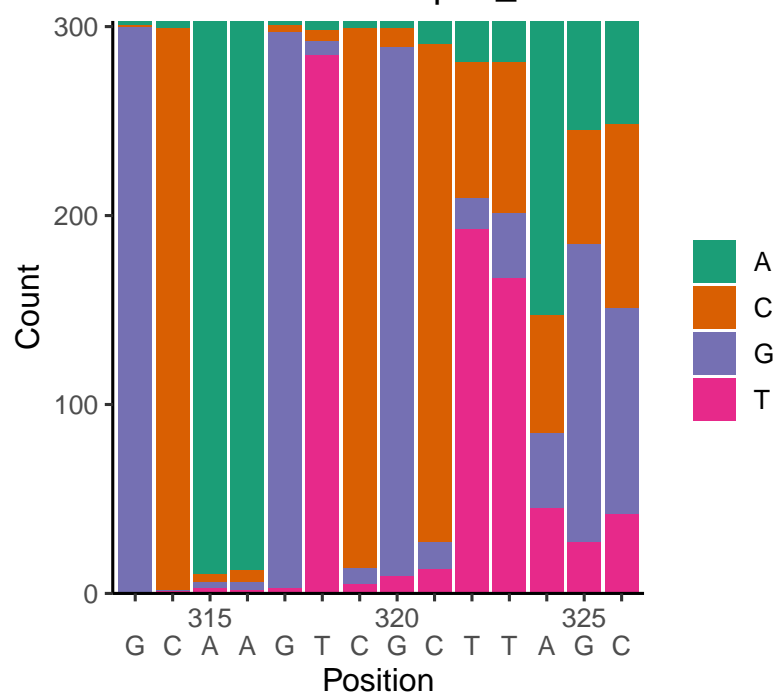
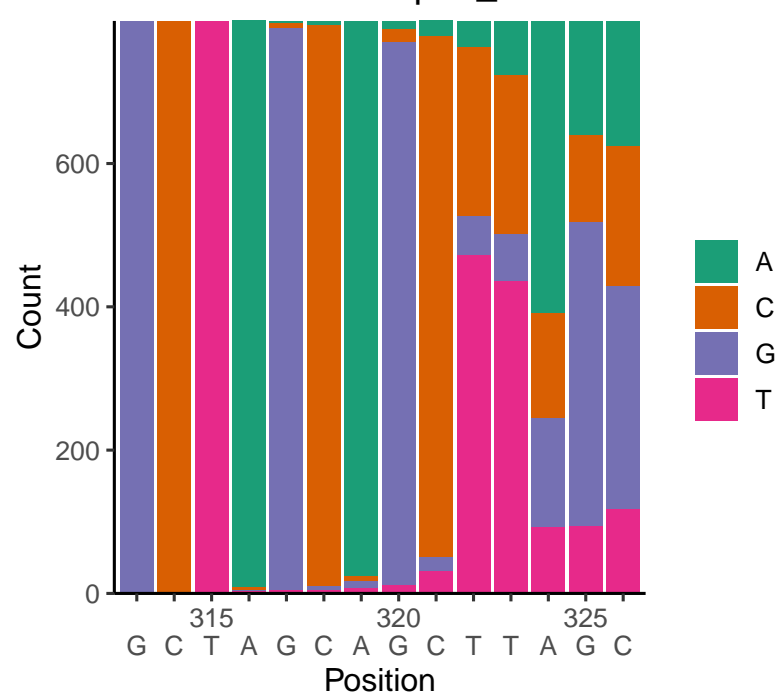


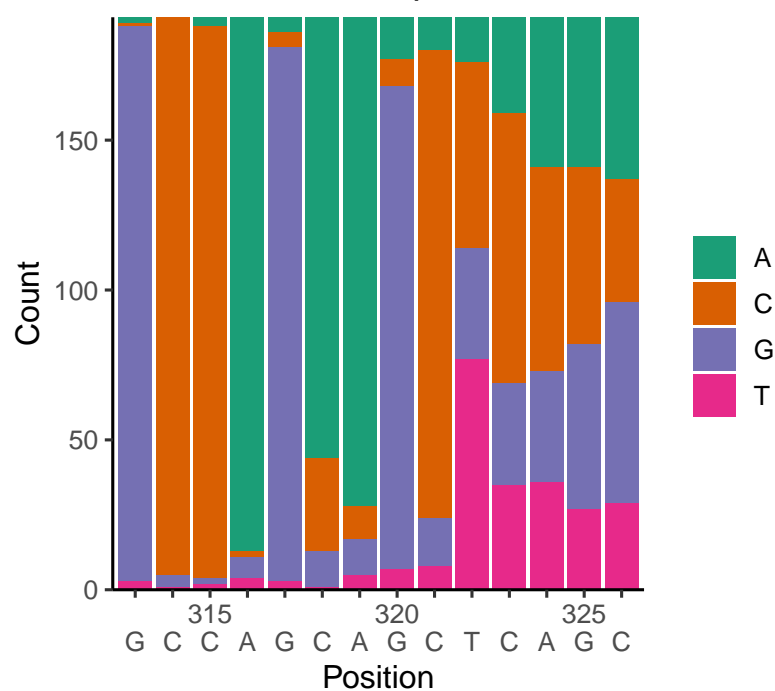
Gene TRBV12-2\*ap01\_G301A



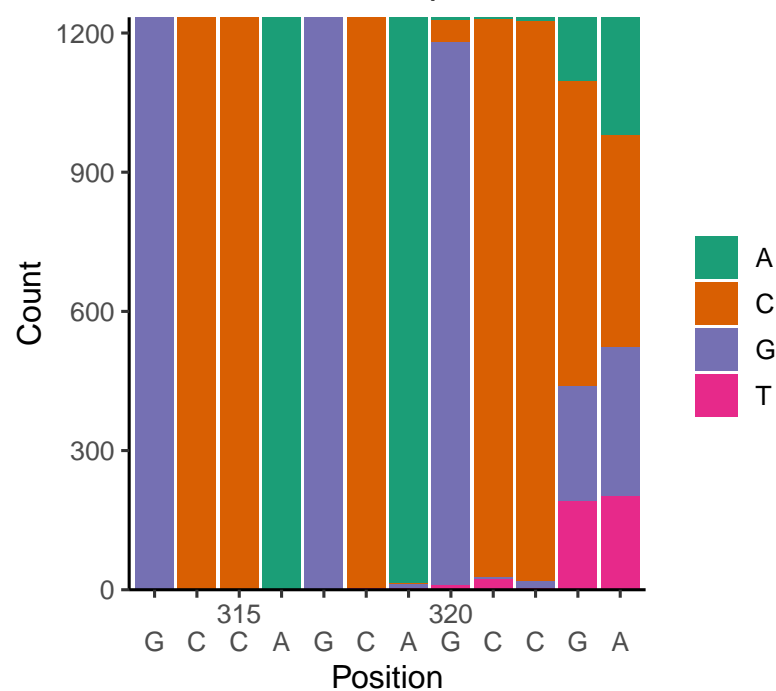
Gene TRBV7-7\*ap01\_C315T



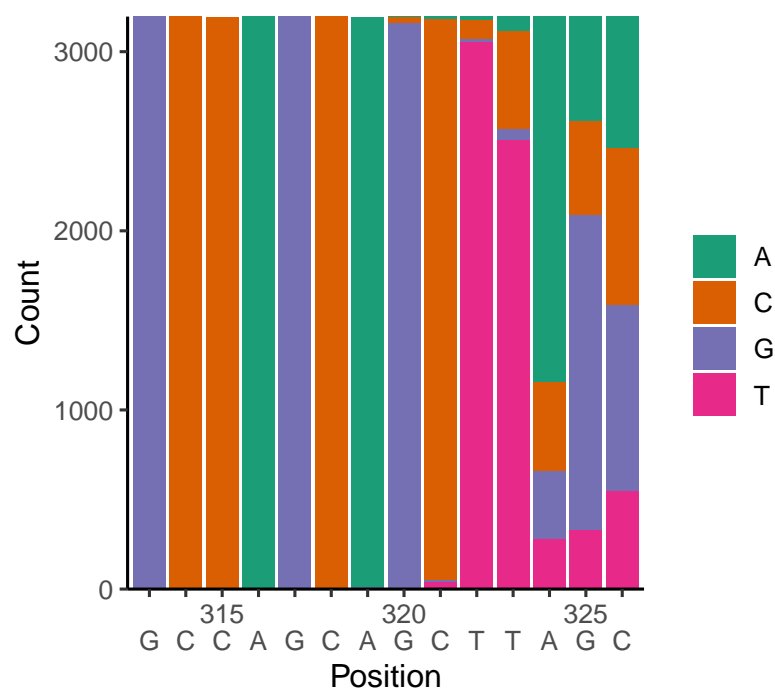
Gene TRBV7-1\*ap01\_T296C



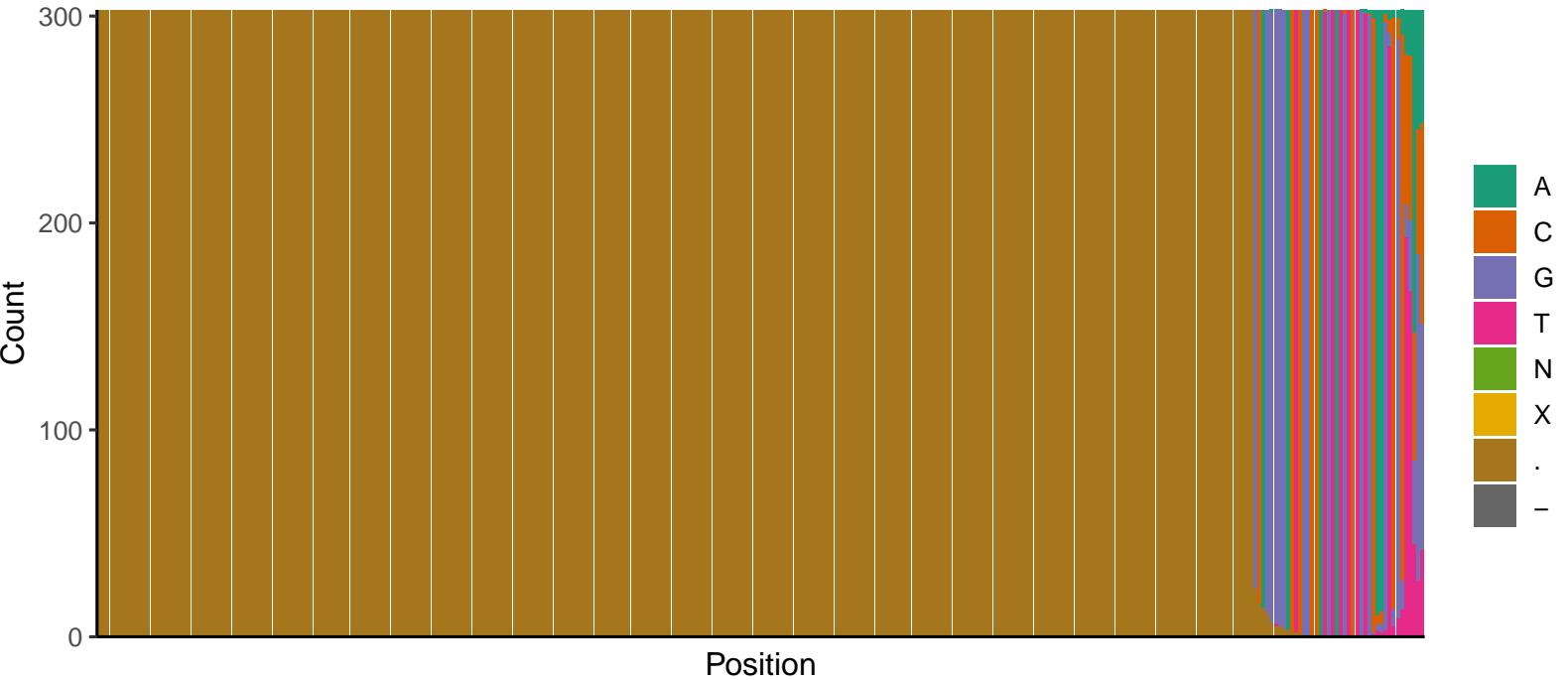
Gene TRBV7-8\*ap03\_C297A



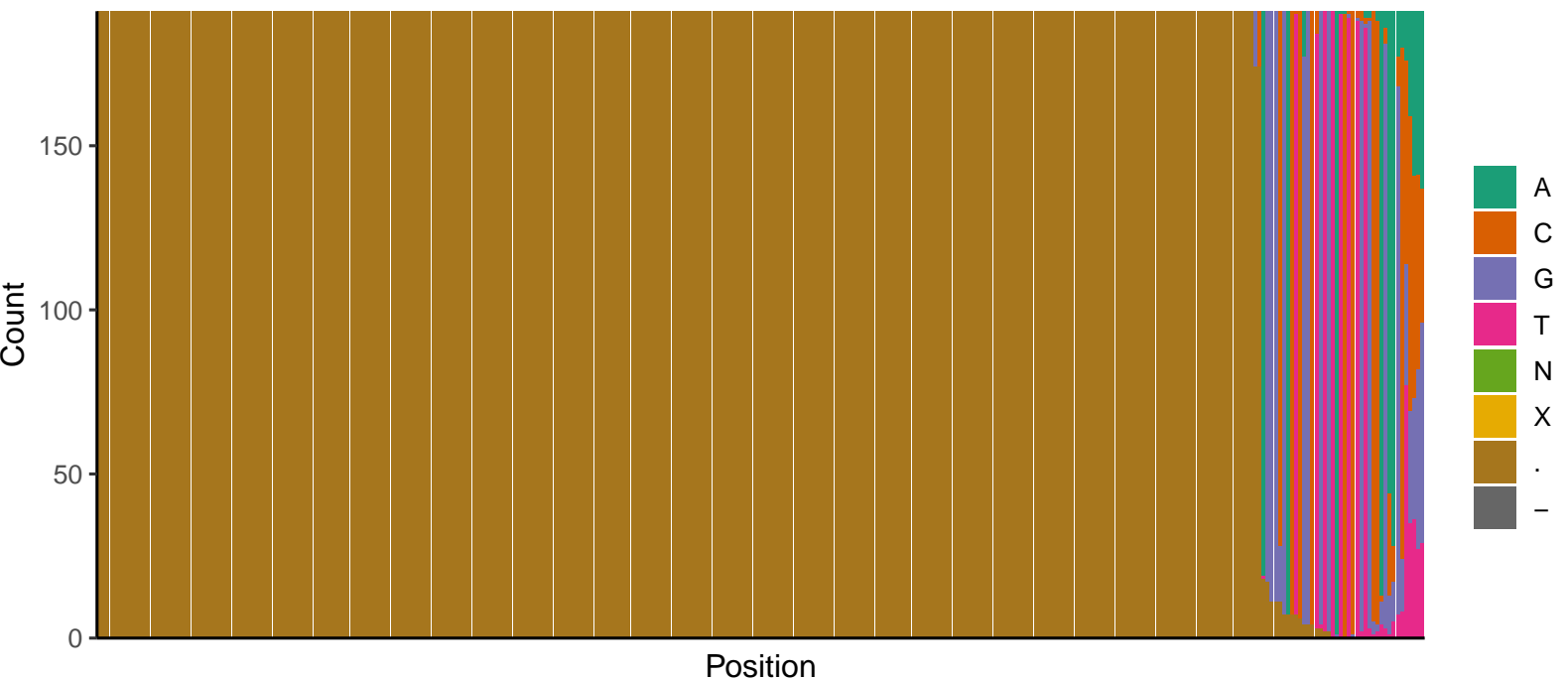
Gene TRBV7-2\*ap01\_G297A



Gene TRBV12-2\*ap01\_G301A



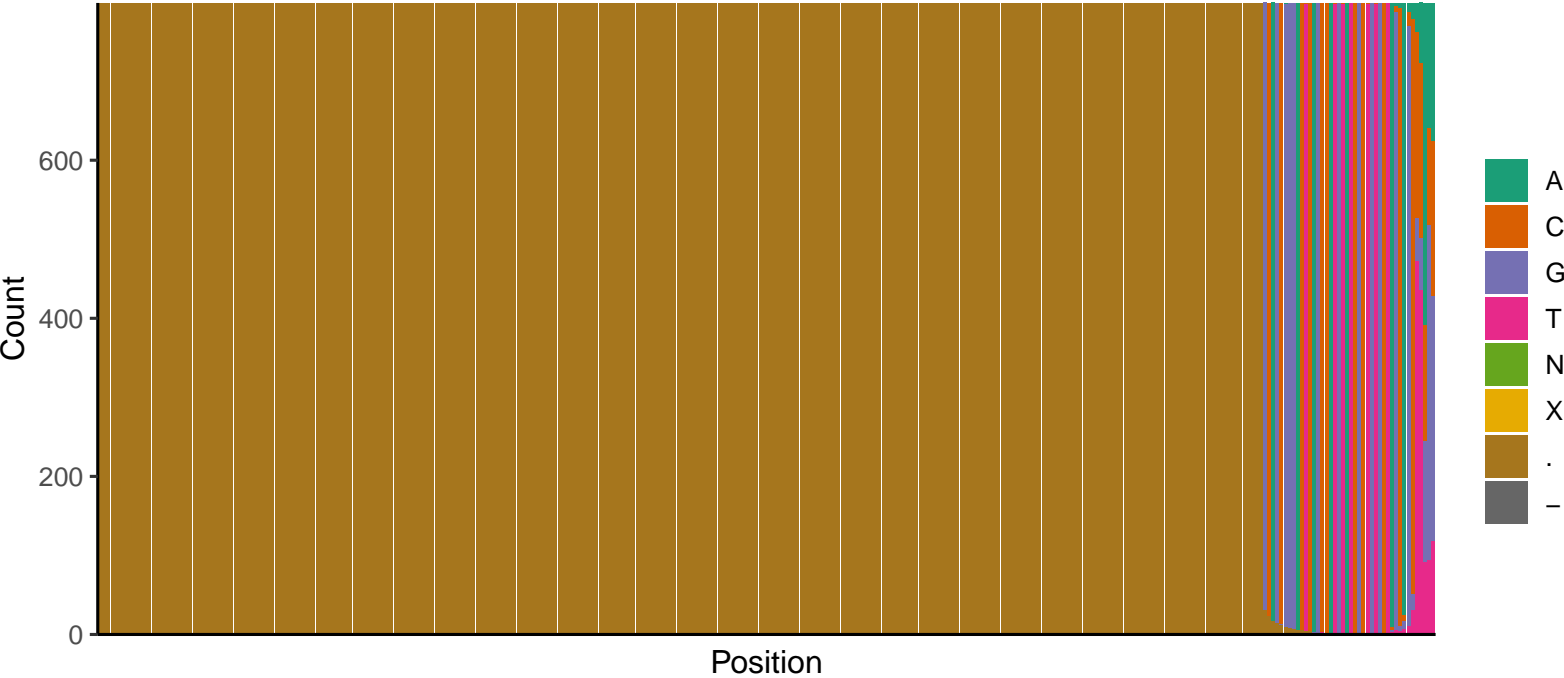
Gene TRBV7-1\*ap01\_T296C



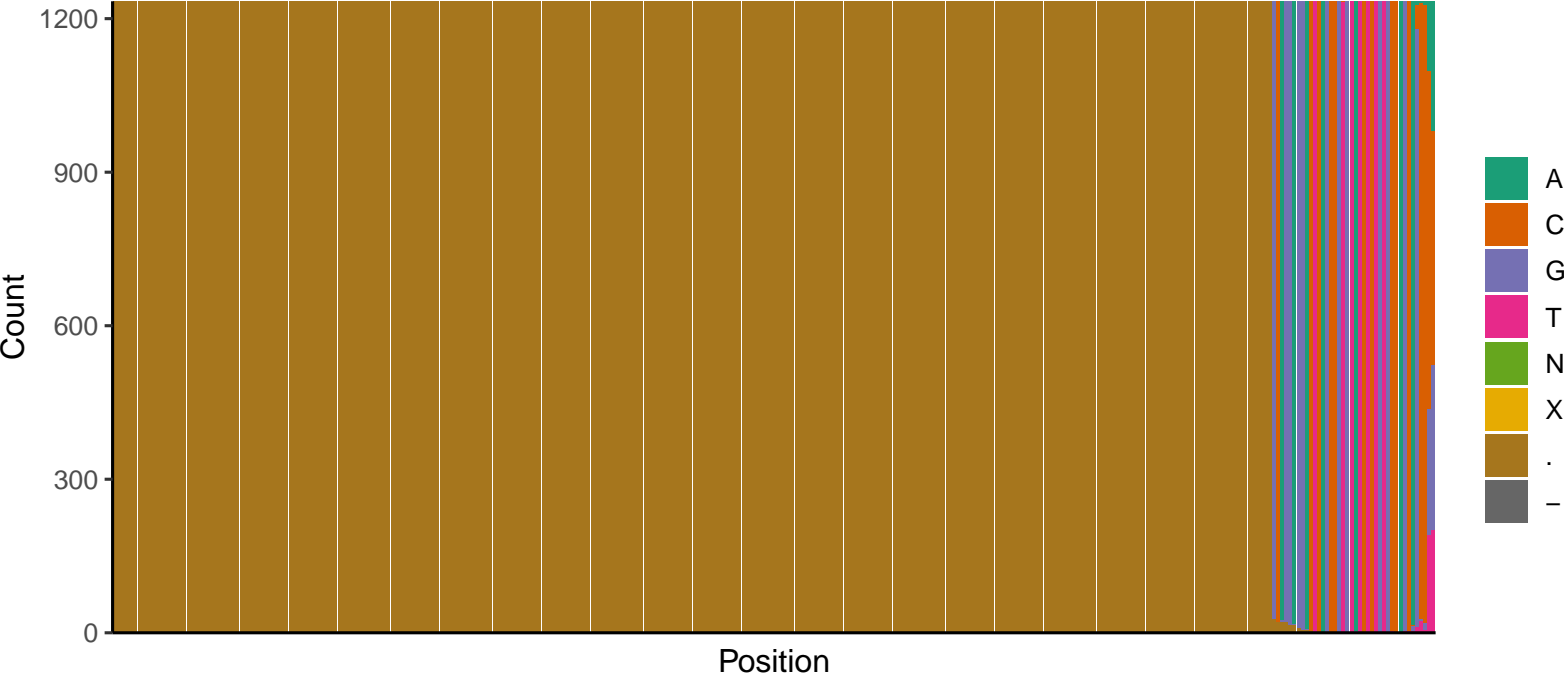
Gene TRBV7-2\*ap01\_G297A



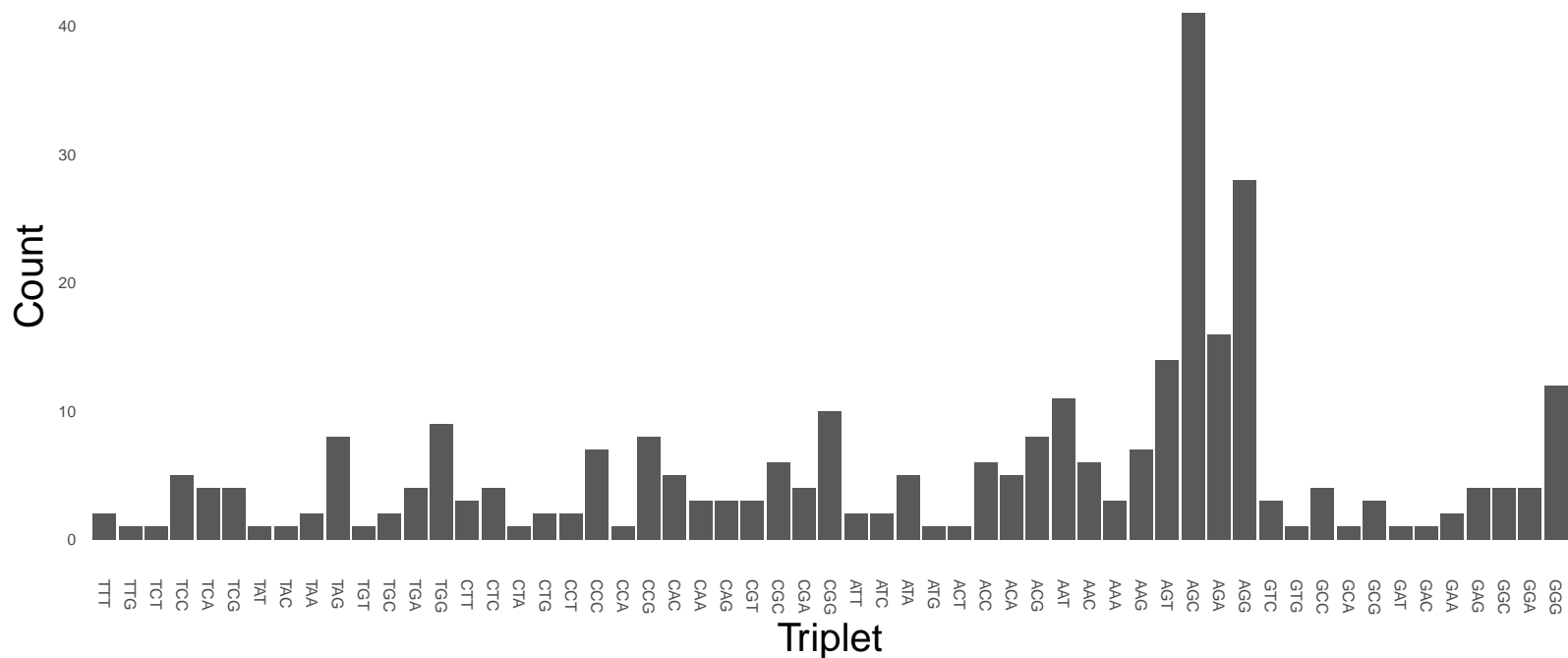
Gene TRBV7-7\*ap01\_C315T



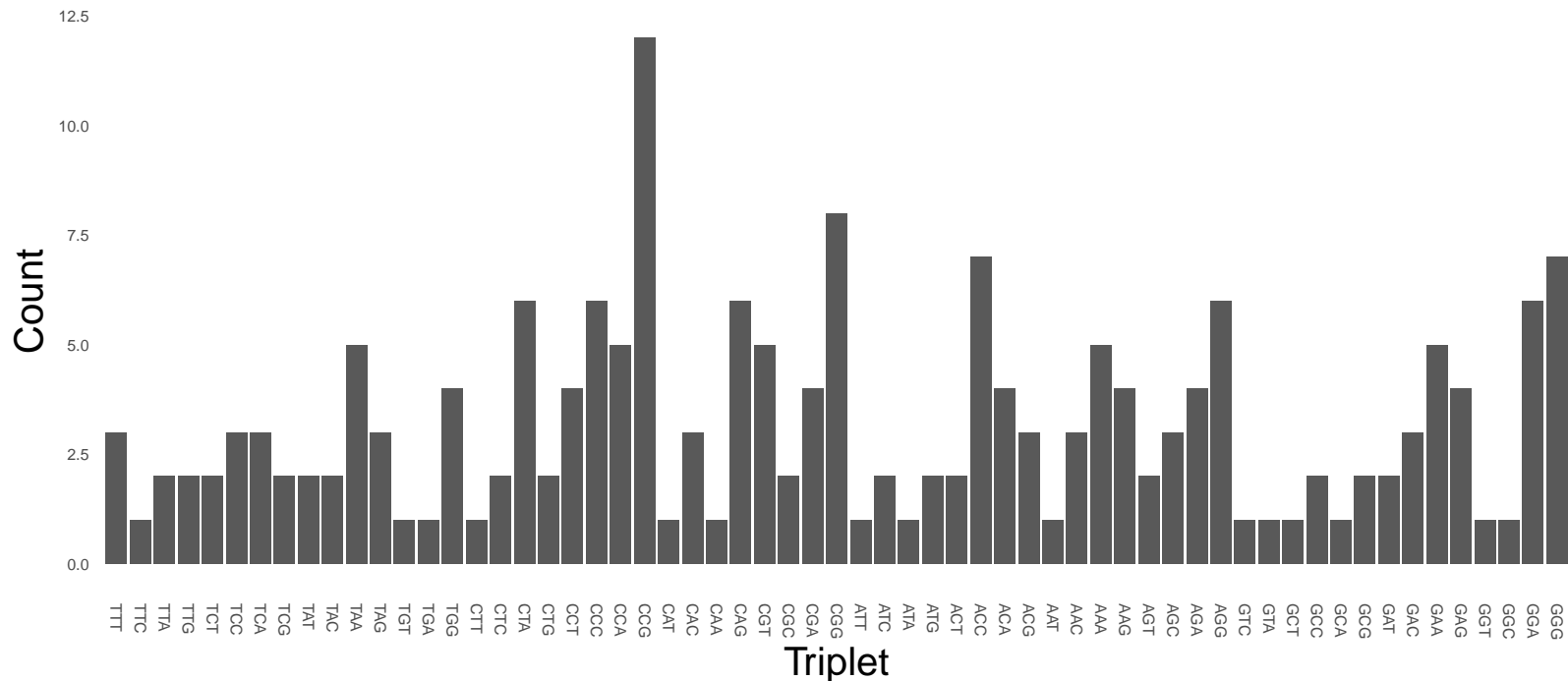
Gene TRBV7-8\*ap03\_C297A



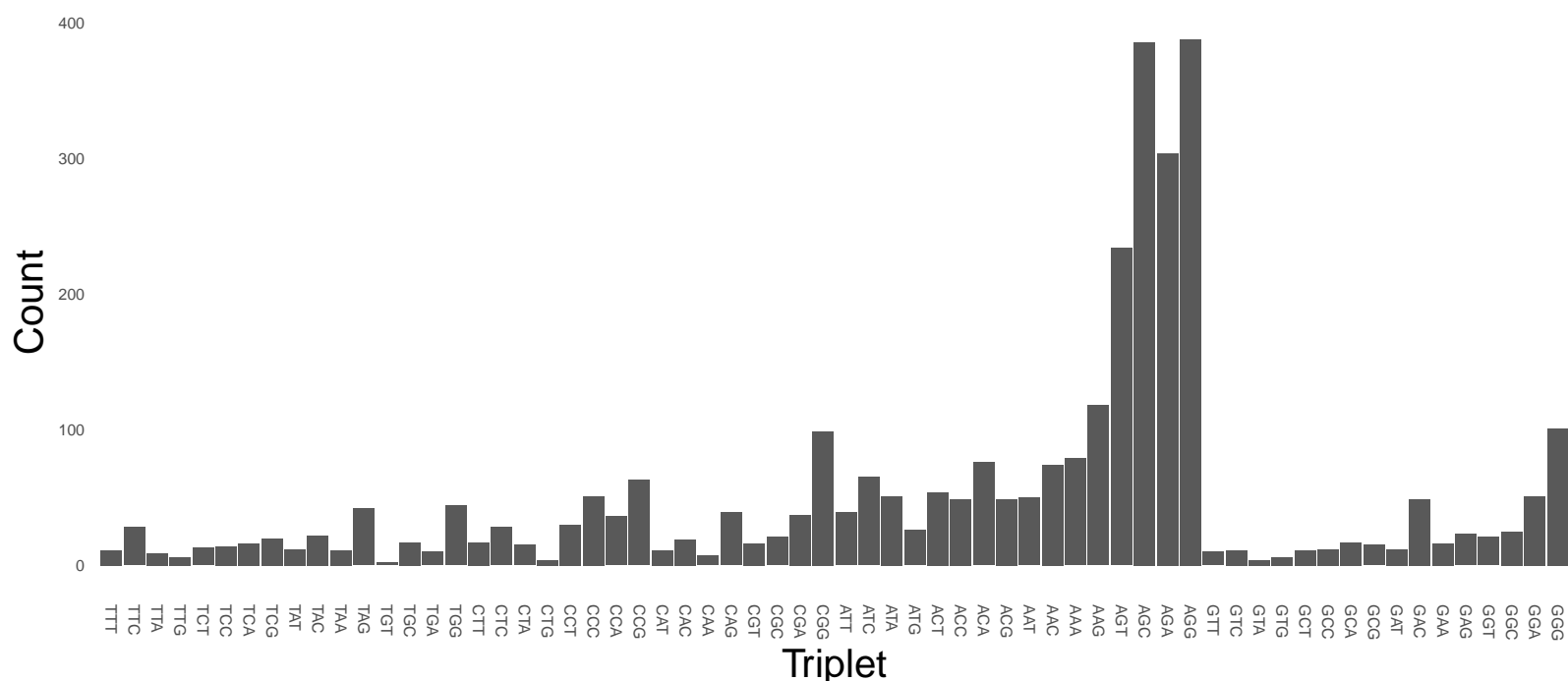
TRBV12-2\*ap01\_G301A- Final 3 nucleotides as a triplet



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



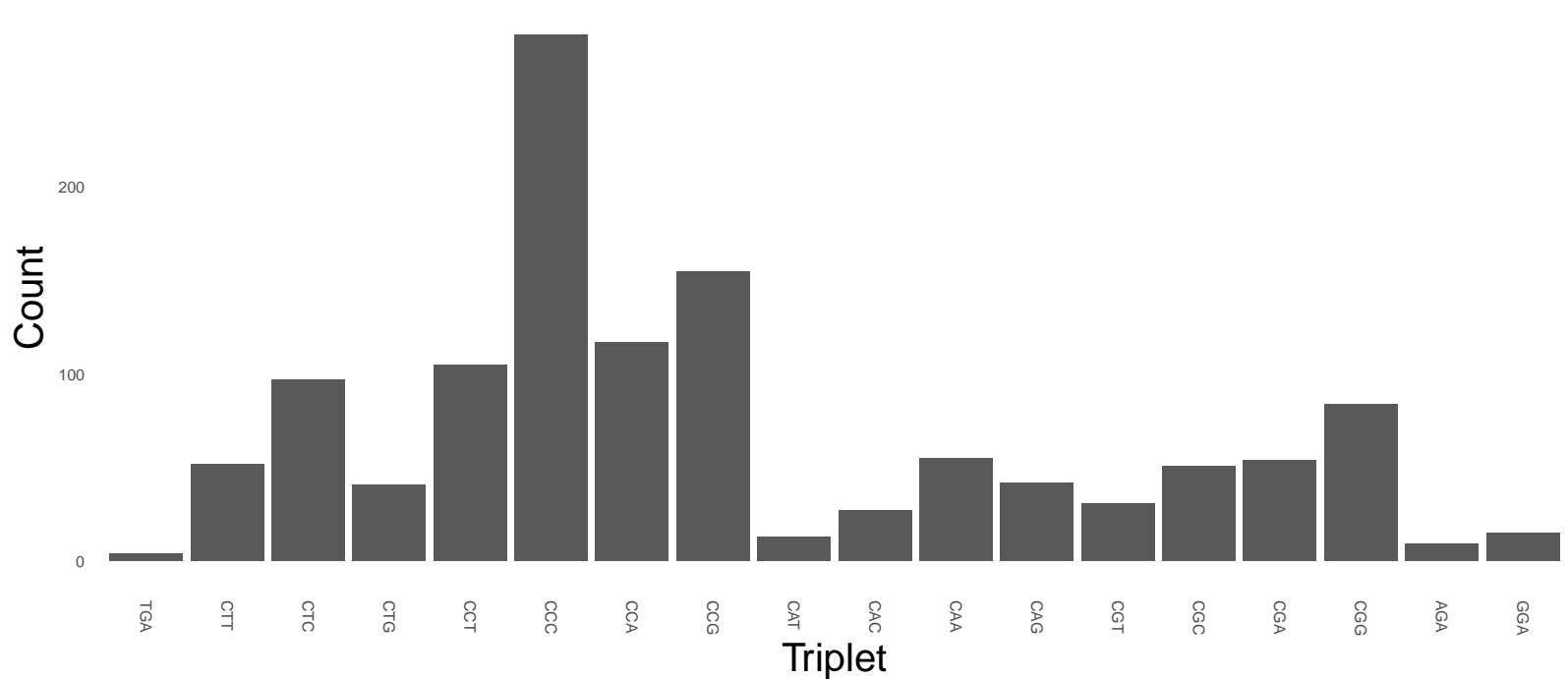
TRBV7-2\*ap01\_G297A- Final 3 nucleotides as a triplet



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

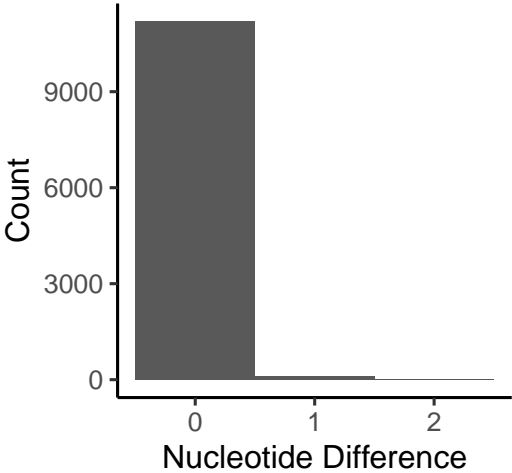


TRBV7-8\*ap03\_C297A- Final 3 nucleotides as a triplet



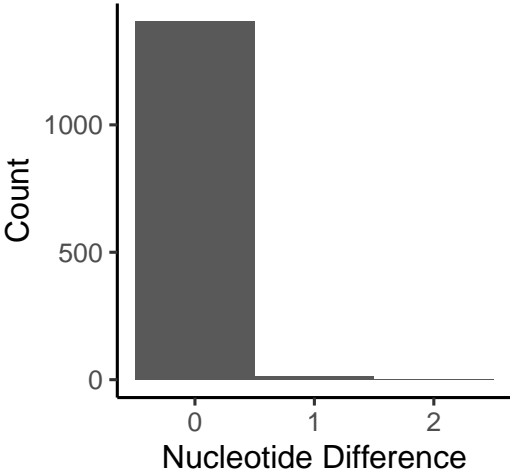
TRBV20-1\*ap01

11318 sequences assigned  
11196 (98.9%) exact matches, in which:  
11084 unique CDR3  
13 unique J



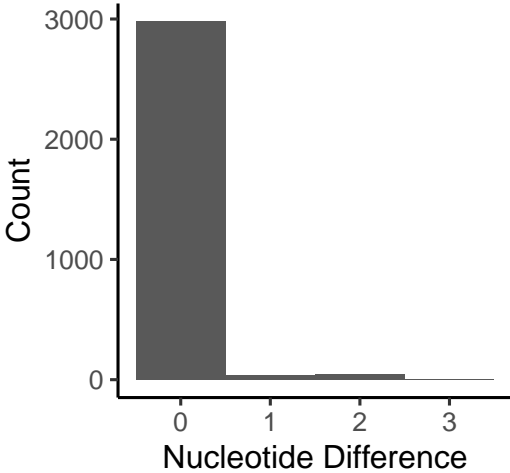
TRBV10-2\*ap01

1423 sequences assigned  
1406 (98.8%) exact matches, in which:  
1385 unique CDR3  
13 unique J



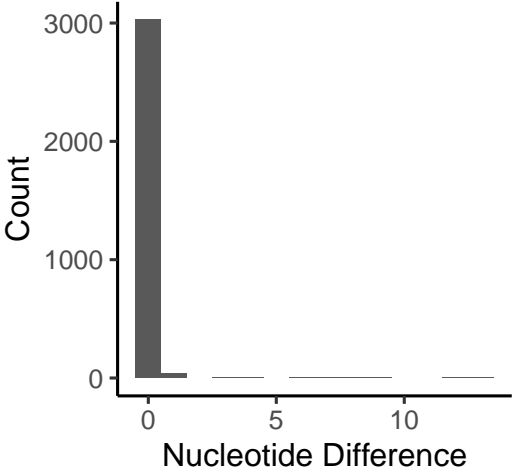
TRBV13\*ap01

3064 sequences assigned  
2980 (97.3%) exact matches, in which:  
2916 unique CDR3  
13 unique J



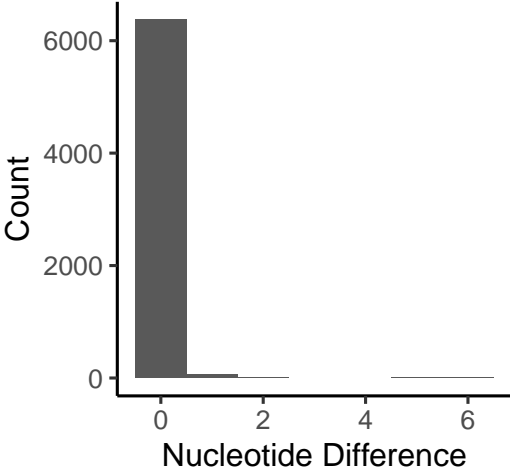
TRBV10-1\*ap01

3082 sequences assigned  
3028 (98.2%) exact matches, in which:  
2978 unique CDR3  
13 unique J



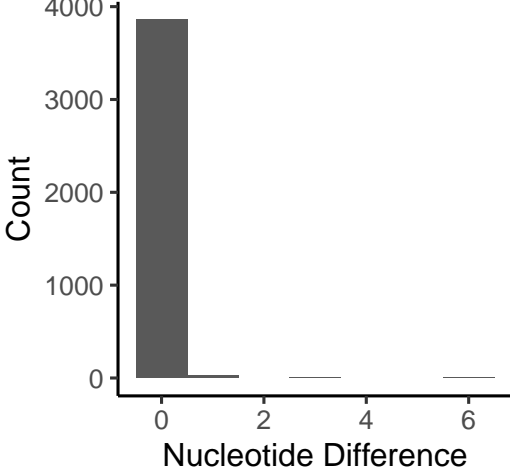
TRBV10-3\*ap01

6446 sequences assigned  
6373 (98.9%) exact matches, in which:  
6288 unique CDR3  
13 unique J



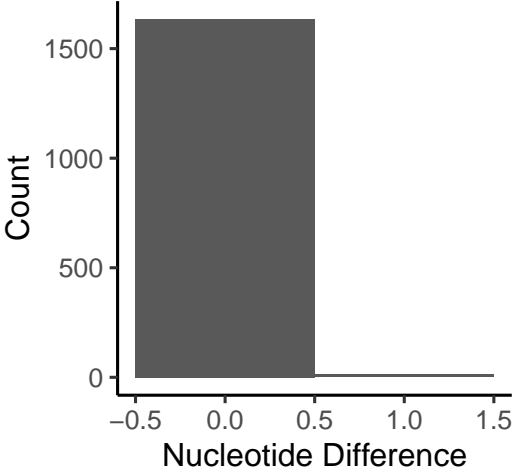
TRBV14\*ap01

3887 sequences assigned  
3859 (99.3%) exact matches, in which:  
3812 unique CDR3  
13 unique J



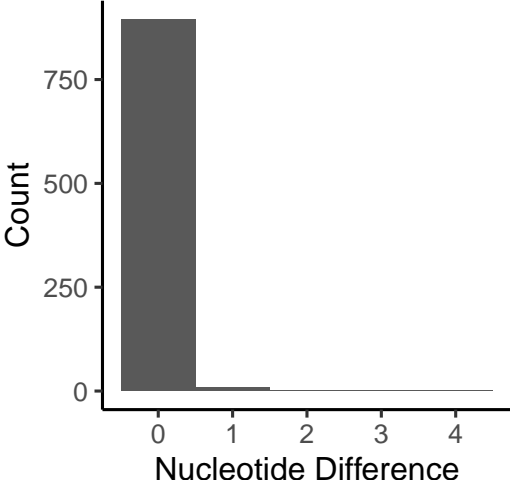
TRBV20-1\*ap02

1647 sequences assigned  
1635 (99.3%) exact matches, in which:  
1618 unique CDR3  
13 unique J



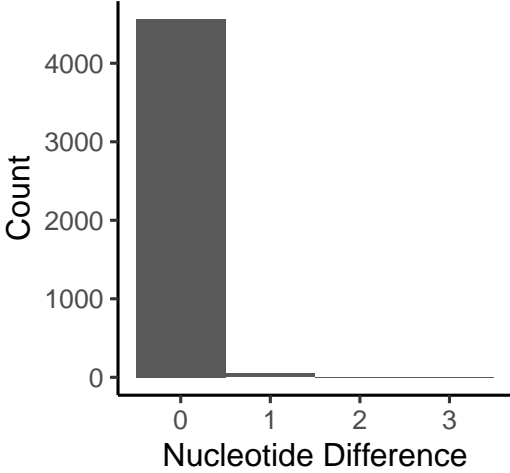
TRBV1\*ap01

908 sequences assigned  
895 (98.6%) exact matches, in which:  
880 unique CDR3  
13 unique J



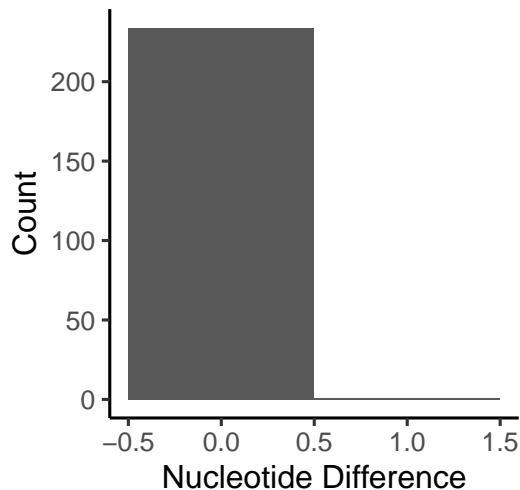
TRBV15\*ap02

4617 sequences assigned  
4563 (98.8%) exact matches, in which:  
4491 unique CDR3  
13 unique J



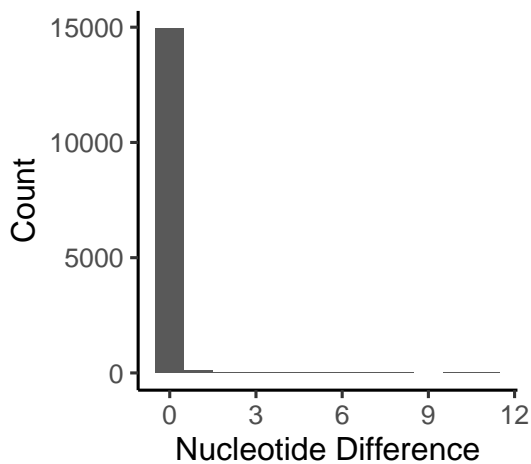
### TRBV16\*ap01

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



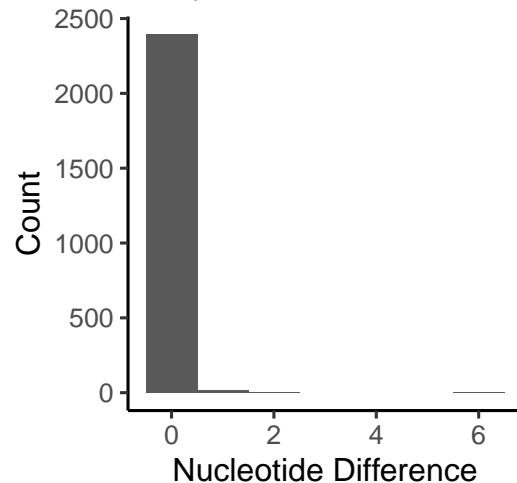
### TRBV19\*ap01

15076 sequences assigned  
14959 (99.2%) exact matches, in which:  
14856 unique CDR3  
13 unique J



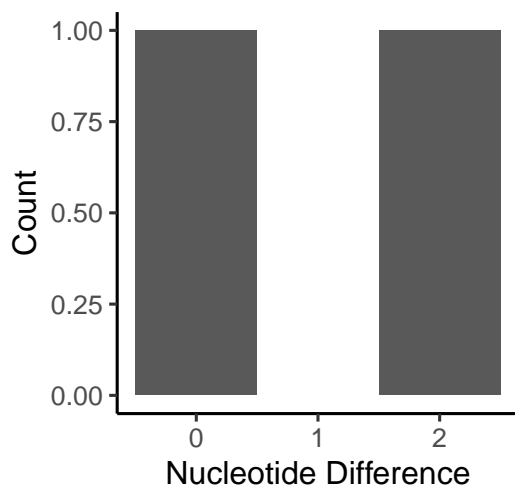
### TRBV28\*ap01

2414 sequences assigned  
2394 (99.2%) exact matches, in which:  
2361 unique CDR3  
13 unique J



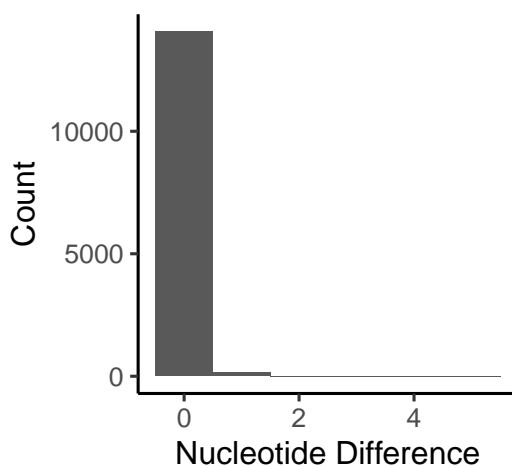
### TRBV17\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



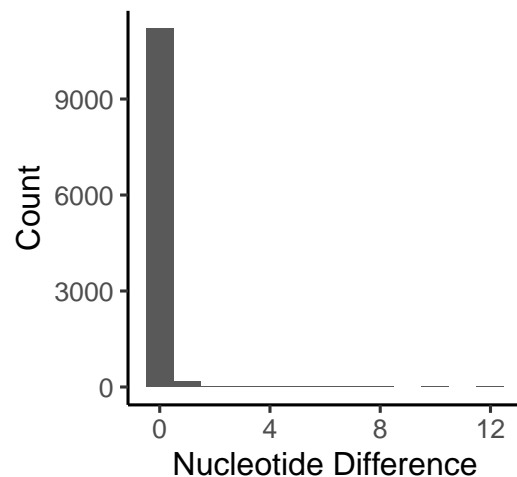
### TRBV2\*ap01

14245 sequences assigned  
14074 (98.8%) exact matches, in which:  
13832 unique CDR3  
13 unique J



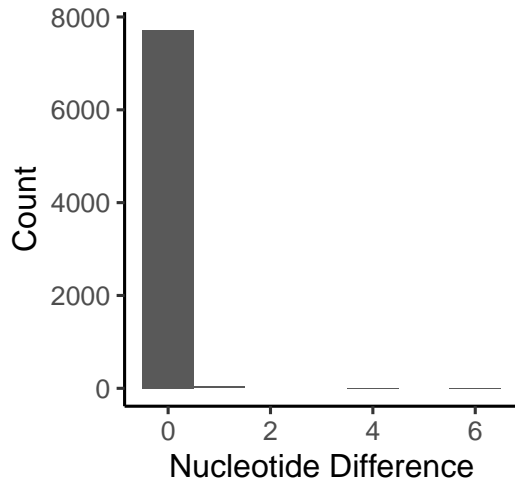
### TRBV30\*ap01

11380 sequences assigned  
11197 (98.4%) exact matches, in which:  
11045 unique CDR3  
13 unique J



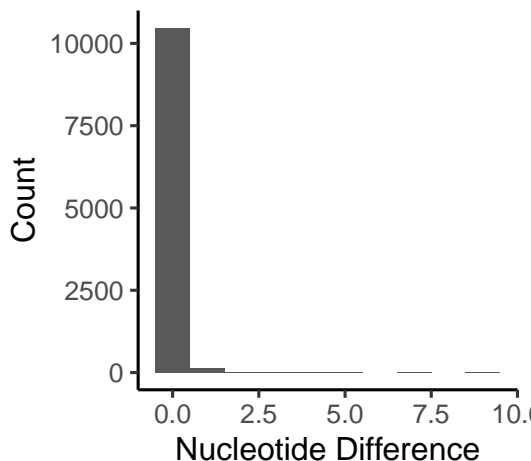
### TRBV18\*ap01

7758 sequences assigned  
7718 (99.5%) exact matches, in which:  
7661 unique CDR3  
13 unique J



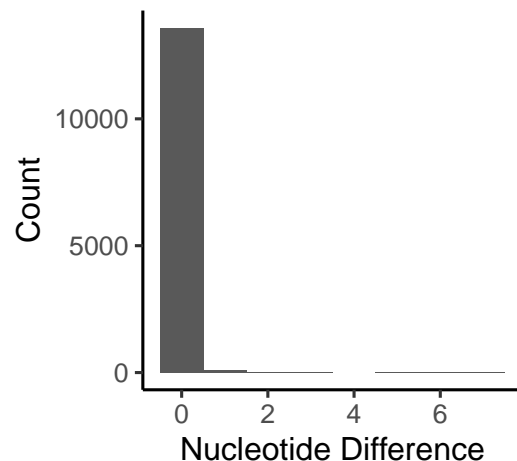
### TRBV27\*ap01

10626 sequences assigned  
10474 (98.6%) exact matches, in which:  
10282 unique CDR3  
13 unique J



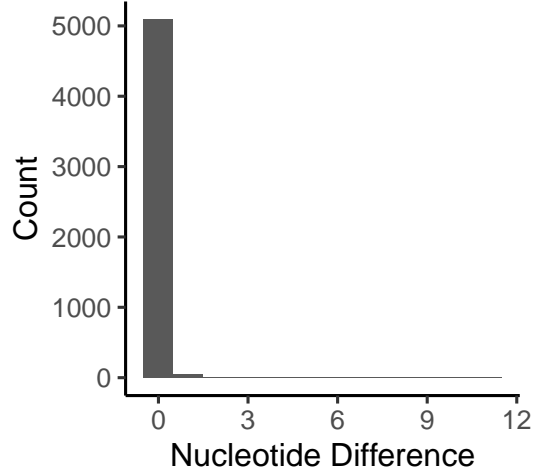
### TRBV9\*ap01

13702 sequences assigned  
13588 (99.2%) exact matches, in which:  
13421 unique CDR3  
13 unique J



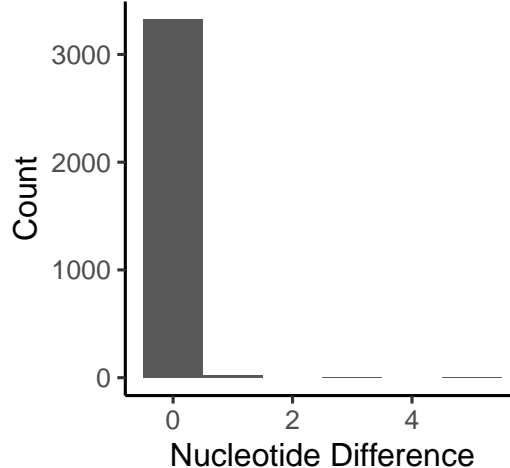
### TRBV21-1\*ap01

5184 sequences assigned  
5092 (98.2%) exact matches, in which:  
5036 unique CDR3  
13 unique J



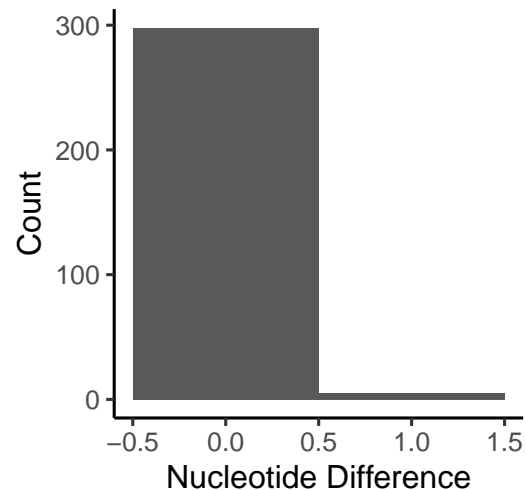
### TRBV11-3\*ap01

3355 sequences assigned  
3325 (99.1%) exact matches, in which:  
3284 unique CDR3  
13 unique J



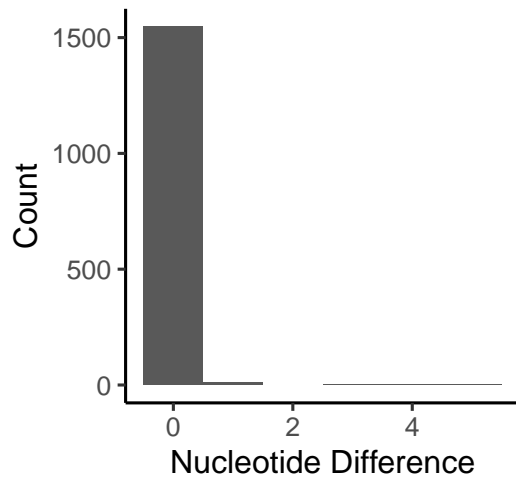
### TRBV12-2\*ap01\_G301A

303 sequences assigned  
298 (98.3%) exact matches, in which:  
295 unique CDR3  
13 unique J



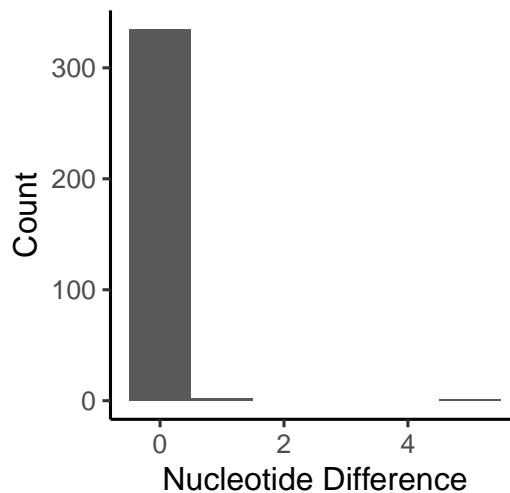
### TRBV11-1\*ap01

1559 sequences assigned  
1547 (99.2%) exact matches, in which:  
1526 unique CDR3  
13 unique J



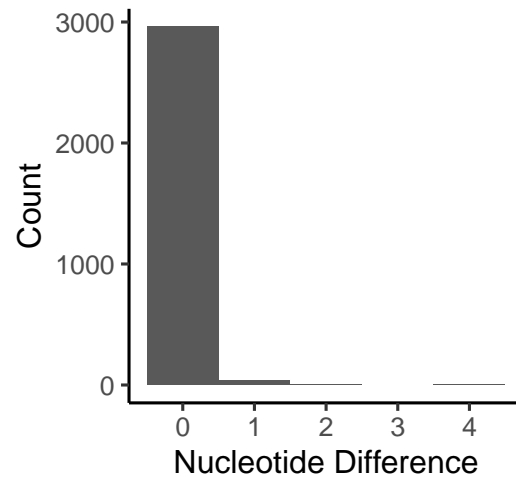
### TRBV12-1\*ap01

338 sequences assigned  
335 (99.1%) exact matches, in which:  
331 unique CDR3  
13 unique J



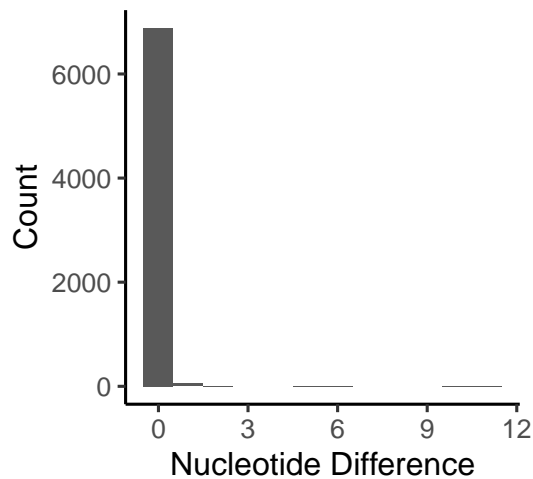
### TRBV12-5\*ap01

3000 sequences assigned  
2961 (98.7%) exact matches, in which:  
2913 unique CDR3  
13 unique J



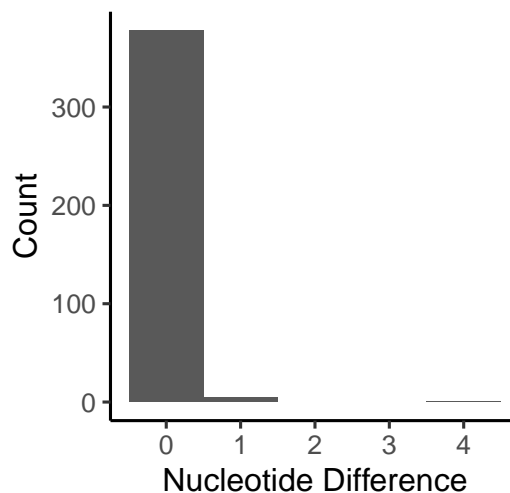
### TRBV11-2\*ap01

6944 sequences assigned  
6882 (99.1%) exact matches, in which:  
6793 unique CDR3  
13 unique J



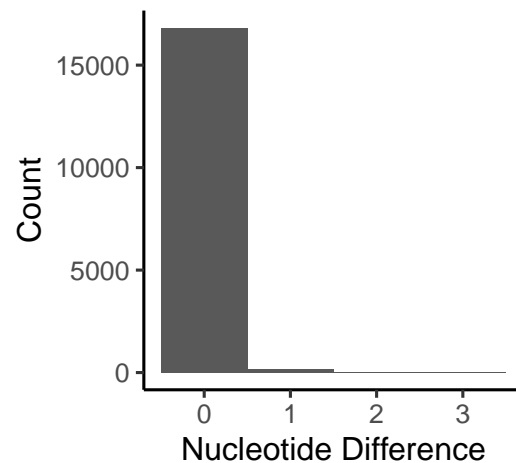
### TRBV12-2\*ap01

384 sequences assigned  
378 (98.4%) exact matches, in which:  
373 unique CDR3  
13 unique J



### TRBV12-34\*ap01

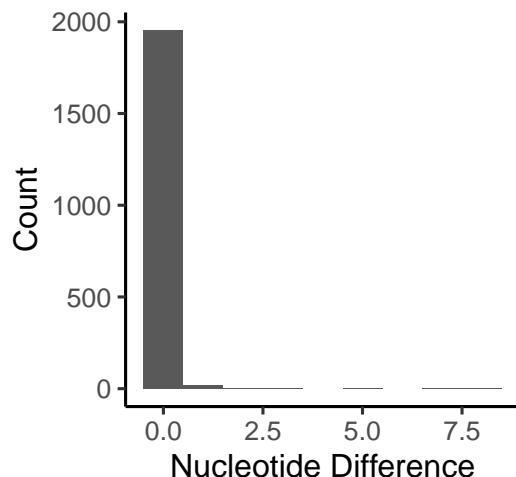
16995 sequences assigned  
16822 (99%) exact matches, in which:  
16584 unique CDR3  
13 unique J





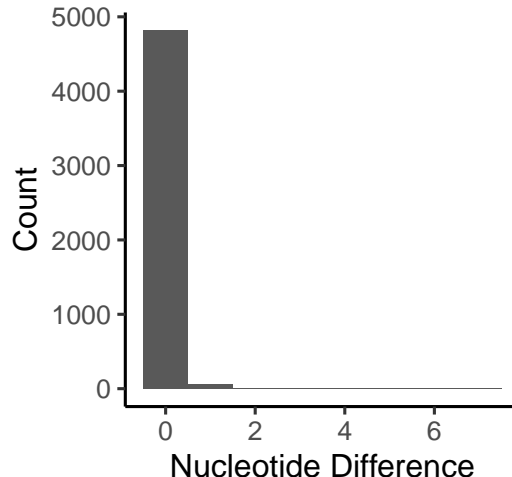
### TRBV23-1\*ap01

1980 sequences assigned  
1953 (98.6%) exact matches, in which:  
1918 unique CDR3  
13 unique J



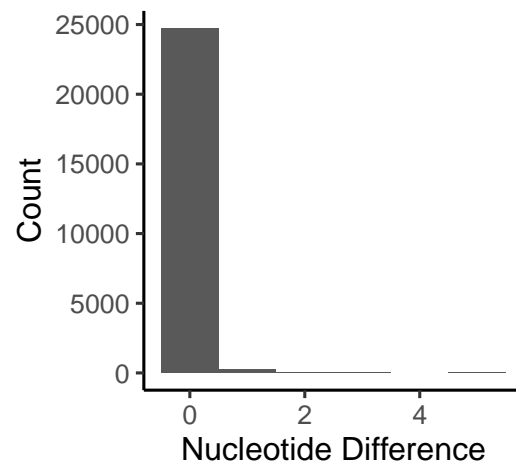
### TRBV24-1\*ap01

4893 sequences assigned  
4817 (98.4%) exact matches, in which:  
4742 unique CDR3  
13 unique J



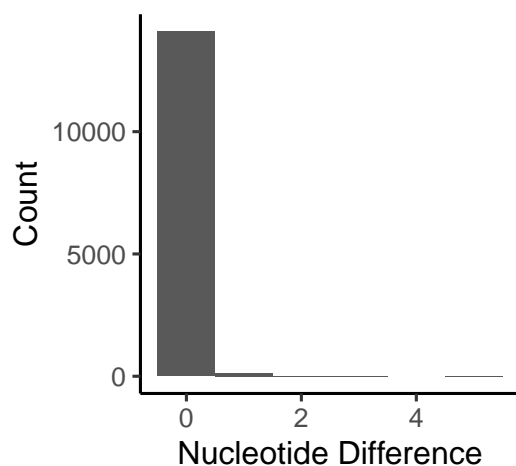
### TRBV5-1\*ap01

25000 sequences assigned  
24741 (99%) exact matches, in which:  
24250 unique CDR3  
13 unique J



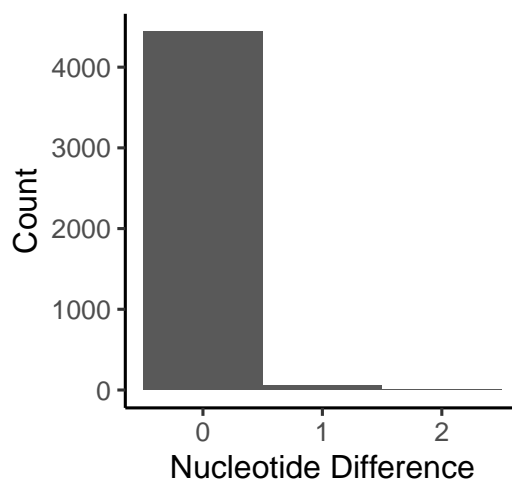
### TRBV3-12\*ap01

14245 sequences assigned  
14096 (99%) exact matches, in which:  
13847 unique CDR3  
13 unique J



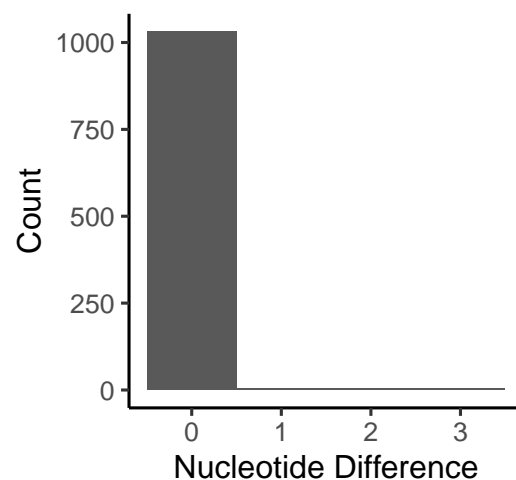
### TRBV4-2\*ap01

4494 sequences assigned  
4439 (98.8%) exact matches, in which:  
4372 unique CDR3  
13 unique J



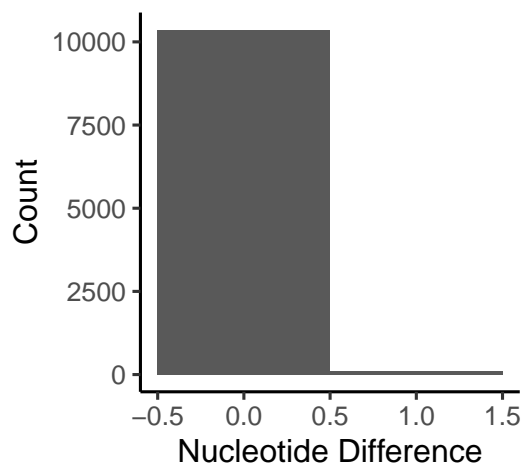
### TRBV5-3\*ap01

1044 sequences assigned  
1031 (98.8%) exact matches, in which:  
1023 unique CDR3  
13 unique J



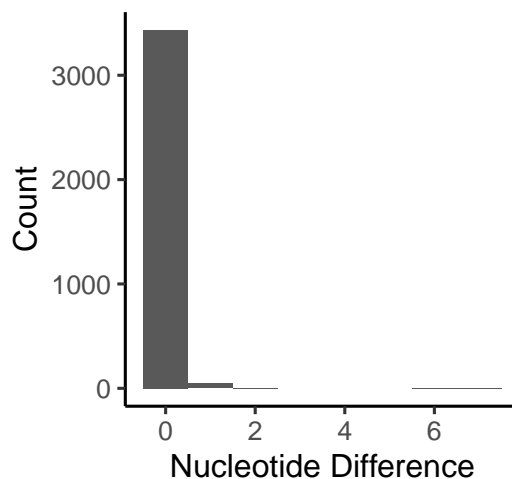
### TRBV4-1\*ap01

10477 sequences assigned  
10363 (98.9%) exact matches, in which:  
10187 unique CDR3  
13 unique J



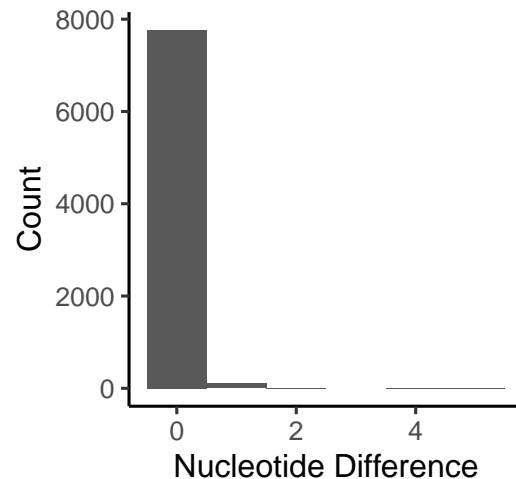
### TRBV25-1\*ap01

3481 sequences assigned  
3433 (98.6%) exact matches, in which:  
3390 unique CDR3  
13 unique J



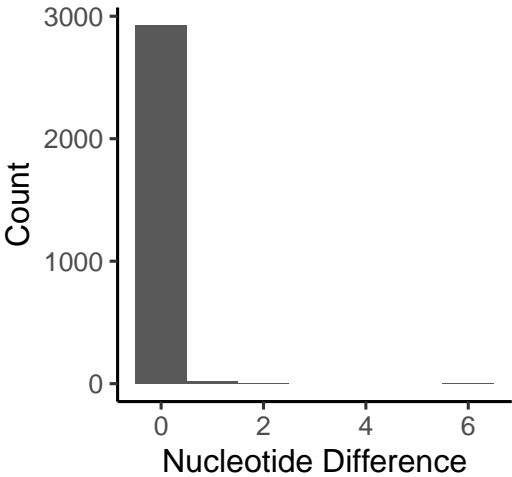
### TRBV5-4\*ap01

7870 sequences assigned  
7765 (98.7%) exact matches, in which:  
7632 unique CDR3  
13 unique J



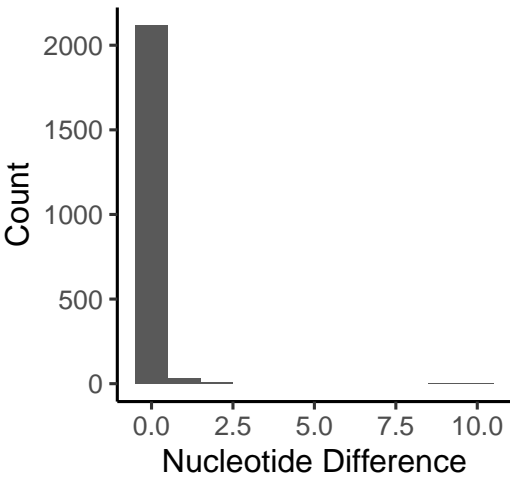
TRBV5-5\*ap01

2949 sequences assigned  
2925 (99.2%) exact matches, in which:  
2909 unique CDR3  
13 unique J



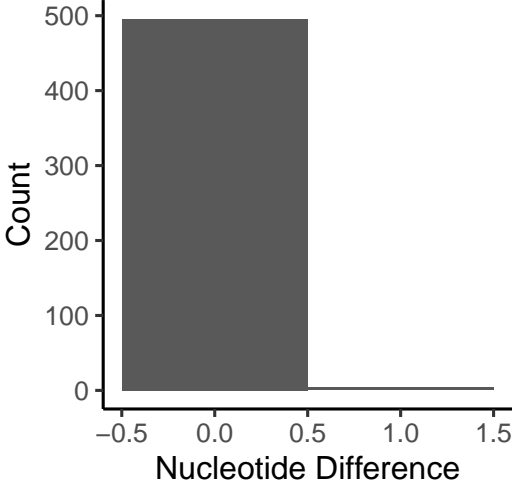
TRBV5-8\*ap01

2164 sequences assigned  
2117 (97.8%) exact matches, in which:  
2089 unique CDR3  
13 unique J



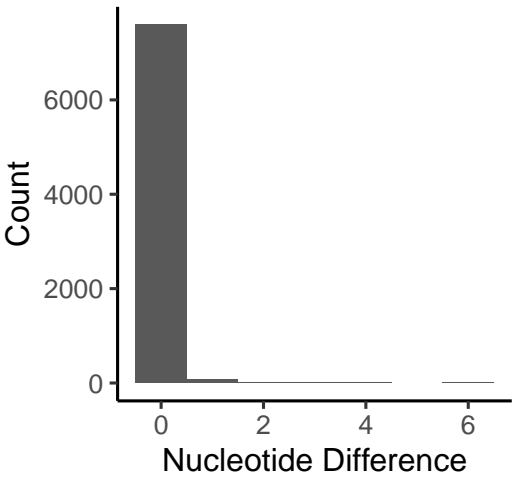
TRBV6-7\*ap01

500 sequences assigned  
496 (99.2%) exact matches, in which:  
486 unique CDR3  
13 unique J



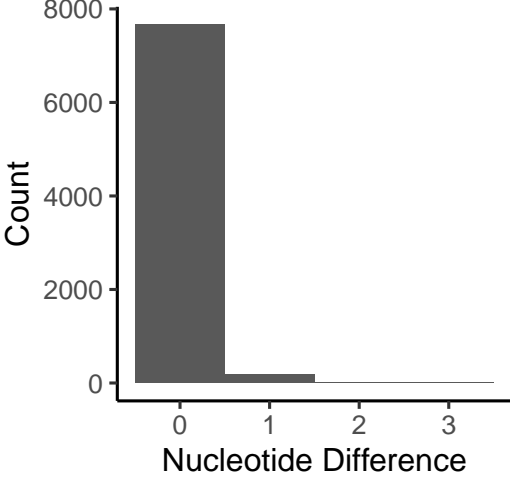
TRBV5-6\*ap01

7684 sequences assigned  
7593 (98.8%) exact matches, in which:  
7420 unique CDR3  
13 unique J



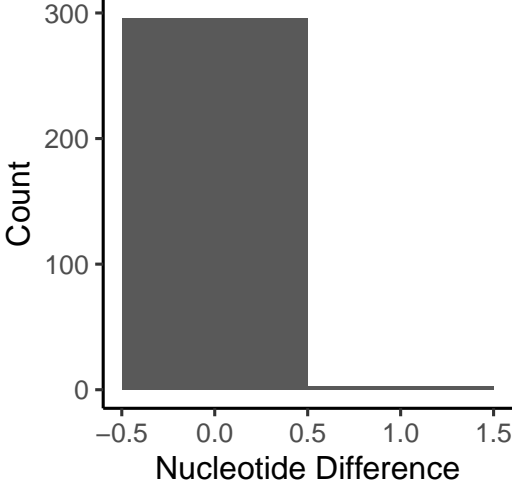
TRBV6-1\*ap01

7855 sequences assigned  
7662 (97.5%) exact matches, in which:  
7515 unique CDR3  
13 unique J



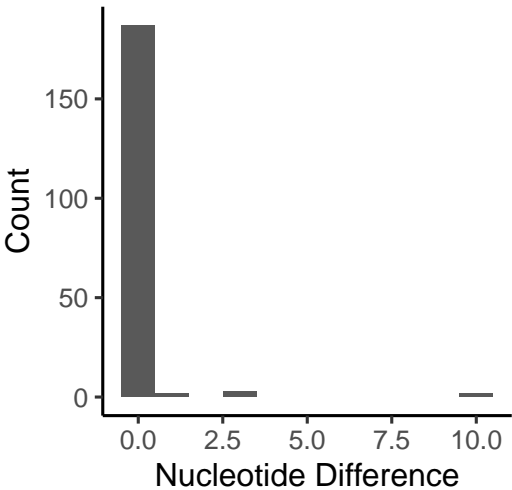
TRBV6-8\*ap01

299 sequences assigned  
296 (99%) exact matches, in which:  
283 unique CDR3  
13 unique J



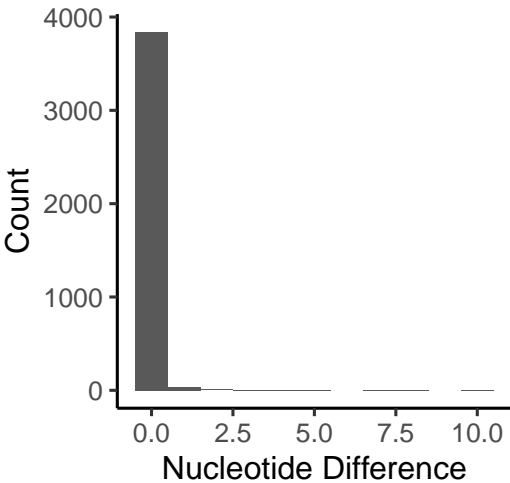
TRBV5-7\*ap01

194 sequences assigned  
187 (96.4%) exact matches, in which:  
185 unique CDR3  
13 unique J



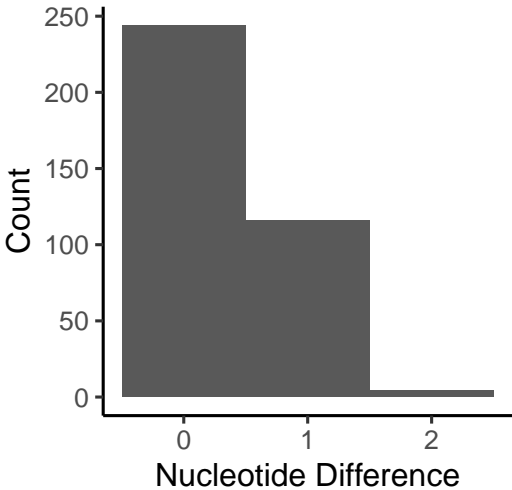
TRBV6-4\*ap01

3895 sequences assigned  
3839 (98.6%) exact matches, in which:  
3787 unique CDR3  
13 unique J



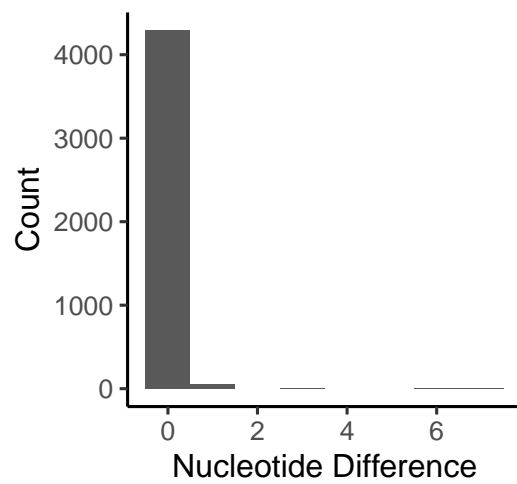
TRBV6-9\*ap01

364 sequences assigned  
244 (67%) exact matches, in which:  
239 unique CDR3  
13 unique J



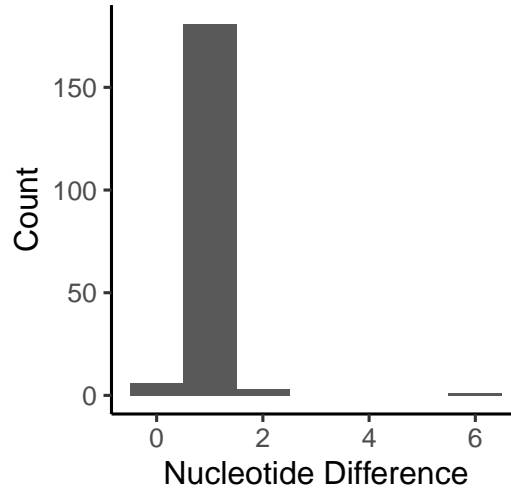
### TRBV6-23\*ap01

4357 sequences assigned  
4291 (98.5%) exact matches, in which:  
4206 unique CDR3  
13 unique J



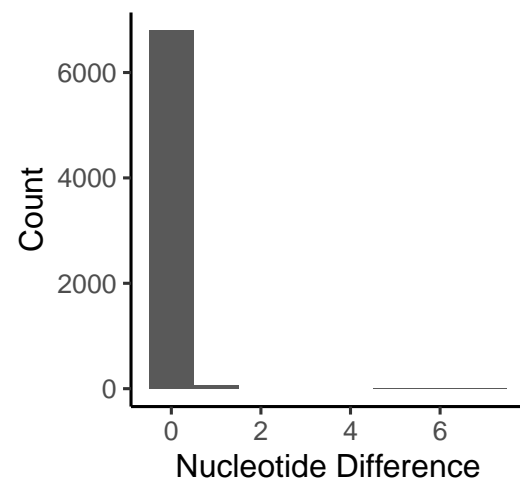
### TRBV7-1\*ap01\_T296C

191 sequences assigned  
6 (3.1%) exact matches, in which:  
6 unique CDR3  
5 unique J



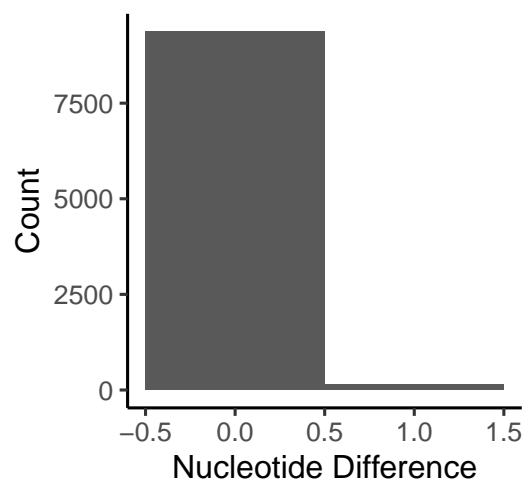
### TRBV7-3\*ap01

6867 sequences assigned  
6799 (99%) exact matches, in which:  
6733 unique CDR3  
13 unique J



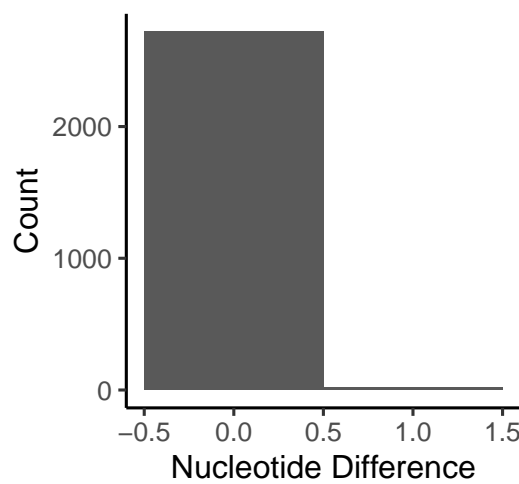
### TRBV6-56\*ap01

9514 sequences assigned  
9368 (98.5%) exact matches, in which:  
9178 unique CDR3  
13 unique J



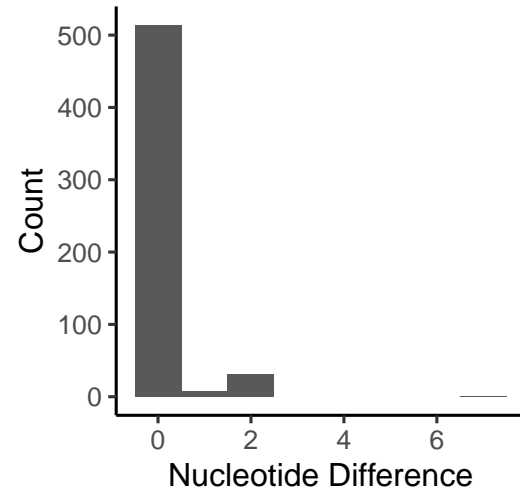
### TRBV7-2\*ap01

2742 sequences assigned  
2720 (99.2%) exact matches, in which:  
2686 unique CDR3  
13 unique J



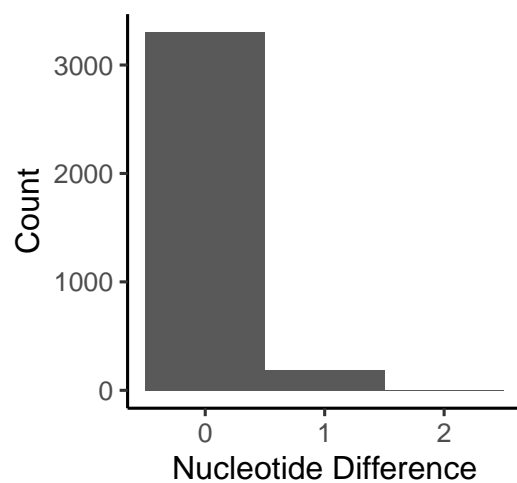
### TRBV7-4\*ap01

553 sequences assigned  
514 (92.9%) exact matches, in which:  
510 unique CDR3  
14 unique J



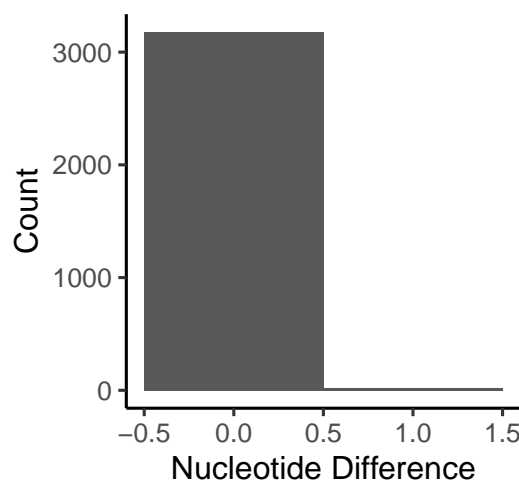
### TRBV6-56\*ap02

3491 sequences assigned  
3304 (94.6%) exact matches, in which:  
3233 unique CDR3  
13 unique J



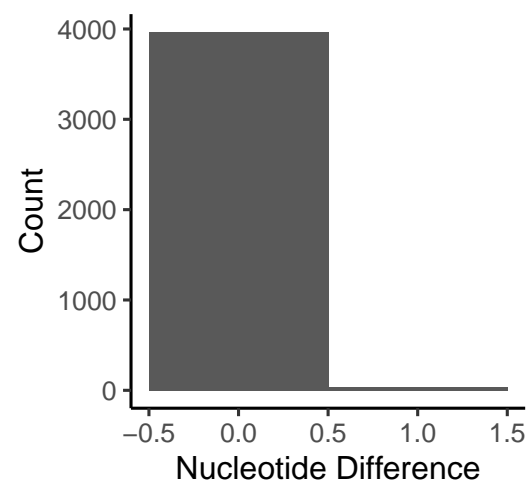
### TRBV7-2\*ap01\_G297A

3196 sequences assigned  
3178 (99.4%) exact matches, in which:  
3131 unique CDR3  
13 unique J



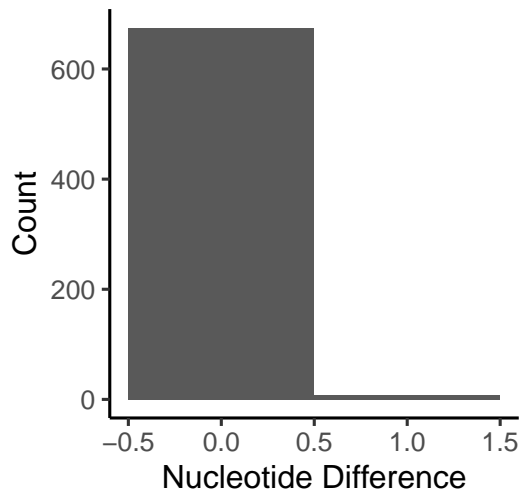
### TRBV7-6\*ap01

4002 sequences assigned  
3966 (99.1%) exact matches, in which:  
3898 unique CDR3  
13 unique J



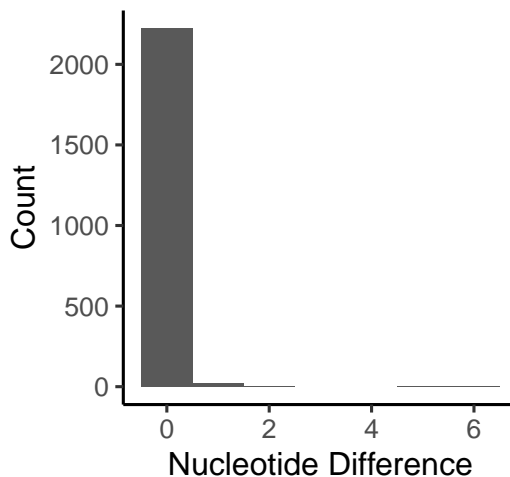
### TRBV7-7\*ap01

683 sequences assigned  
675 (98.8%) exact matches, in which:  
670 unique CDR3  
13 unique J



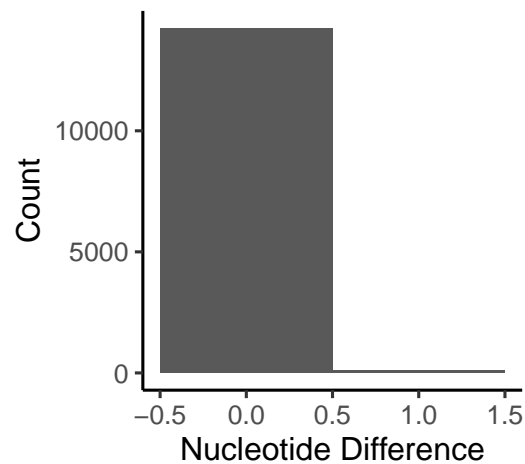
### TRBV7-8\*ap02

2251 sequences assigned  
2223 (98.8%) exact matches, in which:  
2190 unique CDR3  
13 unique J



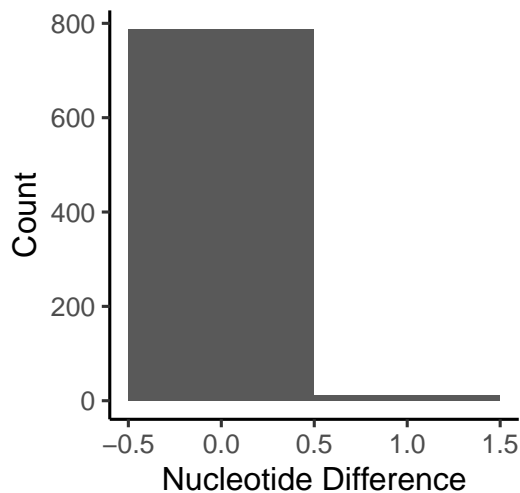
### TRBV7-9\*ap01

14338 sequences assigned  
14239 (99.3%) exact matches, in which:  
14070 unique CDR3  
13 unique J



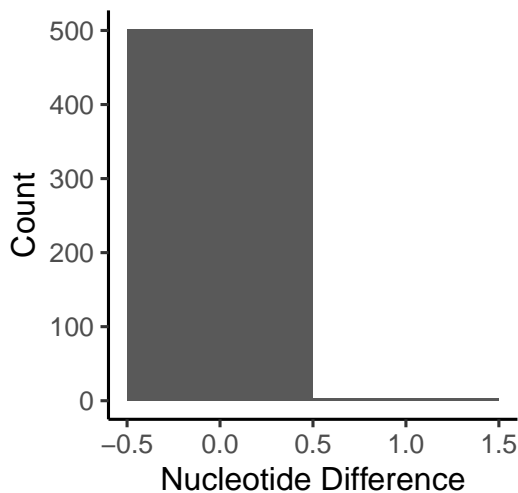
### TRBV7-7\*ap01\_C315T

799 sequences assigned  
788 (98.6%) exact matches, in which:  
770 unique CDR3  
13 unique J



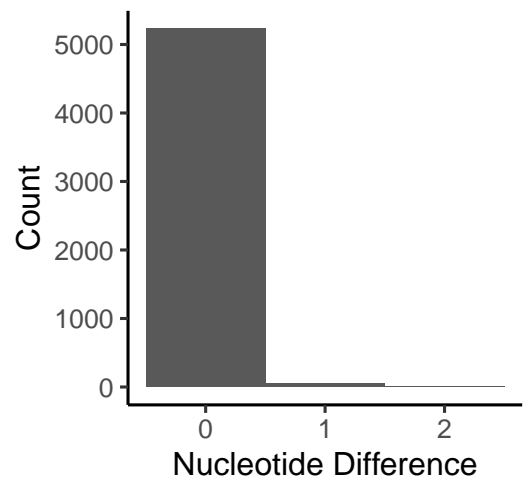
### TRBV7-8\*ap03

505 sequences assigned  
502 (99.4%) exact matches, in which:  
491 unique CDR3  
13 unique J



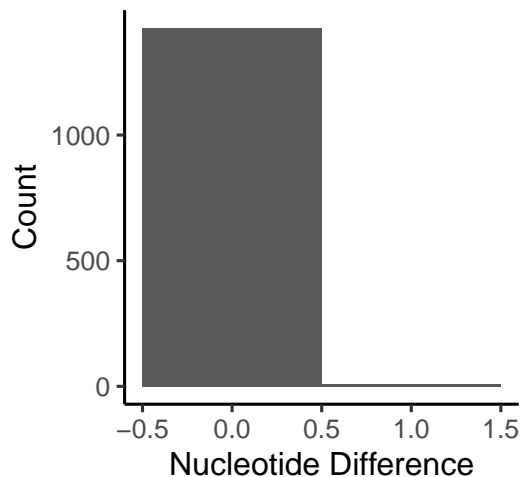
### TRBV29-1\*ap01

5290 sequences assigned  
5230 (98.9%) exact matches, in which:  
5153 unique CDR3  
13 unique J



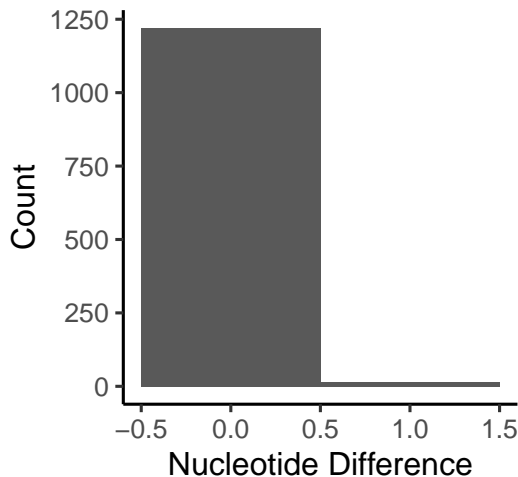
### TRBV7-8\*ap01

1436 sequences assigned  
1426 (99.3%) exact matches, in which:  
1400 unique CDR3  
13 unique J



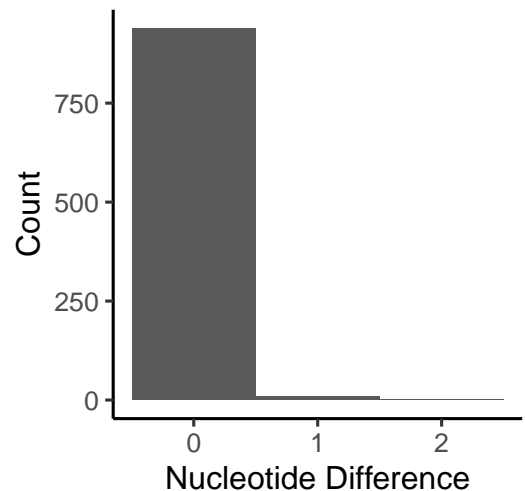
### TRBV7-8\*ap03\_C297A

1234 sequences assigned  
1220 (98.9%) exact matches, in which:  
1206 unique CDR3  
13 unique J

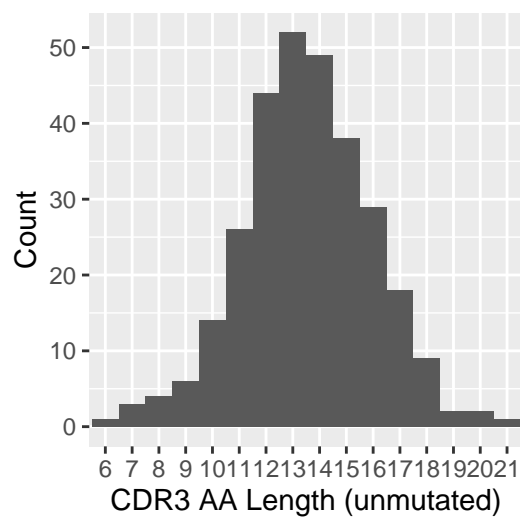


### TRBV29-1\*ap02

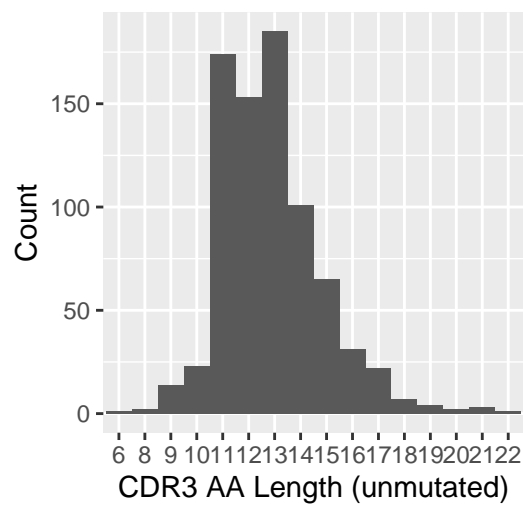
949 sequences assigned  
939 (98.9%) exact matches, in which:  
924 unique CDR3  
13 unique J



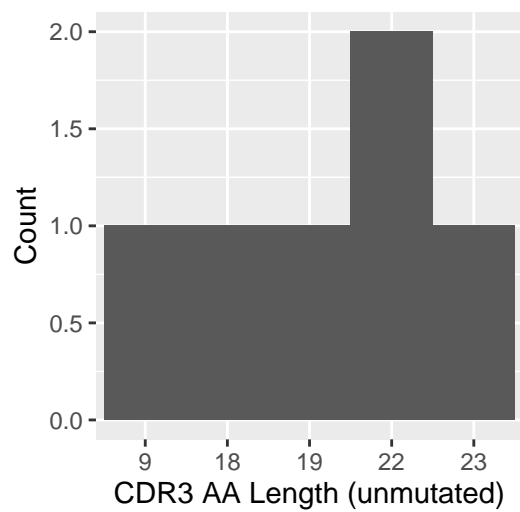
TRBV12-2\*ap01\_G301A



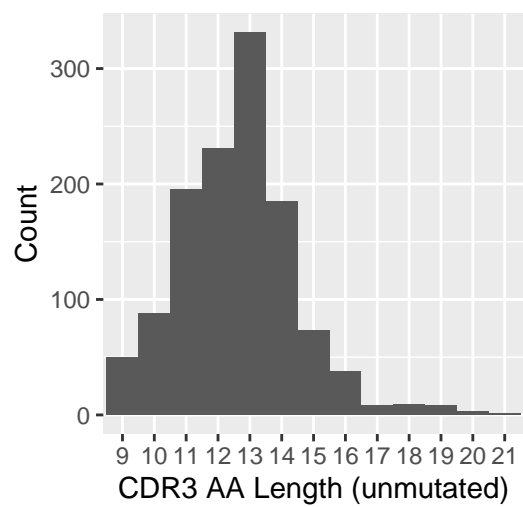
TRBV7-7\*ap01\_C315T



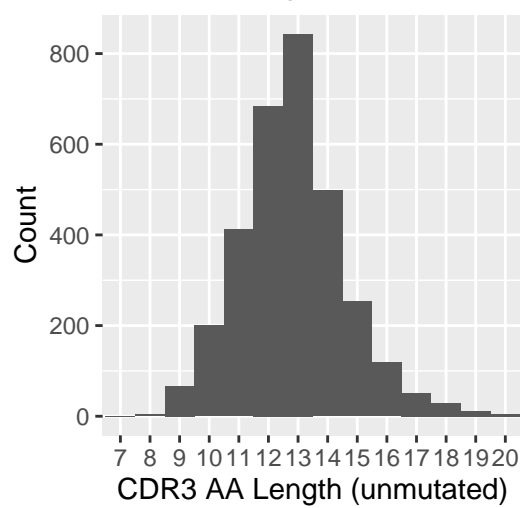
TRBV7-1\*ap01\_T296C



TRBV7-8\*ap03\_C297A



TRBV7-2\*ap01\_G297A





[illegible]