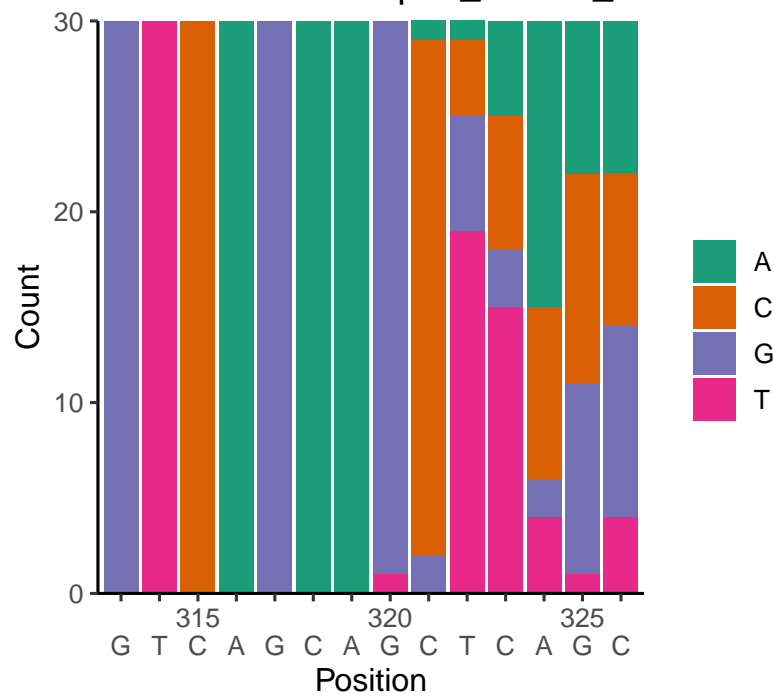
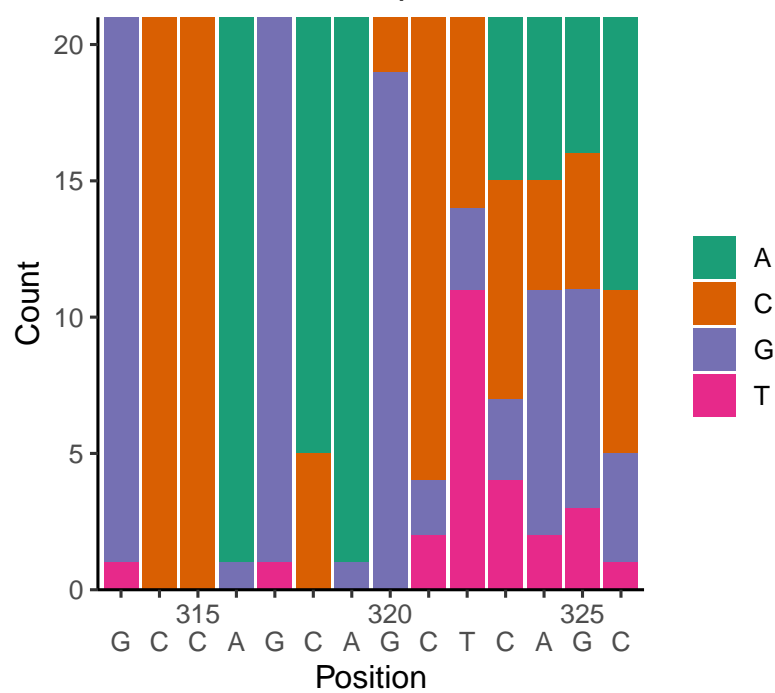


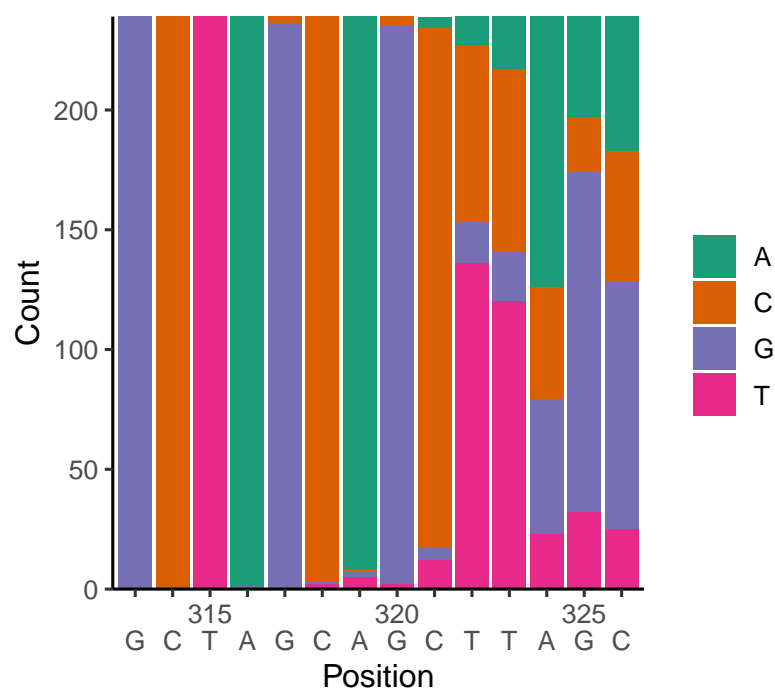
Gene TRBV7-1\*ap01\_T296C\_C314T



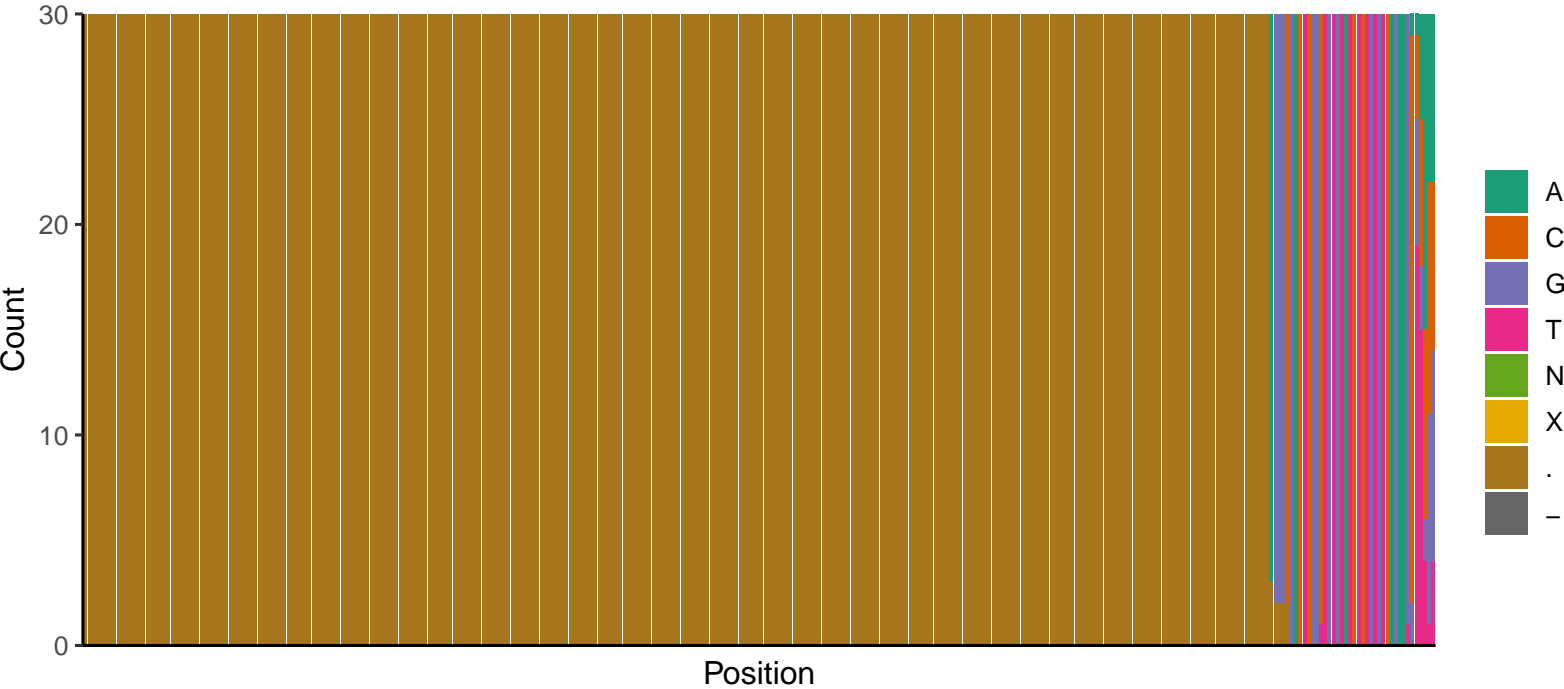
Gene TRBV7-1\*ap01\_T296C



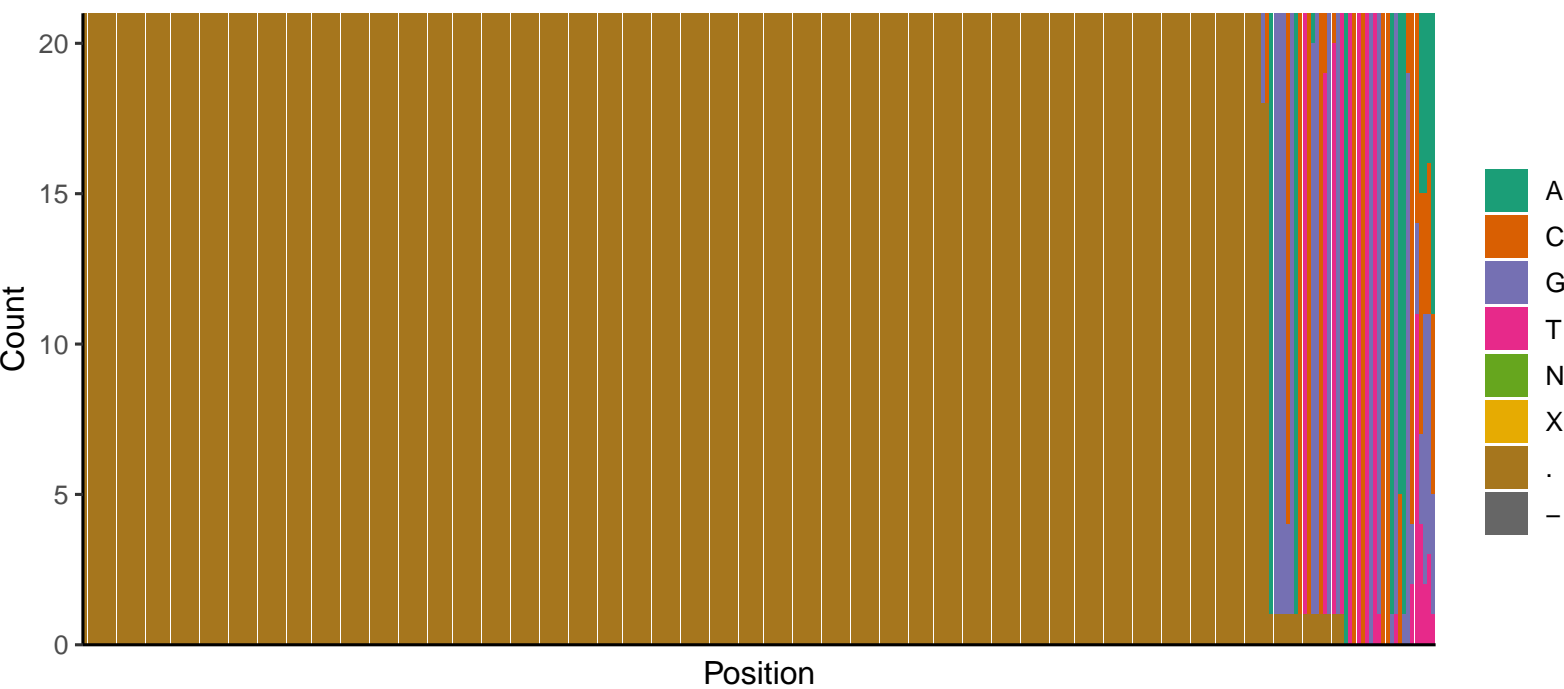
Gene TRBV7-7\*ap01\_C315T



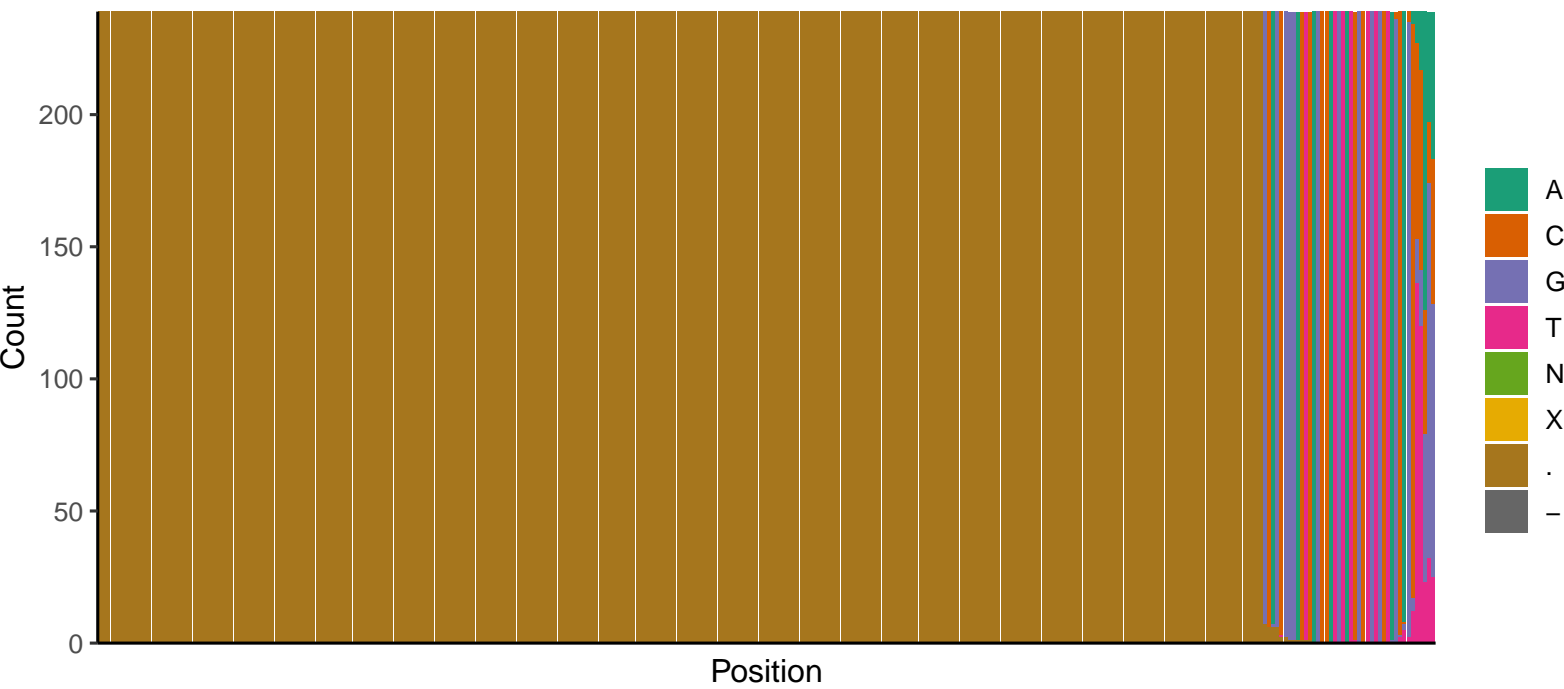
Gene TRBV7-1\*ap01\_T296C\_C314T



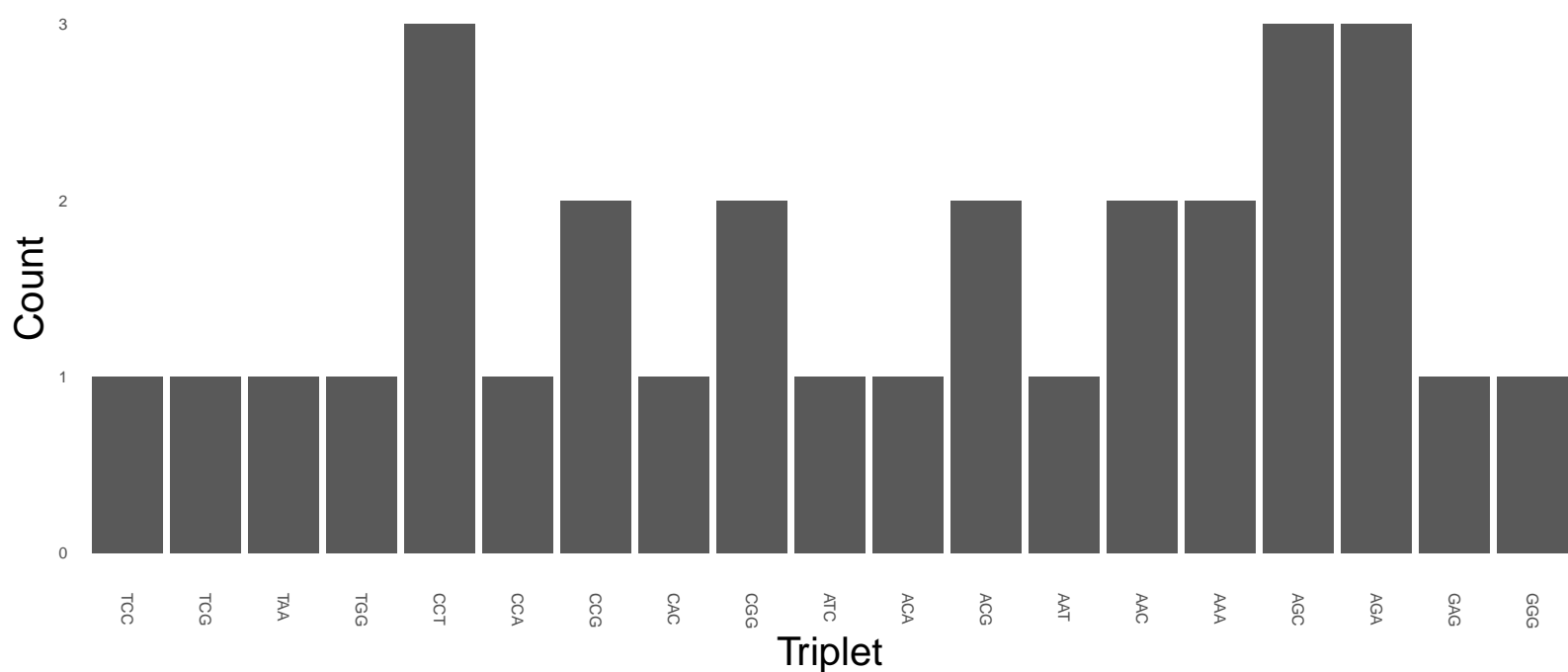
Gene TRBV7-1\*ap01\_T296C



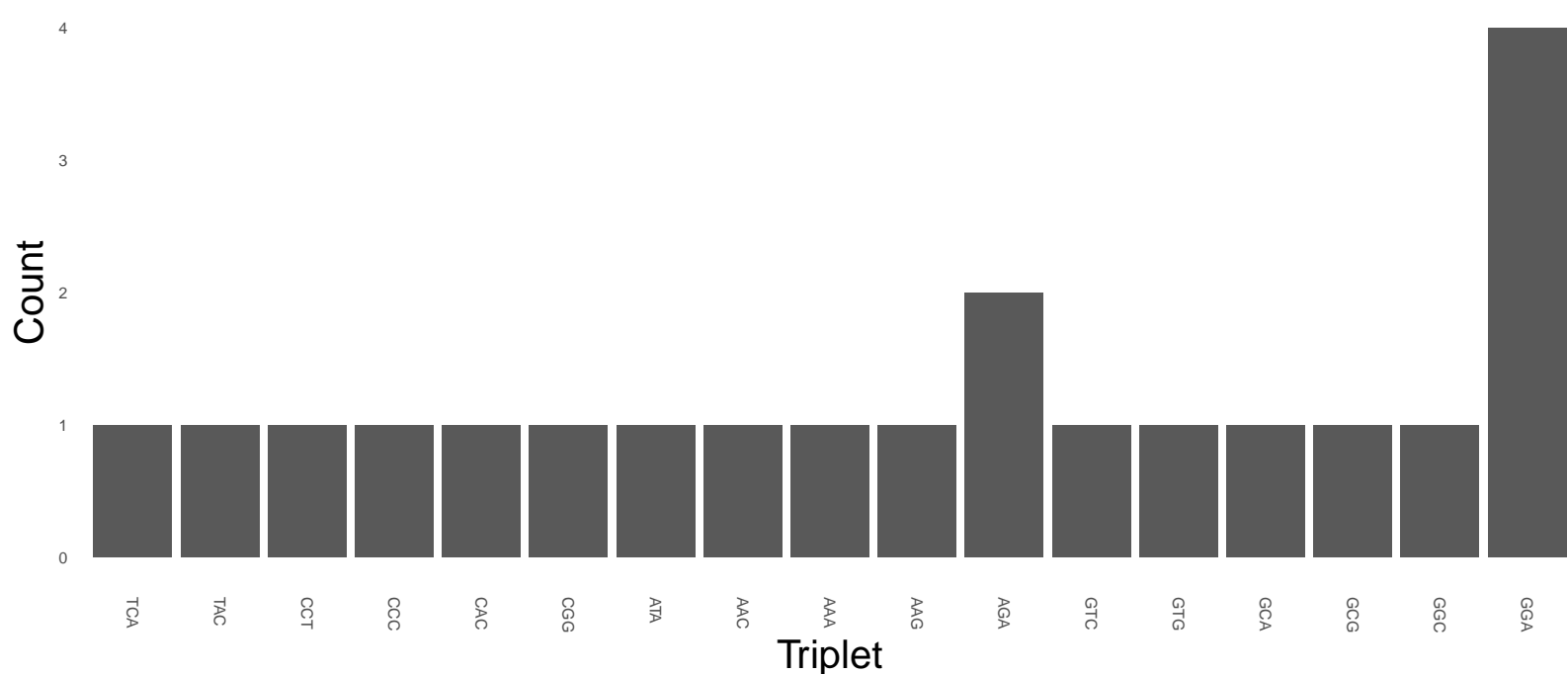
Gene TRBV7-7\*ap01\_C315T



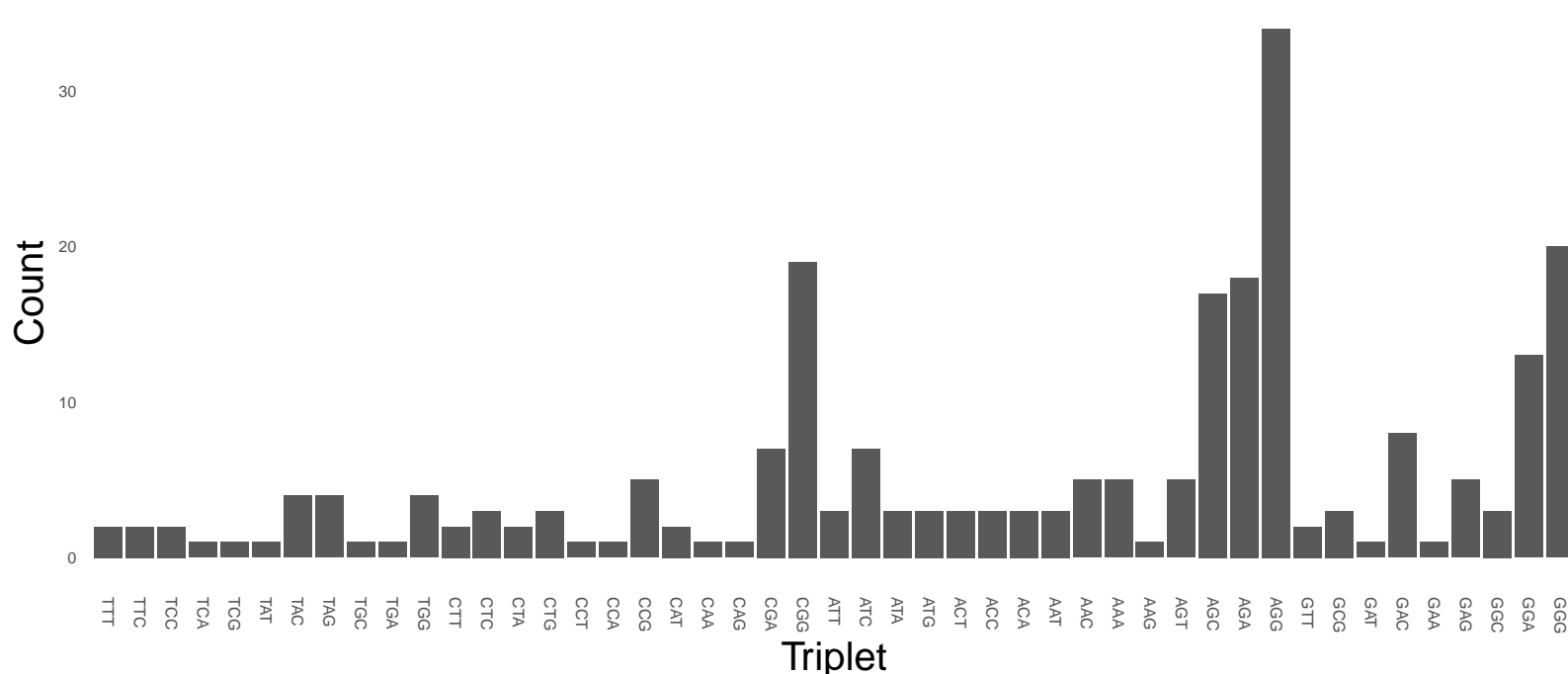
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

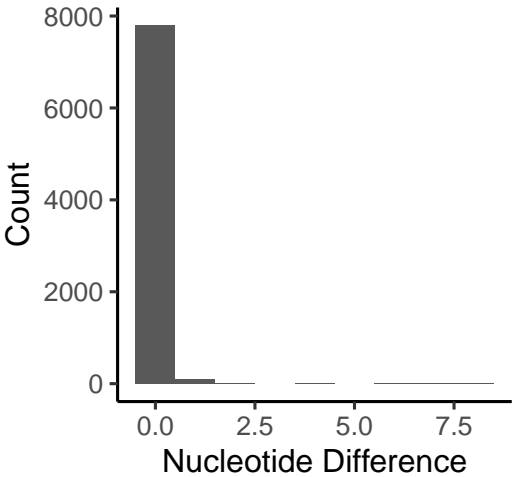


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



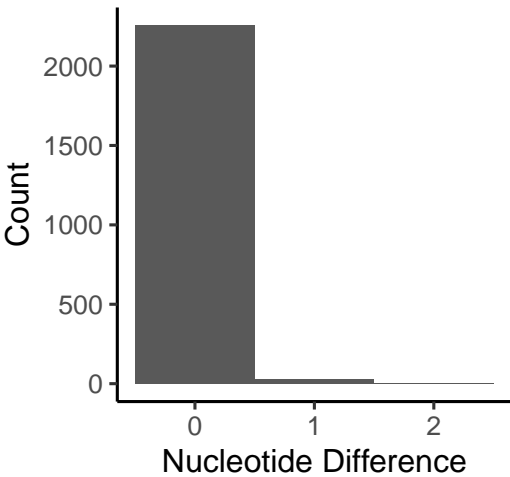
TRBV20-1\*ap01

7913 sequences assigned  
7796 (98.5%) exact matches, in which:  
7700 unique CDR3  
14 unique J



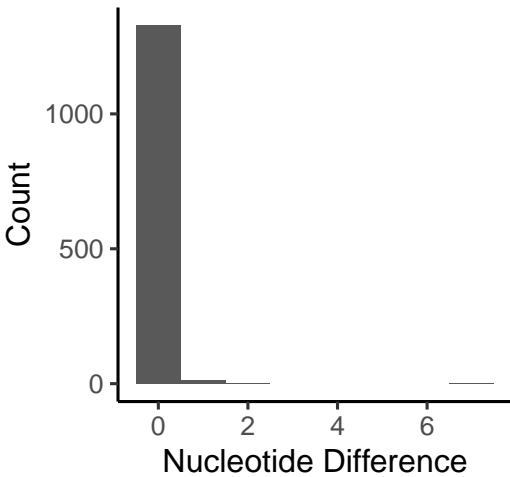
TRBV10-3\*ap01

2286 sequences assigned  
2256 (98.7%) exact matches, in which:  
2221 unique CDR3  
14 unique J



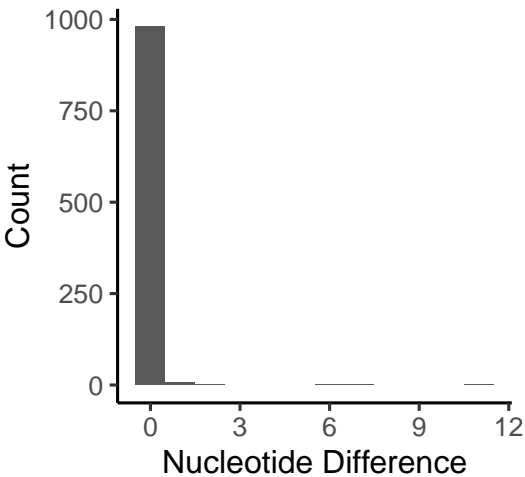
TRBV14\*ap01

1342 sequences assigned  
1328 (99%) exact matches, in which:  
1309 unique CDR3  
14 unique J



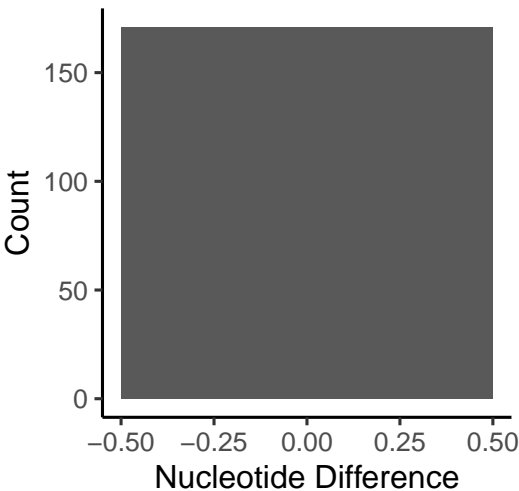
TRBV10-1\*ap01

991 sequences assigned  
980 (98.9%) exact matches, in which:  
959 unique CDR3  
14 unique J



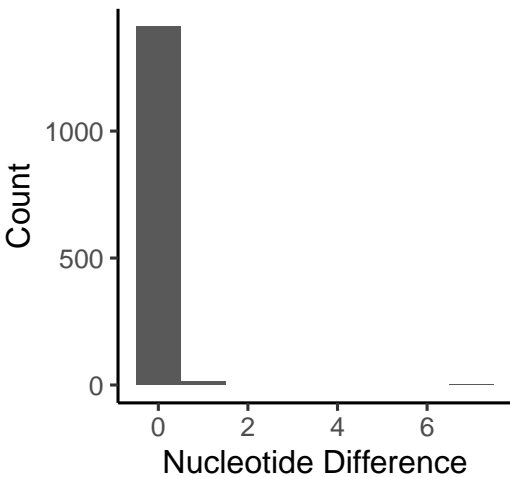
TRBV1\*ap01

171 sequences assigned  
171 (100%) exact matches, in which:  
170 unique CDR3  
14 unique J



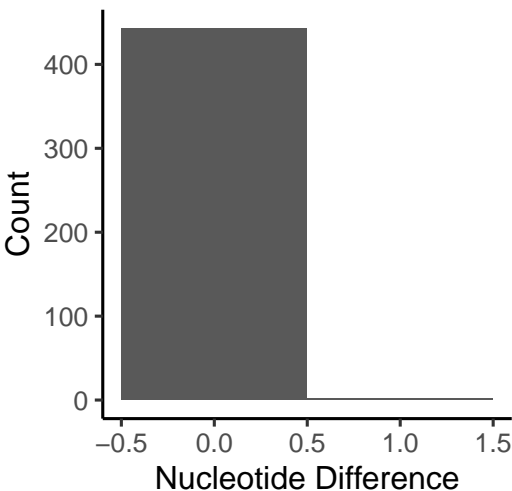
TRBV15\*ap02

1424 sequences assigned  
1411 (99.1%) exact matches, in which:  
1388 unique CDR3  
14 unique J



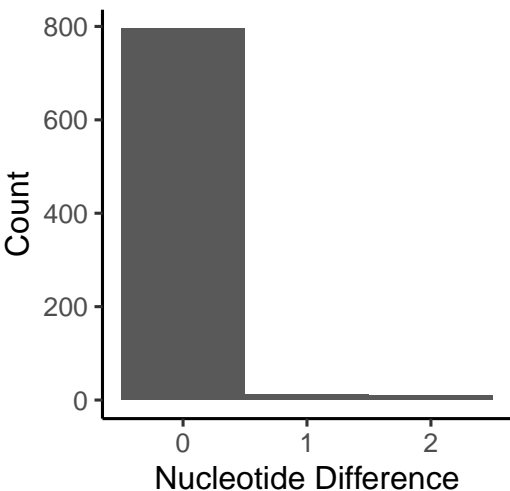
TRBV10-2\*ap01

445 sequences assigned  
443 (99.6%) exact matches, in which:  
431 unique CDR3  
14 unique J



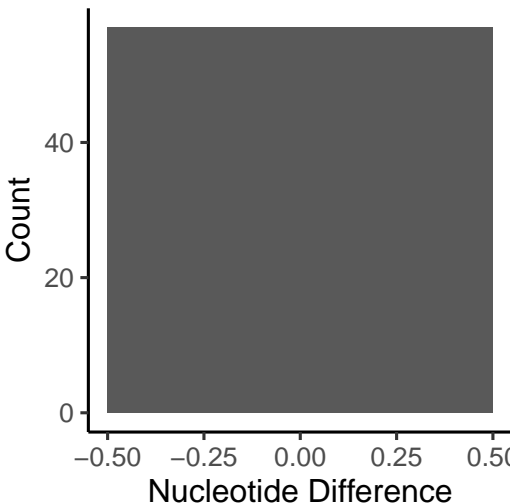
TRBV13\*ap01

817 sequences assigned  
796 (97.4%) exact matches, in which:  
784 unique CDR3  
14 unique J



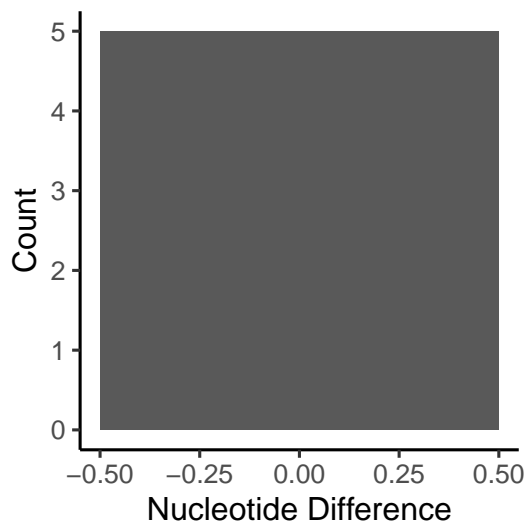
TRBV16\*ap01

57 sequences assigned  
57 (100%) exact matches, in which:  
57 unique CDR3  
13 unique J



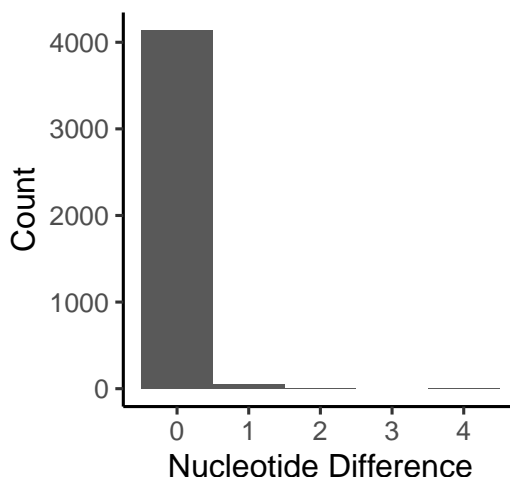
### TRBV17\*ap01

5 sequences assigned  
5 (100%) exact matches, in which:  
5 unique CDR3  
4 unique J



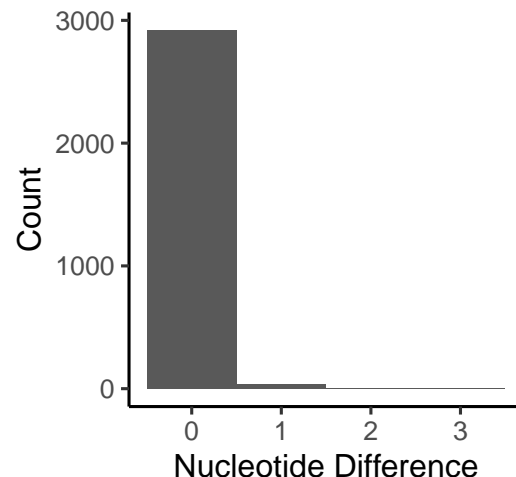
### TRBV2\*ap01

4196 sequences assigned  
4137 (98.6%) exact matches, in which:  
4089 unique CDR3  
14 unique J



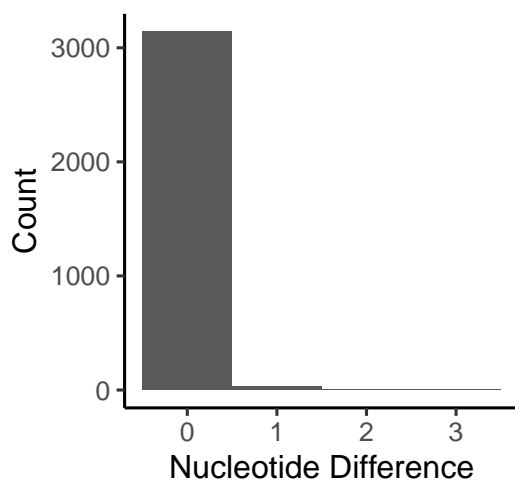
### TRBV30\*ap01

2958 sequences assigned  
2918 (98.6%) exact matches, in which:  
2891 unique CDR3  
13 unique J



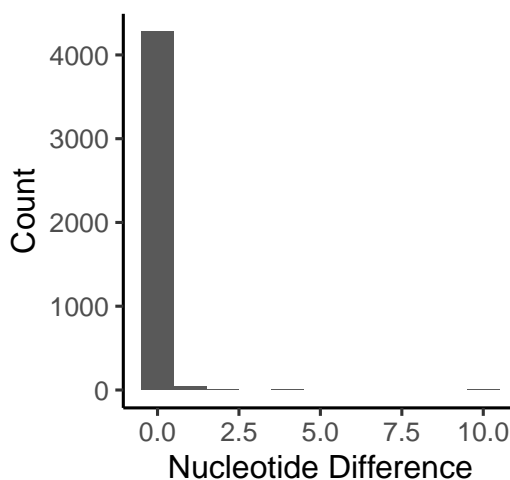
### TRBV18\*ap01

3172 sequences assigned  
3141 (99%) exact matches, in which:  
3100 unique CDR3  
14 unique J



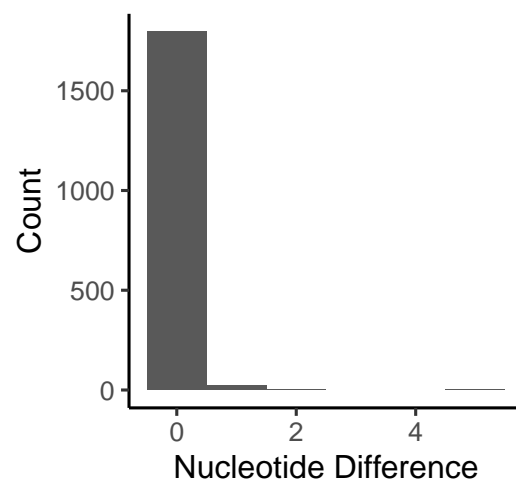
### TRBV27\*ap01

4328 sequences assigned  
4277 (98.8%) exact matches, in which:  
4205 unique CDR3  
14 unique J



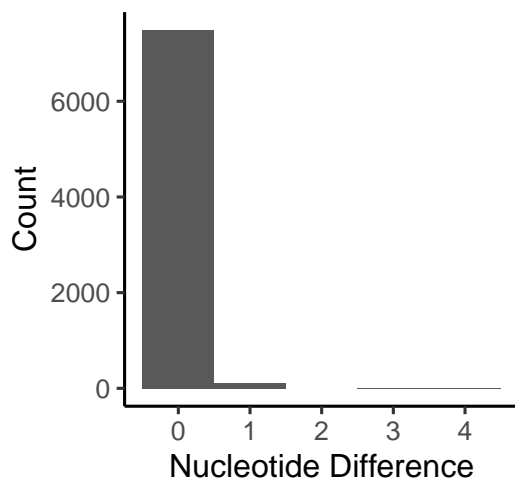
### TRBV30\*ap02

1822 sequences assigned  
1796 (98.6%) exact matches, in which:  
1779 unique CDR3  
14 unique J



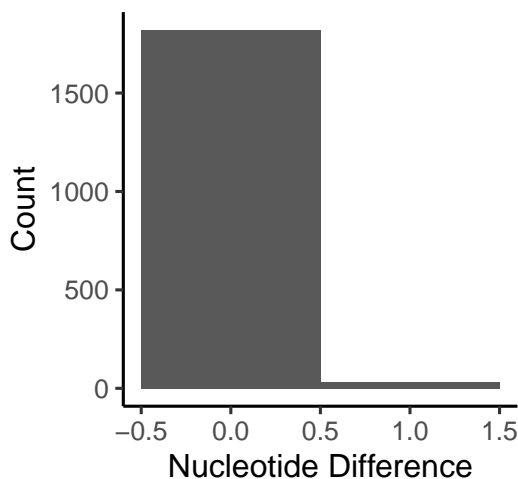
### TRBV19\*ap01

7609 sequences assigned  
7489 (98.4%) exact matches, in which:  
7421 unique CDR3  
14 unique J



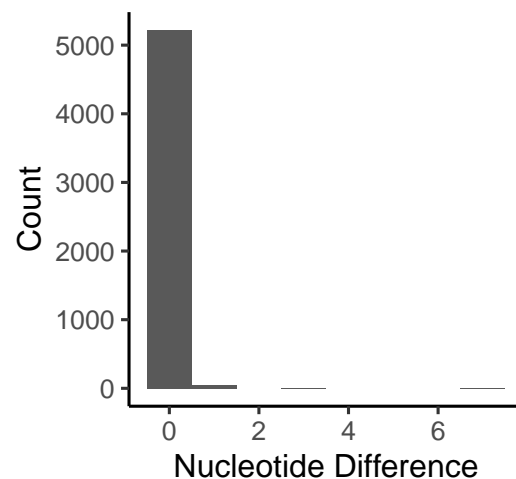
### TRBV28\*ap01

1851 sequences assigned  
1820 (98.3%) exact matches, in which:  
1789 unique CDR3  
14 unique J



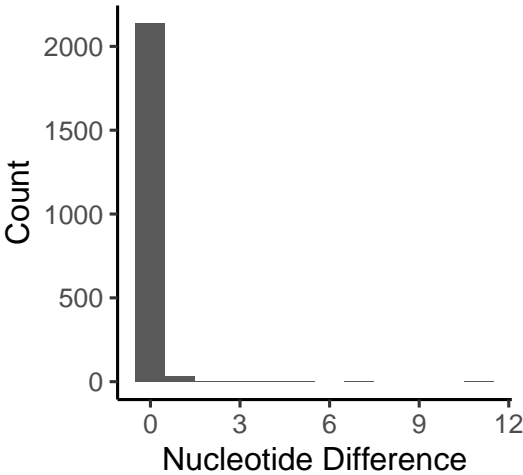
### TRBV9\*ap01

5272 sequences assigned  
5220 (99%) exact matches, in which:  
5138 unique CDR3  
14 unique J



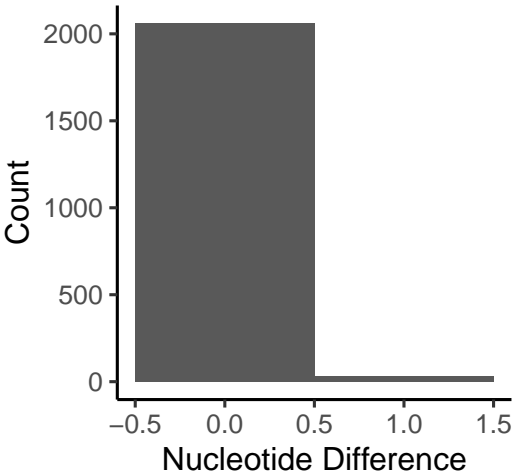
TRBV21-1\*ap01

2179 sequences assigned  
2137 (98.1%) exact matches, in which:  
2096 unique CDR3  
14 unique J



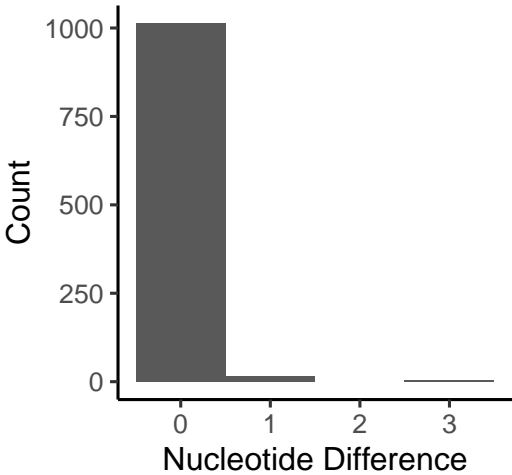
TRBV11-3\*ap01

2090 sequences assigned  
2060 (98.6%) exact matches, in which:  
2036 unique CDR3  
14 unique J



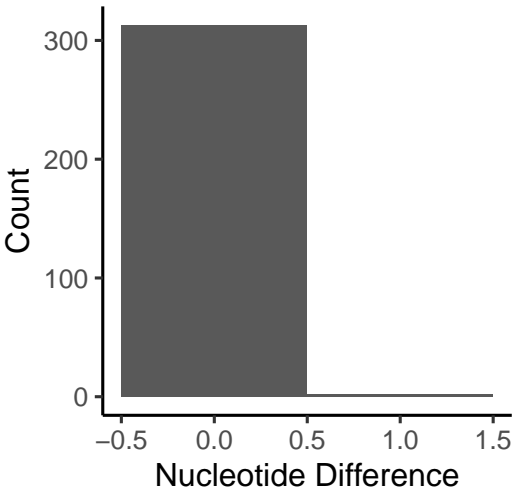
TRBV12-5\*ap01

1031 sequences assigned  
1013 (98.3%) exact matches, in which:  
993 unique CDR3  
14 unique J



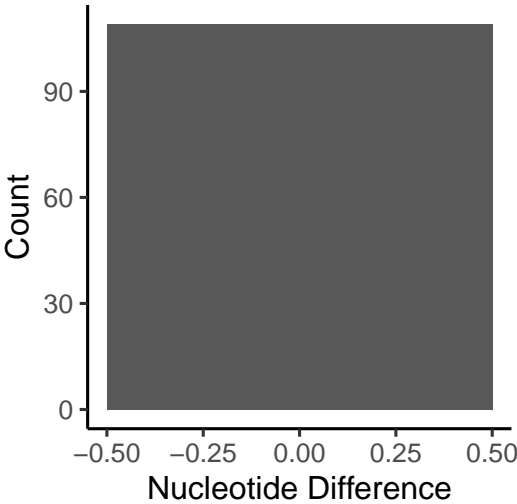
TRBV11-1\*ap01

315 sequences assigned  
313 (99.4%) exact matches, in which:  
311 unique CDR3  
14 unique J



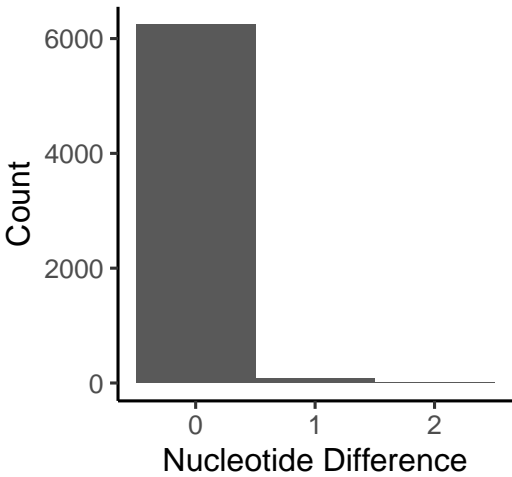
TRBV12-1\*ap01

109 sequences assigned  
109 (100%) exact matches, in which:  
109 unique CDR3  
14 unique J



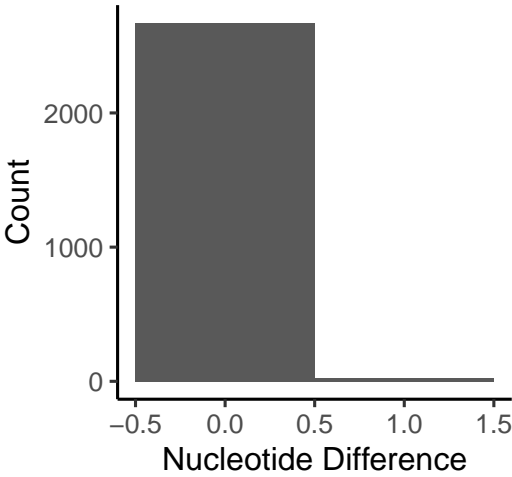
TRBV12-34\*ap01

6317 sequences assigned  
6241 (98.8%) exact matches, in which:  
6171 unique CDR3  
14 unique J



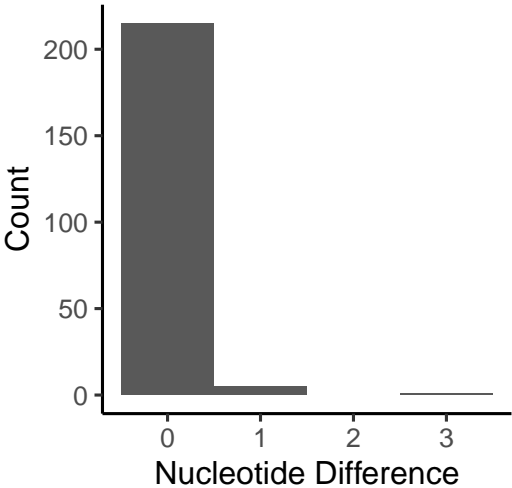
TRBV11-2\*ap01

2693 sequences assigned  
2670 (99.1%) exact matches, in which:  
2643 unique CDR3  
14 unique J



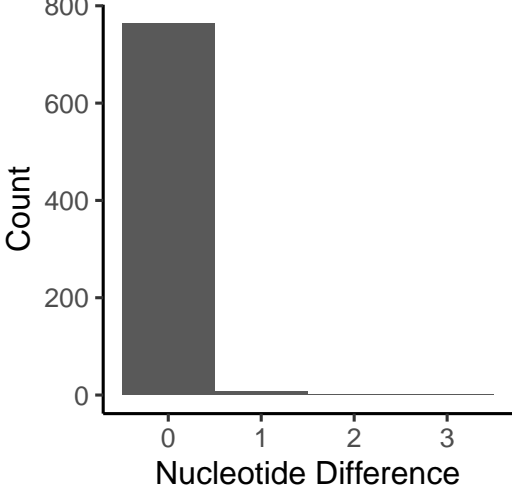
TRBV12-2\*ap01

221 sequences assigned  
215 (97.3%) exact matches, in which:  
212 unique CDR3  
14 unique J



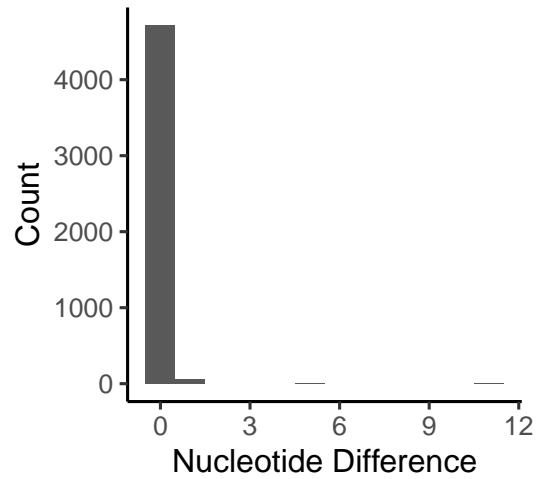
TRBV23-1\*ap01

774 sequences assigned  
764 (98.7%) exact matches, in which:  
748 unique CDR3  
14 unique J



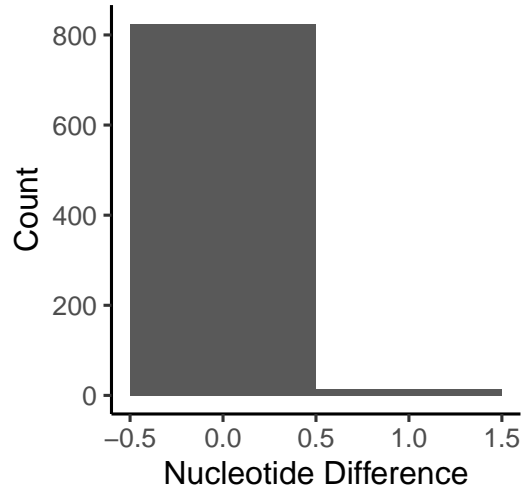
### TRBV3-12\*ap01

4776 sequences assigned  
4714 (98.7%) exact matches, in which:  
4639 unique CDR3  
14 unique J



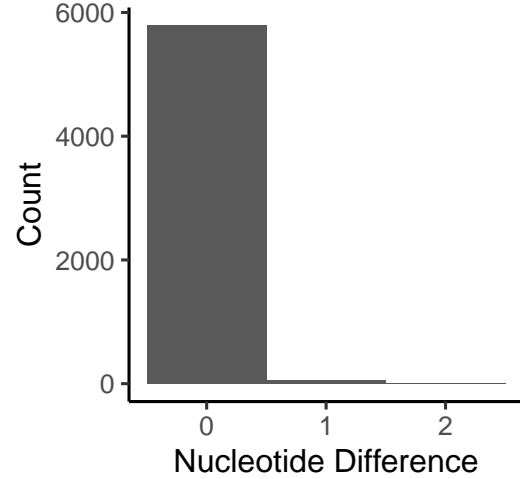
### TRBV4-2\*ap01

839 sequences assigned  
825 (98.3%) exact matches, in which:  
818 unique CDR3  
14 unique J



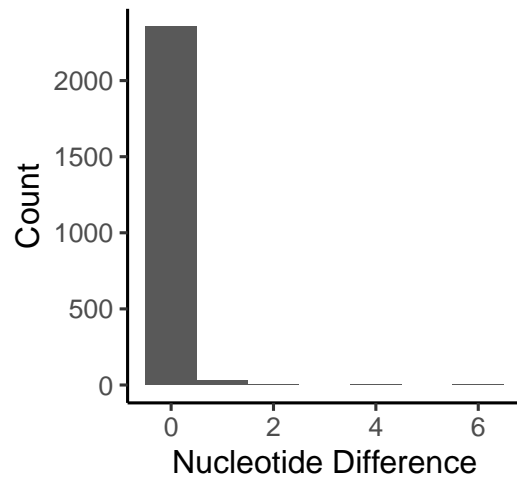
### TRBV5-1\*ap01

5843 sequences assigned  
5791 (99.1%) exact matches, in which:  
5708 unique CDR3  
14 unique J



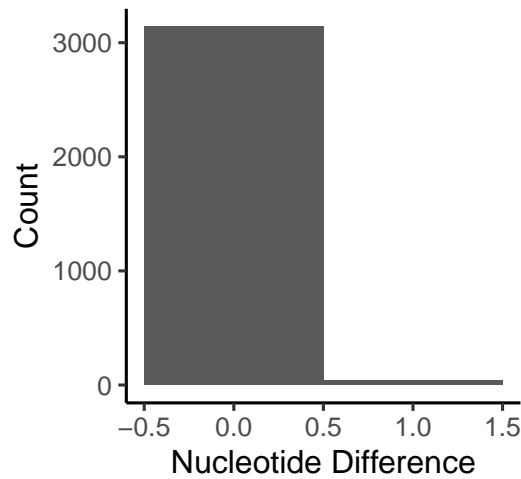
### TRBV24-1\*ap01

2386 sequences assigned  
2354 (98.7%) exact matches, in which:  
2331 unique CDR3  
14 unique J



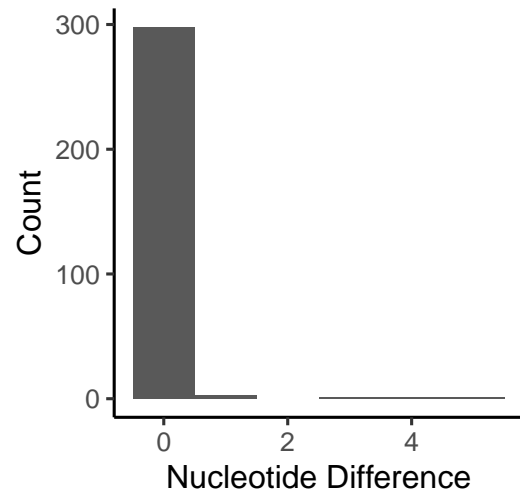
### TRBV4-3\*ap01

3182 sequences assigned  
3140 (98.7%) exact matches, in which:  
3112 unique CDR3  
14 unique J



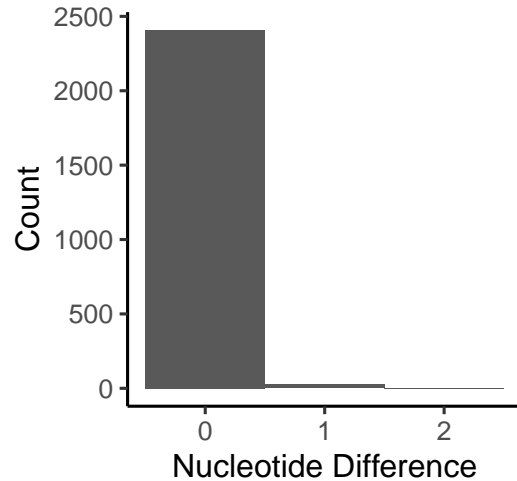
### TRBV5-3\*ap01

304 sequences assigned  
298 (98%) exact matches, in which:  
293 unique CDR3  
14 unique J



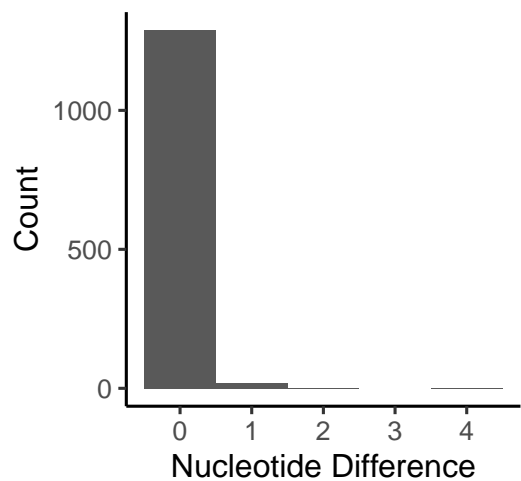
### TRBV4-1\*ap01

2435 sequences assigned  
2408 (98.9%) exact matches, in which:  
2386 unique CDR3  
14 unique J



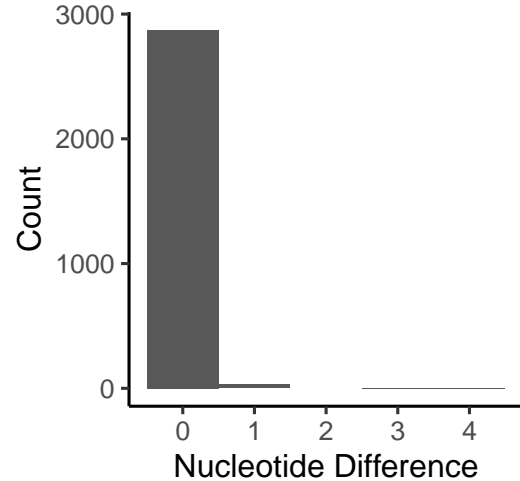
### TRBV25-1\*ap01

1310 sequences assigned  
1289 (98.4%) exact matches, in which:  
1274 unique CDR3  
14 unique J



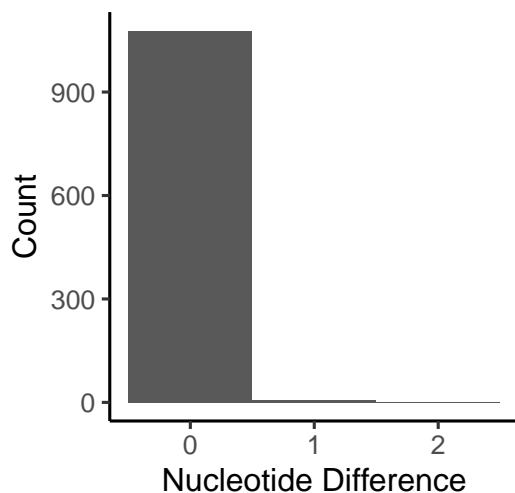
### TRBV5-4\*ap01

2906 sequences assigned  
2872 (98.8%) exact matches, in which:  
2831 unique CDR3  
14 unique J



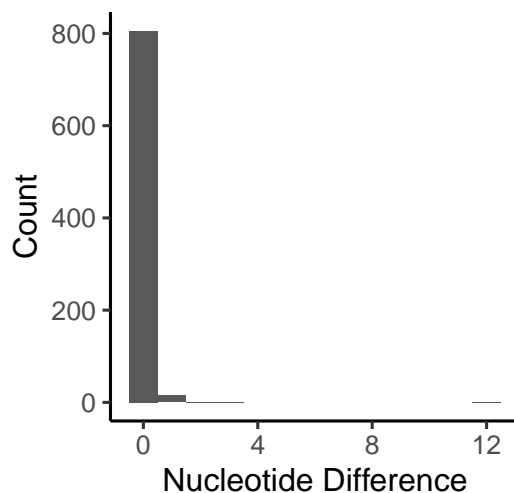
### TRBV5-5\*ap01

1086 sequences assigned  
1078 (99.3%) exact matches, in which:  
1062 unique CDR3  
14 unique J



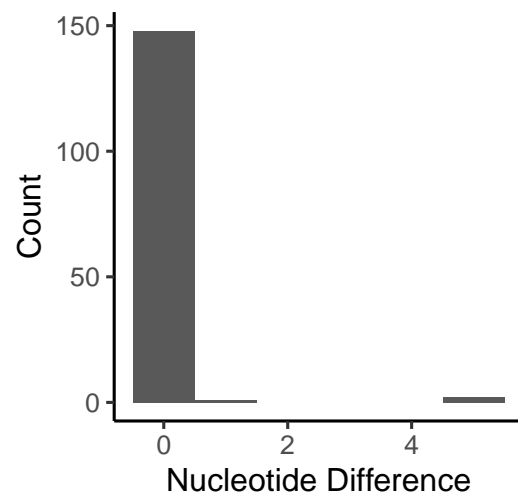
### TRBV5-8\*ap01

824 sequences assigned  
806 (97.8%) exact matches, in which:  
797 unique CDR3  
14 unique J



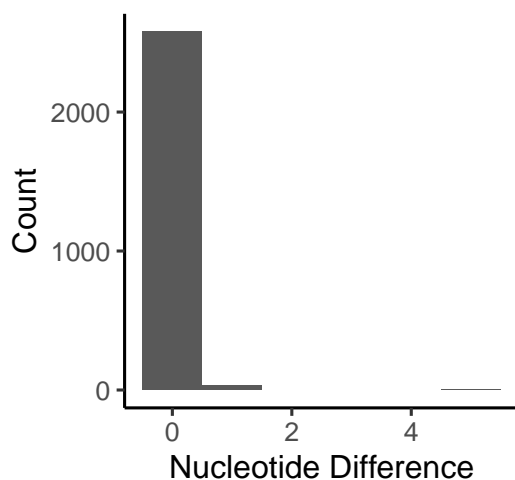
### TRBV6-7\*ap01

151 sequences assigned  
148 (98%) exact matches, in which:  
146 unique CDR3  
14 unique J



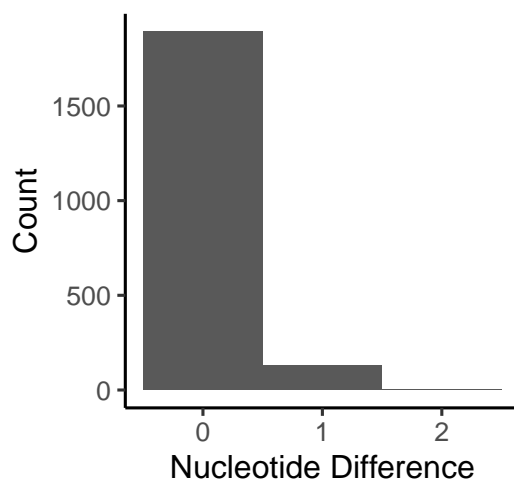
### TRBV5-6\*ap01

2612 sequences assigned  
2578 (98.7%) exact matches, in which:  
2540 unique CDR3  
14 unique J



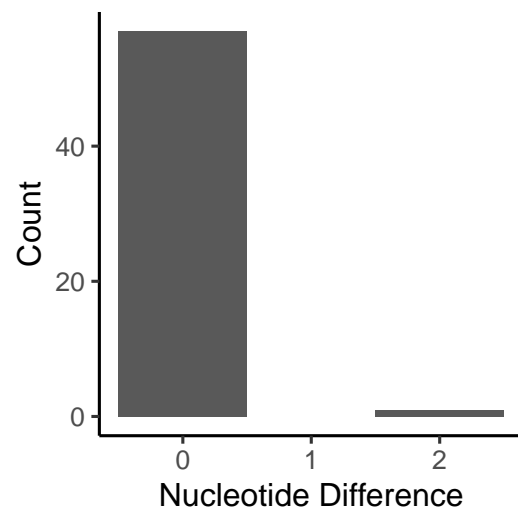
### TRBV6-1\*ap01

2026 sequences assigned  
1892 (93.4%) exact matches, in which:  
1859 unique CDR3  
14 unique J



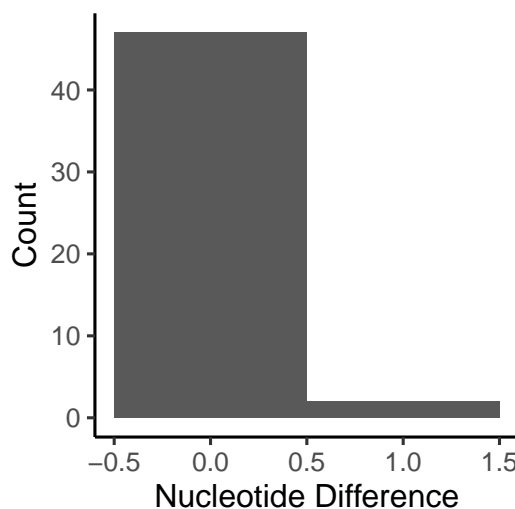
### TRBV6-8\*ap01

58 sequences assigned  
57 (98.3%) exact matches, in which:  
57 unique CDR3  
12 unique J



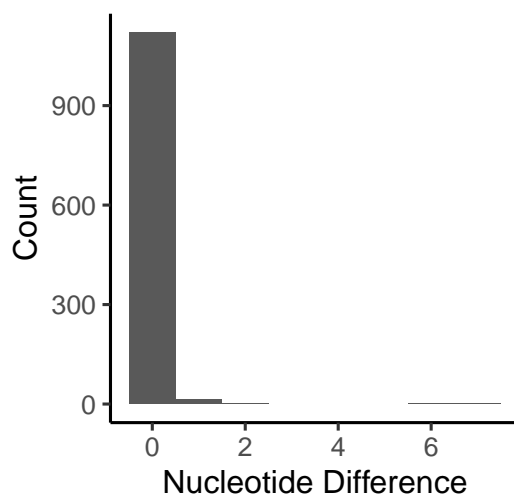
### TRBV5-7\*ap01

49 sequences assigned  
47 (95.9%) exact matches, in which:  
46 unique CDR3  
12 unique J



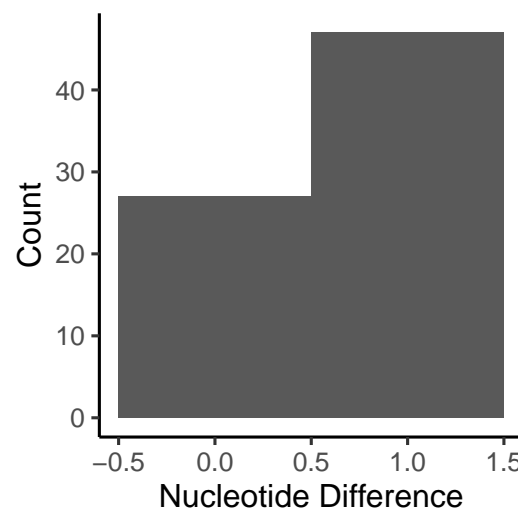
### TRBV6-4\*ap01

1140 sequences assigned  
1121 (98.3%) exact matches, in which:  
1105 unique CDR3  
14 unique J



### TRBV6-9\*ap01

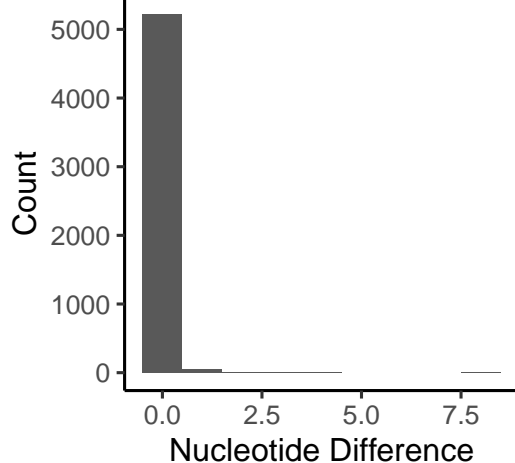
74 sequences assigned  
27 (36.5%) exact matches, in which:  
26 unique CDR3  
9 unique J





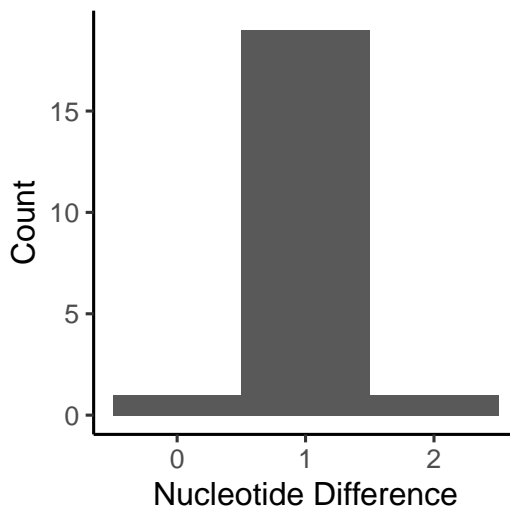
### TRBV6-23\*ap01

5280 sequences assigned  
5218 (98.8%) exact matches, in which:  
5157 unique CDR3  
14 unique J



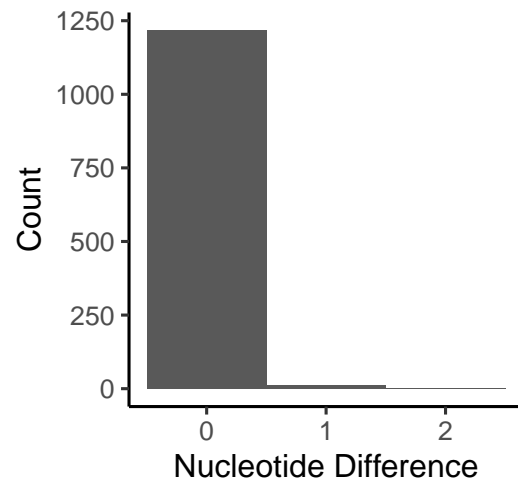
### TRBV7-1\*ap01\_T296C

21 sequences assigned  
1 (4.8%) exact matches, in which:  
1 unique CDR3  
1 unique J



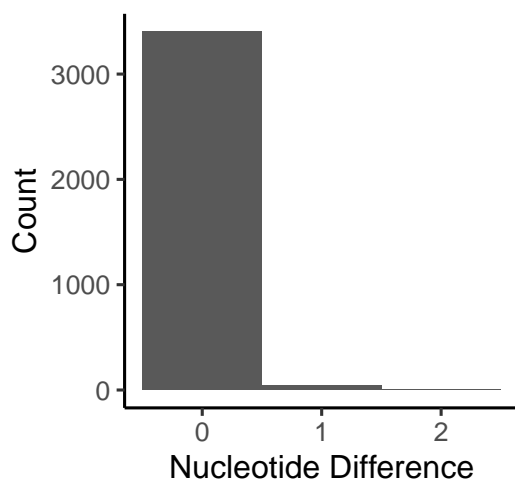
### TRBV7-3\*ap01

1231 sequences assigned  
1217 (98.9%) exact matches, in which:  
1201 unique CDR3  
14 unique J



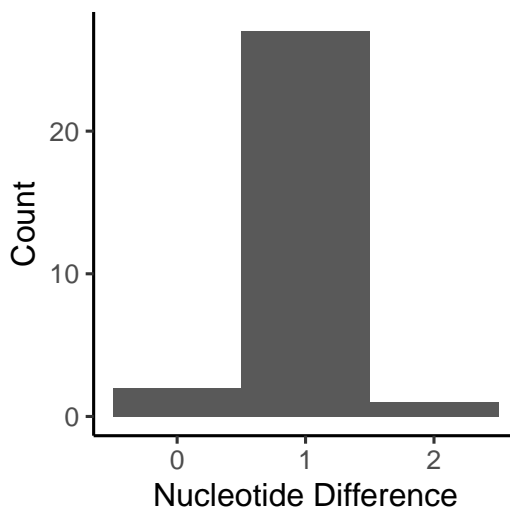
### TRBV6-56\*ap01

3448 sequences assigned  
3402 (98.7%) exact matches, in which:  
3359 unique CDR3  
14 unique J



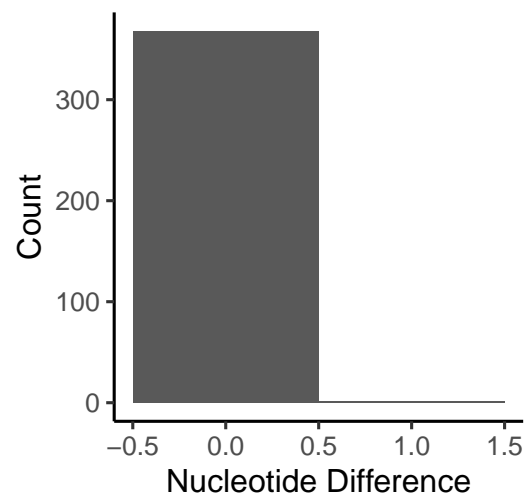
### TRBV7-1\*ap01\_T296C\_C

30 sequences assigned  
2 (6.7%) exact matches, in which:  
2 unique CDR3  
1 unique J



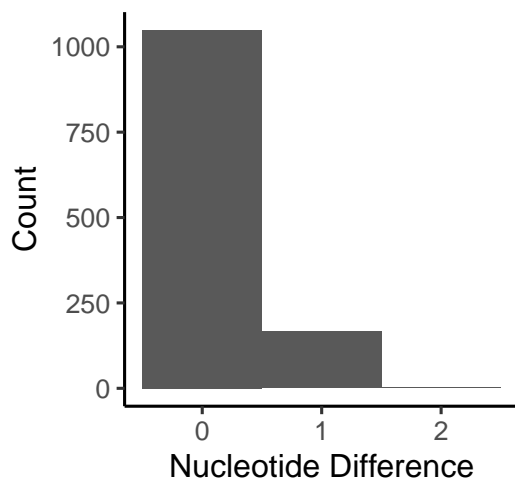
### TRBV7-3\*ap02

369 sequences assigned  
368 (99.7%) exact matches, in which:  
363 unique CDR3  
13 unique J



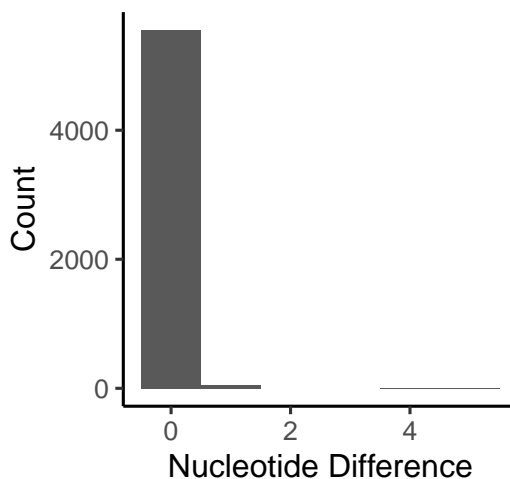
### TRBV6-56\*ap02

1217 sequences assigned  
1049 (86.2%) exact matches, in which:  
1037 unique CDR3  
14 unique J



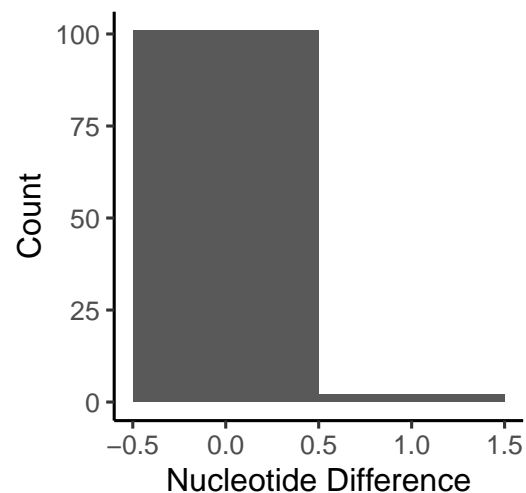
### TRBV7-2\*ap01

5603 sequences assigned  
5553 (99.1%) exact matches, in which:  
5476 unique CDR3  
14 unique J



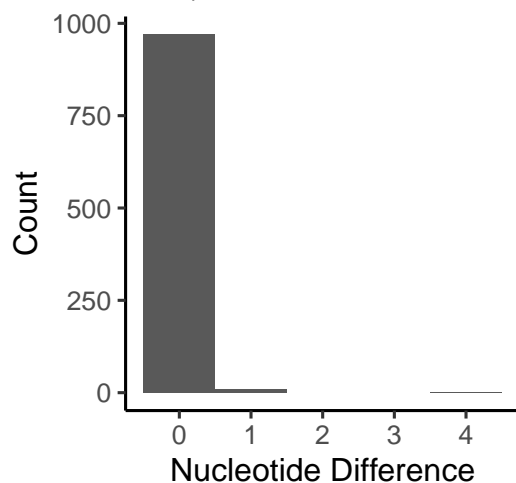
### TRBV7-4\*ap01

103 sequences assigned  
101 (98.1%) exact matches, in which:  
99 unique CDR3  
14 unique J



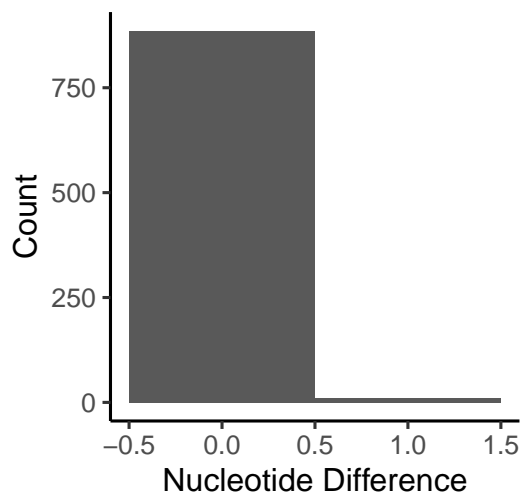
### TRBV7-6\*ap01

980 sequences assigned  
970 (99%) exact matches, in which:  
956 unique CDR3  
14 unique J



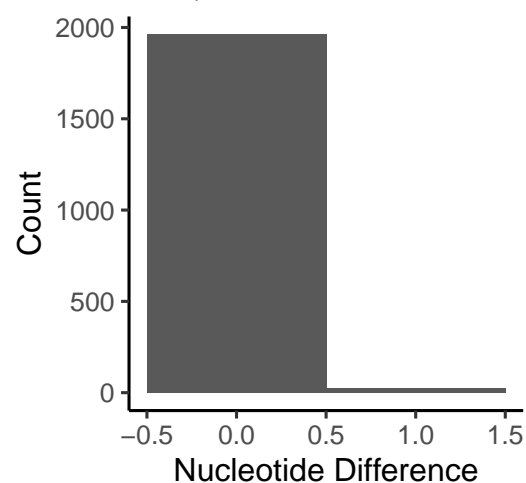
### TRBV7-8\*ap01

897 sequences assigned  
886 (98.8%) exact matches, in which:  
875 unique CDR3  
14 unique J



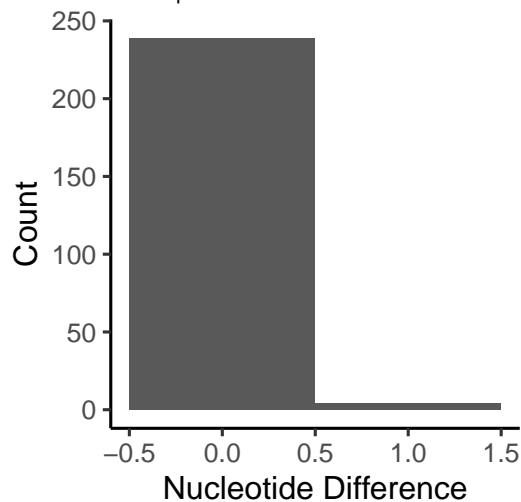
### TRBV29-1\*ap01

1985 sequences assigned  
1962 (98.8%) exact matches, in which:  
1940 unique CDR3  
14 unique J



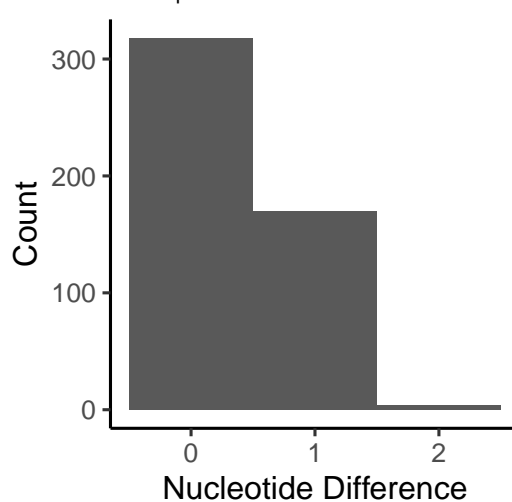
### TRBV7-7\*ap01

243 sequences assigned  
239 (98.4%) exact matches, in which:  
238 unique CDR3  
13 unique J



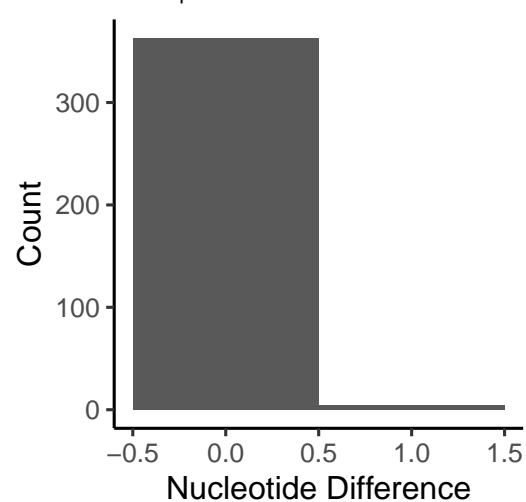
### TRBV7-8\*ap03

492 sequences assigned  
318 (64.6%) exact matches, in which:  
312 unique CDR3  
14 unique J



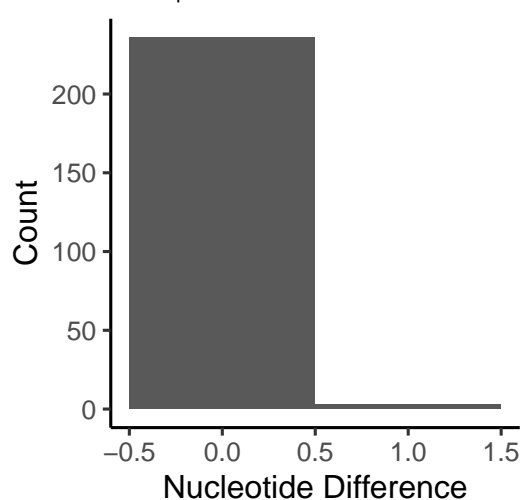
### TRBV29-1\*ap02

367 sequences assigned  
363 (98.9%) exact matches, in which:  
357 unique CDR3  
14 unique J



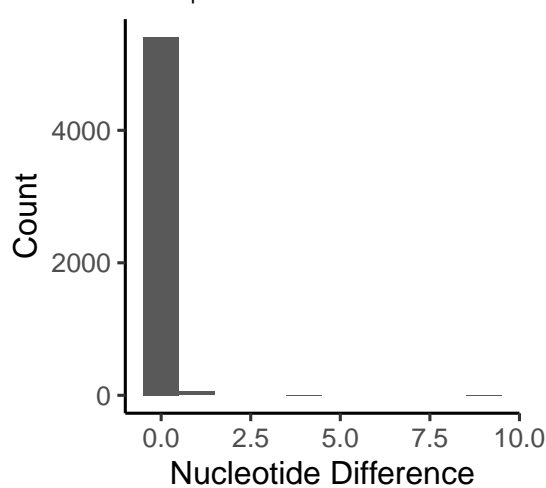
### TRBV7-7\*ap01\_C315T

239 sequences assigned  
236 (98.7%) exact matches, in which:  
231 unique CDR3  
13 unique J

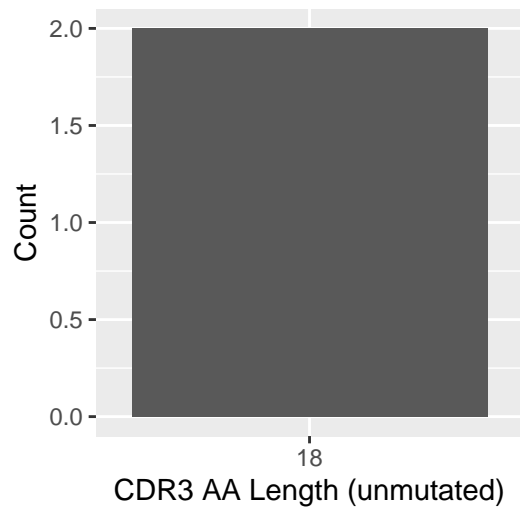


### TRBV7-9\*ap01

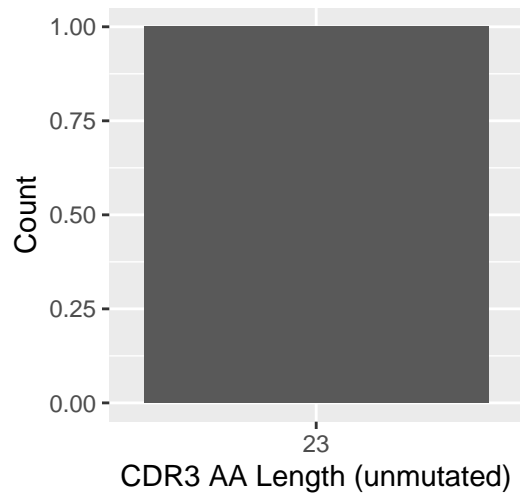
5465 sequences assigned  
5408 (99%) exact matches, in which:  
5329 unique CDR3  
14 unique J



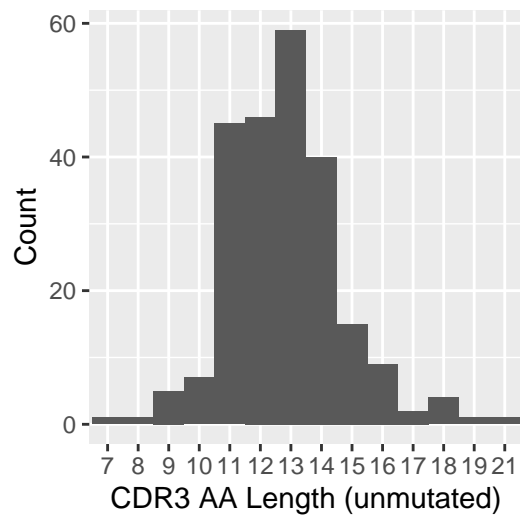
TRBV7-1\*ap01\_T296C\_C314T

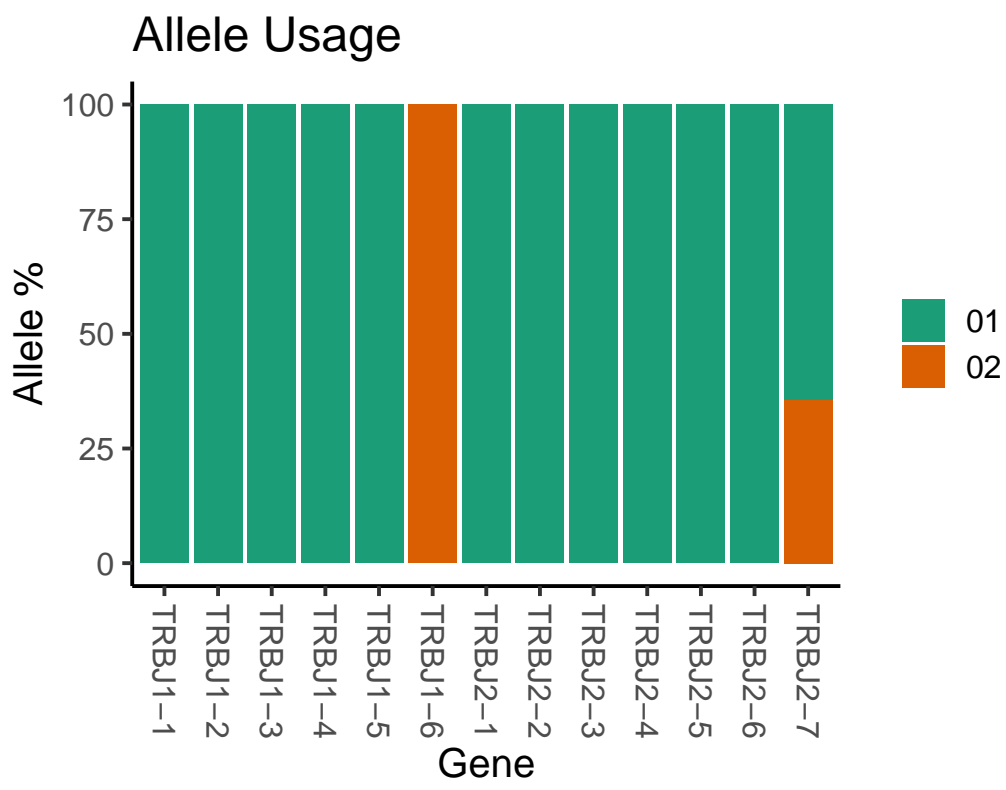


TRBV7-1\*ap01\_T296C

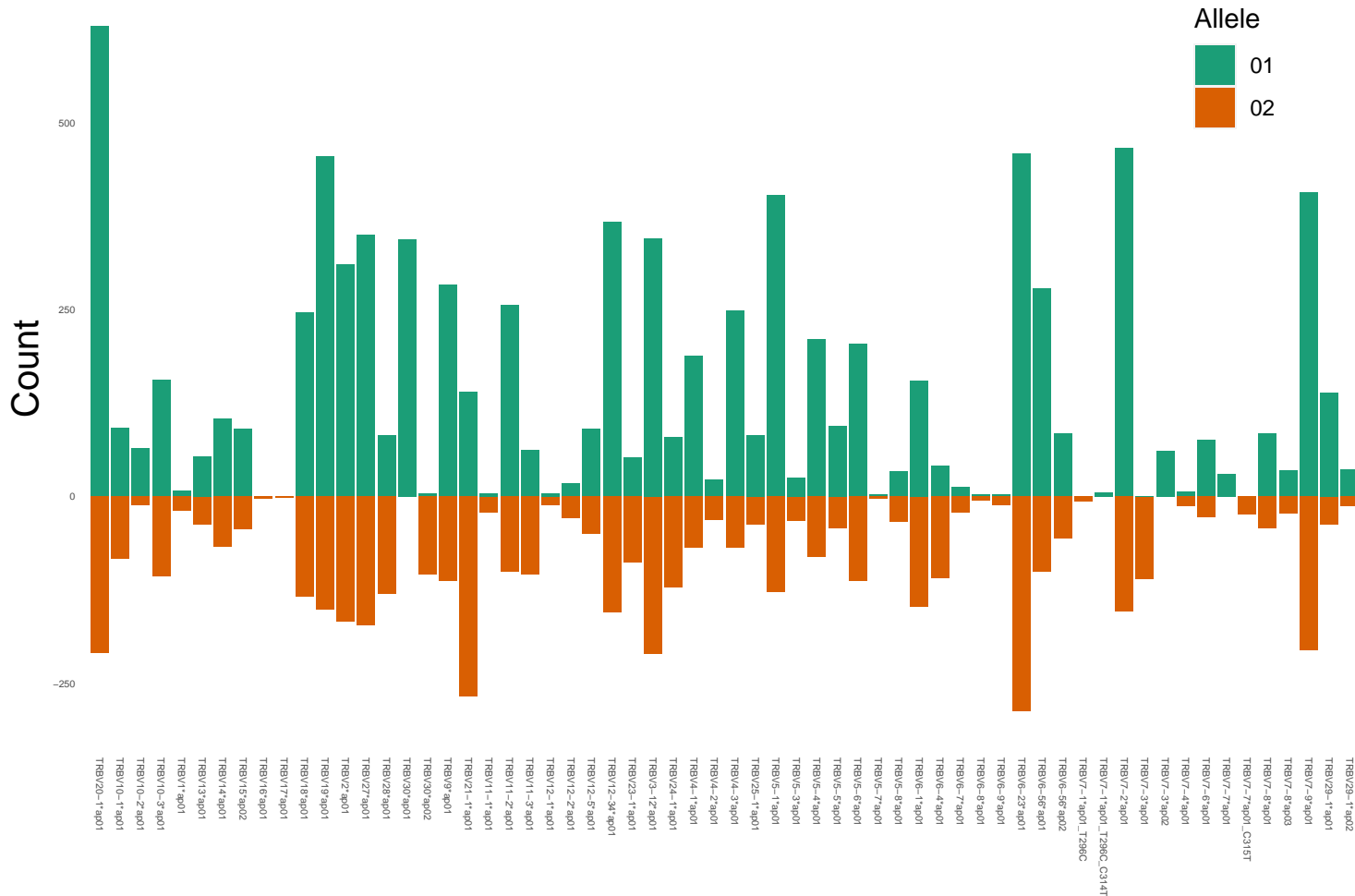


TRBV7-7\*ap01\_C315T





Sequence Count by TRBJ2-7 allele usage



[illegible]