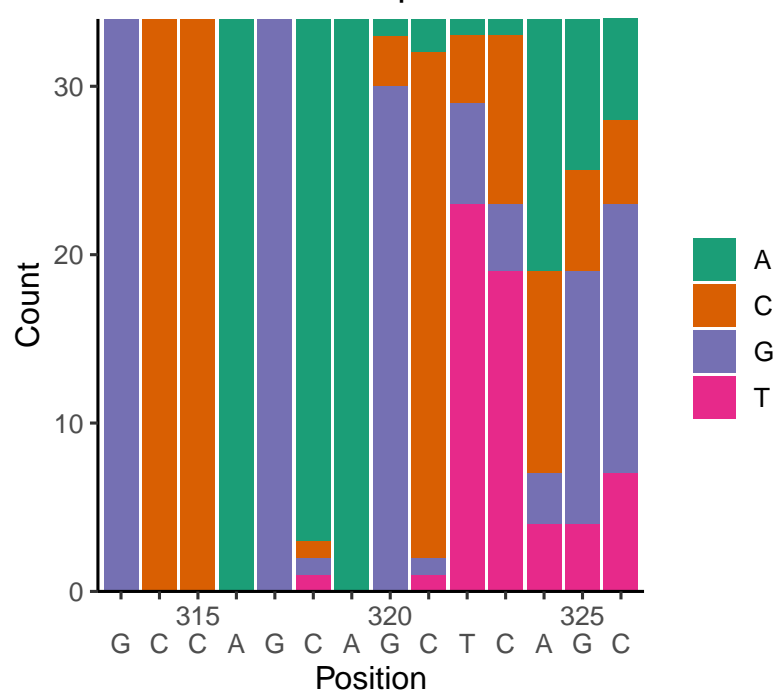
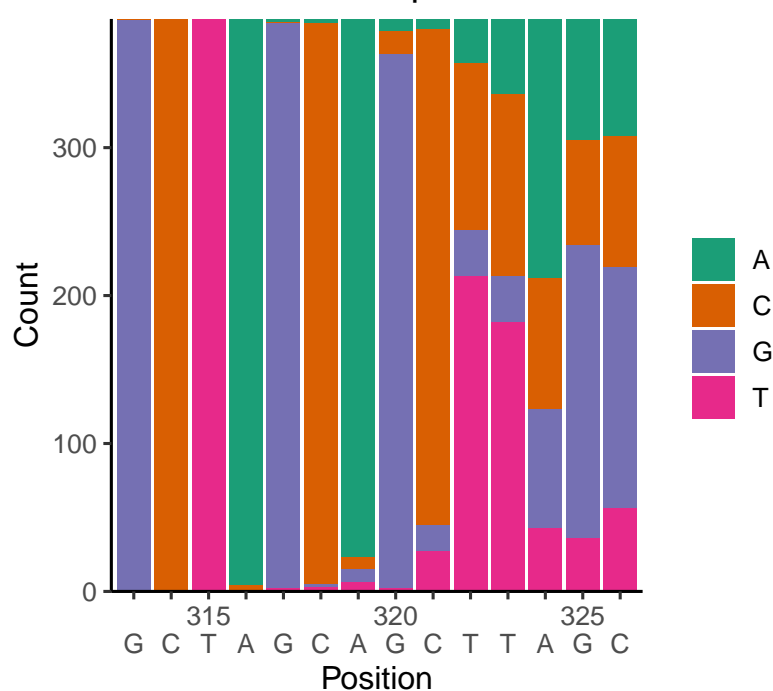


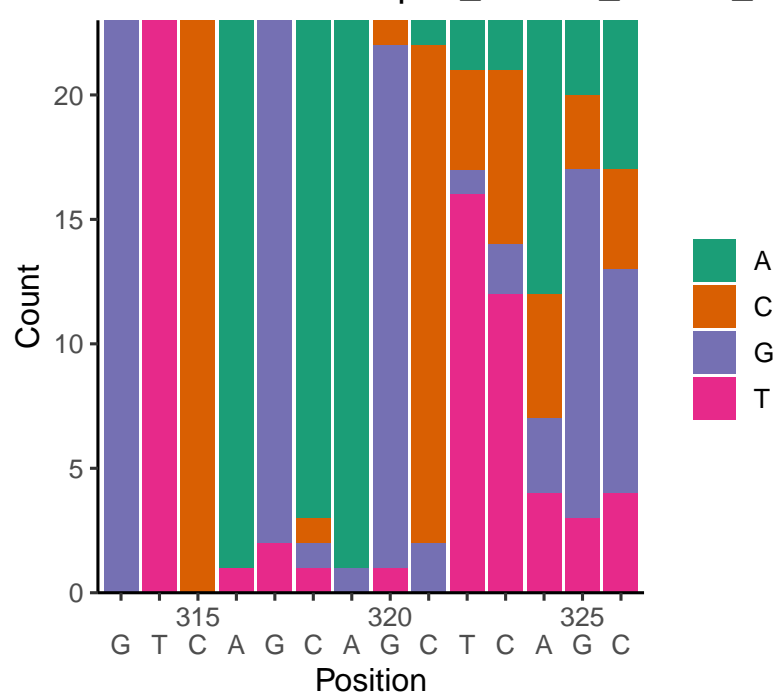
Gene TRBV7-1\*ap01\_G291C\_T296C



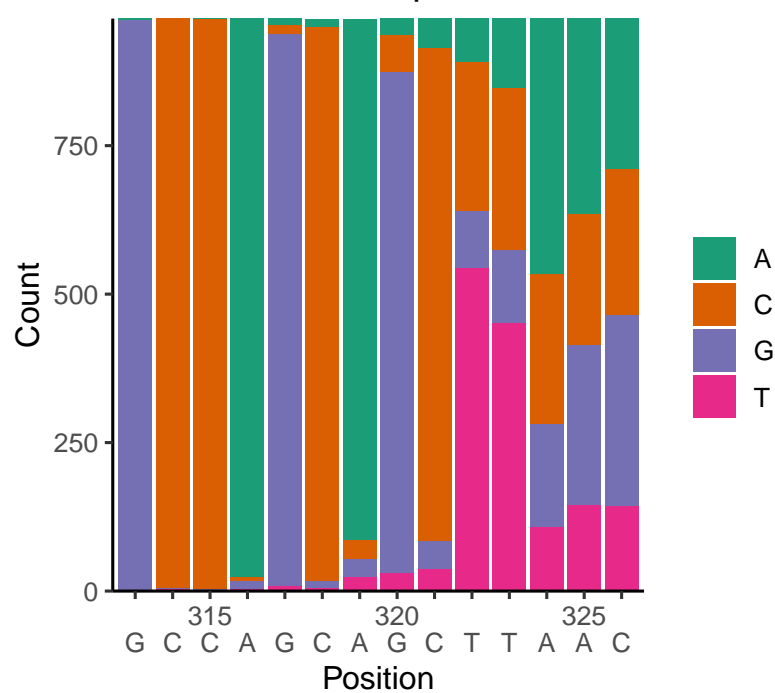
Gene TRBV7-7\*ap01\_C315T



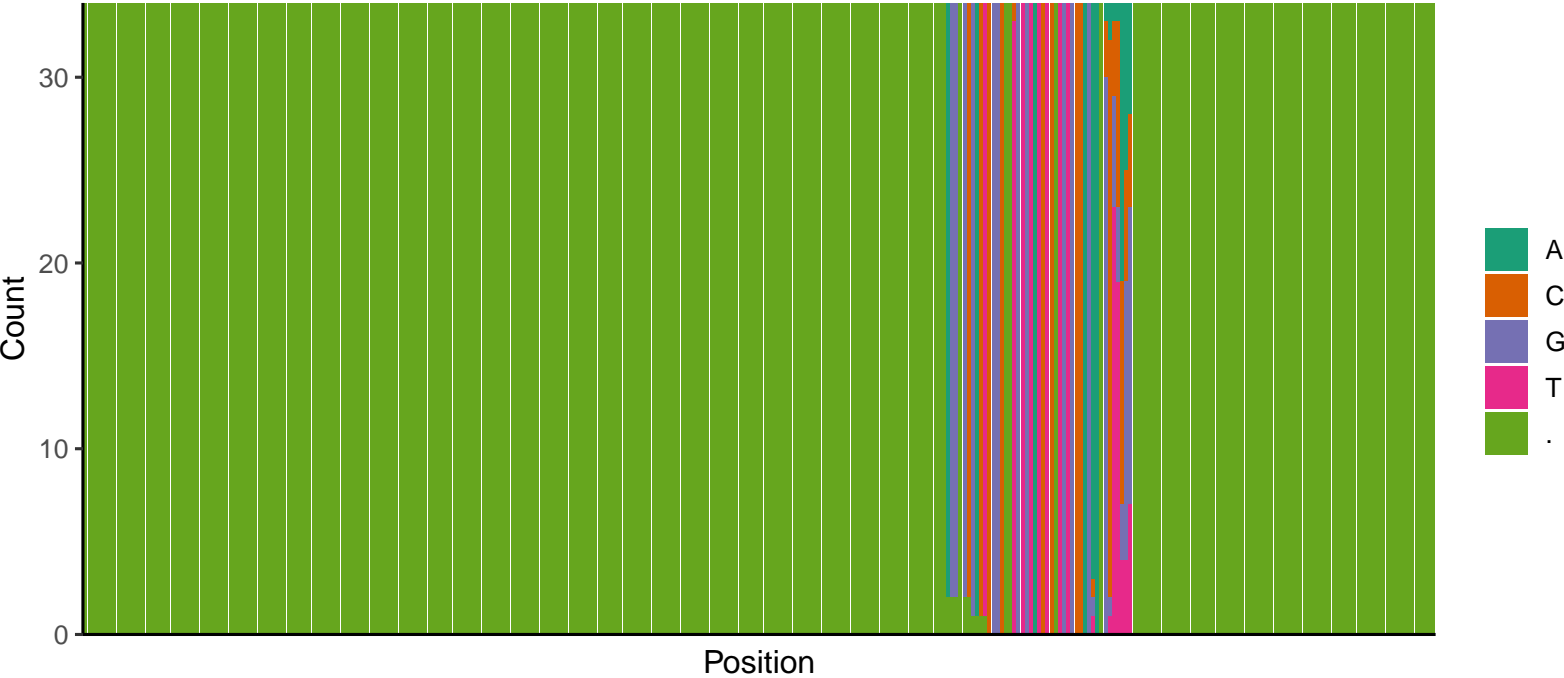
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-3\*ap01\_G292T



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



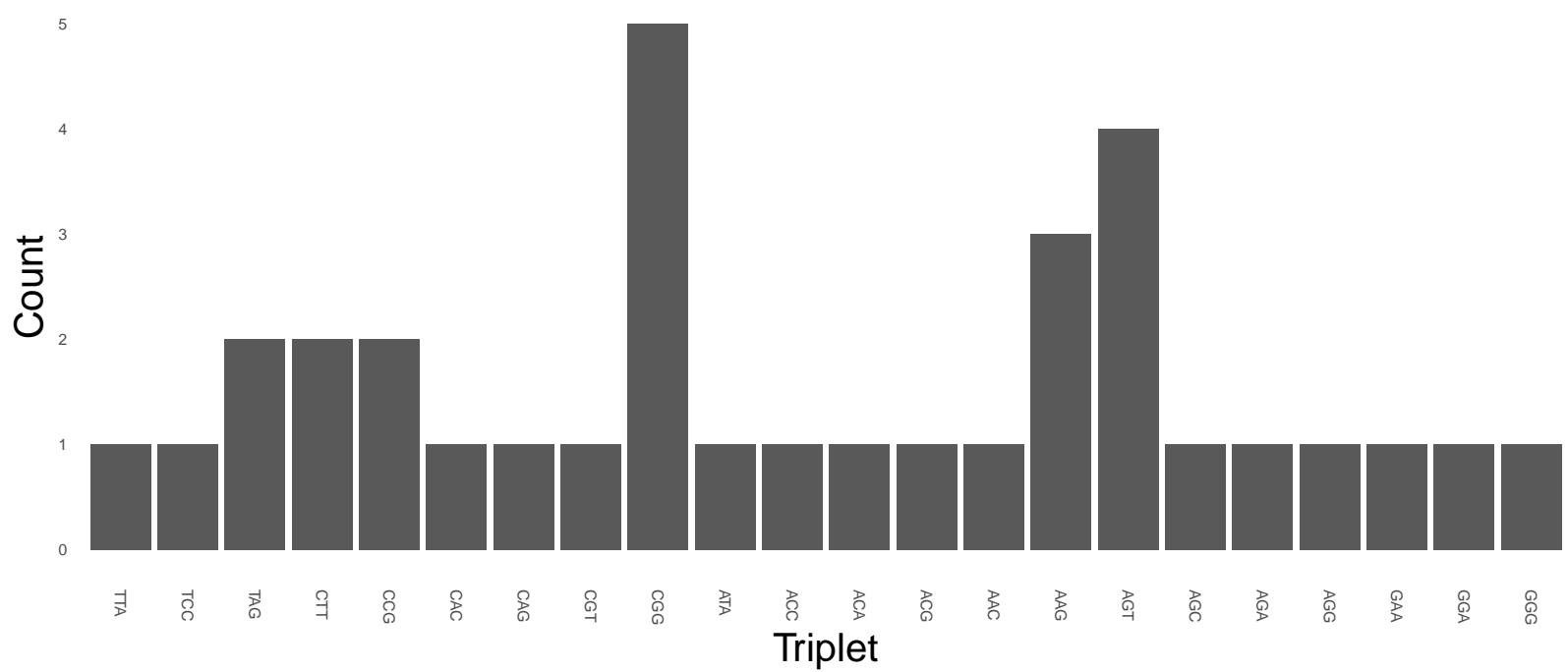
Gene TRBV7-3\*ap01\_G292T



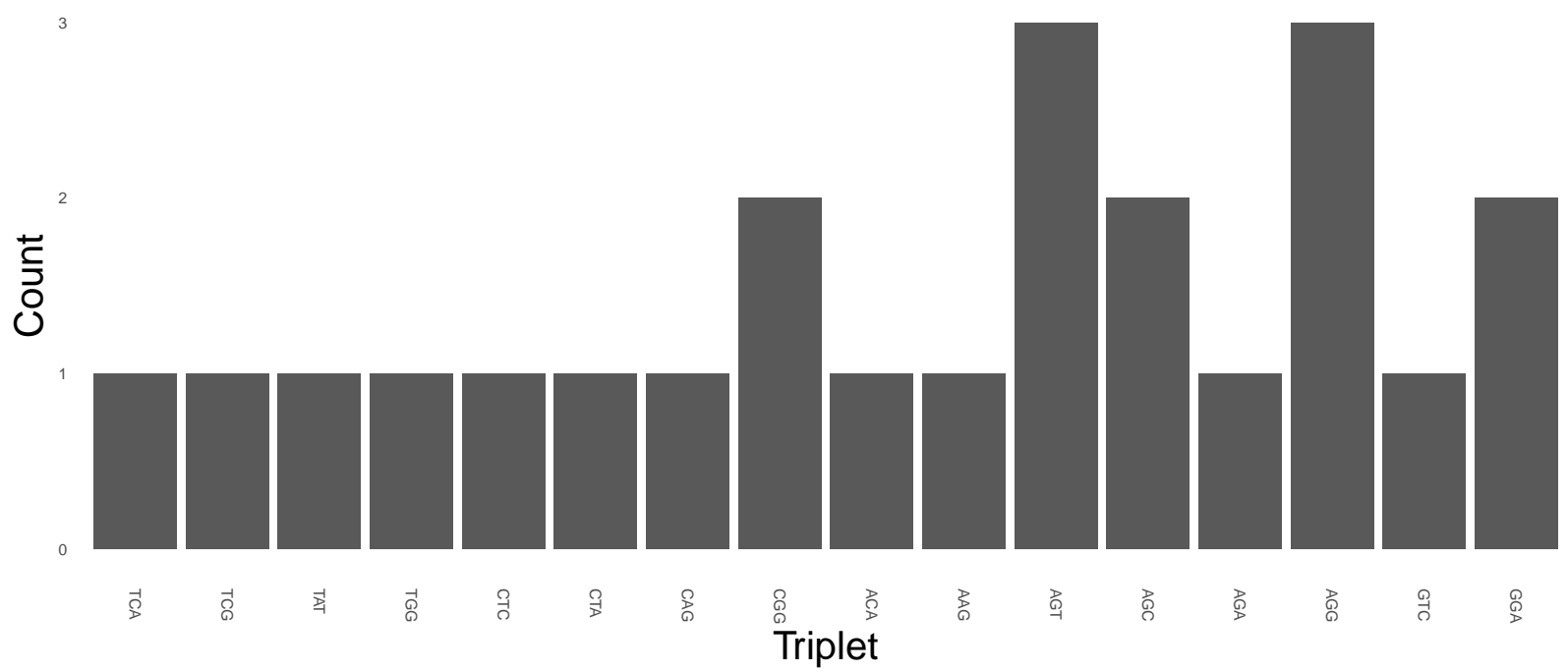
Gene TRBV7-7\*ap01\_C315T



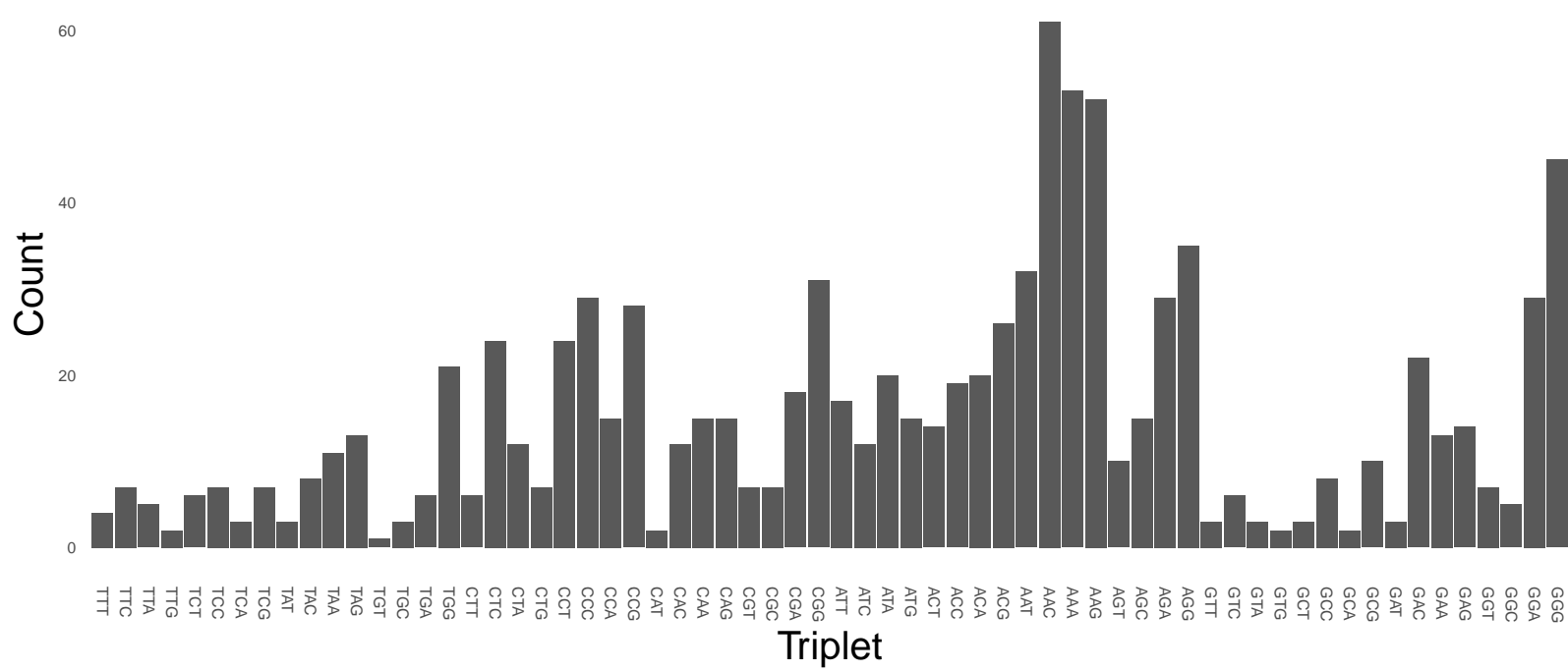
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



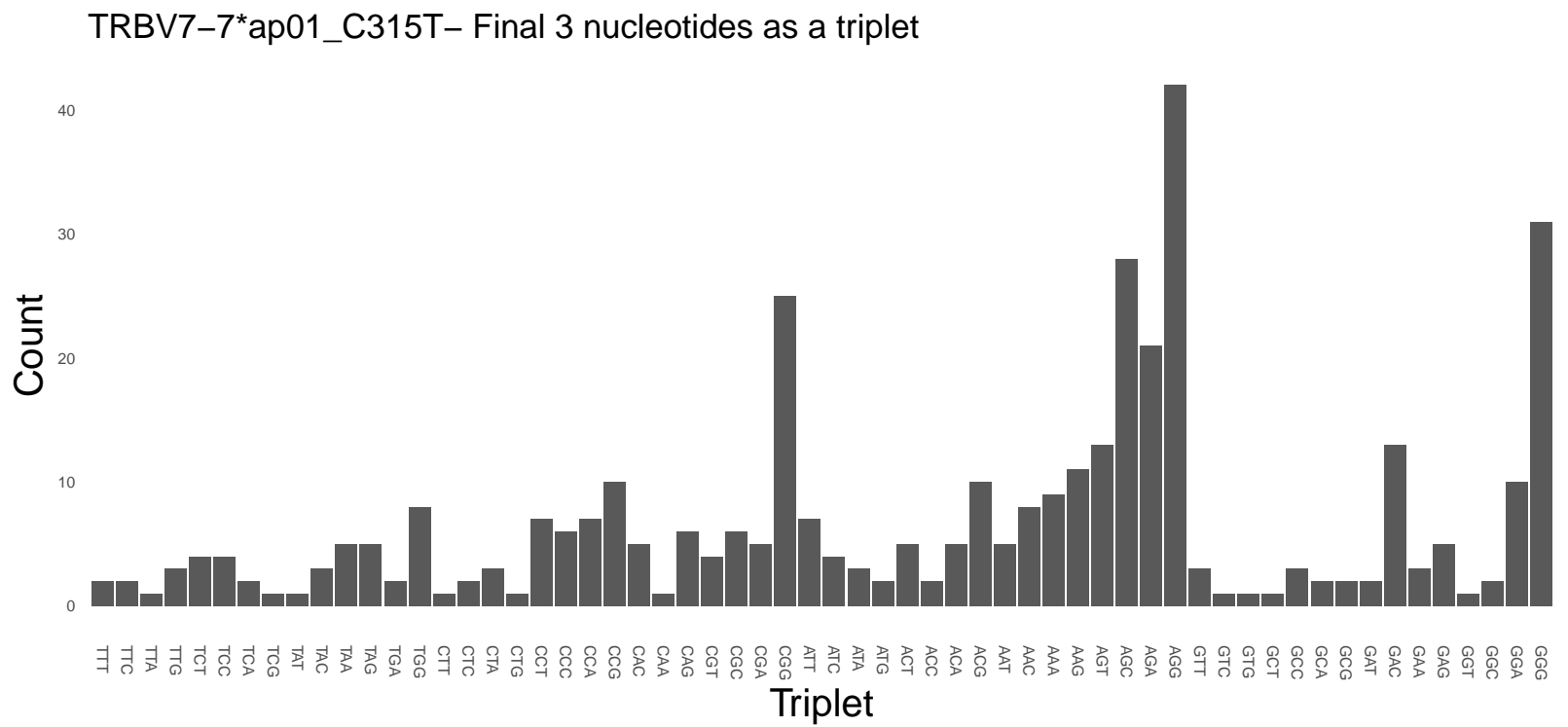
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



TRBV7-3\*ap01\_G292T- Final 3 nucleotides as a triplet

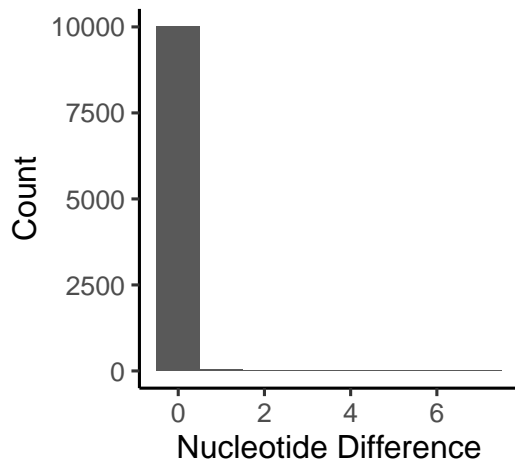


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



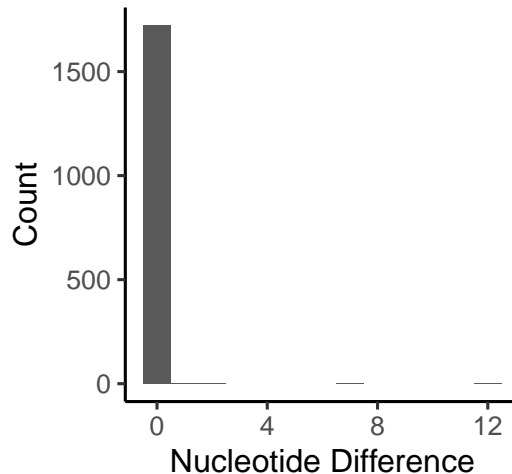
### TRBV20-1\*ap01

10076 sequences assigned  
10022 (99.5%) exact matches, in which:  
9957 unique CDR3  
13 unique J



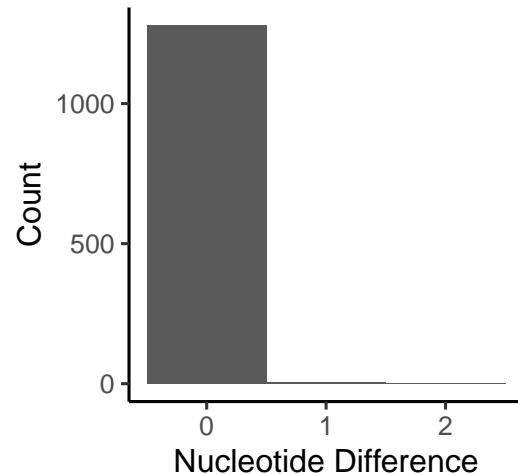
### TRBV10-3\*ap01

1728 sequences assigned  
1722 (99.7%) exact matches, in which:  
1705 unique CDR3  
13 unique J



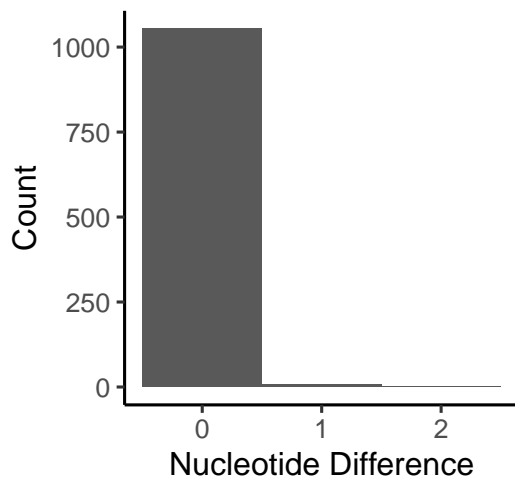
### TRBV14\*ap01

1285 sequences assigned  
1279 (99.5%) exact matches, in which:  
1277 unique CDR3  
13 unique J



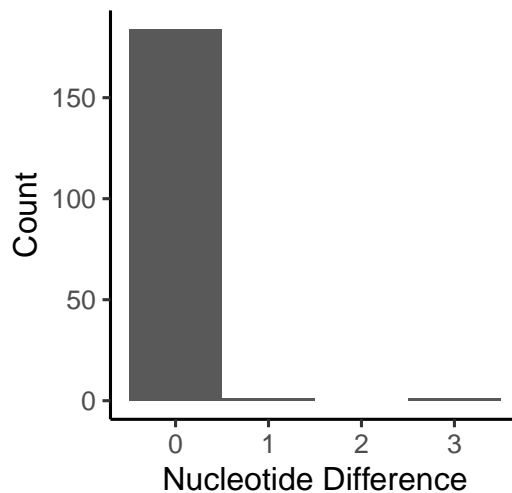
### TRBV10-1\*ap01

1061 sequences assigned  
1054 (99.3%) exact matches, in which:  
1048 unique CDR3  
13 unique J



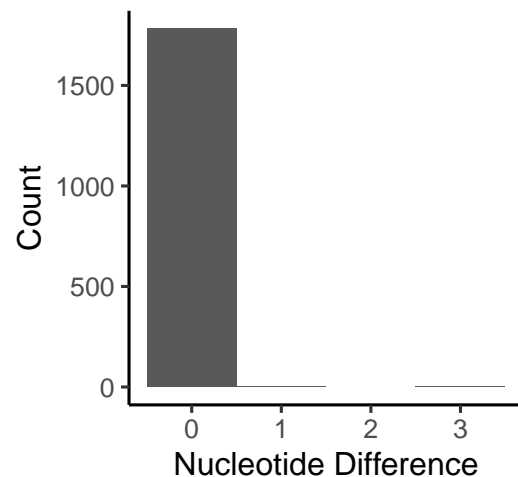
### TRBV1\*ap01

186 sequences assigned  
184 (98.9%) exact matches, in which:  
184 unique CDR3  
13 unique J



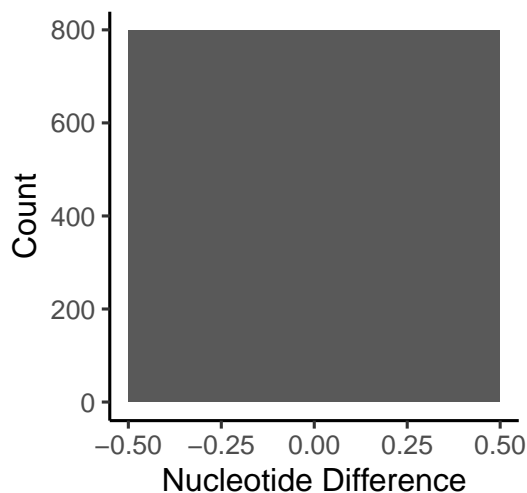
### TRBV15\*ap02

1787 sequences assigned  
1782 (99.7%) exact matches, in which:  
1769 unique CDR3  
13 unique J



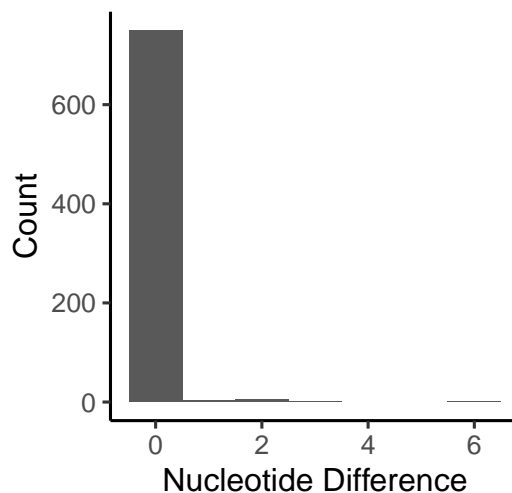
### TRBV10-2\*ap01

799 sequences assigned  
799 (100%) exact matches, in which:  
796 unique CDR3  
13 unique J



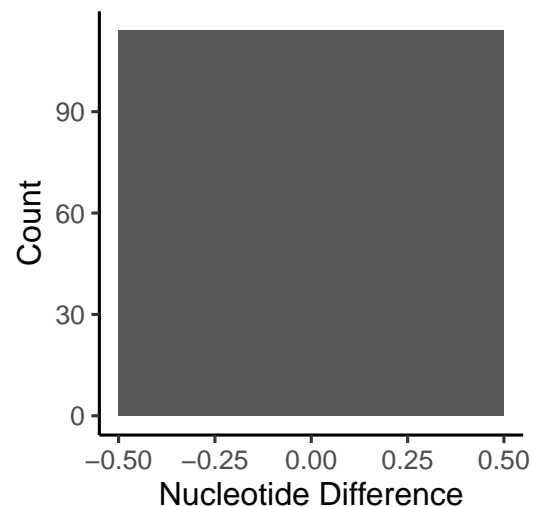
### TRBV13\*ap01

761 sequences assigned  
750 (98.6%) exact matches, in which:  
746 unique CDR3  
12 unique J



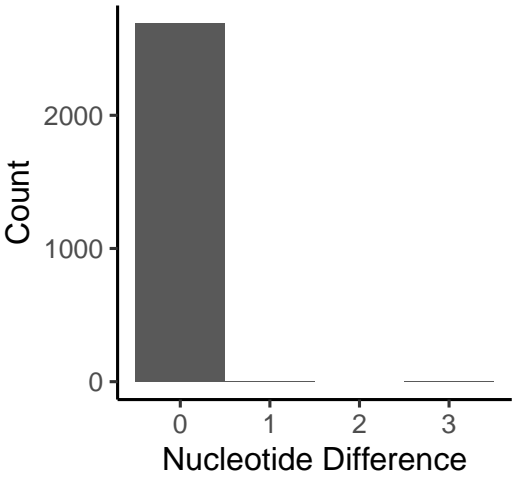
### TRBV16\*ap01

114 sequences assigned  
114 (100%) exact matches, in which:  
114 unique CDR3  
12 unique J



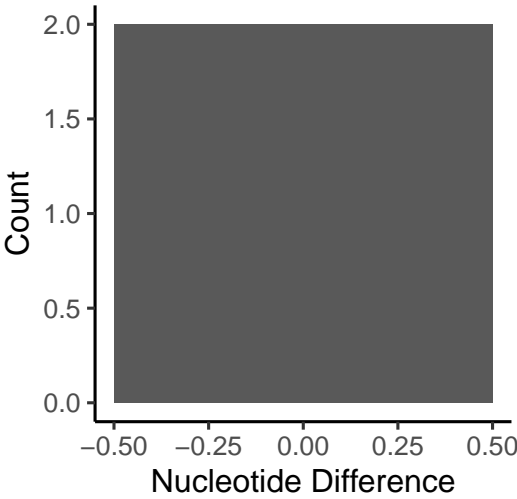
TRBV18\*ap01

2695 sequences assigned  
2690 (99.8%) exact matches, in which:  
2686 unique CDR3  
13 unique J



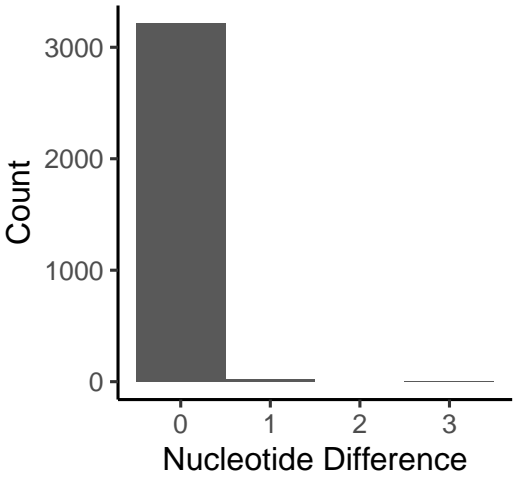
TRBV26\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
1 unique J



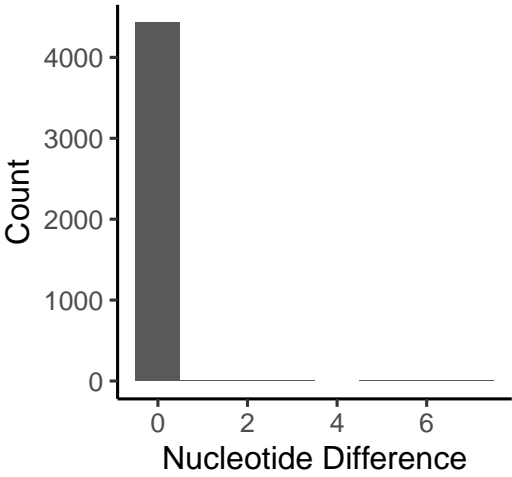
TRBV30\*ap01

3240 sequences assigned  
3214 (99.2%) exact matches, in which:  
3200 unique CDR3  
13 unique J



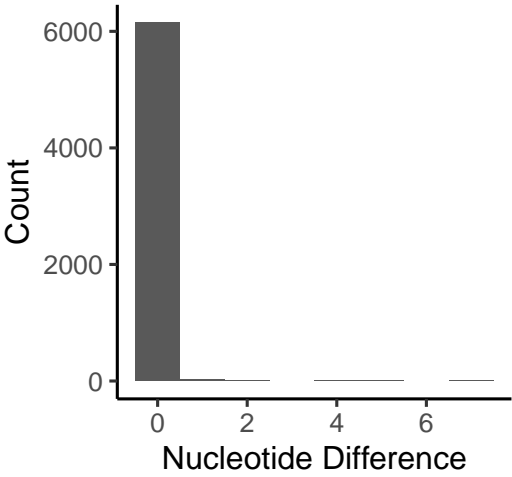
TRBV19\*ap01

4447 sequences assigned  
4428 (99.6%) exact matches, in which:  
4424 unique CDR3  
12 unique J



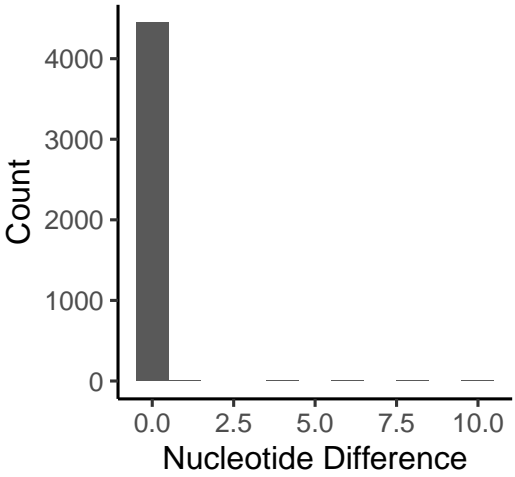
TRBV27\*ap01

6177 sequences assigned  
6148 (99.5%) exact matches, in which:  
6122 unique CDR3  
14 unique J



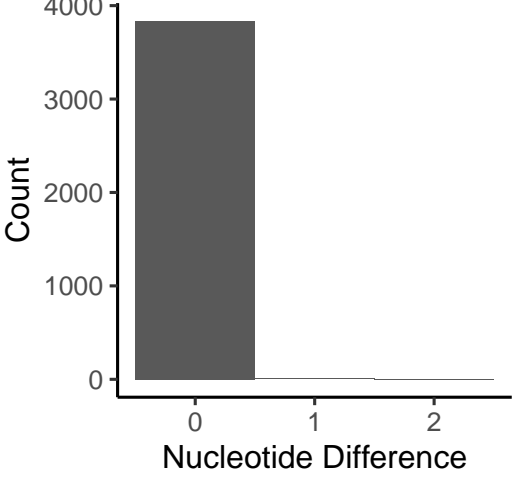
TRBV9\*ap01

4459 sequences assigned  
4446 (99.7%) exact matches, in which:  
4425 unique CDR3  
13 unique J



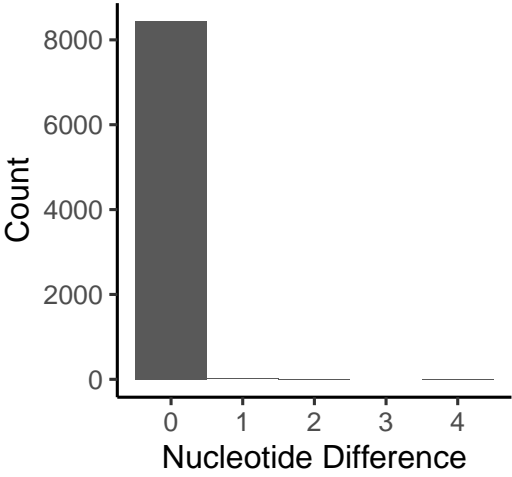
TRBV2\*ap01

3845 sequences assigned  
3835 (99.7%) exact matches, in which:  
3821 unique CDR3  
13 unique J



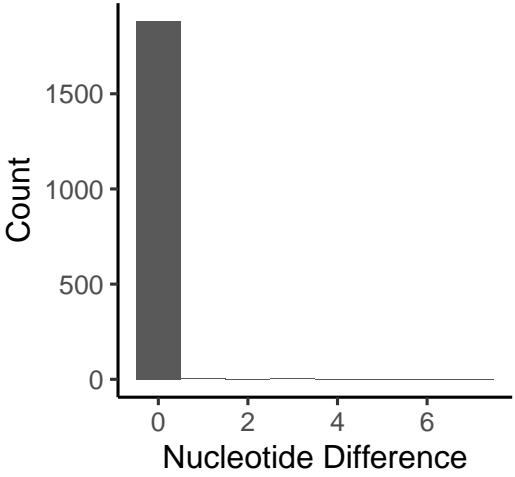
TRBV28\*ap01

8466 sequences assigned  
8443 (99.7%) exact matches, in which:  
8409 unique CDR3  
13 unique J



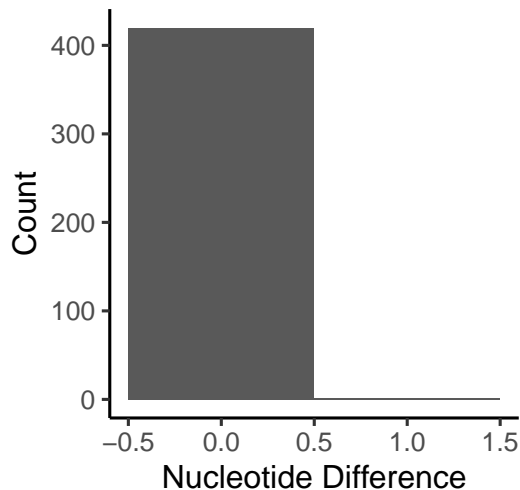
TRBV21-1\*ap01

1899 sequences assigned  
1882 (99.1%) exact matches, in which:  
1882 unique CDR3  
13 unique J



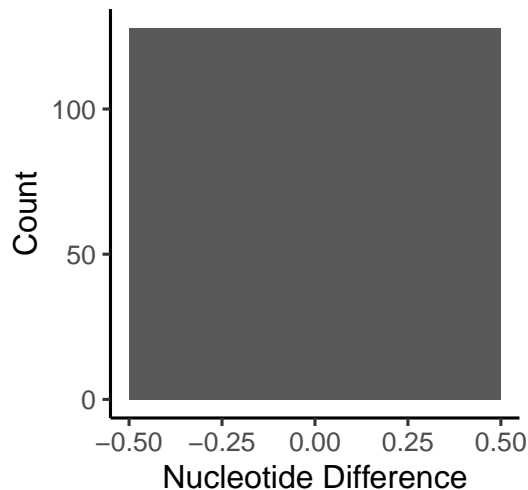
### TRBV11-1\*ap01

422 sequences assigned  
420 (99.5%) exact matches, in which:  
418 unique CDR3  
12 unique J



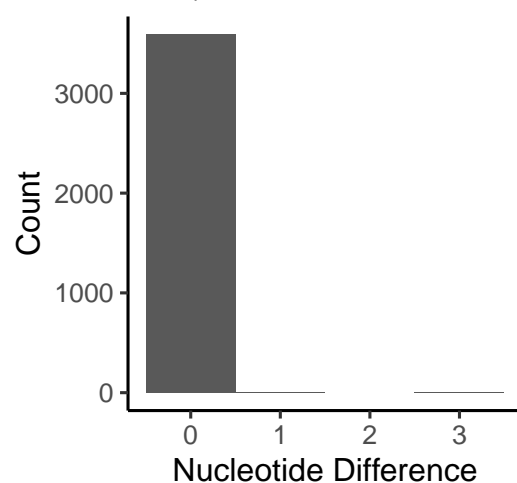
### TRBV12-1\*ap01

128 sequences assigned  
128 (100%) exact matches, in which:  
128 unique CDR3  
12 unique J



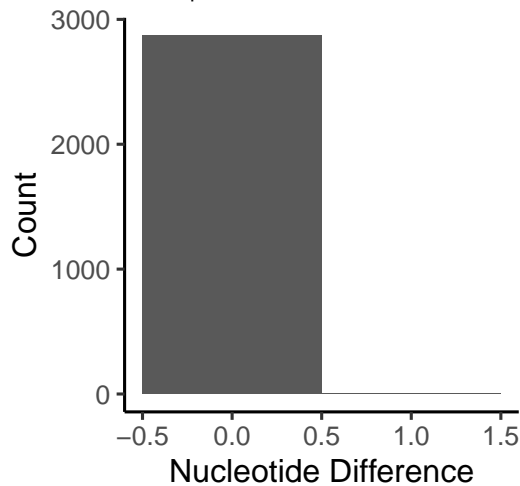
### TRBV12-34\*ap01

3601 sequences assigned  
3591 (99.7%) exact matches, in which:  
3577 unique CDR3  
13 unique J



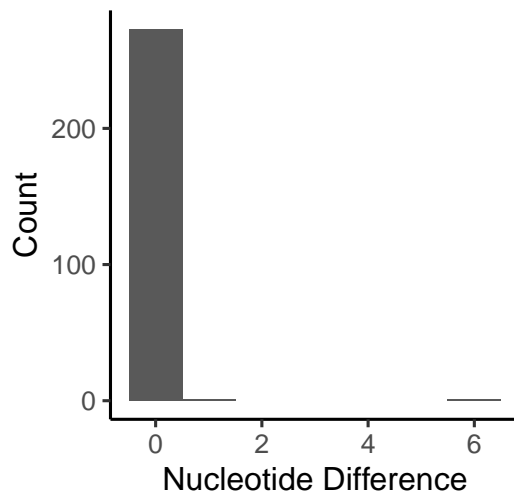
### TRBV11-2\*ap01

2872 sequences assigned  
2869 (99.9%) exact matches, in which:  
2860 unique CDR3  
13 unique J



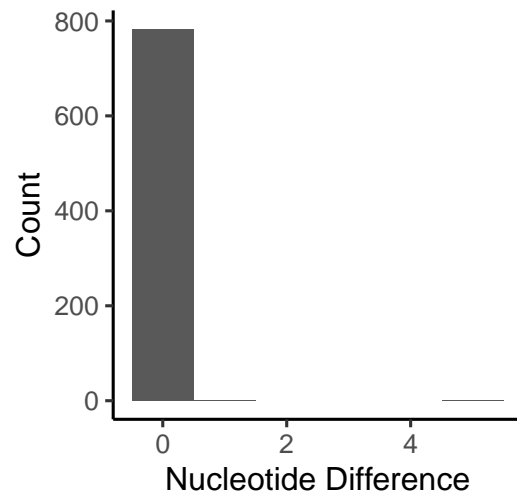
### TRBV12-2\*ap01

275 sequences assigned  
273 (99.3%) exact matches, in which:  
271 unique CDR3  
13 unique J



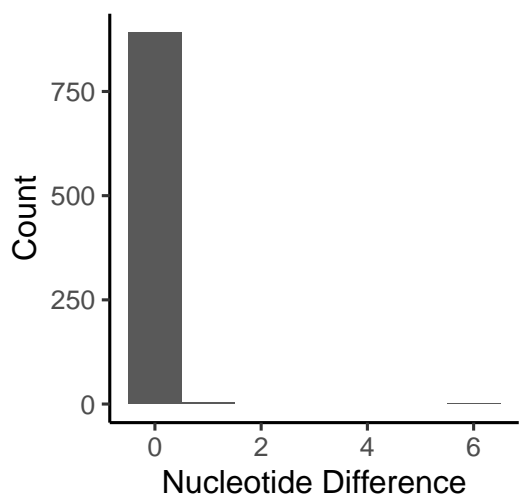
### TRBV23-1\*ap01

786 sequences assigned  
783 (99.6%) exact matches, in which:  
780 unique CDR3  
13 unique J



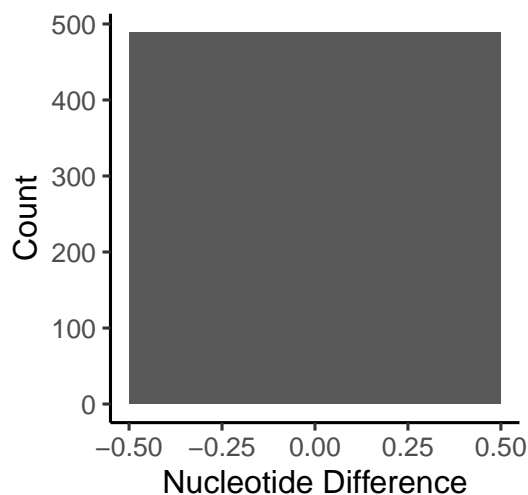
### TRBV11-3\*ap01

897 sequences assigned  
892 (99.4%) exact matches, in which:  
889 unique CDR3  
13 unique J



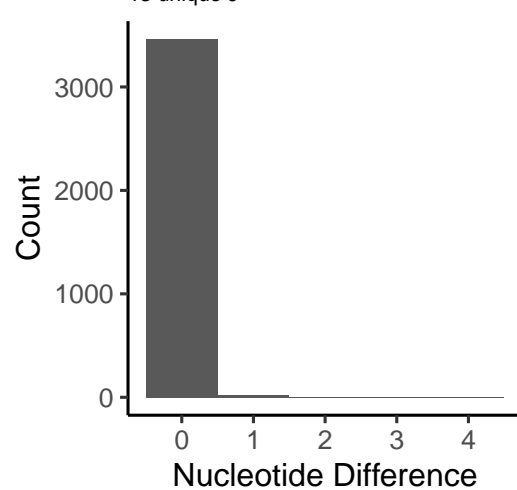
### TRBV12-5\*ap01

489 sequences assigned  
489 (100%) exact matches, in which:  
487 unique CDR3  
12 unique J



### TRBV3-12\*ap01

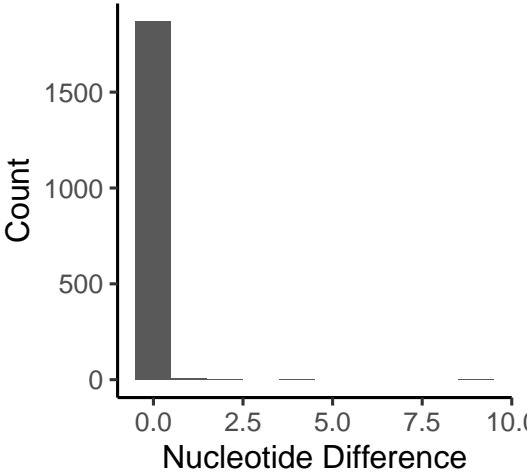
3490 sequences assigned  
3463 (99.2%) exact matches, in which:  
3453 unique CDR3  
13 unique J





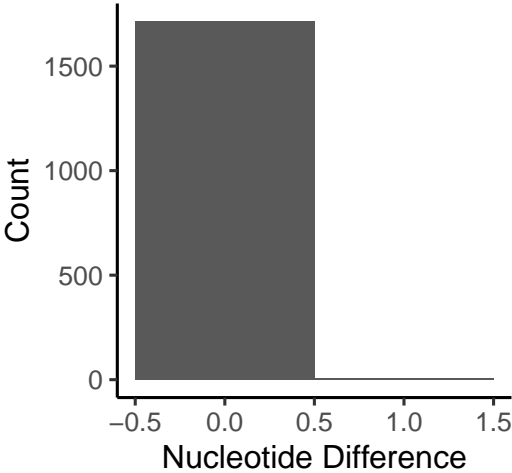
TRBV24-1\*ap01

1880 sequences assigned  
1869 (99.4%) exact matches, in which:  
1866 unique CDR3  
13 unique J



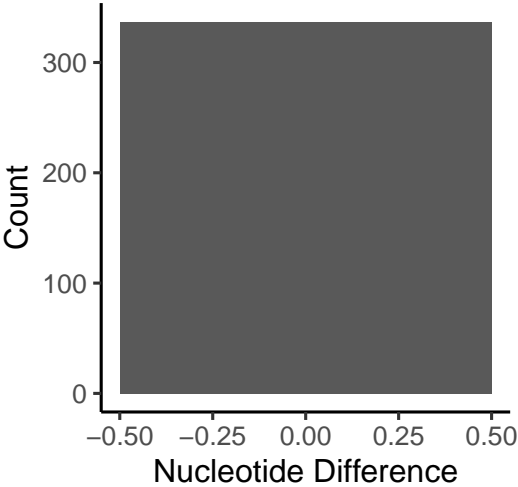
TRBV4-3\*ap01

1720 sequences assigned  
1714 (99.7%) exact matches, in which:  
1707 unique CDR3  
13 unique J



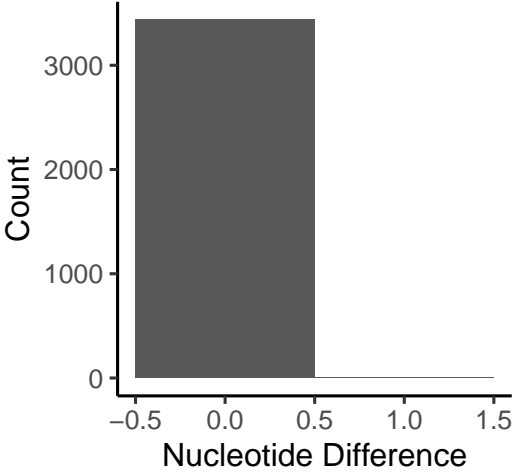
TRBV5-3\*ap01

337 sequences assigned  
337 (100%) exact matches, in which:  
336 unique CDR3  
13 unique J



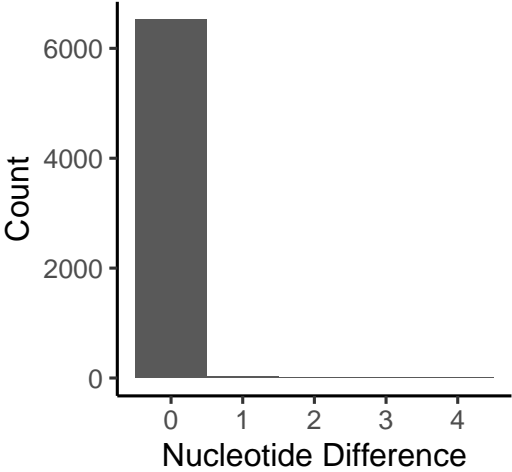
TRBV4-1\*ap01

3441 sequences assigned  
3437 (99.9%) exact matches, in which:  
3418 unique CDR3  
13 unique J



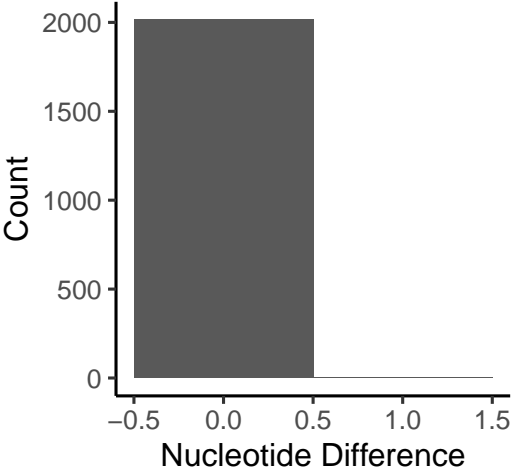
TRBV5-1\*ap01

6544 sequences assigned  
6521 (99.6%) exact matches, in which:  
6462 unique CDR3  
13 unique J



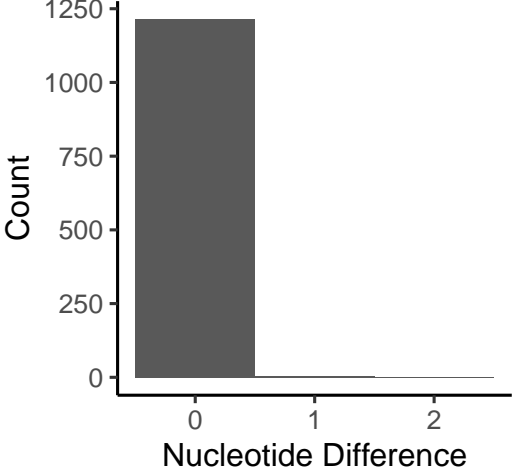
TRBV5-4\*ap01

2020 sequences assigned  
2015 (99.8%) exact matches, in which:  
2007 unique CDR3  
13 unique J



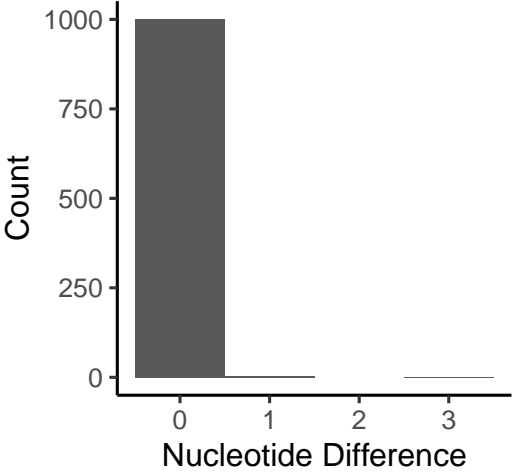
TRBV4-2\*ap01

1221 sequences assigned  
1215 (99.5%) exact matches, in which:  
1210 unique CDR3  
13 unique J



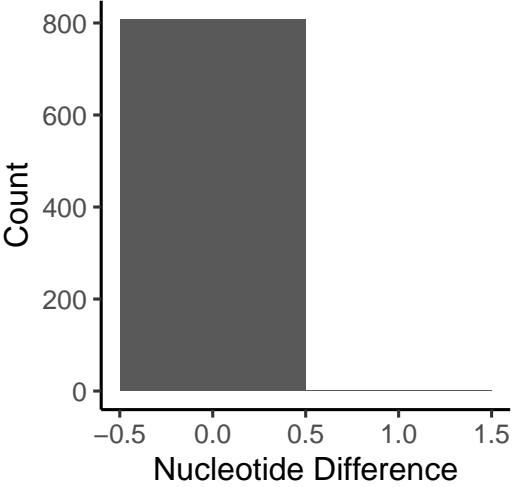
TRBV25-1\*ap01

1005 sequences assigned  
1001 (99.6%) exact matches, in which:  
999 unique CDR3  
13 unique J



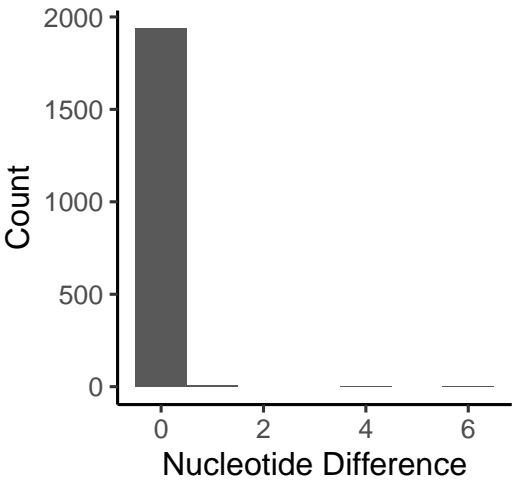
TRBV5-5\*ap01

809 sequences assigned  
808 (99.9%) exact matches, in which:  
808 unique CDR3  
12 unique J



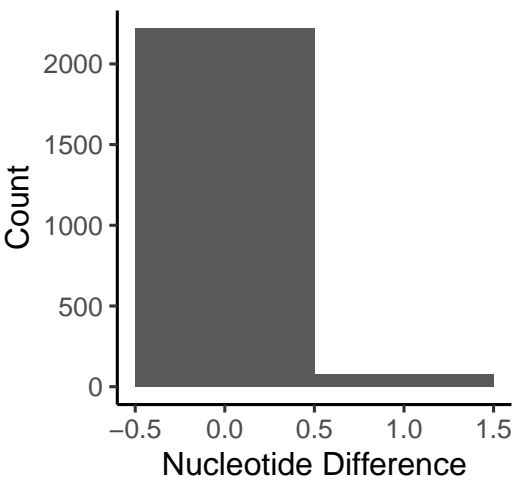
TRBV5-6\*ap01

1947 sequences assigned  
1938 (99.5%) exact matches, in which:  
1921 unique CDR3  
13 unique J



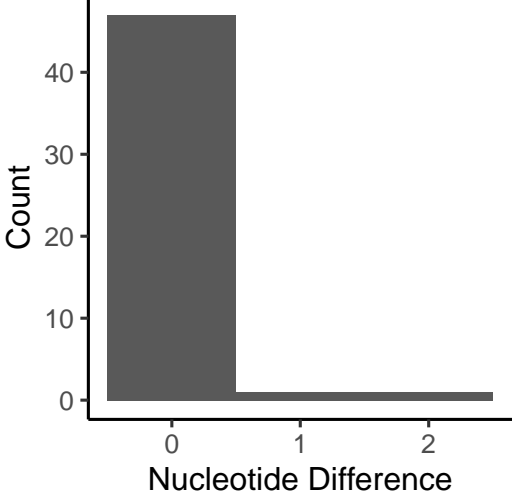
TRBV6-1\*ap01

2295 sequences assigned  
2220 (96.7%) exact matches, in which:  
2203 unique CDR3  
13 unique J



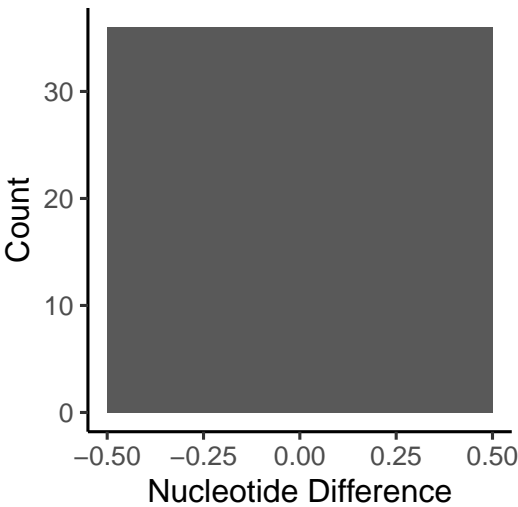
TRBV6-8\*ap01

49 sequences assigned  
47 (95.9%) exact matches, in which:  
47 unique CDR3  
12 unique J



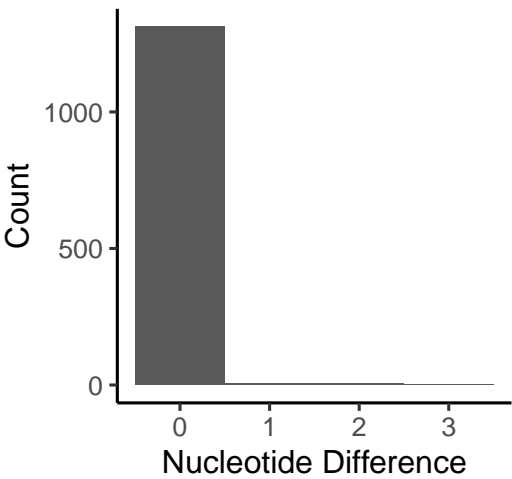
TRBV5-7\*ap01

36 sequences assigned  
36 (100%) exact matches, in which:  
36 unique CDR3  
12 unique J



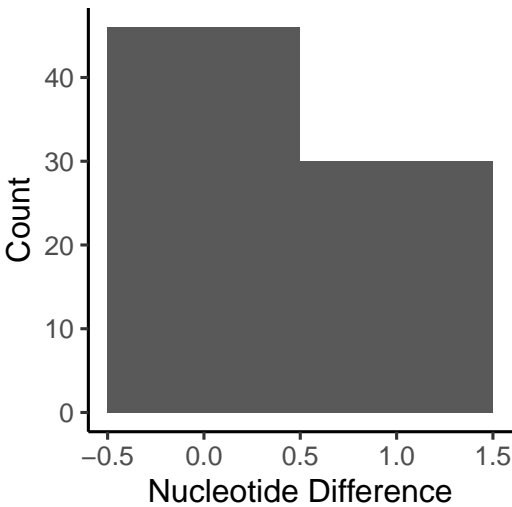
TRBV6-4\*ap01

1321 sequences assigned  
1312 (99.3%) exact matches, in which:  
1311 unique CDR3  
13 unique J



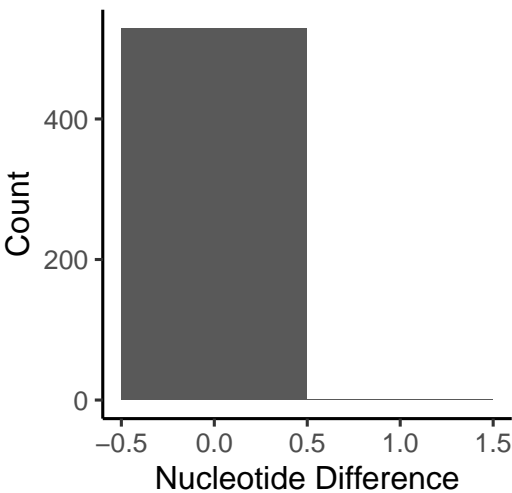
TRBV6-9\*ap01

76 sequences assigned  
46 (60.5%) exact matches, in which:  
46 unique CDR3  
11 unique J



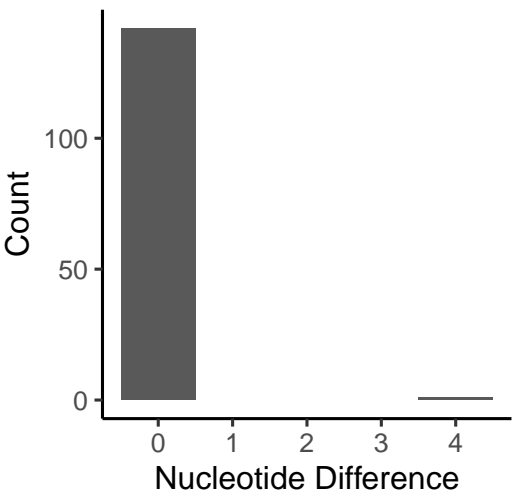
TRBV5-8\*ap01

530 sequences assigned  
529 (99.8%) exact matches, in which:  
528 unique CDR3  
13 unique J



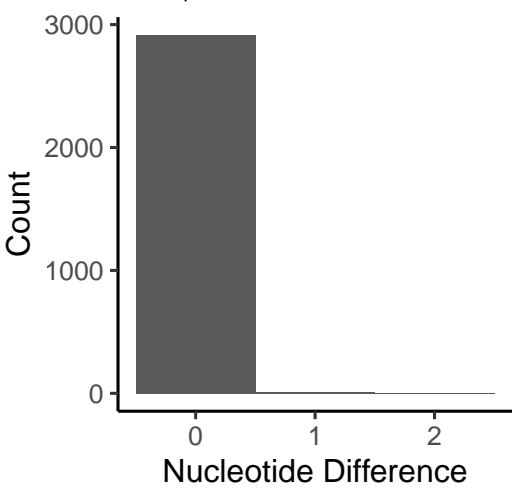
TRBV6-7\*ap01

143 sequences assigned  
142 (99.3%) exact matches, in which:  
142 unique CDR3  
13 unique J



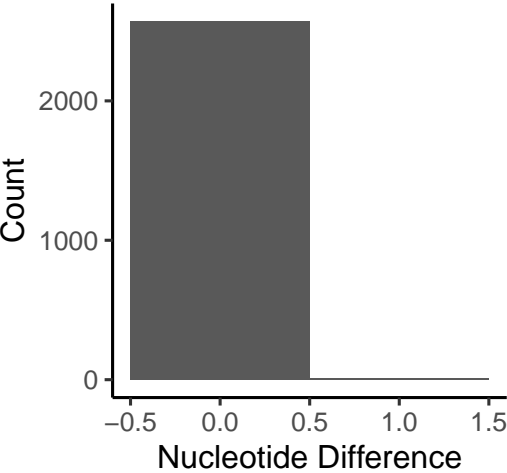
TRBV6-23\*ap01

2927 sequences assigned  
2915 (99.6%) exact matches, in which:  
2904 unique CDR3  
13 unique J



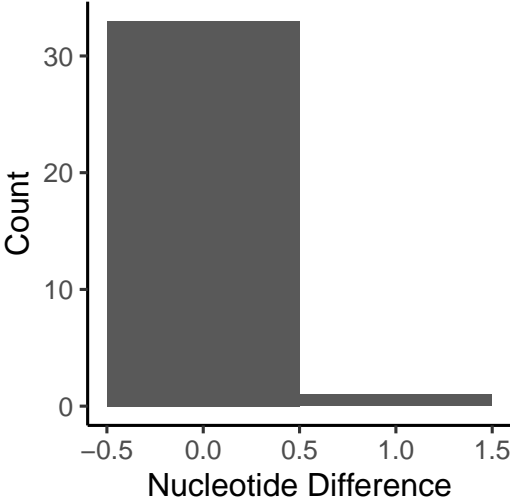
TRBV6-56\*ap01

2580 sequences assigned  
2570 (99.6%) exact matches, in which:  
2553 unique CDR3  
13 unique J



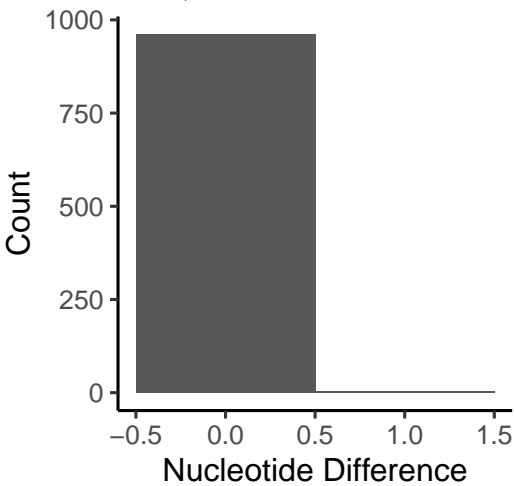
TRBV7-1\*ap01\_G291C\_T

34 sequences assigned  
33 (97.1%) exact matches, in which:  
32 unique CDR3  
8 unique J



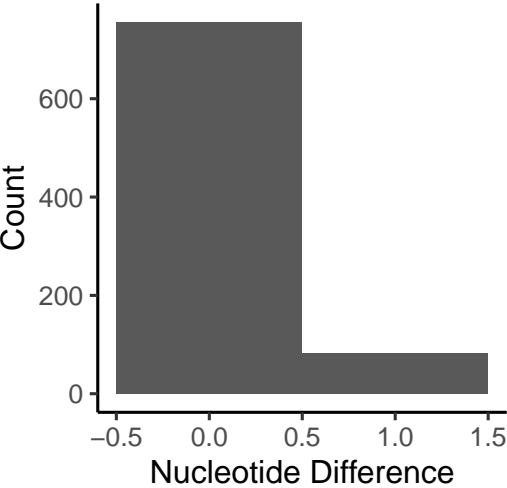
TRBV7-3\*ap01\_G292T

964 sequences assigned  
961 (99.7%) exact matches, in which:  
959 unique CDR3  
13 unique J



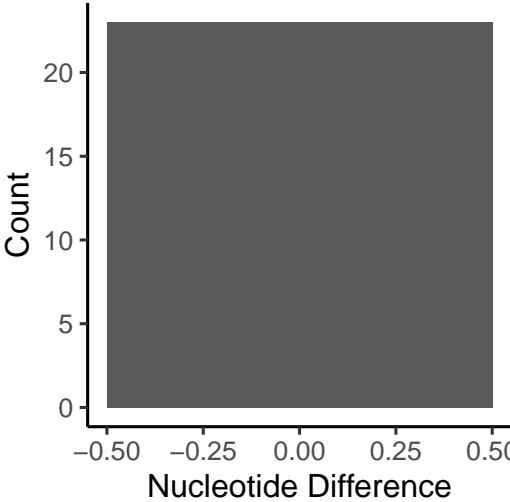
TRBV6-56\*ap02

839 sequences assigned  
756 (90.1%) exact matches, in which:  
751 unique CDR3  
13 unique J



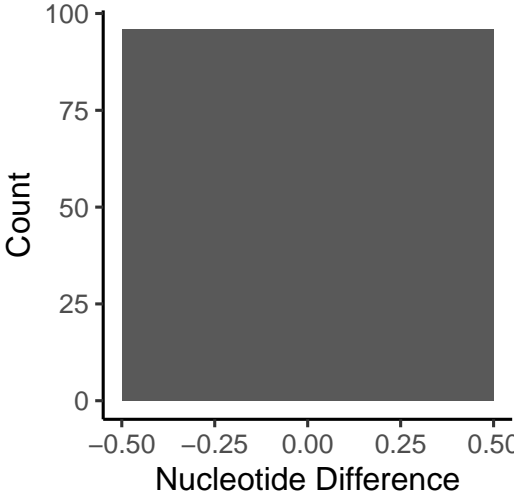
TRBV7-1\*ap01\_G291C\_T

23 sequences assigned  
23 (100%) exact matches, in which:  
23 unique CDR3  
7 unique J



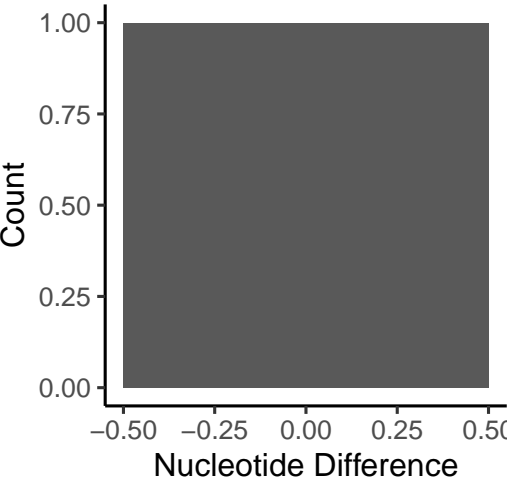
TRBV7-4\*ap01

96 sequences assigned  
96 (100%) exact matches, in which:  
95 unique CDR3  
12 unique J



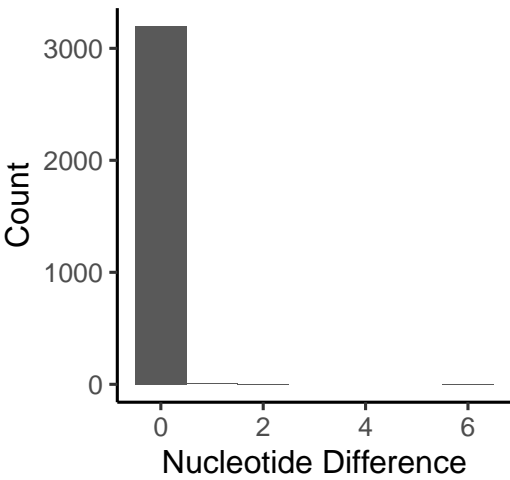
TRBV7-1\*ap01

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



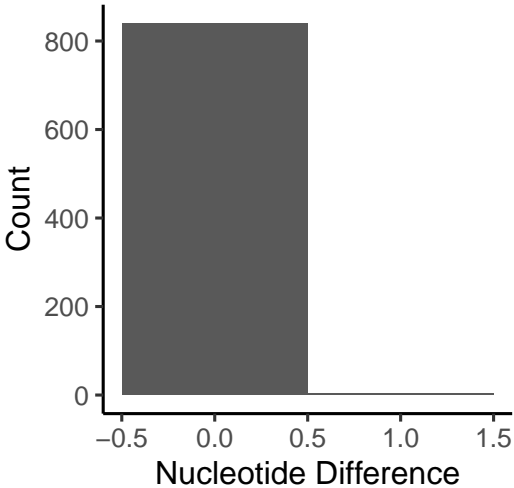
TRBV7-2\*ap01

3208 sequences assigned  
3199 (99.7%) exact matches, in which:  
3192 unique CDR3  
13 unique J



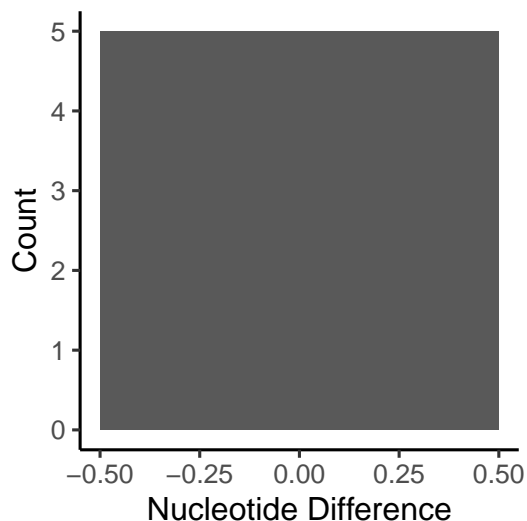
TRBV7-6\*ap01

843 sequences assigned  
840 (99.6%) exact matches, in which:  
840 unique CDR3  
12 unique J



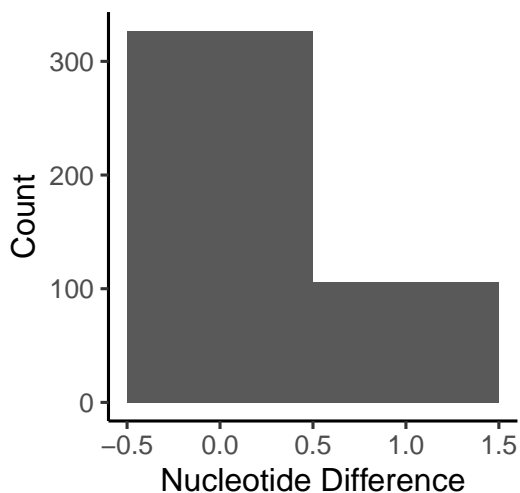
### TRBV7-7\*ap01

5 sequences assigned  
5 (100%) exact matches, in which:  
5 unique CDR3  
4 unique J



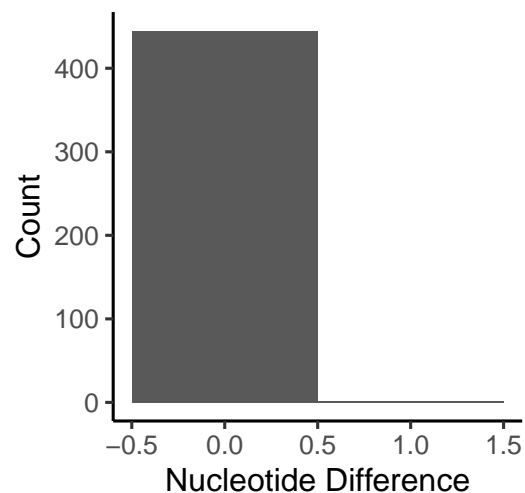
### TRBV7-8\*ap03

433 sequences assigned  
327 (75.5%) exact matches, in which:  
321 unique CDR3  
13 unique J



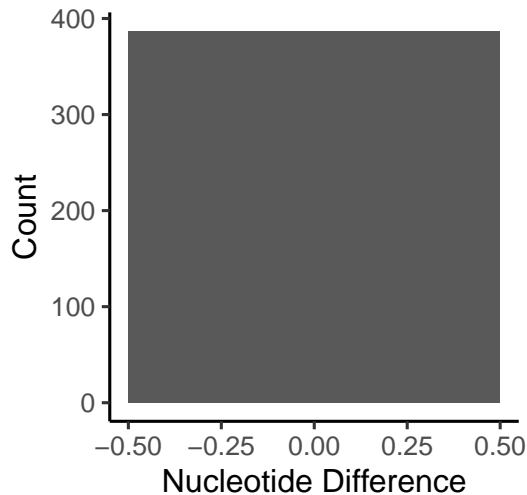
### TRBV29-1\*ap02

447 sequences assigned  
445 (99.6%) exact matches, in which:  
442 unique CDR3  
12 unique J



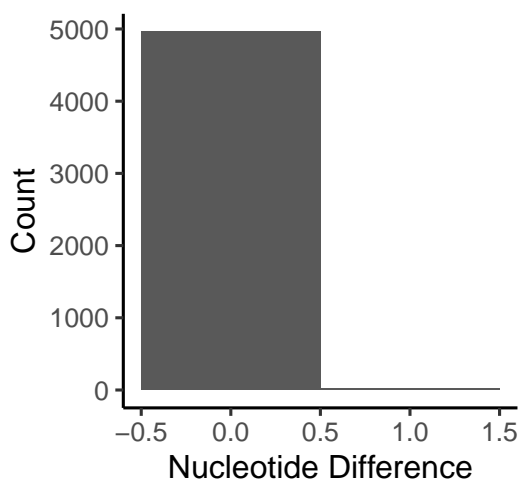
### TRBV7-7\*ap01\_C315T

387 sequences assigned  
387 (100%) exact matches, in which:  
386 unique CDR3  
12 unique J



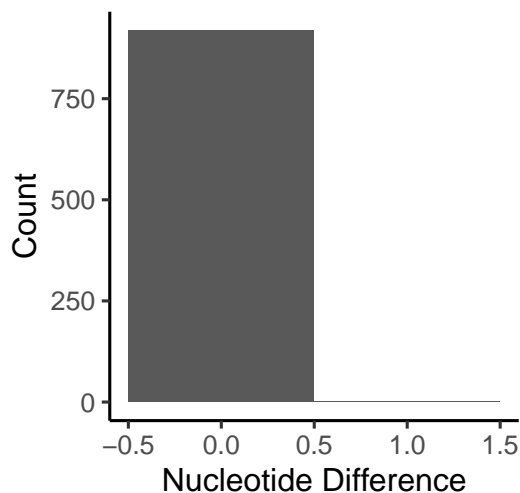
### TRBV7-9\*ap01

4977 sequences assigned  
4962 (99.7%) exact matches, in which:  
4946 unique CDR3  
13 unique J



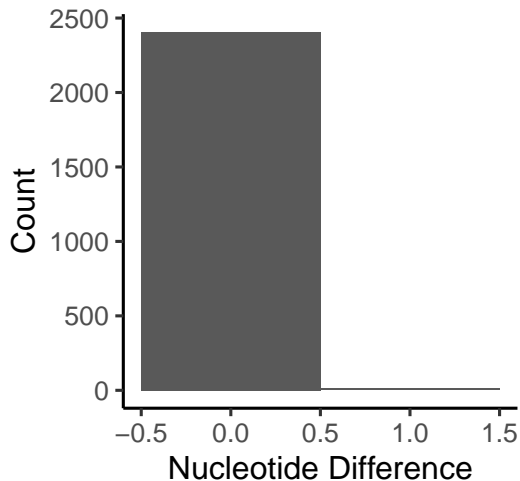
### TRBV7-8\*ap01

921 sequences assigned  
919 (99.8%) exact matches, in which:  
913 unique CDR3  
13 unique J

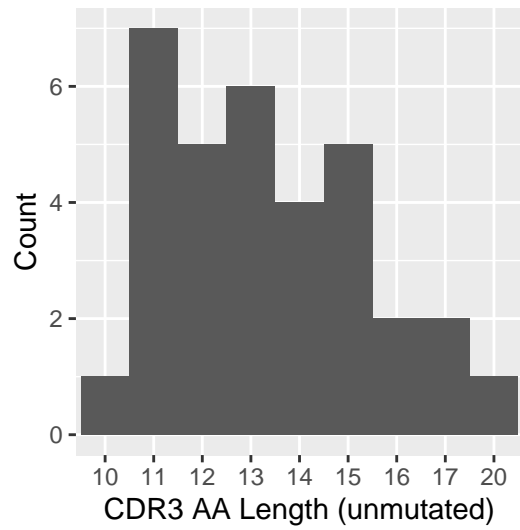


### TRBV29-1\*ap01

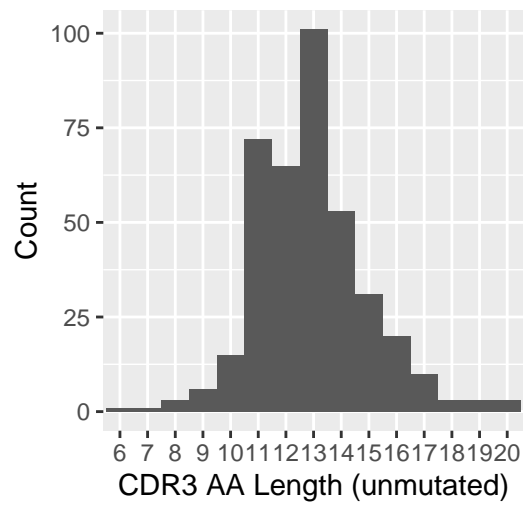
2418 sequences assigned  
2406 (99.5%) exact matches, in which:  
2399 unique CDR3  
12 unique J



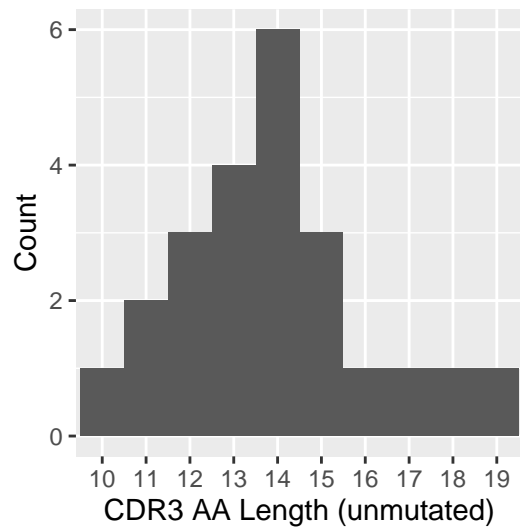
TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T



TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-3\*ap01\_G292T

