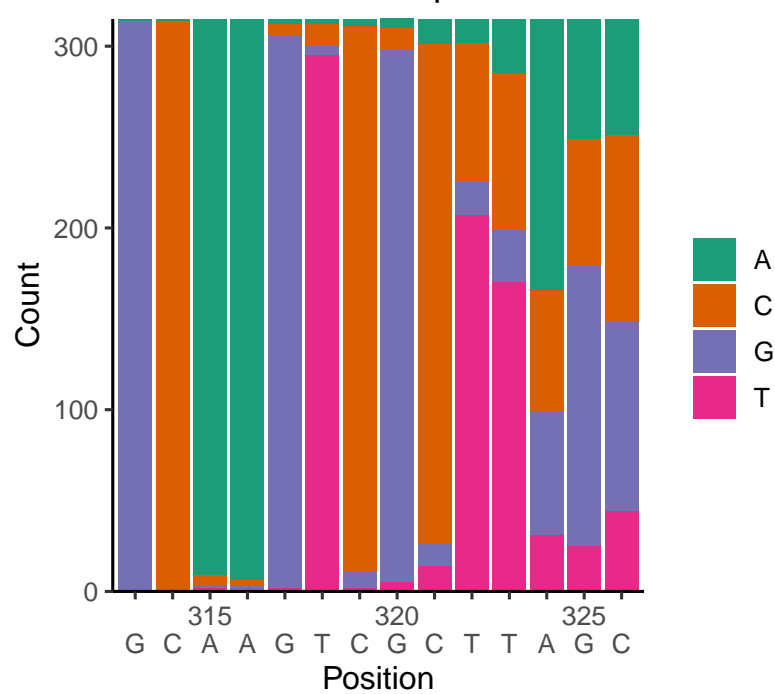
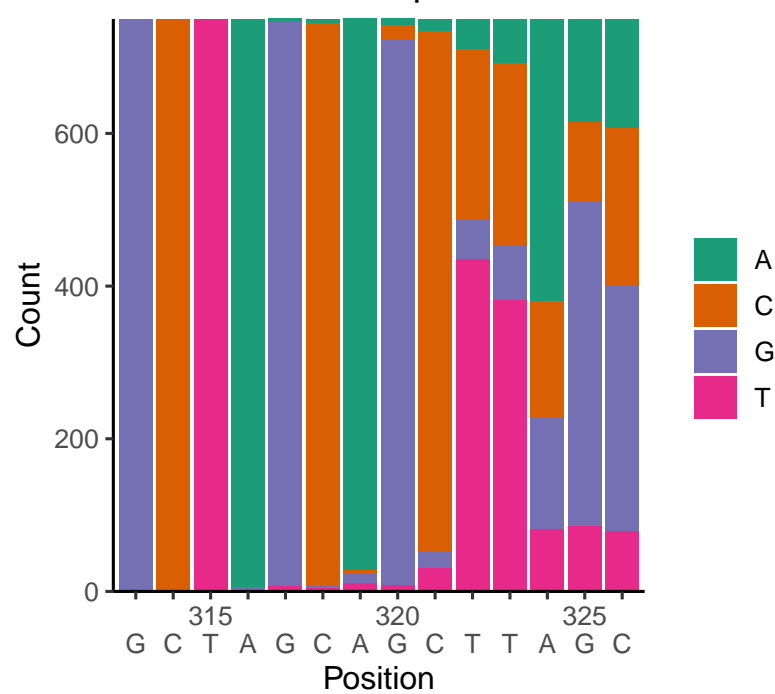


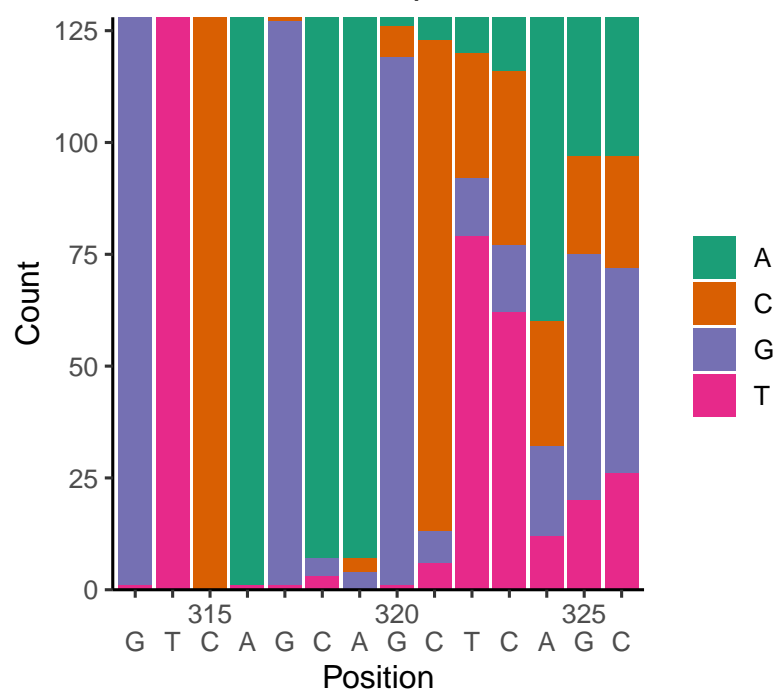
Gene TRBV12-2*ap01_G301A



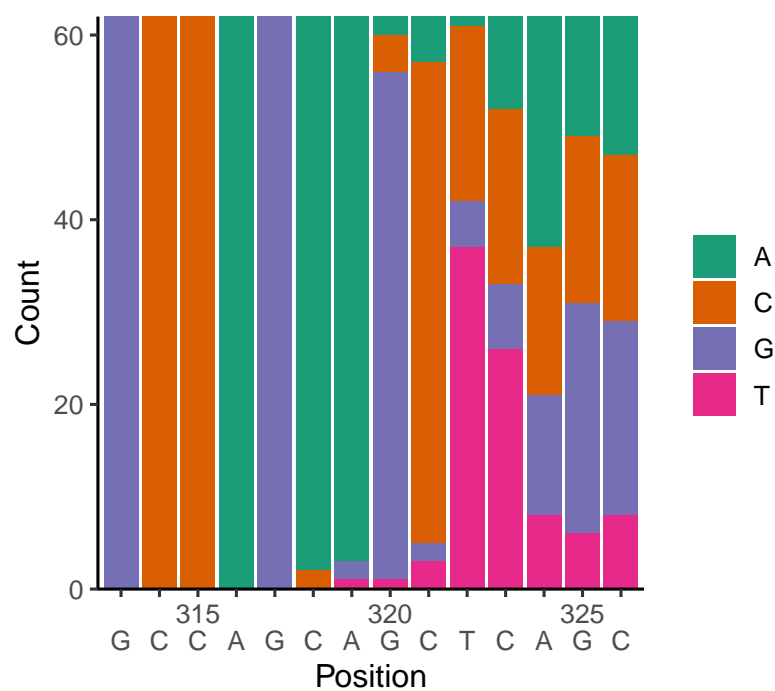
Gene TRBV7-7*ap01_C315T



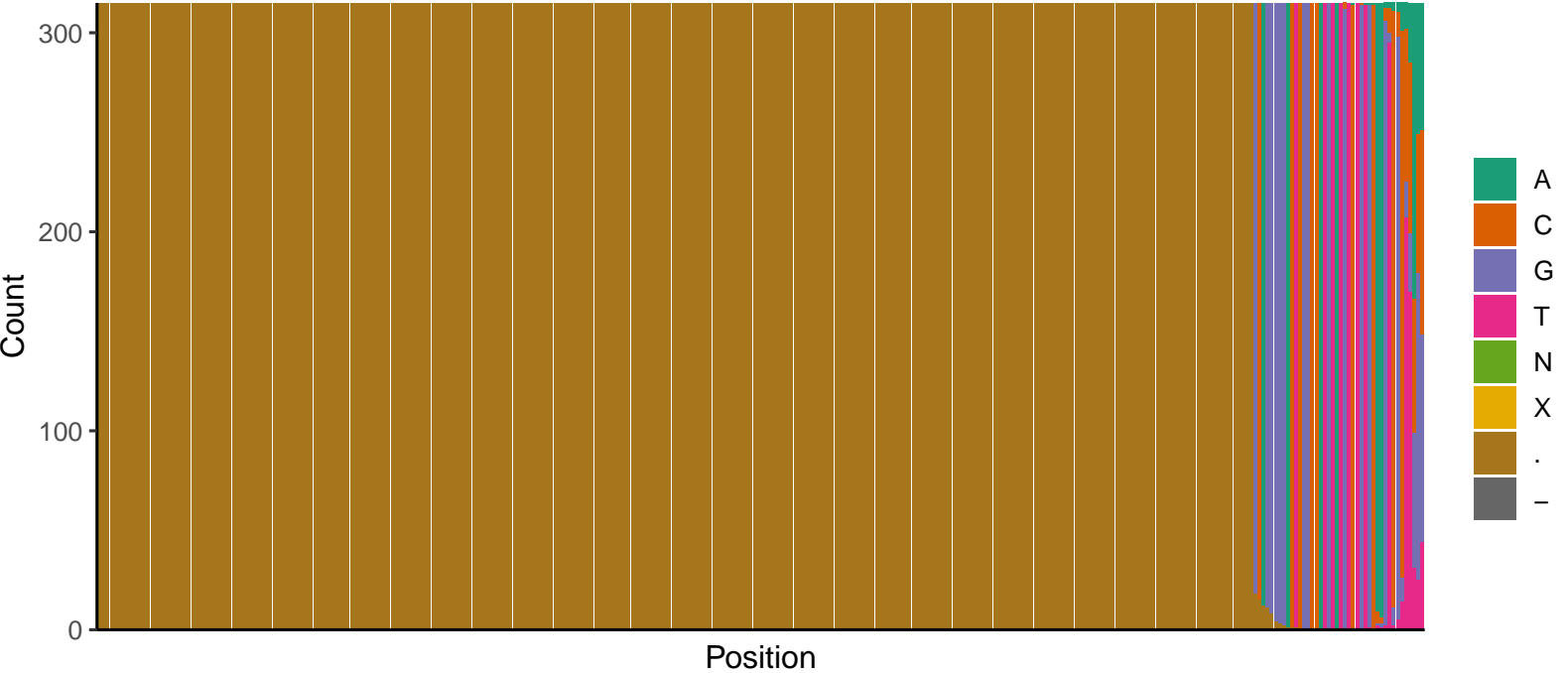
Gene TRBV7-1*ap01_G291C_T296C_C314T



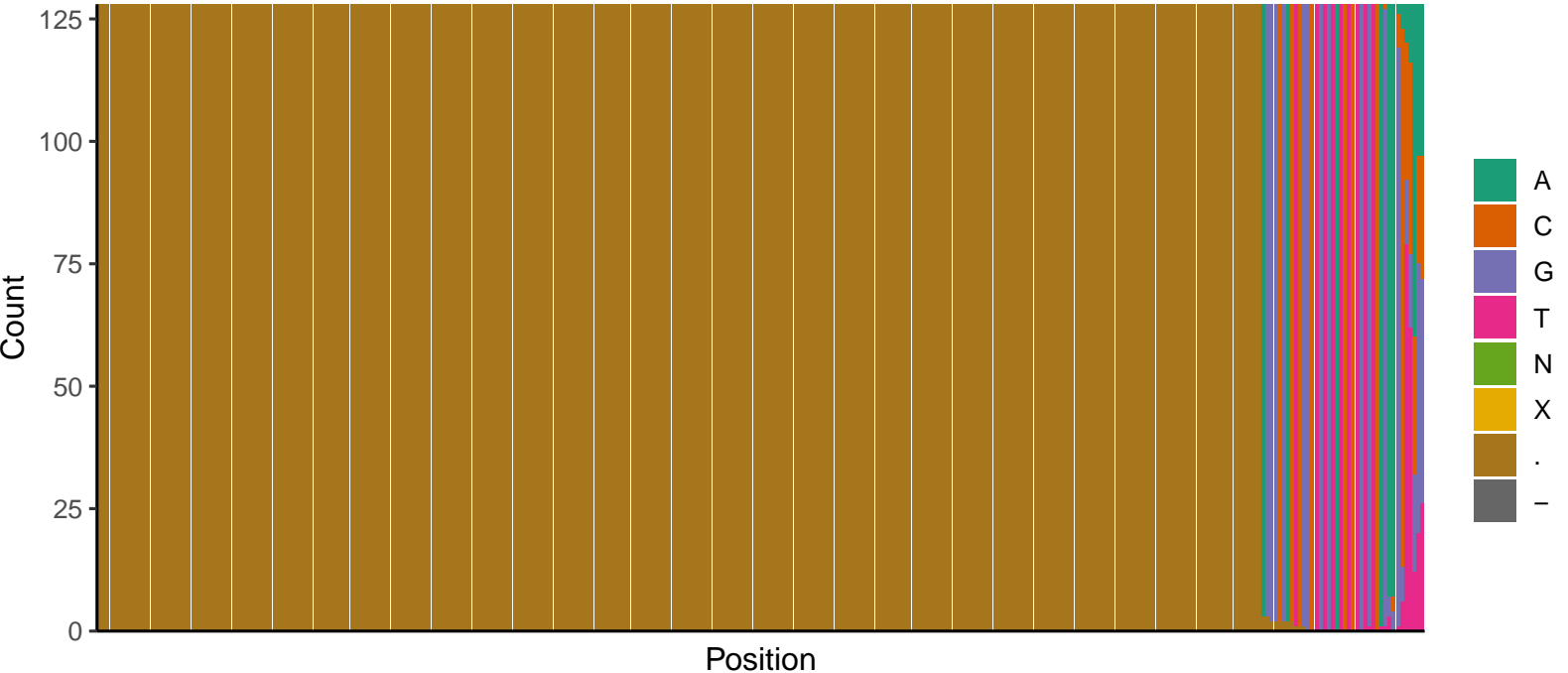
Gene TRBV7-1*ap01_G291C_T296C



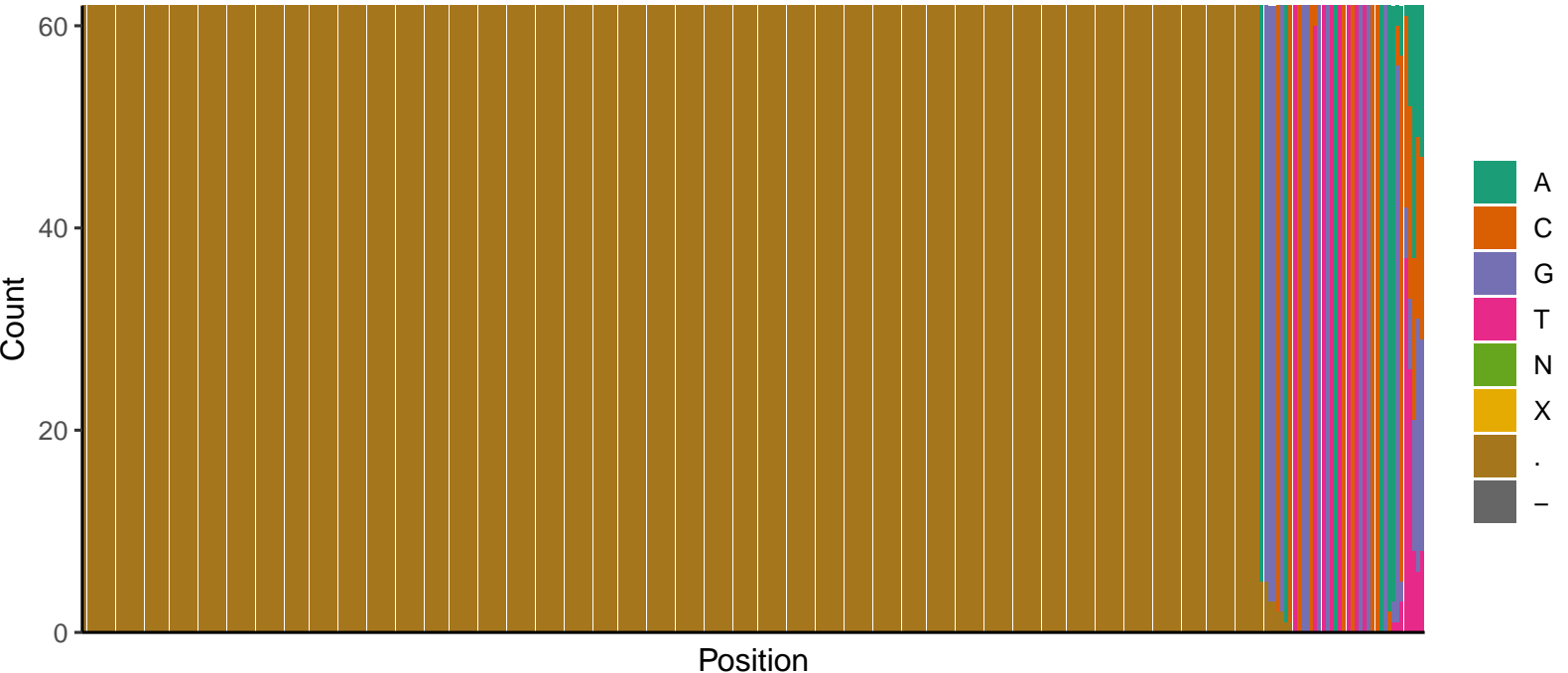
Gene TRBV12-2*ap01_G301A



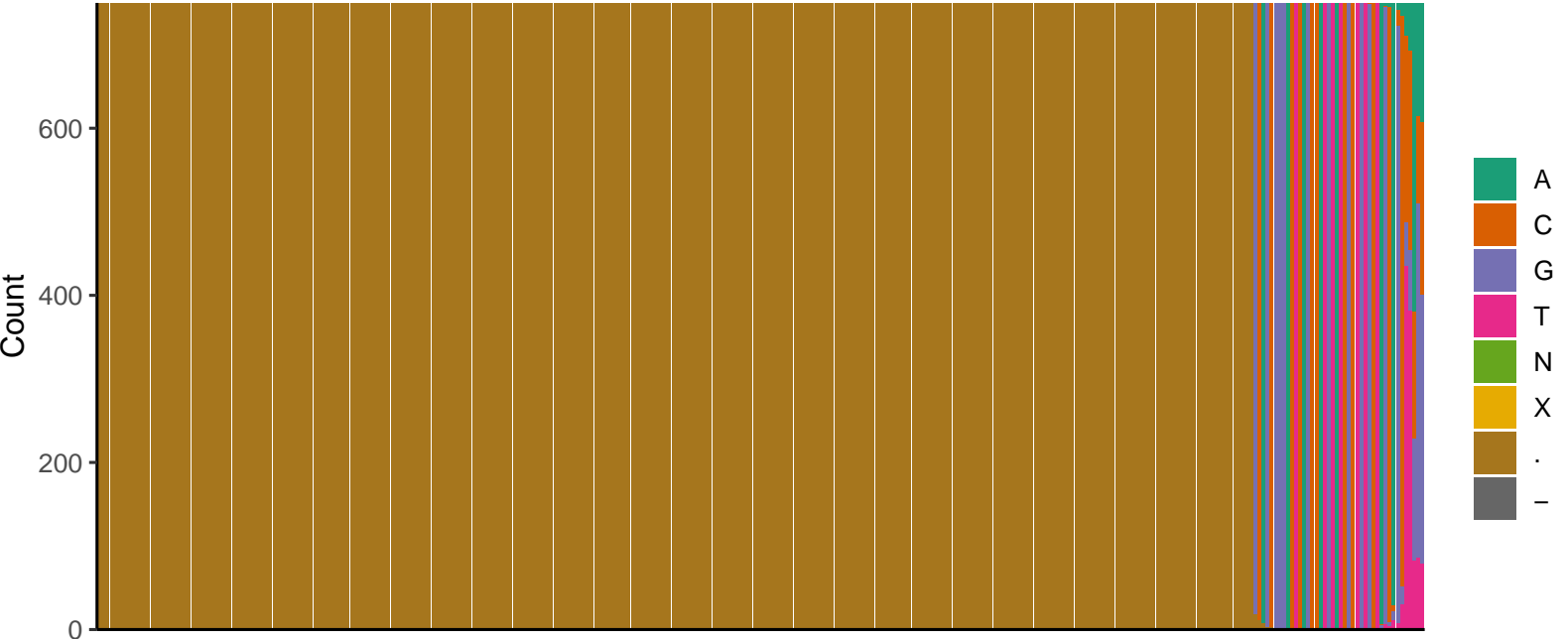
Gene TRBV7-1*ap01_G291C_T296C_C314T



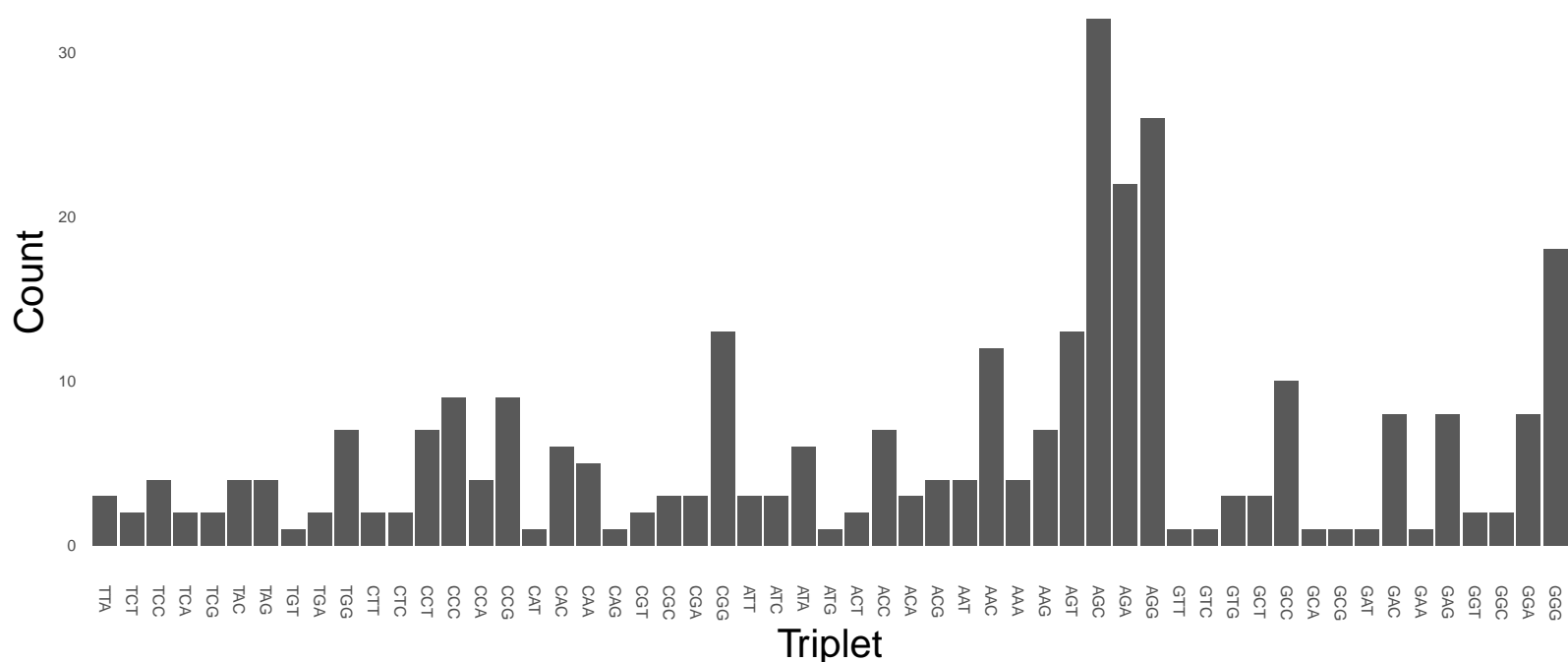
Gene TRBV7-1*ap01_G291C_T296C



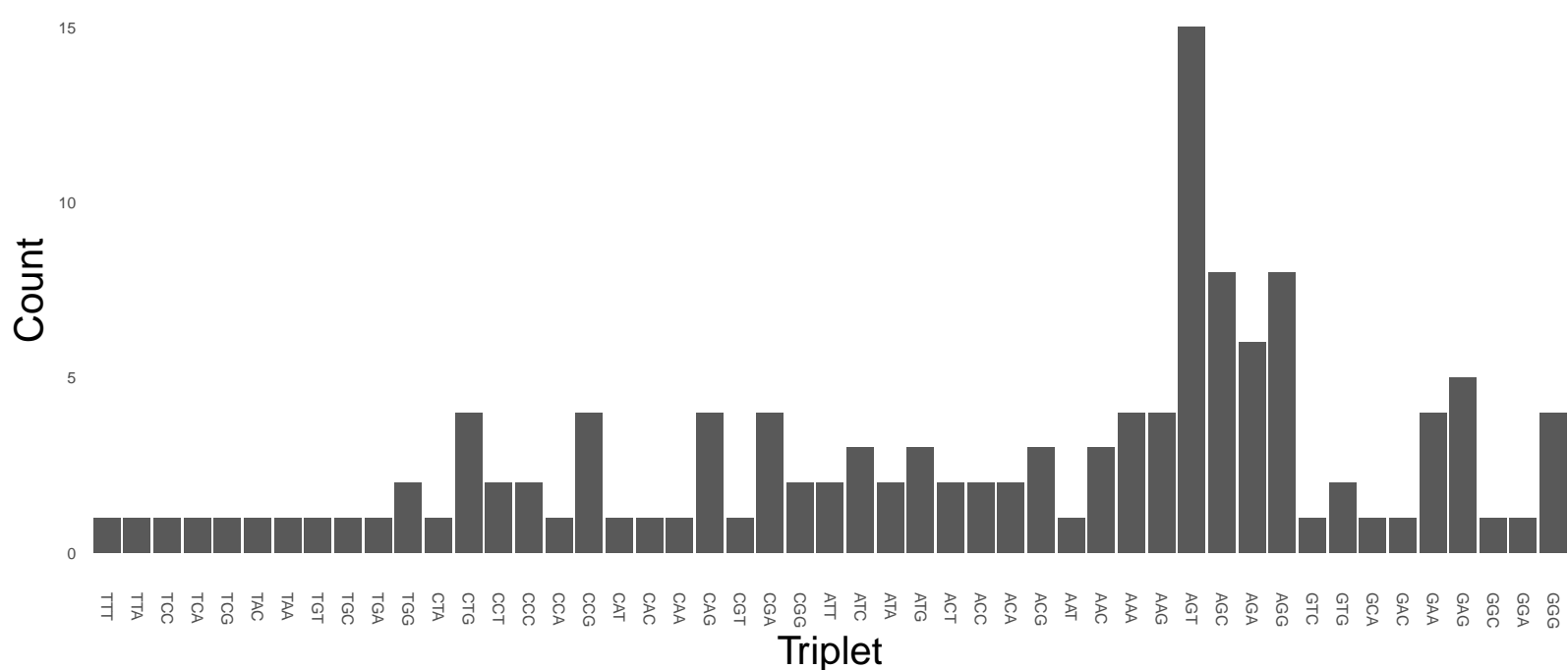
Gene TRBV7-7*ap01_C315T



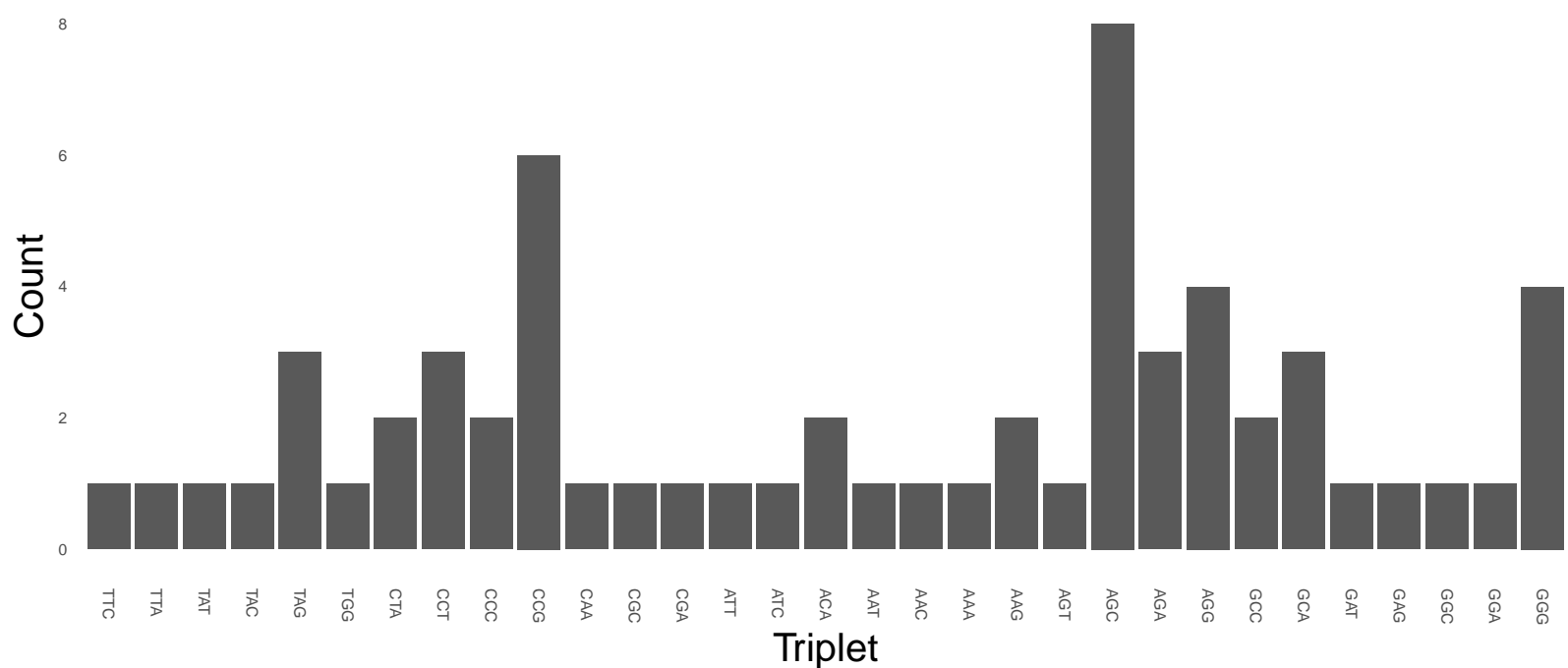
TRBV12-2*ap01_G301A- Final 3 nucleotides as a triplet



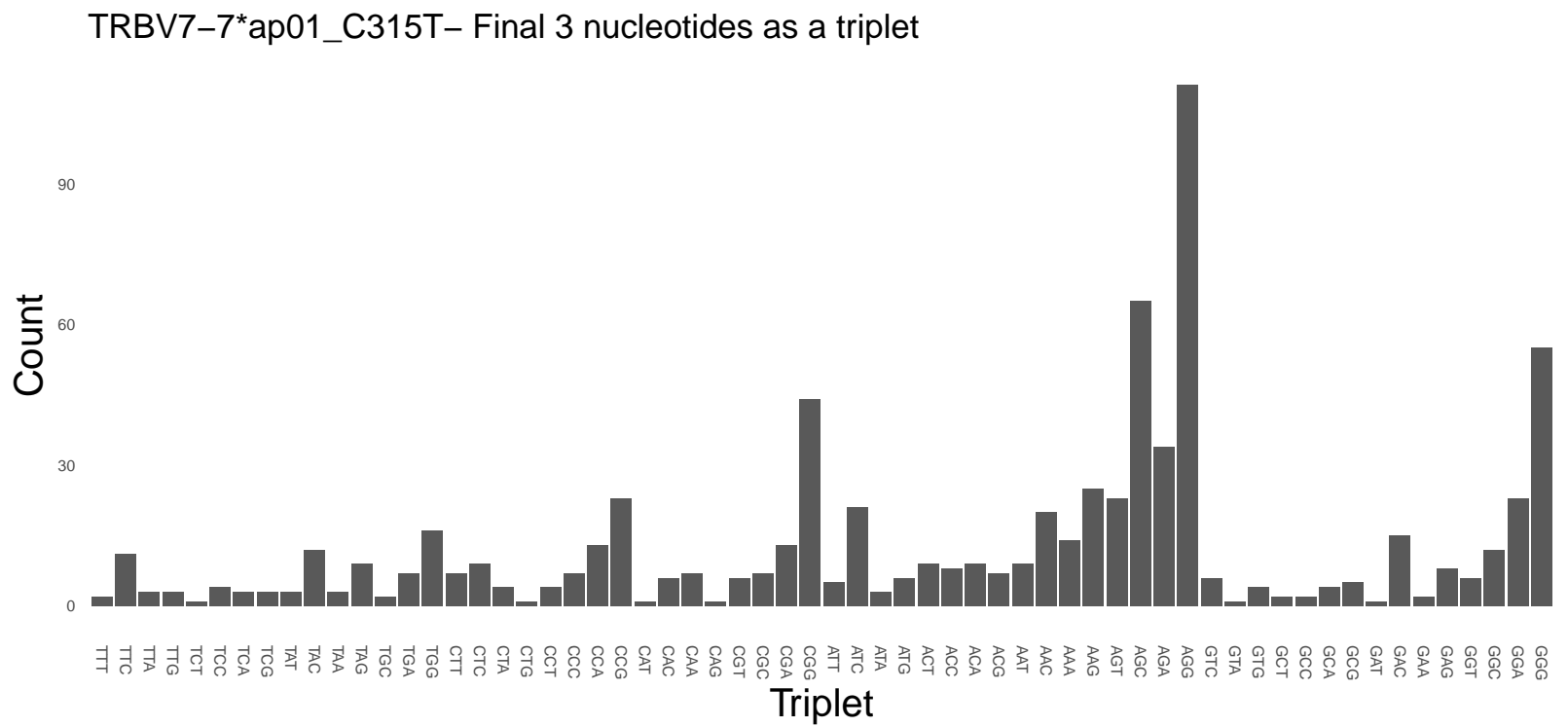
TRBV7-1*ap01_G291C_T296C_C314T- Final 3 nucleotides as a triplet



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

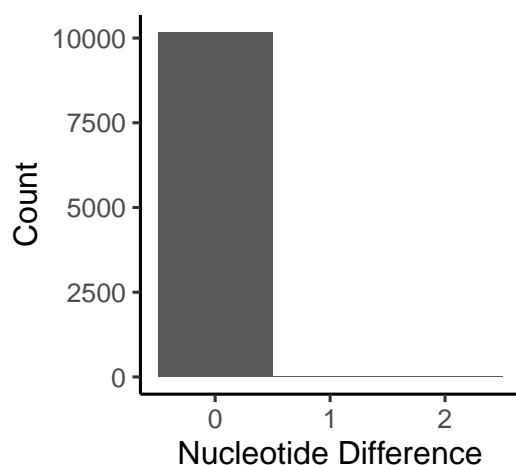


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



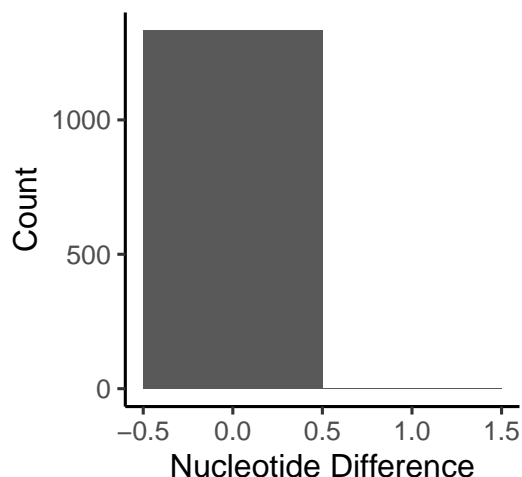
TRBV20-1*ap01

10192 sequences assigned
10174 (99.8%) exact matches, in which:
10158 unique CDR3
13 unique J



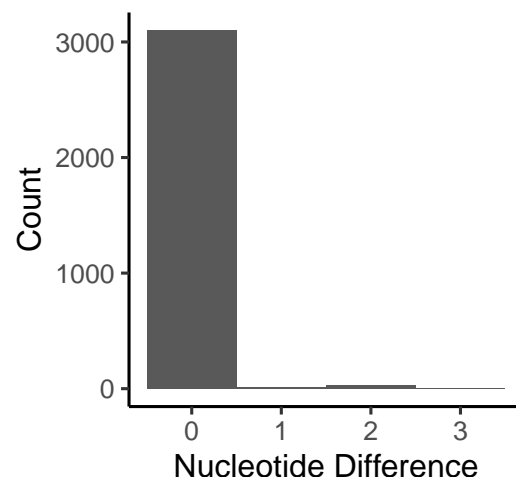
TRBV10-2*ap01

1335 sequences assigned
1333 (99.9%) exact matches, in which:
1332 unique CDR3
13 unique J



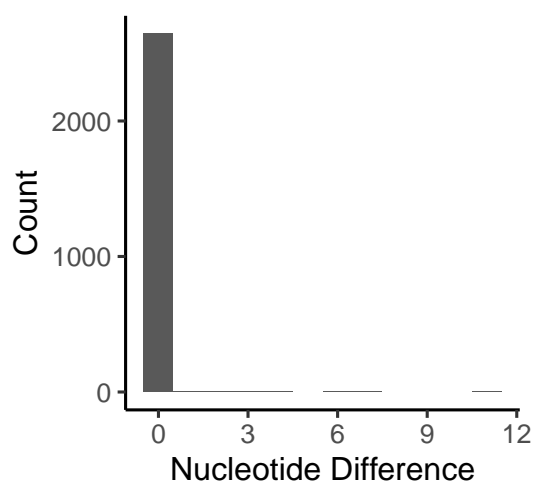
TRBV13*ap01

3140 sequences assigned
3100 (98.7%) exact matches, in which:
3096 unique CDR3
13 unique J



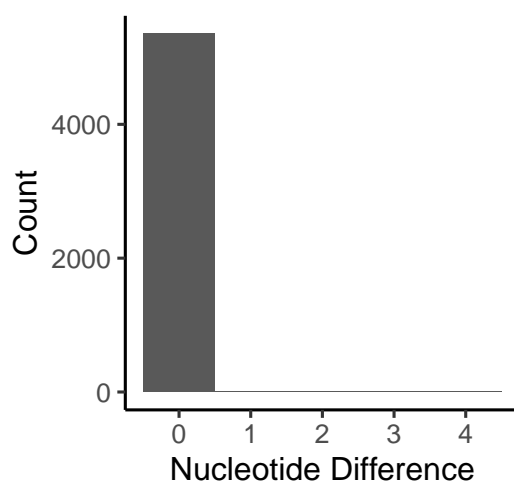
TRBV10-1*ap01

2655 sequences assigned
2644 (99.6%) exact matches, in which:
2642 unique CDR3
13 unique J



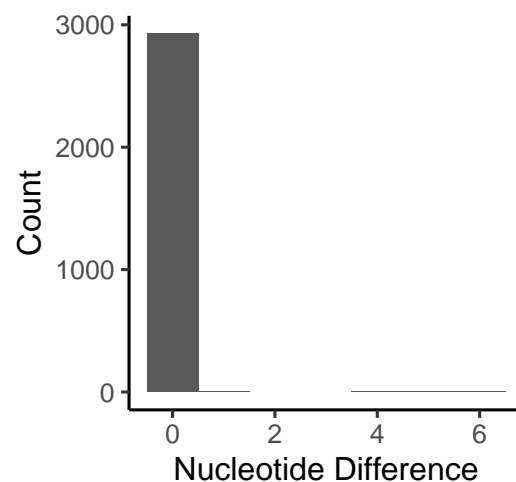
TRBV10-3*ap01

5377 sequences assigned
5354 (99.6%) exact matches, in which:
5350 unique CDR3
13 unique J



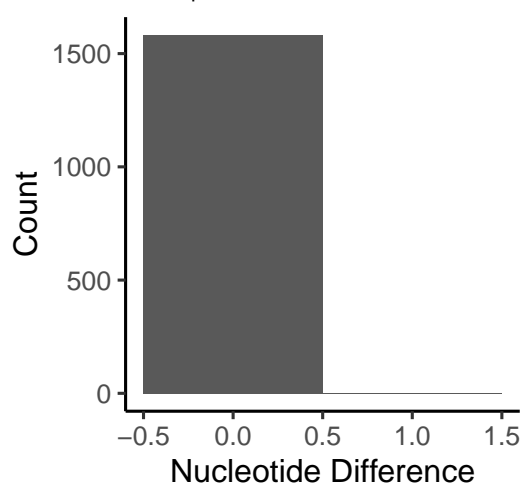
TRBV14*ap01

2932 sequences assigned
2927 (99.8%) exact matches, in which:
2926 unique CDR3
13 unique J



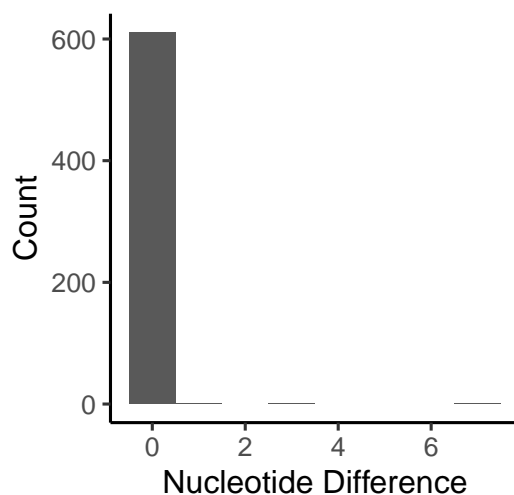
TRBV20-1*ap02

1584 sequences assigned
1582 (99.9%) exact matches, in which:
1581 unique CDR3
13 unique J



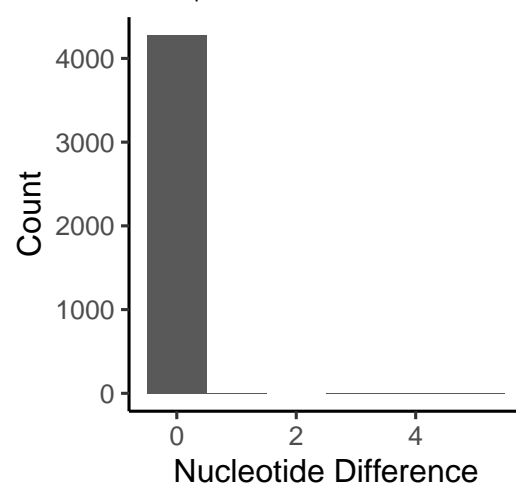
TRBV1*ap01

614 sequences assigned
611 (99.5%) exact matches, in which:
611 unique CDR3
13 unique J



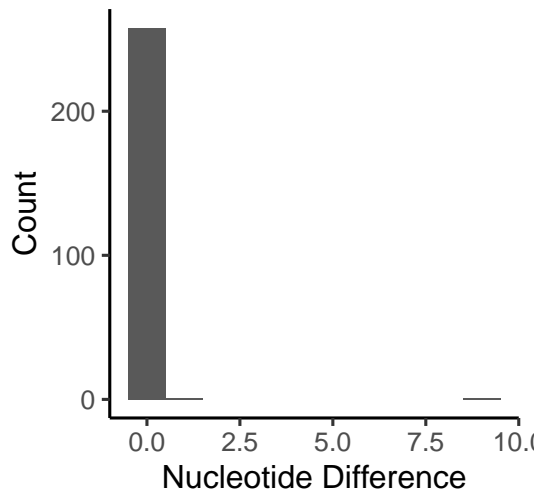
TRBV15*ap02

4287 sequences assigned
4279 (99.8%) exact matches, in which:
4274 unique CDR3
13 unique J



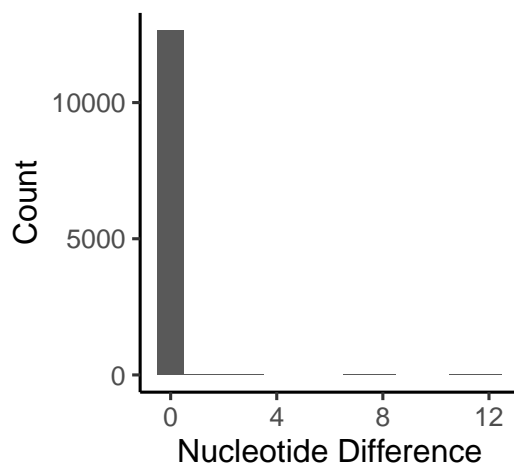
TRBV16*ap01

260 sequences assigned
258 (99.2%) exact matches, in which:
258 unique CDR3
13 unique J



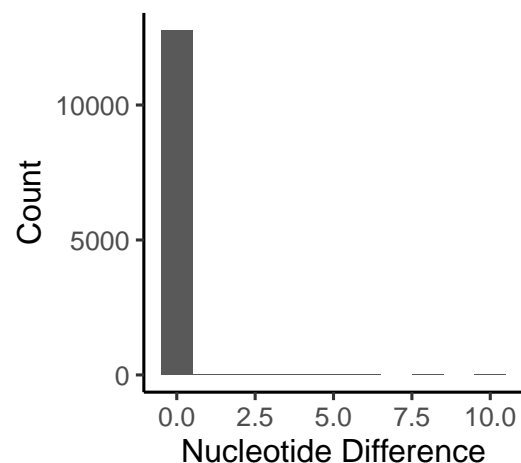
TRBV19*ap01

12694 sequences assigned
12659 (99.7%) exact matches, in which:
12658 unique CDR3
13 unique J



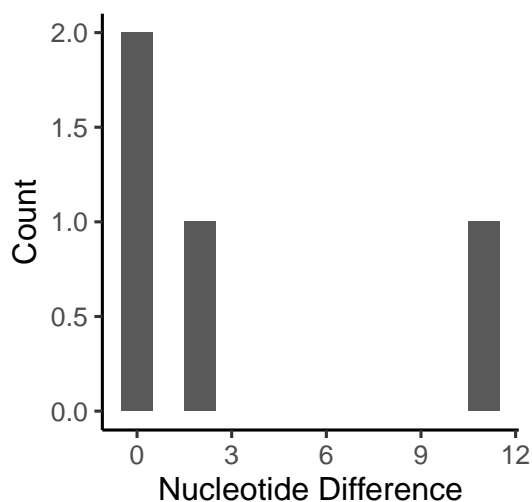
TRBV27*ap01

12827 sequences assigned
12773 (99.6%) exact matches, in which:
12741 unique CDR3
13 unique J



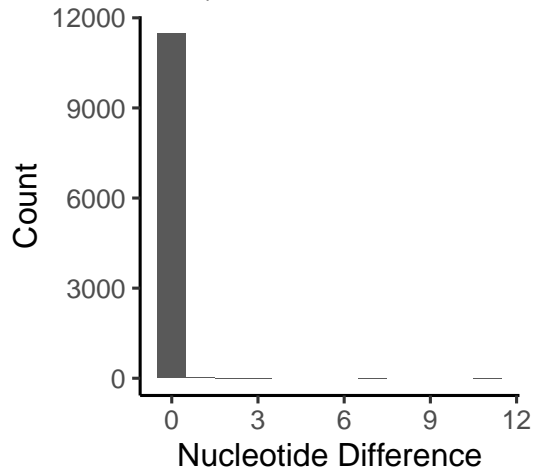
TRBV17*ap01

4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
2 unique J



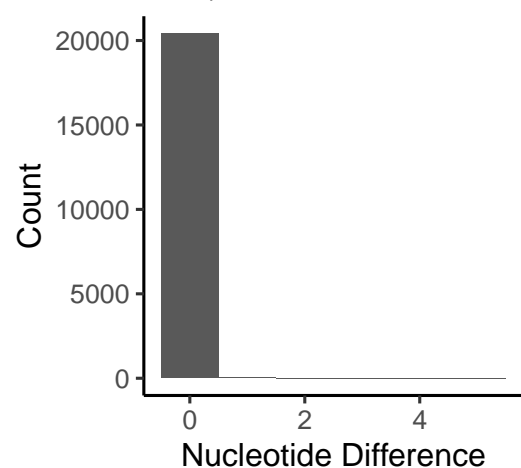
TRBV2*ap01

11526 sequences assigned
11479 (99.6%) exact matches, in which:
11459 unique CDR3
13 unique J



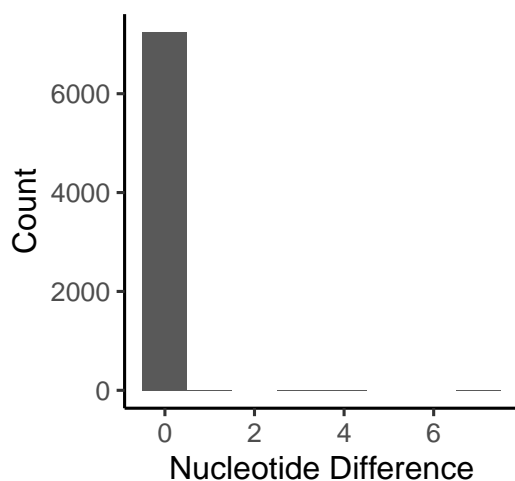
TRBV28*ap01

20471 sequences assigned
20418 (99.7%) exact matches, in which:
20406 unique CDR3
13 unique J



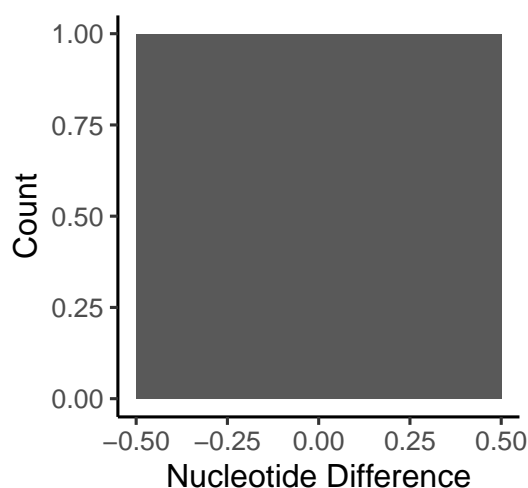
TRBV18*ap01

7257 sequences assigned
7247 (99.9%) exact matches, in which:
7246 unique CDR3
13 unique J



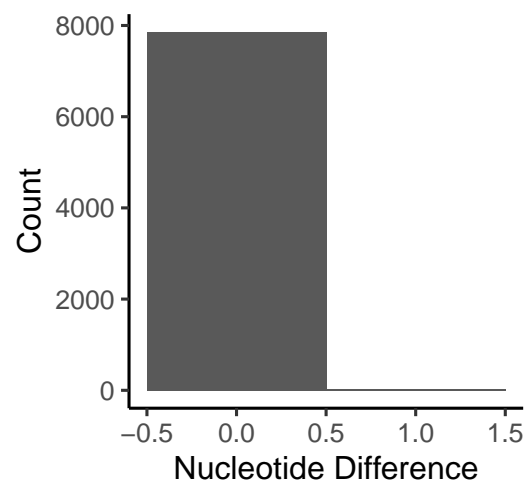
TRBV26*ap01

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



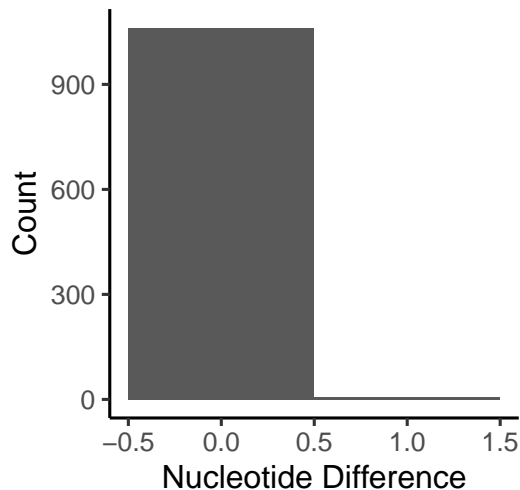
TRBV30*ap01

7886 sequences assigned
7856 (99.6%) exact matches, in which:
7835 unique CDR3
13 unique J



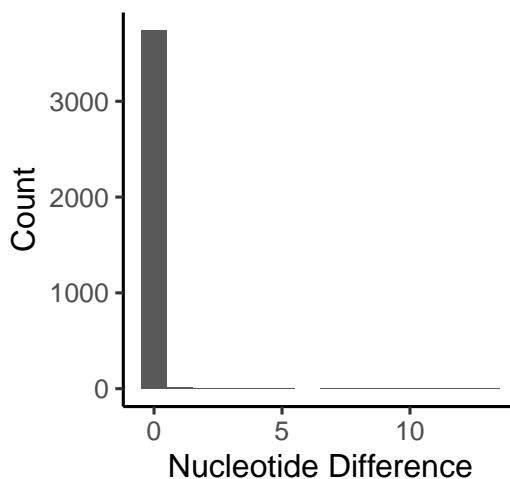
TRBV30*ap03

1070 sequences assigned
1062 (99.3%) exact matches, in which:
1058 unique CDR3
13 unique J



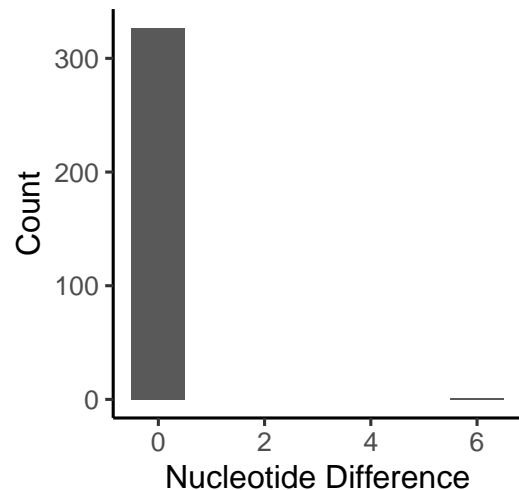
TRBV21-1*ap01

3786 sequences assigned
3740 (98.8%) exact matches, in which:
3739 unique CDR3
13 unique J



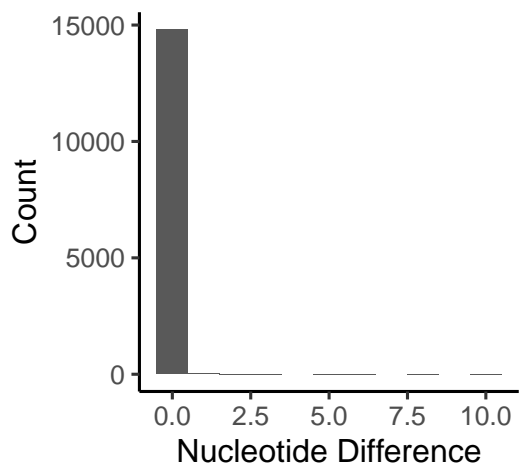
TRBV12-1*ap01

328 sequences assigned
327 (99.7%) exact matches, in which:
327 unique CDR3
13 unique J



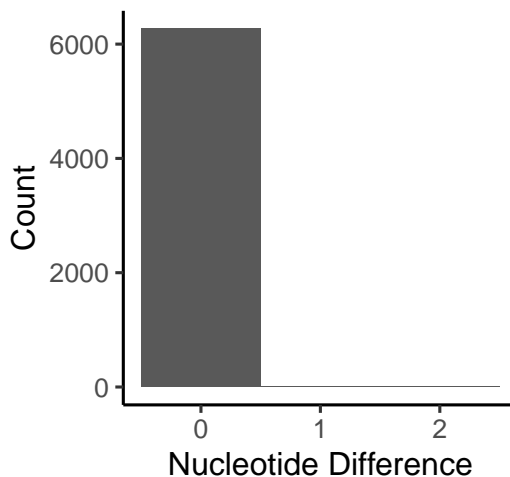
TRBV9*ap01

14845 sequences assigned
14810 (99.8%) exact matches, in which:
14789 unique CDR3
13 unique J



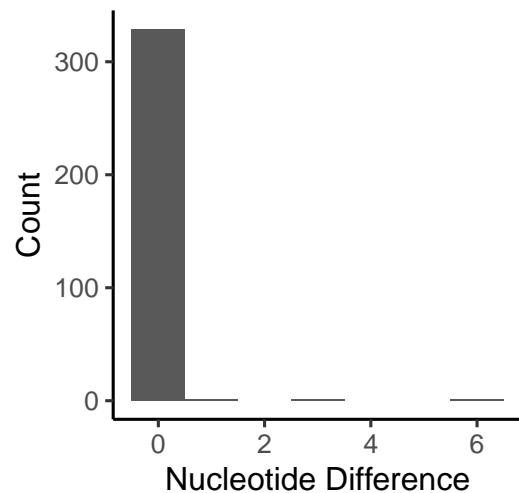
TRBV11-2*ap01

6288 sequences assigned
6269 (99.7%) exact matches, in which:
6268 unique CDR3
13 unique J



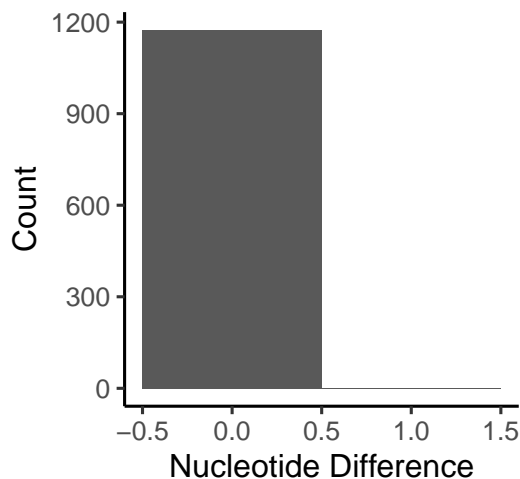
TRBV12-2*ap01

332 sequences assigned
329 (99.1%) exact matches, in which:
329 unique CDR3
13 unique J



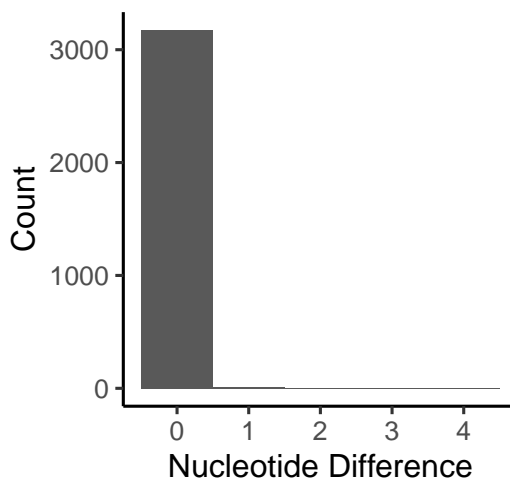
TRBV11-1*ap01

1175 sequences assigned
1174 (99.9%) exact matches, in which:
1173 unique CDR3
13 unique J



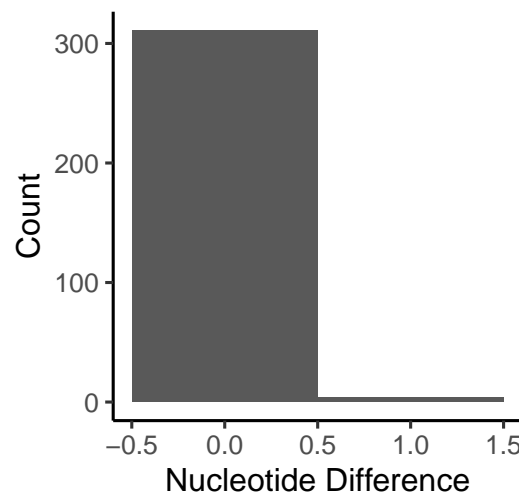
TRBV11-3*ap01

3188 sequences assigned
3174 (99.6%) exact matches, in which:
3174 unique CDR3
13 unique J



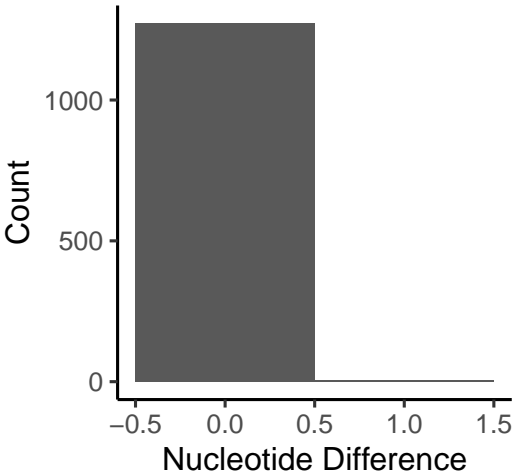
TRBV12-2*ap01_G301A

315 sequences assigned
311 (98.7%) exact matches, in which:
311 unique CDR3
12 unique J



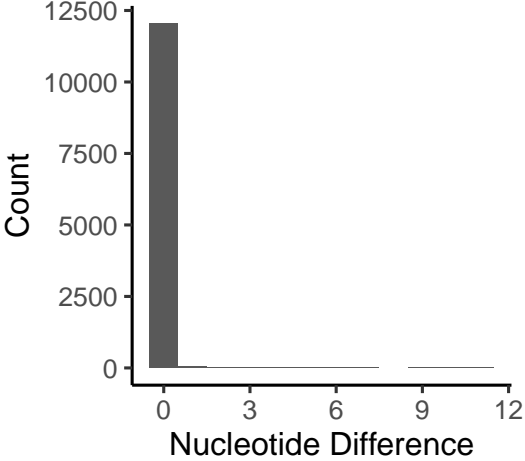
TRBV12-5*ap01

1276 sequences assigned
1272 (99.7%) exact matches, in which:
1272 unique CDR3
13 unique J



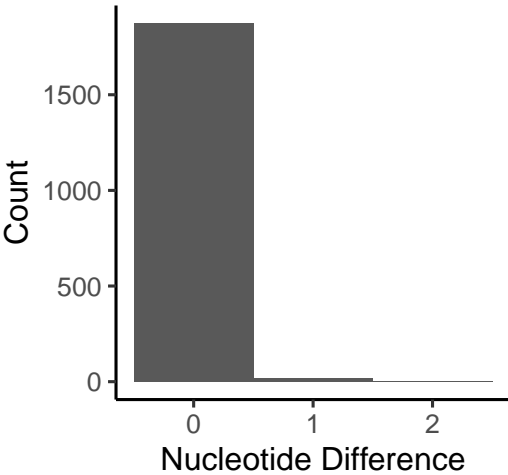
TRBV3-12*ap01

12110 sequences assigned
12057 (99.6%) exact matches, in which:
12030 unique CDR3
13 unique J



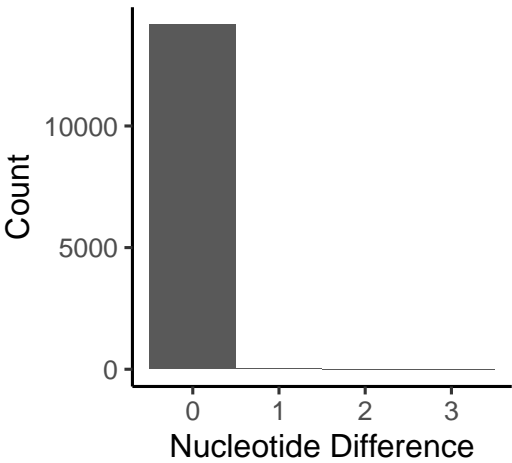
TRBV4-2*ap01

1891 sequences assigned
1873 (99%) exact matches, in which:
1872 unique CDR3
13 unique J



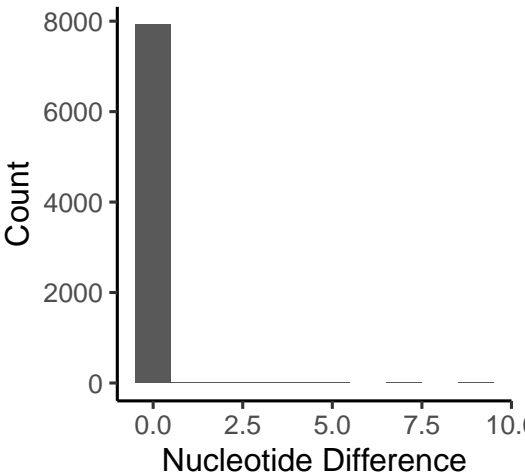
TRBV12-34*ap01

14204 sequences assigned
14172 (99.8%) exact matches, in which:
14165 unique CDR3
13 unique J



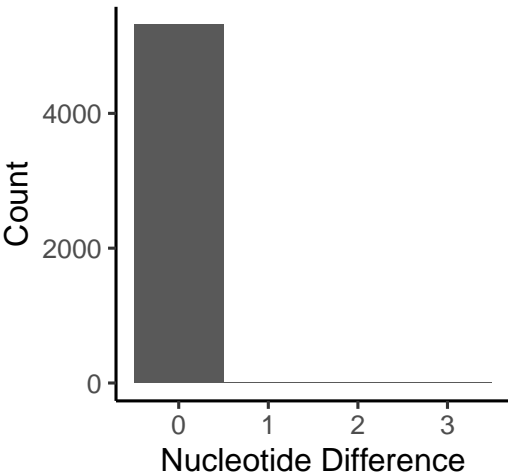
TRBV24-1*ap01

7954 sequences assigned
7921 (99.6%) exact matches, in which:
7909 unique CDR3
13 unique J



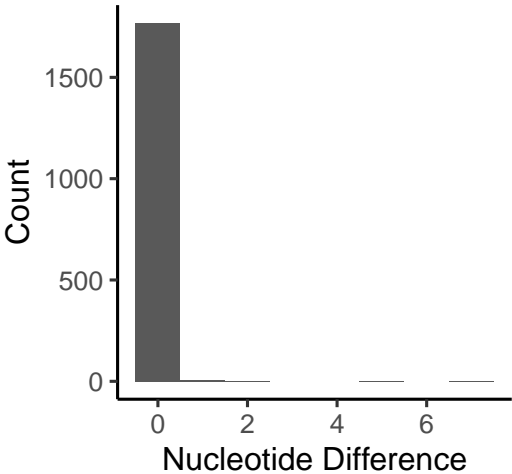
TRBV4-3*ap01

5330 sequences assigned
5315 (99.7%) exact matches, in which:
5307 unique CDR3
13 unique J



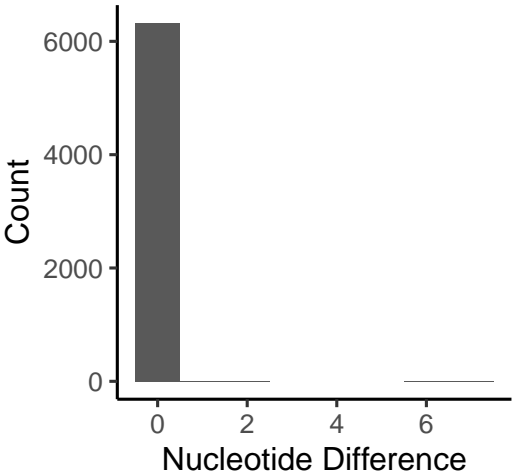
TRBV23-1*ap01

1780 sequences assigned
1768 (99.3%) exact matches, in which:
1767 unique CDR3
13 unique J



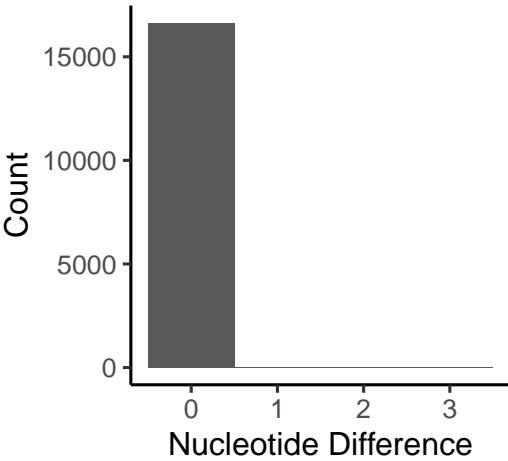
TRBV4-1*ap01

6336 sequences assigned
6323 (99.8%) exact matches, in which:
6321 unique CDR3
13 unique J



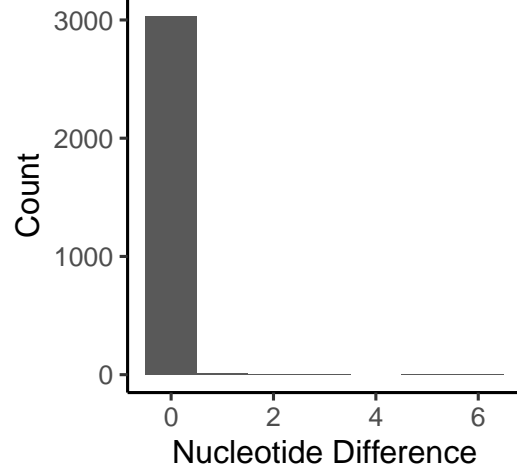
TRBV5-1*ap01

16671 sequences assigned
16641 (99.8%) exact matches, in which:
16594 unique CDR3
13 unique J



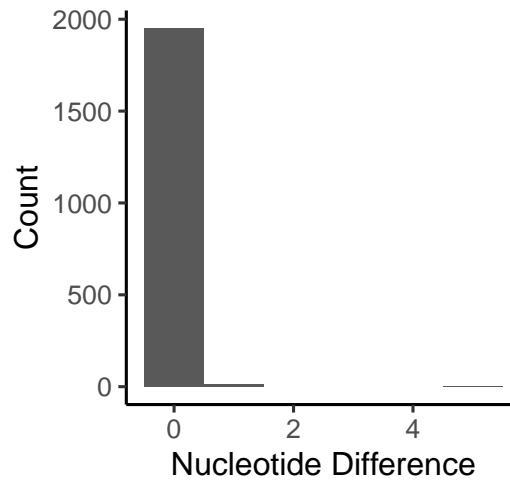
TRBV25-1*ap01

3052 sequences assigned
3030 (99.3%) exact matches, in which:
3025 unique CDR3
13 unique J



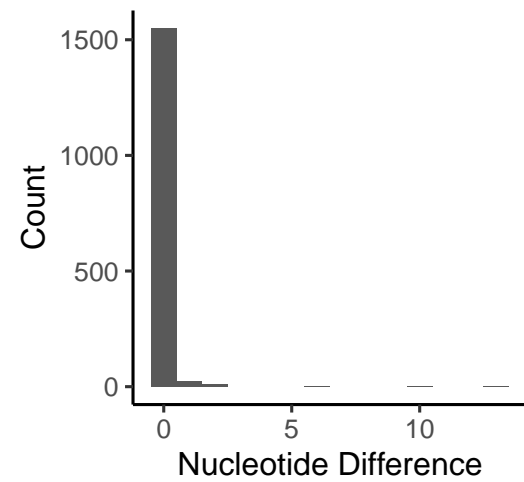
TRBV5-5*ap01

1962 sequences assigned
1950 (99.4%) exact matches, in which:
1944 unique CDR3
13 unique J



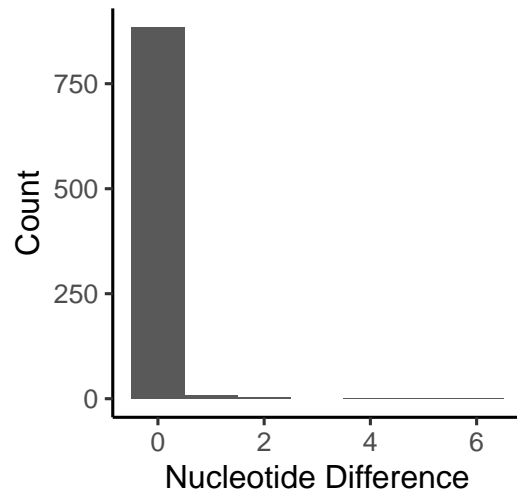
TRBV5-8*ap01

1586 sequences assigned
1549 (97.7%) exact matches, in which:
1547 unique CDR3
13 unique J



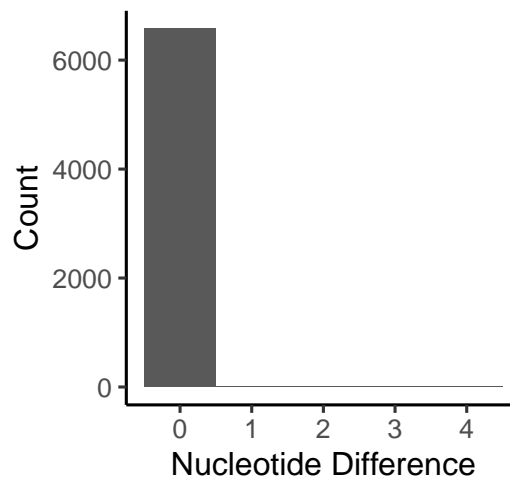
TRBV5-3*ap01

900 sequences assigned
885 (98.3%) exact matches, in which:
884 unique CDR3
13 unique J



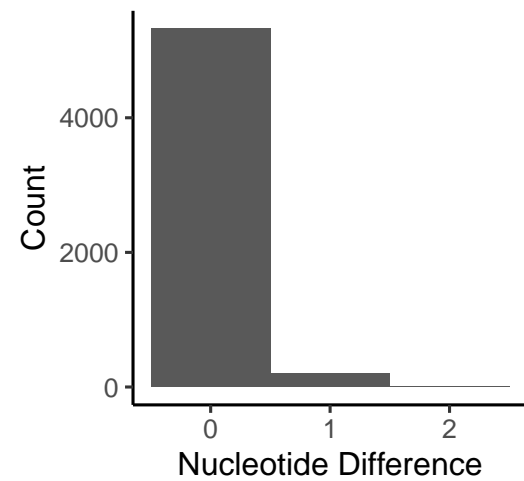
TRBV5-6*ap01

6596 sequences assigned
6576 (99.7%) exact matches, in which:
6553 unique CDR3
13 unique J



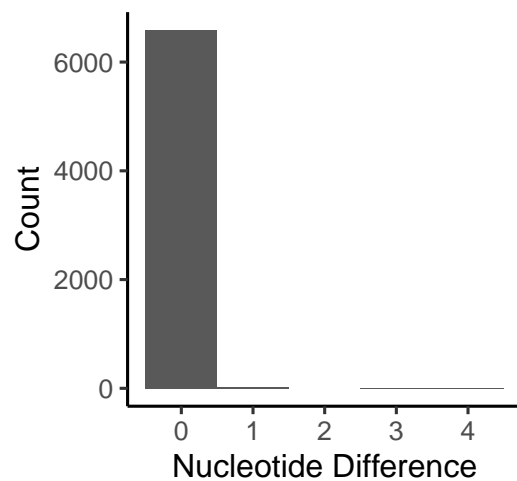
TRBV6-1*ap01

5526 sequences assigned
5323 (96.3%) exact matches, in which:
5315 unique CDR3
13 unique J



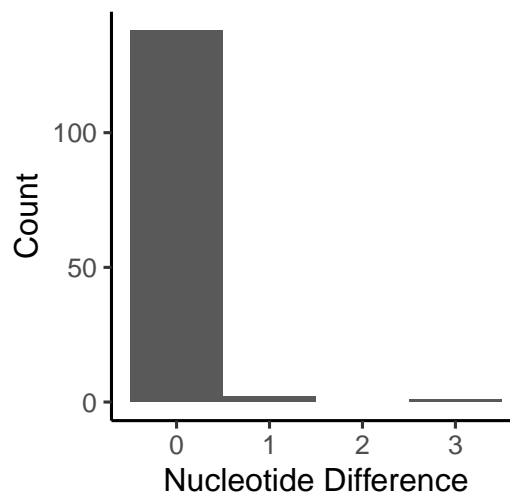
TRBV5-4*ap01

6618 sequences assigned
6589 (99.6%) exact matches, in which:
6586 unique CDR3
13 unique J



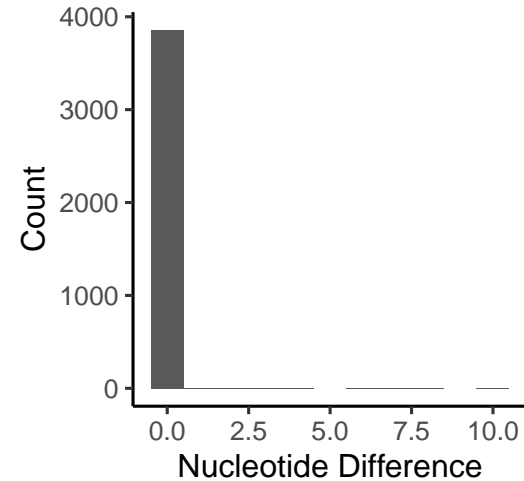
TRBV5-7*ap01

141 sequences assigned
138 (97.9%) exact matches, in which:
138 unique CDR3
13 unique J



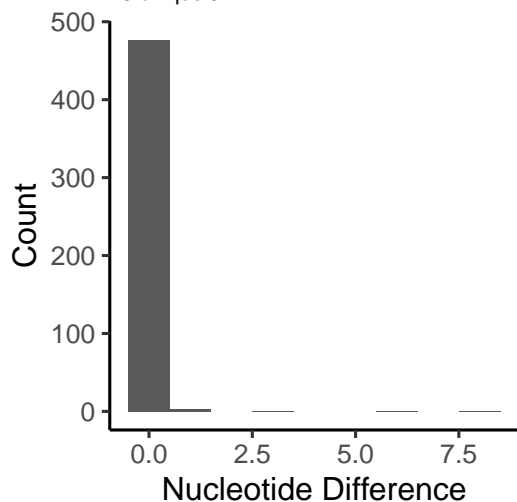
TRBV6-4*ap01

3873 sequences assigned
3857 (99.6%) exact matches, in which:
3855 unique CDR3
13 unique J



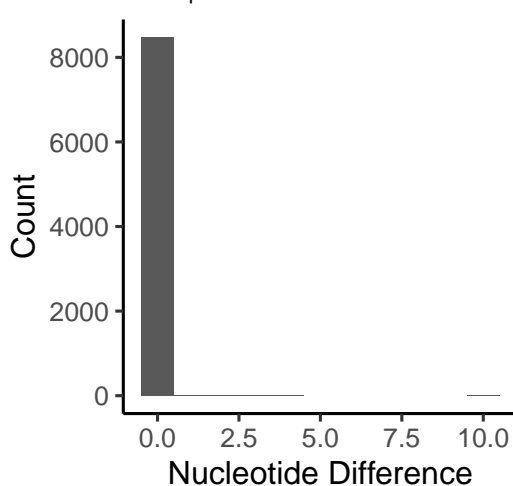
TRBV6-7*ap01

483 sequences assigned
477 (98.8%) exact matches, in which:
477 unique CDR3
13 unique J



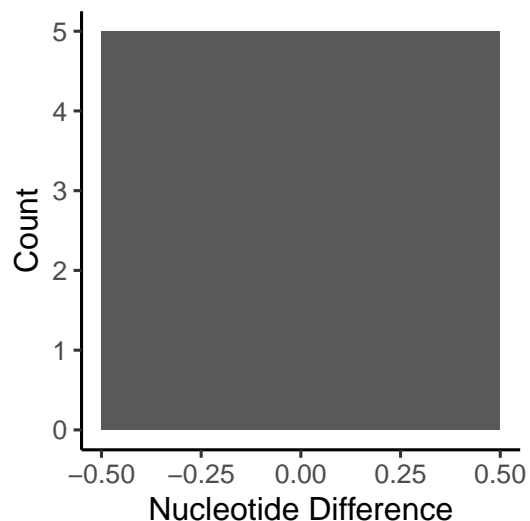
TRBV6-23*ap01

8497 sequences assigned
8472 (99.7%) exact matches, in which:
8460 unique CDR3
13 unique J



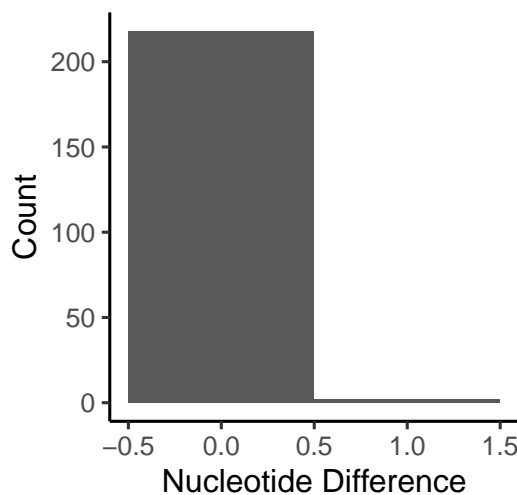
TRBV7-1*ap01

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



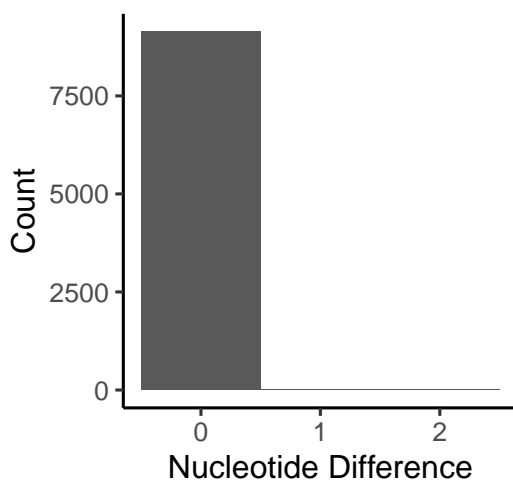
TRBV6-8*ap01

220 sequences assigned
218 (99.1%) exact matches, in which:
218 unique CDR3
12 unique J



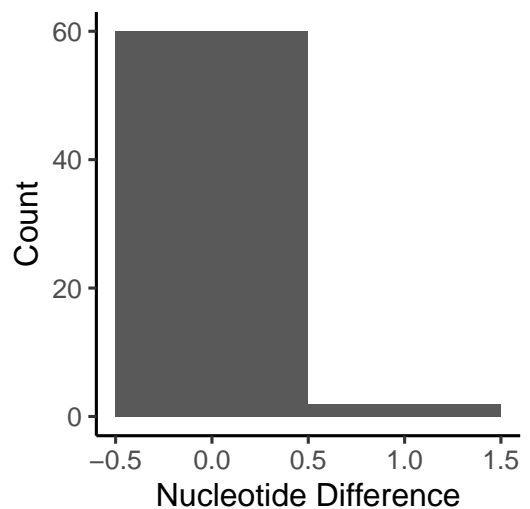
TRBV6-56*ap01

9148 sequences assigned
9136 (99.9%) exact matches, in which:
9122 unique CDR3
13 unique J



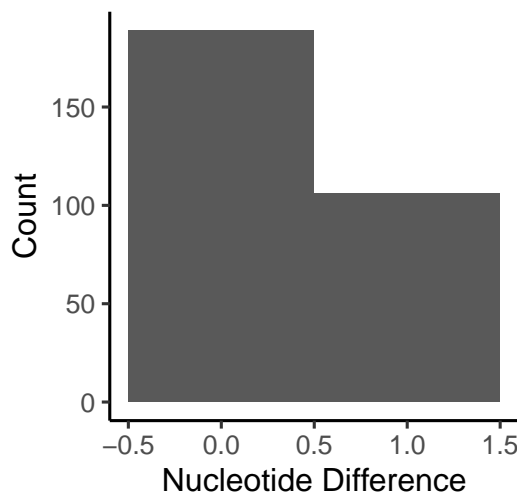
TRBV7-1*ap01_G291C_T

62 sequences assigned
60 (96.8%) exact matches, in which:
60 unique CDR3
11 unique J



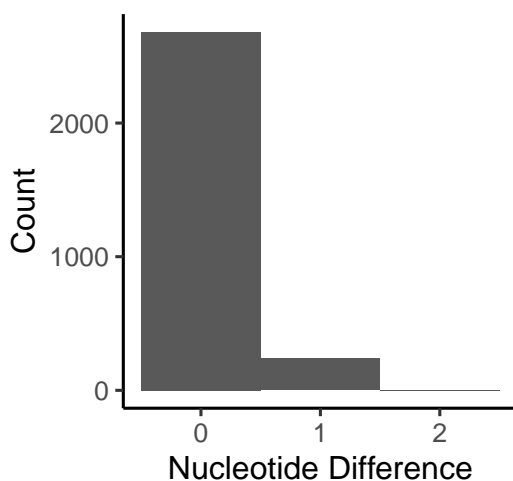
TRBV6-9*ap01

295 sequences assigned
189 (64.1%) exact matches, in which:
189 unique CDR3
13 unique J



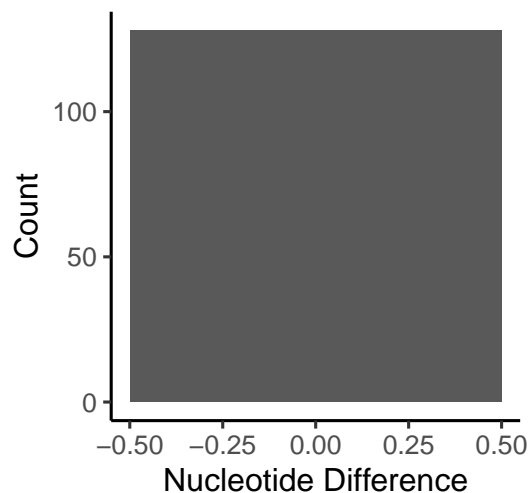
TRBV6-56*ap02

2921 sequences assigned
2681 (91.8%) exact matches, in which:
2676 unique CDR3
13 unique J



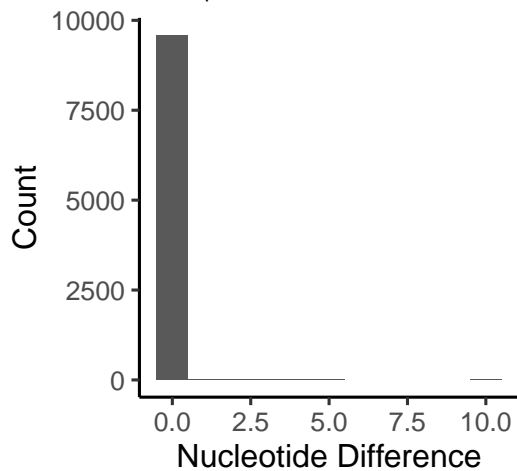
TRBV7-1*ap01_G291C_T

128 sequences assigned
128 (100%) exact matches, in which:
128 unique CDR3
13 unique J



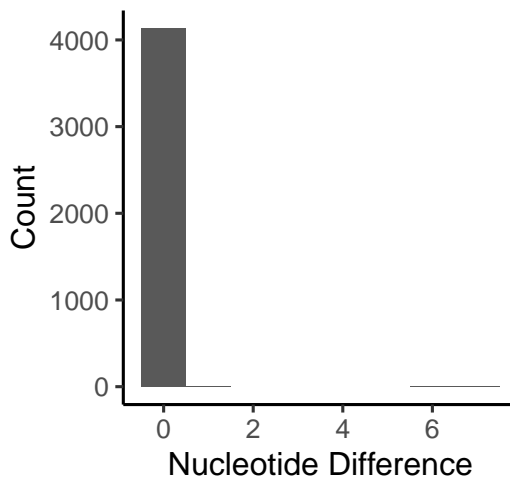
TRBV7-2*ap01

9614 sequences assigned
9588 (99.7%) exact matches, in which:
9583 unique CDR3
13 unique J



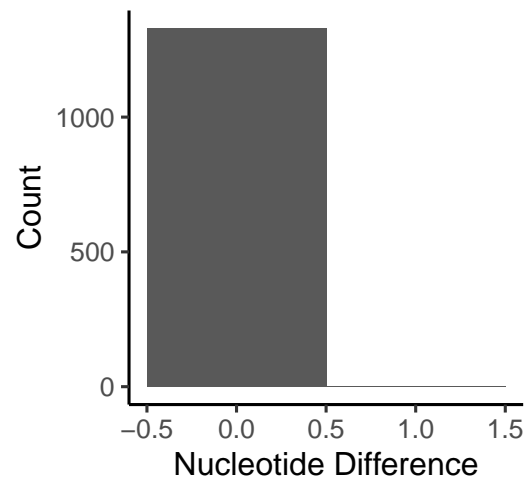
TRBV7-6*ap01

4144 sequences assigned
4133 (99.7%) exact matches, in which:
4130 unique CDR3
13 unique J



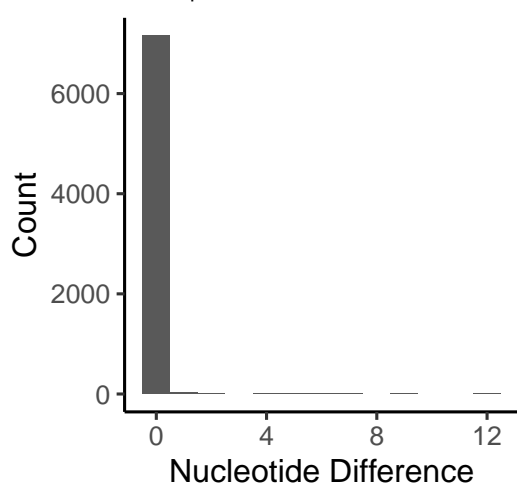
TRBV7-8*ap01

1331 sequences assigned
1329 (99.8%) exact matches, in which:
1329 unique CDR3
13 unique J



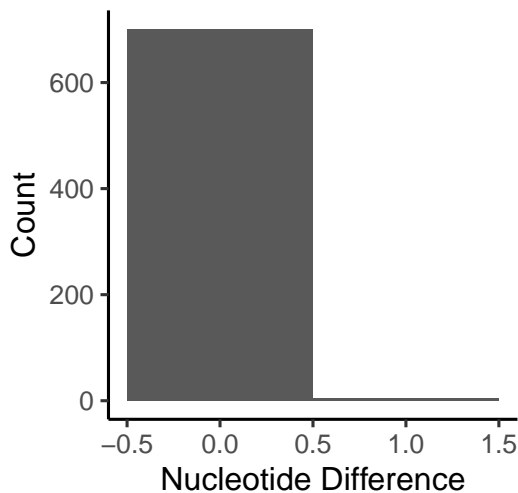
TRBV7-3*ap01

7184 sequences assigned
7156 (99.6%) exact matches, in which:
7149 unique CDR3
13 unique J



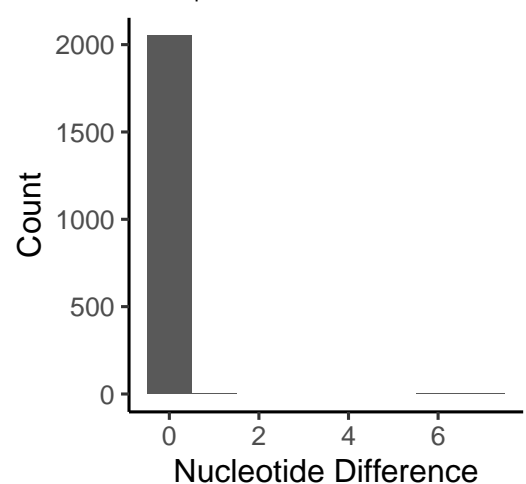
TRBV7-7*ap01

705 sequences assigned
701 (99.4%) exact matches, in which:
701 unique CDR3
13 unique J



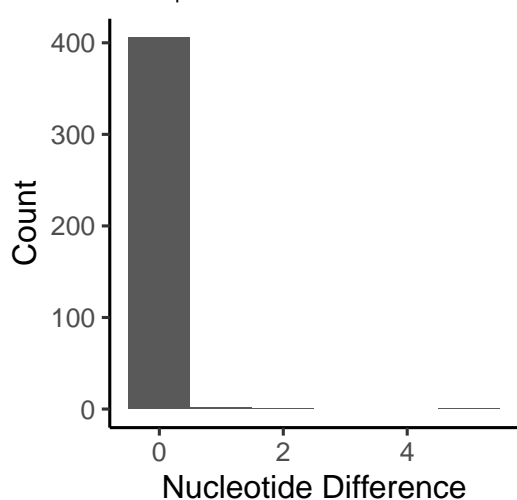
TRBV7-8*ap02

2055 sequences assigned
2051 (99.8%) exact matches, in which:
2049 unique CDR3
12 unique J



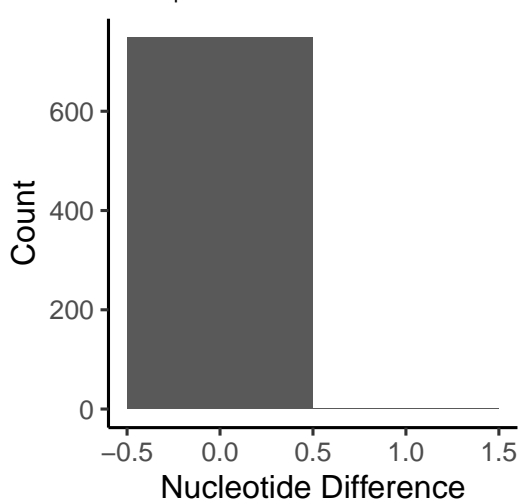
TRBV7-4*ap01

410 sequences assigned
406 (99%) exact matches, in which:
404 unique CDR3
13 unique J



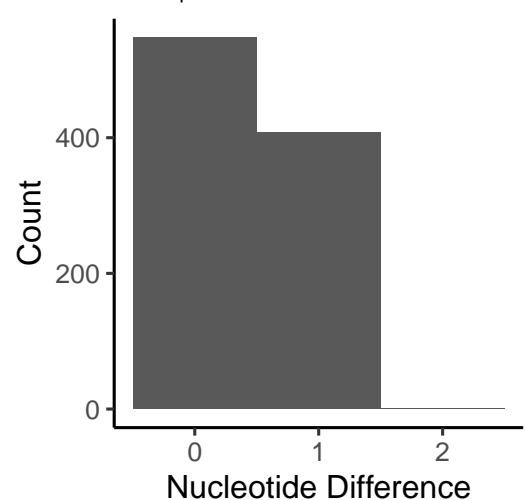
TRBV7-7*ap01_C315T

750 sequences assigned
749 (99.9%) exact matches, in which:
748 unique CDR3
12 unique J



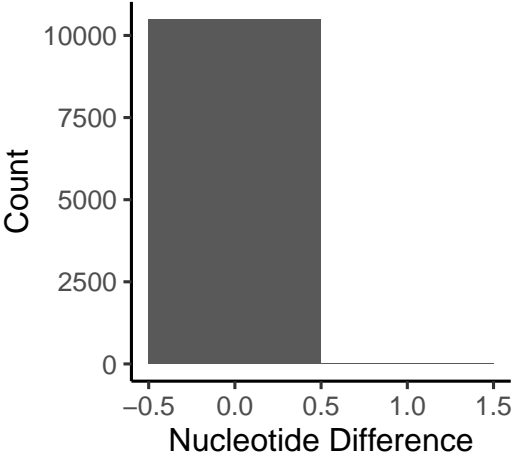
TRBV7-8*ap03

957 sequences assigned
548 (57.3%) exact matches, in which:
548 unique CDR3
13 unique J



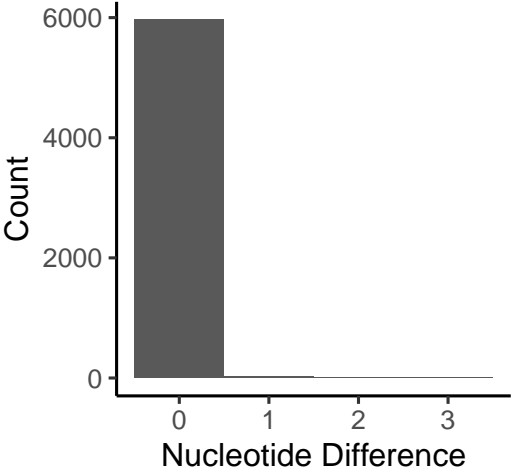
TRBV7-9*ap01

10508 sequences assigned
10496 (99.9%) exact matches, in which:
10485 unique CDR3
13 unique J



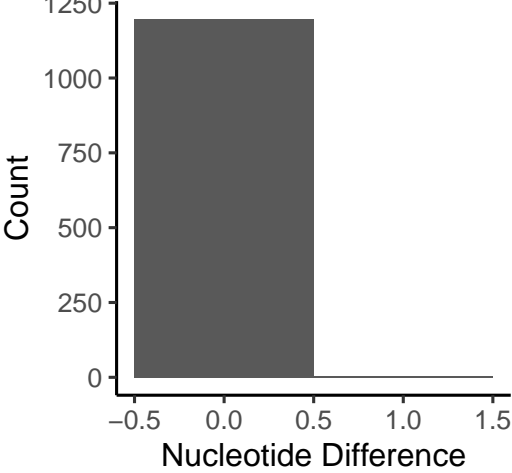
TRBV29-1*ap01

5987 sequences assigned
5965 (99.6%) exact matches, in which:
5954 unique CDR3
13 unique J

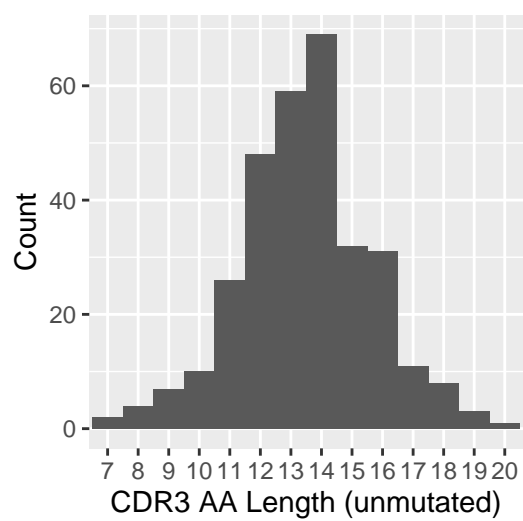


TRBV29-1*ap02

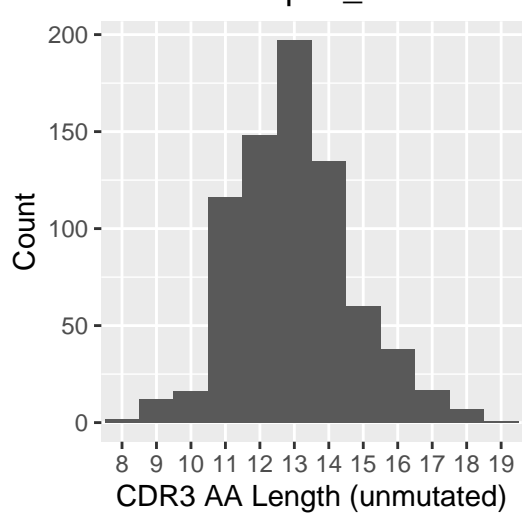
1201 sequences assigned
1197 (99.7%) exact matches, in which:
1197 unique CDR3
13 unique J



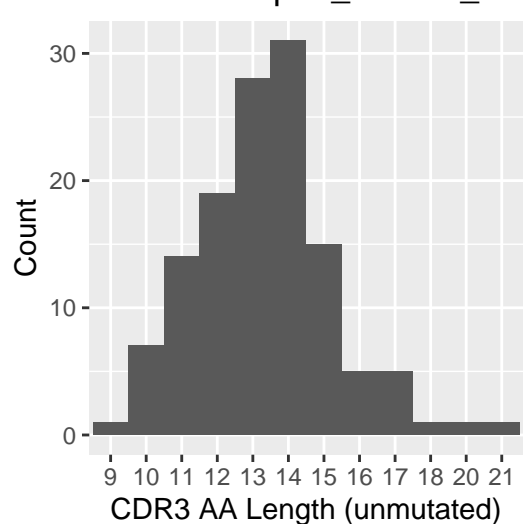
TRBV12-2*ap01_G301A



TRBV7-7*ap01_C315T



TRBV7-1*ap01_G291C_T296C_C314T



TRBV7-1*ap01_G291C_T296C

