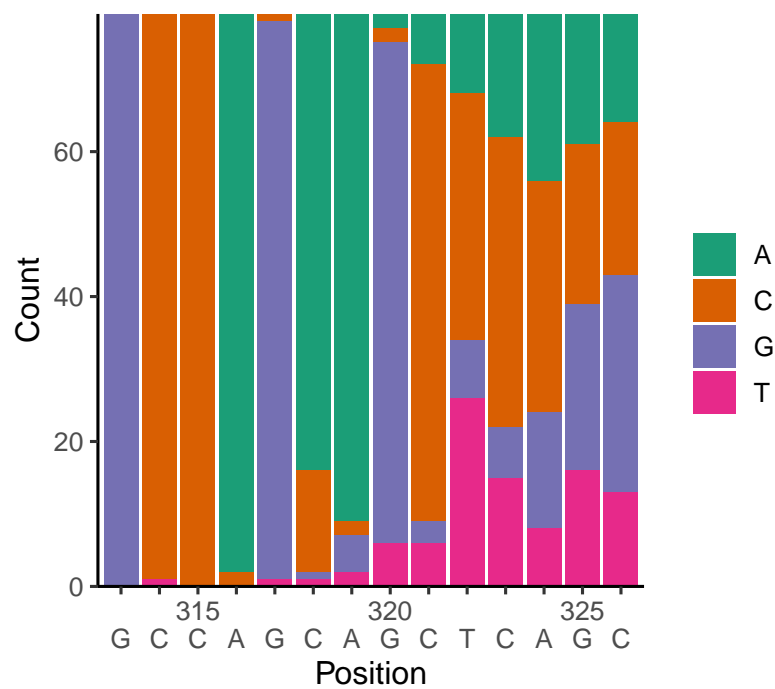
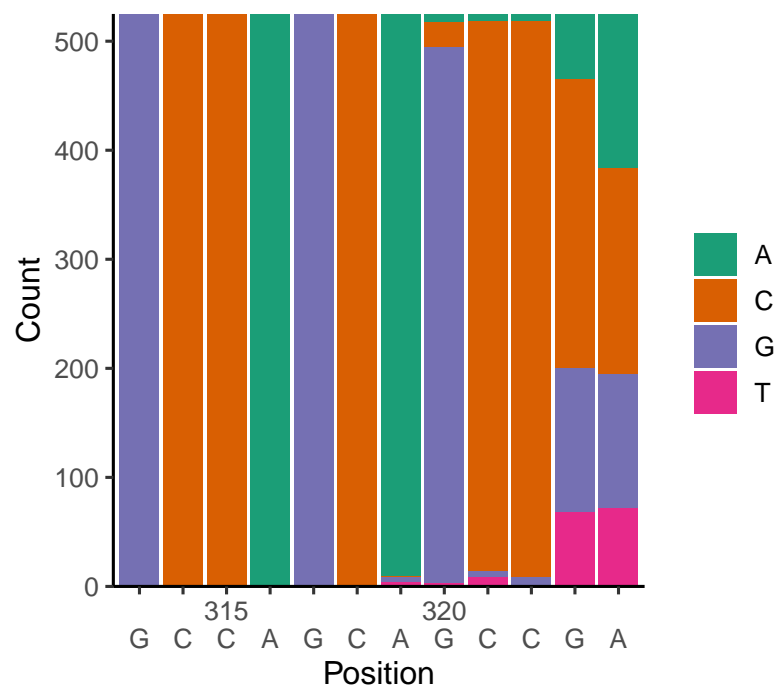


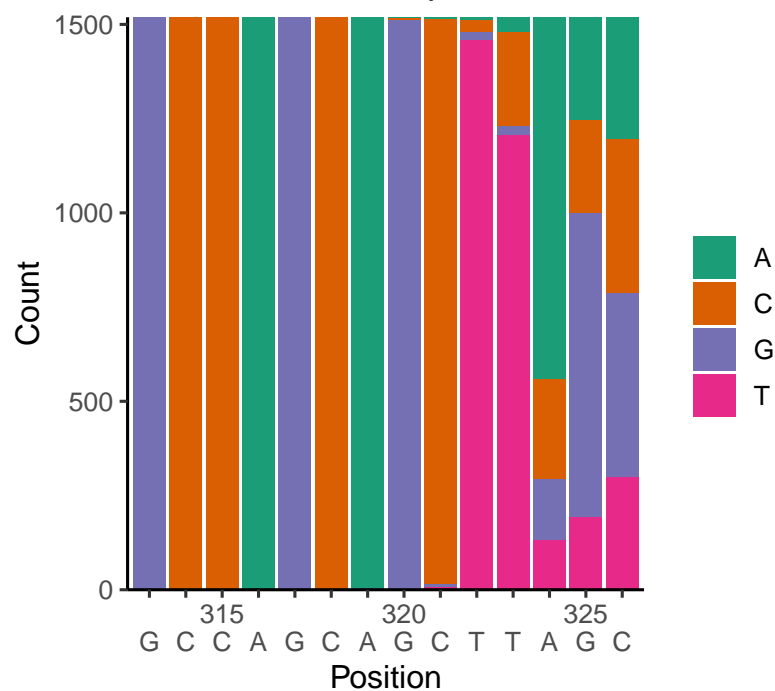
Gene TRBV7-1\*ap01\_T296C



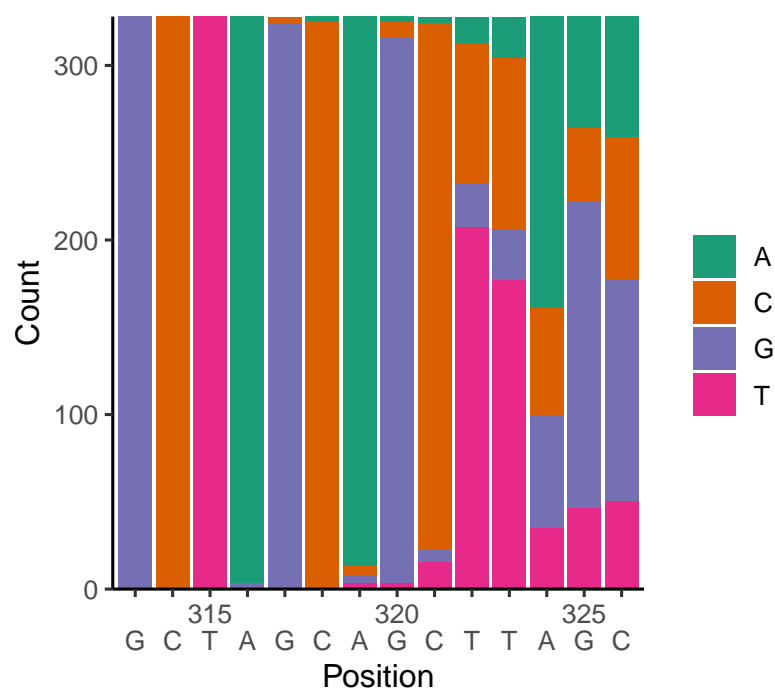
Gene TRBV7-8\*ap03\_C297A



Gene TRBV7-2\*ap01\_G297A



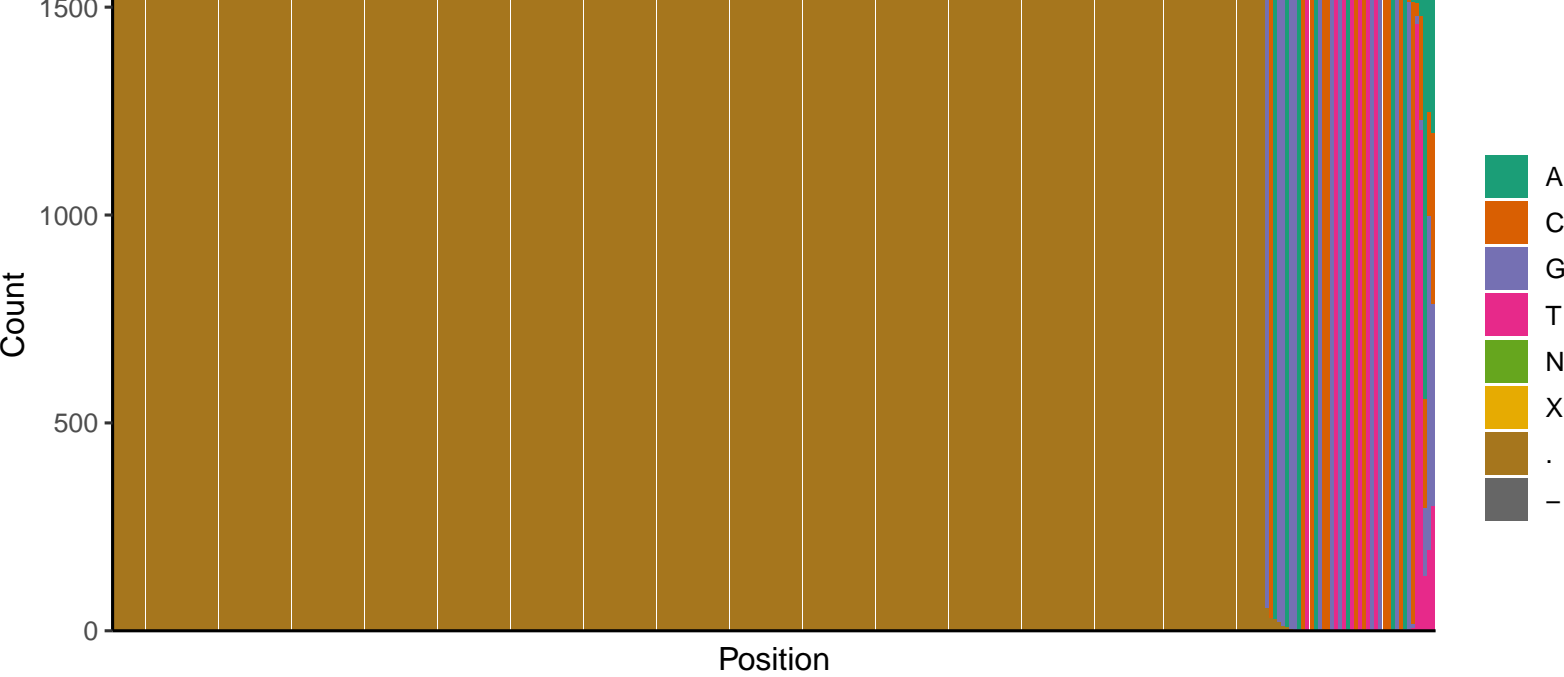
Gene TRBV7-7\*ap01\_C315T



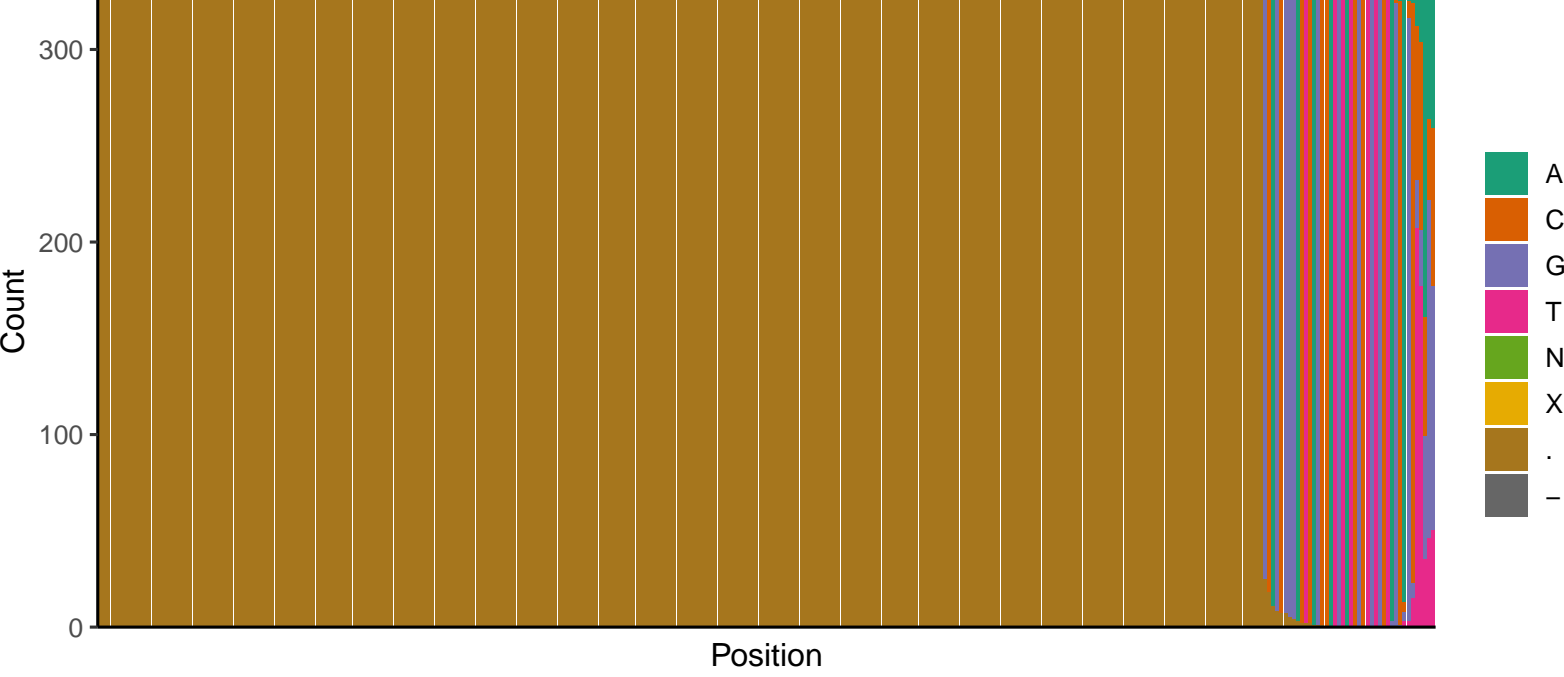
Gene TRBV7-1\*ap01\_T296C



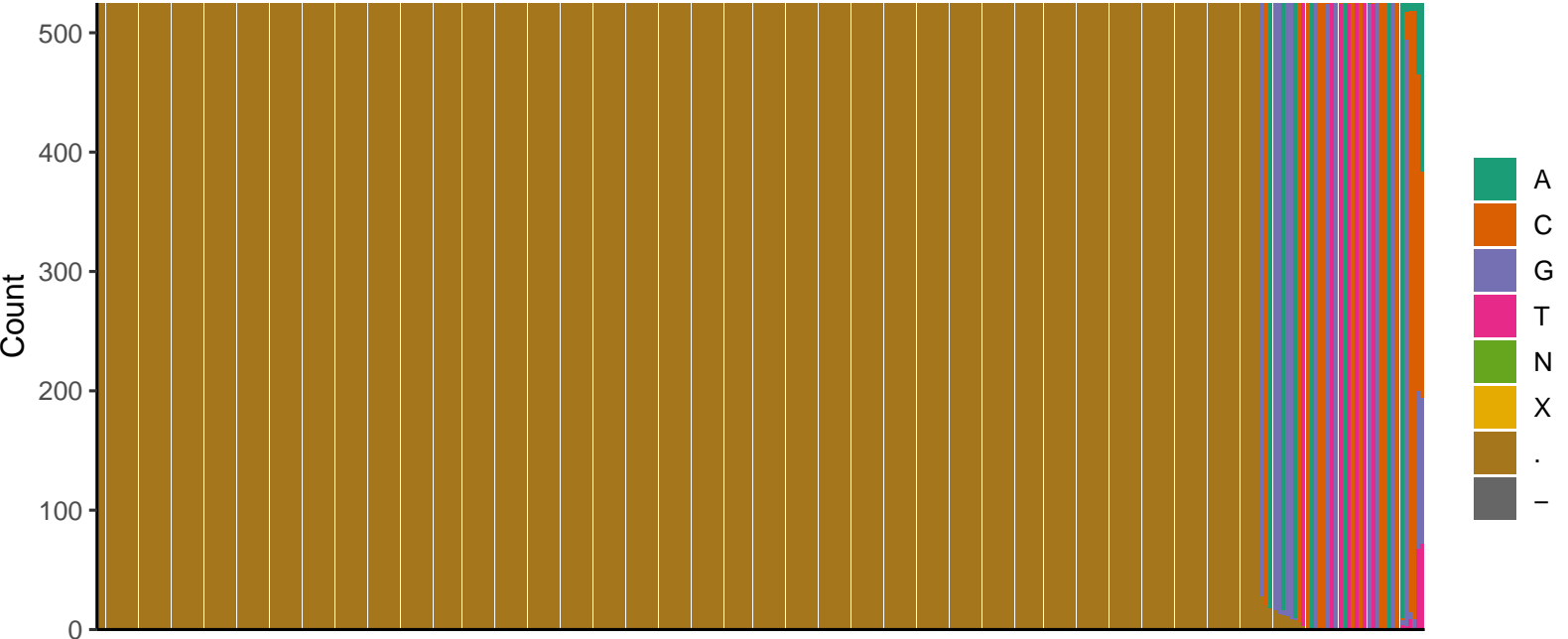
Gene TRBV7-2\*ap01\_G297A



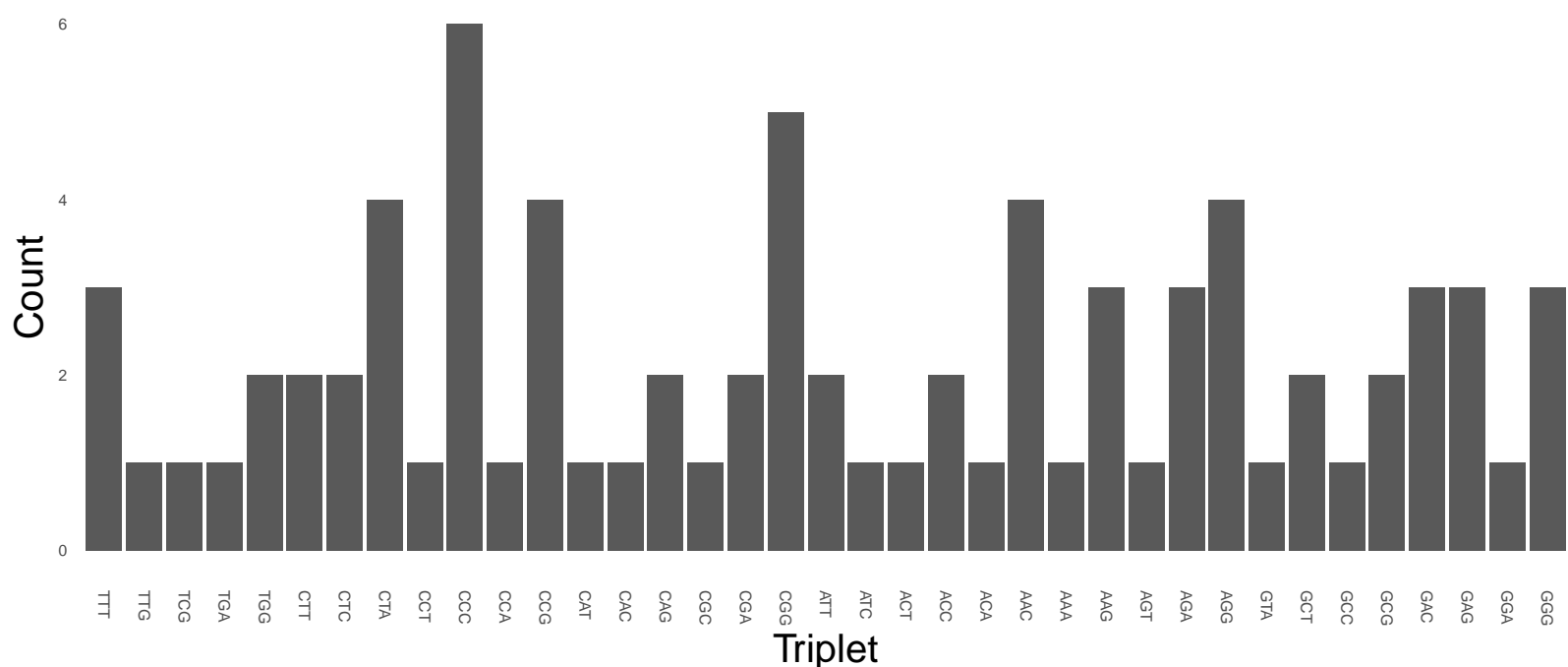
Gene TRBV7-7\*ap01\_C315T



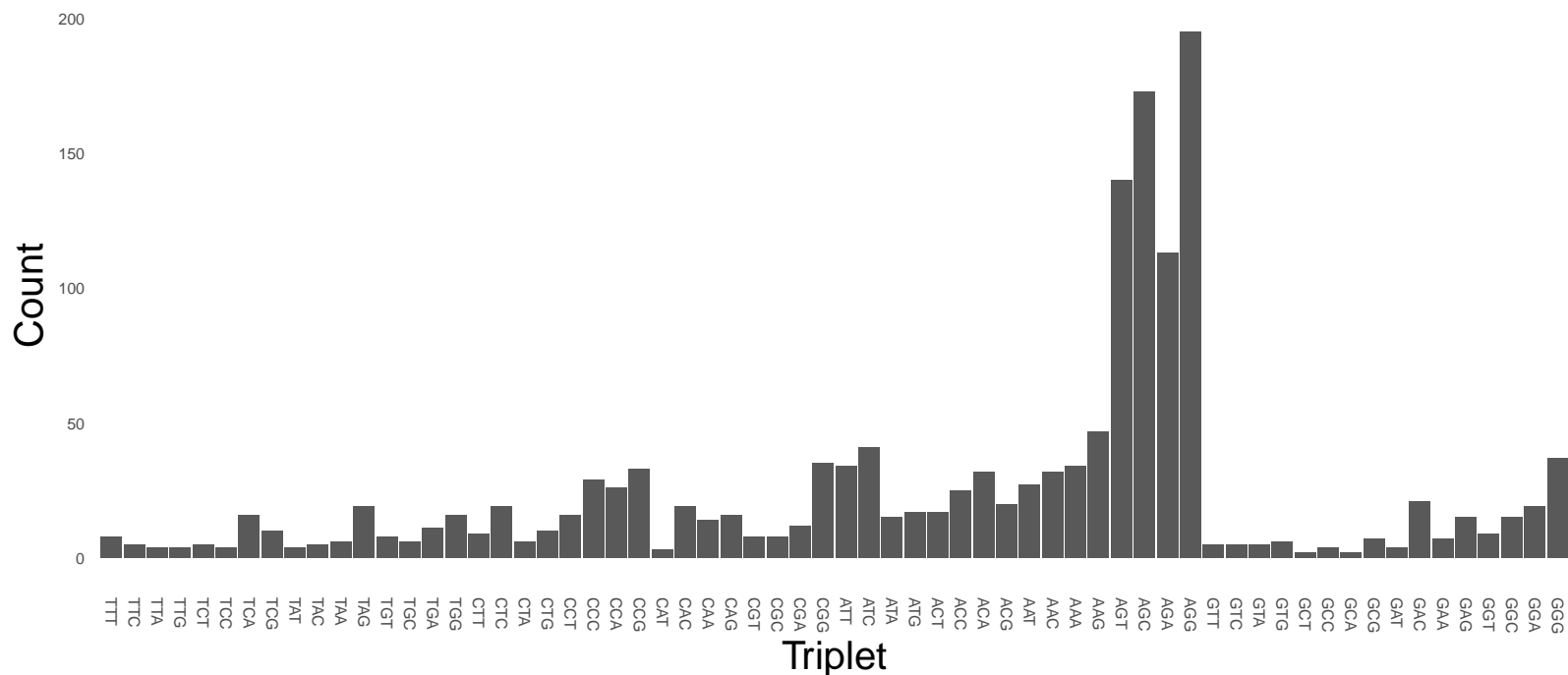
Gene TRBV7-8\*ap03\_C297A



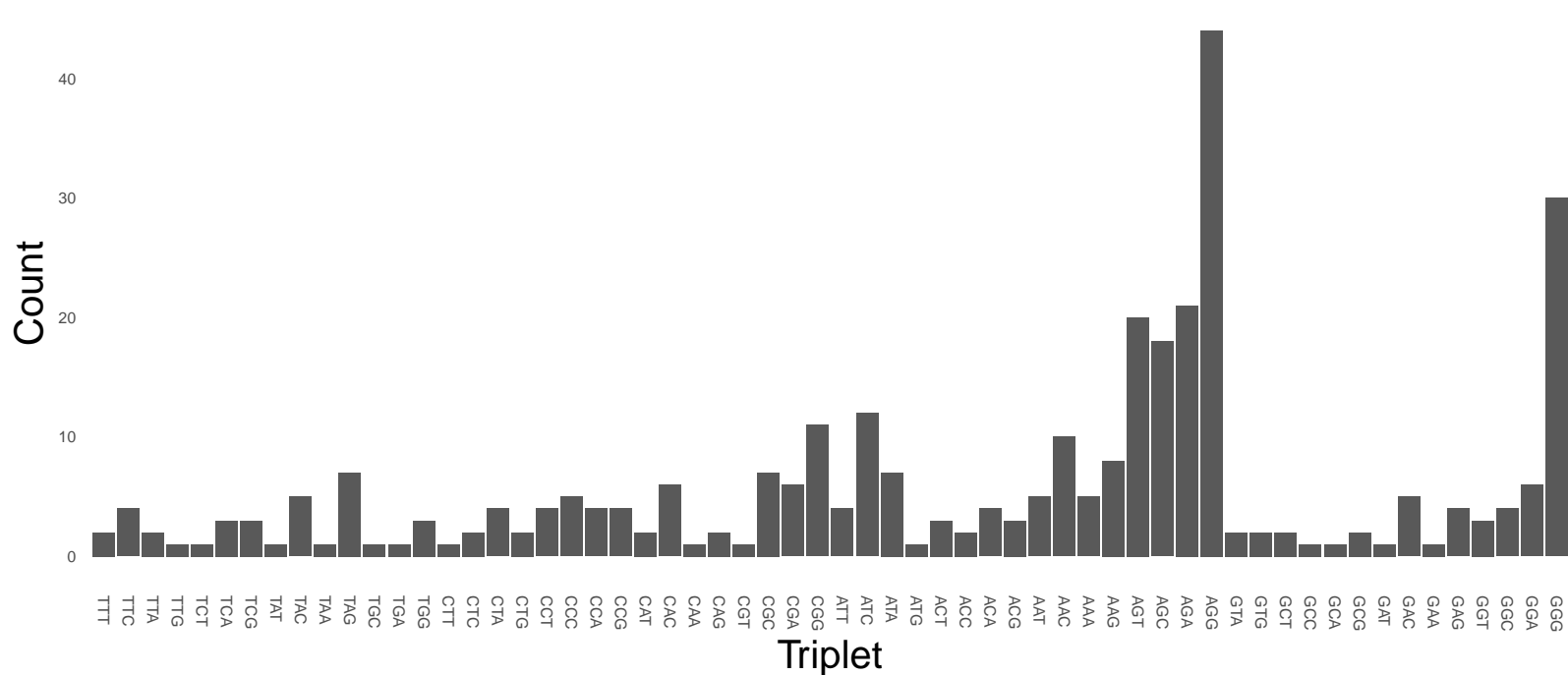
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



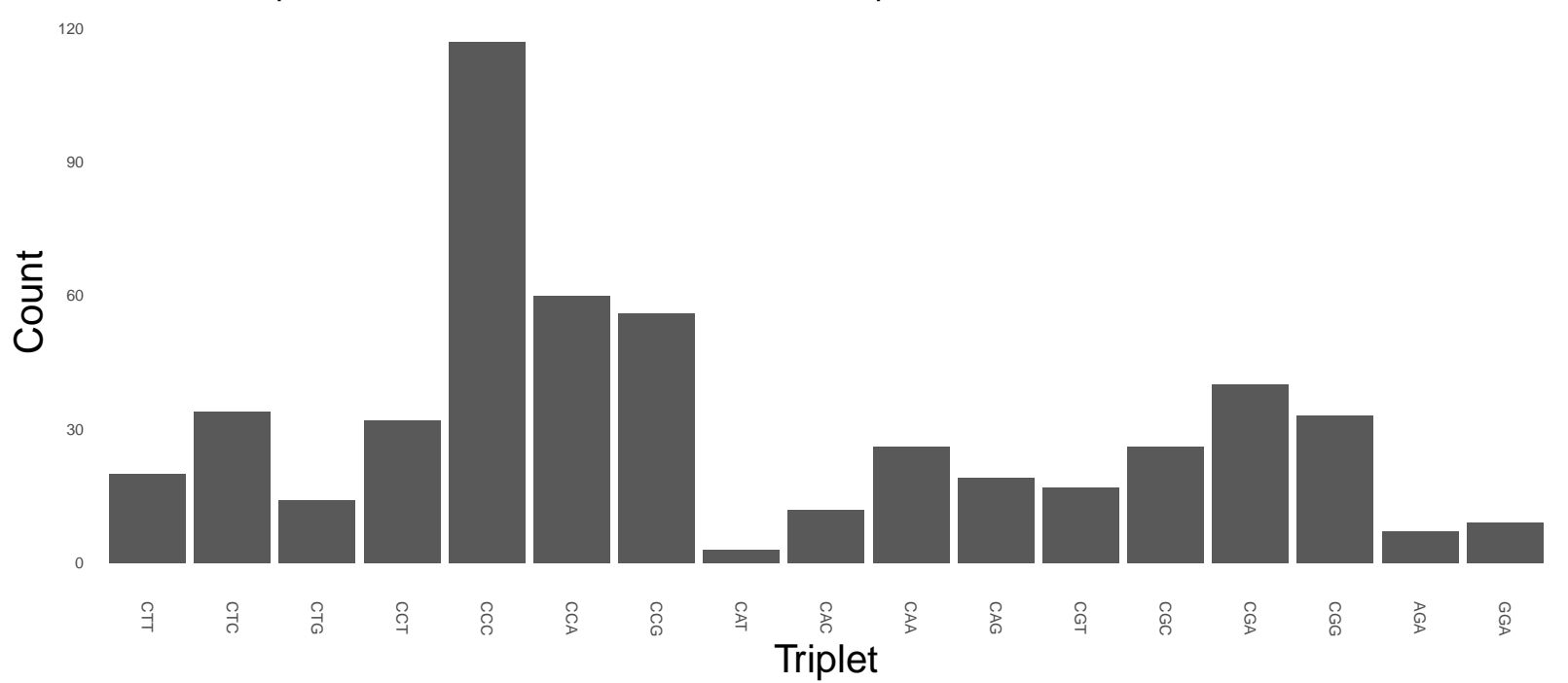
TRBV7-2\*ap01\_G297A- Final 3 nucleotides as a triplet



TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet

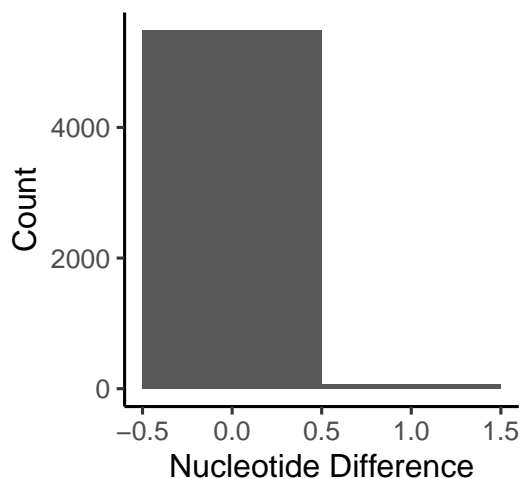


TRBV7-8\*ap03\_C297A- Final 3 nucleotides as a triplet



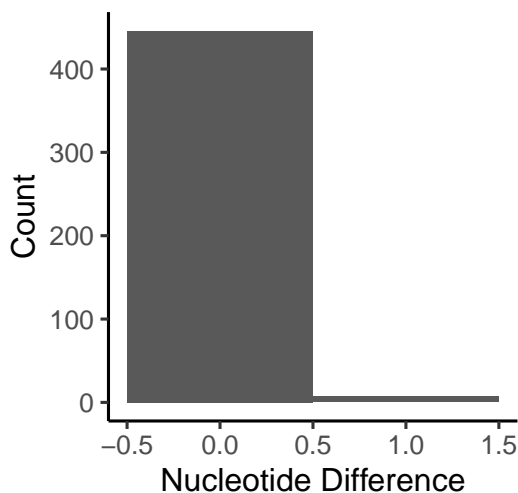
### TRBV20-1\*ap01

5556 sequences assigned  
5486 (98.7%) exact matches, in which:  
5394 unique CDR3  
13 unique J



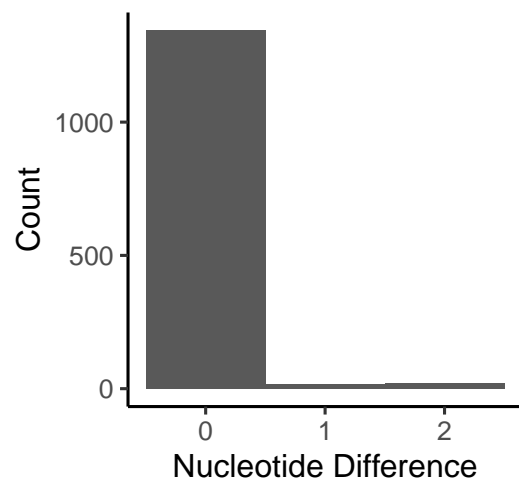
### TRBV10-2\*ap01

453 sequences assigned  
446 (98.5%) exact matches, in which:  
437 unique CDR3  
13 unique J



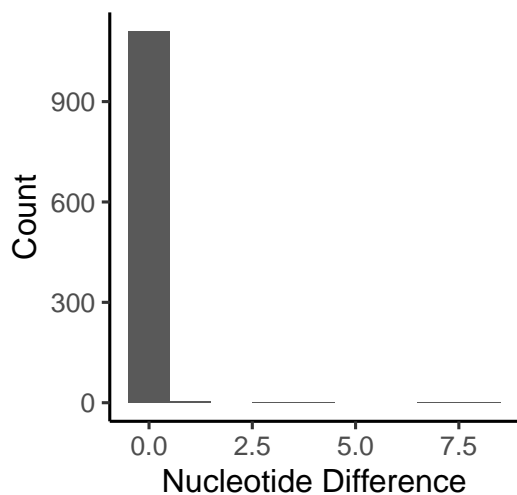
### TRBV13\*ap01

1382 sequences assigned  
1344 (97.3%) exact matches, in which:  
1296 unique CDR3  
13 unique J



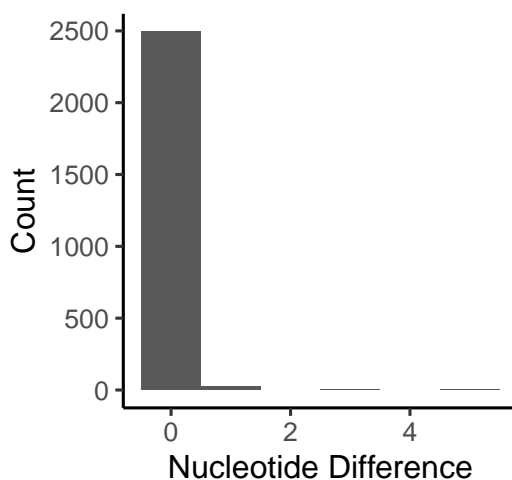
### TRBV10-1\*ap01

1121 sequences assigned  
1111 (99.1%) exact matches, in which:  
1085 unique CDR3  
13 unique J



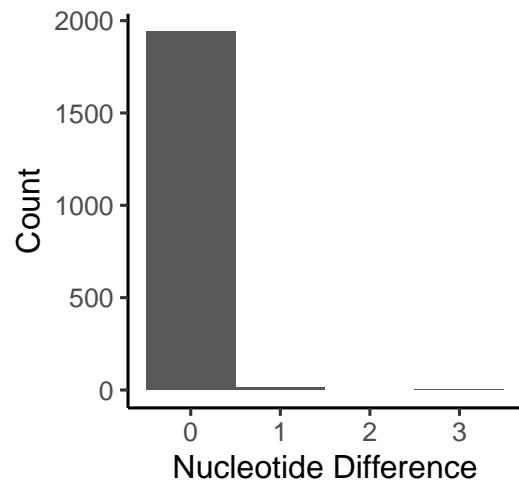
### TRBV10-3\*ap01

2517 sequences assigned  
2494 (99.1%) exact matches, in which:  
2430 unique CDR3  
13 unique J



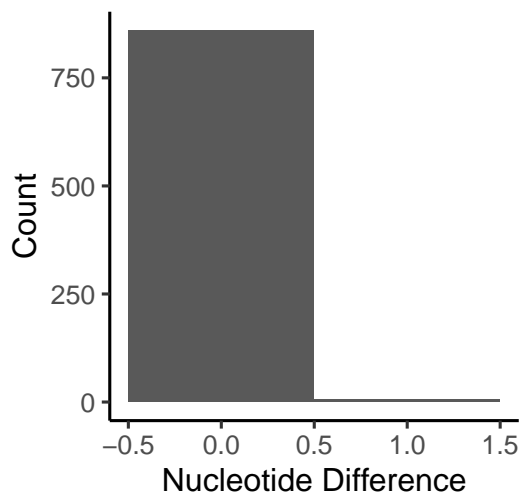
### TRBV14\*ap01

1955 sequences assigned  
1940 (99.2%) exact matches, in which:  
1886 unique CDR3  
13 unique J



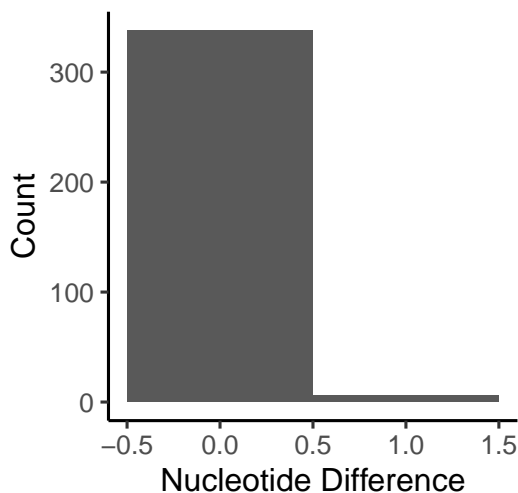
### TRBV20-1\*ap02

866 sequences assigned  
860 (99.3%) exact matches, in which:  
847 unique CDR3  
13 unique J



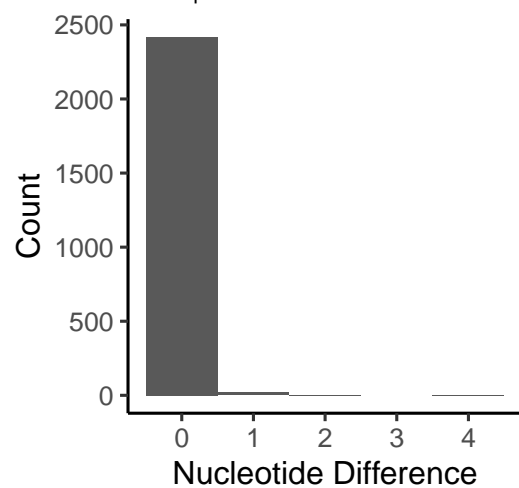
### TRBV1\*ap01

344 sequences assigned  
338 (98.3%) exact matches, in which:  
332 unique CDR3  
13 unique J



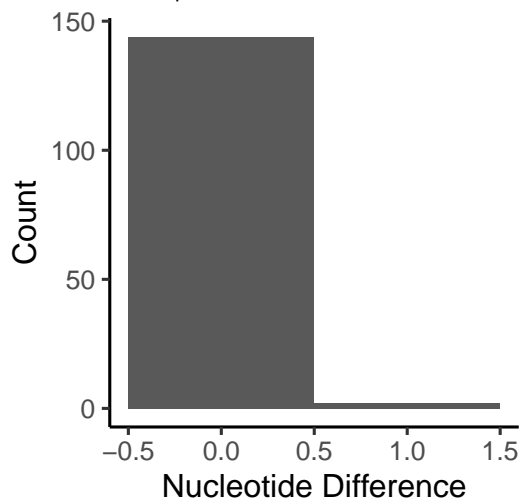
### TRBV15\*ap02

2442 sequences assigned  
2418 (99%) exact matches, in which:  
2362 unique CDR3  
14 unique J



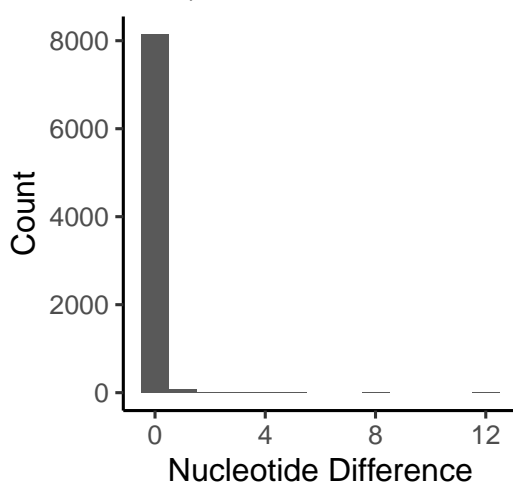
### TRBV16\*ap01

146 sequences assigned  
144 (98.6%) exact matches, in which:  
143 unique CDR3  
13 unique J



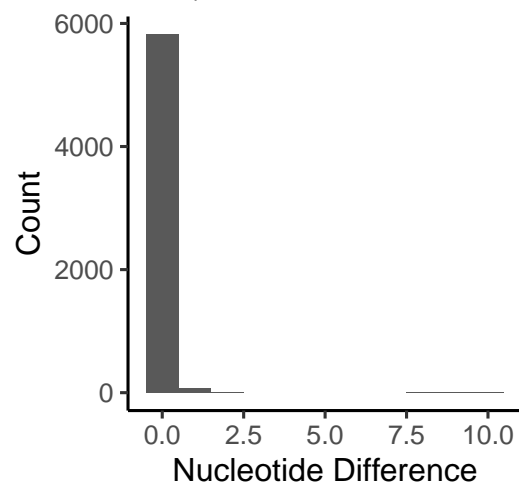
### TRBV19\*ap01

8227 sequences assigned  
8143 (99%) exact matches, in which:  
8025 unique CDR3  
13 unique J



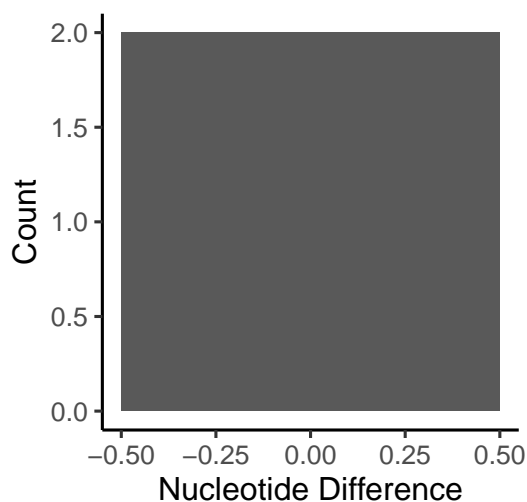
### TRBV27\*ap01

5901 sequences assigned  
5822 (98.7%) exact matches, in which:  
5674 unique CDR3  
13 unique J



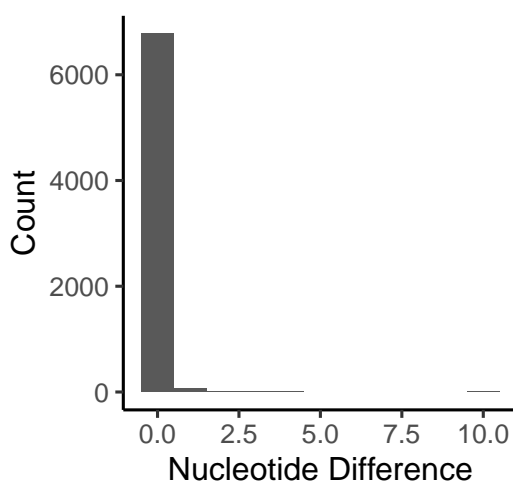
### TRBV17\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



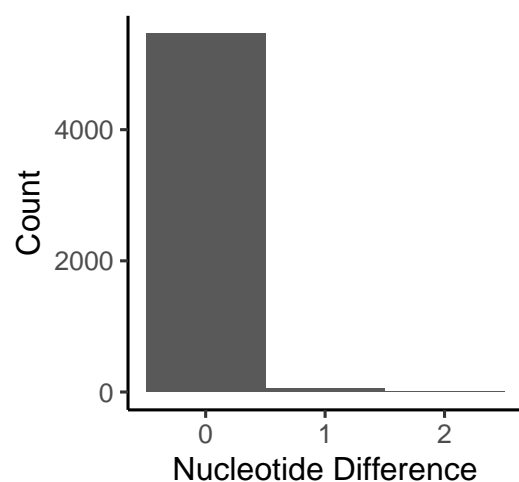
### TRBV2\*ap01

6847 sequences assigned  
6776 (99%) exact matches, in which:  
6631 unique CDR3  
13 unique J



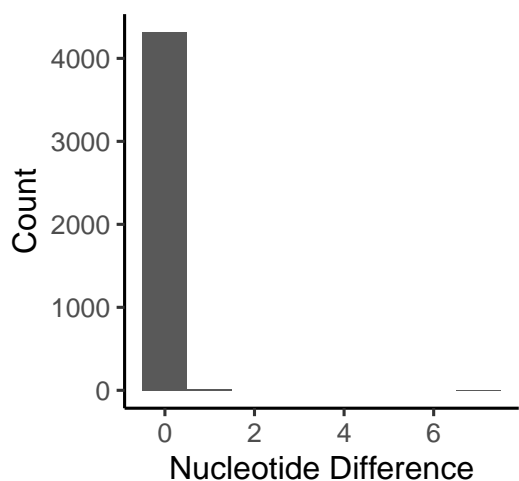
### TRBV28\*ap01

5513 sequences assigned  
5463 (99.1%) exact matches, in which:  
5355 unique CDR3  
13 unique J



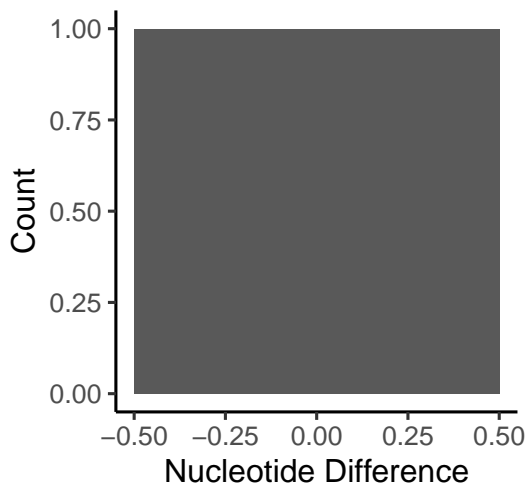
### TRBV18\*ap01

4337 sequences assigned  
4317 (99.5%) exact matches, in which:  
4252 unique CDR3  
13 unique J



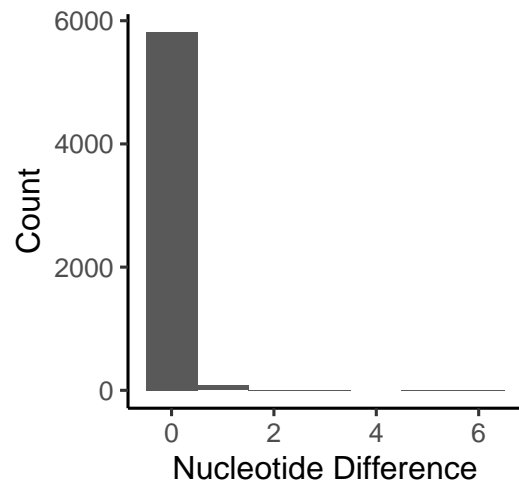
### TRBV26\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



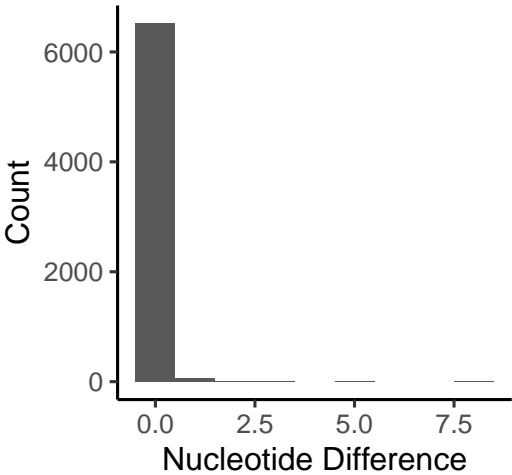
### TRBV30\*ap01

5900 sequences assigned  
5816 (98.6%) exact matches, in which:  
5698 unique CDR3  
13 unique J



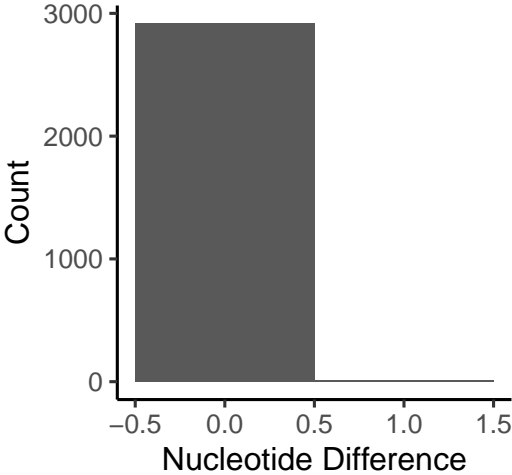
TRBV9\*ap01

6579 sequences assigned  
6519 (99.1%) exact matches, in which:  
6406 unique CDR3  
13 unique J



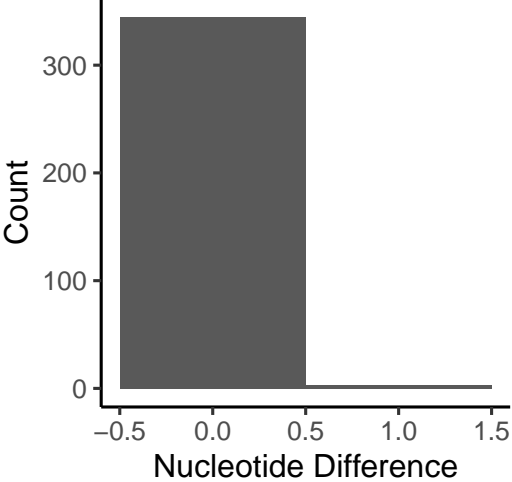
TRBV11-2\*ap01

2930 sequences assigned  
2918 (99.6%) exact matches, in which:  
2895 unique CDR3  
13 unique J



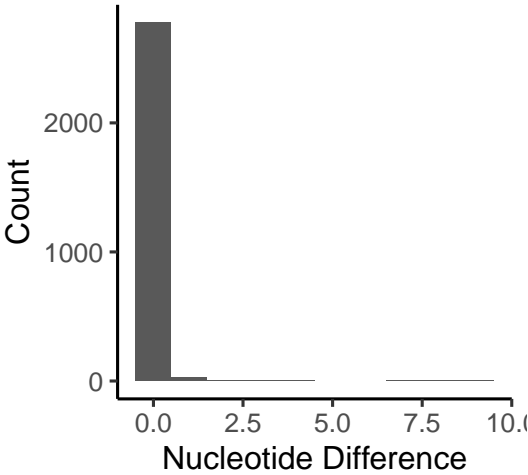
TRBV12-2\*ap01

348 sequences assigned  
345 (99.1%) exact matches, in which:  
339 unique CDR3  
13 unique J



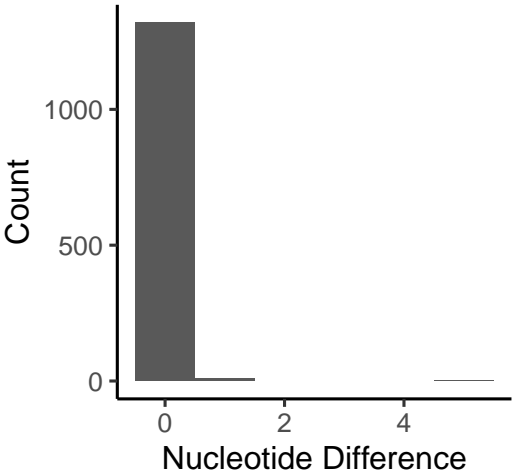
TRBV21-1\*ap01

2815 sequences assigned  
2776 (98.6%) exact matches, in which:  
2747 unique CDR3  
13 unique J



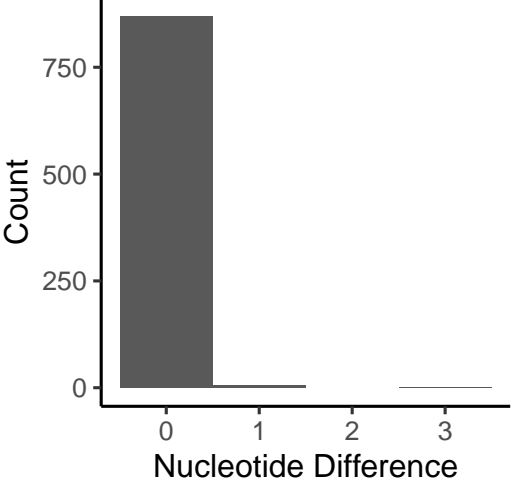
TRBV11-3\*ap01

1330 sequences assigned  
1319 (99.2%) exact matches, in which:  
1310 unique CDR3  
13 unique J



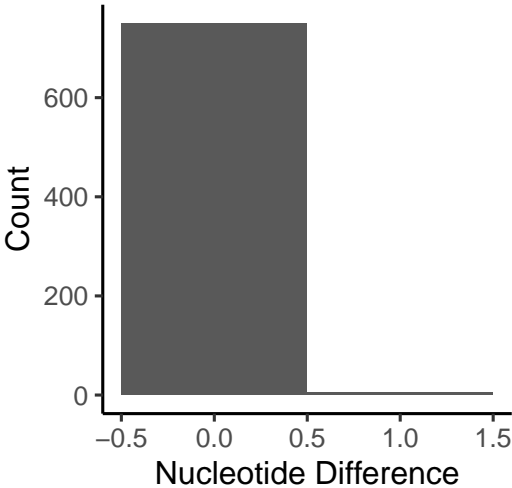
TRBV12-5\*ap01

878 sequences assigned  
870 (99.1%) exact matches, in which:  
856 unique CDR3  
13 unique J



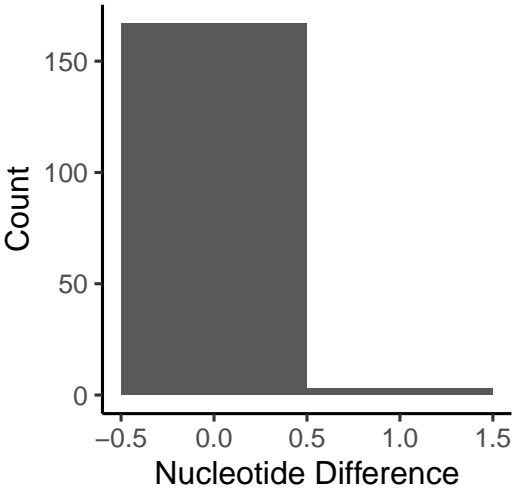
TRBV11-1\*ap01

756 sequences assigned  
750 (99.2%) exact matches, in which:  
739 unique CDR3  
13 unique J



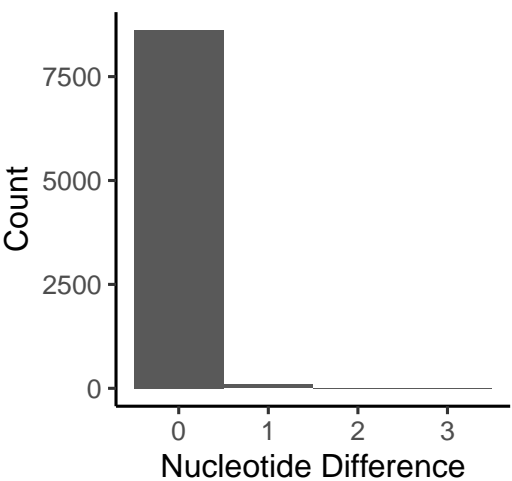
TRBV12-1\*ap01

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



TRBV12-34\*ap01

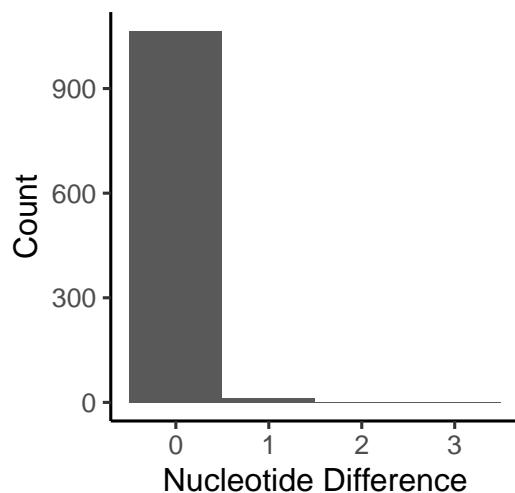
8718 sequences assigned  
8620 (98.9%) exact matches, in which:  
8427 unique CDR3  
13 unique J





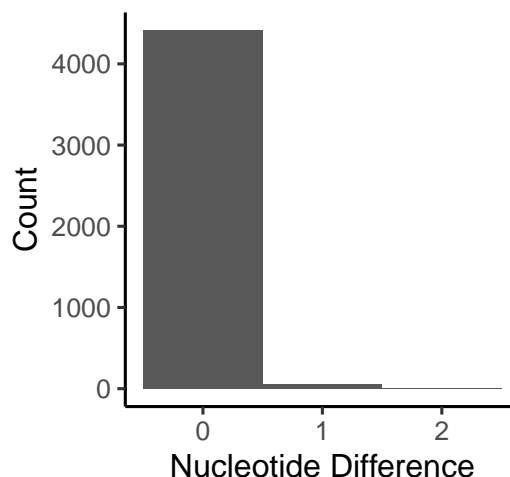
### TRBV23-1\*ap01

1080 sequences assigned  
1066 (98.7%) exact matches, in which:  
1048 unique CDR3  
13 unique J



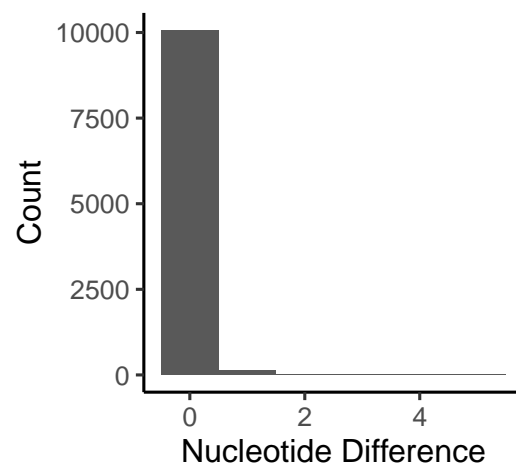
### TRBV4-1\*ap01

4473 sequences assigned  
4412 (98.6%) exact matches, in which:  
4319 unique CDR3  
13 unique J



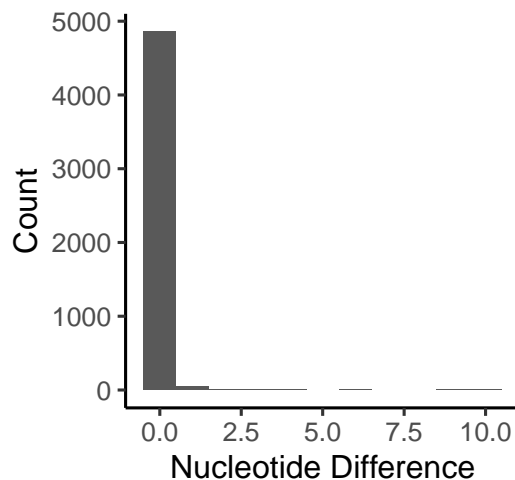
### TRBV5-1\*ap01

10195 sequences assigned  
10069 (98.8%) exact matches, in which:  
9780 unique CDR3  
13 unique J



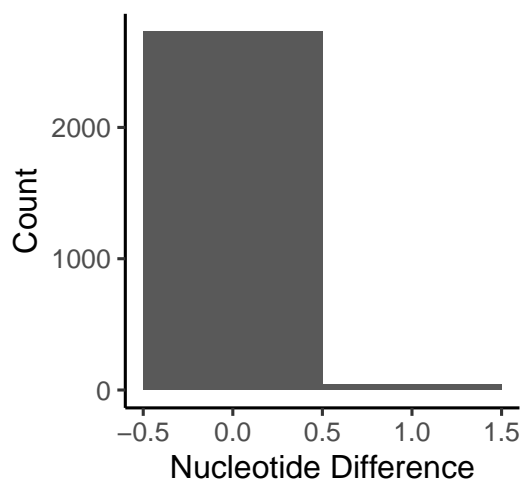
### TRBV3-12\*ap01

4907 sequences assigned  
4857 (99%) exact matches, in which:  
4792 unique CDR3  
13 unique J



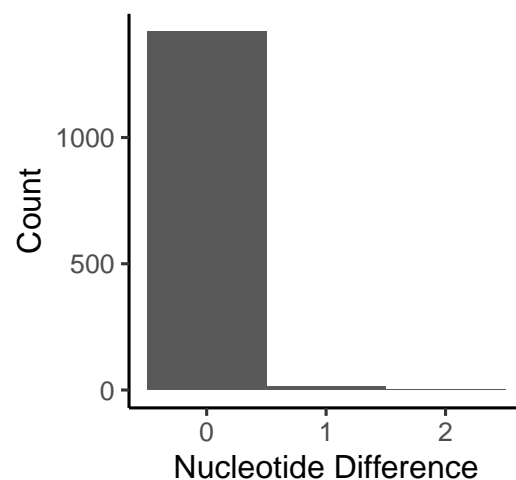
### TRBV4-2\*ap01

2768 sequences assigned  
2729 (98.6%) exact matches, in which:  
2666 unique CDR3  
13 unique J



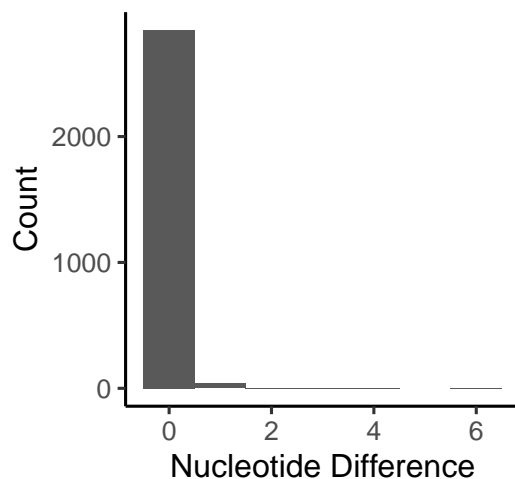
### TRBV25-1\*ap01

1435 sequences assigned  
1419 (98.9%) exact matches, in which:  
1383 unique CDR3  
13 unique J



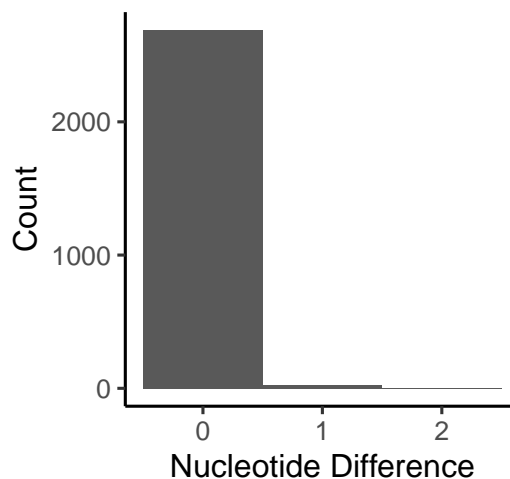
### TRBV24-1\*ap01

2895 sequences assigned  
2846 (98.3%) exact matches, in which:  
2773 unique CDR3  
13 unique J



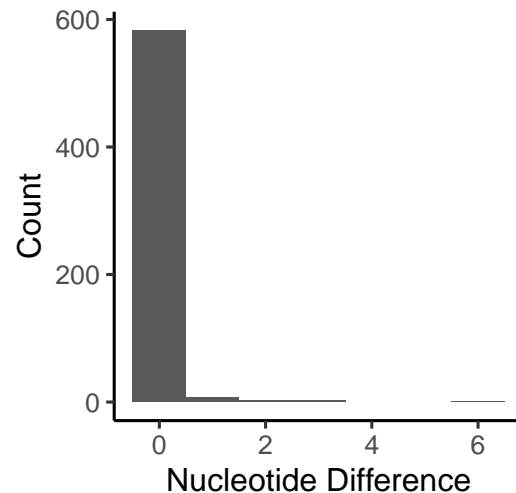
### TRBV4-3\*ap01

2718 sequences assigned  
2689 (98.9%) exact matches, in which:  
2630 unique CDR3  
13 unique J



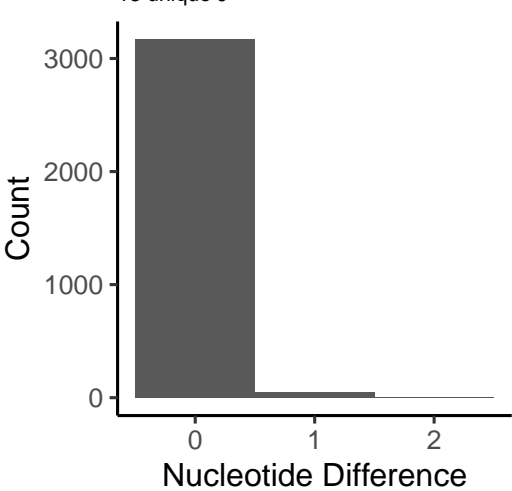
### TRBV5-3\*ap01

595 sequences assigned  
583 (98%) exact matches, in which:  
570 unique CDR3  
13 unique J



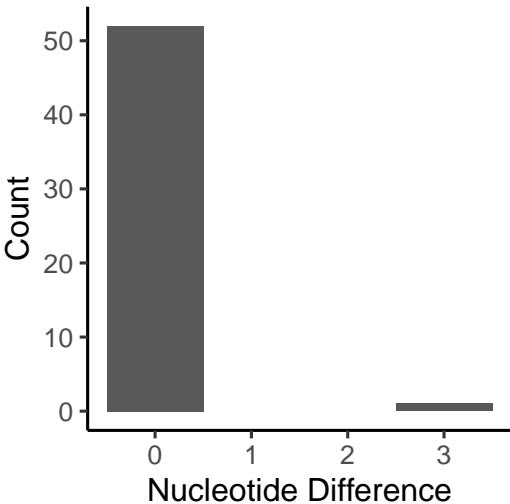
TRBV5-4\*ap01

3223 sequences assigned  
3169 (98.3%) exact matches, in which:  
3100 unique CDR3  
13 unique J



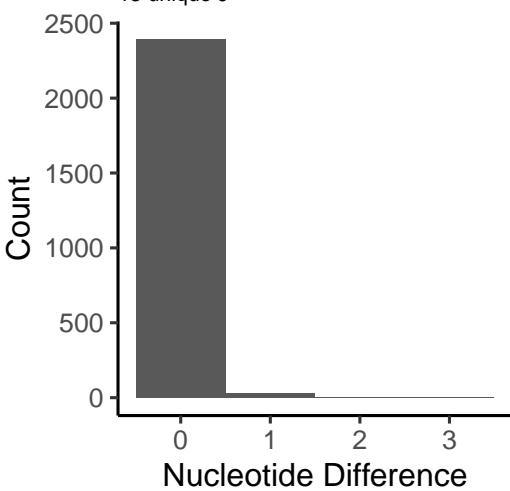
TRBV5-7\*ap01

53 sequences assigned  
52 (98.1%) exact matches, in which:  
49 unique CDR3  
13 unique J



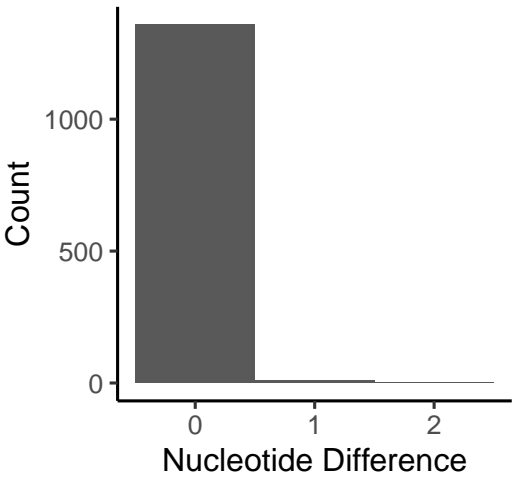
TRBV6-4\*ap01

2424 sequences assigned  
2392 (98.7%) exact matches, in which:  
2361 unique CDR3  
13 unique J



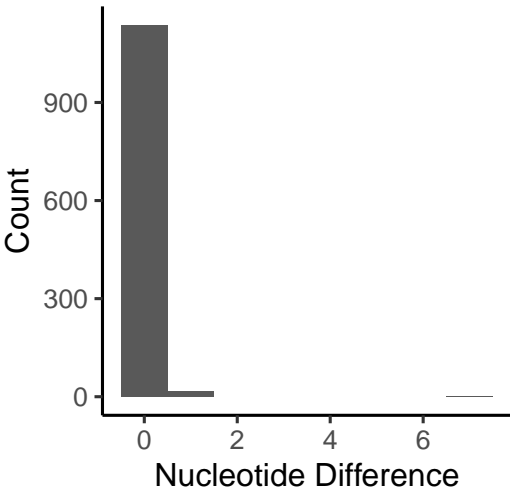
TRBV5-5\*ap01

1368 sequences assigned  
1358 (99.3%) exact matches, in which:  
1345 unique CDR3  
13 unique J



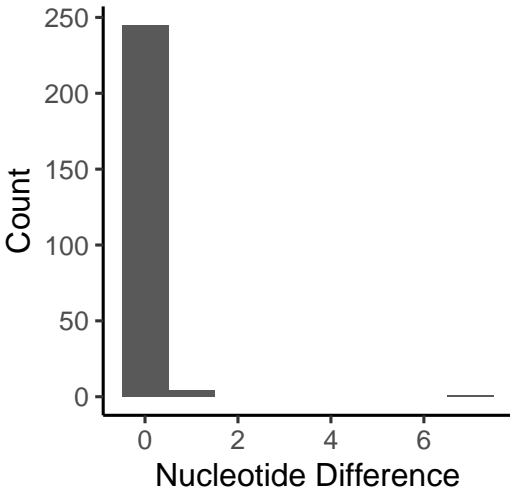
TRBV5-8\*ap01

1156 sequences assigned  
1137 (98.4%) exact matches, in which:  
1108 unique CDR3  
13 unique J



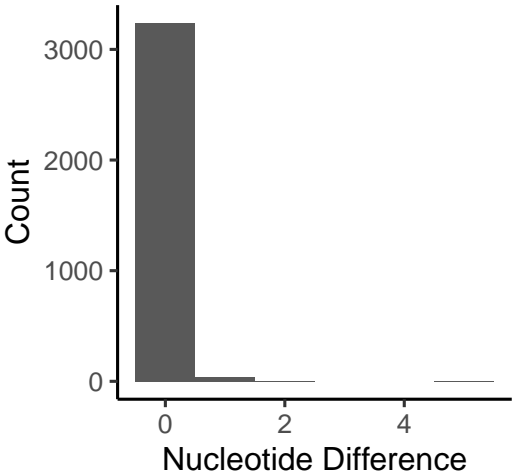
TRBV6-7\*ap01

250 sequences assigned  
245 (98%) exact matches, in which:  
242 unique CDR3  
13 unique J



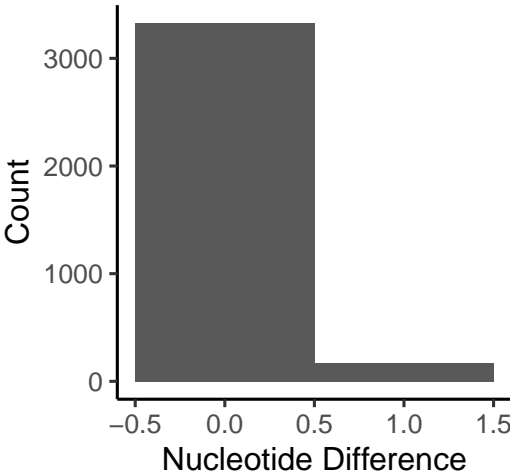
TRBV5-6\*ap01

3281 sequences assigned  
3238 (98.7%) exact matches, in which:  
3141 unique CDR3  
13 unique J



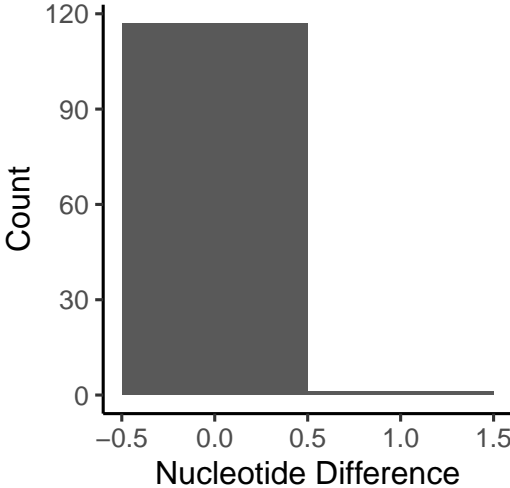
TRBV6-1\*ap01

3496 sequences assigned  
3328 (95.2%) exact matches, in which:  
3240 unique CDR3  
13 unique J



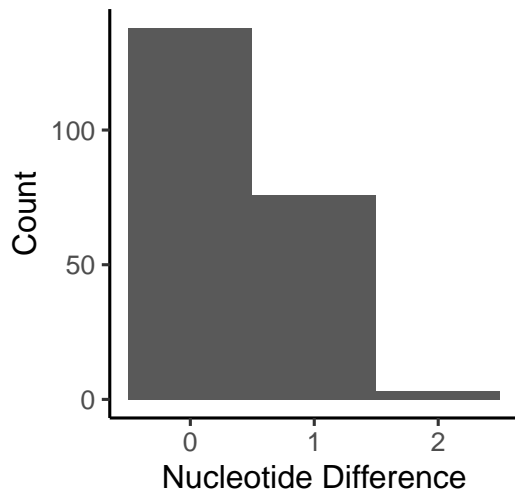
TRBV6-8\*ap01

118 sequences assigned  
117 (99.2%) exact matches, in which:  
115 unique CDR3  
13 unique J



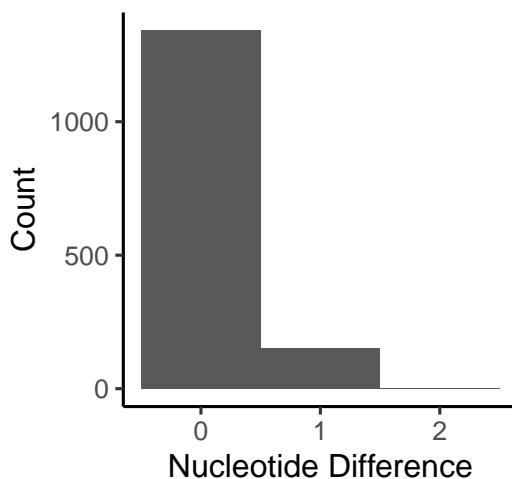
### TRBV6-9\*ap01

217 sequences assigned  
138 (63.6%) exact matches, in which:  
136 unique CDR3  
13 unique J



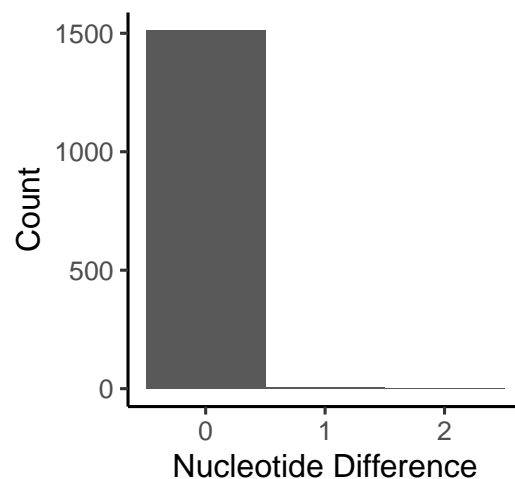
### TRBV6-56\*ap02

1497 sequences assigned  
1342 (89.6%) exact matches, in which:  
1310 unique CDR3  
13 unique J



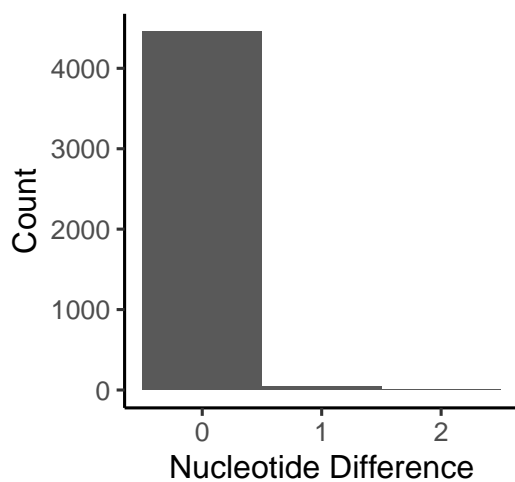
### TRBV7-2\*ap01\_G297A

1519 sequences assigned  
1512 (99.5%) exact matches, in which:  
1482 unique CDR3  
13 unique J



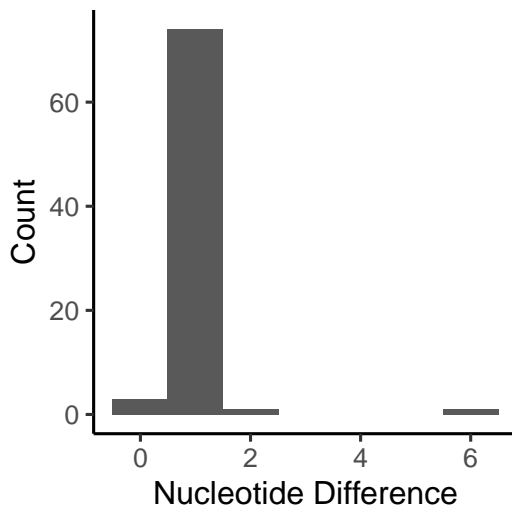
### TRBV6-23\*ap01

4501 sequences assigned  
4455 (99%) exact matches, in which:  
4345 unique CDR3  
13 unique J



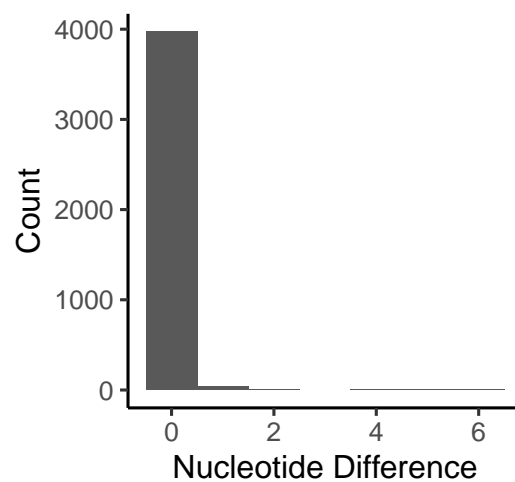
### TRBV7-1\*ap01\_T296C

79 sequences assigned  
3 (3.8%) exact matches, in which:  
3 unique CDR3  
3 unique J



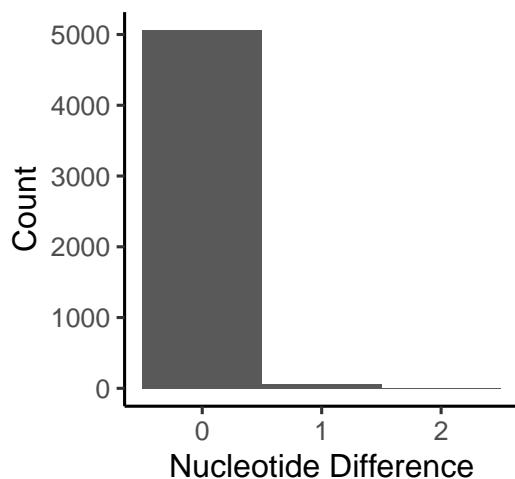
### TRBV7-3\*ap01

4020 sequences assigned  
3972 (98.8%) exact matches, in which:  
3899 unique CDR3  
13 unique J



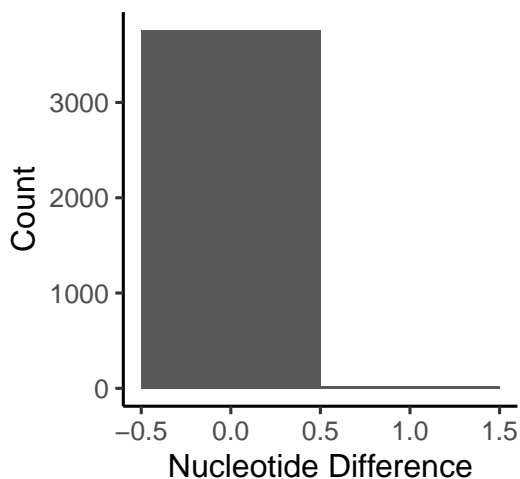
### TRBV6-56\*ap01

5127 sequences assigned  
5063 (98.8%) exact matches, in which:  
4920 unique CDR3  
13 unique J



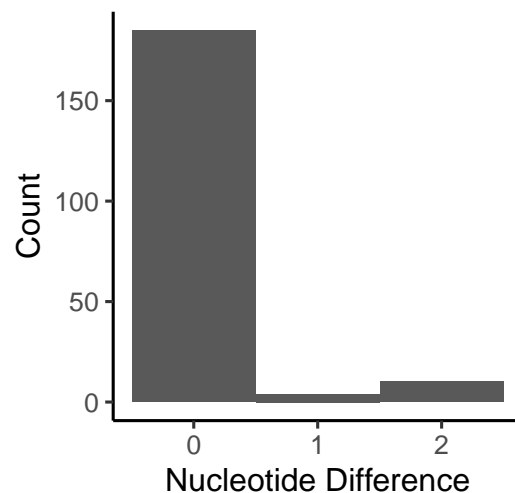
### TRBV7-2\*ap01

3786 sequences assigned  
3760 (99.3%) exact matches, in which:  
3683 unique CDR3  
13 unique J



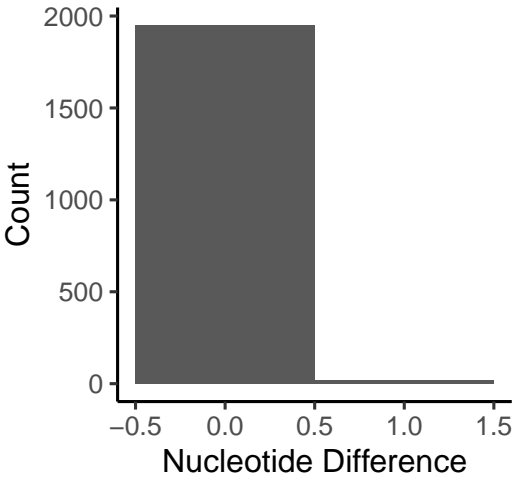
### TRBV7-4\*ap01

199 sequences assigned  
185 (93%) exact matches, in which:  
177 unique CDR3  
13 unique J



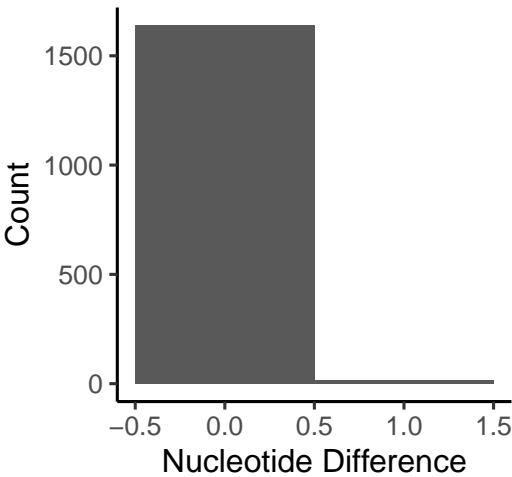
TRBV7-6\*ap01

1970 sequences assigned  
1949 (98.9%) exact matches, in which:  
1912 unique CDR3  
13 unique J



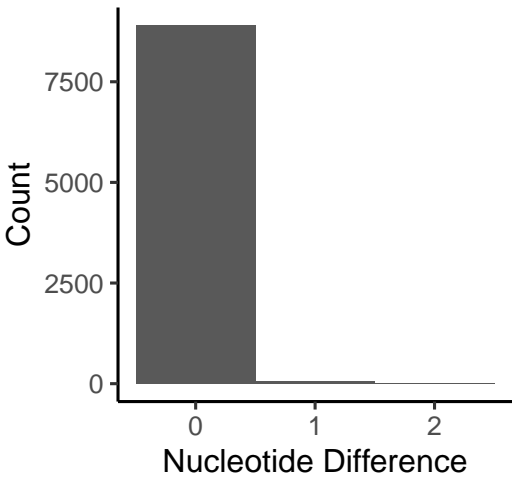
TRBV7-8\*ap01

1654 sequences assigned  
1639 (99.1%) exact matches, in which:  
1607 unique CDR3  
13 unique J



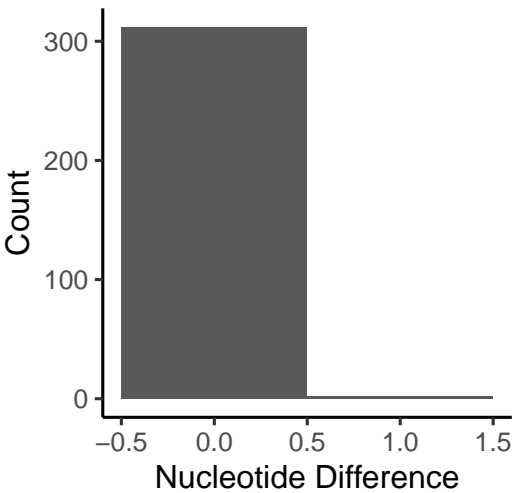
TRBV7-9\*ap01

8963 sequences assigned  
8900 (99.3%) exact matches, in which:  
8742 unique CDR3  
13 unique J



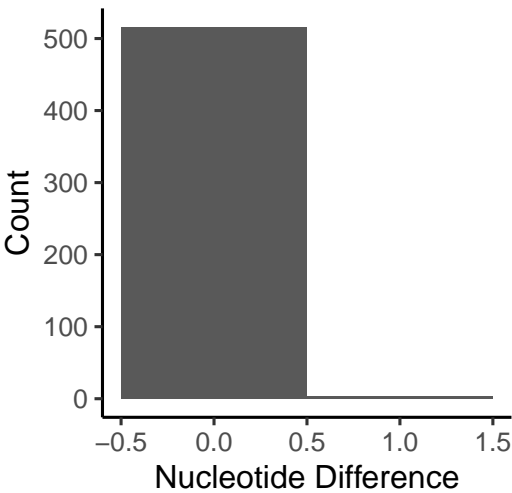
TRBV7-7\*ap01

314 sequences assigned  
312 (99.4%) exact matches, in which:  
304 unique CDR3  
13 unique J



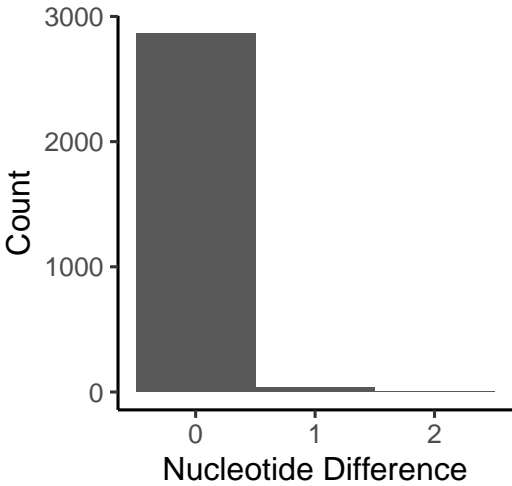
TRBV7-8\*ap03

520 sequences assigned  
516 (99.2%) exact matches, in which:  
501 unique CDR3  
13 unique J



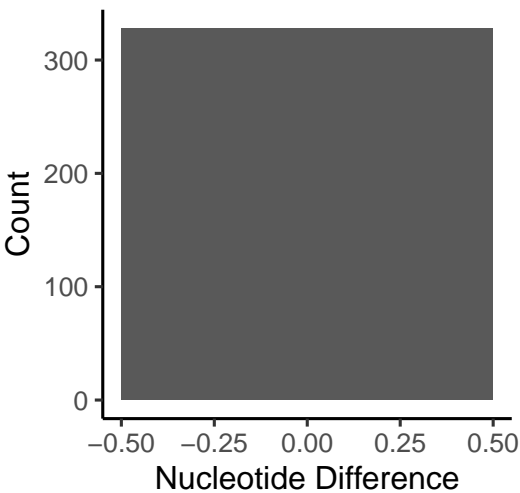
TRBV29-1\*ap01

2899 sequences assigned  
2862 (98.7%) exact matches, in which:  
2798 unique CDR3  
13 unique J



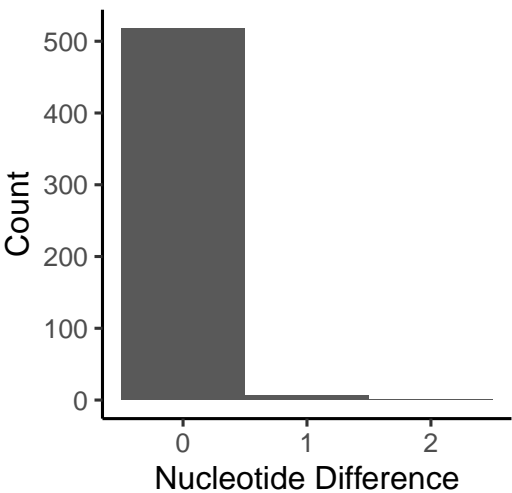
TRBV7-7\*ap01\_C315T

328 sequences assigned  
328 (100%) exact matches, in which:  
315 unique CDR3  
13 unique J



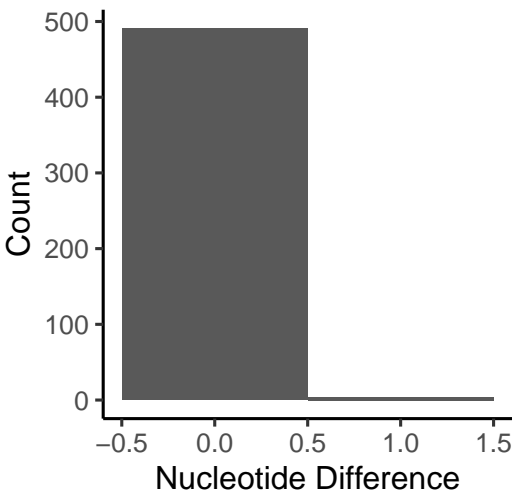
TRBV7-8\*ap03\_C297A

525 sequences assigned  
518 (98.7%) exact matches, in which:  
507 unique CDR3  
13 unique J

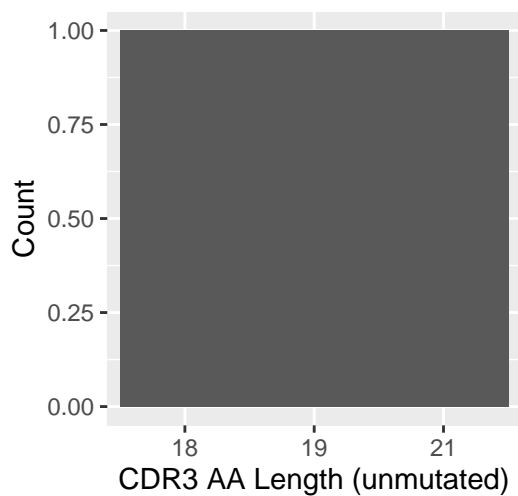


TRBV29-1\*ap02

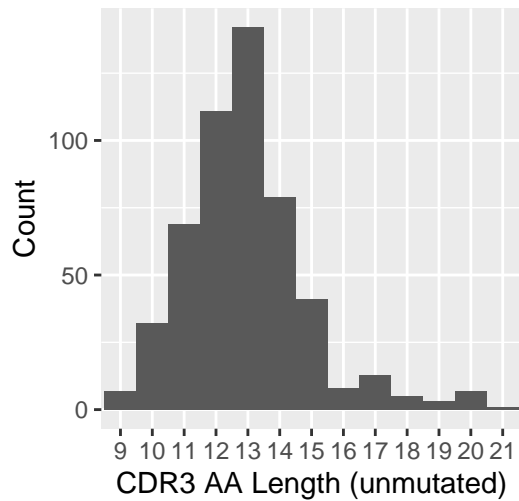
495 sequences assigned  
491 (99.2%) exact matches, in which:  
485 unique CDR3  
13 unique J



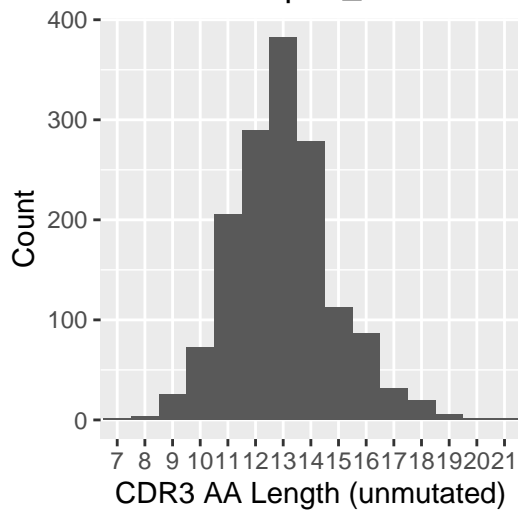
TRBV7-1\*ap01\_T296C



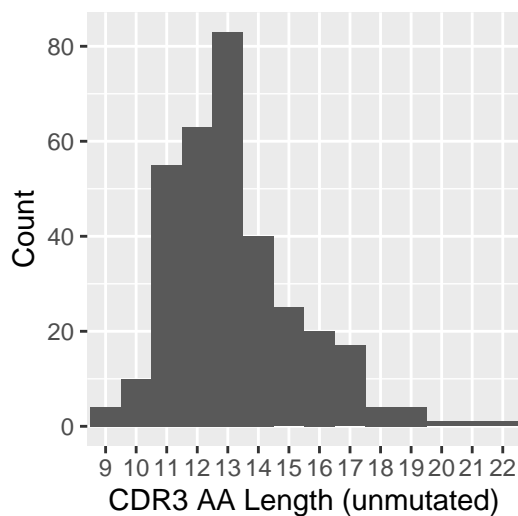
TRBV7-8\*ap03\_C297A



TRBV7-2\*ap01\_G297A



TRBV7-7\*ap01\_C315T





[illegible]