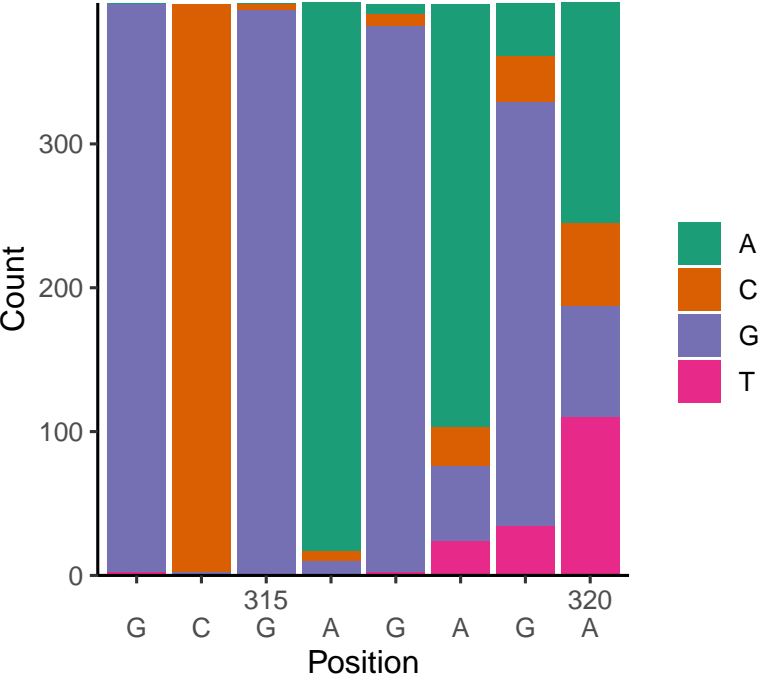
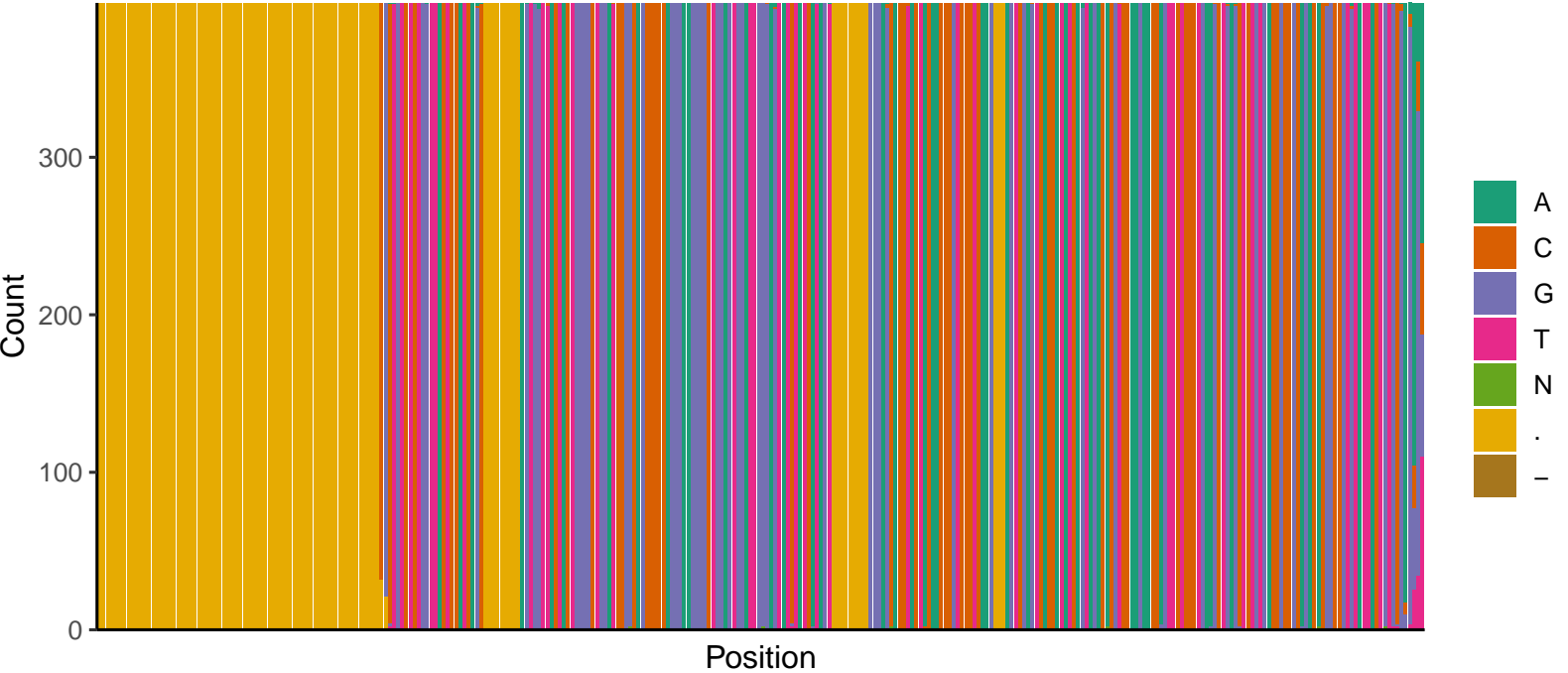


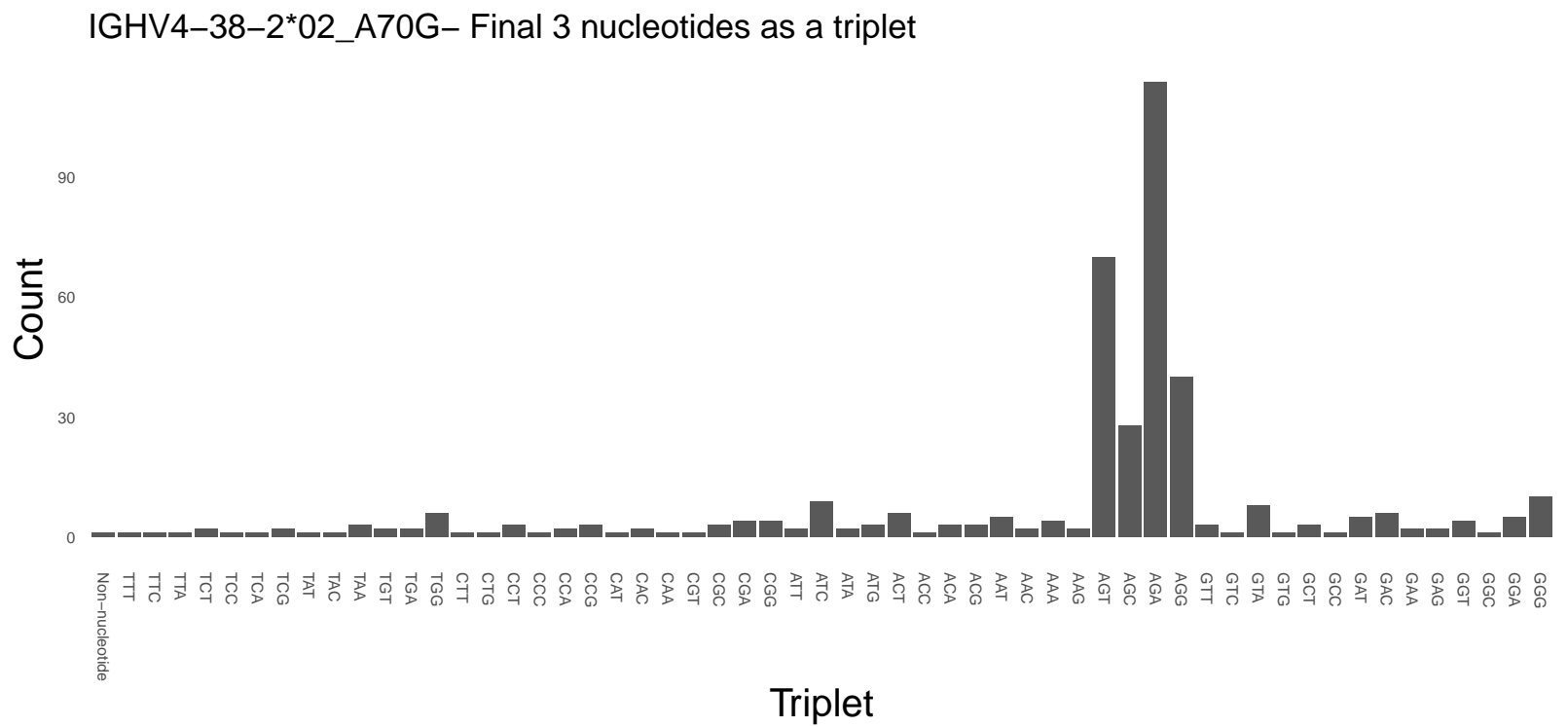
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

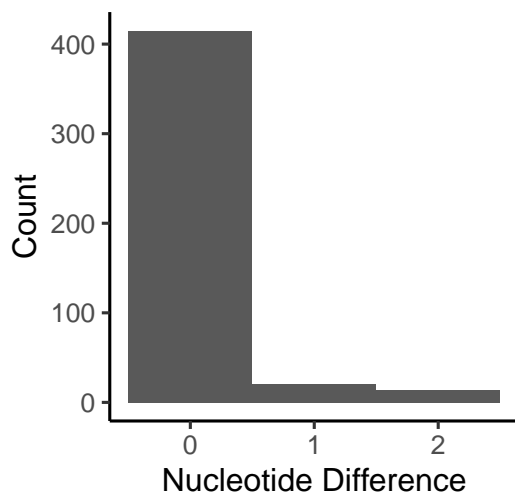


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



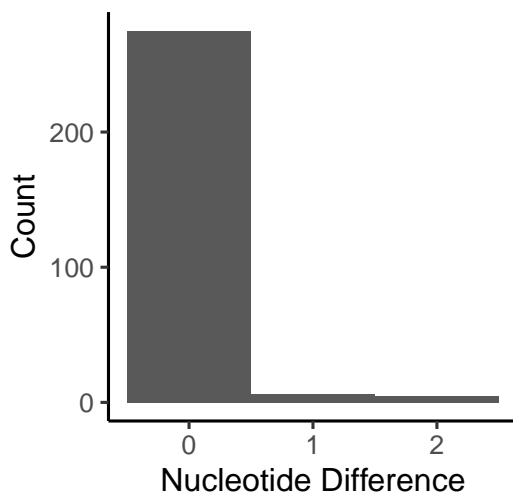
IGHV1-2*04

450 sequences assigned
415 (92.2%) exact matches, in which:
413 unique CDR3
6 unique J



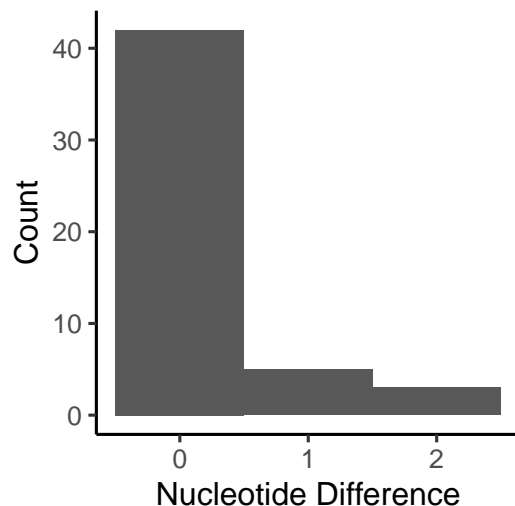
IGHV1-24*01

286 sequences assigned
275 (96.2%) exact matches, in which:
275 unique CDR3
7 unique J



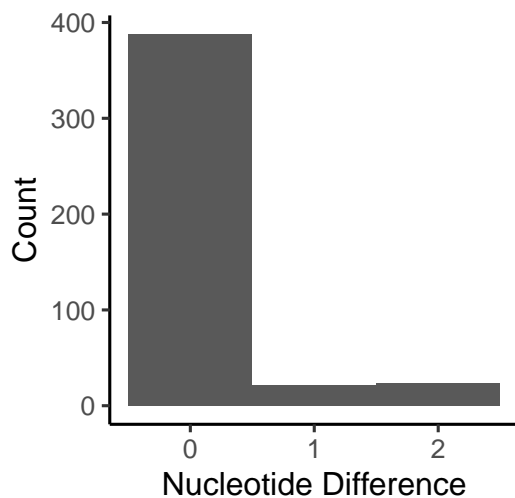
IGHV1-58*02

50 sequences assigned
42 (84%) exact matches, in which:
42 unique CDR3
5 unique J



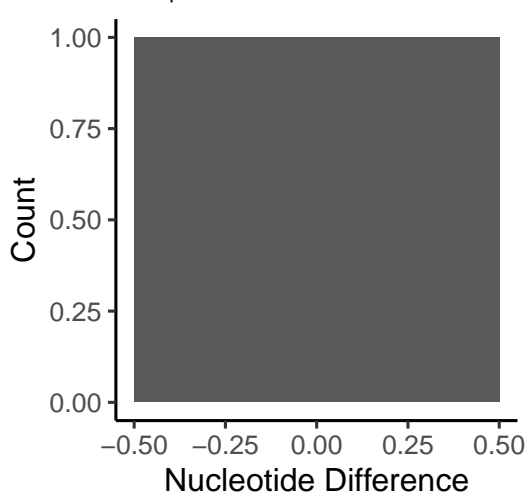
IGHV1-3*01_05

432 sequences assigned
388 (89.8%) exact matches, in which:
387 unique CDR3
7 unique J



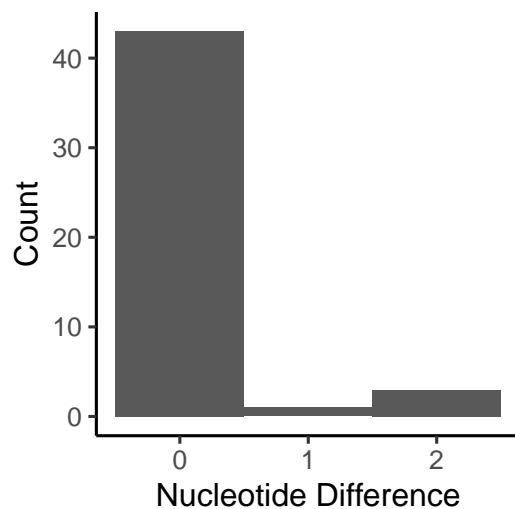
IGHV1-45*02

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



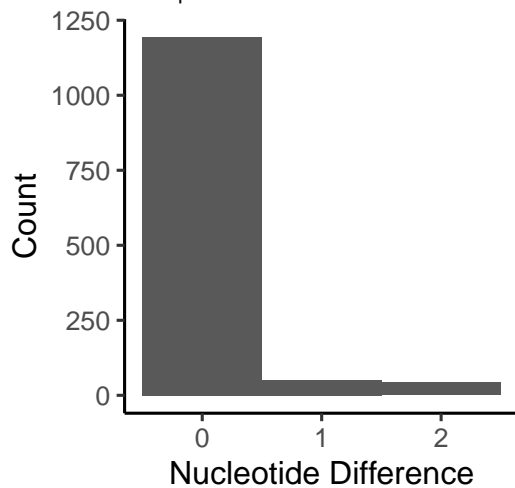
IGHV1-58*01_03

47 sequences assigned
43 (91.5%) exact matches, in which:
43 unique CDR3
4 unique J



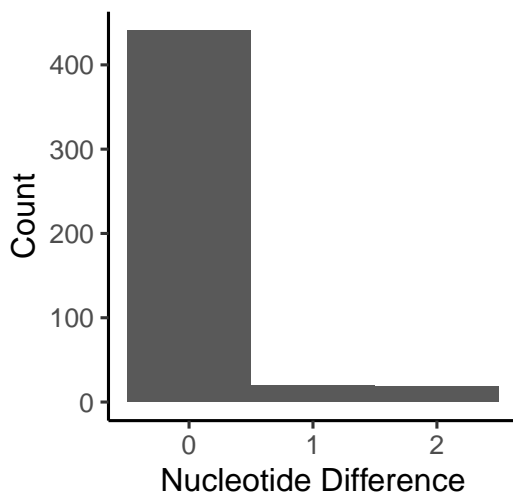
IGHV1-18*01

1287 sequences assigned
1194 (92.8%) exact matches, in which:
1192 unique CDR3
7 unique J



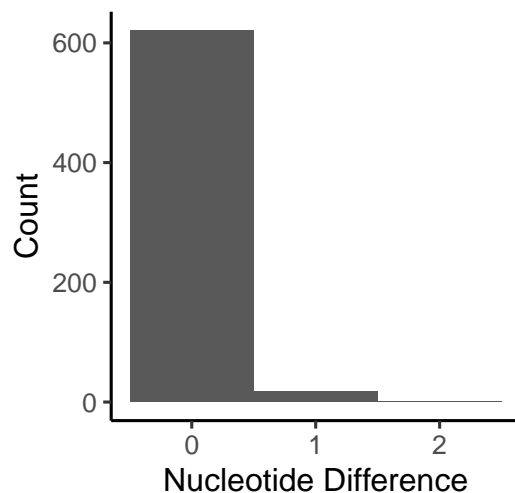
IGHV1-46*01

479 sequences assigned
441 (92.1%) exact matches, in which:
440 unique CDR3
7 unique J



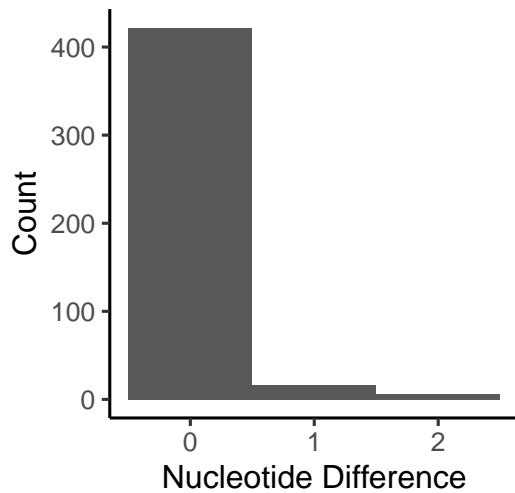
IGHV1-69*04_09

640 sequences assigned
621 (97%) exact matches, in which:
621 unique CDR3
7 unique J



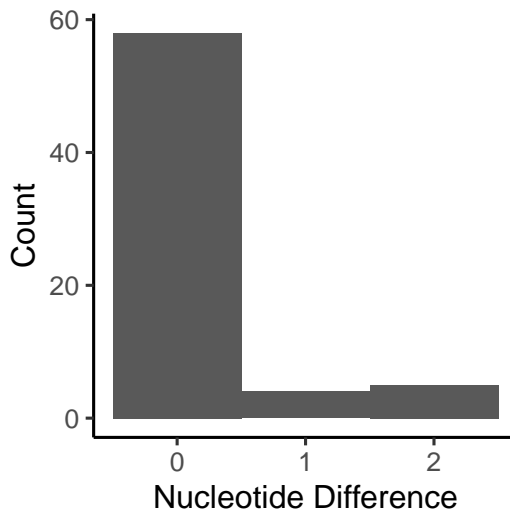
IGHV1–69*06_14

444 sequences assigned
422 (95%) exact matches, in which:
421 unique CDR3
6 unique J



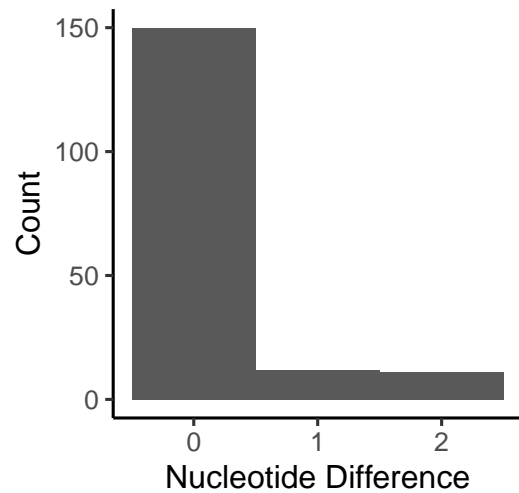
IGHV2–70*01

67 sequences assigned
58 (86.6%) exact matches, in which:
57 unique CDR3
4 unique J



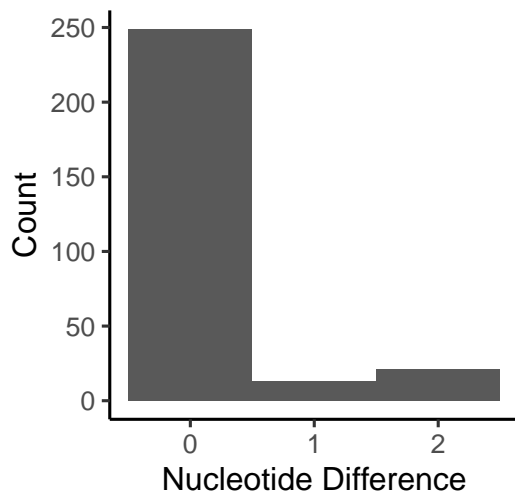
IGHV3–7*04

173 sequences assigned
150 (86.7%) exact matches, in which:
148 unique CDR3
6 unique J



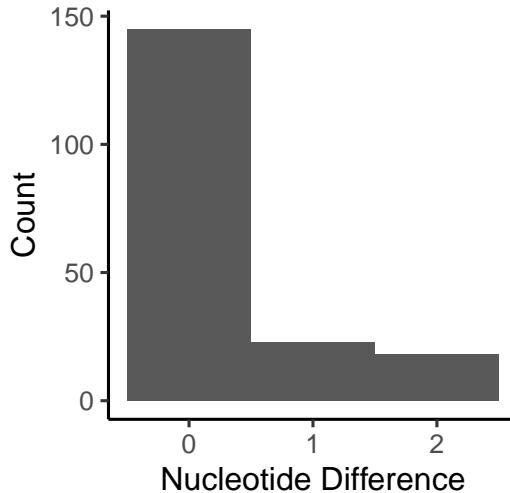
IGHV2–5*02

283 sequences assigned
249 (88%) exact matches, in which:
249 unique CDR3
7 unique J



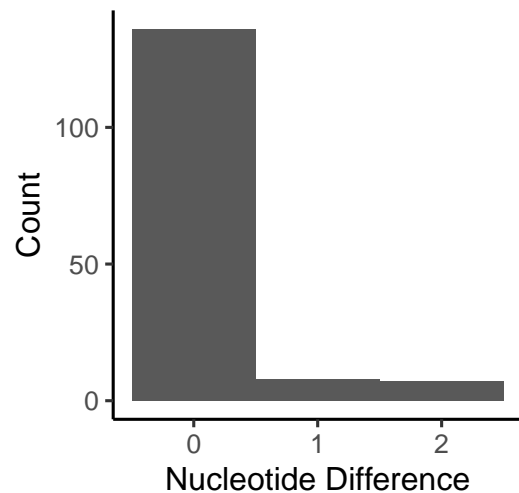
IGHV2–70*11_15

186 sequences assigned
145 (78%) exact matches, in which:
144 unique CDR3
5 unique J



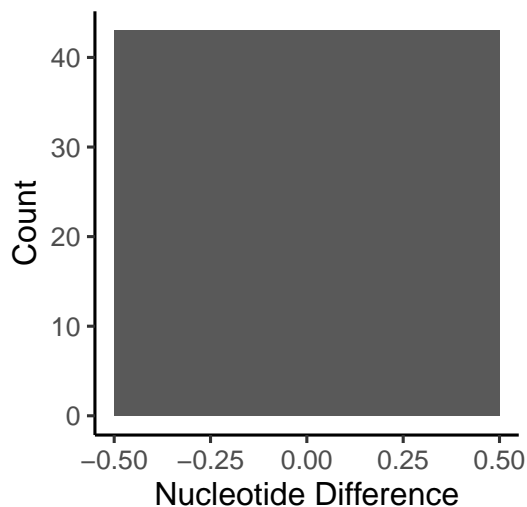
IGHV3–11*06

151 sequences assigned
136 (90.1%) exact matches, in which:
136 unique CDR3
6 unique J



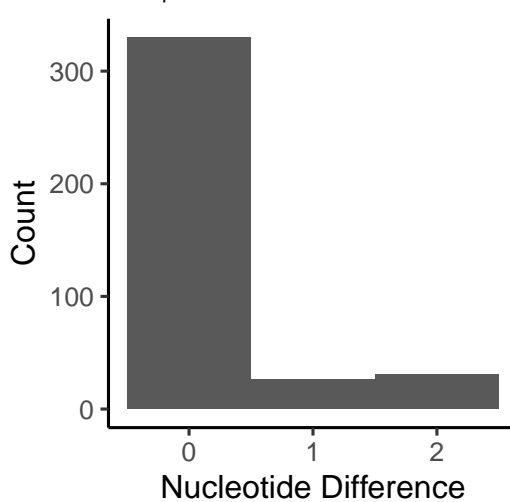
IGHV2–26*01

43 sequences assigned
43 (100%) exact matches, in which:
43 unique CDR3
5 unique J



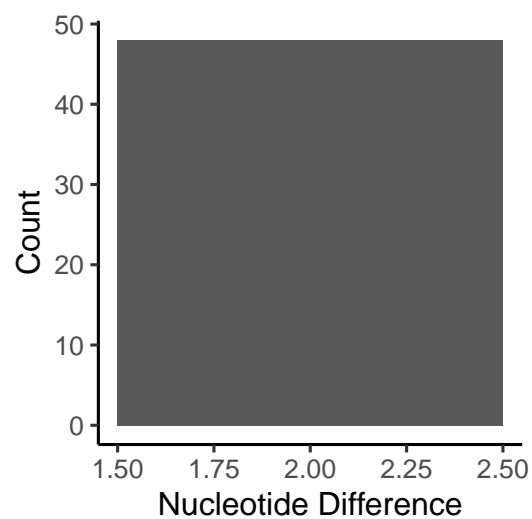
IGHV3–7*03

387 sequences assigned
330 (85.3%) exact matches, in which:
322 unique CDR3
7 unique J



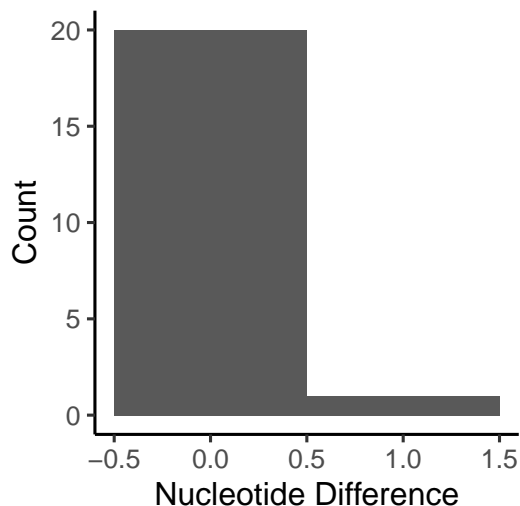
IGHV3–13*01

48 sequences assigned
No exact matches.



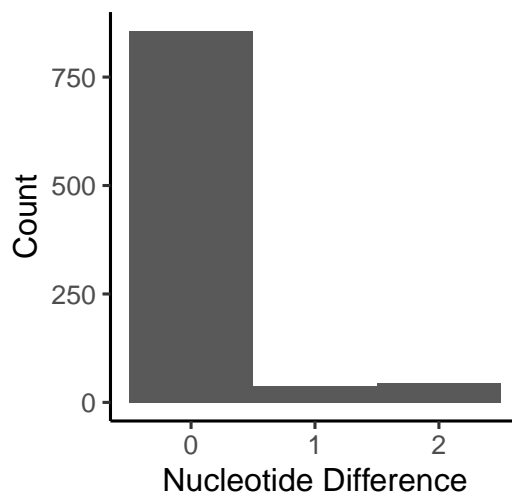
IGHV3-13*05

21 sequences assigned
20 (95.2%) exact matches, in which:
19 unique CDR3
4 unique J



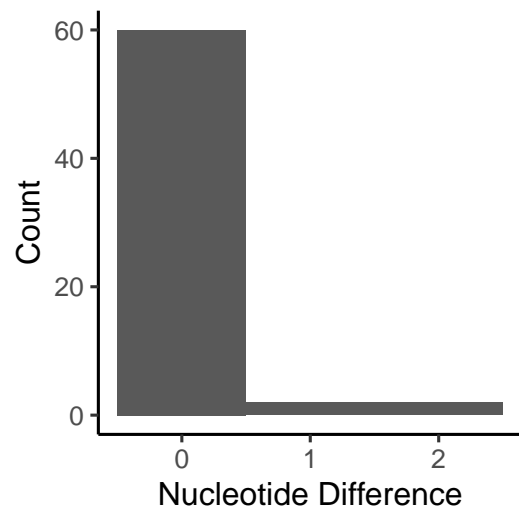
IGHV3-21*01_02

938 sequences assigned
857 (91.4%) exact matches, in which:
826 unique CDR3
7 unique J



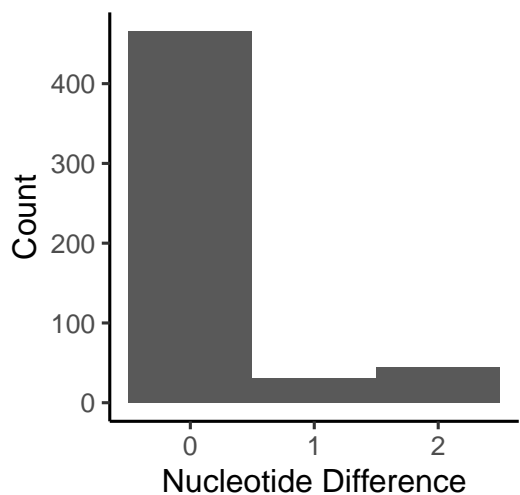
IGHV3-43*01

64 sequences assigned
60 (93.8%) exact matches, in which:
60 unique CDR3
6 unique J



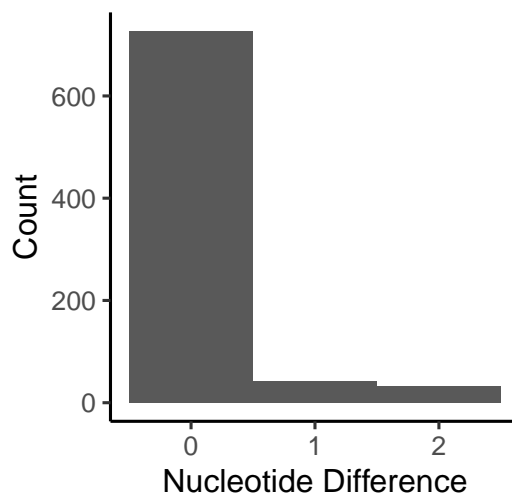
IGHV3-15*07

542 sequences assigned
466 (86%) exact matches, in which:
453 unique CDR3
7 unique J



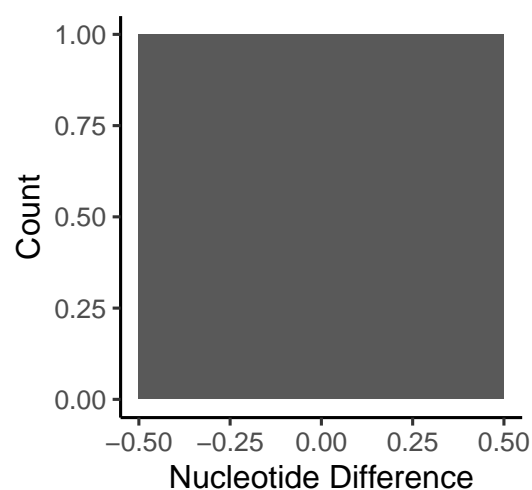
IGHV3-30-3*01

801 sequences assigned
727 (90.8%) exact matches, in which:
716 unique CDR3
7 unique J



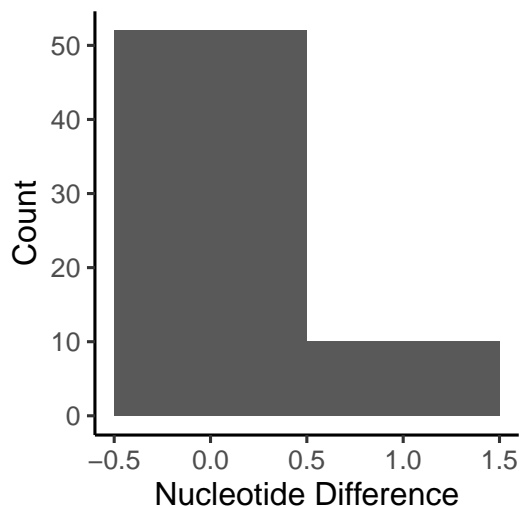
IGHV3-47*02

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



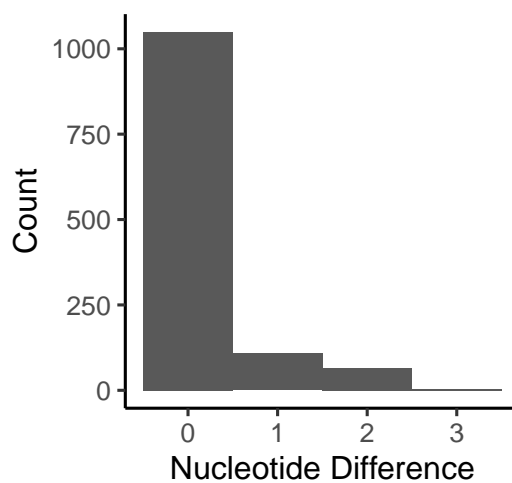
IGHV3-20*03_04

62 sequences assigned
52 (83.9%) exact matches, in which:
51 unique CDR3
6 unique J



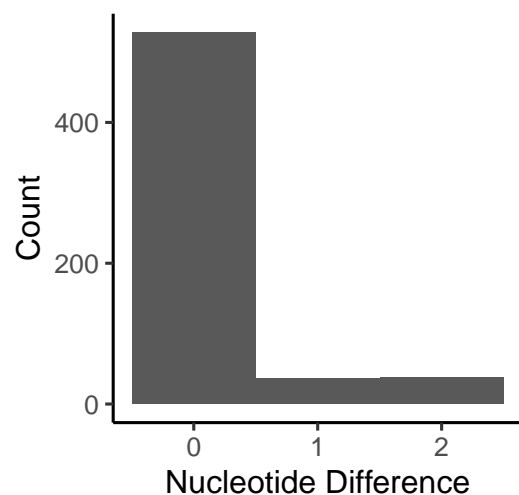
IGHV3-33*01

1226 sequences assigned
1049 (85.6%) exact matches, in which:
1022 unique CDR3
7 unique J



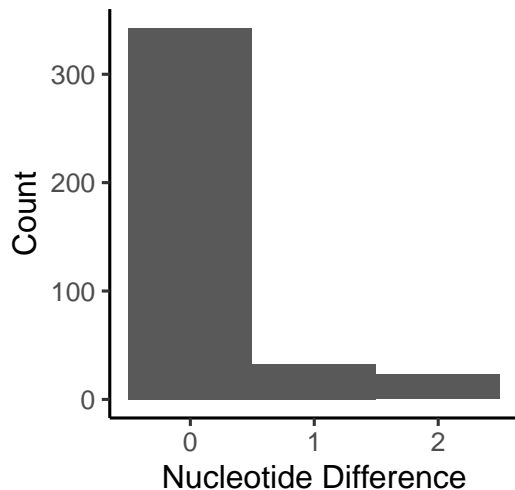
IGHV3-48*02

602 sequences assigned
528 (87.7%) exact matches, in which:
509 unique CDR3
6 unique J



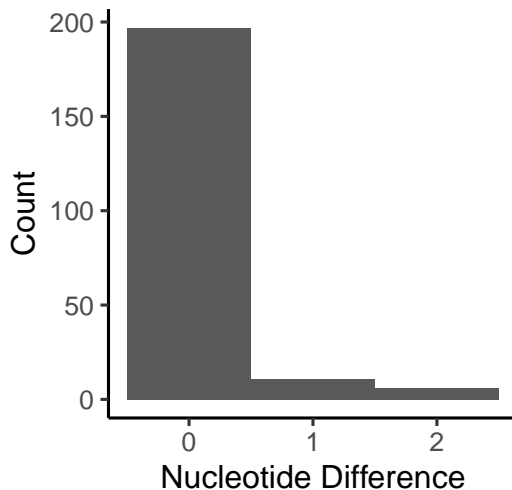
IGHV3-48*03

399 sequences assigned
343 (86%) exact matches, in which:
332 unique CDR3
6 unique J



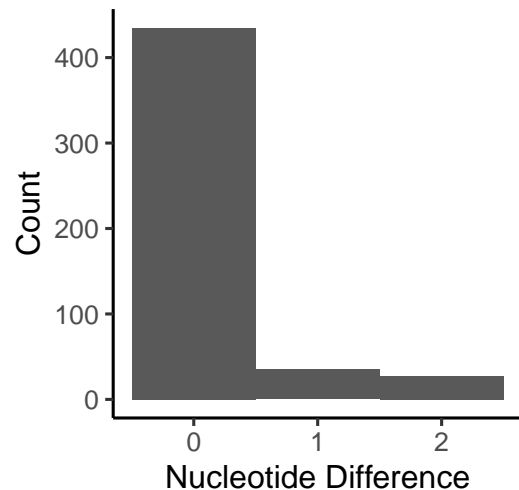
IGHV3-53*04

214 sequences assigned
197 (92.1%) exact matches, in which:
188 unique CDR3
6 unique J



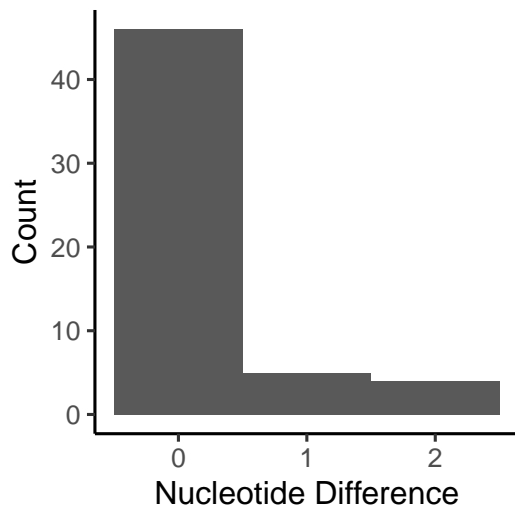
IGHV3-66*01

497 sequences assigned
435 (87.5%) exact matches, in which:
417 unique CDR3
6 unique J



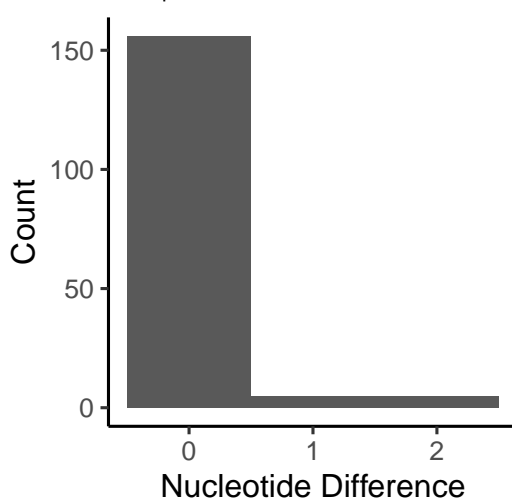
IGHV3-49*04

55 sequences assigned
46 (83.6%) exact matches, in which:
46 unique CDR3
4 unique J



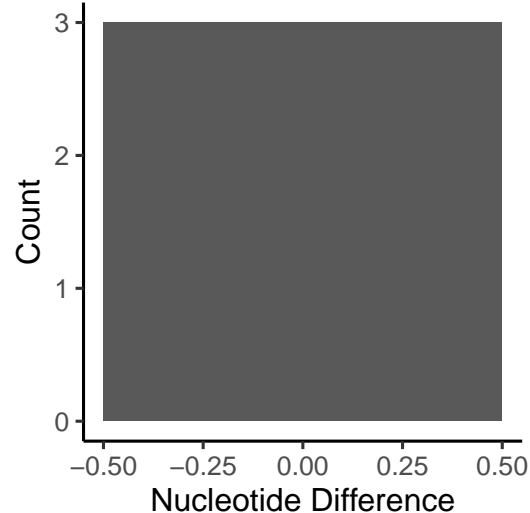
IGHV3-53*01_02

166 sequences assigned
156 (94%) exact matches, in which:
154 unique CDR3
6 unique J



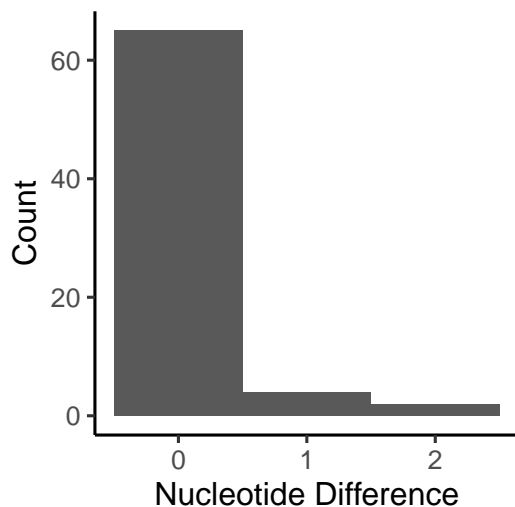
IGHV3-69-1*01

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



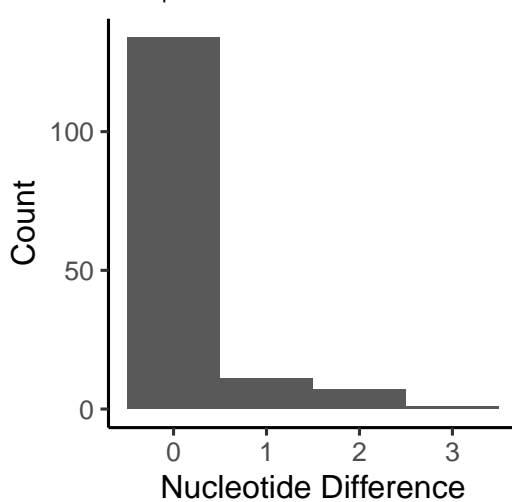
IGHV3-49*03_05

71 sequences assigned
65 (91.5%) exact matches, in which:
65 unique CDR3
4 unique J



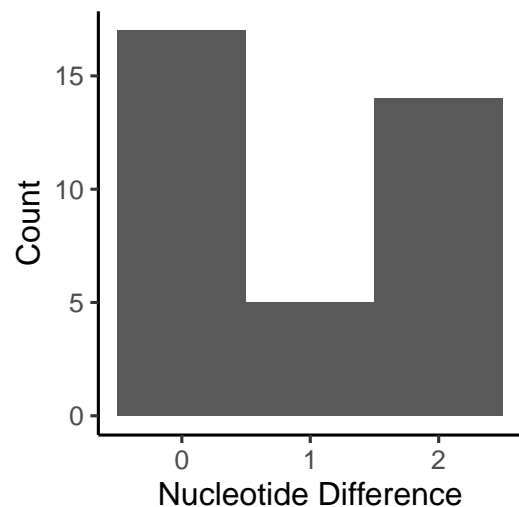
IGHV3-64*01

153 sequences assigned
134 (87.6%) exact matches, in which:
125 unique CDR3
6 unique J



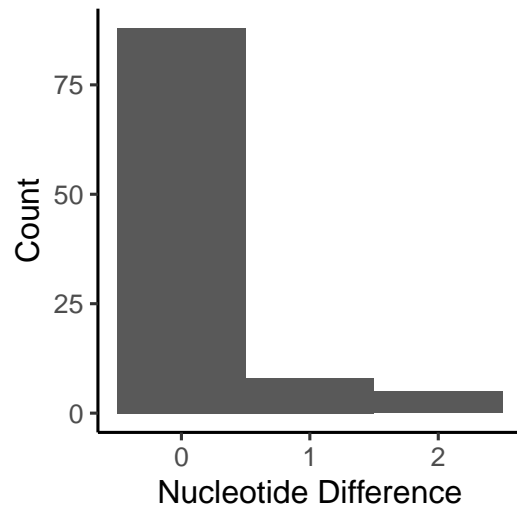
IGHV3-72*01

36 sequences assigned
17 (47.2%) exact matches, in which:
17 unique CDR3
5 unique J



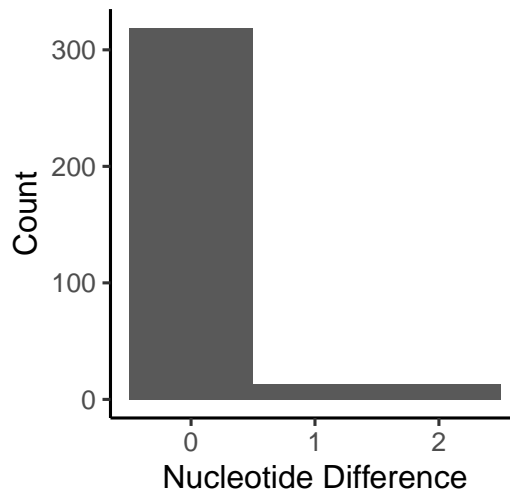
IGHV3-73*01_02

101 sequences assigned
88 (87.1%) exact matches, in which:
87 unique CDR3
5 unique J



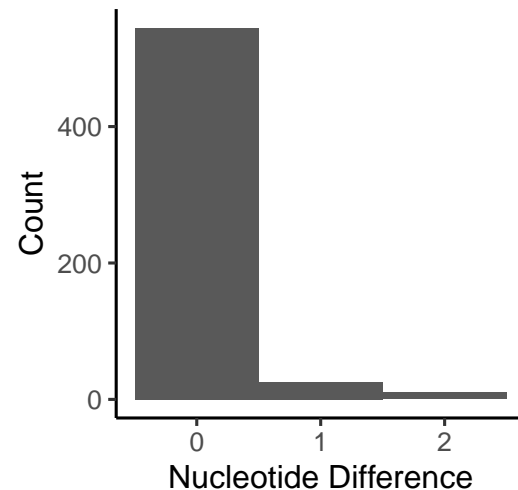
IGHV3-64D*06

345 sequences assigned
319 (92.5%) exact matches, in which:
311 unique CDR3
7 unique J



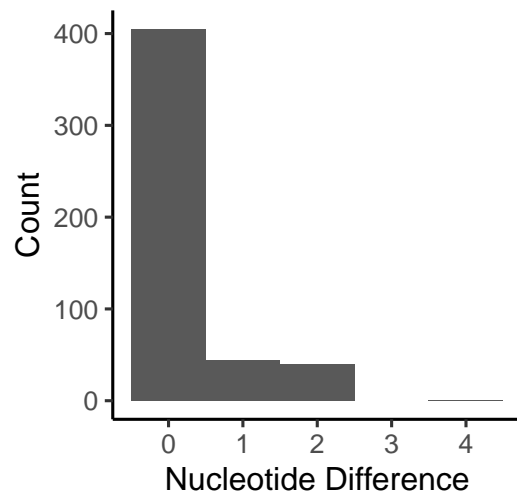
IGHV4-30-2*01

580 sequences assigned
545 (94%) exact matches, in which:
528 unique CDR3
7 unique J



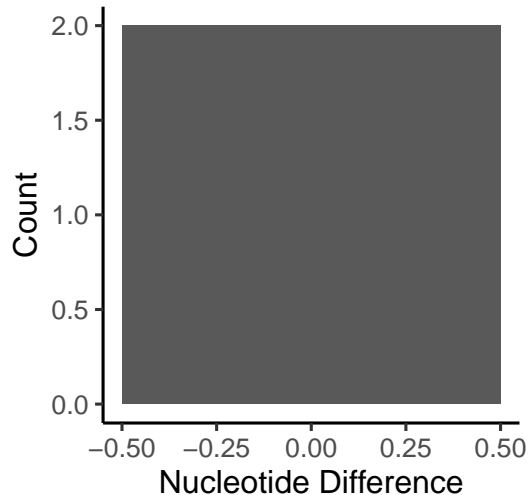
IGHV3-74*01_02

490 sequences assigned
405 (82.7%) exact matches, in which:
387 unique CDR3
7 unique J



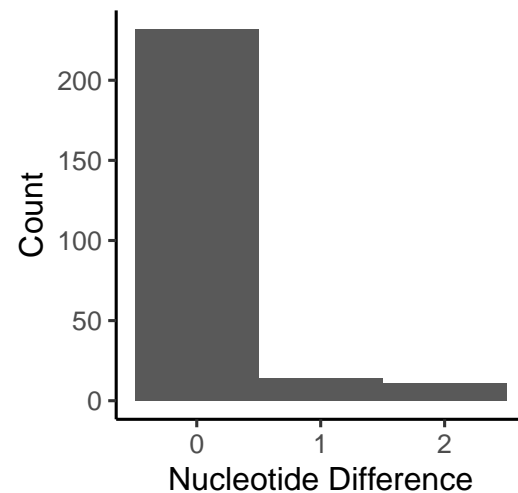
IGHV4-28*03

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



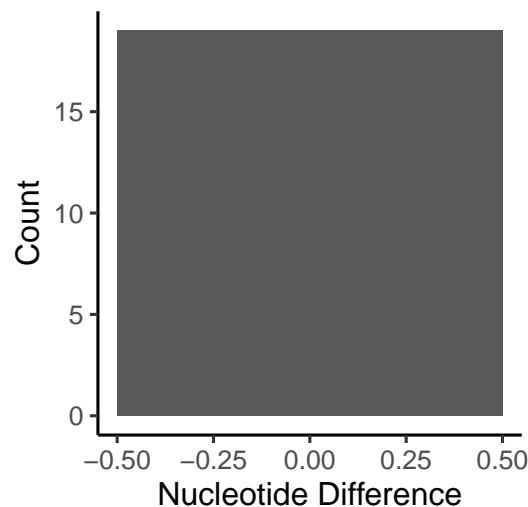
IGHV4-30-4*01

257 sequences assigned
232 (90.3%) exact matches, in which:
226 unique CDR3
5 unique J



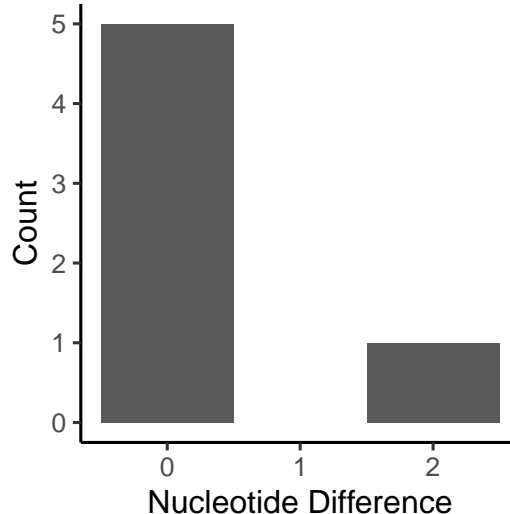
IGHV3-43D*04

19 sequences assigned
19 (100%) exact matches, in which:
19 unique CDR3
3 unique J



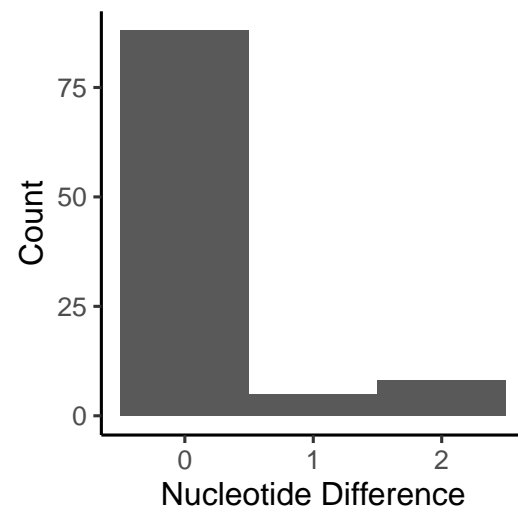
IGHV4-28*01_07

6 sequences assigned
5 (83.3%) exact matches, in which:
4 unique CDR3
4 unique J



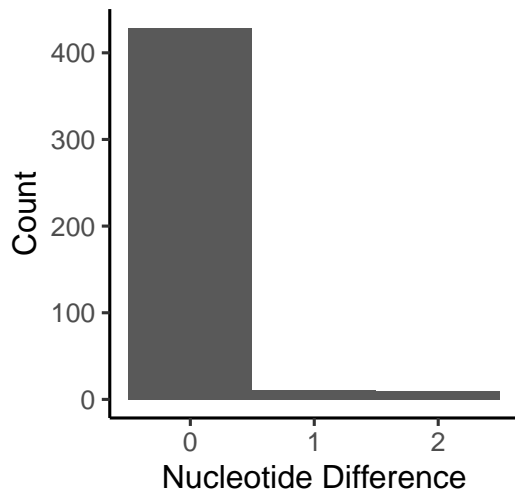
IGHV4-31*01

101 sequences assigned
88 (87.1%) exact matches, in which:
88 unique CDR3
5 unique J



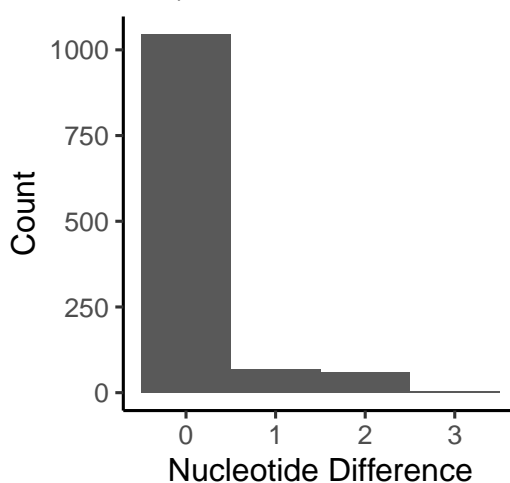
IGHV4-31*03_04

450 sequences assigned
429 (95.3%) exact matches, in which:
421 unique CDR3
7 unique J



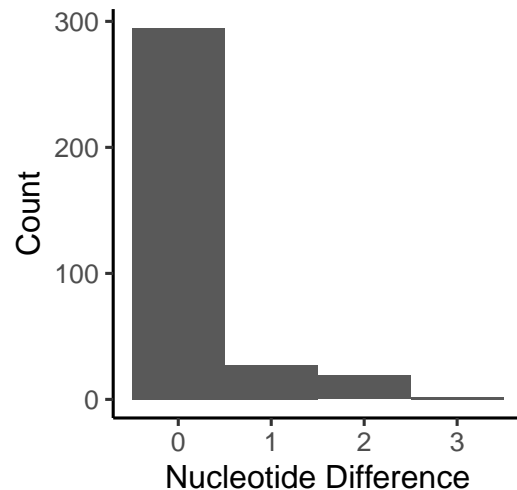
IGHV4-39*01_05

1176 sequences assigned
1045 (88.9%) exact matches, in which:
1025 unique CDR3
7 unique J



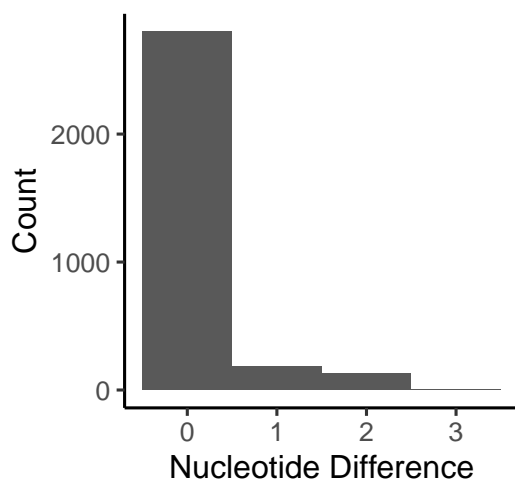
IGHV4-61*01

343 sequences assigned
295 (86%) exact matches, in which:
288 unique CDR3
7 unique J



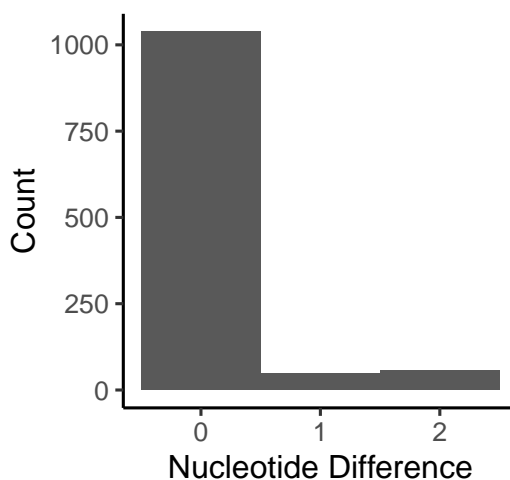
IGHV4-34*01_02

3118 sequences assigned
2800 (89.8%) exact matches, in which:
2703 unique CDR3
7 unique J



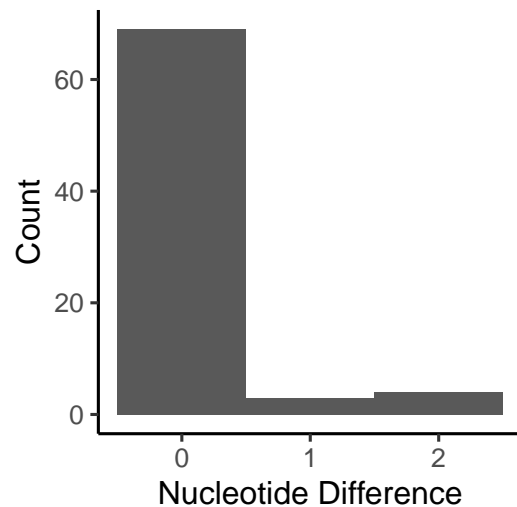
IGHV4-59*08

1143 sequences assigned
1038 (90.8%) exact matches, in which:
1002 unique CDR3
7 unique J



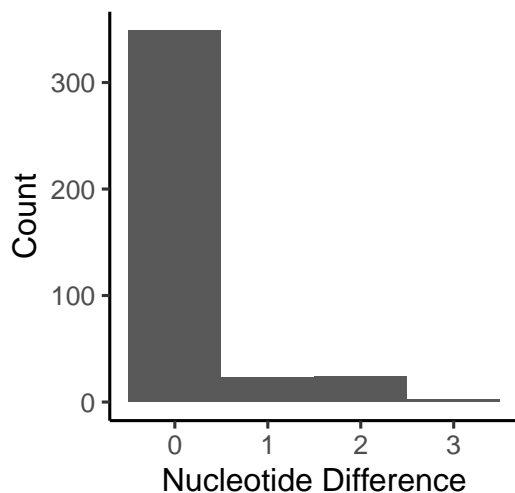
IGHV5-10-1*01_03

76 sequences assigned
69 (90.8%) exact matches, in which:
69 unique CDR3
5 unique J



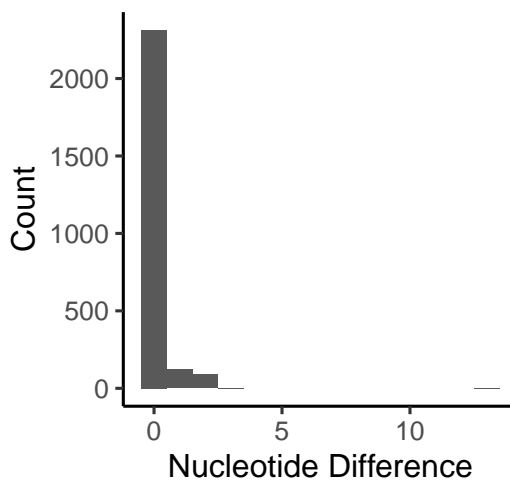
IGHV4-38-2*02_A70G

398 sequences assigned
349 (87.7%) exact matches, in which:
343 unique CDR3
6 unique J



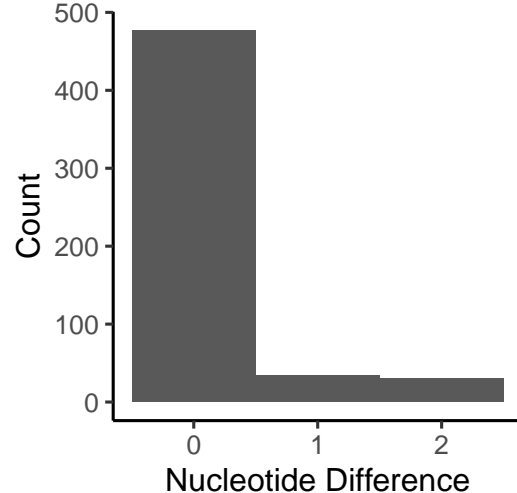
IGHV4-59*01_07

2526 sequences assigned
2313 (91.6%) exact matches, in which:
2258 unique CDR3
7 unique J



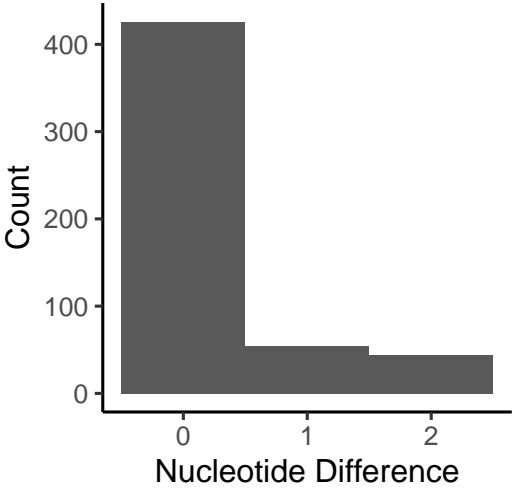
IGHV5-51*01_03

541 sequences assigned
477 (88.2%) exact matches, in which:
476 unique CDR3
7 unique J



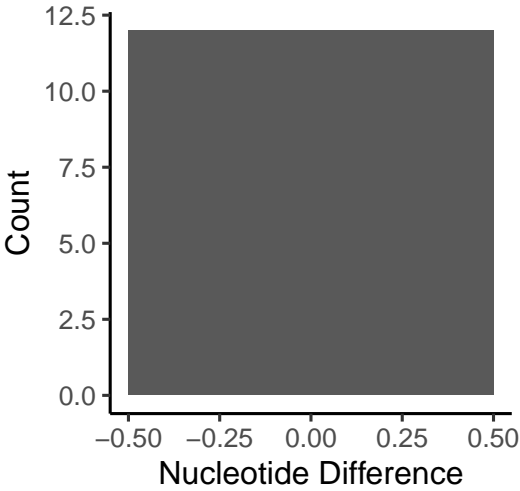
IGHV6-1*01_02

524 sequences assigned
426 (81.3%) exact matches, in which:
426 unique CDR3
7 unique J

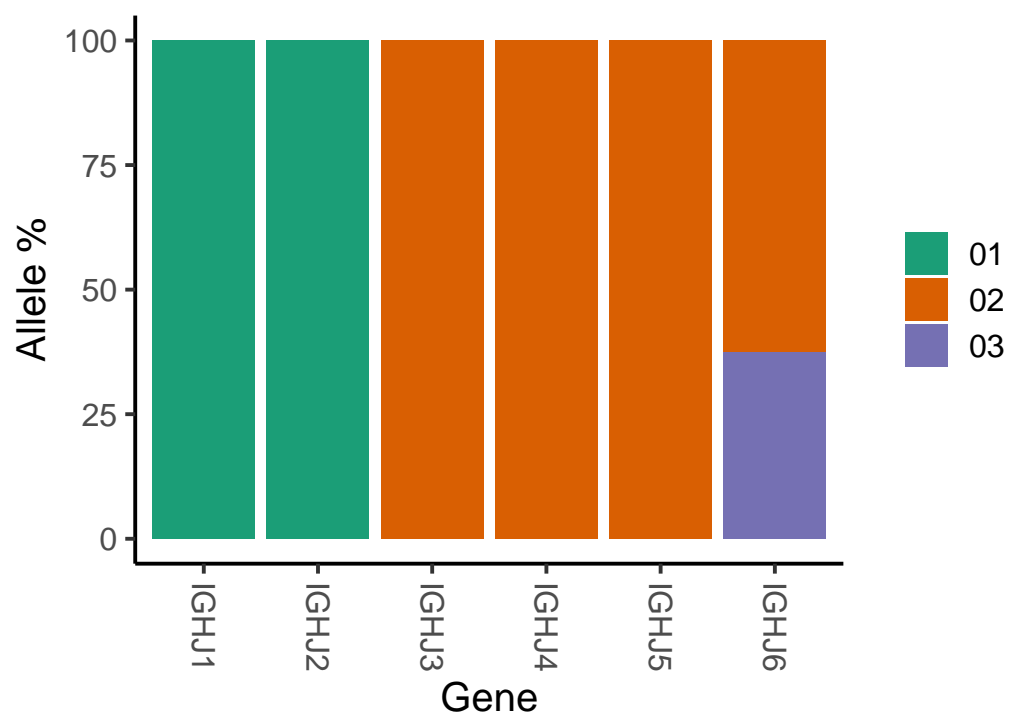


IGHV7-4-1*01

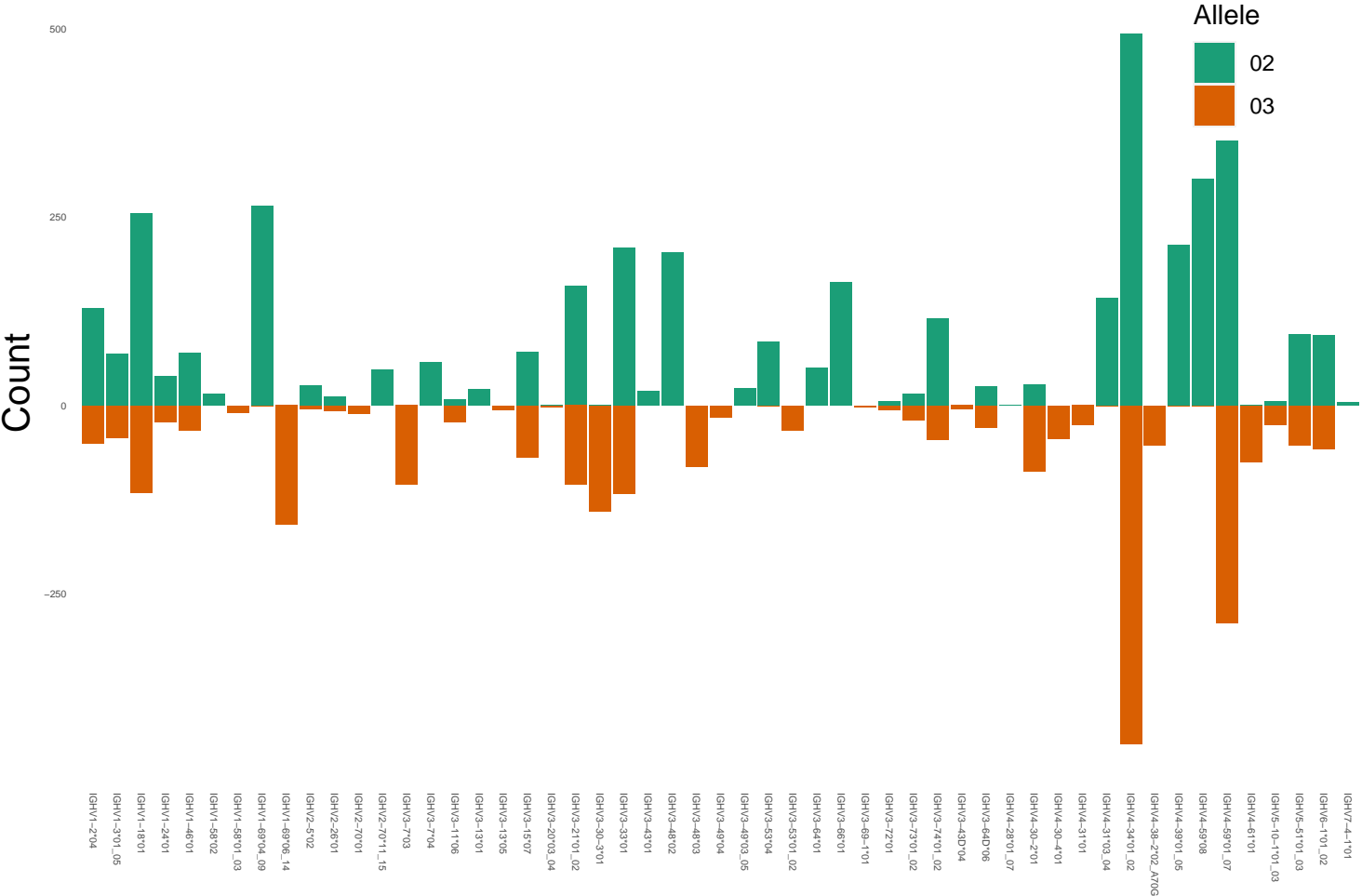
12 sequences assigned
12 (100%) exact matches, in which:
12 unique CDR3
4 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Never sequences(0) for IV 1 00 02=0000 for IV 0 0 07=01200 are not listed in the genotype and will be ignored.