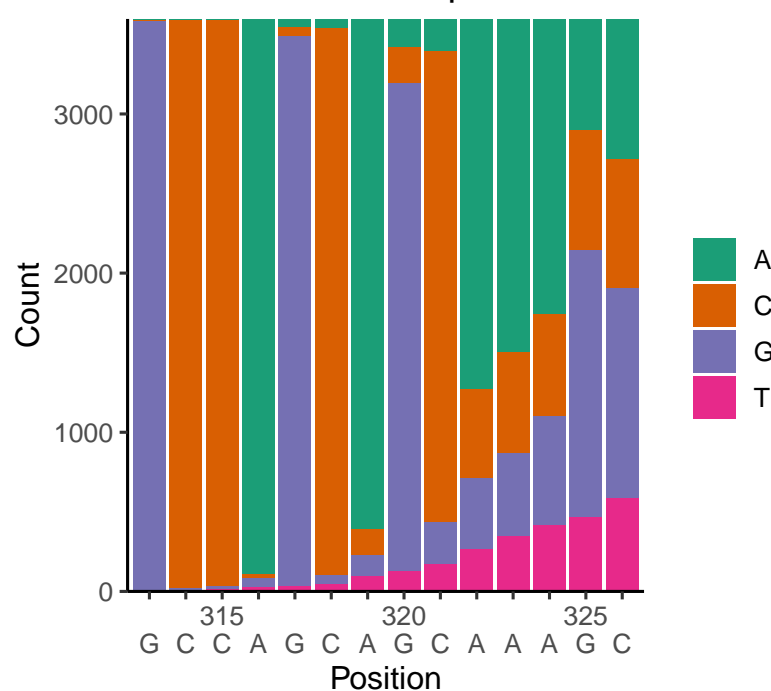
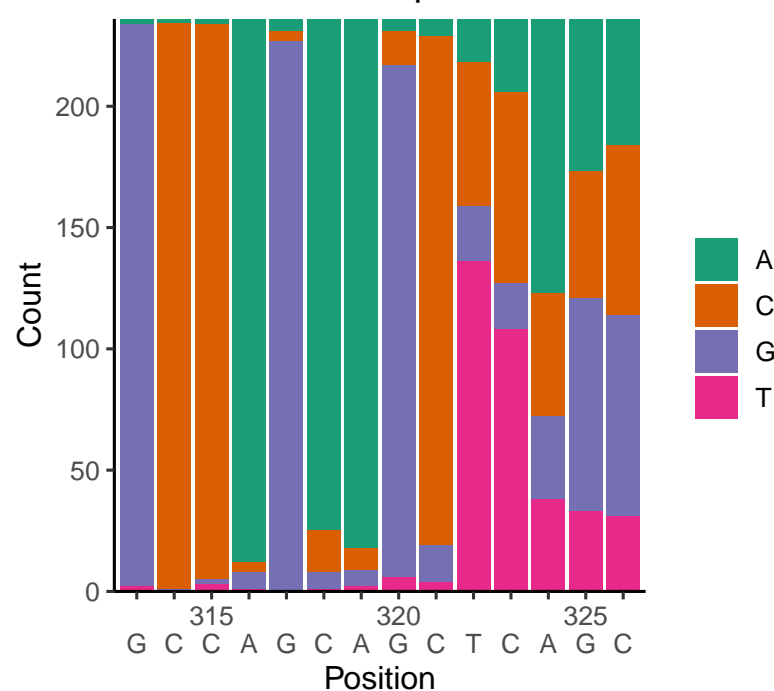


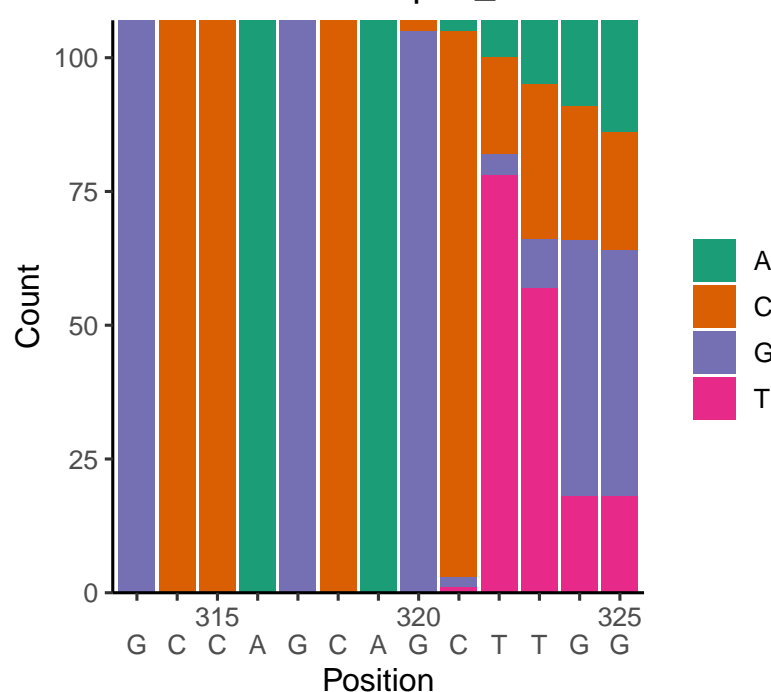
Gene TRBV21-1*ap01_T307C



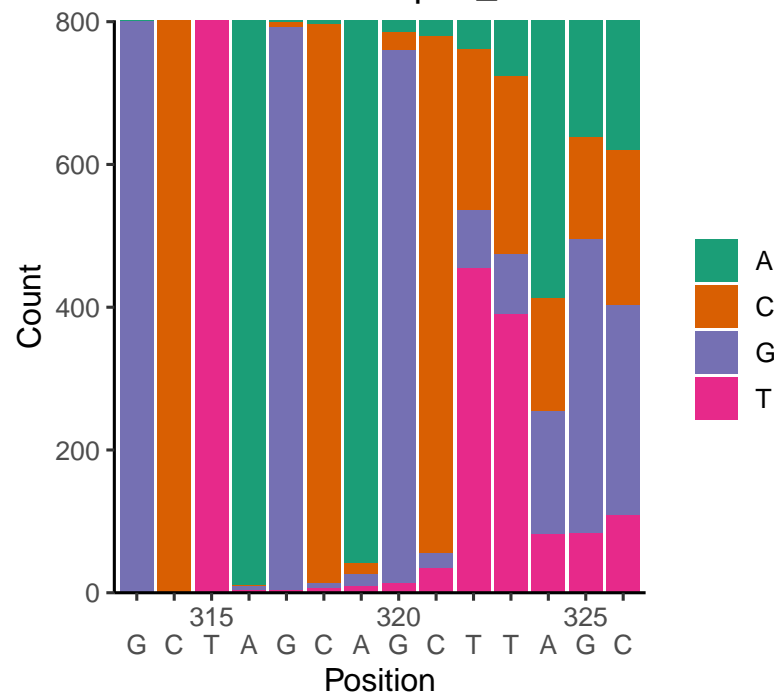
Gene TRBV7-1*ap01_G291C_T296C



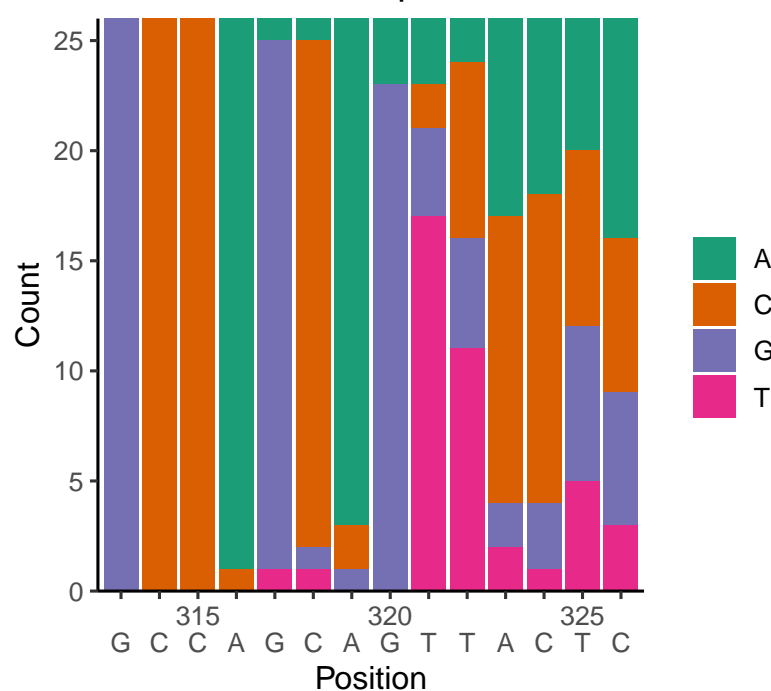
Gene TRBV5-7*ap01_G290A



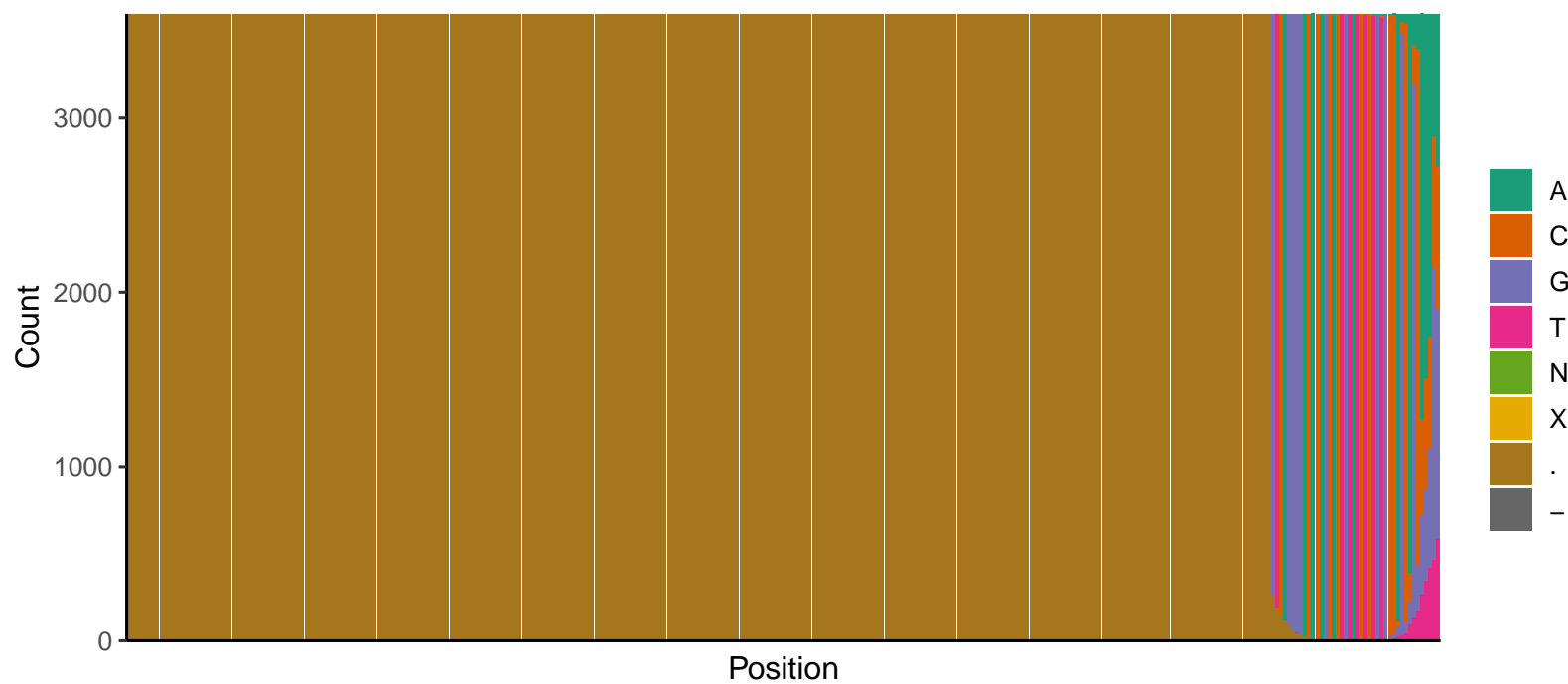
Gene TRBV7-7*ap01_C315T



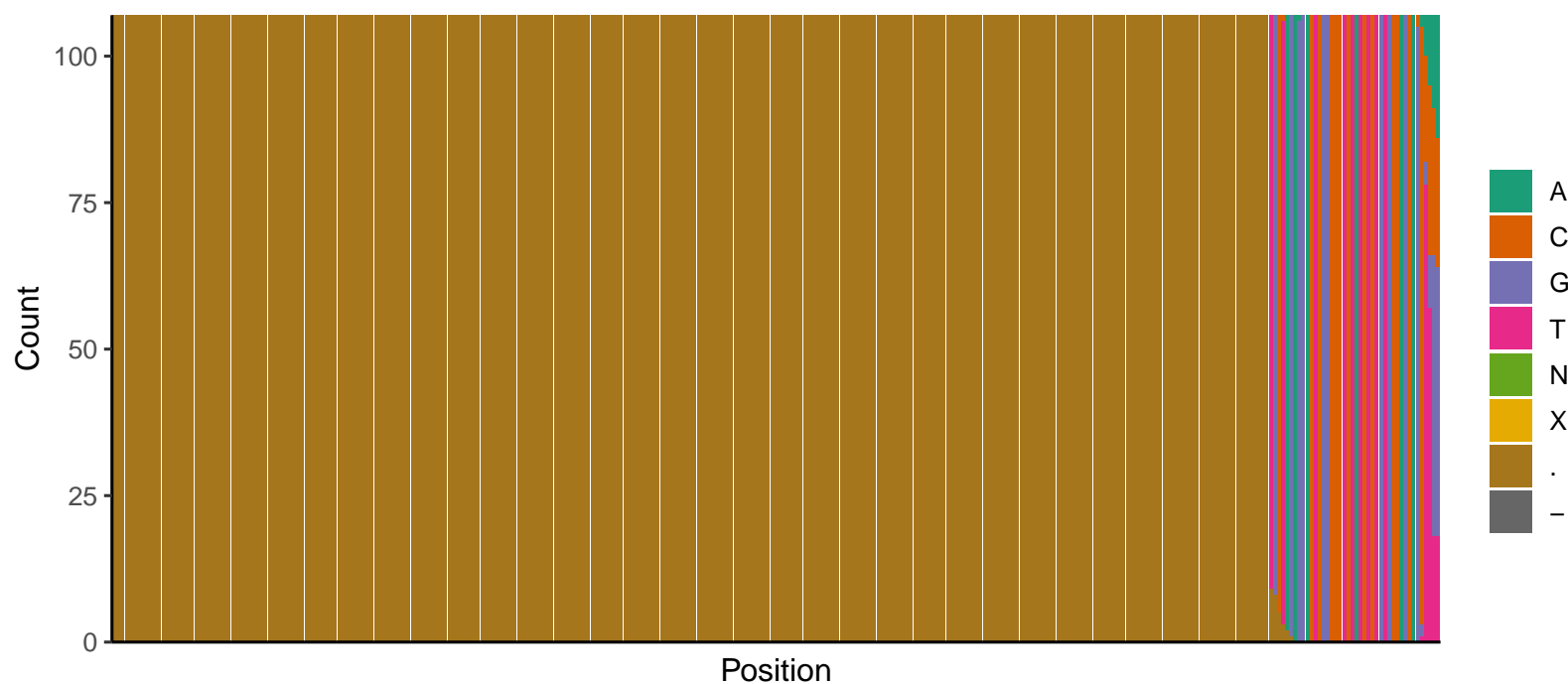
Gene TRBV6-8*ap01_A293G



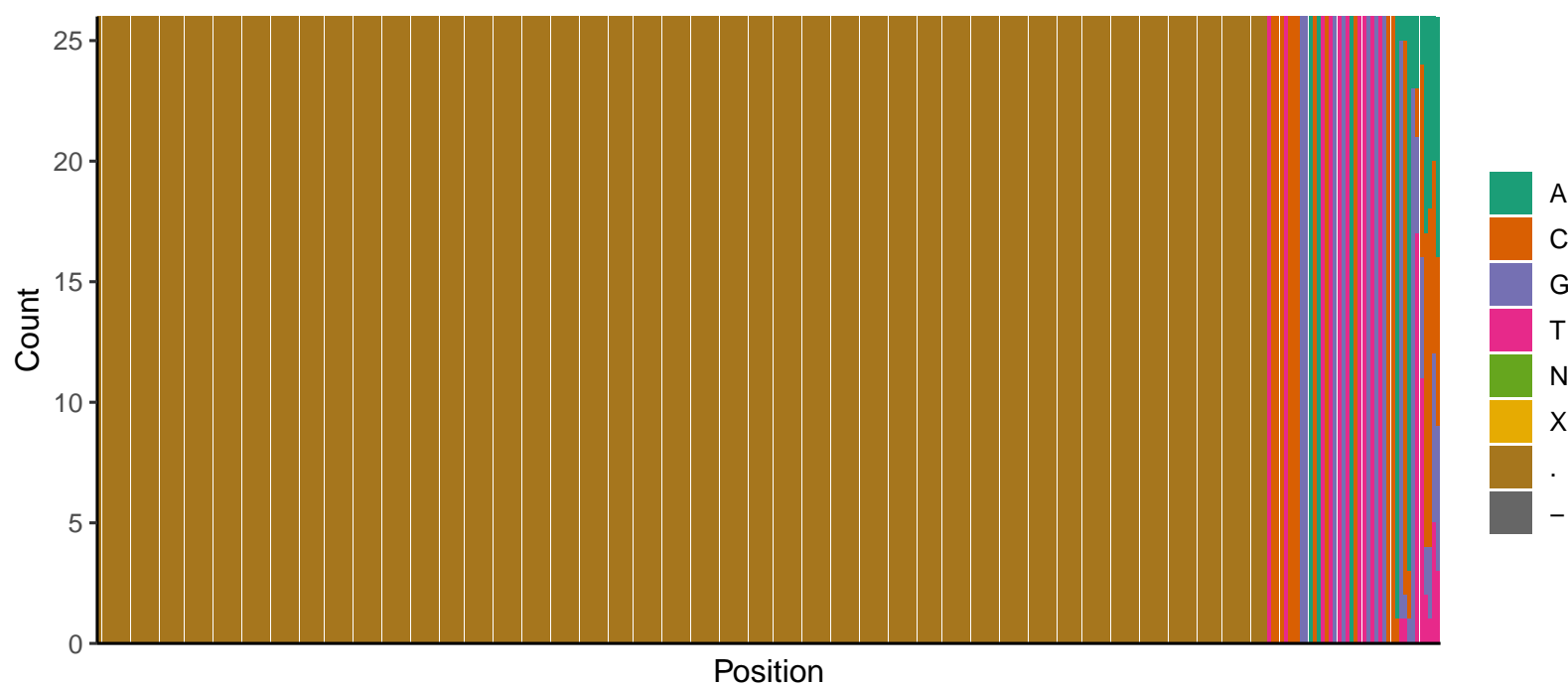
Gene TRBV21-1*ap01_T307C



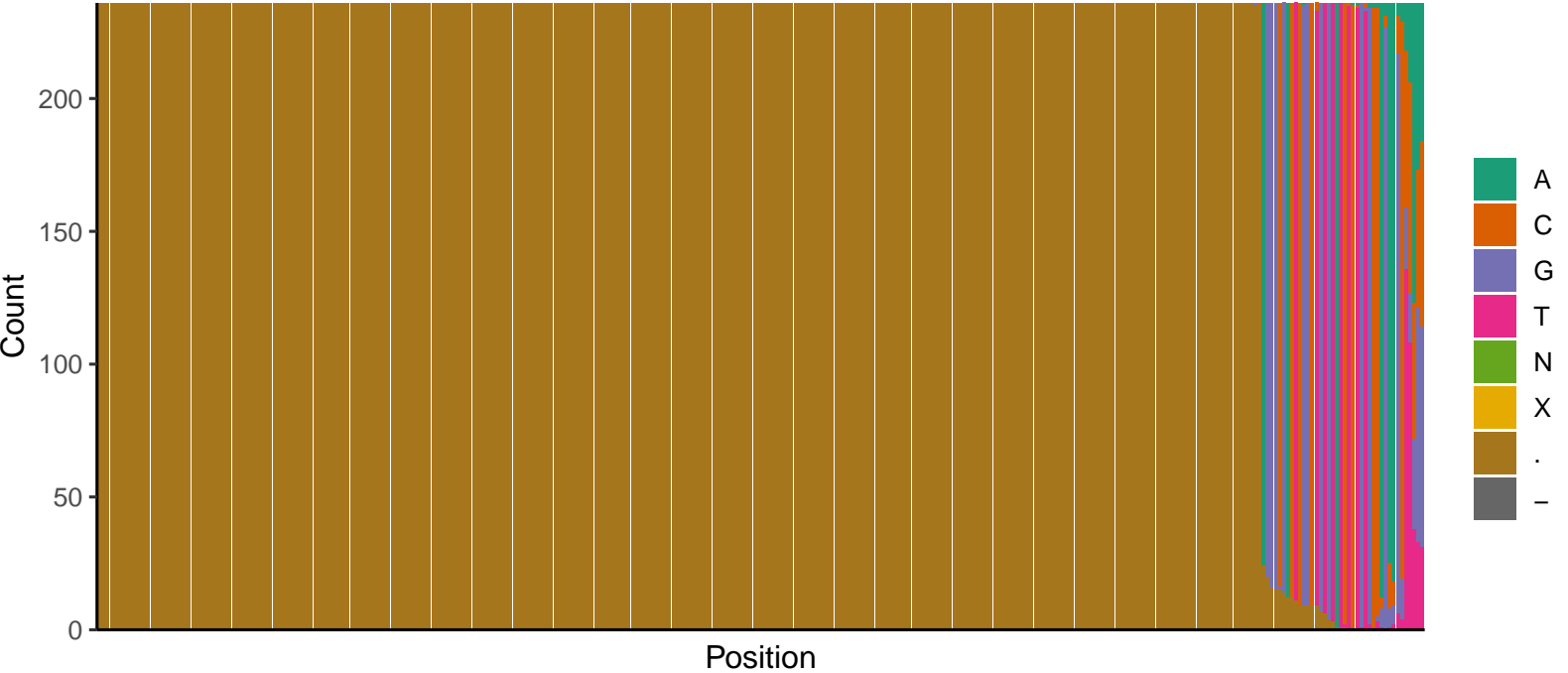
Gene TRBV5-7*ap01_G290A



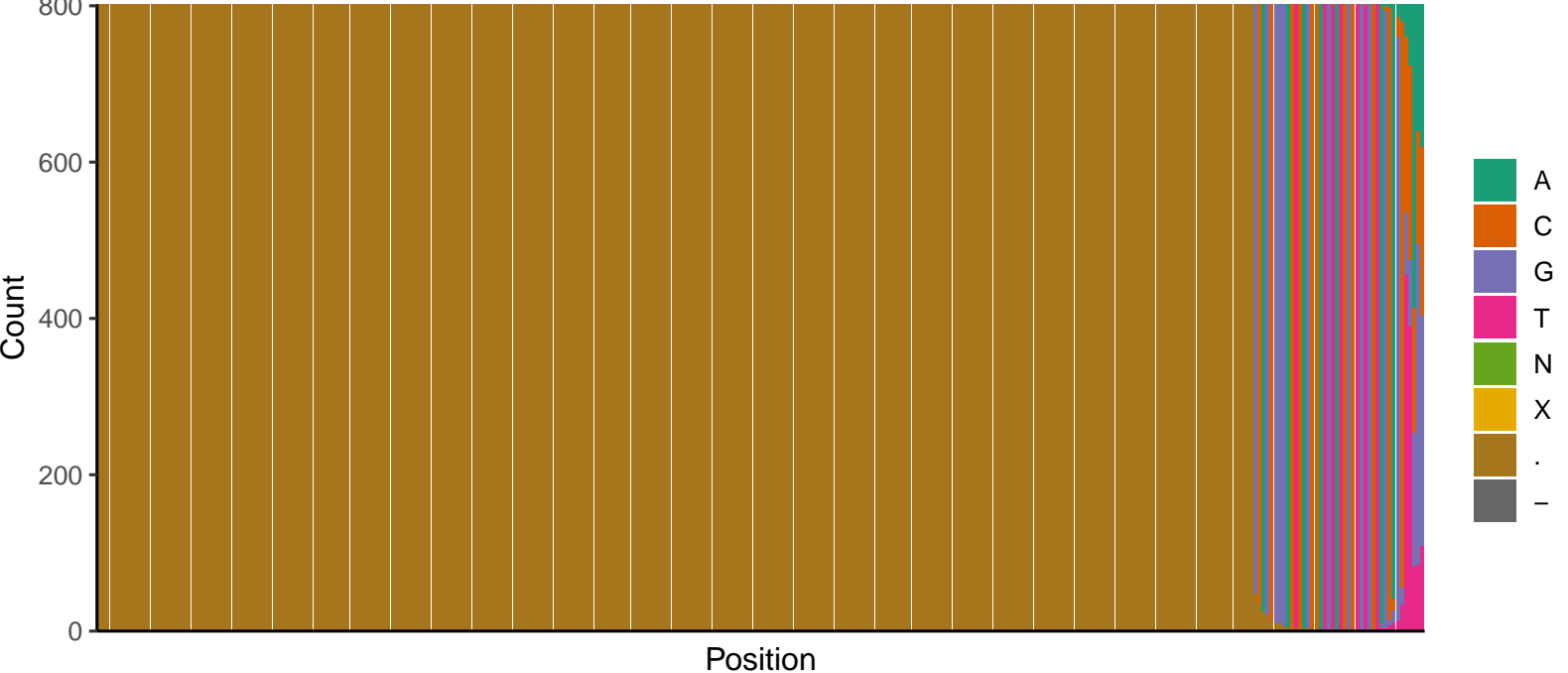
Gene TRBV6-8*ap01_A293G



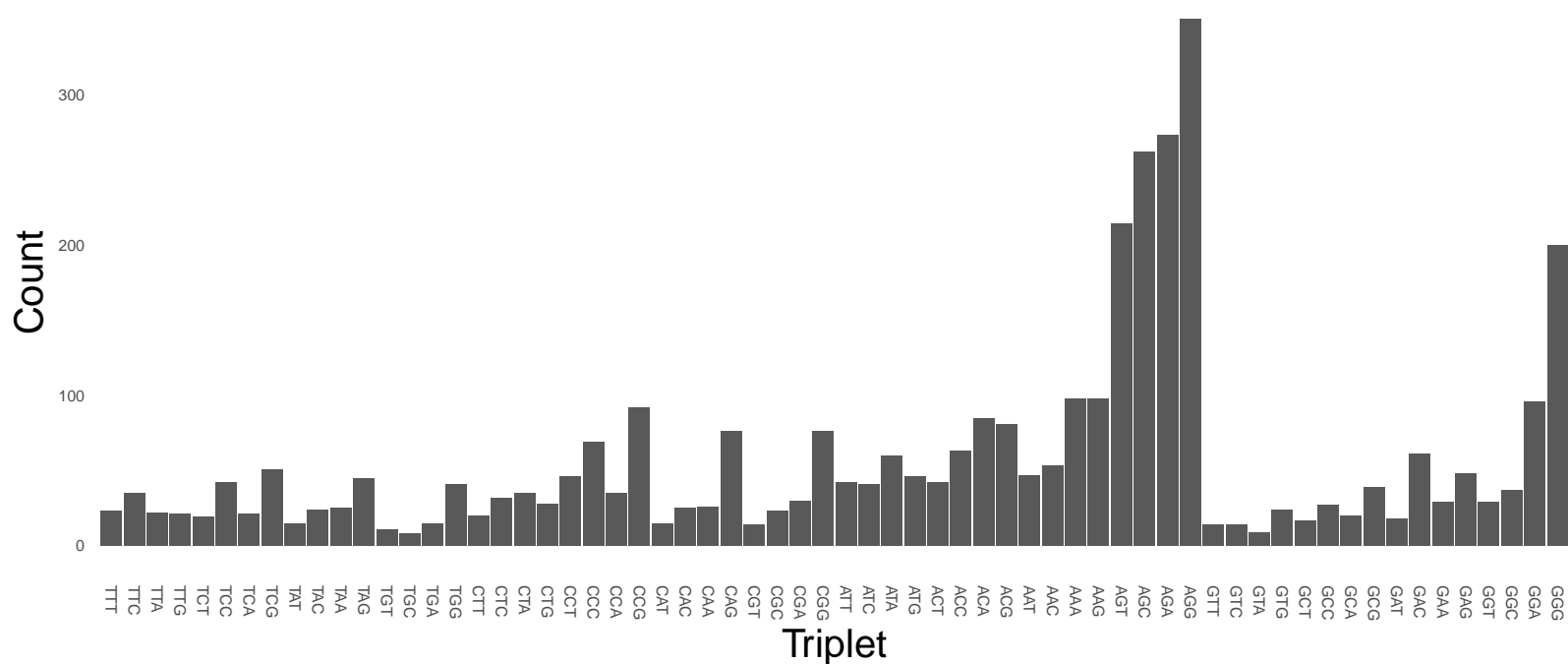
Gene TRBV7-1*ap01_G291C_T296C



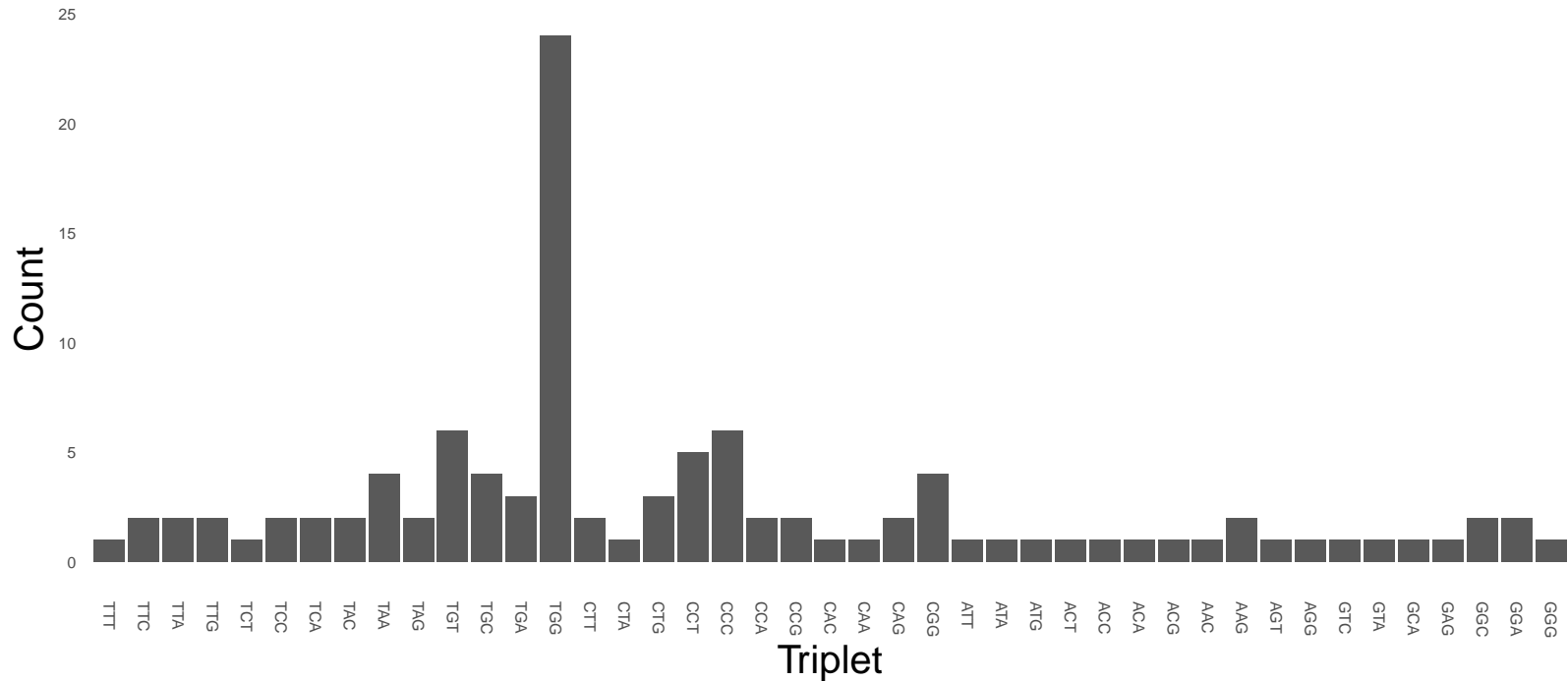
Gene TRBV7-7*ap01_C315T



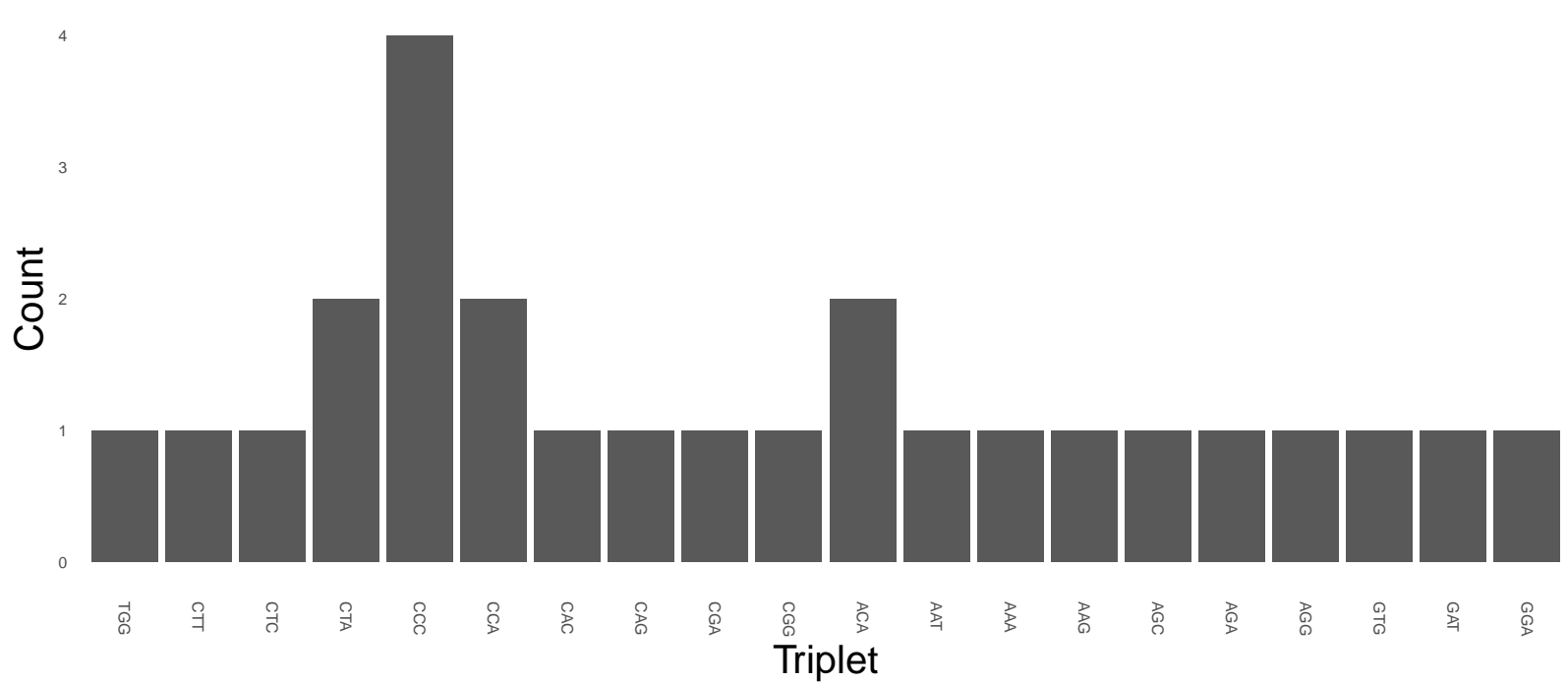
TRBV21–1*ap01_T307C– Final 3 nucleotides as a triplet



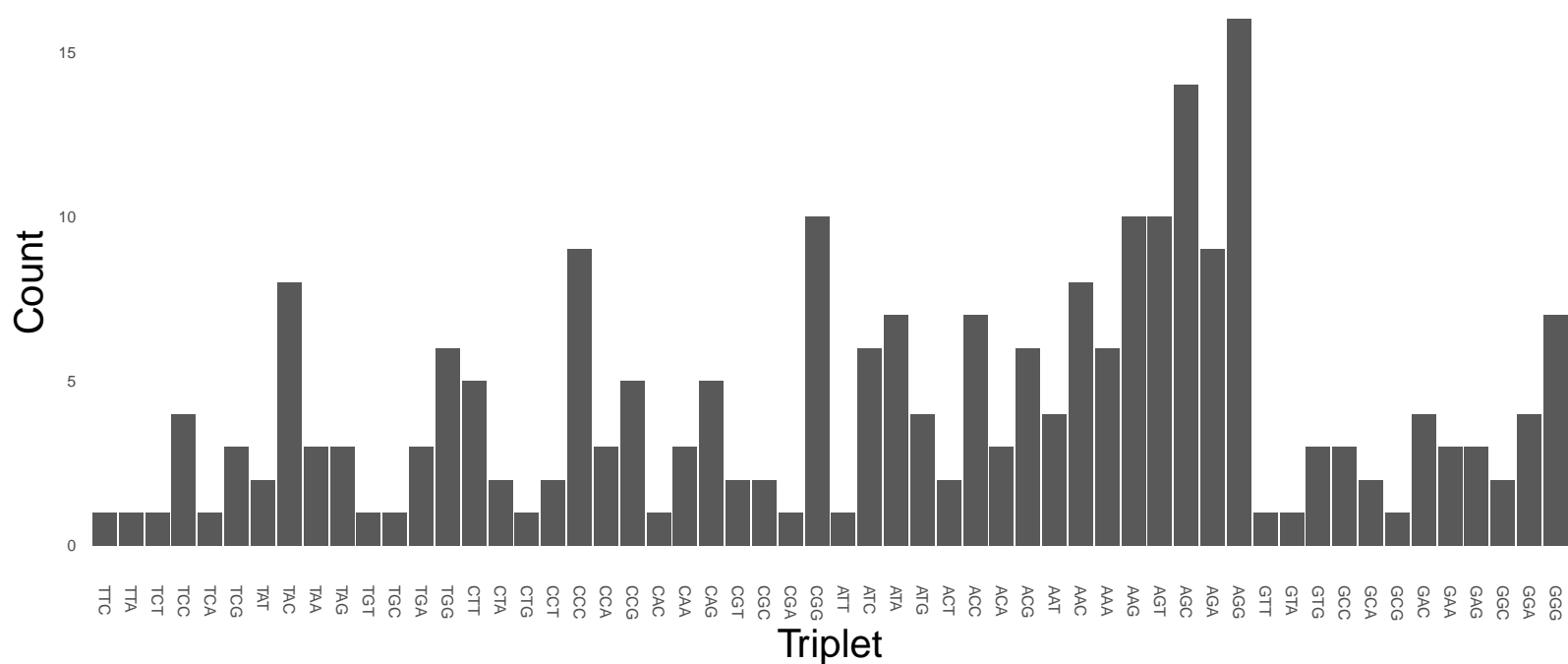
TRBV5–7*ap01_G290A– Final 3 nucleotides as a triplet



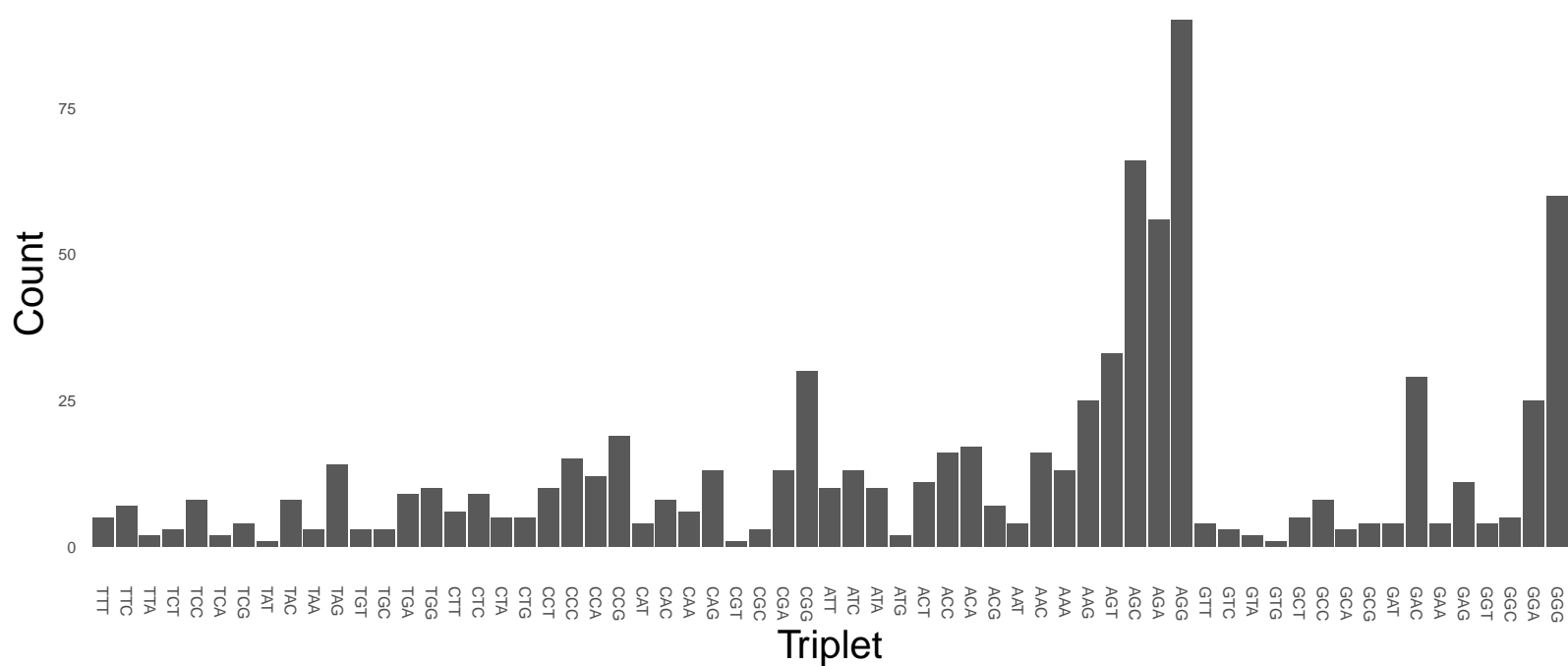
TRBV6–8*ap01_A293G– Final 3 nucleotides as a triplet



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

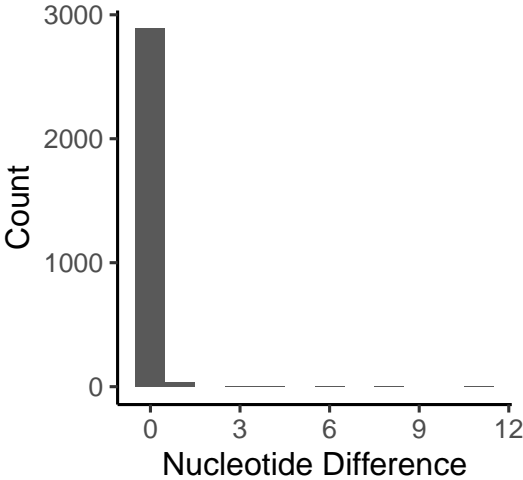


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



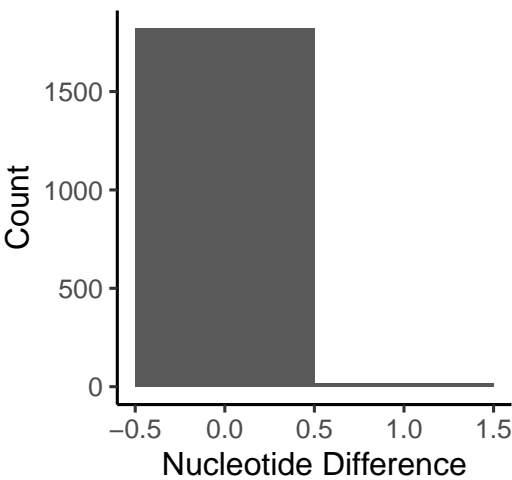
TRBV10-1*ap01

2934 sequences assigned
2890 (98.5%) exact matches, in which:
2838 unique CDR3
14 unique J



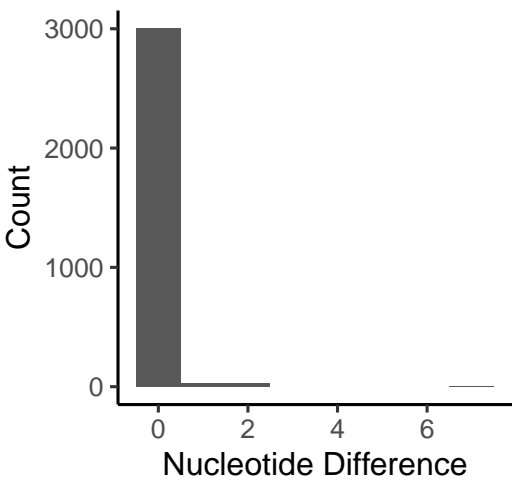
TRBV10-2*ap01

1837 sequences assigned
1821 (99.1%) exact matches, in which:
1794 unique CDR3
14 unique J



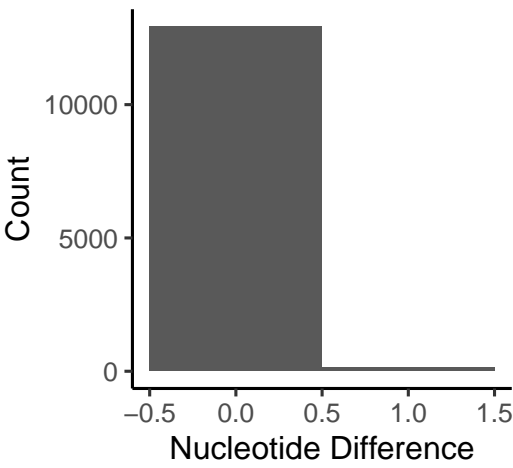
TRBV13*ap01

3060 sequences assigned
3003 (98.1%) exact matches, in which:
2931 unique CDR3
14 unique J



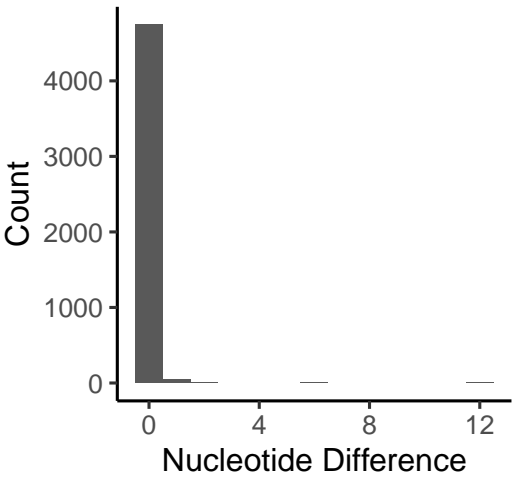
TRBV20-1*ap01

13072 sequences assigned
12932 (98.9%) exact matches, in which:
12799 unique CDR3
14 unique J



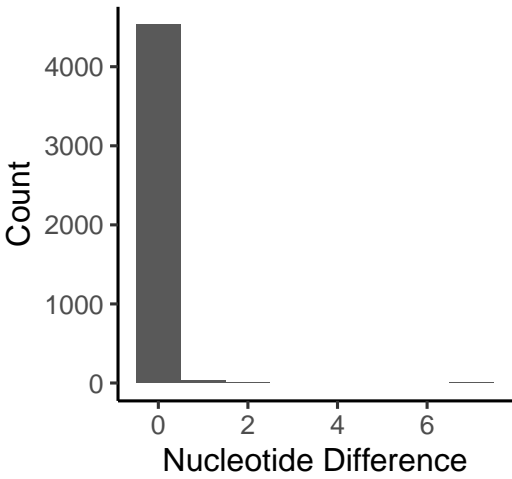
TRBV10-3*ap01

4794 sequences assigned
4743 (98.9%) exact matches, in which:
4672 unique CDR3
14 unique J



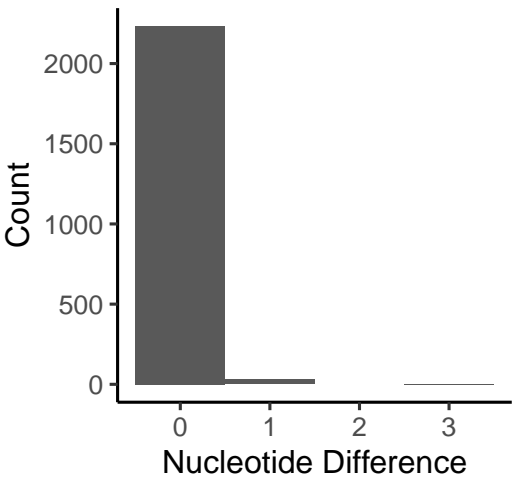
TRBV14*ap01

4563 sequences assigned
4531 (99.3%) exact matches, in which:
4479 unique CDR3
14 unique J



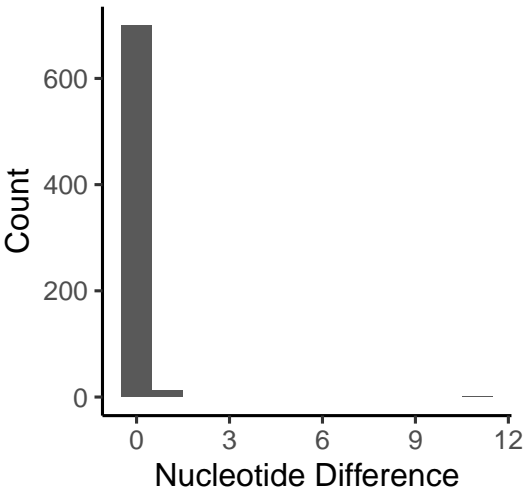
TRBV20-1*ap02

2265 sequences assigned
2234 (98.6%) exact matches, in which:
2212 unique CDR3
14 unique J



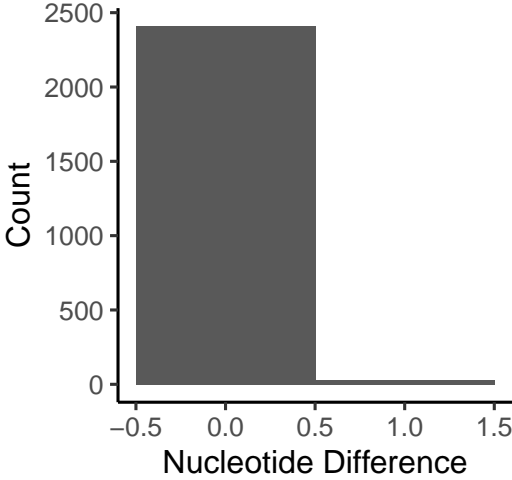
TRBV1*ap01

713 sequences assigned
700 (98.2%) exact matches, in which:
686 unique CDR3
14 unique J



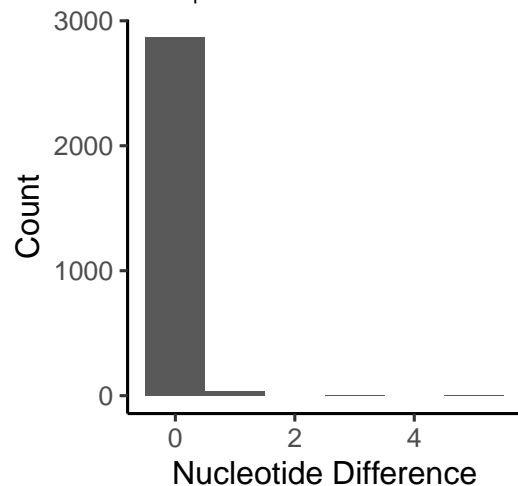
TRBV15*ap01

2440 sequences assigned
2410 (98.8%) exact matches, in which:
2380 unique CDR3
13 unique J



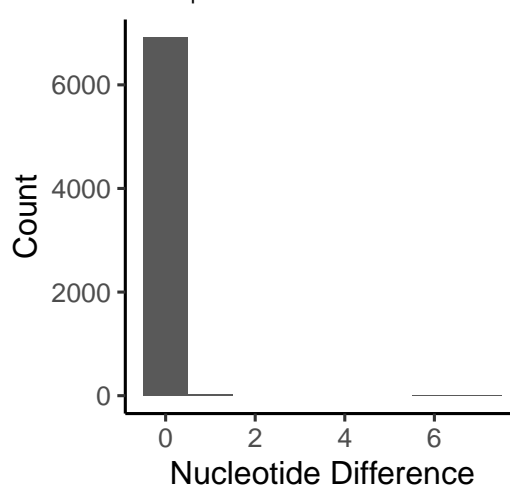
TRBV15*ap02

2902 sequences assigned
2867 (98.8%) exact matches, in which:
2814 unique CDR3
13 unique J



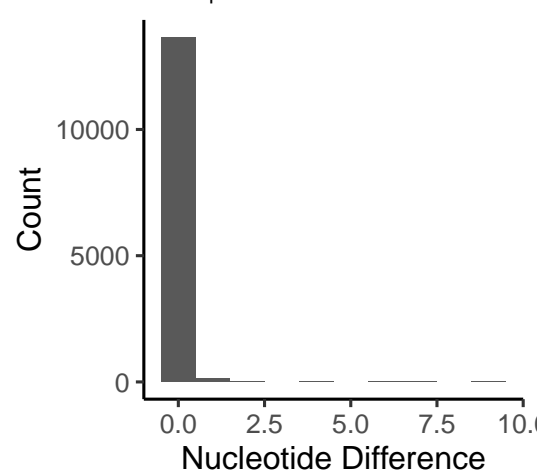
TRBV18*ap01

6946 sequences assigned
6916 (99.6%) exact matches, in which:
6873 unique CDR3
14 unique J



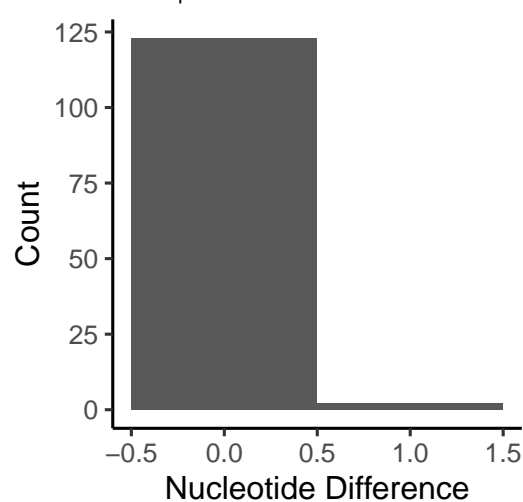
TRBV27*ap01

13813 sequences assigned
13657 (98.9%) exact matches, in which:
13417 unique CDR3
14 unique J



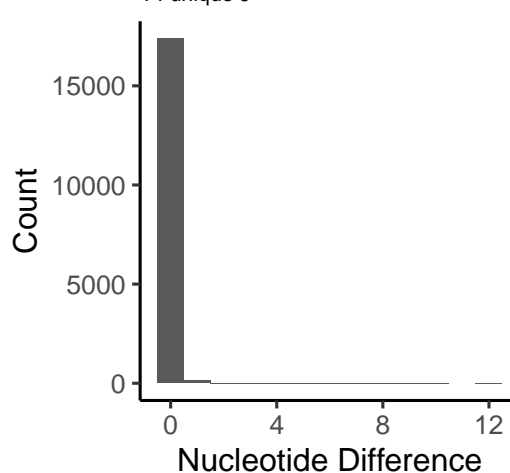
TRBV16*ap01

125 sequences assigned
123 (98.4%) exact matches, in which:
122 unique CDR3
12 unique J



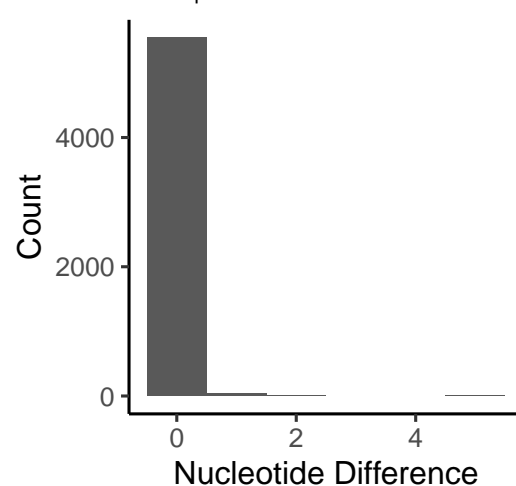
TRBV19*ap01

17541 sequences assigned
17389 (99.1%) exact matches, in which:
17285 unique CDR3
14 unique J



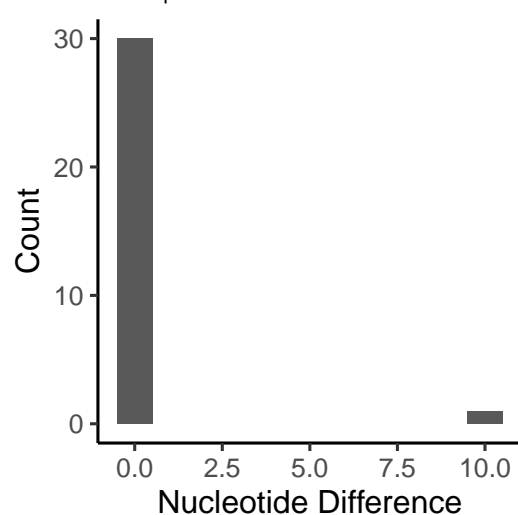
TRBV28*ap01

5581 sequences assigned
5544 (99.3%) exact matches, in which:
5475 unique CDR3
14 unique J



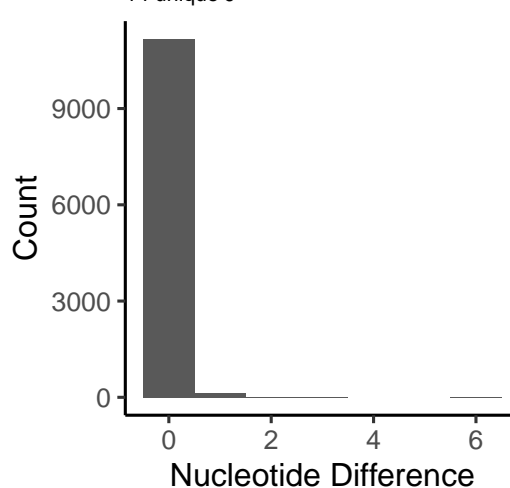
TRBV17*ap01

31 sequences assigned
30 (96.8%) exact matches, in which:
30 unique CDR3
10 unique J



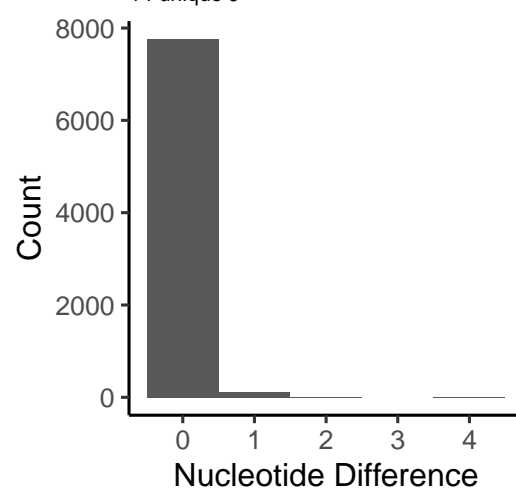
TRBV2*ap01

11310 sequences assigned
11166 (98.7%) exact matches, in which:
10987 unique CDR3
14 unique J



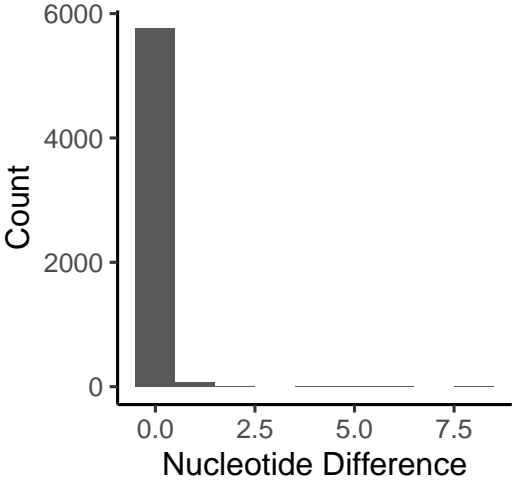
TRBV30*ap01

7888 sequences assigned
7762 (98.4%) exact matches, in which:
7599 unique CDR3
14 unique J



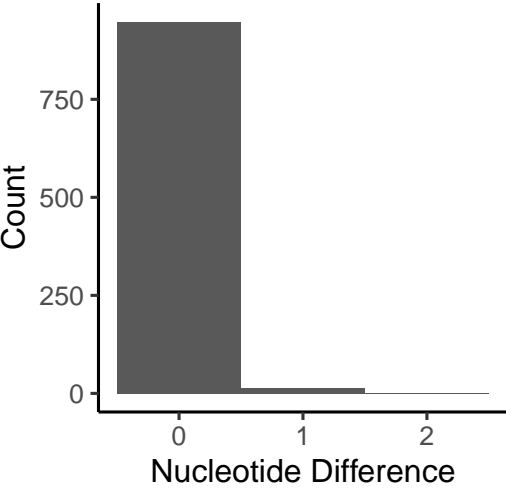
TRBV30*ap02

5854 sequences assigned
5762 (98.4%) exact matches, in which:
5726 unique CDR3
14 unique J



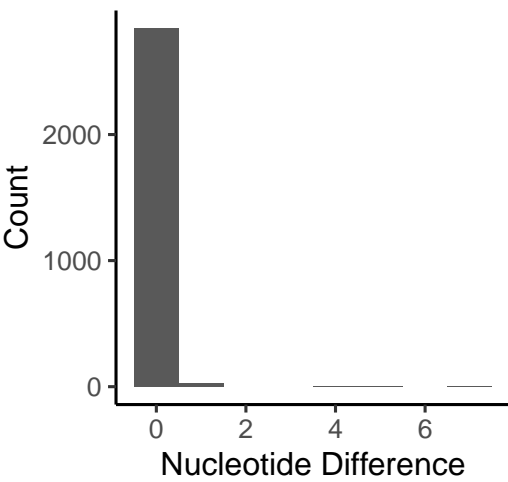
TRBV11-1*ap01

963 sequences assigned
948 (98.4%) exact matches, in which:
919 unique CDR3
14 unique J



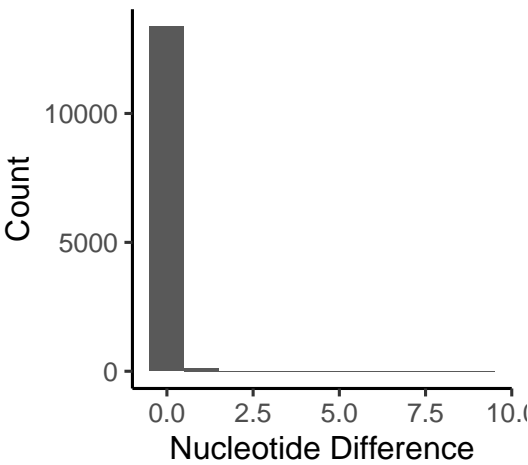
TRBV11-3*ap01

2872 sequences assigned
2842 (99%) exact matches, in which:
2802 unique CDR3
14 unique J



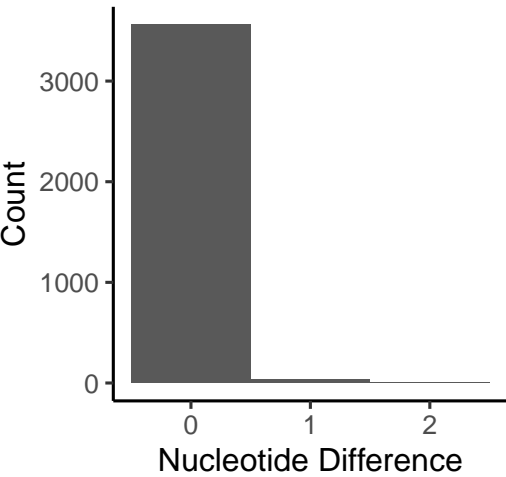
TRBV9*ap01

13520 sequences assigned
13375 (98.9%) exact matches, in which:
13254 unique CDR3
14 unique J



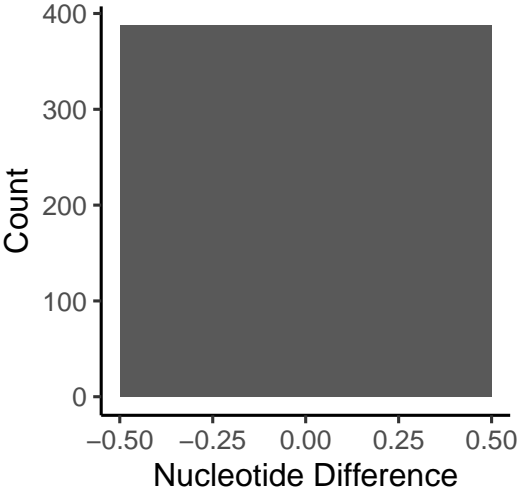
TRBV21-1*ap01_T307C

3597 sequences assigned
3560 (99%) exact matches, in which:
3528 unique CDR3
13 unique J



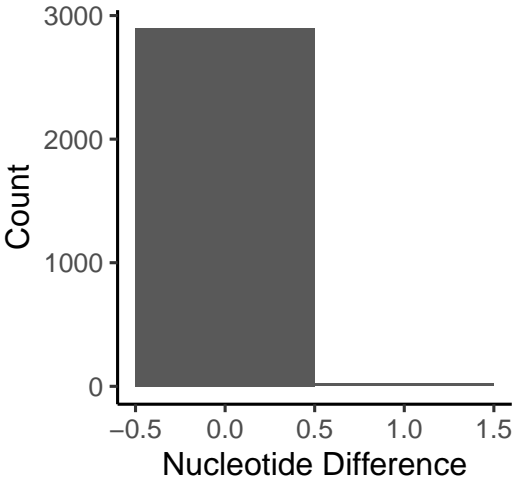
TRBV12-1*ap01

388 sequences assigned
388 (100%) exact matches, in which:
385 unique CDR3
14 unique J



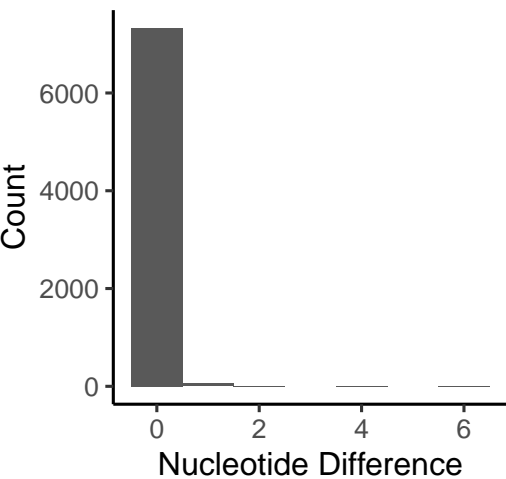
TRBV21-1*ap01

2922 sequences assigned
2899 (99.2%) exact matches, in which:
2865 unique CDR3
13 unique J



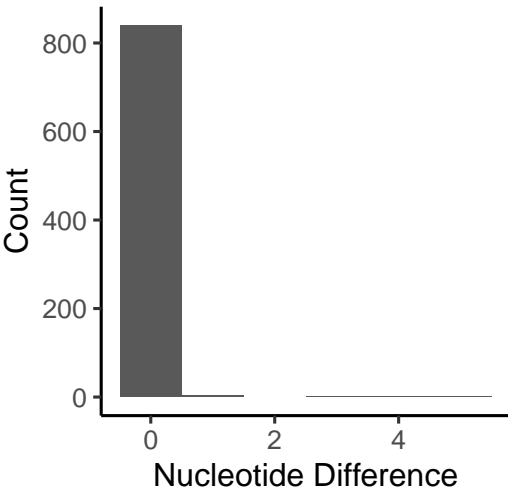
TRBV11-2*ap01

7391 sequences assigned
7328 (99.1%) exact matches, in which:
7206 unique CDR3
14 unique J



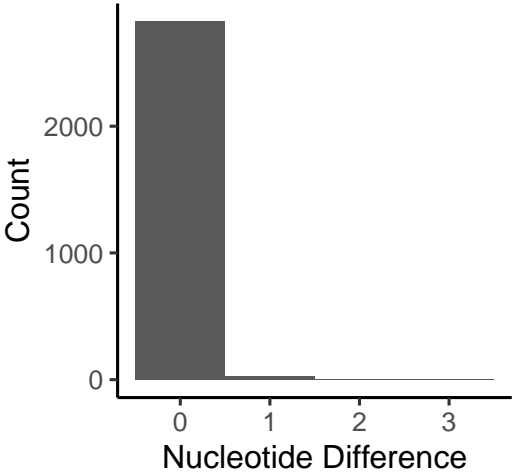
TRBV12-2*ap01

847 sequences assigned
840 (99.2%) exact matches, in which:
832 unique CDR3
14 unique J



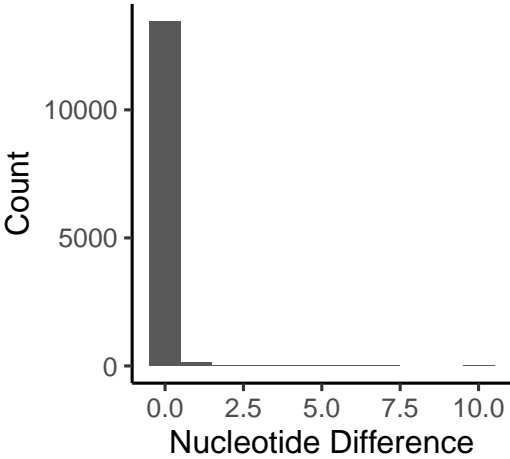
TRBV12-5*ap01

2858 sequences assigned
2827 (98.9%) exact matches, in which:
2790 unique CDR3
14 unique J



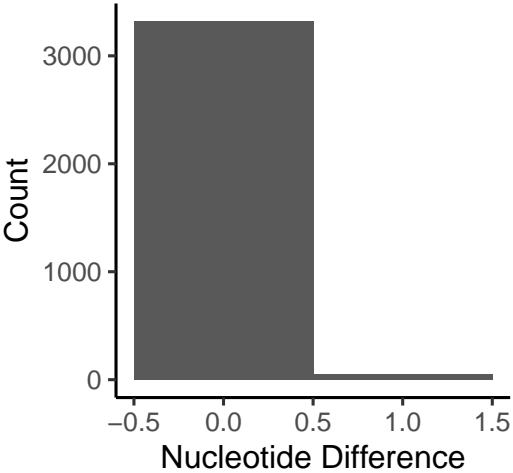
TRBV3-12*ap01

13624 sequences assigned
13464 (98.8%) exact matches, in which:
13226 unique CDR3
14 unique J



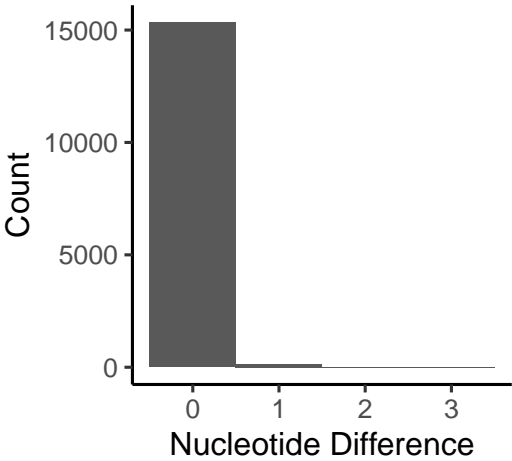
TRBV4-2*ap01

3367 sequences assigned
3319 (98.6%) exact matches, in which:
3258 unique CDR3
14 unique J



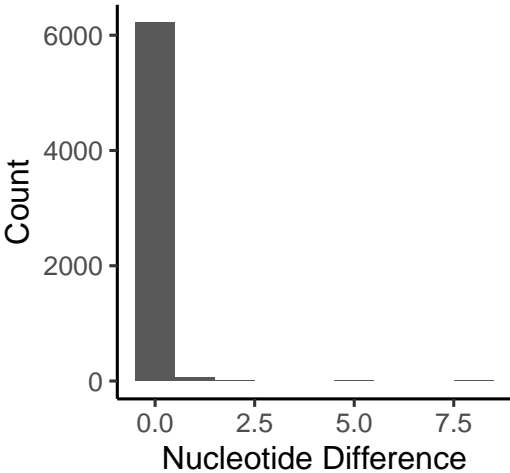
TRBV12-34*ap01

15486 sequences assigned
15337 (99%) exact matches, in which:
15182 unique CDR3
14 unique J



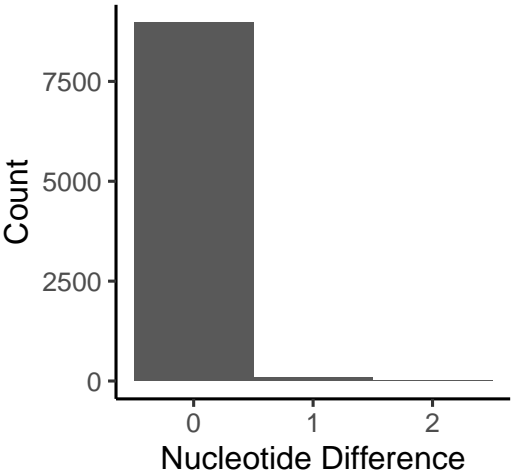
TRBV4-1*ap01

6282 sequences assigned
6217 (99%) exact matches, in which:
6118 unique CDR3
14 unique J



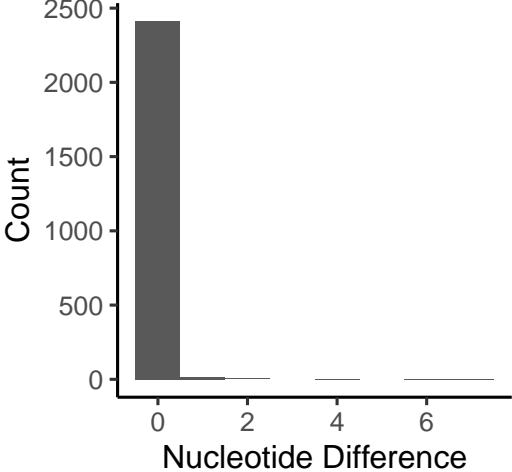
TRBV4-3*ap01

9064 sequences assigned
8969 (99%) exact matches, in which:
8837 unique CDR3
14 unique J



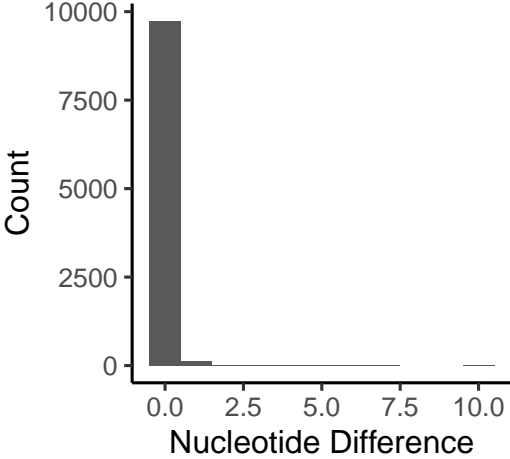
TRBV23-1*ap01

2437 sequences assigned
2413 (99%) exact matches, in which:
2370 unique CDR3
14 unique J



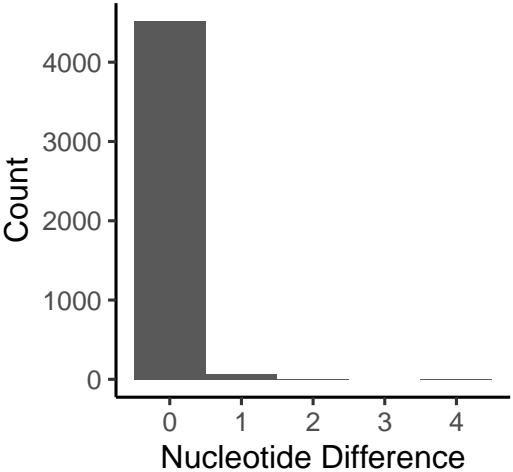
TRBV24-1*ap01

9891 sequences assigned
9742 (98.5%) exact matches, in which:
9592 unique CDR3
14 unique J



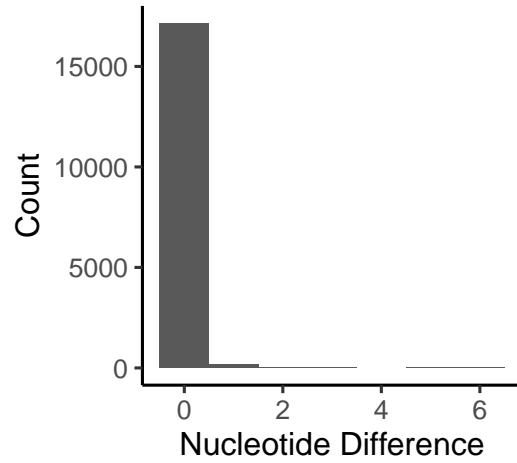
TRBV25-1*ap01

4598 sequences assigned
4519 (98.3%) exact matches, in which:
4441 unique CDR3
14 unique J



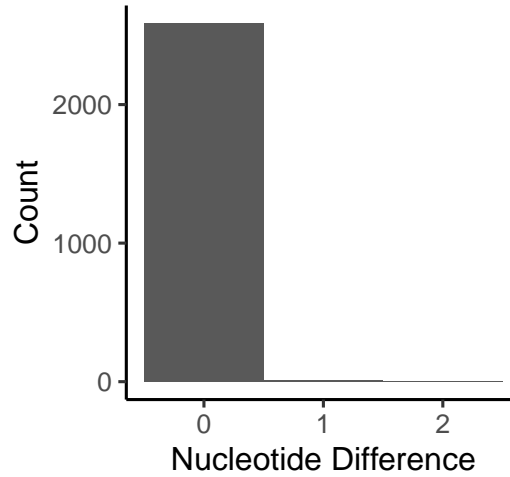
TRBV5-1*ap01

17360 sequences assigned
17154 (98.8%) exact matches, in which:
16844 unique CDR3
14 unique J



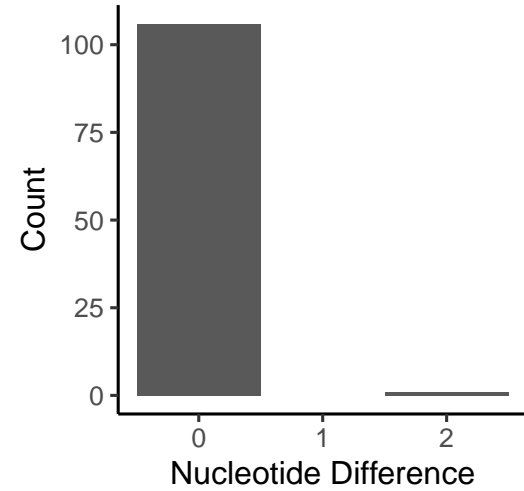
TRBV5-5*ap01

2599 sequences assigned
2586 (99.5%) exact matches, in which:
2568 unique CDR3
14 unique J



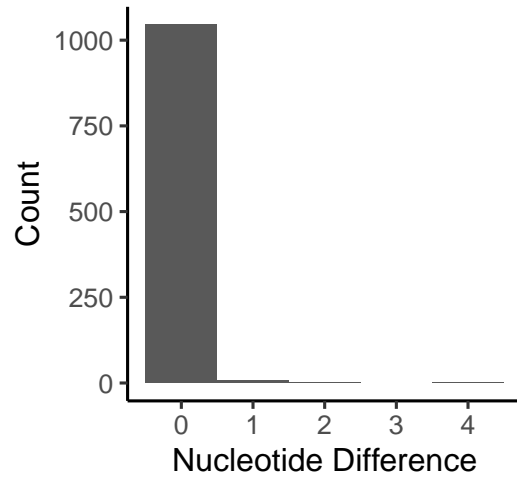
TRBV5-7*ap01_G290A

107 sequences assigned
106 (99.1%) exact matches, in which:
104 unique CDR3
12 unique J



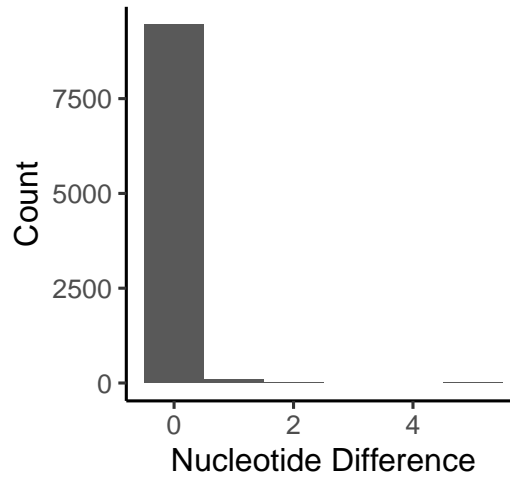
TRBV5-3*ap01

1056 sequences assigned
1045 (99%) exact matches, in which:
1033 unique CDR3
14 unique J



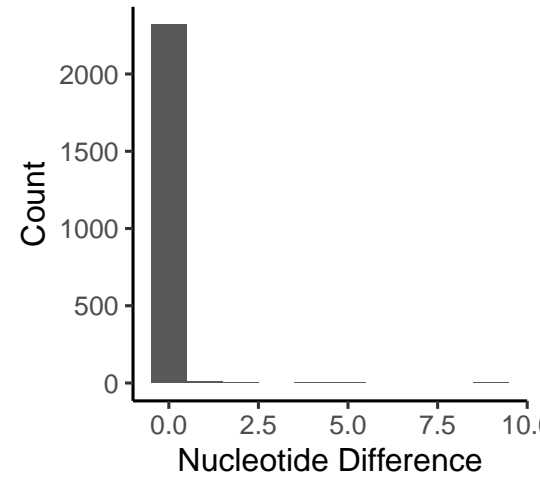
TRBV5-6*ap01

9552 sequences assigned
9449 (98.9%) exact matches, in which:
9251 unique CDR3
14 unique J



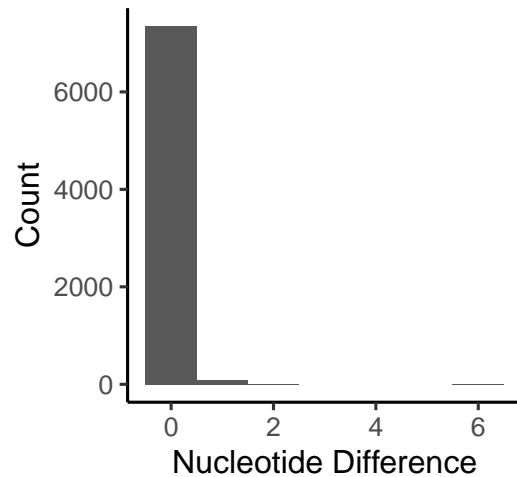
TRBV5-8*ap01

2335 sequences assigned
2319 (99.3%) exact matches, in which:
2284 unique CDR3
14 unique J



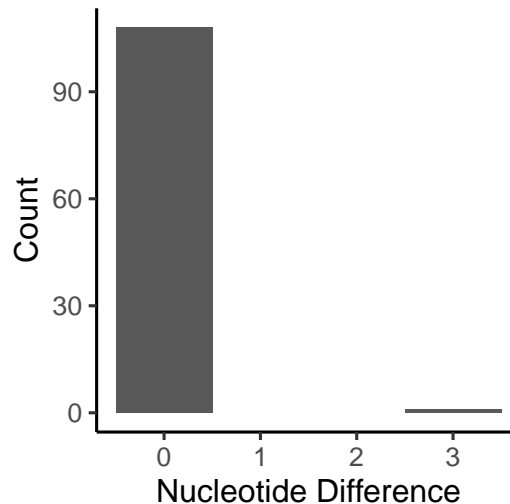
TRBV5-4*ap01

7436 sequences assigned
7351 (98.9%) exact matches, in which:
7228 unique CDR3
14 unique J



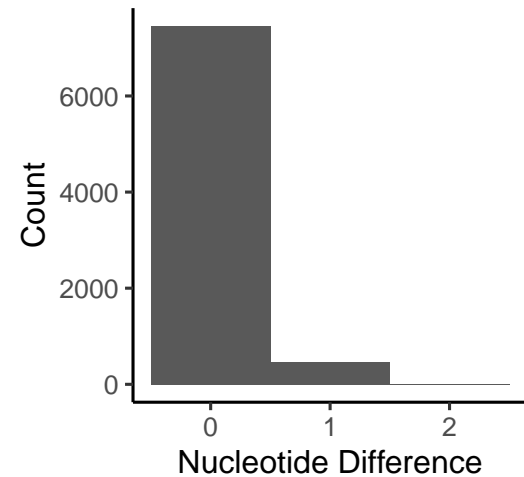
TRBV5-7*ap01

109 sequences assigned
108 (99.1%) exact matches, in which:
103 unique CDR3
13 unique J



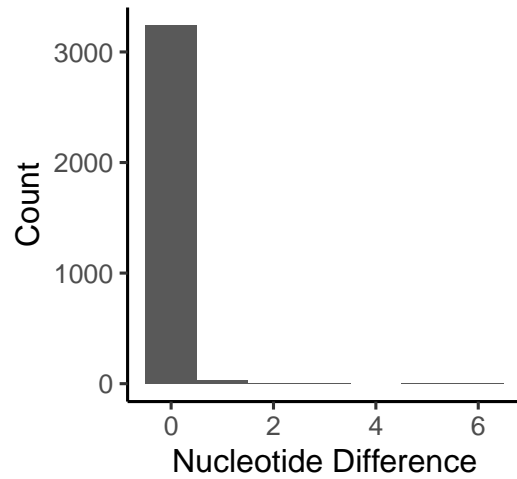
TRBV6-1*ap01

7927 sequences assigned
7455 (94%) exact matches, in which:
7321 unique CDR3
14 unique J



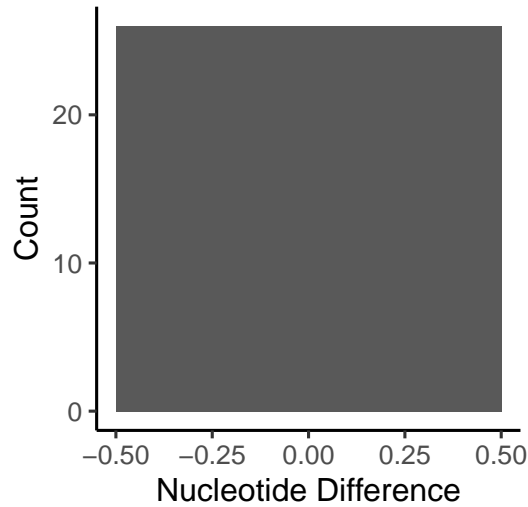
TRBV6-4*ap01

3286 sequences assigned
3240 (98.6%) exact matches, in which:
3189 unique CDR3
15 unique J



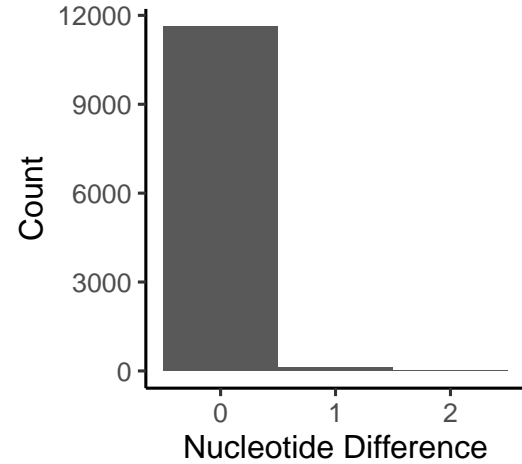
TRBV6-8*ap01_A293G

26 sequences assigned
26 (100%) exact matches, in which:
26 unique CDR3
12 unique J



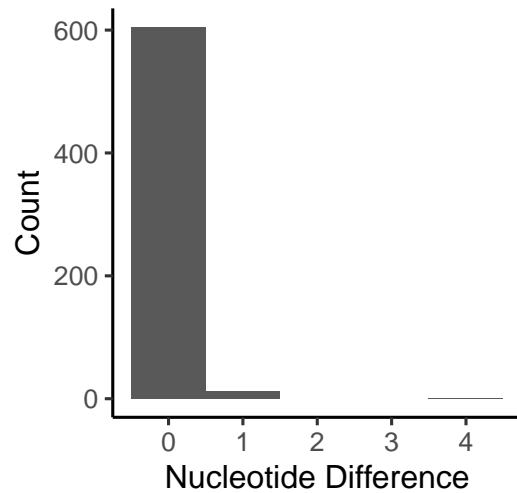
TRBV6-56*ap01

11771 sequences assigned
11636 (98.9%) exact matches, in which:
11431 unique CDR3
14 unique J



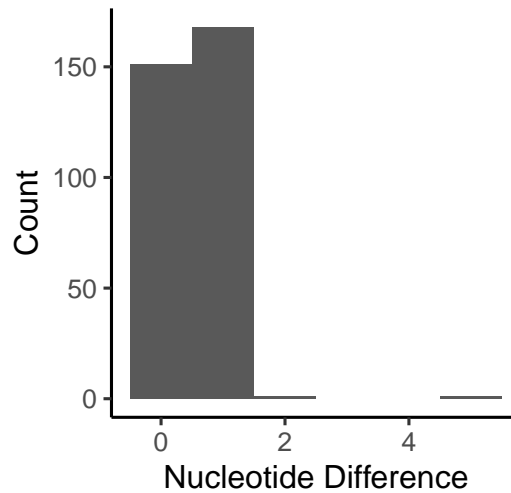
TRBV6-7*ap01

618 sequences assigned
605 (97.9%) exact matches, in which:
589 unique CDR3
14 unique J



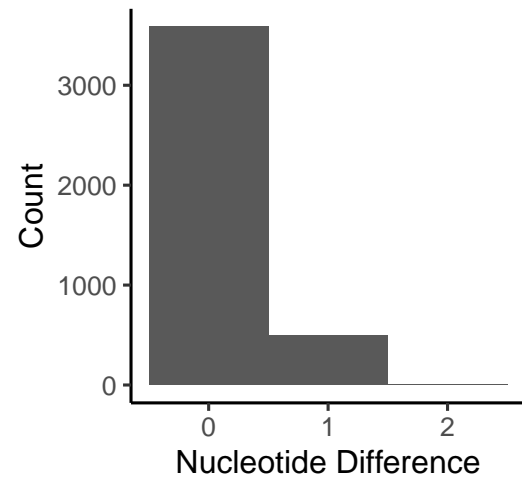
TRBV6-9*ap01

321 sequences assigned
151 (47%) exact matches, in which:
149 unique CDR3
13 unique J



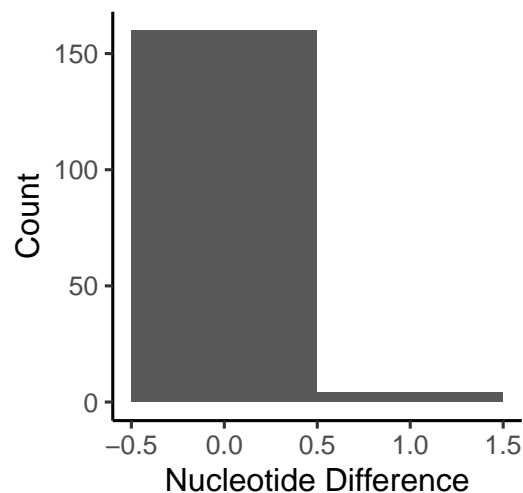
TRBV6-56*ap02

4080 sequences assigned
3586 (87.9%) exact matches, in which:
3527 unique CDR3
14 unique J



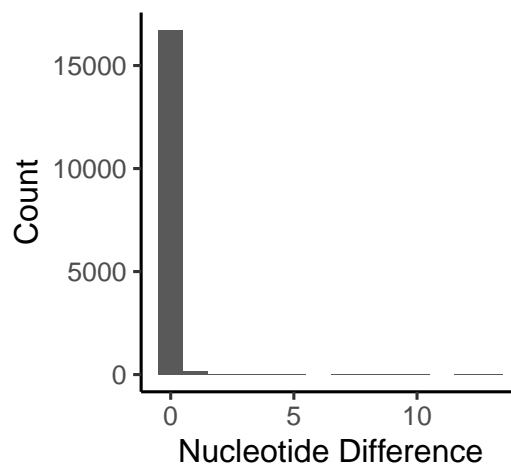
TRBV6-8*ap01

164 sequences assigned
160 (97.6%) exact matches, in which:
159 unique CDR3
12 unique J



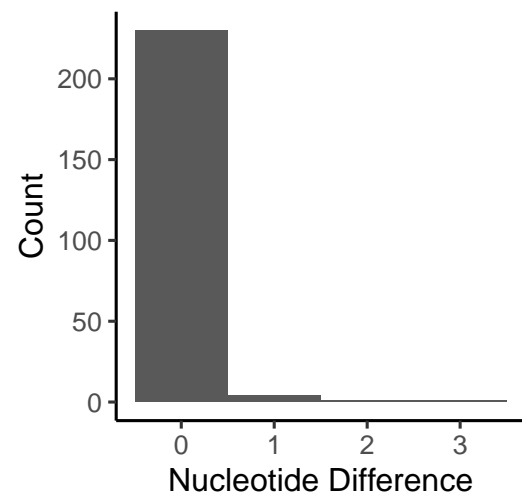
TRBV6-23*ap01

16937 sequences assigned
16735 (98.8%) exact matches, in which:
16421 unique CDR3
14 unique J



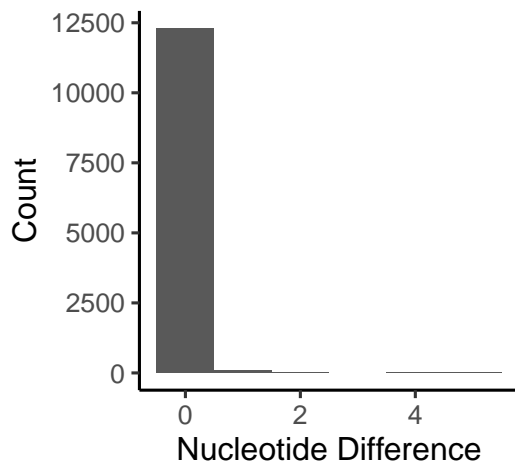
TRBV7-1*ap01_G291C_

236 sequences assigned
230 (97.5%) exact matches, in which:
226 unique CDR3
14 unique J



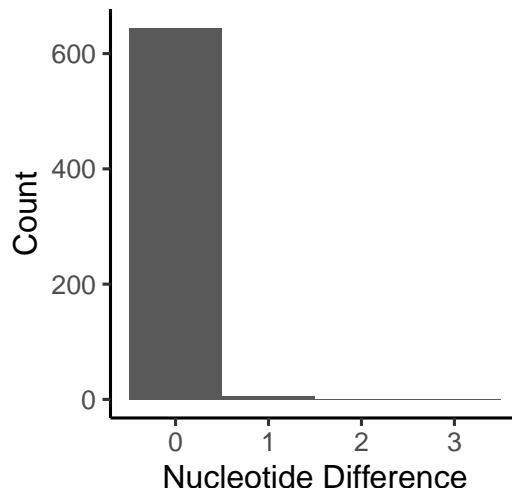
TRBV7-2*ap01

12387 sequences assigned
12308 (99.4%) exact matches, in which:
12187 unique CDR3
14 unique J



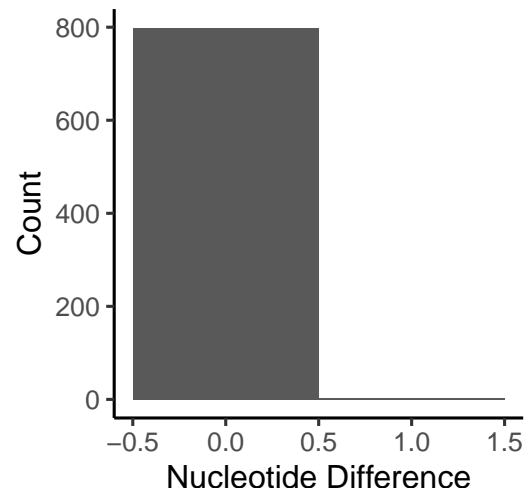
TRBV7-4*ap01

653 sequences assigned
645 (98.8%) exact matches, in which:
634 unique CDR3
14 unique J



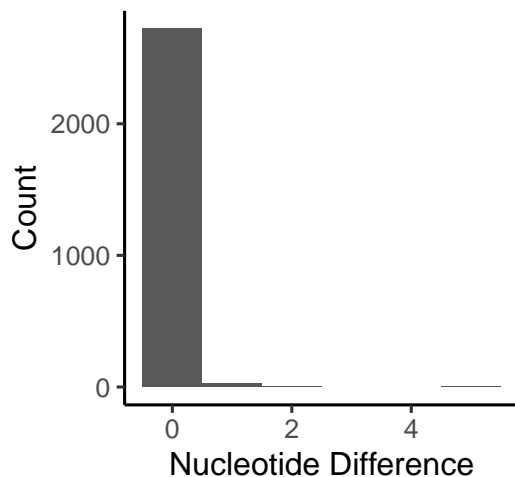
TRBV7-7*ap01_C315T

802 sequences assigned
799 (99.6%) exact matches, in which:
784 unique CDR3
14 unique J



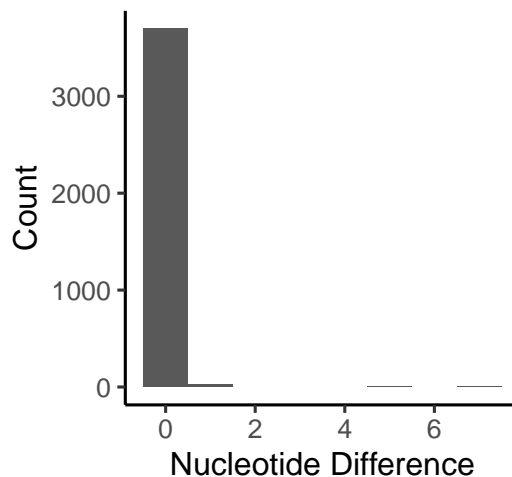
TRBV7-3*ap01

2750 sequences assigned
2722 (99%) exact matches, in which:
2683 unique CDR3
14 unique J



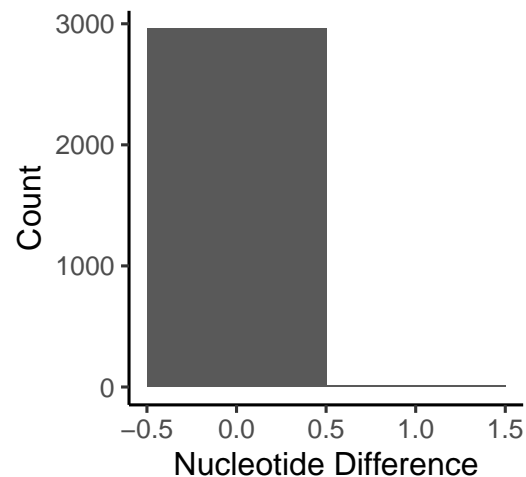
TRBV7-6*ap01

3726 sequences assigned
3697 (99.2%) exact matches, in which:
3654 unique CDR3
14 unique J



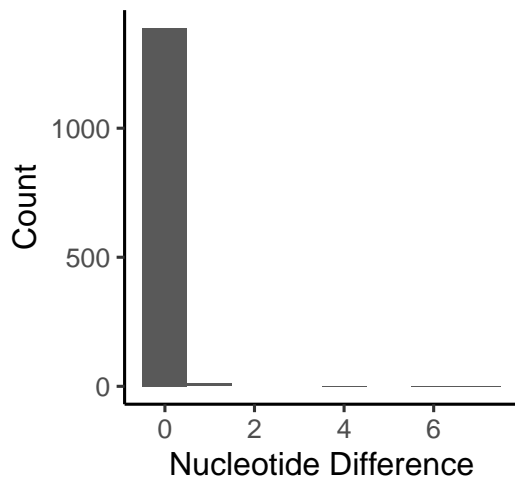
TRBV7-8*ap01

2971 sequences assigned
2959 (99.6%) exact matches, in which:
2907 unique CDR3
14 unique J



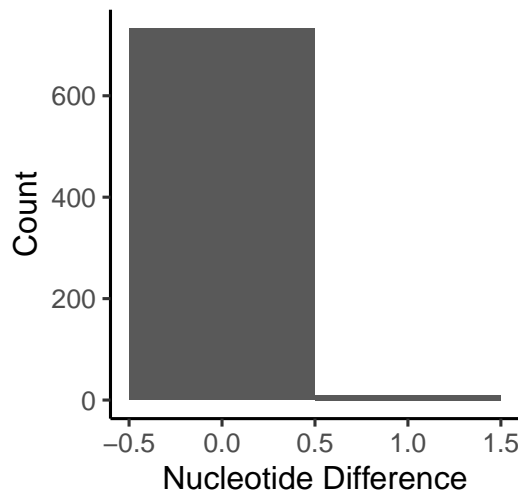
TRBV7-3*ap02

1402 sequences assigned
1388 (99%) exact matches, in which:
1369 unique CDR3
13 unique J



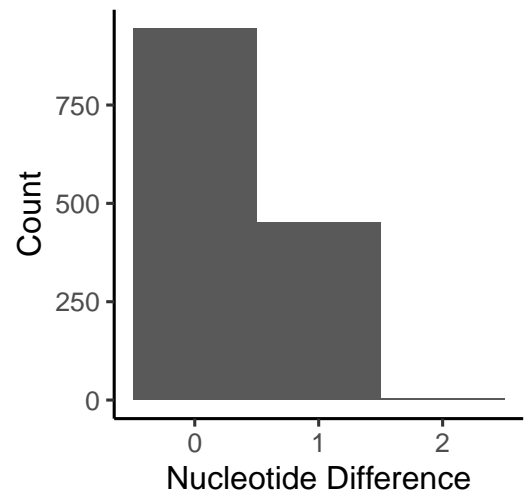
TRBV7-7*ap01

743 sequences assigned
733 (98.7%) exact matches, in which:
721 unique CDR3
14 unique J



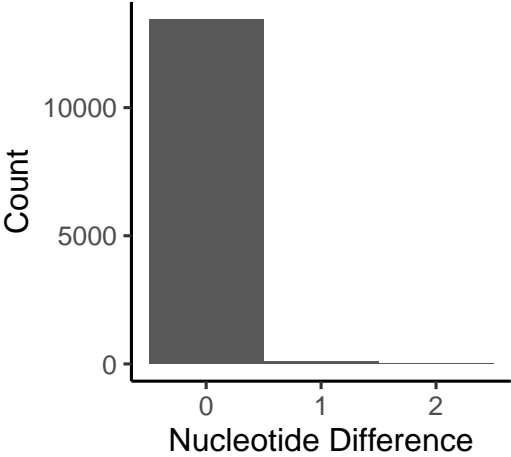
TRBV7-8*ap03

1401 sequences assigned
945 (67.5%) exact matches, in which:
929 unique CDR3
14 unique J



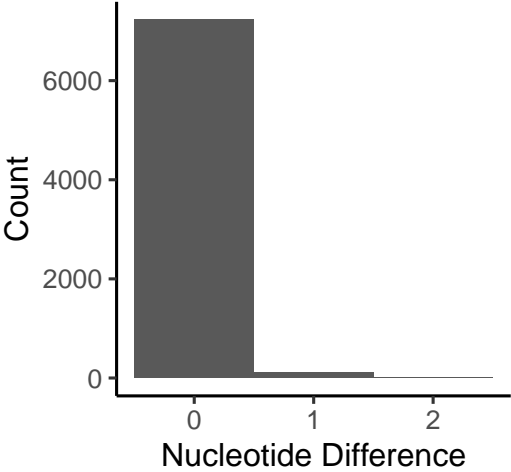
TRBV7-9*ap01

13563 sequences assigned
13452 (99.2%) exact matches, in which:
13318 unique CDR3
14 unique J



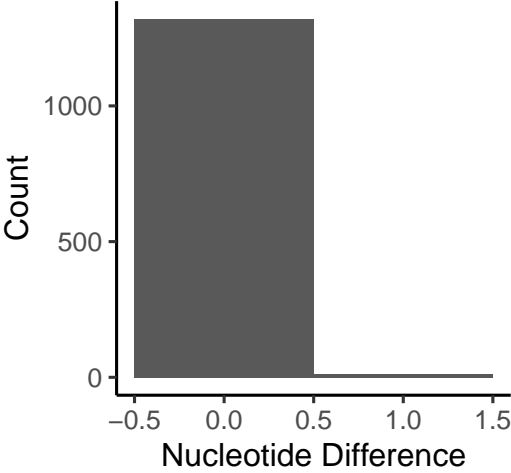
TRBV29-1*ap01

7332 sequences assigned
7229 (98.6%) exact matches, in which:
7121 unique CDR3
14 unique J

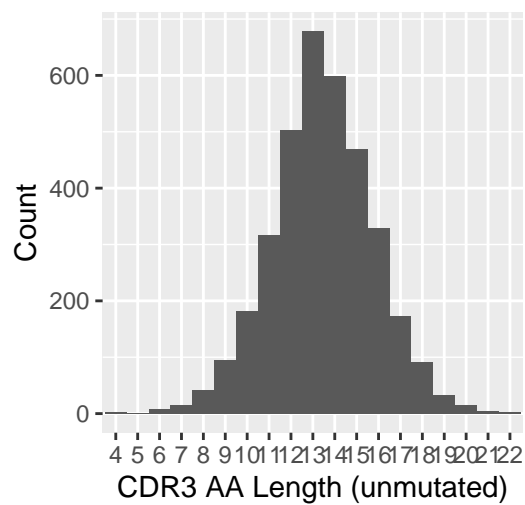


TRBV29-1*ap02

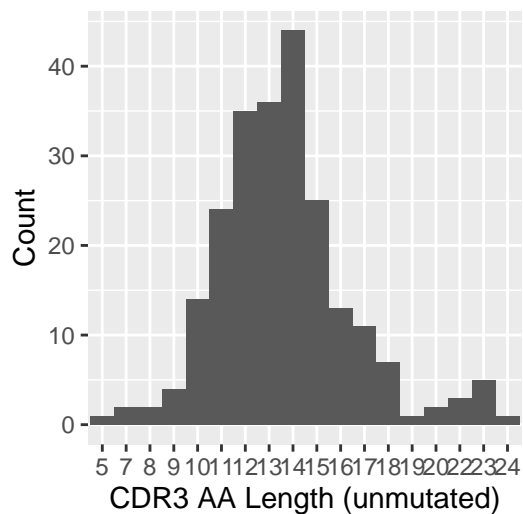
1332 sequences assigned
1320 (99.1%) exact matches, in which:
1298 unique CDR3
14 unique J



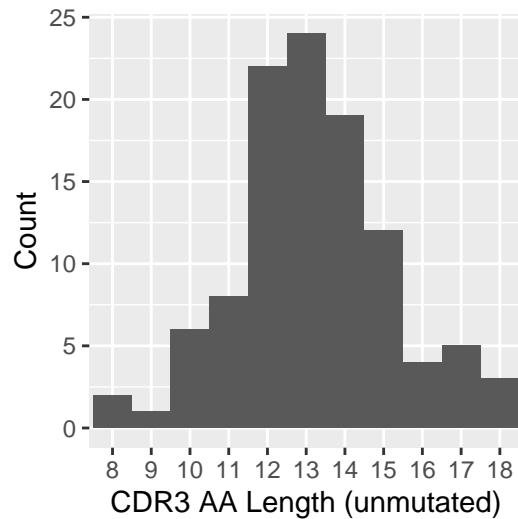
TRBV21-1*ap01_T307C



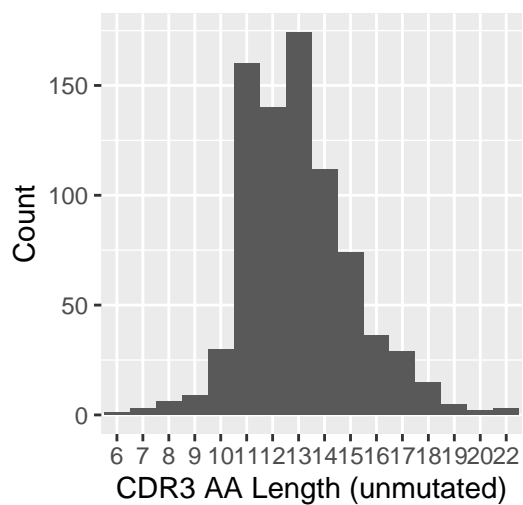
TRBV7-1*ap01_G291C_T296C



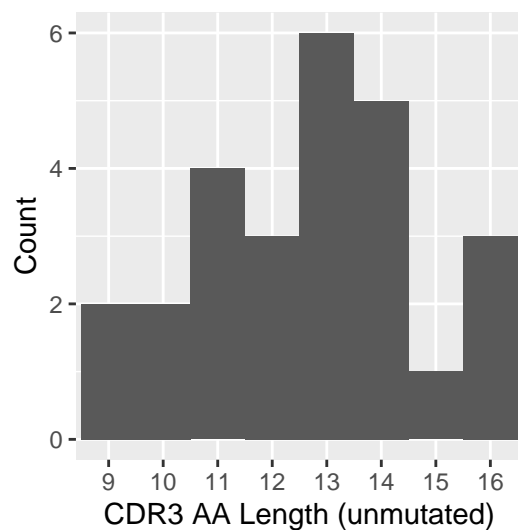
TRBV5-7*ap01_G290A

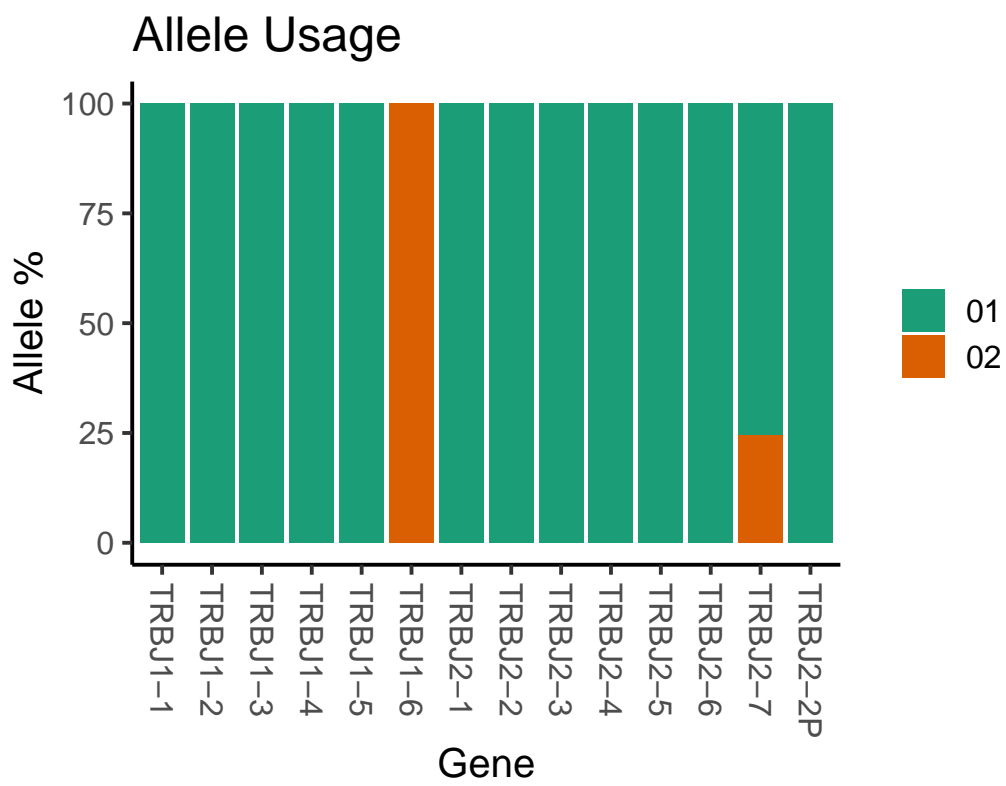


TRBV7-7*ap01_C315T



TRBV6-8*ap01_A293G





[illegible]