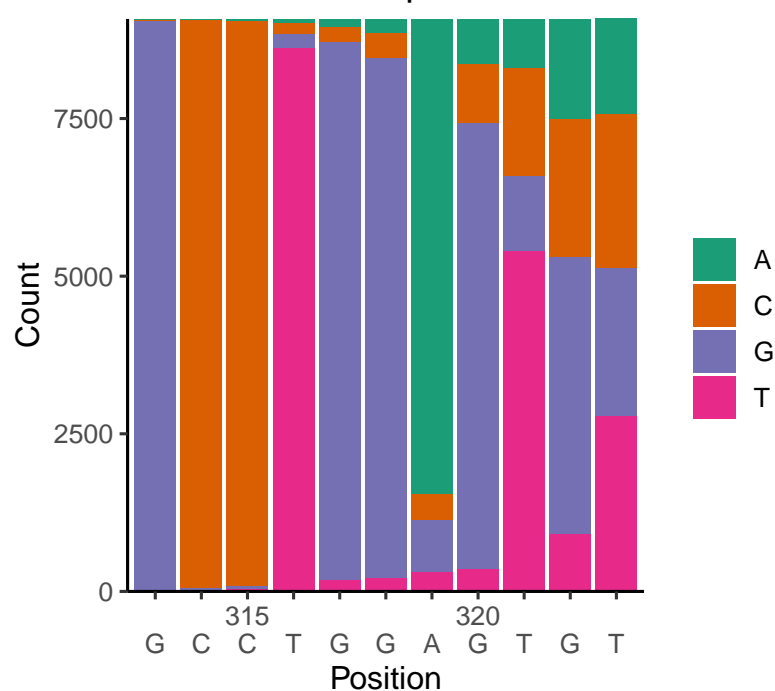
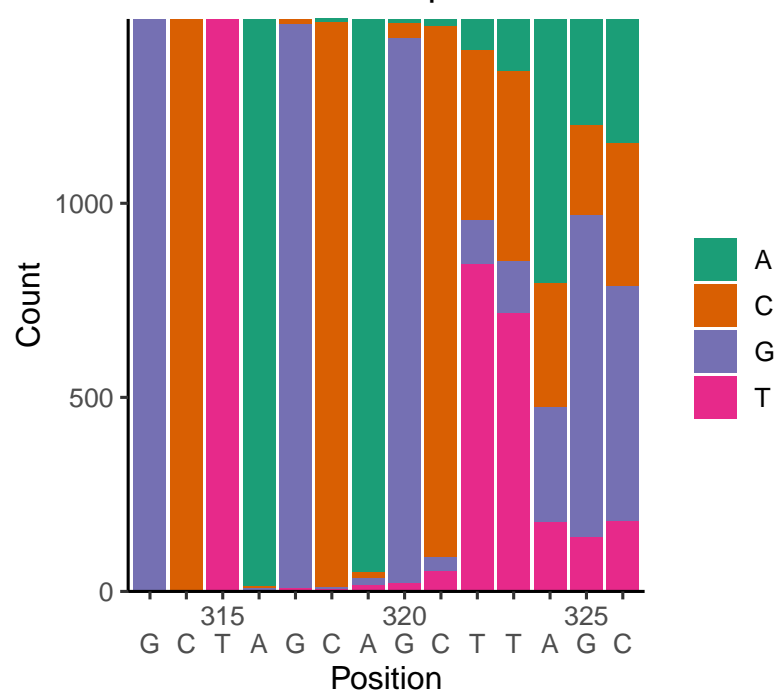


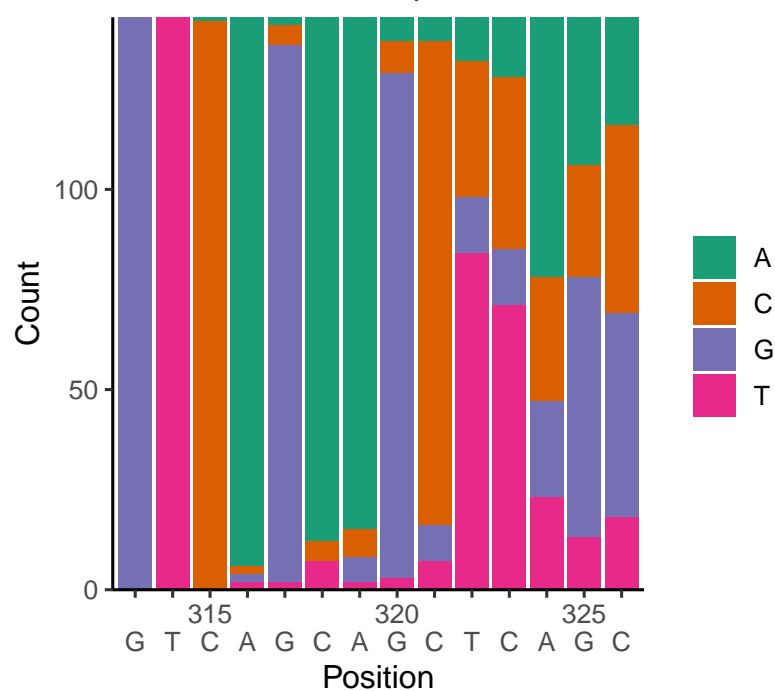
Gene TRBV30*ap01_G298A



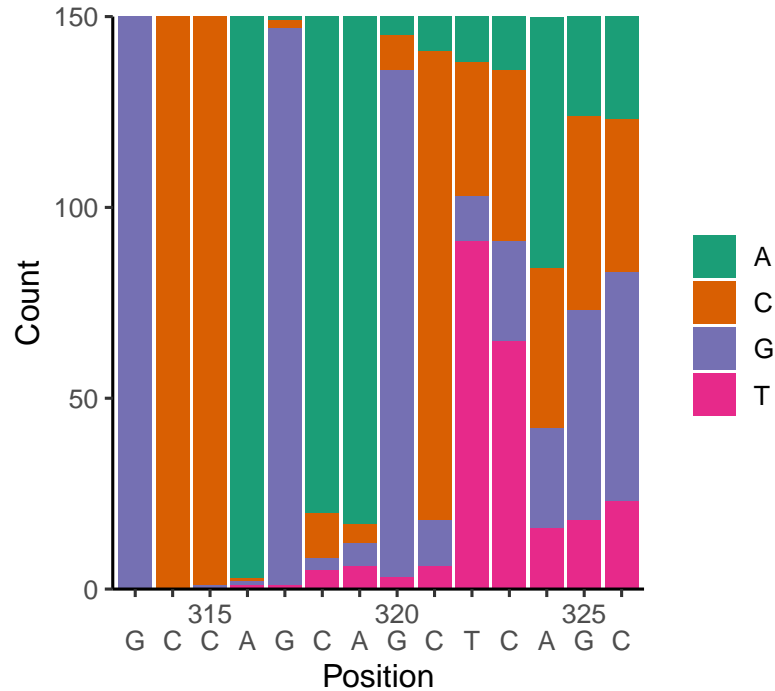
Gene TRBV7-7*ap01_C315T



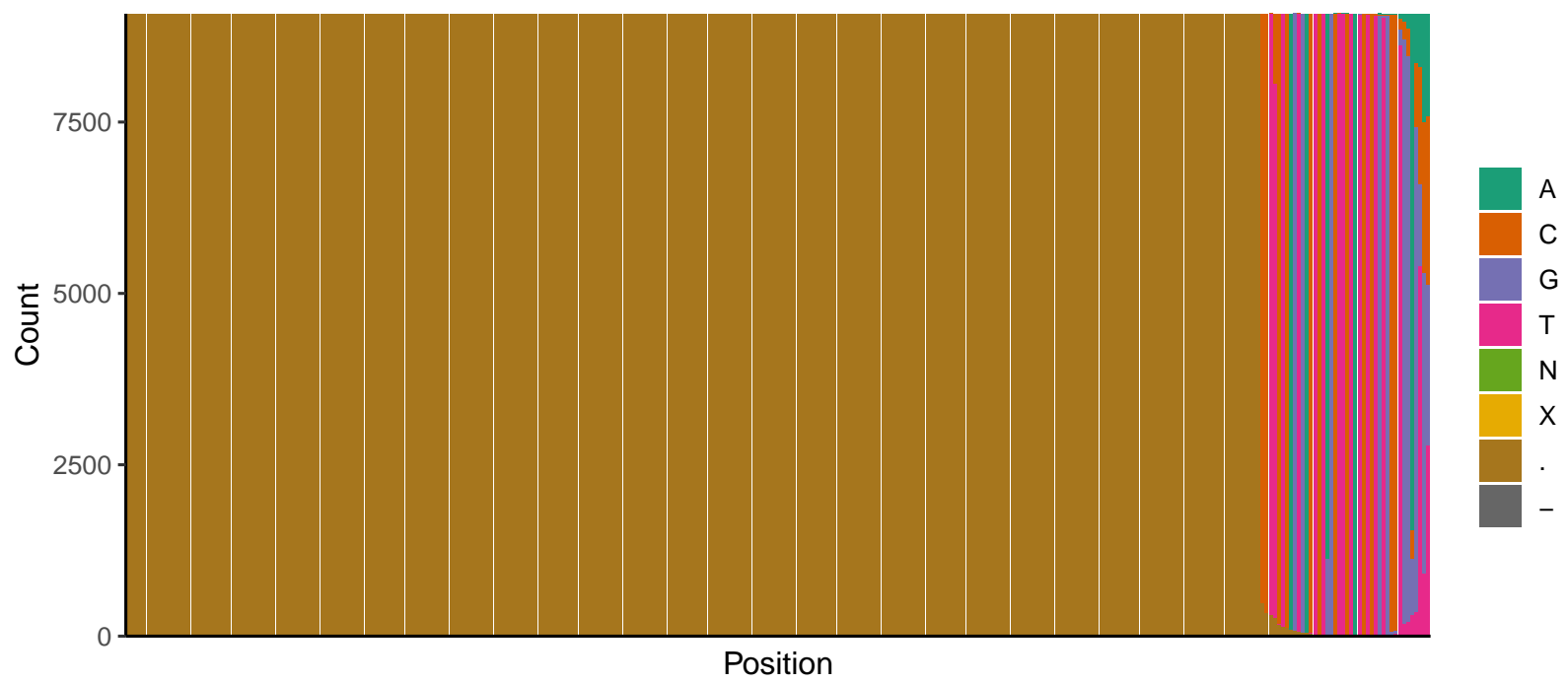
Gene TRBV7-1*ap01_G291C_T296C_C314T



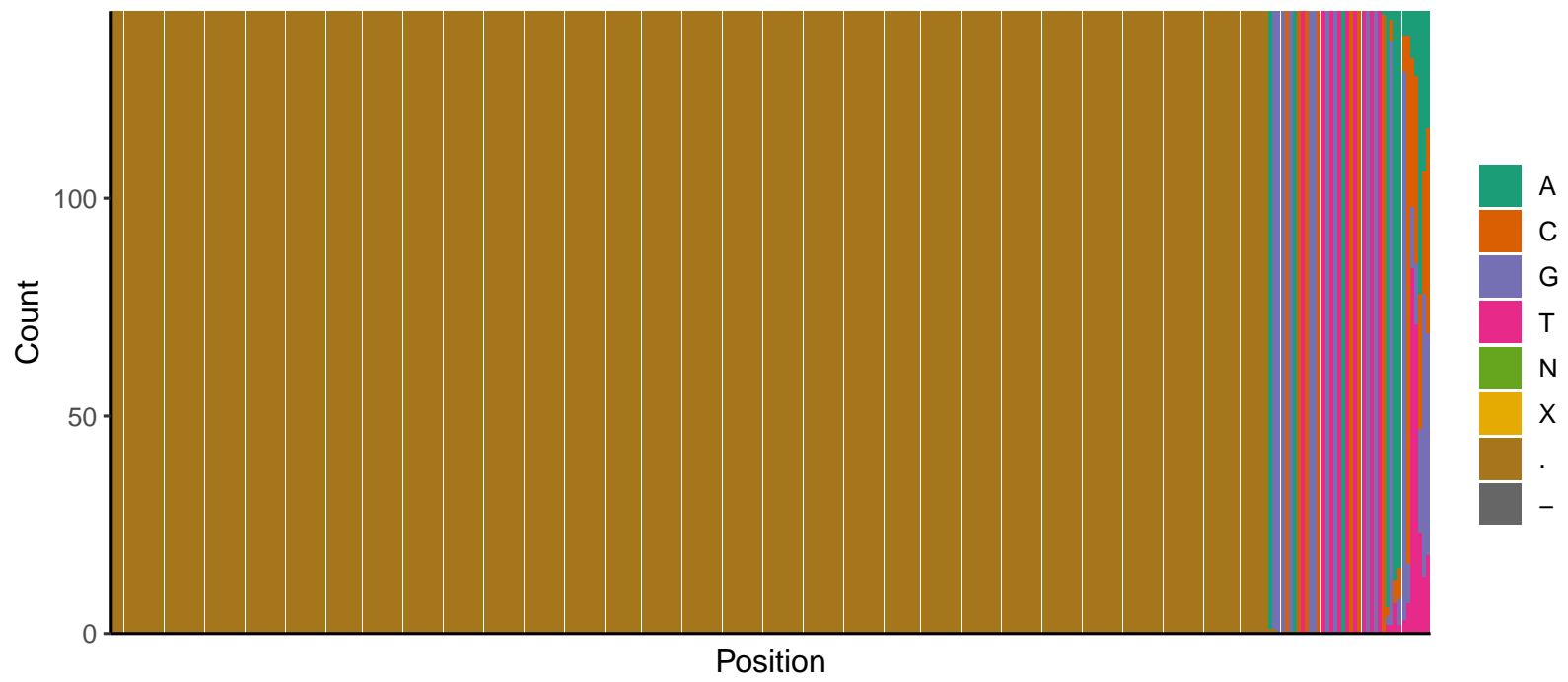
Gene TRBV7-1*ap01_G291C_T296C



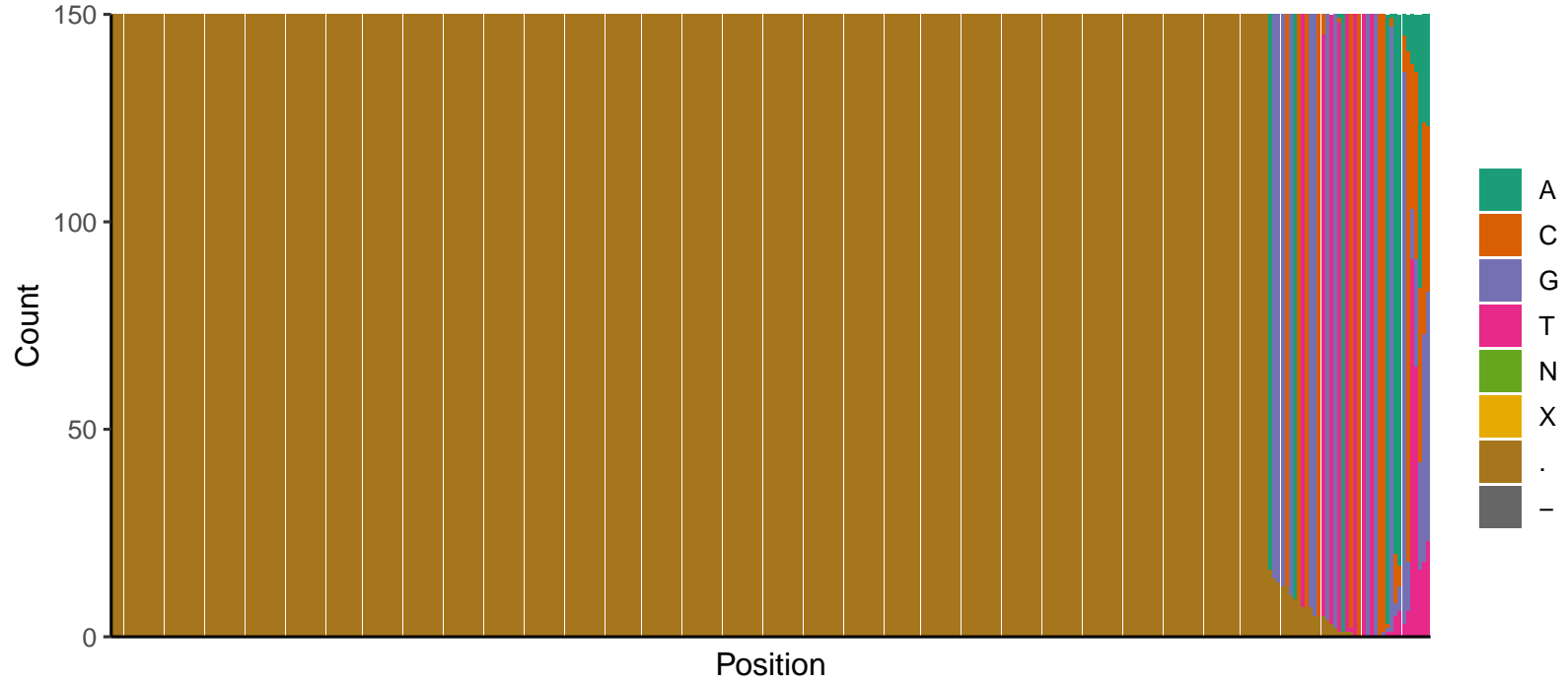
Gene TRBV30*ap01_G298A



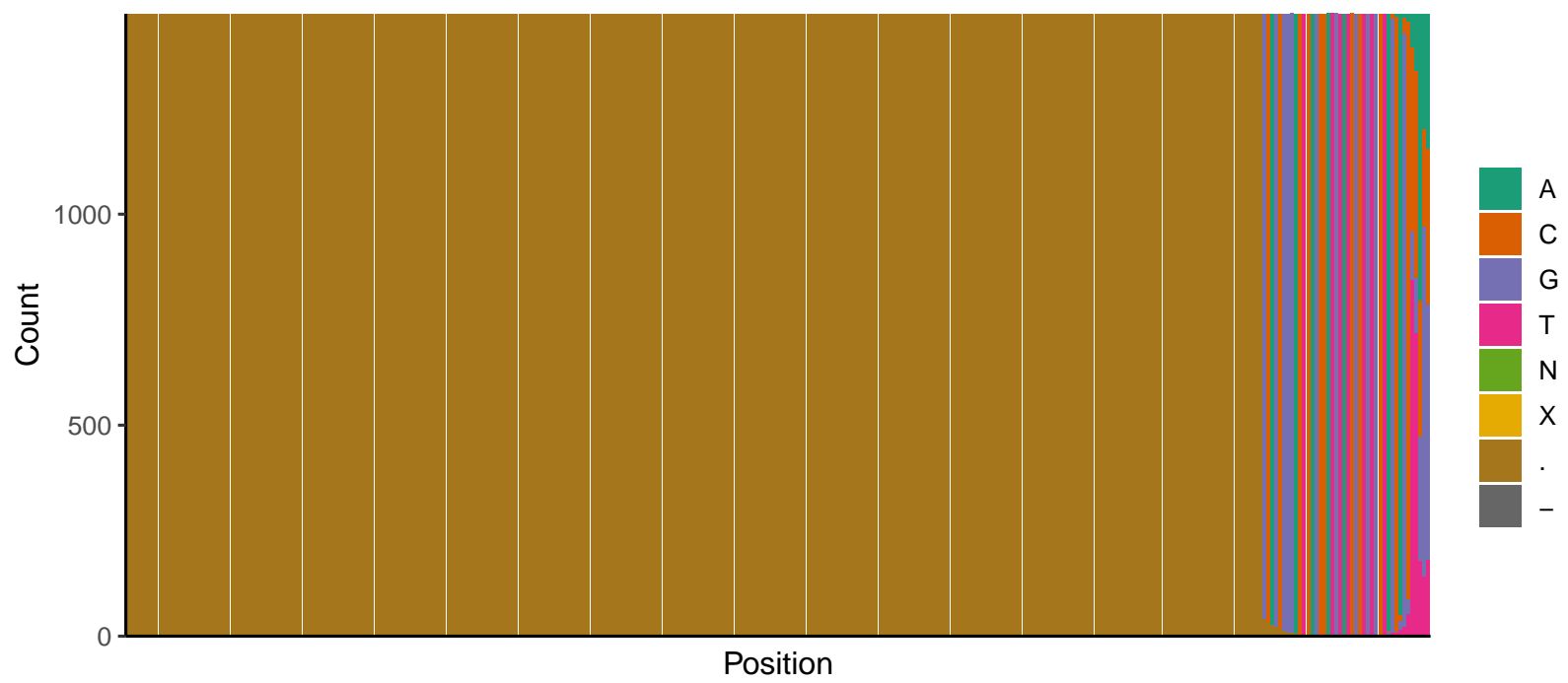
Gene TRBV7-1*ap01_G291C_T296C_C314T



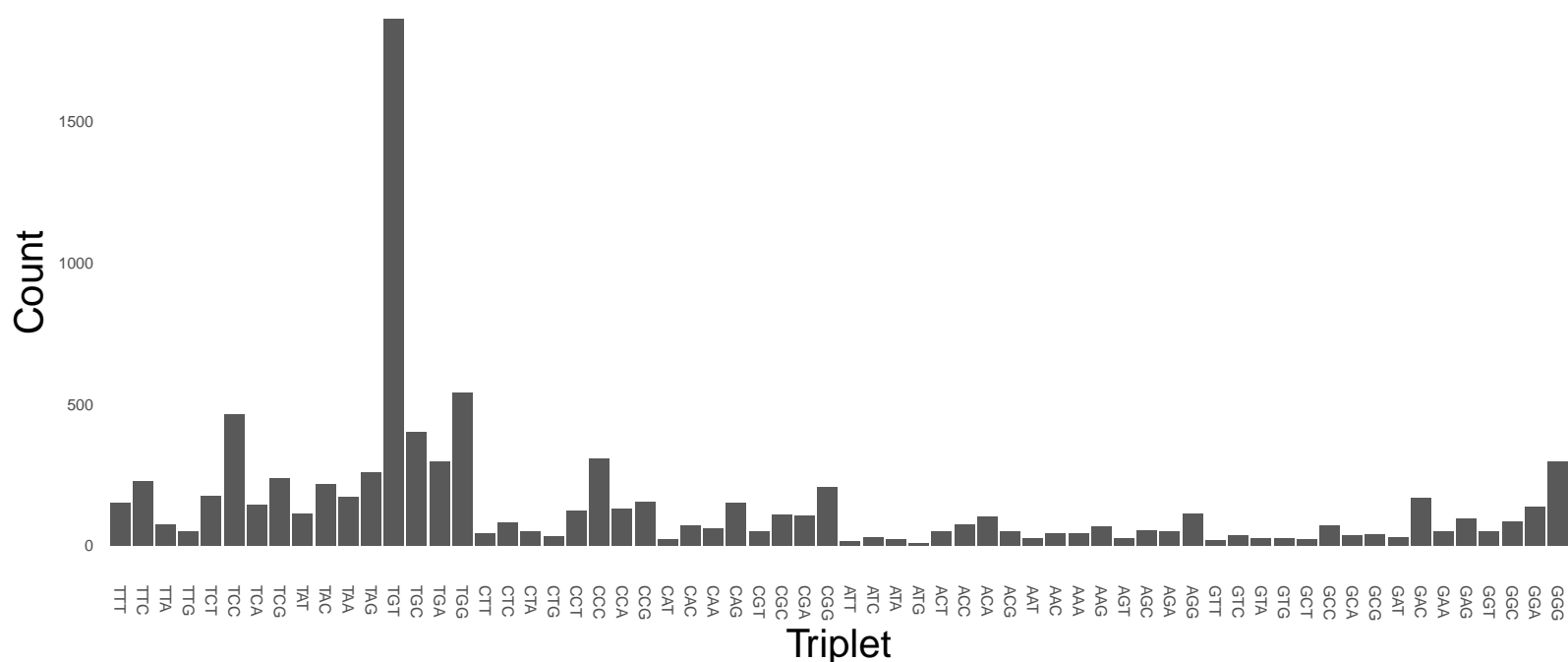
Gene TRBV7-1*ap01_G291C_T296C



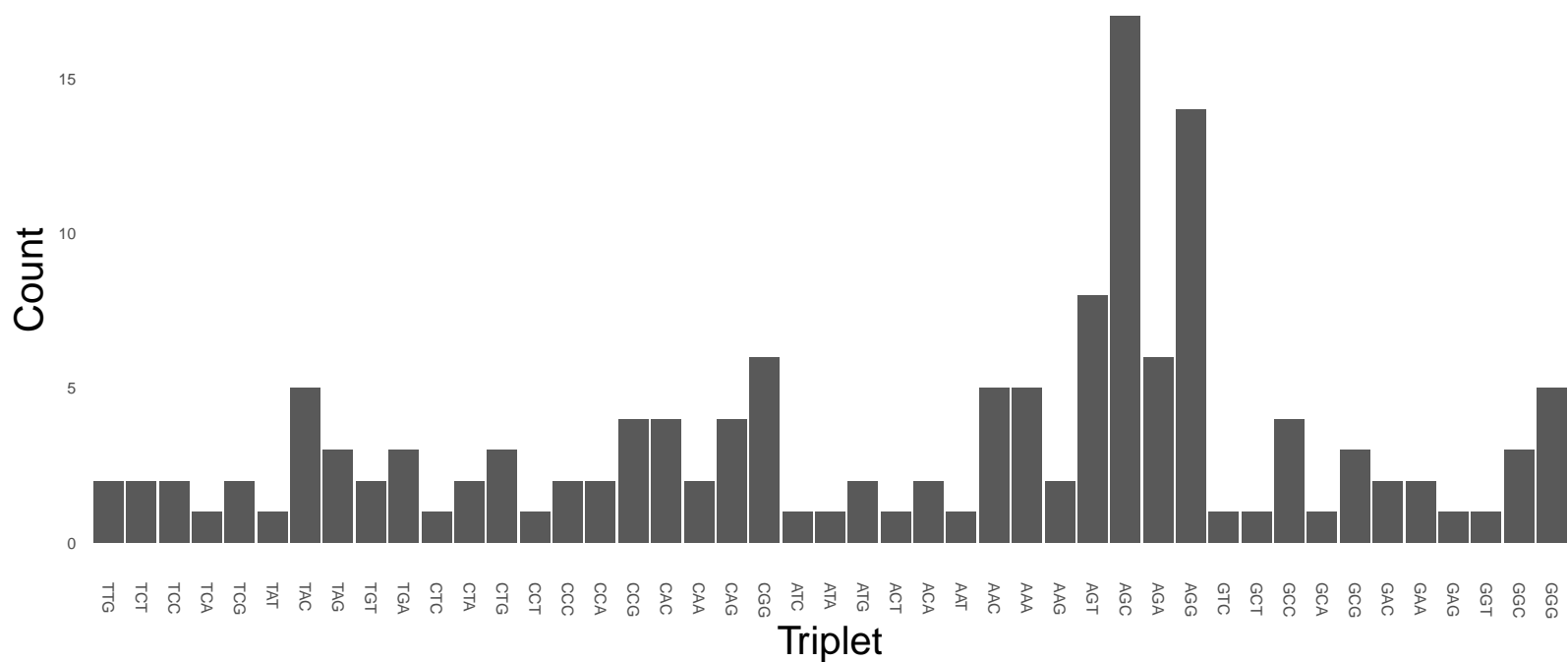
Gene TRBV7-7*ap01_C315T



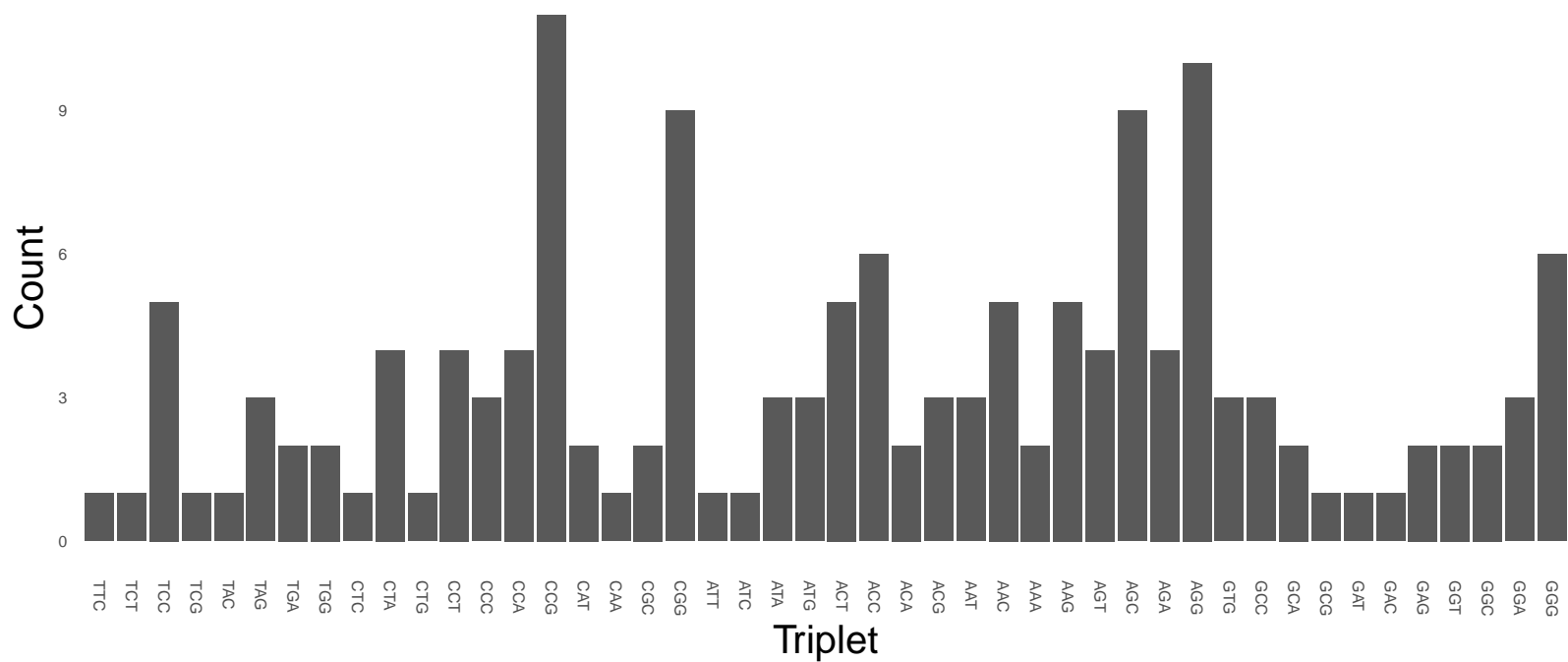
TRBV30*ap01_G298A– Final 3 nucleotides as a triplet



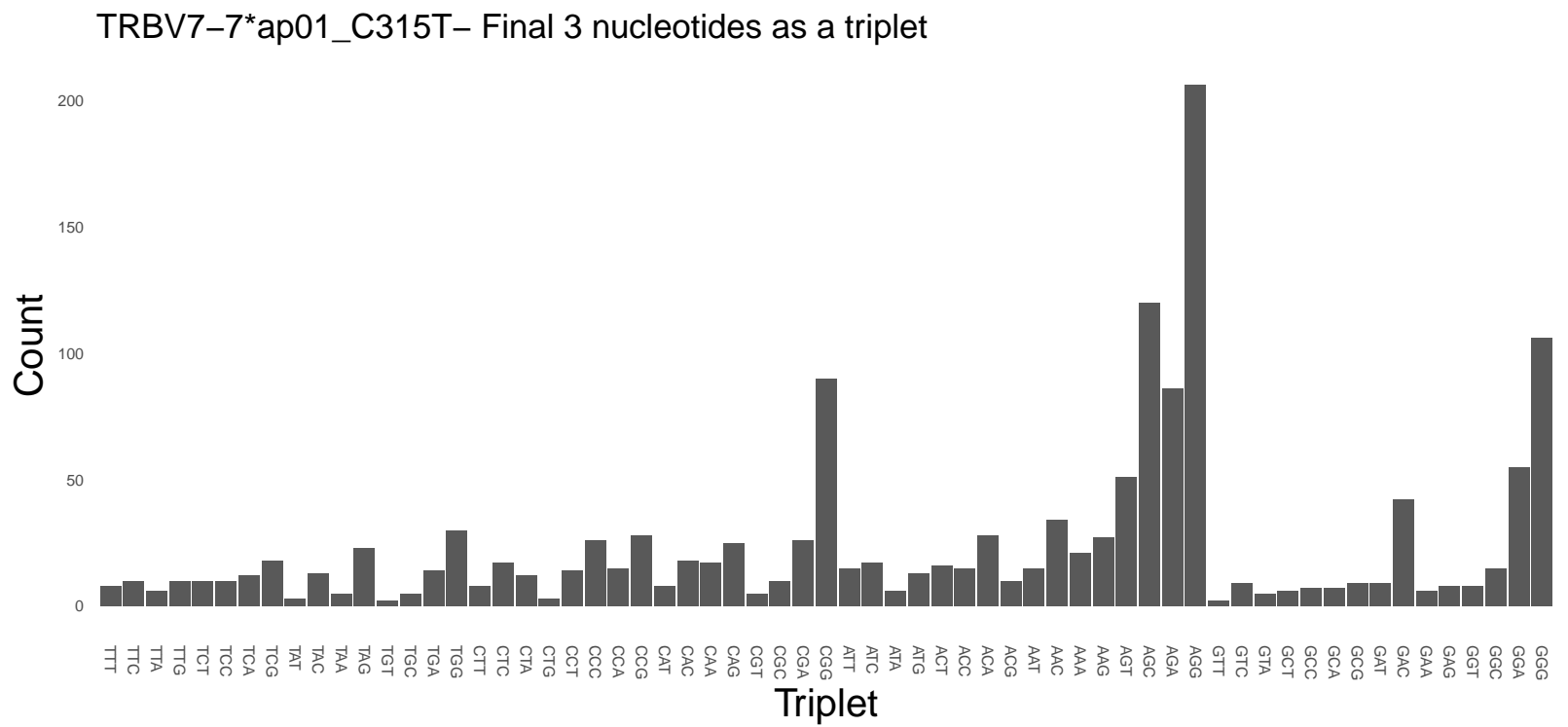
TRBV7–1*ap01_G291C_T296C_C314T– Final 3 nucleotides as a triplet



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

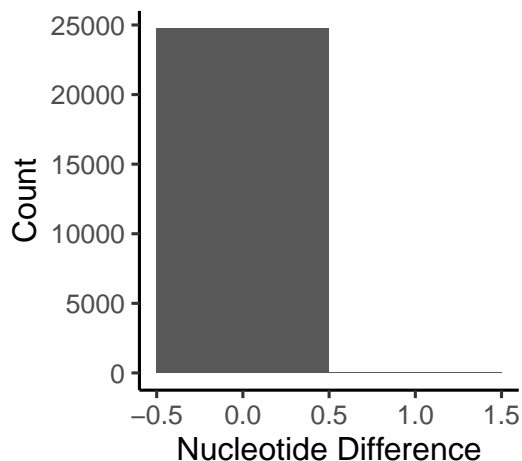


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



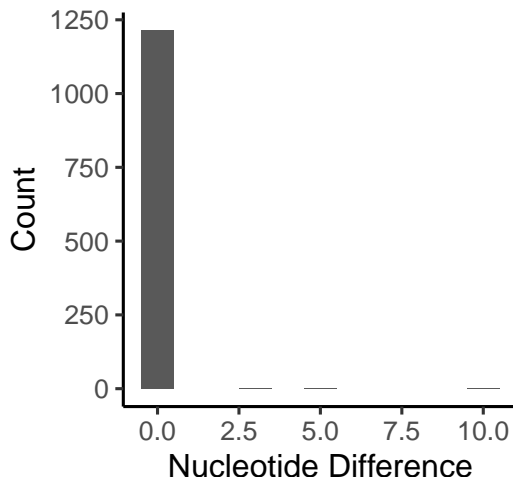
TRBV20-1*ap01

24807 sequences assigned
24773 (99.9%) exact matches, in which:
24758 unique CDR3
12 unique J



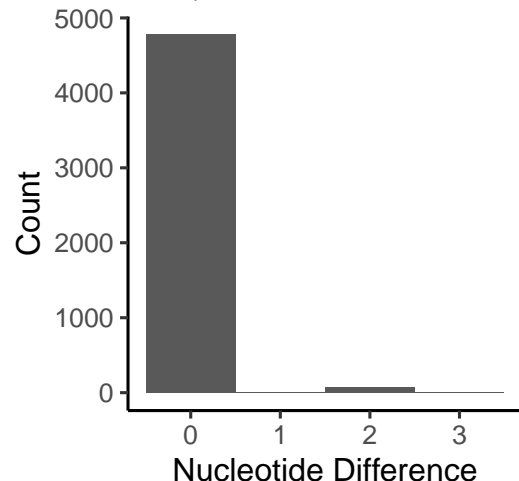
TRBV10-2*ap01

1217 sequences assigned
1214 (99.8%) exact matches, in which:
1214 unique CDR3
12 unique J



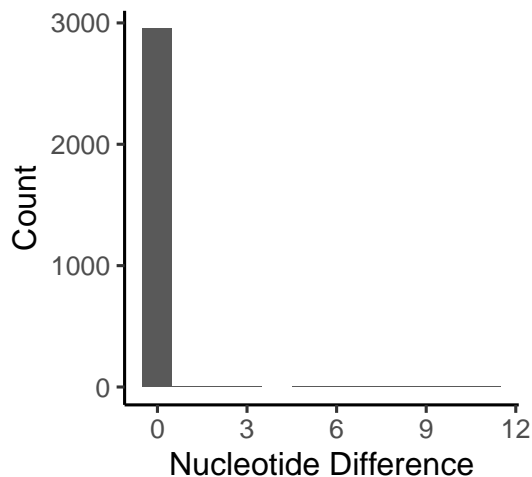
TRBV13*ap01

4860 sequences assigned
4780 (98.4%) exact matches, in which:
4777 unique CDR3
12 unique J



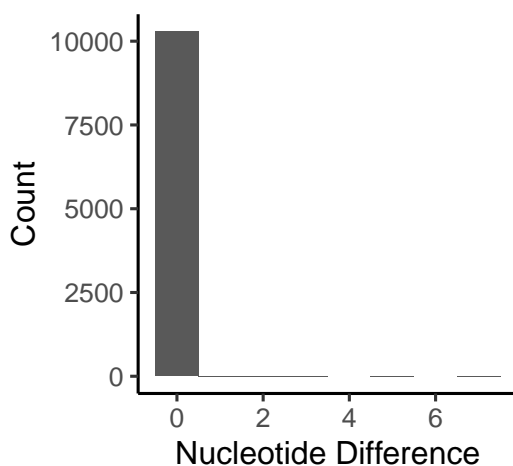
TRBV10-1*ap01

2978 sequences assigned
2952 (99.1%) exact matches, in which:
2952 unique CDR3
13 unique J



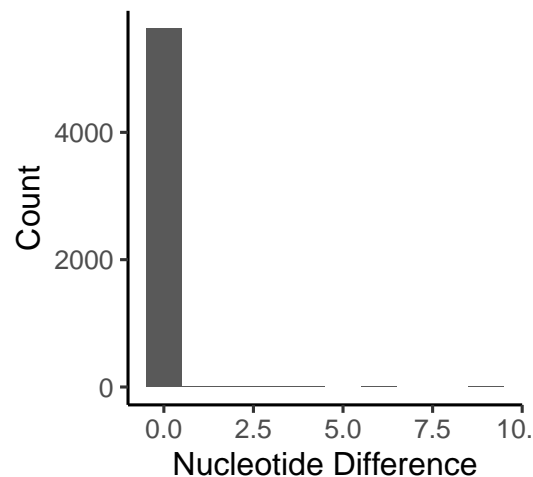
TRBV10-3*ap01

10311 sequences assigned
10290 (99.8%) exact matches, in which:
10286 unique CDR3
12 unique J



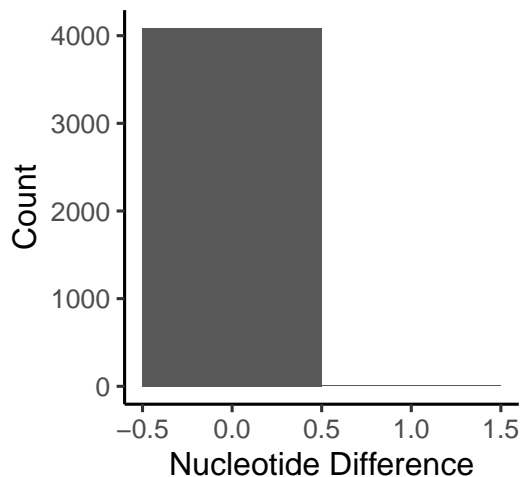
TRBV14*ap01

5643 sequences assigned
5628 (99.7%) exact matches, in which:
5627 unique CDR3
12 unique J



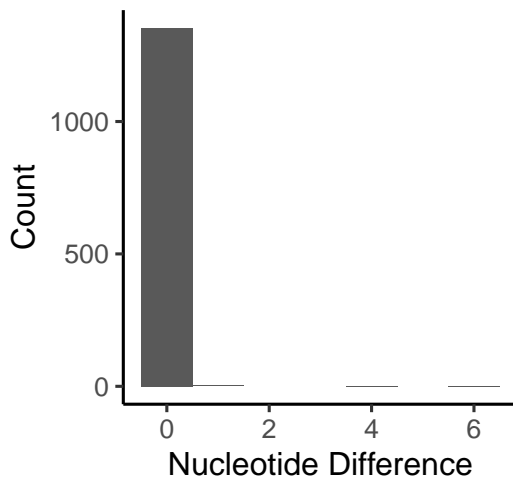
TRBV20-1*ap02

4097 sequences assigned
4087 (99.8%) exact matches, in which:
4086 unique CDR3
12 unique J



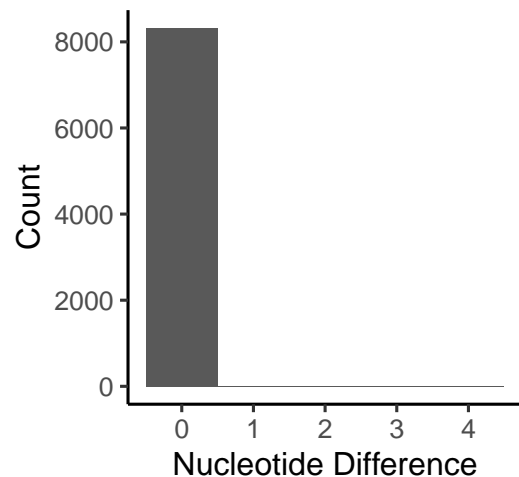
TRBV1*ap01

1359 sequences assigned
1353 (99.6%) exact matches, in which:
1352 unique CDR3
12 unique J



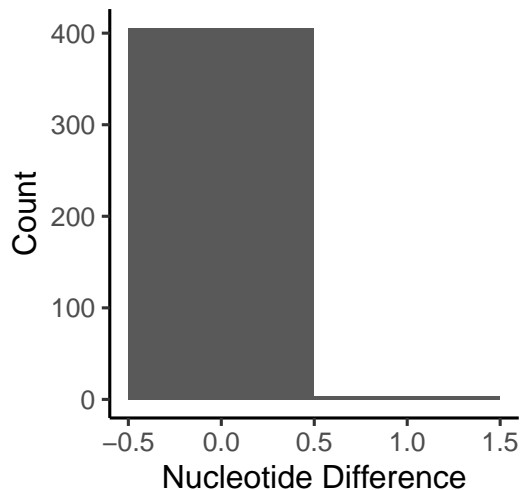
TRBV15*ap02

8336 sequences assigned
8321 (99.8%) exact matches, in which:
8318 unique CDR3
12 unique J



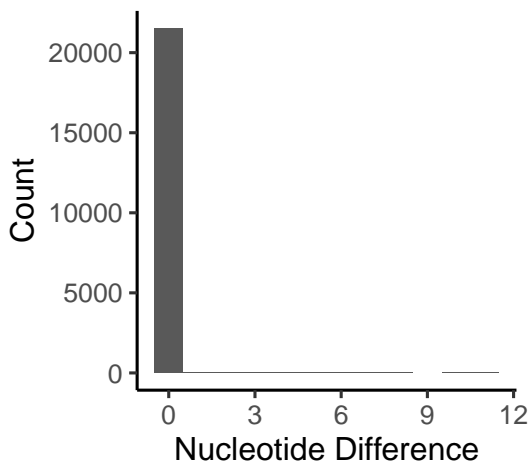
TRBV16*ap01

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



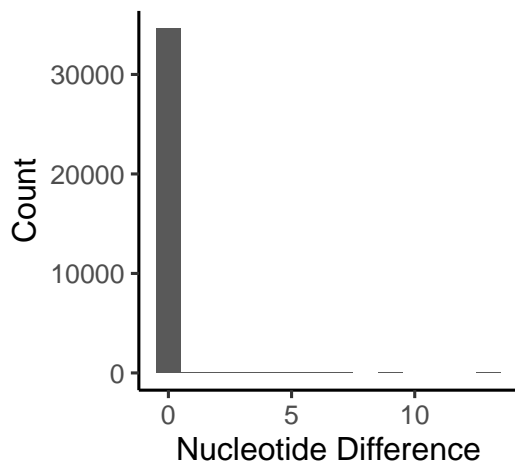
TRBV19*ap01

21590 sequences assigned
21531 (99.7%) exact matches, in which:
21531 unique CDR3
12 unique J



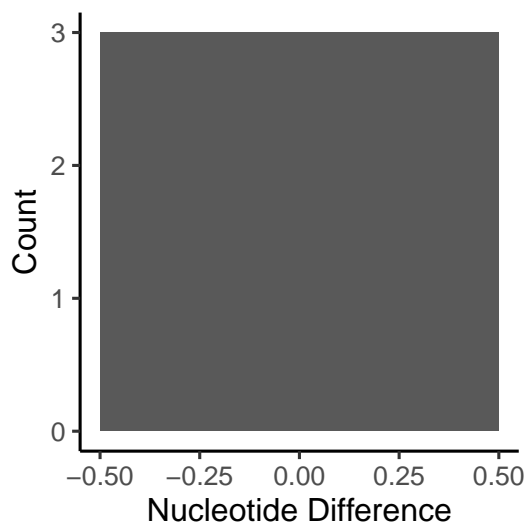
TRBV27*ap01

34776 sequences assigned
34655 (99.7%) exact matches, in which:
34620 unique CDR3
13 unique J



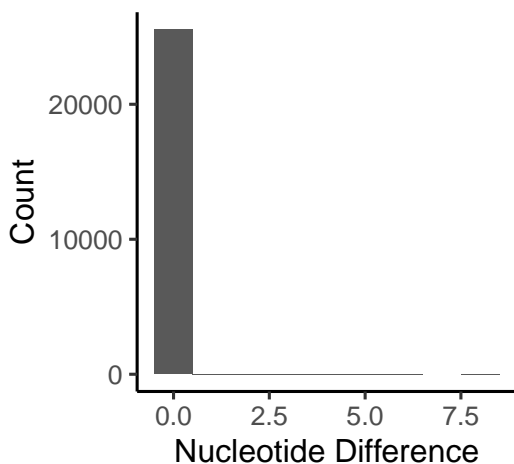
TRBV17*ap01

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
3 unique J



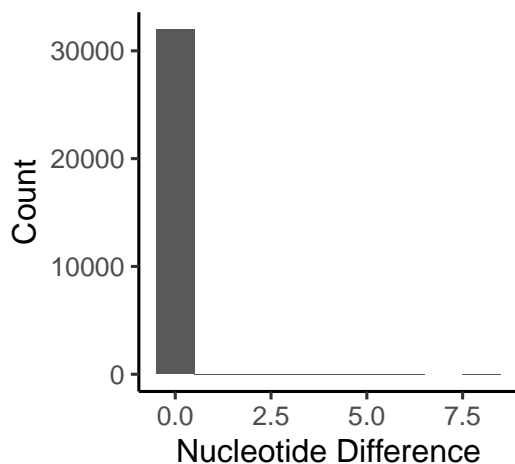
TRBV2*ap01

25606 sequences assigned
25541 (99.7%) exact matches, in which:
25520 unique CDR3
14 unique J



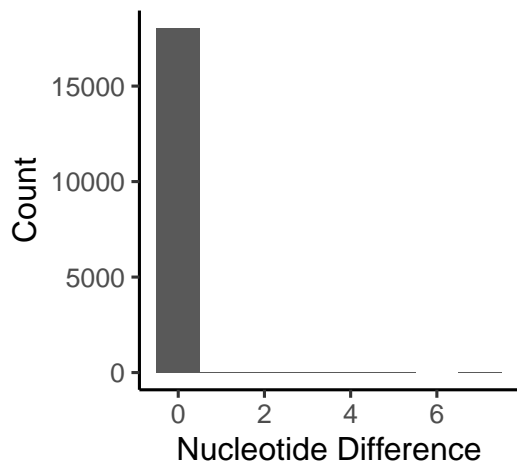
TRBV28*ap01

32037 sequences assigned
31978 (99.8%) exact matches, in which:
31974 unique CDR3
14 unique J



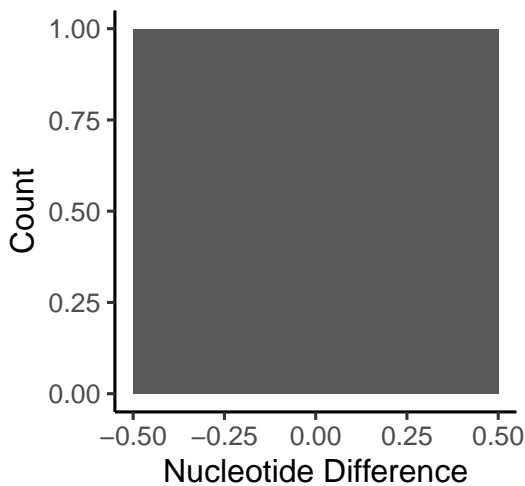
TRBV18*ap01

18073 sequences assigned
18053 (99.9%) exact matches, in which:
18053 unique CDR3
13 unique J



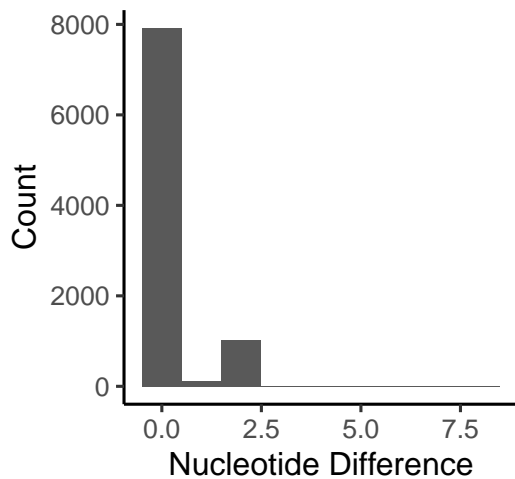
TRBV26*ap01

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



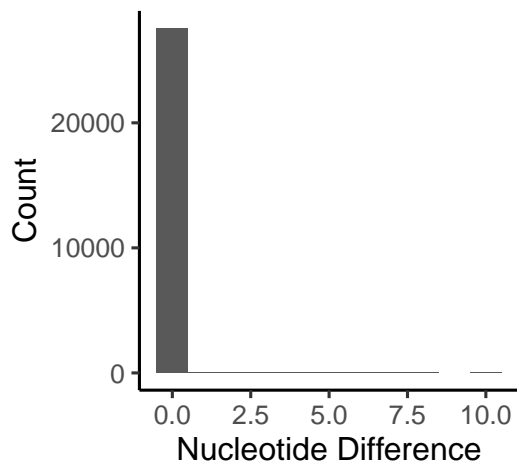
TRBV30*ap01_G298A

9080 sequences assigned
7919 (87.2%) exact matches, in which:
7911 unique CDR3
13 unique J



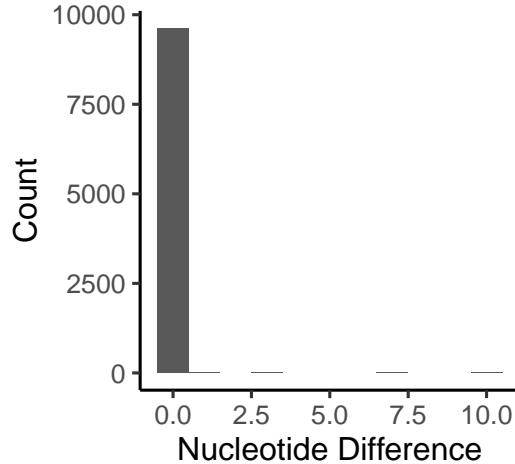
TRBV9*ap01

27638 sequences assigned
27570 (99.8%) exact matches, in which:
27562 unique CDR3
12 unique J



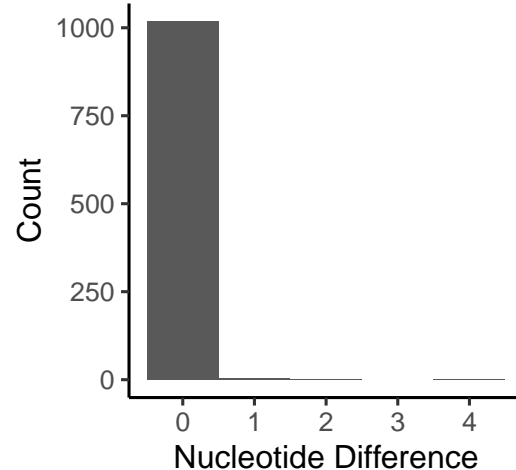
TRBV11-2*ap01

9646 sequences assigned
9625 (99.8%) exact matches, in which:
9625 unique CDR3
13 unique J



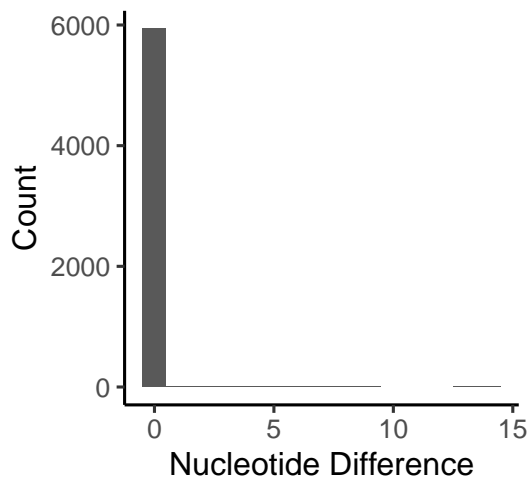
TRBV12-2*ap01

1025 sequences assigned
1018 (99.3%) exact matches, in which:
1018 unique CDR3
12 unique J



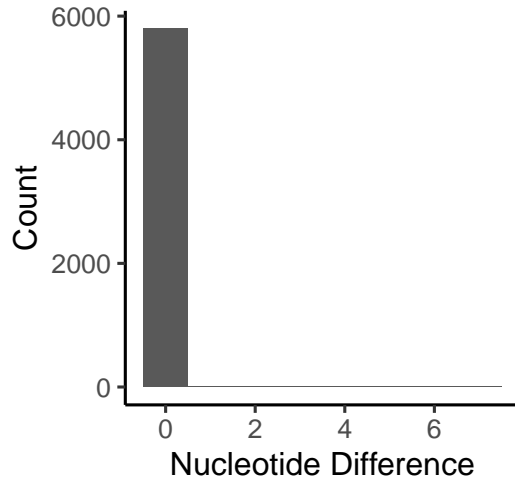
TRBV21-1*ap01

6012 sequences assigned
5938 (98.8%) exact matches, in which:
5938 unique CDR3
12 unique J



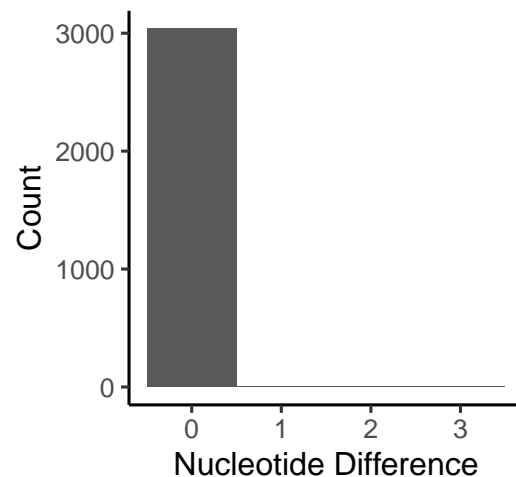
TRBV11-3*ap01

5814 sequences assigned
5796 (99.7%) exact matches, in which:
5796 unique CDR3
12 unique J



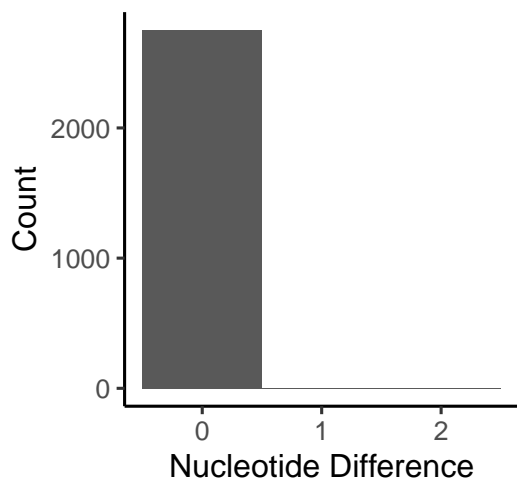
TRBV12-5*ap01

3048 sequences assigned
3038 (99.7%) exact matches, in which:
3038 unique CDR3
12 unique J



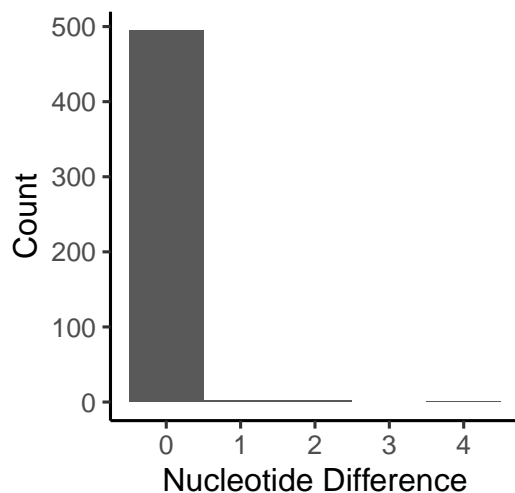
TRBV11-1*ap01

2757 sequences assigned
2752 (99.8%) exact matches, in which:
2752 unique CDR3
12 unique J



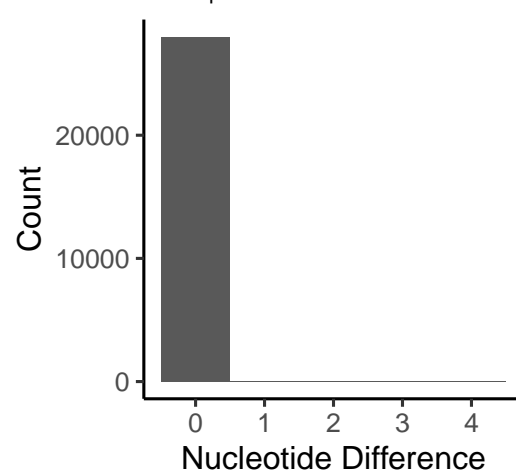
TRBV12-1*ap01

500 sequences assigned
495 (99%) exact matches, in which:
495 unique CDR3
12 unique J



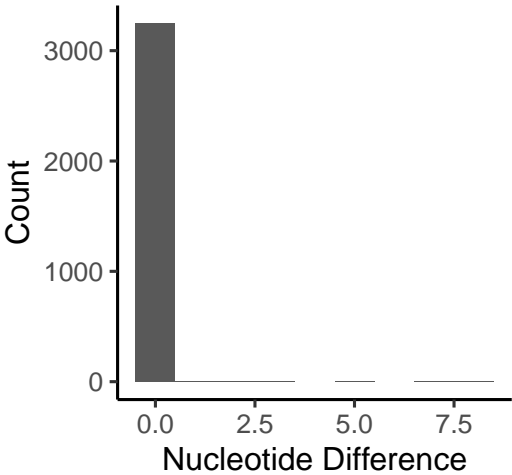
TRBV12-34*ap01

28040 sequences assigned
27990 (99.8%) exact matches, in which:
27987 unique CDR3
14 unique J



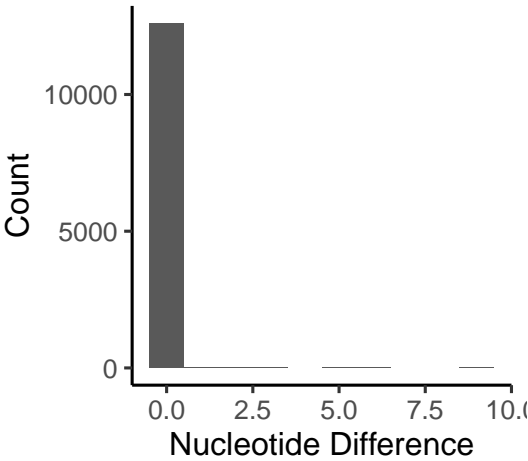
TRBV23-1*ap01

3270 sequences assigned
3247 (99.3%) exact matches, in which:
3247 unique CDR3
12 unique J



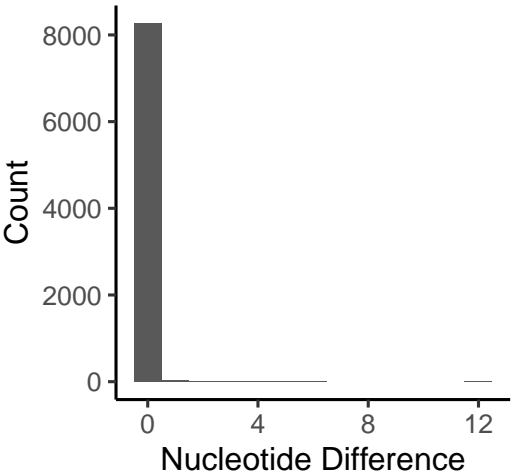
TRBV4-1*ap01

12627 sequences assigned
12609 (99.9%) exact matches, in which:
12606 unique CDR3
12 unique J



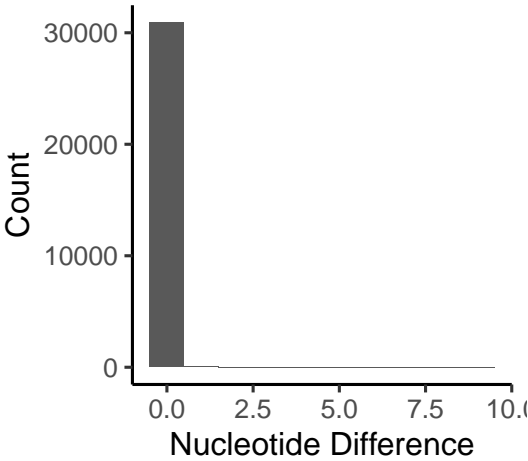
TRBV25-1*ap01

8313 sequences assigned
8266 (99.4%) exact matches, in which:
8254 unique CDR3
13 unique J



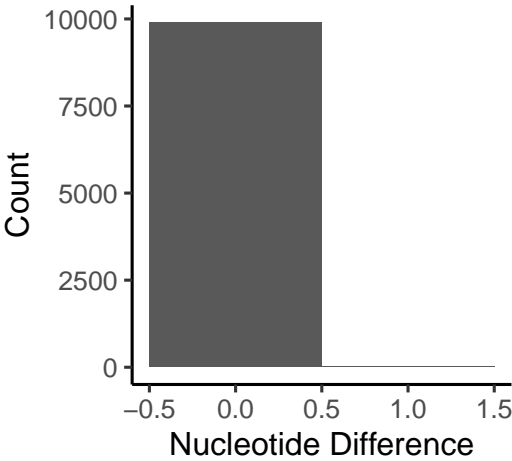
TRBV3-12*ap01

31016 sequences assigned
30924 (99.7%) exact matches, in which:
30887 unique CDR3
13 unique J



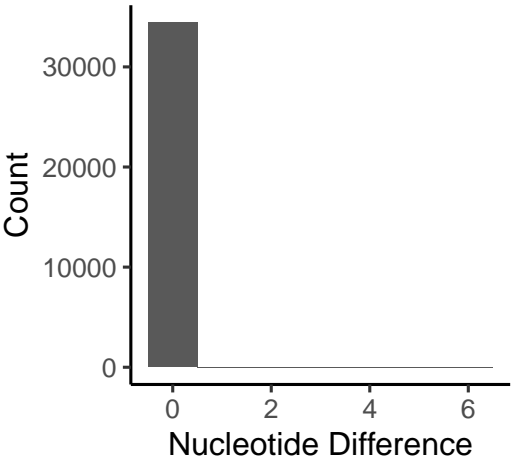
TRBV4-2*ap01

9924 sequences assigned
9898 (99.7%) exact matches, in which:
9893 unique CDR3
13 unique J



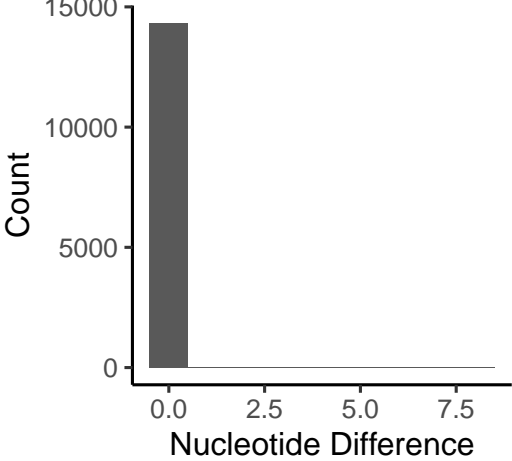
TRBV5-1*ap01

34493 sequences assigned
34437 (99.8%) exact matches, in which:
34416 unique CDR3
12 unique J



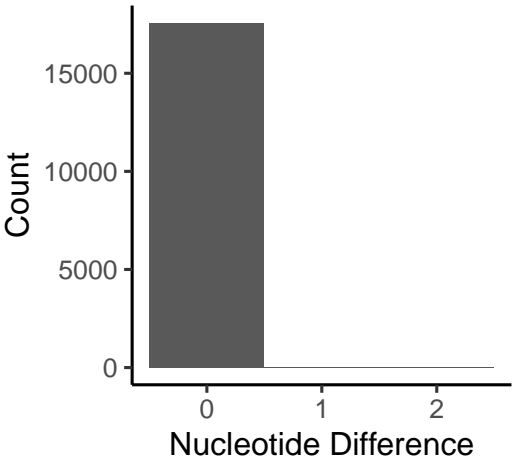
TRBV24-1*ap01

14389 sequences assigned
14338 (99.6%) exact matches, in which:
14311 unique CDR3
13 unique J



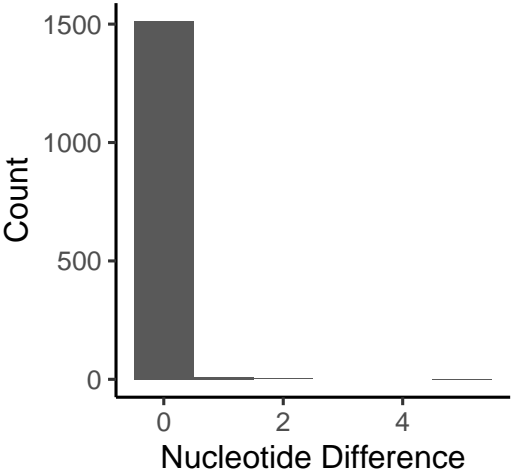
TRBV4-3*ap01

17591 sequences assigned
17574 (99.9%) exact matches, in which:
17566 unique CDR3
12 unique J



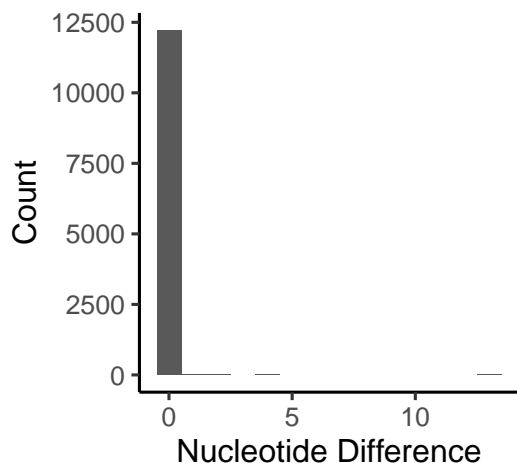
TRBV5-3*ap01

1528 sequences assigned
1513 (99%) exact matches, in which:
1512 unique CDR3
12 unique J



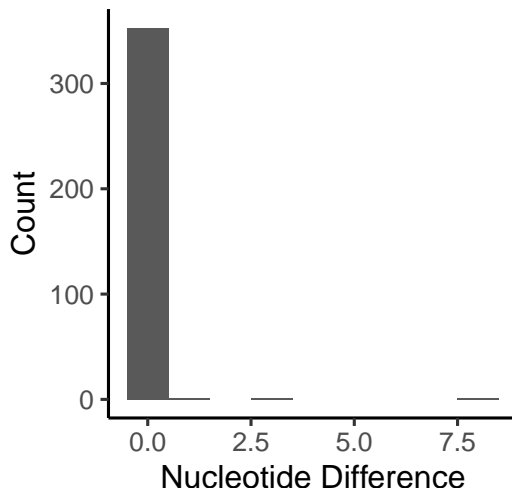
TRBV5-4*ap01

12243 sequences assigned
12222 (99.8%) exact matches, in which:
12220 unique CDR3
13 unique J



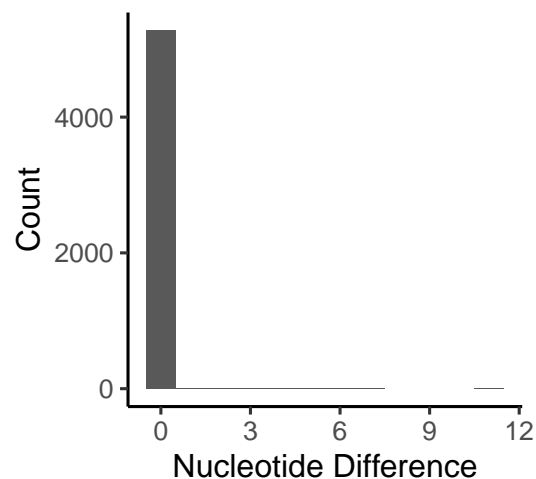
TRBV5-7*ap01

356 sequences assigned
353 (99.2%) exact matches, in which:
353 unique CDR3
12 unique J



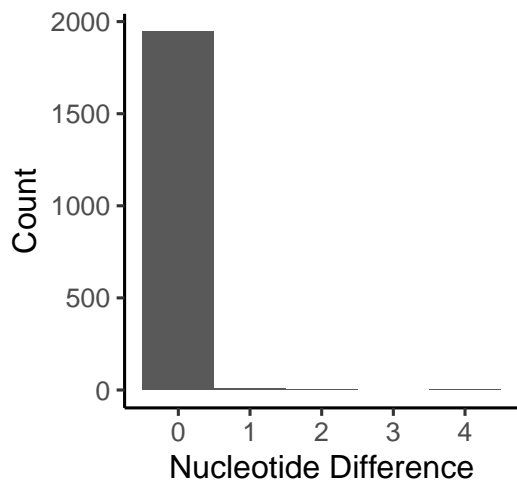
TRBV6-4*ap01

5312 sequences assigned
5277 (99.3%) exact matches, in which:
5277 unique CDR3
12 unique J



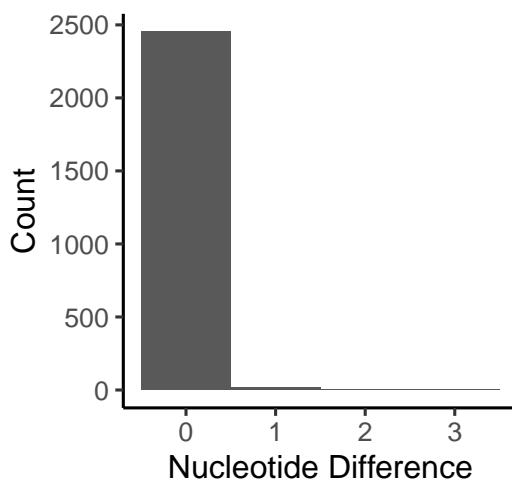
TRBV5-5*ap01

1957 sequences assigned
1945 (99.4%) exact matches, in which:
1943 unique CDR3
12 unique J



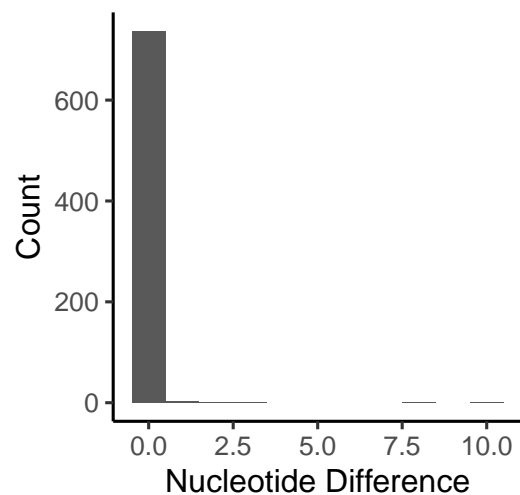
TRBV5-8*ap01

2476 sequences assigned
2453 (99.1%) exact matches, in which:
2453 unique CDR3
13 unique J



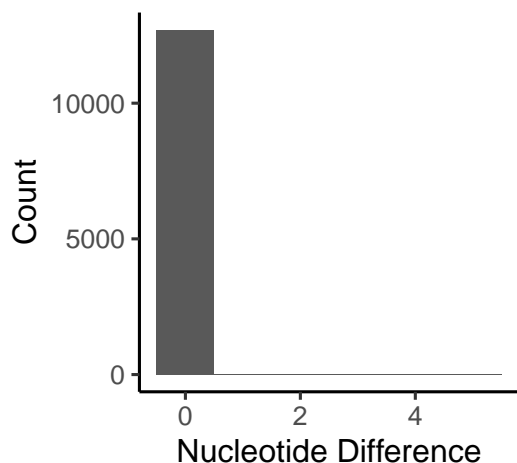
TRBV6-7*ap01

743 sequences assigned
737 (99.2%) exact matches, in which:
737 unique CDR3
12 unique J



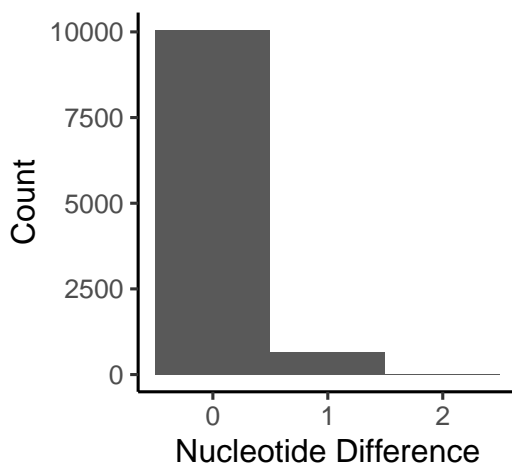
TRBV5-6*ap01

12739 sequences assigned
12704 (99.7%) exact matches, in which:
12666 unique CDR3
13 unique J



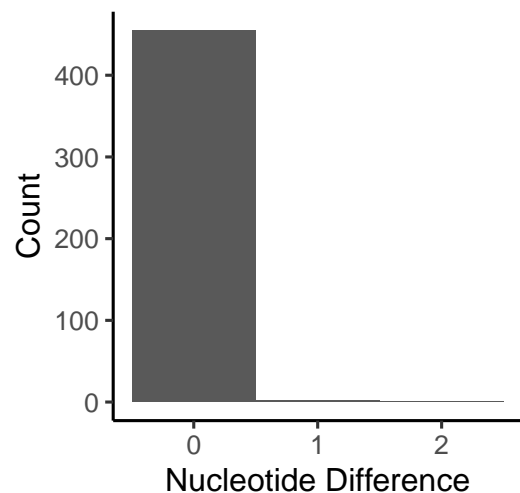
TRBV6-1*ap01

10728 sequences assigned
10061 (93.8%) exact matches, in which:
10057 unique CDR3
12 unique J



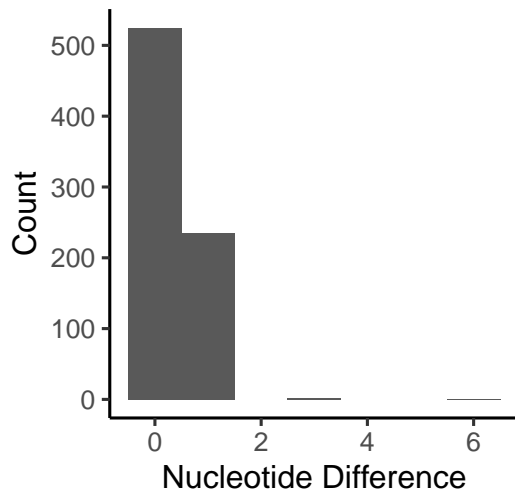
TRBV6-8*ap01

458 sequences assigned
455 (99.3%) exact matches, in which:
455 unique CDR3
12 unique J



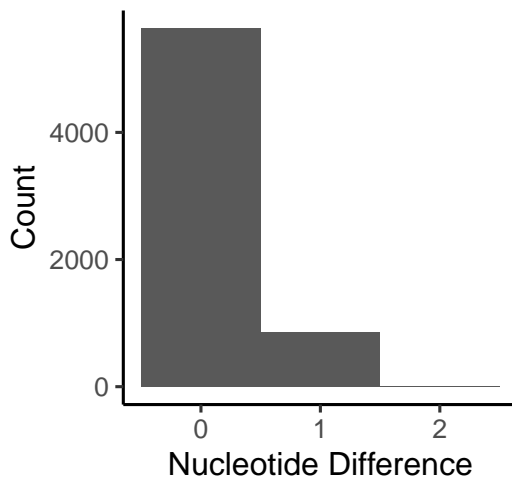
TRBV6–9*ap01

763 sequences assigned
525 (68.8%) exact matches, in which:
524 unique CDR3
12 unique J



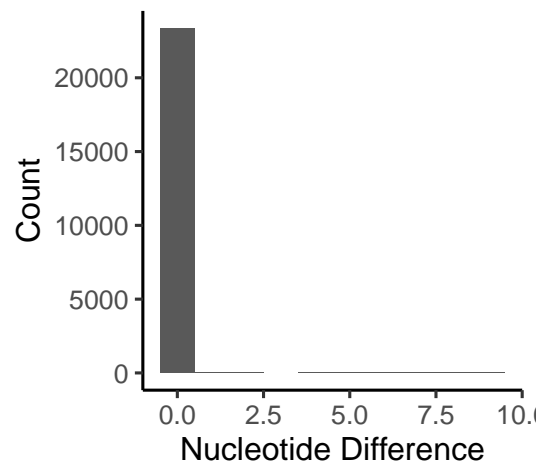
TRBV6–56*ap02

6501 sequences assigned
5636 (86.7%) exact matches, in which:
5635 unique CDR3
12 unique J



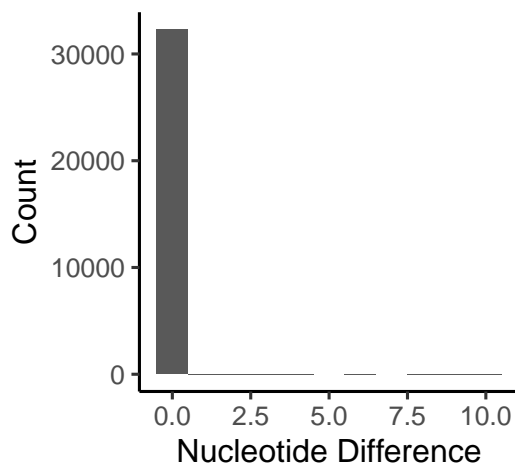
TRBV7–2*ap01

23411 sequences assigned
23363 (99.8%) exact matches, in which:
23362 unique CDR3
13 unique J



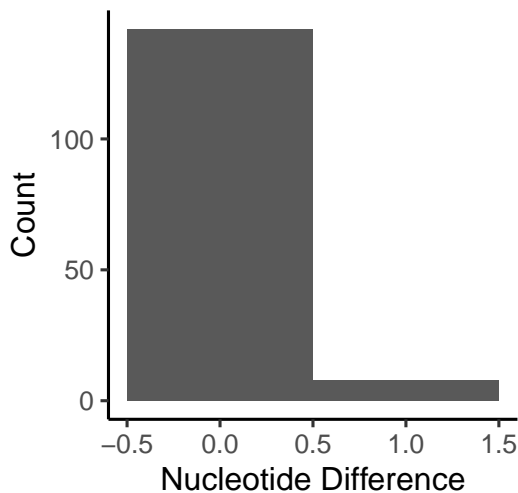
TRBV6–23*ap01

32350 sequences assigned
32293 (99.8%) exact matches, in which:
32280 unique CDR3
13 unique J



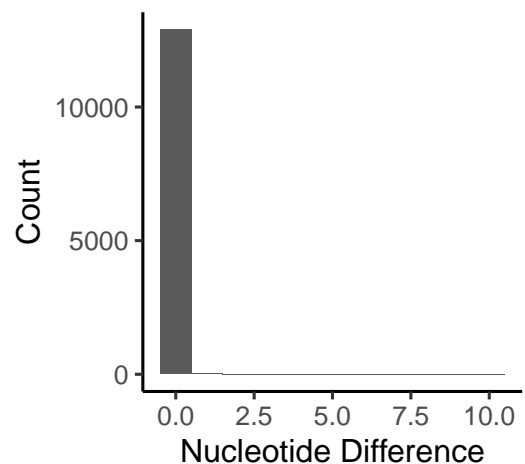
TRBV7–1*ap01_G291C_

150 sequences assigned
142 (94.7%) exact matches, in which:
142 unique CDR3
12 unique J



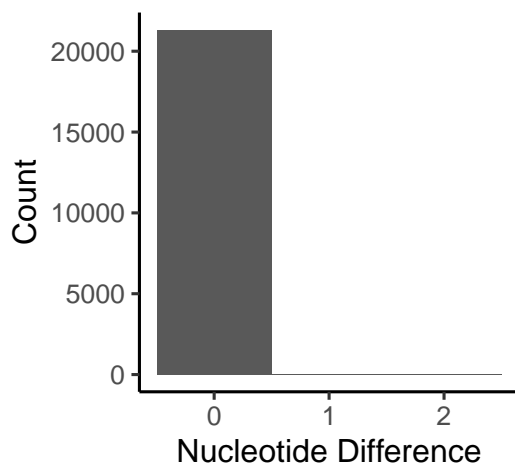
TRBV7–3*ap01

12950 sequences assigned
12902 (99.6%) exact matches, in which:
12895 unique CDR3
13 unique J



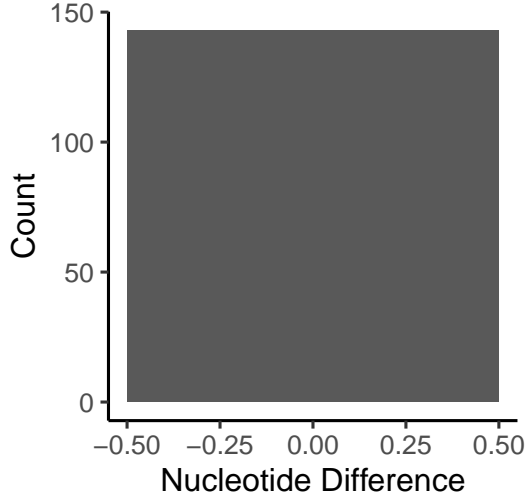
TRBV6–56*ap01

21358 sequences assigned
21325 (99.8%) exact matches, in which:
21316 unique CDR3
12 unique J



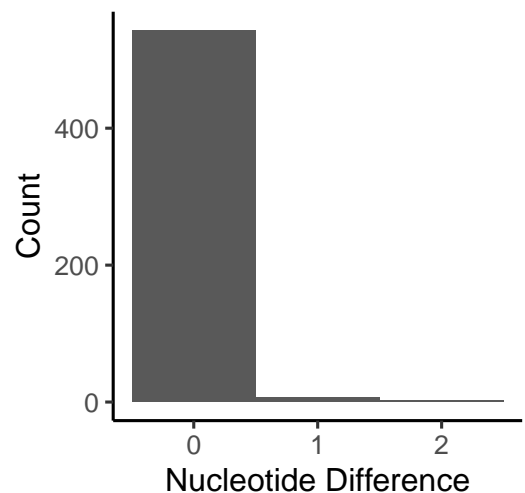
TRBV7–1*ap01_G291C_

143 sequences assigned
143 (100%) exact matches, in which:
143 unique CDR3
11 unique J



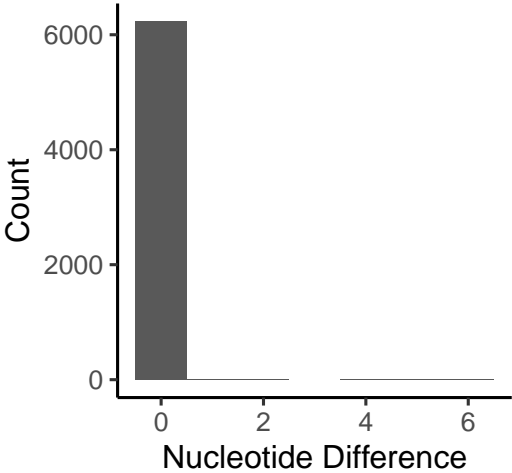
TRBV7–4*ap01

551 sequences assigned
543 (98.5%) exact matches, in which:
543 unique CDR3
12 unique J



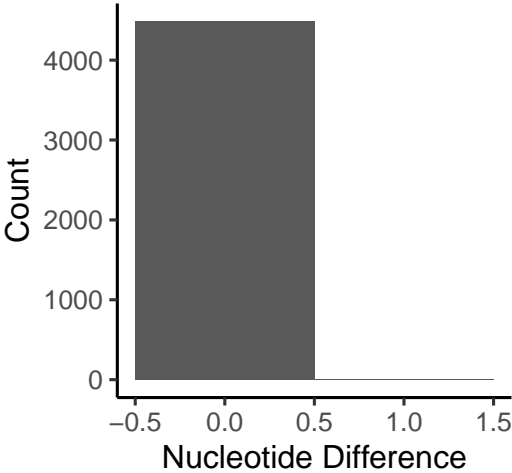
TRBV7-6*ap01

6244 sequences assigned
6232 (99.8%) exact matches, in which:
6230 unique CDR3
12 unique J



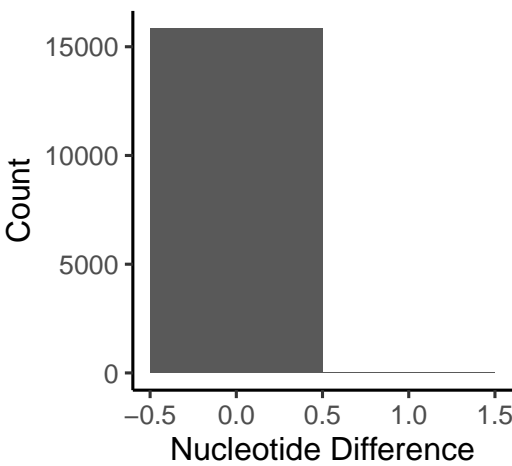
TRBV7-8*ap01

4491 sequences assigned
4485 (99.9%) exact matches, in which:
4484 unique CDR3
12 unique J



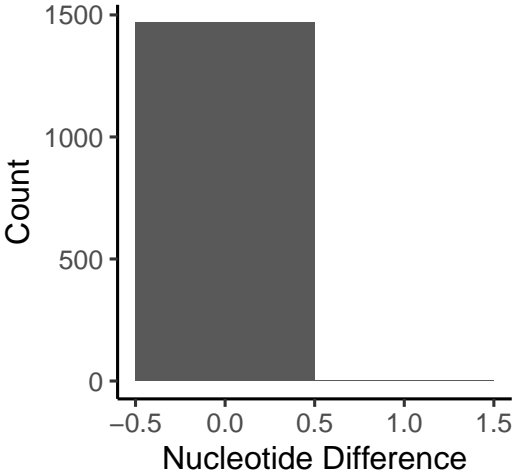
TRBV29-1*ap01

15896 sequences assigned
15855 (99.7%) exact matches, in which:
15811 unique CDR3
13 unique J



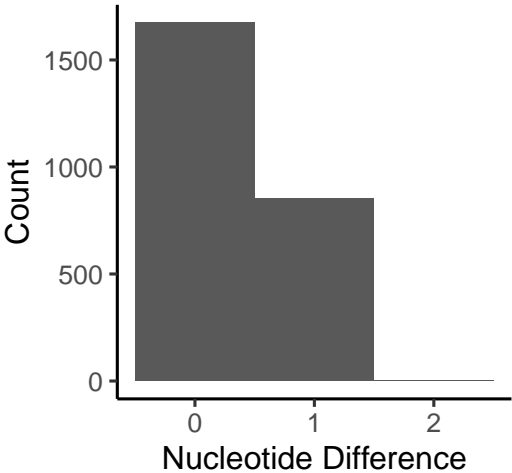
TRBV7-7*ap01

1469 sequences assigned
1468 (99.9%) exact matches, in which:
1468 unique CDR3
12 unique J



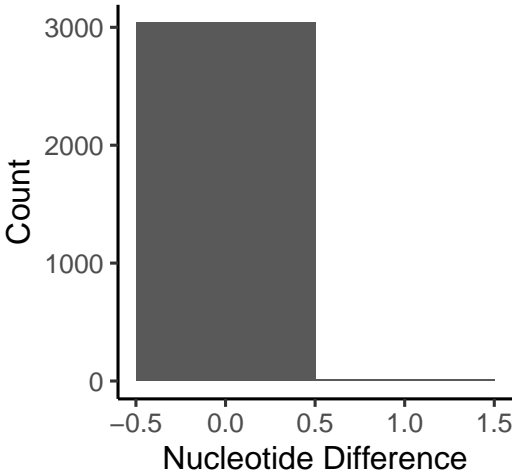
TRBV7-8*ap03

2530 sequences assigned
1674 (66.2%) exact matches, in which:
1674 unique CDR3
12 unique J



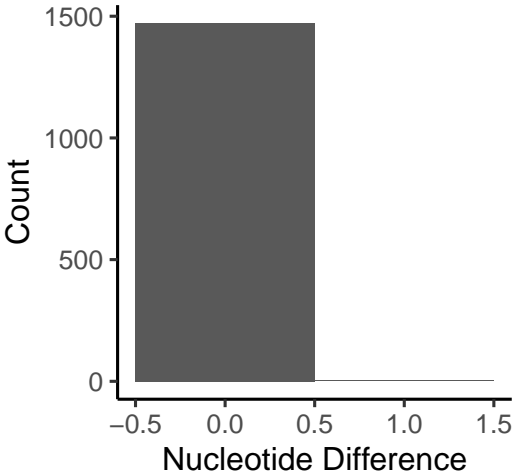
TRBV29-1*ap02

3049 sequences assigned
3039 (99.7%) exact matches, in which:
3034 unique CDR3
13 unique J



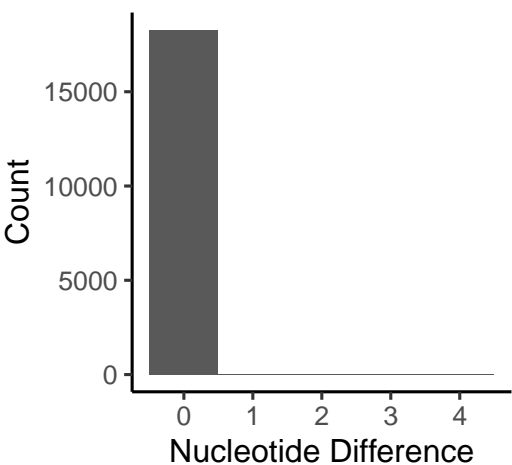
TRBV7-7*ap01_C315T

1475 sequences assigned
1472 (99.8%) exact matches, in which:
1472 unique CDR3
12 unique J

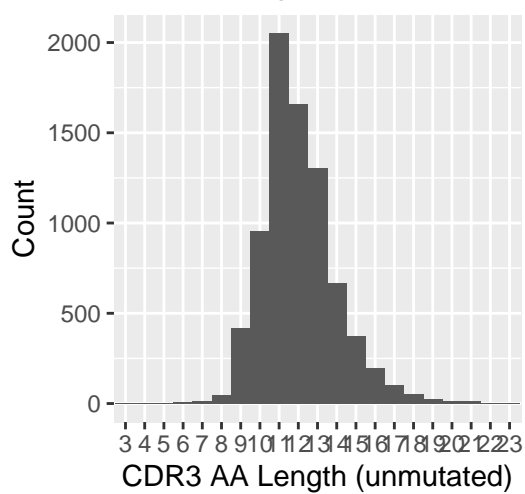


TRBV7-9*ap01

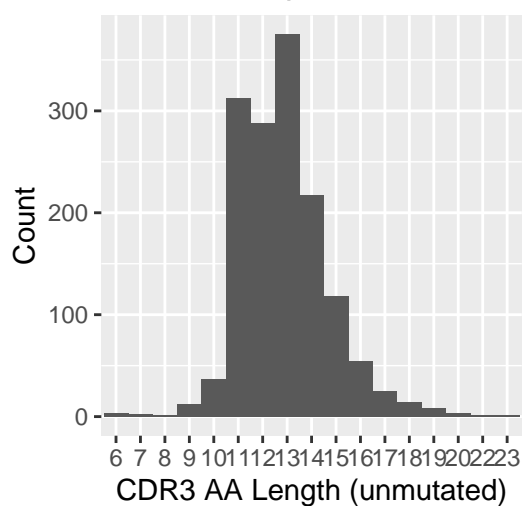
18306 sequences assigned
18285 (99.9%) exact matches, in which:
18284 unique CDR3
13 unique J



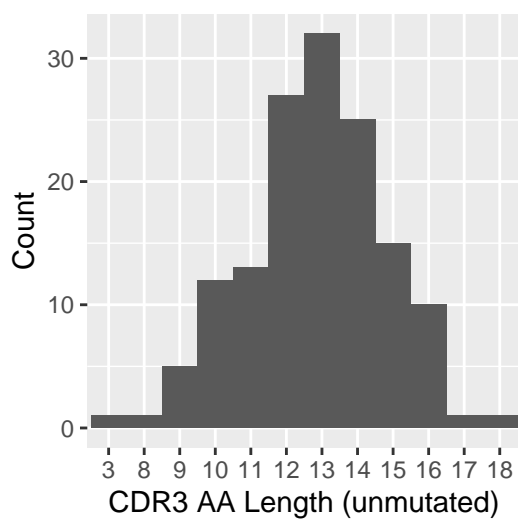
TRBV30*ap01_G298A



TRBV7-7*ap01_C315T



TRBV7-1*ap01_G291C_T296C_C314T



TRBV7-1*ap01_G291C_T296C

