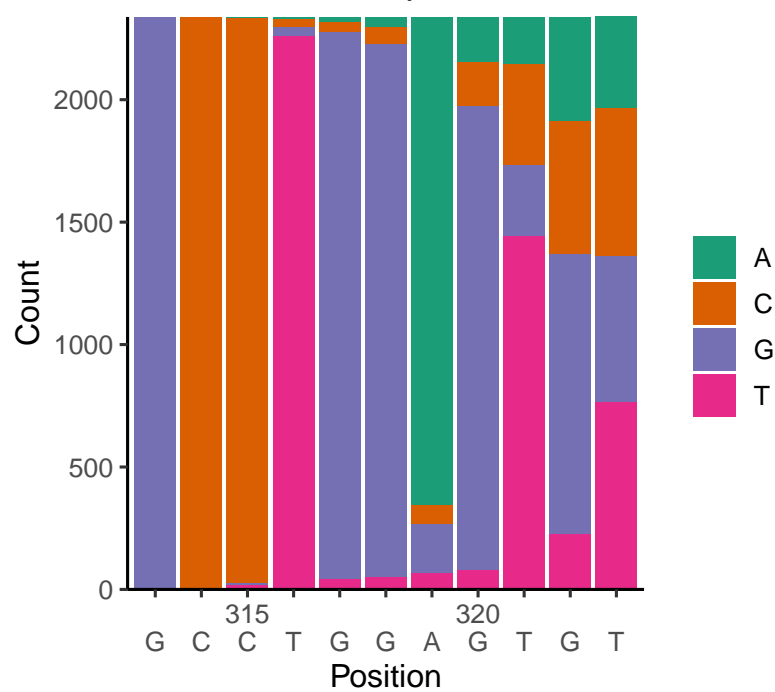
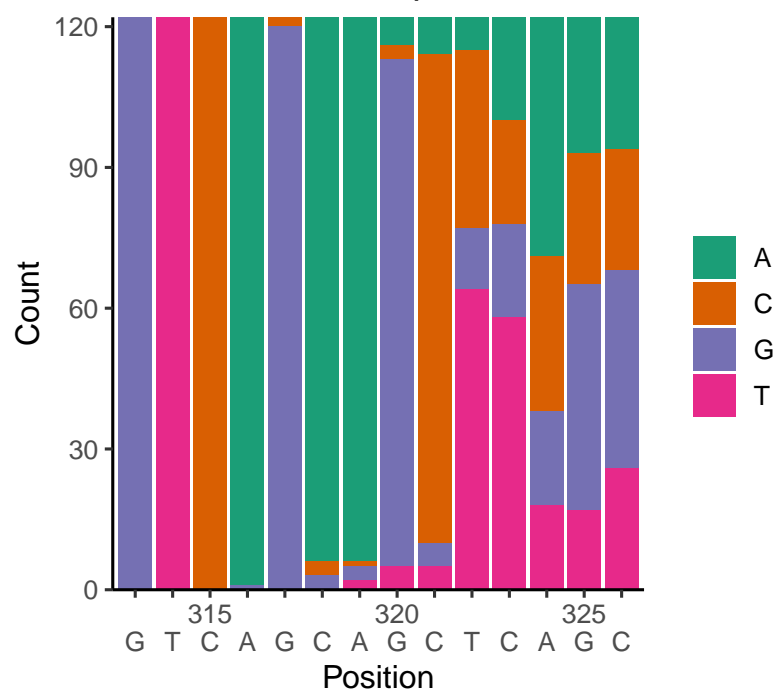


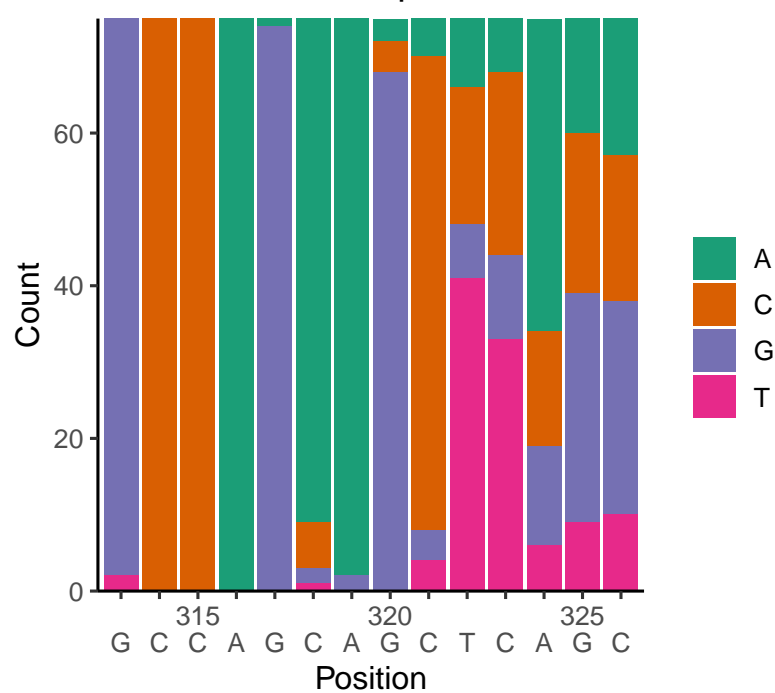
Gene TRBV30*ap01_G298A



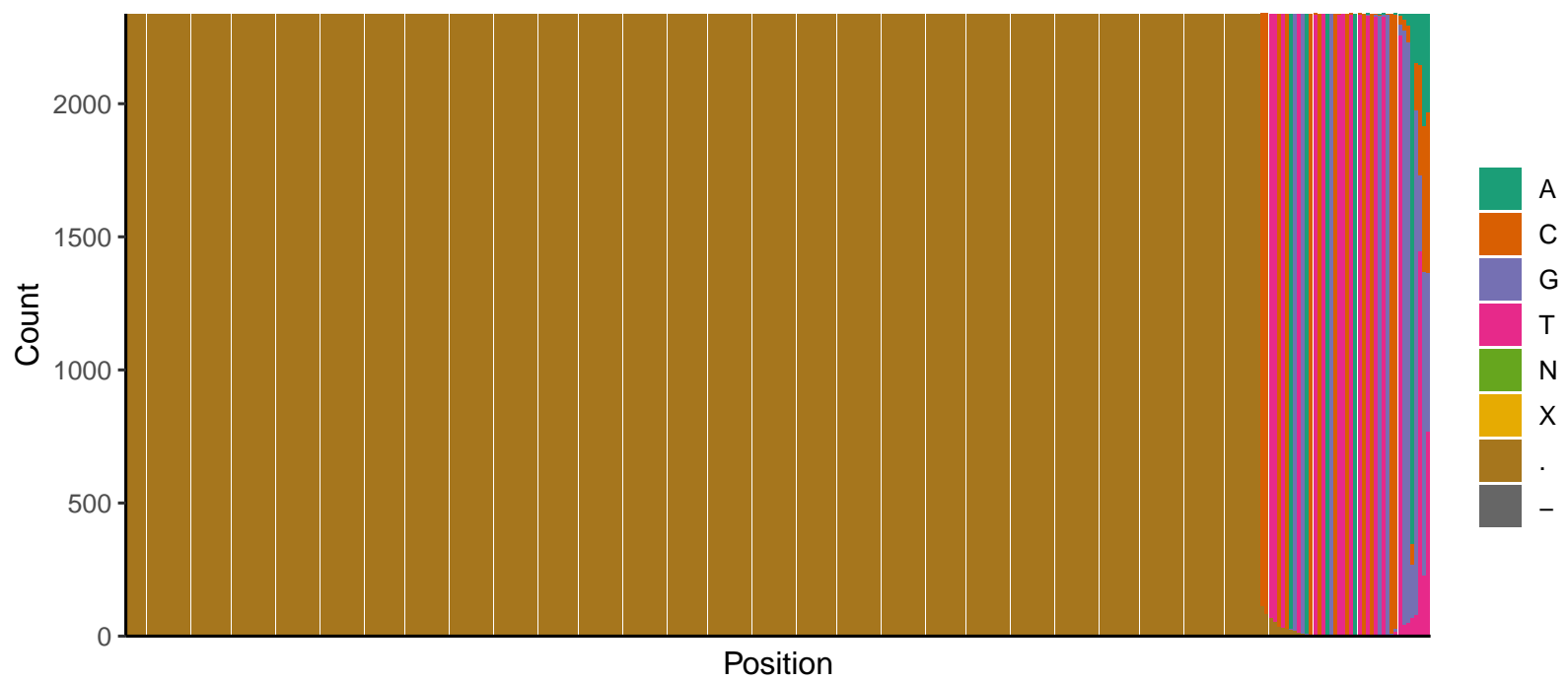
Gene TRBV7-1*ap01_G291C_T296C_C314T



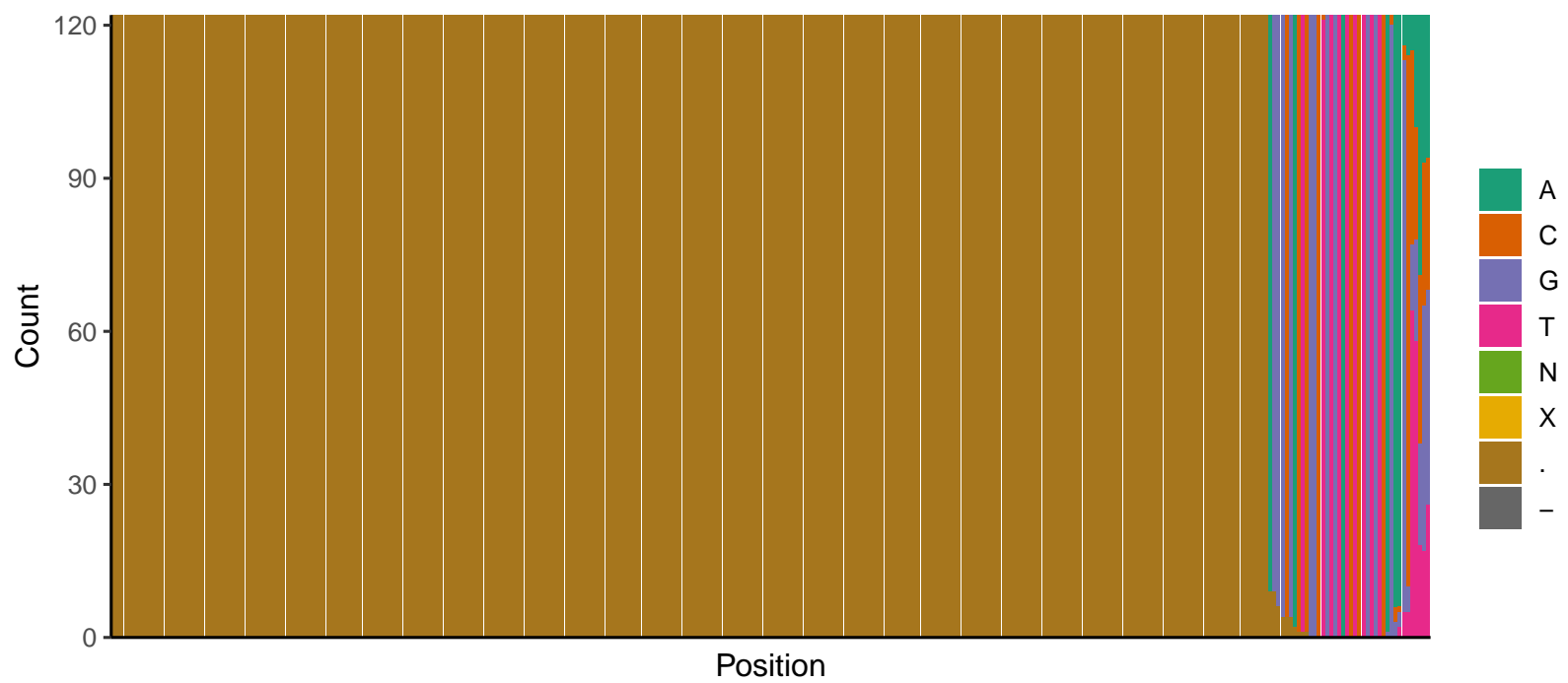
Gene TRBV7-1*ap01_G291C_T296C



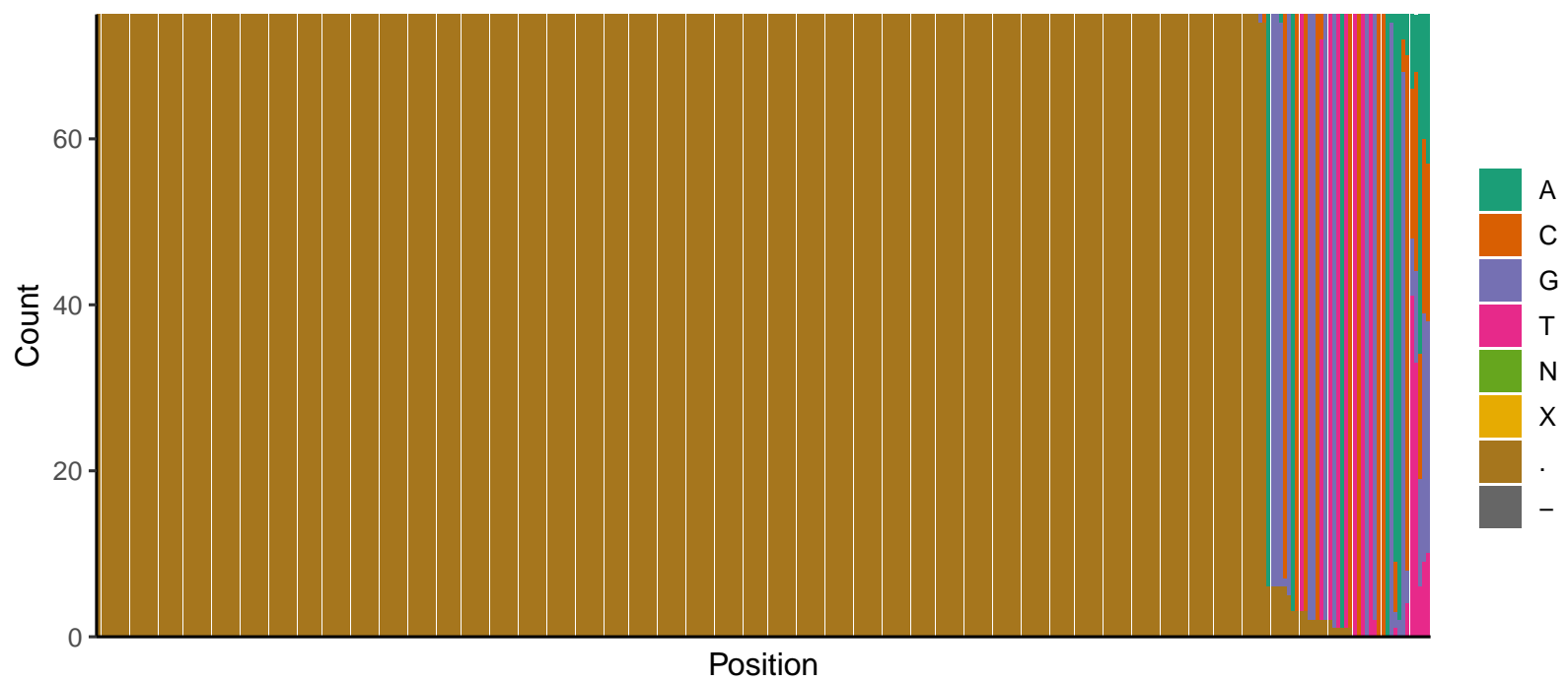
Gene TRBV30*ap01_G298A



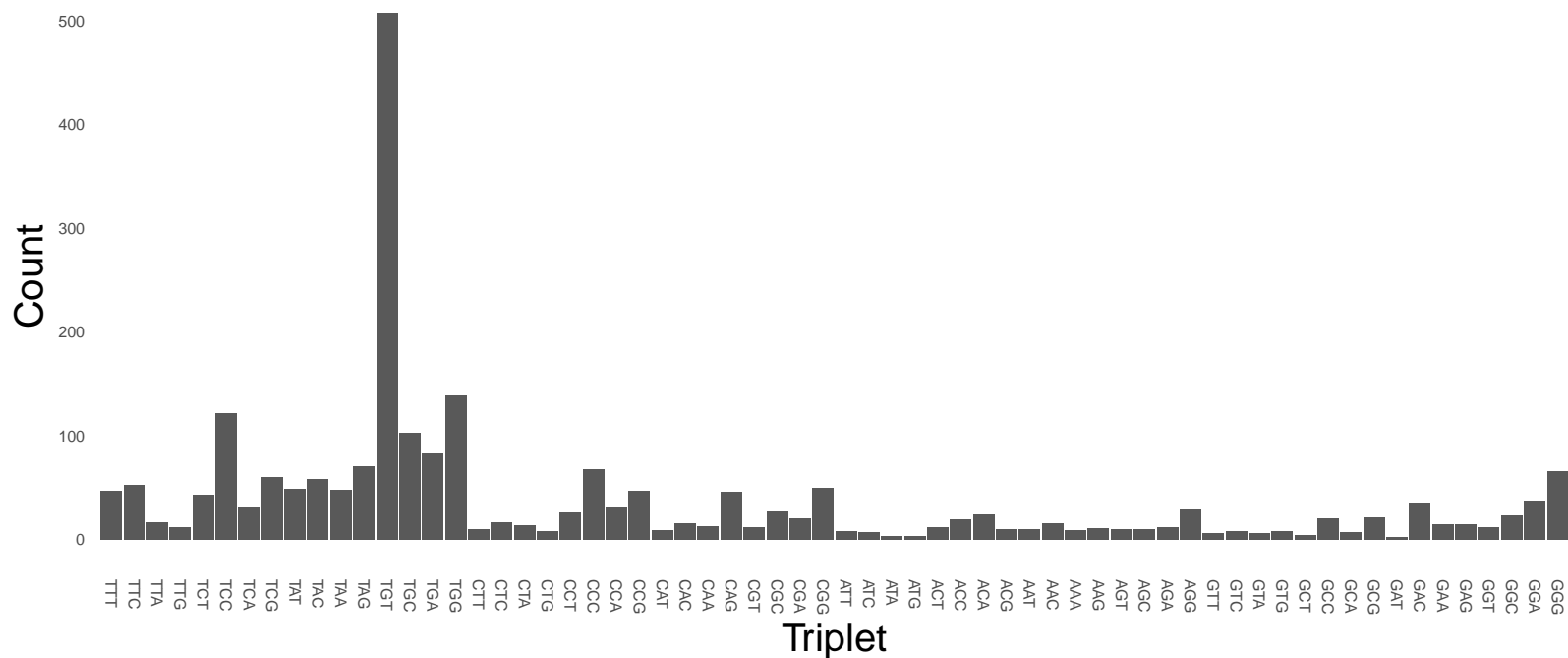
Gene TRBV7-1*ap01_G291C_T296C_C314T



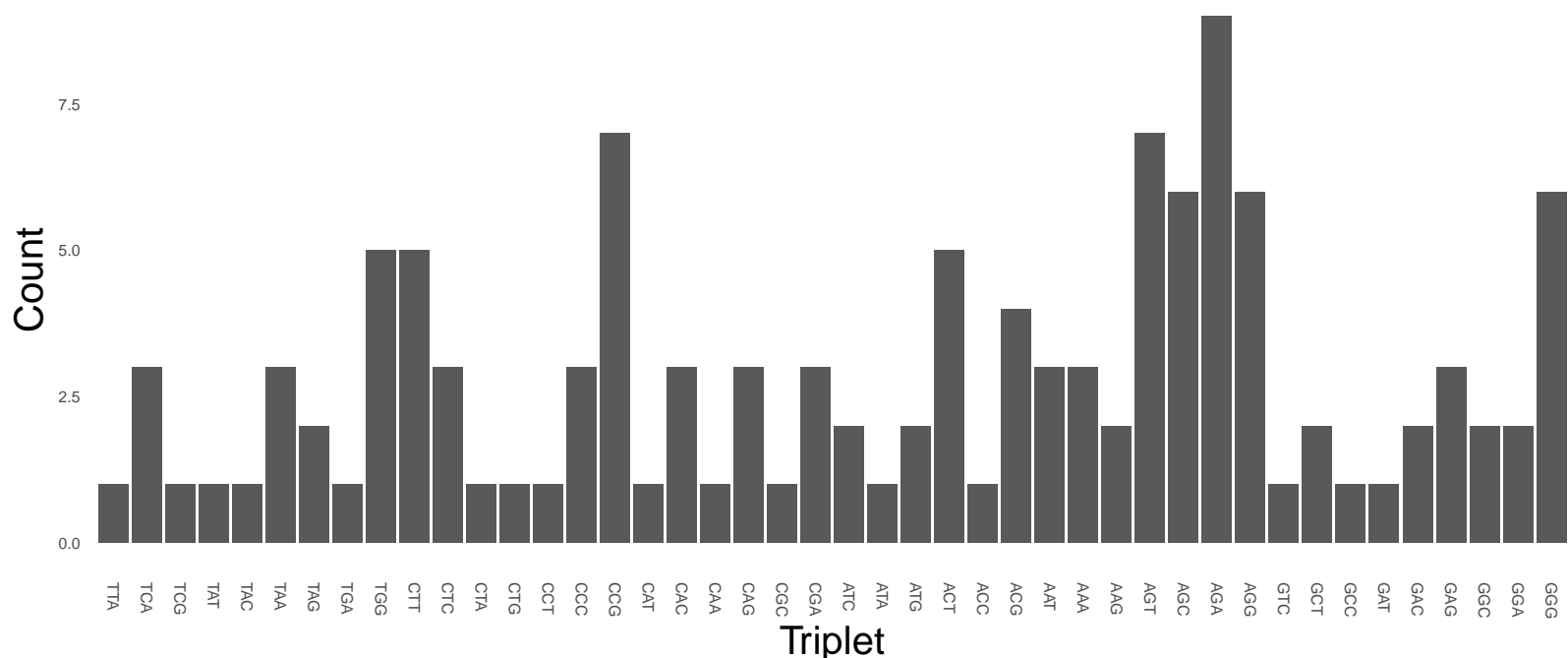
Gene TRBV7-1*ap01_G291C_T296C



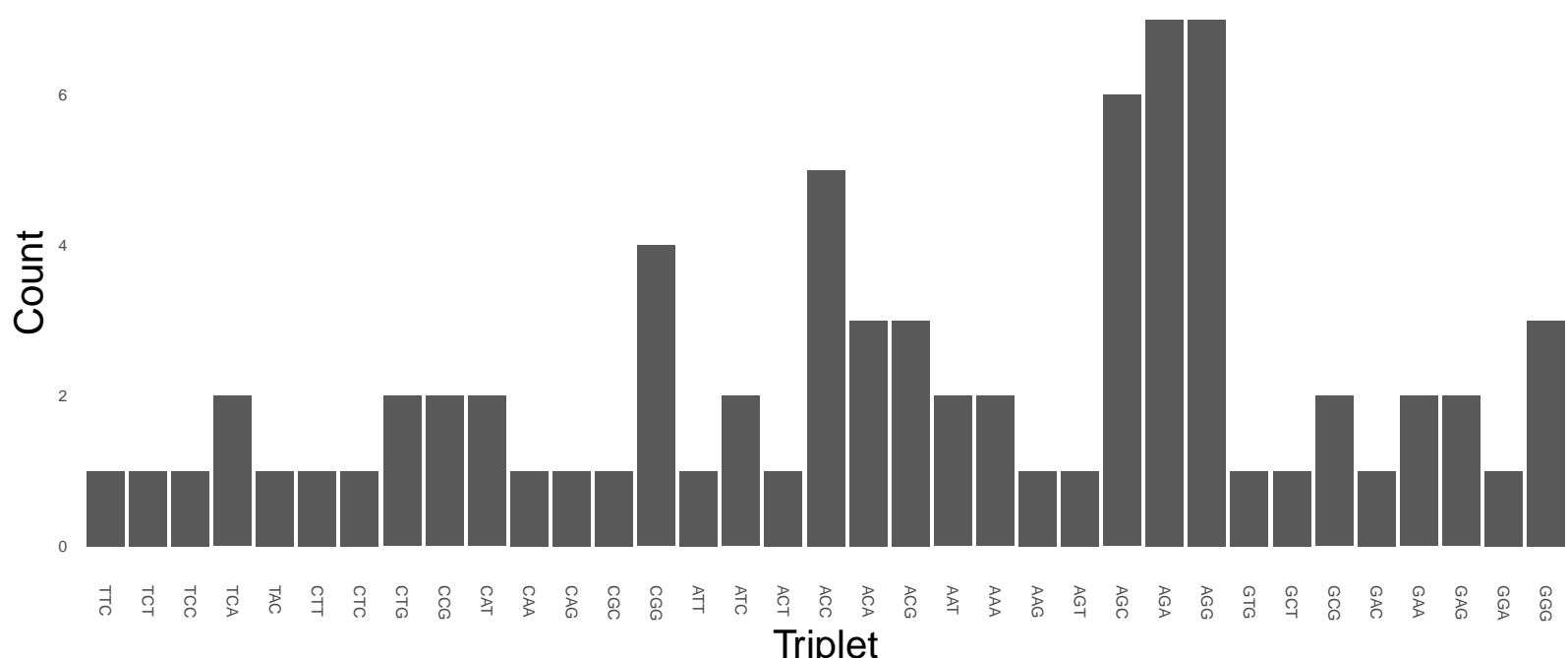
TRBV30*ap01_G298A– Final 3 nucleotides as a triplet



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

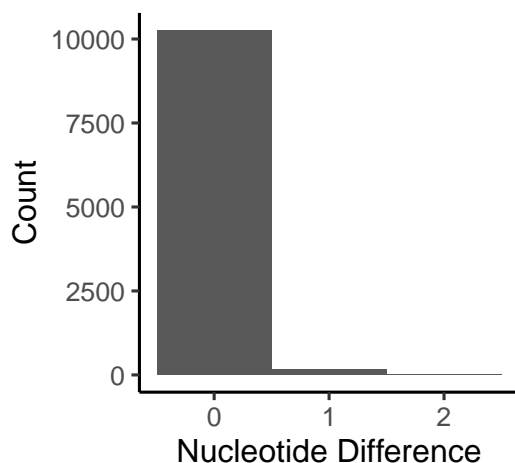


TRBV7-1*ap01_G291C_T296C– Final 3 nucleotides as a triplet



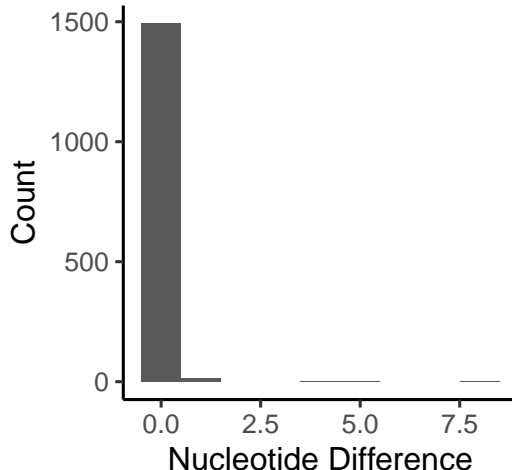
TRBV20-1*ap01

10418 sequences assigned
10264 (98.5%) exact matches, in which:
10088 unique CDR3
13 unique J



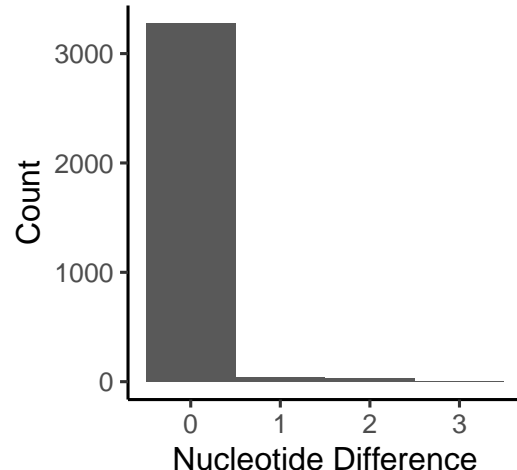
TRBV10-2*ap01

1509 sequences assigned
1493 (98.9%) exact matches, in which:
1462 unique CDR3
13 unique J



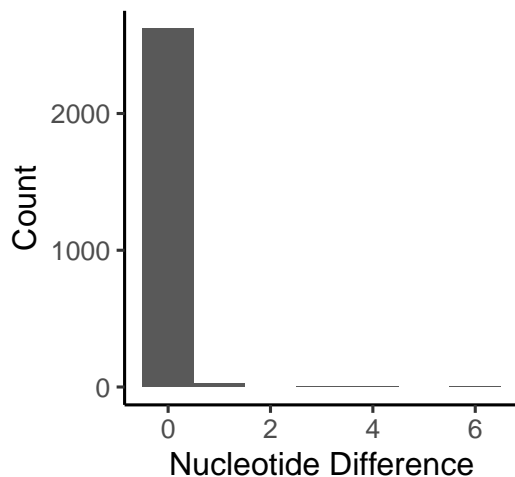
TRBV13*ap01

3344 sequences assigned
3276 (98%) exact matches, in which:
3202 unique CDR3
13 unique J



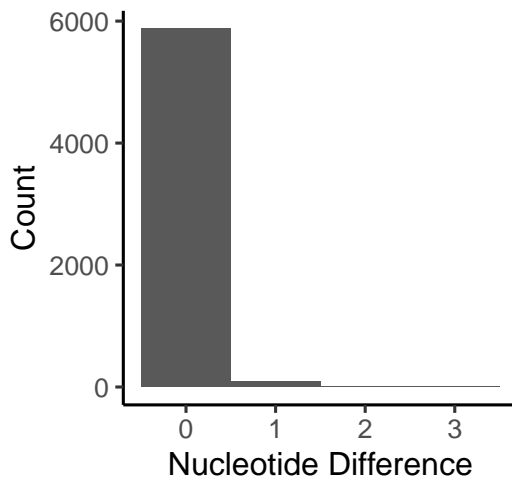
TRBV10-1*ap01

2648 sequences assigned
2620 (98.9%) exact matches, in which:
2569 unique CDR3
13 unique J



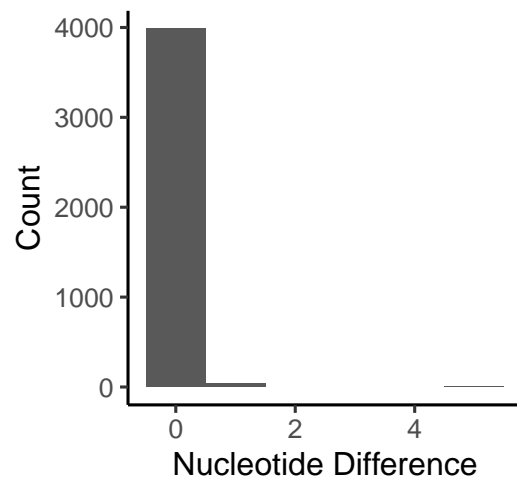
TRBV10-3*ap01

5964 sequences assigned
5875 (98.5%) exact matches, in which:
5749 unique CDR3
13 unique J



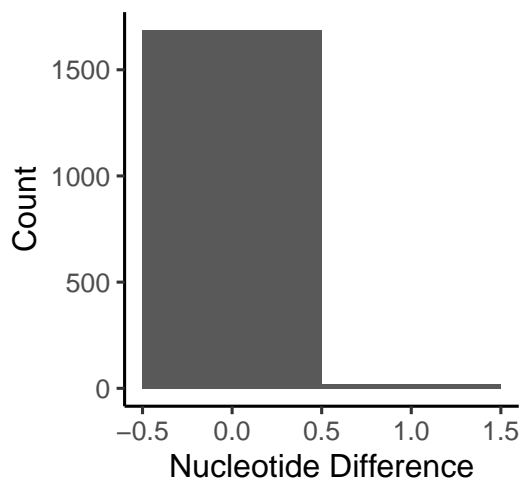
TRBV14*ap01

4022 sequences assigned
3986 (99.1%) exact matches, in which:
3914 unique CDR3
13 unique J



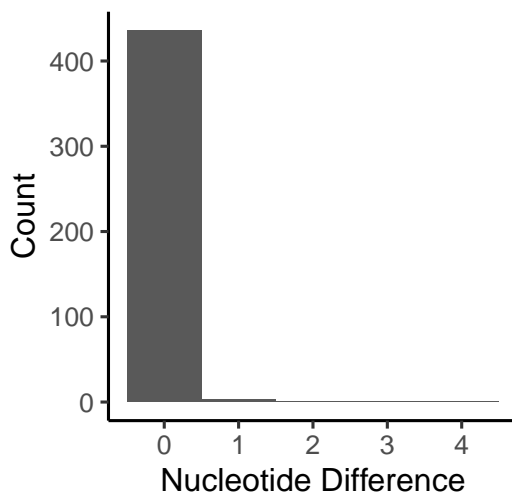
TRBV20-1*ap02

1707 sequences assigned
1687 (98.8%) exact matches, in which:
1651 unique CDR3
13 unique J



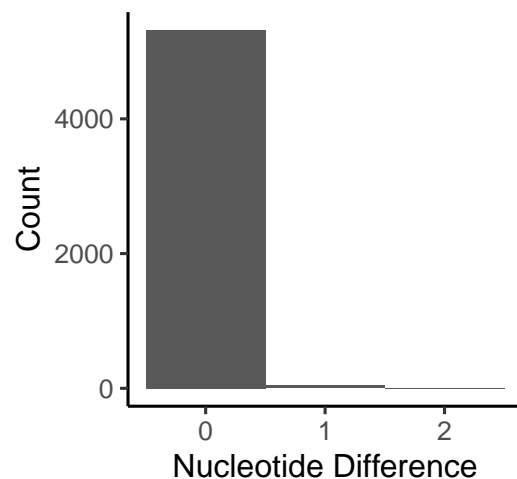
TRBV1*ap01

442 sequences assigned
436 (98.6%) exact matches, in which:
429 unique CDR3
13 unique J



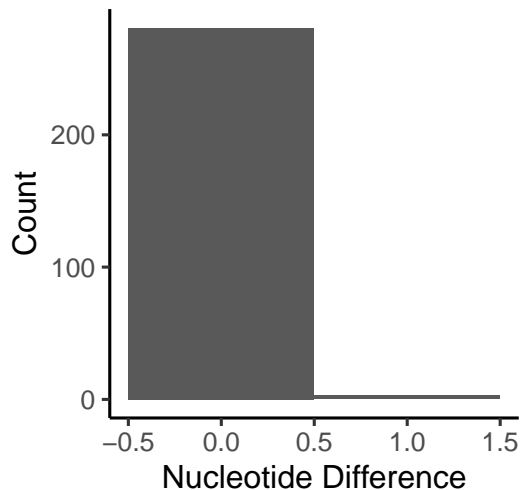
TRBV15*ap02

5361 sequences assigned
5318 (99.2%) exact matches, in which:
5202 unique CDR3
13 unique J



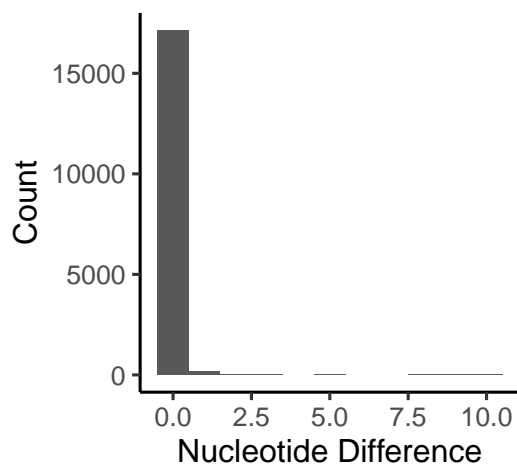
TRBV16*ap01

284 sequences assigned
281 (98.9%) exact matches, in which:
278 unique CDR3
13 unique J



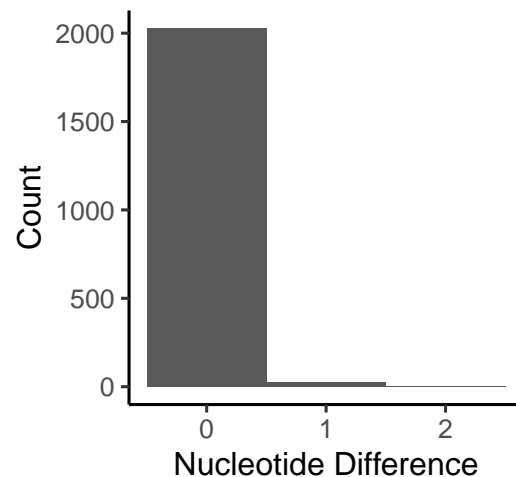
TRBV19*ap01

17324 sequences assigned
17146 (99%) exact matches, in which:
16982 unique CDR3
13 unique J



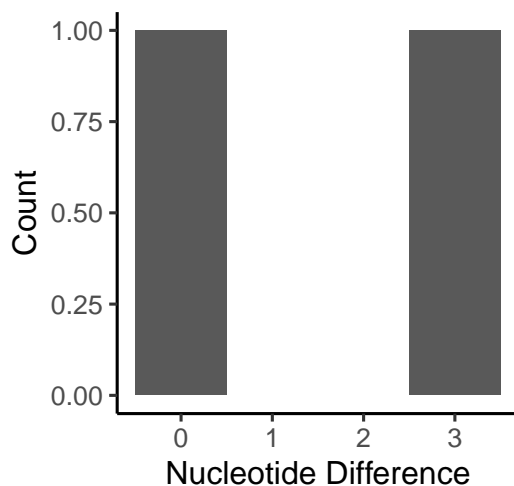
TRBV28*ap01

2054 sequences assigned
2027 (98.7%) exact matches, in which:
1986 unique CDR3
13 unique J



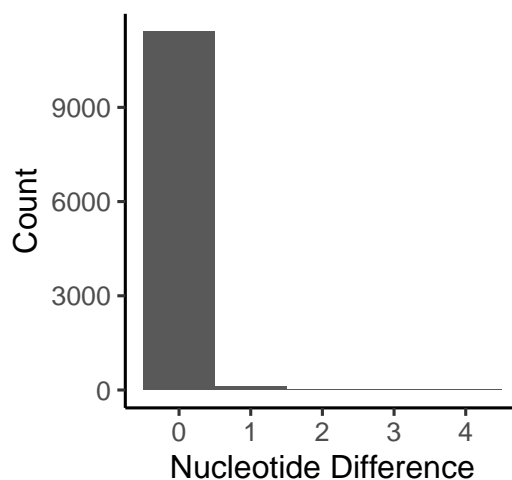
TRBV17*ap01

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



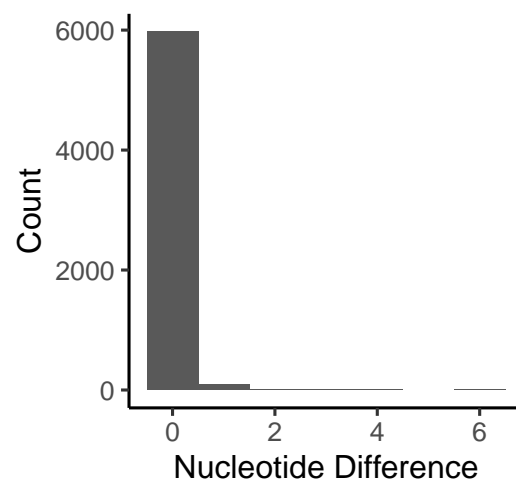
TRBV2*ap01

11538 sequences assigned
11409 (98.9%) exact matches, in which:
11179 unique CDR3
13 unique J



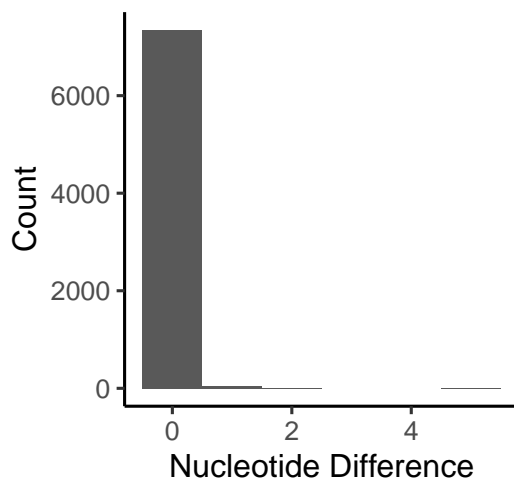
TRBV30*ap01

6086 sequences assigned
5973 (98.1%) exact matches, in which:
5909 unique CDR3
13 unique J



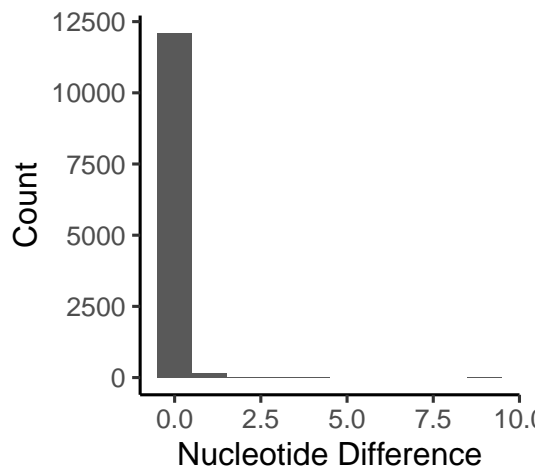
TRBV18*ap01

7394 sequences assigned
7345 (99.3%) exact matches, in which:
7258 unique CDR3
13 unique J



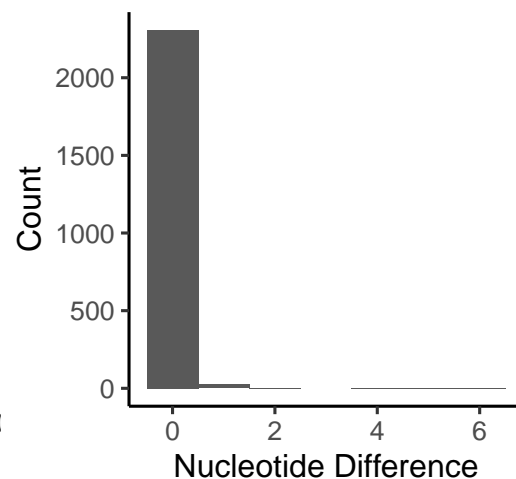
TRBV27*ap01

12282 sequences assigned
12108 (98.6%) exact matches, in which:
11826 unique CDR3
13 unique J



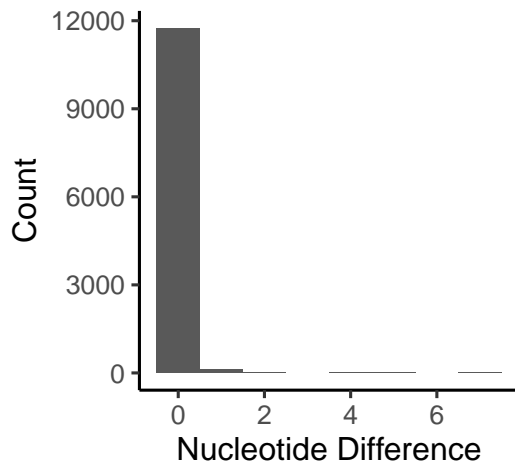
TRBV30*ap01_G298A

2338 sequences assigned
2307 (98.7%) exact matches, in which:
2282 unique CDR3
13 unique J



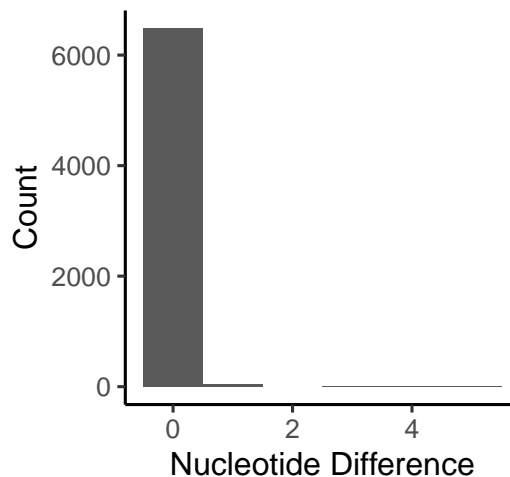
TRBV9*ap01

11880 sequences assigned
11747 (98.9%) exact matches, in which:
11565 unique CDR3
13 unique J



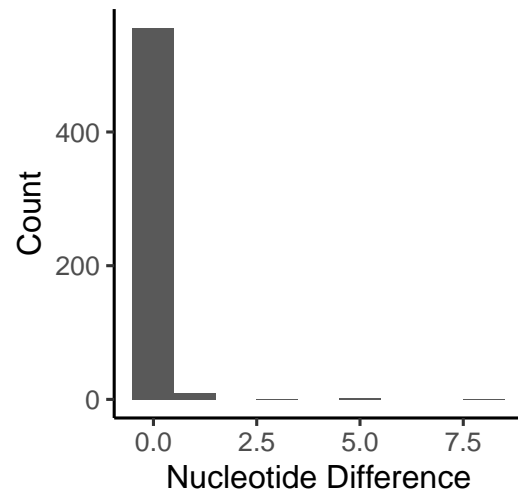
TRBV11-2*ap01

6531 sequences assigned
6483 (99.3%) exact matches, in which:
6350 unique CDR3
13 unique J



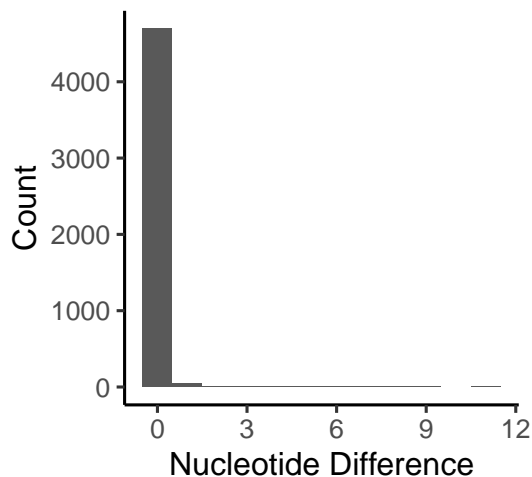
TRBV12-2*ap01

570 sequences assigned
556 (97.5%) exact matches, in which:
545 unique CDR3
13 unique J



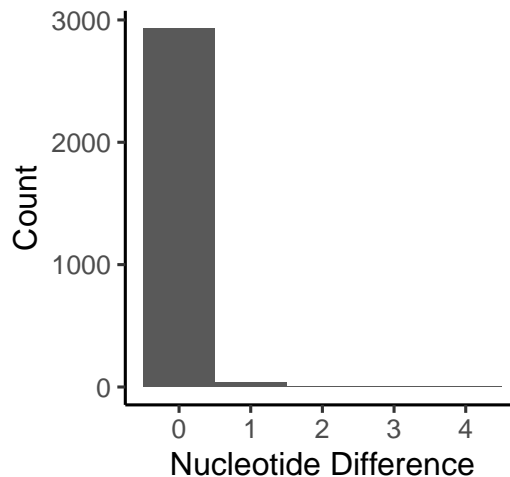
TRBV21-1*ap01

4767 sequences assigned
4695 (98.5%) exact matches, in which:
4629 unique CDR3
13 unique J



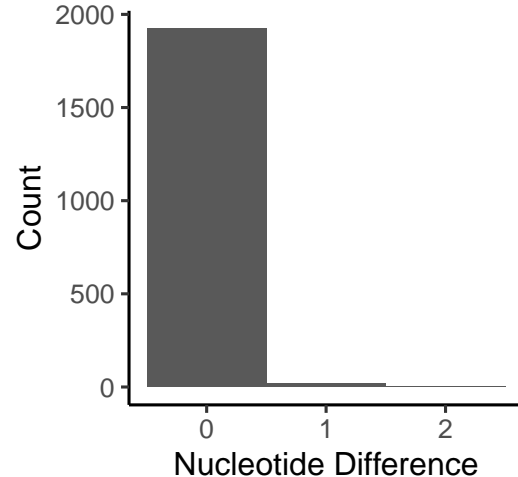
TRBV11-3*ap01

2966 sequences assigned
2928 (98.7%) exact matches, in which:
2878 unique CDR3
13 unique J



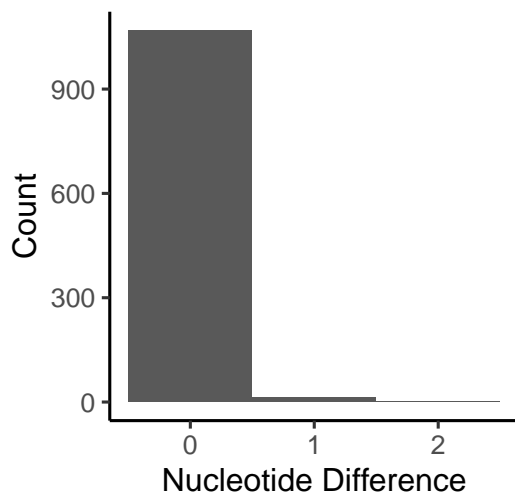
TRBV12-5*ap01

1942 sequences assigned
1923 (99%) exact matches, in which:
1891 unique CDR3
13 unique J



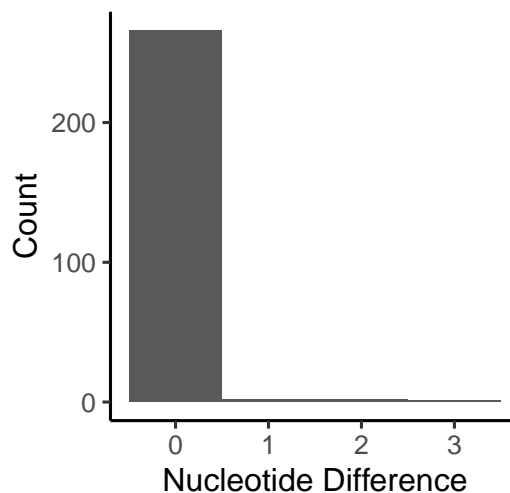
TRBV11-1*ap01

1082 sequences assigned
1069 (98.8%) exact matches, in which:
1044 unique CDR3
13 unique J



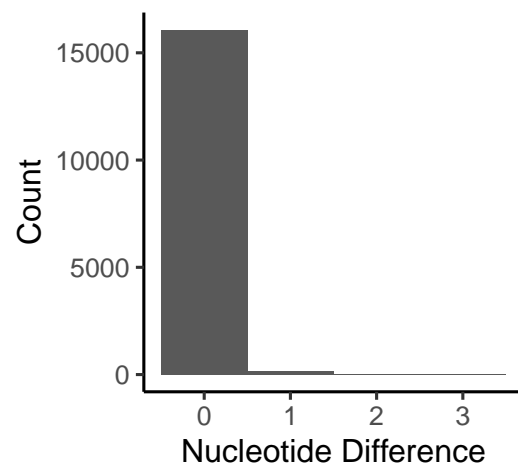
TRBV12-1*ap01

271 sequences assigned
266 (98.2%) exact matches, in which:
262 unique CDR3
13 unique J



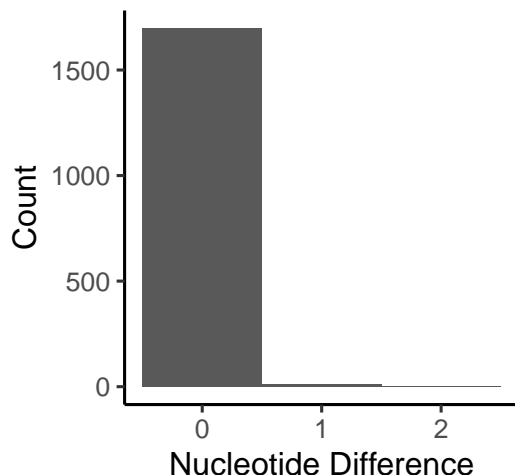
TRBV12-34*ap01

16243 sequences assigned
16073 (99%) exact matches, in which:
15792 unique CDR3
13 unique J



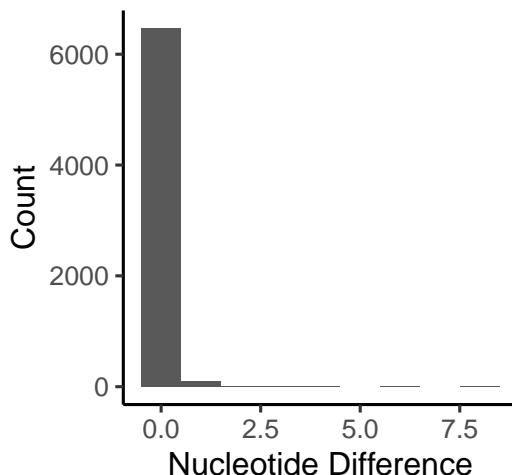
TRBV23-1*ap01

1709 sequences assigned
1697 (99.3%) exact matches, in which:
1666 unique CDR3
13 unique J



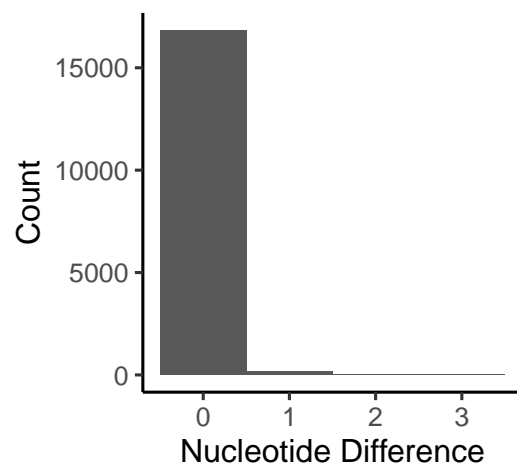
TRBV24-1*ap01

6566 sequences assigned
6466 (98.5%) exact matches, in which:
6383 unique CDR3
13 unique J



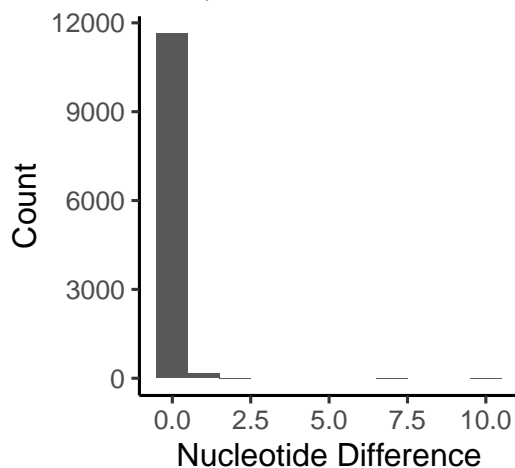
TRBV5-1*ap01

17007 sequences assigned
16838 (99%) exact matches, in which:
16449 unique CDR3
13 unique J



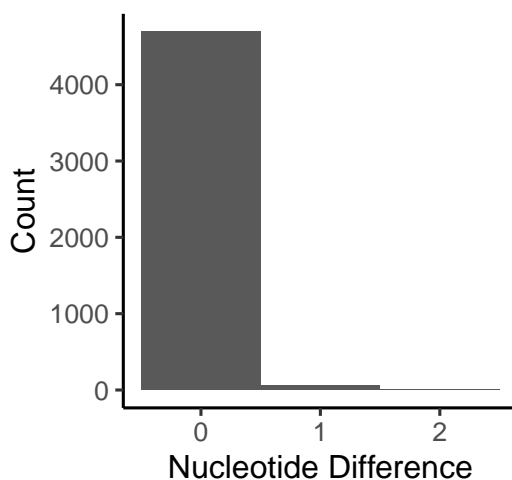
TRBV3-12*ap01

11803 sequences assigned
11641 (98.6%) exact matches, in which:
11399 unique CDR3
13 unique J



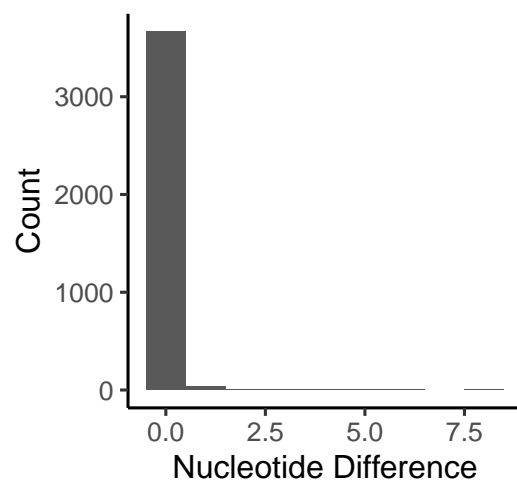
TRBV4-2*ap01

4754 sequences assigned
4694 (98.7%) exact matches, in which:
4619 unique CDR3
13 unique J



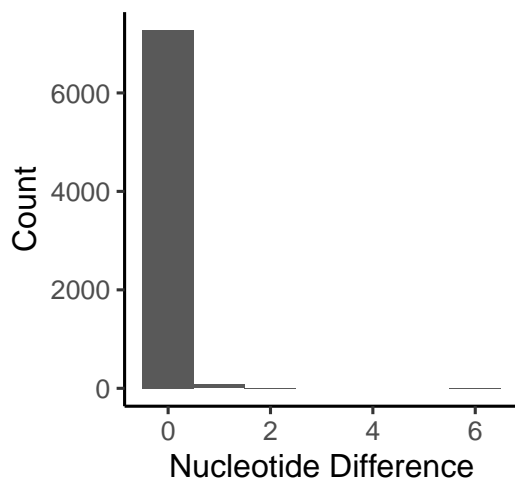
TRBV25-1*ap01

3713 sequences assigned
3665 (98.7%) exact matches, in which:
3606 unique CDR3
13 unique J



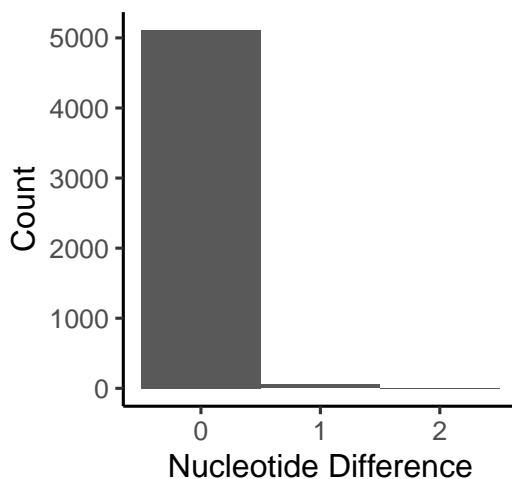
TRBV4-1*ap01

7358 sequences assigned
7277 (98.9%) exact matches, in which:
7162 unique CDR3
13 unique J



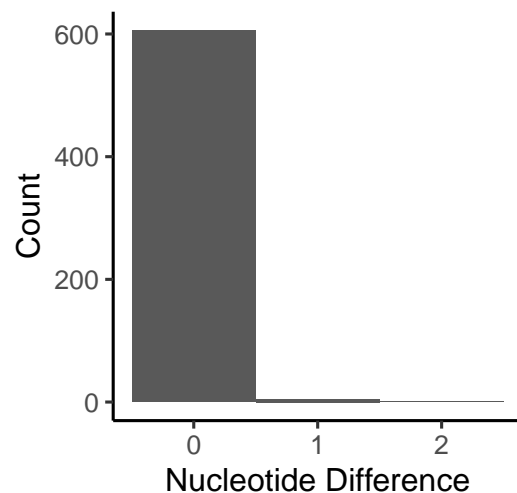
TRBV4-3*ap01

5169 sequences assigned
5112 (98.9%) exact matches, in which:
5021 unique CDR3
13 unique J



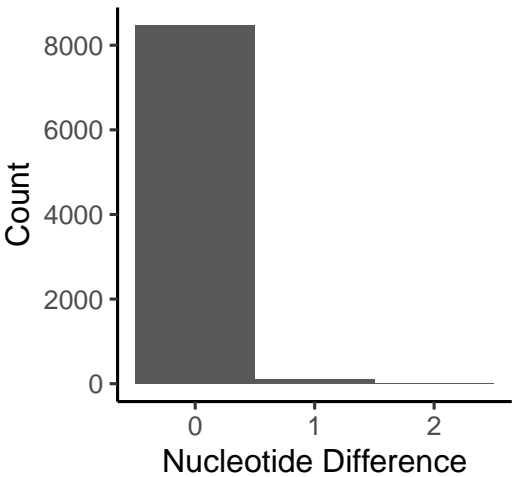
TRBV5-3*ap01

612 sequences assigned
606 (99%) exact matches, in which:
593 unique CDR3
13 unique J



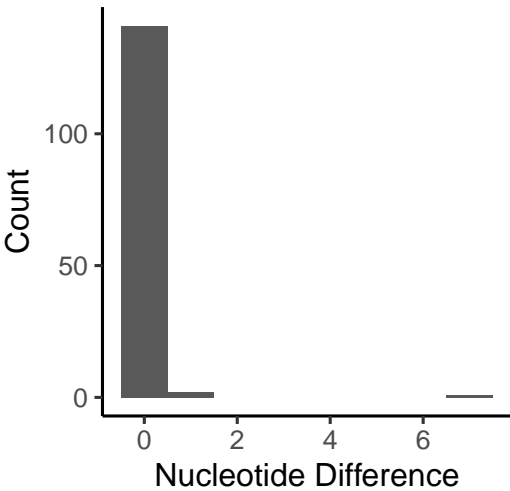
TRBV5-4*ap01

8571 sequences assigned
8468 (98.8%) exact matches, in which:
8258 unique CDR3
13 unique J



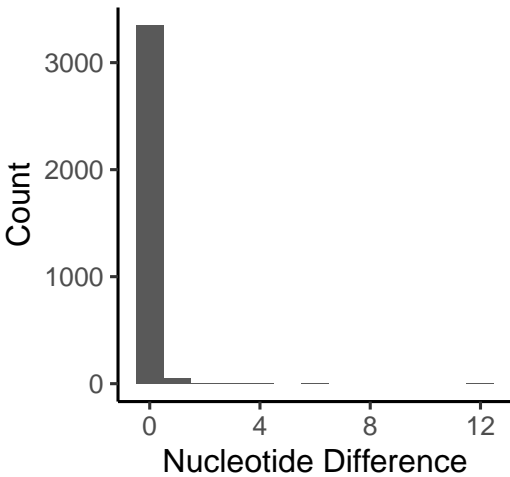
TRBV5-7*ap01

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



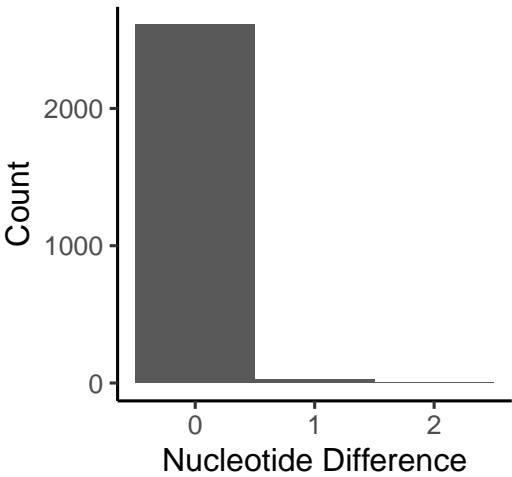
TRBV6-4*ap01

3402 sequences assigned
3348 (98.4%) exact matches, in which:
3296 unique CDR3
13 unique J



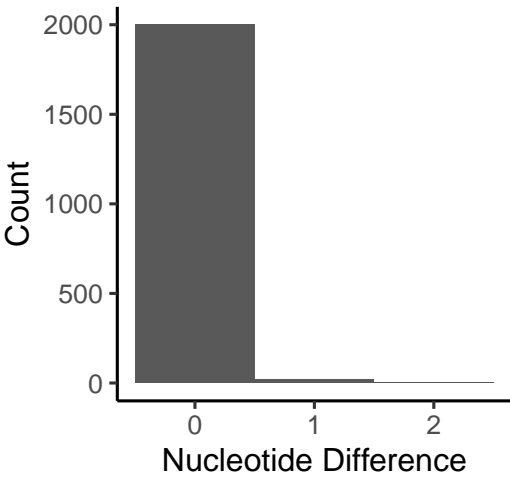
TRBV5-5*ap01

2633 sequences assigned
2610 (99.1%) exact matches, in which:
2588 unique CDR3
13 unique J



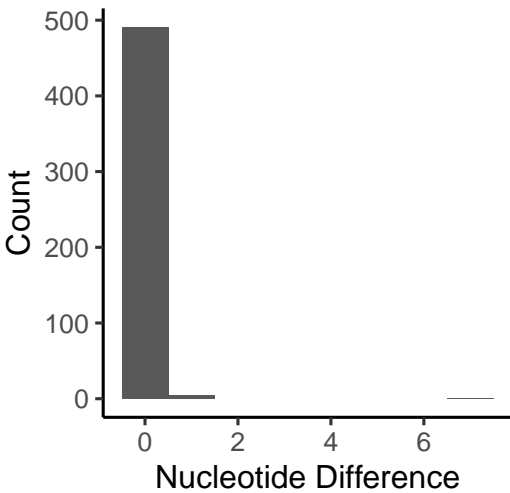
TRBV5-8*ap01

2021 sequences assigned
2000 (99%) exact matches, in which:
1976 unique CDR3
13 unique J



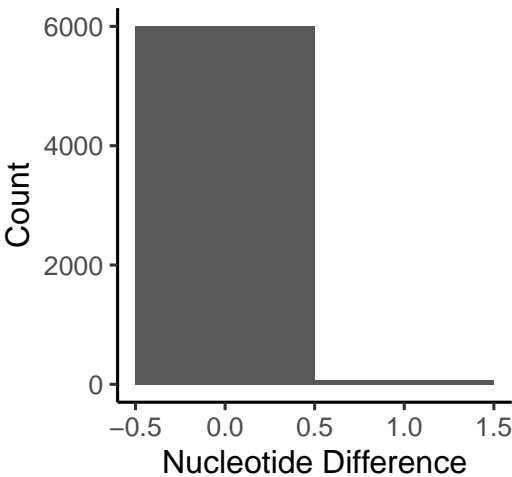
TRBV6-7*ap01

496 sequences assigned
491 (99%) exact matches, in which:
478 unique CDR3
13 unique J



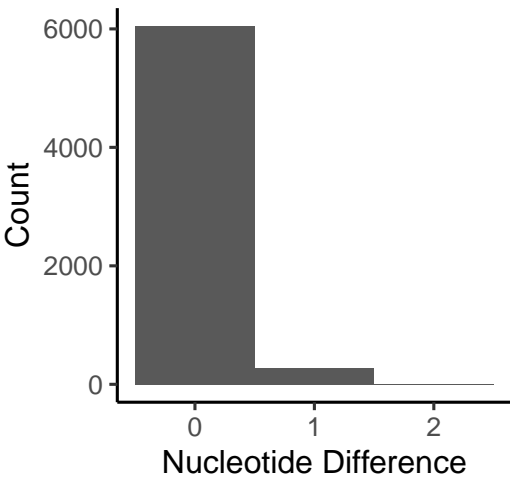
TRBV5-6*ap01

6074 sequences assigned
6006 (98.9%) exact matches, in which:
5868 unique CDR3
13 unique J



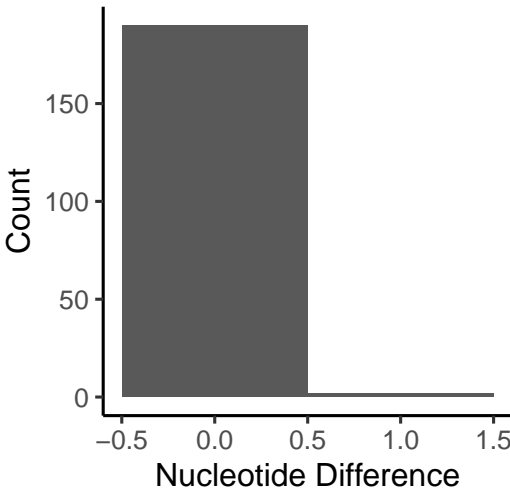
TRBV6-1*ap01

6324 sequences assigned
6048 (95.6%) exact matches, in which:
5943 unique CDR3
13 unique J



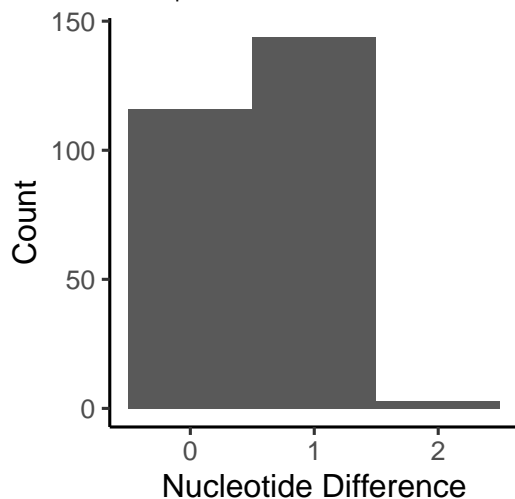
TRBV6-8*ap01

192 sequences assigned
190 (99%) exact matches, in which:
185 unique CDR3
12 unique J



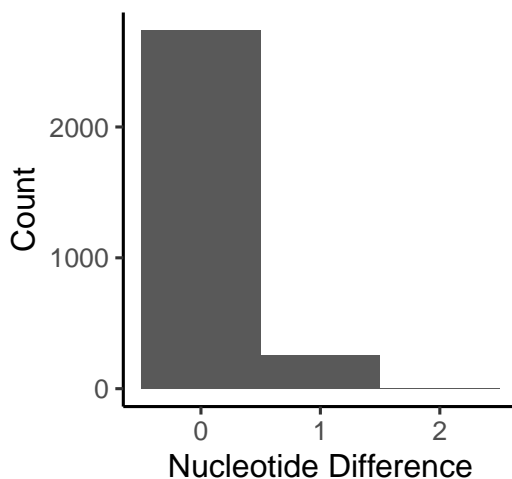
TRBV6-9*ap01

263 sequences assigned
116 (44.1%) exact matches, in which:
115 unique CDR3
13 unique J



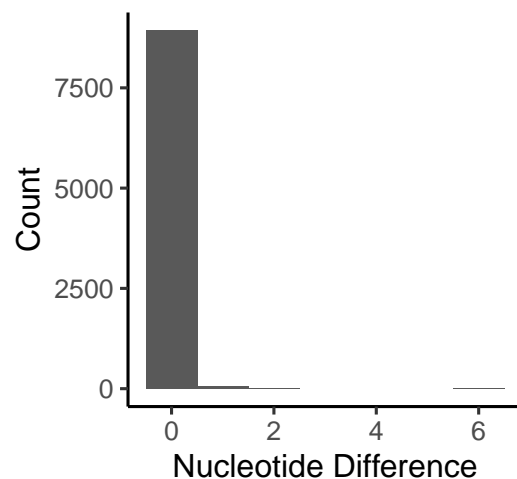
TRBV6-56*ap02

2999 sequences assigned
2738 (91.3%) exact matches, in which:
2684 unique CDR3
13 unique J



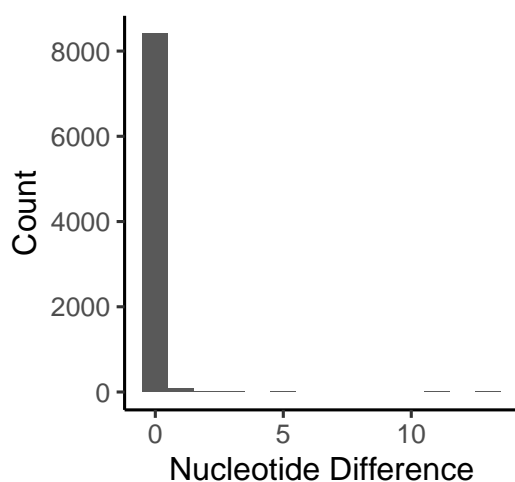
TRBV7-2*ap01

9009 sequences assigned
8932 (99.1%) exact matches, in which:
8790 unique CDR3
13 unique J



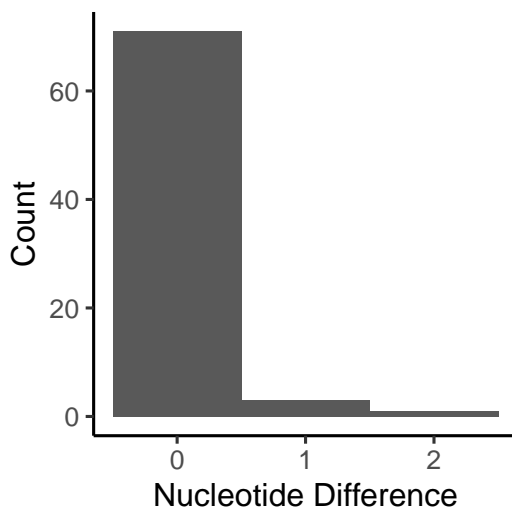
TRBV6-23*ap01

8492 sequences assigned
8407 (99%) exact matches, in which:
8218 unique CDR3
13 unique J



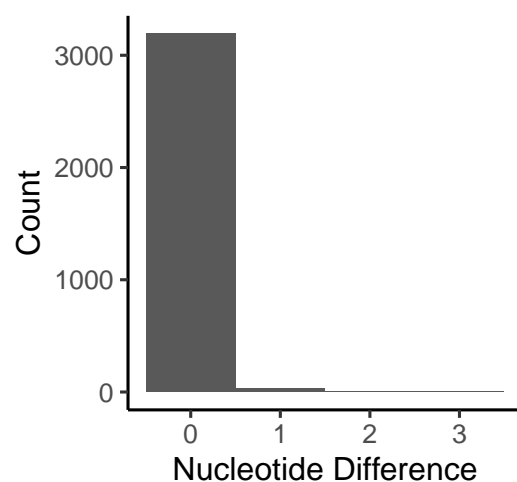
TRBV7-1*ap01_G291C_T

75 sequences assigned
71 (94.7%) exact matches, in which:
71 unique CDR3
12 unique J



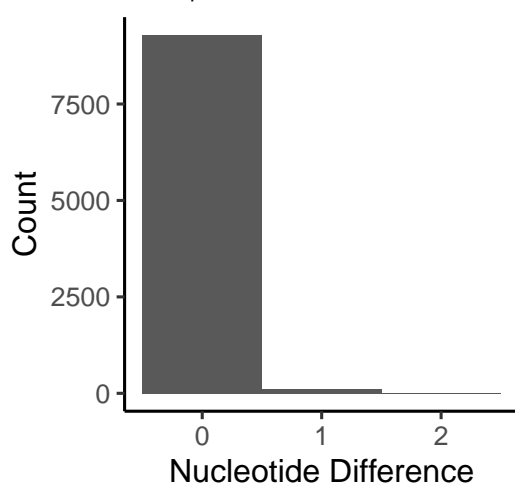
TRBV7-3*ap01

3221 sequences assigned
3192 (99.1%) exact matches, in which:
3160 unique CDR3
13 unique J



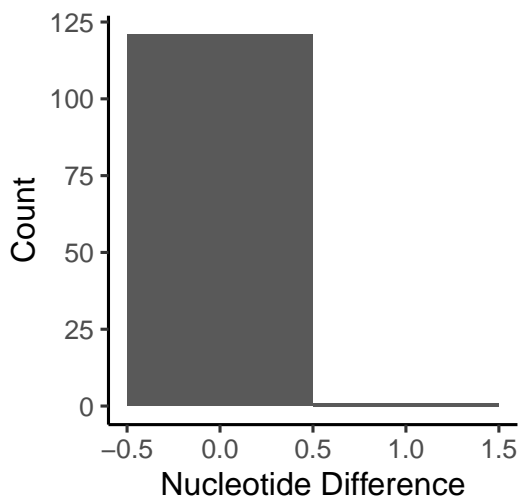
TRBV6-56*ap01

9402 sequences assigned
9288 (98.8%) exact matches, in which:
9103 unique CDR3
13 unique J



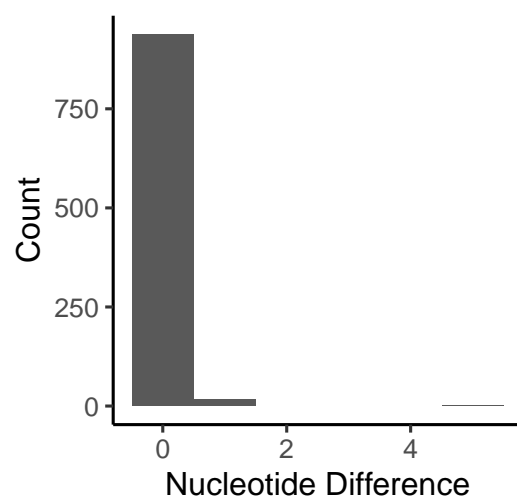
TRBV7-1*ap01_G291C_

122 sequences assigned
121 (99.2%) exact matches, in which:
120 unique CDR3
12 unique J



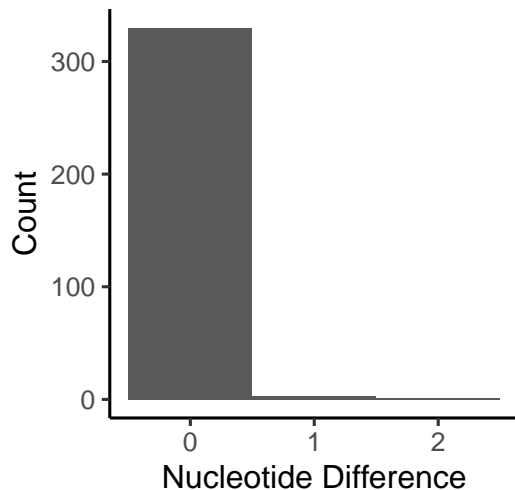
TRBV7-3*ap03

955 sequences assigned
938 (98.2%) exact matches, in which:
919 unique CDR3
13 unique J



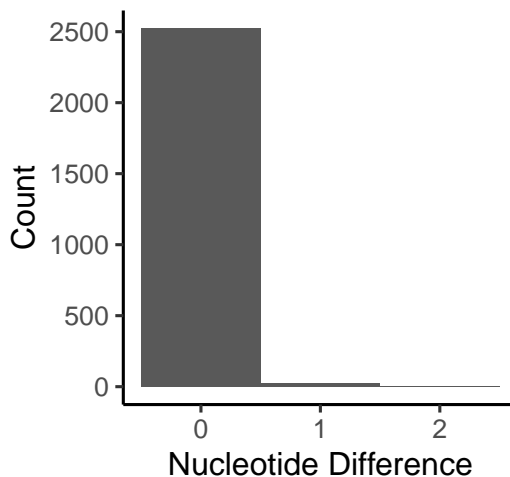
TRBV7-4*ap01

334 sequences assigned
330 (98.8%) exact matches, in which:
322 unique CDR3
13 unique J



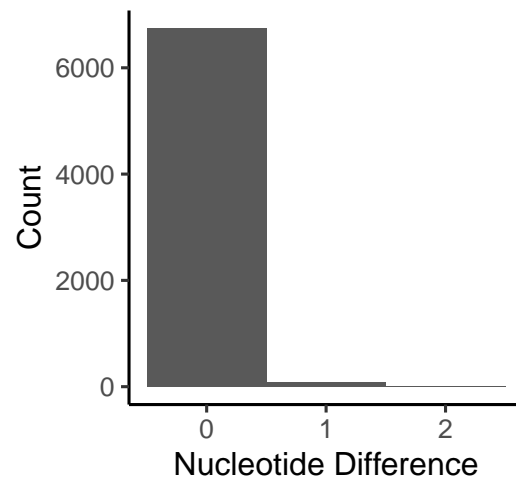
TRBV7-8*ap01

2547 sequences assigned
2523 (99.1%) exact matches, in which:
2464 unique CDR3
13 unique J



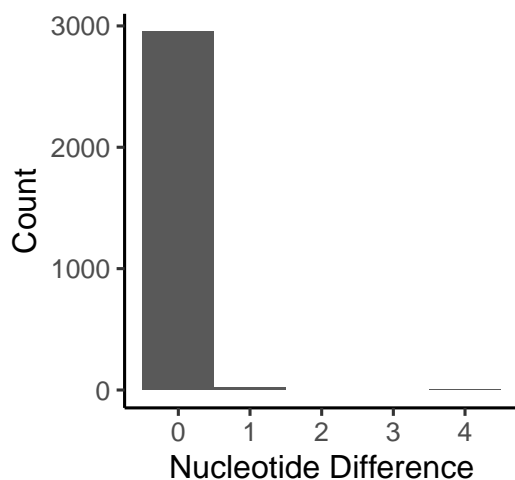
TRBV29-1*ap01

6830 sequences assigned
6741 (98.7%) exact matches, in which:
6629 unique CDR3
13 unique J



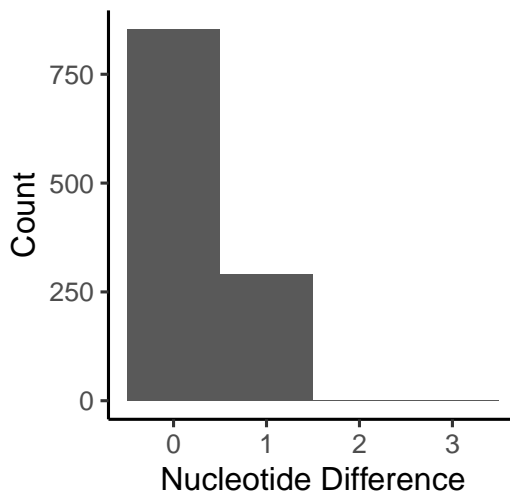
TRBV7-6*ap01

2976 sequences assigned
2952 (99.2%) exact matches, in which:
2906 unique CDR3
13 unique J



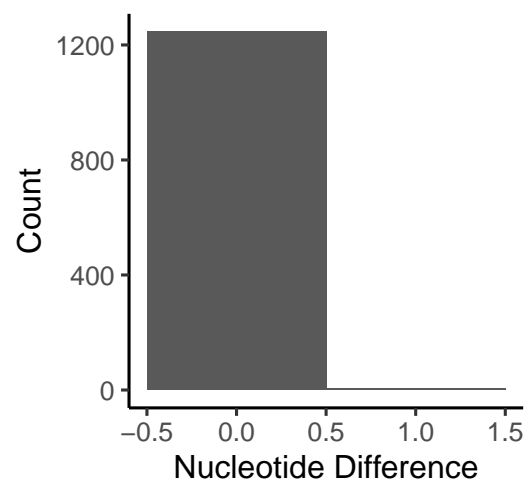
TRBV7-8*ap03

1146 sequences assigned
854 (74.5%) exact matches, in which:
837 unique CDR3
13 unique J



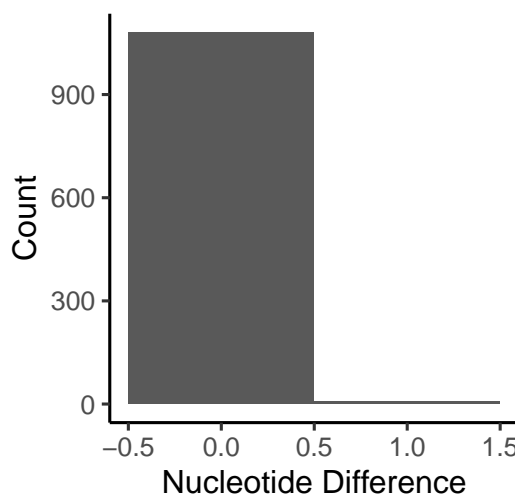
TRBV29-1*ap02

1251 sequences assigned
1246 (99.6%) exact matches, in which:
1231 unique CDR3
13 unique J



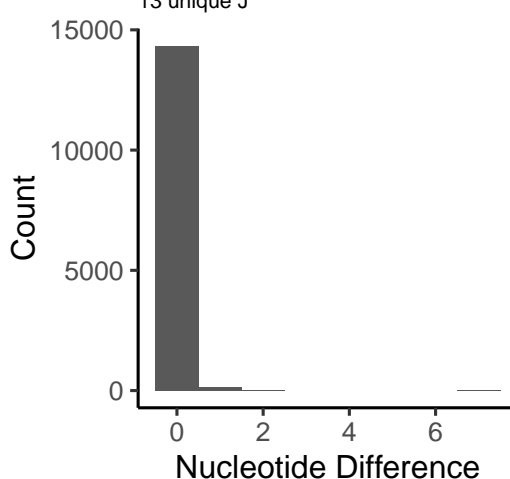
TRBV7-7*ap01

1088 sequences assigned
1081 (99.4%) exact matches, in which:
1061 unique CDR3
13 unique J

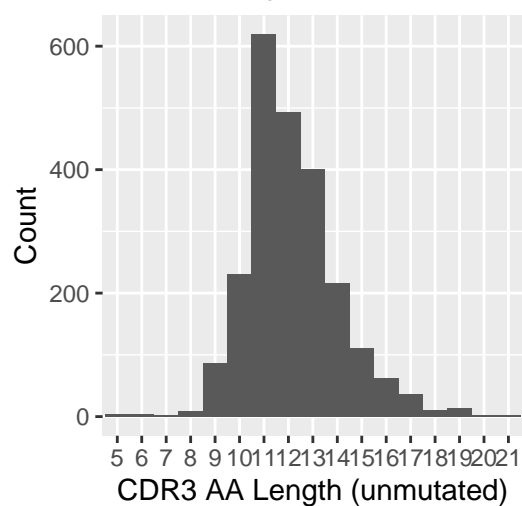


TRBV7-9*ap01

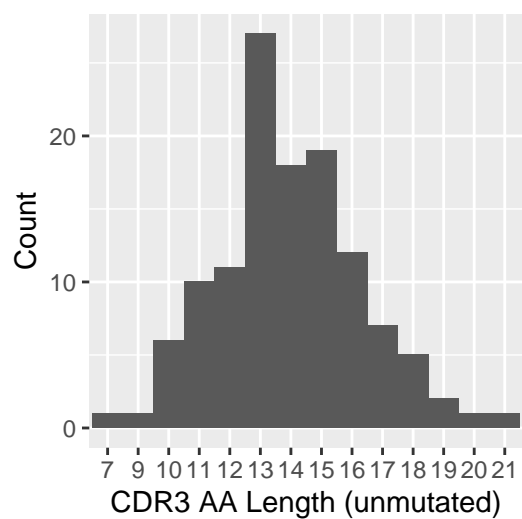
14466 sequences assigned
14337 (99.1%) exact matches, in which:
14126 unique CDR3
13 unique J



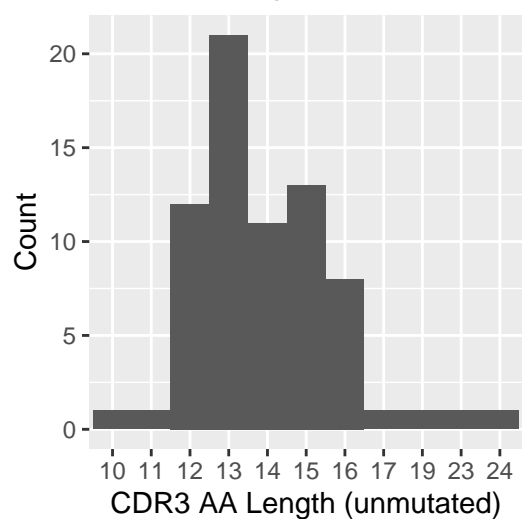
TRBV30*ap01_G298A



TRBV7-1*ap01_G291C_T296C_C314T



TRBV7-1*ap01_G291C_T296C





[illegible]