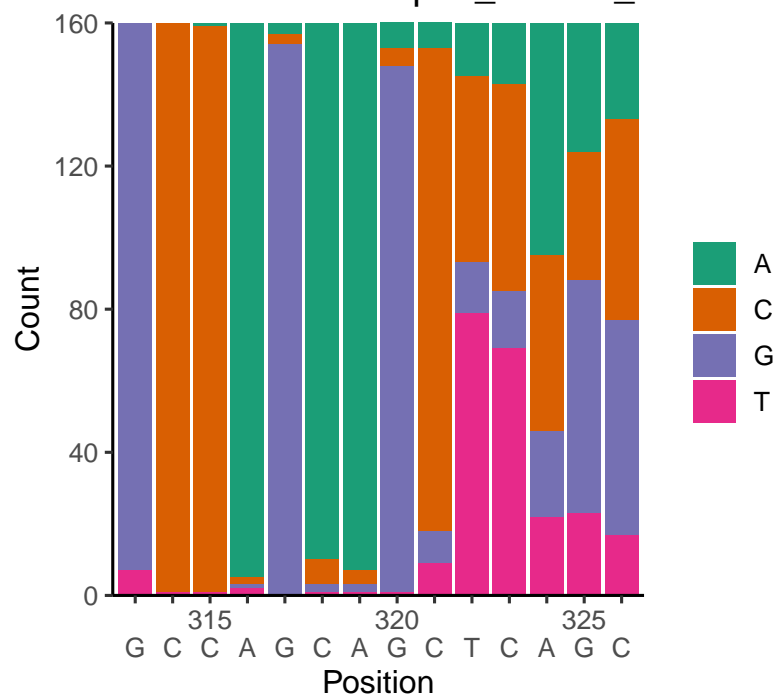
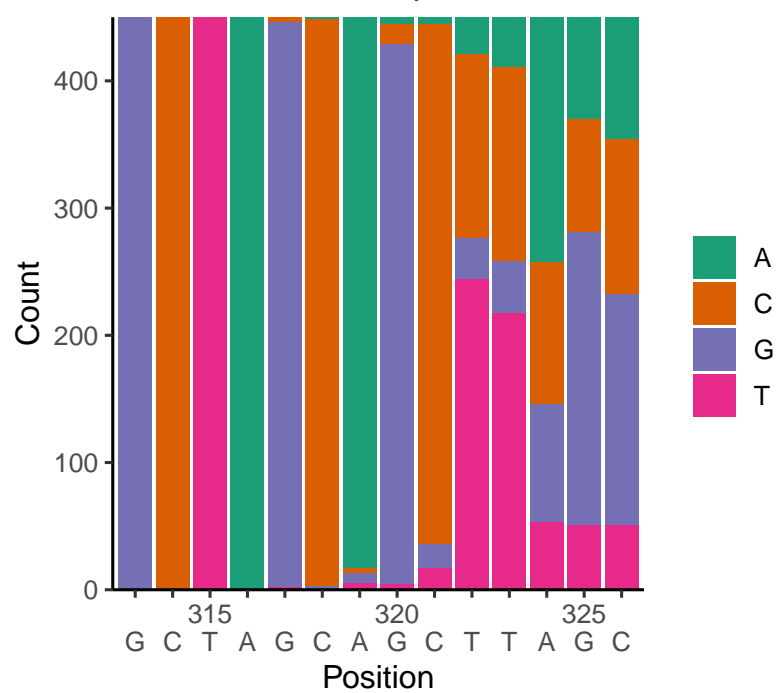


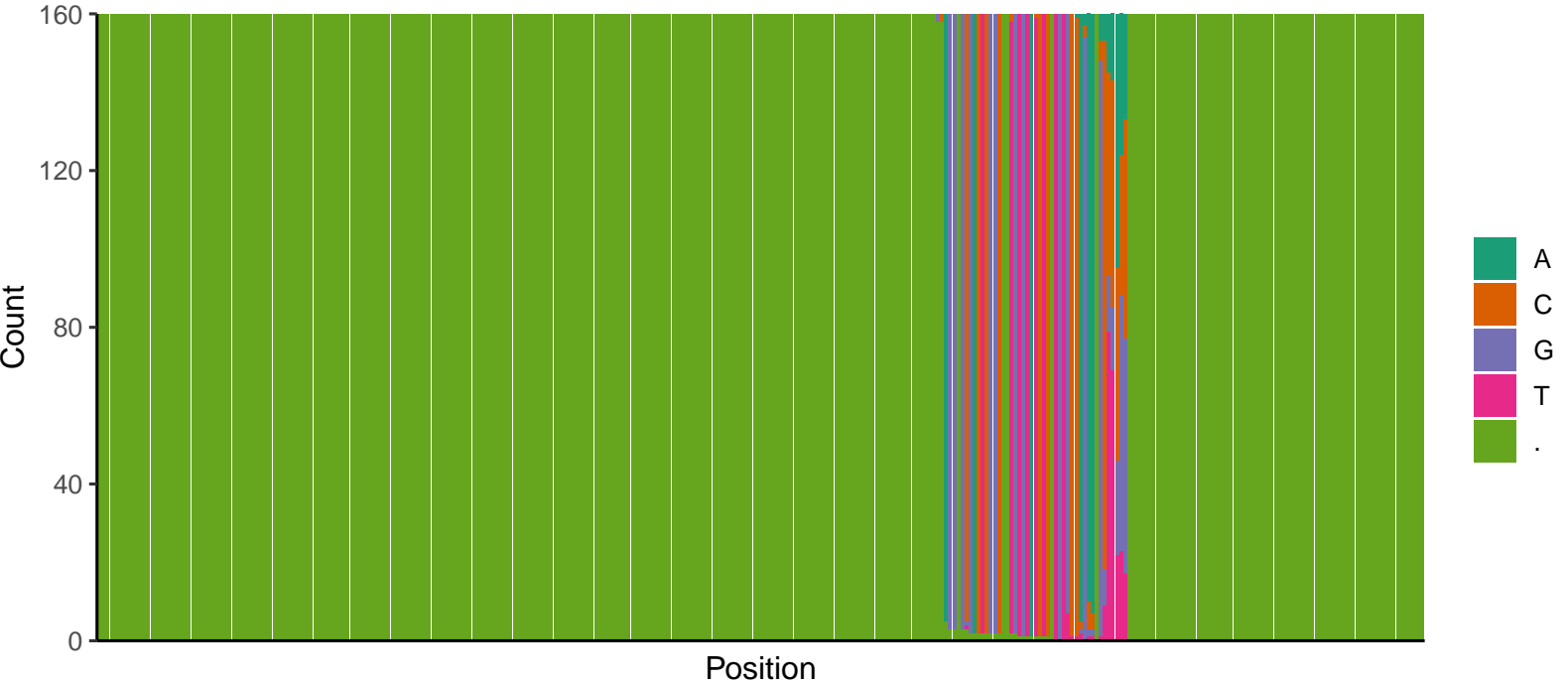
Gene TRBV7-1\*ap01\_G291C\_T296C



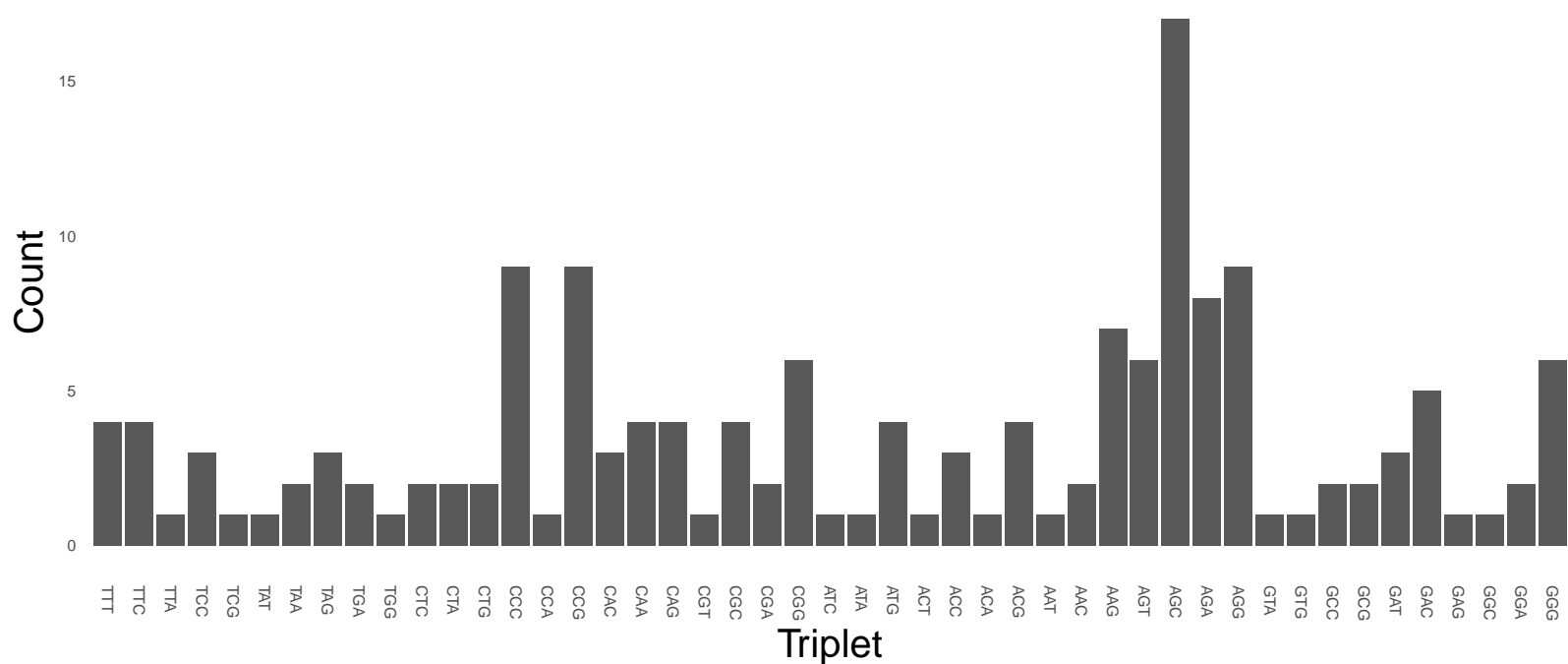
Gene TRBV7-7\*ap01\_C315T



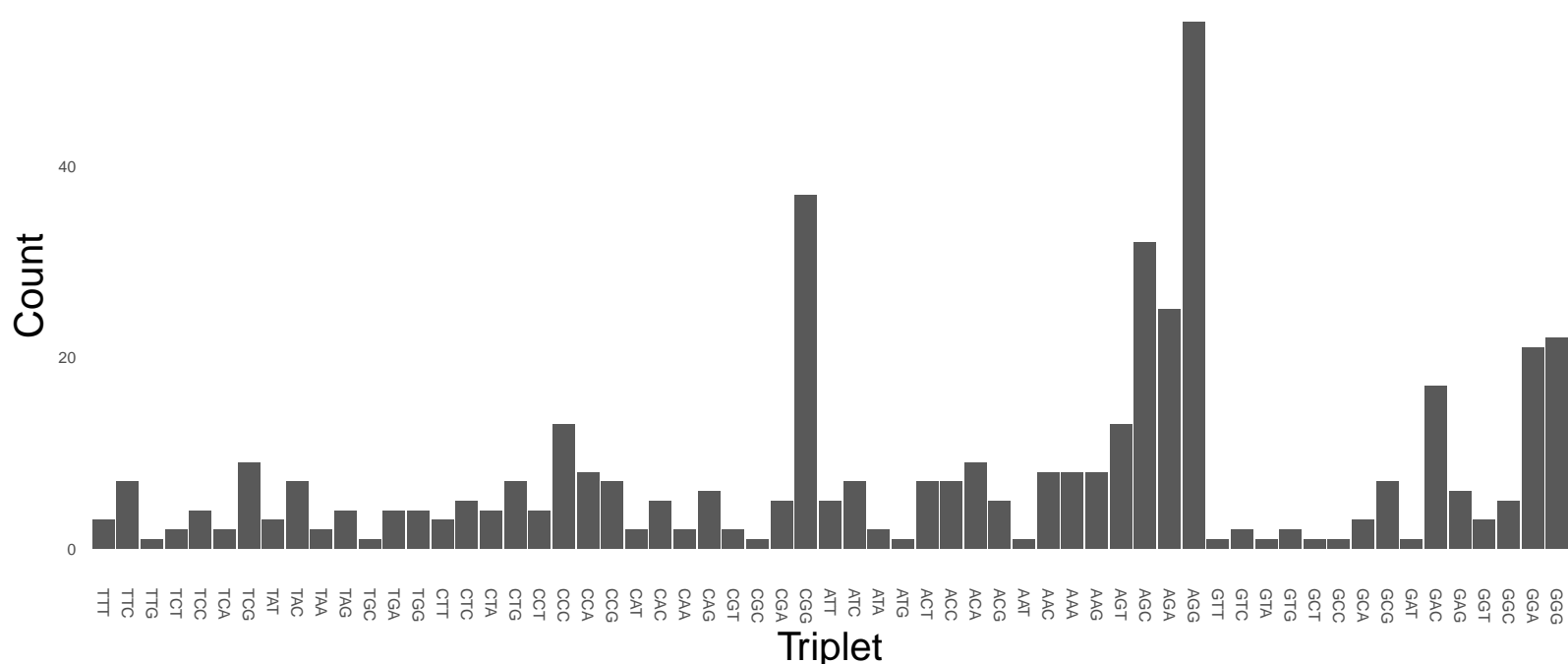
Gene TRBV7-1\*ap01\_G291C\_T296C



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

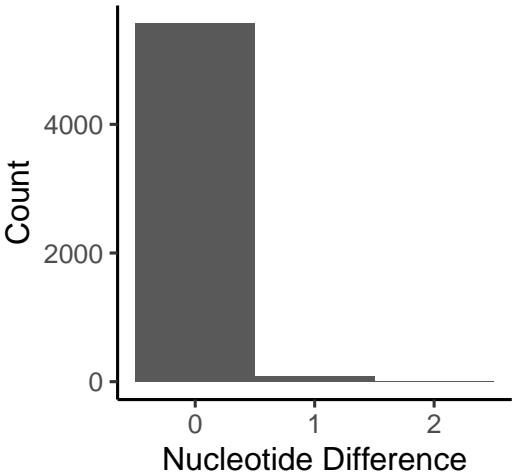


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



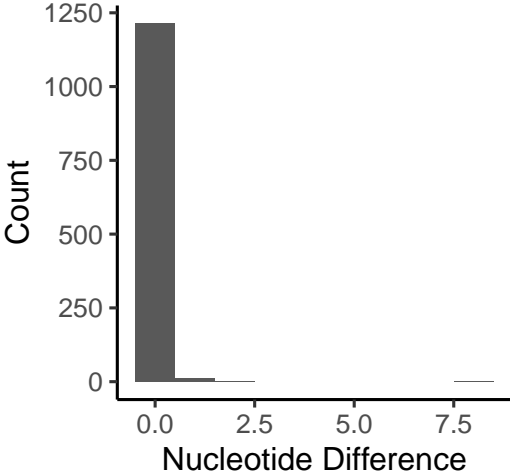
TRBV20-1\*ap01

5654 sequences assigned  
5569 (98.5%) exact matches, in which:  
5477 unique CDR3  
13 unique J



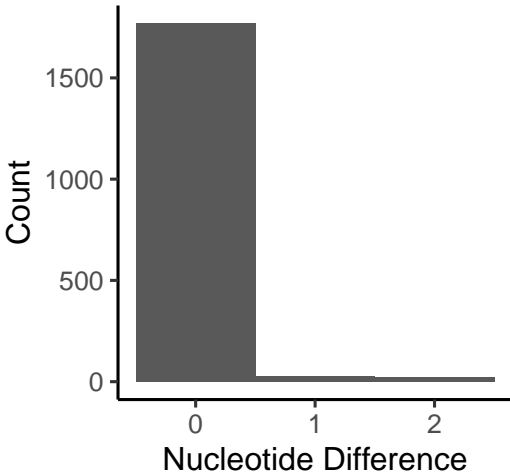
TRBV10-2\*ap01

1228 sequences assigned  
1214 (98.9%) exact matches, in which:  
1179 unique CDR3  
13 unique J



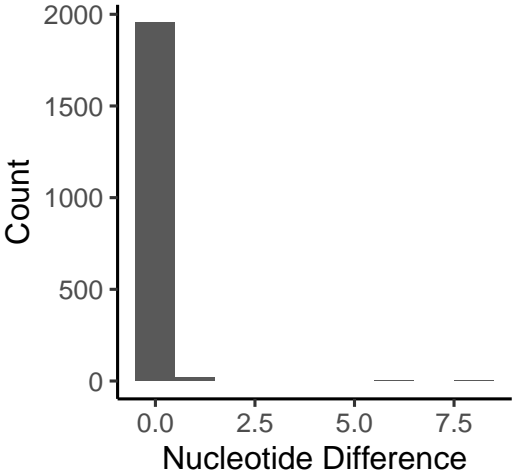
TRBV13\*ap01

1816 sequences assigned  
1769 (97.4%) exact matches, in which:  
1726 unique CDR3  
13 unique J



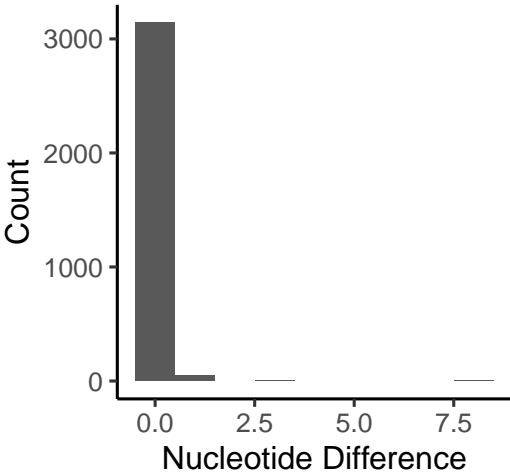
TRBV10-1\*ap01

1975 sequences assigned  
1954 (98.9%) exact matches, in which:  
1907 unique CDR3  
13 unique J



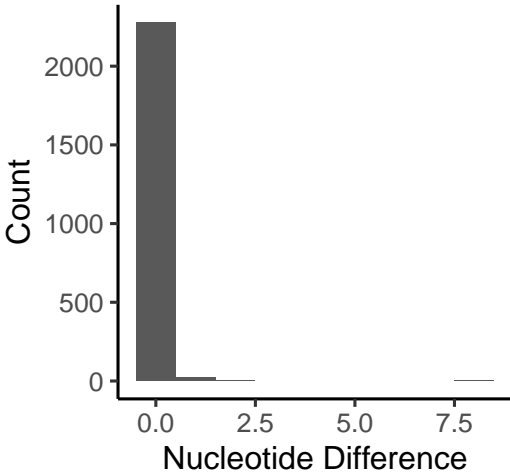
TRBV10-3\*ap01

3188 sequences assigned  
3142 (98.6%) exact matches, in which:  
3078 unique CDR3  
13 unique J



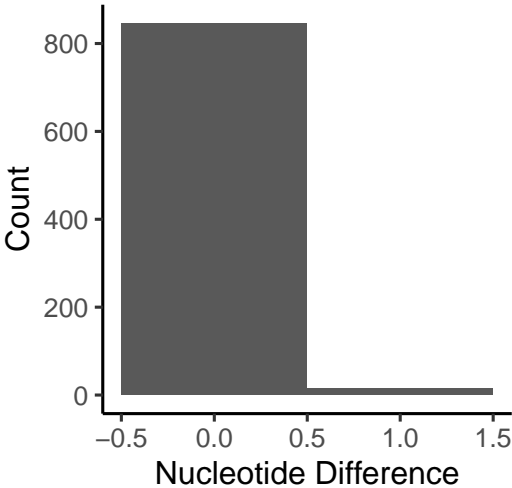
TRBV14\*ap01

2302 sequences assigned  
2276 (98.9%) exact matches, in which:  
2225 unique CDR3  
13 unique J



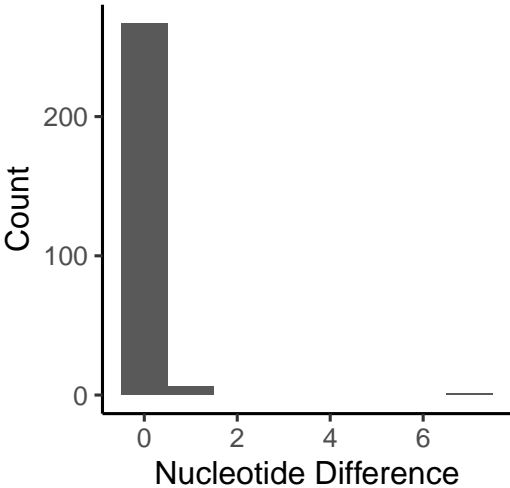
TRBV20-1\*ap02

860 sequences assigned  
846 (98.4%) exact matches, in which:  
832 unique CDR3  
13 unique J



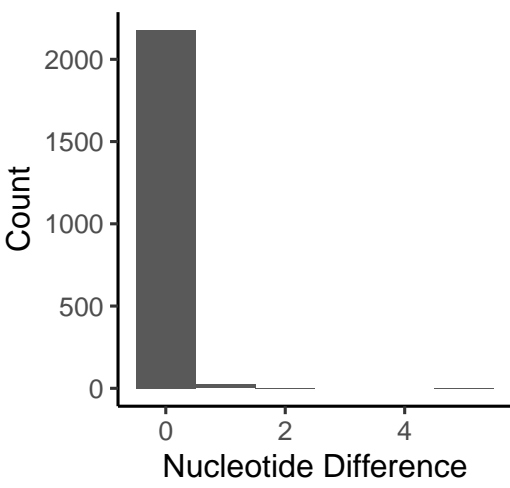
TRBV1\*ap01

274 sequences assigned  
267 (97.4%) exact matches, in which:  
263 unique CDR3  
13 unique J



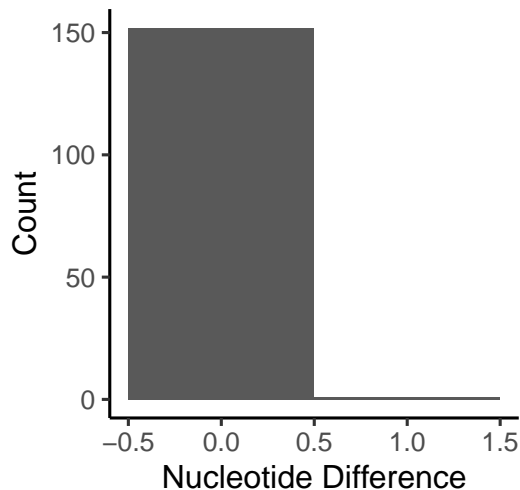
TRBV15\*ap02

2203 sequences assigned  
2178 (98.9%) exact matches, in which:  
2130 unique CDR3  
13 unique J



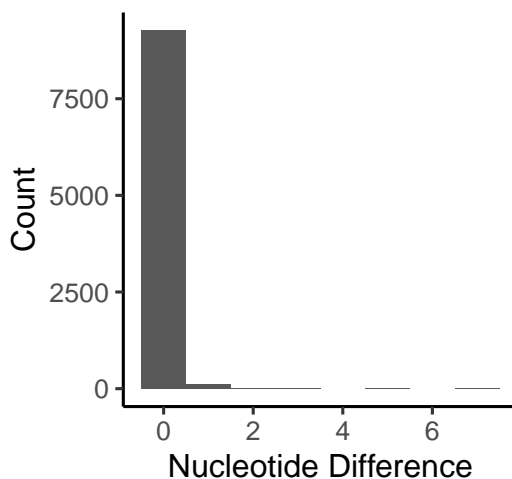
### TRBV16\*ap01

153 sequences assigned  
152 (99.3%) exact matches, in which:  
152 unique CDR3  
13 unique J



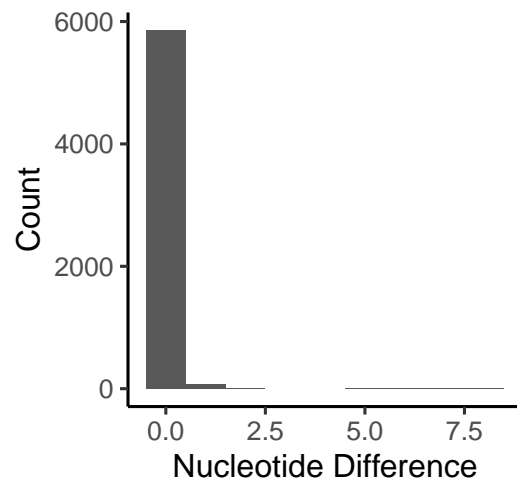
### TRBV19\*ap01

9387 sequences assigned  
9266 (98.7%) exact matches, in which:  
9114 unique CDR3  
13 unique J



### TRBV27\*ap01

5942 sequences assigned  
5855 (98.5%) exact matches, in which:  
5721 unique CDR3  
13 unique J



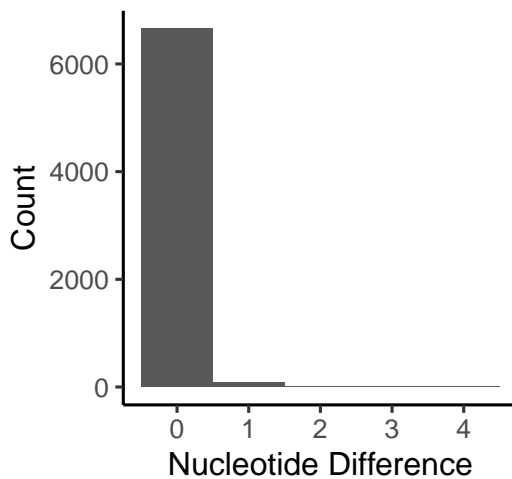
### TRBV17\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



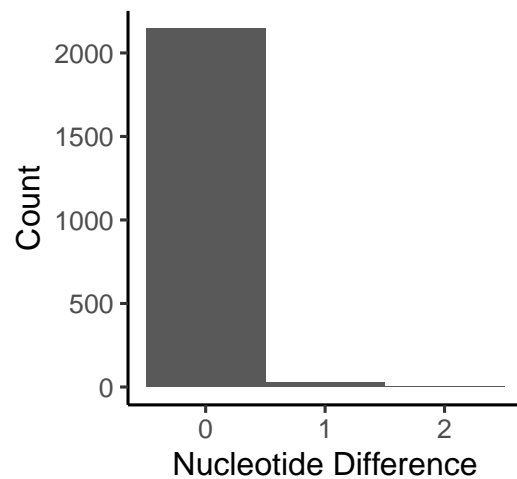
### TRBV2\*ap01

6740 sequences assigned  
6654 (98.7%) exact matches, in which:  
6521 unique CDR3  
13 unique J



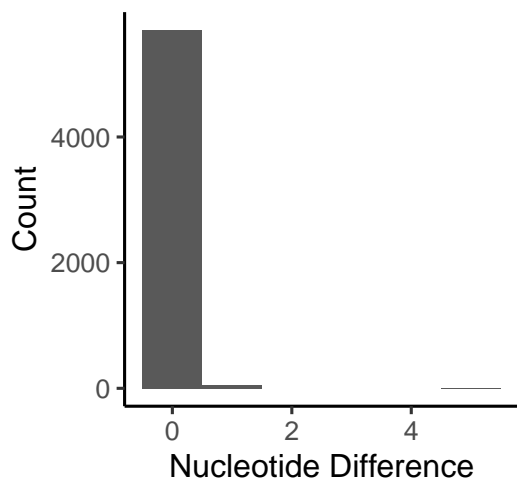
### TRBV28\*ap01

2171 sequences assigned  
2145 (98.8%) exact matches, in which:  
2108 unique CDR3  
13 unique J



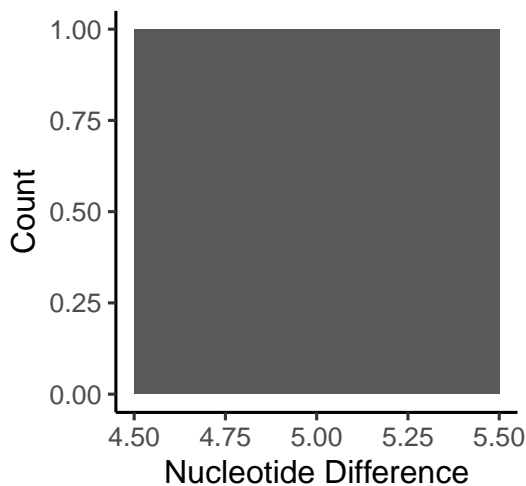
### TRBV18\*ap01

5751 sequences assigned  
5702 (99.1%) exact matches, in which:  
5624 unique CDR3  
13 unique J



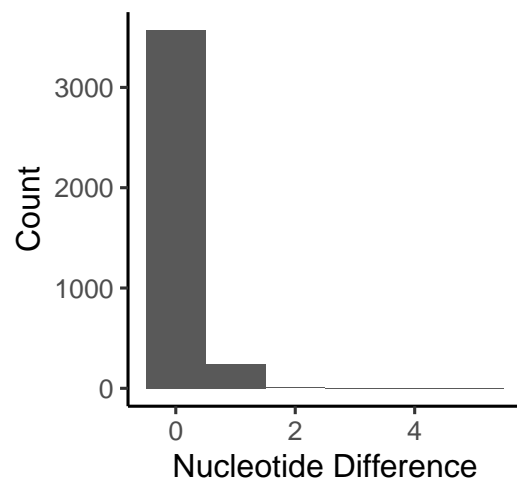
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



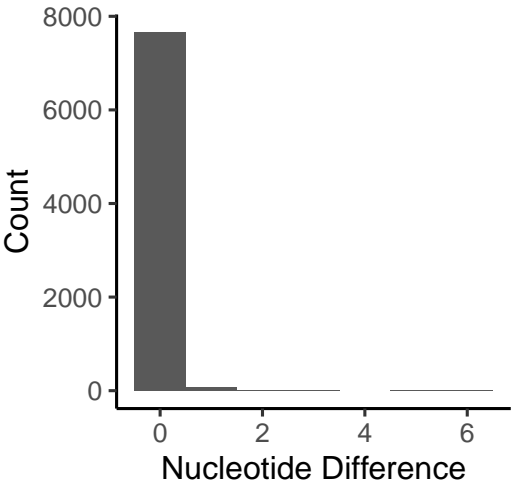
### TRBV30\*ap01

3827 sequences assigned  
3572 (93.3%) exact matches, in which:  
3524 unique CDR3  
13 unique J



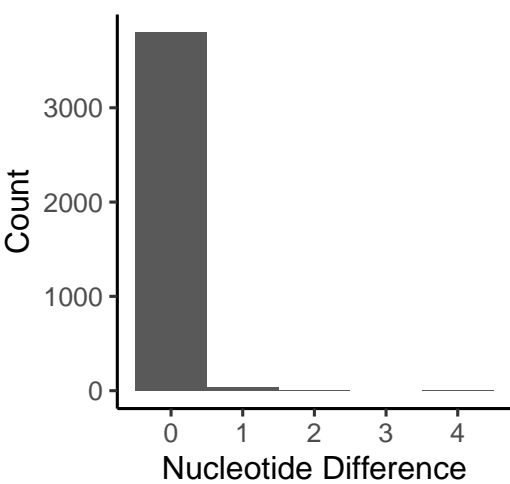
TRBV9\*ap01

7734 sequences assigned  
7656 (99%) exact matches, in which:  
7503 unique CDR3  
13 unique J



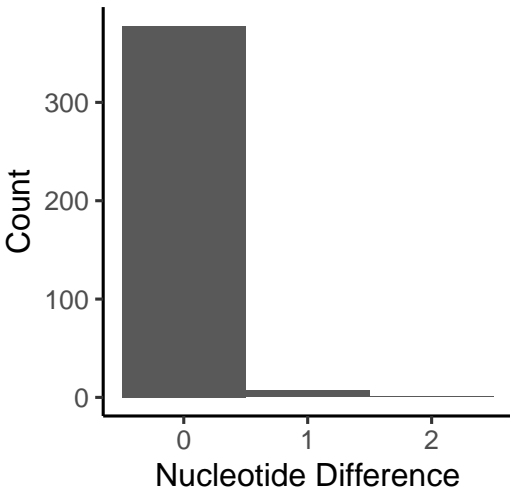
TRBV11-2\*ap01

3842 sequences assigned  
3799 (98.9%) exact matches, in which:  
3741 unique CDR3  
13 unique J



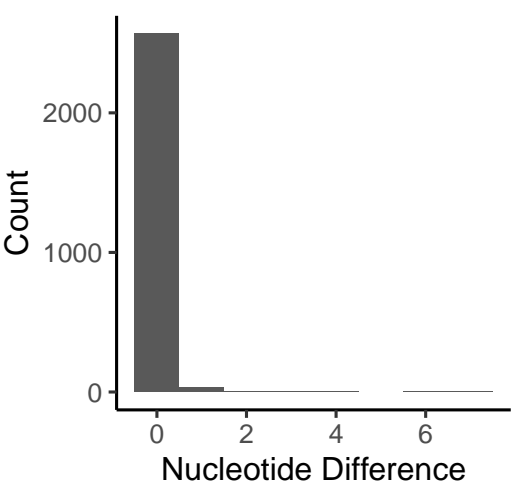
TRBV12-2\*ap01

386 sequences assigned  
378 (97.9%) exact matches, in which:  
372 unique CDR3  
13 unique J



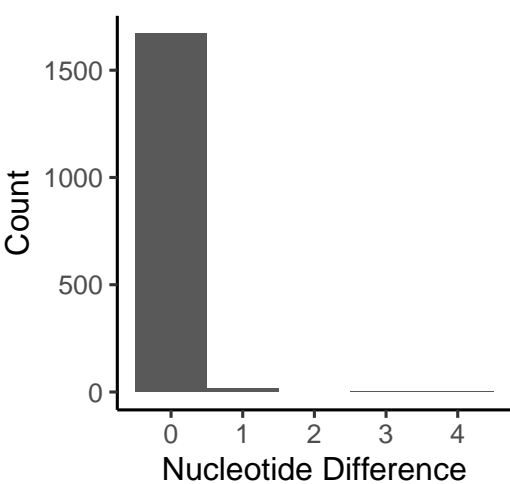
TRBV21-1\*ap01

2615 sequences assigned  
2567 (98.2%) exact matches, in which:  
2534 unique CDR3  
13 unique J



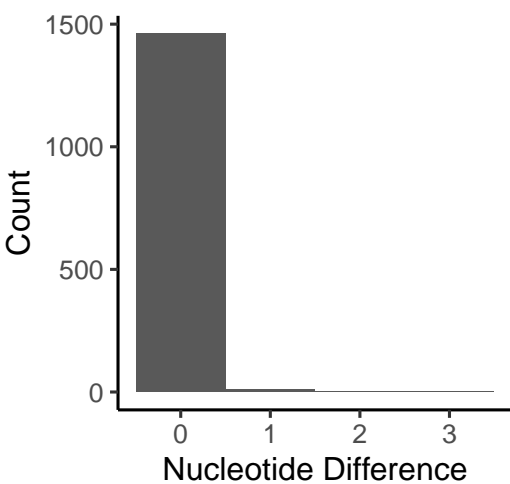
TRBV11-3\*ap01

1687 sequences assigned  
1670 (99%) exact matches, in which:  
1648 unique CDR3  
13 unique J



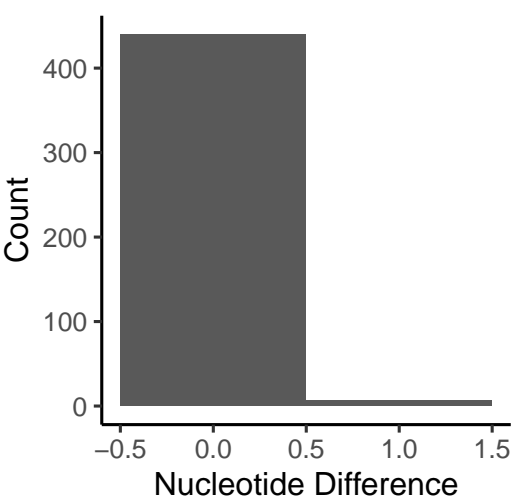
TRBV12-5\*ap01

1478 sequences assigned  
1461 (98.8%) exact matches, in which:  
1422 unique CDR3  
13 unique J



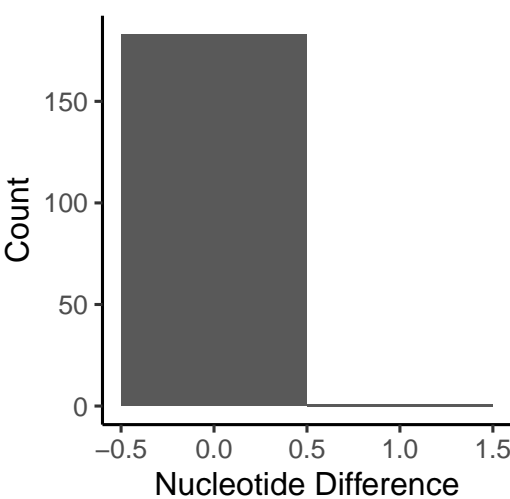
TRBV11-1\*ap01

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



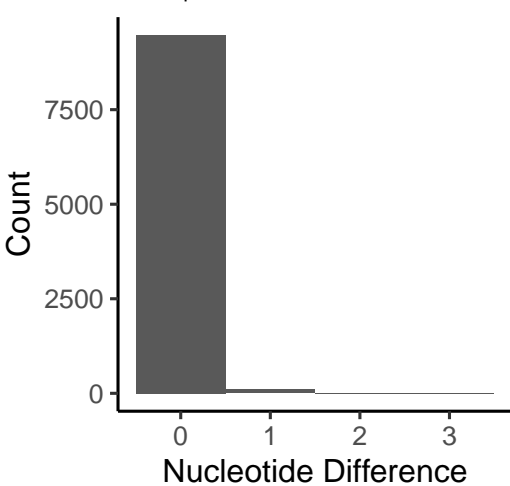
TRBV12-1\*ap01

184 sequences assigned  
183 (99.5%) exact matches, in which:  
181 unique CDR3  
13 unique J



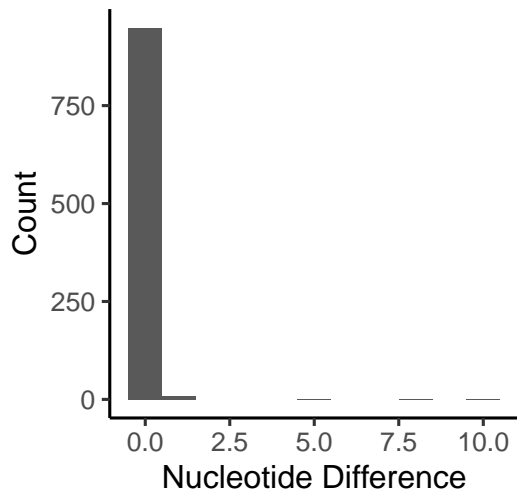
TRBV12-34\*ap01

9583 sequences assigned  
9473 (98.9%) exact matches, in which:  
9285 unique CDR3  
13 unique J



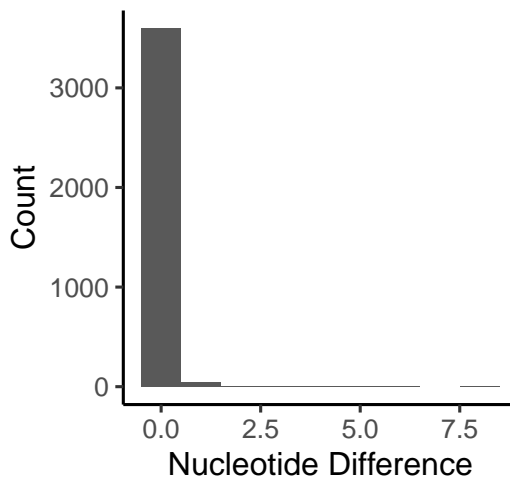
### TRBV23-1\*ap01

961 sequences assigned  
949 (98.8%) exact matches, in which:  
935 unique CDR3  
13 unique J



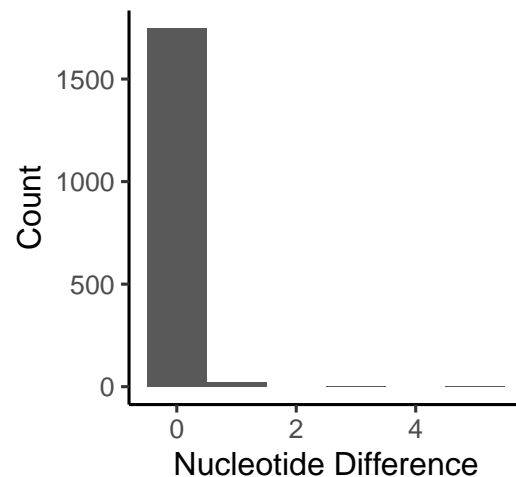
### TRBV24-1\*ap01

3654 sequences assigned  
3597 (98.4%) exact matches, in which:  
3536 unique CDR3  
13 unique J



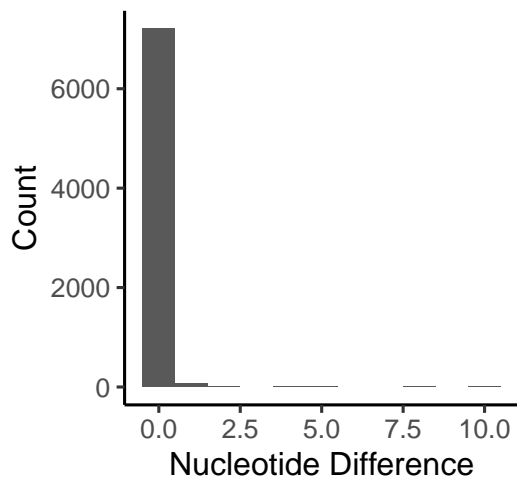
### TRBV25-1\*ap01

1771 sequences assigned  
1747 (98.6%) exact matches, in which:  
1716 unique CDR3  
13 unique J



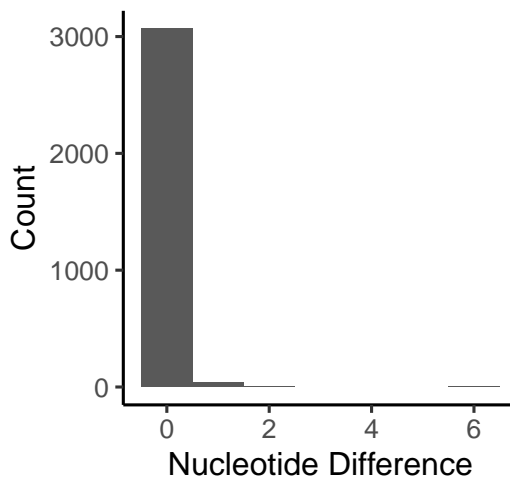
### TRBV3-12\*ap01

7292 sequences assigned  
7207 (98.8%) exact matches, in which:  
7108 unique CDR3  
13 unique J



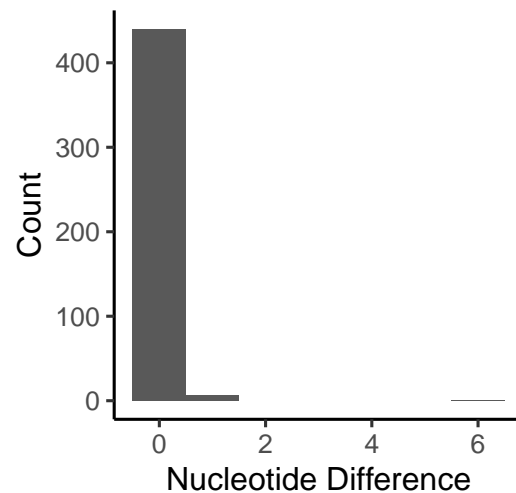
### TRBV4-2\*ap01

3111 sequences assigned  
3067 (98.6%) exact matches, in which:  
3019 unique CDR3  
13 unique J



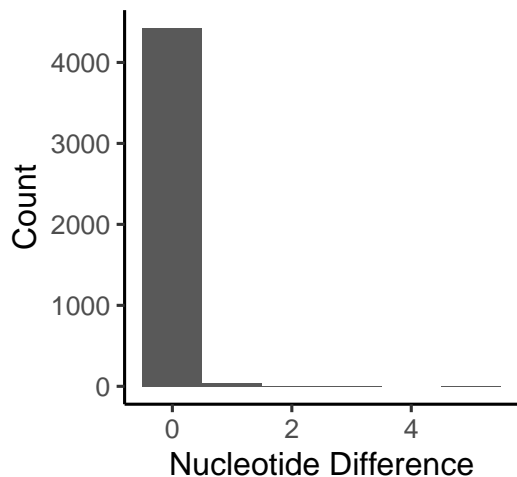
### TRBV5-3\*ap01

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



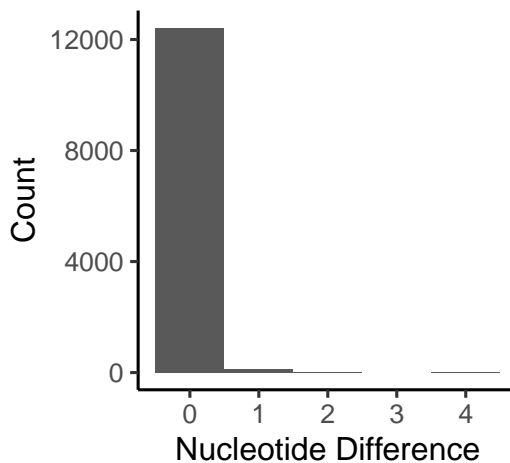
### TRBV4-1\*ap01

4472 sequences assigned  
4425 (98.9%) exact matches, in which:  
4335 unique CDR3  
13 unique J



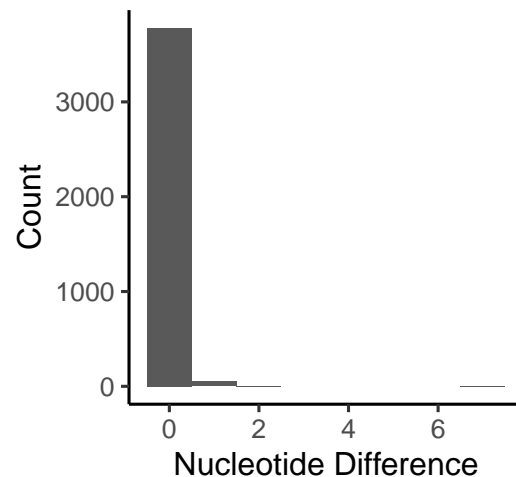
### TRBV5-1\*ap01

12559 sequences assigned  
12422 (98.9%) exact matches, in which:  
12133 unique CDR3  
13 unique J



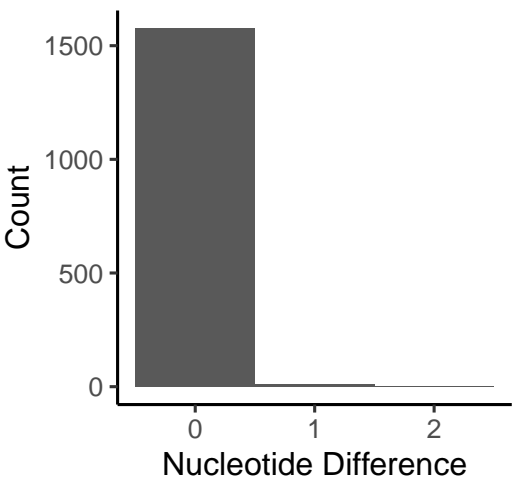
### TRBV5-4\*ap01

3832 sequences assigned  
3779 (98.6%) exact matches, in which:  
3692 unique CDR3  
13 unique J



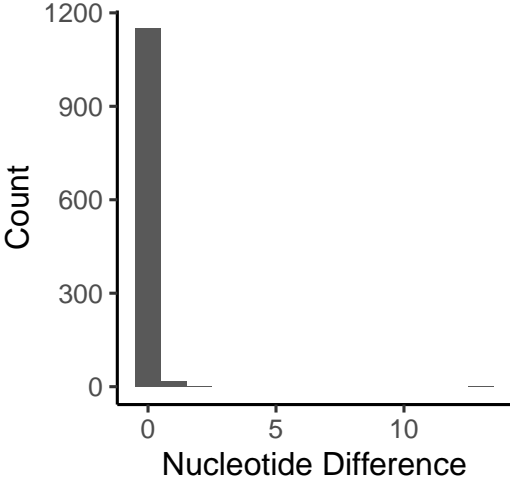
TRBV5-5\*ap01

1590 sequences assigned  
1576 (99.1%) exact matches, in which:  
1555 unique CDR3  
13 unique J



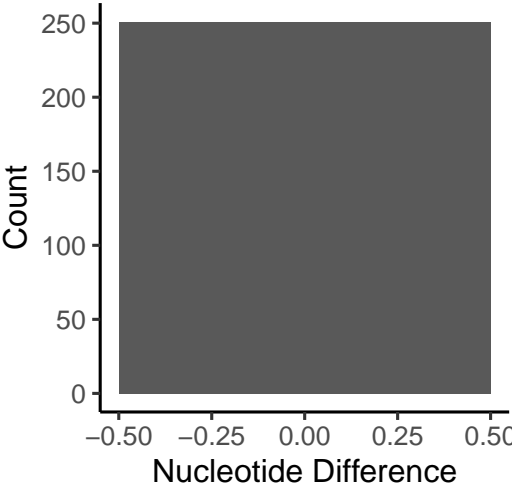
TRBV5-8\*ap01

1172 sequences assigned  
1150 (98.1%) exact matches, in which:  
1129 unique CDR3  
13 unique J



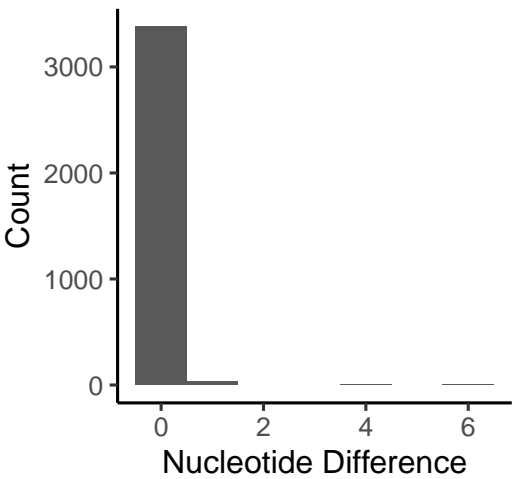
TRBV6-7\*ap01

251 sequences assigned  
251 (100%) exact matches, in which:  
240 unique CDR3  
13 unique J



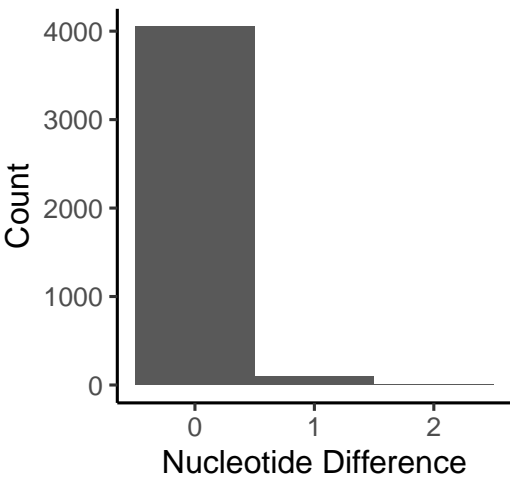
TRBV5-6\*ap01

3414 sequences assigned  
3379 (99%) exact matches, in which:  
3286 unique CDR3  
13 unique J



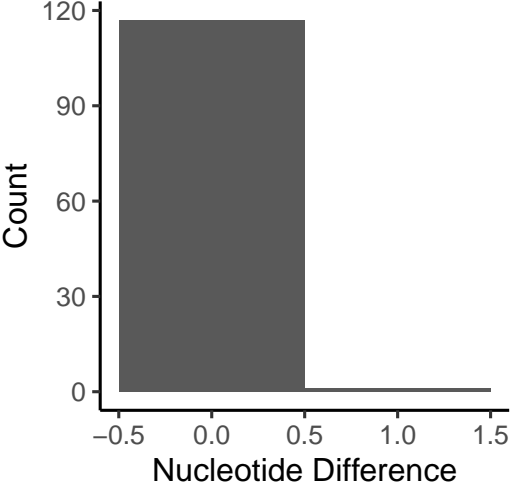
TRBV6-1\*ap01

4151 sequences assigned  
4050 (97.6%) exact matches, in which:  
3959 unique CDR3  
13 unique J



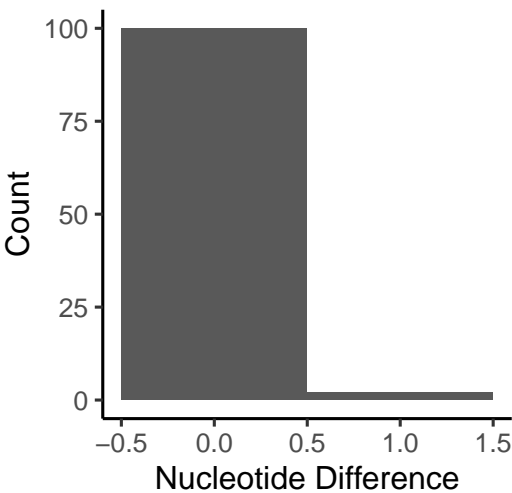
TRBV6-8\*ap01

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



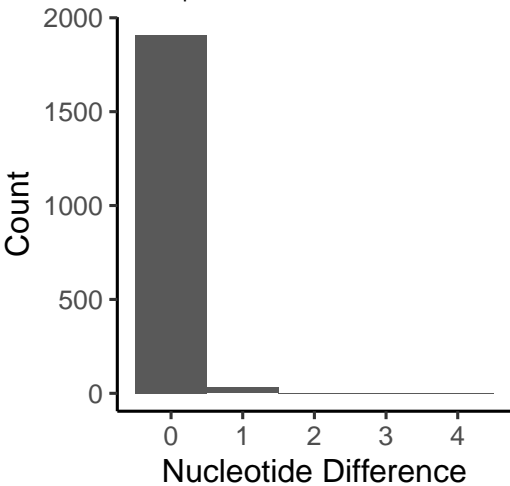
TRBV5-7\*ap01

102 sequences assigned  
100 (98%) exact matches, in which:  
99 unique CDR3  
12 unique J



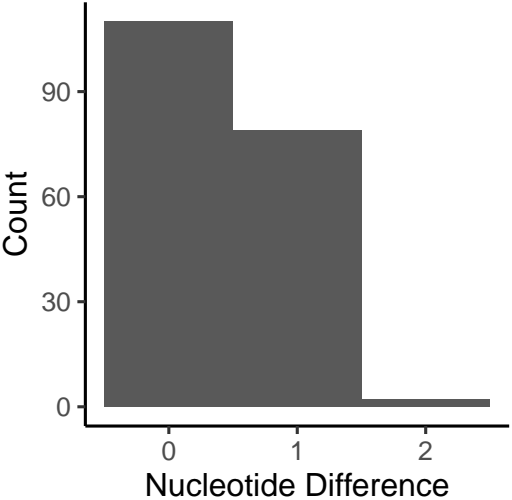
TRBV6-4\*ap01

1943 sequences assigned  
1908 (98.2%) exact matches, in which:  
1884 unique CDR3  
13 unique J



TRBV6-9\*ap01

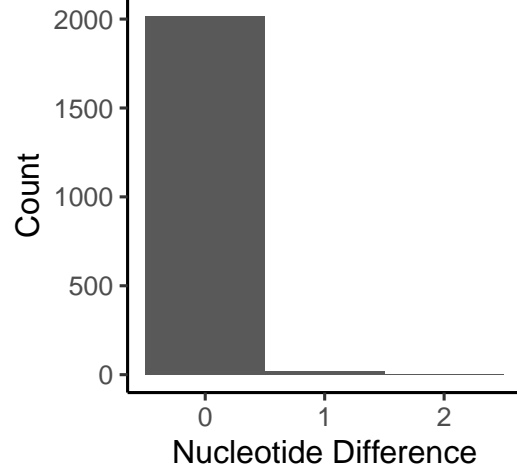
191 sequences assigned  
110 (57.6%) exact matches, in which:  
110 unique CDR3  
12 unique J





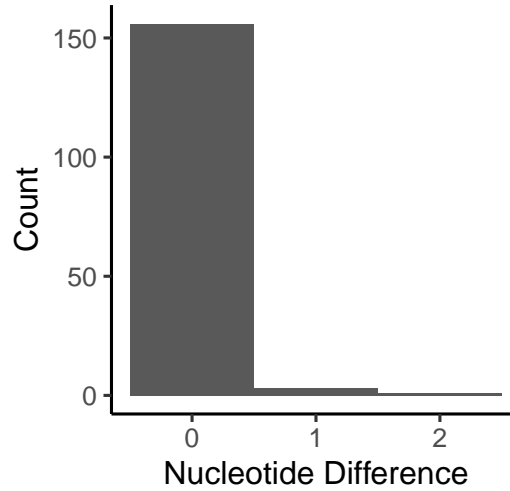
### TRBV6-23\*ap01

2037 sequences assigned  
2015 (98.9%) exact matches, in which:  
1979 unique CDR3  
13 unique J



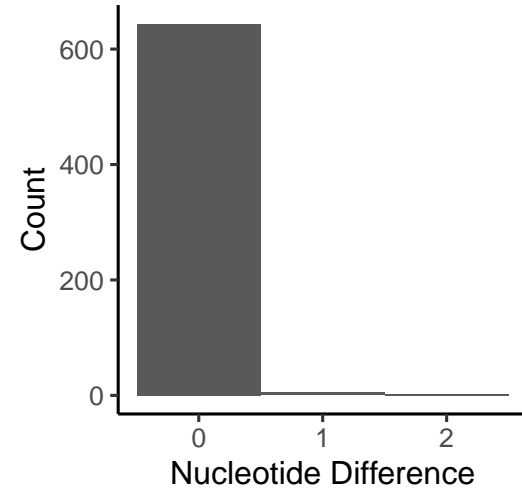
### TRBV7-1\*ap01\_G291C\_

160 sequences assigned  
156 (97.5%) exact matches, in which:  
149 unique CDR3  
13 unique J



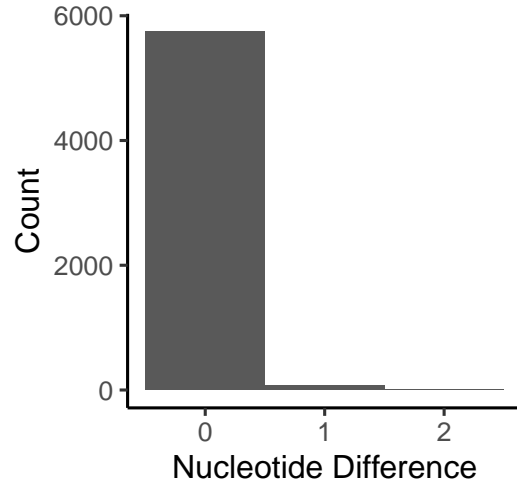
### TRBV7-3\*ap02

651 sequences assigned  
644 (98.9%) exact matches, in which:  
625 unique CDR3  
13 unique J



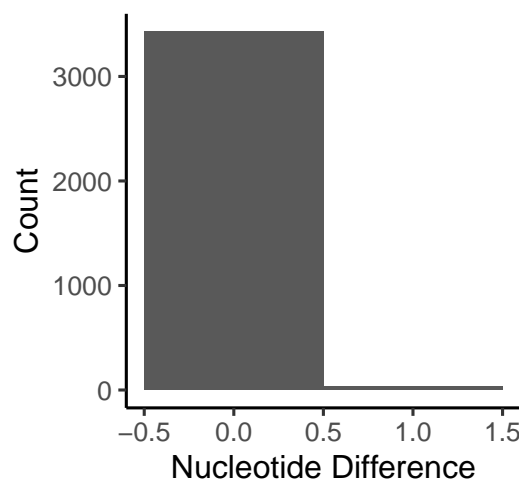
### TRBV6-56\*ap01

5823 sequences assigned  
5744 (98.6%) exact matches, in which:  
5610 unique CDR3  
13 unique J



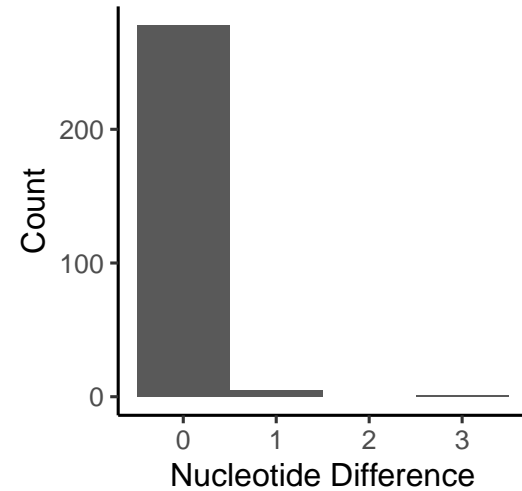
### TRBV7-2\*ap01

3462 sequences assigned  
3428 (99%) exact matches, in which:  
3364 unique CDR3  
13 unique J



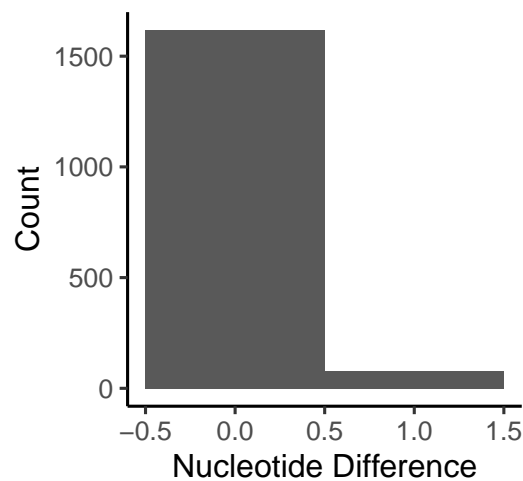
### TRBV7-4\*ap01

284 sequences assigned  
278 (97.9%) exact matches, in which:  
271 unique CDR3  
13 unique J



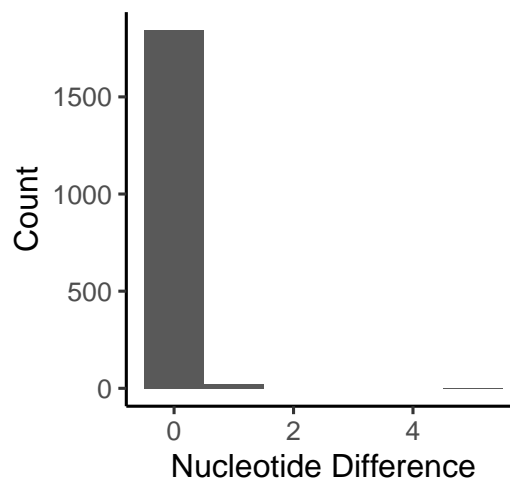
### TRBV6-56\*ap02

1696 sequences assigned  
1618 (95.4%) exact matches, in which:  
1587 unique CDR3  
13 unique J



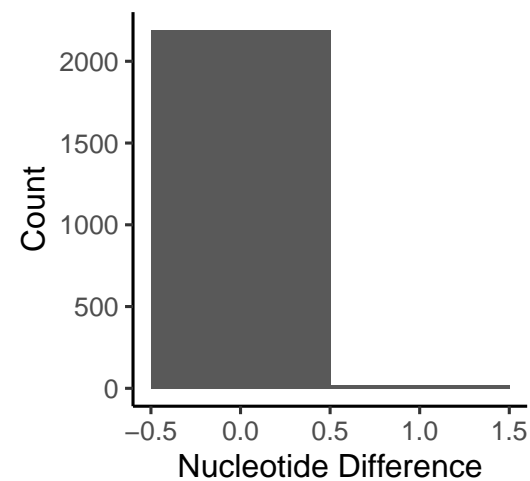
### TRBV7-3\*ap01

1867 sequences assigned  
1844 (98.8%) exact matches, in which:  
1830 unique CDR3  
13 unique J



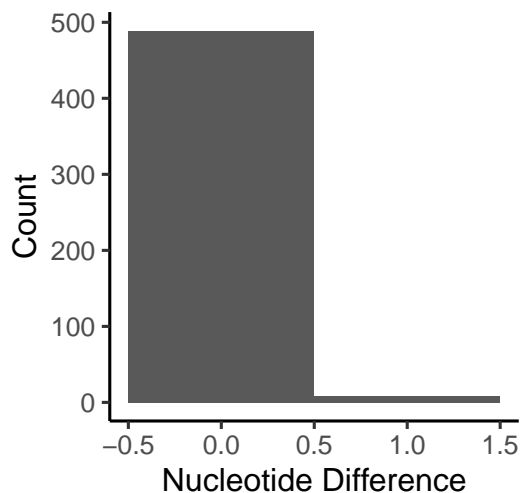
### TRBV7-6\*ap01

2212 sequences assigned  
2191 (99.1%) exact matches, in which:  
2138 unique CDR3  
14 unique J



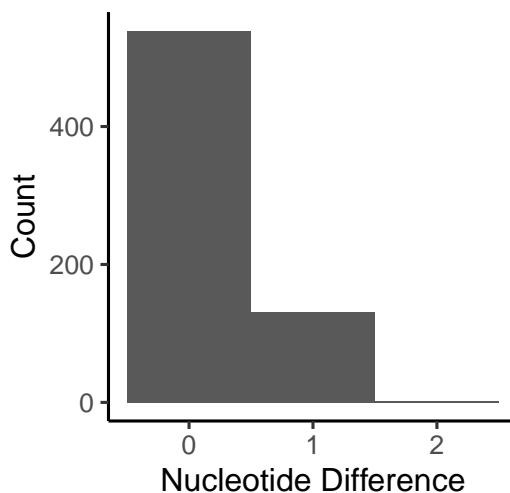
### TRBV7-7\*ap01

497 sequences assigned  
489 (98.4%) exact matches, in which:  
483 unique CDR3  
13 unique J



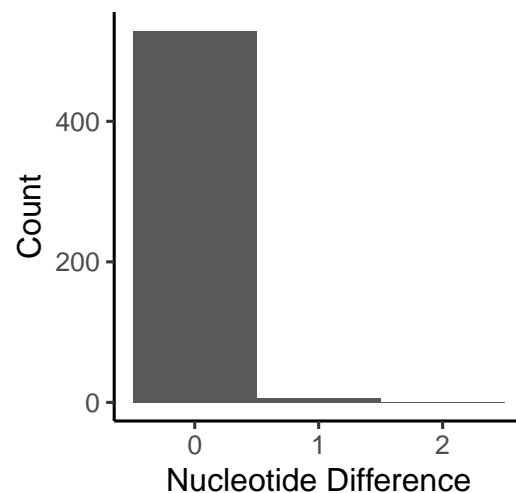
### TRBV7-8\*ap03

672 sequences assigned  
539 (80.2%) exact matches, in which:  
526 unique CDR3  
13 unique J



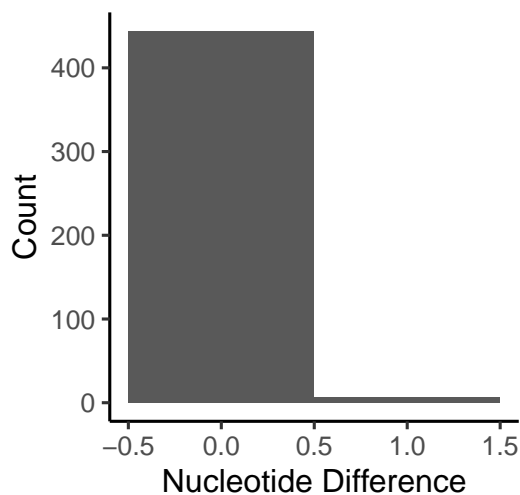
### TRBV29-1\*ap02

536 sequences assigned  
529 (98.7%) exact matches, in which:  
519 unique CDR3  
13 unique J



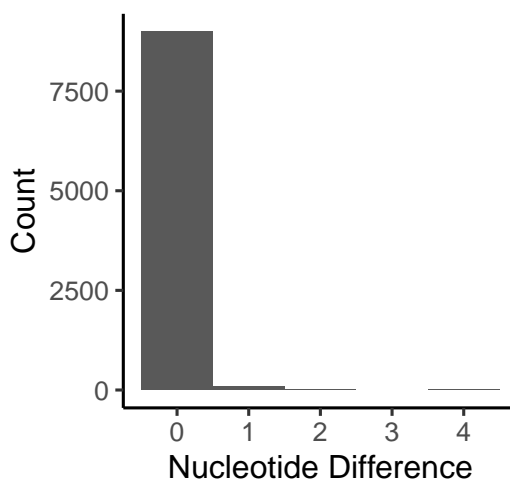
### TRBV7-7\*ap01\_C315T

450 sequences assigned  
444 (98.7%) exact matches, in which:  
435 unique CDR3  
13 unique J



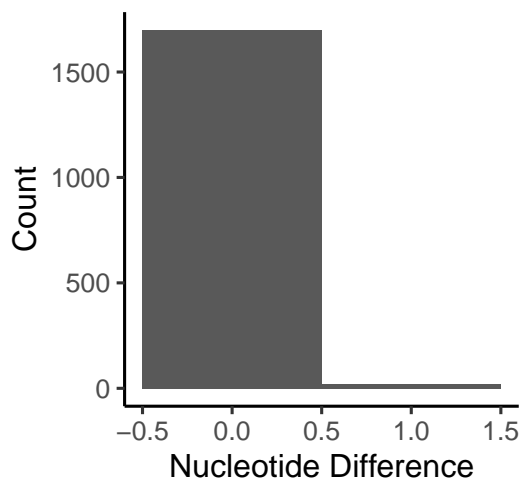
### TRBV7-9\*ap01

9084 sequences assigned  
8990 (99%) exact matches, in which:  
8846 unique CDR3  
13 unique J



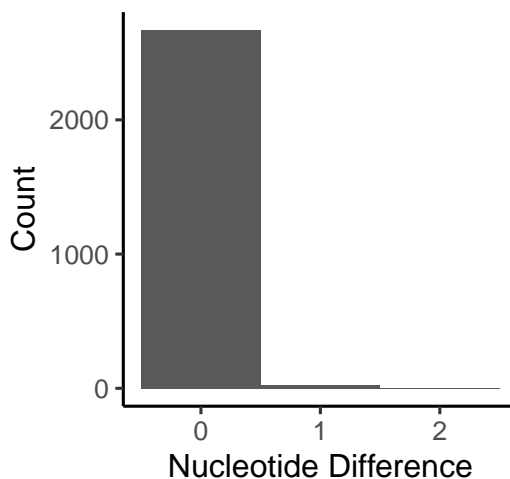
### TRBV7-8\*ap01

1720 sequences assigned  
1699 (98.8%) exact matches, in which:  
1664 unique CDR3  
13 unique J

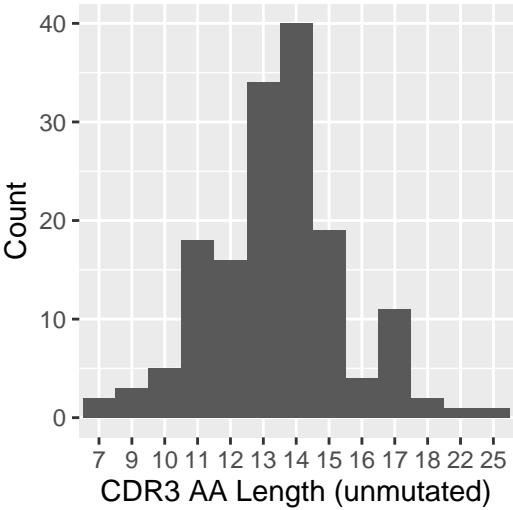


### TRBV29-1\*ap01

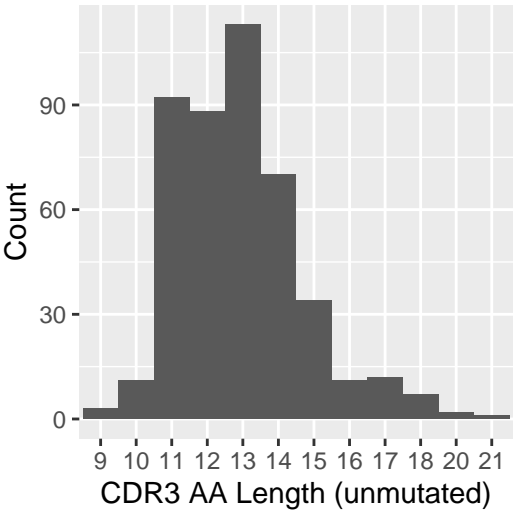
2696 sequences assigned  
2669 (99%) exact matches, in which:  
2621 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]