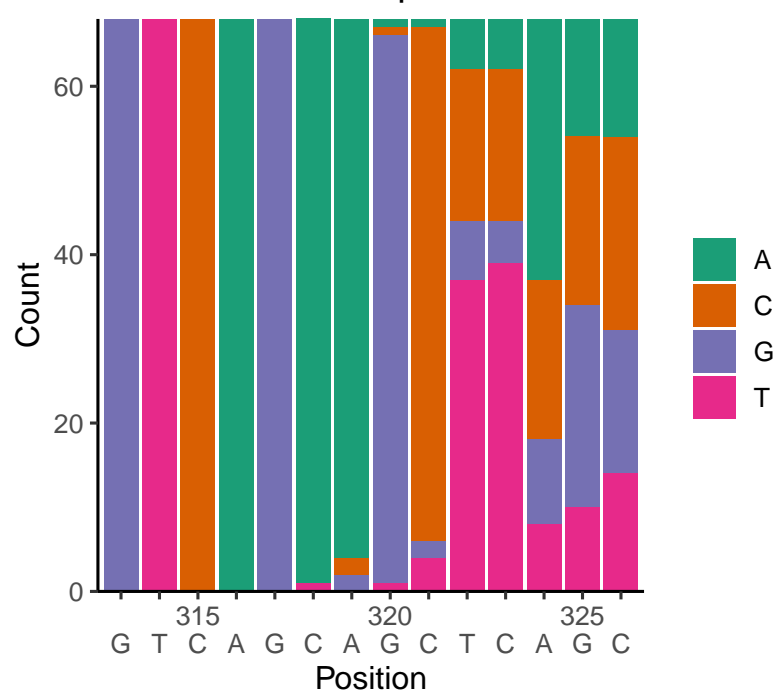
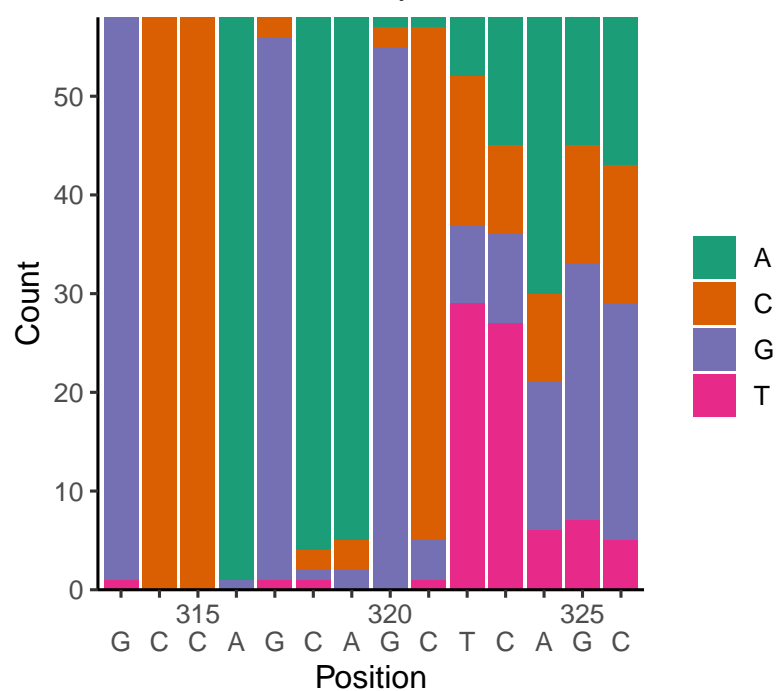


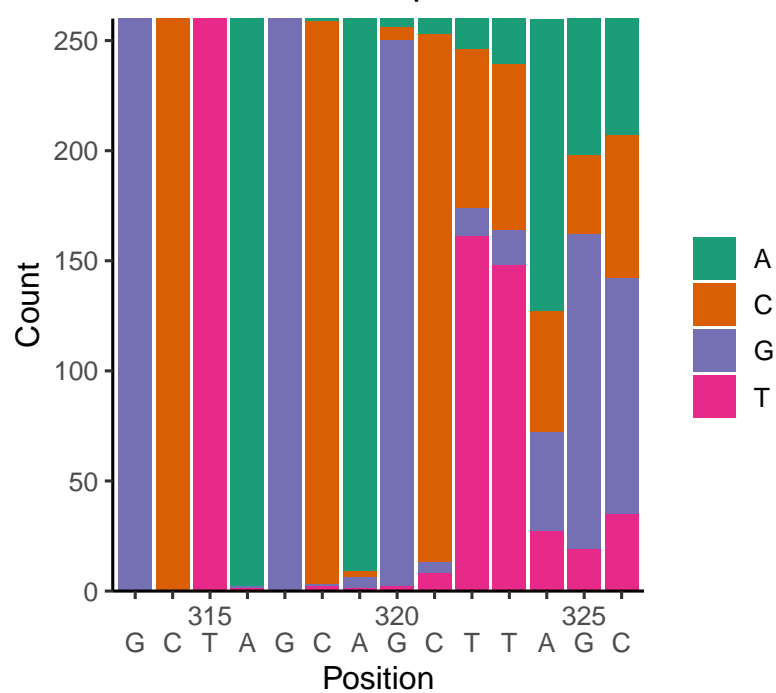
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



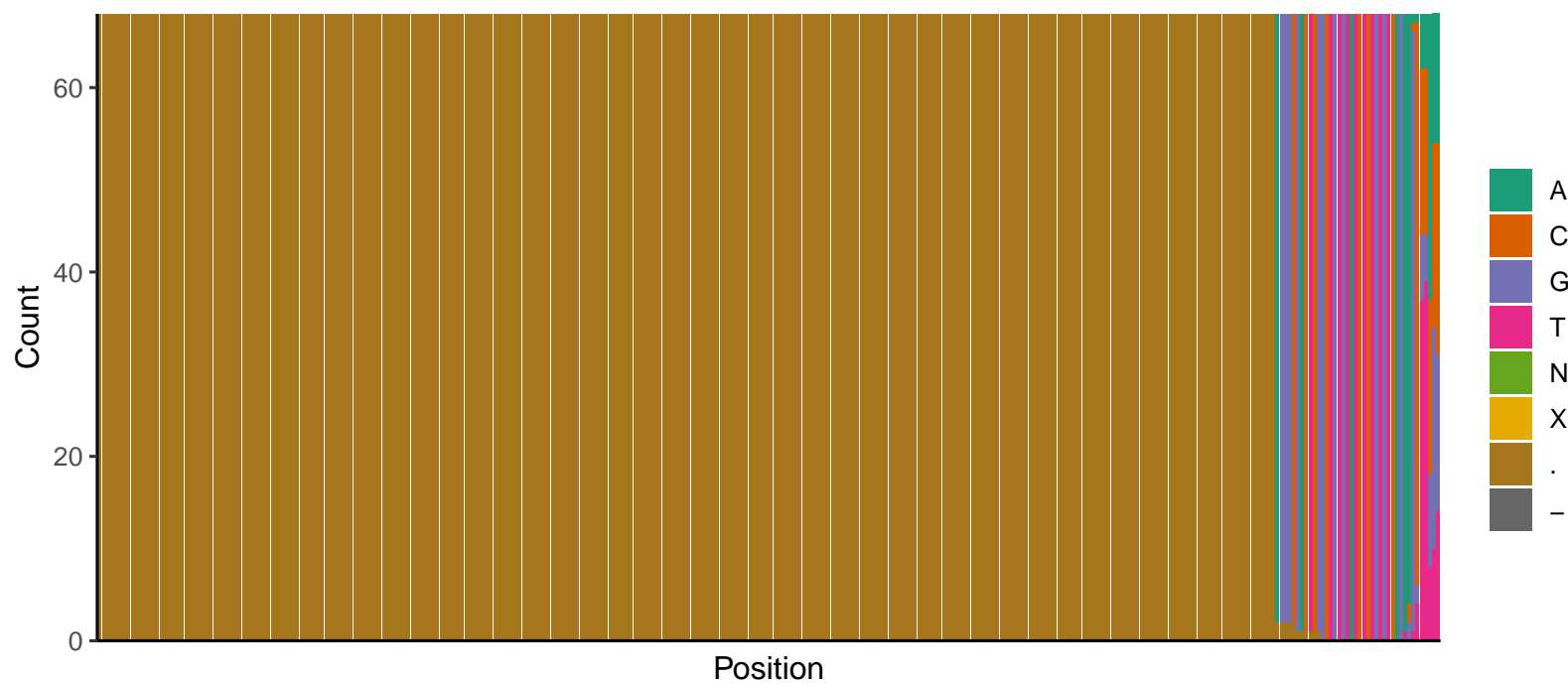
Gene TRBV7-1\*ap01\_G291C\_T296C



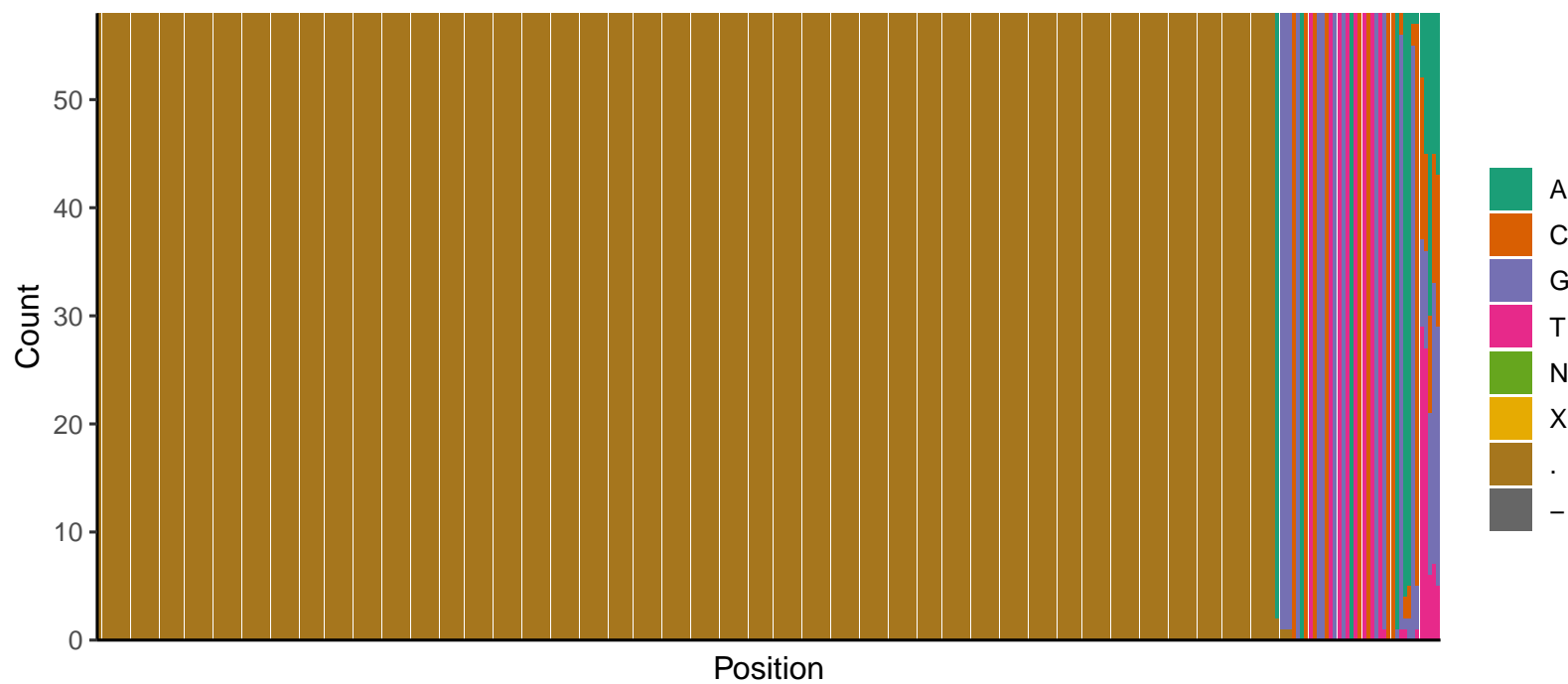
Gene TRBV7-7\*ap01\_C315T



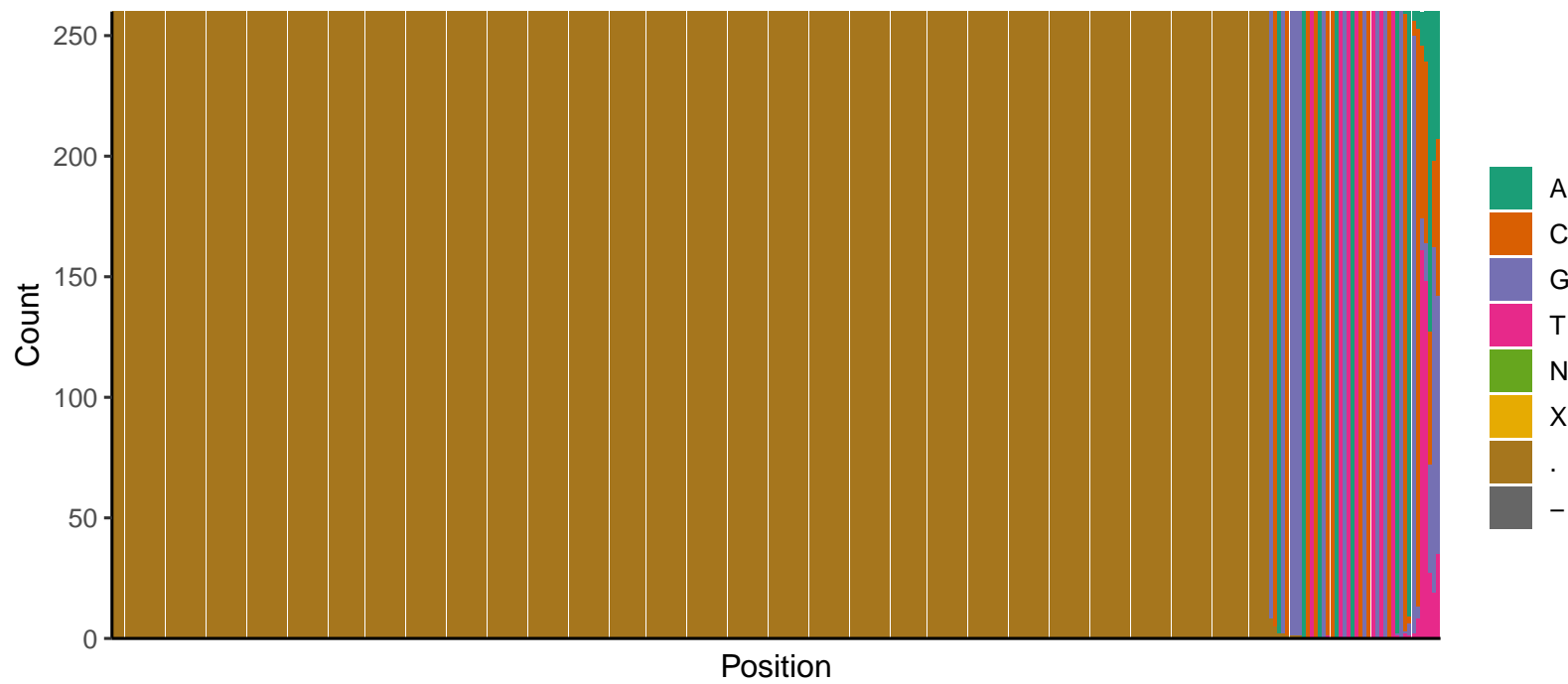
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



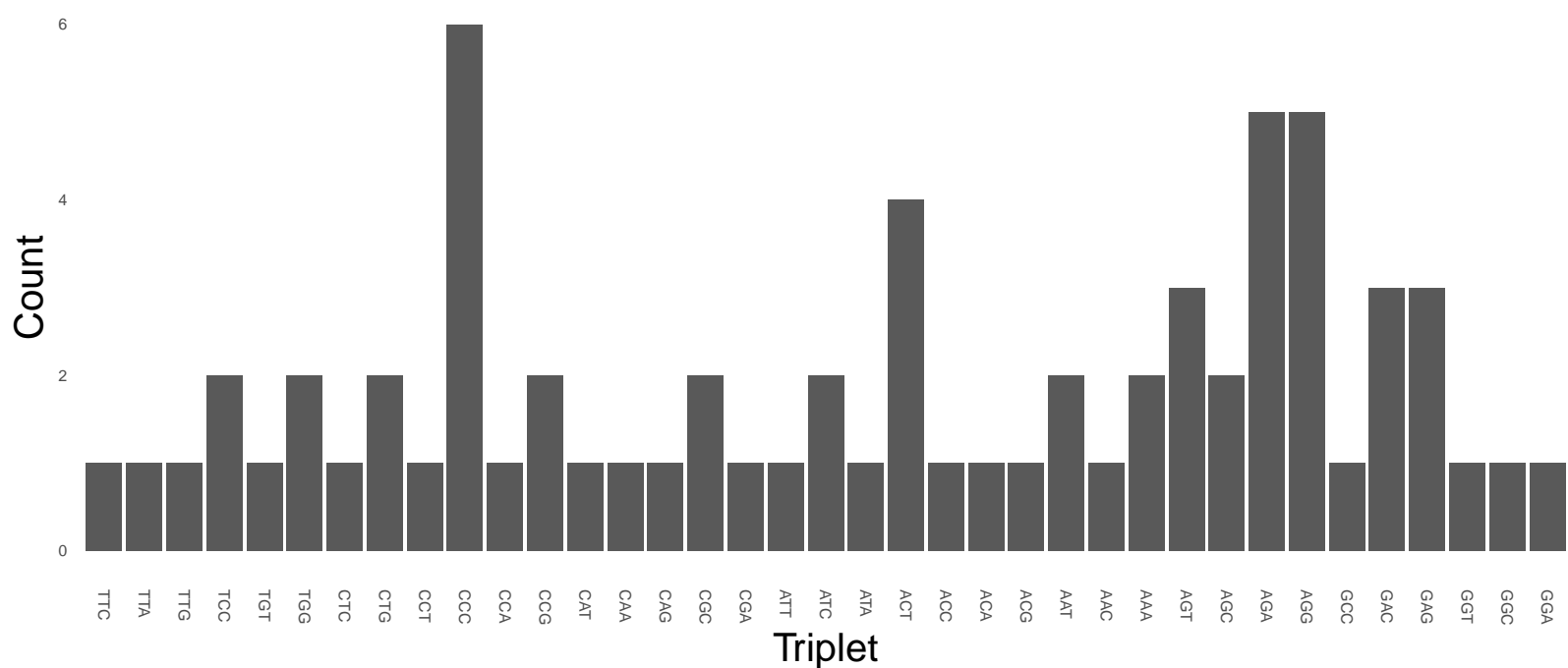
Gene TRBV7-1\*ap01\_G291C\_T296C



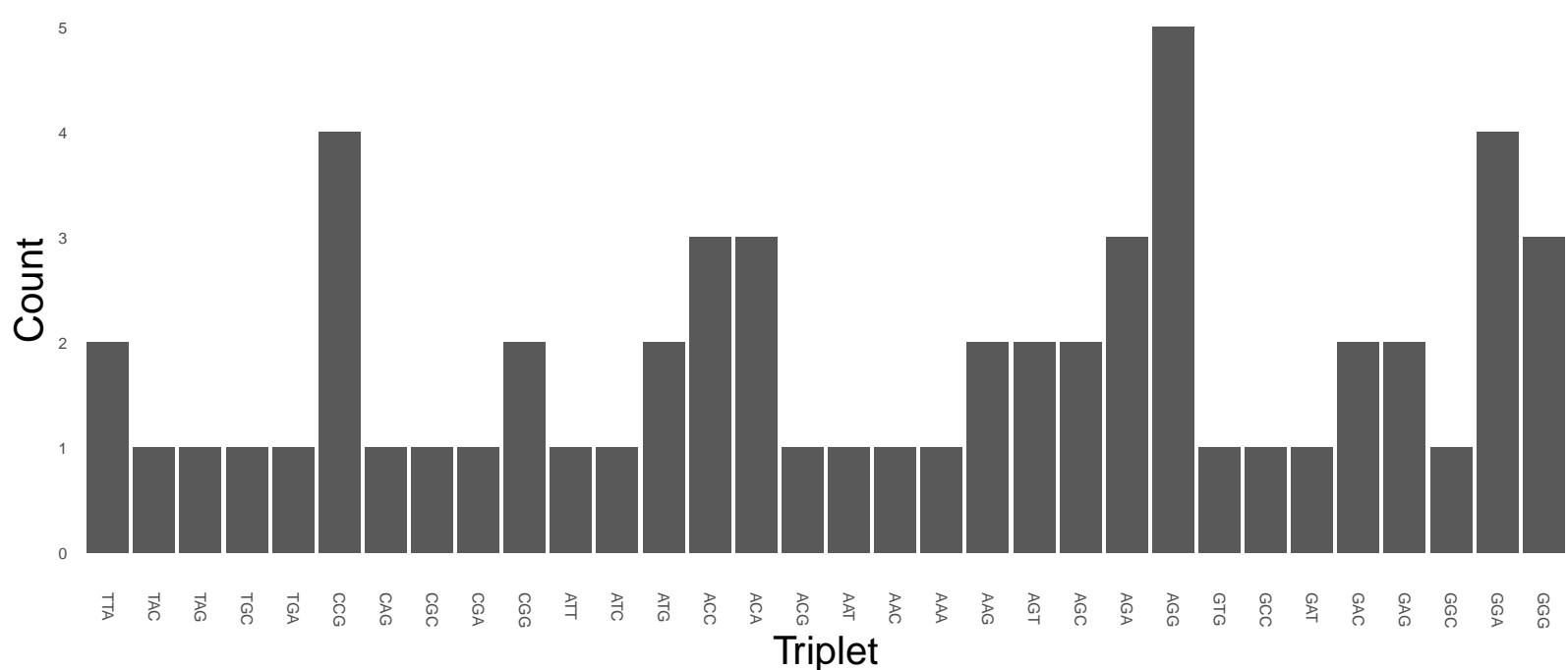
Gene TRBV7-7\*ap01\_C315T



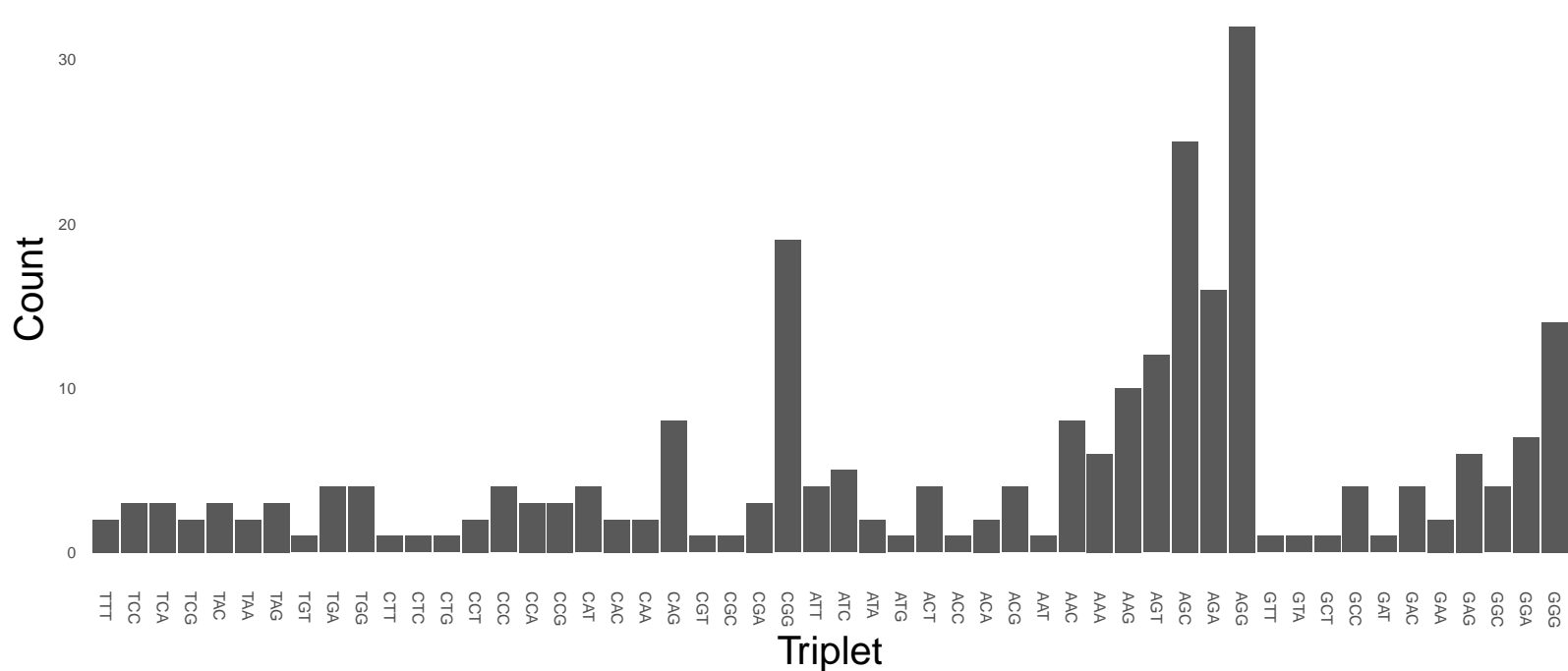
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet

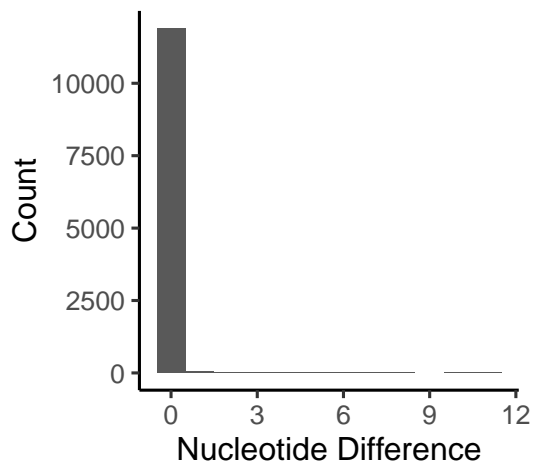


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



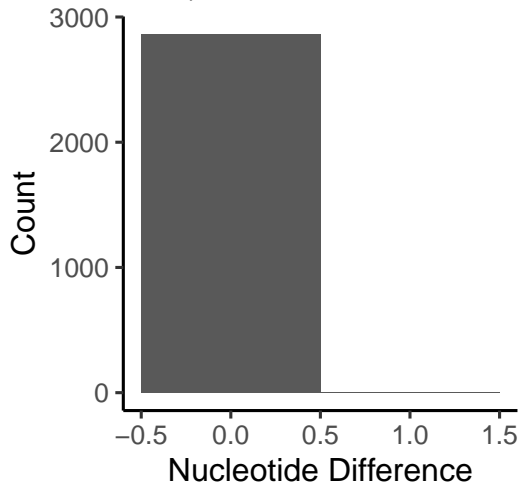
### TRBV20-1\*ap01

11967 sequences assigned  
11903 (99.5%) exact matches, in which:  
11845 unique CDR3  
13 unique J



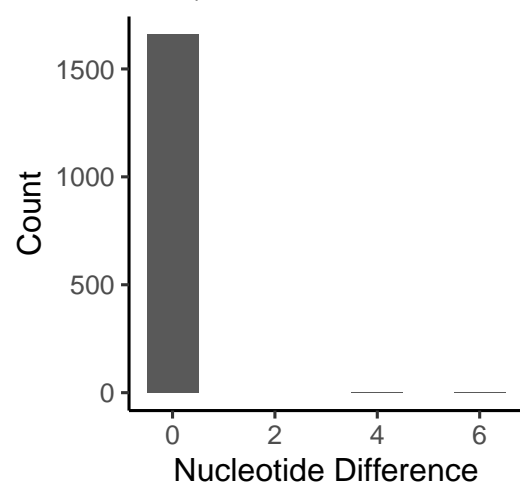
### TRBV10-3\*ap01

2866 sequences assigned  
2861 (99.8%) exact matches, in which:  
2856 unique CDR3  
13 unique J



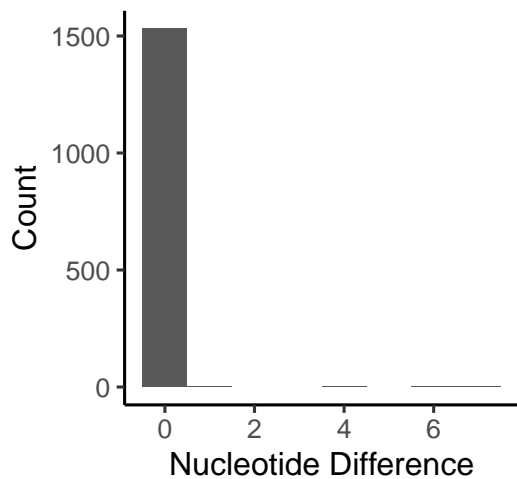
### TRBV14\*ap01

1662 sequences assigned  
1660 (99.9%) exact matches, in which:  
1659 unique CDR3  
13 unique J



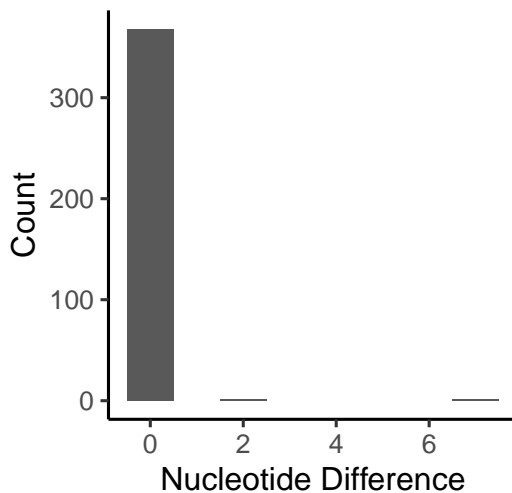
### TRBV10-1\*ap01

1536 sequences assigned  
1531 (99.7%) exact matches, in which:  
1529 unique CDR3  
13 unique J



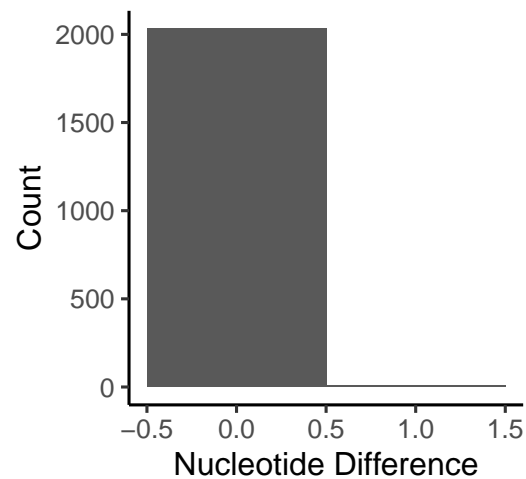
### TRBV1\*ap01

370 sequences assigned  
368 (99.5%) exact matches, in which:  
362 unique CDR3  
13 unique J



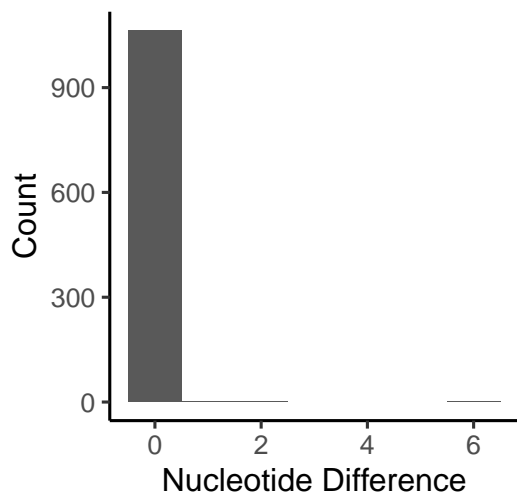
### TRBV15\*ap02

2038 sequences assigned  
2032 (99.7%) exact matches, in which:  
2025 unique CDR3  
13 unique J



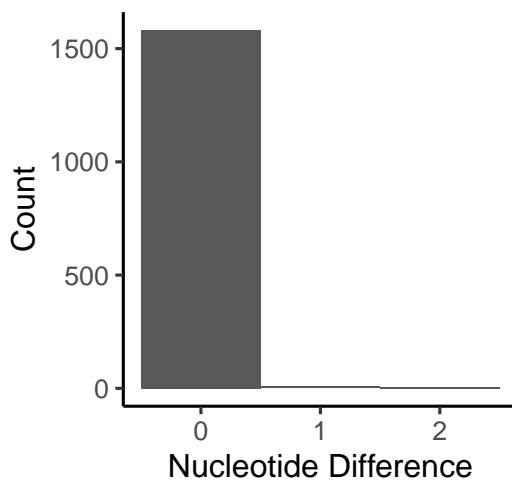
### TRBV10-2\*ap01

1067 sequences assigned  
1064 (99.7%) exact matches, in which:  
1064 unique CDR3  
13 unique J



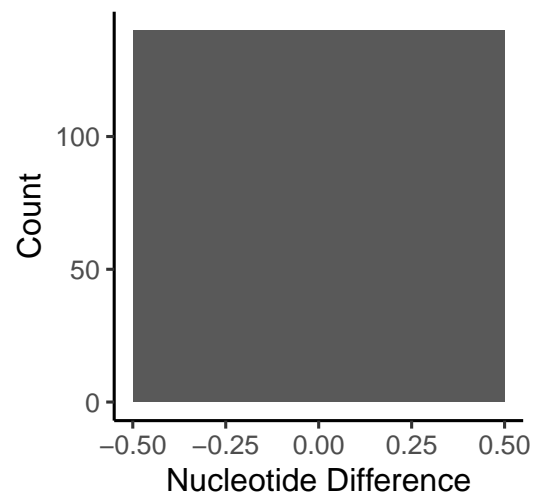
### TRBV13\*ap01

1596 sequences assigned  
1582 (99.1%) exact matches, in which:  
1579 unique CDR3  
13 unique J



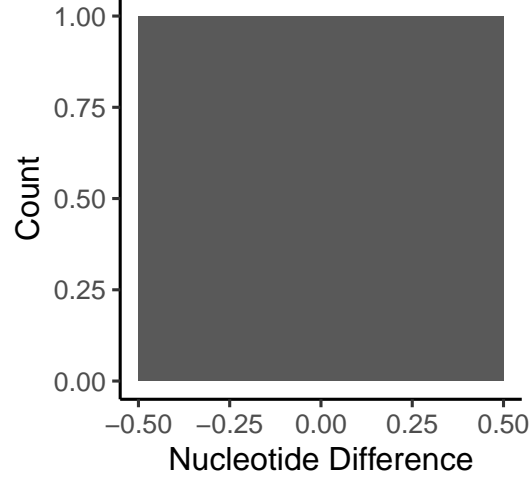
### TRBV16\*ap01

140 sequences assigned  
140 (100%) exact matches, in which:  
140 unique CDR3  
13 unique J



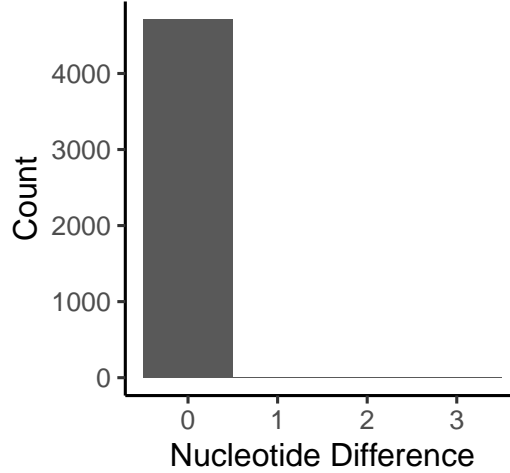
### TRBV17\*ap01

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



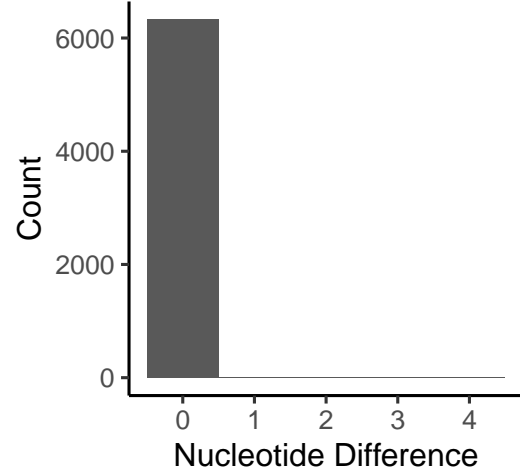
### TRBV2\*ap01

4725 sequences assigned  
4711 (99.7%) exact matches, in which:  
4693 unique CDR3  
13 unique J



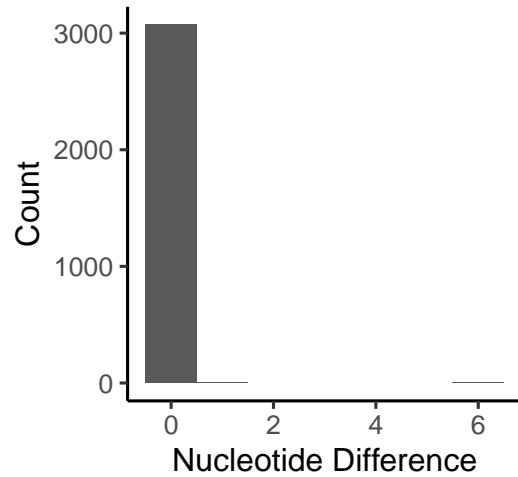
### TRBV28\*ap01

6349 sequences assigned  
6329 (99.7%) exact matches, in which:  
6315 unique CDR3  
13 unique J



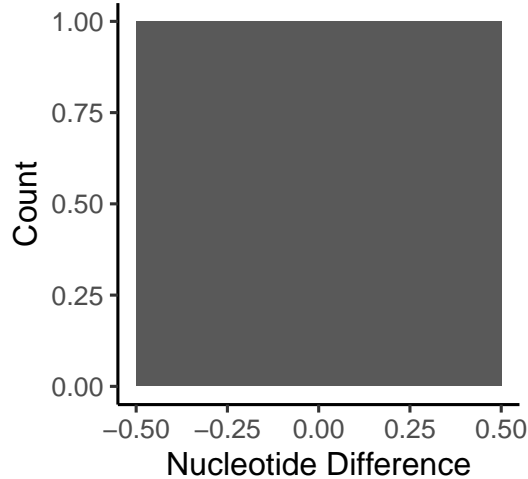
### TRBV18\*ap01

3078 sequences assigned  
3072 (99.8%) exact matches, in which:  
3069 unique CDR3  
13 unique J



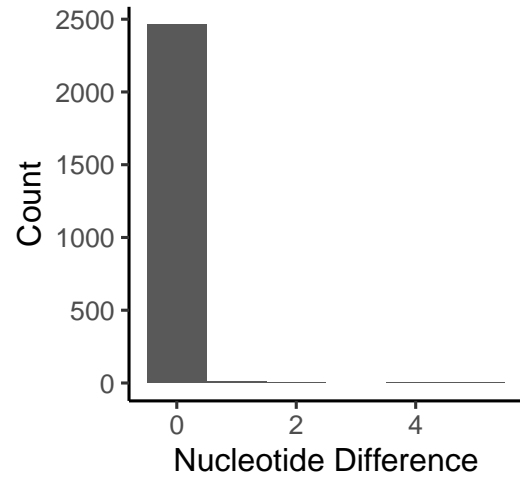
### TRBV26\*ap01

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



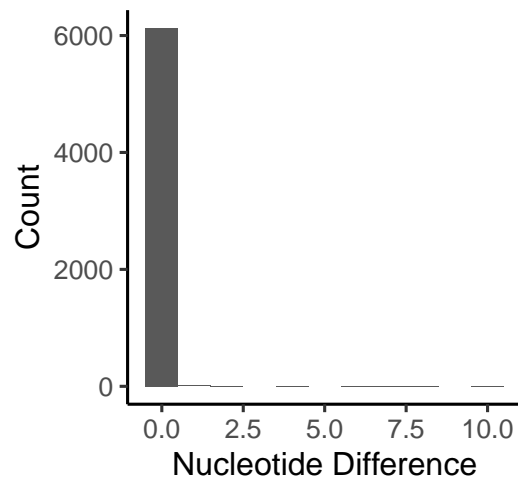
### TRBV30\*ap01

2475 sequences assigned  
2462 (99.5%) exact matches, in which:  
2448 unique CDR3  
13 unique J



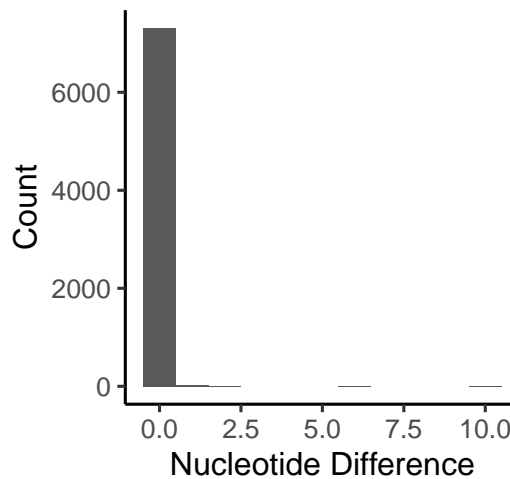
### TRBV19\*ap01

6149 sequences assigned  
6128 (99.7%) exact matches, in which:  
6124 unique CDR3  
13 unique J



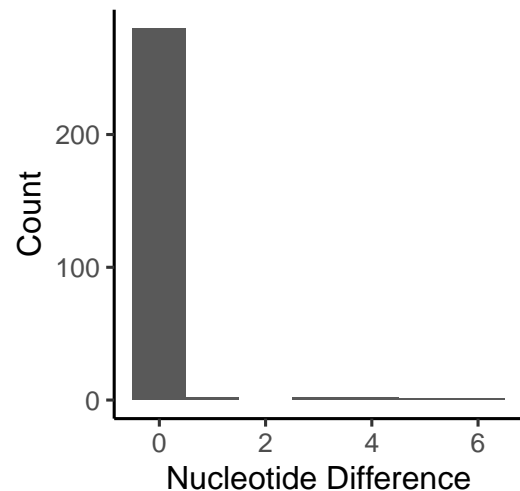
### TRBV27\*ap01

7340 sequences assigned  
7311 (99.6%) exact matches, in which:  
7282 unique CDR3  
14 unique J



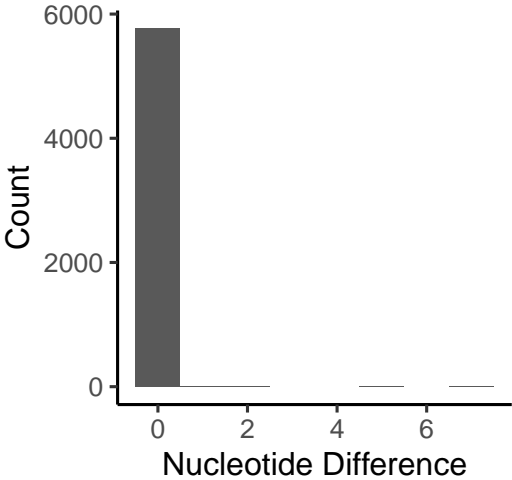
### TRBV30\*ap02

288 sequences assigned  
280 (97.2%) exact matches, in which:  
279 unique CDR3  
13 unique J



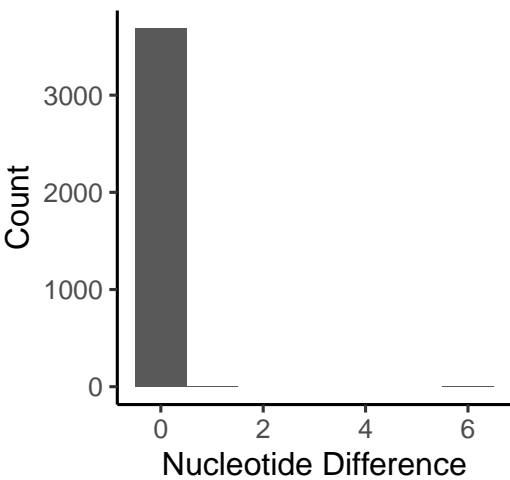
TRBV9\*ap01

5779 sequences assigned  
5769 (99.8%) exact matches, in which:  
5751 unique CDR3  
13 unique J



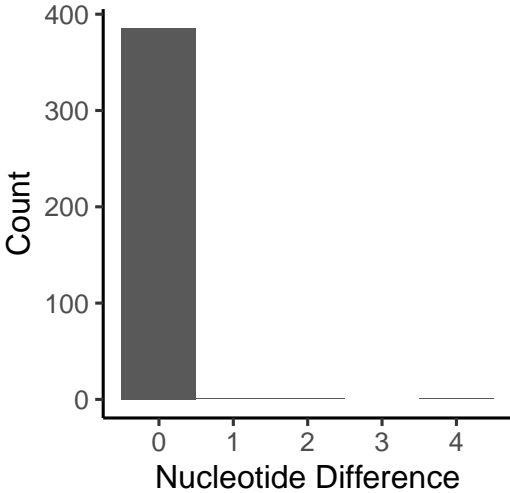
TRBV11-2\*ap01

3692 sequences assigned  
3687 (99.9%) exact matches, in which:  
3684 unique CDR3  
13 unique J



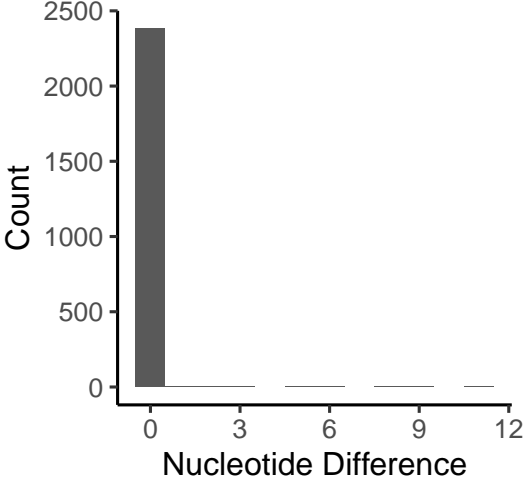
TRBV12-2\*ap01

389 sequences assigned  
386 (99.2%) exact matches, in which:  
385 unique CDR3  
13 unique J



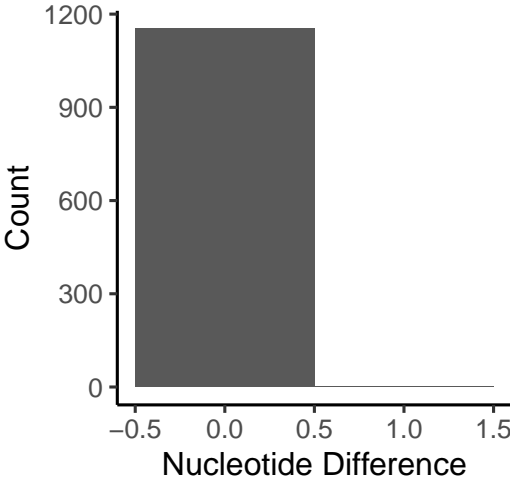
TRBV21-1\*ap01

2394 sequences assigned  
2381 (99.5%) exact matches, in which:  
2379 unique CDR3  
13 unique J



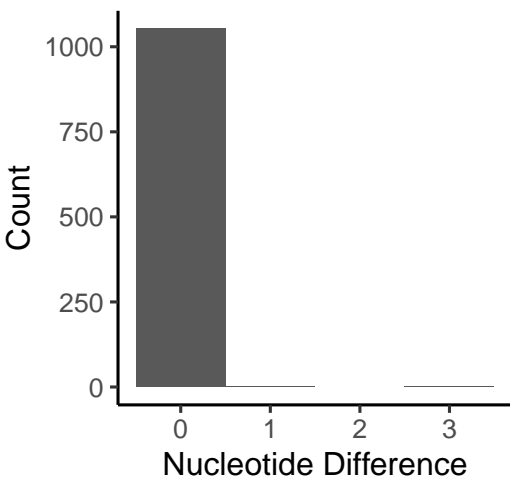
TRBV11-3\*ap01

1154 sequences assigned  
1153 (99.9%) exact matches, in which:  
1150 unique CDR3  
13 unique J



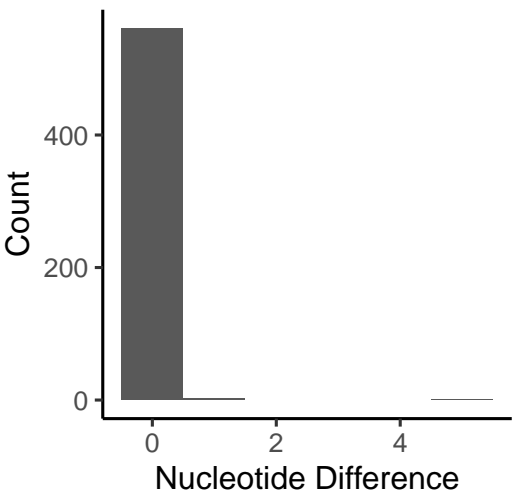
TRBV12-5\*ap01

1055 sequences assigned  
1053 (99.8%) exact matches, in which:  
1052 unique CDR3  
13 unique J



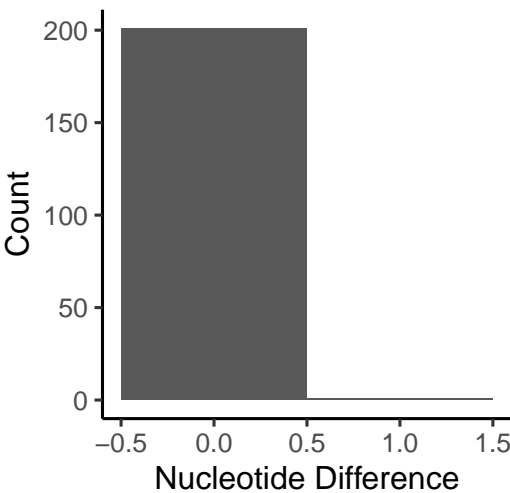
TRBV11-1\*ap01

564 sequences assigned  
561 (99.5%) exact matches, in which:  
561 unique CDR3  
13 unique J



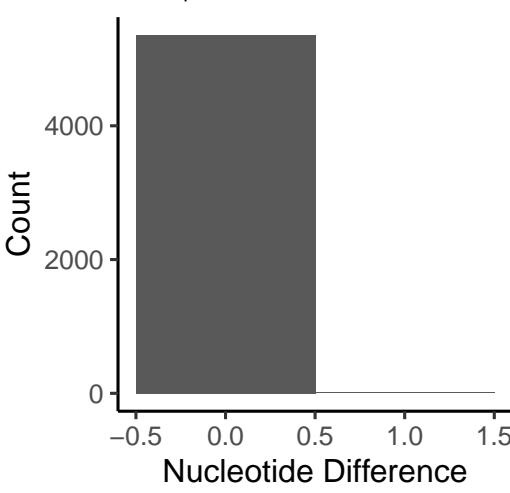
TRBV12-1\*ap01

202 sequences assigned  
201 (99.5%) exact matches, in which:  
201 unique CDR3  
13 unique J



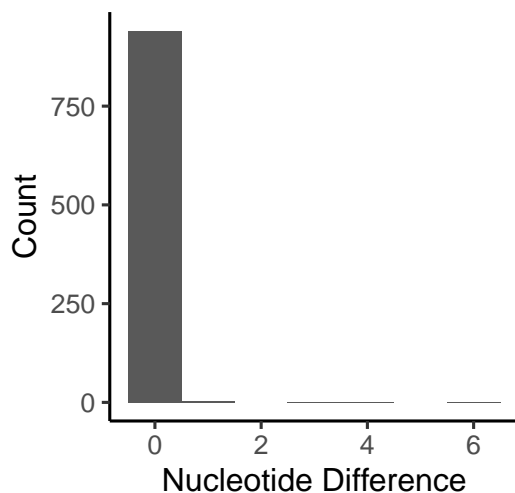
TRBV12-34\*ap01

5367 sequences assigned  
5357 (99.8%) exact matches, in which:  
5348 unique CDR3  
13 unique J



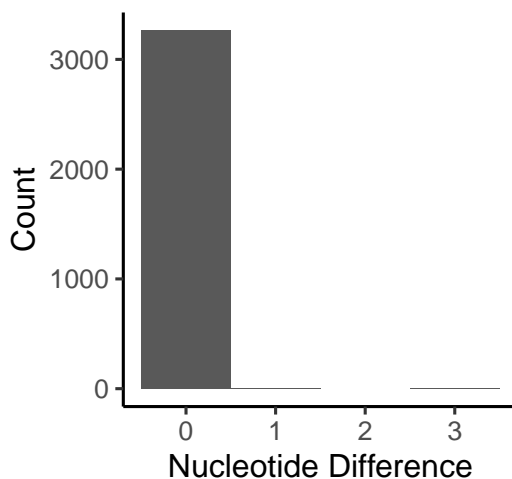
### TRBV23-1\*ap01

948 sequences assigned  
941 (99.3%) exact matches, in which:  
938 unique CDR3  
13 unique J



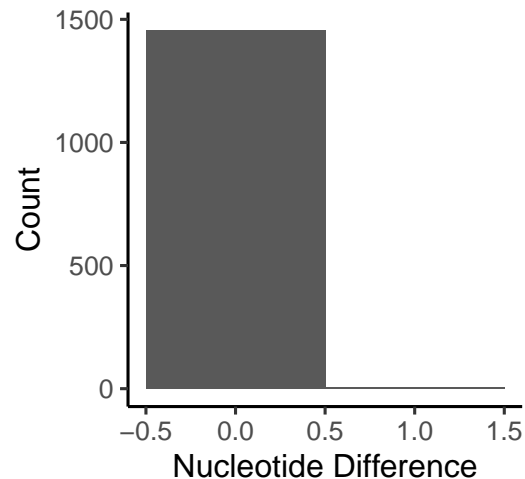
### TRBV4-1\*ap01

3269 sequences assigned  
3264 (99.8%) exact matches, in which:  
3246 unique CDR3  
13 unique J



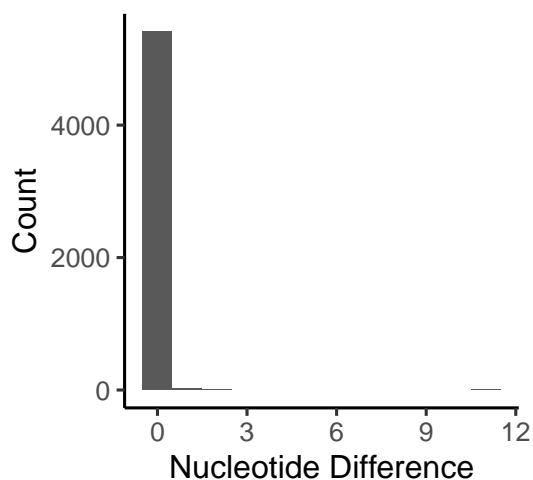
### TRBV25-1\*ap01

1460 sequences assigned  
1455 (99.7%) exact matches, in which:  
1447 unique CDR3  
13 unique J



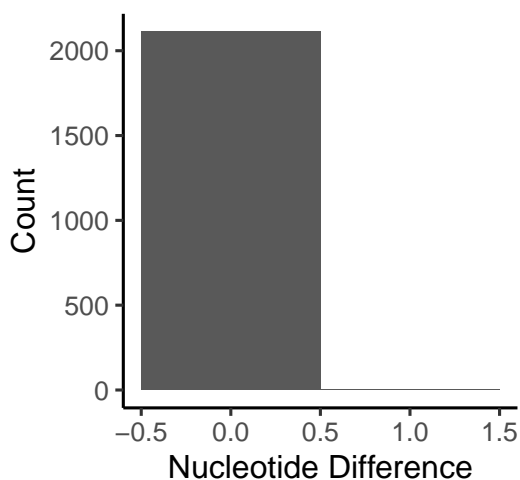
### TRBV3-12\*ap01

5432 sequences assigned  
5411 (99.6%) exact matches, in which:  
5400 unique CDR3  
13 unique J



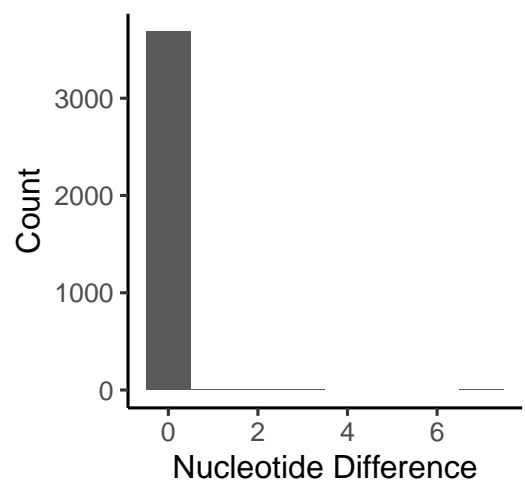
### TRBV4-2\*ap01

2114 sequences assigned  
2112 (99.9%) exact matches, in which:  
2100 unique CDR3  
13 unique J



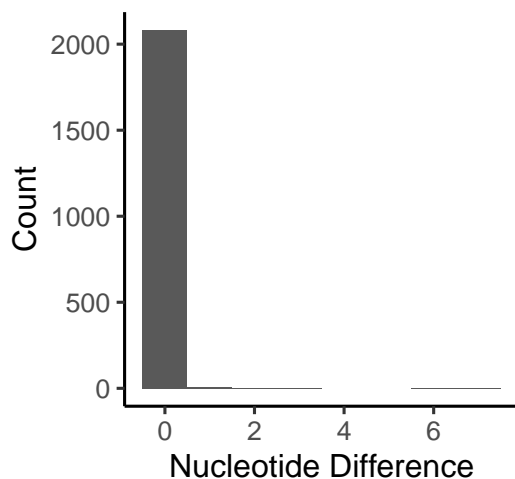
### TRBV5-1\*ap01

3697 sequences assigned  
3684 (99.6%) exact matches, in which:  
3673 unique CDR3  
13 unique J



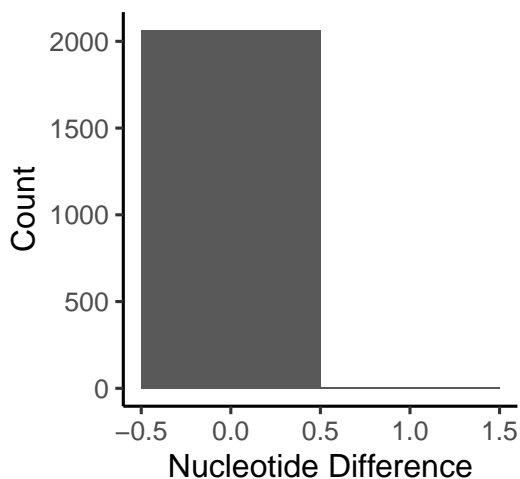
### TRBV24-1\*ap01

2093 sequences assigned  
2082 (99.5%) exact matches, in which:  
2079 unique CDR3  
13 unique J



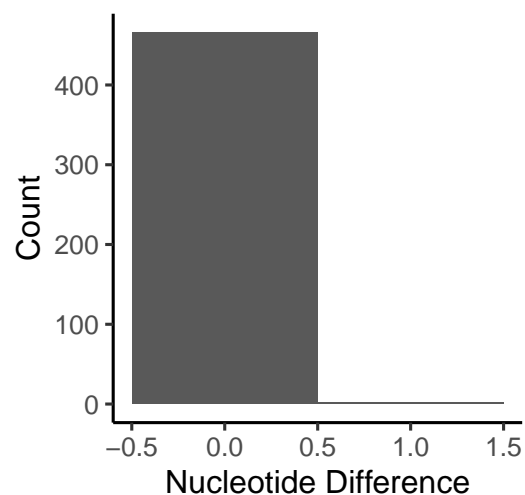
### TRBV4-3\*ap01

2073 sequences assigned  
2065 (99.6%) exact matches, in which:  
2058 unique CDR3  
13 unique J



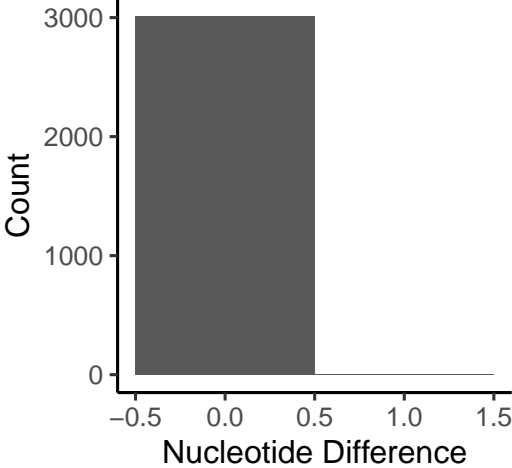
### TRBV5-3\*ap01

468 sequences assigned  
466 (99.6%) exact matches, in which:  
466 unique CDR3  
13 unique J



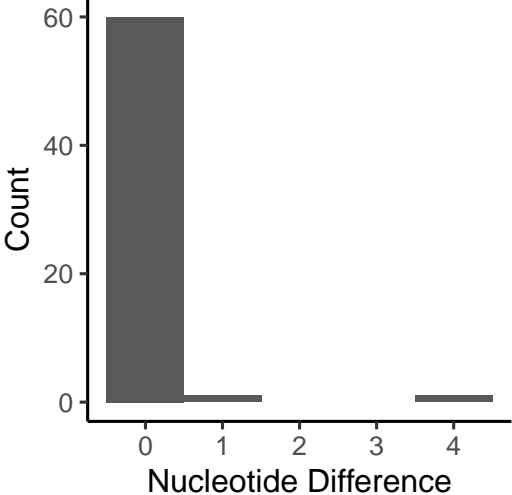
TRBV5-4\*ap01

3014 sequences assigned  
3010 (99.9%) exact matches, in which:  
3007 unique CDR3  
13 unique J



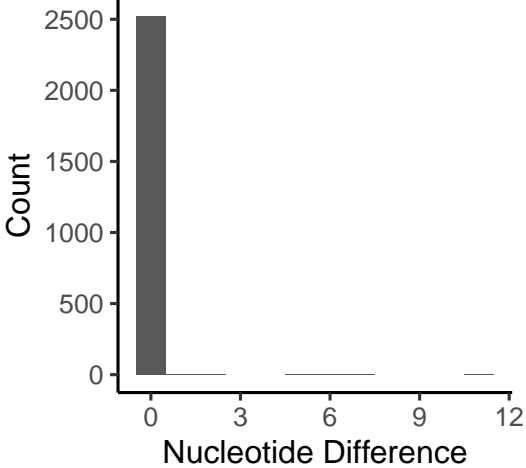
TRBV5-7\*ap01

62 sequences assigned  
60 (96.8%) exact matches, in which:  
59 unique CDR3  
12 unique J



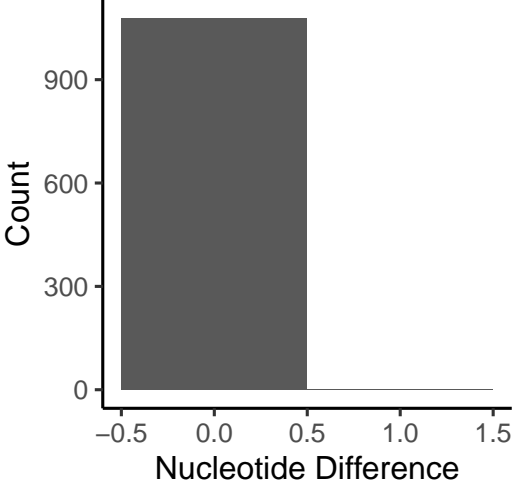
TRBV6-4\*ap01

2532 sequences assigned  
2520 (99.5%) exact matches, in which:  
2514 unique CDR3  
13 unique J



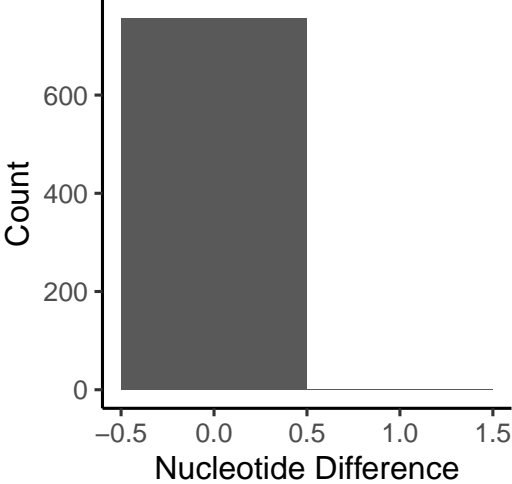
TRBV5-5\*ap01

1080 sequences assigned  
1079 (99.9%) exact matches, in which:  
1078 unique CDR3  
13 unique J



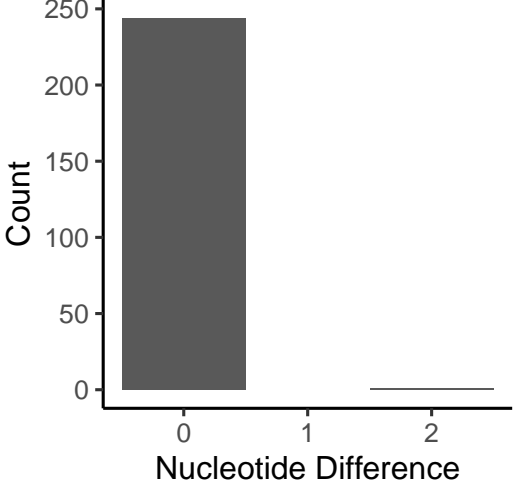
TRBV5-8\*ap01

759 sequences assigned  
757 (99.7%) exact matches, in which:  
757 unique CDR3  
13 unique J



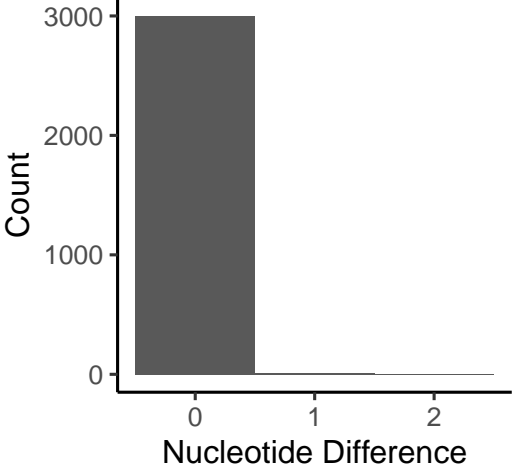
TRBV6-7\*ap01

245 sequences assigned  
244 (99.6%) exact matches, in which:  
242 unique CDR3  
13 unique J



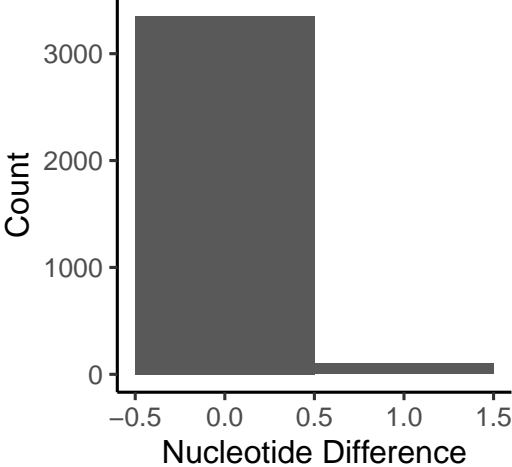
TRBV5-6\*ap01

3010 sequences assigned  
2999 (99.6%) exact matches, in which:  
2985 unique CDR3  
13 unique J



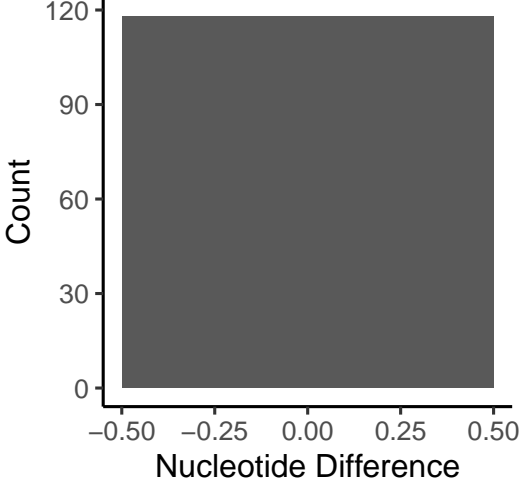
TRBV6-1\*ap01

3454 sequences assigned  
3352 (97%) exact matches, in which:  
3335 unique CDR3  
13 unique J



TRBV6-8\*ap01

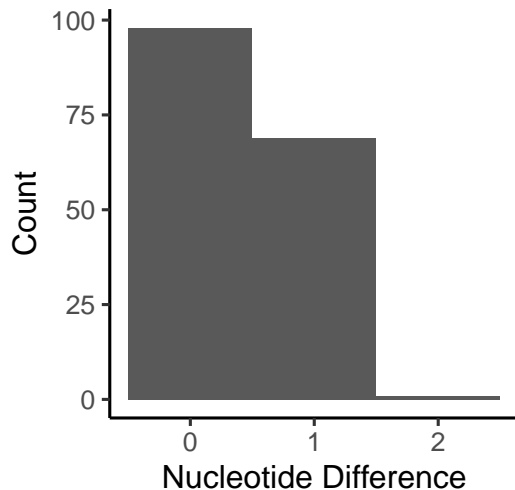
118 sequences assigned  
118 (100%) exact matches, in which:  
118 unique CDR3  
13 unique J





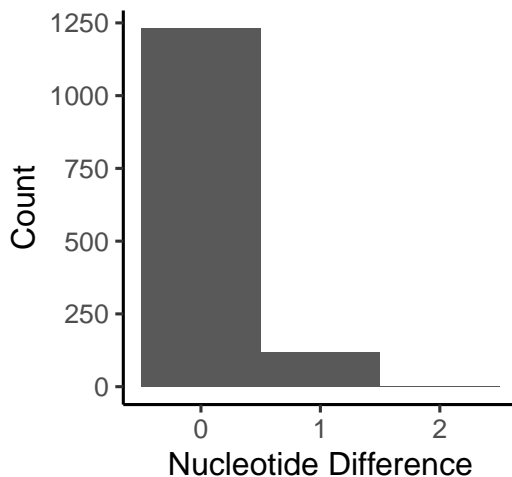
### TRBV6-9\*ap01

168 sequences assigned  
98 (58.3%) exact matches, in which:  
97 unique CDR3  
13 unique J



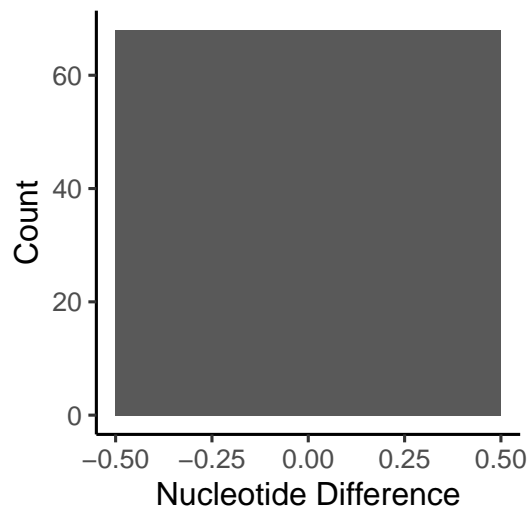
### TRBV6-56\*ap02

1349 sequences assigned  
1231 (91.3%) exact matches, in which:  
1226 unique CDR3  
13 unique J



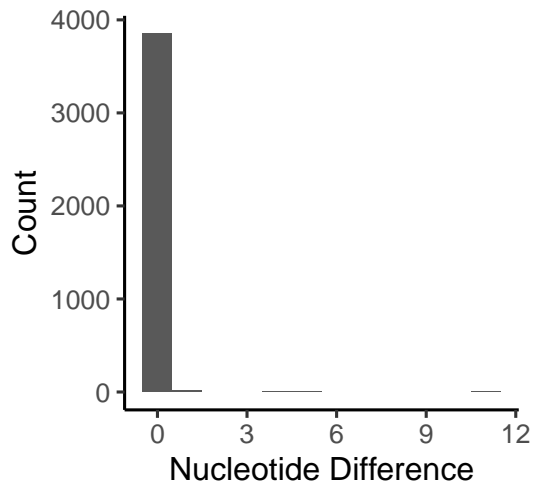
### TRBV7-1\*ap01\_G291C\_T

68 sequences assigned  
68 (100%) exact matches, in which:  
68 unique CDR3  
12 unique J



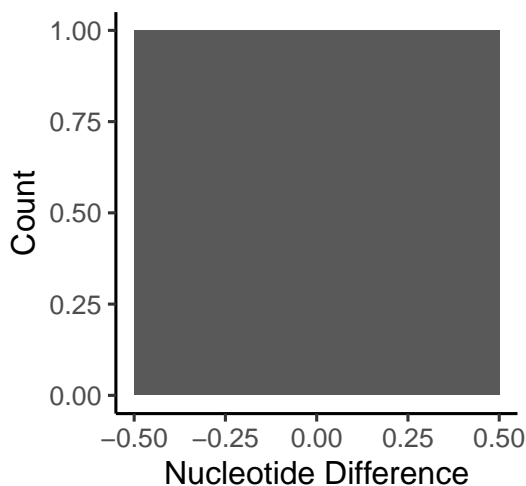
### TRBV6-23\*ap01

3867 sequences assigned  
3851 (99.6%) exact matches, in which:  
3843 unique CDR3  
13 unique J



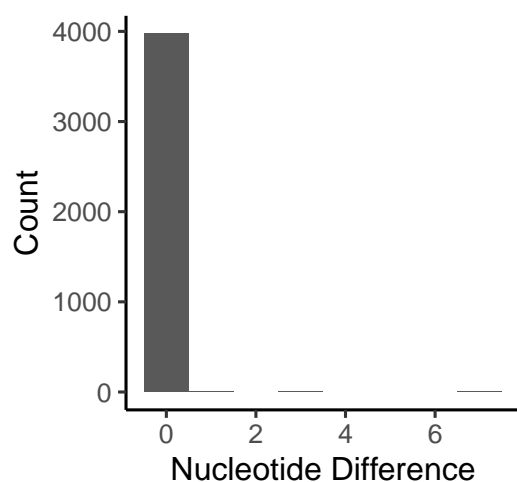
### TRBV7-1\*ap01

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



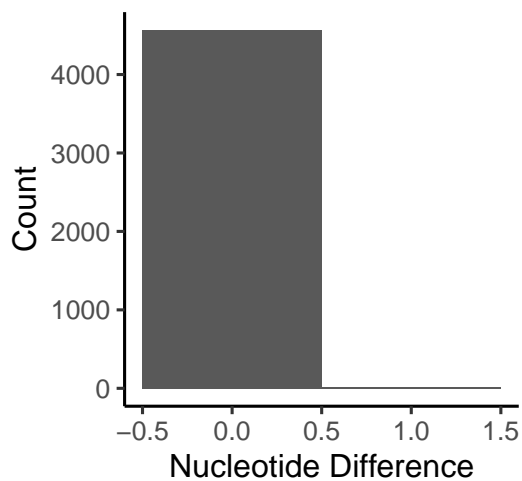
### TRBV7-2\*ap01

3980 sequences assigned  
3974 (99.8%) exact matches, in which:  
3971 unique CDR3  
13 unique J



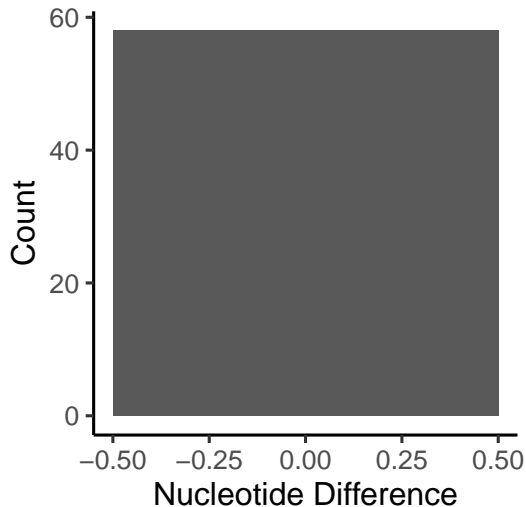
### TRBV6-56\*ap01

4581 sequences assigned  
4567 (99.7%) exact matches, in which:  
4552 unique CDR3  
13 unique J



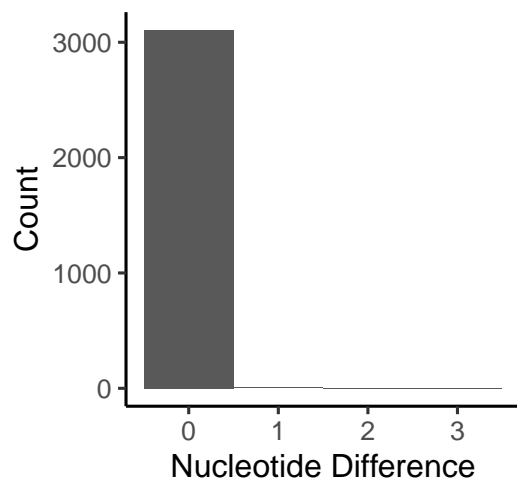
### TRBV7-1\*ap01\_G291C\_T

58 sequences assigned  
58 (100%) exact matches, in which:  
58 unique CDR3  
10 unique J



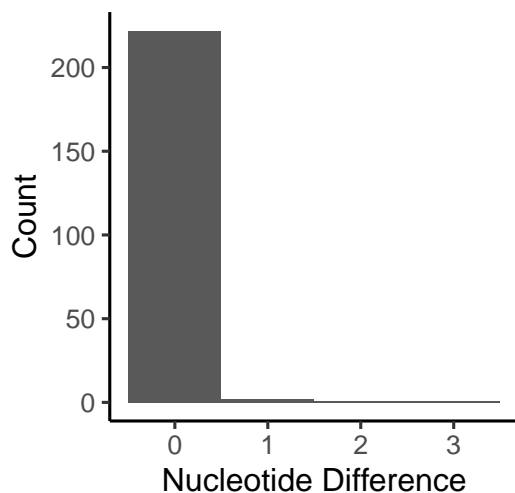
### TRBV7-3\*ap01

3116 sequences assigned  
3106 (99.7%) exact matches, in which:  
3096 unique CDR3  
13 unique J



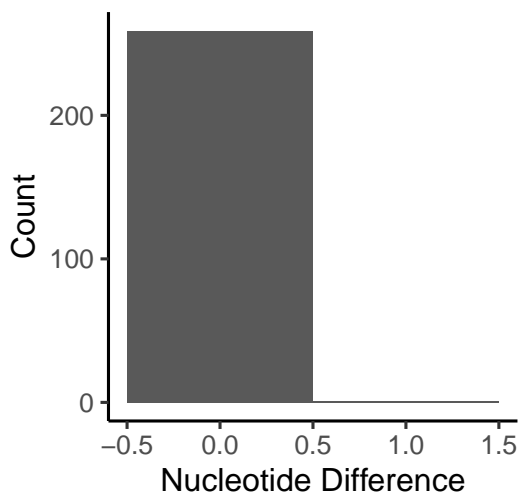
### TRBV7-4\*ap01

226 sequences assigned  
222 (98.2%) exact matches, in which:  
221 unique CDR3  
13 unique J



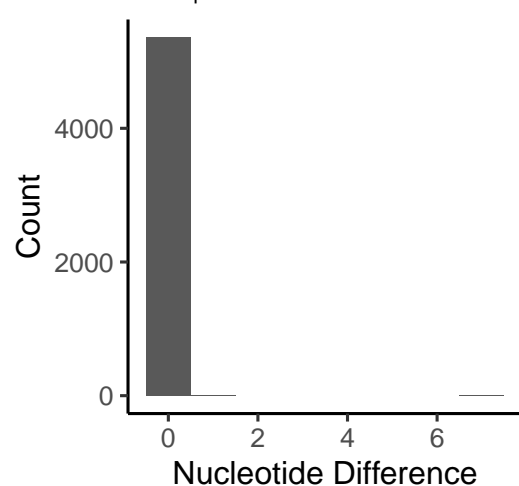
### TRBV7-7\*ap01\_C315T

260 sequences assigned  
259 (99.6%) exact matches, in which:  
259 unique CDR3  
12 unique J



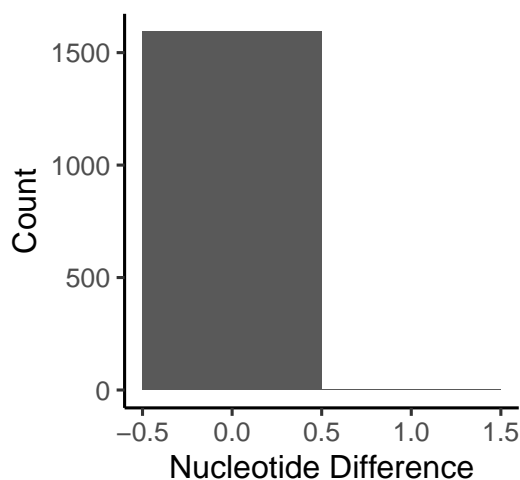
### TRBV7-9\*ap01

5370 sequences assigned  
5360 (99.8%) exact matches, in which:  
5351 unique CDR3  
13 unique J



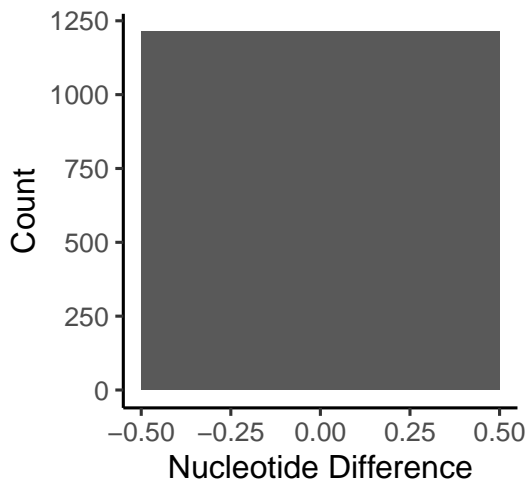
### TRBV7-6\*ap01

1597 sequences assigned  
1593 (99.7%) exact matches, in which:  
1592 unique CDR3  
13 unique J



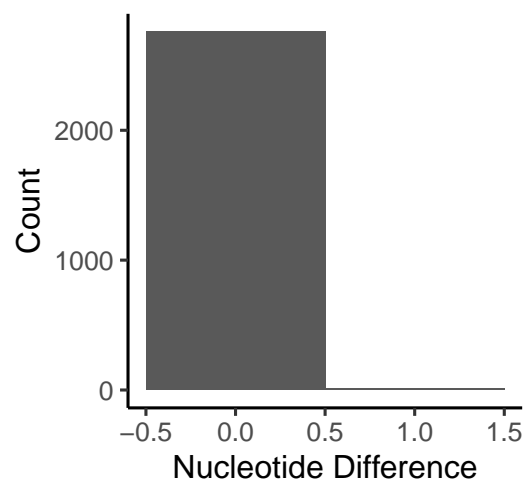
### TRBV7-8\*ap01

1213 sequences assigned  
1213 (100%) exact matches, in which:  
1213 unique CDR3  
13 unique J



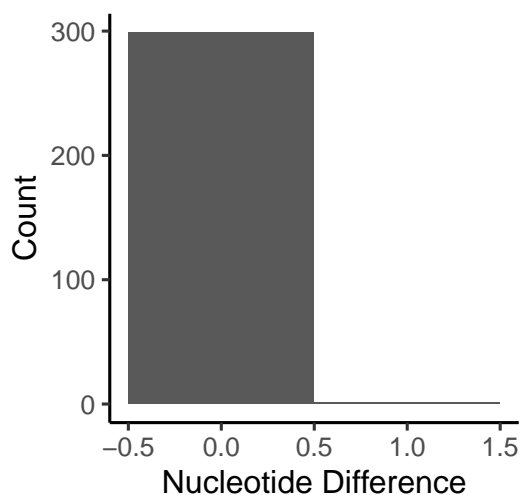
### TRBV29-1\*ap01

2769 sequences assigned  
2759 (99.6%) exact matches, in which:  
2756 unique CDR3  
13 unique J



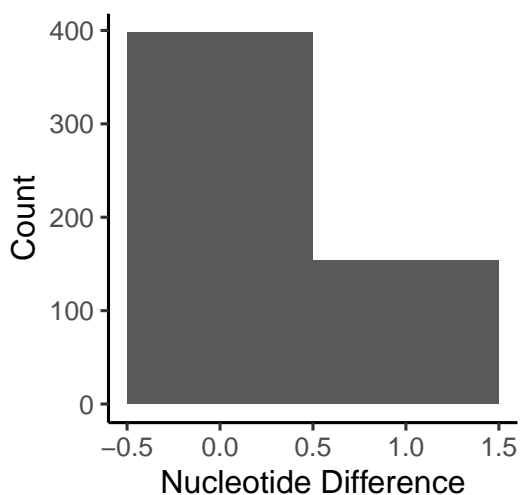
### TRBV7-7\*ap01

300 sequences assigned  
299 (99.7%) exact matches, in which:  
299 unique CDR3  
13 unique J



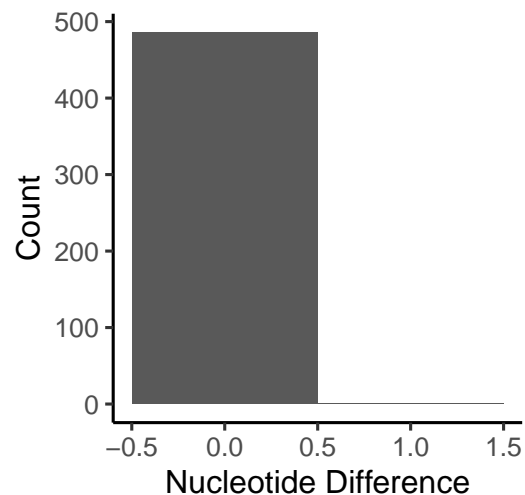
### TRBV7-8\*ap03

552 sequences assigned  
398 (72.1%) exact matches, in which:  
397 unique CDR3  
13 unique J

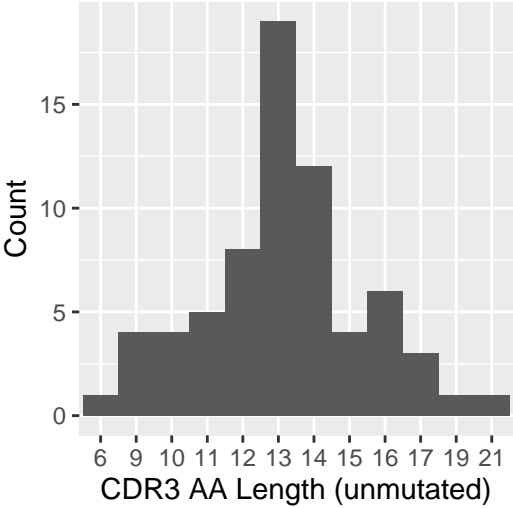


### TRBV29-1\*ap02

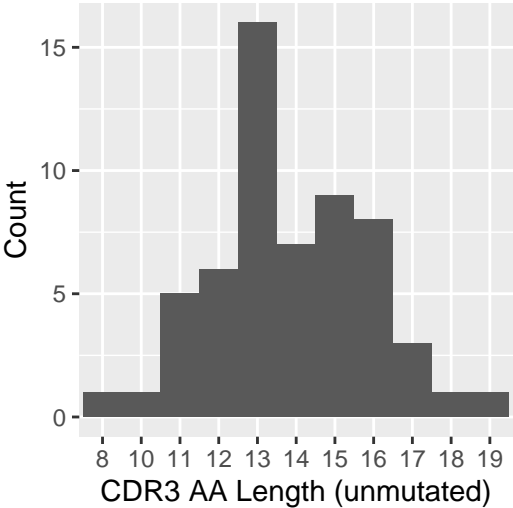
487 sequences assigned  
486 (99.8%) exact matches, in which:  
485 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

