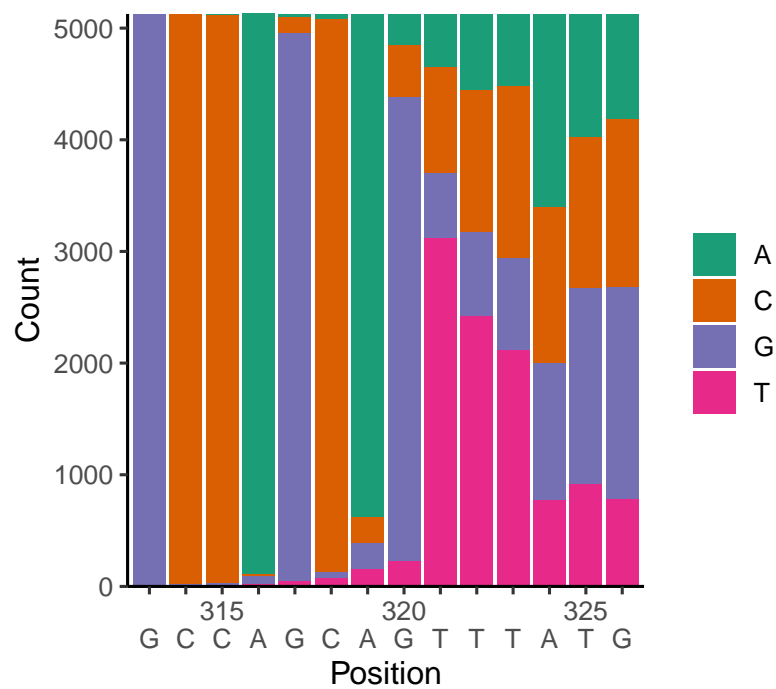
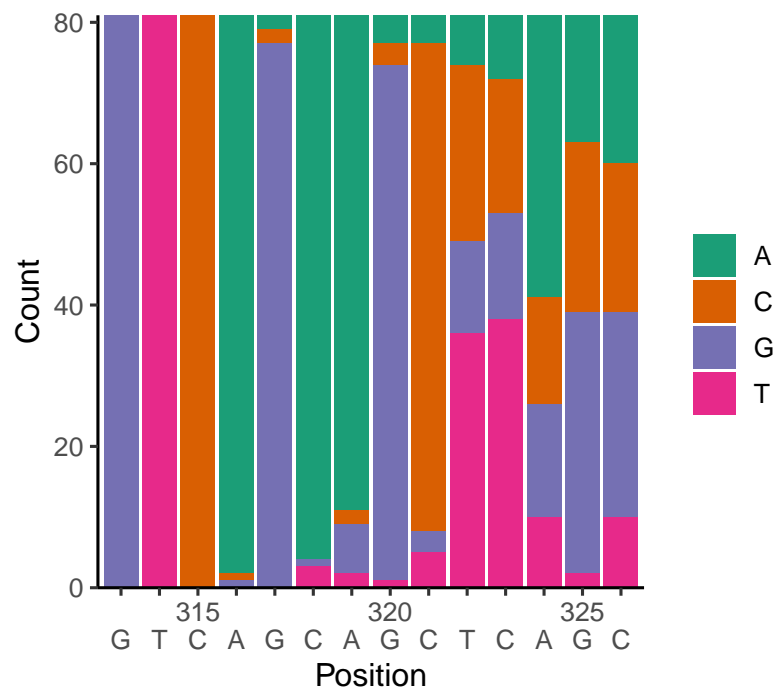


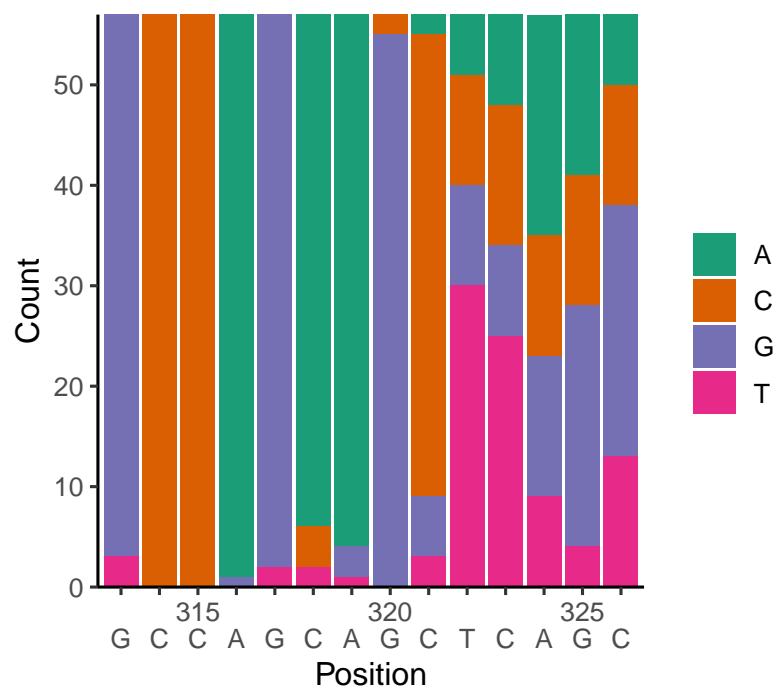
Gene TRBV28*ap01_A297G



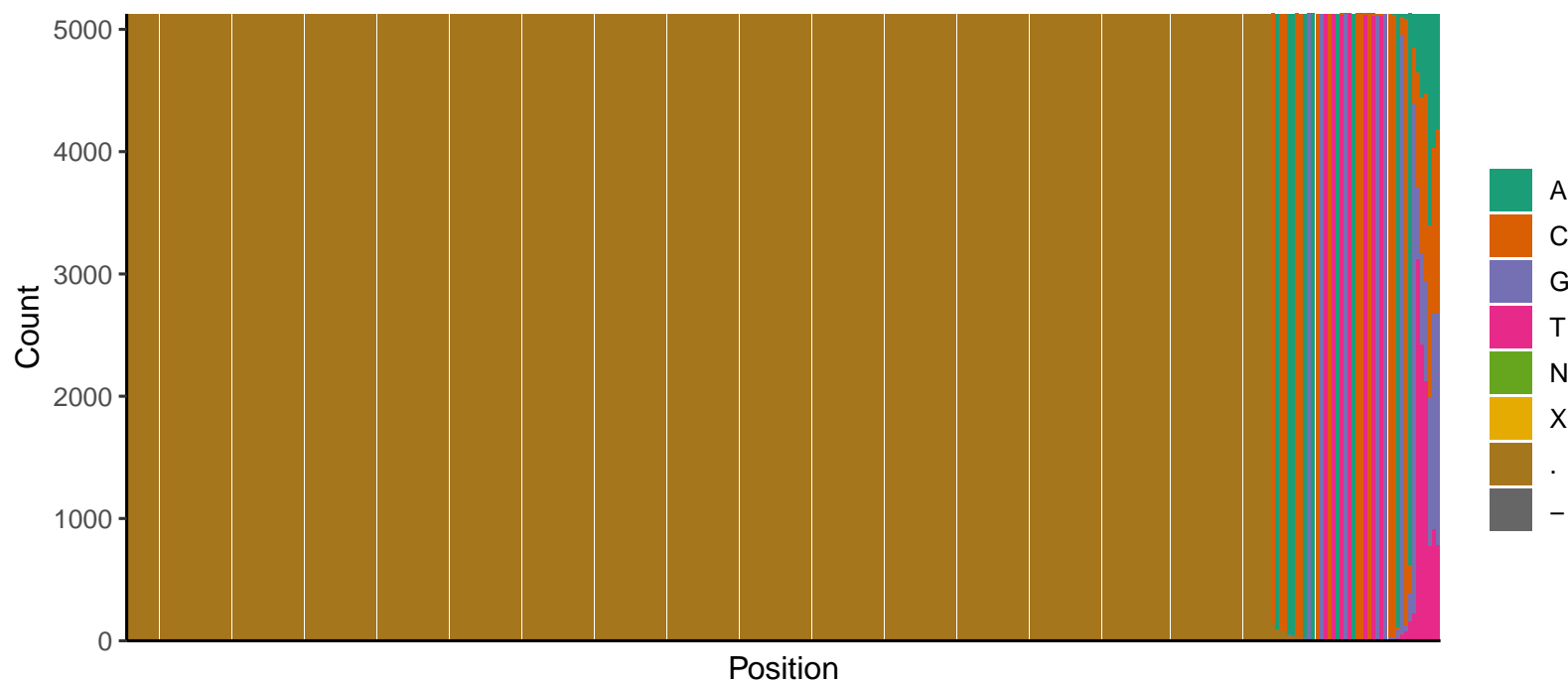
Gene TRBV7-1*ap01_G291C_T296C_C314T



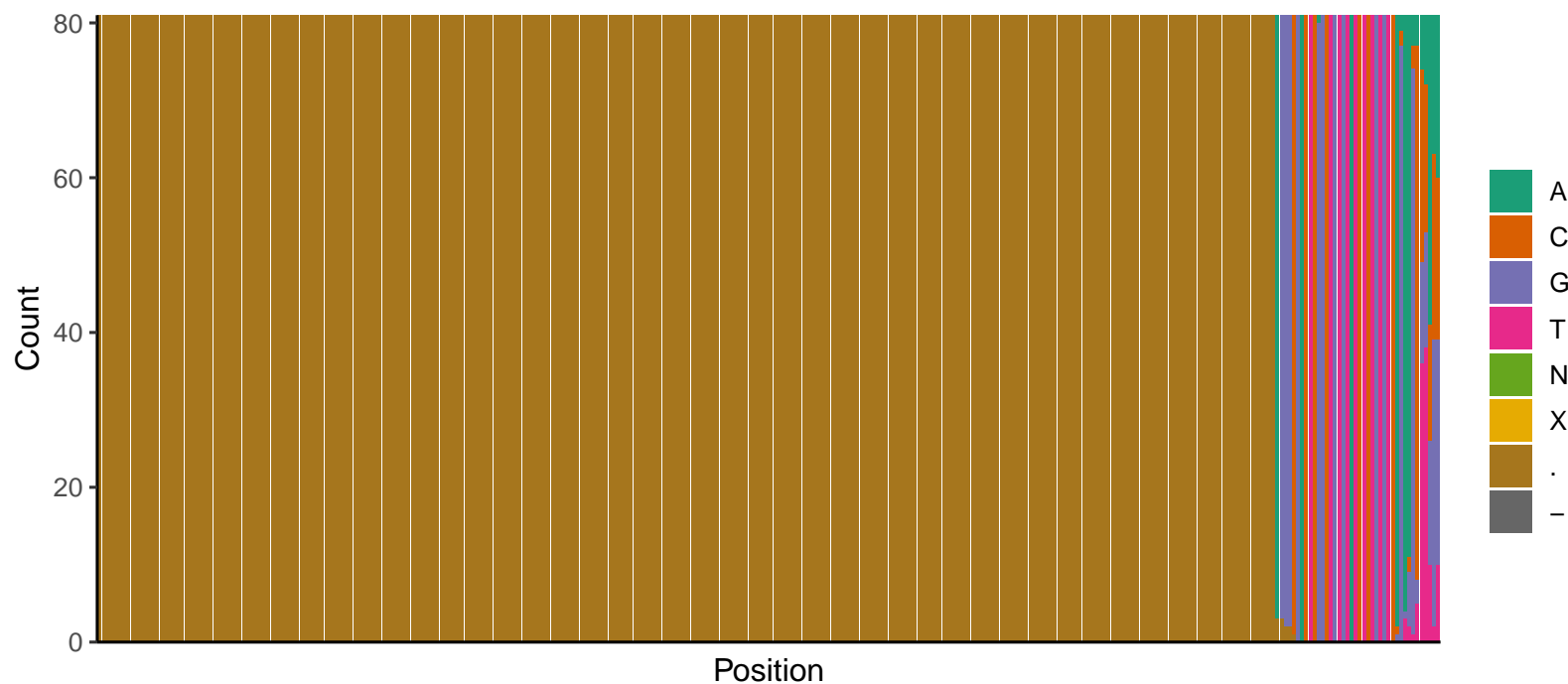
Gene TRBV7-1*ap01_G291C_T296C



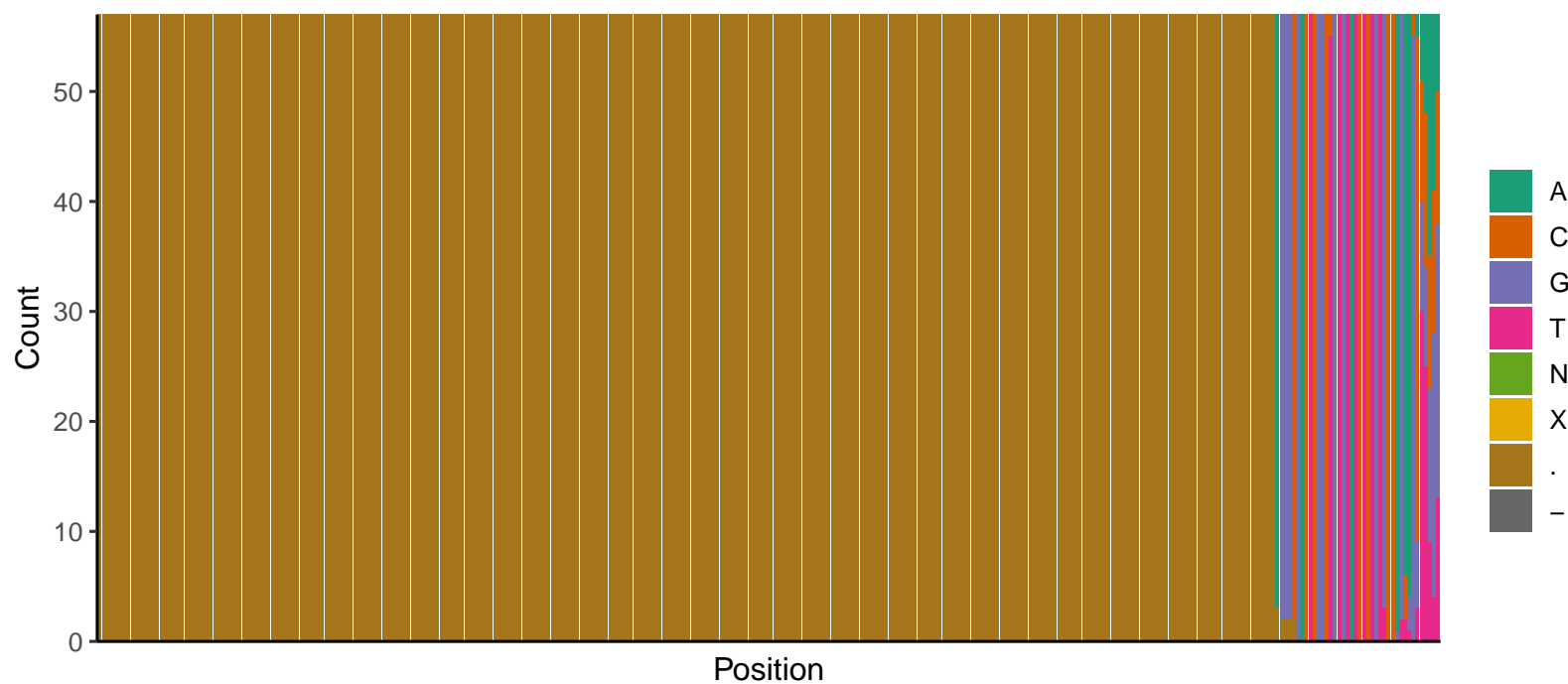
Gene TRBV28*ap01_A297G



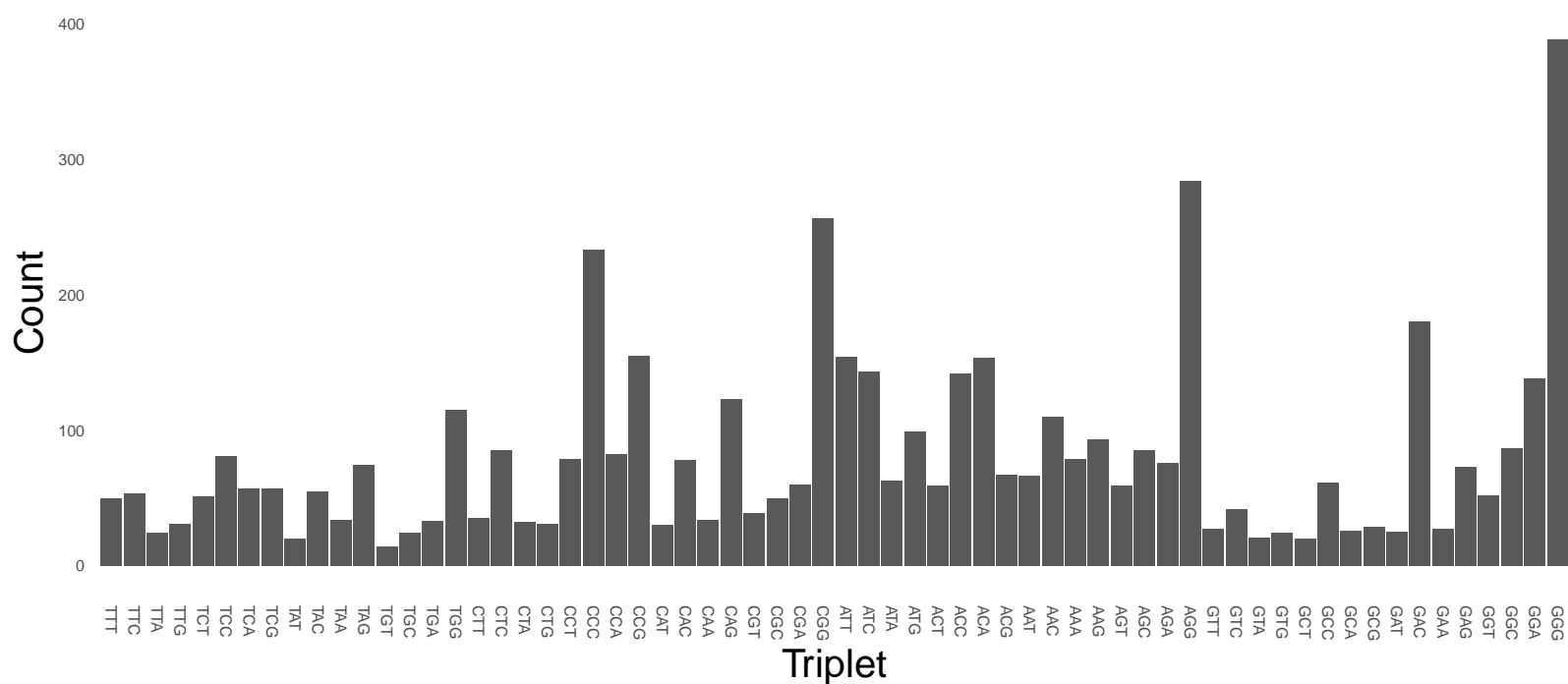
Gene TRBV7-1*ap01_G291C_T296C_C314T



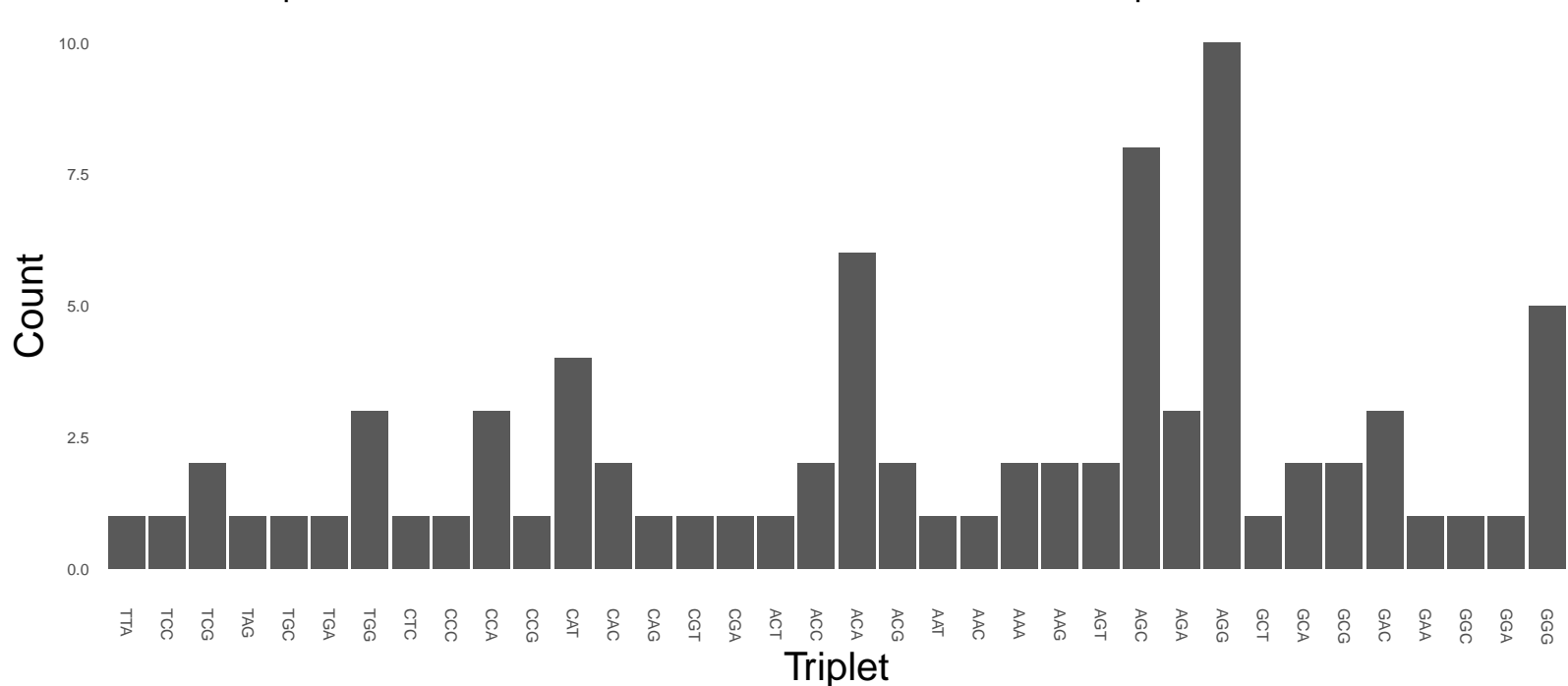
Gene TRBV7-1*ap01_G291C_T296C



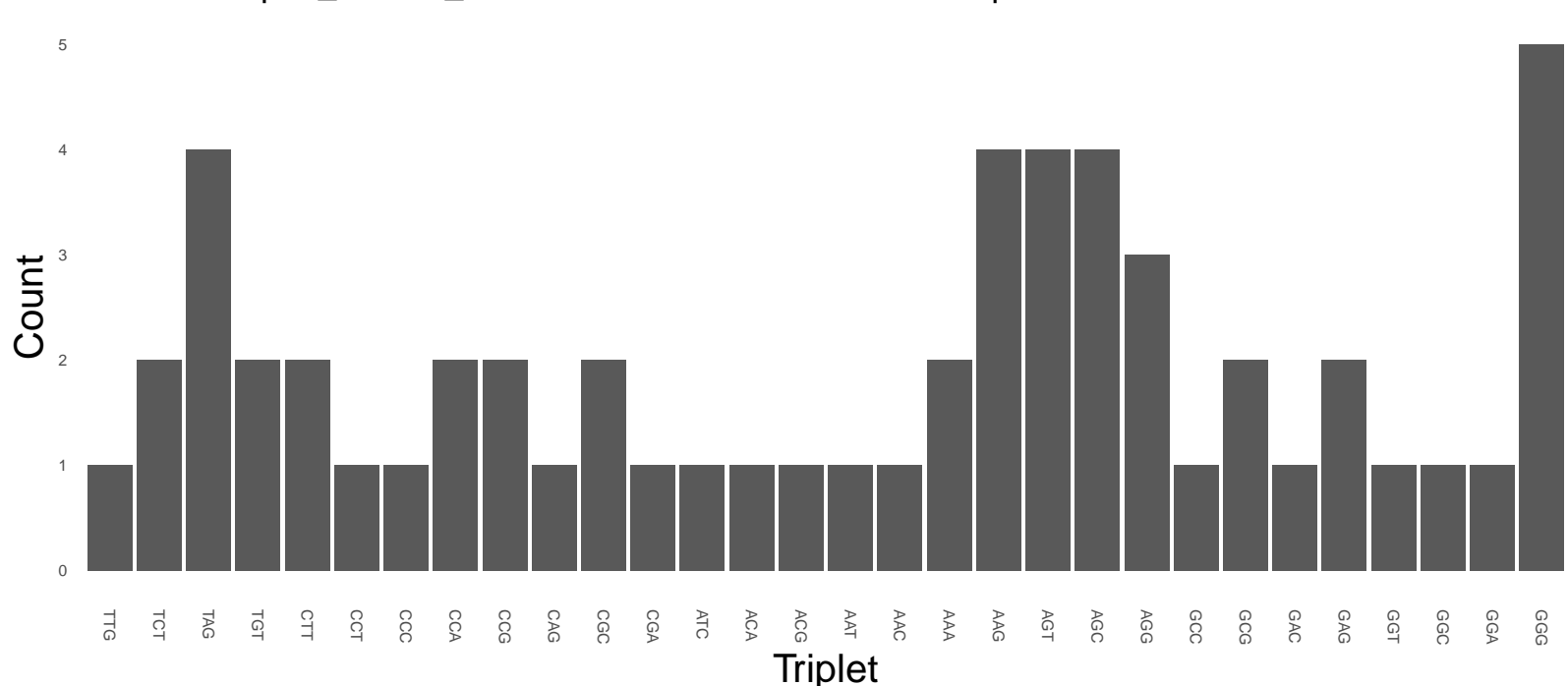
TRBV28*ap01_A297G– Final 3 nucleotides as a triplet



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

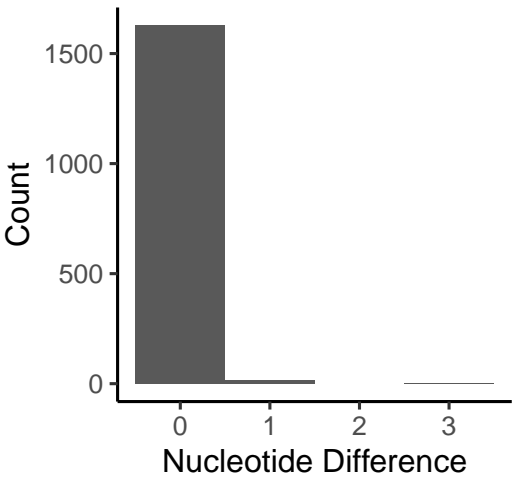


TRBV7-1*ap01_G291C_T296C– Final 3 nucleotides as a triplet



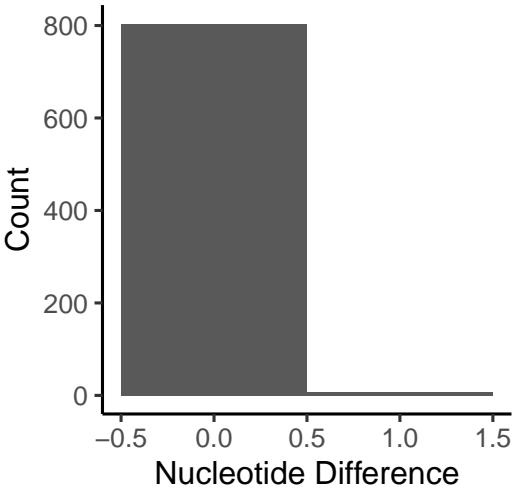
TRBV10-1*ap01

1644 sequences assigned
1628 (99%) exact matches, in which:
1583 unique CDR3
13 unique J



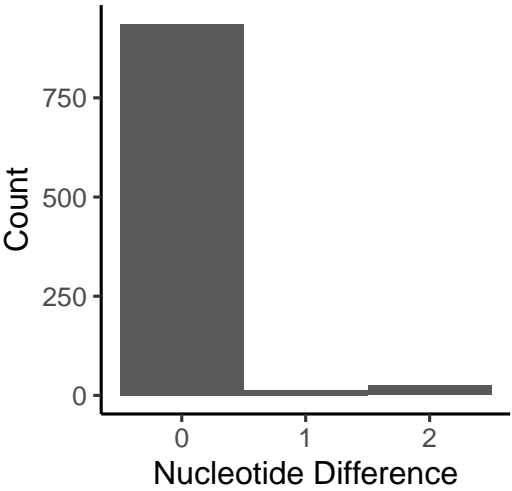
TRBV10-2*ap01

811 sequences assigned
804 (99.1%) exact matches, in which:
786 unique CDR3
13 unique J



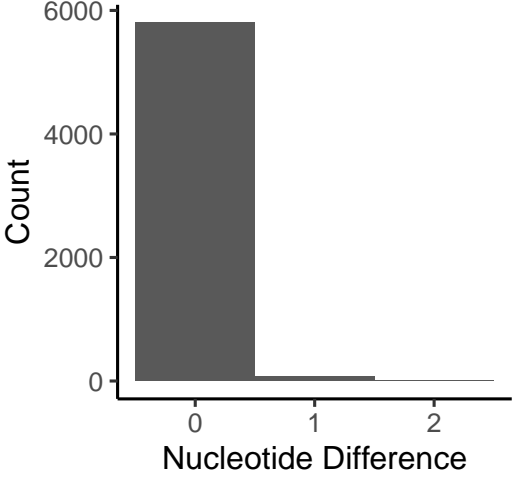
TRBV13*ap01

976 sequences assigned
937 (96%) exact matches, in which:
909 unique CDR3
13 unique J



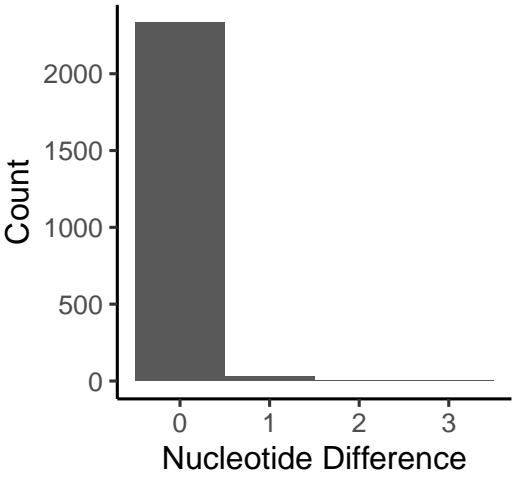
TRBV20-1*ap01

5878 sequences assigned
5801 (98.7%) exact matches, in which:
5697 unique CDR3
13 unique J



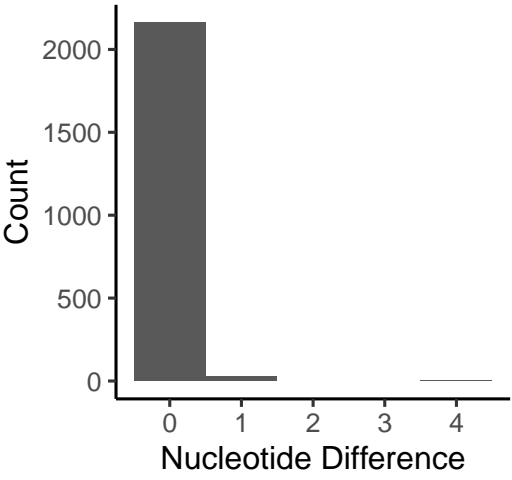
TRBV10-3*ap01

2372 sequences assigned
2332 (98.3%) exact matches, in which:
2283 unique CDR3
13 unique J



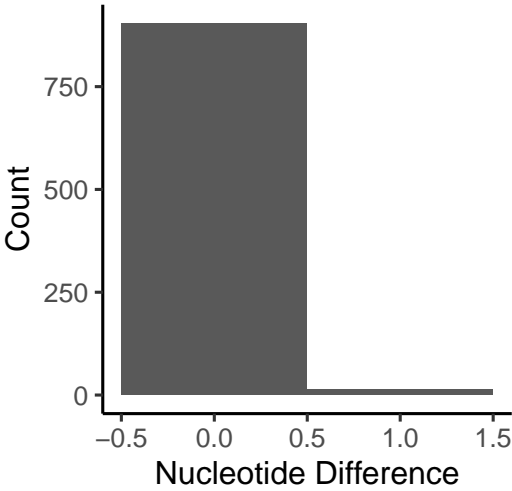
TRBV14*ap01

2188 sequences assigned
2161 (98.8%) exact matches, in which:
2105 unique CDR3
13 unique J



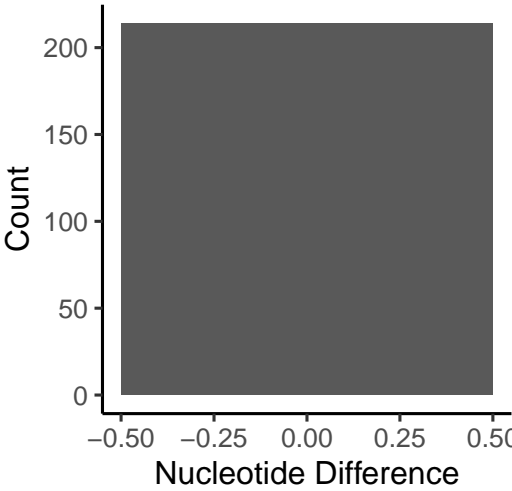
TRBV20-1*ap02

918 sequences assigned
904 (98.5%) exact matches, in which:
892 unique CDR3
13 unique J



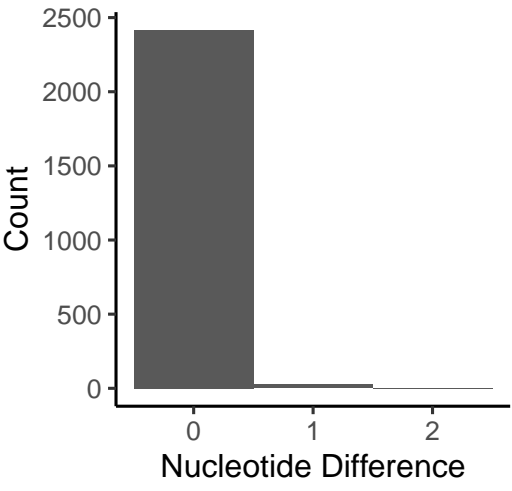
TRBV1*ap01

214 sequences assigned
214 (100%) exact matches, in which:
209 unique CDR3
13 unique J



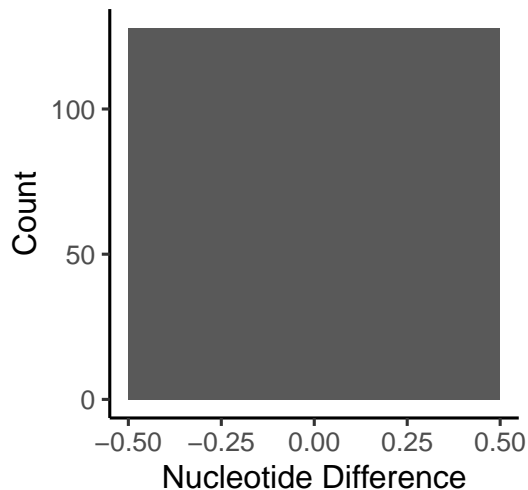
TRBV15*ap02

2444 sequences assigned
2416 (98.9%) exact matches, in which:
2357 unique CDR3
13 unique J



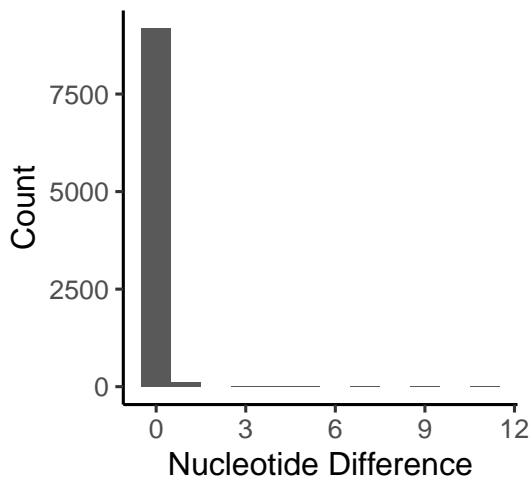
TRBV16*ap01

128 sequences assigned
128 (100%) exact matches, in which:
128 unique CDR3
13 unique J



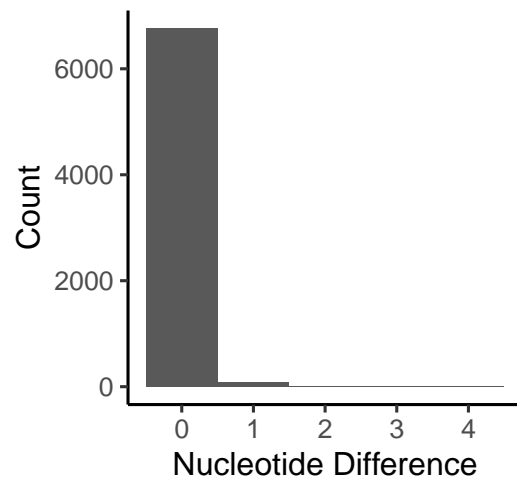
TRBV19*ap01

9306 sequences assigned
9182 (98.7%) exact matches, in which:
9007 unique CDR3
13 unique J



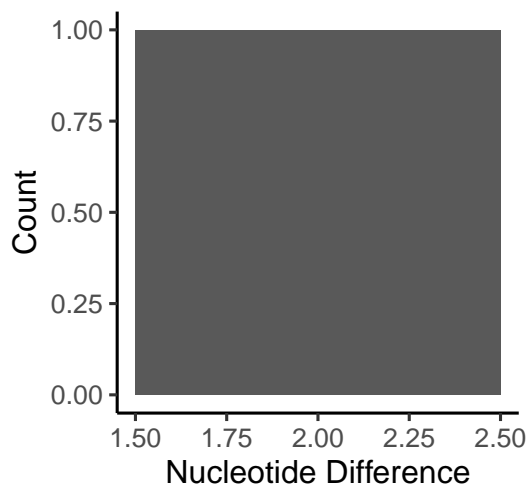
TRBV28*ap01

6852 sequences assigned
6762 (98.7%) exact matches, in which:
6592 unique CDR3
13 unique J



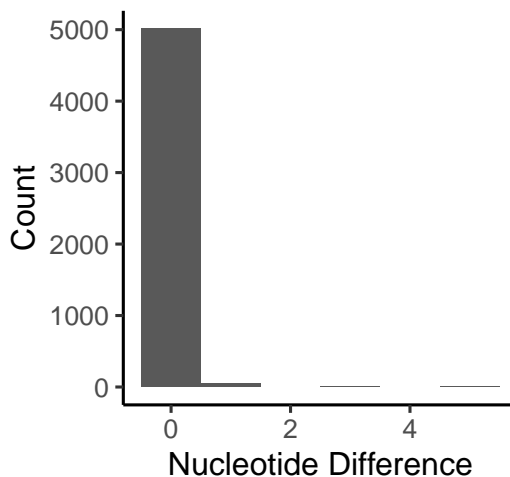
TRBV17*ap01

1 sequences assigned
No exact matches.



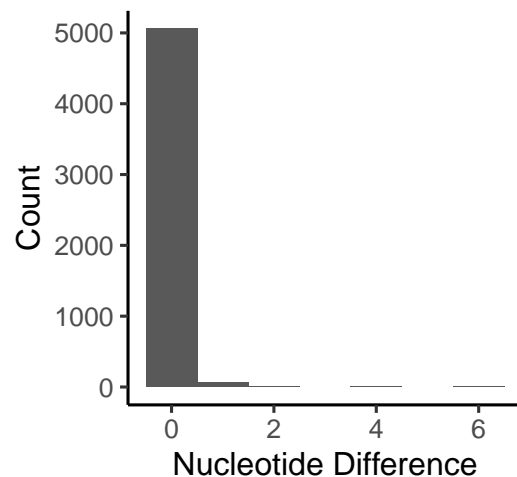
TRBV2*ap01

5068 sequences assigned
5013 (98.9%) exact matches, in which:
4910 unique CDR3
13 unique J



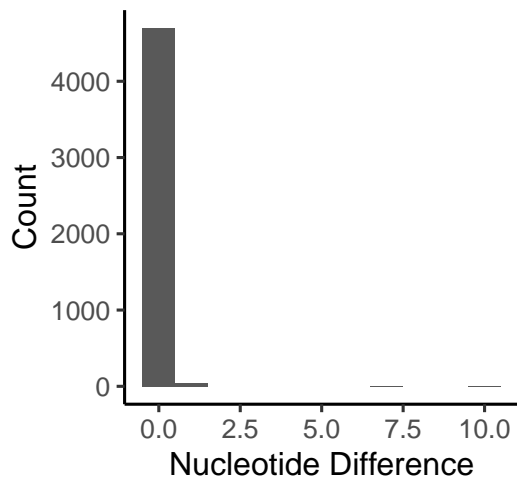
TRBV28*ap01_A297G

5127 sequences assigned
5059 (98.7%) exact matches, in which:
4960 unique CDR3
13 unique J



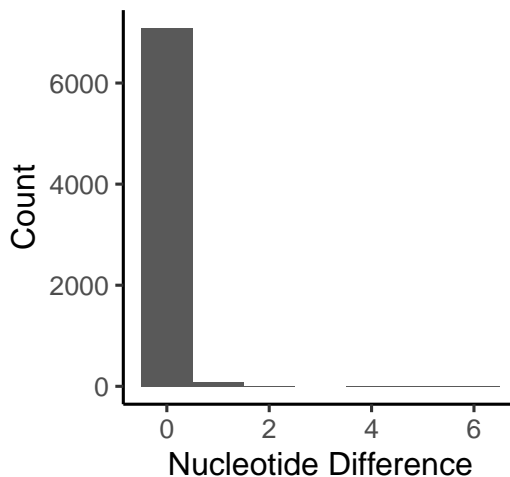
TRBV18*ap01

4740 sequences assigned
4698 (99.1%) exact matches, in which:
4601 unique CDR3
13 unique J



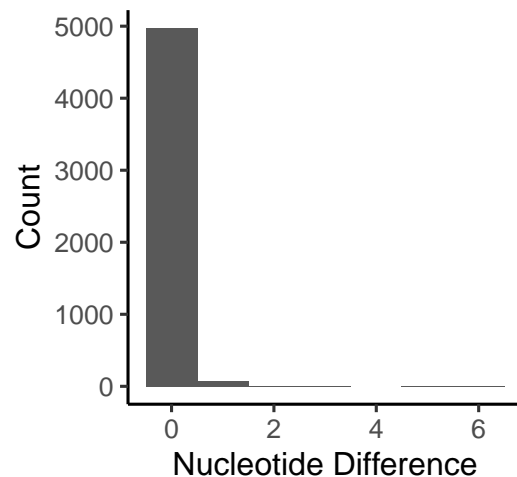
TRBV27*ap01

7180 sequences assigned
7088 (98.7%) exact matches, in which:
6898 unique CDR3
13 unique J



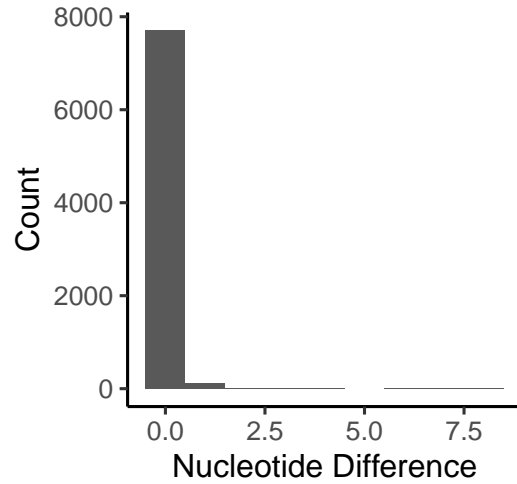
TRBV30*ap01

5052 sequences assigned
4974 (98.5%) exact matches, in which:
4911 unique CDR3
13 unique J



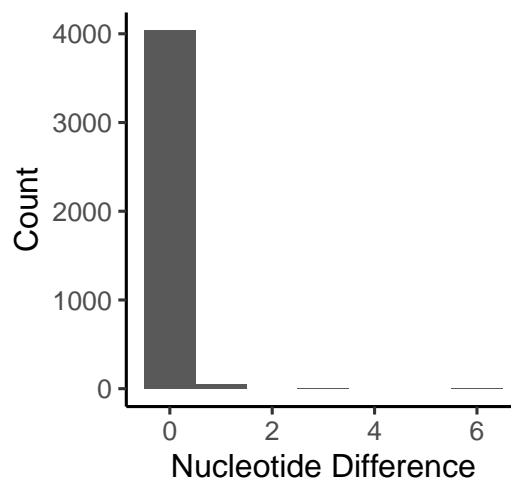
TRBV9*ap01

7834 sequences assigned
7706 (98.4%) exact matches, in which:
7533 unique CDR3
13 unique J



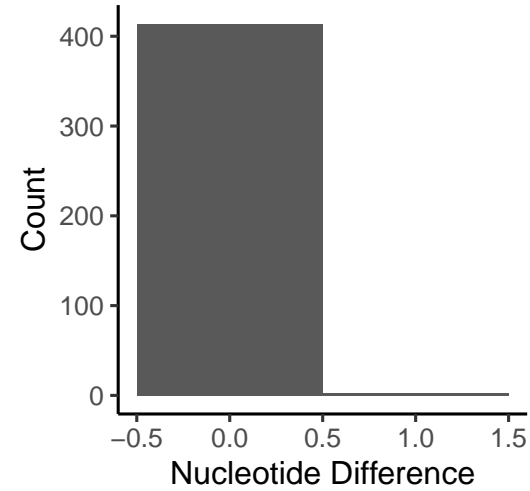
TRBV11-2*ap01

4087 sequences assigned
4038 (98.8%) exact matches, in which:
3950 unique CDR3
13 unique J



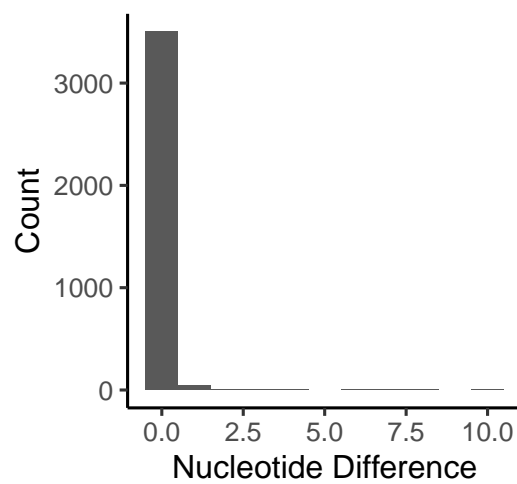
TRBV12-2*ap01

417 sequences assigned
414 (99.3%) exact matches, in which:
400 unique CDR3
13 unique J



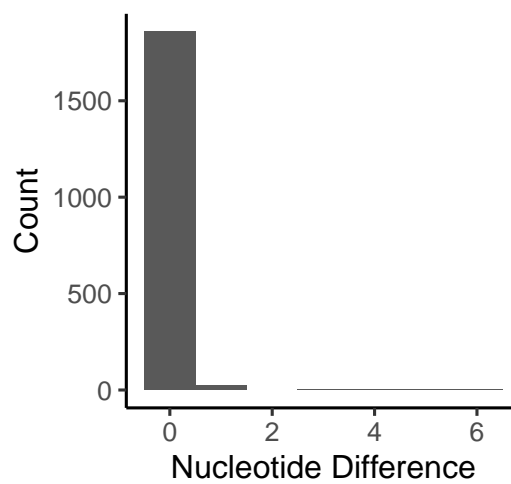
TRBV21-1*ap01

3561 sequences assigned
3502 (98.3%) exact matches, in which:
3424 unique CDR3
13 unique J



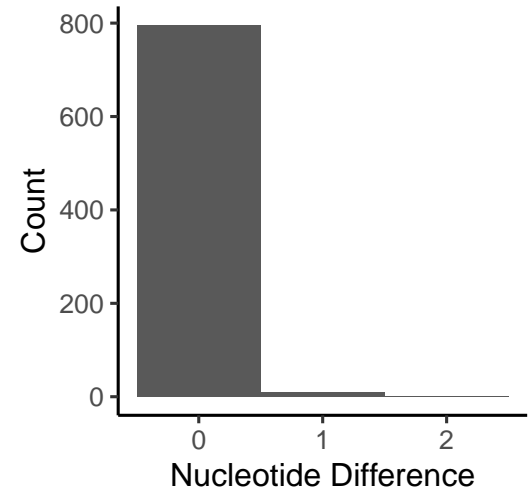
TRBV11-3*ap01

1885 sequences assigned
1858 (98.6%) exact matches, in which:
1807 unique CDR3
13 unique J



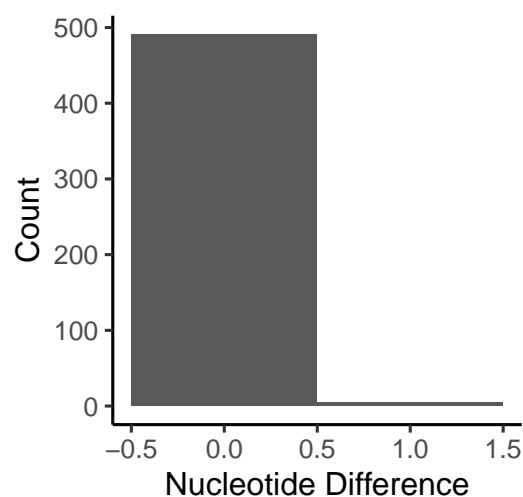
TRBV12-5*ap01

806 sequences assigned
796 (98.8%) exact matches, in which:
776 unique CDR3
13 unique J



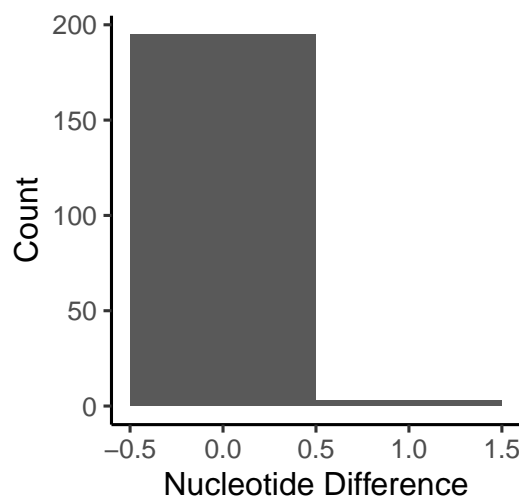
TRBV11-1*ap01

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



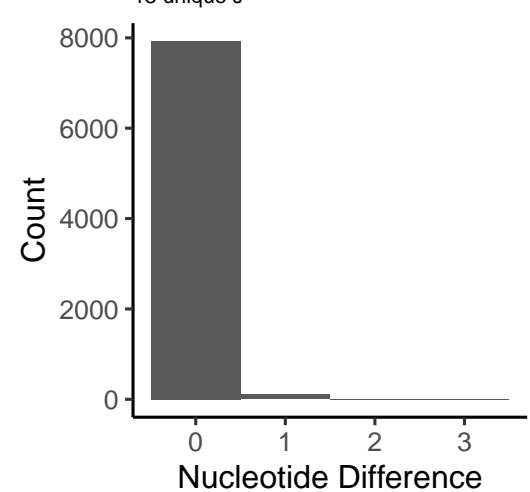
TRBV12-1*ap01

198 sequences assigned
195 (98.5%) exact matches, in which:
191 unique CDR3
13 unique J



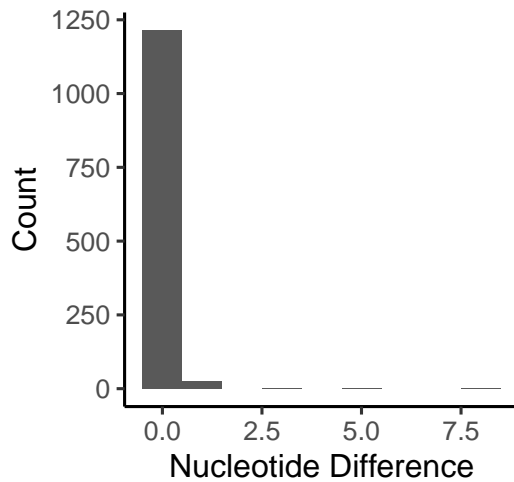
TRBV12-34*ap01

8036 sequences assigned
7929 (98.7%) exact matches, in which:
7762 unique CDR3
13 unique J



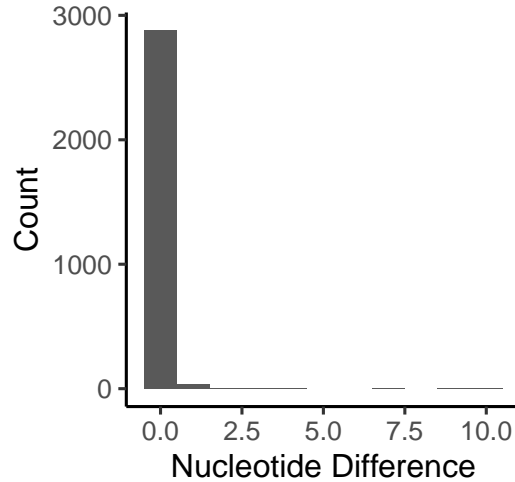
TRBV23-1*ap01

1241 sequences assigned
1214 (97.8%) exact matches, in which:
1178 unique CDR3
13 unique J



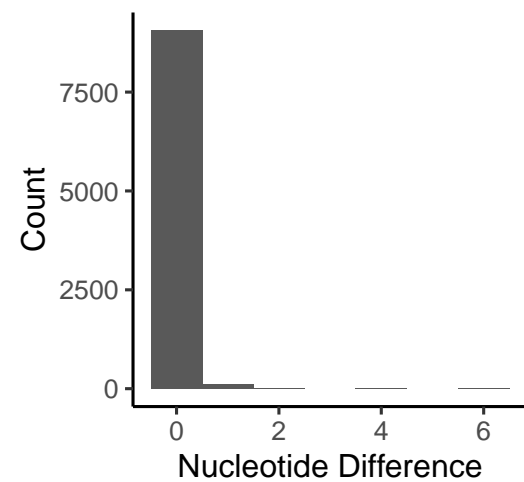
TRBV24-1*ap01

2928 sequences assigned
2879 (98.3%) exact matches, in which:
2827 unique CDR3
13 unique J



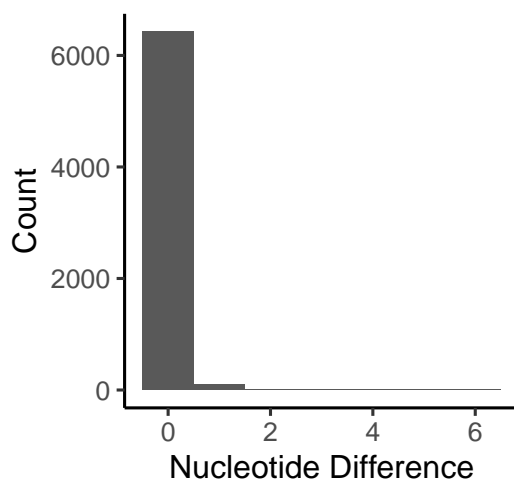
TRBV5-1*ap01

9185 sequences assigned
9060 (98.6%) exact matches, in which:
8843 unique CDR3
13 unique J



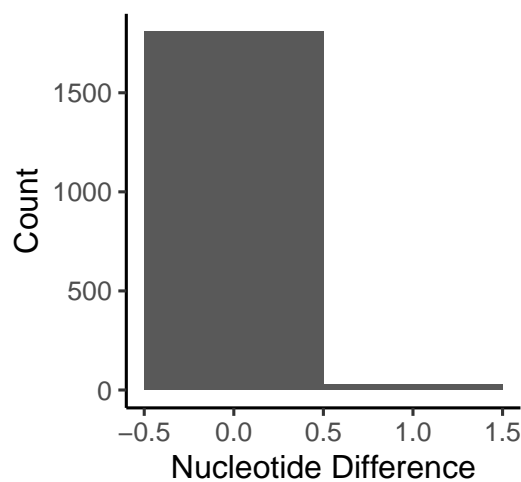
TRBV3-12*ap01

6531 sequences assigned
6425 (98.4%) exact matches, in which:
6298 unique CDR3
13 unique J



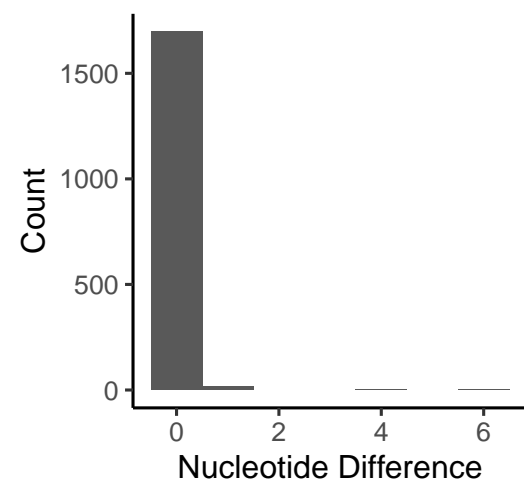
TRBV4-2*ap01

1836 sequences assigned
1808 (98.5%) exact matches, in which:
1775 unique CDR3
13 unique J



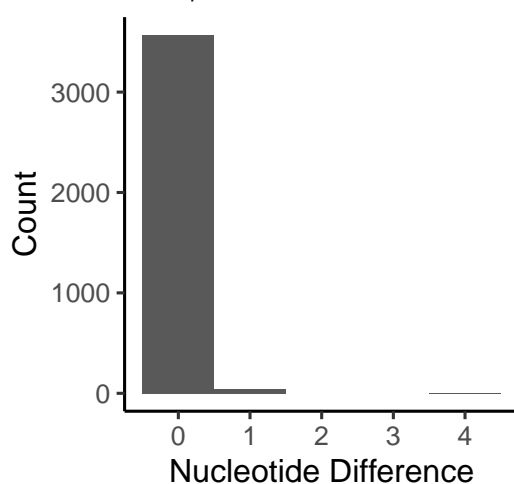
TRBV25-1*ap01

1718 sequences assigned
1697 (98.8%) exact matches, in which:
1676 unique CDR3
13 unique J



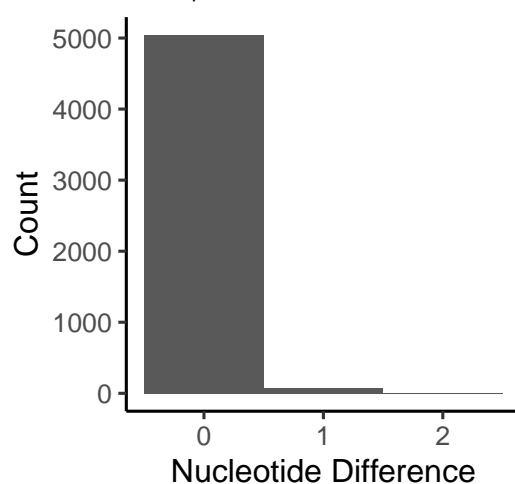
TRBV4-1*ap01

3611 sequences assigned
3568 (98.8%) exact matches, in which:
3498 unique CDR3
13 unique J



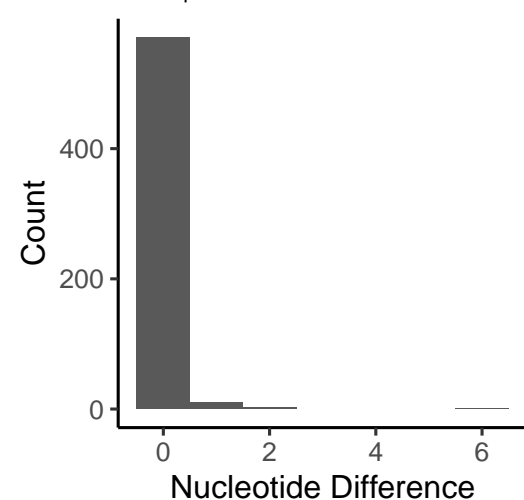
TRBV4-3*ap01

5121 sequences assigned
5042 (98.5%) exact matches, in which:
4959 unique CDR3
13 unique J



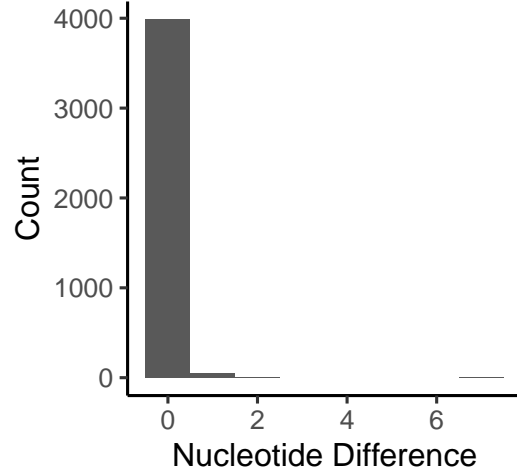
TRBV5-3*ap01

584 sequences assigned
571 (97.8%) exact matches, in which:
557 unique CDR3
13 unique J



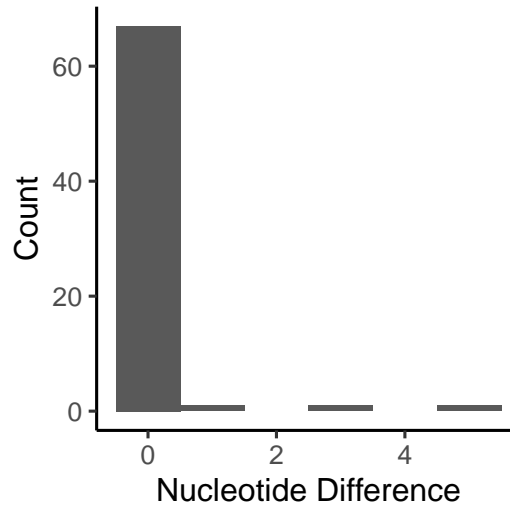
TRBV5-4*ap01

4038 sequences assigned
3987 (98.7%) exact matches, in which:
3895 unique CDR3
13 unique J



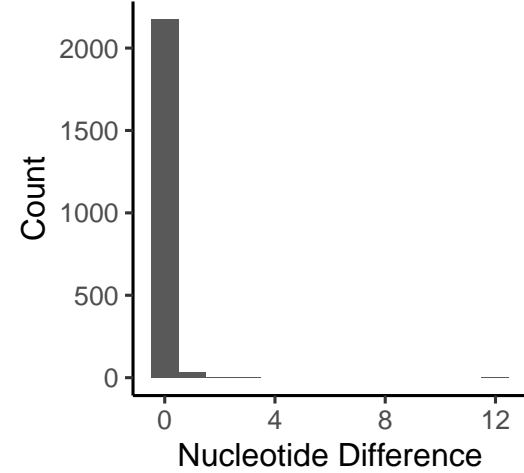
TRBV5-7*ap01

70 sequences assigned
67 (95.7%) exact matches, in which:
67 unique CDR3
12 unique J



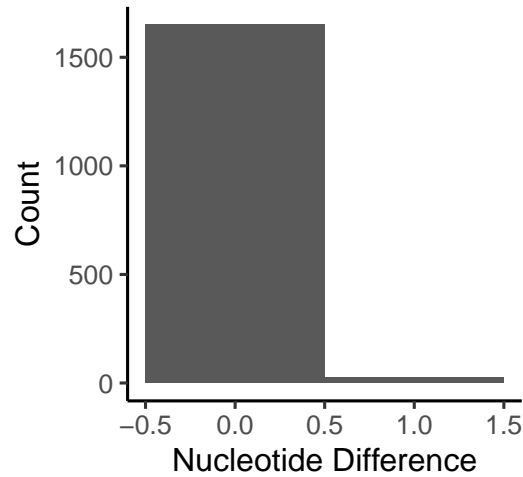
TRBV6-4*ap01

2211 sequences assigned
2174 (98.3%) exact matches, in which:
2132 unique CDR3
13 unique J



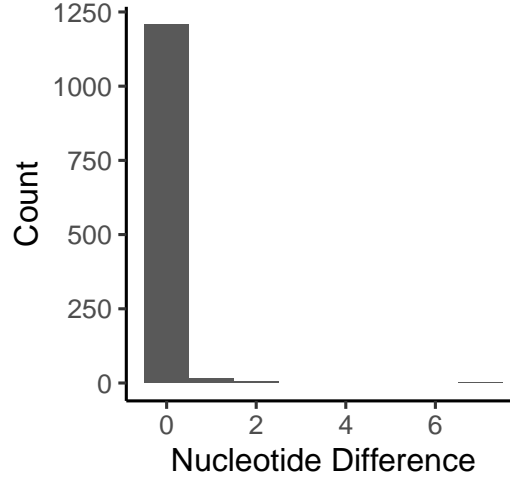
TRBV5-5*ap01

1674 sequences assigned
1650 (98.6%) exact matches, in which:
1620 unique CDR3
13 unique J



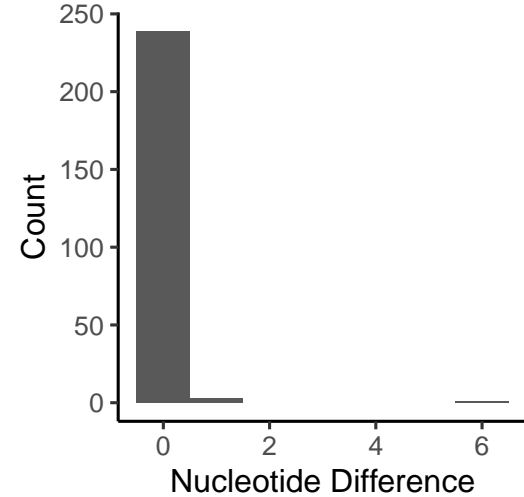
TRBV5-8*ap01

1228 sequences assigned
1207 (98.3%) exact matches, in which:
1178 unique CDR3
13 unique J



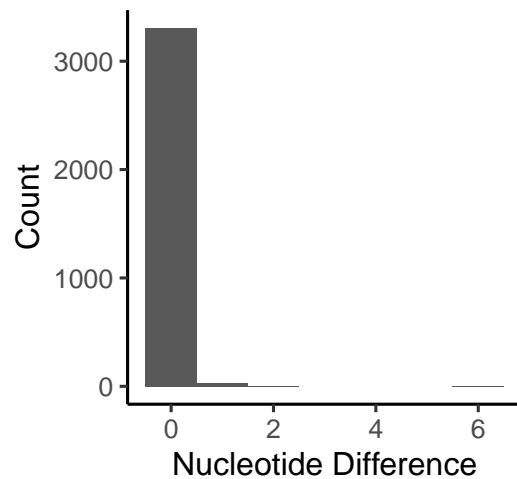
TRBV6-7*ap01

243 sequences assigned
239 (98.4%) exact matches, in which:
235 unique CDR3
13 unique J



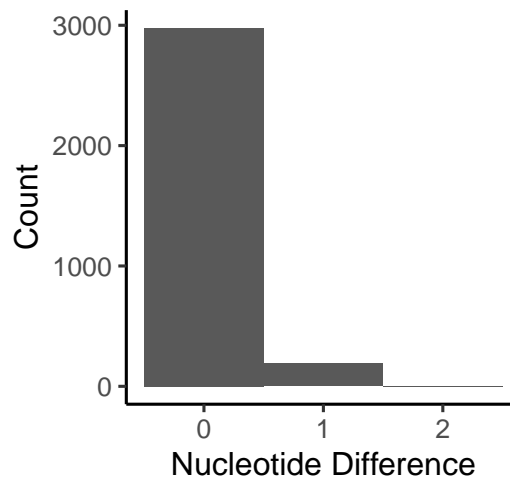
TRBV5-6*ap01

3339 sequences assigned
3306 (99%) exact matches, in which:
3242 unique CDR3
13 unique J



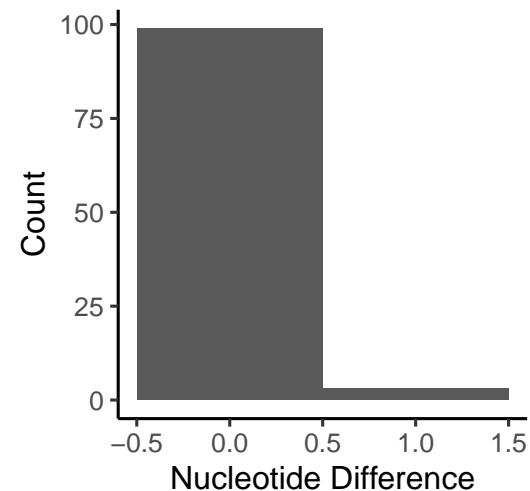
TRBV6-1*ap01

3170 sequences assigned
2977 (93.9%) exact matches, in which:
2902 unique CDR3
13 unique J



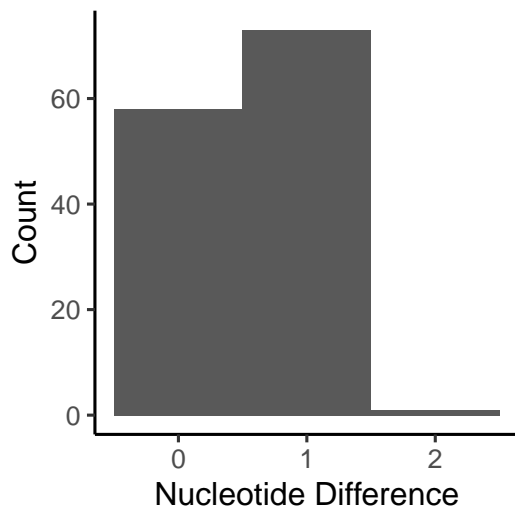
TRBV6-8*ap01

102 sequences assigned
99 (97.1%) exact matches, in which:
97 unique CDR3
13 unique J



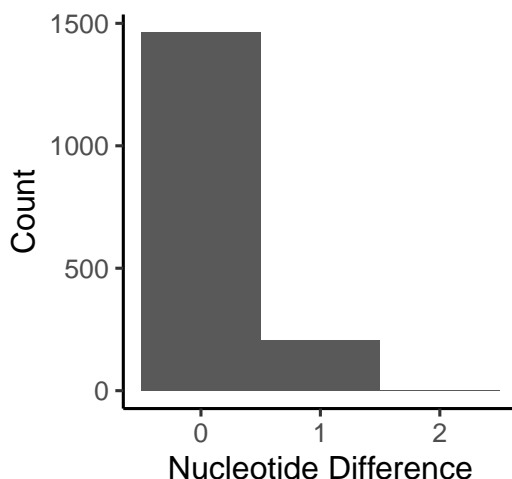
TRBV6-9*ap01

132 sequences assigned
58 (43.9%) exact matches, in which:
56 unique CDR3
12 unique J



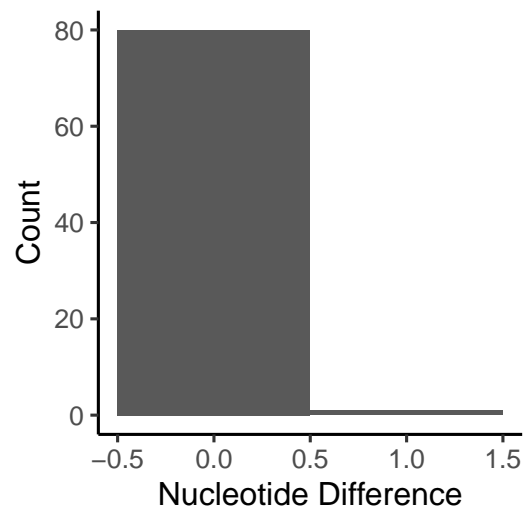
TRBV6-56*ap02

1672 sequences assigned
1463 (87.5%) exact matches, in which:
1436 unique CDR3
13 unique J



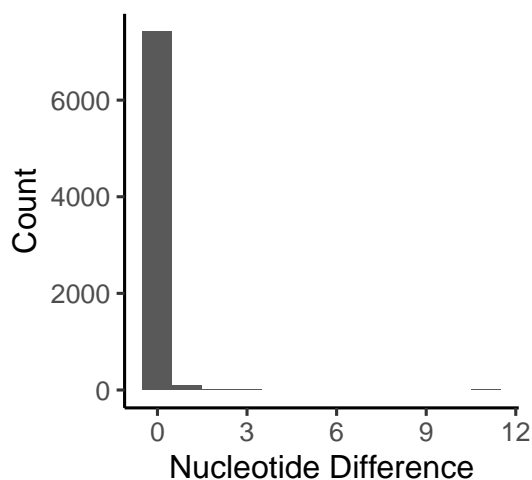
TRBV7-1*ap01_G291C_T

81 sequences assigned
80 (98.8%) exact matches, in which:
79 unique CDR3
12 unique J



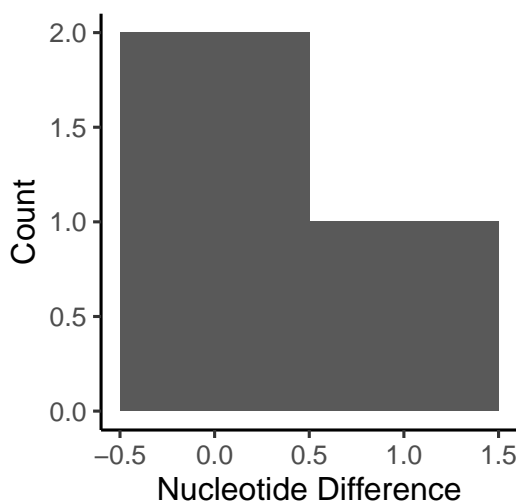
TRBV6-23*ap01

7512 sequences assigned
7416 (98.7%) exact matches, in which:
7255 unique CDR3
13 unique J



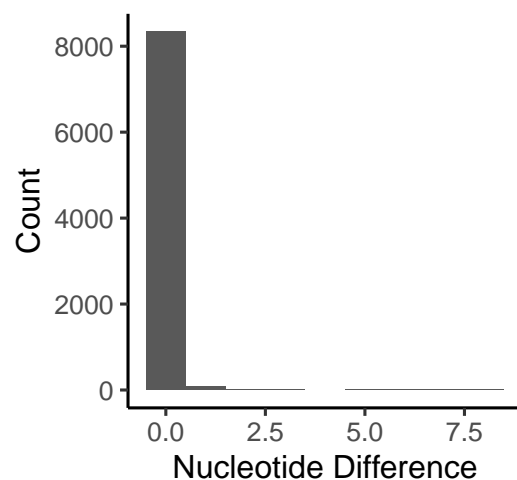
TRBV7-1*ap01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



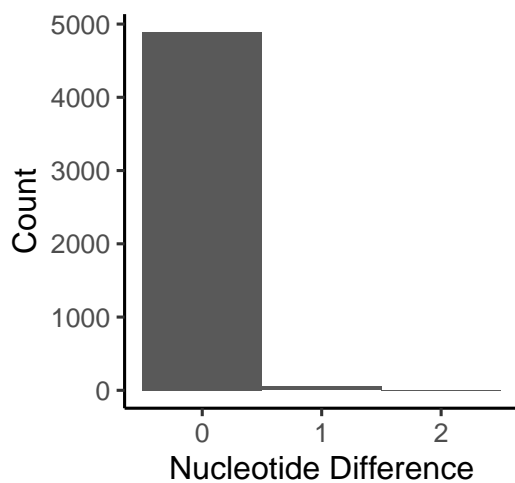
TRBV7-2*ap01

8432 sequences assigned
8337 (98.9%) exact matches, in which:
8137 unique CDR3
13 unique J



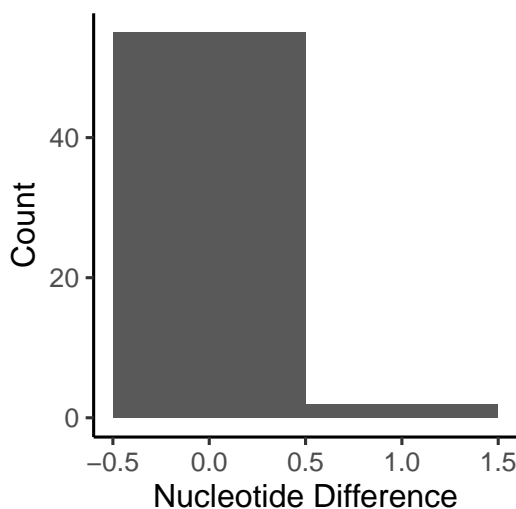
TRBV6-56*ap01

4942 sequences assigned
4891 (99%) exact matches, in which:
4781 unique CDR3
13 unique J



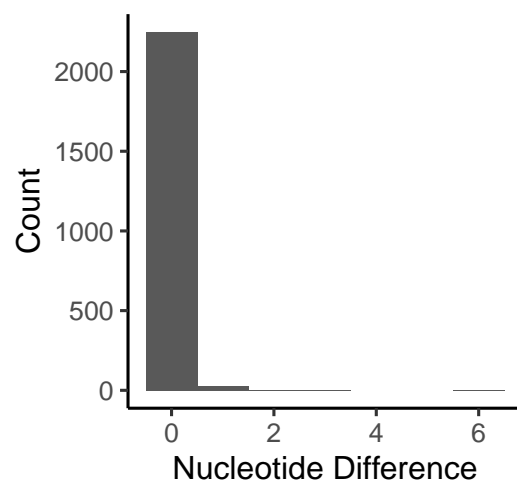
TRBV7-1*ap01_G291C_T

57 sequences assigned
55 (96.5%) exact matches, in which:
52 unique CDR3
12 unique J



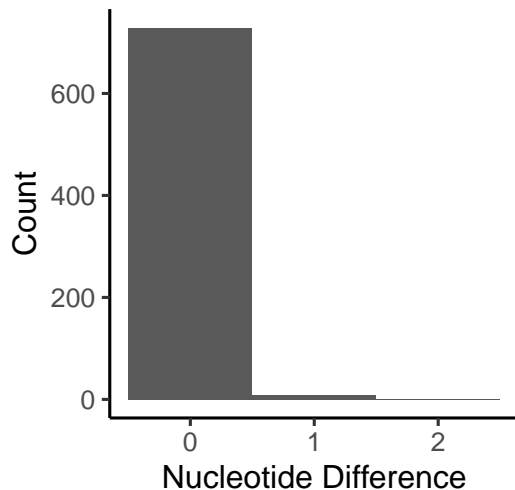
TRBV7-3*ap01

2278 sequences assigned
2248 (98.7%) exact matches, in which:
2210 unique CDR3
13 unique J



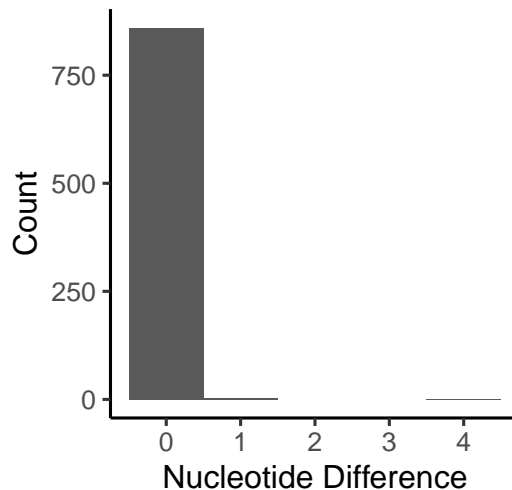
TRBV7-3*ap02

738 sequences assigned
729 (98.8%) exact matches, in which:
711 unique CDR3
13 unique J



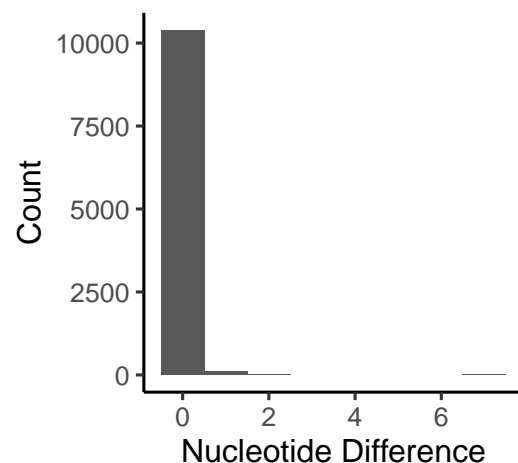
TRBV7-7*ap01

865 sequences assigned
860 (99.4%) exact matches, in which:
837 unique CDR3
13 unique J



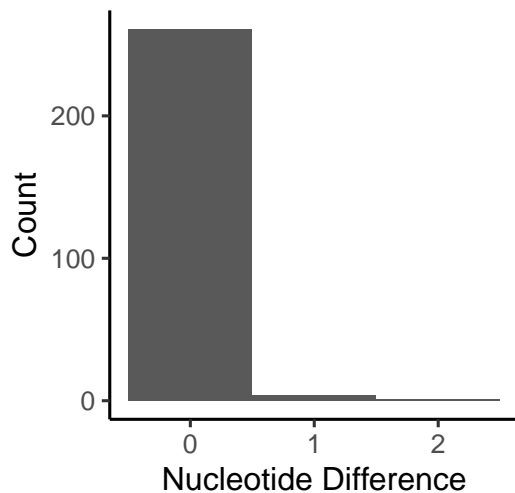
TRBV7-9*ap01

10498 sequences assigned
10389 (99%) exact matches, in which:
10203 unique CDR3
13 unique J



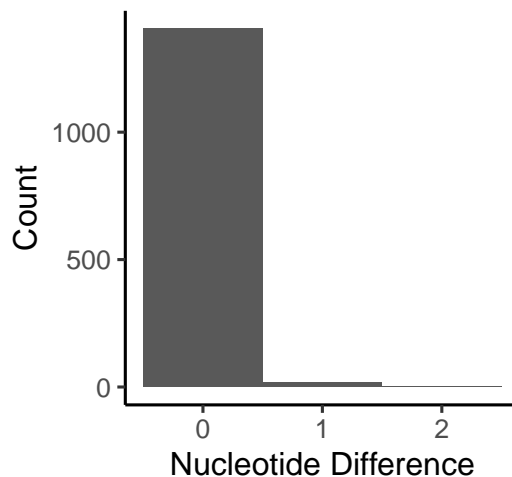
TRBV7-4*ap01

266 sequences assigned
261 (98.1%) exact matches, in which:
255 unique CDR3
13 unique J



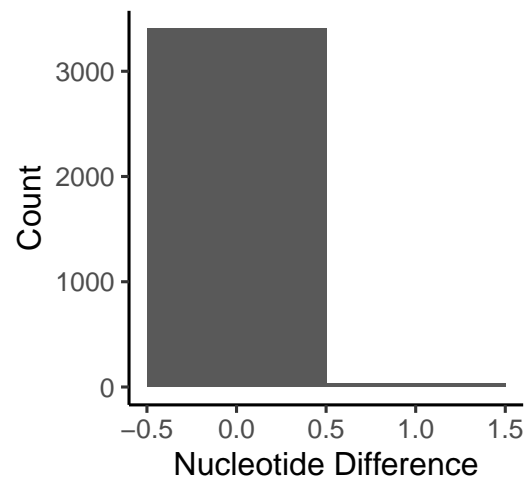
TRBV7-8*ap01

1426 sequences assigned
1406 (98.6%) exact matches, in which:
1368 unique CDR3
13 unique J



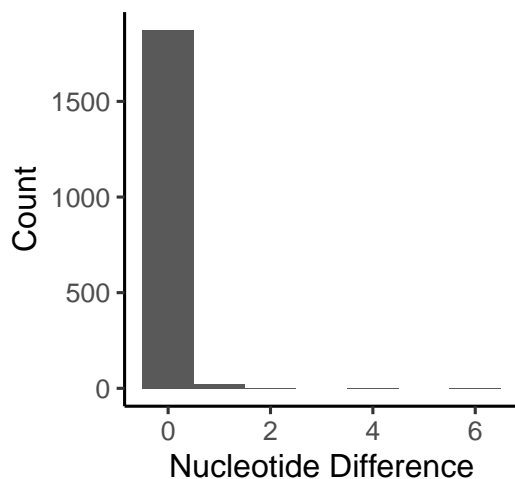
TRBV29-1*ap01

3439 sequences assigned
3404 (99%) exact matches, in which:
3361 unique CDR3
13 unique J



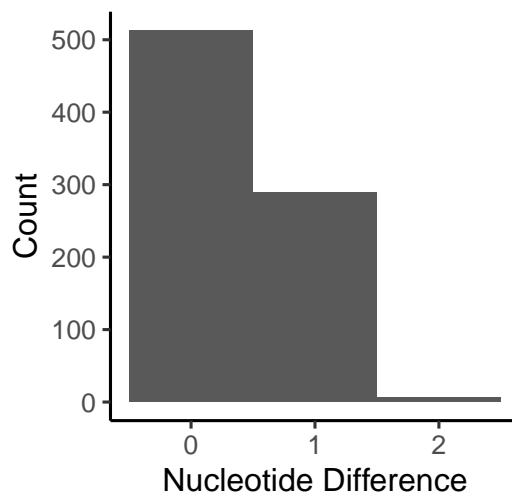
TRBV7-6*ap01

1898 sequences assigned
1873 (98.7%) exact matches, in which:
1834 unique CDR3
13 unique J



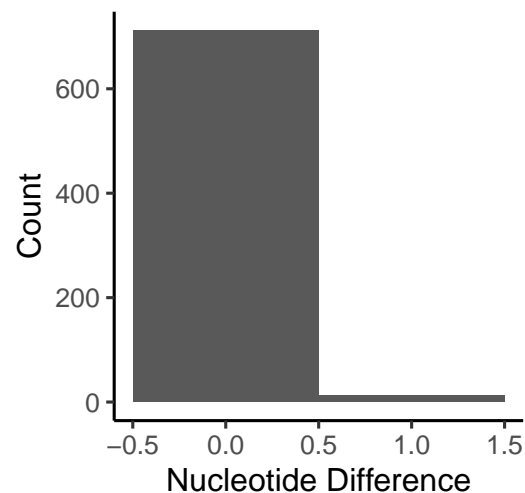
TRBV7-8*ap03

808 sequences assigned
513 (63.5%) exact matches, in which:
497 unique CDR3
13 unique J

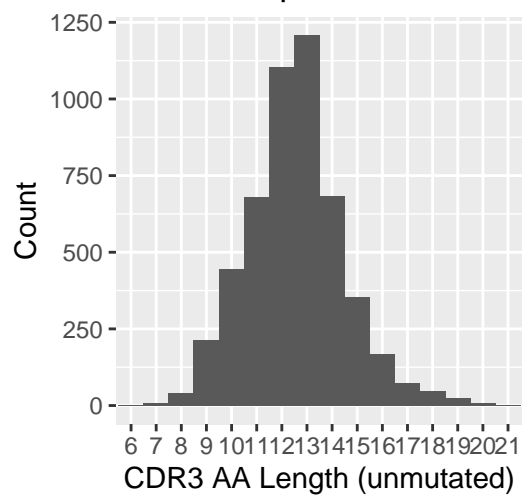


TRBV29-1*ap02

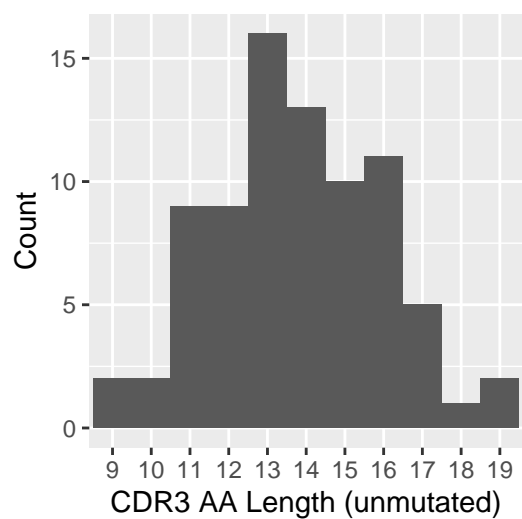
724 sequences assigned
712 (98.3%) exact matches, in which:
706 unique CDR3
13 unique J



TRBV28*ap01_A297G



TRBV7-1*ap01_G291C_T296C_C314T



TRBV7-1*ap01_G291C_T296C

