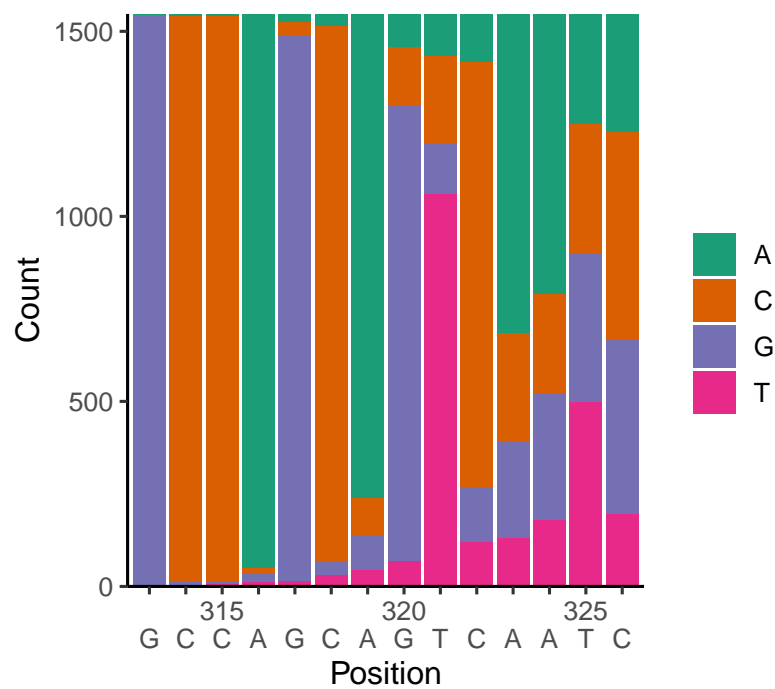
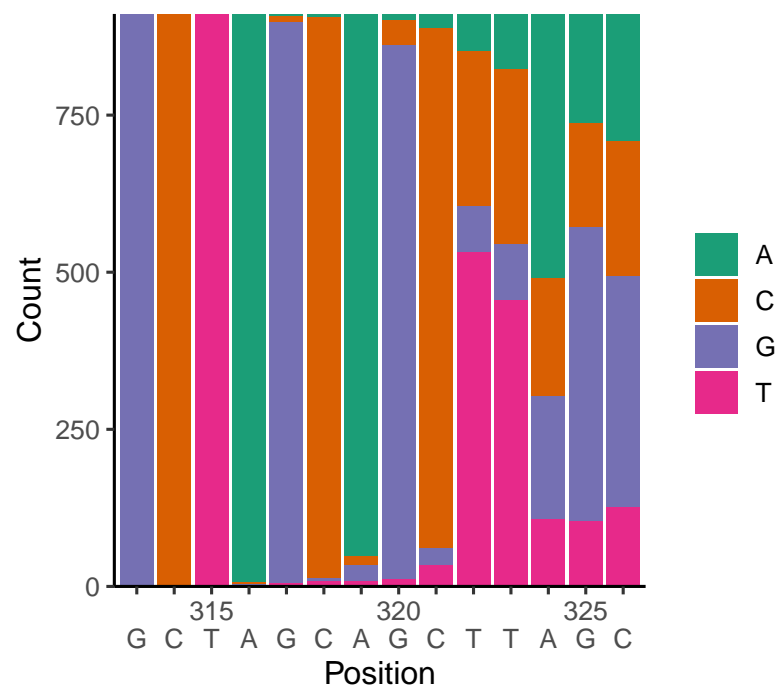


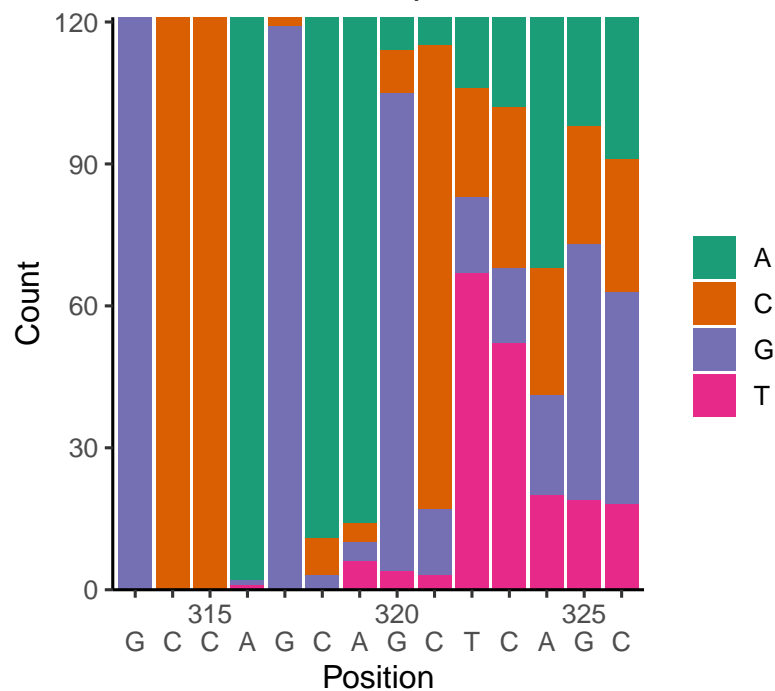
Gene TRBV23-1*ap01_T304C



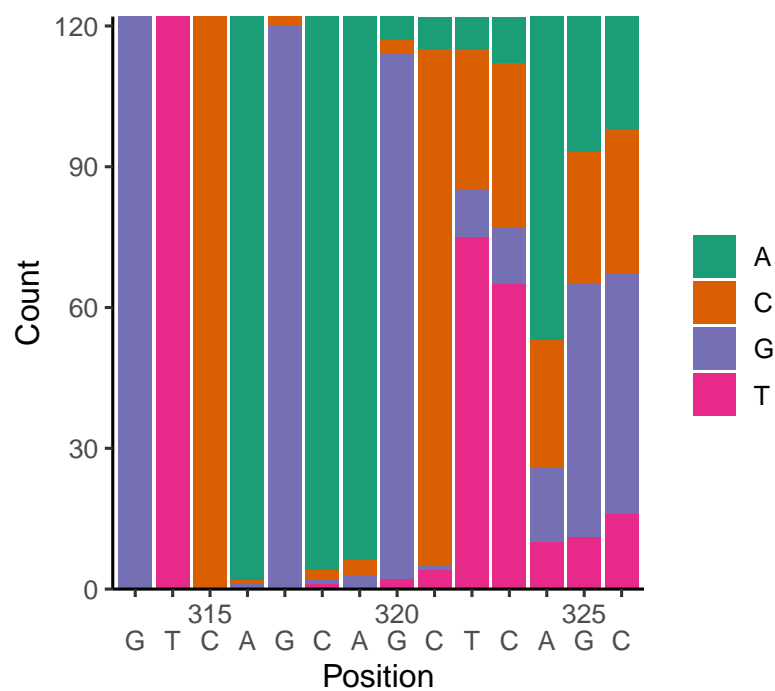
Gene TRBV7-7*ap01_C315T



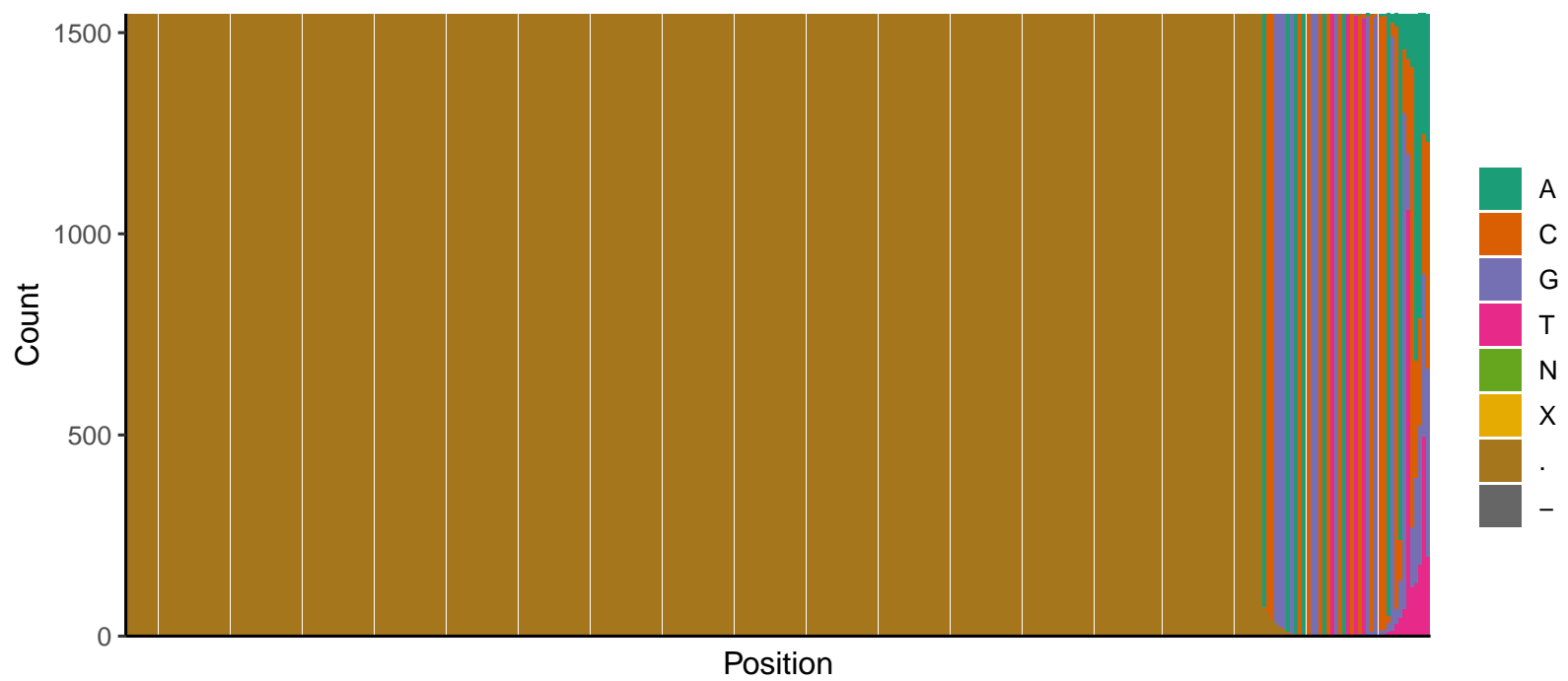
Gene TRBV7-1*ap01_G291C_T296C



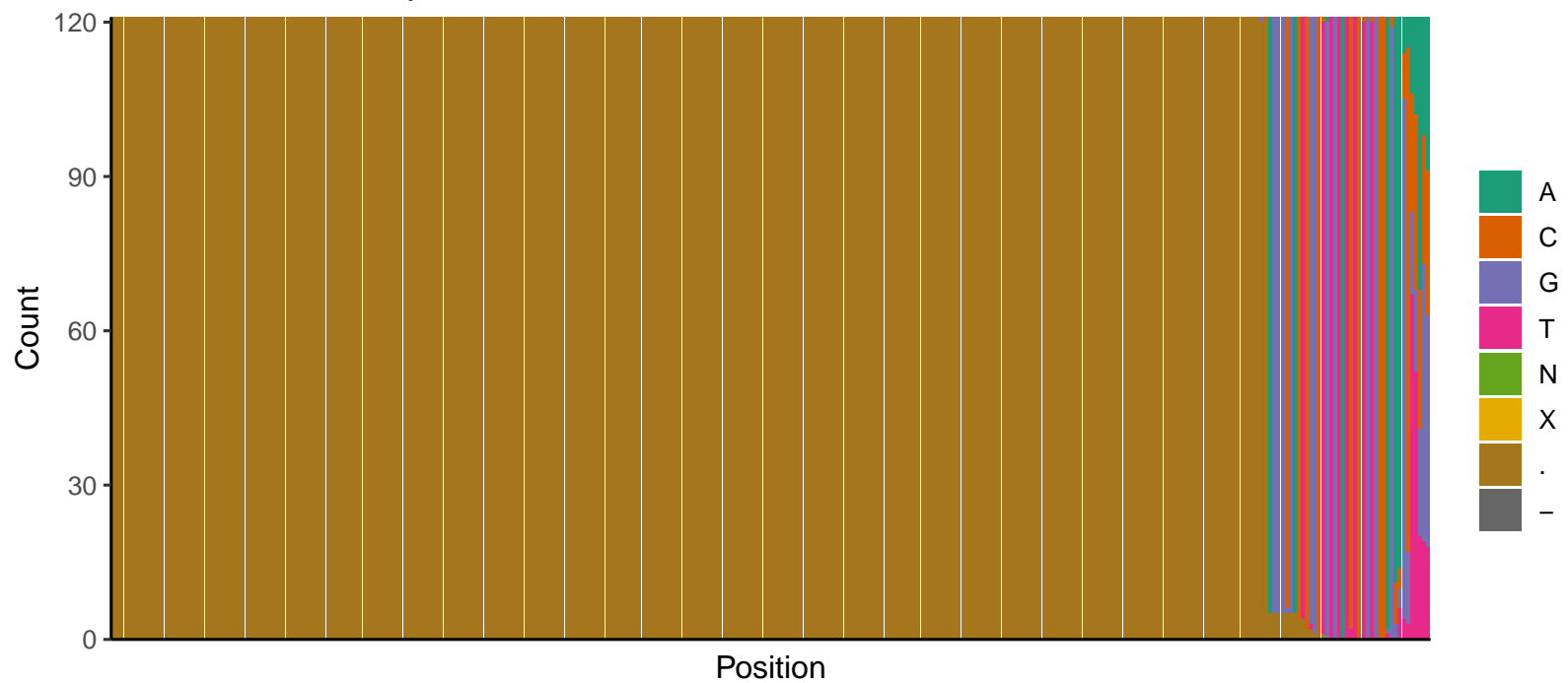
Gene TRBV7-1*ap01_G291C_T296C_C314T



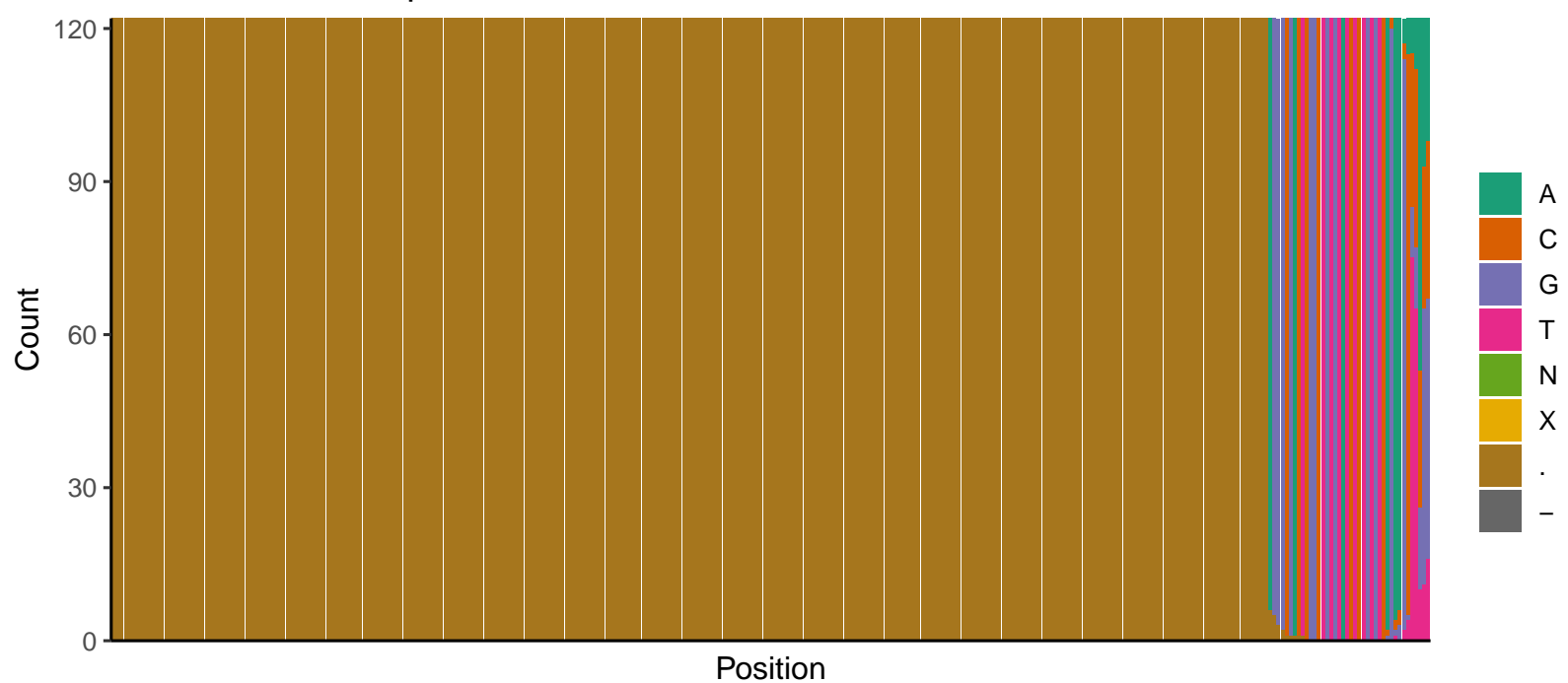
Gene TRBV23-1*ap01_T304C



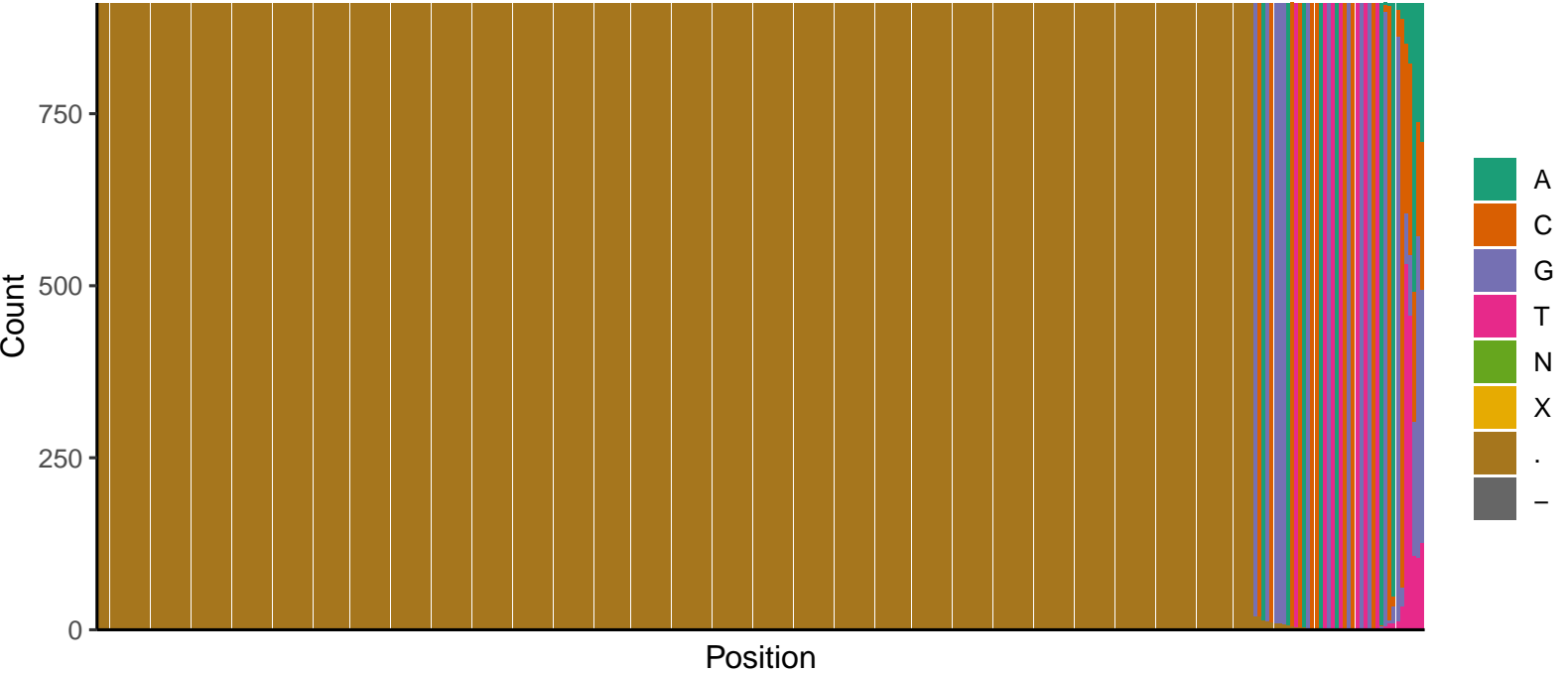
Gene TRBV7-1*ap01_G291C_T296C



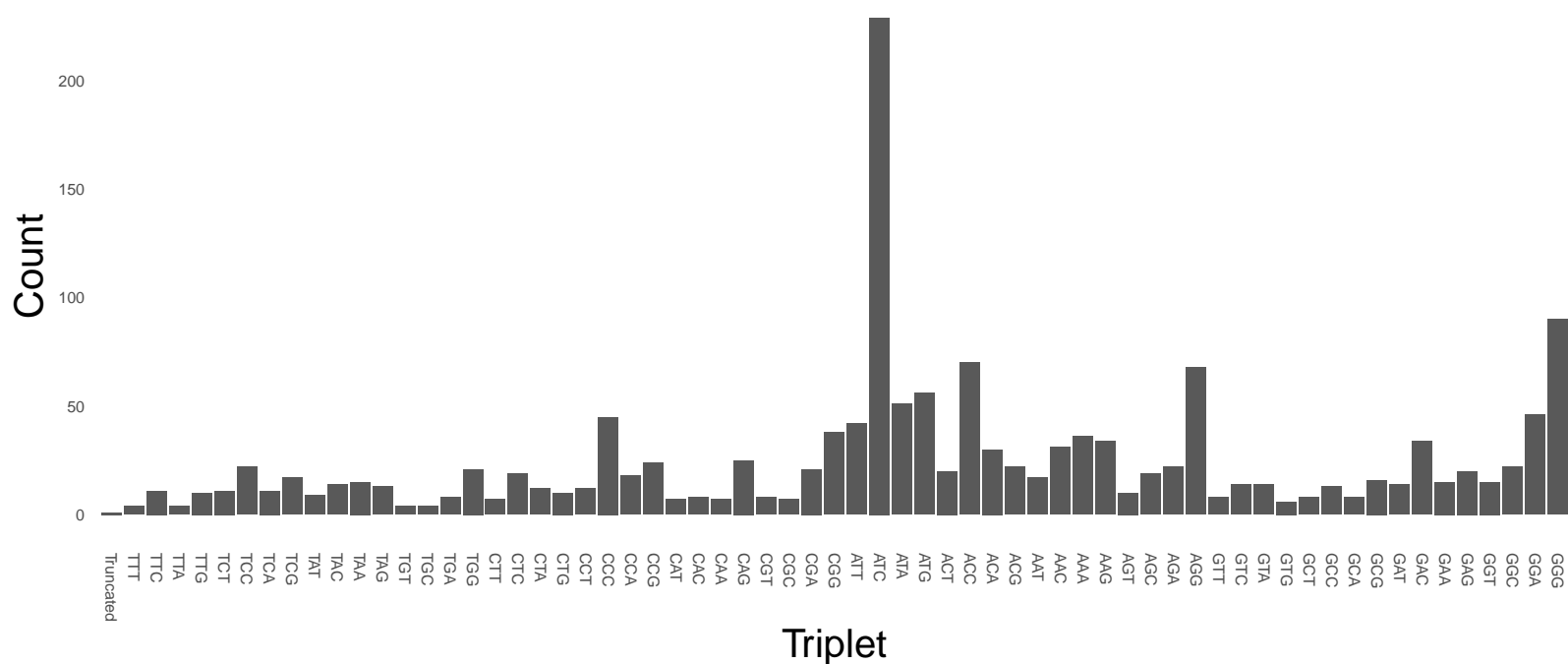
Gene TRBV7-1*ap01_G291C_T296C_C314T



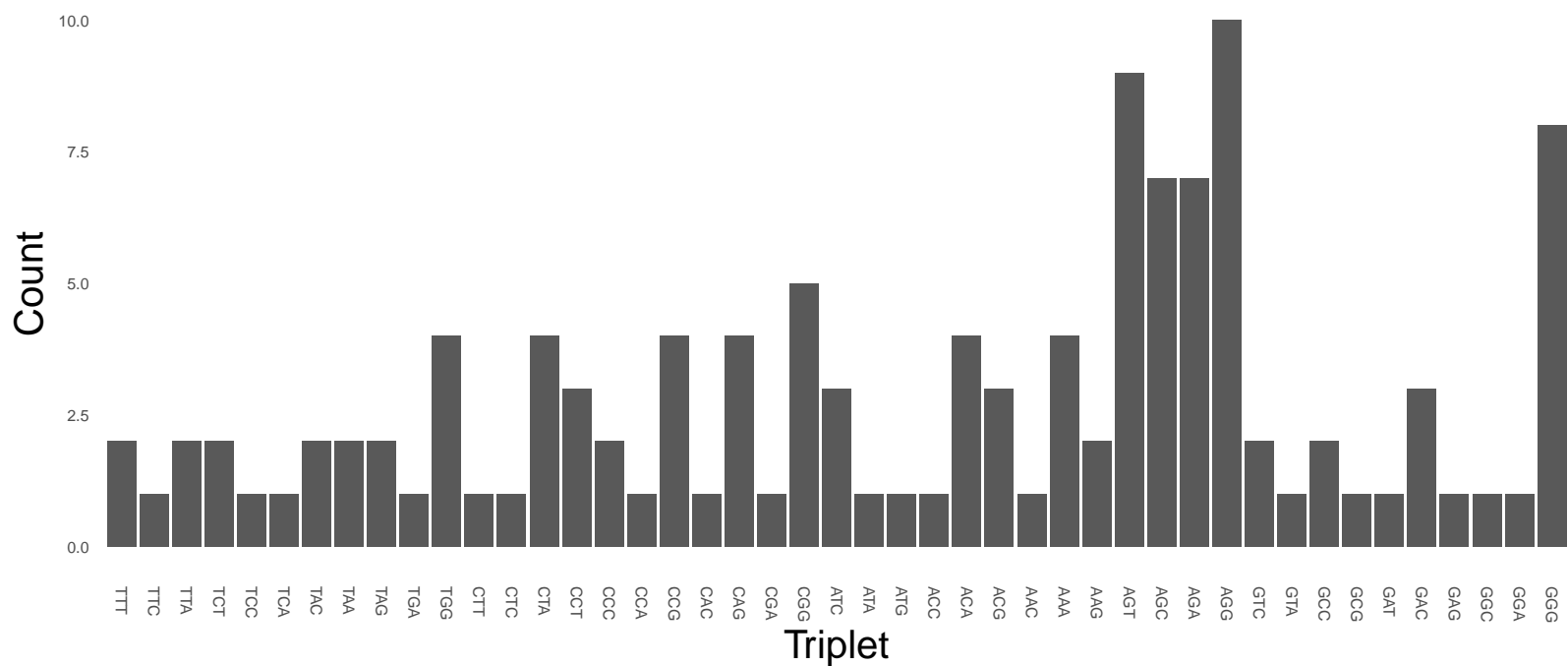
Gene TRBV7-7*ap01_C315T



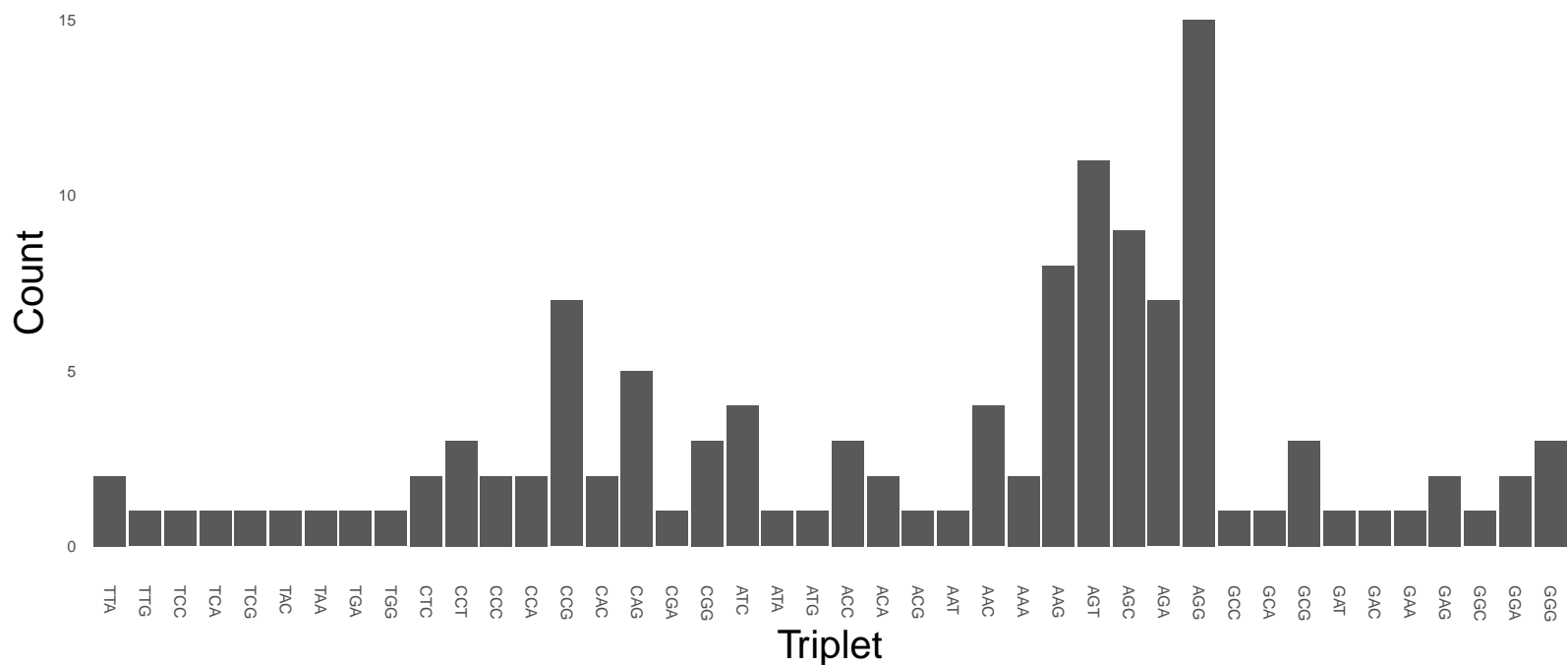
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



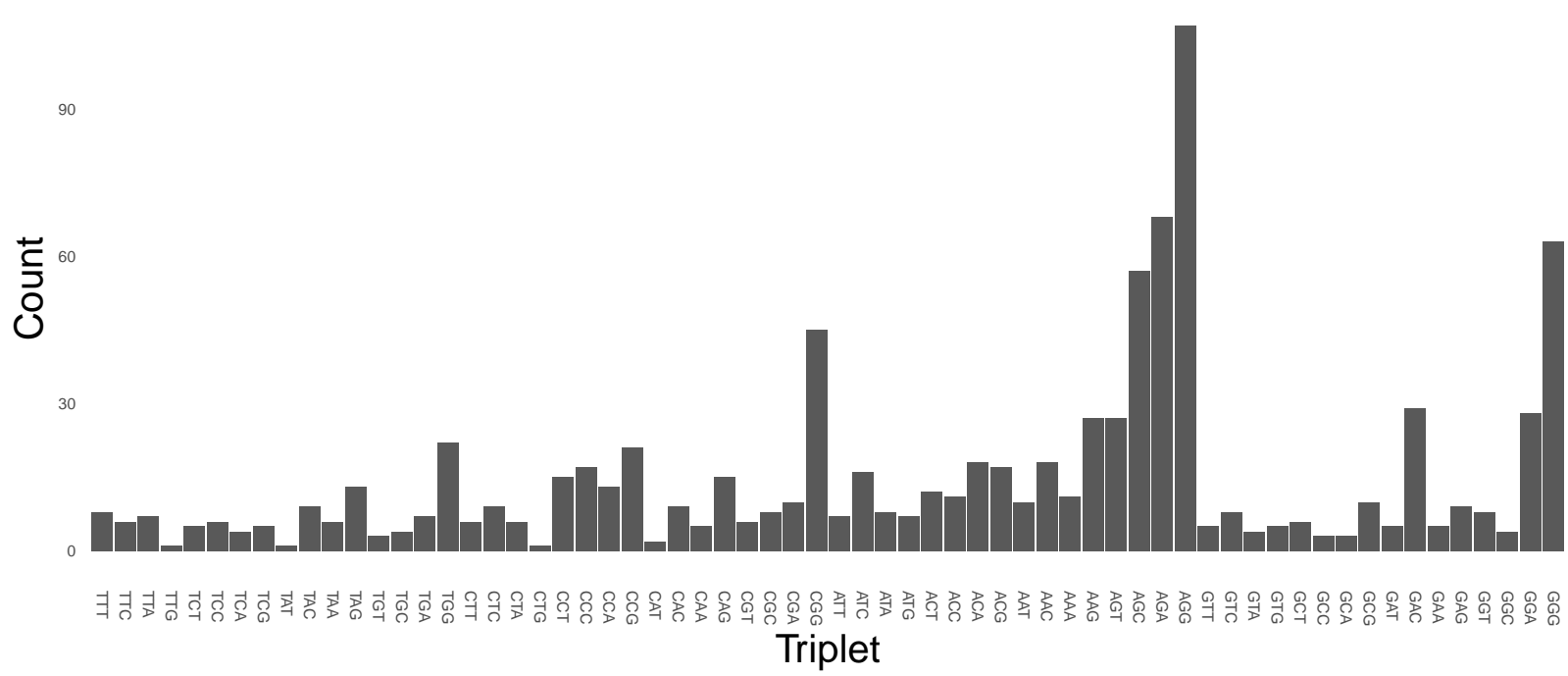
TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet



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

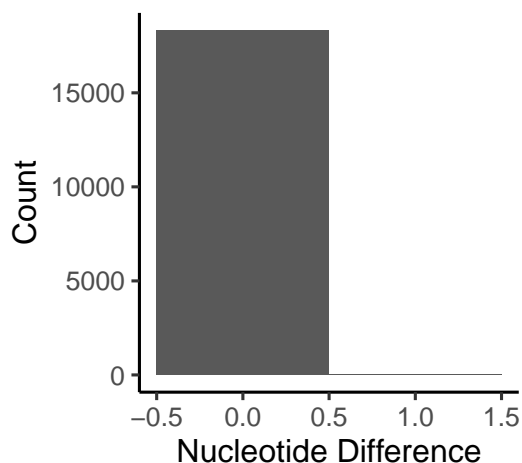


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



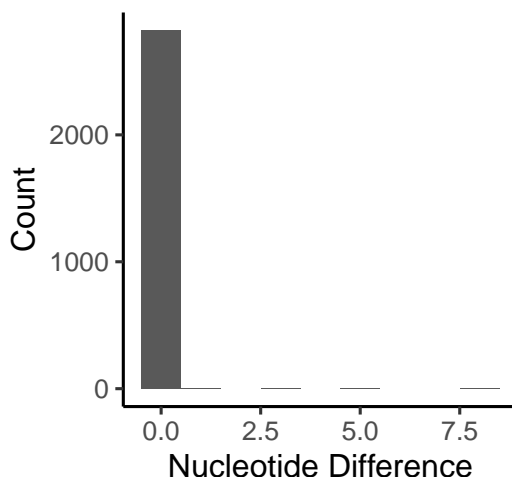
TRBV20-1*ap01

18353 sequences assigned
18332 (99.9%) exact matches, in which:
18328 unique CDR3
13 unique J



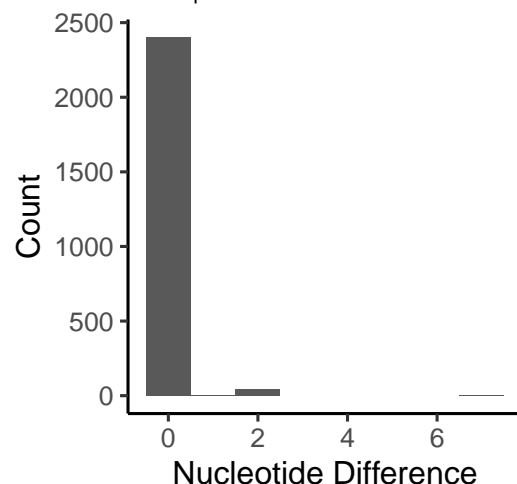
TRBV10-2*ap01

2830 sequences assigned
2823 (99.8%) exact matches, in which:
2821 unique CDR3
13 unique J



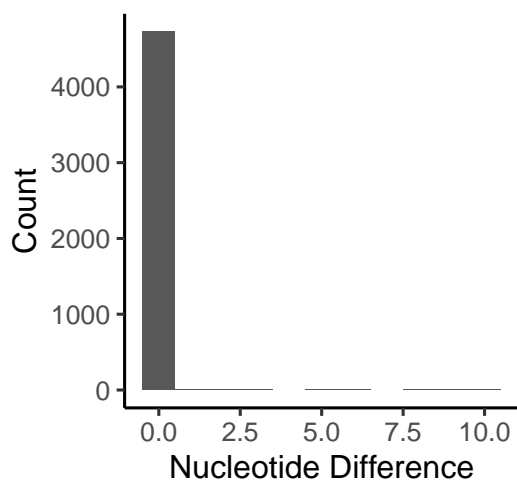
TRBV13*ap01

2448 sequences assigned
2401 (98.1%) exact matches, in which:
2400 unique CDR3
13 unique J



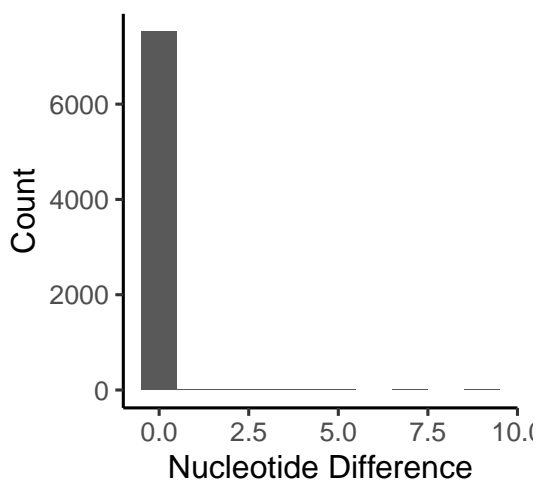
TRBV10-1*ap01

4747 sequences assigned
4728 (99.6%) exact matches, in which:
4728 unique CDR3
13 unique J



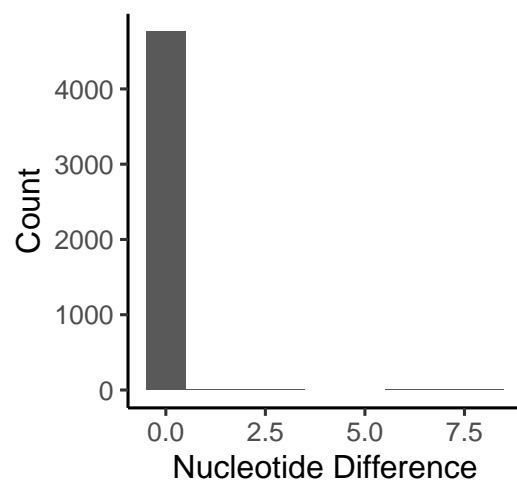
TRBV10-3*ap01

7540 sequences assigned
7520 (99.7%) exact matches, in which:
7520 unique CDR3
13 unique J



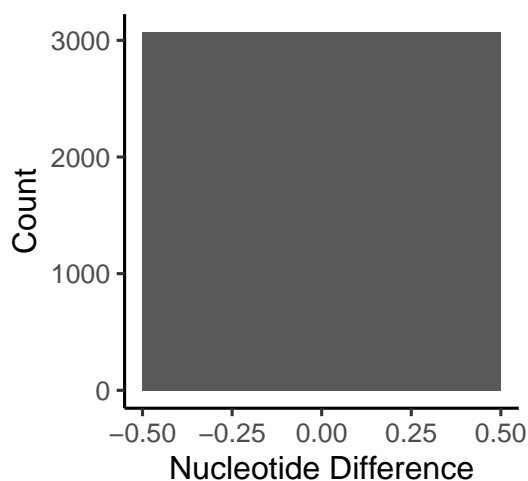
TRBV14*ap01

4775 sequences assigned
4760 (99.7%) exact matches, in which:
4759 unique CDR3
14 unique J



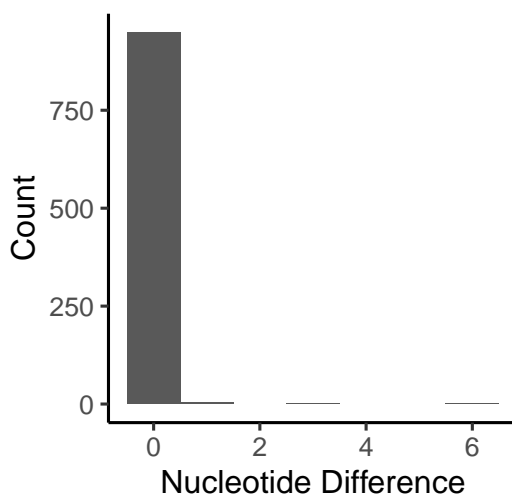
TRBV20-1*ap02

3071 sequences assigned
3071 (100%) exact matches, in which:
3069 unique CDR3
13 unique J



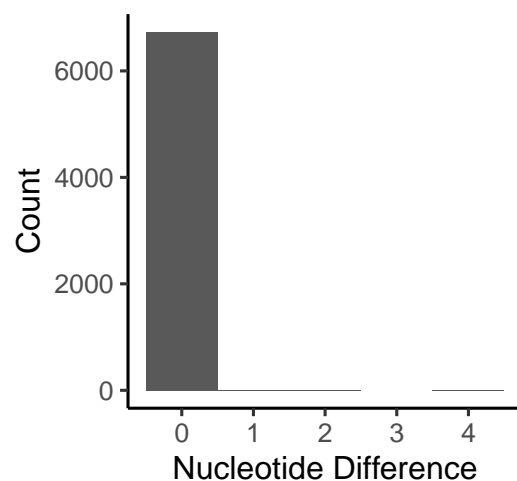
TRBV1*ap01

955 sequences assigned
949 (99.4%) exact matches, in which:
948 unique CDR3
13 unique J



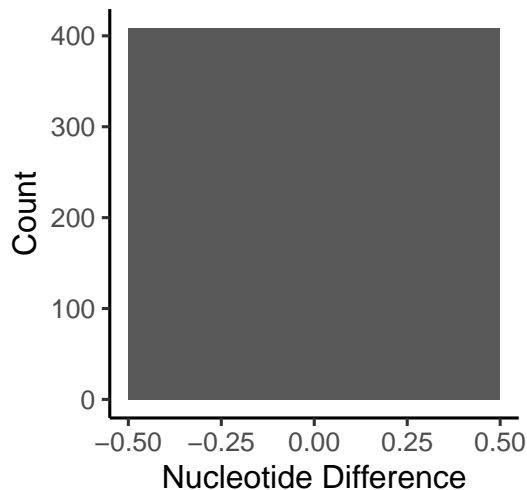
TRBV15*ap02

6741 sequences assigned
6730 (99.8%) exact matches, in which:
6724 unique CDR3
13 unique J



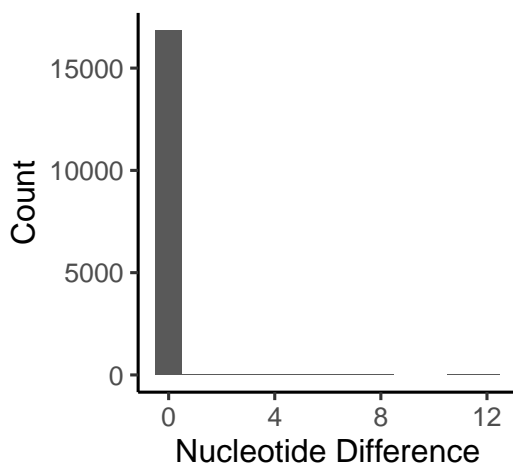
TRBV16*ap01

409 sequences assigned
409 (100%) exact matches, in which:
409 unique CDR3
13 unique J



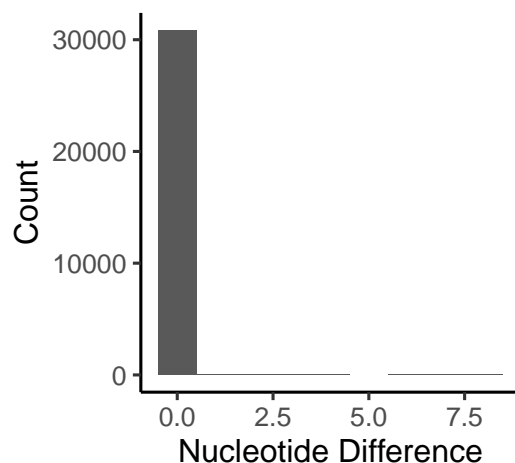
TRBV19*ap01

16938 sequences assigned
16856 (99.5%) exact matches, in which:
16856 unique CDR3
13 unique J



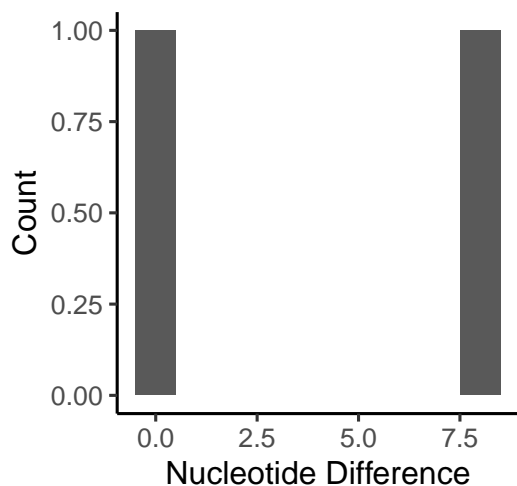
TRBV28*ap01

30942 sequences assigned
30854 (99.7%) exact matches, in which:
30850 unique CDR3
13 unique J



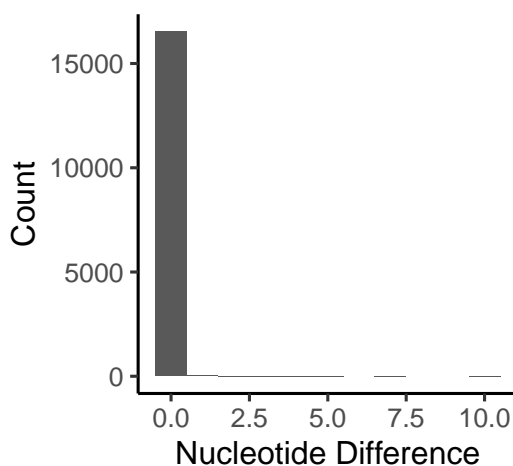
TRBV17*ap01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



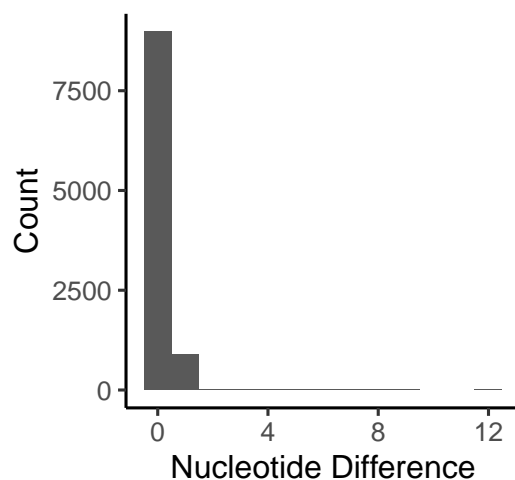
TRBV2*ap01

16587 sequences assigned
16537 (99.7%) exact matches, in which:
16515 unique CDR3
13 unique J



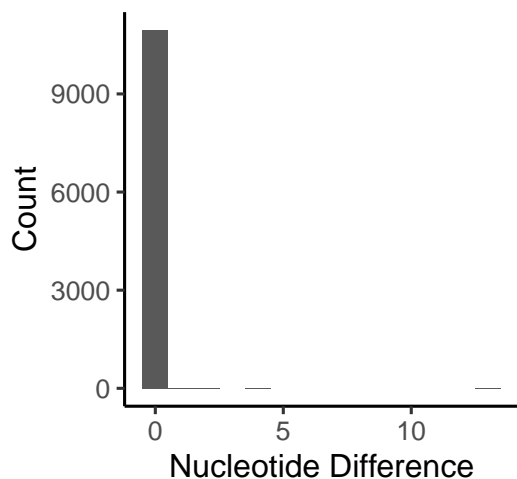
TRBV30*ap01

9914 sequences assigned
8978 (90.6%) exact matches, in which:
8959 unique CDR3
13 unique J



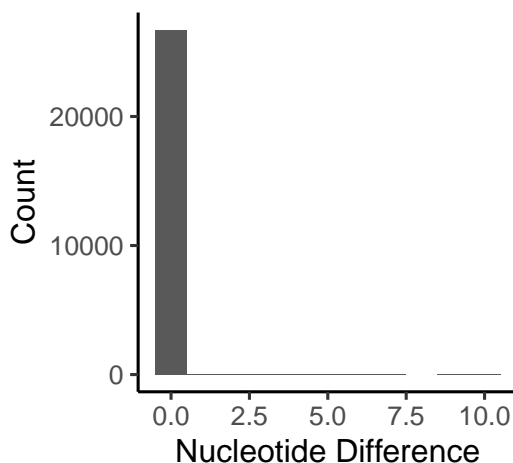
TRBV18*ap01

10960 sequences assigned
10952 (99.9%) exact matches, in which:
10951 unique CDR3
13 unique J



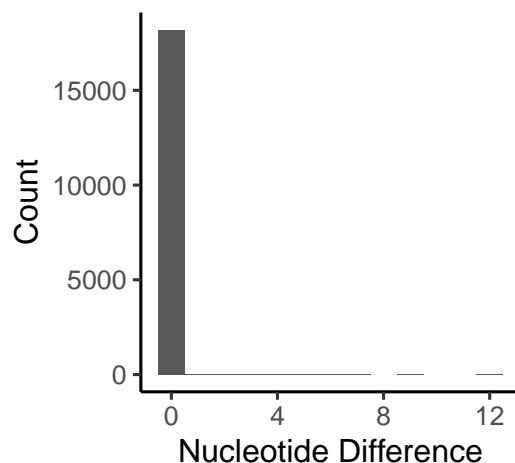
TRBV27*ap01

26815 sequences assigned
26719 (99.6%) exact matches, in which:
26669 unique CDR3
13 unique J



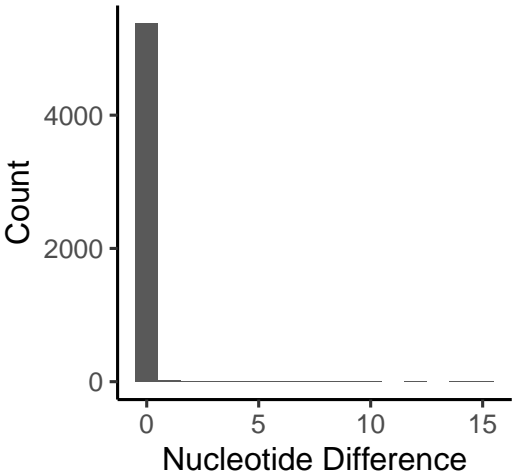
TRBV9*ap01

18233 sequences assigned
18195 (99.8%) exact matches, in which:
18183 unique CDR3
13 unique J



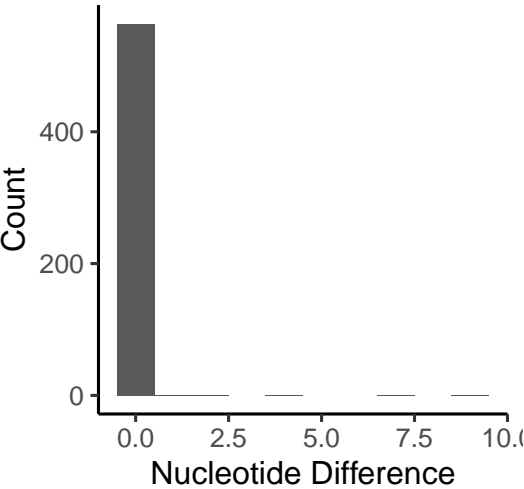
TRBV21-1*ap01

5442 sequences assigned
5377 (98.8%) exact matches, in which:
5377 unique CDR3
14 unique J



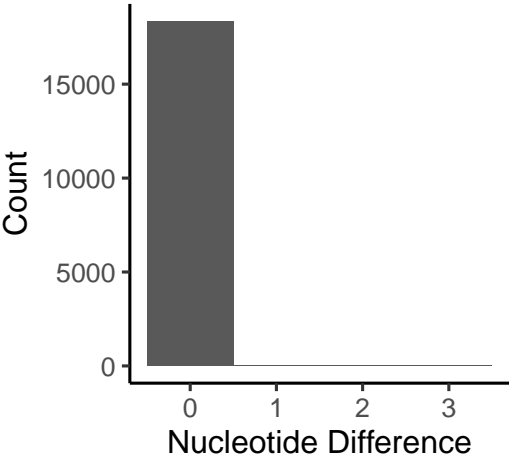
TRBV12-1*ap01

569 sequences assigned
564 (99.1%) exact matches, in which:
564 unique CDR3
13 unique J



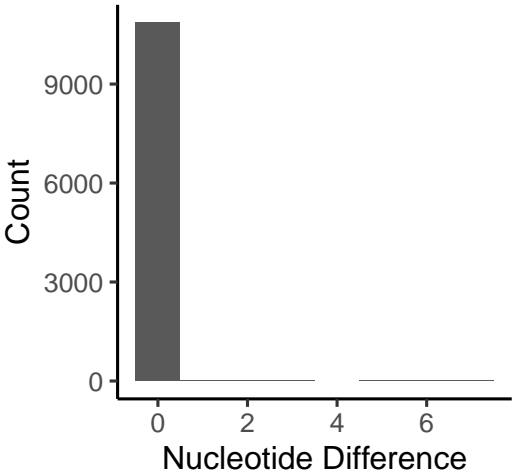
TRBV12-34*ap01

18392 sequences assigned
18354 (99.8%) exact matches, in which:
18353 unique CDR3
13 unique J



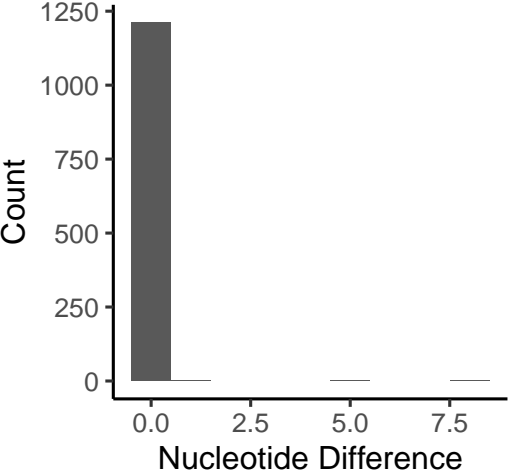
TRBV11-2*ap01

10882 sequences assigned
10859 (99.8%) exact matches, in which:
10859 unique CDR3
13 unique J



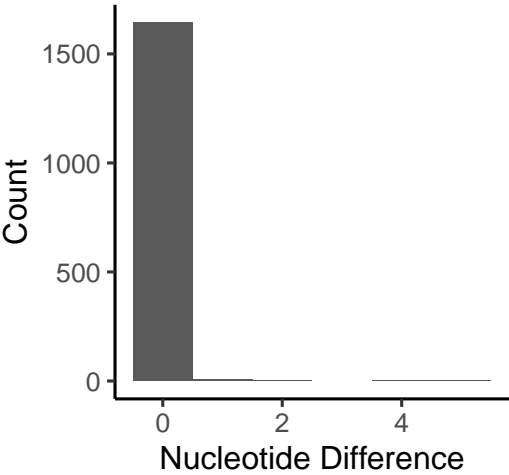
TRBV12-2*ap01

1214 sequences assigned
1211 (99.8%) exact matches, in which:
1210 unique CDR3
13 unique J



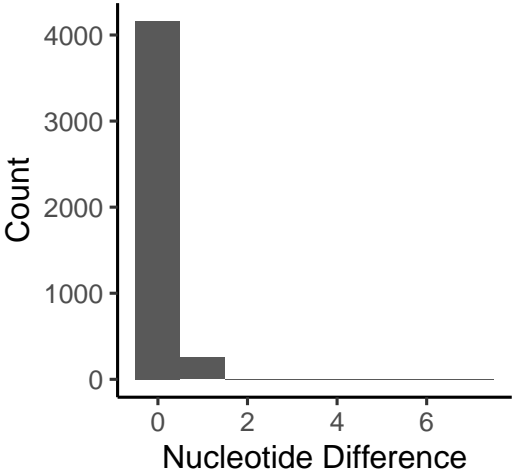
TRBV23-1*ap01

1654 sequences assigned
1643 (99.3%) exact matches, in which:
1643 unique CDR3
13 unique J



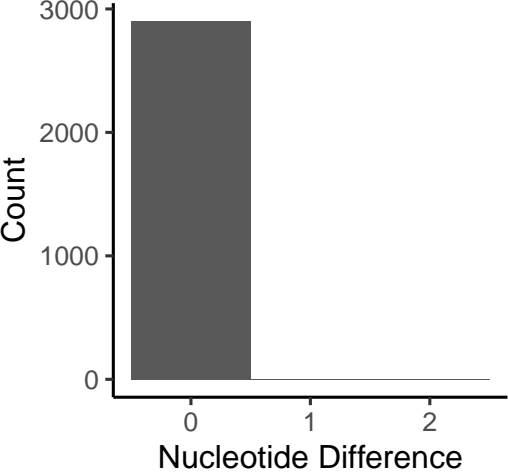
TRBV11-3*ap01

4426 sequences assigned
4162 (94%) exact matches, in which:
4162 unique CDR3
13 unique J



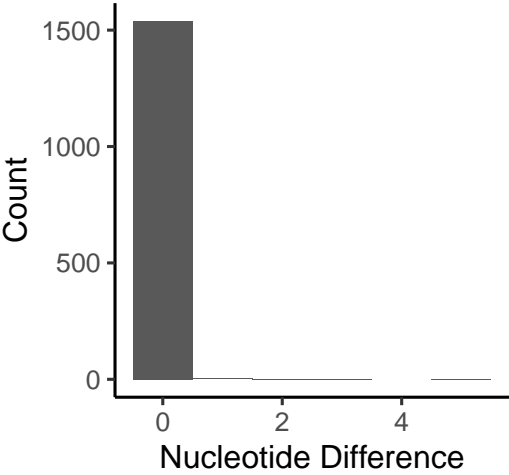
TRBV12-5*ap01

2904 sequences assigned
2902 (99.9%) exact matches, in which:
2902 unique CDR3
13 unique J



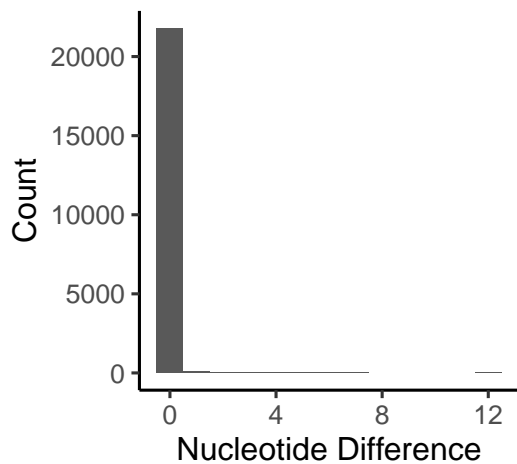
TRBV23-1*ap01_T304C

1547 sequences assigned
1539 (99.5%) exact matches, in which:
1538 unique CDR3
13 unique J



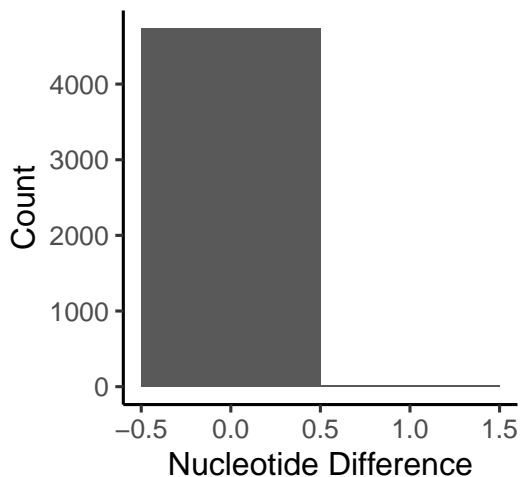
TRBV3–12*ap01

21890 sequences assigned
21796 (99.6%) exact matches, in which:
21771 unique CDR3
13 unique J



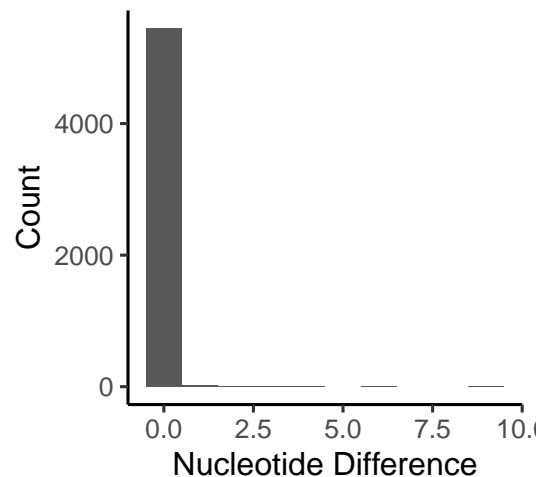
TRBV4–2*ap01

4754 sequences assigned
4736 (99.6%) exact matches, in which:
4735 unique CDR3
13 unique J



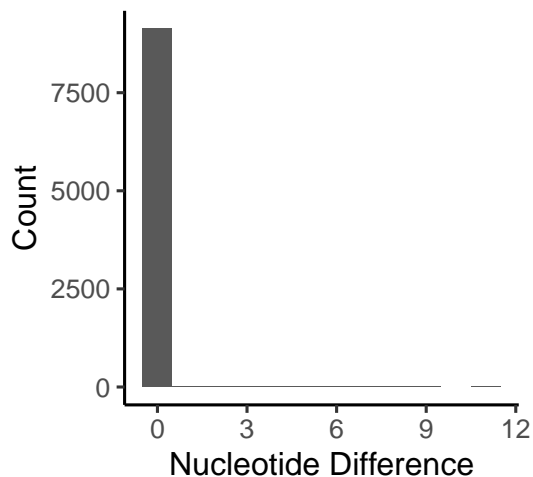
TRBV25–1*ap01

5474 sequences assigned
5447 (99.5%) exact matches, in which:
5436 unique CDR3
13 unique J



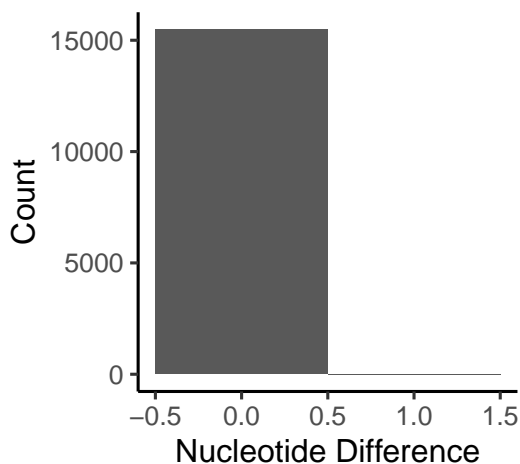
TRBV24–1*ap01

9183 sequences assigned
9130 (99.4%) exact matches, in which:
9114 unique CDR3
13 unique J



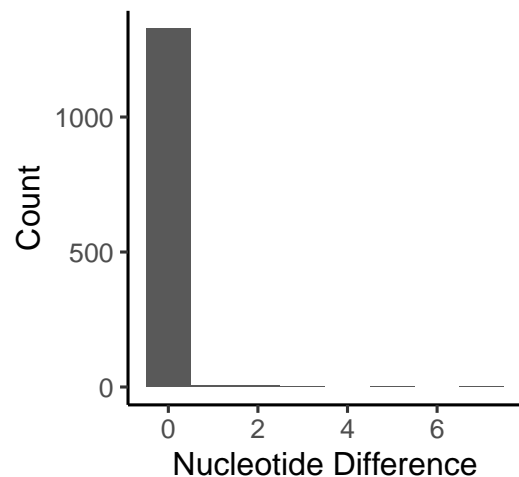
TRBV4–3*ap01

15506 sequences assigned
15484 (99.9%) exact matches, in which:
15480 unique CDR3
13 unique J



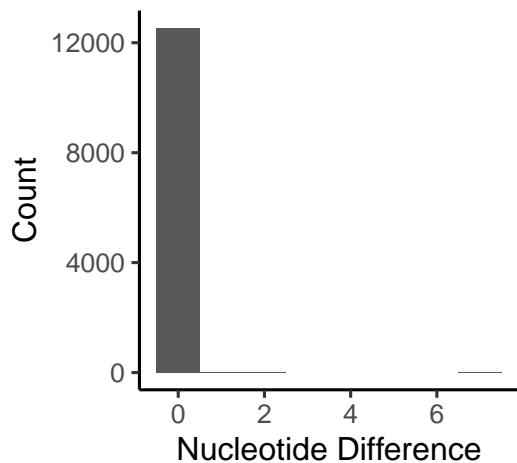
TRBV5–3*ap01

1344 sequences assigned
1327 (98.7%) exact matches, in which:
1327 unique CDR3
13 unique J



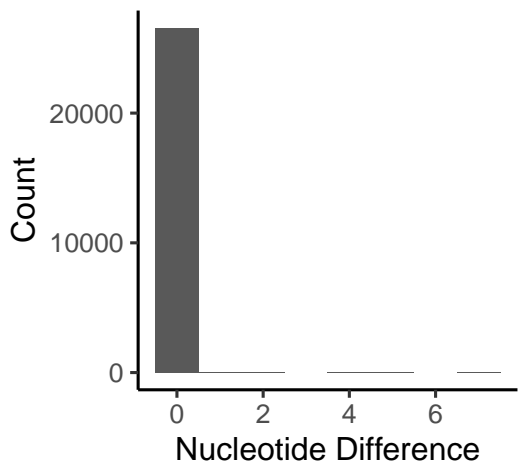
TRBV4–1*ap01

12561 sequences assigned
12545 (99.9%) exact matches, in which:
12542 unique CDR3
13 unique J



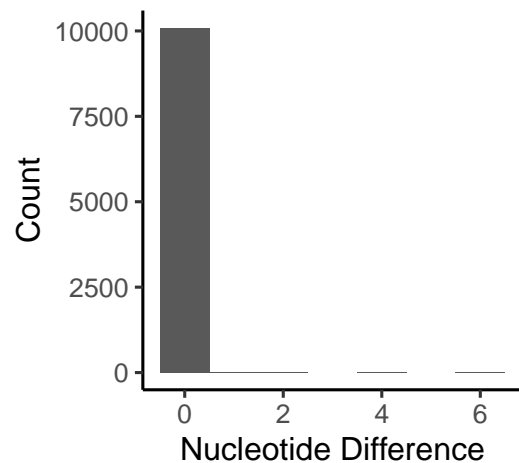
TRBV5–1*ap01

26622 sequences assigned
26575 (99.8%) exact matches, in which:
26553 unique CDR3
13 unique J



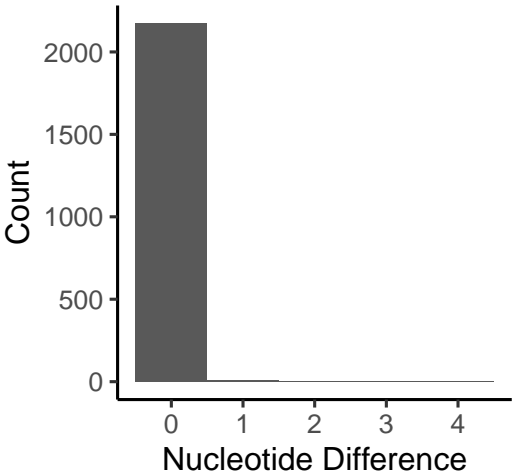
TRBV5–4*ap01

10121 sequences assigned
10092 (99.7%) exact matches, in which:
10091 unique CDR3
13 unique J



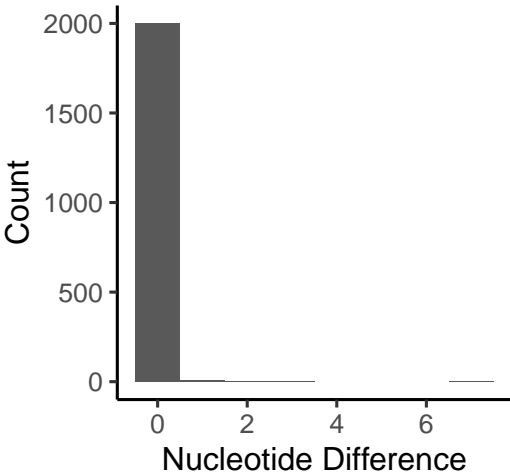
TRBV5-5*ap01

2188 sequences assigned
2173 (99.3%) exact matches, in which:
2172 unique CDR3
13 unique J



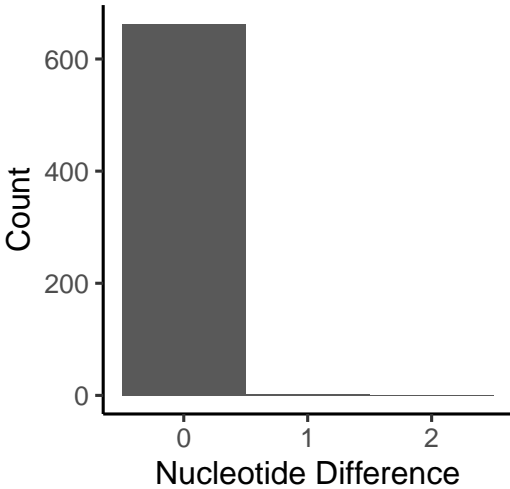
TRBV5-8*ap01

2014 sequences assigned
2000 (99.3%) exact matches, in which:
2000 unique CDR3
13 unique J



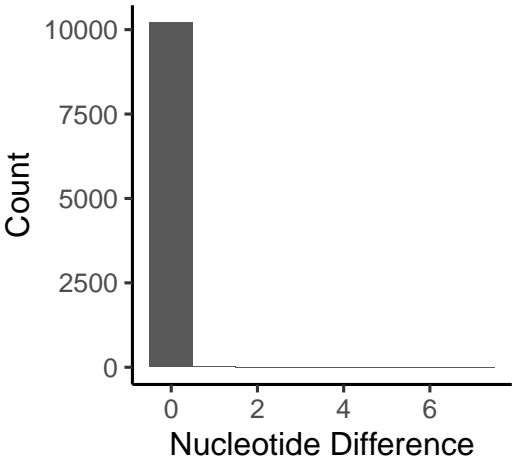
TRBV6-7*ap01

666 sequences assigned
663 (99.5%) exact matches, in which:
663 unique CDR3
13 unique J



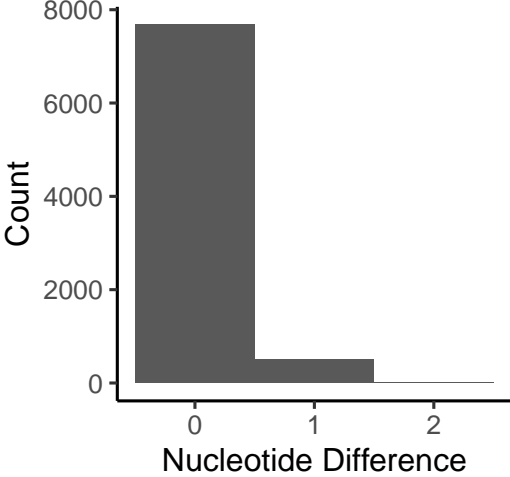
TRBV5-6*ap01

10241 sequences assigned
10213 (99.7%) exact matches, in which:
10187 unique CDR3
13 unique J



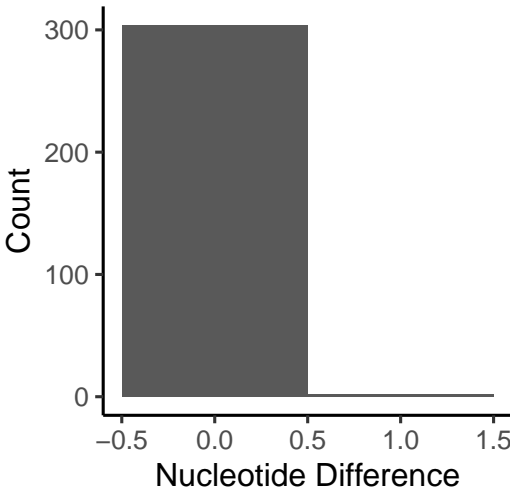
TRBV6-1*ap01

8185 sequences assigned
7678 (93.8%) exact matches, in which:
7668 unique CDR3
13 unique J



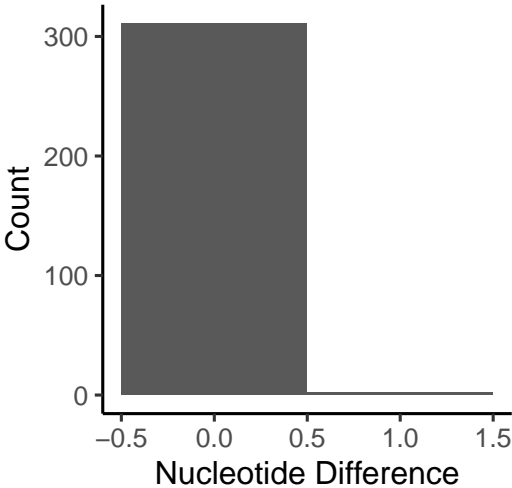
TRBV6-8*ap01

306 sequences assigned
304 (99.3%) exact matches, in which:
304 unique CDR3
13 unique J



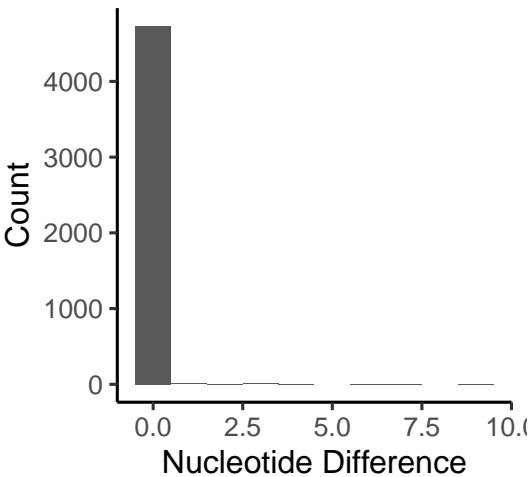
TRBV5-7*ap01

313 sequences assigned
311 (99.4%) exact matches, in which:
311 unique CDR3
13 unique J



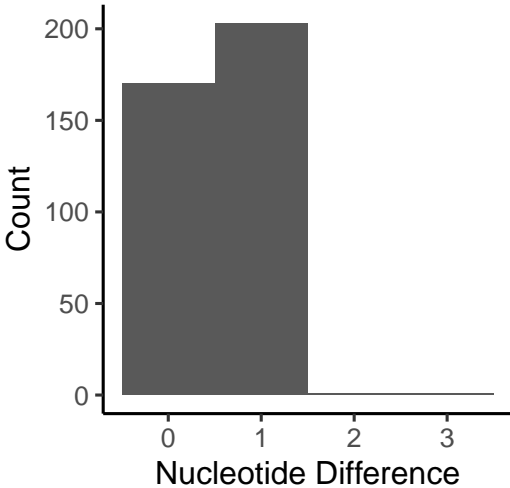
TRBV6-4*ap01

4765 sequences assigned
4731 (99.3%) exact matches, in which:
4731 unique CDR3
13 unique J



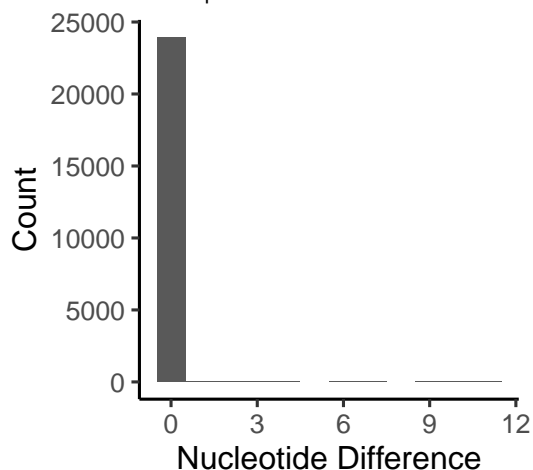
TRBV6-9*ap01

375 sequences assigned
170 (45.3%) exact matches, in which:
170 unique CDR3
13 unique J



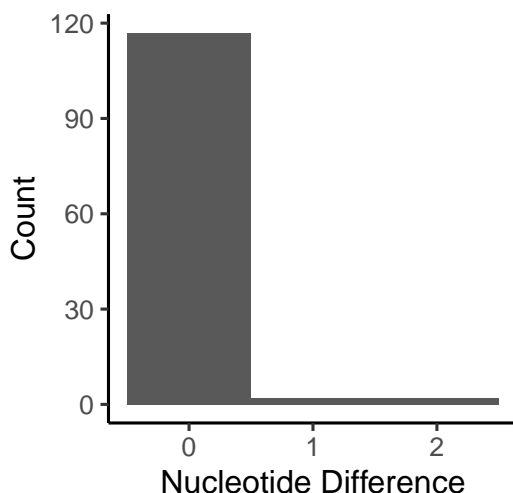
TRBV6-23*ap01

24010 sequences assigned
23948 (99.7%) exact matches, in which:
23930 unique CDR3
13 unique J



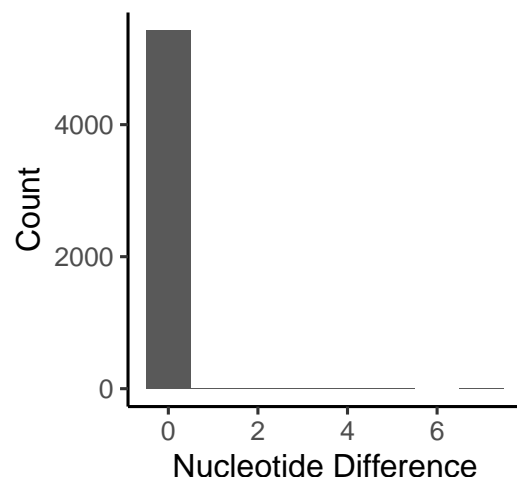
TRBV7-1*ap01_G291C_

121 sequences assigned
117 (96.7%) exact matches, in which:
117 unique CDR3
11 unique J



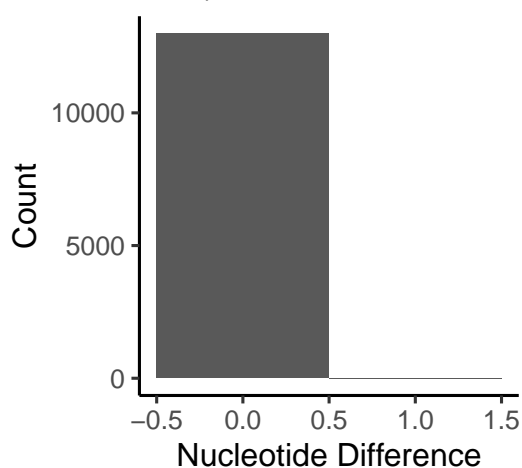
TRBV7-3*ap01

5448 sequences assigned
5428 (99.6%) exact matches, in which:
5422 unique CDR3
13 unique J



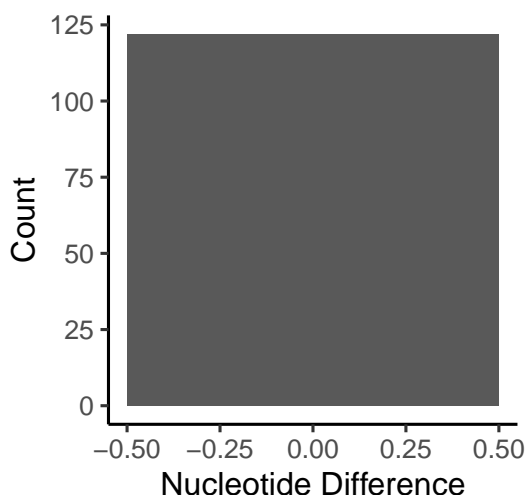
TRBV6-56*ap01

13006 sequences assigned
12992 (99.9%) exact matches, in which:
12985 unique CDR3
13 unique J



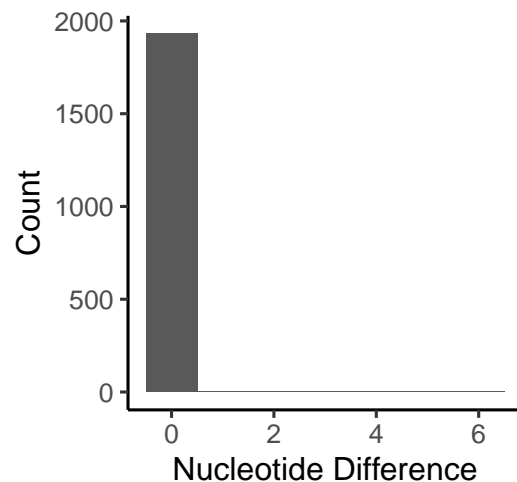
TRBV7-1*ap01_G291C_

122 sequences assigned
122 (100%) exact matches, in which:
122 unique CDR3
13 unique J



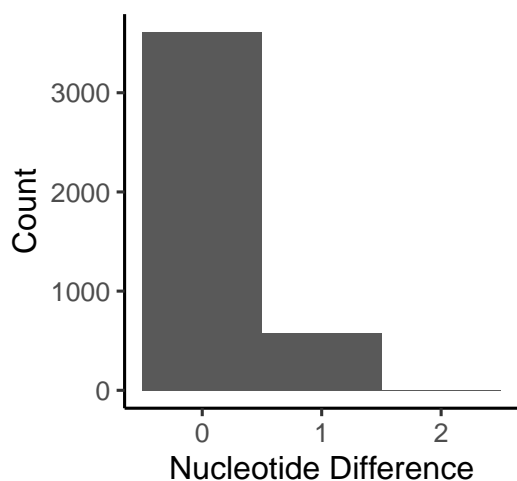
TRBV7-3*ap02

1939 sequences assigned
1931 (99.6%) exact matches, in which:
1930 unique CDR3
13 unique J



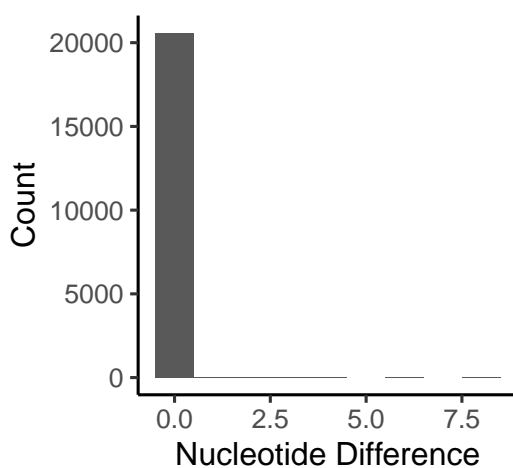
TRBV6-56*ap02

4189 sequences assigned
3612 (86.2%) exact matches, in which:
3610 unique CDR3
13 unique J



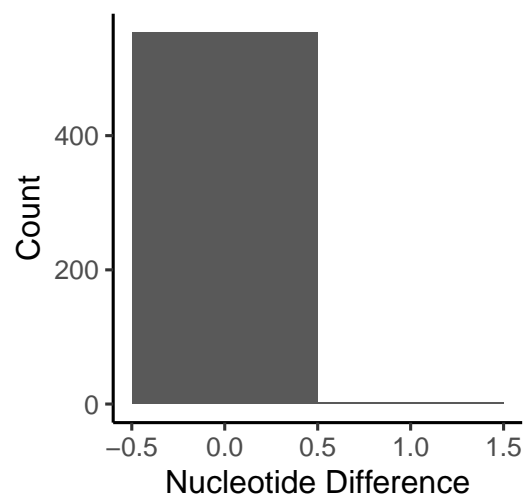
TRBV7-2*ap01

20622 sequences assigned
20592 (99.9%) exact matches, in which:
20589 unique CDR3
13 unique J



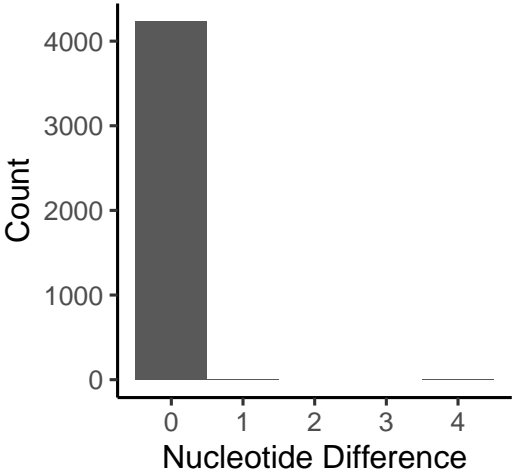
TRBV7-4*ap01

556 sequences assigned
554 (99.6%) exact matches, in which:
554 unique CDR3
13 unique J



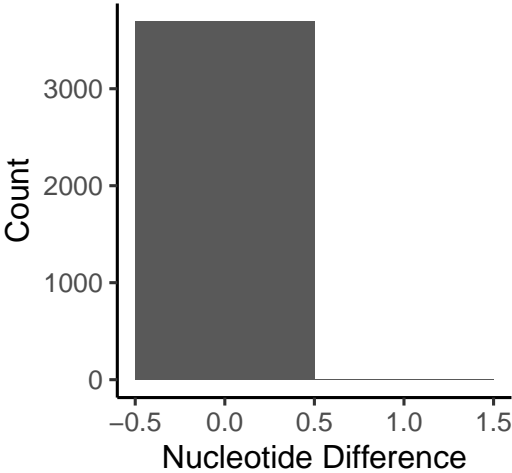
TRBV7-6*ap01

4239 sequences assigned
4233 (99.9%) exact matches, in which:
4232 unique CDR3
13 unique J



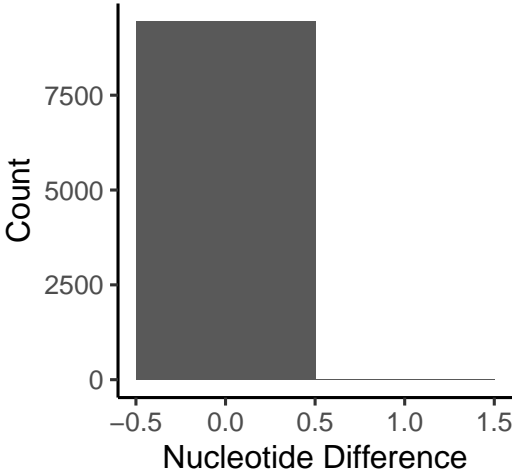
TRBV7-8*ap01

3697 sequences assigned
3694 (99.9%) exact matches, in which:
3694 unique CDR3
13 unique J



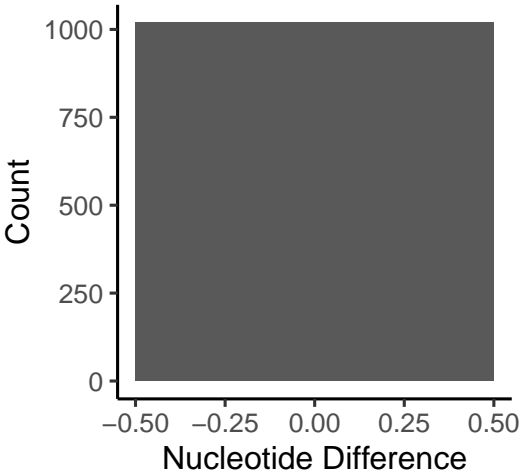
TRBV29-1*ap01

9464 sequences assigned
9445 (99.8%) exact matches, in which:
9418 unique CDR3
13 unique J



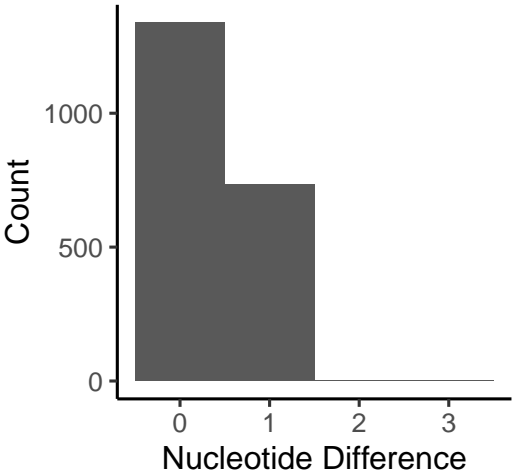
TRBV7-7*ap01

1019 sequences assigned
1019 (100%) exact matches, in which:
1019 unique CDR3
13 unique J



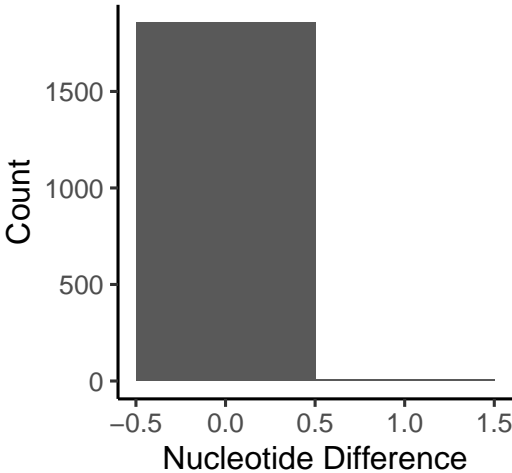
TRBV7-8*ap03

2075 sequences assigned
1338 (64.5%) exact matches, in which:
1338 unique CDR3
13 unique J



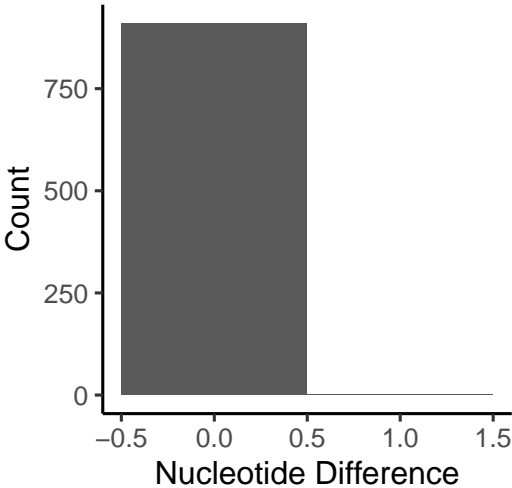
TRBV29-1*ap02

1864 sequences assigned
1856 (99.6%) exact matches, in which:
1852 unique CDR3
13 unique J



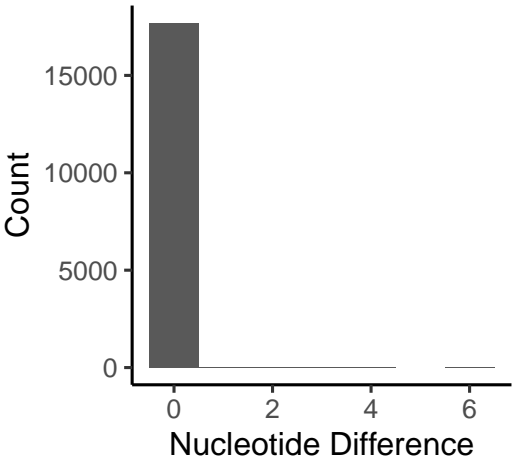
TRBV7-7*ap01_C315T

911 sequences assigned
910 (99.9%) exact matches, in which:
910 unique CDR3
13 unique J

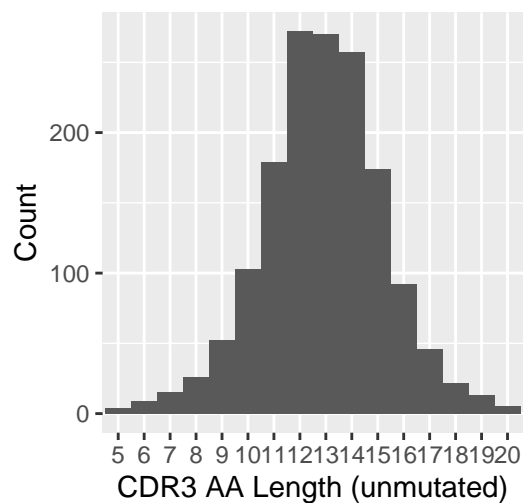


TRBV7-9*ap01

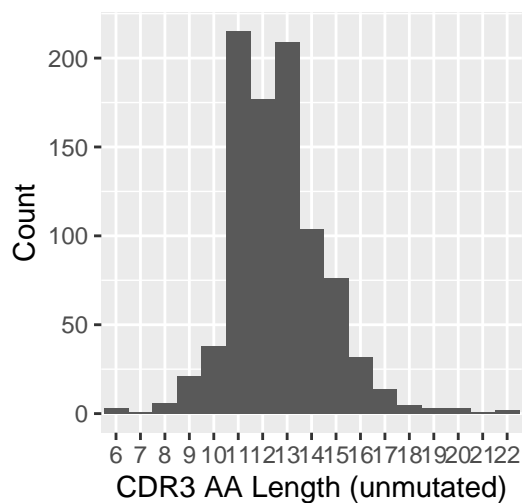
17720 sequences assigned
17701 (99.9%) exact matches, in which:
17700 unique CDR3
13 unique J



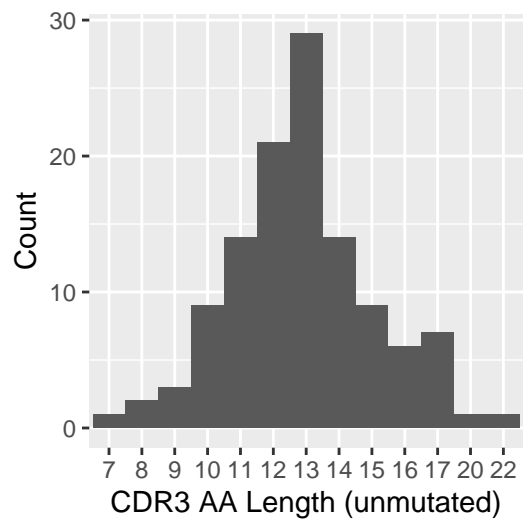
TRBV23-1*ap01_T304C



TRBV7-7*ap01_C315T



TRBV7-1*ap01_G291C_T296C



TRBV7-1*ap01_G291C_T296C_C314T

