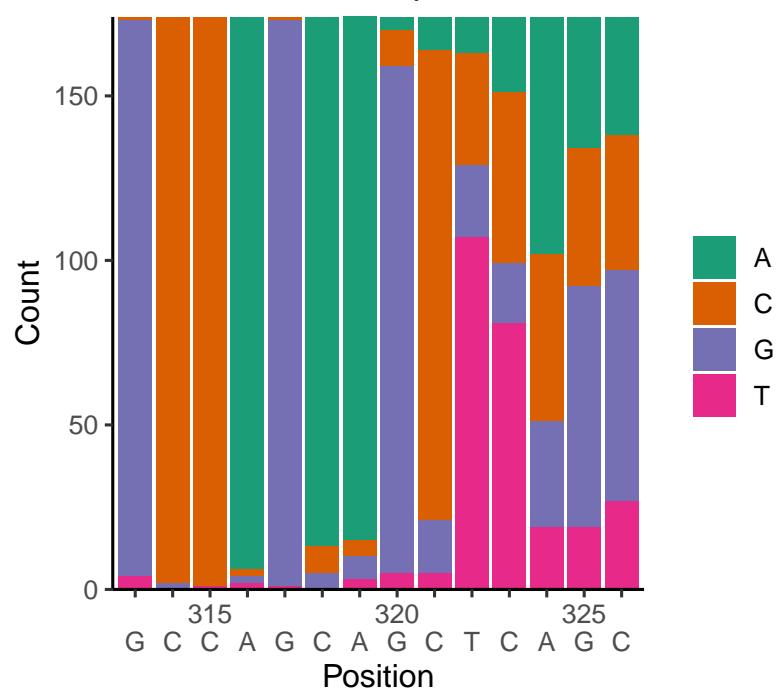
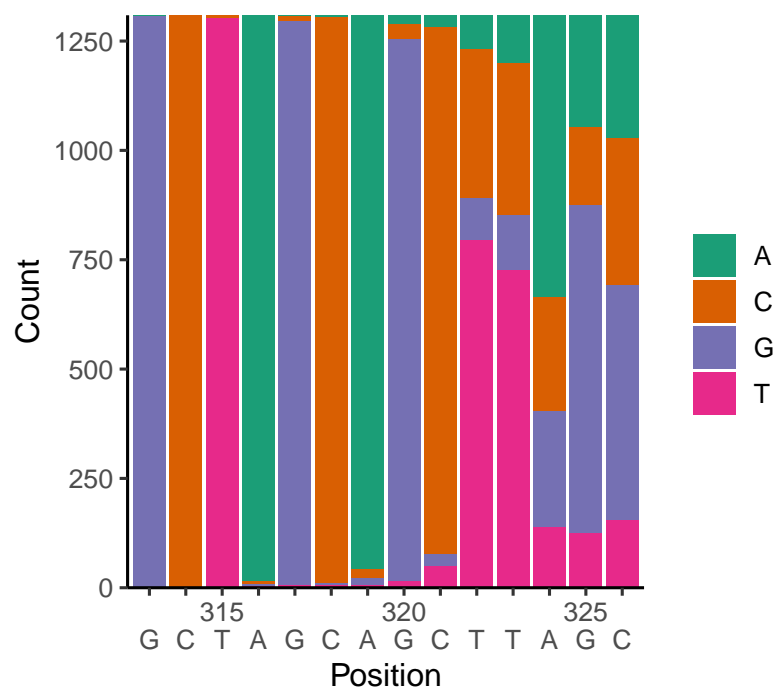


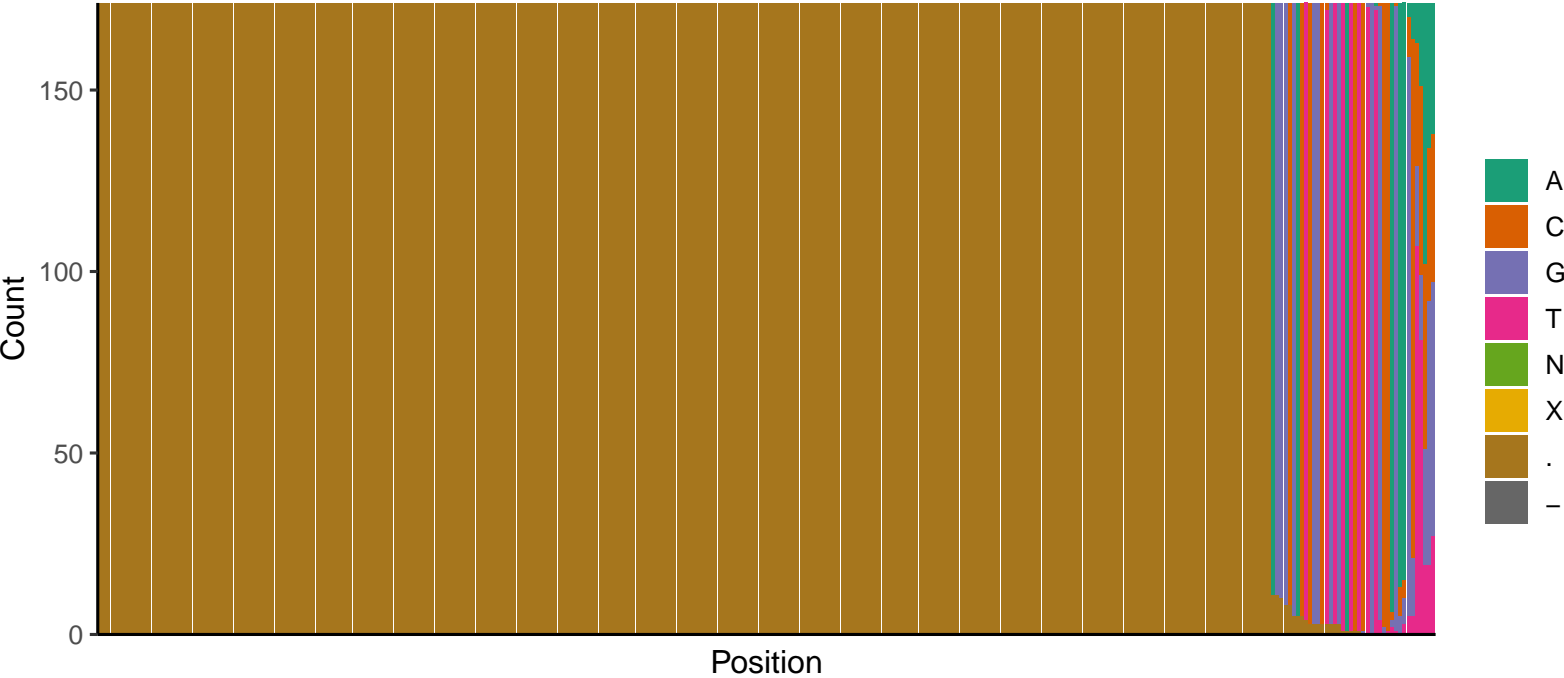
Gene TRBV7-1\*ap01\_G291C\_T296C



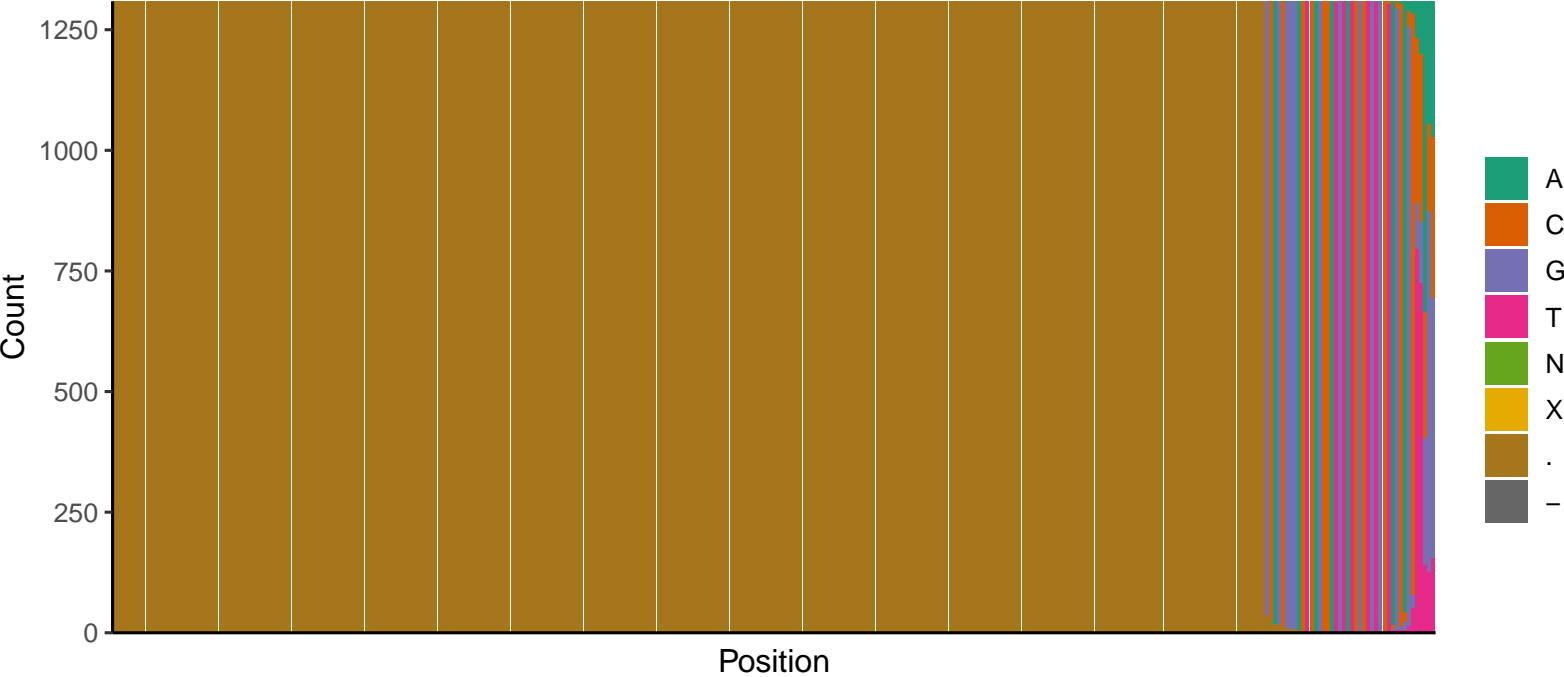
Gene TRBV7-7\*ap01\_C315T



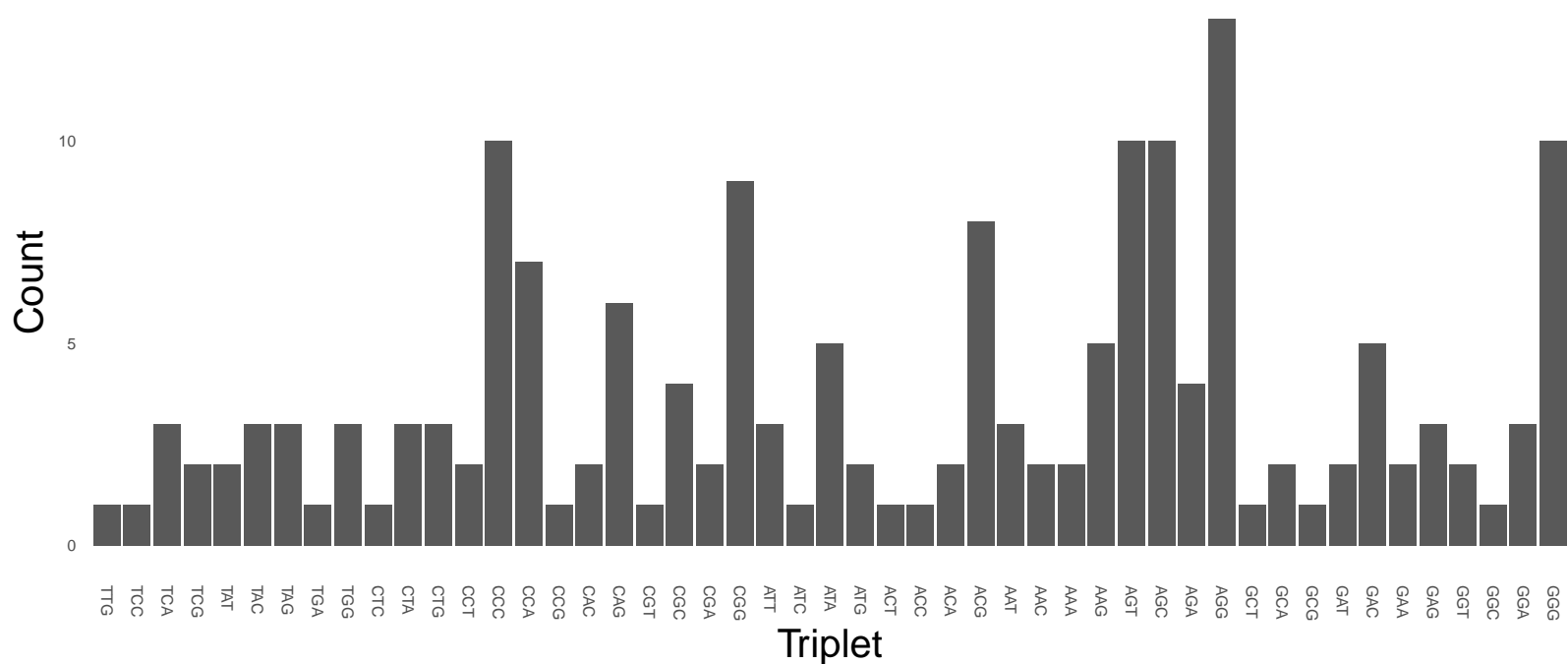
Gene TRBV7-1\*ap01\_G291C\_T296C



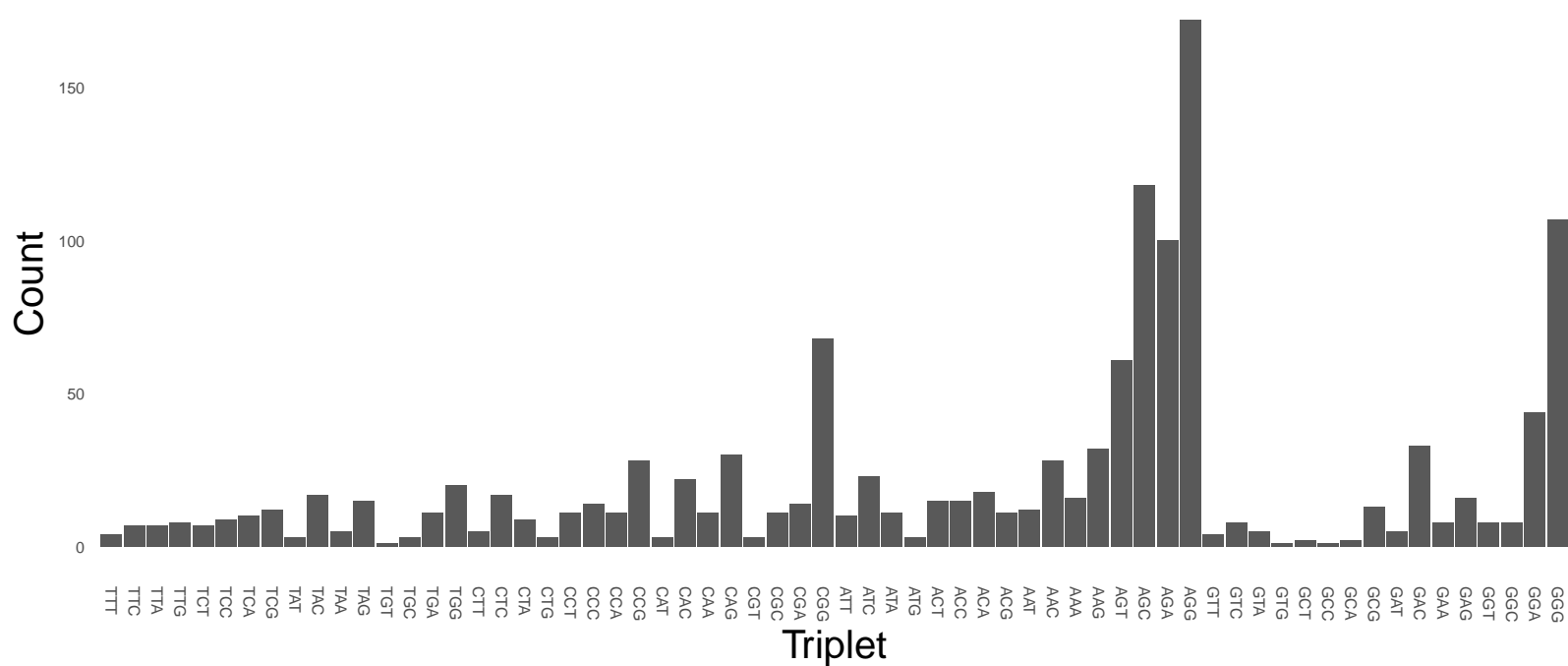
Gene TRBV7-7\*ap01\_C315T



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

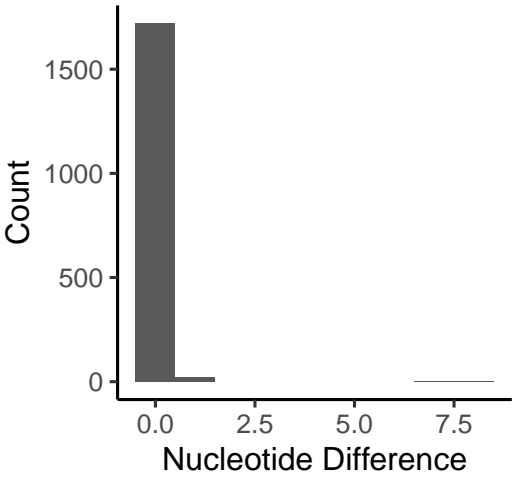


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



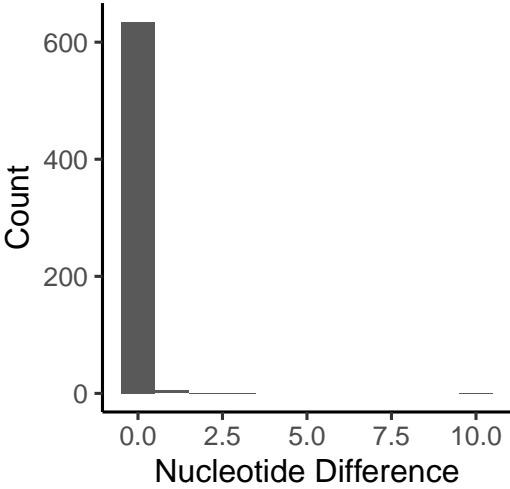
TRBV10-1\*ap01

1746 sequences assigned  
1720 (98.5%) exact matches, in which:  
1670 unique CDR3  
13 unique J



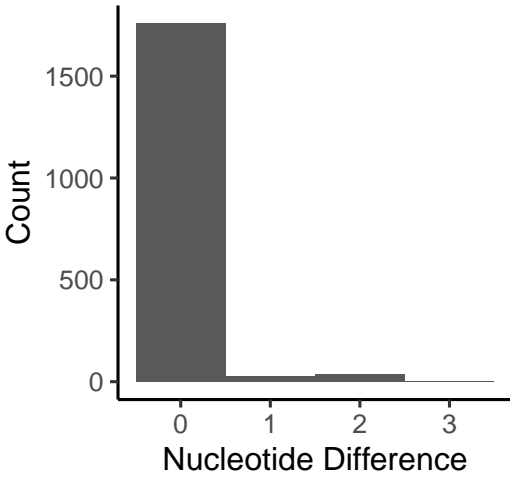
TRBV10-2\*ap01

643 sequences assigned  
635 (98.8%) exact matches, in which:  
622 unique CDR3  
13 unique J



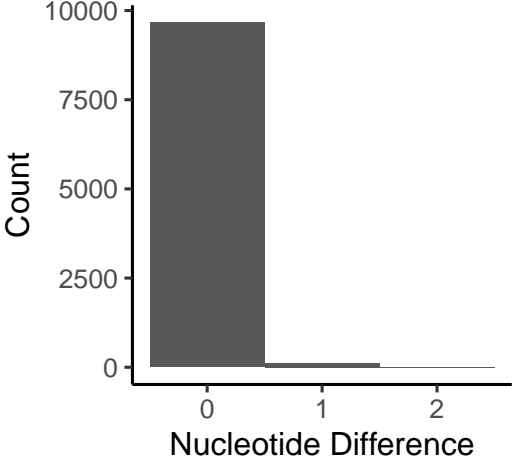
TRBV13\*ap01

1825 sequences assigned  
1759 (96.4%) exact matches, in which:  
1715 unique CDR3  
13 unique J



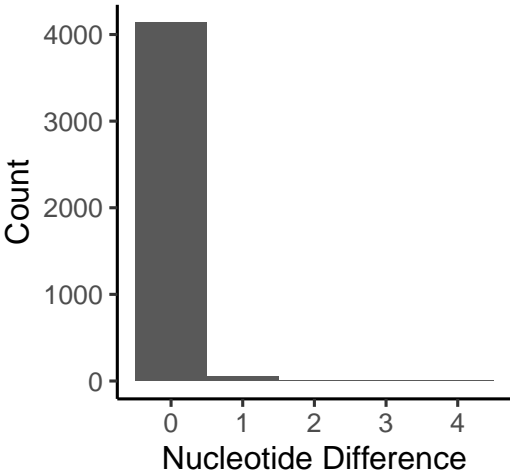
TRBV20-1\*ap01

9786 sequences assigned  
9666 (98.8%) exact matches, in which:  
9486 unique CDR3  
14 unique J



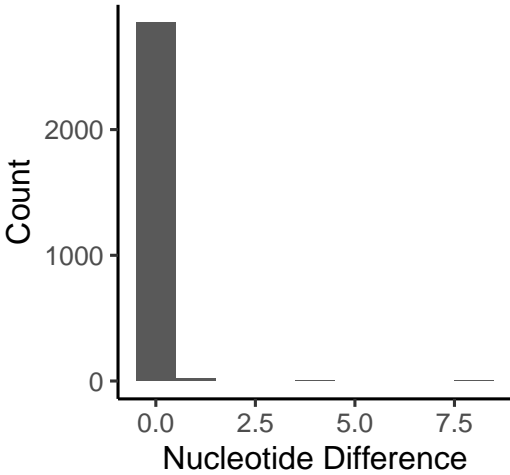
TRBV10-3\*ap01

4191 sequences assigned  
4136 (98.7%) exact matches, in which:  
4041 unique CDR3  
13 unique J



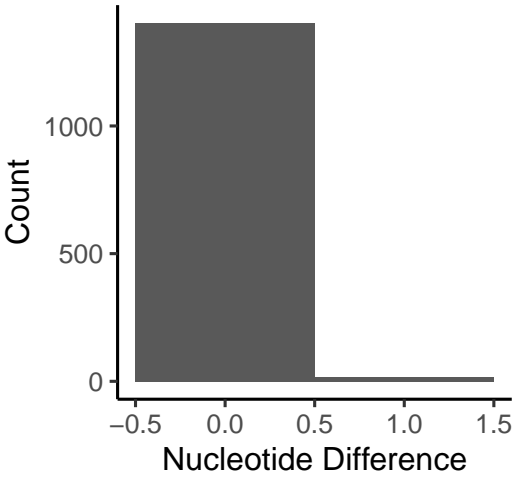
TRBV14\*ap01

2871 sequences assigned  
2850 (99.3%) exact matches, in which:  
2784 unique CDR3  
13 unique J



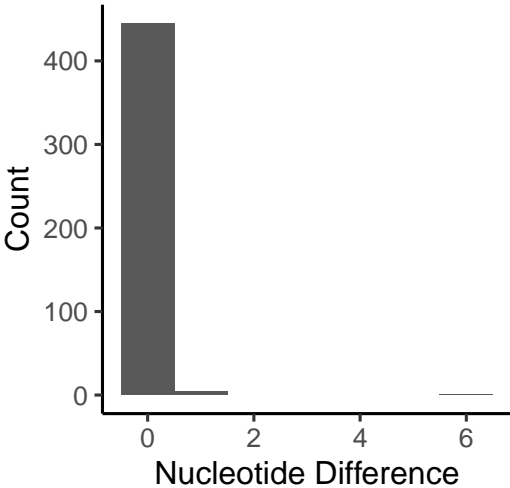
TRBV20-1\*ap02

1421 sequences assigned  
1403 (98.7%) exact matches, in which:  
1380 unique CDR3  
13 unique J



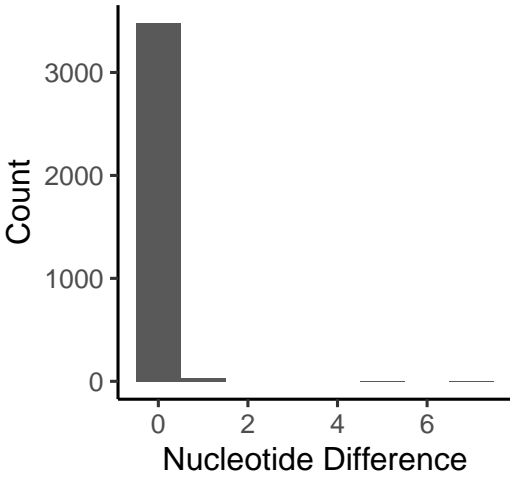
TRBV1\*ap01

450 sequences assigned  
445 (98.9%) exact matches, in which:  
437 unique CDR3  
13 unique J



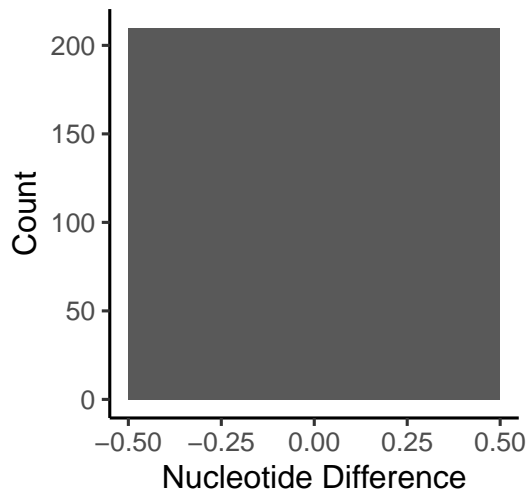
TRBV15\*ap02

3513 sequences assigned  
3480 (99.1%) exact matches, in which:  
3402 unique CDR3  
13 unique J



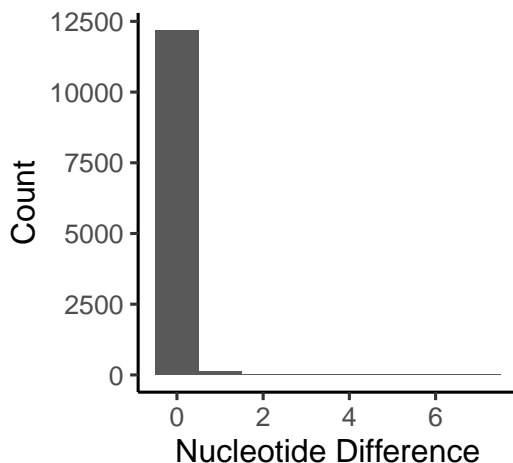
### TRBV16\*ap01

210 sequences assigned  
210 (100%) exact matches, in which:  
209 unique CDR3  
13 unique J



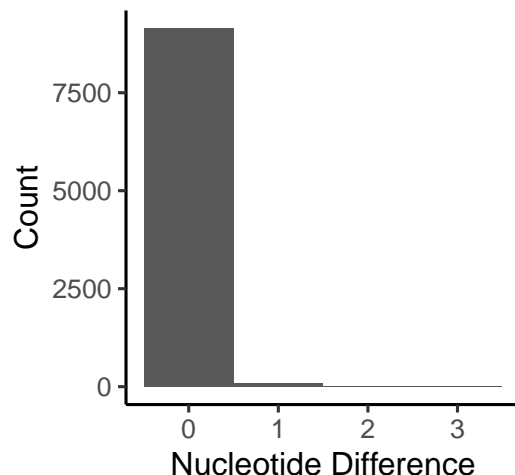
### TRBV19\*ap01

12334 sequences assigned  
12189 (98.8%) exact matches, in which:  
12025 unique CDR3  
13 unique J



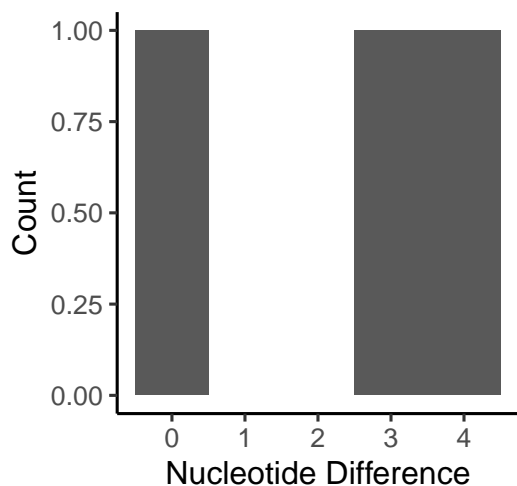
### TRBV28\*ap01

9249 sequences assigned  
9141 (98.8%) exact matches, in which:  
8987 unique CDR3  
13 unique J



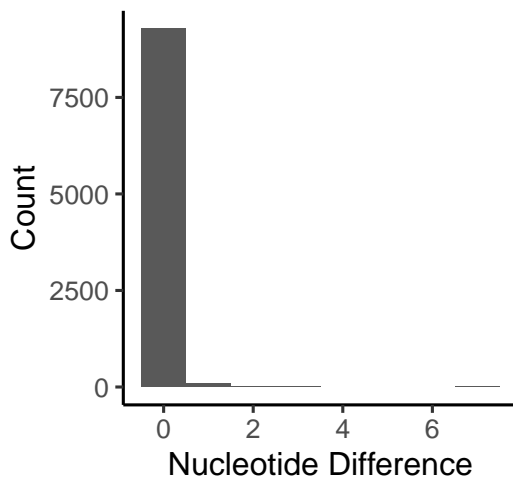
### TRBV17\*ap01

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



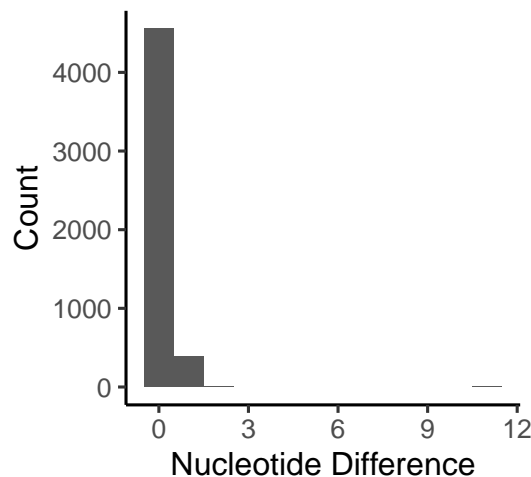
### TRBV2\*ap01

9389 sequences assigned  
9279 (98.8%) exact matches, in which:  
9093 unique CDR3  
13 unique J



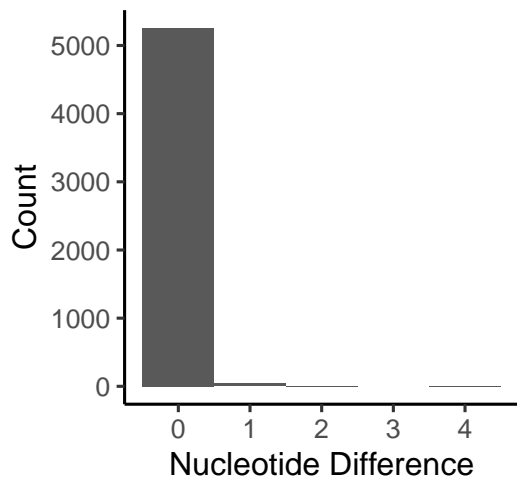
### TRBV30\*ap01

4955 sequences assigned  
4555 (91.9%) exact matches, in which:  
4475 unique CDR3  
13 unique J



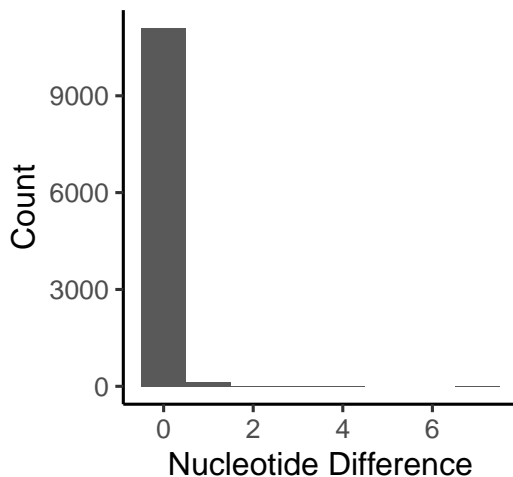
### TRBV18\*ap01

5302 sequences assigned  
5256 (99.1%) exact matches, in which:  
5175 unique CDR3  
13 unique J



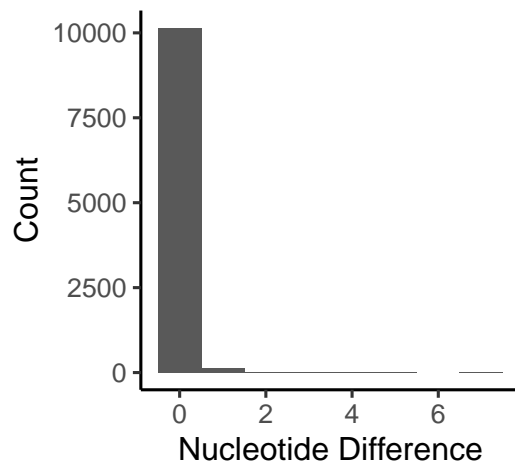
### TRBV27\*ap01

11246 sequences assigned  
11098 (98.7%) exact matches, in which:  
10789 unique CDR3  
13 unique J



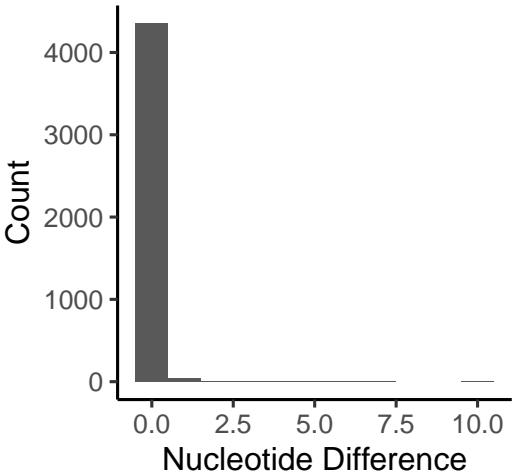
### TRBV9\*ap01

10280 sequences assigned  
10149 (98.7%) exact matches, in which:  
9966 unique CDR3  
13 unique J



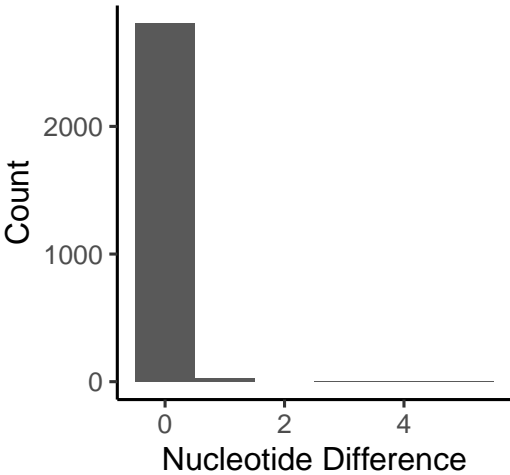
TRBV21-1\*ap01

4418 sequences assigned  
4353 (98.5%) exact matches, in which:  
4289 unique CDR3  
13 unique J



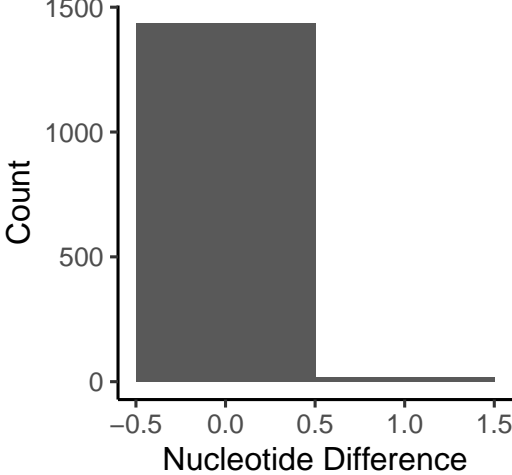
TRBV11-3\*ap01

2842 sequences assigned  
2807 (98.8%) exact matches, in which:  
2746 unique CDR3  
13 unique J



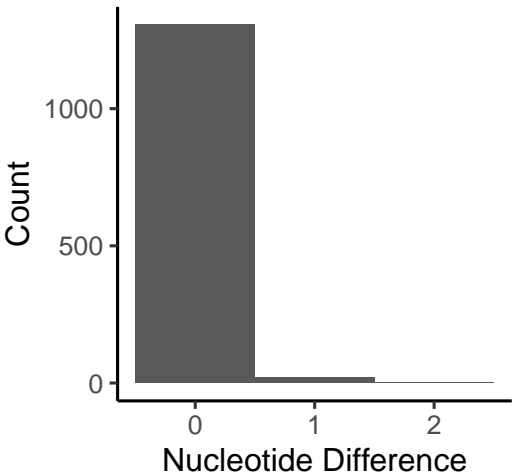
TRBV12-5\*ap01

1452 sequences assigned  
1435 (98.8%) exact matches, in which:  
1405 unique CDR3  
13 unique J



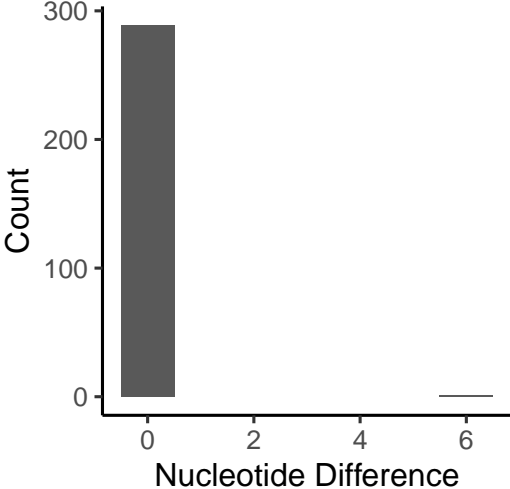
TRBV11-1\*ap01

1326 sequences assigned  
1306 (98.5%) exact matches, in which:  
1280 unique CDR3  
13 unique J



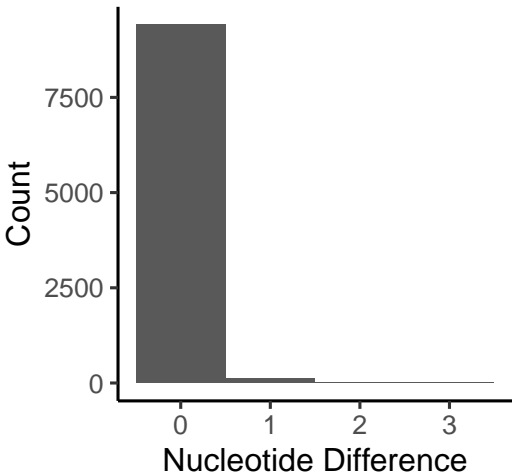
TRBV12-1\*ap01

290 sequences assigned  
289 (99.7%) exact matches, in which:  
284 unique CDR3  
13 unique J



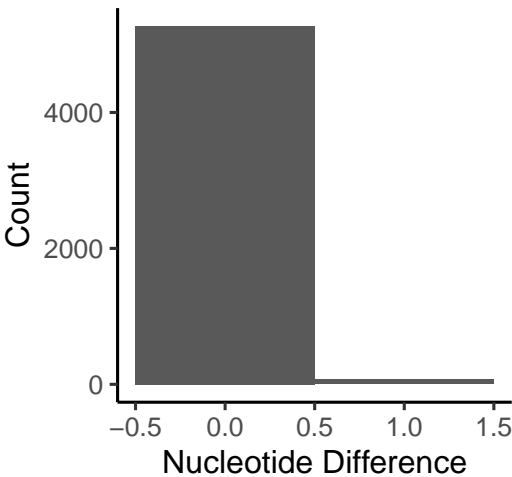
TRBV12-34\*ap01

9541 sequences assigned  
9408 (98.6%) exact matches, in which:  
9205 unique CDR3  
13 unique J



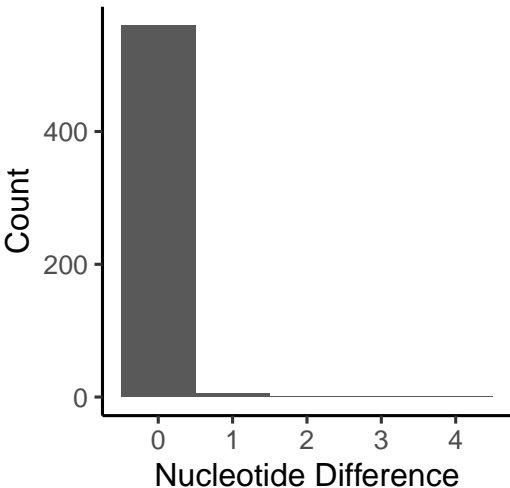
TRBV11-2\*ap01

5341 sequences assigned  
5272 (98.7%) exact matches, in which:  
5148 unique CDR3  
13 unique J



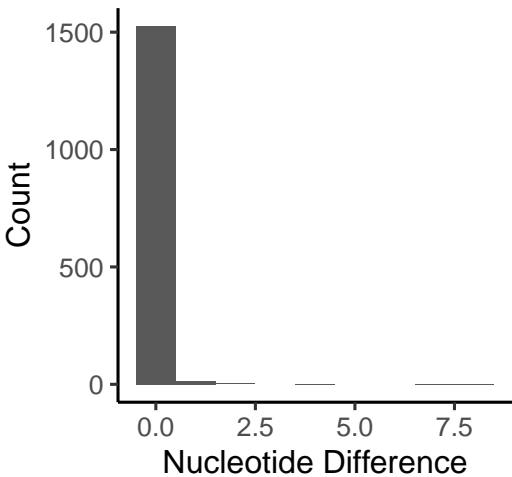
TRBV12-2\*ap01

569 sequences assigned  
560 (98.4%) exact matches, in which:  
543 unique CDR3  
14 unique J



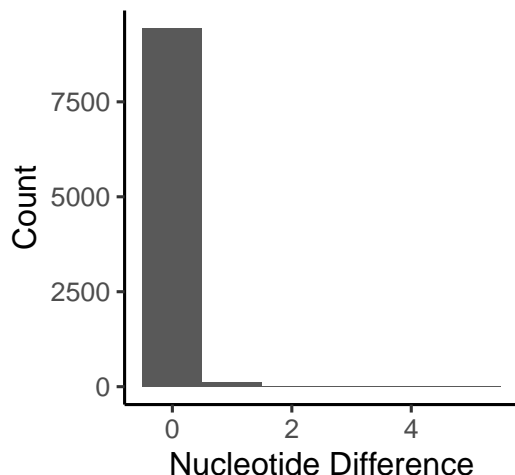
TRBV23-1\*ap01

1546 sequences assigned  
1526 (98.7%) exact matches, in which:  
1490 unique CDR3  
13 unique J



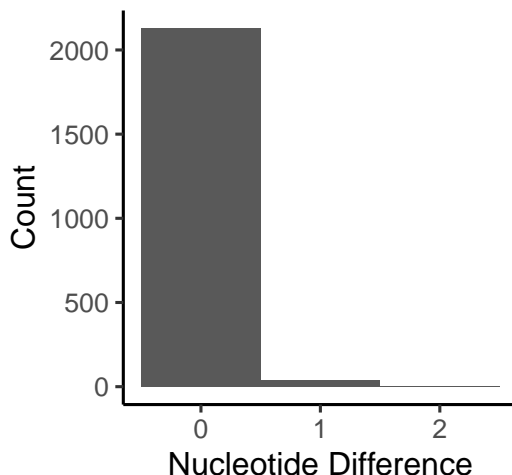
### TRBV3-12\*ap01

9555 sequences assigned  
9433 (98.7%) exact matches, in which:  
9229 unique CDR3  
13 unique J



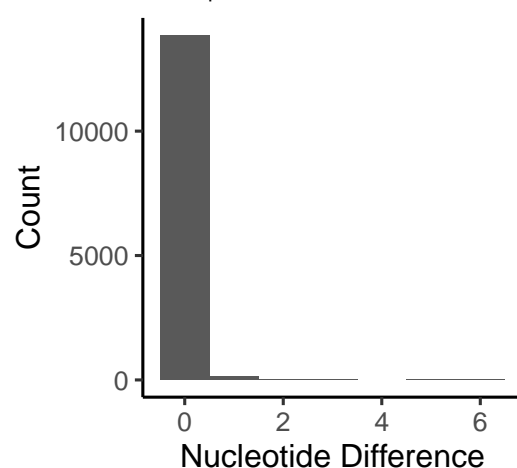
### TRBV4-2\*ap01

2166 sequences assigned  
2128 (98.2%) exact matches, in which:  
2078 unique CDR3  
13 unique J



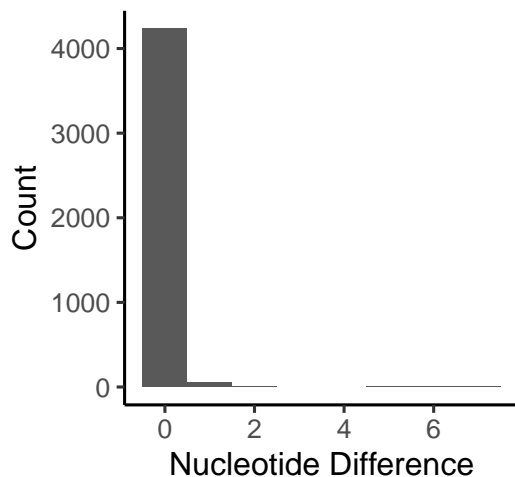
### TRBV5-1\*ap01

14005 sequences assigned  
13857 (98.9%) exact matches, in which:  
13528 unique CDR3  
13 unique J



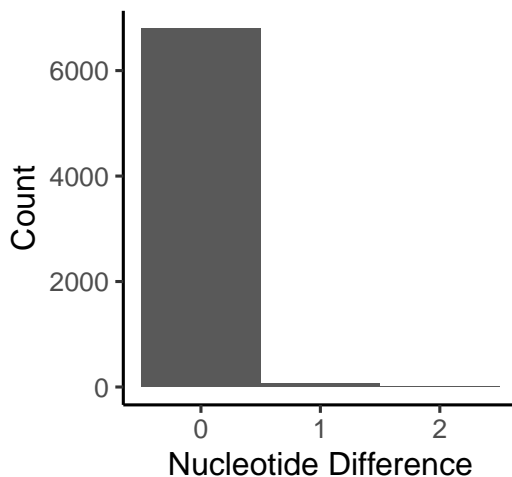
### TRBV24-1\*ap01

4294 sequences assigned  
4234 (98.6%) exact matches, in which:  
4160 unique CDR3  
13 unique J



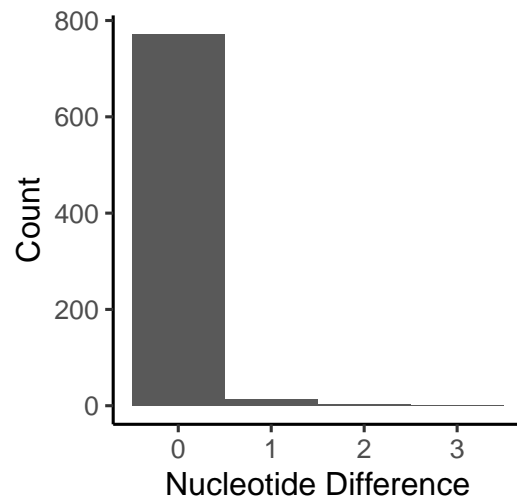
### TRBV4-3\*ap01

6861 sequences assigned  
6794 (99%) exact matches, in which:  
6635 unique CDR3  
13 unique J



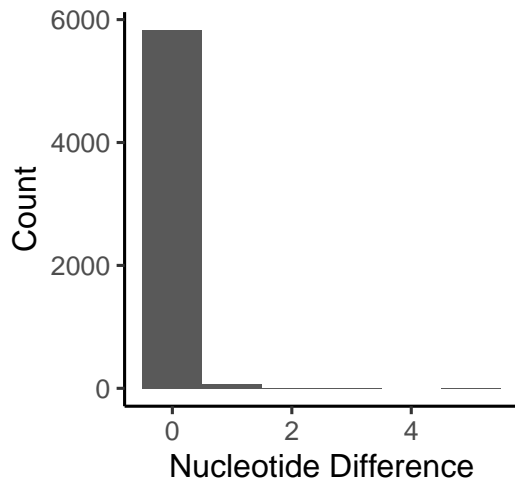
### TRBV5-3\*ap01

790 sequences assigned  
772 (97.7%) exact matches, in which:  
761 unique CDR3  
13 unique J



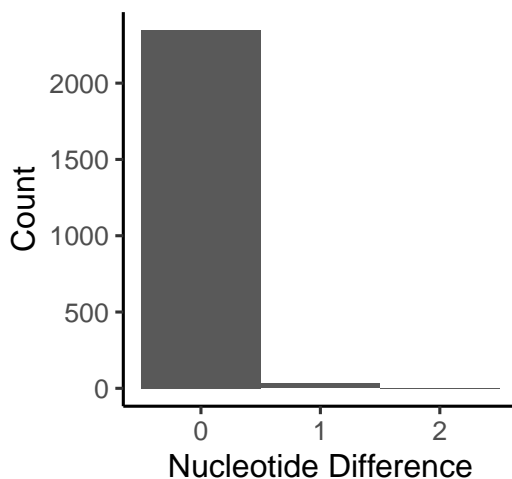
### TRBV4-1\*ap01

5903 sequences assigned  
5830 (98.8%) exact matches, in which:  
5710 unique CDR3  
13 unique J



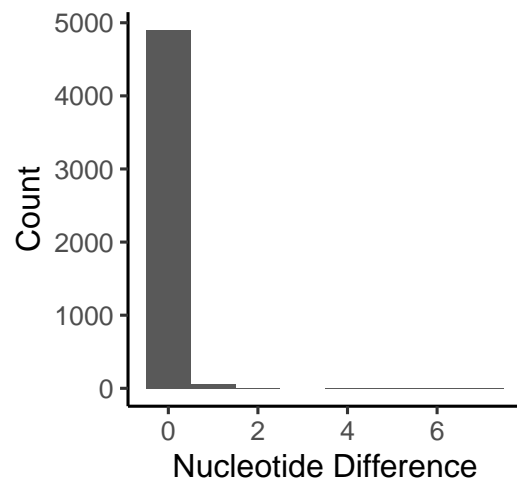
### TRBV25-1\*ap01

2381 sequences assigned  
2348 (98.6%) exact matches, in which:  
2312 unique CDR3  
13 unique J



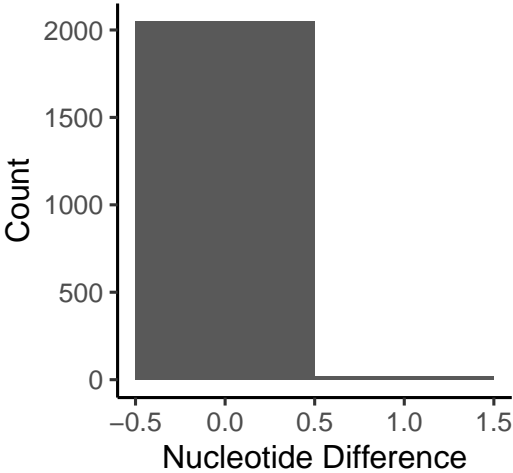
### TRBV5-4\*ap01

4965 sequences assigned  
4900 (98.7%) exact matches, in which:  
4776 unique CDR3  
13 unique J



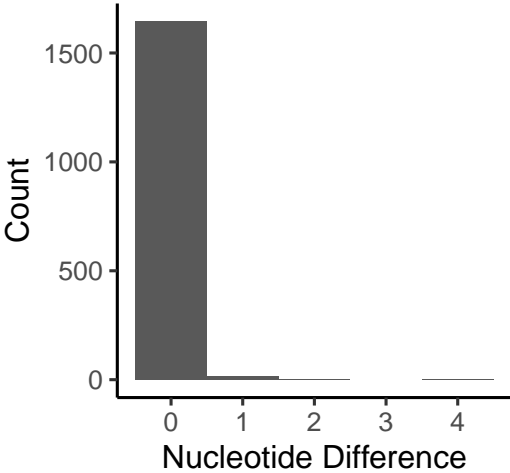
TRBV5-5\*ap01

2067 sequences assigned  
2049 (99.1%) exact matches, in which:  
2026 unique CDR3  
13 unique J



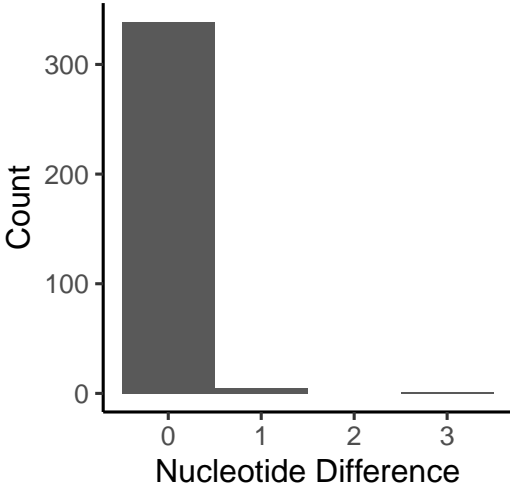
TRBV5-8\*ap01

1665 sequences assigned  
1645 (98.8%) exact matches, in which:  
1613 unique CDR3  
13 unique J



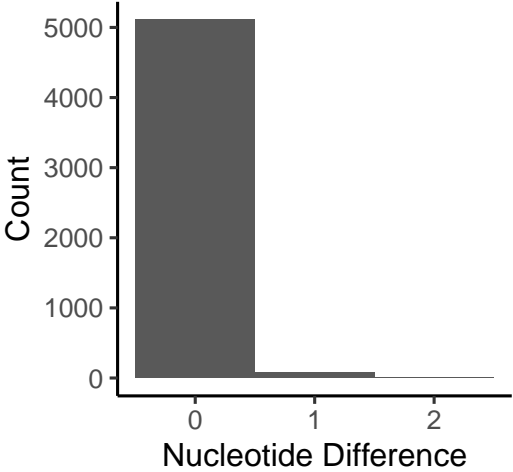
TRBV6-7\*ap01

345 sequences assigned  
339 (98.3%) exact matches, in which:  
332 unique CDR3  
13 unique J



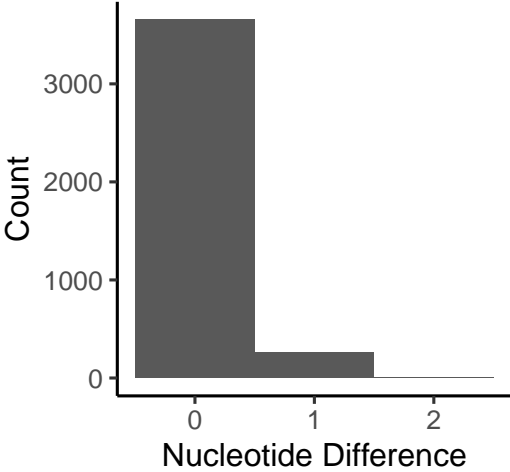
TRBV5-6\*ap01

5185 sequences assigned  
5110 (98.6%) exact matches, in which:  
4990 unique CDR3  
13 unique J



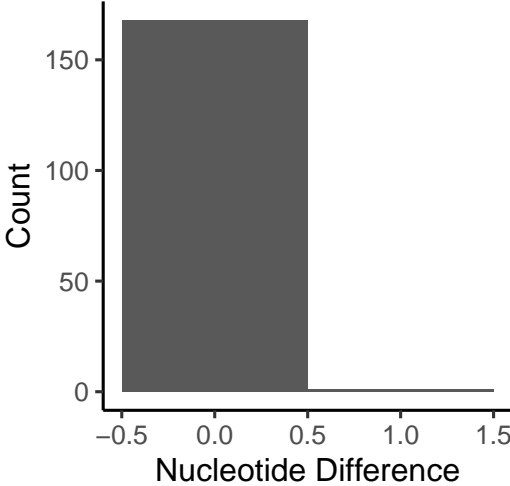
TRBV6-1\*ap01

3923 sequences assigned  
3654 (93.1%) exact matches, in which:  
3559 unique CDR3  
14 unique J



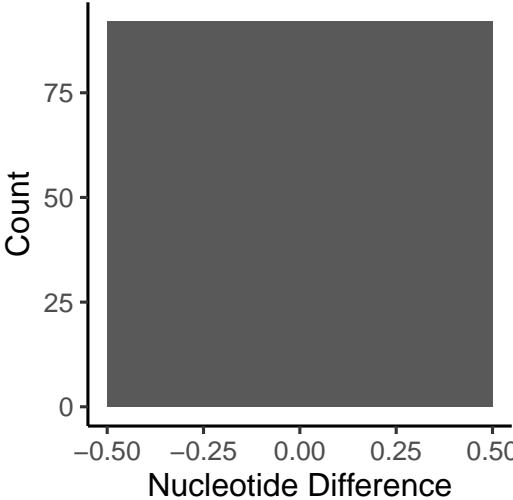
TRBV6-8\*ap01

169 sequences assigned  
168 (99.4%) exact matches, in which:  
164 unique CDR3  
13 unique J



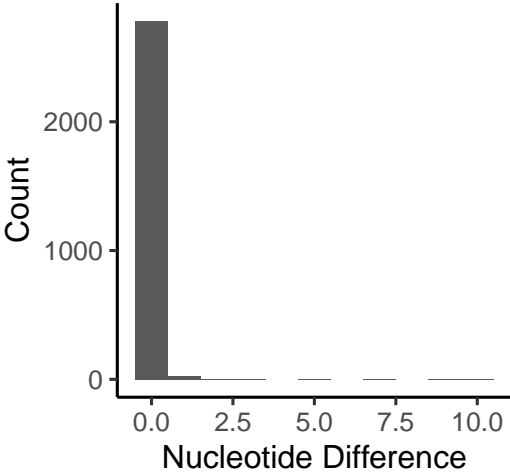
TRBV5-7\*ap01

92 sequences assigned  
92 (100%) exact matches, in which:  
90 unique CDR3  
12 unique J



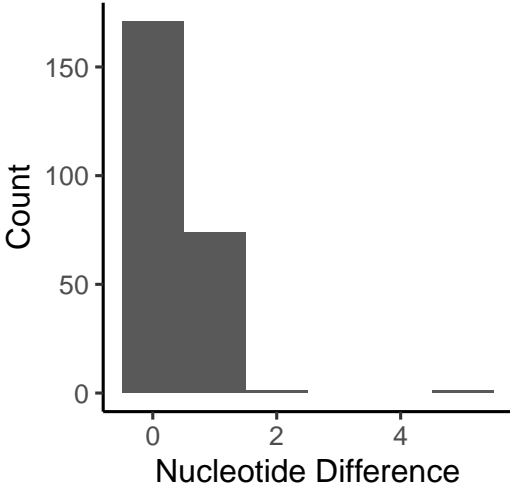
TRBV6-4\*ap01

2820 sequences assigned  
2782 (98.7%) exact matches, in which:  
2737 unique CDR3  
13 unique J



TRBV6-9\*ap01

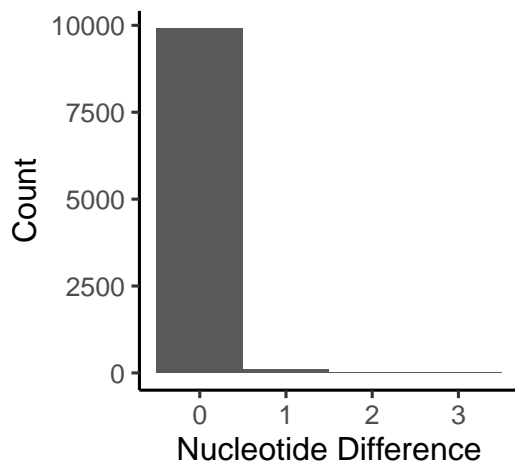
247 sequences assigned  
171 (69.2%) exact matches, in which:  
167 unique CDR3  
13 unique J





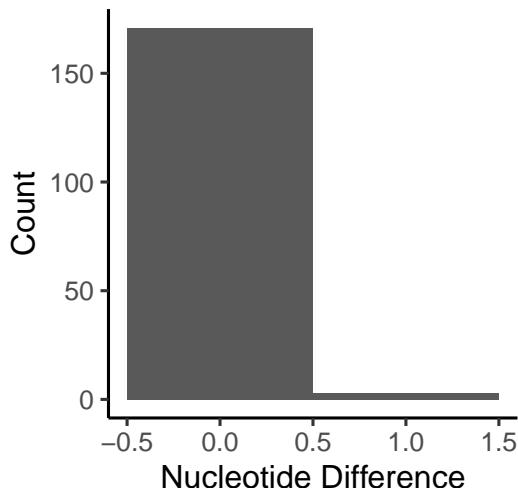
### TRBV6-23\*ap01

10037 sequences assigned  
9919 (98.8%) exact matches, in which:  
9720 unique CDR3  
13 unique J



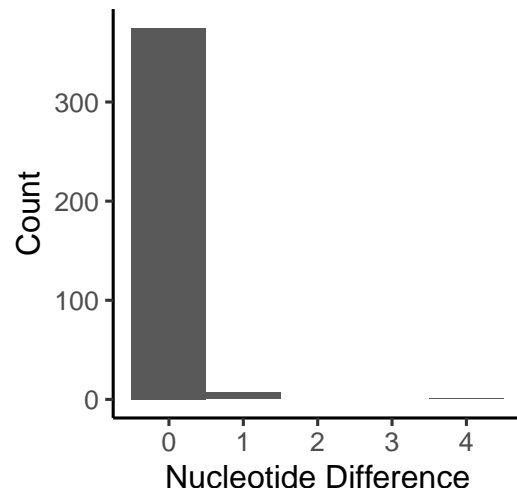
### TRBV7-1\*ap01\_G291C\_

174 sequences assigned  
171 (98.3%) exact matches, in which:  
170 unique CDR3  
13 unique J



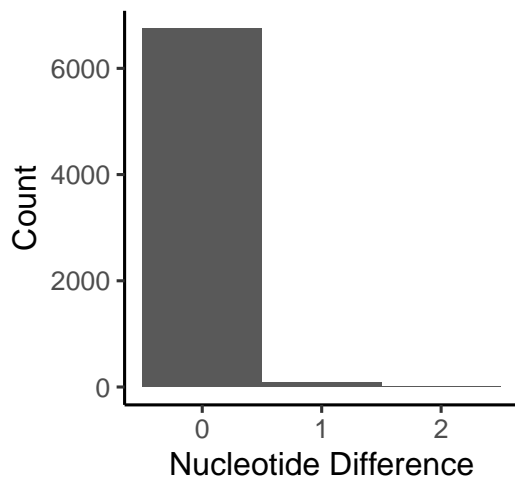
### TRBV7-4\*ap01

383 sequences assigned  
375 (97.9%) exact matches, in which:  
367 unique CDR3  
13 unique J



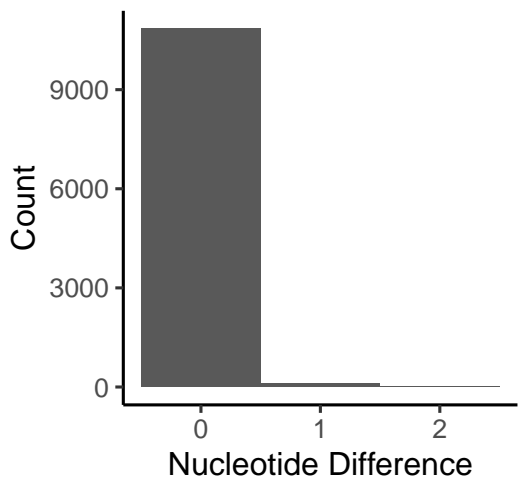
### TRBV6-56\*ap01

6831 sequences assigned  
6746 (98.8%) exact matches, in which:  
6602 unique CDR3  
13 unique J



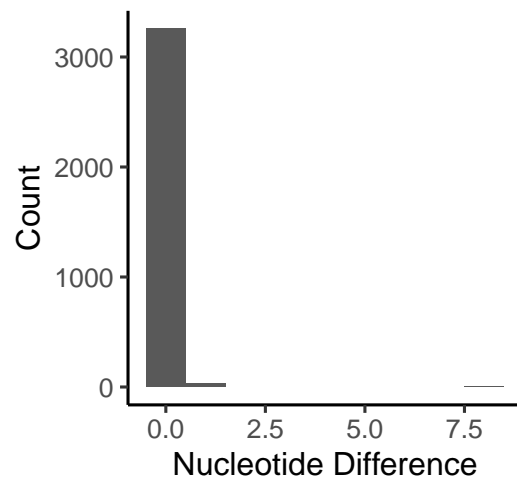
### TRBV7-2\*ap01

10956 sequences assigned  
10844 (99%) exact matches, in which:  
10641 unique CDR3  
13 unique J



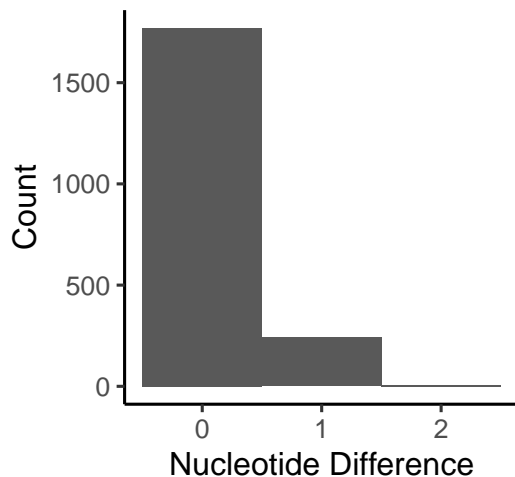
### TRBV7-6\*ap01

3290 sequences assigned  
3257 (99%) exact matches, in which:  
3190 unique CDR3  
13 unique J



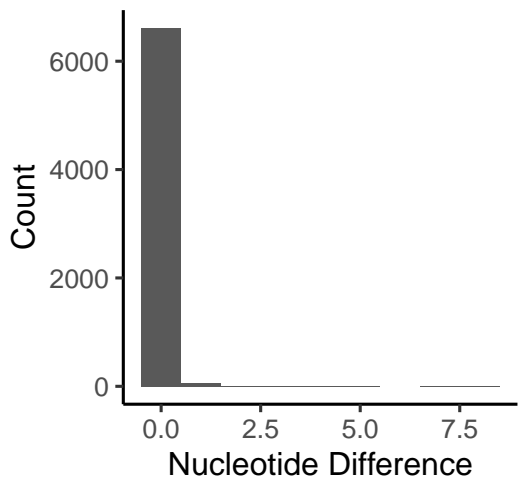
### TRBV6-56\*ap02

2016 sequences assigned  
1770 (87.8%) exact matches, in which:  
1733 unique CDR3  
13 unique J



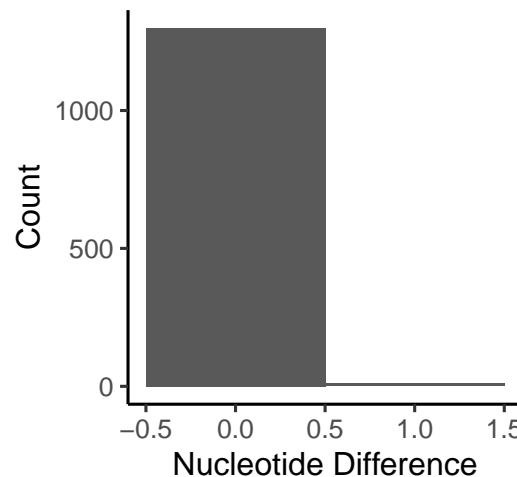
### TRBV7-3\*ap01

6689 sequences assigned  
6612 (98.8%) exact matches, in which:  
6498 unique CDR3  
13 unique J



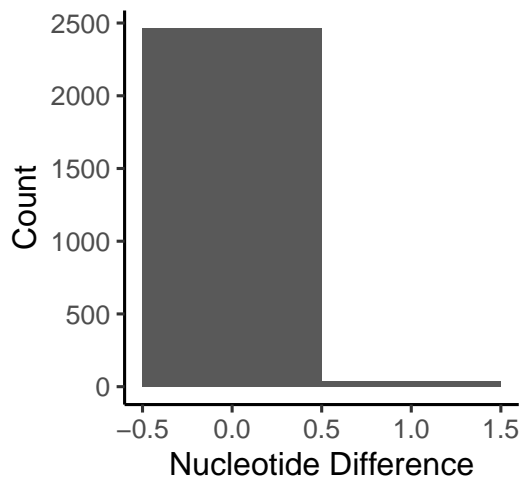
### TRBV7-7\*ap01\_C315T

1309 sequences assigned  
1299 (99.2%) exact matches, in which:  
1278 unique CDR3  
13 unique J



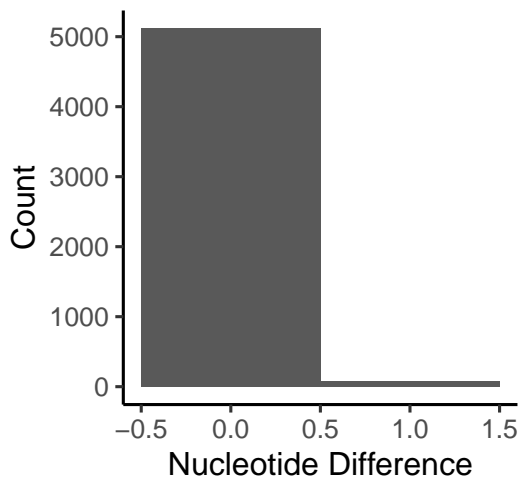
### TRBV7-8\*ap01

2499 sequences assigned  
2463 (98.6%) exact matches, in which:  
2392 unique CDR3  
13 unique J



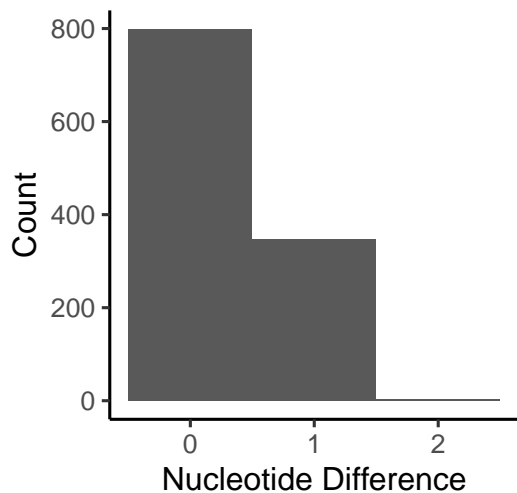
### TRBV29-1\*ap01

5191 sequences assigned  
5118 (98.6%) exact matches, in which:  
5007 unique CDR3  
13 unique J



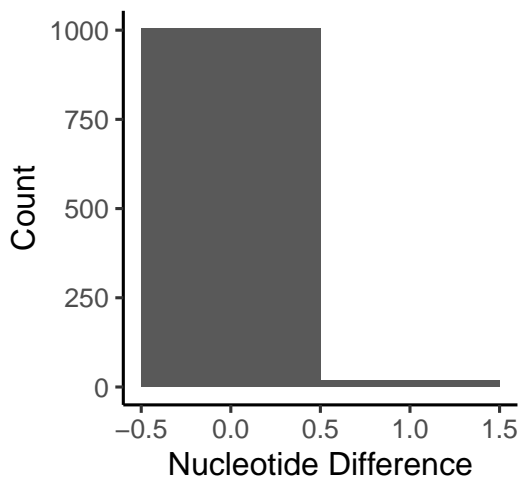
### TRBV7-8\*ap03

1149 sequences assigned  
799 (69.5%) exact matches, in which:  
781 unique CDR3  
13 unique J



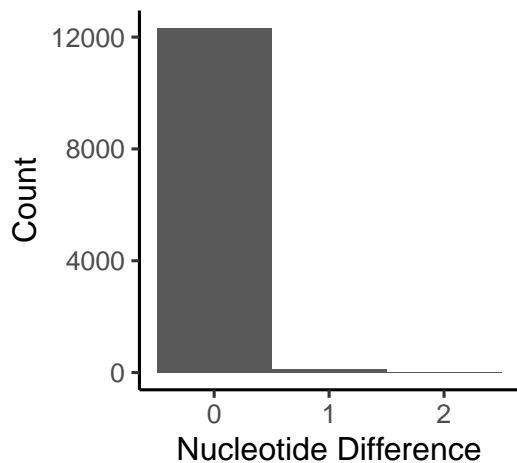
### TRBV29-1\*ap02

1021 sequences assigned  
1004 (98.3%) exact matches, in which:  
979 unique CDR3  
13 unique J

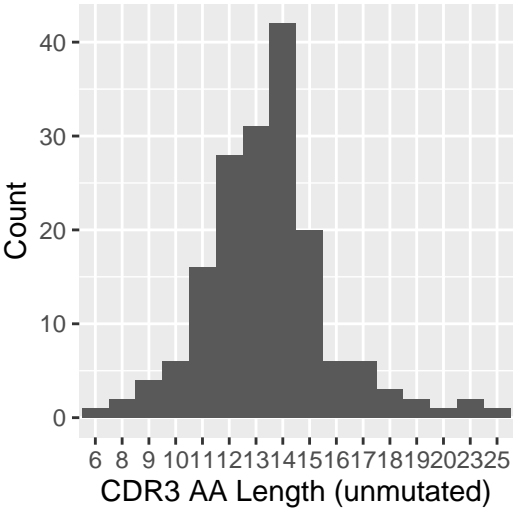


### TRBV7-9\*ap01

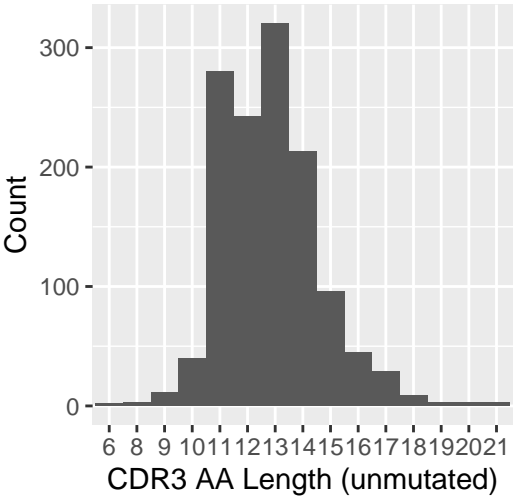
12445 sequences assigned  
12333 (99.1%) exact matches, in which:  
12103 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]