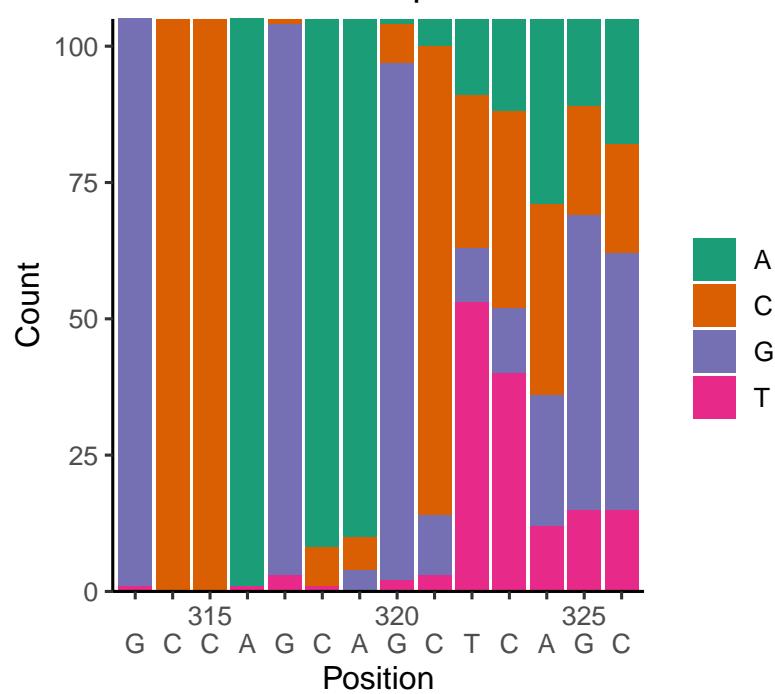
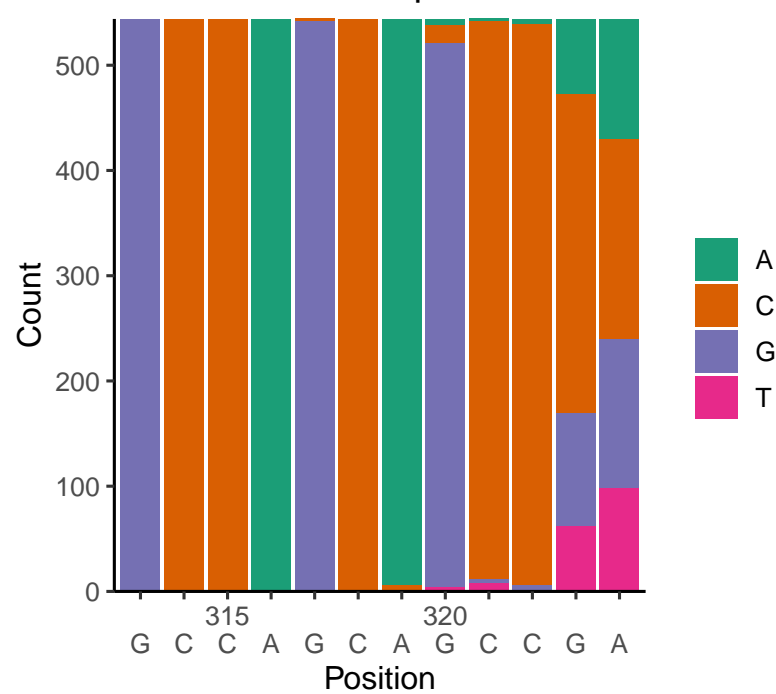


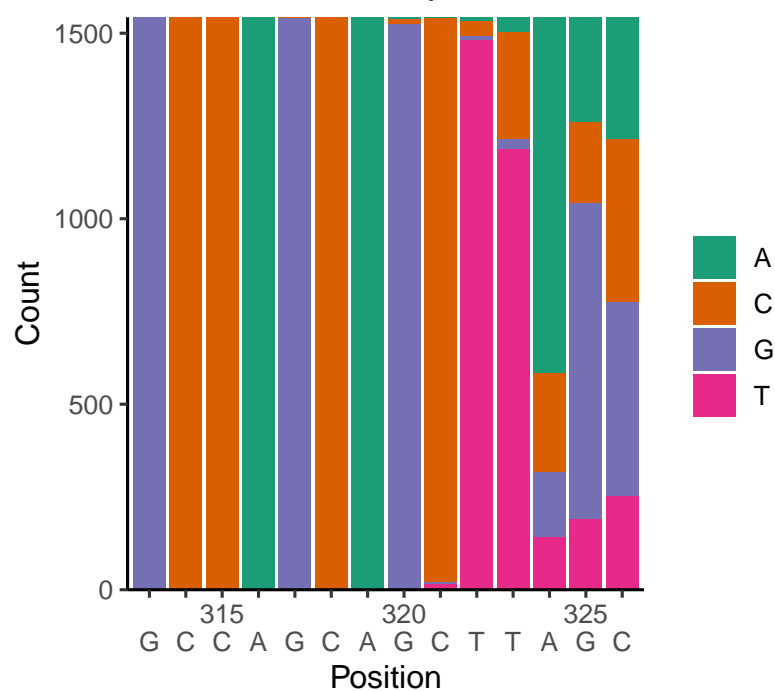
Gene TRBV7-1*ap01_G291C_T296C



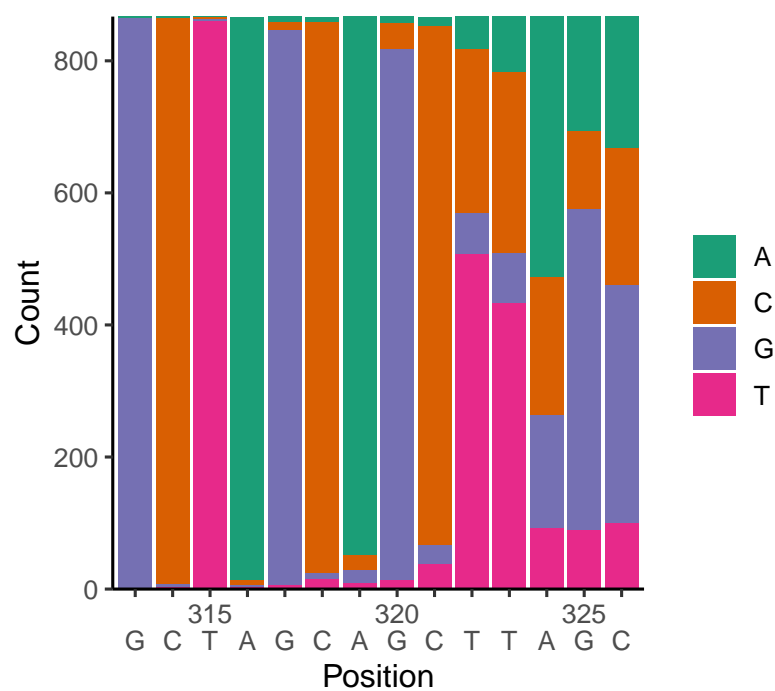
Gene TRBV7-8*ap03_C297A



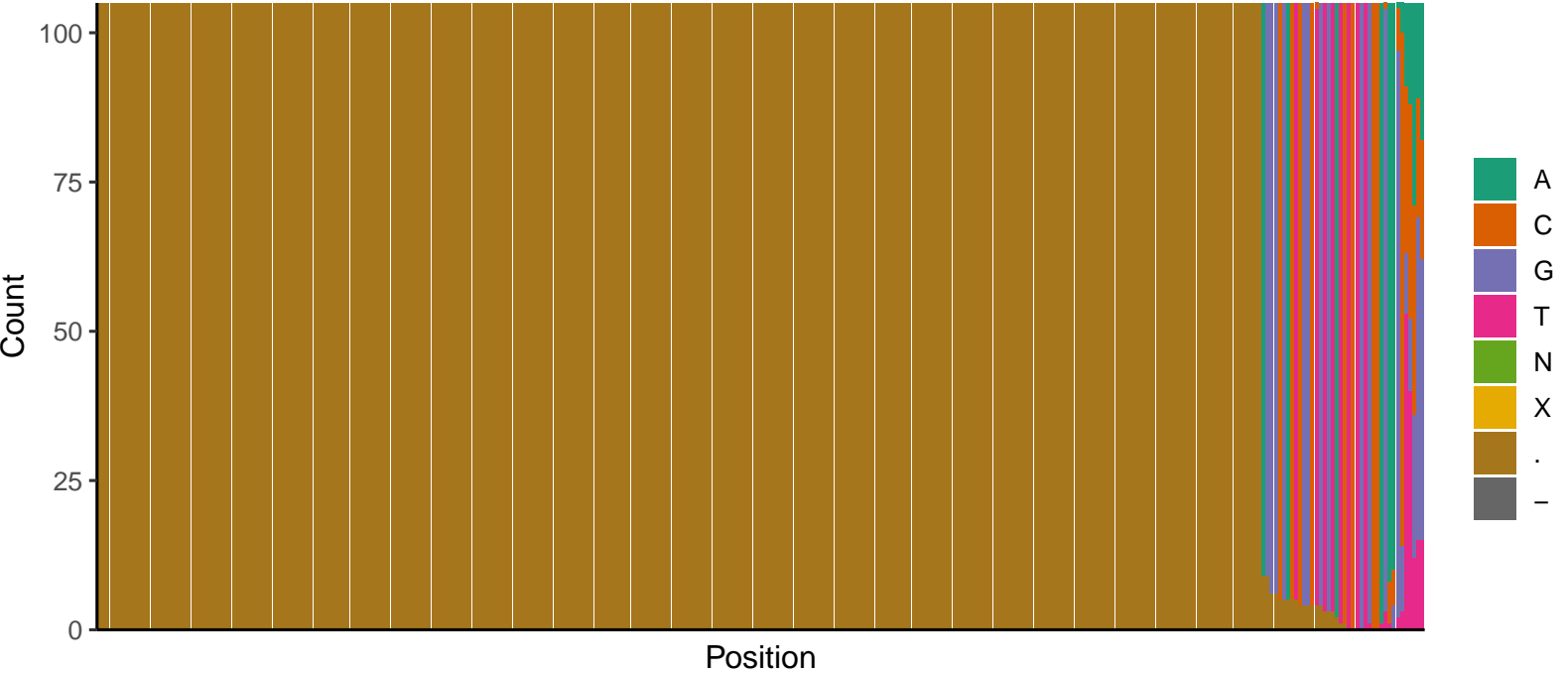
Gene TRBV7-2*ap01_G297A



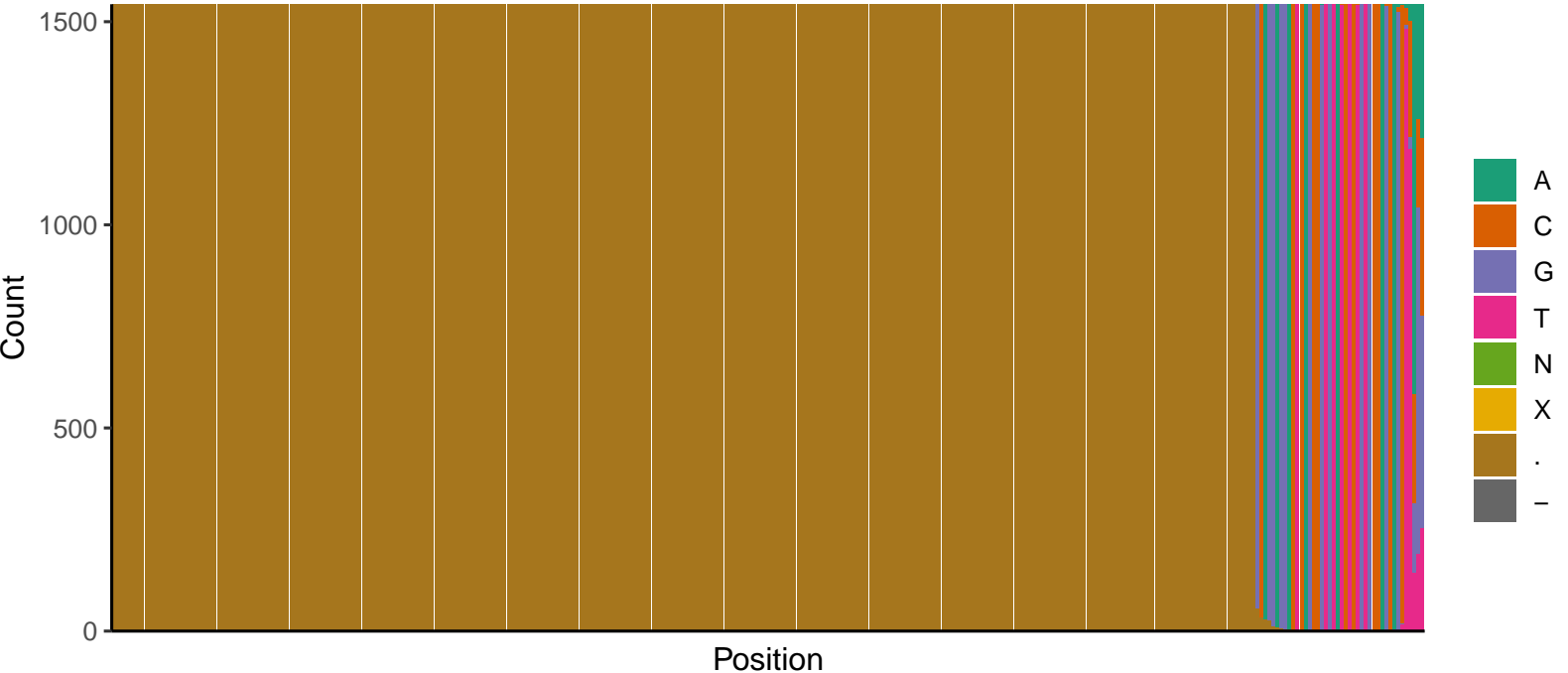
Gene TRBV7-7*ap01_C315T



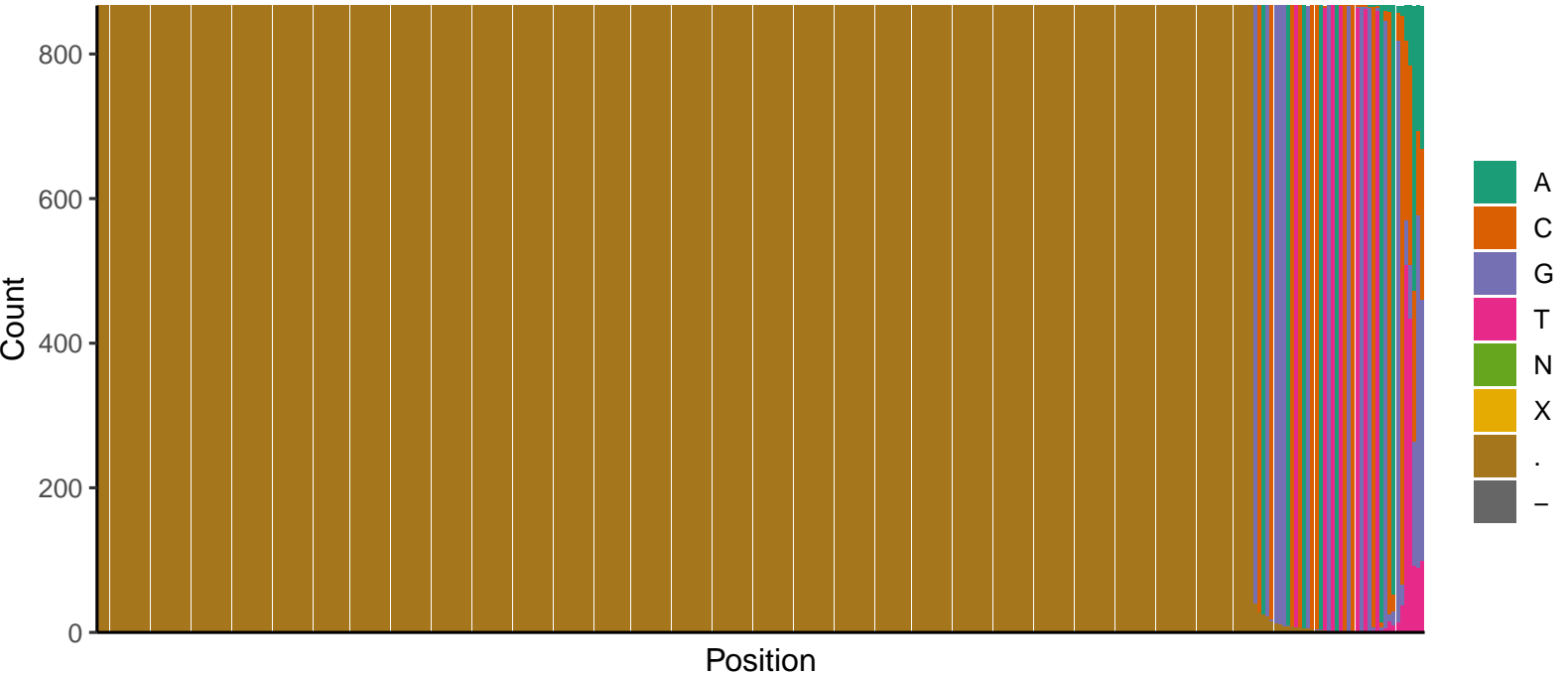
Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-2*ap01_G297A



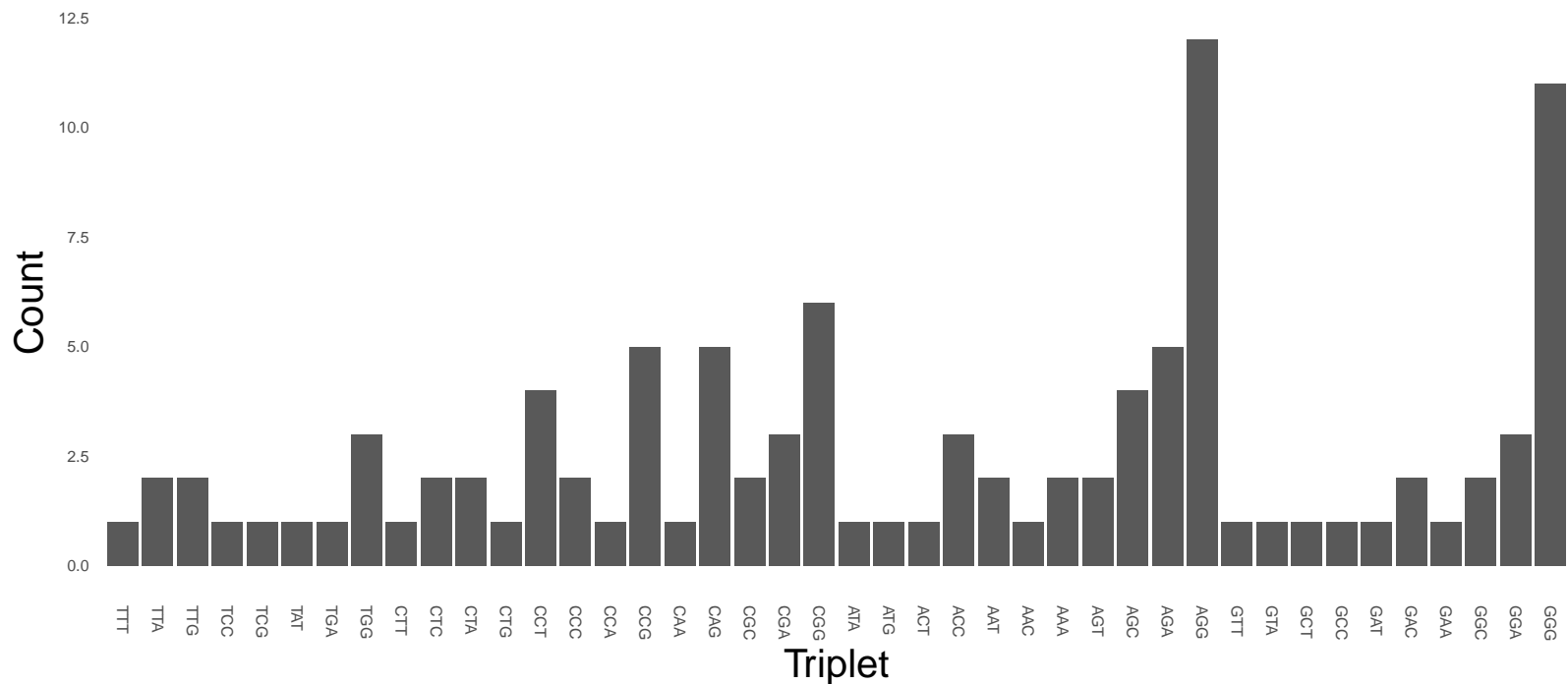
Gene TRBV7-7*ap01_C315T



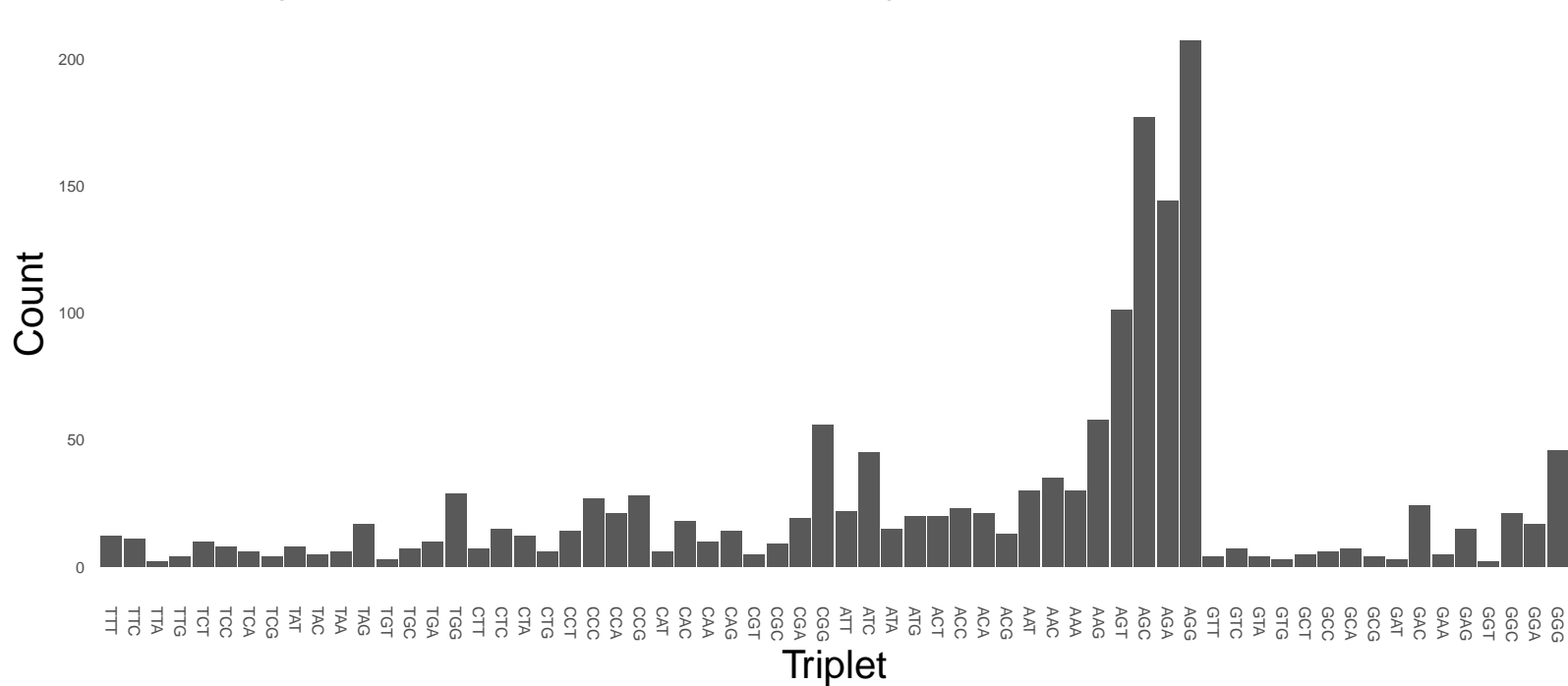
Gene TRBV7-8*ap03_C297A



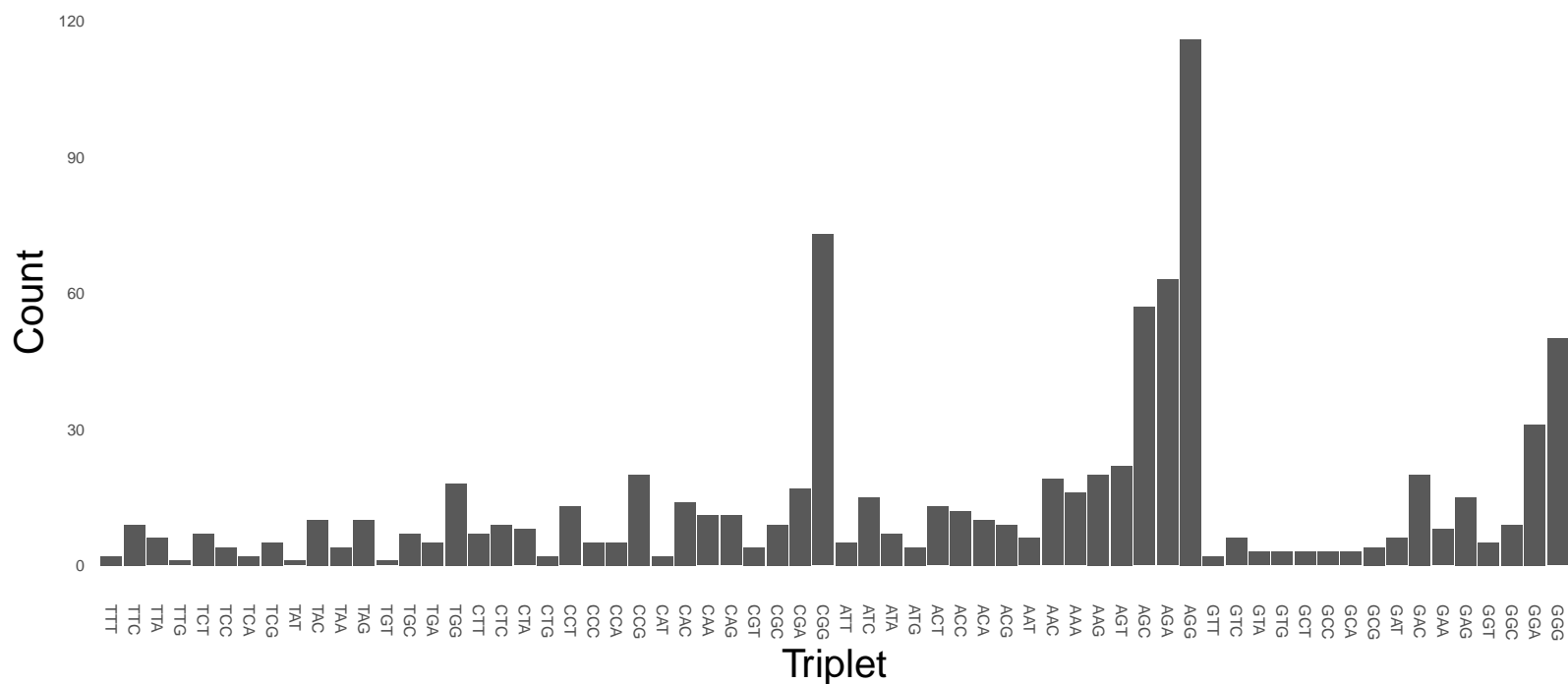
TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet



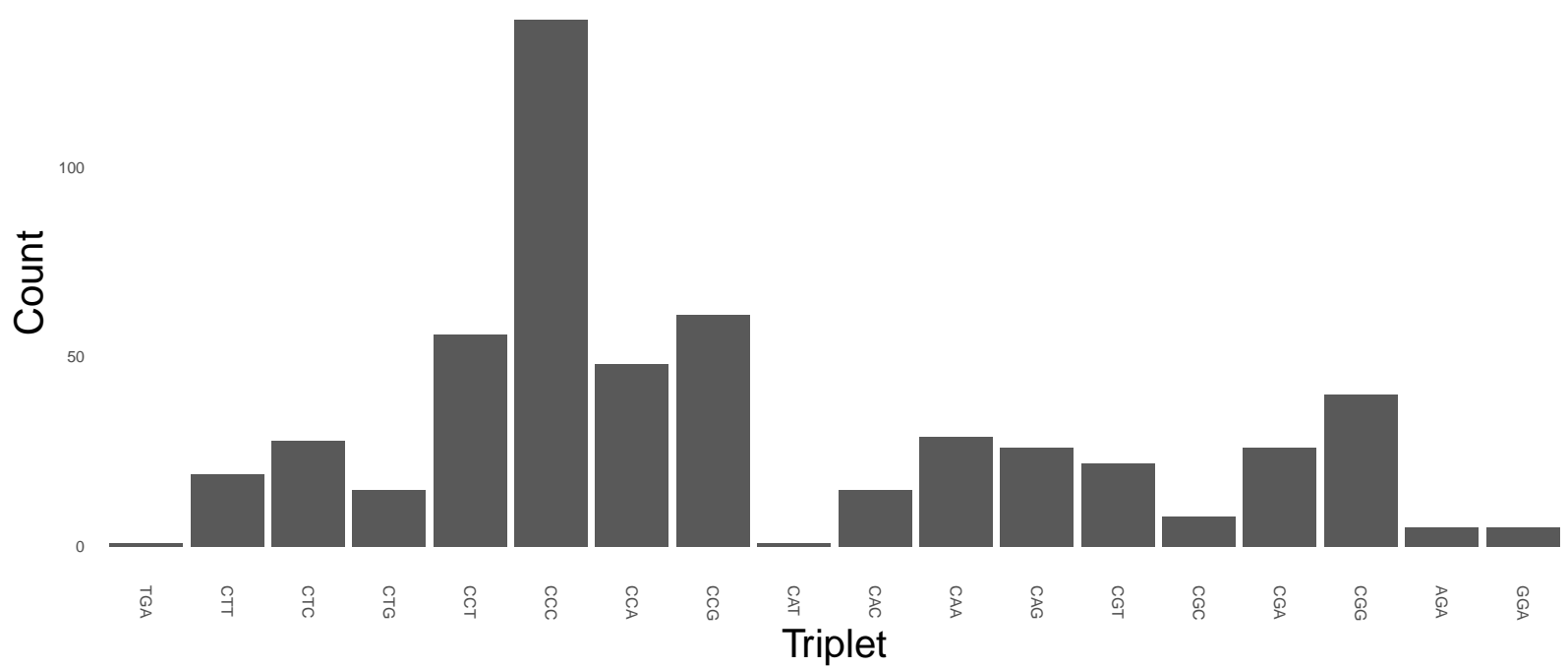
TRBV7-2*ap01_G297A- Final 3 nucleotides as a triplet



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

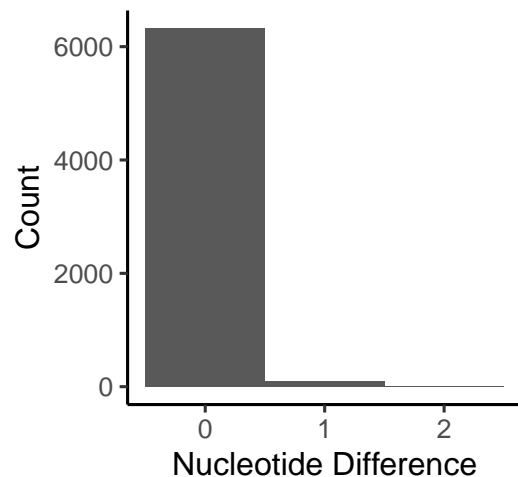


TRBV7-8*ap03_C297A- Final 3 nucleotides as a triplet



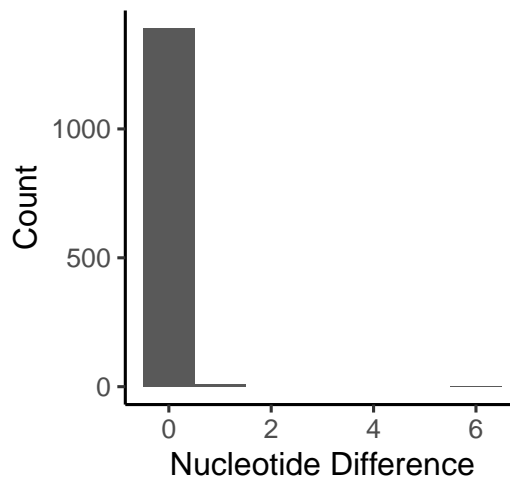
TRBV20-1*ap01

6413 sequences assigned
6322 (98.6%) exact matches, in which:
6211 unique CDR3
13 unique J



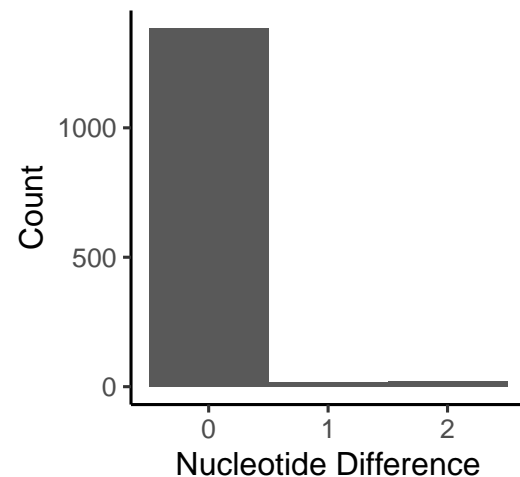
TRBV10-2*ap01

1401 sequences assigned
1390 (99.2%) exact matches, in which:
1347 unique CDR3
13 unique J



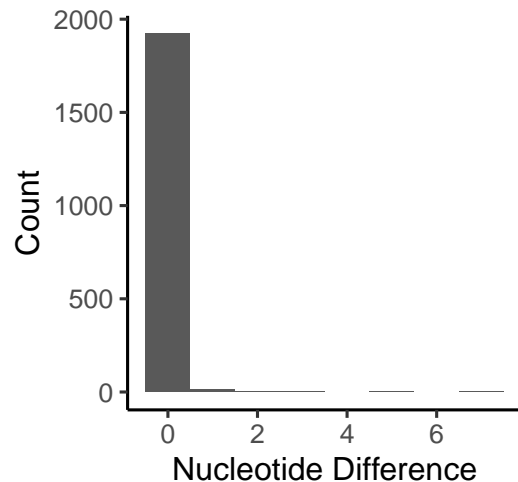
TRBV13*ap01

1422 sequences assigned
1384 (97.3%) exact matches, in which:
1356 unique CDR3
13 unique J



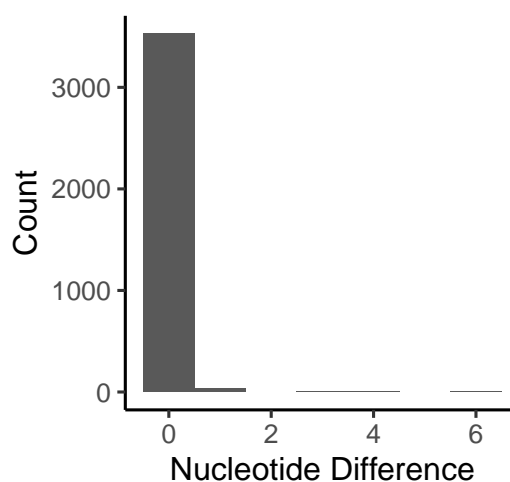
TRBV10-1*ap01

1941 sequences assigned
1922 (99%) exact matches, in which:
1885 unique CDR3
13 unique J



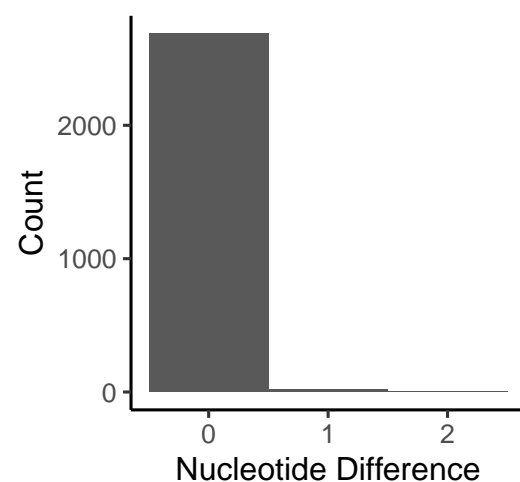
TRBV10-3*ap01

3570 sequences assigned
3528 (98.8%) exact matches, in which:
3452 unique CDR3
13 unique J



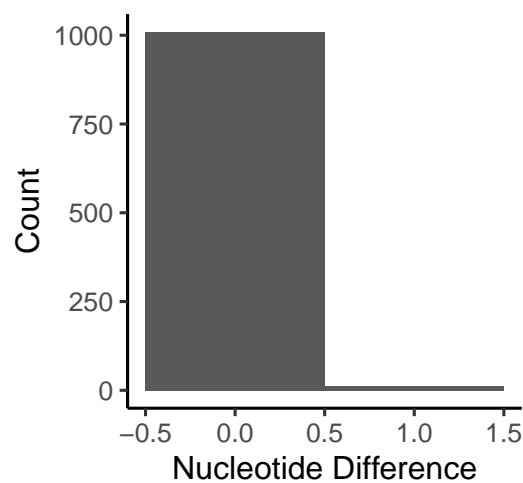
TRBV14*ap01

2709 sequences assigned
2687 (99.2%) exact matches, in which:
2643 unique CDR3
13 unique J



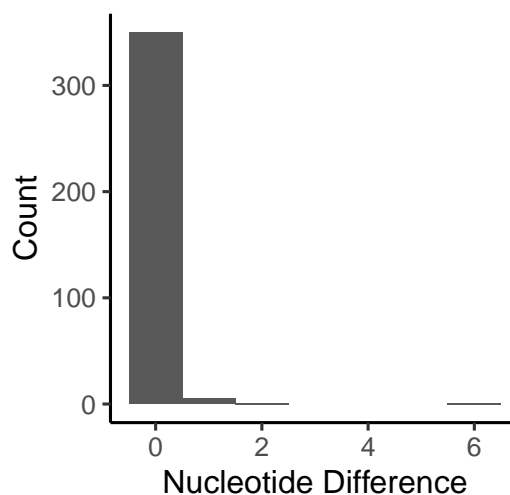
TRBV20-1*ap02

1021 sequences assigned
1009 (98.8%) exact matches, in which:
988 unique CDR3
13 unique J



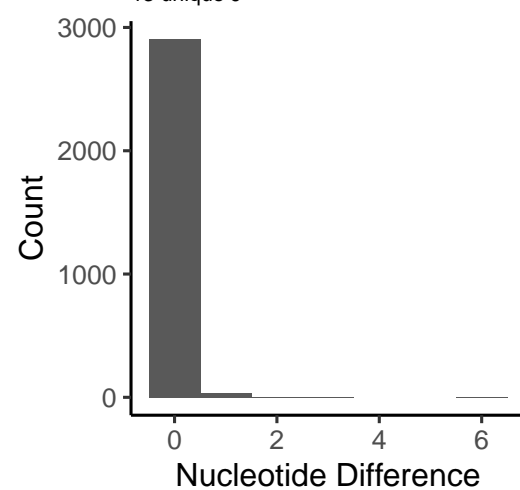
TRBV1*ap01

357 sequences assigned
350 (98%) exact matches, in which:
346 unique CDR3
13 unique J



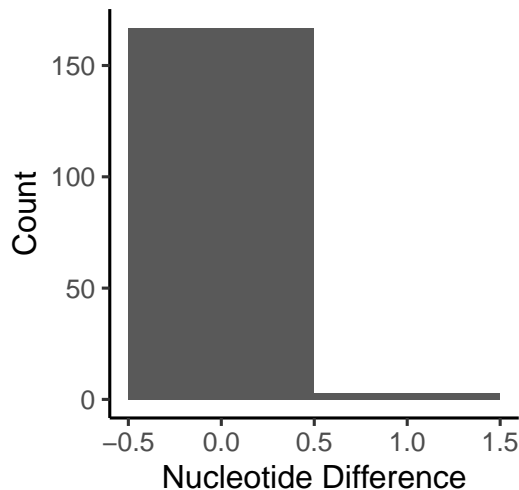
TRBV15*ap02

2944 sequences assigned
2906 (98.7%) exact matches, in which:
2840 unique CDR3
13 unique J



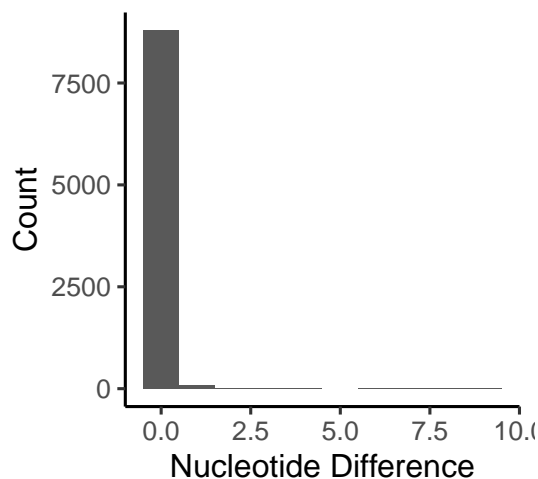
TRBV16*ap01

170 sequences assigned
167 (98.2%) exact matches, in which:
165 unique CDR3
13 unique J



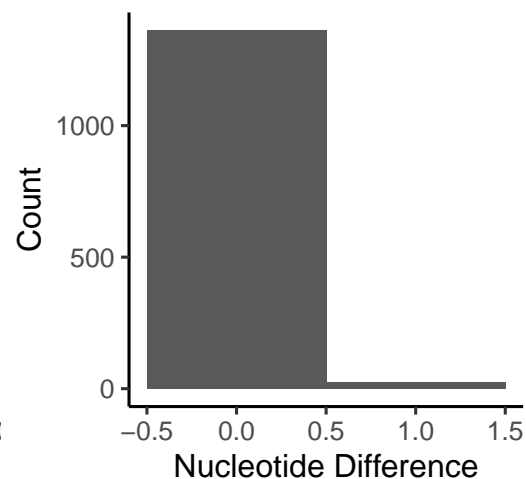
TRBV19*ap01

8894 sequences assigned
8790 (98.8%) exact matches, in which:
8695 unique CDR3
13 unique J



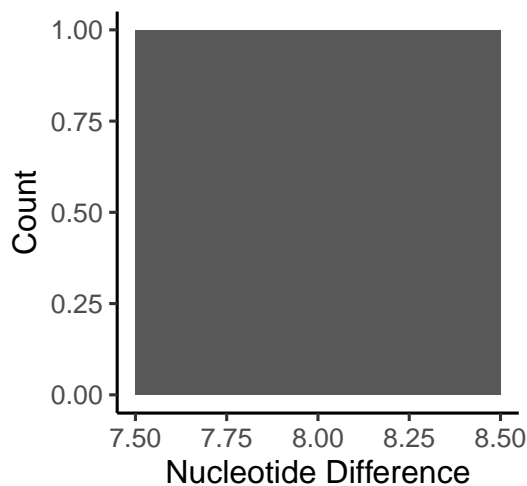
TRBV28*ap01

1385 sequences assigned
1362 (98.3%) exact matches, in which:
1335 unique CDR3
13 unique J



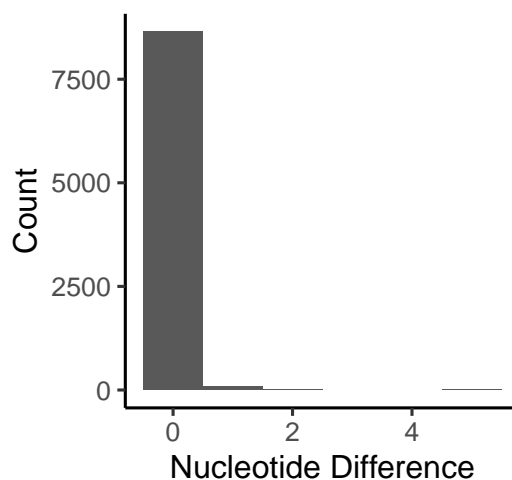
TRBV17*ap01

1 sequences assigned
No exact matches.



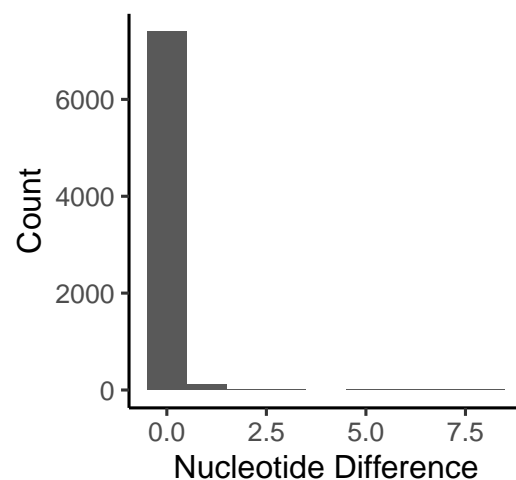
TRBV2*ap01

8731 sequences assigned
8646 (99%) exact matches, in which:
8503 unique CDR3
13 unique J



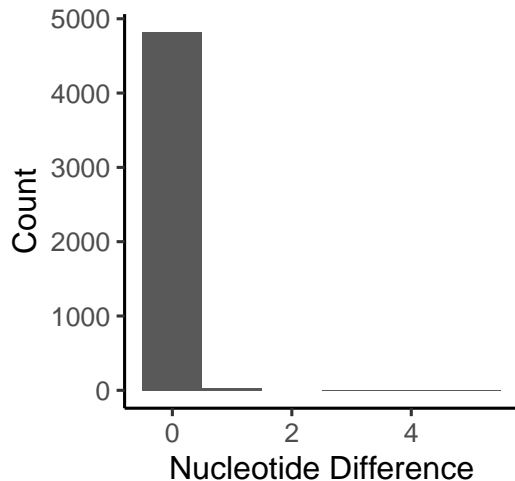
TRBV30*ap01

7519 sequences assigned
7397 (98.4%) exact matches, in which:
7326 unique CDR3
14 unique J



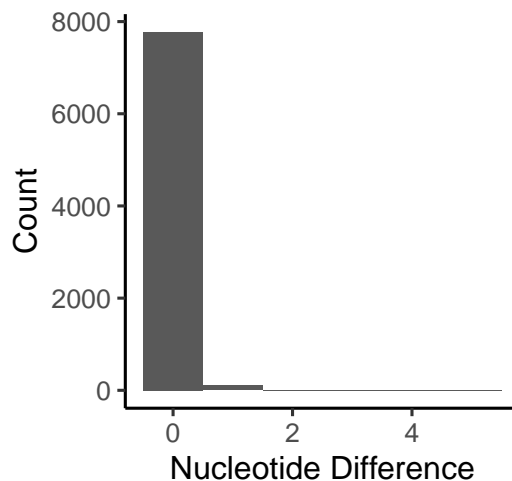
TRBV18*ap01

4859 sequences assigned
4821 (99.2%) exact matches, in which:
4737 unique CDR3
13 unique J



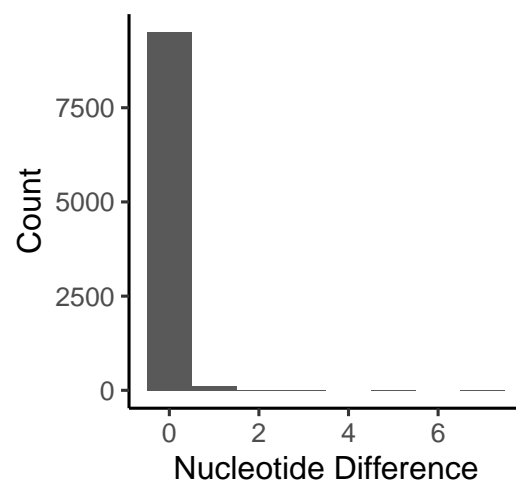
TRBV27*ap01

7884 sequences assigned
7773 (98.6%) exact matches, in which:
7632 unique CDR3
13 unique J



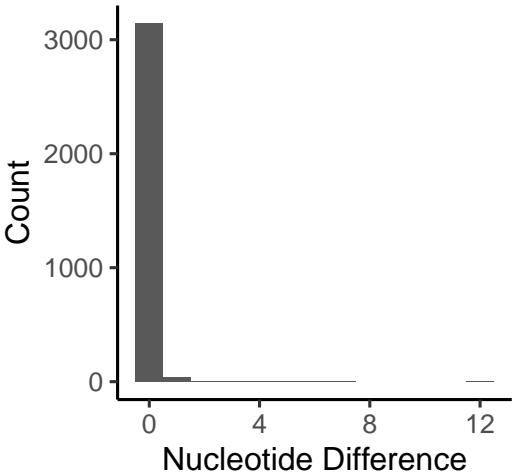
TRBV9*ap01

9623 sequences assigned
9509 (98.8%) exact matches, in which:
9336 unique CDR3
13 unique J



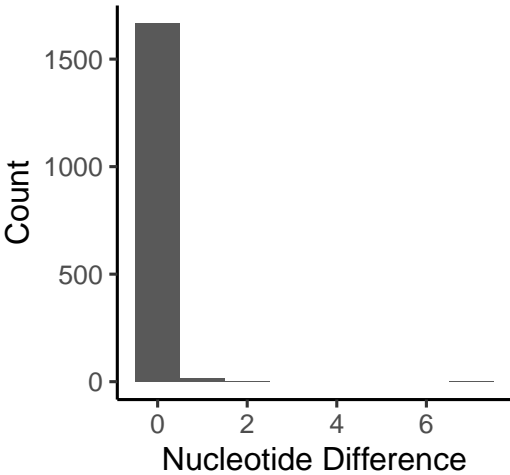
TRBV21-1*ap01

3201 sequences assigned
3143 (98.2%) exact matches, in which:
3072 unique CDR3
13 unique J



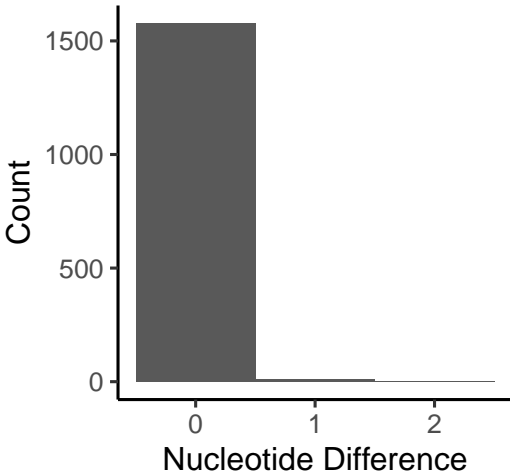
TRBV11-3*ap01

1682 sequences assigned
1666 (99%) exact matches, in which:
1650 unique CDR3
13 unique J



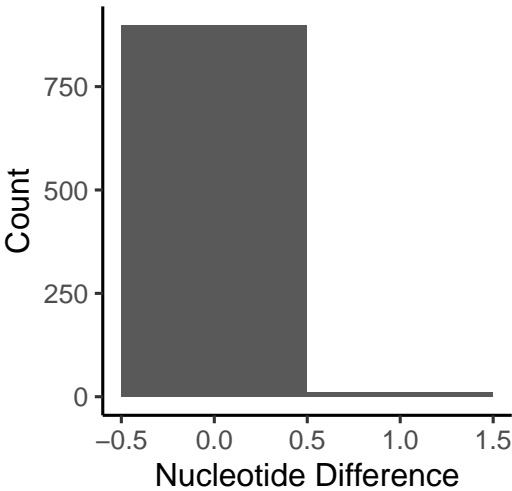
TRBV12-5*ap01

1591 sequences assigned
1577 (99.1%) exact matches, in which:
1554 unique CDR3
13 unique J



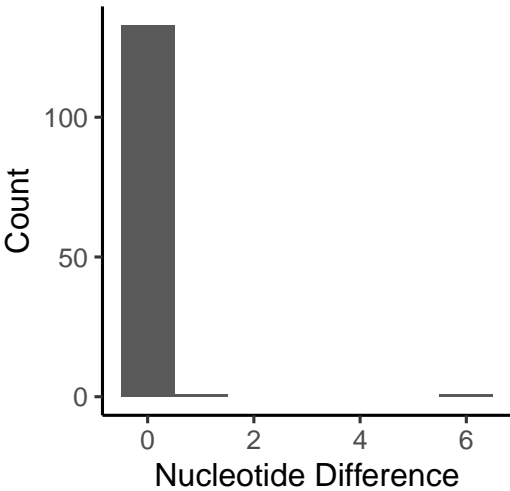
TRBV11-1*ap01

911 sequences assigned
899 (98.7%) exact matches, in which:
882 unique CDR3
13 unique J



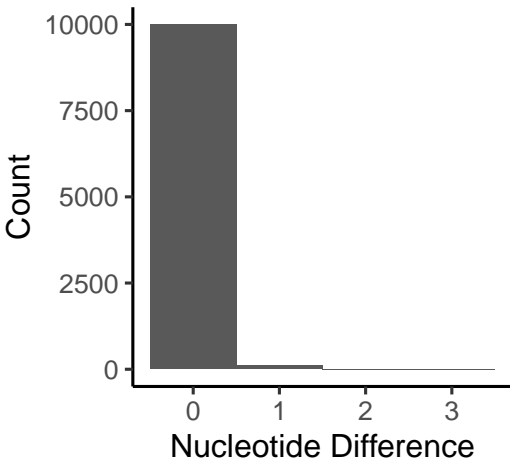
TRBV12-1*ap01

135 sequences assigned
133 (98.5%) exact matches, in which:
133 unique CDR3
12 unique J



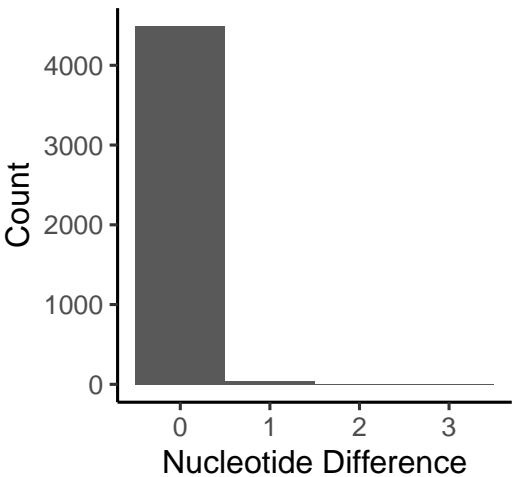
TRBV12-34*ap01

10118 sequences assigned
9999 (98.8%) exact matches, in which:
9834 unique CDR3
13 unique J



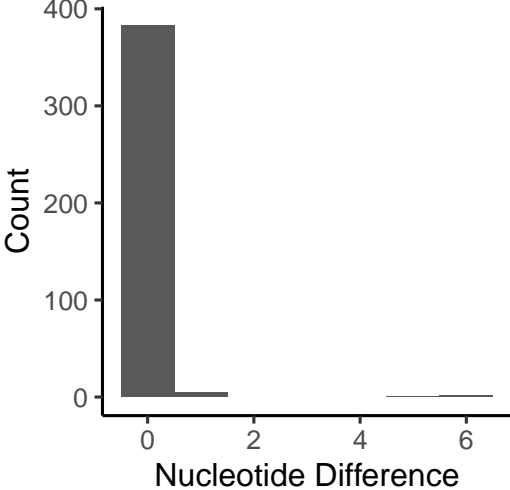
TRBV11-2*ap01

4541 sequences assigned
4492 (98.9%) exact matches, in which:
4388 unique CDR3
13 unique J



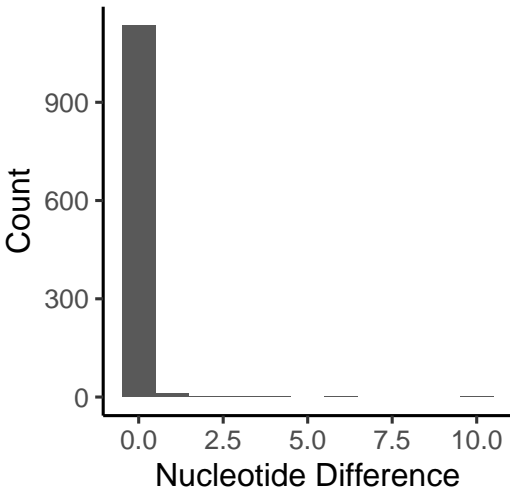
TRBV12-2*ap01

391 sequences assigned
383 (98%) exact matches, in which:
377 unique CDR3
13 unique J



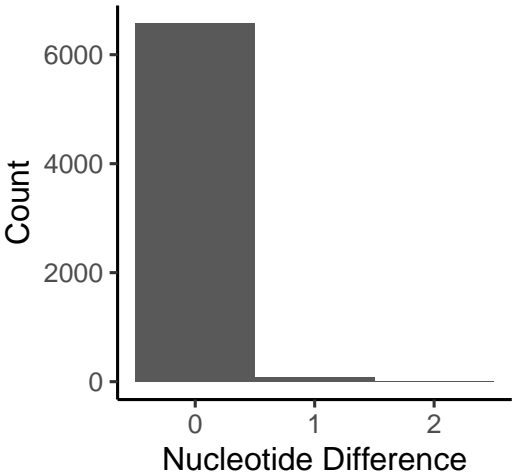
TRBV23-1*ap01

1154 sequences assigned
1135 (98.4%) exact matches, in which:
1113 unique CDR3
13 unique J



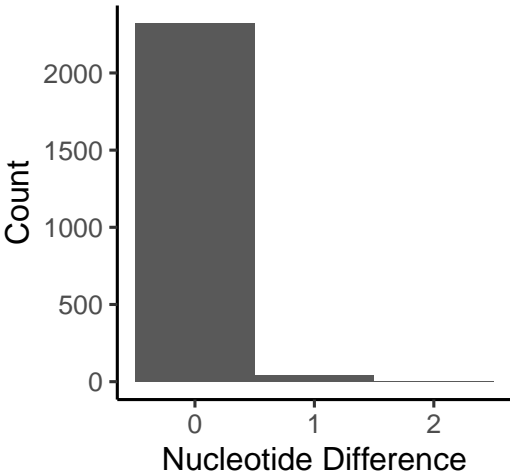
TRBV3-12*ap01

6656 sequences assigned
6574 (98.8%) exact matches, in which:
6458 unique CDR3
13 unique J



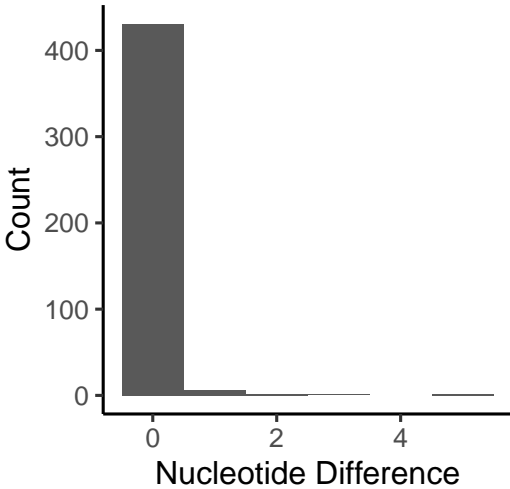
TRBV4-2*ap01

2363 sequences assigned
2321 (98.2%) exact matches, in which:
2286 unique CDR3
13 unique J



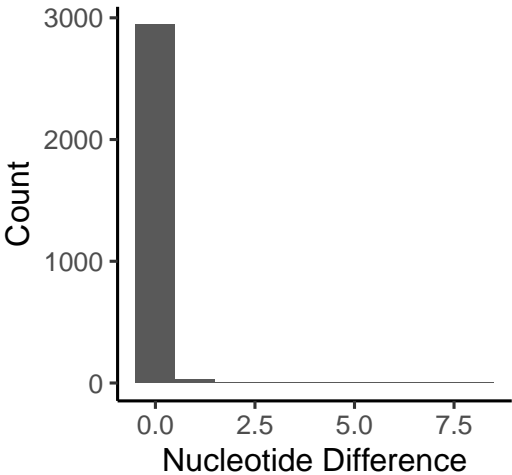
TRBV5-3*ap01

442 sequences assigned
431 (97.5%) exact matches, in which:
425 unique CDR3
13 unique J



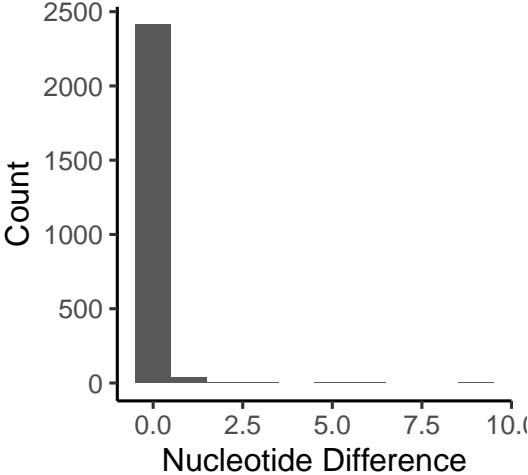
TRBV24-1*ap01

2979 sequences assigned
2943 (98.8%) exact matches, in which:
2906 unique CDR3
13 unique J



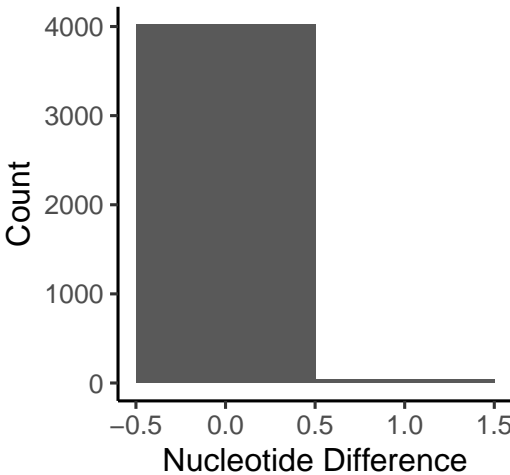
TRBV25-1*ap01

2457 sequences assigned
2412 (98.2%) exact matches, in which:
2371 unique CDR3
13 unique J



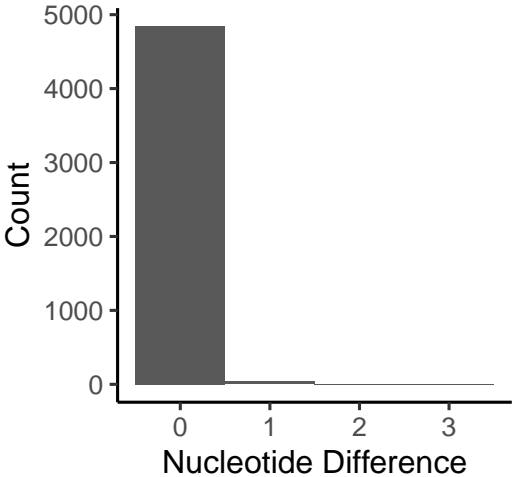
TRBV5-4*ap01

4055 sequences assigned
4020 (99.1%) exact matches, in which:
3942 unique CDR3
13 unique J



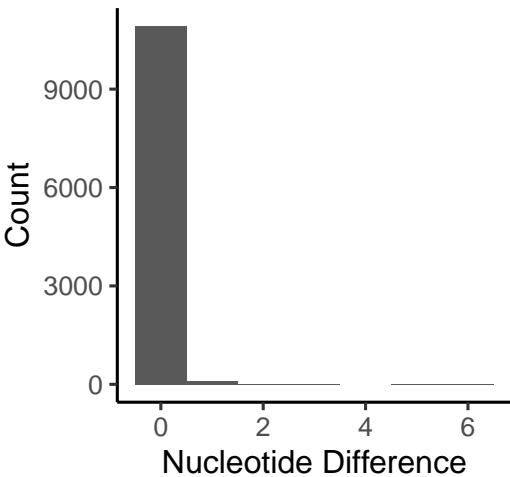
TRBV4-1*ap01

4890 sequences assigned
4846 (99.1%) exact matches, in which:
4766 unique CDR3
13 unique J



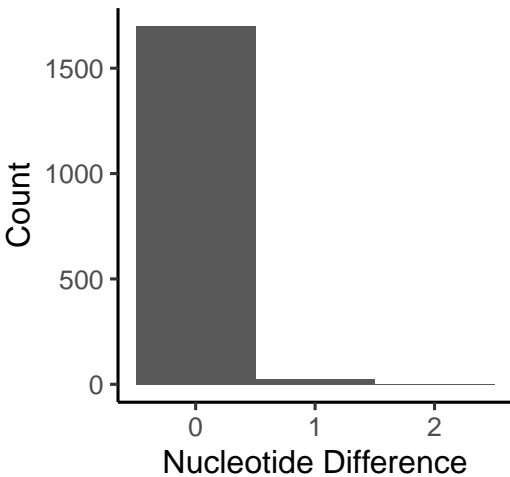
TRBV5-1*ap01

11039 sequences assigned
10923 (98.9%) exact matches, in which:
10607 unique CDR3
13 unique J



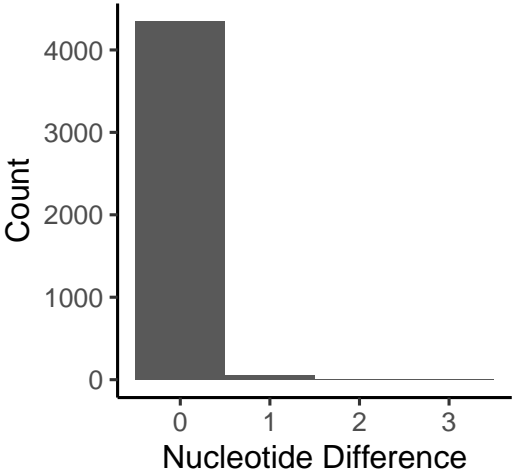
TRBV5-5*ap01

1726 sequences assigned
1700 (98.5%) exact matches, in which:
1681 unique CDR3
13 unique J



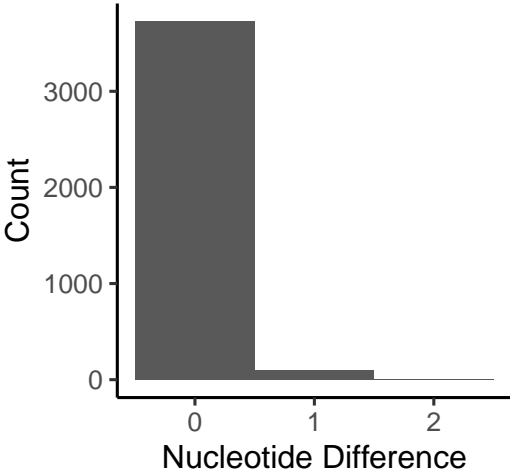
TRBV5-6*ap01

4415 sequences assigned
4346 (98.4%) exact matches, in which:
4234 unique CDR3
13 unique J



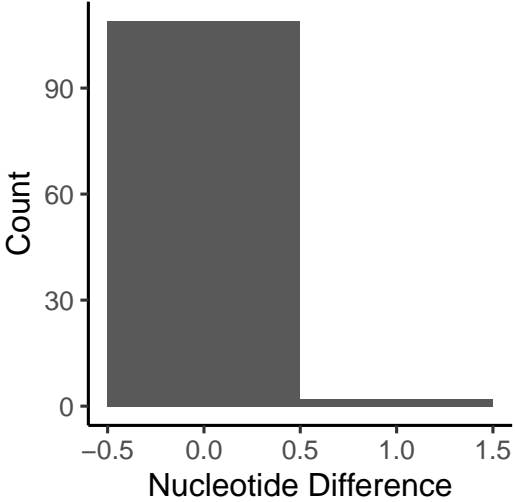
TRBV6-1*ap01

3830 sequences assigned
3727 (97.3%) exact matches, in which:
3647 unique CDR3
13 unique J



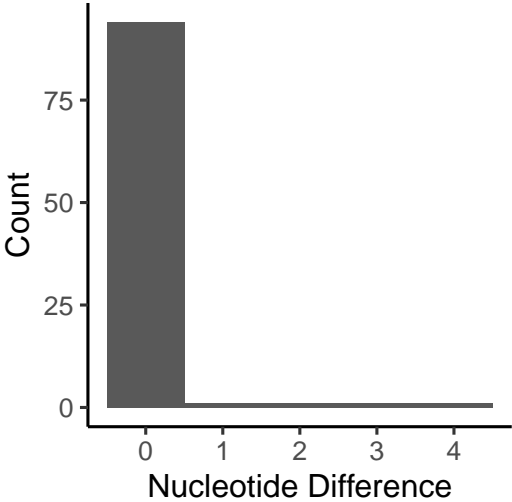
TRBV6-8*ap01

111 sequences assigned
109 (98.2%) exact matches, in which:
105 unique CDR3
13 unique J



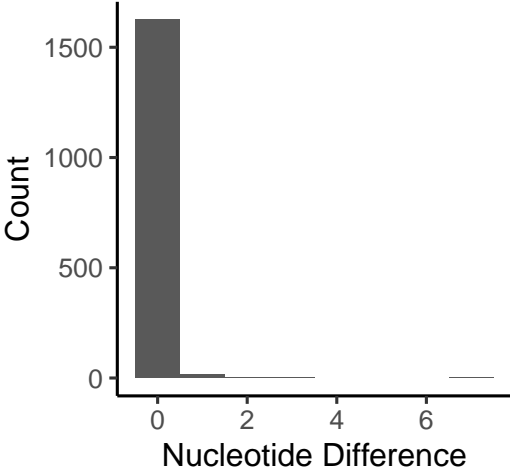
TRBV5-7*ap01

98 sequences assigned
94 (95.9%) exact matches, in which:
93 unique CDR3
13 unique J



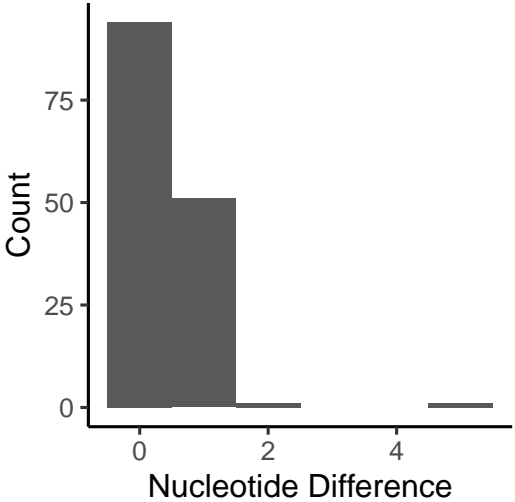
TRBV6-4*ap01

1645 sequences assigned
1625 (98.8%) exact matches, in which:
1606 unique CDR3
13 unique J



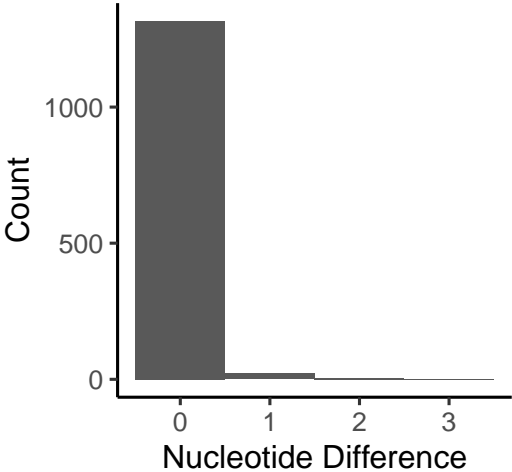
TRBV6-9*ap01

147 sequences assigned
94 (63.9%) exact matches, in which:
90 unique CDR3
12 unique J



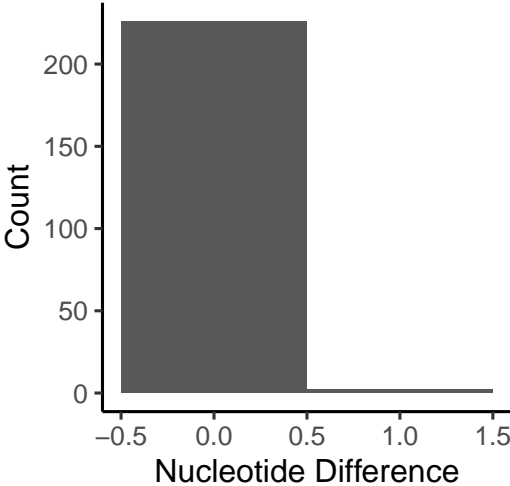
TRBV5-8*ap01

1343 sequences assigned
1316 (98%) exact matches, in which:
1287 unique CDR3
13 unique J



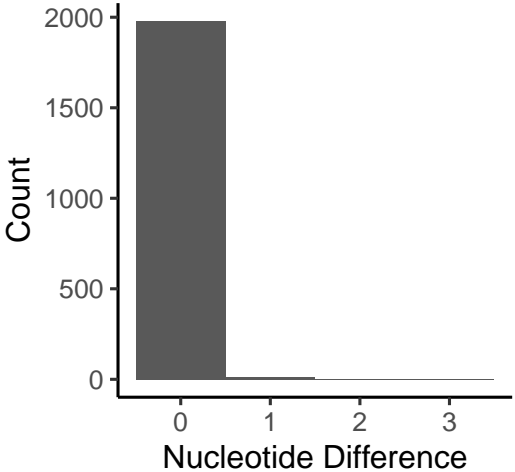
TRBV6-7*ap01

228 sequences assigned
226 (99.1%) exact matches, in which:
219 unique CDR3
13 unique J



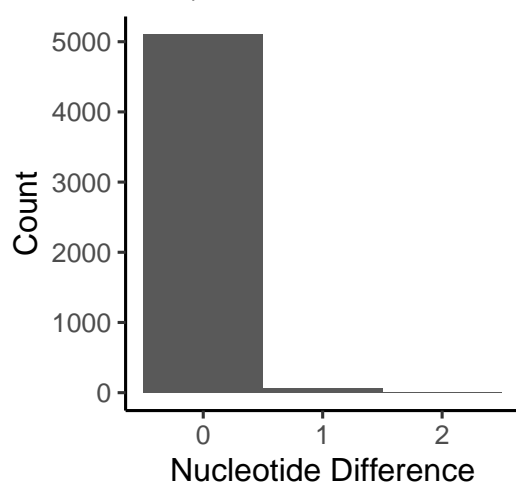
TRBV6-23*ap01

1995 sequences assigned
1979 (99.2%) exact matches, in which:
1940 unique CDR3
13 unique J



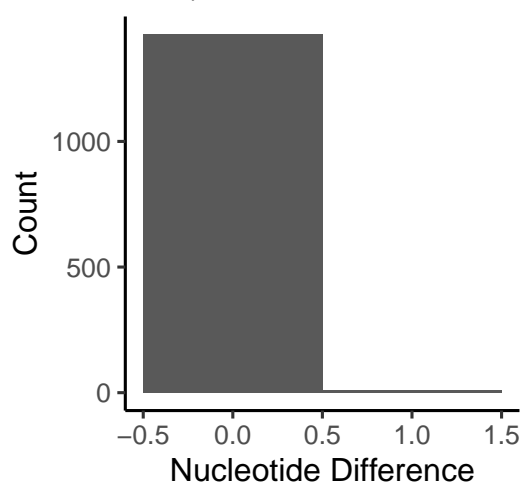
TRBV6-56*ap01

5165 sequences assigned
5104 (98.8%) exact matches, in which:
5016 unique CDR3
14 unique J



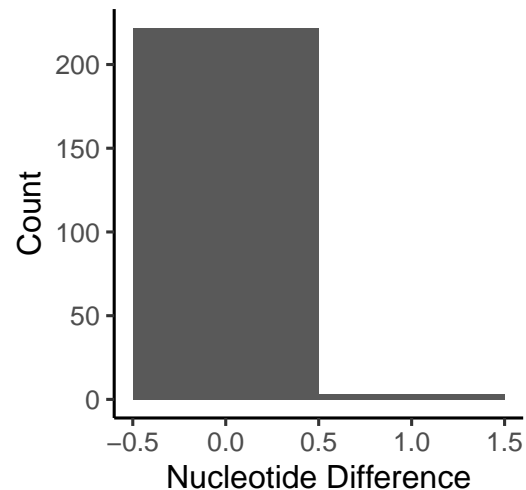
TRBV7-2*ap01

1437 sequences assigned
1426 (99.2%) exact matches, in which:
1403 unique CDR3
13 unique J



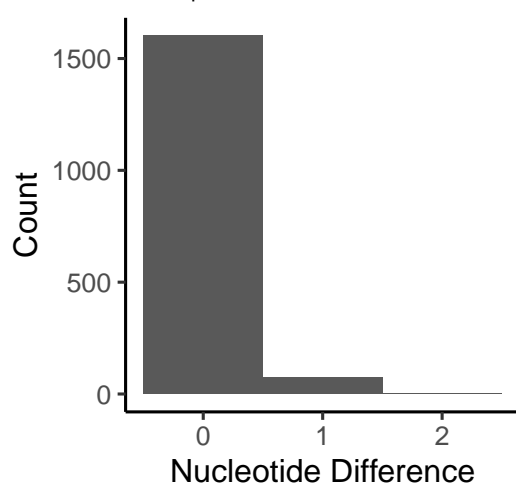
TRBV7-4*ap01

225 sequences assigned
222 (98.7%) exact matches, in which:
214 unique CDR3
13 unique J



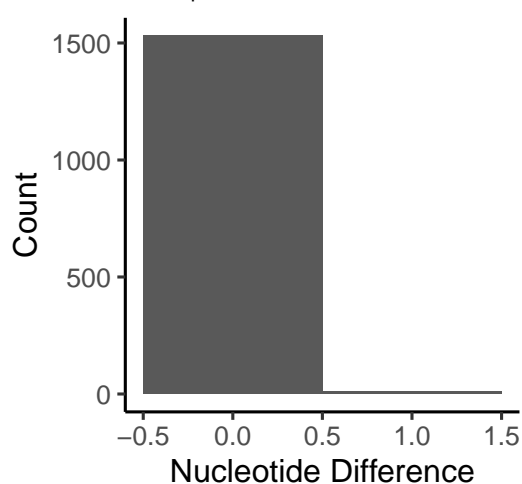
TRBV6-56*ap02

1677 sequences assigned
1602 (95.5%) exact matches, in which:
1578 unique CDR3
13 unique J



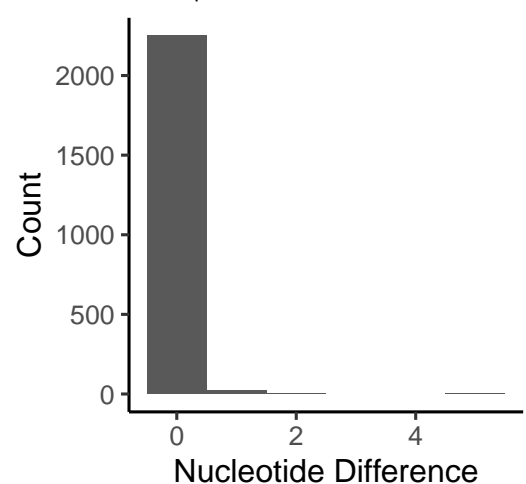
TRBV7-2*ap01_G297A

1543 sequences assigned
1531 (99.2%) exact matches, in which:
1499 unique CDR3
13 unique J



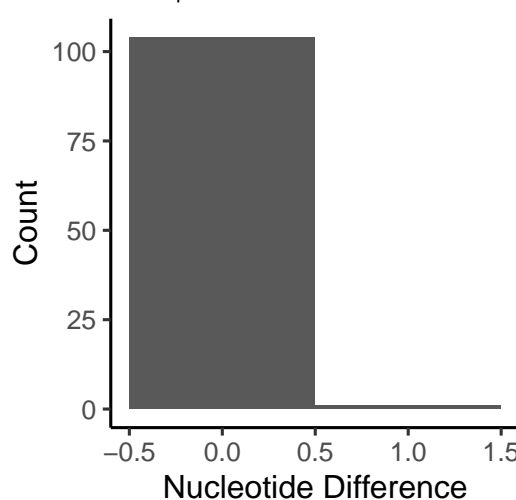
TRBV7-6*ap01

2275 sequences assigned
2250 (98.9%) exact matches, in which:
2190 unique CDR3
13 unique J



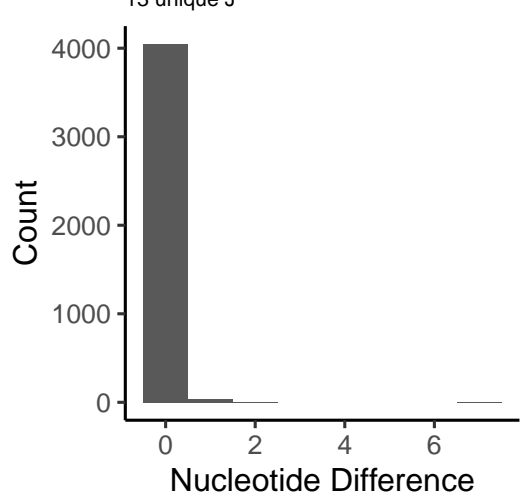
TRBV7-1*ap01_G291C_

105 sequences assigned
104 (99%) exact matches, in which:
101 unique CDR3
13 unique J



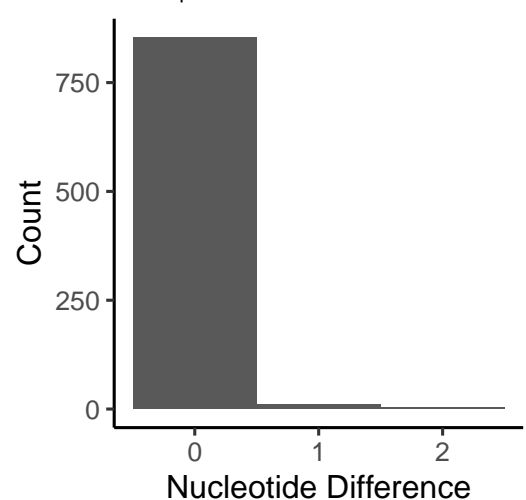
TRBV7-3*ap01

4089 sequences assigned
4047 (99%) exact matches, in which:
3989 unique CDR3
13 unique J



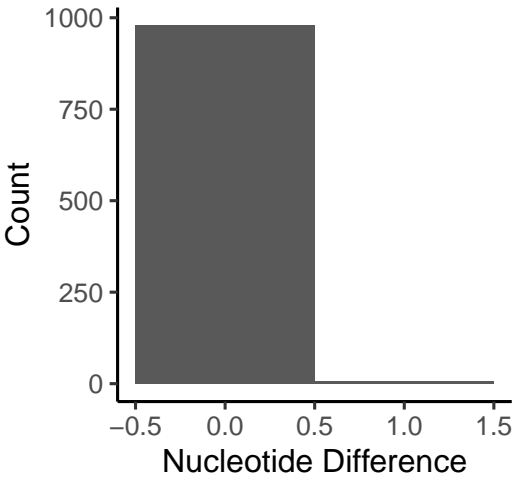
TRBV7-7*ap01_C315T

867 sequences assigned
854 (98.5%) exact matches, in which:
840 unique CDR3
13 unique J



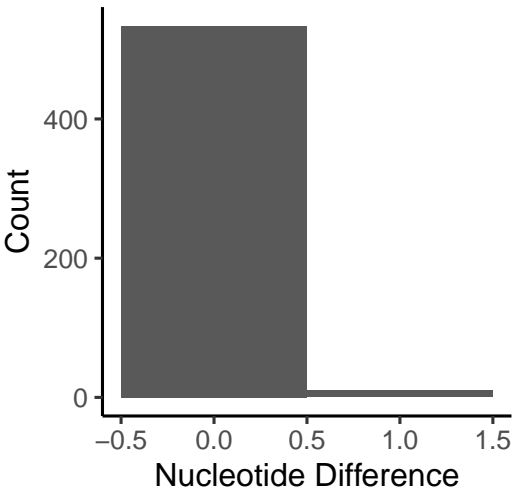
TRBV7-8*ap01

986 sequences assigned
979 (99.3%) exact matches, in which:
960 unique CDR3
13 unique J



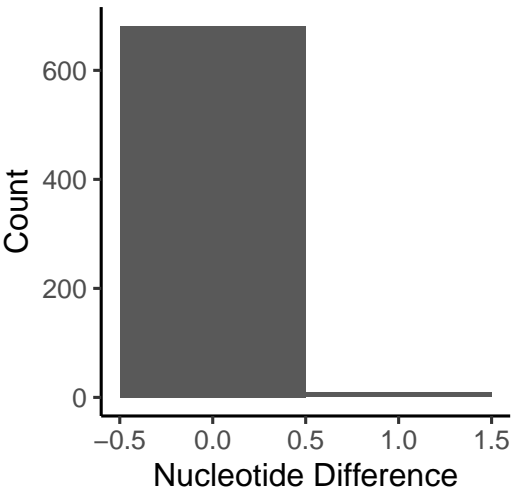
TRBV7-8*ap03_C297A

544 sequences assigned
534 (98.2%) exact matches, in which:
524 unique CDR3
13 unique J



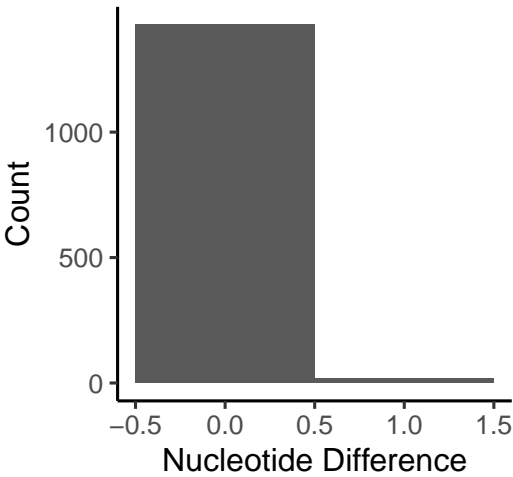
TRBV29-1*ap02

691 sequences assigned
682 (98.7%) exact matches, in which:
677 unique CDR3
13 unique J



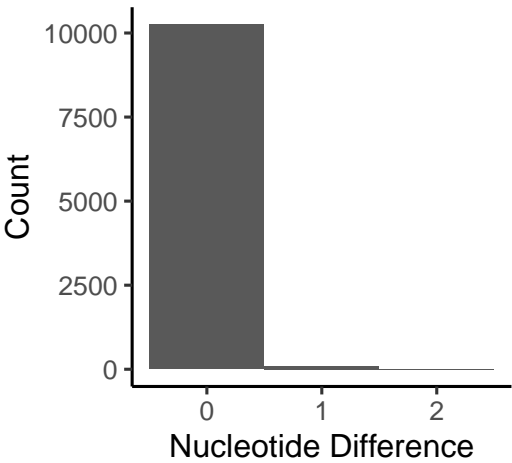
TRBV7-8*ap02

1445 sequences assigned
1428 (98.8%) exact matches, in which:
1385 unique CDR3
14 unique J



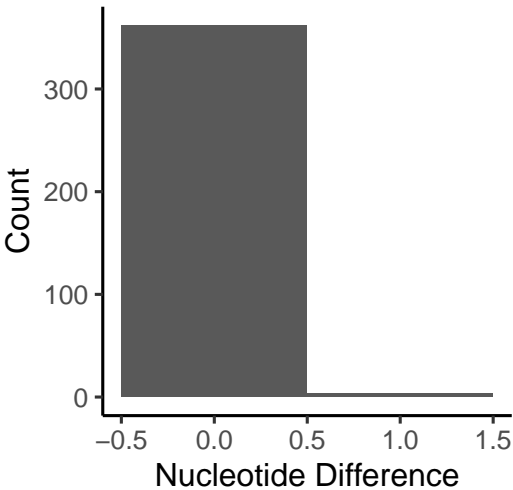
TRBV7-9*ap01

10351 sequences assigned
10254 (99.1%) exact matches, in which:
10068 unique CDR3
13 unique J



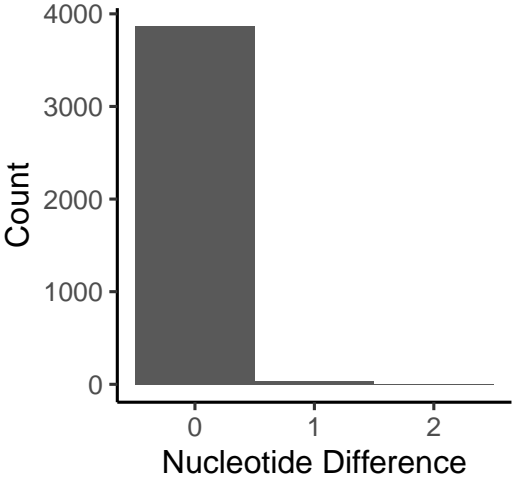
TRBV7-8*ap03

365 sequences assigned
362 (99.2%) exact matches, in which:
356 unique CDR3
13 unique J

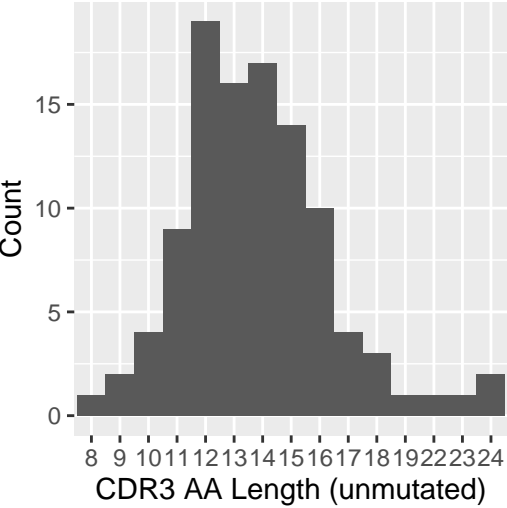


TRBV29-1*ap01

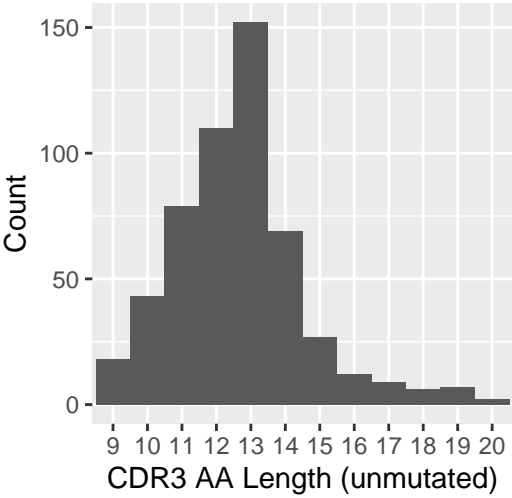
3905 sequences assigned
3868 (99.1%) exact matches, in which:
3819 unique CDR3
13 unique J



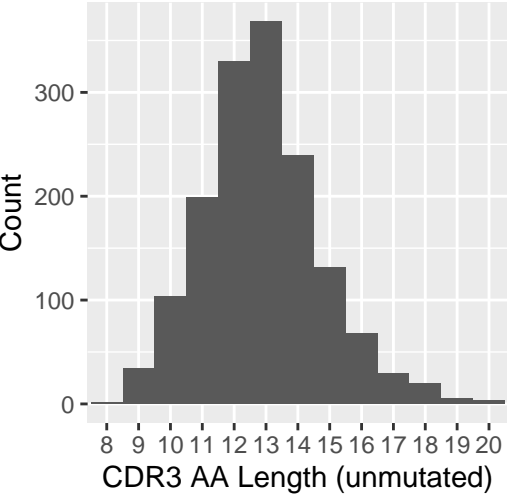
TRBV7-1*ap01_G291C_T29



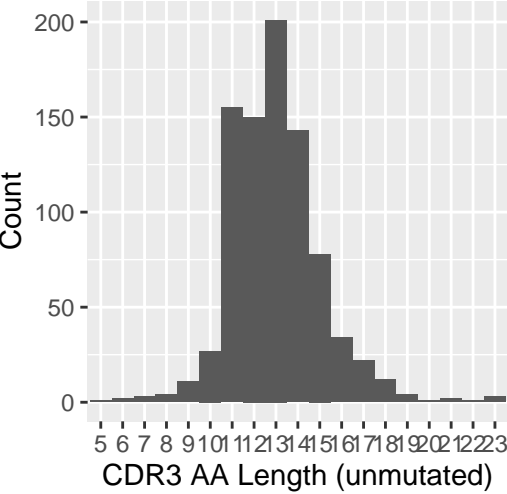
TRBV7-8*ap03_C297A

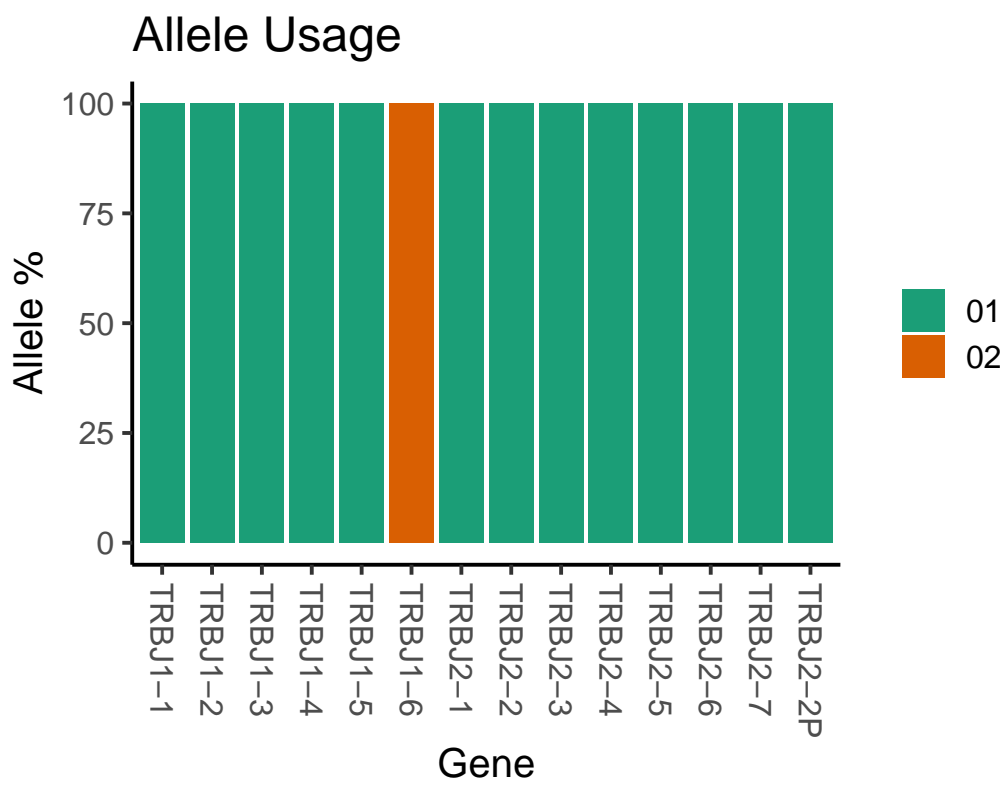


TRBV7-2*ap01_G297A



TRBV7-7*ap01_C315T





[illegible]