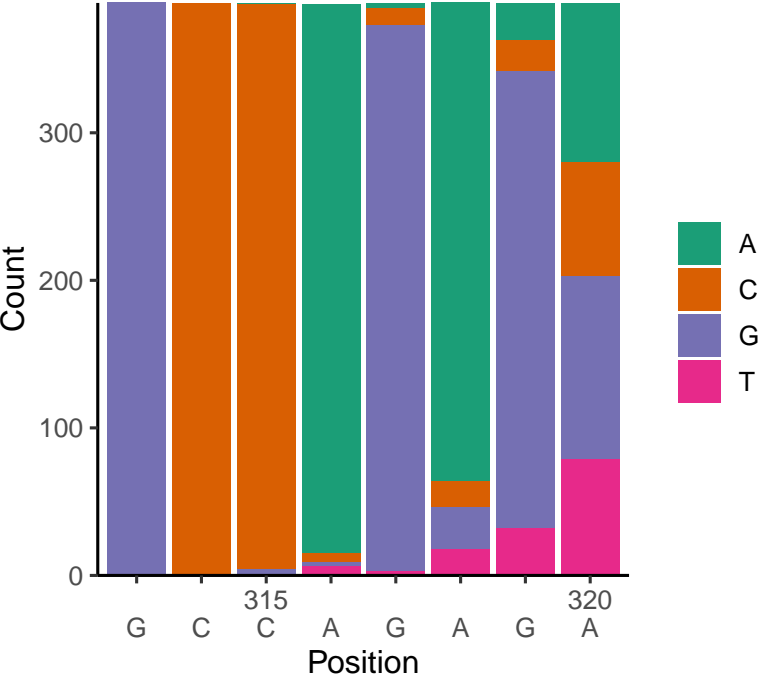
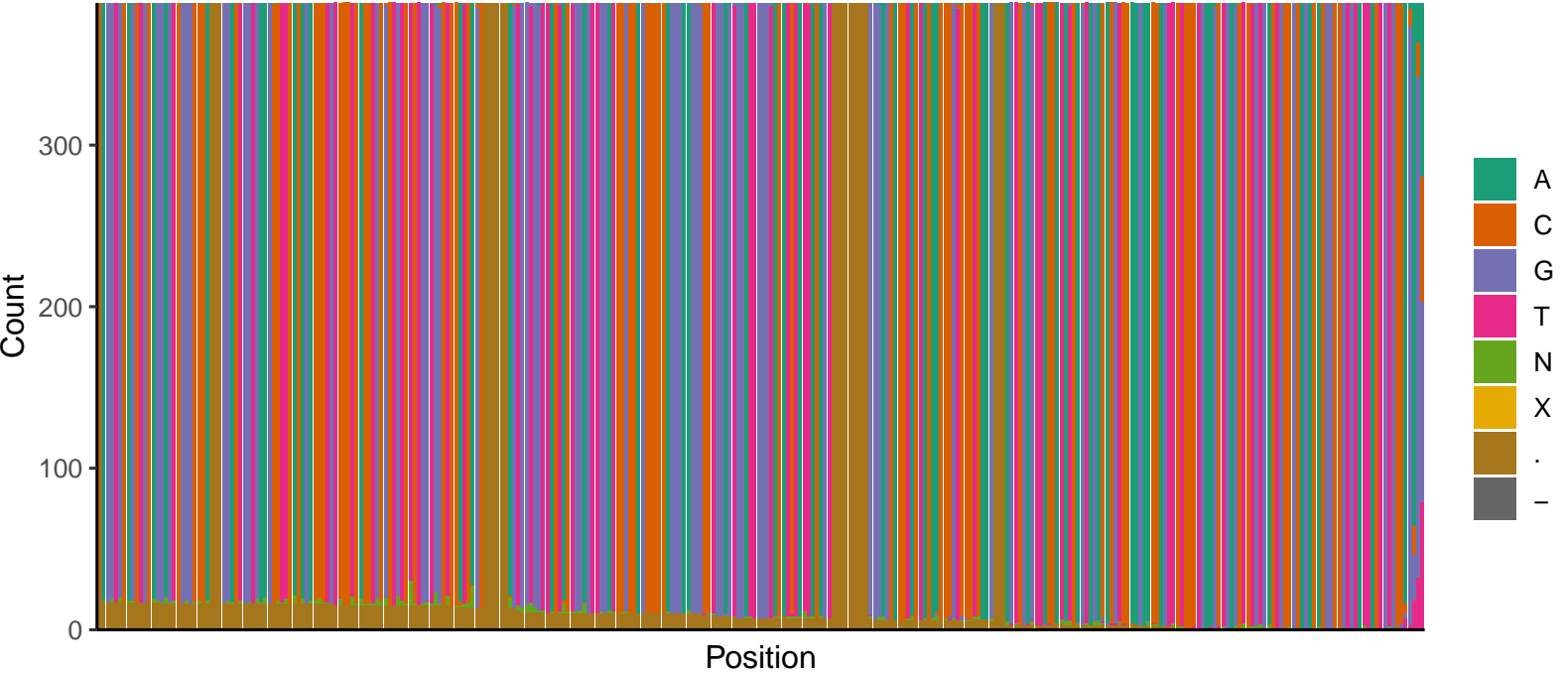


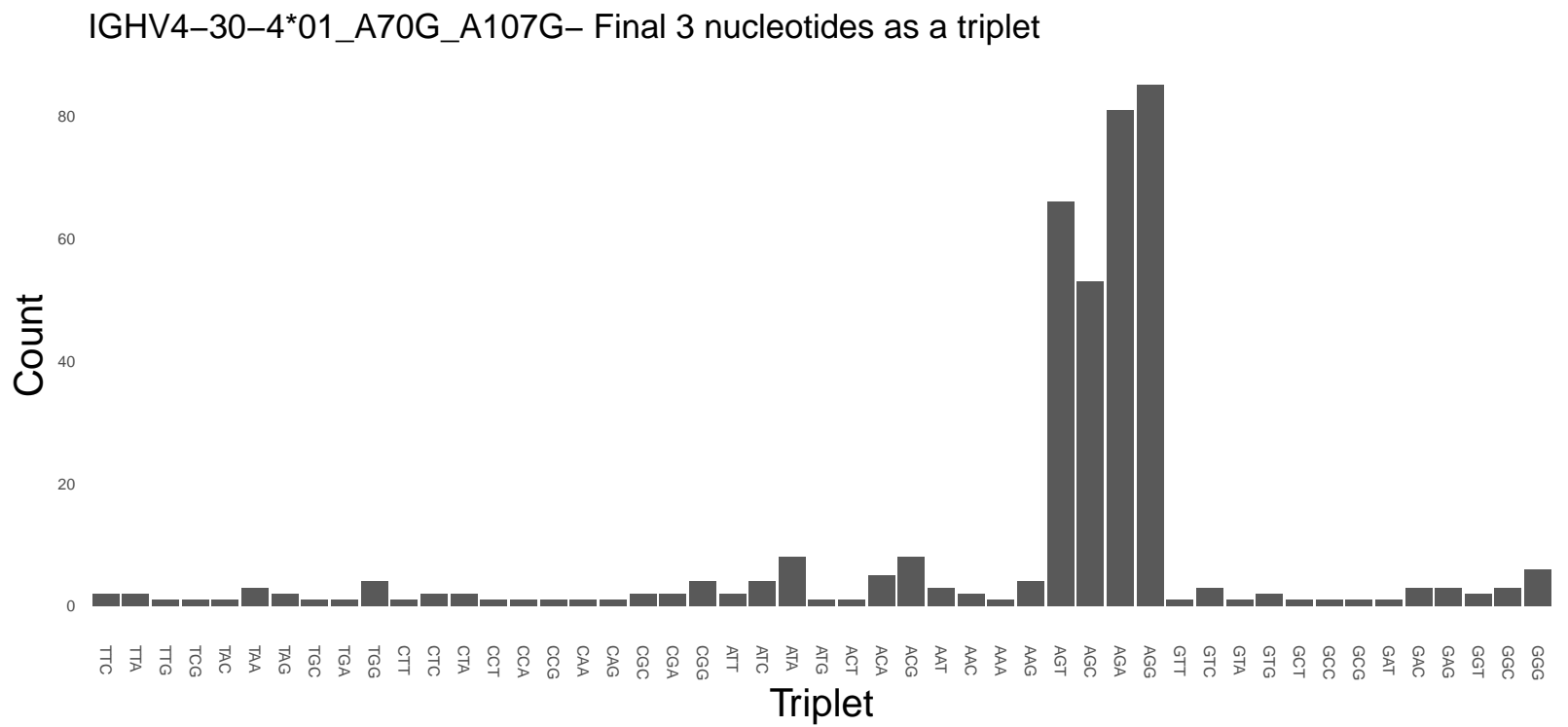
Gene IGHV4-30-4*01_A70G_A107G



Gene IGHV4-30-4*01_A70G_A107G

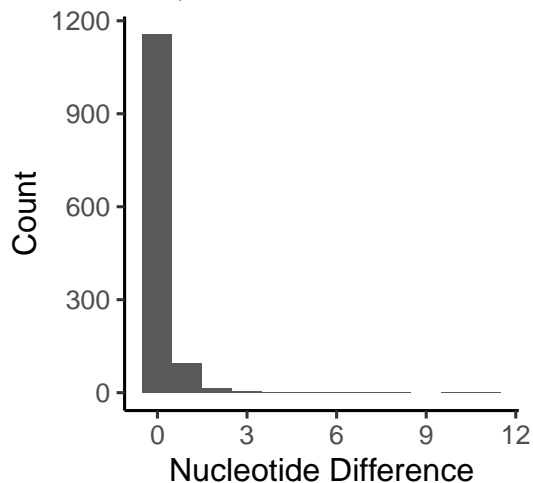


IGHV4-30-4*01_A70G_A107G- Final 3 nucleotides as a triplet



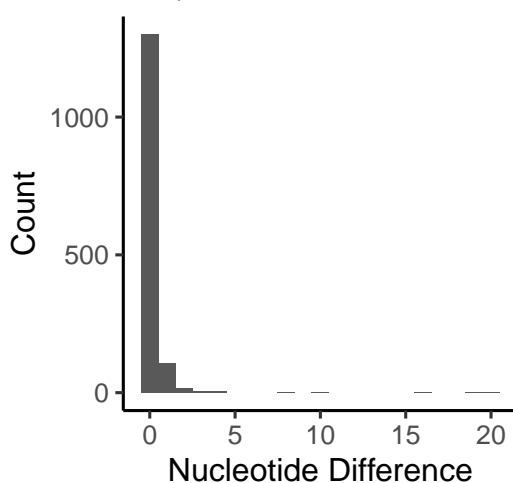
IGHV1-2*02

1285 sequences assigned
1156 (90%) exact matches, in which:
1073 unique CDR3
6 unique J



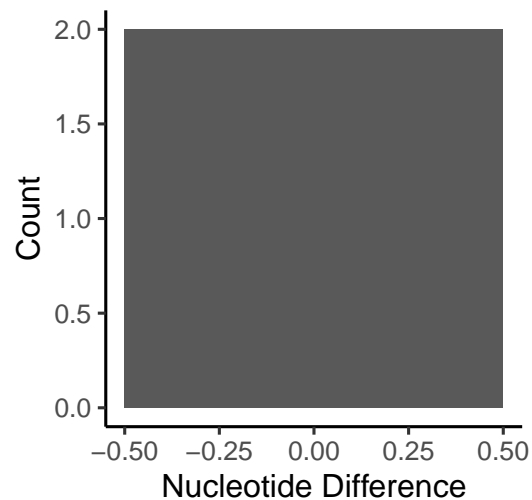
IGHV1-18*04

1439 sequences assigned
1300 (90.3%) exact matches, in which:
1231 unique CDR3
7 unique J



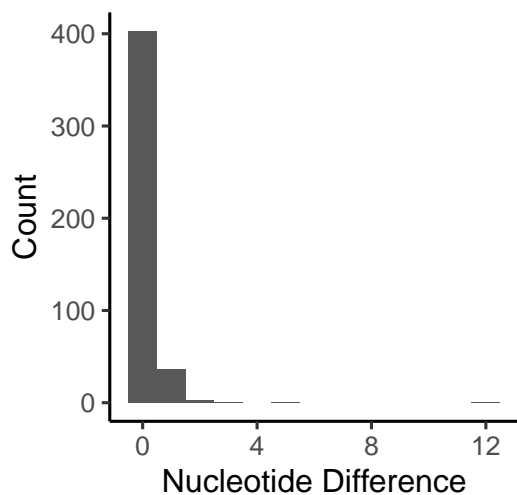
IGHV1-45*03

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



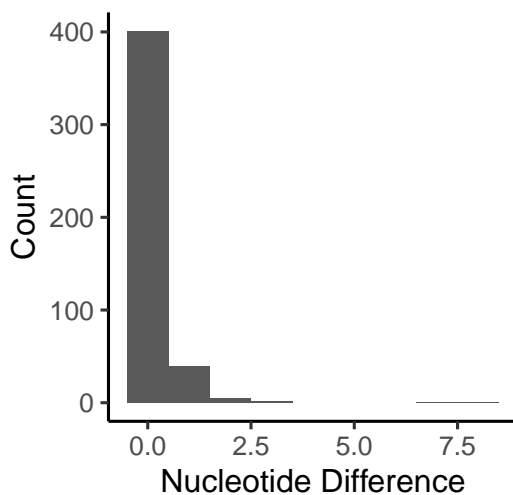
IGHV1-2*04

446 sequences assigned
403 (90.4%) exact matches, in which:
384 unique CDR3
6 unique J



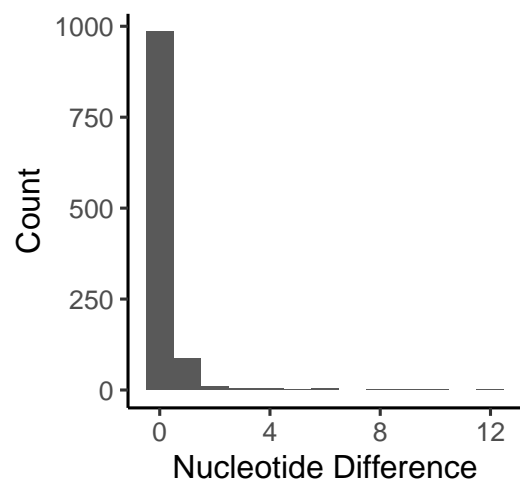
IGHV1-24*01

449 sequences assigned
401 (89.3%) exact matches, in which:
378 unique CDR3
7 unique J



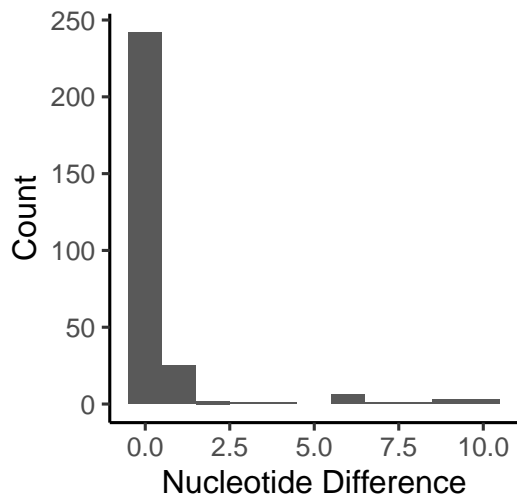
IGHV1-46*01

1097 sequences assigned
985 (89.8%) exact matches, in which:
931 unique CDR3
7 unique J



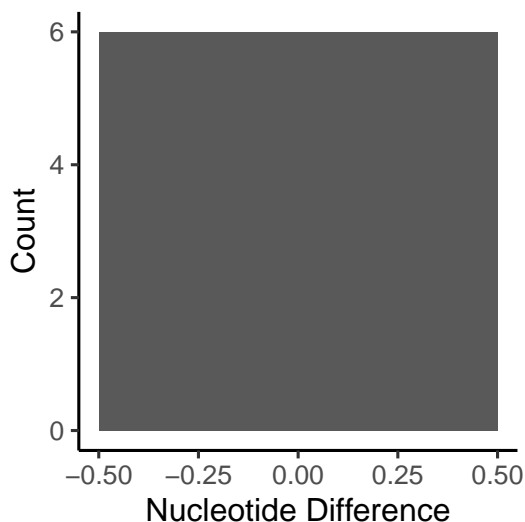
IGHV1-3*01

285 sequences assigned
242 (84.9%) exact matches, in which:
237 unique CDR3
6 unique J



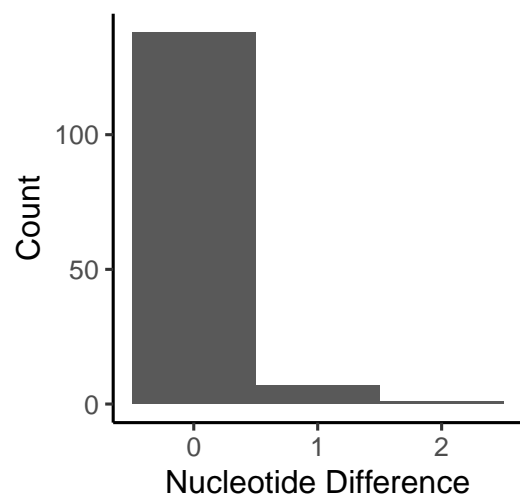
IGHV1-45*02

6 sequences assigned
6 (100%) exact matches, in which:
5 unique CDR3
3 unique J



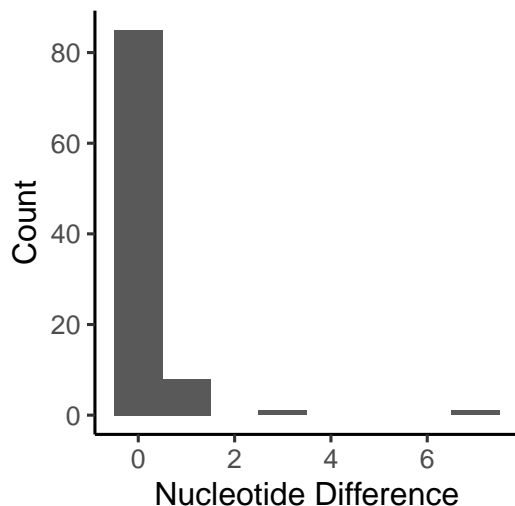
IGHV1-58*01

146 sequences assigned
138 (94.5%) exact matches, in which:
129 unique CDR3
5 unique J



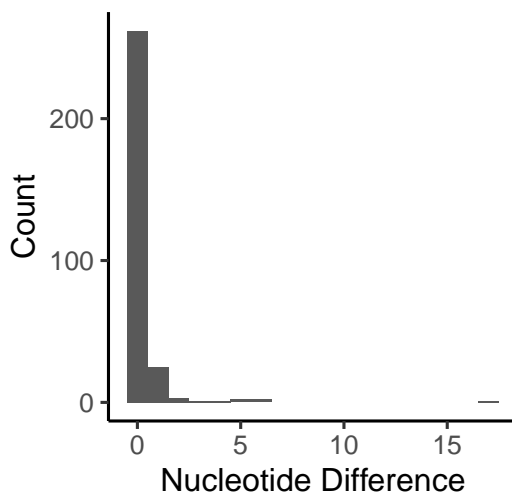
IGHV1–58*02

95 sequences assigned
85 (89.5%) exact matches, in which:
85 unique CDR3
5 unique J



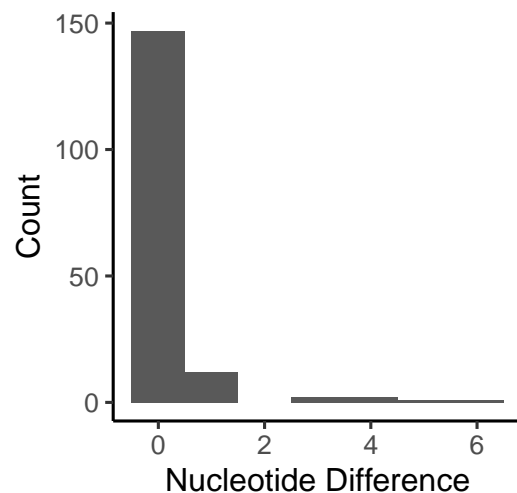
IGHV2–5*02

297 sequences assigned
262 (88.2%) exact matches, in which:
253 unique CDR3
7 unique J



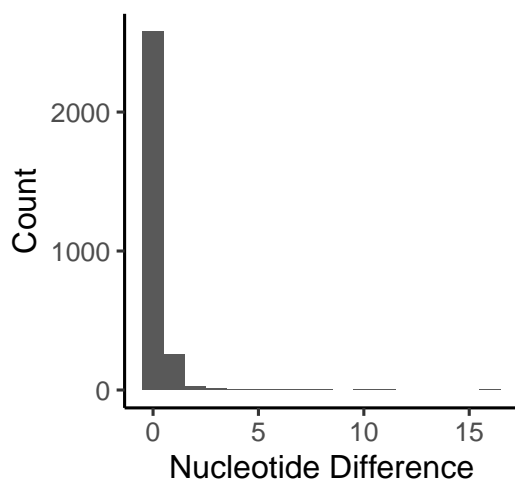
IGHV2–70*15

165 sequences assigned
147 (89.1%) exact matches, in which:
145 unique CDR3
6 unique J



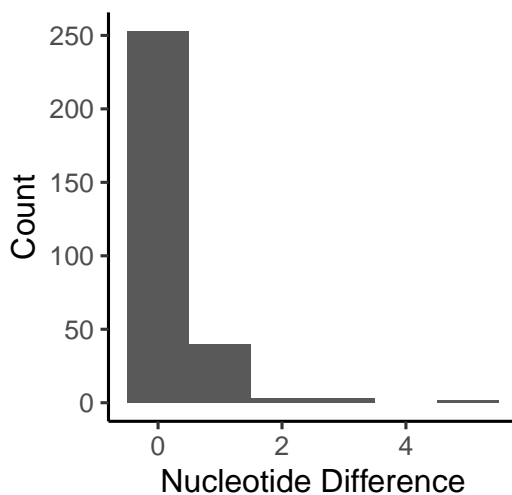
IGHV1–69*01

2890 sequences assigned
2578 (89.2%) exact matches, in which:
2402 unique CDR3
7 unique J



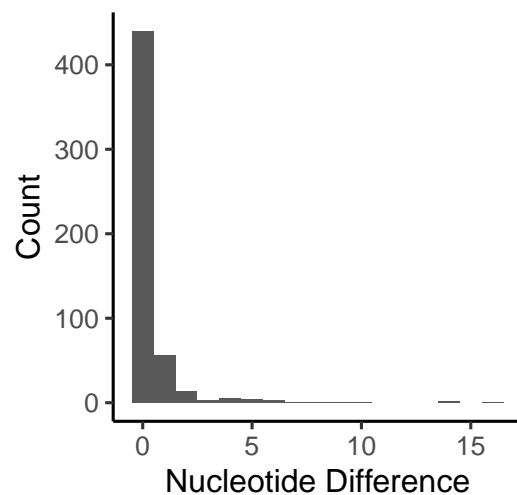
IGHV2–26*01

301 sequences assigned
253 (84.1%) exact matches, in which:
247 unique CDR3
6 unique J



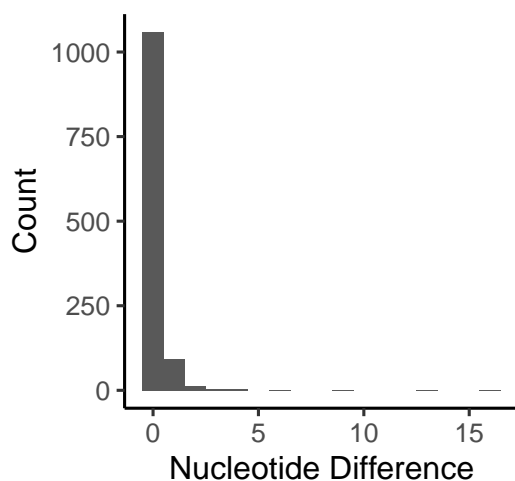
IGHV3–7*03

532 sequences assigned
440 (82.7%) exact matches, in which:
415 unique CDR3
7 unique J



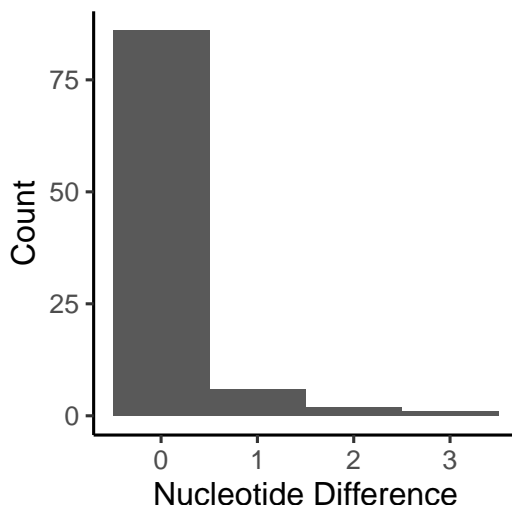
IGHV1–69*04

1177 sequences assigned
1059 (90%) exact matches, in which:
992 unique CDR3
7 unique J



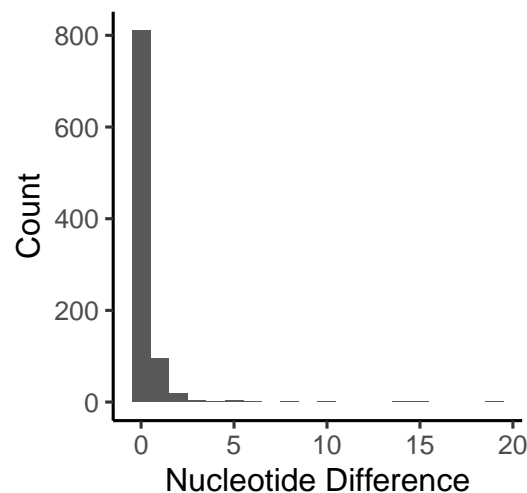
IGHV2–70*01

95 sequences assigned
86 (90.5%) exact matches, in which:
85 unique CDR3
5 unique J



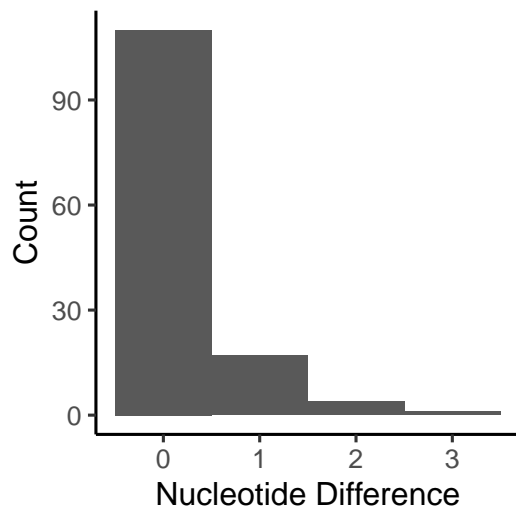
IGHV3–11*06

941 sequences assigned
811 (86.2%) exact matches, in which:
770 unique CDR3
7 unique J



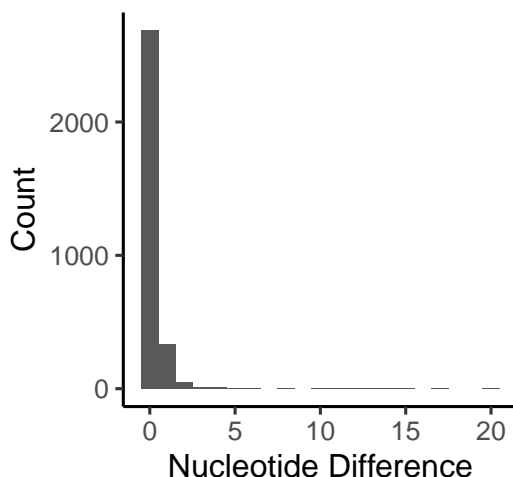
IGHV3-13*05

132 sequences assigned
110 (83.3%) exact matches, in which:
105 unique CDR3
6 unique J



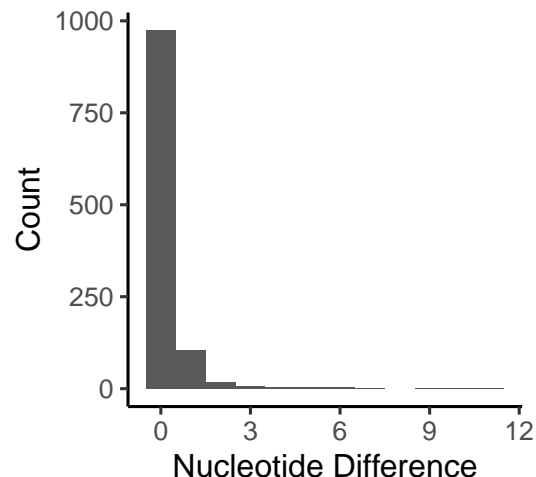
IGHV3-23*01

3114 sequences assigned
2687 (86.3%) exact matches, in which:
2490 unique CDR3
7 unique J



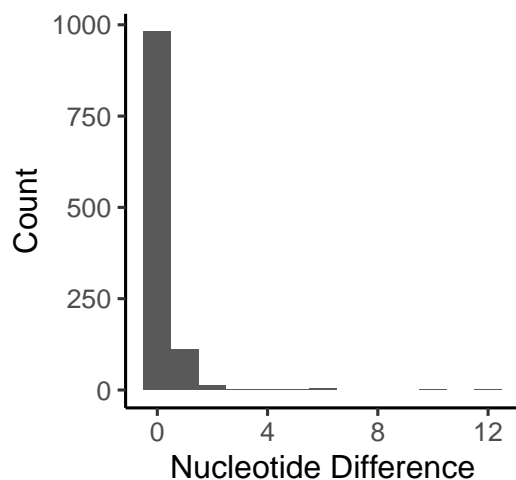
IGHV3-30*18

1121 sequences assigned
974 (86.9%) exact matches, in which:
915 unique CDR3
7 unique J



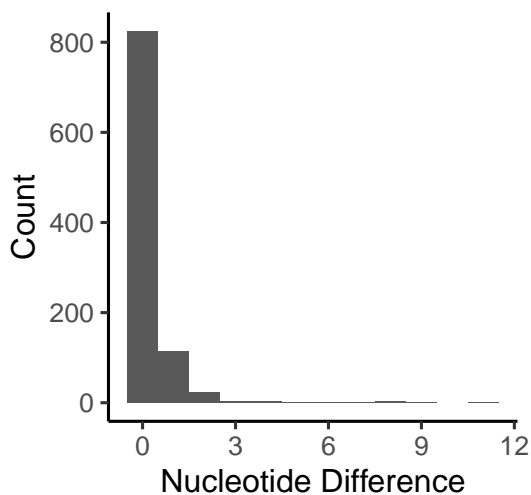
IGHV3-15*01

1116 sequences assigned
981 (87.9%) exact matches, in which:
936 unique CDR3
7 unique J



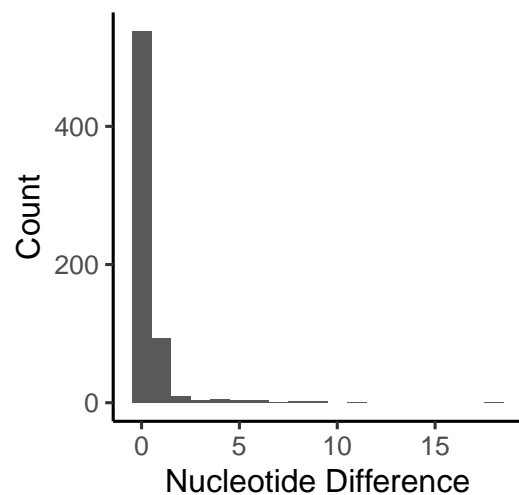
IGHV3-30-3*01

983 sequences assigned
825 (83.9%) exact matches, in which:
770 unique CDR3
7 unique J



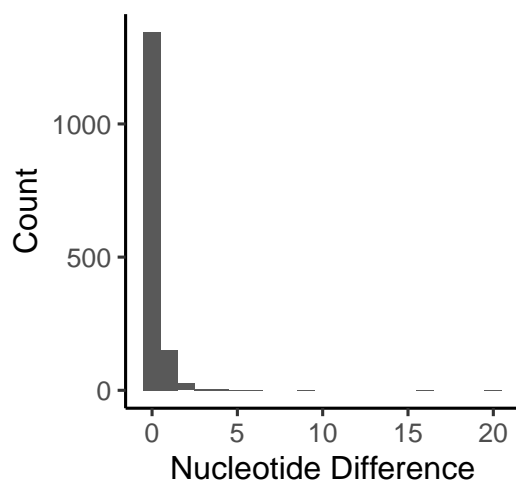
IGHV3-33*01

664 sequences assigned
538 (81%) exact matches, in which:
491 unique CDR3
6 unique J



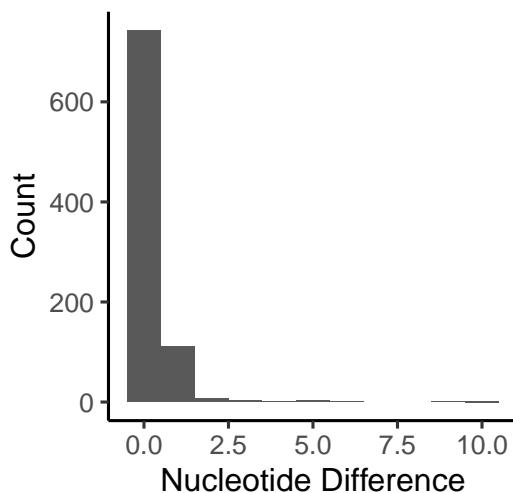
IGHV3-21*01

1538 sequences assigned
1345 (87.5%) exact matches, in which:
1263 unique CDR3
7 unique J



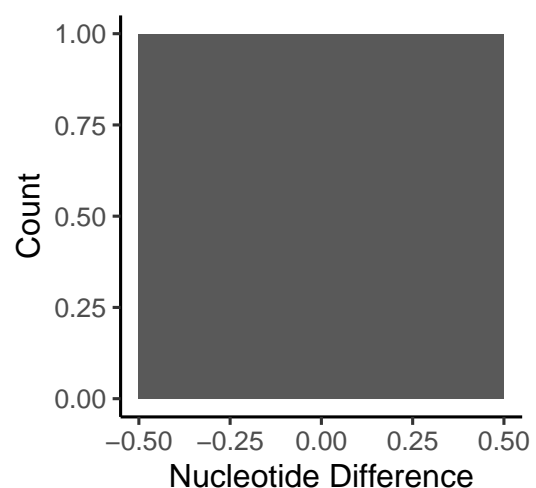
IGHV3-30*04

875 sequences assigned
743 (84.9%) exact matches, in which:
705 unique CDR3
6 unique J



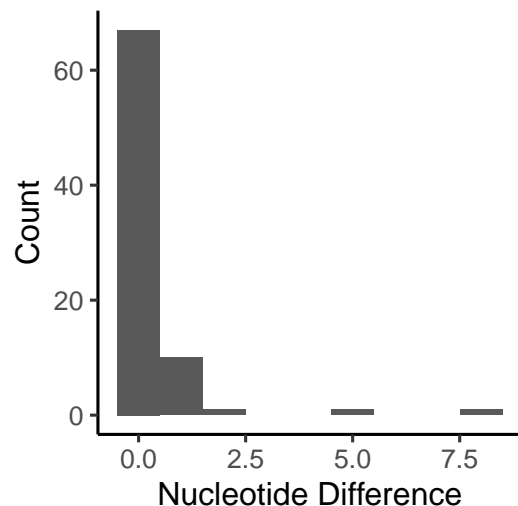
IGHV3-35*01

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



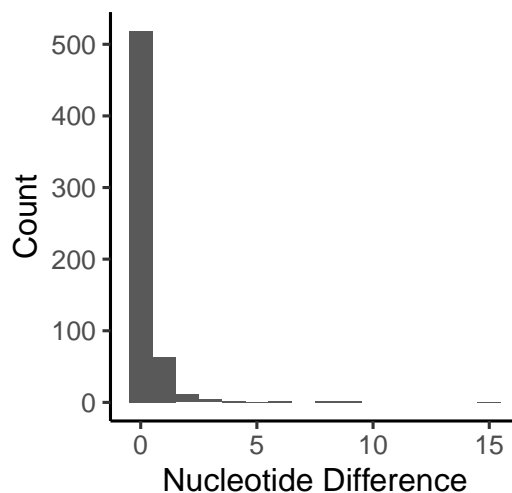
IGHV3-43*01

80 sequences assigned
67 (83.8%) exact matches, in which:
65 unique CDR3
5 unique J



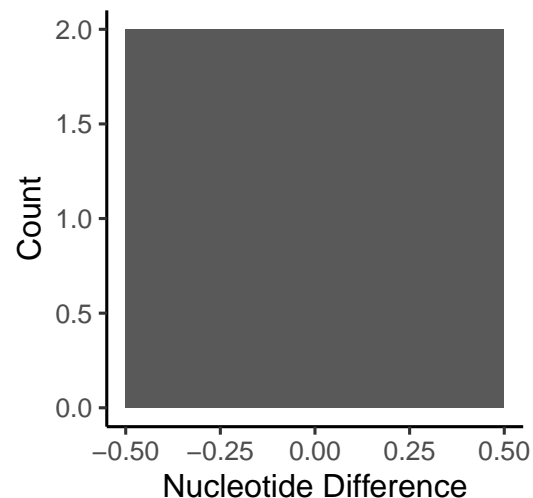
IGHV3-48*03

607 sequences assigned
519 (85.5%) exact matches, in which:
502 unique CDR3
7 unique J



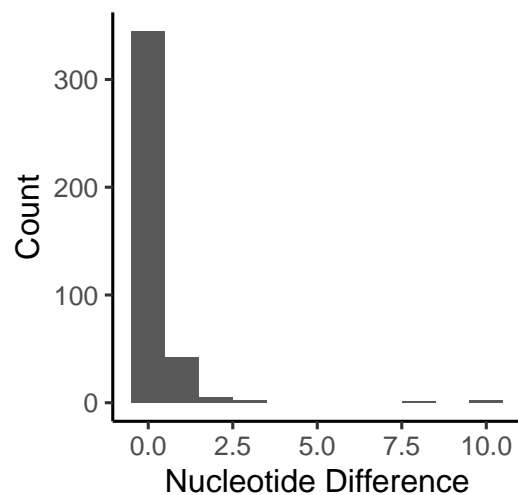
IGHV3-52*01

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



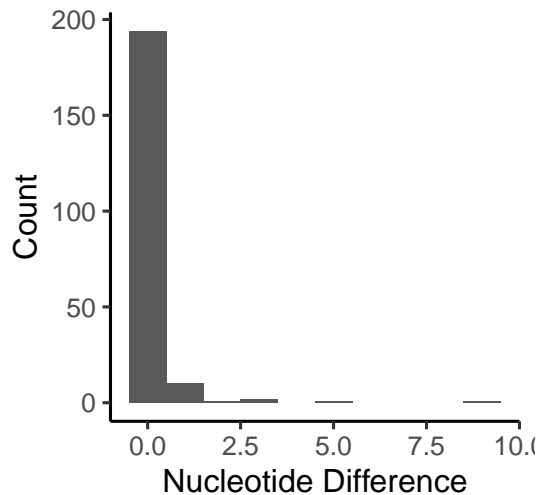
IGHV3-43*02

397 sequences assigned
345 (86.9%) exact matches, in which:
333 unique CDR3
7 unique J



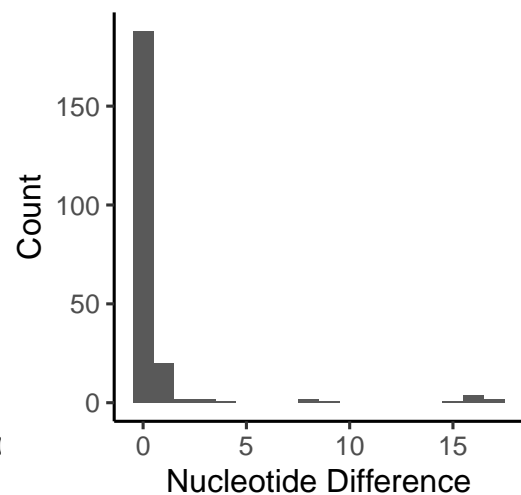
IGHV3-49*04

209 sequences assigned
194 (92.8%) exact matches, in which:
186 unique CDR3
6 unique J



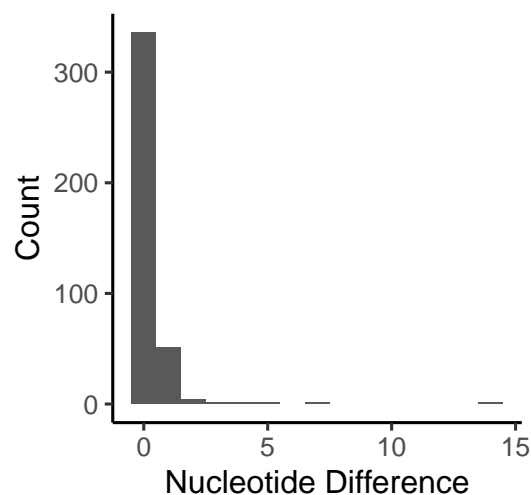
IGHV3-53*01

223 sequences assigned
188 (84.3%) exact matches, in which:
175 unique CDR3
5 unique J



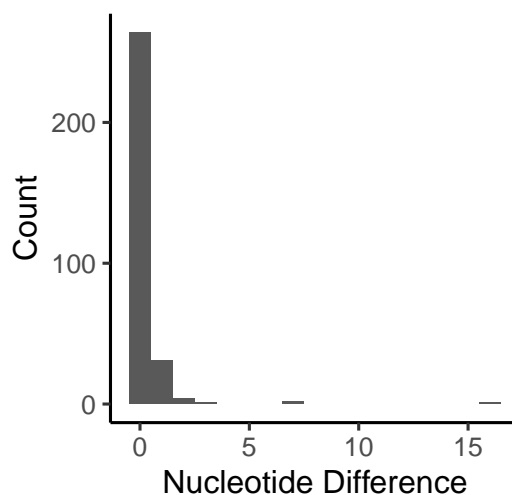
IGHV3-48*02

397 sequences assigned
336 (84.6%) exact matches, in which:
319 unique CDR3
7 unique J



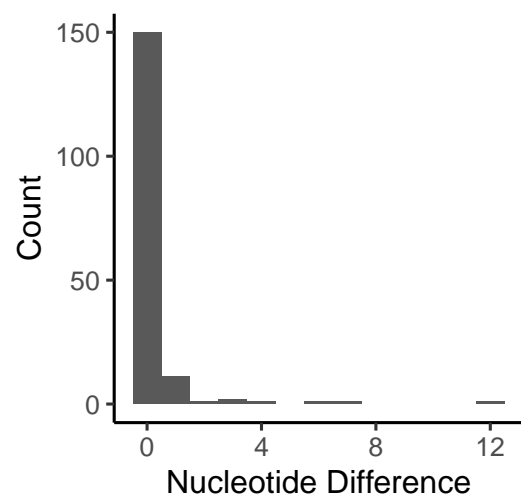
IGHV3-49*05

303 sequences assigned
264 (87.1%) exact matches, in which:
250 unique CDR3
7 unique J



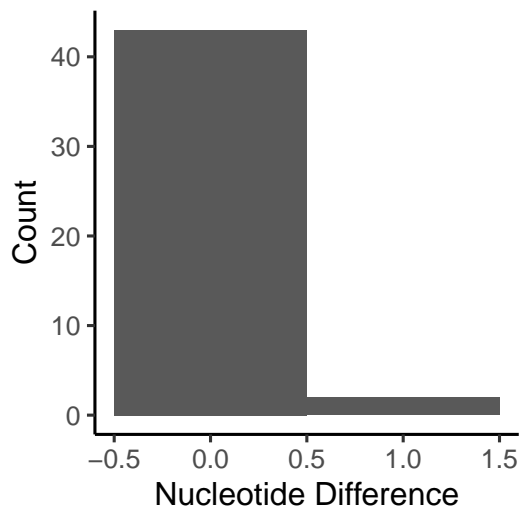
IGHV3-53*04

168 sequences assigned
150 (89.3%) exact matches, in which:
143 unique CDR3
7 unique J



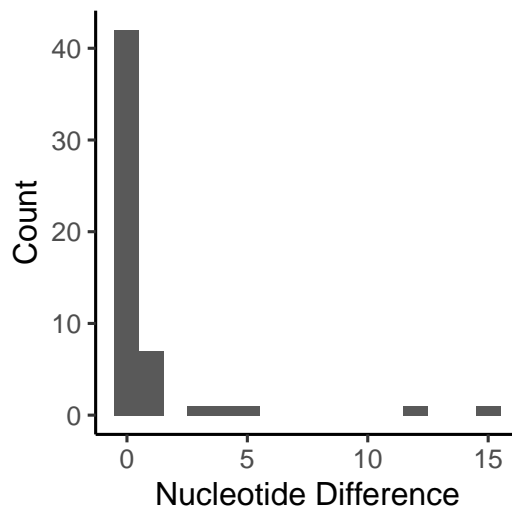
IGHV3-64*01

45 sequences assigned
43 (95.6%) exact matches, in which:
42 unique CDR3
5 unique J



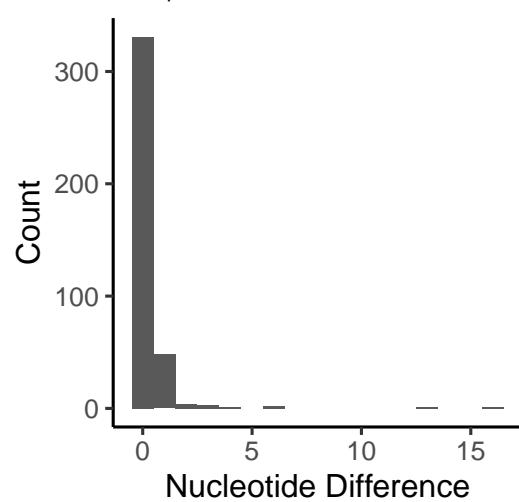
IGHV3-72*01

55 sequences assigned
42 (76.4%) exact matches, in which:
38 unique CDR3
5 unique J



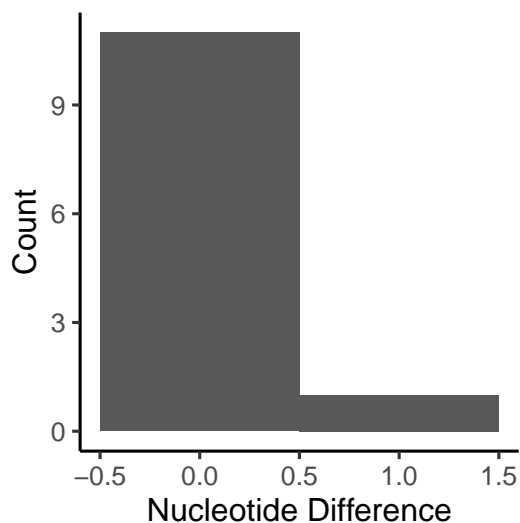
IGHV3-64D*06

391 sequences assigned
331 (84.7%) exact matches, in which:
309 unique CDR3
7 unique J



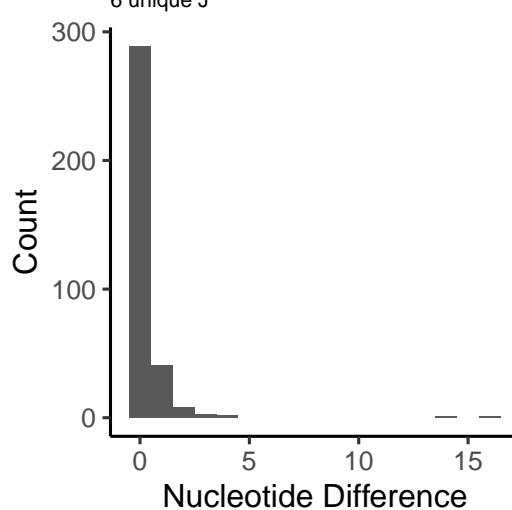
IGHV3-64*02

12 sequences assigned
11 (91.7%) exact matches, in which:
9 unique CDR3
3 unique J



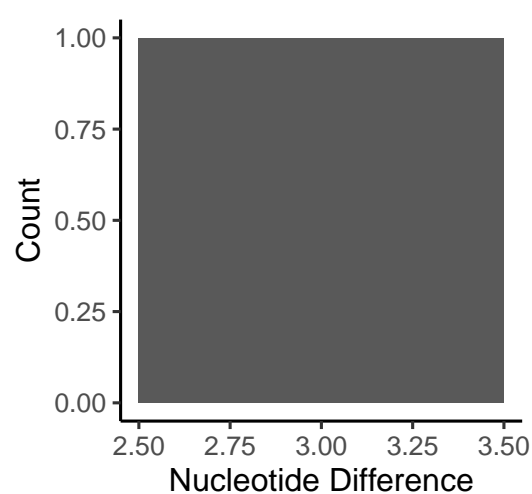
IGHV3-73*02

345 sequences assigned
289 (83.8%) exact matches, in which:
270 unique CDR3
6 unique J



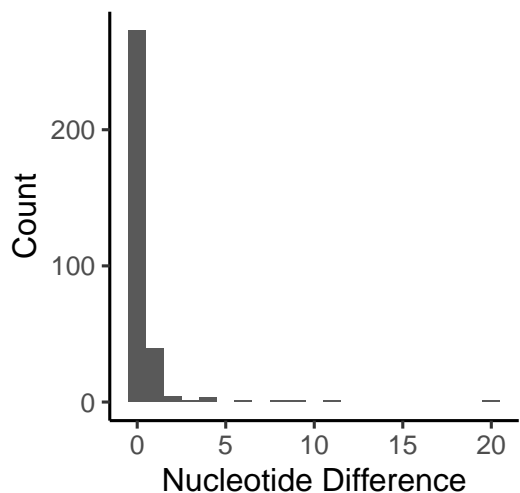
IGHV3-NL1*01

1 sequences assigned
No exact matches.



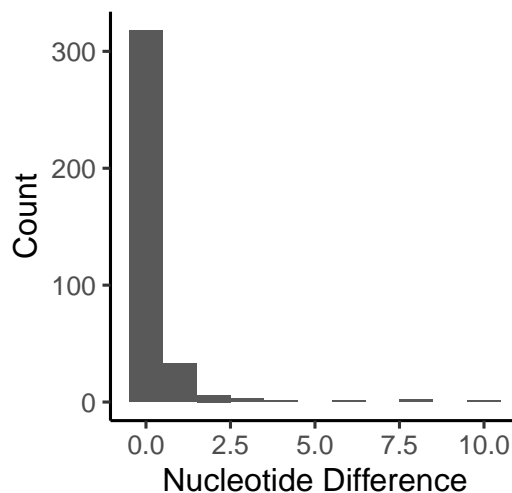
IGHV3-66*01

325 sequences assigned
273 (84%) exact matches, in which:
256 unique CDR3
6 unique J



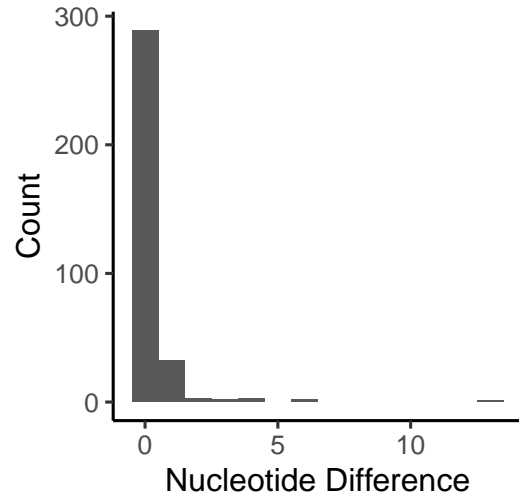
IGHV3-74*01

365 sequences assigned
318 (87.1%) exact matches, in which:
305 unique CDR3
7 unique J



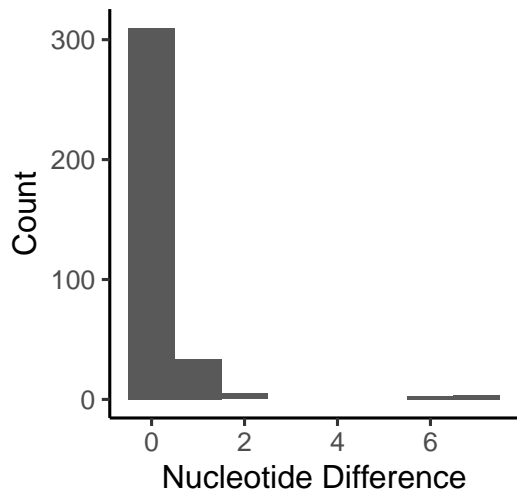
IGHV4-4*02

332 sequences assigned
289 (87%) exact matches, in which:
285 unique CDR3
6 unique J



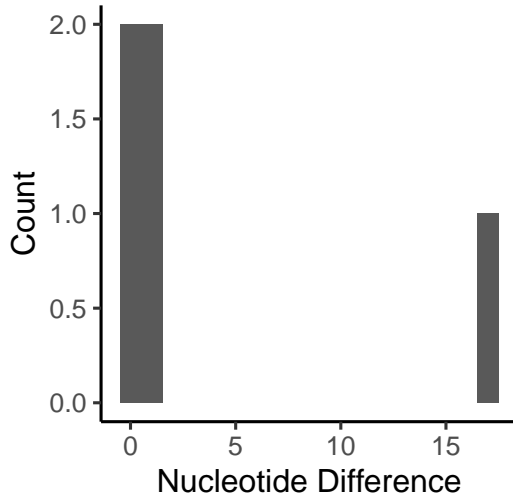
IGHV4-4*07

356 sequences assigned
310 (87.1%) exact matches, in which:
300 unique CDR3
6 unique J



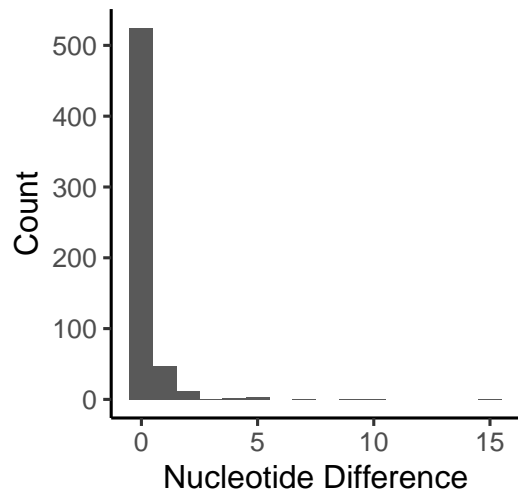
IGHV4-28*07

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



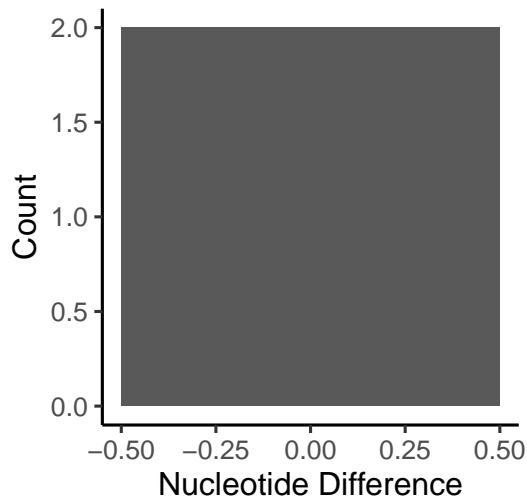
IGHV4-31*03

594 sequences assigned
525 (88.4%) exact matches, in which:
486 unique CDR3
6 unique J



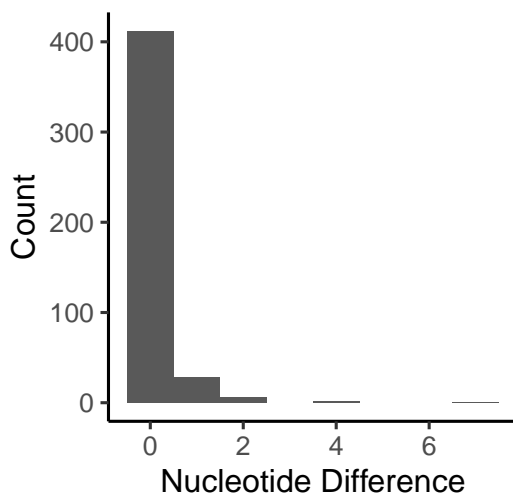
IGHV4-28*01

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



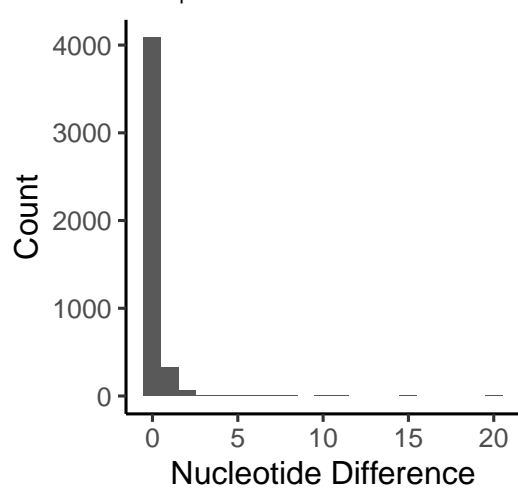
IGHV4-30-2*01

449 sequences assigned
412 (91.8%) exact matches, in which:
390 unique CDR3
7 unique J



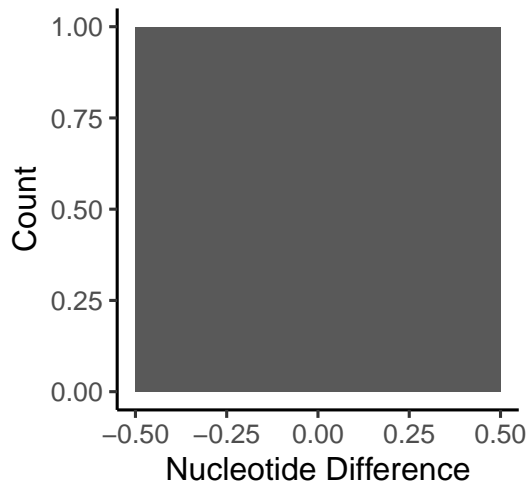
IGHV4-34*01

4505 sequences assigned
4084 (90.7%) exact matches, in which:
3736 unique CDR3
7 unique J



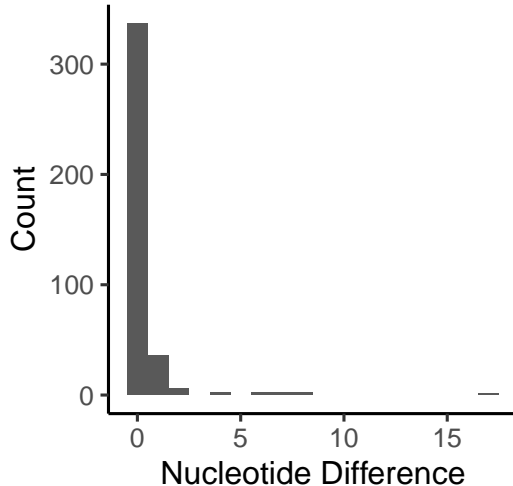
IGHV4-28*03

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



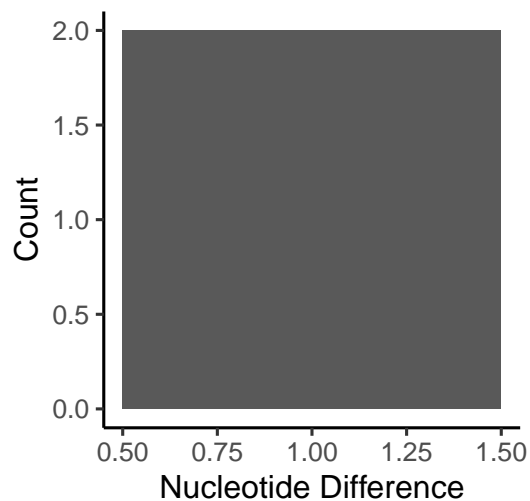
IGHV4-30-4*01_A70G_/_

388 sequences assigned
337 (86.9%) exact matches, in which:
324 unique CDR3
6 unique J



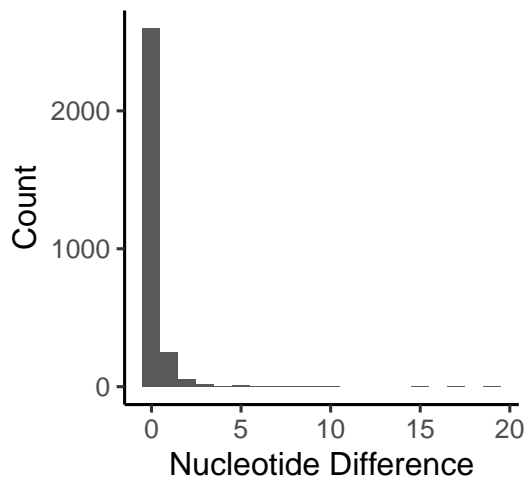
IGHV4-38-2*02

2 sequences assigned
No exact matches.



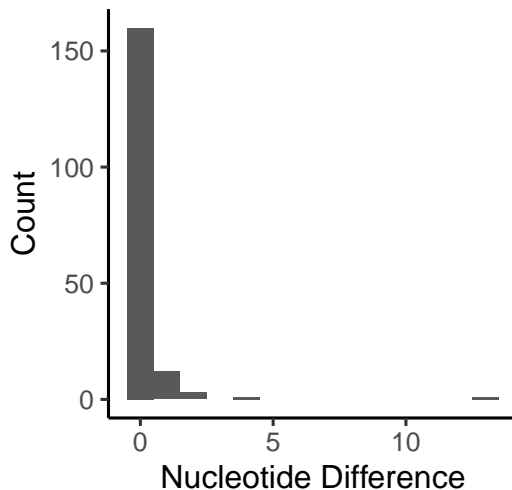
IGHV4-39*01

2969 sequences assigned
2598 (87.5%) exact matches, in which:
2414 unique CDR3
7 unique J



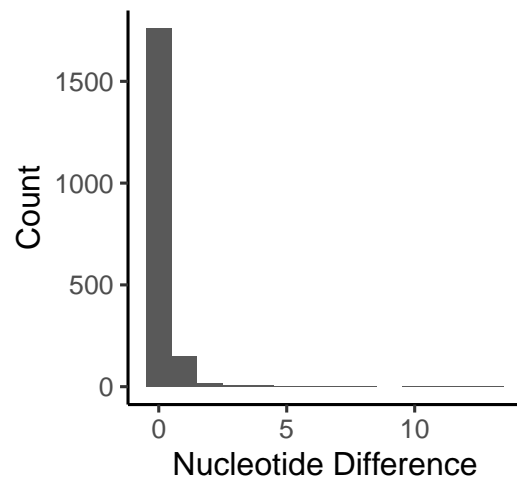
IGHV4-61*01

177 sequences assigned
160 (90.4%) exact matches, in which:
152 unique CDR3
5 unique J



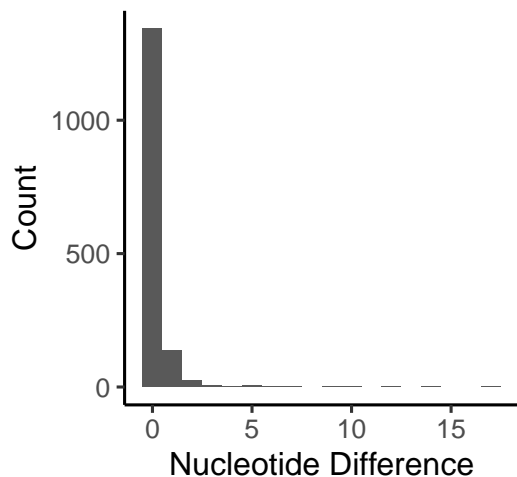
IGHV5-51*01

1968 sequences assigned
1760 (89.4%) exact matches, in which:
1648 unique CDR3
7 unique J



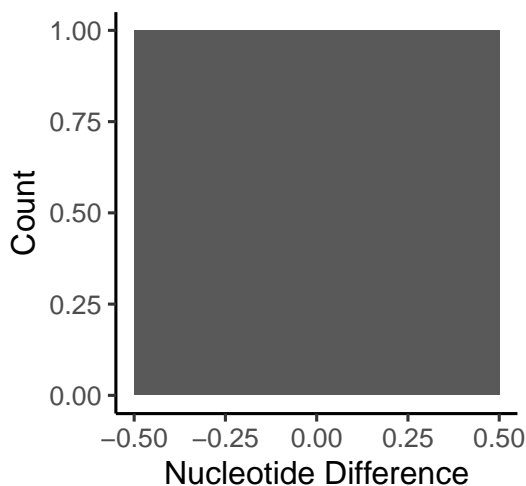
IGHV4-59*01

1527 sequences assigned
1343 (88%) exact matches, in which:
1306 unique CDR3
7 unique J



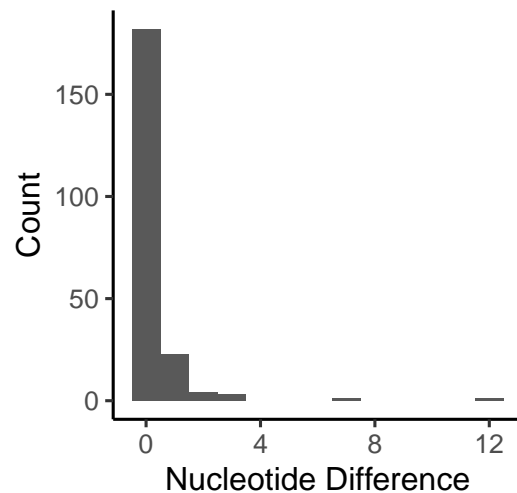
IGHV1/OR15-2*01

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



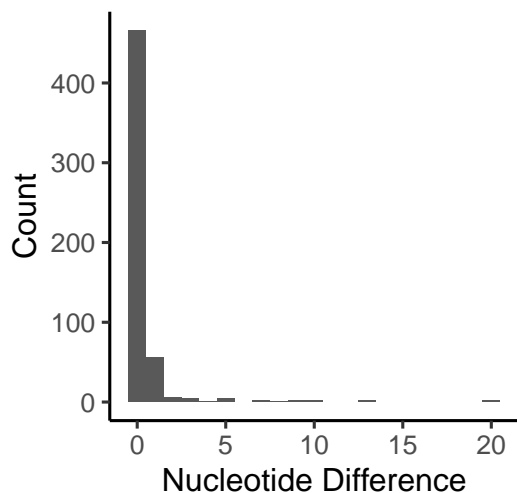
IGHV6-1*01

214 sequences assigned
182 (85%) exact matches, in which:
175 unique CDR3
7 unique J



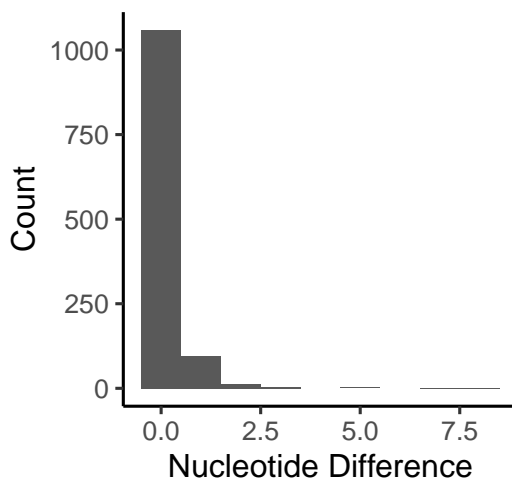
IGHV4-59*08

550 sequences assigned
466 (84.7%) exact matches, in which:
448 unique CDR3
7 unique J



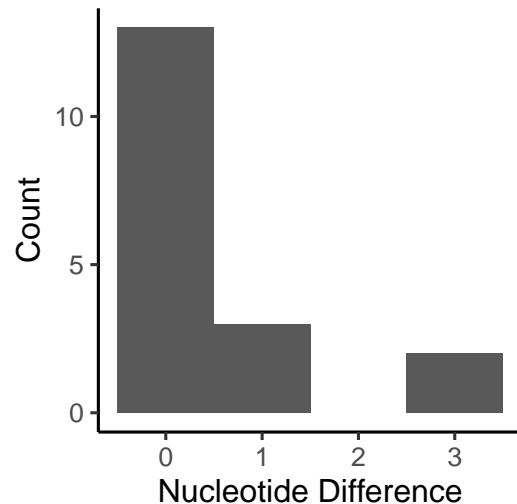
IGHV5-10-1*03

1175 sequences assigned
1059 (90.1%) exact matches, in which:
1000 unique CDR3
7 unique J

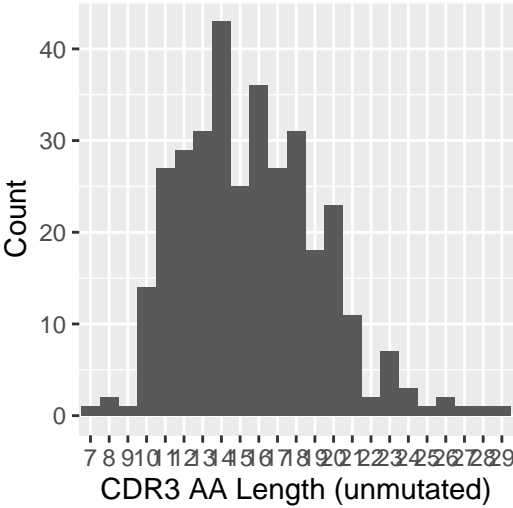


IGHV7-4-1*01

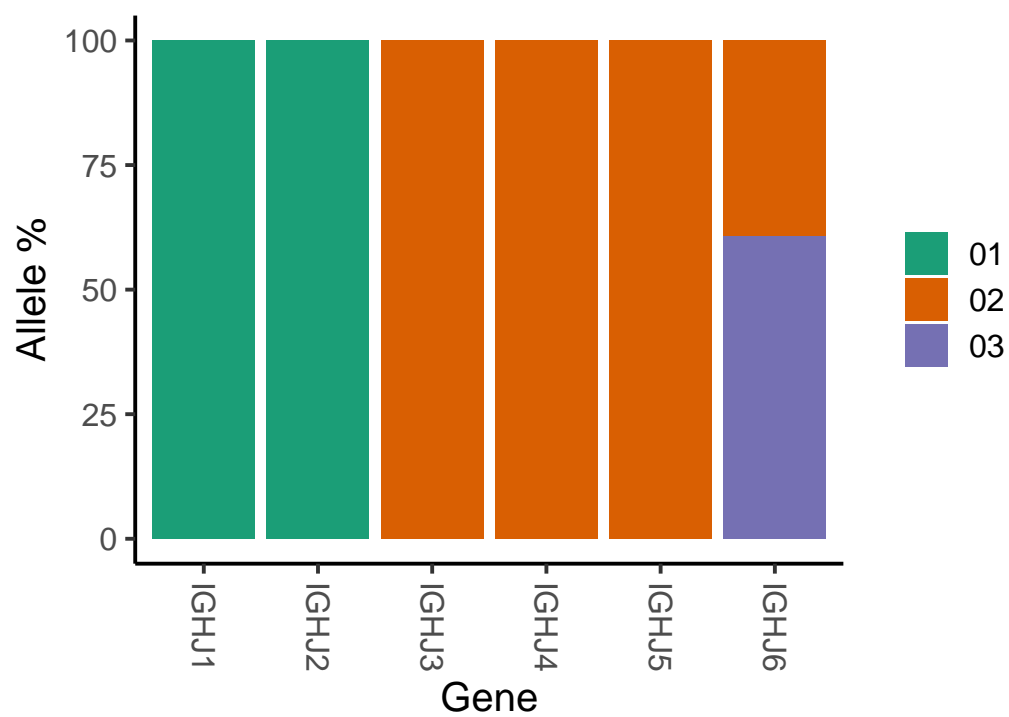
18 sequences assigned
13 (72.2%) exact matches, in which:
13 unique CDR3
4 unique J



IGHV4-30-4*01_A70G_A107G



Allele Usage



Sequence Count by IGHJ6 allele usage

