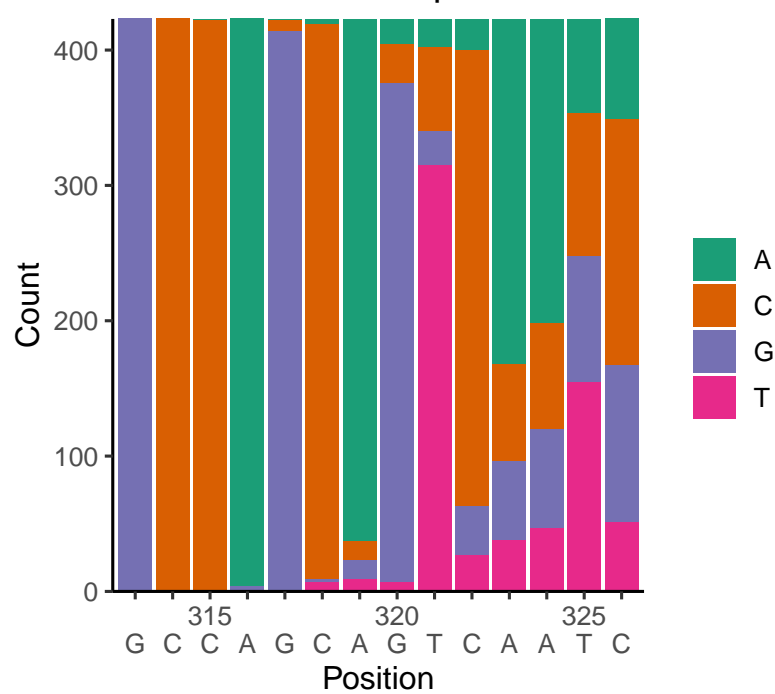
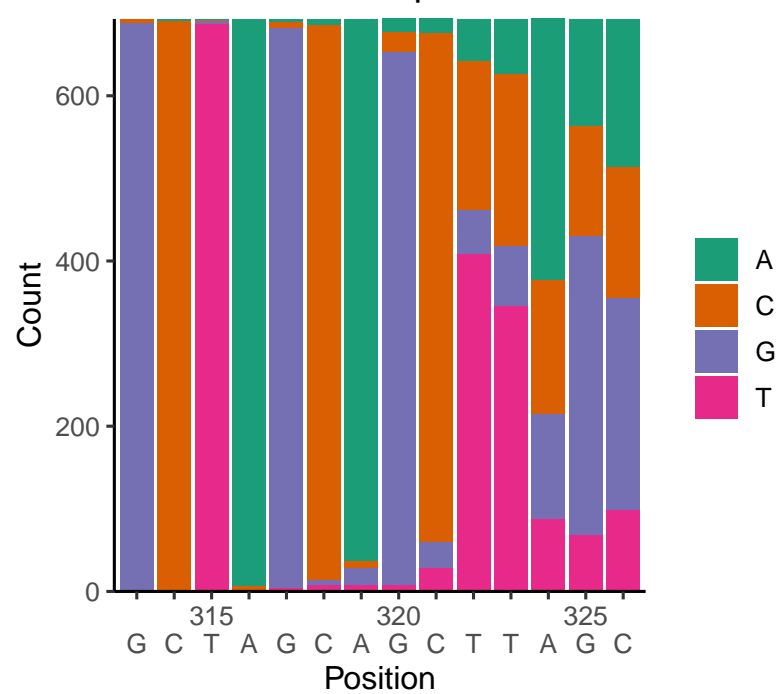


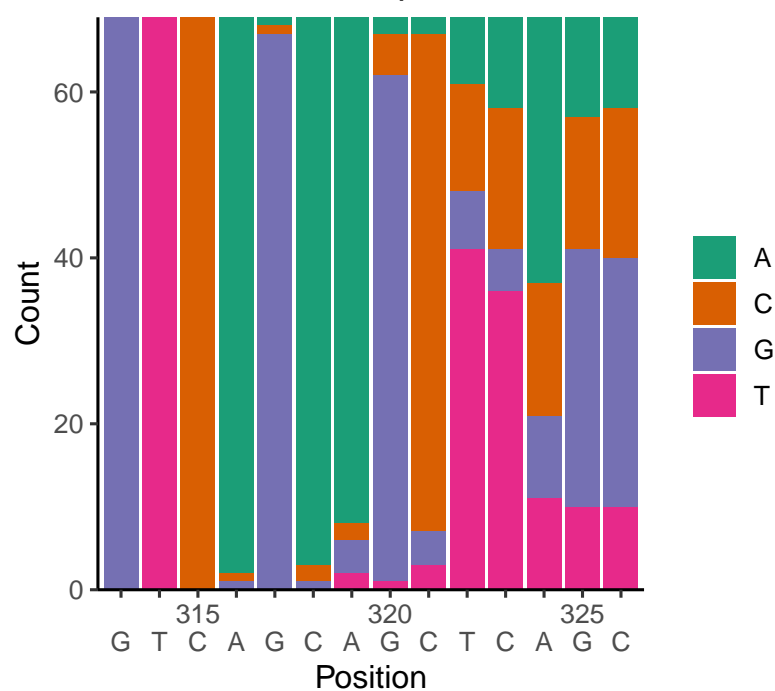
Gene TRBV23-1*ap01_T304C



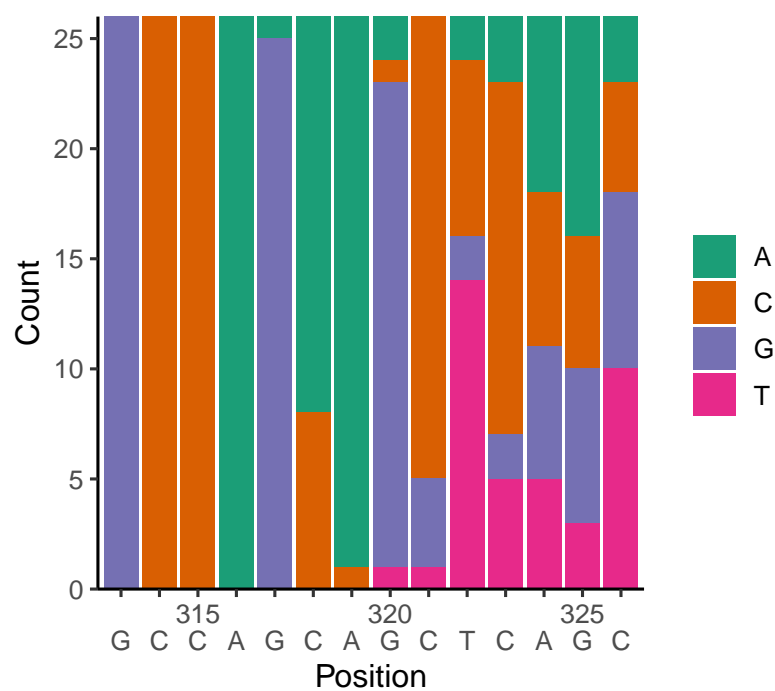
Gene TRBV7-7*ap01_C315T



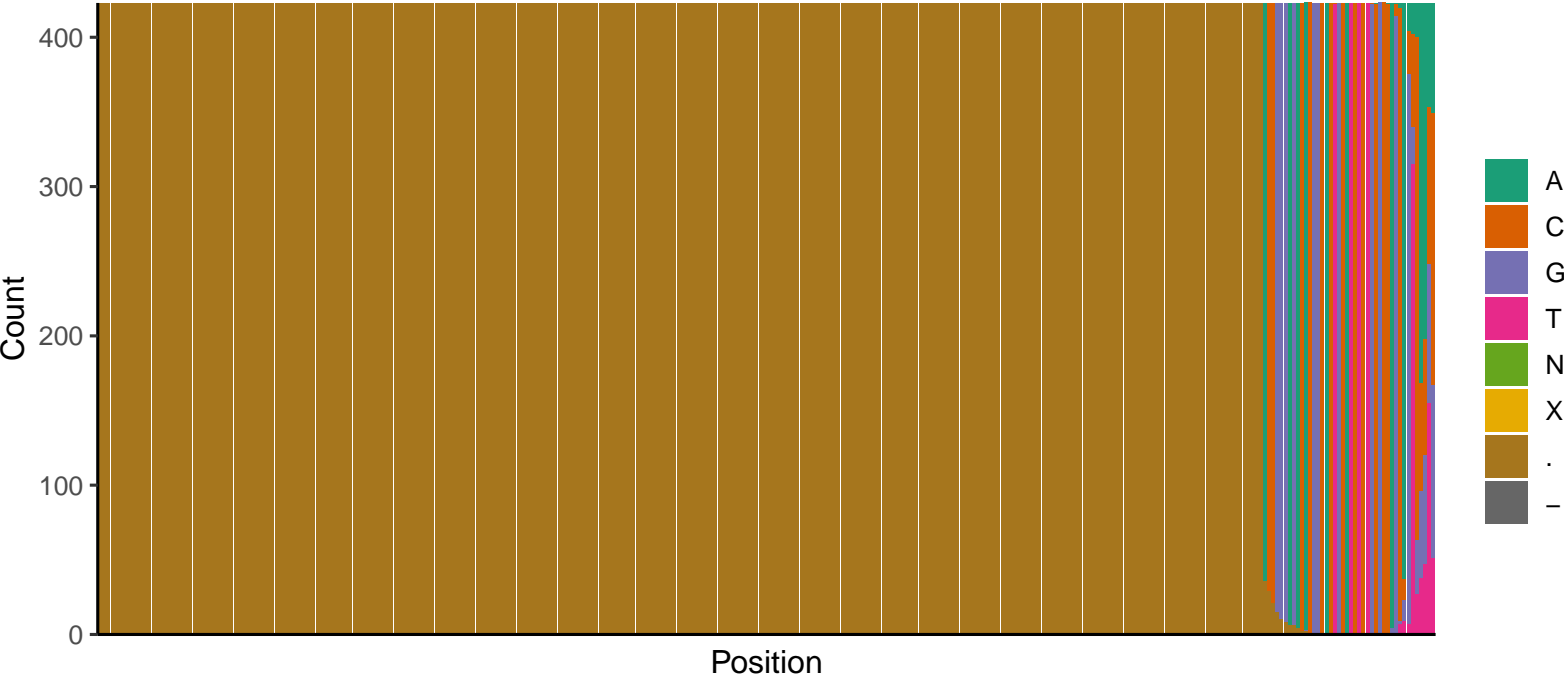
Gene TRBV7-1*ap01_T296C_C314T



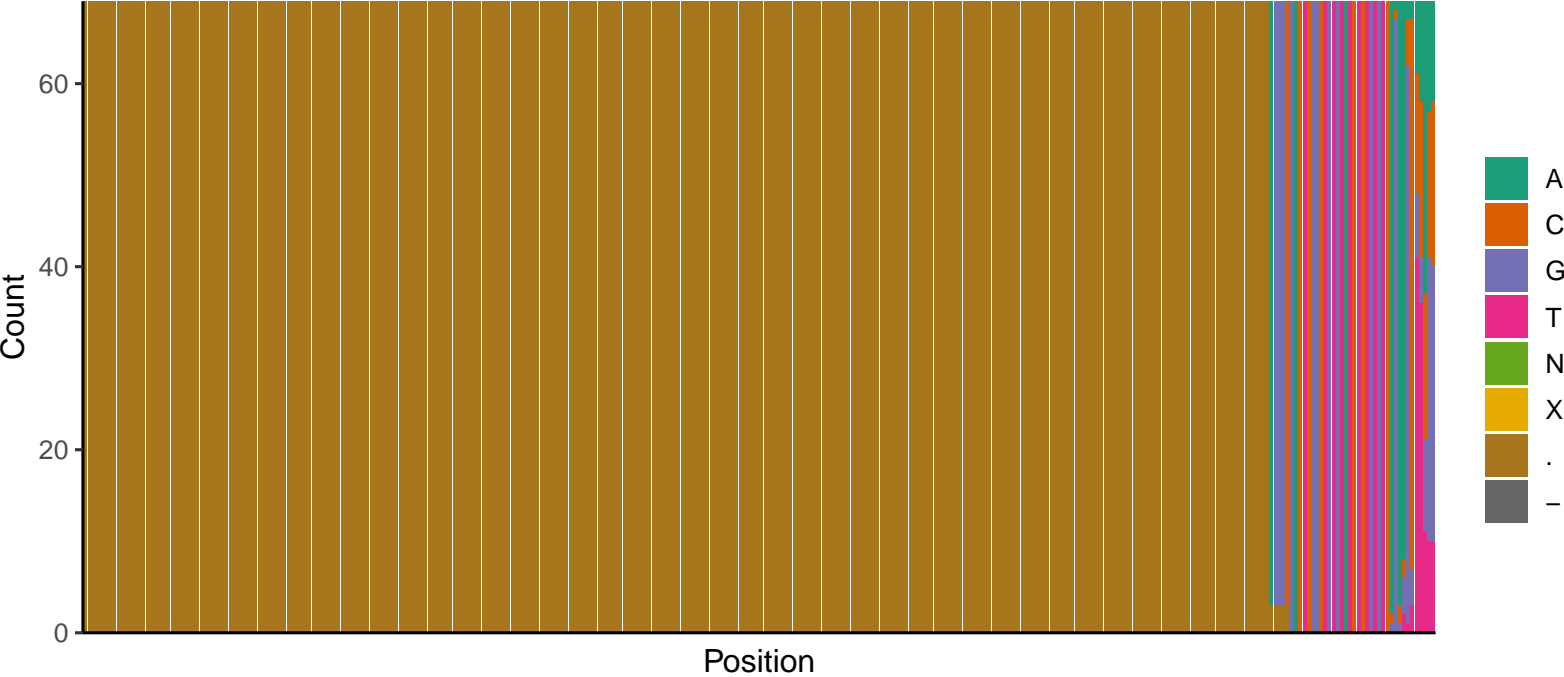
Gene TRBV7-1*ap01_T296C



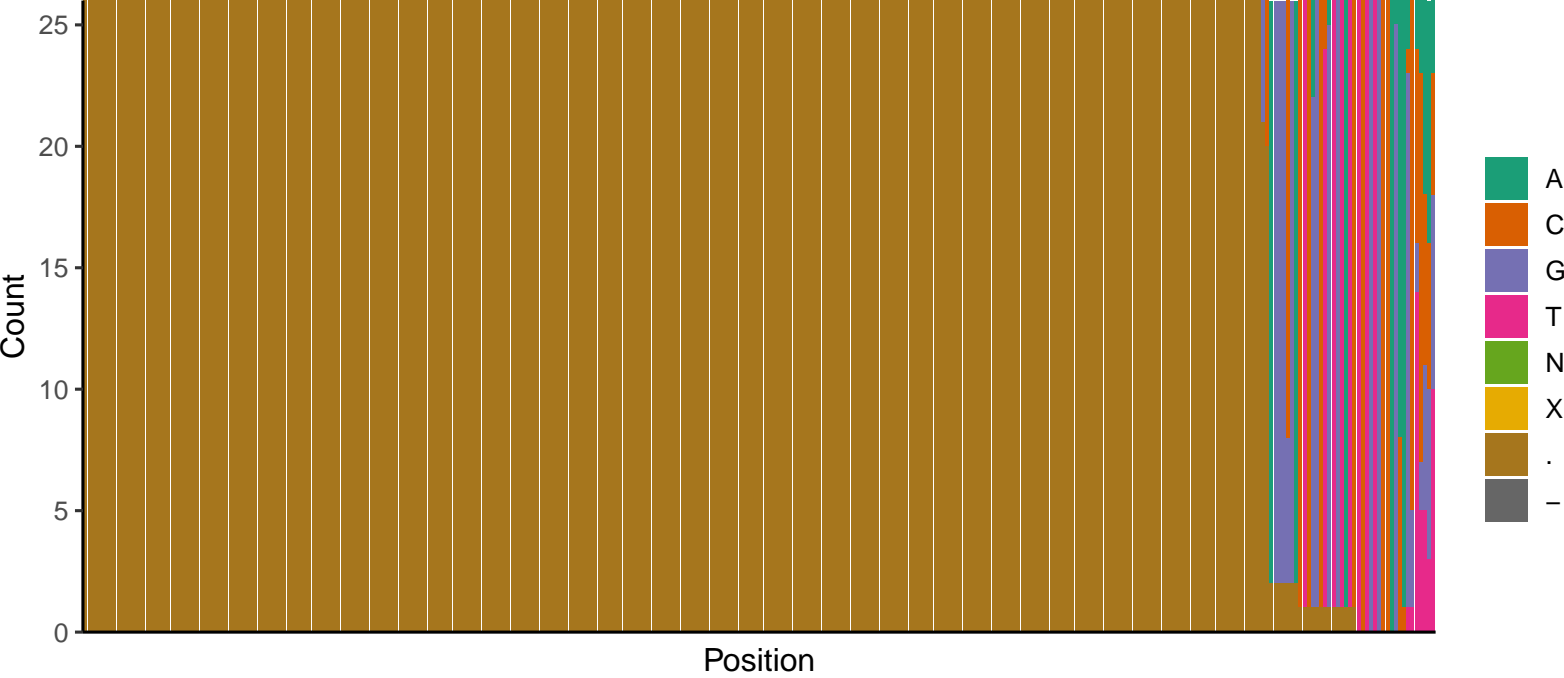
Gene TRBV23-1*ap01_T304C



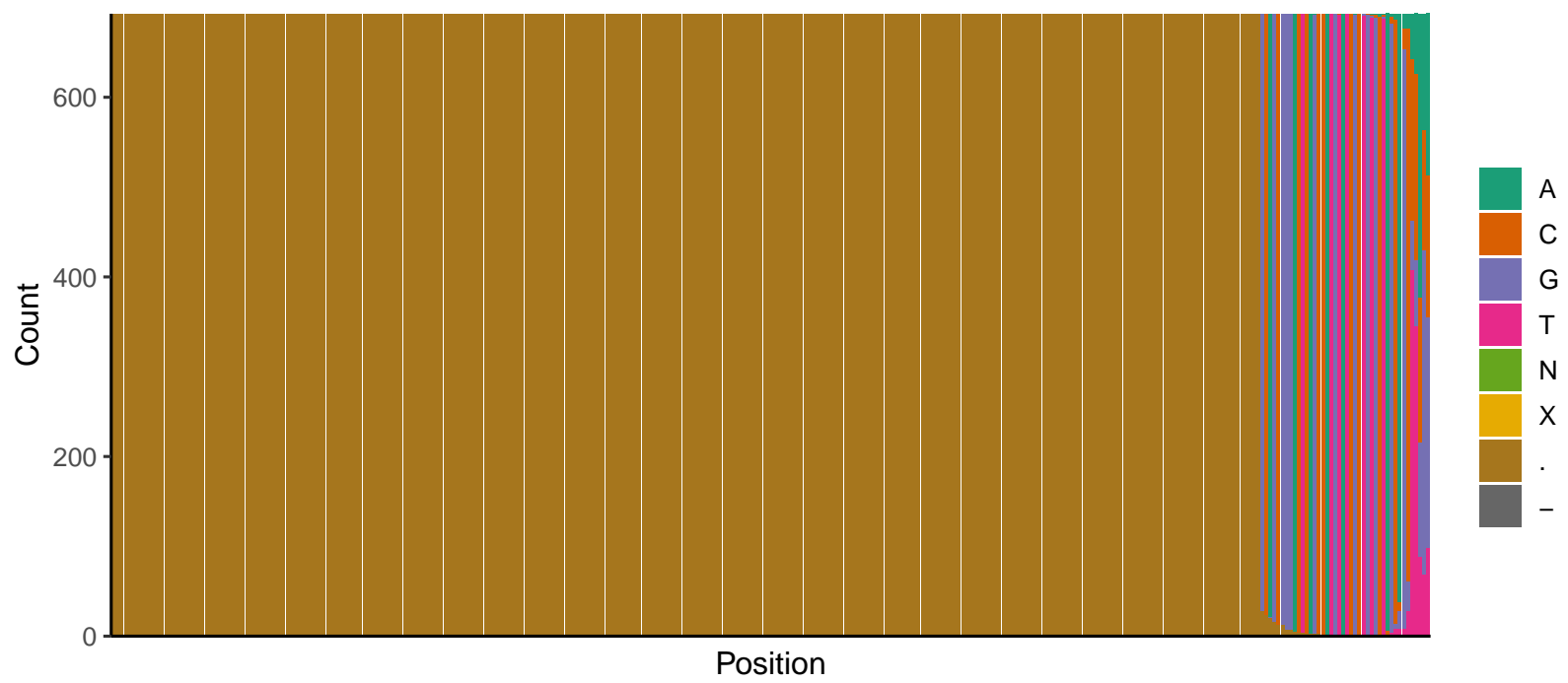
Gene TRBV7-1*ap01_T296C_C314T



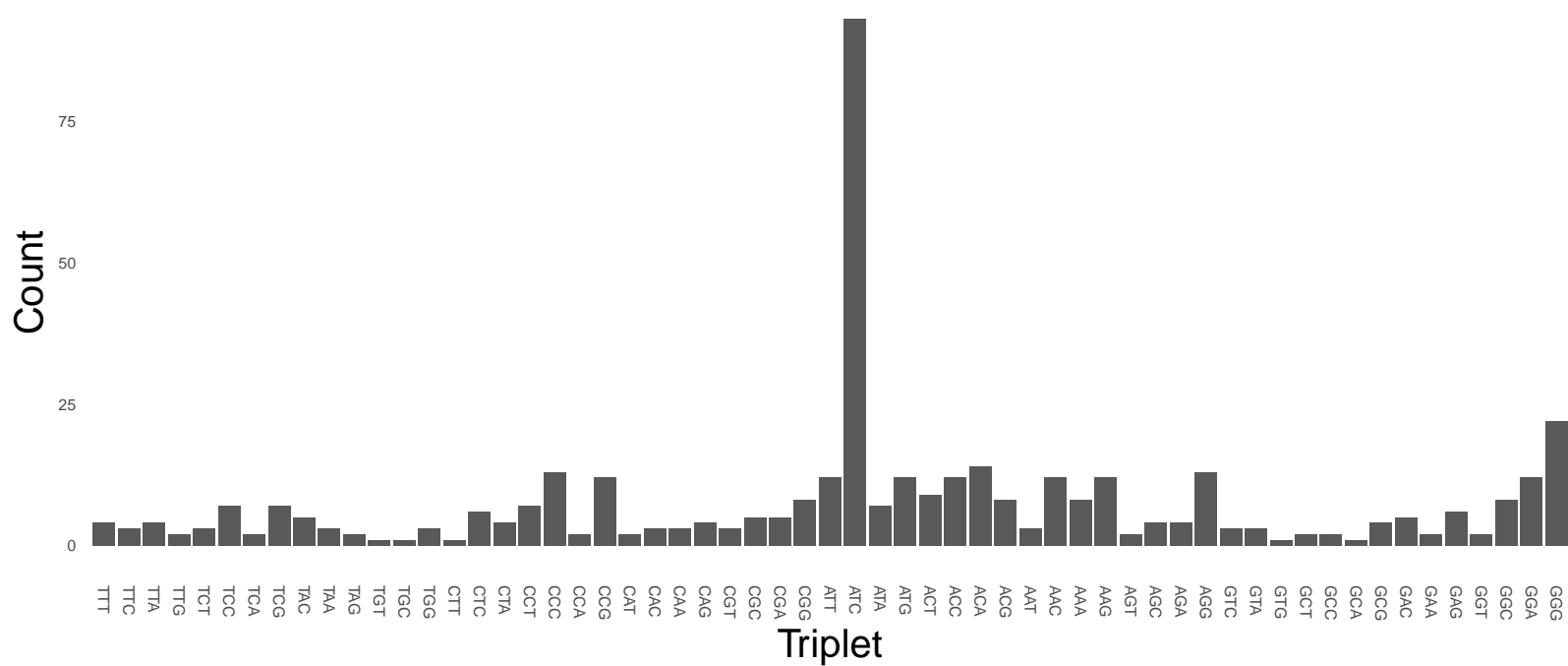
Gene TRBV7-1*ap01_T296C



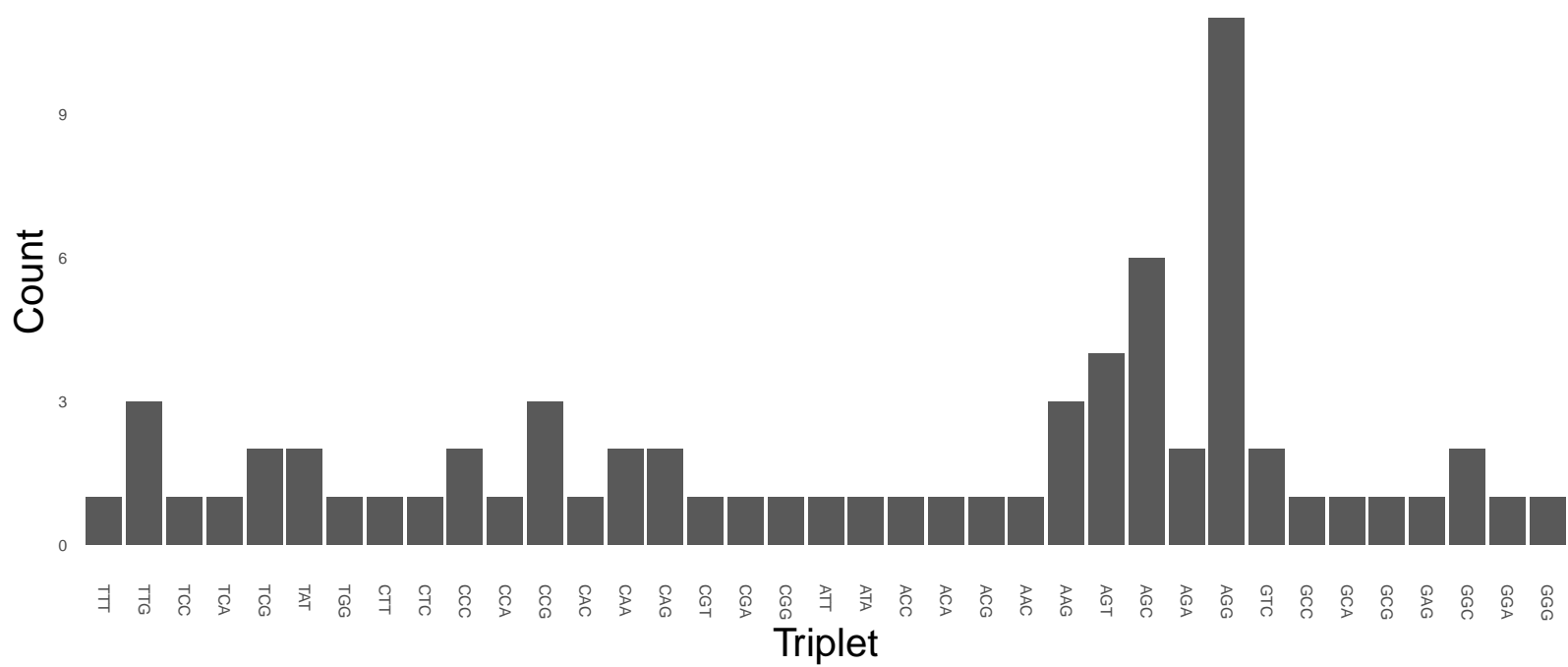
Gene TRBV7-7*ap01_C315T



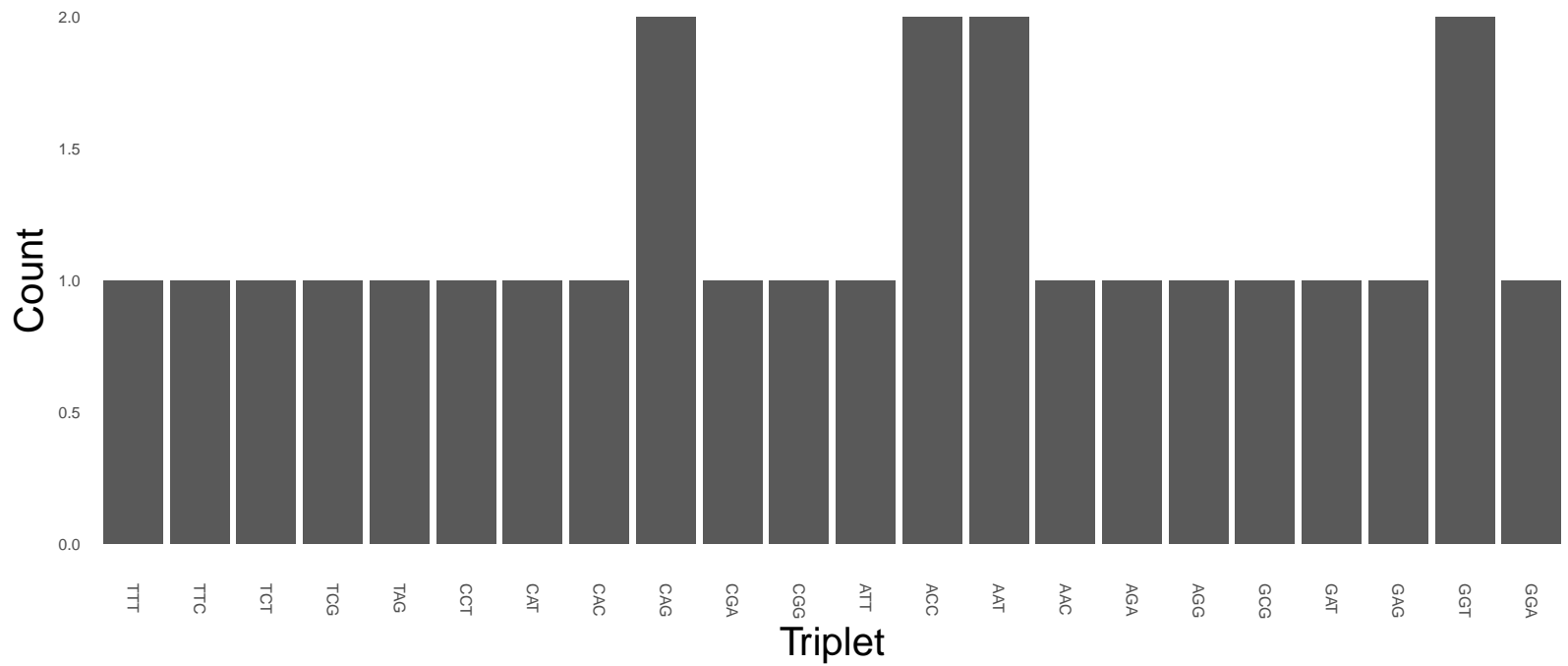
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



TRBV7-1*ap01_T296C_C314T- Final 3 nucleotides as a triplet

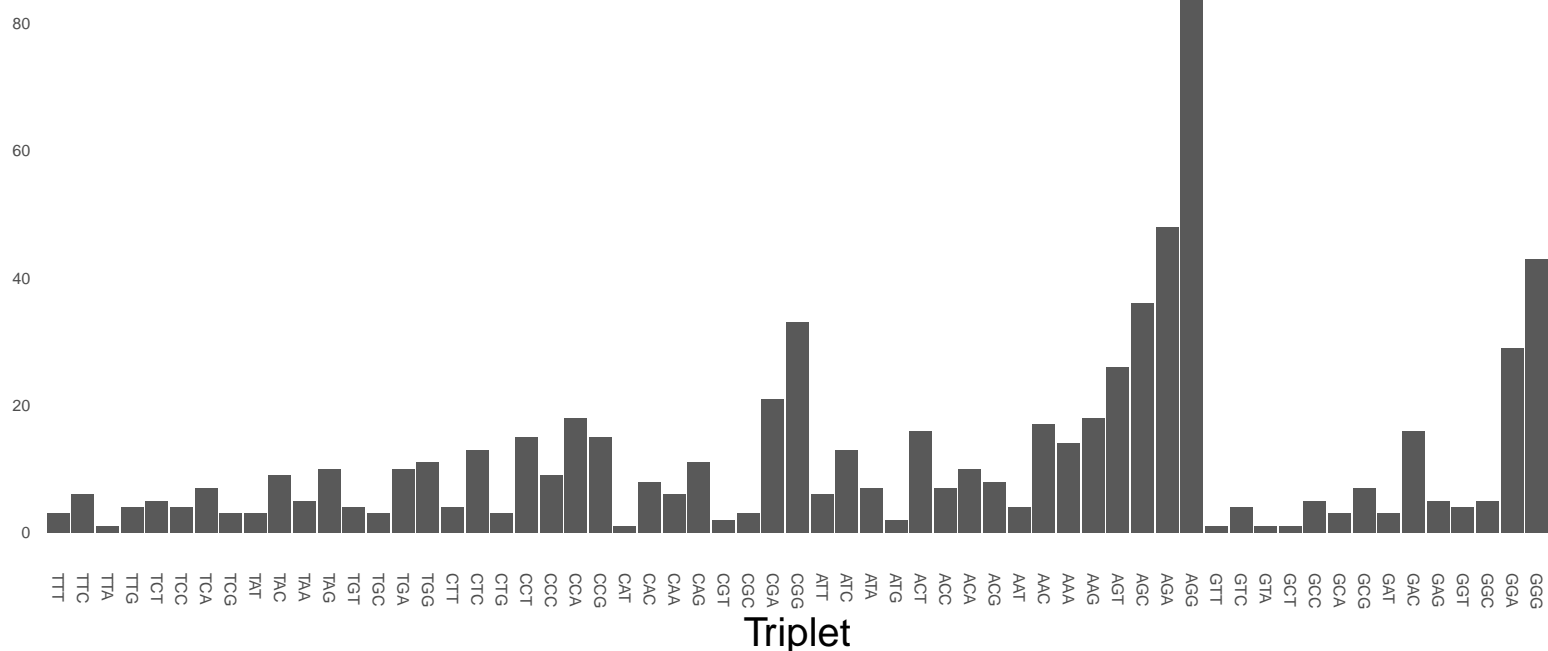


TRBV7-1*ap01_T296C- Final 3 nucleotides as a triplet



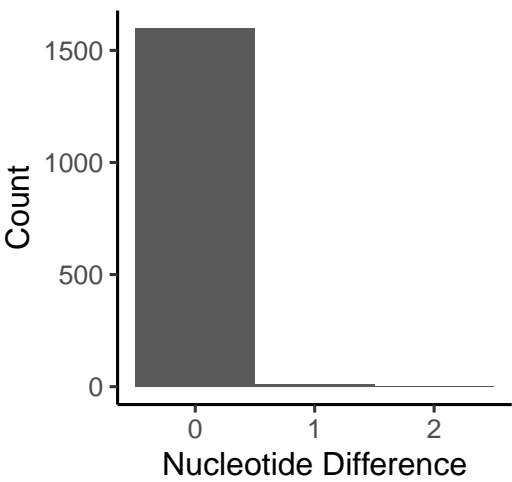
TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet

Count



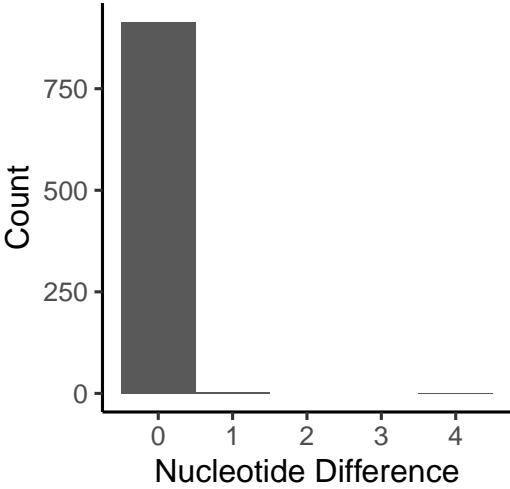
TRBV10-1*ap01

1611 sequences assigned
1598 (99.2%) exact matches, in which:
1591 unique CDR3
13 unique J



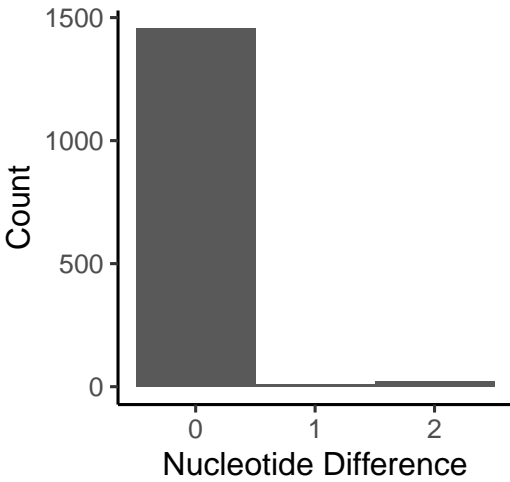
TRBV10-2*ap01

919 sequences assigned
915 (99.6%) exact matches, in which:
909 unique CDR3
13 unique J



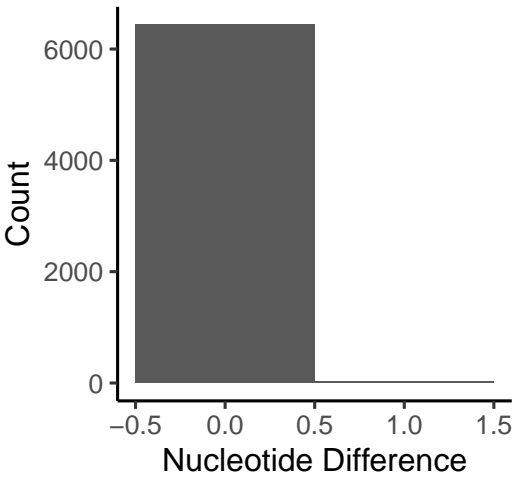
TRBV13*ap01

1489 sequences assigned
1456 (97.8%) exact matches, in which:
1447 unique CDR3
13 unique J



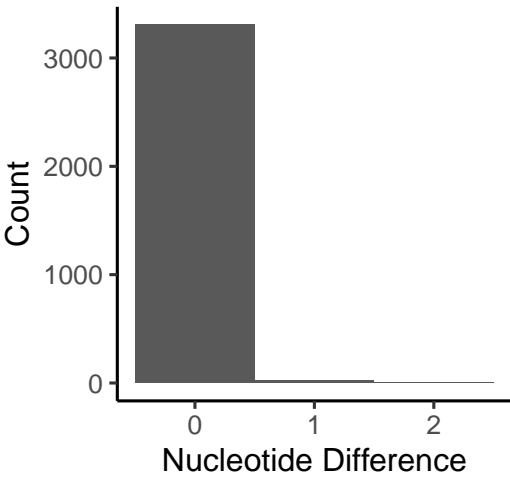
TRBV20-1*ap01

6467 sequences assigned
6437 (99.5%) exact matches, in which:
6406 unique CDR3
13 unique J



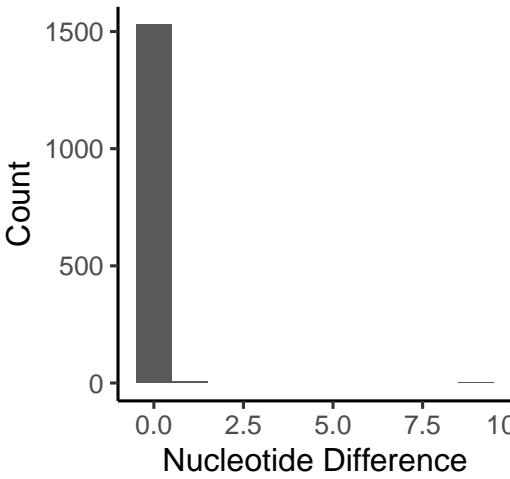
TRBV10-3*ap01

3327 sequences assigned
3307 (99.4%) exact matches, in which:
3282 unique CDR3
13 unique J



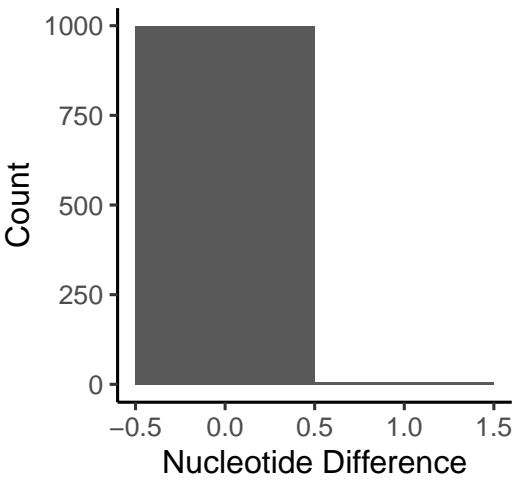
TRBV14*ap01

1537 sequences assigned
1529 (99.5%) exact matches, in which:
1525 unique CDR3
13 unique J



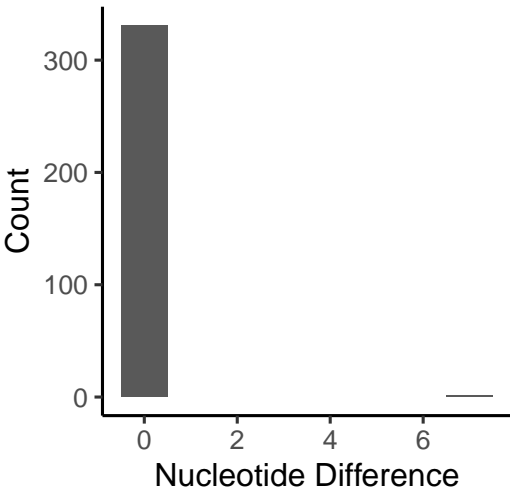
TRBV20-1*ap02

1005 sequences assigned
999 (99.4%) exact matches, in which:
994 unique CDR3
13 unique J



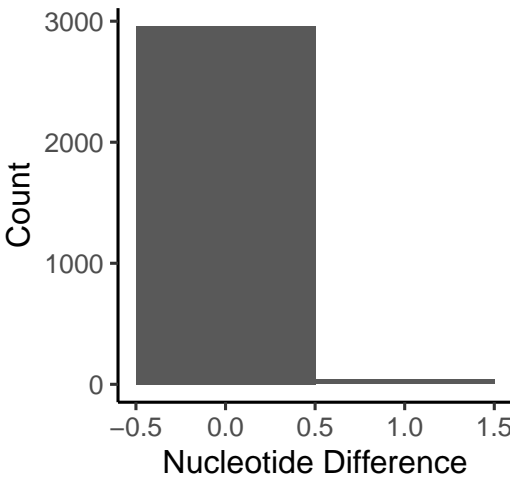
TRBV1*ap01

332 sequences assigned
331 (99.7%) exact matches, in which:
326 unique CDR3
13 unique J



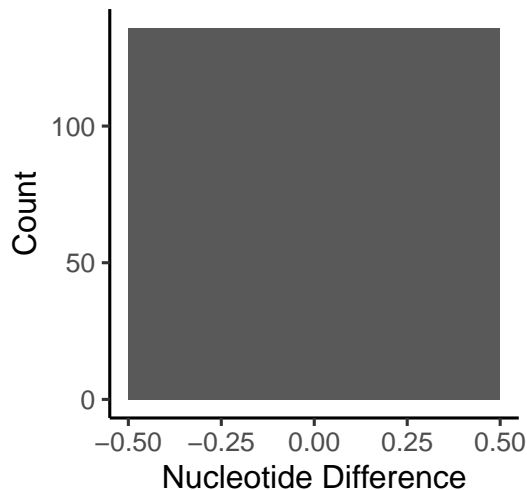
TRBV15*ap02

3001 sequences assigned
2960 (98.6%) exact matches, in which:
2951 unique CDR3
13 unique J



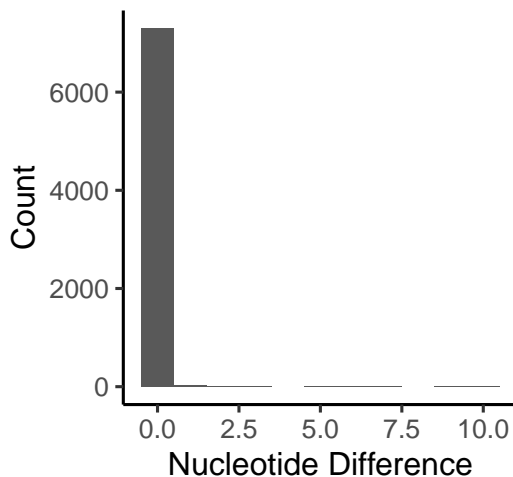
TRBV16*ap01

136 sequences assigned
136 (100%) exact matches, in which:
136 unique CDR3
12 unique J



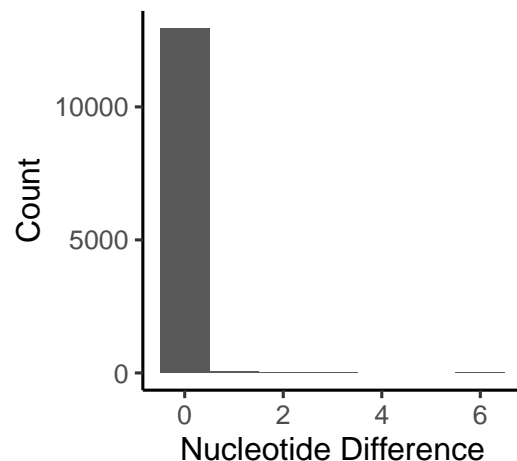
TRBV19*ap01

7343 sequences assigned
7298 (99.4%) exact matches, in which:
7285 unique CDR3
13 unique J



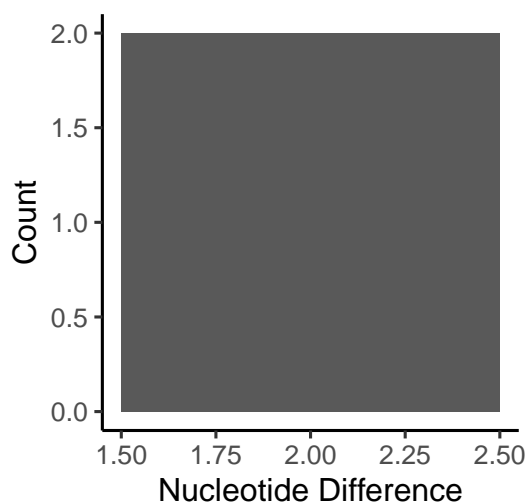
TRBV28*ap01

13029 sequences assigned
12959 (99.5%) exact matches, in which:
12911 unique CDR3
13 unique J



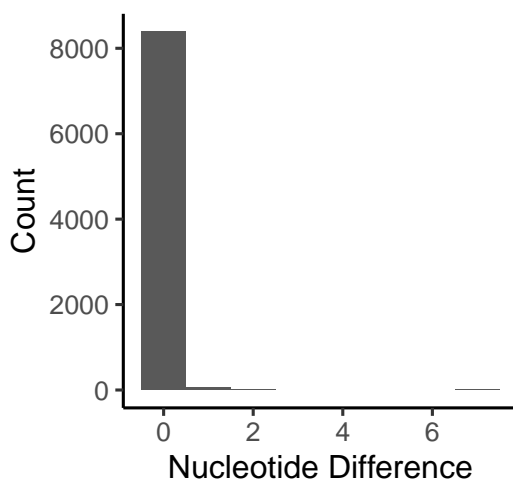
TRBV17*ap01

2 sequences assigned
No exact matches.



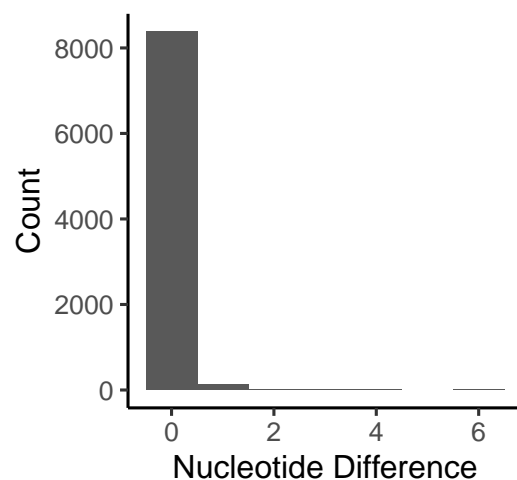
TRBV2*ap01

8446 sequences assigned
8388 (99.3%) exact matches, in which:
8355 unique CDR3
13 unique J



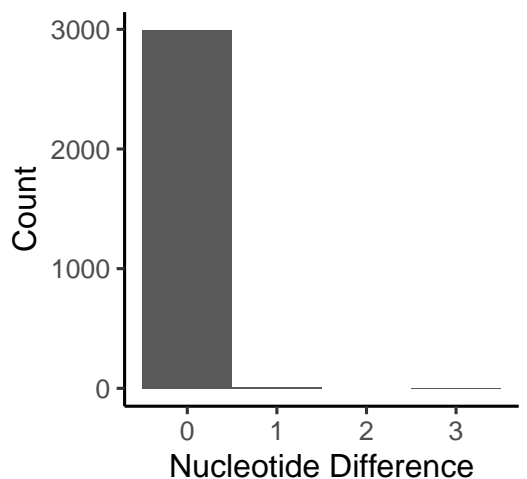
TRBV30*ap01

8515 sequences assigned
8379 (98.4%) exact matches, in which:
8246 unique CDR3
13 unique J



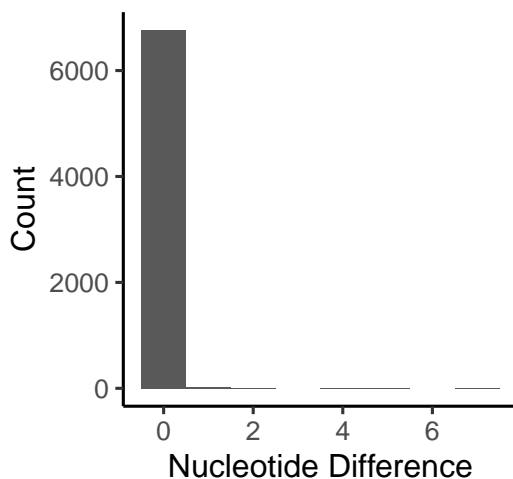
TRBV18*ap01

3005 sequences assigned
2994 (99.6%) exact matches, in which:
2990 unique CDR3
13 unique J



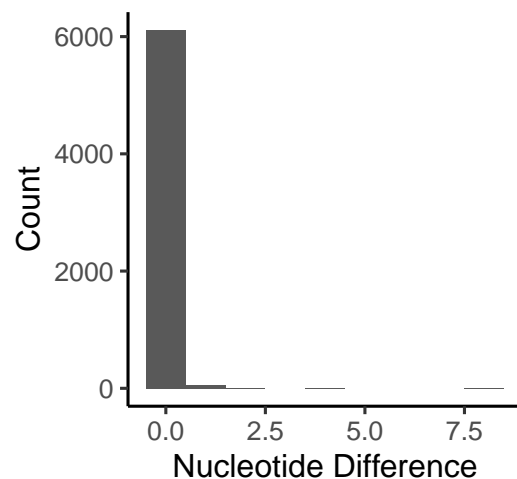
TRBV27*ap01

6803 sequences assigned
6765 (99.4%) exact matches, in which:
6747 unique CDR3
13 unique J



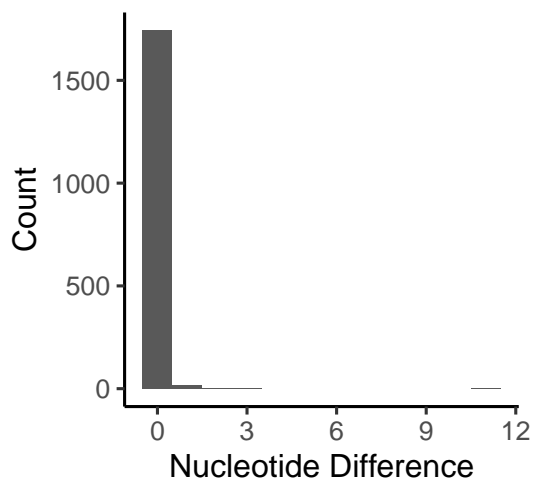
TRBV9*ap01

6170 sequences assigned
6112 (99.1%) exact matches, in which:
6094 unique CDR3
13 unique J



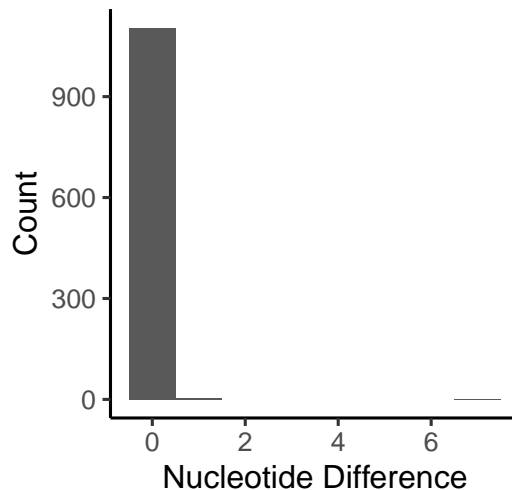
TRBV21-1*ap01

1764 sequences assigned
1743 (98.8%) exact matches, in which:
1742 unique CDR3
13 unique J



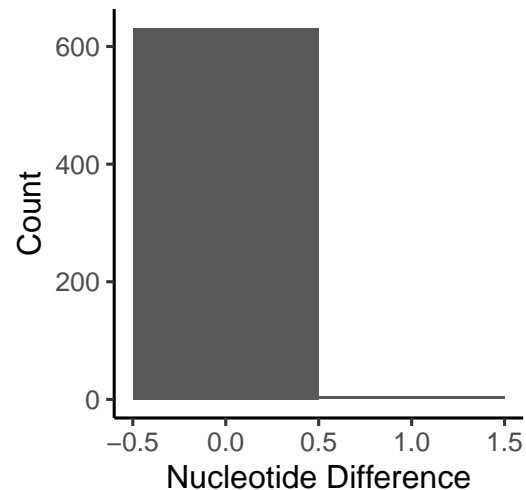
TRBV11-3*ap01

1110 sequences assigned
1105 (99.5%) exact matches, in which:
1103 unique CDR3
13 unique J



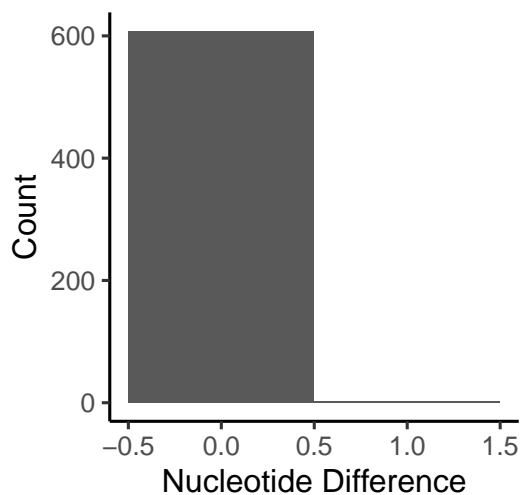
TRBV12-5*ap01

637 sequences assigned
632 (99.2%) exact matches, in which:
631 unique CDR3
13 unique J



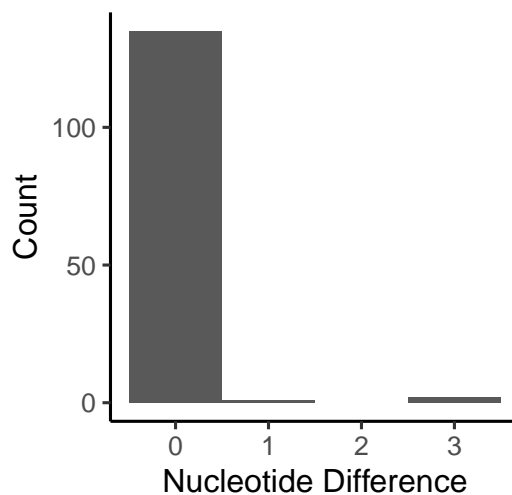
TRBV11-1*ap01

610 sequences assigned
608 (99.7%) exact matches, in which:
608 unique CDR3
13 unique J



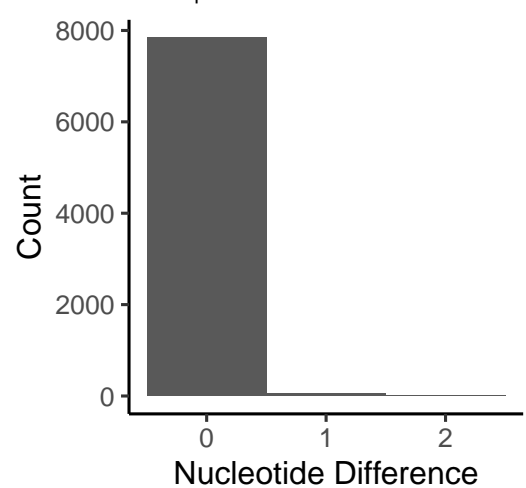
TRBV12-1*ap01

138 sequences assigned
135 (97.8%) exact matches, in which:
135 unique CDR3
12 unique J



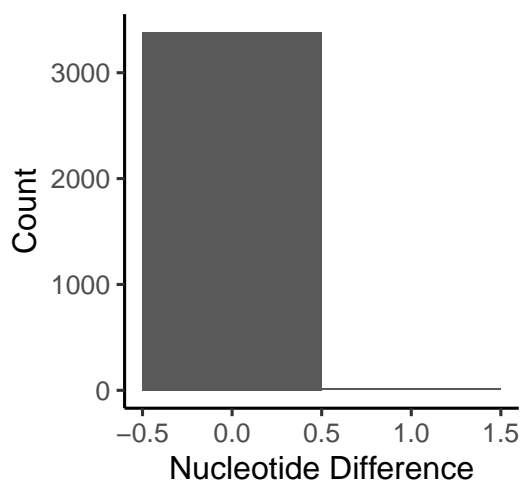
TRBV12-34*ap01

7904 sequences assigned
7841 (99.2%) exact matches, in which:
7804 unique CDR3
13 unique J



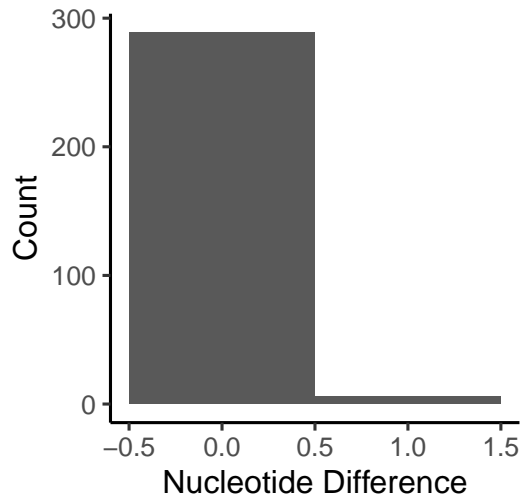
TRBV11-2*ap01

3402 sequences assigned
3384 (99.5%) exact matches, in which:
3369 unique CDR3
13 unique J



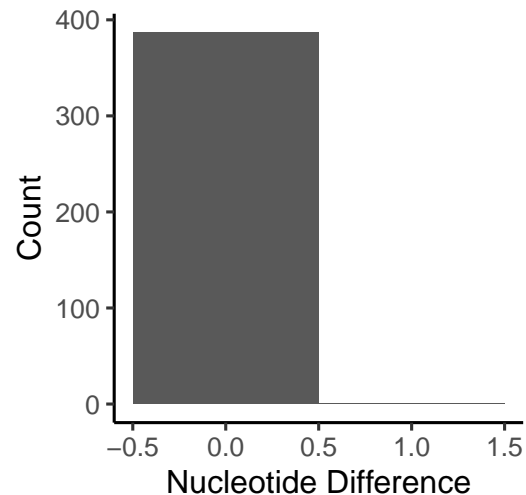
TRBV12-2*ap01

295 sequences assigned
289 (98%) exact matches, in which:
288 unique CDR3
13 unique J



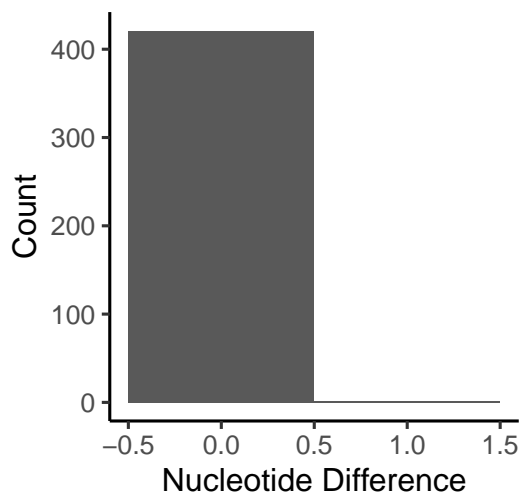
TRBV23-1*ap01

388 sequences assigned
387 (99.7%) exact matches, in which:
386 unique CDR3
13 unique J



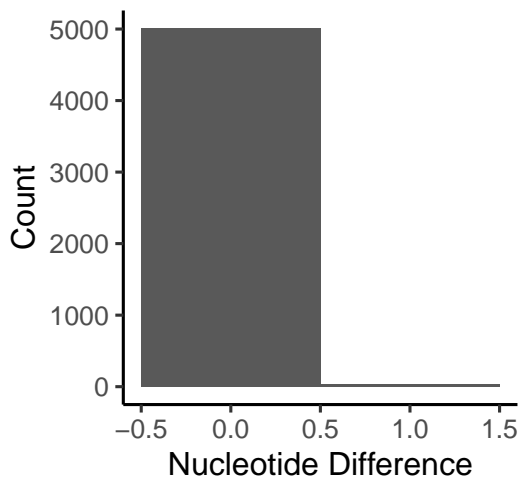
TRBV23–1*ap01_T304C

423 sequences assigned
421 (99.5%) exact matches, in which:
421 unique CDR3
13 unique J



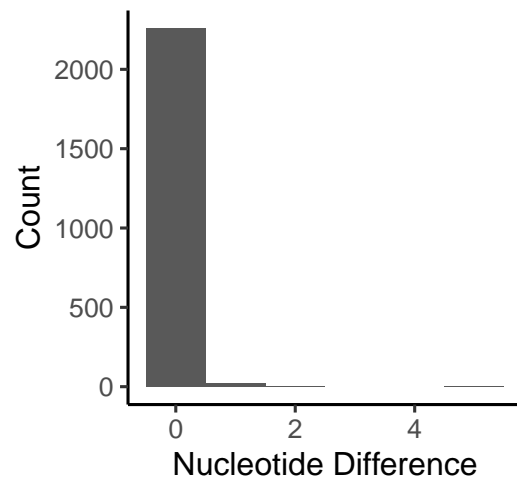
TRBV4–1*ap01

5041 sequences assigned
5009 (99.4%) exact matches, in which:
4973 unique CDR3
13 unique J



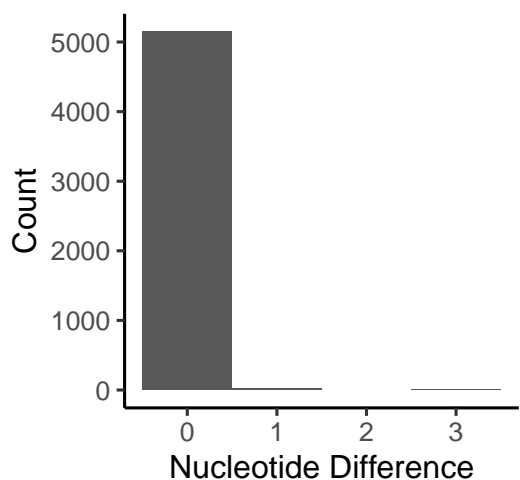
TRBV25–1*ap01

2288 sequences assigned
2258 (98.7%) exact matches, in which:
2237 unique CDR3
13 unique J



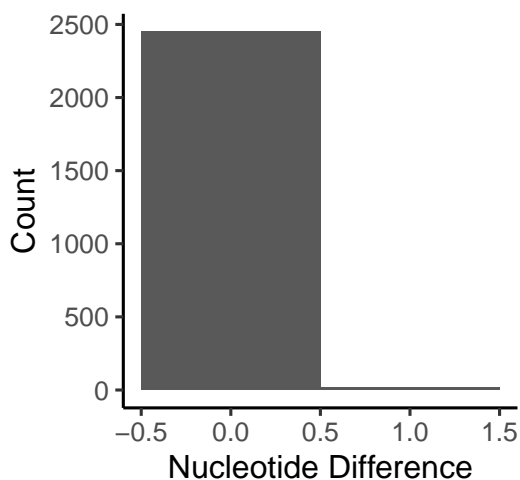
TRBV3–12*ap01

5173 sequences assigned
5148 (99.5%) exact matches, in which:
5136 unique CDR3
13 unique J



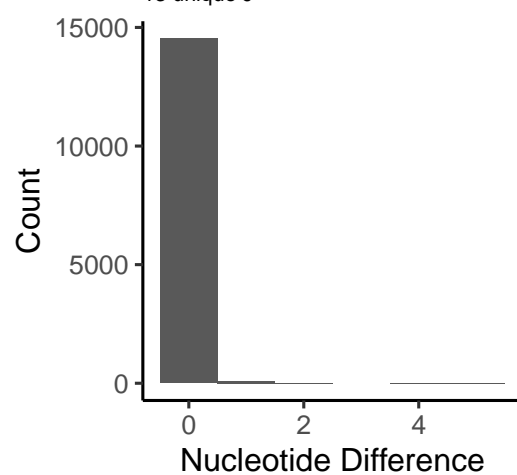
TRBV4–2*ap01

2468 sequences assigned
2450 (99.3%) exact matches, in which:
2439 unique CDR3
13 unique J



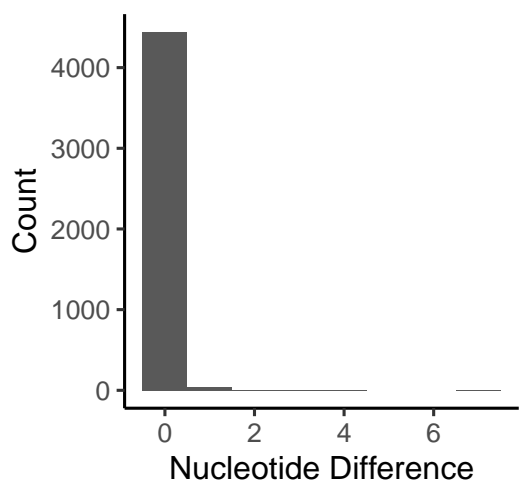
TRBV5–1*ap01

14638 sequences assigned
14535 (99.3%) exact matches, in which:
14451 unique CDR3
13 unique J



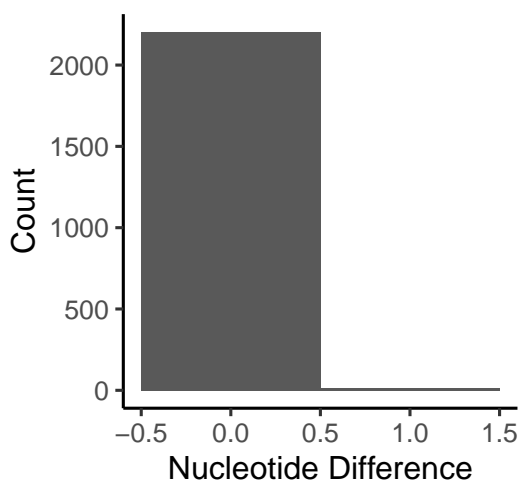
TRBV24–1*ap01

4490 sequences assigned
4441 (98.9%) exact matches, in which:
4414 unique CDR3
13 unique J



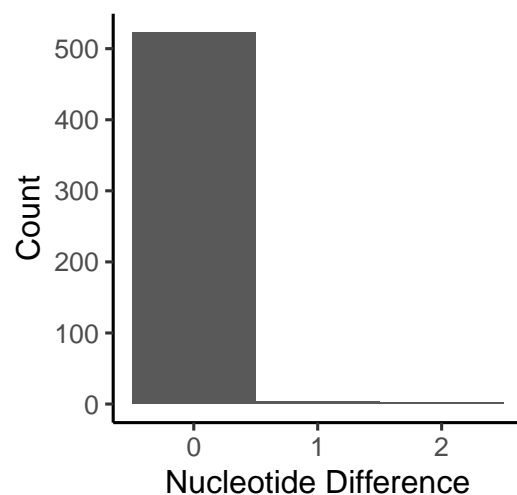
TRBV4–3*ap01

2217 sequences assigned
2203 (99.4%) exact matches, in which:
2185 unique CDR3
13 unique J



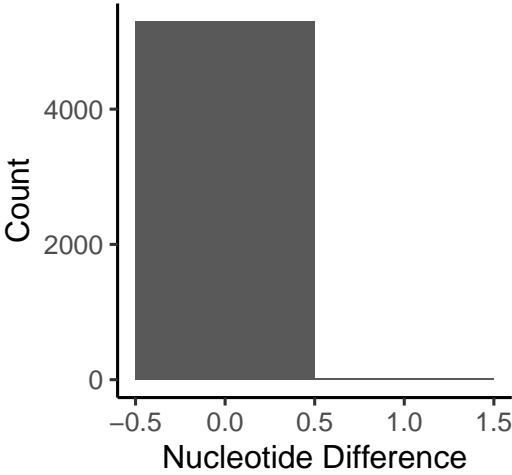
TRBV5–3*ap01

528 sequences assigned
523 (99.1%) exact matches, in which:
521 unique CDR3
13 unique J



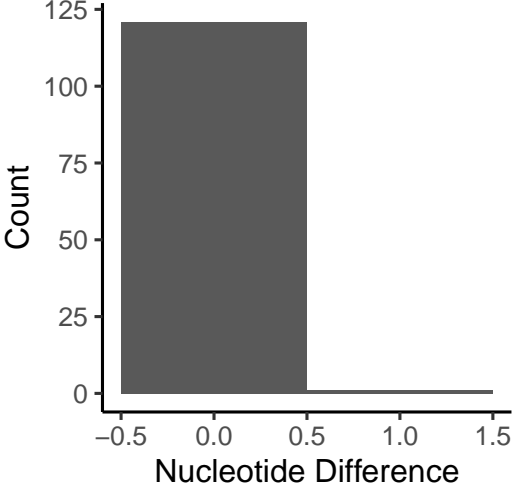
TRBV5-4*ap01

5324 sequences assigned
5297 (99.5%) exact matches, in which:
5267 unique CDR3
13 unique J



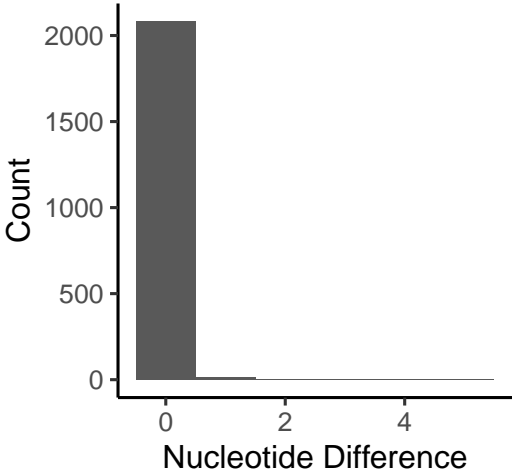
TRBV5-7*ap01

122 sequences assigned
121 (99.2%) exact matches, in which:
120 unique CDR3
13 unique J



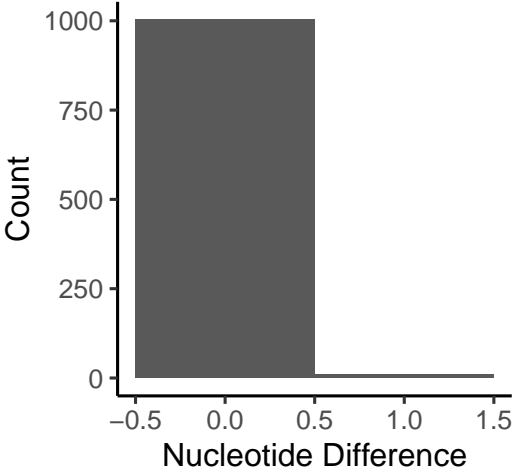
TRBV6-4*ap01

2104 sequences assigned
2082 (99%) exact matches, in which:
2069 unique CDR3
13 unique J



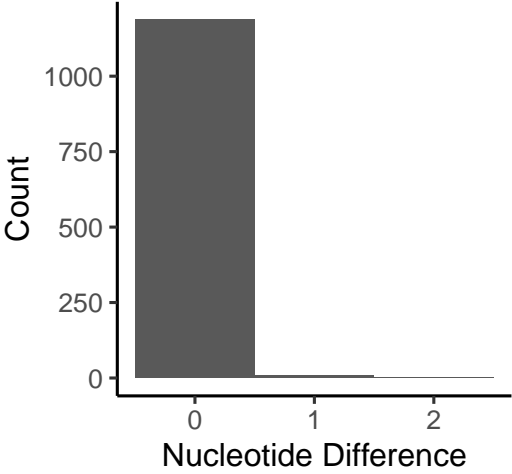
TRBV5-5*ap01

1013 sequences assigned
1003 (99%) exact matches, in which:
1002 unique CDR3
13 unique J



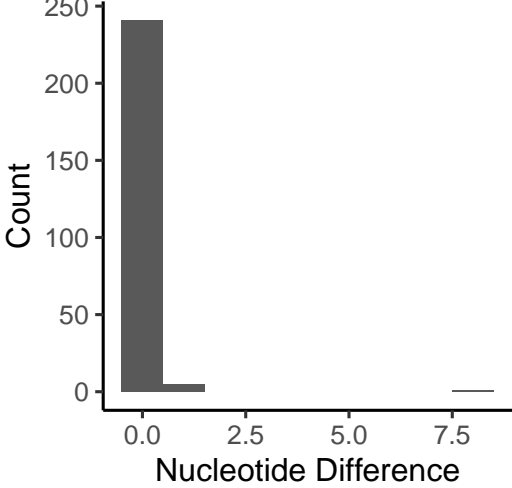
TRBV5-8*ap01

1197 sequences assigned
1187 (99.2%) exact matches, in which:
1181 unique CDR3
13 unique J



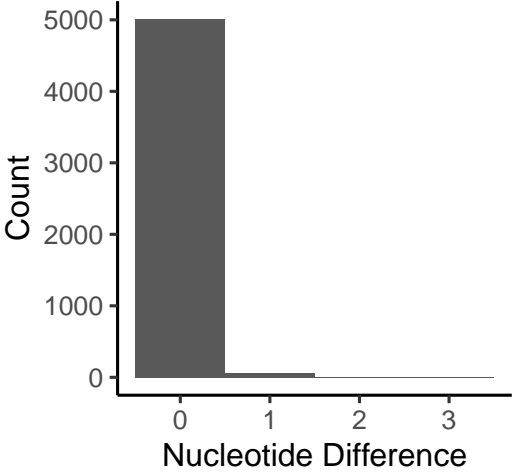
TRBV6-7*ap01

247 sequences assigned
241 (97.6%) exact matches, in which:
241 unique CDR3
13 unique J



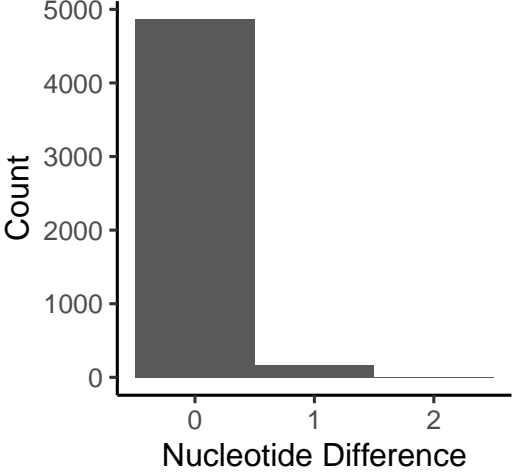
TRBV5-6*ap01

5077 sequences assigned
5011 (98.7%) exact matches, in which:
4962 unique CDR3
13 unique J



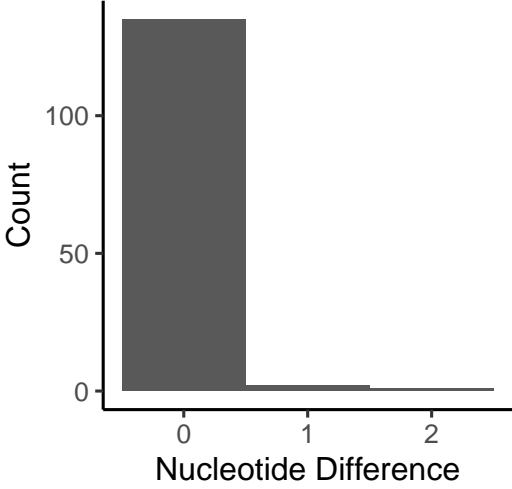
TRBV6-1*ap01

5039 sequences assigned
4868 (96.6%) exact matches, in which:
4841 unique CDR3
13 unique J



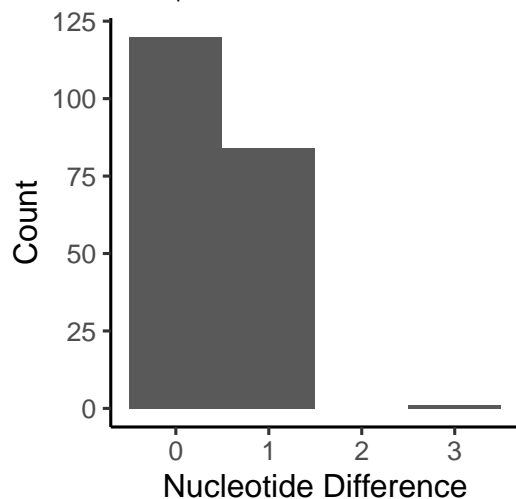
TRBV6-8*ap01

138 sequences assigned
135 (97.8%) exact matches, in which:
134 unique CDR3
13 unique J



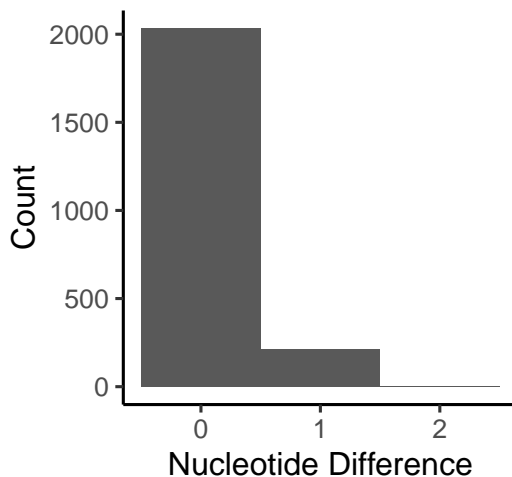
TRBV6-9*ap01

205 sequences assigned
120 (58.5%) exact matches, in which:
118 unique CDR3
13 unique J



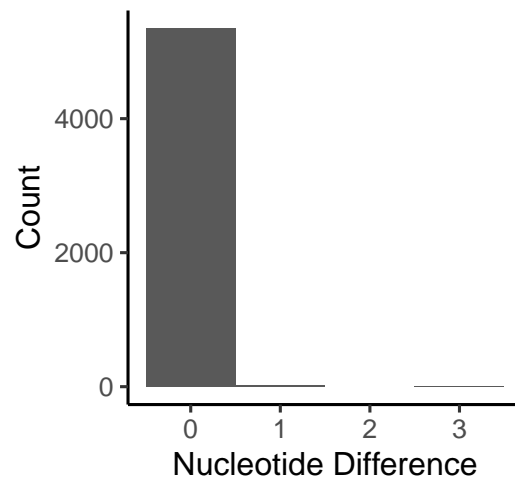
TRBV6-56*ap02

2244 sequences assigned
2033 (90.6%) exact matches, in which:
2006 unique CDR3
13 unique J



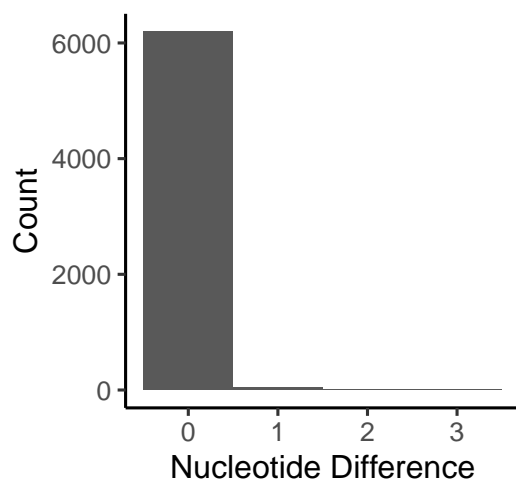
TRBV7-2*ap01

5363 sequences assigned
5347 (99.7%) exact matches, in which:
5333 unique CDR3
13 unique J



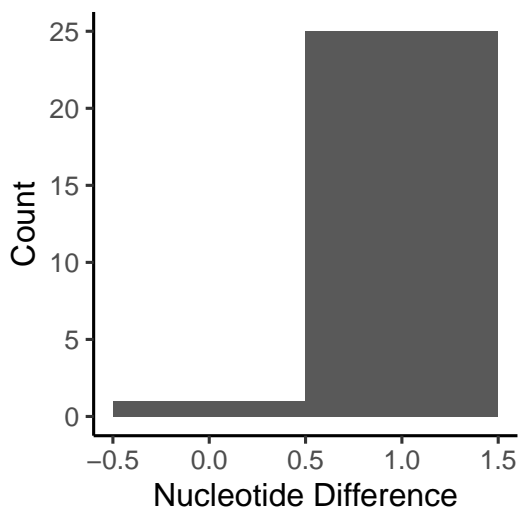
TRBV6-23*ap01

6243 sequences assigned
6194 (99.2%) exact matches, in which:
6132 unique CDR3
13 unique J



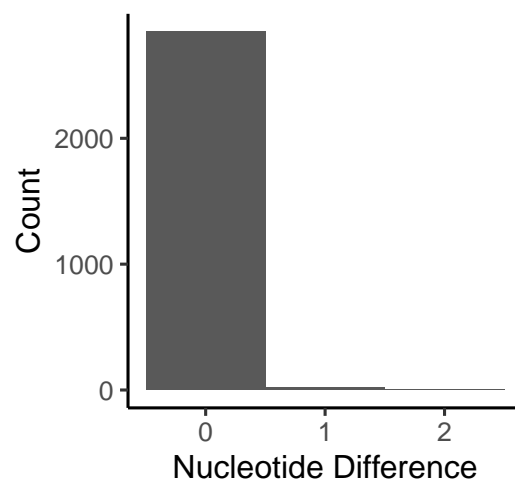
TRBV7-1*ap01_T296C

26 sequences assigned
1 (3.8%) exact matches, in which:
1 unique CDR3
1 unique J



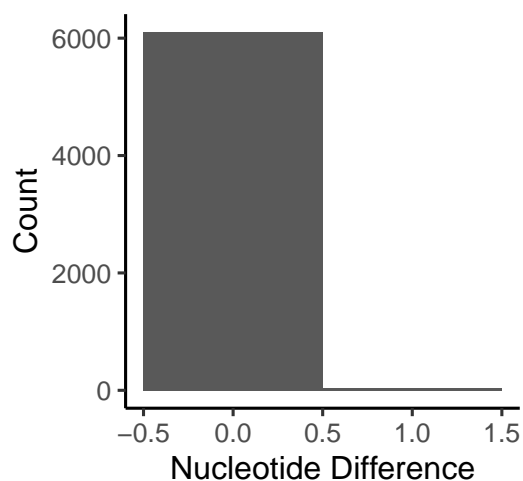
TRBV7-3*ap01

2871 sequences assigned
2847 (99.2%) exact matches, in which:
2834 unique CDR3
13 unique J



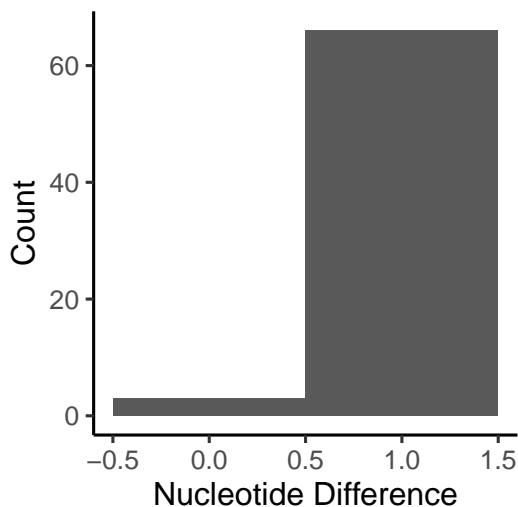
TRBV6-56*ap01

6146 sequences assigned
6104 (99.3%) exact matches, in which:
6048 unique CDR3
13 unique J



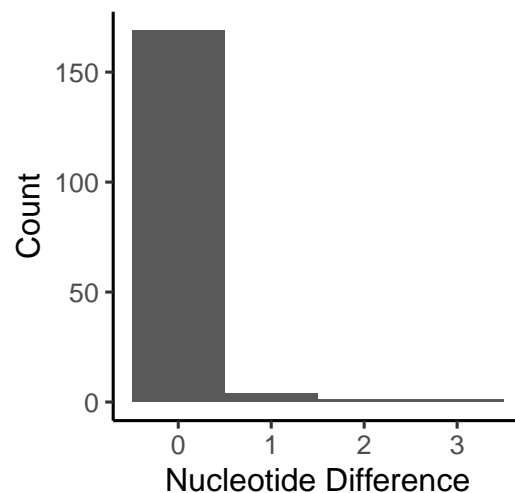
TRBV7-1*ap01_T296C_C

69 sequences assigned
3 (4.3%) exact matches, in which:
3 unique CDR3
2 unique J



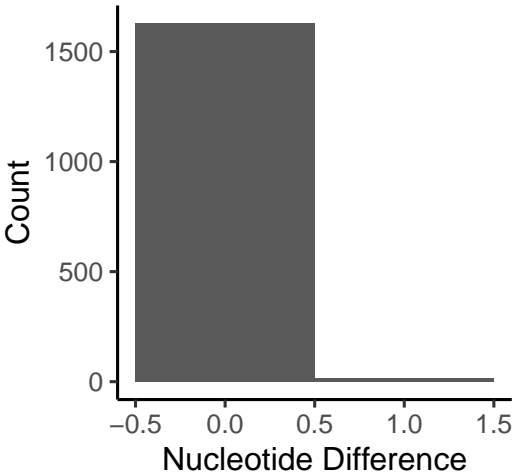
TRBV7-4*ap01

175 sequences assigned
169 (96.6%) exact matches, in which:
167 unique CDR3
12 unique J



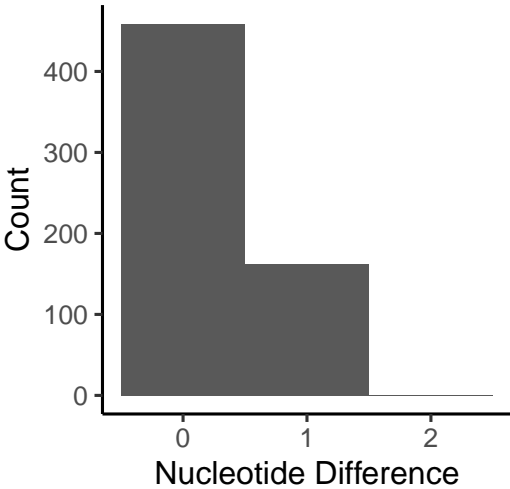
TRBV7-6*ap01

1643 sequences assigned
1628 (99.1%) exact matches, in which:
1623 unique CDR3
13 unique J



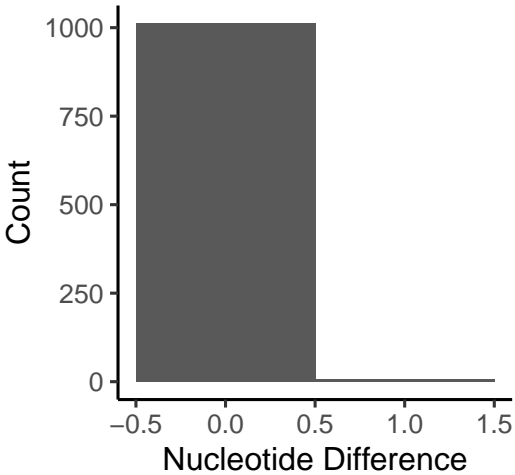
TRBV7-8*ap03

622 sequences assigned
459 (73.8%) exact matches, in which:
457 unique CDR3
13 unique J



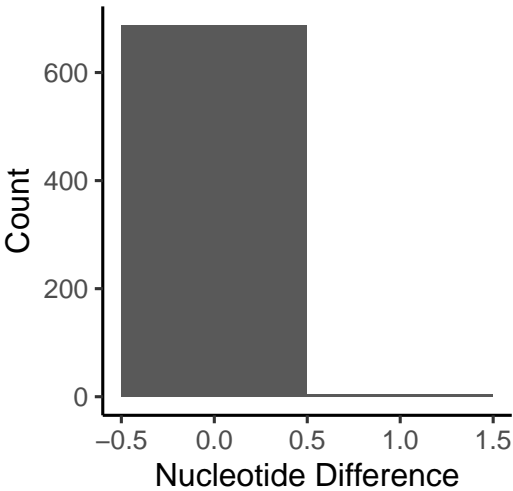
TRBV29-1*ap02

1019 sequences assigned
1012 (99.3%) exact matches, in which:
994 unique CDR3
13 unique J



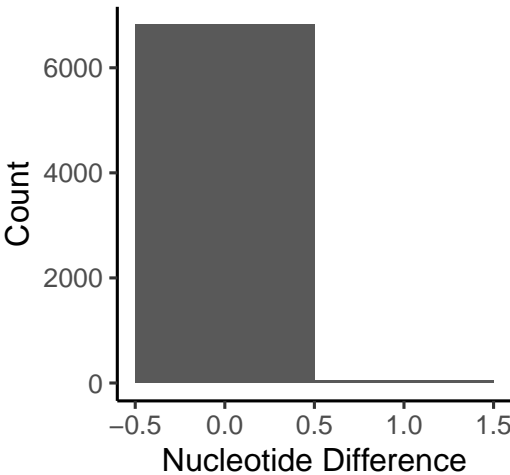
TRBV7-7*ap01_C315T

693 sequences assigned
688 (99.3%) exact matches, in which:
685 unique CDR3
13 unique J



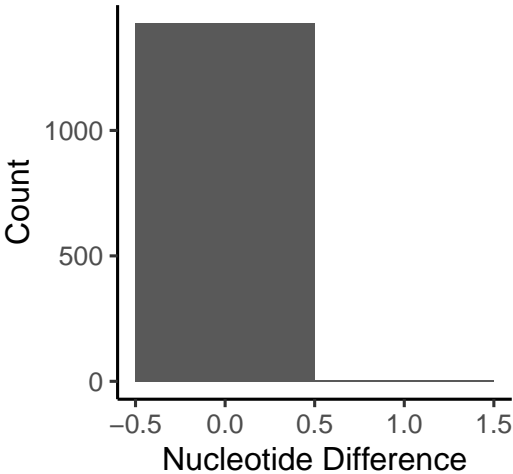
TRBV7-9*ap01

6864 sequences assigned
6819 (99.3%) exact matches, in which:
6797 unique CDR3
13 unique J



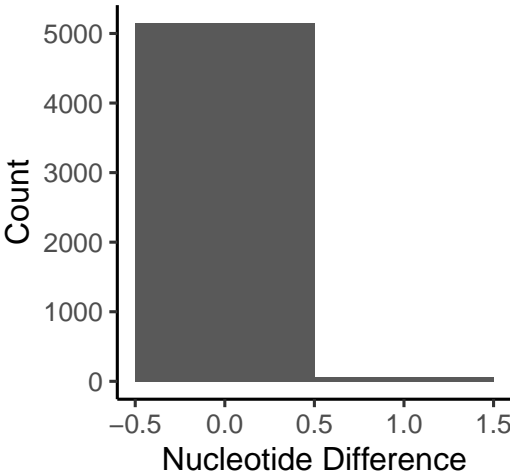
TRBV7-8*ap01

1432 sequences assigned
1428 (99.7%) exact matches, in which:
1414 unique CDR3
13 unique J

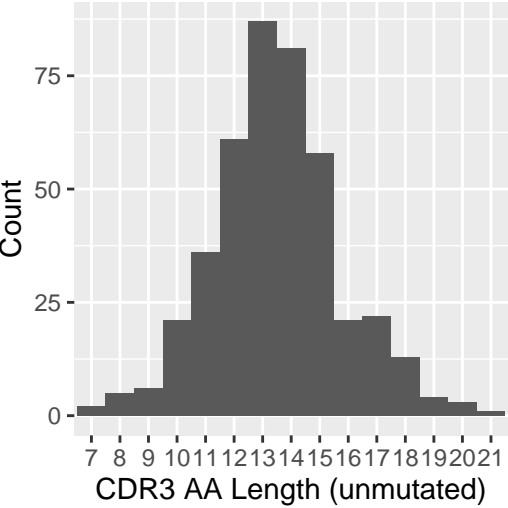


TRBV29-1*ap01

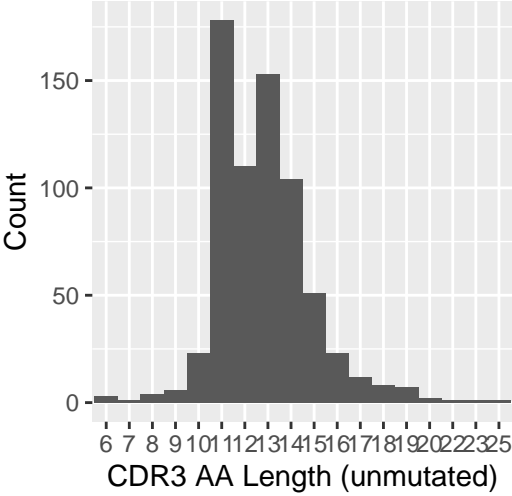
5211 sequences assigned
5150 (98.8%) exact matches, in which:
5095 unique CDR3
13 unique J



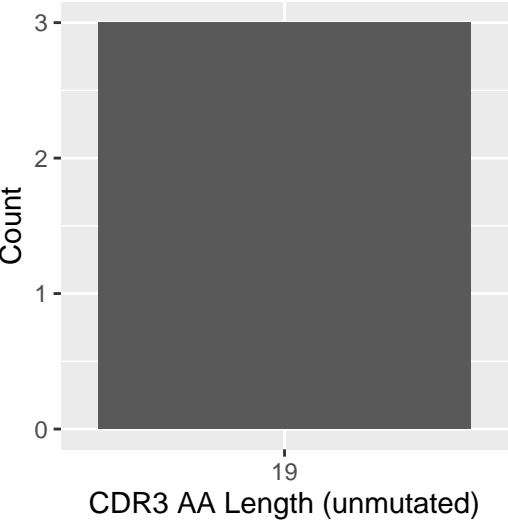
TRBV23-1*ap01_T304C



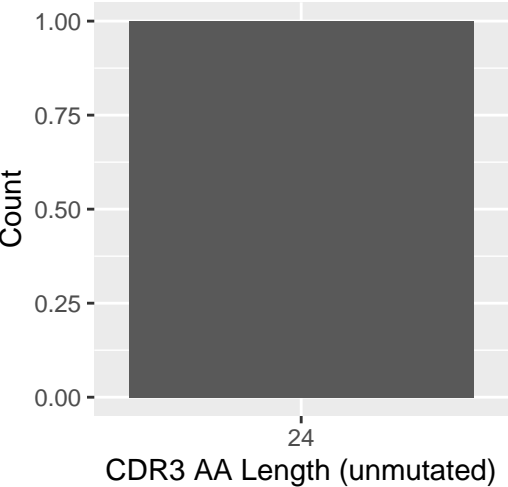
TRBV7-7*ap01_C315T

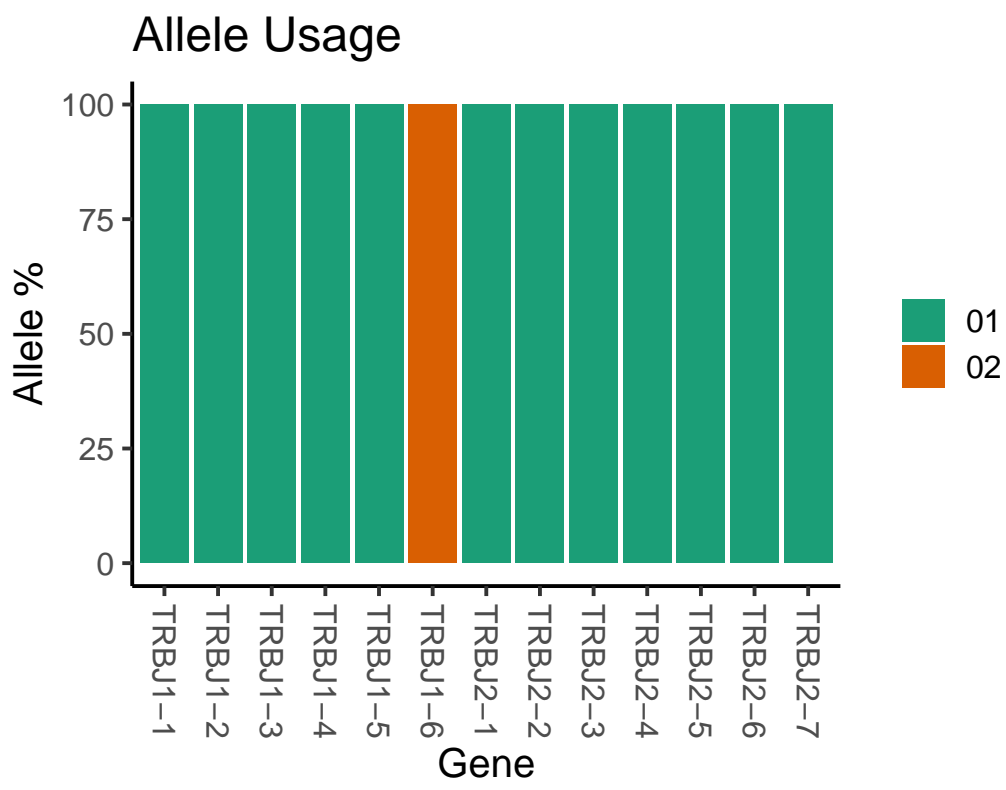


TRBV7-1*ap01_T296C_C314T



TRBV7-1*ap01_T296C





[illegible]