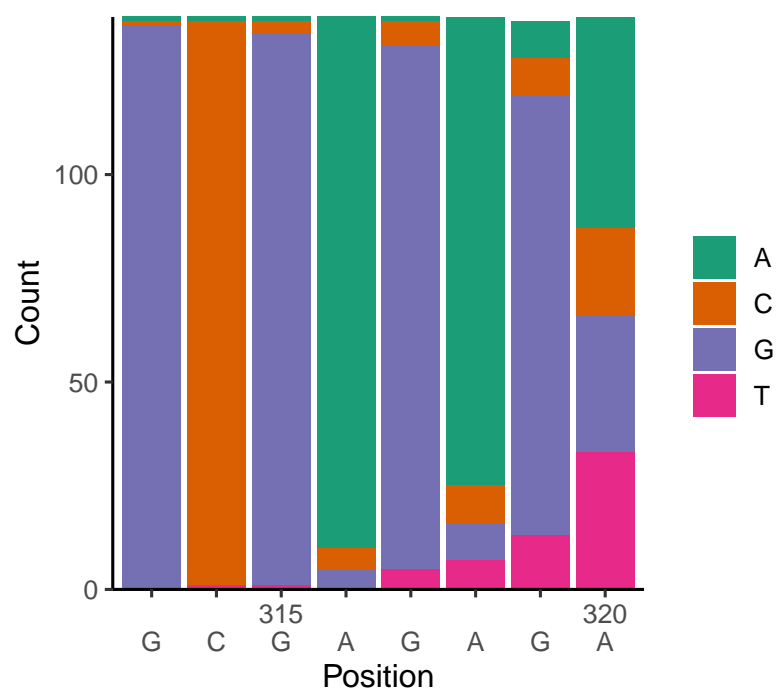
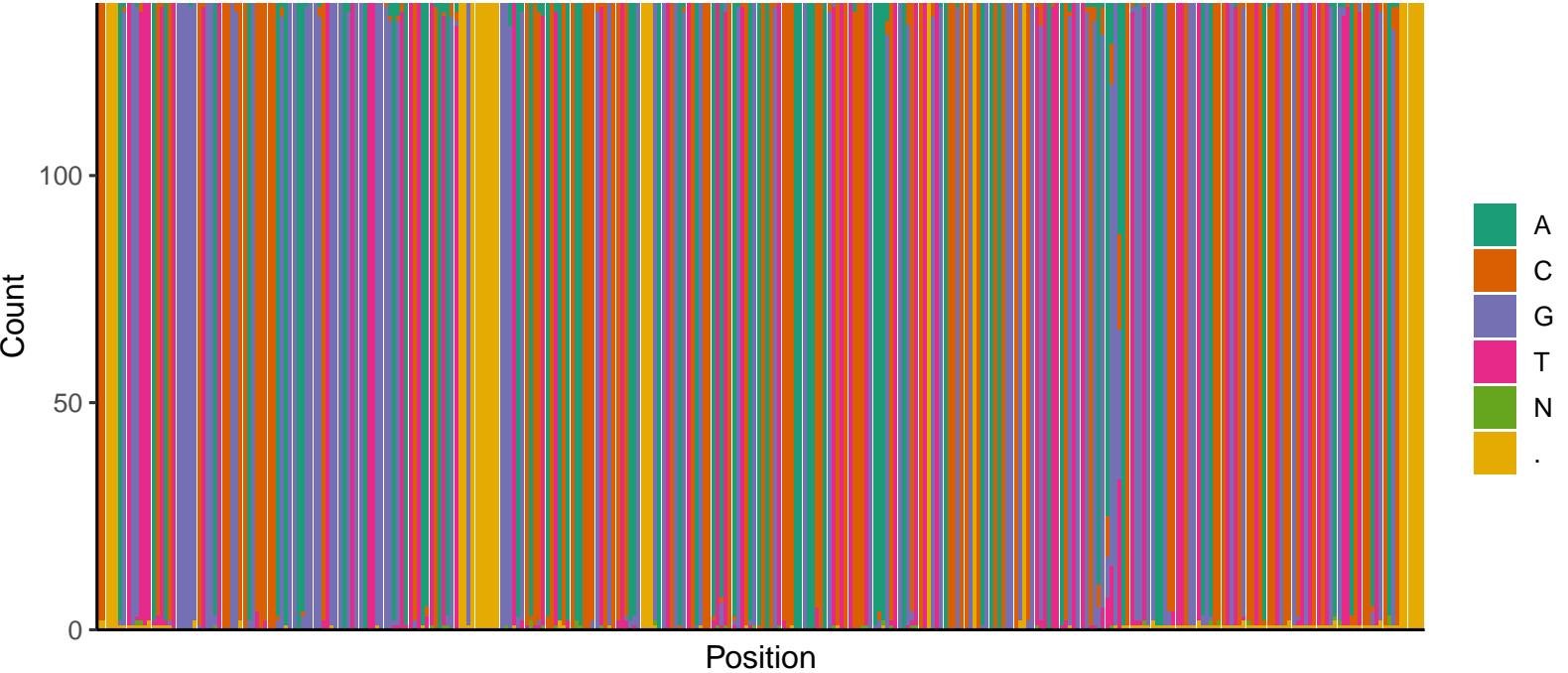


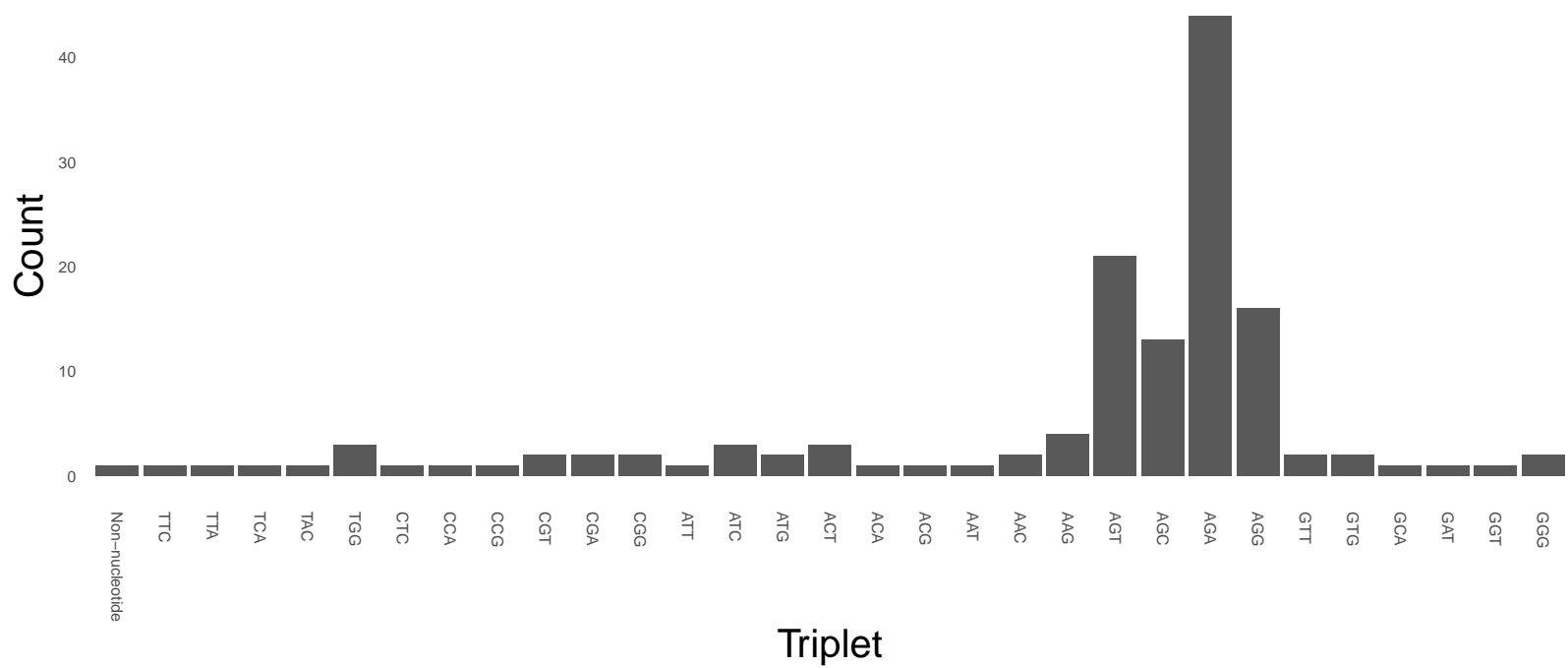
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

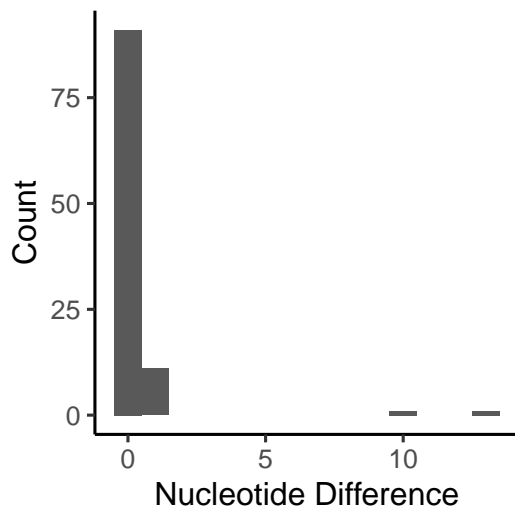


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



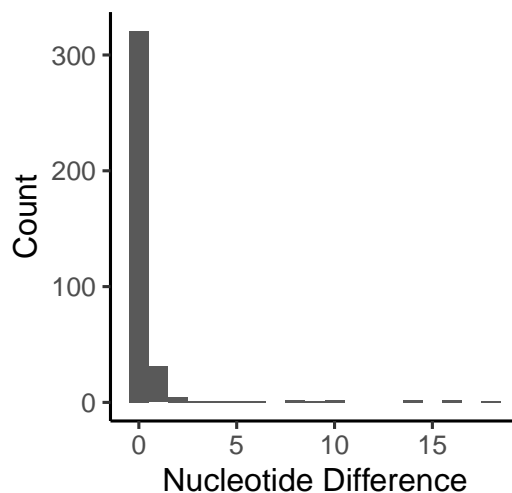
IGHV1-2*04

106 sequences assigned
91 (85.8%) exact matches, in which:
89 unique CDR3
6 unique J



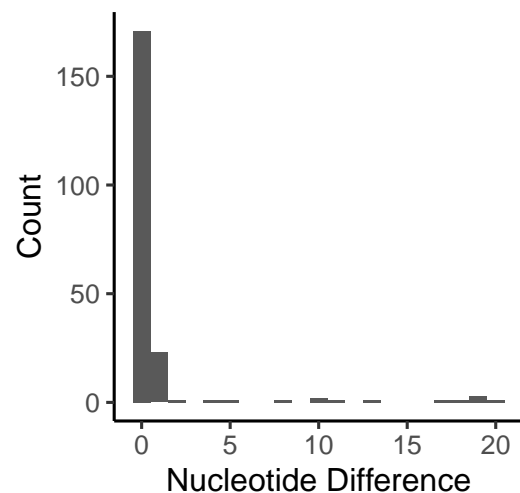
IGHV1-8*01

372 sequences assigned
321 (86.3%) exact matches, in which:
315 unique CDR3
7 unique J



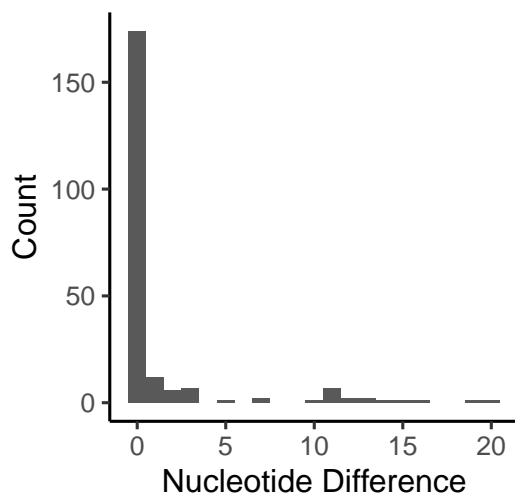
IGHV1-46*01

211 sequences assigned
171 (81%) exact matches, in which:
168 unique CDR3
7 unique J



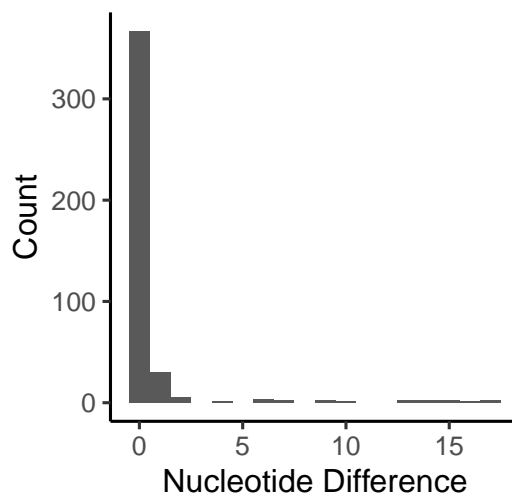
IGHV1-2*06

225 sequences assigned
174 (77.3%) exact matches, in which:
167 unique CDR3
7 unique J



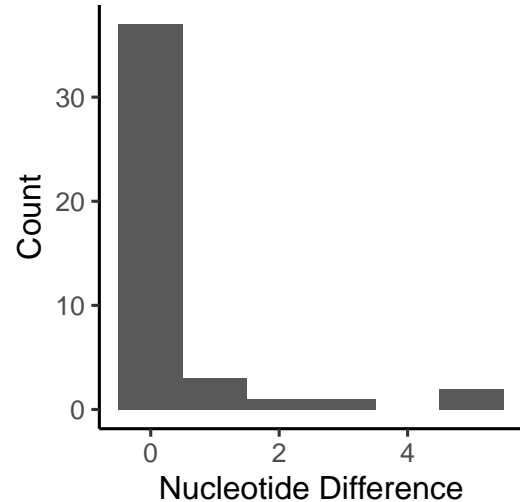
IGHV1-18*01

430 sequences assigned
367 (85.3%) exact matches, in which:
362 unique CDR3
7 unique J



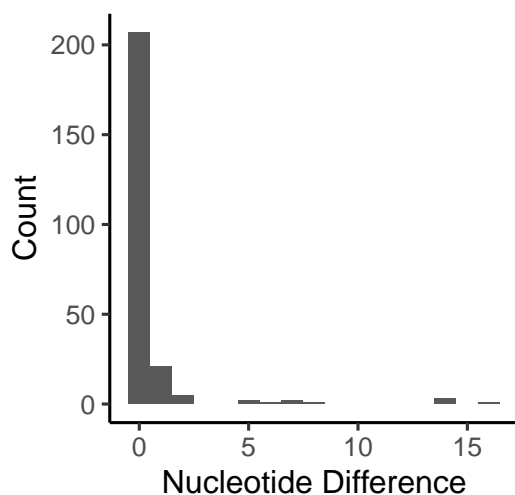
IGHV1-58*01

44 sequences assigned
37 (84.1%) exact matches, in which:
36 unique CDR3
7 unique J



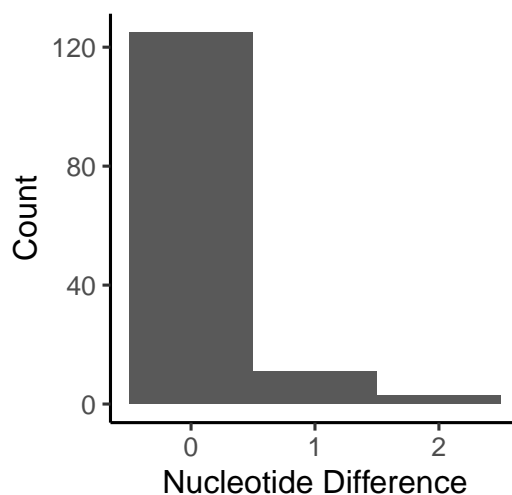
IGHV1-3*01

248 sequences assigned
207 (83.5%) exact matches, in which:
205 unique CDR3
7 unique J



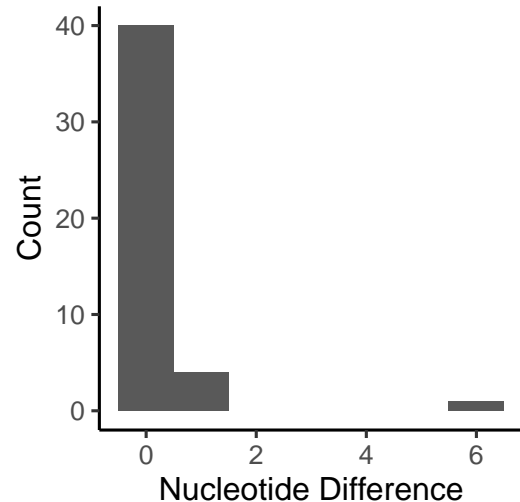
IGHV1-24*01

140 sequences assigned
125 (89.3%) exact matches, in which:
124 unique CDR3
7 unique J



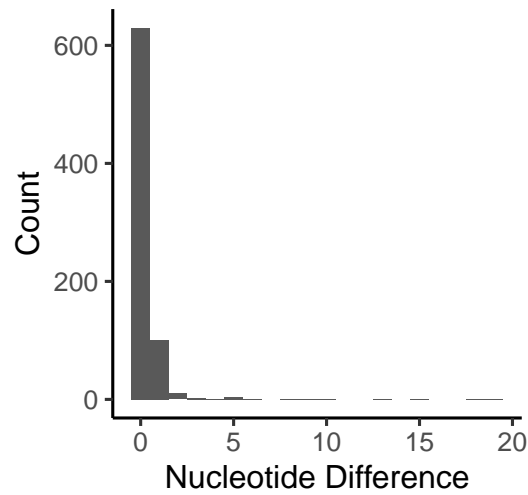
IGHV1-69-2*01

49 sequences assigned
40 (81.6%) exact matches, in which:
40 unique CDR3
5 unique J



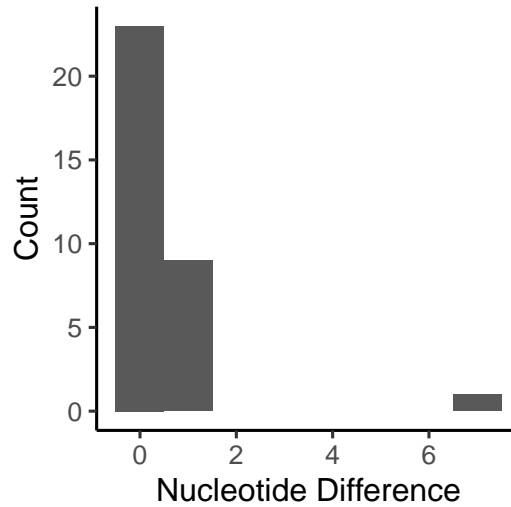
IGHV1–69*06

765 sequences assigned
630 (82.4%) exact matches, in which:
619 unique CDR3
7 unique J



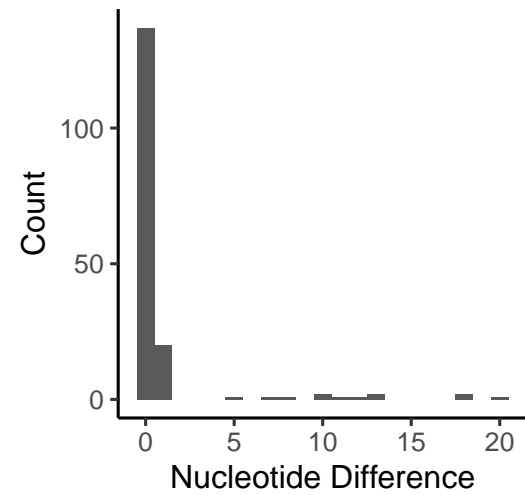
IGHV2–70*01

33 sequences assigned
23 (69.7%) exact matches, in which:
23 unique CDR3
6 unique J



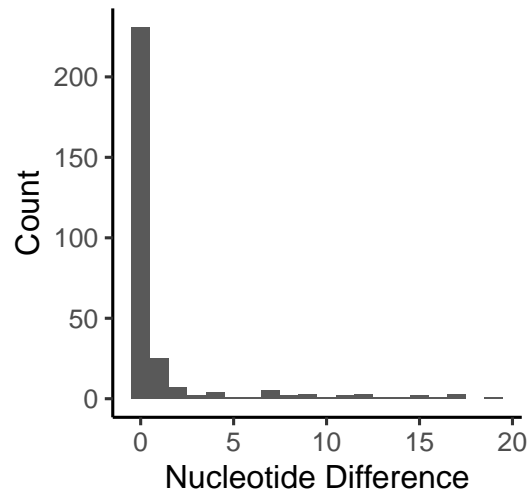
IGHV3–11*01

178 sequences assigned
137 (77%) exact matches, in which:
135 unique CDR3
6 unique J



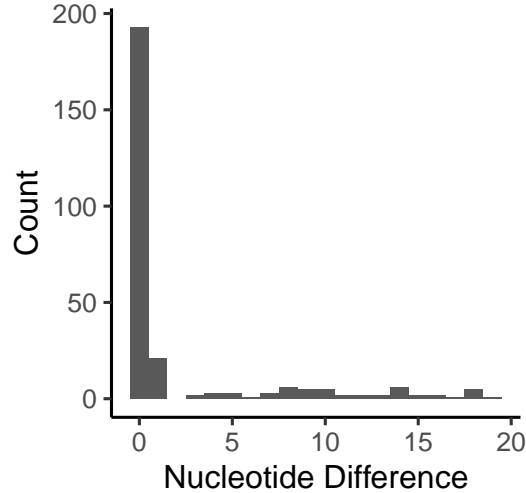
IGHV2–5*02

305 sequences assigned
231 (75.7%) exact matches, in which:
230 unique CDR3
7 unique J



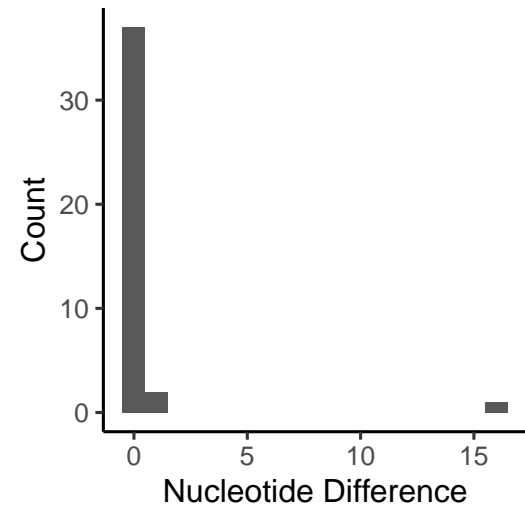
IGHV3–7*01

279 sequences assigned
193 (69.2%) exact matches, in which:
190 unique CDR3
7 unique J



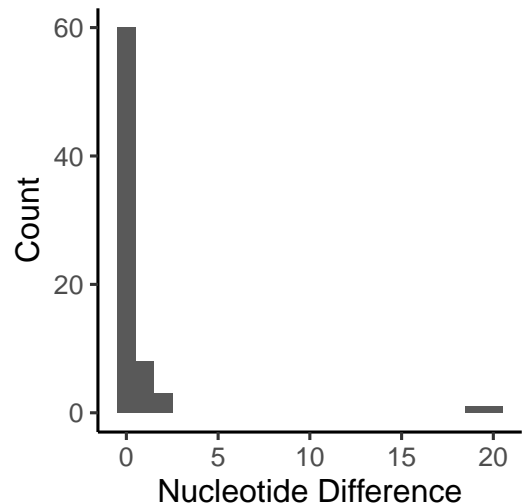
IGHV3–13*01

41 sequences assigned
37 (90.2%) exact matches, in which:
36 unique CDR3
6 unique J



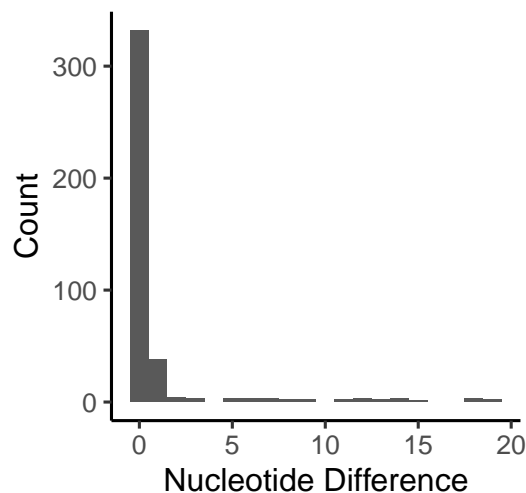
IGHV2–26*01

74 sequences assigned
60 (81.1%) exact matches, in which:
59 unique CDR3
6 unique J



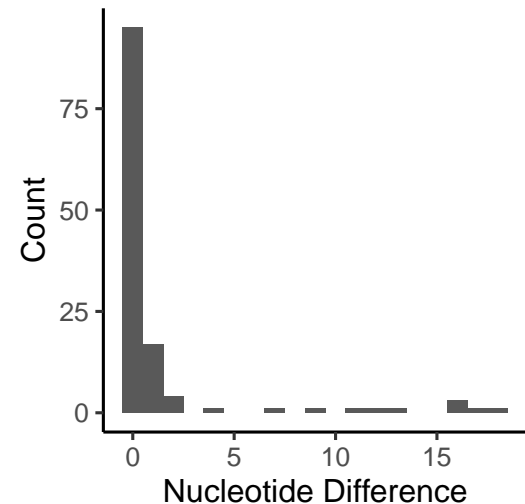
IGHV3–9*01

415 sequences assigned
332 (80%) exact matches, in which:
316 unique CDR3
7 unique J



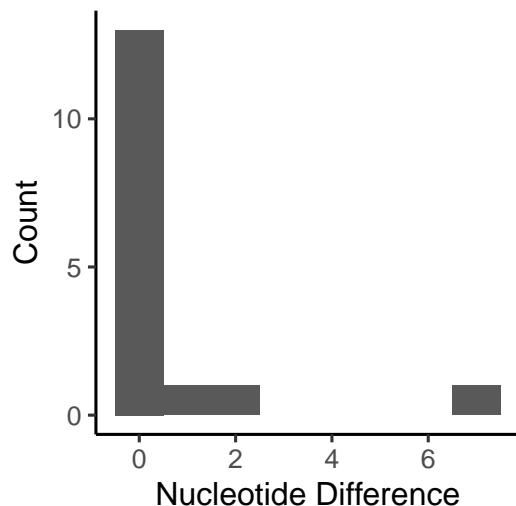
IGHV3–15*01

131 sequences assigned
95 (72.5%) exact matches, in which:
95 unique CDR3
6 unique J



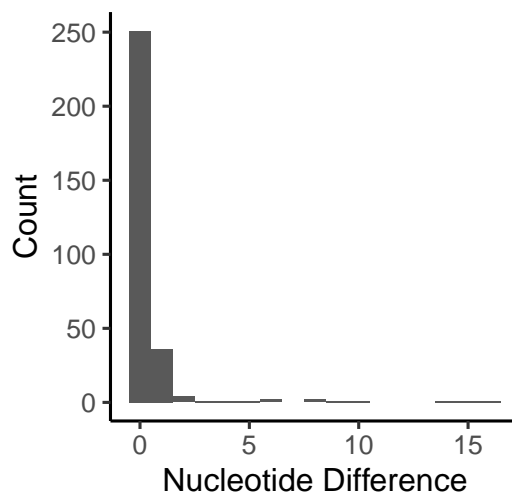
IGHV3-20*01

17 sequences assigned
13 (76.5%) exact matches, in which:
13 unique CDR3
6 unique J



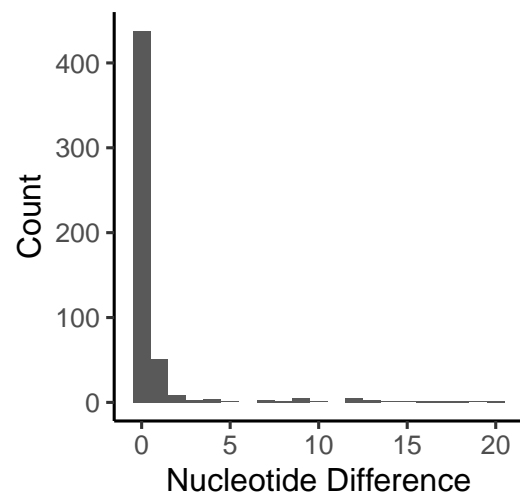
IGHV3-30-3*01

307 sequences assigned
251 (81.8%) exact matches, in which:
244 unique CDR3
6 unique J



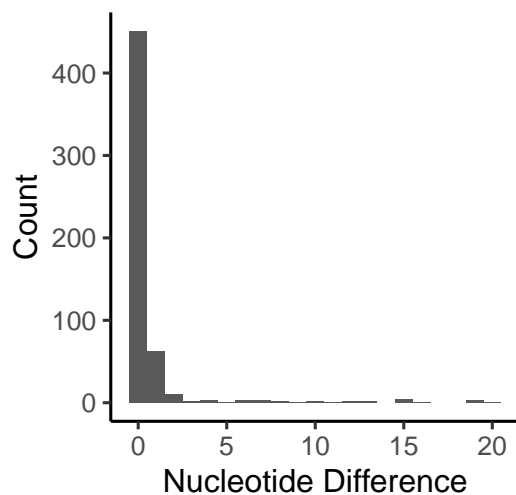
IGHV3-48*03

548 sequences assigned
438 (79.9%) exact matches, in which:
431 unique CDR3
7 unique J



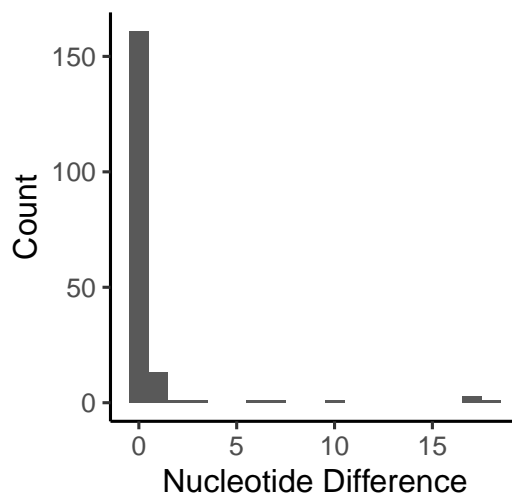
IGHV3-21*01

568 sequences assigned
451 (79.4%) exact matches, in which:
440 unique CDR3
7 unique J



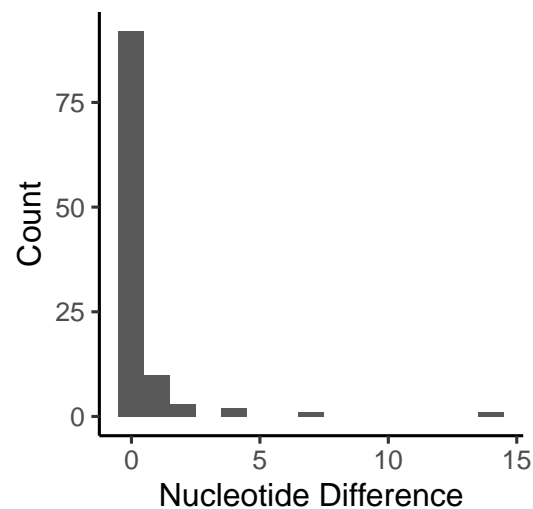
IGHV3-33*01

193 sequences assigned
161 (83.4%) exact matches, in which:
155 unique CDR3
7 unique J



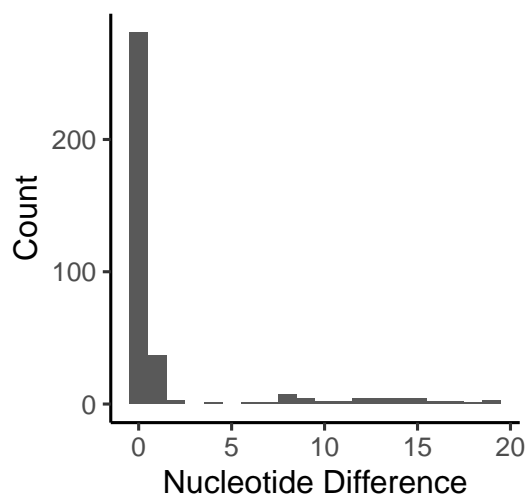
IGHV3-49*04

119 sequences assigned
92 (77.3%) exact matches, in which:
90 unique CDR3
7 unique J



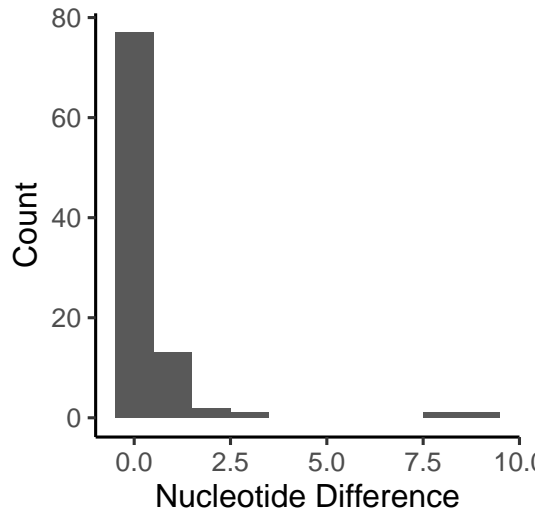
IGHV3-23*04

385 sequences assigned
281 (73%) exact matches, in which:
269 unique CDR3
6 unique J



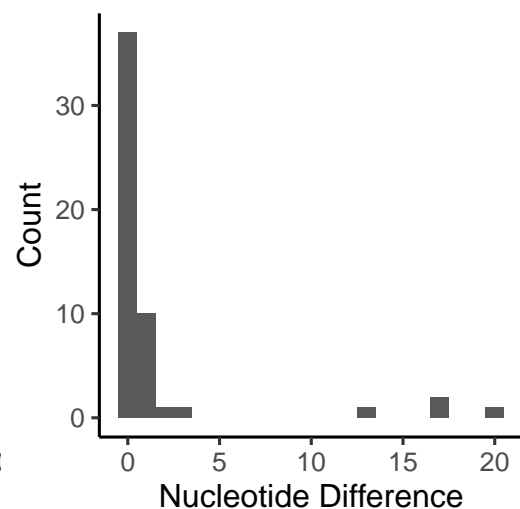
IGHV3-43*02

101 sequences assigned
77 (76.2%) exact matches, in which:
76 unique CDR3
6 unique J



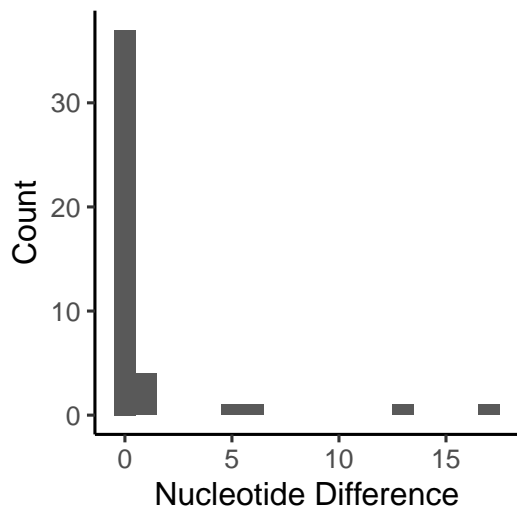
IGHV3-53*02

55 sequences assigned
37 (67.3%) exact matches, in which:
35 unique CDR3
5 unique J



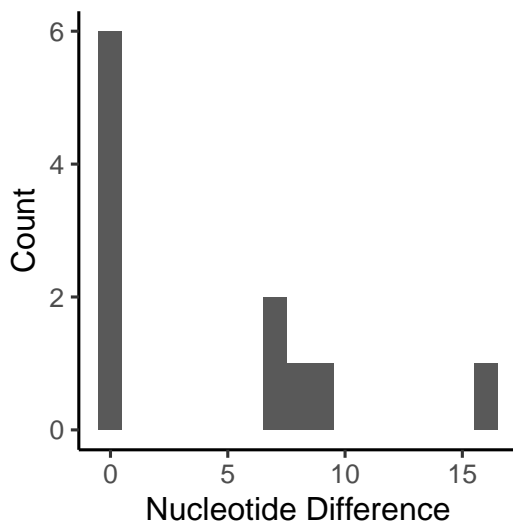
IGHV3-53*04

46 sequences assigned
37 (80.4%) exact matches, in which:
37 unique CDR3
4 unique J



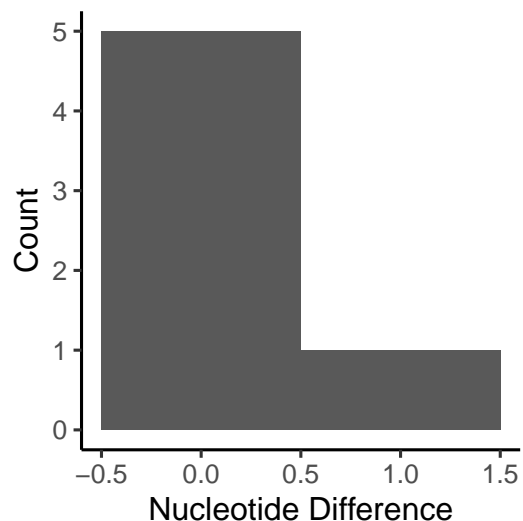
IGHV3-72*01

14 sequences assigned
6 (42.9%) exact matches, in which:
6 unique CDR3
3 unique J



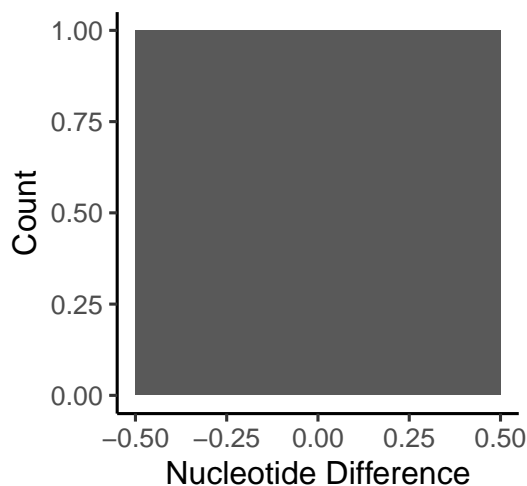
IGHV3-43D*04

7 sequences assigned
5 (71.4%) exact matches, in which:
5 unique CDR3
3 unique J



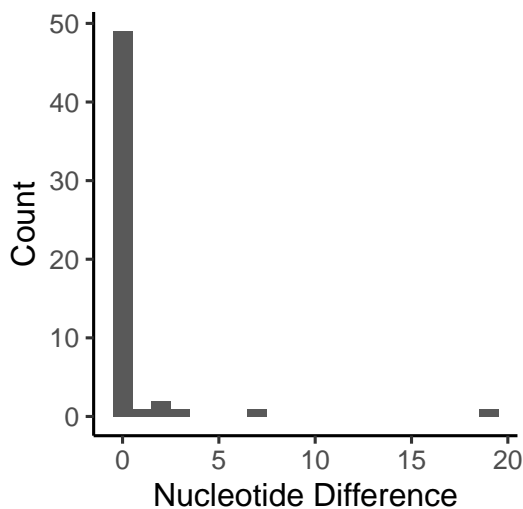
IGHV3-64*02

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



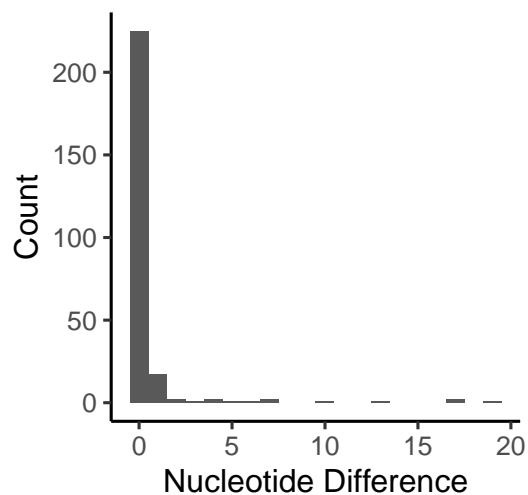
IGHV3-73*02

60 sequences assigned
49 (81.7%) exact matches, in which:
47 unique CDR3
7 unique J



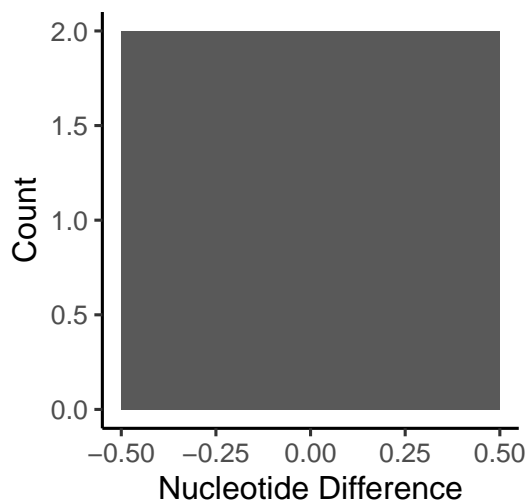
IGHV4-4*02

262 sequences assigned
225 (85.9%) exact matches, in which:
225 unique CDR3
7 unique J



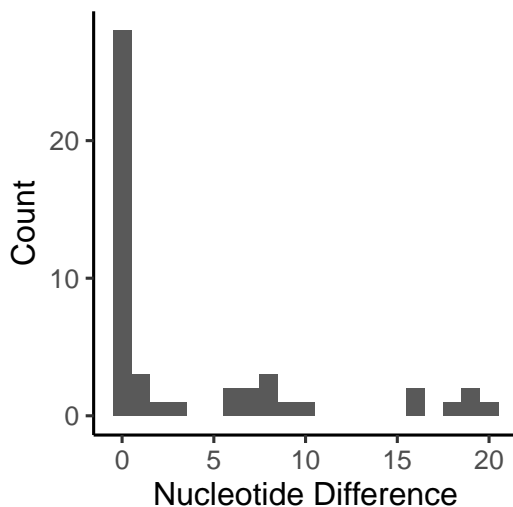
IGHV3-66*03

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



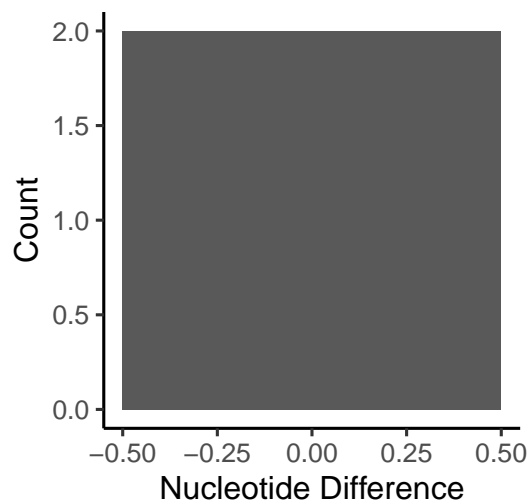
IGHV3-74*01

53 sequences assigned
28 (52.8%) exact matches, in which:
28 unique CDR3
5 unique J



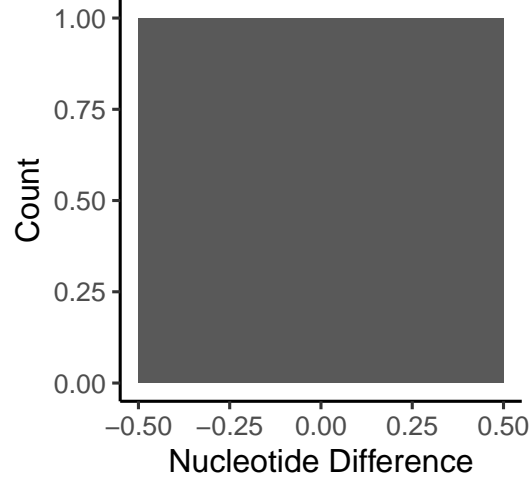
IGHV4-28*01

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



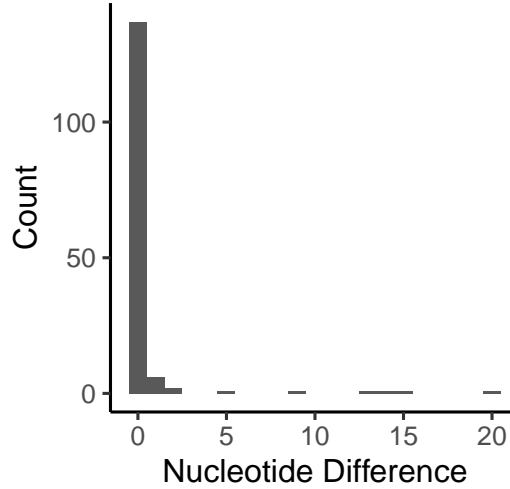
IGHV4-28*02

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



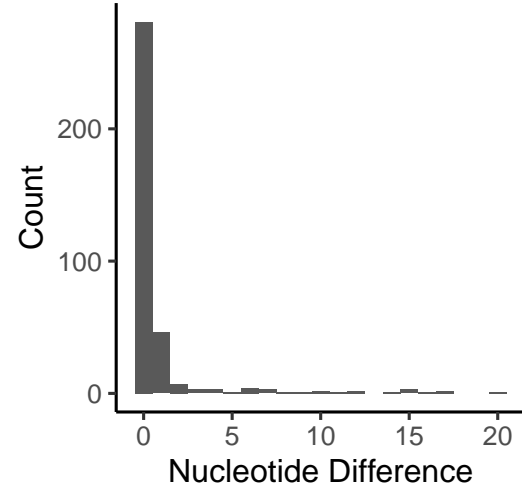
IGHV4-31*03

153 sequences assigned
137 (89.5%) exact matches, in which:
134 unique CDR3
6 unique J



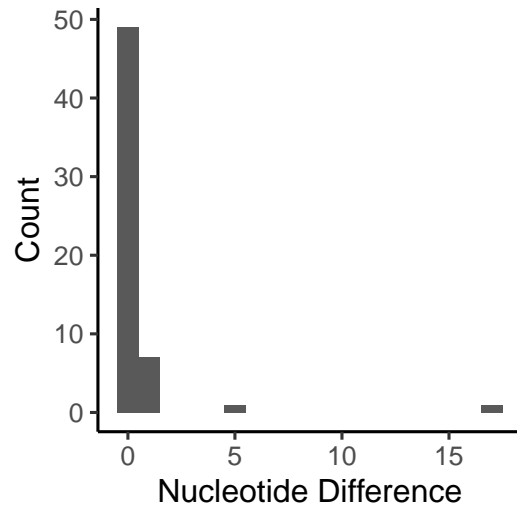
IGHV4-39*01

374 sequences assigned
281 (75.1%) exact matches, in which:
276 unique CDR3
6 unique J



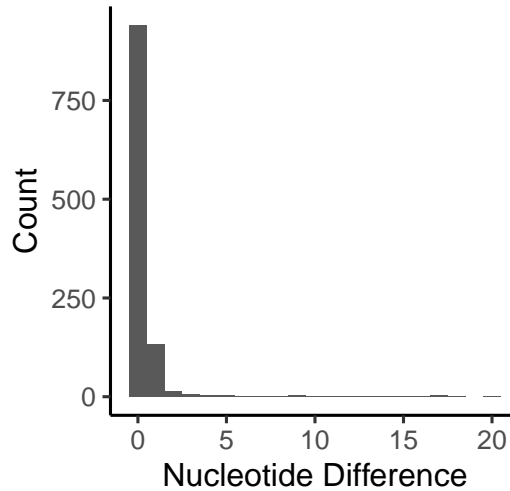
IGHV4-30-2*01

58 sequences assigned
49 (84.5%) exact matches, in which:
48 unique CDR3
5 unique J



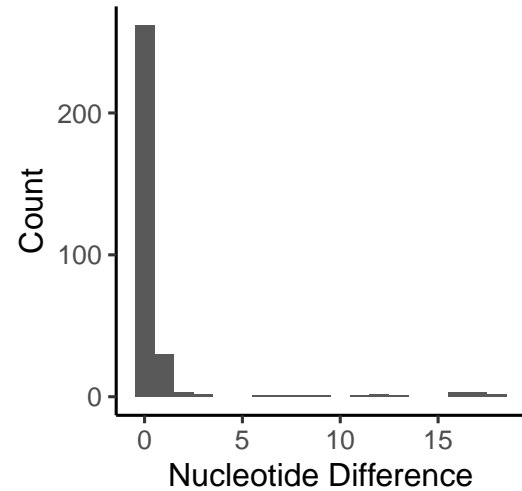
IGHV4-34*01

1148 sequences assigned
941 (82%) exact matches, in which:
906 unique CDR3
7 unique J



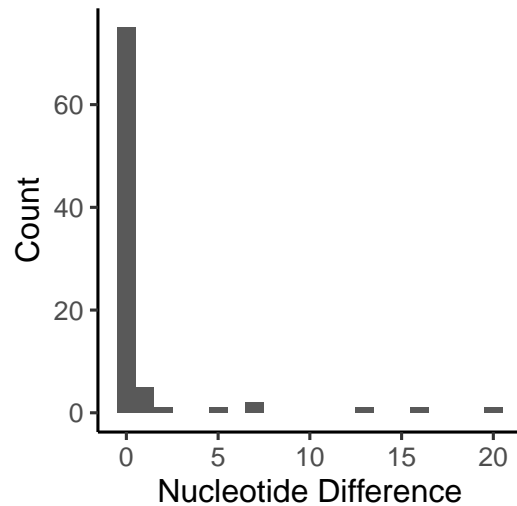
IGHV4-59*01

319 sequences assigned
262 (82.1%) exact matches, in which:
261 unique CDR3
7 unique J



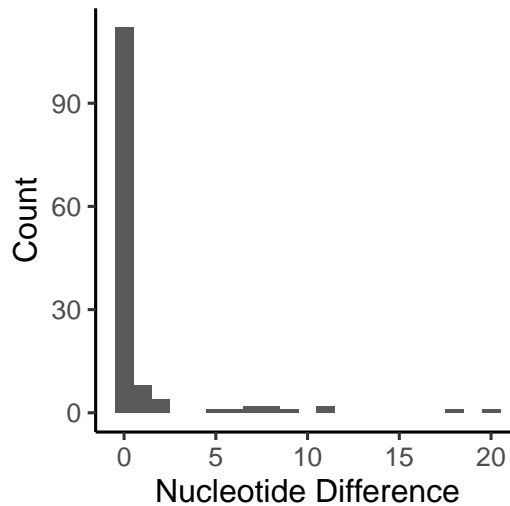
IGHV4-30-4*01

92 sequences assigned
75 (81.5%) exact matches, in which:
74 unique CDR3
5 unique J



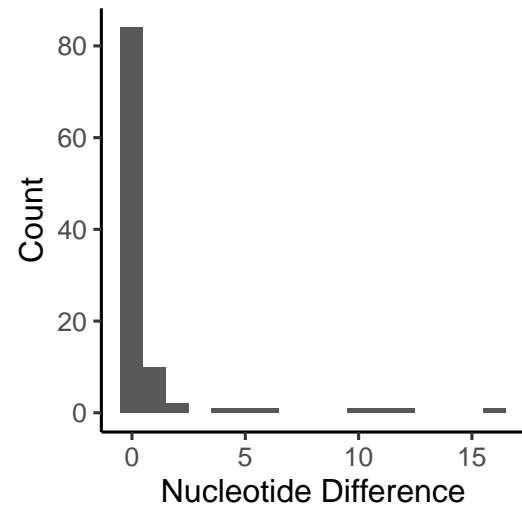
IGHV4-38-2*02_A70G

138 sequences assigned
112 (81.2%) exact matches, in which:
107 unique CDR3
6 unique J



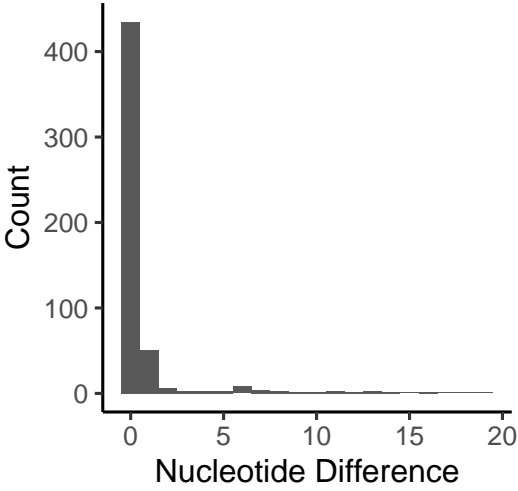
IGHV4-61*01

110 sequences assigned
84 (76.4%) exact matches, in which:
83 unique CDR3
6 unique J



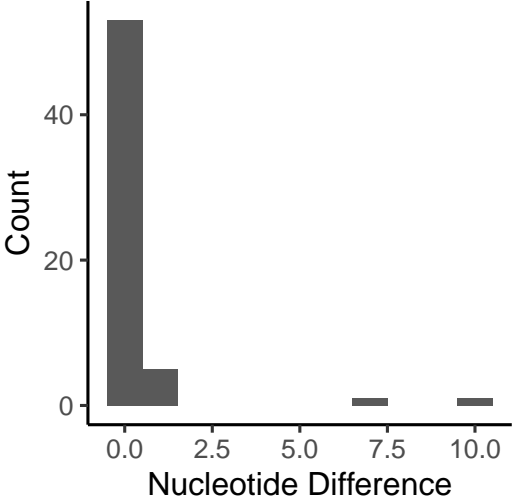
IGHV5–51*01

549 sequences assigned
435 (79.2%) exact matches, in which:
426 unique CDR3
7 unique J



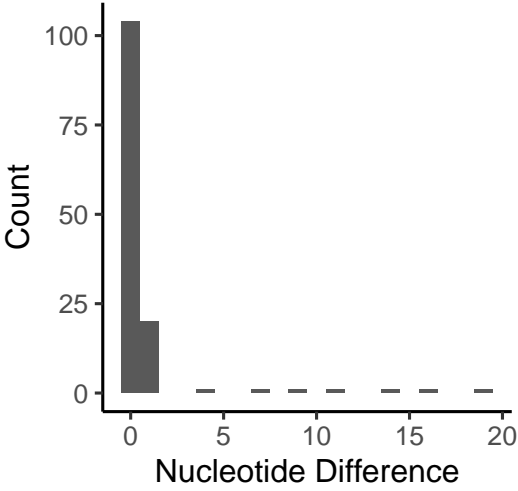
IGHV6–1*01

60 sequences assigned
53 (88.3%) exact matches, in which:
53 unique CDR3
7 unique J

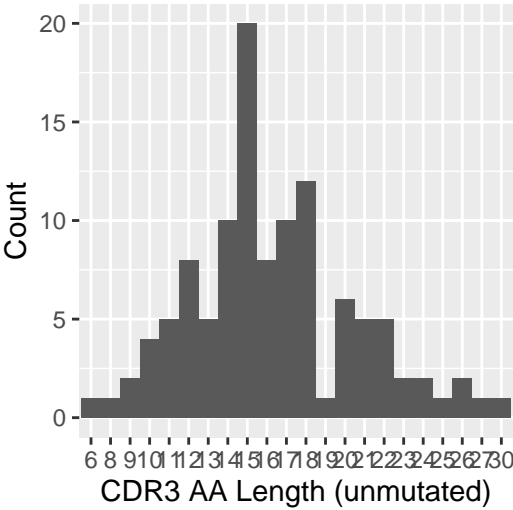


IGHV7–4–1*02

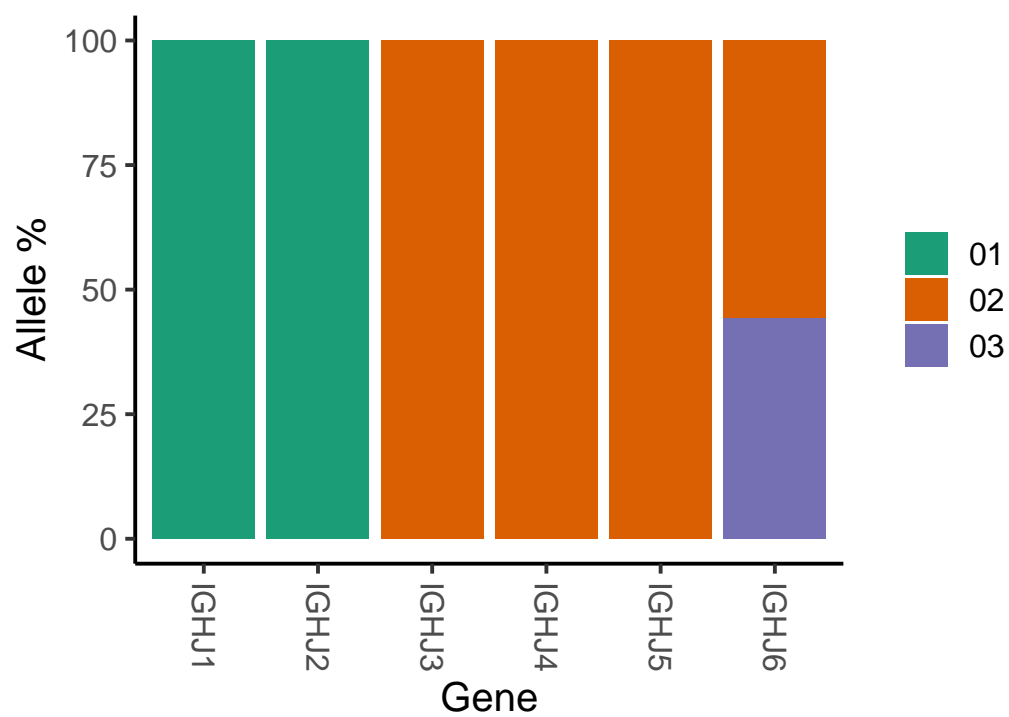
139 sequences assigned
104 (74.8%) exact matches, in which:
103 unique CDR3
6 unique J



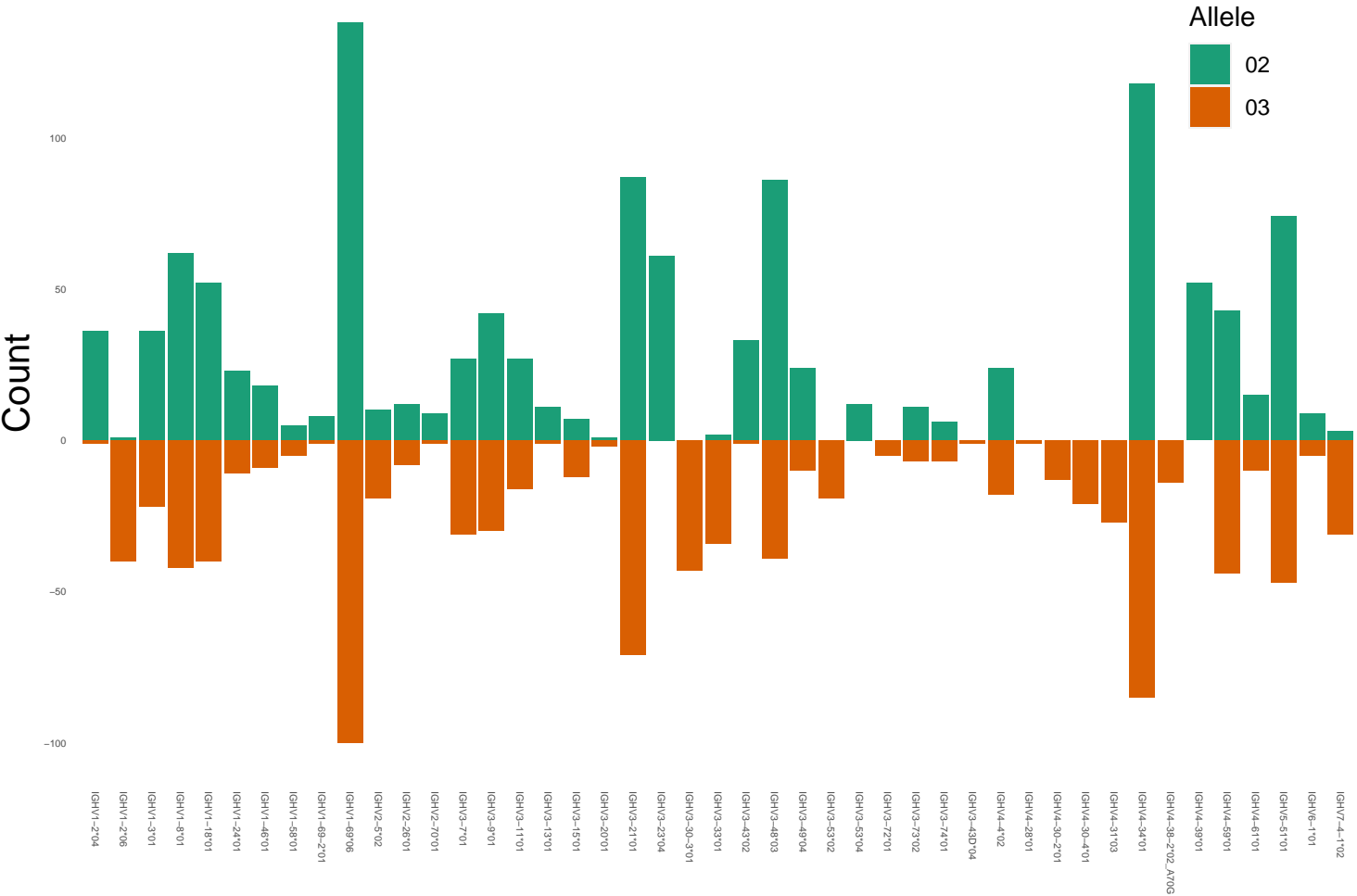
IGHV4-38-2*02_A70G



Allele Usage



Sequence Count by IGHJ6 allele usage



[illegible]