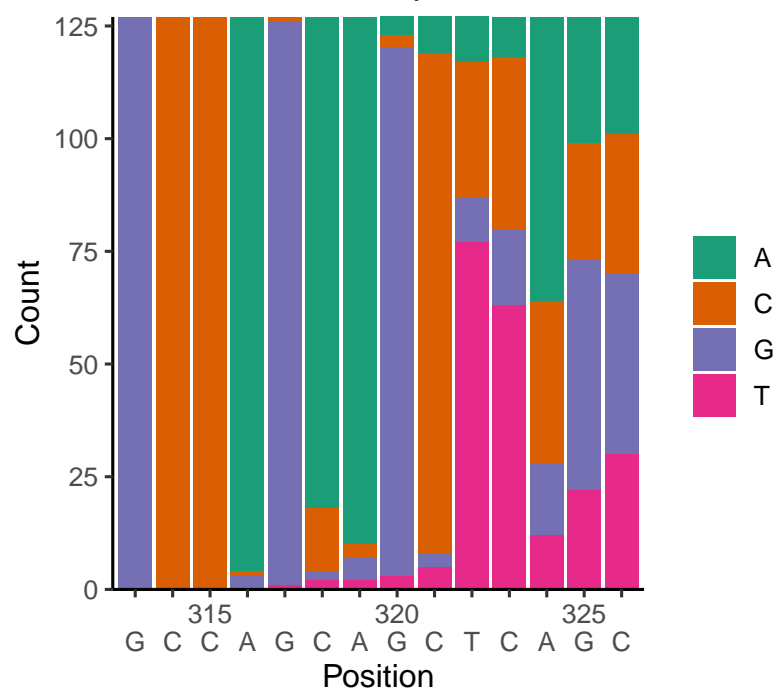
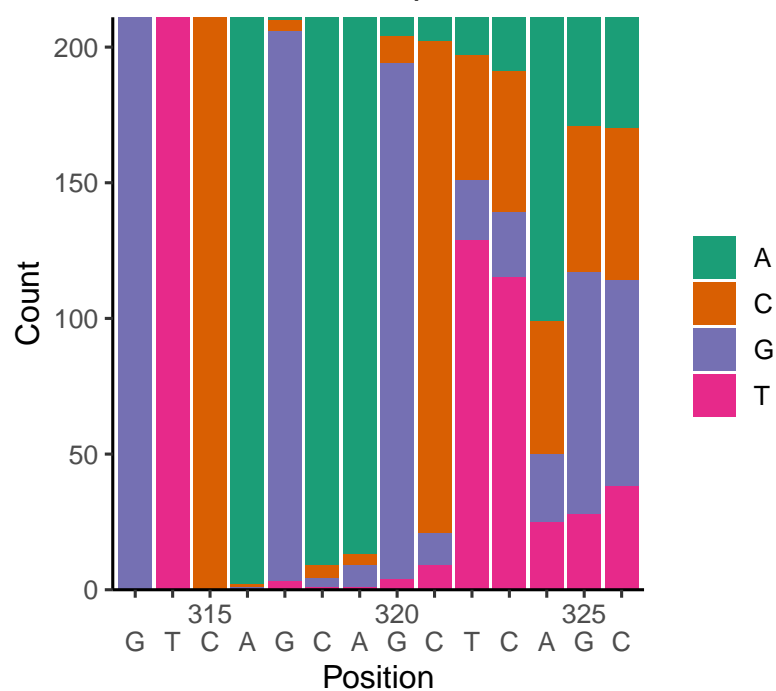


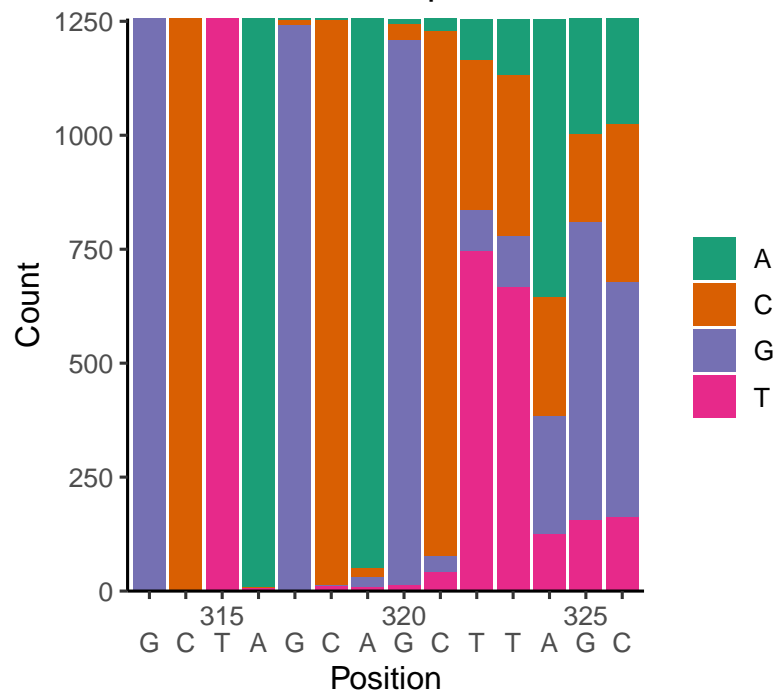
Gene TRBV7-1*ap01_G291C_T296C



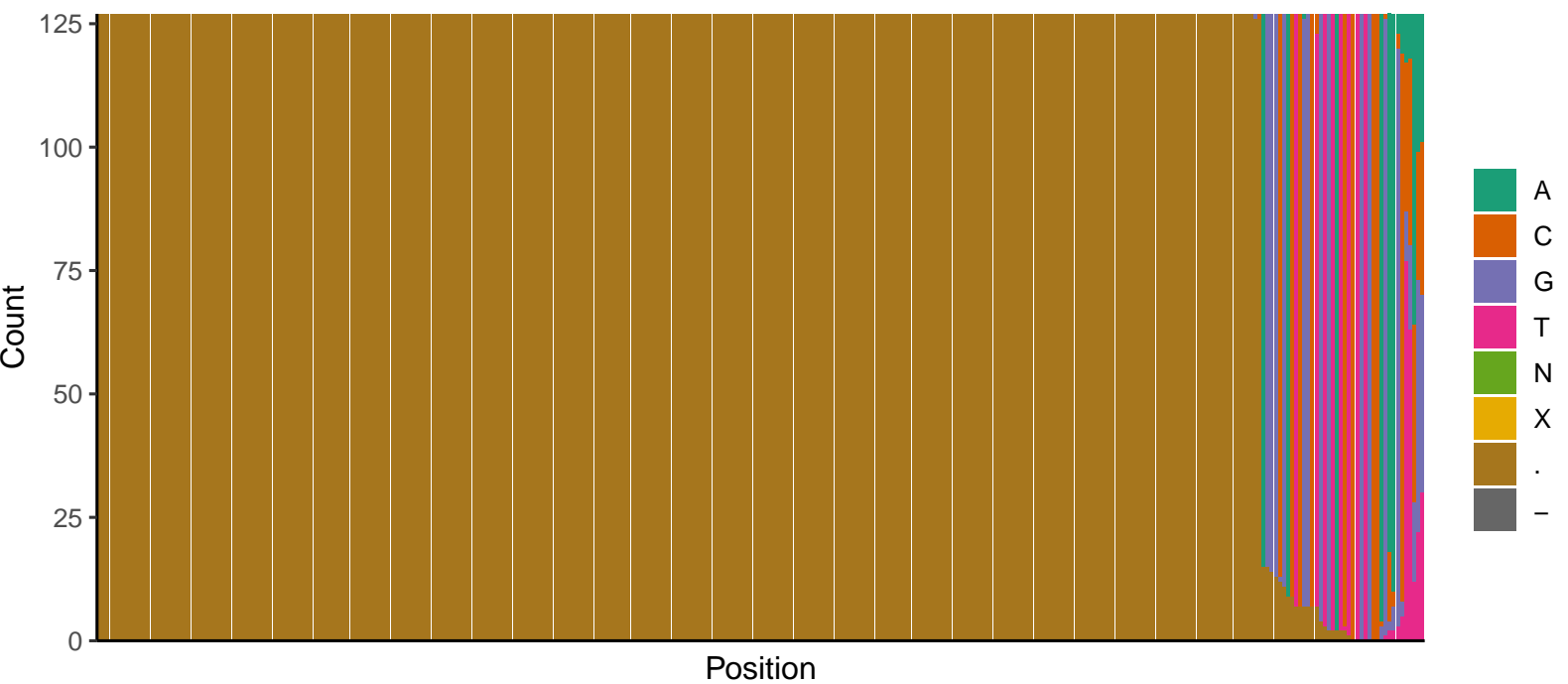
Gene TRBV7-1*ap01_G291C_T296C_C314T



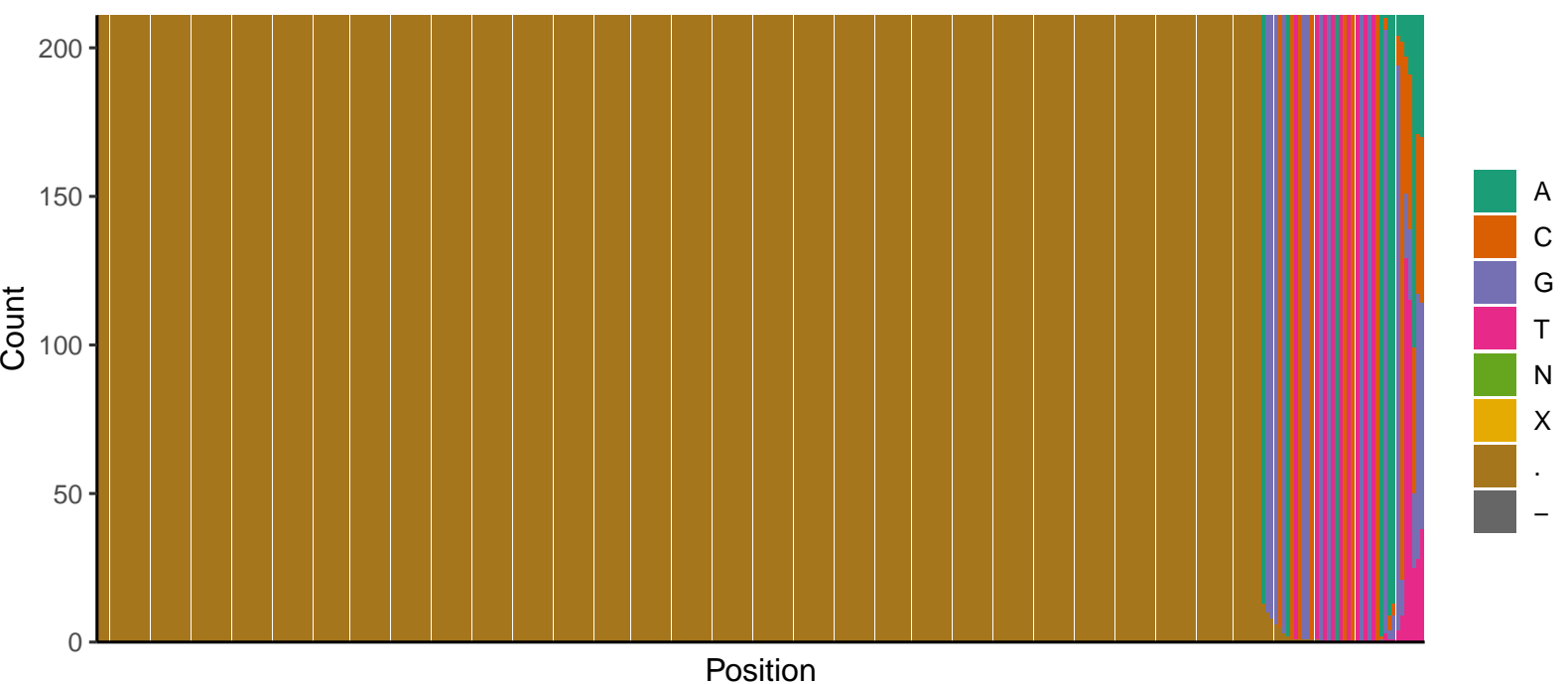
Gene TRBV7-7*ap01_C315T



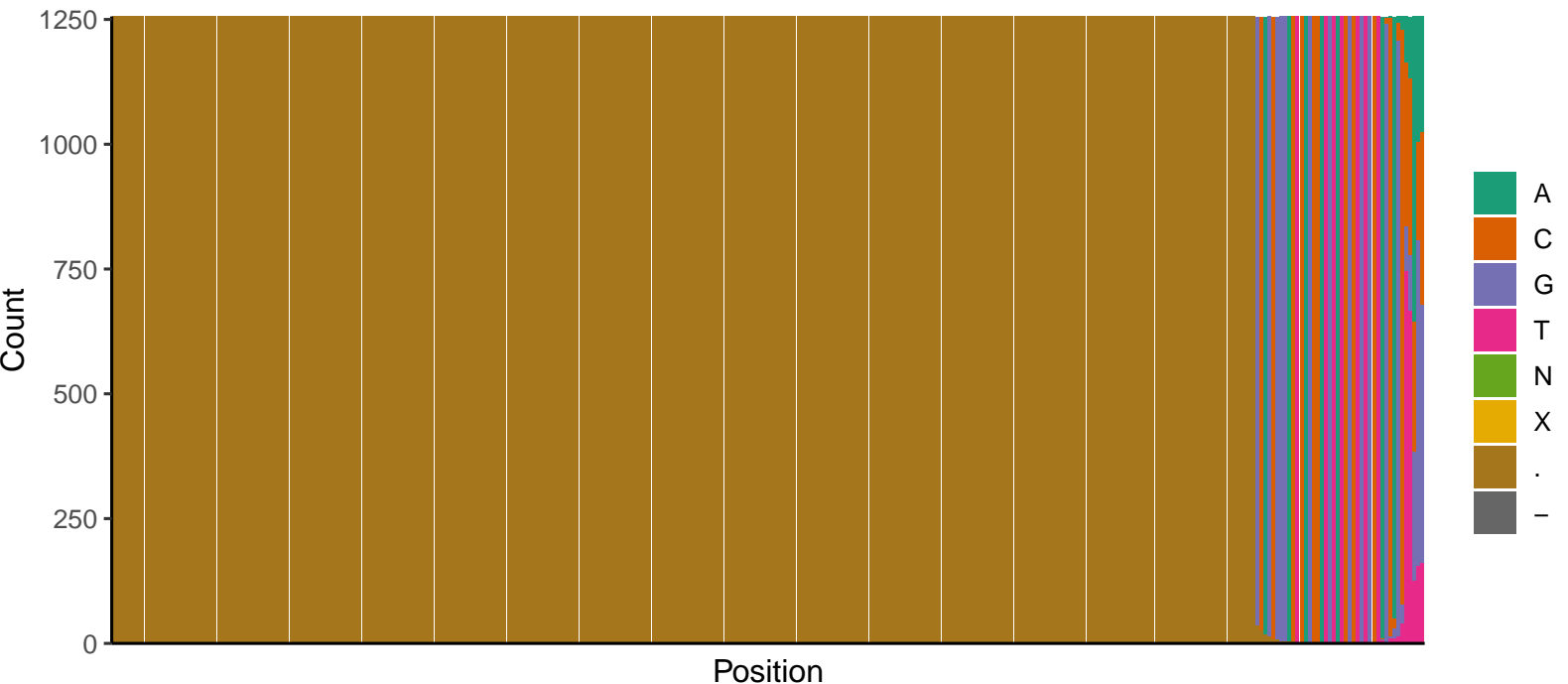
Gene TRBV7-1*ap01_G291C_T296C



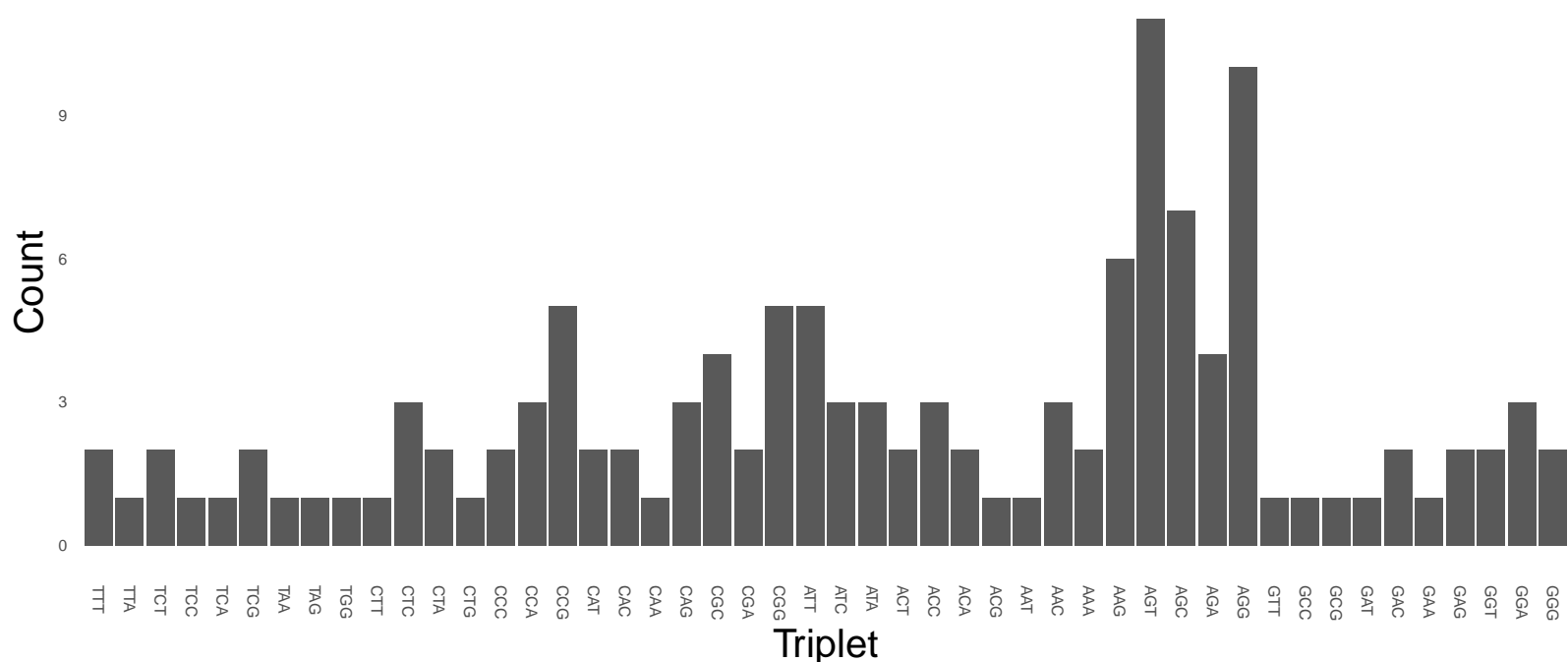
Gene TRBV7-1*ap01_G291C_T296C_C314T



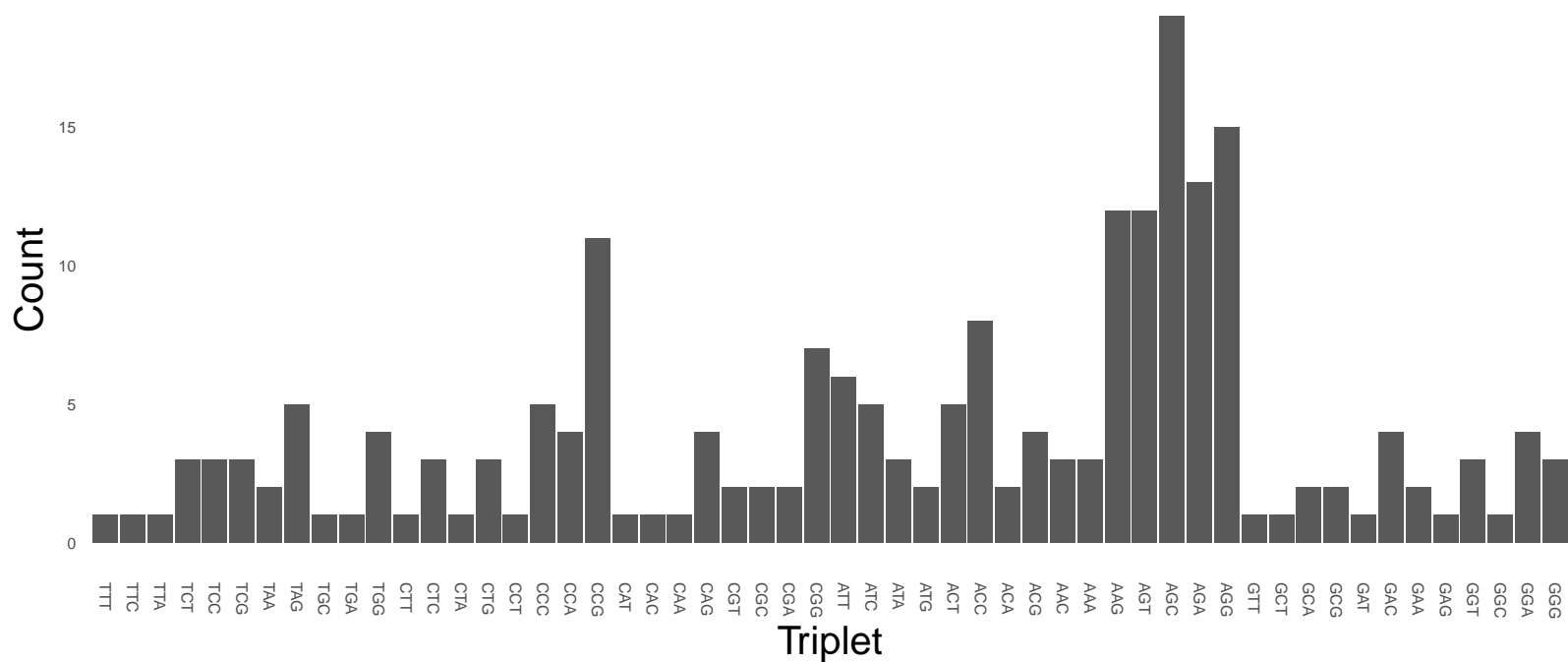
Gene TRBV7-7*ap01_C315T



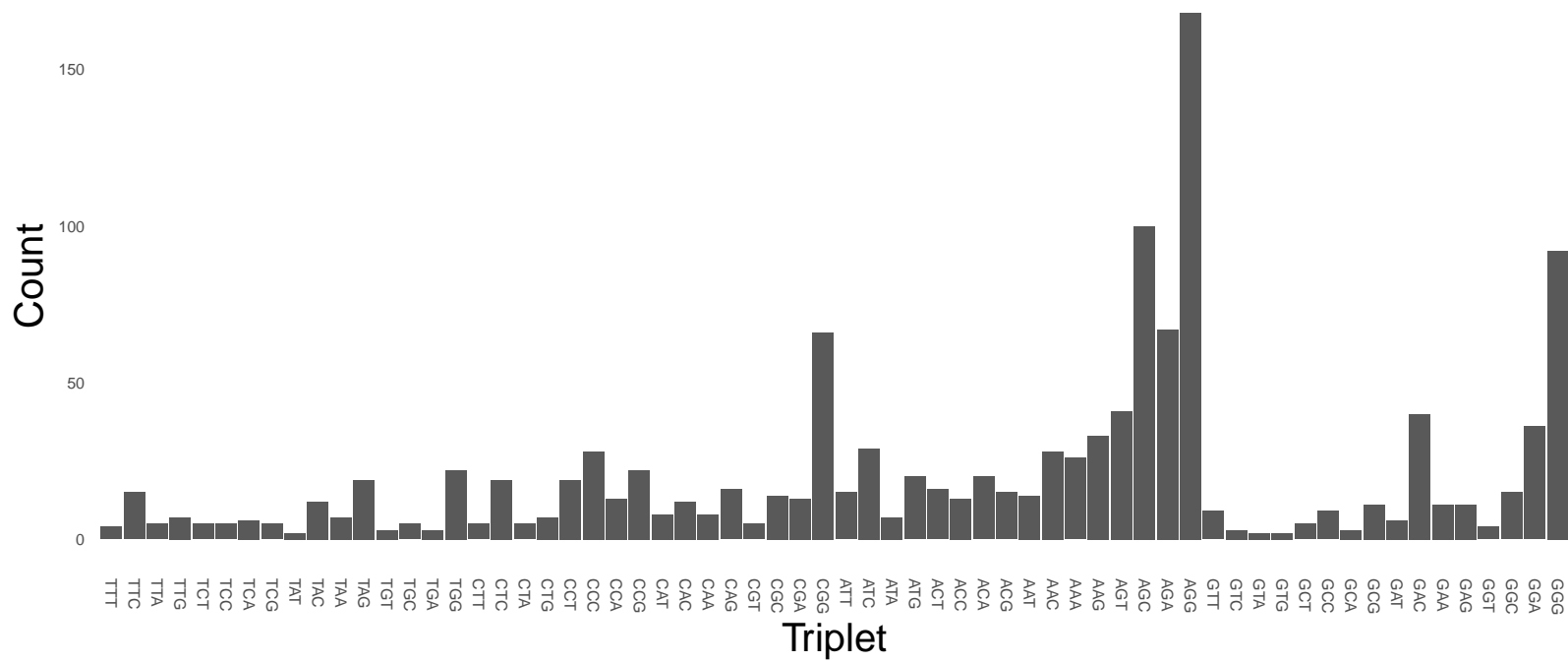
TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet



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

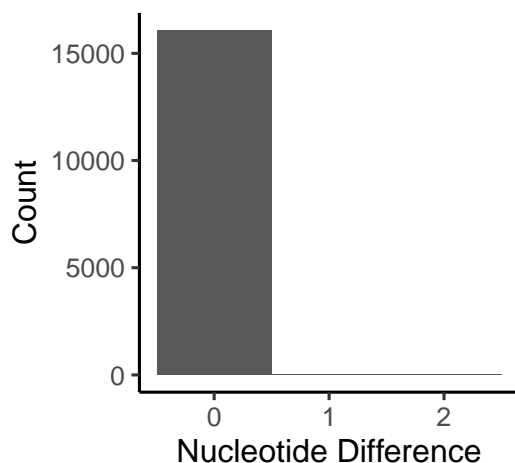


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



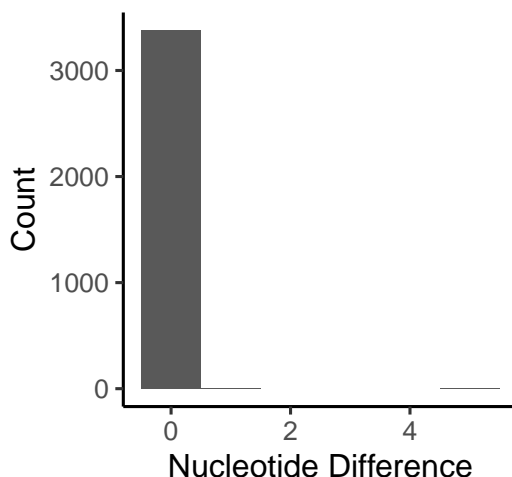
TRBV20-1*ap01

16111 sequences assigned
16082 (99.8%) exact matches, in which:
16064 unique CDR3
14 unique J



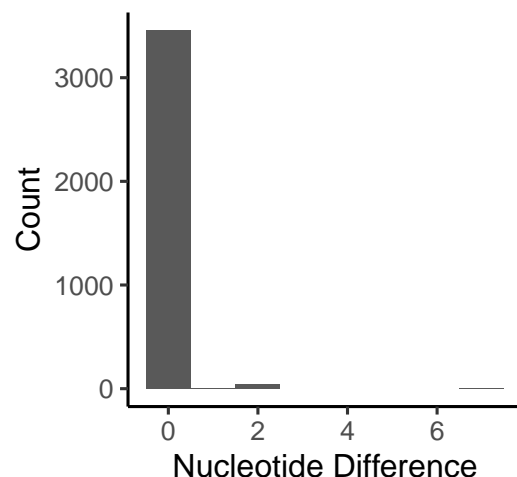
TRBV10-2*ap01

3382 sequences assigned
3378 (99.9%) exact matches, in which:
3378 unique CDR3
14 unique J



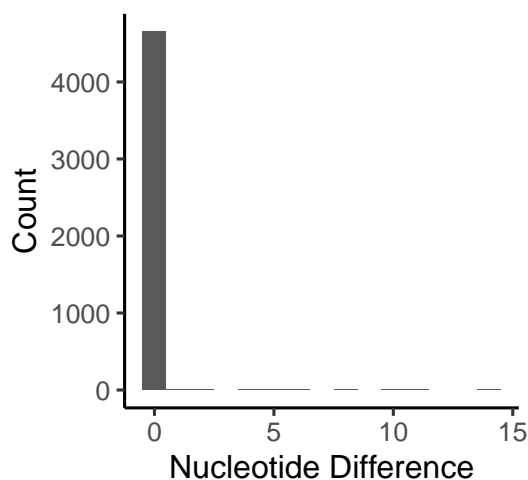
TRBV13*ap01

3500 sequences assigned
3456 (98.7%) exact matches, in which:
3453 unique CDR3
14 unique J



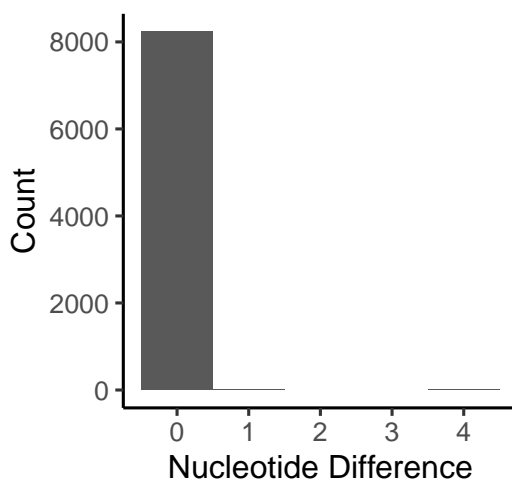
TRBV10-1*ap01

4666 sequences assigned
4652 (99.7%) exact matches, in which:
4652 unique CDR3
14 unique J



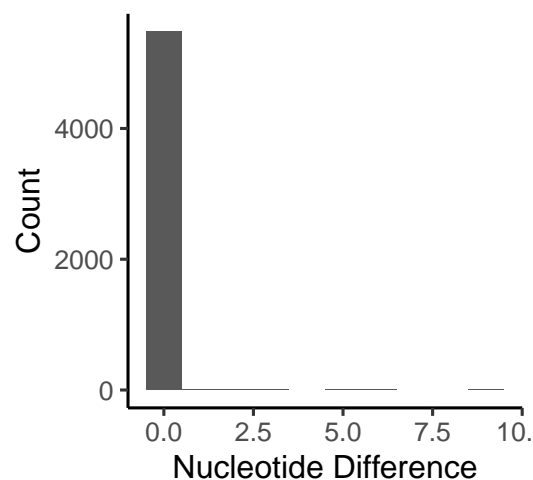
TRBV10-3*ap01

8248 sequences assigned
8234 (99.8%) exact matches, in which:
8226 unique CDR3
14 unique J



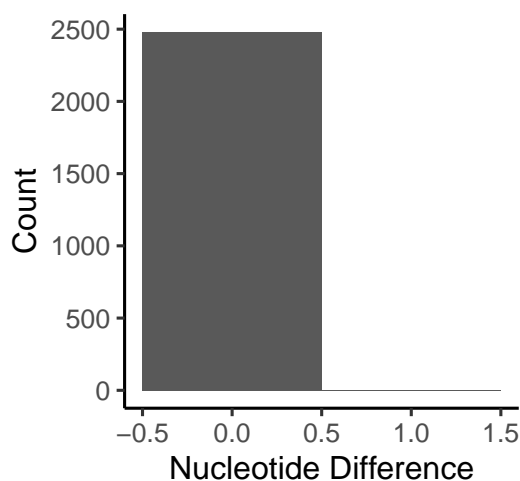
TRBV14*ap01

5493 sequences assigned
5480 (99.8%) exact matches, in which:
5478 unique CDR3
14 unique J



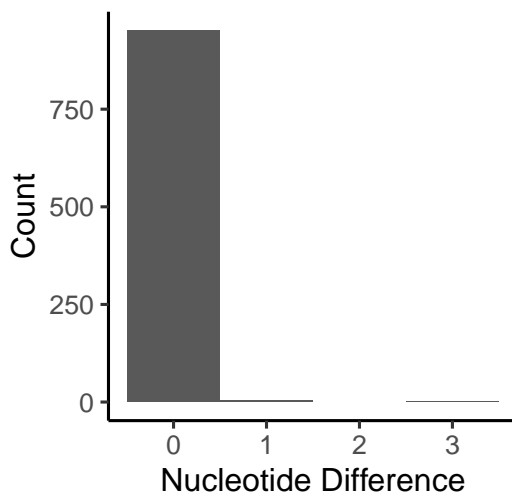
TRBV20-1*ap02

2482 sequences assigned
2480 (99.9%) exact matches, in which:
2477 unique CDR3
14 unique J



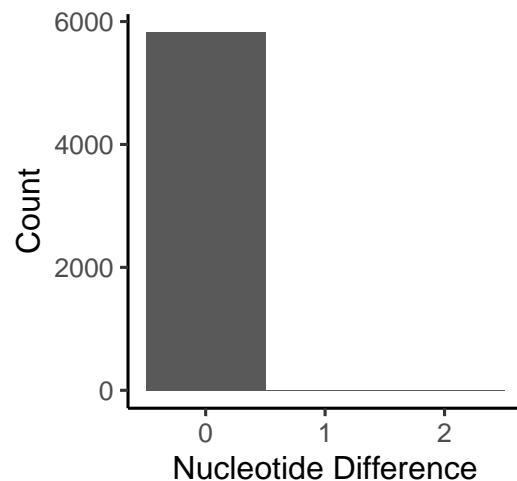
TRBV1*ap01

956 sequences assigned
952 (99.6%) exact matches, in which:
949 unique CDR3
14 unique J



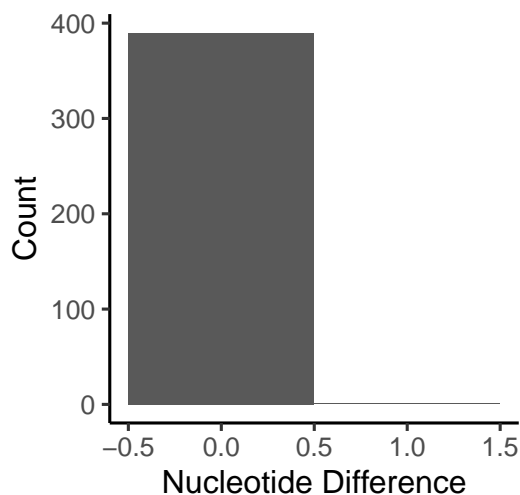
TRBV15*ap02

5836 sequences assigned
5829 (99.9%) exact matches, in which:
5824 unique CDR3
14 unique J



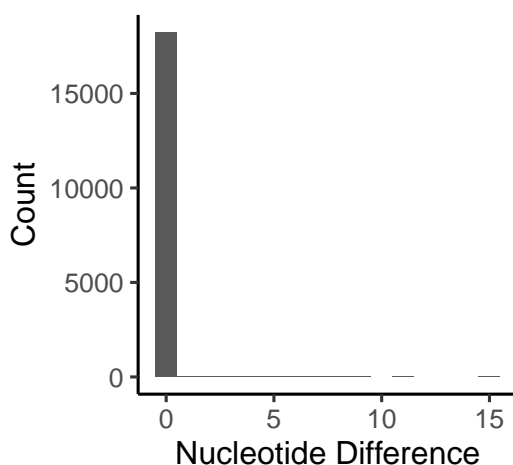
TRBV16*ap01

391 sequences assigned
390 (99.7%) exact matches, in which:
390 unique CDR3
14 unique J



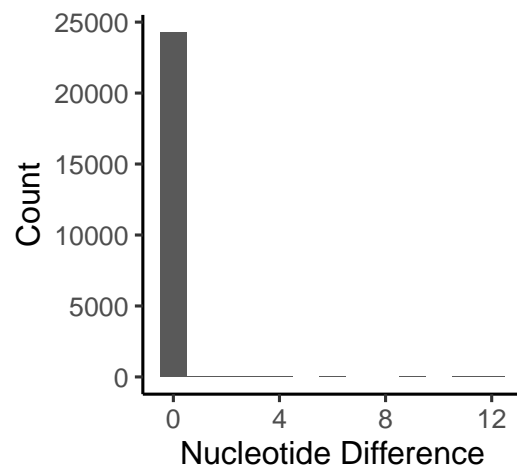
TRBV19*ap01

18296 sequences assigned
18243 (99.7%) exact matches, in which:
18241 unique CDR3
14 unique J



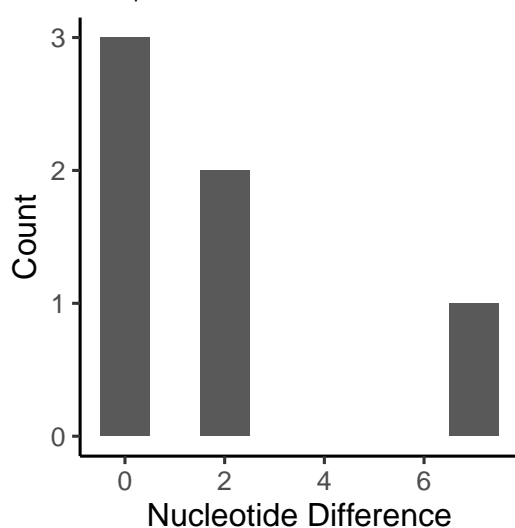
TRBV27*ap01

24378 sequences assigned
24292 (99.6%) exact matches, in which:
24236 unique CDR3
14 unique J



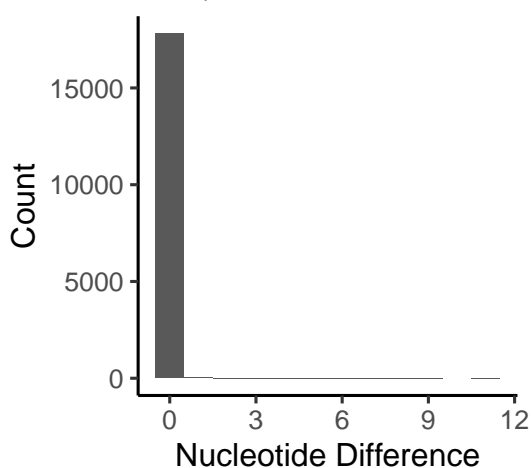
TRBV17*ap01

6 sequences assigned
3 (50%) exact matches, in which:
3 unique CDR3
3 unique J



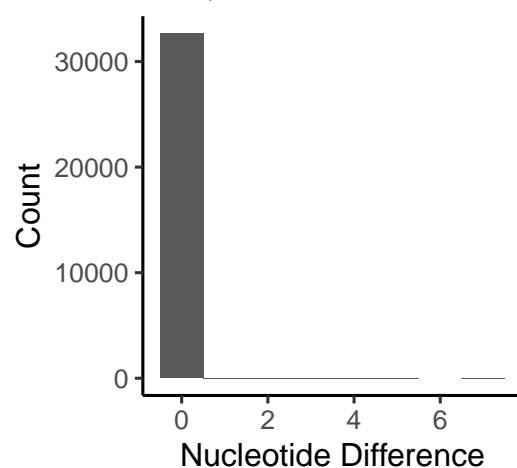
TRBV2*ap01

17873 sequences assigned
17814 (99.7%) exact matches, in which:
17782 unique CDR3
14 unique J



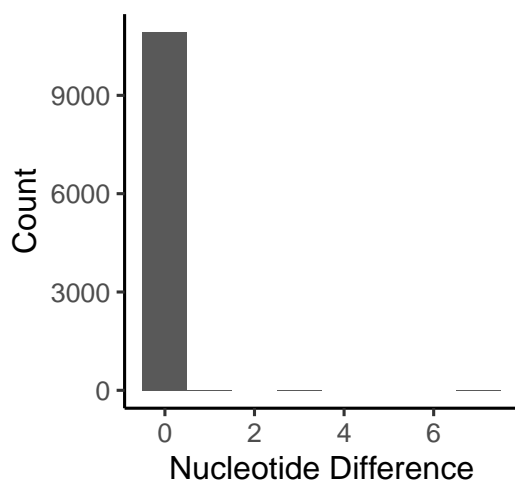
TRBV28*ap01

32710 sequences assigned
32658 (99.8%) exact matches, in which:
32647 unique CDR3
14 unique J



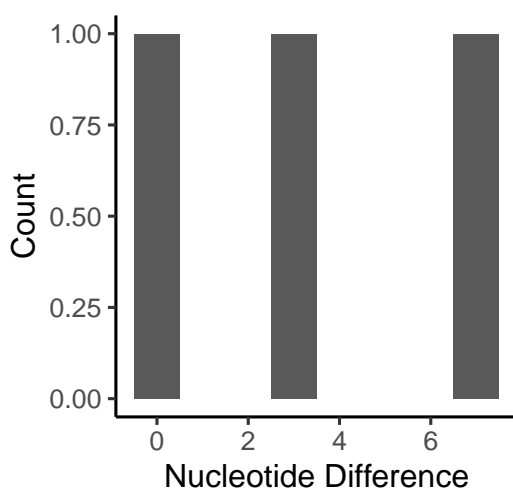
TRBV18*ap01

10943 sequences assigned
10932 (99.9%) exact matches, in which:
10928 unique CDR3
14 unique J



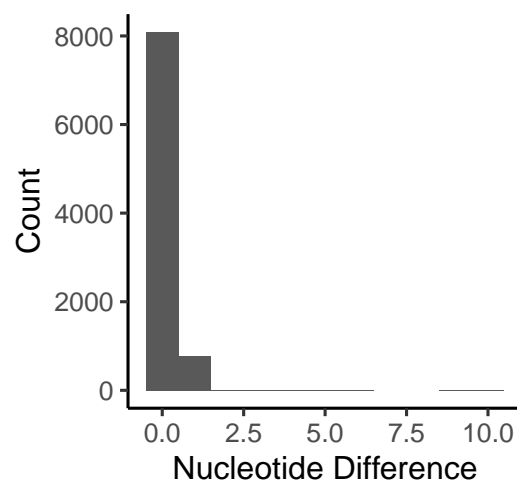
TRBV26*ap01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



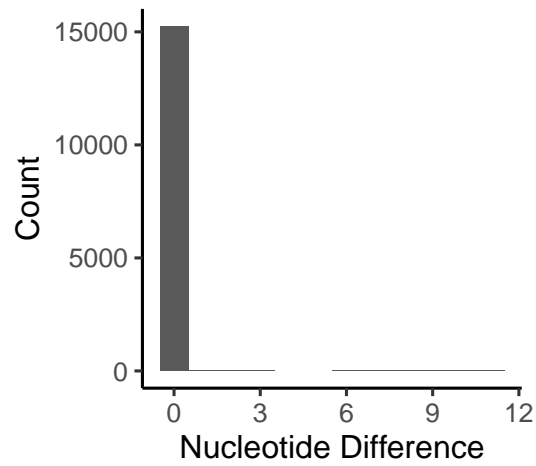
TRBV30*ap01

8884 sequences assigned
8088 (91%) exact matches, in which:
8072 unique CDR3
14 unique J



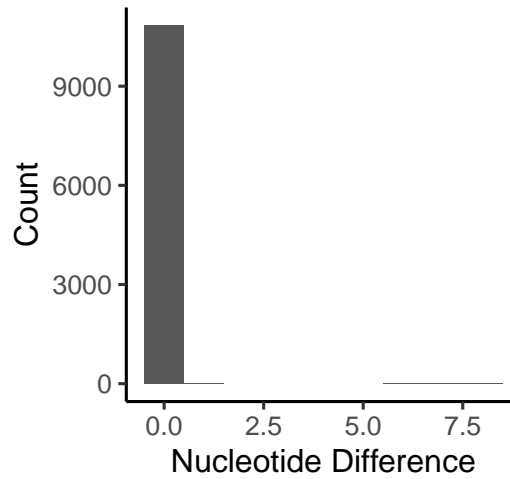
TRBV9*ap01

15283 sequences assigned
15253 (99.8%) exact matches, in which:
15239 unique CDR3
14 unique J



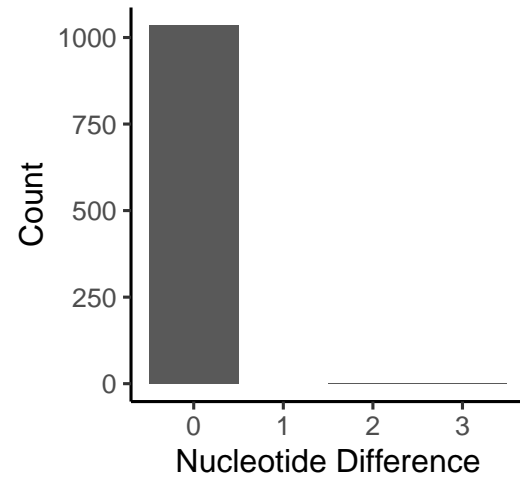
TRBV11-2*ap01

10860 sequences assigned
10839 (99.8%) exact matches, in which:
10837 unique CDR3
14 unique J



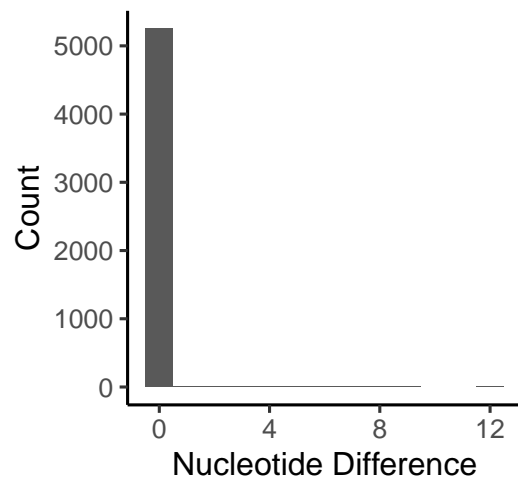
TRBV12-2*ap01

1037 sequences assigned
1035 (99.8%) exact matches, in which:
1035 unique CDR3
14 unique J



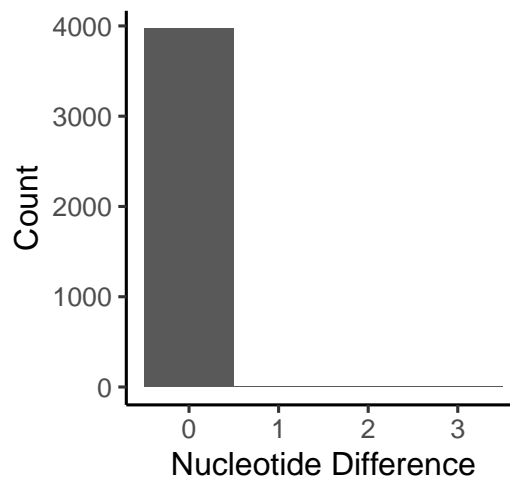
TRBV21-1*ap01

5291 sequences assigned
5251 (99.2%) exact matches, in which:
5251 unique CDR3
14 unique J



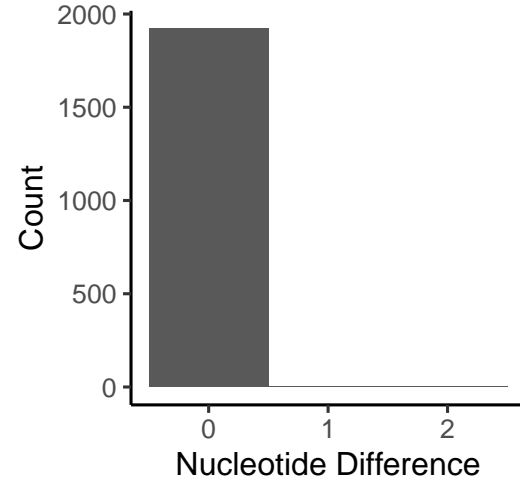
TRBV11-3*ap01

3978 sequences assigned
3969 (99.8%) exact matches, in which:
3968 unique CDR3
14 unique J



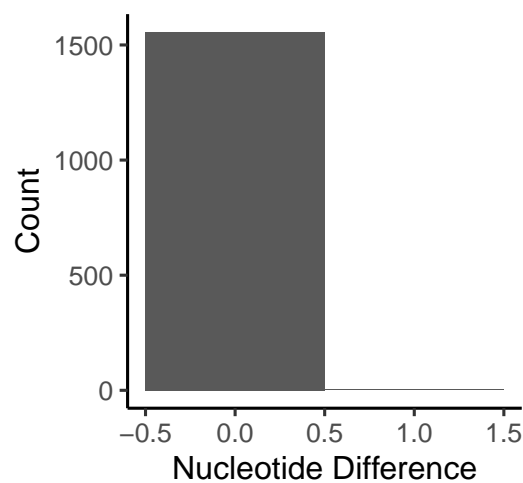
TRBV12-5*ap01

1926 sequences assigned
1921 (99.7%) exact matches, in which:
1921 unique CDR3
14 unique J



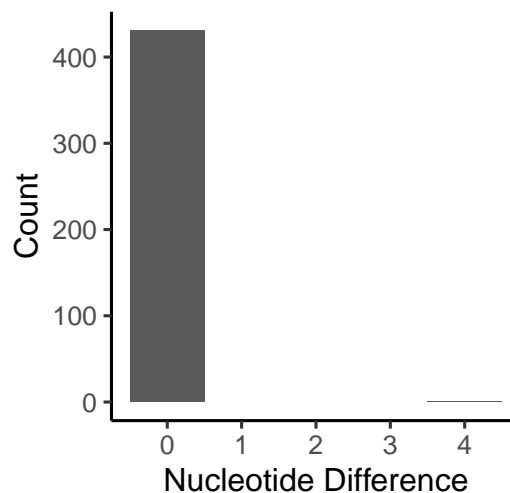
TRBV11-1*ap01

1559 sequences assigned
1556 (99.8%) exact matches, in which:
1556 unique CDR3
14 unique J



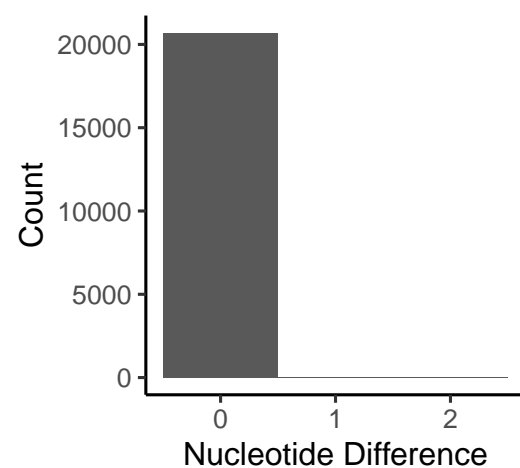
TRBV12-1*ap01

432 sequences assigned
431 (99.8%) exact matches, in which:
431 unique CDR3
14 unique J



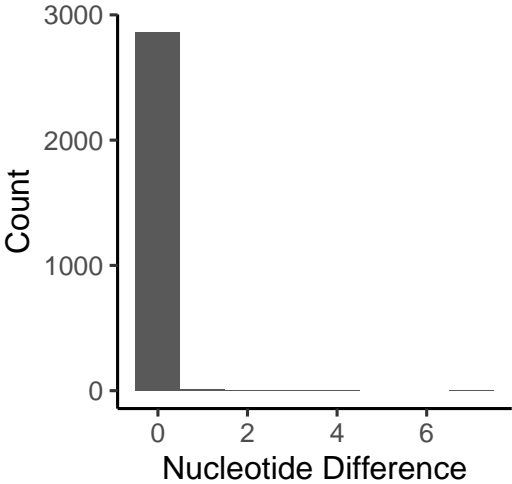
TRBV12-34*ap01

20737 sequences assigned
20698 (99.8%) exact matches, in which:
20692 unique CDR3
14 unique J



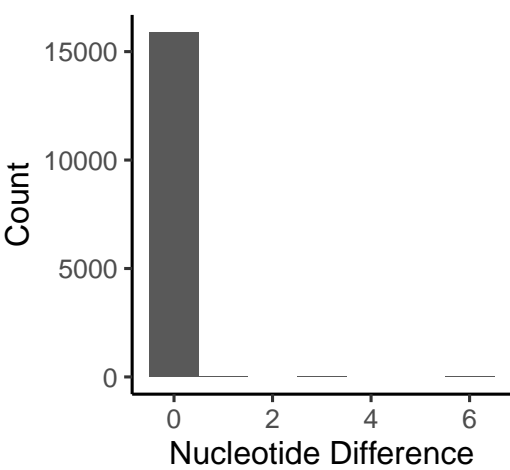
TRBV23-1*ap01

2874 sequences assigned
2860 (99.5%) exact matches, in which:
2860 unique CDR3
14 unique J



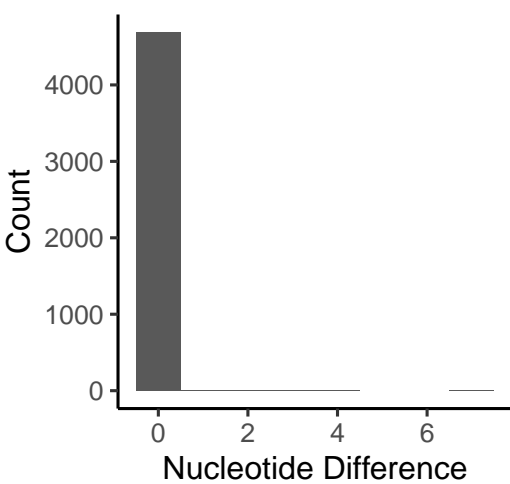
TRBV4-1*ap01

15929 sequences assigned
15898 (99.8%) exact matches, in which:
15891 unique CDR3
14 unique J



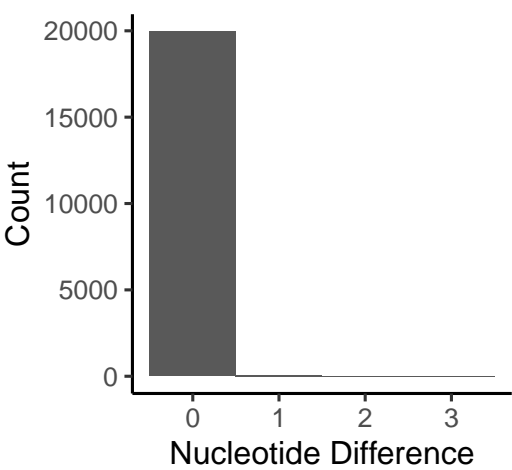
TRBV25-1*ap01

4705 sequences assigned
4687 (99.6%) exact matches, in which:
4675 unique CDR3
14 unique J



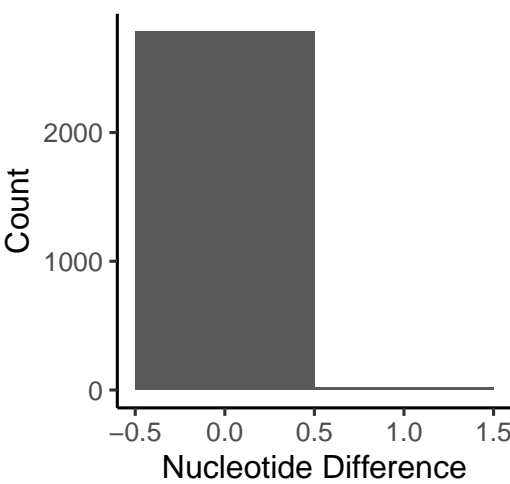
TRBV3-12*ap01

20031 sequences assigned
19961 (99.7%) exact matches, in which:
19925 unique CDR3
14 unique J



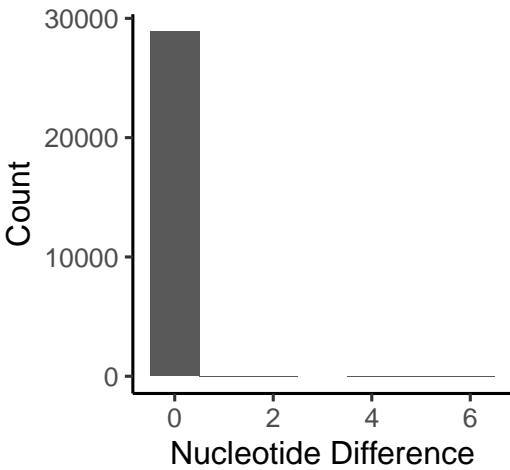
TRBV4-2*ap01

2800 sequences assigned
2783 (99.4%) exact matches, in which:
2783 unique CDR3
14 unique J



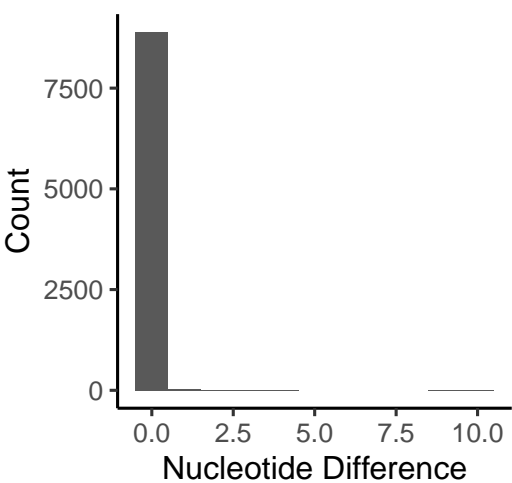
TRBV5-1*ap01

28943 sequences assigned
28900 (99.9%) exact matches, in which:
28846 unique CDR3
14 unique J



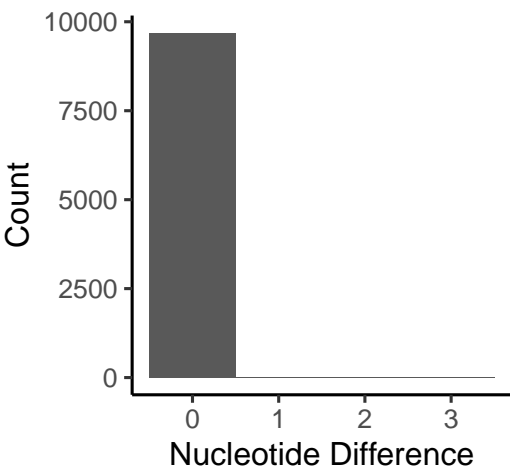
TRBV24-1*ap01

8930 sequences assigned
8892 (99.6%) exact matches, in which:
8881 unique CDR3
14 unique J



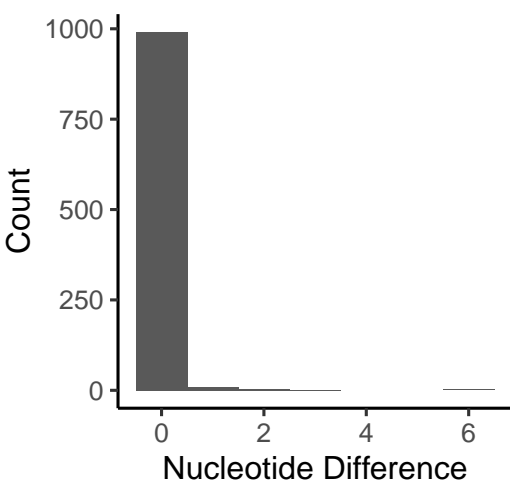
TRBV4-3*ap01

9715 sequences assigned
9690 (99.7%) exact matches, in which:
9685 unique CDR3
14 unique J



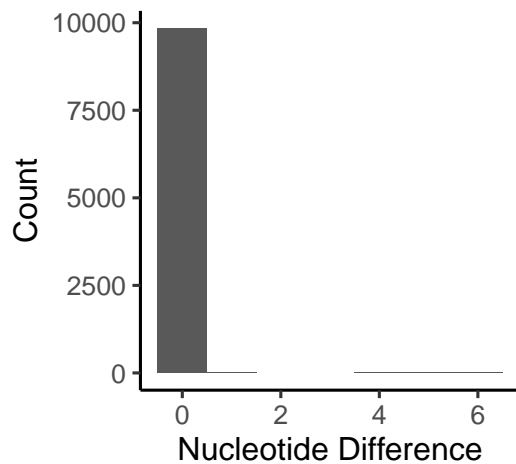
TRBV5-3*ap01

1007 sequences assigned
991 (98.4%) exact matches, in which:
991 unique CDR3
14 unique J



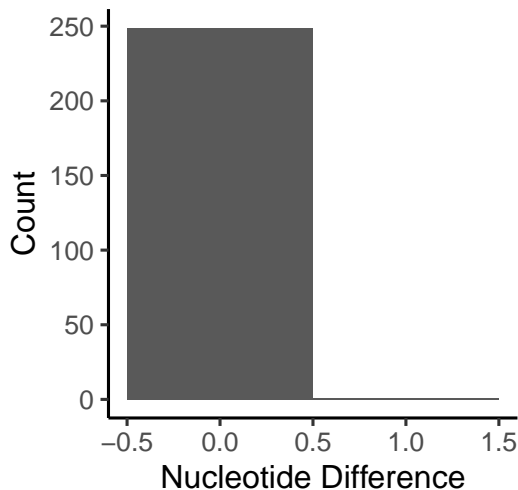
TRBV5-4*ap01

9862 sequences assigned
9845 (99.8%) exact matches, in which:
9840 unique CDR3
14 unique J



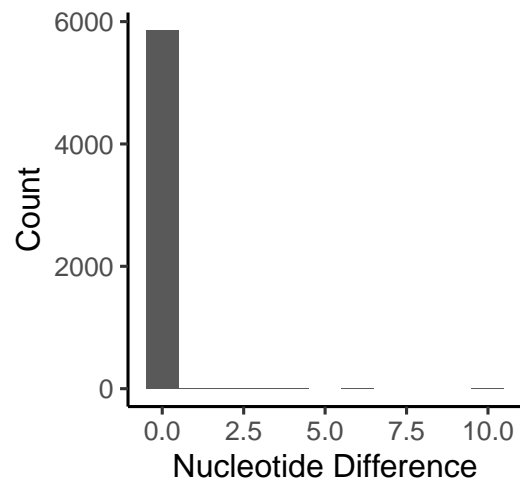
TRBV5-7*ap01

250 sequences assigned
249 (99.6%) exact matches, in which:
249 unique CDR3
14 unique J



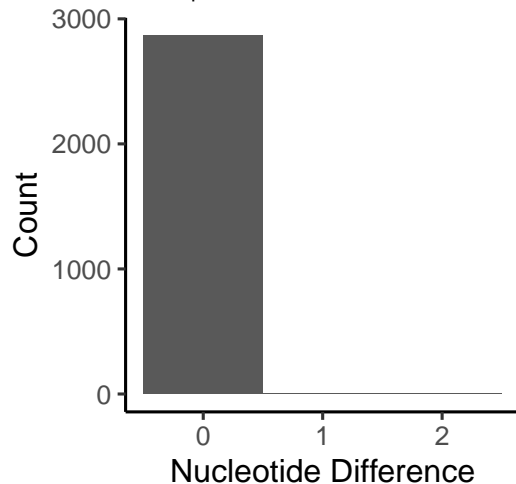
TRBV6-4*ap01

5875 sequences assigned
5856 (99.7%) exact matches, in which:
5856 unique CDR3
14 unique J



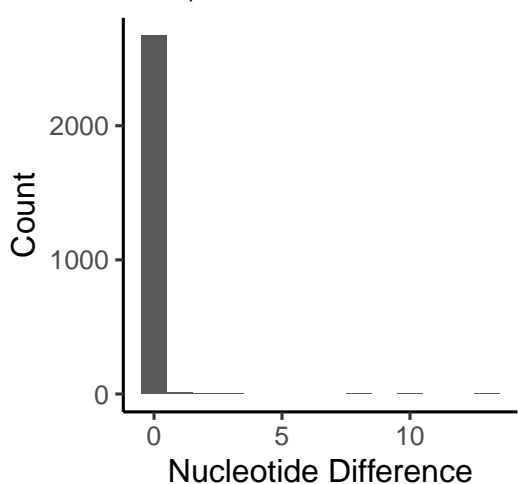
TRBV5-5*ap01

2872 sequences assigned
2865 (99.8%) exact matches, in which:
2862 unique CDR3
14 unique J



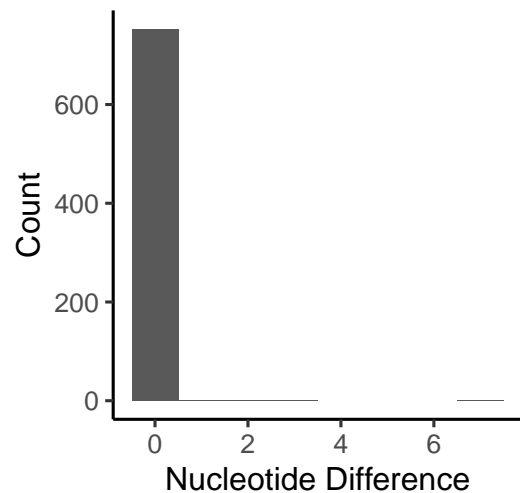
TRBV5-8*ap01

2690 sequences assigned
2671 (99.3%) exact matches, in which:
2671 unique CDR3
14 unique J



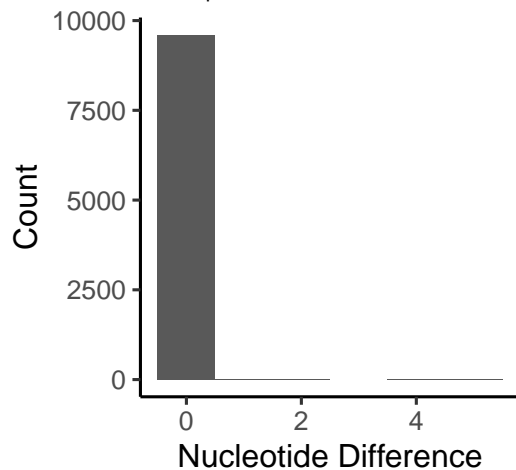
TRBV6-7*ap01

758 sequences assigned
753 (99.3%) exact matches, in which:
753 unique CDR3
14 unique J



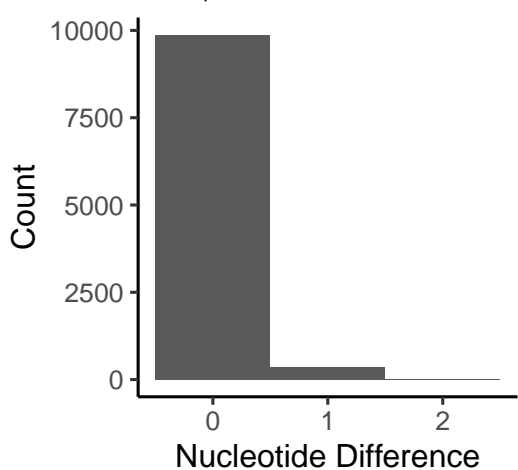
TRBV5-6*ap01

9631 sequences assigned
9604 (99.7%) exact matches, in which:
9561 unique CDR3
14 unique J



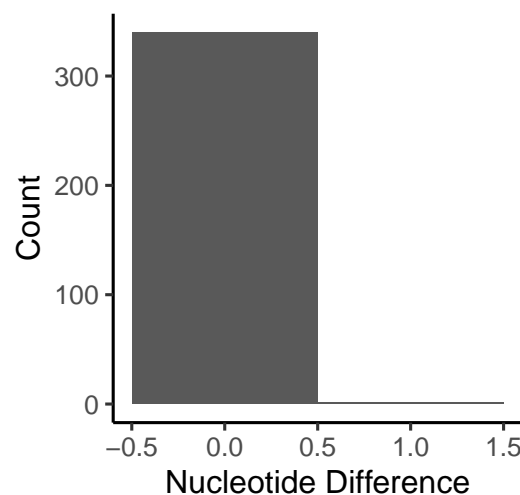
TRBV6-1*ap01

10231 sequences assigned
9875 (96.5%) exact matches, in which:
9864 unique CDR3
14 unique J



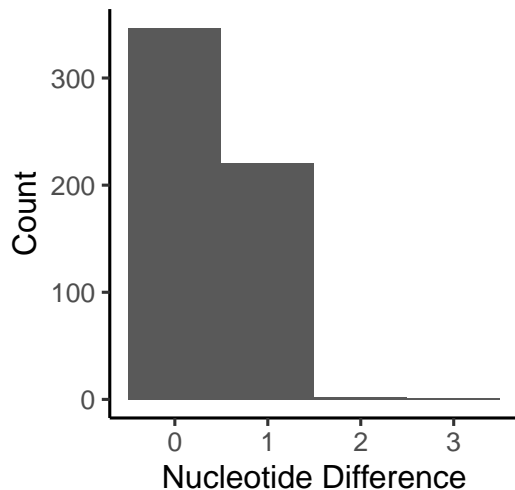
TRBV6-8*ap01

341 sequences assigned
340 (99.7%) exact matches, in which:
340 unique CDR3
14 unique J



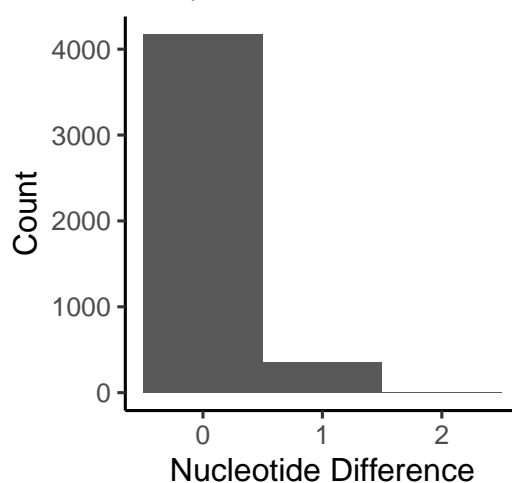
TRBV6–9*ap01

571 sequences assigned
347 (60.8%) exact matches, in which:
347 unique CDR3
14 unique J



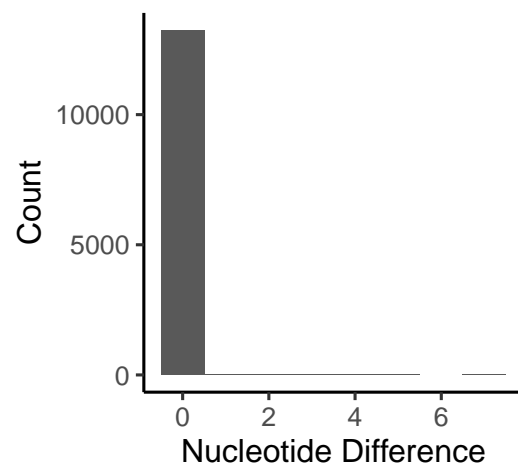
TRBV6–56*ap02

4531 sequences assigned
4172 (92.1%) exact matches, in which:
4164 unique CDR3
14 unique J



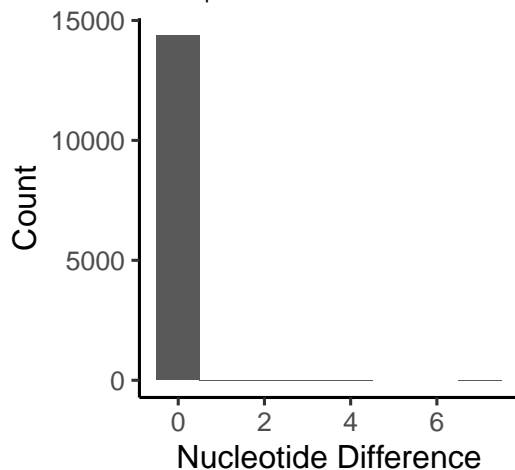
TRBV7–2*ap01

13268 sequences assigned
13246 (99.8%) exact matches, in which:
13244 unique CDR3
14 unique J



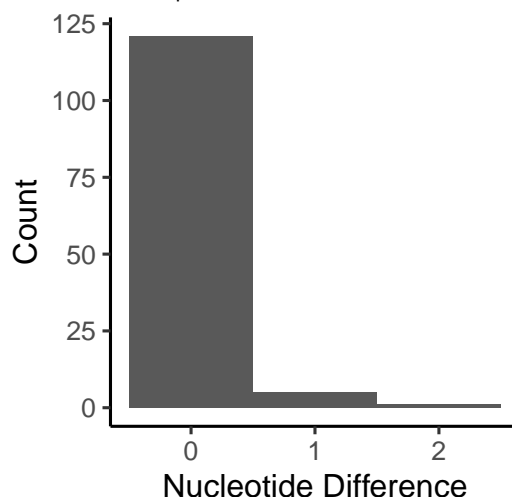
TRBV6–23*ap01

14398 sequences assigned
14374 (99.8%) exact matches, in which:
14353 unique CDR3
14 unique J



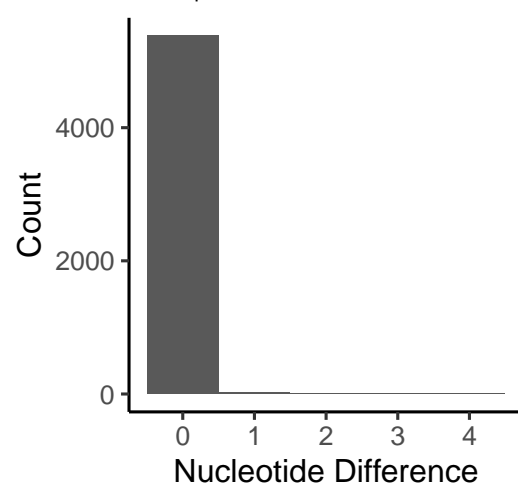
TRBV7–1*ap01_G291C_

127 sequences assigned
121 (95.3%) exact matches, in which:
121 unique CDR3
13 unique J



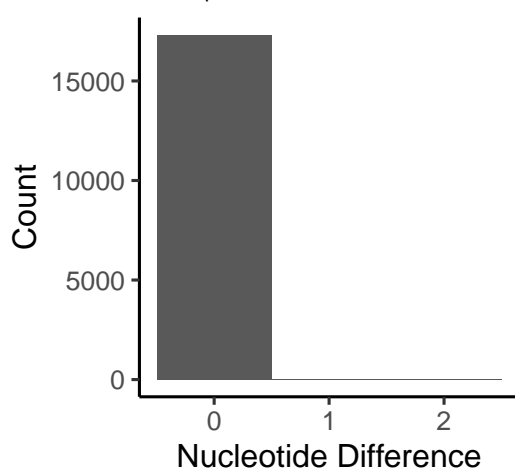
TRBV7–3*ap01

5404 sequences assigned
5381 (99.6%) exact matches, in which:
5376 unique CDR3
14 unique J



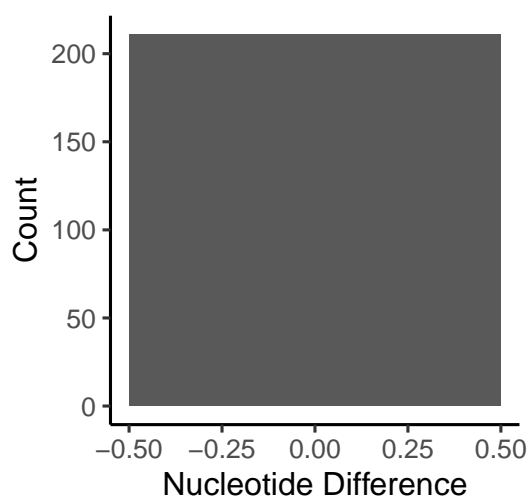
TRBV6–56*ap01

17357 sequences assigned
17319 (99.8%) exact matches, in which:
17301 unique CDR3
14 unique J



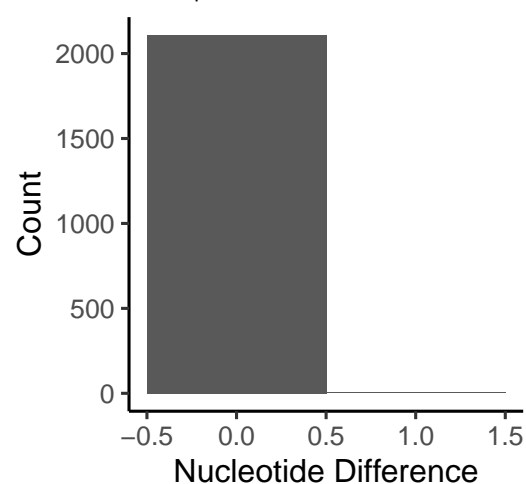
TRBV7–1*ap01_G291C_

211 sequences assigned
211 (100%) exact matches, in which:
211 unique CDR3
13 unique J



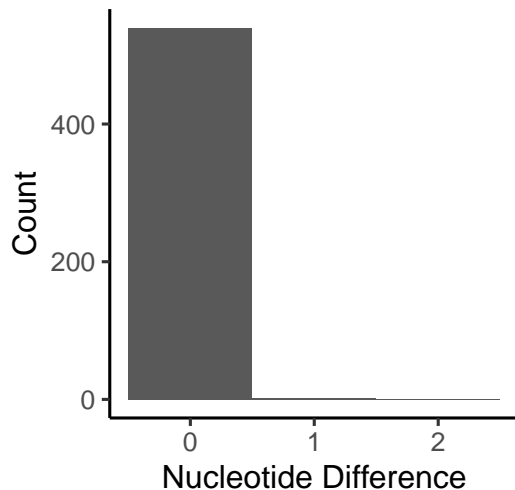
TRBV7–3*ap03

2114 sequences assigned
2109 (99.8%) exact matches, in which:
2107 unique CDR3
13 unique J



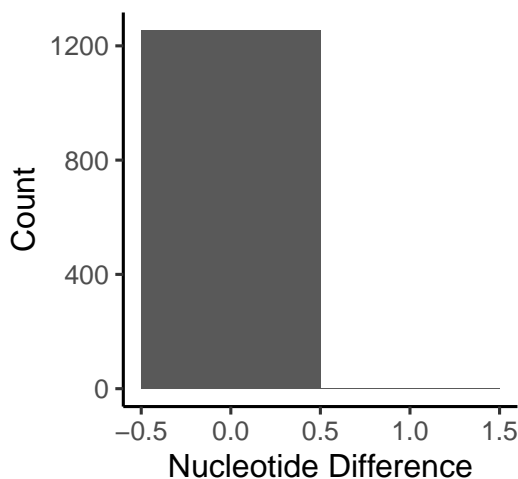
TRBV7-4*ap01

543 sequences assigned
540 (99.4%) exact matches, in which:
538 unique CDR3
14 unique J



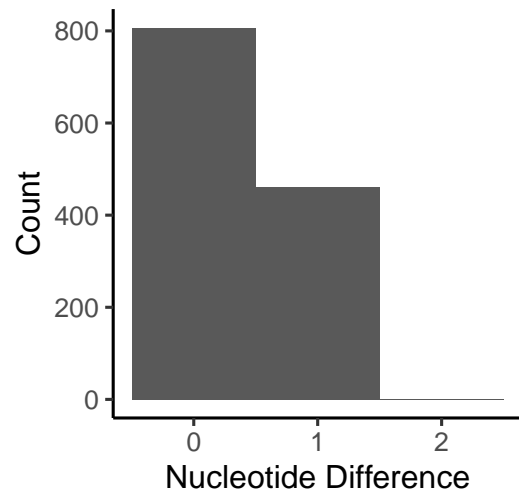
TRBV7-7*ap01_C315T

1256 sequences assigned
1254 (99.8%) exact matches, in which:
1254 unique CDR3
13 unique J



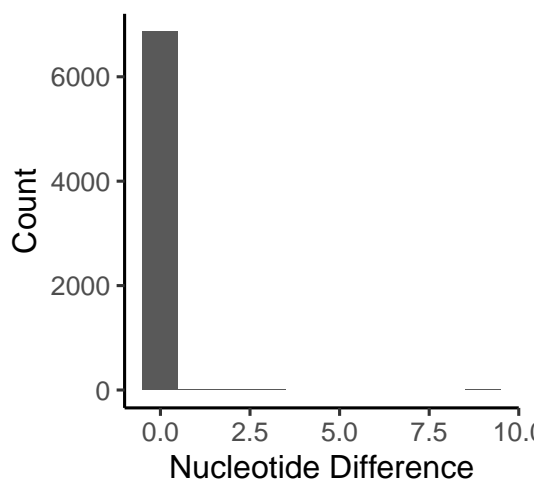
TRBV7-8*ap03

1269 sequences assigned
807 (63.6%) exact matches, in which:
807 unique CDR3
14 unique J



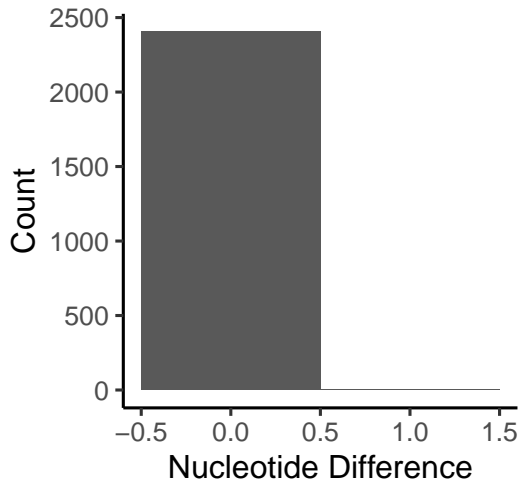
TRBV7-6*ap01

6872 sequences assigned
6863 (99.9%) exact matches, in which:
6860 unique CDR3
14 unique J



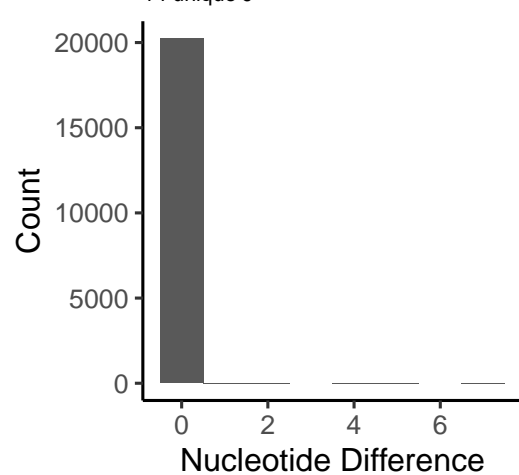
TRBV7-8*ap01

2411 sequences assigned
2405 (99.8%) exact matches, in which:
2405 unique CDR3
14 unique J



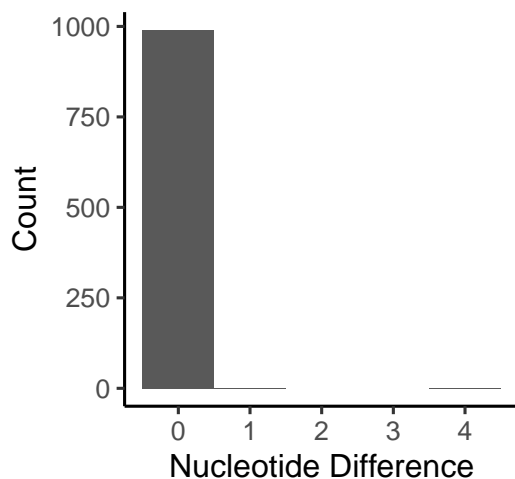
TRBV7-9*ap01

20263 sequences assigned
20240 (99.9%) exact matches, in which:
20232 unique CDR3
14 unique J



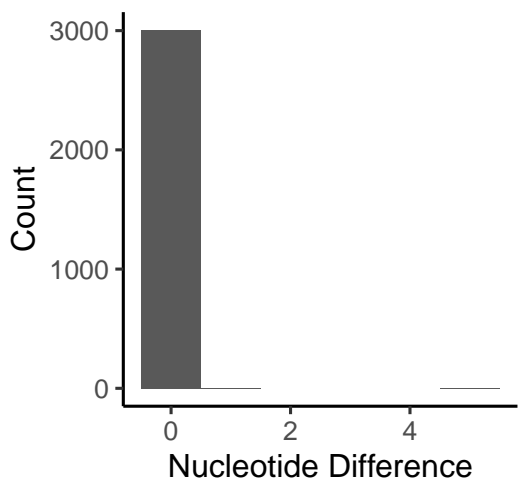
TRBV7-7*ap01

992 sequences assigned
990 (99.8%) exact matches, in which:
990 unique CDR3
13 unique J



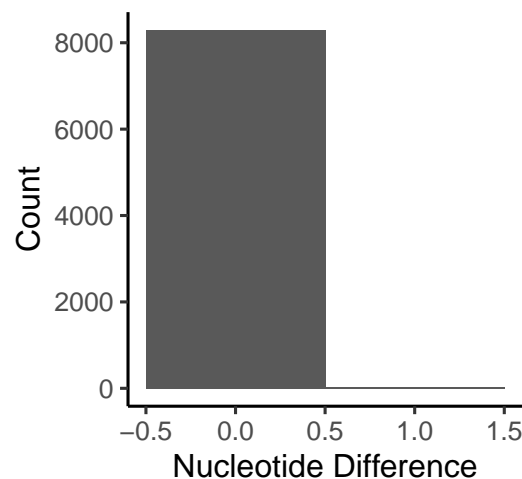
TRBV7-8*ap02

3010 sequences assigned
3005 (99.8%) exact matches, in which:
3004 unique CDR3
13 unique J



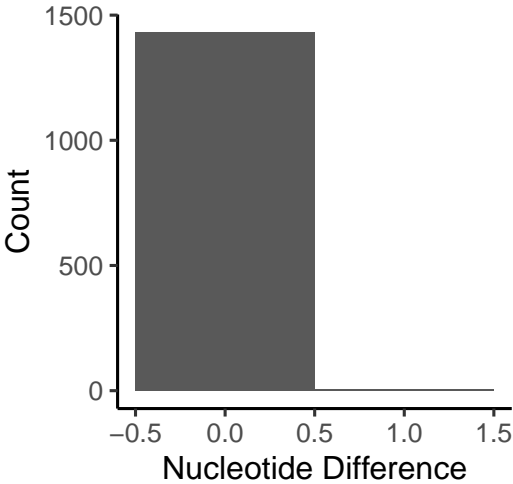
TRBV29-1*ap01

8325 sequences assigned
8294 (99.6%) exact matches, in which:
8283 unique CDR3
14 unique J

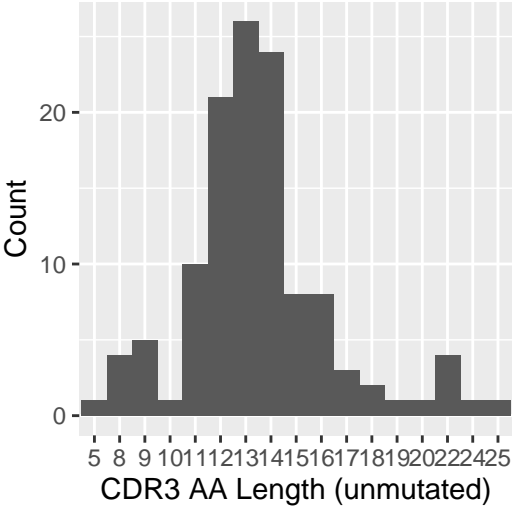


TRBV29-1*ap02

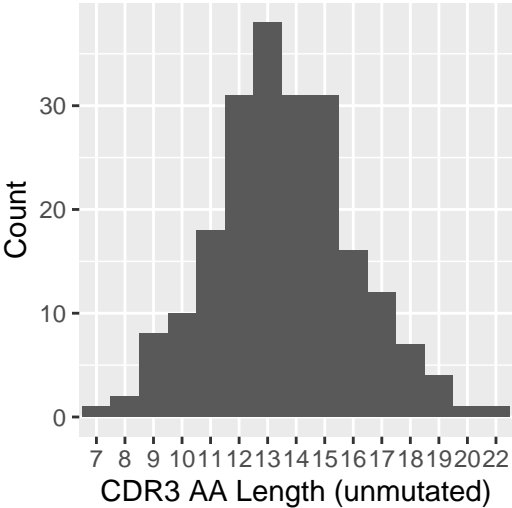
1436 sequences assigned
1431 (99.7%) exact matches, in which:
1428 unique CDR3
14 unique J



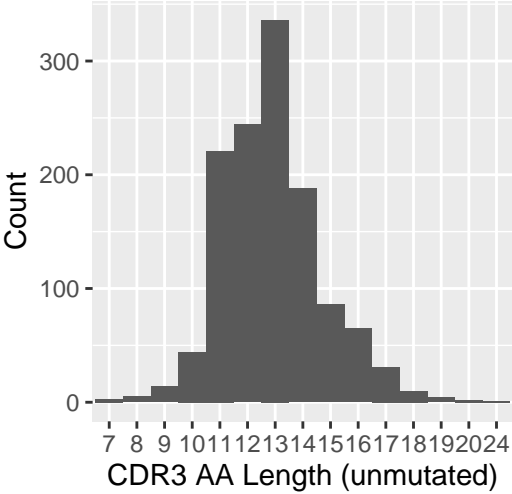
TRBV7-1*ap01_G291C_T296C



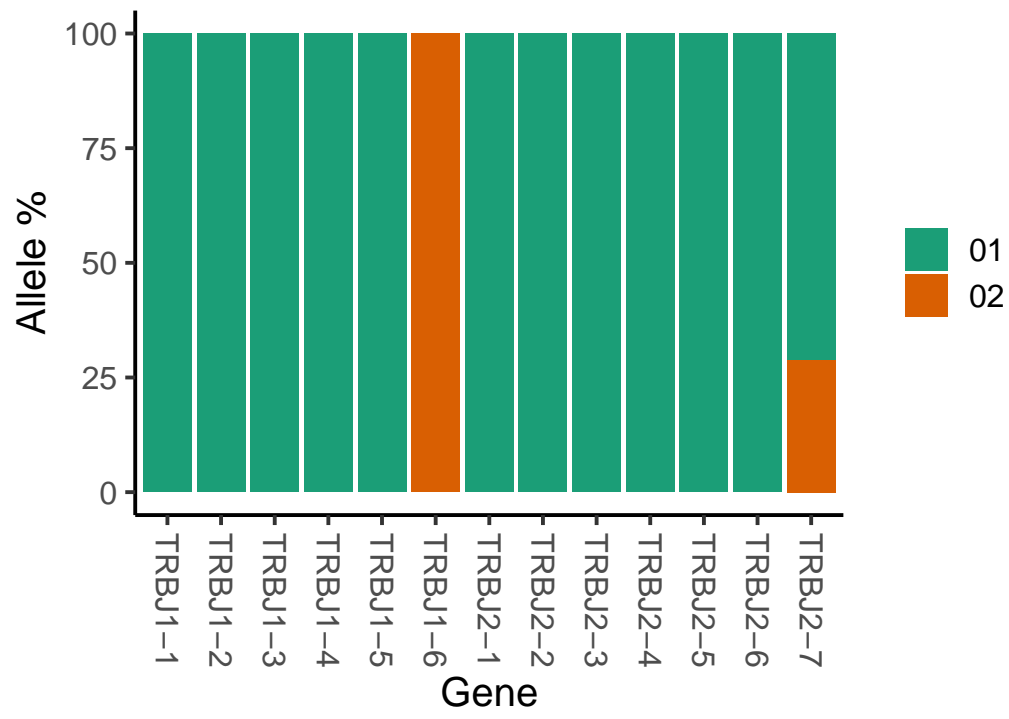
TRBV7-1*ap01_G291C_T296C_C314T



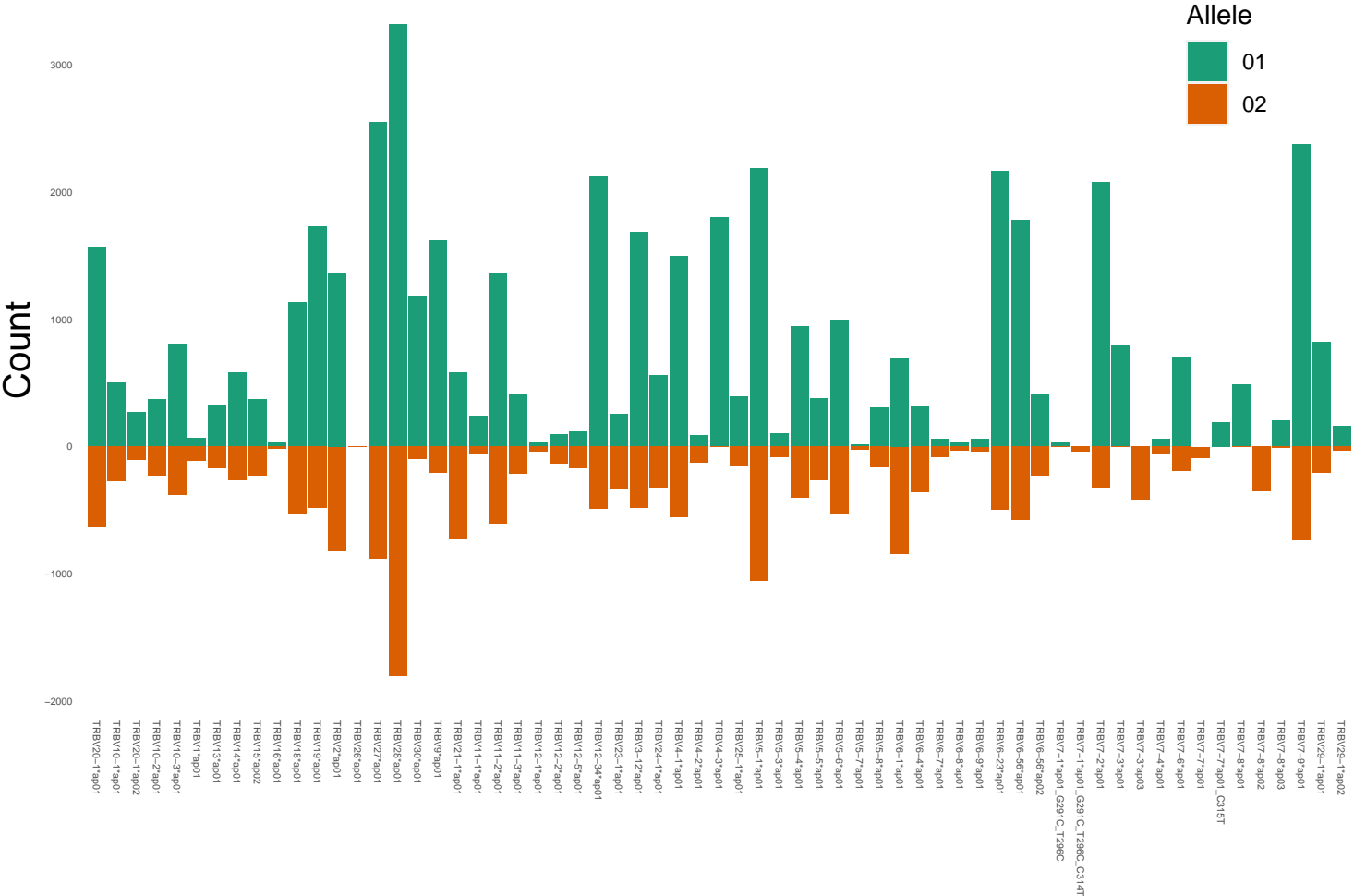
TRBV7-7*ap01_C315T



Allele Usage



Sequence Count by TRBJ2–7 allele usage



[illegible]