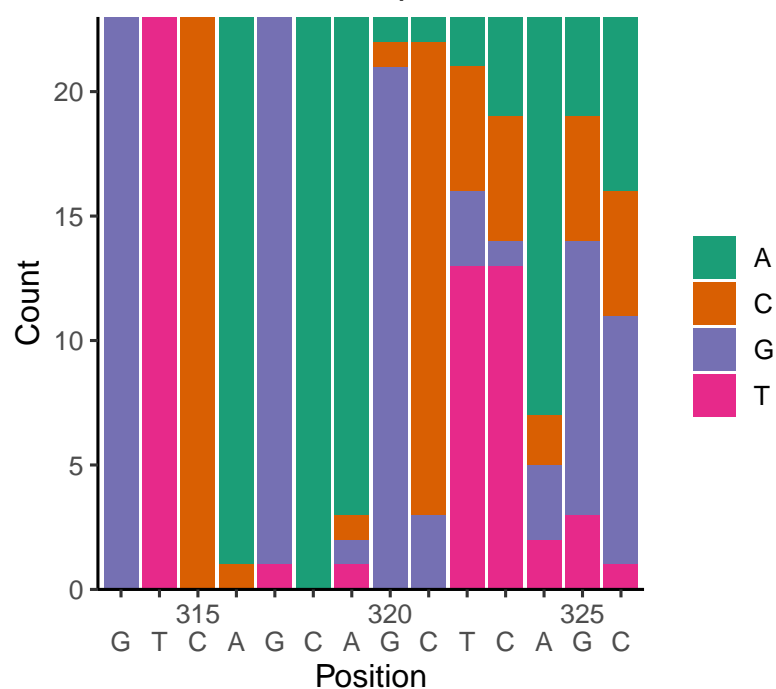
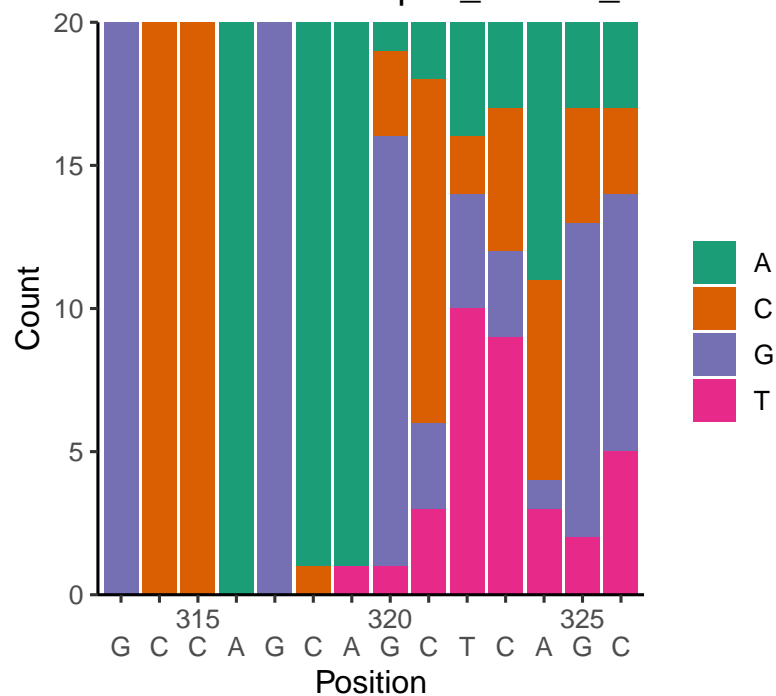


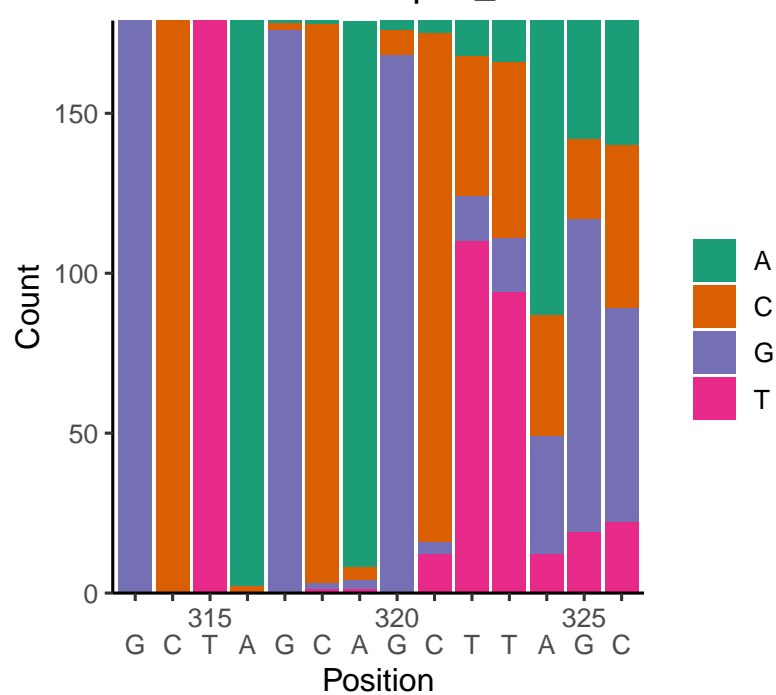
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



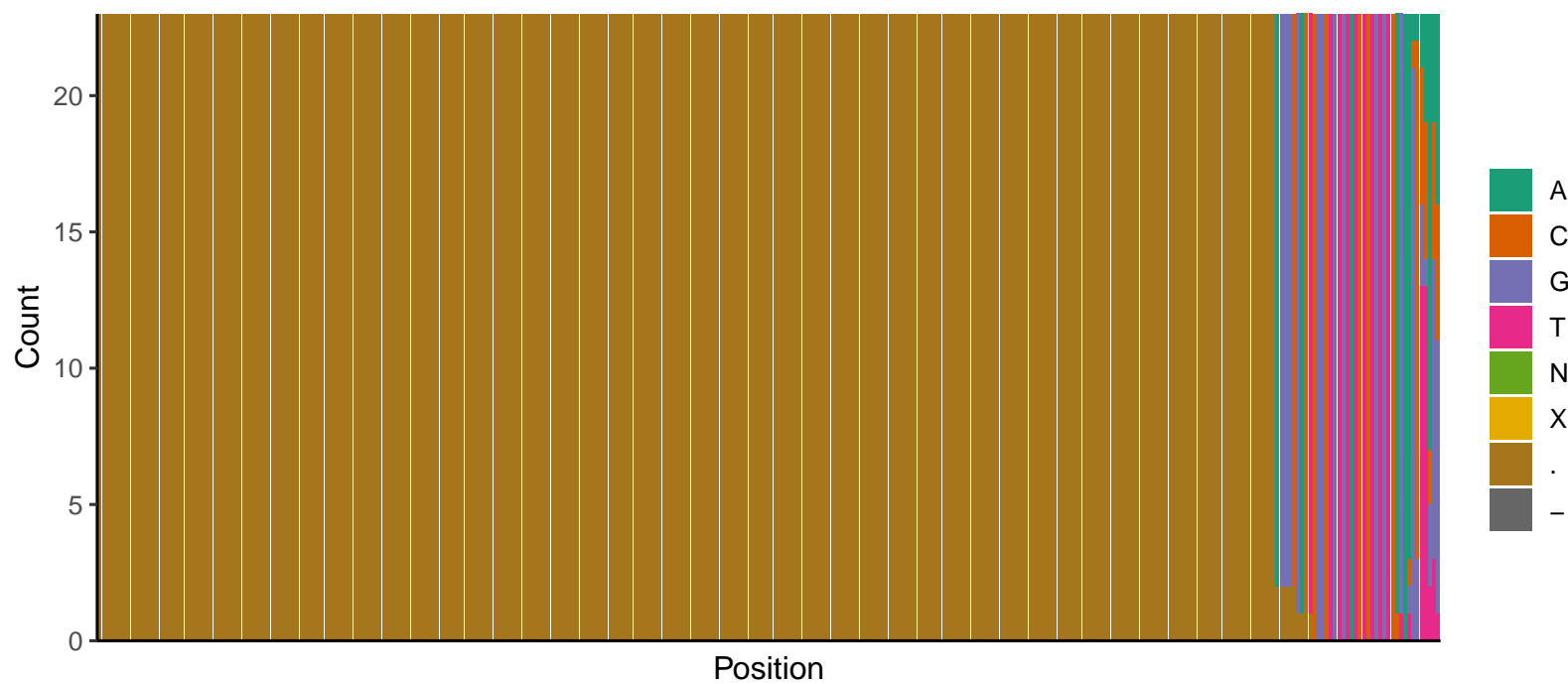
Gene TRBV7-1\*ap01\_G291C\_T296C



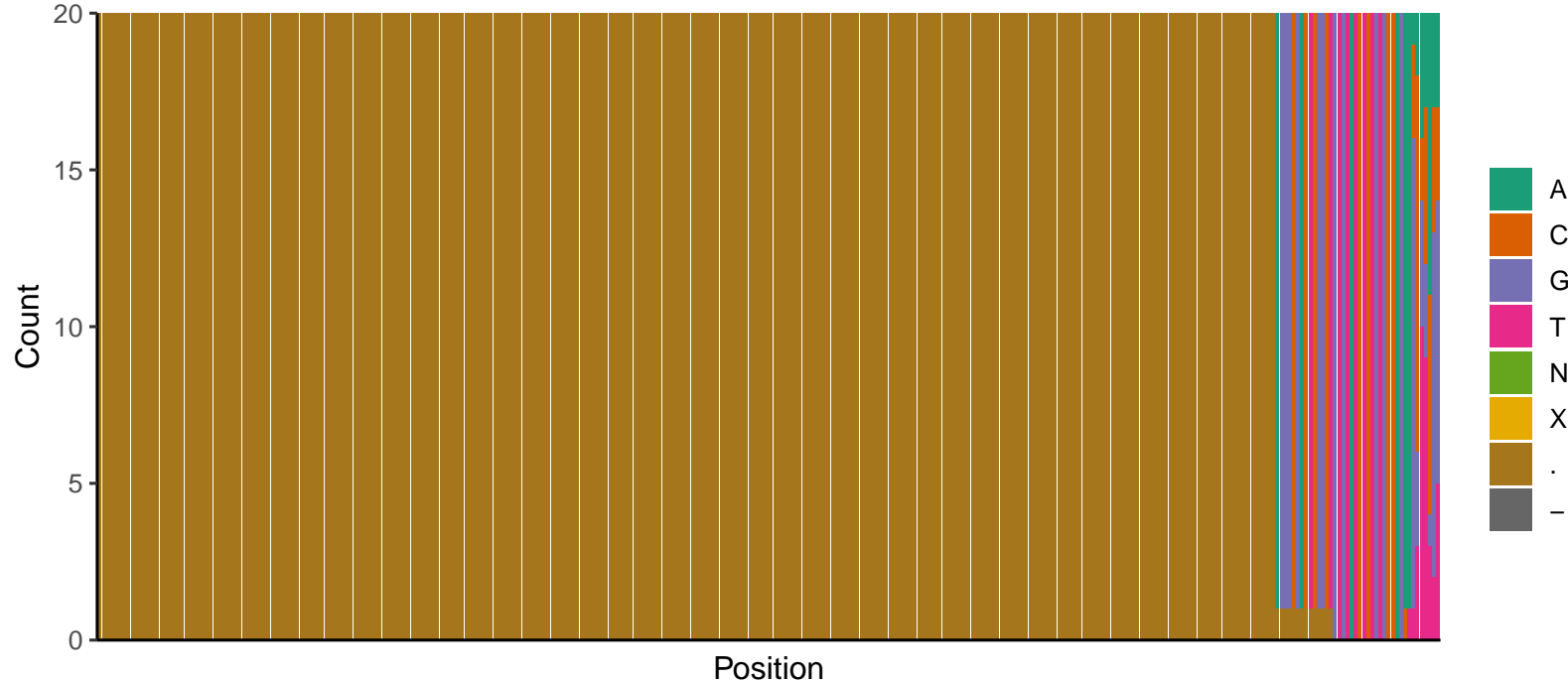
Gene TRBV7-7\*ap01\_C315T



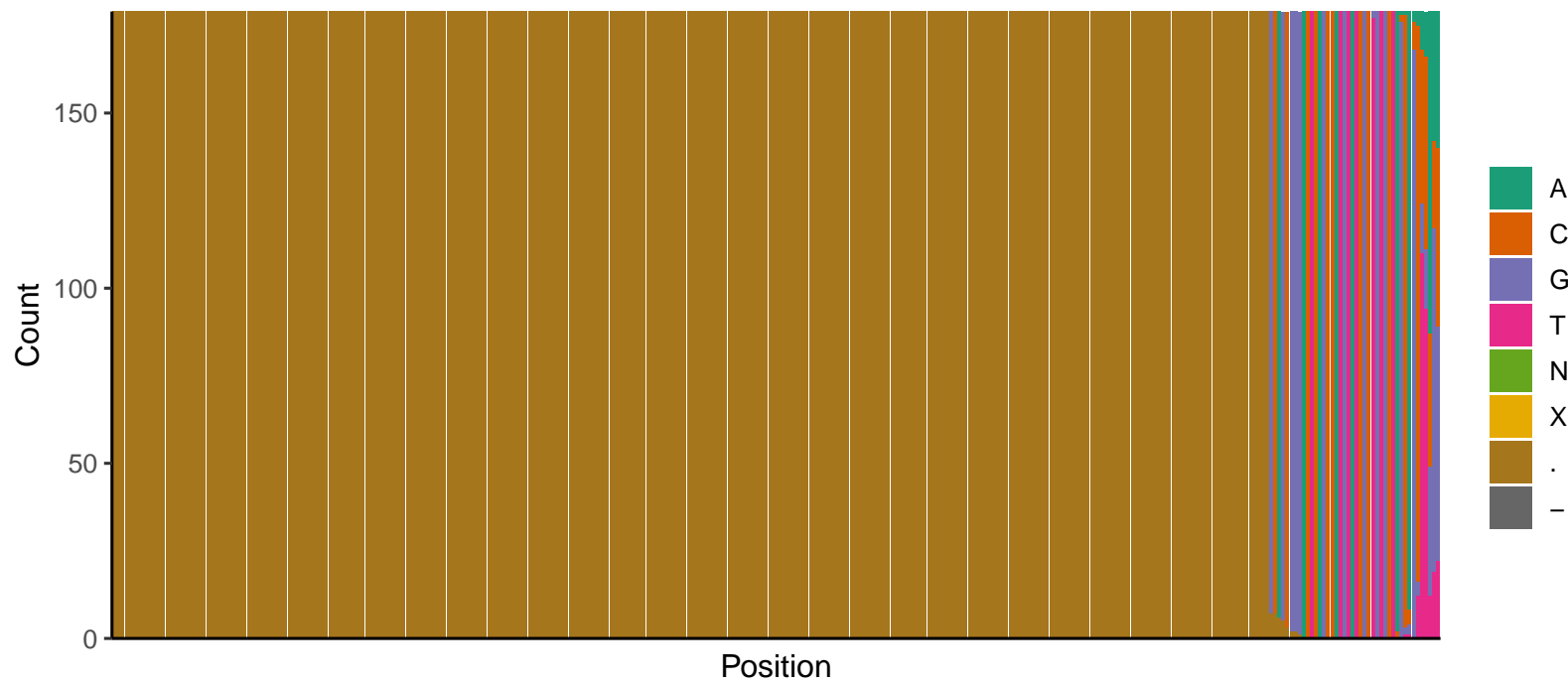
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



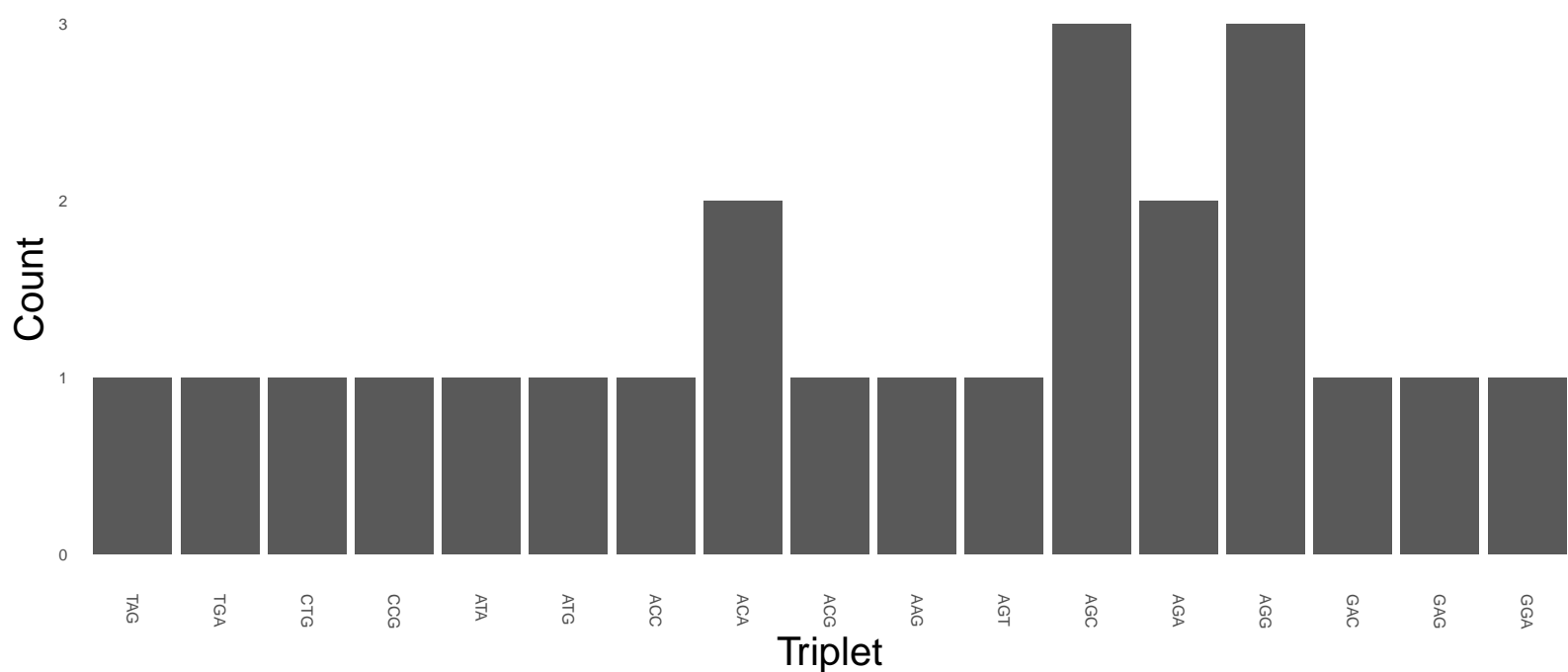
Gene TRBV7-1\*ap01\_G291C\_T296C



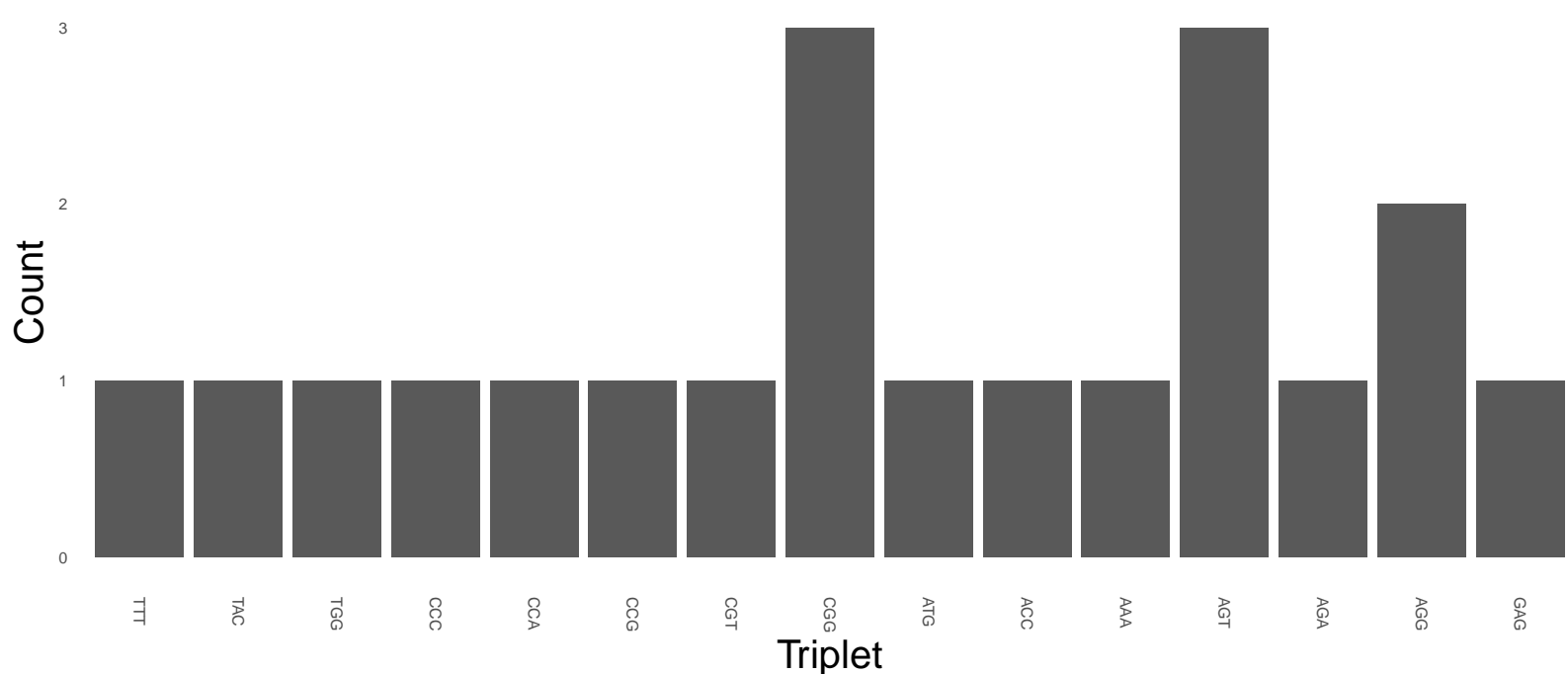
Gene TRBV7-7\*ap01\_C315T



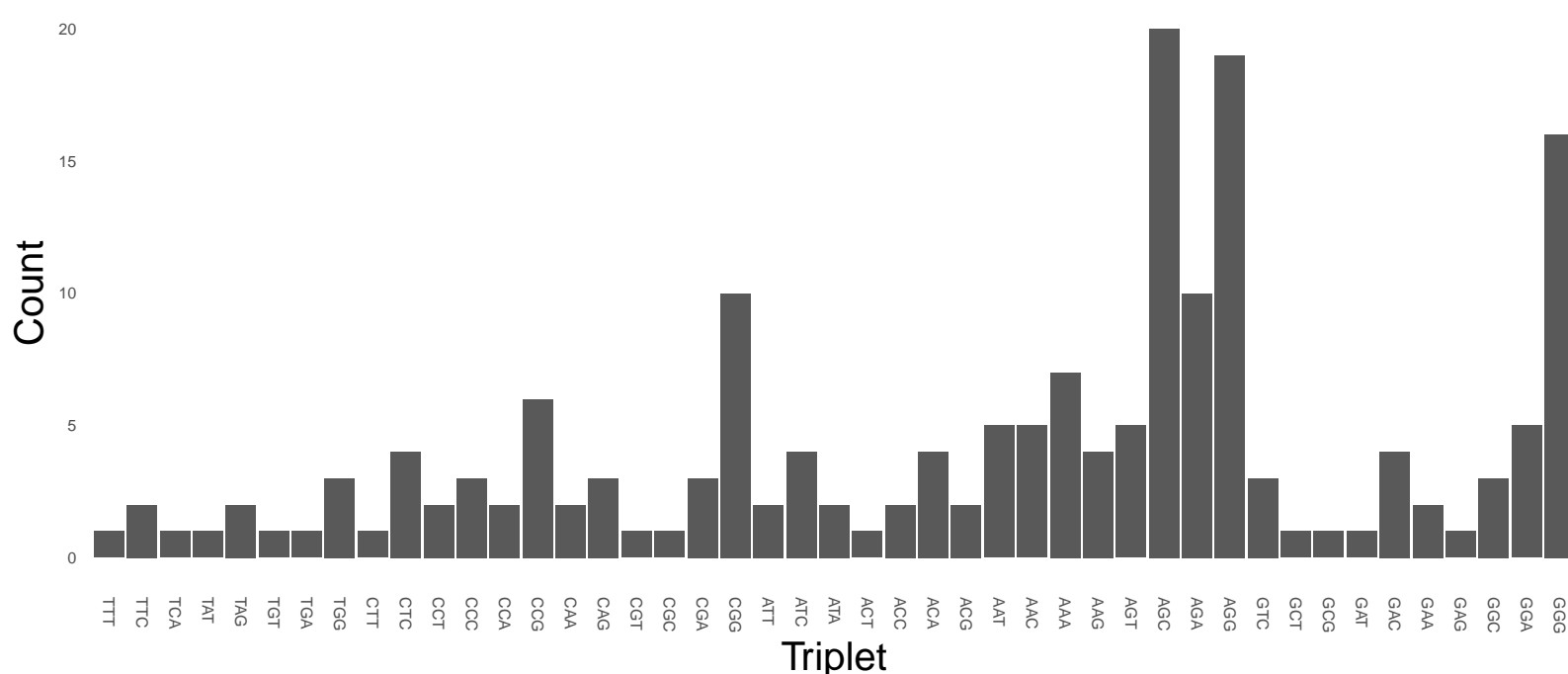
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

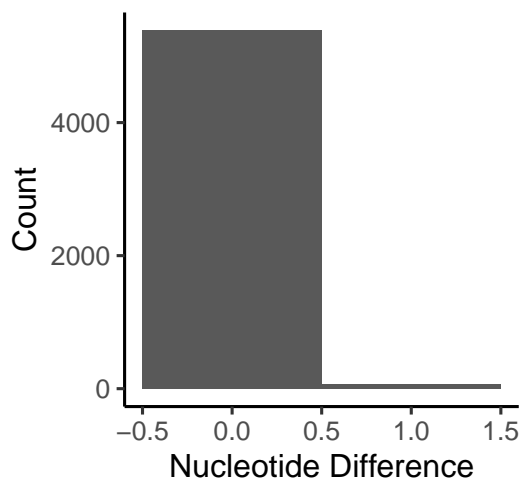


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



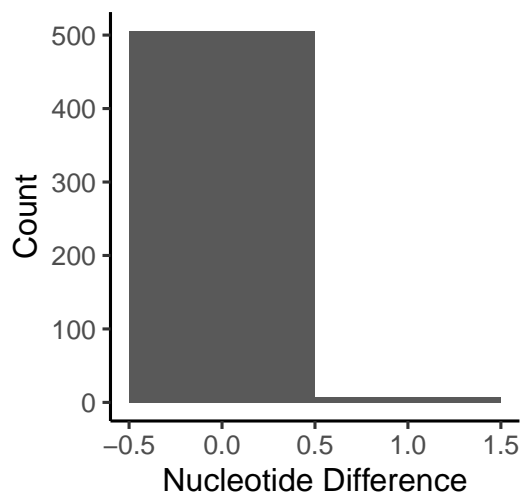
### TRBV20-1\*ap01

5459 sequences assigned  
5386 (98.7%) exact matches, in which:  
5278 unique CDR3  
13 unique J



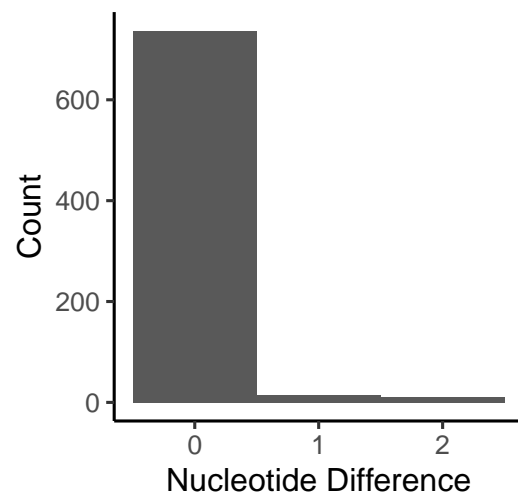
### TRBV10-2\*ap01

513 sequences assigned  
506 (98.6%) exact matches, in which:  
500 unique CDR3  
13 unique J



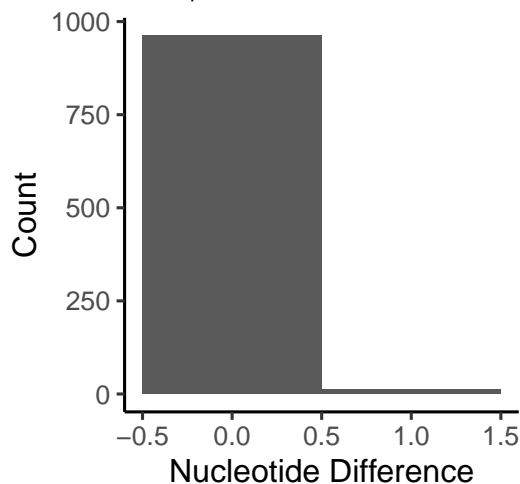
### TRBV13\*ap01

762 sequences assigned  
737 (96.7%) exact matches, in which:  
728 unique CDR3  
13 unique J



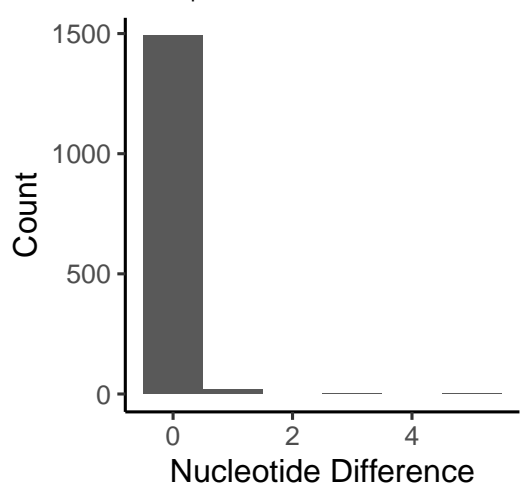
### TRBV10-1\*ap01

974 sequences assigned  
962 (98.8%) exact matches, in which:  
955 unique CDR3  
13 unique J



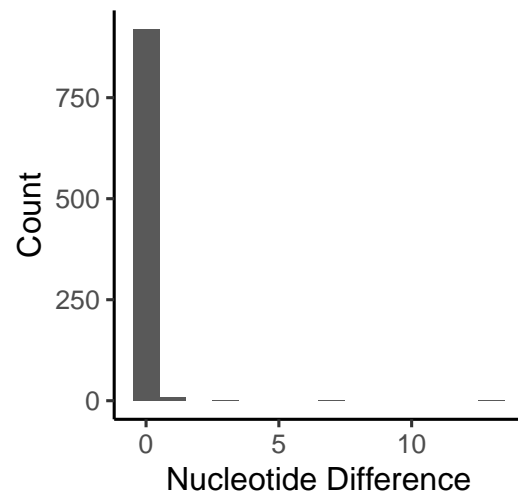
### TRBV10-3\*ap01

1513 sequences assigned  
1491 (98.5%) exact matches, in which:  
1478 unique CDR3  
13 unique J



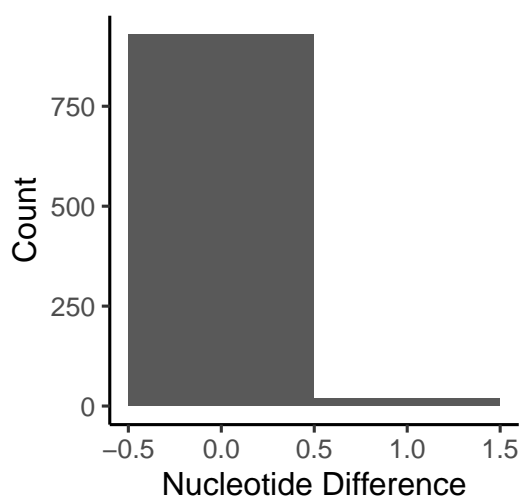
### TRBV14\*ap01

932 sequences assigned  
920 (98.7%) exact matches, in which:  
905 unique CDR3  
13 unique J



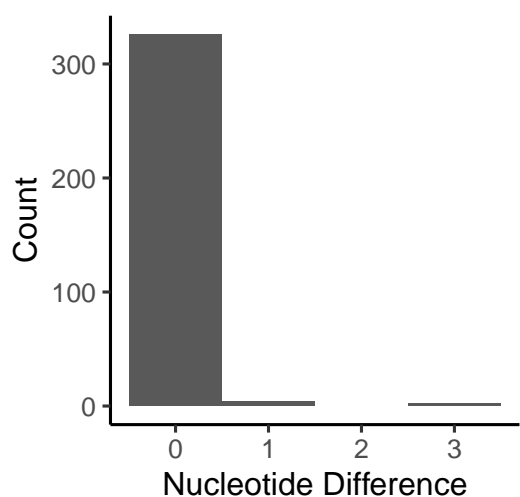
### TRBV20-1\*ap02

948 sequences assigned  
930 (98.1%) exact matches, in which:  
909 unique CDR3  
13 unique J



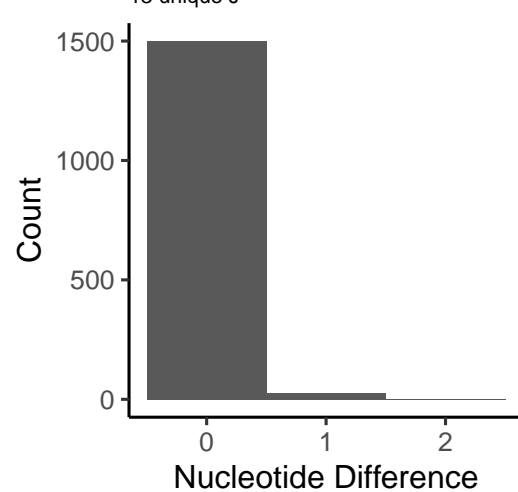
### TRBV1\*ap01

332 sequences assigned  
326 (98.2%) exact matches, in which:  
322 unique CDR3  
12 unique J



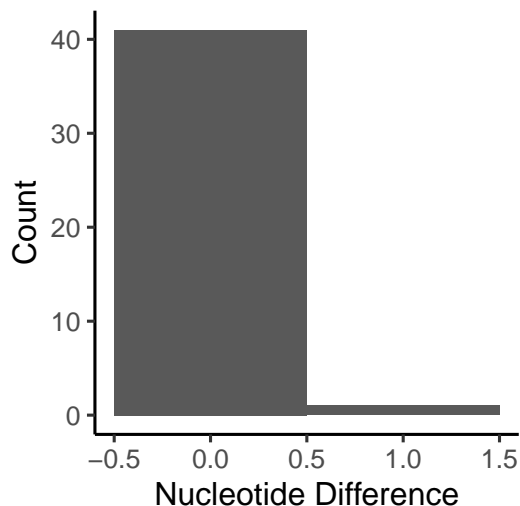
### TRBV15\*ap02

1528 sequences assigned  
1500 (98.2%) exact matches, in which:  
1486 unique CDR3  
13 unique J



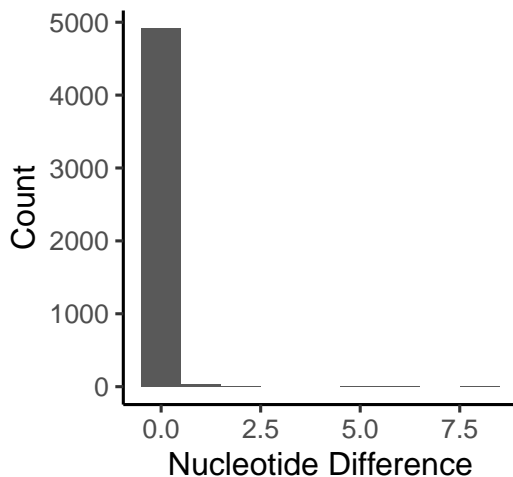
### TRBV16\*ap01

42 sequences assigned  
41 (97.6%) exact matches, in which:  
41 unique CDR3  
10 unique J



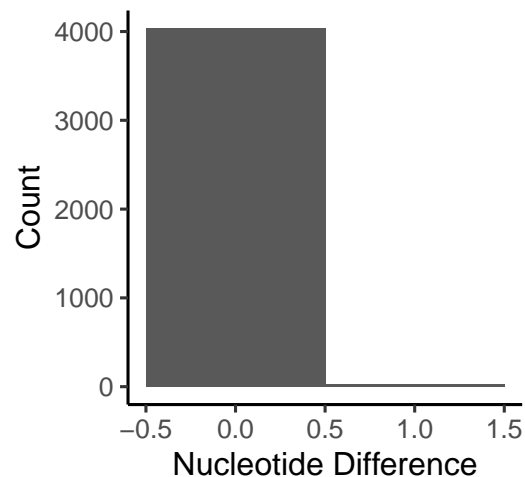
### TRBV19\*ap01

4955 sequences assigned  
4915 (99.2%) exact matches, in which:  
4882 unique CDR3  
13 unique J



### TRBV28\*ap01

4061 sequences assigned  
4035 (99.4%) exact matches, in which:  
3999 unique CDR3  
13 unique J



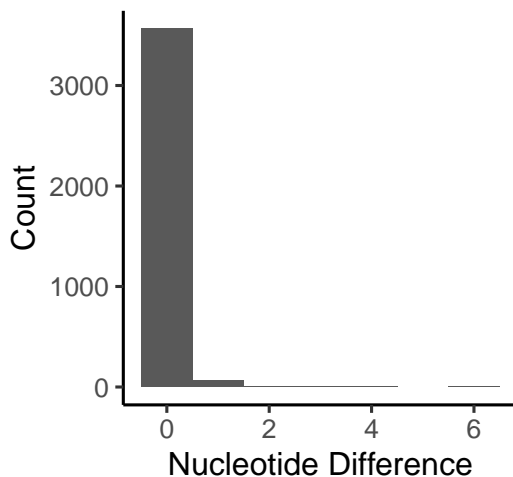
### TRBV17\*ap01

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



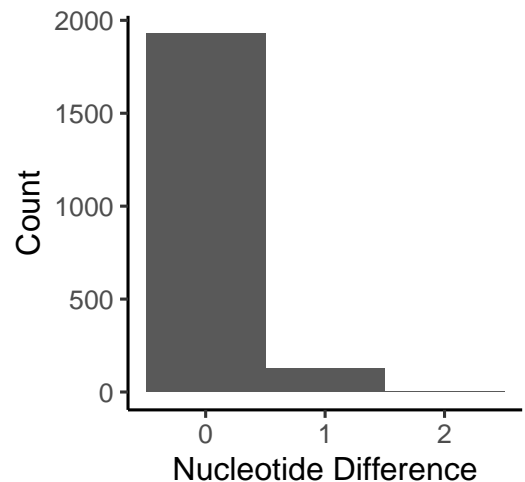
### TRBV2\*ap01

3635 sequences assigned  
3565 (98.1%) exact matches, in which:  
3534 unique CDR3  
13 unique J



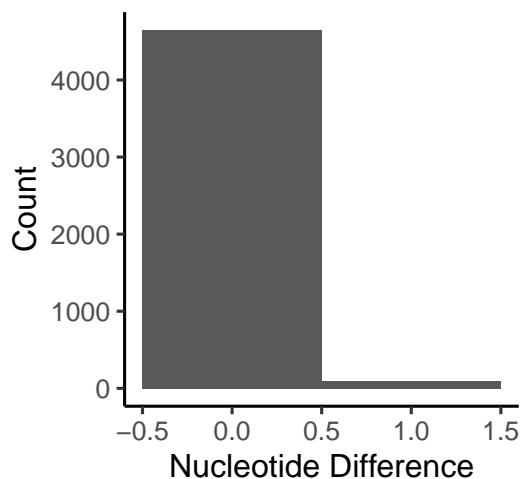
### TRBV30\*ap01

2056 sequences assigned  
1928 (93.8%) exact matches, in which:  
1835 unique CDR3  
13 unique J



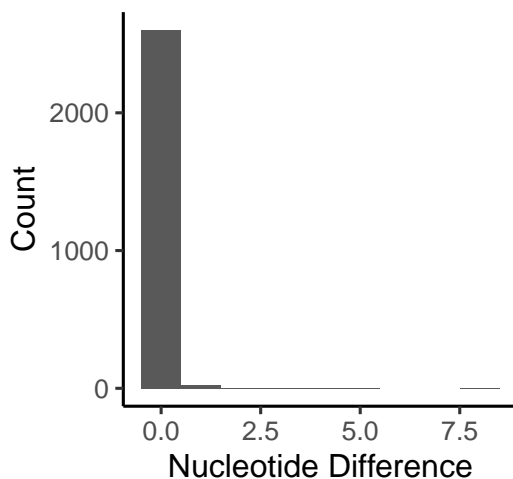
### TRBV18\*ap01

4741 sequences assigned  
4648 (98%) exact matches, in which:  
4550 unique CDR3  
13 unique J



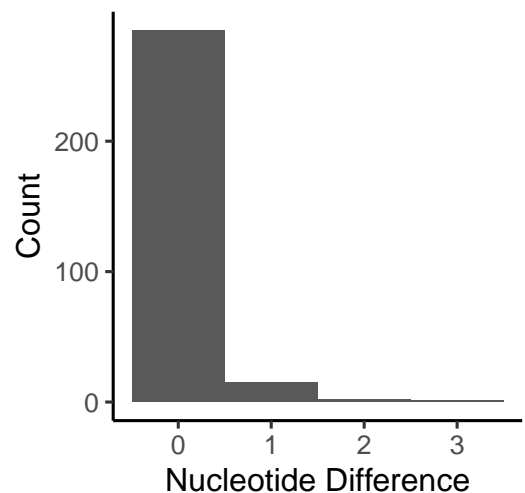
### TRBV27\*ap01

2632 sequences assigned  
2601 (98.8%) exact matches, in which:  
2592 unique CDR3  
13 unique J



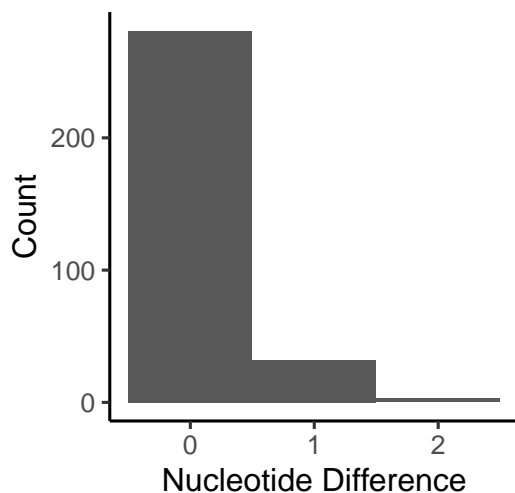
### TRBV30\*ap02

303 sequences assigned  
285 (94.1%) exact matches, in which:  
275 unique CDR3  
13 unique J



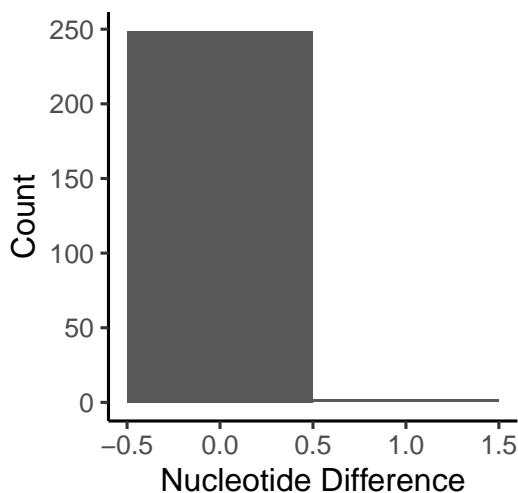
### TRBV30\*ap03

316 sequences assigned  
281 (88.9%) exact matches, in which:  
263 unique CDR3  
13 unique J



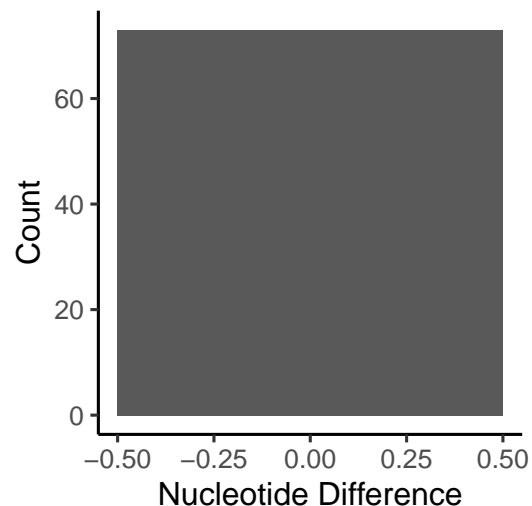
### TRBV11-1\*ap01

251 sequences assigned  
249 (99.2%) exact matches, in which:  
246 unique CDR3  
13 unique J



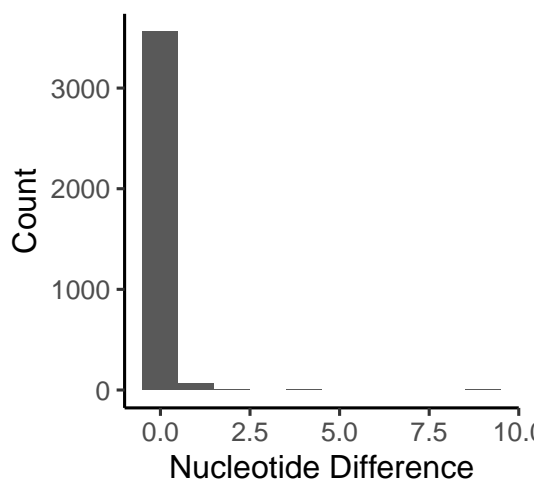
### TRBV12-1\*ap01

73 sequences assigned  
73 (100%) exact matches, in which:  
73 unique CDR3  
12 unique J



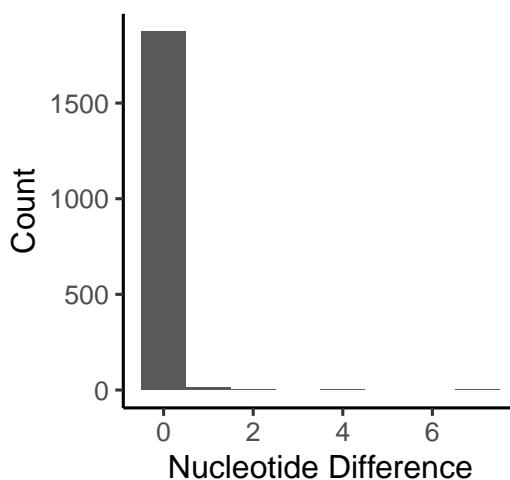
### TRBV9\*ap01

3631 sequences assigned  
3560 (98%) exact matches, in which:  
3528 unique CDR3  
13 unique J



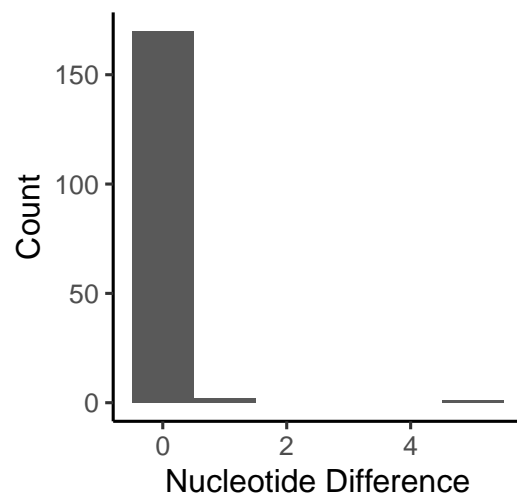
### TRBV11-2\*ap01

1889 sequences assigned  
1873 (99.2%) exact matches, in which:  
1858 unique CDR3  
13 unique J



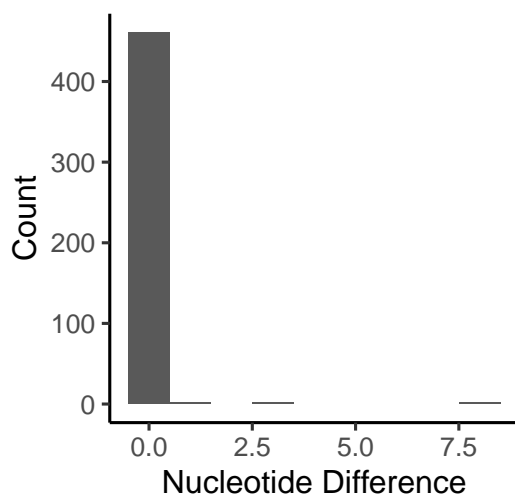
### TRBV12-2\*ap01

173 sequences assigned  
170 (98.3%) exact matches, in which:  
169 unique CDR3  
13 unique J



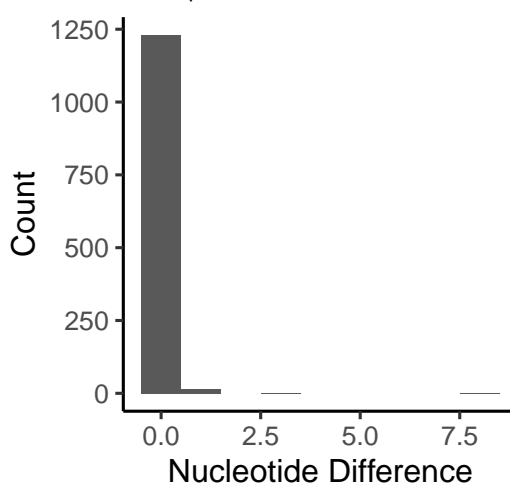
### TRBV21-1\*ap01

467 sequences assigned  
461 (98.7%) exact matches, in which:  
458 unique CDR3  
13 unique J



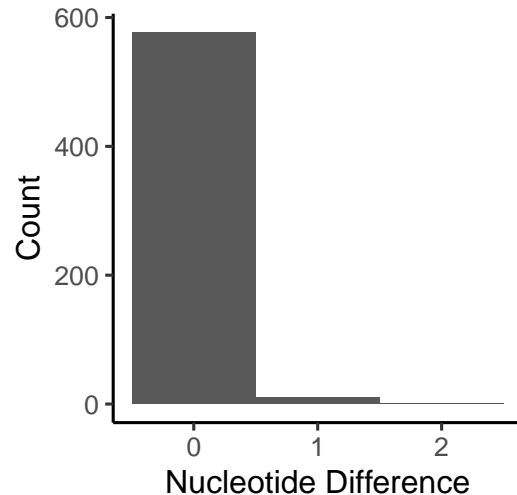
### TRBV11-3\*ap01

1246 sequences assigned  
1230 (98.7%) exact matches, in which:  
1223 unique CDR3  
13 unique J



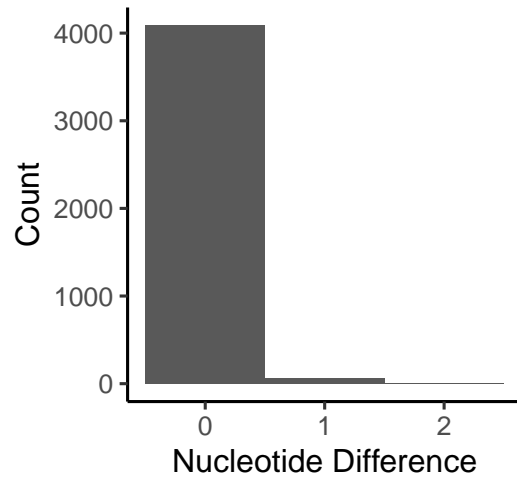
### TRBV12-5\*ap01

588 sequences assigned  
577 (98.1%) exact matches, in which:  
570 unique CDR3  
13 unique J



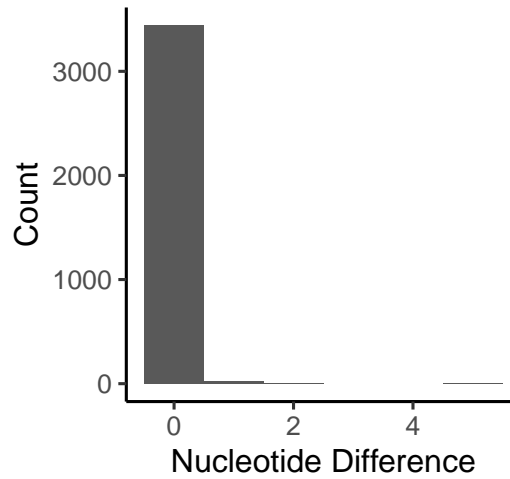
### TRBV12-34\*ap01

4154 sequences assigned  
4088 (98.4%) exact matches, in which:  
4047 unique CDR3  
13 unique J



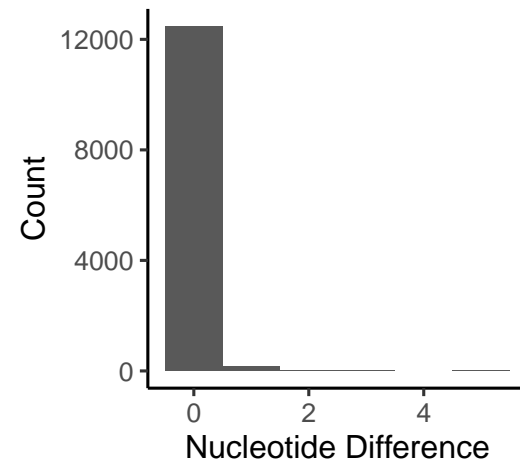
### TRBV4-1\*ap01

3471 sequences assigned  
3441 (99.1%) exact matches, in which:  
3378 unique CDR3  
13 unique J



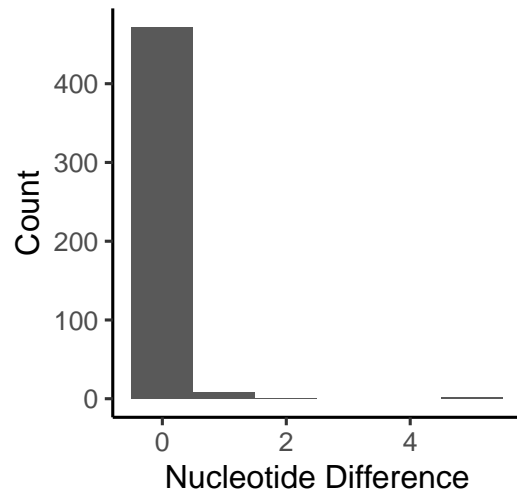
### TRBV5-1\*ap01

12657 sequences assigned  
12478 (98.6%) exact matches, in which:  
12270 unique CDR3  
13 unique J



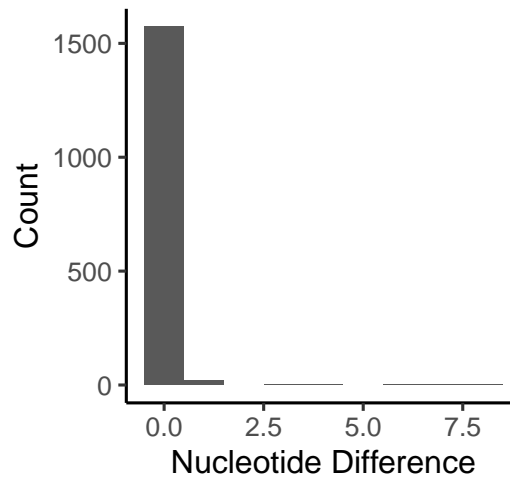
### TRBV23-1\*ap01

483 sequences assigned  
472 (97.7%) exact matches, in which:  
470 unique CDR3  
13 unique J



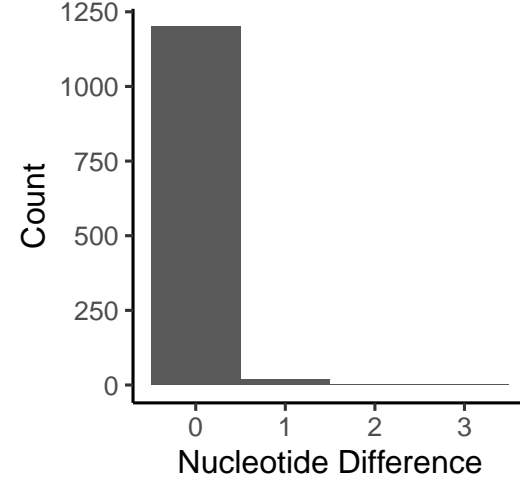
### TRBV24-1\*ap01

1601 sequences assigned  
1573 (98.3%) exact matches, in which:  
1561 unique CDR3  
13 unique J



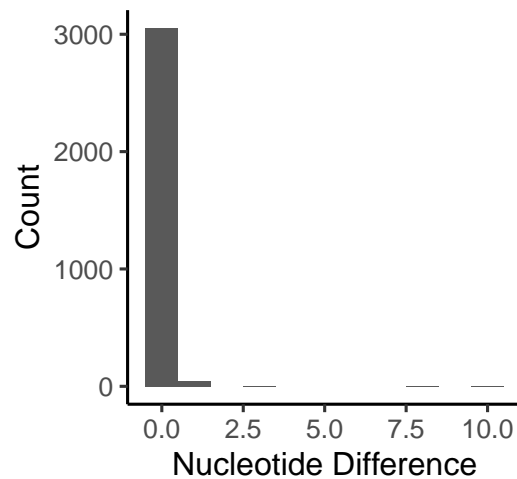
### TRBV25-1\*ap01

1221 sequences assigned  
1200 (98.3%) exact matches, in which:  
1178 unique CDR3  
13 unique J



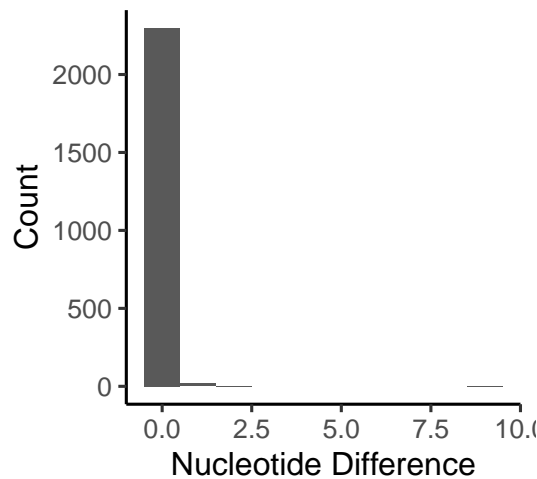
### TRBV3-12\*ap01

3104 sequences assigned  
3053 (98.4%) exact matches, in which:  
3033 unique CDR3  
13 unique J



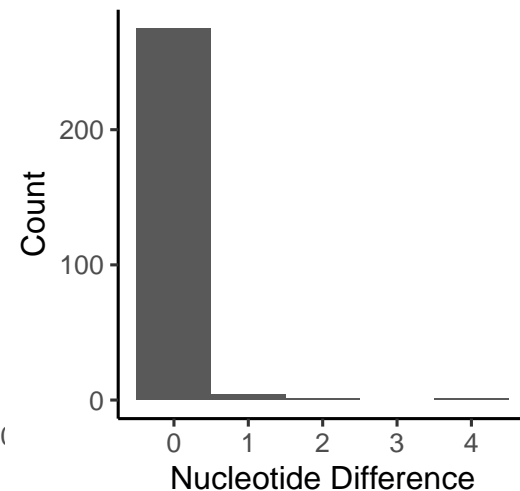
### TRBV4-2\*ap01

2317 sequences assigned  
2298 (99.2%) exact matches, in which:  
2250 unique CDR3  
13 unique J



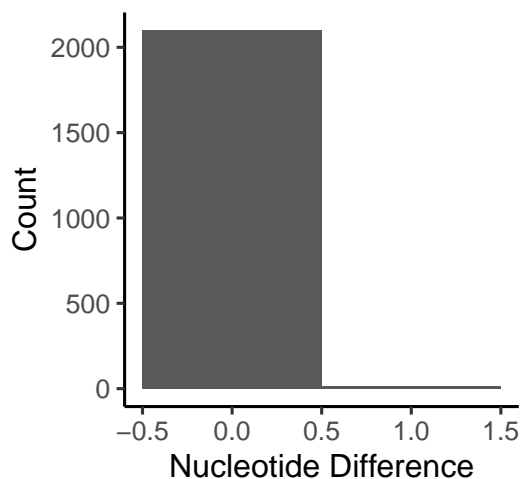
### TRBV5-3\*ap01

281 sequences assigned  
275 (97.9%) exact matches, in which:  
270 unique CDR3  
13 unique J



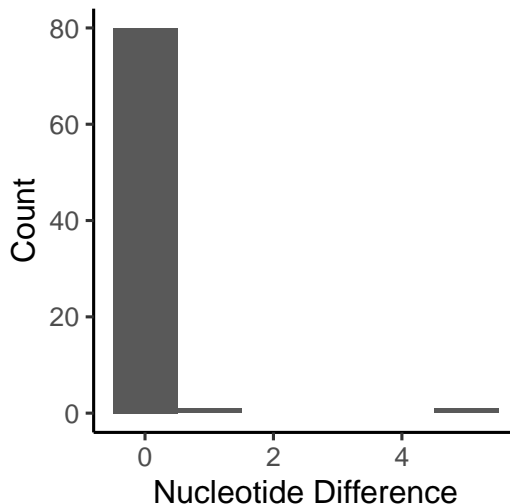
### TRBV5-4\*ap01

2116 sequences assigned  
2099 (99.2%) exact matches, in which:  
2075 unique CDR3  
13 unique J



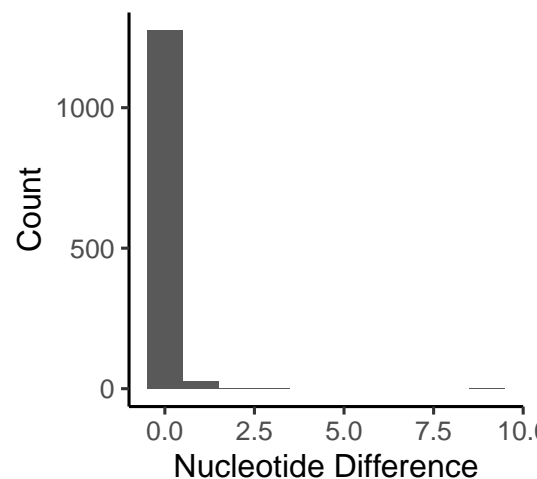
### TRBV5-7\*ap01

82 sequences assigned  
80 (97.6%) exact matches, in which:  
79 unique CDR3  
11 unique J



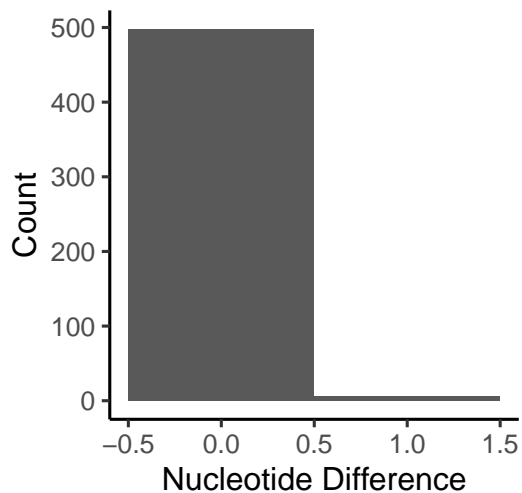
### TRBV6-4\*ap01

1305 sequences assigned  
1275 (97.7%) exact matches, in which:  
1259 unique CDR3  
13 unique J



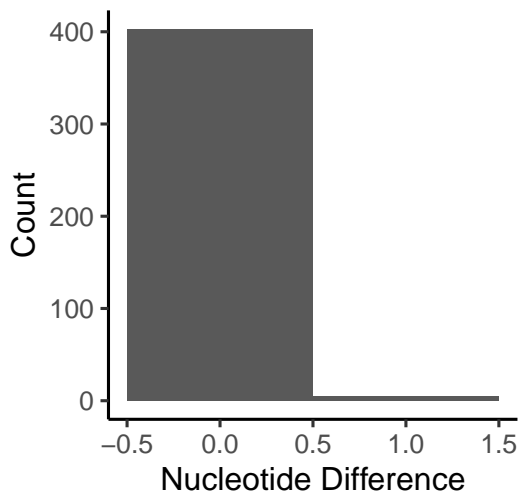
### TRBV5-5\*ap01

504 sequences assigned  
498 (98.8%) exact matches, in which:  
496 unique CDR3  
13 unique J



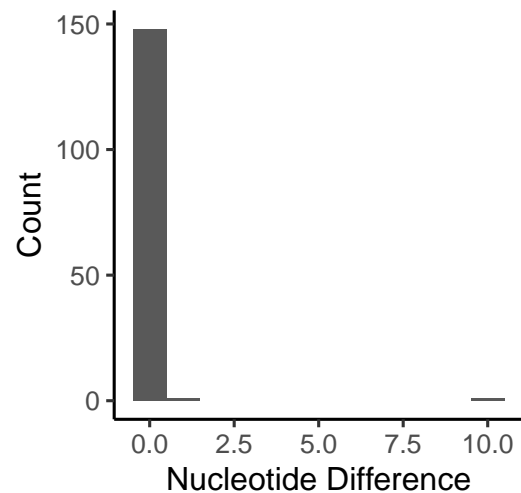
### TRBV5-8\*ap01

408 sequences assigned  
403 (98.8%) exact matches, in which:  
403 unique CDR3  
13 unique J



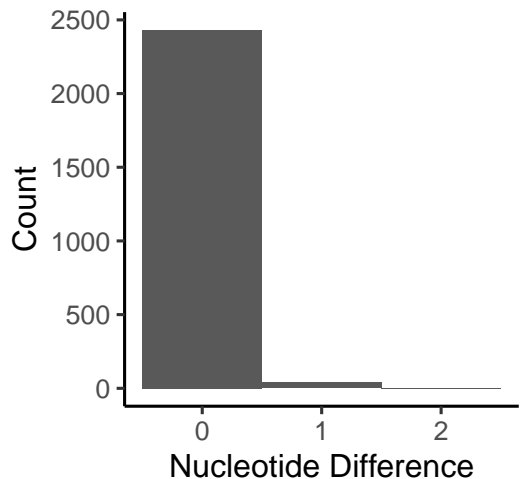
### TRBV6-7\*ap01

150 sequences assigned  
148 (98.7%) exact matches, in which:  
145 unique CDR3  
13 unique J



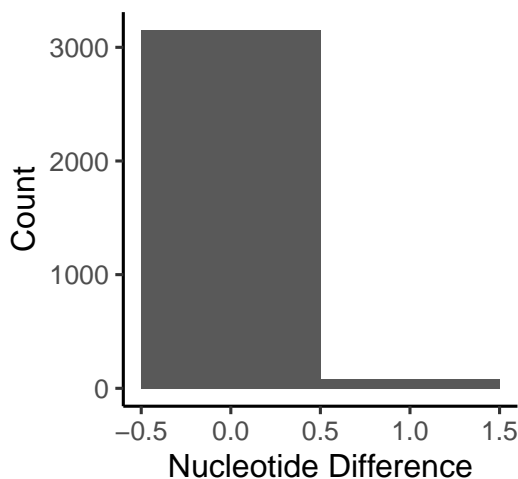
### TRBV5-6\*ap01

2471 sequences assigned  
2431 (98.4%) exact matches, in which:  
2372 unique CDR3  
13 unique J



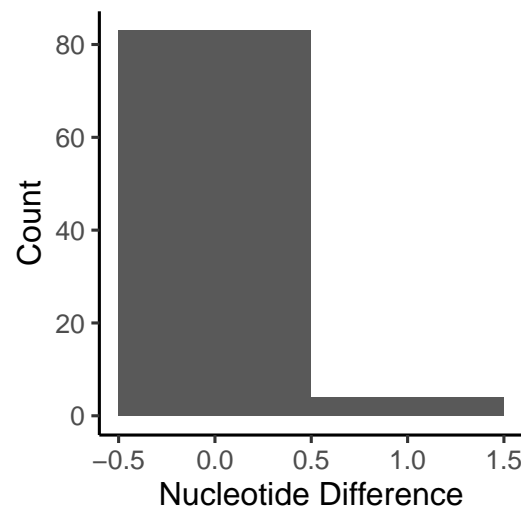
### TRBV6-1\*ap01

3235 sequences assigned  
3152 (97.4%) exact matches, in which:  
3107 unique CDR3  
13 unique J



### TRBV6-8\*ap01

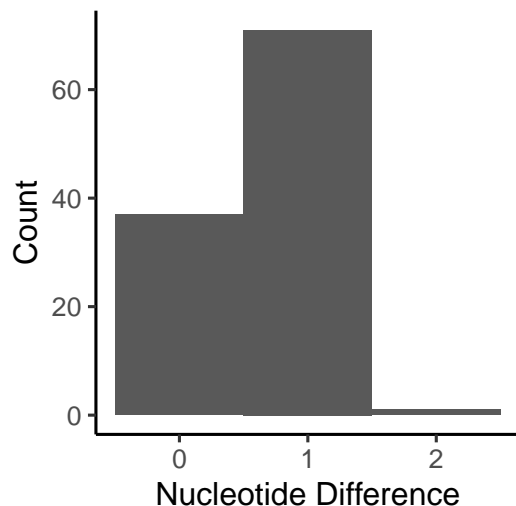
87 sequences assigned  
83 (95.4%) exact matches, in which:  
80 unique CDR3  
12 unique J





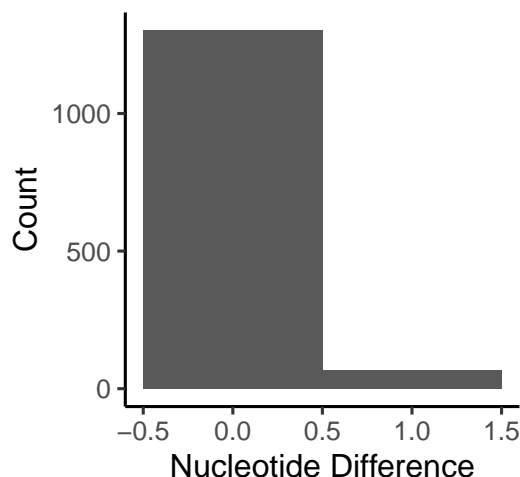
### TRBV6-9\*ap01

109 sequences assigned  
37 (33.9%) exact matches, in which:  
37 unique CDR3  
12 unique J



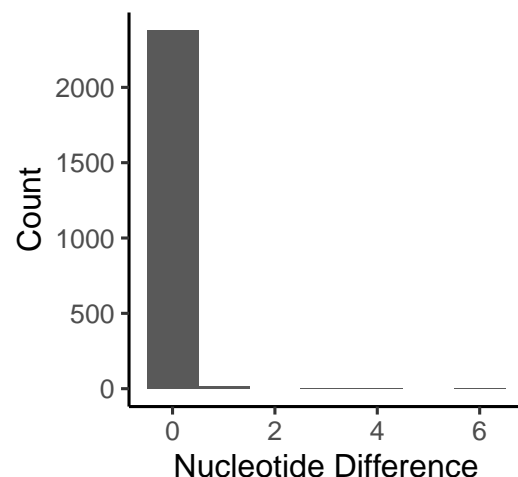
### TRBV6-56\*ap02

1368 sequences assigned  
1302 (95.2%) exact matches, in which:  
1278 unique CDR3  
13 unique J



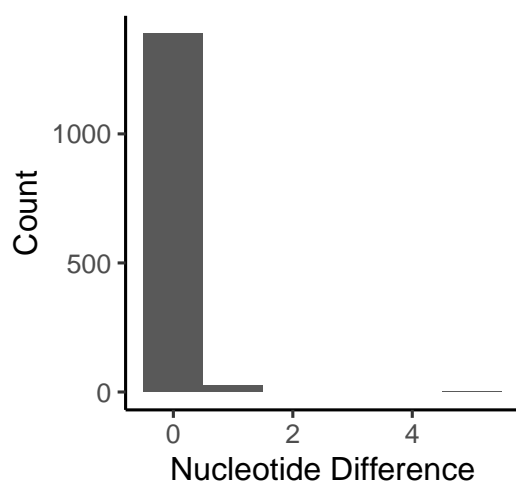
### TRBV7-2\*ap01

2398 sequences assigned  
2378 (99.2%) exact matches, in which:  
2365 unique CDR3  
13 unique J



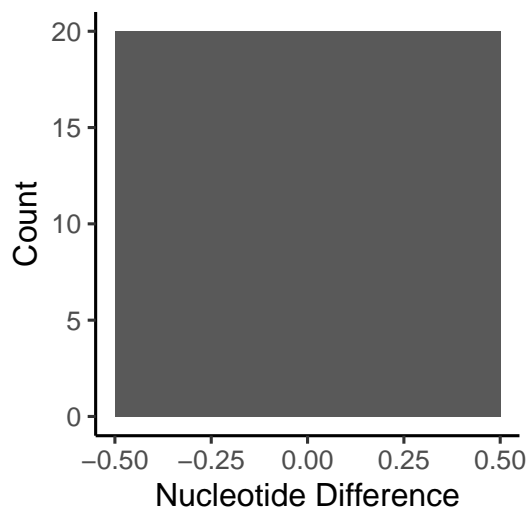
### TRBV6-23\*ap01

1414 sequences assigned  
1388 (98.2%) exact matches, in which:  
1360 unique CDR3  
13 unique J



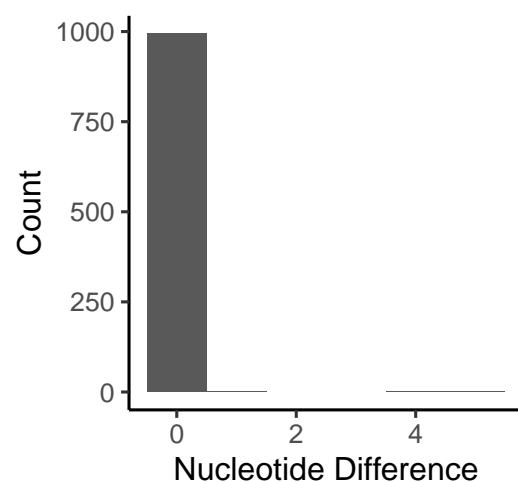
### TRBV7-1\*ap01\_G291C\_T

20 sequences assigned  
20 (100%) exact matches, in which:  
20 unique CDR3  
12 unique J



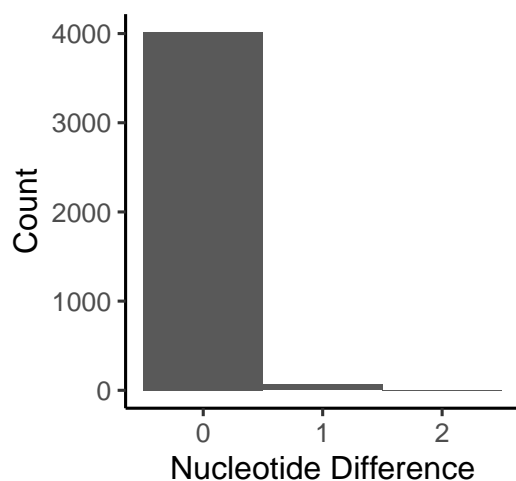
### TRBV7-3\*ap01

997 sequences assigned  
994 (99.7%) exact matches, in which:  
979 unique CDR3  
13 unique J



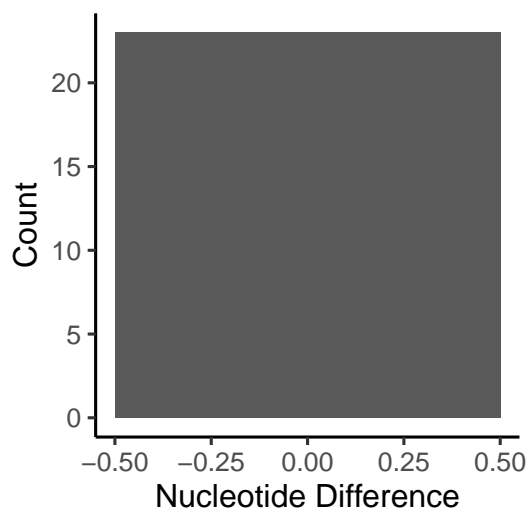
### TRBV6-56\*ap01

4083 sequences assigned  
4017 (98.4%) exact matches, in which:  
3958 unique CDR3  
13 unique J



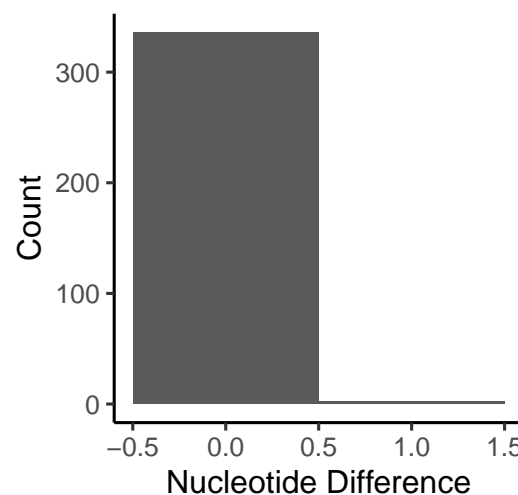
### TRBV7-1\*ap01\_G291C\_T

23 sequences assigned  
23 (100%) exact matches, in which:  
23 unique CDR3  
9 unique J



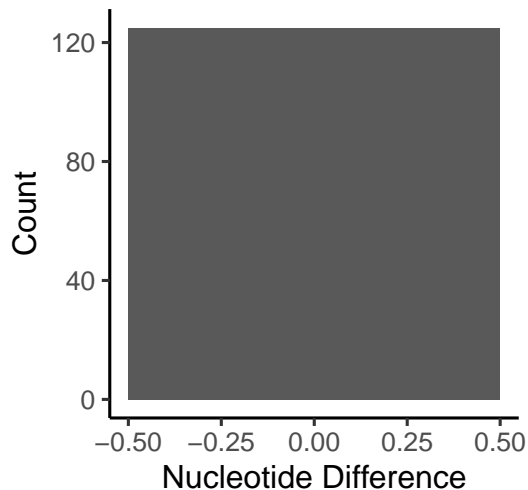
### TRBV7-3\*ap03

338 sequences assigned  
336 (99.4%) exact matches, in which:  
334 unique CDR3  
13 unique J



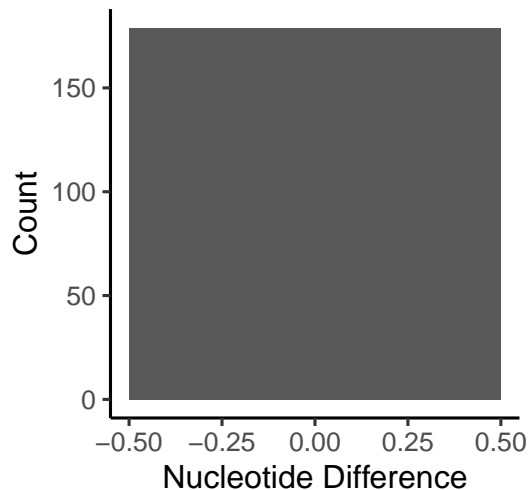
### TRBV7-4\*ap01

125 sequences assigned  
125 (100%) exact matches, in which:  
124 unique CDR3  
13 unique J



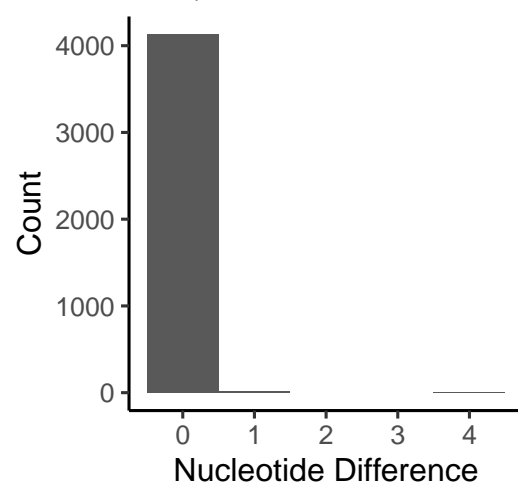
### TRBV7-7\*ap01\_C315T

179 sequences assigned  
179 (100%) exact matches, in which:  
178 unique CDR3  
13 unique J



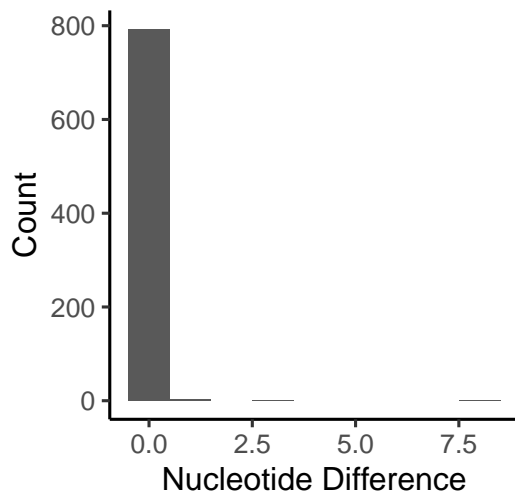
### TRBV7-9\*ap01

4146 sequences assigned  
4130 (99.6%) exact matches, in which:  
4086 unique CDR3  
13 unique J



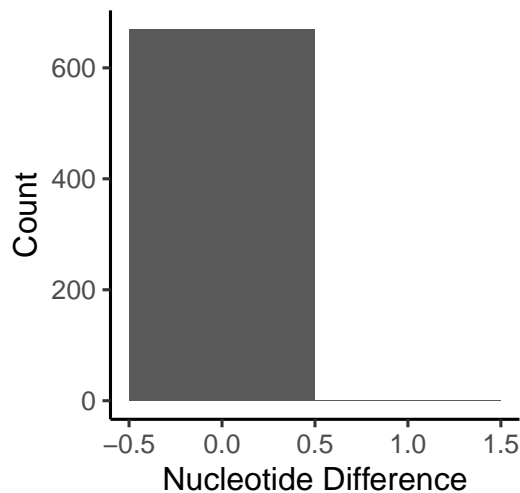
### TRBV7-6\*ap01

799 sequences assigned  
793 (99.2%) exact matches, in which:  
778 unique CDR3  
13 unique J



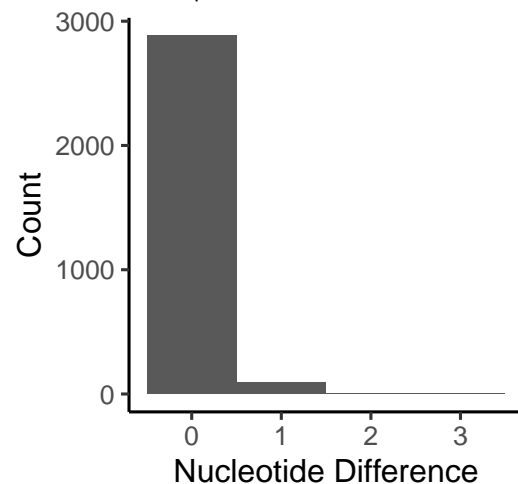
### TRBV7-8\*ap01

671 sequences assigned  
670 (99.9%) exact matches, in which:  
670 unique CDR3  
13 unique J



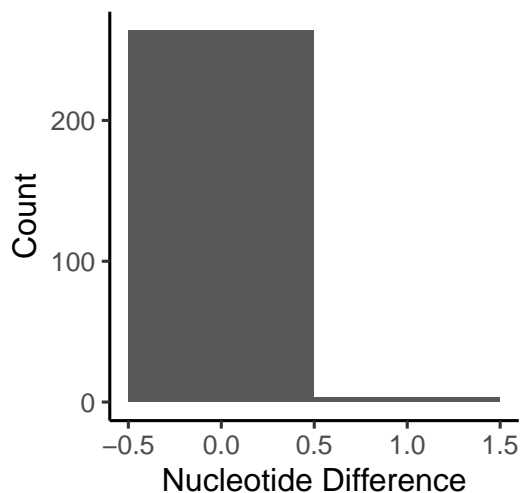
### TRBV29-1\*ap01

2980 sequences assigned  
2883 (96.7%) exact matches, in which:  
2761 unique CDR3  
13 unique J



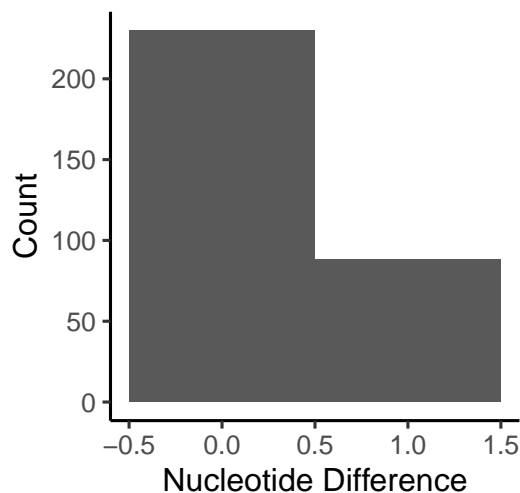
### TRBV7-7\*ap01

267 sequences assigned  
264 (98.9%) exact matches, in which:  
260 unique CDR3  
13 unique J



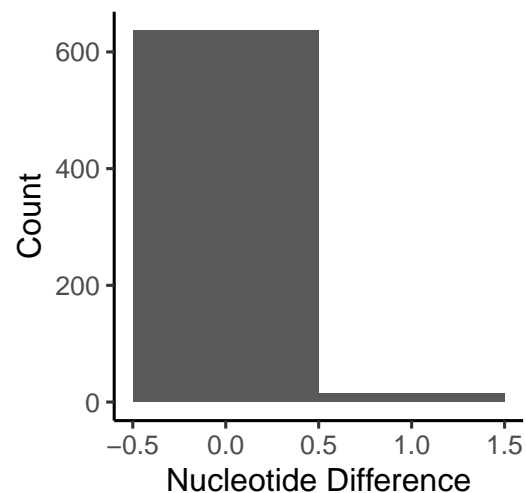
### TRBV7-8\*ap03

318 sequences assigned  
230 (72.3%) exact matches, in which:  
227 unique CDR3  
13 unique J

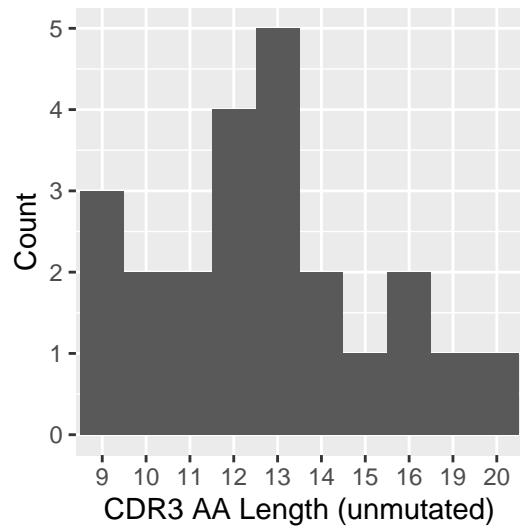


### TRBV29-1\*ap02

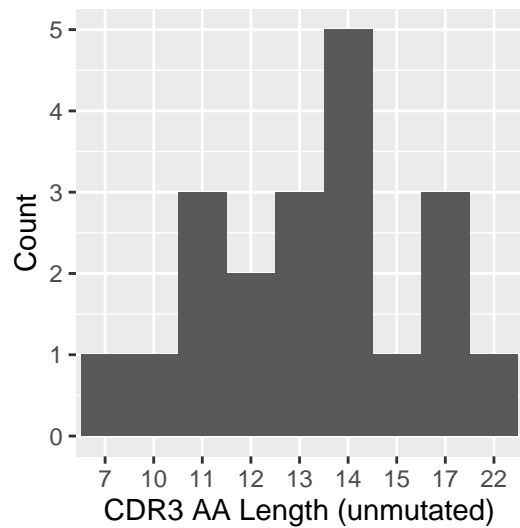
652 sequences assigned  
637 (97.7%) exact matches, in which:  
600 unique CDR3  
13 unique J



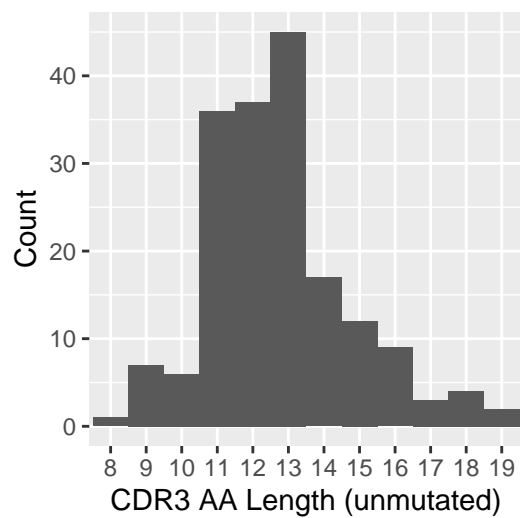
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]