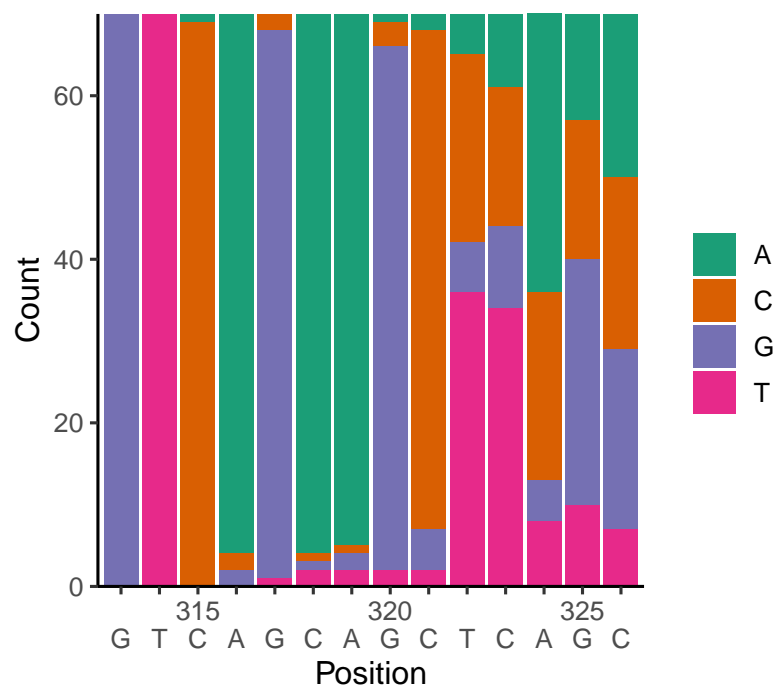
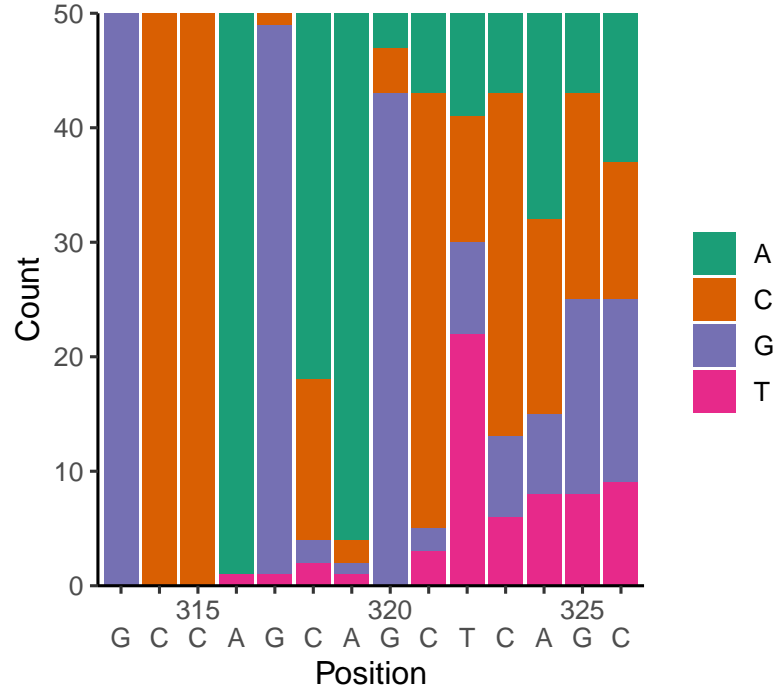


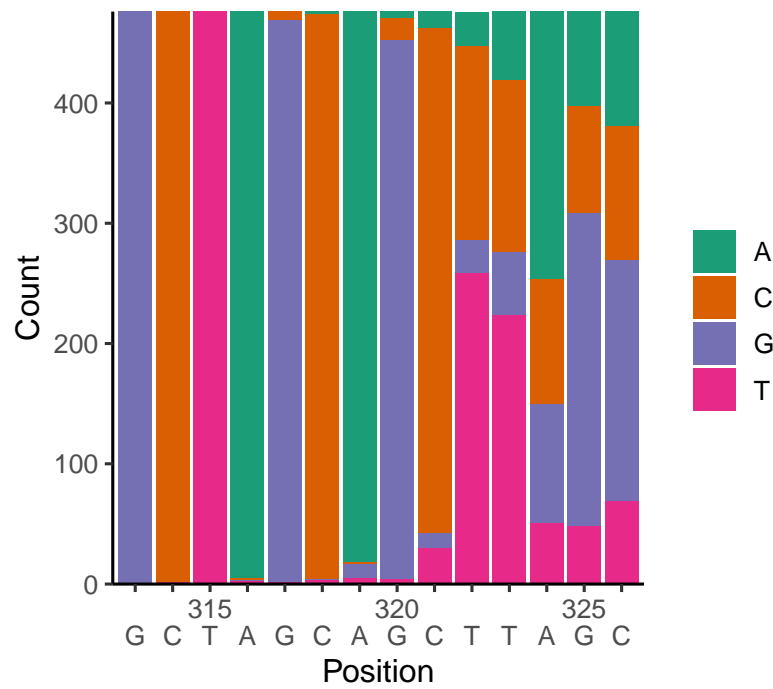
Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C



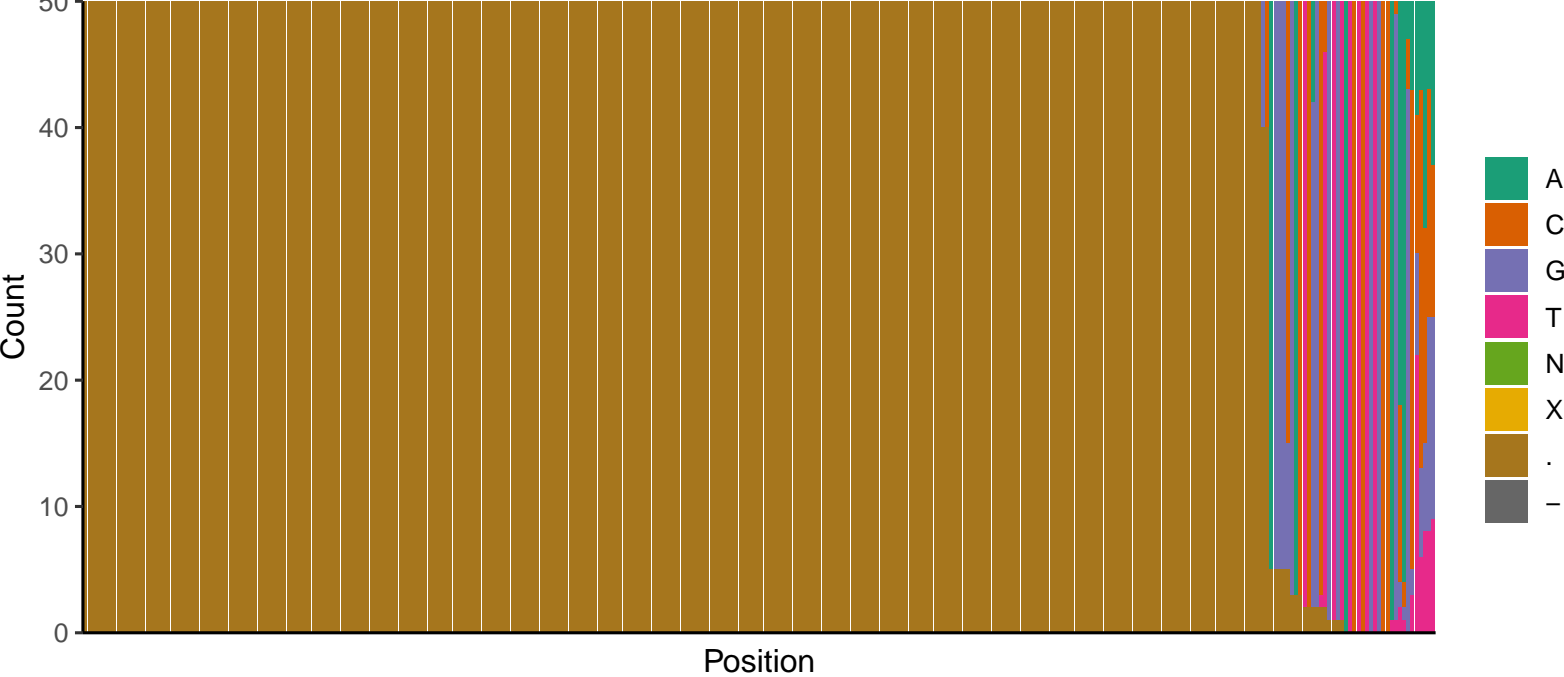
Gene TRBV7-7\*ap01\_C315T



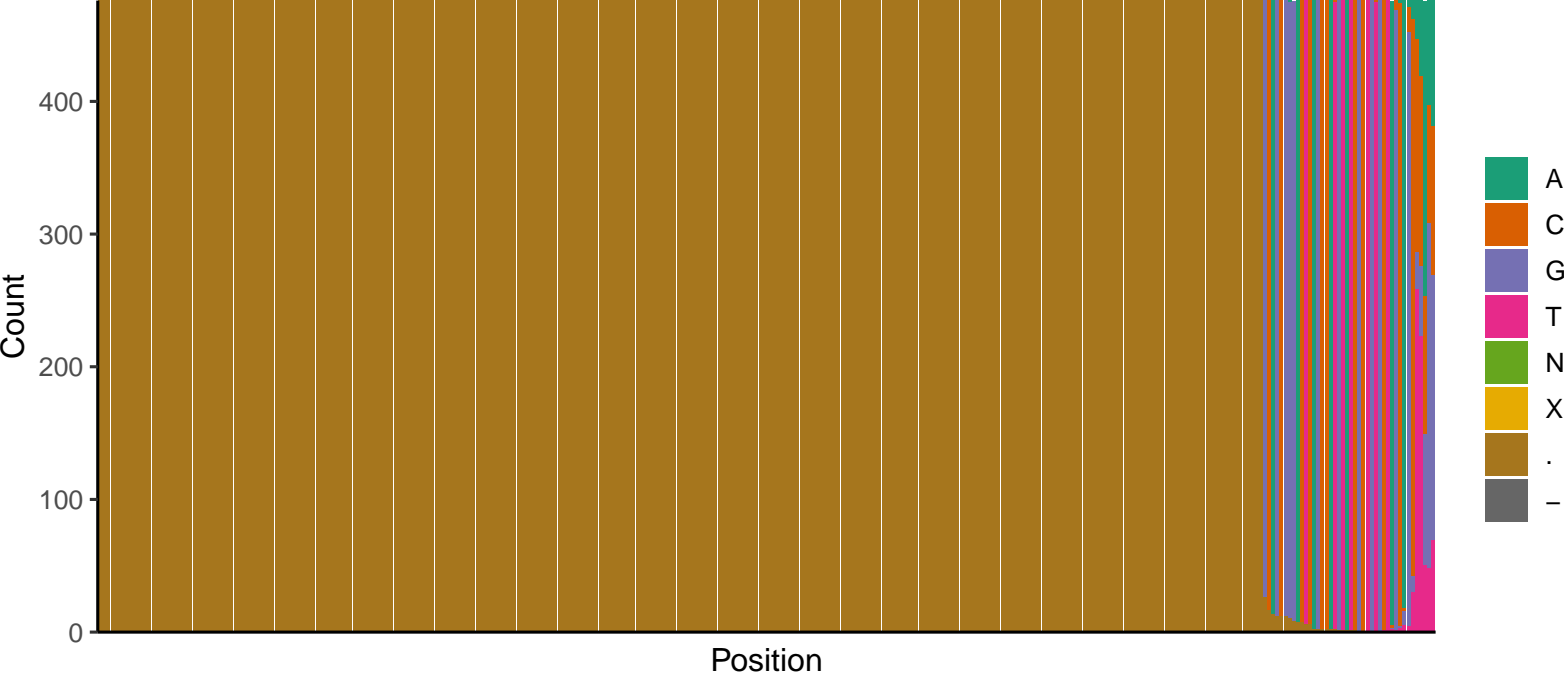
Gene TRBV7-1\*ap01\_T296C\_C314T



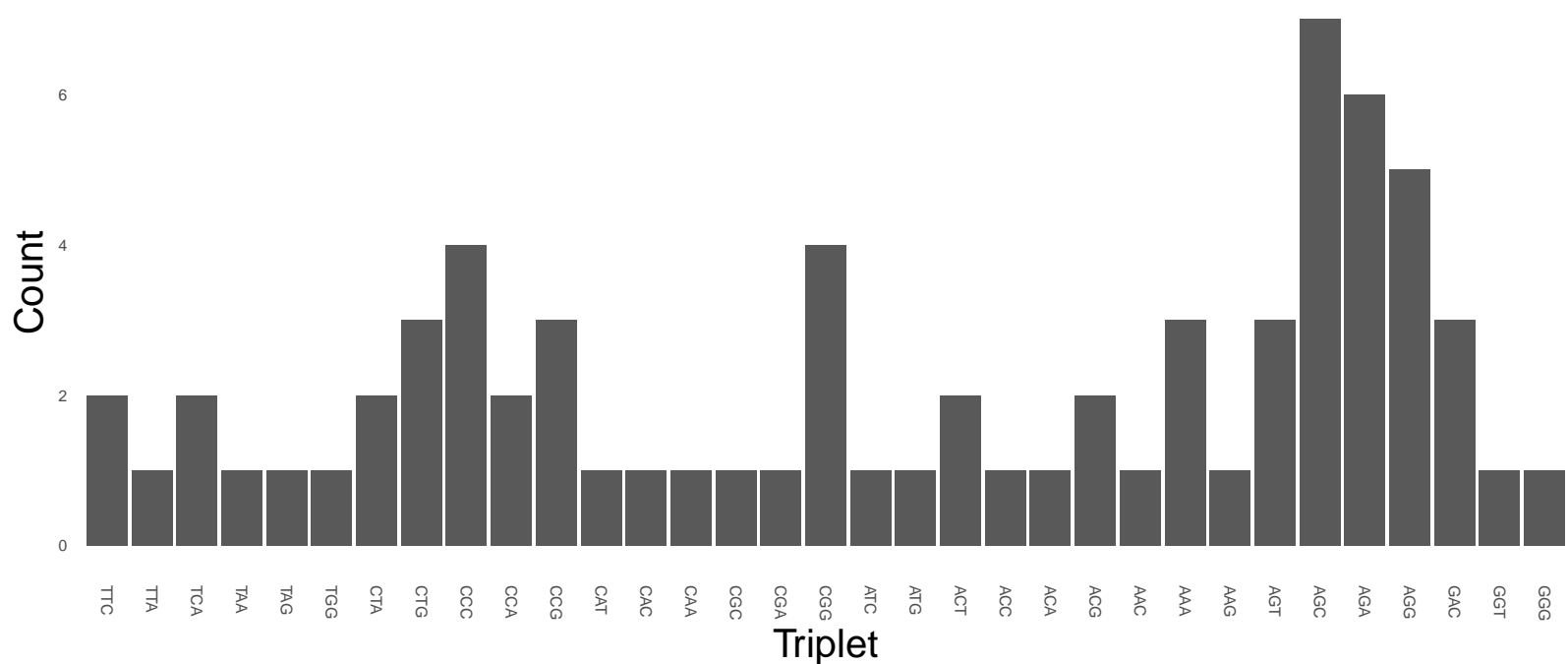
Gene TRBV7-1\*ap01\_T296C



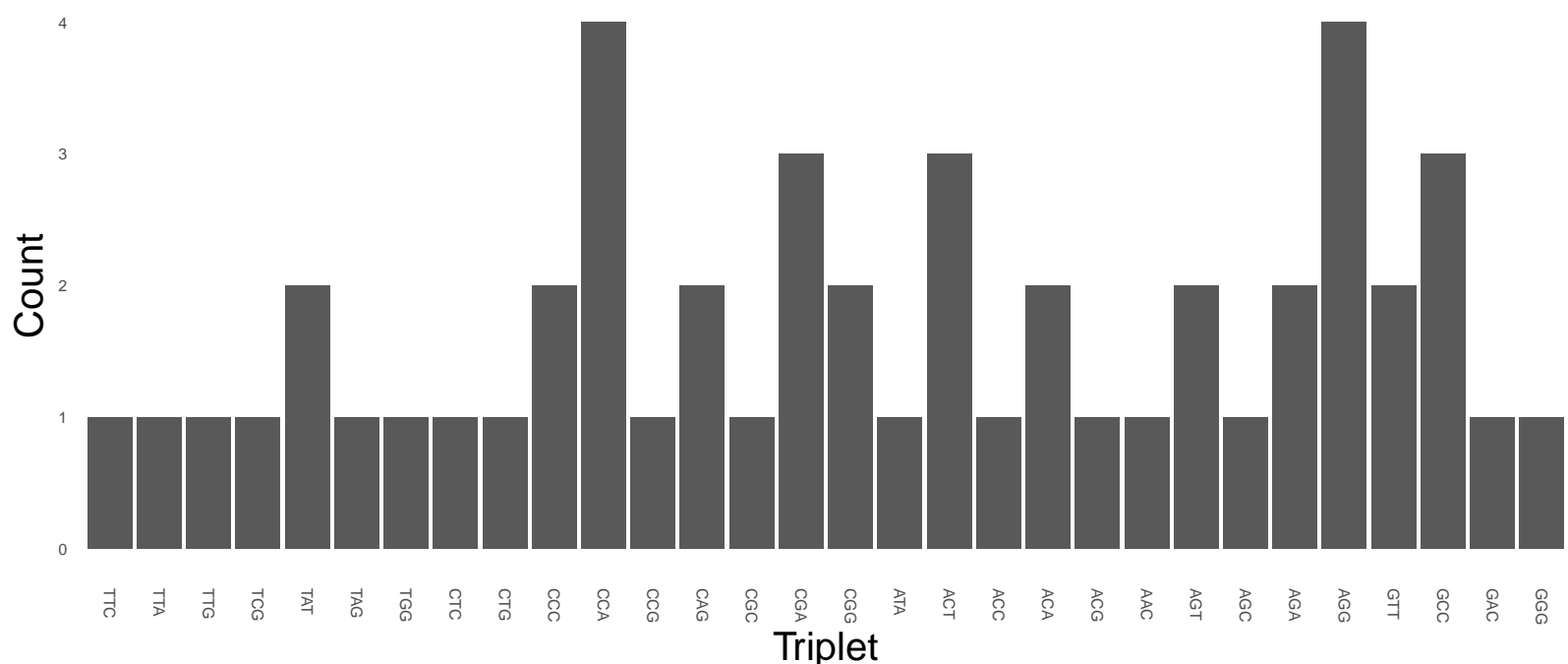
Gene TRBV7-7\*ap01\_C315T



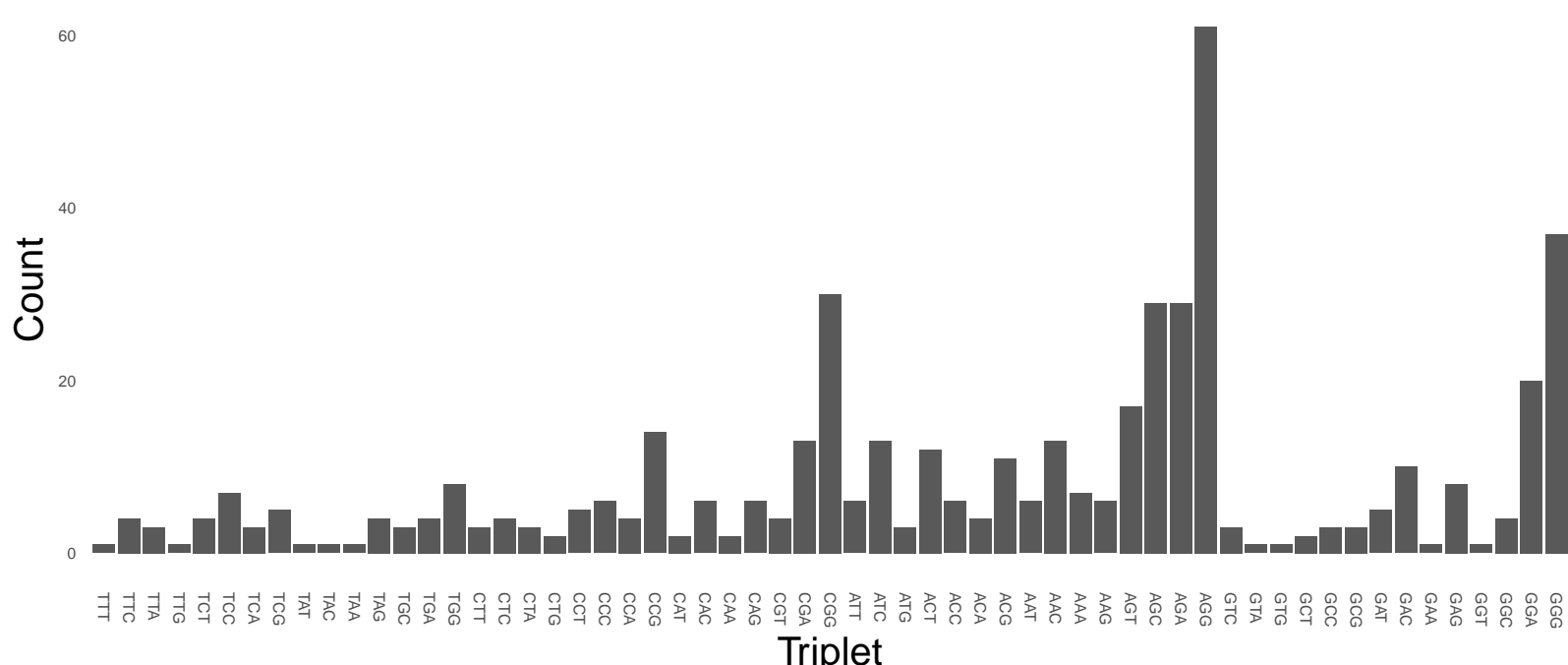
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

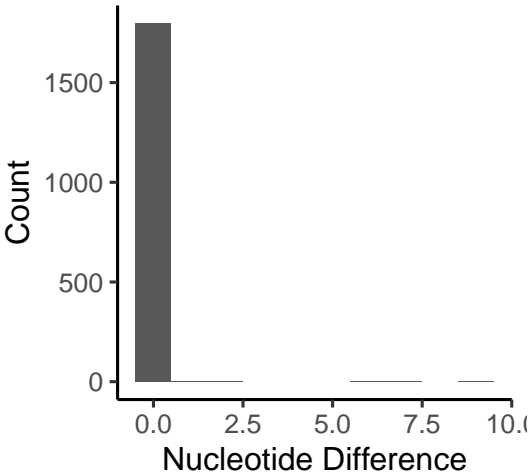


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



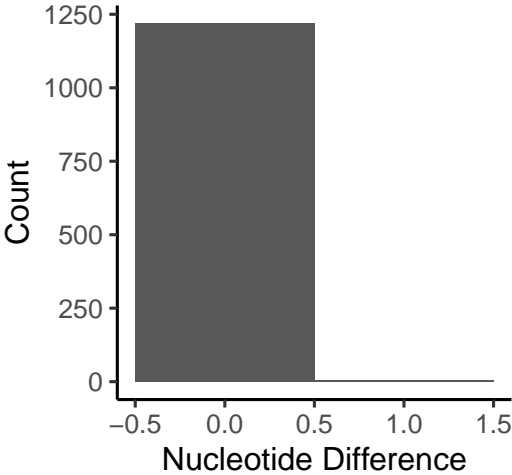
TRBV10-1\*ap01

1806 sequences assigned  
1797 (99.5%) exact matches, in which:  
1783 unique CDR3  
13 unique J



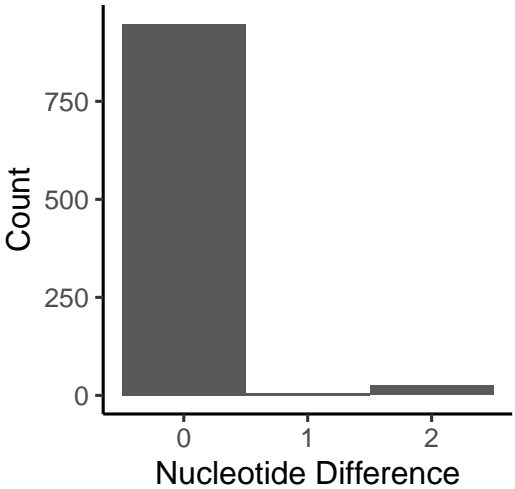
TRBV10-2\*ap01

1225 sequences assigned  
1219 (99.5%) exact matches, in which:  
1214 unique CDR3  
13 unique J



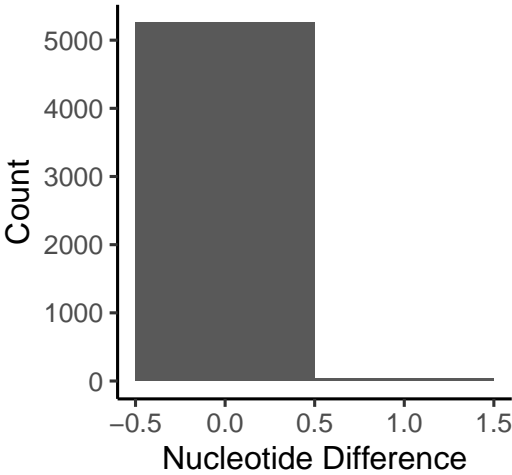
TRBV13\*ap01

979 sequences assigned  
948 (96.8%) exact matches, in which:  
939 unique CDR3  
13 unique J



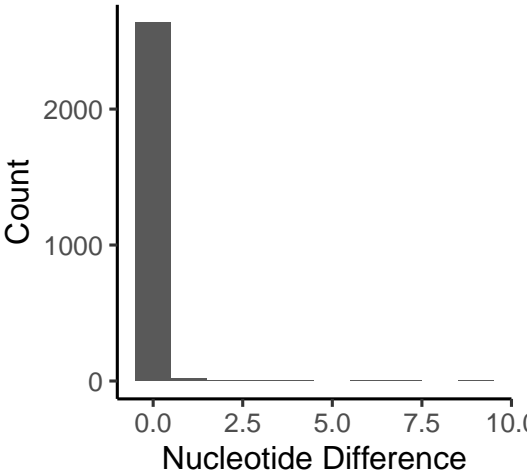
TRBV20-1\*ap01

5287 sequences assigned  
5256 (99.4%) exact matches, in which:  
5230 unique CDR3  
13 unique J



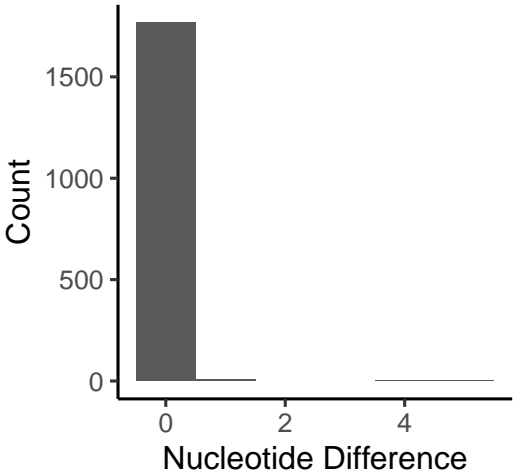
TRBV10-3\*ap01

2660 sequences assigned  
2635 (99.1%) exact matches, in which:  
2614 unique CDR3  
13 unique J



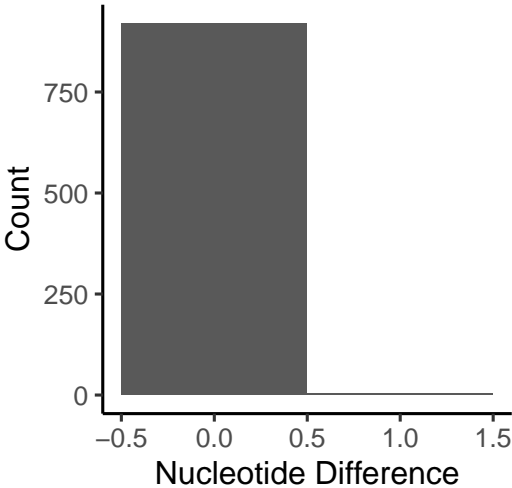
TRBV14\*ap01

1774 sequences assigned  
1767 (99.6%) exact matches, in which:  
1759 unique CDR3  
13 unique J



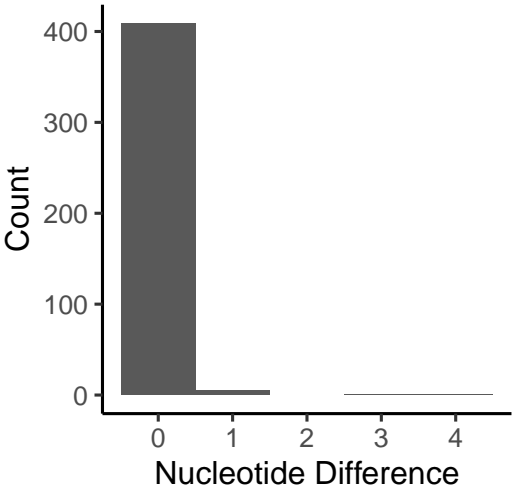
TRBV20-1\*ap02

924 sequences assigned  
920 (99.6%) exact matches, in which:  
911 unique CDR3  
13 unique J



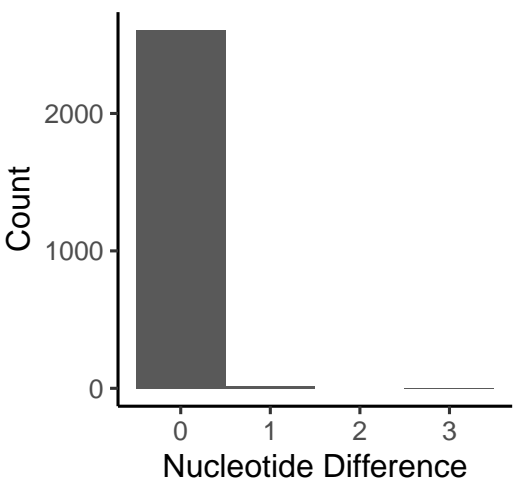
TRBV1\*ap01

416 sequences assigned  
409 (98.3%) exact matches, in which:  
405 unique CDR3  
13 unique J



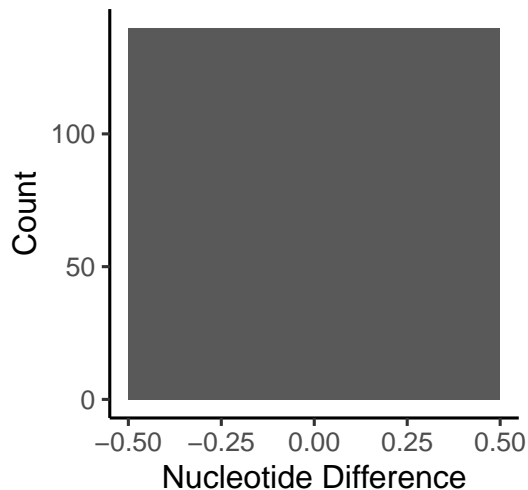
TRBV15\*ap02

2623 sequences assigned  
2607 (99.4%) exact matches, in which:  
2585 unique CDR3  
13 unique J



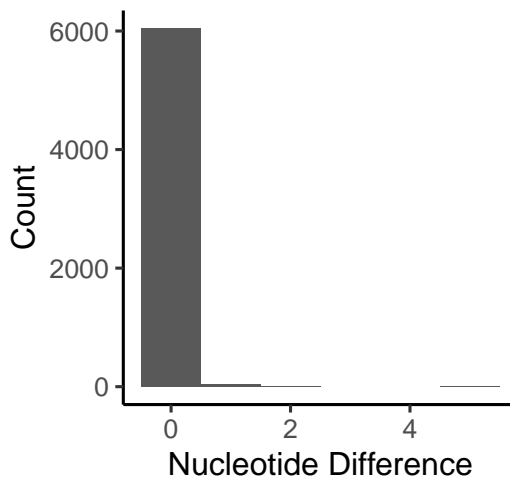
### TRBV16\*ap01

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



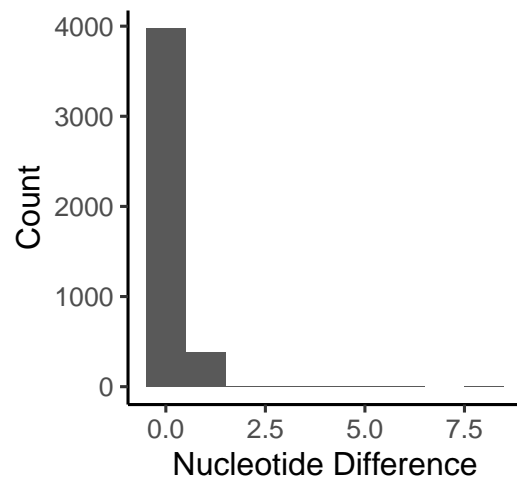
### TRBV2\*ap01

6085 sequences assigned  
6044 (99.3%) exact matches, in which:  
6007 unique CDR3  
13 unique J



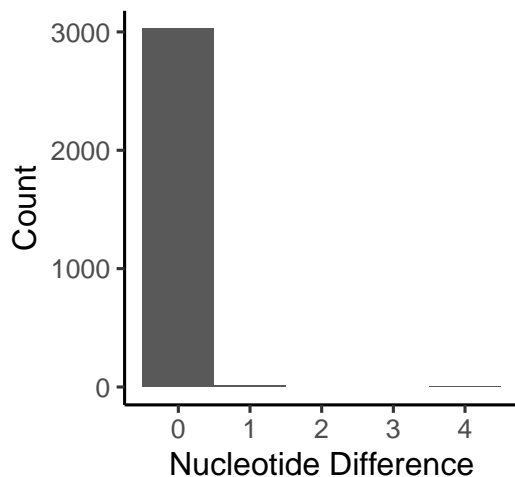
### TRBV30\*ap01

4367 sequences assigned  
3975 (91%) exact matches, in which:  
3921 unique CDR3  
13 unique J



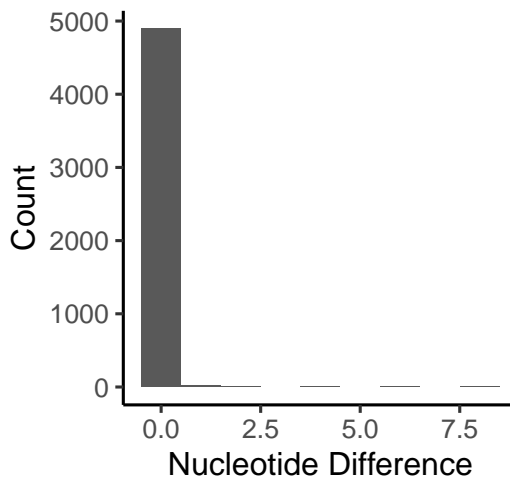
### TRBV18\*ap01

3039 sequences assigned  
3027 (99.6%) exact matches, in which:  
3014 unique CDR3  
13 unique J



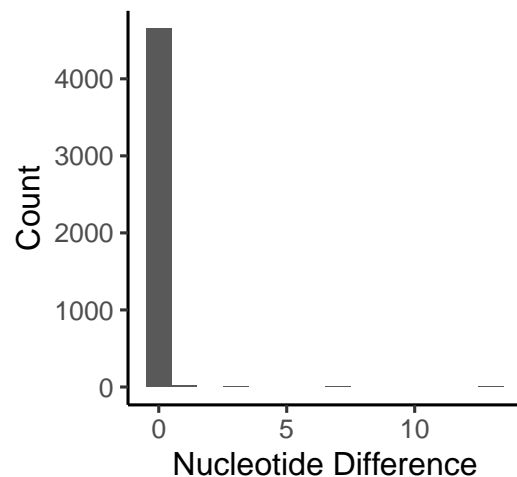
### TRBV27\*ap01

4928 sequences assigned  
4895 (99.3%) exact matches, in which:  
4862 unique CDR3  
13 unique J



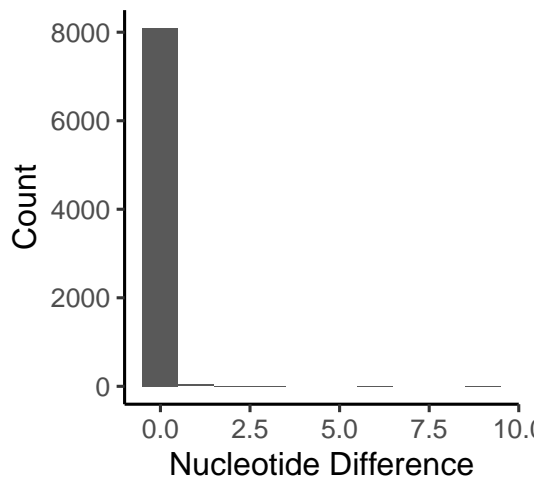
### TRBV9\*ap01

4674 sequences assigned  
4650 (99.5%) exact matches, in which:  
4628 unique CDR3  
13 unique J



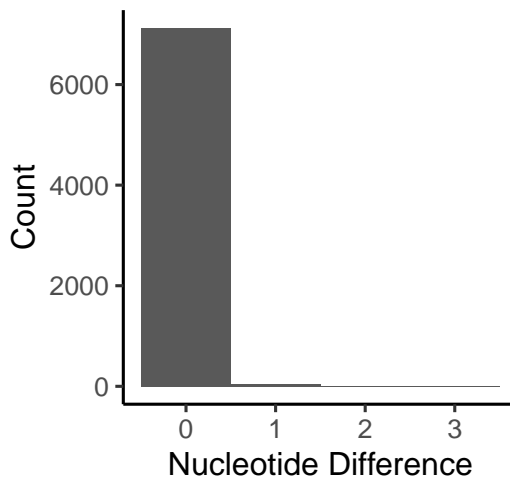
### TRBV19\*ap01

8141 sequences assigned  
8094 (99.4%) exact matches, in which:  
8066 unique CDR3  
13 unique J



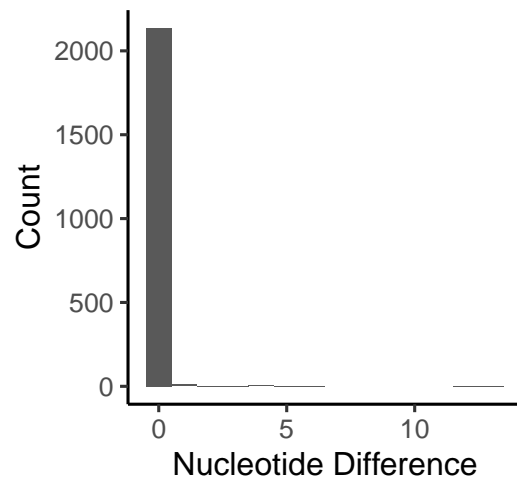
### TRBV28\*ap01

7175 sequences assigned  
7124 (99.3%) exact matches, in which:  
7082 unique CDR3  
13 unique J



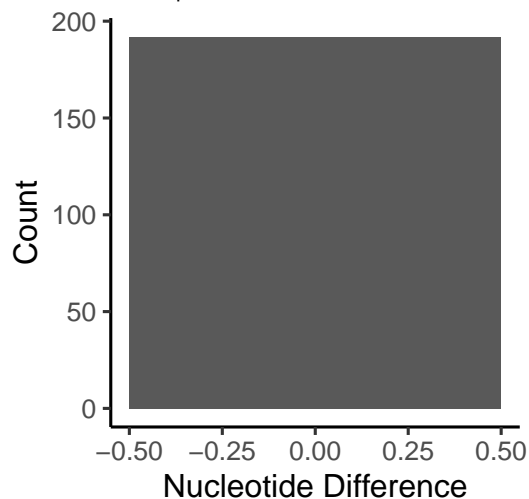
### TRBV21-1\*ap01

2161 sequences assigned  
2136 (98.8%) exact matches, in which:  
2128 unique CDR3  
13 unique J



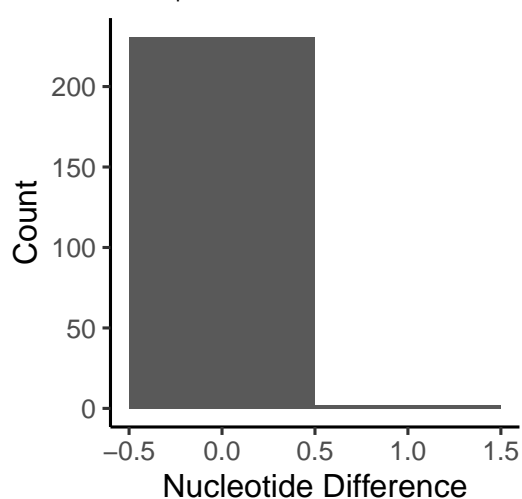
### TRBV11-1\*ap01

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



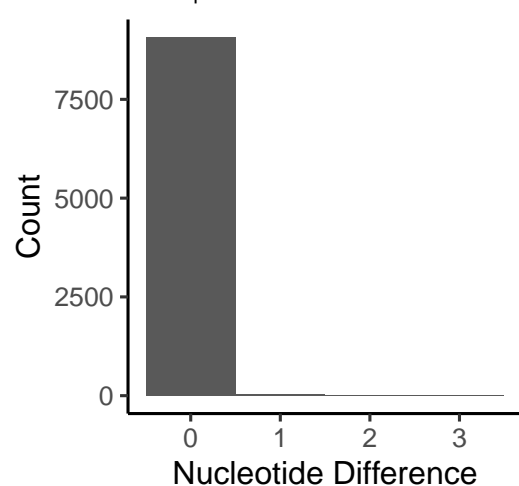
### TRBV12-1\*ap01

233 sequences assigned  
231 (99.1%) exact matches, in which:  
230 unique CDR3  
13 unique J



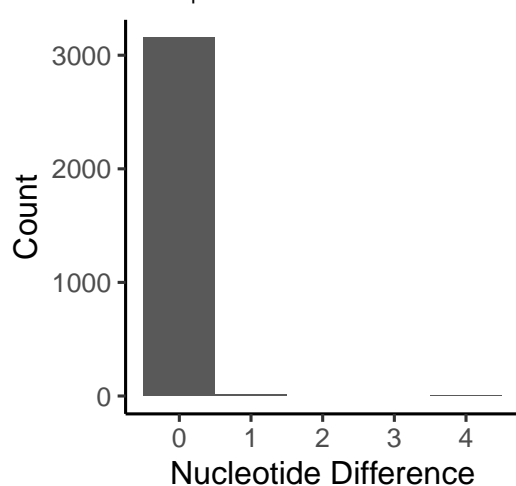
### TRBV12-34\*ap01

9122 sequences assigned  
9068 (99.4%) exact matches, in which:  
9007 unique CDR3  
13 unique J



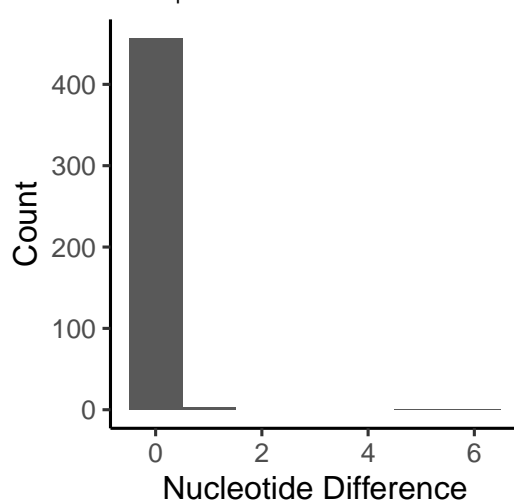
### TRBV11-2\*ap01

3165 sequences assigned  
3154 (99.7%) exact matches, in which:  
3141 unique CDR3  
13 unique J



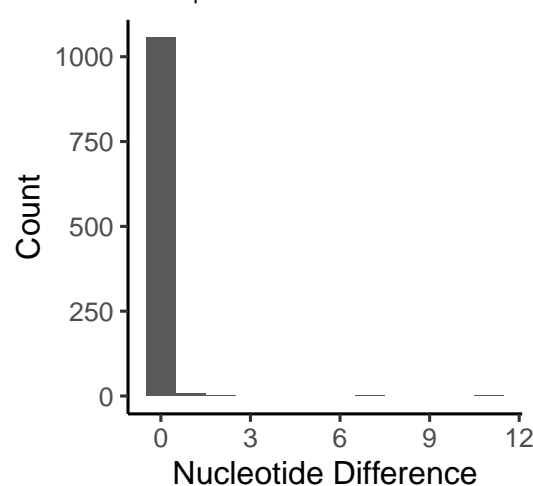
### TRBV12-2\*ap01

462 sequences assigned  
457 (98.9%) exact matches, in which:  
454 unique CDR3  
13 unique J



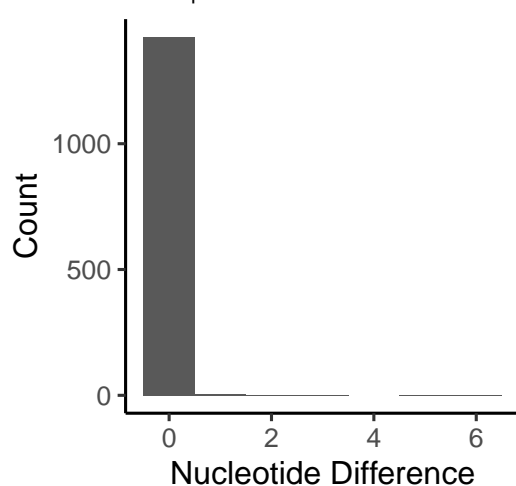
### TRBV23-1\*ap01

1066 sequences assigned  
1056 (99.1%) exact matches, in which:  
1052 unique CDR3  
13 unique J



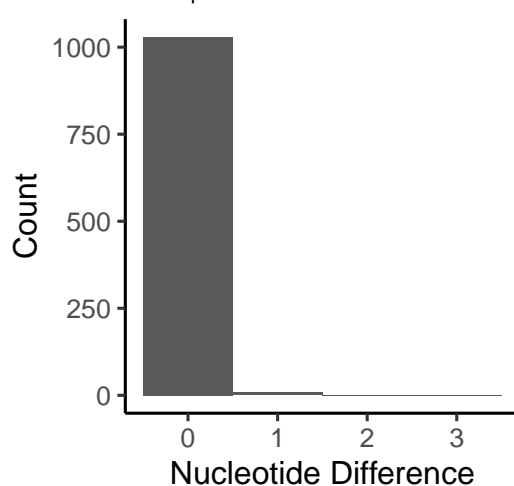
### TRBV11-3\*ap01

1435 sequences assigned  
1424 (99.2%) exact matches, in which:  
1421 unique CDR3  
13 unique J



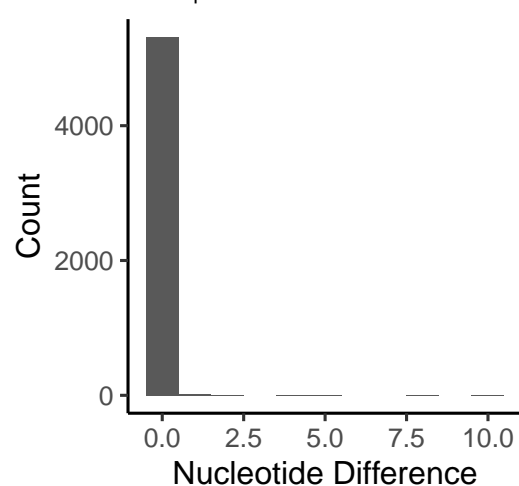
### TRBV12-5\*ap01

1039 sequences assigned  
1029 (99%) exact matches, in which:  
1026 unique CDR3  
13 unique J



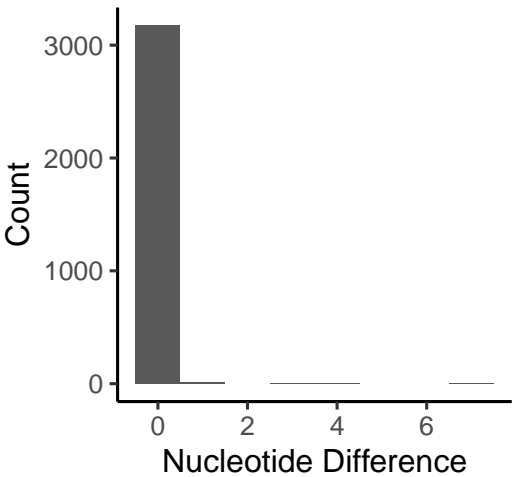
### TRBV3-12\*ap01

5340 sequences assigned  
5315 (99.5%) exact matches, in which:  
5292 unique CDR3  
13 unique J



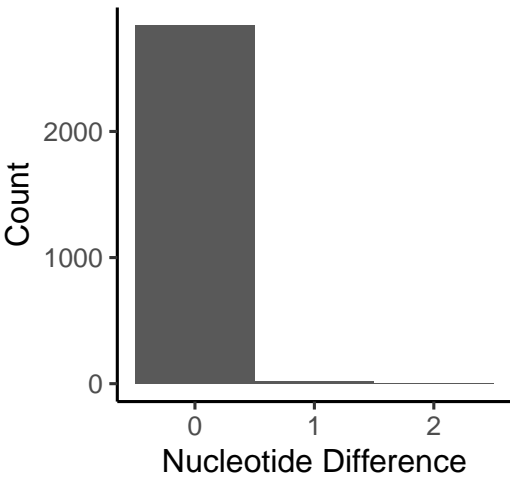
TRBV4-1\*ap01

3189 sequences assigned  
3175 (99.6%) exact matches, in which:  
3127 unique CDR3  
13 unique J



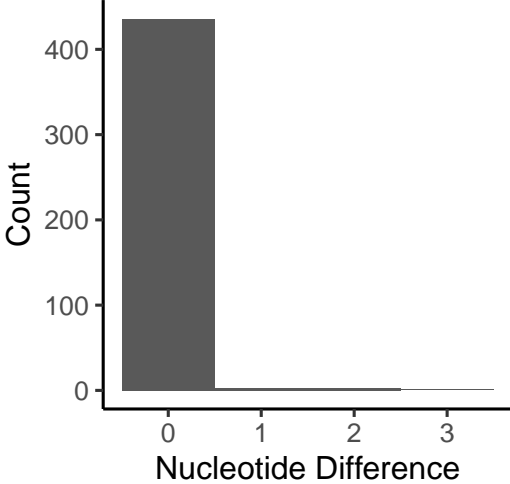
TRBV4-3\*ap01

2863 sequences assigned  
2841 (99.2%) exact matches, in which:  
2824 unique CDR3  
13 unique J



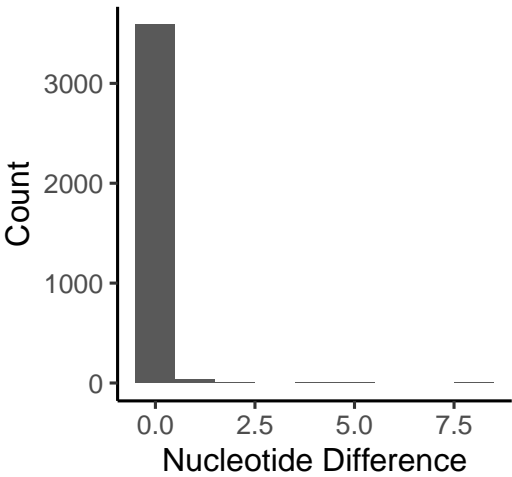
TRBV5-3\*ap01

443 sequences assigned  
436 (98.4%) exact matches, in which:  
435 unique CDR3  
13 unique J



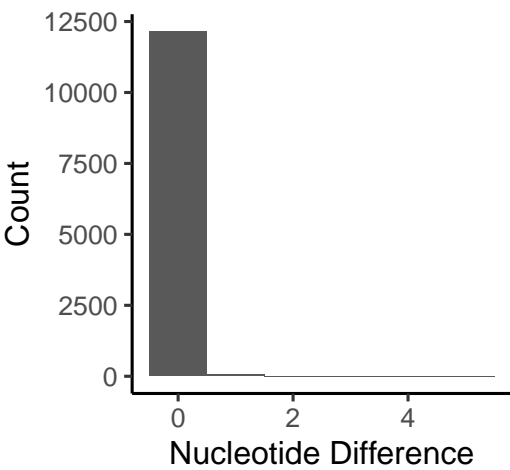
TRBV24-1\*ap01

3627 sequences assigned  
3587 (98.9%) exact matches, in which:  
3559 unique CDR3  
13 unique J



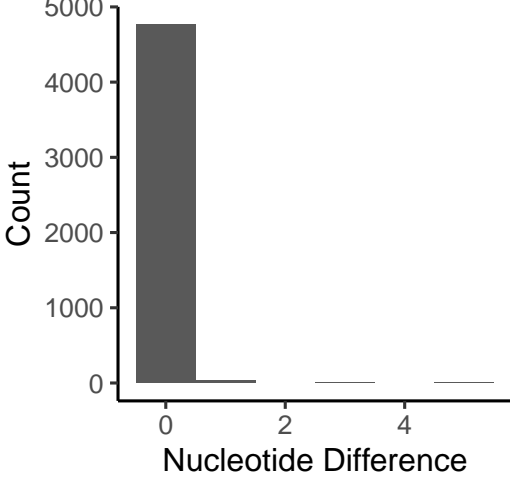
TRBV5-1\*ap01

12222 sequences assigned  
12150 (99.4%) exact matches, in which:  
12041 unique CDR3  
13 unique J



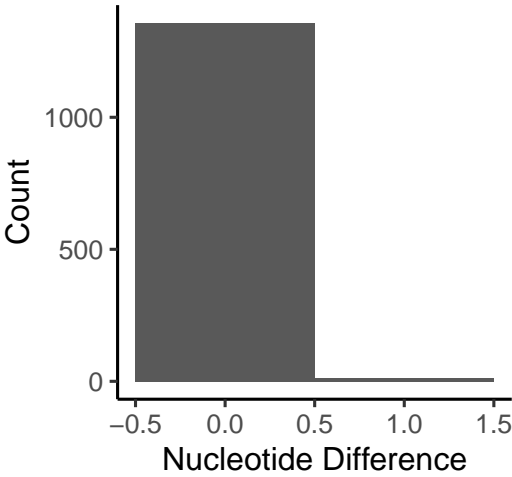
TRBV5-4\*ap01

4797 sequences assigned  
4763 (99.3%) exact matches, in which:  
4710 unique CDR3  
13 unique J



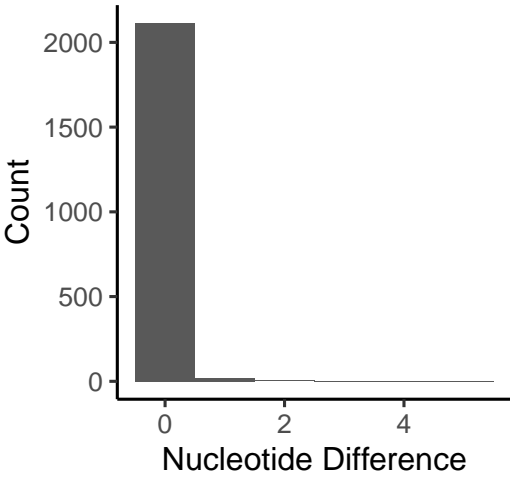
TRBV4-2\*ap01

1370 sequences assigned  
1357 (99.1%) exact matches, in which:  
1344 unique CDR3  
13 unique J



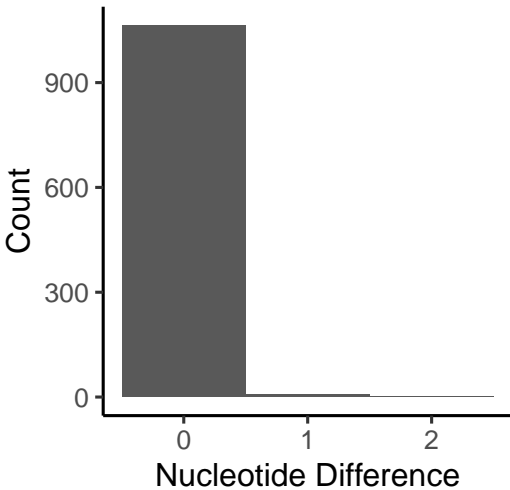
TRBV25-1\*ap01

2140 sequences assigned  
2114 (98.8%) exact matches, in which:  
2087 unique CDR3  
13 unique J



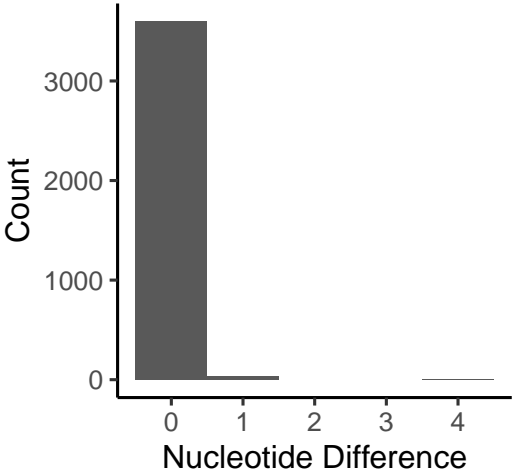
TRBV5-5\*ap01

1072 sequences assigned  
1064 (99.3%) exact matches, in which:  
1058 unique CDR3  
13 unique J



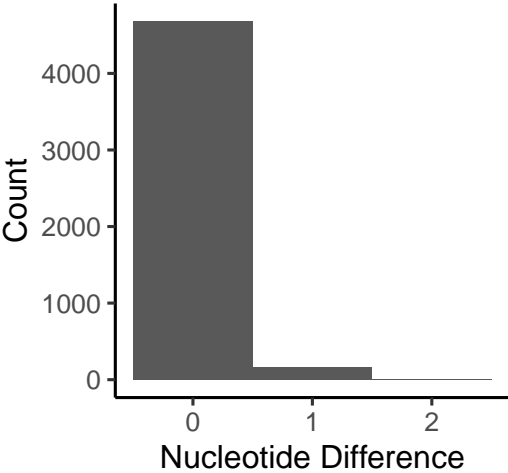
TRBV5-6\*ap01

3630 sequences assigned  
3598 (99.1%) exact matches, in which:  
3542 unique CDR3  
13 unique J



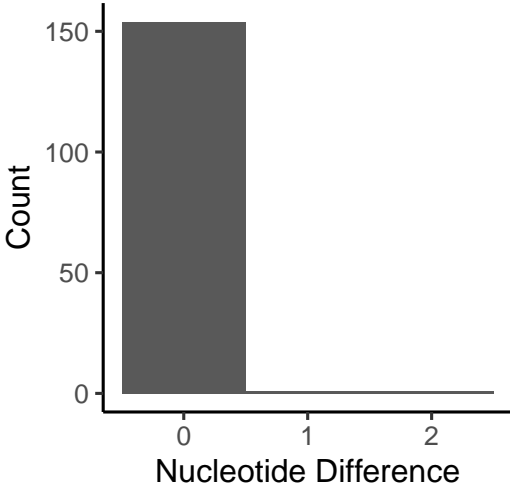
TRBV6-1\*ap01

4849 sequences assigned  
4679 (96.5%) exact matches, in which:  
4614 unique CDR3  
14 unique J



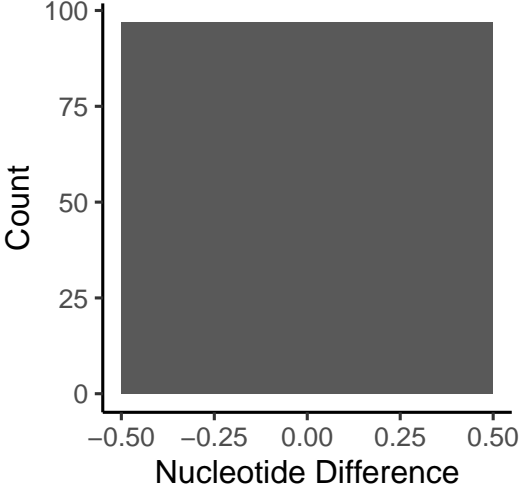
TRBV6-8\*ap01

156 sequences assigned  
154 (98.7%) exact matches, in which:  
153 unique CDR3  
13 unique J



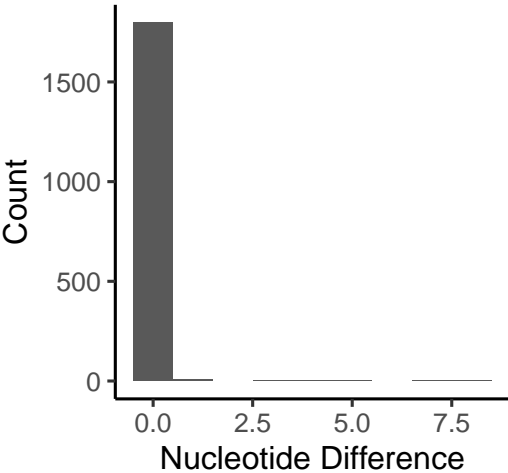
TRBV5-7\*ap01

97 sequences assigned  
97 (100%) exact matches, in which:  
96 unique CDR3  
13 unique J



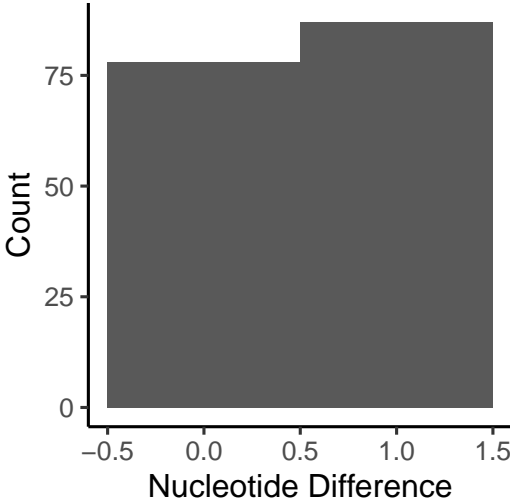
TRBV6-4\*ap01

1812 sequences assigned  
1797 (99.2%) exact matches, in which:  
1792 unique CDR3  
13 unique J



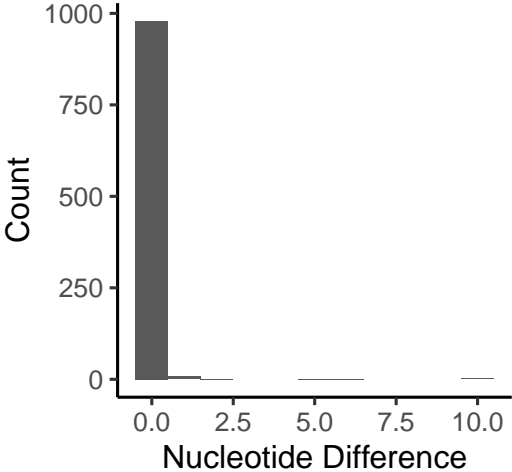
TRBV6-9\*ap01

165 sequences assigned  
78 (47.3%) exact matches, in which:  
77 unique CDR3  
13 unique J



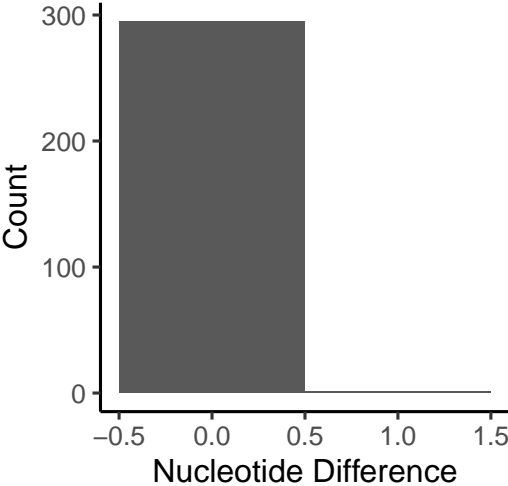
TRBV5-8\*ap01

992 sequences assigned  
979 (98.7%) exact matches, in which:  
976 unique CDR3  
13 unique J



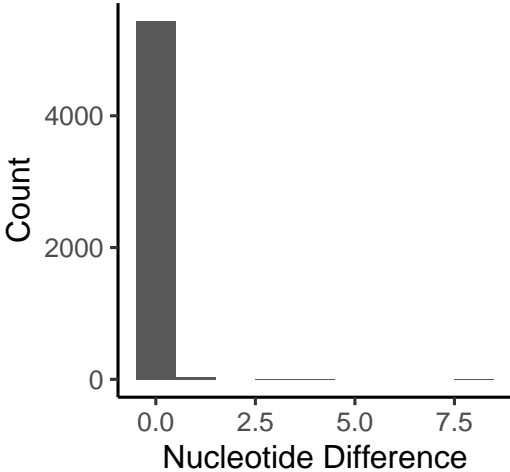
TRBV6-7\*ap01

296 sequences assigned  
295 (99.7%) exact matches, in which:  
295 unique CDR3  
13 unique J



TRBV6-23\*ap01

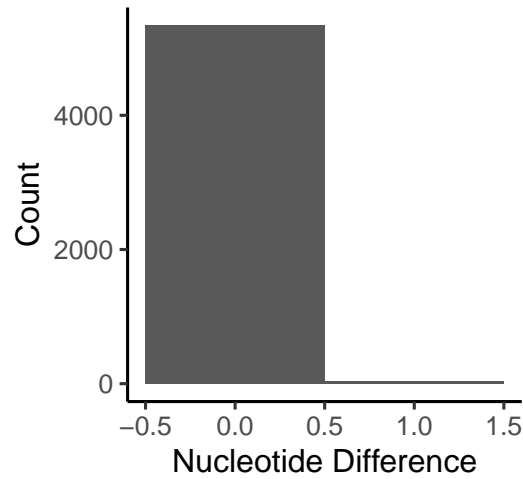
5479 sequences assigned  
5438 (99.3%) exact matches, in which:  
5372 unique CDR3  
13 unique J





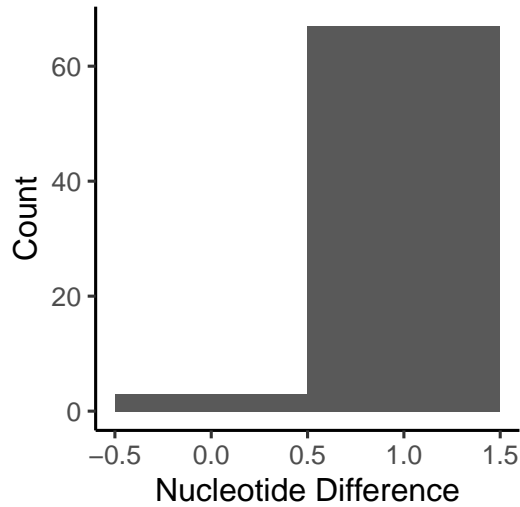
### TRBV6-56\*ap01

5372 sequences assigned  
5340 (99.4%) exact matches, in which:  
5268 unique CDR3  
13 unique J



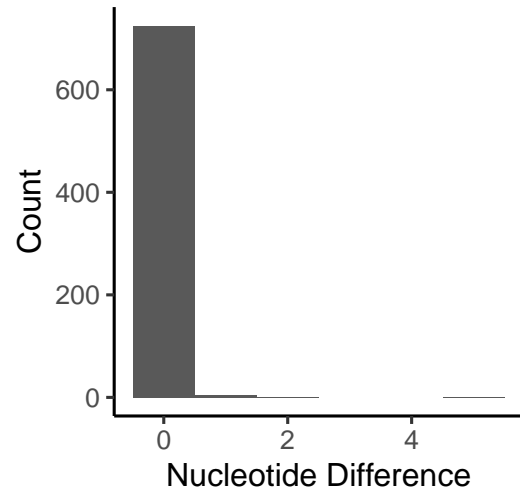
### TRBV7-1\*ap01\_T296C\_C

70 sequences assigned  
3 (4.3%) exact matches, in which:  
3 unique CDR3  
3 unique J



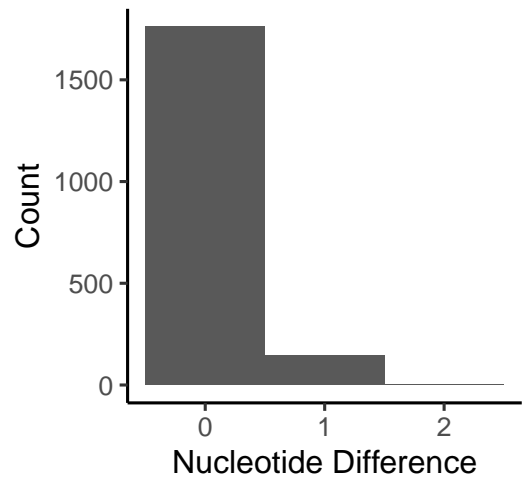
### TRBV7-3\*ap03

732 sequences assigned  
725 (99%) exact matches, in which:  
721 unique CDR3  
13 unique J



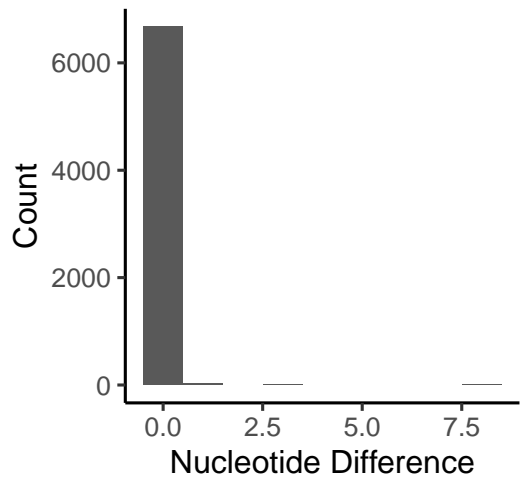
### TRBV6-56\*ap02

1905 sequences assigned  
1761 (92.4%) exact matches, in which:  
1741 unique CDR3  
13 unique J



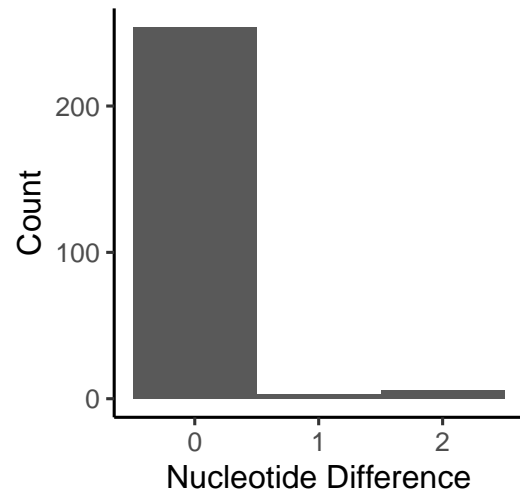
### TRBV7-2\*ap01

6702 sequences assigned  
6673 (99.6%) exact matches, in which:  
6640 unique CDR3  
13 unique J



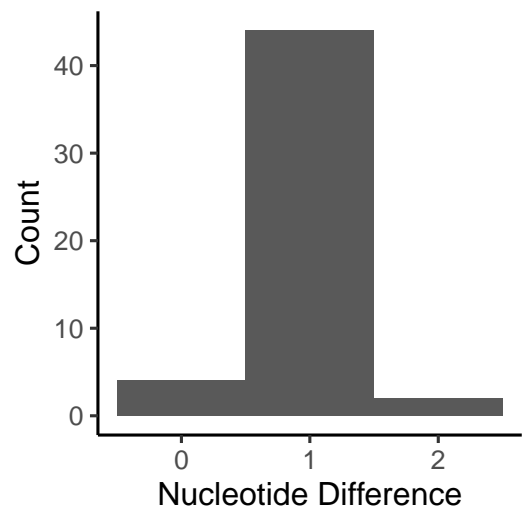
### TRBV7-4\*ap01

263 sequences assigned  
254 (96.6%) exact matches, in which:  
253 unique CDR3  
13 unique J



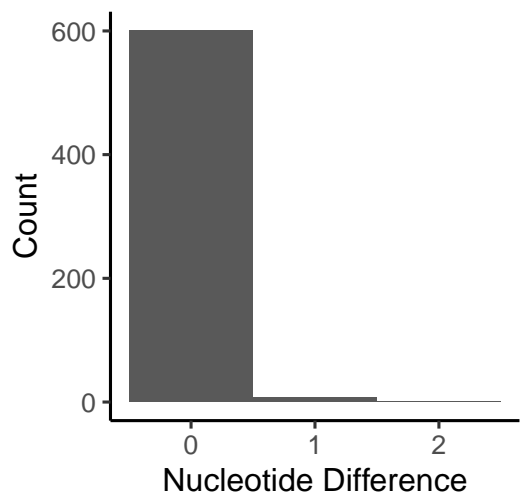
### TRBV7-1\*ap01\_T296C

50 sequences assigned  
4 (8%) exact matches, in which:  
4 unique CDR3  
3 unique J



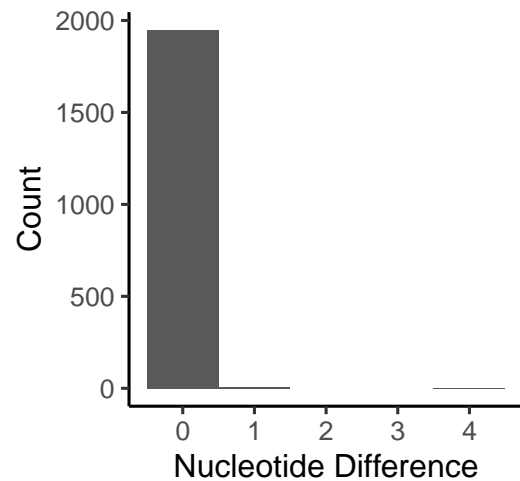
### TRBV7-3\*ap02

610 sequences assigned  
601 (98.5%) exact matches, in which:  
597 unique CDR3  
13 unique J



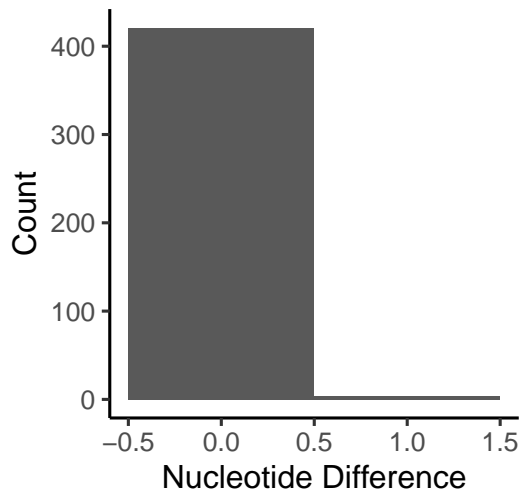
### TRBV7-6\*ap01

1957 sequences assigned  
1948 (99.5%) exact matches, in which:  
1932 unique CDR3  
13 unique J



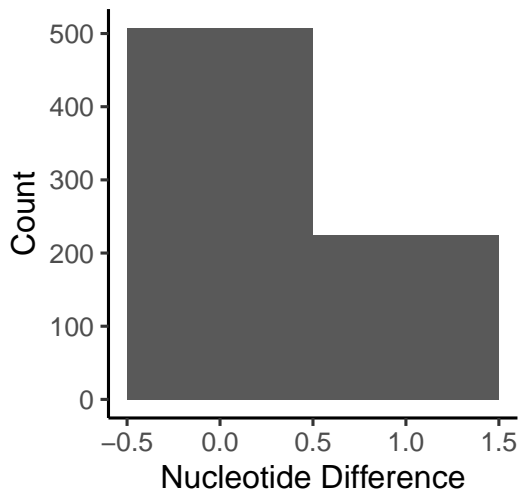
### TRBV7-7\*ap01

425 sequences assigned  
421 (99.1%) exact matches, in which:  
417 unique CDR3  
13 unique J



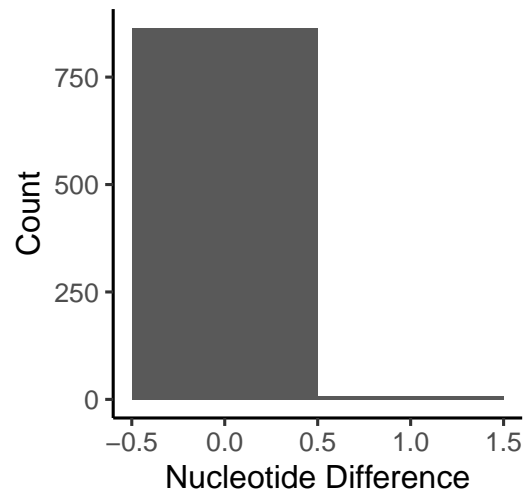
### TRBV7-8\*ap03

733 sequences assigned  
508 (69.3%) exact matches, in which:  
507 unique CDR3  
13 unique J



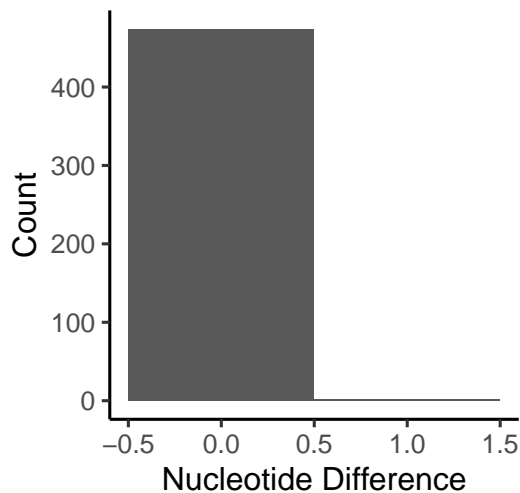
### TRBV29-1\*ap02

872 sequences assigned  
865 (99.2%) exact matches, in which:  
857 unique CDR3  
13 unique J



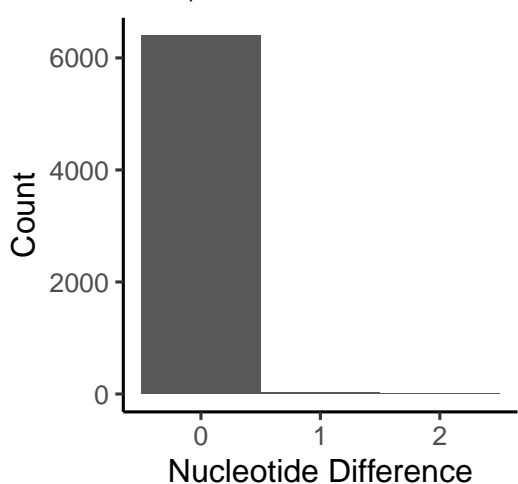
### TRBV7-7\*ap01\_C315T

476 sequences assigned  
474 (99.6%) exact matches, in which:  
470 unique CDR3  
13 unique J



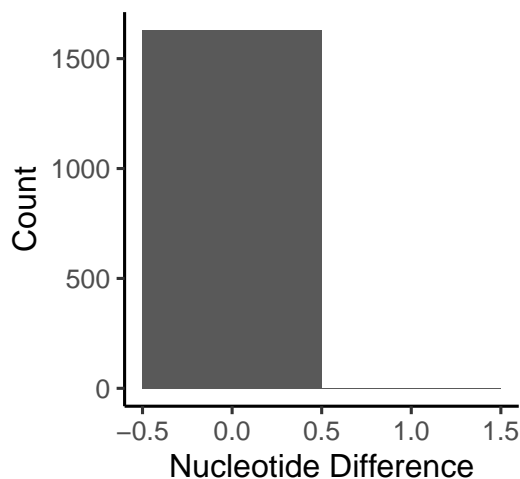
### TRBV7-9\*ap01

6422 sequences assigned  
6396 (99.6%) exact matches, in which:  
6360 unique CDR3  
13 unique J



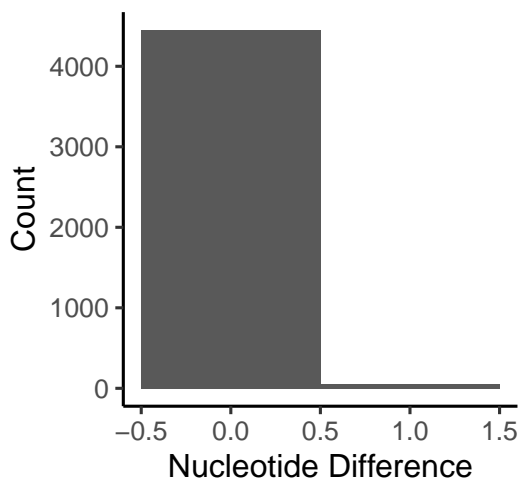
### TRBV7-8\*ap01

1631 sequences assigned  
1630 (99.9%) exact matches, in which:  
1615 unique CDR3  
13 unique J

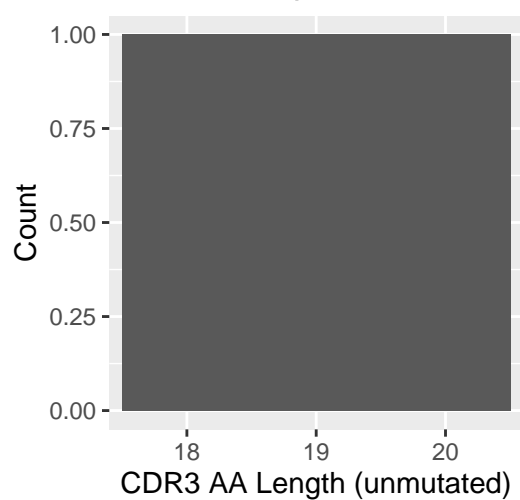


### TRBV29-1\*ap01

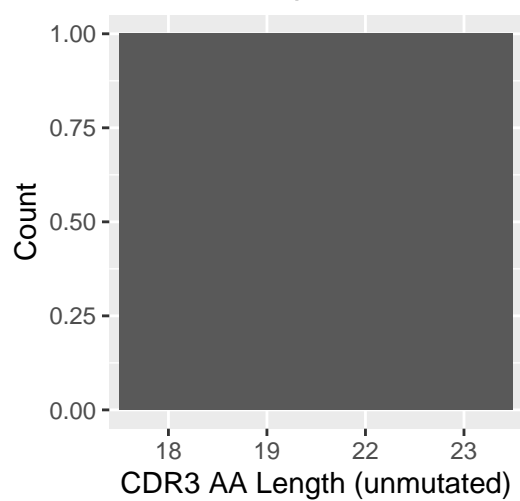
4500 sequences assigned  
4450 (98.9%) exact matches, in which:  
4370 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T

