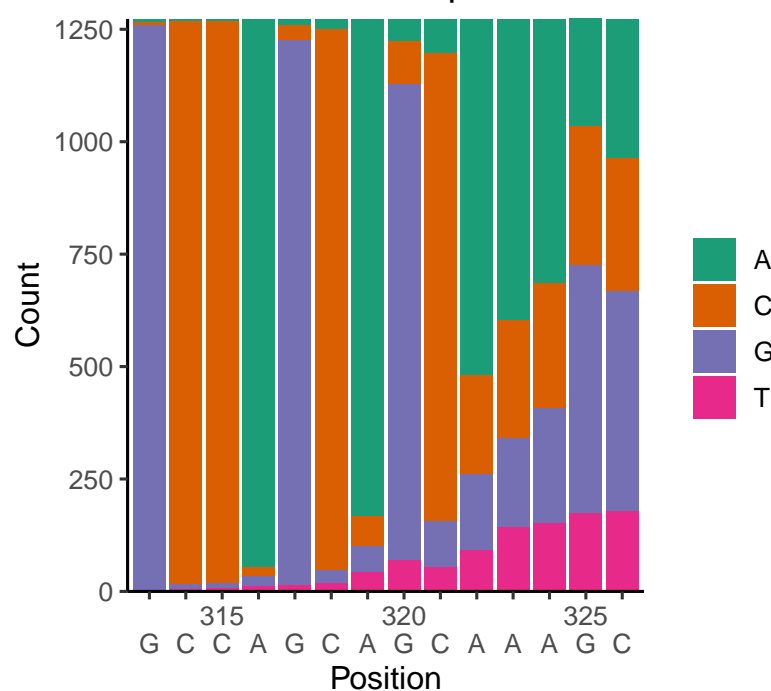
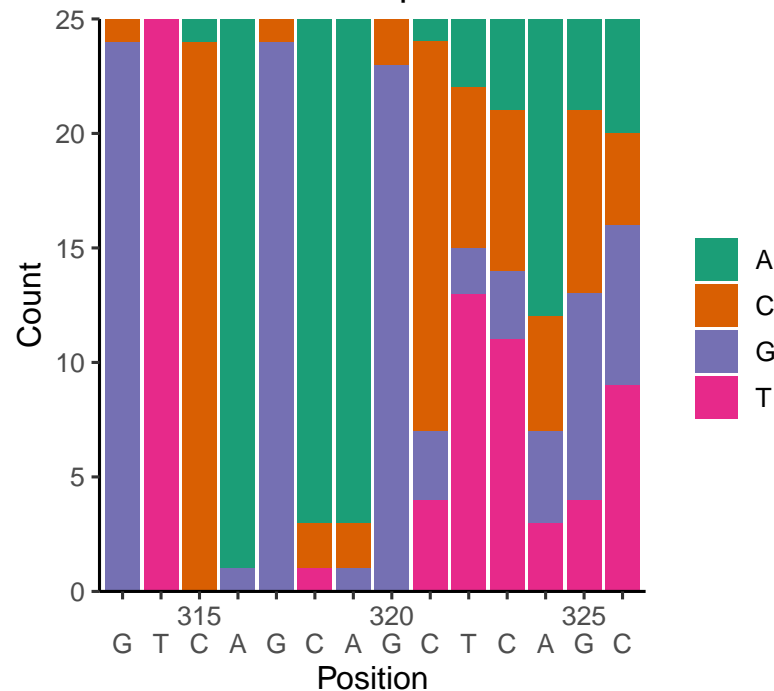


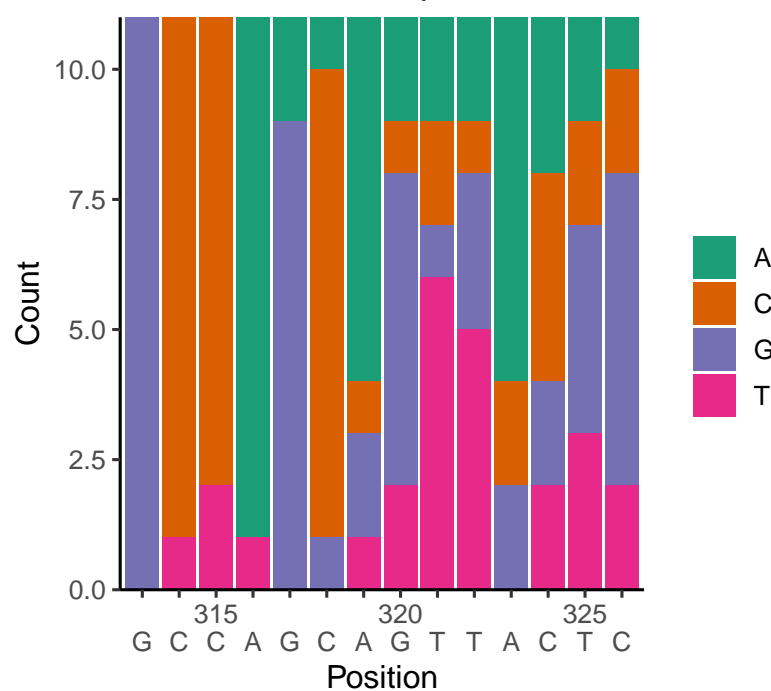
Gene TRBV21-1*ap01_T307C



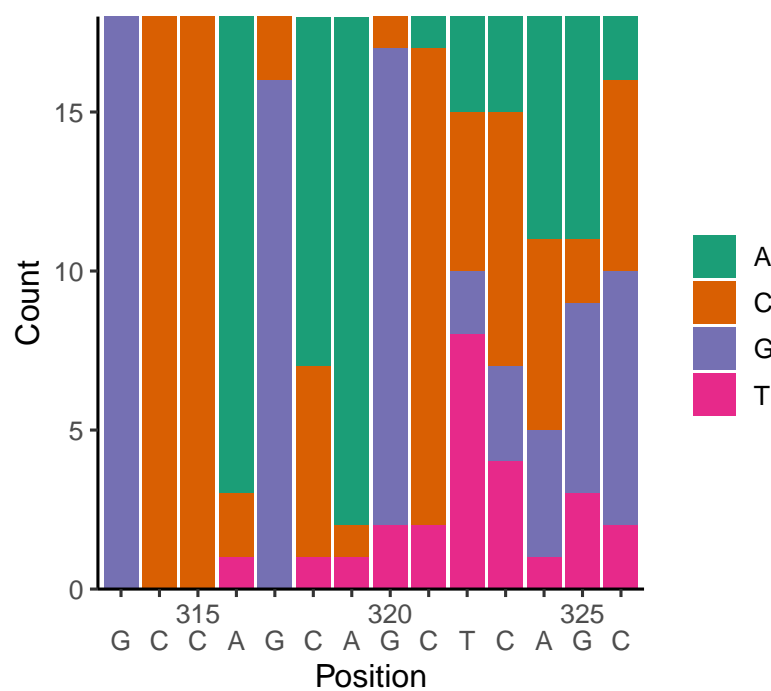
Gene TRBV7-1*ap01_T296C_C314T



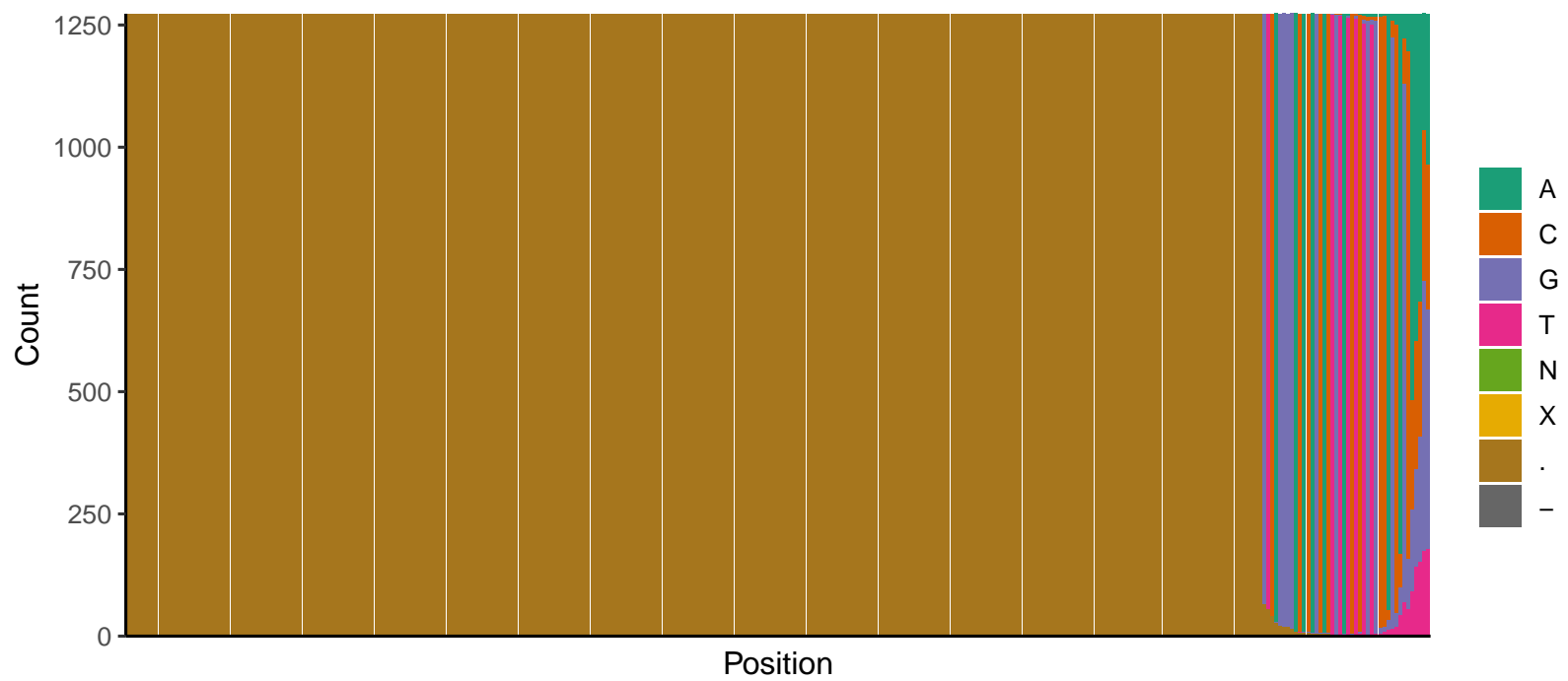
Gene TRBV6-8*ap01_A293G



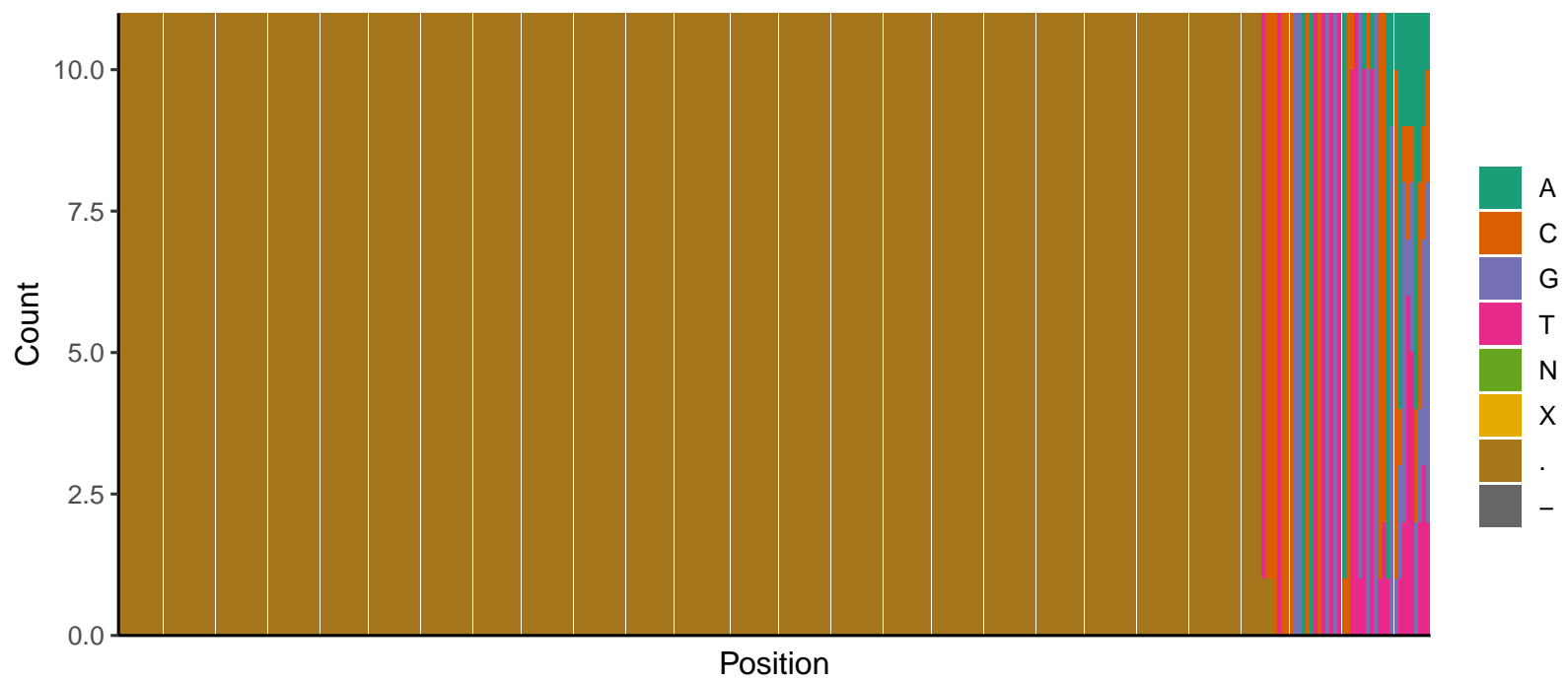
Gene TRBV7-1*ap01_T296C



Gene TRBV21-1*ap01_T307C



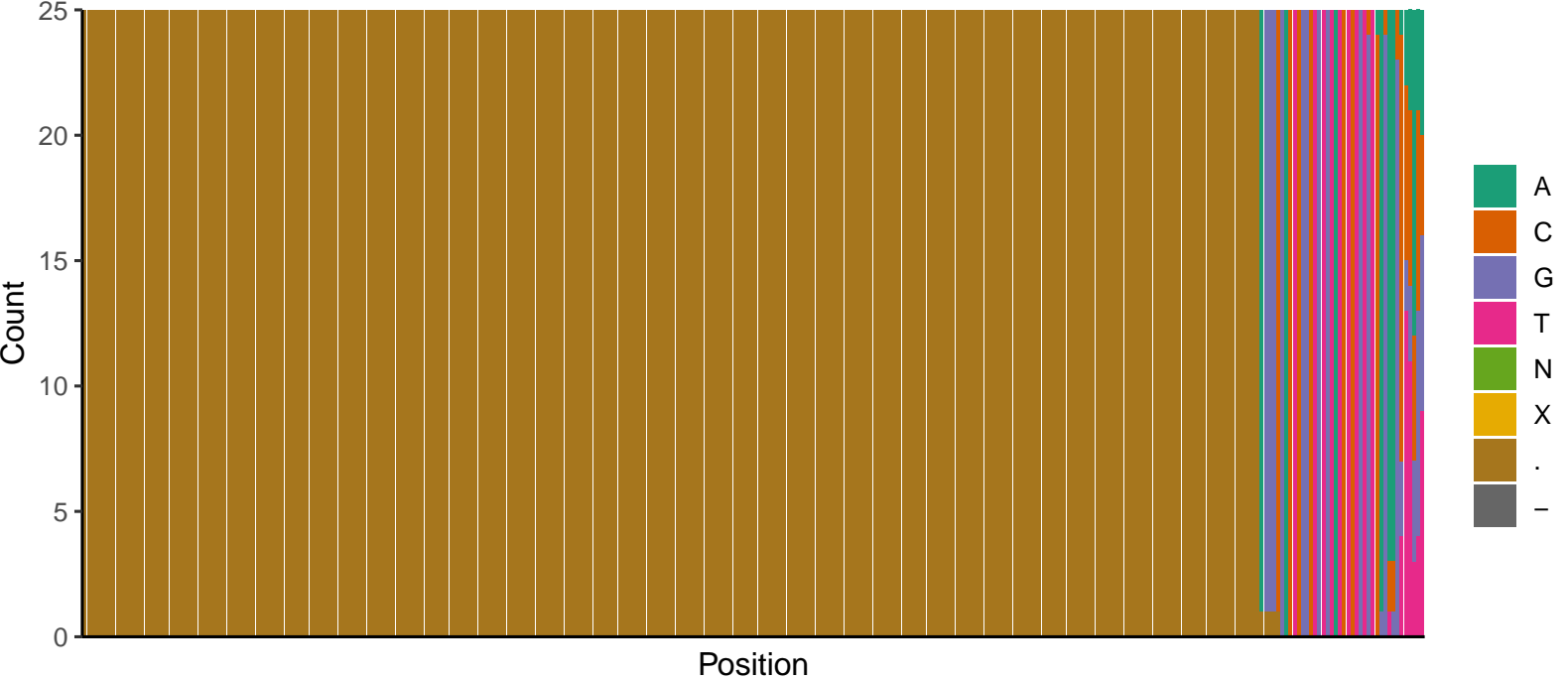
Gene TRBV6-8*ap01_A293G



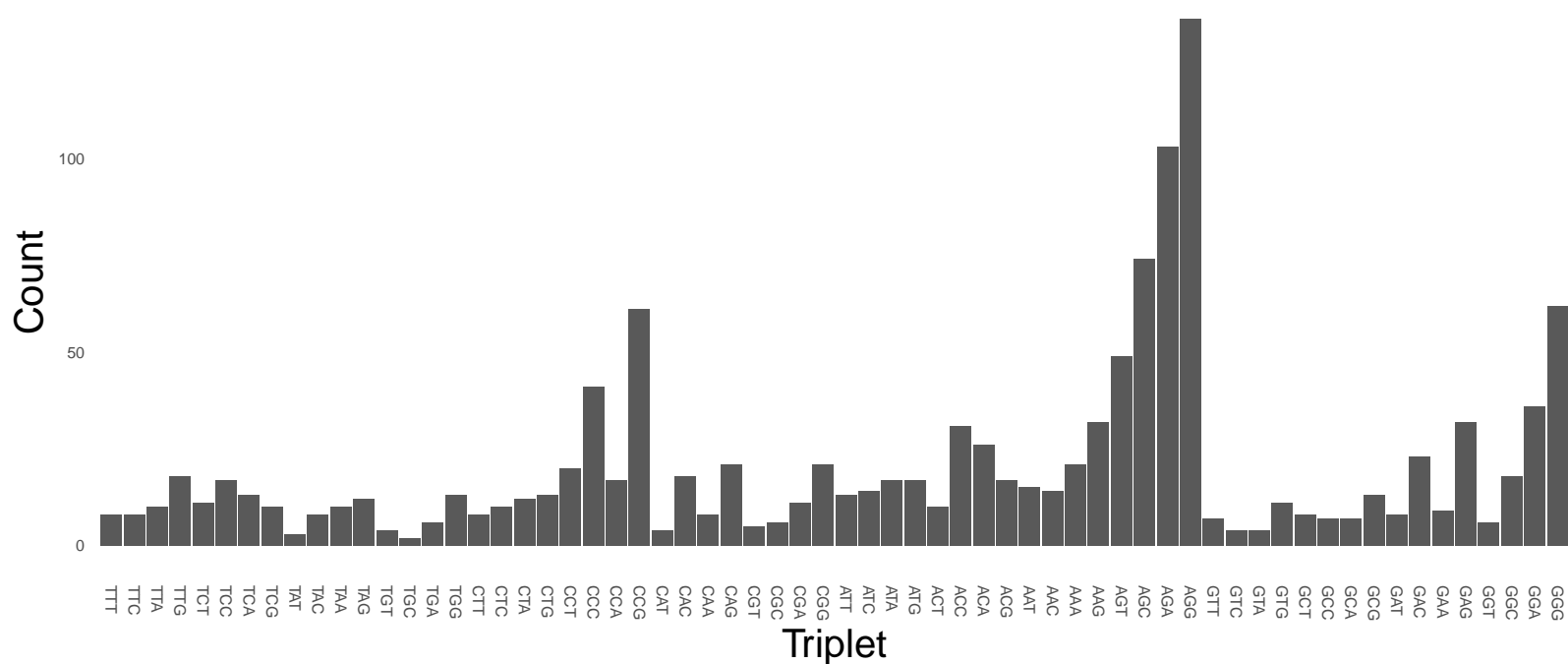
Gene TRBV7-1*ap01_T296C



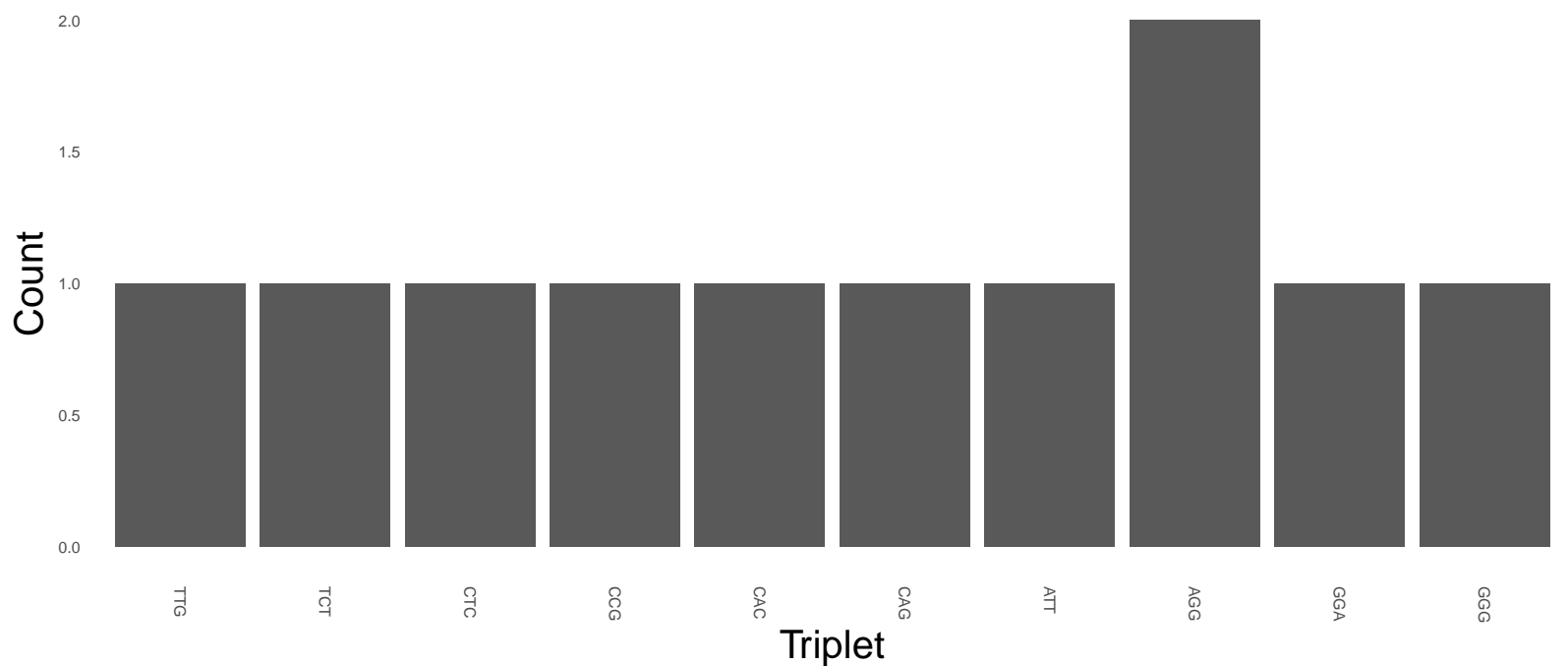
Gene TRBV7-1*ap01_T296C_C314T



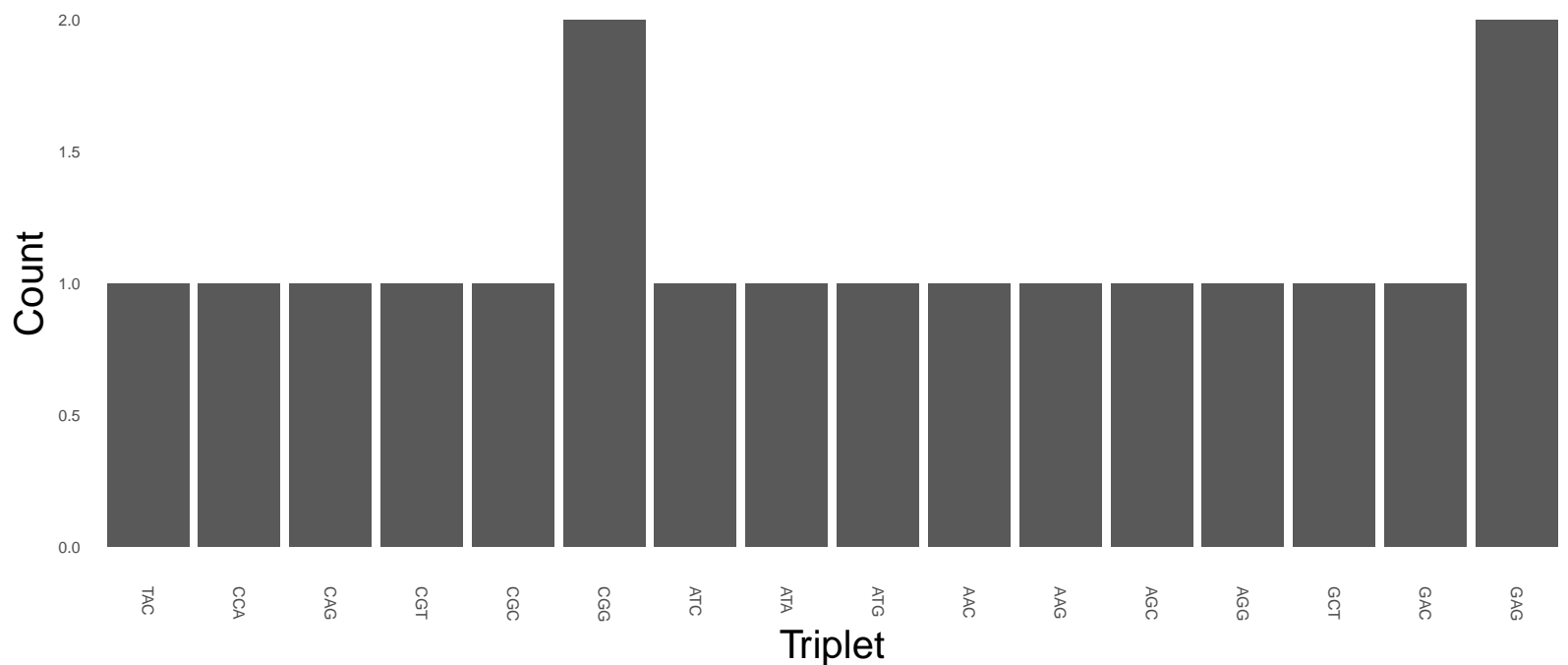
TRBV21–1*ap01_T307C– Final 3 nucleotides as a triplet



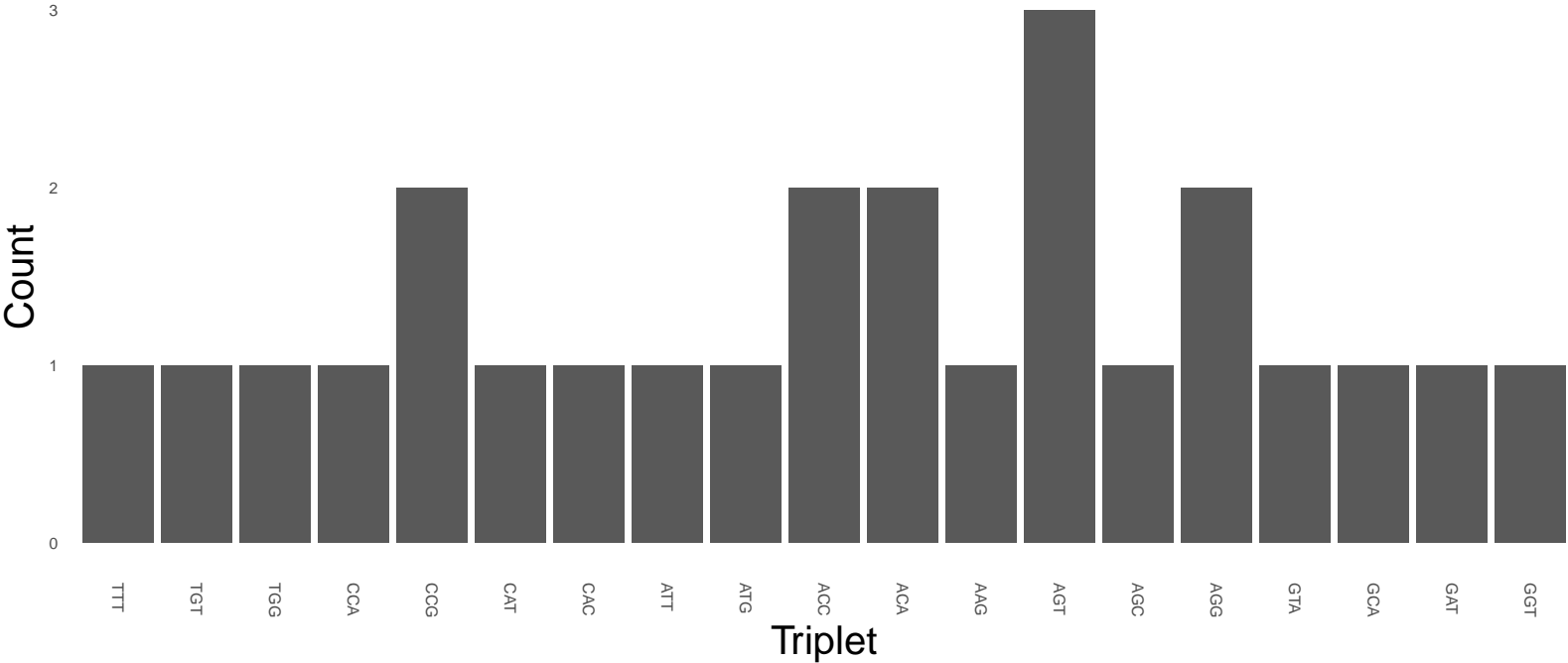
TRBV6–8*ap01_A293G– Final 3 nucleotides as a triplet



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

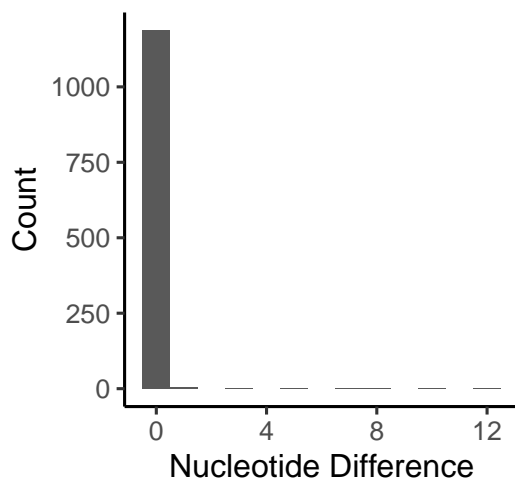


TRBV7-1*ap01_T296C_C314T- Final 3 nucleotides as a triplet



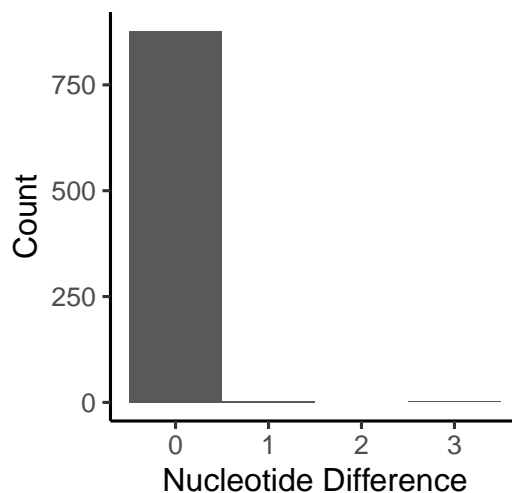
TRBV10-1*ap01

1200 sequences assigned
1187 (98.9%) exact matches, in which:
1180 unique CDR3
14 unique J



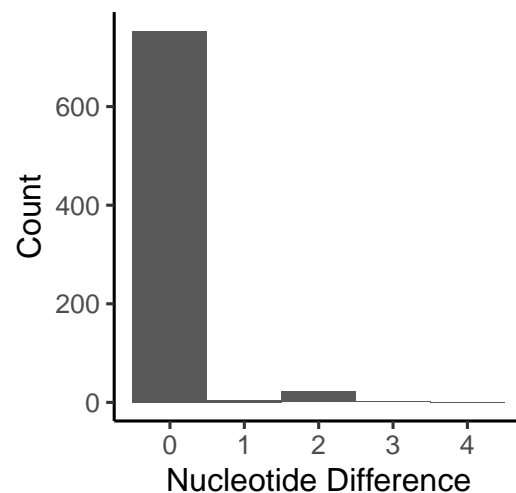
TRBV10-2*ap01

884 sequences assigned
878 (99.3%) exact matches, in which:
874 unique CDR3
14 unique J



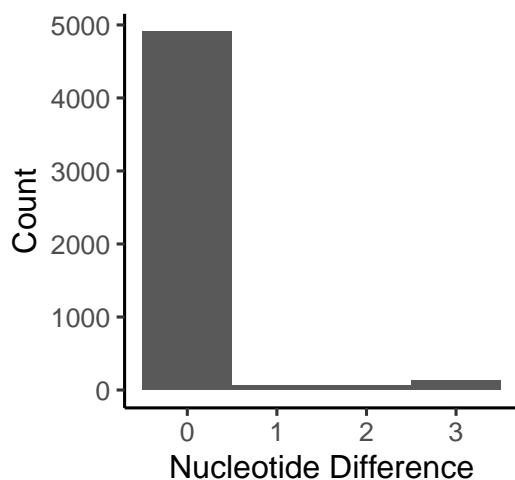
TRBV13*ap01

784 sequences assigned
754 (96.2%) exact matches, in which:
746 unique CDR3
14 unique J



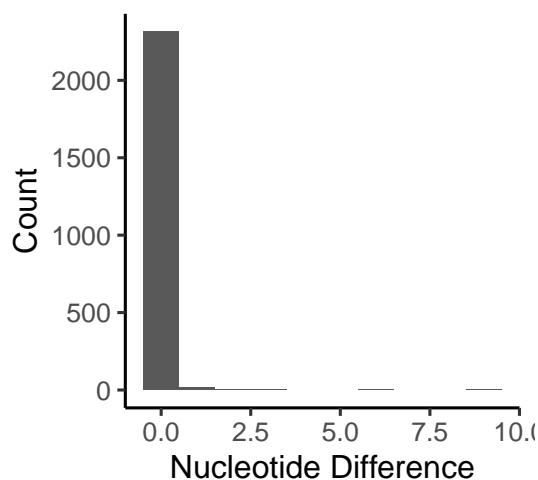
TRBV20-1*ap01

5145 sequences assigned
4907 (95.4%) exact matches, in which:
4861 unique CDR3
14 unique J



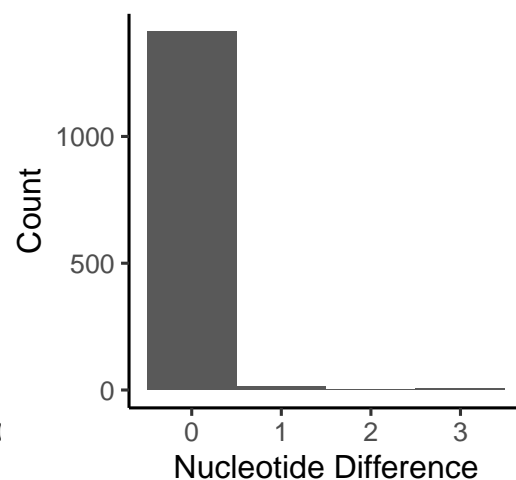
TRBV10-3*ap01

2341 sequences assigned
2314 (98.8%) exact matches, in which:
2303 unique CDR3
14 unique J



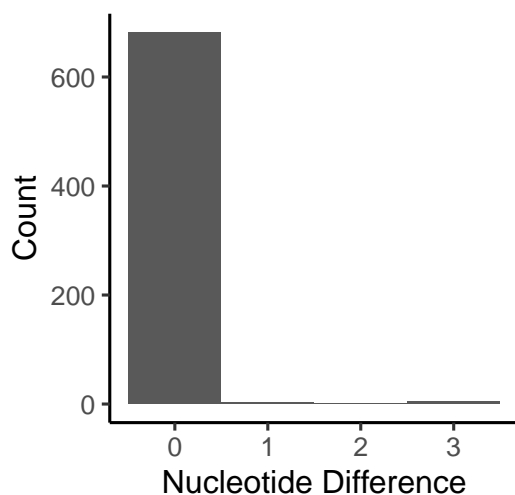
TRBV14*ap01

1433 sequences assigned
1413 (98.6%) exact matches, in which:
1404 unique CDR3
14 unique J



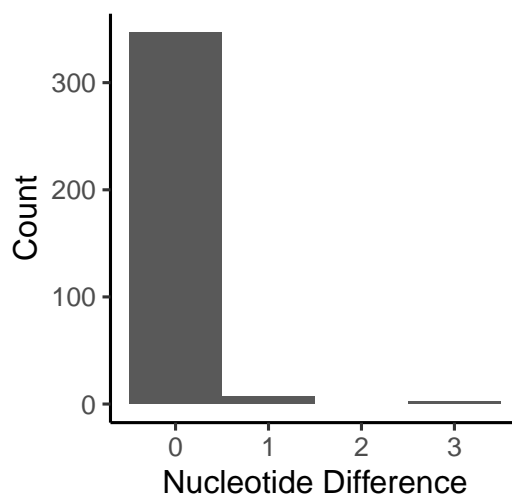
TRBV20-1*ap02

689 sequences assigned
682 (99%) exact matches, in which:
674 unique CDR3
14 unique J



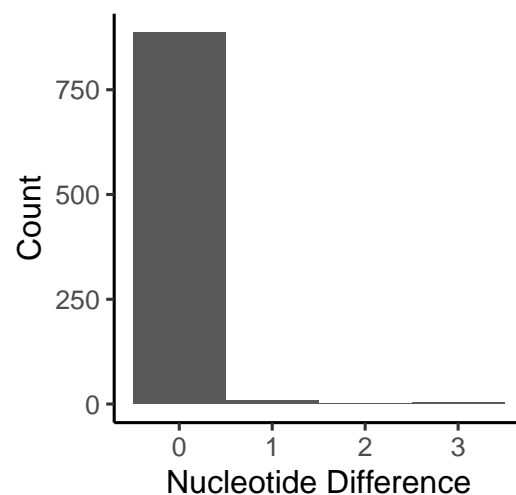
TRBV1*ap01

356 sequences assigned
347 (97.5%) exact matches, in which:
338 unique CDR3
14 unique J



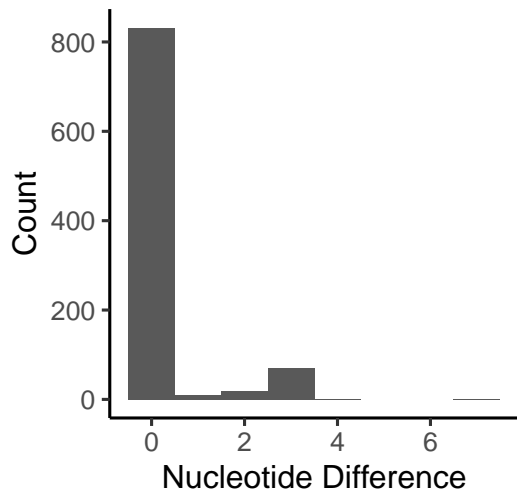
TRBV15*ap01

900 sequences assigned
887 (98.6%) exact matches, in which:
881 unique CDR3
13 unique J



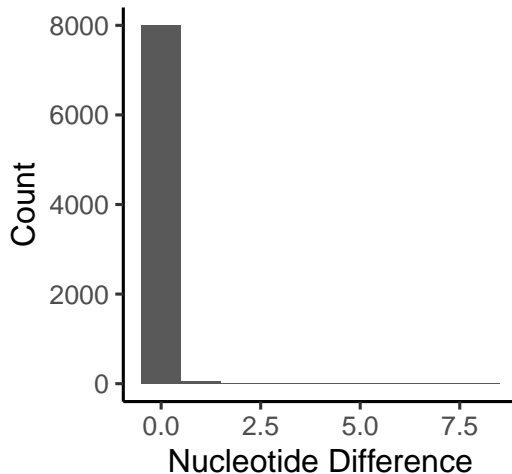
TRBV15*ap02

932 sequences assigned
832 (89.3%) exact matches, in which:
822 unique CDR3
13 unique J



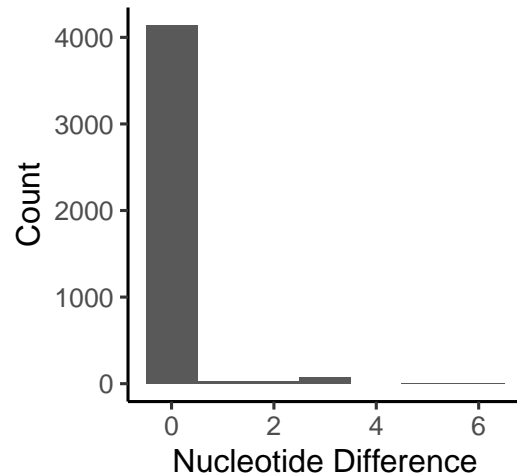
TRBV19*ap01

8096 sequences assigned
7998 (98.8%) exact matches, in which:
7956 unique CDR3
14 unique J



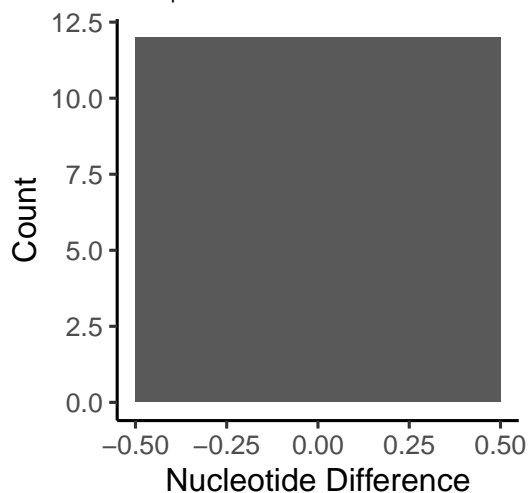
TRBV27*ap01

4284 sequences assigned
4138 (96.6%) exact matches, in which:
4107 unique CDR3
14 unique J



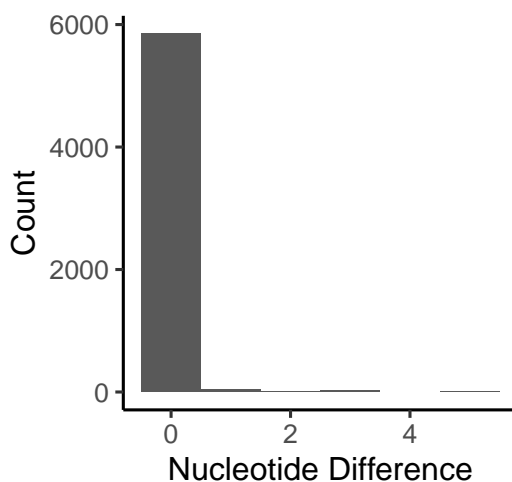
TRBV17*ap01

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



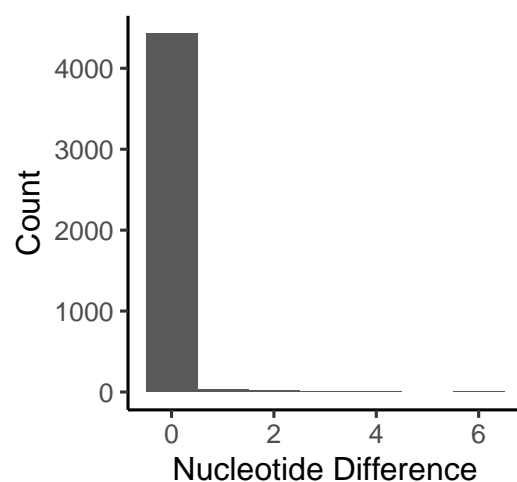
TRBV2*ap01

5940 sequences assigned
5850 (98.5%) exact matches, in which:
5705 unique CDR3
14 unique J



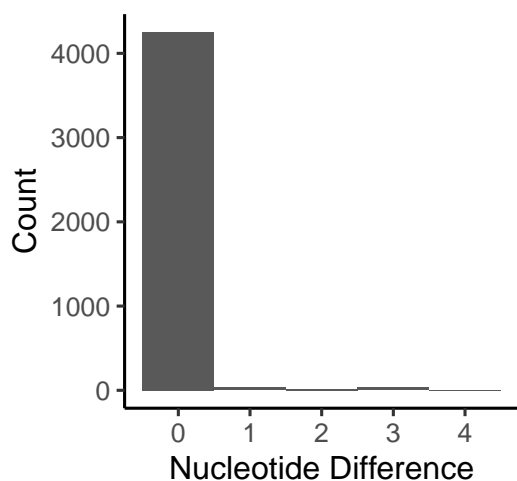
TRBV28*ap01

4490 sequences assigned
4427 (98.6%) exact matches, in which:
4398 unique CDR3
14 unique J



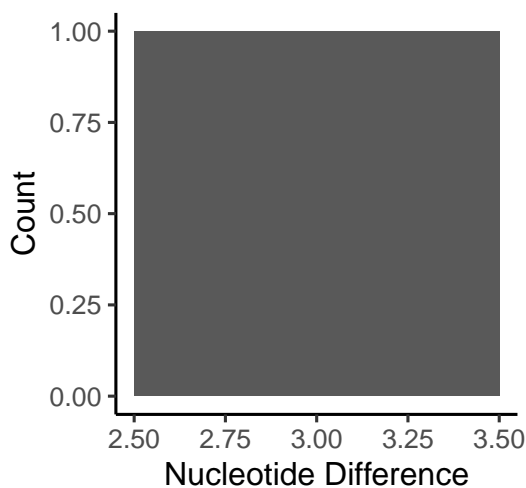
TRBV18*ap01

4338 sequences assigned
4253 (98%) exact matches, in which:
4208 unique CDR3
14 unique J



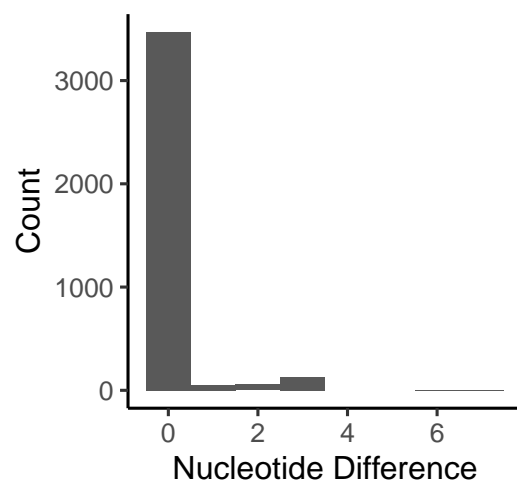
TRBV26*ap01

1 sequences assigned
No exact matches.



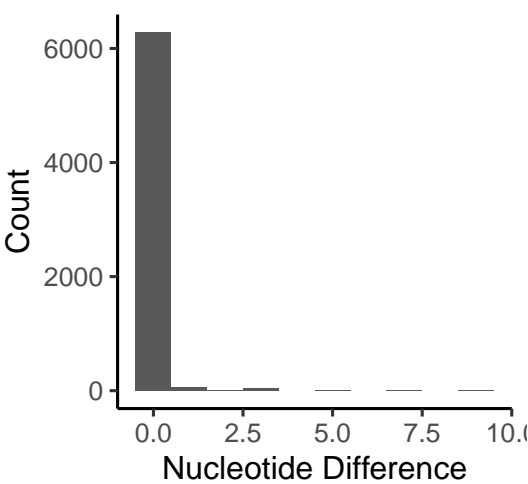
TRBV30*ap02

3706 sequences assigned
3470 (93.6%) exact matches, in which:
3433 unique CDR3
14 unique J



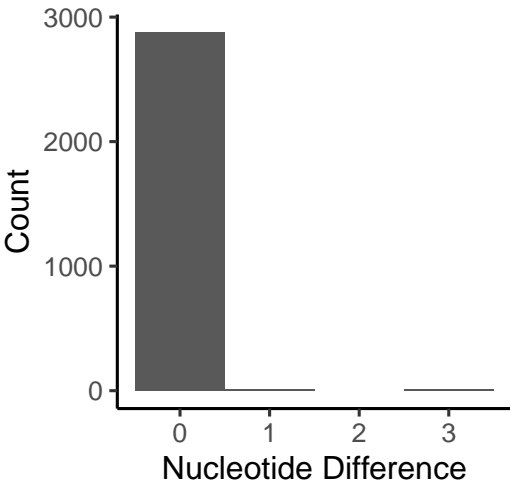
TRBV9*ap01

6417 sequences assigned
6282 (97.9%) exact matches, in which:
6232 unique CDR3
14 unique J



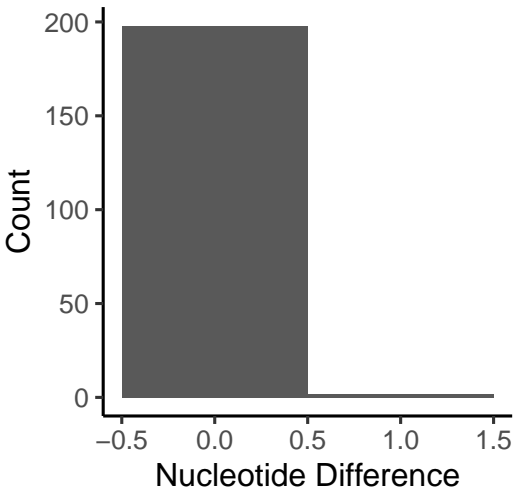
TRBV11-2*ap01

2901 sequences assigned
2877 (99.2%) exact matches, in which:
2860 unique CDR3
14 unique J



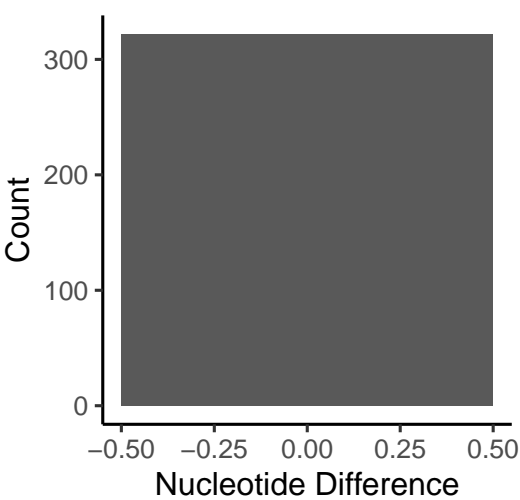
TRBV12-2*ap01

200 sequences assigned
198 (99%) exact matches, in which:
198 unique CDR3
14 unique J



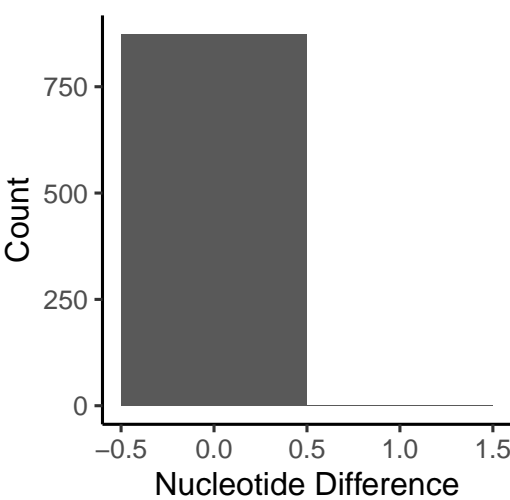
TRBV11-1*ap01

322 sequences assigned
322 (100%) exact matches, in which:
321 unique CDR3
14 unique J



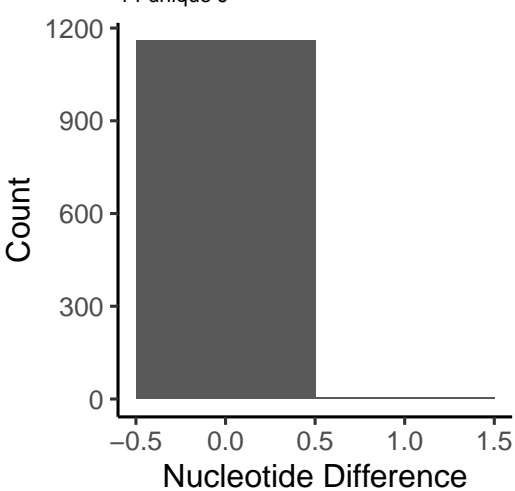
TRBV11-3*ap01

876 sequences assigned
874 (99.8%) exact matches, in which:
871 unique CDR3
14 unique J



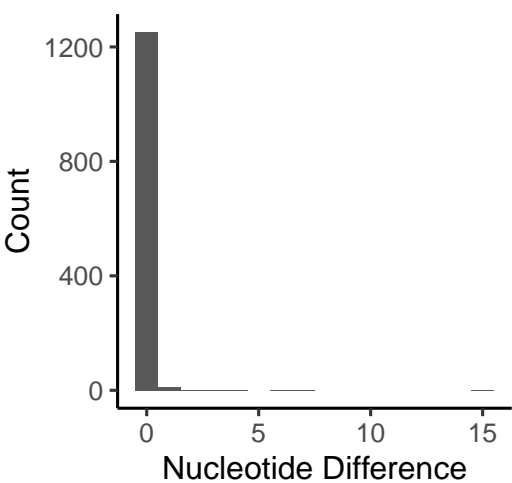
TRBV12-5*ap01

1163 sequences assigned
1159 (99.7%) exact matches, in which:
1152 unique CDR3
14 unique J



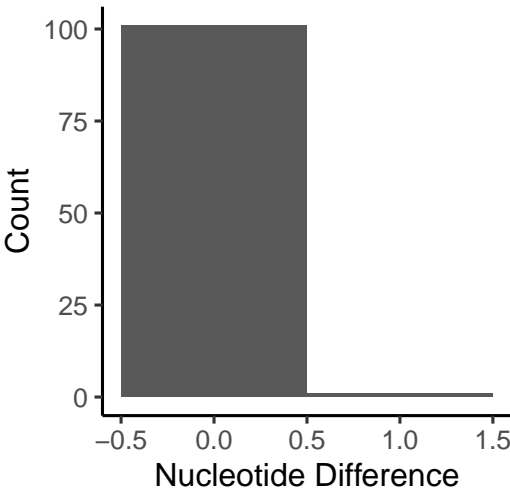
TRBV21-1*ap01_T307C

1273 sequences assigned
1252 (98.4%) exact matches, in which:
1248 unique CDR3
14 unique J



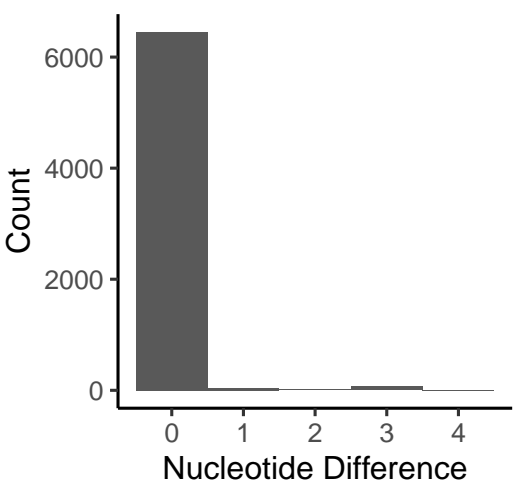
TRBV12-1*ap01

102 sequences assigned
101 (99%) exact matches, in which:
100 unique CDR3
13 unique J



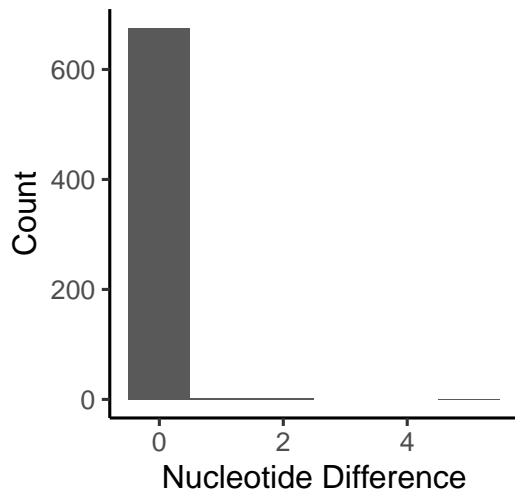
TRBV12-34*ap01

6578 sequences assigned
6451 (98.1%) exact matches, in which:
6406 unique CDR3
14 unique J



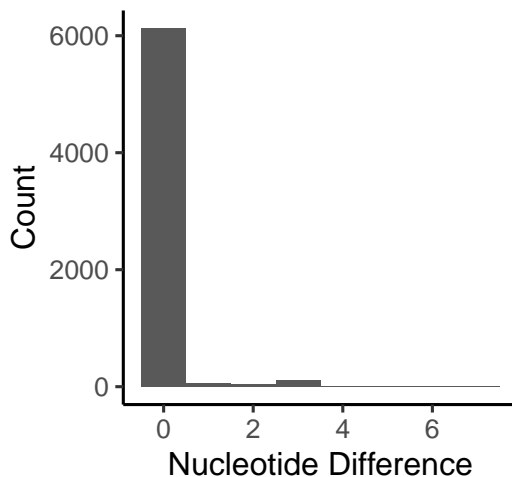
TRBV23-1*ap01

681 sequences assigned
676 (99.3%) exact matches, in which:
673 unique CDR3
14 unique J



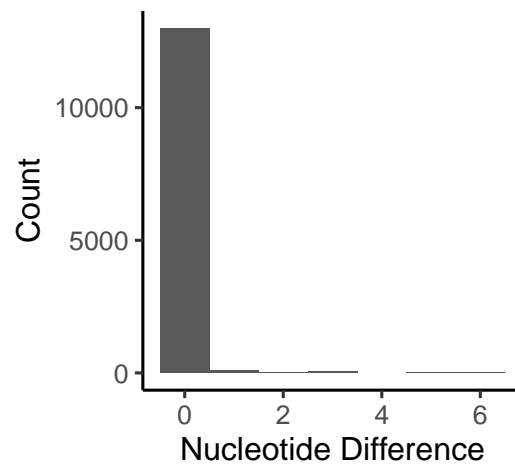
TRBV24-1*ap01

6348 sequences assigned
6125 (96.5%) exact matches, in which:
6060 unique CDR3
14 unique J



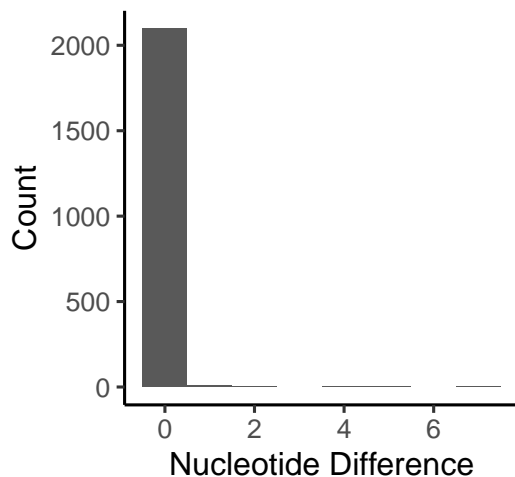
TRBV5-1*ap01

13167 sequences assigned
12997 (98.7%) exact matches, in which:
12863 unique CDR3
14 unique J



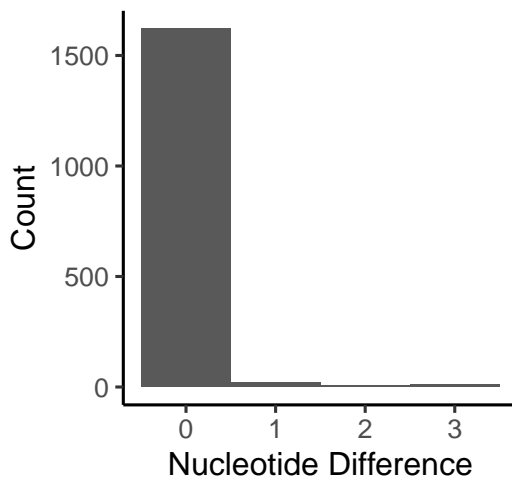
TRBV3-12*ap01

2111 sequences assigned
2097 (99.3%) exact matches, in which:
2088 unique CDR3
14 unique J



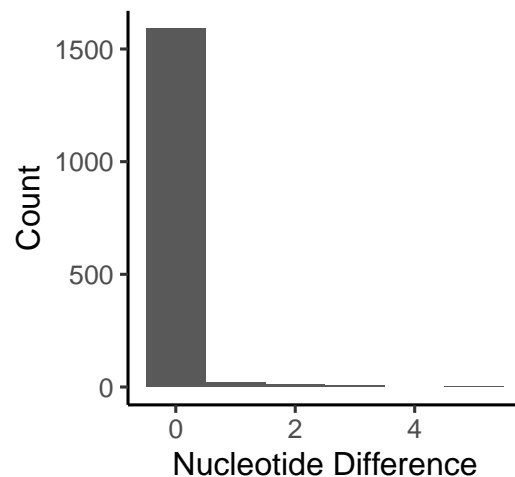
TRBV4-2*ap01

1661 sequences assigned
1621 (97.6%) exact matches, in which:
1603 unique CDR3
14 unique J



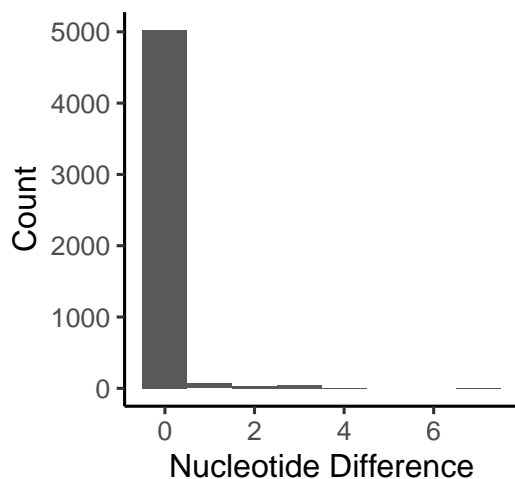
TRBV25-1*ap01

1630 sequences assigned
1590 (97.5%) exact matches, in which:
1565 unique CDR3
14 unique J



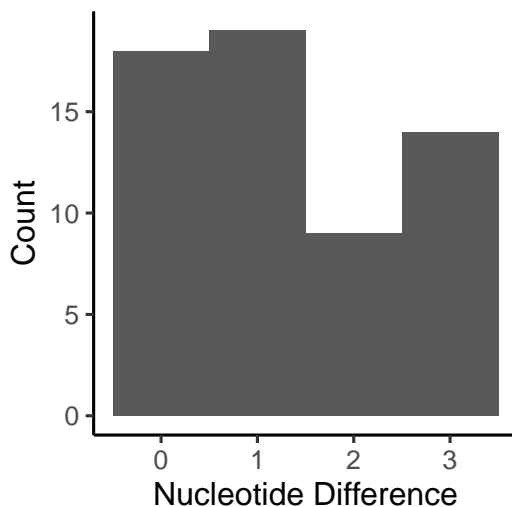
TRBV4-1*ap01

5178 sequences assigned
5025 (97%) exact matches, in which:
4963 unique CDR3
14 unique J



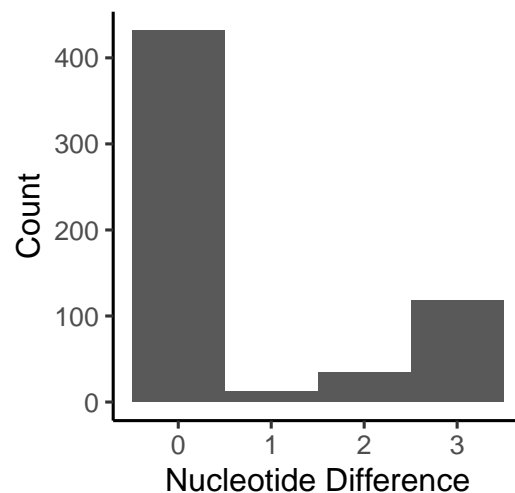
TRBV4-3*ap01

60 sequences assigned
18 (30%) exact matches, in which:
14 unique CDR3
5 unique J



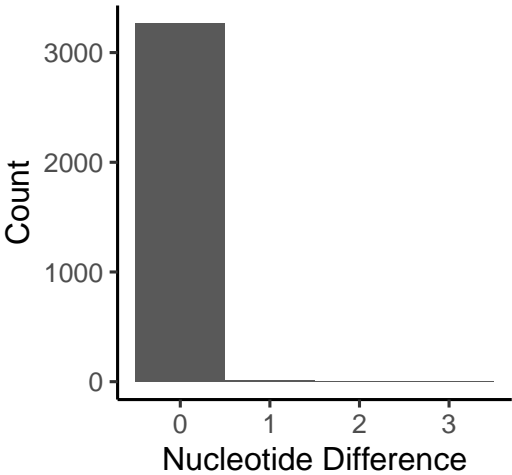
TRBV5-3*ap01

596 sequences assigned
432 (72.5%) exact matches, in which:
424 unique CDR3
14 unique J



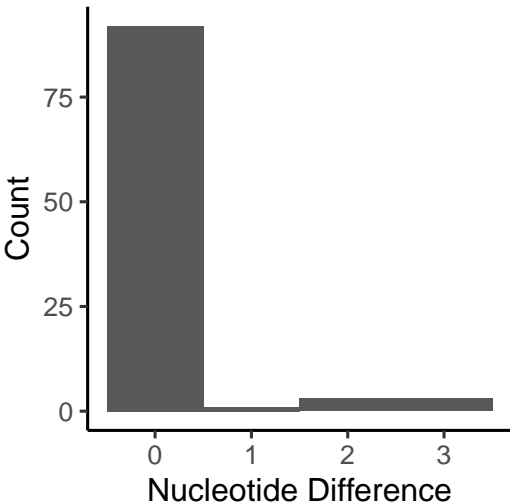
TRBV5-4*ap01

3289 sequences assigned
3266 (99.3%) exact matches, in which:
3246 unique CDR3
14 unique J



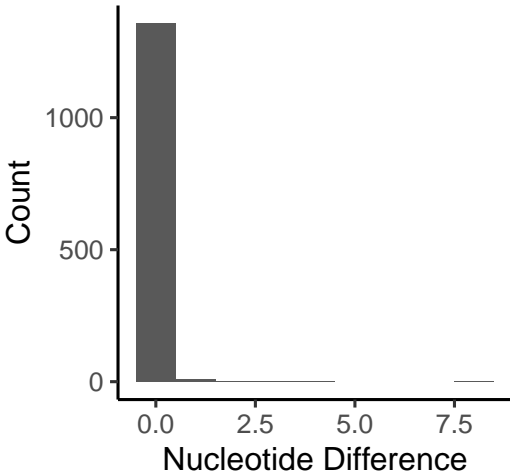
TRBV5-7*ap01

99 sequences assigned
92 (92.9%) exact matches, in which:
89 unique CDR3
14 unique J



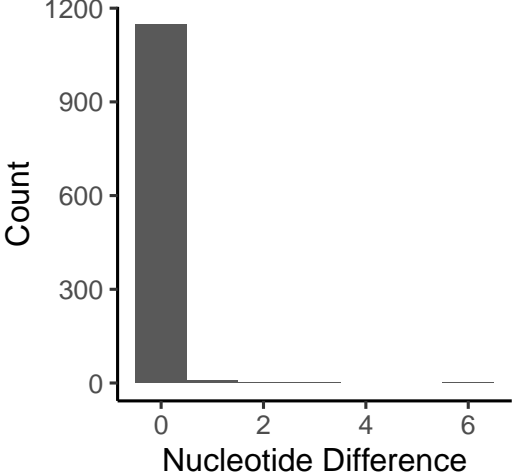
TRBV6-4*ap01

1373 sequences assigned
1357 (98.8%) exact matches, in which:
1351 unique CDR3
14 unique J



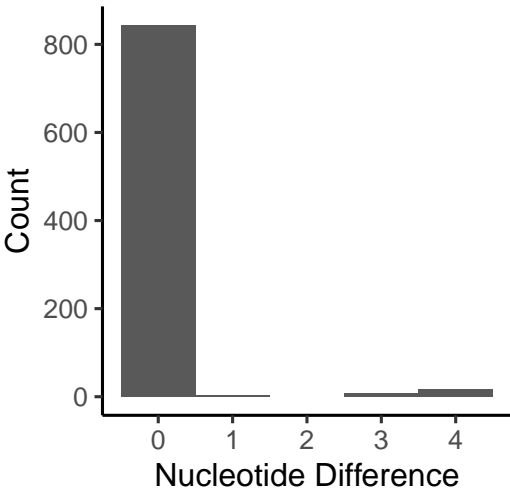
TRBV5-5*ap01

1159 sequences assigned
1147 (99%) exact matches, in which:
1141 unique CDR3
14 unique J



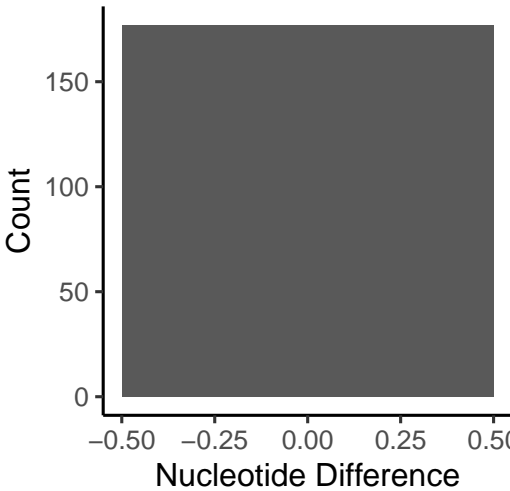
TRBV5-8*ap01

872 sequences assigned
844 (96.8%) exact matches, in which:
840 unique CDR3
14 unique J



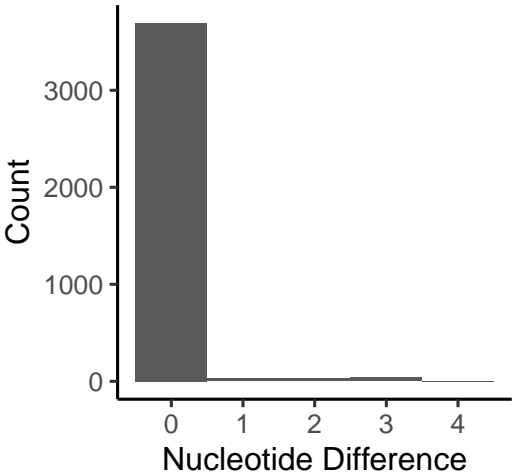
TRBV6-7*ap01

177 sequences assigned
177 (100%) exact matches, in which:
176 unique CDR3
14 unique J



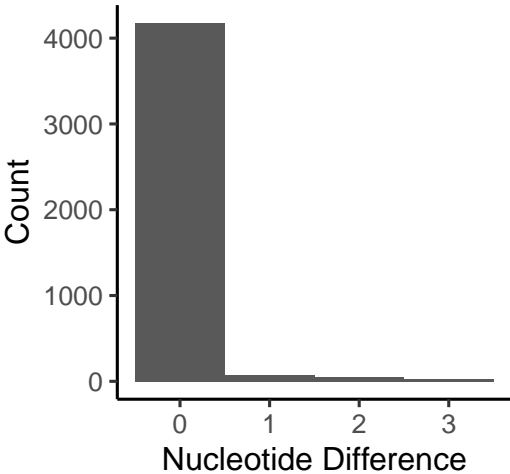
TRBV5-6*ap01

3797 sequences assigned
3693 (97.3%) exact matches, in which:
3647 unique CDR3
14 unique J



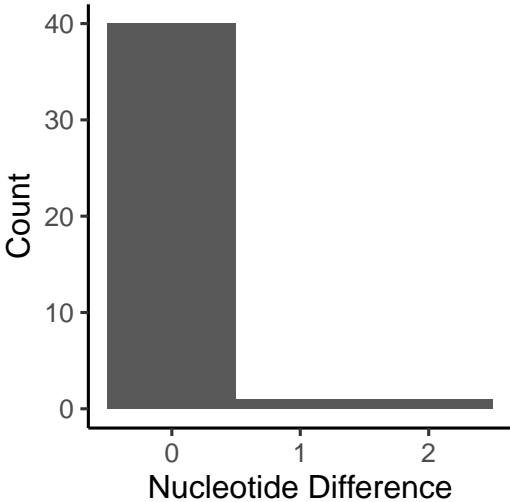
TRBV6-1*ap01

4327 sequences assigned
4176 (96.5%) exact matches, in which:
4123 unique CDR3
14 unique J



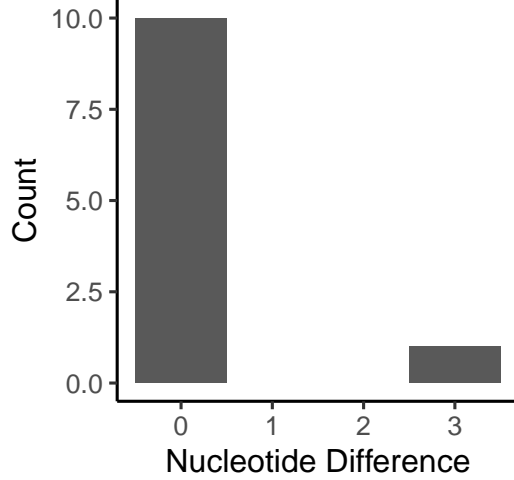
TRBV6-8*ap01

42 sequences assigned
40 (95.2%) exact matches, in which:
39 unique CDR3
12 unique J



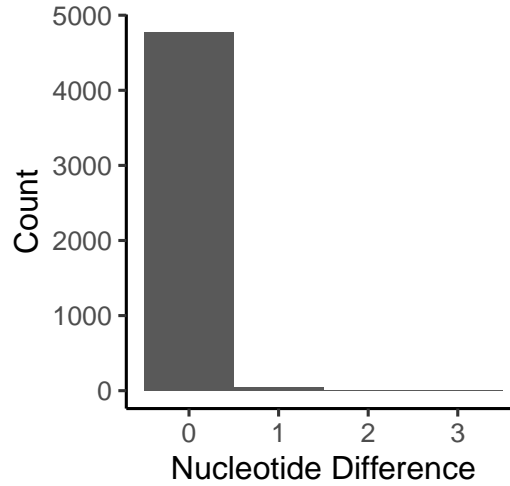
TRBV6-8*ap01_A293G

11 sequences assigned
10 (90.9%) exact matches, in which:
10 unique CDR3
7 unique J



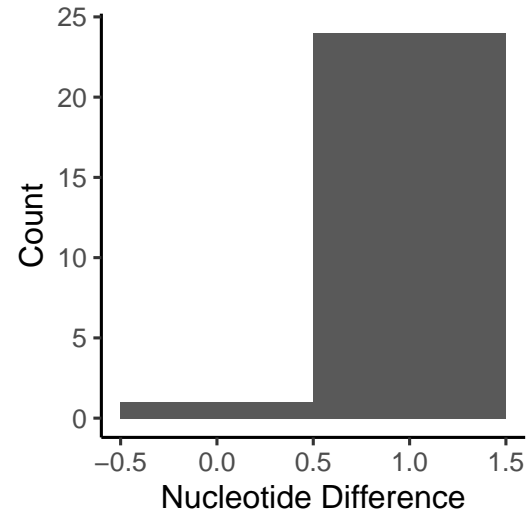
TRBV6-56*ap01

4829 sequences assigned
4771 (98.8%) exact matches, in which:
4693 unique CDR3
14 unique J



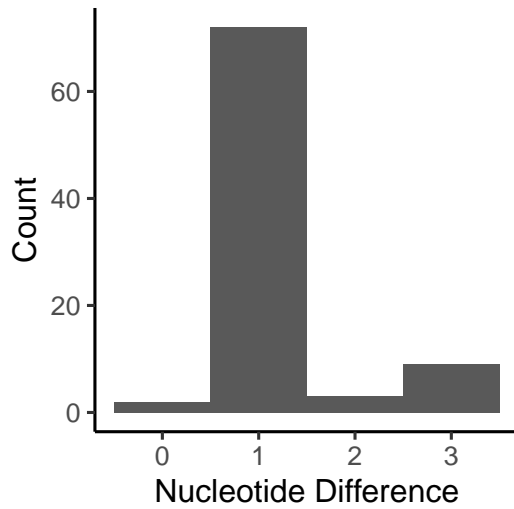
TRBV7-1*ap01_T296C_C

25 sequences assigned
1 (4%) exact matches, in which:
1 unique CDR3
1 unique J



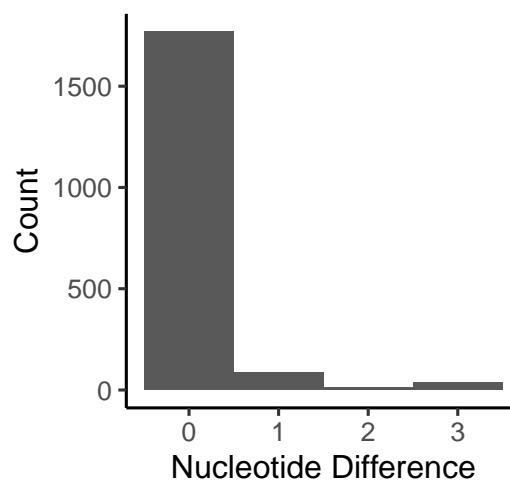
TRBV6-9*ap01

86 sequences assigned
2 (2.3%) exact matches, in which:
2 unique CDR3
2 unique J



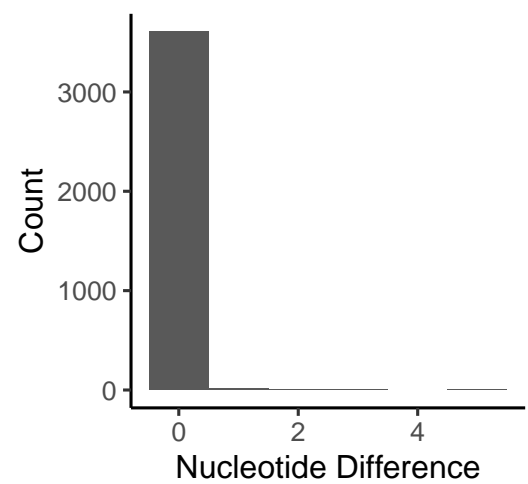
TRBV6-56*ap02

1902 sequences assigned
1769 (93%) exact matches, in which:
1744 unique CDR3
14 unique J



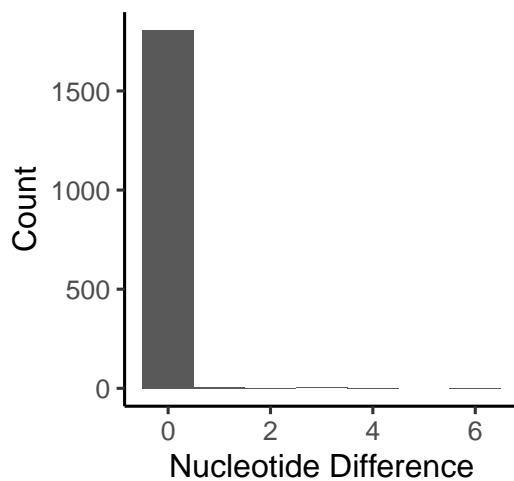
TRBV7-2*ap01

3627 sequences assigned
3606 (99.4%) exact matches, in which:
3588 unique CDR3
14 unique J



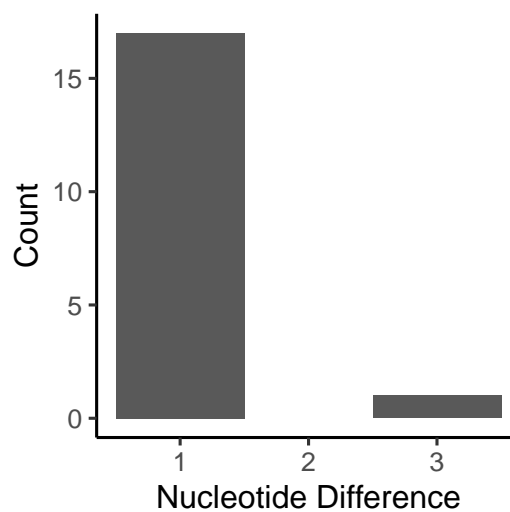
TRBV6-23*ap01

1822 sequences assigned
1807 (99.2%) exact matches, in which:
1779 unique CDR3
14 unique J



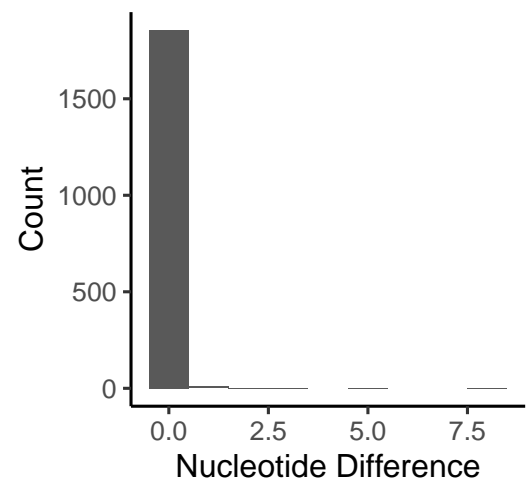
TRBV7-1*ap01_T296C

18 sequences assigned
No exact matches.



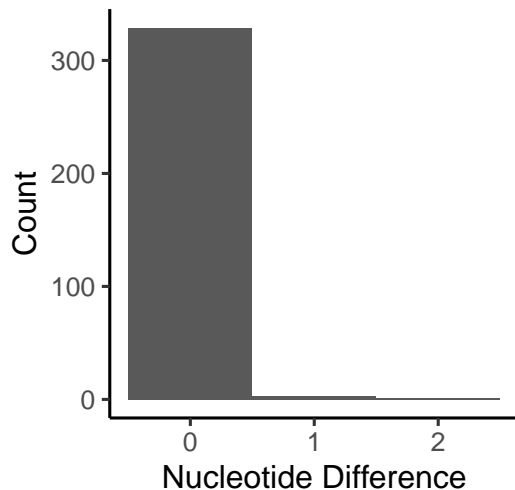
TRBV7-3*ap01

1870 sequences assigned
1856 (99.3%) exact matches, in which:
1848 unique CDR3
14 unique J



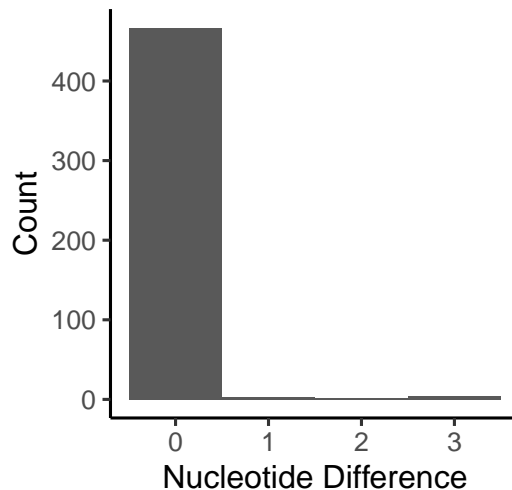
TRBV7-3*ap02

333 sequences assigned
329 (98.8%) exact matches, in which:
328 unique CDR3
12 unique J



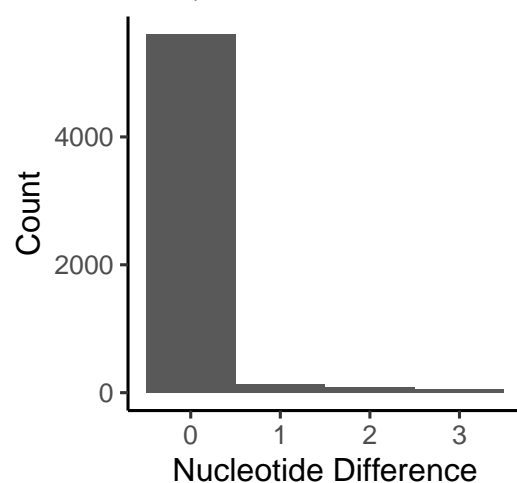
TRBV7-7*ap01

476 sequences assigned
467 (98.1%) exact matches, in which:
463 unique CDR3
14 unique J



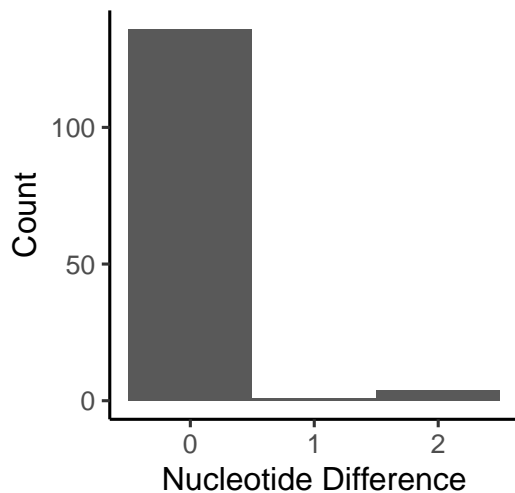
TRBV7-9*ap01

5878 sequences assigned
5603 (95.3%) exact matches, in which:
5514 unique CDR3
14 unique J



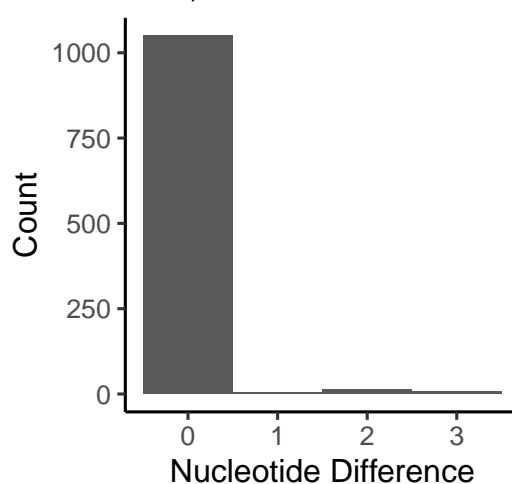
TRBV7-4*ap01

141 sequences assigned
136 (96.5%) exact matches, in which:
134 unique CDR3
14 unique J



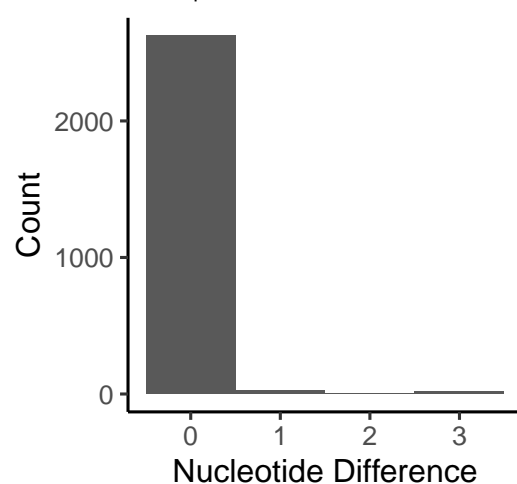
TRBV7-8*ap01

1071 sequences assigned
1050 (98%) exact matches, in which:
1005 unique CDR3
14 unique J



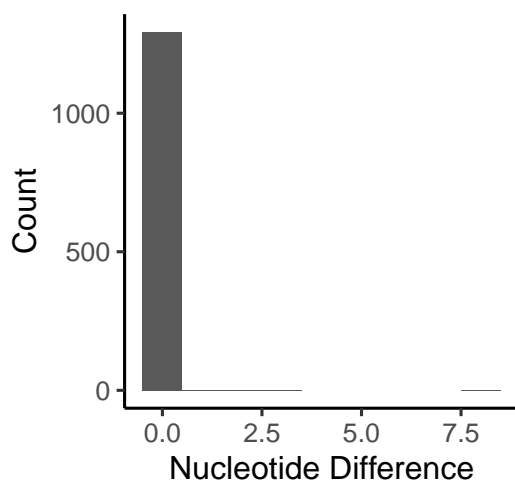
TRBV29-1*ap01

2670 sequences assigned
2624 (98.3%) exact matches, in which:
2579 unique CDR3
14 unique J



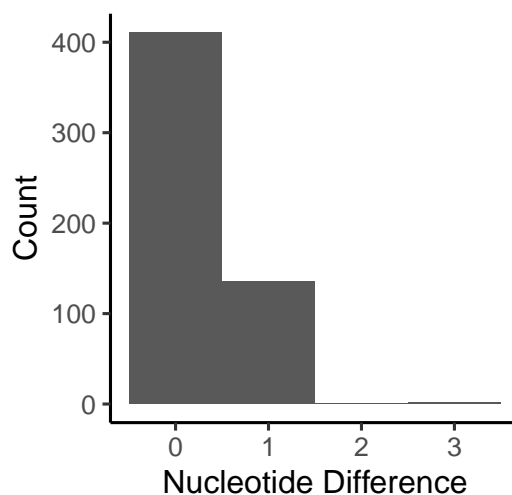
TRBV7-6*ap01

1301 sequences assigned
1293 (99.4%) exact matches, in which:
1282 unique CDR3
14 unique J



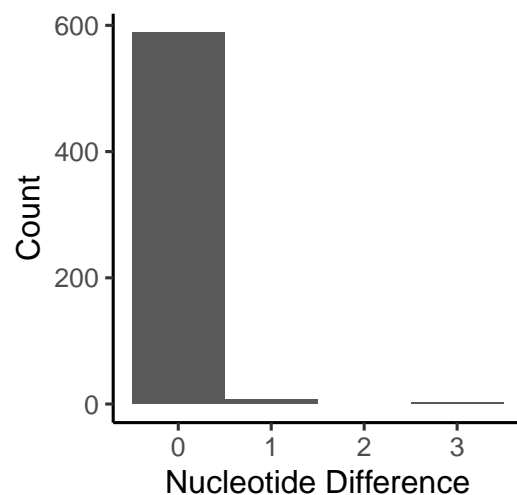
TRBV7-8*ap03

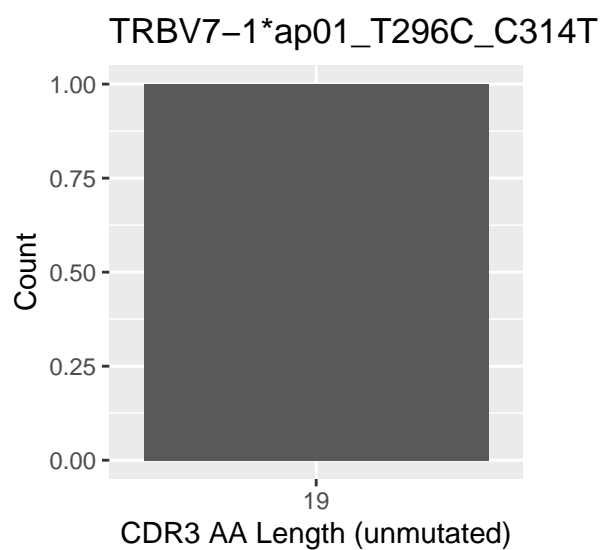
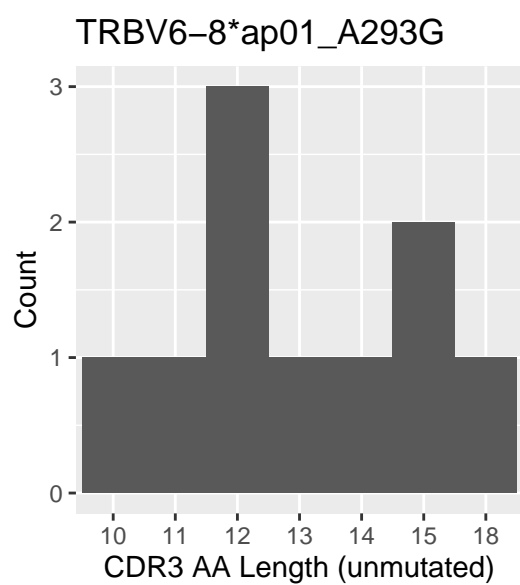
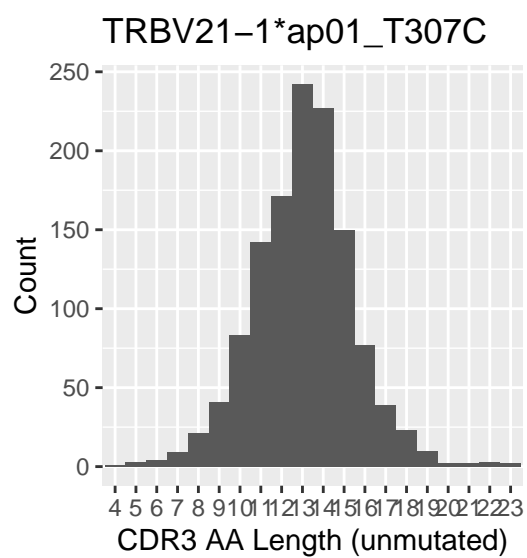
549 sequences assigned
411 (74.9%) exact matches, in which:
408 unique CDR3
14 unique J



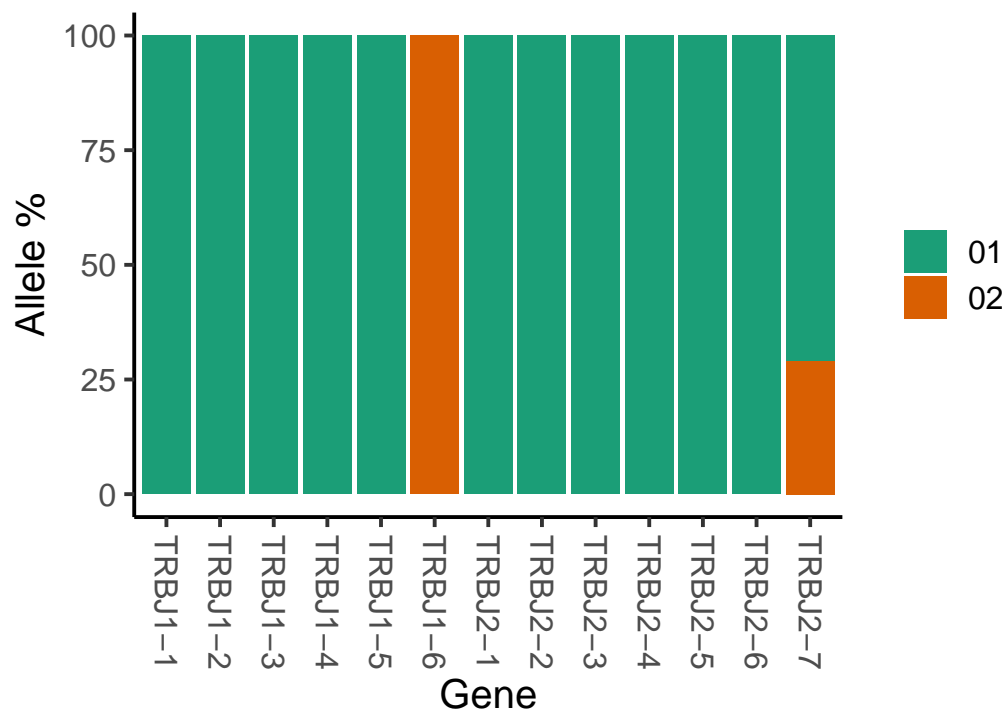
TRBV29-1*ap02

599 sequences assigned
589 (98.3%) exact matches, in which:
583 unique CDR3
14 unique J

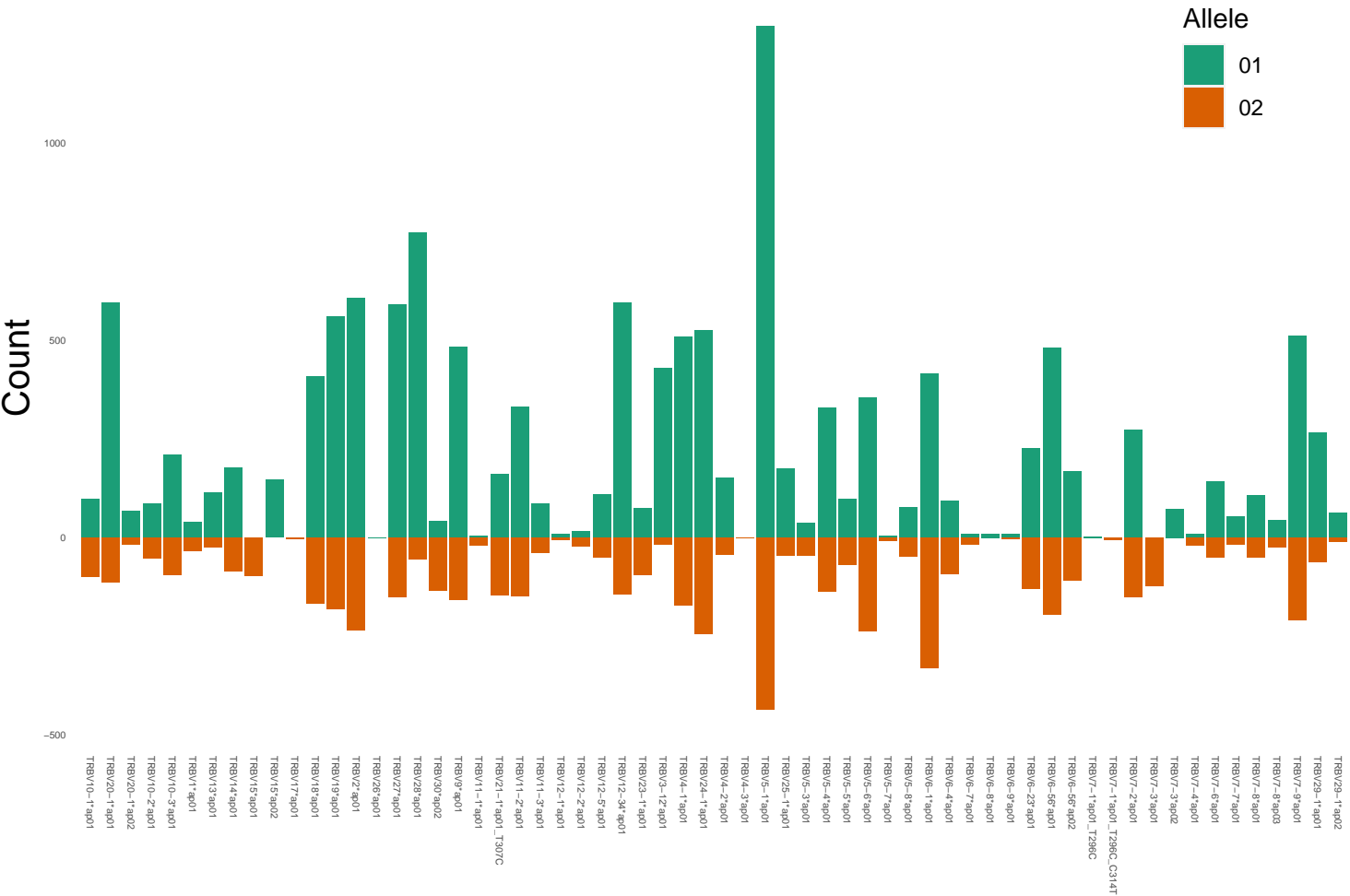




Allele Usage



Sequence Count by TRBJ2-7 allele usage



[illegible]