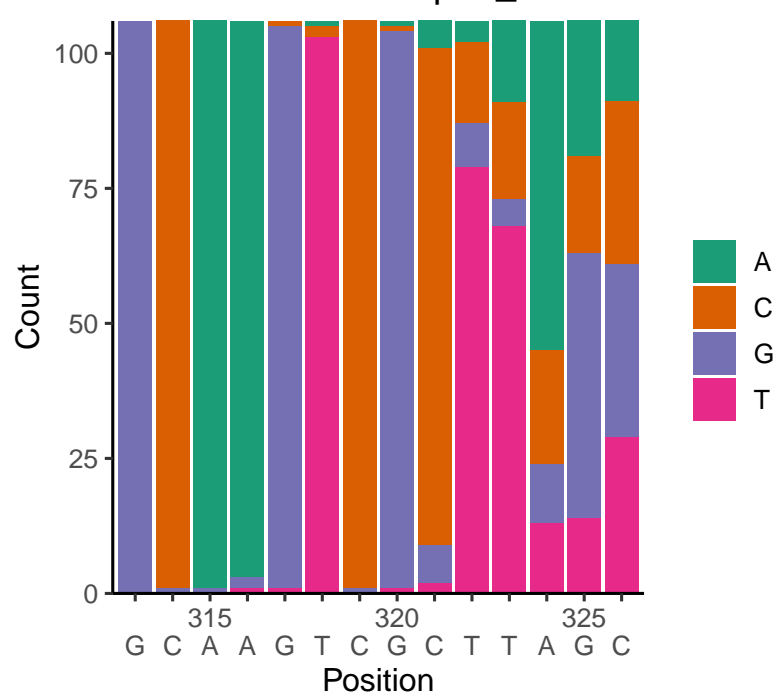
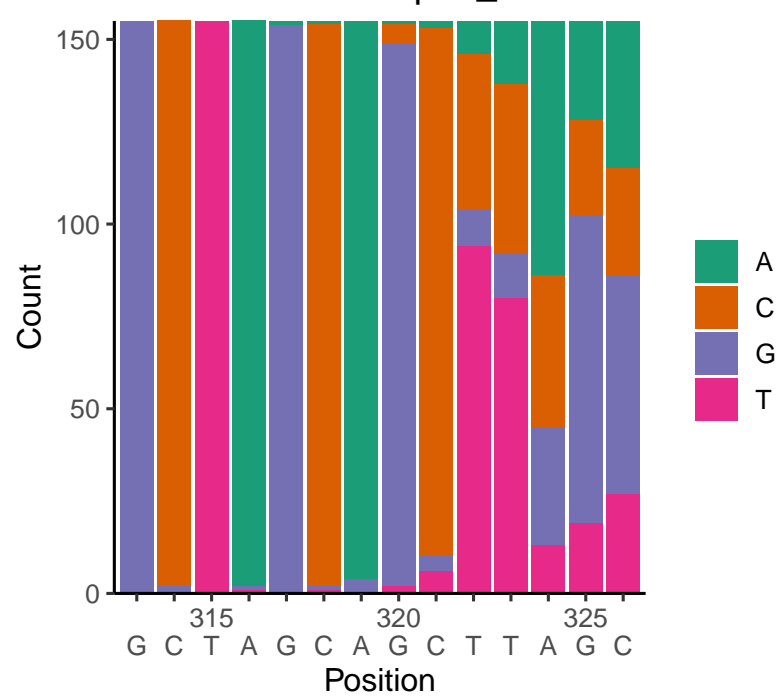


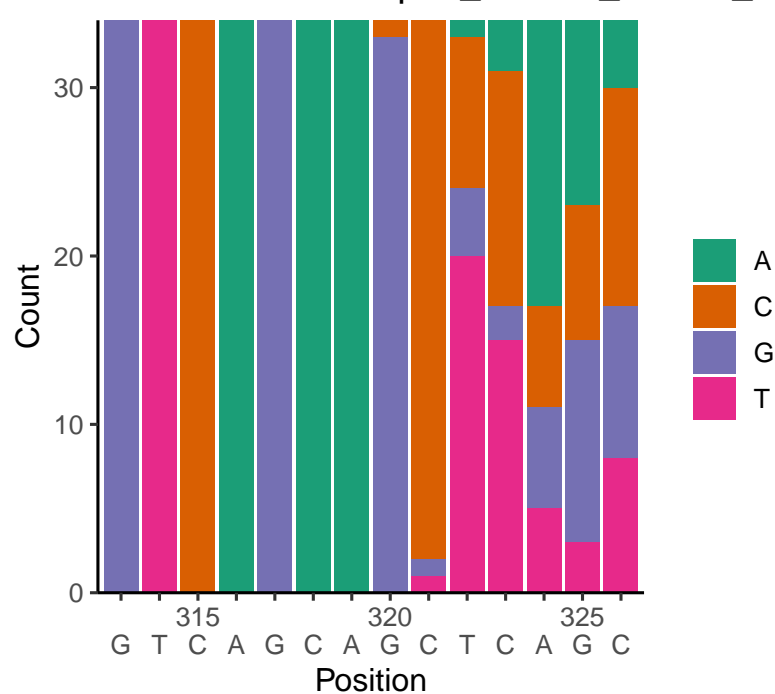
Gene TRBV12-2*ap01_G301A



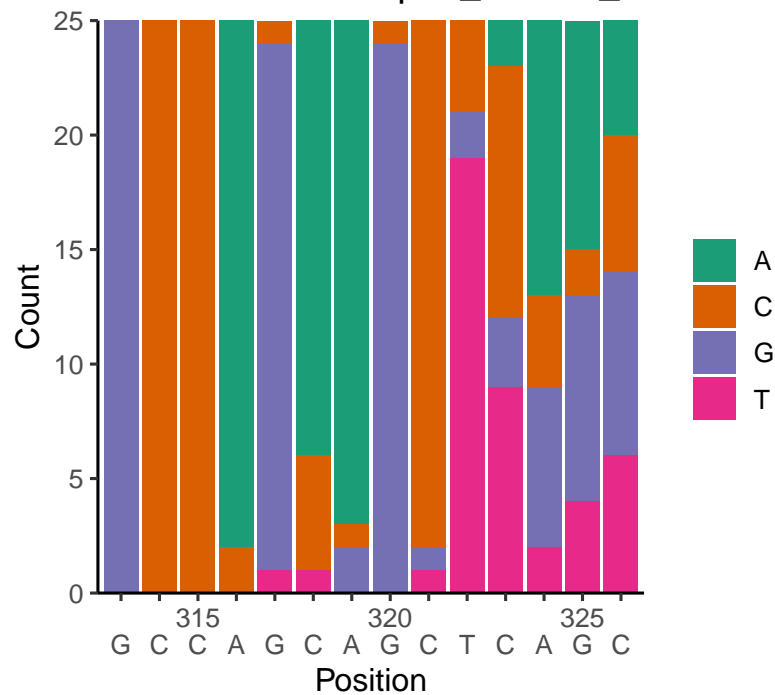
Gene TRBV7-7*ap01_C315T



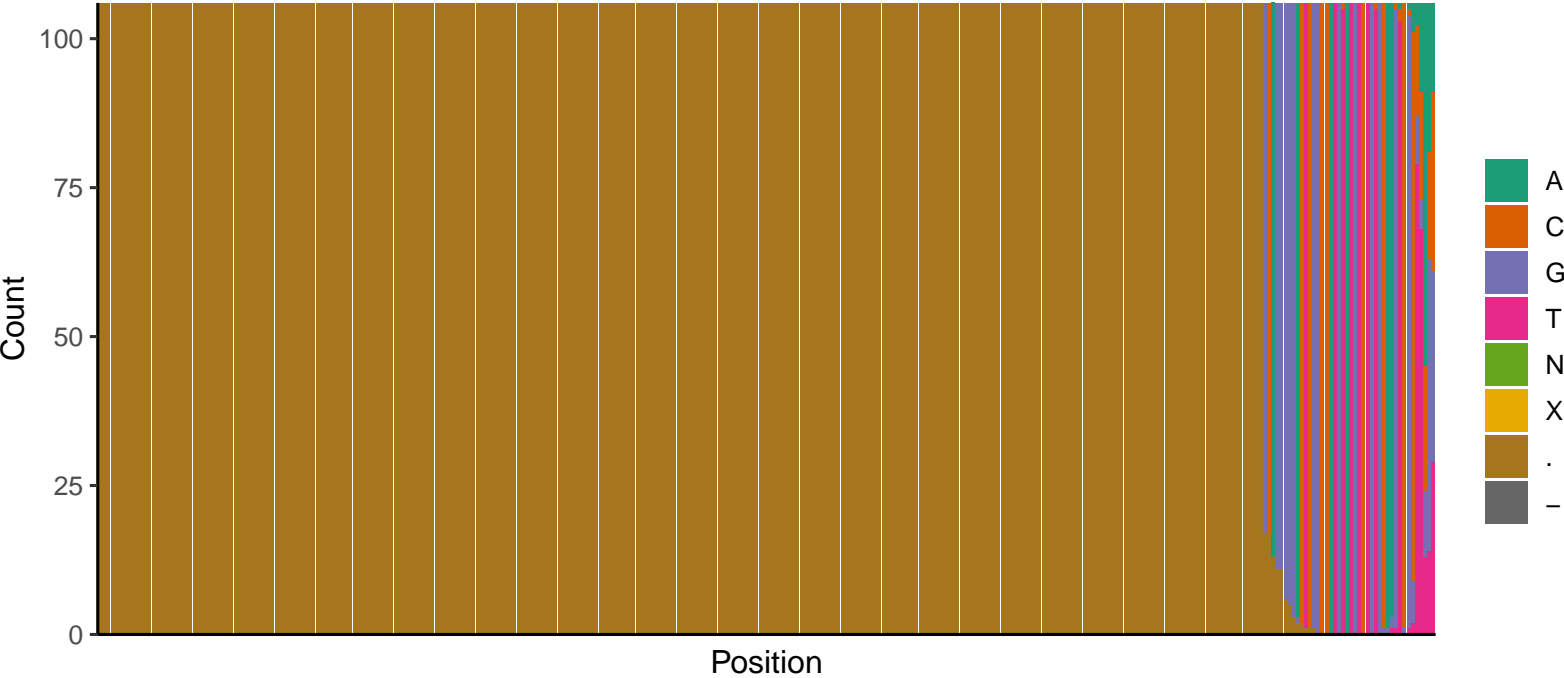
Gene TRBV7-1*ap01_G291C_T296C_C314T



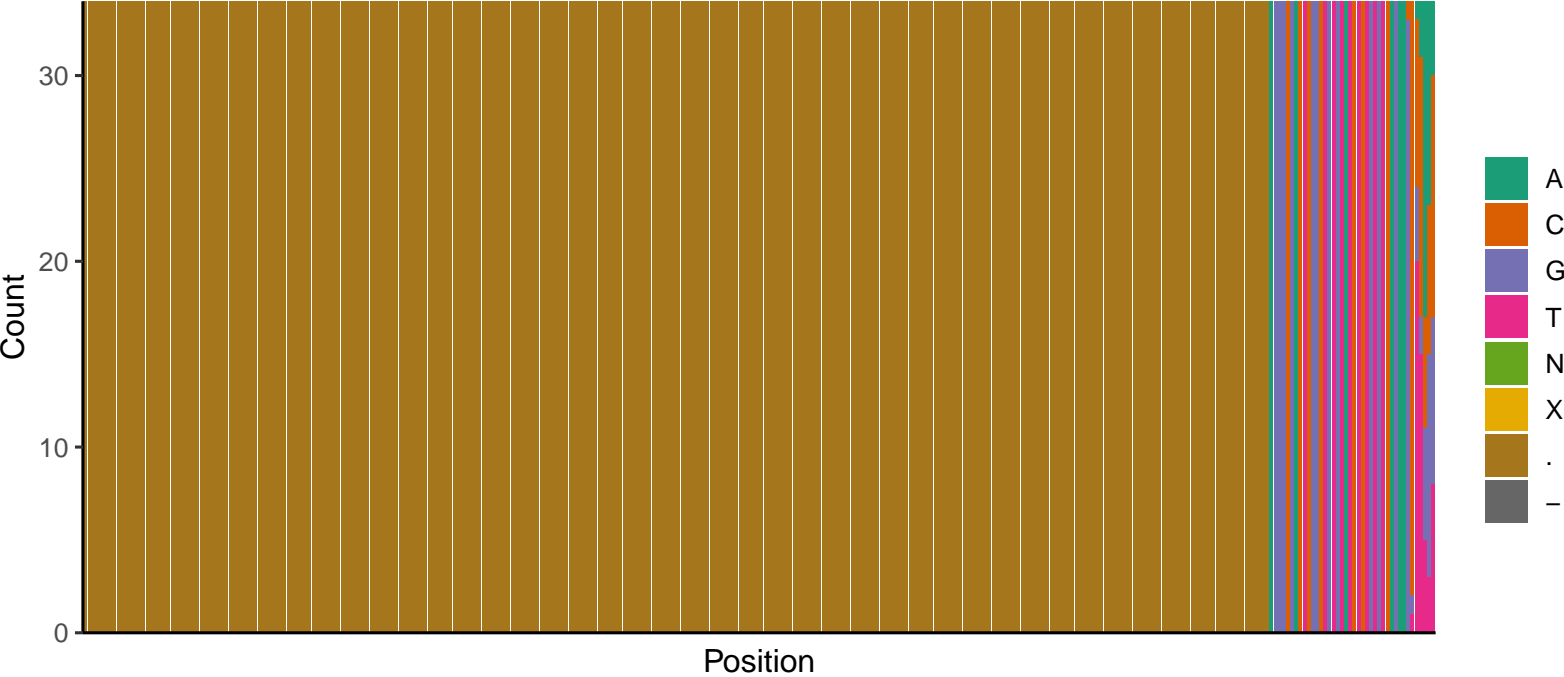
Gene TRBV7-1*ap01_G291C_T296C



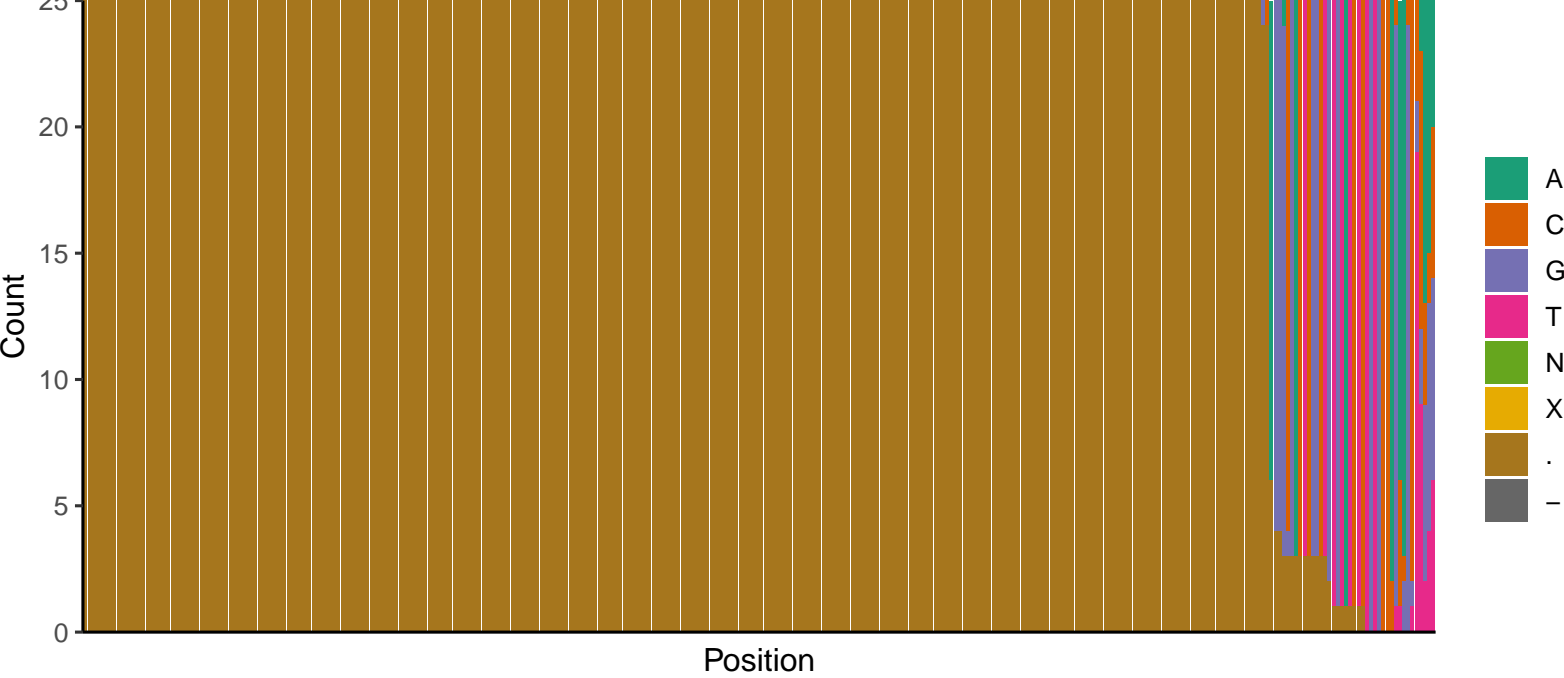
Gene TRBV12-2*ap01_G301A



Gene TRBV7-1*ap01_G291C_T296C_C314T



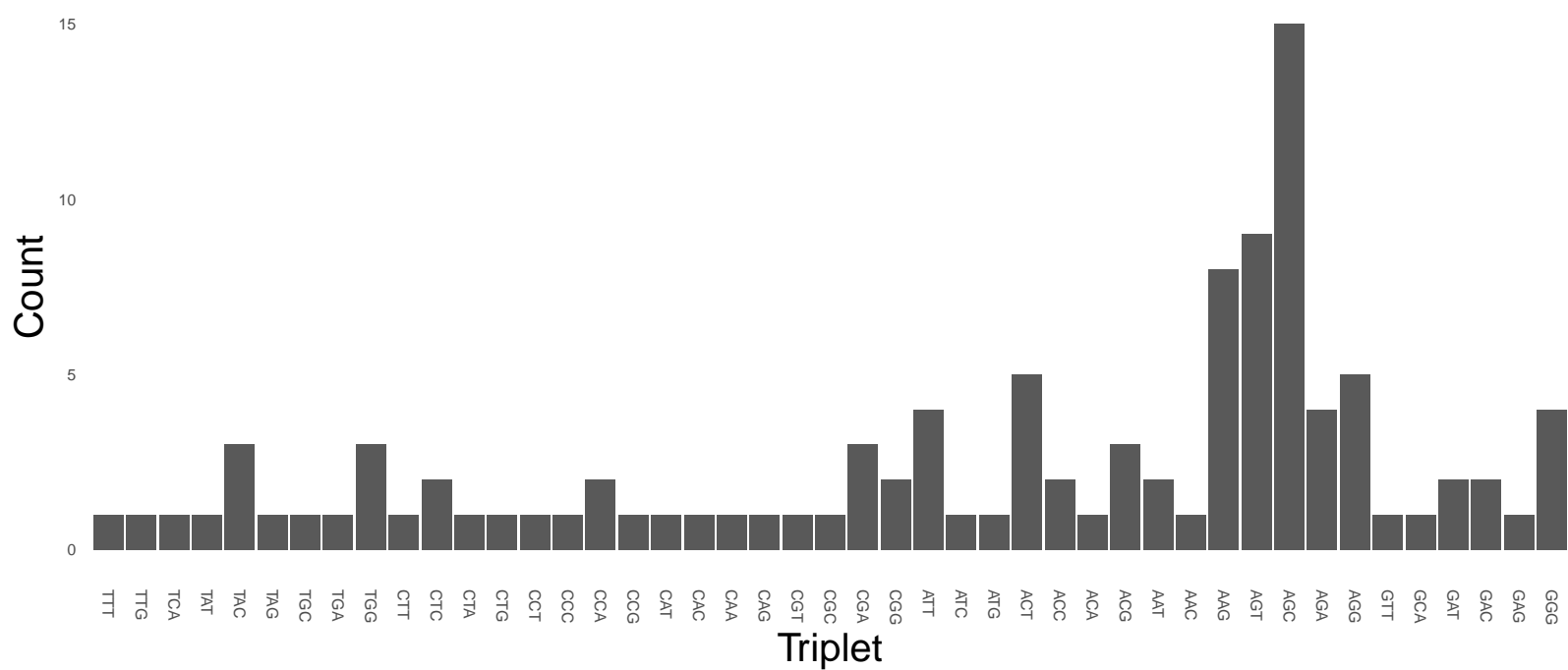
Gene TRBV7-1*ap01_G291C_T296C



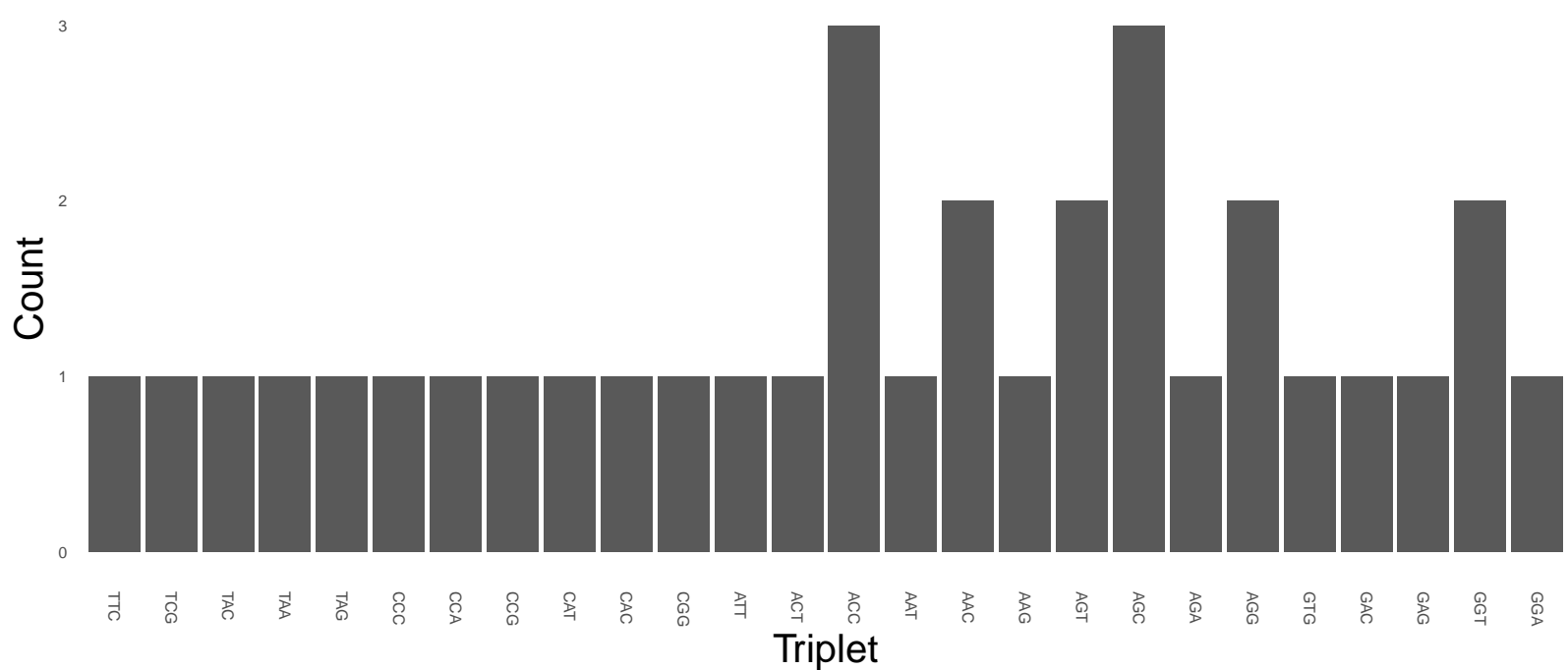
Gene TRBV7-7*ap01_C315T



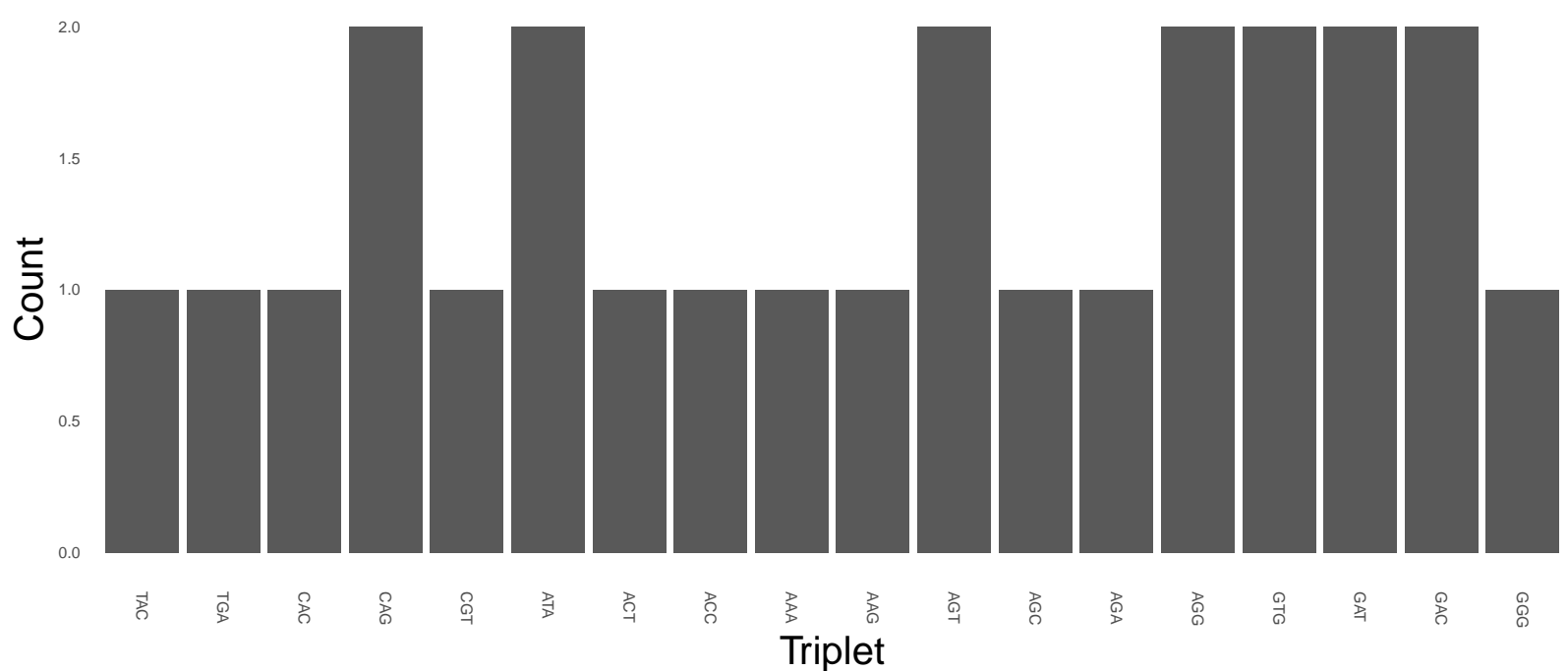
TRBV12-2*ap01_G301A- Final 3 nucleotides as a triplet



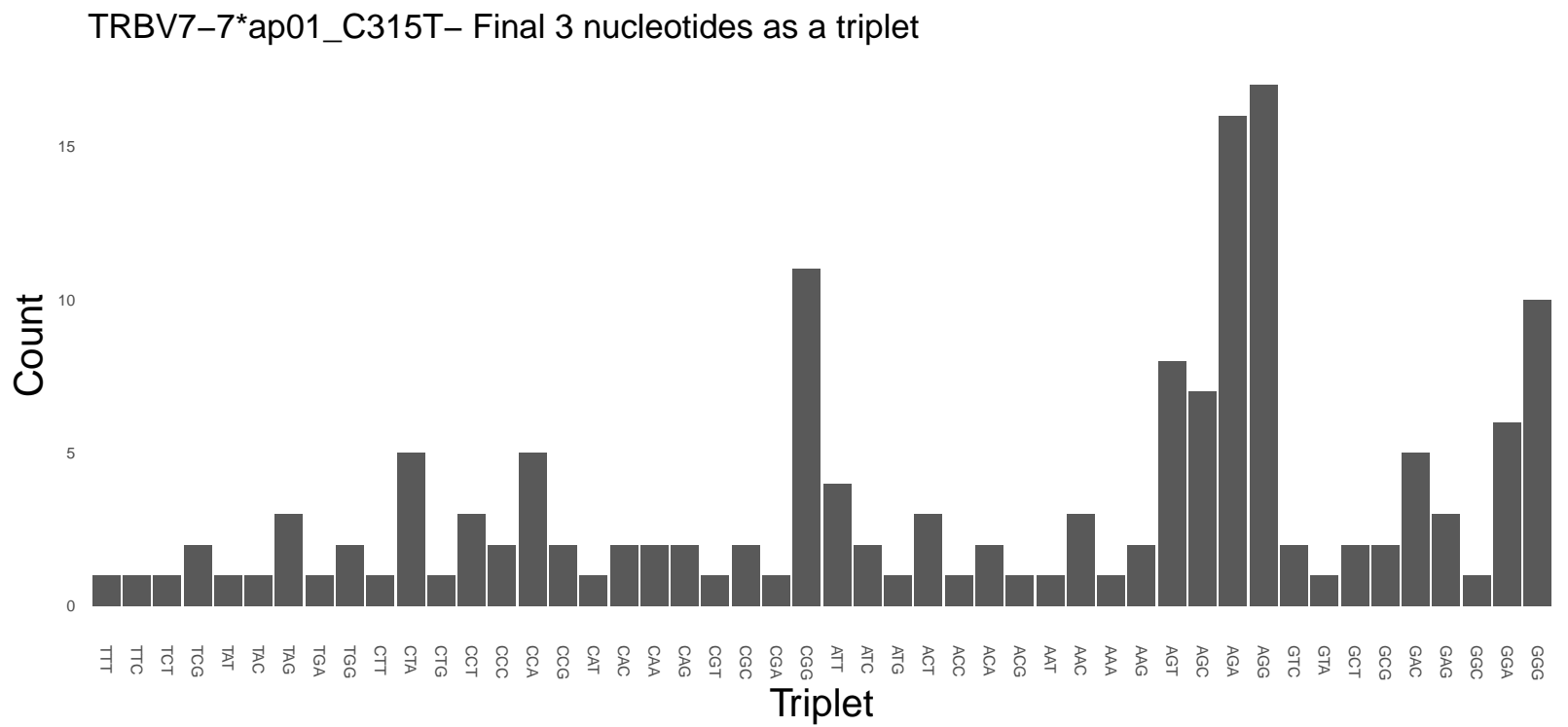
TRBV7-1*ap01_G291C_T296C_C314T- Final 3 nucleotides as a triplet



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

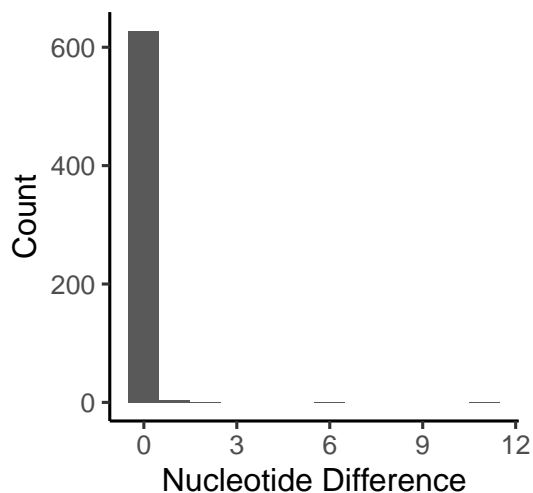


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



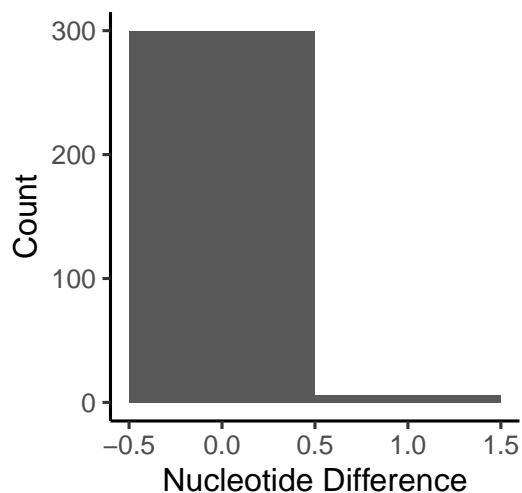
TRBV10–1*ap01

635 sequences assigned
628 (98.9%) exact matches, in which:
617 unique CDR3
13 unique J



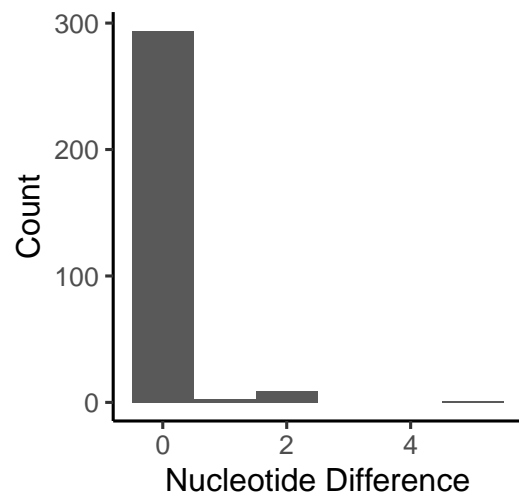
TRBV10–2*ap01

306 sequences assigned
300 (98%) exact matches, in which:
296 unique CDR3
13 unique J



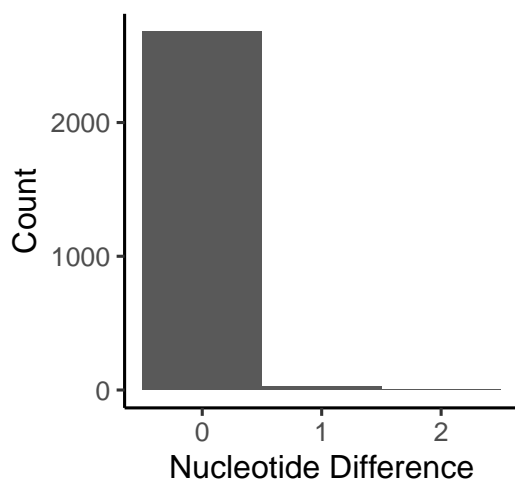
TRBV13*ap01

307 sequences assigned
294 (95.8%) exact matches, in which:
284 unique CDR3
13 unique J



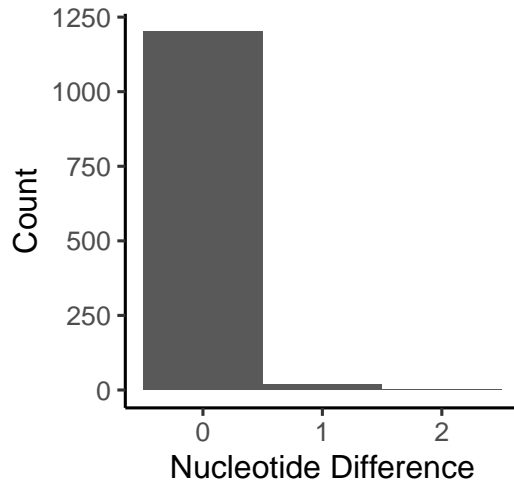
TRBV20–1*ap01

2712 sequences assigned
2679 (98.8%) exact matches, in which:
2633 unique CDR3
13 unique J



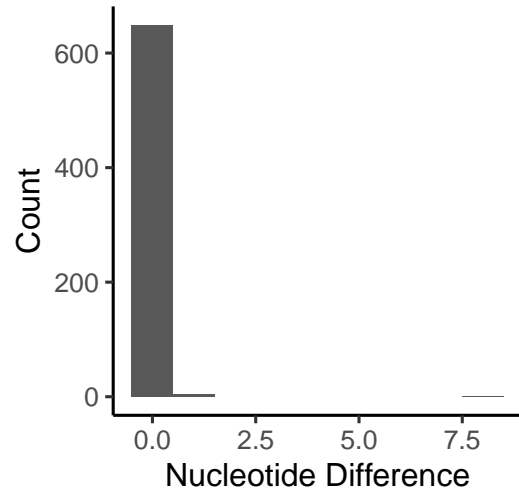
TRBV10–3*ap01

1219 sequences assigned
1201 (98.5%) exact matches, in which:
1180 unique CDR3
13 unique J



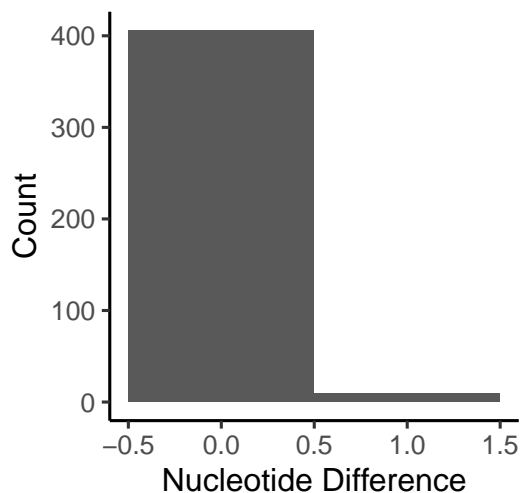
TRBV14*ap01

654 sequences assigned
649 (99.2%) exact matches, in which:
641 unique CDR3
13 unique J



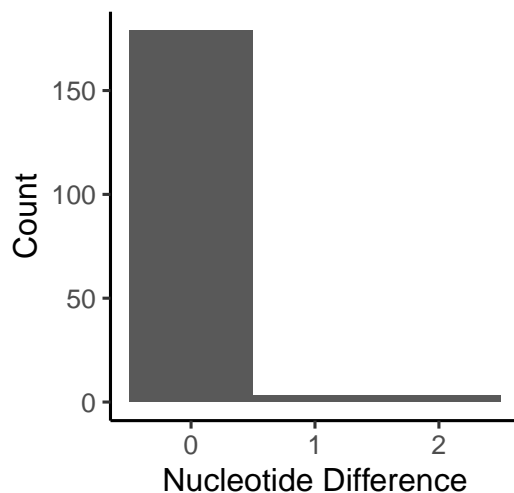
TRBV20–1*ap02

415 sequences assigned
406 (97.8%) exact matches, in which:
399 unique CDR3
13 unique J



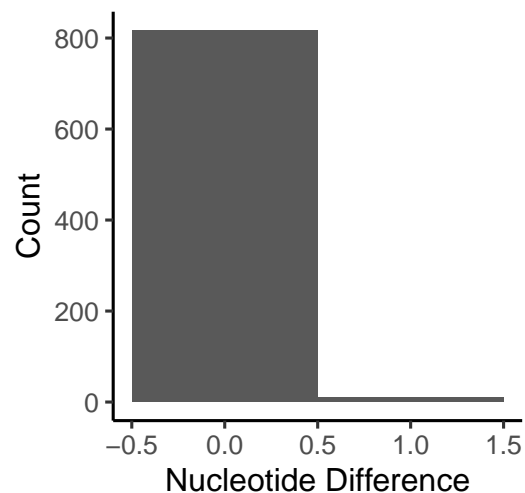
TRBV1*ap01

185 sequences assigned
179 (96.8%) exact matches, in which:
175 unique CDR3
13 unique J



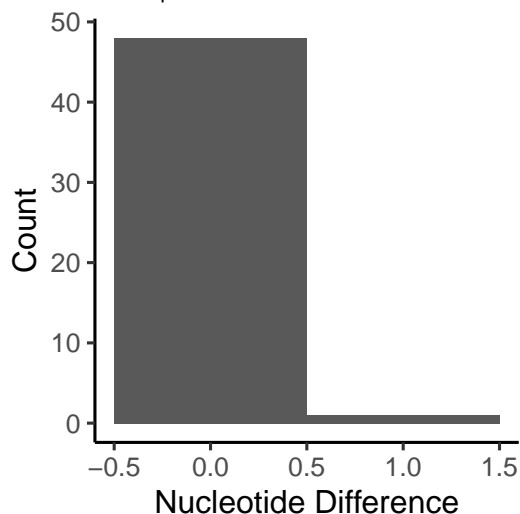
TRBV15*ap02

826 sequences assigned
817 (98.9%) exact matches, in which:
796 unique CDR3
13 unique J



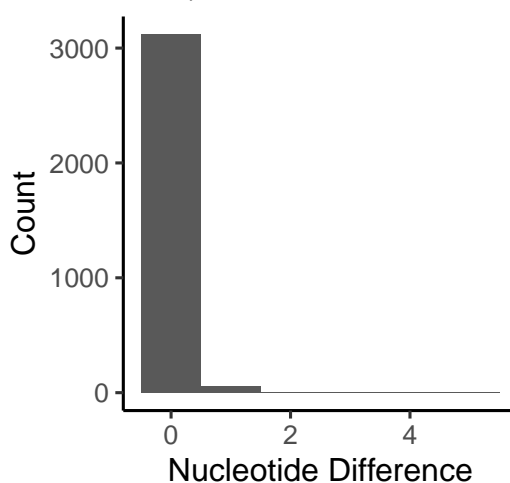
TRBV16*ap01

49 sequences assigned
48 (98%) exact matches, in which:
47 unique CDR3
11 unique J



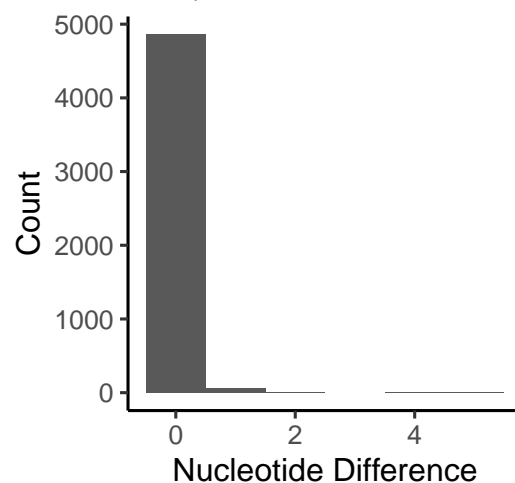
TRBV19*ap01

3179 sequences assigned
3119 (98.1%) exact matches, in which:
3067 unique CDR3
13 unique J



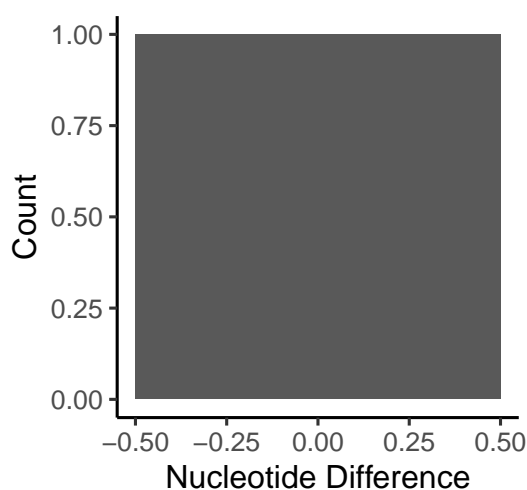
TRBV28*ap01

4933 sequences assigned
4861 (98.5%) exact matches, in which:
4746 unique CDR3
13 unique J



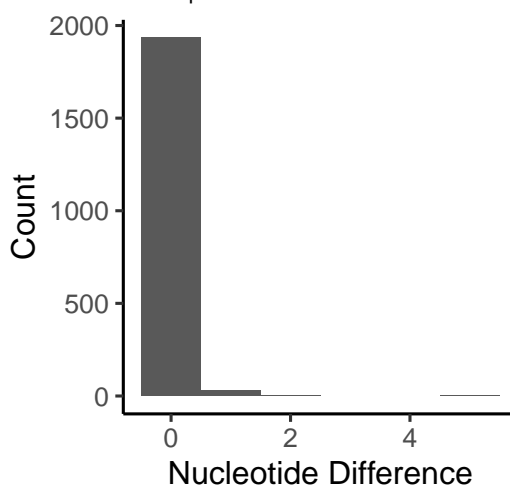
TRBV17*ap01

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



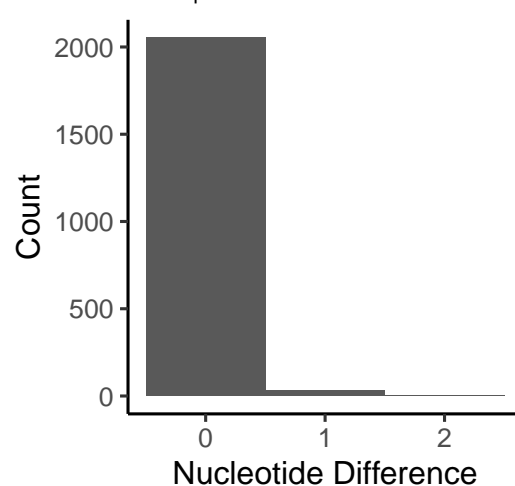
TRBV2*ap01

1967 sequences assigned
1934 (98.3%) exact matches, in which:
1914 unique CDR3
13 unique J



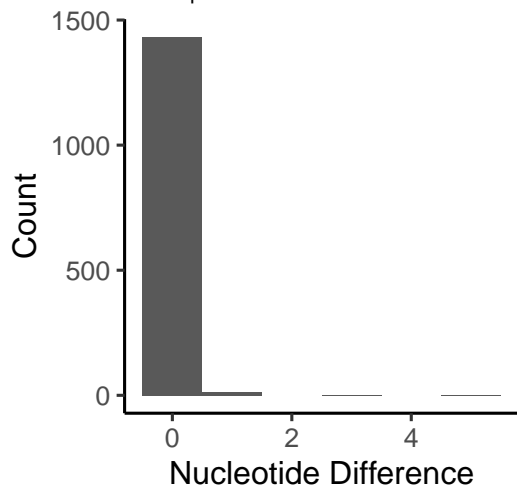
TRBV30*ap01

2088 sequences assigned
2053 (98.3%) exact matches, in which:
2031 unique CDR3
13 unique J



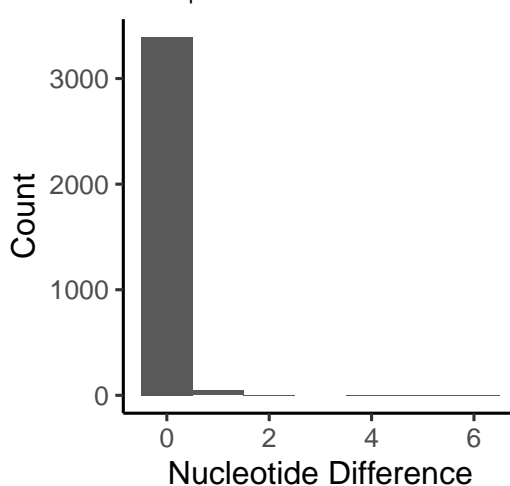
TRBV18*ap01

1448 sequences assigned
1432 (98.9%) exact matches, in which:
1395 unique CDR3
13 unique J



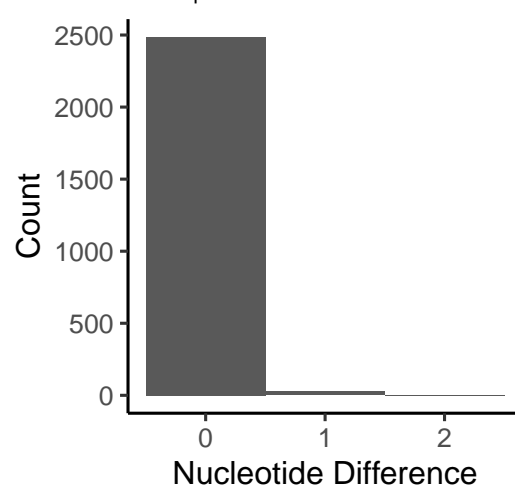
TRBV27*ap01

3444 sequences assigned
3393 (98.5%) exact matches, in which:
3328 unique CDR3
13 unique J



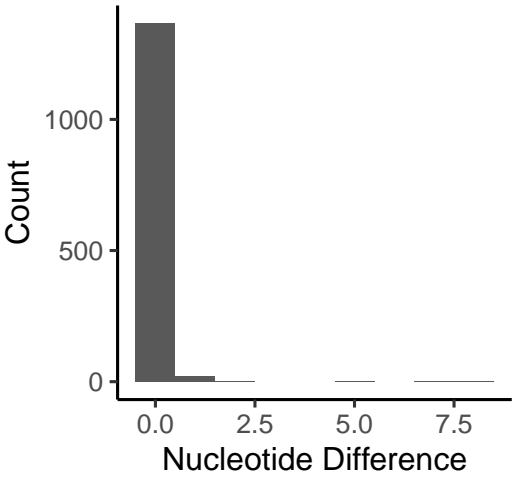
TRBV9*ap01

2515 sequences assigned
2486 (98.8%) exact matches, in which:
2434 unique CDR3
13 unique J



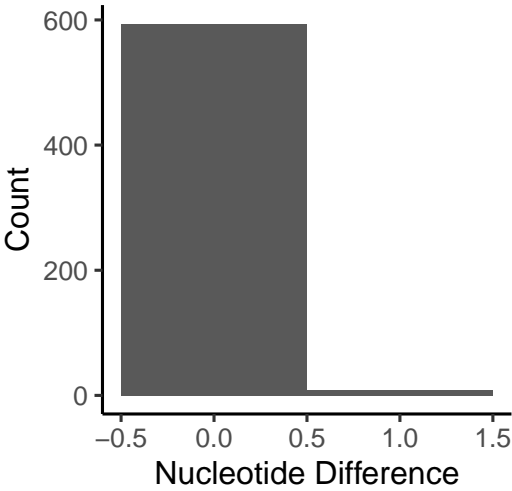
TRBV21-1*ap01

1394 sequences assigned
1366 (98%) exact matches, in which:
1333 unique CDR3
13 unique J



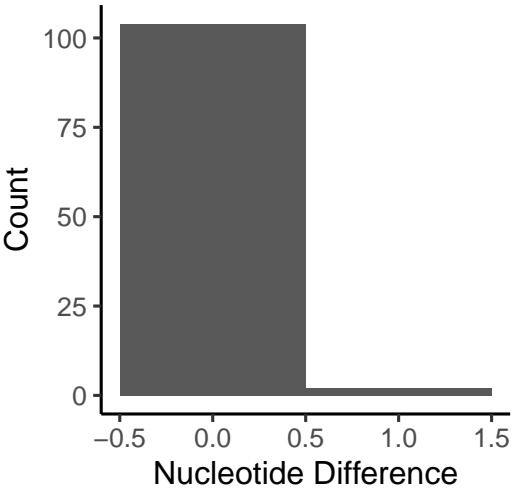
TRBV11-3*ap01

603 sequences assigned
594 (98.5%) exact matches, in which:
578 unique CDR3
13 unique J



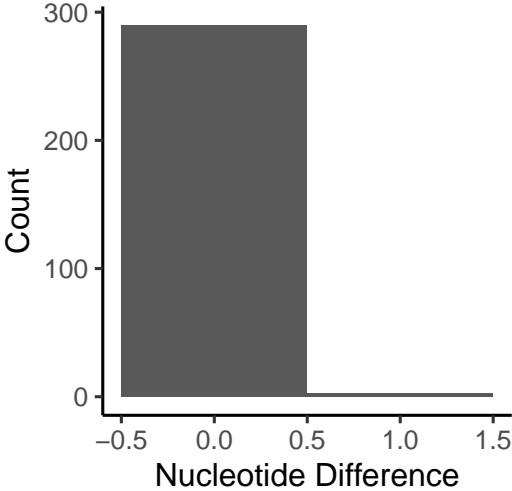
TRBV12-2*ap01_G301A

106 sequences assigned
104 (98.1%) exact matches, in which:
99 unique CDR3
13 unique J



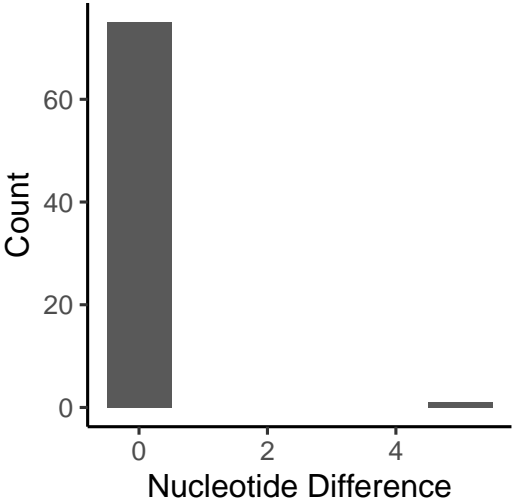
TRBV11-1*ap01

293 sequences assigned
290 (99%) exact matches, in which:
288 unique CDR3
13 unique J



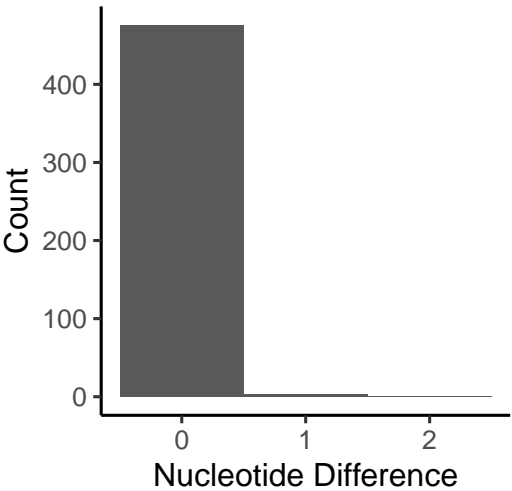
TRBV12-1*ap01

76 sequences assigned
75 (98.7%) exact matches, in which:
73 unique CDR3
12 unique J



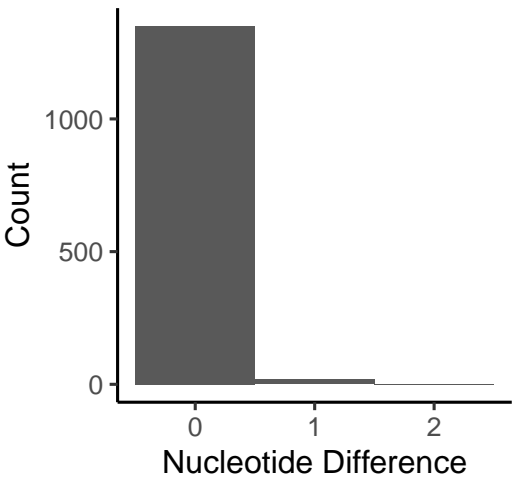
TRBV12-5*ap01

480 sequences assigned
476 (99.2%) exact matches, in which:
467 unique CDR3
13 unique J



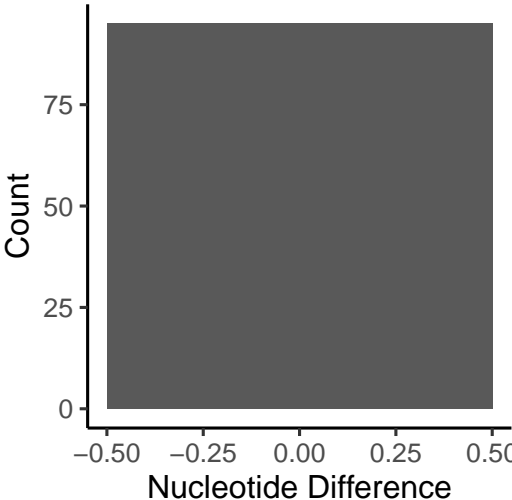
TRBV11-2*ap01

1370 sequences assigned
1350 (98.5%) exact matches, in which:
1330 unique CDR3
13 unique J



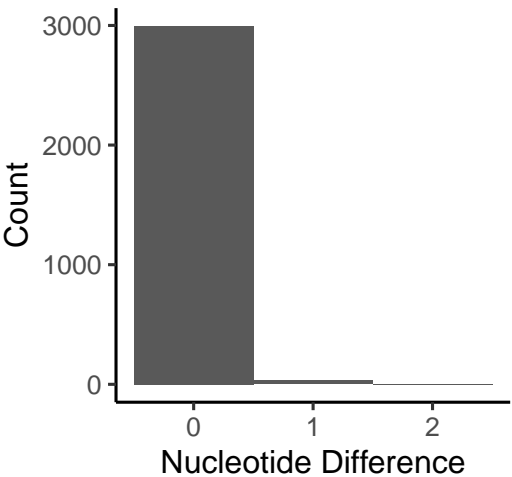
TRBV12-2*ap01

95 sequences assigned
95 (100%) exact matches, in which:
94 unique CDR3
12 unique J



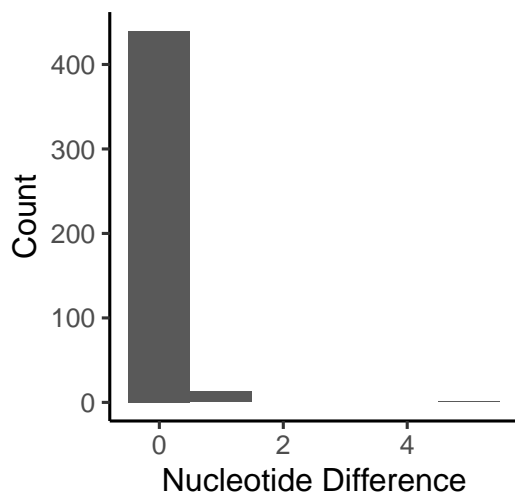
TRBV12-34*ap01

3028 sequences assigned
2995 (98.9%) exact matches, in which:
2953 unique CDR3
13 unique J



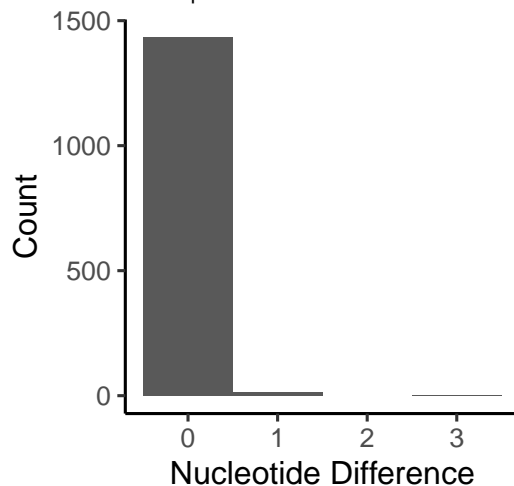
TRBV23-1*ap01

454 sequences assigned
440 (96.9%) exact matches, in which:
432 unique CDR3
13 unique J



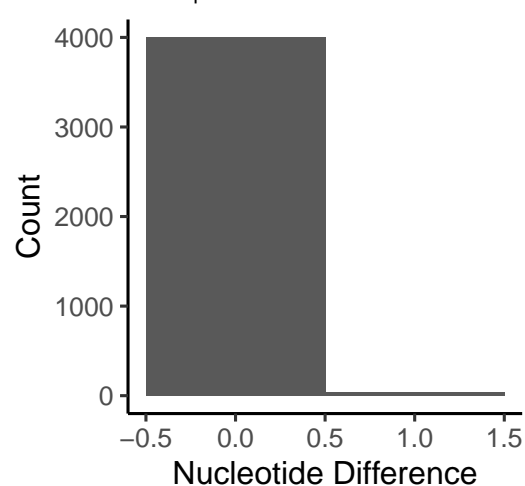
TRBV4-1*ap01

1447 sequences assigned
1433 (99%) exact matches, in which:
1416 unique CDR3
13 unique J



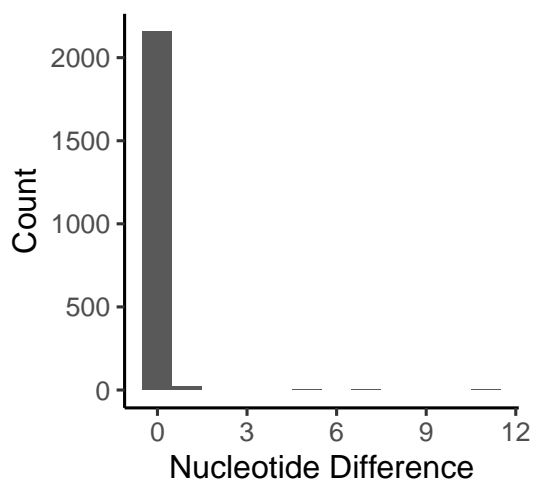
TRBV5-1*ap01

4034 sequences assigned
4000 (99.2%) exact matches, in which:
3907 unique CDR3
13 unique J



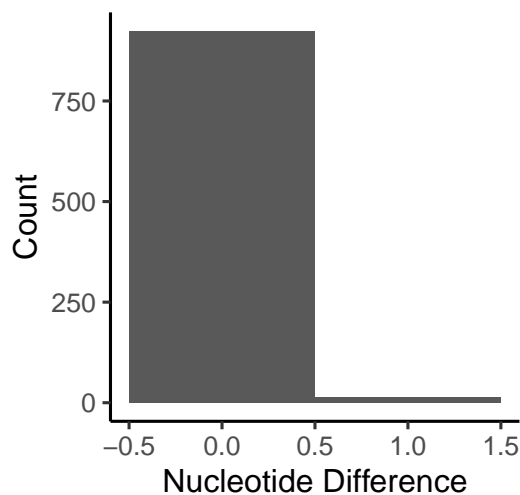
TRBV3-12*ap01

2182 sequences assigned
2156 (98.8%) exact matches, in which:
2124 unique CDR3
13 unique J



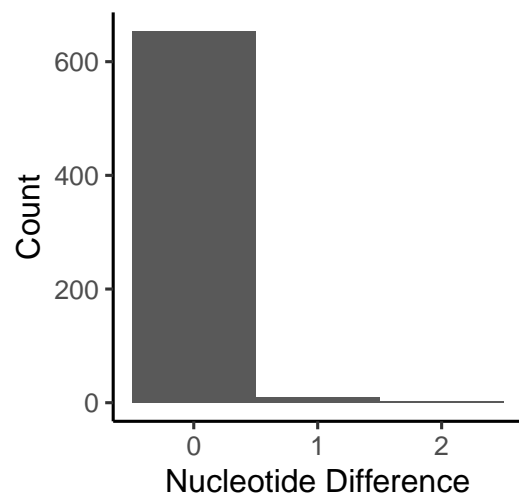
TRBV4-2*ap01

937 sequences assigned
924 (98.6%) exact matches, in which:
909 unique CDR3
13 unique J



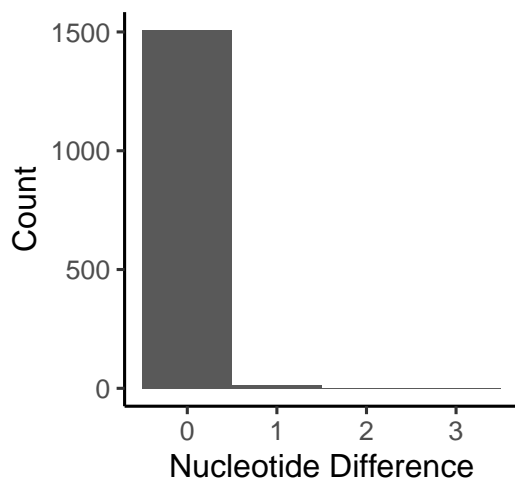
TRBV25-1*ap01

666 sequences assigned
654 (98.2%) exact matches, in which:
645 unique CDR3
13 unique J



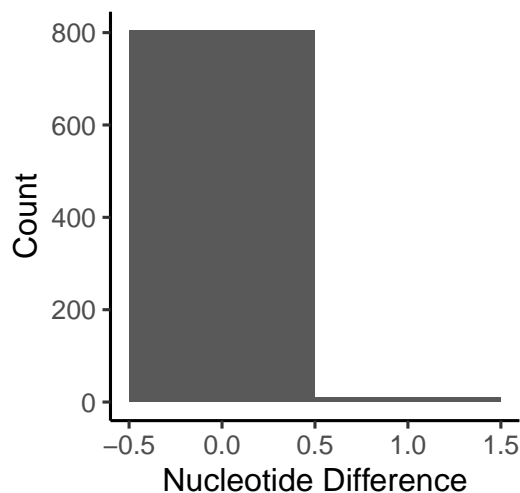
TRBV24-1*ap01

1525 sequences assigned
1508 (98.9%) exact matches, in which:
1488 unique CDR3
13 unique J



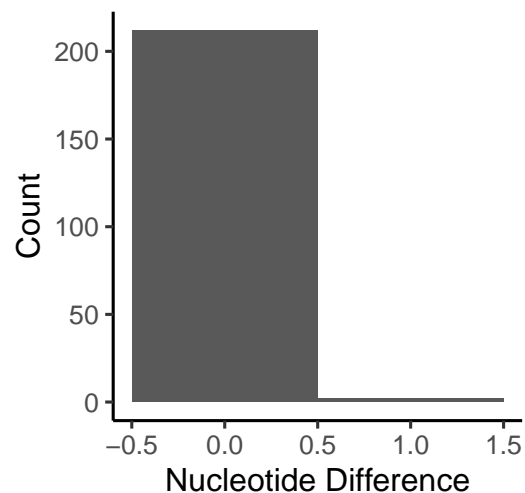
TRBV4-3*ap01

815 sequences assigned
805 (98.8%) exact matches, in which:
800 unique CDR3
13 unique J



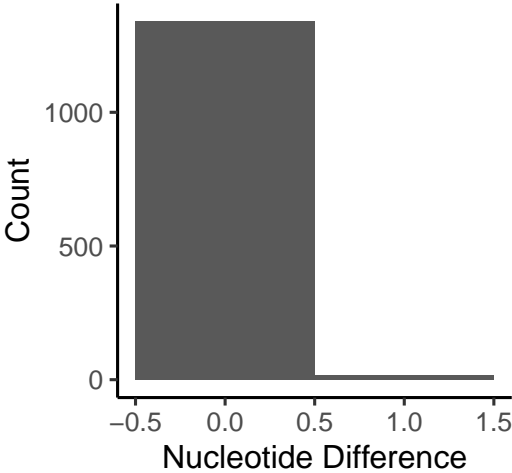
TRBV5-3*ap01

214 sequences assigned
212 (99.1%) exact matches, in which:
210 unique CDR3
13 unique J



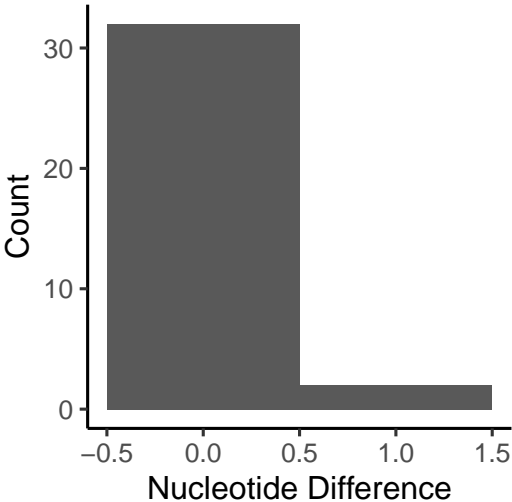
TRBV5-4*ap01

1357 sequences assigned
1340 (98.7%) exact matches, in which:
1323 unique CDR3
13 unique J



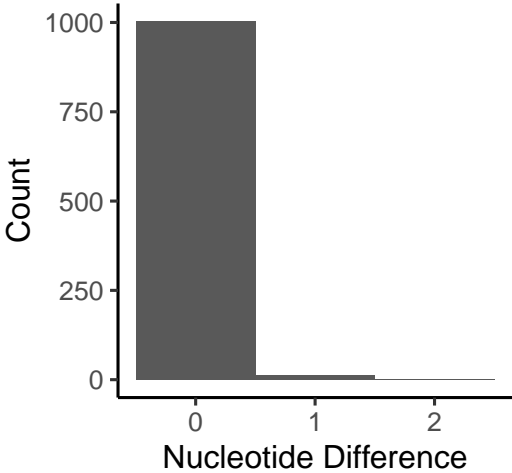
TRBV5-7*ap01

34 sequences assigned
32 (94.1%) exact matches, in which:
31 unique CDR3
8 unique J



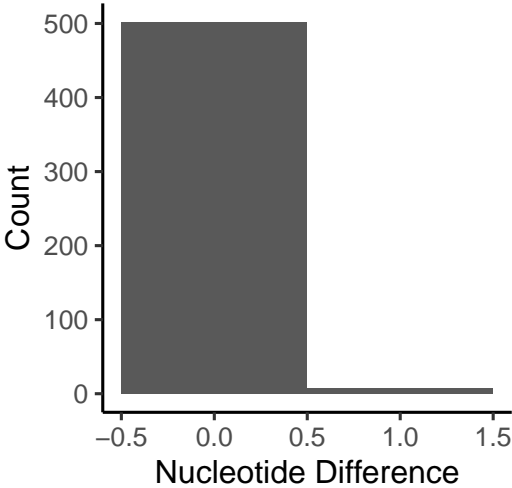
TRBV6-4*ap01

1016 sequences assigned
1003 (98.7%) exact matches, in which:
990 unique CDR3
13 unique J



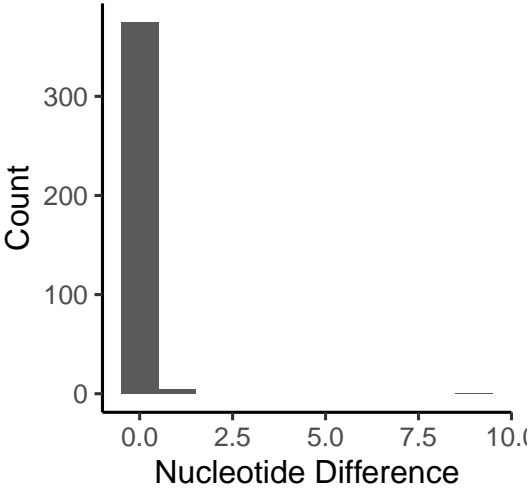
TRBV5-5*ap01

509 sequences assigned
502 (98.6%) exact matches, in which:
496 unique CDR3
13 unique J



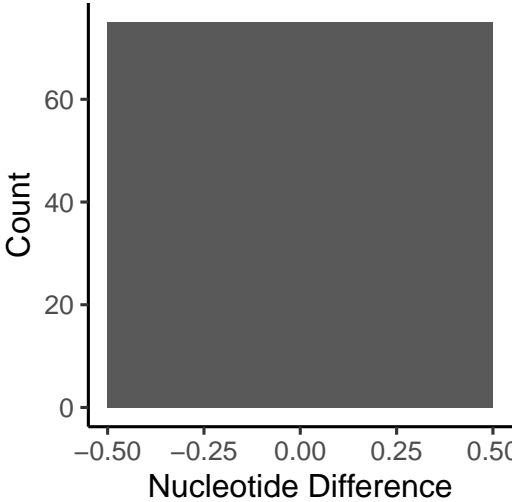
TRBV5-8*ap01

381 sequences assigned
375 (98.4%) exact matches, in which:
369 unique CDR3
13 unique J



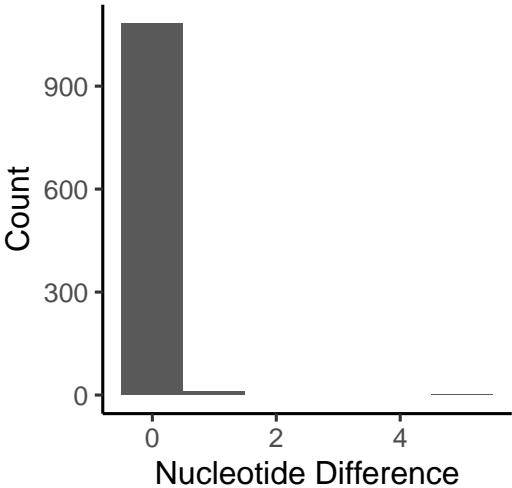
TRBV6-7*ap01

75 sequences assigned
75 (100%) exact matches, in which:
74 unique CDR3
12 unique J



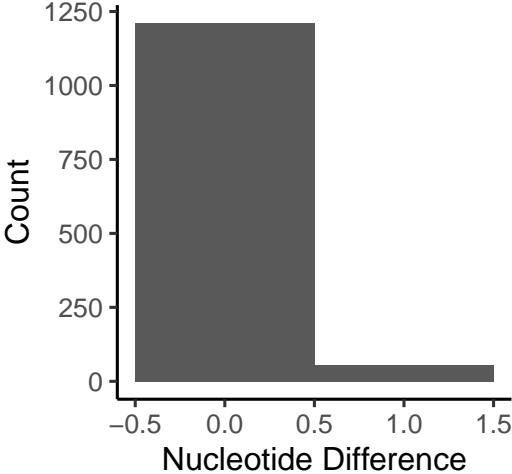
TRBV5-6*ap01

1095 sequences assigned
1083 (98.9%) exact matches, in which:
1065 unique CDR3
13 unique J



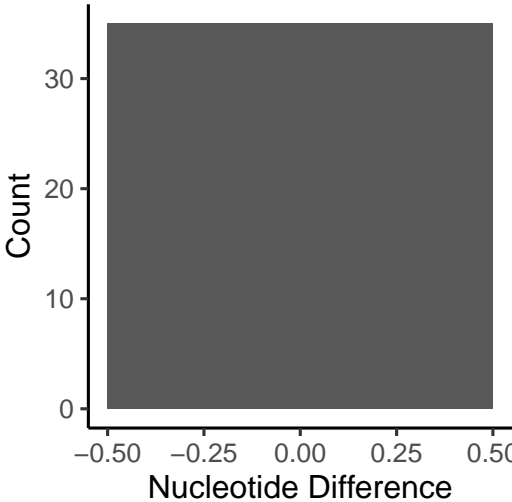
TRBV6-1*ap01

1266 sequences assigned
1211 (95.7%) exact matches, in which:
1198 unique CDR3
13 unique J



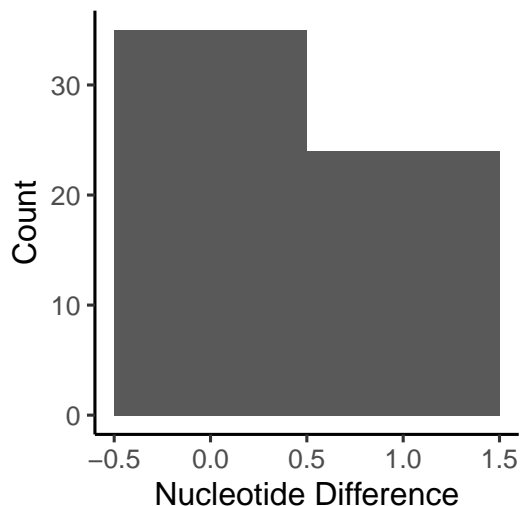
TRBV6-8*ap01

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



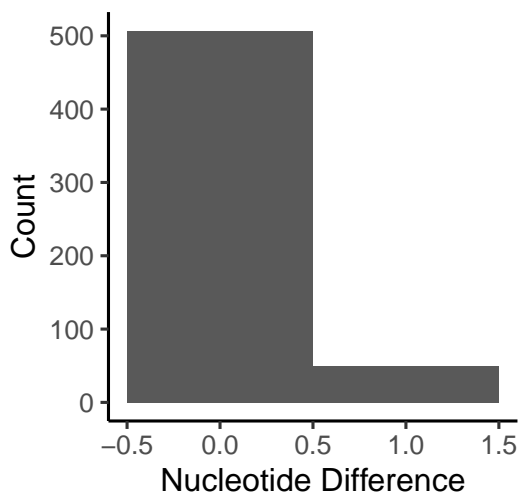
TRBV6-9*ap01

59 sequences assigned
35 (59.3%) exact matches, in which:
34 unique CDR3
9 unique J



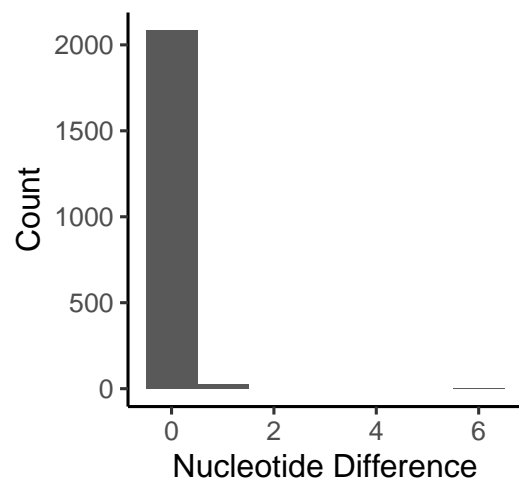
TRBV6-56*ap02

557 sequences assigned
507 (91%) exact matches, in which:
498 unique CDR3
13 unique J



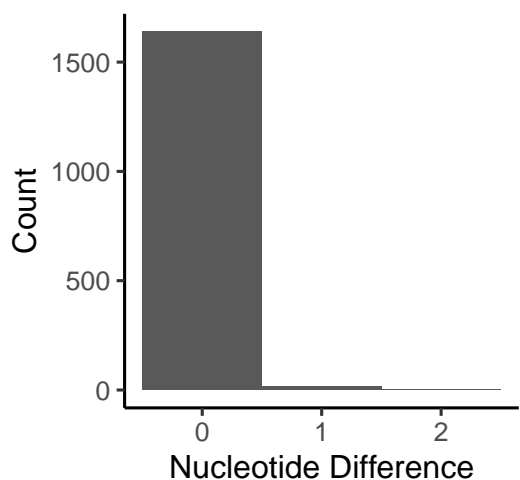
TRBV7-2*ap01

2109 sequences assigned
2084 (98.8%) exact matches, in which:
2039 unique CDR3
13 unique J



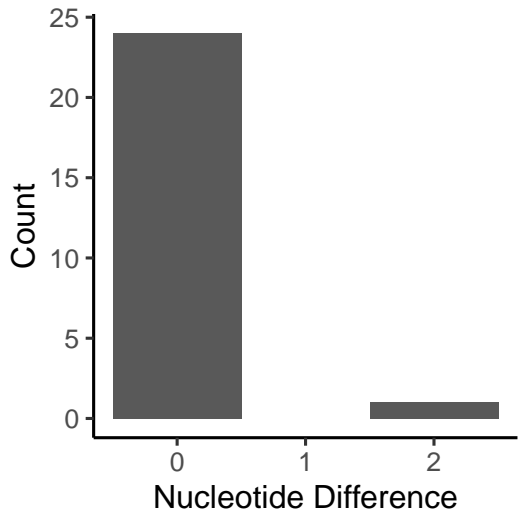
TRBV6-23*ap01

1658 sequences assigned
1639 (98.9%) exact matches, in which:
1618 unique CDR3
13 unique J



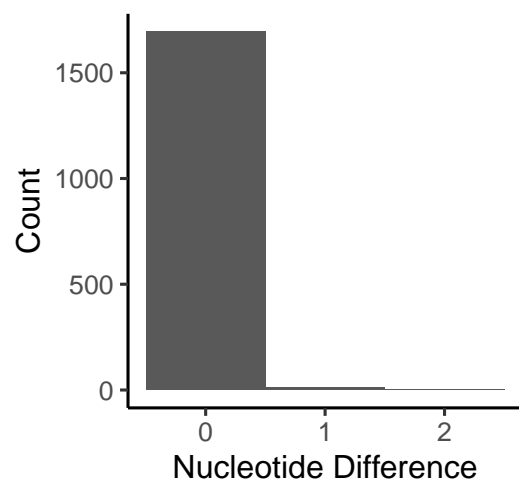
TRBV7-1*ap01_G291C_T

25 sequences assigned
24 (96%) exact matches, in which:
24 unique CDR3
9 unique J



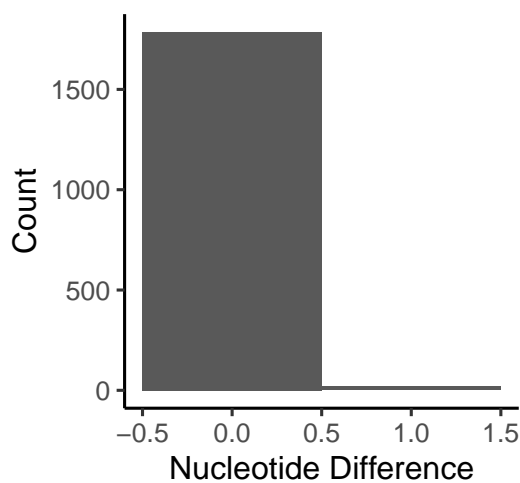
TRBV7-3*ap01

1707 sequences assigned
1694 (99.2%) exact matches, in which:
1657 unique CDR3
13 unique J



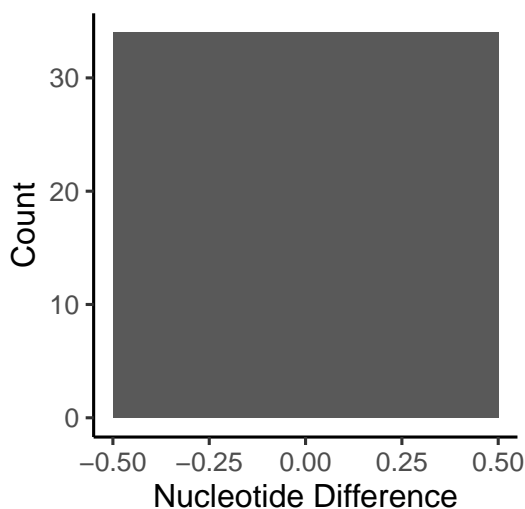
TRBV6-56*ap01

1805 sequences assigned
1786 (98.9%) exact matches, in which:
1760 unique CDR3
13 unique J



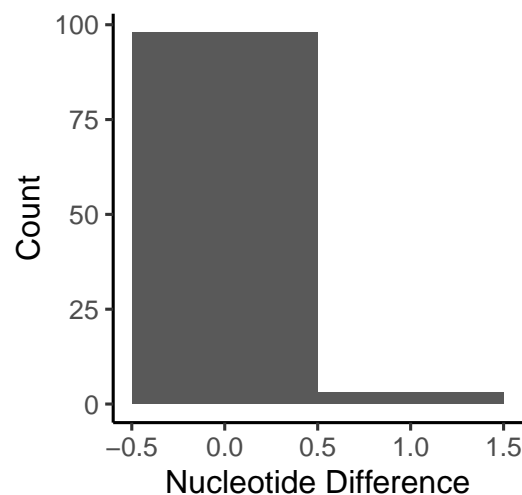
TRBV7-1*ap01_G291C_T

34 sequences assigned
34 (100%) exact matches, in which:
33 unique CDR3
10 unique J



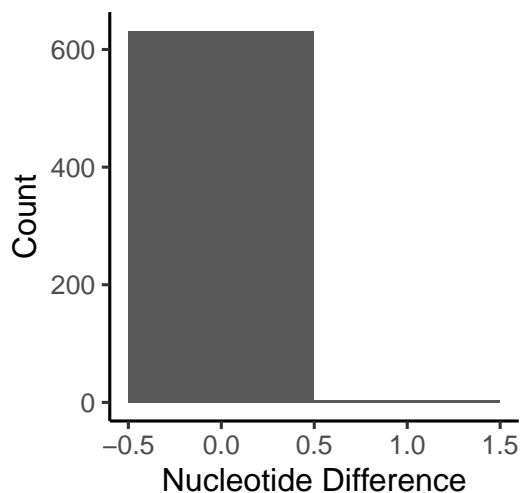
TRBV7-4*ap01

101 sequences assigned
98 (97%) exact matches, in which:
95 unique CDR3
12 unique J



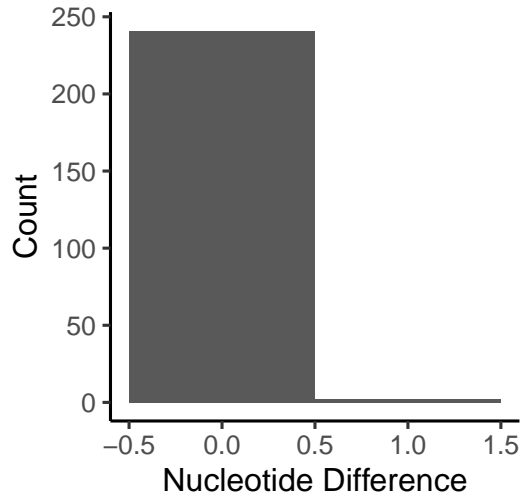
TRBV7-6*ap01

636 sequences assigned
632 (99.4%) exact matches, in which:
621 unique CDR3
13 unique J



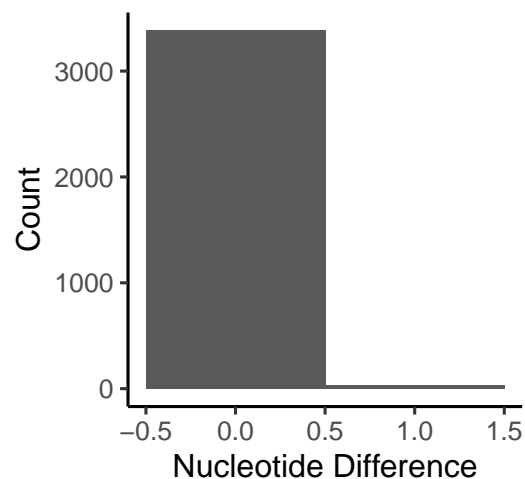
TRBV7-8*ap01

243 sequences assigned
241 (99.2%) exact matches, in which:
236 unique CDR3
13 unique J



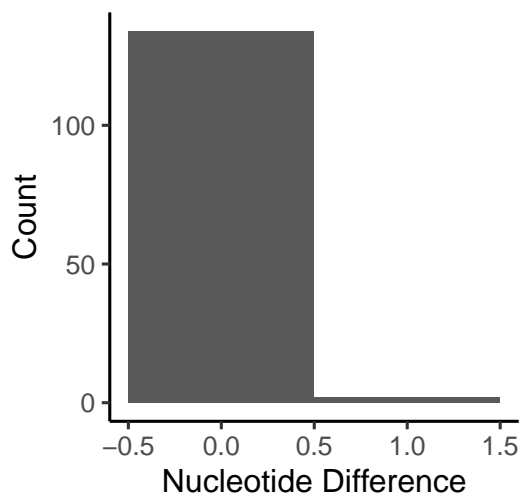
TRBV7-9*ap01

3415 sequences assigned
3384 (99.1%) exact matches, in which:
3326 unique CDR3
13 unique J



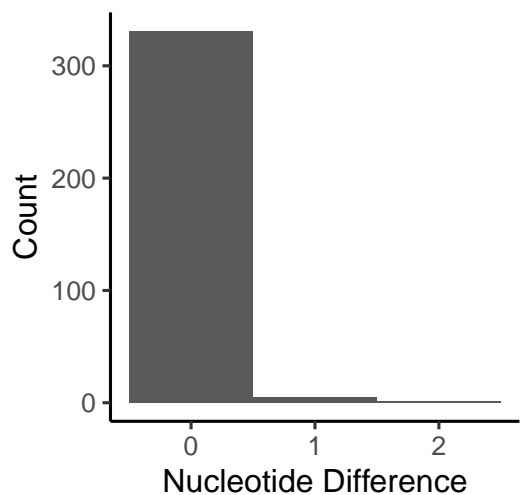
TRBV7-7*ap01

136 sequences assigned
134 (98.5%) exact matches, in which:
130 unique CDR3
12 unique J



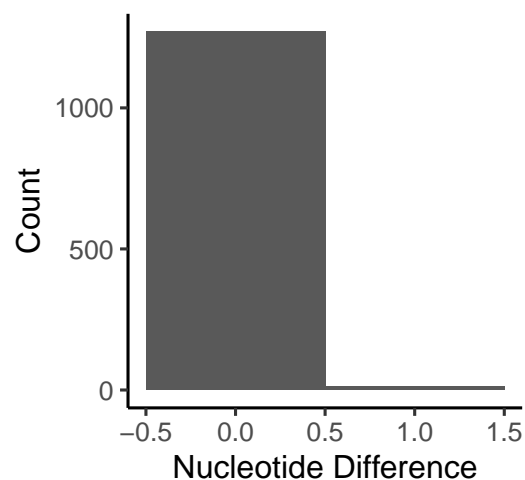
TRBV7-8*ap02

337 sequences assigned
331 (98.2%) exact matches, in which:
320 unique CDR3
13 unique J



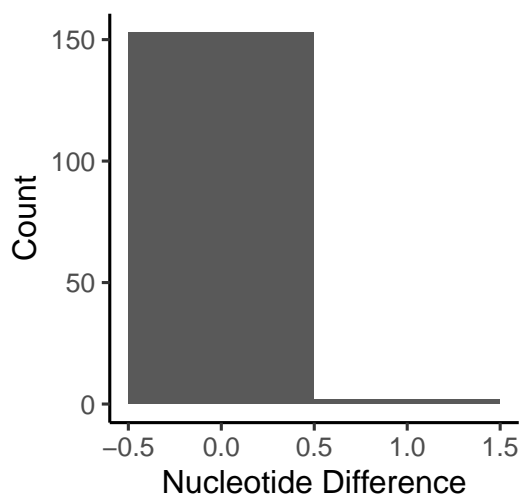
TRBV29-1*ap01

1283 sequences assigned
1270 (99%) exact matches, in which:
1256 unique CDR3
13 unique J



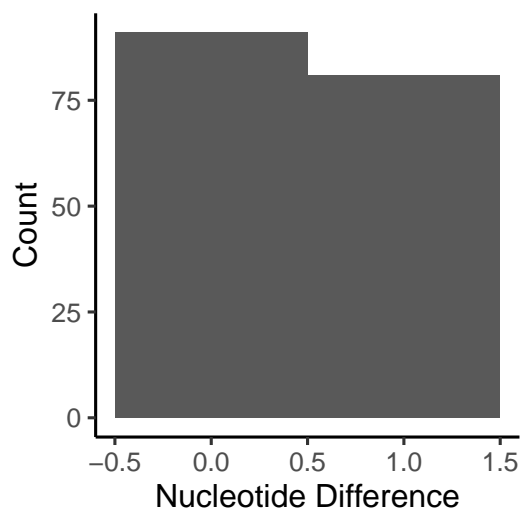
TRBV7-7*ap01_C315T

155 sequences assigned
153 (98.7%) exact matches, in which:
151 unique CDR3
12 unique J



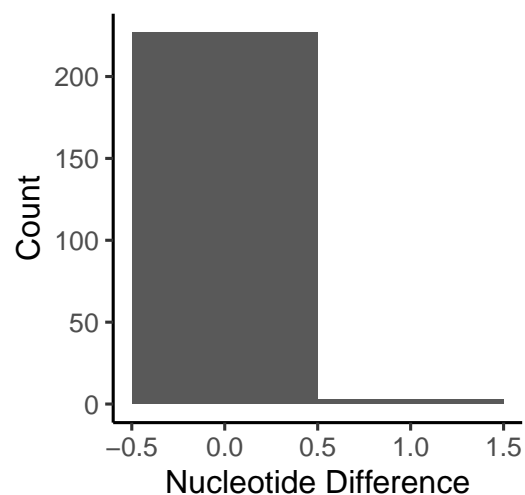
TRBV7-8*ap03

172 sequences assigned
91 (52.9%) exact matches, in which:
86 unique CDR3
10 unique J

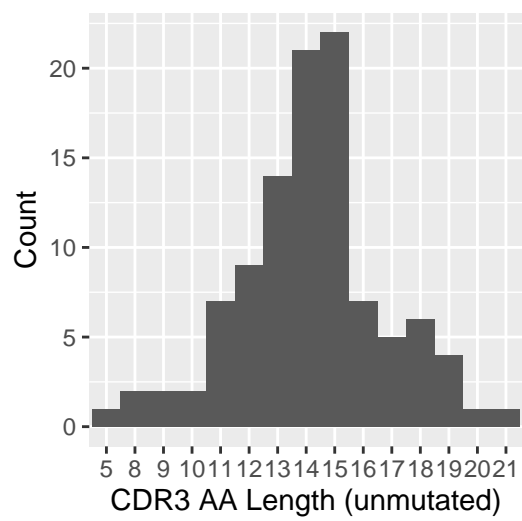


TRBV29-1*ap02

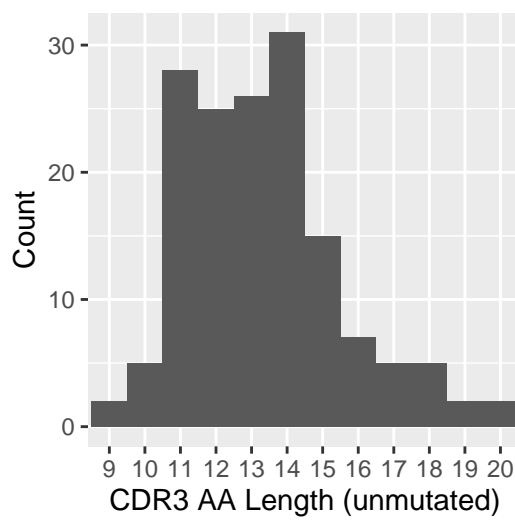
230 sequences assigned
227 (98.7%) exact matches, in which:
223 unique CDR3
13 unique J



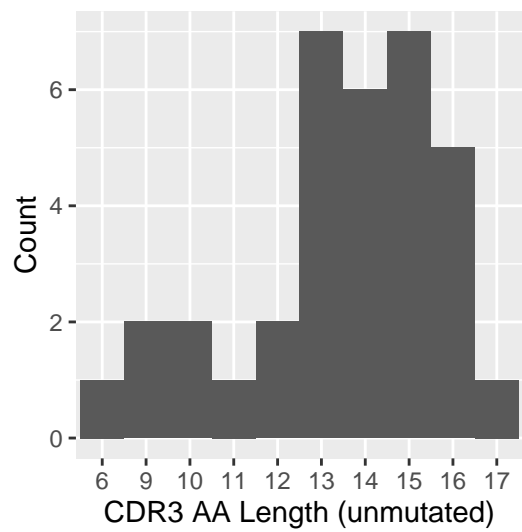
TRBV12-2*ap01_G301A



TRBV7-7*ap01_C315T



TRBV7-1*ap01_G291C_T296C_C314T



TRBV7-1*ap01_G291C_T296C

