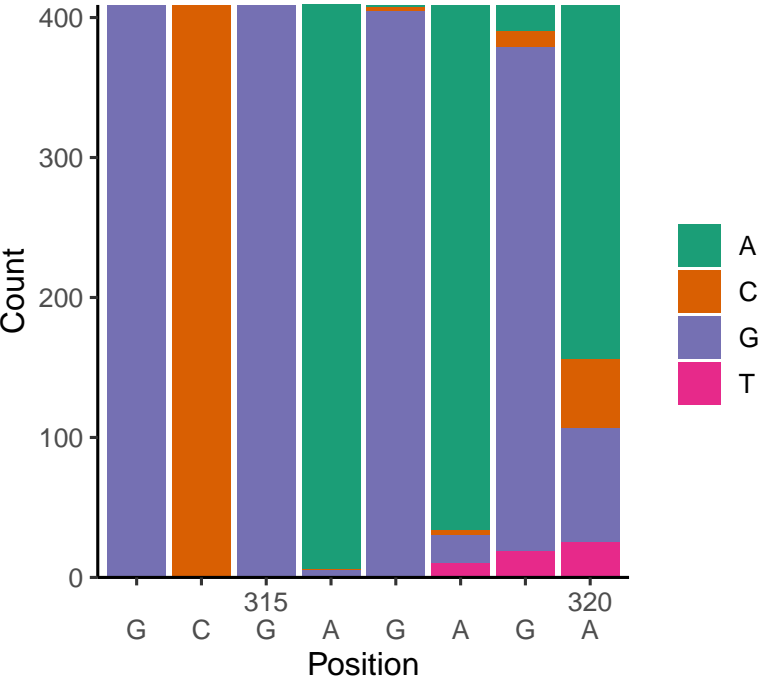
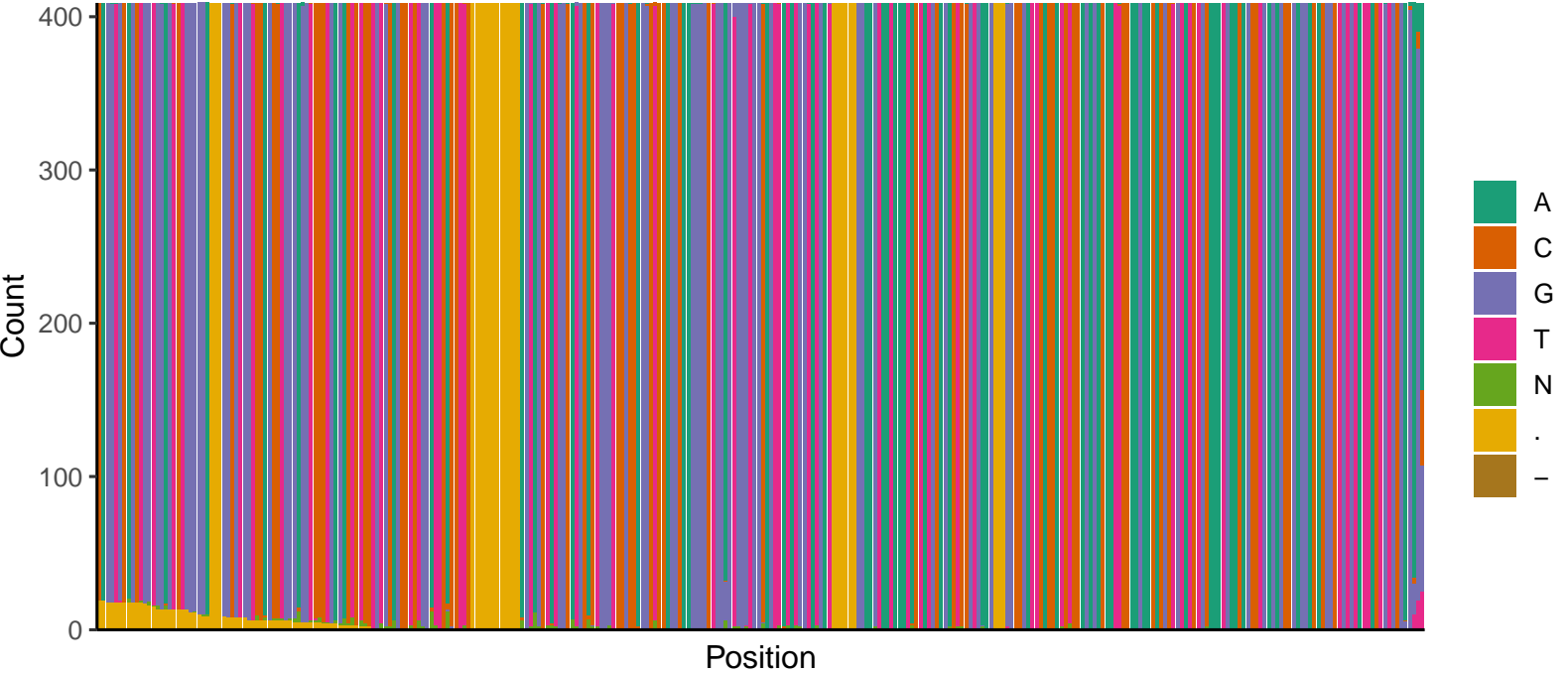


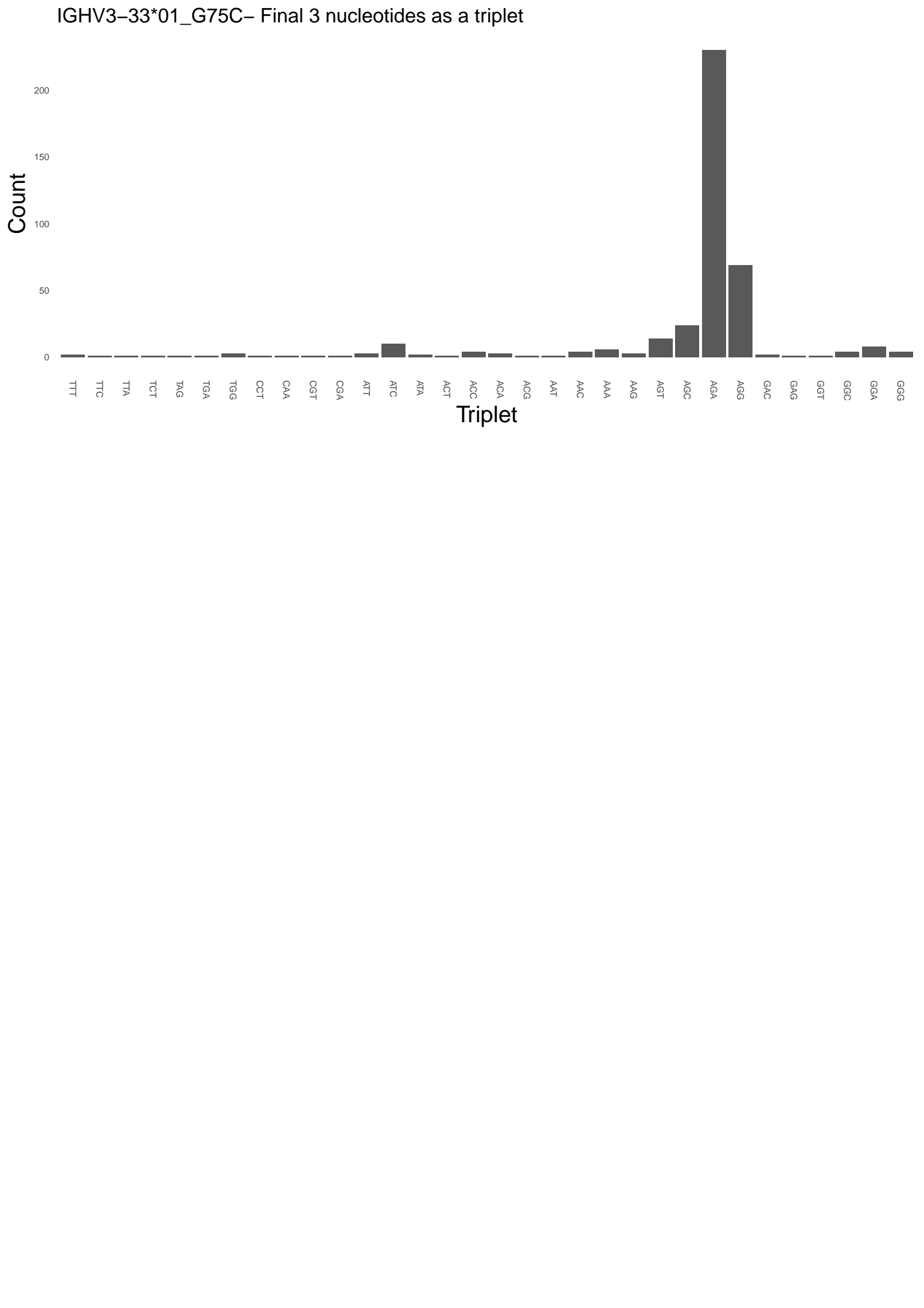
Gene IGHV3-33*01_G75C



Gene IGHV3-33*01_G75C

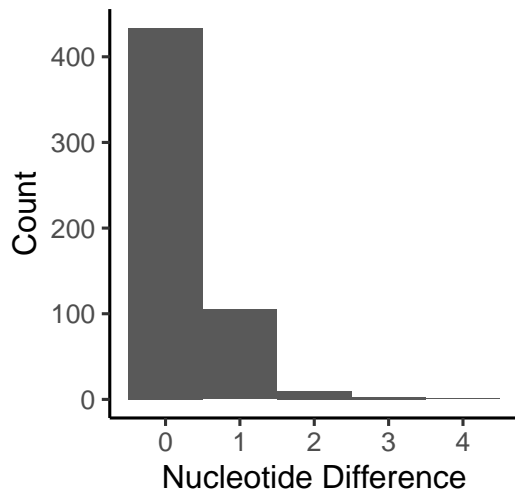


IGHV3-33*01_G75C- Final 3 nucleotides as a triplet



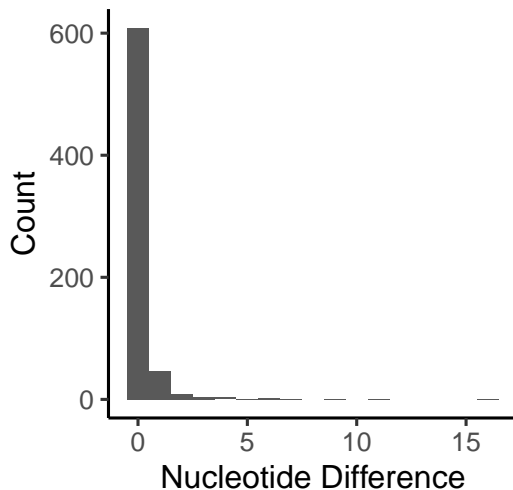
IGHV1-2*02

553 sequences assigned
434 (78.5%) exact matches, in which:
428 unique CDR3
6 unique J



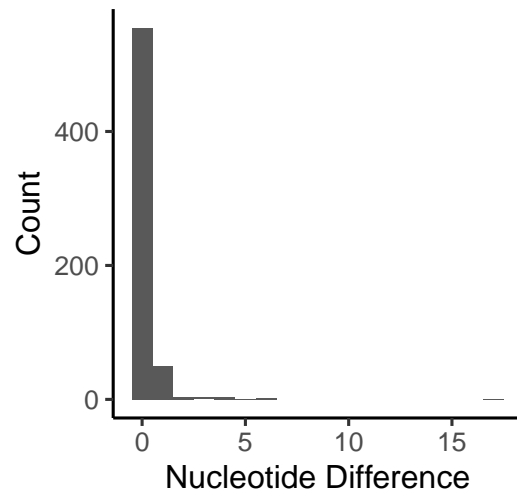
IGHV1-18*04

679 sequences assigned
609 (89.7%) exact matches, in which:
602 unique CDR3
7 unique J



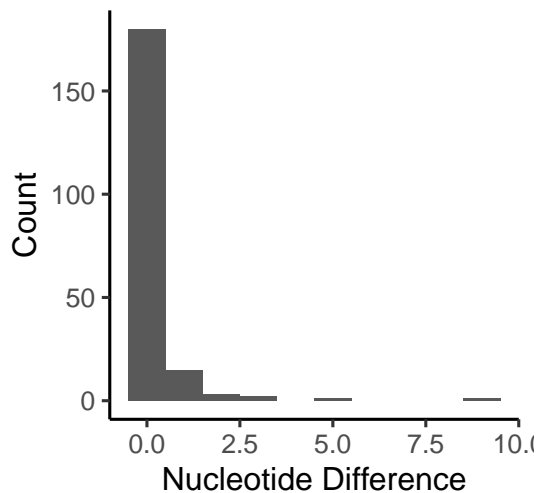
IGHV1-46*01

621 sequences assigned
555 (89.4%) exact matches, in which:
552 unique CDR3
7 unique J



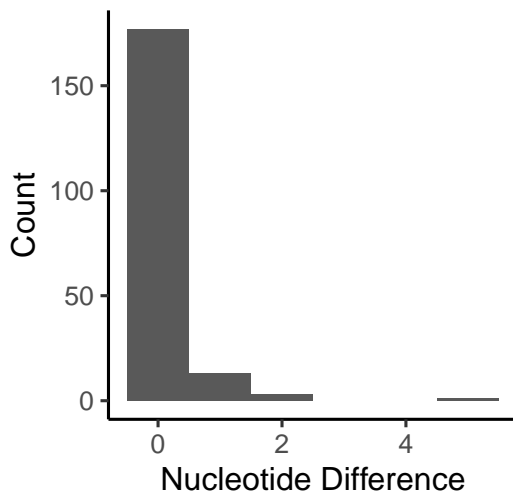
IGHV1-3*01

203 sequences assigned
180 (88.7%) exact matches, in which:
178 unique CDR3
6 unique J



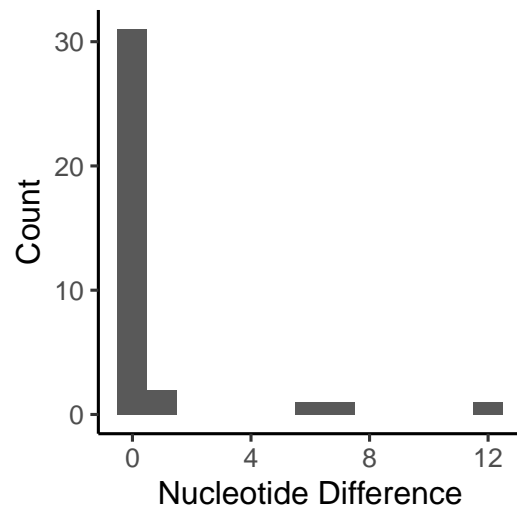
IGHV1-24*01

194 sequences assigned
177 (91.2%) exact matches, in which:
175 unique CDR3
7 unique J



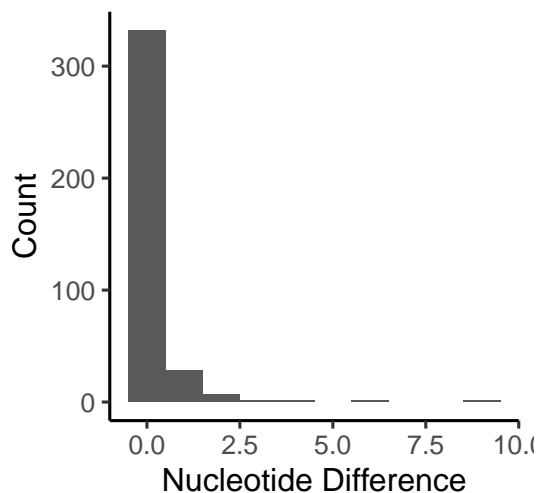
IGHV1-58*01

38 sequences assigned
31 (81.6%) exact matches, in which:
31 unique CDR3
6 unique J



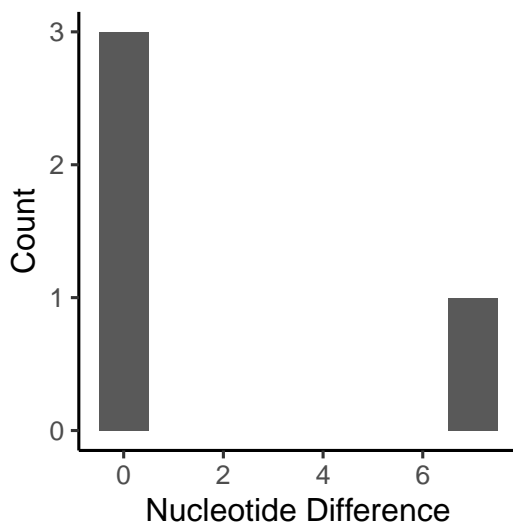
IGHV1-8*01

373 sequences assigned
332 (89%) exact matches, in which:
328 unique CDR3
7 unique J



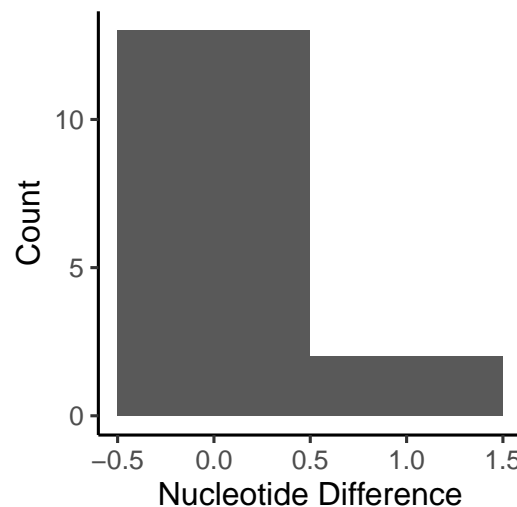
IGHV1-45*02

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



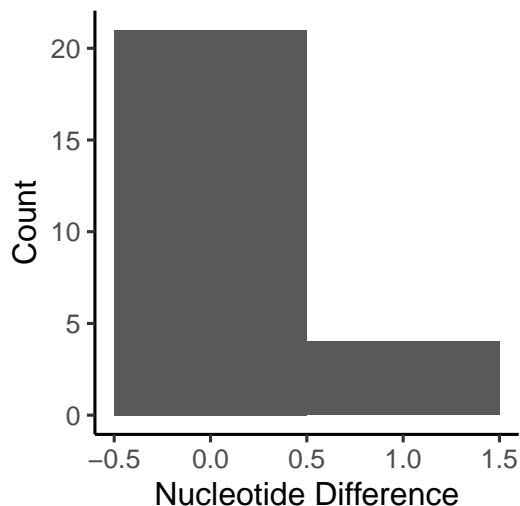
IGHV1-58*02

15 sequences assigned
13 (86.7%) exact matches, in which:
13 unique CDR3
4 unique J



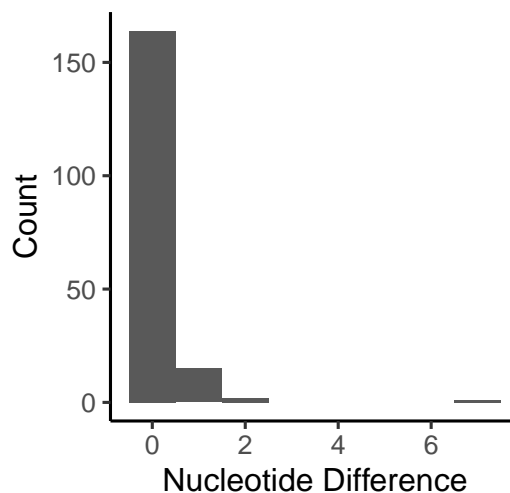
IGHV1-69-2*01

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



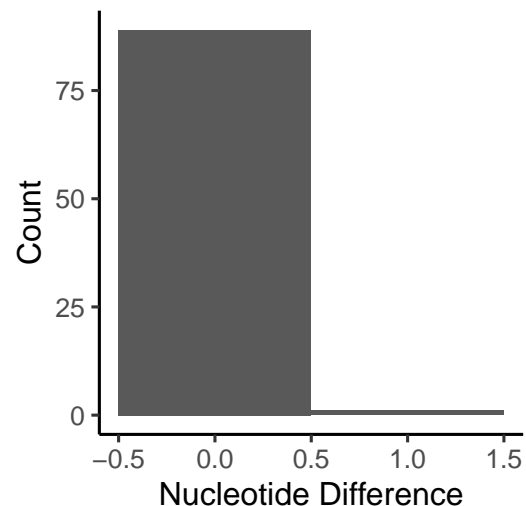
IGHV2-5*01

184 sequences assigned
164 (89.1%) exact matches, in which:
163 unique CDR3
6 unique J



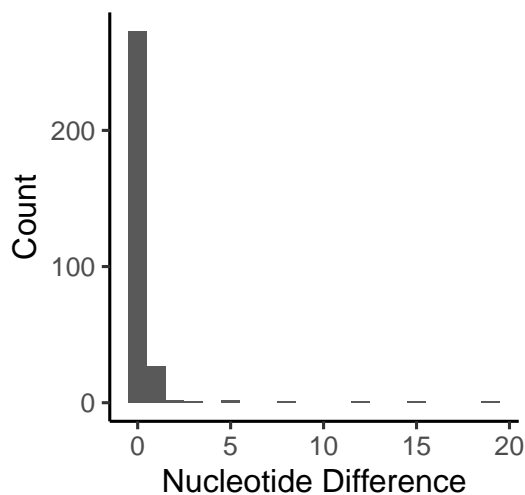
IGHV2-70*15

90 sequences assigned
89 (98.9%) exact matches, in which:
89 unique CDR3
6 unique J



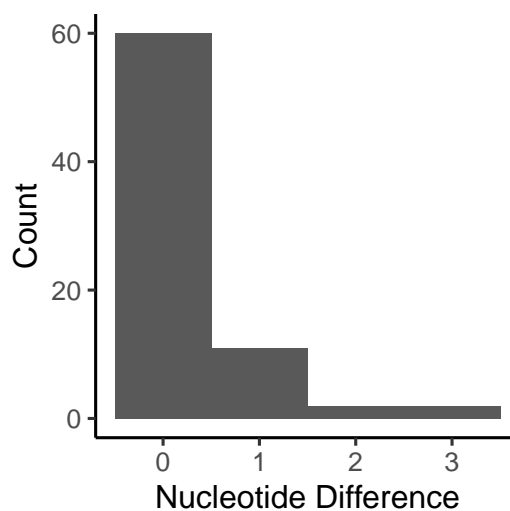
IGHV1-69*04

309 sequences assigned
273 (88.3%) exact matches, in which:
270 unique CDR3
6 unique J



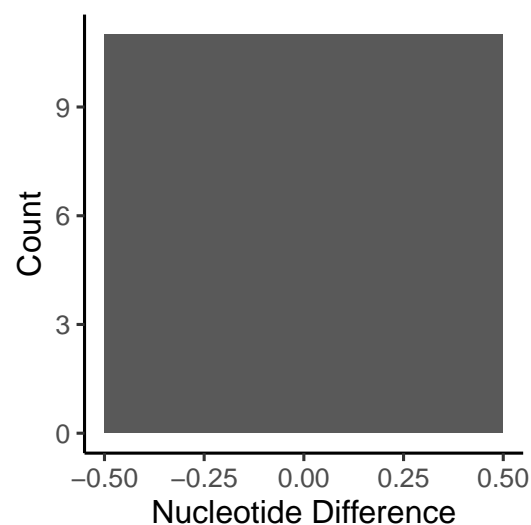
IGHV2-5*02

76 sequences assigned
60 (78.9%) exact matches, in which:
60 unique CDR3
4 unique J



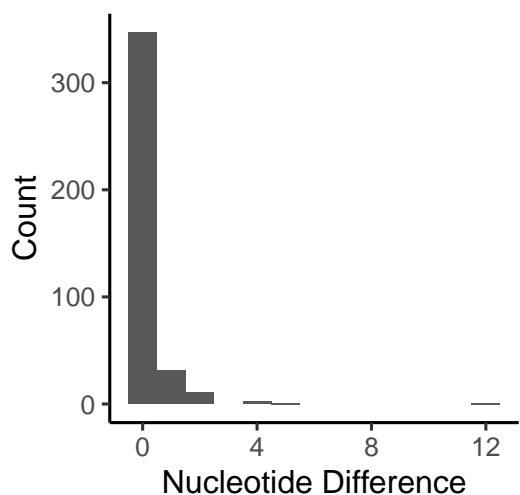
IGHV2-70D*04

11 sequences assigned
11 (100%) exact matches, in which:
11 unique CDR3
3 unique J



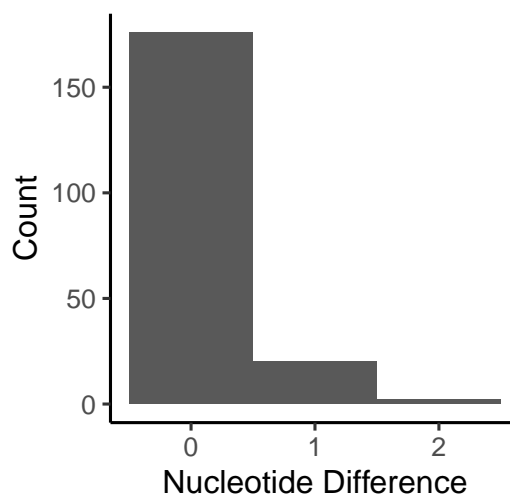
IGHV1-69*06

393 sequences assigned
347 (88.3%) exact matches, in which:
343 unique CDR3
6 unique J



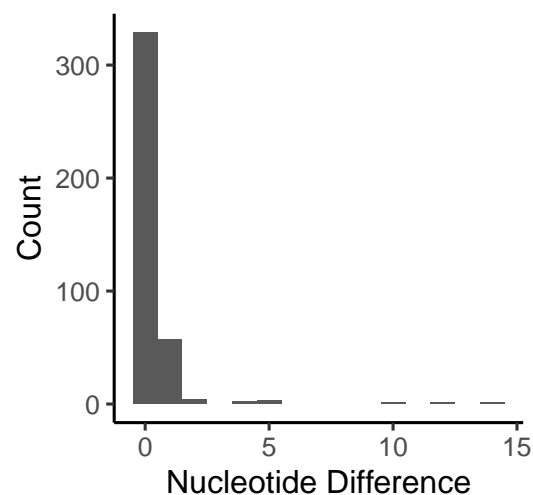
IGHV2-26*01

198 sequences assigned
176 (88.9%) exact matches, in which:
176 unique CDR3
7 unique J



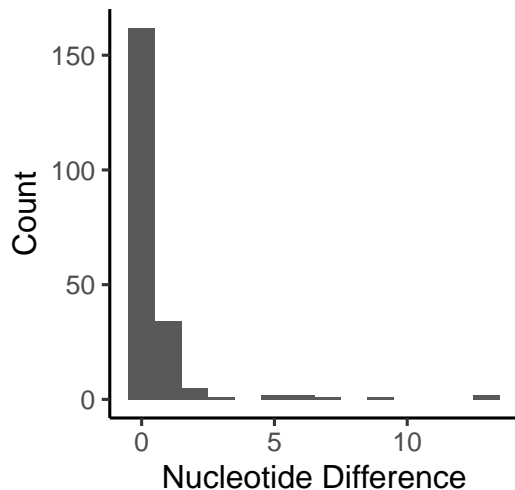
IGHV3-7*01

399 sequences assigned
329 (82.5%) exact matches, in which:
325 unique CDR3
7 unique J



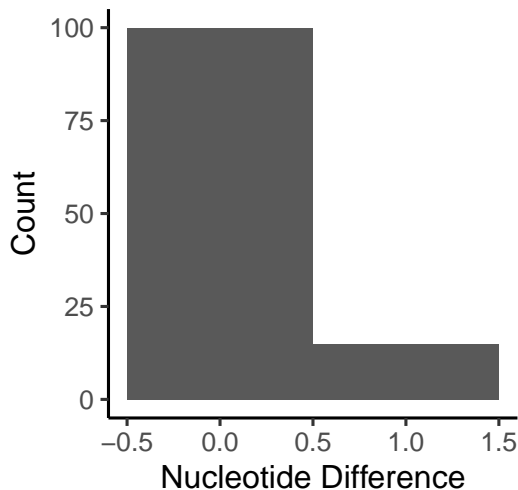
IGHV3-7*03

213 sequences assigned
162 (76.1%) exact matches, in which:
161 unique CDR3
6 unique J



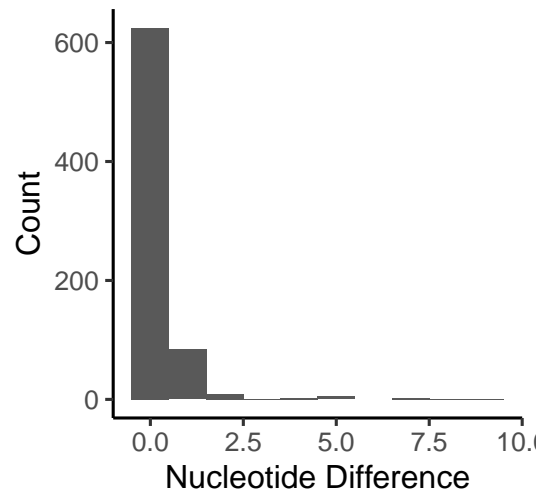
IGHV3-11*06

115 sequences assigned
100 (87%) exact matches, in which:
99 unique CDR3
5 unique J



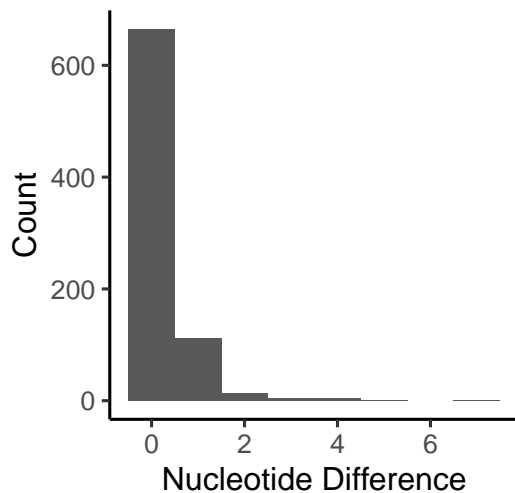
IGHV3-15*01

732 sequences assigned
625 (85.4%) exact matches, in which:
620 unique CDR3
7 unique J



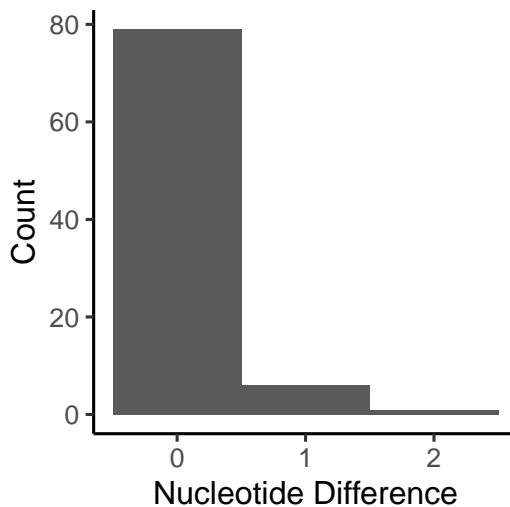
IGHV3-9*01

800 sequences assigned
665 (83.1%) exact matches, in which:
658 unique CDR3
6 unique J



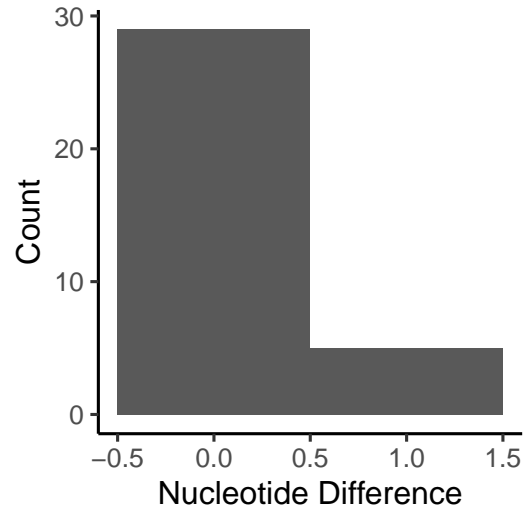
IGHV3-13*01

86 sequences assigned
79 (91.9%) exact matches, in which:
78 unique CDR3
5 unique J



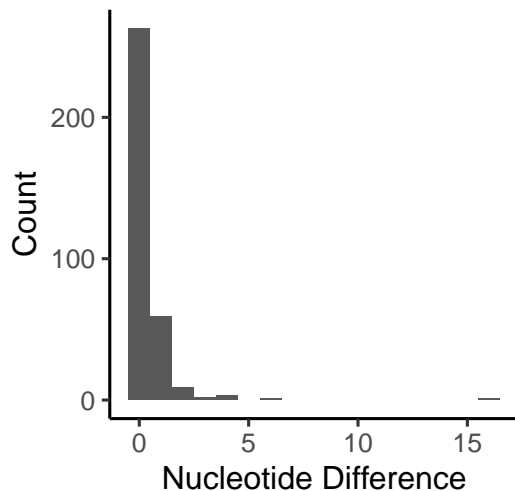
IGHV3-20*01

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



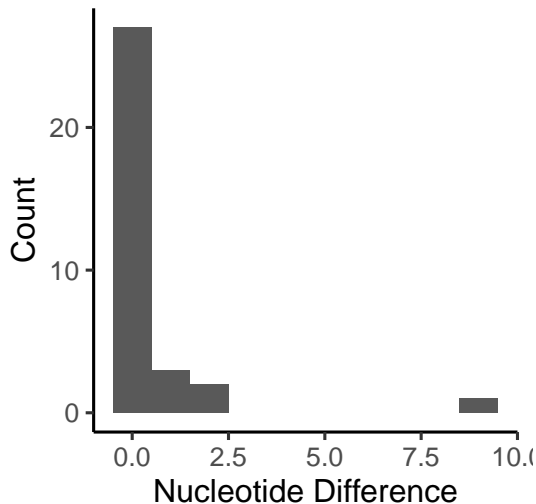
IGHV3-11*01

339 sequences assigned
263 (77.6%) exact matches, in which:
260 unique CDR3
6 unique J



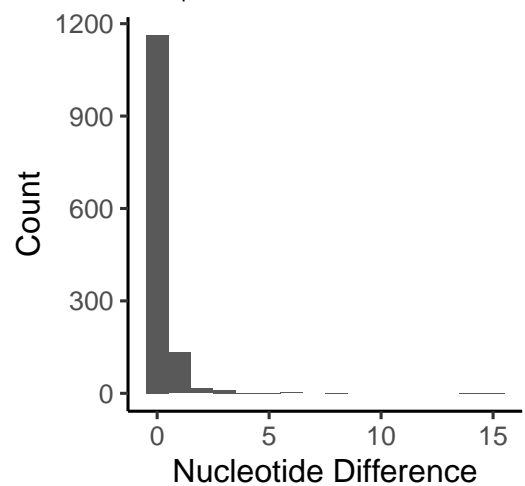
IGHV3-13*05

33 sequences assigned
27 (81.8%) exact matches, in which:
27 unique CDR3
4 unique J



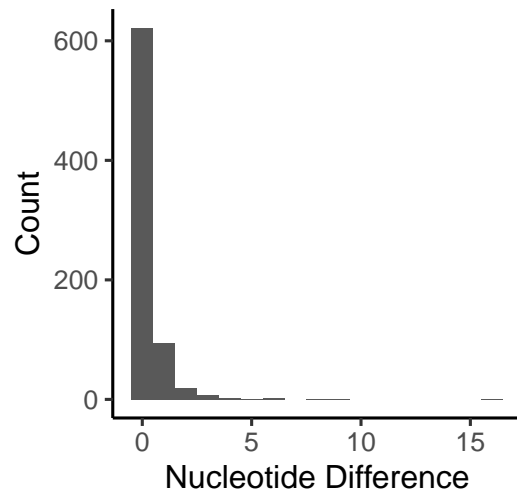
IGHV3-21*01

1333 sequences assigned
1163 (87.2%) exact matches, in which:
1150 unique CDR3
7 unique J



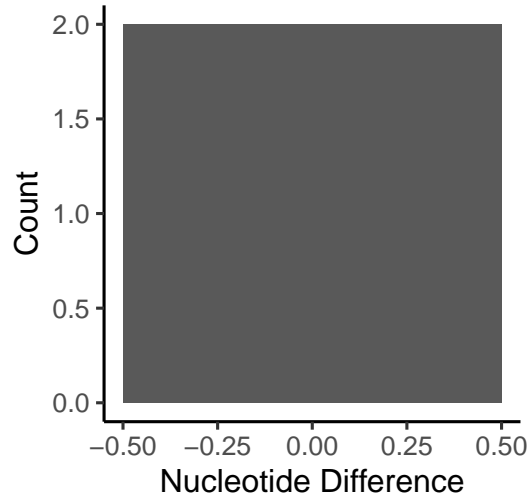
IGHV3–23*04

751 sequences assigned
622 (82.8%) exact matches, in which:
621 unique CDR3
6 unique J



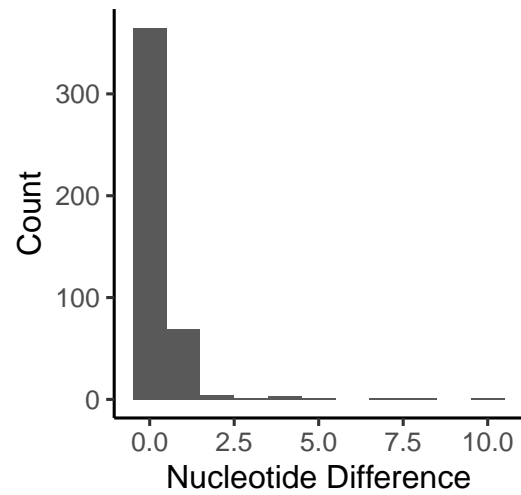
IGHV3–35*01

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



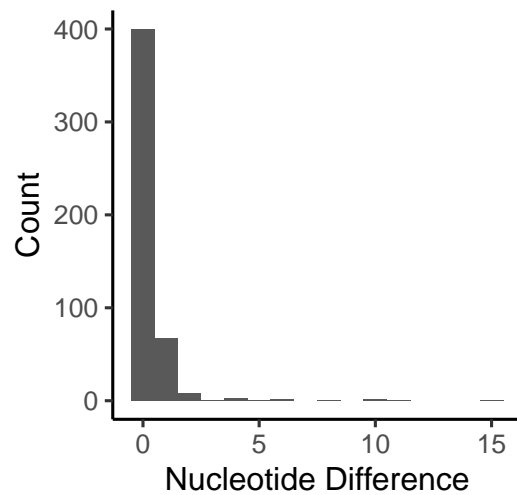
IGHV3–48*03

446 sequences assigned
365 (81.8%) exact matches, in which:
363 unique CDR3
7 unique J



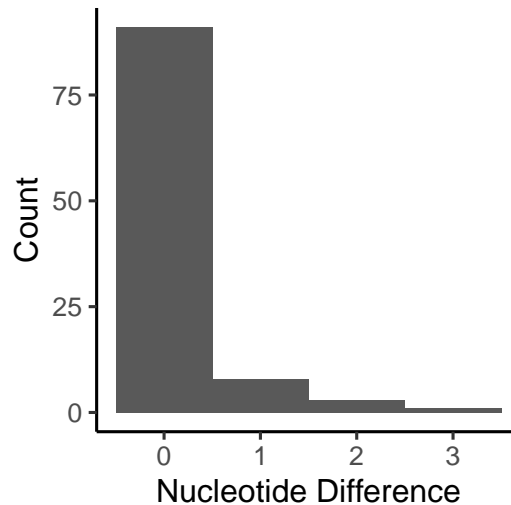
IGHV3–33*01

487 sequences assigned
400 (82.1%) exact matches, in which:
394 unique CDR3
7 unique J



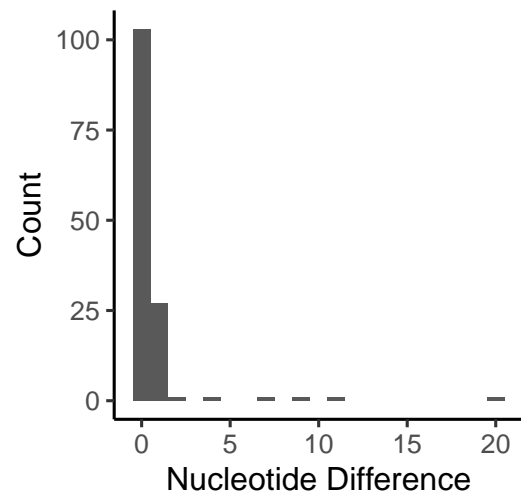
IGHV3–43*01

103 sequences assigned
91 (88.3%) exact matches, in which:
89 unique CDR3
7 unique J



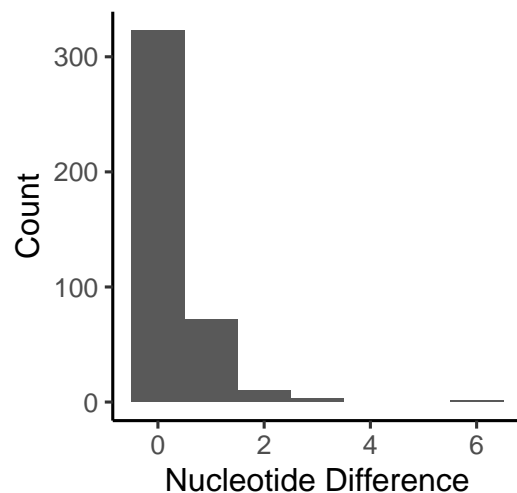
IGHV3–49*03

136 sequences assigned
103 (75.7%) exact matches, in which:
103 unique CDR3
5 unique J



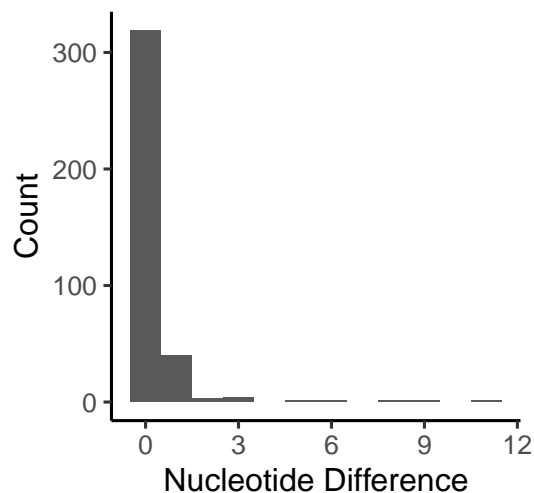
IGHV3–33*01_G75C

409 sequences assigned
323 (79%) exact matches, in which:
318 unique CDR3
7 unique J



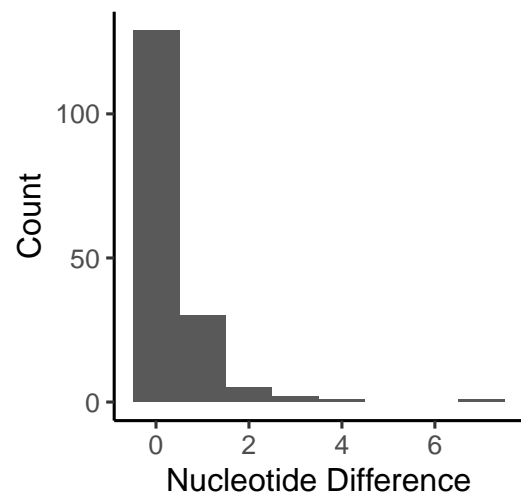
IGHV3–48*01

372 sequences assigned
319 (85.8%) exact matches, in which:
315 unique CDR3
6 unique J



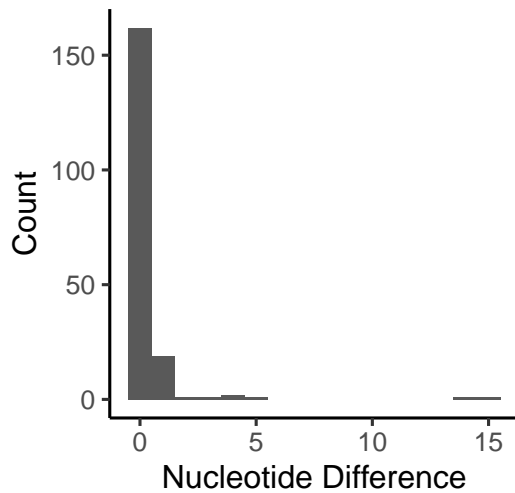
IGHV3–49*04

168 sequences assigned
129 (76.8%) exact matches, in which:
127 unique CDR3
6 unique J



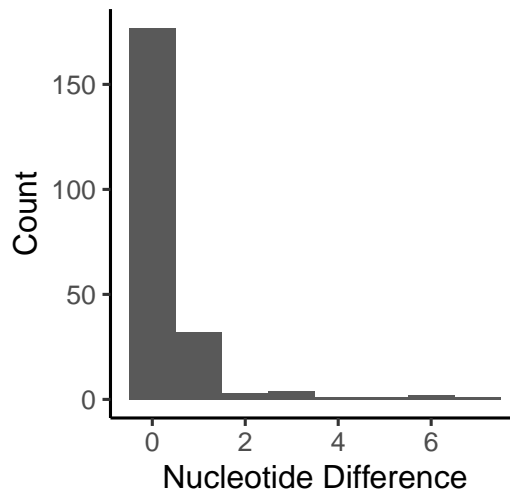
IGHV3-53*01

188 sequences assigned
162 (86.2%) exact matches, in which:
162 unique CDR3
6 unique J



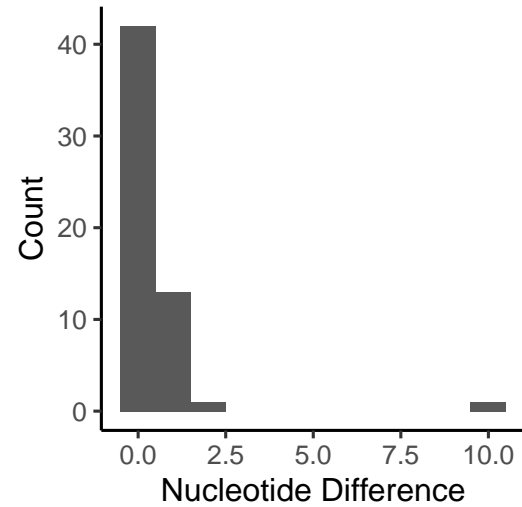
IGHV3-66*01

221 sequences assigned
177 (80.1%) exact matches, in which:
177 unique CDR3
6 unique J



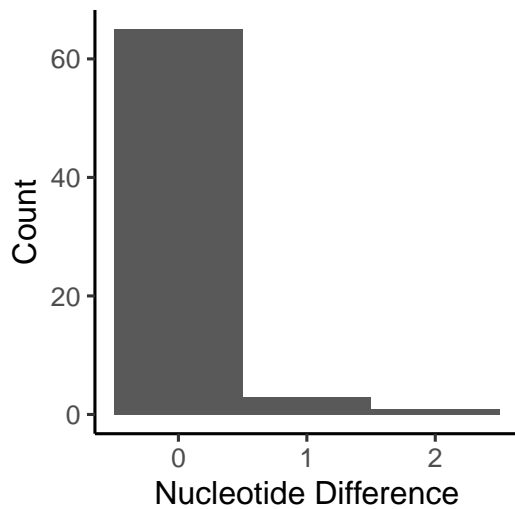
IGHV3-73*01

57 sequences assigned
42 (73.7%) exact matches, in which:
42 unique CDR3
5 unique J



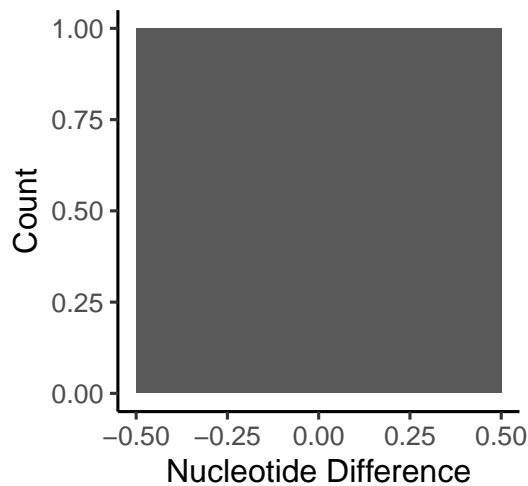
IGHV3-53*02

70 sequences assigned
65 (92.9%) exact matches, in which:
65 unique CDR3
6 unique J



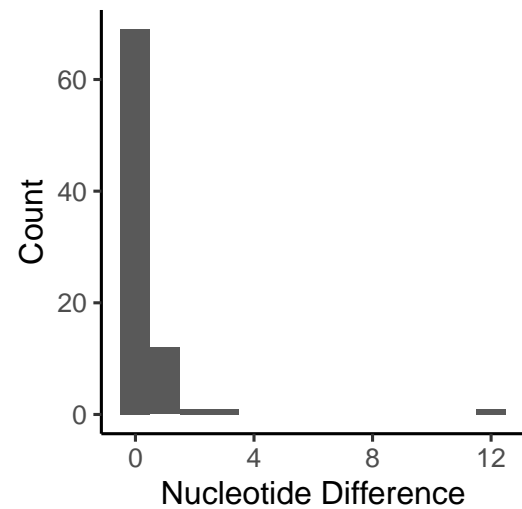
IGHV3-69-1*01

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



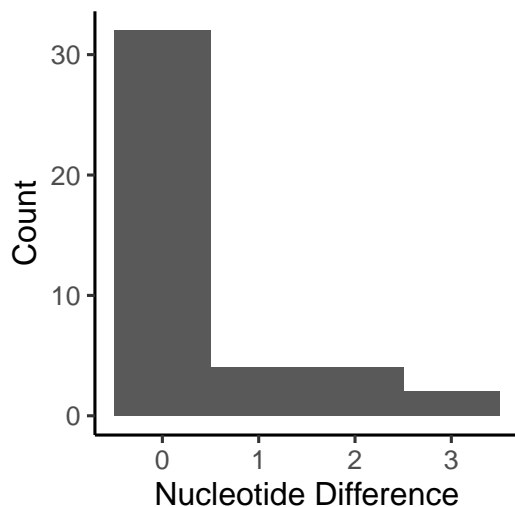
IGHV3-73*02

84 sequences assigned
69 (82.1%) exact matches, in which:
69 unique CDR3
5 unique J



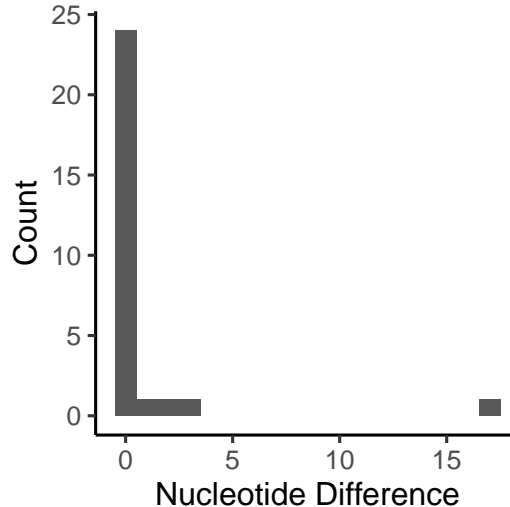
IGHV3-64*01

42 sequences assigned
32 (76.2%) exact matches, in which:
32 unique CDR3
3 unique J



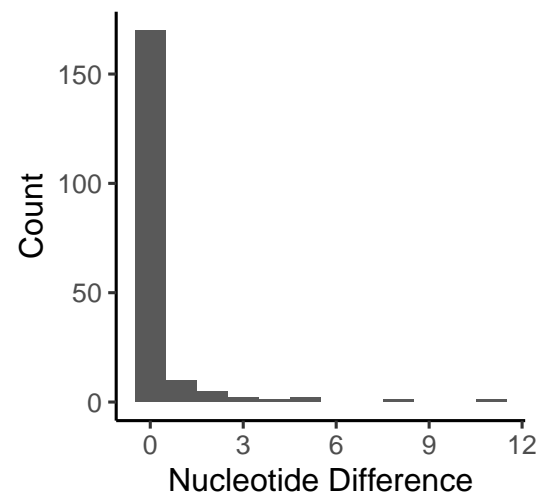
IGHV3-72*01

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



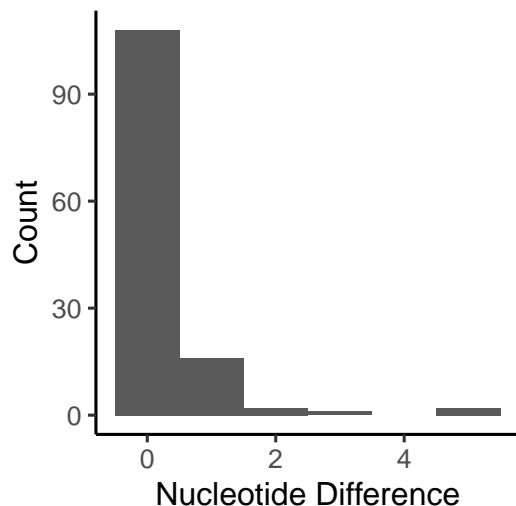
IGHV3-74*01

192 sequences assigned
170 (88.5%) exact matches, in which:
166 unique CDR3
7 unique J



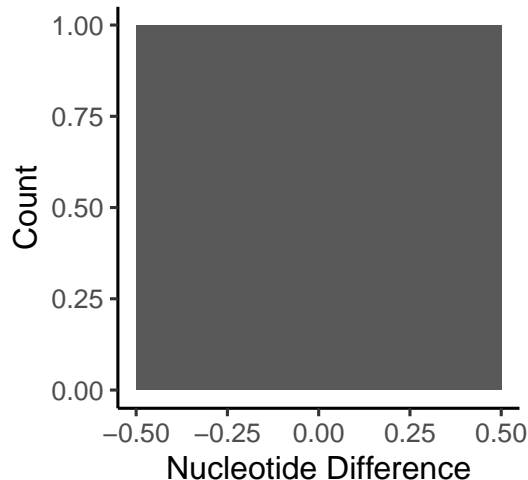
IGHV3-64D*06

129 sequences assigned
108 (83.7%) exact matches, in which:
106 unique CDR3
6 unique J



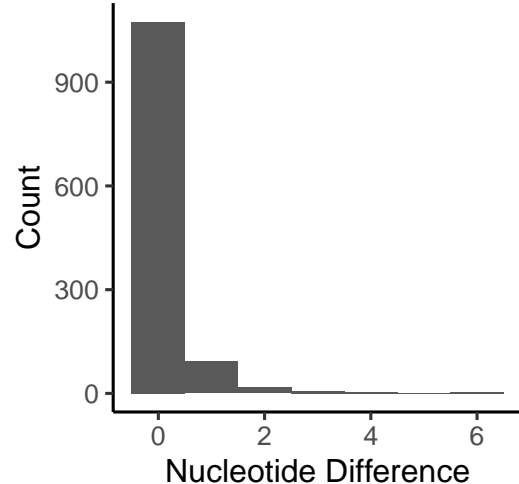
IGHV4-28*03

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



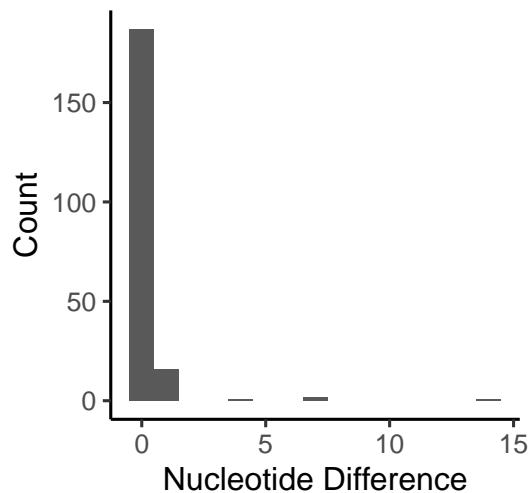
IGHV4-34*01

1203 sequences assigned
1075 (89.4%) exact matches, in which:
1060 unique CDR3
7 unique J



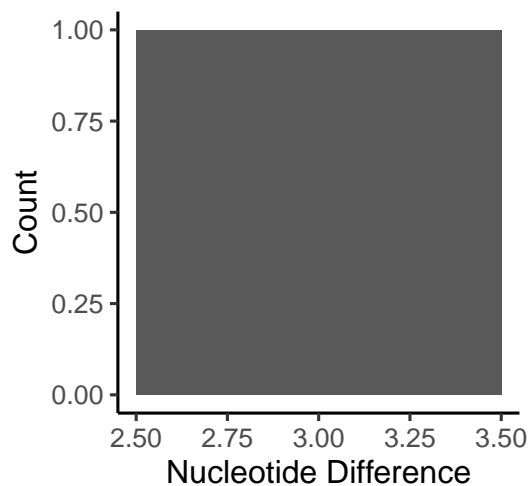
IGHV4-4*02

207 sequences assigned
187 (90.3%) exact matches, in which:
187 unique CDR3
6 unique J



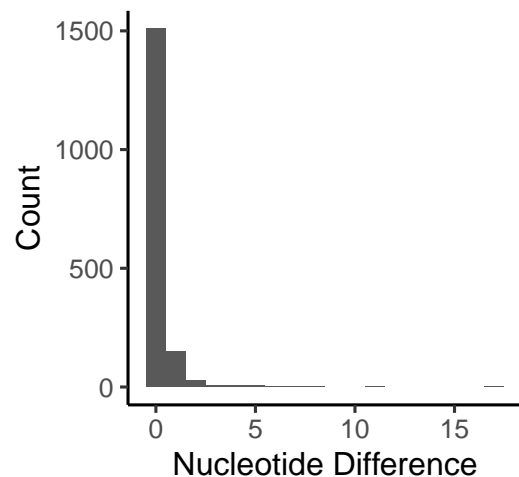
IGHV4-30-4*07

1 sequences assigned
No exact matches.



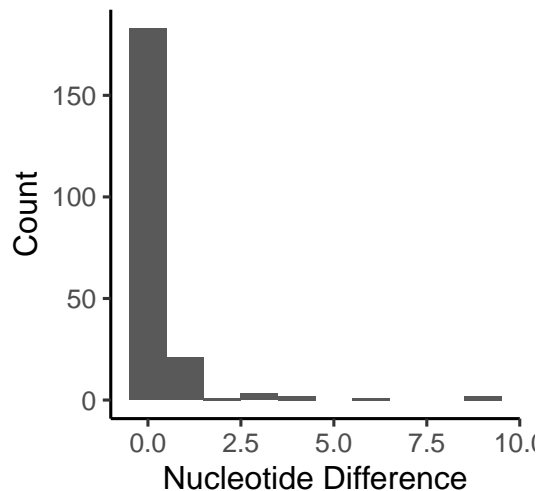
IGHV4-39*01

1718 sequences assigned
1509 (87.8%) exact matches, in which:
1485 unique CDR3
7 unique J



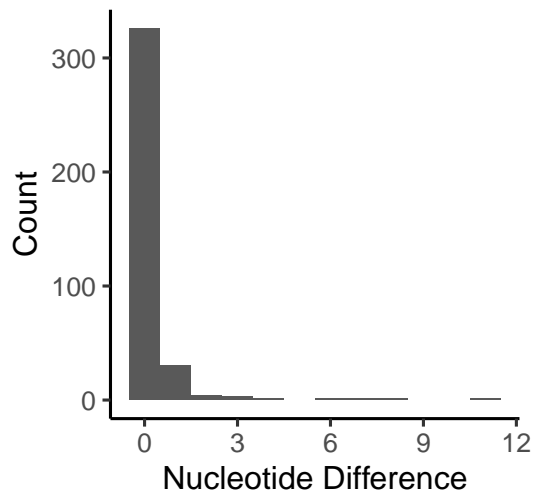
IGHV4-4*07

213 sequences assigned
183 (85.9%) exact matches, in which:
183 unique CDR3
6 unique J



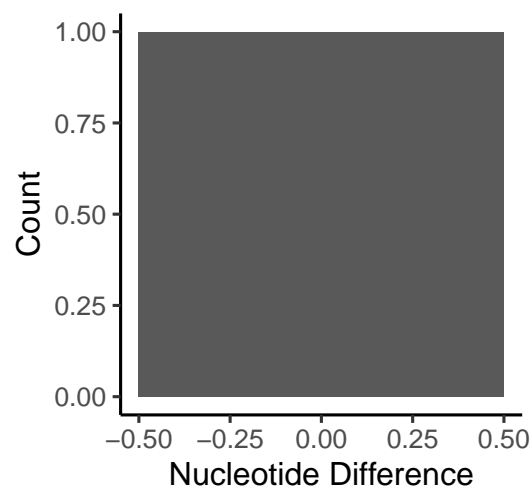
IGHV4-31*03

370 sequences assigned
326 (88.1%) exact matches, in which:
322 unique CDR3
6 unique J



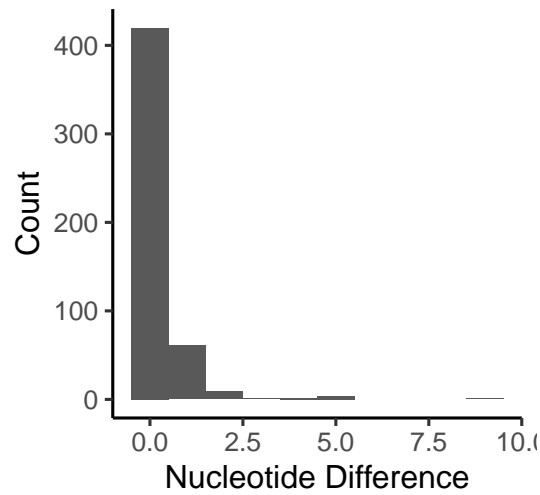
IGHV4-55*09

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



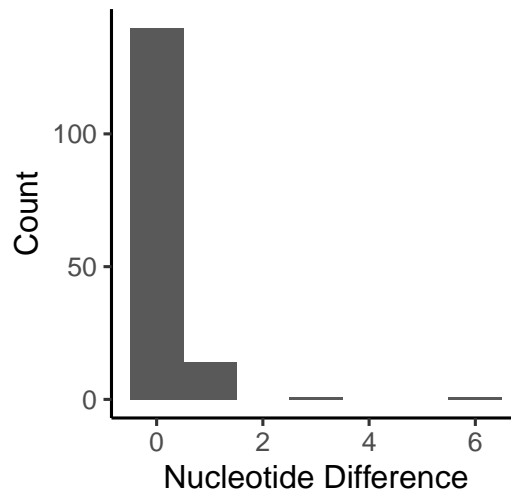
IGHV4–59*01

500 sequences assigned
420 (84%) exact matches, in which:
418 unique CDR3
7 unique J



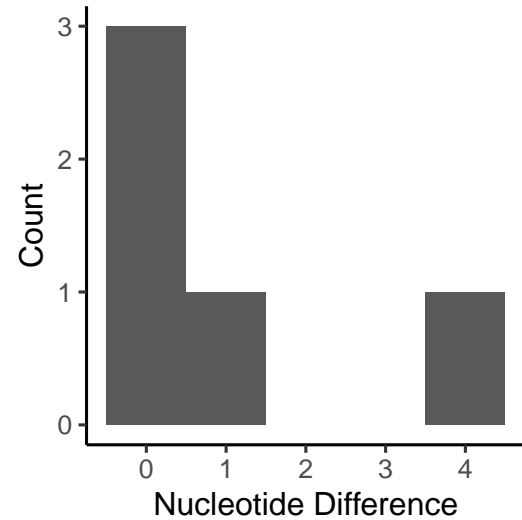
IGHV5–10–1*03

156 sequences assigned
140 (89.7%) exact matches, in which:
138 unique CDR3
7 unique J



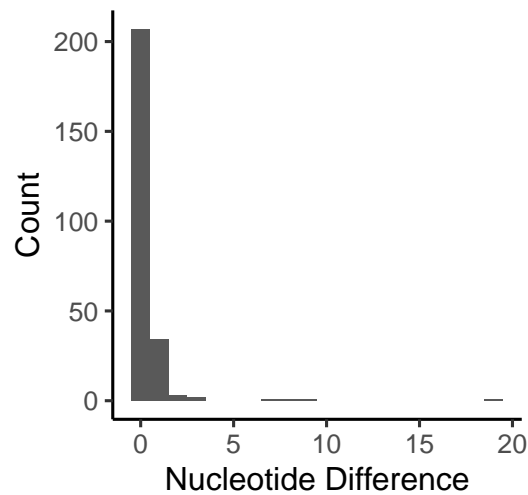
IGHV7–4–1*01

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



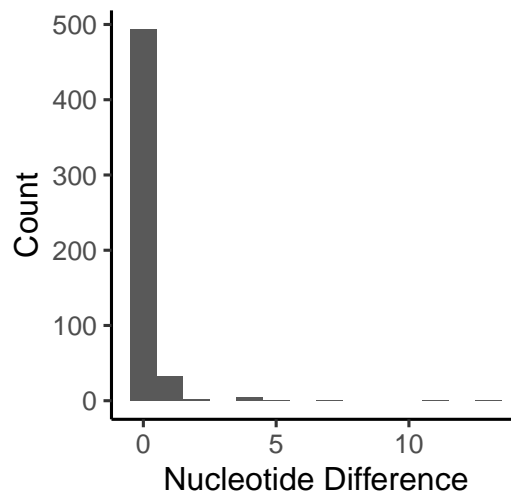
IGHV4–59*08

250 sequences assigned
207 (82.8%) exact matches, in which:
205 unique CDR3
7 unique J



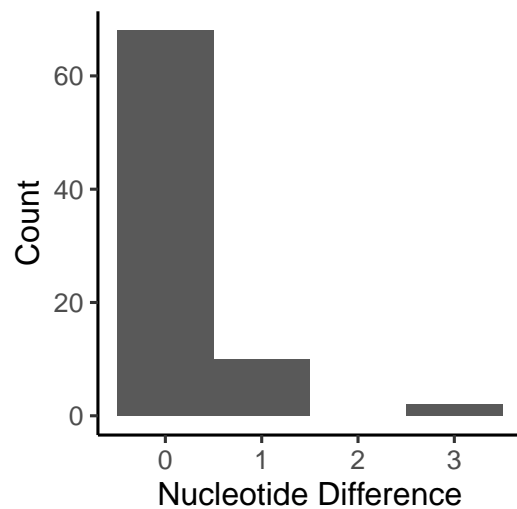
IGHV5–51*01

537 sequences assigned
494 (92%) exact matches, in which:
489 unique CDR3
7 unique J



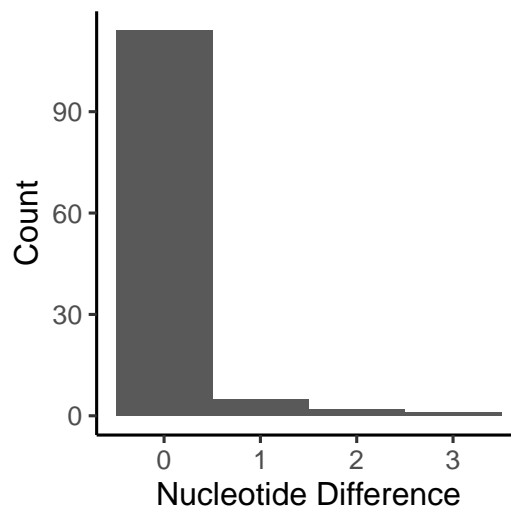
IGHV4–61*01

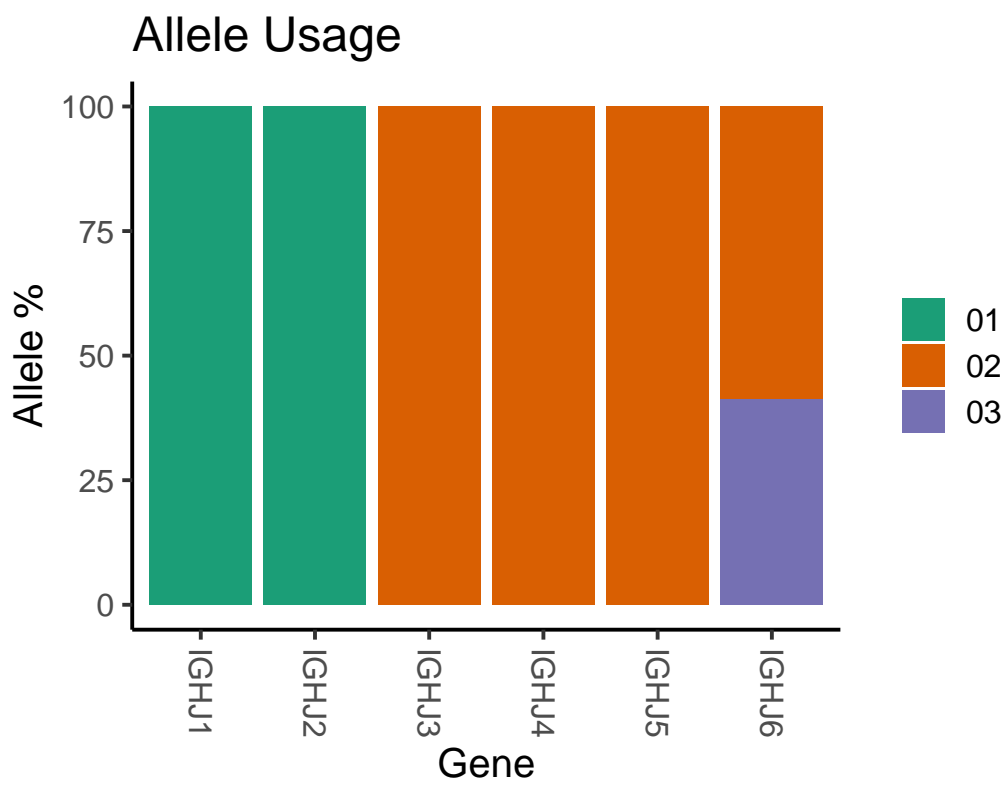
80 sequences assigned
68 (85%) exact matches, in which:
68 unique CDR3
5 unique J



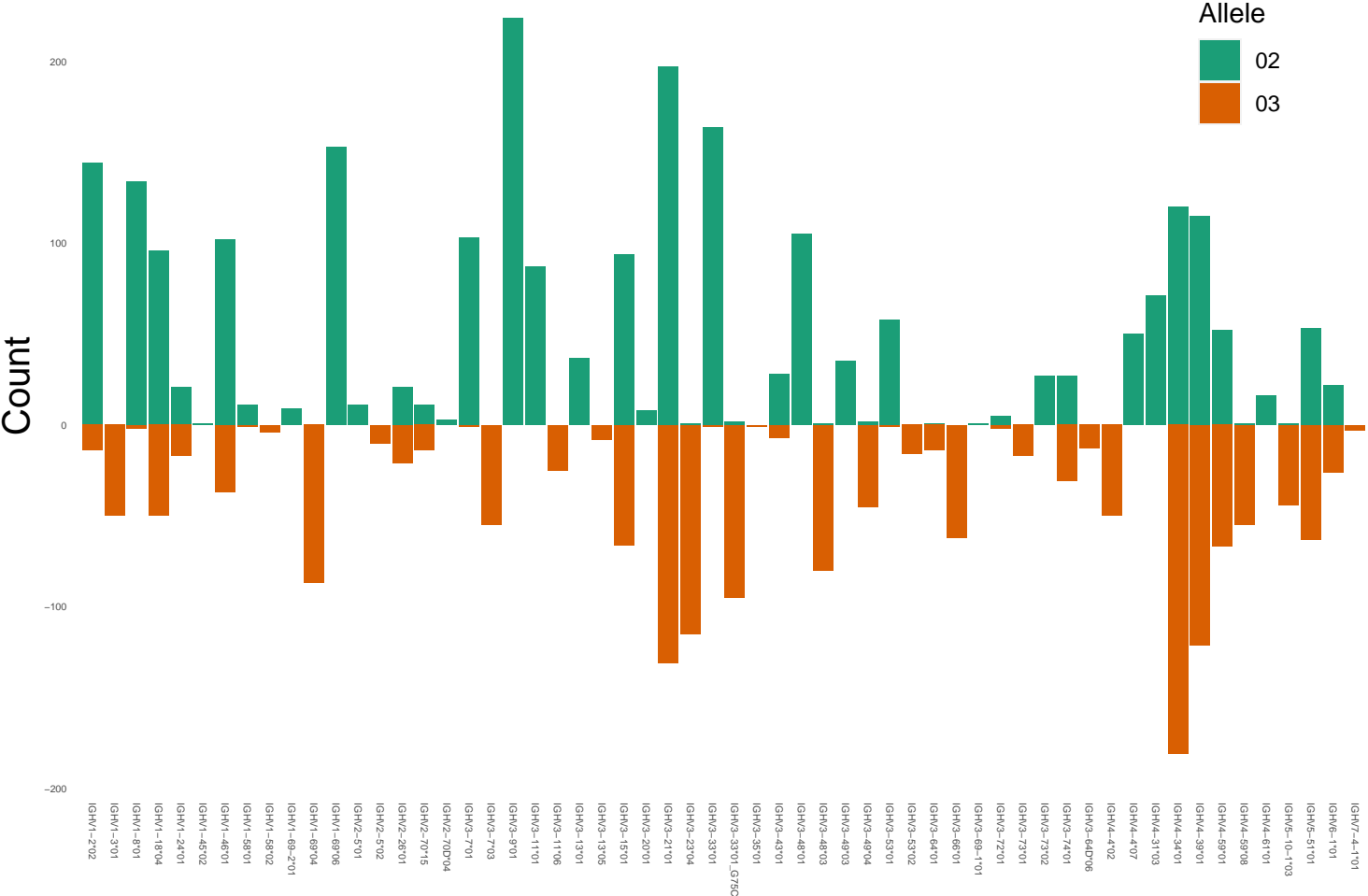
IGHV6–1*01

122 sequences assigned
114 (93.4%) exact matches, in which:
113 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage



[illegible]