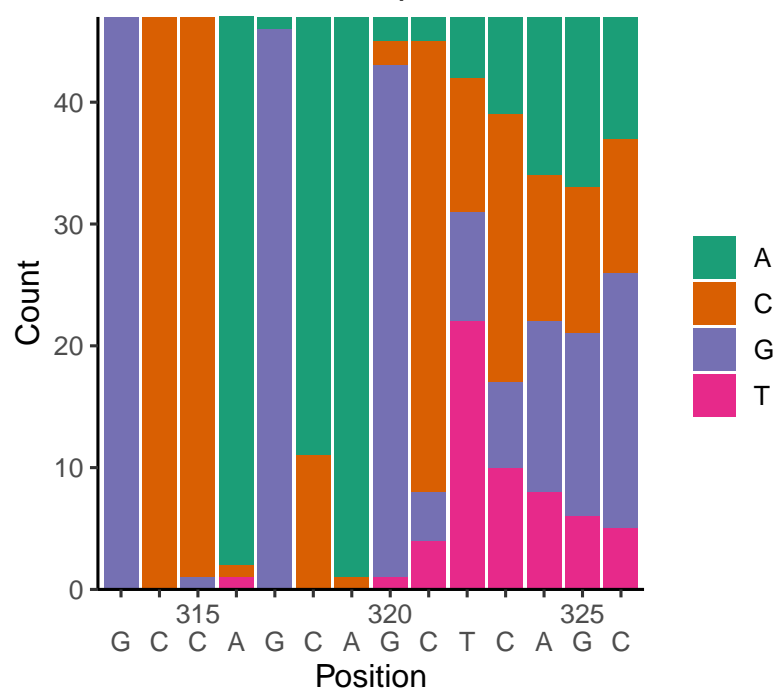
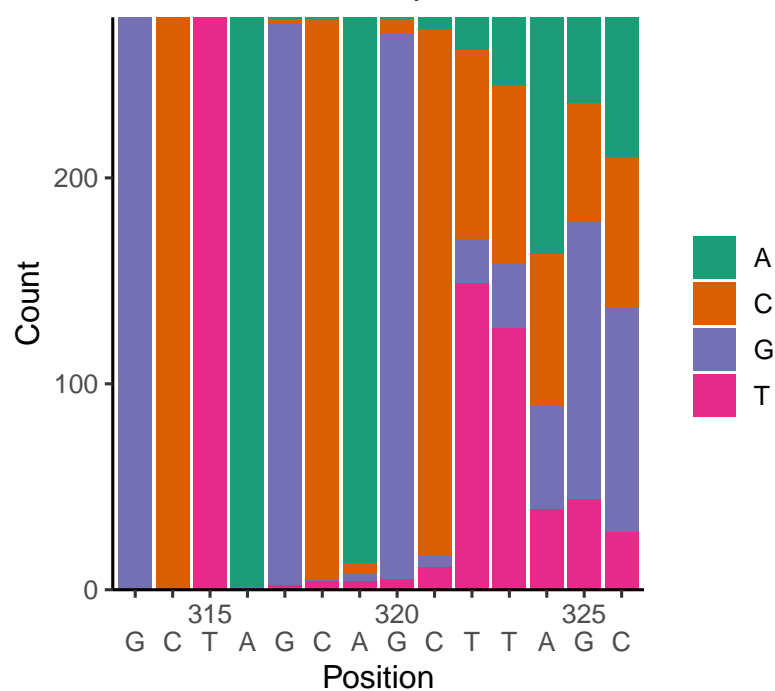


Gene TRBV7-1\*ap01\_T296C



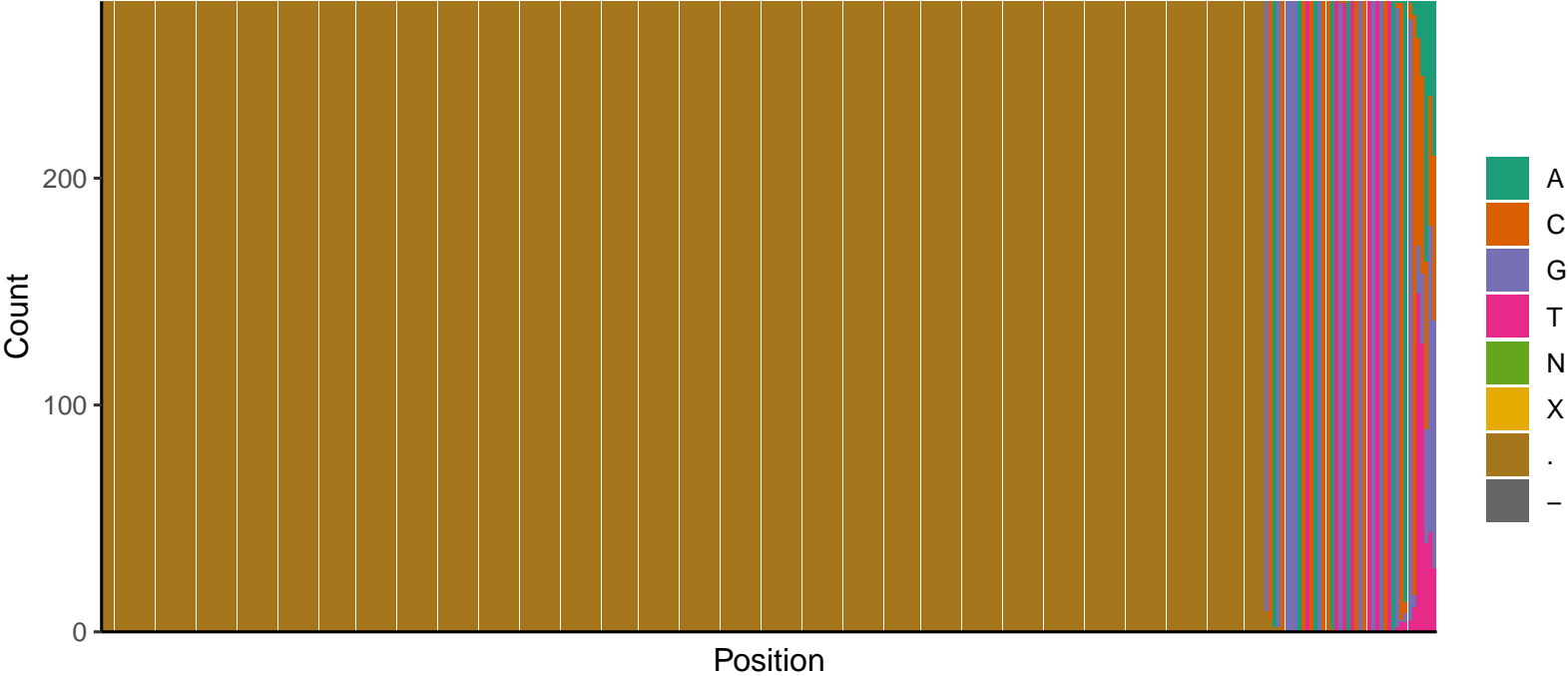
Gene TRBV7-7\*ap01\_C315T



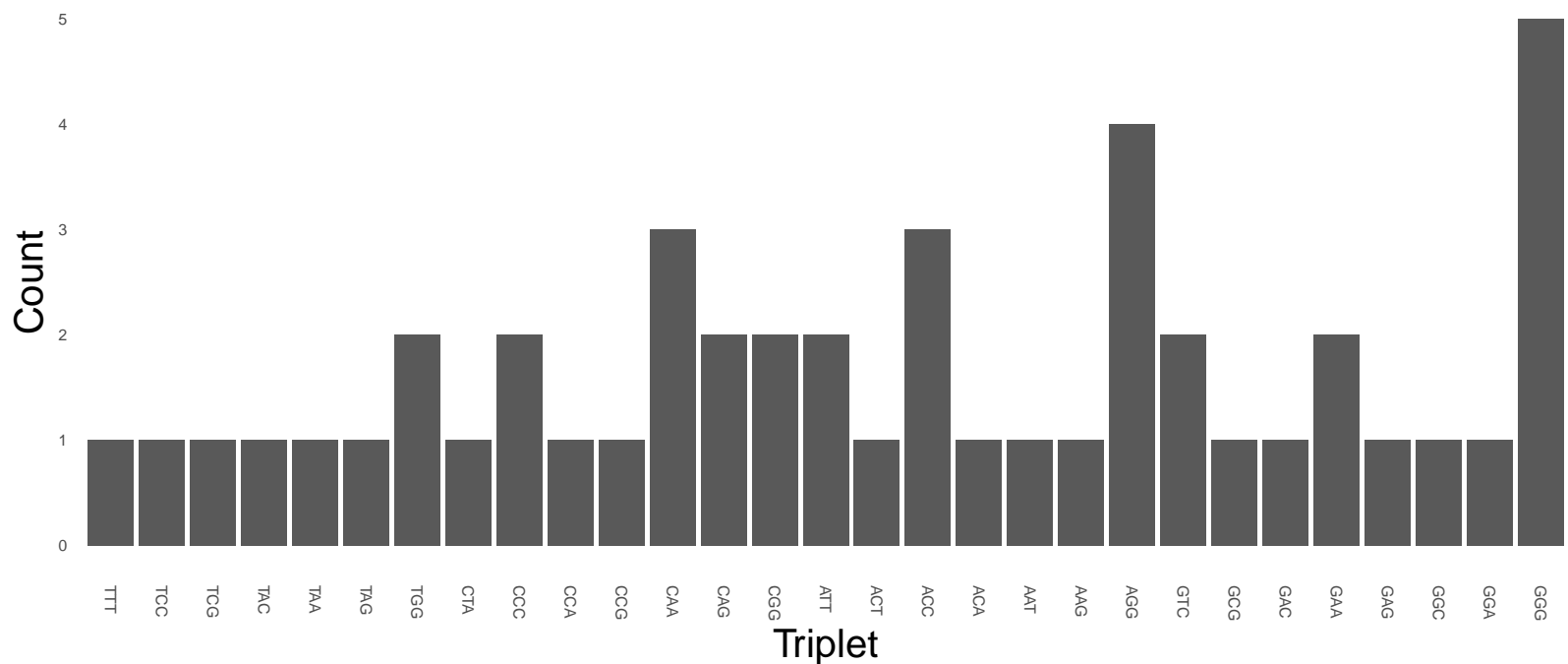
Gene TRBV7-1\*ap01\_T296C



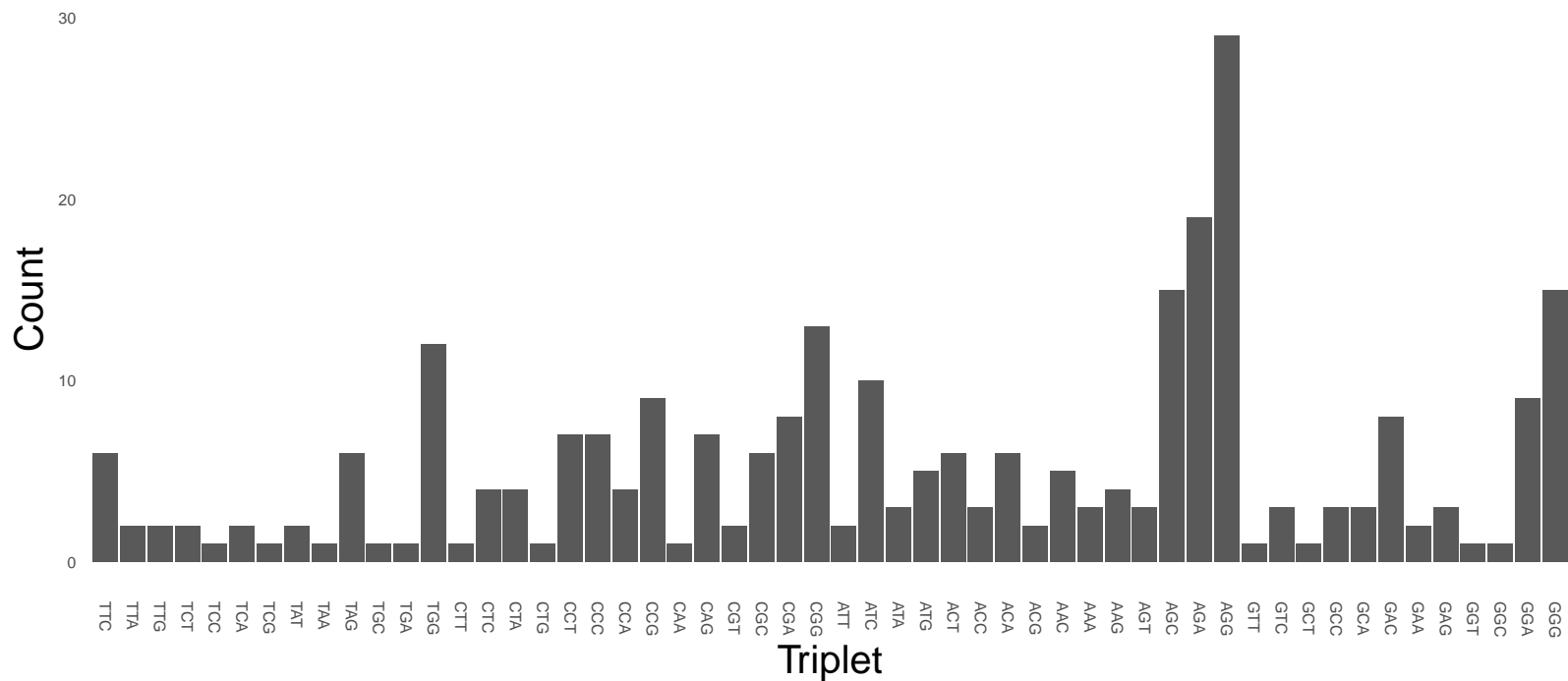
Gene TRBV7-7\*ap01\_C315T



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

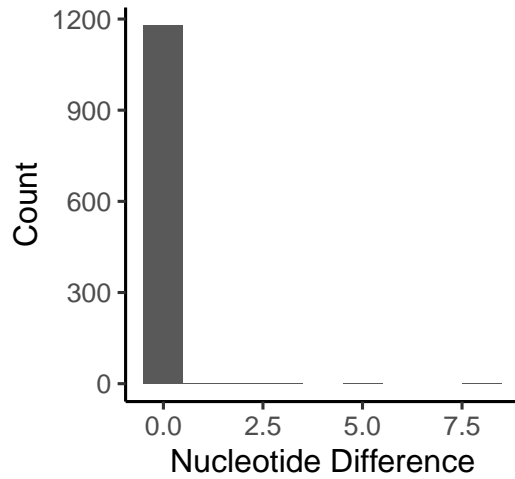


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



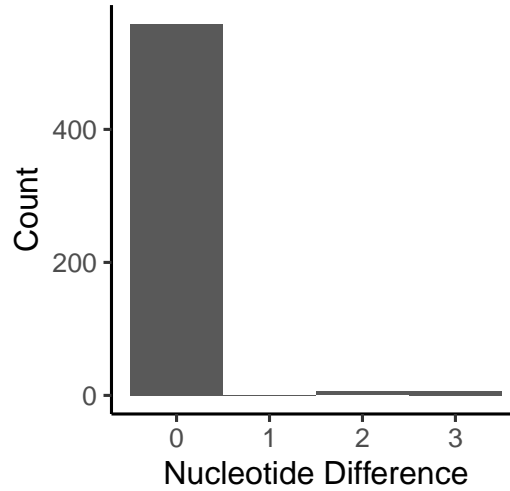
### TRBV10-1\*ap01

1187 sequences assigned  
1179 (99.3%) exact matches, in which:  
1169 unique CDR3  
13 unique J



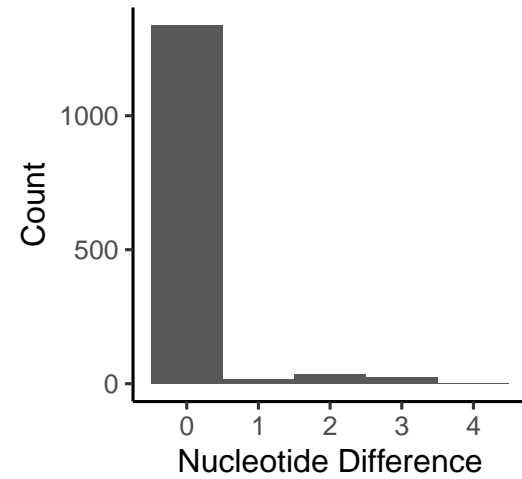
### TRBV10-2\*ap01

573 sequences assigned  
559 (97.6%) exact matches, in which:  
556 unique CDR3  
13 unique J



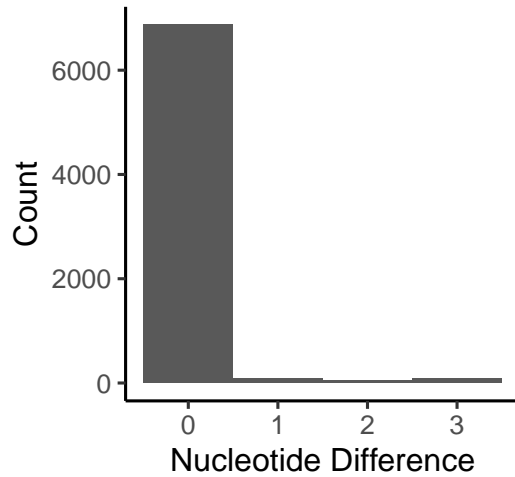
### TRBV13\*ap01

1419 sequences assigned  
1337 (94.2%) exact matches, in which:  
1313 unique CDR3  
13 unique J



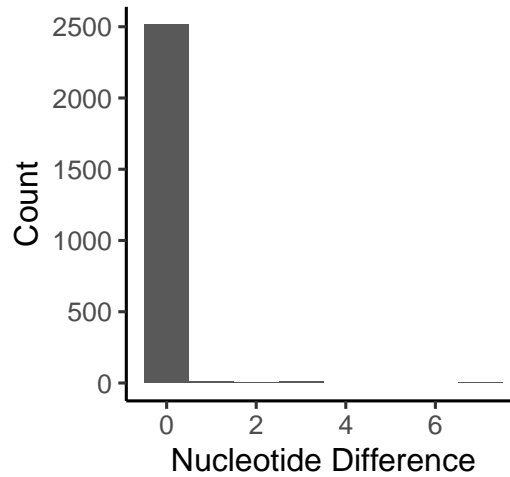
### TRBV20-1\*ap01

7082 sequences assigned  
6872 (97%) exact matches, in which:  
6743 unique CDR3  
13 unique J



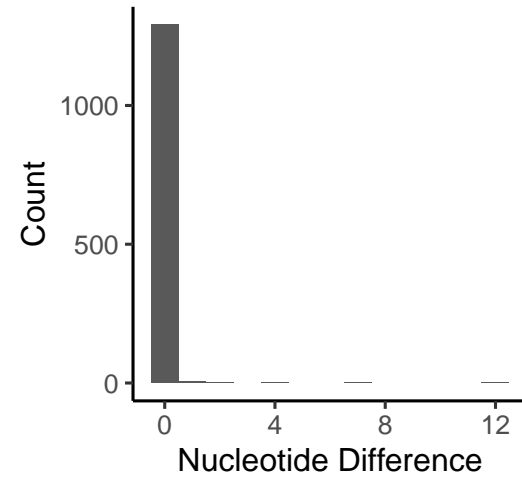
### TRBV10-3\*ap01

2544 sequences assigned  
2514 (98.8%) exact matches, in which:  
2499 unique CDR3  
13 unique J



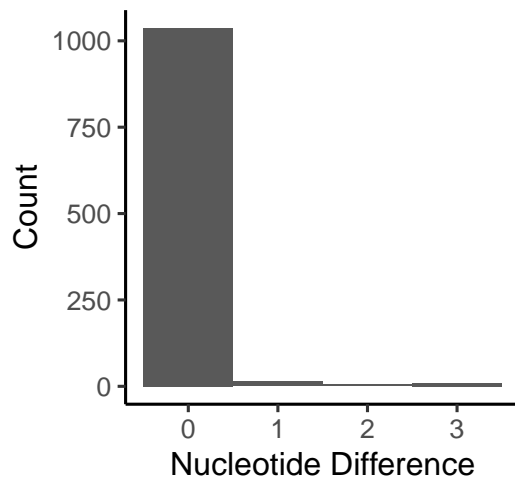
### TRBV14\*ap01

1302 sequences assigned  
1291 (99.2%) exact matches, in which:  
1283 unique CDR3  
13 unique J



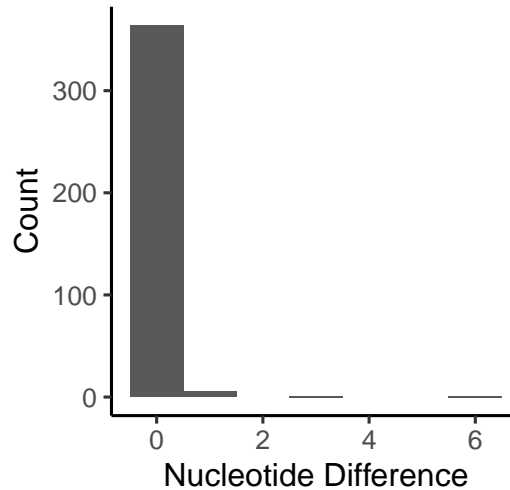
### TRBV20-1\*ap02

1066 sequences assigned  
1037 (97.3%) exact matches, in which:  
1019 unique CDR3  
13 unique J



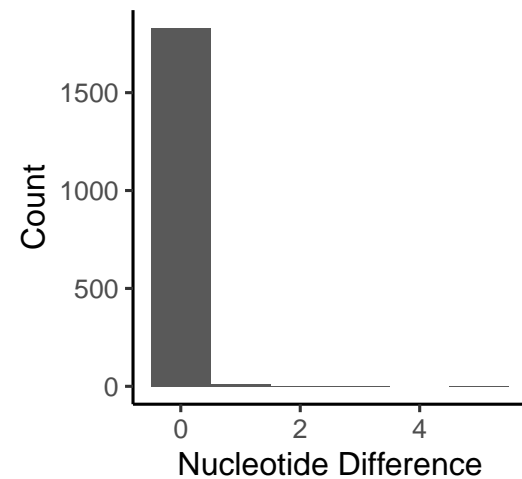
### TRBV1\*ap01

371 sequences assigned  
364 (98.1%) exact matches, in which:  
359 unique CDR3  
13 unique J



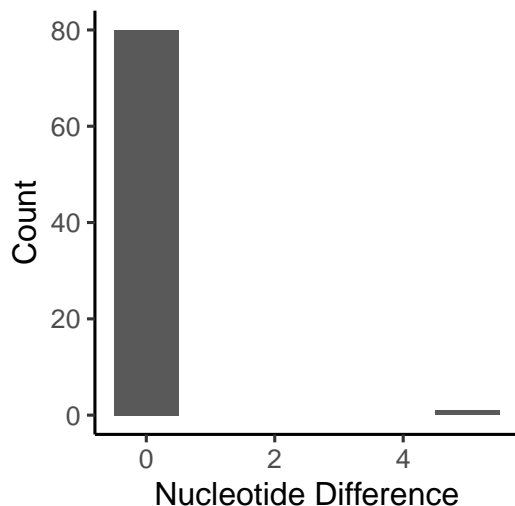
### TRBV15\*ap02

1845 sequences assigned  
1830 (99.2%) exact matches, in which:  
1816 unique CDR3  
13 unique J



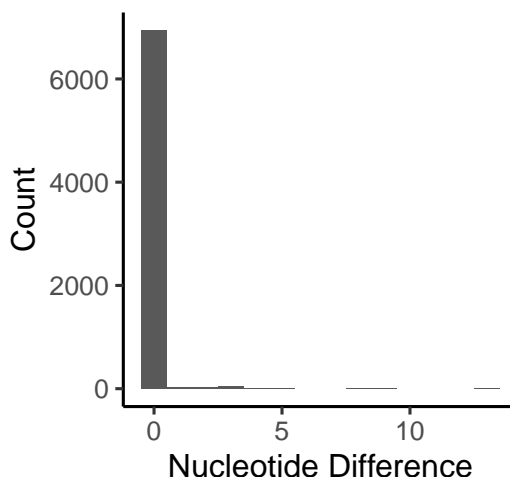
### TRBV16\*ap01

81 sequences assigned  
80 (98.8%) exact matches, in which:  
78 unique CDR3  
13 unique J



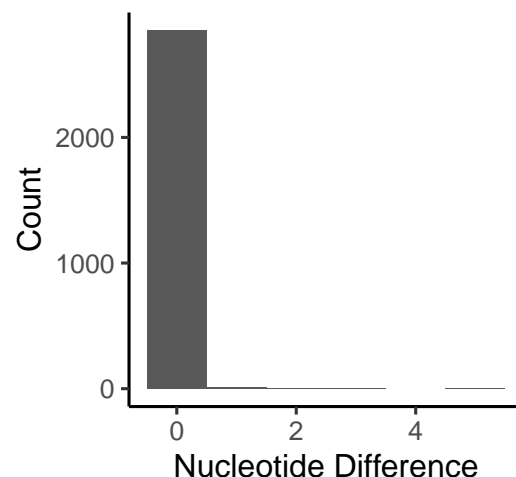
### TRBV19\*ap01

7056 sequences assigned  
6940 (98.4%) exact matches, in which:  
6903 unique CDR3  
13 unique J



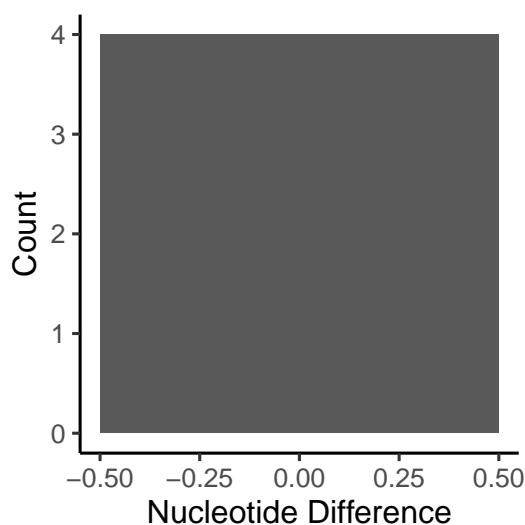
### TRBV28\*ap01

2874 sequences assigned  
2852 (99.2%) exact matches, in which:  
2829 unique CDR3  
13 unique J



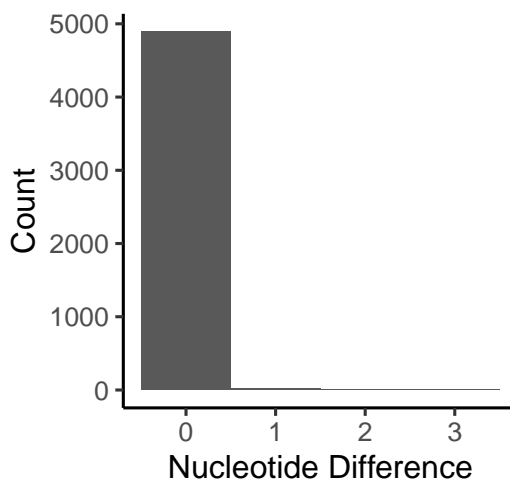
### TRBV17\*ap01

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



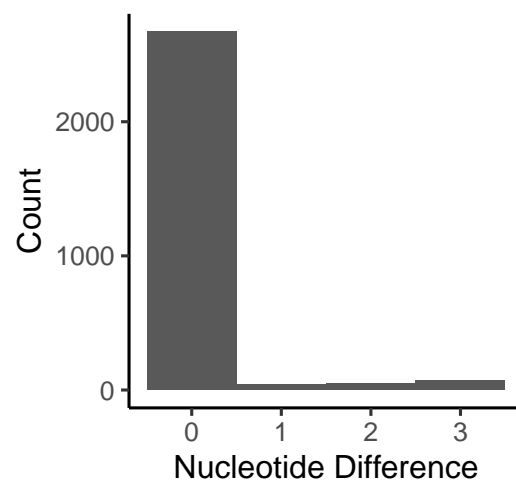
### TRBV2\*ap01

4928 sequences assigned  
4892 (99.3%) exact matches, in which:  
4862 unique CDR3  
13 unique J



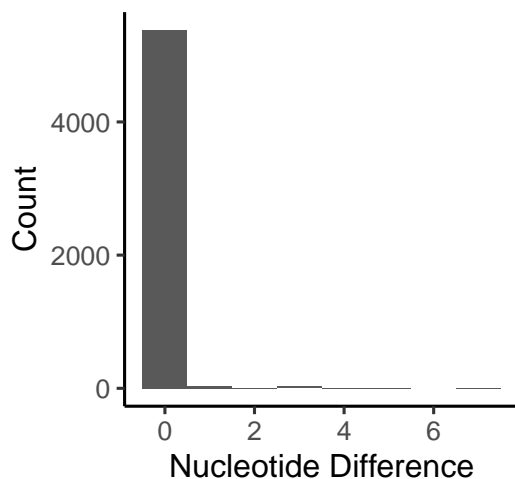
### TRBV30\*ap01

2832 sequences assigned  
2671 (94.3%) exact matches, in which:  
2597 unique CDR3  
13 unique J



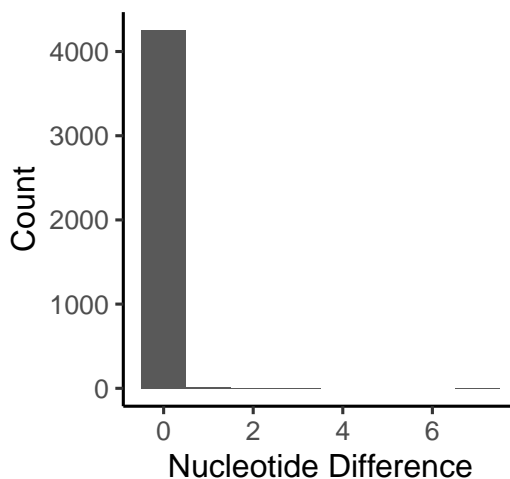
### TRBV18\*ap01

5452 sequences assigned  
5380 (98.7%) exact matches, in which:  
5294 unique CDR3  
13 unique J



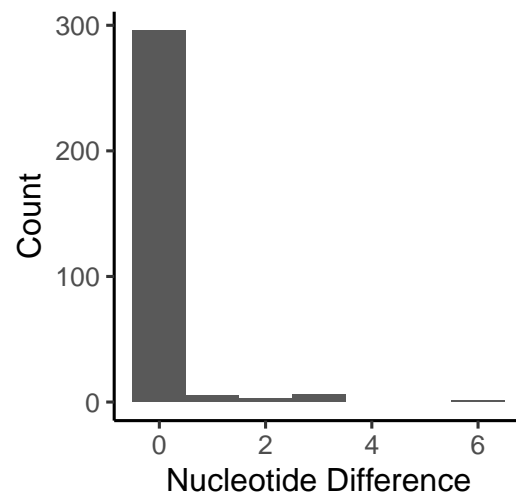
### TRBV27\*ap01

4275 sequences assigned  
4255 (99.5%) exact matches, in which:  
4233 unique CDR3  
13 unique J



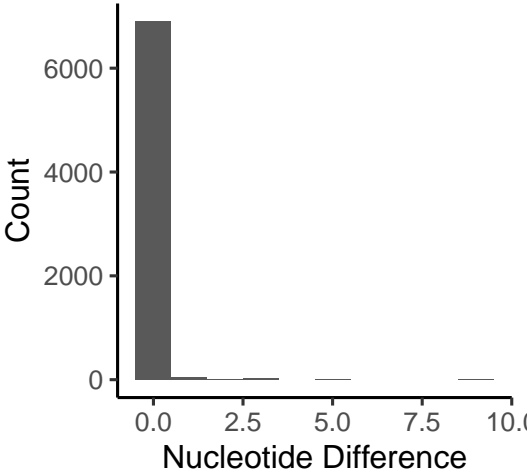
### TRBV30\*ap02

311 sequences assigned  
296 (95.2%) exact matches, in which:  
292 unique CDR3  
13 unique J



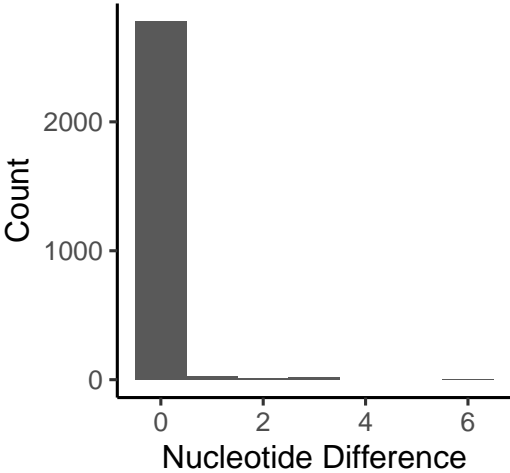
TRBV9\*ap01

6993 sequences assigned  
6901 (98.7%) exact matches, in which:  
6822 unique CDR3  
13 unique J



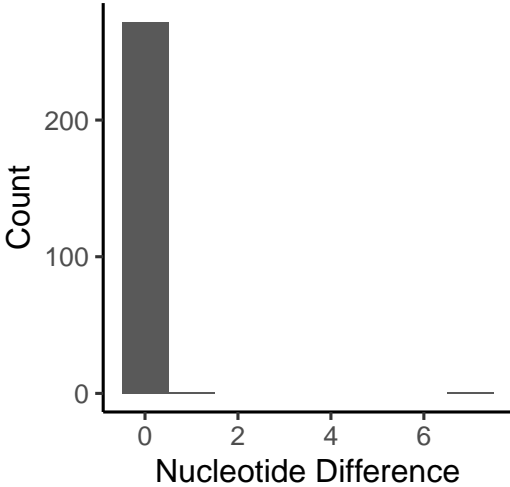
TRBV11-2\*ap01

2846 sequences assigned  
2779 (97.6%) exact matches, in which:  
2744 unique CDR3  
13 unique J



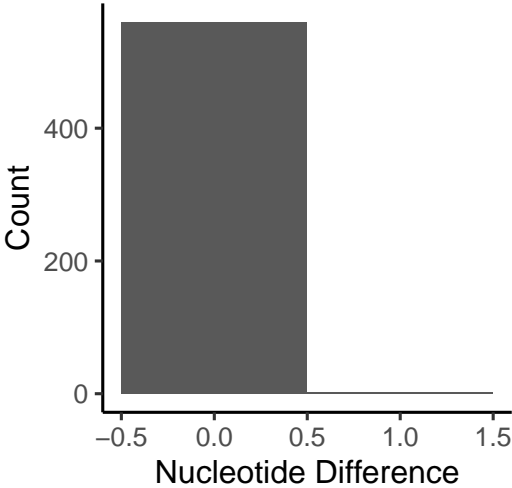
TRBV12-2\*ap01

274 sequences assigned  
272 (99.3%) exact matches, in which:  
271 unique CDR3  
13 unique J



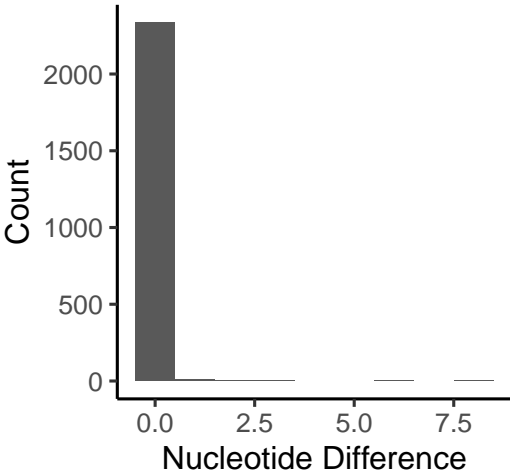
TRBV11-1\*ap01

562 sequences assigned  
560 (99.6%) exact matches, in which:  
556 unique CDR3  
13 unique J



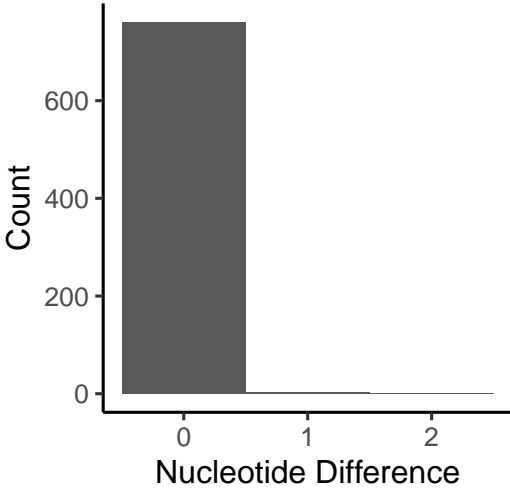
TRBV11-3\*ap01

2348 sequences assigned  
2334 (99.4%) exact matches, in which:  
2318 unique CDR3  
13 unique J



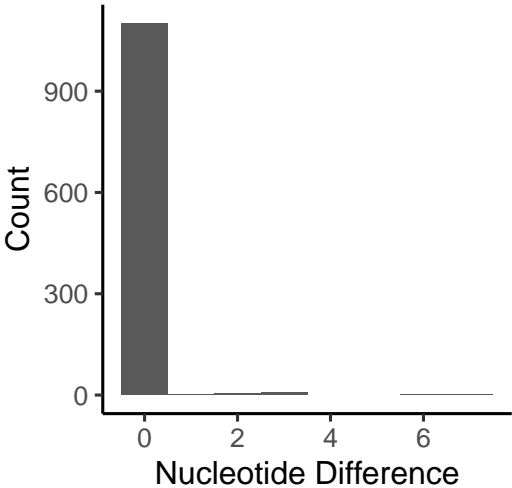
TRBV12-5\*ap01

767 sequences assigned  
761 (99.2%) exact matches, in which:  
758 unique CDR3  
13 unique J



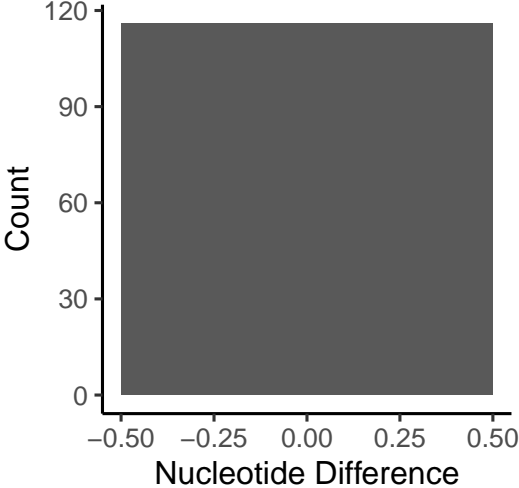
TRBV21-1\*ap01

1117 sequences assigned  
1101 (98.6%) exact matches, in which:  
1098 unique CDR3  
13 unique J



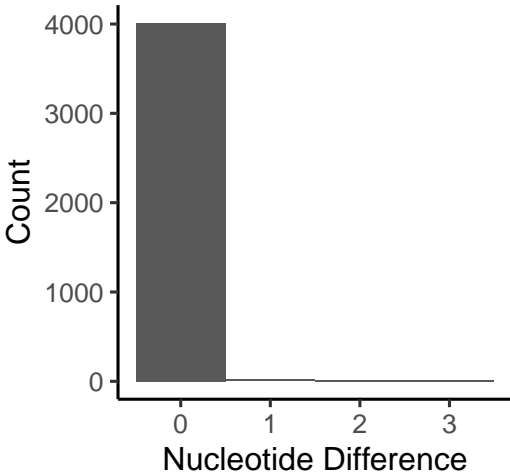
TRBV12-1\*ap01

116 sequences assigned  
116 (100%) exact matches, in which:  
116 unique CDR3  
12 unique J



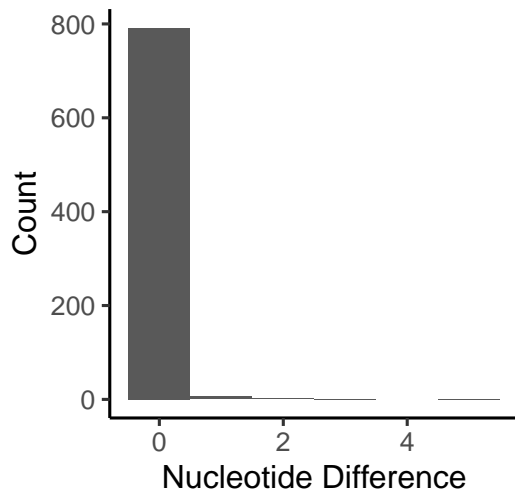
TRBV12-34\*ap01

4059 sequences assigned  
4011 (98.8%) exact matches, in which:  
3981 unique CDR3  
13 unique J



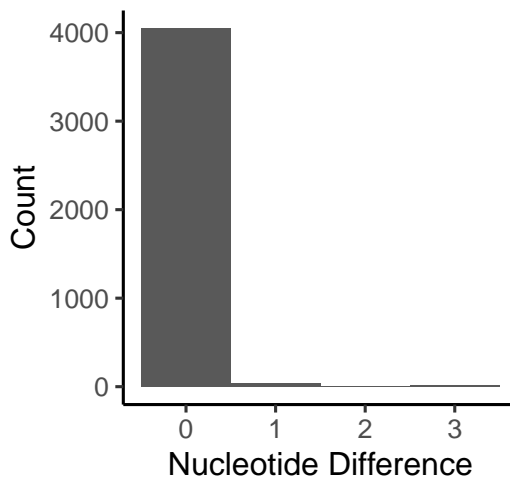
### TRBV23-1\*ap01

802 sequences assigned  
792 (98.8%) exact matches, in which:  
785 unique CDR3  
13 unique J



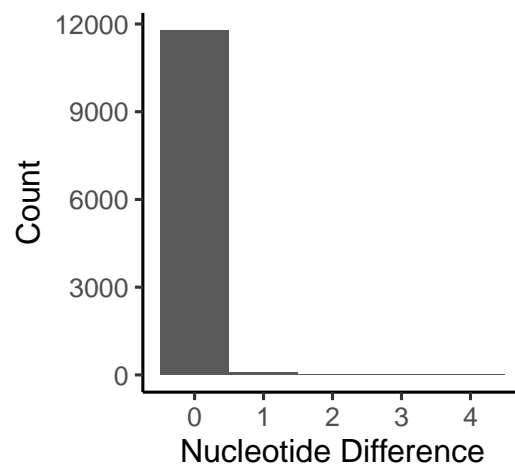
### TRBV4-1\*ap01

4112 sequences assigned  
4048 (98.4%) exact matches, in which:  
3989 unique CDR3  
13 unique J



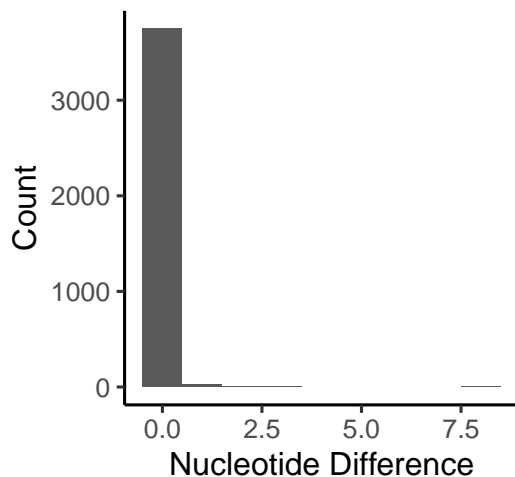
### TRBV5-1\*ap01

11919 sequences assigned  
11790 (98.9%) exact matches, in which:  
11667 unique CDR3  
13 unique J



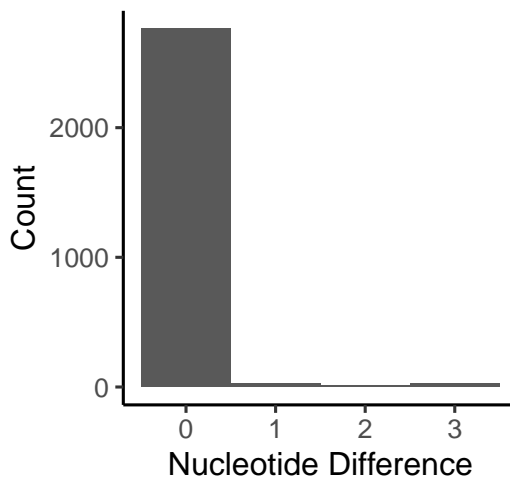
### TRBV3-12\*ap01

3783 sequences assigned  
3748 (99.1%) exact matches, in which:  
3733 unique CDR3  
13 unique J



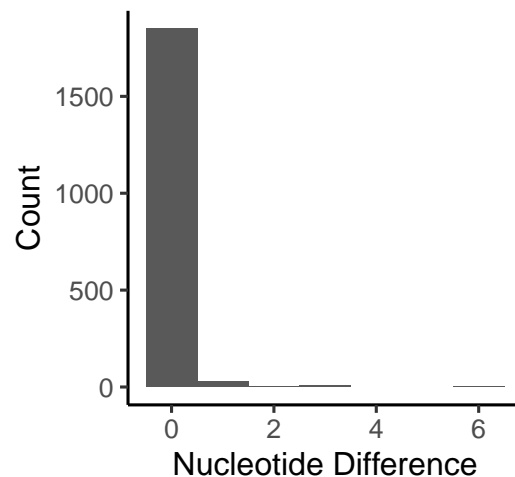
### TRBV4-2\*ap01

2831 sequences assigned  
2763 (97.6%) exact matches, in which:  
2720 unique CDR3  
13 unique J



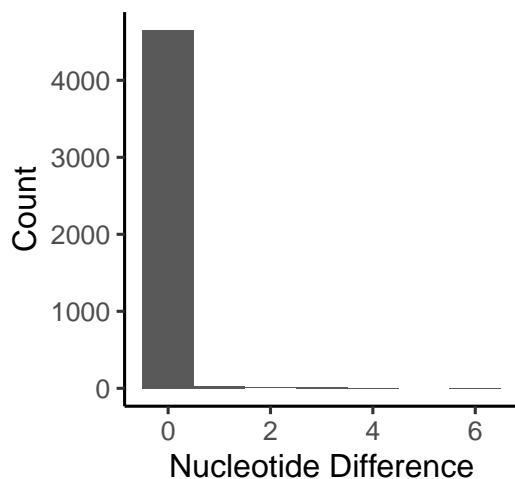
### TRBV25-1\*ap01

1890 sequences assigned  
1849 (97.8%) exact matches, in which:  
1801 unique CDR3  
13 unique J



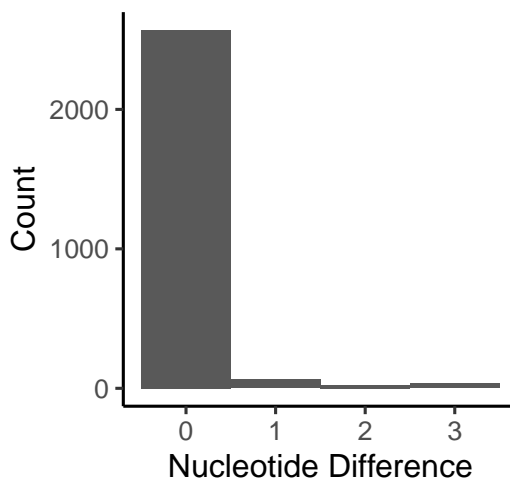
### TRBV24-1\*ap01

4725 sequences assigned  
4653 (98.5%) exact matches, in which:  
4616 unique CDR3  
13 unique J



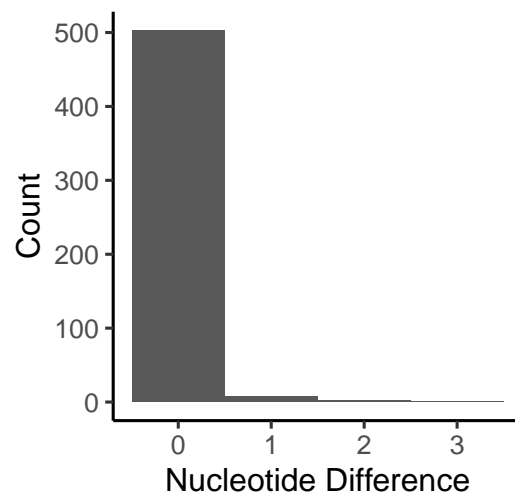
### TRBV4-3\*ap01

2688 sequences assigned  
2569 (95.6%) exact matches, in which:  
2530 unique CDR3  
13 unique J



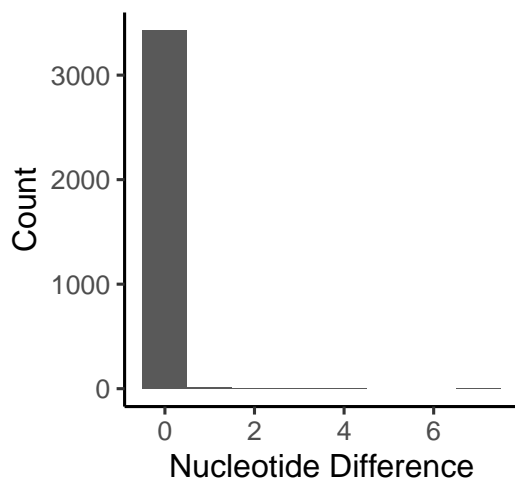
### TRBV5-3\*ap01

513 sequences assigned  
503 (98.1%) exact matches, in which:  
492 unique CDR3  
13 unique J



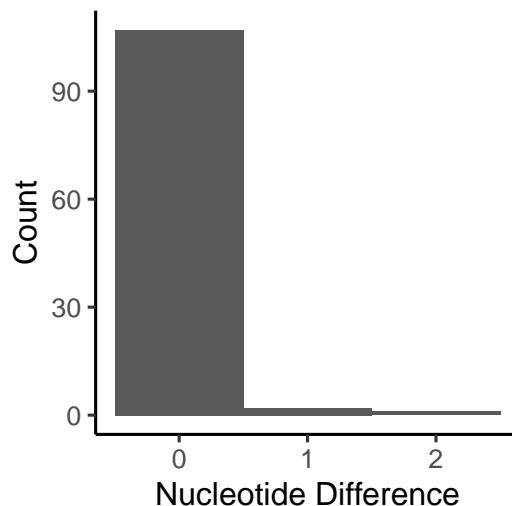
### TRBV5-4\*ap01

3455 sequences assigned  
3428 (99.2%) exact matches, in which:  
3401 unique CDR3  
13 unique J



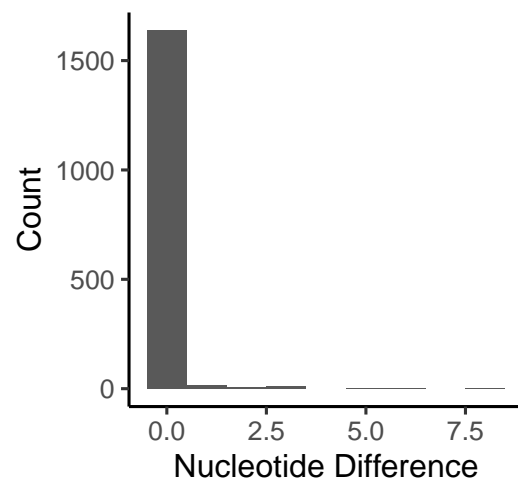
### TRBV5-7\*ap01

110 sequences assigned  
107 (97.3%) exact matches, in which:  
106 unique CDR3  
13 unique J



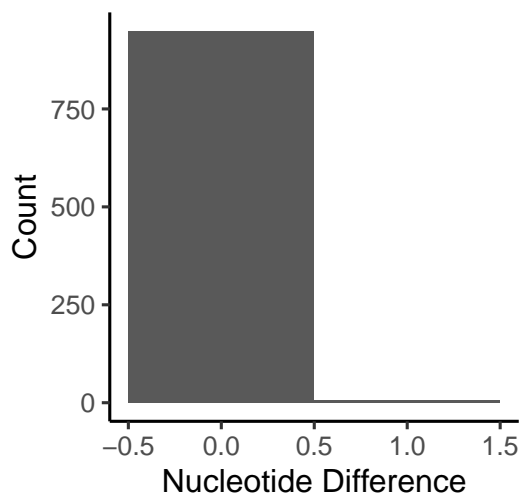
### TRBV6-4\*ap01

1673 sequences assigned  
1638 (97.9%) exact matches, in which:  
1631 unique CDR3  
13 unique J



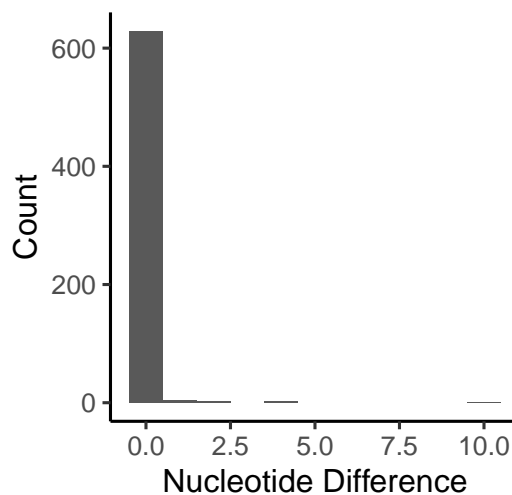
### TRBV5-5\*ap01

956 sequences assigned  
949 (99.3%) exact matches, in which:  
946 unique CDR3  
13 unique J



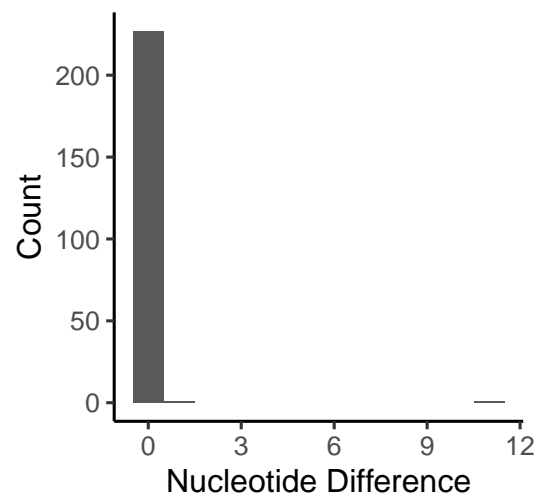
### TRBV5-8\*ap01

640 sequences assigned  
629 (98.3%) exact matches, in which:  
627 unique CDR3  
13 unique J



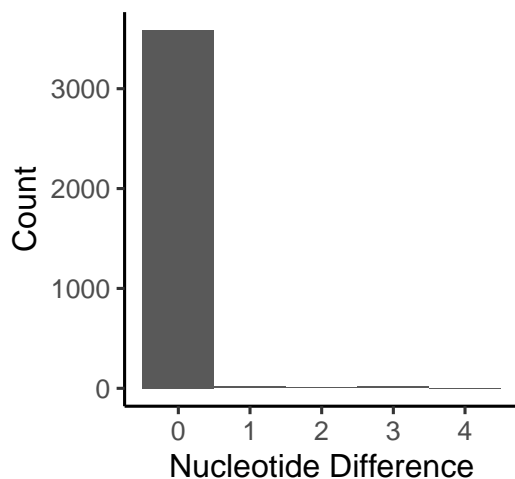
### TRBV6-7\*ap01

229 sequences assigned  
227 (99.1%) exact matches, in which:  
223 unique CDR3  
13 unique J



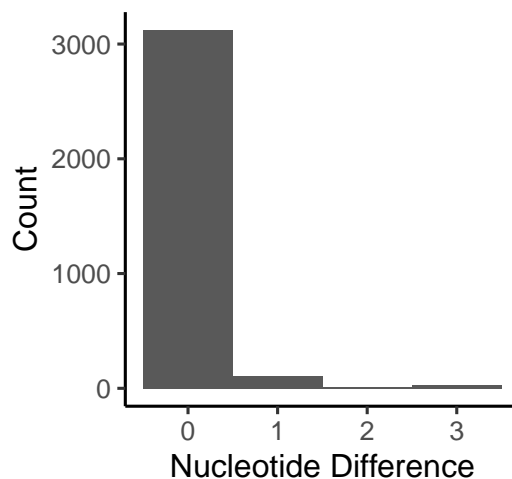
### TRBV5-6\*ap01

3638 sequences assigned  
3587 (98.6%) exact matches, in which:  
3542 unique CDR3  
13 unique J



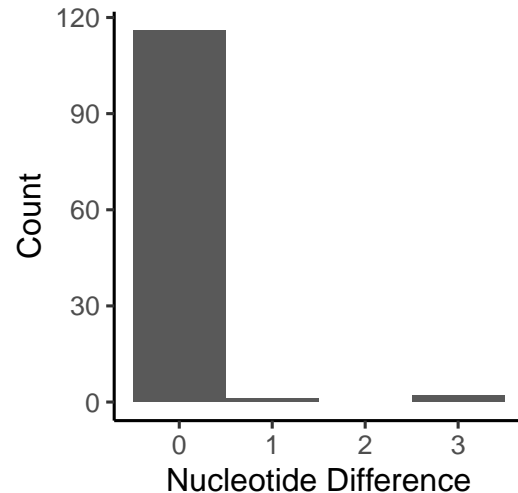
### TRBV6-1\*ap01

3270 sequences assigned  
3122 (95.5%) exact matches, in which:  
3059 unique CDR3  
13 unique J



### TRBV6-8\*ap01

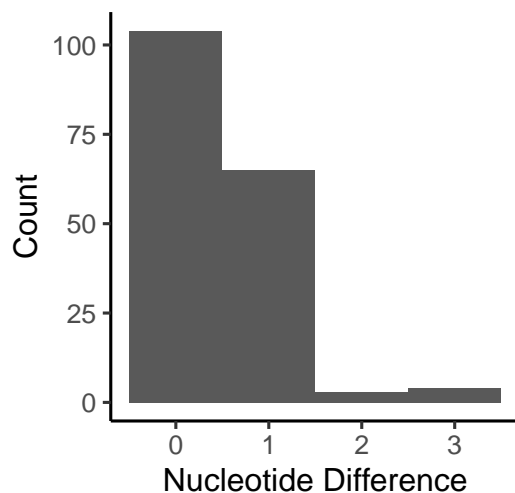
119 sequences assigned  
116 (97.5%) exact matches, in which:  
115 unique CDR3  
12 unique J





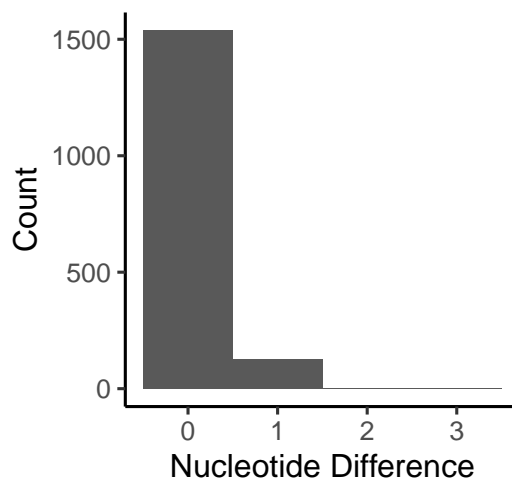
### TRBV6-9\*ap01

176 sequences assigned  
104 (59.1%) exact matches, in which:  
102 unique CDR3  
13 unique J



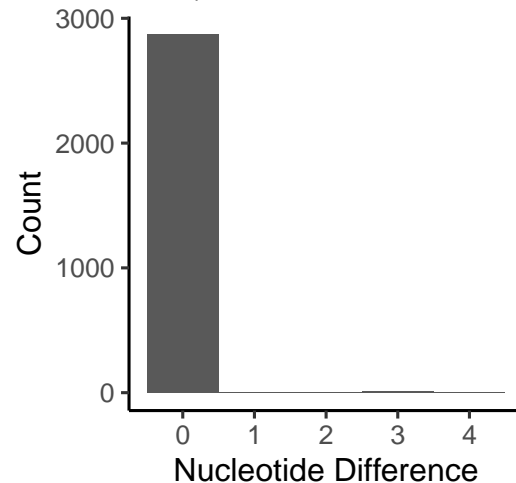
### TRBV6-56\*ap02

1668 sequences assigned  
1538 (92.2%) exact matches, in which:  
1515 unique CDR3  
13 unique J



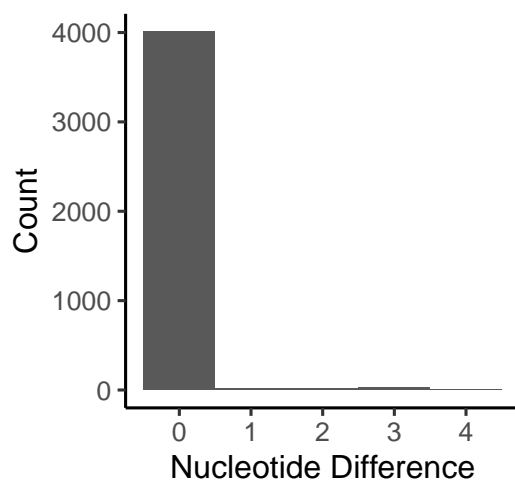
### TRBV7-3\*ap01

2892 sequences assigned  
2871 (99.3%) exact matches, in which:  
2854 unique CDR3  
13 unique J



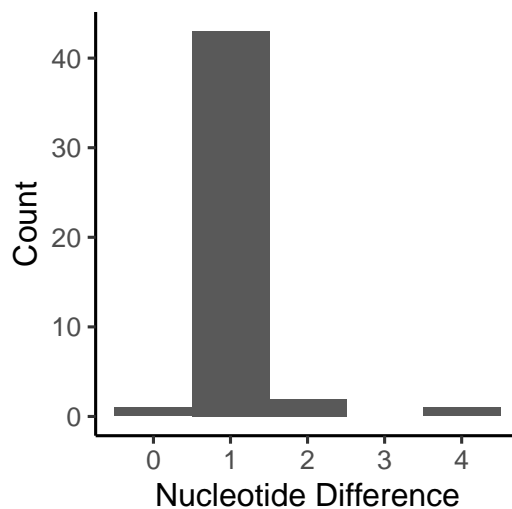
### TRBV6-23\*ap01

4079 sequences assigned  
4009 (98.3%) exact matches, in which:  
3948 unique CDR3  
13 unique J



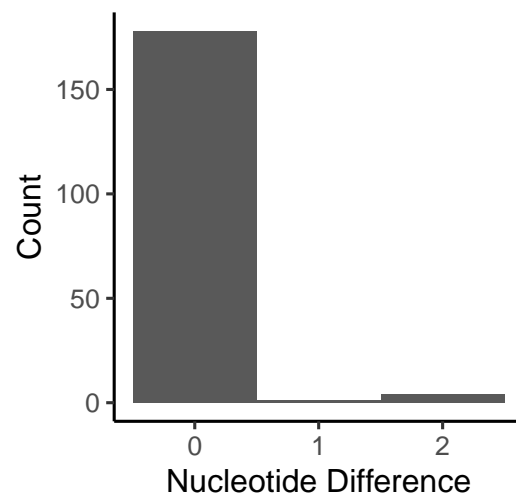
### TRBV7-1\*ap01\_T296C

47 sequences assigned  
1 (2.1%) exact matches, in which:  
1 unique CDR3  
1 unique J



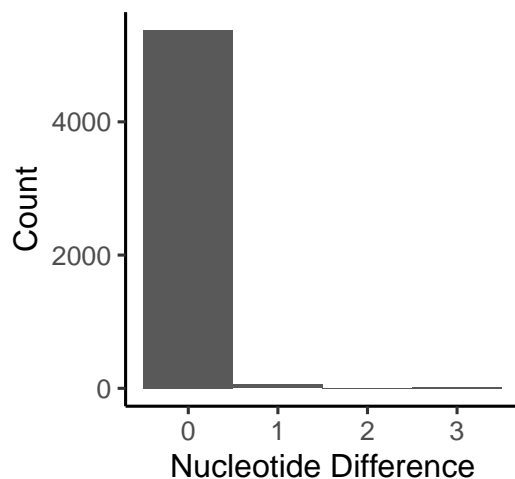
### TRBV7-4\*ap01

183 sequences assigned  
178 (97.3%) exact matches, in which:  
177 unique CDR3  
13 unique J



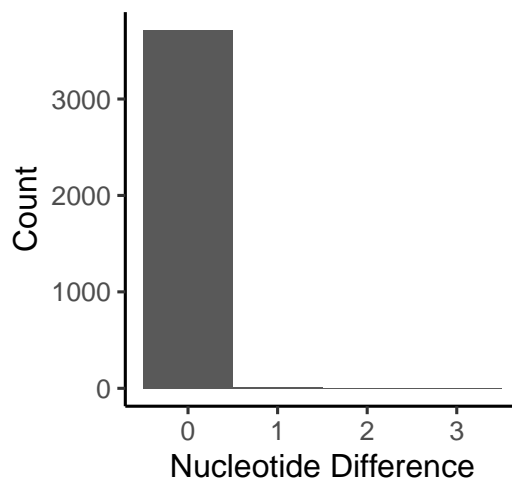
### TRBV6-56\*ap01

5455 sequences assigned  
5378 (98.6%) exact matches, in which:  
5308 unique CDR3  
13 unique J



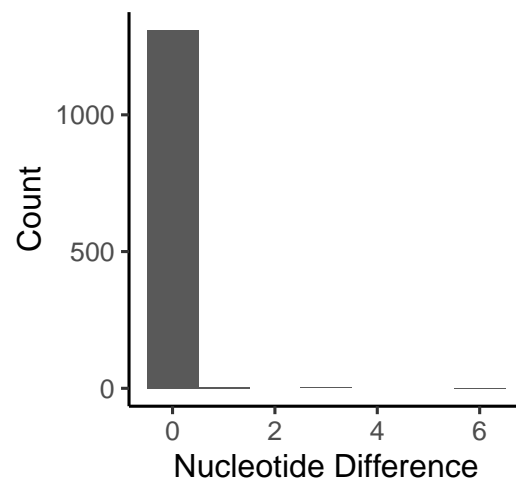
### TRBV7-2\*ap01

3735 sequences assigned  
3715 (99.5%) exact matches, in which:  
3686 unique CDR3  
13 unique J



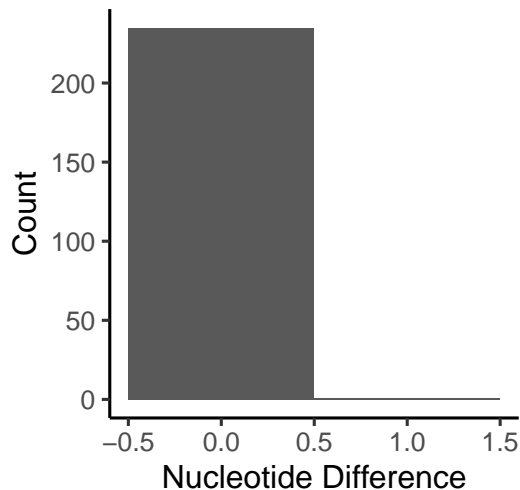
### TRBV7-6\*ap01

1319 sequences assigned  
1310 (99.3%) exact matches, in which:  
1300 unique CDR3  
13 unique J



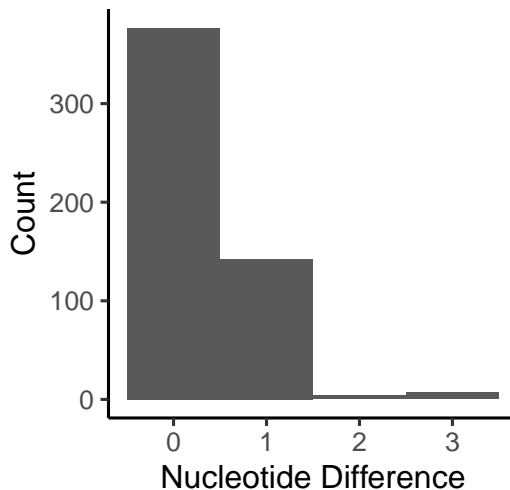
### TRBV7-7\*ap01

236 sequences assigned  
235 (99.6%) exact matches, in which:  
234 unique CDR3  
12 unique J



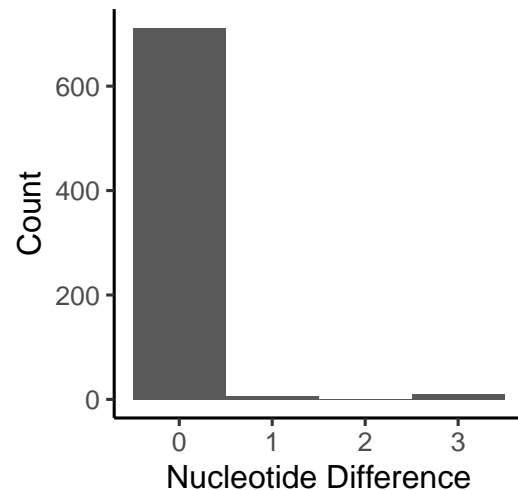
### TRBV7-8\*ap03

530 sequences assigned  
377 (71.1%) exact matches, in which:  
376 unique CDR3  
13 unique J



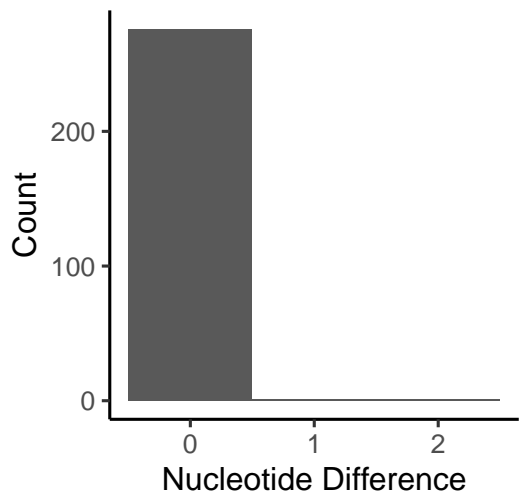
### TRBV29-1\*ap02

730 sequences assigned  
712 (97.5%) exact matches, in which:  
697 unique CDR3  
13 unique J



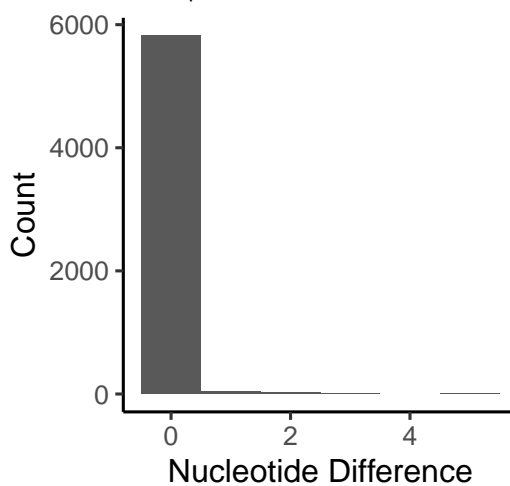
### TRBV7-7\*ap01\_C315T

278 sequences assigned  
276 (99.3%) exact matches, in which:  
274 unique CDR3  
13 unique J



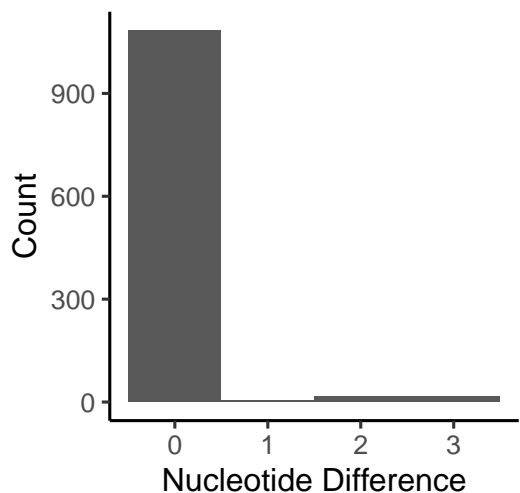
### TRBV7-9\*ap01

5888 sequences assigned  
5820 (98.8%) exact matches, in which:  
5760 unique CDR3  
13 unique J



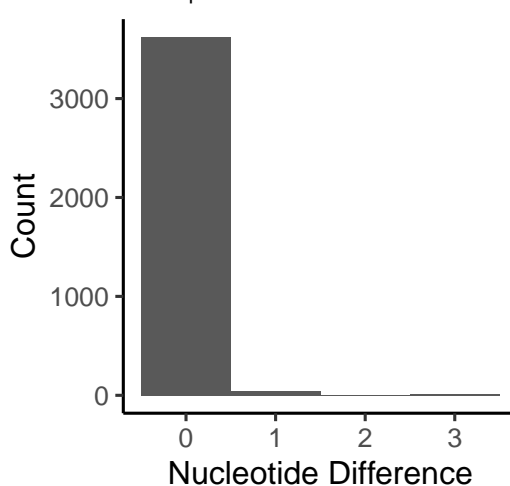
### TRBV7-8\*ap01

1121 sequences assigned  
1084 (96.7%) exact matches, in which:  
1077 unique CDR3  
13 unique J

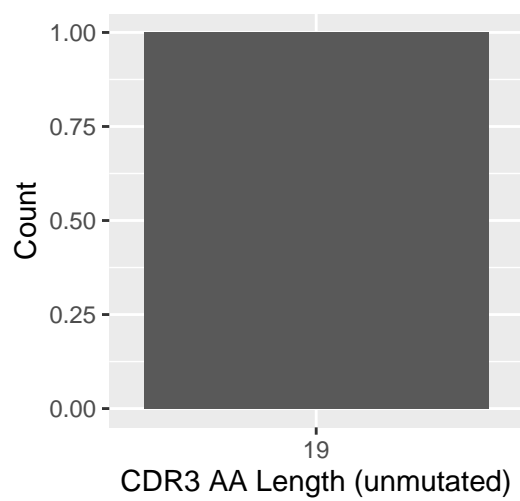


### TRBV29-1\*ap01

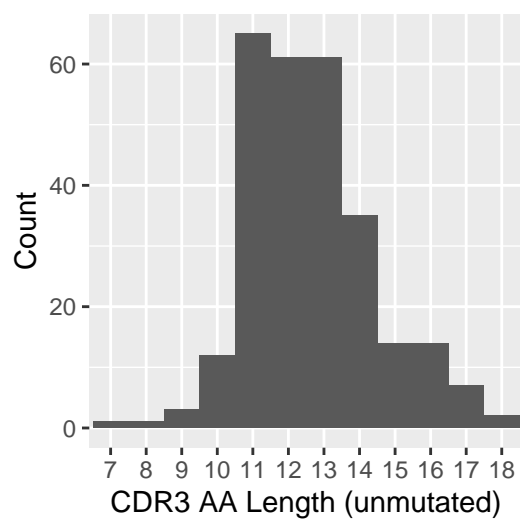
3684 sequences assigned  
3622 (98.3%) exact matches, in which:  
3544 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]