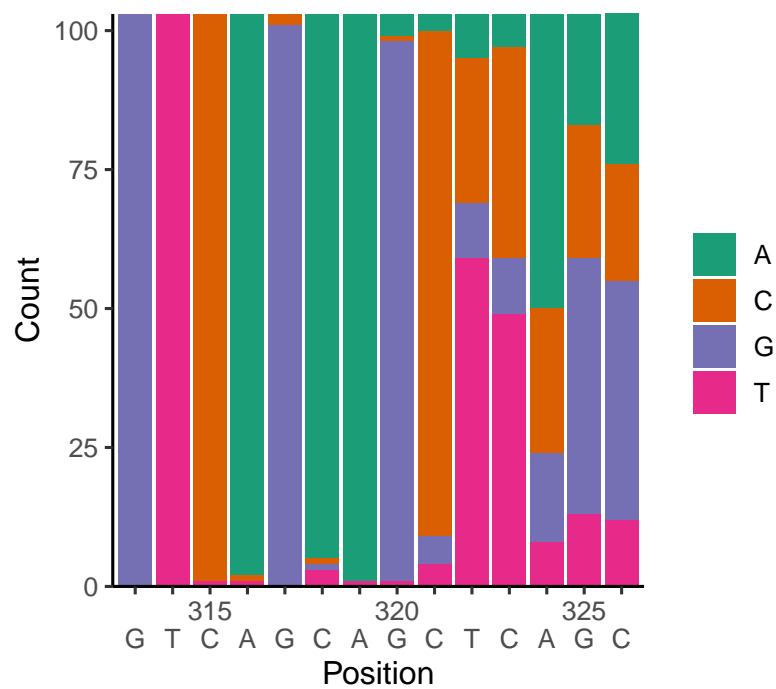
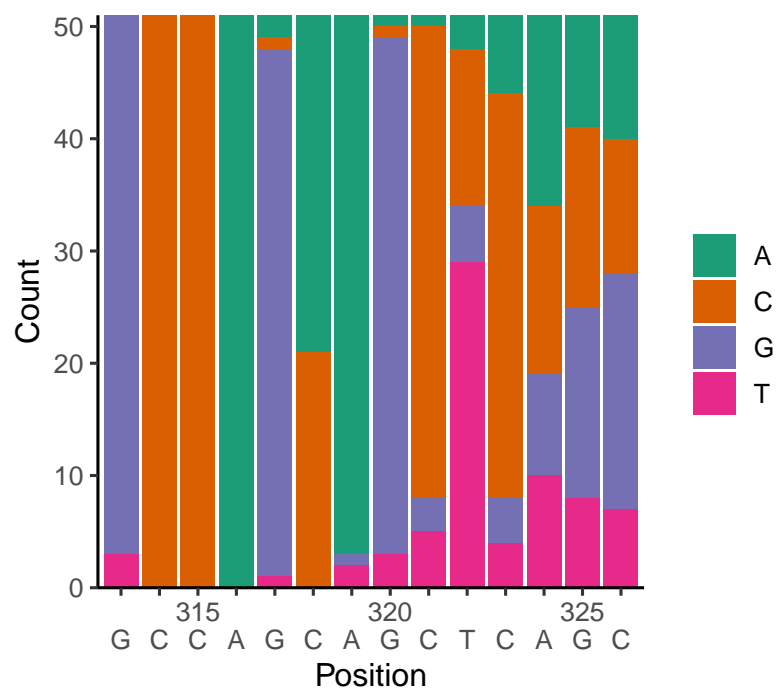


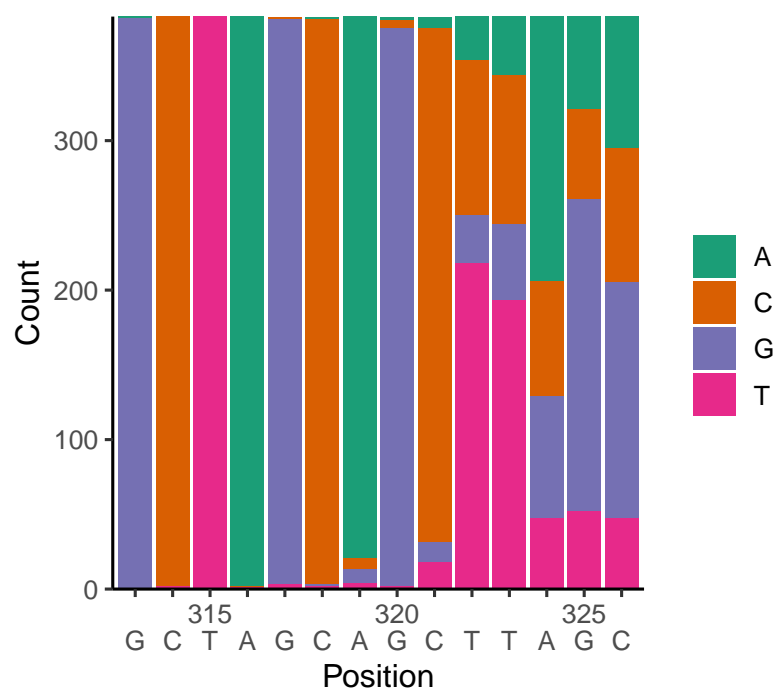
Gene TRBV7-1\*ap01\_T296C\_C314T



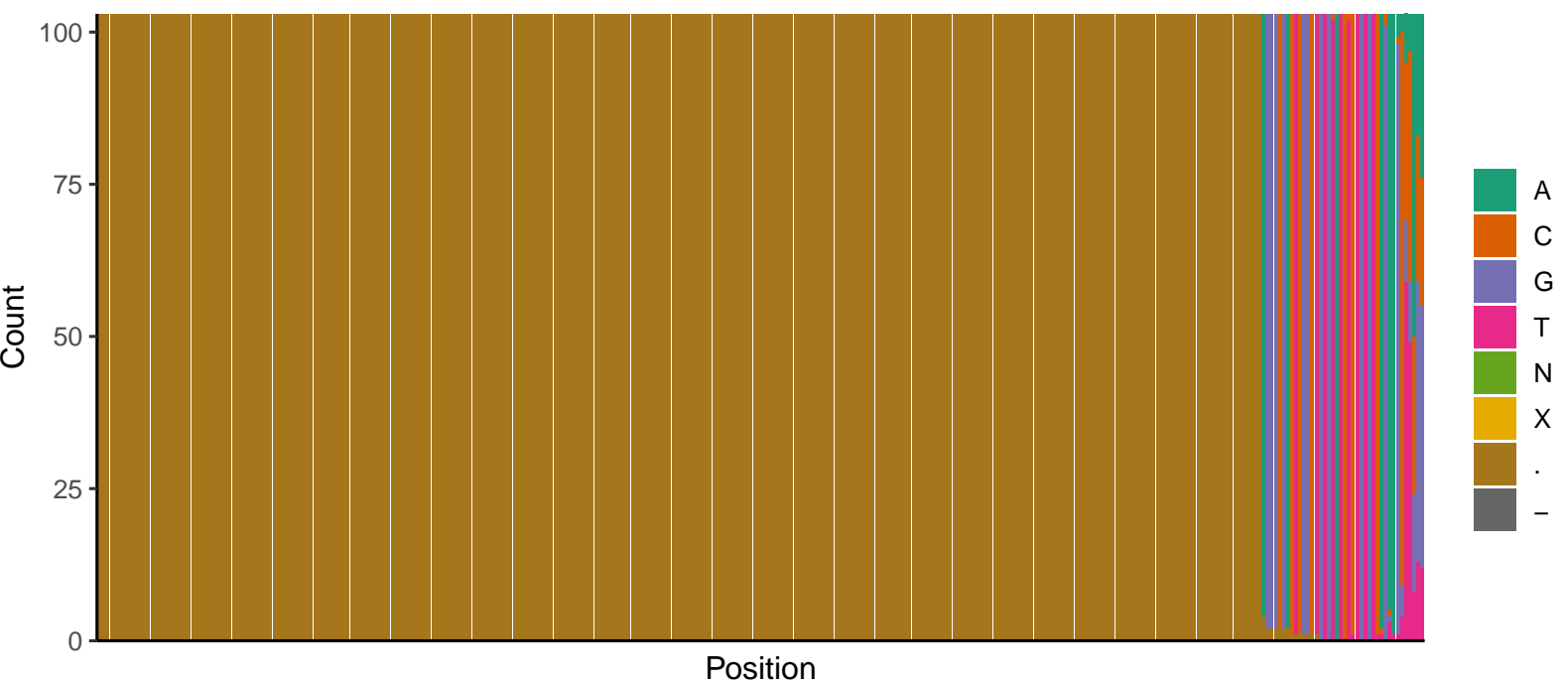
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



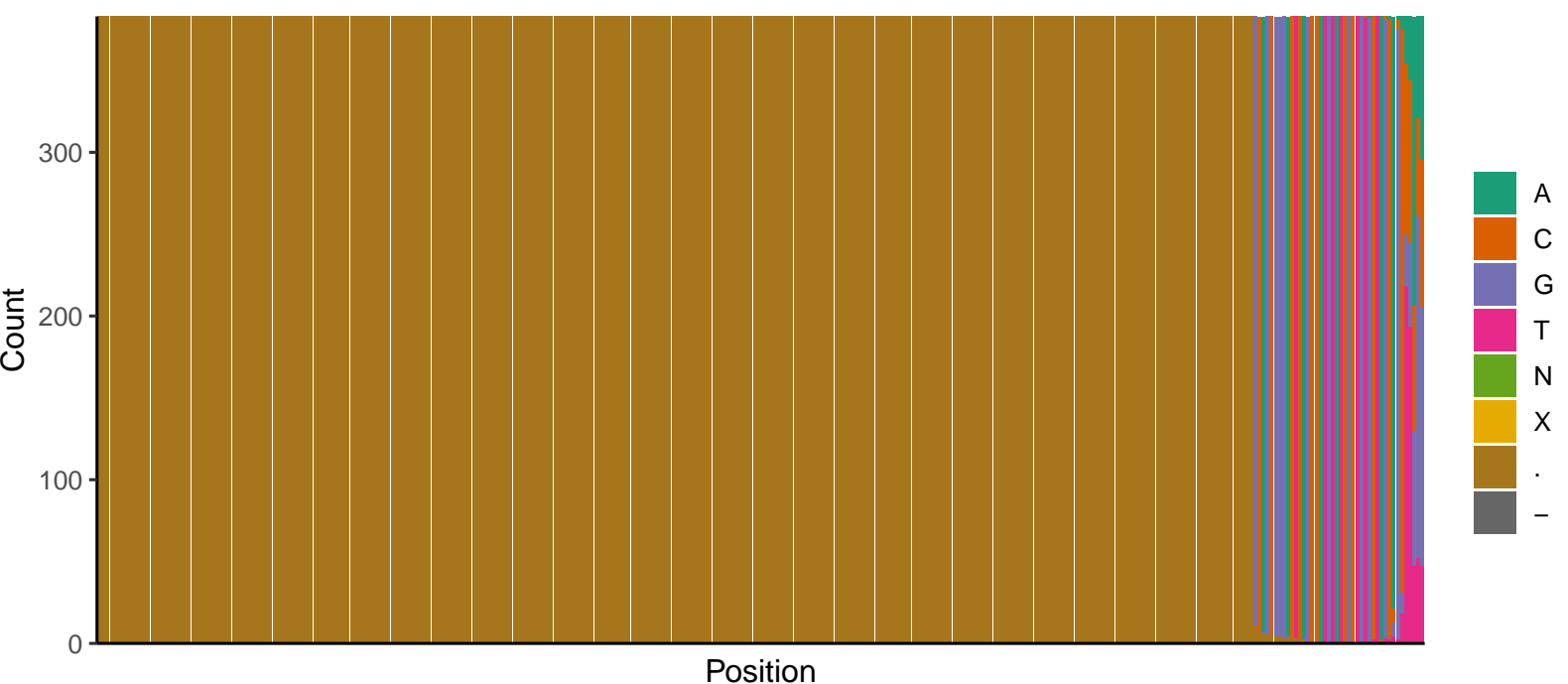
Gene TRBV7-1\*ap01\_T296C\_C314T



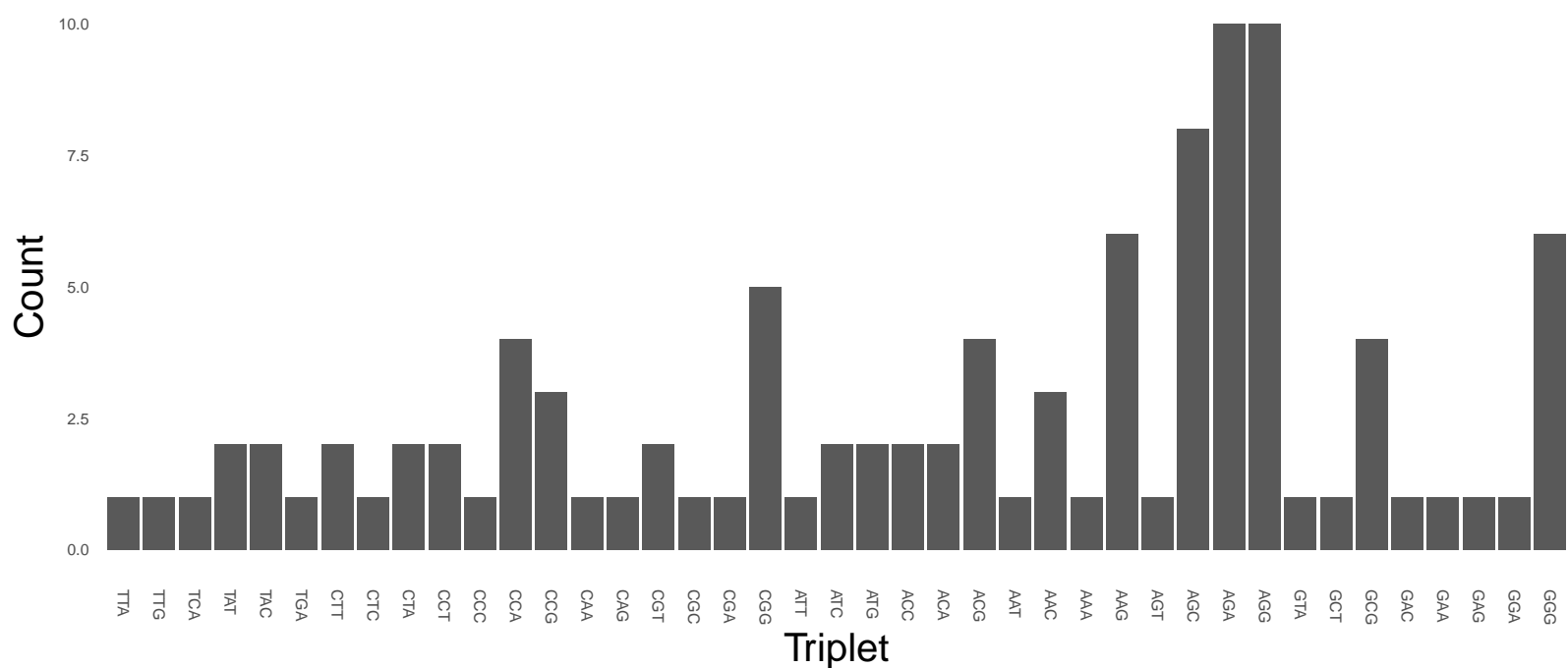
Gene TRBV7-1\*ap01\_T296C



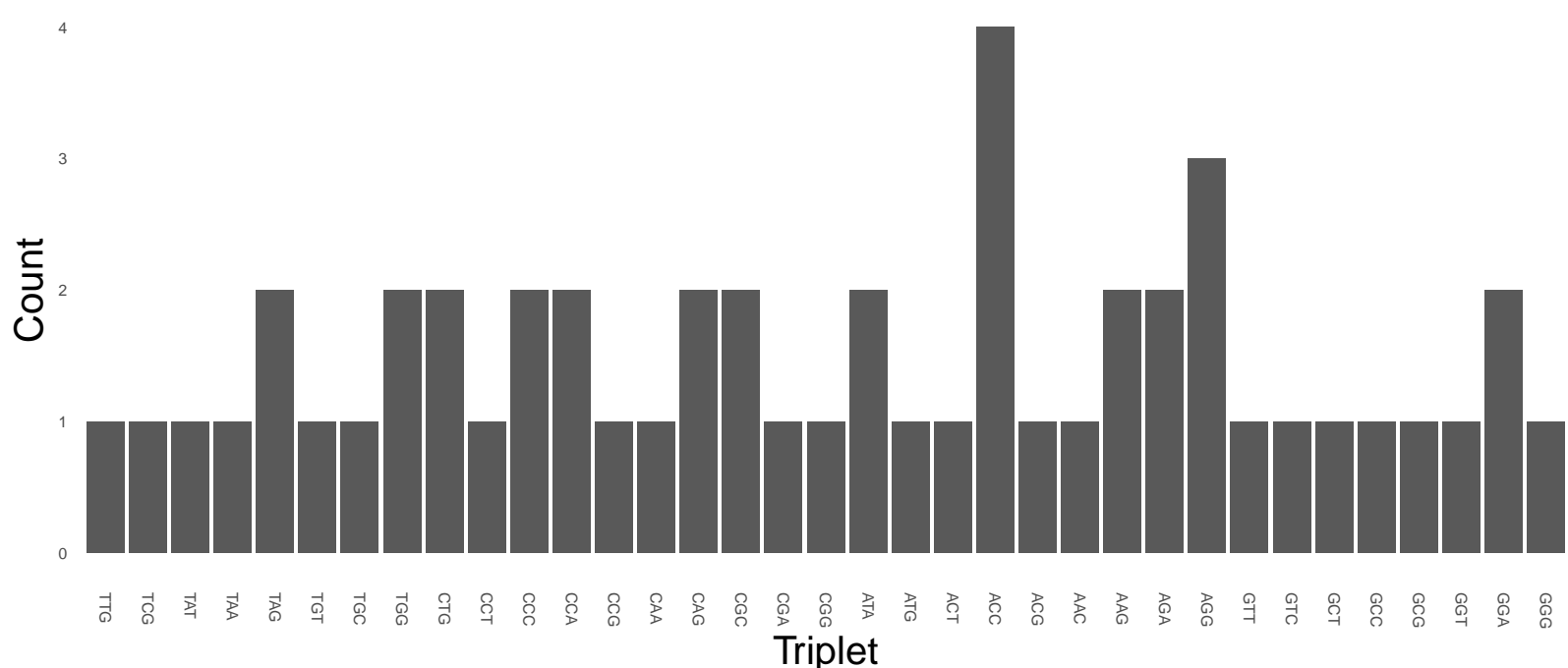
Gene TRBV7-7\*ap01\_C315T



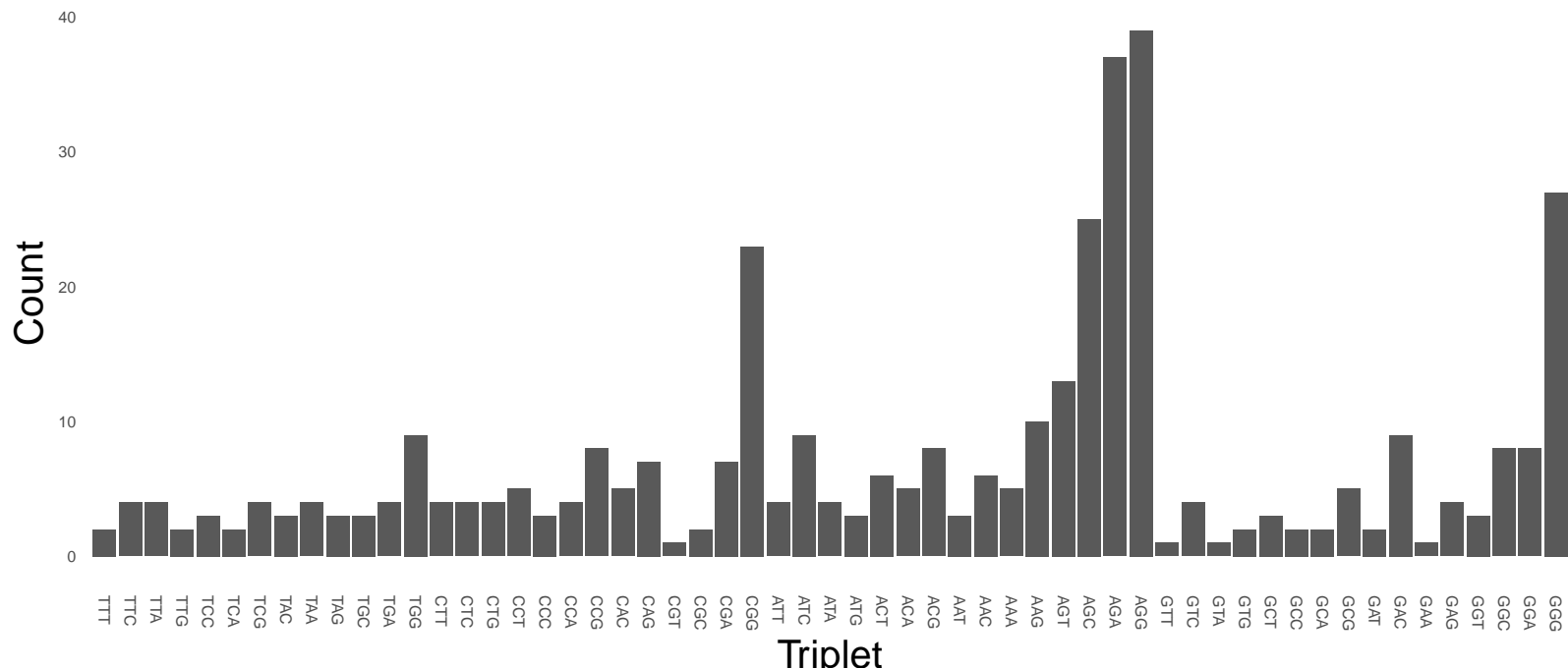
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

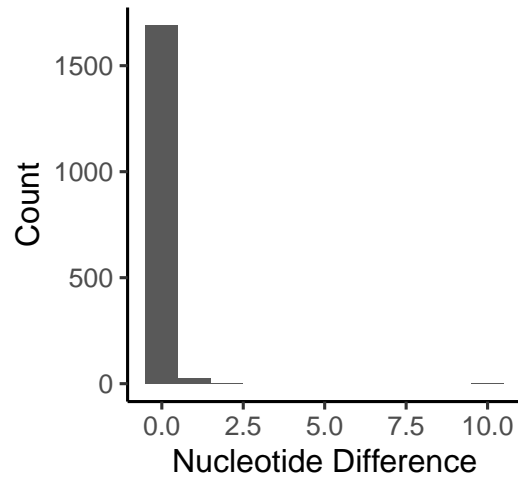


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



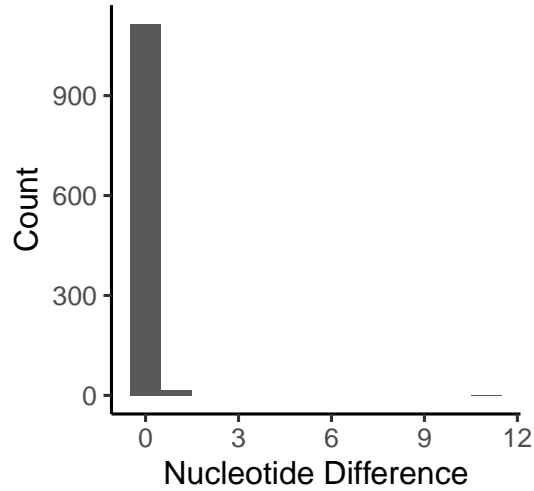
### TRBV10-1\*ap01

1717 sequences assigned  
1690 (98.4%) exact matches, in which:  
1662 unique CDR3  
14 unique J



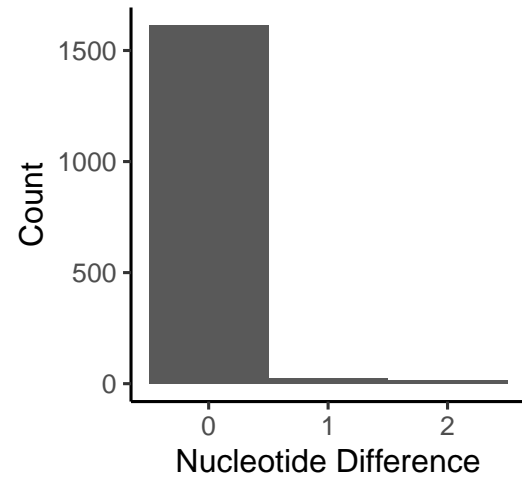
### TRBV10-2\*ap01

1134 sequences assigned  
1116 (98.4%) exact matches, in which:  
1093 unique CDR3  
14 unique J



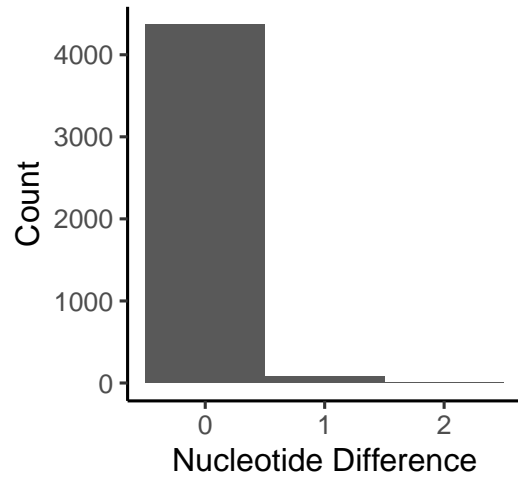
### TRBV13\*ap01

1655 sequences assigned  
1613 (97.5%) exact matches, in which:  
1570 unique CDR3  
14 unique J



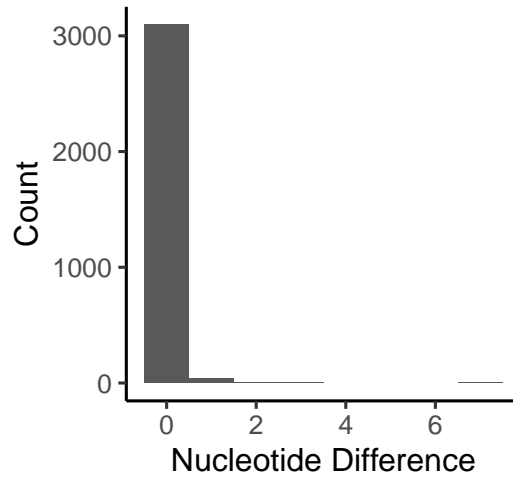
### TRBV20-1\*ap01

4443 sequences assigned  
4366 (98.3%) exact matches, in which:  
4278 unique CDR3  
14 unique J



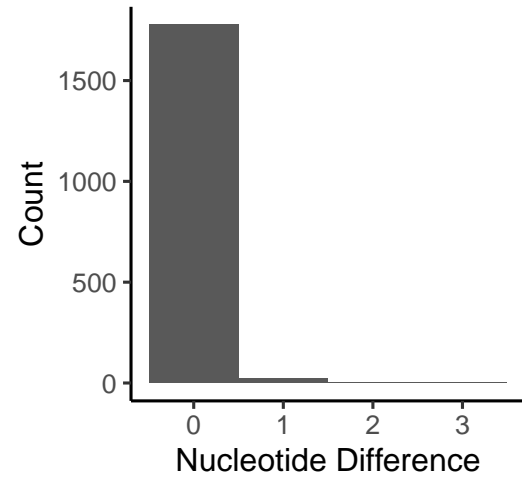
### TRBV10-3\*ap01

3139 sequences assigned  
3096 (98.6%) exact matches, in which:  
3040 unique CDR3  
14 unique J



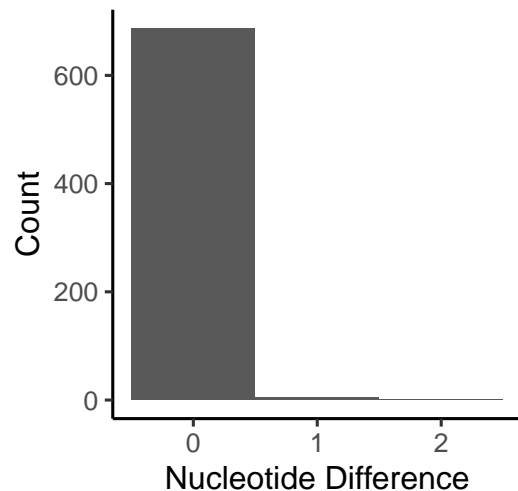
### TRBV14\*ap01

1803 sequences assigned  
1777 (98.6%) exact matches, in which:  
1741 unique CDR3  
14 unique J



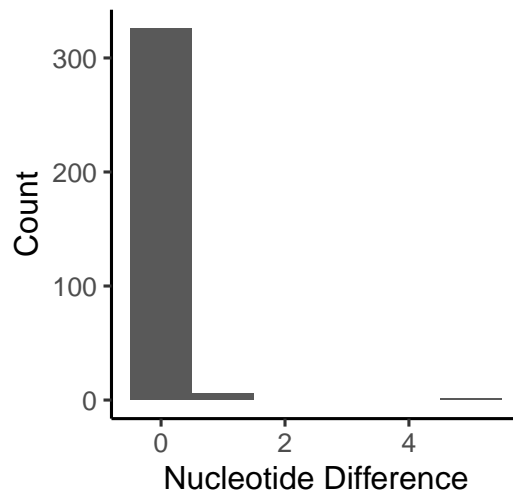
### TRBV20-1\*ap02

693 sequences assigned  
687 (99.1%) exact matches, in which:  
678 unique CDR3  
14 unique J



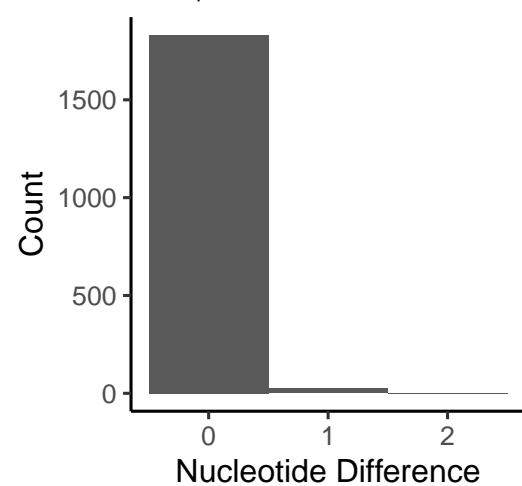
### TRBV1\*ap01

333 sequences assigned  
326 (97.9%) exact matches, in which:  
318 unique CDR3  
14 unique J



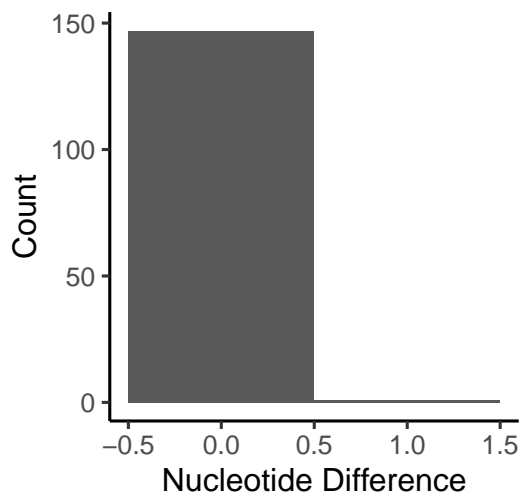
### TRBV15\*ap02

1858 sequences assigned  
1831 (98.5%) exact matches, in which:  
1799 unique CDR3  
14 unique J



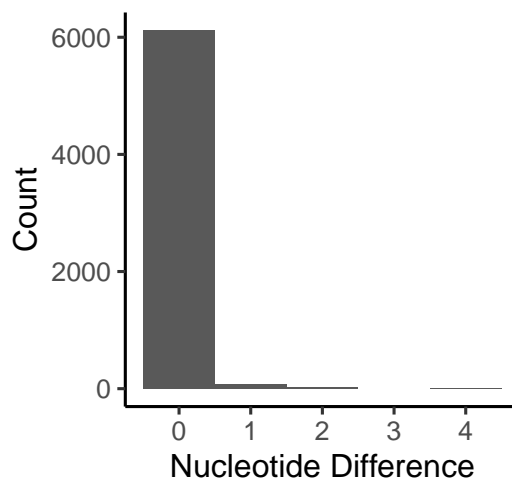
### TRBV16\*ap01

148 sequences assigned  
147 (99.3%) exact matches, in which:  
147 unique CDR3  
14 unique J



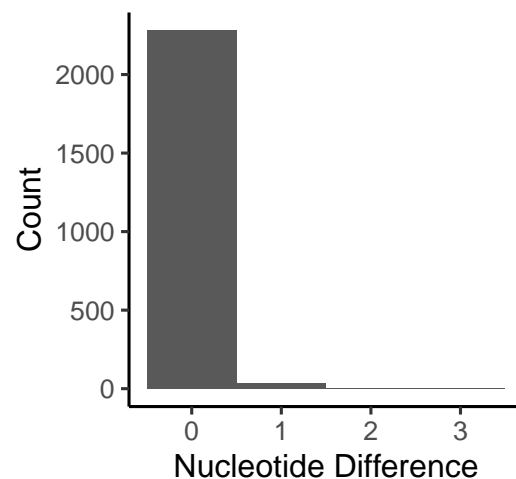
### TRBV2\*ap01

6208 sequences assigned  
6117 (98.5%) exact matches, in which:  
6014 unique CDR3  
14 unique J



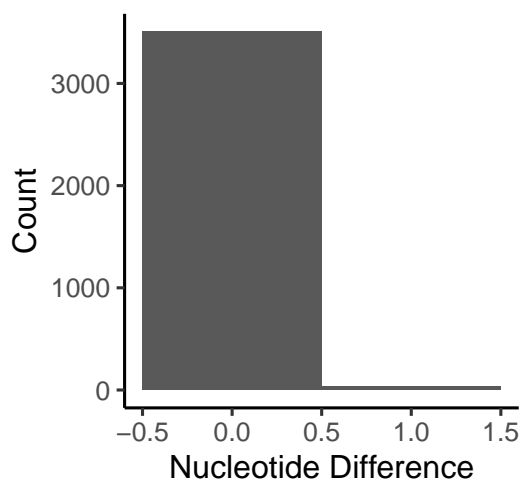
### TRBV30\*ap02

2324 sequences assigned  
2281 (98.1%) exact matches, in which:  
2269 unique CDR3  
14 unique J



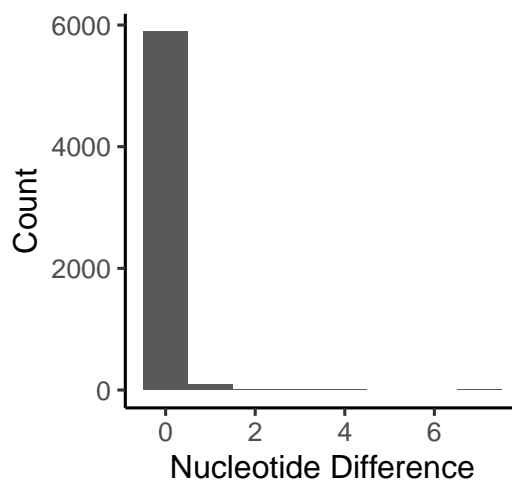
### TRBV18\*ap01

3538 sequences assigned  
3506 (99.1%) exact matches, in which:  
3454 unique CDR3  
14 unique J



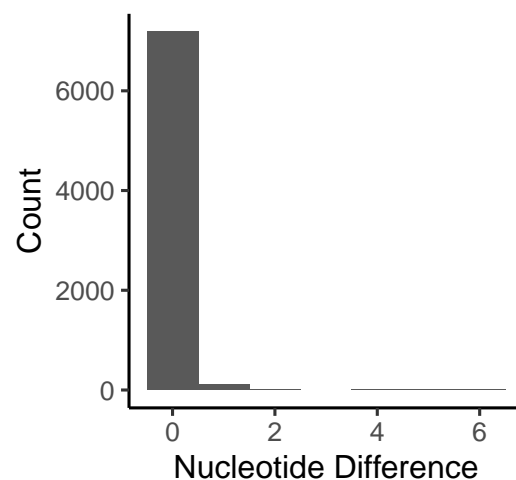
### TRBV27\*ap01

5989 sequences assigned  
5890 (98.3%) exact matches, in which:  
5787 unique CDR3  
14 unique J



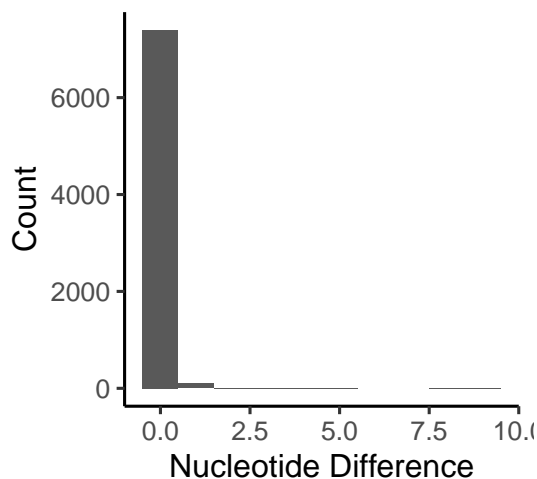
### TRBV9\*ap01

7296 sequences assigned  
7185 (98.5%) exact matches, in which:  
7066 unique CDR3  
14 unique J



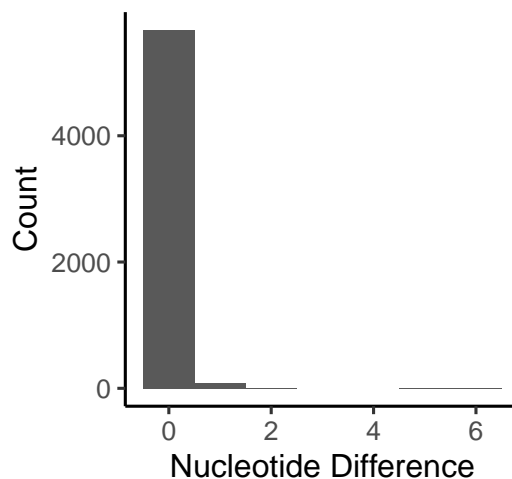
### TRBV19\*ap01

7500 sequences assigned  
7395 (98.6%) exact matches, in which:  
7288 unique CDR3  
14 unique J



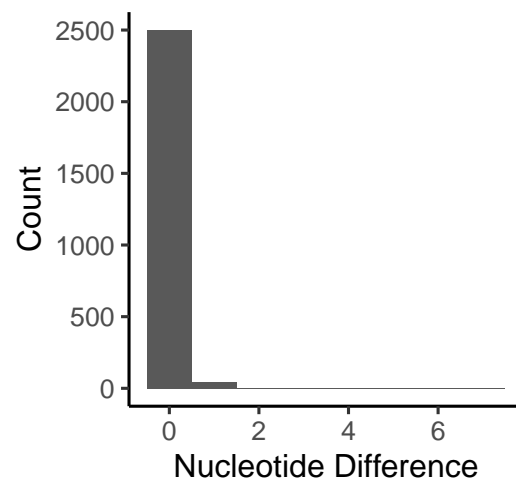
### TRBV28\*ap01

5763 sequences assigned  
5674 (98.5%) exact matches, in which:  
5576 unique CDR3  
14 unique J



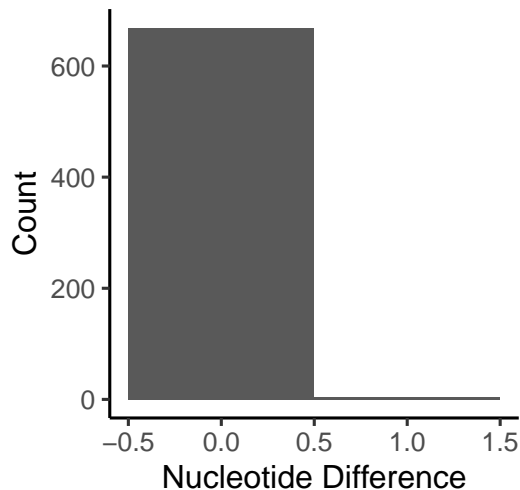
### TRBV21-1\*ap01

2555 sequences assigned  
2500 (97.8%) exact matches, in which:  
2446 unique CDR3  
14 unique J



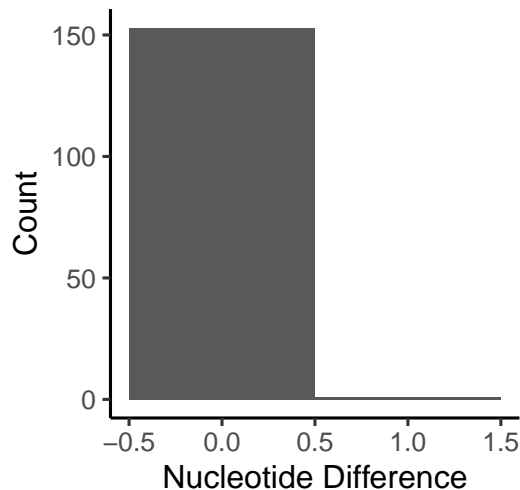
### TRBV11-1\*ap01

674 sequences assigned  
669 (99.3%) exact matches, in which:  
655 unique CDR3  
14 unique J



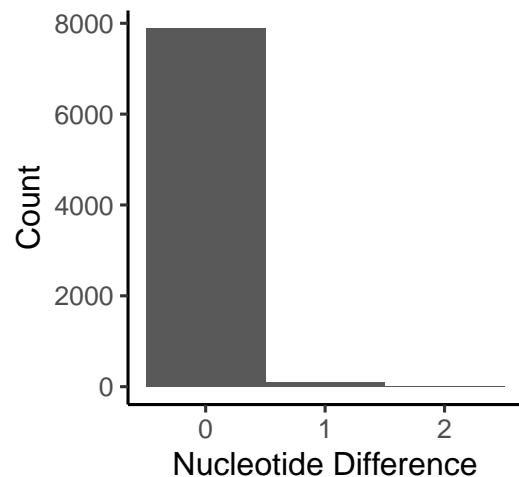
### TRBV12-1\*ap01

154 sequences assigned  
153 (99.4%) exact matches, in which:  
147 unique CDR3  
14 unique J



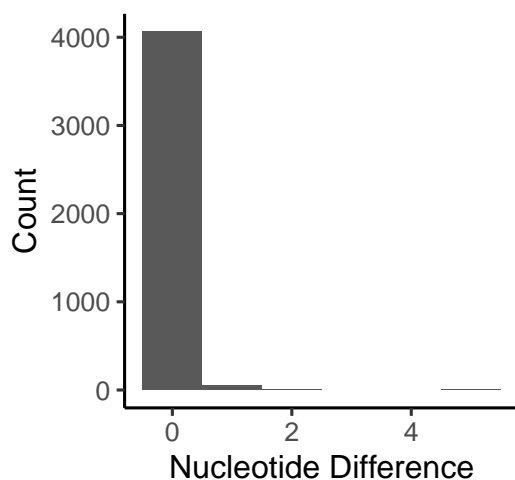
### TRBV12-34\*ap01

7997 sequences assigned  
7887 (98.6%) exact matches, in which:  
7778 unique CDR3  
14 unique J



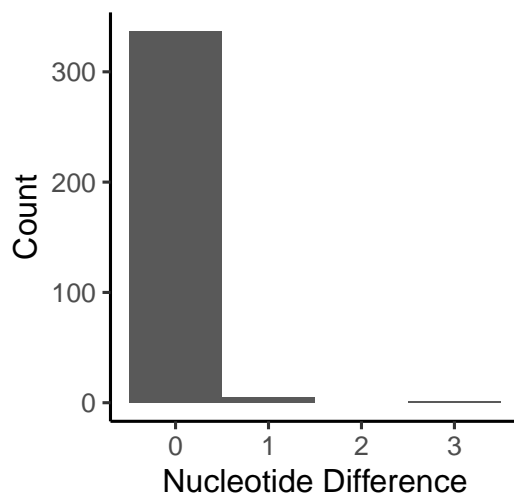
### TRBV11-2\*ap01

4118 sequences assigned  
4063 (98.7%) exact matches, in which:  
3996 unique CDR3  
14 unique J



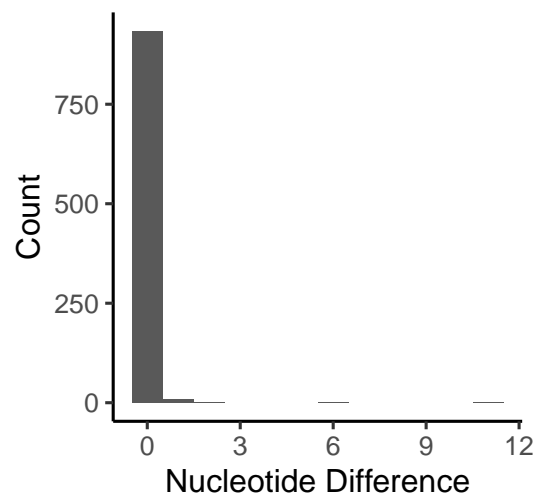
### TRBV12-2\*ap01

343 sequences assigned  
337 (98.3%) exact matches, in which:  
334 unique CDR3  
14 unique J



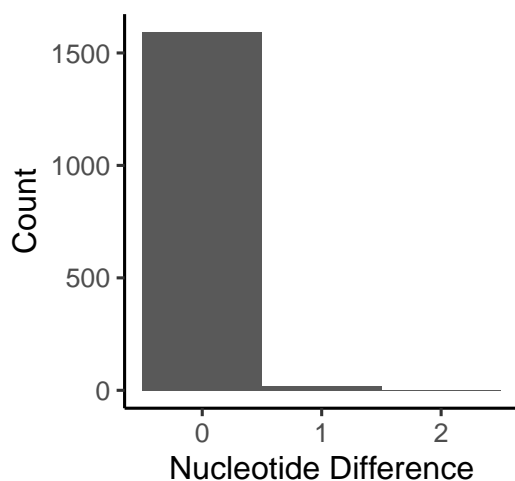
### TRBV23-1\*ap01

947 sequences assigned  
934 (98.6%) exact matches, in which:  
921 unique CDR3  
14 unique J



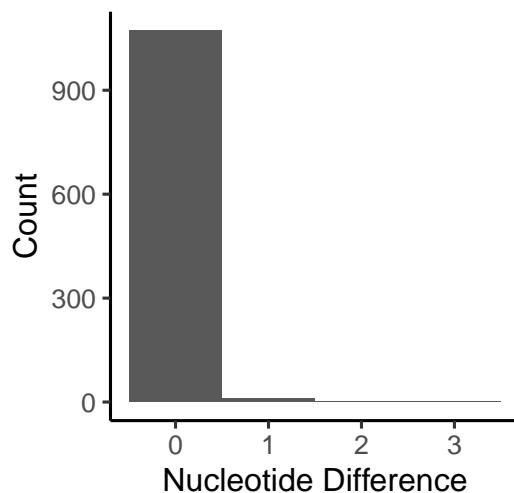
### TRBV11-3\*ap01

1612 sequences assigned  
1593 (98.8%) exact matches, in which:  
1568 unique CDR3  
14 unique J



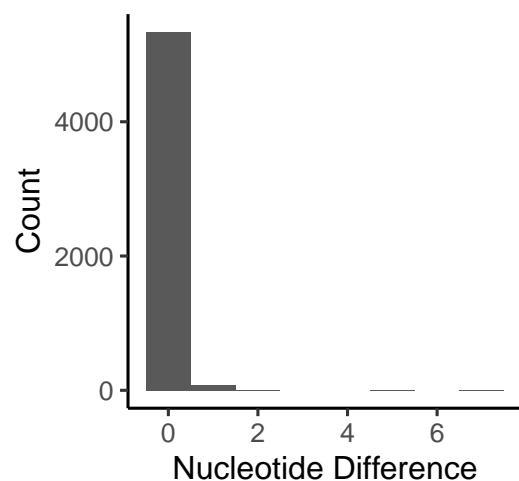
### TRBV12-5\*ap01

1085 sequences assigned  
1073 (98.9%) exact matches, in which:  
1039 unique CDR3  
14 unique J



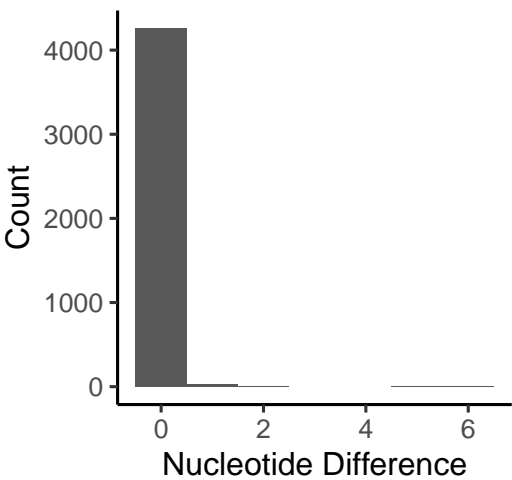
### TRBV3-12\*ap01

5420 sequences assigned  
5336 (98.5%) exact matches, in which:  
5257 unique CDR3  
14 unique J



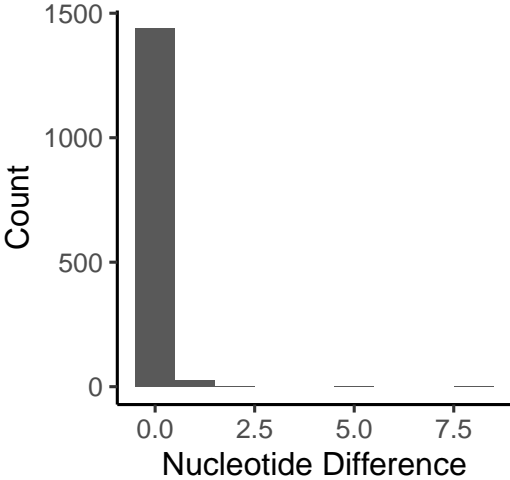
TRBV4-1\*ap01

4297 sequences assigned  
4258 (99.1%) exact matches, in which:  
4203 unique CDR3  
14 unique J



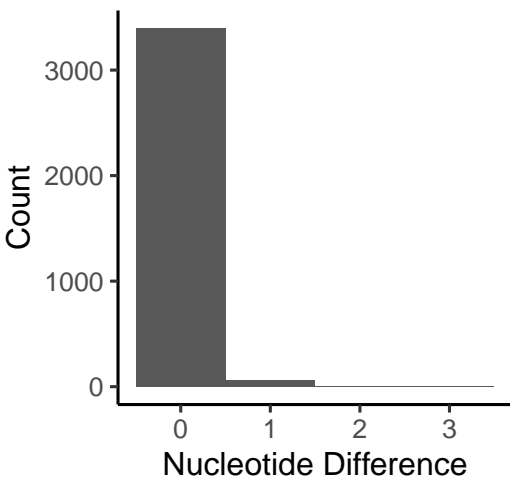
TRBV25-1\*ap01

1470 sequences assigned  
1439 (97.9%) exact matches, in which:  
1419 unique CDR3  
14 unique J



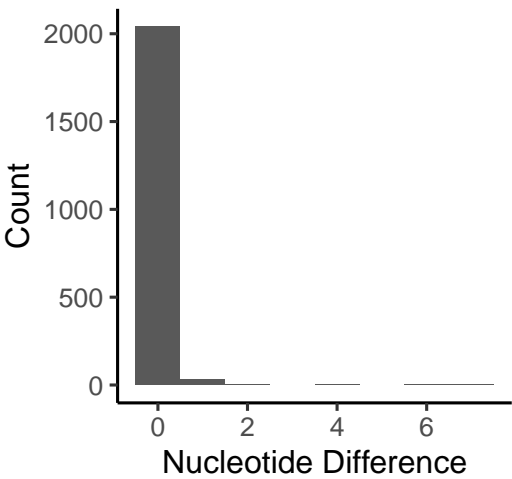
TRBV5-4\*ap01

3464 sequences assigned  
3395 (98%) exact matches, in which:  
3345 unique CDR3  
14 unique J



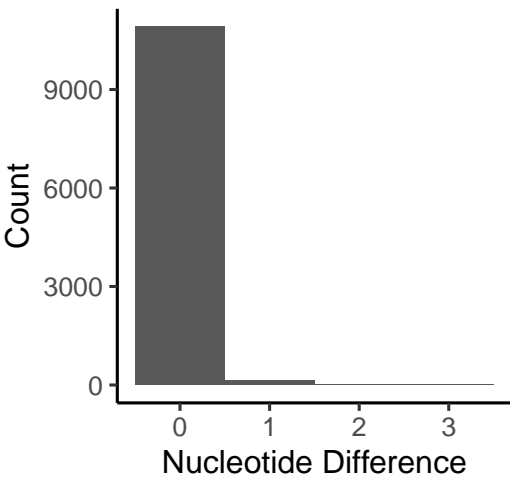
TRBV24-1\*ap01

2078 sequences assigned  
2040 (98.2%) exact matches, in which:  
2016 unique CDR3  
14 unique J



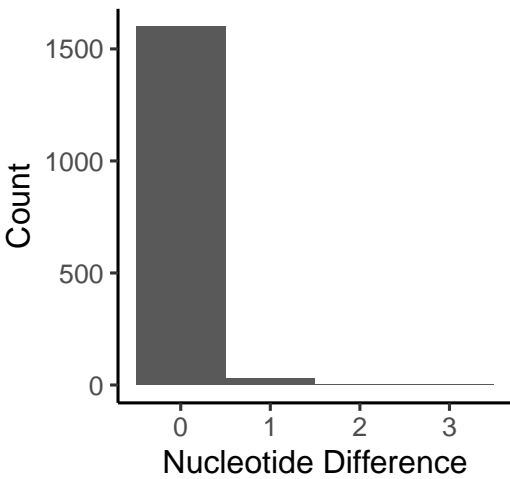
TRBV5-1\*ap01

11068 sequences assigned  
10912 (98.6%) exact matches, in which:  
10678 unique CDR3  
14 unique J



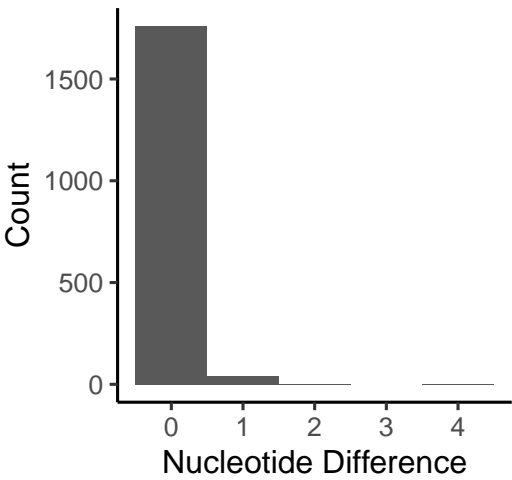
TRBV5-5\*ap01

1632 sequences assigned  
1599 (98%) exact matches, in which:  
1579 unique CDR3  
14 unique J



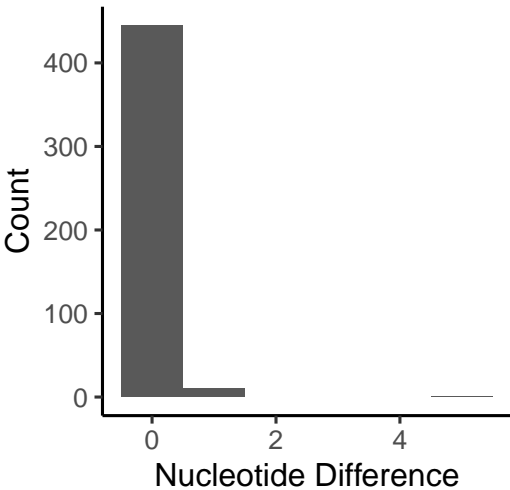
TRBV4-2\*ap01

1805 sequences assigned  
1760 (97.5%) exact matches, in which:  
1731 unique CDR3  
14 unique J



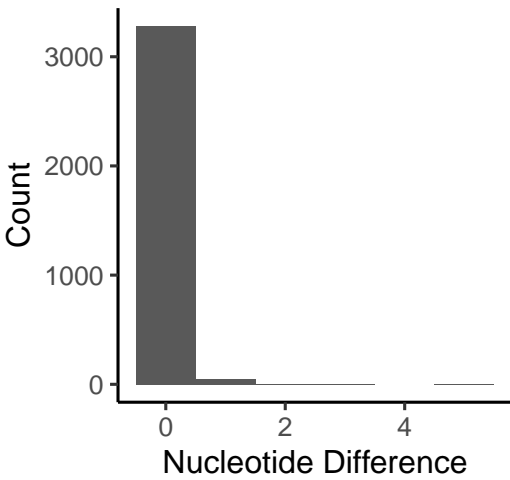
TRBV5-3\*ap01

456 sequences assigned  
445 (97.6%) exact matches, in which:  
435 unique CDR3  
14 unique J



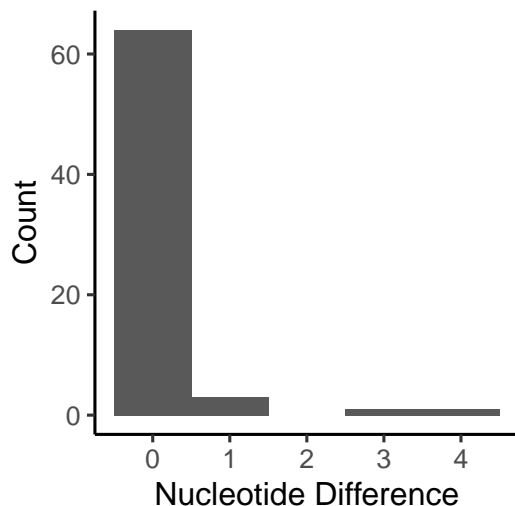
TRBV5-6\*ap01

3337 sequences assigned  
3281 (98.3%) exact matches, in which:  
3203 unique CDR3  
14 unique J



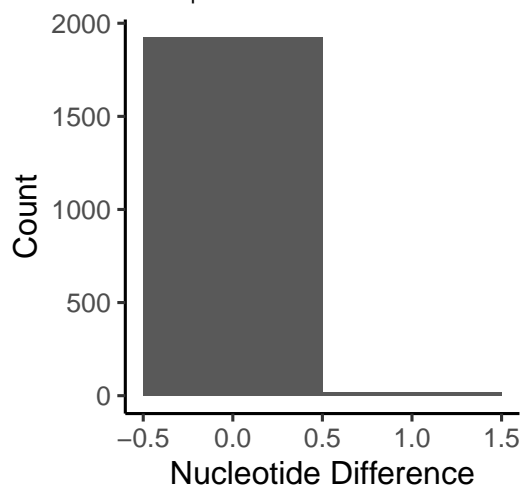
### TRBV5-7\*ap01

69 sequences assigned  
64 (92.8%) exact matches, in which:  
63 unique CDR3  
13 unique J



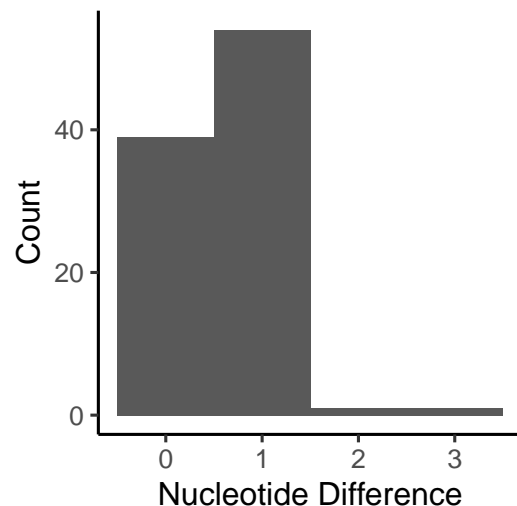
### TRBV6-4\*ap01

1943 sequences assigned  
1924 (99%) exact matches, in which:  
1895 unique CDR3  
14 unique J



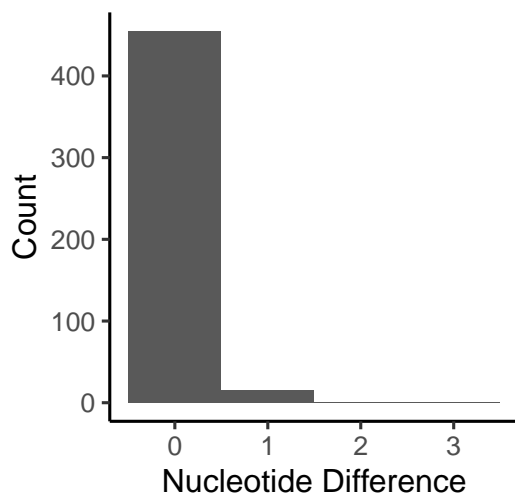
### TRBV6-9\*ap01

95 sequences assigned  
39 (41.1%) exact matches, in which:  
39 unique CDR3  
11 unique J



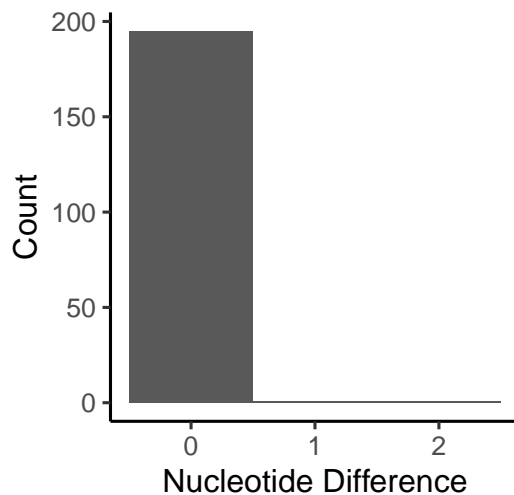
### TRBV5-8\*ap01

472 sequences assigned  
455 (96.4%) exact matches, in which:  
448 unique CDR3  
14 unique J



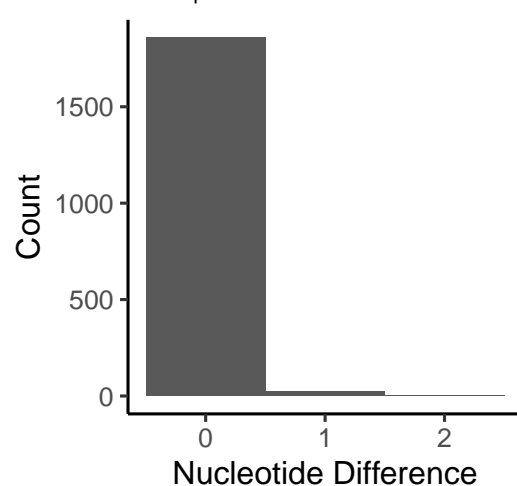
### TRBV6-7\*ap01

197 sequences assigned  
195 (99%) exact matches, in which:  
192 unique CDR3  
14 unique J



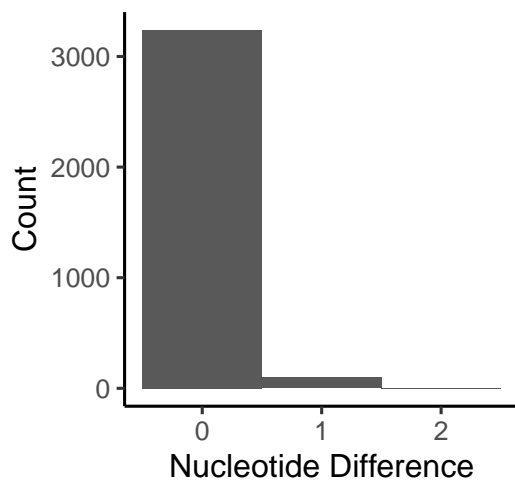
### TRBV6-23\*ap01

1882 sequences assigned  
1858 (98.7%) exact matches, in which:  
1829 unique CDR3  
14 unique J



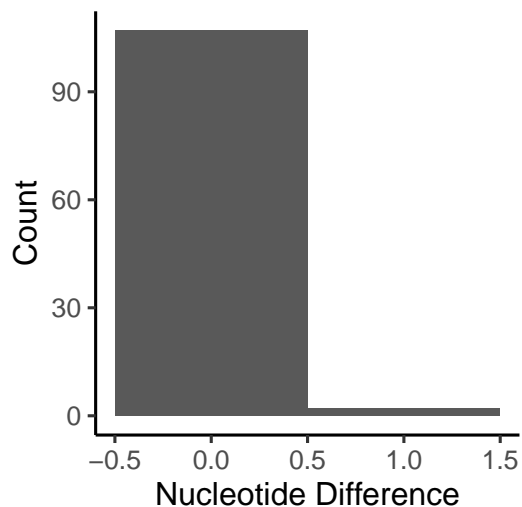
### TRBV6-1\*ap01

3341 sequences assigned  
3239 (96.9%) exact matches, in which:  
3181 unique CDR3  
14 unique J



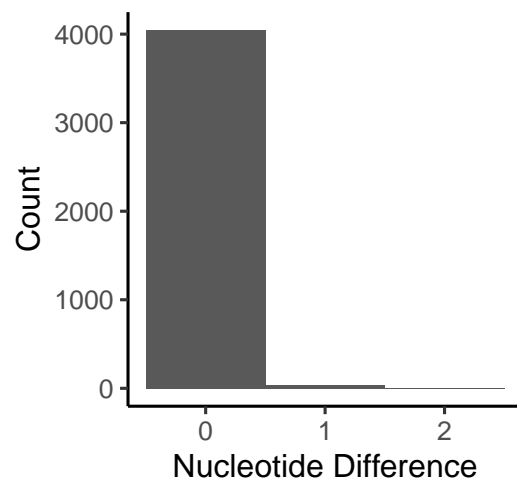
### TRBV6-8\*ap01

109 sequences assigned  
107 (98.2%) exact matches, in which:  
105 unique CDR3  
14 unique J



### TRBV6-56\*ap01

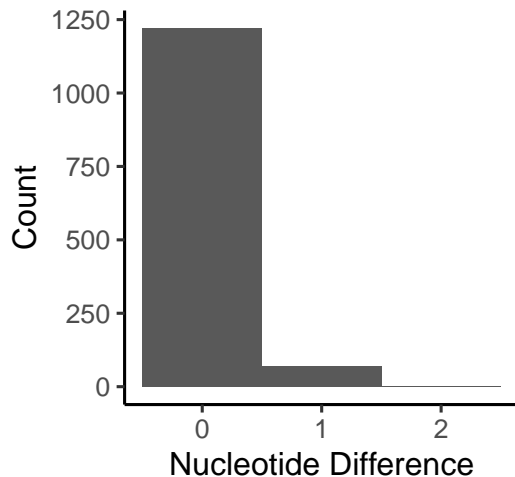
4087 sequences assigned  
4046 (99%) exact matches, in which:  
3981 unique CDR3  
14 unique J





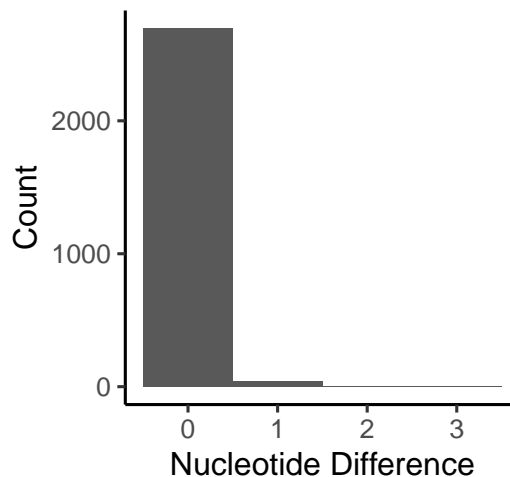
### TRBV6-56\*ap02

1294 sequences assigned  
1220 (94.3%) exact matches, in which:  
1205 unique CDR3  
15 unique J



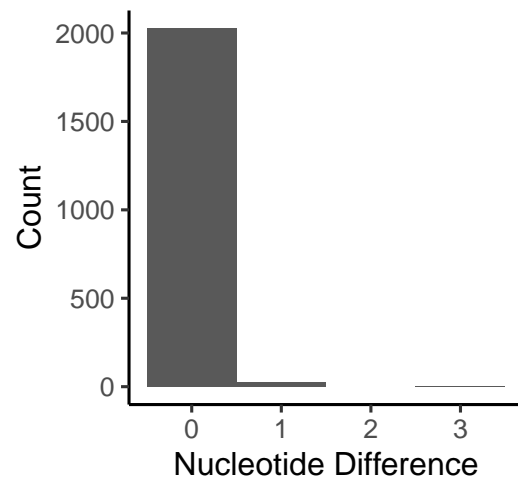
### TRBV7-2\*ap01

2739 sequences assigned  
2695 (98.4%) exact matches, in which:  
2633 unique CDR3  
14 unique J



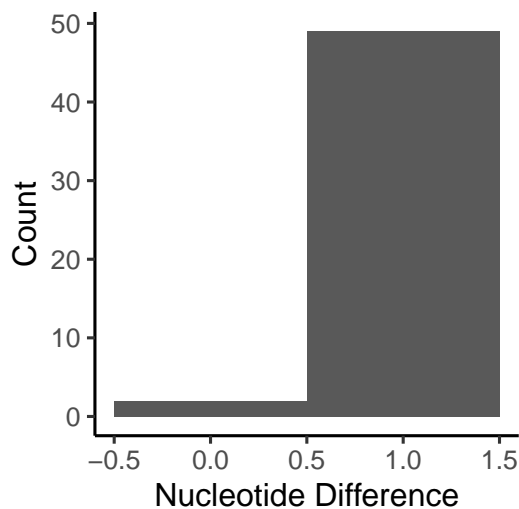
### TRBV7-6\*ap01

2054 sequences assigned  
2026 (98.6%) exact matches, in which:  
1993 unique CDR3  
14 unique J



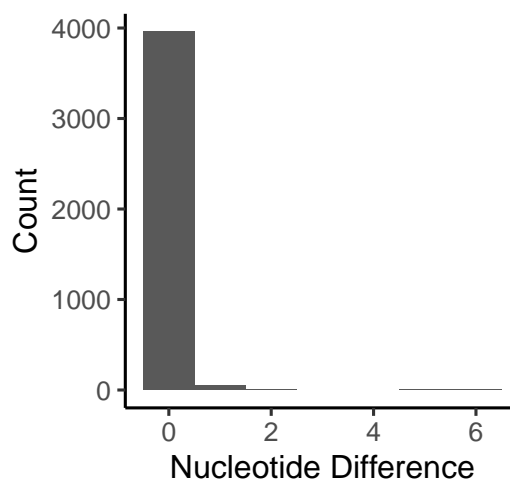
### TRBV7-1\*ap01\_T296C

51 sequences assigned  
2 (3.9%) exact matches, in which:  
2 unique CDR3  
2 unique J



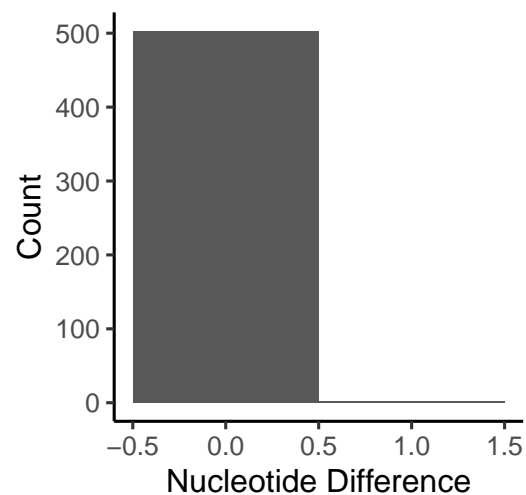
### TRBV7-3\*ap01

4014 sequences assigned  
3959 (98.6%) exact matches, in which:  
3895 unique CDR3  
14 unique J



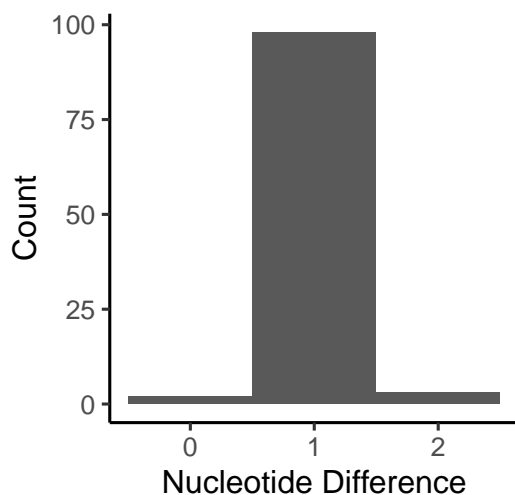
### TRBV7-7\*ap01

505 sequences assigned  
503 (99.6%) exact matches, in which:  
492 unique CDR3  
13 unique J



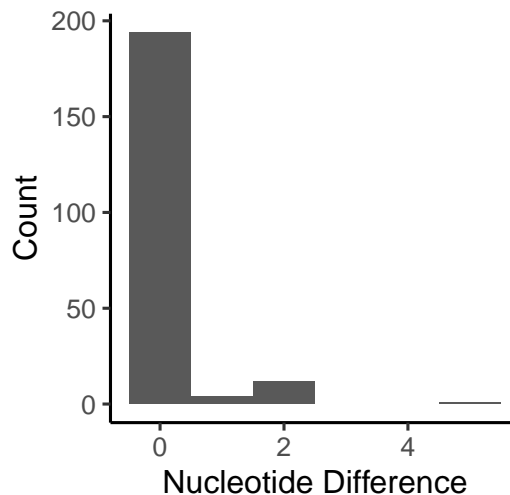
### TRBV7-1\*ap01\_T296C\_C

103 sequences assigned  
2 (1.9%) exact matches, in which:  
2 unique CDR3  
2 unique J



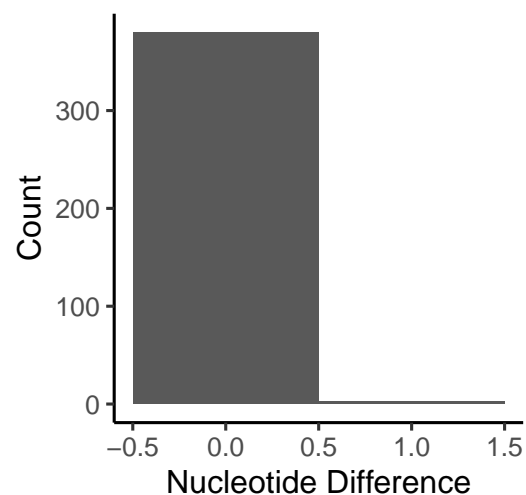
### TRBV7-4\*ap01

211 sequences assigned  
194 (91.9%) exact matches, in which:  
191 unique CDR3  
14 unique J



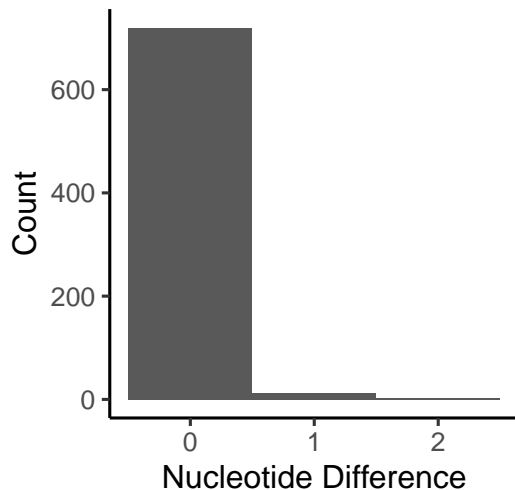
### TRBV7-7\*ap01\_C315T

383 sequences assigned  
380 (99.2%) exact matches, in which:  
376 unique CDR3  
13 unique J



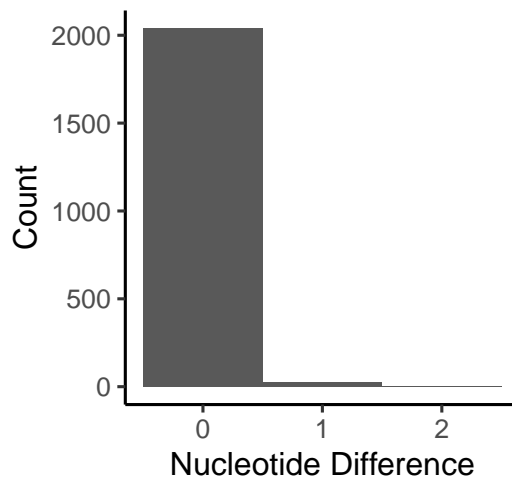
### TRBV7-8\*ap01

736 sequences assigned  
720 (97.8%) exact matches, in which:  
709 unique CDR3  
14 unique J



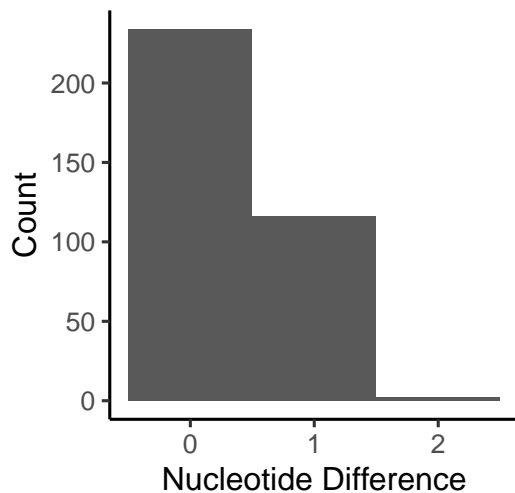
### TRBV29-1\*ap01

2071 sequences assigned  
2039 (98.5%) exact matches, in which:  
2019 unique CDR3  
14 unique J



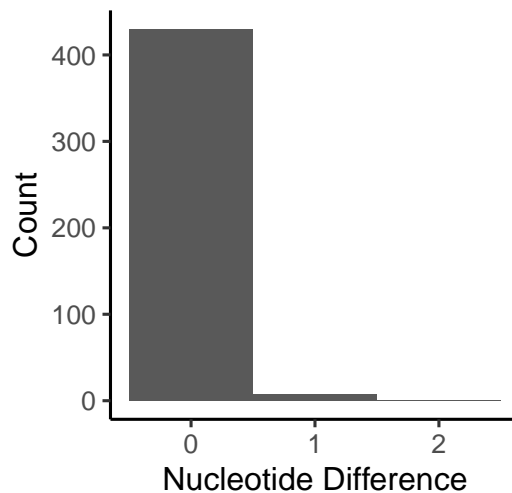
### TRBV7-8\*ap03

352 sequences assigned  
234 (66.5%) exact matches, in which:  
233 unique CDR3  
13 unique J



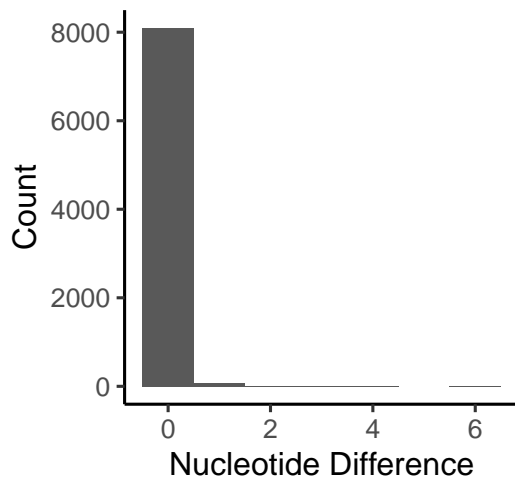
### TRBV29-1\*ap02

438 sequences assigned  
430 (98.2%) exact matches, in which:  
423 unique CDR3  
14 unique J

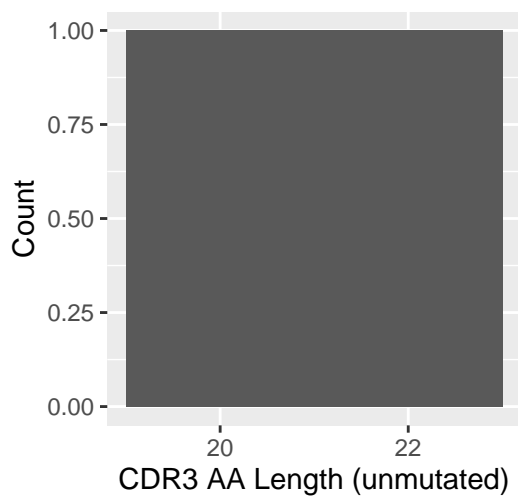


### TRBV7-9\*ap01

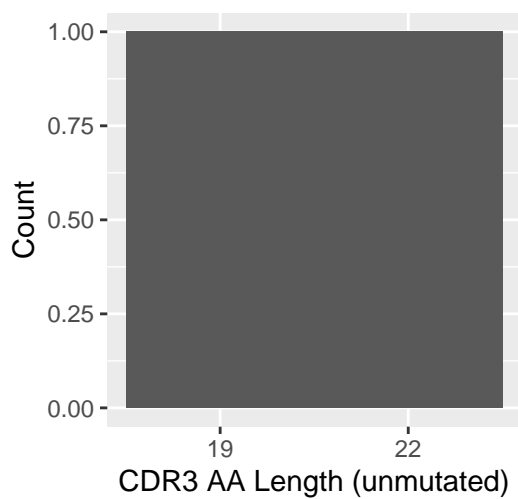
8172 sequences assigned  
8094 (99%) exact matches, in which:  
7975 unique CDR3  
14 unique J



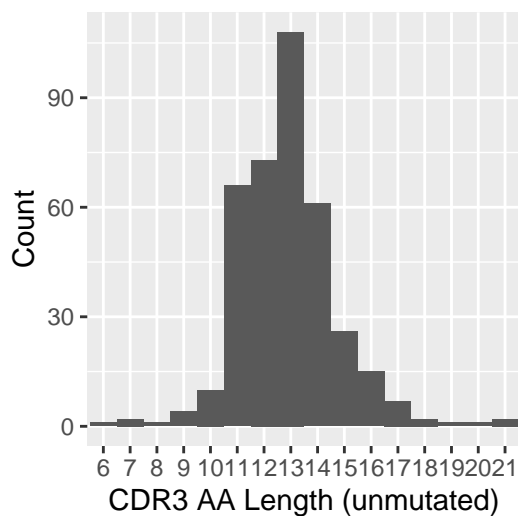
TRBV7-1\*ap01\_T296C\_C314T

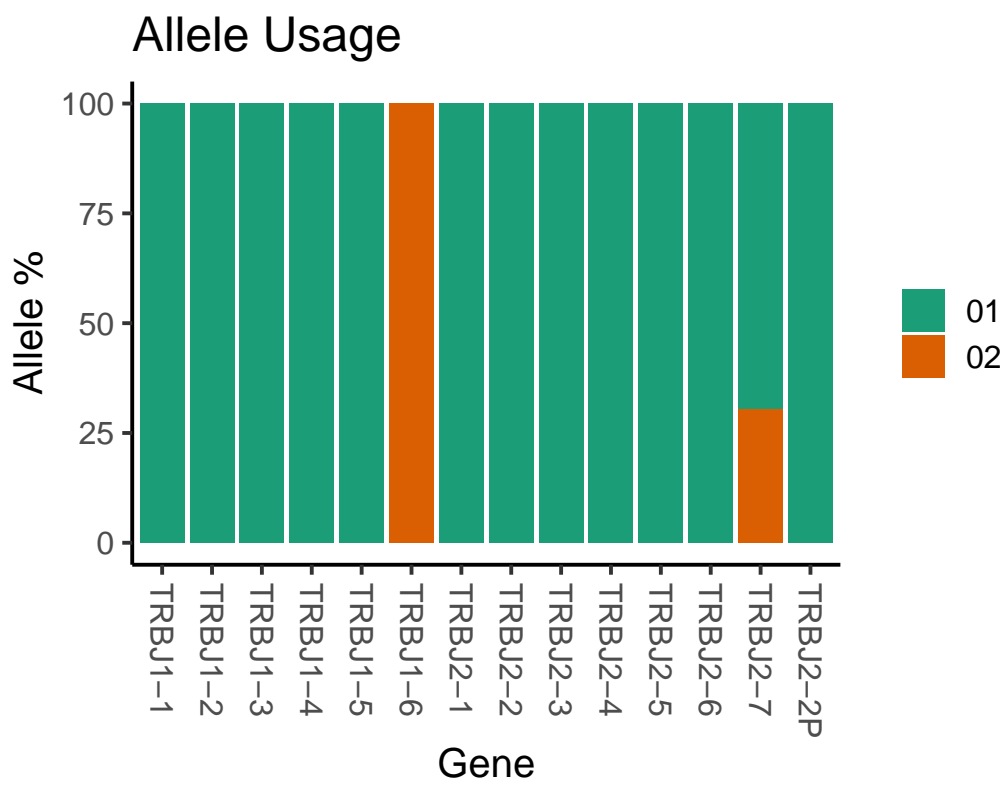


TRBV7-1\*ap01\_T296C

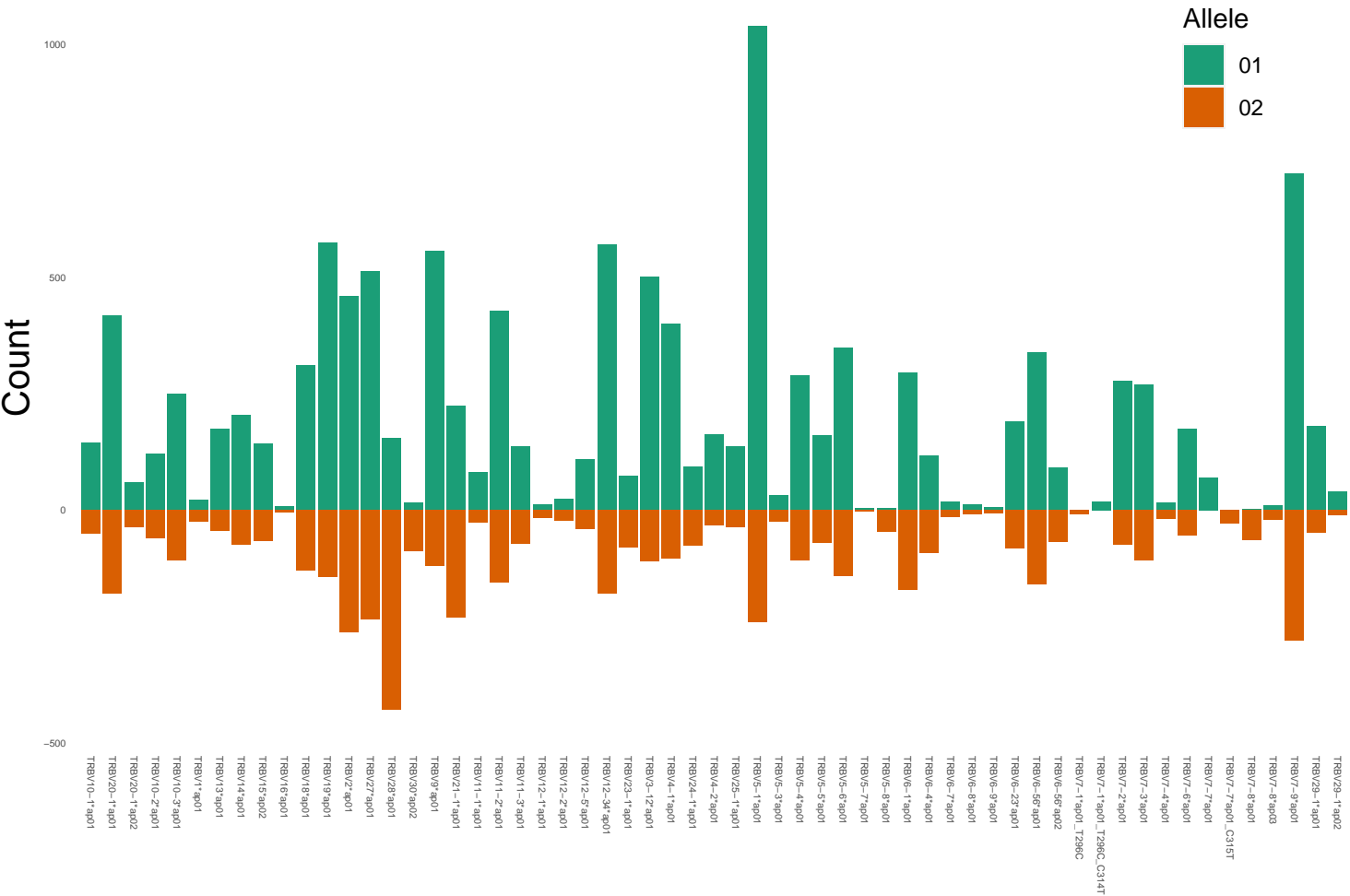


TRBV7-7\*ap01\_C315T





Sequence Count by TRBJ2-7 allele usage



[illegible]