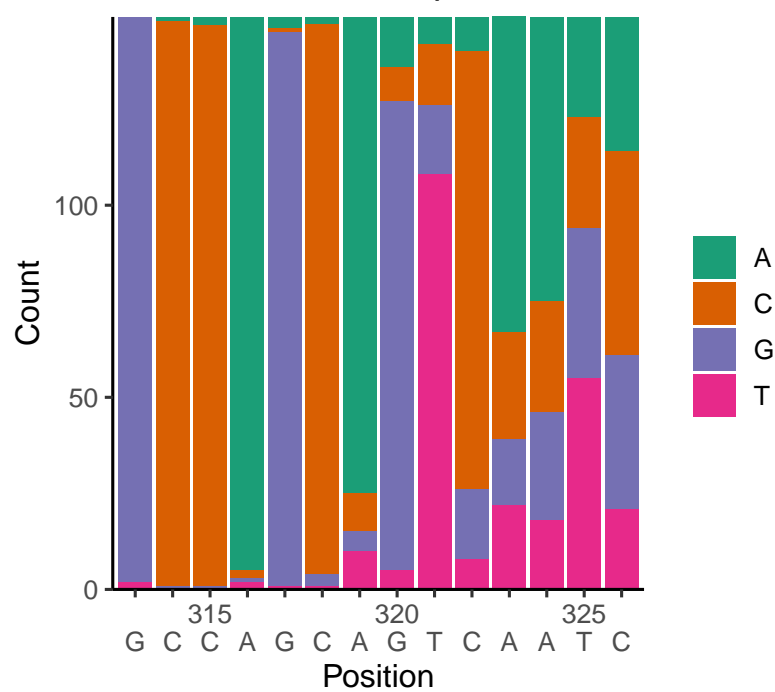
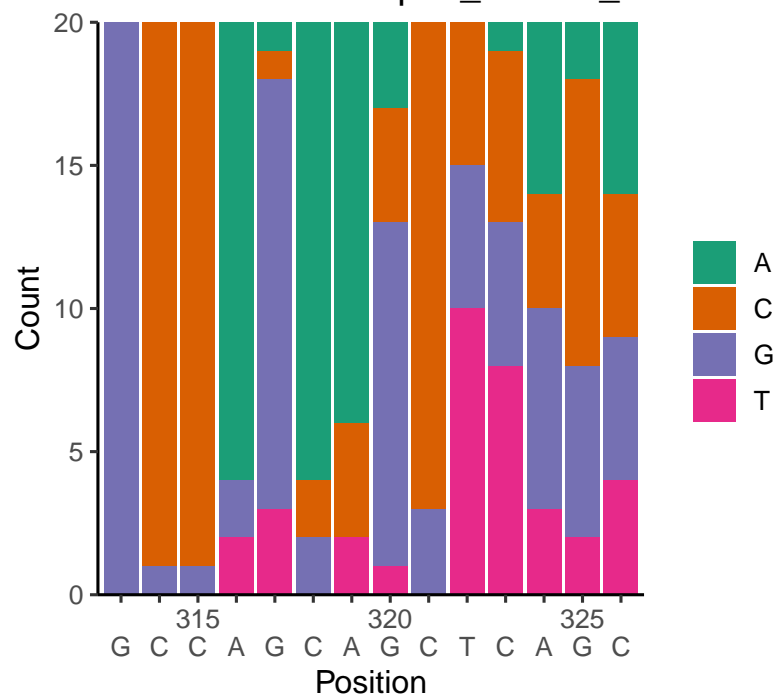


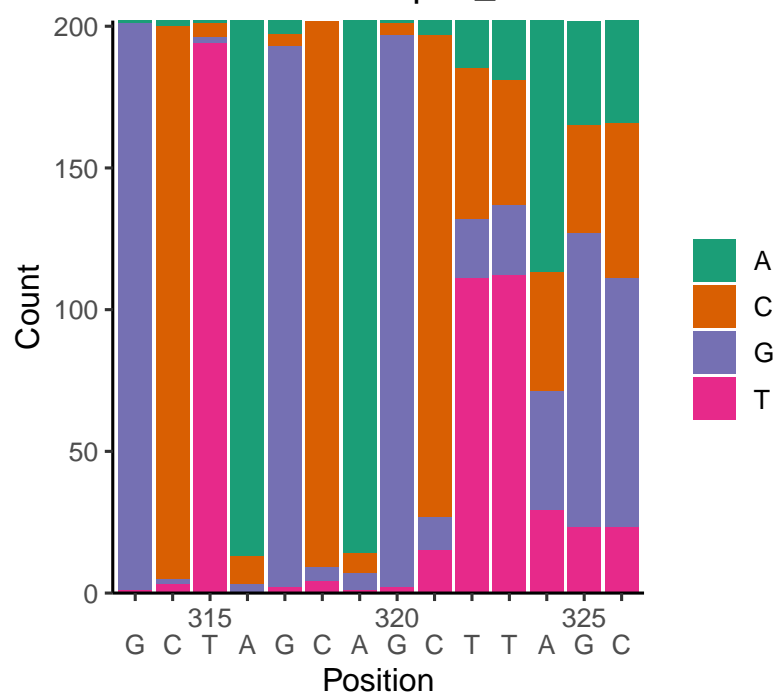
Gene TRBV23-1*ap01_T304C



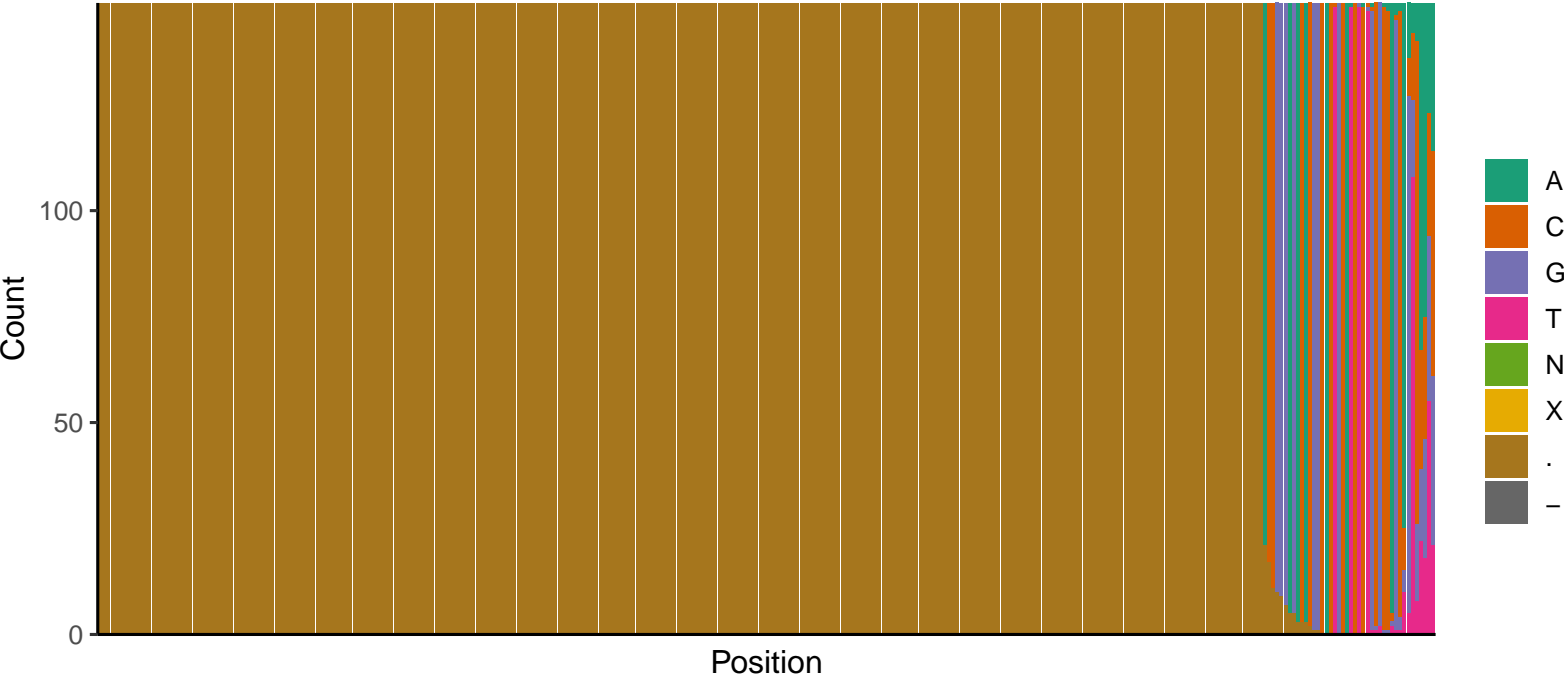
Gene TRBV7-1*ap01_G291C_T296C



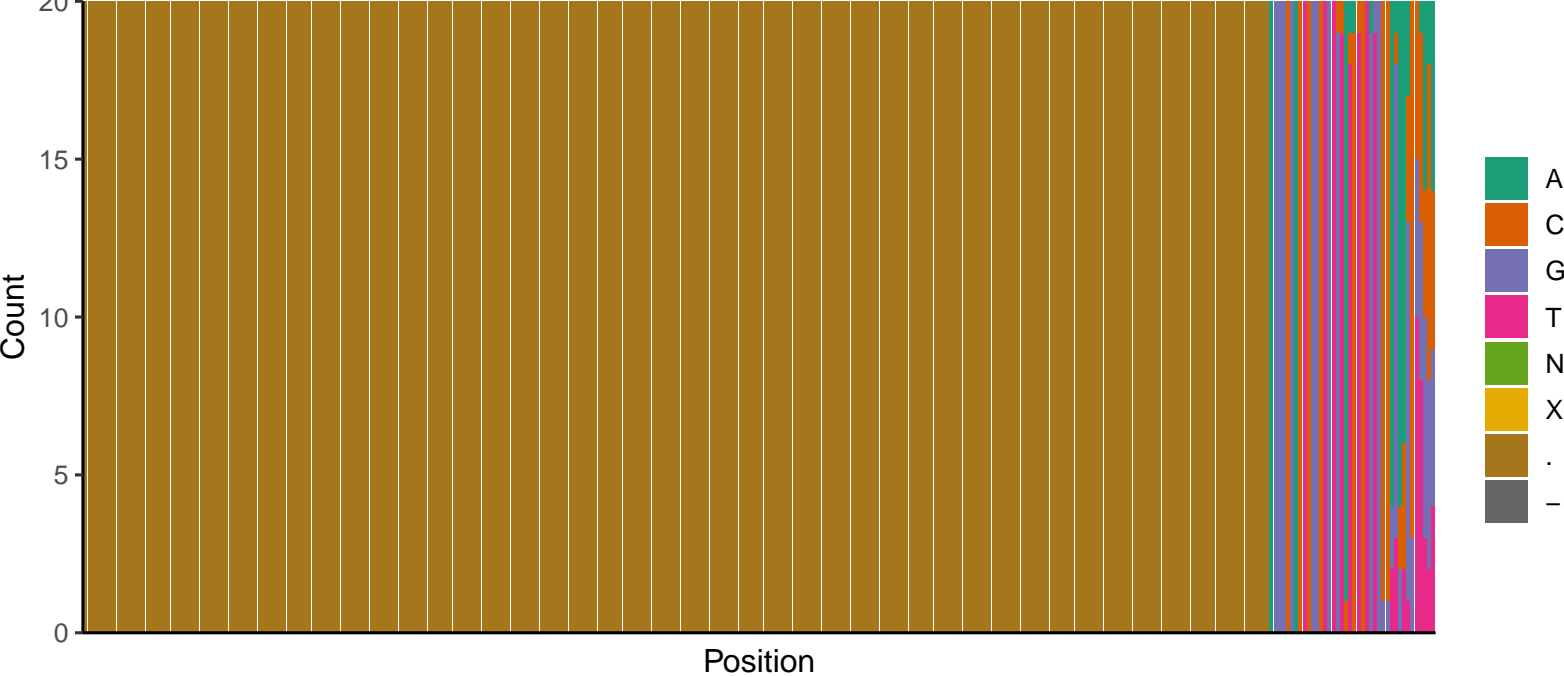
Gene TRBV7-7*ap01_C315T



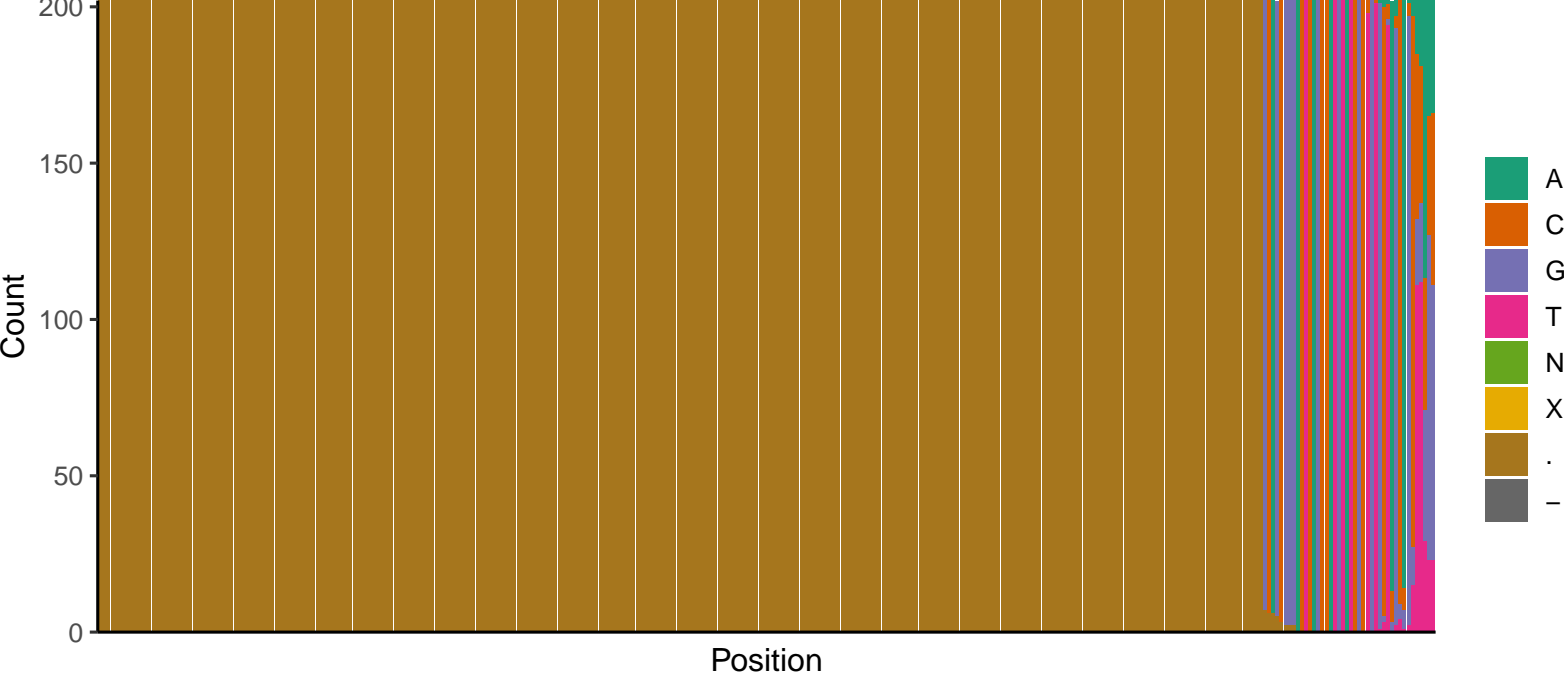
Gene TRBV23-1*ap01_T304C



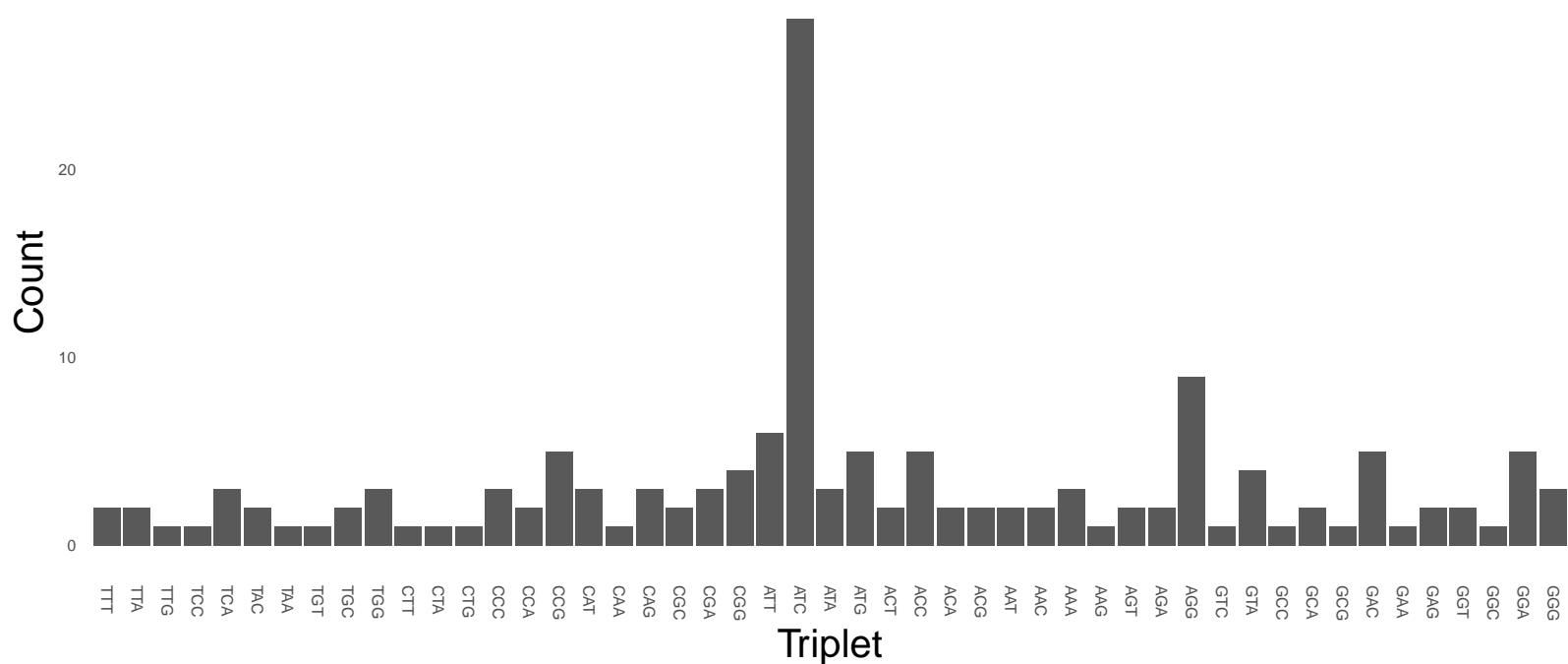
Gene TRBV7-1*ap01_G291C_T296C



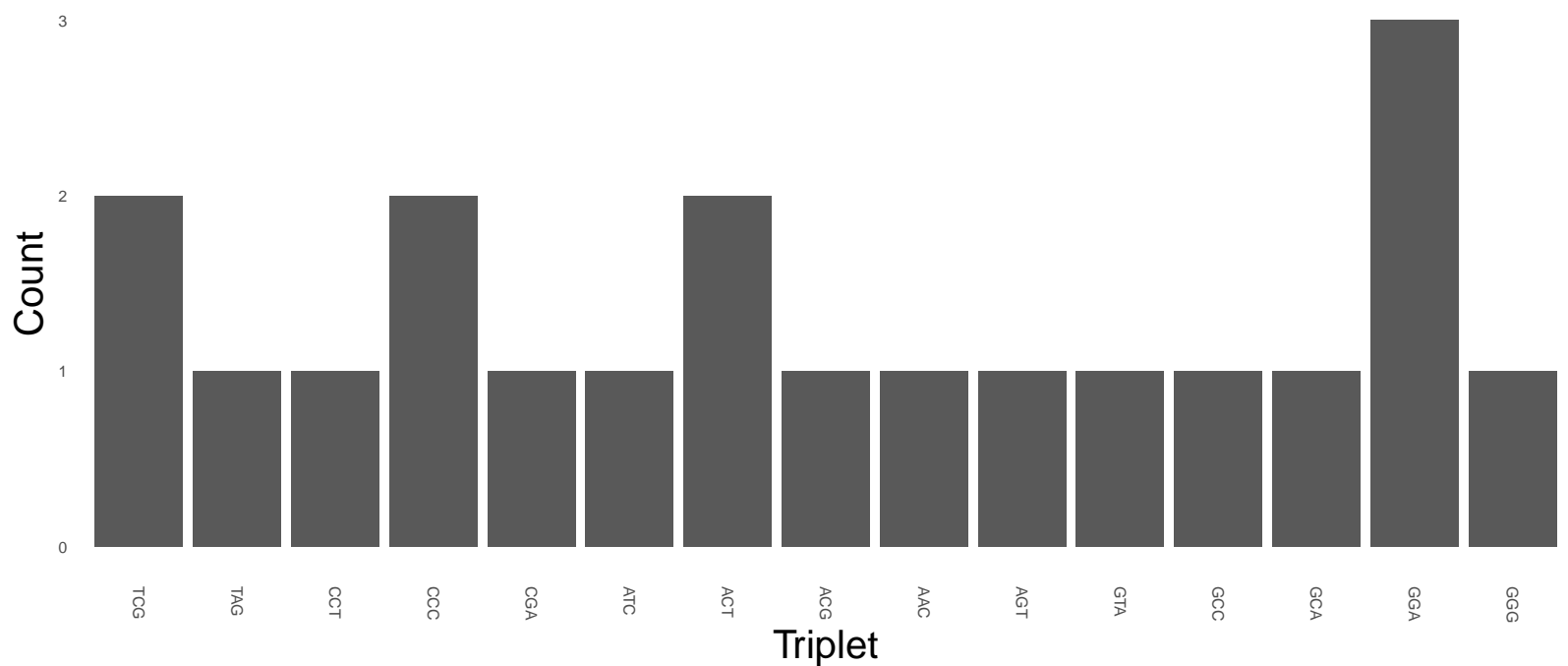
Gene TRBV7-7*ap01_C315T



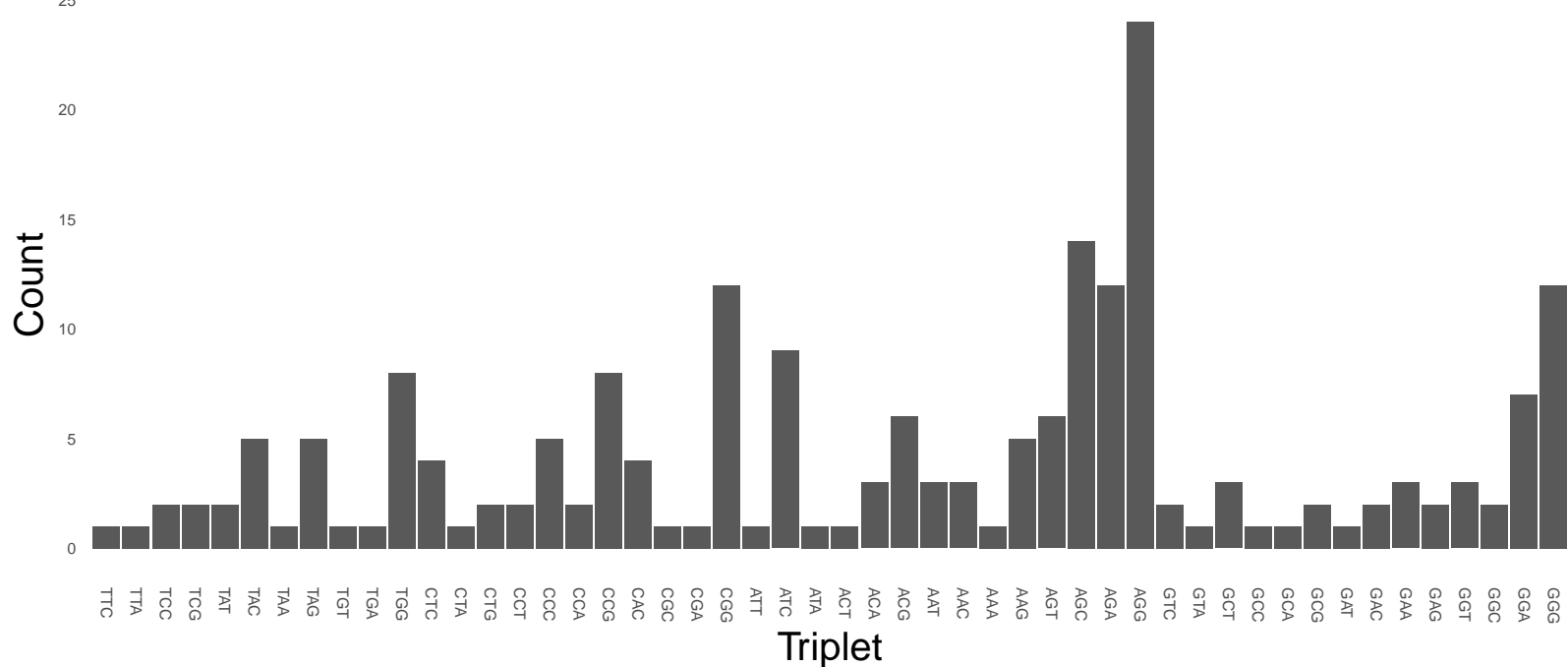
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet

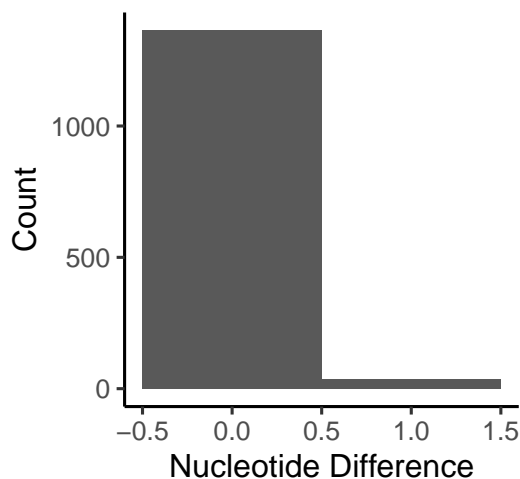


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



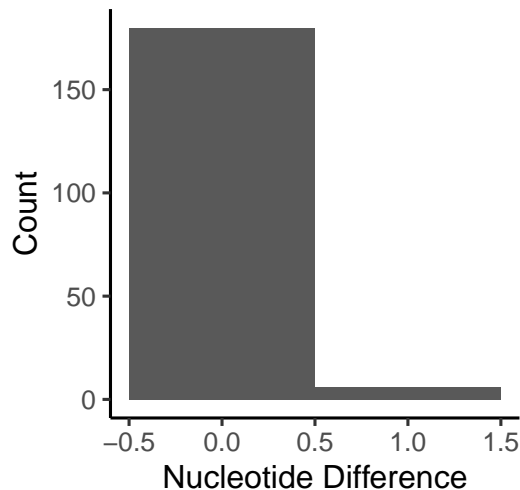
TRBV20–1*ap01

1399 sequences assigned
1364 (97.5%) exact matches, in which:
1307 unique CDR3
13 unique J



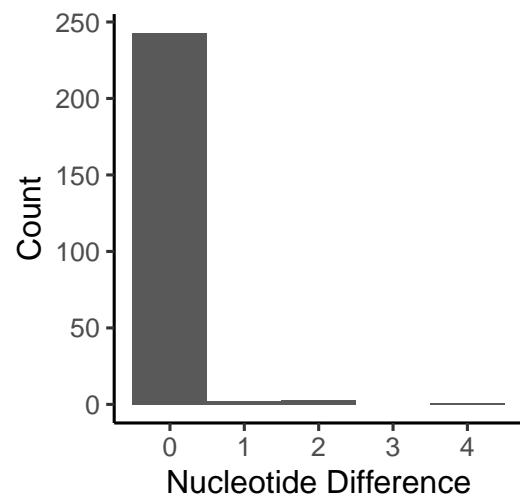
TRBV10–2*ap01

186 sequences assigned
180 (96.8%) exact matches, in which:
175 unique CDR3
13 unique J



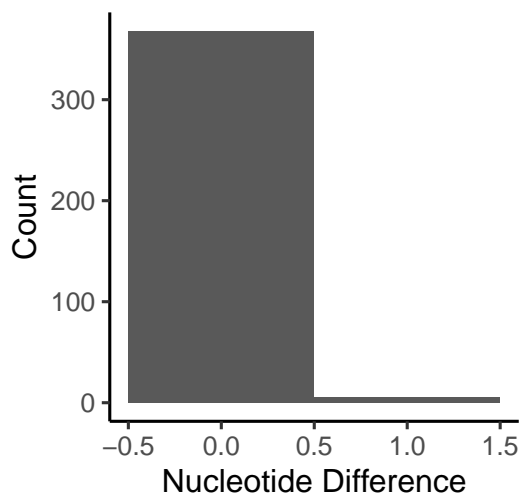
TRBV13*ap01

249 sequences assigned
243 (97.6%) exact matches, in which:
223 unique CDR3
13 unique J



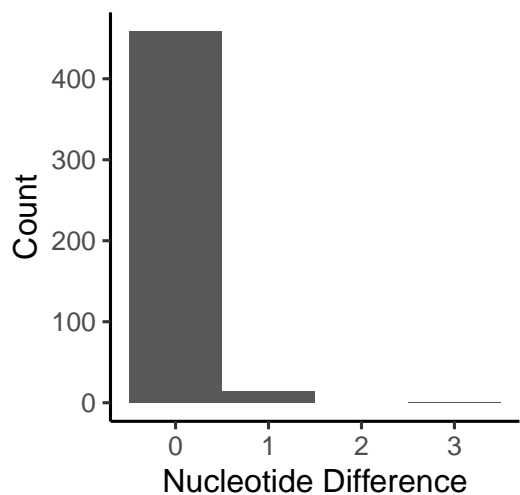
TRBV10–1*ap01

373 sequences assigned
368 (98.7%) exact matches, in which:
349 unique CDR3
13 unique J



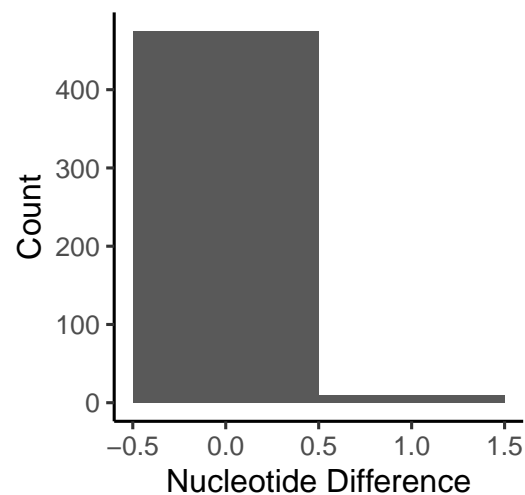
TRBV10–3*ap01

474 sequences assigned
459 (96.8%) exact matches, in which:
436 unique CDR3
13 unique J



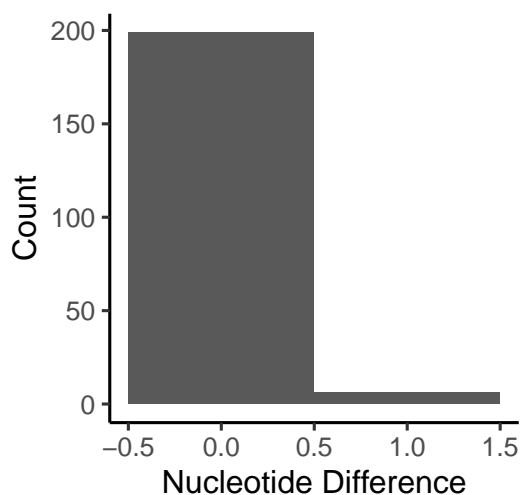
TRBV14*ap01

484 sequences assigned
475 (98.1%) exact matches, in which:
464 unique CDR3
13 unique J



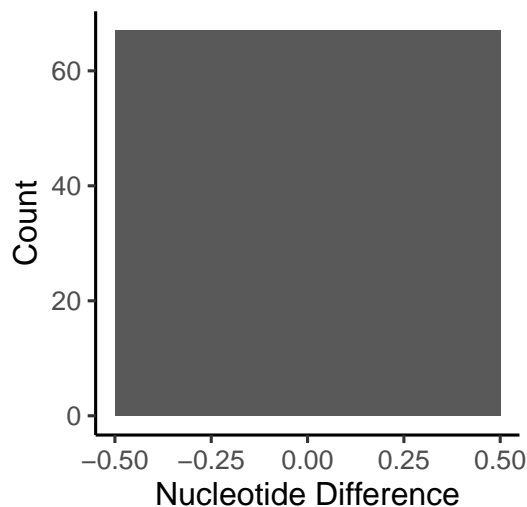
TRBV20–1*ap02

205 sequences assigned
199 (97.1%) exact matches, in which:
195 unique CDR3
13 unique J



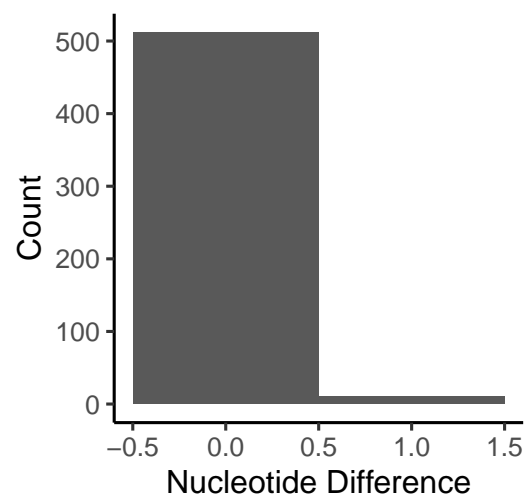
TRBV1*ap01

67 sequences assigned
67 (100%) exact matches, in which:
65 unique CDR3
11 unique J



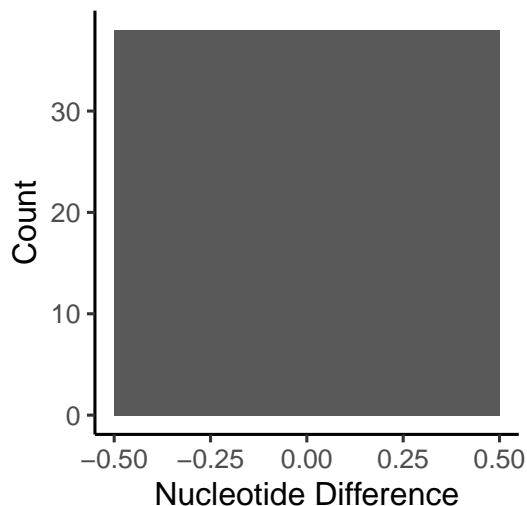
TRBV15*ap02

522 sequences assigned
512 (98.1%) exact matches, in which:
484 unique CDR3
13 unique J



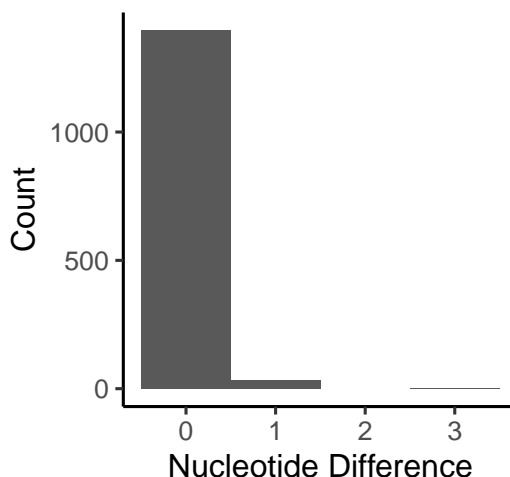
TRBV16*ap01

38 sequences assigned
38 (100%) exact matches, in which:
35 unique CDR3
12 unique J



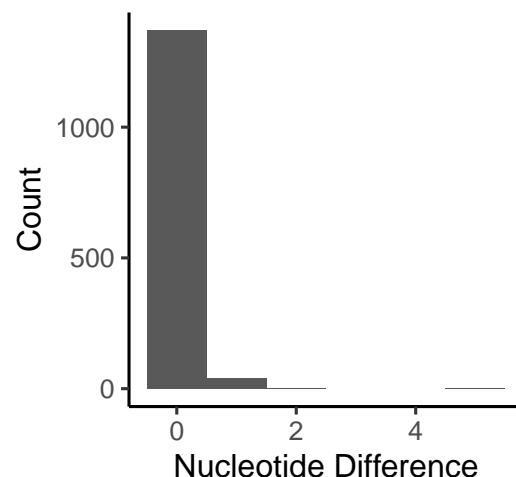
TRBV2*ap01

1430 sequences assigned
1396 (97.6%) exact matches, in which:
1332 unique CDR3
13 unique J



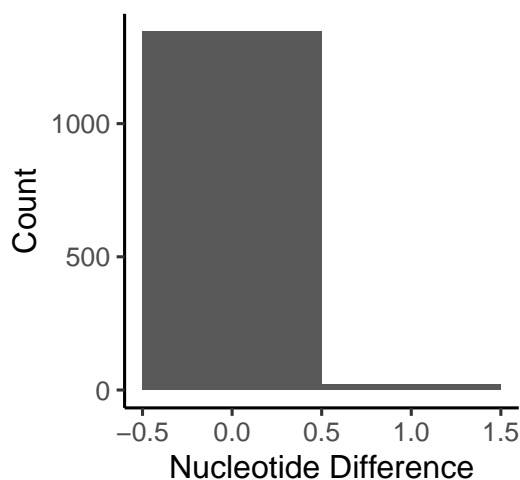
TRBV30*ap01

1414 sequences assigned
1370 (96.9%) exact matches, in which:
1319 unique CDR3
13 unique J



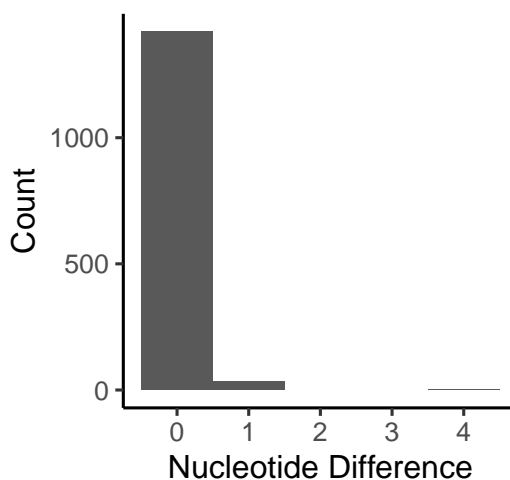
TRBV18*ap01

1365 sequences assigned
1345 (98.5%) exact matches, in which:
1290 unique CDR3
13 unique J



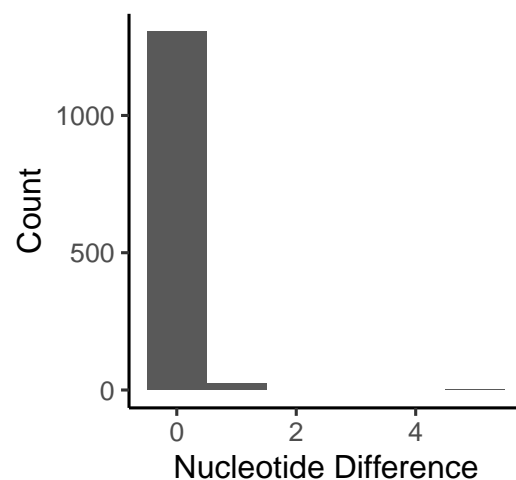
TRBV27*ap01

1456 sequences assigned
1420 (97.5%) exact matches, in which:
1345 unique CDR3
13 unique J



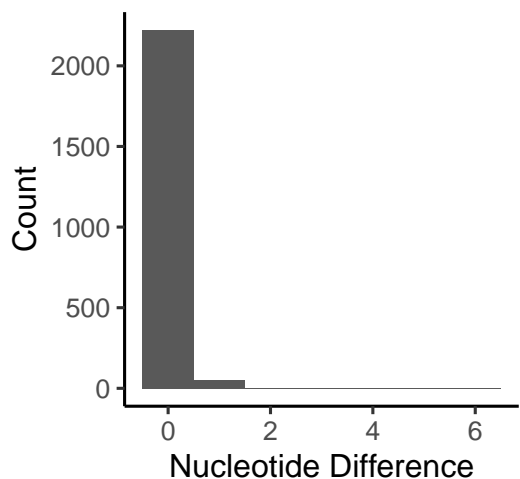
TRBV9*ap01

1329 sequences assigned
1305 (98.2%) exact matches, in which:
1243 unique CDR3
13 unique J



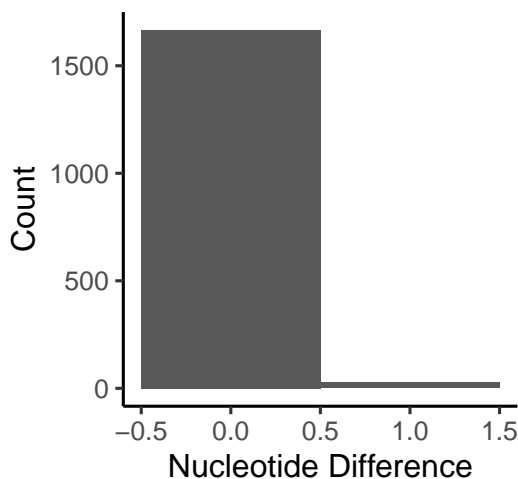
TRBV19*ap01

2283 sequences assigned
2222 (97.3%) exact matches, in which:
2139 unique CDR3
13 unique J



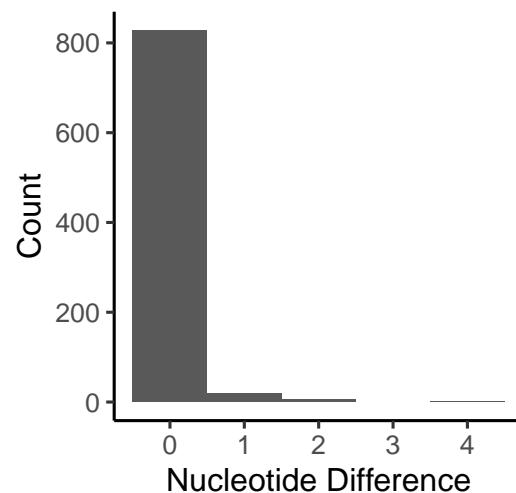
TRBV28*ap01

1693 sequences assigned
1666 (98.4%) exact matches, in which:
1579 unique CDR3
13 unique J



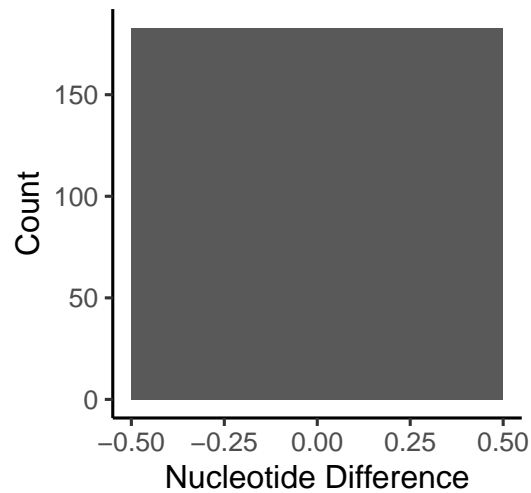
TRBV21-1*ap01

854 sequences assigned
828 (97%) exact matches, in which:
801 unique CDR3
13 unique J



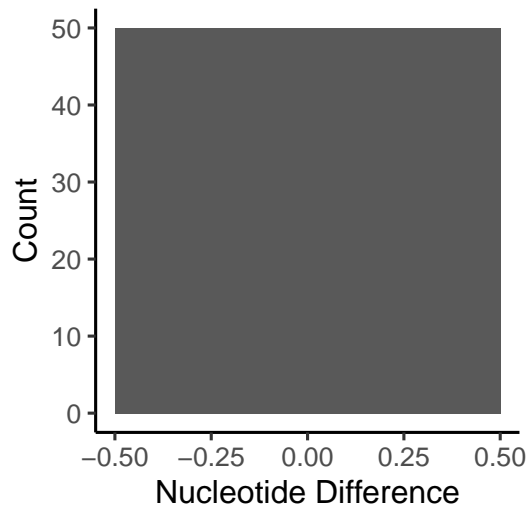
TRBV11-1*ap01

183 sequences assigned
183 (100%) exact matches, in which:
178 unique CDR3
13 unique J



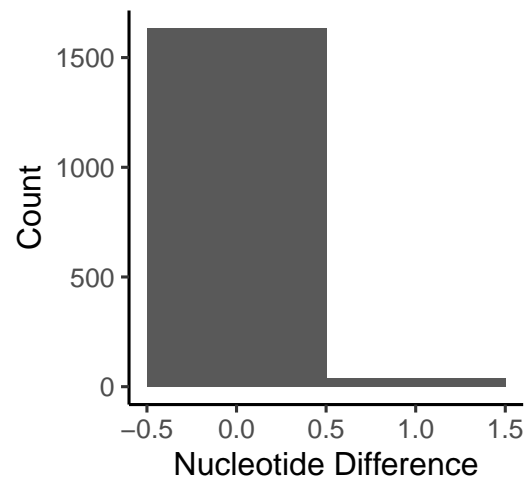
TRBV12-1*ap01

50 sequences assigned
50 (100%) exact matches, in which:
49 unique CDR3
11 unique J



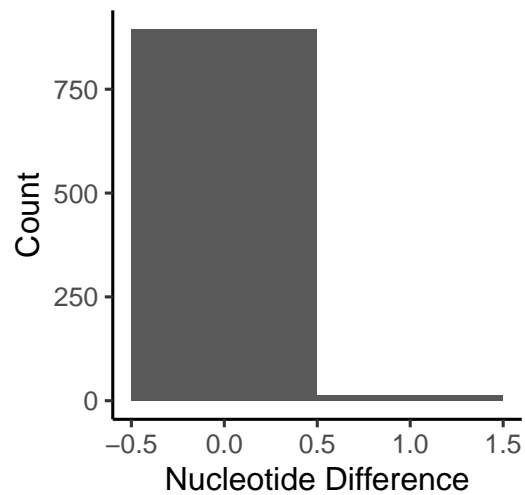
TRBV12-34*ap01

1671 sequences assigned
1633 (97.7%) exact matches, in which:
1556 unique CDR3
13 unique J



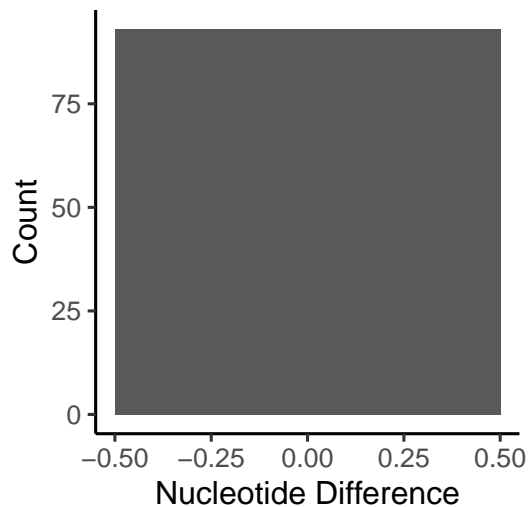
TRBV11-2*ap01

909 sequences assigned
895 (98.5%) exact matches, in which:
858 unique CDR3
13 unique J



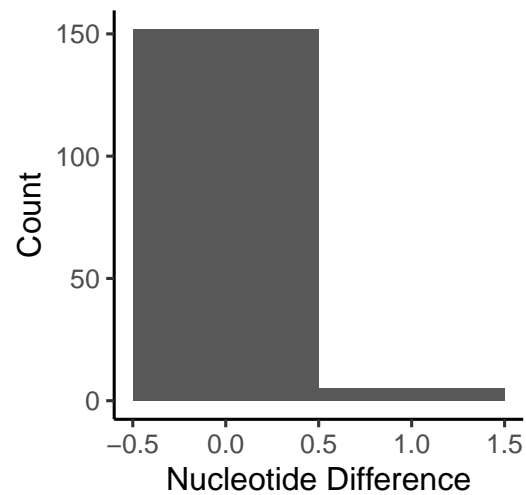
TRBV12-2*ap01

93 sequences assigned
93 (100%) exact matches, in which:
91 unique CDR3
13 unique J



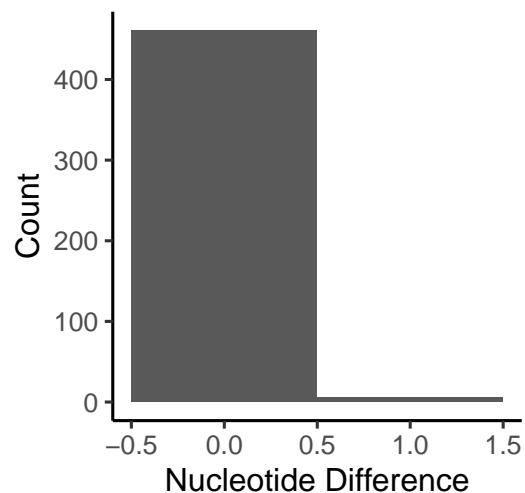
TRBV23-1*ap01

157 sequences assigned
152 (96.8%) exact matches, in which:
148 unique CDR3
13 unique J



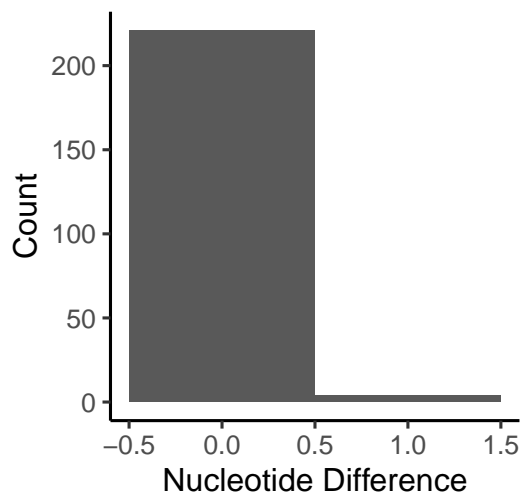
TRBV11-3*ap01

467 sequences assigned
461 (98.7%) exact matches, in which:
444 unique CDR3
13 unique J



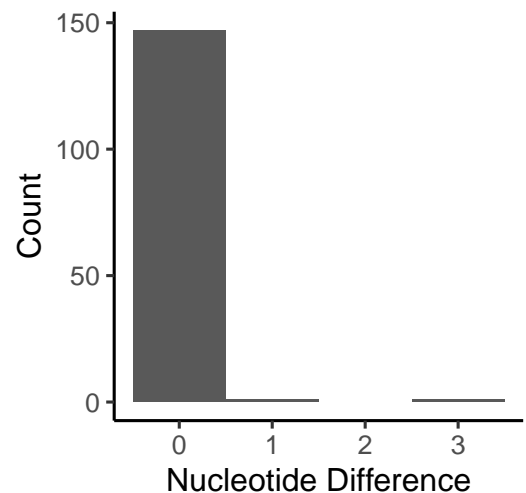
TRBV12-5*ap01

225 sequences assigned
221 (98.2%) exact matches, in which:
212 unique CDR3
13 unique J



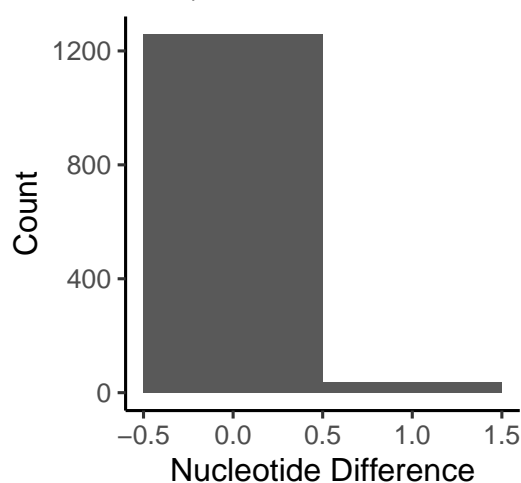
TRBV23-1*ap01_T304C

149 sequences assigned
147 (98.7%) exact matches, in which:
137 unique CDR3
12 unique J



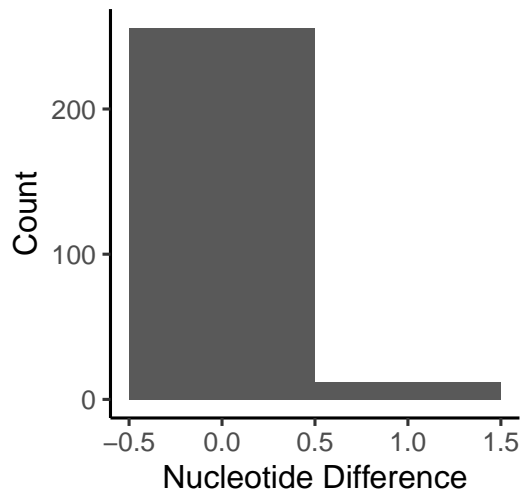
TRBV3-12*ap01

1294 sequences assigned
1258 (97.2%) exact matches, in which:
1202 unique CDR3
13 unique J



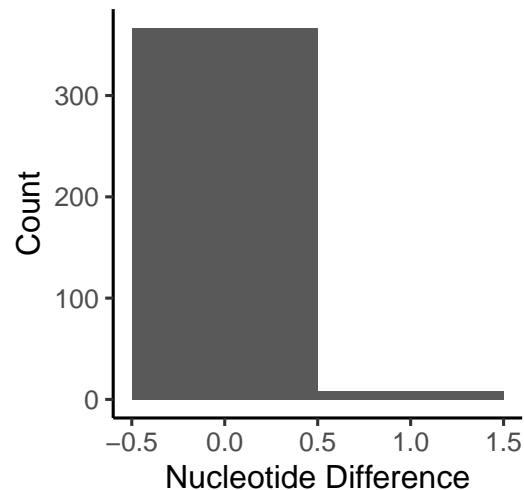
TRBV4-2*ap01

268 sequences assigned
256 (95.5%) exact matches, in which:
249 unique CDR3
13 unique J



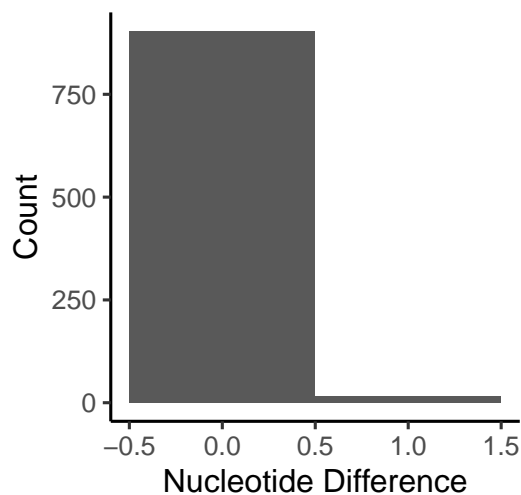
TRBV25-1*ap01

375 sequences assigned
367 (97.9%) exact matches, in which:
354 unique CDR3
13 unique J



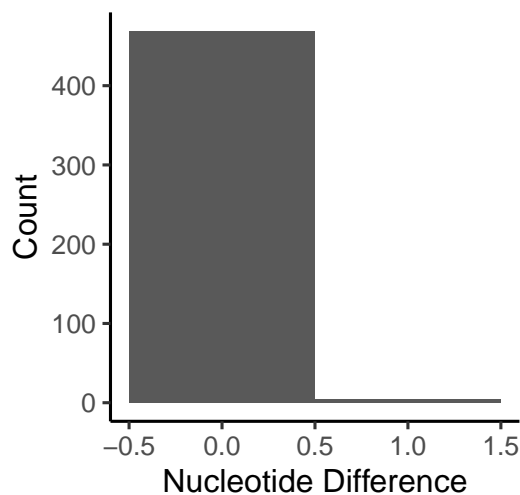
TRBV4-1*ap01

919 sequences assigned
904 (98.4%) exact matches, in which:
868 unique CDR3
13 unique J



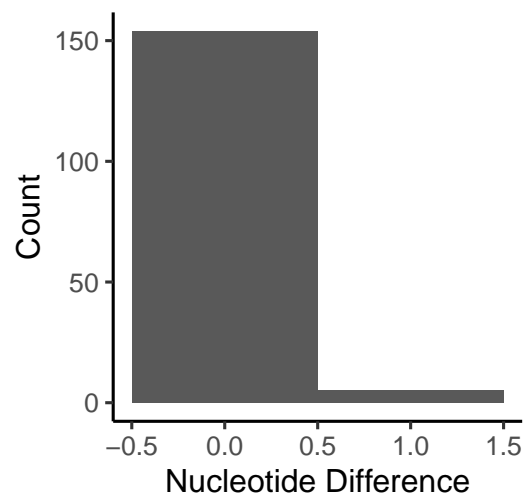
TRBV4-3*ap01

473 sequences assigned
469 (99.2%) exact matches, in which:
448 unique CDR3
13 unique J



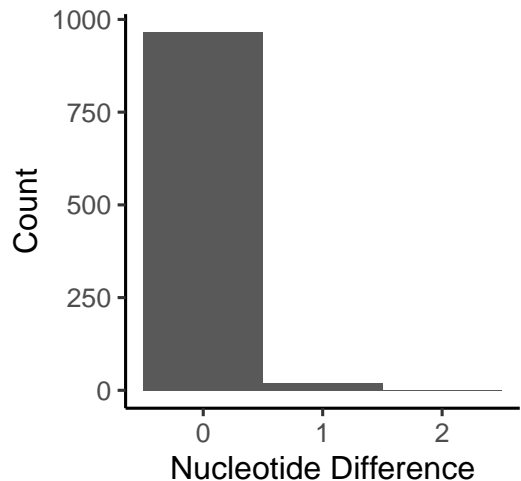
TRBV5-3*ap01

159 sequences assigned
154 (96.9%) exact matches, in which:
146 unique CDR3
13 unique J



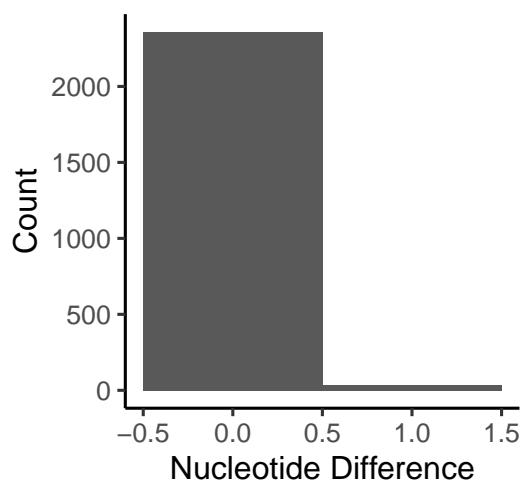
TRBV24-1*ap01

987 sequences assigned
966 (97.9%) exact matches, in which:
924 unique CDR3
13 unique J



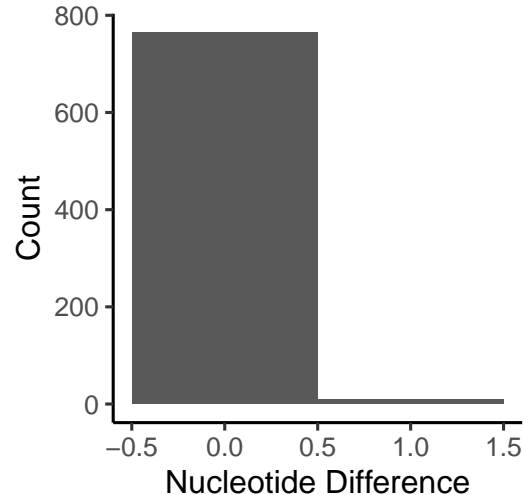
TRBV5-1*ap01

2391 sequences assigned
2358 (98.6%) exact matches, in which:
2239 unique CDR3
13 unique J



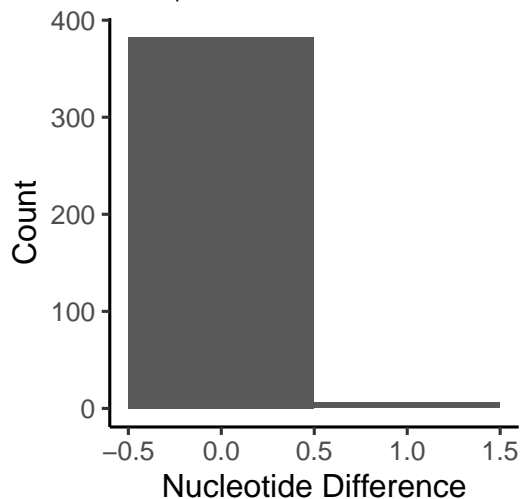
TRBV5-4*ap01

775 sequences assigned
765 (98.7%) exact matches, in which:
728 unique CDR3
13 unique J



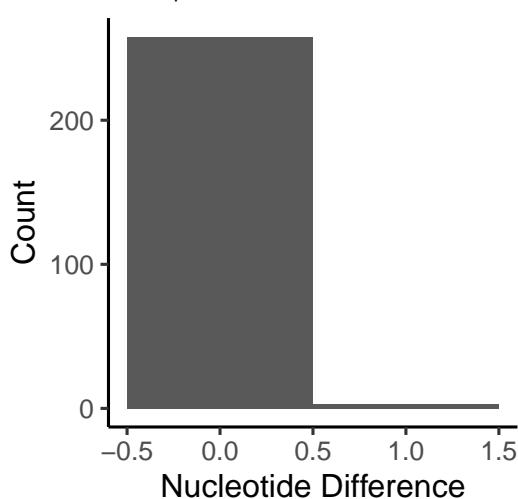
TRBV5–5*ap01

389 sequences assigned
383 (98.5%) exact matches, in which:
373 unique CDR3
13 unique J



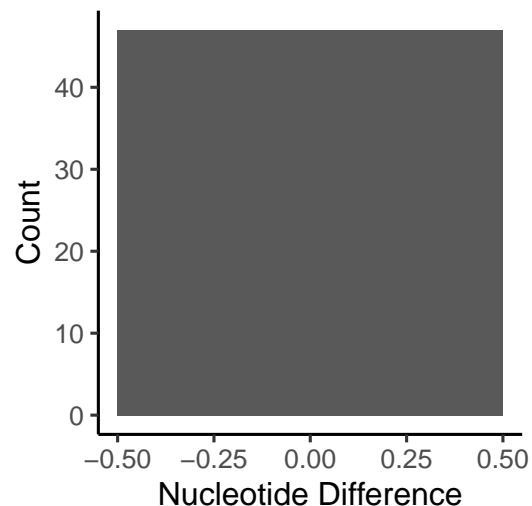
TRBV5–8*ap01

261 sequences assigned
258 (98.9%) exact matches, in which:
250 unique CDR3
13 unique J



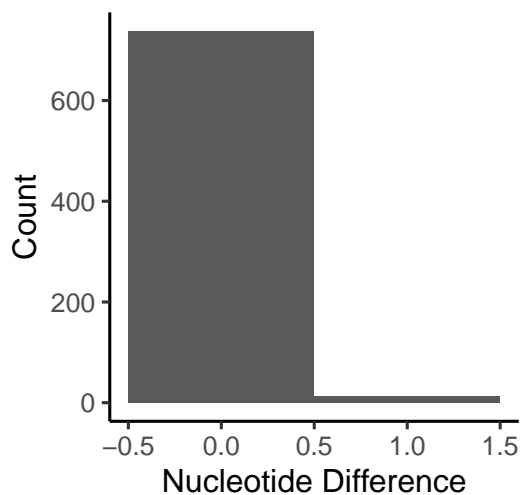
TRBV6–7*ap01

47 sequences assigned
47 (100%) exact matches, in which:
43 unique CDR3
11 unique J



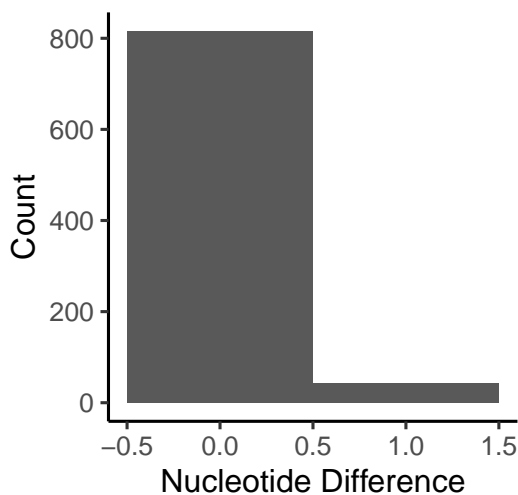
TRBV5–6*ap01

751 sequences assigned
738 (98.3%) exact matches, in which:
702 unique CDR3
13 unique J



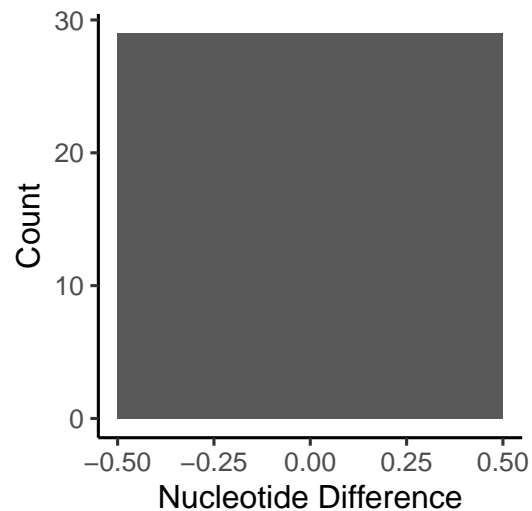
TRBV6–1*ap01

859 sequences assigned
816 (95%) exact matches, in which:
781 unique CDR3
13 unique J



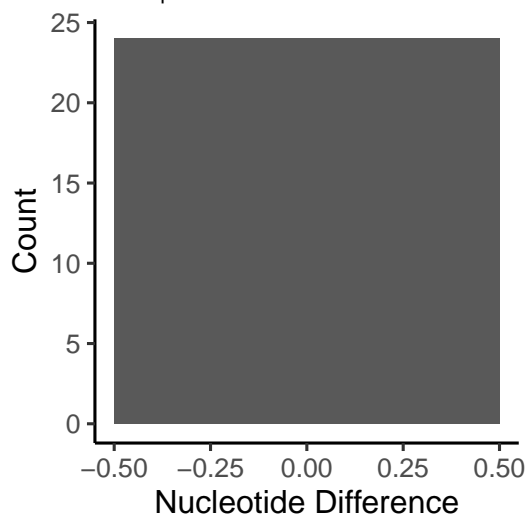
TRBV6–8*ap01

29 sequences assigned
29 (100%) exact matches, in which:
28 unique CDR3
10 unique J



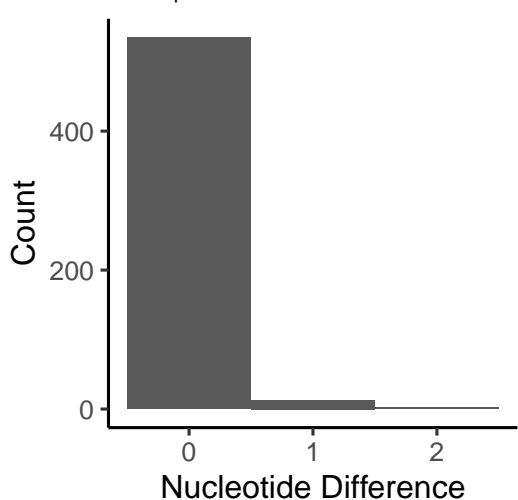
TRBV5–7*ap01

24 sequences assigned
24 (100%) exact matches, in which:
24 unique CDR3
10 unique J



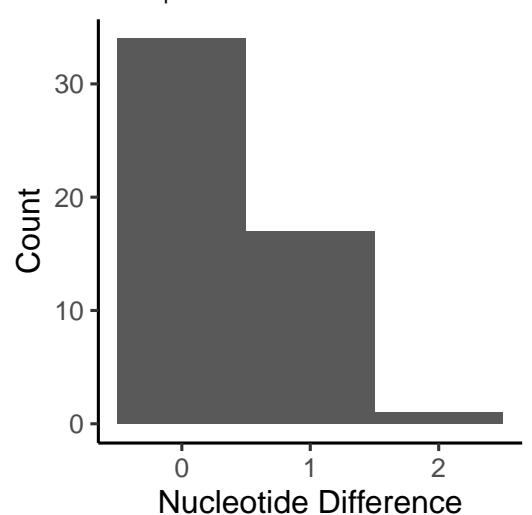
TRBV6–4*ap01

550 sequences assigned
535 (97.3%) exact matches, in which:
517 unique CDR3
13 unique J



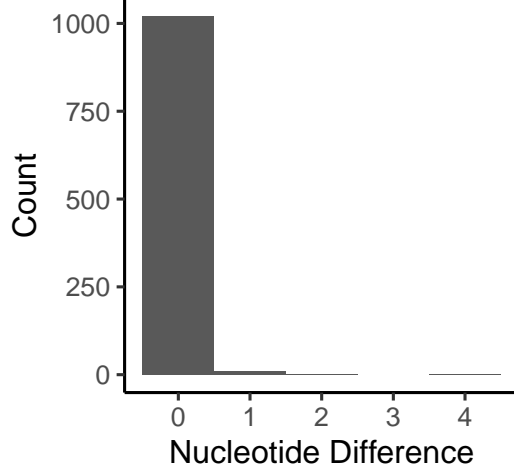
TRBV6–9*ap01

52 sequences assigned
34 (65.4%) exact matches, in which:
34 unique CDR3
10 unique J



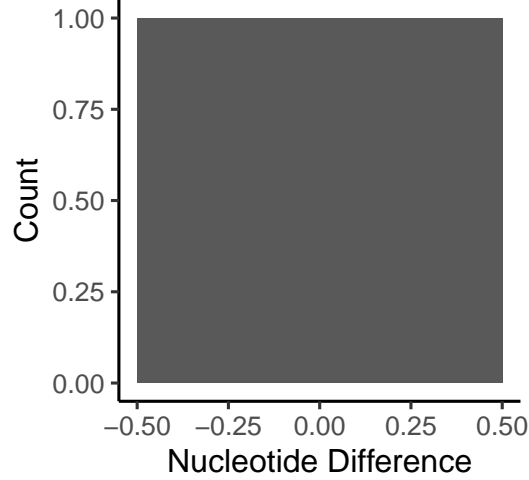
TRBV6-23*ap01

1032 sequences assigned
1020 (98.8%) exact matches, in which:
964 unique CDR3
13 unique J



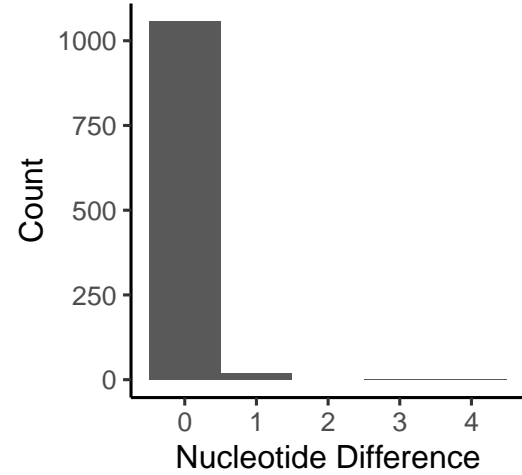
TRBV7-1*ap01

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



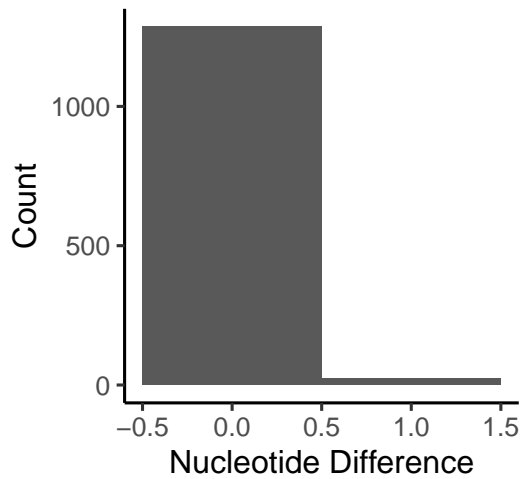
TRBV7-3*ap01

1079 sequences assigned
1057 (98%) exact matches, in which:
1019 unique CDR3
13 unique J



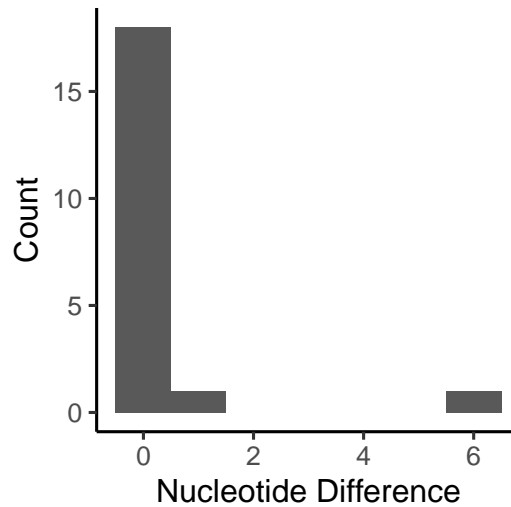
TRBV6-56*ap01

1311 sequences assigned
1286 (98.1%) exact matches, in which:
1227 unique CDR3
13 unique J



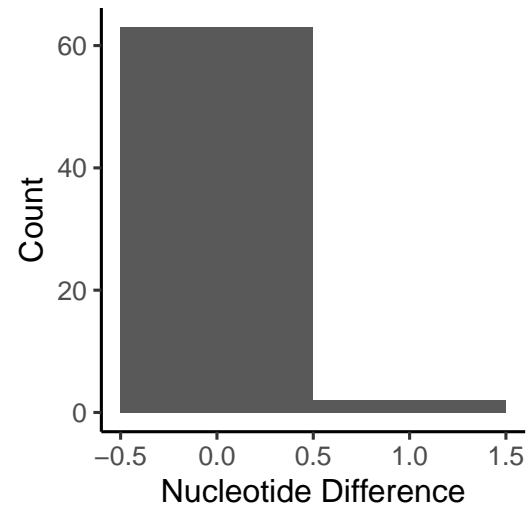
TRBV7-1*ap01_G291C_T

20 sequences assigned
18 (90%) exact matches, in which:
18 unique CDR3
9 unique J



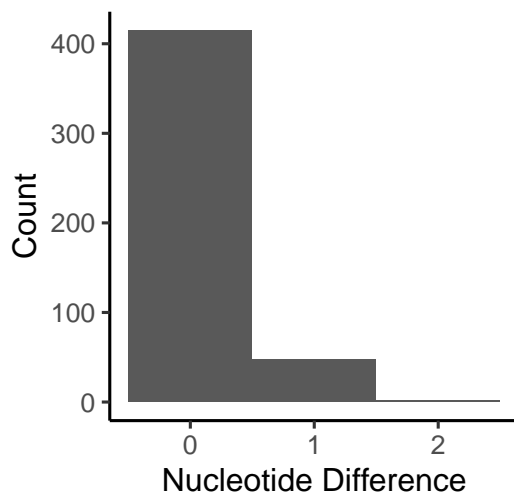
TRBV7-4*ap01

65 sequences assigned
63 (96.9%) exact matches, in which:
59 unique CDR3
11 unique J



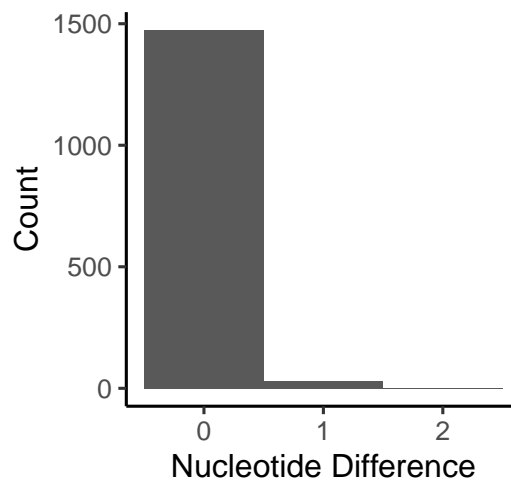
TRBV6-56*ap02

465 sequences assigned
415 (89.2%) exact matches, in which:
388 unique CDR3
13 unique J



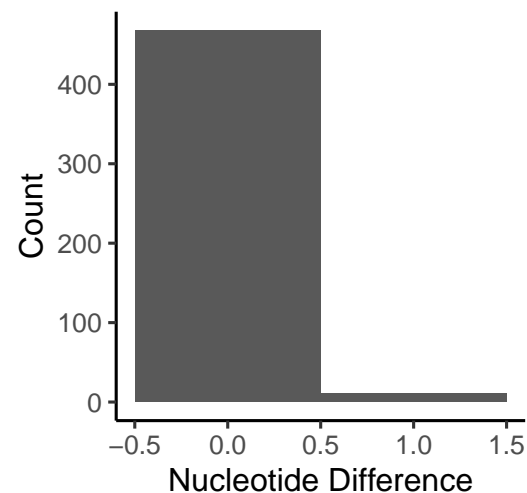
TRBV7-2*ap01

1504 sequences assigned
1474 (98%) exact matches, in which:
1414 unique CDR3
13 unique J



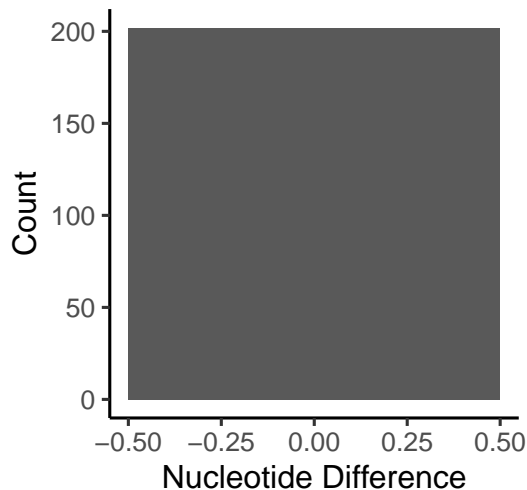
TRBV7-6*ap01

479 sequences assigned
468 (97.7%) exact matches, in which:
446 unique CDR3
13 unique J



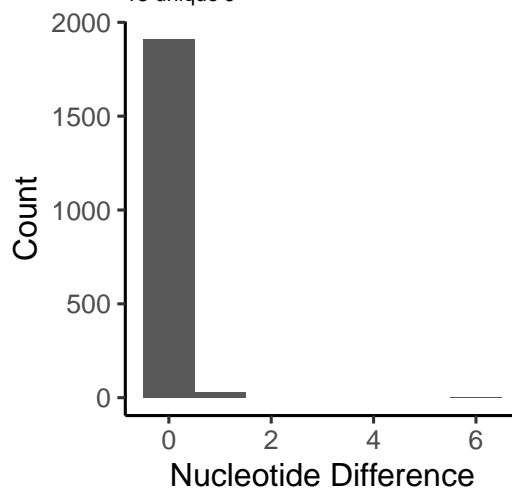
TRBV7-7*ap01_C315T

202 sequences assigned
202 (100%) exact matches, in which:
194 unique CDR3
13 unique J



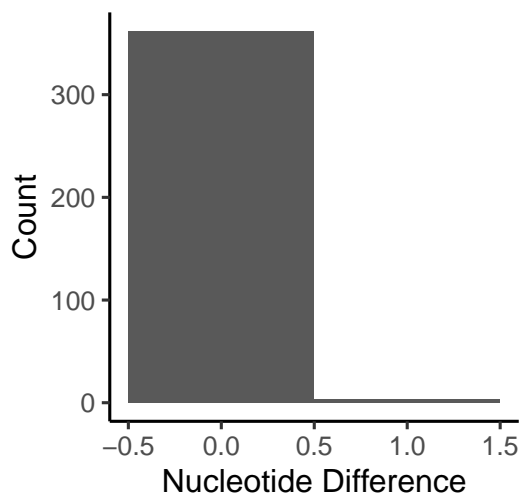
TRBV7-9*ap01

1938 sequences assigned
1909 (98.5%) exact matches, in which:
1828 unique CDR3
13 unique J



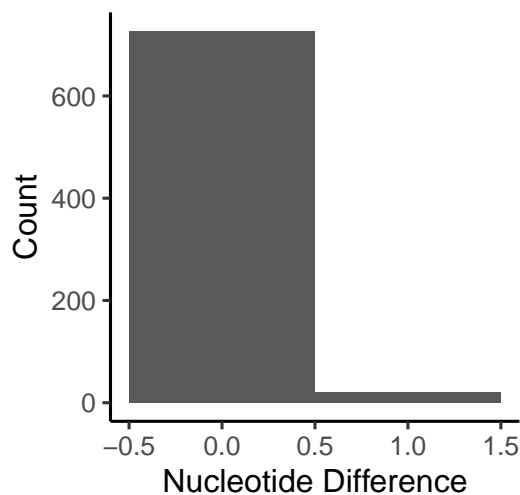
TRBV7-8*ap01

365 sequences assigned
362 (99.2%) exact matches, in which:
342 unique CDR3
13 unique J



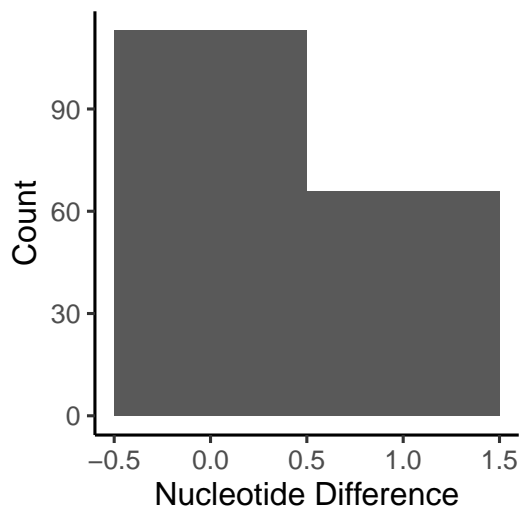
TRBV29-1*ap01

748 sequences assigned
727 (97.2%) exact matches, in which:
696 unique CDR3
13 unique J



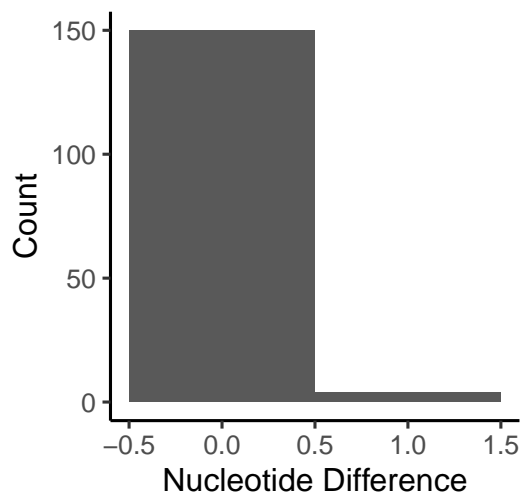
TRBV7-8*ap03

179 sequences assigned
113 (63.1%) exact matches, in which:
109 unique CDR3
12 unique J

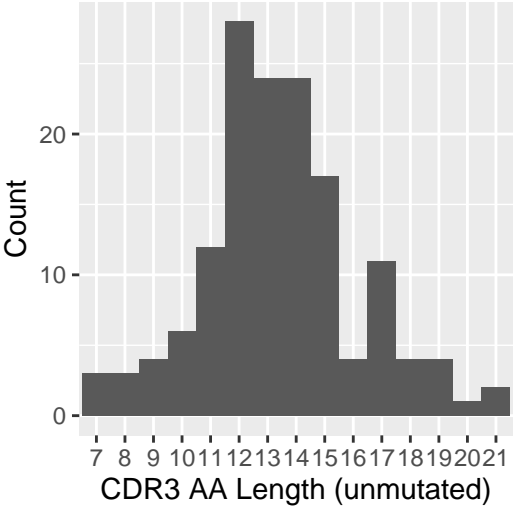


TRBV29-1*ap02

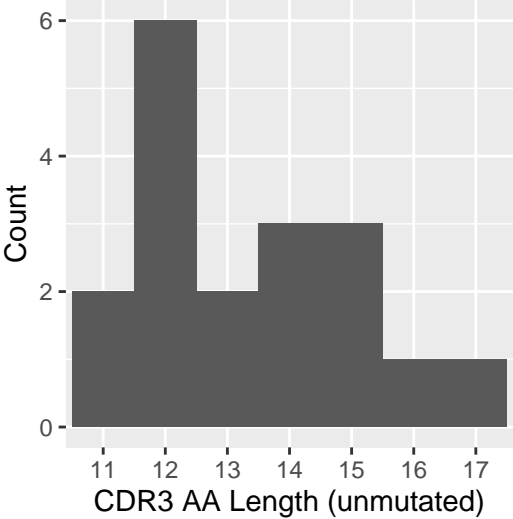
154 sequences assigned
150 (97.4%) exact matches, in which:
149 unique CDR3
13 unique J



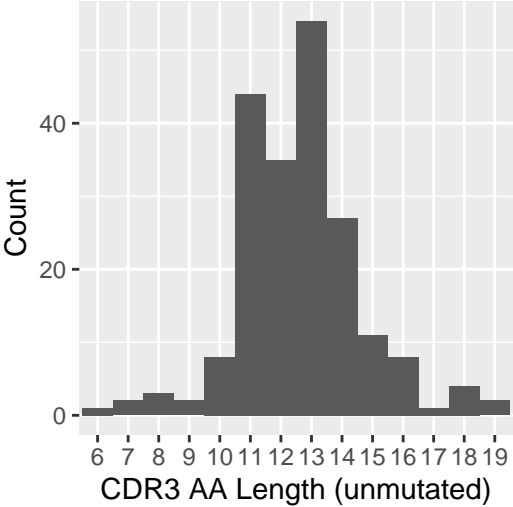
TRBV23-1*ap01_T304C



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]