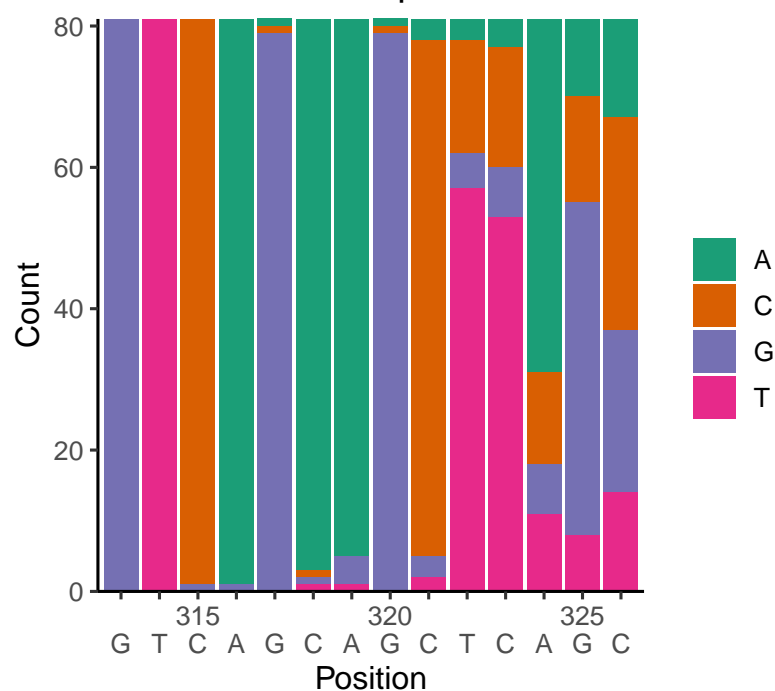
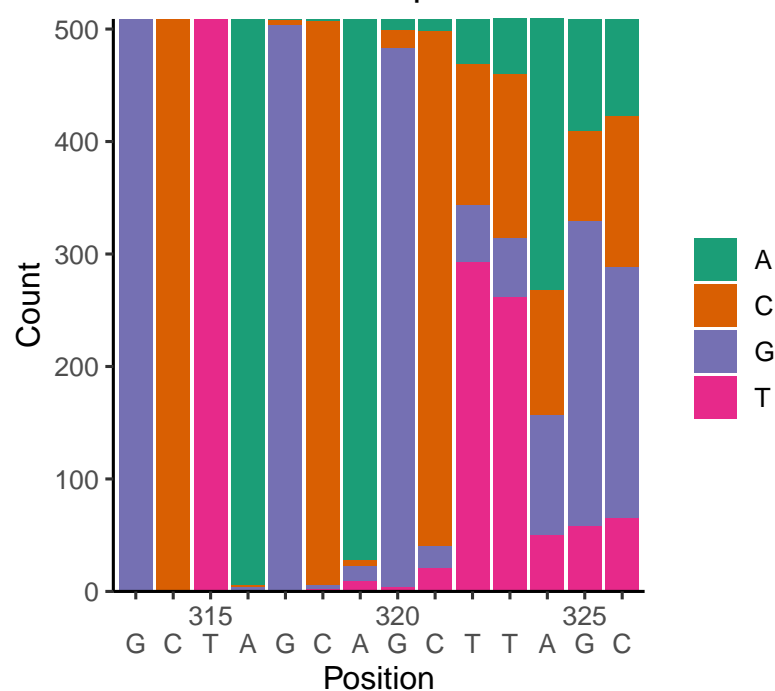


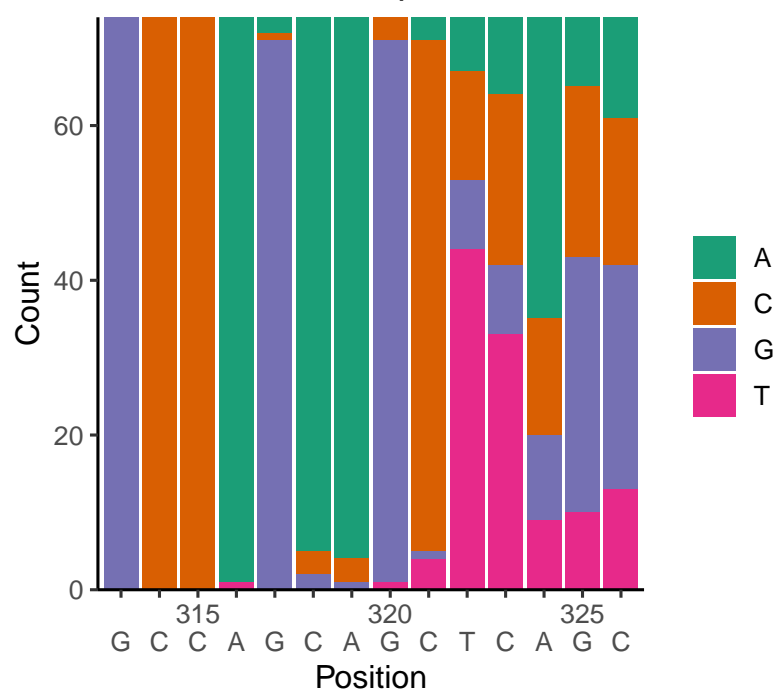
Gene TRBV7-1\*ap01\_G291C\_T296C\_C3



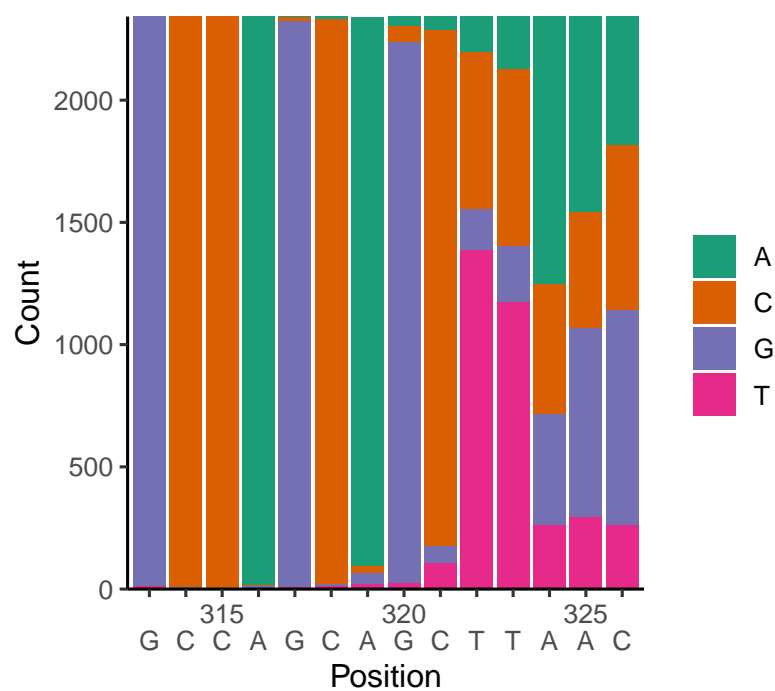
Gene TRBV7-7\*ap01\_C315T



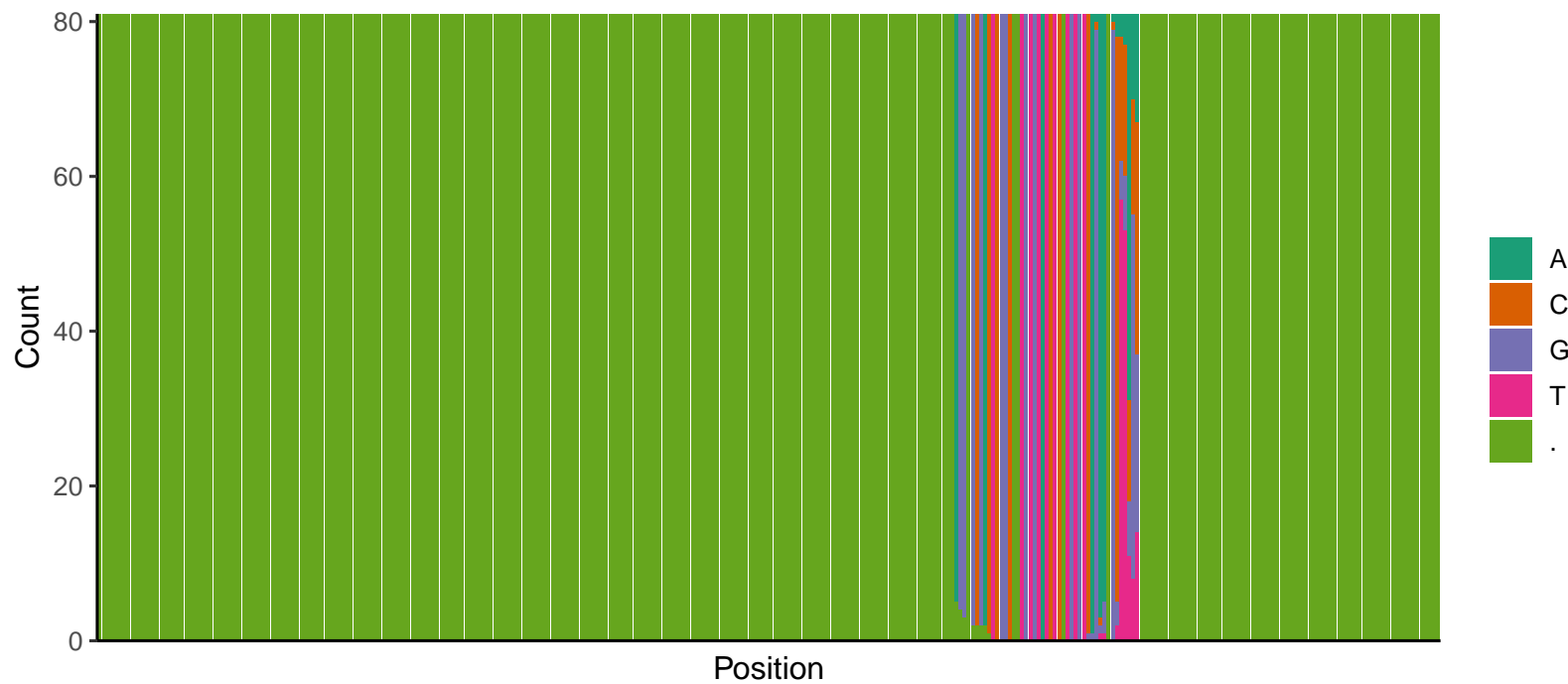
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-3\*ap01\_G301A



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



Gene TRBV7-1\*ap01\_G291C\_T296C



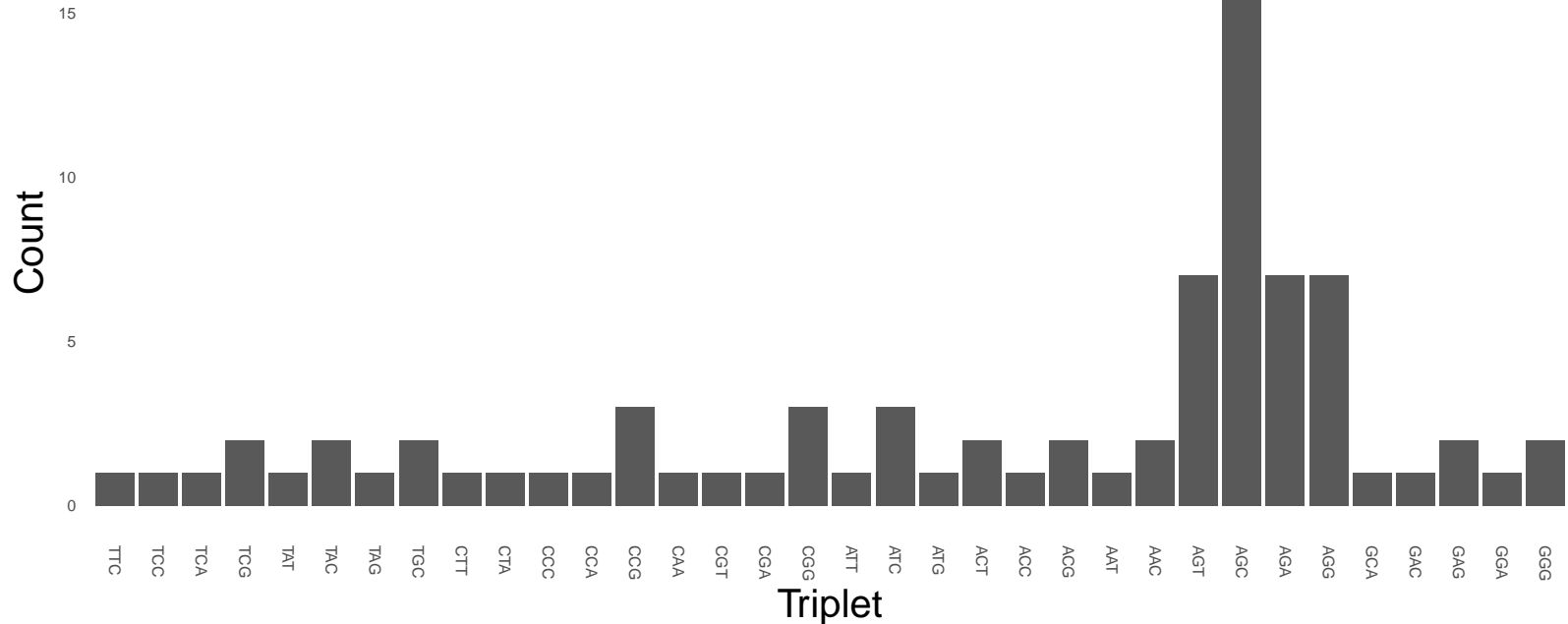
Gene TRBV7-3\*ap01\_G301A



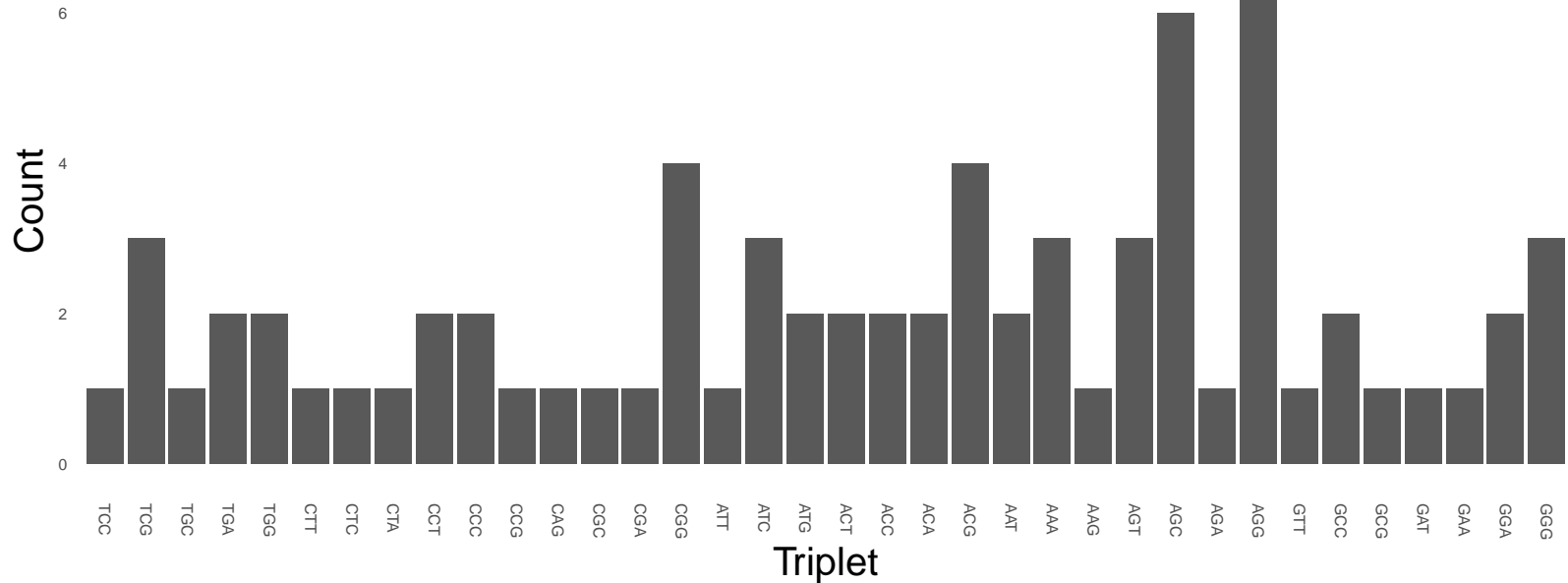
Gene TRBV7-7\*ap01\_C315T



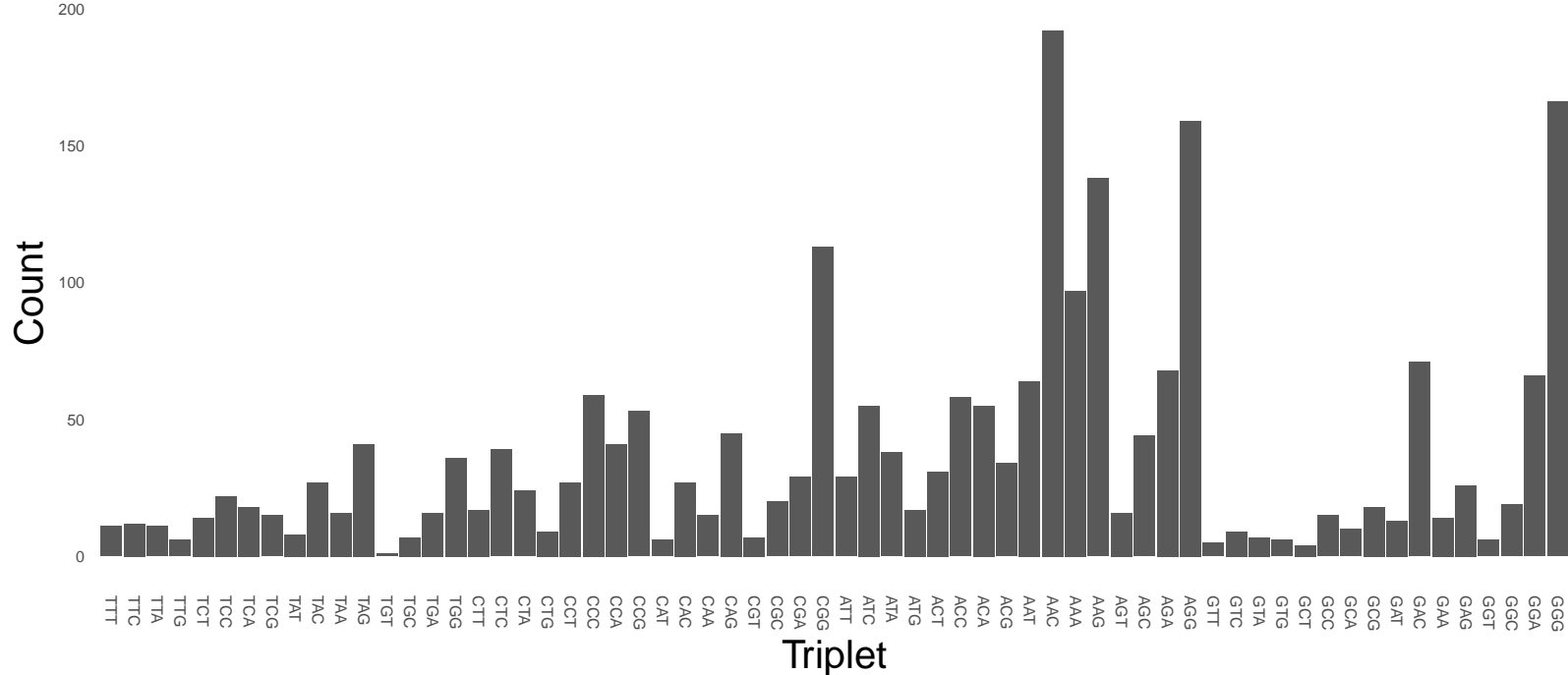
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



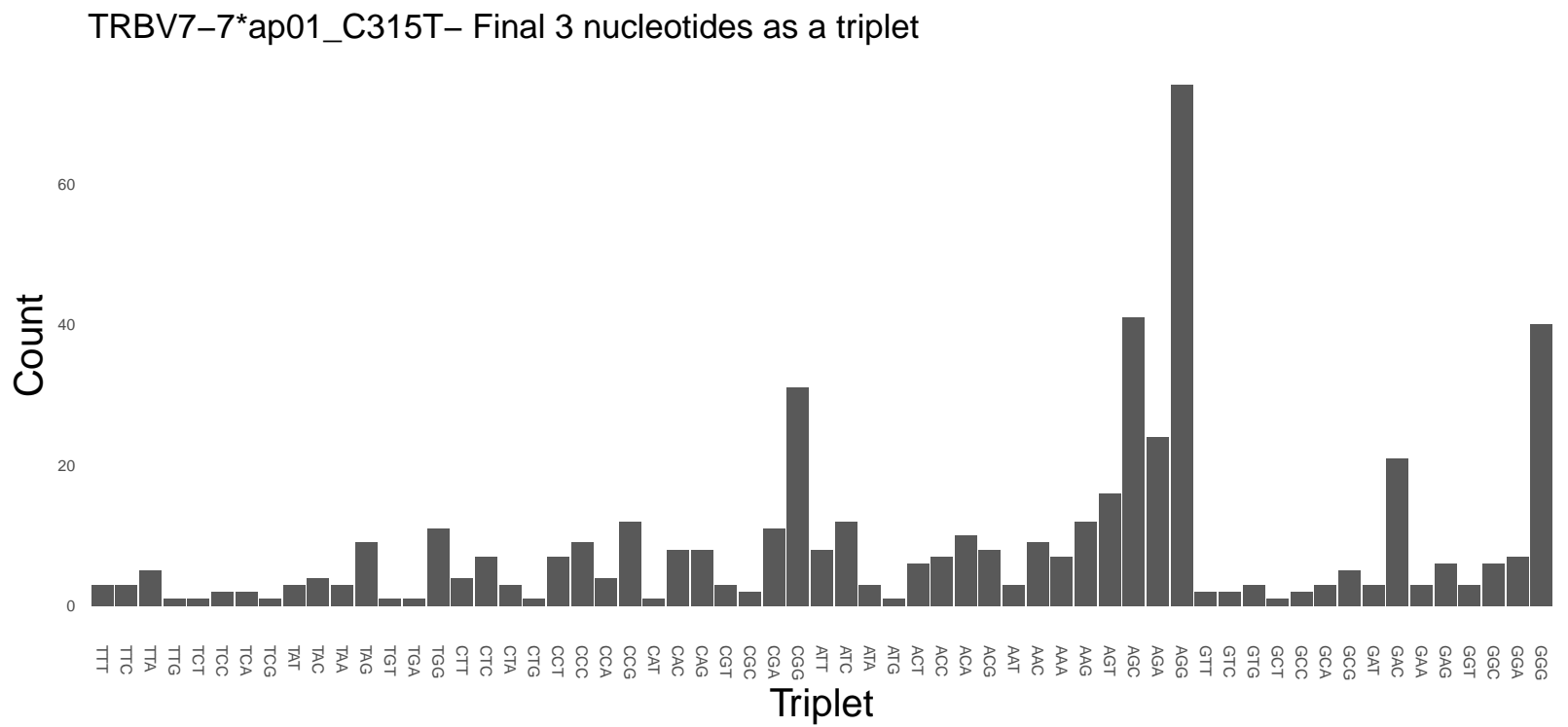
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



TRBV7-3\*ap01\_G301A- Final 3 nucleotides as a triplet

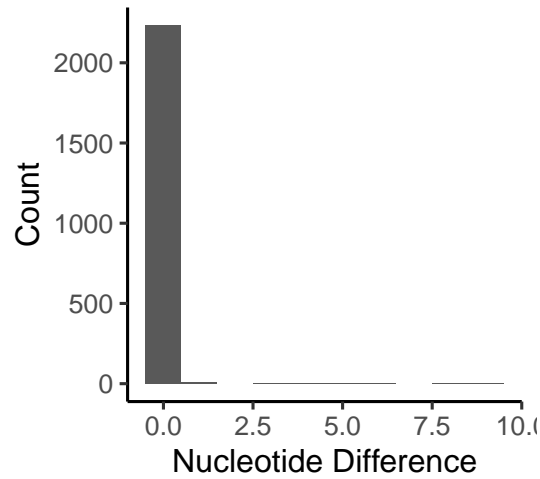


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



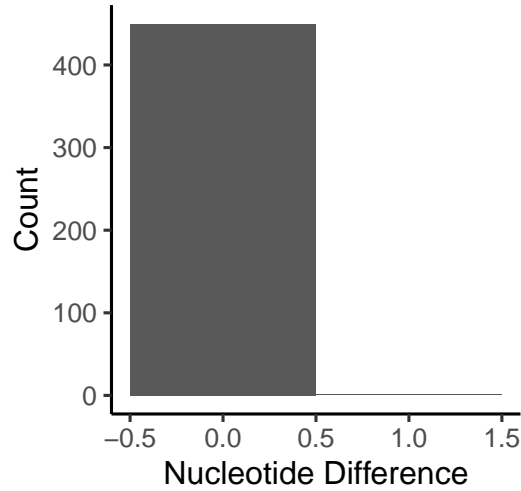
### TRBV10-1\*ap01

2250 sequences assigned  
2233 (99.2%) exact matches, in which:  
2182 unique CDR3  
13 unique J



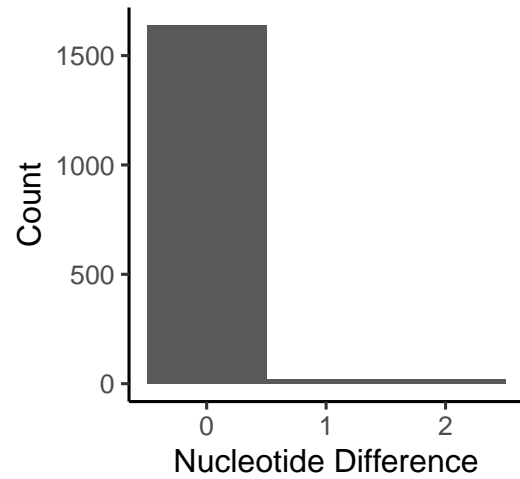
### TRBV10-2\*ap01

451 sequences assigned  
450 (99.8%) exact matches, in which:  
447 unique CDR3  
13 unique J



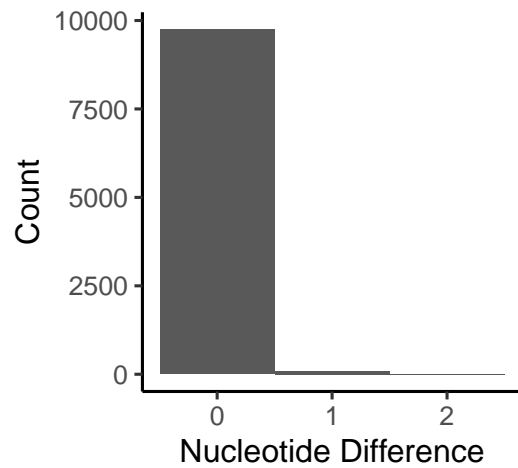
### TRBV13\*ap01

1680 sequences assigned  
1638 (97.5%) exact matches, in which:  
1596 unique CDR3  
13 unique J



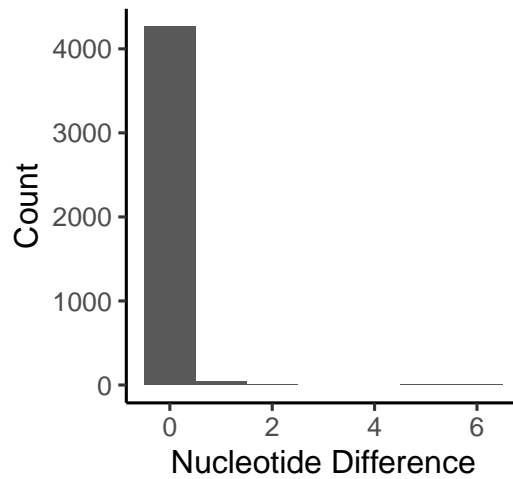
### TRBV20-1\*ap01

9834 sequences assigned  
9747 (99.1%) exact matches, in which:  
9602 unique CDR3  
13 unique J



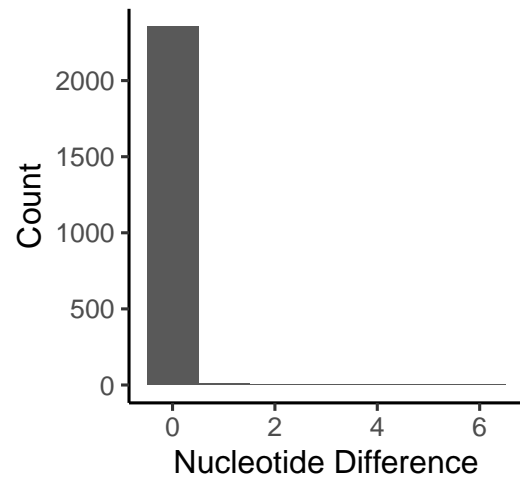
### TRBV10-3\*ap01

4316 sequences assigned  
4263 (98.8%) exact matches, in which:  
4170 unique CDR3  
13 unique J



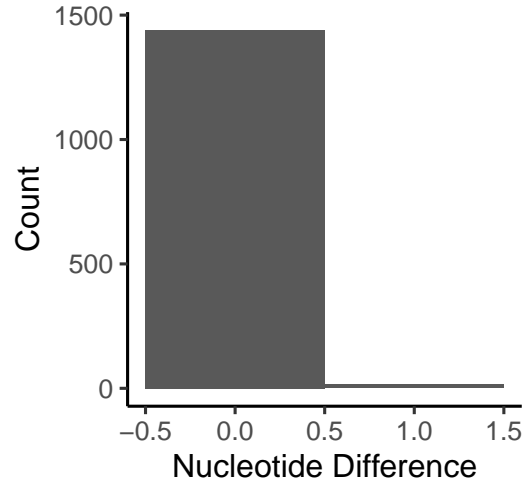
### TRBV14\*ap01

2369 sequences assigned  
2354 (99.4%) exact matches, in which:  
2323 unique CDR3  
13 unique J



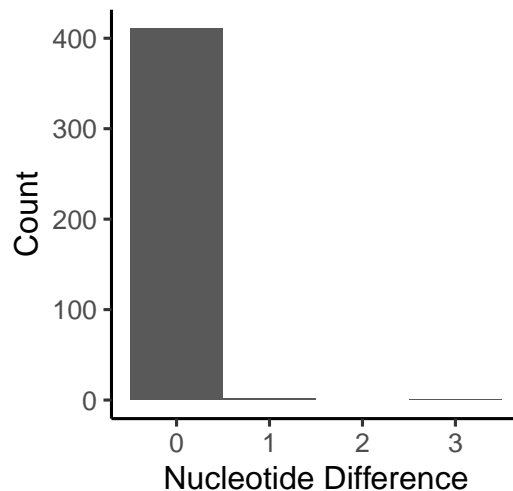
### TRBV20-1\*ap02

1455 sequences assigned  
1440 (99%) exact matches, in which:  
1416 unique CDR3  
13 unique J



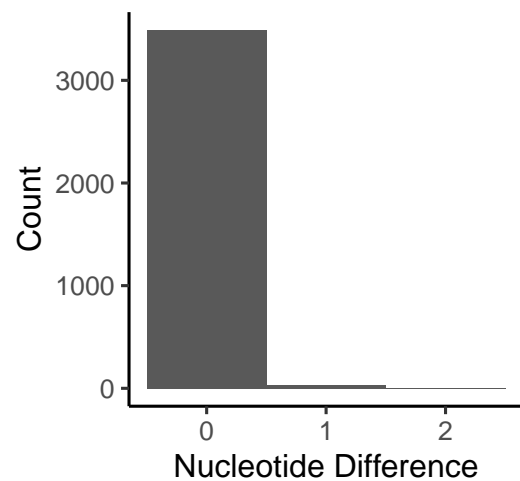
### TRBV1\*ap01

414 sequences assigned  
411 (99.3%) exact matches, in which:  
401 unique CDR3  
13 unique J



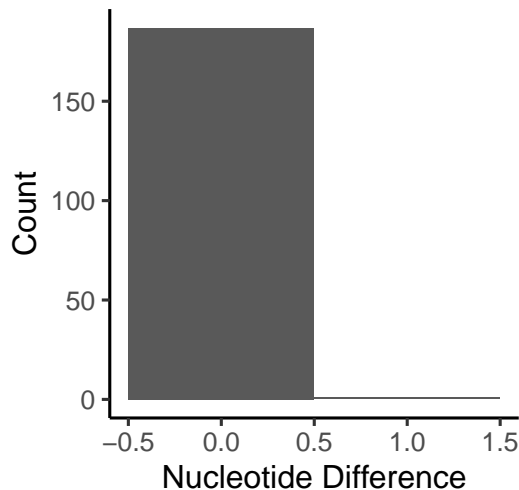
### TRBV15\*ap02

3526 sequences assigned  
3490 (99%) exact matches, in which:  
3404 unique CDR3  
13 unique J



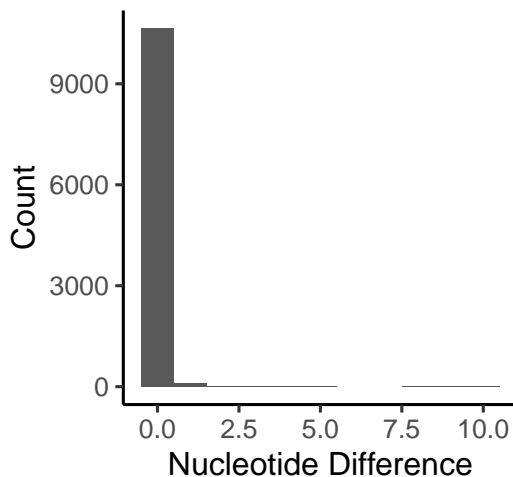
### TRBV16\*ap01

188 sequences assigned  
187 (99.5%) exact matches, in which:  
187 unique CDR3  
12 unique J



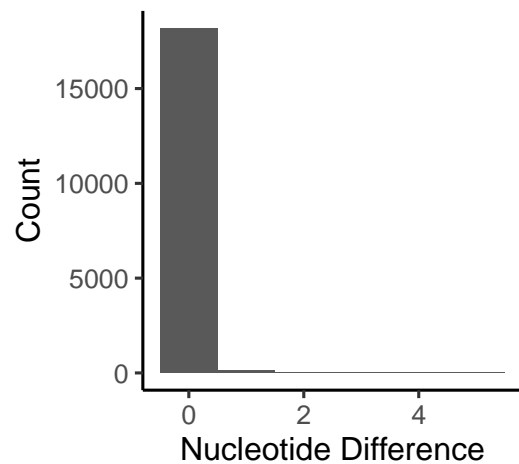
### TRBV19\*ap01

10766 sequences assigned  
10647 (98.9%) exact matches, in which:  
10558 unique CDR3  
13 unique J



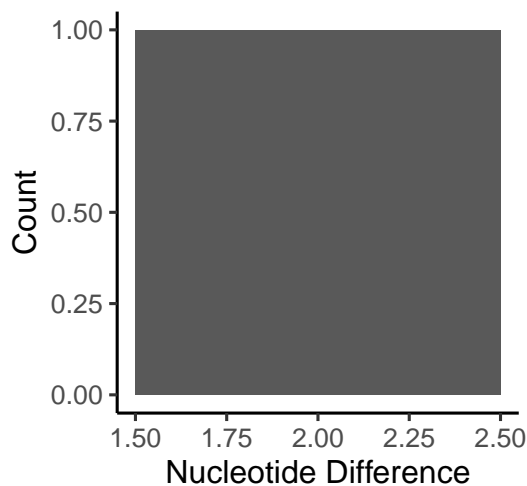
### TRBV28\*ap01

18325 sequences assigned  
18187 (99.2%) exact matches, in which:  
17905 unique CDR3  
13 unique J



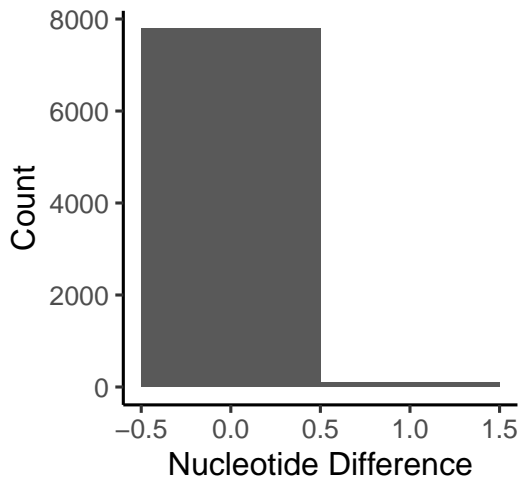
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



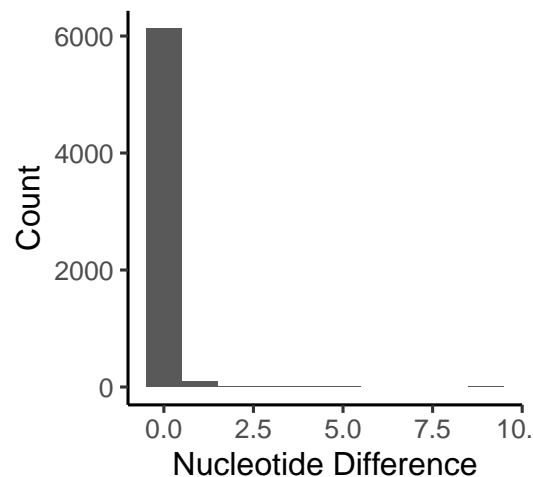
### TRBV2\*ap01

7887 sequences assigned  
7789 (98.8%) exact matches, in which:  
7620 unique CDR3  
13 unique J



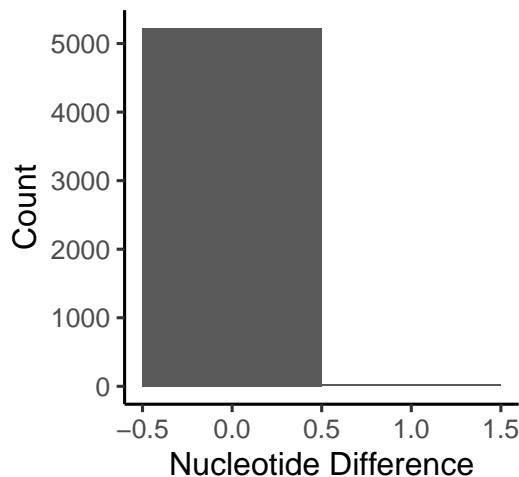
### TRBV30\*ap01

6228 sequences assigned  
6125 (98.3%) exact matches, in which:  
6029 unique CDR3  
13 unique J



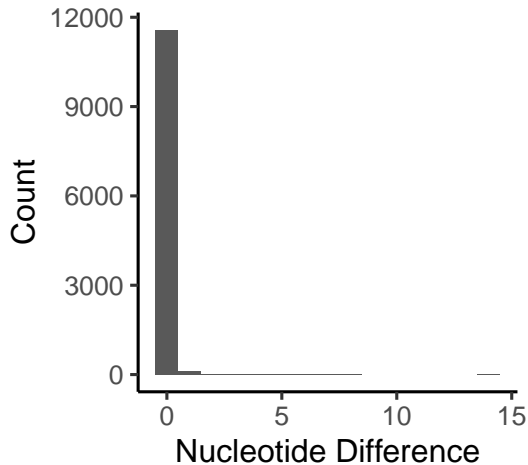
### TRBV18\*ap01

5255 sequences assigned  
5226 (99.4%) exact matches, in which:  
5178 unique CDR3  
13 unique J



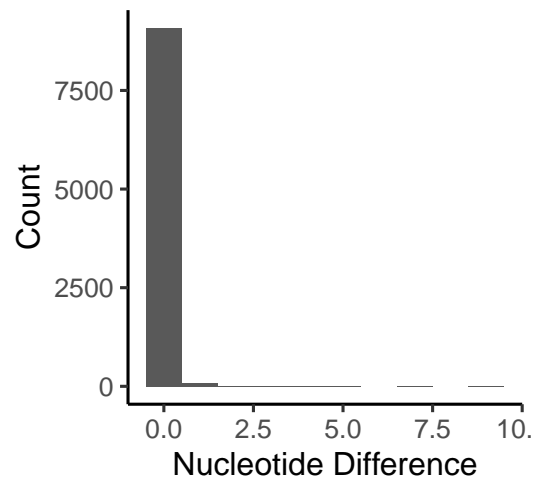
### TRBV27\*ap01

11725 sequences assigned  
11579 (98.8%) exact matches, in which:  
11319 unique CDR3  
13 unique J



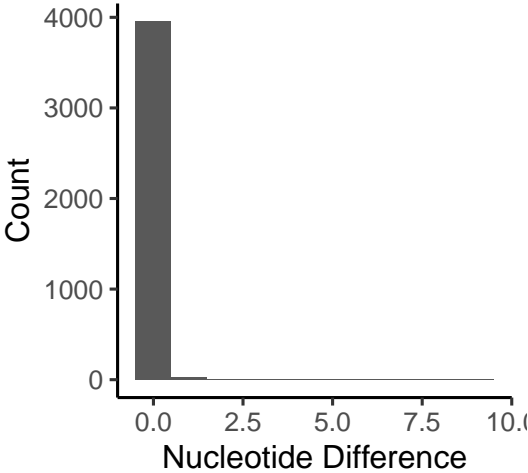
### TRBV9\*ap01

9178 sequences assigned  
9082 (99%) exact matches, in which:  
8950 unique CDR3  
13 unique J



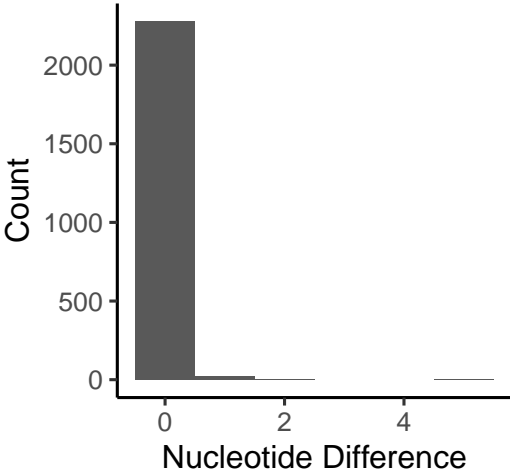
TRBV21-1\*ap01

4005 sequences assigned  
3955 (98.8%) exact matches, in which:  
3906 unique CDR3  
13 unique J



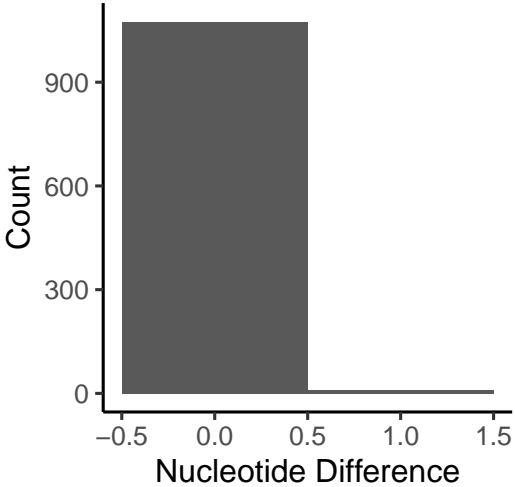
TRBV11-3\*ap01

2302 sequences assigned  
2278 (99%) exact matches, in which:  
2241 unique CDR3  
13 unique J



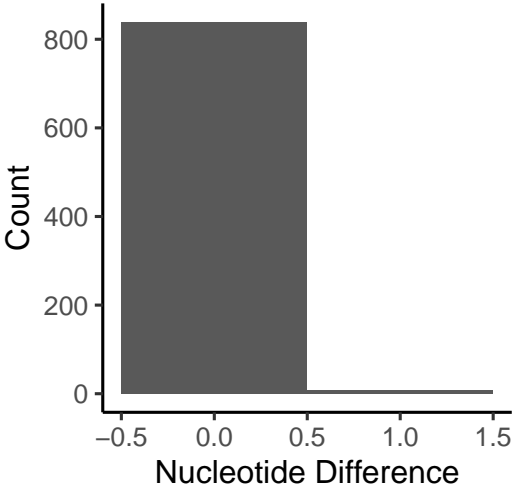
TRBV12-5\*ap01

1084 sequences assigned  
1075 (99.2%) exact matches, in which:  
1057 unique CDR3  
13 unique J



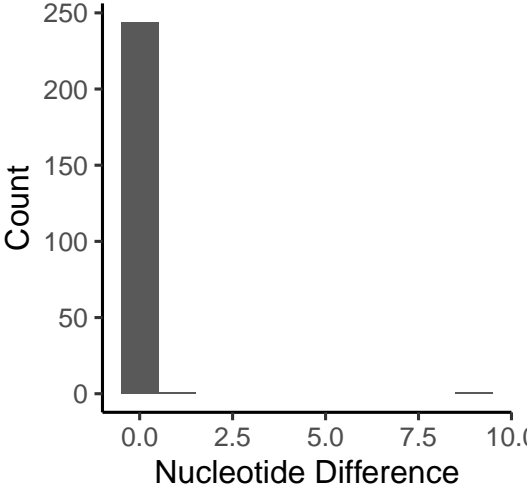
TRBV11-1\*ap01

847 sequences assigned  
839 (99.1%) exact matches, in which:  
825 unique CDR3  
13 unique J



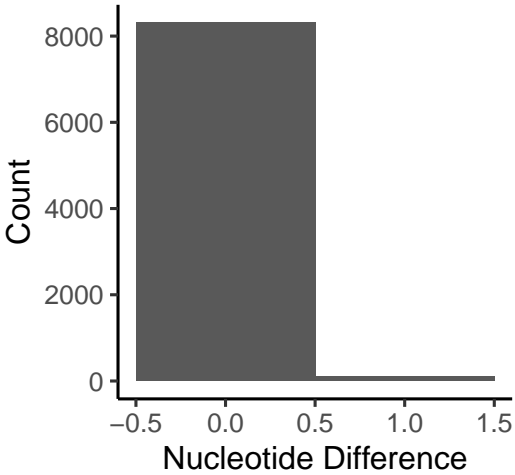
TRBV12-1\*ap01

246 sequences assigned  
244 (99.2%) exact matches, in which:  
239 unique CDR3  
12 unique J



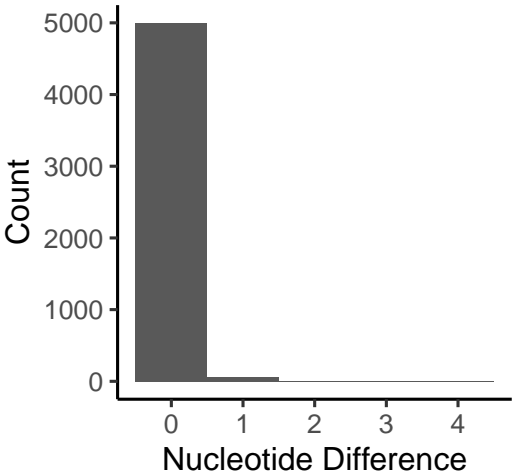
TRBV12-34\*ap01

8412 sequences assigned  
8310 (98.8%) exact matches, in which:  
8136 unique CDR3  
13 unique J



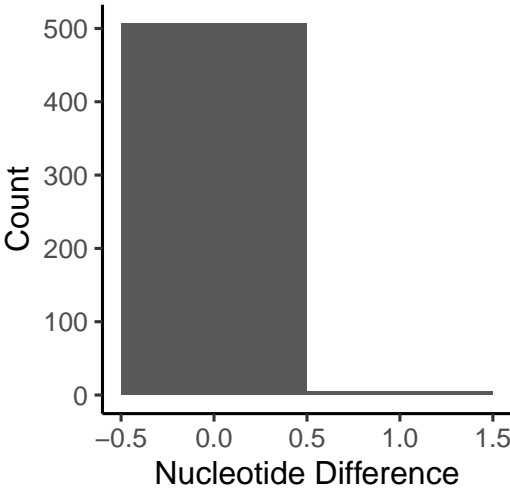
TRBV11-2\*ap01

5059 sequences assigned  
4997 (98.8%) exact matches, in which:  
4905 unique CDR3  
13 unique J



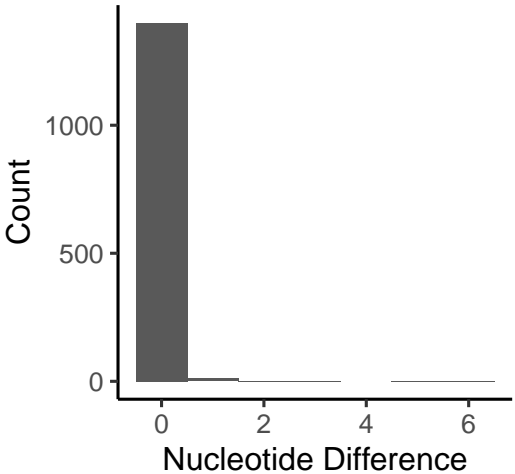
TRBV12-2\*ap01

512 sequences assigned  
507 (99%) exact matches, in which:  
503 unique CDR3  
13 unique J



TRBV23-1\*ap01

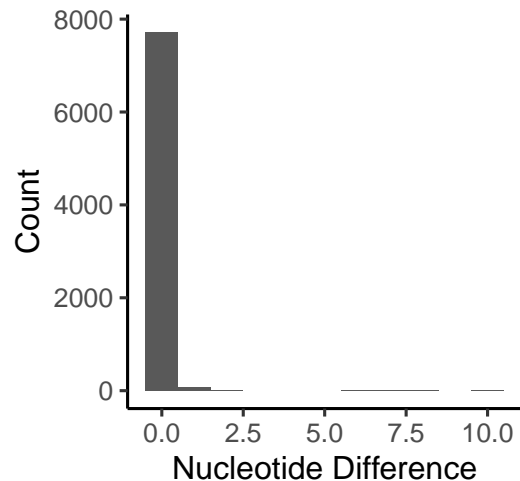
1415 sequences assigned  
1399 (98.9%) exact matches, in which:  
1385 unique CDR3  
13 unique J





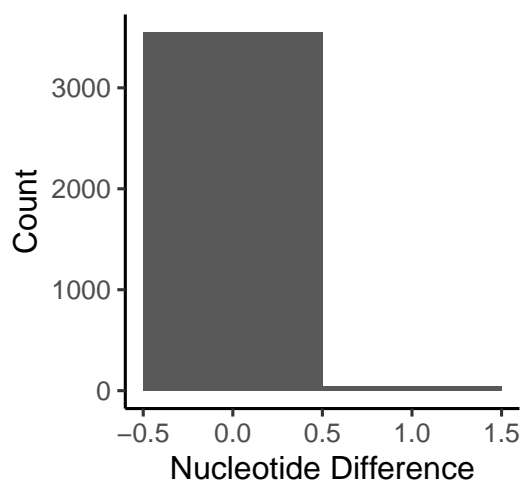
### TRBV3-12\*ap01

7807 sequences assigned  
7714 (98.8%) exact matches, in which:  
7547 unique CDR3  
13 unique J



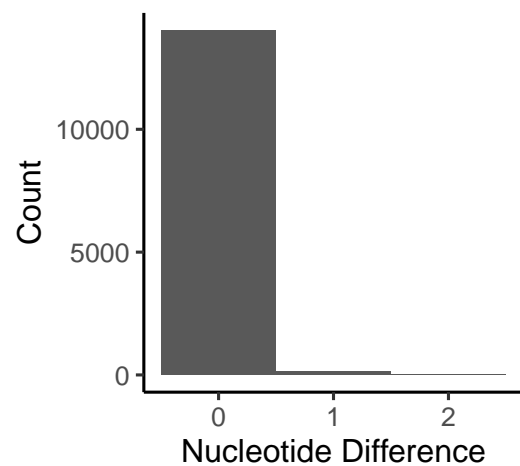
### TRBV4-2\*ap01

3594 sequences assigned  
3549 (98.7%) exact matches, in which:  
3477 unique CDR3  
13 unique J



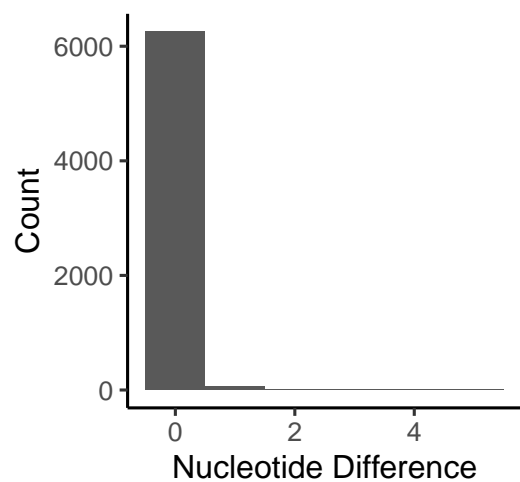
### TRBV5-1\*ap01

14189 sequences assigned  
14037 (98.9%) exact matches, in which:  
13726 unique CDR3  
13 unique J



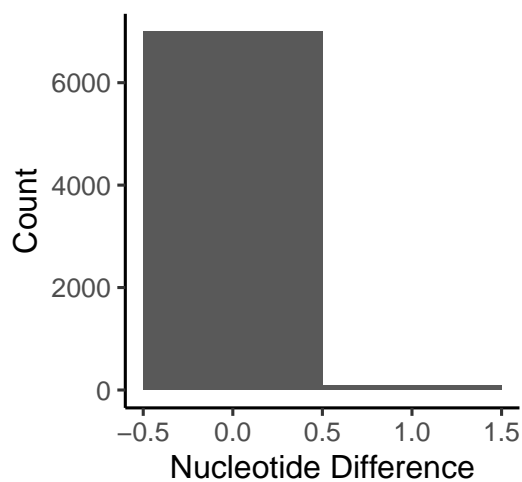
### TRBV24-1\*ap01

6328 sequences assigned  
6253 (98.8%) exact matches, in which:  
6154 unique CDR3  
13 unique J



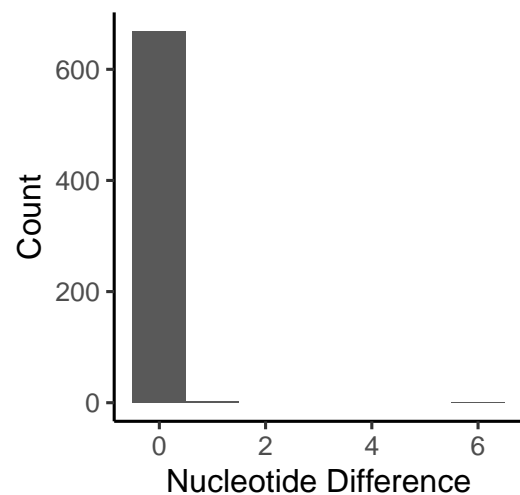
### TRBV4-3\*ap01

7078 sequences assigned  
6995 (98.8%) exact matches, in which:  
6839 unique CDR3  
13 unique J



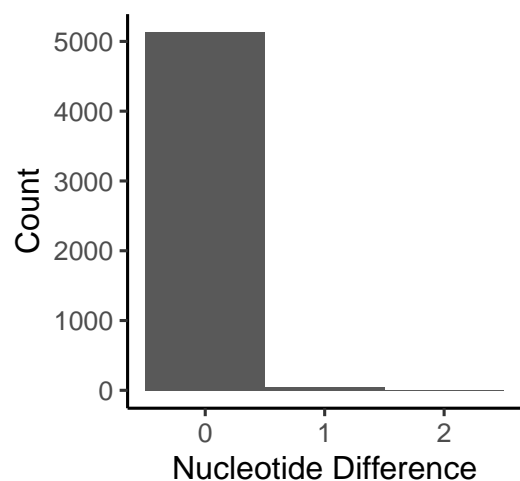
### TRBV5-3\*ap01

673 sequences assigned  
669 (99.4%) exact matches, in which:  
662 unique CDR3  
13 unique J



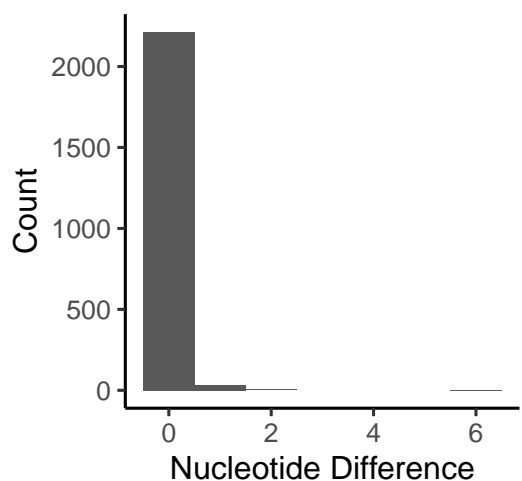
### TRBV4-1\*ap01

5181 sequences assigned  
5134 (99.1%) exact matches, in which:  
5015 unique CDR3  
13 unique J



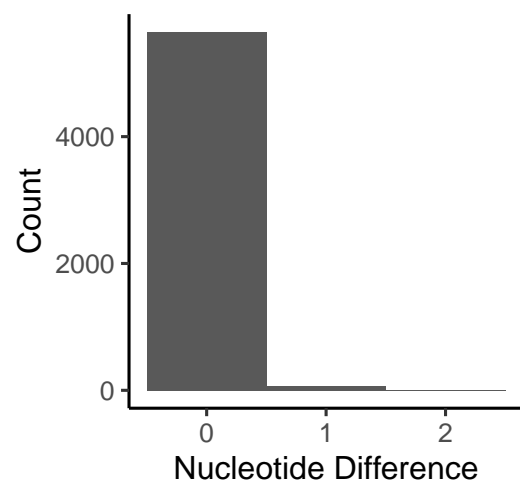
### TRBV25-1\*ap01

2249 sequences assigned  
2213 (98.4%) exact matches, in which:  
2173 unique CDR3  
13 unique J



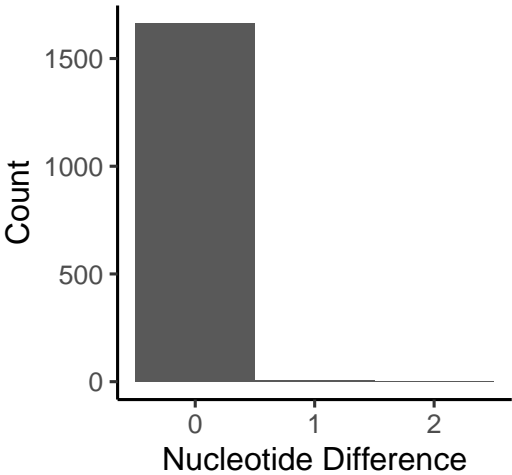
### TRBV5-4\*ap01

5716 sequences assigned  
5649 (98.8%) exact matches, in which:  
5529 unique CDR3  
13 unique J



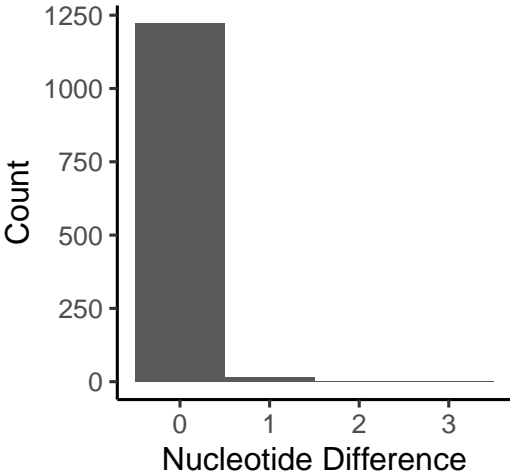
TRBV5-5\*ap01

1670 sequences assigned  
1663 (99.6%) exact matches, in which:  
1648 unique CDR3  
13 unique J



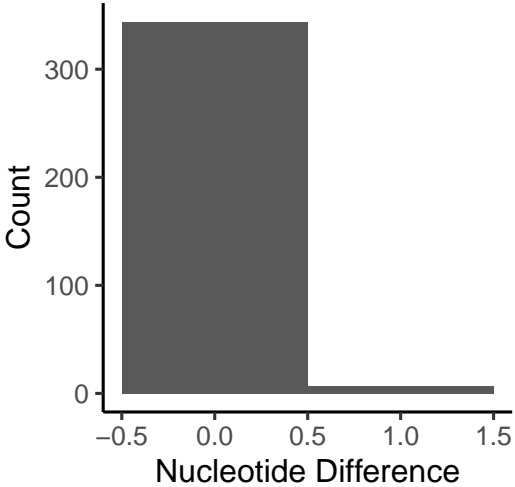
TRBV5-8\*ap01

1240 sequences assigned  
1222 (98.5%) exact matches, in which:  
1206 unique CDR3  
13 unique J



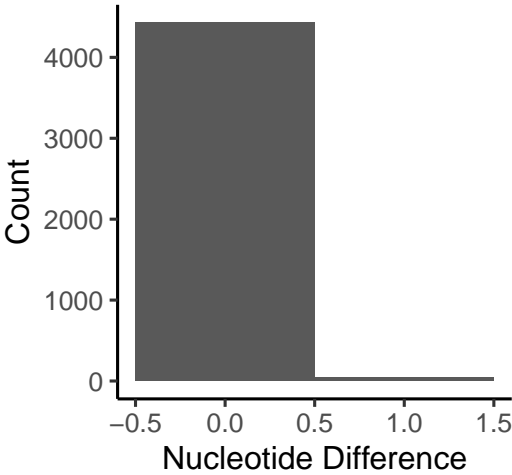
TRBV6-7\*ap01

351 sequences assigned  
344 (98%) exact matches, in which:  
333 unique CDR3  
13 unique J



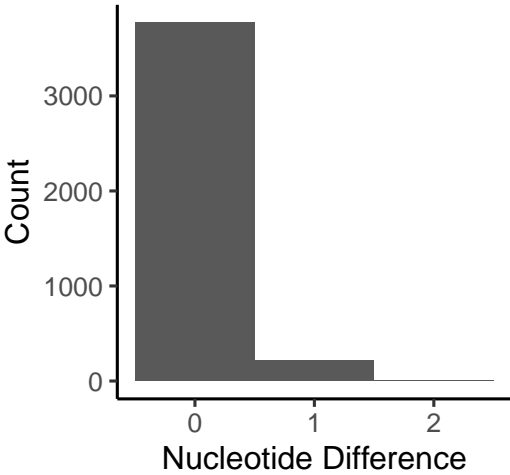
TRBV5-6\*ap01

4477 sequences assigned  
4428 (98.9%) exact matches, in which:  
4316 unique CDR3  
13 unique J



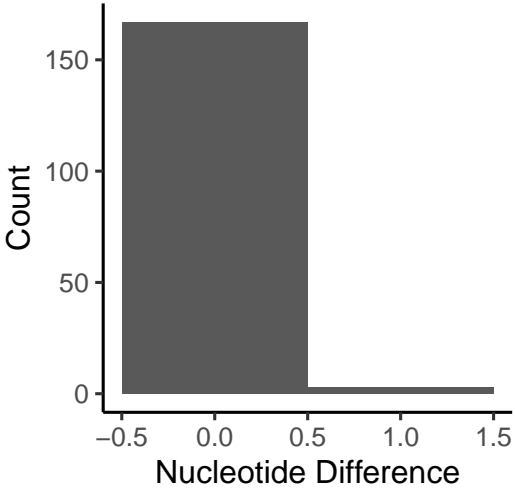
TRBV6-1\*ap01

3991 sequences assigned  
3770 (94.5%) exact matches, in which:  
3684 unique CDR3  
13 unique J



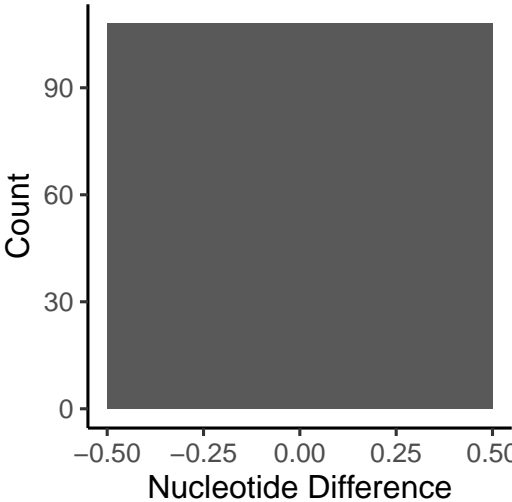
TRBV6-8\*ap01

170 sequences assigned  
167 (98.2%) exact matches, in which:  
162 unique CDR3  
12 unique J



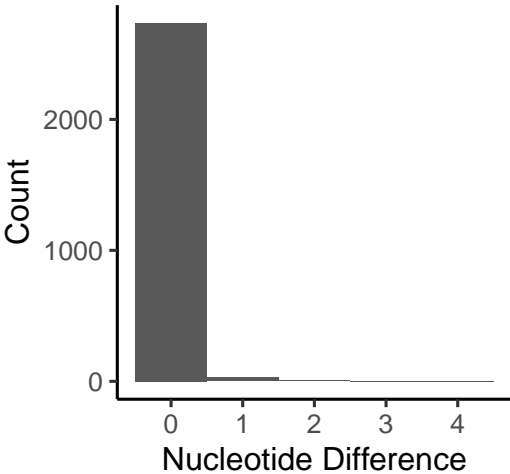
TRBV5-7\*ap01

108 sequences assigned  
108 (100%) exact matches, in which:  
106 unique CDR3  
13 unique J



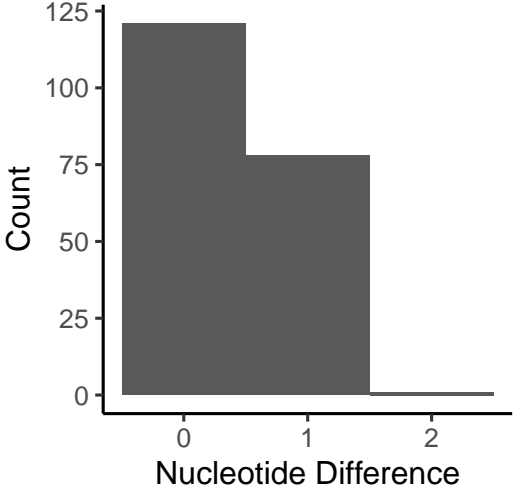
TRBV6-4\*ap01

2775 sequences assigned  
2736 (98.6%) exact matches, in which:  
2685 unique CDR3  
13 unique J



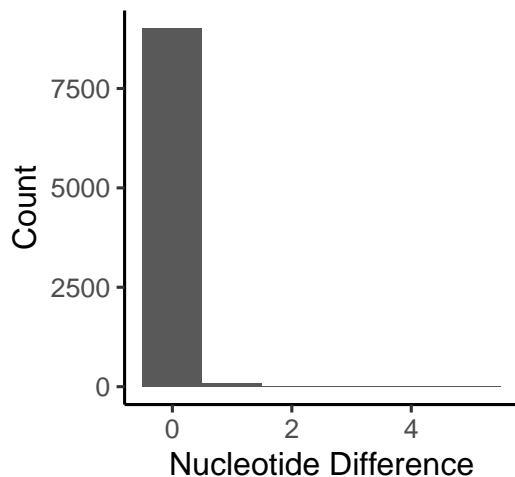
TRBV6-9\*ap01

200 sequences assigned  
121 (60.5%) exact matches, in which:  
118 unique CDR3  
13 unique J



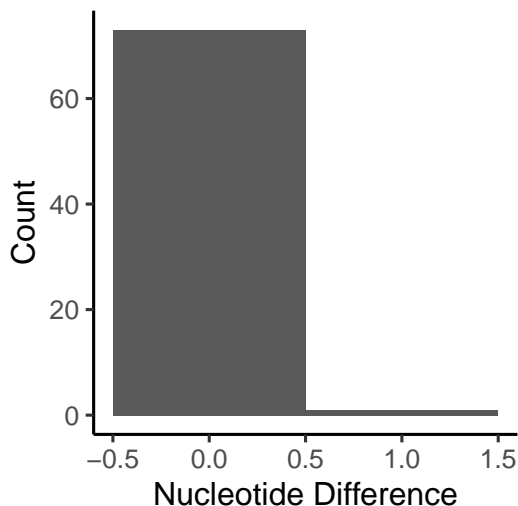
### TRBV6-23\*ap01

9101 sequences assigned  
9011 (99%) exact matches, in which:  
8733 unique CDR3  
13 unique J



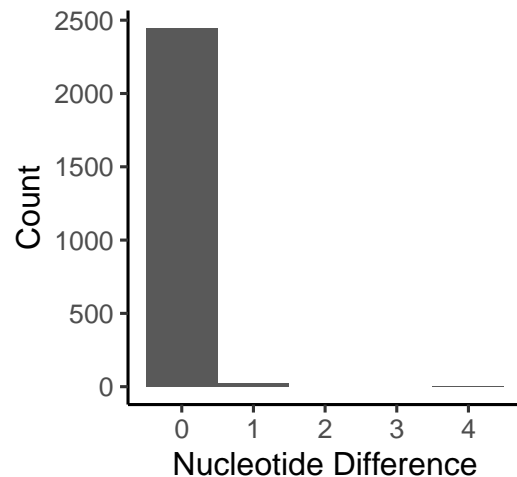
### TRBV7-1\*ap01\_G291C\_T

74 sequences assigned  
73 (98.6%) exact matches, in which:  
72 unique CDR3  
12 unique J



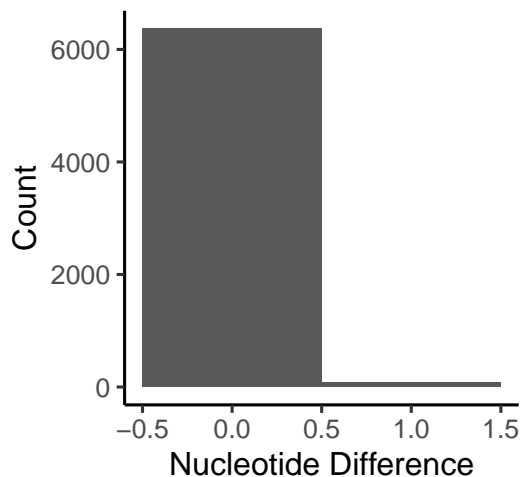
### TRBV7-3\*ap01

2469 sequences assigned  
2444 (99%) exact matches, in which:  
2403 unique CDR3  
13 unique J



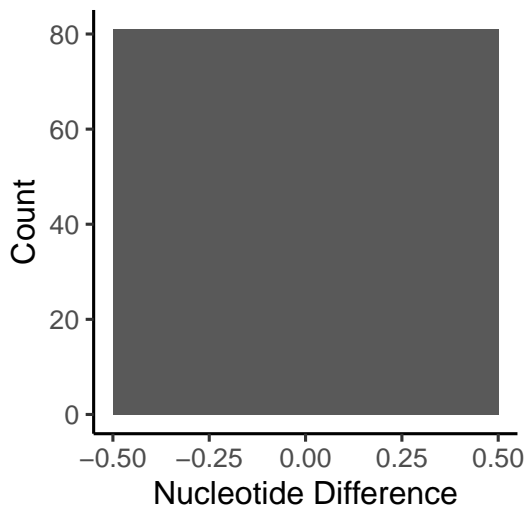
### TRBV6-56\*ap01

6447 sequences assigned  
6368 (98.8%) exact matches, in which:  
6201 unique CDR3  
13 unique J



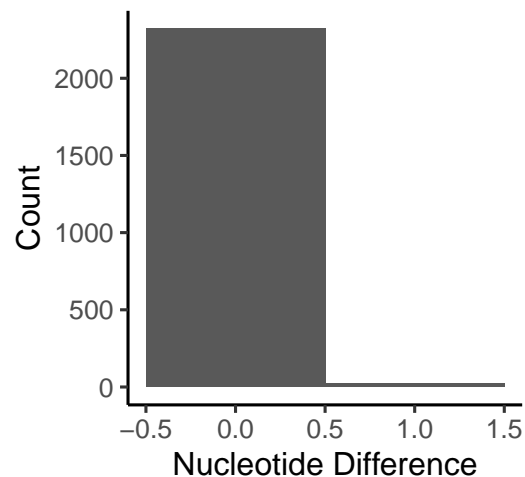
### TRBV7-1\*ap01\_G291C\_T

81 sequences assigned  
81 (100%) exact matches, in which:  
80 unique CDR3  
13 unique J



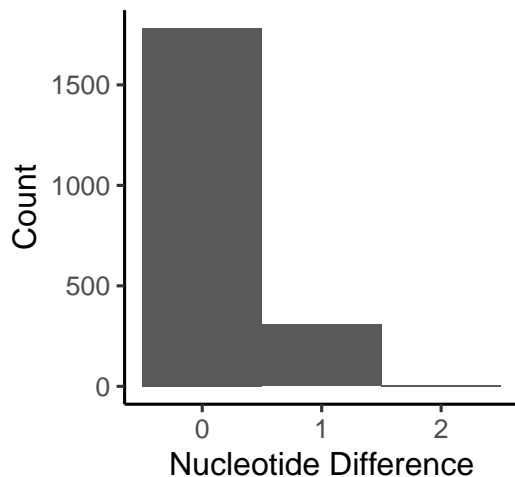
### TRBV7-3\*ap01\_G301A

2342 sequences assigned  
2321 (99.1%) exact matches, in which:  
2288 unique CDR3  
13 unique J



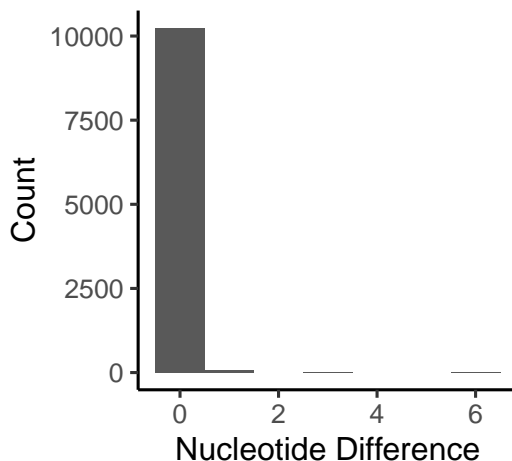
### TRBV6-56\*ap02

2096 sequences assigned  
1783 (85.1%) exact matches, in which:  
1734 unique CDR3  
13 unique J



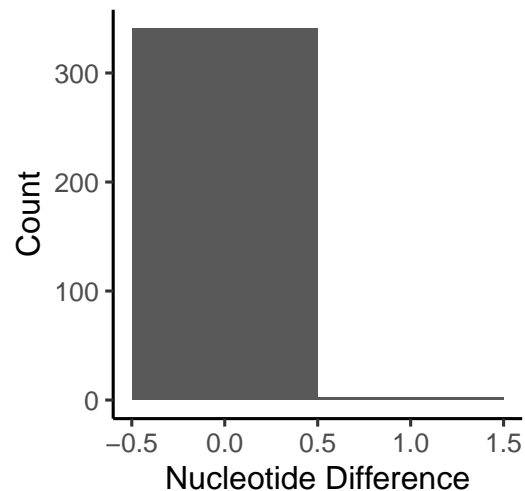
### TRBV7-2\*ap01

10316 sequences assigned  
10245 (99.3%) exact matches, in which:  
10088 unique CDR3  
13 unique J



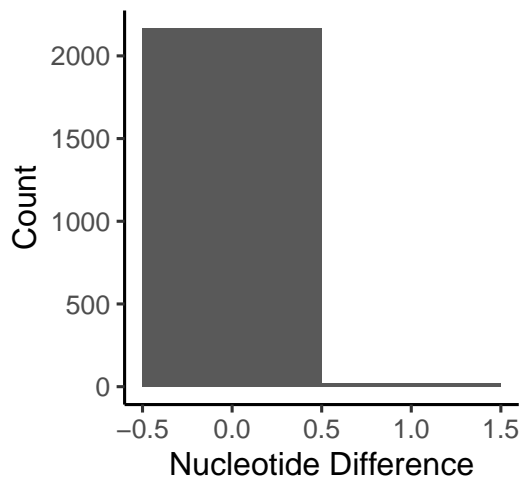
### TRBV7-4\*ap01

343 sequences assigned  
341 (99.4%) exact matches, in which:  
331 unique CDR3  
13 unique J



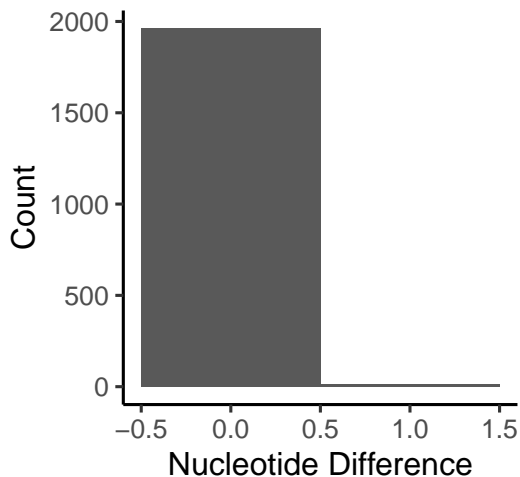
### TRBV7-6\*ap01

2188 sequences assigned  
2166 (99%) exact matches, in which:  
2126 unique CDR3  
13 unique J



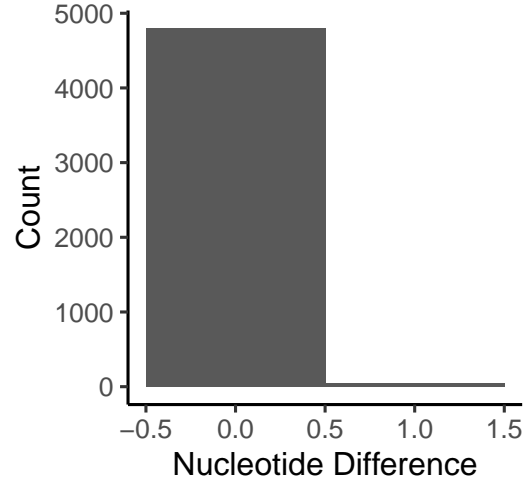
### TRBV7-8\*ap01

1978 sequences assigned  
1962 (99.2%) exact matches, in which:  
1923 unique CDR3  
13 unique J



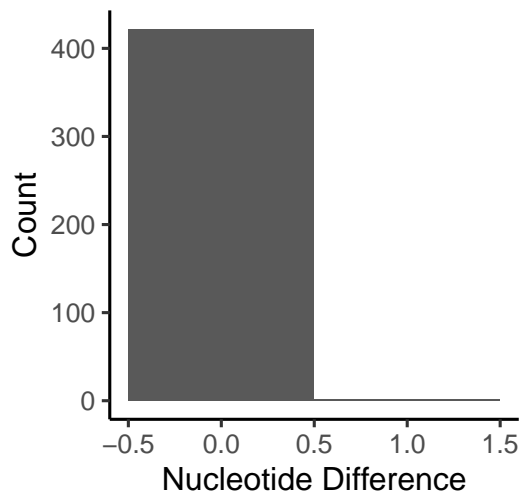
### TRBV29-1\*ap01

4846 sequences assigned  
4797 (99%) exact matches, in which:  
4705 unique CDR3  
13 unique J



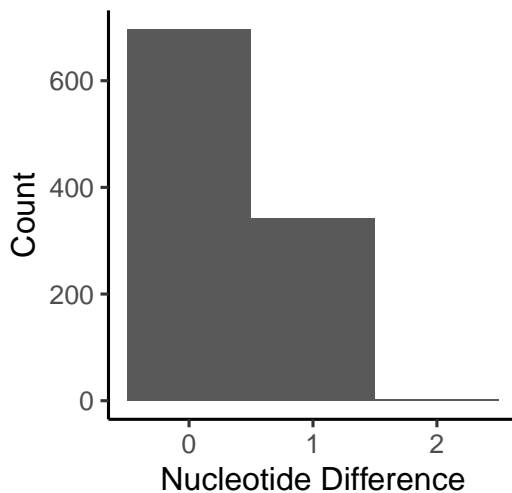
### TRBV7-7\*ap01

424 sequences assigned  
422 (99.5%) exact matches, in which:  
416 unique CDR3  
13 unique J



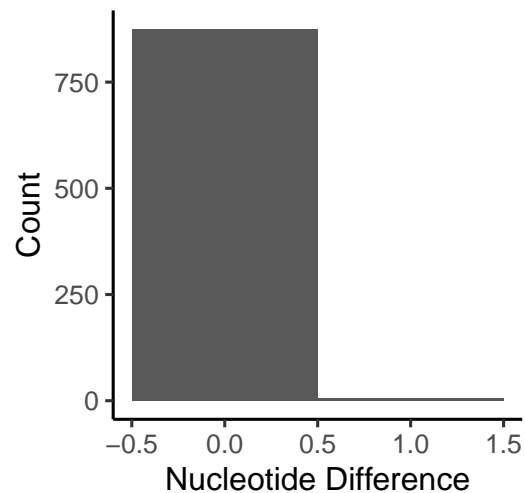
### TRBV7-8\*ap03

1042 sequences assigned  
697 (66.9%) exact matches, in which:  
682 unique CDR3  
13 unique J



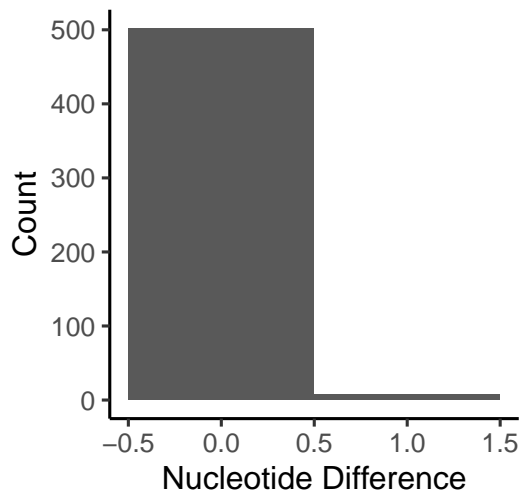
### TRBV29-1\*ap02

880 sequences assigned  
875 (99.4%) exact matches, in which:  
859 unique CDR3  
13 unique J



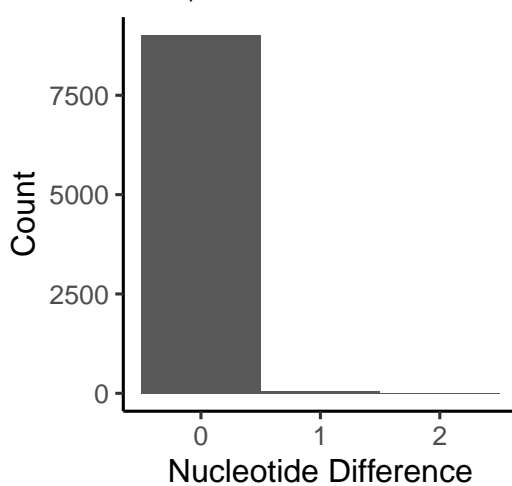
### TRBV7-7\*ap01\_C315T

509 sequences assigned  
502 (98.6%) exact matches, in which:  
493 unique CDR3  
12 unique J

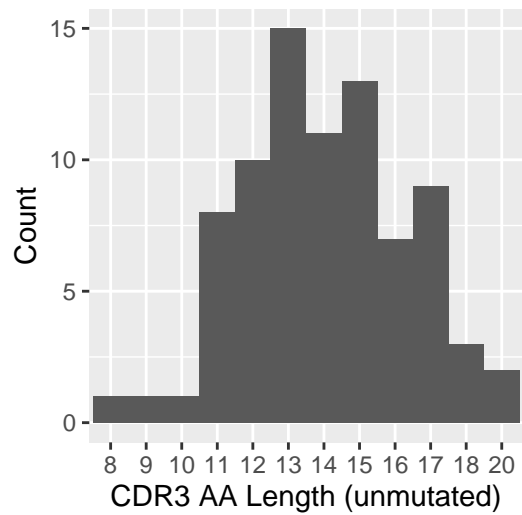


### TRBV7-9\*ap01

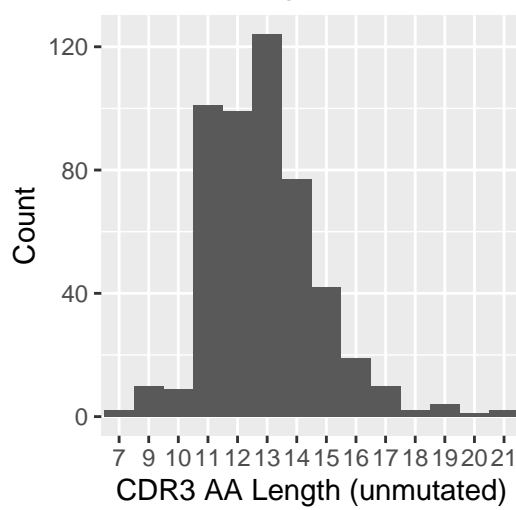
9077 sequences assigned  
9016 (99.3%) exact matches, in which:  
8876 unique CDR3  
13 unique J



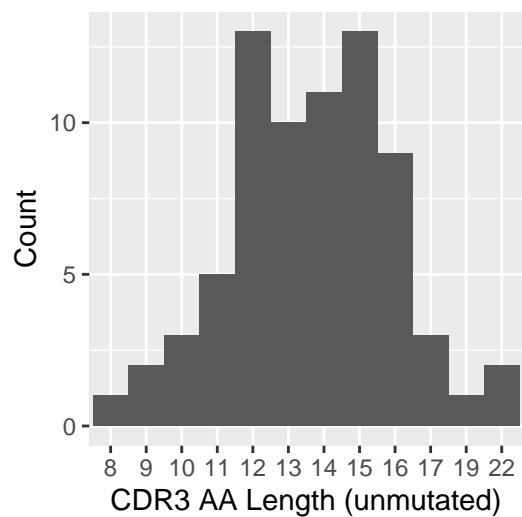
TRBV7-1\*ap01\_G291C\_T29



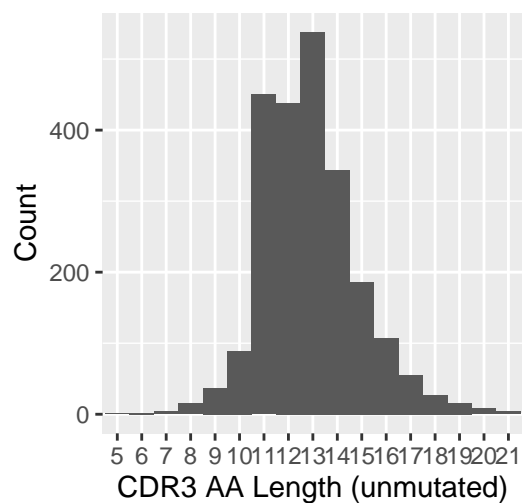
TRBV7-7\*ap01\_C315T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-3\*ap01\_G301A





[illegible]