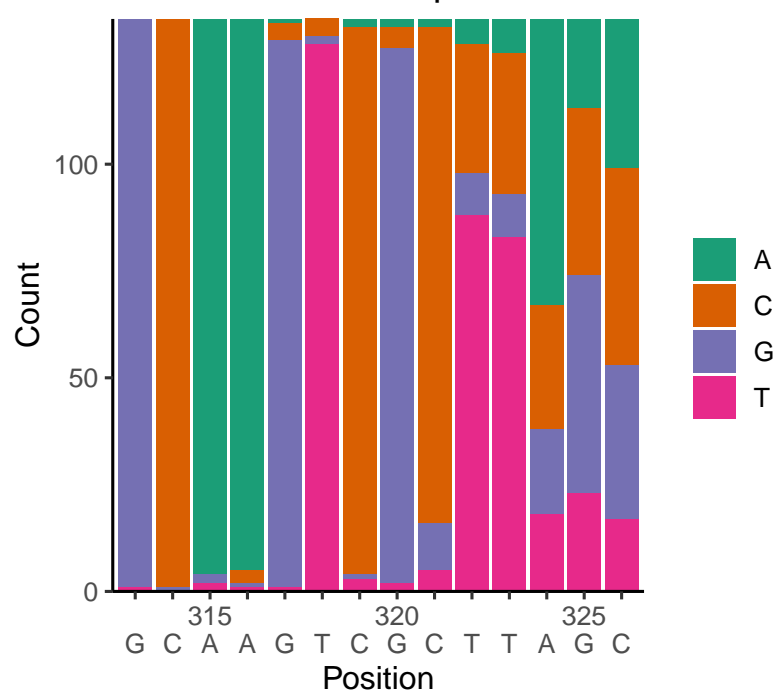
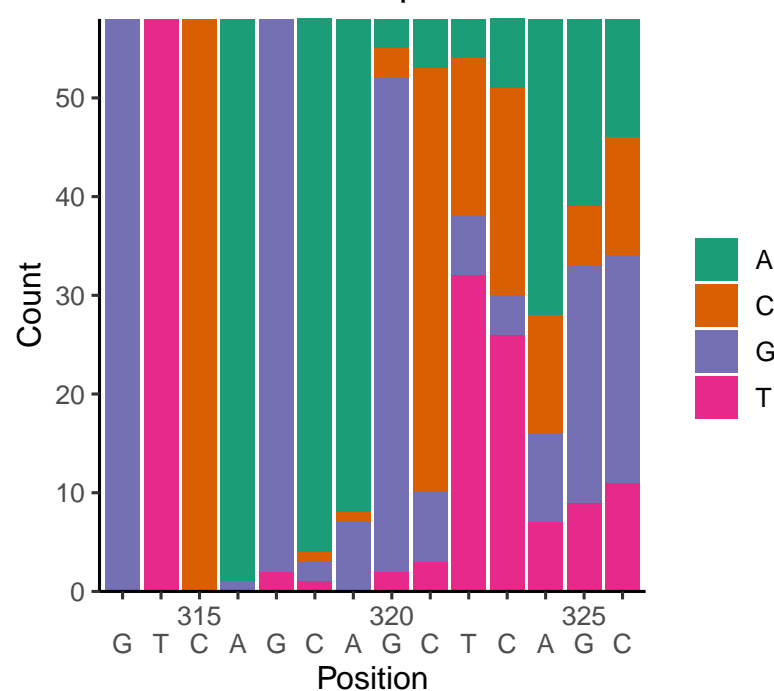


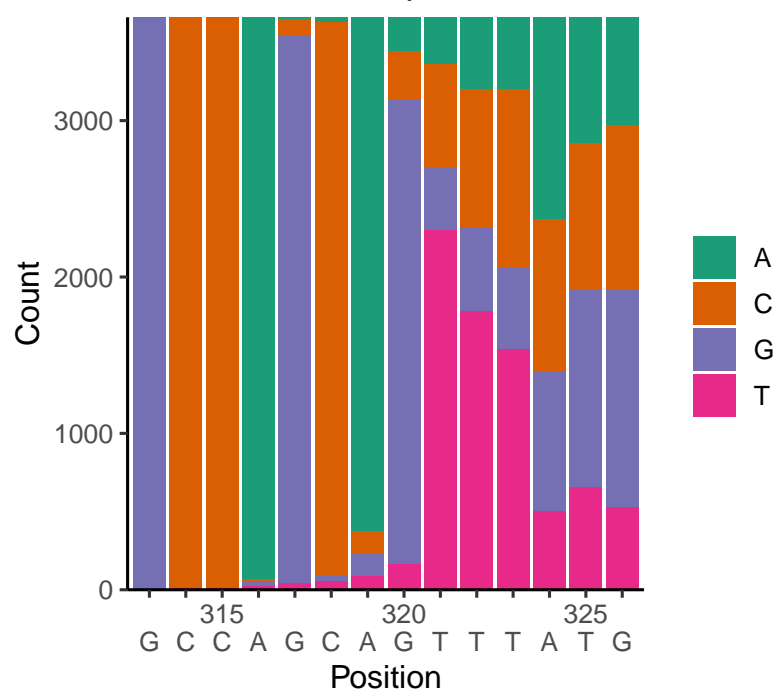
Gene TRBV12-2*ap01_G301A



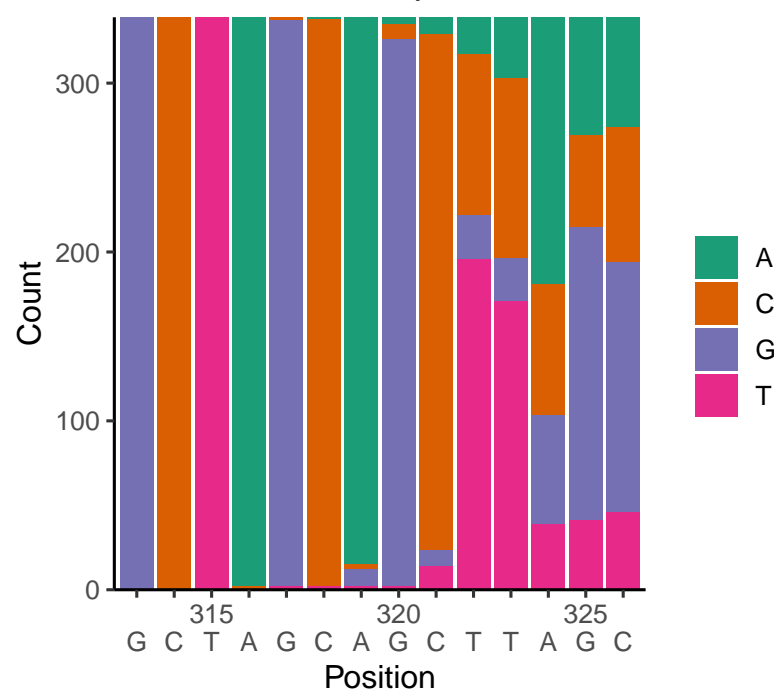
Gene TRBV7-1*ap01_G291C_T296C_C3



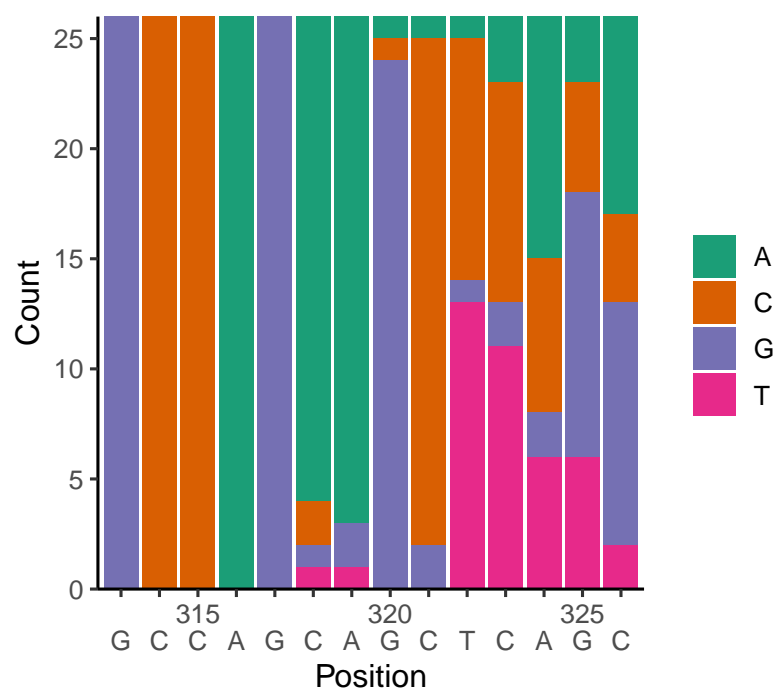
Gene TRBV28*ap01_A297G



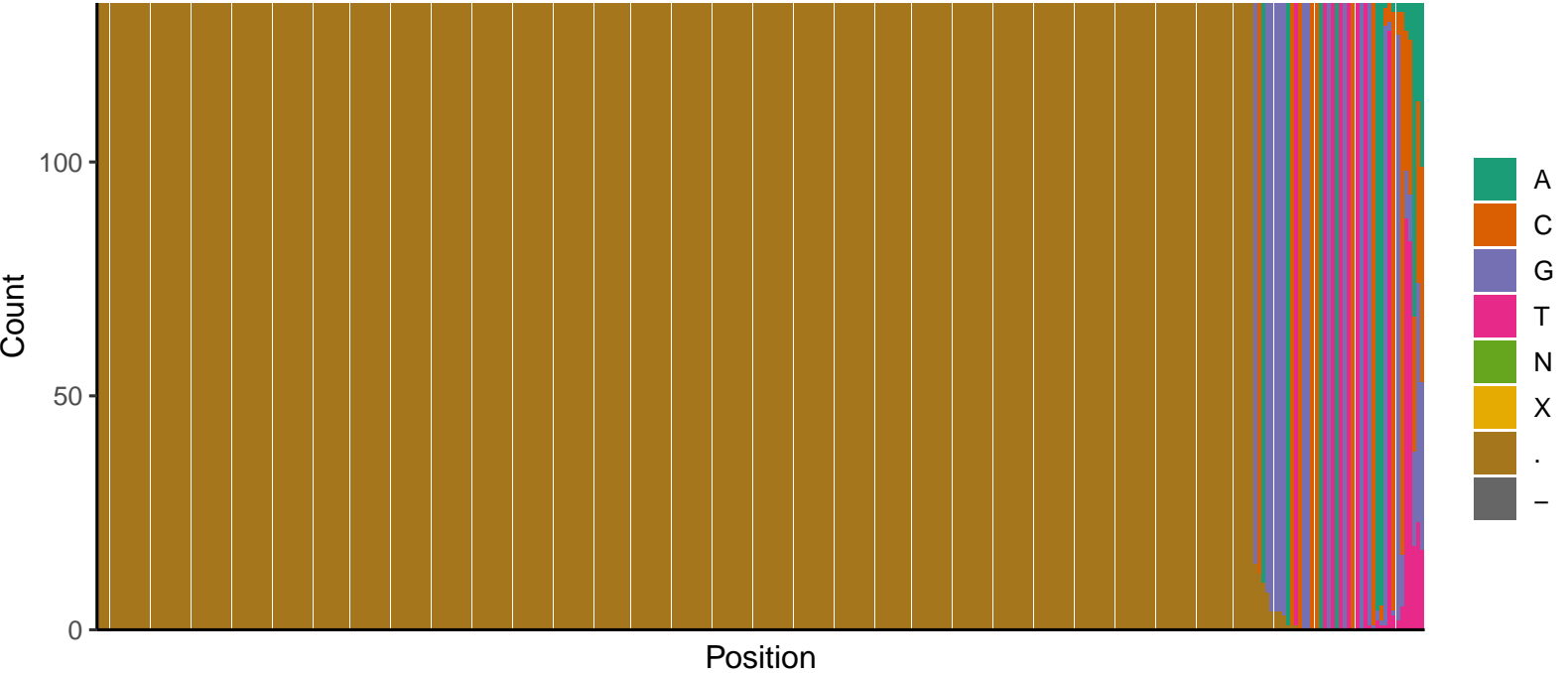
Gene TRBV7-7*ap01_C315T



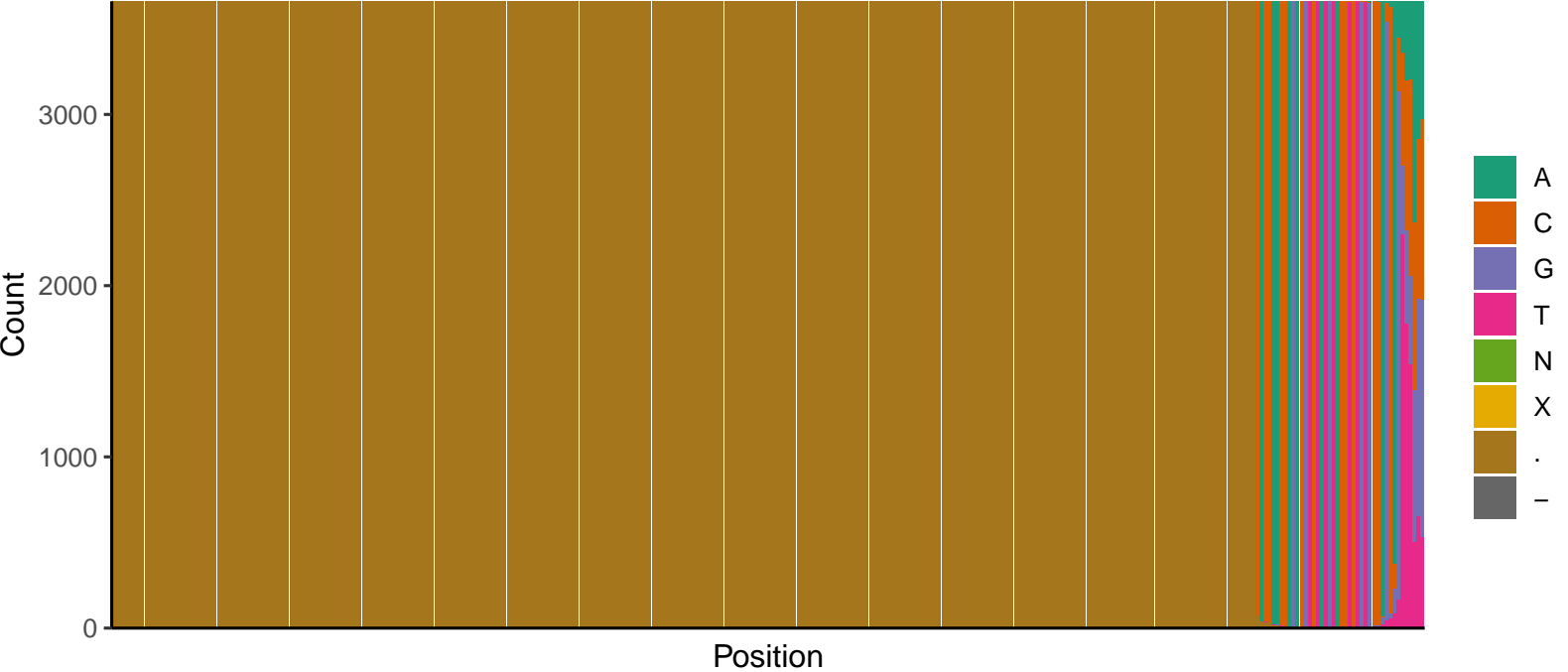
Gene TRBV7-1*ap01_G291C_T296C



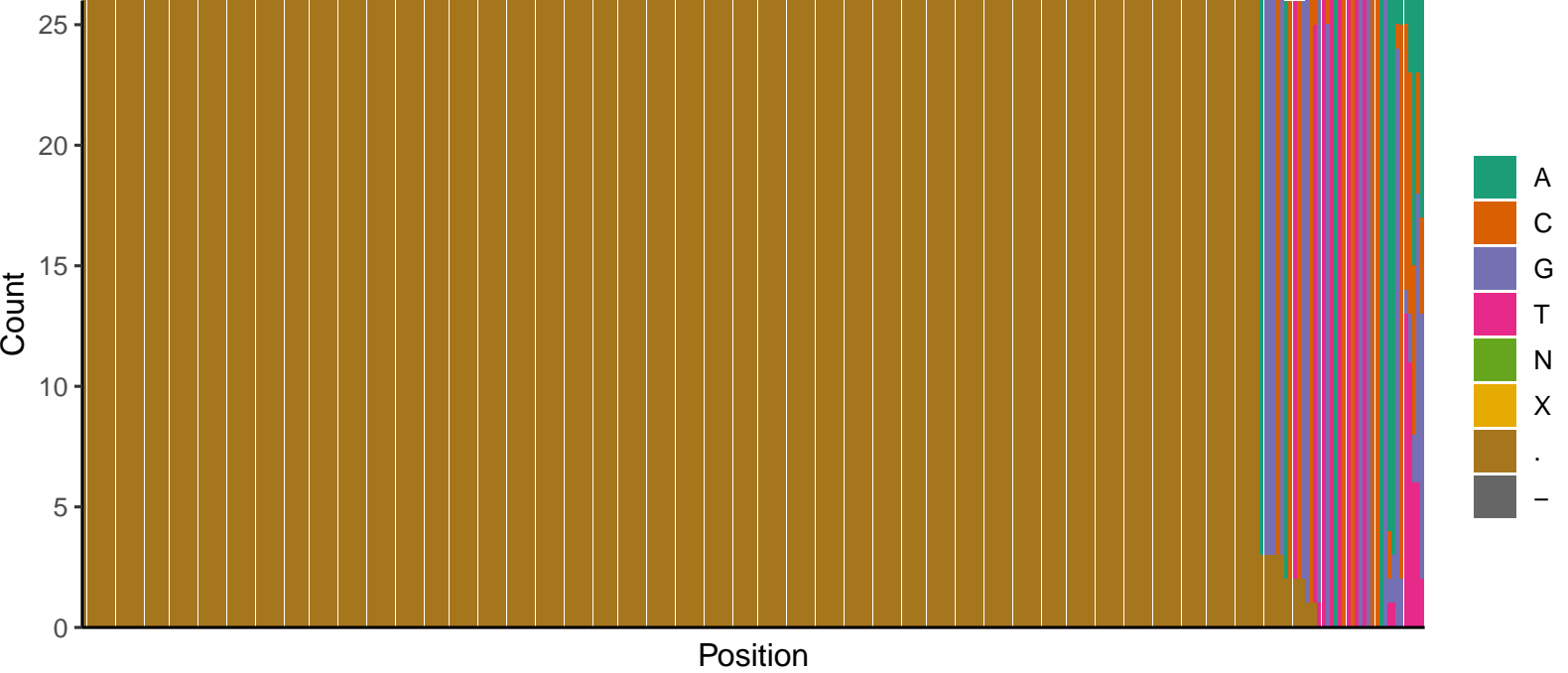
Gene TRBV12-2*ap01_G301A



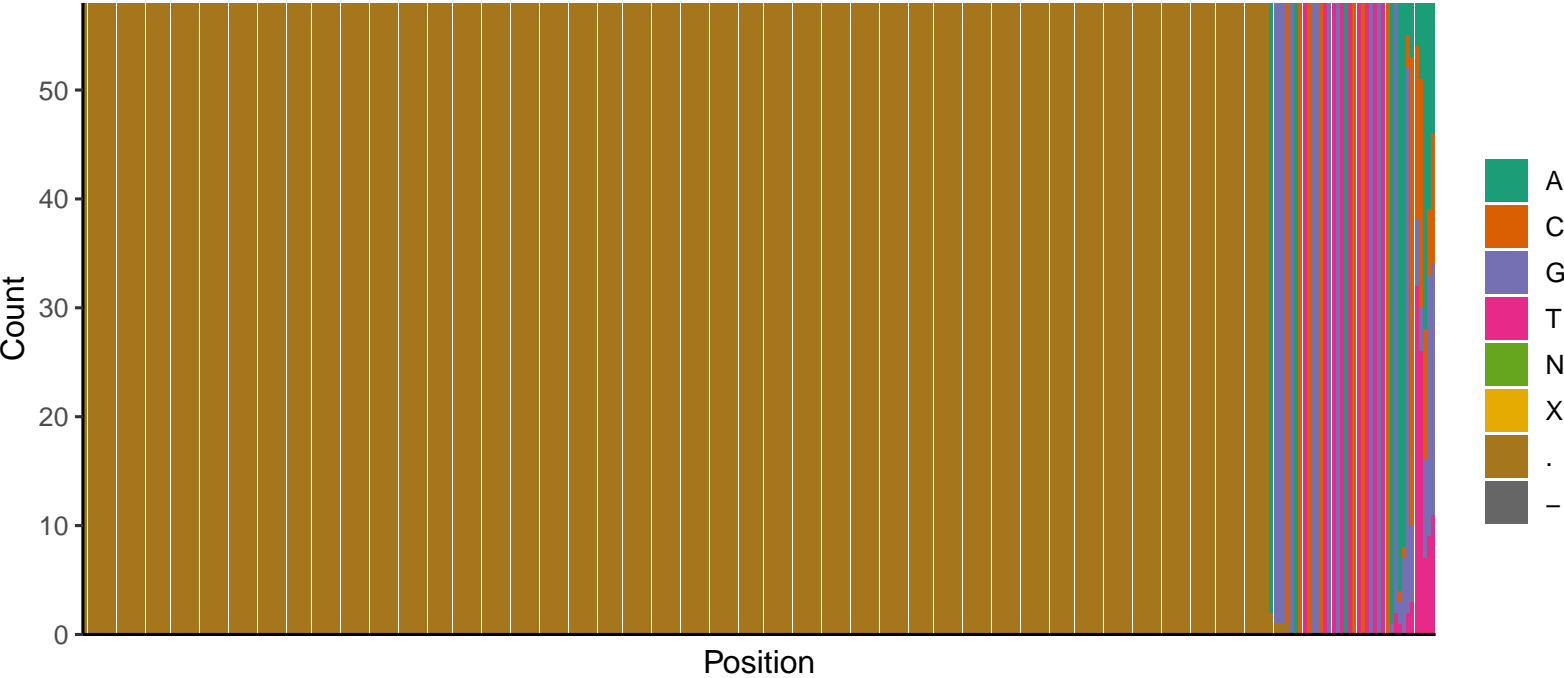
Gene TRBV28*ap01_A297G



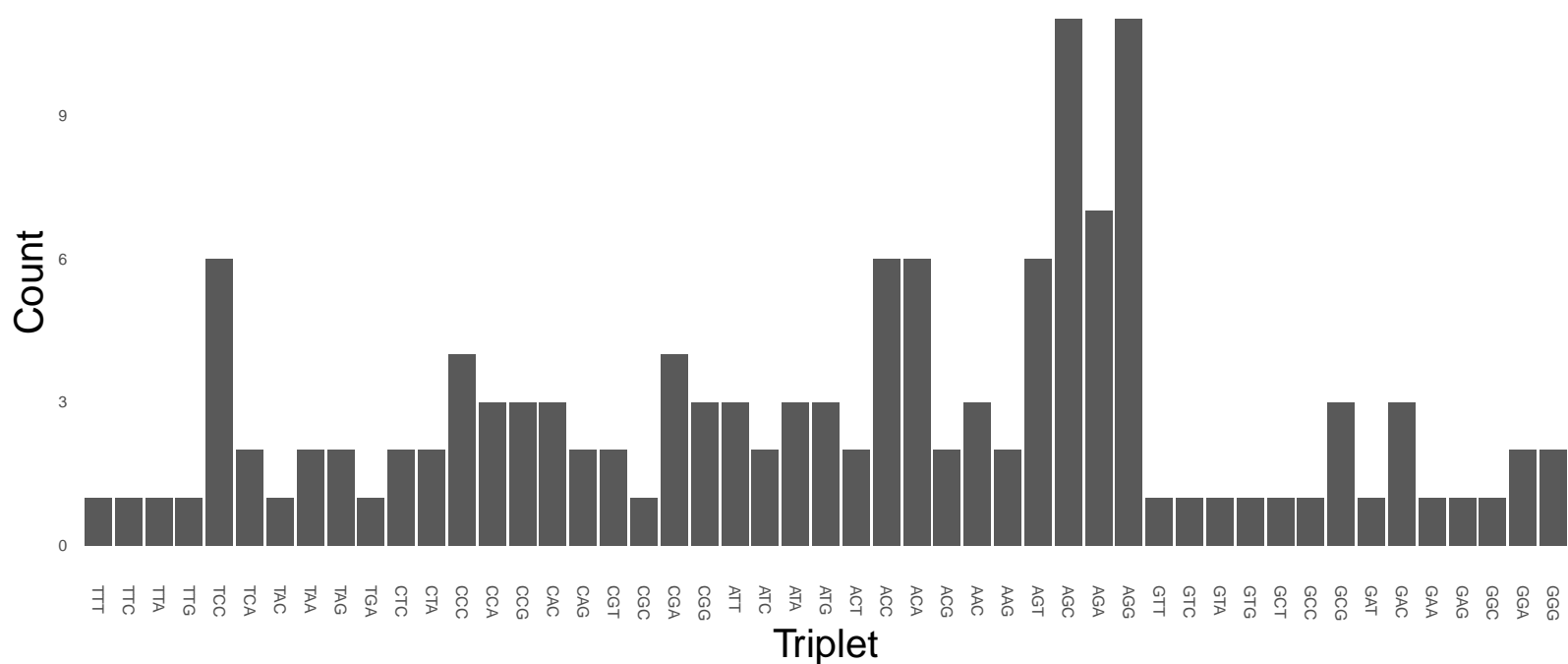
Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-1*ap01_G291C_T296C_C314T



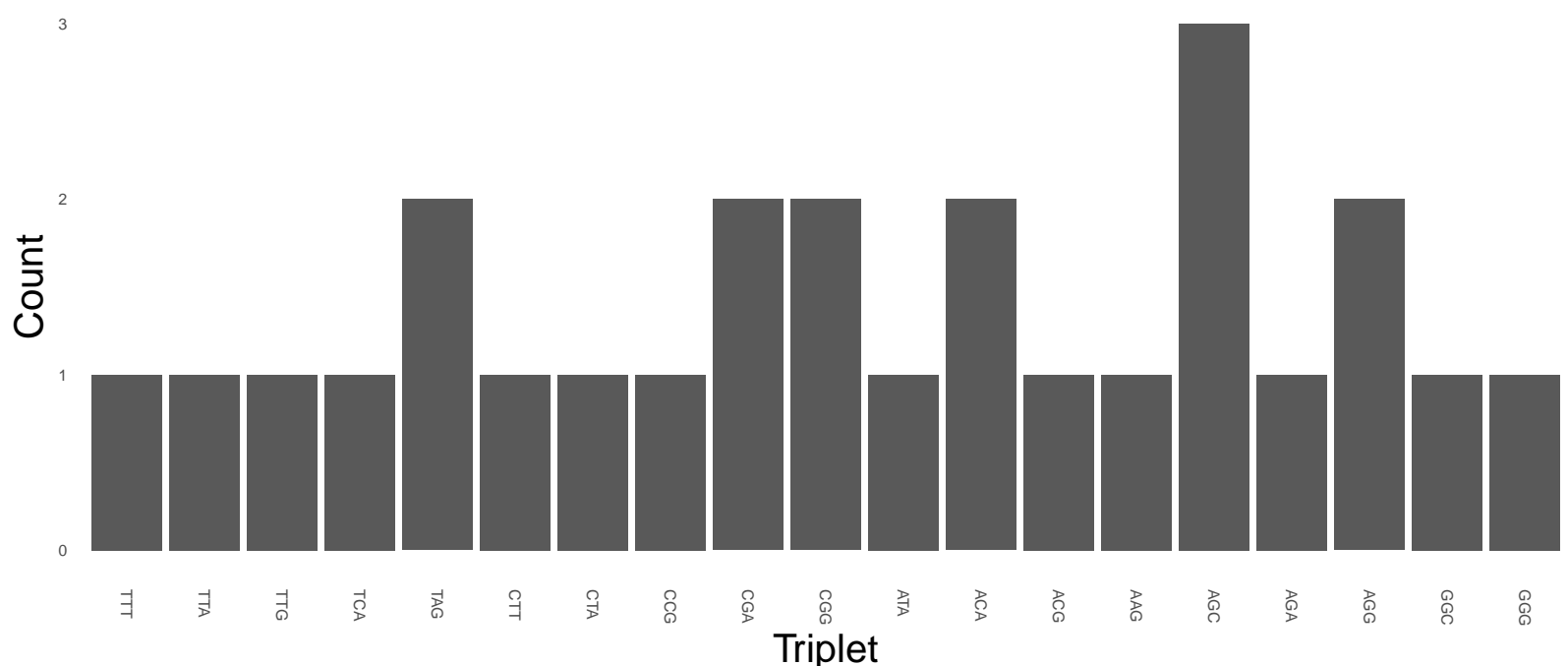
TRBV12-2*ap01_G301A- Final 3 nucleotides as a triplet



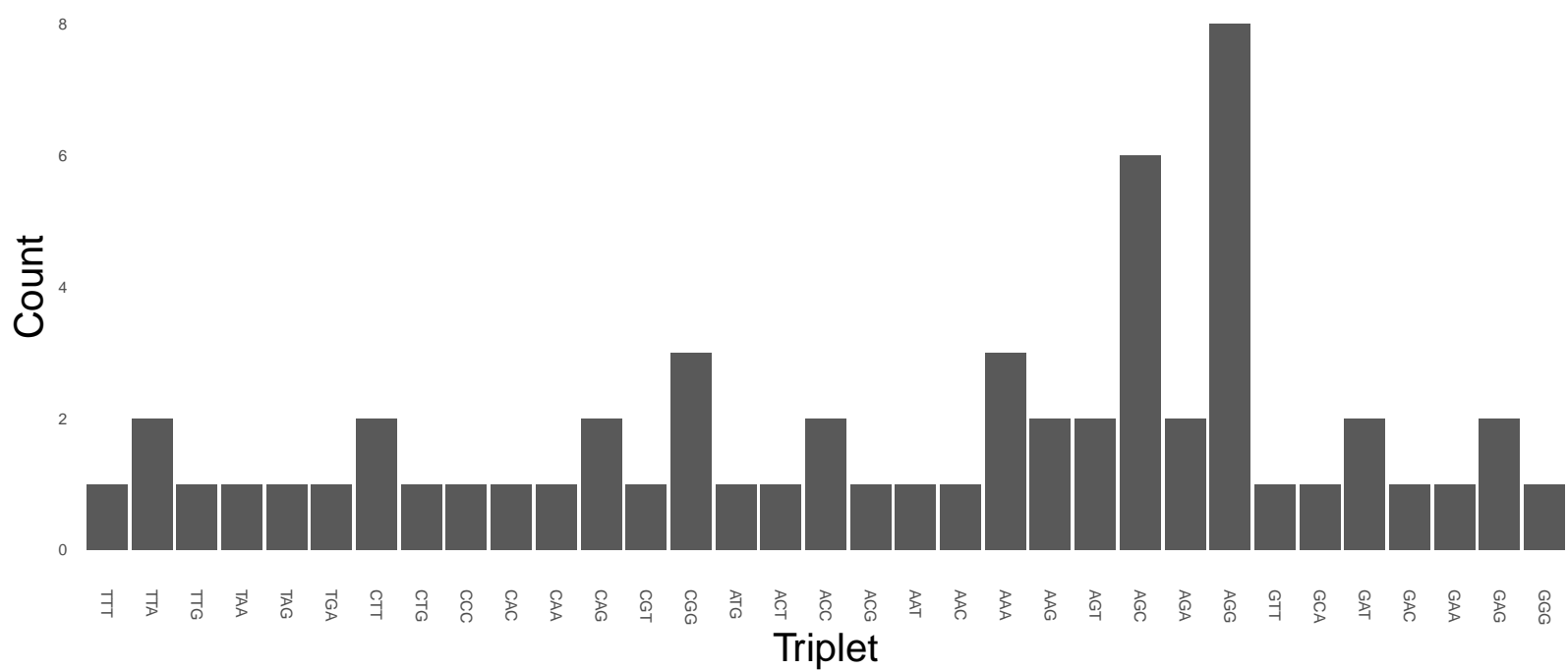
TRBV28*ap01_A297G- Final 3 nucleotides as a triplet



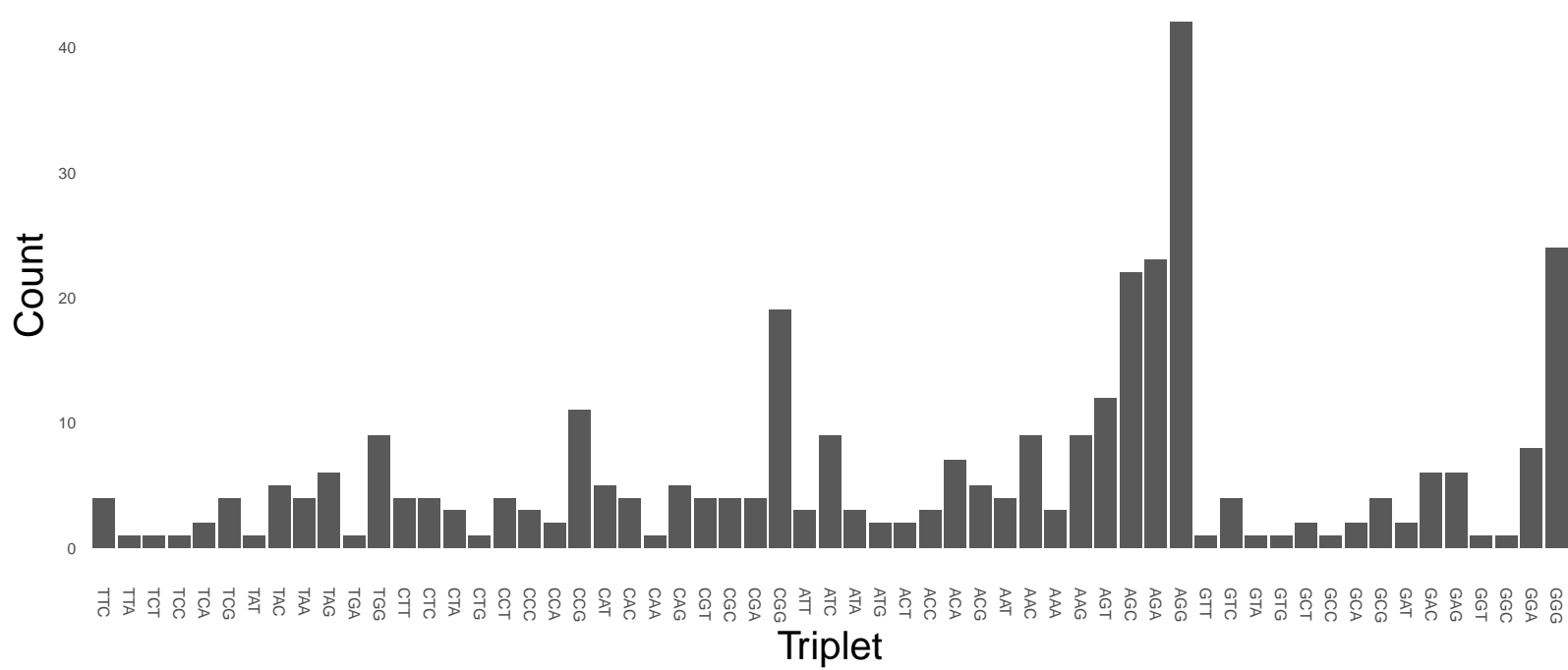
TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet



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

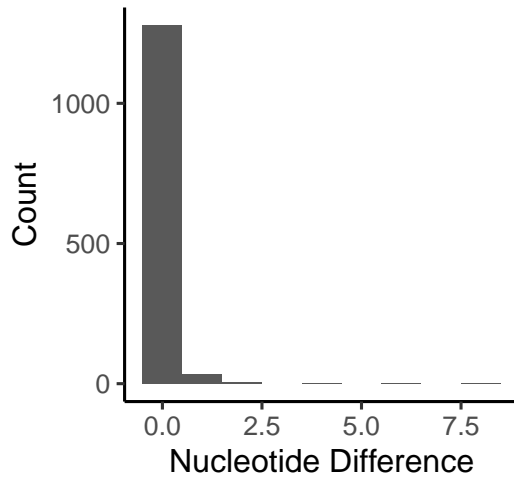


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



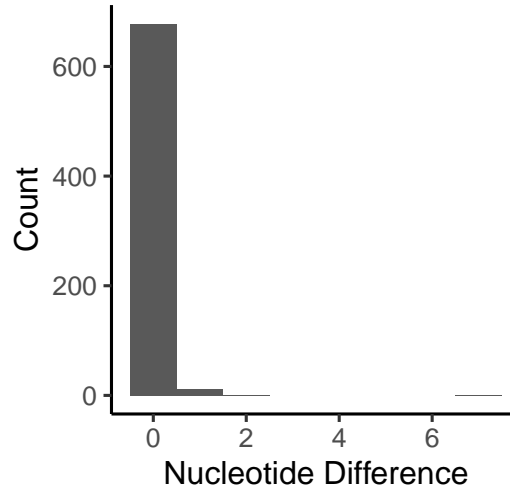
TRBV10-1*ap01

1322 sequences assigned
1278 (96.7%) exact matches, in which:
1266 unique CDR3
13 unique J



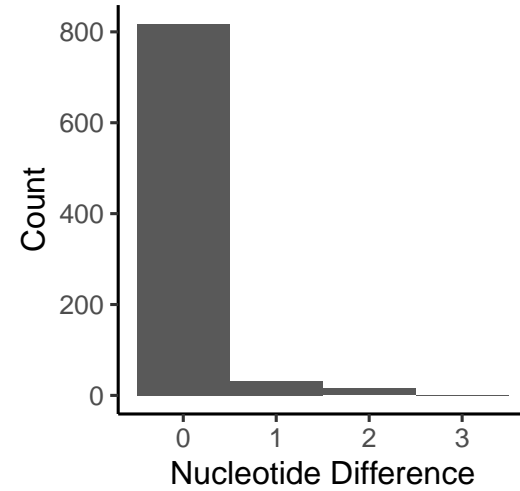
TRBV10-2*ap01

692 sequences assigned
678 (98%) exact matches, in which:
668 unique CDR3
13 unique J



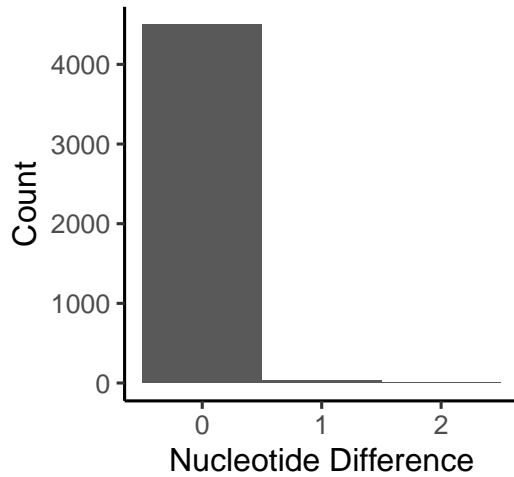
TRBV13*ap01

865 sequences assigned
818 (94.6%) exact matches, in which:
810 unique CDR3
13 unique J



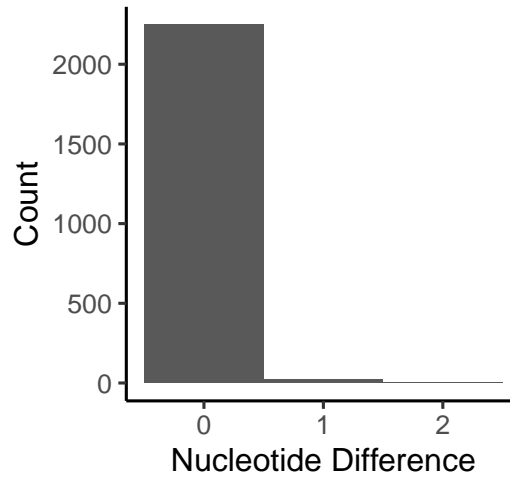
TRBV20-1*ap01

4531 sequences assigned
4498 (99.3%) exact matches, in which:
4470 unique CDR3
13 unique J



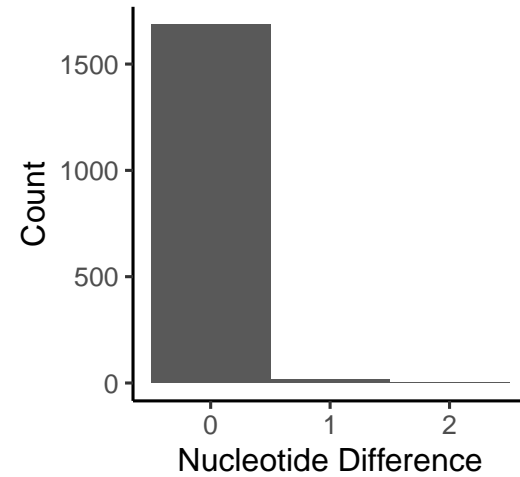
TRBV10-3*ap01

2272 sequences assigned
2248 (98.9%) exact matches, in which:
2215 unique CDR3
13 unique J



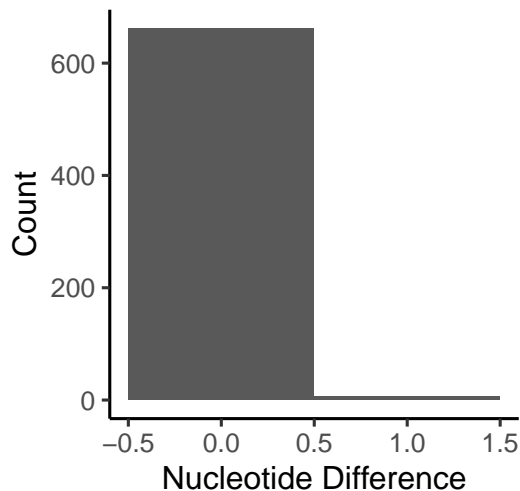
TRBV14*ap01

1703 sequences assigned
1685 (98.9%) exact matches, in which:
1677 unique CDR3
13 unique J



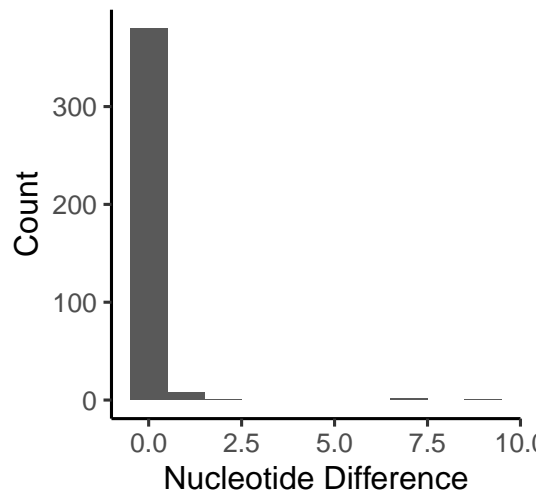
TRBV20-1*ap02

668 sequences assigned
662 (99.1%) exact matches, in which:
658 unique CDR3
13 unique J



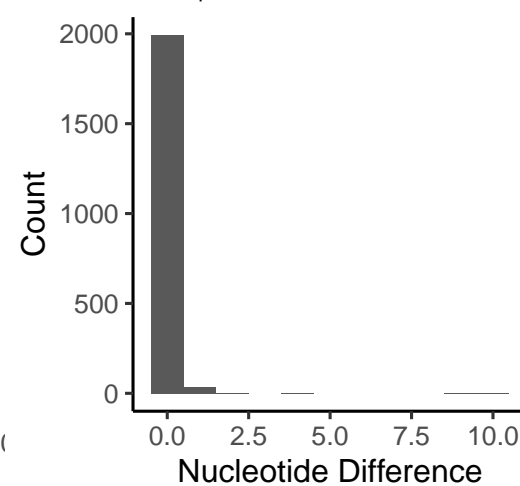
TRBV1*ap01

392 sequences assigned
380 (96.9%) exact matches, in which:
369 unique CDR3
13 unique J



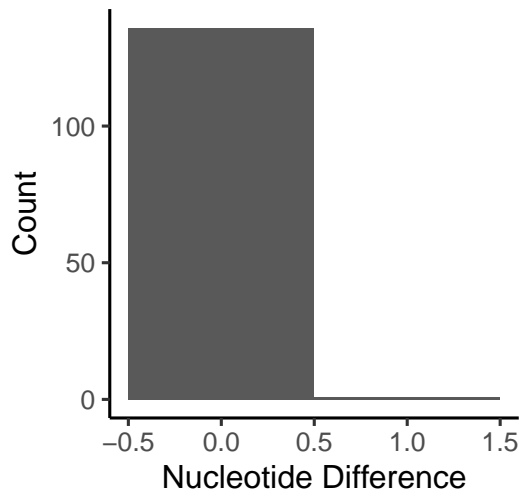
TRBV15*ap02

2032 sequences assigned
1993 (98.1%) exact matches, in which:
1972 unique CDR3
13 unique J



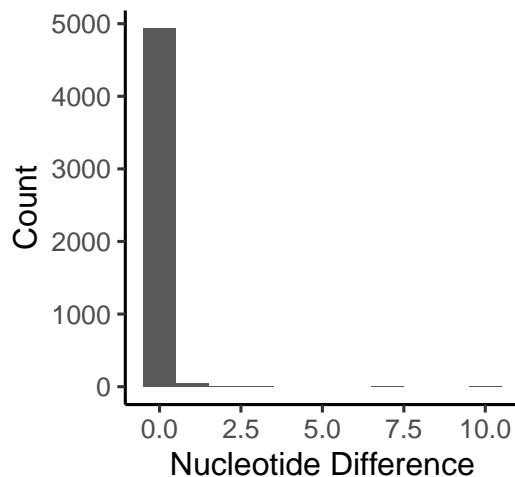
TRBV16*ap01

137 sequences assigned
136 (99.3%) exact matches, in which:
135 unique CDR3
13 unique J



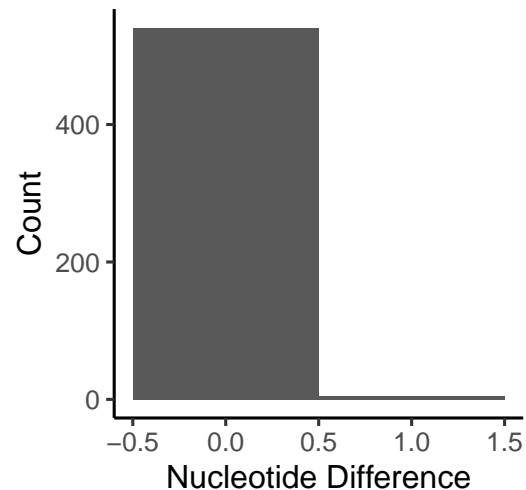
TRBV19*ap01

4989 sequences assigned
4935 (98.9%) exact matches, in which:
4916 unique CDR3
13 unique J



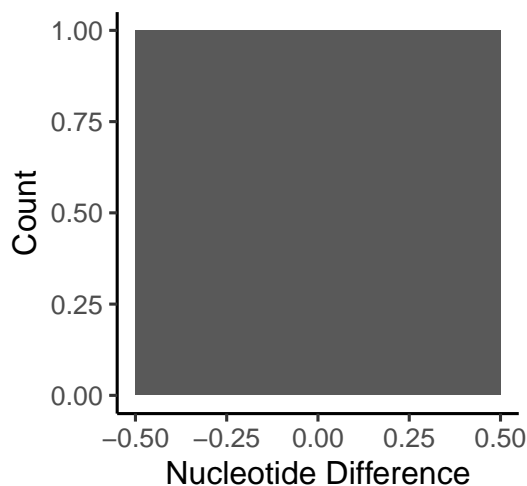
TRBV28*ap01

546 sequences assigned
541 (99.1%) exact matches, in which:
537 unique CDR3
13 unique J



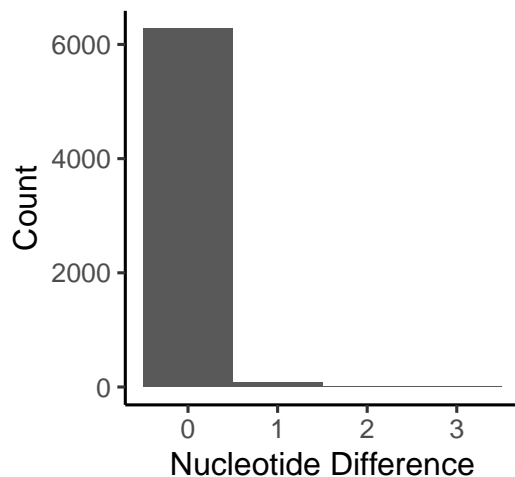
TRBV17*ap01

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



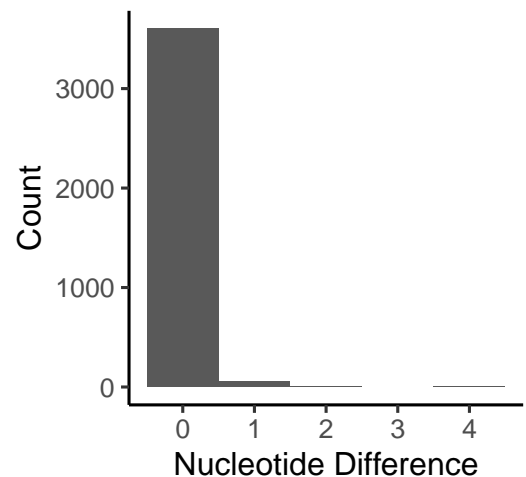
TRBV2*ap01

6363 sequences assigned
6275 (98.6%) exact matches, in which:
6206 unique CDR3
13 unique J



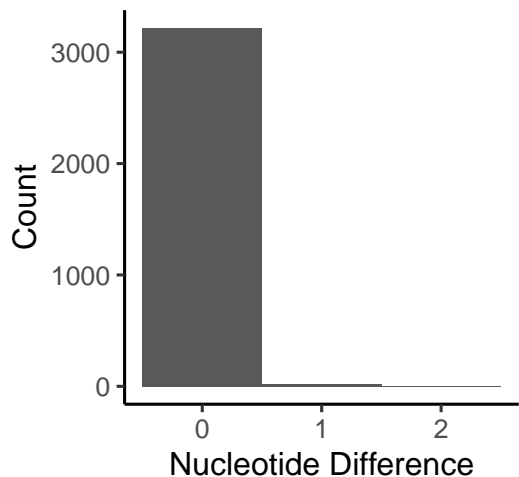
TRBV28*ap01_A297G

3661 sequences assigned
3602 (98.4%) exact matches, in which:
3583 unique CDR3
13 unique J



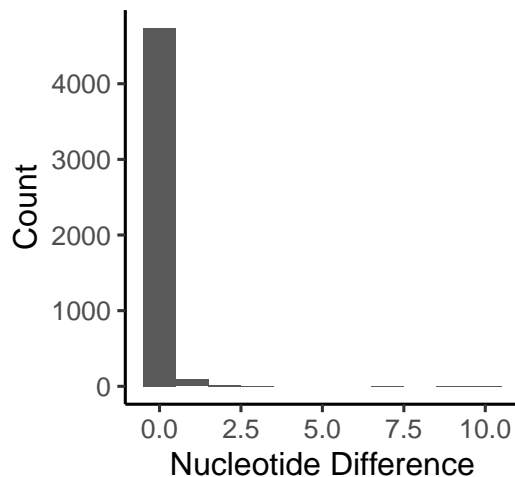
TRBV18*ap01

3239 sequences assigned
3217 (99.3%) exact matches, in which:
3205 unique CDR3
13 unique J



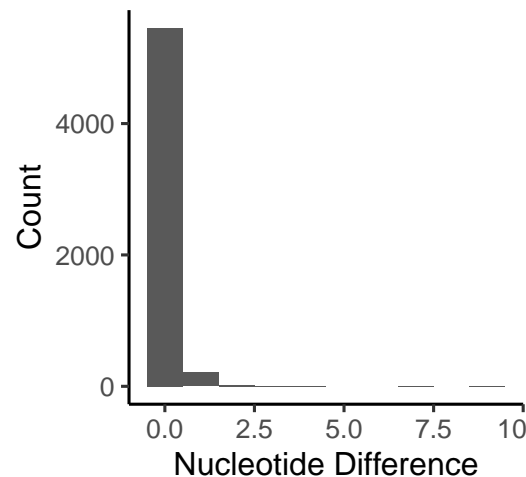
TRBV27*ap01

4846 sequences assigned
4736 (97.7%) exact matches, in which:
4685 unique CDR3
13 unique J



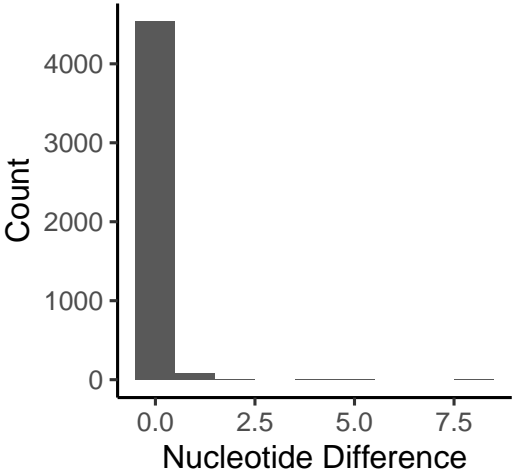
TRBV30*ap01

5695 sequences assigned
5454 (95.8%) exact matches, in which:
5295 unique CDR3
13 unique J



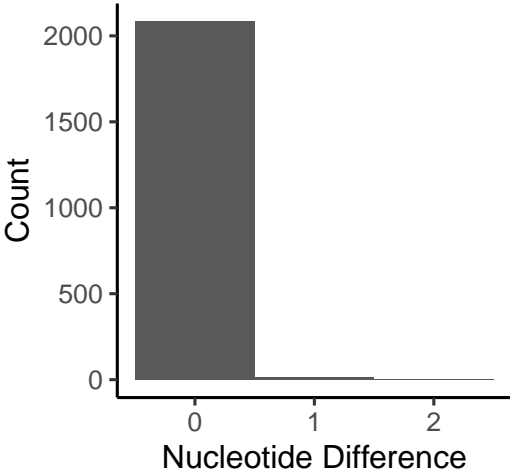
TRBV9*ap01

4624 sequences assigned
4537 (98.1%) exact matches, in which:
4504 unique CDR3
13 unique J



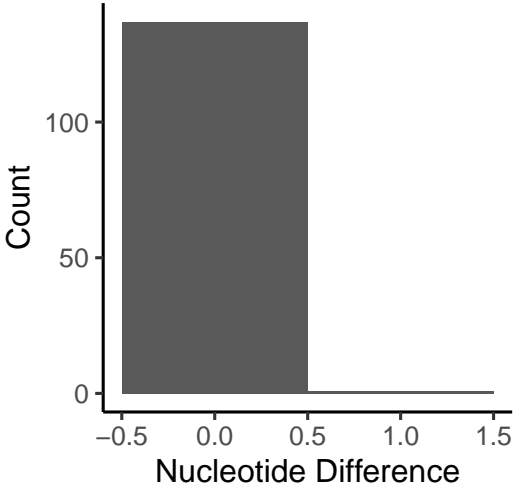
TRBV11-2*ap01

2102 sequences assigned
2084 (99.1%) exact matches, in which:
2071 unique CDR3
13 unique J



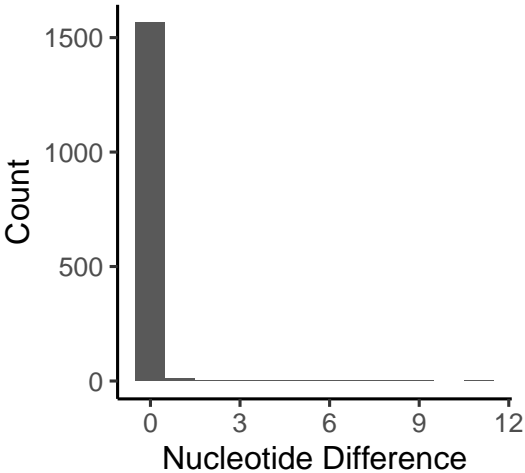
TRBV12-2*ap01

138 sequences assigned
137 (99.3%) exact matches, in which:
133 unique CDR3
12 unique J



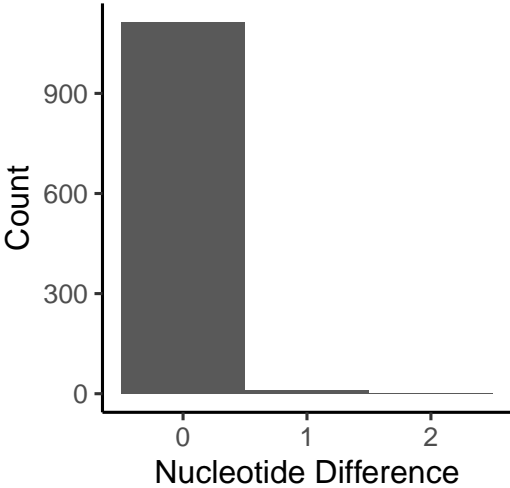
TRBV21-1*ap01

1588 sequences assigned
1565 (98.6%) exact matches, in which:
1558 unique CDR3
13 unique J



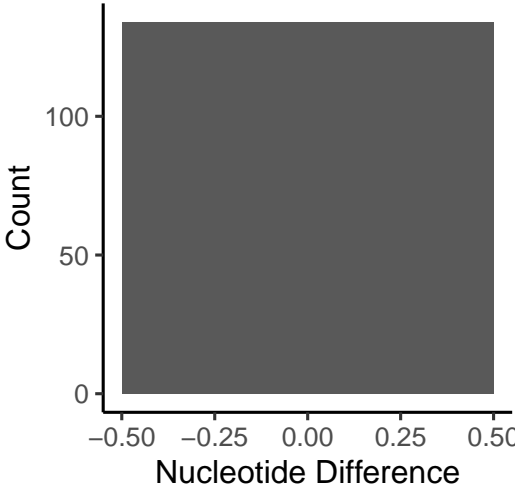
TRBV11-3*ap01

1125 sequences assigned
1114 (99%) exact matches, in which:
1111 unique CDR3
13 unique J



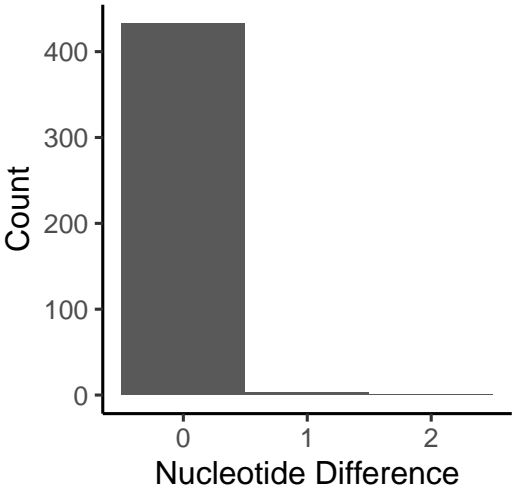
TRBV12-2*ap01_G301A

134 sequences assigned
134 (100%) exact matches, in which:
134 unique CDR3
13 unique J



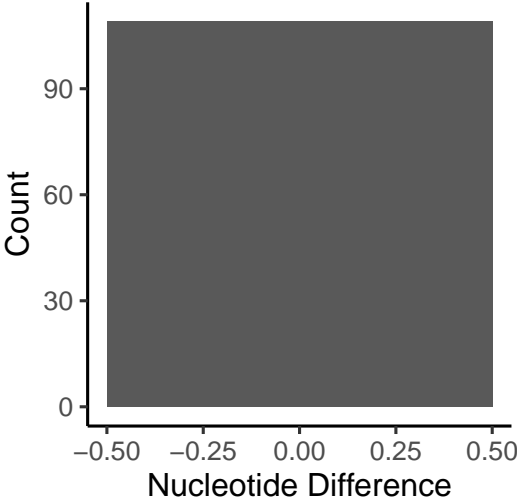
TRBV11-1*ap01

437 sequences assigned
433 (99.1%) exact matches, in which:
431 unique CDR3
13 unique J



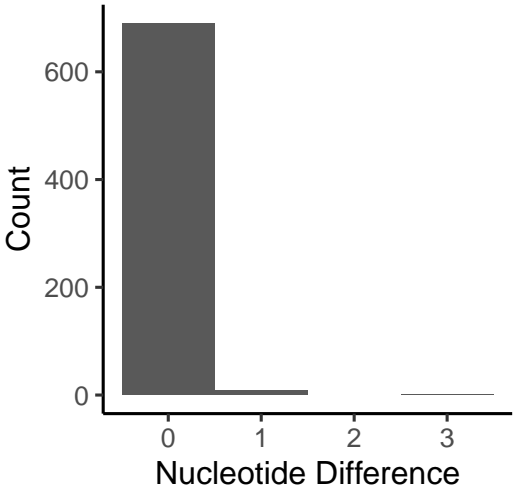
TRBV12-1*ap01

109 sequences assigned
109 (100%) exact matches, in which:
109 unique CDR3
12 unique J



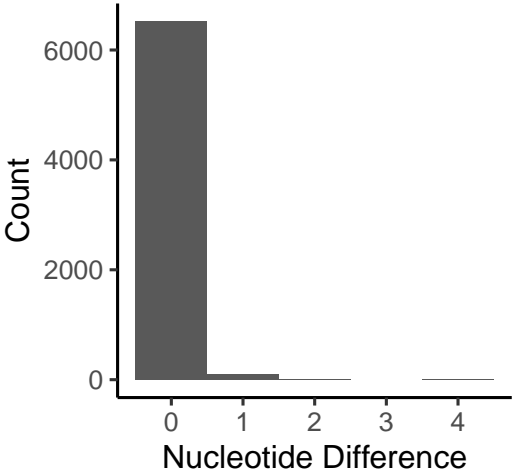
TRBV12-5*ap01

699 sequences assigned
690 (98.7%) exact matches, in which:
685 unique CDR3
13 unique J



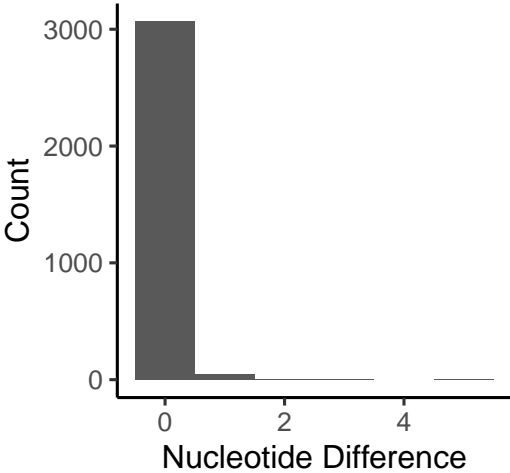
TRBV12-34*ap01

6617 sequences assigned
6520 (98.5%) exact matches, in which:
6446 unique CDR3
13 unique J



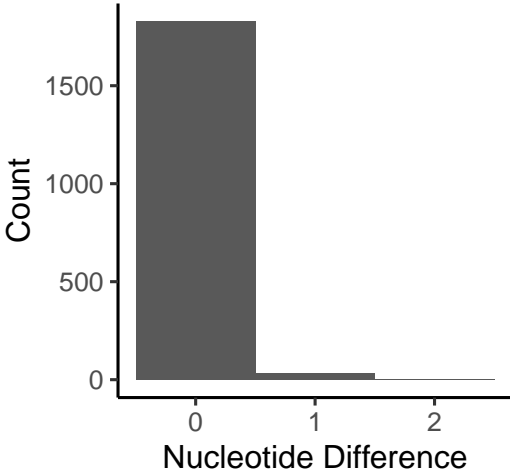
TRBV24-1*ap01

3125 sequences assigned
3067 (98.1%) exact matches, in which:
3036 unique CDR3
13 unique J



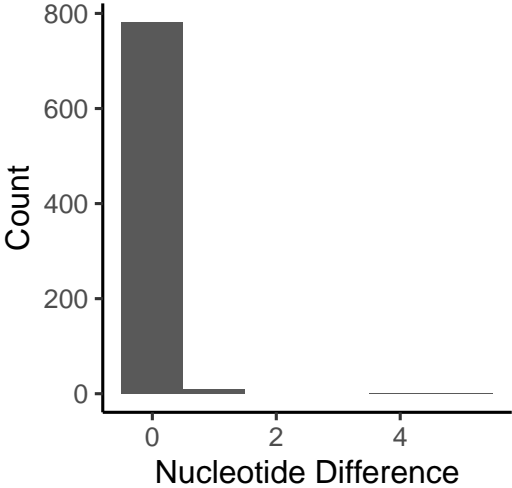
TRBV4-3*ap01

1865 sequences assigned
1828 (98%) exact matches, in which:
1802 unique CDR3
13 unique J



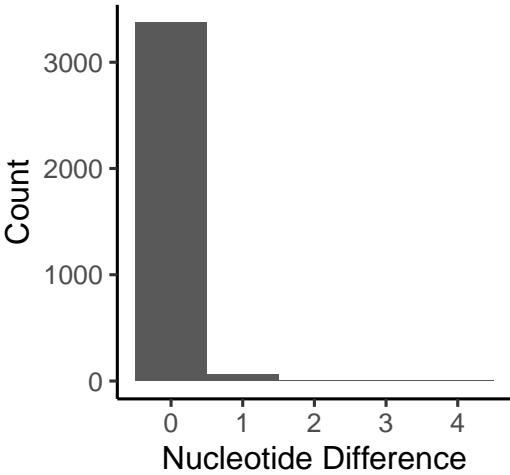
TRBV23-1*ap01

793 sequences assigned
782 (98.6%) exact matches, in which:
779 unique CDR3
13 unique J



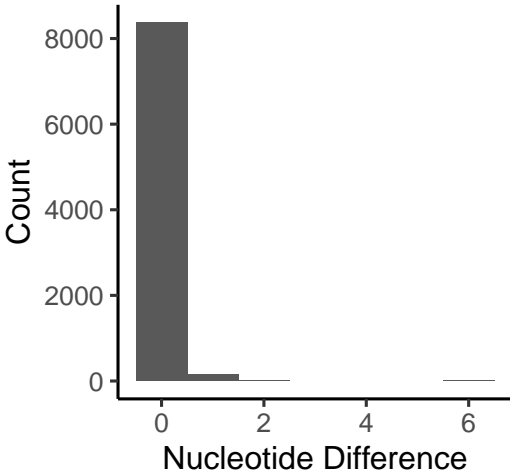
TRBV4-1*ap01

3439 sequences assigned
3372 (98.1%) exact matches, in which:
3329 unique CDR3
13 unique J



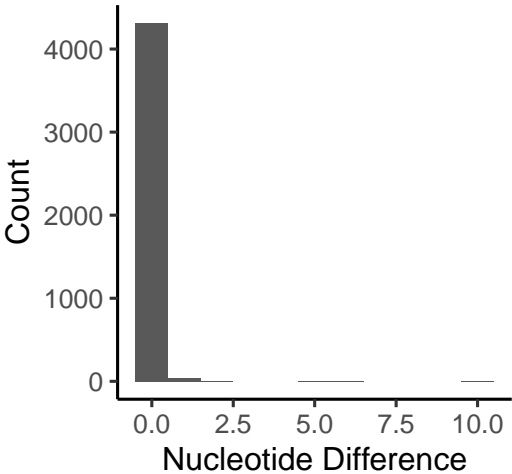
TRBV5-1*ap01

8533 sequences assigned
8369 (98.1%) exact matches, in which:
8266 unique CDR3
13 unique J



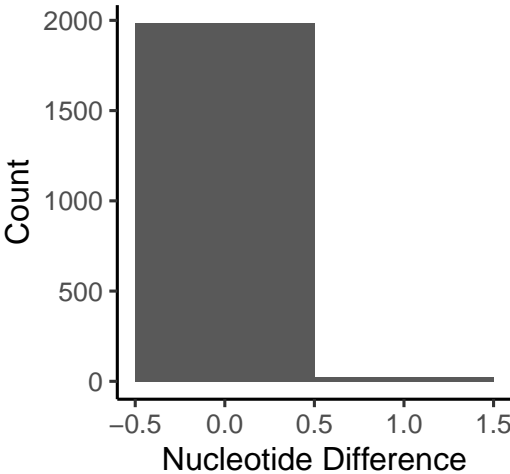
TRBV3-12*ap01

4361 sequences assigned
4313 (98.9%) exact matches, in which:
4290 unique CDR3
13 unique J



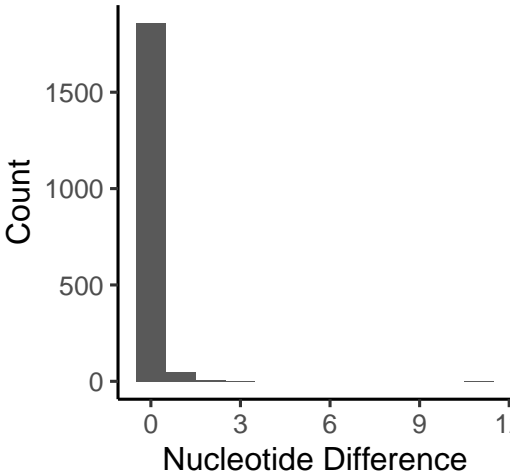
TRBV4-2*ap01

2009 sequences assigned
1985 (98.8%) exact matches, in which:
1961 unique CDR3
13 unique J



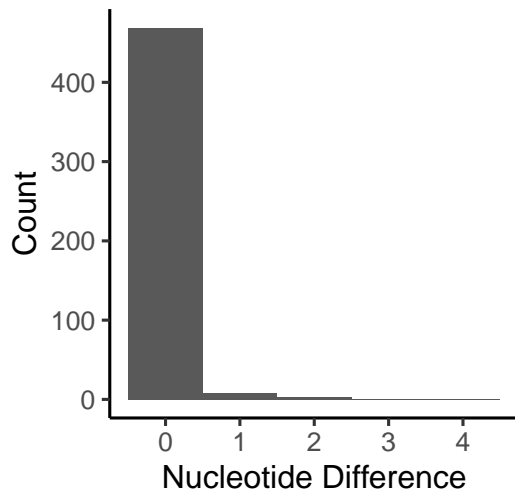
TRBV25-1*ap01

1916 sequences assigned
1859 (97%) exact matches, in which:
1808 unique CDR3
13 unique J



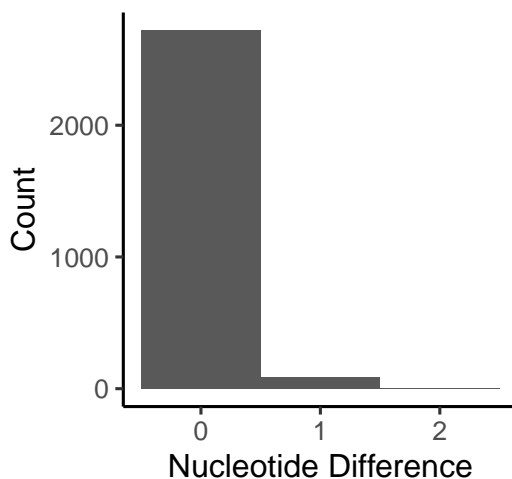
TRBV5-3*ap01

482 sequences assigned
469 (97.3%) exact matches, in which:
465 unique CDR3
13 unique J



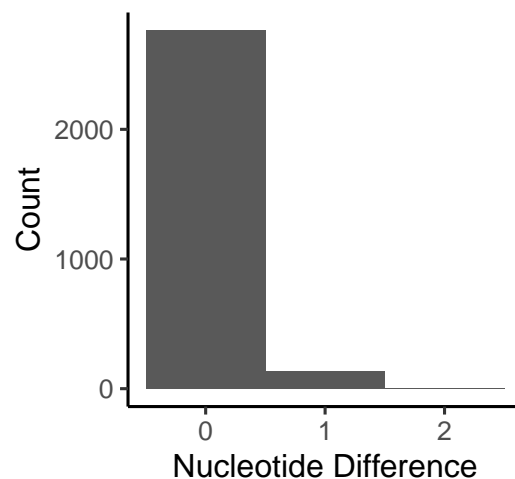
TRBV5-6*ap01

2808 sequences assigned
2720 (96.9%) exact matches, in which:
2665 unique CDR3
13 unique J



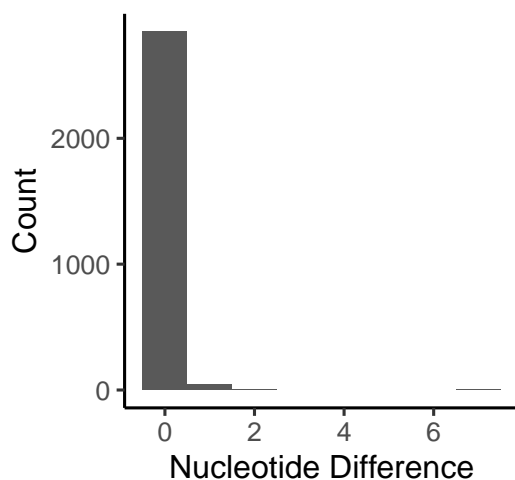
TRBV6-1*ap01

2904 sequences assigned
2763 (95.1%) exact matches, in which:
2730 unique CDR3
13 unique J



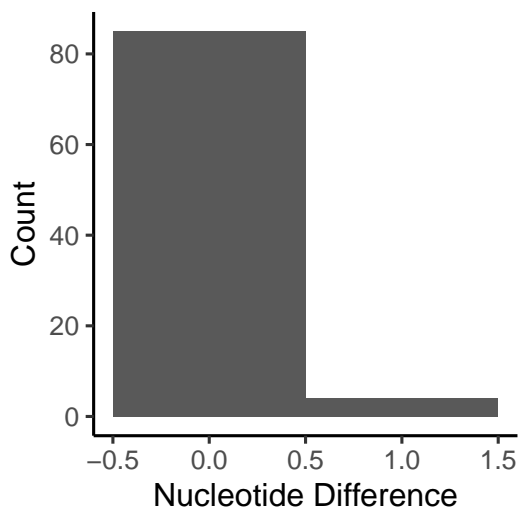
TRBV5-4*ap01

2891 sequences assigned
2847 (98.5%) exact matches, in which:
2814 unique CDR3
13 unique J



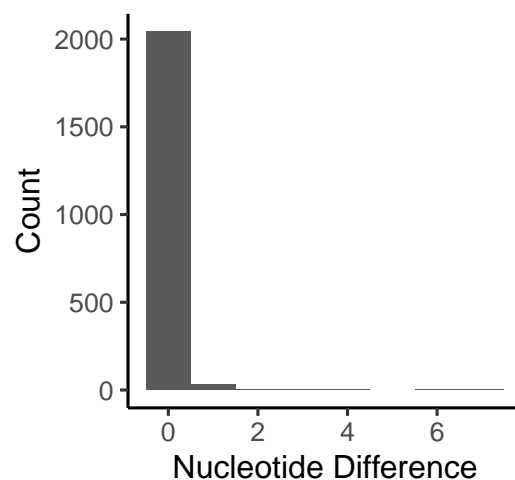
TRBV5-7*ap01

89 sequences assigned
85 (95.5%) exact matches, in which:
85 unique CDR3
13 unique J



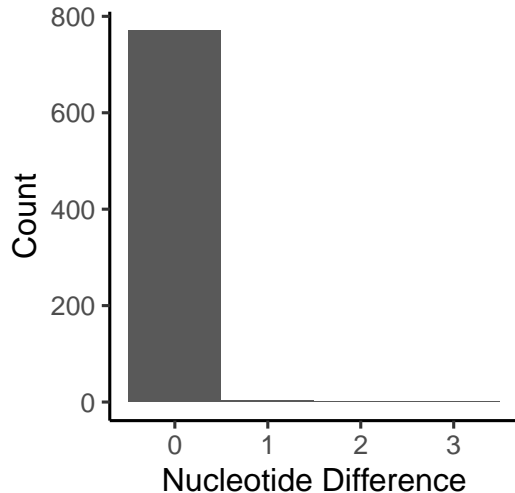
TRBV6-4*ap01

2086 sequences assigned
2042 (97.9%) exact matches, in which:
2023 unique CDR3
13 unique J



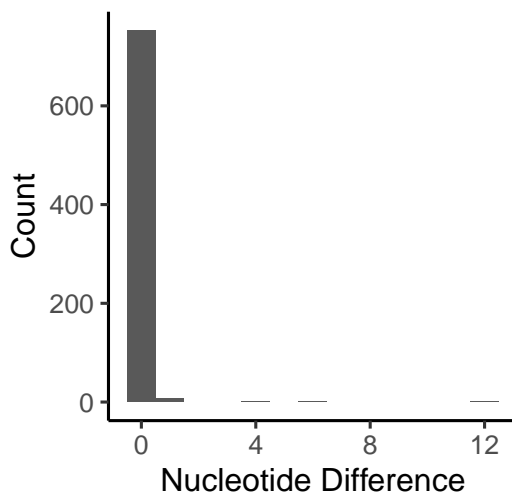
TRBV5-5*ap01

777 sequences assigned
771 (99.2%) exact matches, in which:
767 unique CDR3
13 unique J



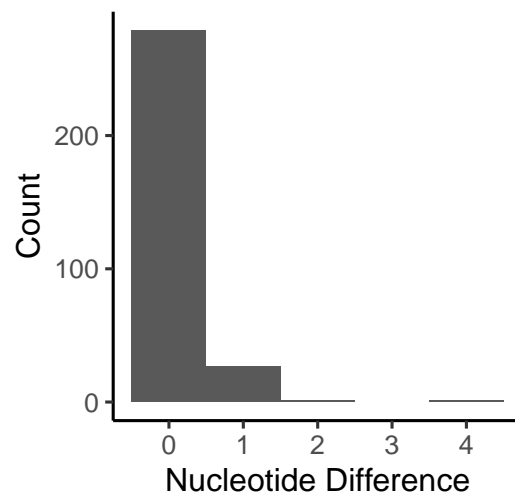
TRBV5-8*ap01

765 sequences assigned
753 (98.4%) exact matches, in which:
745 unique CDR3
13 unique J



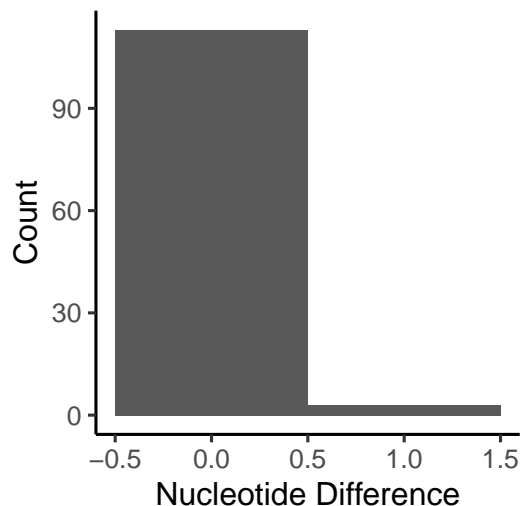
TRBV6-7*ap01

308 sequences assigned
279 (90.6%) exact matches, in which:
265 unique CDR3
13 unique J



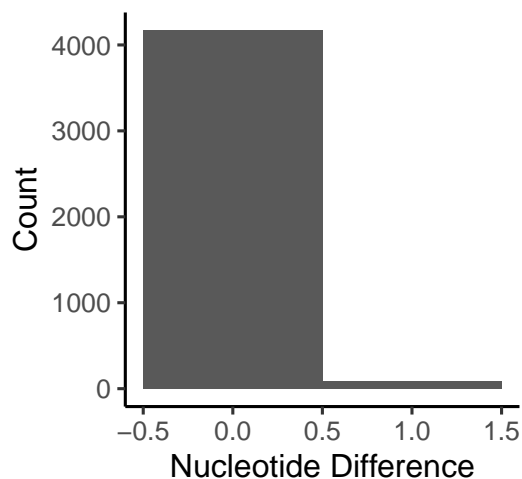
TRBV6–8*ap01

116 sequences assigned
113 (97.4%) exact matches, in which:
111 unique CDR3
12 unique J



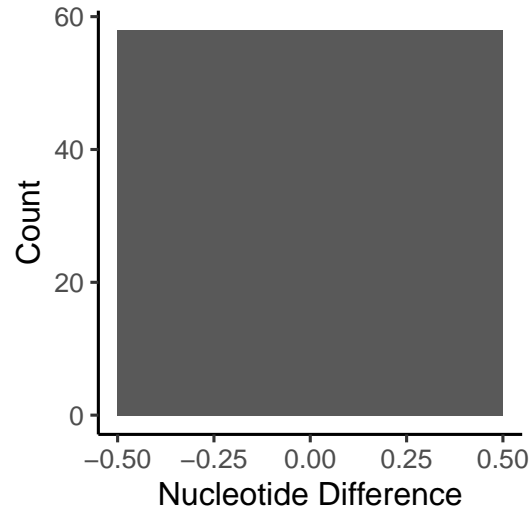
TRBV6–56*ap01

4255 sequences assigned
4169 (98%) exact matches, in which:
4079 unique CDR3
14 unique J



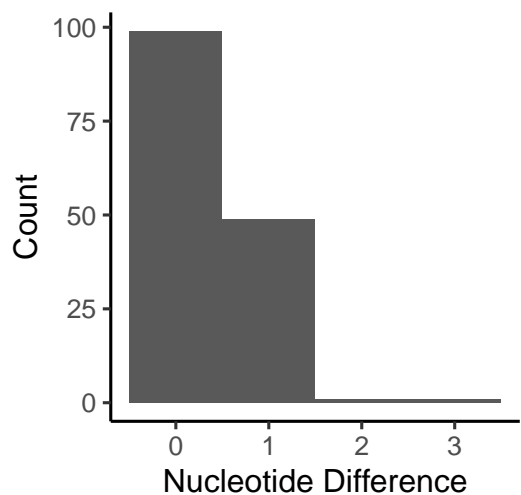
TRBV7–1*ap01_G291C_T

58 sequences assigned
58 (100%) exact matches, in which:
58 unique CDR3
12 unique J



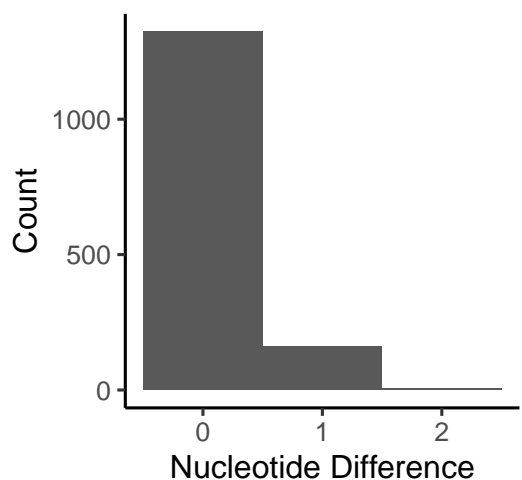
TRBV6–9*ap01

150 sequences assigned
99 (66%) exact matches, in which:
96 unique CDR3
13 unique J



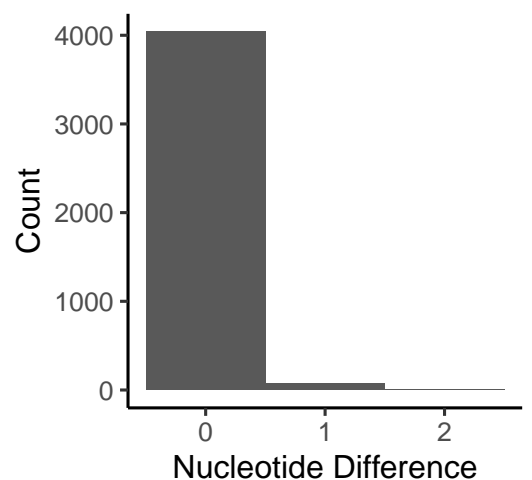
TRBV6–56*ap02

1488 sequences assigned
1323 (88.9%) exact matches, in which:
1296 unique CDR3
13 unique J



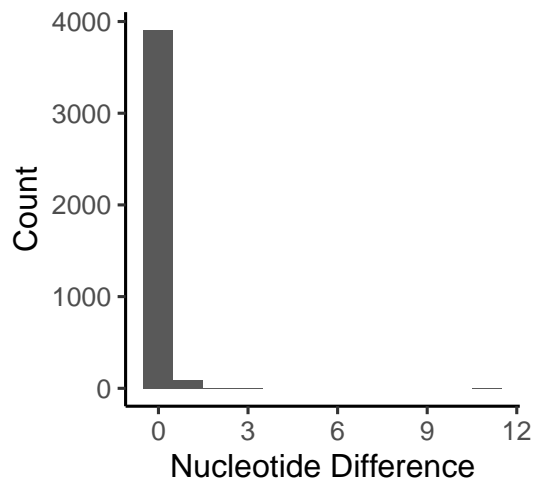
TRBV7–2*ap01

4112 sequences assigned
4040 (98.2%) exact matches, in which:
4011 unique CDR3
13 unique J



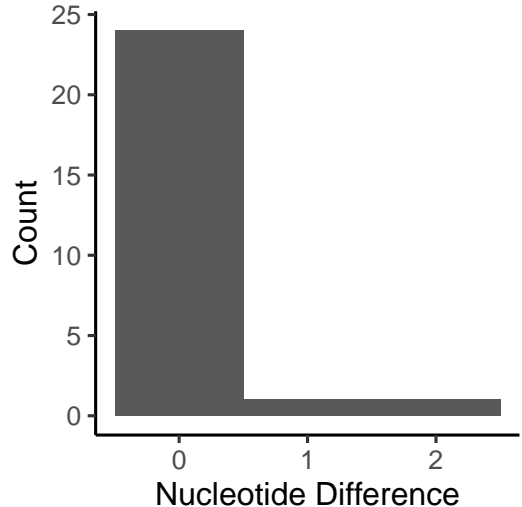
TRBV6–23*ap01

4009 sequences assigned
3907 (97.5%) exact matches, in which:
3824 unique CDR3
13 unique J



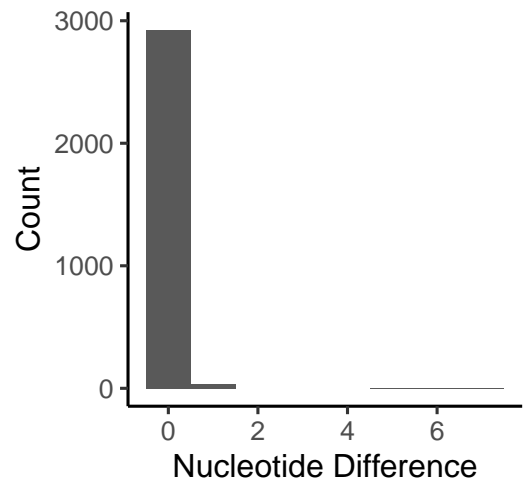
TRBV7–1*ap01_G291C_T

26 sequences assigned
24 (92.3%) exact matches, in which:
24 unique CDR3
11 unique J



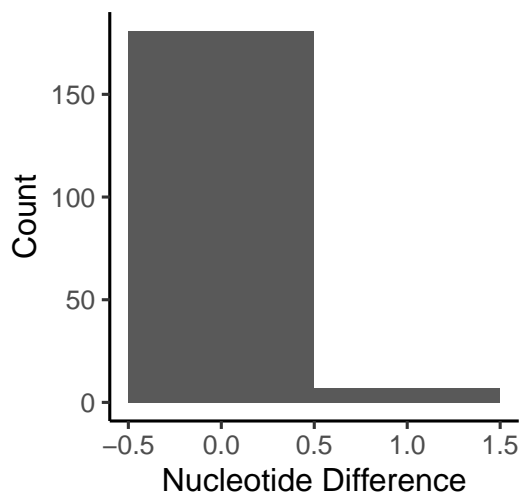
TRBV7–3*ap01

2964 sequences assigned
2924 (98.7%) exact matches, in which:
2899 unique CDR3
13 unique J



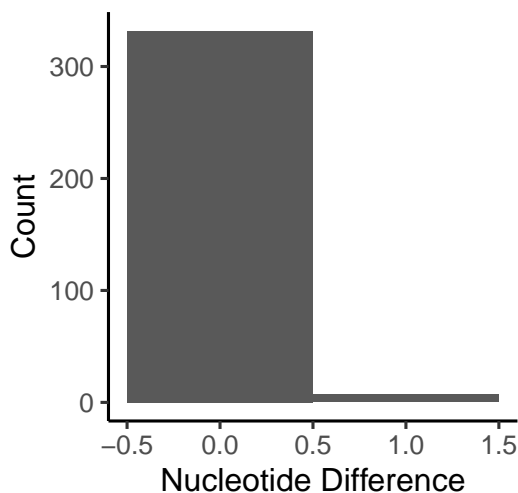
TRBV7-4*ap01

188 sequences assigned
181 (96.3%) exact matches, in which:
177 unique CDR3
13 unique J



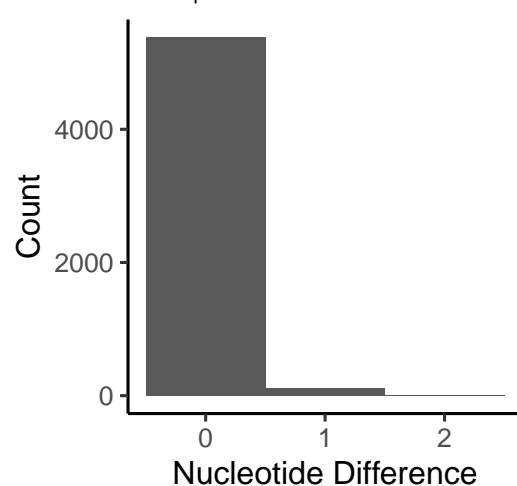
TRBV7-7*ap01_C315T

339 sequences assigned
332 (97.9%) exact matches, in which:
328 unique CDR3
13 unique J



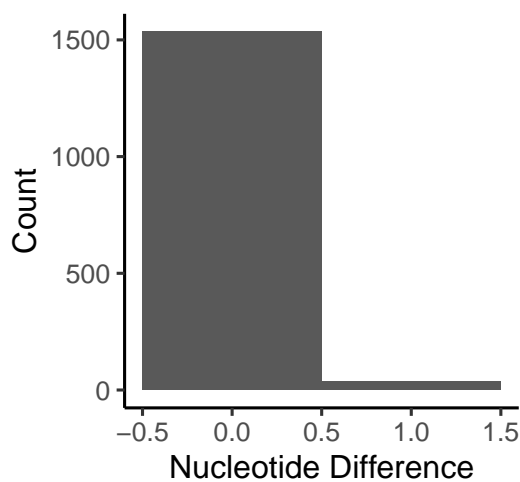
TRBV7-9*ap01

5506 sequences assigned
5380 (97.7%) exact matches, in which:
5326 unique CDR3
13 unique J



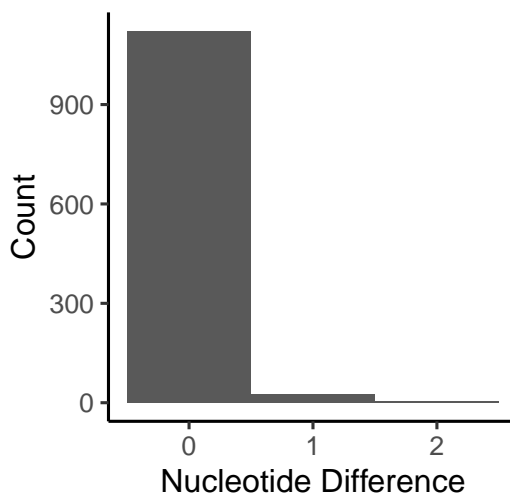
TRBV7-6*ap01

1570 sequences assigned
1535 (97.8%) exact matches, in which:
1511 unique CDR3
13 unique J



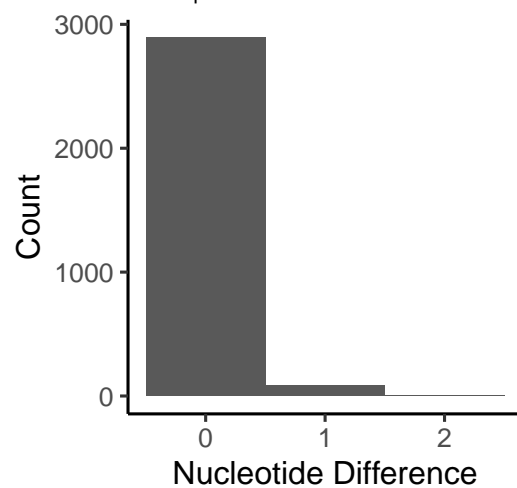
TRBV7-8*ap01

1152 sequences assigned
1122 (97.4%) exact matches, in which:
1114 unique CDR3
13 unique J



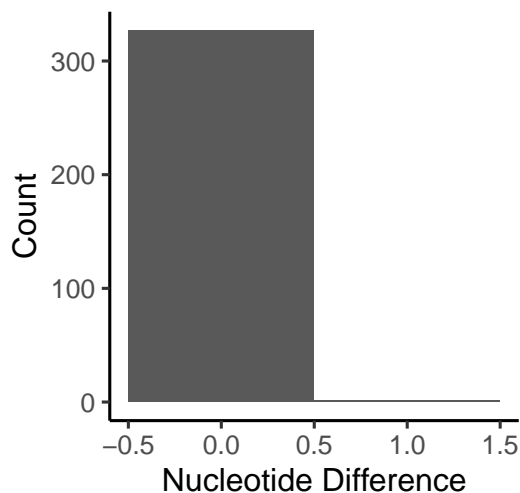
TRBV29-1*ap01

2976 sequences assigned
2892 (97.2%) exact matches, in which:
2817 unique CDR3
13 unique J



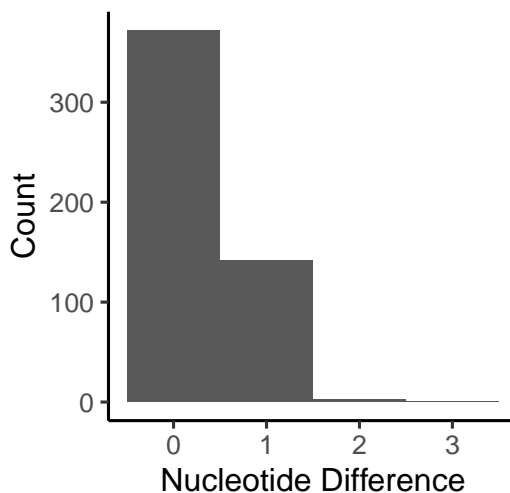
TRBV7-7*ap01

328 sequences assigned
327 (99.7%) exact matches, in which:
324 unique CDR3
12 unique J



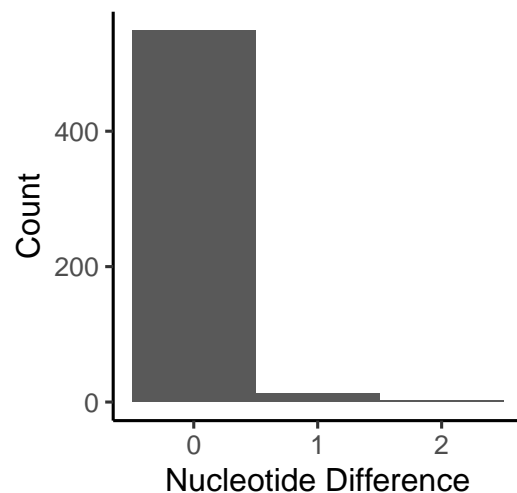
TRBV7-8*ap03

518 sequences assigned
372 (71.8%) exact matches, in which:
372 unique CDR3
13 unique J

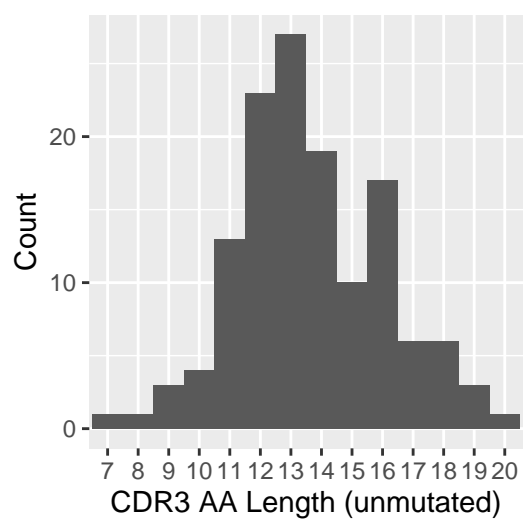


TRBV29-1*ap02

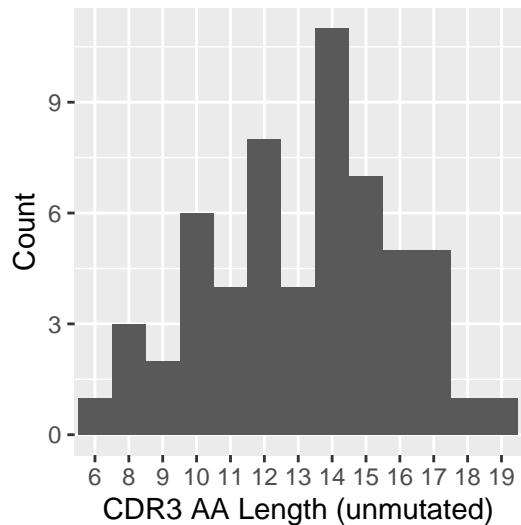
563 sequences assigned
549 (97.5%) exact matches, in which:
529 unique CDR3
13 unique J



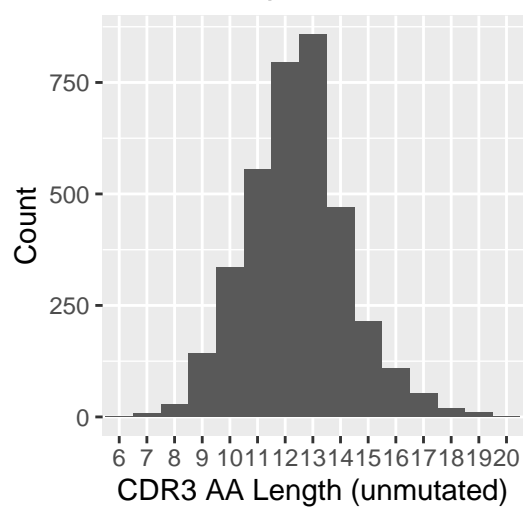
TRBV12-2*ap01_G301A



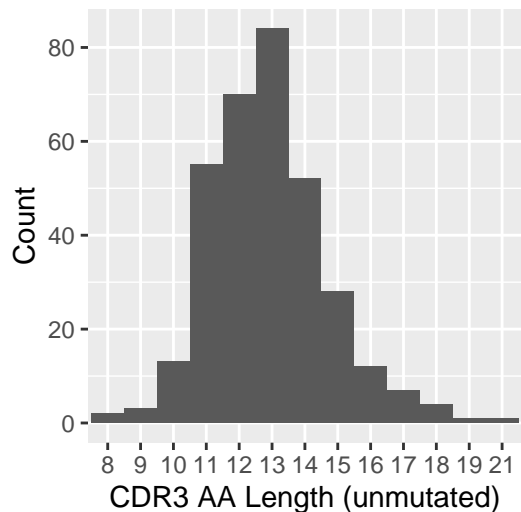
TRBV7-1*ap01_G291C_T296C_C314T



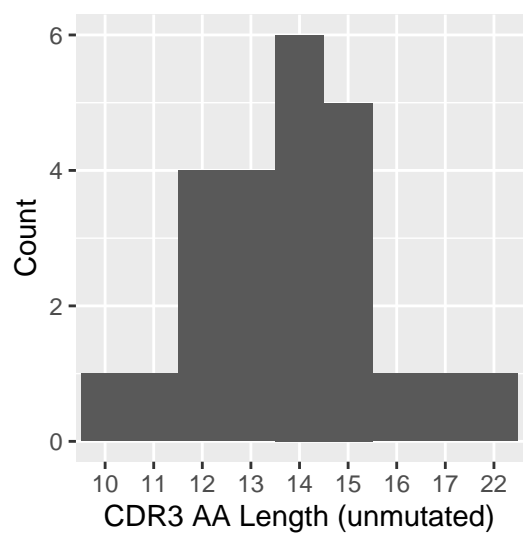
TRBV28*ap01_A297G



TRBV7-7*ap01_C315T



TRBV7-1*ap01_G291C_T296C





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