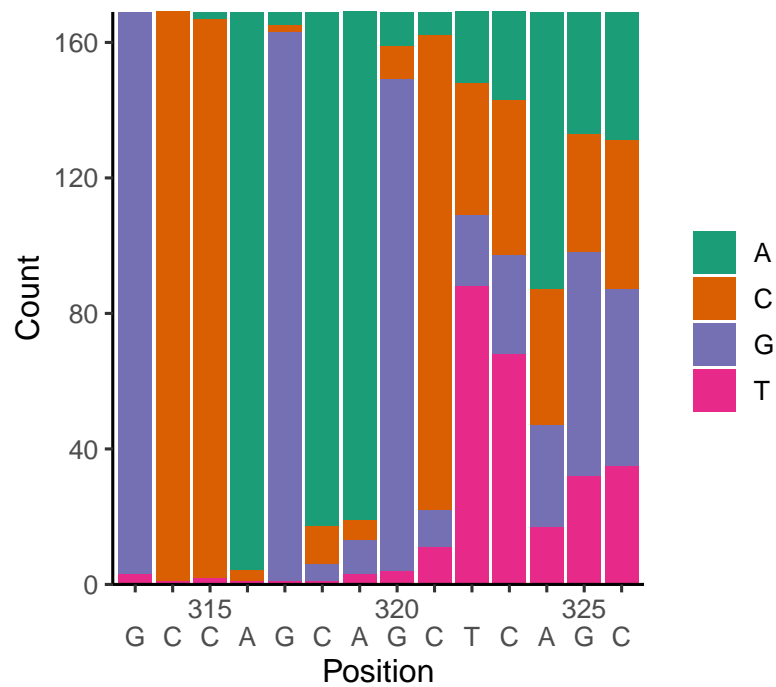
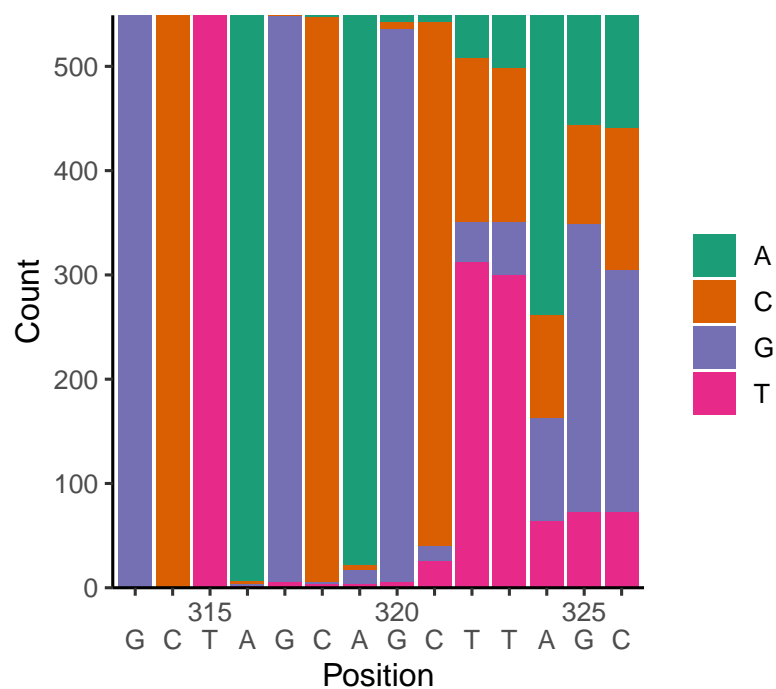


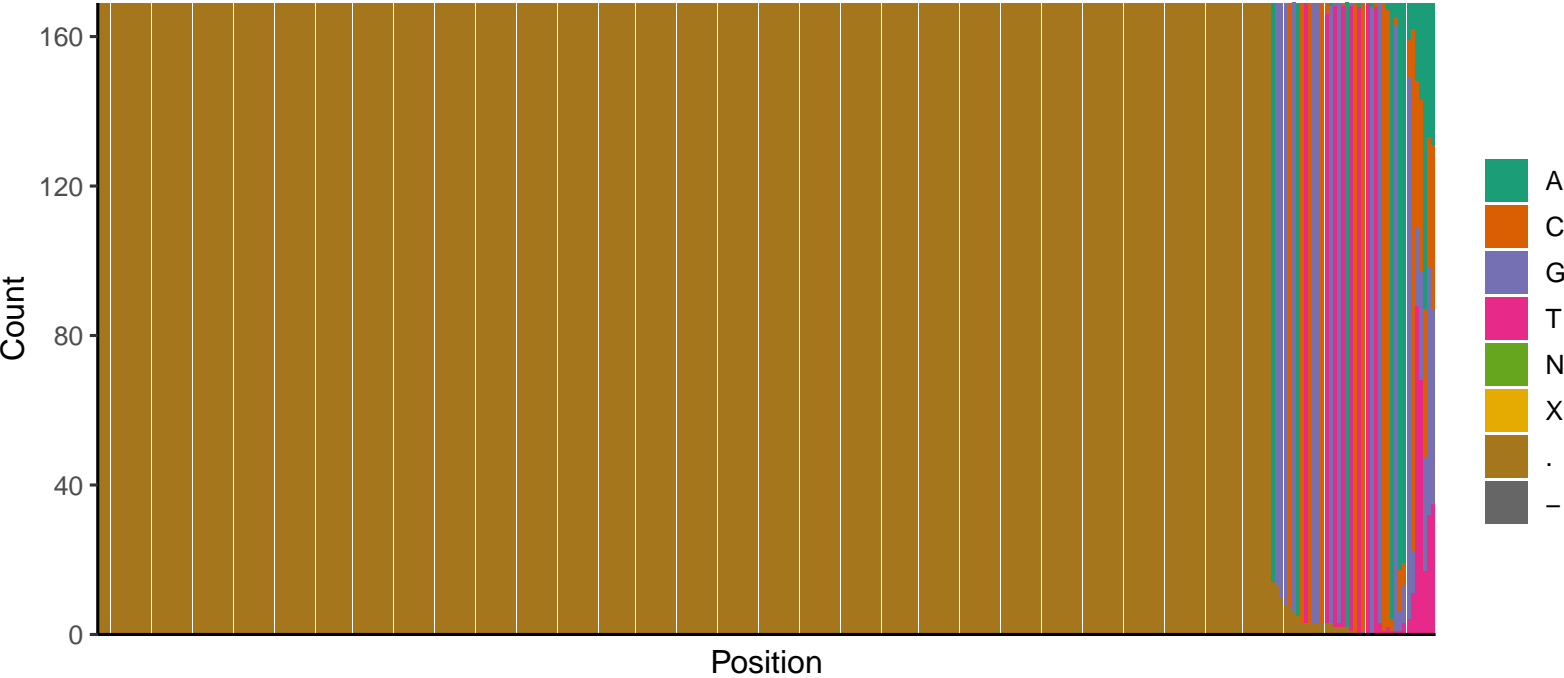
Gene TRBV7-1\*ap01\_G291C\_T296C



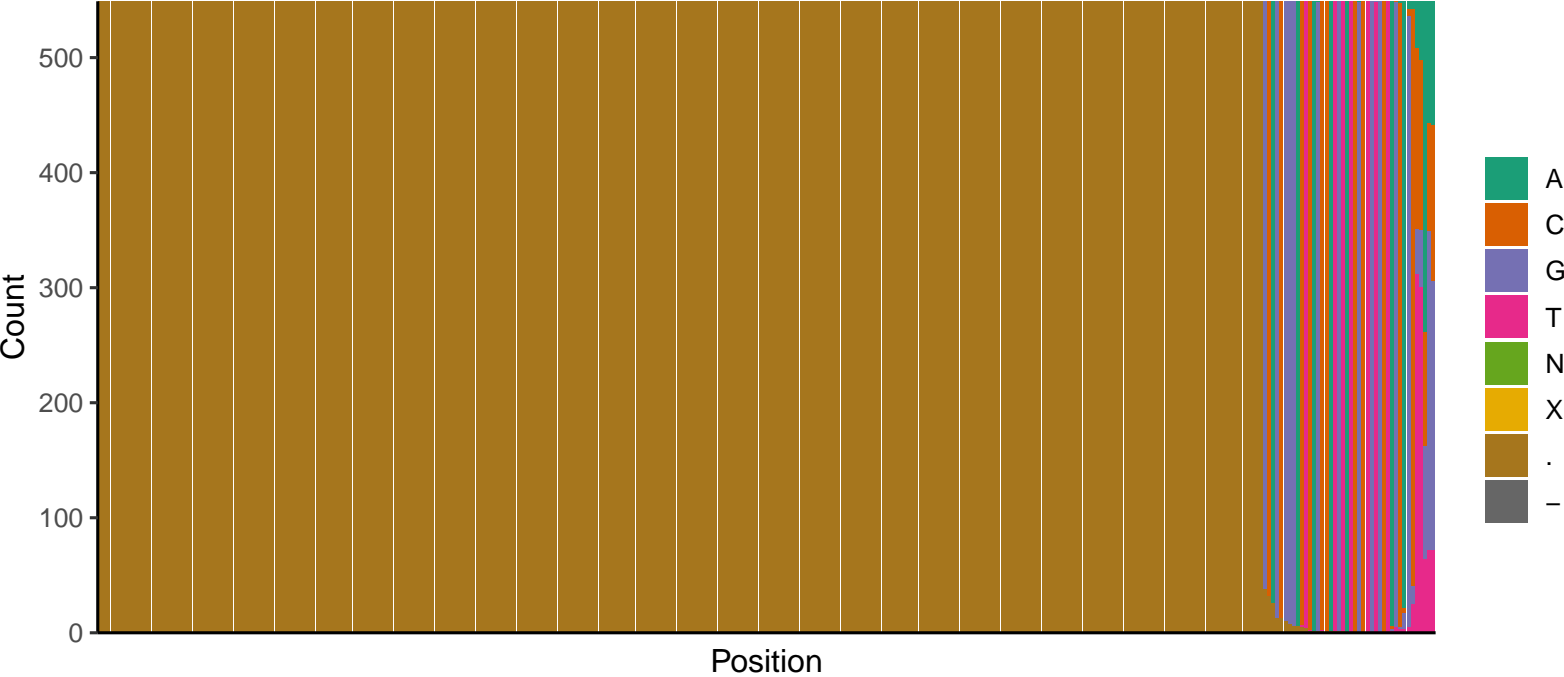
Gene TRBV7-7\*ap01\_C315T



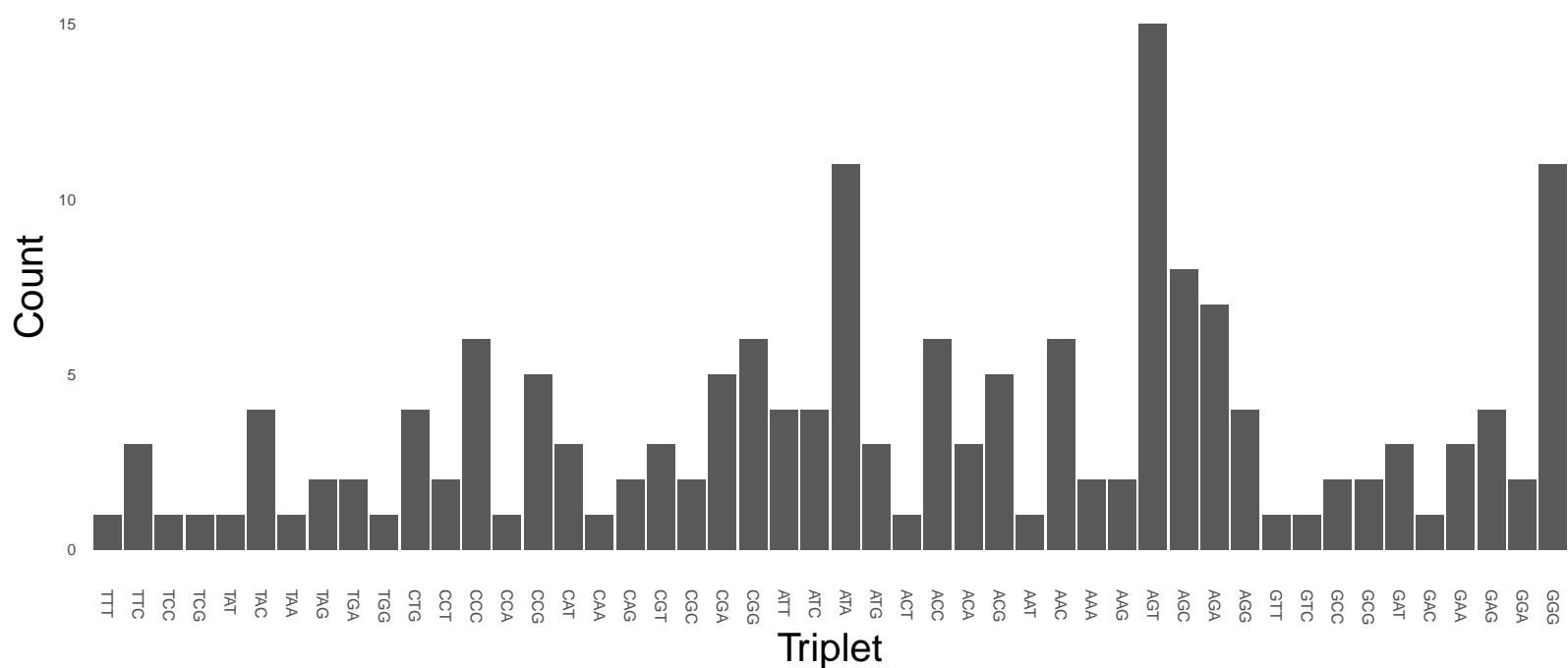
Gene TRBV7-1\*ap01\_G291C\_T296C



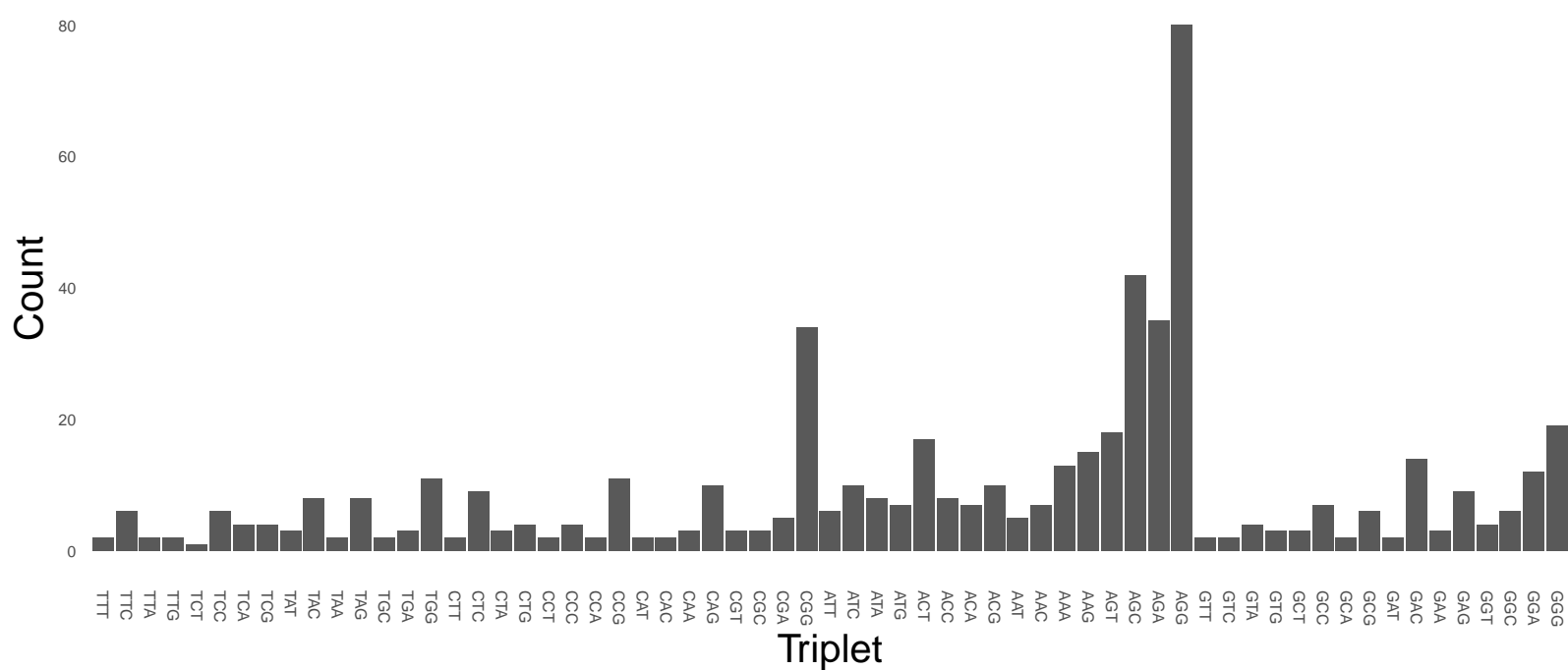
Gene TRBV7-7\*ap01\_C315T



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

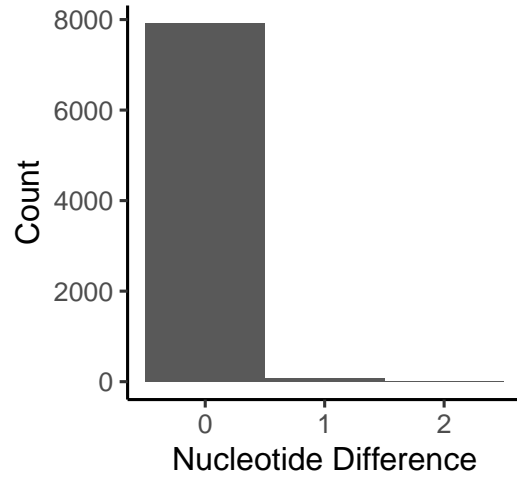


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



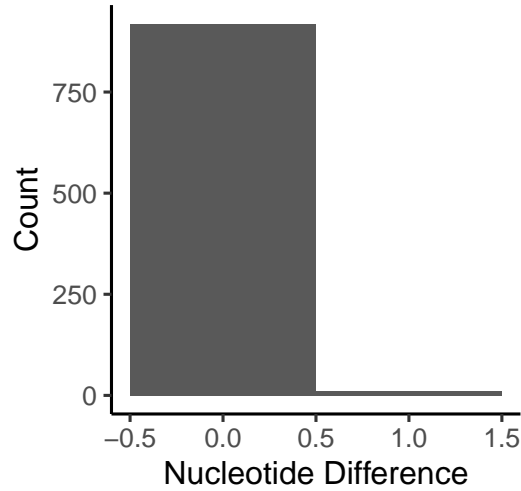
### TRBV20-1\*ap01

8001 sequences assigned  
7915 (98.9%) exact matches, in which:  
7750 unique CDR3  
13 unique J



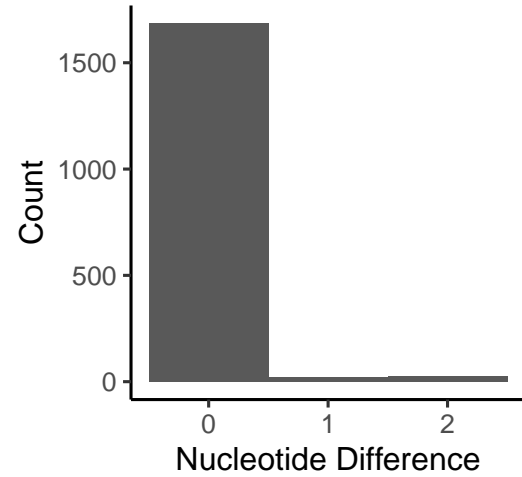
### TRBV10-2\*ap01

929 sequences assigned  
919 (98.9%) exact matches, in which:  
898 unique CDR3  
13 unique J



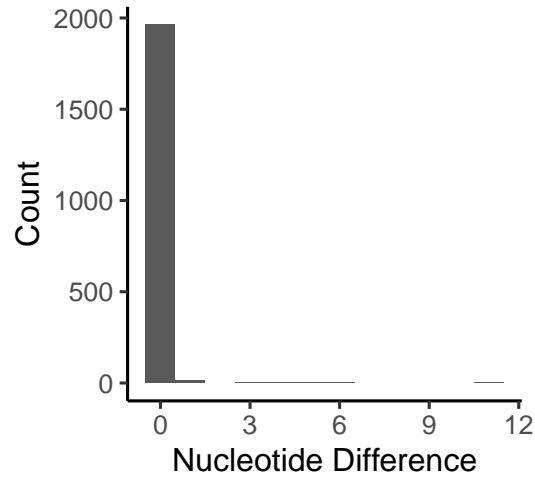
### TRBV13\*ap01

1728 sequences assigned  
1685 (97.5%) exact matches, in which:  
1620 unique CDR3  
13 unique J



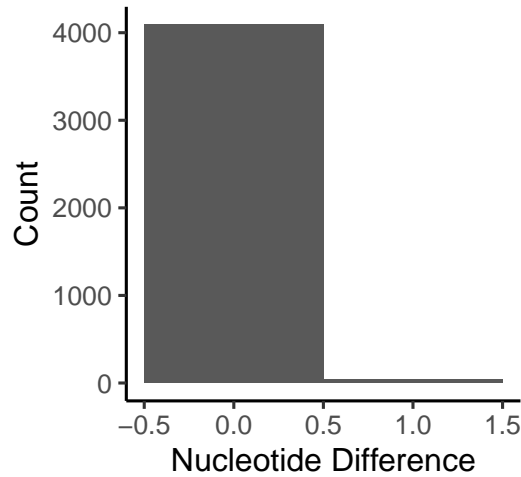
### TRBV10-1\*ap01

1985 sequences assigned  
1963 (98.9%) exact matches, in which:  
1908 unique CDR3  
13 unique J



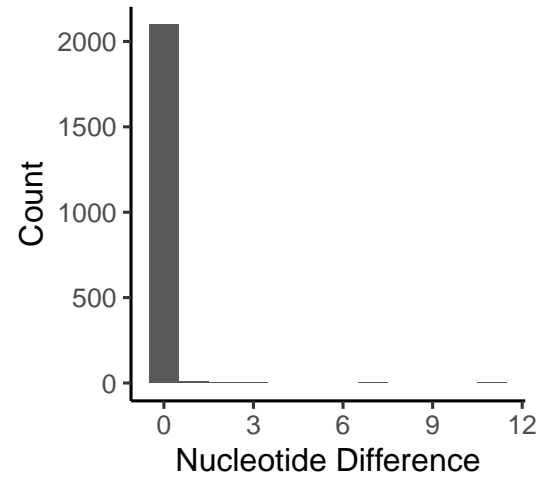
### TRBV10-3\*ap01

4129 sequences assigned  
4091 (99.1%) exact matches, in which:  
3966 unique CDR3  
13 unique J



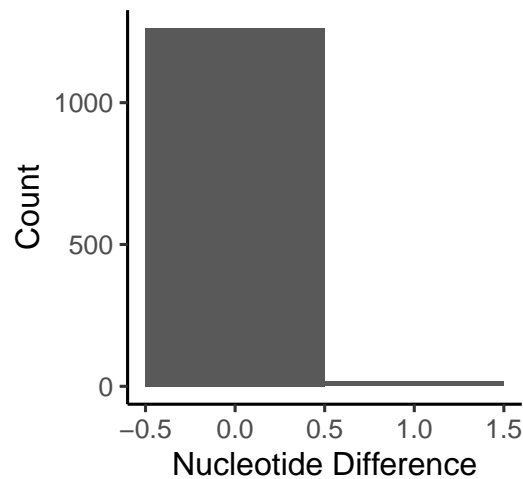
### TRBV14\*ap01

2113 sequences assigned  
2098 (99.3%) exact matches, in which:  
2050 unique CDR3  
13 unique J



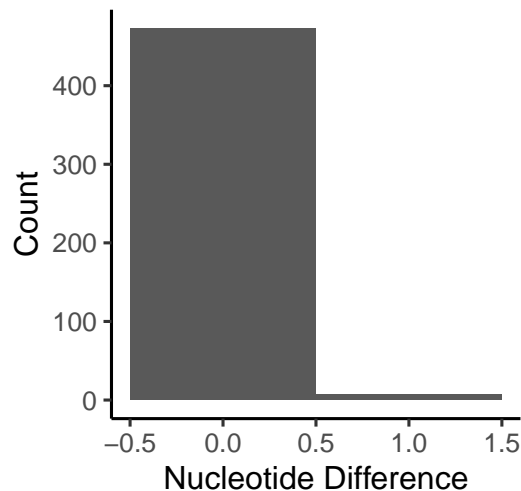
### TRBV20-1\*ap02

1280 sequences assigned  
1263 (98.7%) exact matches, in which:  
1241 unique CDR3  
13 unique J



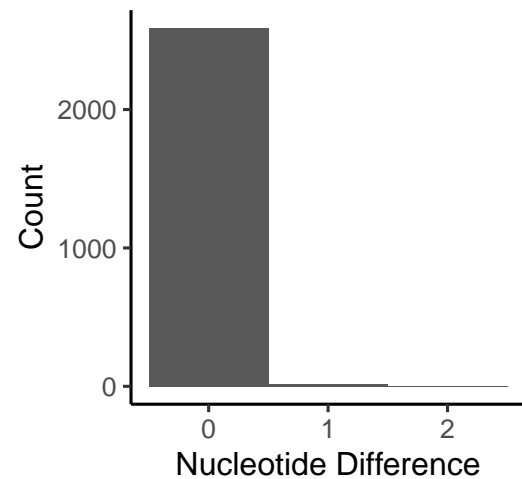
### TRBV1\*ap01

480 sequences assigned  
473 (98.5%) exact matches, in which:  
454 unique CDR3  
13 unique J



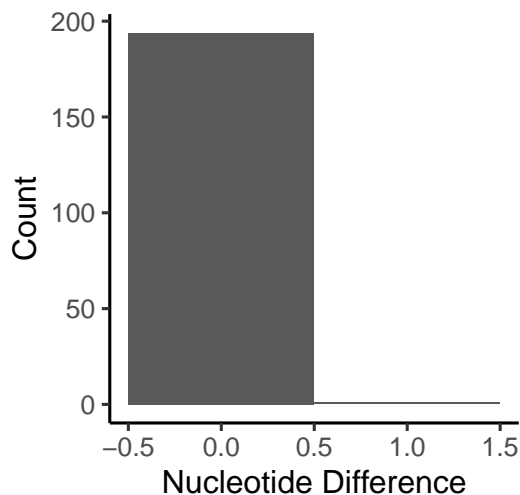
### TRBV15\*ap02

2607 sequences assigned  
2589 (99.3%) exact matches, in which:  
2525 unique CDR3  
13 unique J



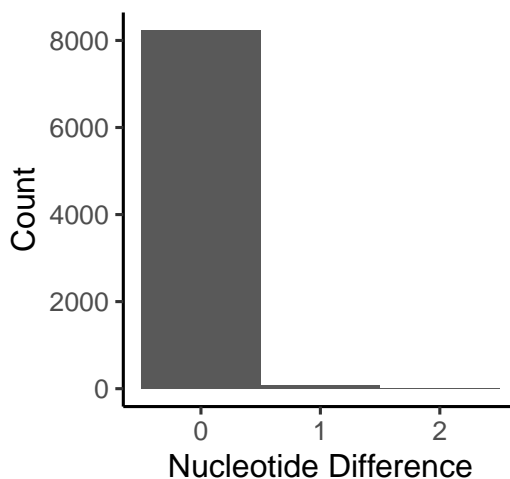
### TRBV16\*ap01

195 sequences assigned  
194 (99.5%) exact matches, in which:  
190 unique CDR3  
13 unique J



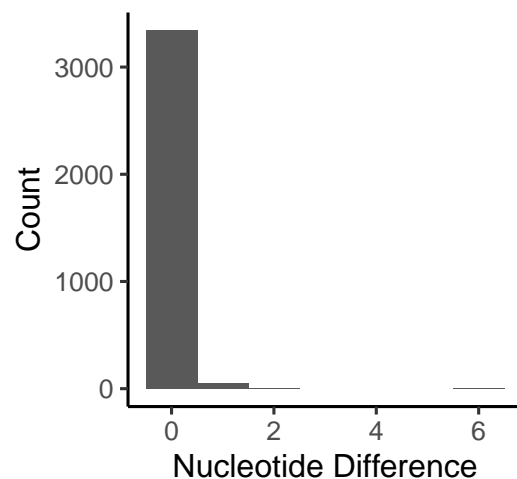
### TRBV2\*ap01

8328 sequences assigned  
8231 (98.8%) exact matches, in which:  
8026 unique CDR3  
13 unique J



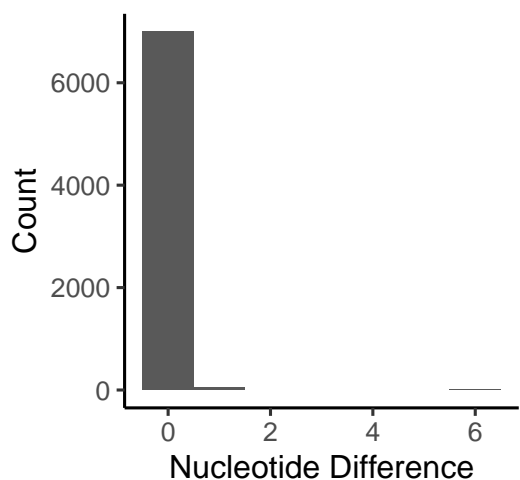
### TRBV30\*ap01

3403 sequences assigned  
3342 (98.2%) exact matches, in which:  
3273 unique CDR3  
13 unique J



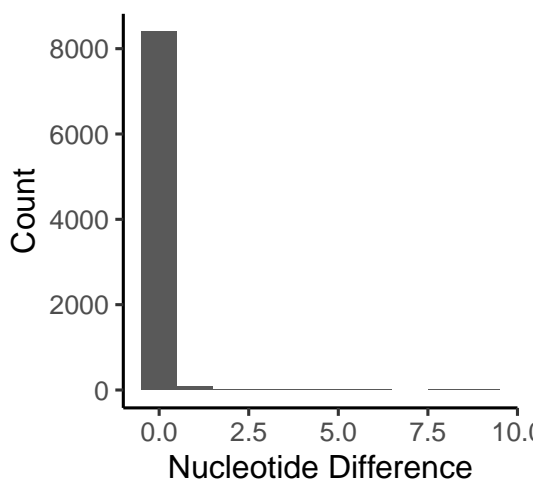
### TRBV18\*ap01

7044 sequences assigned  
6997 (99.3%) exact matches, in which:  
6897 unique CDR3  
13 unique J



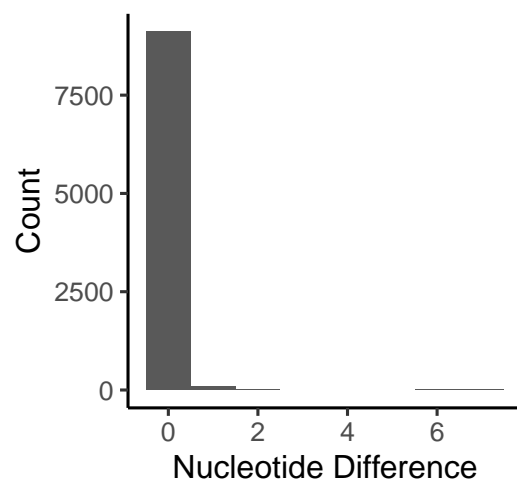
### TRBV27\*ap01

8490 sequences assigned  
8397 (98.9%) exact matches, in which:  
8169 unique CDR3  
13 unique J



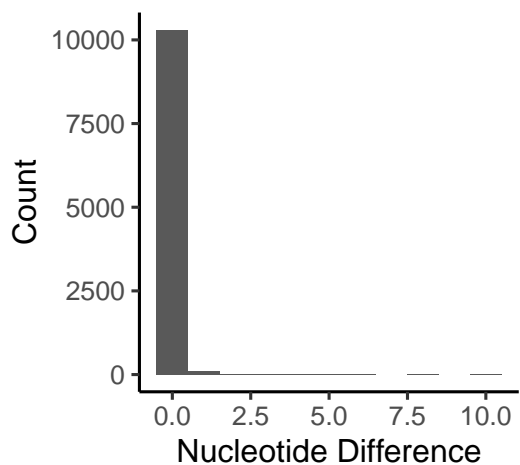
### TRBV9\*ap01

9196 sequences assigned  
9113 (99.1%) exact matches, in which:  
8928 unique CDR3  
13 unique J



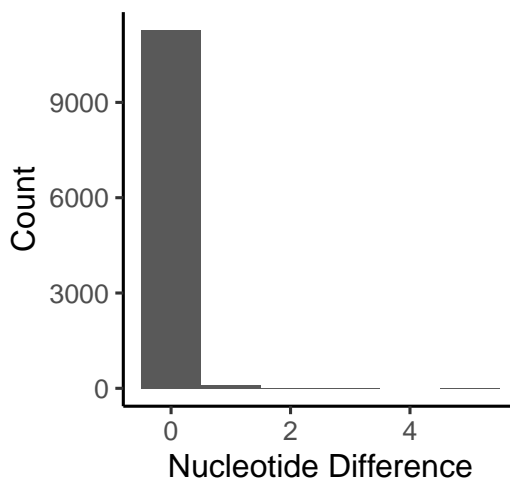
### TRBV19\*ap01

10427 sequences assigned  
10302 (98.8%) exact matches, in which:  
10123 unique CDR3  
13 unique J



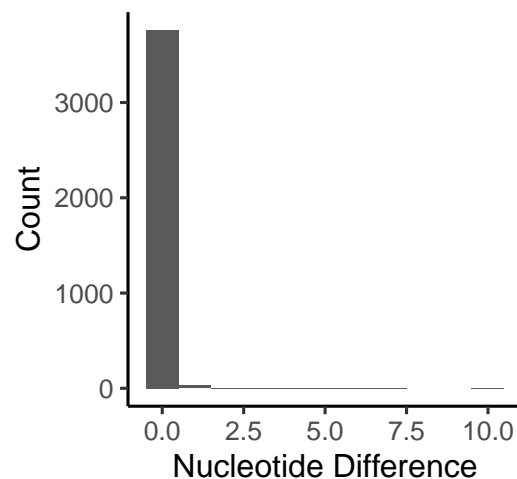
### TRBV28\*ap01

11389 sequences assigned  
11277 (99%) exact matches, in which:  
11003 unique CDR3  
13 unique J



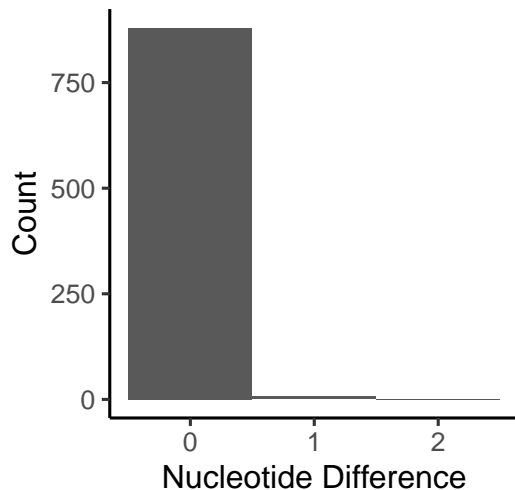
### TRBV21-1\*ap01

3812 sequences assigned  
3761 (98.7%) exact matches, in which:  
3697 unique CDR3  
13 unique J



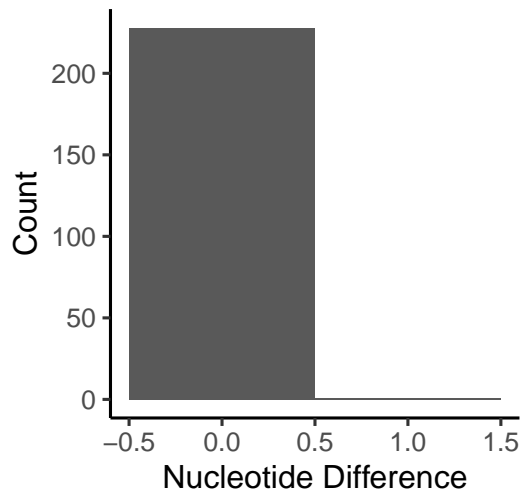
### TRBV11-1\*ap01

888 sequences assigned  
880 (99.1%) exact matches, in which:  
873 unique CDR3  
13 unique J



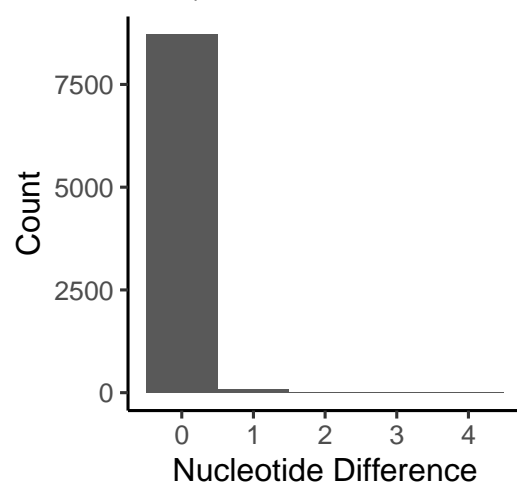
### TRBV12-1\*ap01

229 sequences assigned  
228 (99.6%) exact matches, in which:  
223 unique CDR3  
12 unique J



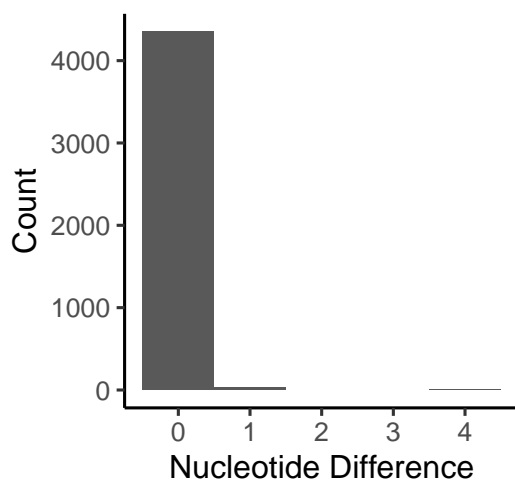
### TRBV12-34\*ap01

8814 sequences assigned  
8717 (98.9%) exact matches, in which:  
8513 unique CDR3  
13 unique J



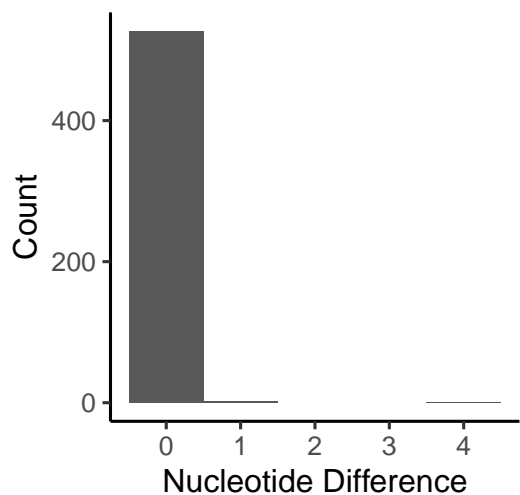
### TRBV11-2\*ap01

4383 sequences assigned  
4351 (99.3%) exact matches, in which:  
4287 unique CDR3  
13 unique J



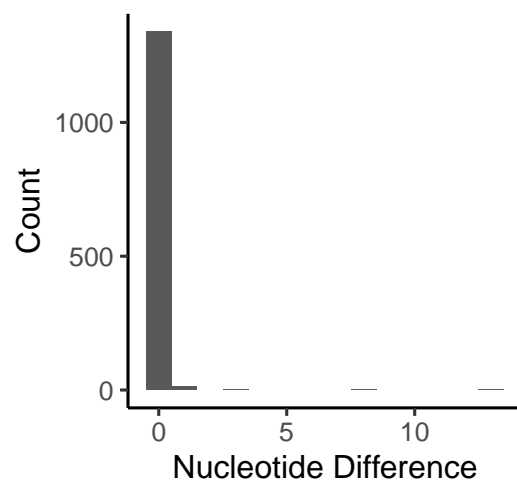
### TRBV12-2\*ap01

530 sequences assigned  
527 (99.4%) exact matches, in which:  
512 unique CDR3  
13 unique J



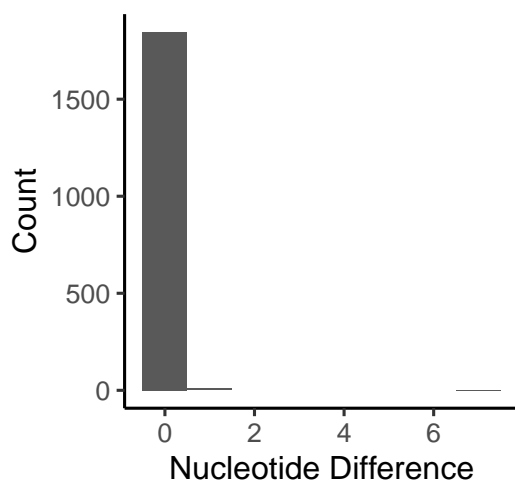
### TRBV23-1\*ap01

1356 sequences assigned  
1339 (98.7%) exact matches, in which:  
1313 unique CDR3  
13 unique J



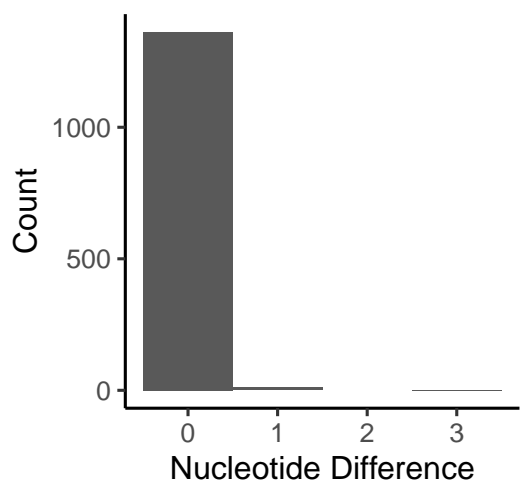
### TRBV11-3\*ap01

1856 sequences assigned  
1846 (99.5%) exact matches, in which:  
1824 unique CDR3  
13 unique J



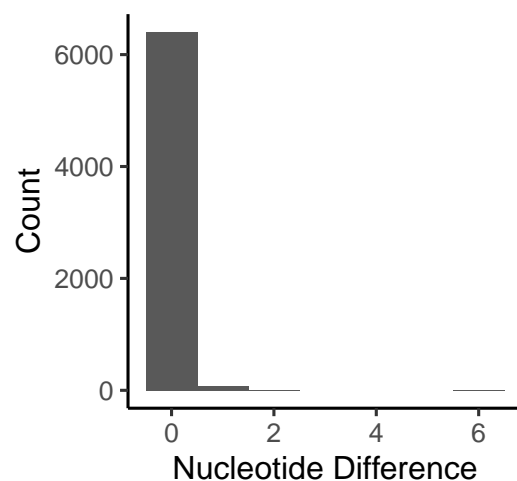
### TRBV12-5\*ap01

1373 sequences assigned  
1362 (99.2%) exact matches, in which:  
1342 unique CDR3  
13 unique J



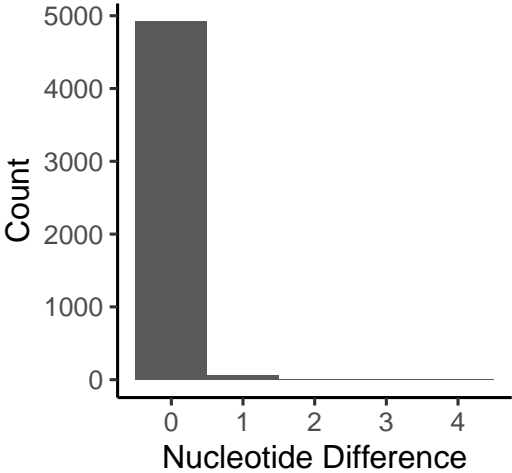
### TRBV3-12\*ap01

6483 sequences assigned  
6403 (98.8%) exact matches, in which:  
6293 unique CDR3  
13 unique J



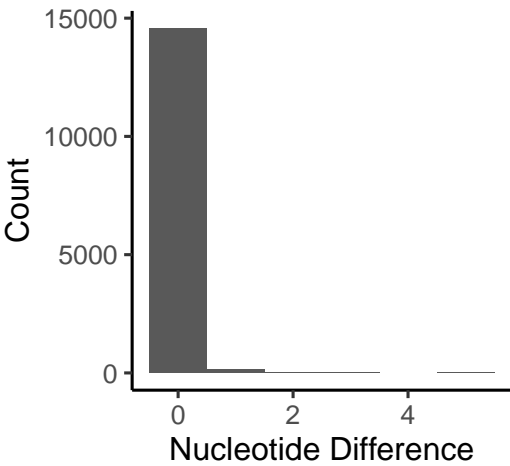
TRBV4-1\*ap01

4981 sequences assigned  
4922 (98.8%) exact matches, in which:  
4791 unique CDR3  
13 unique J



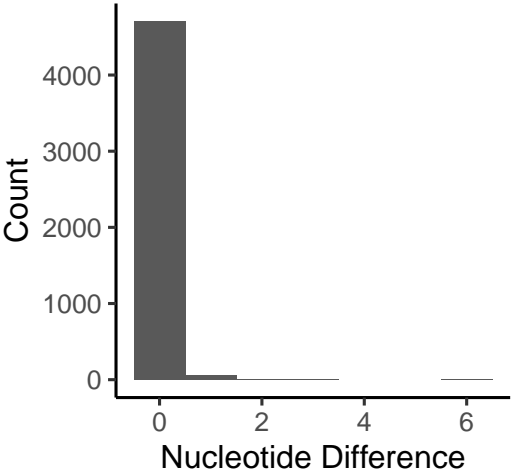
TRBV5-1\*ap01

14713 sequences assigned  
14577 (99.1%) exact matches, in which:  
14140 unique CDR3  
14 unique J



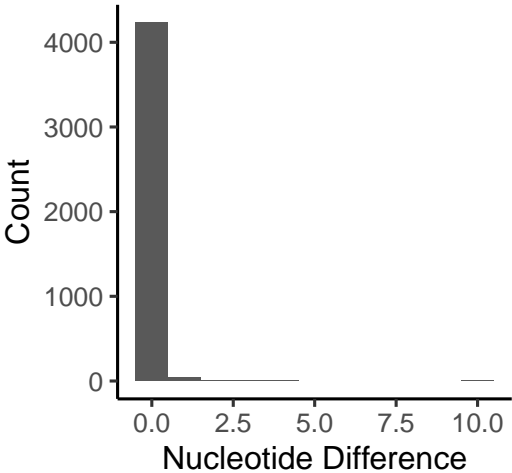
TRBV5-4\*ap01

4770 sequences assigned  
4704 (98.6%) exact matches, in which:  
4566 unique CDR3  
13 unique J



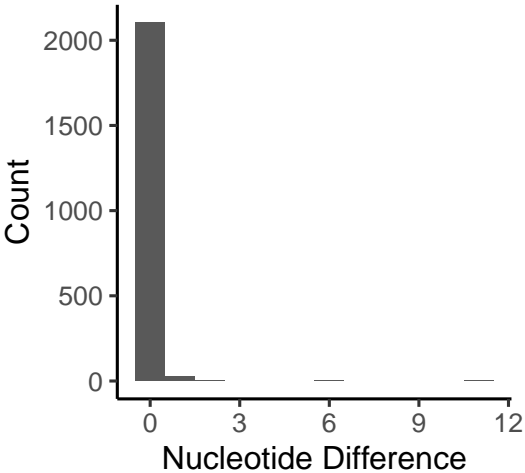
TRBV24-1\*ap01

4278 sequences assigned  
4231 (98.9%) exact matches, in which:  
4129 unique CDR3  
13 unique J



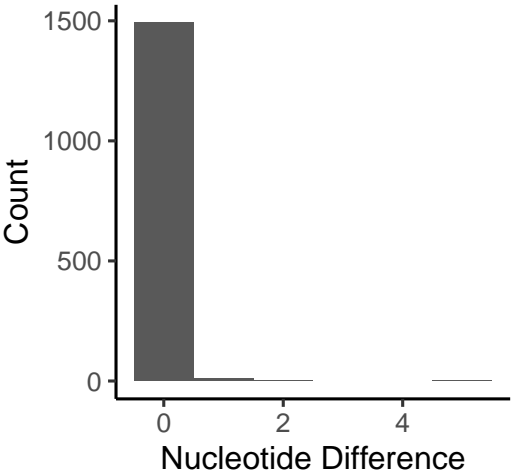
TRBV25-1\*ap01

2138 sequences assigned  
2103 (98.4%) exact matches, in which:  
2049 unique CDR3  
13 unique J



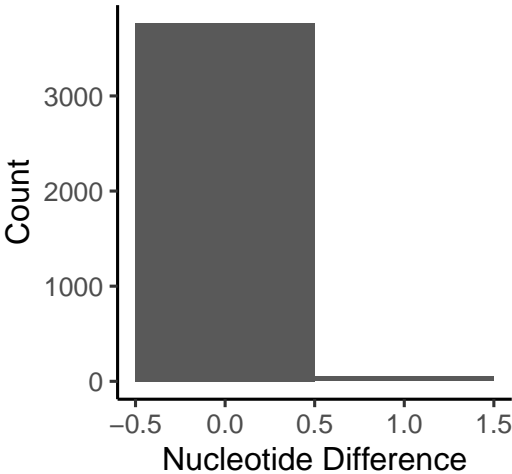
TRBV5-5\*ap01

1505 sequences assigned  
1492 (99.1%) exact matches, in which:  
1479 unique CDR3  
13 unique J



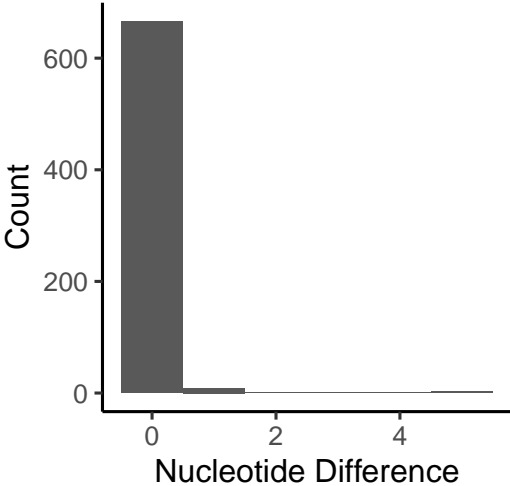
TRBV4-2\*ap01

3817 sequences assigned  
3766 (98.7%) exact matches, in which:  
3656 unique CDR3  
13 unique J



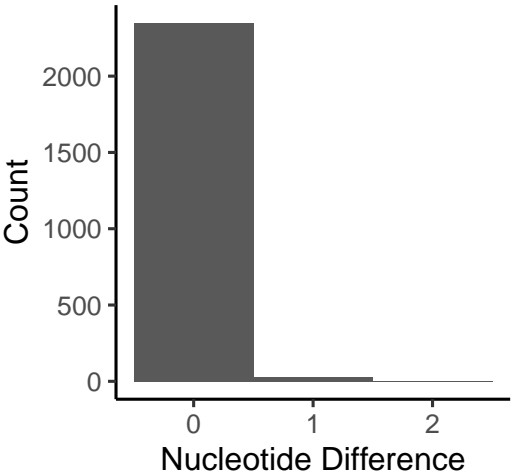
TRBV5-3\*ap01

680 sequences assigned  
666 (97.9%) exact matches, in which:  
652 unique CDR3  
13 unique J



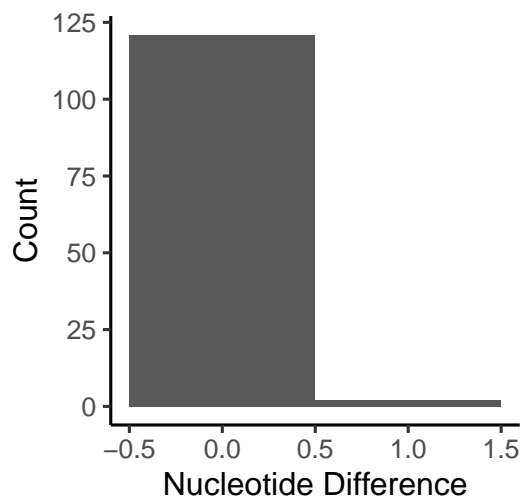
TRBV5-6\*ap01

2379 sequences assigned  
2348 (98.7%) exact matches, in which:  
2269 unique CDR3  
13 unique J



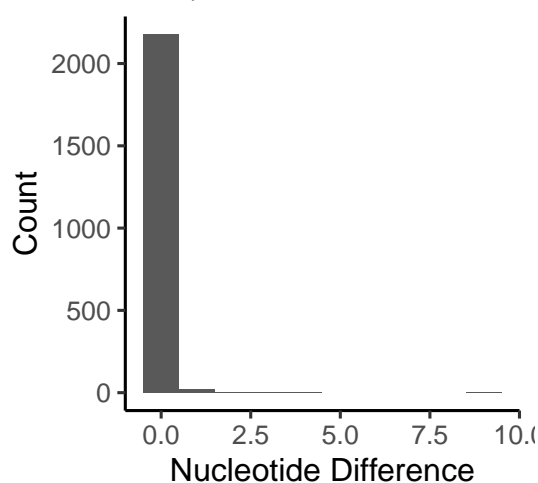
### TRBV5-7\*ap01

123 sequences assigned  
121 (98.4%) exact matches, in which:  
116 unique CDR3  
12 unique J



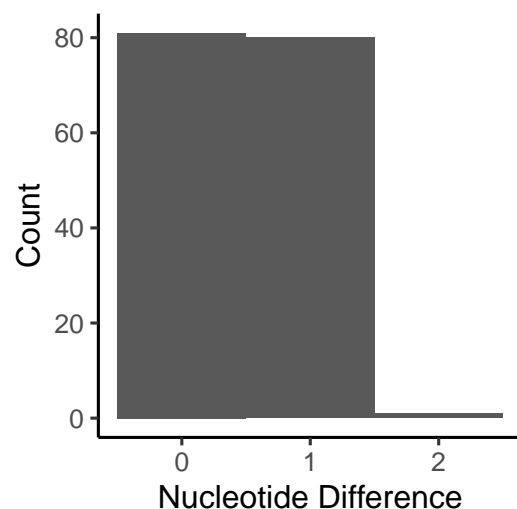
### TRBV6-4\*ap01

2202 sequences assigned  
2177 (98.9%) exact matches, in which:  
2130 unique CDR3  
13 unique J



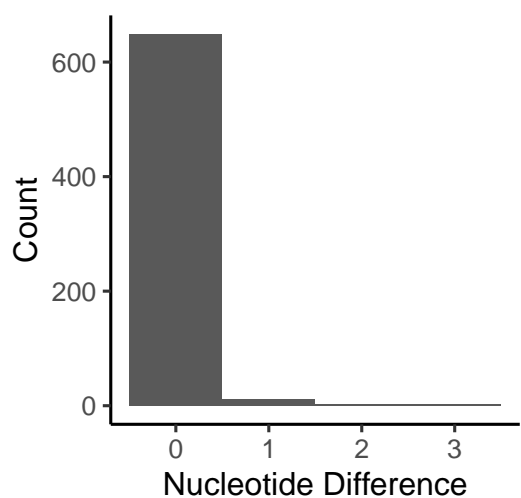
### TRBV6-9\*ap01

162 sequences assigned  
81 (50%) exact matches, in which:  
74 unique CDR3  
12 unique J



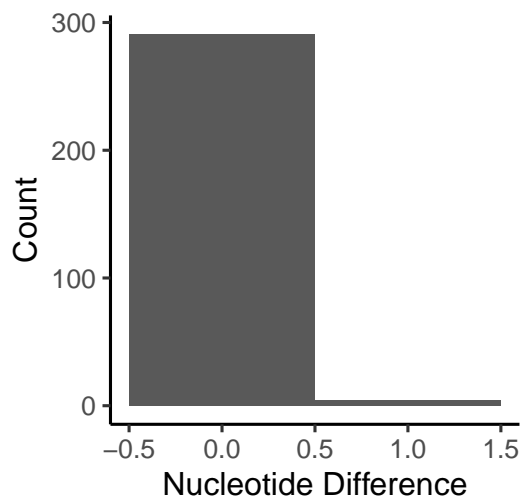
### TRBV5-8\*ap01

664 sequences assigned  
649 (97.7%) exact matches, in which:  
632 unique CDR3  
13 unique J



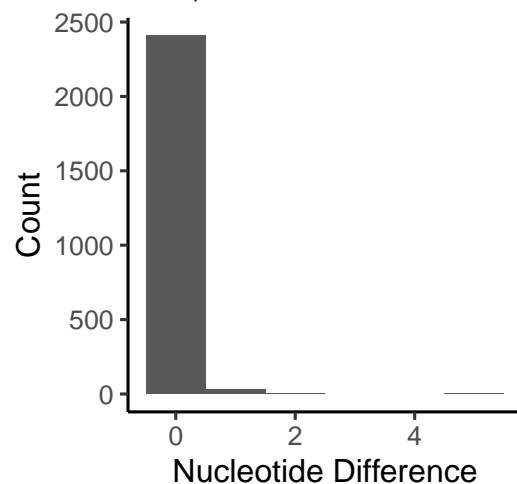
### TRBV6-7\*ap01

295 sequences assigned  
291 (98.6%) exact matches, in which:  
284 unique CDR3  
13 unique J



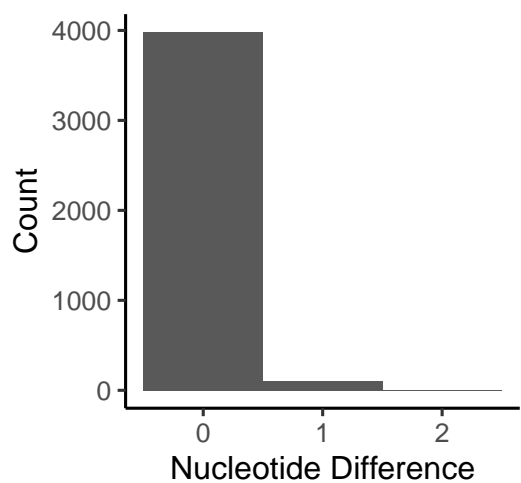
### TRBV6-23\*ap01

2440 sequences assigned  
2408 (98.7%) exact matches, in which:  
2318 unique CDR3  
13 unique J



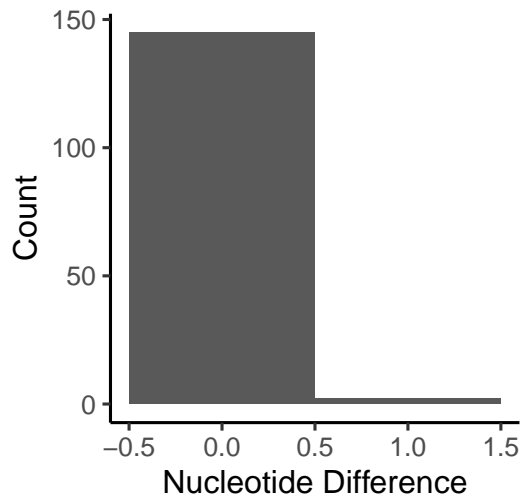
### TRBV6-1\*ap01

4088 sequences assigned  
3982 (97.4%) exact matches, in which:  
3857 unique CDR3  
13 unique J



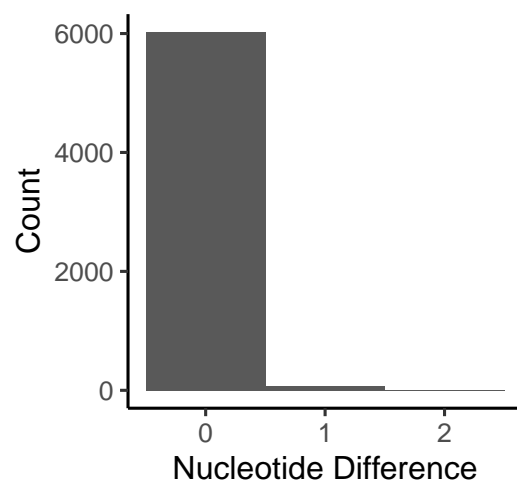
### TRBV6-8\*ap01

147 sequences assigned  
145 (98.6%) exact matches, in which:  
133 unique CDR3  
13 unique J



### TRBV6-56\*ap01

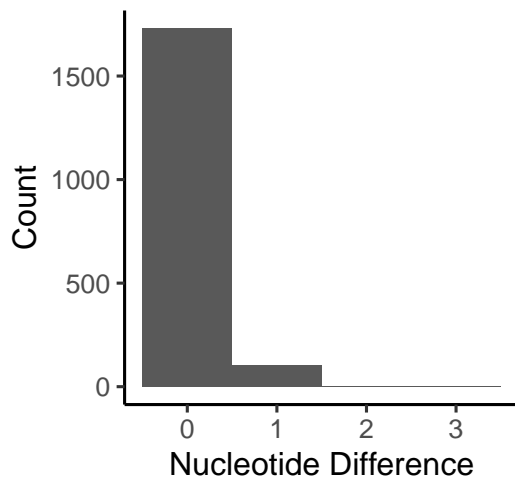
6095 sequences assigned  
6025 (98.9%) exact matches, in which:  
5810 unique CDR3  
13 unique J





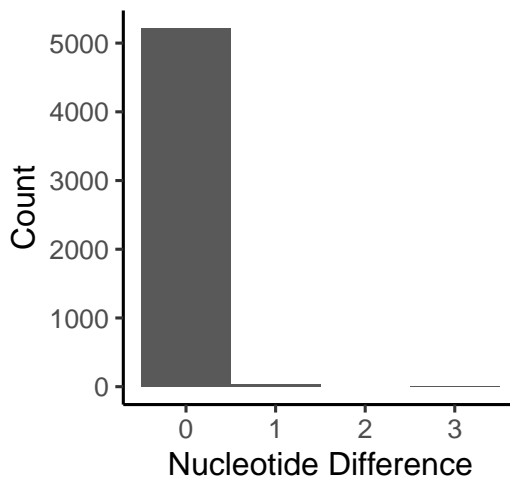
### TRBV6-56\*ap02

1836 sequences assigned  
1730 (94.2%) exact matches, in which:  
1676 unique CDR3  
13 unique J



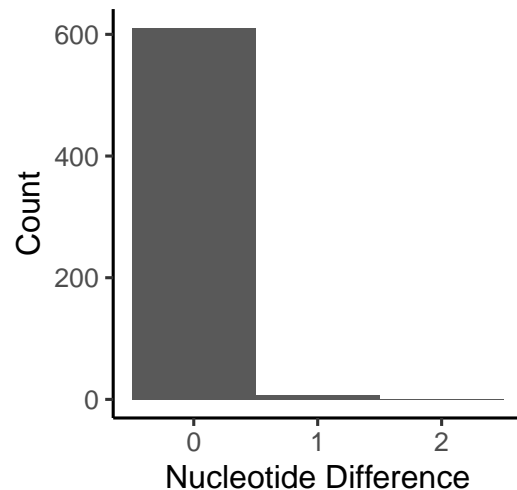
### TRBV7-3\*ap01

5251 sequences assigned  
5214 (99.3%) exact matches, in which:  
5119 unique CDR3  
13 unique J



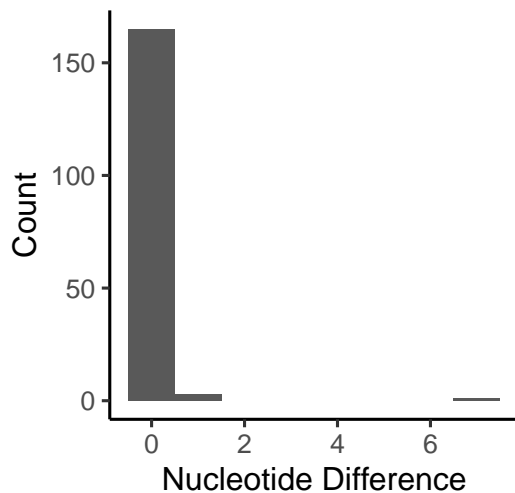
### TRBV7-7\*ap01

619 sequences assigned  
611 (98.7%) exact matches, in which:  
598 unique CDR3  
13 unique J



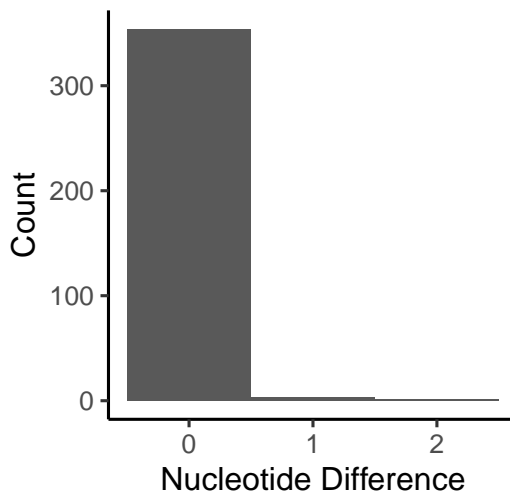
### TRBV7-1\*ap01\_G291C\_

169 sequences assigned  
165 (97.6%) exact matches, in which:  
162 unique CDR3  
12 unique J



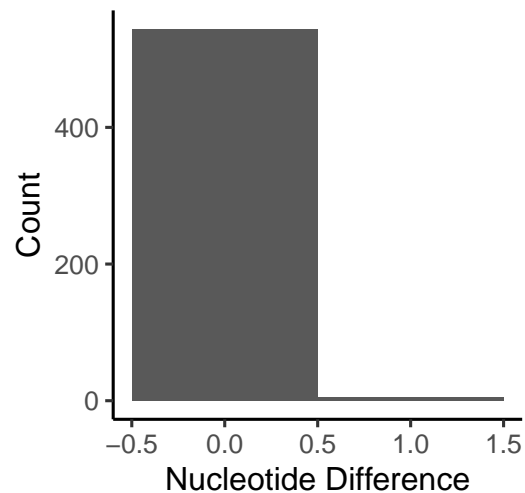
### TRBV7-4\*ap01

358 sequences assigned  
354 (98.9%) exact matches, in which:  
346 unique CDR3  
13 unique J



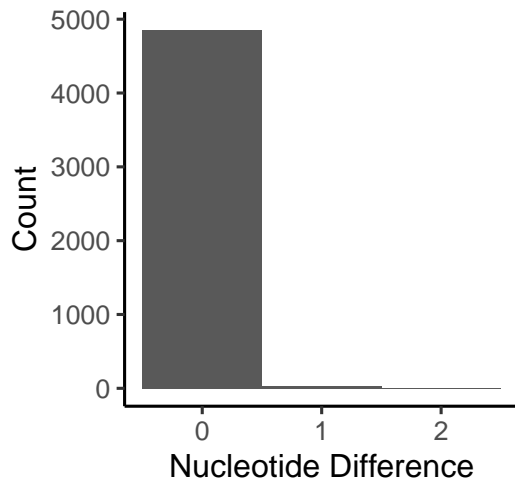
### TRBV7-7\*ap01\_C315T

549 sequences assigned  
544 (99.1%) exact matches, in which:  
533 unique CDR3  
13 unique J



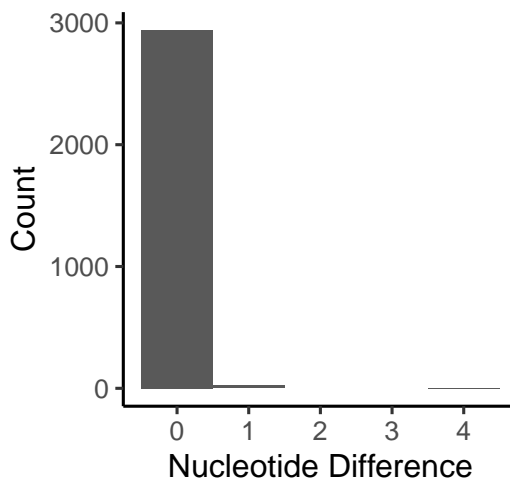
### TRBV7-2\*ap01

4886 sequences assigned  
4853 (99.3%) exact matches, in which:  
4747 unique CDR3  
13 unique J



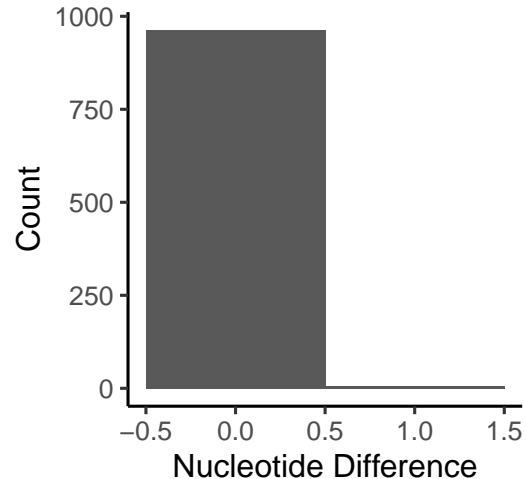
### TRBV7-6\*ap01

2964 sequences assigned  
2941 (99.2%) exact matches, in which:  
2859 unique CDR3  
13 unique J



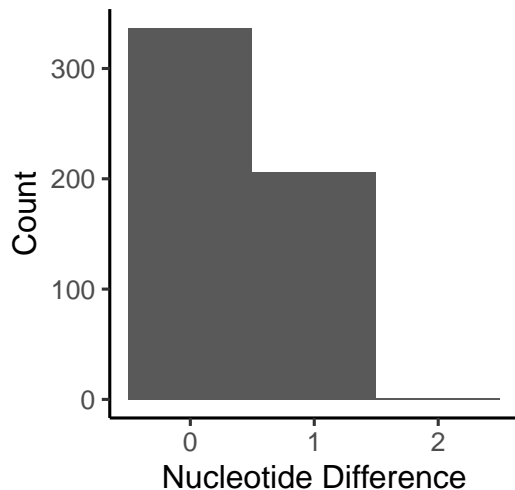
### TRBV7-8\*ap01

970 sequences assigned  
963 (99.3%) exact matches, in which:  
951 unique CDR3  
13 unique J



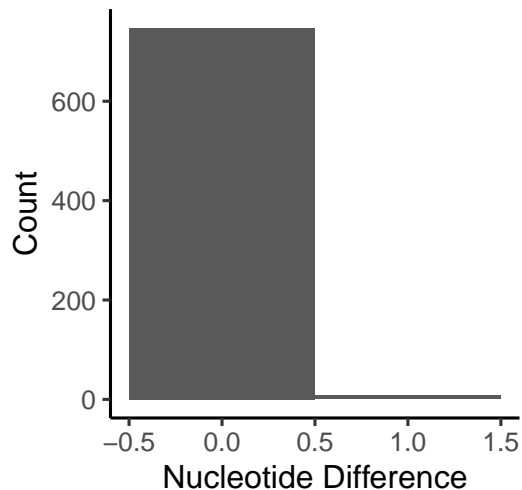
### TRBV7-8\*ap03

544 sequences assigned  
337 (61.9%) exact matches, in which:  
329 unique CDR3  
13 unique J



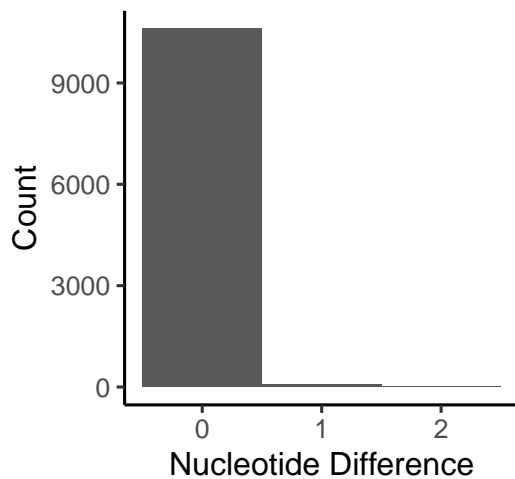
### TRBV29-1\*ap02

756 sequences assigned  
748 (98.9%) exact matches, in which:  
734 unique CDR3  
13 unique J



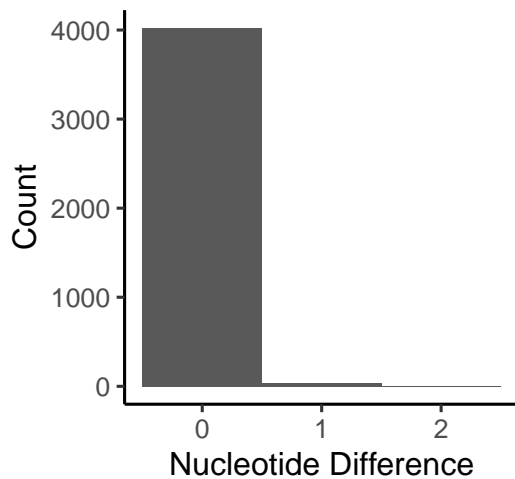
### TRBV7-9\*ap01

10681 sequences assigned  
10606 (99.3%) exact matches, in which:  
10391 unique CDR3  
13 unique J

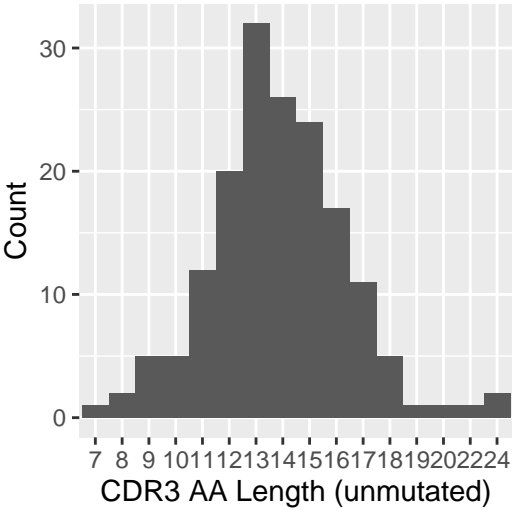


### TRBV29-1\*ap01

4063 sequences assigned  
4022 (99%) exact matches, in which:  
3922 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

