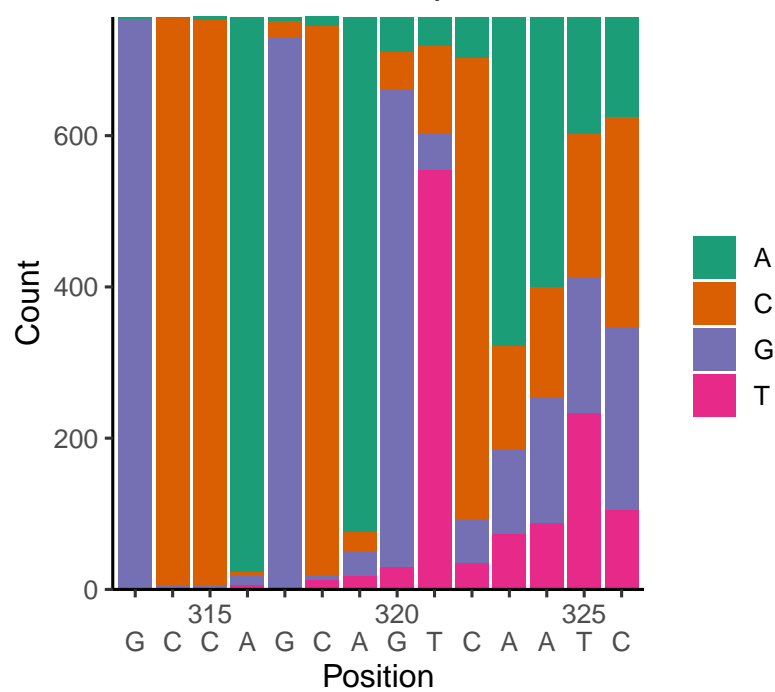
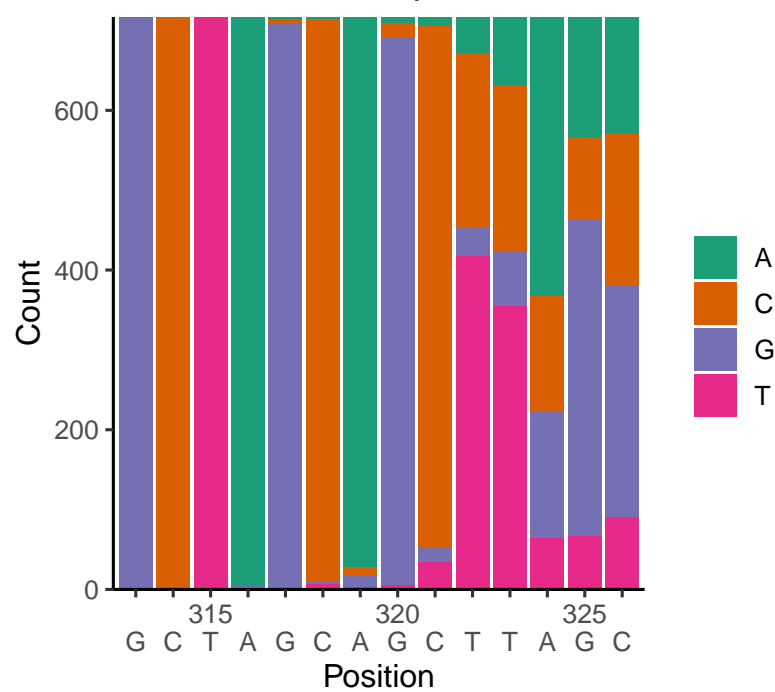


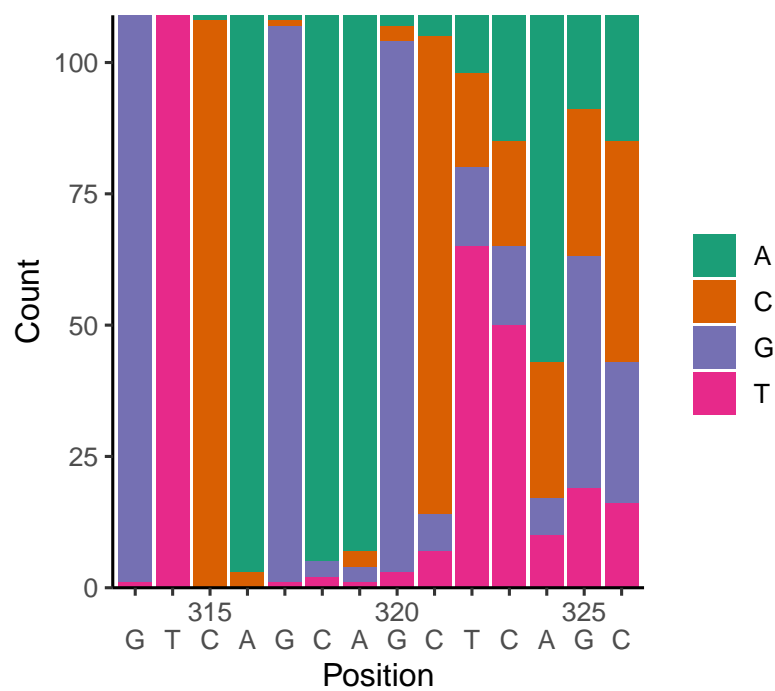
Gene TRBV23-1*ap01_T304C



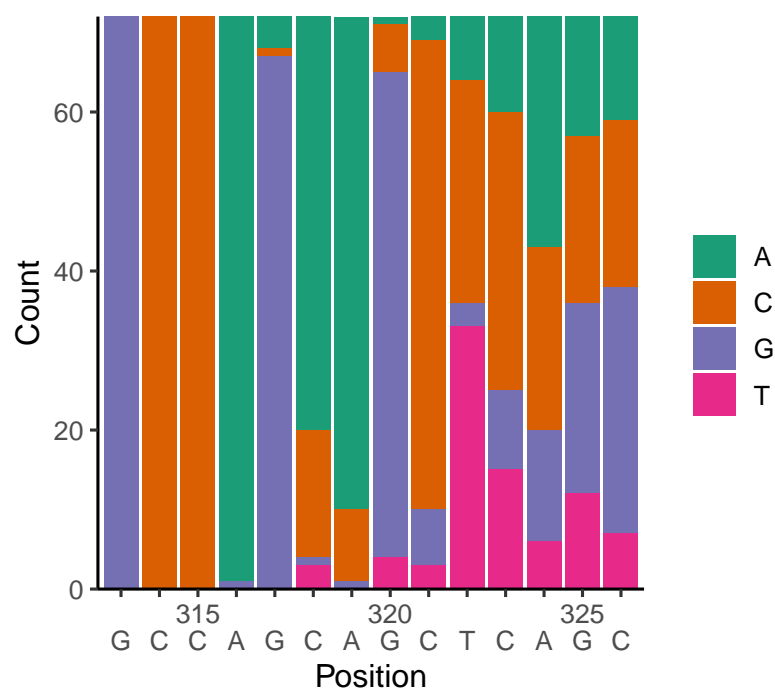
Gene TRBV7-7*ap01_C315T



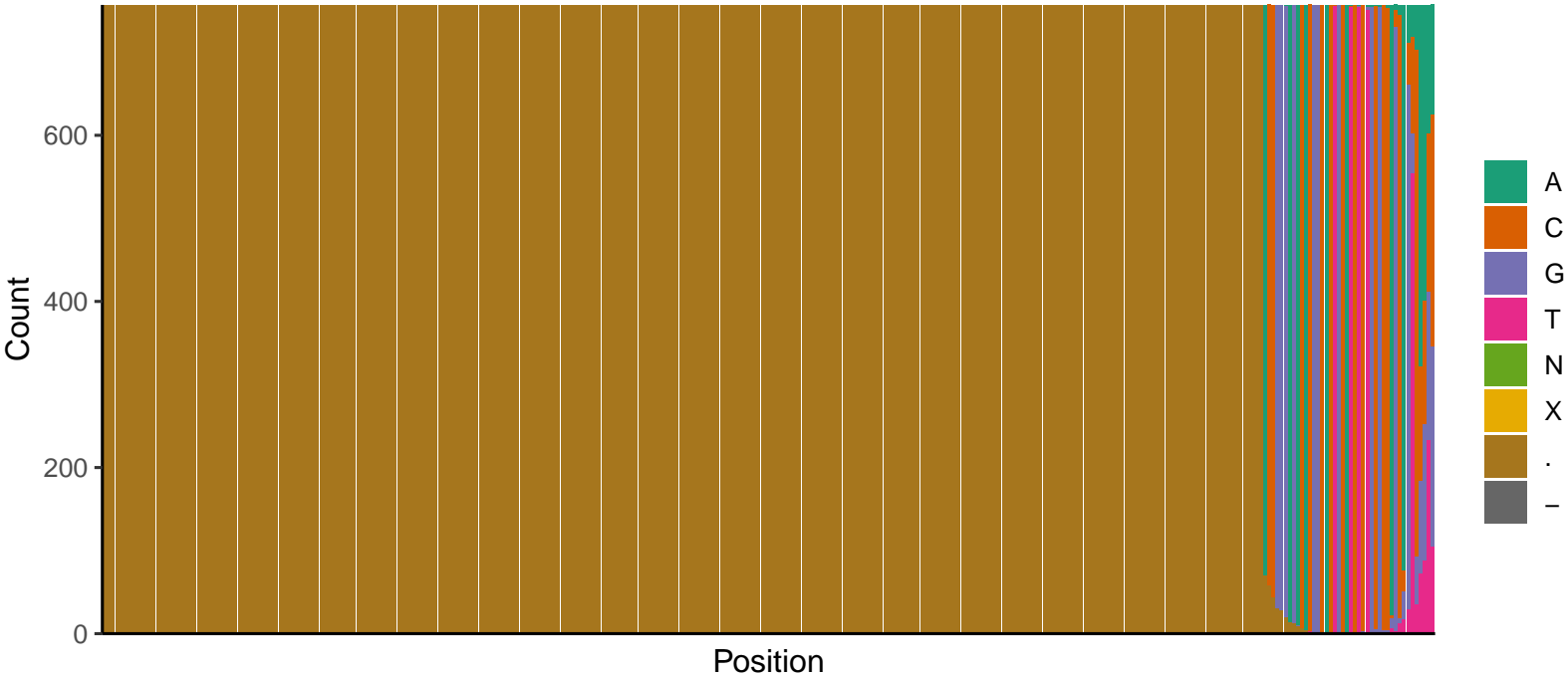
Gene TRBV7-1*ap01_T296C_C314T



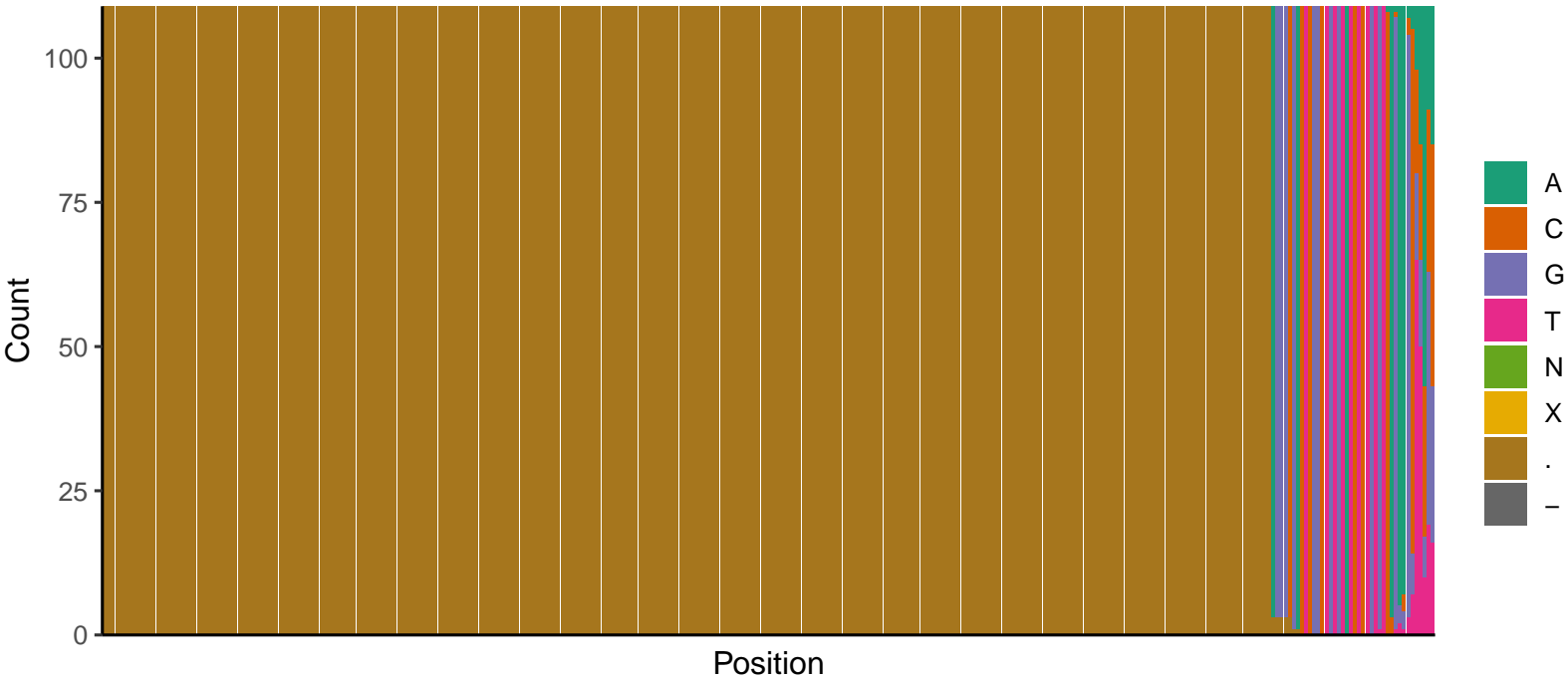
Gene TRBV7-1*ap01_T296C



Gene TRBV23-1*ap01_T304C



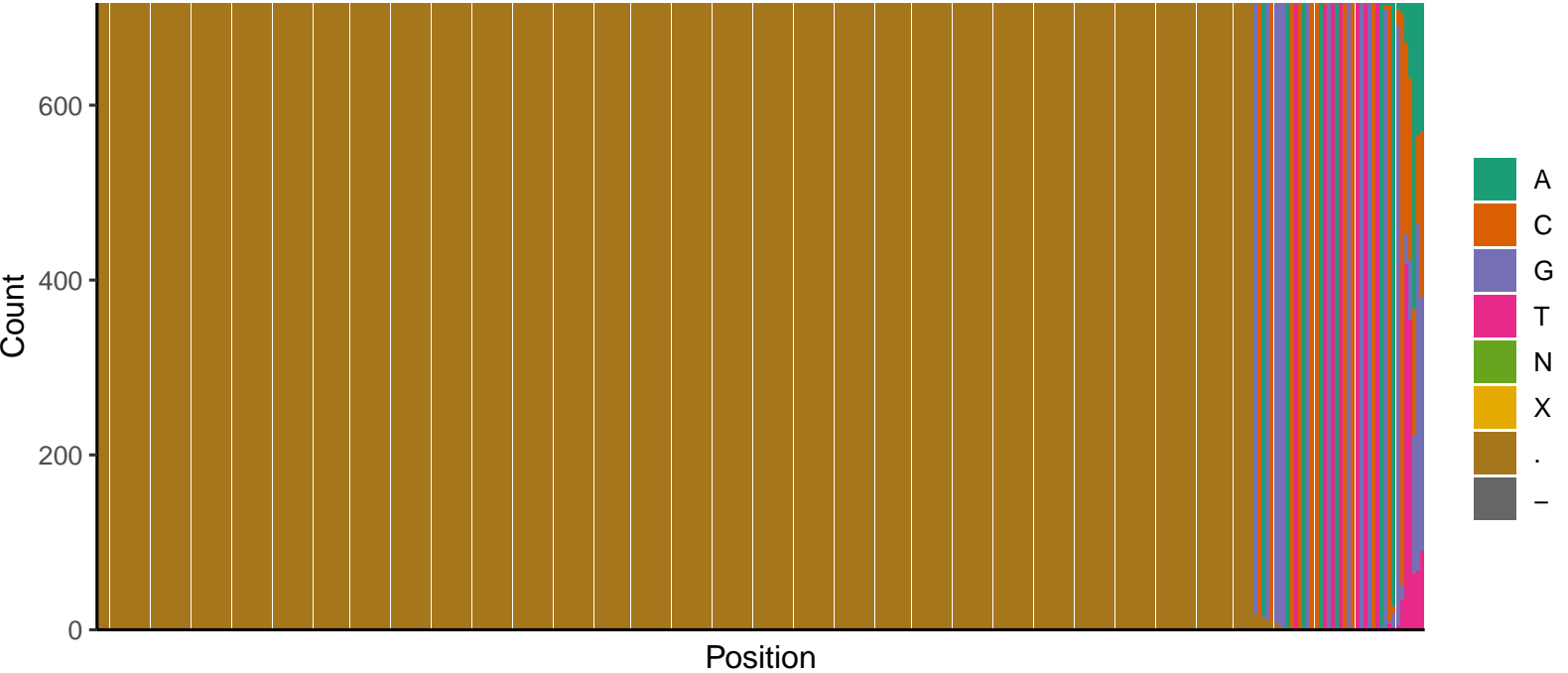
Gene TRBV7-1*ap01_T296C_C314T



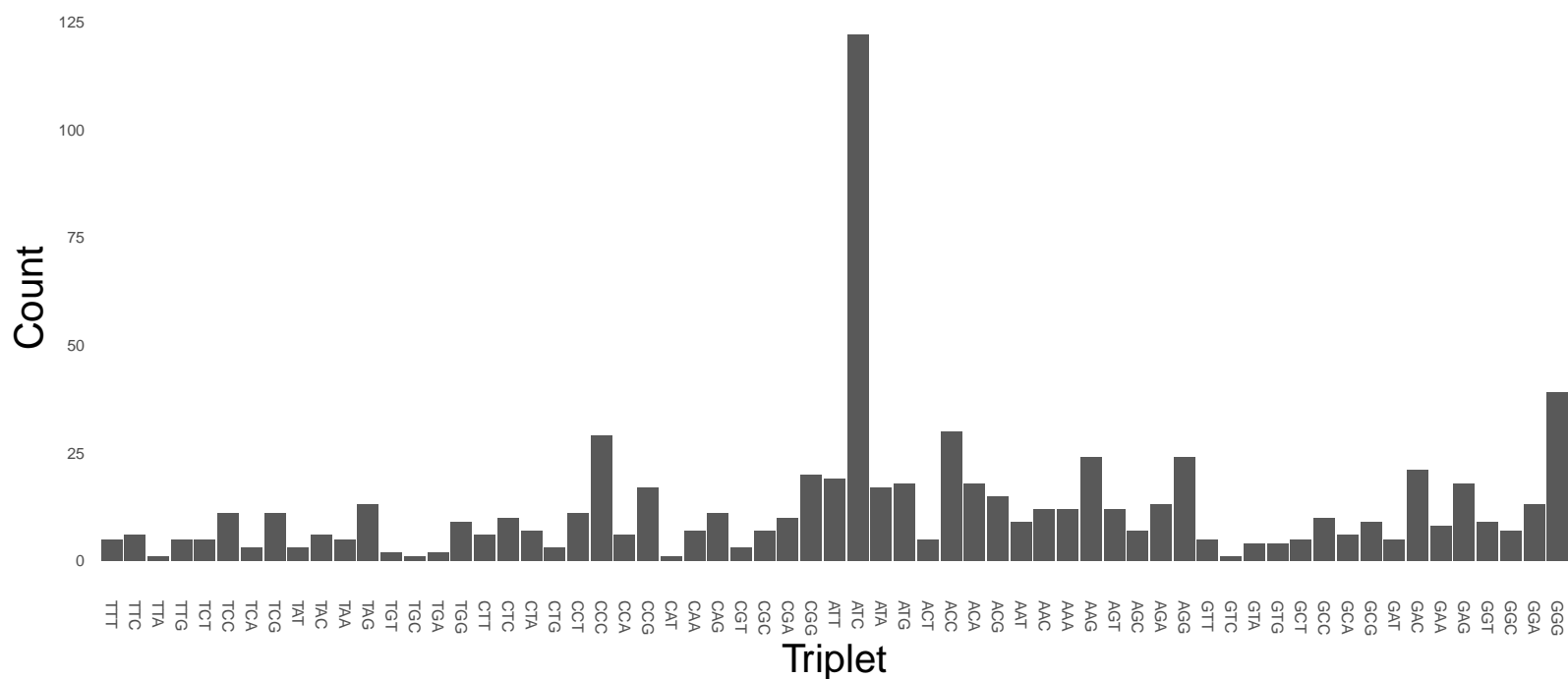
Gene TRBV7-1*ap01_T296C



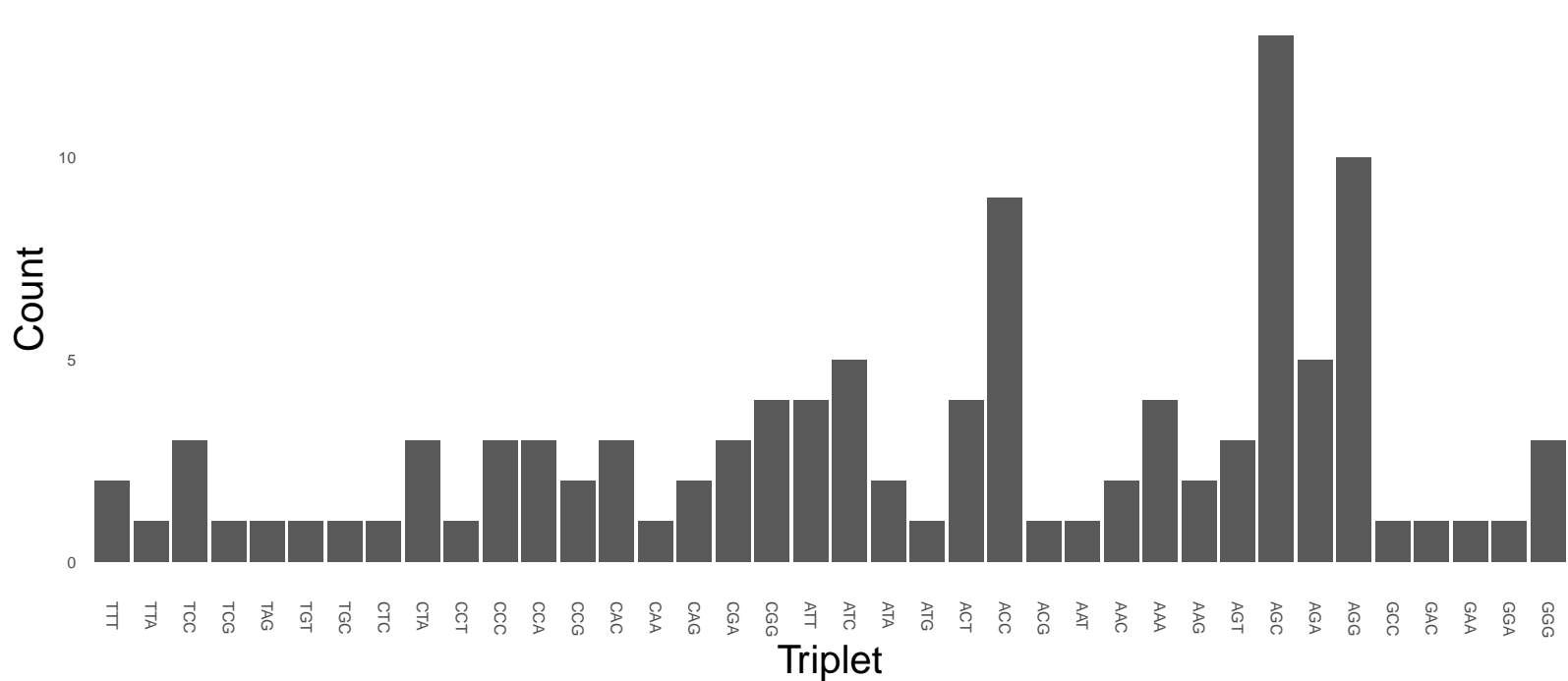
Gene TRBV7-7*ap01_C315T



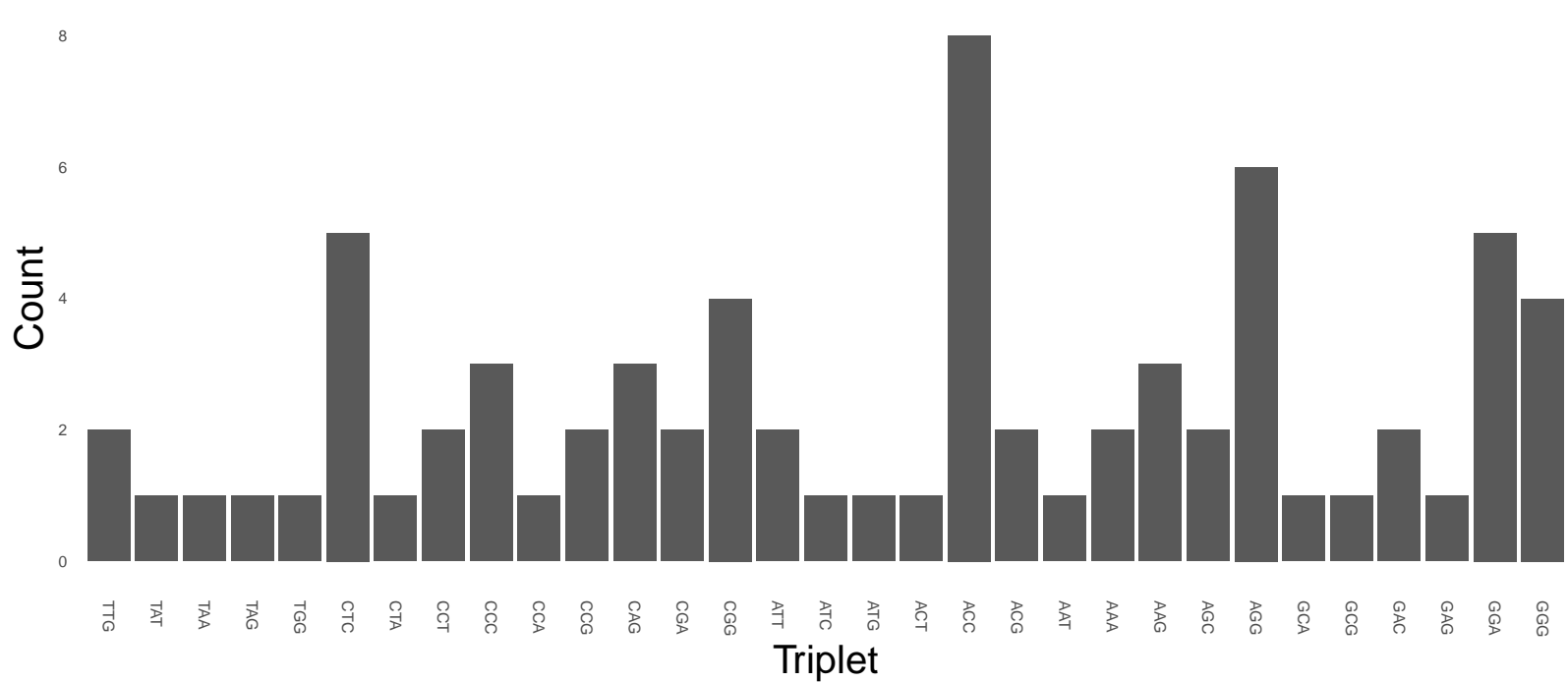
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



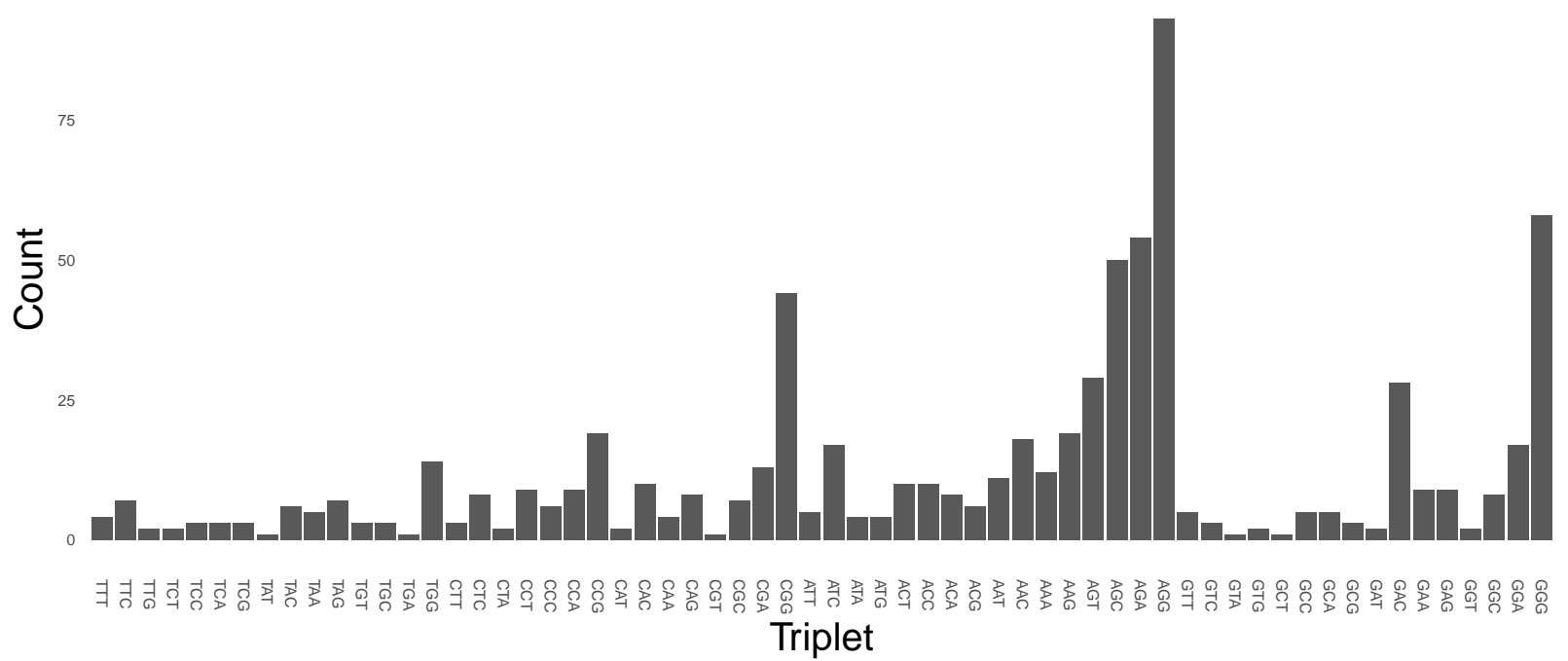
TRBV7-1*ap01_T296C_C314T- Final 3 nucleotides as a triplet



TRBV7-1*ap01_T296C- Final 3 nucleotides as a triplet

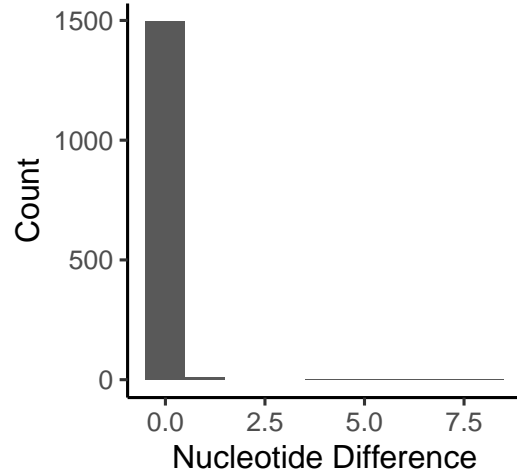


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



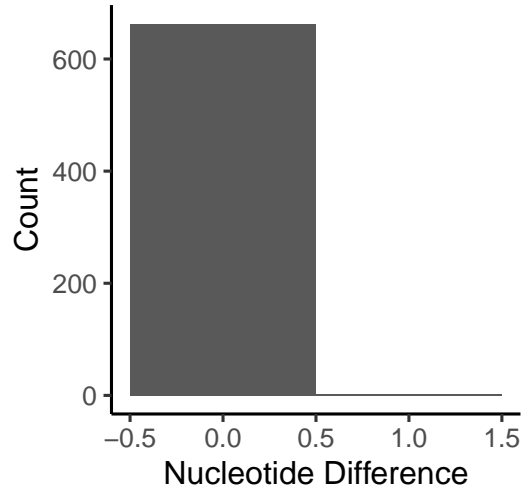
TRBV10-1*ap01

1519 sequences assigned
1496 (98.5%) exact matches, in which:
1469 unique CDR3
13 unique J



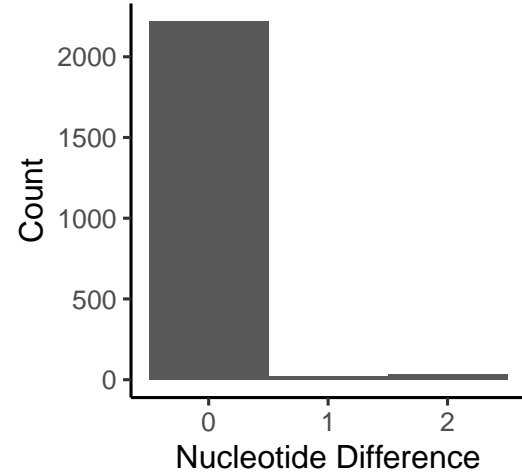
TRBV10-2*ap01

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



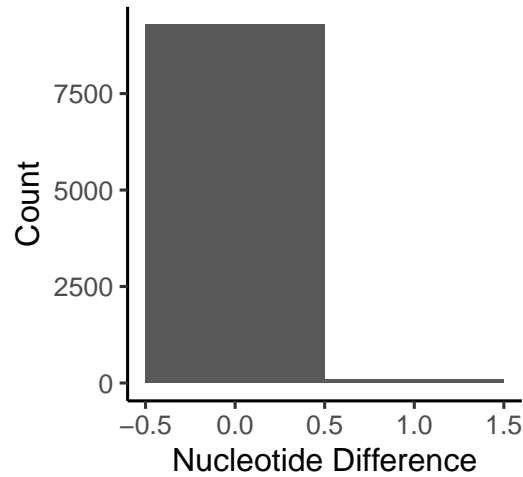
TRBV13*ap01

2276 sequences assigned
2219 (97.5%) exact matches, in which:
2154 unique CDR3
13 unique J



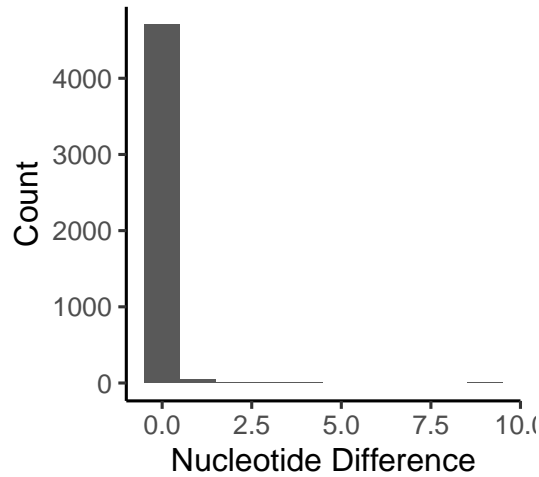
TRBV20-1*ap01

9375 sequences assigned
9284 (99%) exact matches, in which:
9138 unique CDR3
13 unique J



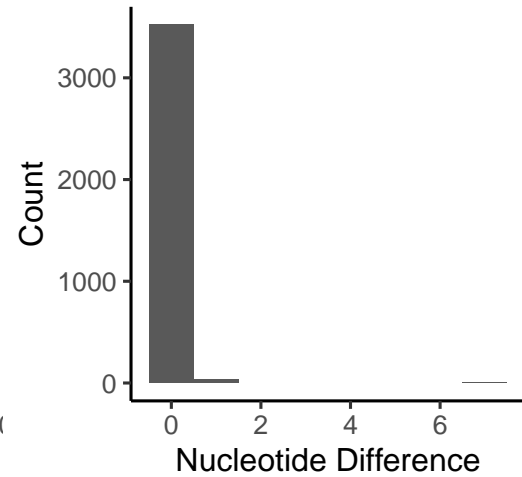
TRBV10-3*ap01

4764 sequences assigned
4703 (98.7%) exact matches, in which:
4627 unique CDR3
13 unique J



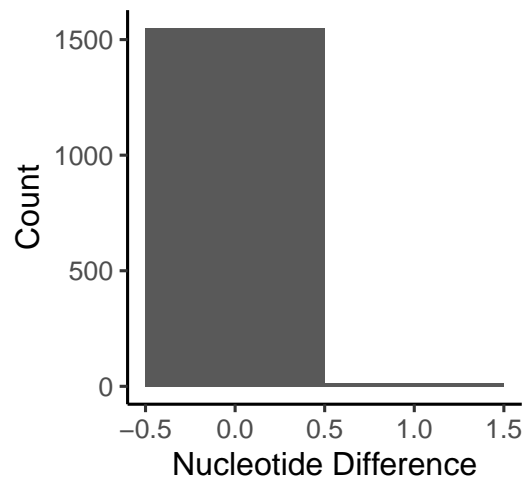
TRBV14*ap01

3559 sequences assigned
3522 (99%) exact matches, in which:
3466 unique CDR3
13 unique J



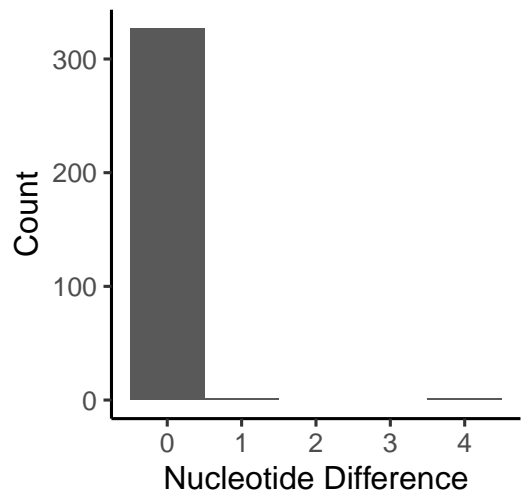
TRBV20-1*ap02

1563 sequences assigned
1550 (99.2%) exact matches, in which:
1521 unique CDR3
13 unique J



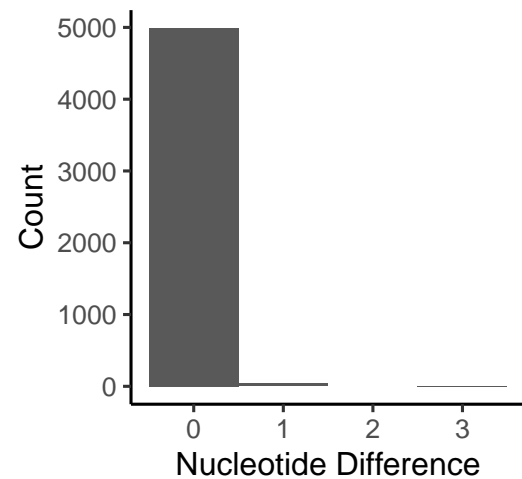
TRBV1*ap01

329 sequences assigned
327 (99.4%) exact matches, in which:
317 unique CDR3
13 unique J



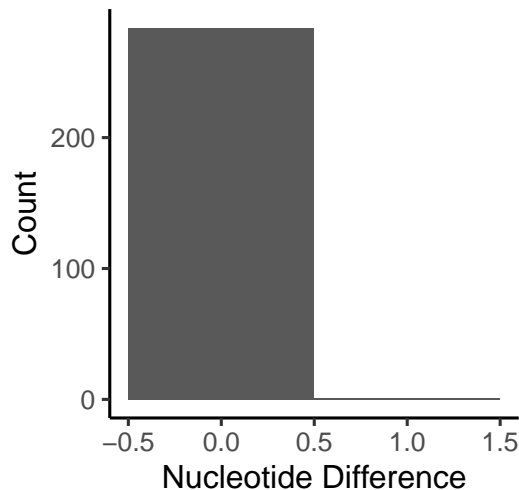
TRBV15*ap02

5029 sequences assigned
4991 (99.2%) exact matches, in which:
4868 unique CDR3
13 unique J



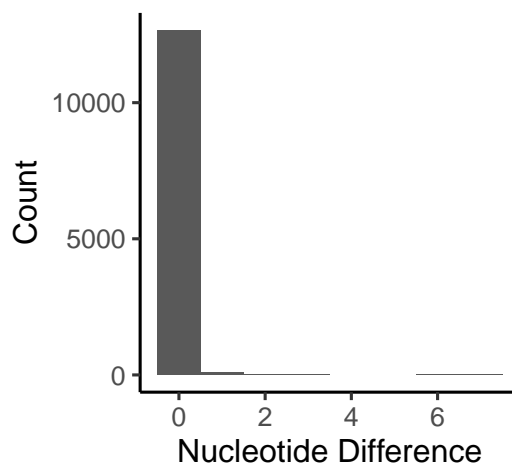
TRBV16*ap01

285 sequences assigned
284 (99.6%) exact matches, in which:
284 unique CDR3
13 unique J



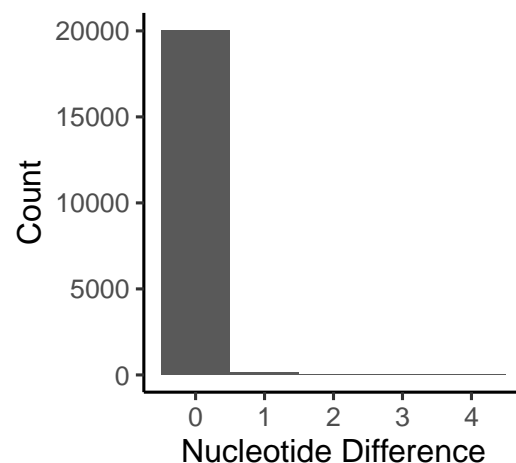
TRBV19*ap01

12774 sequences assigned
12663 (99.1%) exact matches, in which:
12536 unique CDR3
13 unique J



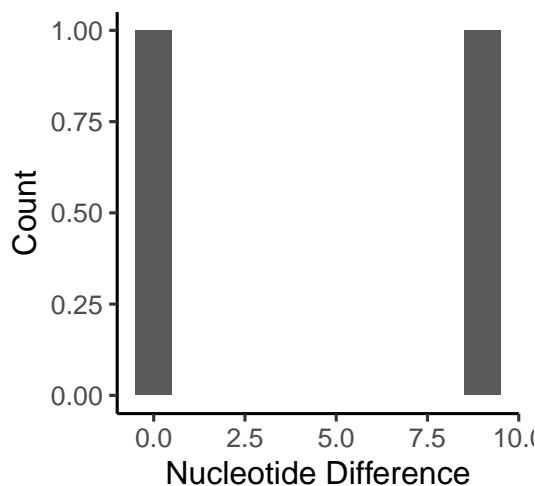
TRBV28*ap01

20182 sequences assigned
20042 (99.3%) exact matches, in which:
19747 unique CDR3
13 unique J



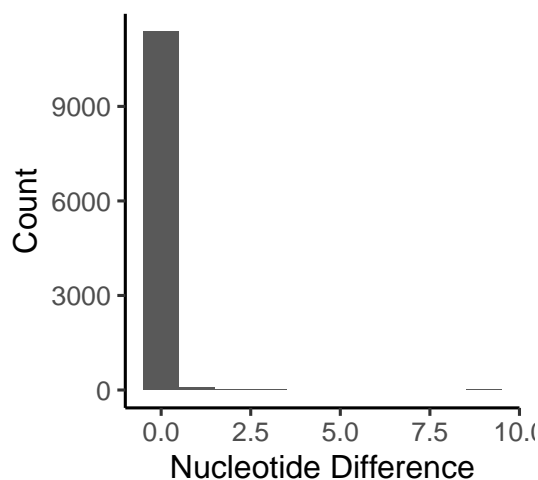
TRBV17*ap01

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



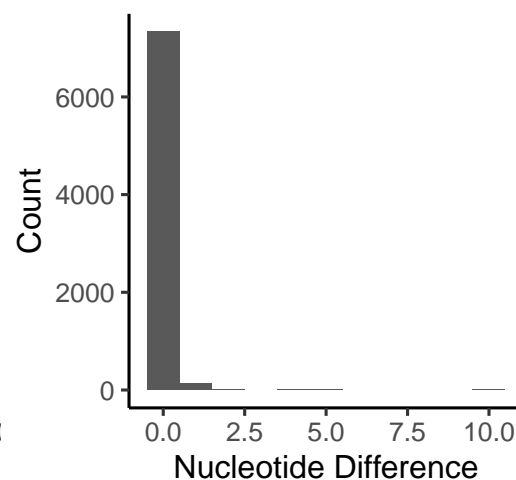
TRBV2*ap01

11468 sequences assigned
11370 (99.1%) exact matches, in which:
11163 unique CDR3
13 unique J



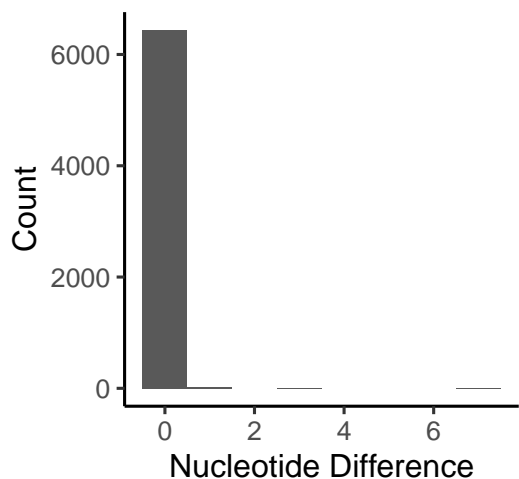
TRBV30*ap01

7472 sequences assigned
7335 (98.2%) exact matches, in which:
7159 unique CDR3
13 unique J



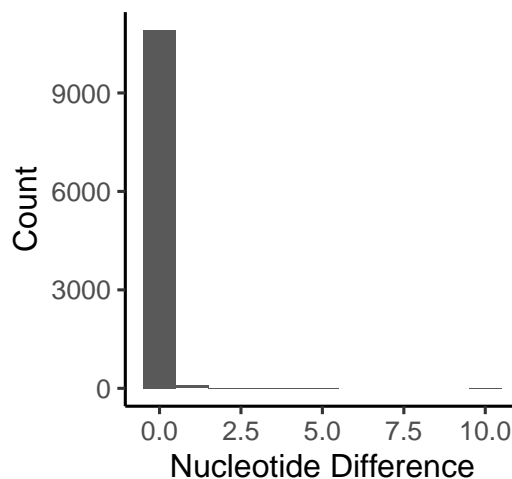
TRBV18*ap01

6463 sequences assigned
6439 (99.6%) exact matches, in which:
6365 unique CDR3
13 unique J



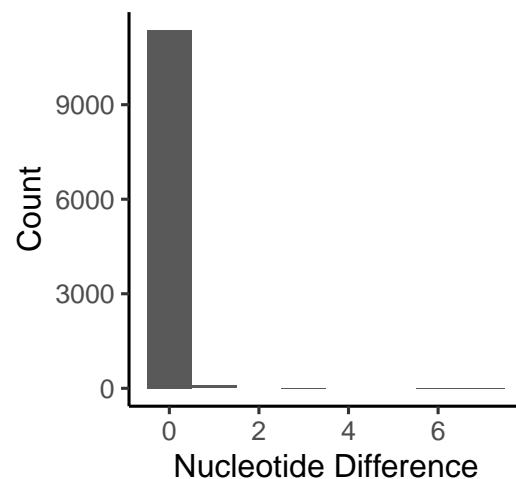
TRBV27*ap01

11019 sequences assigned
10917 (99.1%) exact matches, in which:
10690 unique CDR3
13 unique J



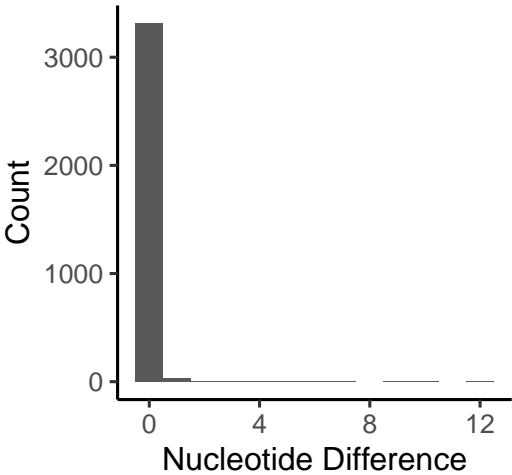
TRBV9*ap01

11467 sequences assigned
11368 (99.1%) exact matches, in which:
11221 unique CDR3
13 unique J



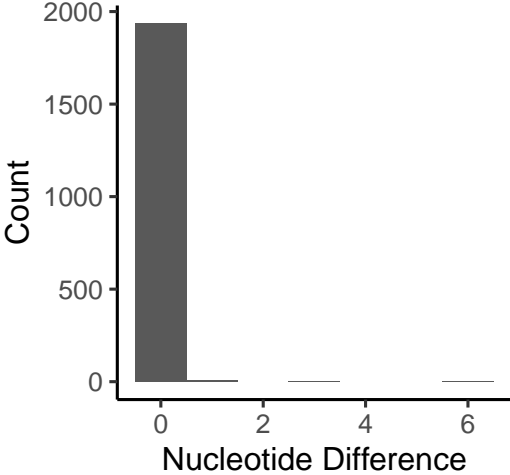
TRBV21-1*ap01

3361 sequences assigned
3313 (98.6%) exact matches, in which:
3291 unique CDR3
13 unique J



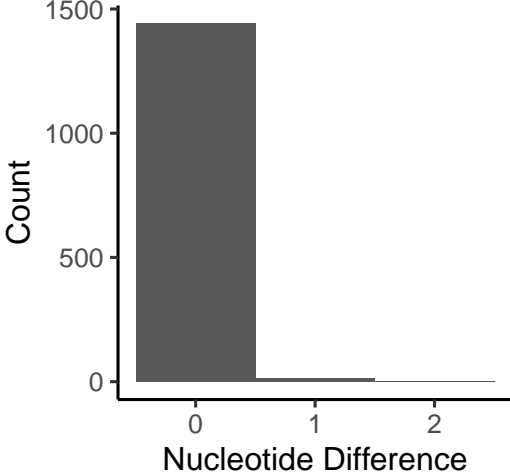
TRBV11-3*ap01

1947 sequences assigned
1936 (99.4%) exact matches, in which:
1922 unique CDR3
13 unique J



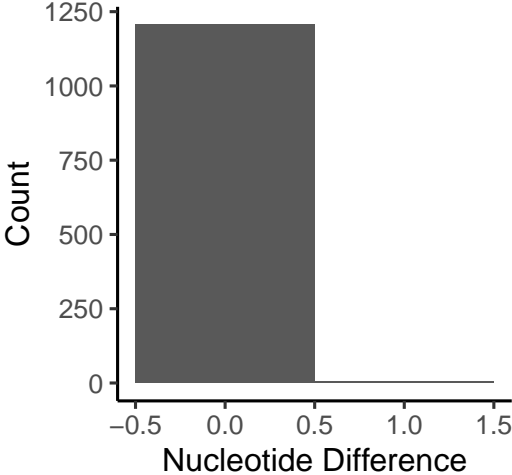
TRBV12-5*ap01

1457 sequences assigned
1442 (99%) exact matches, in which:
1430 unique CDR3
13 unique J



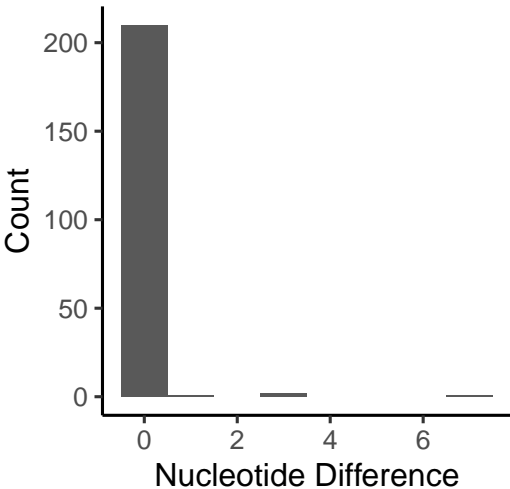
TRBV11-1*ap01

1211 sequences assigned
1206 (99.6%) exact matches, in which:
1194 unique CDR3
13 unique J



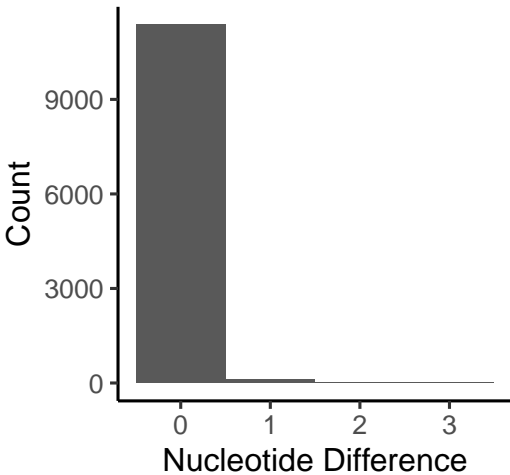
TRBV12-1*ap01

214 sequences assigned
210 (98.1%) exact matches, in which:
209 unique CDR3
13 unique J



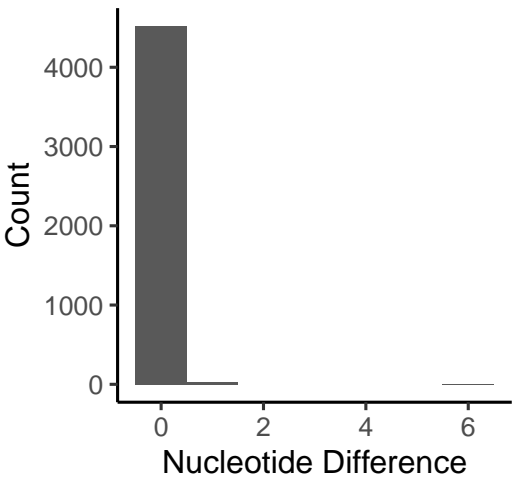
TRBV12-34*ap01

11488 sequences assigned
11370 (99%) exact matches, in which:
11172 unique CDR3
13 unique J



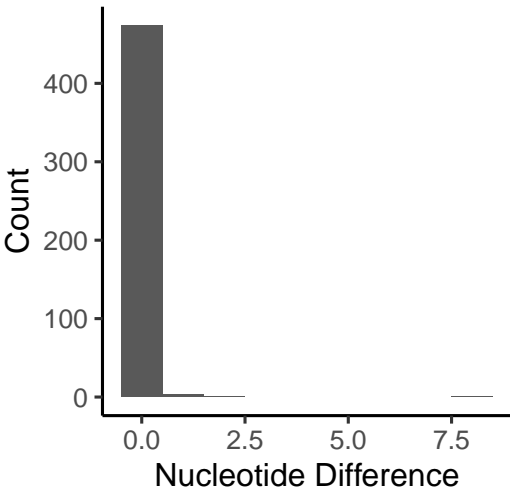
TRBV11-2*ap01

4549 sequences assigned
4520 (99.4%) exact matches, in which:
4472 unique CDR3
13 unique J



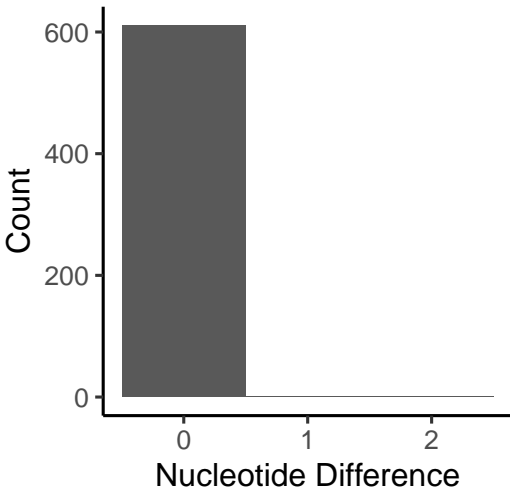
TRBV12-2*ap01

479 sequences assigned
474 (99%) exact matches, in which:
464 unique CDR3
13 unique J



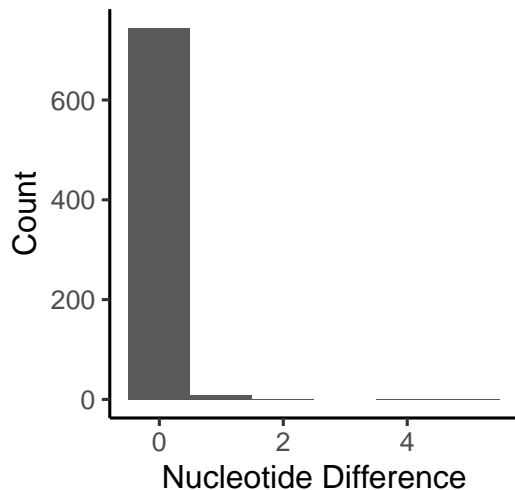
TRBV23-1*ap01

613 sequences assigned
611 (99.7%) exact matches, in which:
607 unique CDR3
13 unique J



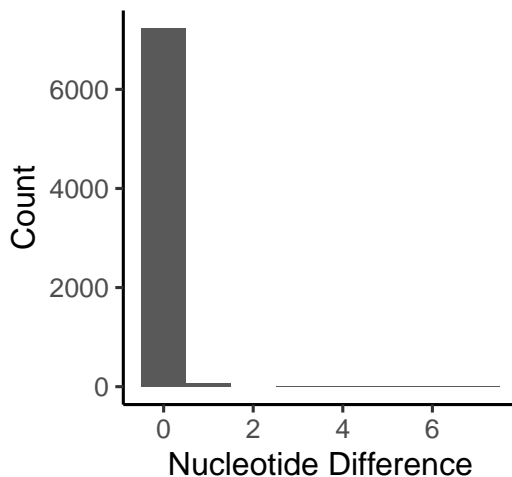
TRBV23-1*ap01_T304C

757 sequences assigned
745 (98.4%) exact matches, in which:
728 unique CDR3
13 unique J



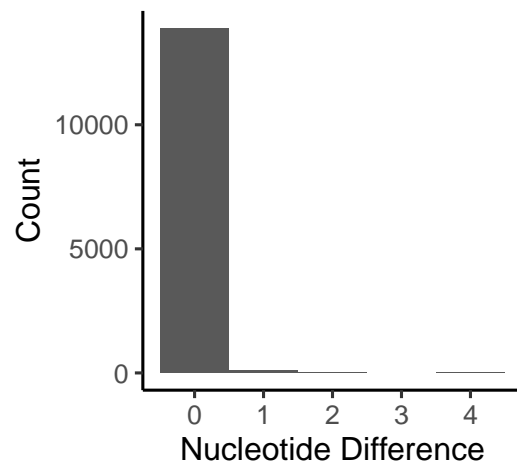
TRBV24-1*ap01

7315 sequences assigned
7230 (98.8%) exact matches, in which:
7113 unique CDR3
13 unique J



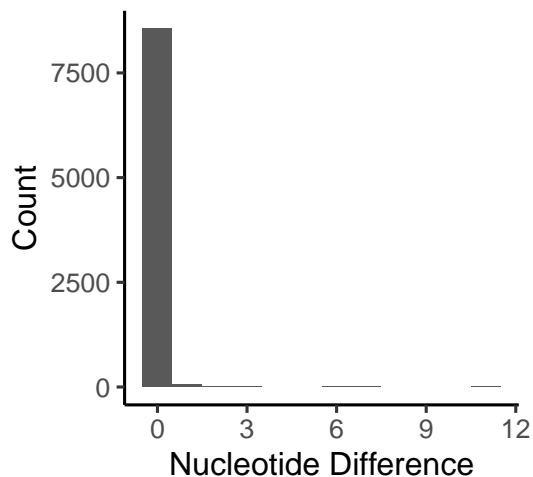
TRBV5-1*ap01

14011 sequences assigned
13893 (99.2%) exact matches, in which:
13537 unique CDR3
13 unique J



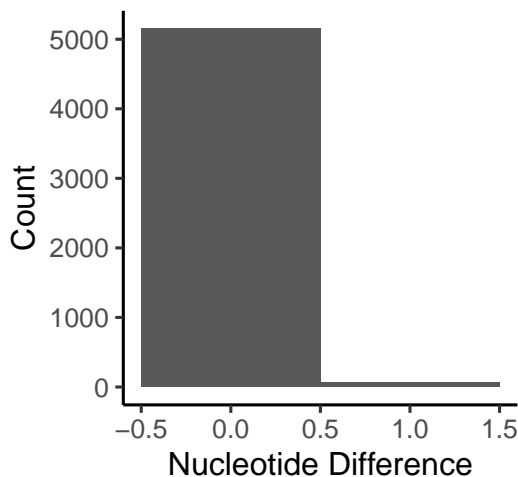
TRBV3-12*ap01

8626 sequences assigned
8555 (99.2%) exact matches, in which:
8461 unique CDR3
13 unique J



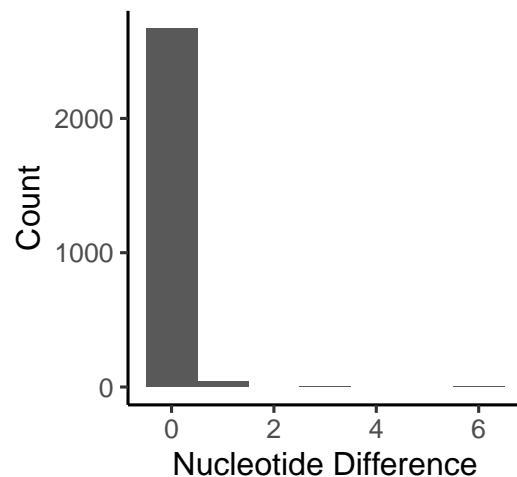
TRBV4-2*ap01

5213 sequences assigned
5151 (98.8%) exact matches, in which:
5056 unique CDR3
13 unique J



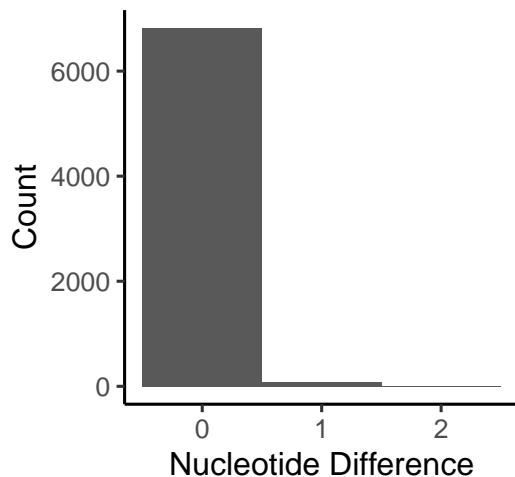
TRBV25-1*ap01

2708 sequences assigned
2668 (98.5%) exact matches, in which:
2616 unique CDR3
13 unique J



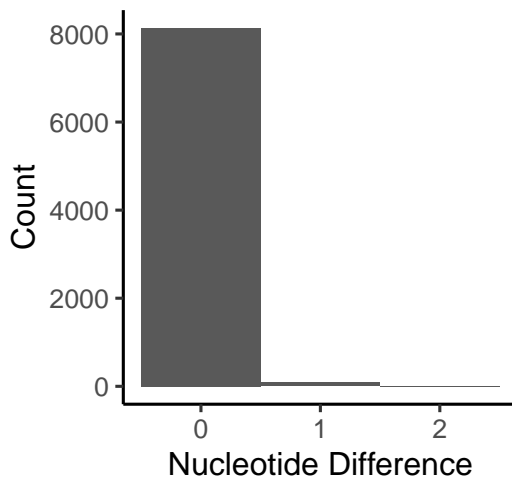
TRBV4-1*ap01

6901 sequences assigned
6820 (98.8%) exact matches, in which:
6672 unique CDR3
13 unique J



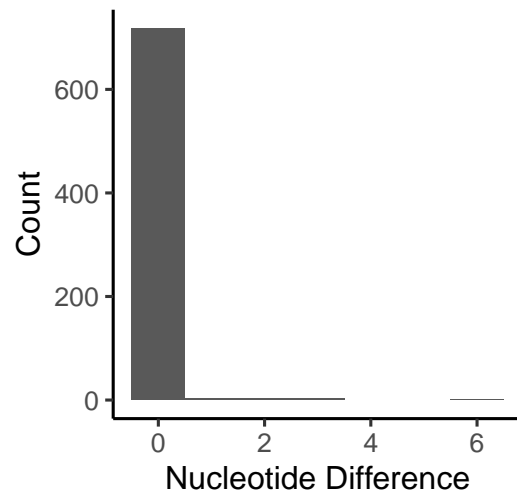
TRBV4-3*ap01

8223 sequences assigned
8134 (98.9%) exact matches, in which:
7984 unique CDR3
13 unique J



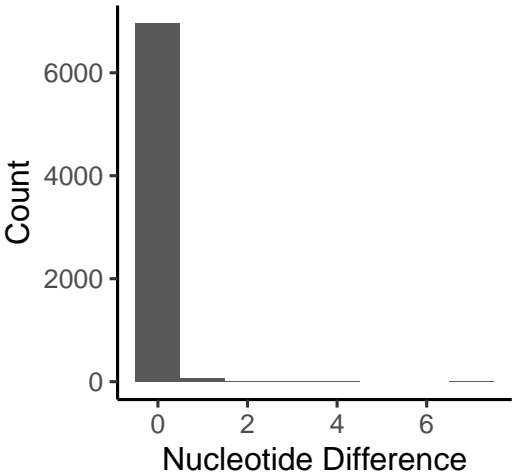
TRBV5-3*ap01

728 sequences assigned
718 (98.6%) exact matches, in which:
706 unique CDR3
13 unique J



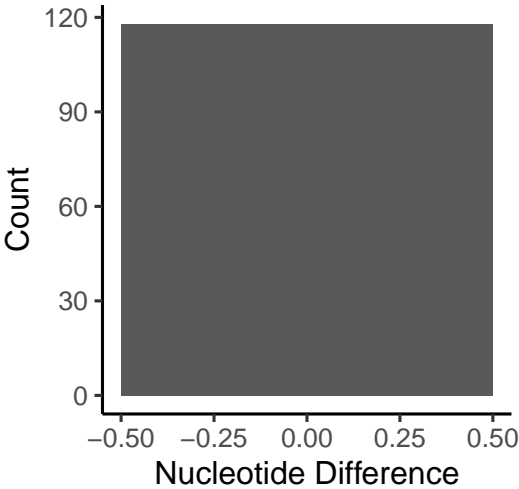
TRBV5-4*ap01

7041 sequences assigned
6959 (98.8%) exact matches, in which:
6813 unique CDR3
13 unique J



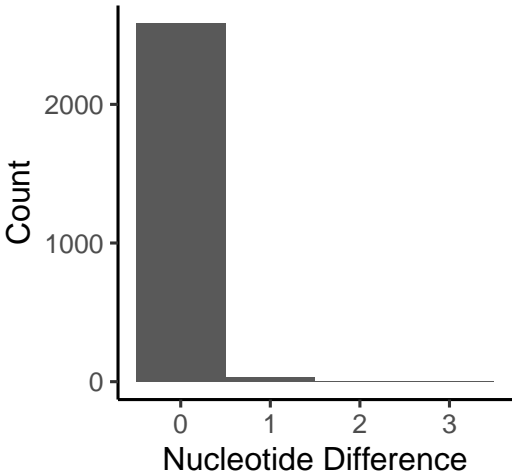
TRBV5-7*ap01

118 sequences assigned
118 (100%) exact matches, in which:
116 unique CDR3
13 unique J



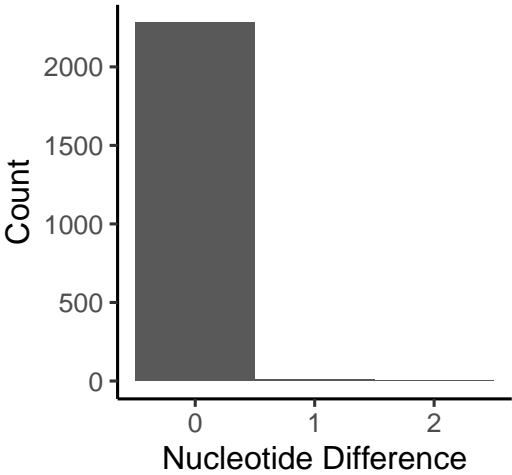
TRBV6-4*ap01

2620 sequences assigned
2584 (98.6%) exact matches, in which:
2555 unique CDR3
13 unique J



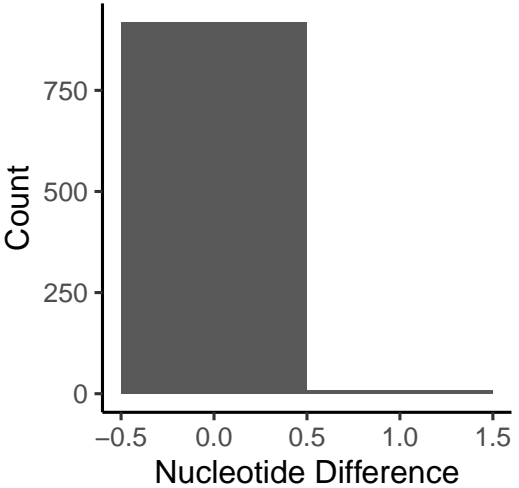
TRBV5-5*ap01

2293 sequences assigned
2281 (99.5%) exact matches, in which:
2270 unique CDR3
13 unique J



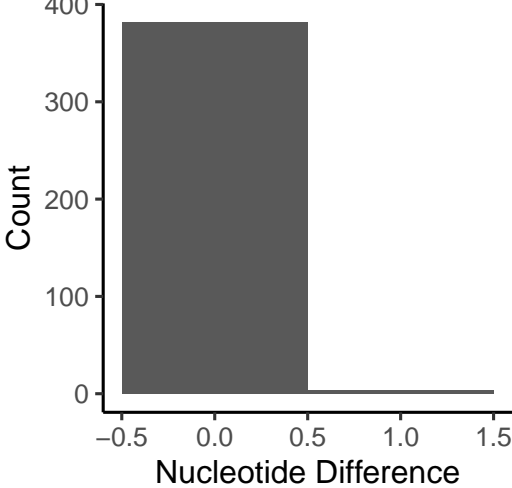
TRBV5-8*ap01

928 sequences assigned
919 (99%) exact matches, in which:
903 unique CDR3
13 unique J



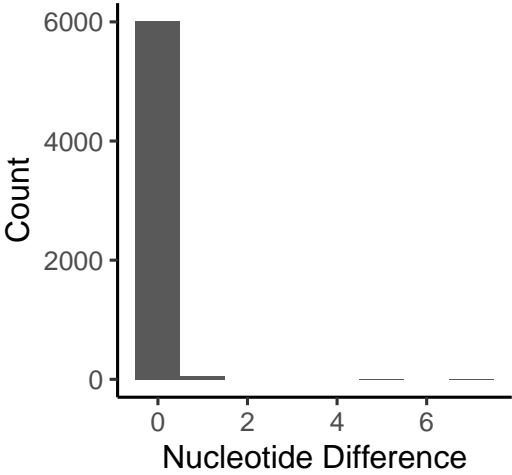
TRBV6-7*ap01

386 sequences assigned
382 (99%) exact matches, in which:
371 unique CDR3
13 unique J



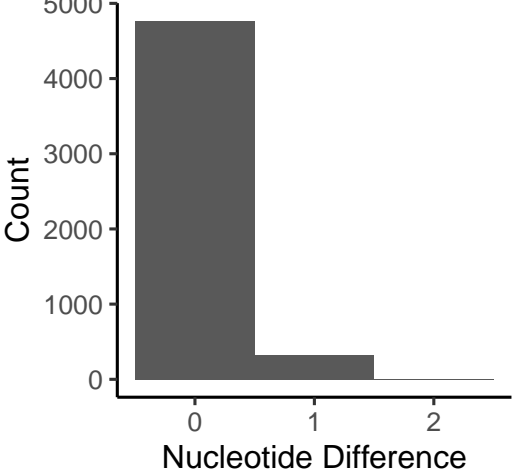
TRBV5-6*ap01

6077 sequences assigned
6014 (99%) exact matches, in which:
5838 unique CDR3
13 unique J



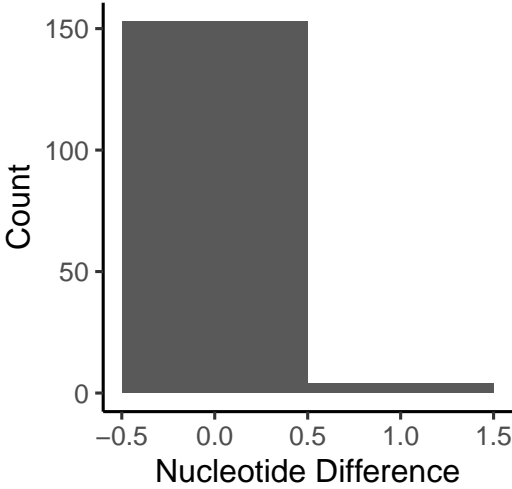
TRBV6-1*ap01

5092 sequences assigned
4765 (93.6%) exact matches, in which:
4654 unique CDR3
13 unique J



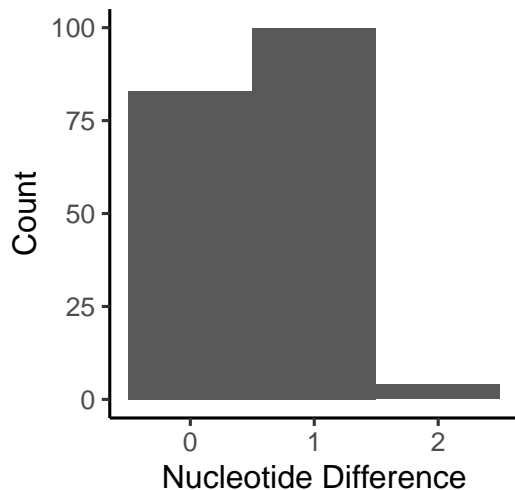
TRBV6-8*ap01

157 sequences assigned
153 (97.5%) exact matches, in which:
151 unique CDR3
13 unique J



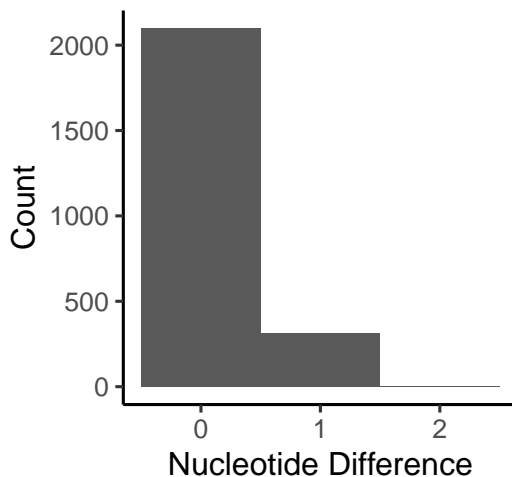
TRBV6–9*ap01

187 sequences assigned
83 (44.4%) exact matches, in which:
80 unique CDR3
13 unique J



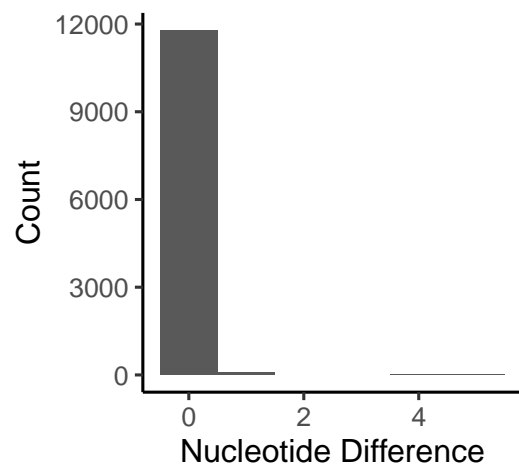
TRBV6–56*ap02

2417 sequences assigned
2098 (86.8%) exact matches, in which:
2041 unique CDR3
13 unique J



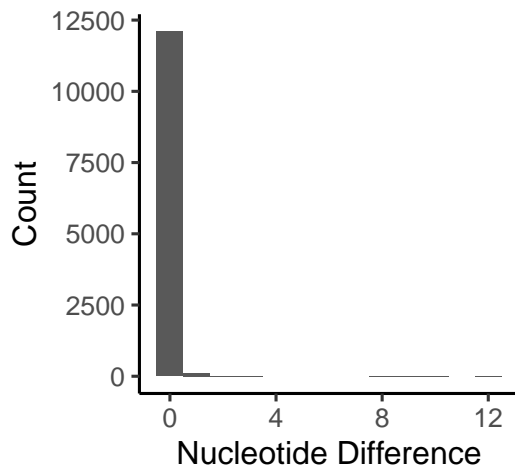
TRBV7–2*ap01

11867 sequences assigned
11791 (99.4%) exact matches, in which:
11645 unique CDR3
13 unique J



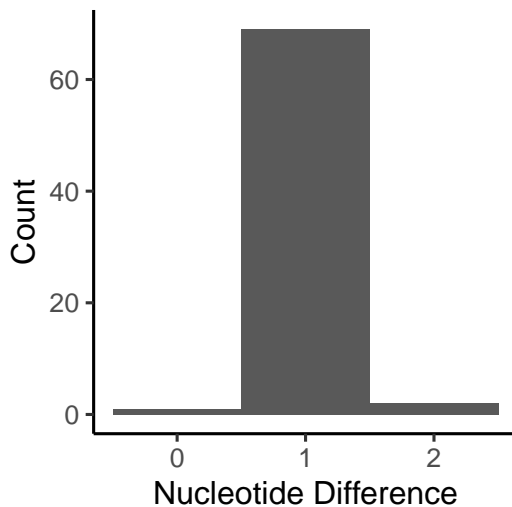
TRBV6–23*ap01

12232 sequences assigned
12101 (98.9%) exact matches, in which:
11792 unique CDR3
13 unique J



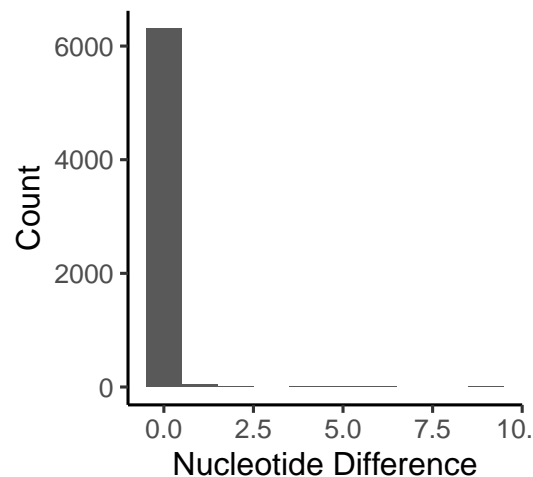
TRBV7–1*ap01_T296C

72 sequences assigned
1 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



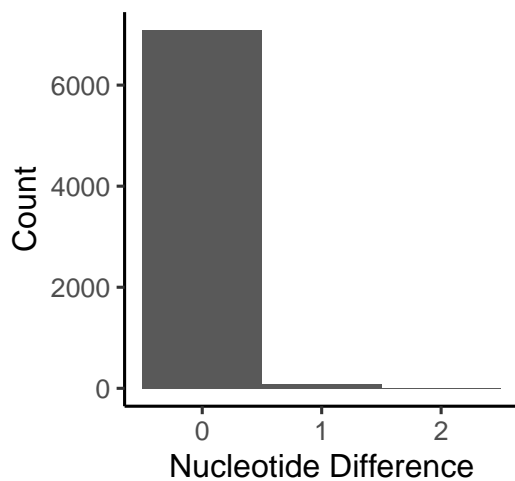
TRBV7–3*ap01

6357 sequences assigned
6305 (99.2%) exact matches, in which:
6245 unique CDR3
13 unique J



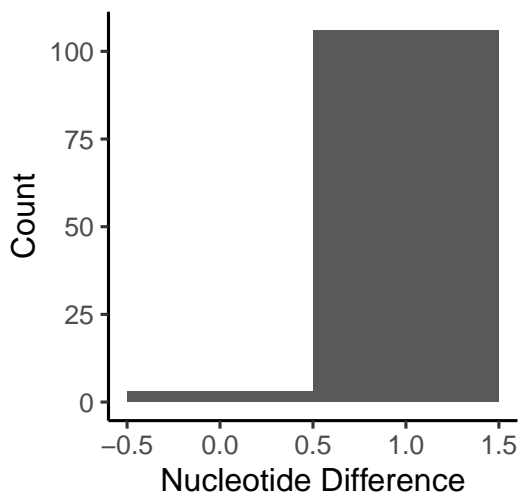
TRBV6–56*ap01

7176 sequences assigned
7090 (98.8%) exact matches, in which:
6897 unique CDR3
13 unique J



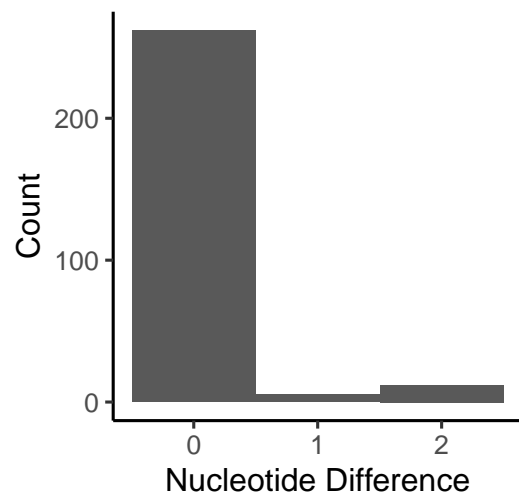
TRBV7–1*ap01_T296C_()

109 sequences assigned
3 (2.8%) exact matches, in which:
3 unique CDR3
3 unique J



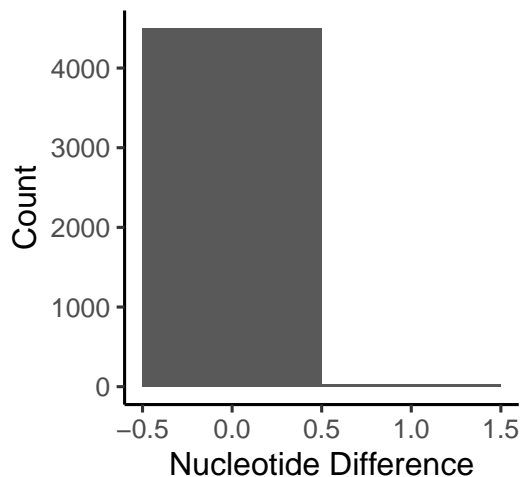
TRBV7–4*ap01

279 sequences assigned
262 (93.9%) exact matches, in which:
257 unique CDR3
13 unique J



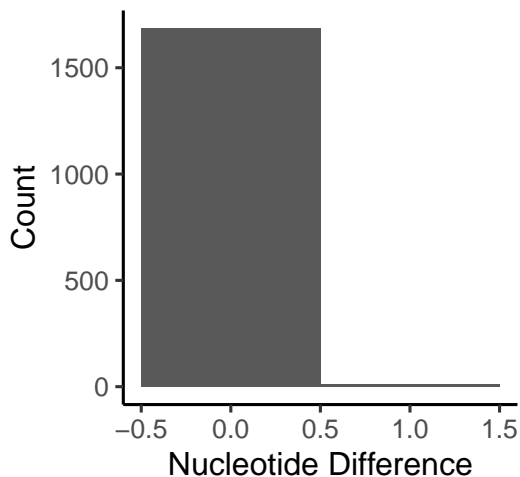
TRBV7-6*ap01

4531 sequences assigned
4498 (99.3%) exact matches, in which:
4425 unique CDR3
13 unique J



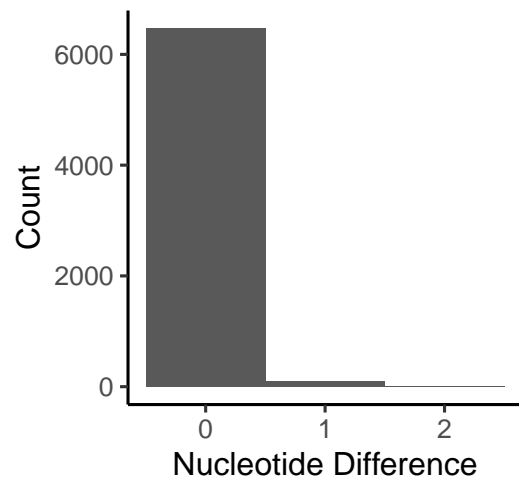
TRBV7-8*ap01

1697 sequences assigned
1685 (99.3%) exact matches, in which:
1643 unique CDR3
13 unique J



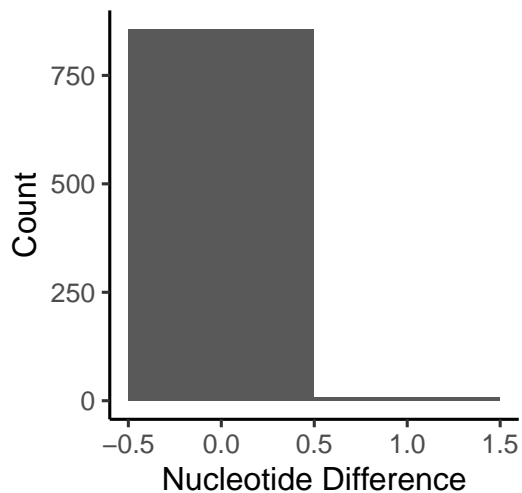
TRBV29-1*ap01

6566 sequences assigned
6469 (98.5%) exact matches, in which:
6269 unique CDR3
13 unique J



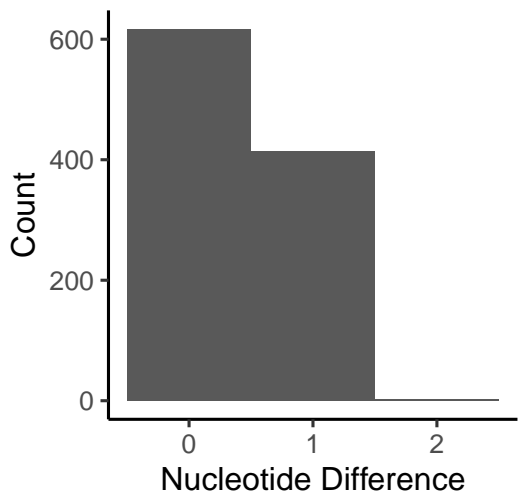
TRBV7-7*ap01

865 sequences assigned
857 (99.1%) exact matches, in which:
844 unique CDR3
13 unique J



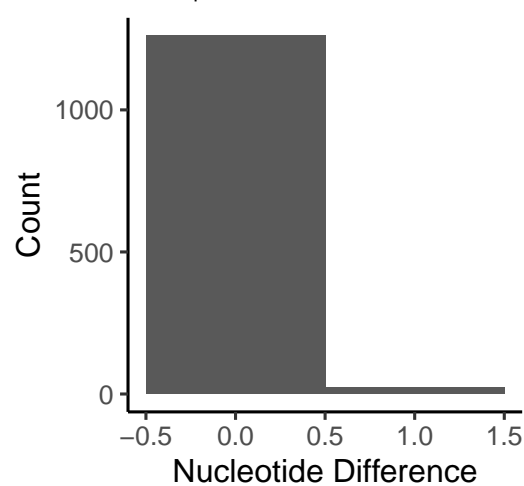
TRBV7-8*ap03

1033 sequences assigned
617 (59.7%) exact matches, in which:
598 unique CDR3
13 unique J



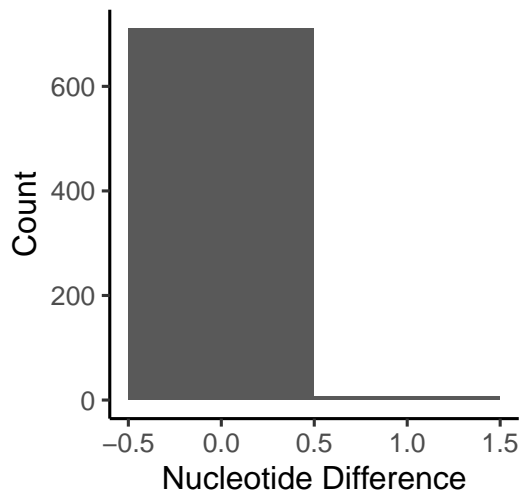
TRBV29-1*ap02

1283 sequences assigned
1261 (98.3%) exact matches, in which:
1223 unique CDR3
13 unique J



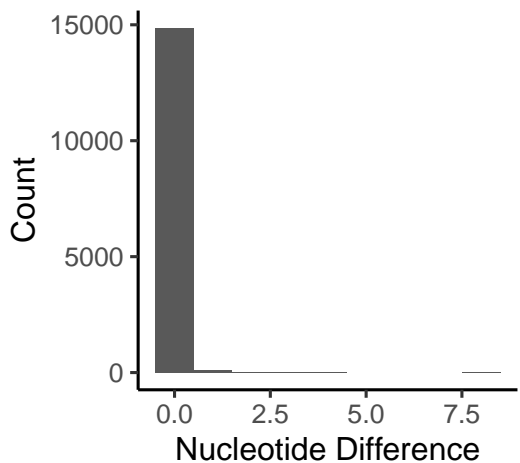
TRBV7-7*ap01_C315T

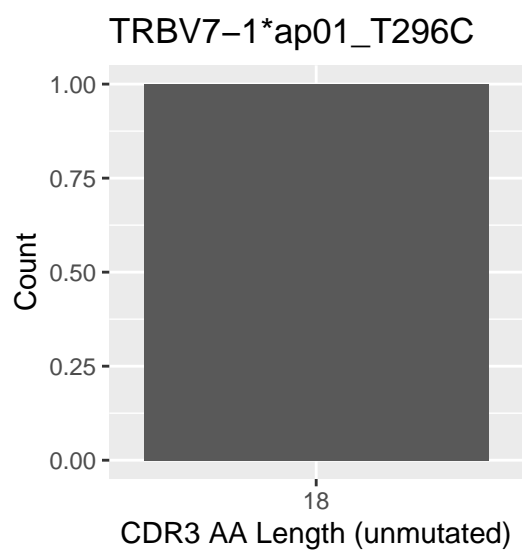
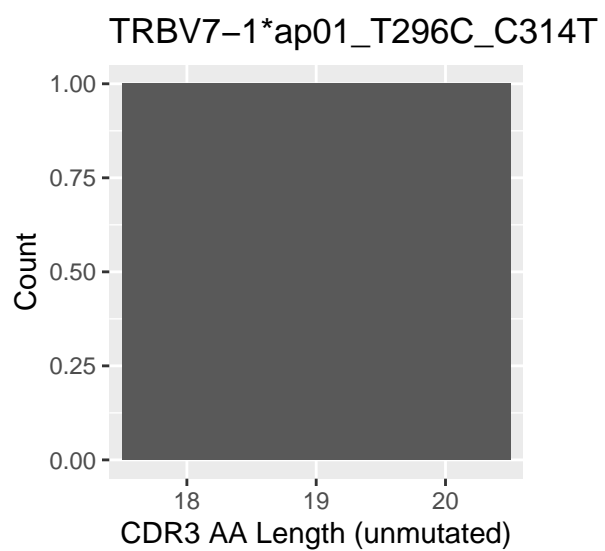
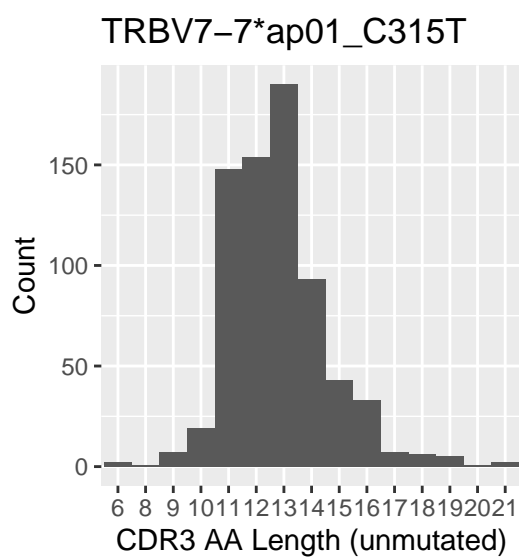
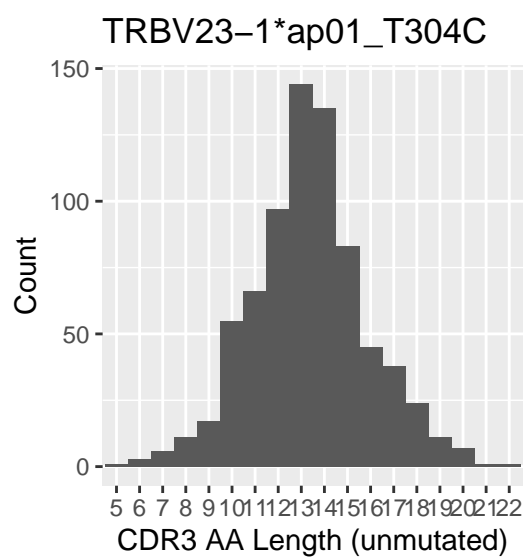
717 sequences assigned
711 (99.2%) exact matches, in which:
704 unique CDR3
13 unique J

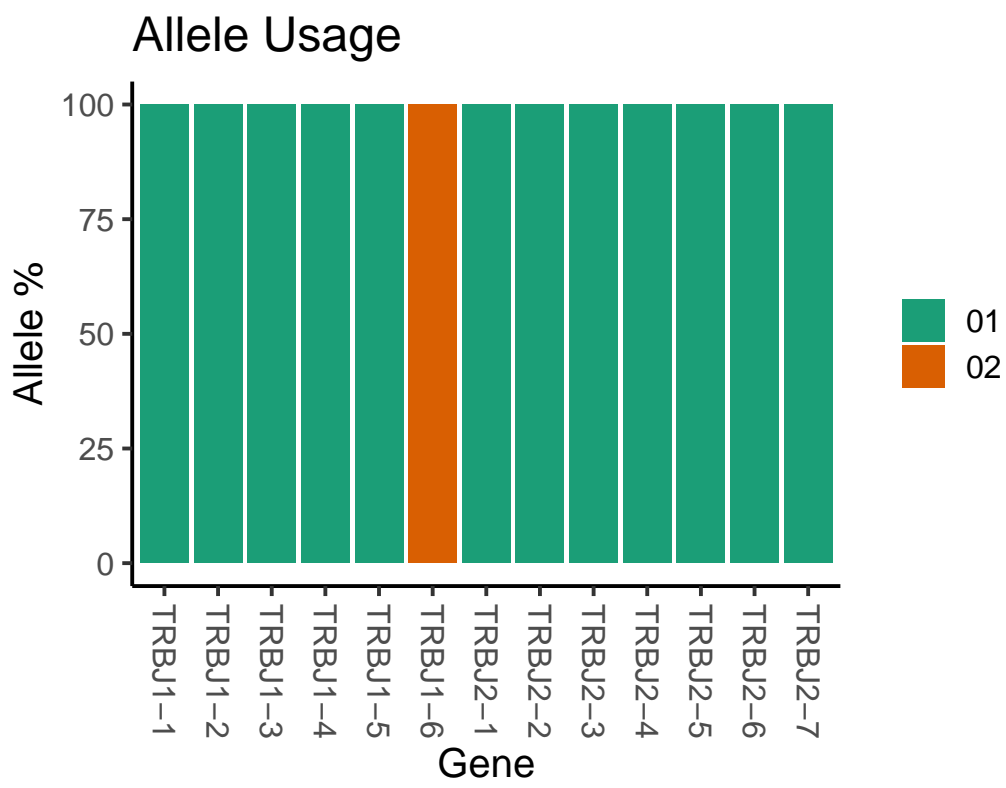


TRBV7-9*ap01

14996 sequences assigned
14870 (99.2%) exact matches, in which:
14625 unique CDR3
13 unique J







[illegible]