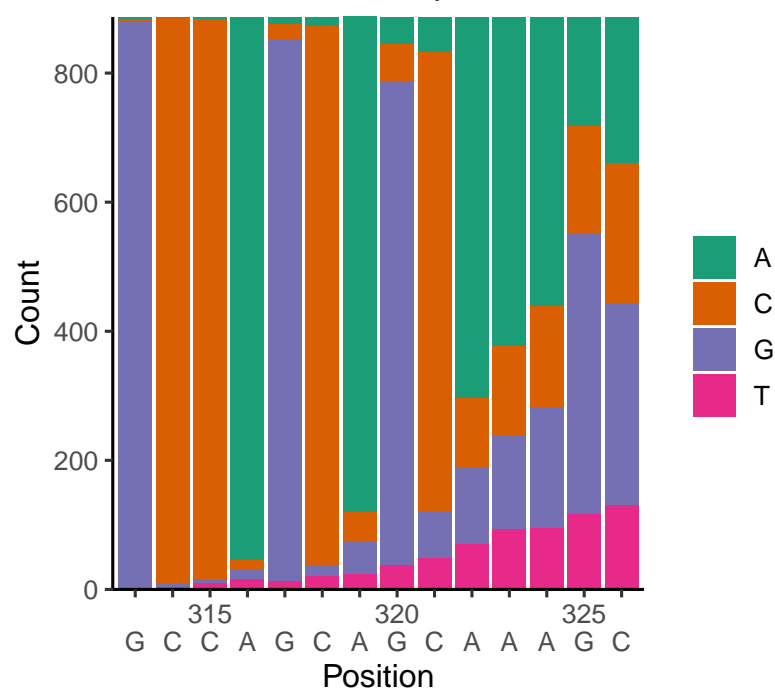
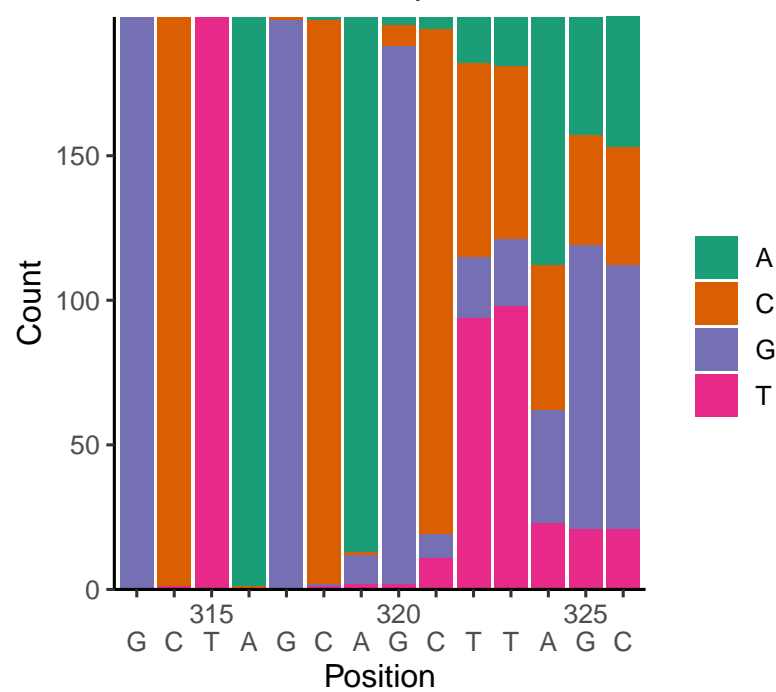


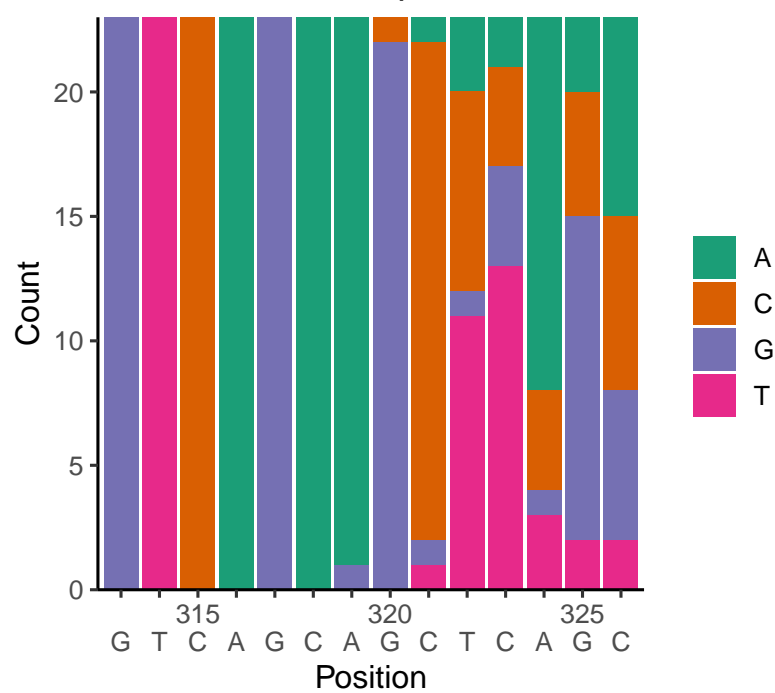
Gene TRBV21-1\*ap01\_T307C



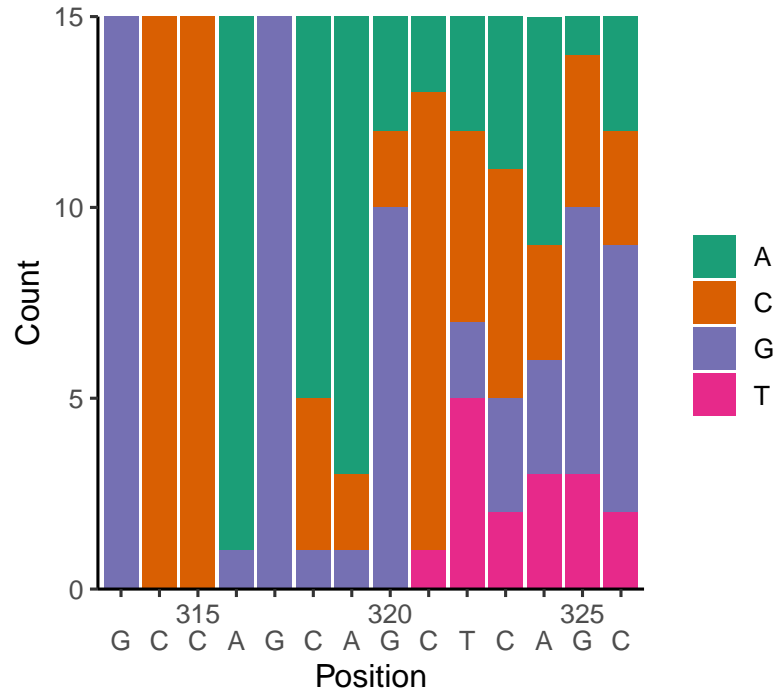
Gene TRBV7-7\*ap01\_C315T



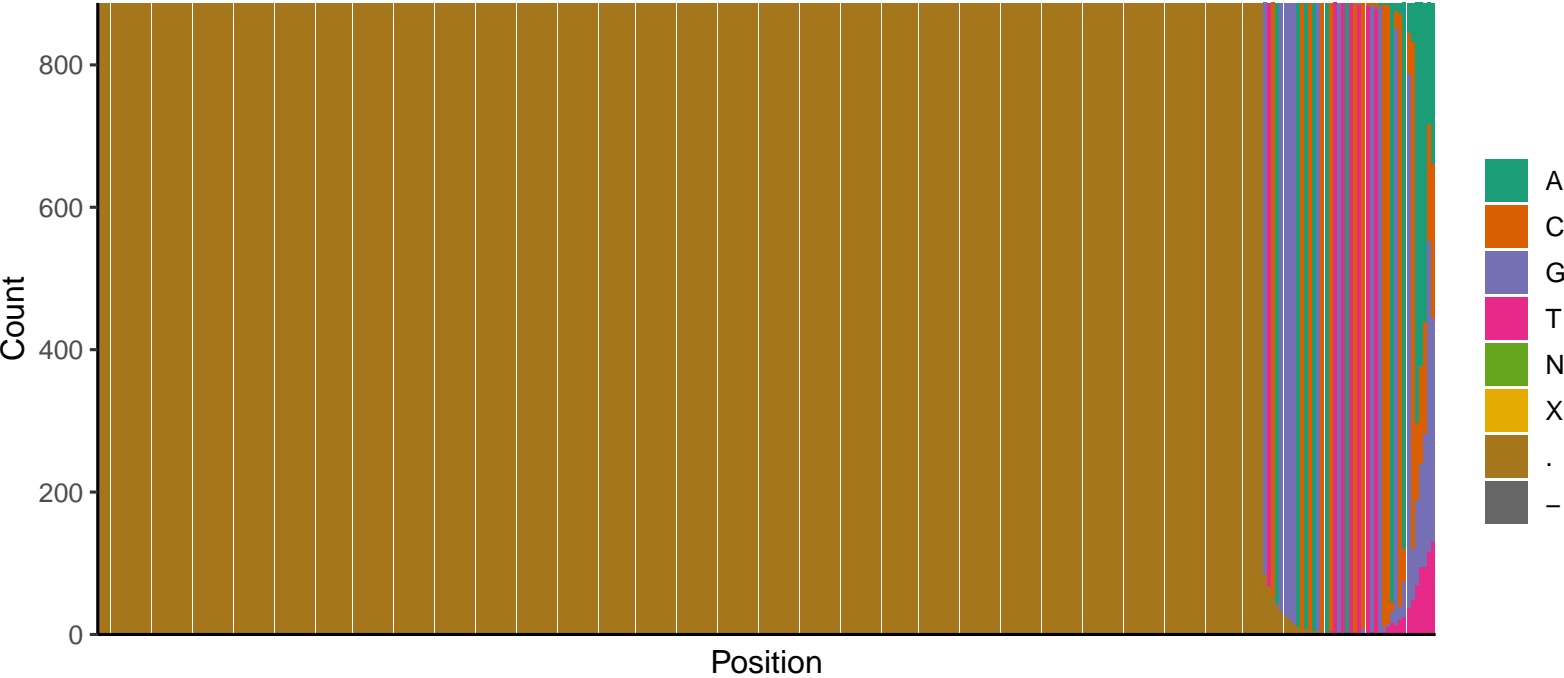
Gene TRBV7-1\*ap01\_T296C\_C314T



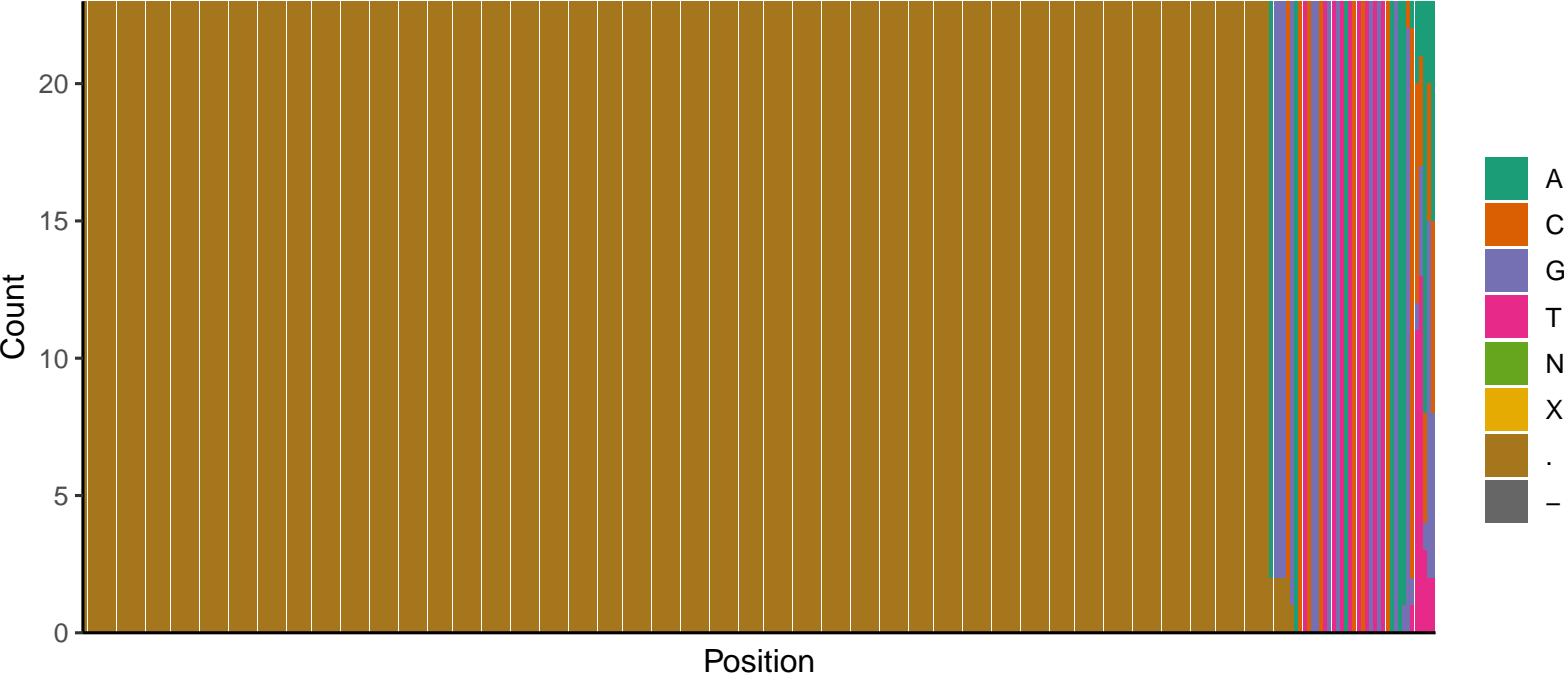
Gene TRBV7-1\*ap01\_T296C



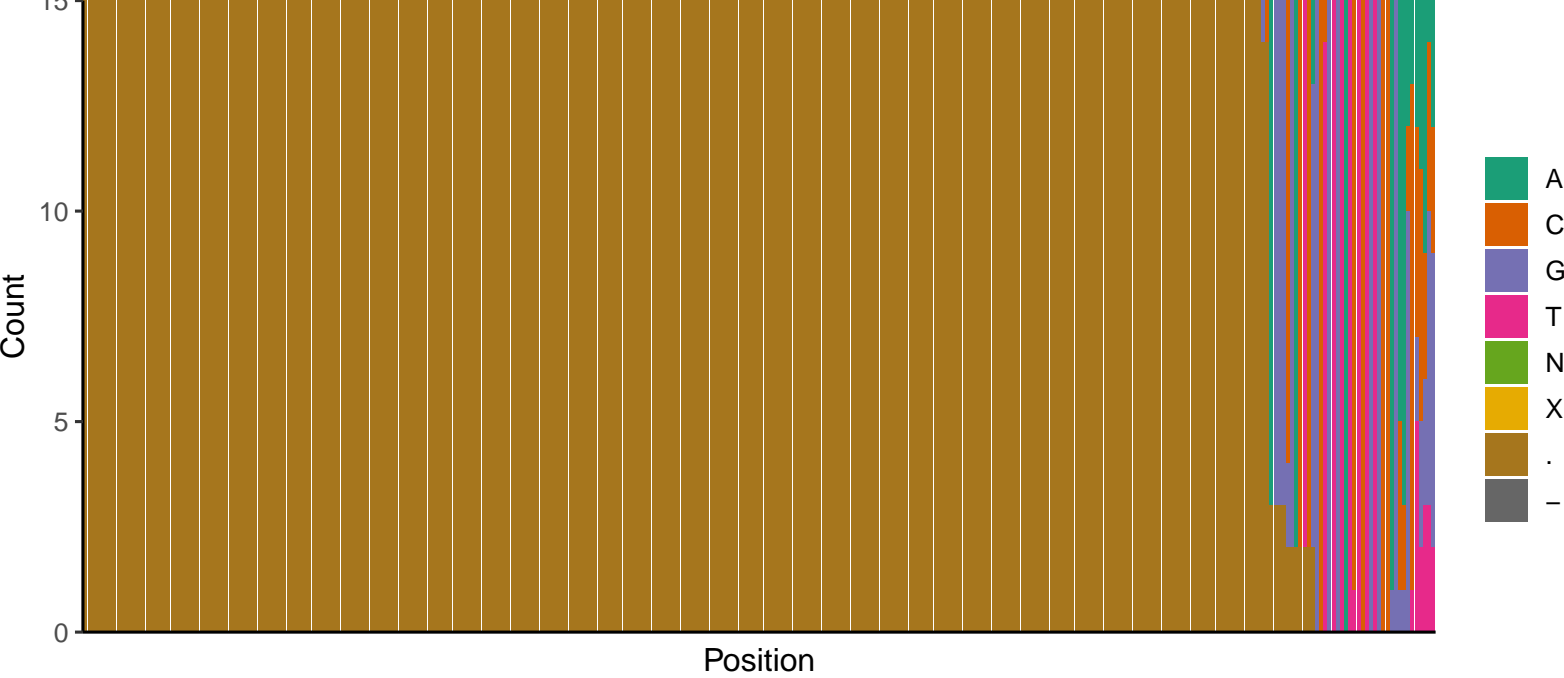
Gene TRBV21-1\*ap01\_T307C



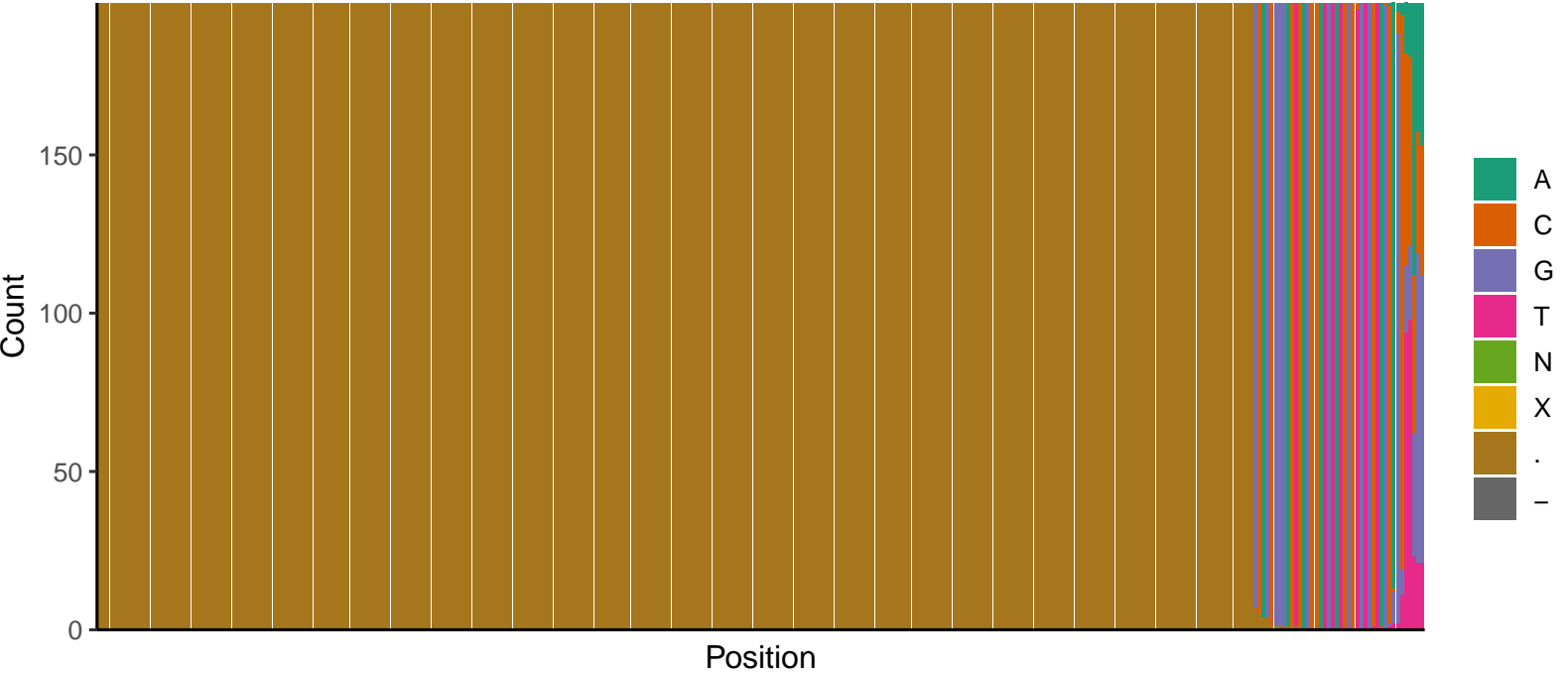
Gene TRBV7-1\*ap01\_T296C\_C314T



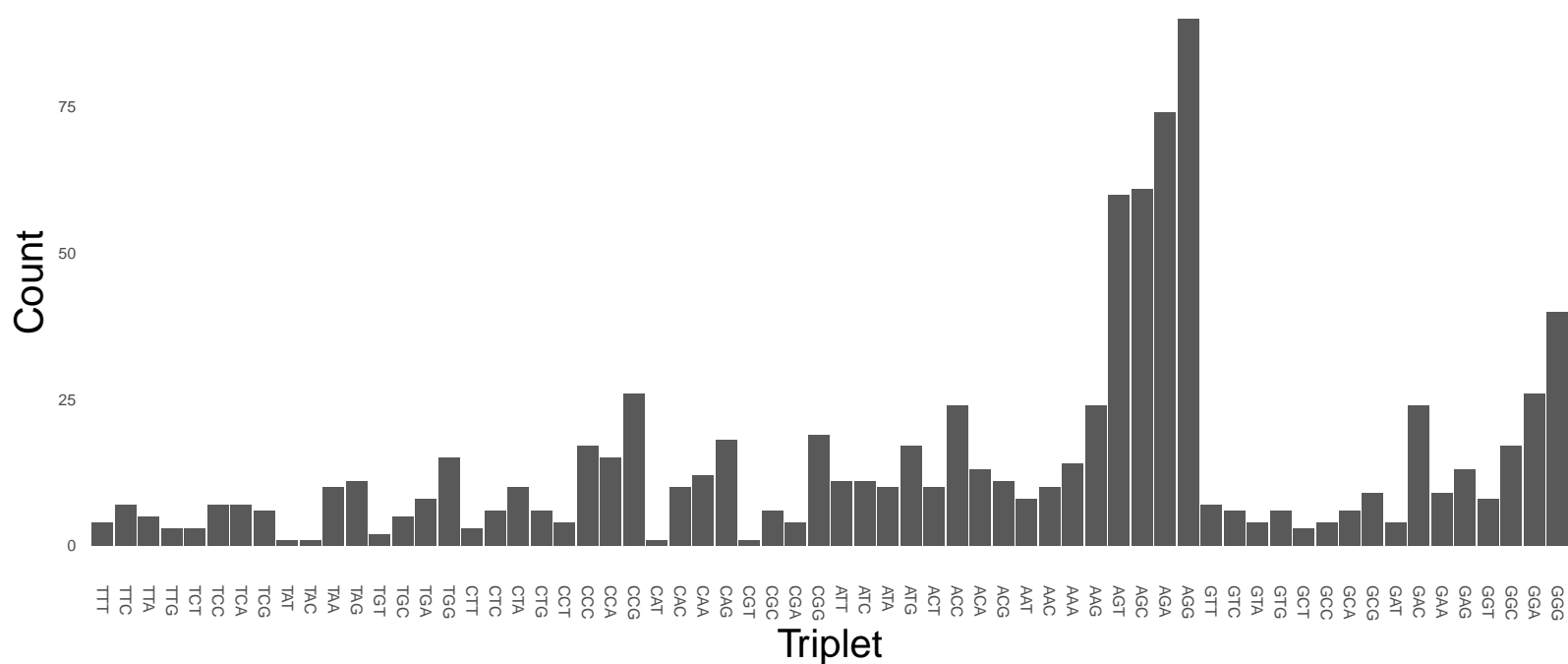
Gene TRBV7-1\*ap01\_T296C



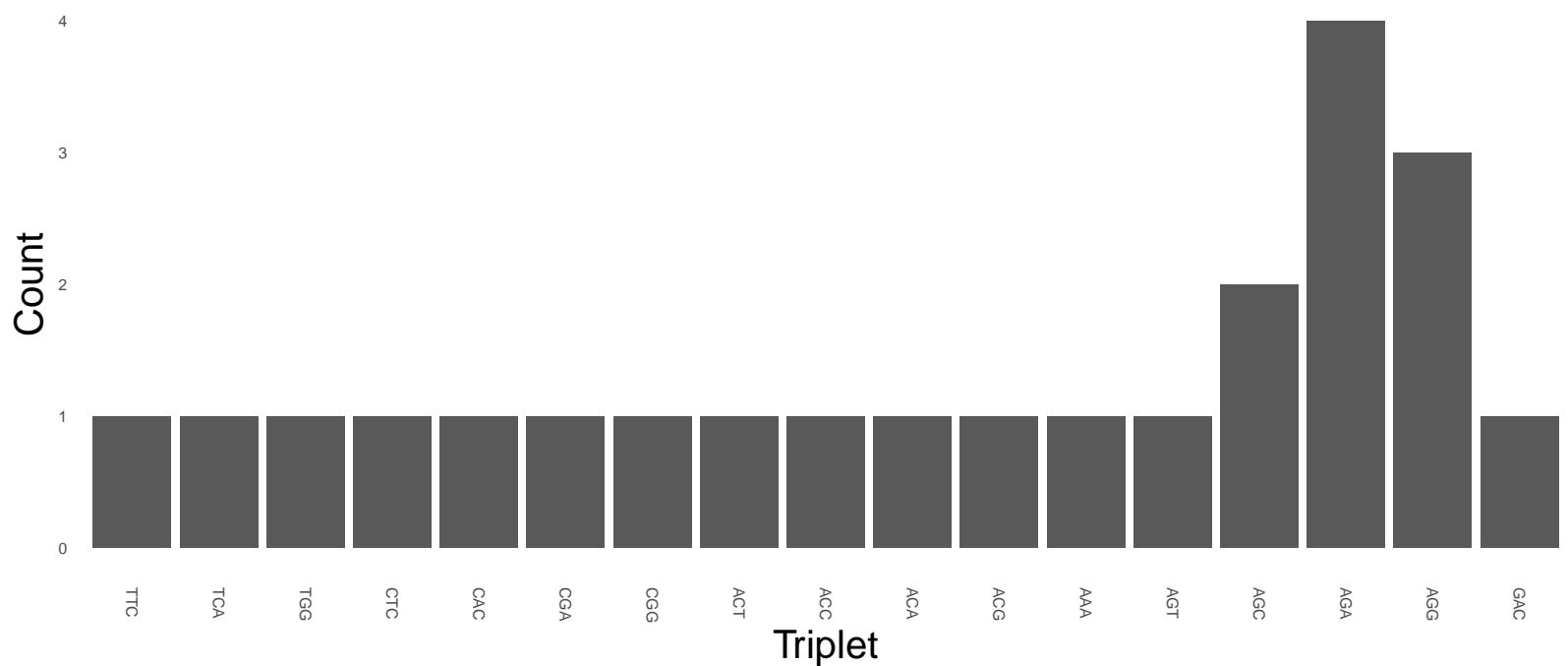
Gene TRBV7-7\*ap01\_C315T



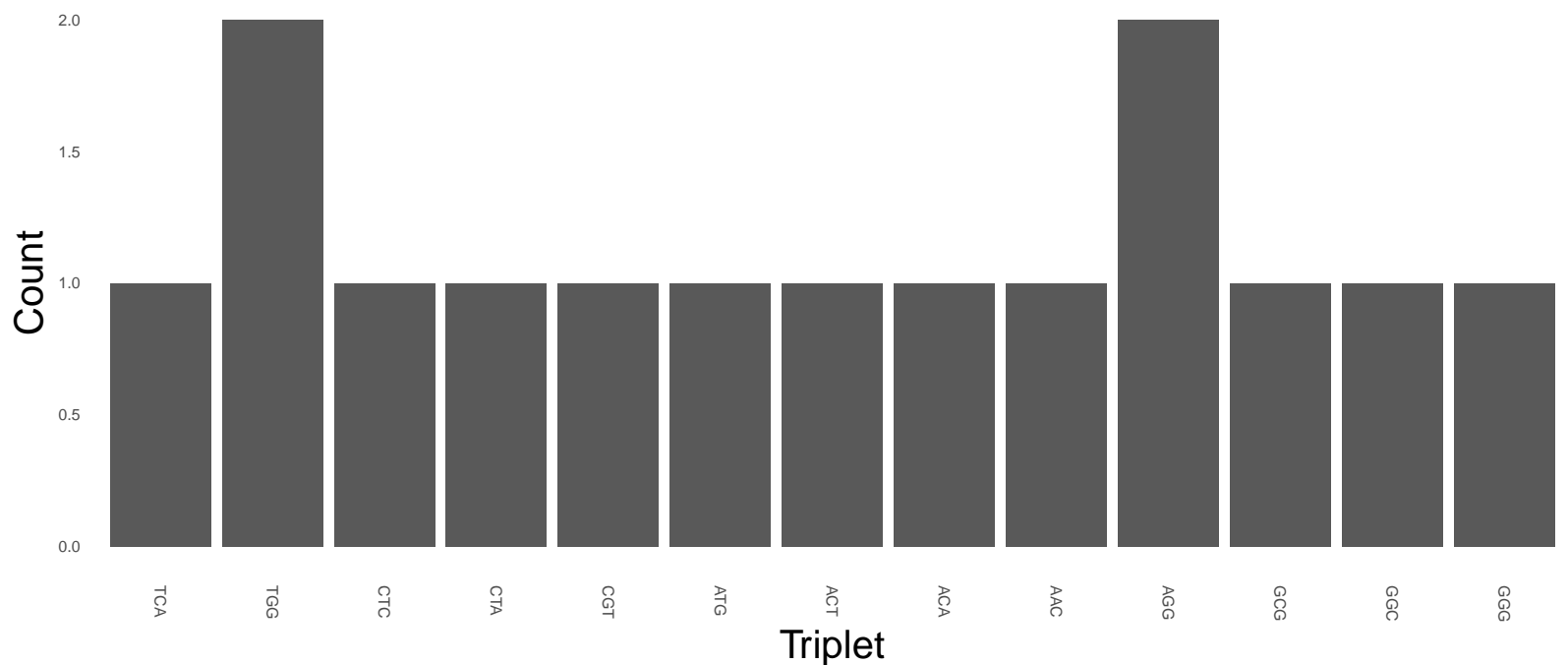
TRBV21-1\*ap01\_T307C- Final 3 nucleotides as a triplet



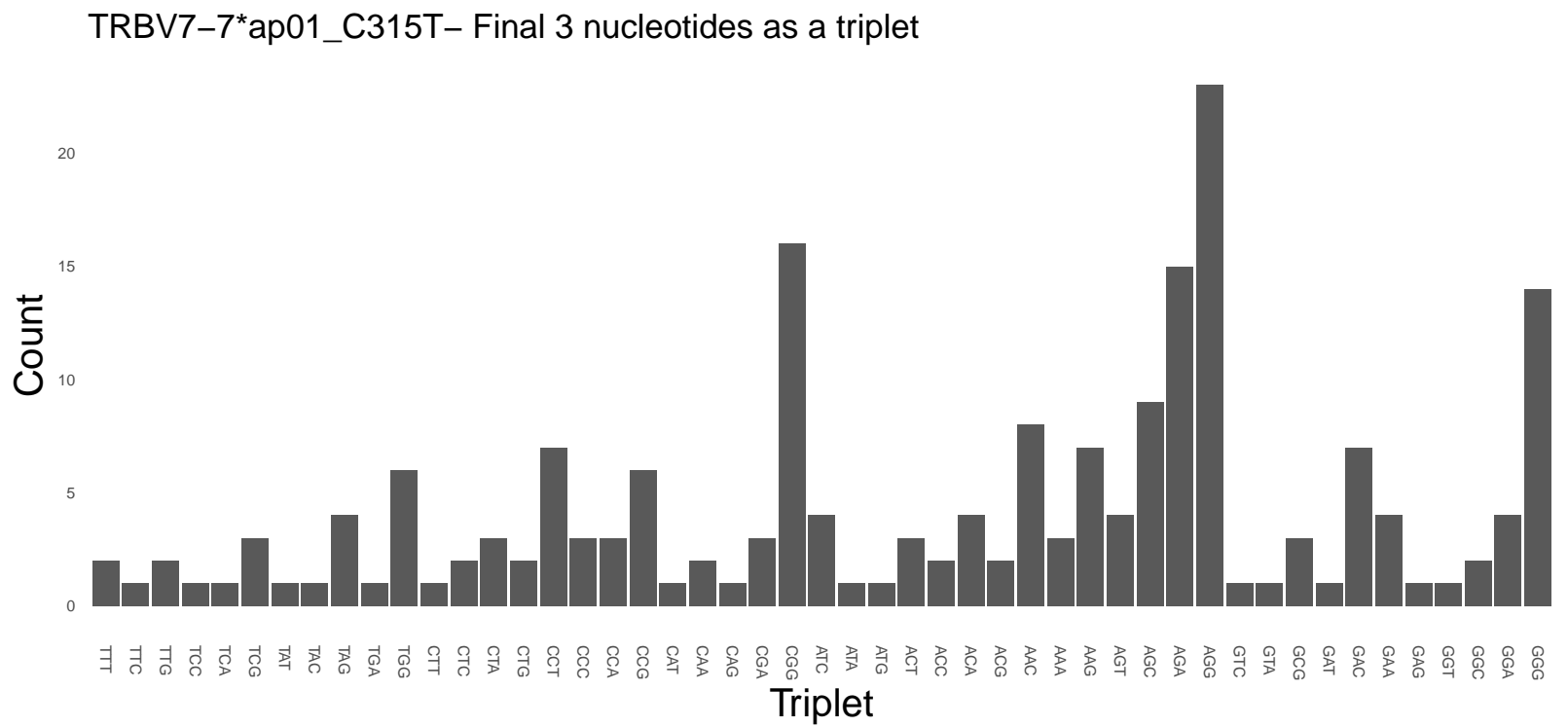
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

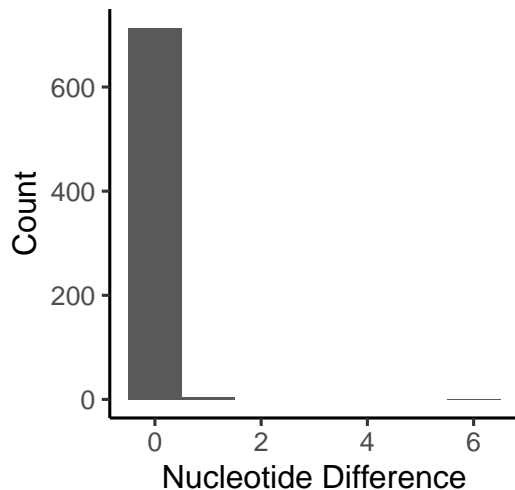


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



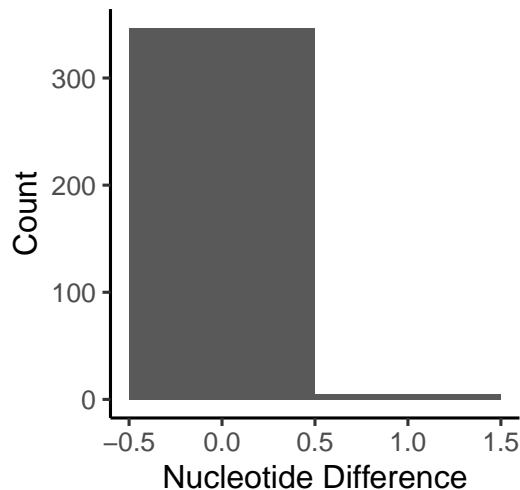
### TRBV10–1\*ap01

720 sequences assigned  
714 (99.2%) exact matches, in which:  
696 unique CDR3  
13 unique J



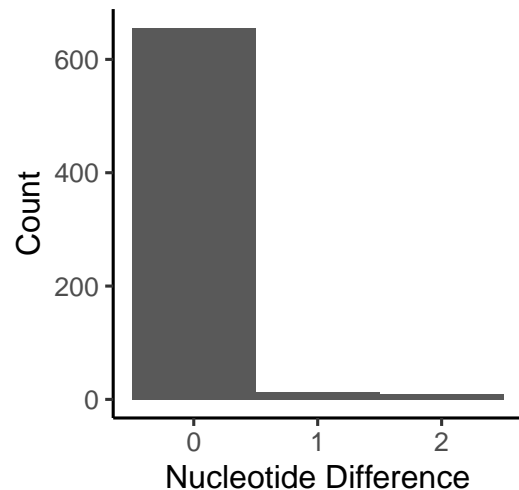
### TRBV10–2\*ap01

352 sequences assigned  
347 (98.6%) exact matches, in which:  
345 unique CDR3  
13 unique J



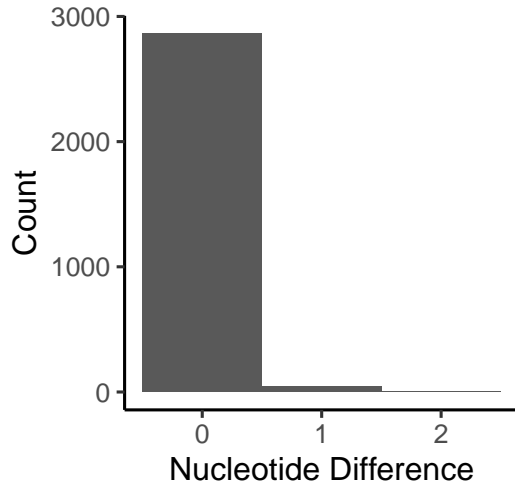
### TRBV13\*ap01

678 sequences assigned  
656 (96.8%) exact matches, in which:  
645 unique CDR3  
13 unique J



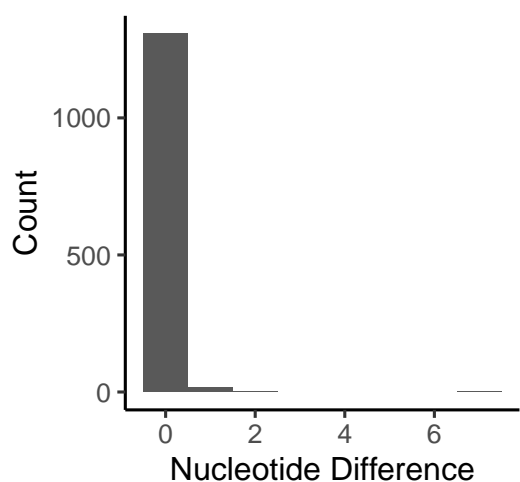
### TRBV20–1\*ap01

2905 sequences assigned  
2862 (98.5%) exact matches, in which:  
2809 unique CDR3  
13 unique J



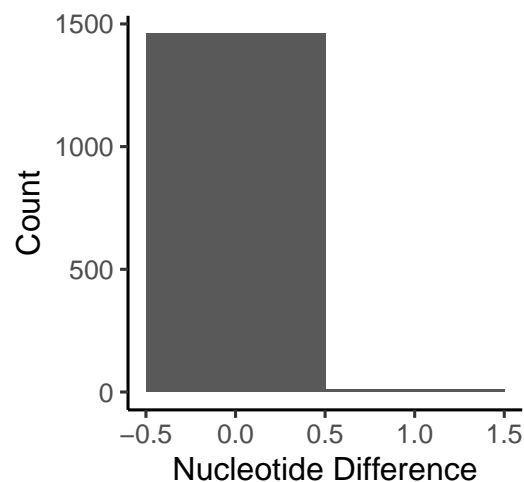
### TRBV10–3\*ap01

1325 sequences assigned  
1307 (98.6%) exact matches, in which:  
1289 unique CDR3  
13 unique J



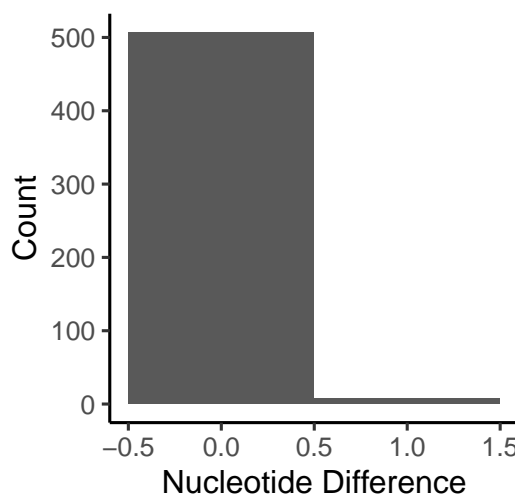
### TRBV14\*ap01

1472 sequences assigned  
1460 (99.2%) exact matches, in which:  
1437 unique CDR3  
13 unique J



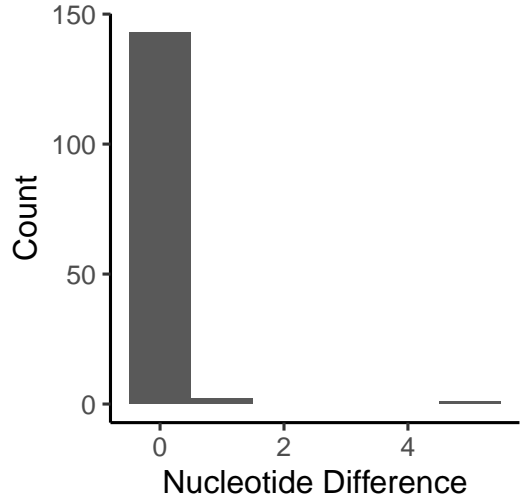
### TRBV20–1\*ap02

515 sequences assigned  
507 (98.4%) exact matches, in which:  
498 unique CDR3  
13 unique J



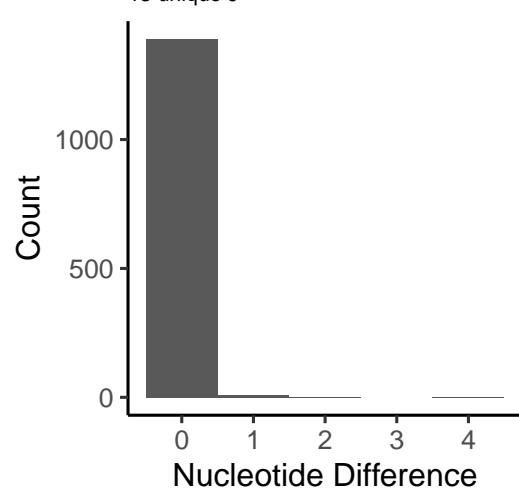
### TRBV1\*ap01

146 sequences assigned  
143 (97.9%) exact matches, in which:  
140 unique CDR3  
12 unique J



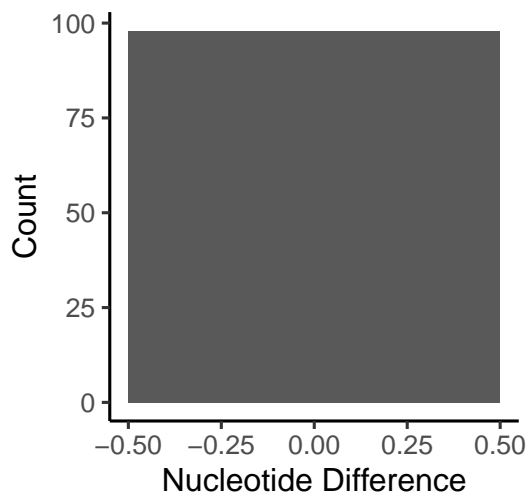
### TRBV15\*ap02

1402 sequences assigned  
1390 (99.1%) exact matches, in which:  
1355 unique CDR3  
13 unique J



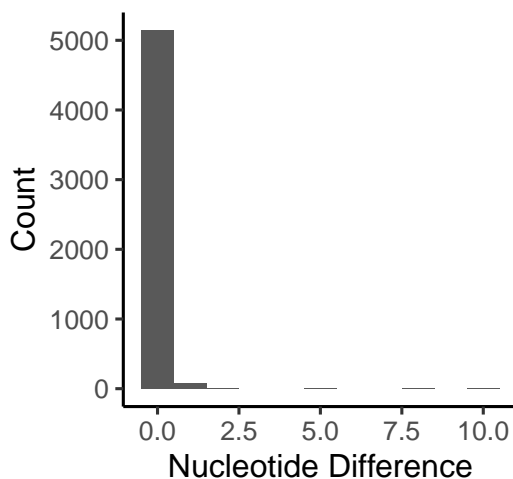
### TRBV16\*ap01

98 sequences assigned  
98 (100%) exact matches, in which:  
96 unique CDR3  
12 unique J



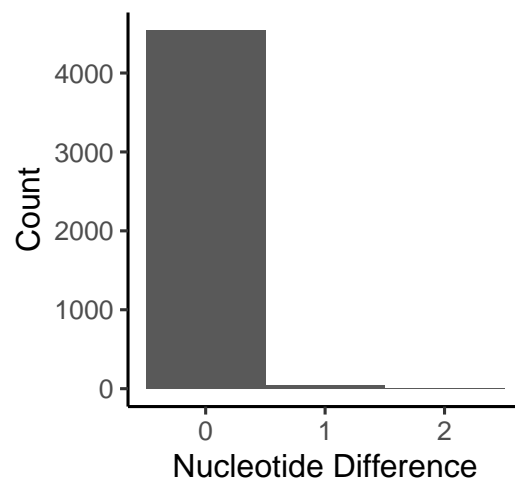
### TRBV19\*ap01

5231 sequences assigned  
5142 (98.3%) exact matches, in which:  
5073 unique CDR3  
13 unique J



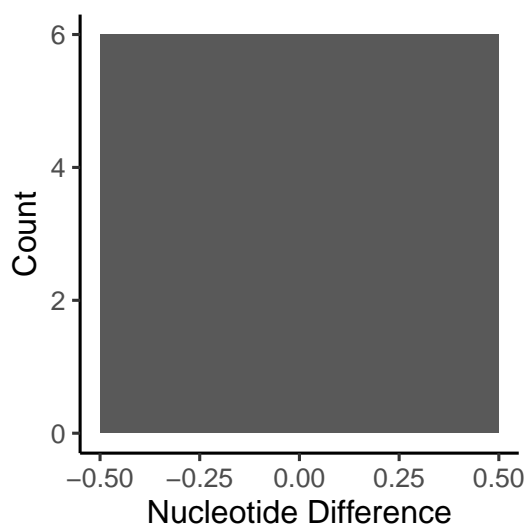
### TRBV28\*ap01

4590 sequences assigned  
4540 (98.9%) exact matches, in which:  
4442 unique CDR3  
13 unique J



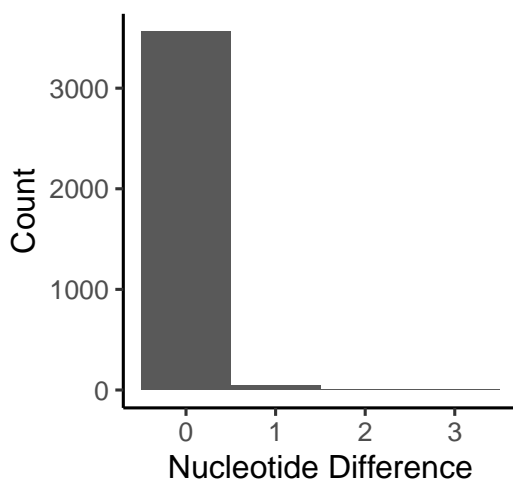
### TRBV17\*ap01

6 sequences assigned  
6 (100%) exact matches, in which:  
6 unique CDR3  
4 unique J



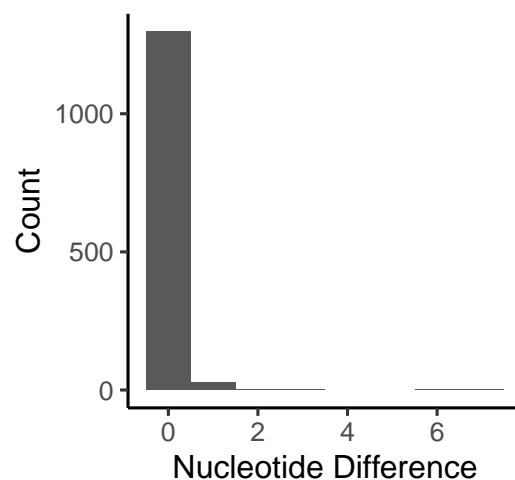
### TRBV2\*ap01

3607 sequences assigned  
3561 (98.7%) exact matches, in which:  
3526 unique CDR3  
13 unique J



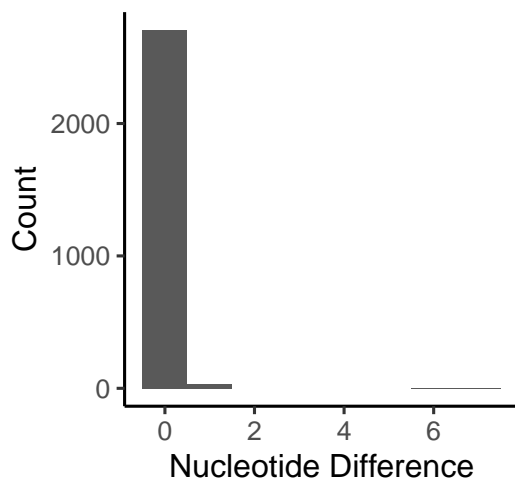
### TRBV30\*ap02

1329 sequences assigned  
1297 (97.6%) exact matches, in which:  
1283 unique CDR3  
13 unique J



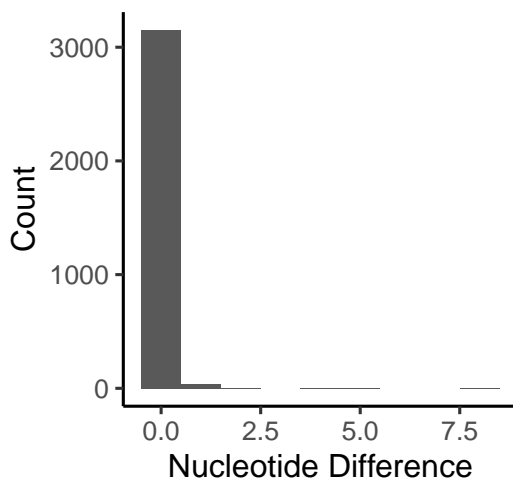
### TRBV18\*ap01

2741 sequences assigned  
2706 (98.7%) exact matches, in which:  
2659 unique CDR3  
13 unique J



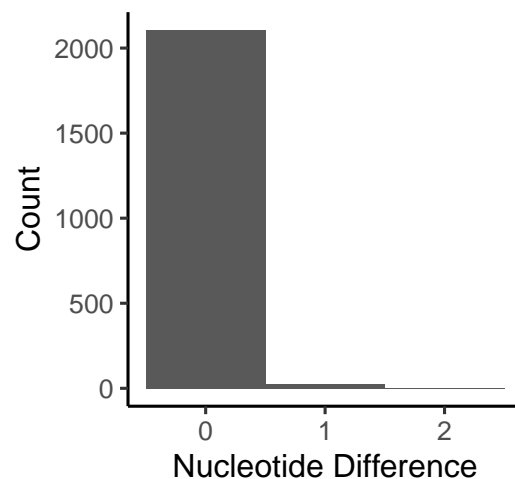
### TRBV27\*ap01

3197 sequences assigned  
3151 (98.6%) exact matches, in which:  
3095 unique CDR3  
13 unique J



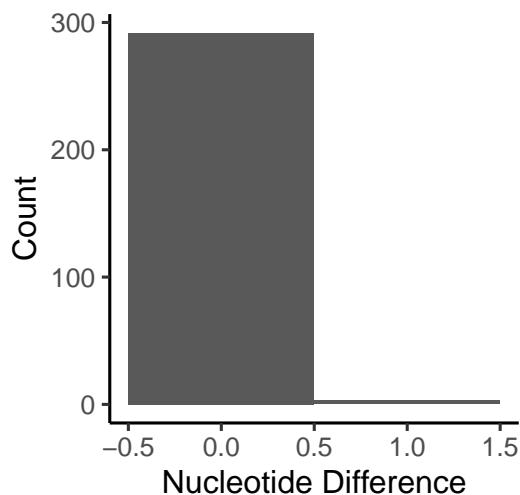
### TRBV9\*ap01

2133 sequences assigned  
2106 (98.7%) exact matches, in which:  
2058 unique CDR3  
13 unique J



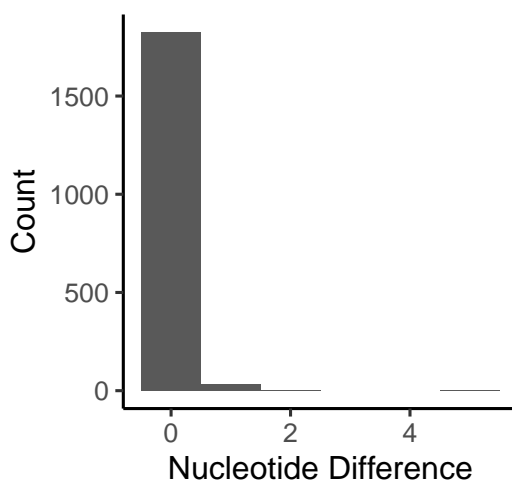
### TRBV11-1\*ap01

295 sequences assigned  
292 (99%) exact matches, in which:  
289 unique CDR3  
13 unique J



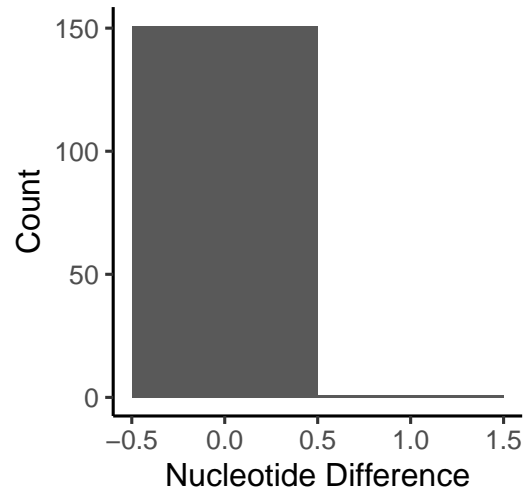
### TRBV11-2\*ap01

1862 sequences assigned  
1824 (98%) exact matches, in which:  
1775 unique CDR3  
13 unique J



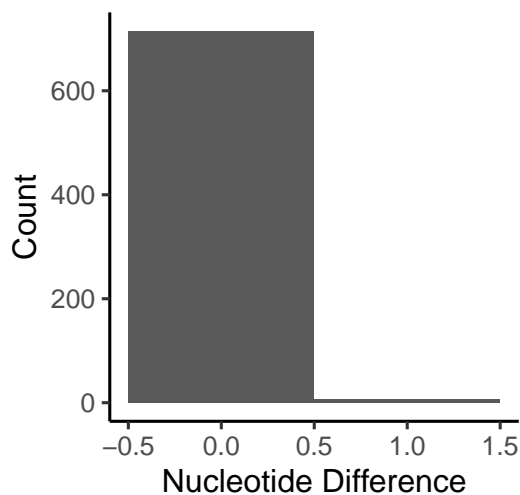
### TRBV12-2\*ap01

152 sequences assigned  
151 (99.3%) exact matches, in which:  
148 unique CDR3  
13 unique J



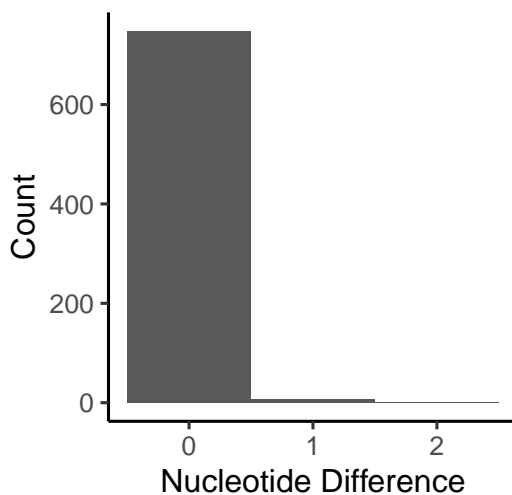
### TRBV21-1\*ap01

722 sequences assigned  
715 (99%) exact matches, in which:  
701 unique CDR3  
13 unique J



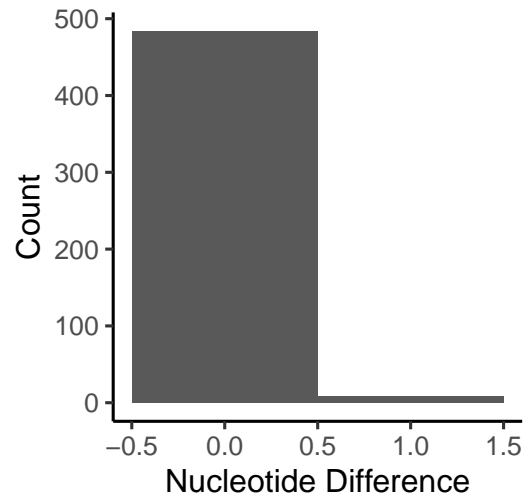
### TRBV11-3\*ap01

756 sequences assigned  
748 (98.9%) exact matches, in which:  
743 unique CDR3  
13 unique J



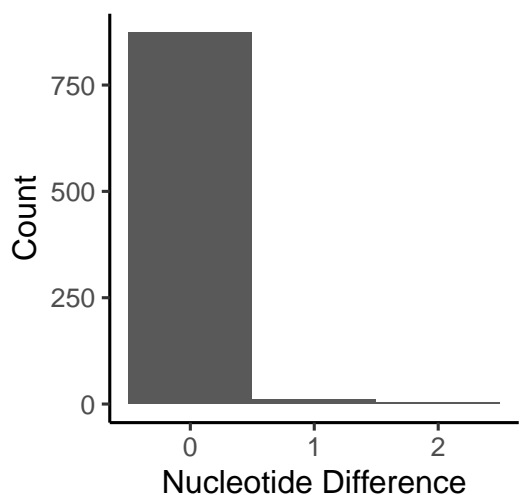
### TRBV12-5\*ap01

492 sequences assigned  
484 (98.4%) exact matches, in which:  
477 unique CDR3  
13 unique J



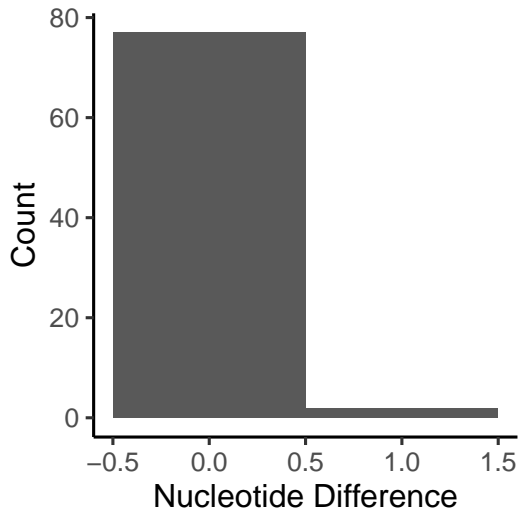
### TRBV21-1\*ap01\_T307C

887 sequences assigned  
874 (98.5%) exact matches, in which:  
863 unique CDR3  
13 unique J



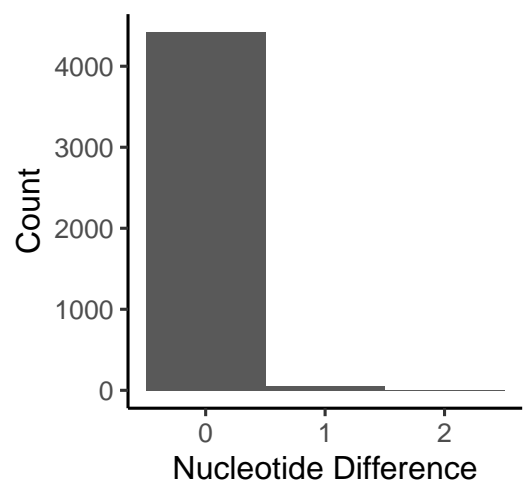
### TRBV12-1\*ap01

79 sequences assigned  
77 (97.5%) exact matches, in which:  
75 unique CDR3  
12 unique J



### TRBV12-34\*ap01

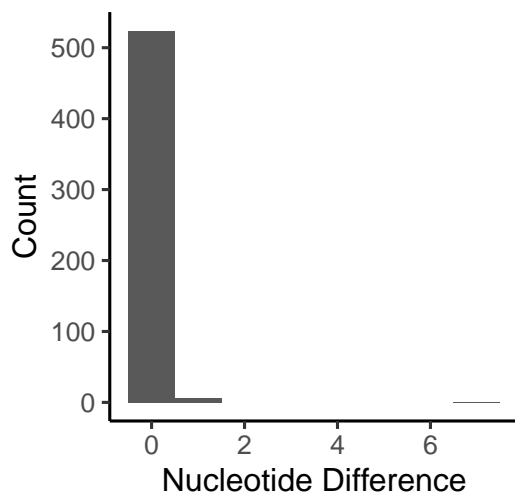
4480 sequences assigned  
4422 (98.7%) exact matches, in which:  
4341 unique CDR3  
13 unique J





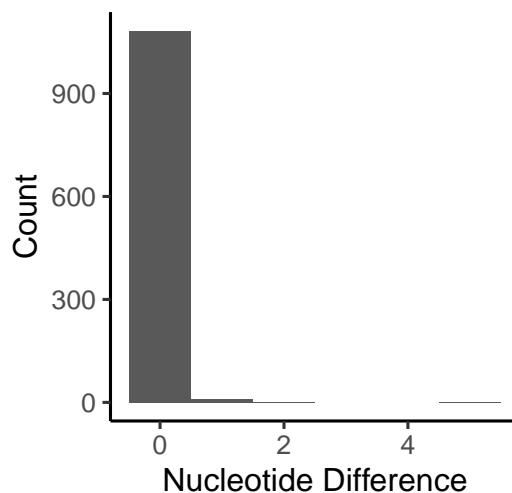
### TRBV23-1\*ap01

531 sequences assigned  
524 (98.7%) exact matches, in which:  
511 unique CDR3  
13 unique J



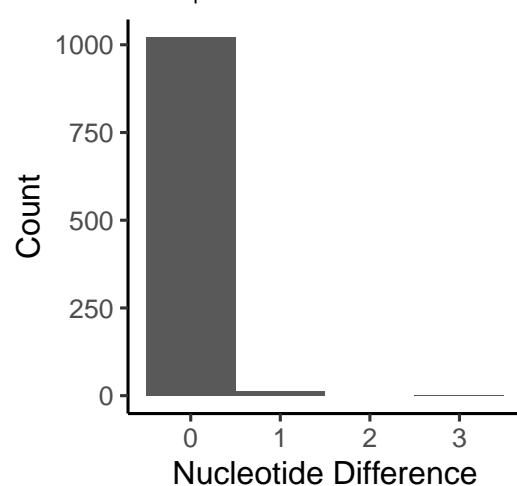
### TRBV4-1\*ap01

1096 sequences assigned  
1083 (98.8%) exact matches, in which:  
1064 unique CDR3  
13 unique J



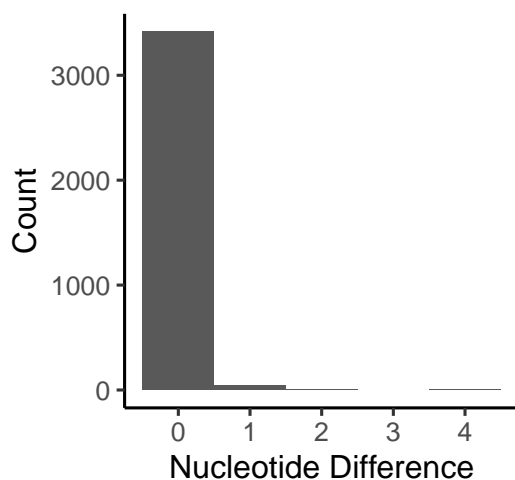
### TRBV25-1\*ap01

1035 sequences assigned  
1021 (98.6%) exact matches, in which:  
1013 unique CDR3  
13 unique J



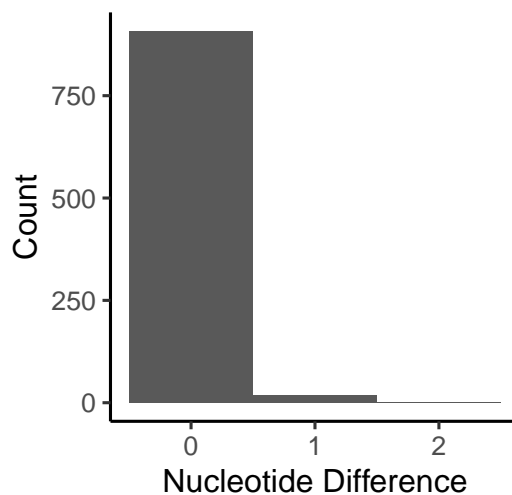
### TRBV3-12\*ap01

3465 sequences assigned  
3415 (98.6%) exact matches, in which:  
3364 unique CDR3  
13 unique J



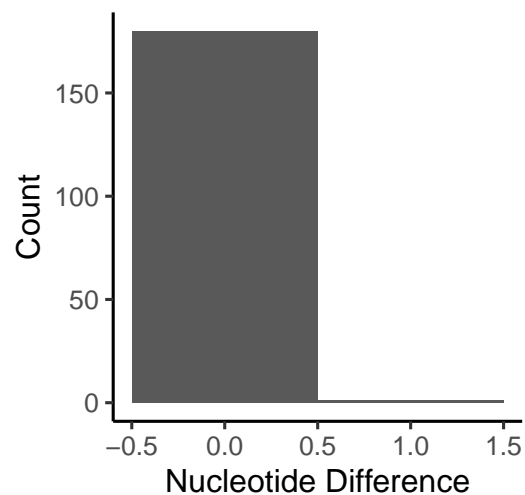
### TRBV4-2\*ap01

929 sequences assigned  
908 (97.7%) exact matches, in which:  
901 unique CDR3  
13 unique J



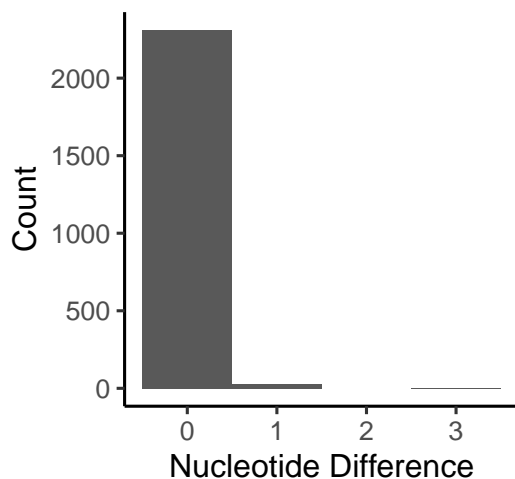
### TRBV5-3\*ap01

181 sequences assigned  
180 (99.4%) exact matches, in which:  
175 unique CDR3  
12 unique J



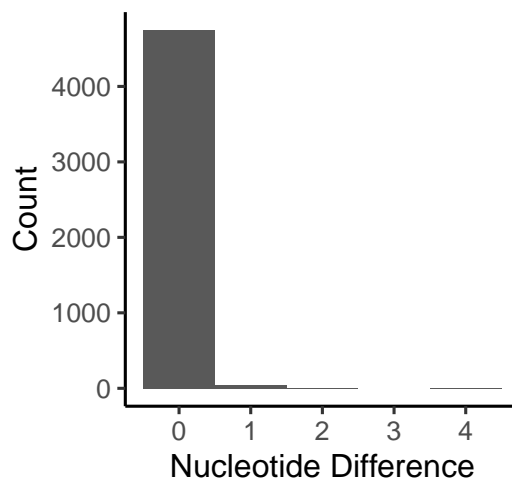
### TRBV24-1\*ap01

2339 sequences assigned  
2310 (98.8%) exact matches, in which:  
2289 unique CDR3  
13 unique J



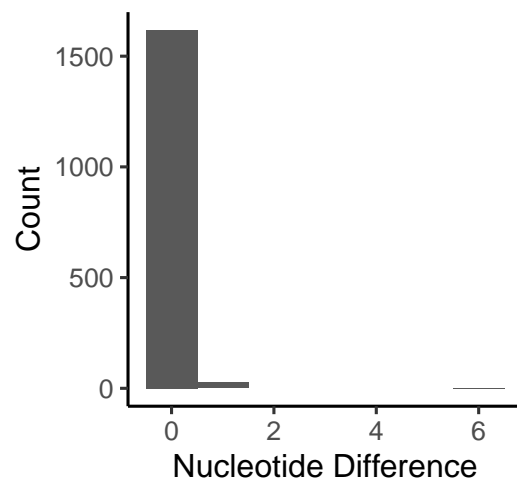
### TRBV5-1\*ap01

4794 sequences assigned  
4747 (99%) exact matches, in which:  
4619 unique CDR3  
13 unique J



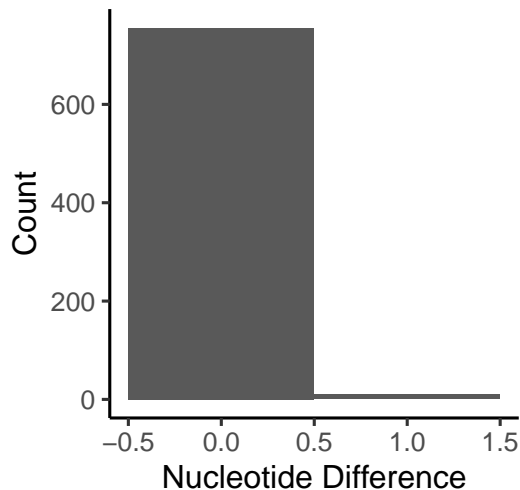
### TRBV5-4\*ap01

1646 sequences assigned  
1618 (98.3%) exact matches, in which:  
1585 unique CDR3  
13 unique J



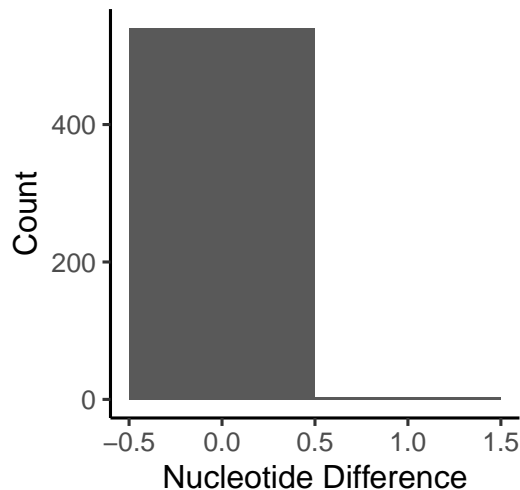
### TRBV5-5\*ap01

766 sequences assigned  
756 (98.7%) exact matches, in which:  
740 unique CDR3  
13 unique J



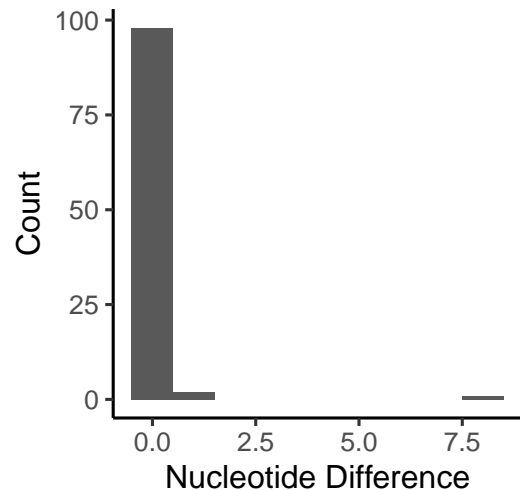
### TRBV5-8\*ap01

544 sequences assigned  
541 (99.4%) exact matches, in which:  
535 unique CDR3  
13 unique J



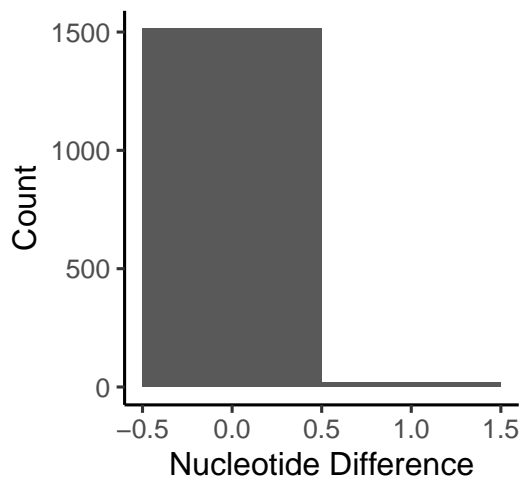
### TRBV6-7\*ap01

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



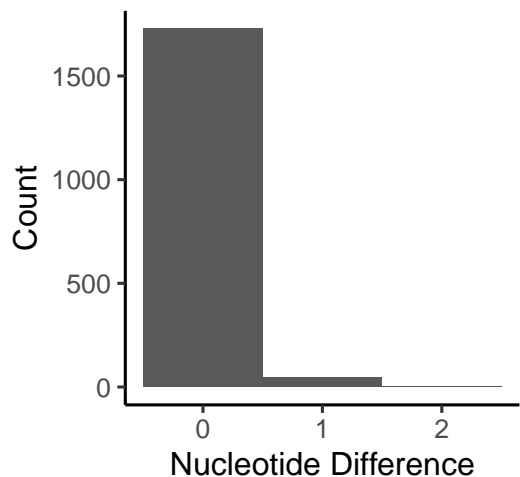
### TRBV5-6\*ap01

1535 sequences assigned  
1514 (98.6%) exact matches, in which:  
1496 unique CDR3  
13 unique J



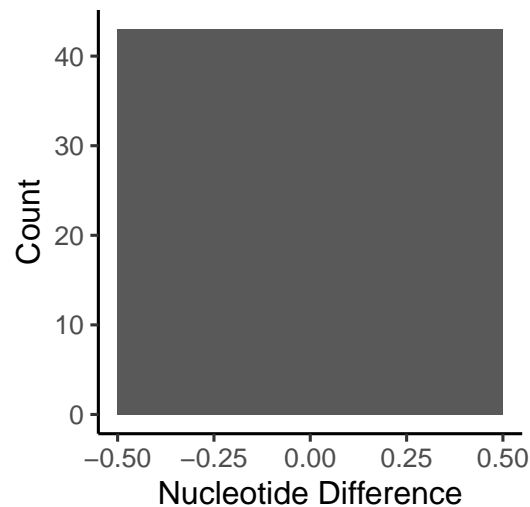
### TRBV6-1\*ap01

1776 sequences assigned  
1728 (97.3%) exact matches, in which:  
1705 unique CDR3  
13 unique J



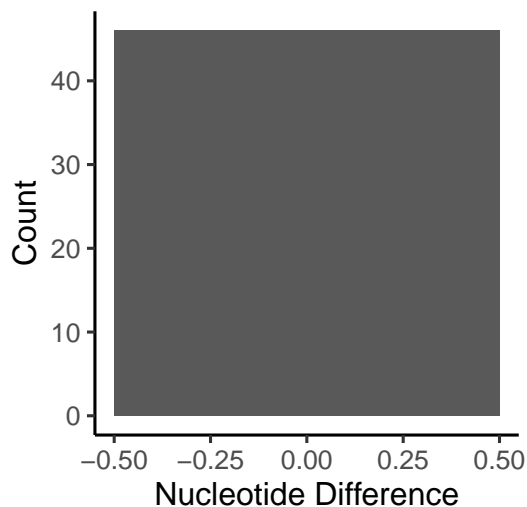
### TRBV6-8\*ap01

43 sequences assigned  
43 (100%) exact matches, in which:  
42 unique CDR3  
10 unique J



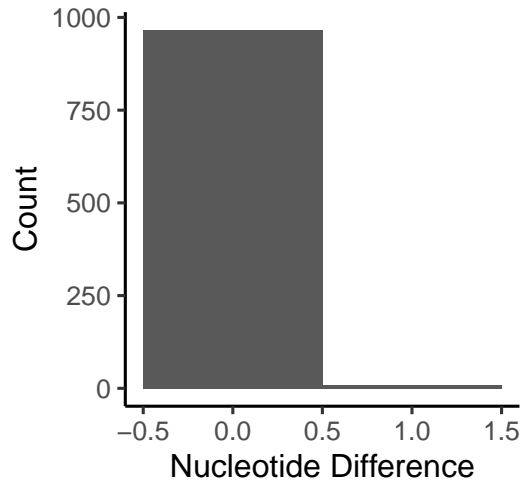
### TRBV5-7\*ap01

46 sequences assigned  
46 (100%) exact matches, in which:  
46 unique CDR3  
10 unique J



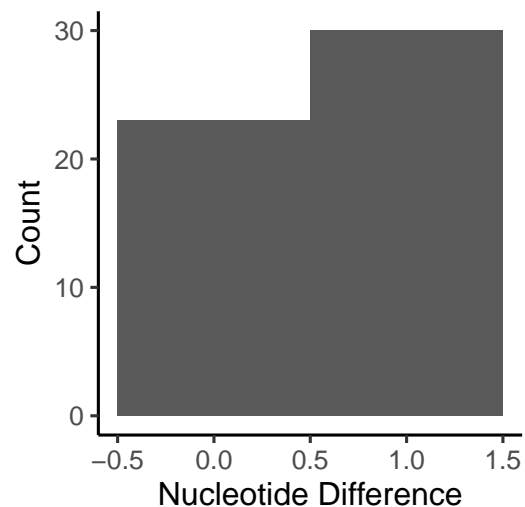
### TRBV6-4\*ap01

975 sequences assigned  
966 (99.1%) exact matches, in which:  
952 unique CDR3  
13 unique J



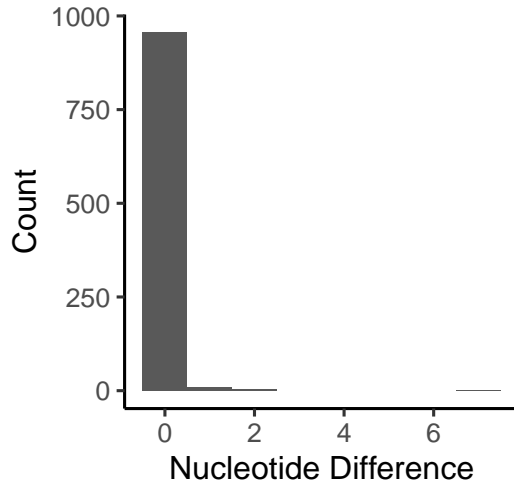
### TRBV6-9\*ap01

53 sequences assigned  
23 (43.4%) exact matches, in which:  
22 unique CDR3  
10 unique J



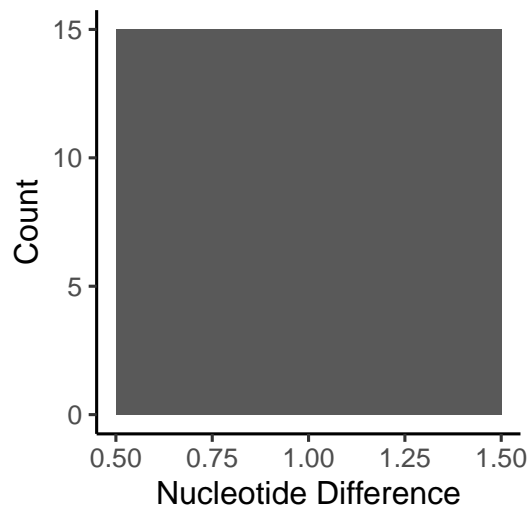
### TRBV6-23\*ap01

970 sequences assigned  
956 (98.6%) exact matches, in which:  
941 unique CDR3  
13 unique J



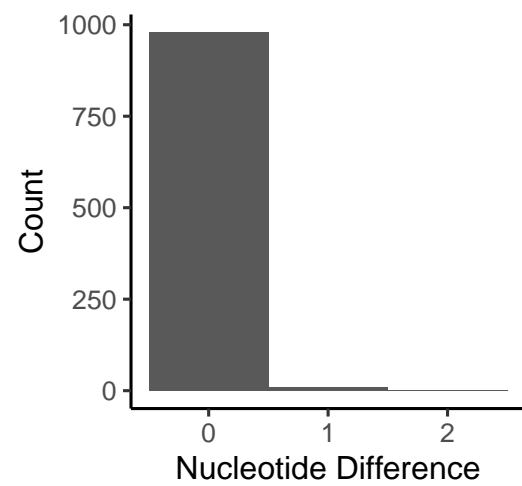
### TRBV7-1\*ap01\_T296C

15 sequences assigned  
No exact matches.



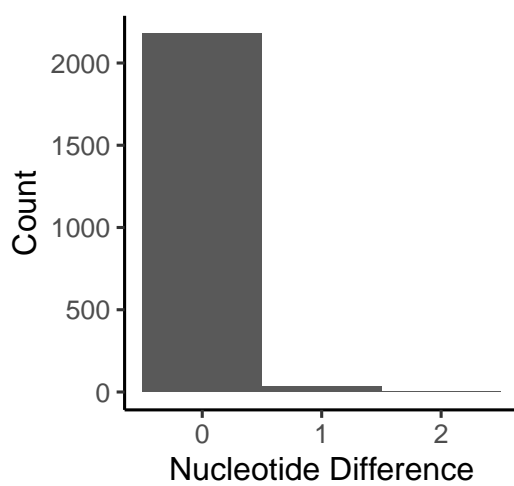
### TRBV7-3\*ap01

989 sequences assigned  
979 (99%) exact matches, in which:  
958 unique CDR3  
13 unique J



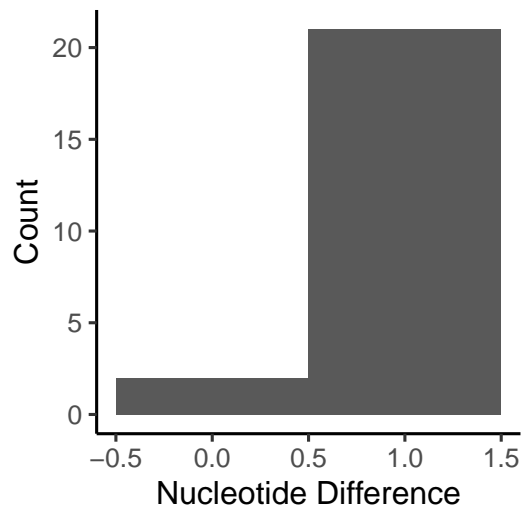
### TRBV6-56\*ap01

2212 sequences assigned  
2178 (98.5%) exact matches, in which:  
2146 unique CDR3  
13 unique J



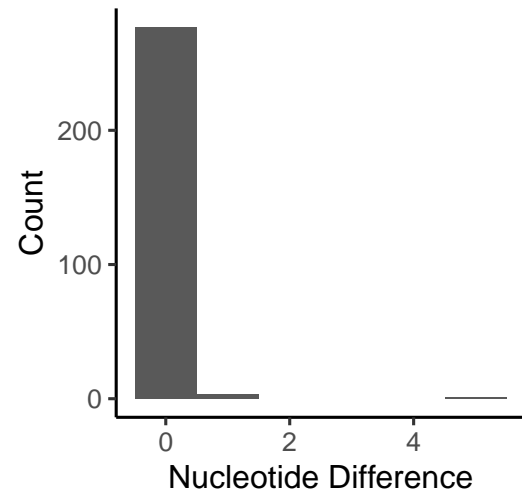
### TRBV7-1\*ap01\_T296C\_C

23 sequences assigned  
2 (8.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



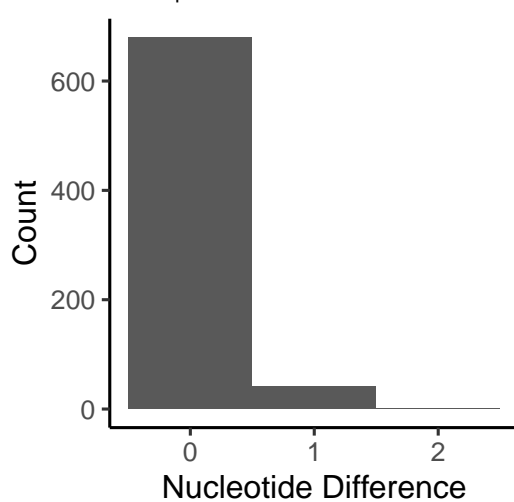
### TRBV7-3\*ap03

281 sequences assigned  
277 (98.6%) exact matches, in which:  
274 unique CDR3  
13 unique J



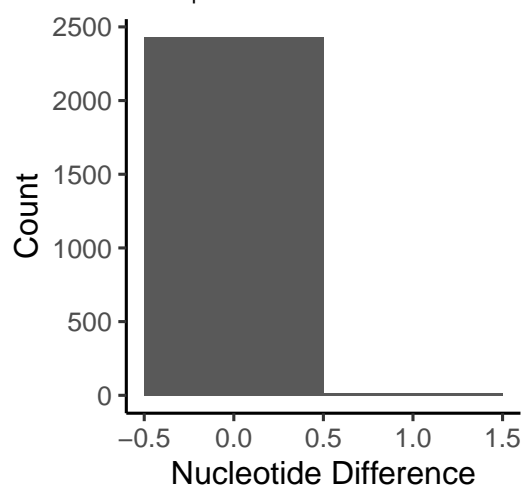
### TRBV6-56\*ap02

723 sequences assigned  
680 (94.1%) exact matches, in which:  
664 unique CDR3  
13 unique J



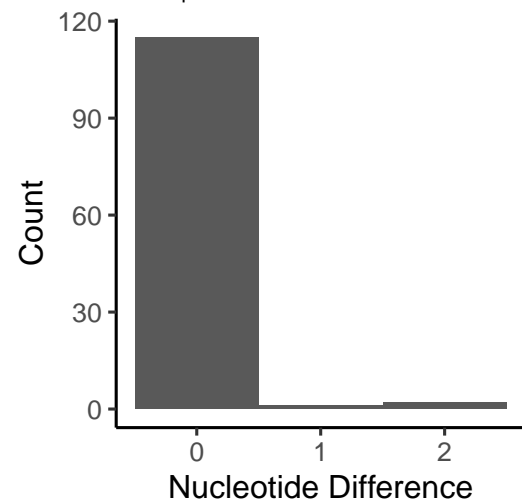
### TRBV7-2\*ap01

2446 sequences assigned  
2431 (99.4%) exact matches, in which:  
2380 unique CDR3  
13 unique J



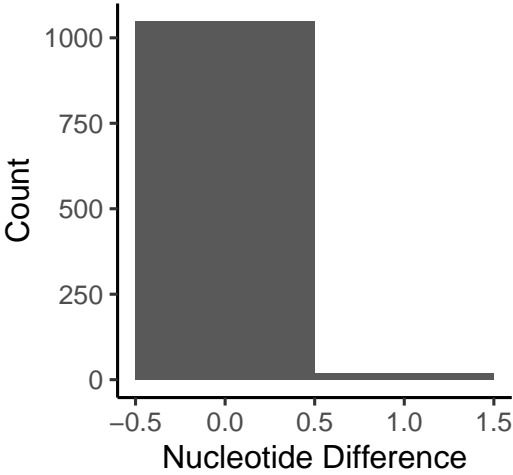
### TRBV7-4\*ap01

118 sequences assigned  
115 (97.5%) exact matches, in which:  
113 unique CDR3  
13 unique J



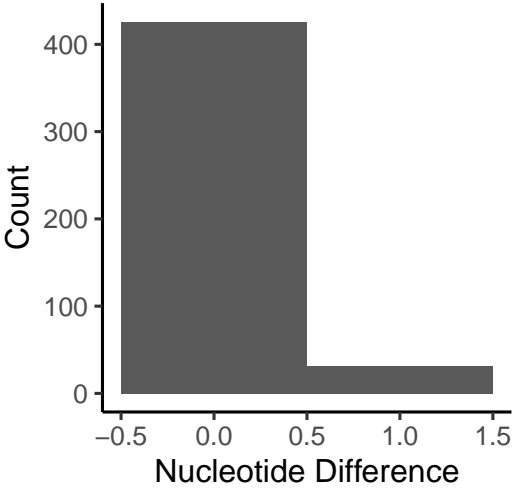
TRBV7-6\*ap01

1067 sequences assigned  
1048 (98.2%) exact matches, in which:  
1030 unique CDR3  
13 unique J



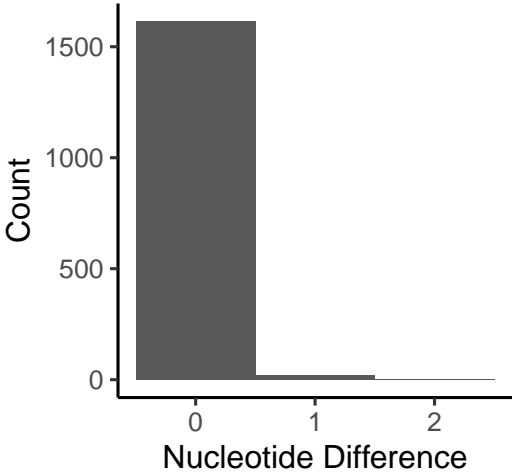
TRBV7-8\*ap01

457 sequences assigned  
426 (93.2%) exact matches, in which:  
417 unique CDR3  
13 unique J



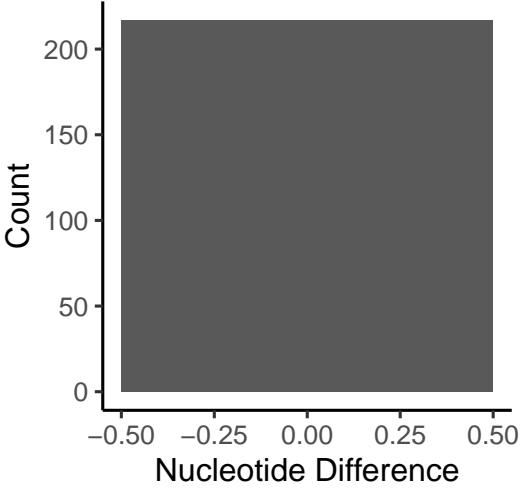
TRBV29-1\*ap01

1635 sequences assigned  
1614 (98.7%) exact matches, in which:  
1595 unique CDR3  
13 unique J



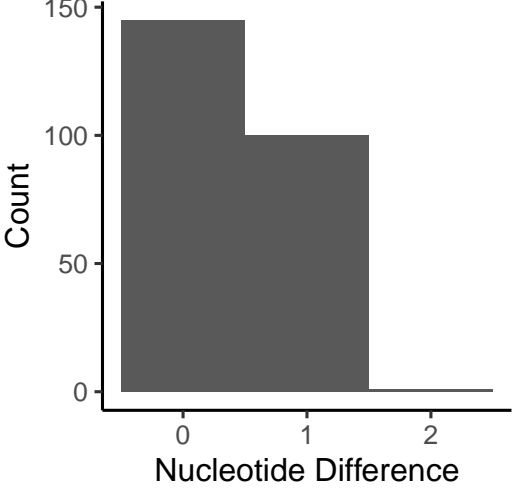
TRBV7-7\*ap01

217 sequences assigned  
217 (100%) exact matches, in which:  
213 unique CDR3  
13 unique J



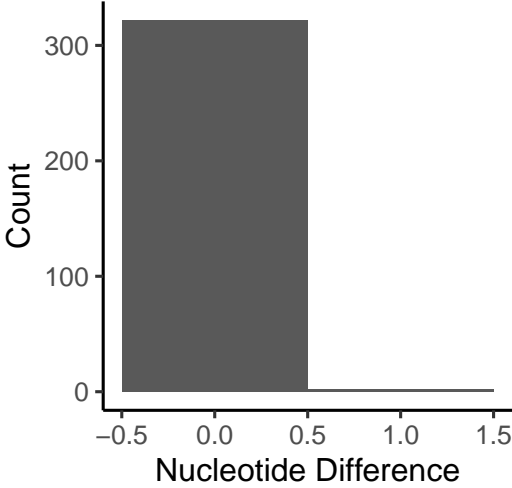
TRBV7-8\*ap03

246 sequences assigned  
145 (58.9%) exact matches, in which:  
143 unique CDR3  
13 unique J



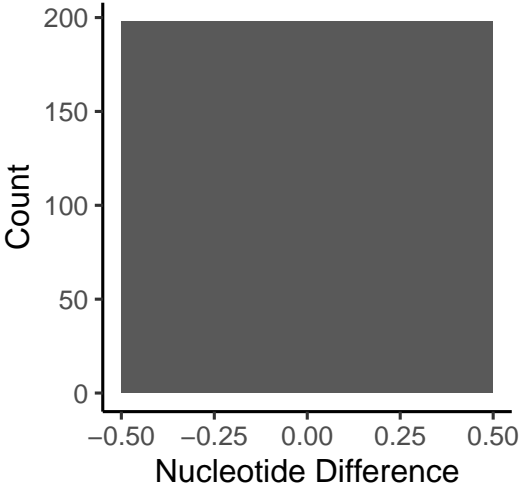
TRBV29-1\*ap02

324 sequences assigned  
322 (99.4%) exact matches, in which:  
318 unique CDR3  
13 unique J



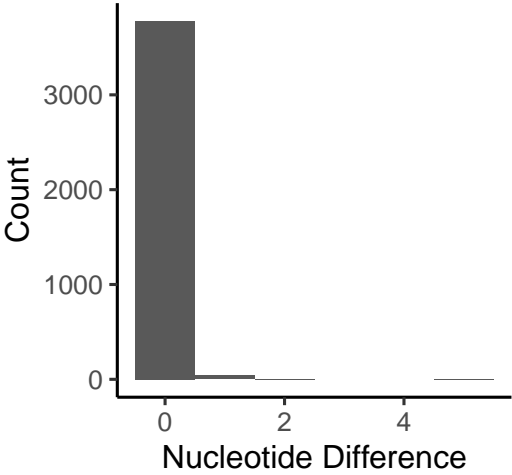
TRBV7-7\*ap01\_C315T

198 sequences assigned  
198 (100%) exact matches, in which:  
192 unique CDR3  
13 unique J

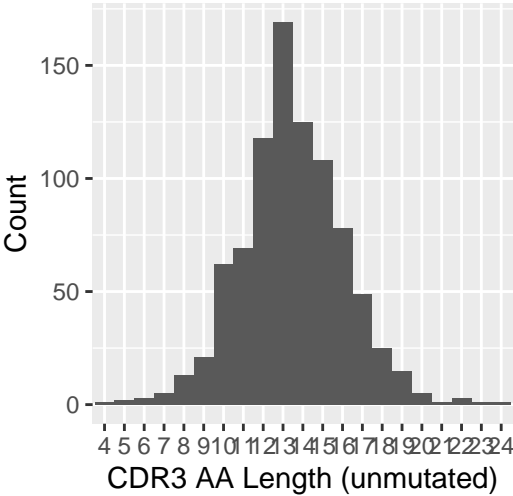


TRBV7-9\*ap01

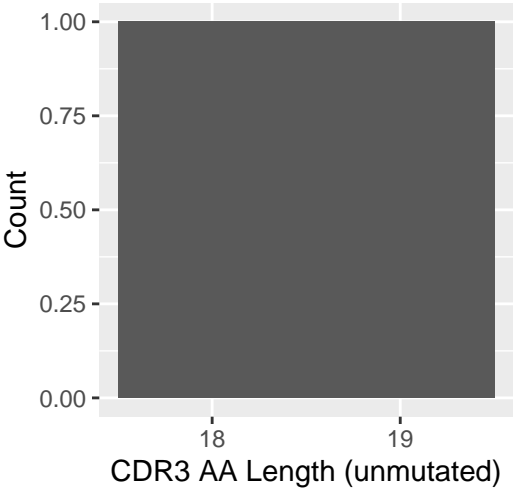
3822 sequences assigned  
3778 (98.8%) exact matches, in which:  
3720 unique CDR3  
13 unique J



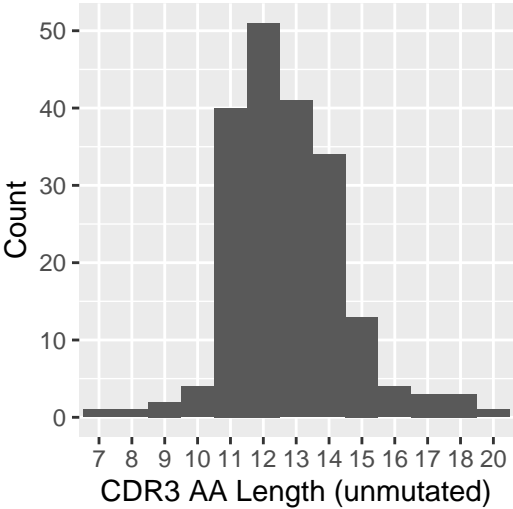
TRBV21-1\*ap01\_T307C

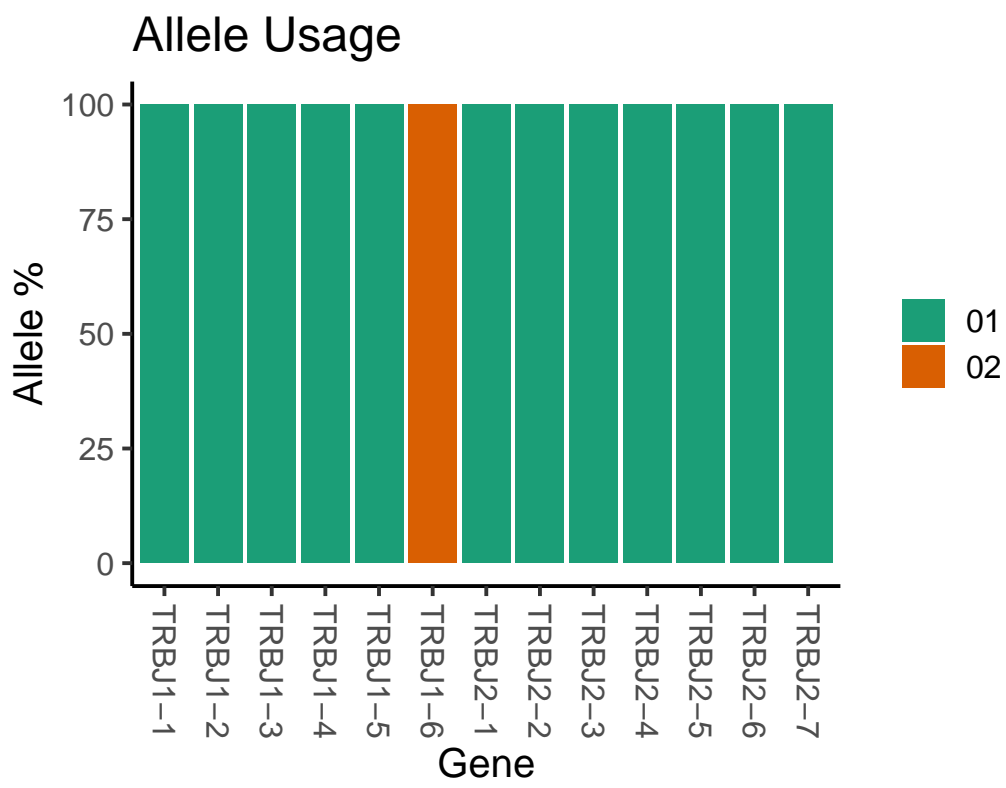


TRBV7-1\*ap01\_T296C\_C314T



TRBV7-7\*ap01\_C315T





[illegible]