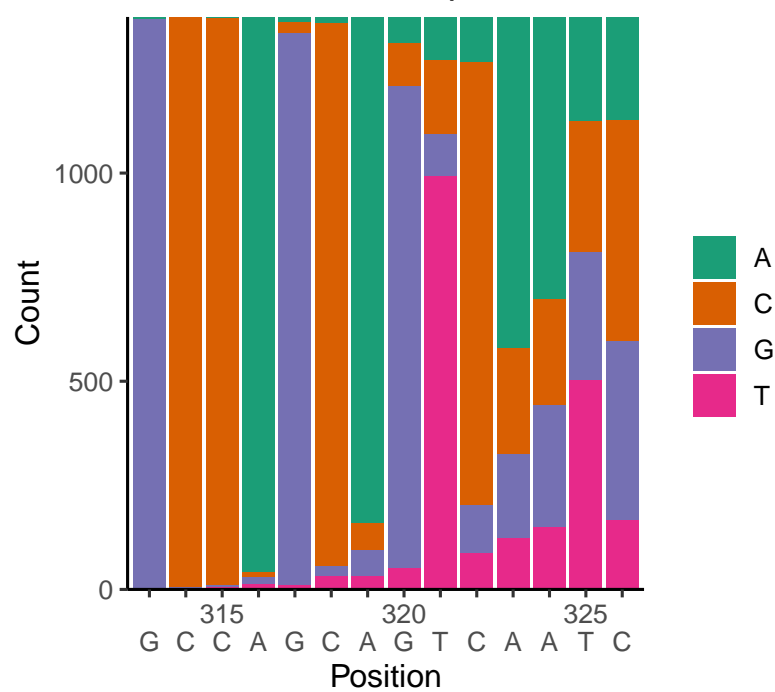
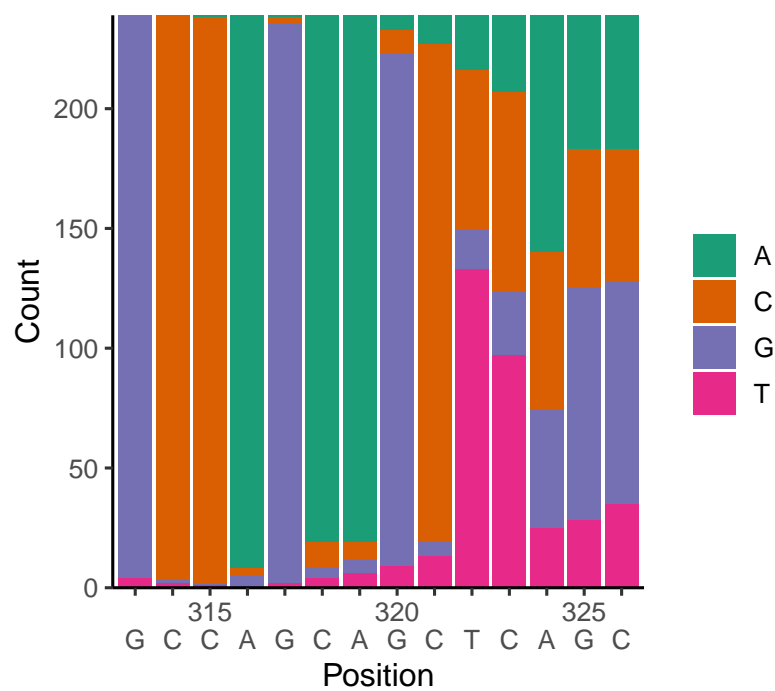


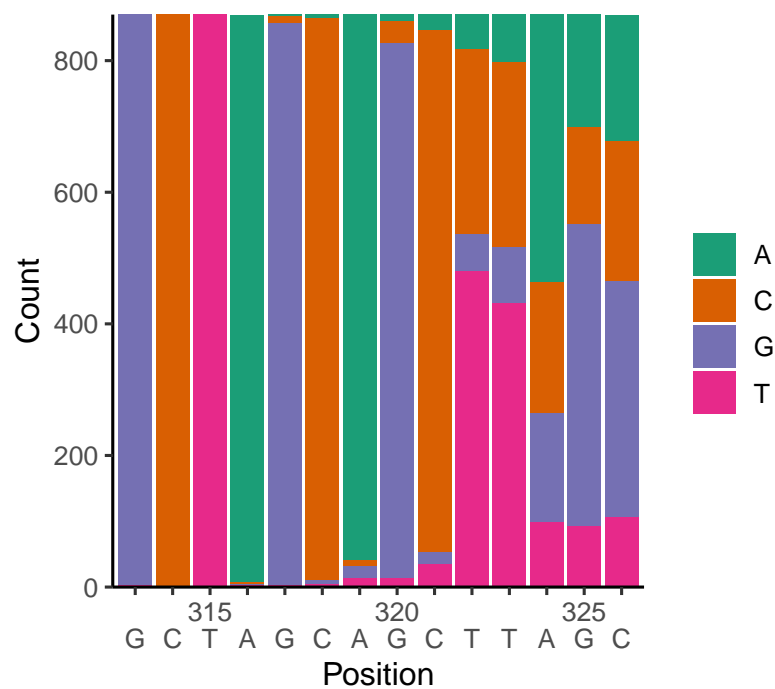
Gene TRBV23-1*ap01_T304C



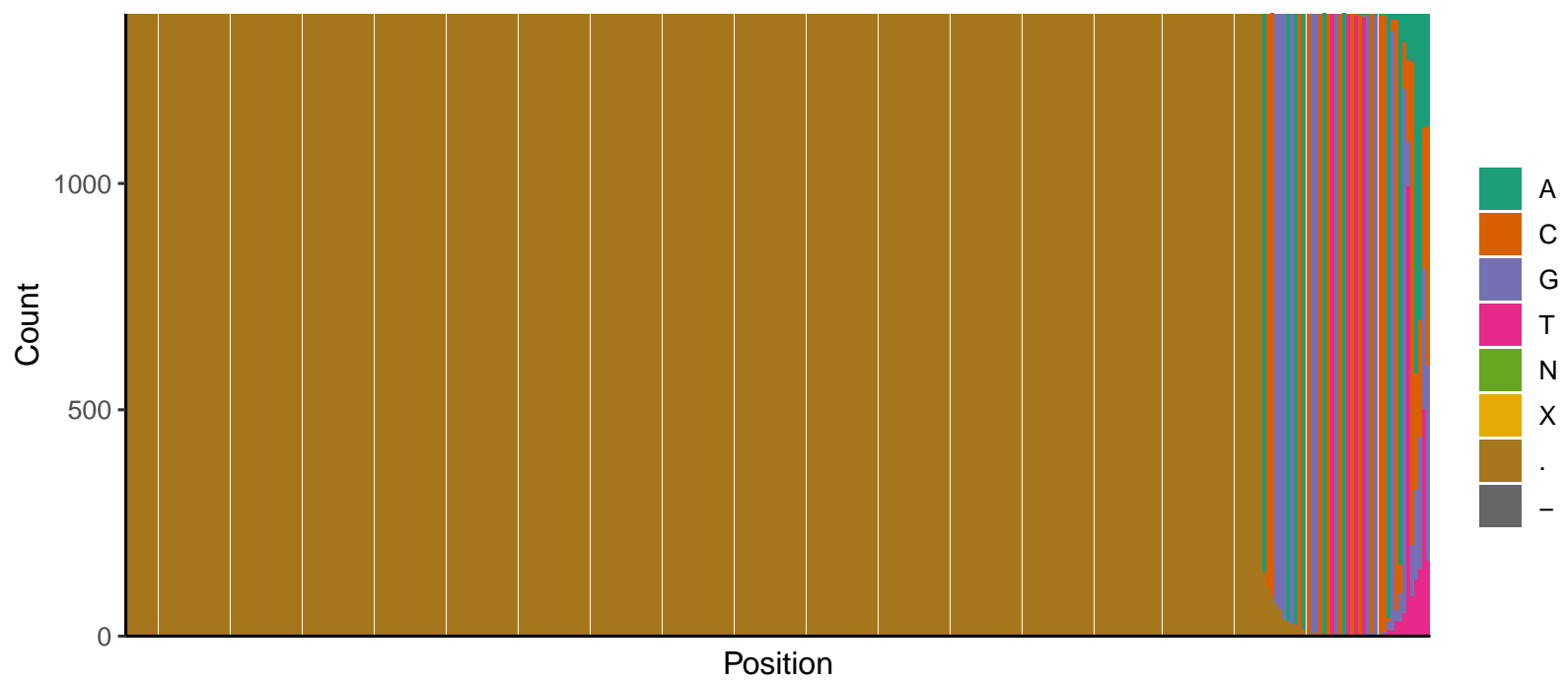
Gene TRBV7-1*ap01_G291C_T296C



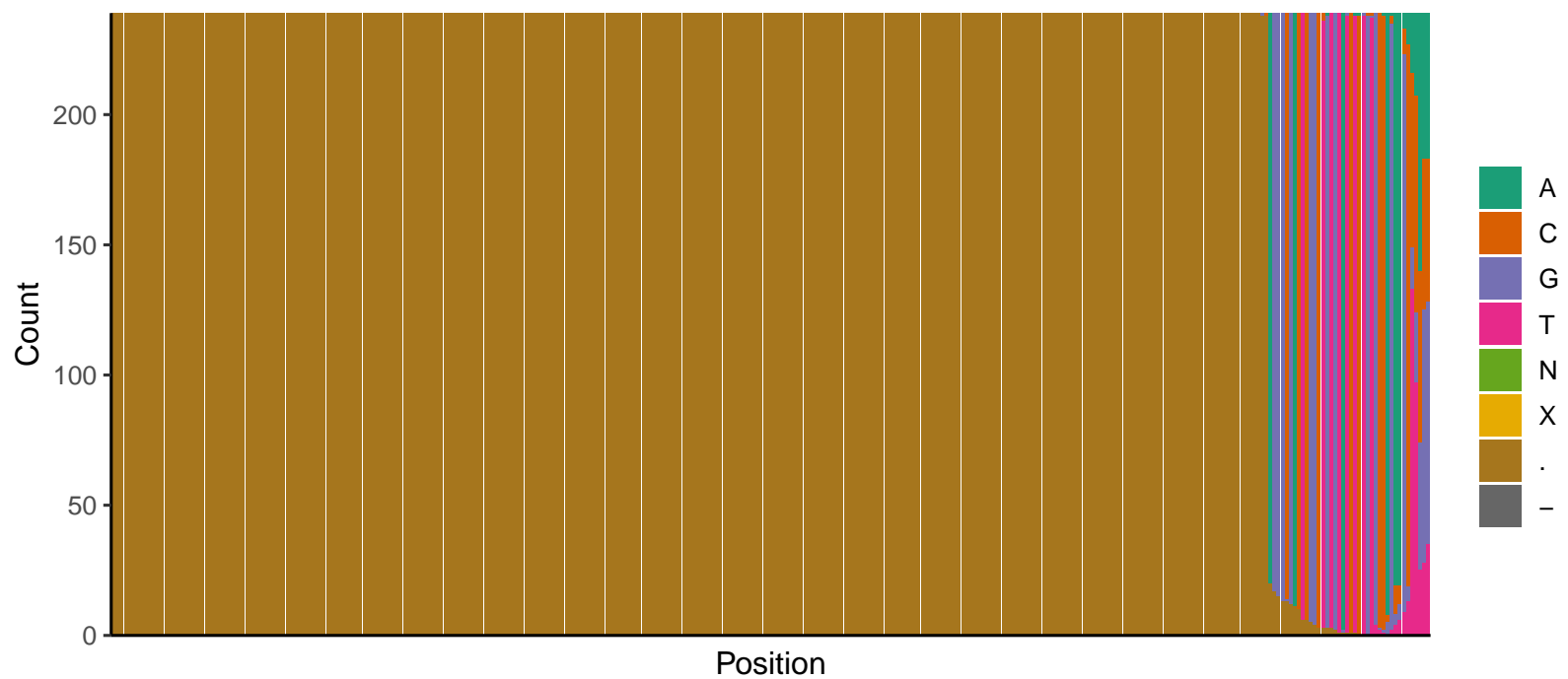
Gene TRBV7-7*ap01_C315T



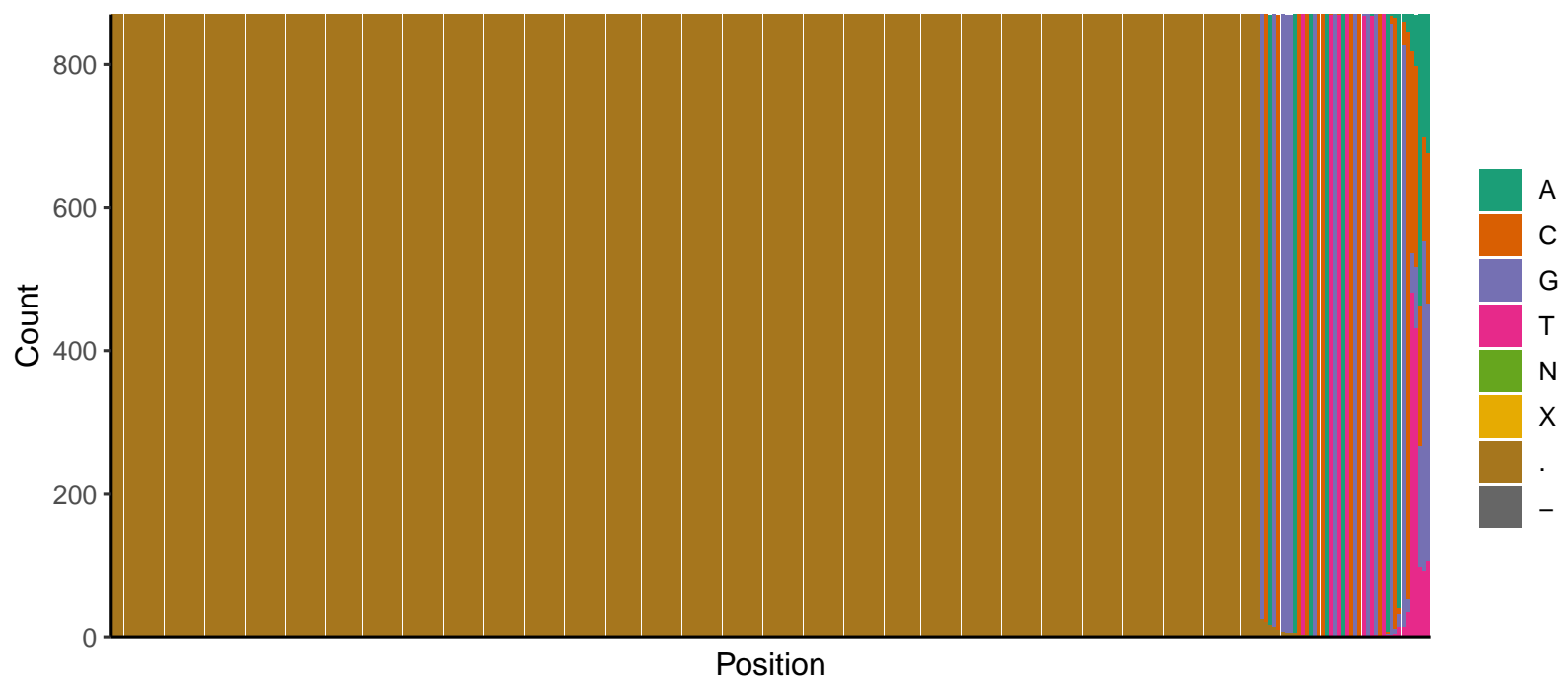
Gene TRBV23-1*ap01_T304C



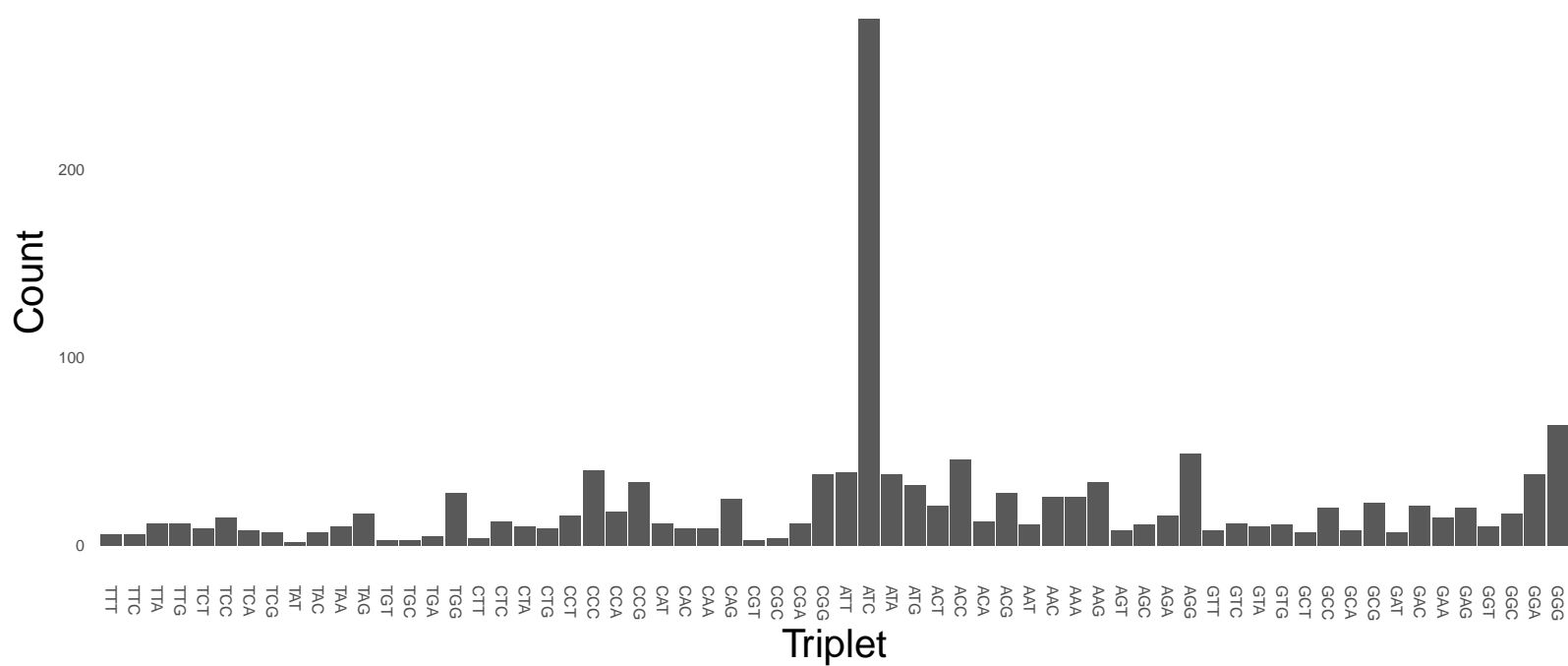
Gene TRBV7-1*ap01_G291C_T296C



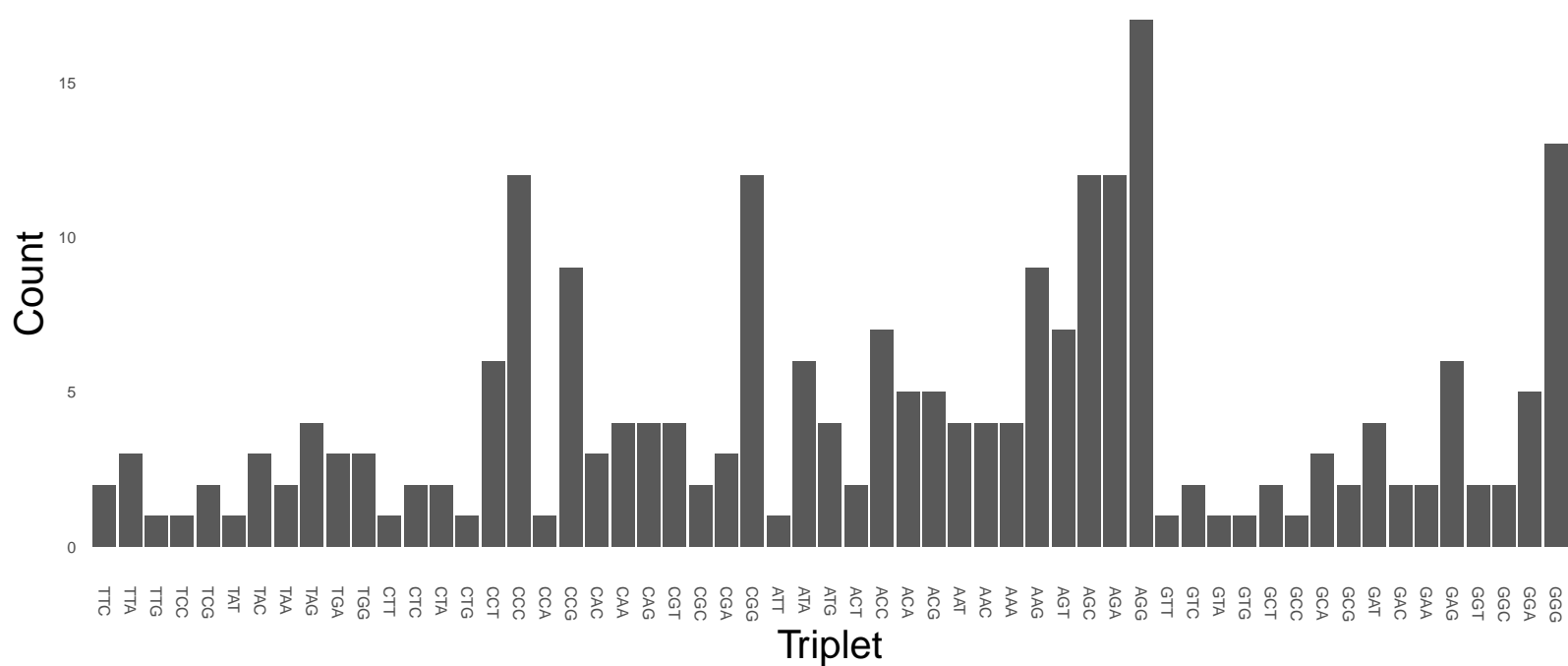
Gene TRBV7-7*ap01_C315T



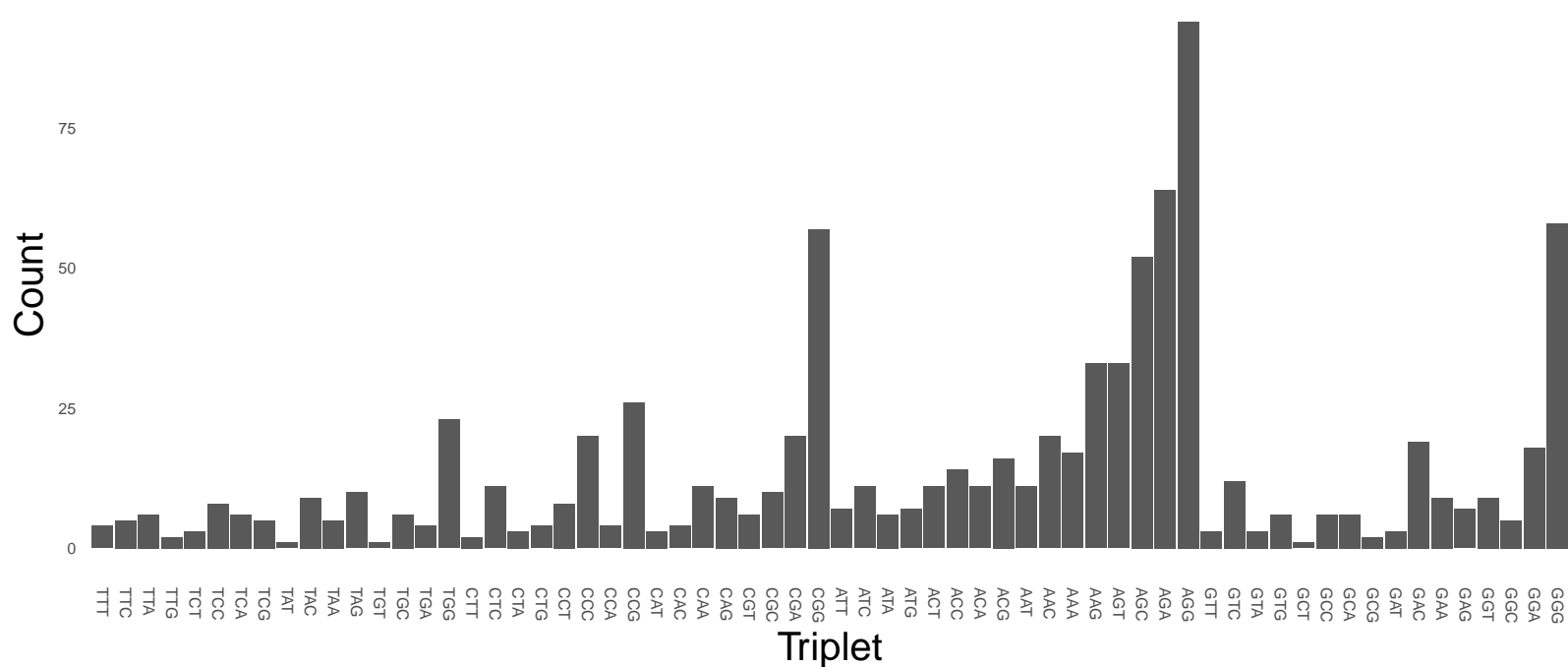
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



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

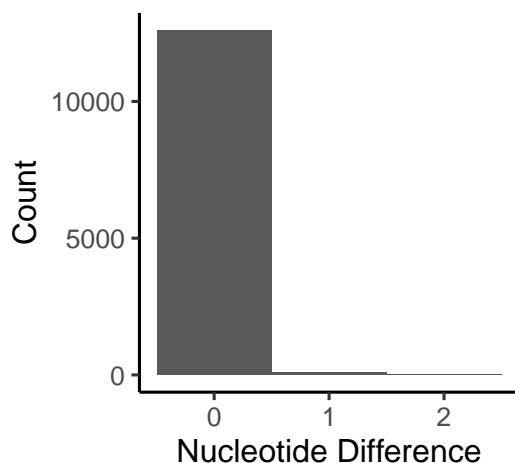


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



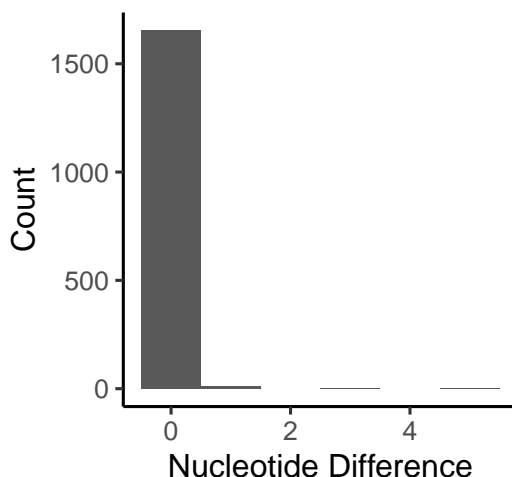
TRBV20-1*ap01

12718 sequences assigned
12606 (99.1%) exact matches, in which:
12417 unique CDR3
13 unique J



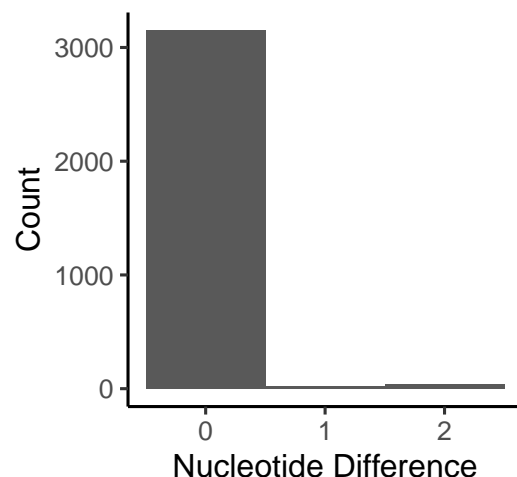
TRBV10-2*ap01

1669 sequences assigned
1654 (99.1%) exact matches, in which:
1631 unique CDR3
13 unique J



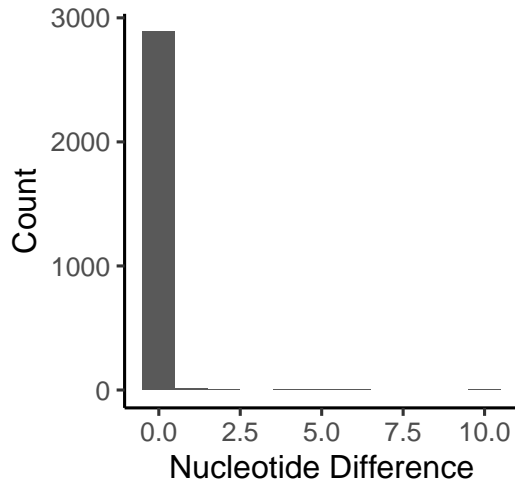
TRBV13*ap01

3209 sequences assigned
3150 (98.2%) exact matches, in which:
3082 unique CDR3
13 unique J



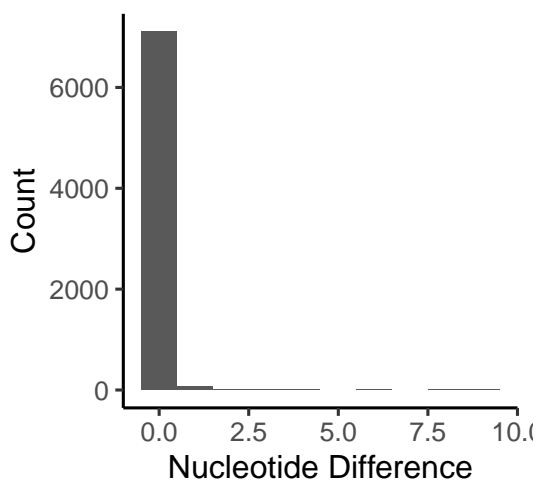
TRBV10-1*ap01

2914 sequences assigned
2888 (99.1%) exact matches, in which:
2843 unique CDR3
13 unique J



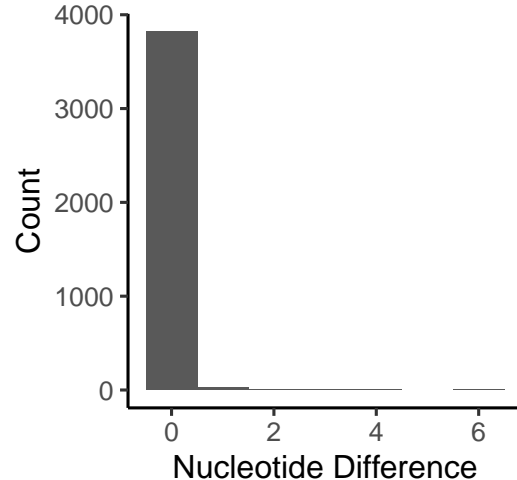
TRBV10-3*ap01

7187 sequences assigned
7105 (98.9%) exact matches, in which:
7009 unique CDR3
13 unique J



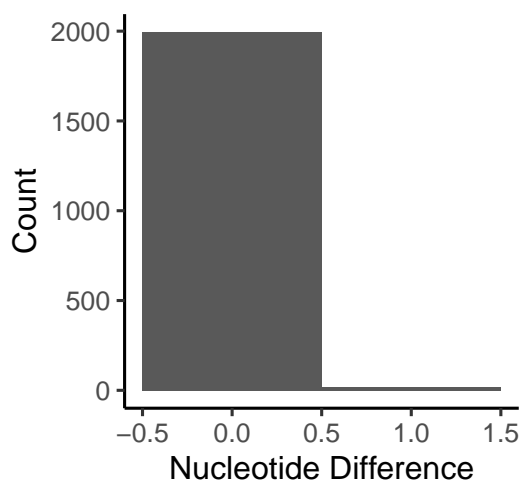
TRBV14*ap01

3847 sequences assigned
3819 (99.3%) exact matches, in which:
3765 unique CDR3
13 unique J



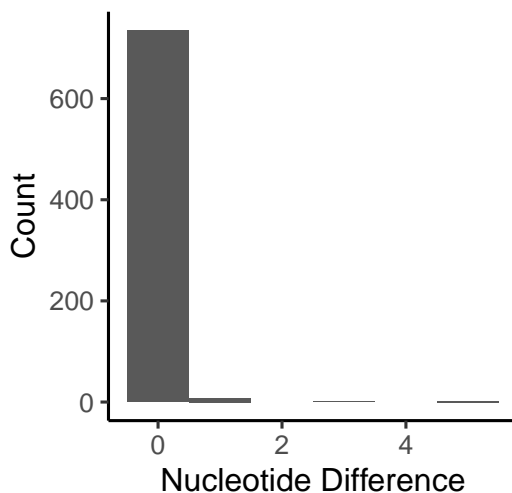
TRBV20-1*ap02

2012 sequences assigned
1995 (99.2%) exact matches, in which:
1964 unique CDR3
13 unique J



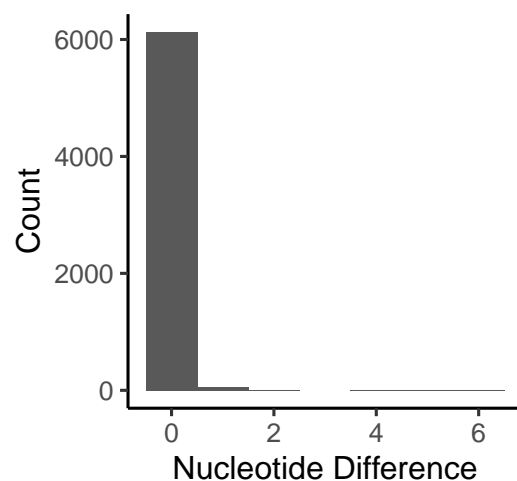
TRBV1*ap01

746 sequences assigned
735 (98.5%) exact matches, in which:
712 unique CDR3
13 unique J



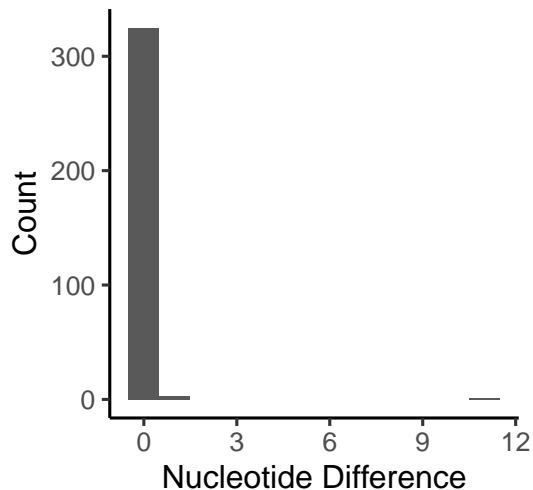
TRBV15*ap02

6194 sequences assigned
6127 (98.9%) exact matches, in which:
5979 unique CDR3
13 unique J



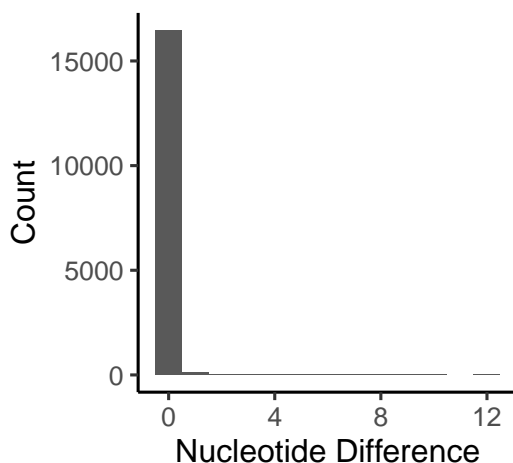
TRBV16*ap01

329 sequences assigned
325 (98.8%) exact matches, in which:
323 unique CDR3
13 unique J



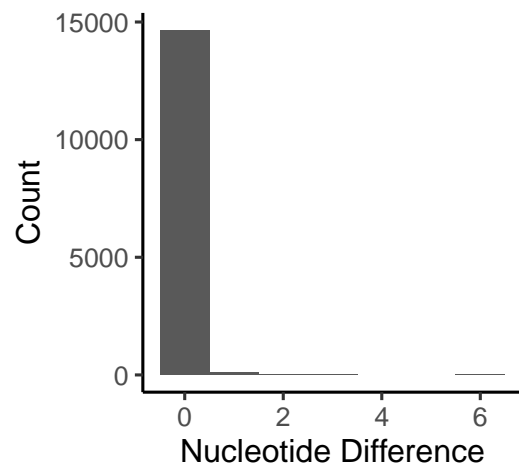
TRBV19*ap01

16619 sequences assigned
16472 (99.1%) exact matches, in which:
16316 unique CDR3
13 unique J



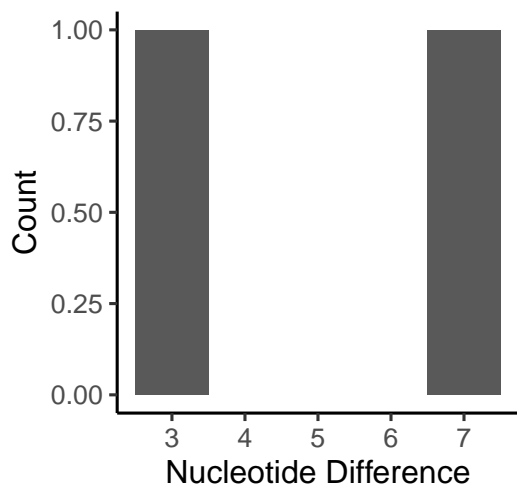
TRBV28*ap01

14762 sequences assigned
14653 (99.3%) exact matches, in which:
14424 unique CDR3
13 unique J



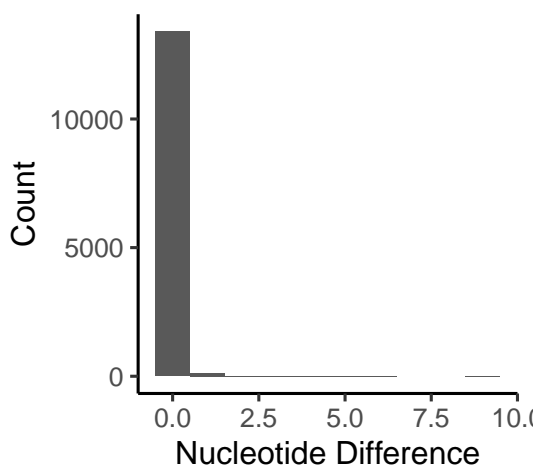
TRBV17*ap01

2 sequences assigned
No exact matches.



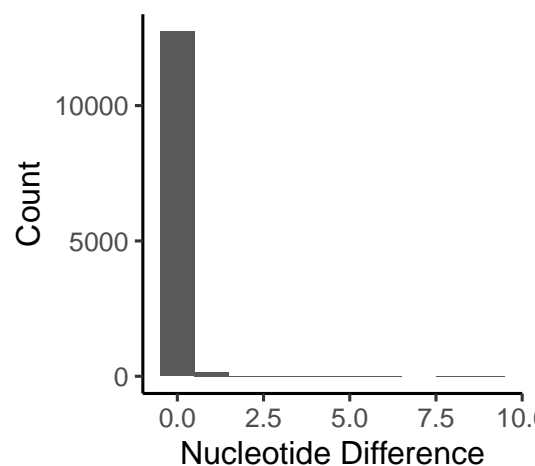
TRBV2*ap01

13542 sequences assigned
13402 (99%) exact matches, in which:
13188 unique CDR3
13 unique J



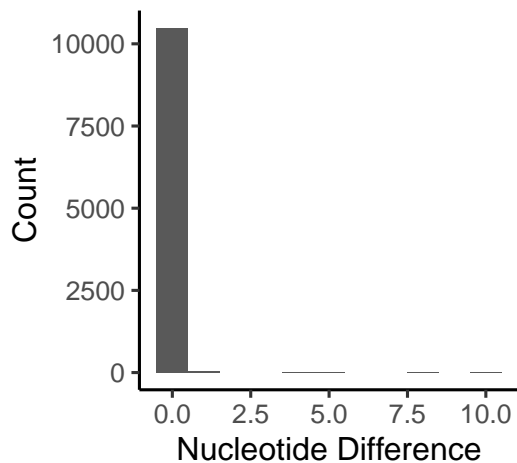
TRBV30*ap01

12917 sequences assigned
12740 (98.6%) exact matches, in which:
12502 unique CDR3
13 unique J



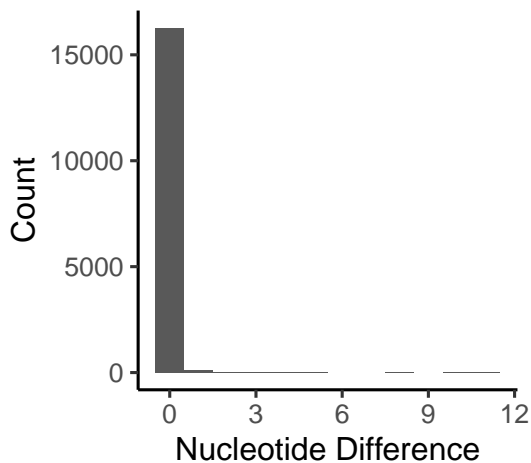
TRBV18*ap01

10532 sequences assigned
10488 (99.6%) exact matches, in which:
10394 unique CDR3
13 unique J



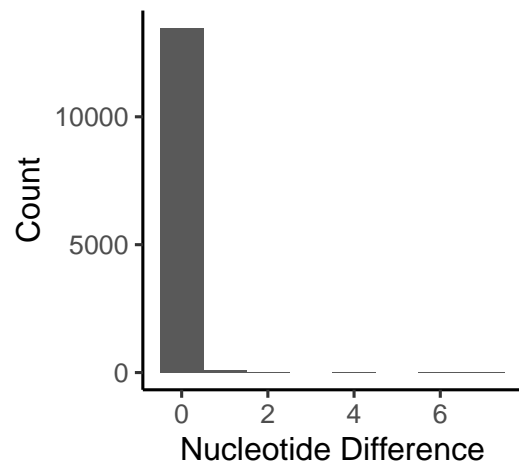
TRBV27*ap01

16430 sequences assigned
16275 (99.1%) exact matches, in which:
16002 unique CDR3
13 unique J



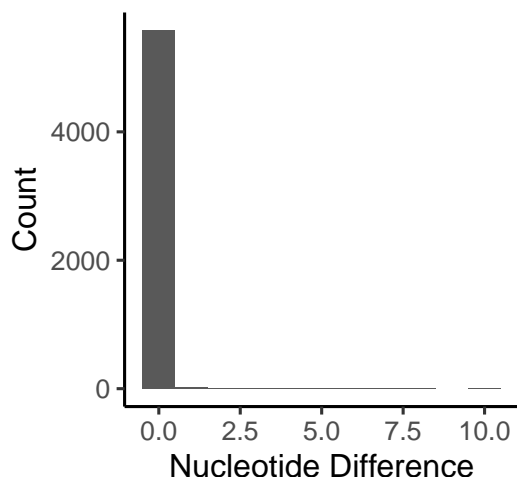
TRBV9*ap01

13593 sequences assigned
13479 (99.2%) exact matches, in which:
13324 unique CDR3
13 unique J



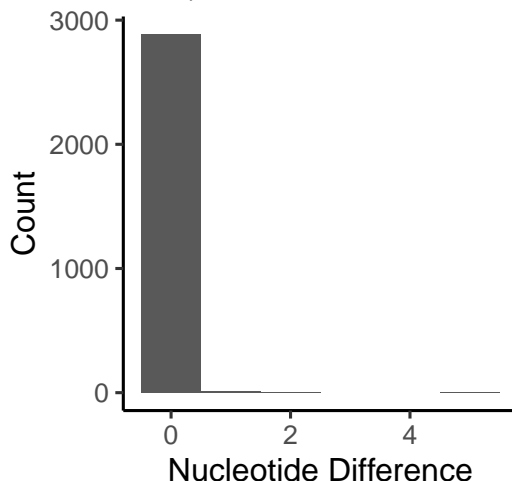
TRBV21-1*ap01

5639 sequences assigned
5580 (99%) exact matches, in which:
5540 unique CDR3
13 unique J



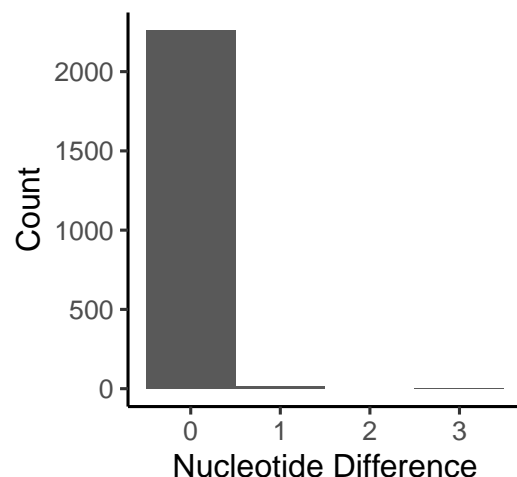
TRBV11-3*ap01

2900 sequences assigned
2885 (99.5%) exact matches, in which:
2870 unique CDR3
13 unique J



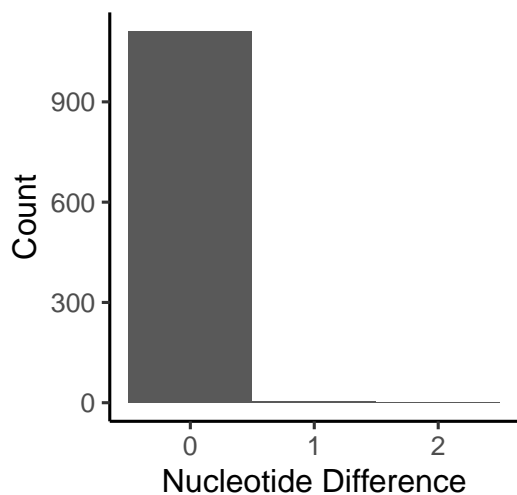
TRBV12-5*ap01

2276 sequences assigned
2260 (99.3%) exact matches, in which:
2230 unique CDR3
13 unique J



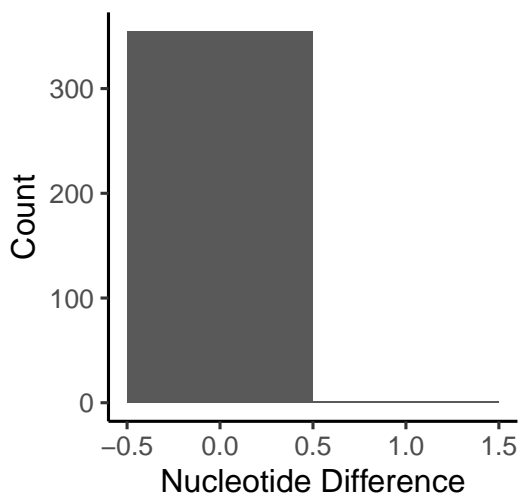
TRBV11-1*ap01

1116 sequences assigned
1112 (99.6%) exact matches, in which:
1108 unique CDR3
13 unique J



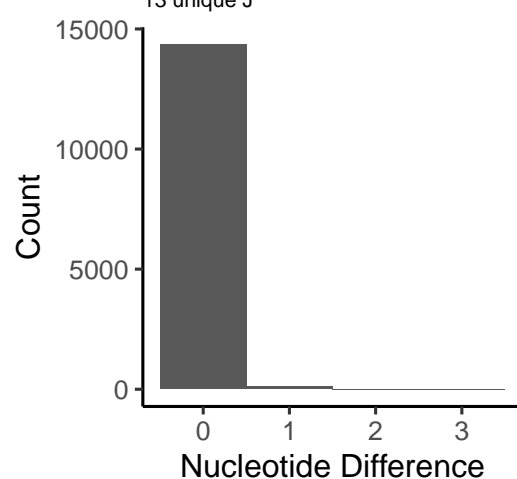
TRBV12-1*ap01

356 sequences assigned
355 (99.7%) exact matches, in which:
350 unique CDR3
13 unique J



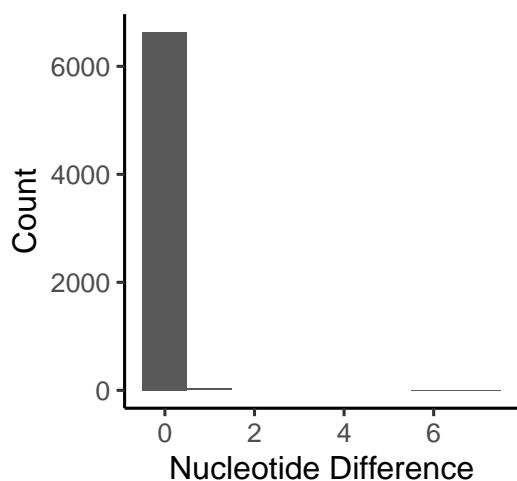
TRBV12-34*ap01

14476 sequences assigned
14354 (99.2%) exact matches, in which:
14102 unique CDR3
13 unique J



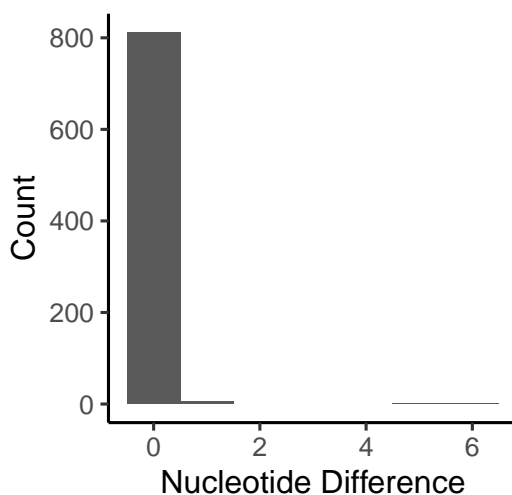
TRBV11-2*ap01

6668 sequences assigned
6635 (99.5%) exact matches, in which:
6579 unique CDR3
13 unique J



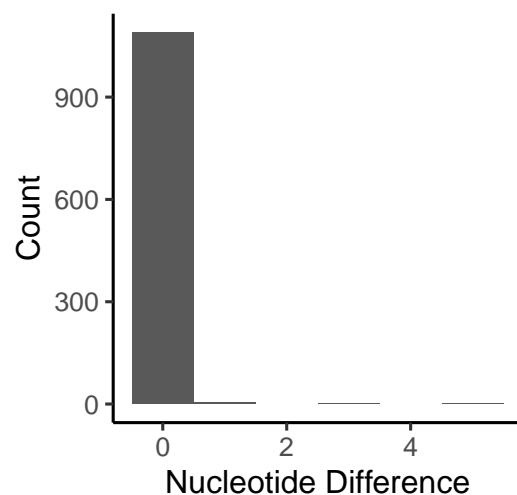
TRBV12-2*ap01

820 sequences assigned
812 (99%) exact matches, in which:
795 unique CDR3
13 unique J



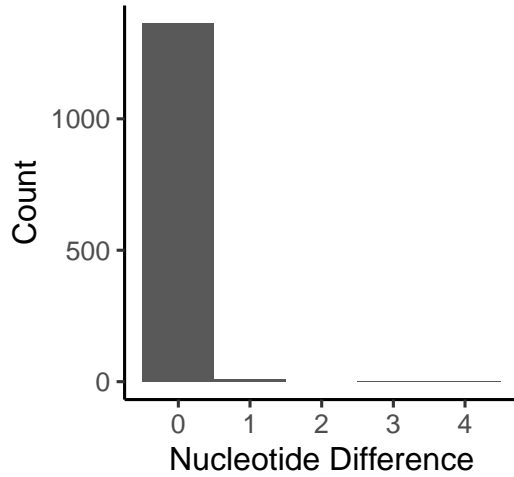
TRBV23-1*ap01

1098 sequences assigned
1090 (99.3%) exact matches, in which:
1081 unique CDR3
13 unique J



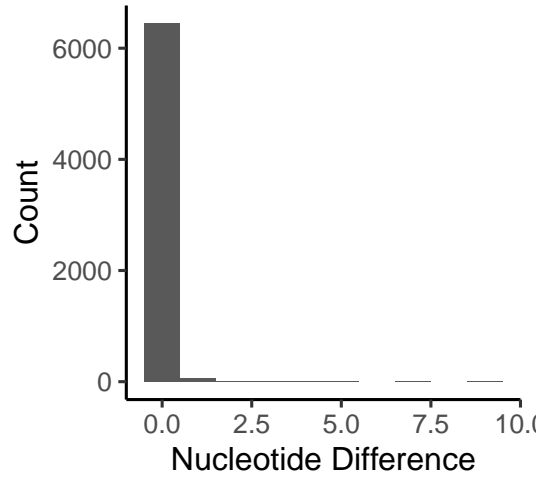
TRBV23-1*ap01_T304C

1375 sequences assigned
1363 (99.1%) exact matches, in which:
1337 unique CDR3
13 unique J



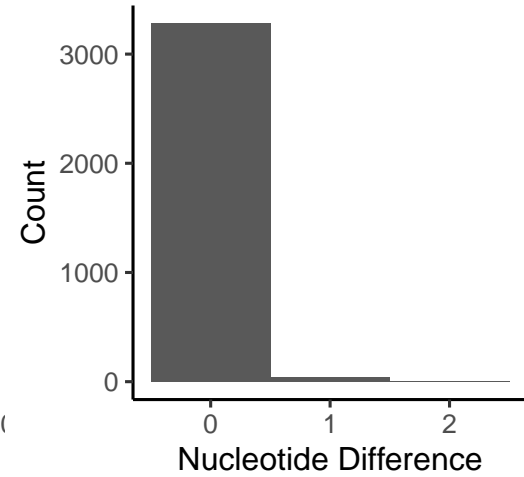
TRBV24-1*ap01

6531 sequences assigned
6446 (98.7%) exact matches, in which:
6330 unique CDR3
13 unique J



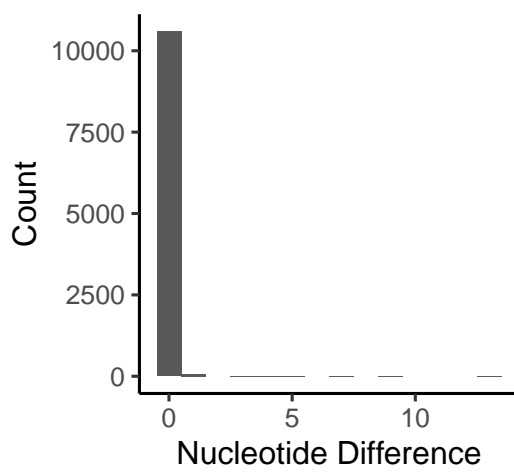
TRBV25-1*ap01

3328 sequences assigned
3281 (98.6%) exact matches, in which:
3214 unique CDR3
13 unique J



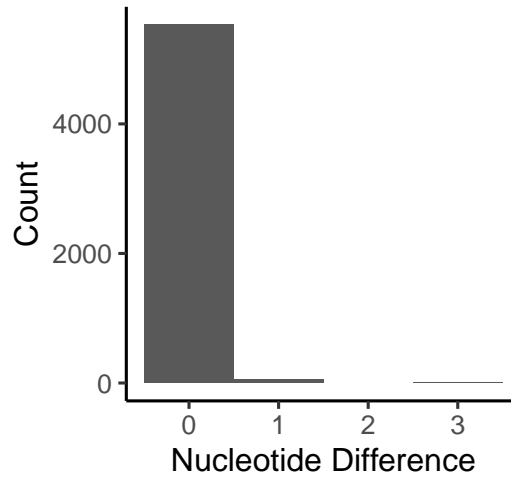
TRBV3-12*ap01

10675 sequences assigned
10593 (99.2%) exact matches, in which:
10500 unique CDR3
13 unique J



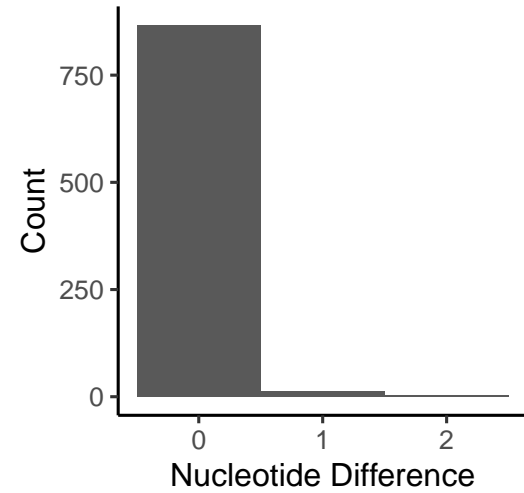
TRBV4-2*ap01

5590 sequences assigned
5531 (98.9%) exact matches, in which:
5427 unique CDR3
13 unique J



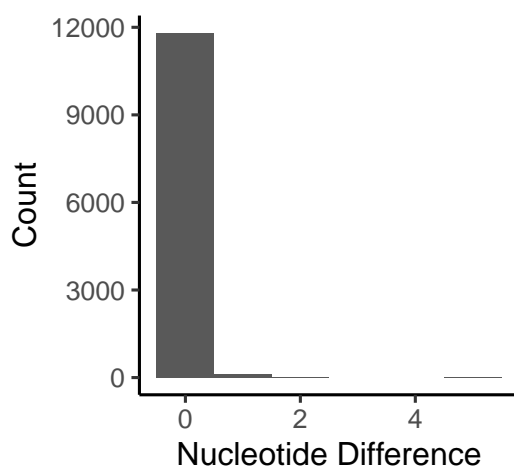
TRBV5-3*ap01

882 sequences assigned
867 (98.3%) exact matches, in which:
854 unique CDR3
13 unique J



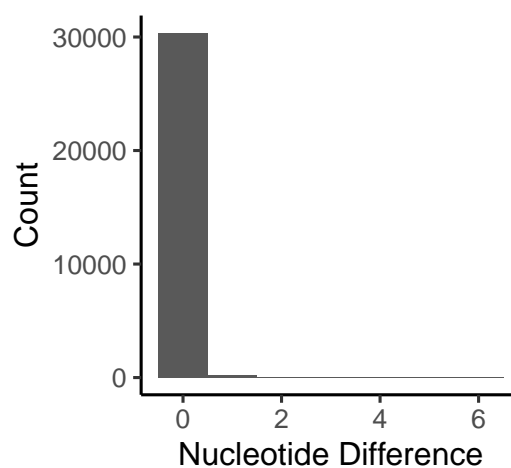
TRBV4-1*ap01

11926 sequences assigned
11812 (99%) exact matches, in which:
11569 unique CDR3
13 unique J



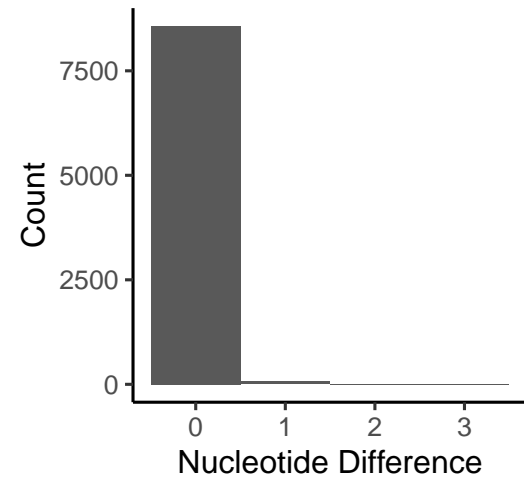
TRBV5-1*ap01

30631 sequences assigned
30372 (99.2%) exact matches, in which:
29756 unique CDR3
13 unique J



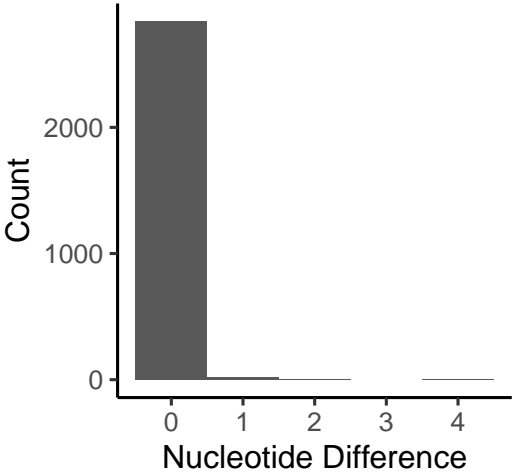
TRBV5-4*ap01

8645 sequences assigned
8571 (99.1%) exact matches, in which:
8401 unique CDR3
13 unique J



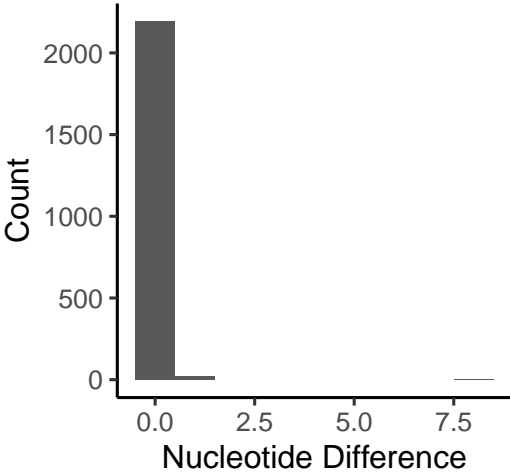
TRBV5-5*ap01

2866 sequences assigned
2840 (99.1%) exact matches, in which:
2821 unique CDR3
13 unique J



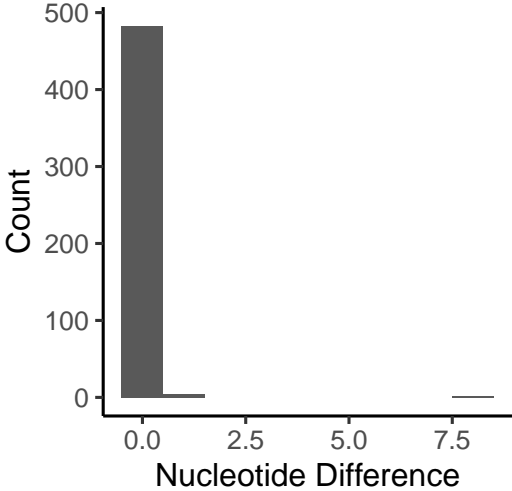
TRBV5-8*ap01

2214 sequences assigned
2193 (99.1%) exact matches, in which:
2171 unique CDR3
13 unique J



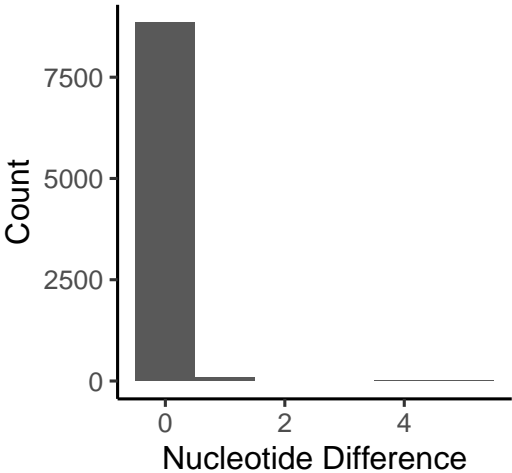
TRBV6-7*ap01

489 sequences assigned
483 (98.8%) exact matches, in which:
477 unique CDR3
13 unique J



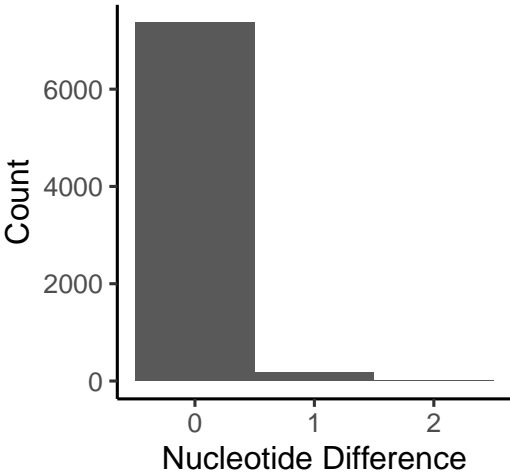
TRBV5-6*ap01

8936 sequences assigned
8845 (99%) exact matches, in which:
8591 unique CDR3
13 unique J



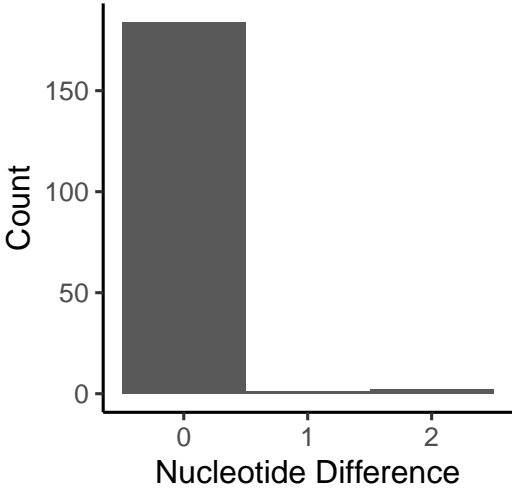
TRBV6-1*ap01

7547 sequences assigned
7366 (97.6%) exact matches, in which:
7211 unique CDR3
13 unique J



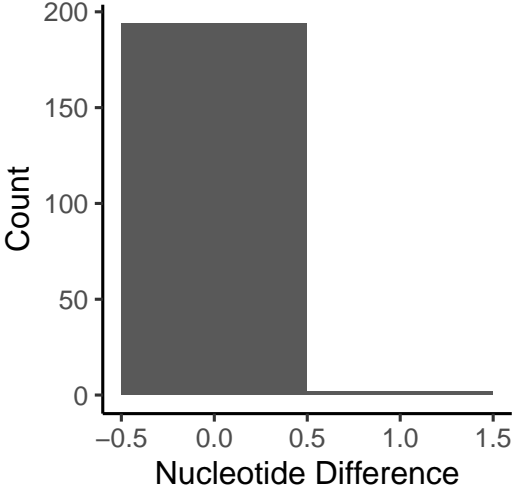
TRBV6-8*ap01

187 sequences assigned
184 (98.4%) exact matches, in which:
177 unique CDR3
13 unique J



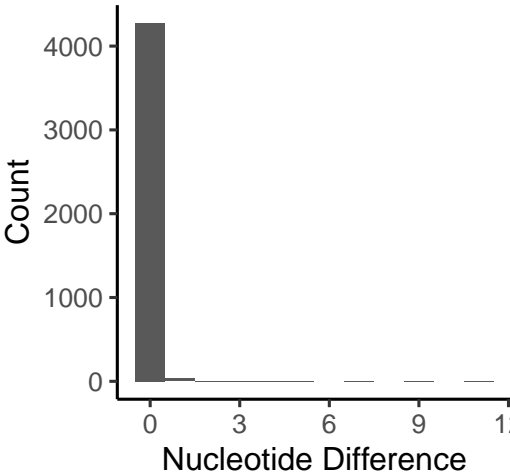
TRBV5-7*ap01

196 sequences assigned
194 (99%) exact matches, in which:
189 unique CDR3
13 unique J



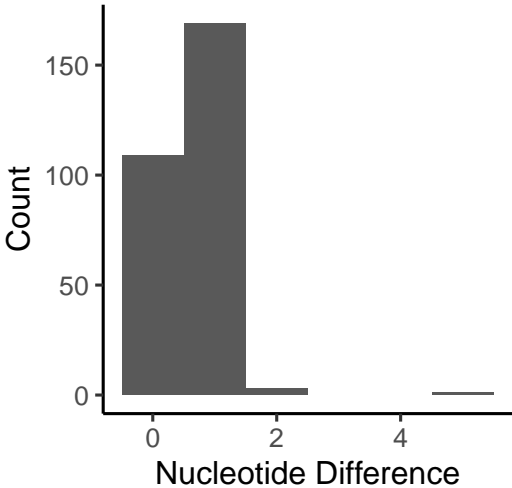
TRBV6-4*ap01

4329 sequences assigned
4275 (98.8%) exact matches, in which:
4229 unique CDR3
13 unique J



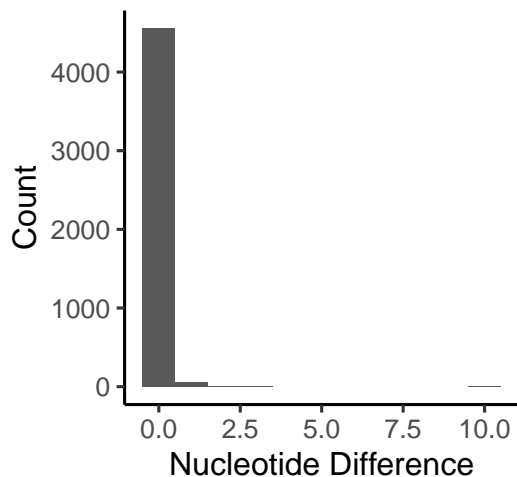
TRBV6-9*ap01

282 sequences assigned
109 (38.7%) exact matches, in which:
106 unique CDR3
13 unique J



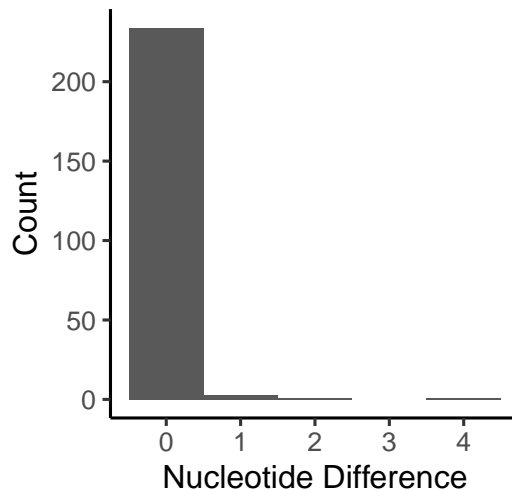
TRBV6-23*ap01

4614 sequences assigned
4555 (98.7%) exact matches, in which:
4453 unique CDR3
13 unique J



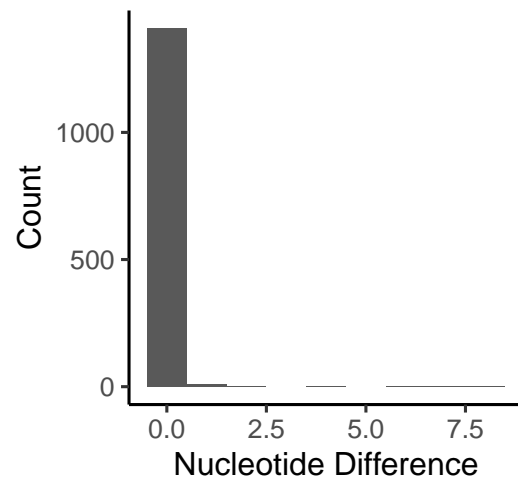
TRBV7-1*ap01_G291C_

239 sequences assigned
234 (97.9%) exact matches, in which:
231 unique CDR3
13 unique J



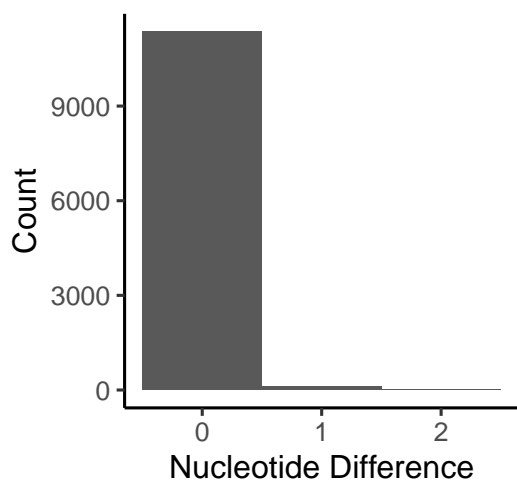
TRBV7-3*ap03

1425 sequences assigned
1409 (98.9%) exact matches, in which:
1389 unique CDR3
13 unique J



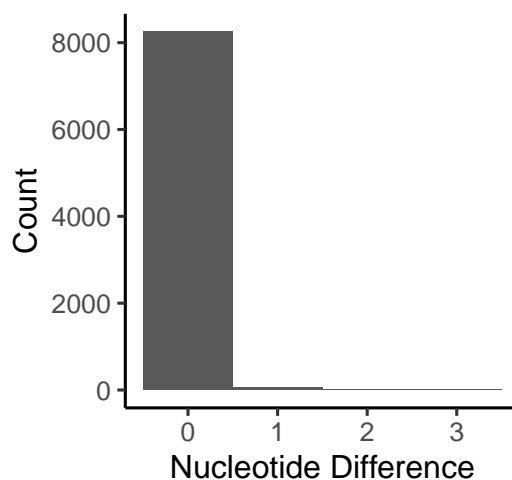
TRBV6-56*ap01

11477 sequences assigned
11357 (99%) exact matches, in which:
11097 unique CDR3
13 unique J



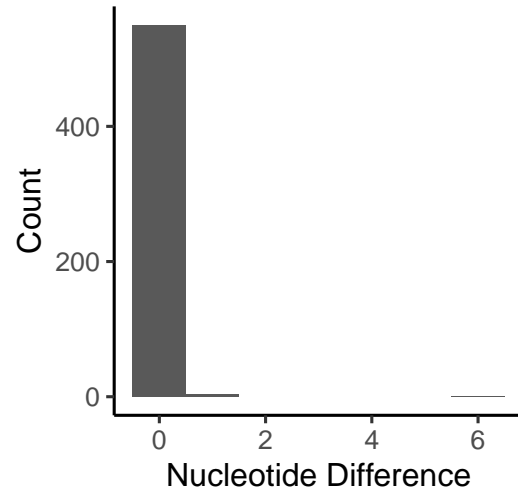
TRBV7-2*ap01

8316 sequences assigned
8252 (99.2%) exact matches, in which:
8128 unique CDR3
13 unique J



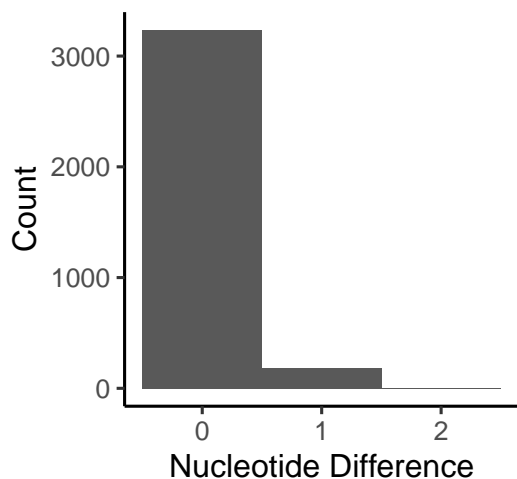
TRBV7-4*ap01

555 sequences assigned
550 (99.1%) exact matches, in which:
540 unique CDR3
13 unique J



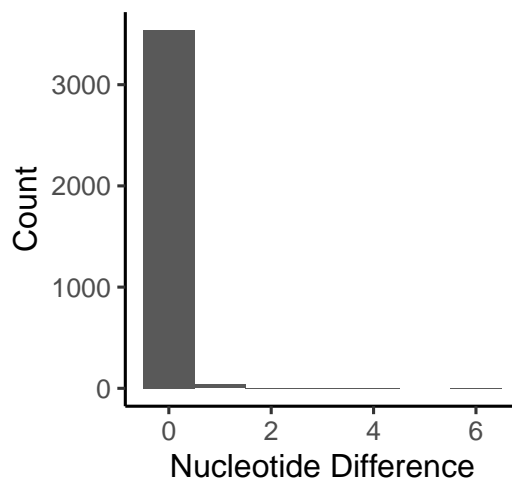
TRBV6-56*ap02

3423 sequences assigned
3235 (94.5%) exact matches, in which:
3156 unique CDR3
13 unique J



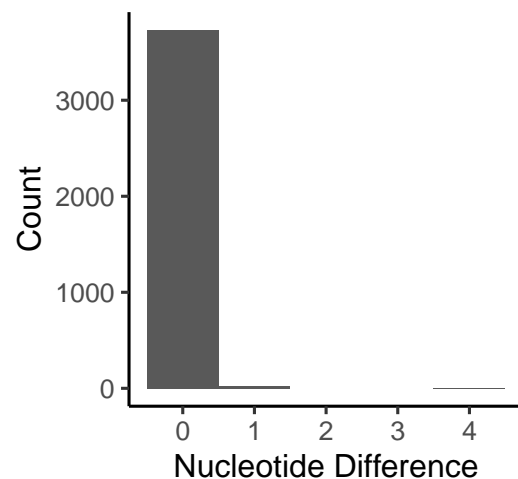
TRBV7-3*ap01

3581 sequences assigned
3540 (98.9%) exact matches, in which:
3502 unique CDR3
13 unique J



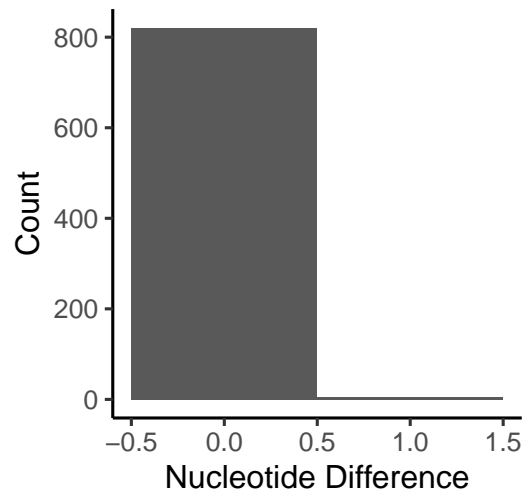
TRBV7-6*ap01

3753 sequences assigned
3731 (99.4%) exact matches, in which:
3665 unique CDR3
14 unique J



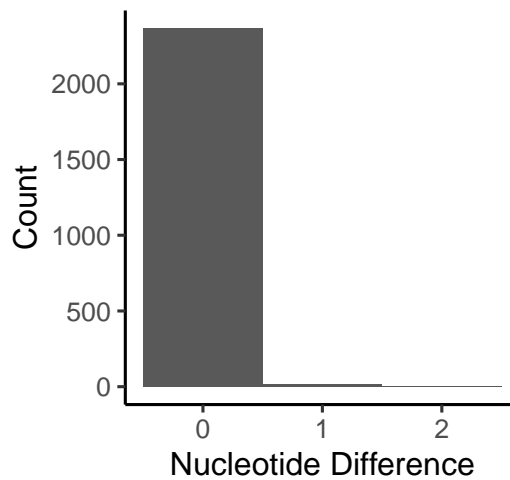
TRBV7-7*ap01

826 sequences assigned
821 (99.4%) exact matches, in which:
807 unique CDR3
13 unique J



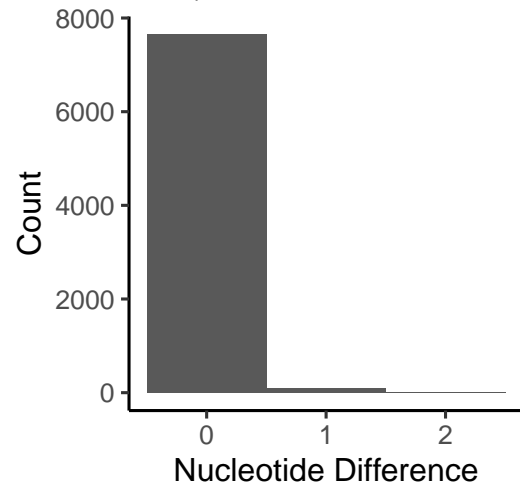
TRBV7-8*ap02

2385 sequences assigned
2366 (99.2%) exact matches, in which:
2339 unique CDR3
13 unique J



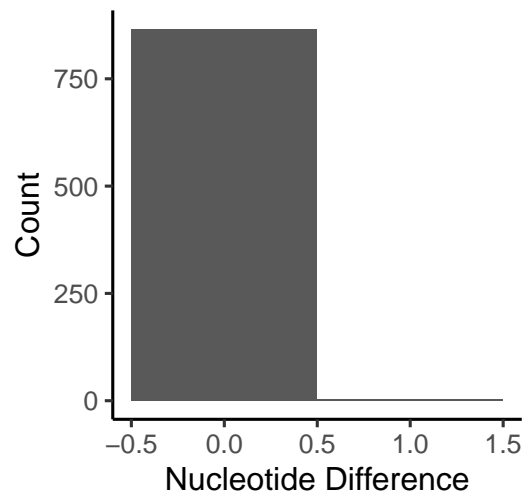
TRBV29-1*ap01

7746 sequences assigned
7650 (98.8%) exact matches, in which:
7444 unique CDR3
13 unique J



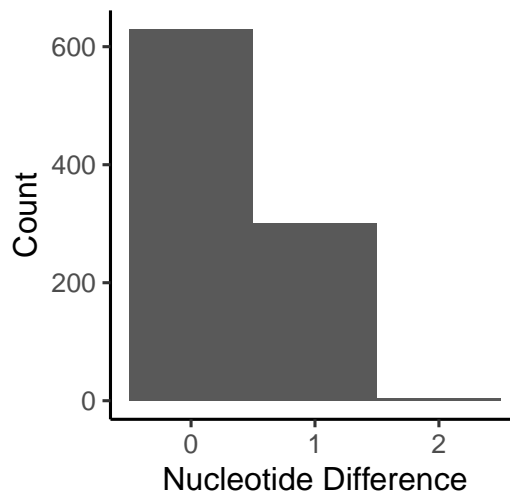
TRBV7-7*ap01_C315T

870 sequences assigned
866 (99.5%) exact matches, in which:
856 unique CDR3
13 unique J



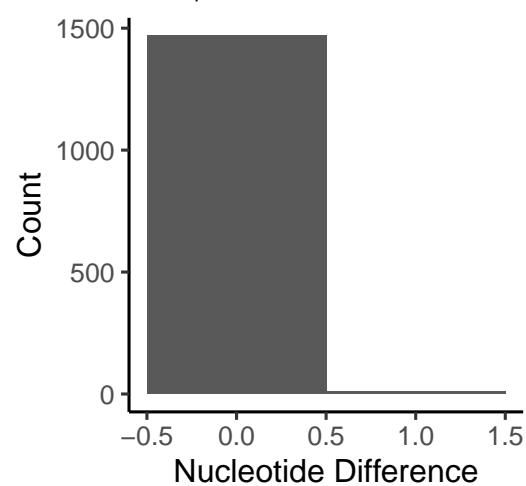
TRBV7-8*ap03

935 sequences assigned
630 (67.4%) exact matches, in which:
619 unique CDR3
13 unique J



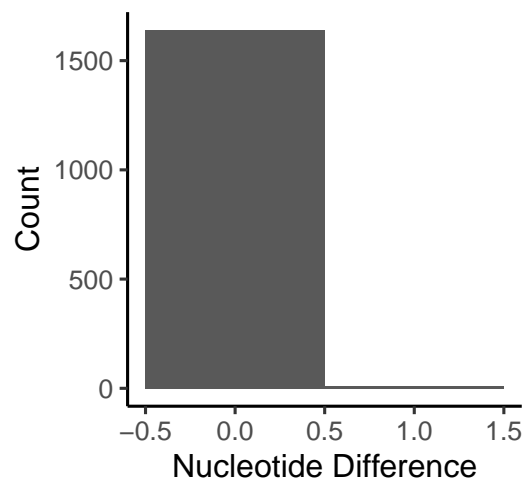
TRBV29-1*ap02

1481 sequences assigned
1469 (99.2%) exact matches, in which:
1421 unique CDR3
13 unique J



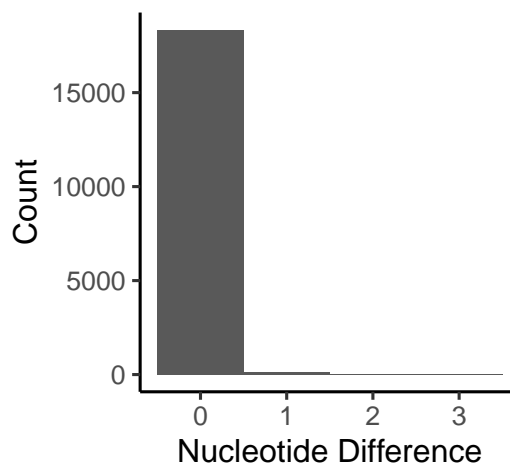
TRBV7-8*ap01

1650 sequences assigned
1640 (99.4%) exact matches, in which:
1609 unique CDR3
13 unique J

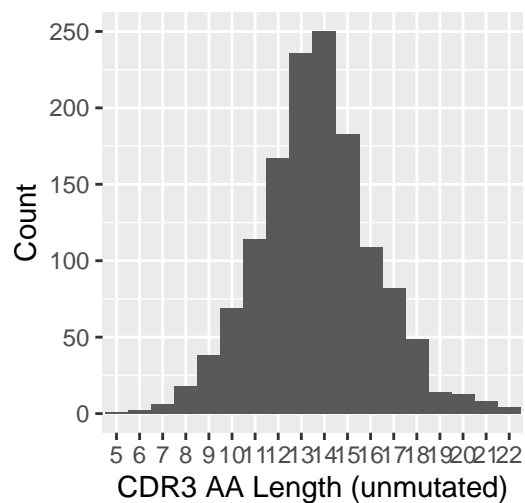


TRBV7-9*ap01

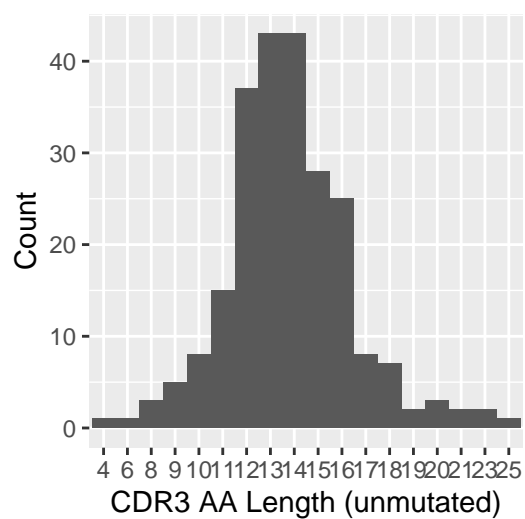
18475 sequences assigned
18343 (99.3%) exact matches, in which:
18076 unique CDR3
13 unique J



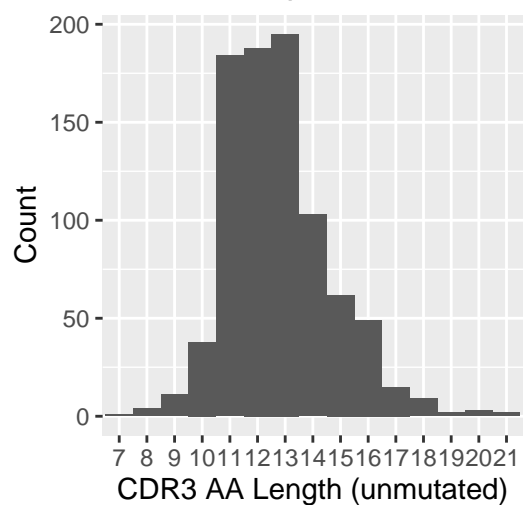
TRBV23-1*ap01_T304C



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]