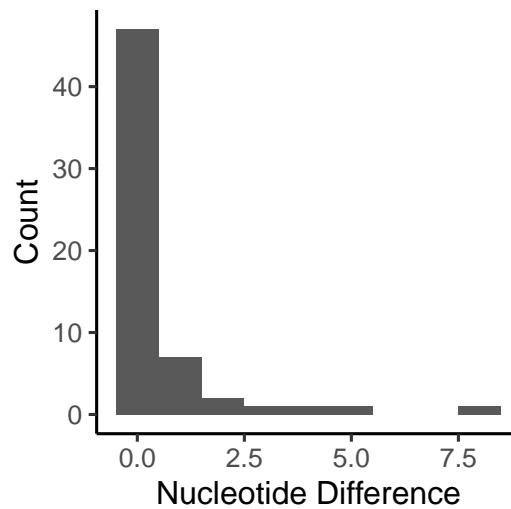
IGHV1–69–2*01

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



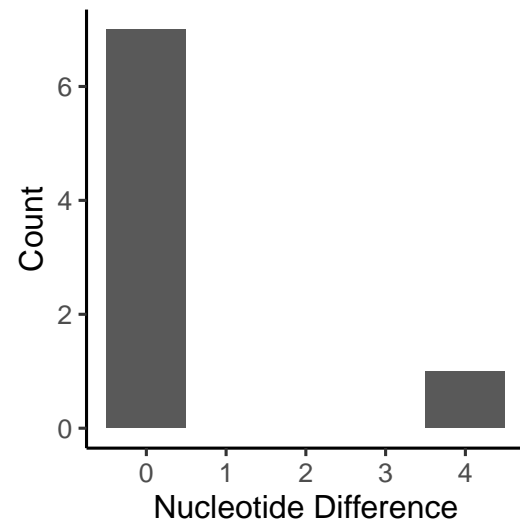
IGHV2–5*01

60 sequences assigned
47 (78.3%) exact matches, in which:
47 unique CDR3
4 unique J



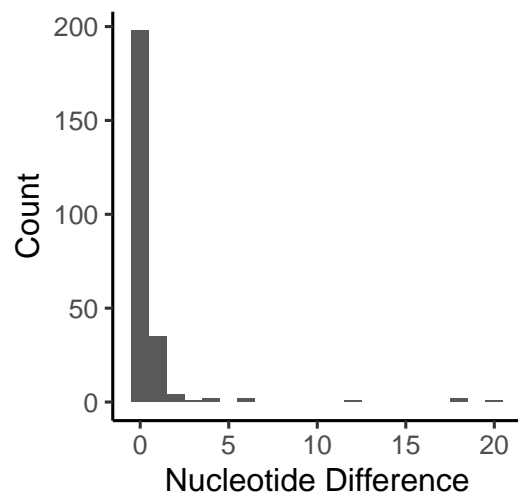
IGHV2–70*04

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



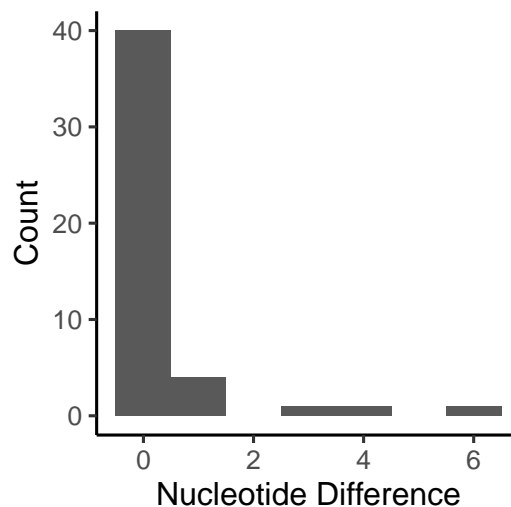
IGHV1–69*06

246 sequences assigned
198 (80.5%) exact matches, in which:
196 unique CDR3
6 unique J



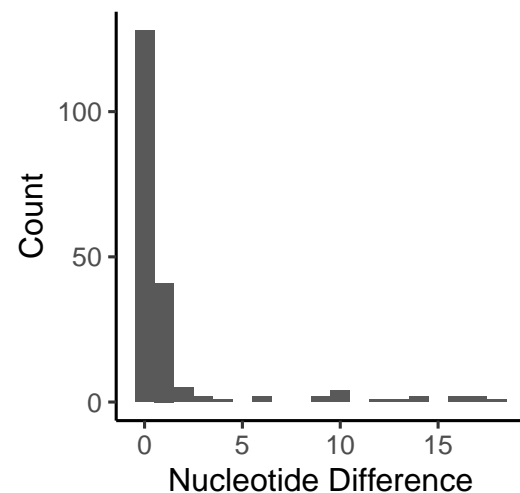
IGHV2–26*01

47 sequences assigned
40 (85.1%) exact matches, in which:
39 unique CDR3
4 unique J



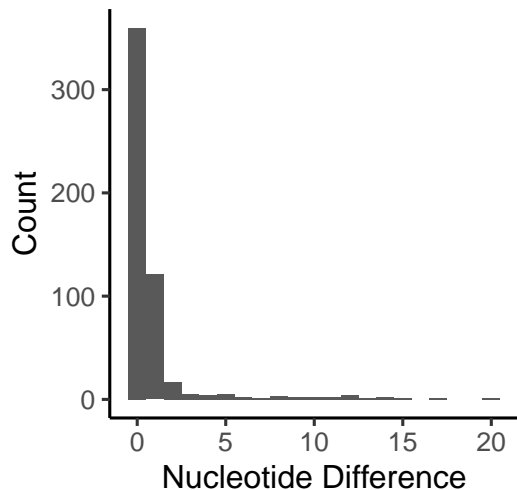
IGHV3–7*01

196 sequences assigned
128 (65.3%) exact matches, in which:
126 unique CDR3
6 unique J



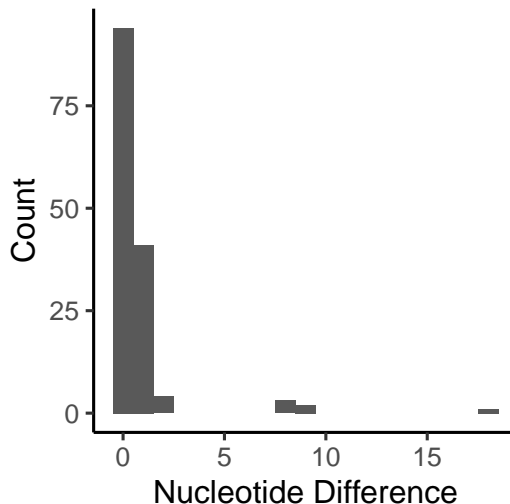
IGHV3–9*01

535 sequences assigned
360 (67.3%) exact matches, in which:
356 unique CDR3
6 unique J



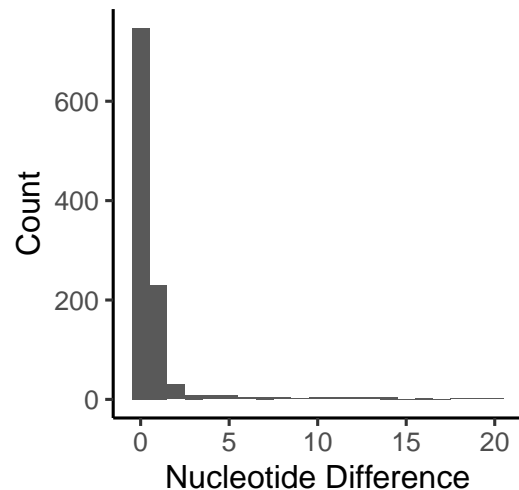
IGHV3–15*01

147 sequences assigned
94 (63.9%) exact matches, in which:
93 unique CDR3
6 unique J



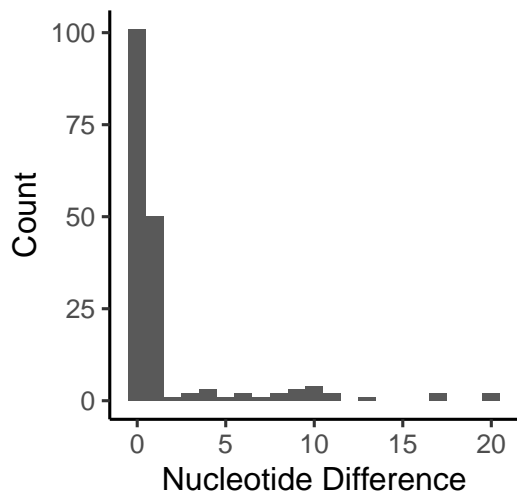
IGHV3–23*01

1093 sequences assigned
748 (68.4%) exact matches, in which:
743 unique CDR3
6 unique J



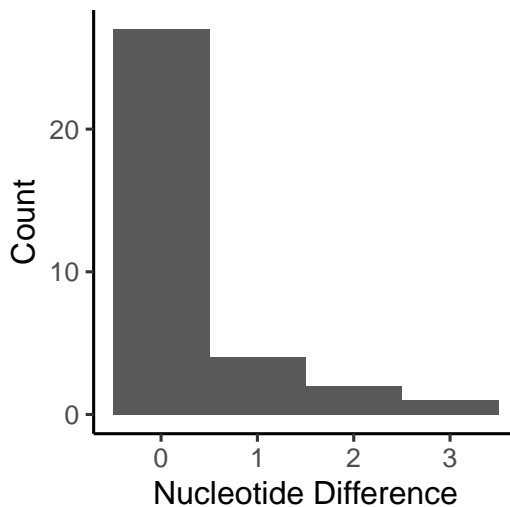
IGHV3–11*01

177 sequences assigned
101 (57.1%) exact matches, in which:
101 unique CDR3
6 unique J



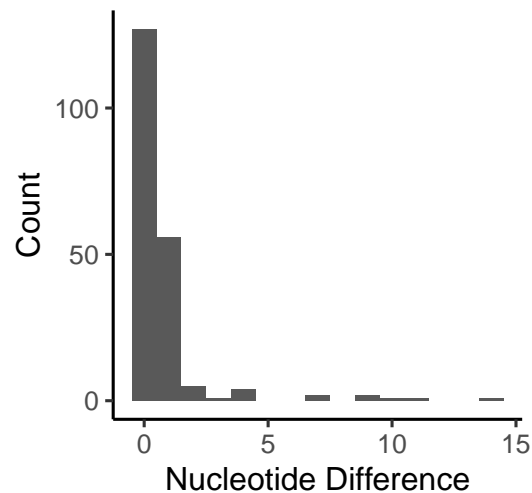
IGHV3–20*01

34 sequences assigned
27 (79.4%) exact matches, in which:
24 unique CDR3
5 unique J



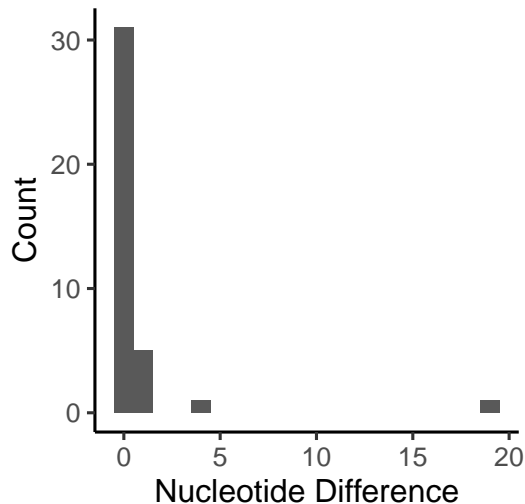
IGHV3–30*03

201 sequences assigned
127 (63.2%) exact matches, in which:
125 unique CDR3
6 unique J



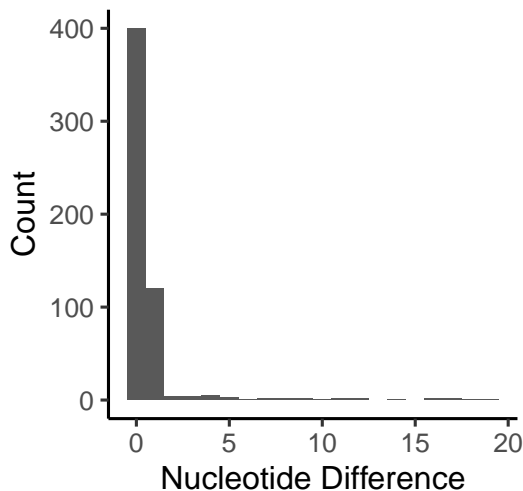
IGHV3–13*01

40 sequences assigned
31 (77.5%) exact matches, in which:
31 unique CDR3
5 unique J



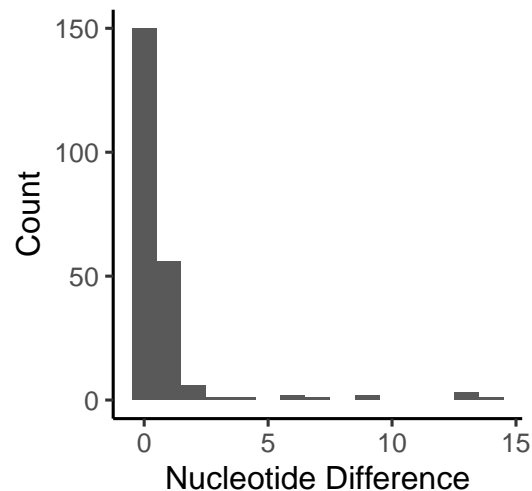
IGHV3–21*01

566 sequences assigned
400 (70.7%) exact matches, in which:
395 unique CDR3
6 unique J



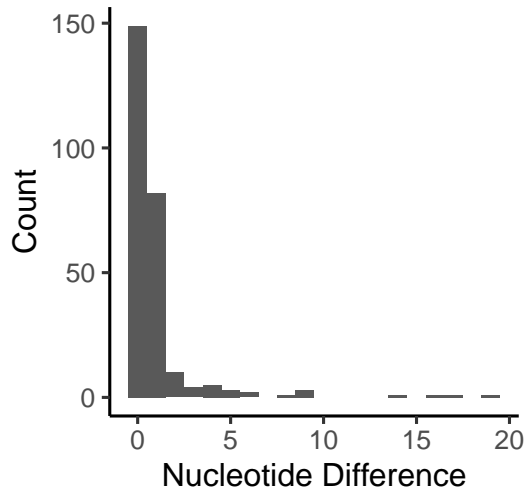
IGHV3–30*18

223 sequences assigned
150 (67.3%) exact matches, in which:
147 unique CDR3
6 unique J



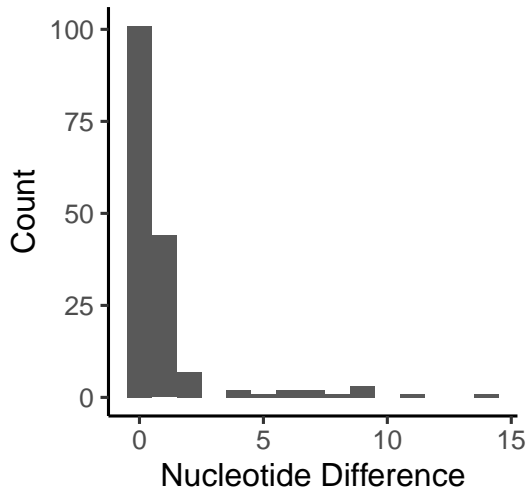
IGHV3–33*01

263 sequences assigned
149 (56.7%) exact matches, in which:
147 unique CDR3
6 unique J



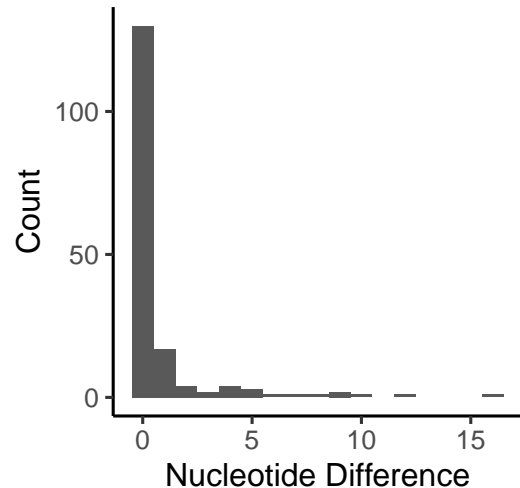
IGHV3–48*02

165 sequences assigned
101 (61.2%) exact matches, in which:
99 unique CDR3
6 unique J



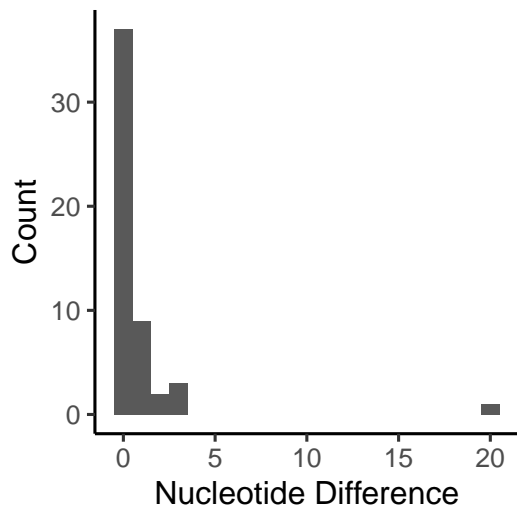
IGHV3–53*01

168 sequences assigned
130 (77.4%) exact matches, in which:
130 unique CDR3
6 unique J



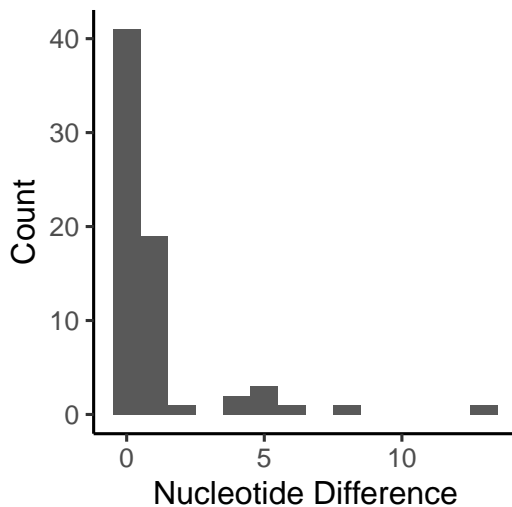
IGHV3–43*01

52 sequences assigned
37 (71.2%) exact matches, in which:
37 unique CDR3
4 unique J



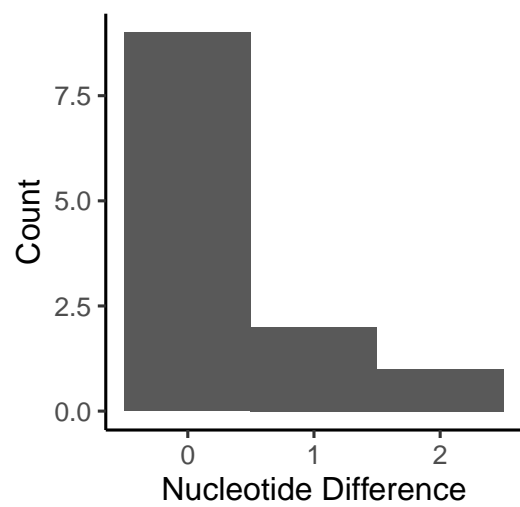
IGHV3–49*05

70 sequences assigned
41 (58.6%) exact matches, in which:
41 unique CDR3
4 unique J



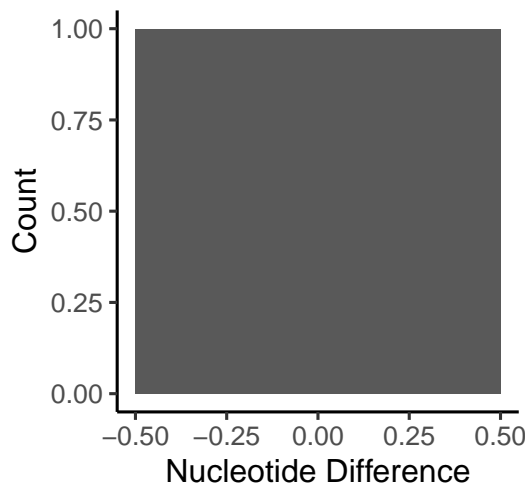
IGHV3–64*01

12 sequences assigned
9 (75%) exact matches, in which:
9 unique CDR3
3 unique J



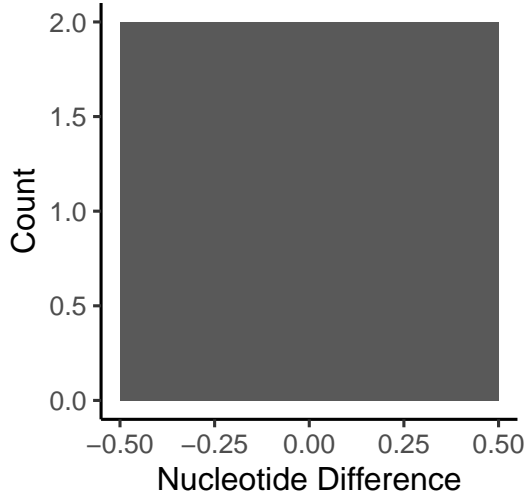
IGHV3–47*02

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



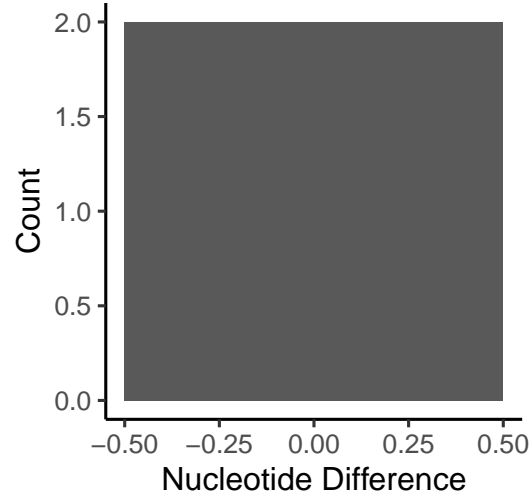
IGHV3–52*01

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



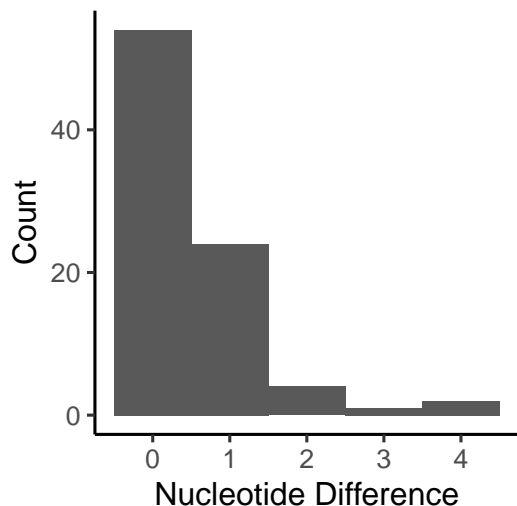
IGHV3–64*02

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



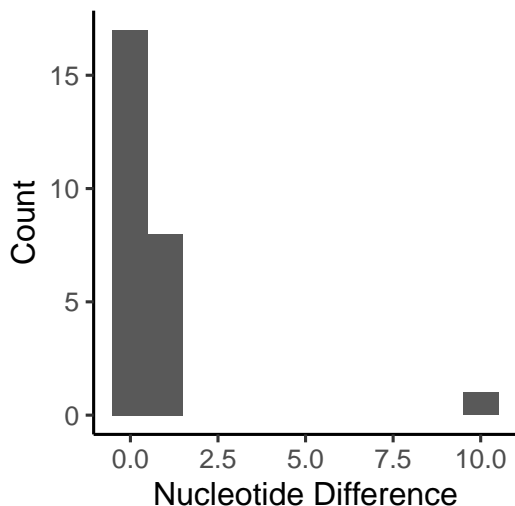
IGHV3-66*02

85 sequences assigned
54 (63.5%) exact matches, in which:
54 unique CDR3
6 unique J



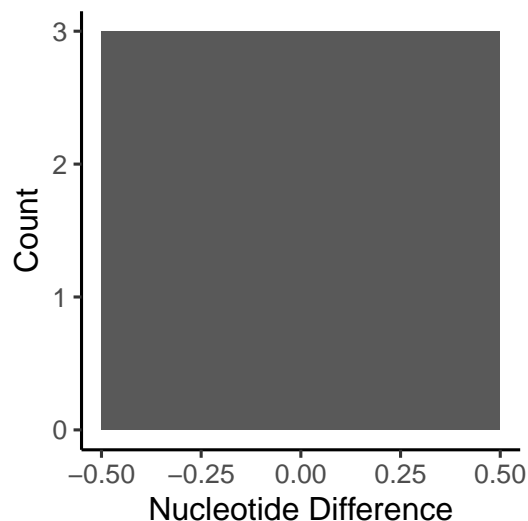
IGHV3-73*02

26 sequences assigned
17 (65.4%) exact matches, in which:
16 unique CDR3
3 unique J



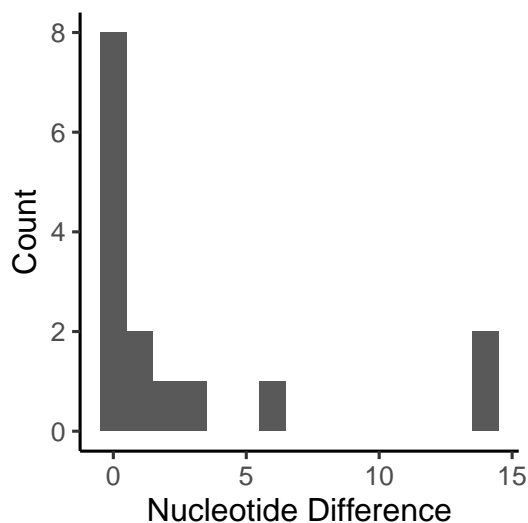
IGHV4-28*01

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



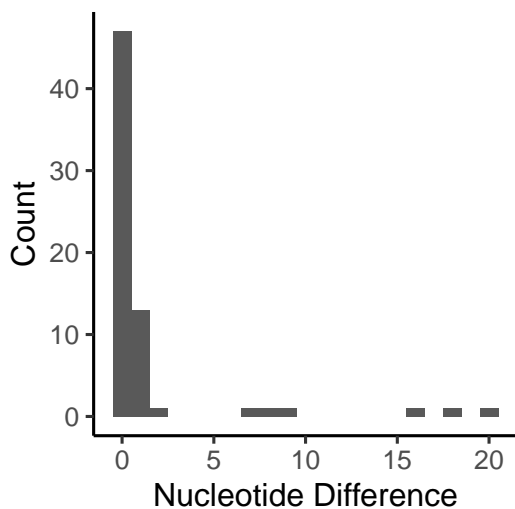
IGHV3-72*01

15 sequences assigned
8 (53.3%) exact matches, in which:
8 unique CDR3
3 unique J



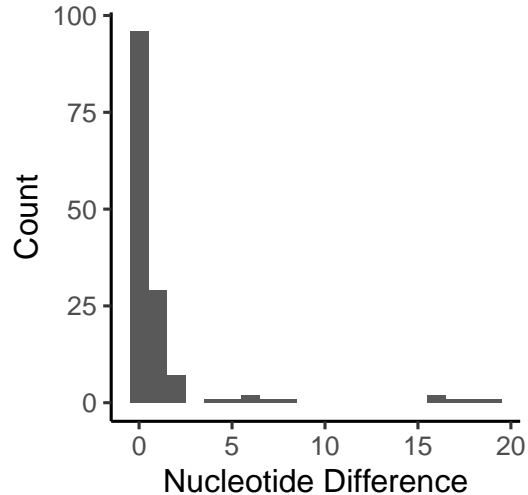
IGHV3-74*01

67 sequences assigned
47 (70.1%) exact matches, in which:
47 unique CDR3
4 unique J



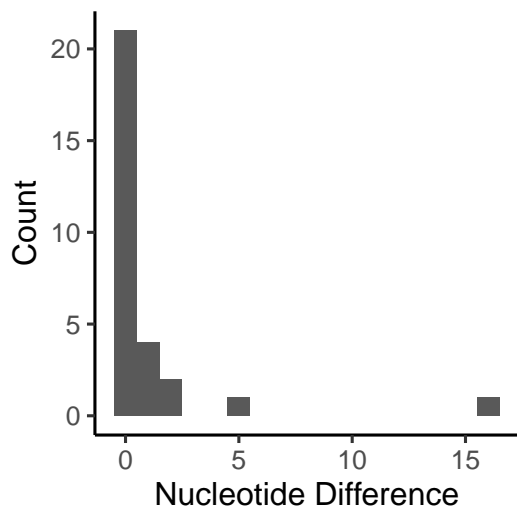
IGHV4-31*03

143 sequences assigned
96 (67.1%) exact matches, in which:
96 unique CDR3
6 unique J



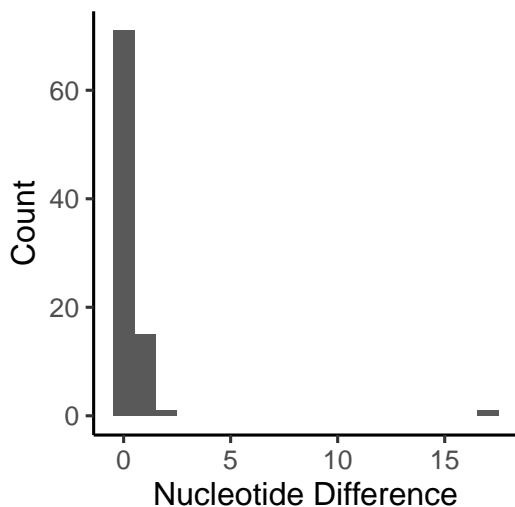
IGHV3-73*01

29 sequences assigned
21 (72.4%) exact matches, in which:
20 unique CDR3
4 unique J



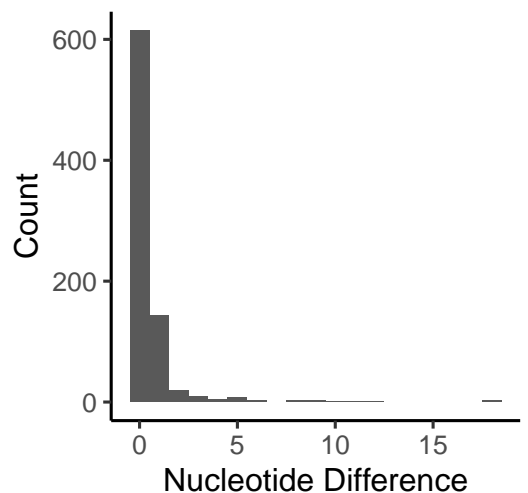
IGHV4-4*07

91 sequences assigned
71 (78%) exact matches, in which:
69 unique CDR3
5 unique J



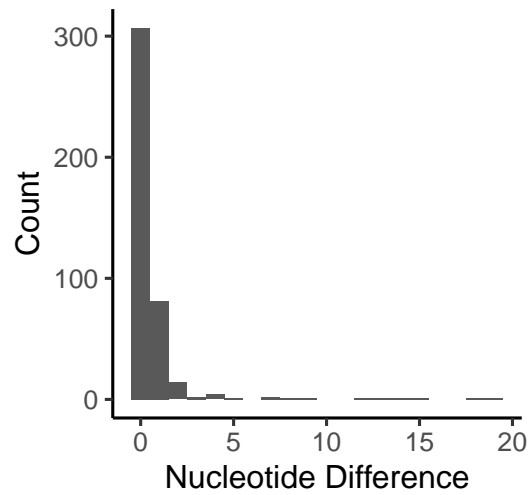
IGHV4-34*01

815 sequences assigned
615 (75.5%) exact matches, in which:
606 unique CDR3
6 unique J



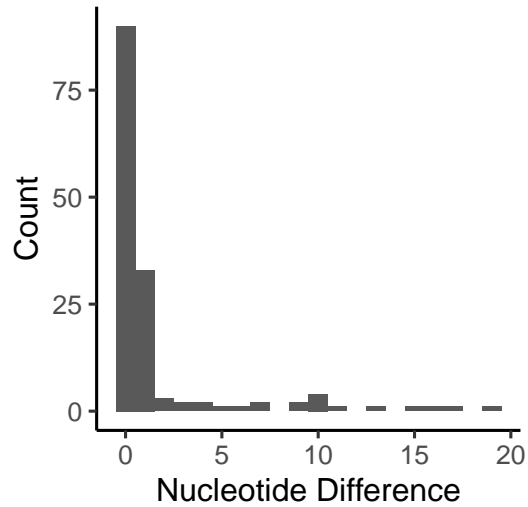
IGHV4-39*01

421 sequences assigned
307 (72.9%) exact matches, in which:
302 unique CDR3
6 unique J



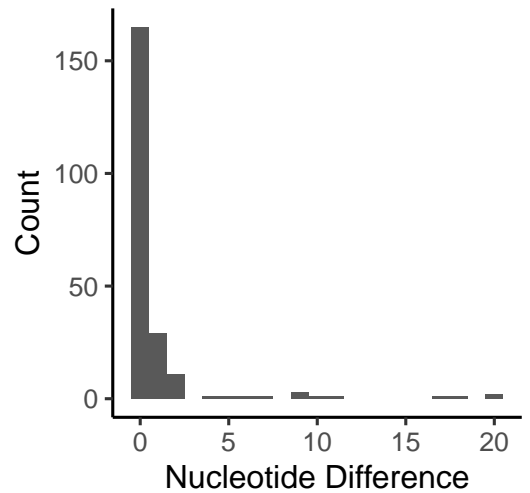
IGHV4-61*02

146 sequences assigned
90 (61.6%) exact matches, in which:
89 unique CDR3
6 unique J



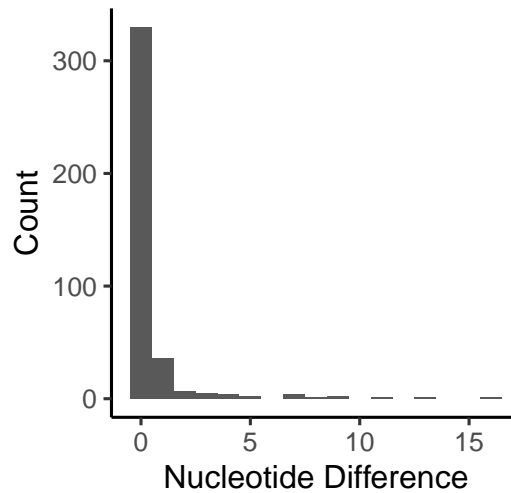
IGHV4-59*01

221 sequences assigned
165 (74.7%) exact matches, in which:
163 unique CDR3
6 unique J



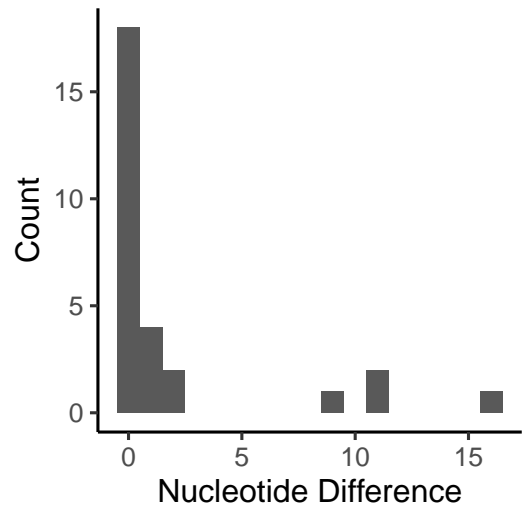
IGHV5-51*01

397 sequences assigned
330 (83.1%) exact matches, in which:
327 unique CDR3
6 unique J



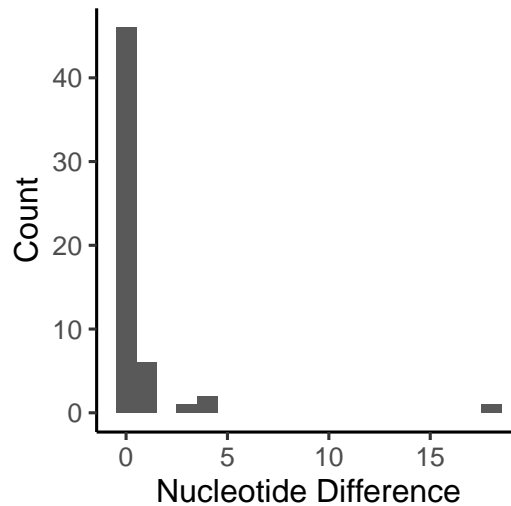
IGHV4-61*01

28 sequences assigned
18 (64.3%) exact matches, in which:
18 unique CDR3
5 unique J



IGHV6-1*01

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



IGHV1-69*08_C191T

