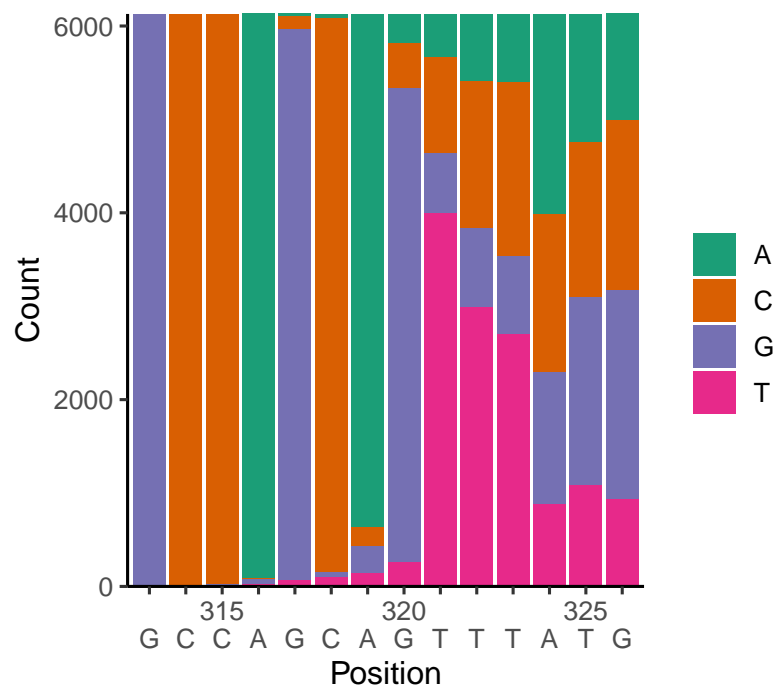
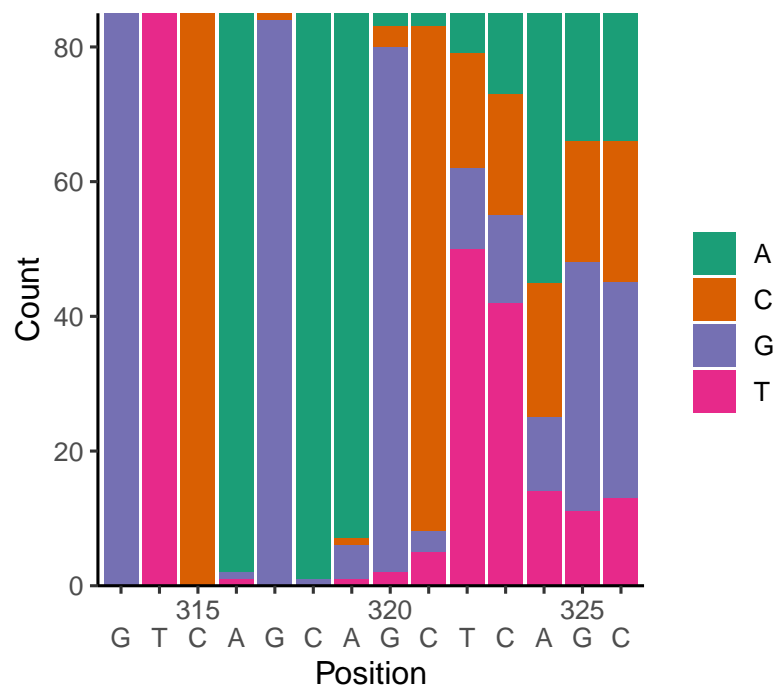


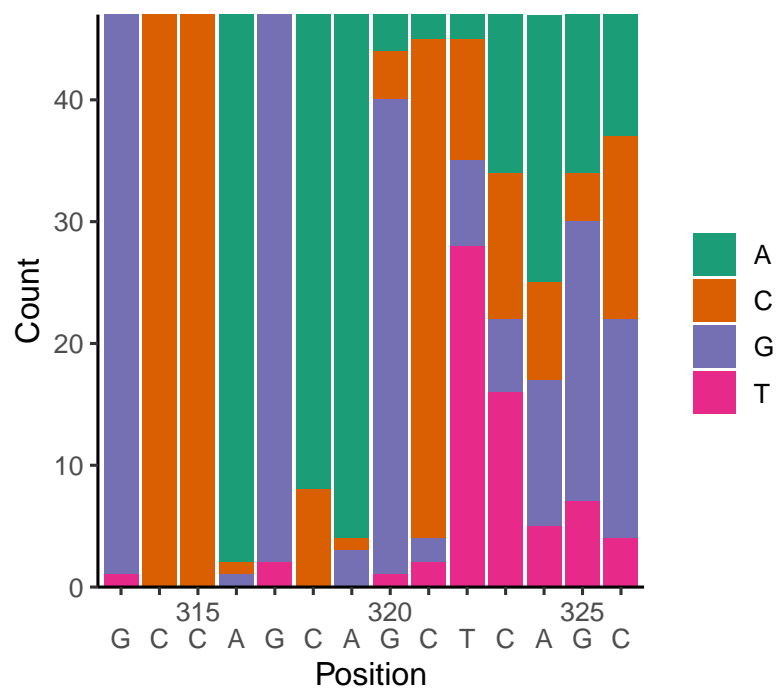
Gene TRBV28*ap01_A297G



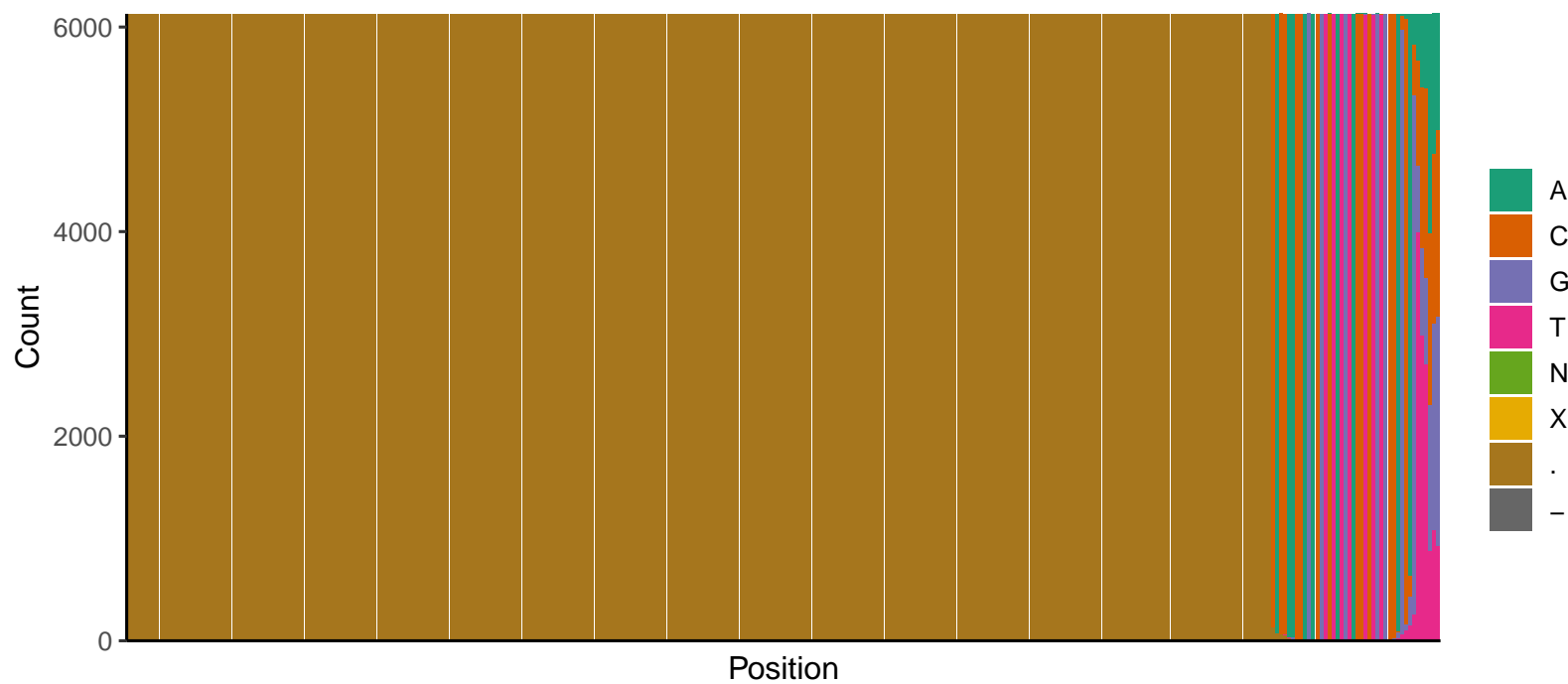
Gene TRBV7-1*ap01_G291C_T296C_C314T



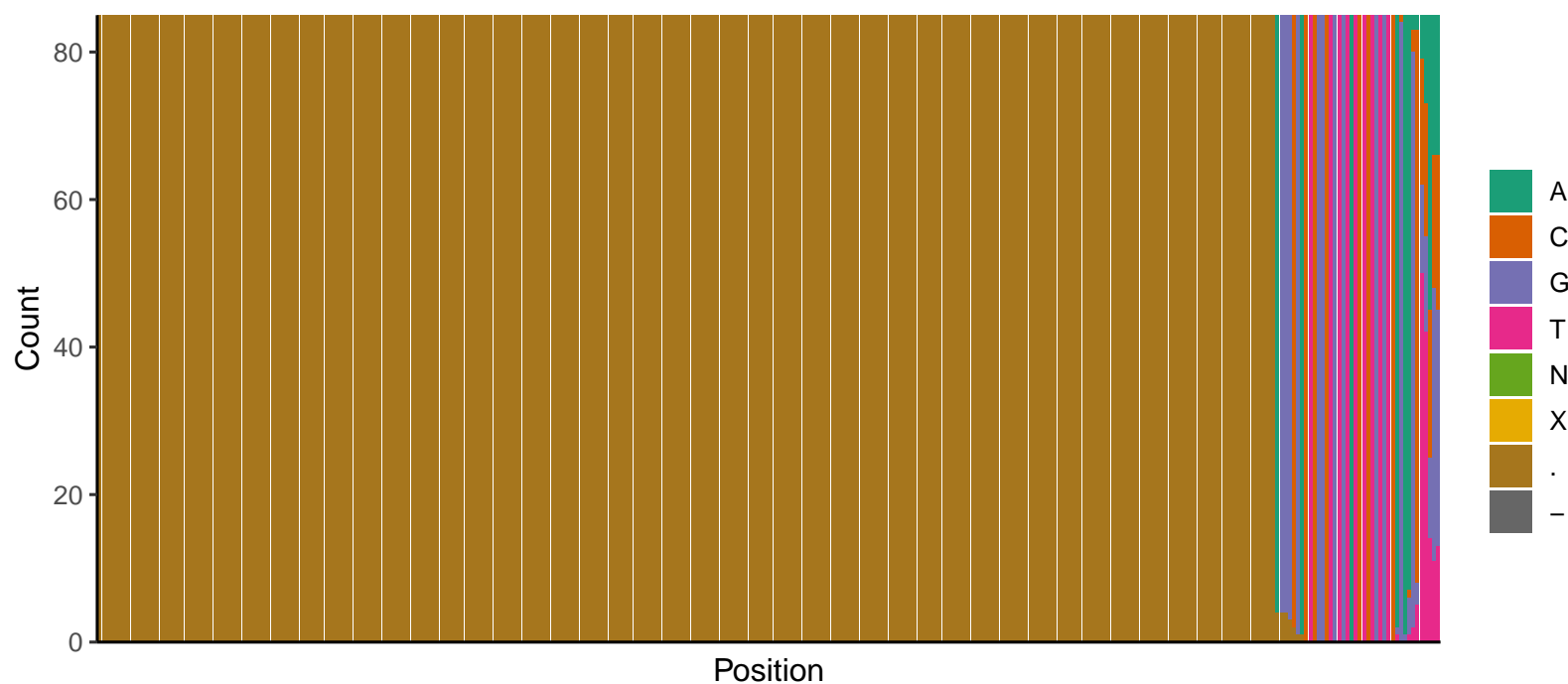
Gene TRBV7-1*ap01_G291C_T296C



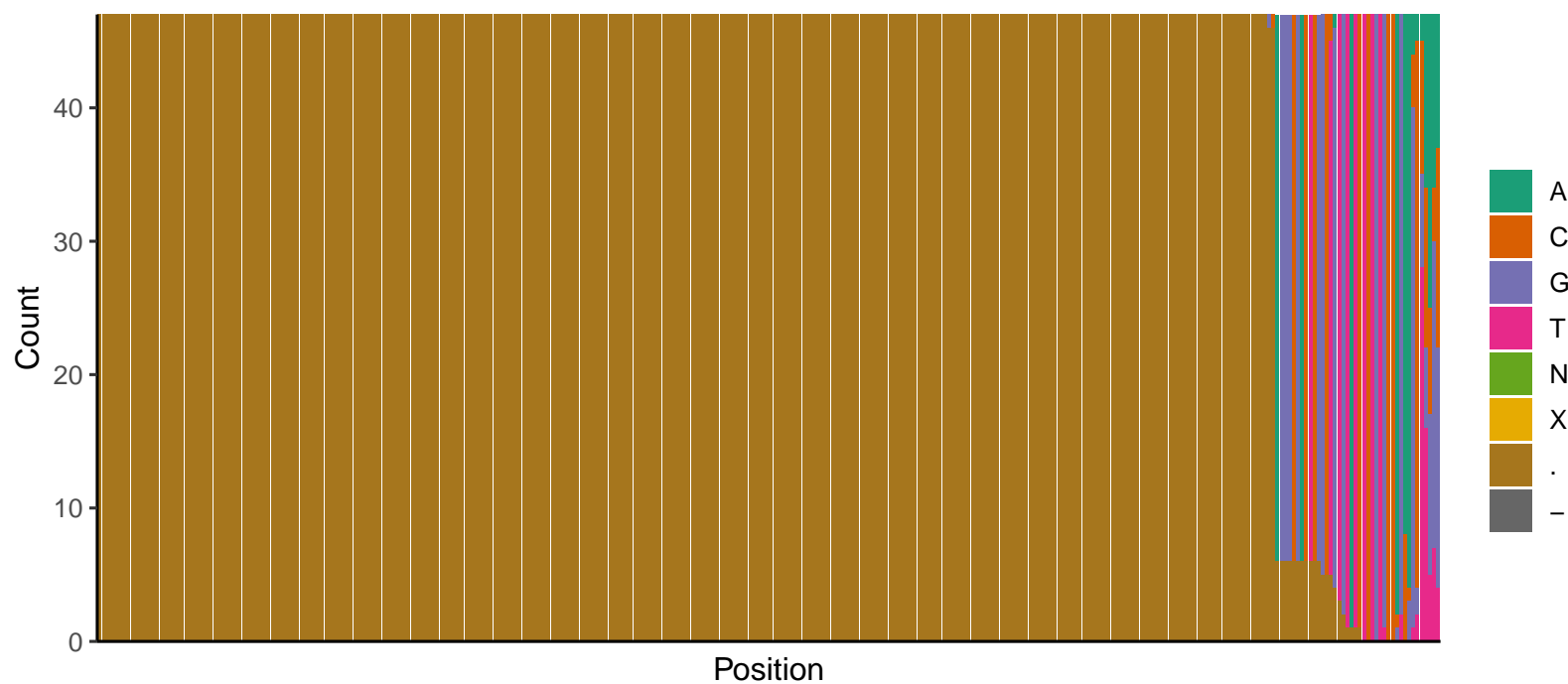
Gene TRBV28*ap01_A297G



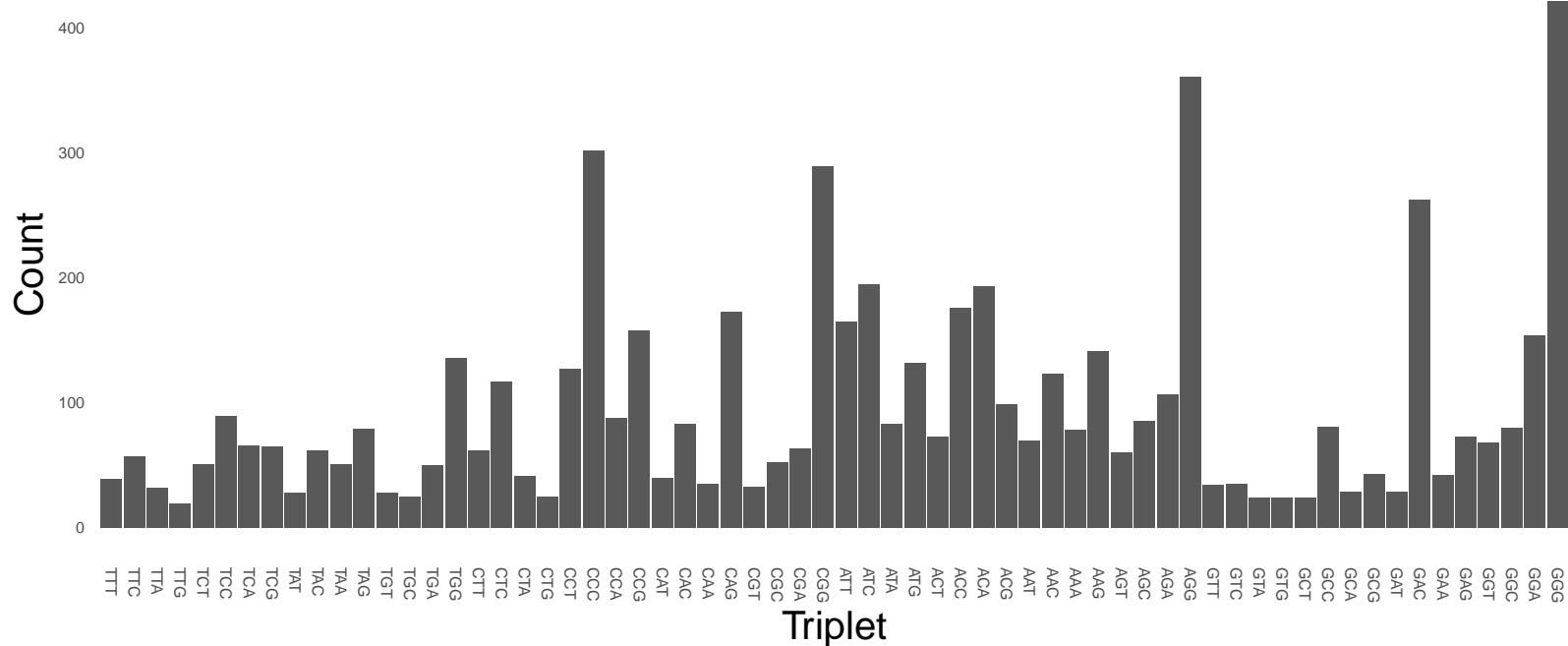
Gene TRBV7-1*ap01_G291C_T296C_C314T



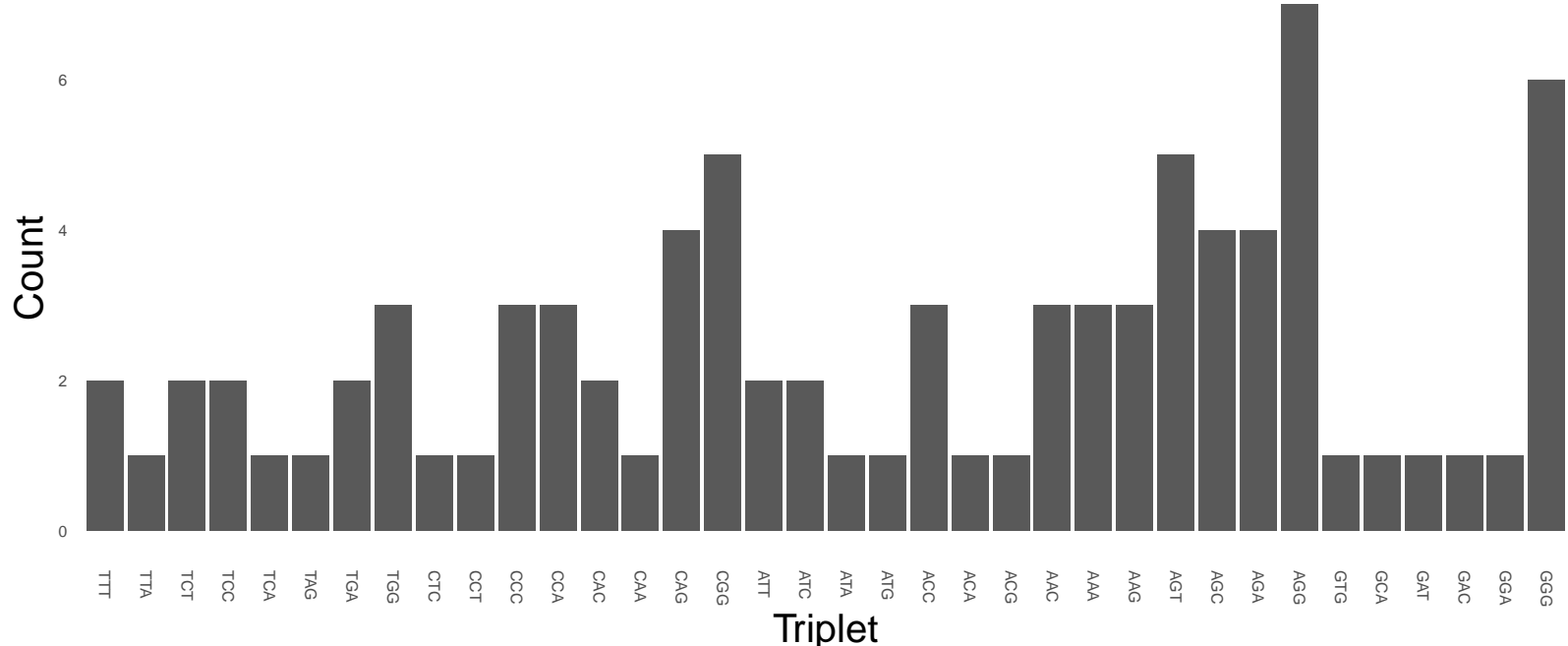
Gene TRBV7-1*ap01_G291C_T296C



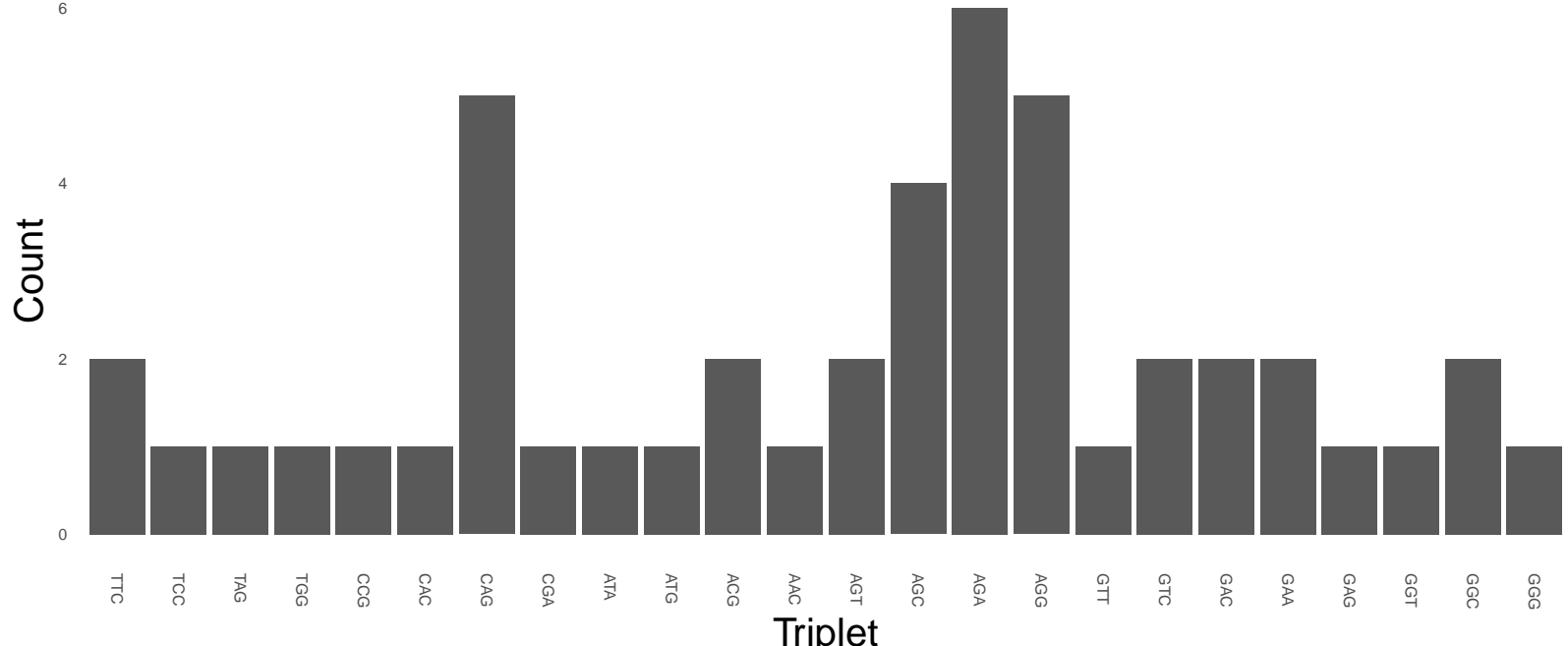
TRBV28*ap01_A297G– Final 3 nucleotides as a triplet



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

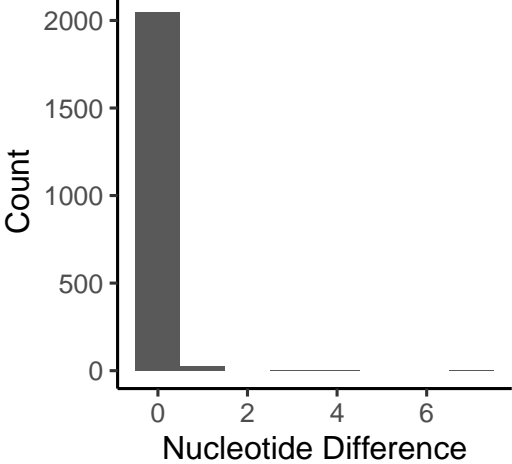


TRBV7-1*ap01_G291C_T296C– Final 3 nucleotides as a triplet



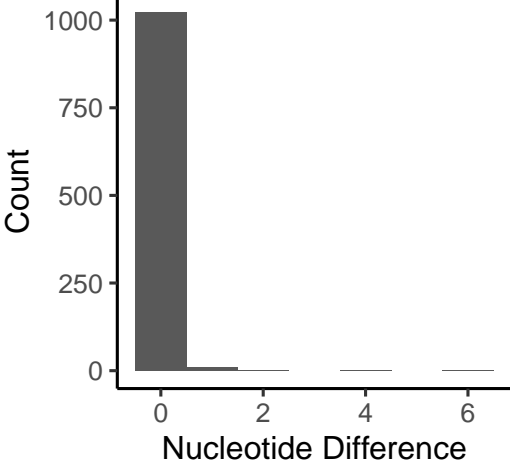
TRBV10-1*ap01

2073 sequences assigned
2046 (98.7%) exact matches, in which:
2001 unique CDR3
13 unique J



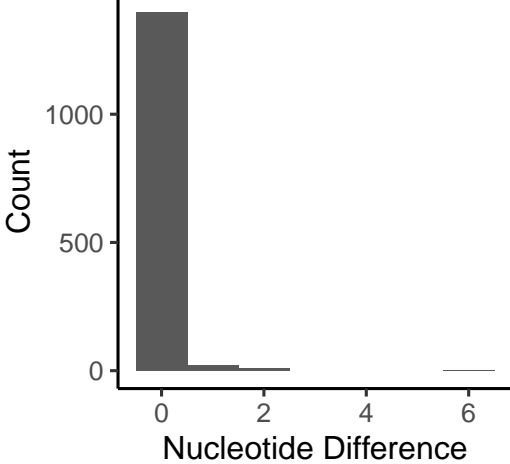
TRBV10-2*ap01

1036 sequences assigned
1022 (98.6%) exact matches, in which:
1000 unique CDR3
13 unique J



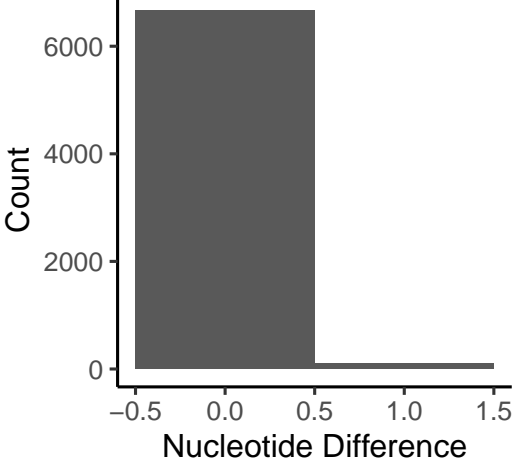
TRBV13*ap01

1431 sequences assigned
1397 (97.6%) exact matches, in which:
1363 unique CDR3
13 unique J



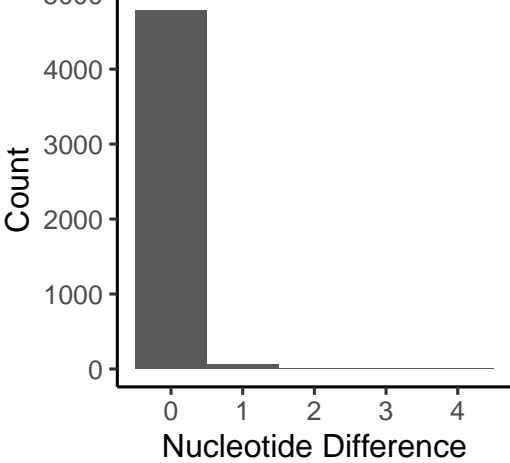
TRBV20-1*ap01

6756 sequences assigned
6660 (98.6%) exact matches, in which:
6568 unique CDR3
13 unique J



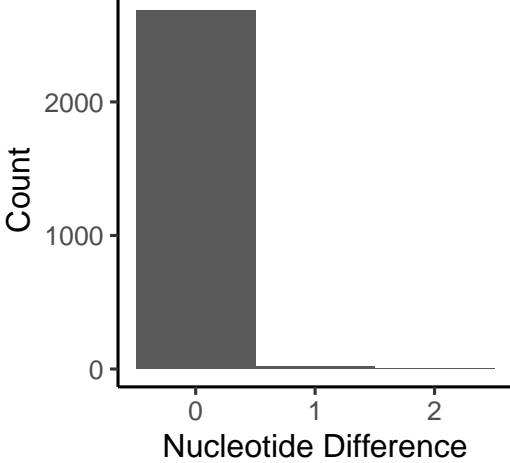
TRBV10-3*ap01

4848 sequences assigned
4779 (98.6%) exact matches, in which:
4703 unique CDR3
13 unique J



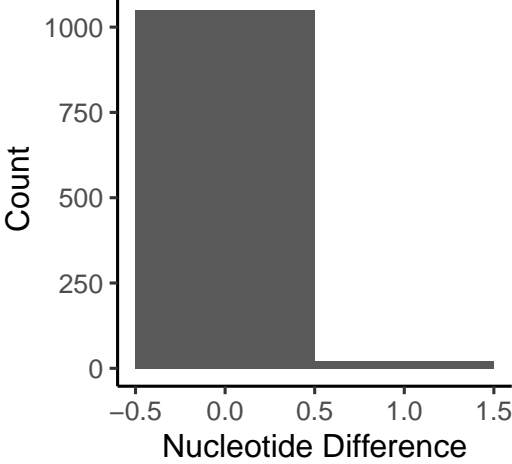
TRBV14*ap01

2705 sequences assigned
2683 (99.2%) exact matches, in which:
2649 unique CDR3
13 unique J



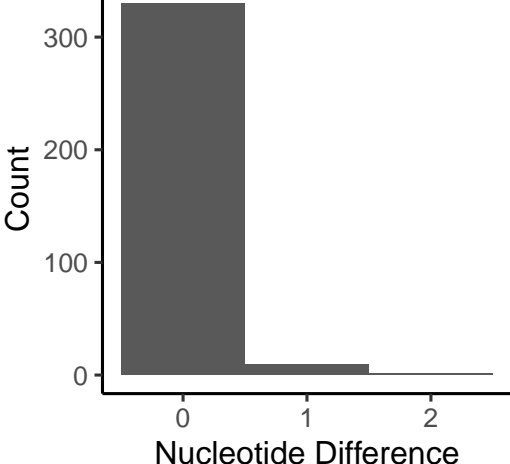
TRBV20-1*ap02

1071 sequences assigned
1050 (98%) exact matches, in which:
1038 unique CDR3
13 unique J



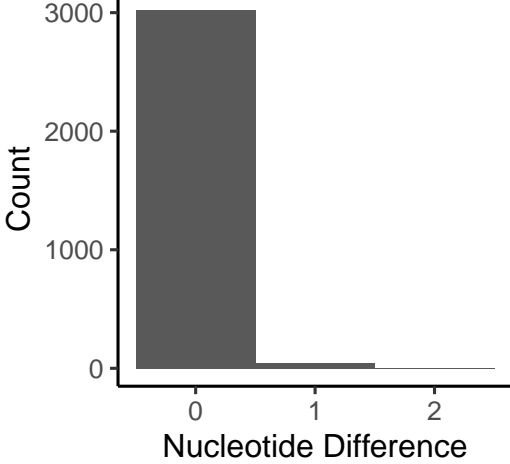
TRBV1*ap01

340 sequences assigned
330 (97.1%) exact matches, in which:
324 unique CDR3
13 unique J



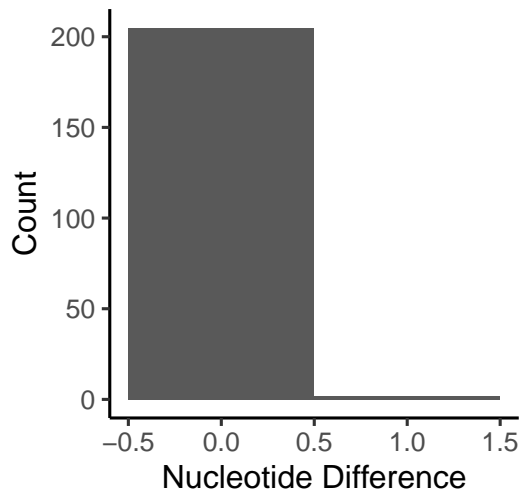
TRBV15*ap02

3069 sequences assigned
3022 (98.5%) exact matches, in which:
2976 unique CDR3
13 unique J



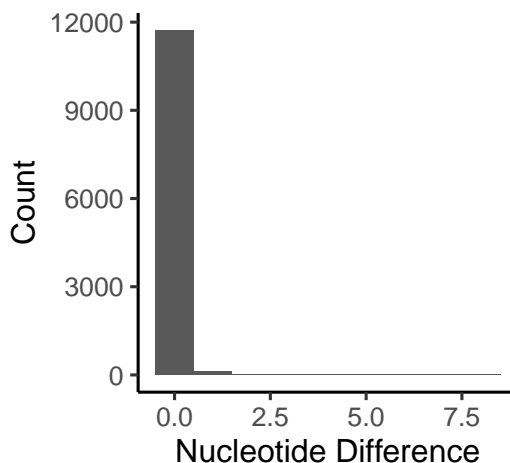
TRBV16*ap01

207 sequences assigned
205 (99%) exact matches, in which:
201 unique CDR3
13 unique J



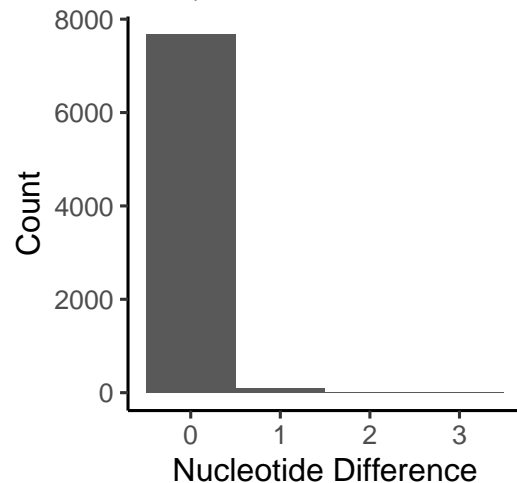
TRBV19*ap01

11869 sequences assigned
11727 (98.8%) exact matches, in which:
11633 unique CDR3
13 unique J



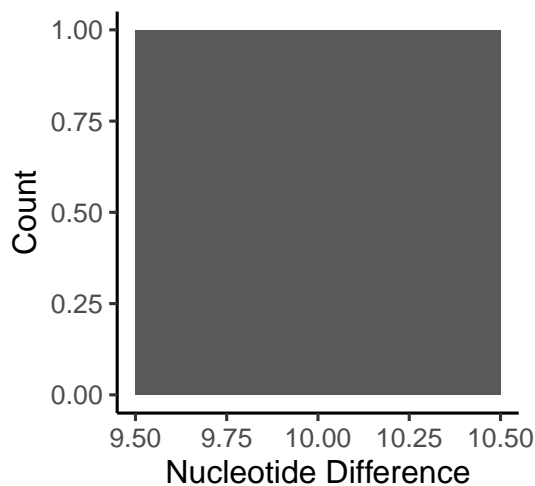
TRBV28*ap01

7774 sequences assigned
7674 (98.7%) exact matches, in which:
7582 unique CDR3
13 unique J



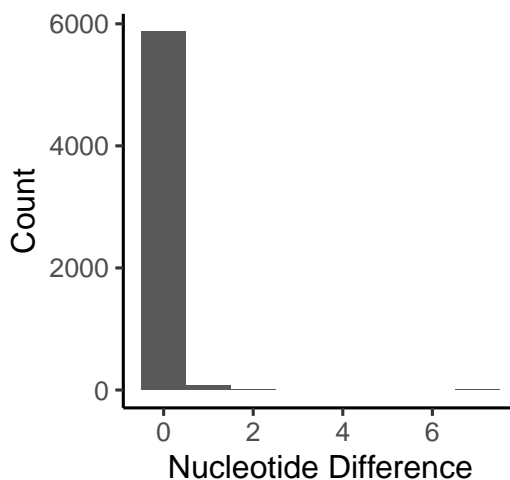
TRBV17*ap01

1 sequences assigned
No exact matches.



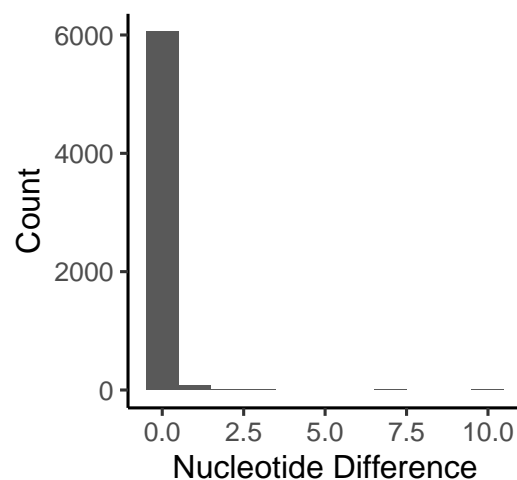
TRBV2*ap01

5952 sequences assigned
5870 (98.6%) exact matches, in which:
5749 unique CDR3
13 unique J



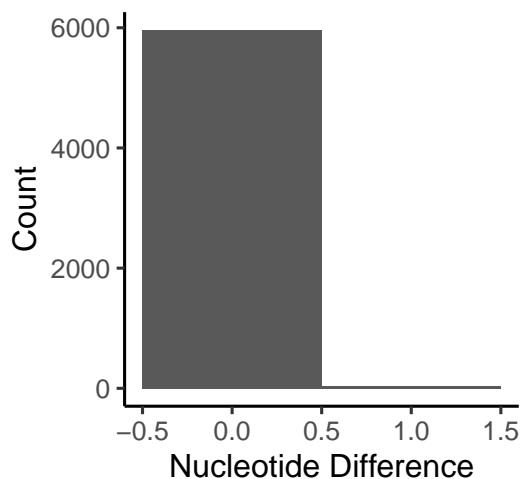
TRBV28*ap01_A297G

6129 sequences assigned
6055 (98.8%) exact matches, in which:
6003 unique CDR3
13 unique J



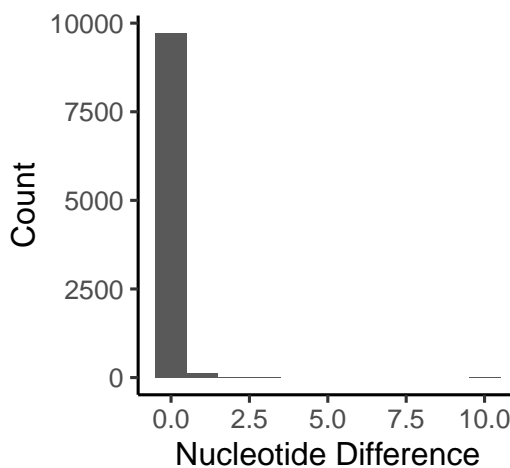
TRBV18*ap01

6004 sequences assigned
5962 (99.3%) exact matches, in which:
5910 unique CDR3
13 unique J



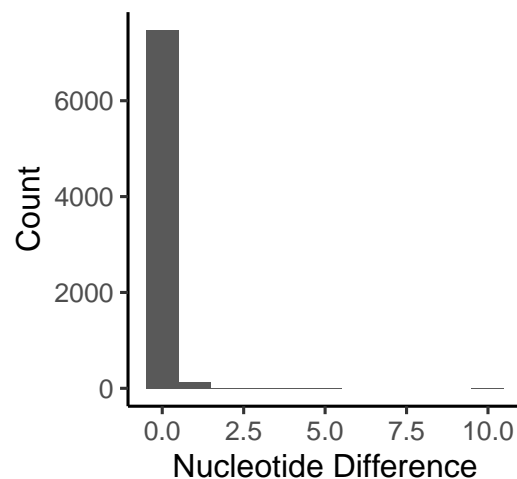
TRBV27*ap01

9859 sequences assigned
9728 (98.7%) exact matches, in which:
9566 unique CDR3
13 unique J



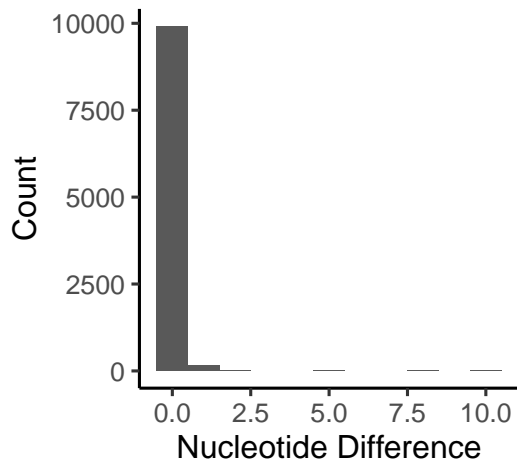
TRBV30*ap01

7619 sequences assigned
7474 (98.1%) exact matches, in which:
7319 unique CDR3
13 unique J



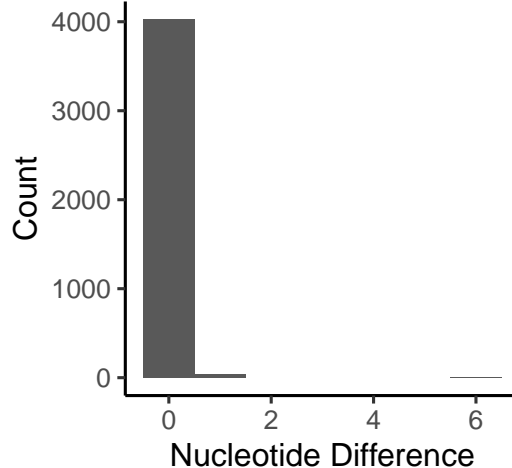
TRBV9*ap01

10089 sequences assigned
9918 (98.3%) exact matches, in which:
9814 unique CDR3
13 unique J



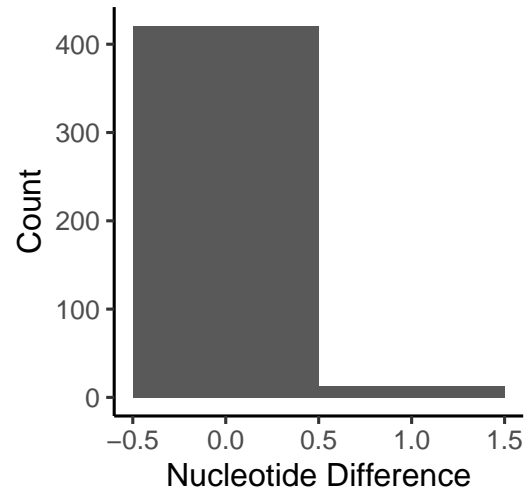
TRBV11-2*ap01

4061 sequences assigned
4026 (99.1%) exact matches, in which:
3962 unique CDR3
13 unique J



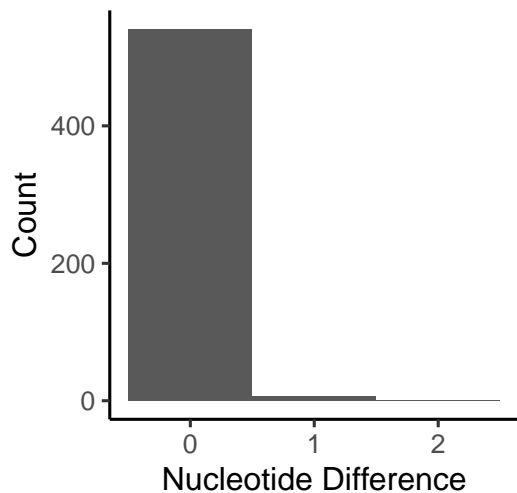
TRBV12-2*ap01

434 sequences assigned
421 (97%) exact matches, in which:
415 unique CDR3
13 unique J



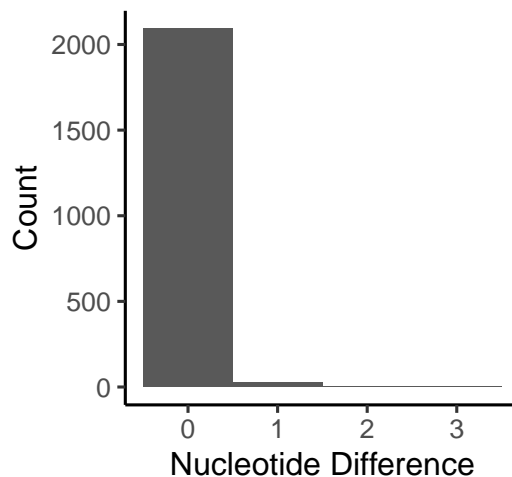
TRBV11-1*ap01

549 sequences assigned
541 (98.5%) exact matches, in which:
531 unique CDR3
13 unique J



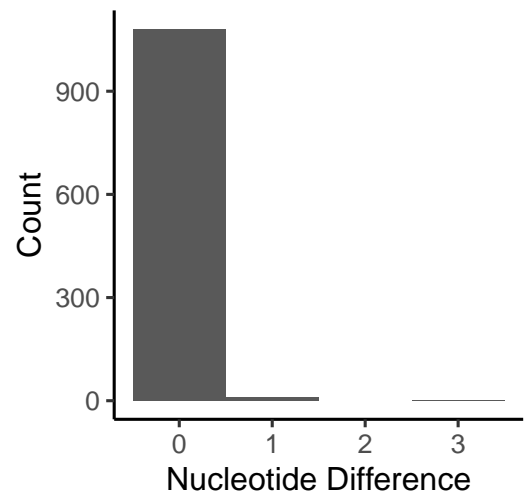
TRBV11-3*ap01

2120 sequences assigned
2092 (98.7%) exact matches, in which:
2064 unique CDR3
13 unique J



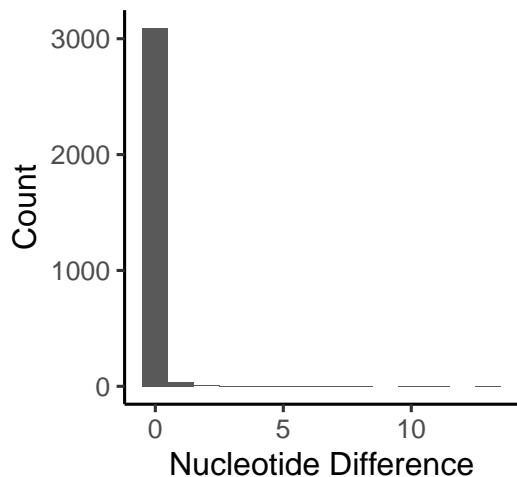
TRBV12-5*ap01

1094 sequences assigned
1081 (98.8%) exact matches, in which:
1069 unique CDR3
13 unique J



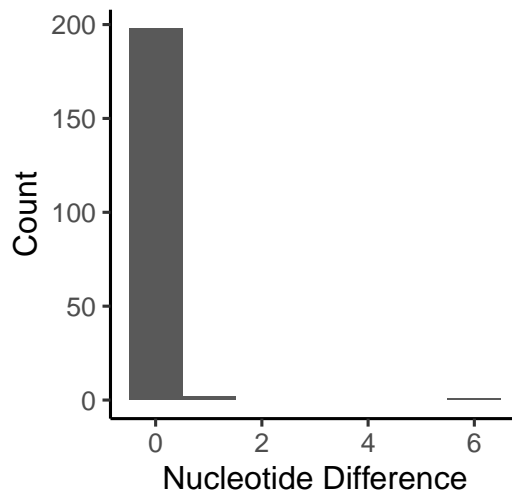
TRBV21-1*ap01

3149 sequences assigned
3092 (98.2%) exact matches, in which:
3072 unique CDR3
13 unique J



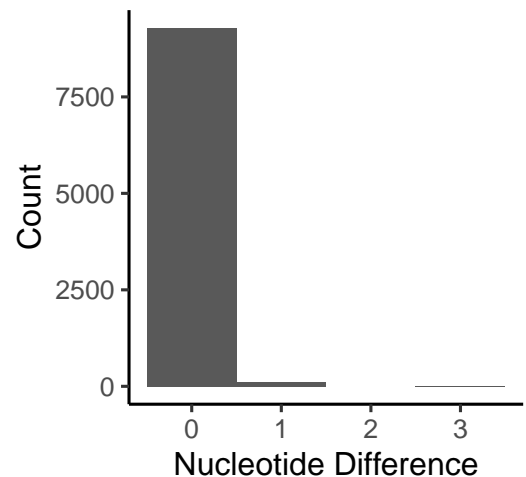
TRBV12-1*ap01

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



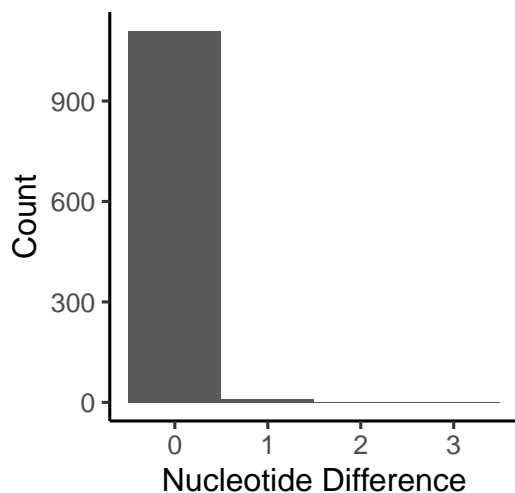
TRBV12-34*ap01

9393 sequences assigned
9284 (98.8%) exact matches, in which:
9140 unique CDR3
13 unique J



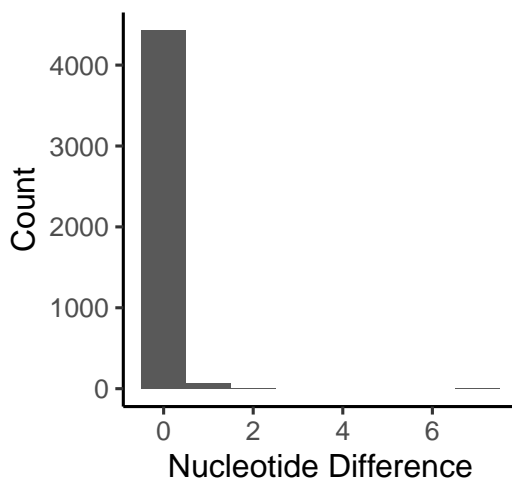
TRBV23-1*ap01

1122 sequences assigned
1110 (98.9%) exact matches, in which:
1094 unique CDR3
13 unique J



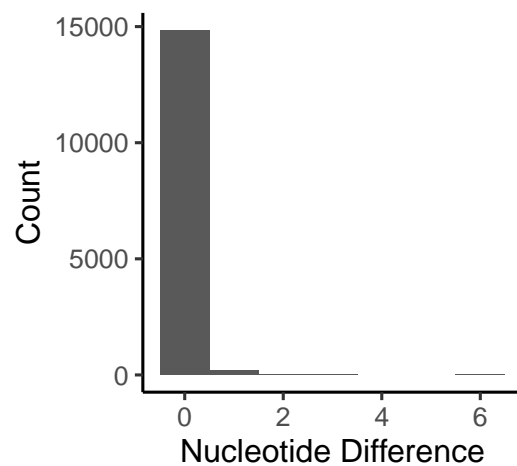
TRBV4-1*ap01

4499 sequences assigned
4429 (98.4%) exact matches, in which:
4334 unique CDR3
13 unique J



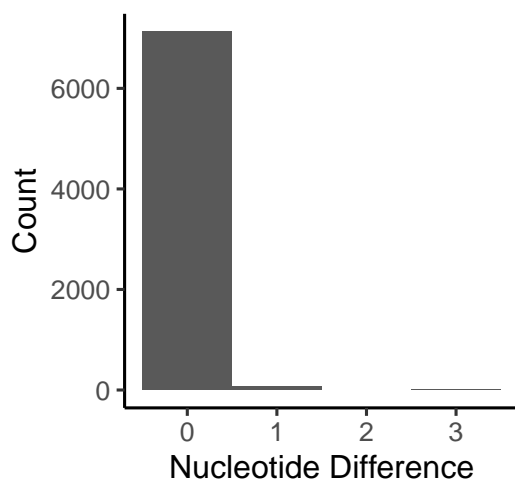
TRBV5-1*ap01

15068 sequences assigned
14847 (98.5%) exact matches, in which:
14560 unique CDR3
14 unique J



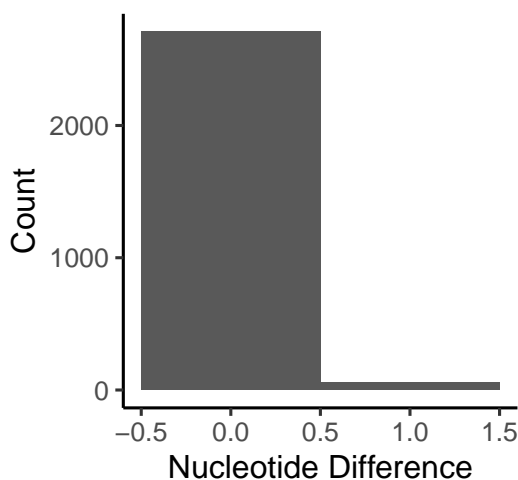
TRBV3-12*ap01

7190 sequences assigned
7127 (99.1%) exact matches, in which:
7049 unique CDR3
13 unique J



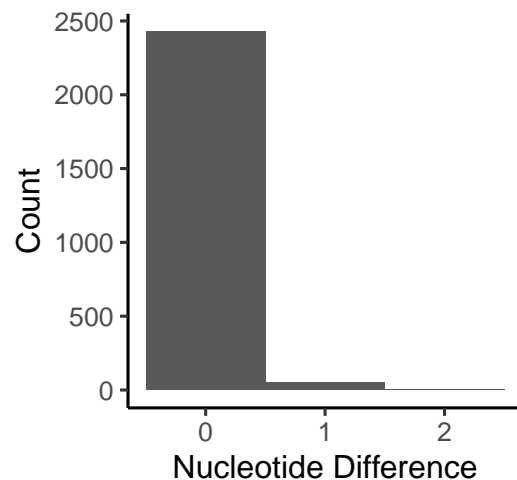
TRBV4-2*ap01

2762 sequences assigned
2709 (98.1%) exact matches, in which:
2666 unique CDR3
13 unique J



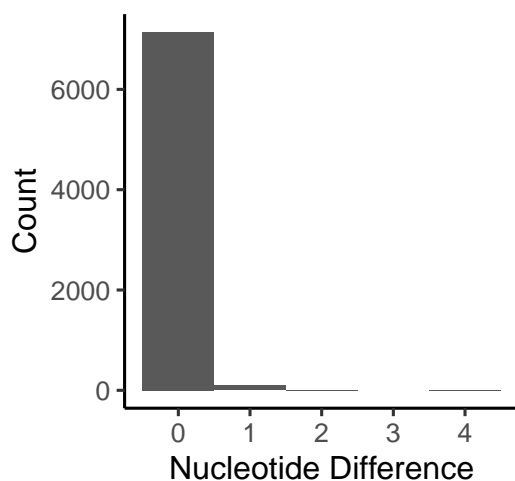
TRBV25-1*ap01

2476 sequences assigned
2427 (98%) exact matches, in which:
2383 unique CDR3
13 unique J



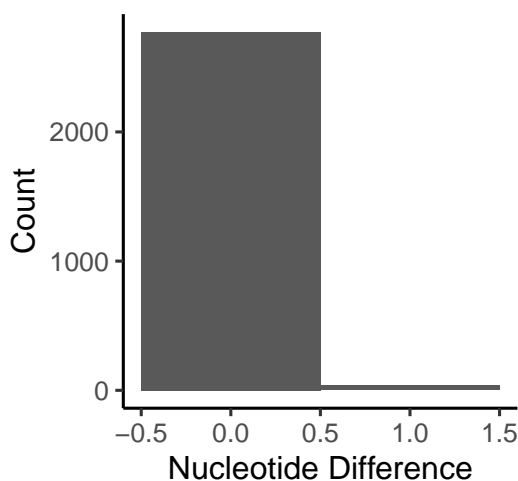
TRBV24-1*ap01

7243 sequences assigned
7143 (98.6%) exact matches, in which:
7027 unique CDR3
13 unique J



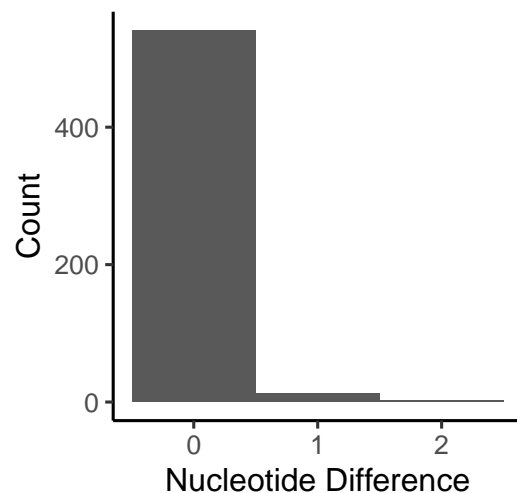
TRBV4-3*ap01

2811 sequences assigned
2773 (98.6%) exact matches, in which:
2735 unique CDR3
13 unique J



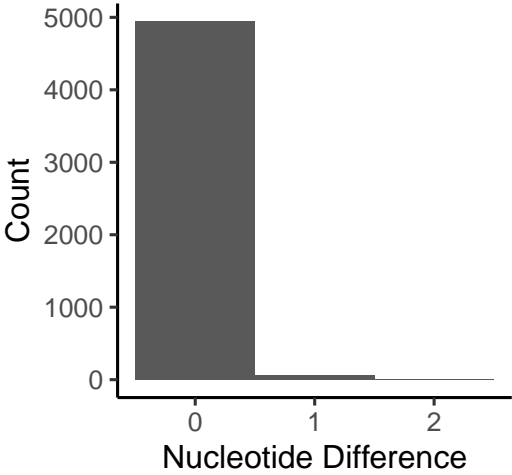
TRBV5-3*ap01

555 sequences assigned
541 (97.5%) exact matches, in which:
529 unique CDR3
13 unique J



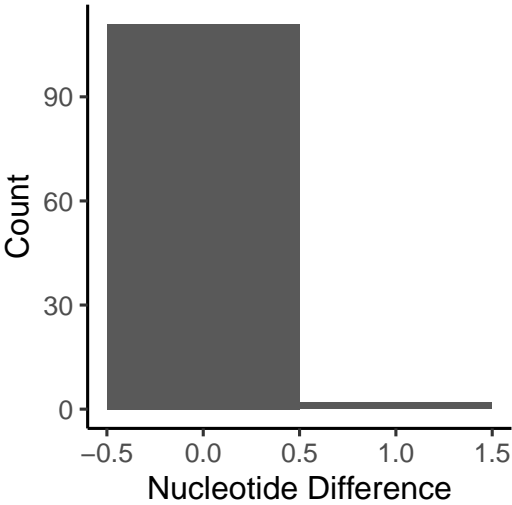
TRBV5-4*ap01

5001 sequences assigned
4944 (98.9%) exact matches, in which:
4850 unique CDR3
13 unique J



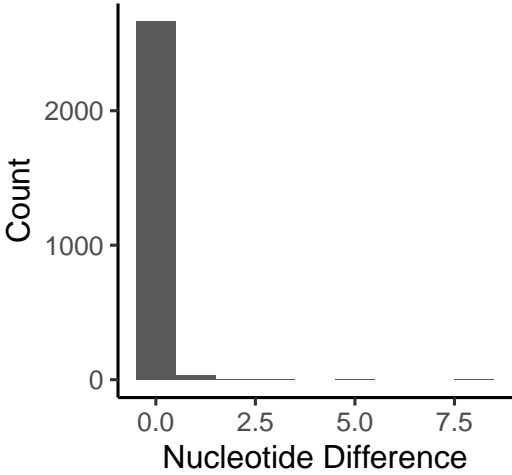
TRBV5-7*ap01

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



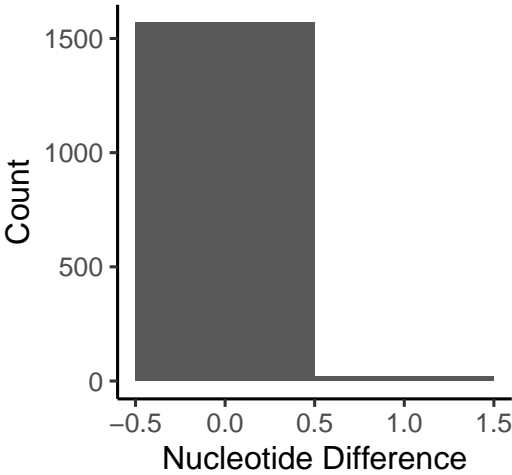
TRBV6-4*ap01

2705 sequences assigned
2664 (98.5%) exact matches, in which:
2640 unique CDR3
13 unique J



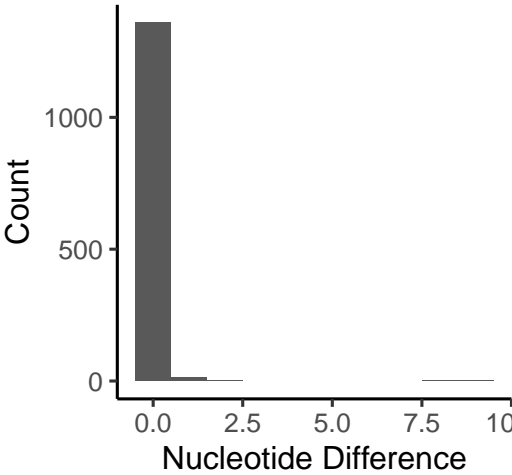
TRBV5-5*ap01

1587 sequences assigned
1569 (98.9%) exact matches, in which:
1562 unique CDR3
13 unique J



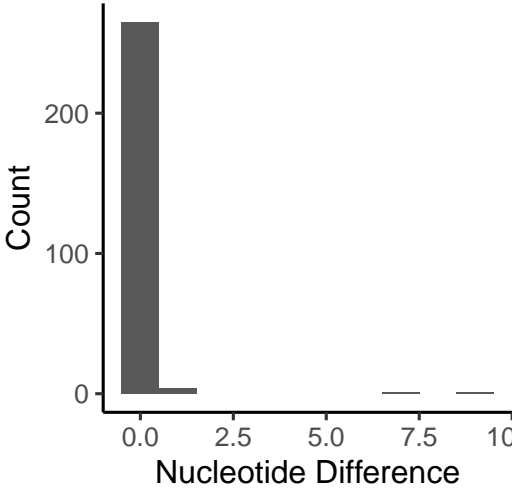
TRBV5-8*ap01

1377 sequences assigned
1359 (98.7%) exact matches, in which:
1336 unique CDR3
13 unique J



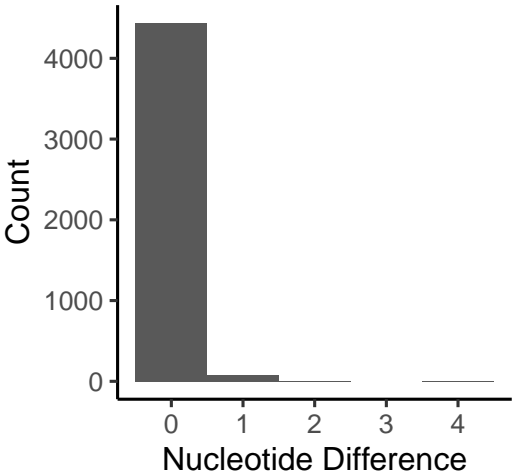
TRBV6-7*ap01

271 sequences assigned
265 (97.8%) exact matches, in which:
262 unique CDR3
13 unique J



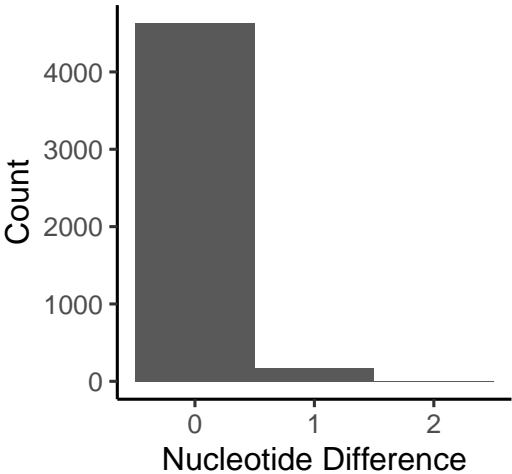
TRBV5-6*ap01

4519 sequences assigned
4437 (98.2%) exact matches, in which:
4346 unique CDR3
13 unique J



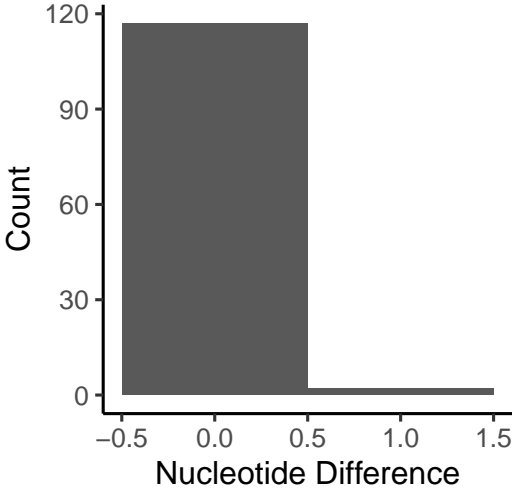
TRBV6-1*ap01

4808 sequences assigned
4632 (96.3%) exact matches, in which:
4525 unique CDR3
13 unique J



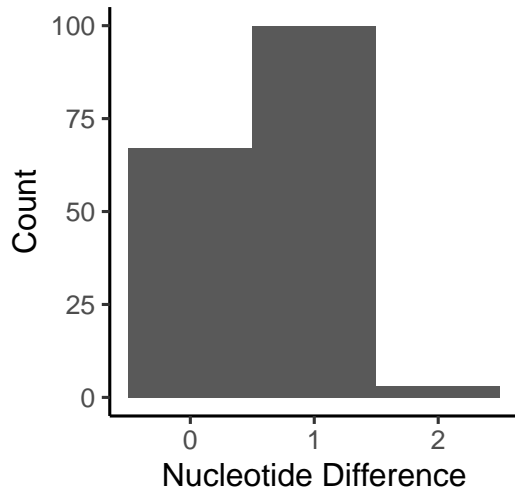
TRBV6-8*ap01

119 sequences assigned
117 (98.3%) exact matches, in which:
112 unique CDR3
13 unique J



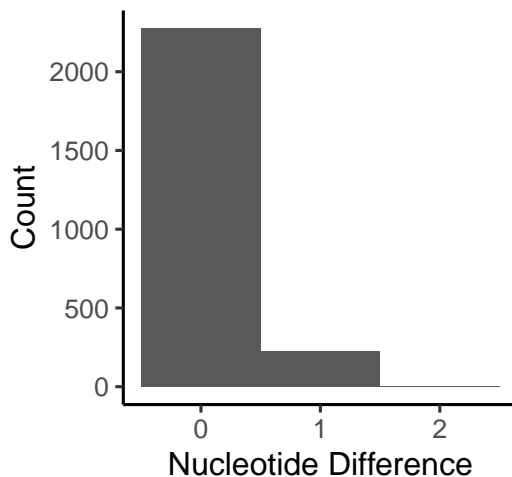
TRBV6-9*ap01

170 sequences assigned
67 (39.4%) exact matches, in which:
65 unique CDR3
12 unique J



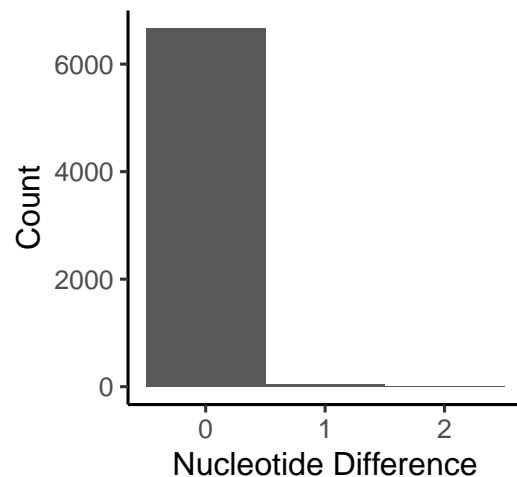
TRBV6-56*ap02

2504 sequences assigned
2275 (90.9%) exact matches, in which:
2230 unique CDR3
13 unique J



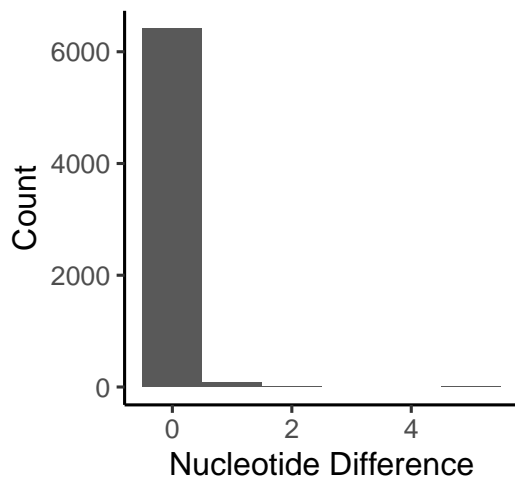
TRBV7-2*ap01

6714 sequences assigned
6664 (99.3%) exact matches, in which:
6582 unique CDR3
13 unique J



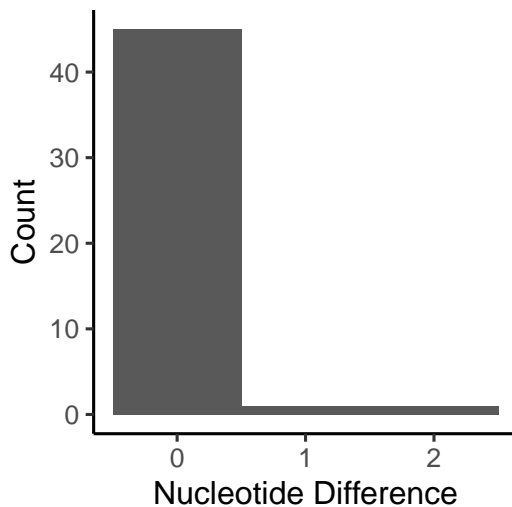
TRBV6-23*ap01

6497 sequences assigned
6412 (98.7%) exact matches, in which:
6240 unique CDR3
13 unique J



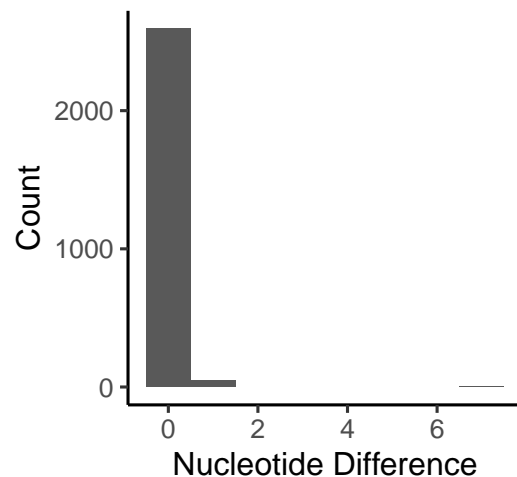
TRBV7-1*ap01_G291C_T

47 sequences assigned
45 (95.7%) exact matches, in which:
45 unique CDR3
12 unique J



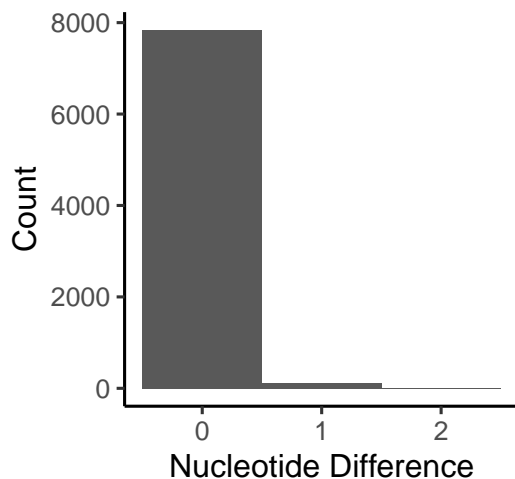
TRBV7-3*ap01

2638 sequences assigned
2593 (98.3%) exact matches, in which:
2569 unique CDR3
13 unique J



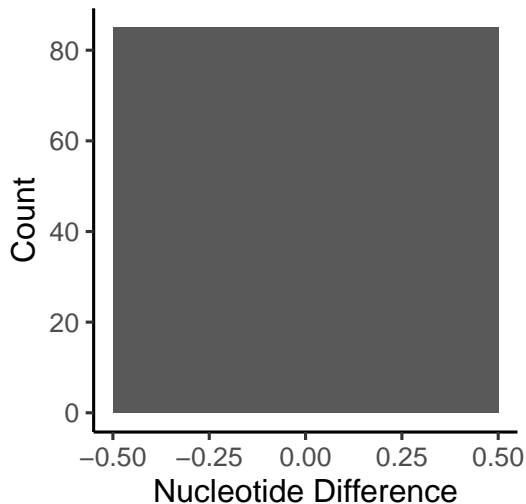
TRBV6-56*ap01

7958 sequences assigned
7838 (98.5%) exact matches, in which:
7641 unique CDR3
13 unique J



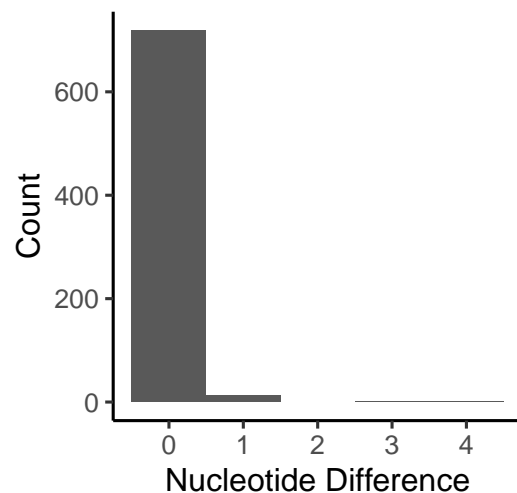
TRBV7-1*ap01_G291C_T

85 sequences assigned
85 (100%) exact matches, in which:
85 unique CDR3
13 unique J



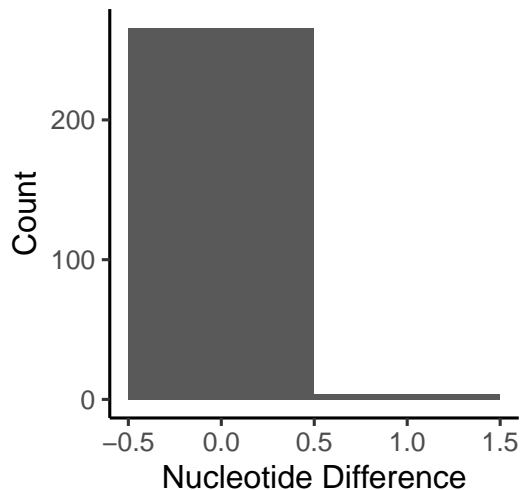
TRBV7-3*ap02

733 sequences assigned
719 (98.1%) exact matches, in which:
709 unique CDR3
13 unique J



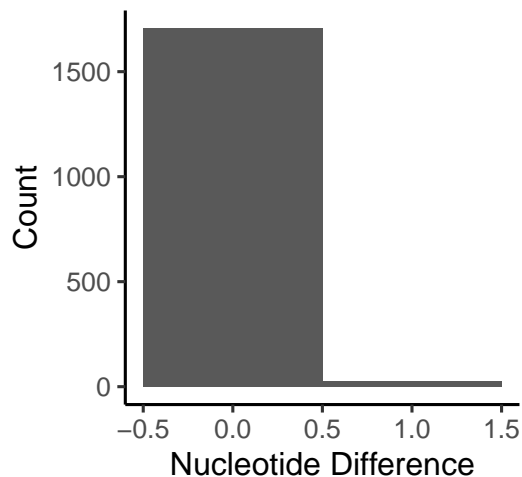
TRBV7-4*ap01

270 sequences assigned
266 (98.5%) exact matches, in which:
262 unique CDR3
13 unique J



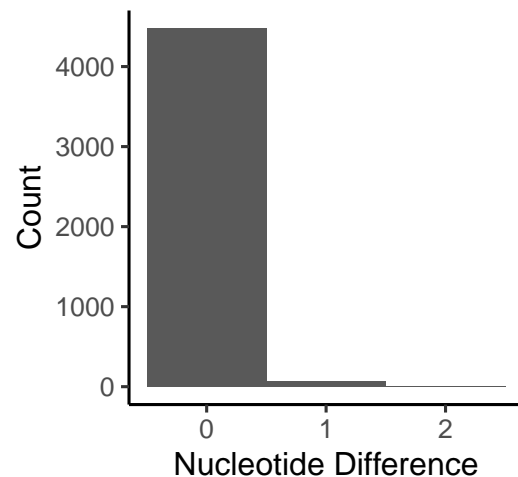
TRBV7-8*ap01

1731 sequences assigned
1706 (98.6%) exact matches, in which:
1685 unique CDR3
13 unique J



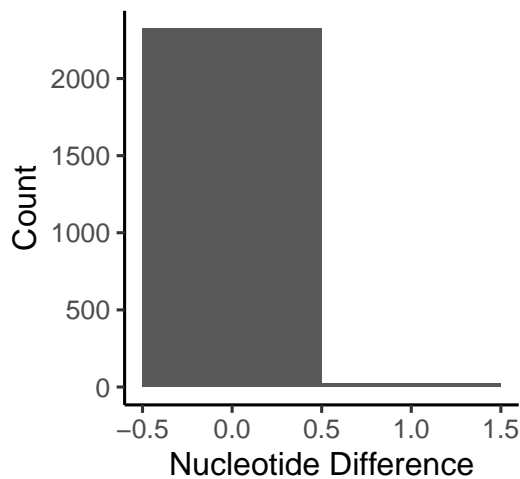
TRBV29-1*ap01

4556 sequences assigned
4477 (98.3%) exact matches, in which:
4378 unique CDR3
13 unique J



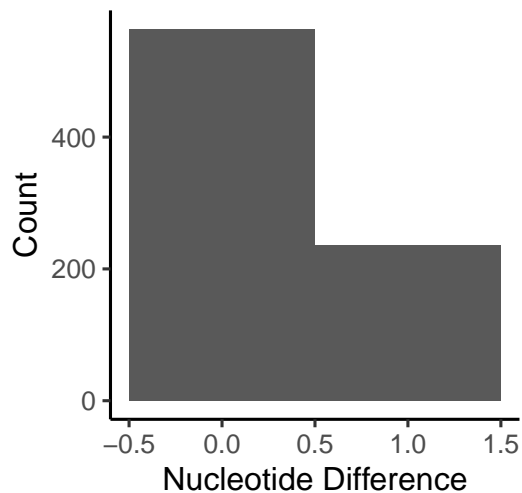
TRBV7-6*ap01

2343 sequences assigned
2323 (99.1%) exact matches, in which:
2286 unique CDR3
13 unique J



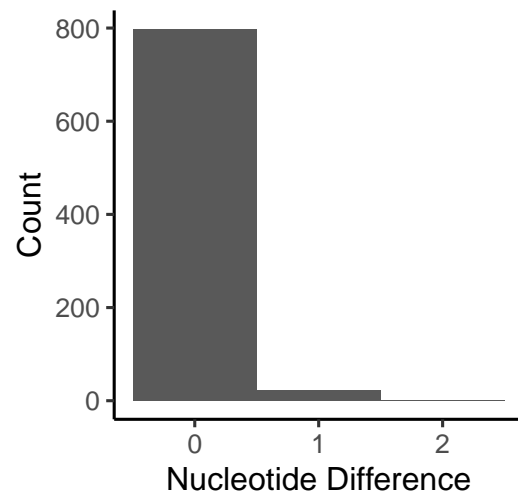
TRBV7-8*ap03

800 sequences assigned
564 (70.5%) exact matches, in which:
553 unique CDR3
13 unique J



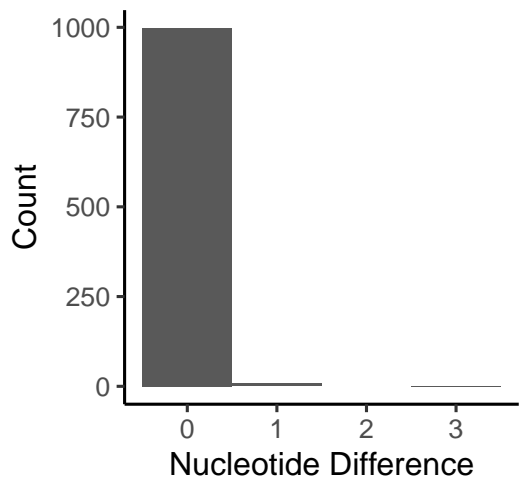
TRBV29-1*ap02

823 sequences assigned
798 (97%) exact matches, in which:
785 unique CDR3
14 unique J



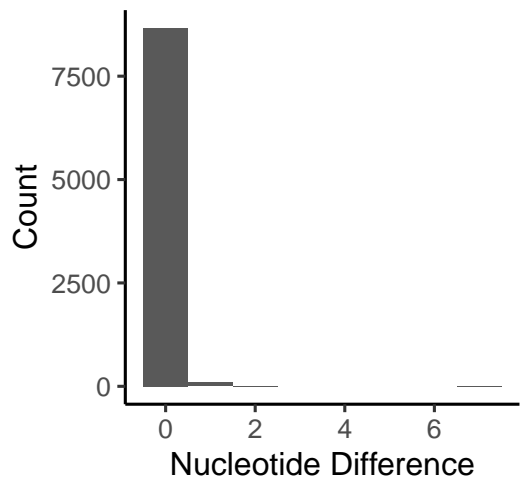
TRBV7-7*ap01

1007 sequences assigned
998 (99.1%) exact matches, in which:
985 unique CDR3
13 unique J

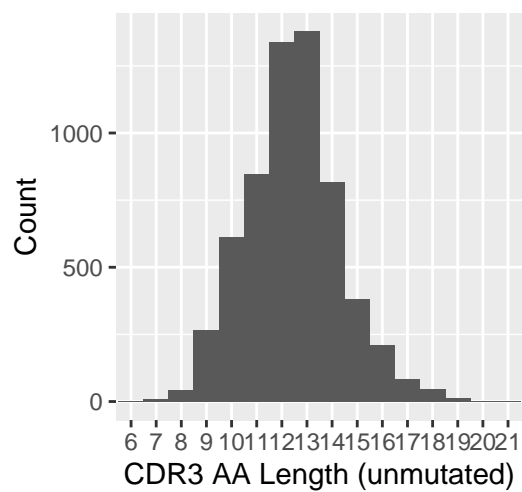


TRBV7-9*ap01

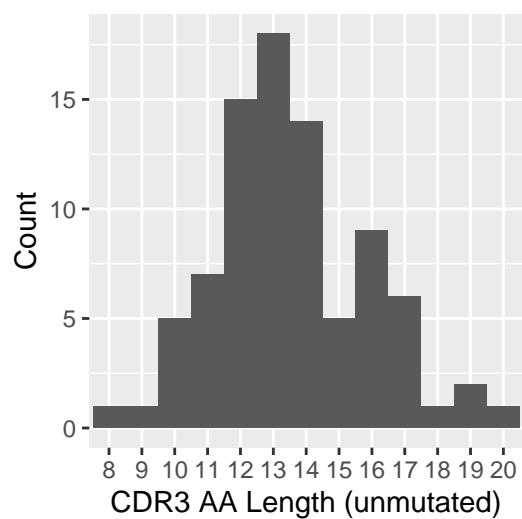
8762 sequences assigned
8664 (98.9%) exact matches, in which:
8507 unique CDR3
13 unique J



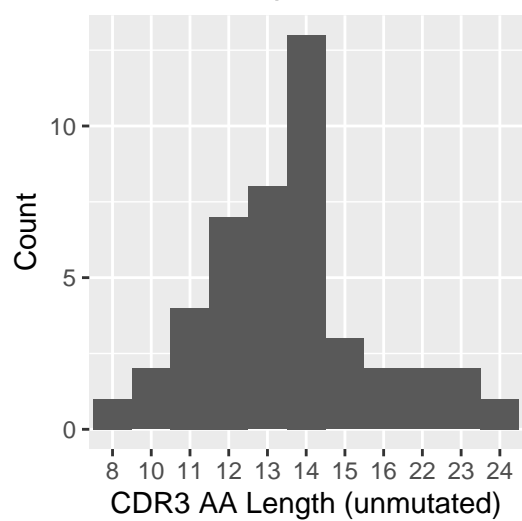
TRBV28*ap01_A297G



TRBV7-1*ap01_G291C_T296C_C314T



TRBV7-1*ap01_G291C_T296C





[illegible]