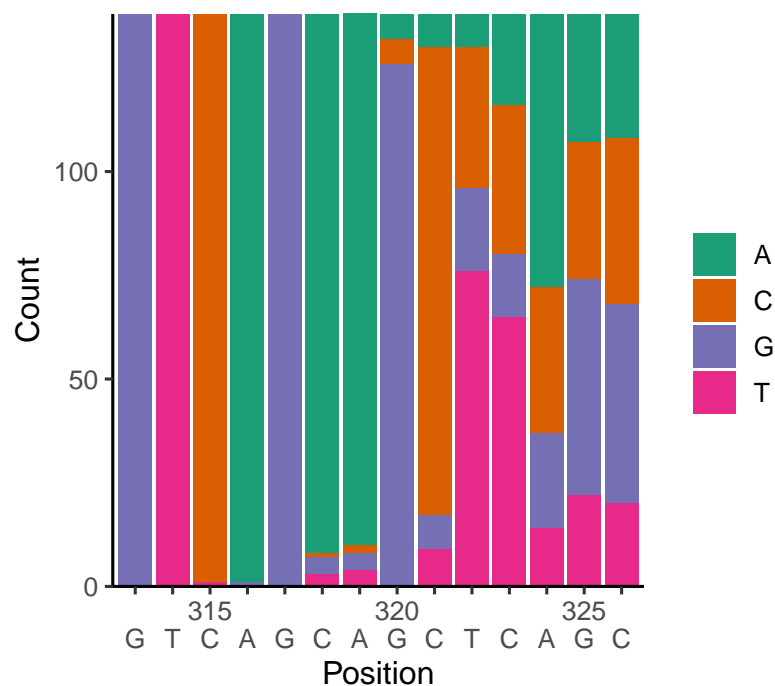
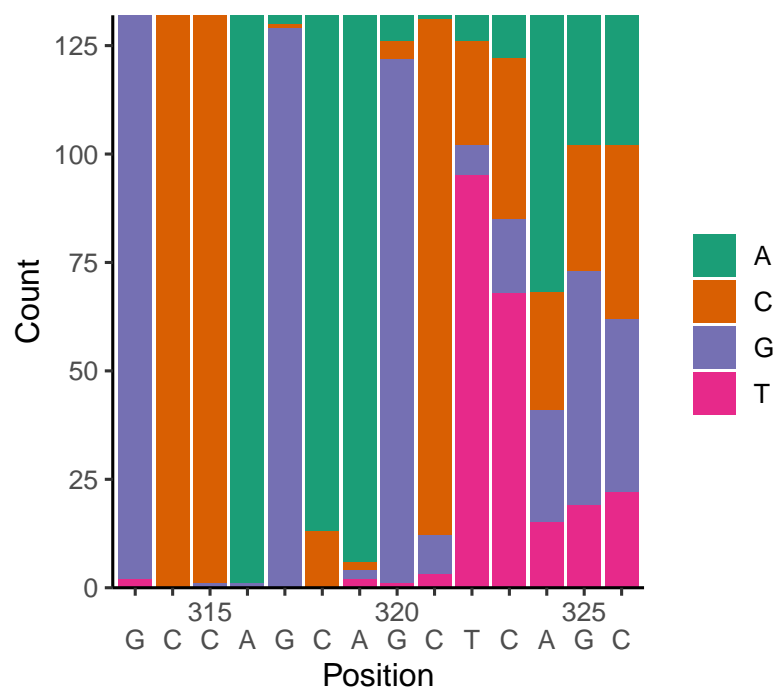


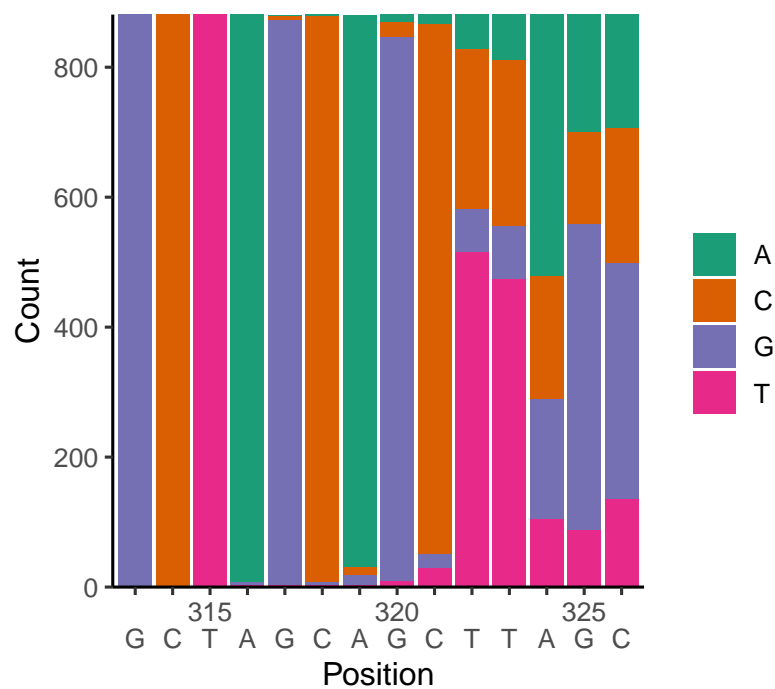
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



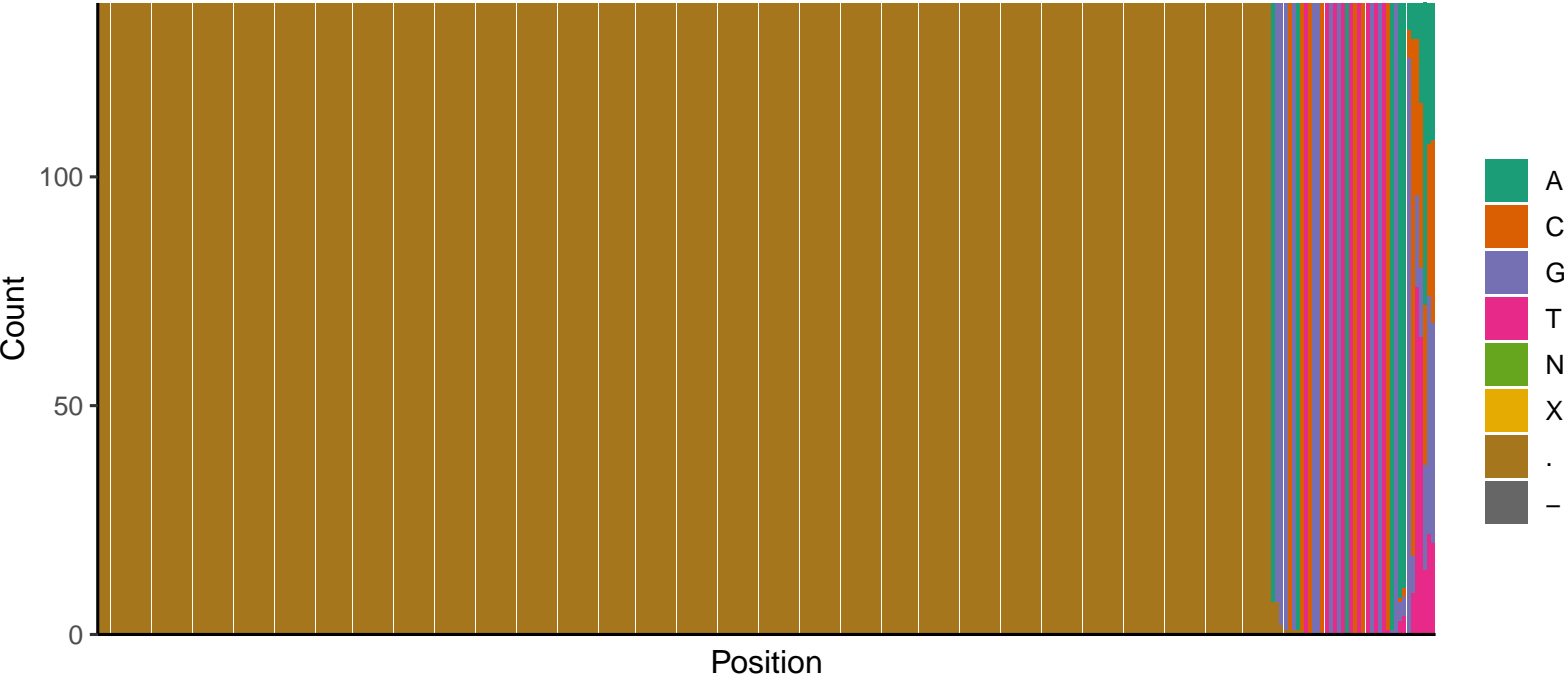
Gene TRBV7-1\*ap01\_G291C\_T296C



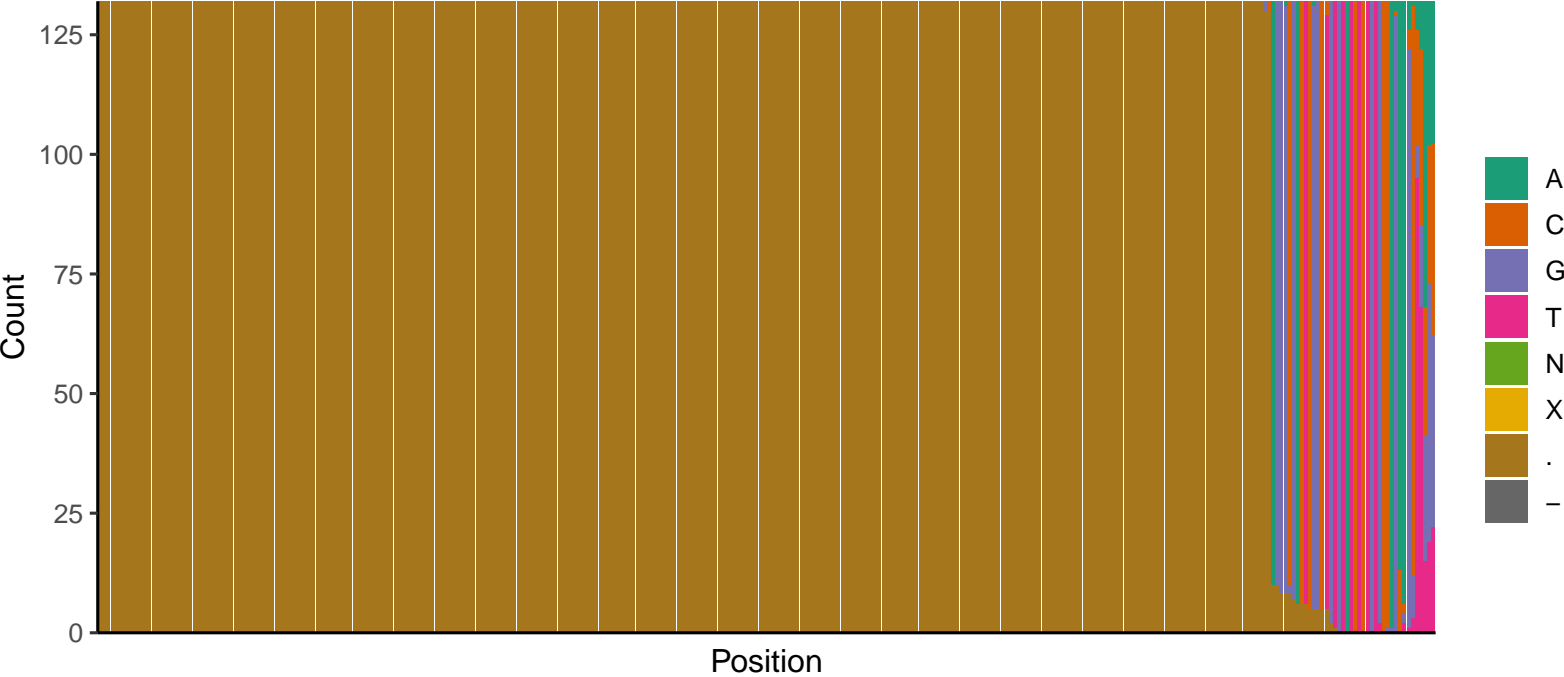
Gene TRBV7-7\*ap01\_C315T



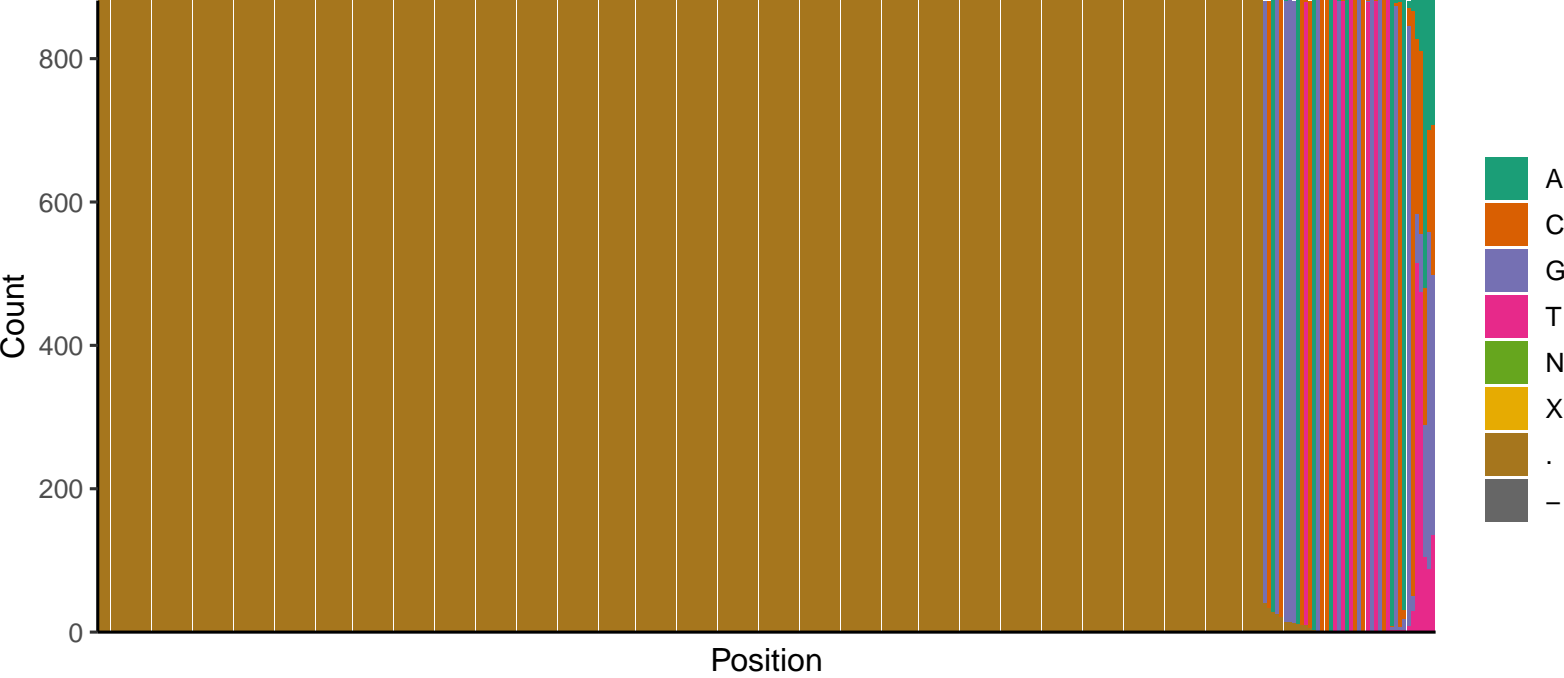
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



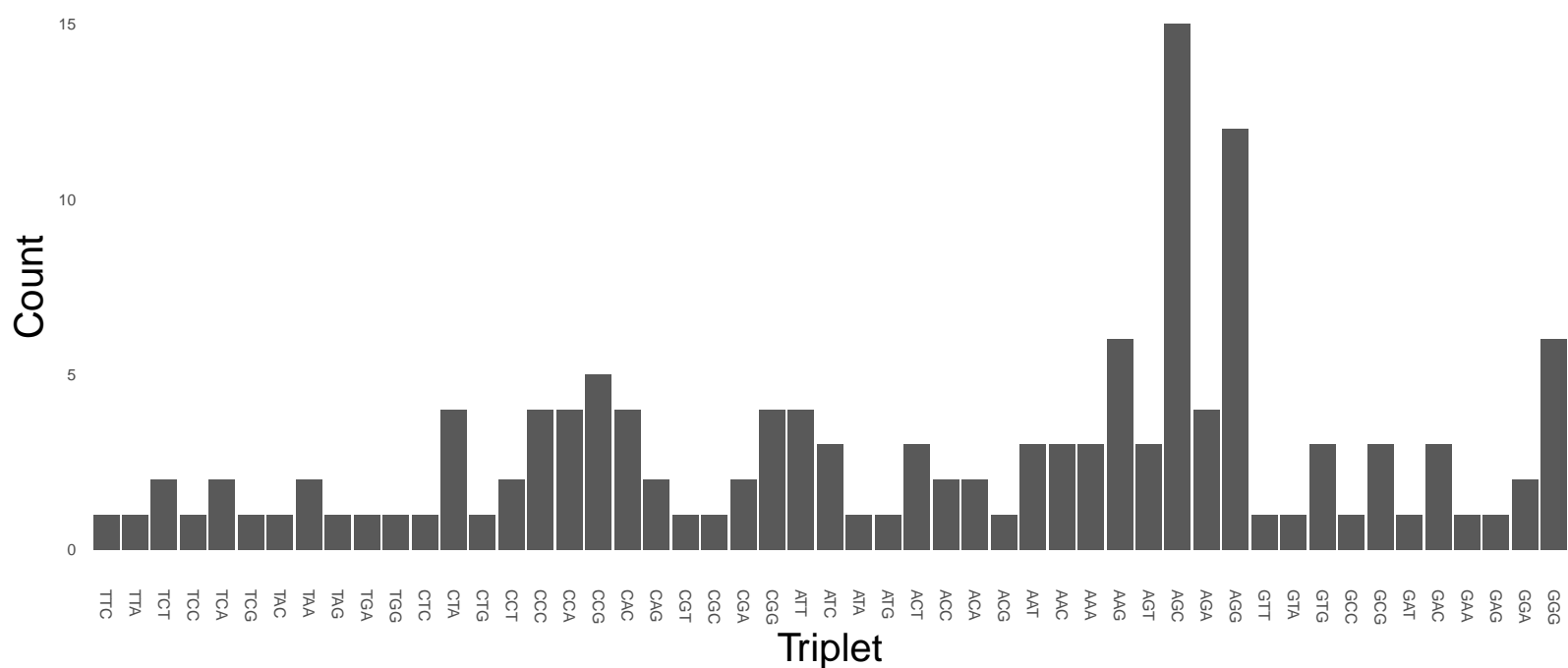
Gene TRBV7-1\*ap01\_G291C\_T296C



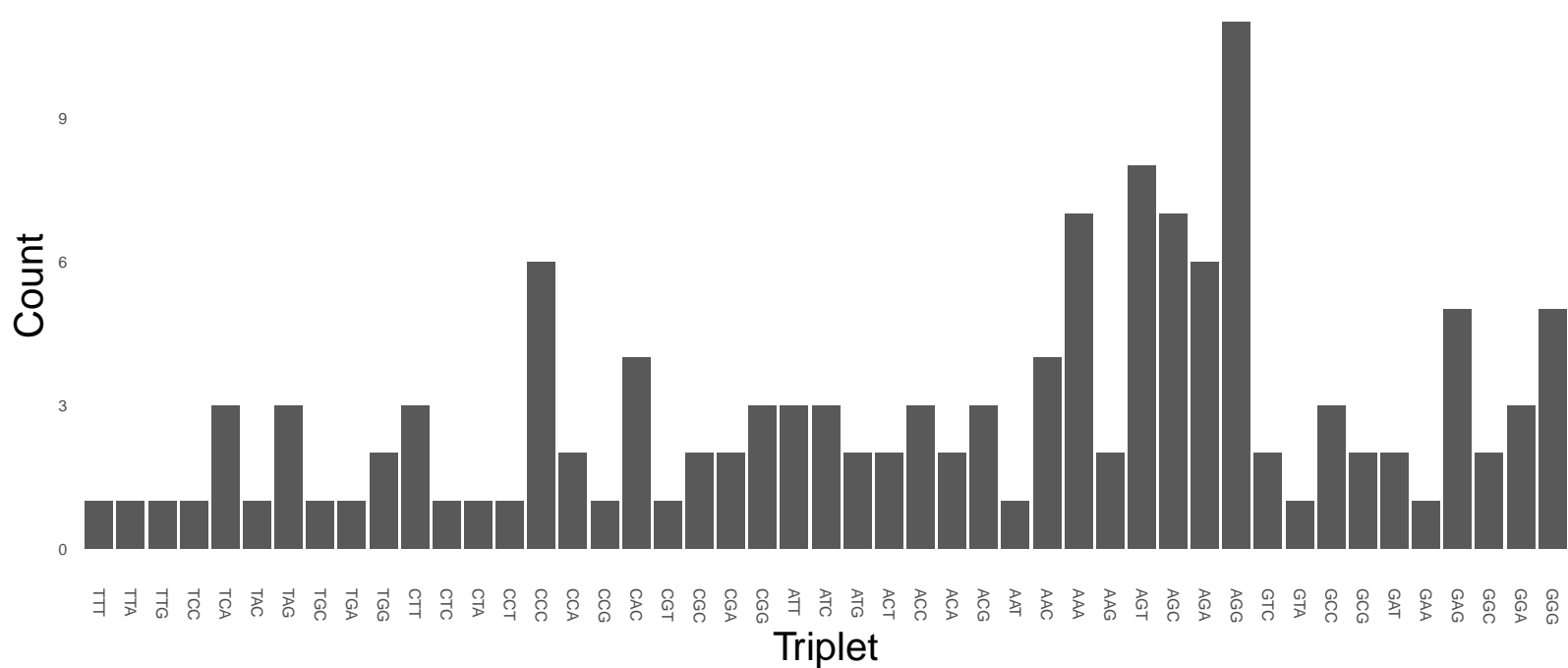
Gene TRBV7-7\*ap01\_C315T



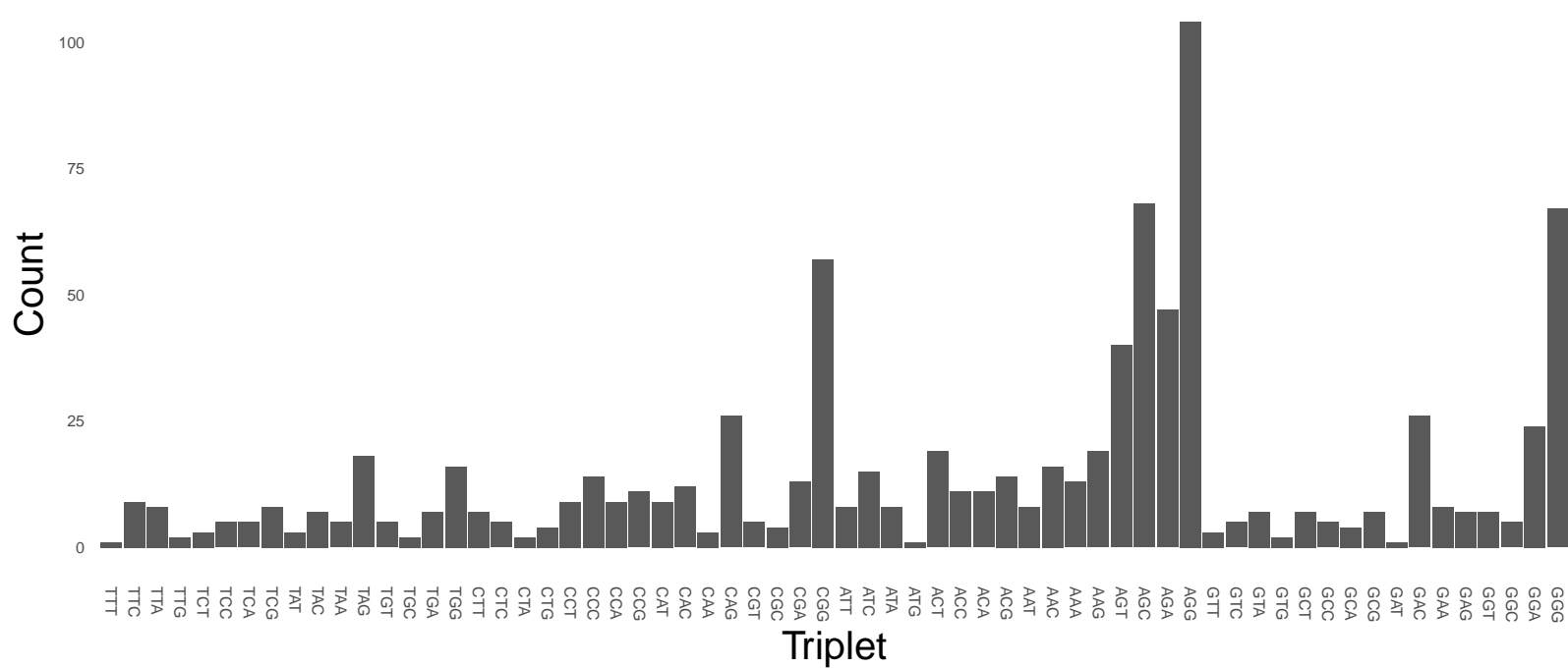
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

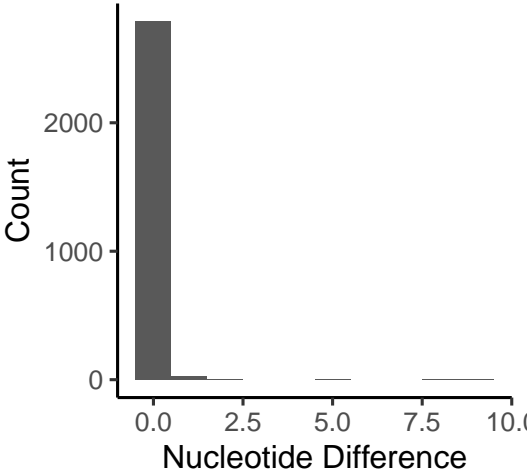


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



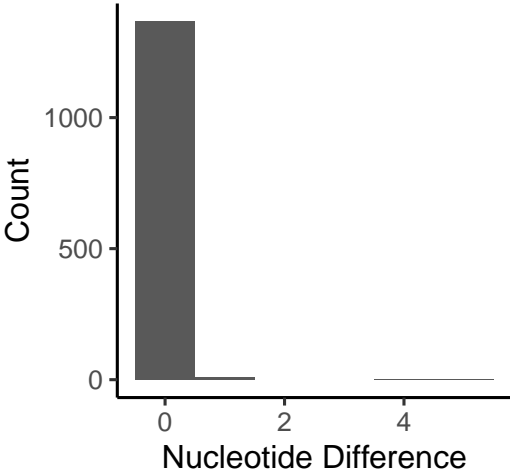
TRBV10-1\*ap01

2818 sequences assigned  
2789 (99%) exact matches, in which:  
2709 unique CDR3  
13 unique J



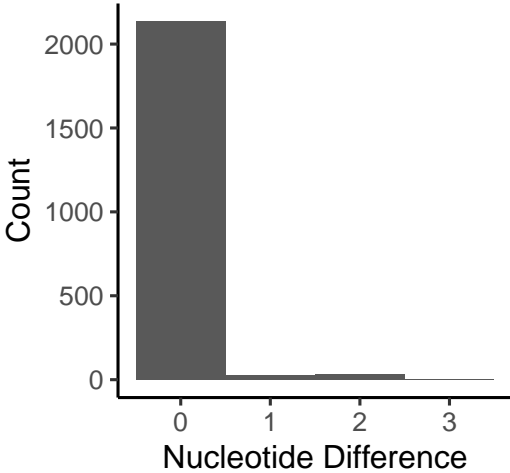
TRBV10-2\*ap01

1380 sequences assigned  
1367 (99.1%) exact matches, in which:  
1319 unique CDR3  
13 unique J



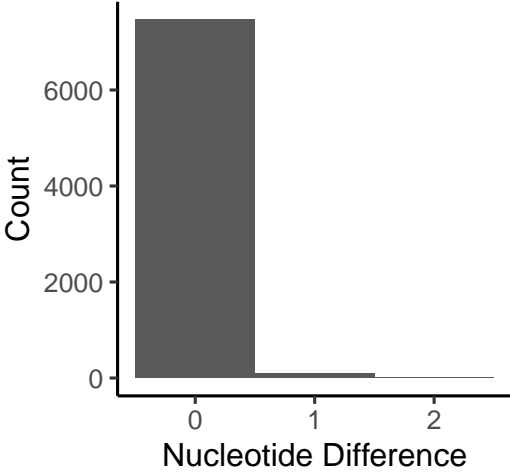
TRBV13\*ap01

2194 sequences assigned  
2135 (97.3%) exact matches, in which:  
2078 unique CDR3  
13 unique J



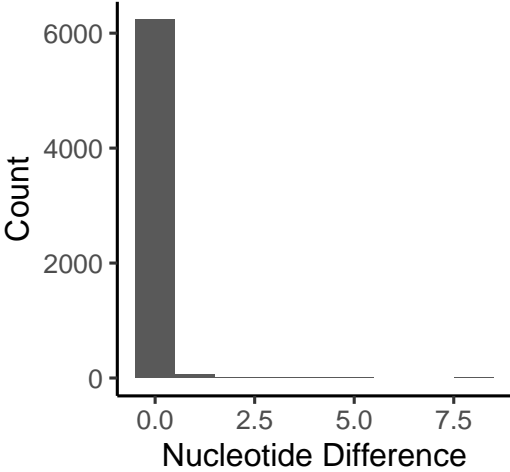
TRBV20-1\*ap01

7549 sequences assigned  
7463 (98.9%) exact matches, in which:  
7288 unique CDR3  
13 unique J



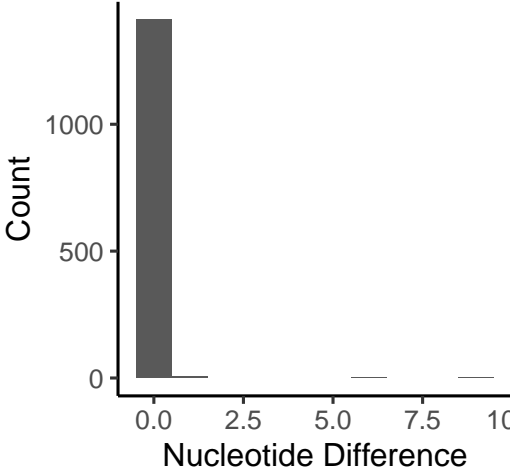
TRBV10-3\*ap01

6303 sequences assigned  
6234 (98.9%) exact matches, in which:  
6064 unique CDR3  
13 unique J



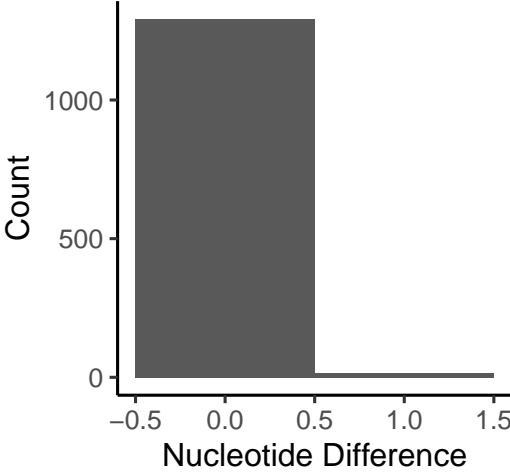
TRBV14\*ap01

1419 sequences assigned  
1412 (99.5%) exact matches, in which:  
1373 unique CDR3  
13 unique J



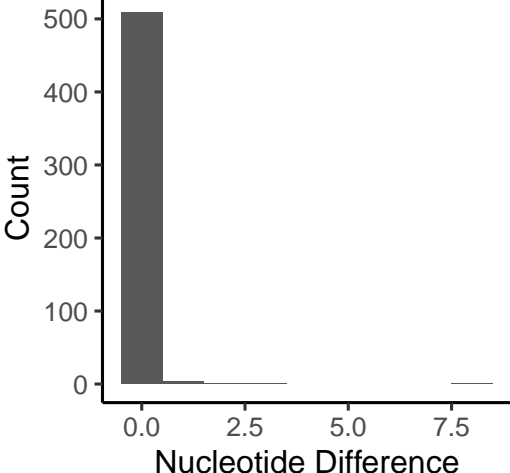
TRBV20-1\*ap02

1307 sequences assigned  
1292 (98.9%) exact matches, in which:  
1267 unique CDR3  
13 unique J



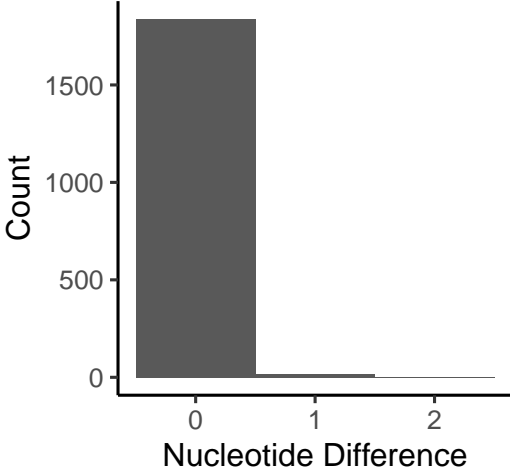
TRBV1\*ap01

516 sequences assigned  
509 (98.6%) exact matches, in which:  
495 unique CDR3  
13 unique J



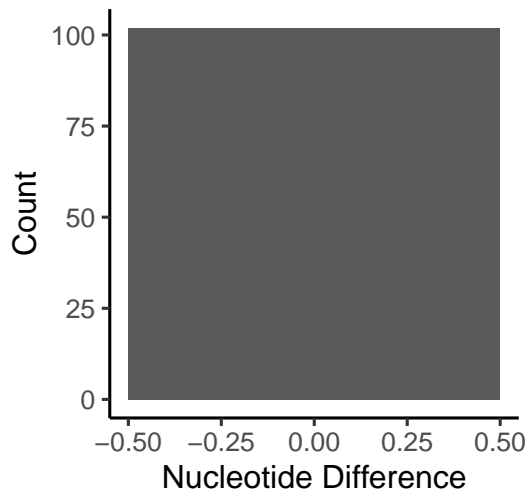
TRBV15\*ap02

1857 sequences assigned  
1838 (99%) exact matches, in which:  
1795 unique CDR3  
13 unique J



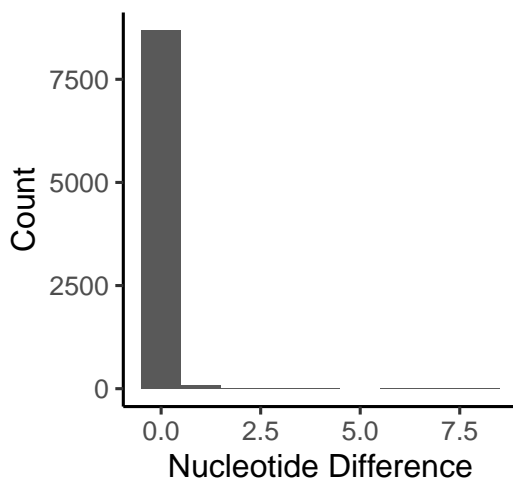
### TRBV16\*ap01

102 sequences assigned  
102 (100%) exact matches, in which:  
101 unique CDR3  
13 unique J



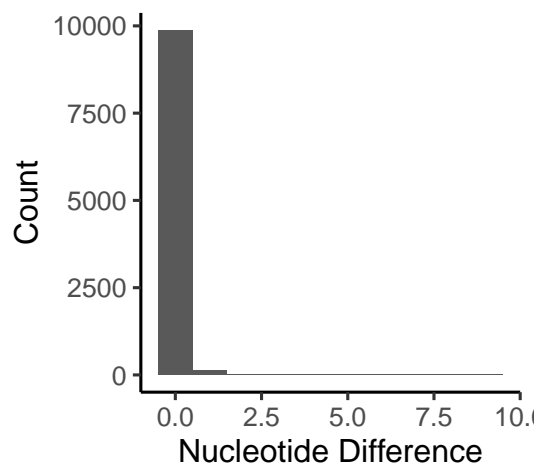
### TRBV19\*ap01

8789 sequences assigned  
8686 (98.8%) exact matches, in which:  
8494 unique CDR3  
13 unique J



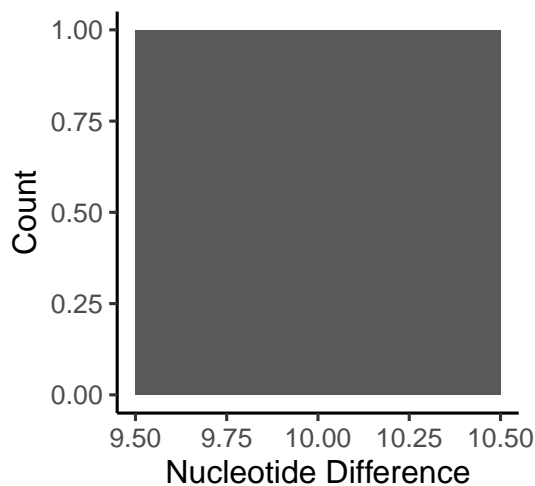
### TRBV27\*ap01

10021 sequences assigned  
9878 (98.6%) exact matches, in which:  
9585 unique CDR3  
13 unique J



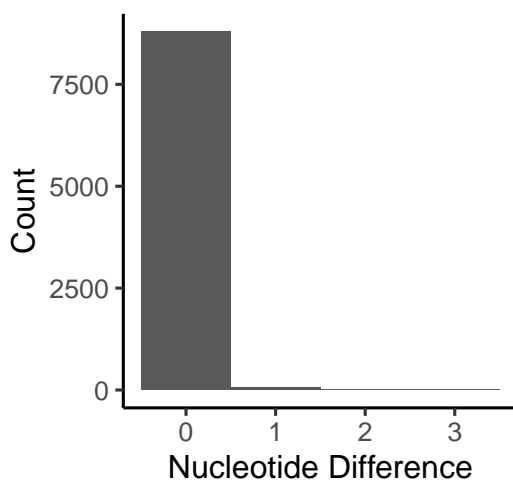
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



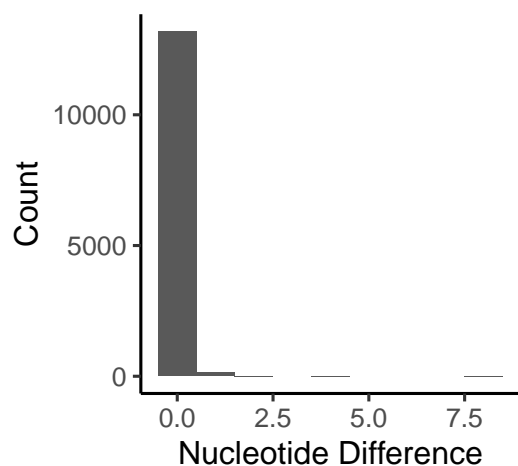
### TRBV2\*ap01

8870 sequences assigned  
8791 (99.1%) exact matches, in which:  
8605 unique CDR3  
13 unique J



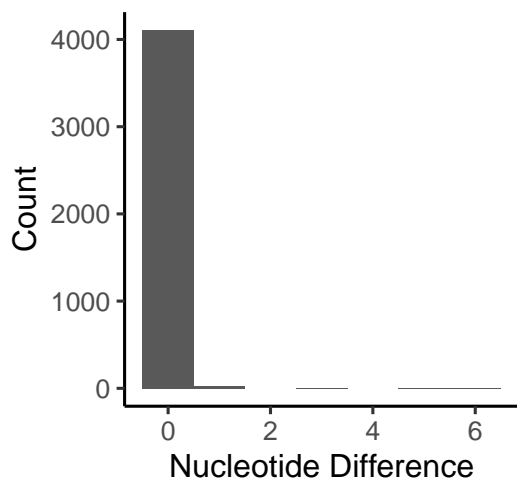
### TRBV28\*ap01

13334 sequences assigned  
13187 (98.9%) exact matches, in which:  
12823 unique CDR3  
13 unique J



### TRBV18\*ap01

4140 sequences assigned  
4108 (99.2%) exact matches, in which:  
4005 unique CDR3  
13 unique J



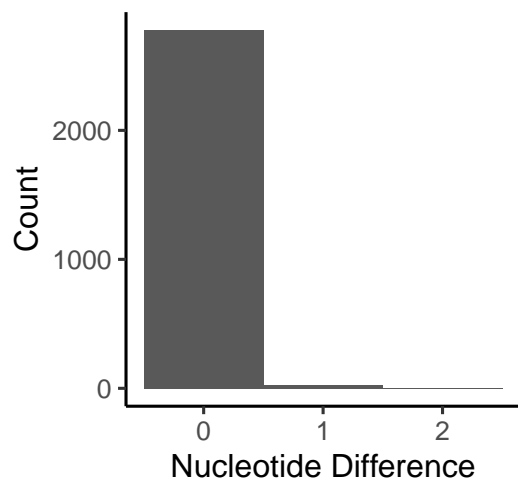
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



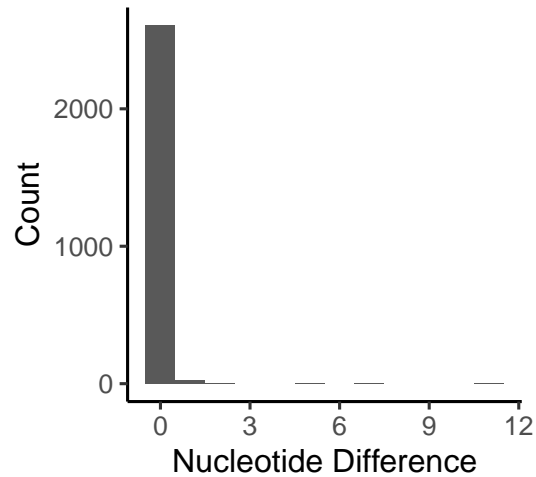
### TRBV30\*ap01

2807 sequences assigned  
2778 (99%) exact matches, in which:  
2743 unique CDR3  
13 unique J



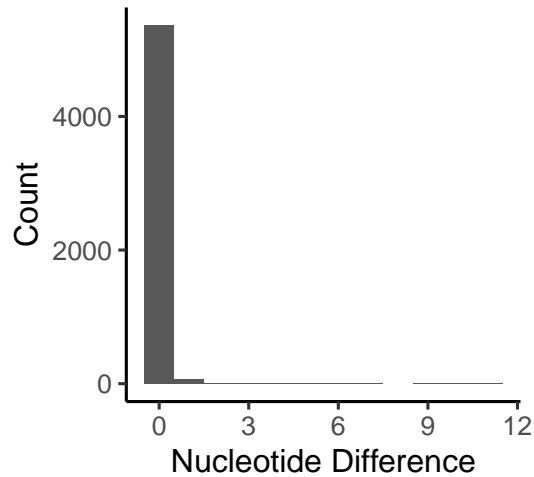
### TRBV30\*ap02

2640 sequences assigned  
2607 (98.8%) exact matches, in which:  
2589 unique CDR3  
13 unique J



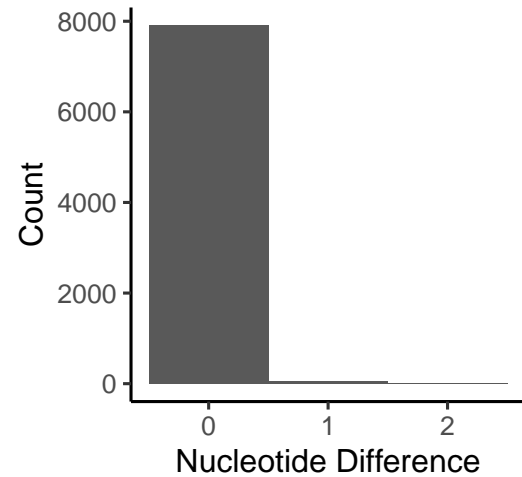
### TRBV21-1\*ap01

5453 sequences assigned  
5362 (98.3%) exact matches, in which:  
5218 unique CDR3  
13 unique J



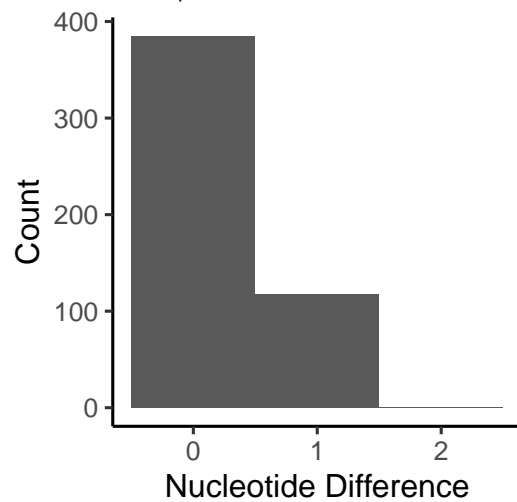
### TRBV11-3\*ap01

7971 sequences assigned  
7908 (99.2%) exact matches, in which:  
7732 unique CDR3  
13 unique J



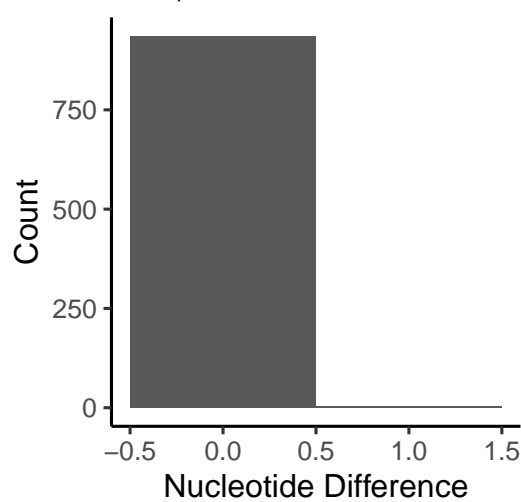
### TRBV30\*ap03

504 sequences assigned  
385 (76.4%) exact matches, in which:  
382 unique CDR3  
13 unique J



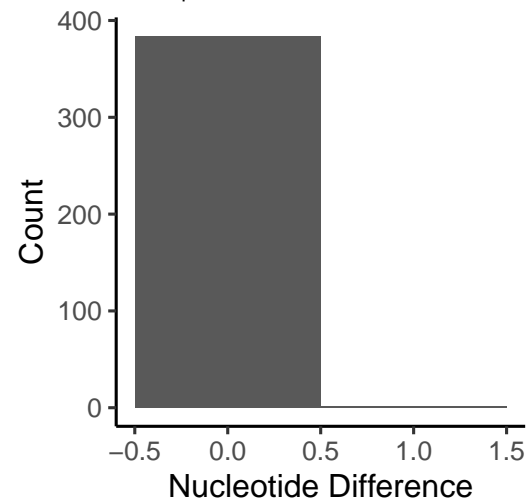
### TRBV11-1\*ap01

940 sequences assigned  
936 (99.6%) exact matches, in which:  
916 unique CDR3  
13 unique J



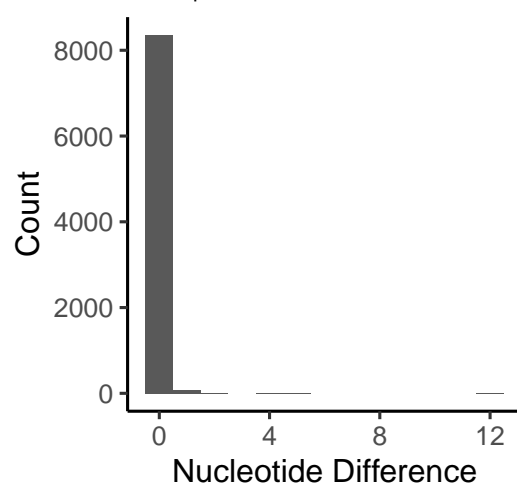
### TRBV12-1\*ap01

386 sequences assigned  
384 (99.5%) exact matches, in which:  
373 unique CDR3  
13 unique J



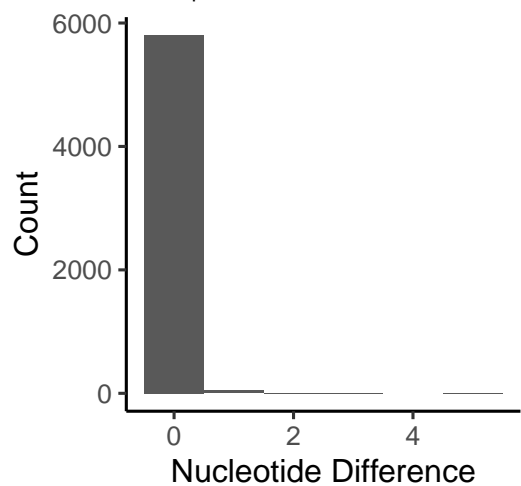
### TRBV9\*ap01

8435 sequences assigned  
8355 (99.1%) exact matches, in which:  
8168 unique CDR3  
13 unique J



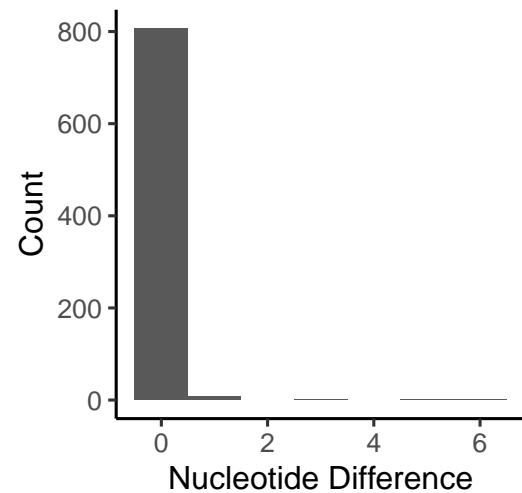
### TRBV11-2\*ap01

5851 sequences assigned  
5805 (99.2%) exact matches, in which:  
5656 unique CDR3  
13 unique J



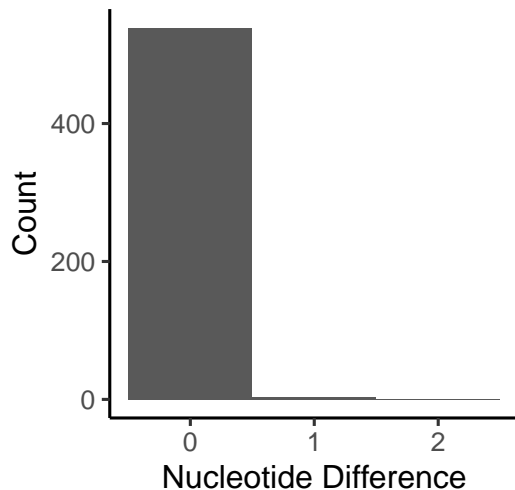
### TRBV12-2\*ap01

819 sequences assigned  
807 (98.5%) exact matches, in which:  
785 unique CDR3  
13 unique J



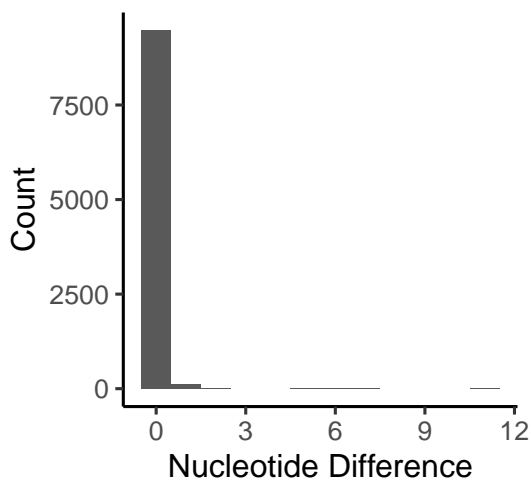
### TRBV12-5\*ap01

543 sequences assigned  
539 (99.3%) exact matches, in which:  
525 unique CDR3  
13 unique J



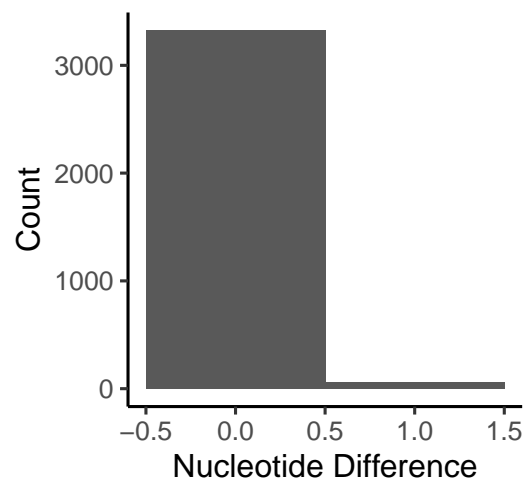
### TRBV3-12\*ap01

9605 sequences assigned  
9472 (98.6%) exact matches, in which:  
9201 unique CDR3  
13 unique J



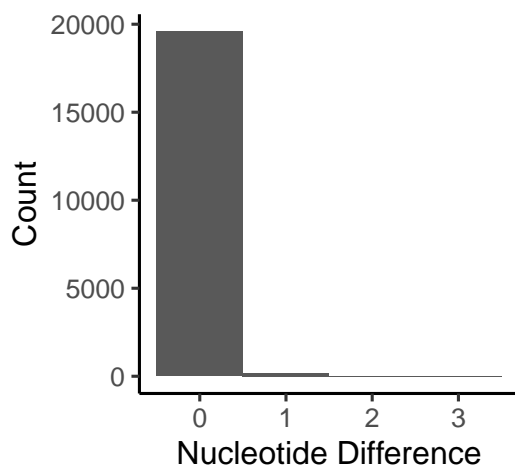
### TRBV4-2\*ap01

3386 sequences assigned  
3324 (98.2%) exact matches, in which:  
3250 unique CDR3  
13 unique J



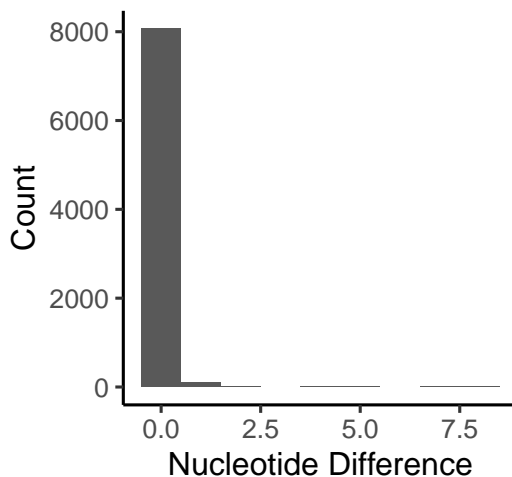
### TRBV12-34\*ap01

19782 sequences assigned  
19588 (99%) exact matches, in which:  
19139 unique CDR3  
13 unique J



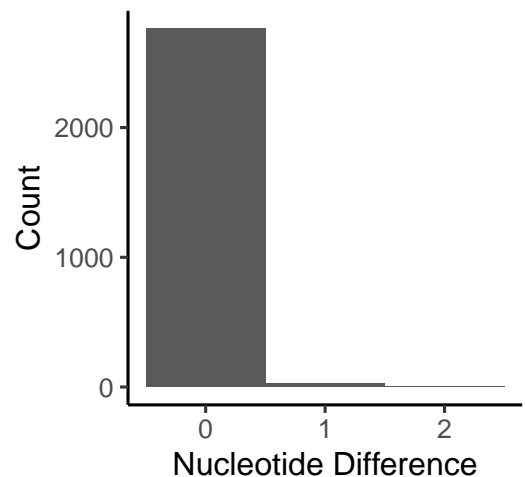
### TRBV24-1\*ap01

8174 sequences assigned  
8067 (98.7%) exact matches, in which:  
7948 unique CDR3  
13 unique J



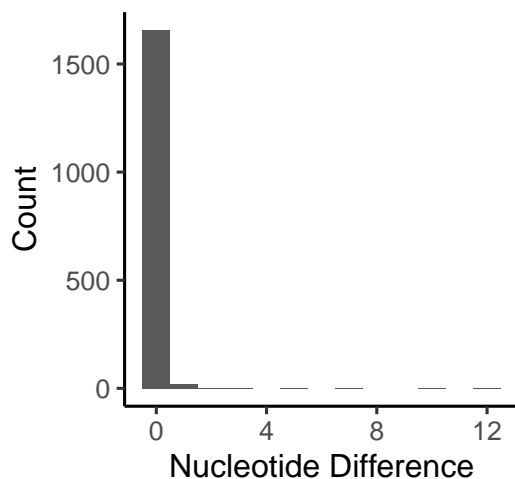
### TRBV4-3\*ap01

2788 sequences assigned  
2762 (99.1%) exact matches, in which:  
2719 unique CDR3  
13 unique J



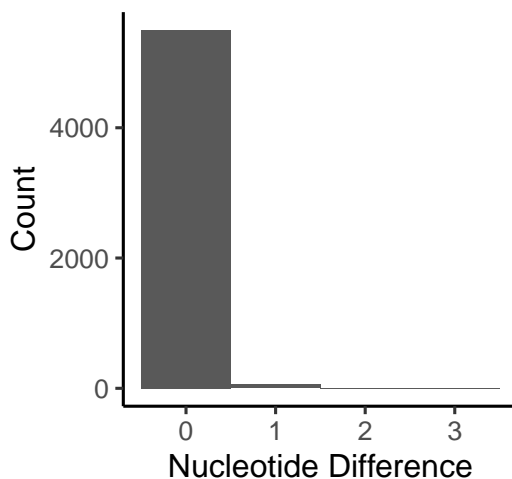
### TRBV23-1\*ap01

1684 sequences assigned  
1657 (98.4%) exact matches, in which:  
1612 unique CDR3  
13 unique J



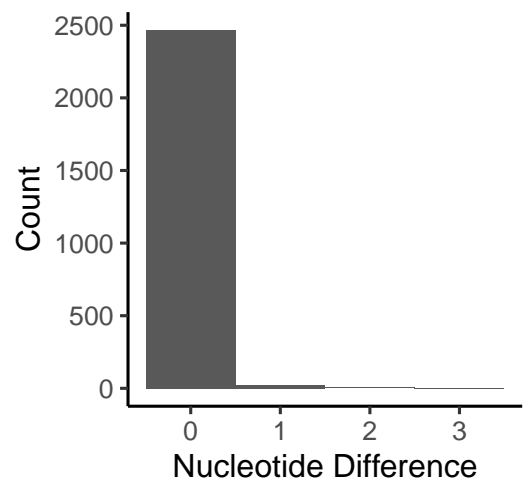
### TRBV4-1\*ap01

5558 sequences assigned  
5500 (99%) exact matches, in which:  
5376 unique CDR3  
13 unique J



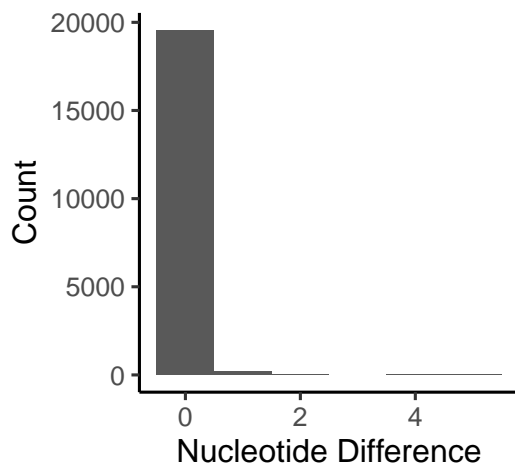
### TRBV25-1\*ap01

2497 sequences assigned  
2467 (98.8%) exact matches, in which:  
2411 unique CDR3  
13 unique J



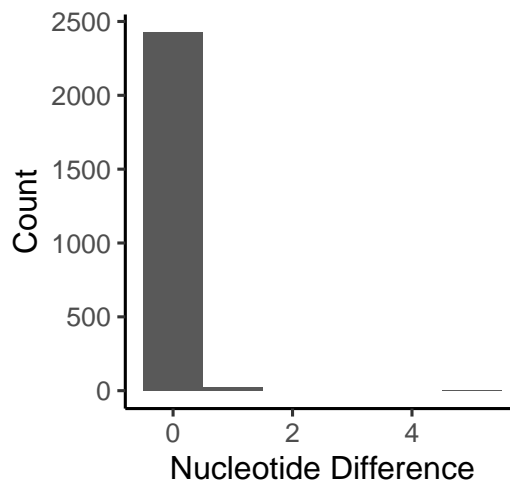
### TRBV5-1\*ap01

19759 sequences assigned  
19557 (99%) exact matches, in which:  
19069 unique CDR3  
13 unique J



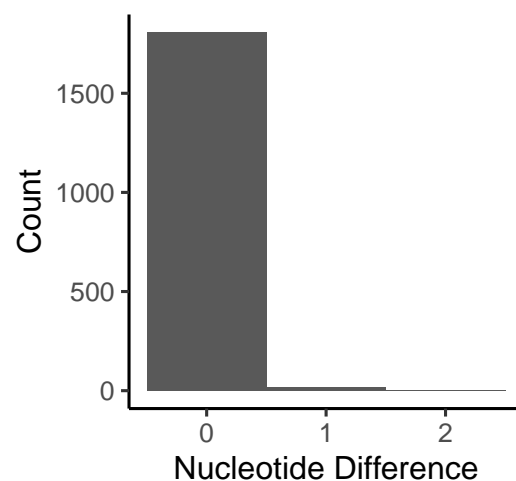
### TRBV5-5\*ap01

2448 sequences assigned  
2426 (99.1%) exact matches, in which:  
2387 unique CDR3  
13 unique J



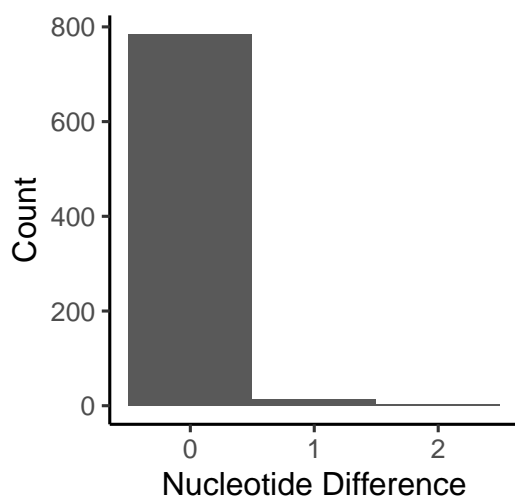
### TRBV5-8\*ap01

1830 sequences assigned  
1807 (98.7%) exact matches, in which:  
1752 unique CDR3  
13 unique J



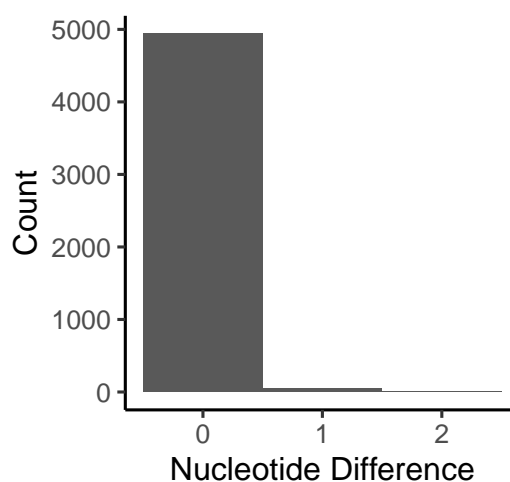
### TRBV5-3\*ap01

801 sequences assigned  
785 (98%) exact matches, in which:  
765 unique CDR3  
13 unique J



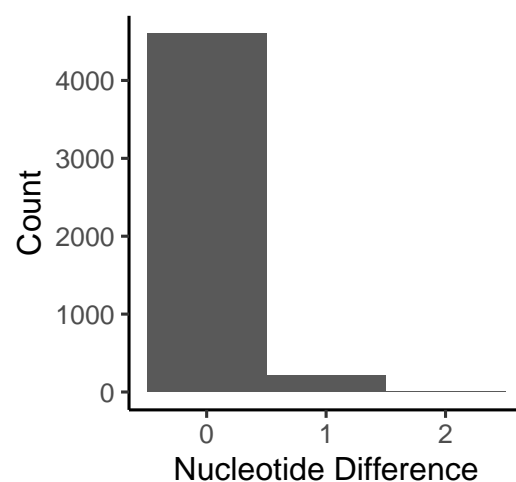
### TRBV5-6\*ap01

4993 sequences assigned  
4940 (98.9%) exact matches, in which:  
4805 unique CDR3  
13 unique J



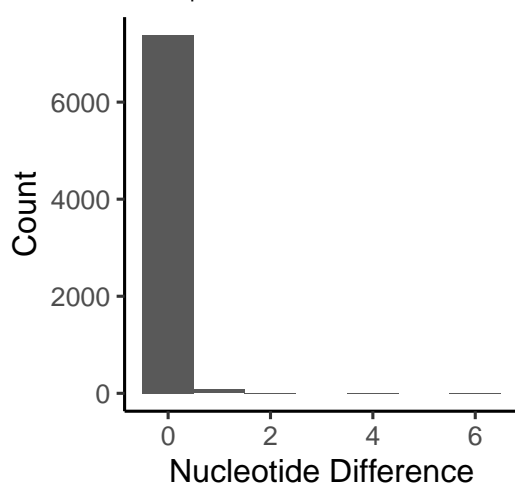
### TRBV6-1\*ap01

4807 sequences assigned  
4600 (95.7%) exact matches, in which:  
4483 unique CDR3  
13 unique J



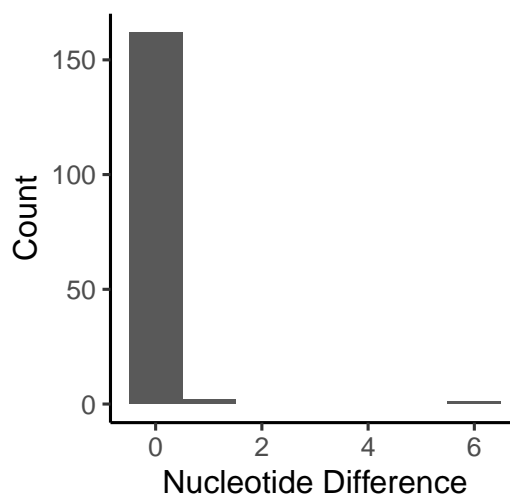
### TRBV5-4\*ap01

7470 sequences assigned  
7382 (98.8%) exact matches, in which:  
7189 unique CDR3  
13 unique J



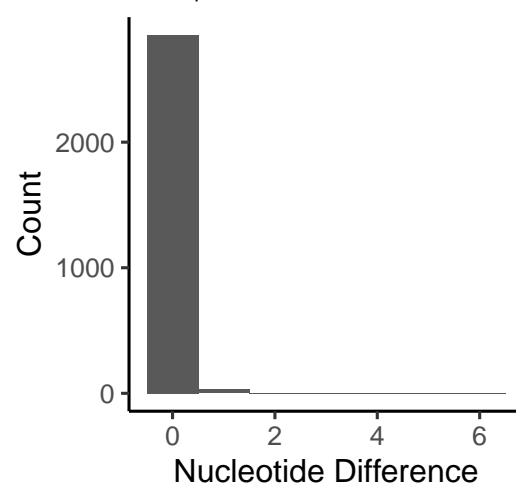
### TRBV5-7\*ap01

165 sequences assigned  
162 (98.2%) exact matches, in which:  
160 unique CDR3  
13 unique J



### TRBV6-4\*ap01

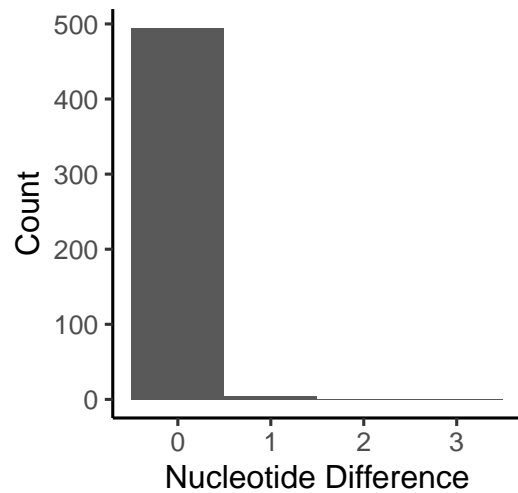
2892 sequences assigned  
2853 (98.7%) exact matches, in which:  
2768 unique CDR3  
13 unique J





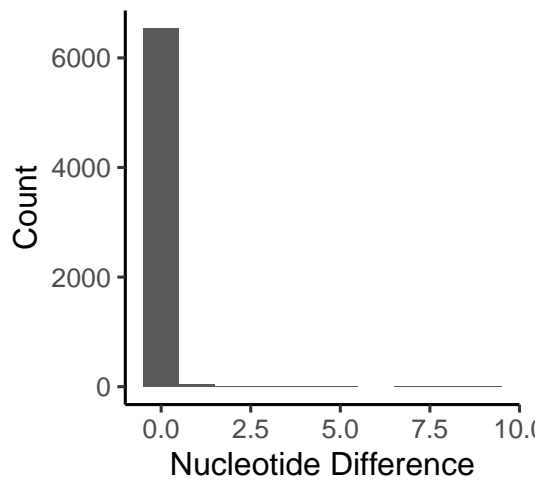
### TRBV6-7\*ap01

502 sequences assigned  
495 (98.6%) exact matches, in which:  
486 unique CDR3  
13 unique J



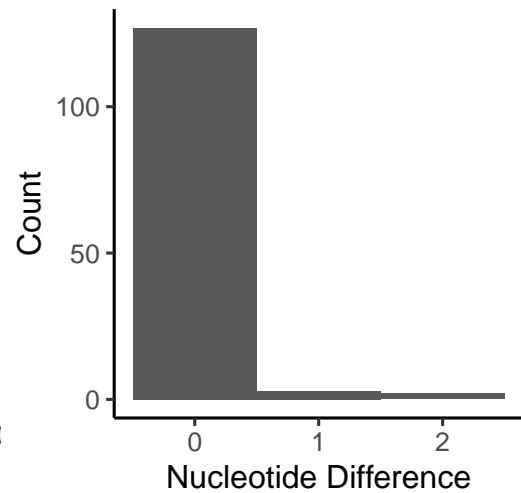
### TRBV6-23\*ap01

6594 sequences assigned  
6538 (99.2%) exact matches, in which:  
6402 unique CDR3  
13 unique J



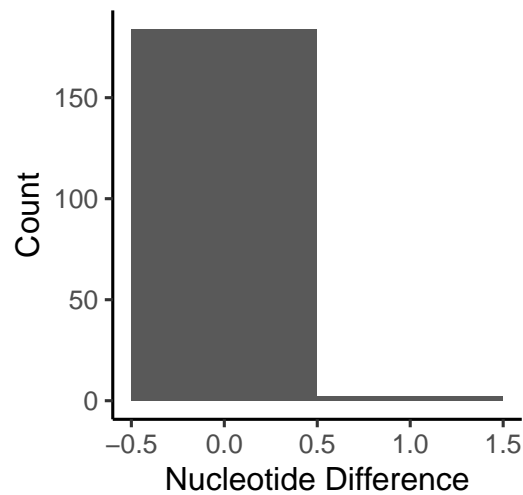
### TRBV7-1\*ap01\_G291C\_1

132 sequences assigned  
127 (96.2%) exact matches, in which:  
126 unique CDR3  
13 unique J



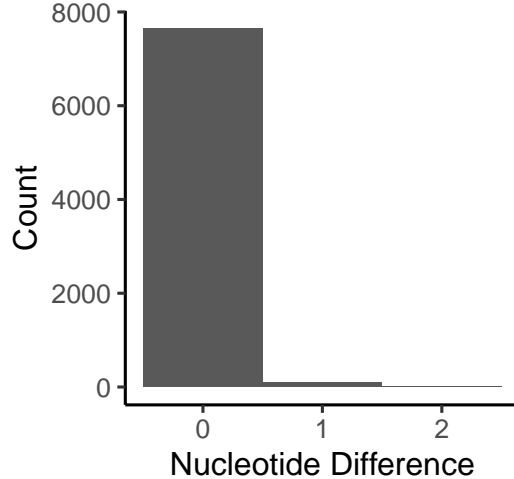
### TRBV6-8\*ap01

186 sequences assigned  
184 (98.9%) exact matches, in which:  
179 unique CDR3  
12 unique J



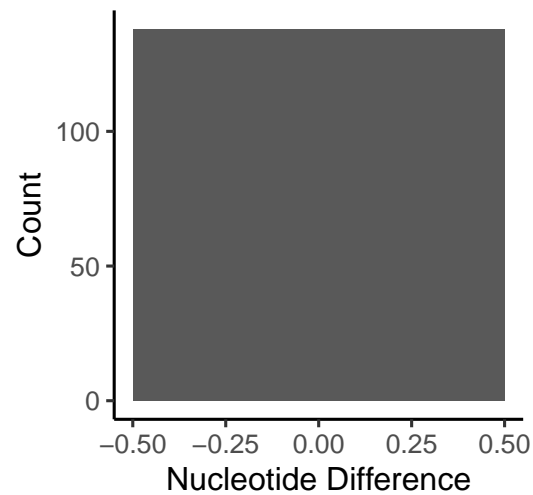
### TRBV6-56\*ap01

7734 sequences assigned  
7642 (98.8%) exact matches, in which:  
7451 unique CDR3  
13 unique J



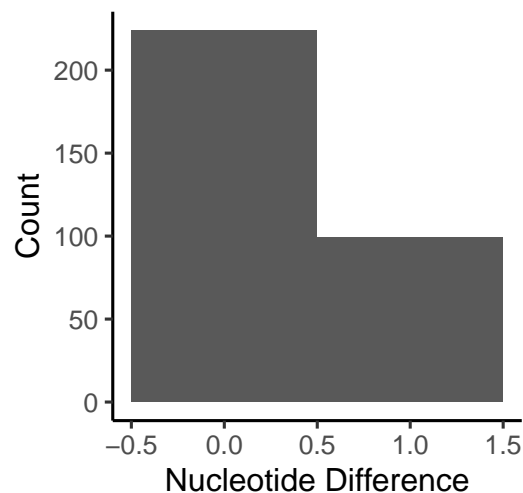
### TRBV7-1\*ap01\_G291C\_1

138 sequences assigned  
138 (100%) exact matches, in which:  
132 unique CDR3  
13 unique J



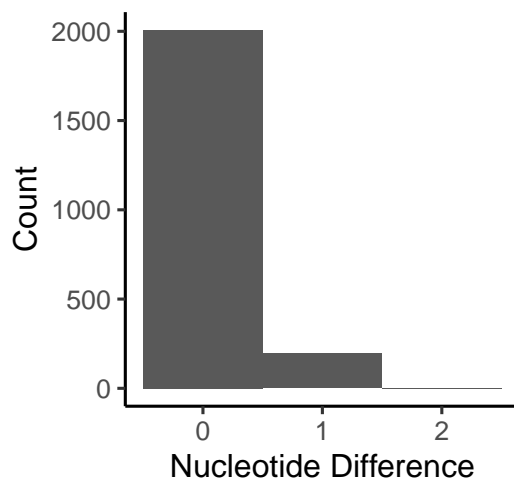
### TRBV6-9\*ap01

323 sequences assigned  
224 (69.3%) exact matches, in which:  
213 unique CDR3  
13 unique J



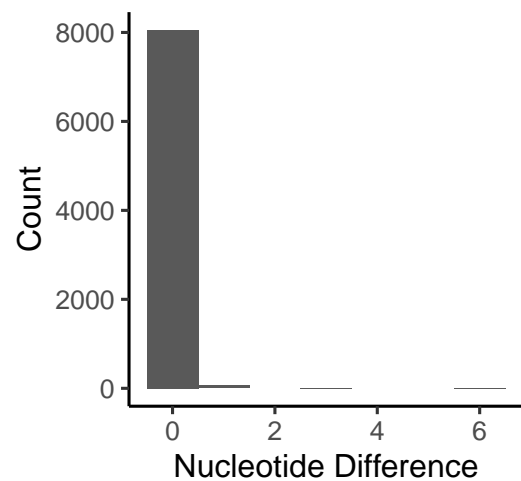
### TRBV6-56\*ap02

2204 sequences assigned  
2007 (91.1%) exact matches, in which:  
1956 unique CDR3  
13 unique J



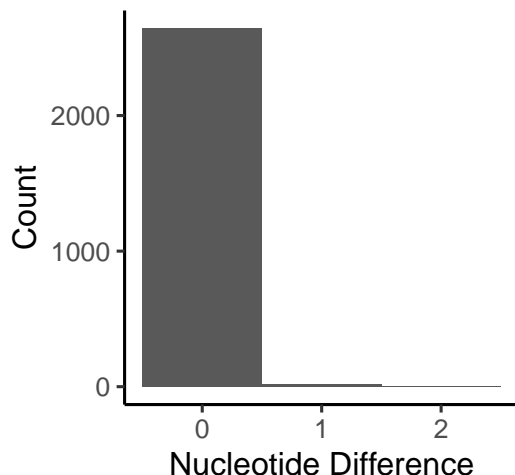
### TRBV7-2\*ap01

8119 sequences assigned  
8054 (99.2%) exact matches, in which:  
7827 unique CDR3  
13 unique J



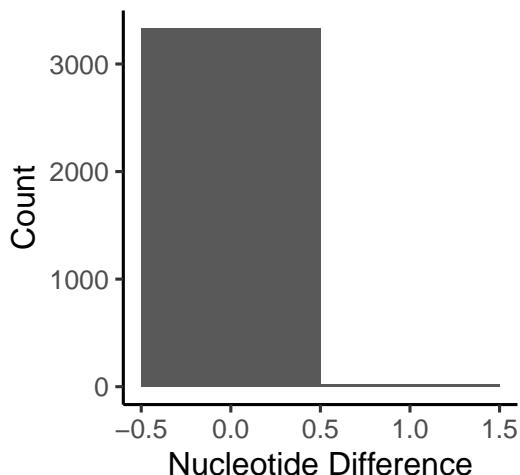
### TRBV7-3\*ap01

2661 sequences assigned  
2643 (99.3%) exact matches, in which:  
2582 unique CDR3  
13 unique J



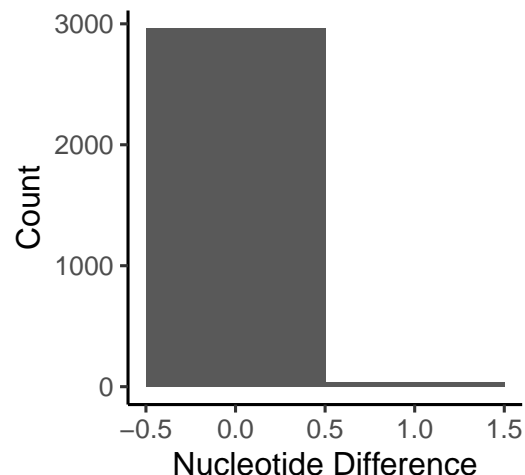
### TRBV7-6\*ap01

3358 sequences assigned  
3331 (99.2%) exact matches, in which:  
3244 unique CDR3  
13 unique J



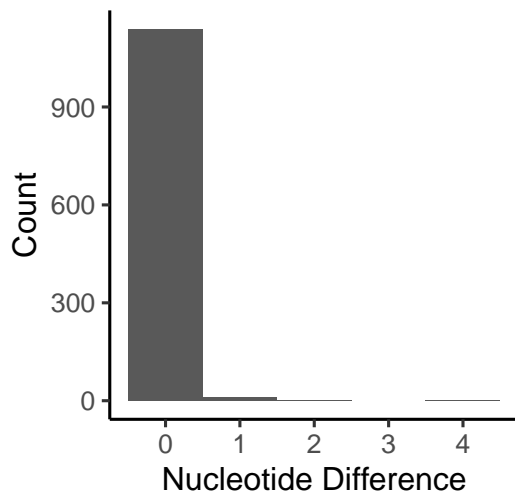
### TRBV7-8\*ap01

2997 sequences assigned  
2962 (98.8%) exact matches, in which:  
2881 unique CDR3  
13 unique J



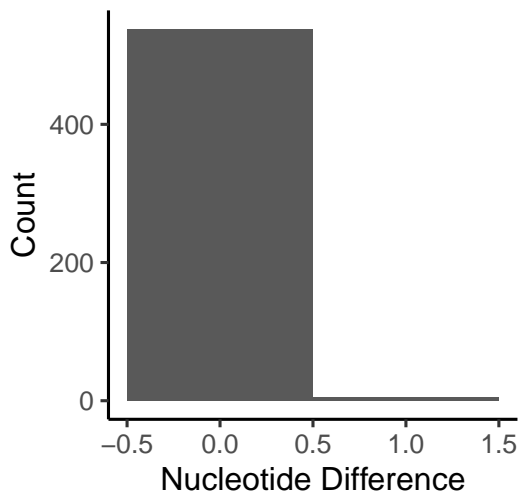
### TRBV7-3\*ap03

1151 sequences assigned  
1139 (99%) exact matches, in which:  
1102 unique CDR3  
13 unique J



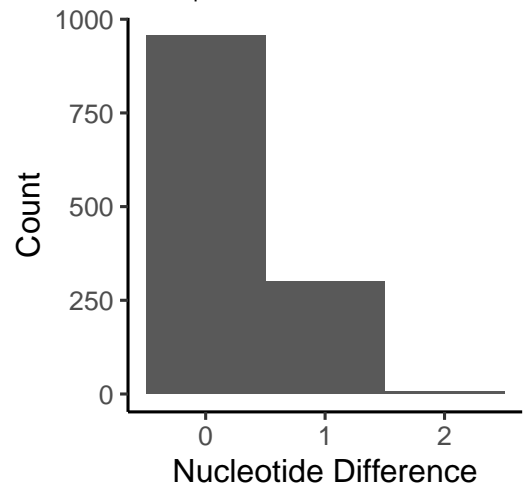
### TRBV7-7\*ap01

543 sequences assigned  
538 (99.1%) exact matches, in which:  
529 unique CDR3  
13 unique J



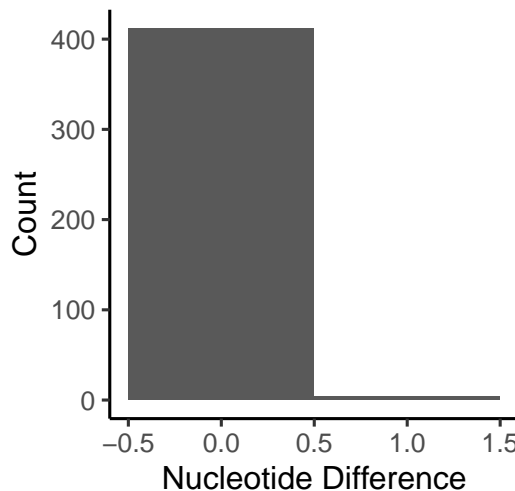
### TRBV7-8\*ap03

1262 sequences assigned  
956 (75.8%) exact matches, in which:  
935 unique CDR3  
14 unique J



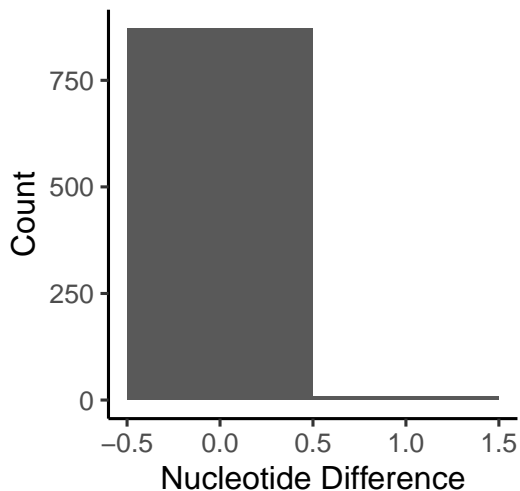
### TRBV7-4\*ap01

416 sequences assigned  
412 (99%) exact matches, in which:  
398 unique CDR3  
13 unique J



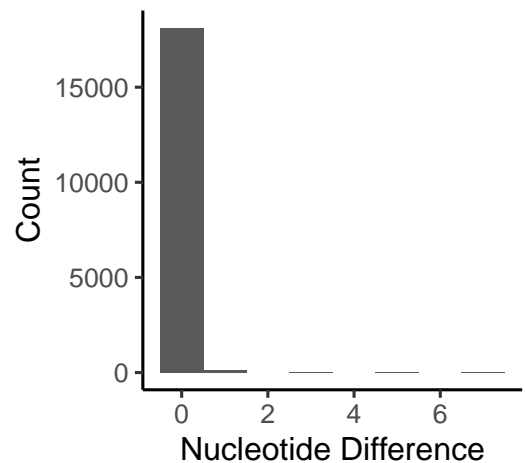
### TRBV7-7\*ap01\_C315T

881 sequences assigned  
872 (99%) exact matches, in which:  
849 unique CDR3  
13 unique J



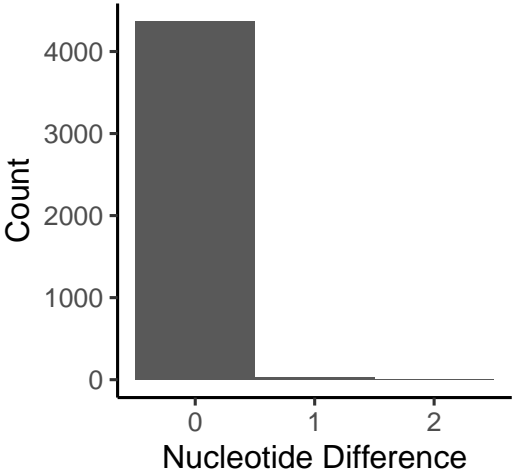
### TRBV7-9\*ap01

18267 sequences assigned  
18121 (99.2%) exact matches, in which:  
17772 unique CDR3  
13 unique J



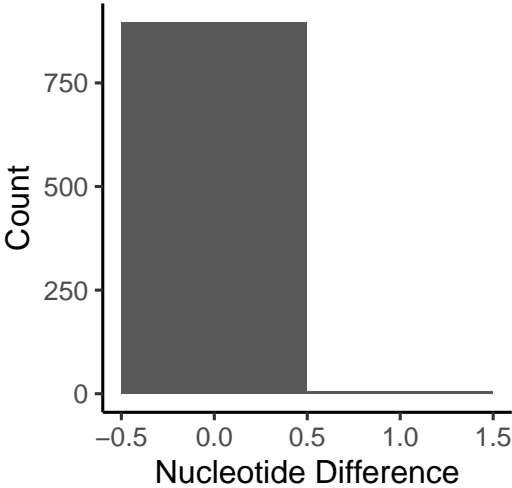
# TRBV29-1\*ap01

4404 sequences assigned  
4367 (99.2%) exact matches, in which:  
4294 unique CDR3  
13 unique J

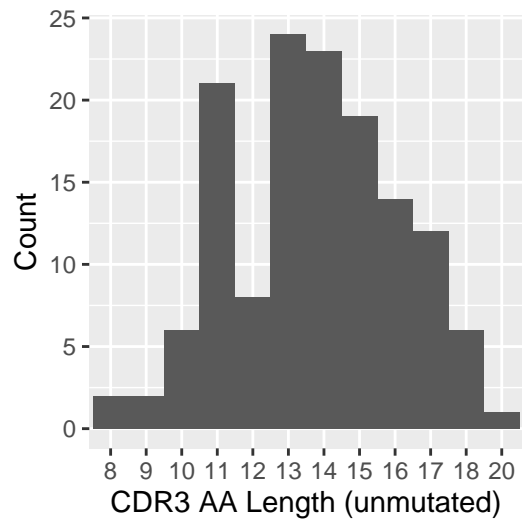


# TRBV29-1\*ap02

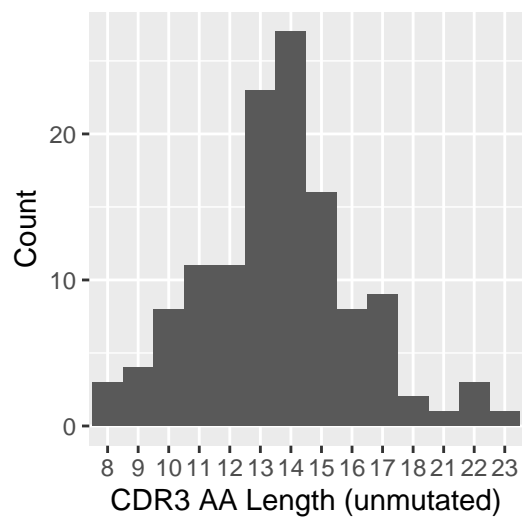
902 sequences assigned  
897 (99.4%) exact matches, in which:  
882 unique CDR3  
13 unique J



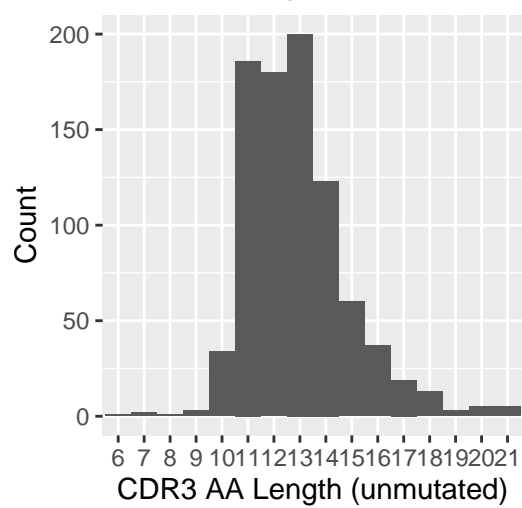
TRBV7-1\*ap01\_G291C\_T296C\_C314T

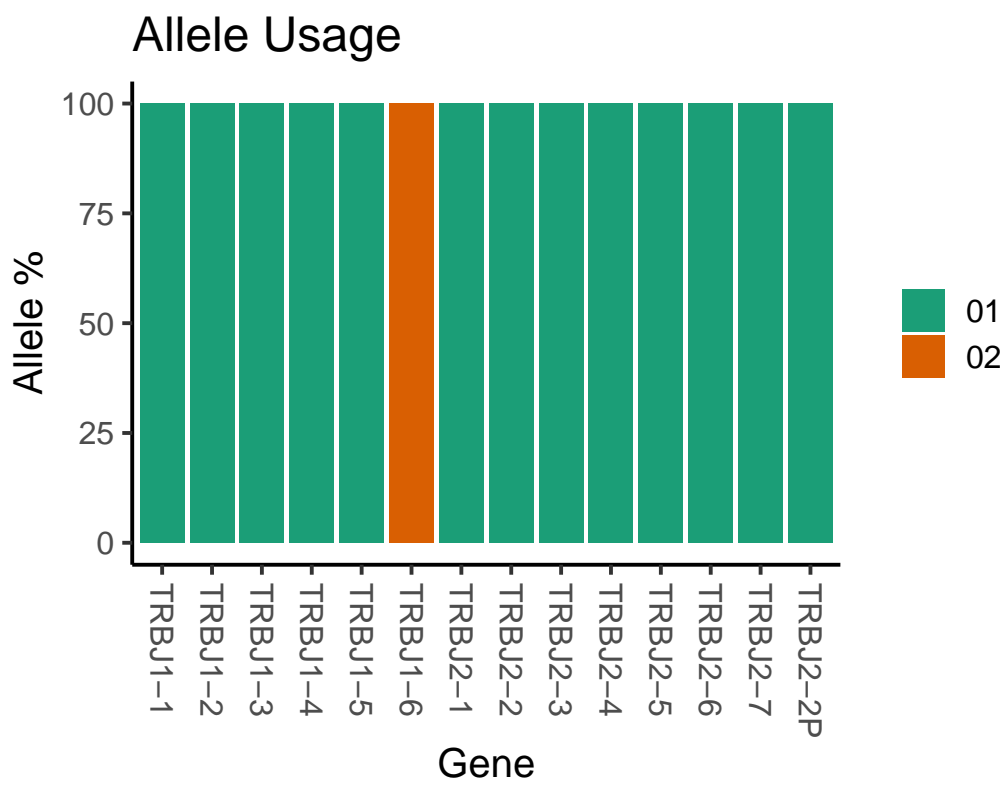


TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]