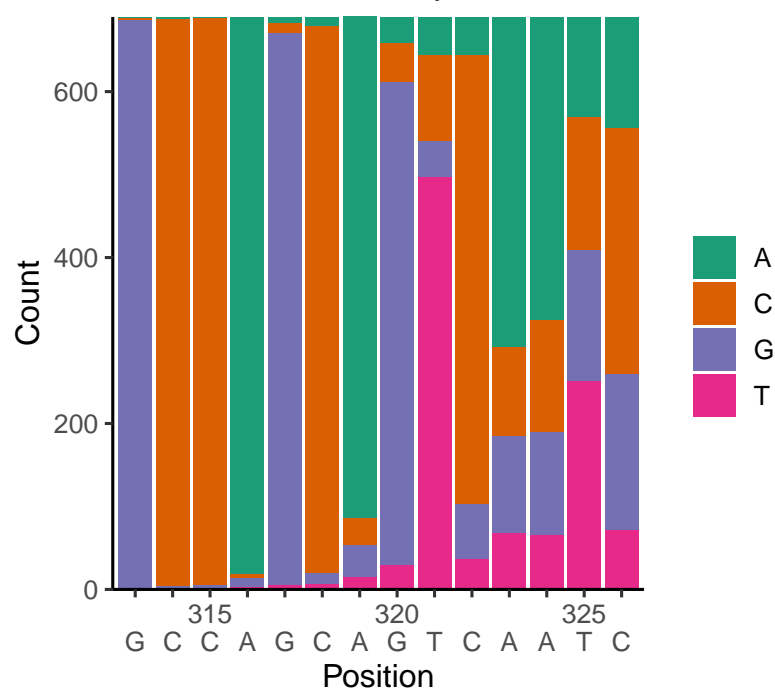
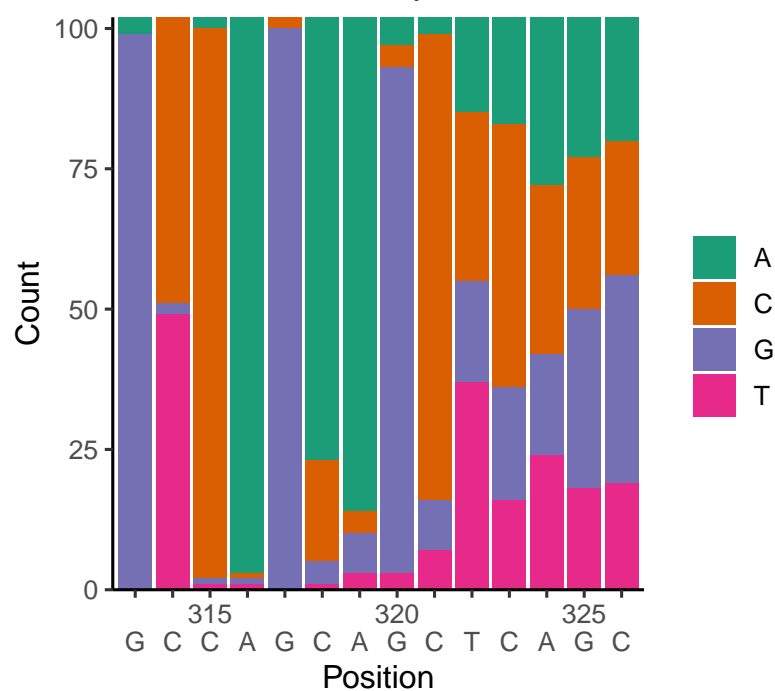


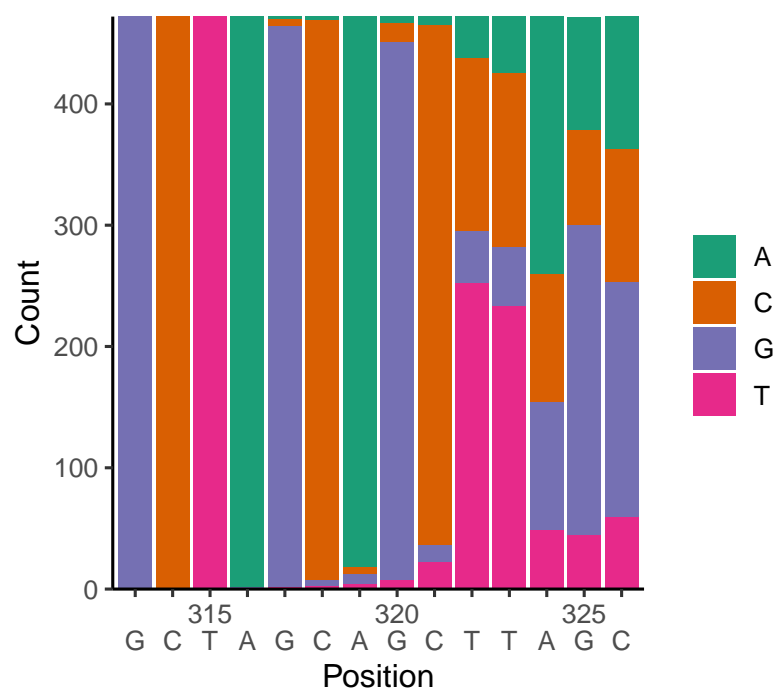
Gene TRBV23-1*ap01_T304C



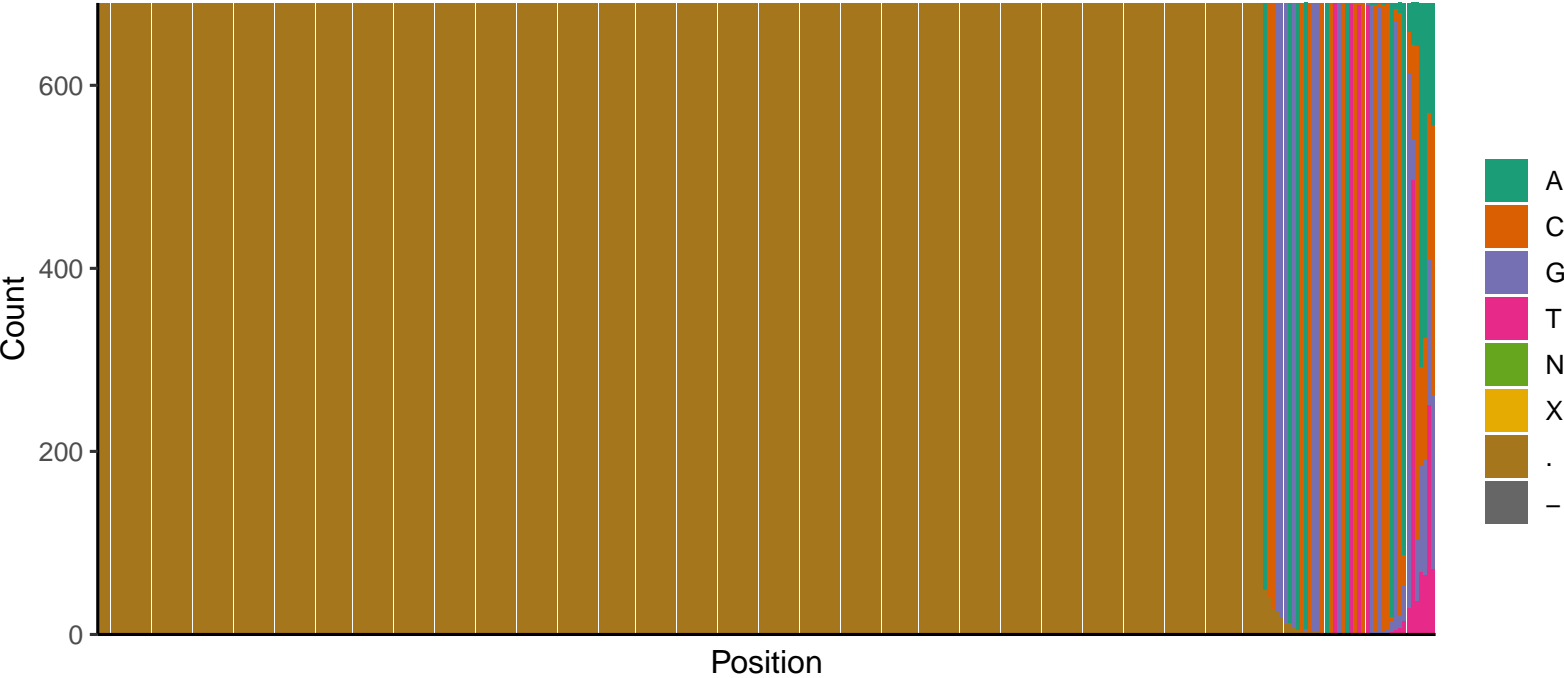
Gene TRBV7-1*ap01_T296C



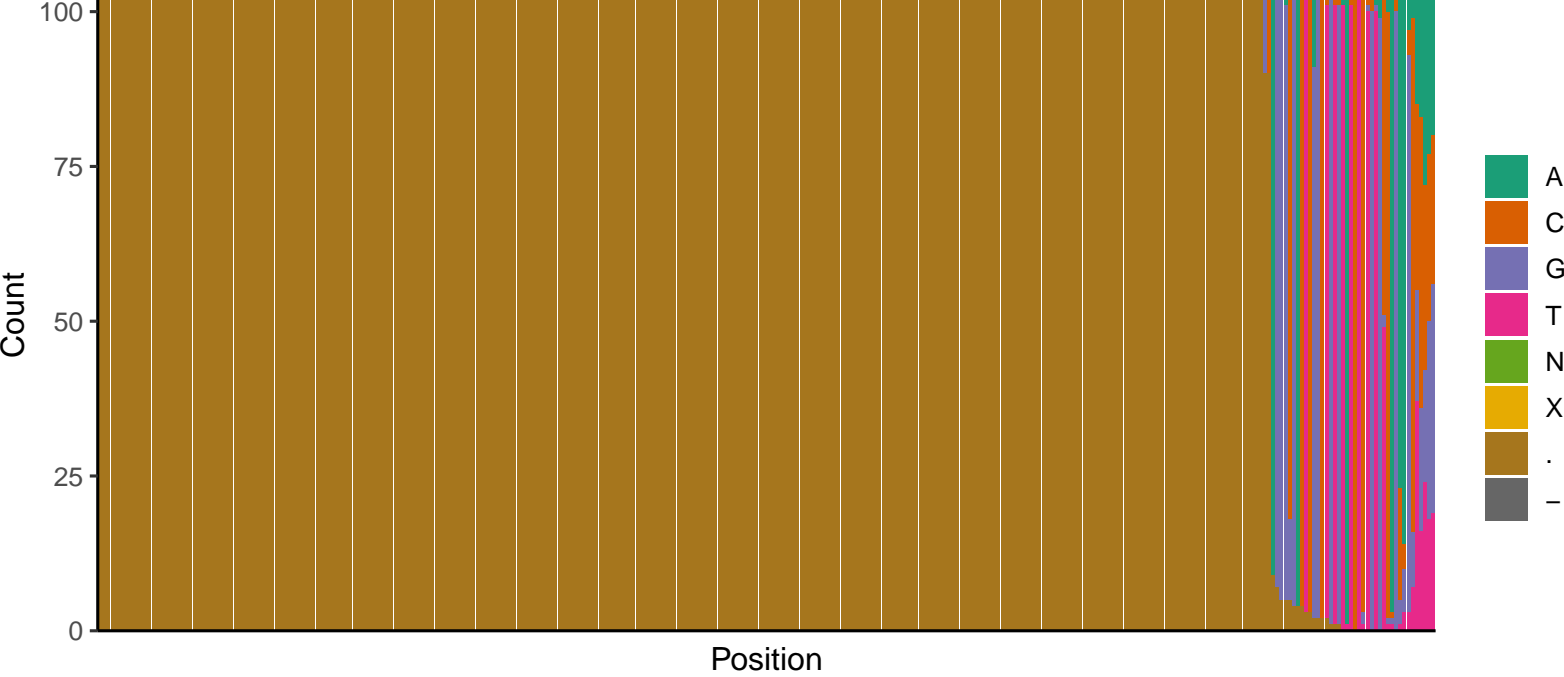
Gene TRBV7-7*ap01_C315T



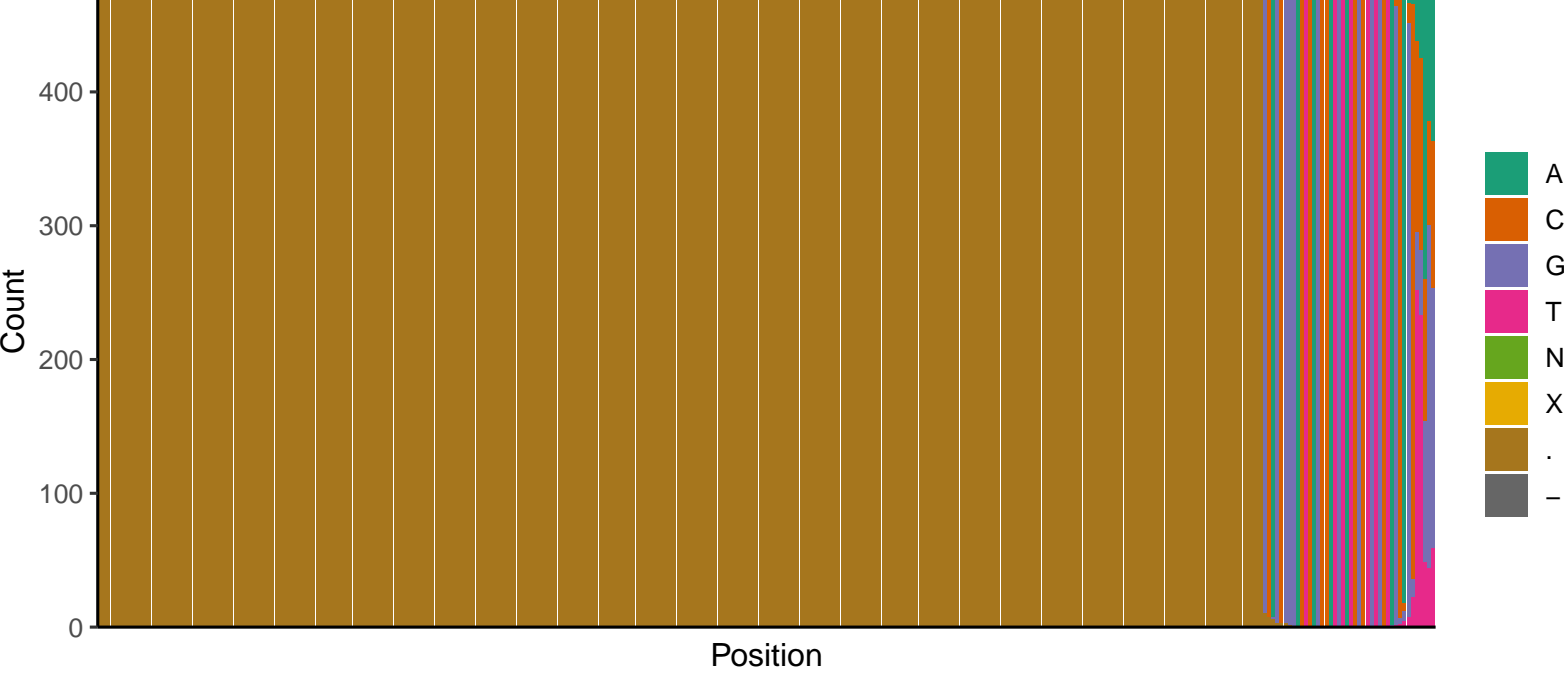
Gene TRBV23-1*ap01_T304C



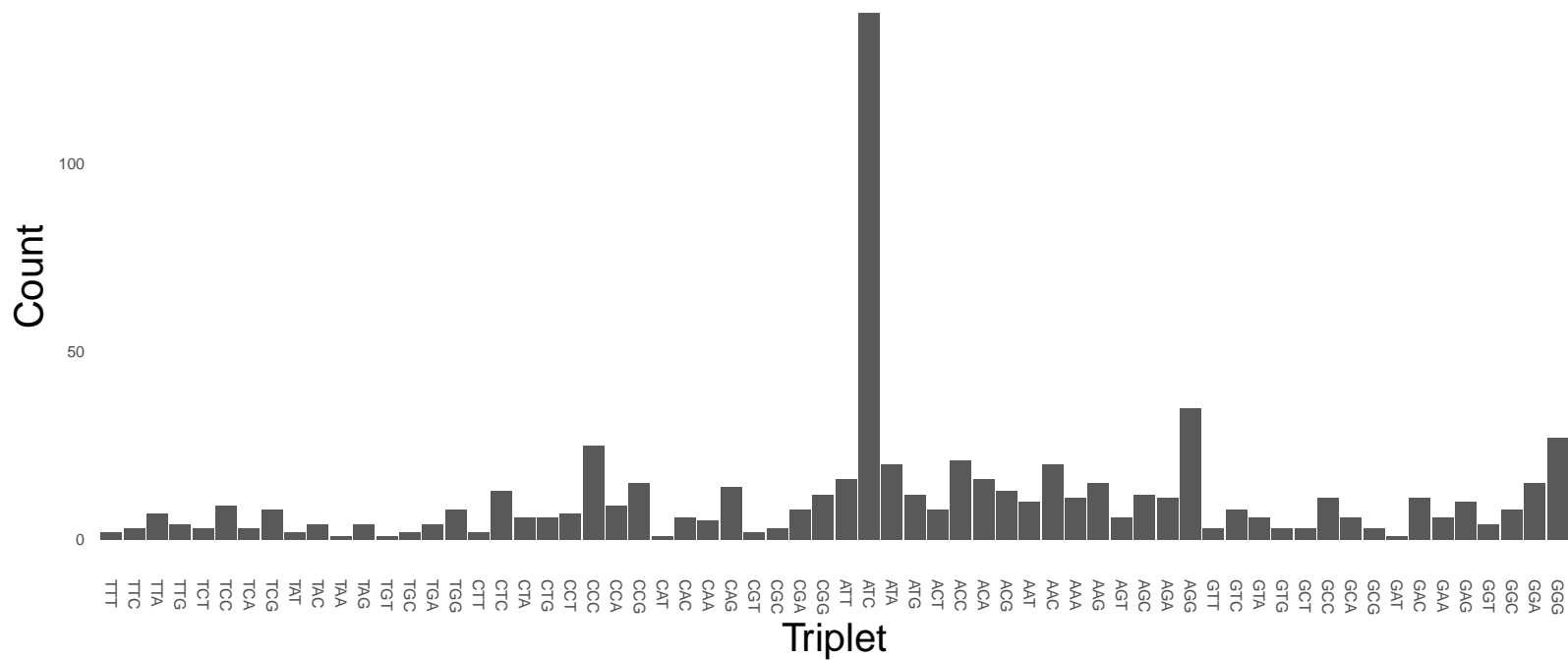
Gene TRBV7-1*ap01_T296C



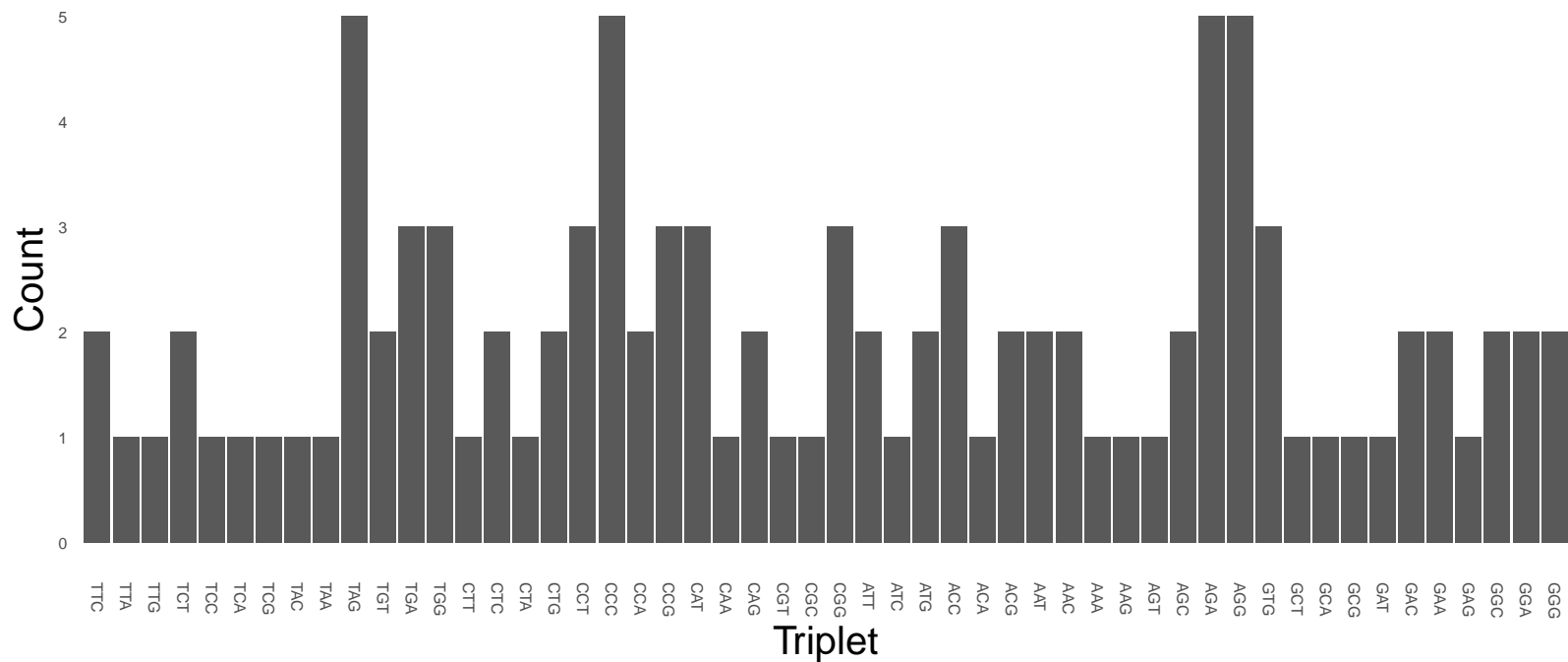
Gene TRBV7-7*ap01_C315T



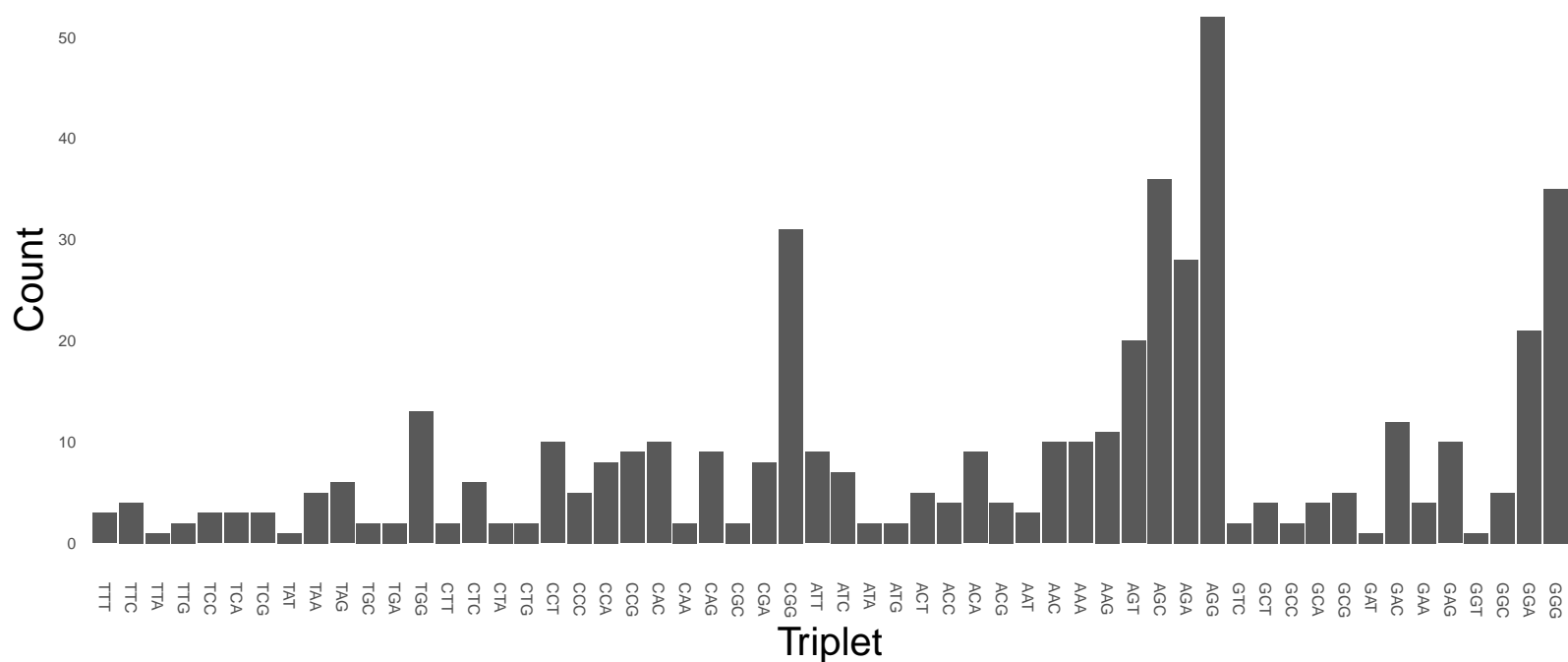
TRBV23–1*ap01_T304C– Final 3 nucleotides as a triplet



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

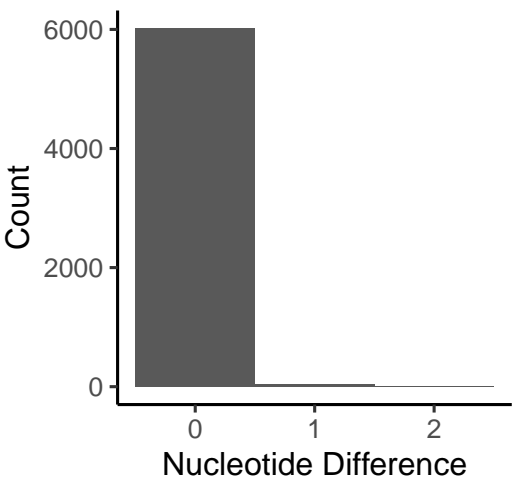


TRBV7–7*ap01_C315T– Final 3 nucleotides as a triplet



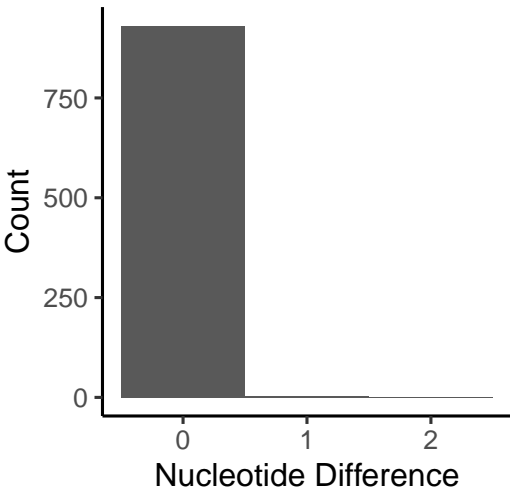
TRBV20-1*ap01

6059 sequences assigned
6017 (99.3%) exact matches, in which:
5993 unique CDR3
13 unique J



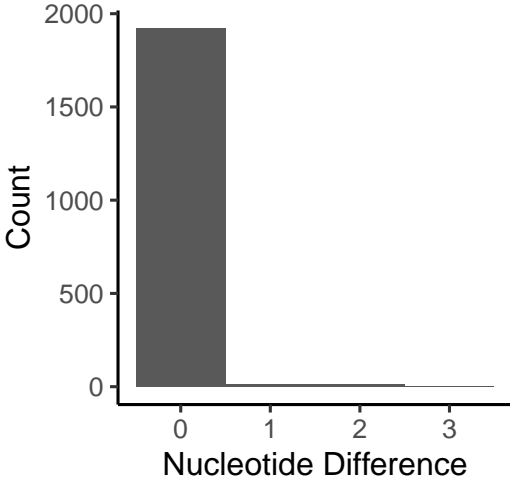
TRBV10-2*ap01

936 sequences assigned
931 (99.5%) exact matches, in which:
926 unique CDR3
13 unique J



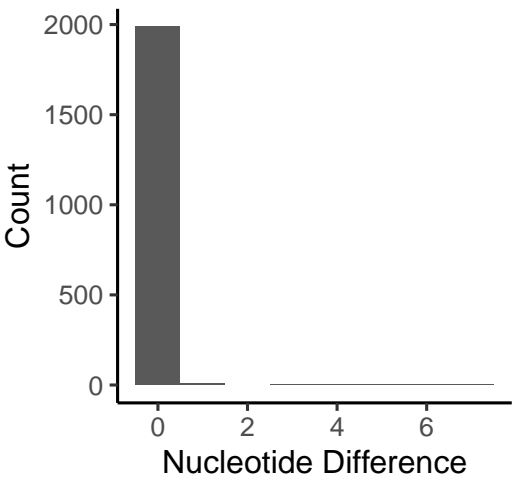
TRBV13*ap01

1953 sequences assigned
1921 (98.4%) exact matches, in which:
1901 unique CDR3
13 unique J



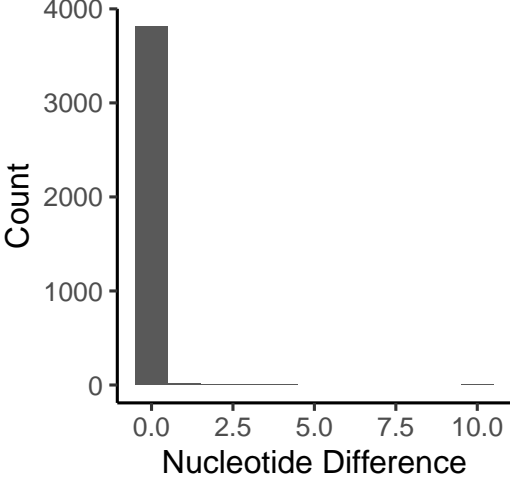
TRBV10-1*ap01

2005 sequences assigned
1988 (99.2%) exact matches, in which:
1974 unique CDR3
13 unique J



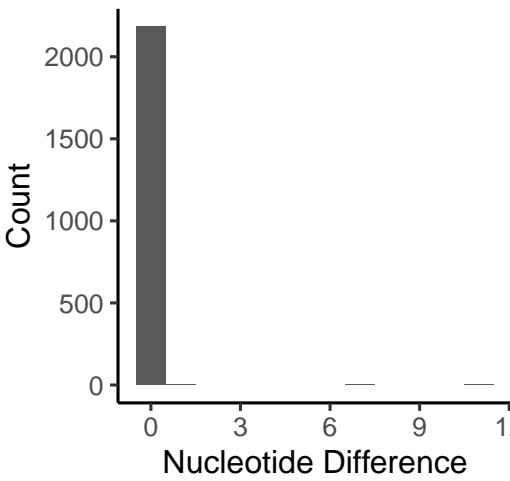
TRBV10-3*ap01

3834 sequences assigned
3810 (99.4%) exact matches, in which:
3790 unique CDR3
13 unique J



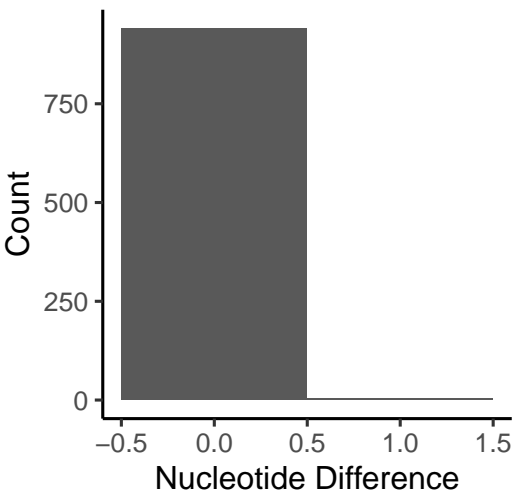
TRBV14*ap01

2191 sequences assigned
2183 (99.6%) exact matches, in which:
2171 unique CDR3
13 unique J



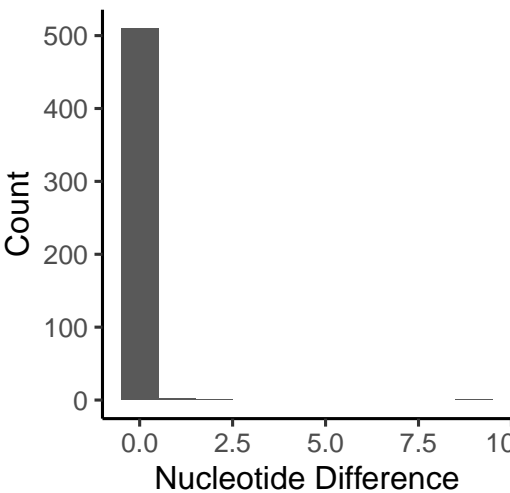
TRBV20-1*ap02

946 sequences assigned
941 (99.5%) exact matches, in which:
937 unique CDR3
13 unique J



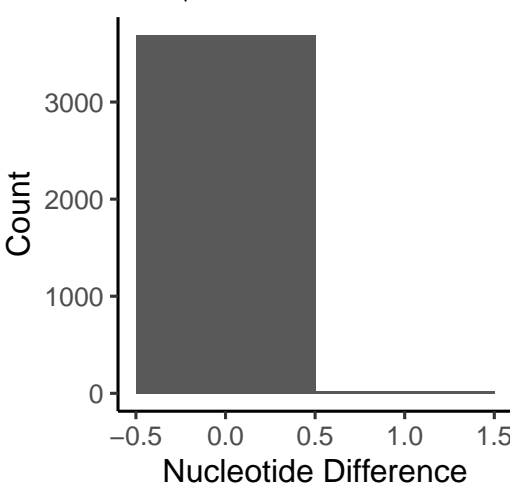
TRBV1*ap01

514 sequences assigned
510 (99.2%) exact matches, in which:
503 unique CDR3
13 unique J



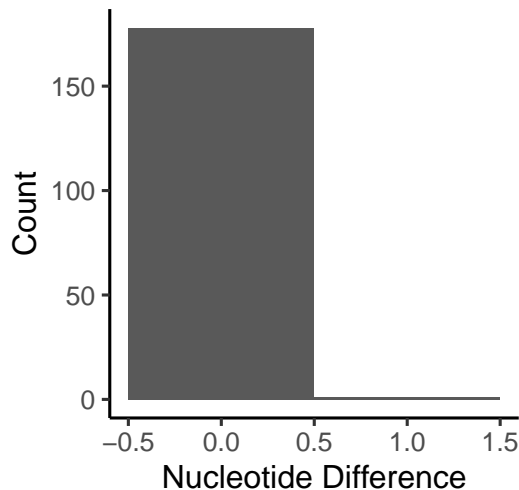
TRBV15*ap02

3712 sequences assigned
3690 (99.4%) exact matches, in which:
3664 unique CDR3
13 unique J



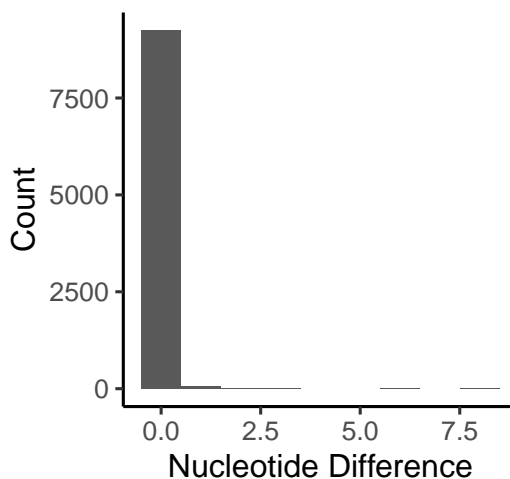
TRBV16*ap01

179 sequences assigned
178 (99.4%) exact matches, in which:
178 unique CDR3
13 unique J



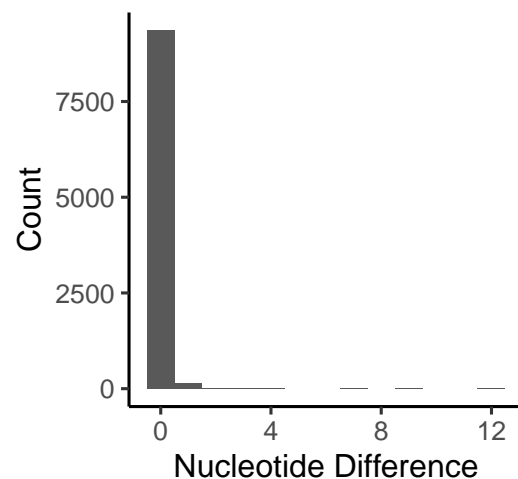
TRBV2*ap01

9312 sequences assigned
9244 (99.3%) exact matches, in which:
9185 unique CDR3
13 unique J



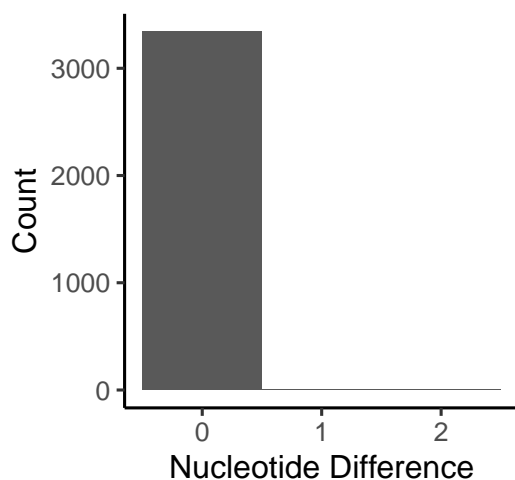
TRBV30*ap01

9519 sequences assigned
9357 (98.3%) exact matches, in which:
9204 unique CDR3
13 unique J



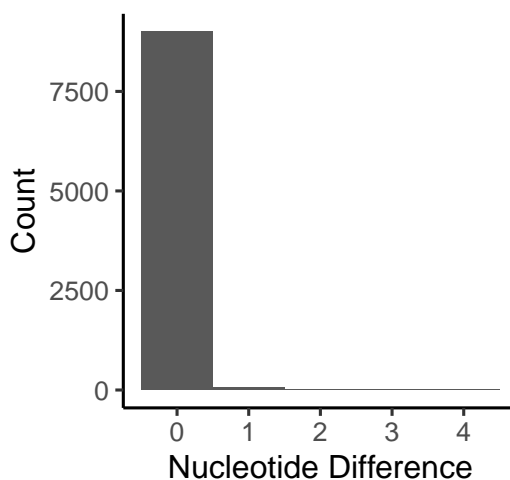
TRBV18*ap01

3346 sequences assigned
3341 (99.9%) exact matches, in which:
3336 unique CDR3
13 unique J



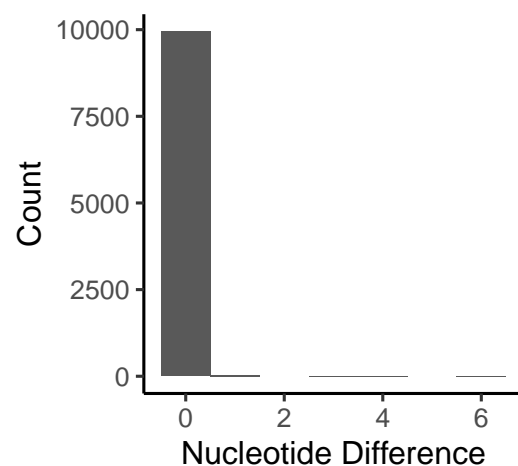
TRBV27*ap01

9069 sequences assigned
8999 (99.2%) exact matches, in which:
8956 unique CDR3
13 unique J



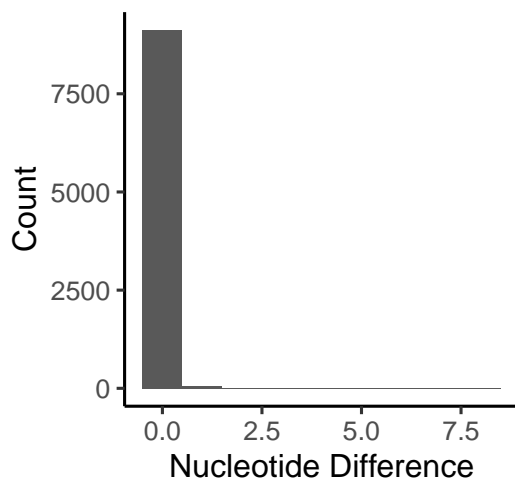
TRBV9*ap01

9992 sequences assigned
9948 (99.6%) exact matches, in which:
9910 unique CDR3
13 unique J



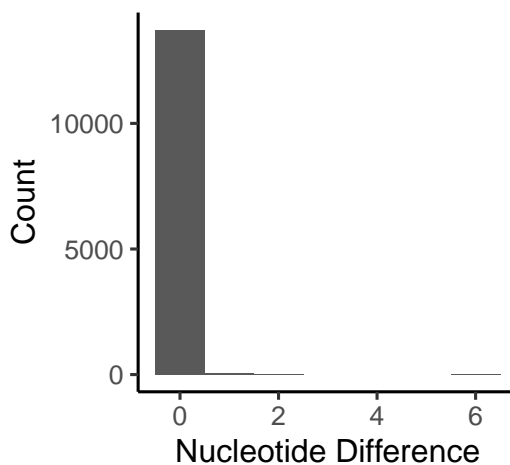
TRBV19*ap01

9197 sequences assigned
9123 (99.2%) exact matches, in which:
9099 unique CDR3
13 unique J



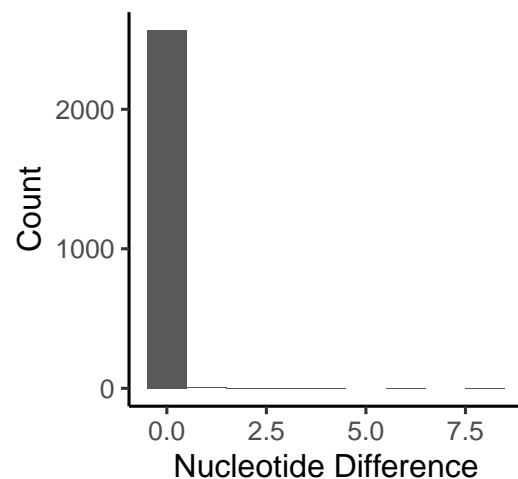
TRBV28*ap01

13787 sequences assigned
13727 (99.6%) exact matches, in which:
13684 unique CDR3
13 unique J



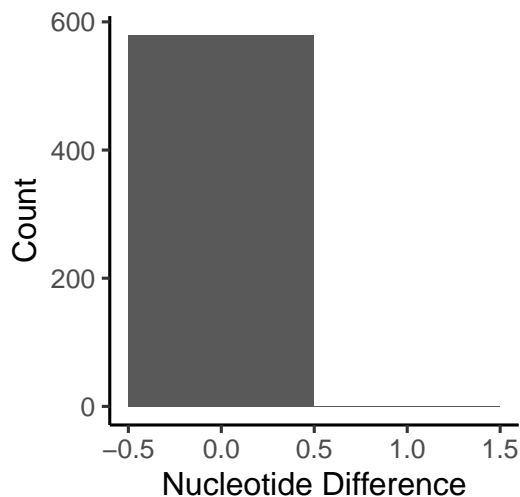
TRBV21-1*ap01

2583 sequences assigned
2568 (99.4%) exact matches, in which:
2560 unique CDR3
13 unique J



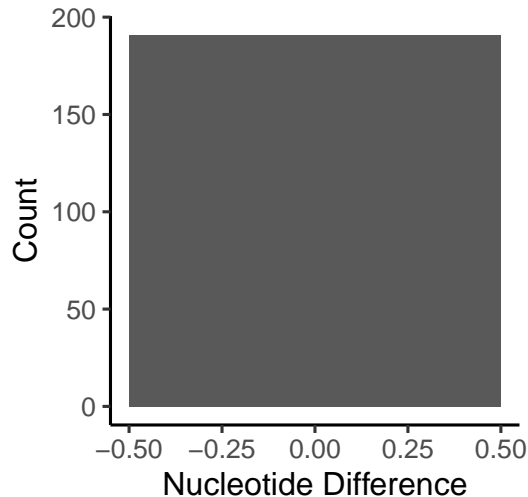
TRBV11-1*ap01

581 sequences assigned
580 (99.8%) exact matches, in which:
580 unique CDR3
13 unique J



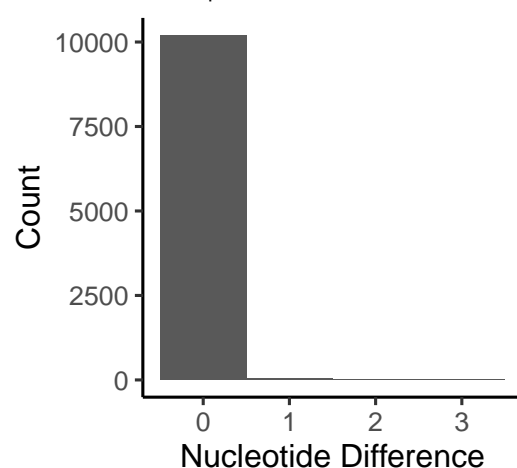
TRBV12-1*ap01

191 sequences assigned
191 (100%) exact matches, in which:
191 unique CDR3
13 unique J



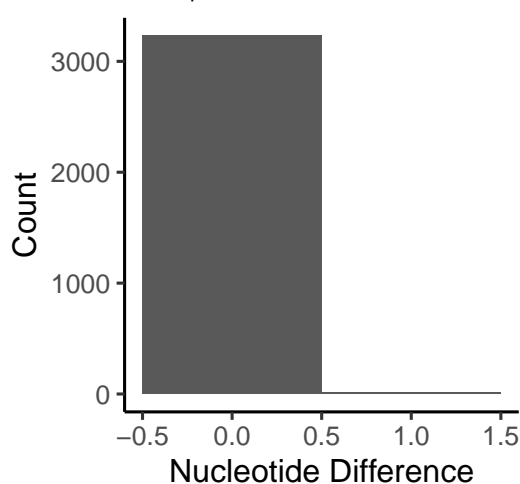
TRBV12-34*ap01

10262 sequences assigned
10203 (99.4%) exact matches, in which:
10141 unique CDR3
13 unique J



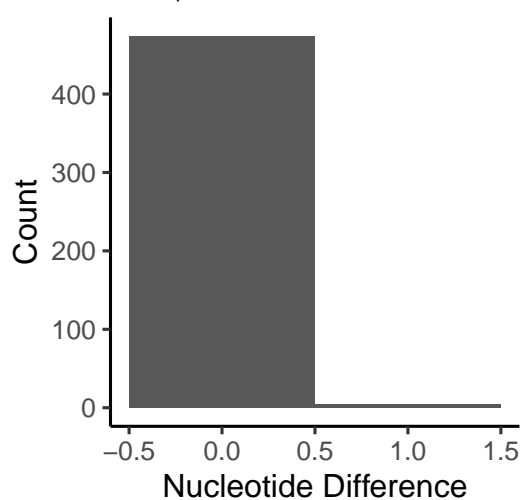
TRBV11-2*ap01

3243 sequences assigned
3231 (99.6%) exact matches, in which:
3219 unique CDR3
13 unique J



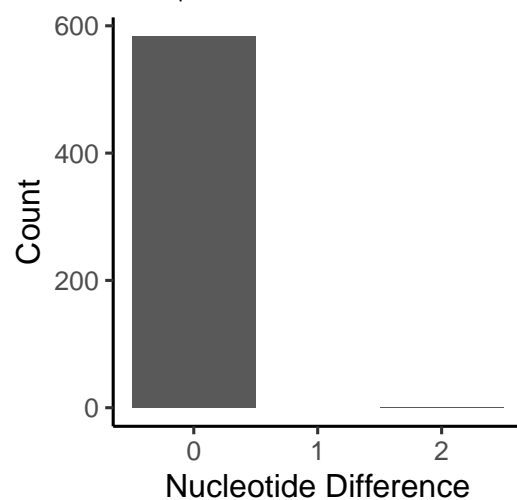
TRBV12-2*ap01

478 sequences assigned
474 (99.2%) exact matches, in which:
473 unique CDR3
13 unique J



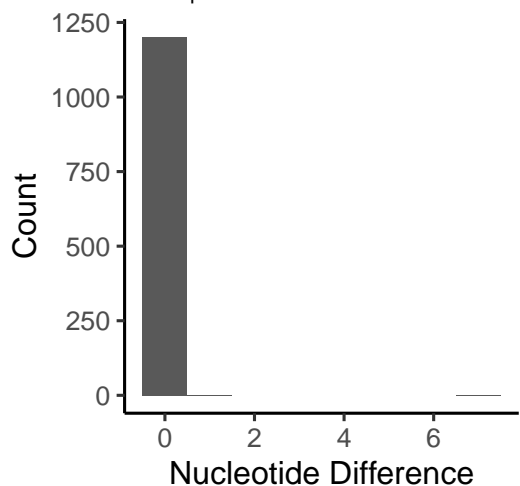
TRBV23-1*ap01

585 sequences assigned
584 (99.8%) exact matches, in which:
581 unique CDR3
13 unique J



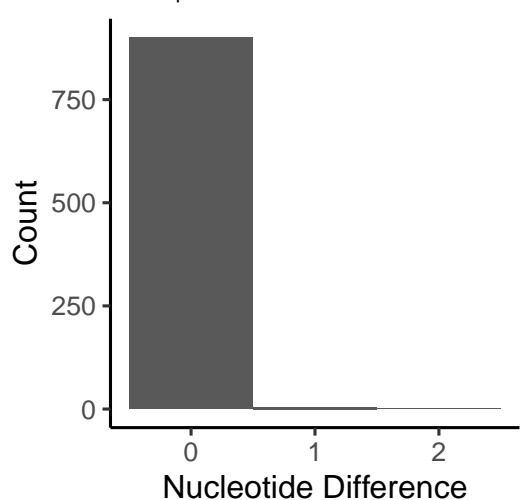
TRBV11-3*ap01

1203 sequences assigned
1201 (99.8%) exact matches, in which:
1193 unique CDR3
13 unique J



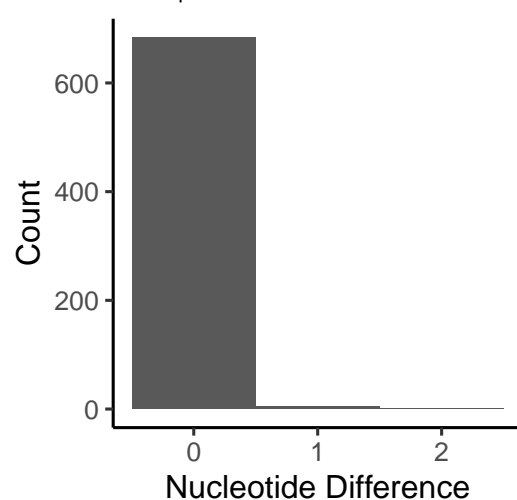
TRBV12-5*ap01

907 sequences assigned
901 (99.3%) exact matches, in which:
891 unique CDR3
13 unique J



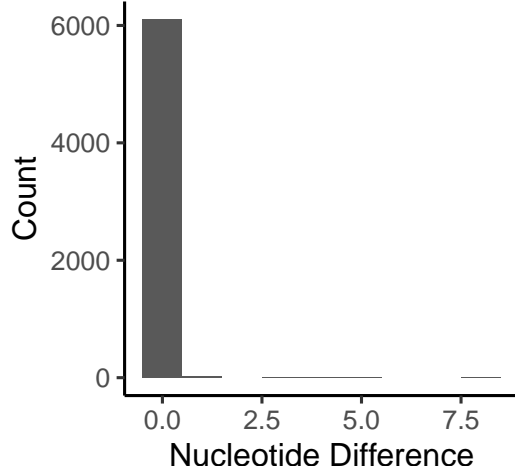
TRBV23-1*ap01_T304C

690 sequences assigned
684 (99.1%) exact matches, in which:
680 unique CDR3
13 unique J



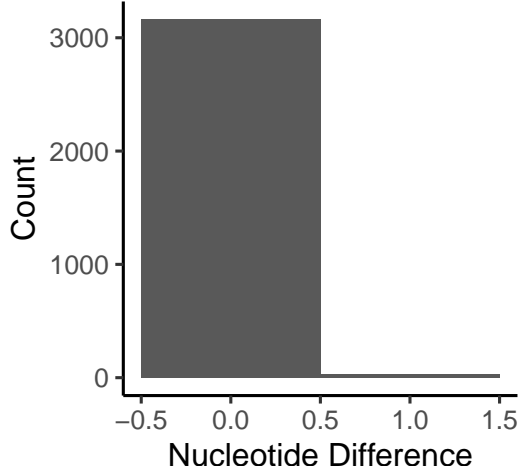
TRBV3-12*ap01

6136 sequences assigned
6103 (99.5%) exact matches, in which:
6082 unique CDR3
13 unique J



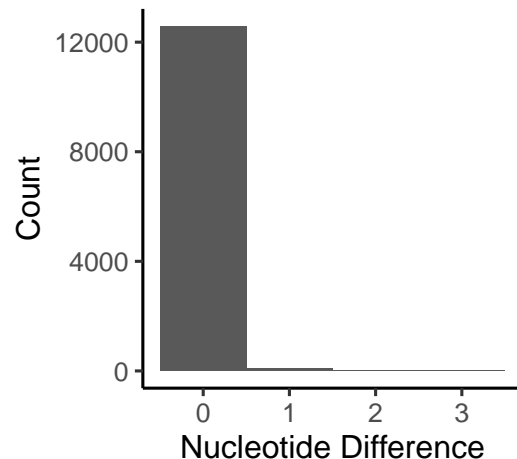
TRBV4-2*ap01

3193 sequences assigned
3162 (99%) exact matches, in which:
3138 unique CDR3
13 unique J



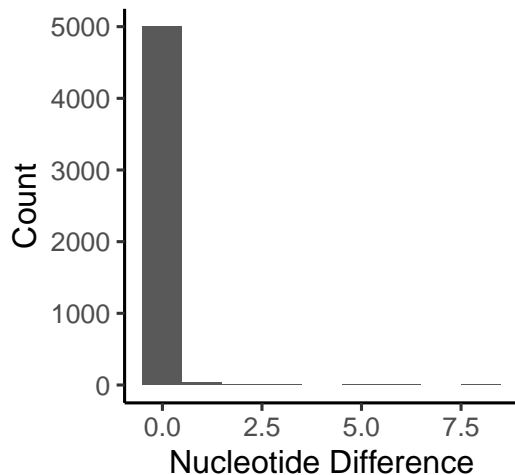
TRBV5-1*ap01

12661 sequences assigned
12584 (99.4%) exact matches, in which:
12477 unique CDR3
13 unique J



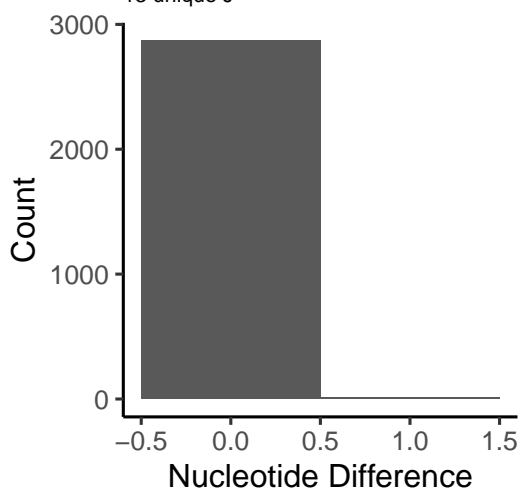
TRBV24-1*ap01

5048 sequences assigned
4999 (99%) exact matches, in which:
4968 unique CDR3
13 unique J



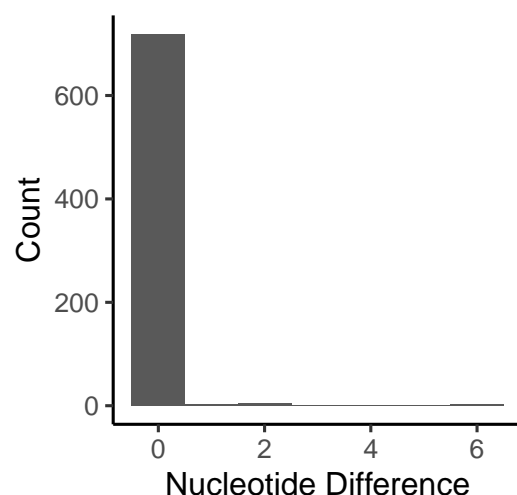
TRBV4-3*ap01

2884 sequences assigned
2869 (99.5%) exact matches, in which:
2851 unique CDR3
13 unique J



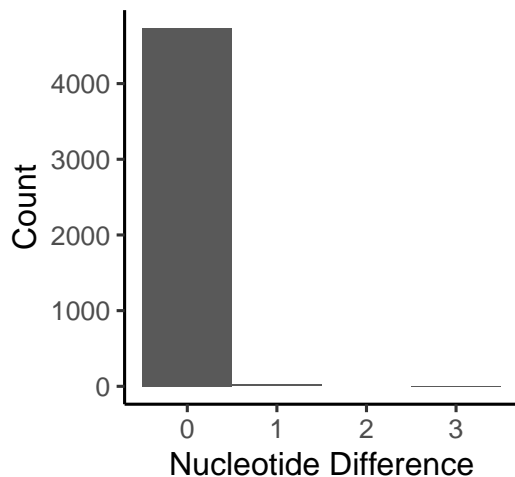
TRBV5-3*ap01

731 sequences assigned
719 (98.4%) exact matches, in which:
715 unique CDR3
13 unique J



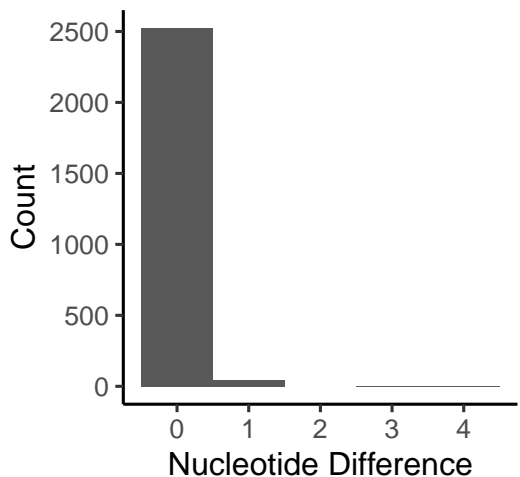
TRBV4-1*ap01

4759 sequences assigned
4734 (99.5%) exact matches, in which:
4694 unique CDR3
13 unique J



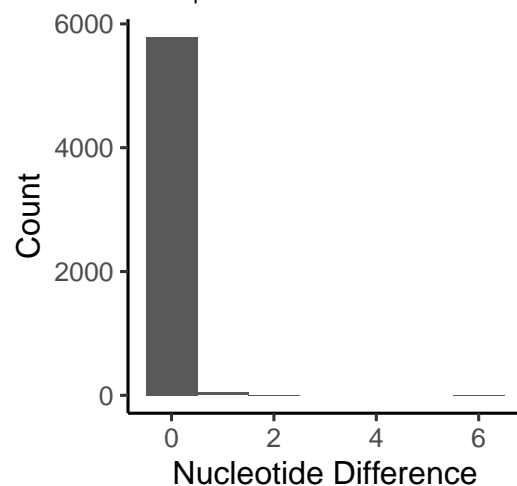
TRBV25-1*ap01

2570 sequences assigned
2524 (98.2%) exact matches, in which:
2504 unique CDR3
13 unique J



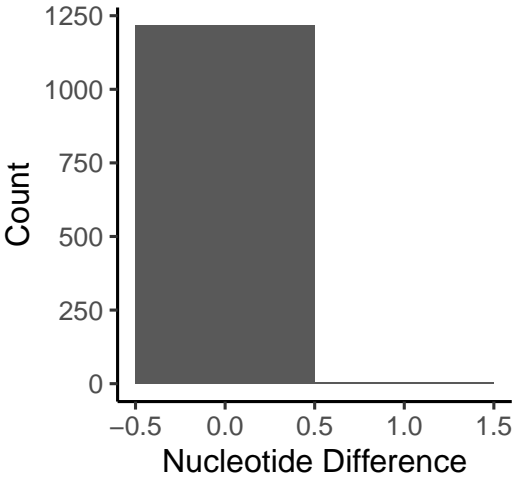
TRBV5-4*ap01

5838 sequences assigned
5787 (99.1%) exact matches, in which:
5749 unique CDR3
13 unique J



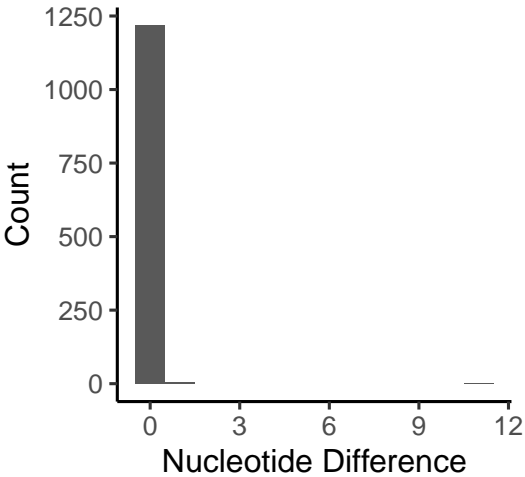
TRBV5-5*ap01

1221 sequences assigned
1217 (99.7%) exact matches, in which:
1211 unique CDR3
13 unique J



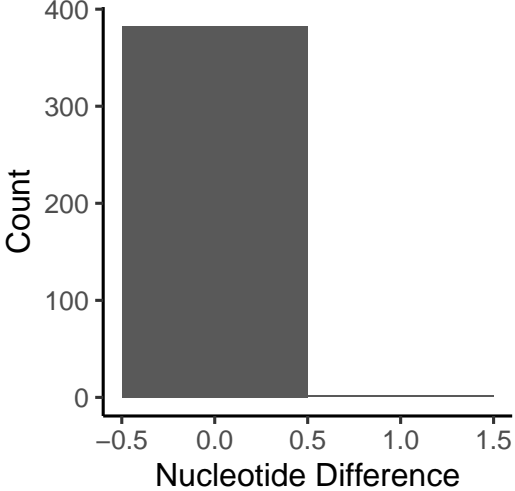
TRBV5-8*ap01

1225 sequences assigned
1218 (99.4%) exact matches, in which:
1210 unique CDR3
13 unique J



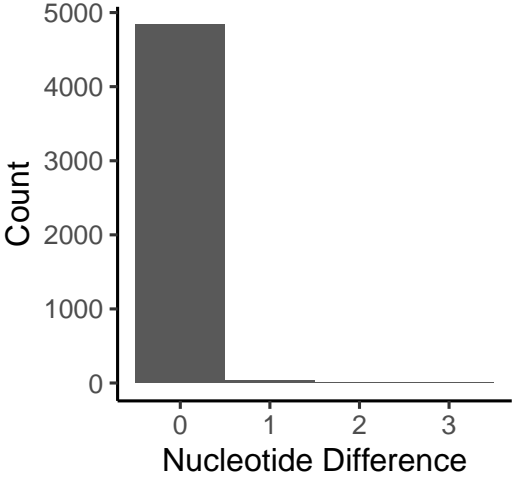
TRBV6-7*ap01

385 sequences assigned
383 (99.5%) exact matches, in which:
379 unique CDR3
13 unique J



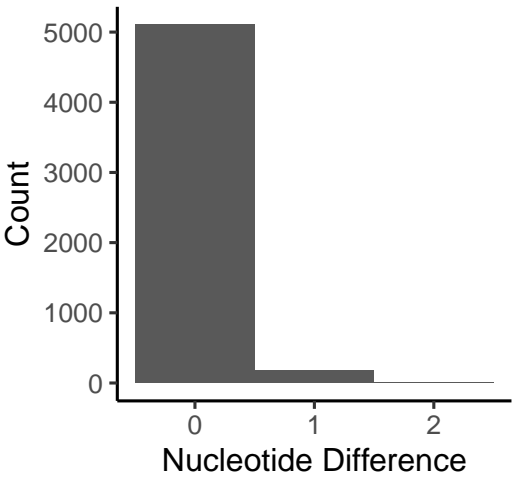
TRBV5-6*ap01

4869 sequences assigned
4836 (99.3%) exact matches, in which:
4778 unique CDR3
13 unique J



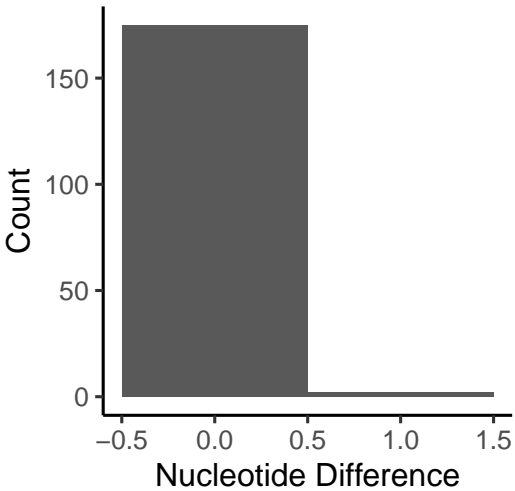
TRBV6-1*ap01

5293 sequences assigned
5105 (96.4%) exact matches, in which:
5054 unique CDR3
13 unique J



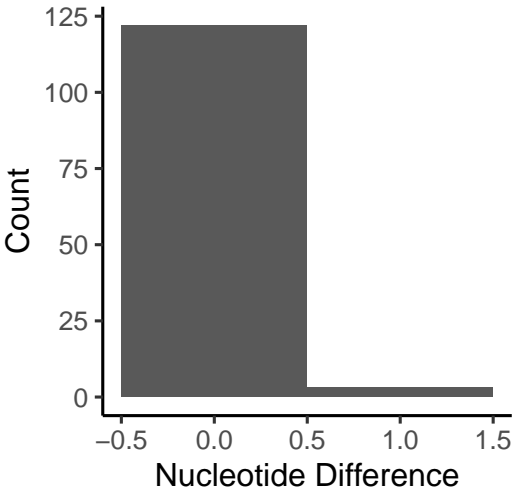
TRBV6-8*ap01

177 sequences assigned
175 (98.9%) exact matches, in which:
172 unique CDR3
13 unique J



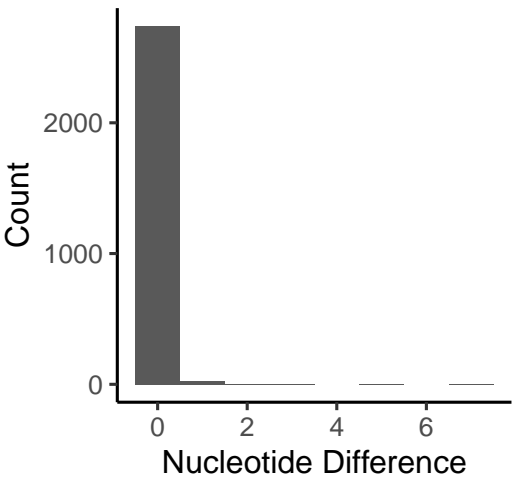
TRBV5-7*ap01

125 sequences assigned
122 (97.6%) exact matches, in which:
120 unique CDR3
13 unique J



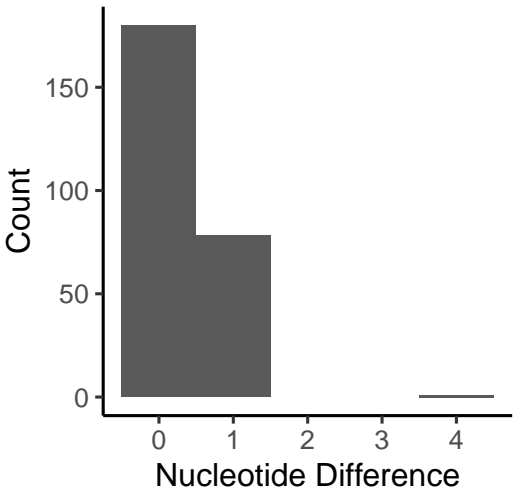
TRBV6-4*ap01

2770 sequences assigned
2740 (98.9%) exact matches, in which:
2720 unique CDR3
13 unique J



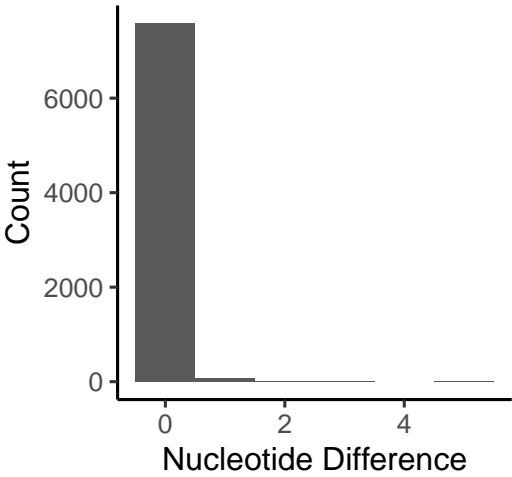
TRBV6-9*ap01

259 sequences assigned
180 (69.5%) exact matches, in which:
179 unique CDR3
13 unique J



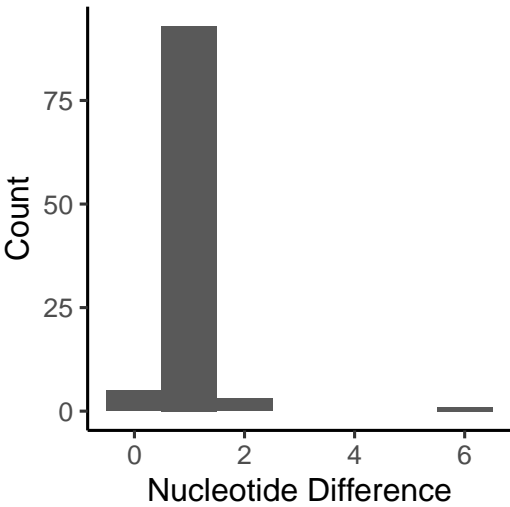
TRBV6-23*ap01

7654 sequences assigned
7582 (99.1%) exact matches, in which:
7473 unique CDR3
13 unique J



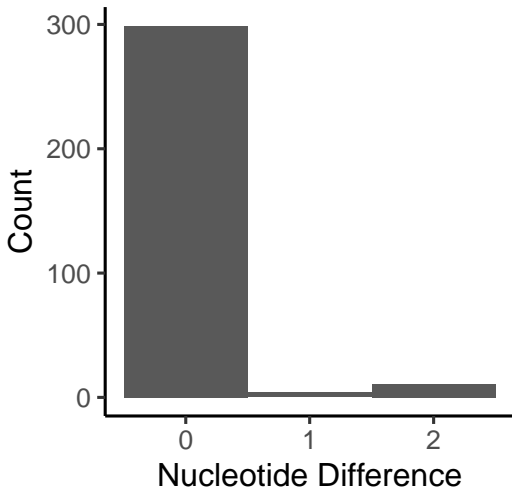
TRBV7-1*ap01_T296C

102 sequences assigned
5 (4.9%) exact matches, in which:
5 unique CDR3
4 unique J



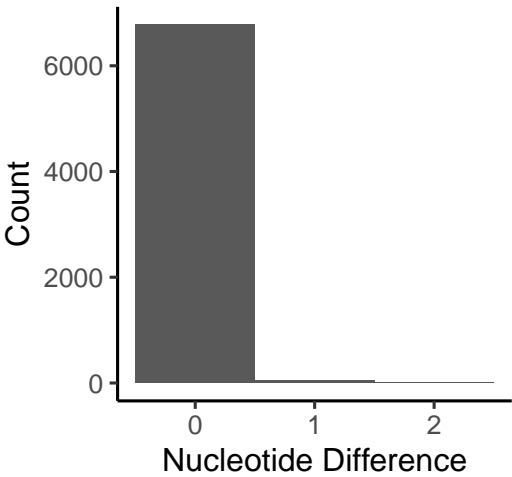
TRBV7-4*ap01

314 sequences assigned
299 (95.2%) exact matches, in which:
295 unique CDR3
13 unique J



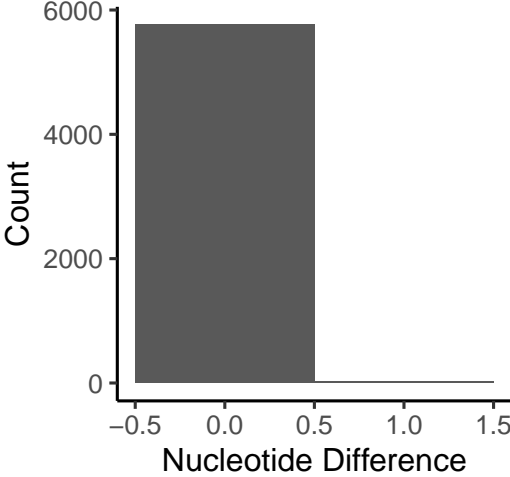
TRBV6-56*ap01

6827 sequences assigned
6776 (99.3%) exact matches, in which:
6686 unique CDR3
13 unique J



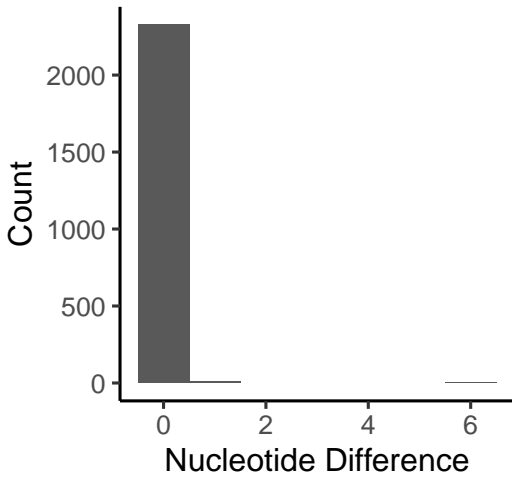
TRBV7-2*ap01

5783 sequences assigned
5763 (99.7%) exact matches, in which:
5740 unique CDR3
13 unique J



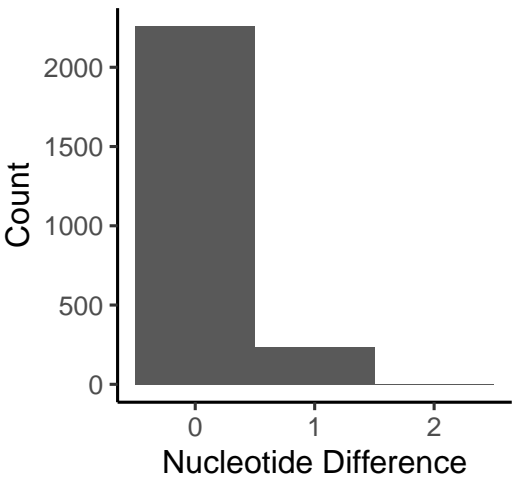
TRBV7-6*ap01

2336 sequences assigned
2327 (99.6%) exact matches, in which:
2312 unique CDR3
13 unique J



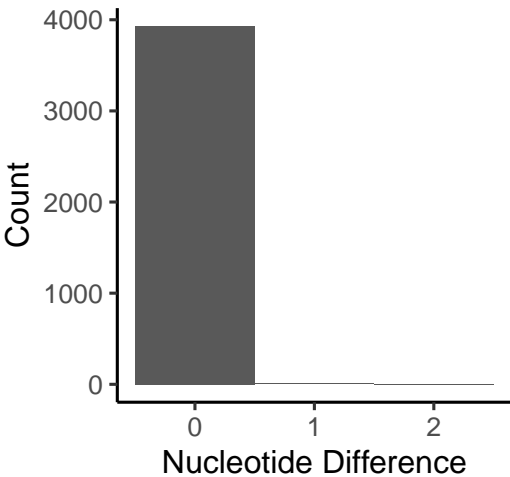
TRBV6-56*ap02

2497 sequences assigned
2260 (90.5%) exact matches, in which:
2237 unique CDR3
13 unique J



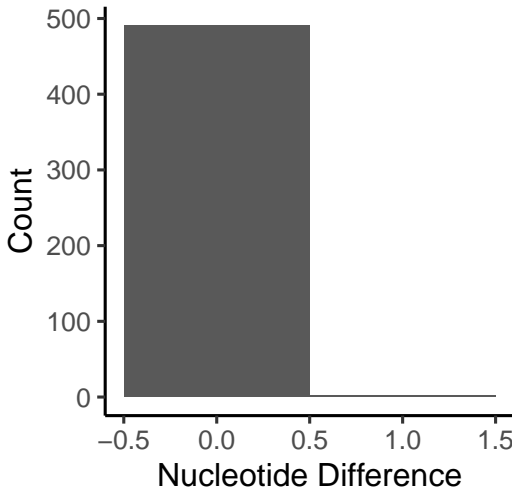
TRBV7-3*ap01

3940 sequences assigned
3931 (99.8%) exact matches, in which:
3925 unique CDR3
13 unique J



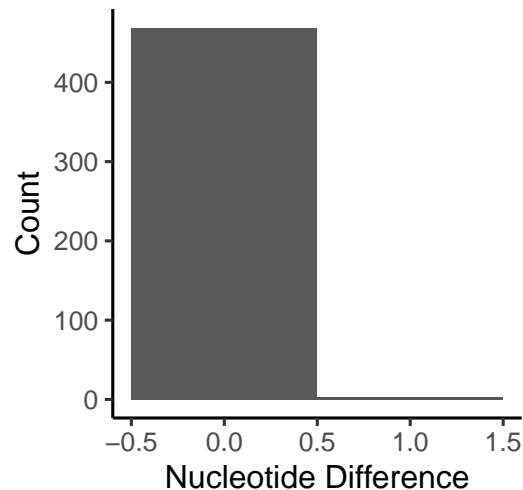
TRBV7-7*ap01

493 sequences assigned
491 (99.6%) exact matches, in which:
488 unique CDR3
12 unique J



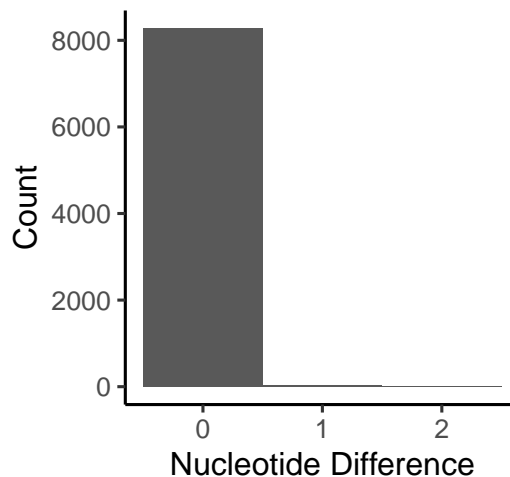
TRBV7-7*ap01_C315T

472 sequences assigned
469 (99.4%) exact matches, in which:
465 unique CDR3
13 unique J



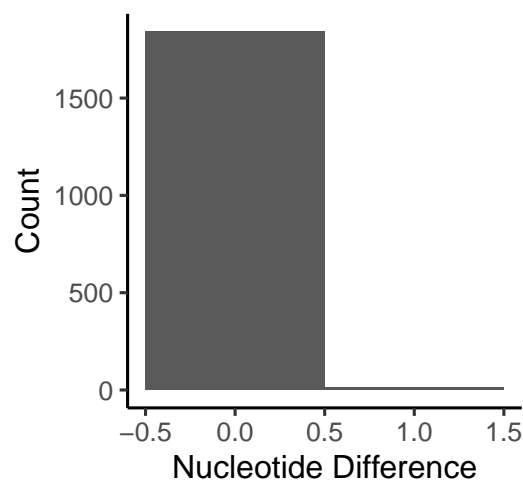
TRBV7-9*ap01

8319 sequences assigned
8275 (99.5%) exact matches, in which:
8231 unique CDR3
13 unique J



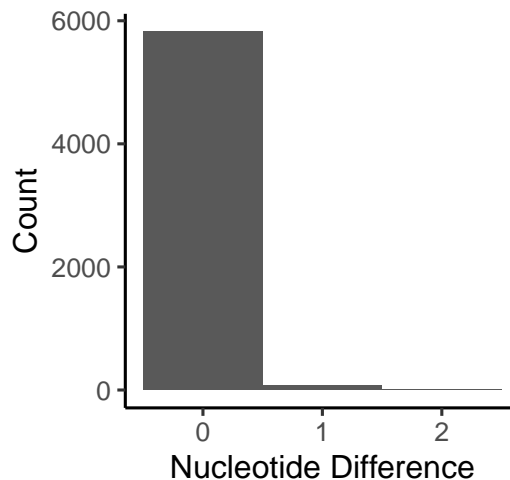
TRBV7-8*ap01

1852 sequences assigned
1841 (99.4%) exact matches, in which:
1835 unique CDR3
13 unique J



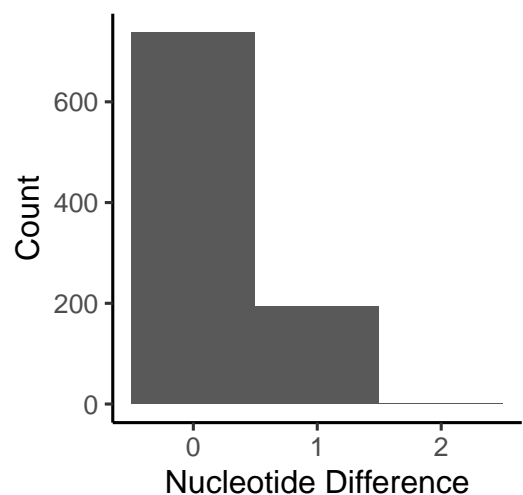
TRBV29-1*ap01

5895 sequences assigned
5822 (98.8%) exact matches, in which:
5724 unique CDR3
13 unique J



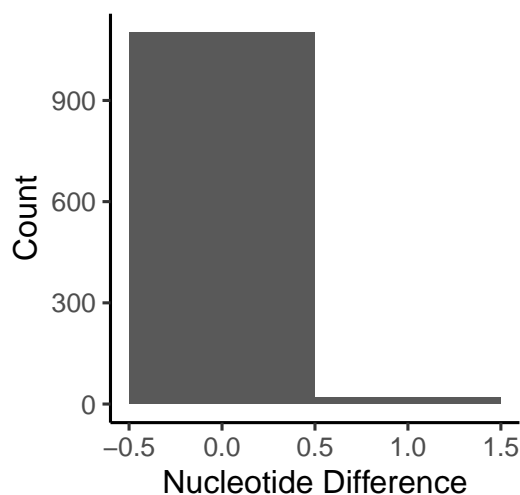
TRBV7-8*ap03

933 sequences assigned
738 (79.1%) exact matches, in which:
731 unique CDR3
13 unique J

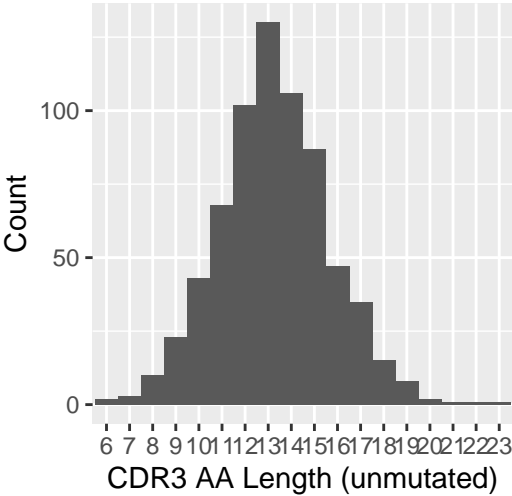


TRBV29-1*ap02

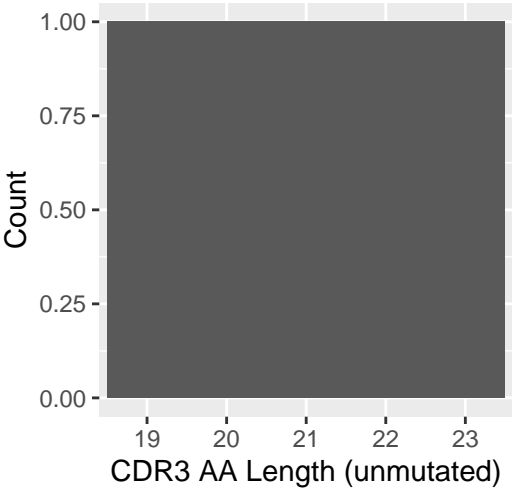
1121 sequences assigned
1102 (98.3%) exact matches, in which:
1087 unique CDR3
13 unique J



TRBV23-1*ap01_T304C



TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T

