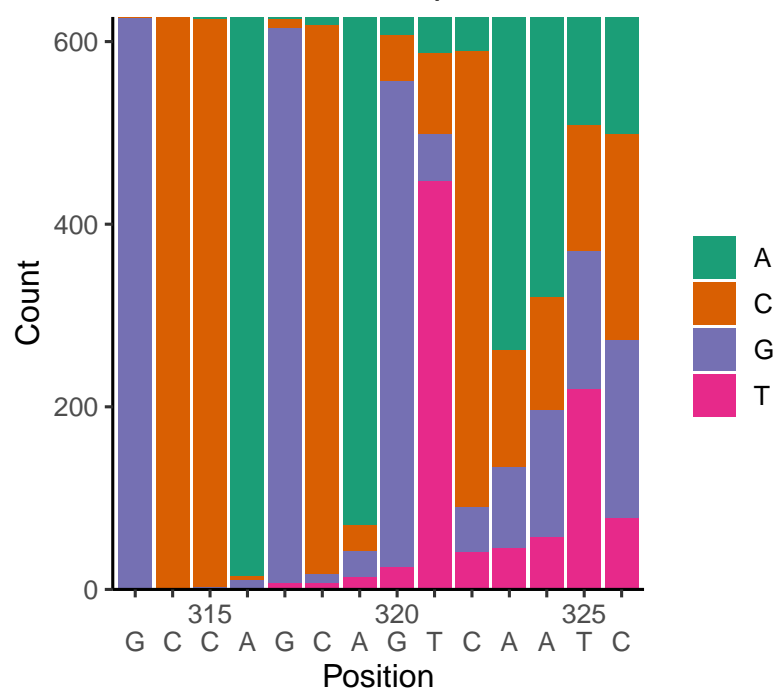
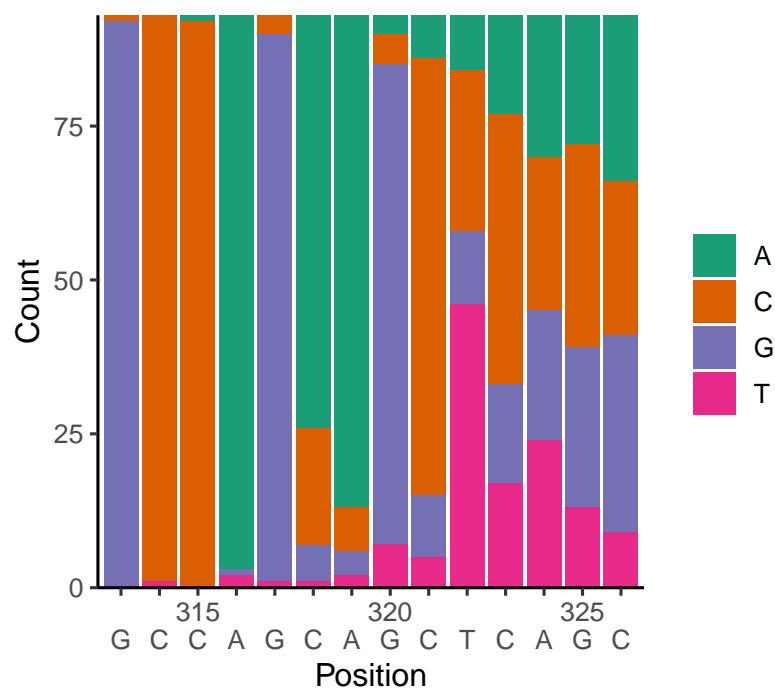


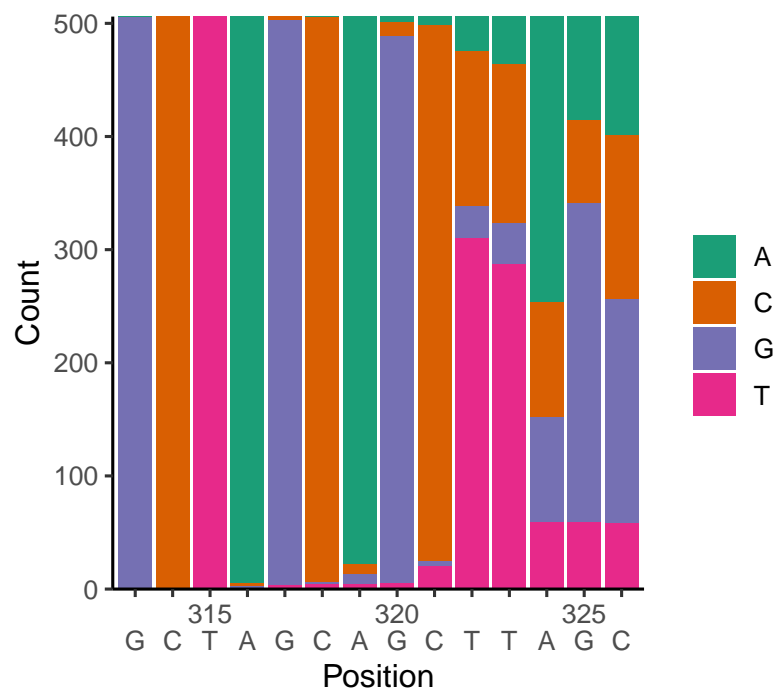
Gene TRBV23-1*ap01_T304C



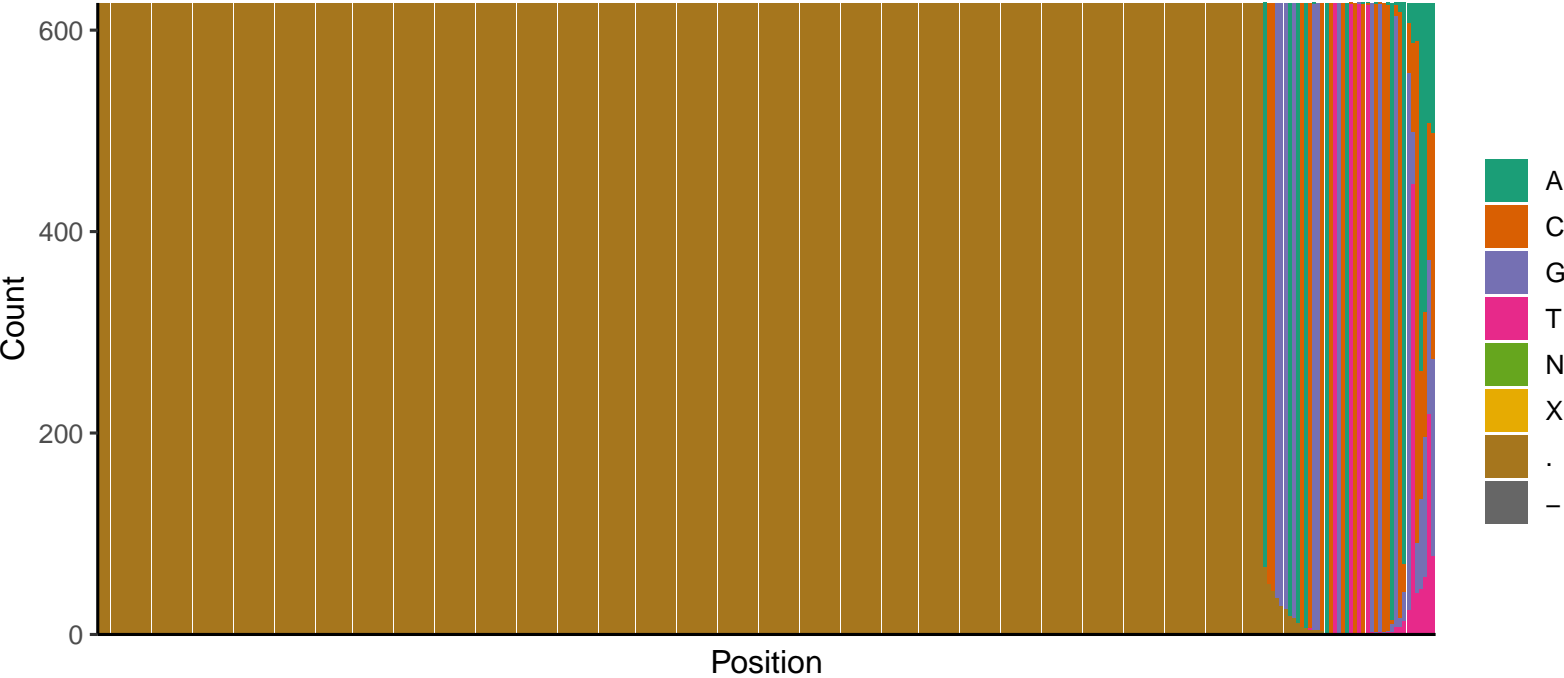
Gene TRBV7-1*ap01_T296C



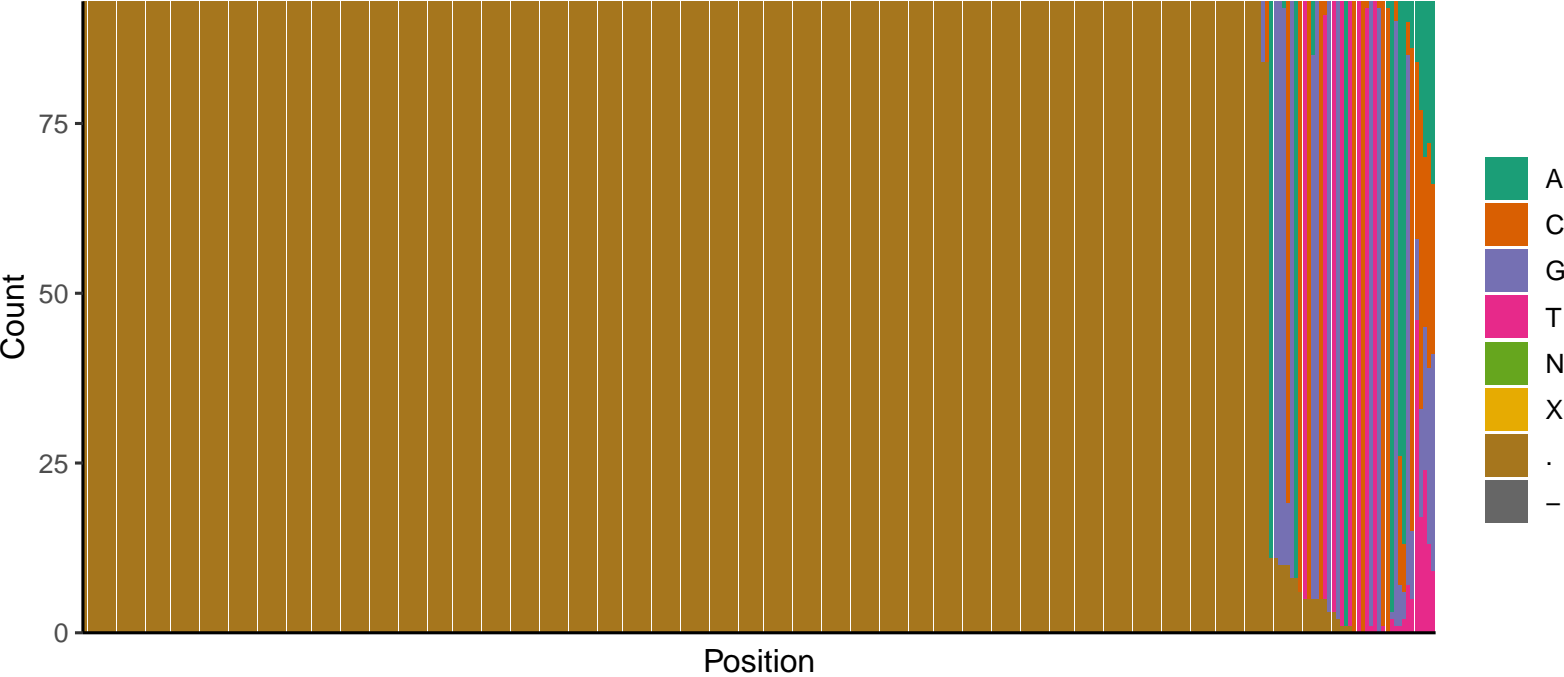
Gene TRBV7-7*ap01_C315T



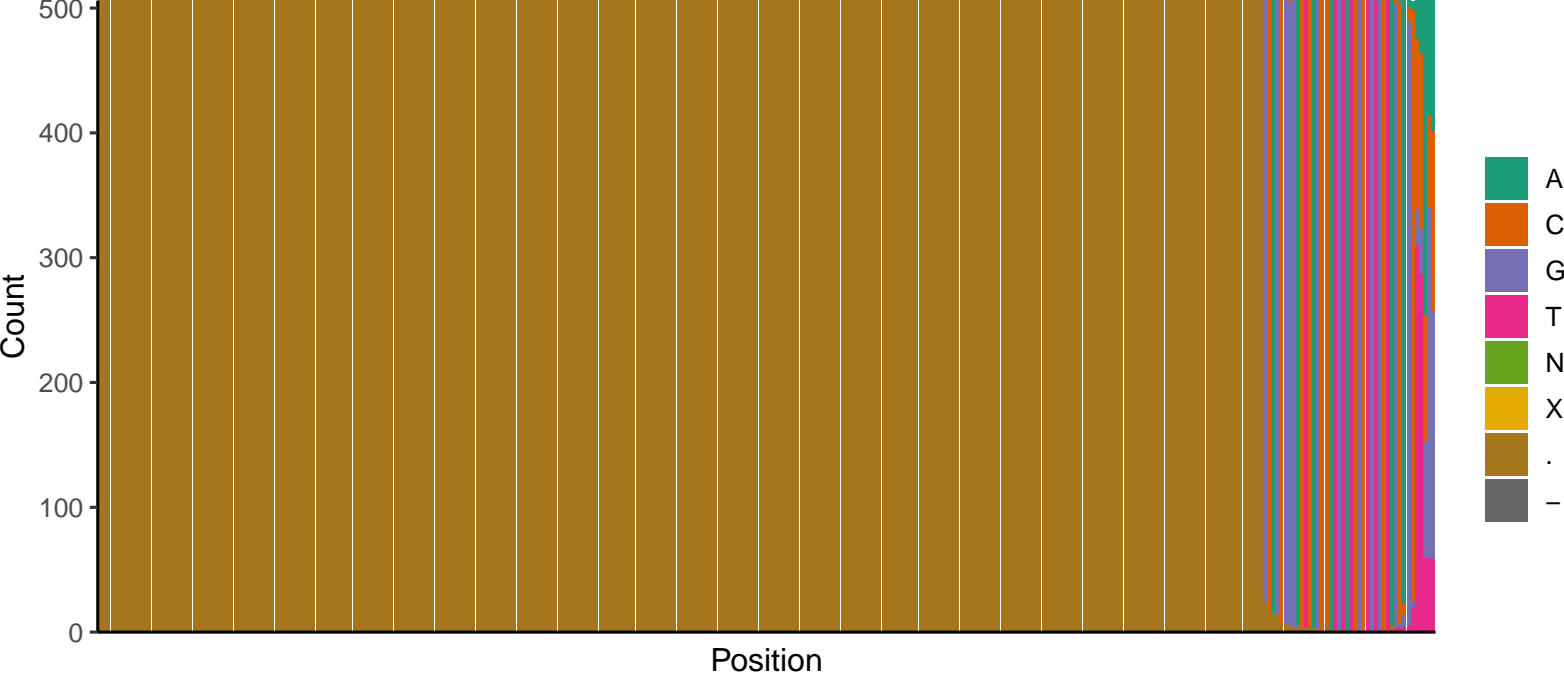
Gene TRBV23-1*ap01_T304C



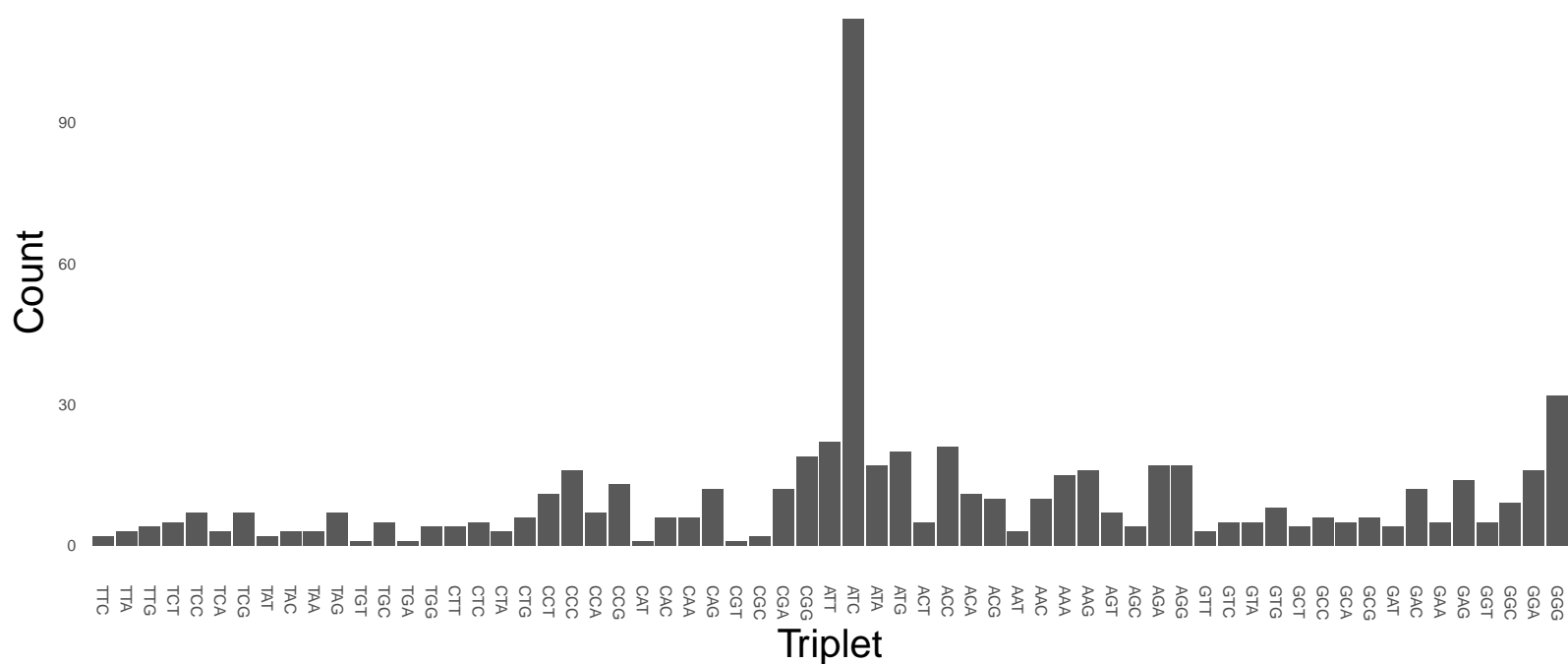
Gene TRBV7-1*ap01_T296C



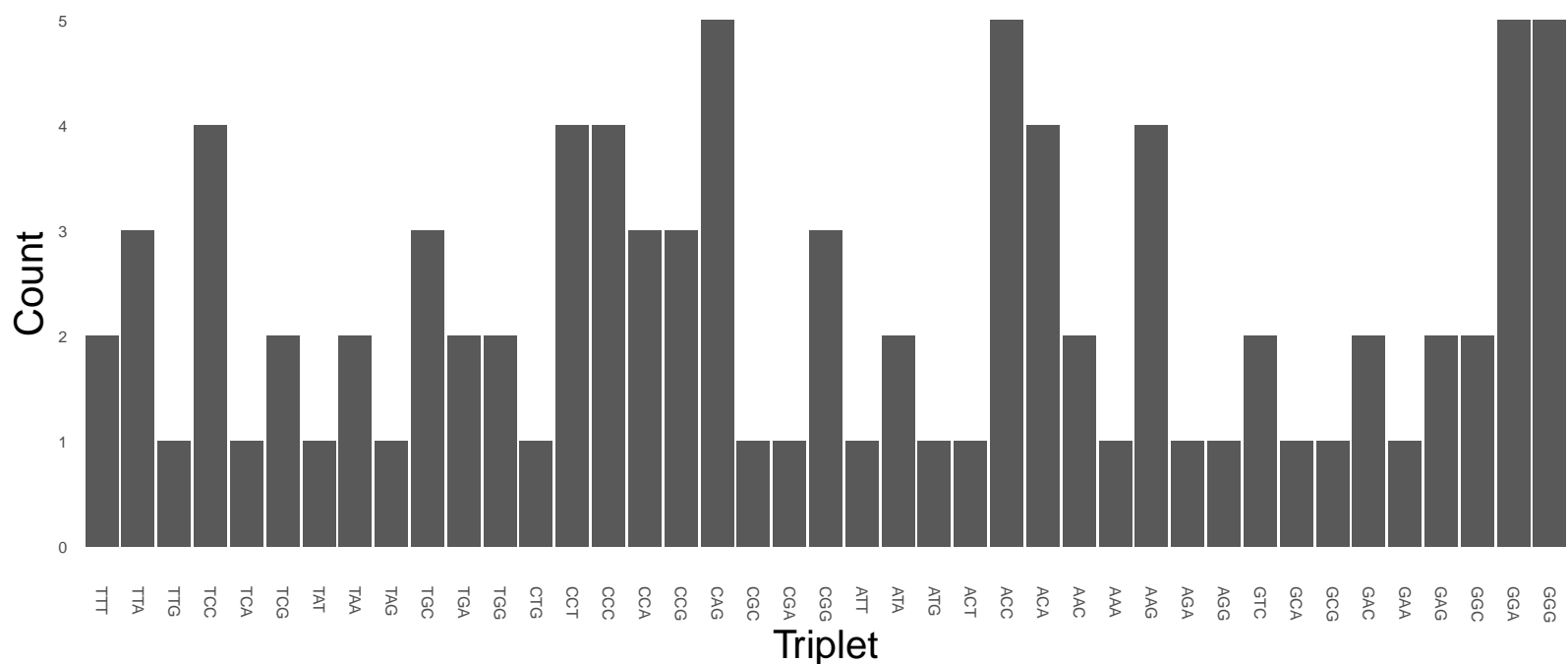
Gene TRBV7-7*ap01_C315T



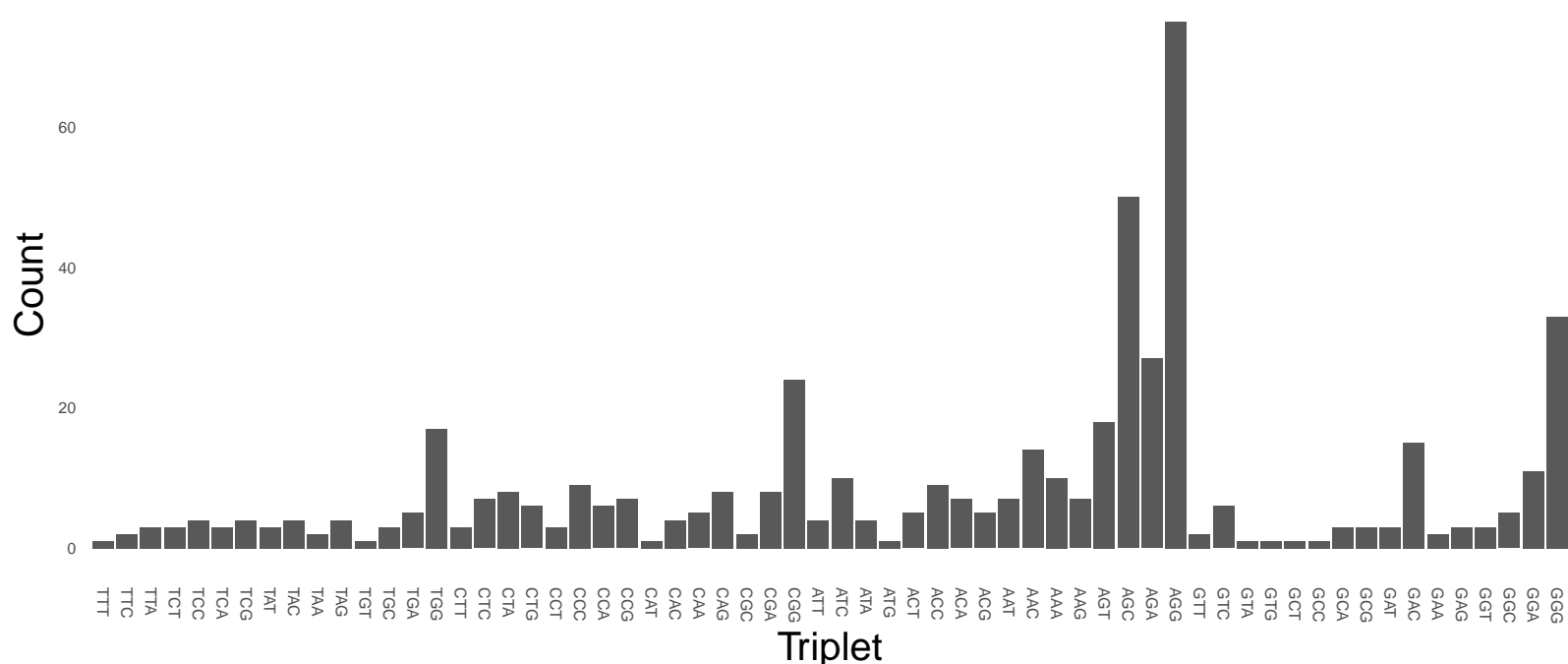
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



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

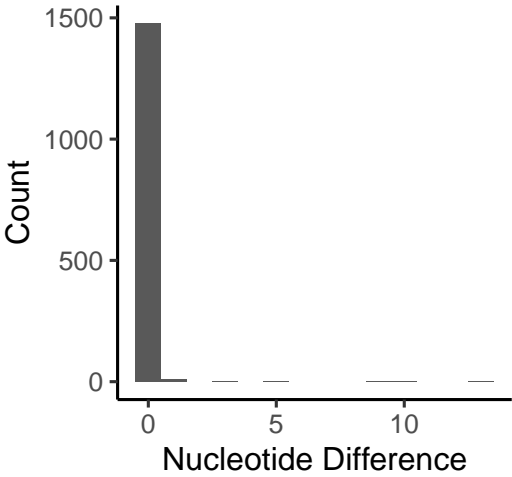


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



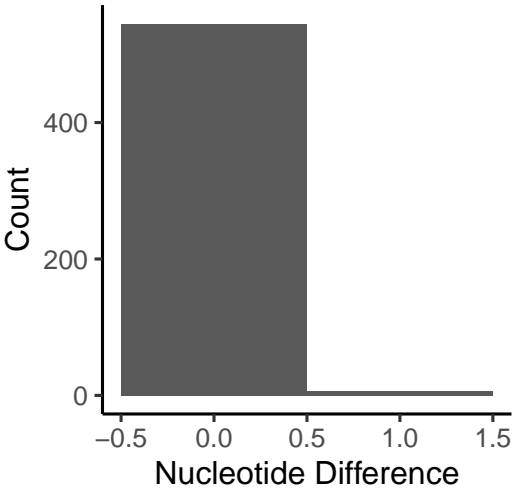
TRBV10-1*ap01

1496 sequences assigned
1477 (98.7%) exact matches, in which:
1469 unique CDR3
13 unique J



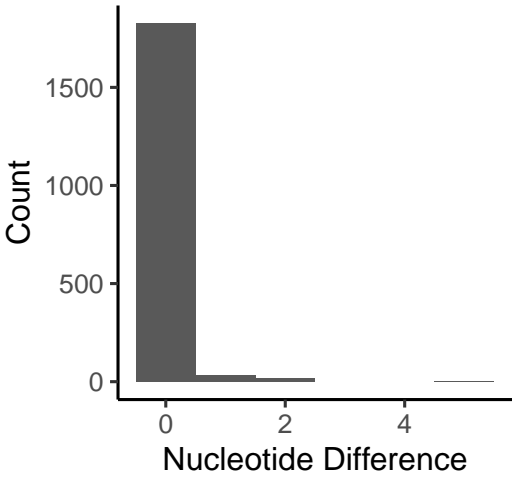
TRBV10-2*ap01

552 sequences assigned
545 (98.7%) exact matches, in which:
543 unique CDR3
13 unique J



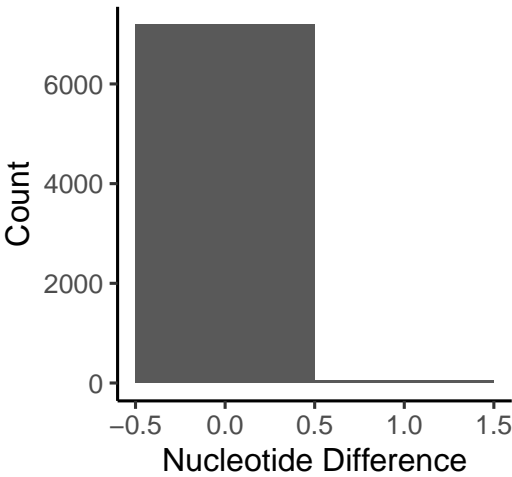
TRBV13*ap01

1876 sequences assigned
1826 (97.3%) exact matches, in which:
1803 unique CDR3
13 unique J



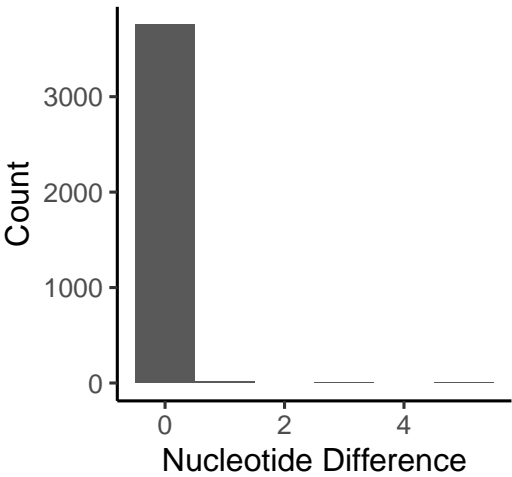
TRBV20-1*ap01

7245 sequences assigned
7188 (99.2%) exact matches, in which:
7139 unique CDR3
13 unique J



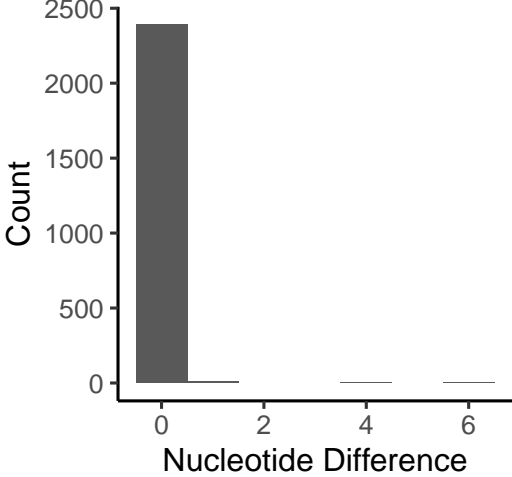
TRBV10-3*ap01

3778 sequences assigned
3754 (99.4%) exact matches, in which:
3727 unique CDR3
13 unique J



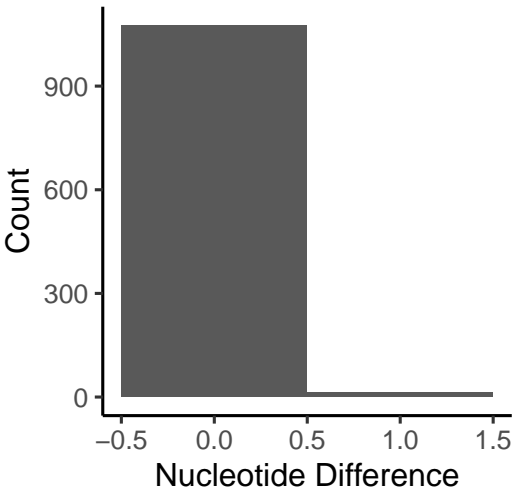
TRBV14*ap01

2404 sequences assigned
2390 (99.4%) exact matches, in which:
2374 unique CDR3
13 unique J



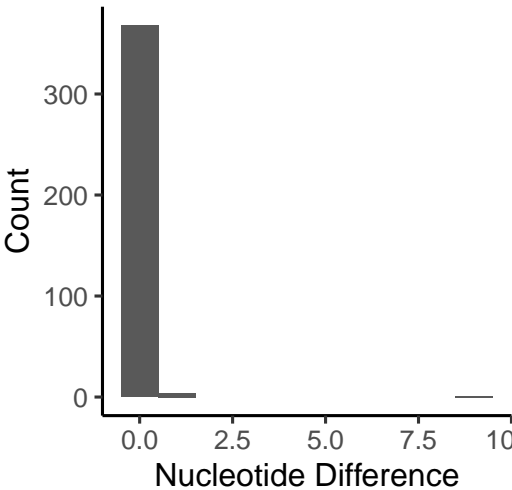
TRBV20-1*ap02

1089 sequences assigned
1076 (98.8%) exact matches, in which:
1067 unique CDR3
13 unique J



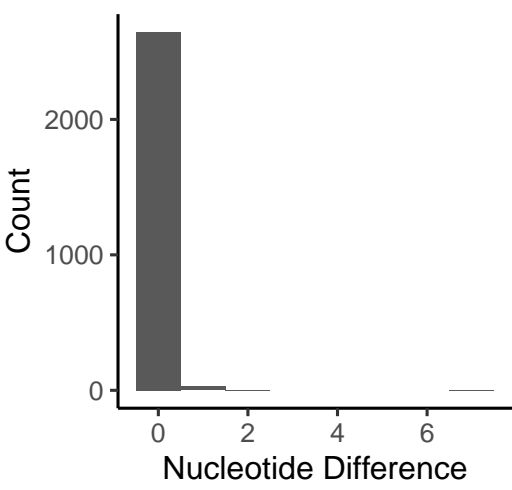
TRBV1*ap01

373 sequences assigned
368 (98.7%) exact matches, in which:
362 unique CDR3
13 unique J



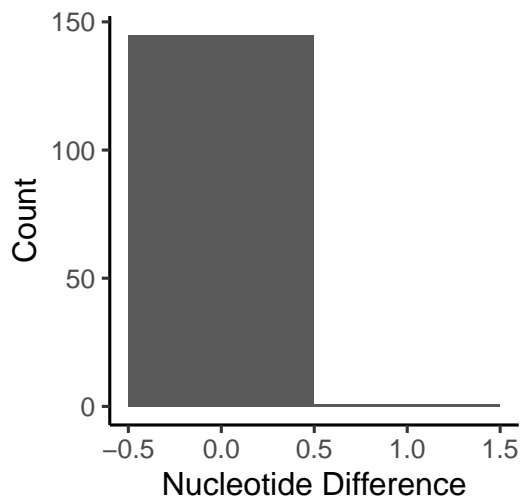
TRBV15*ap02

2677 sequences assigned
2645 (98.8%) exact matches, in which:
2627 unique CDR3
13 unique J



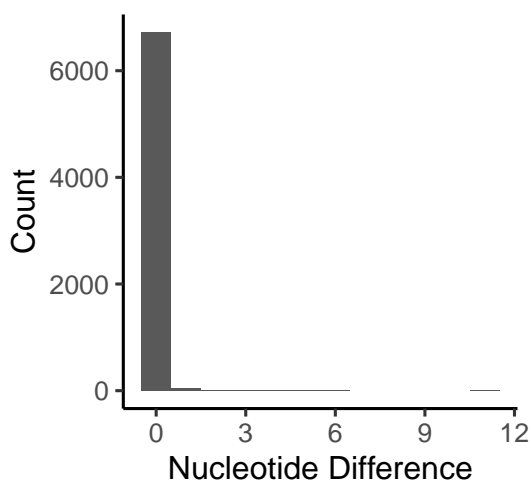
TRBV16*ap01

146 sequences assigned
145 (99.3%) exact matches, in which:
143 unique CDR3
13 unique J



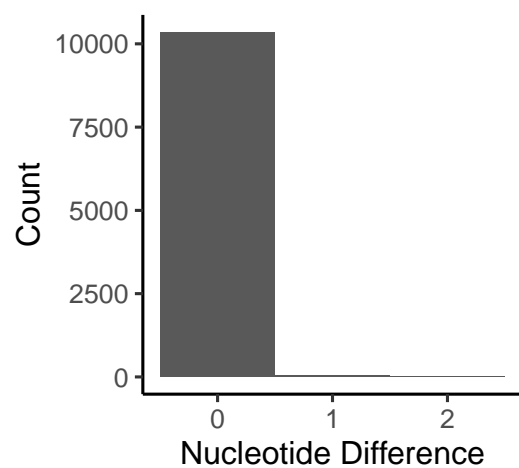
TRBV2*ap01

6774 sequences assigned
6718 (99.2%) exact matches, in which:
6665 unique CDR3
13 unique J



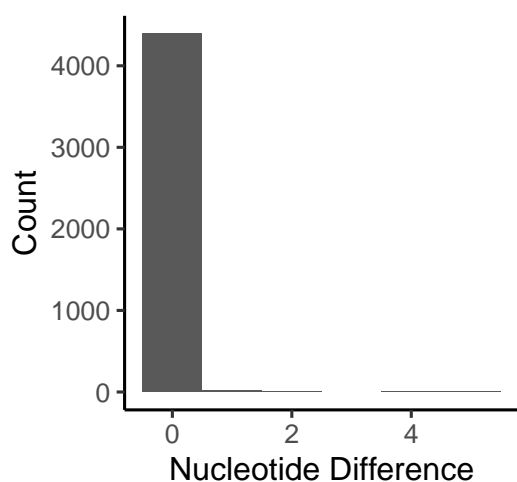
TRBV28*ap01

10411 sequences assigned
10351 (99.4%) exact matches, in which:
10277 unique CDR3
13 unique J



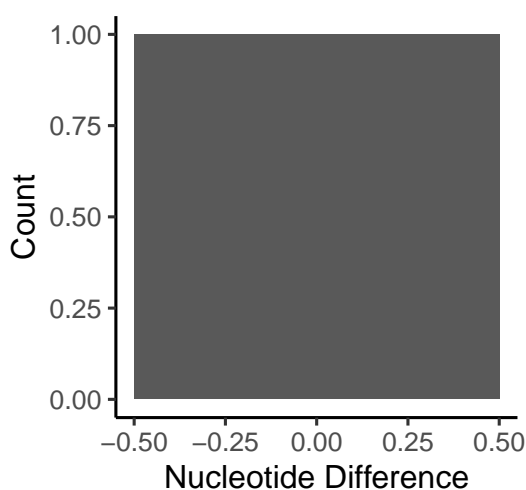
TRBV18*ap01

4420 sequences assigned
4393 (99.4%) exact matches, in which:
4377 unique CDR3
13 unique J



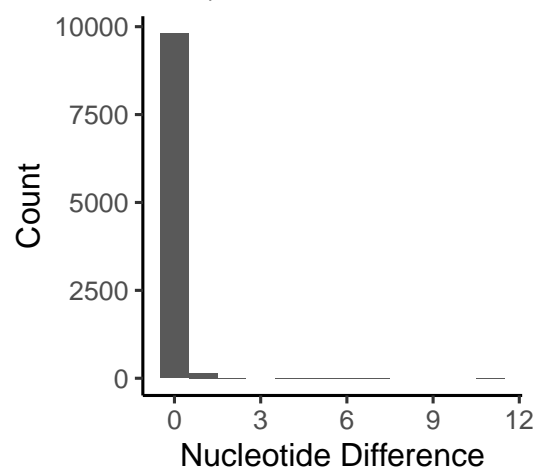
TRBV26*ap01

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



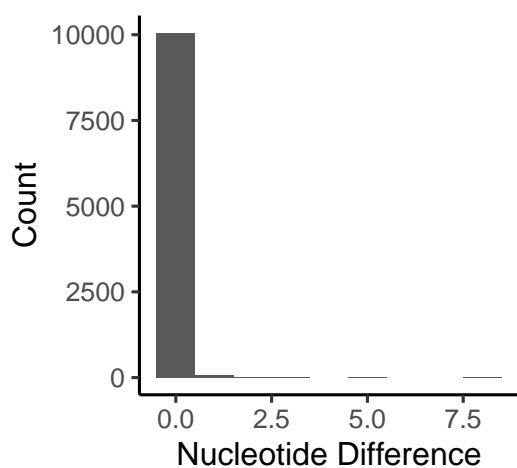
TRBV30*ap01

9968 sequences assigned
9807 (98.4%) exact matches, in which:
9637 unique CDR3
13 unique J



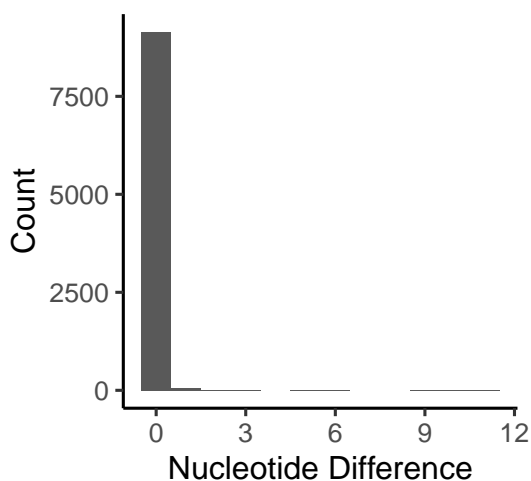
TRBV19*ap01

10136 sequences assigned
10057 (99.2%) exact matches, in which:
10025 unique CDR3
13 unique J



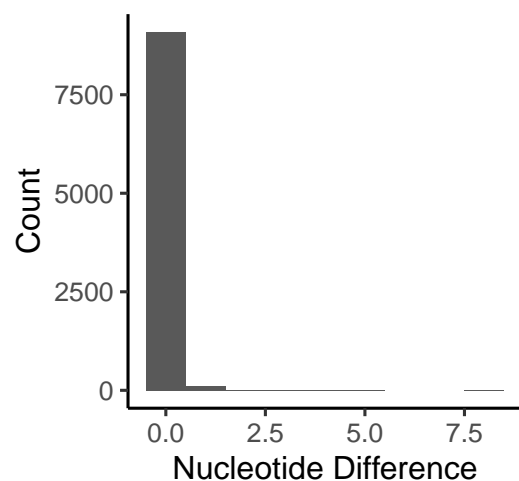
TRBV27*ap01

9218 sequences assigned
9140 (99.2%) exact matches, in which:
9058 unique CDR3
13 unique J



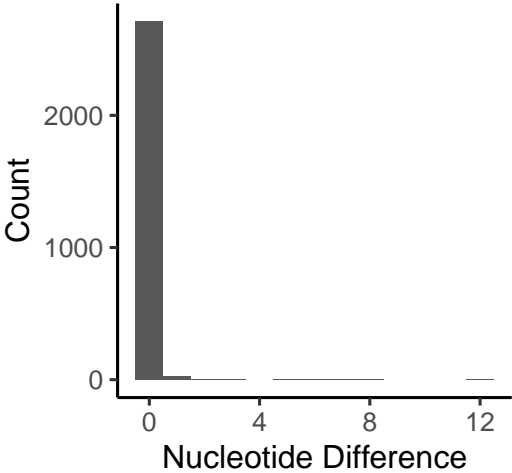
TRBV9*ap01

9208 sequences assigned
9090 (98.7%) exact matches, in which:
9013 unique CDR3
13 unique J



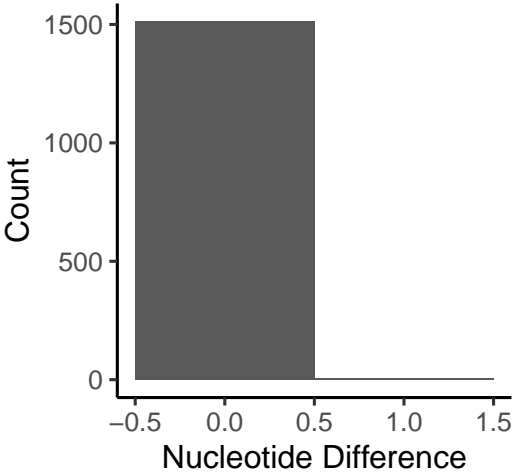
TRBV21-1*ap01

2754 sequences assigned
2711 (98.4%) exact matches, in which:
2703 unique CDR3
13 unique J



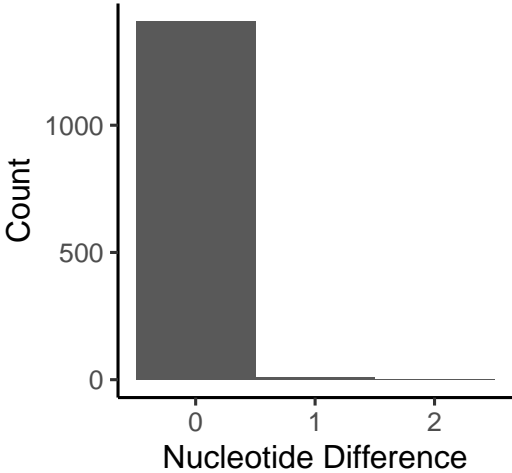
TRBV11-3*ap01

1520 sequences assigned
1513 (99.5%) exact matches, in which:
1511 unique CDR3
13 unique J



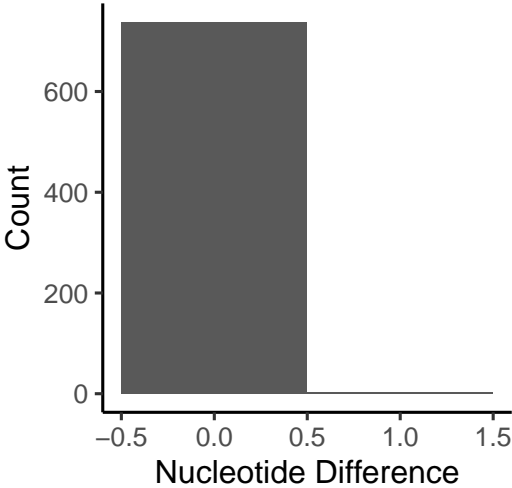
TRBV12-5*ap01

1417 sequences assigned
1408 (99.4%) exact matches, in which:
1402 unique CDR3
13 unique J



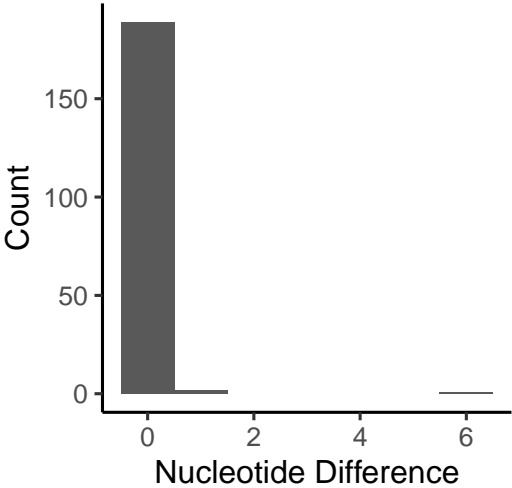
TRBV11-1*ap01

740 sequences assigned
738 (99.7%) exact matches, in which:
733 unique CDR3
13 unique J



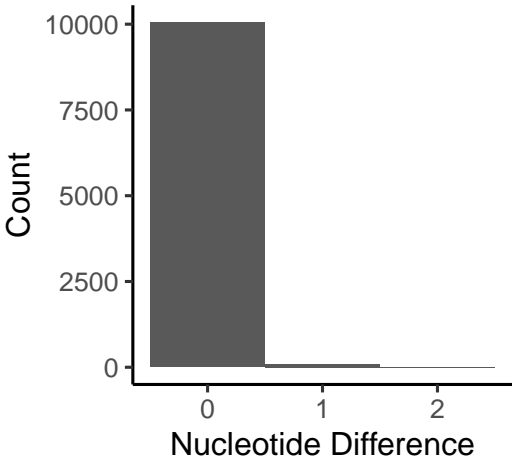
TRBV12-1*ap01

192 sequences assigned
189 (98.4%) exact matches, in which:
189 unique CDR3
12 unique J



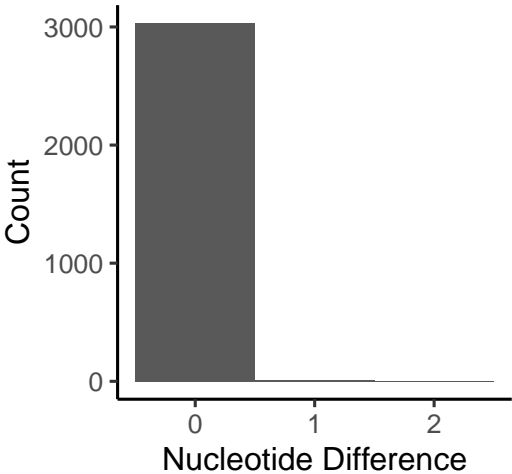
TRBV12-34*ap01

10153 sequences assigned
10050 (99%) exact matches, in which:
9965 unique CDR3
13 unique J



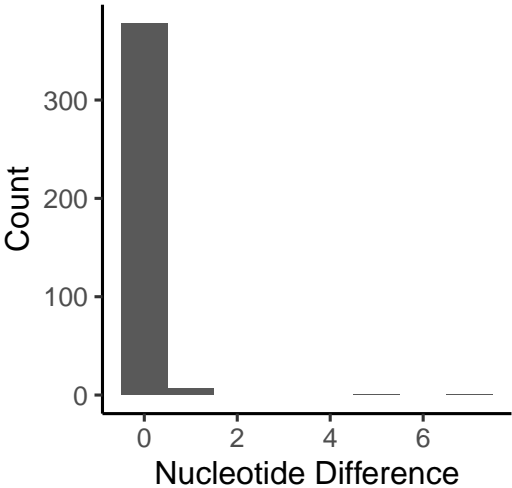
TRBV11-2*ap01

3045 sequences assigned
3033 (99.6%) exact matches, in which:
3021 unique CDR3
13 unique J



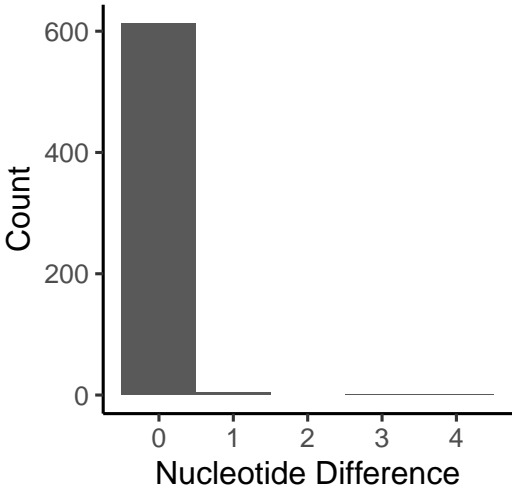
TRBV12-2*ap01

387 sequences assigned
378 (97.7%) exact matches, in which:
375 unique CDR3
13 unique J



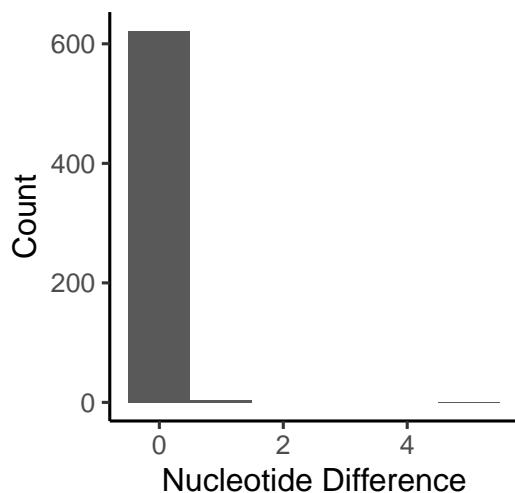
TRBV23-1*ap01

619 sequences assigned
613 (99%) exact matches, in which:
612 unique CDR3
13 unique J



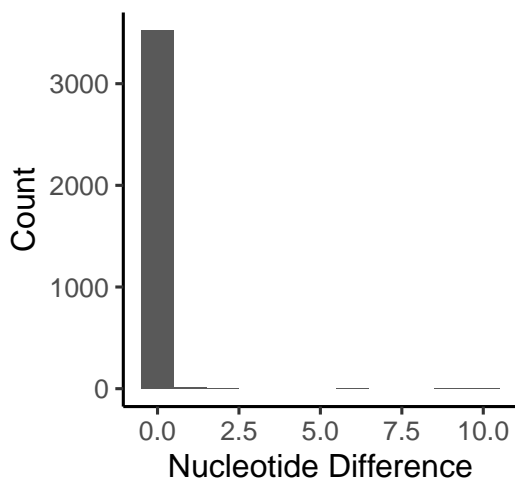
TRBV23-1*ap01_T304C

627 sequences assigned
622 (99.2%) exact matches, in which:
619 unique CDR3
13 unique J



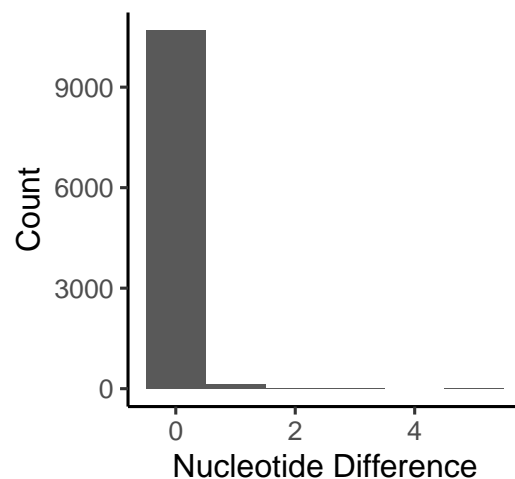
TRBV4-1*ap01

3547 sequences assigned
3524 (99.4%) exact matches, in which:
3478 unique CDR3
13 unique J



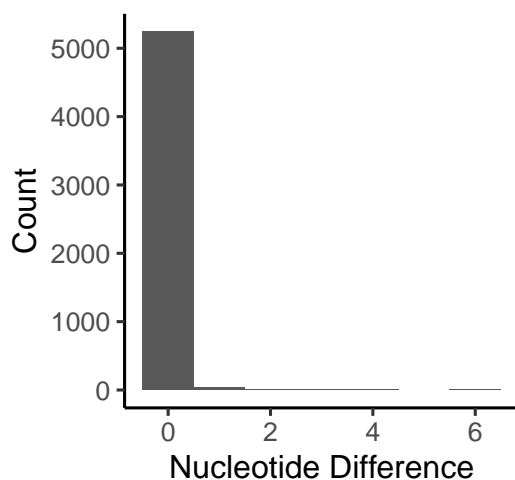
TRBV5-1*ap01

10834 sequences assigned
10694 (98.7%) exact matches, in which:
10576 unique CDR3
13 unique J



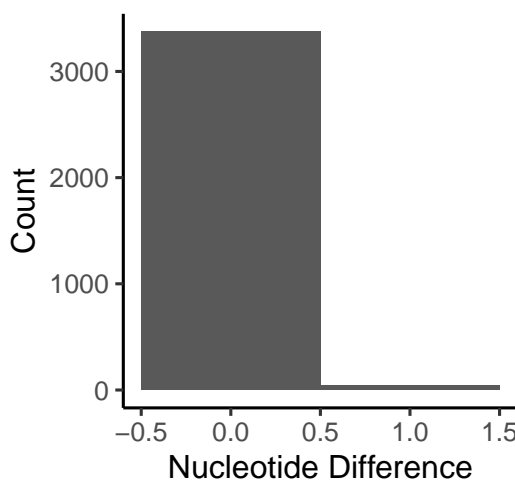
TRBV3-12*ap01

5290 sequences assigned
5242 (99.1%) exact matches, in which:
5219 unique CDR3
13 unique J



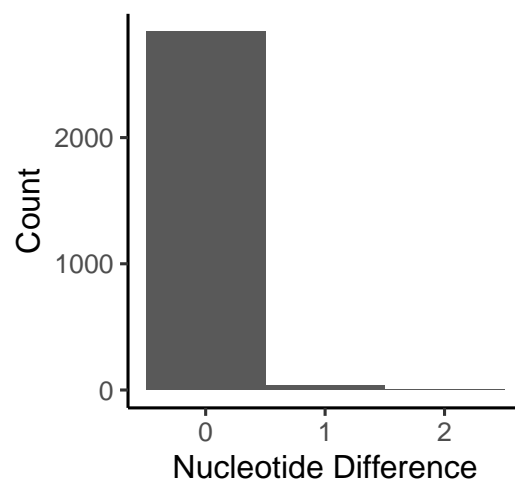
TRBV4-2*ap01

3414 sequences assigned
3374 (98.8%) exact matches, in which:
3344 unique CDR3
13 unique J



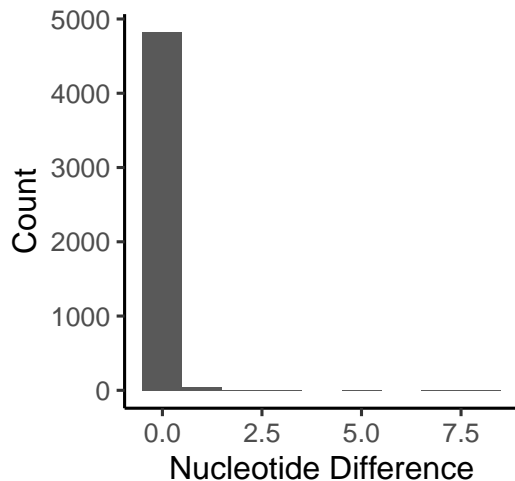
TRBV25-1*ap01

2877 sequences assigned
2839 (98.7%) exact matches, in which:
2798 unique CDR3
13 unique J



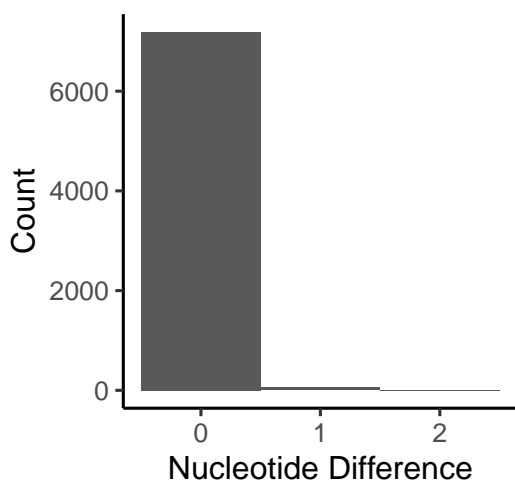
TRBV24-1*ap01

4882 sequences assigned
4824 (98.8%) exact matches, in which:
4776 unique CDR3
13 unique J



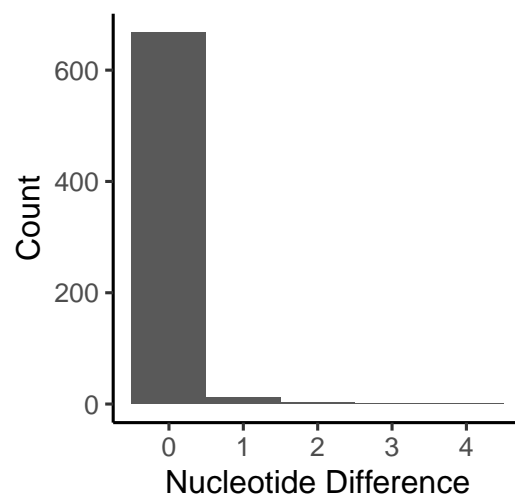
TRBV4-3*ap01

7242 sequences assigned
7186 (99.2%) exact matches, in which:
7106 unique CDR3
13 unique J



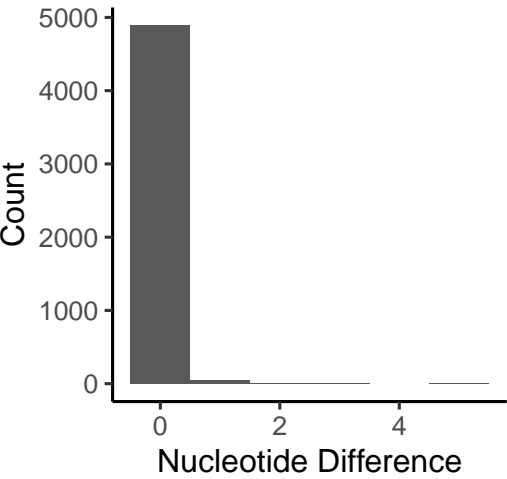
TRBV5-3*ap01

683 sequences assigned
668 (97.8%) exact matches, in which:
665 unique CDR3
13 unique J



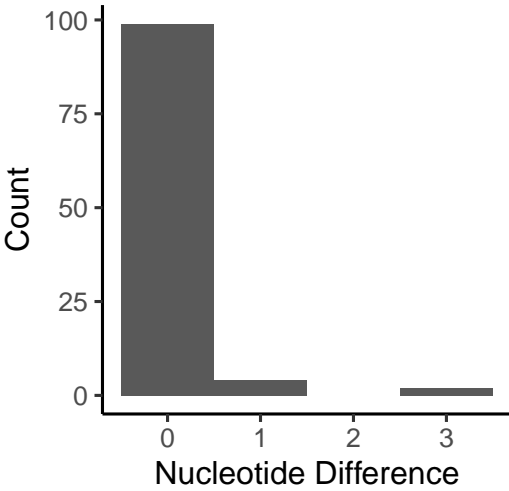
TRBV5-4*ap01

4939 sequences assigned
4891 (99%) exact matches, in which:
4838 unique CDR3
13 unique J



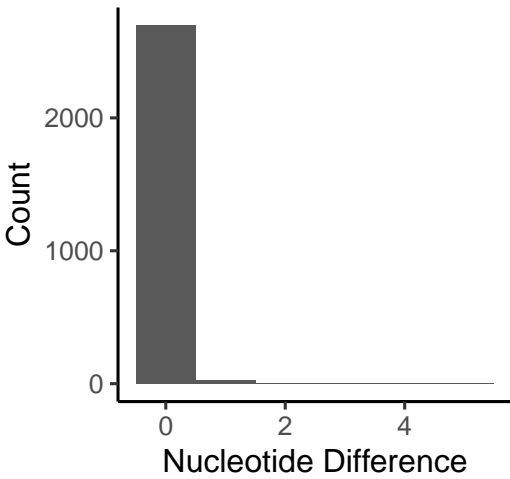
TRBV5-7*ap01

105 sequences assigned
99 (94.3%) exact matches, in which:
97 unique CDR3
12 unique J



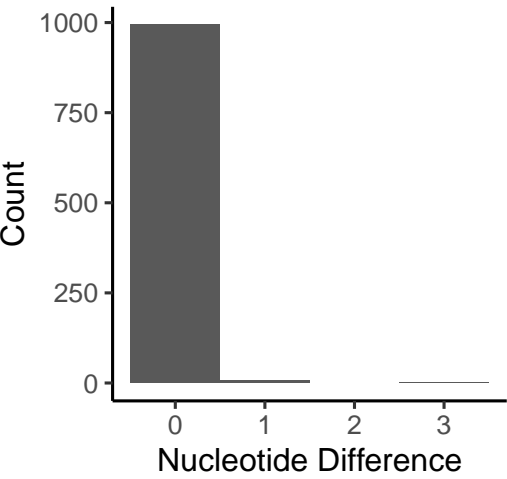
TRBV6-4*ap01

2733 sequences assigned
2696 (98.6%) exact matches, in which:
2682 unique CDR3
13 unique J



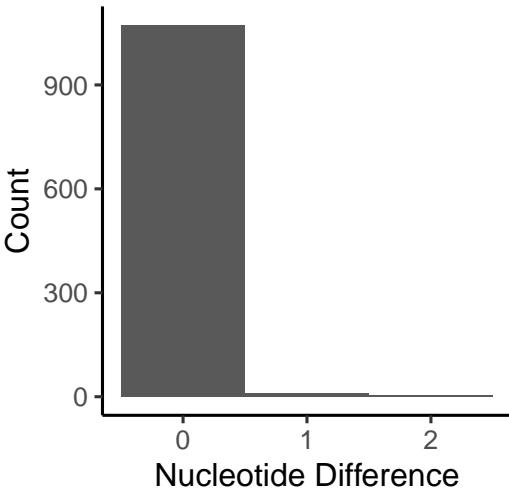
TRBV5-5*ap01

1003 sequences assigned
994 (99.1%) exact matches, in which:
983 unique CDR3
13 unique J



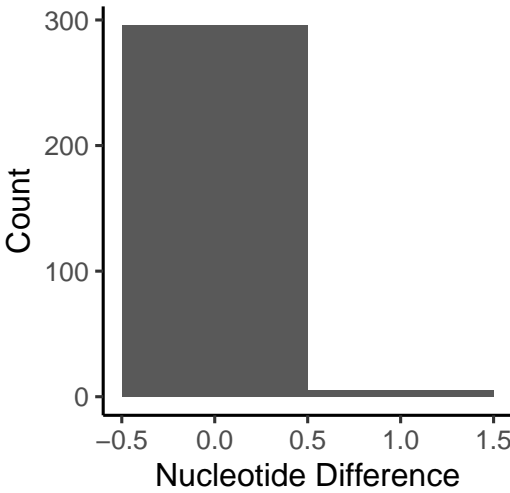
TRBV5-8*ap01

1088 sequences assigned
1073 (98.6%) exact matches, in which:
1069 unique CDR3
13 unique J



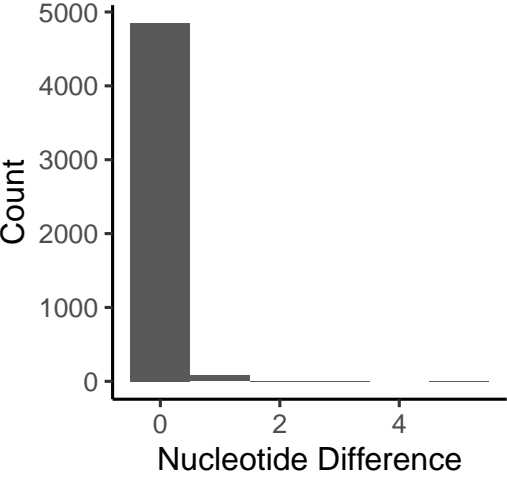
TRBV6-7*ap01

301 sequences assigned
296 (98.3%) exact matches, in which:
294 unique CDR3
13 unique J



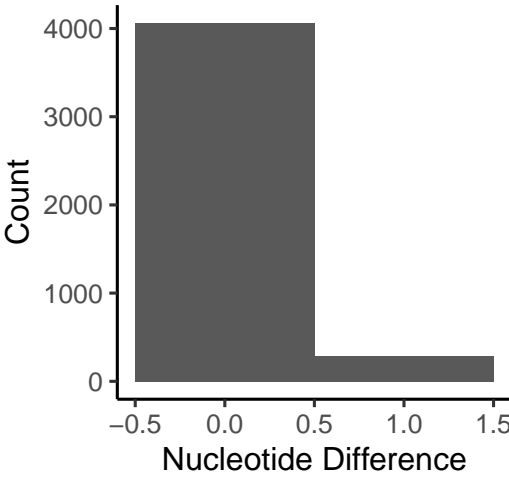
TRBV5-6*ap01

4935 sequences assigned
4850 (98.3%) exact matches, in which:
4762 unique CDR3
13 unique J



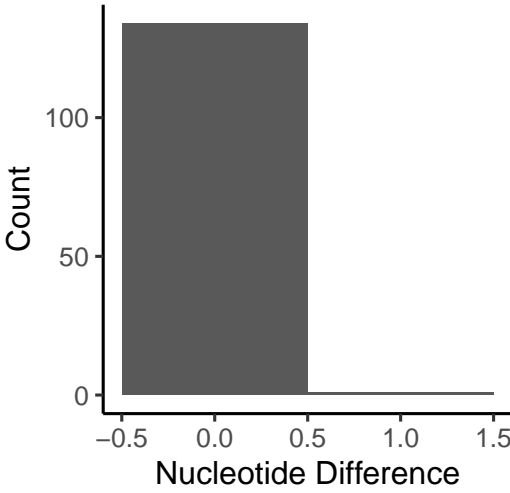
TRBV6-1*ap01

4349 sequences assigned
4062 (93.4%) exact matches, in which:
4018 unique CDR3
13 unique J



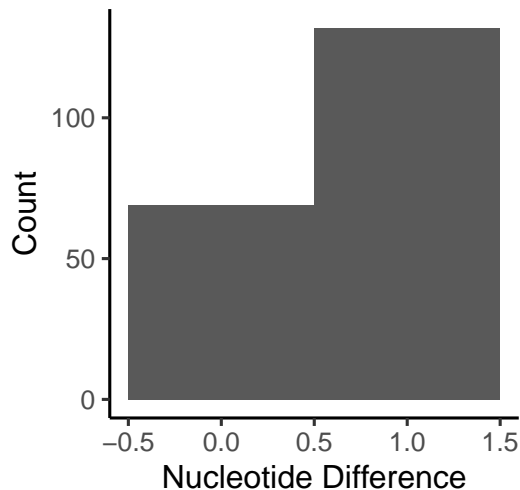
TRBV6-8*ap01

135 sequences assigned
134 (99.3%) exact matches, in which:
130 unique CDR3
11 unique J



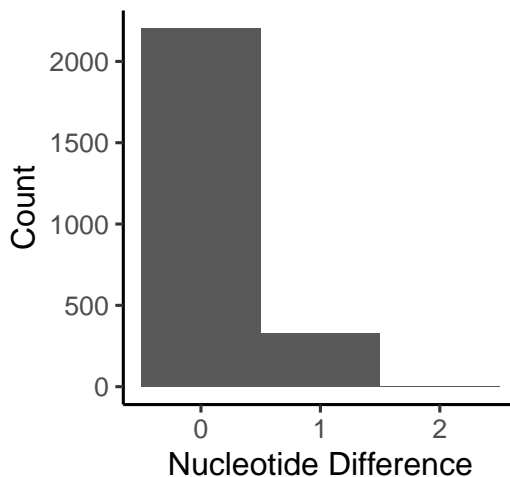
TRBV6–9*ap01

201 sequences assigned
69 (34.3%) exact matches, in which:
68 unique CDR3
13 unique J



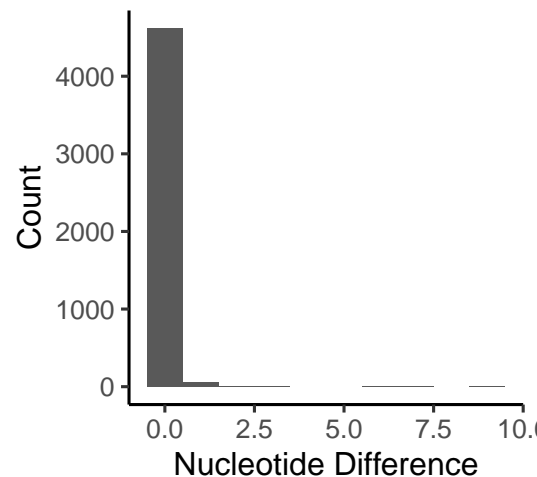
TRBV6–56*ap02

2535 sequences assigned
2203 (86.9%) exact matches, in which:
2168 unique CDR3
13 unique J



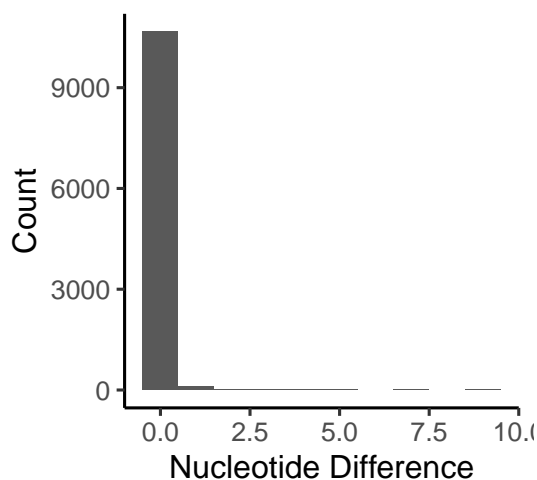
TRBV7–3*ap01

4675 sequences assigned
4616 (98.7%) exact matches, in which:
4603 unique CDR3
13 unique J



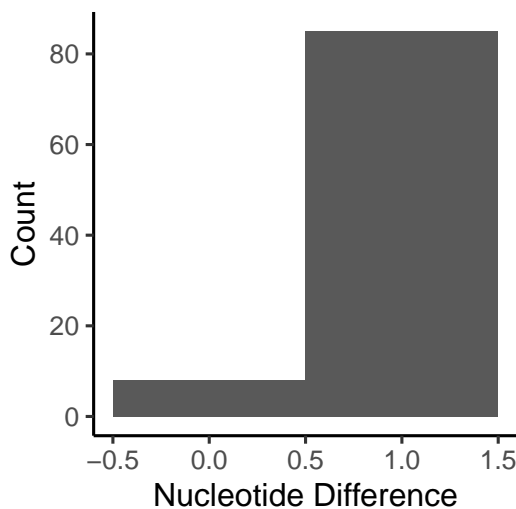
TRBV6–23*ap01

10767 sequences assigned
10666 (99.1%) exact matches, in which:
10505 unique CDR3
13 unique J



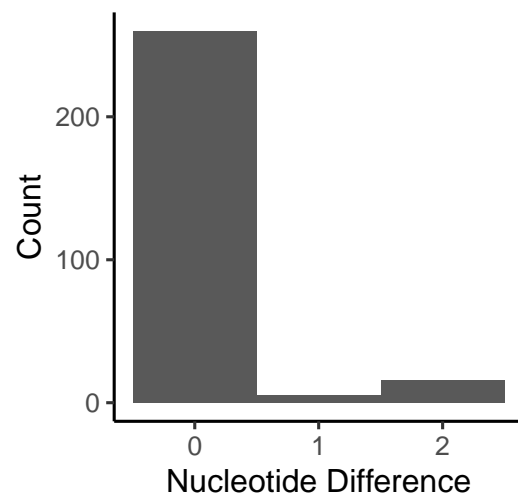
TRBV7–1*ap01_T296C

93 sequences assigned
8 (8.6%) exact matches, in which:
8 unique CDR3
5 unique J



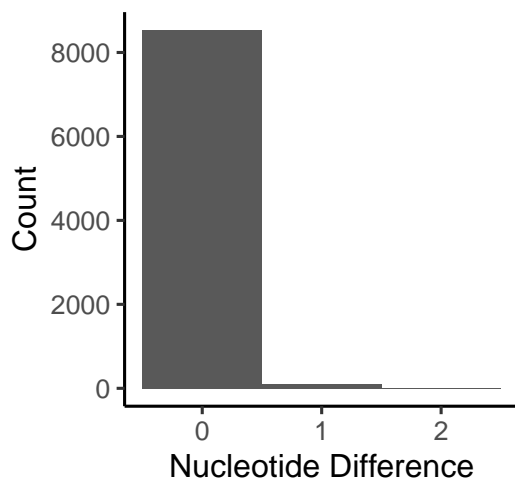
TRBV7–4*ap01

281 sequences assigned
260 (92.5%) exact matches, in which:
259 unique CDR3
13 unique J



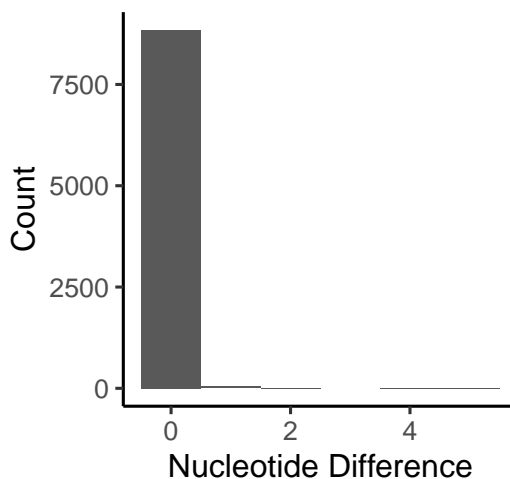
TRBV6–56*ap01

8635 sequences assigned
8534 (98.8%) exact matches, in which:
8384 unique CDR3
13 unique J



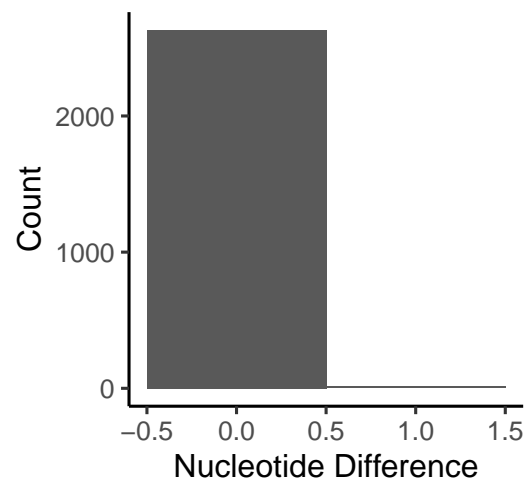
TRBV7–2*ap01

8888 sequences assigned
8843 (99.5%) exact matches, in which:
8785 unique CDR3
14 unique J



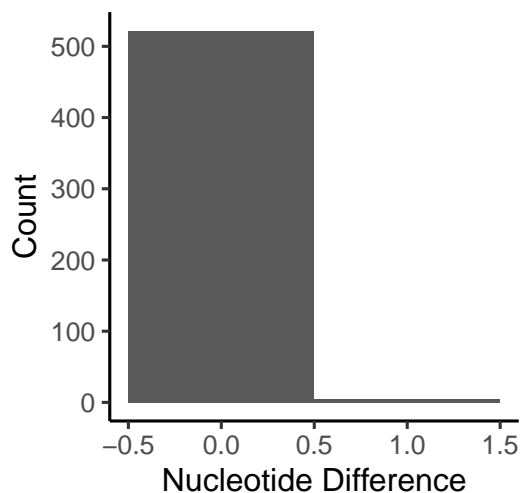
TRBV7–6*ap01

2644 sequences assigned
2631 (99.5%) exact matches, in which:
2606 unique CDR3
13 unique J



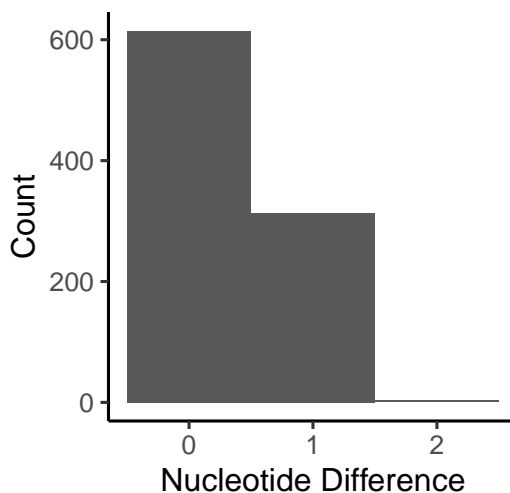
TRBV7-7*ap01

527 sequences assigned
522 (99.1%) exact matches, in which:
516 unique CDR3
12 unique J



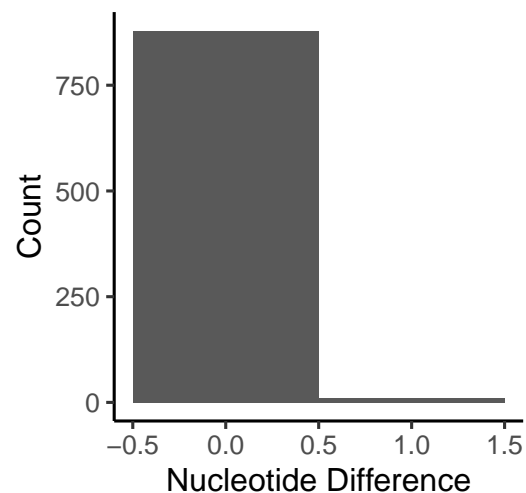
TRBV7-8*ap03

932 sequences assigned
615 (66%) exact matches, in which:
614 unique CDR3
13 unique J



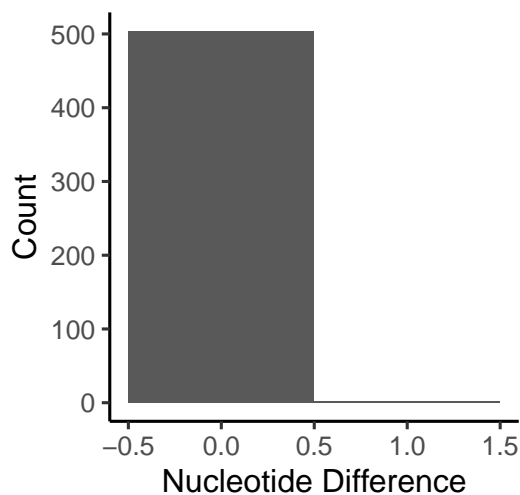
TRBV29-1*ap02

890 sequences assigned
879 (98.8%) exact matches, in which:
862 unique CDR3
13 unique J



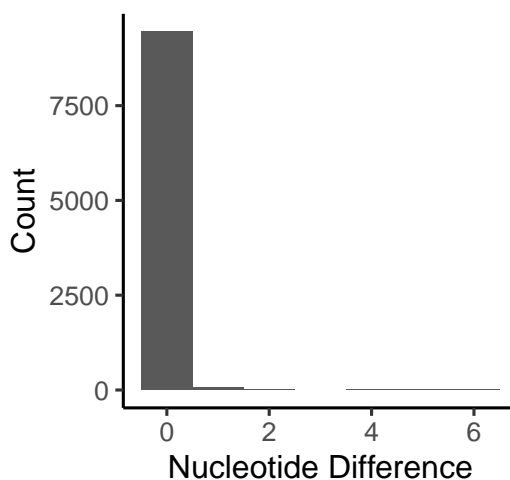
TRBV7-7*ap01_C315T

506 sequences assigned
504 (99.6%) exact matches, in which:
501 unique CDR3
13 unique J



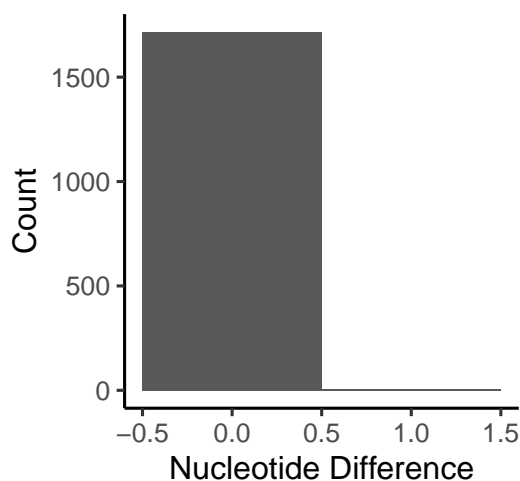
TRBV7-9*ap01

9520 sequences assigned
9450 (99.3%) exact matches, in which:
9380 unique CDR3
13 unique J



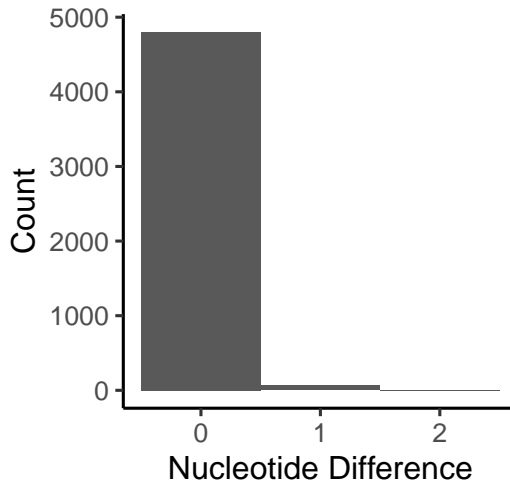
TRBV7-8*ap01

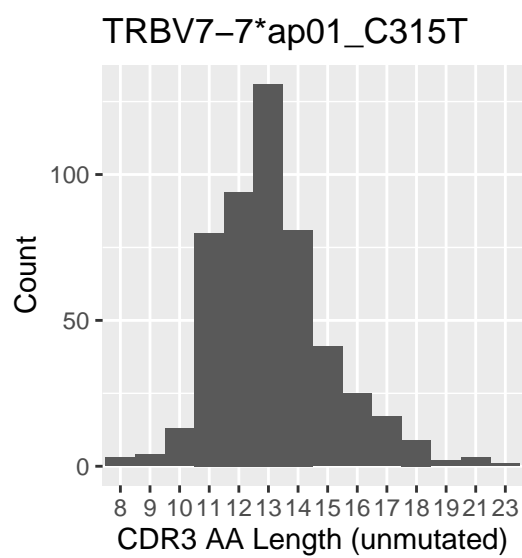
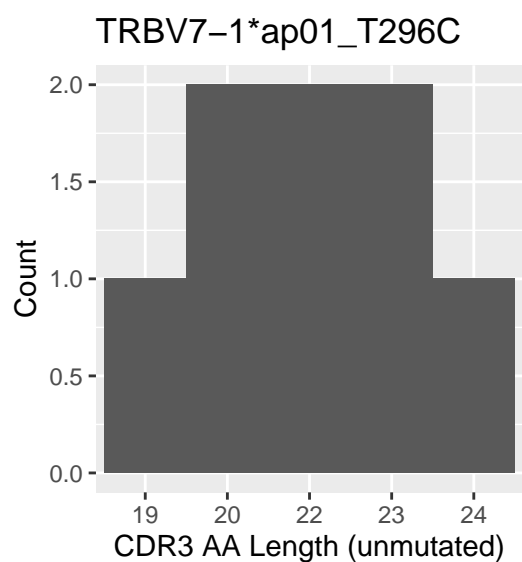
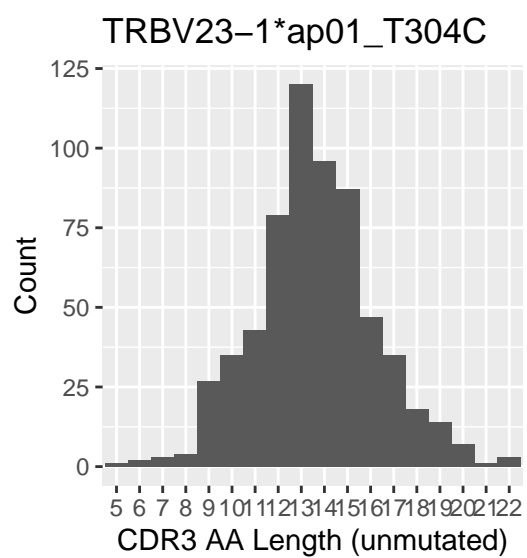
1721 sequences assigned
1716 (99.7%) exact matches, in which:
1697 unique CDR3
13 unique J



TRBV29-1*ap01

4869 sequences assigned
4801 (98.6%) exact matches, in which:
4720 unique CDR3
13 unique J







[illegible]