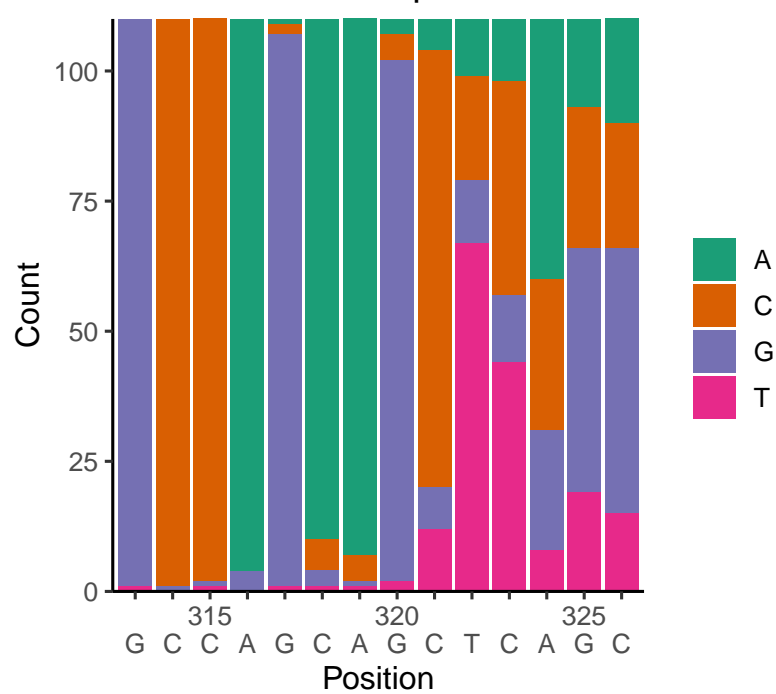
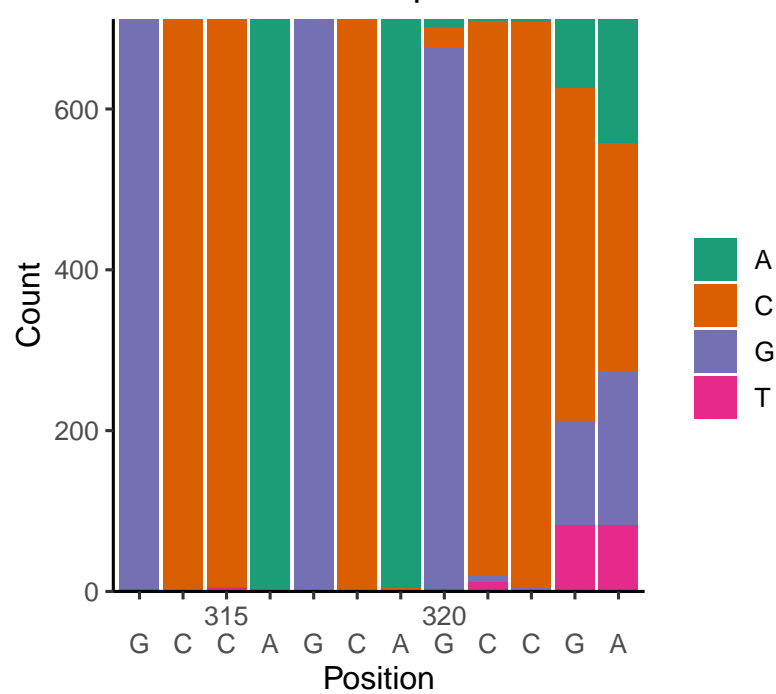


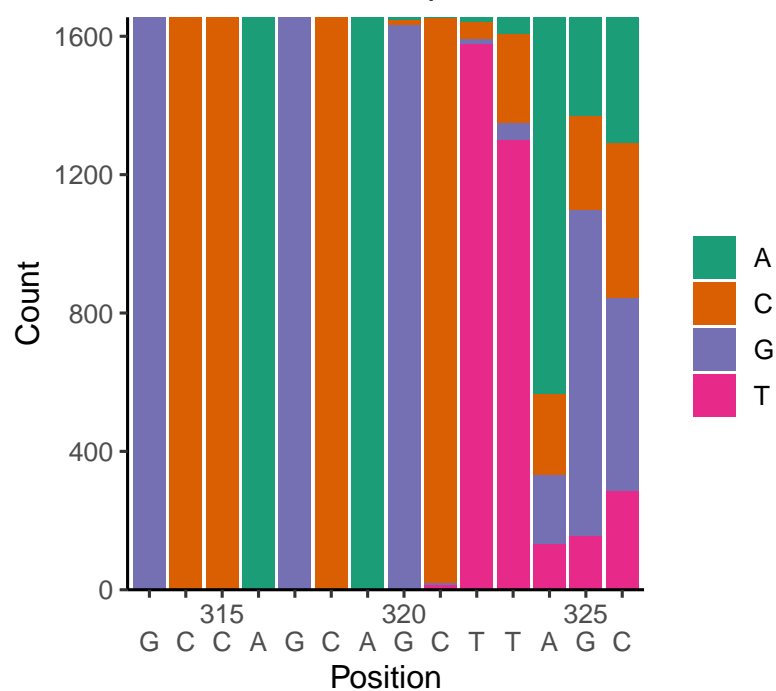
Gene TRBV7-1\*ap01\_G291C\_T296C



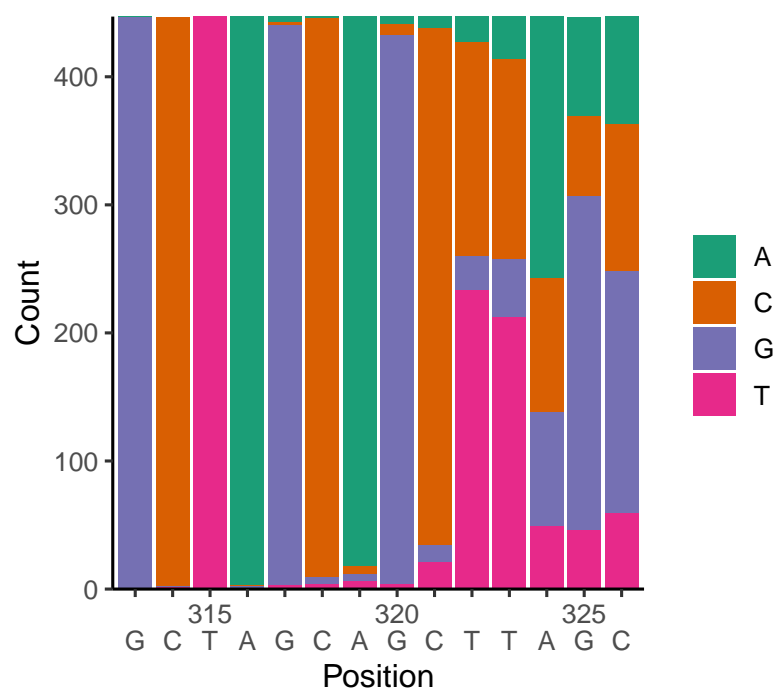
Gene TRBV7-8\*ap03\_C297A



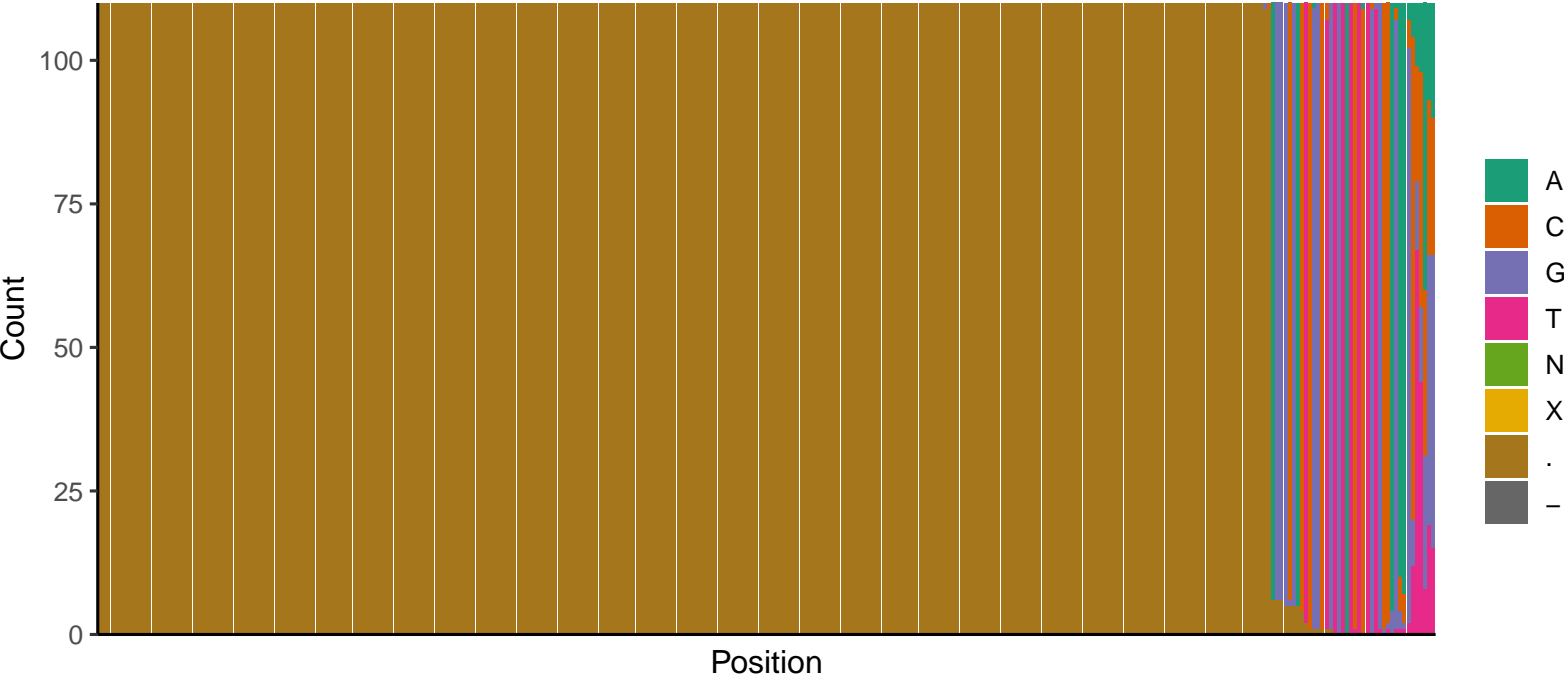
Gene TRBV7-2\*ap01\_G297A



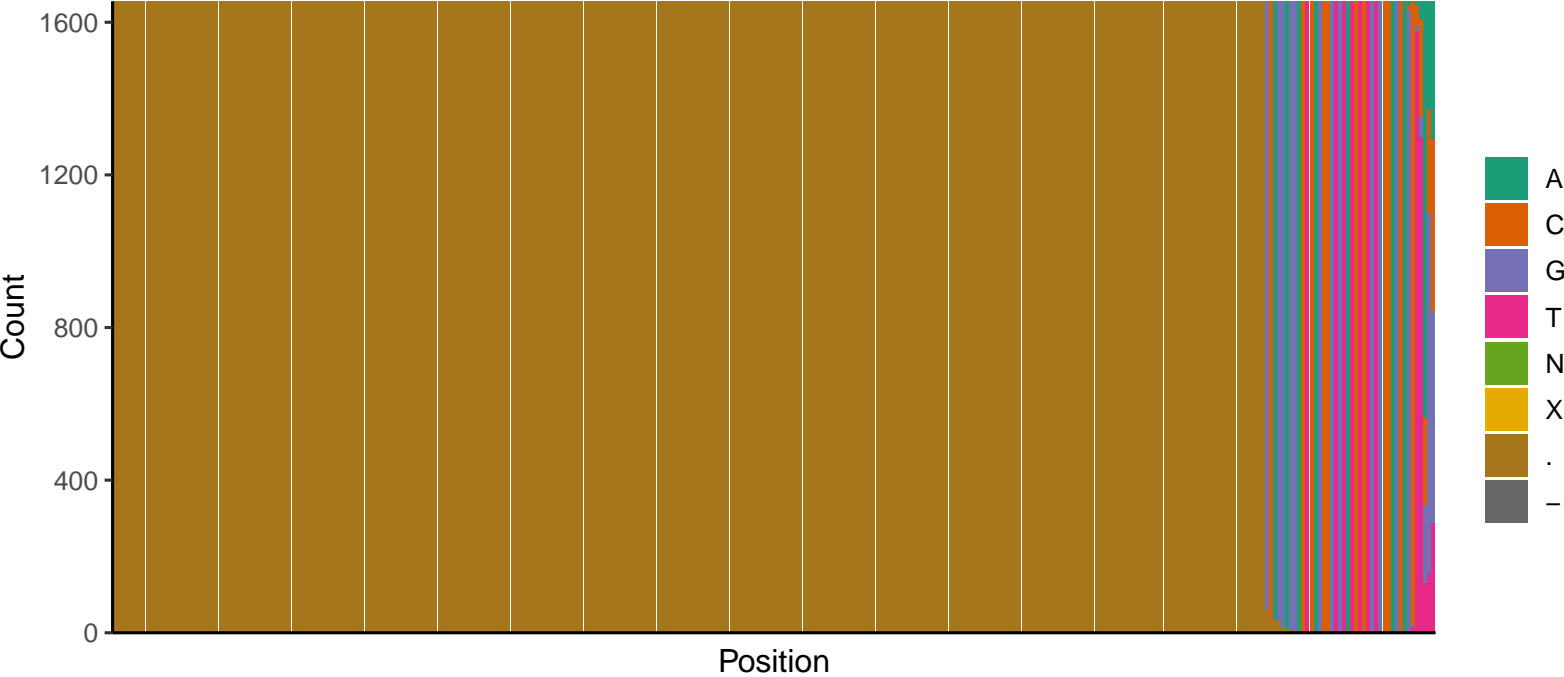
Gene TRBV7-7\*ap01\_C315T



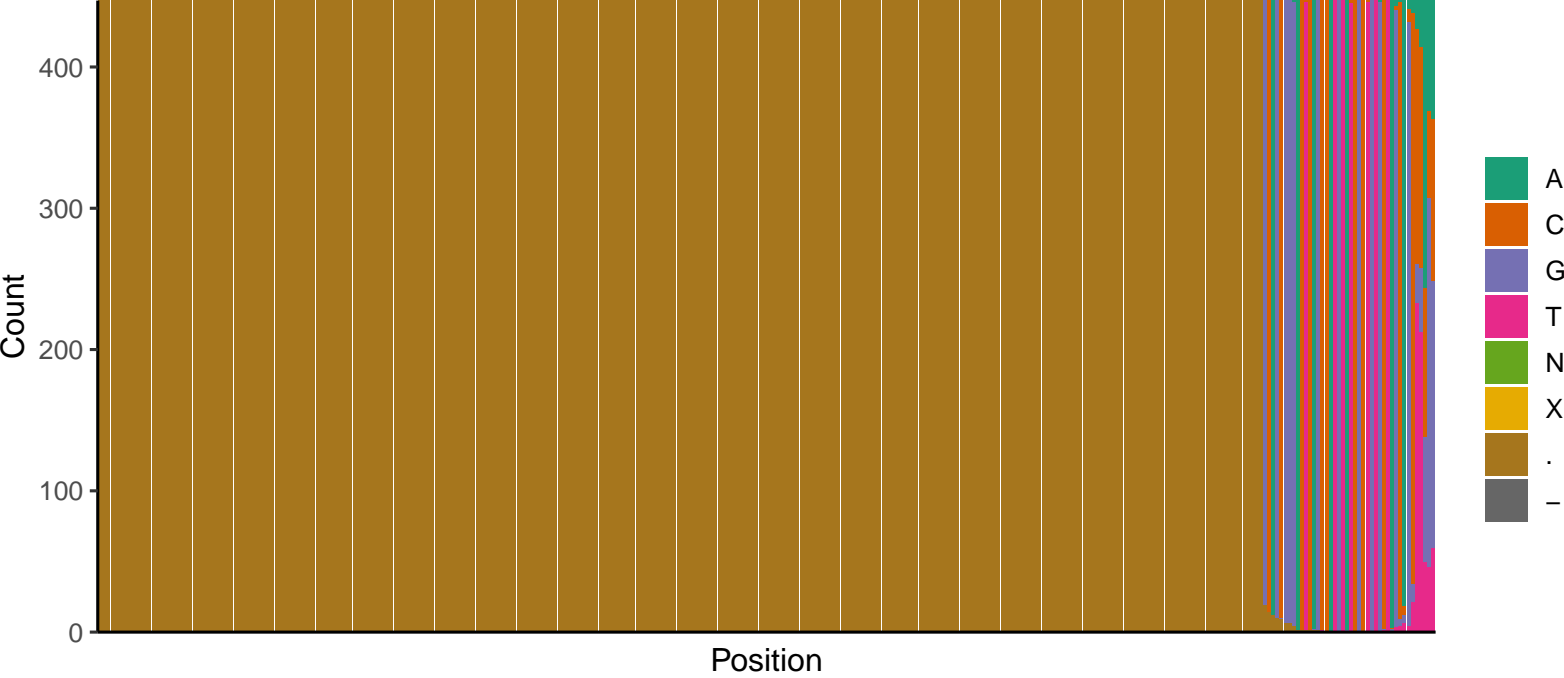
Gene TRBV7-1\*ap01\_G291C\_T296C



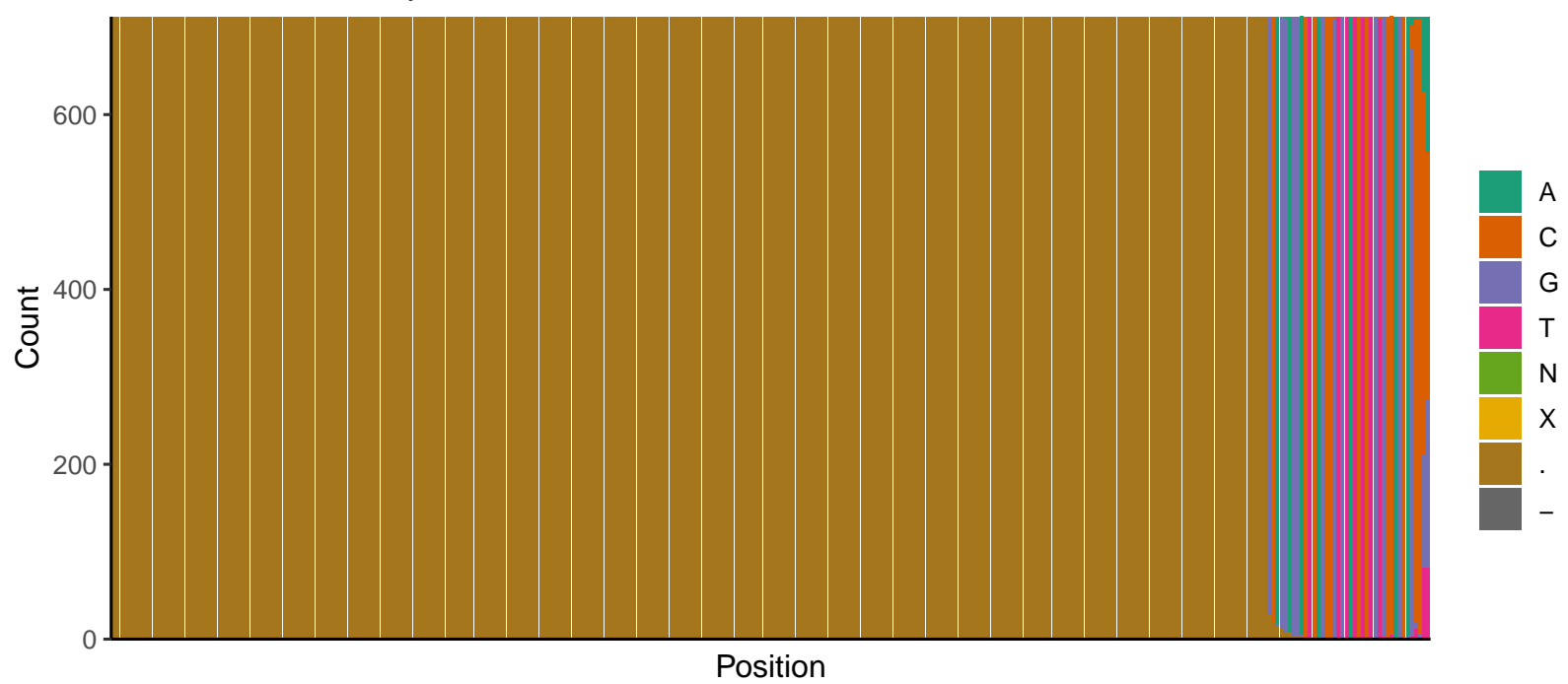
Gene TRBV7-2\*ap01\_G297A



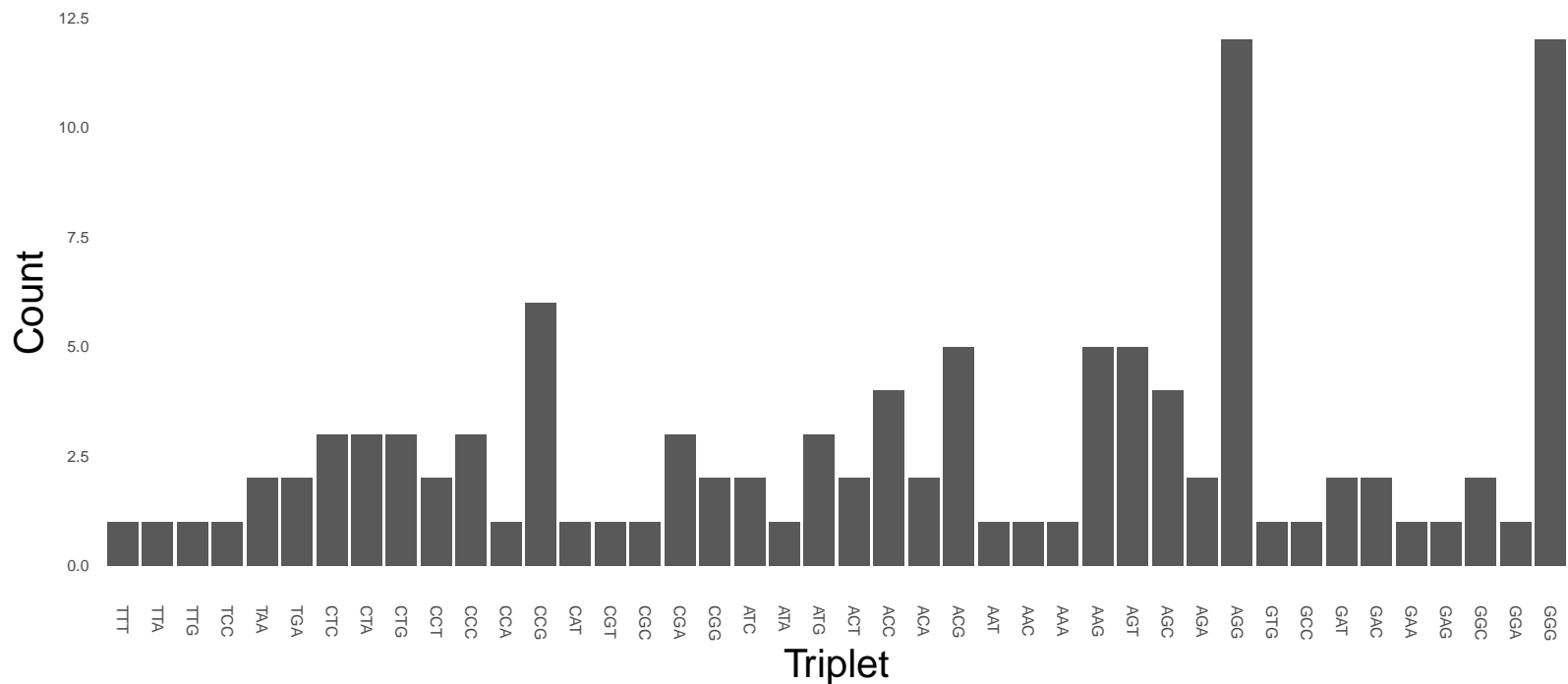
Gene TRBV7-7\*ap01\_C315T



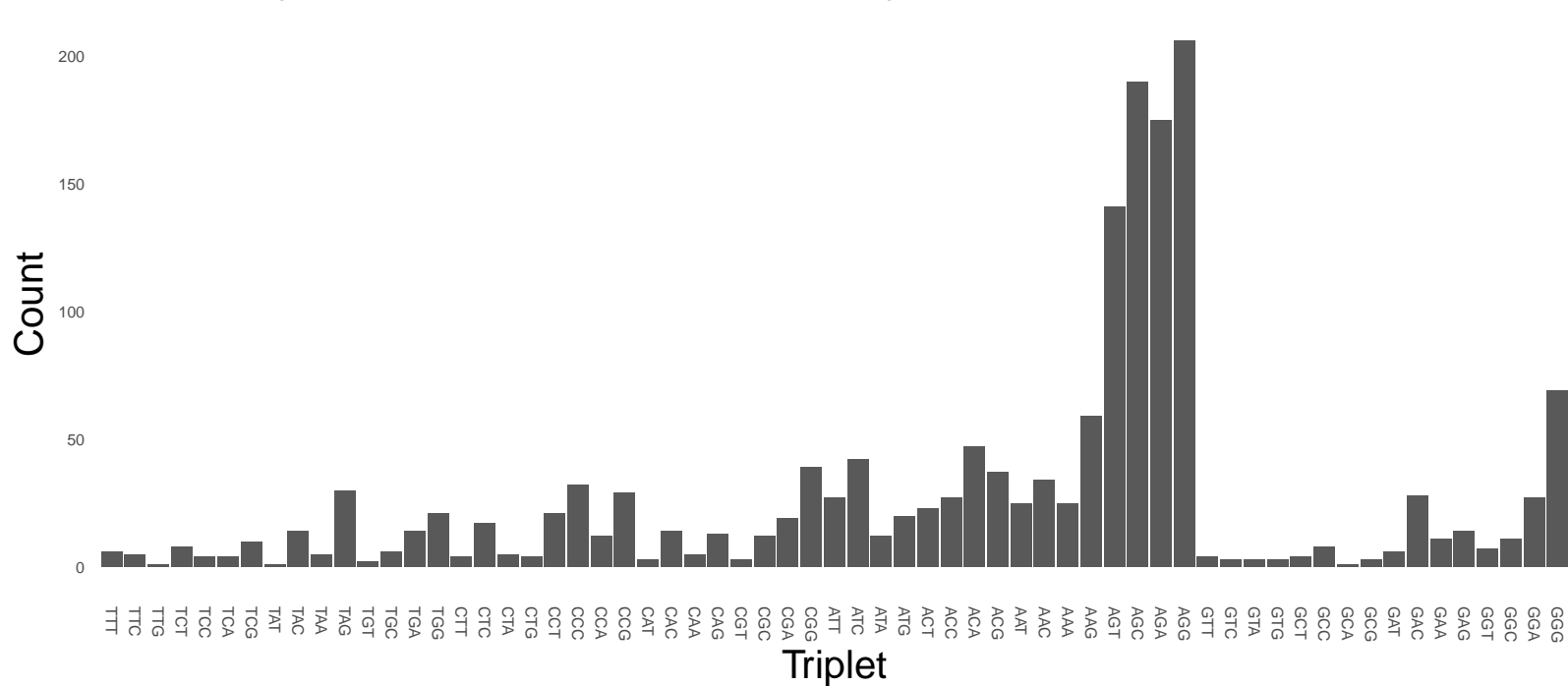
Gene TRBV7-8\*ap03\_C297A



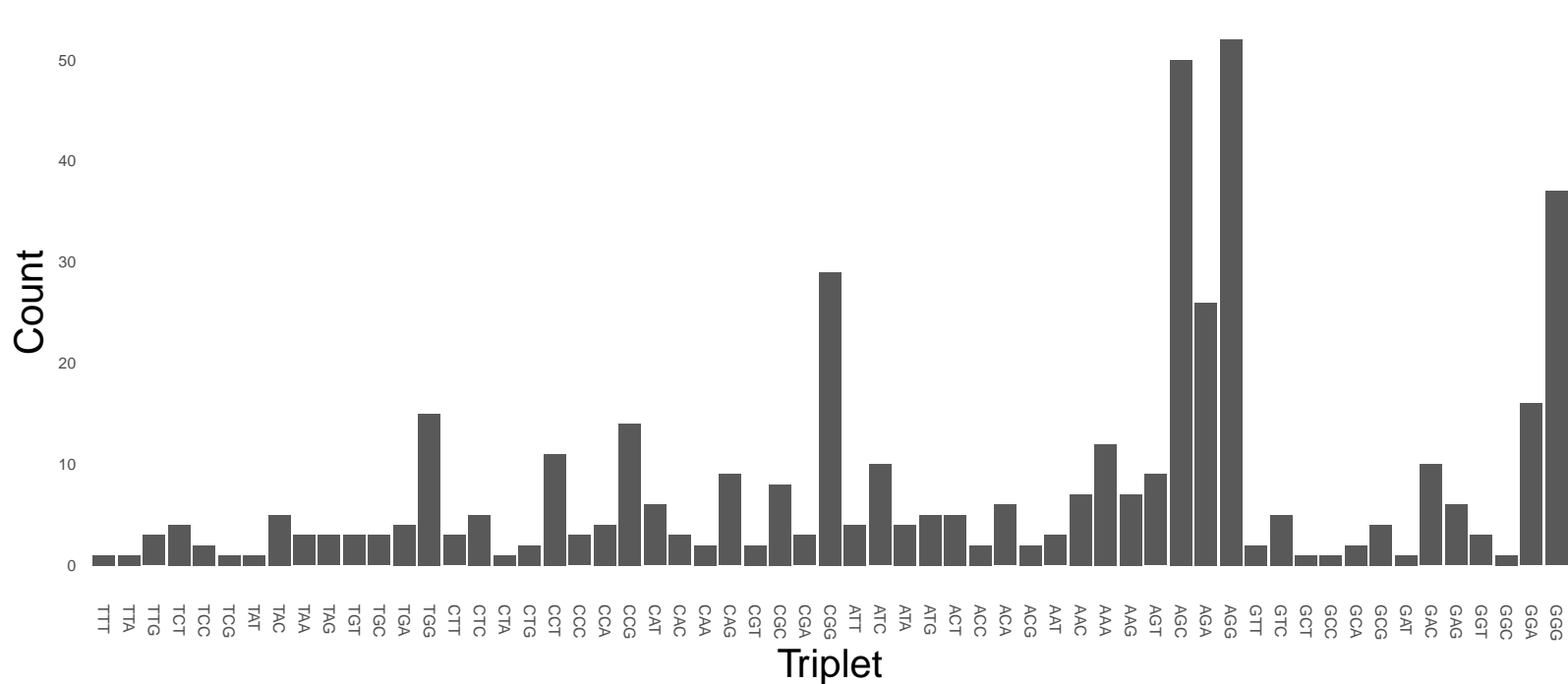
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



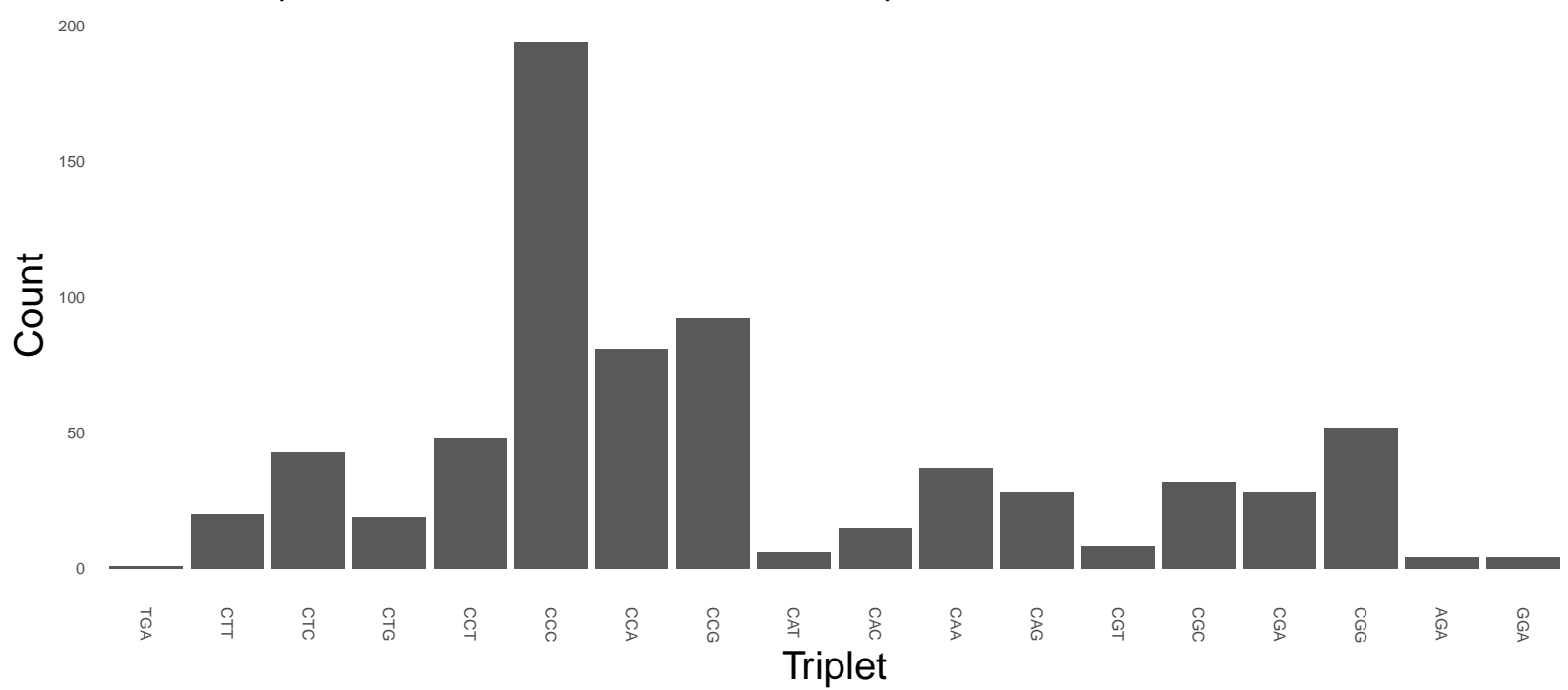
TRBV7-2\*ap01\_G297A- Final 3 nucleotides as a triplet



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

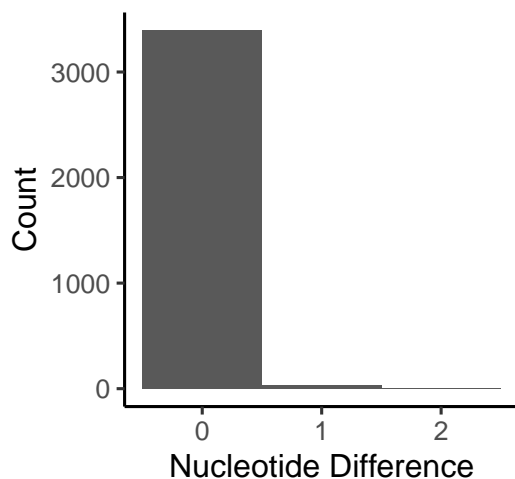


TRBV7-8\*ap03\_C297A- Final 3 nucleotides as a triplet



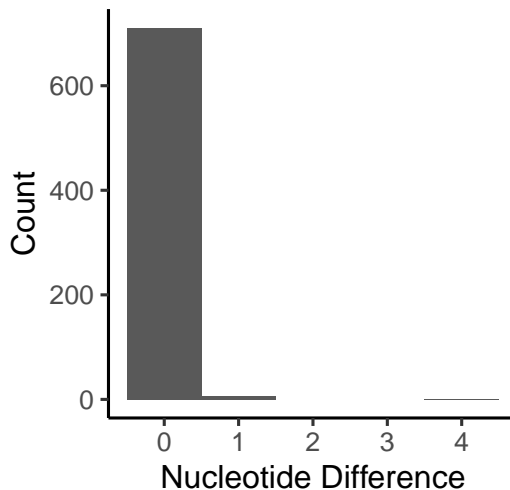
### TRBV20-1\*ap01

3424 sequences assigned  
3394 (99.1%) exact matches, in which:  
3323 unique CDR3  
13 unique J



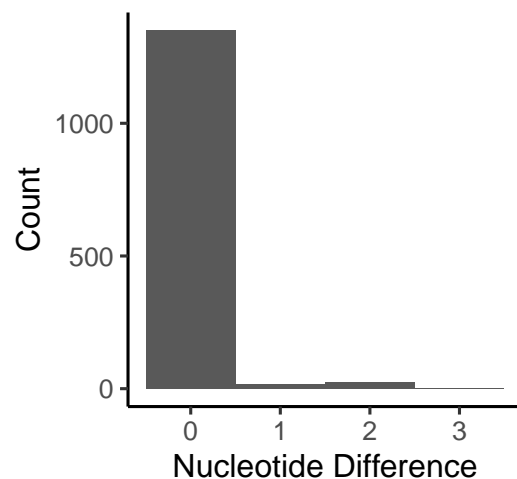
### TRBV10-2\*ap01

719 sequences assigned  
711 (98.9%) exact matches, in which:  
696 unique CDR3  
13 unique J



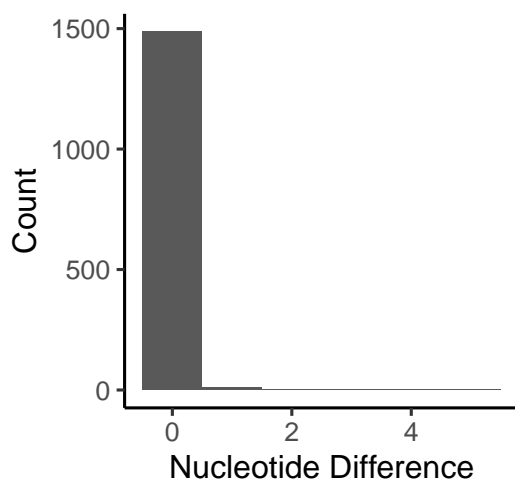
### TRBV13\*ap01

1395 sequences assigned  
1350 (96.8%) exact matches, in which:  
1310 unique CDR3  
13 unique J



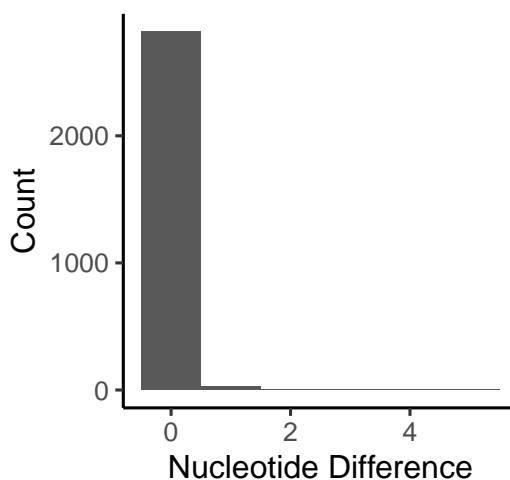
### TRBV10-1\*ap01

1504 sequences assigned  
1487 (98.9%) exact matches, in which:  
1452 unique CDR3  
13 unique J



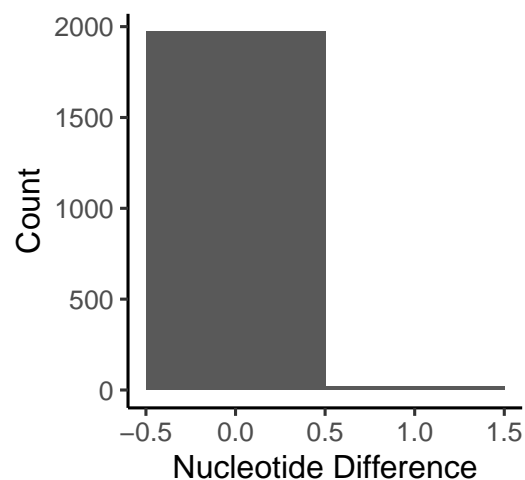
### TRBV10-3\*ap01

2852 sequences assigned  
2819 (98.8%) exact matches, in which:  
2753 unique CDR3  
13 unique J



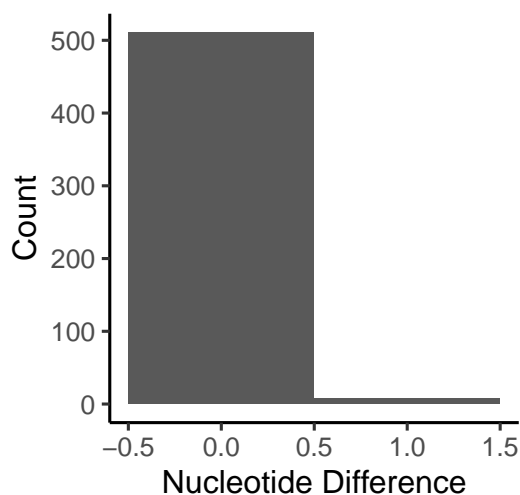
### TRBV14\*ap01

1994 sequences assigned  
1972 (98.9%) exact matches, in which:  
1924 unique CDR3  
13 unique J



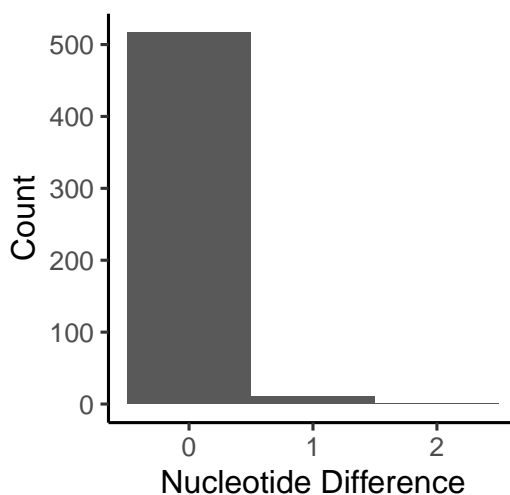
### TRBV20-1\*ap02

519 sequences assigned  
511 (98.5%) exact matches, in which:  
497 unique CDR3  
13 unique J



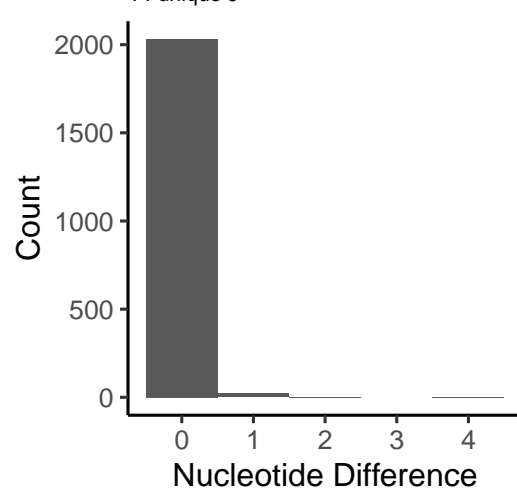
### TRBV1\*ap01

529 sequences assigned  
517 (97.7%) exact matches, in which:  
507 unique CDR3  
13 unique J



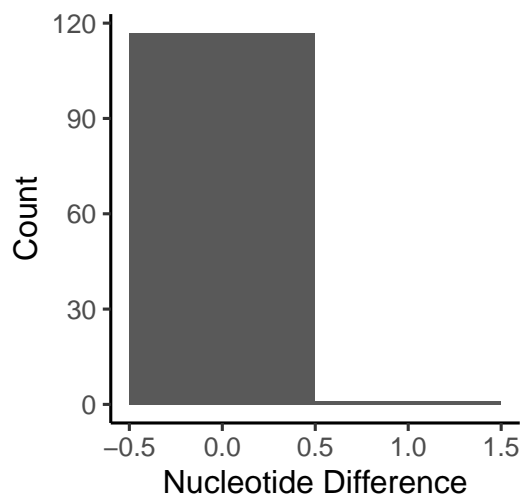
### TRBV15\*ap02

2055 sequences assigned  
2032 (98.9%) exact matches, in which:  
1969 unique CDR3  
14 unique J



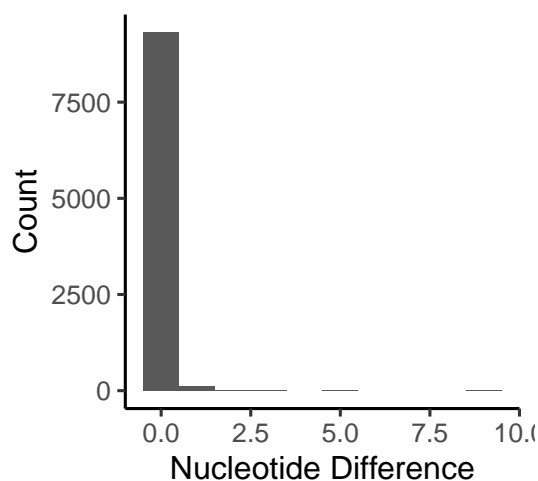
### TRBV16\*ap01

118 sequences assigned  
117 (99.2%) exact matches, in which:  
115 unique CDR3  
13 unique J



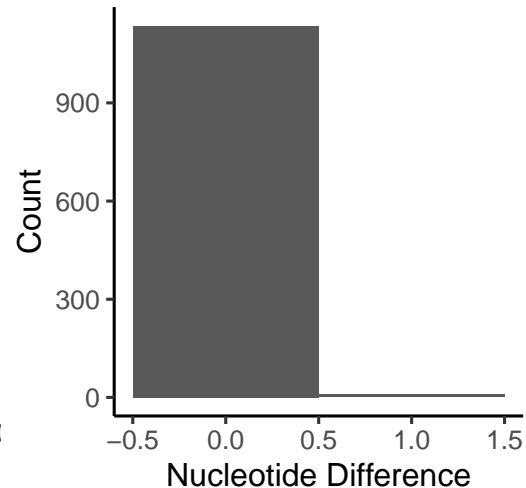
### TRBV19\*ap01

9442 sequences assigned  
9313 (98.6%) exact matches, in which:  
9163 unique CDR3  
13 unique J



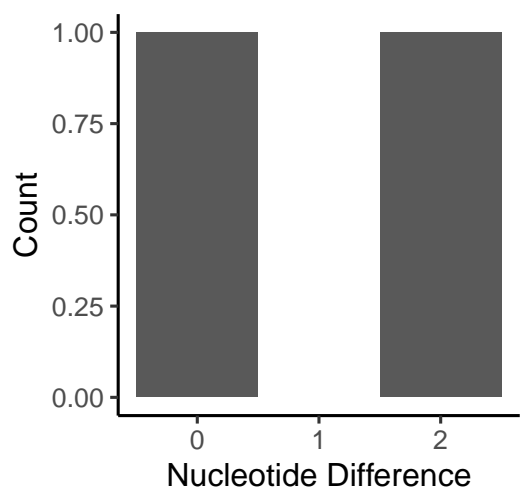
### TRBV28\*ap01

1145 sequences assigned  
1136 (99.2%) exact matches, in which:  
1108 unique CDR3  
13 unique J



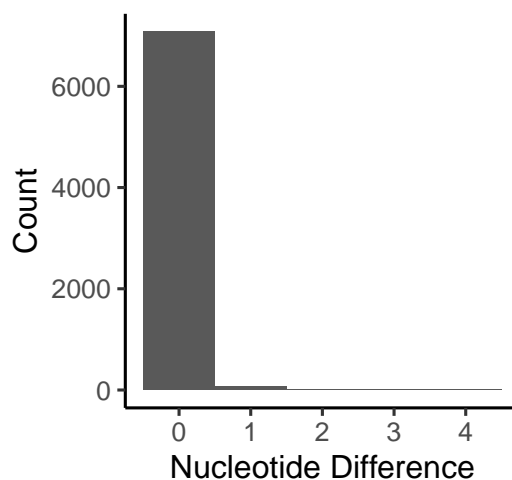
### TRBV17\*ap01

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



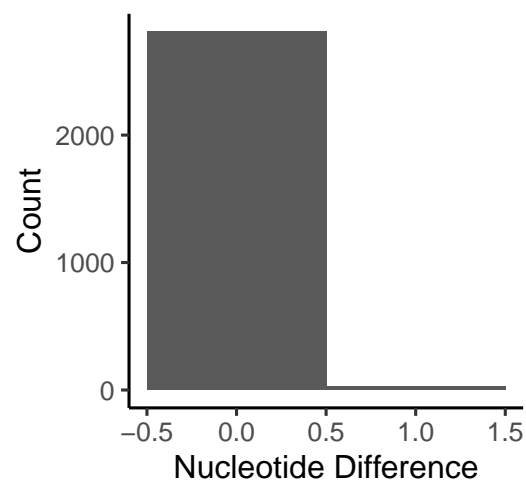
### TRBV2\*ap01

7166 sequences assigned  
7079 (98.8%) exact matches, in which:  
6959 unique CDR3  
13 unique J



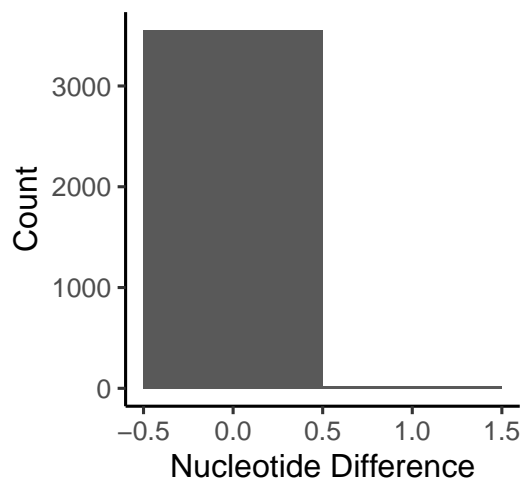
### TRBV30\*ap01

2838 sequences assigned  
2811 (99%) exact matches, in which:  
2777 unique CDR3  
13 unique J



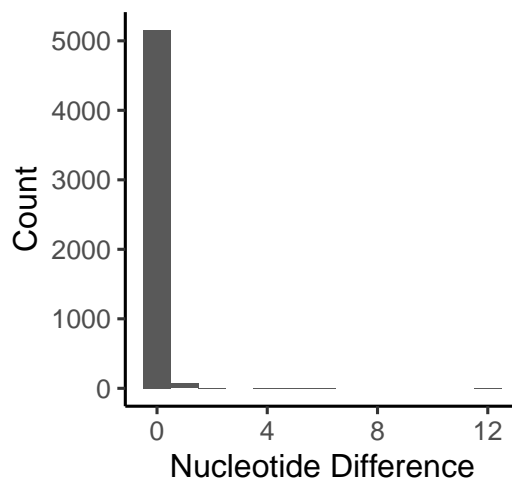
### TRBV18\*ap01

3581 sequences assigned  
3555 (99.3%) exact matches, in which:  
3479 unique CDR3  
13 unique J



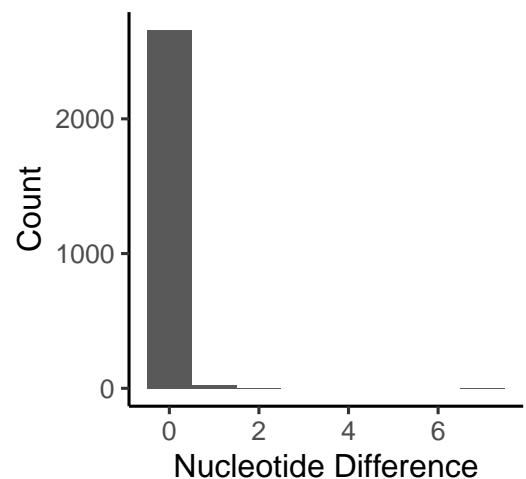
### TRBV27\*ap01

5239 sequences assigned  
5155 (98.4%) exact matches, in which:  
5054 unique CDR3  
13 unique J



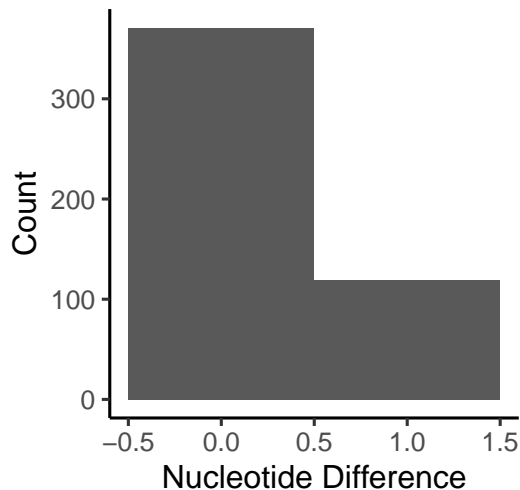
### TRBV30\*ap02

2688 sequences assigned  
2659 (98.9%) exact matches, in which:  
2623 unique CDR3  
13 unique J



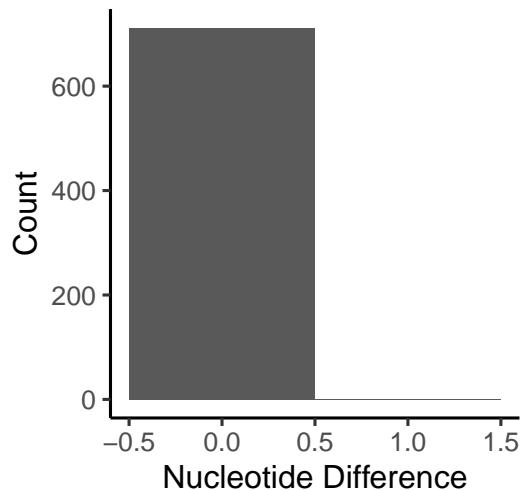
### TRBV30\*ap03

490 sequences assigned  
371 (75.7%) exact matches, in which:  
366 unique CDR3  
13 unique J



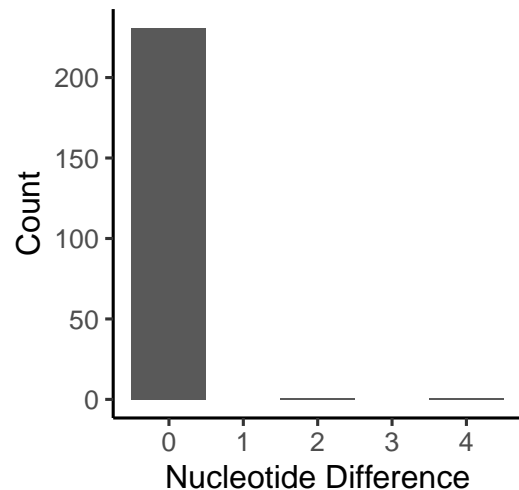
### TRBV11-1\*ap01

713 sequences assigned  
712 (99.9%) exact matches, in which:  
700 unique CDR3  
13 unique J



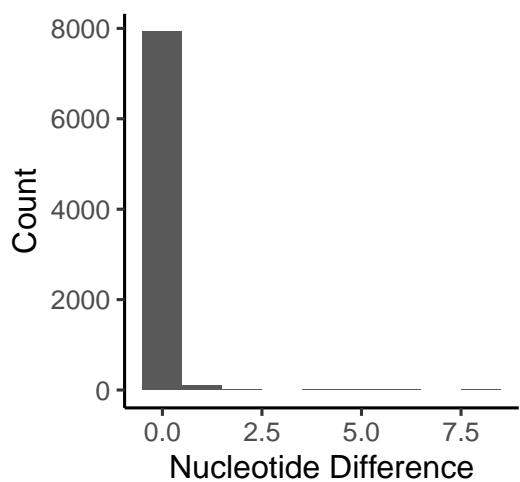
### TRBV12-1\*ap01

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



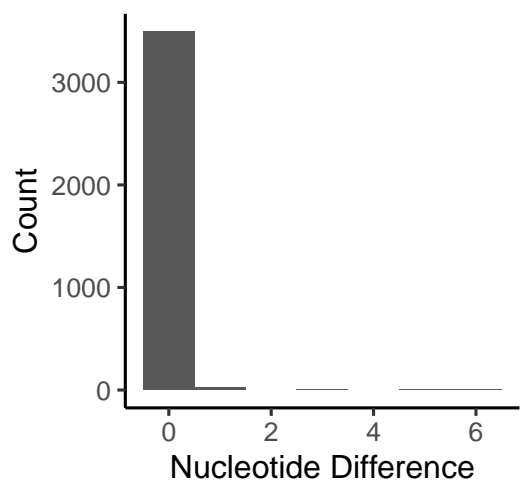
### TRBV9\*ap01

8024 sequences assigned  
7926 (98.8%) exact matches, in which:  
7769 unique CDR3  
13 unique J



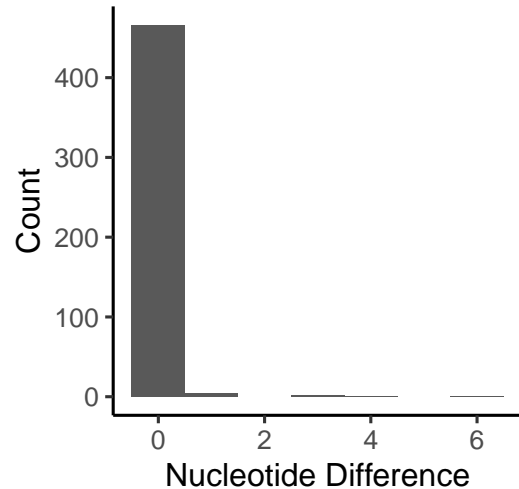
### TRBV11-2\*ap01

3526 sequences assigned  
3494 (99.1%) exact matches, in which:  
3421 unique CDR3  
13 unique J



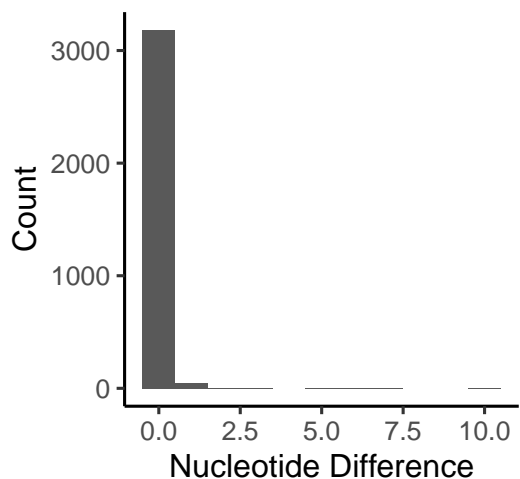
### TRBV12-2\*ap01

474 sequences assigned  
466 (98.3%) exact matches, in which:  
453 unique CDR3  
13 unique J



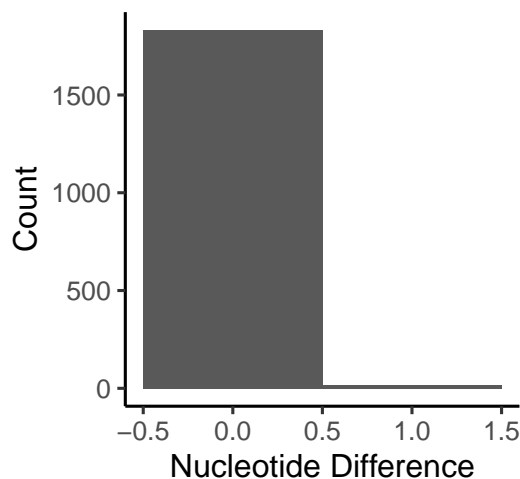
### TRBV21-1\*ap01

3243 sequences assigned  
3182 (98.1%) exact matches, in which:  
3114 unique CDR3  
13 unique J



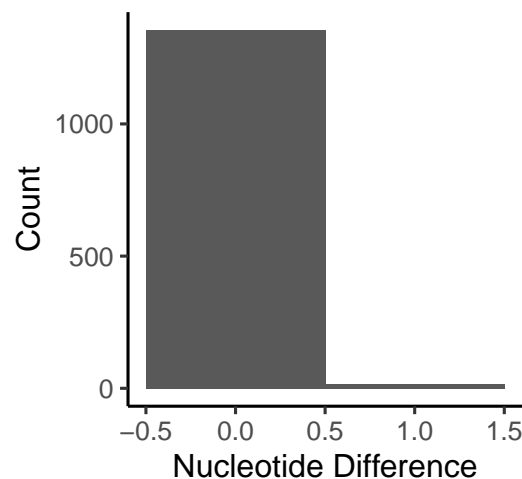
### TRBV11-3\*ap01

1849 sequences assigned  
1832 (99.1%) exact matches, in which:  
1809 unique CDR3  
13 unique J



### TRBV12-5\*ap01

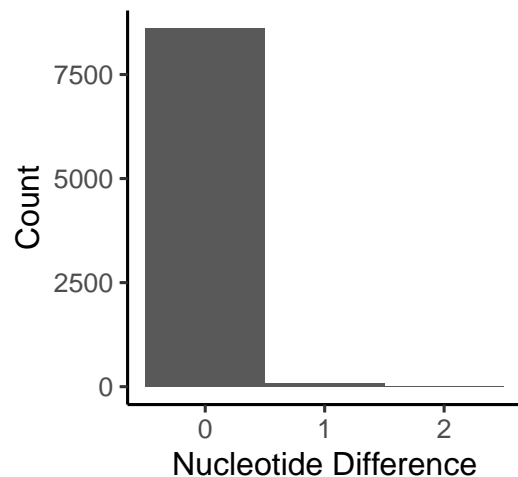
1372 sequences assigned  
1355 (98.8%) exact matches, in which:  
1327 unique CDR3  
13 unique J





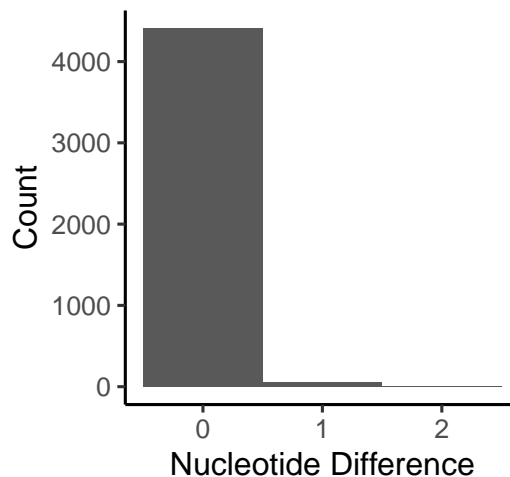
### TRBV12-34\*ap01

8702 sequences assigned  
8608 (98.9%) exact matches, in which:  
8437 unique CDR3  
13 unique J



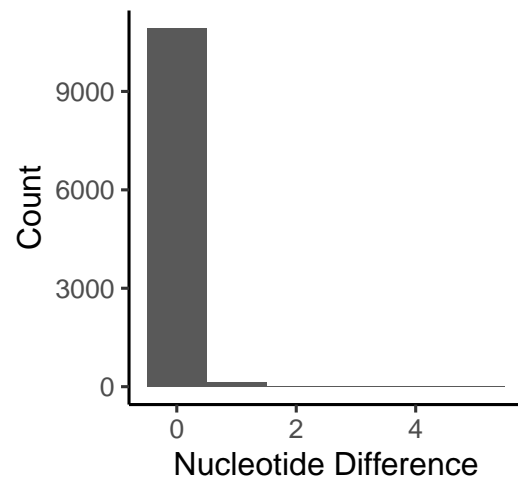
### TRBV4-1\*ap01

4461 sequences assigned  
4408 (98.8%) exact matches, in which:  
4302 unique CDR3  
13 unique J



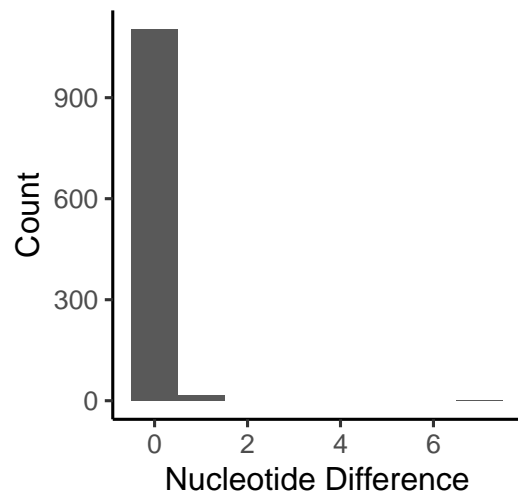
### TRBV5-1\*ap01

11063 sequences assigned  
10921 (98.7%) exact matches, in which:  
10615 unique CDR3  
13 unique J



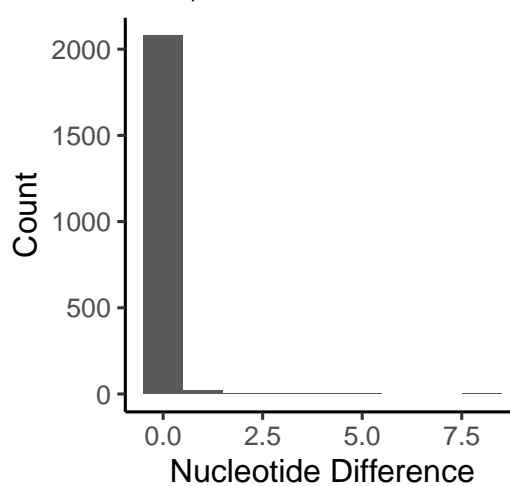
### TRBV23-1\*ap01

1122 sequences assigned  
1104 (98.4%) exact matches, in which:  
1073 unique CDR3  
13 unique J



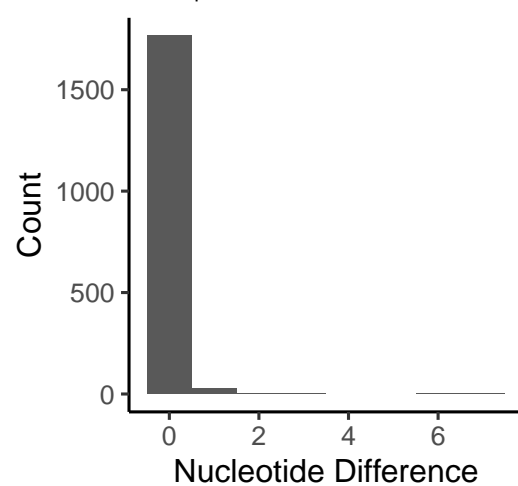
### TRBV24-1\*ap01

2105 sequences assigned  
2078 (98.7%) exact matches, in which:  
2047 unique CDR3  
13 unique J



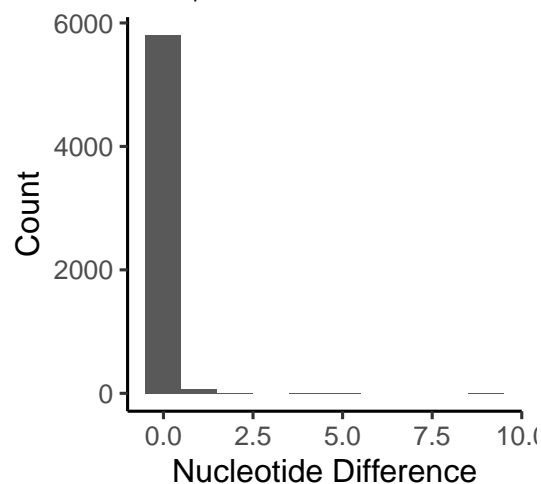
### TRBV25-1\*ap01

1796 sequences assigned  
1766 (98.3%) exact matches, in which:  
1738 unique CDR3  
13 unique J



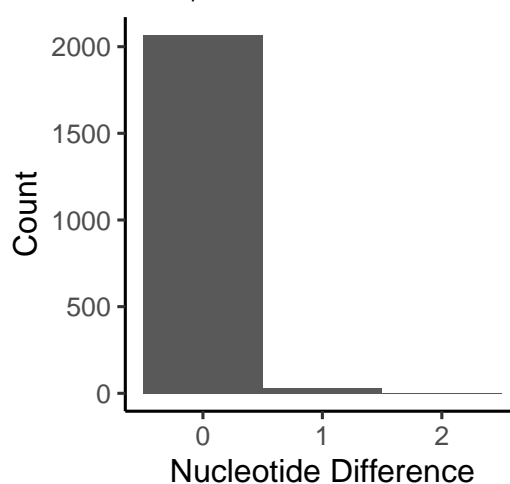
### TRBV3-12\*ap01

5883 sequences assigned  
5804 (98.7%) exact matches, in which:  
5683 unique CDR3  
13 unique J



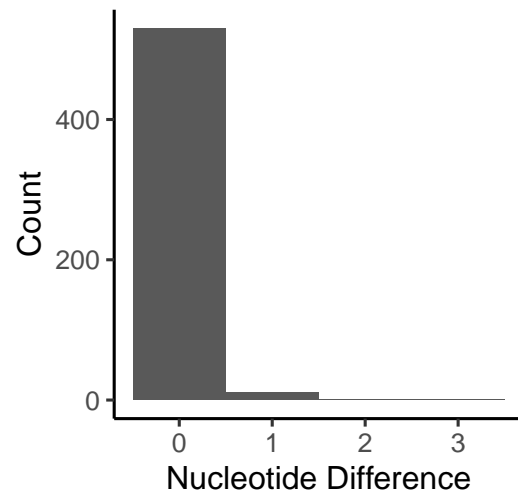
### TRBV4-2\*ap01

2100 sequences assigned  
2067 (98.4%) exact matches, in which:  
2019 unique CDR3  
13 unique J



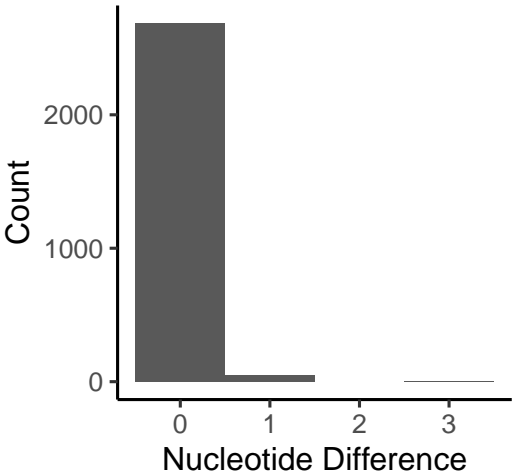
### TRBV5-3\*ap01

543 sequences assigned  
530 (97.6%) exact matches, in which:  
516 unique CDR3  
13 unique J



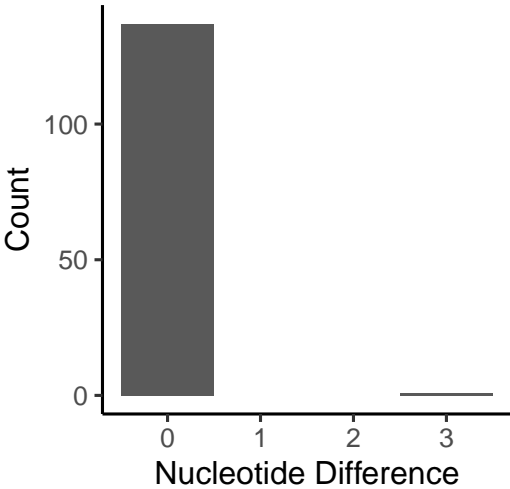
TRBV5-4\*ap01

2738 sequences assigned  
2685 (98.1%) exact matches, in which:  
2616 unique CDR3  
13 unique J



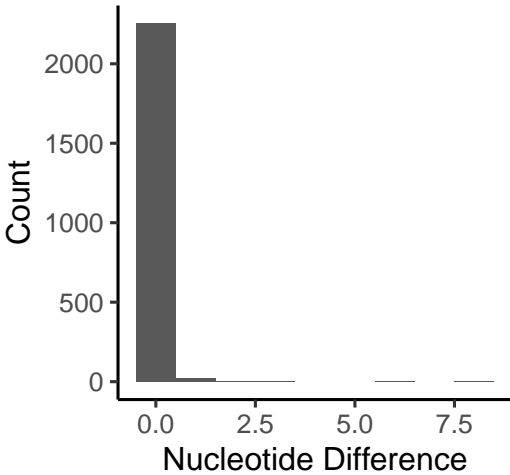
TRBV5-7\*ap01

138 sequences assigned  
137 (99.3%) exact matches, in which:  
135 unique CDR3  
13 unique J



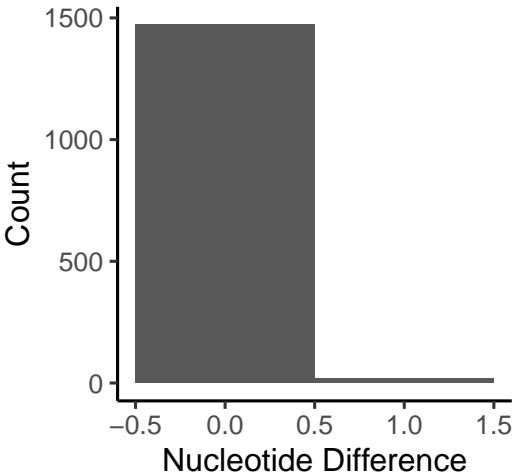
TRBV6-4\*ap01

2287 sequences assigned  
2254 (98.6%) exact matches, in which:  
2211 unique CDR3  
13 unique J



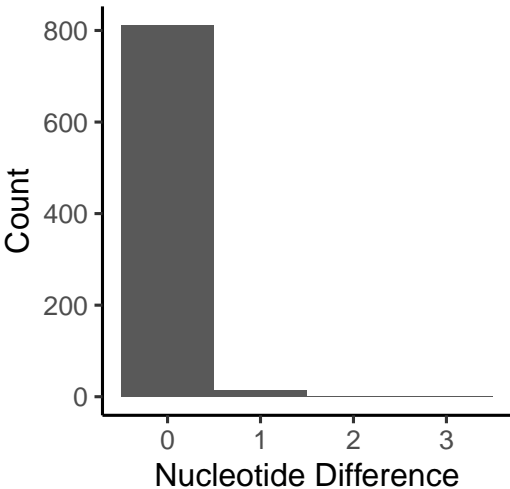
TRBV5-5\*ap01

1490 sequences assigned  
1472 (98.8%) exact matches, in which:  
1449 unique CDR3  
14 unique J



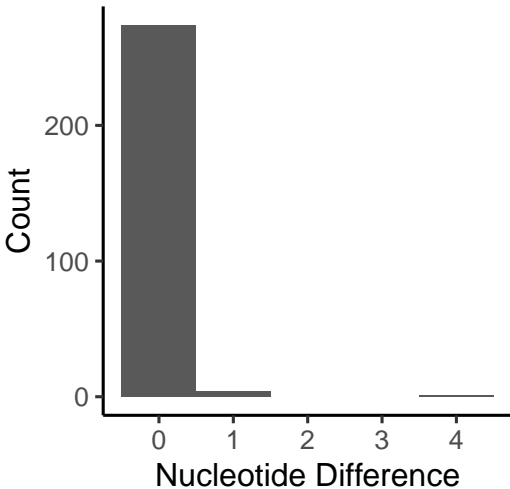
TRBV5-8\*ap01

829 sequences assigned  
812 (97.9%) exact matches, in which:  
790 unique CDR3  
13 unique J



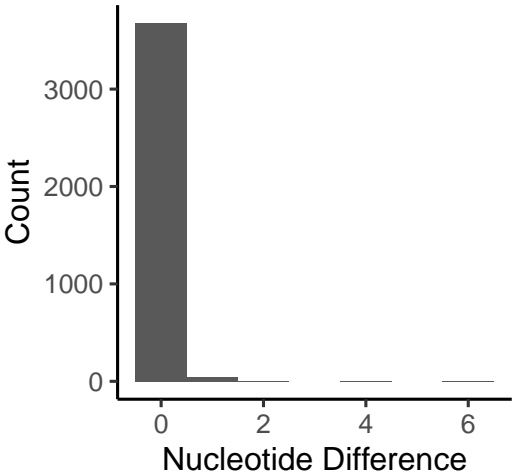
TRBV6-7\*ap01

279 sequences assigned  
274 (98.2%) exact matches, in which:  
265 unique CDR3  
12 unique J



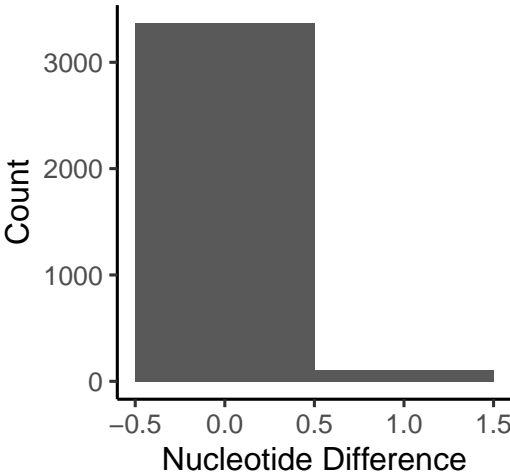
TRBV5-6\*ap01

3726 sequences assigned  
3678 (98.7%) exact matches, in which:  
3574 unique CDR3  
13 unique J



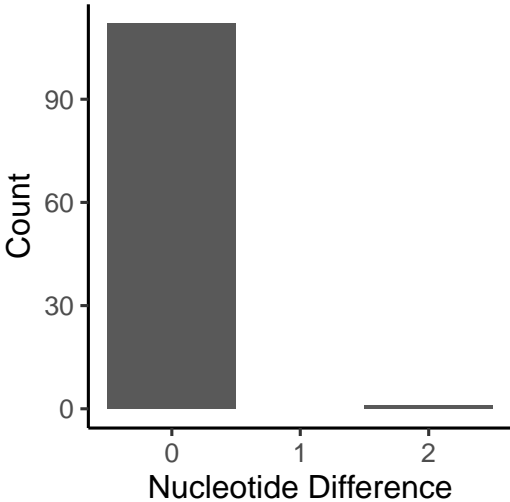
TRBV6-1\*ap01

3478 sequences assigned  
3369 (96.9%) exact matches, in which:  
3312 unique CDR3  
13 unique J



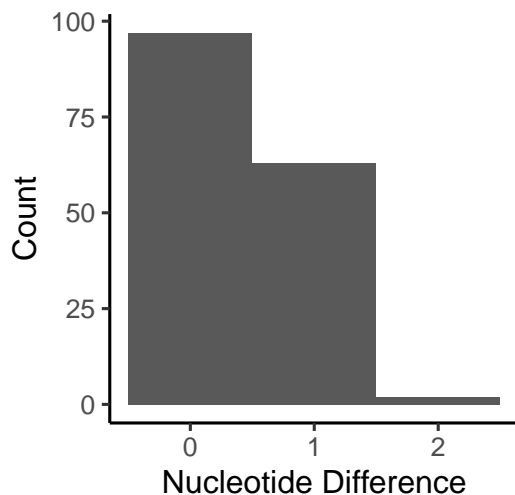
TRBV6-8\*ap01

113 sequences assigned  
112 (99.1%) exact matches, in which:  
110 unique CDR3  
13 unique J



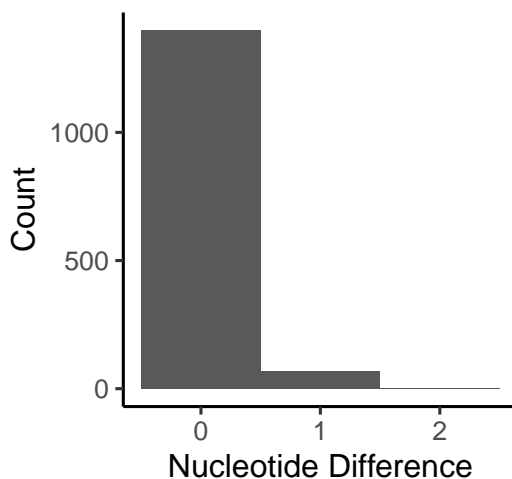
### TRBV6-9\*ap01

162 sequences assigned  
97 (59.9%) exact matches, in which:  
93 unique CDR3  
13 unique J



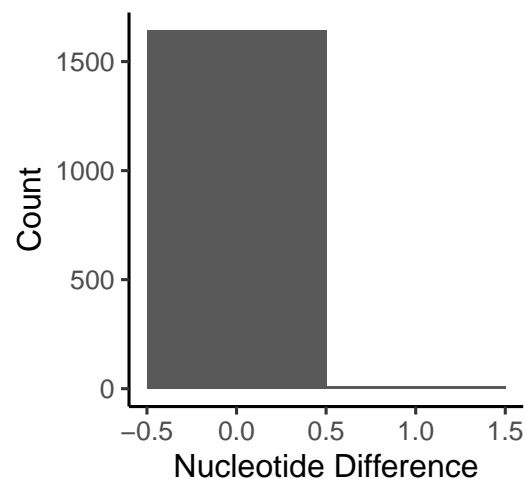
### TRBV6-56\*ap02

1469 sequences assigned  
1398 (95.2%) exact matches, in which:  
1363 unique CDR3  
13 unique J



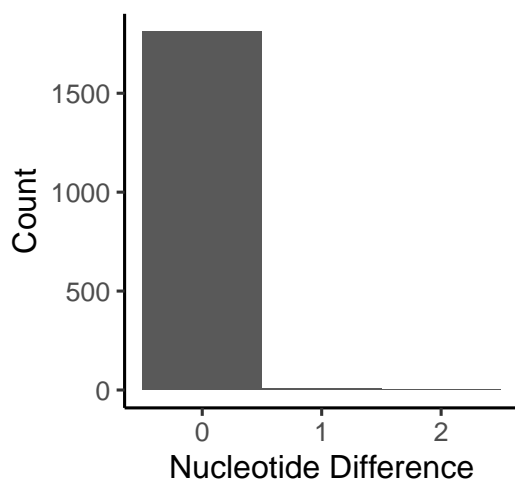
### TRBV7-2\*ap01\_G297A

1655 sequences assigned  
1643 (99.3%) exact matches, in which:  
1606 unique CDR3  
13 unique J



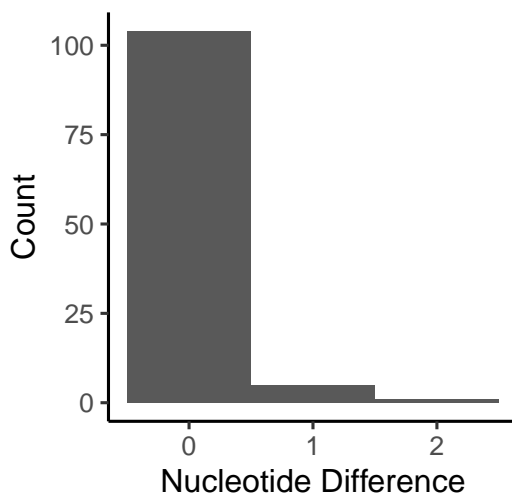
### TRBV6-23\*ap01

1823 sequences assigned  
1811 (99.3%) exact matches, in which:  
1785 unique CDR3  
13 unique J



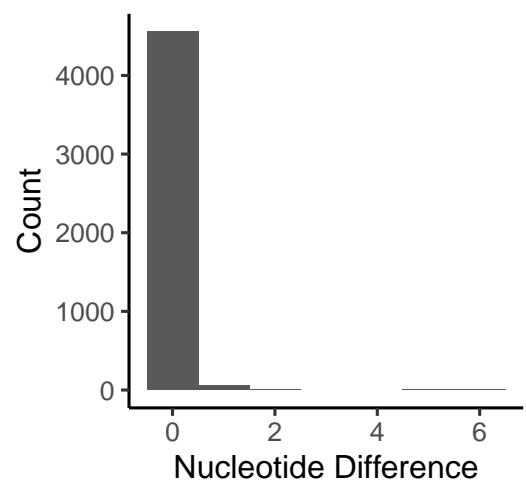
### TRBV7-1\*ap01\_G291C\_

110 sequences assigned  
104 (94.5%) exact matches, in which:  
104 unique CDR3  
12 unique J



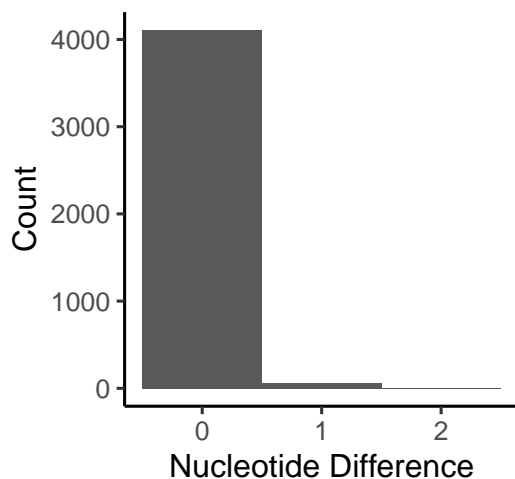
### TRBV7-3\*ap01

4613 sequences assigned  
4556 (98.8%) exact matches, in which:  
4469 unique CDR3  
13 unique J



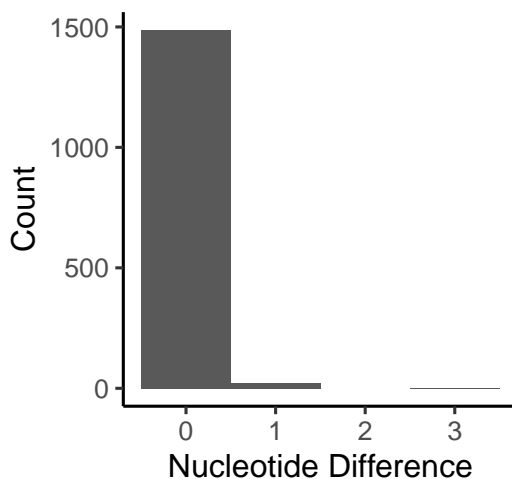
### TRBV6-56\*ap01

4170 sequences assigned  
4108 (98.5%) exact matches, in which:  
4011 unique CDR3  
13 unique J



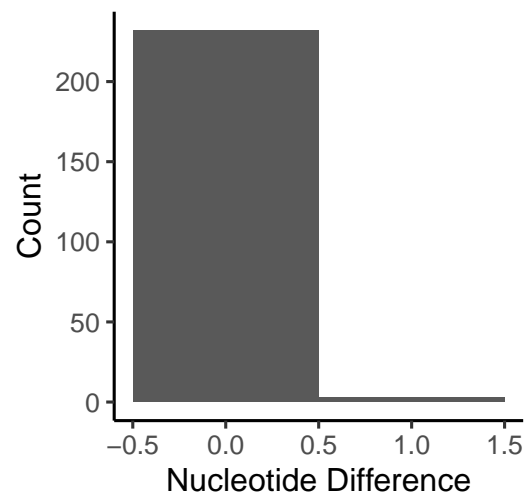
### TRBV7-2\*ap01

1510 sequences assigned  
1487 (98.5%) exact matches, in which:  
1454 unique CDR3  
13 unique J



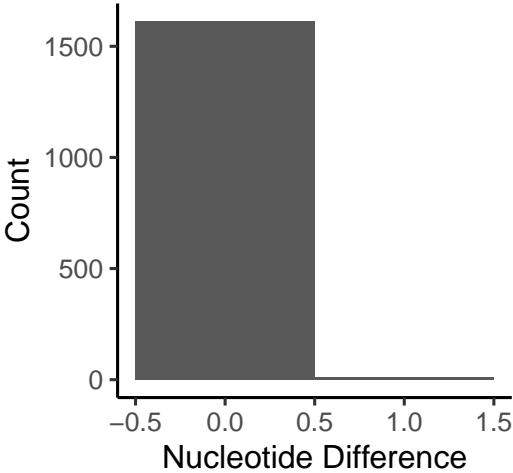
### TRBV7-4\*ap01

235 sequences assigned  
232 (98.7%) exact matches, in which:  
227 unique CDR3  
13 unique J



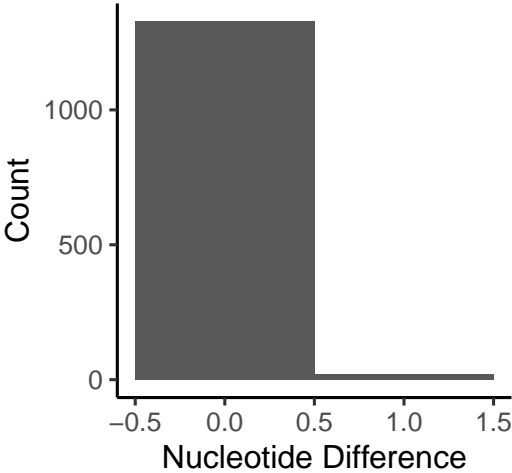
TRBV7-6\*ap01

1625 sequences assigned  
1612 (99.2%) exact matches, in which:  
1573 unique CDR3  
13 unique J



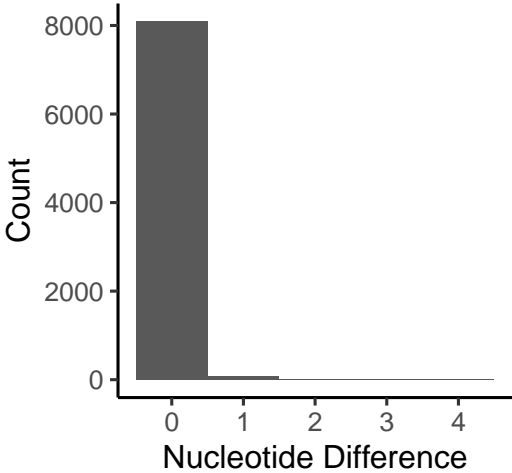
TRBV7-8\*ap01

1349 sequences assigned  
1328 (98.4%) exact matches, in which:  
1298 unique CDR3  
13 unique J



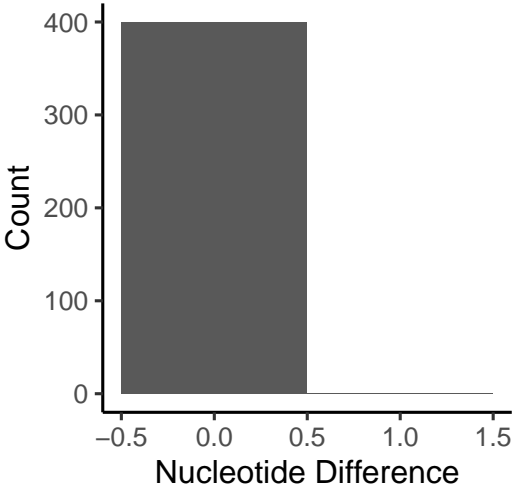
TRBV7-9\*ap01

8182 sequences assigned  
8092 (98.9%) exact matches, in which:  
7953 unique CDR3  
13 unique J



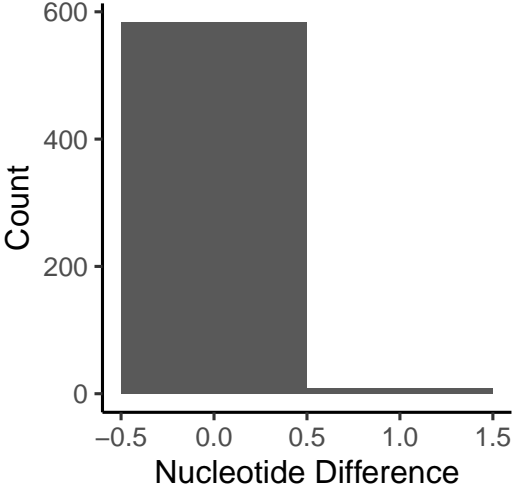
TRBV7-7\*ap01

401 sequences assigned  
400 (99.8%) exact matches, in which:  
391 unique CDR3  
13 unique J



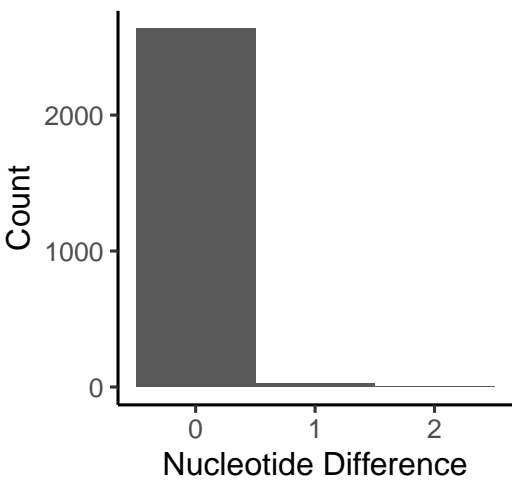
TRBV7-8\*ap03

592 sequences assigned  
584 (98.6%) exact matches, in which:  
572 unique CDR3  
13 unique J



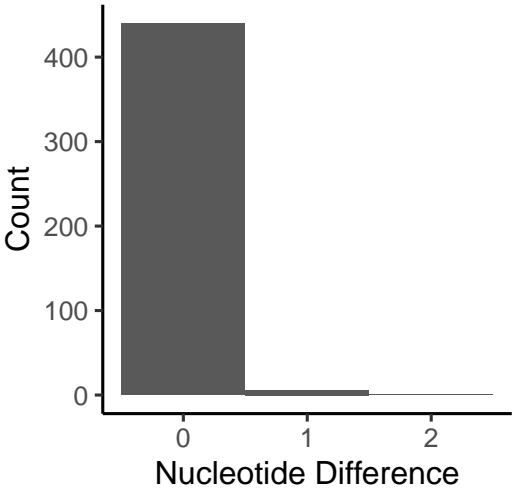
TRBV29-1\*ap01

2662 sequences assigned  
2635 (99%) exact matches, in which:  
2593 unique CDR3  
13 unique J



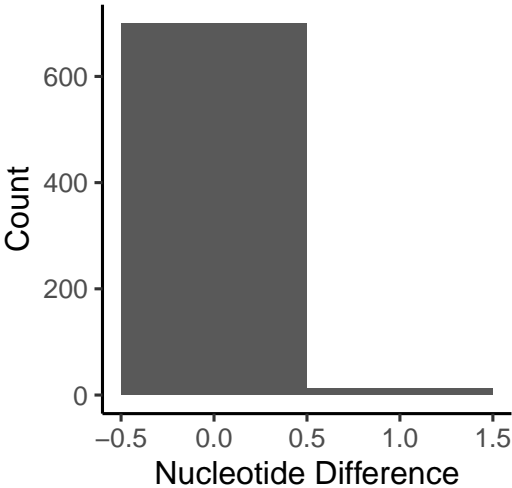
TRBV7-7\*ap01\_C315T

447 sequences assigned  
440 (98.4%) exact matches, in which:  
434 unique CDR3  
13 unique J



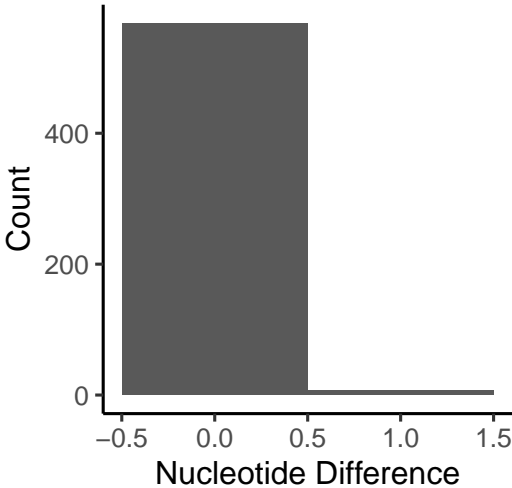
TRBV7-8\*ap03\_C297A

712 sequences assigned  
700 (98.3%) exact matches, in which:  
690 unique CDR3  
13 unique J

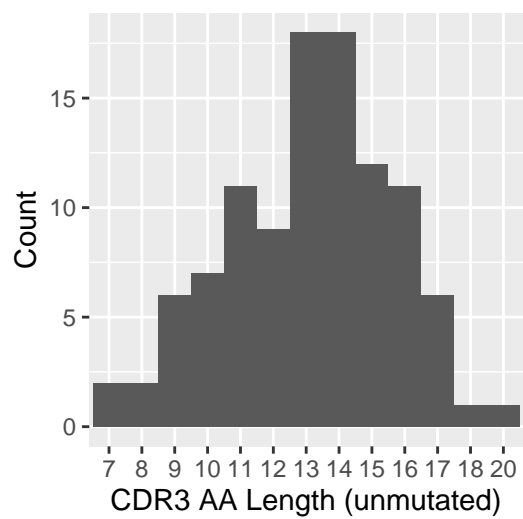


TRBV29-1\*ap02

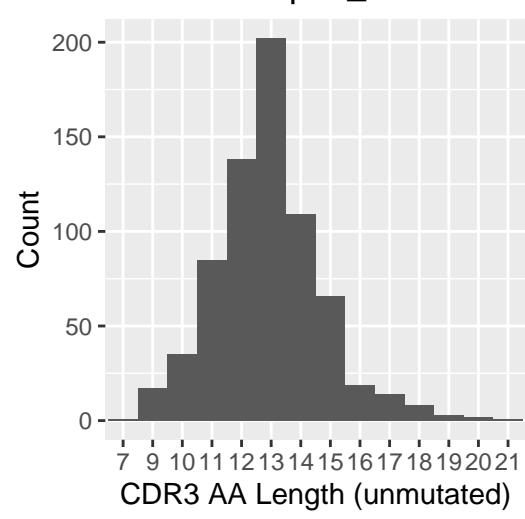
575 sequences assigned  
568 (98.8%) exact matches, in which:  
561 unique CDR3  
13 unique J



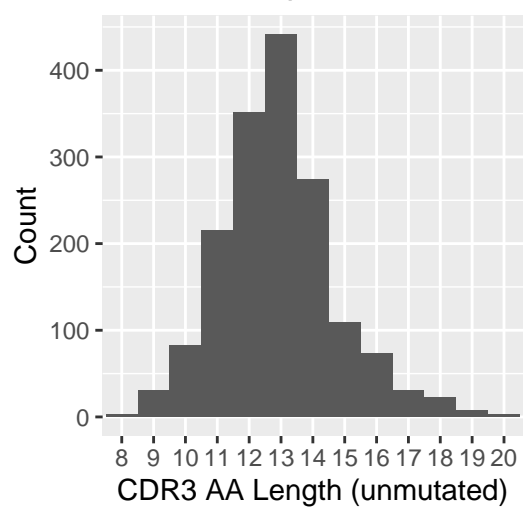
TRBV7-1\*ap01\_G291C\_T29



TRBV7-8\*ap03\_C297A



TRBV7-2\*ap01\_G297A



TRBV7-7\*ap01\_C315T

