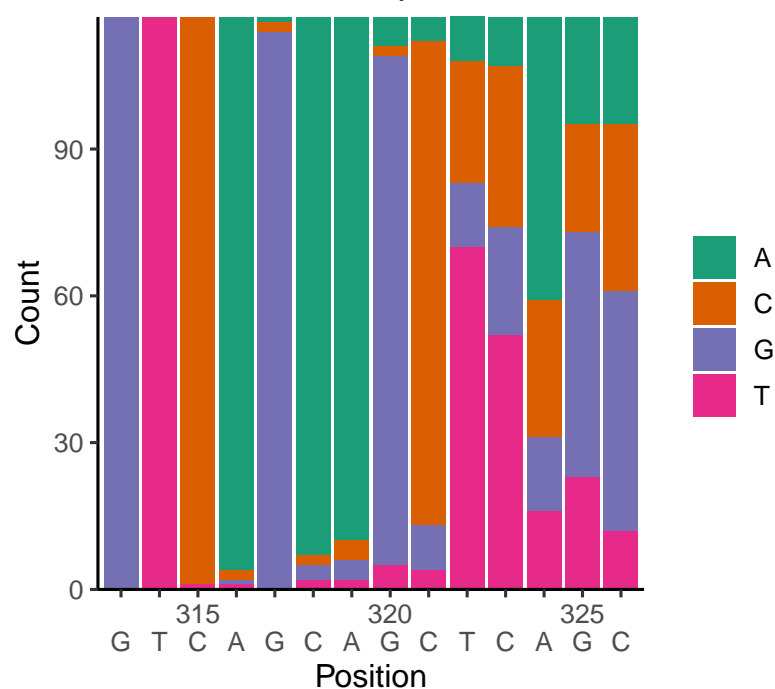
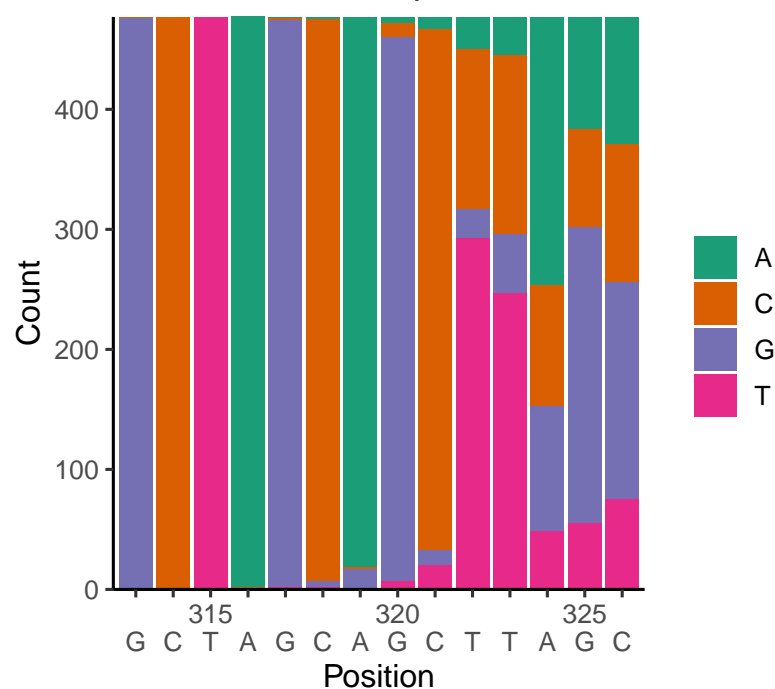


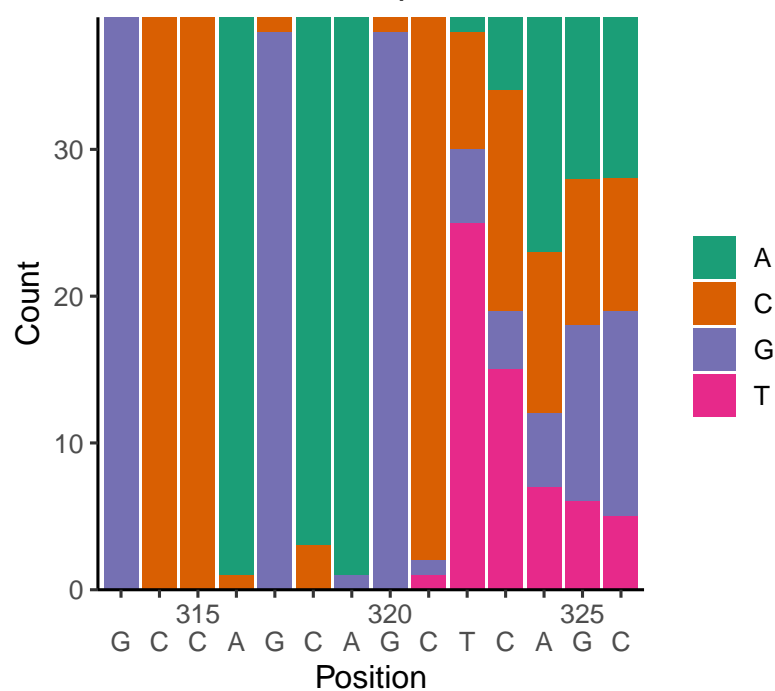
Gene TRBV7-1\*ap01\_G291C\_T296C\_C3



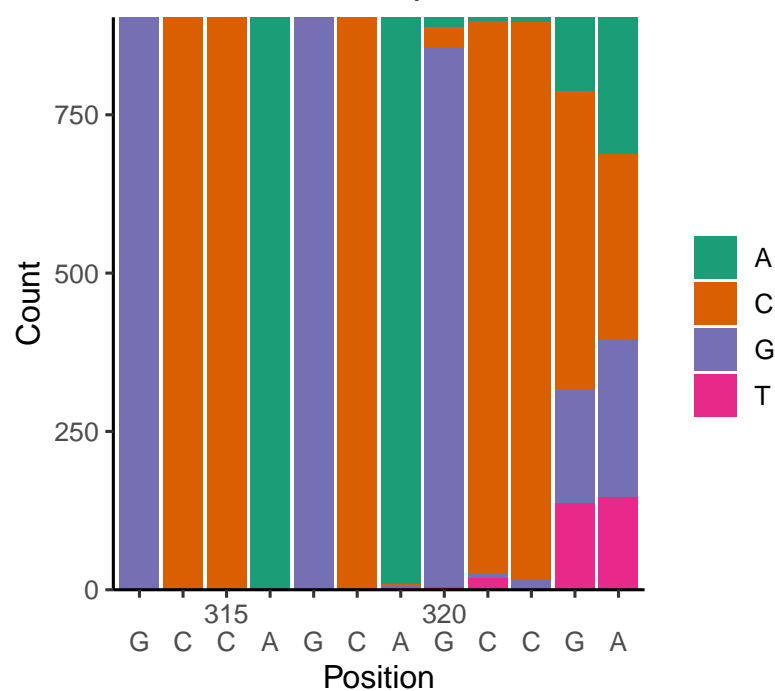
Gene TRBV7-7\*ap01\_C315T



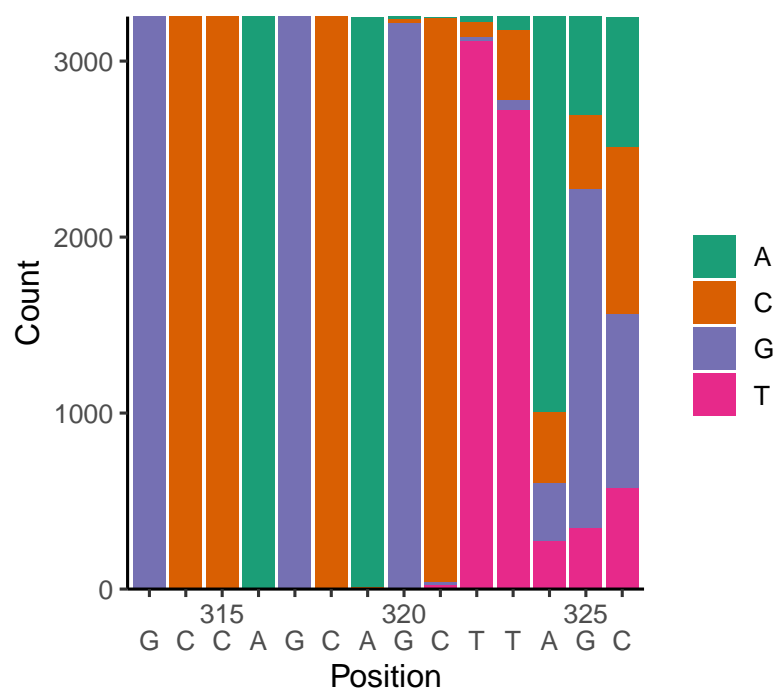
Gene TRBV7-1\*ap01\_G291C\_T296C



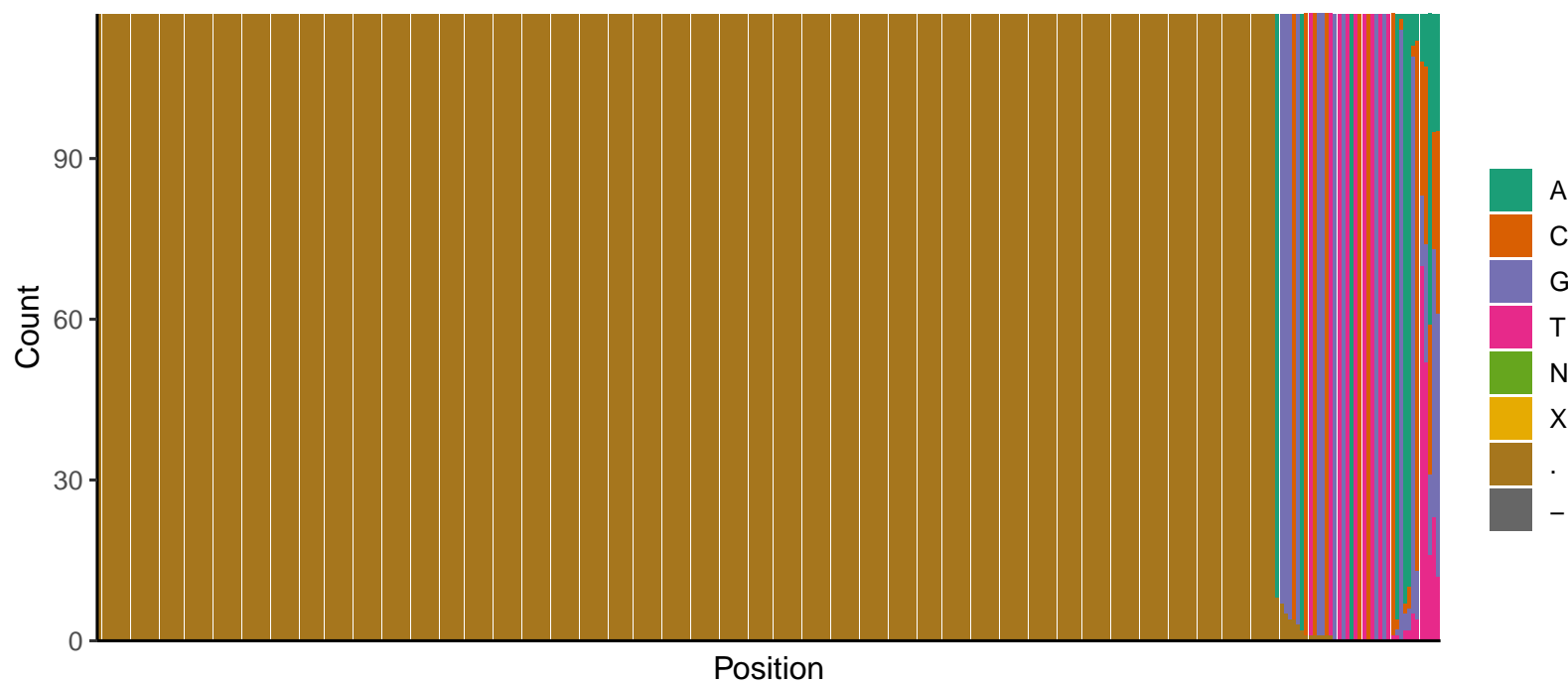
Gene TRBV7-8\*ap03\_C297G\_G303T



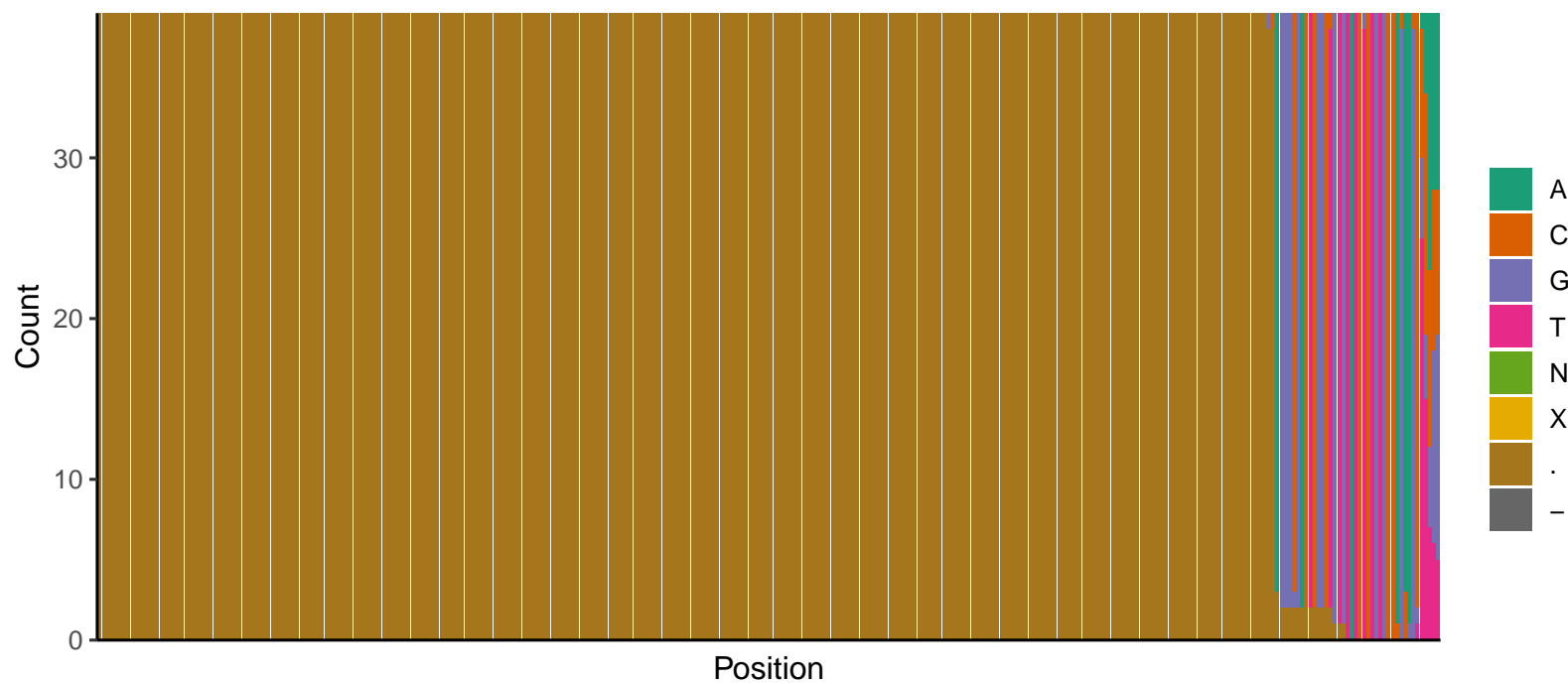
Gene TRBV7-2\*ap01\_G303T



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



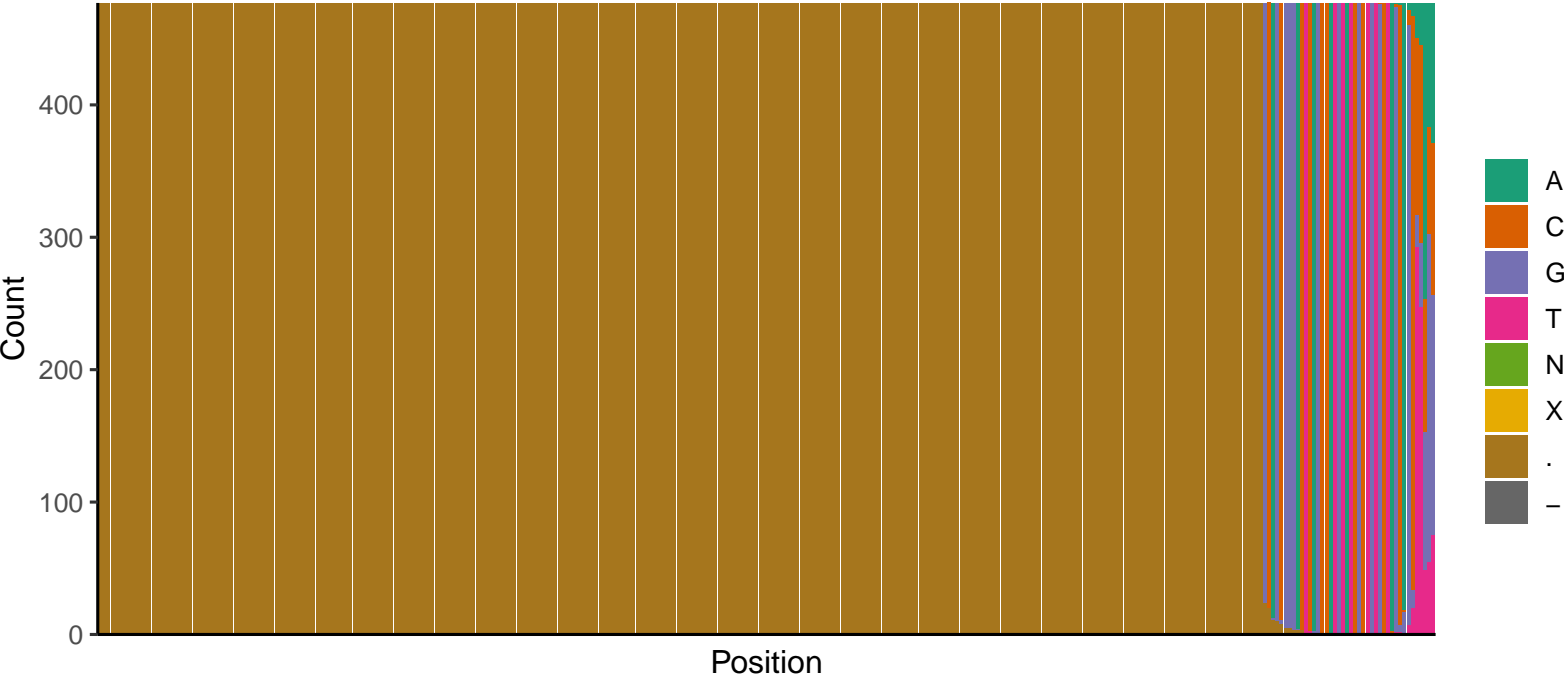
Gene TRBV7-1\*ap01\_G291C\_T296C



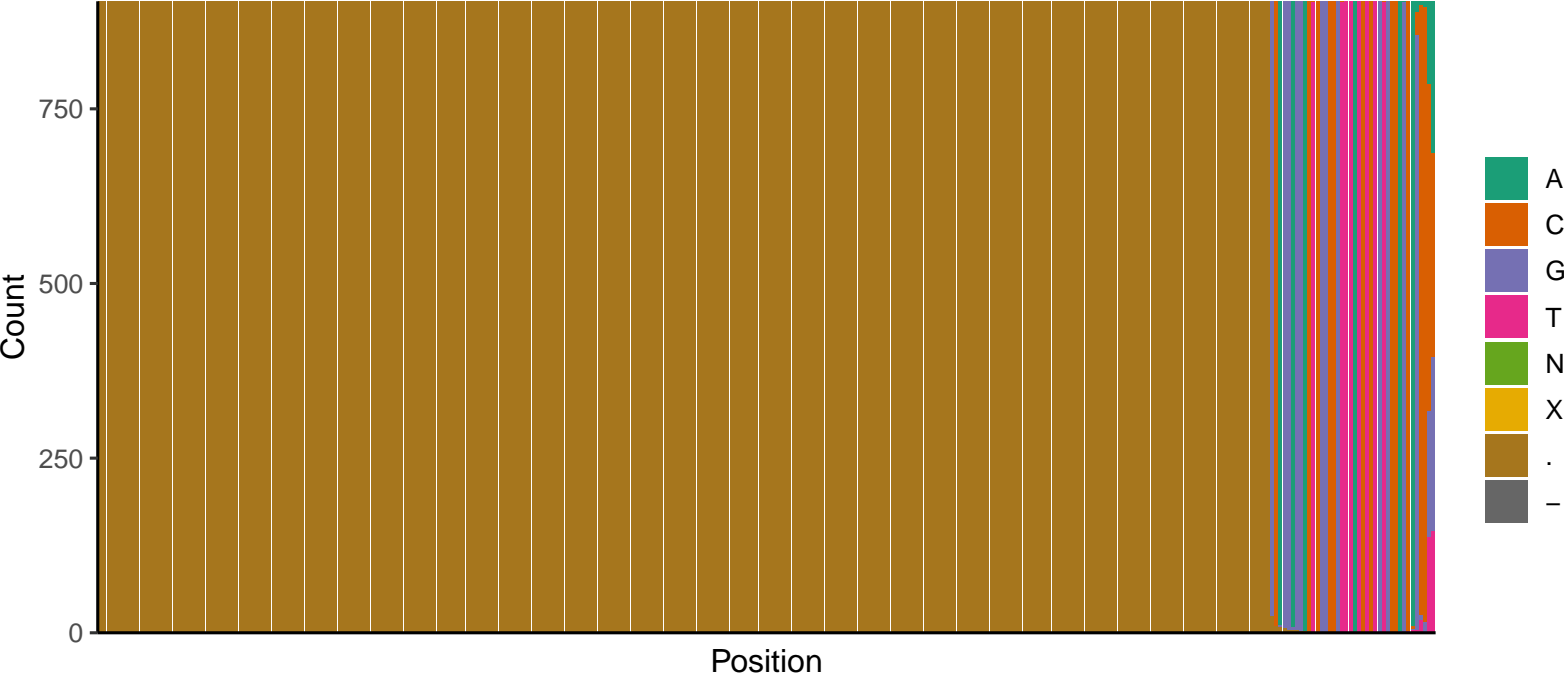
Gene TRBV7-2\*ap01\_G303T



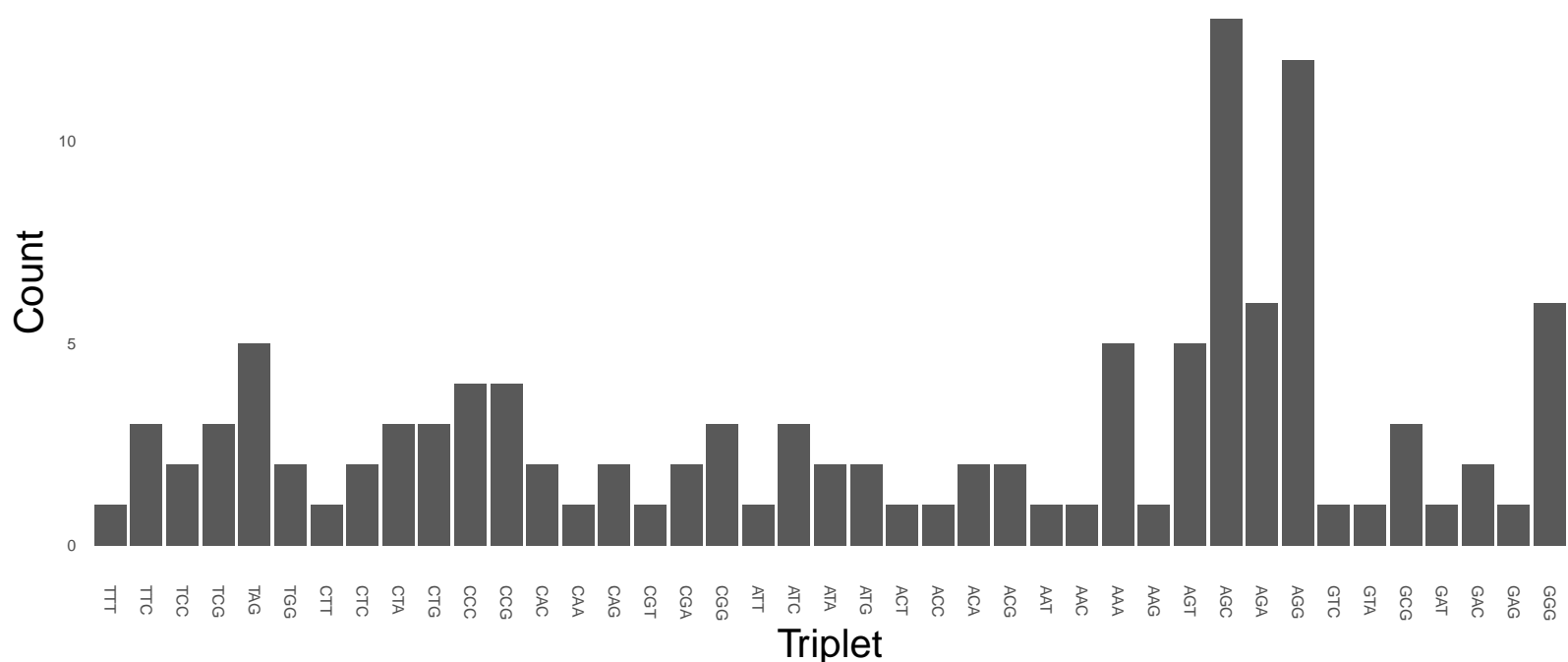
Gene TRBV7-7\*ap01\_C315T



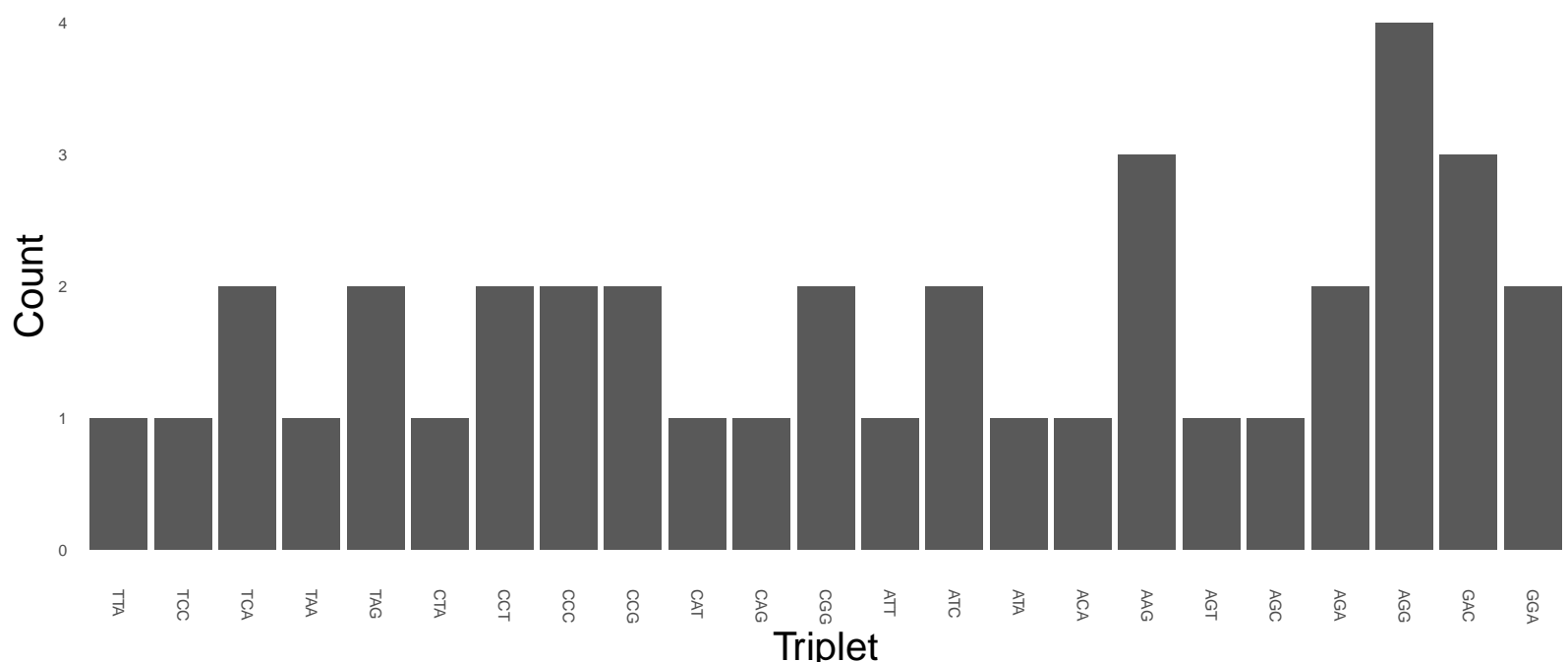
Gene TRBV7-8\*ap03\_C297G\_G303T



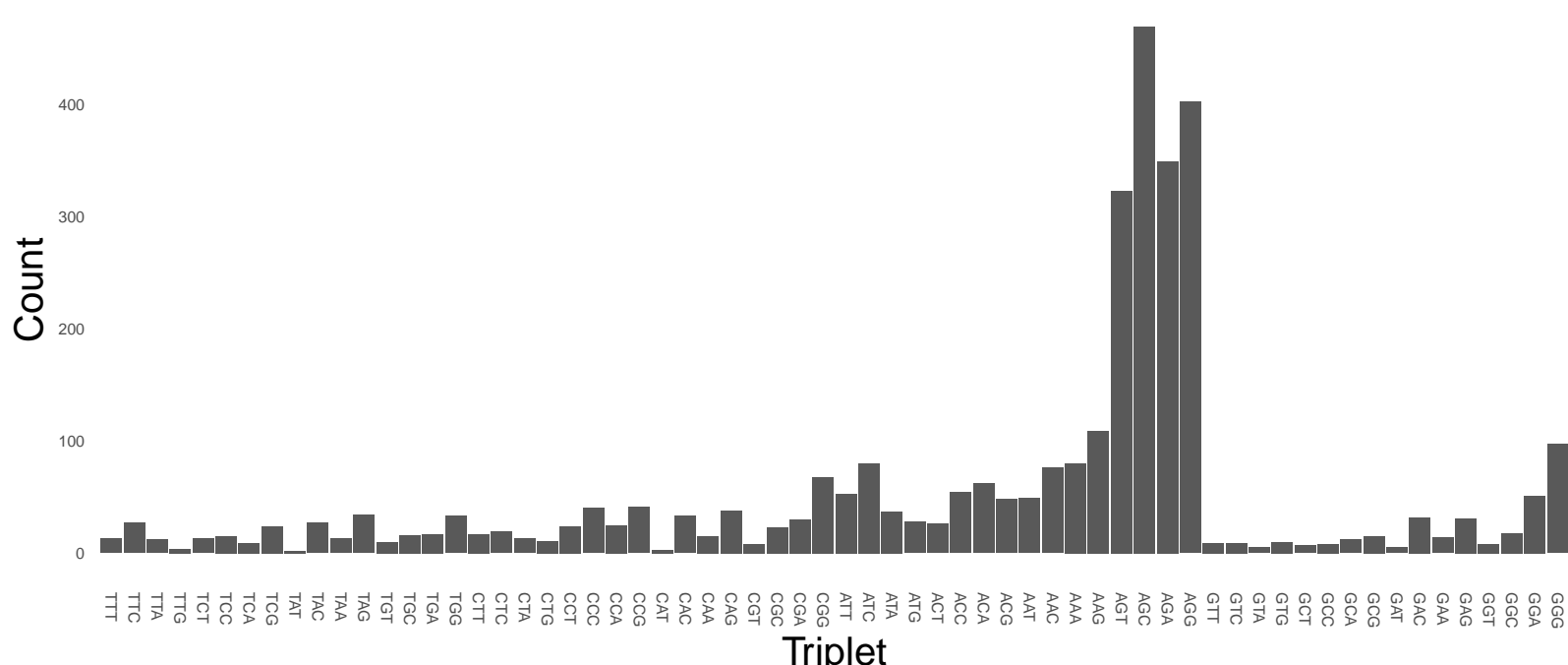
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



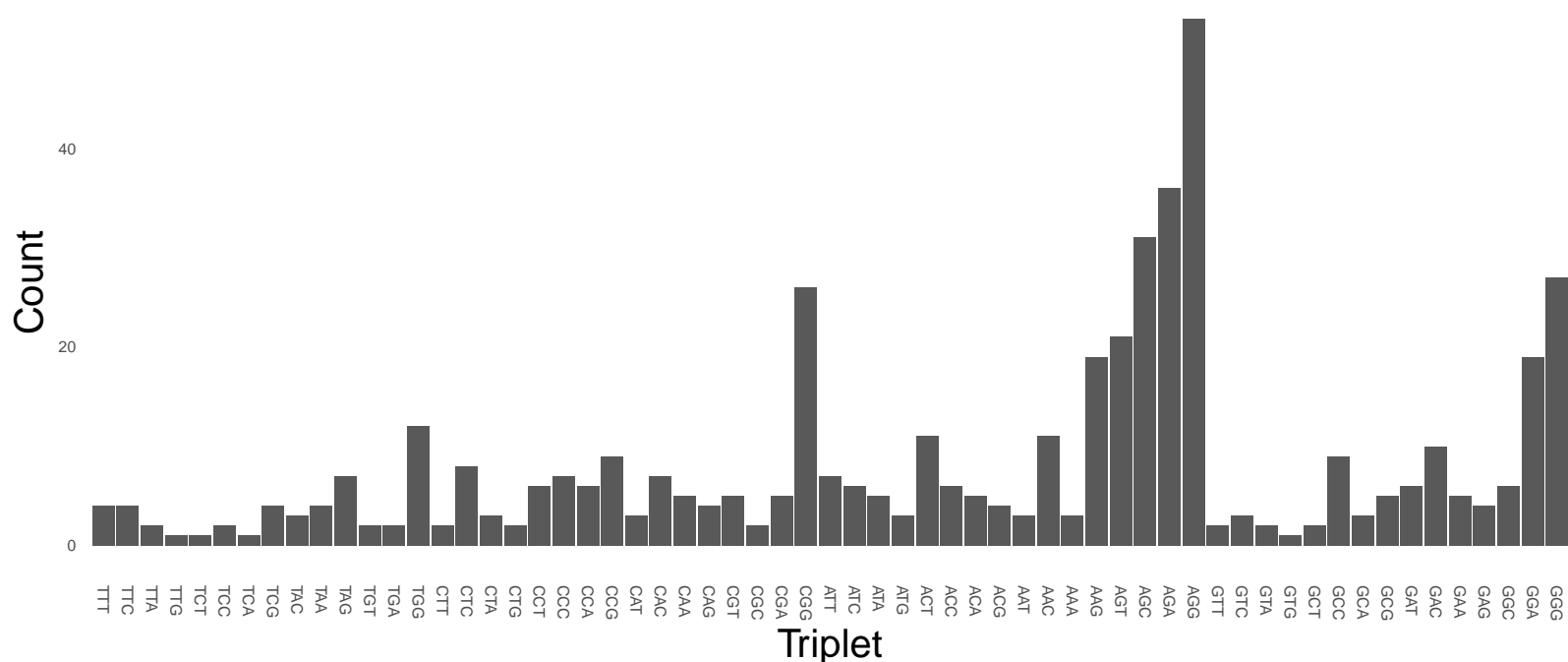
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



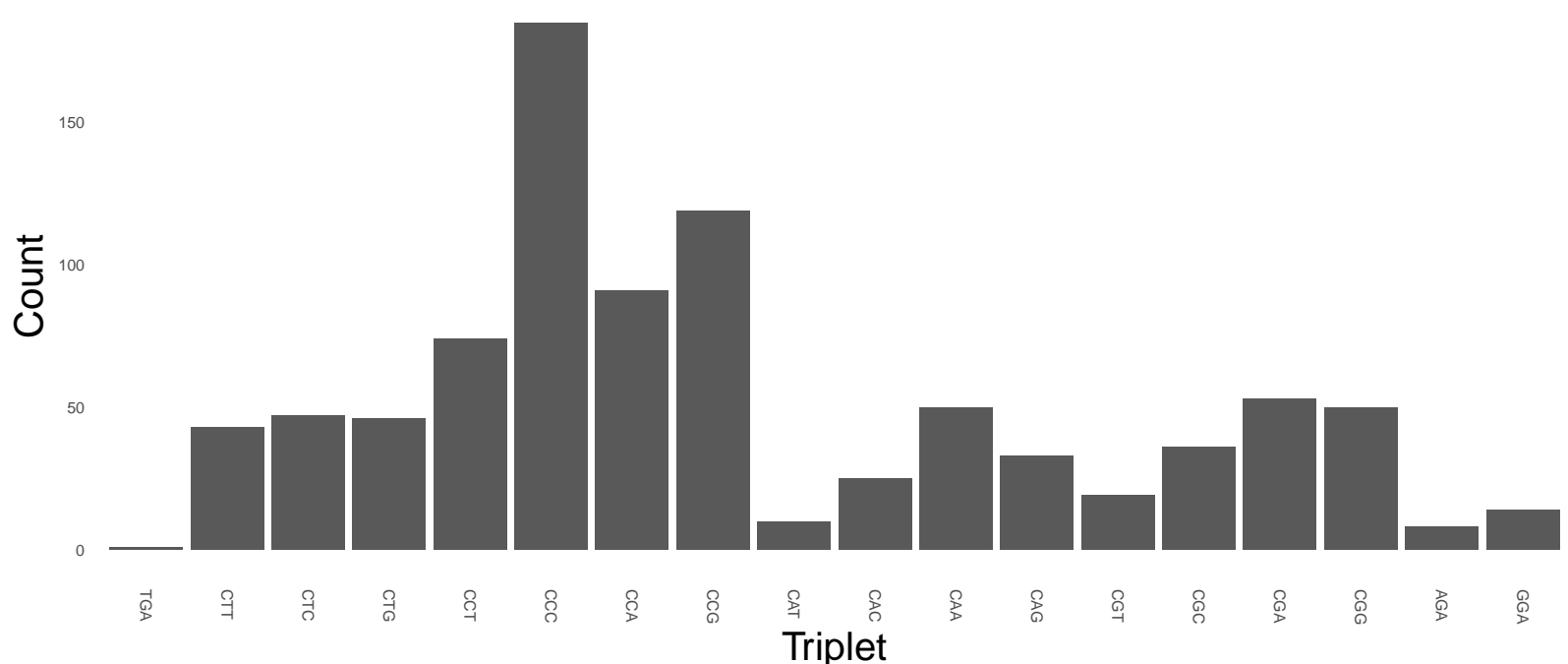
TRBV7-2\*ap01\_G303T- Final 3 nucleotides as a triplet



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

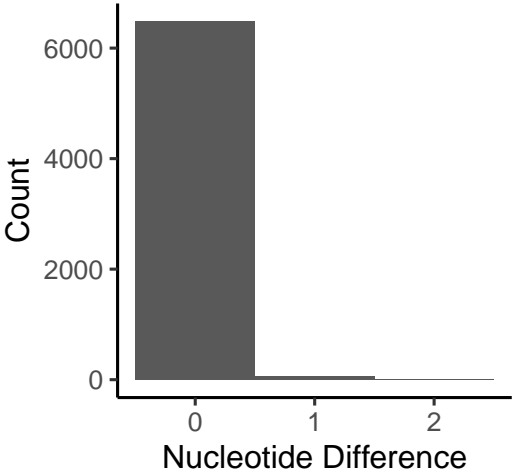


TRBV7-8\*ap03\_C297G\_G303T- Final 3 nucleotides as a triplet



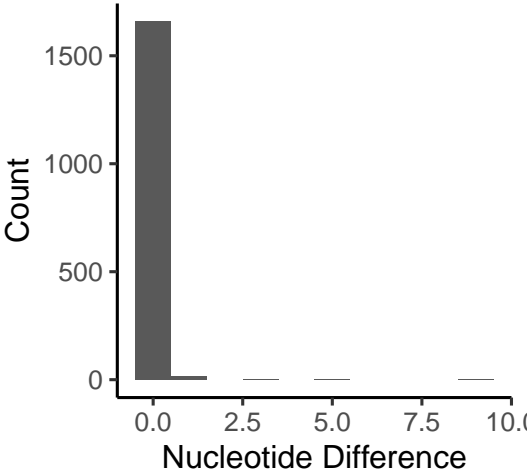
TRBV20-1\*ap01

6547 sequences assigned  
6483 (99%) exact matches, in which:  
6348 unique CDR3  
13 unique J



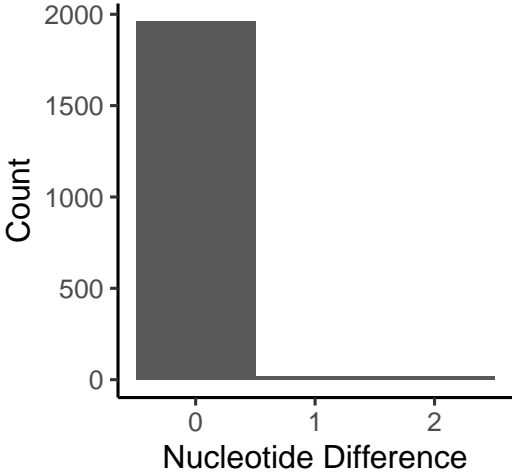
TRBV10-2\*ap01

1680 sequences assigned  
1659 (98.8%) exact matches, in which:  
1624 unique CDR3  
13 unique J



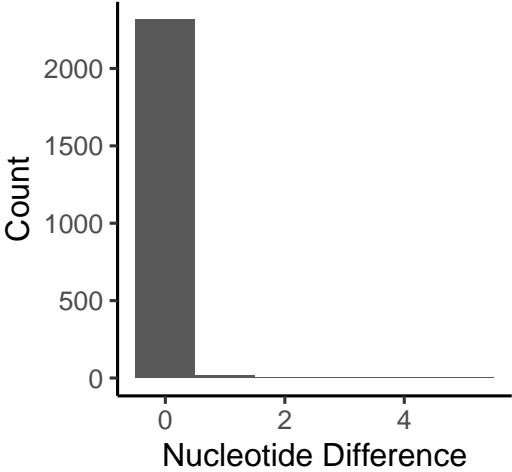
TRBV13\*ap01

2000 sequences assigned  
1961 (98%) exact matches, in which:  
1902 unique CDR3  
13 unique J



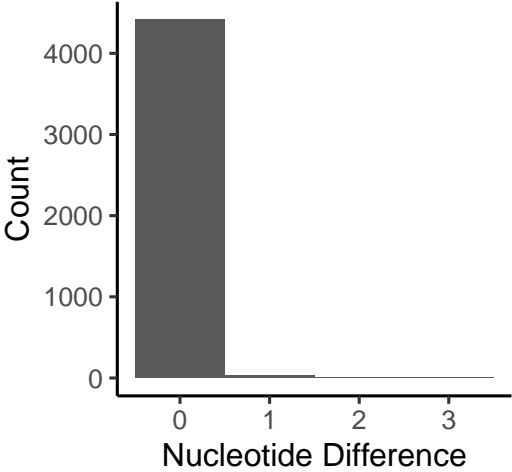
TRBV10-1\*ap01

2336 sequences assigned  
2315 (99.1%) exact matches, in which:  
2264 unique CDR3  
13 unique J



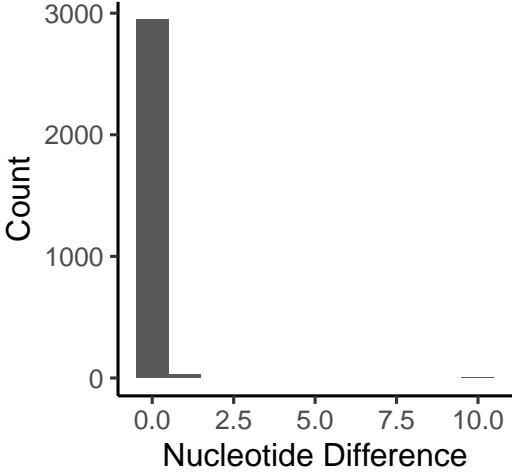
TRBV10-3\*ap01

4454 sequences assigned  
4414 (99.1%) exact matches, in which:  
4299 unique CDR3  
13 unique J



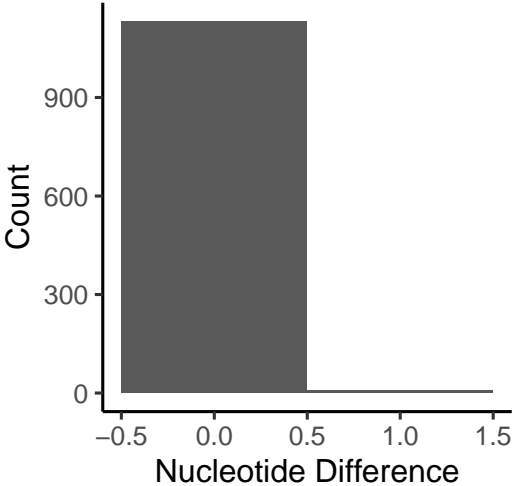
TRBV14\*ap01

2977 sequences assigned  
2946 (99%) exact matches, in which:  
2867 unique CDR3  
13 unique J



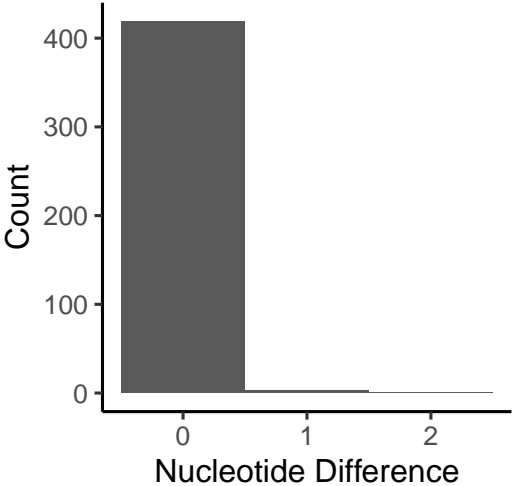
TRBV20-1\*ap02

1140 sequences assigned  
1132 (99.3%) exact matches, in which:  
1102 unique CDR3  
13 unique J



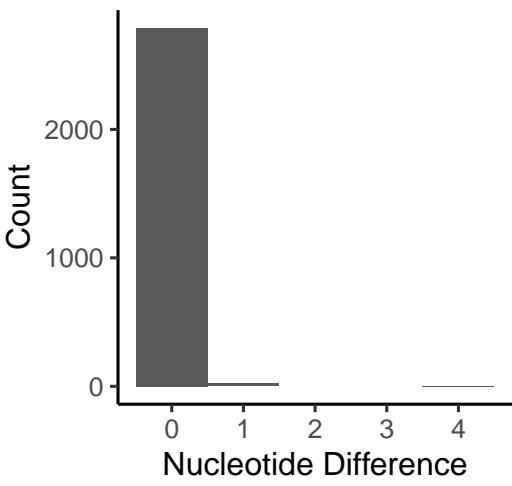
TRBV1\*ap01

423 sequences assigned  
419 (99.1%) exact matches, in which:  
409 unique CDR3  
13 unique J



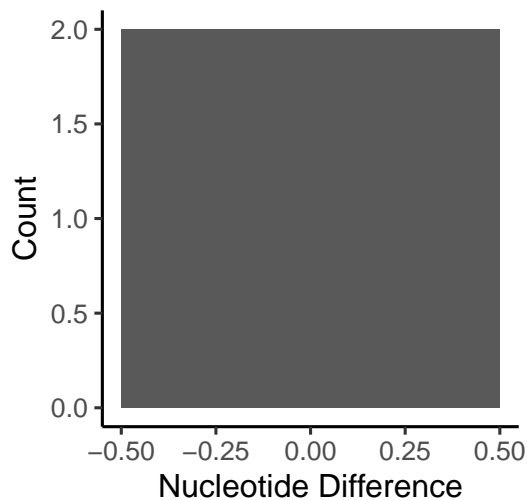
TRBV15\*ap02

2811 sequences assigned  
2789 (99.2%) exact matches, in which:  
2694 unique CDR3  
13 unique J



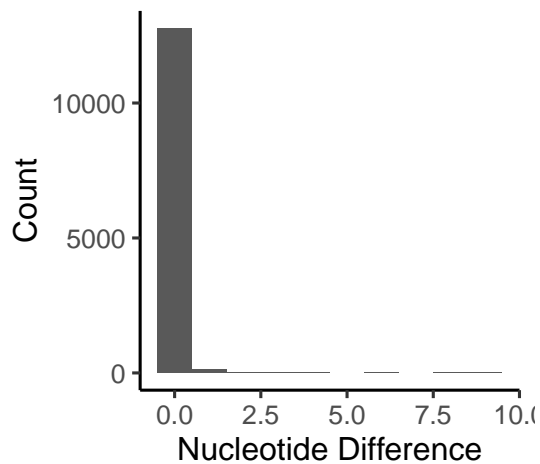
### TRBV16\*ap01

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



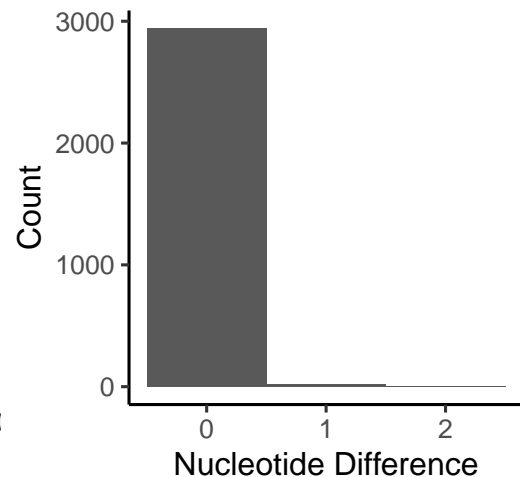
### TRBV19\*ap01

12907 sequences assigned  
12774 (99%) exact matches, in which:  
12594 unique CDR3  
13 unique J



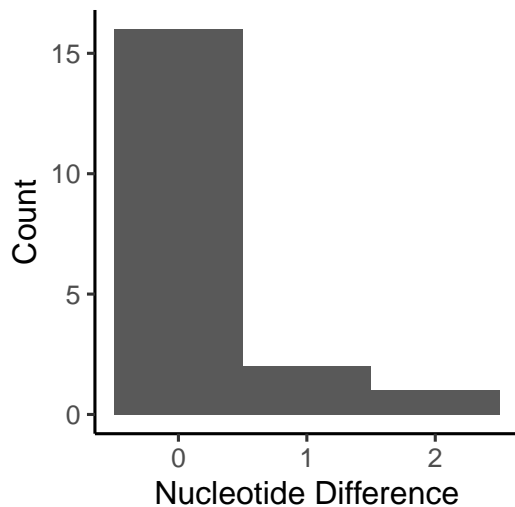
### TRBV28\*ap01

2964 sequences assigned  
2941 (99.2%) exact matches, in which:  
2874 unique CDR3  
13 unique J



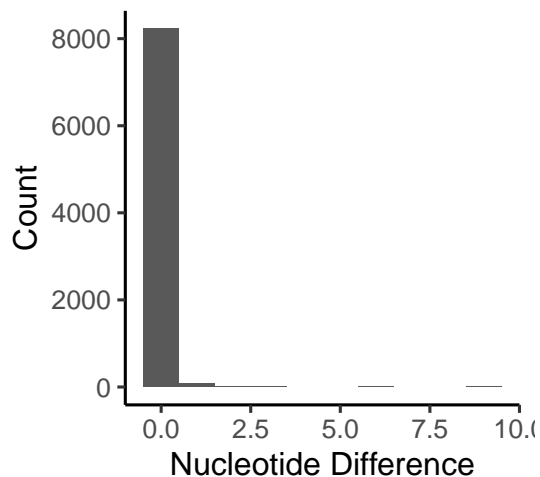
### TRBV17\*ap01

19 sequences assigned  
16 (84.2%) exact matches, in which:  
16 unique CDR3  
9 unique J



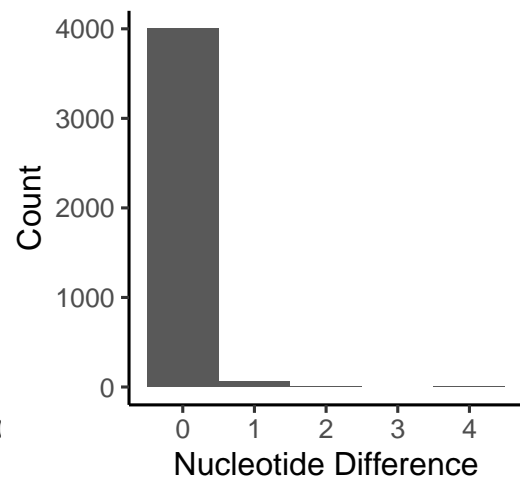
### TRBV2\*ap01

8315 sequences assigned  
8228 (99%) exact matches, in which:  
8027 unique CDR3  
13 unique J



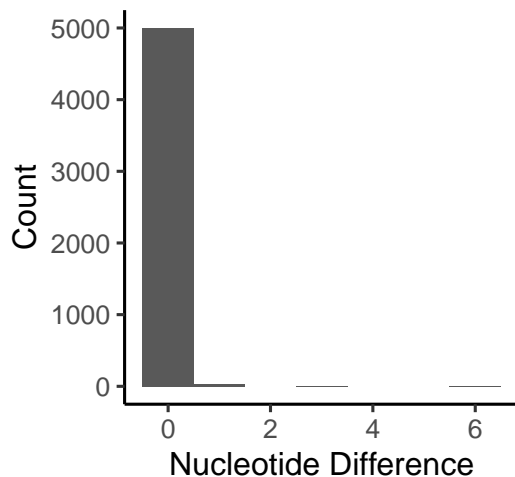
### TRBV30\*ap01

4067 sequences assigned  
4001 (98.4%) exact matches, in which:  
3903 unique CDR3  
13 unique J



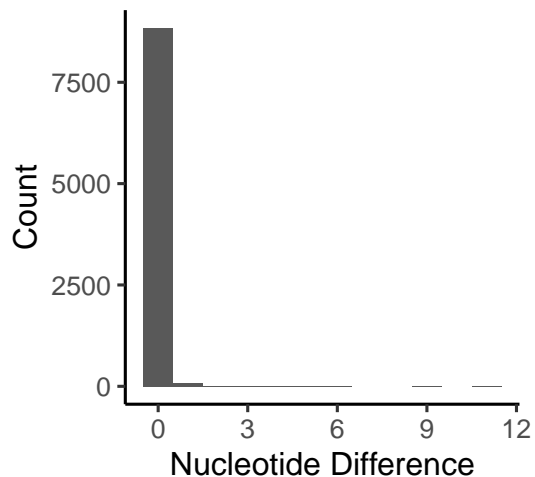
### TRBV18\*ap01

5032 sequences assigned  
4999 (99.3%) exact matches, in which:  
4899 unique CDR3  
13 unique J



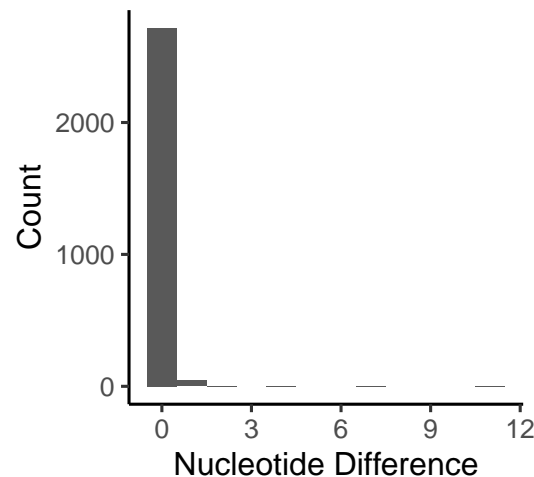
### TRBV27\*ap01

8933 sequences assigned  
8838 (98.9%) exact matches, in which:  
8586 unique CDR3  
13 unique J



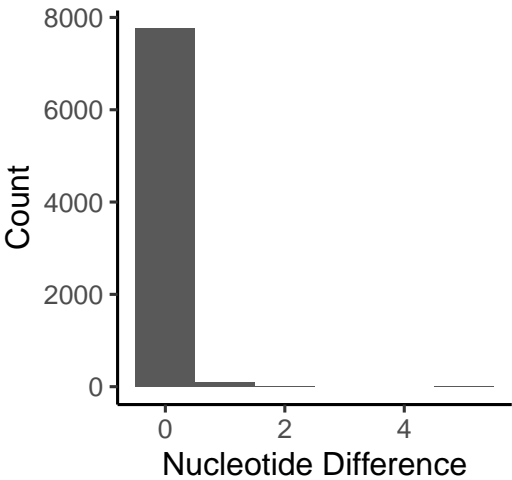
### TRBV30\*ap02

2765 sequences assigned  
2716 (98.2%) exact matches, in which:  
2655 unique CDR3  
13 unique J



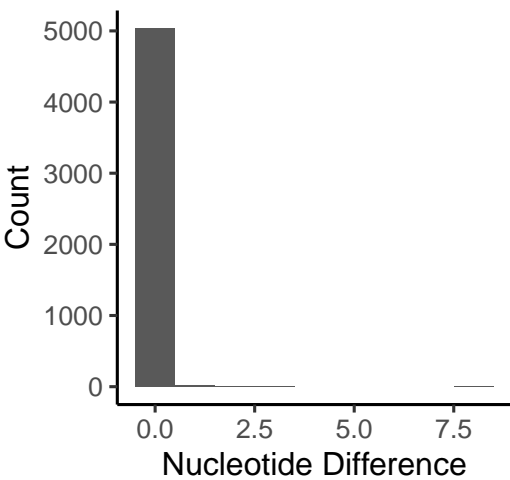
TRBV9\*ap01

7852 sequences assigned  
7762 (98.9%) exact matches, in which:  
7585 unique CDR3  
13 unique J



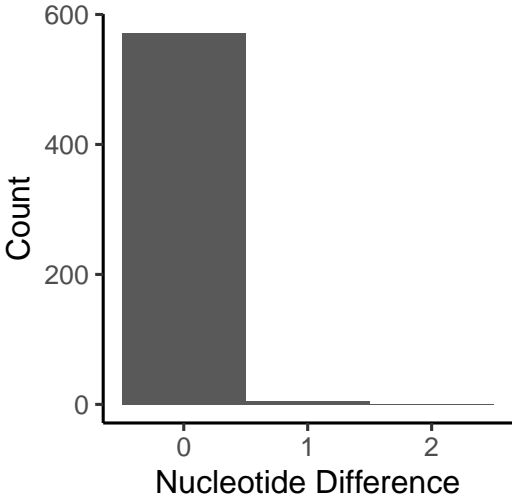
TRBV11-2\*ap01

5062 sequences assigned  
5035 (99.5%) exact matches, in which:  
4950 unique CDR3  
13 unique J



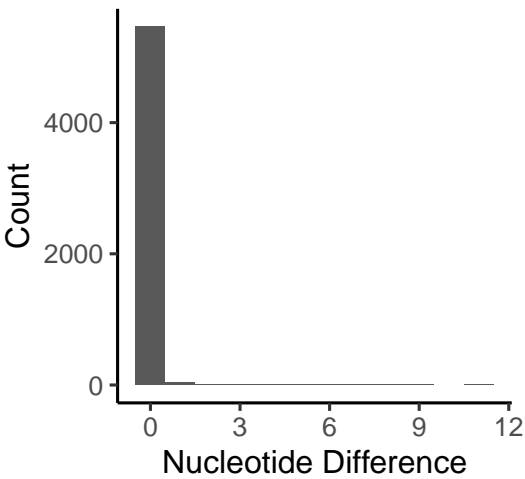
TRBV12-2\*ap01

578 sequences assigned  
572 (99%) exact matches, in which:  
563 unique CDR3  
13 unique J



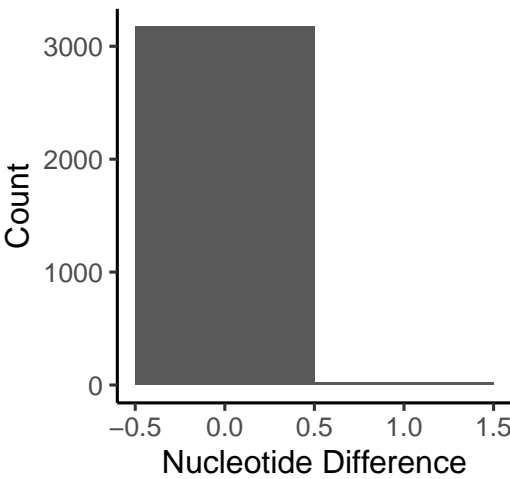
TRBV21-1\*ap01

5549 sequences assigned  
5462 (98.4%) exact matches, in which:  
5358 unique CDR3  
13 unique J



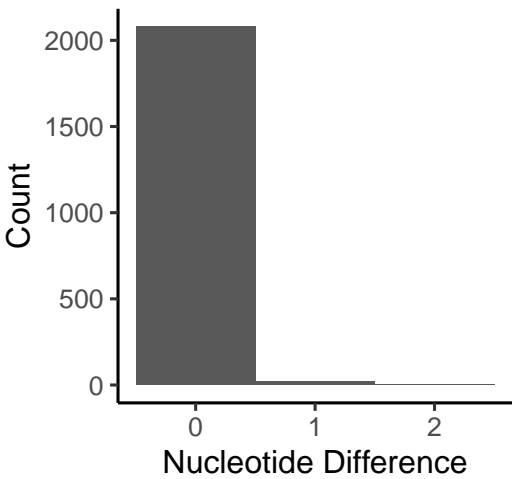
TRBV11-3\*ap01

3194 sequences assigned  
3173 (99.3%) exact matches, in which:  
3130 unique CDR3  
13 unique J



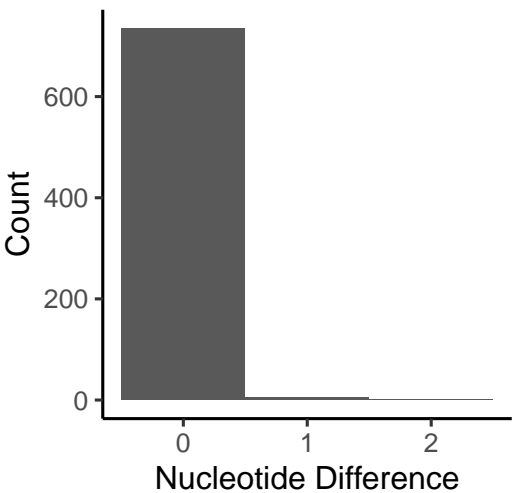
TRBV12-5\*ap01

2100 sequences assigned  
2079 (99%) exact matches, in which:  
2024 unique CDR3  
13 unique J



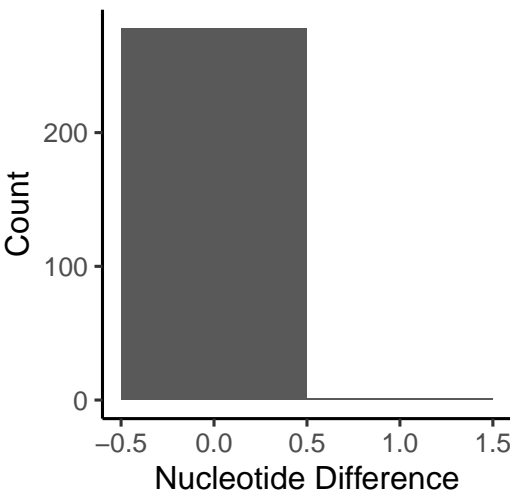
TRBV11-1\*ap01

741 sequences assigned  
735 (99.2%) exact matches, in which:  
725 unique CDR3  
13 unique J



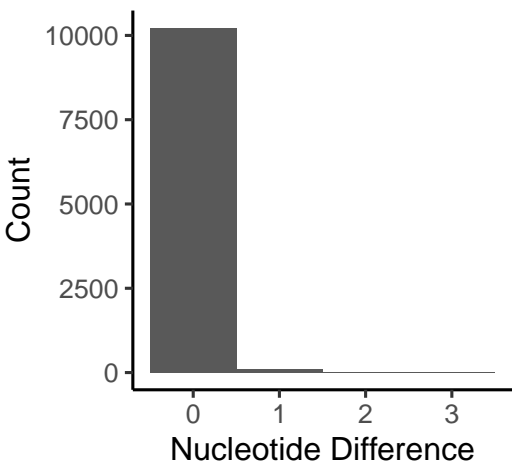
TRBV12-1\*ap01

279 sequences assigned  
278 (99.6%) exact matches, in which:  
269 unique CDR3  
13 unique J



TRBV12-34\*ap01

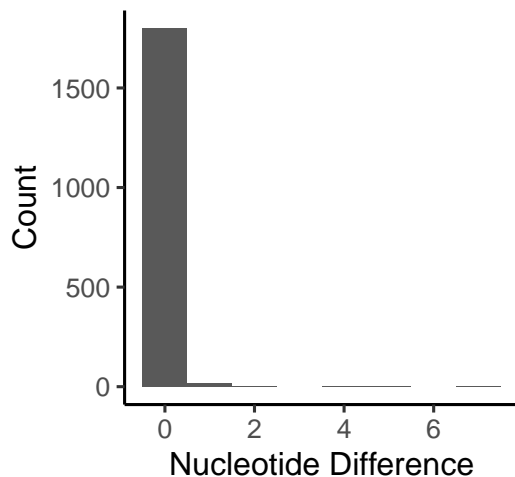
10332 sequences assigned  
10226 (99%) exact matches, in which:  
9980 unique CDR3  
13 unique J





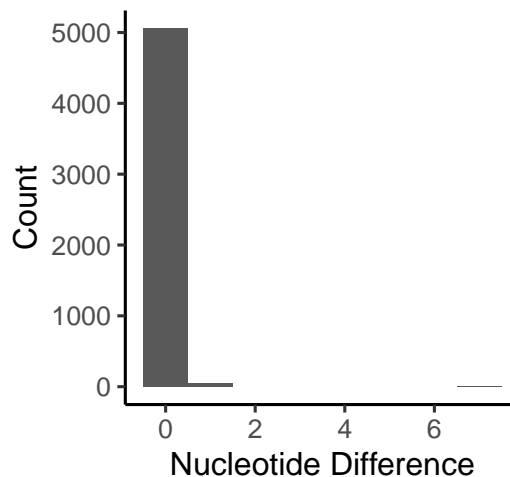
### TRBV23-1\*ap01

1824 sequences assigned  
1799 (98.6%) exact matches, in which:  
1751 unique CDR3  
13 unique J



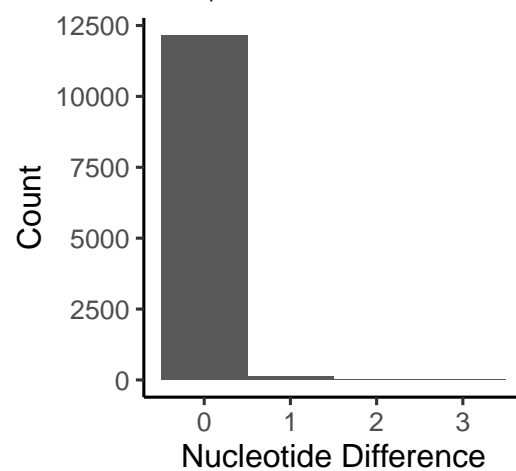
### TRBV4-1\*ap01

5112 sequences assigned  
5058 (98.9%) exact matches, in which:  
4903 unique CDR3  
13 unique J



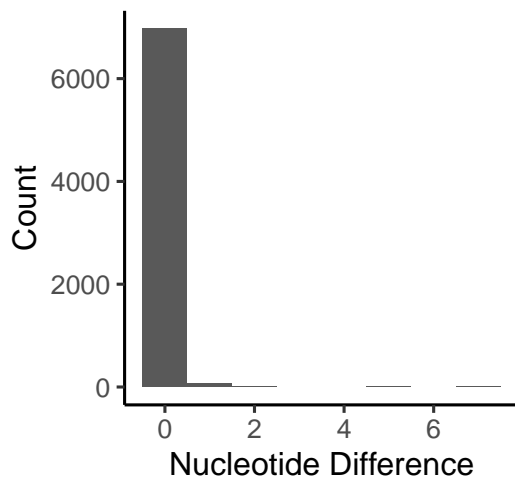
### TRBV5-1\*ap01

12303 sequences assigned  
12160 (98.8%) exact matches, in which:  
11783 unique CDR3  
13 unique J



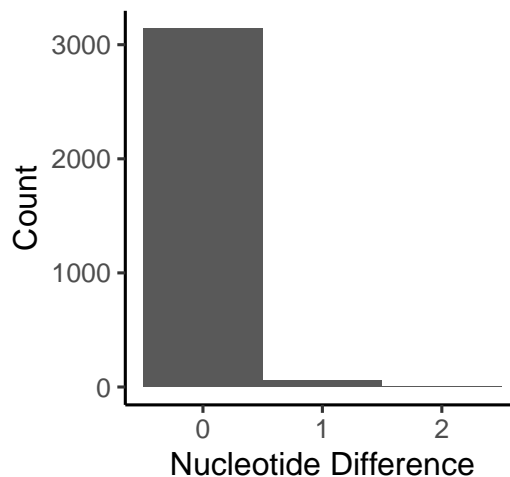
### TRBV3-12\*ap01

7035 sequences assigned  
6971 (99.1%) exact matches, in which:  
6846 unique CDR3  
13 unique J



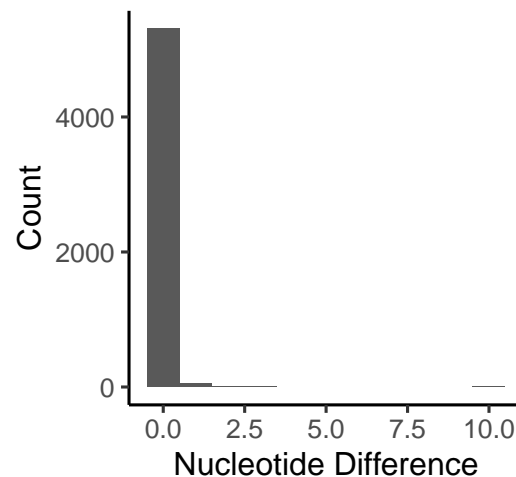
### TRBV4-2\*ap01

3197 sequences assigned  
3140 (98.2%) exact matches, in which:  
3054 unique CDR3  
13 unique J



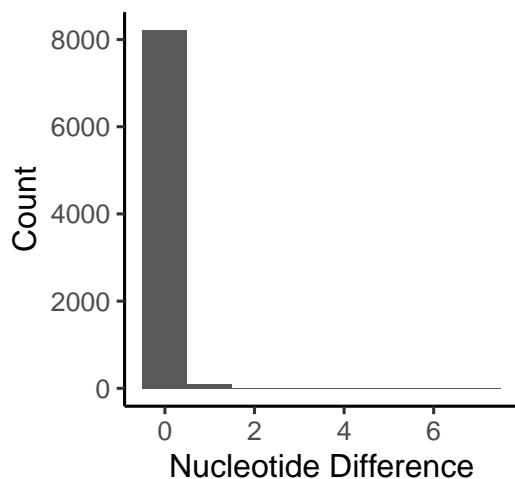
### TRBV25-1\*ap01

5370 sequences assigned  
5307 (98.8%) exact matches, in which:  
5146 unique CDR3  
13 unique J



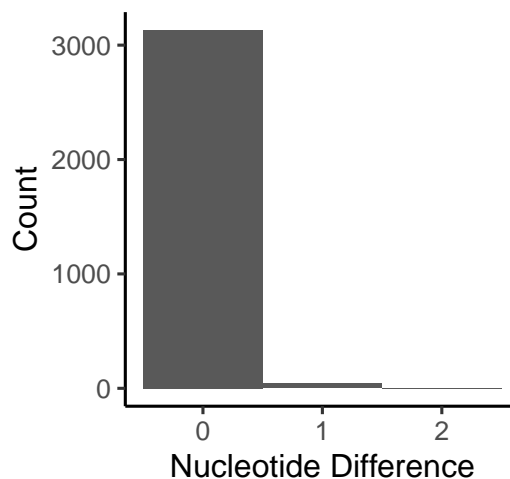
### TRBV24-1\*ap01

8339 sequences assigned  
8217 (98.5%) exact matches, in which:  
8015 unique CDR3  
13 unique J



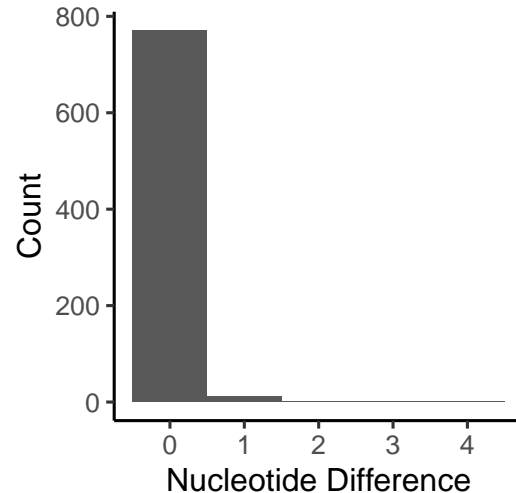
### TRBV4-3\*ap01

3176 sequences assigned  
3132 (98.6%) exact matches, in which:  
3031 unique CDR3  
13 unique J



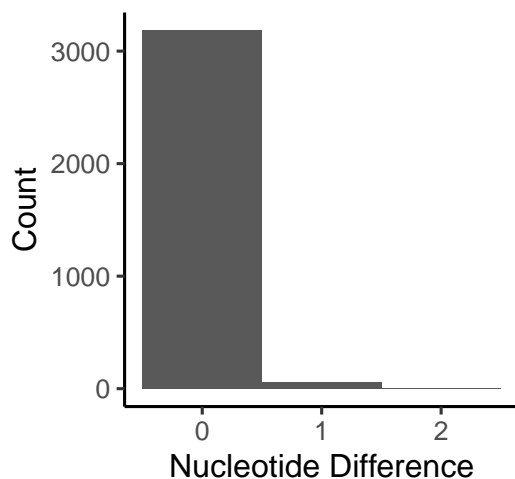
### TRBV5-3\*ap01

786 sequences assigned  
771 (98.1%) exact matches, in which:  
757 unique CDR3  
13 unique J



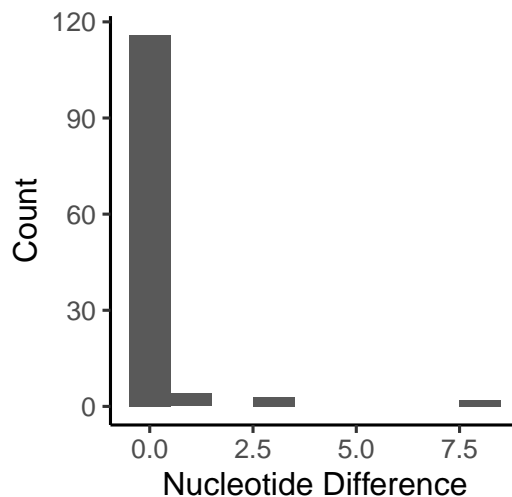
### TRBV5-4\*ap01

3242 sequences assigned  
3184 (98.2%) exact matches, in which:  
3123 unique CDR3  
13 unique J



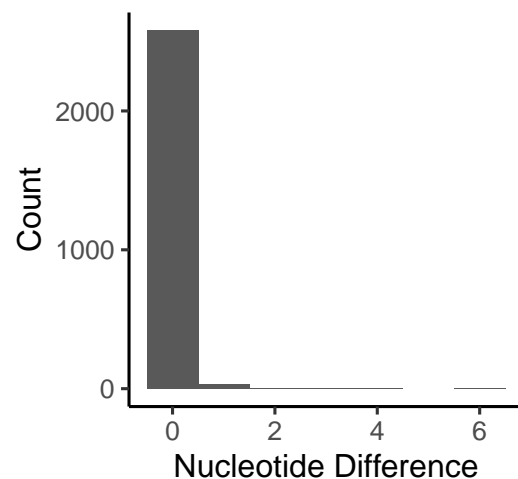
### TRBV5-7\*ap01

125 sequences assigned  
116 (92.8%) exact matches, in which:  
114 unique CDR3  
12 unique J



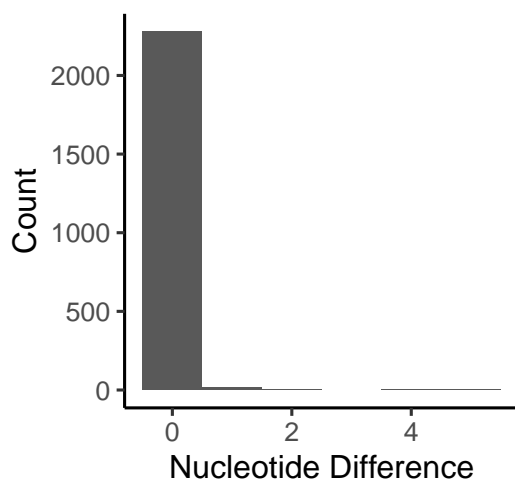
### TRBV6-4\*ap01

2623 sequences assigned  
2580 (98.4%) exact matches, in which:  
2524 unique CDR3  
13 unique J



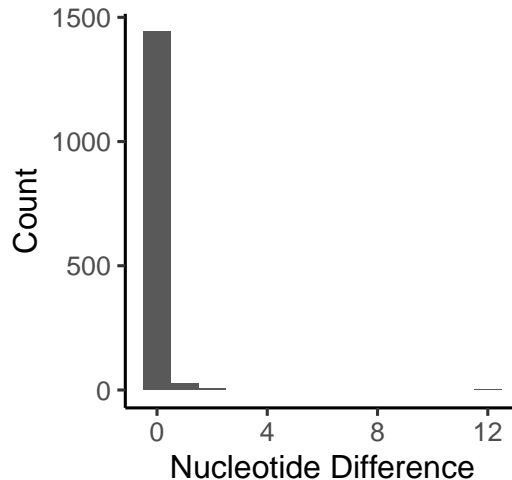
### TRBV5-5\*ap01

2300 sequences assigned  
2278 (99%) exact matches, in which:  
2251 unique CDR3  
13 unique J



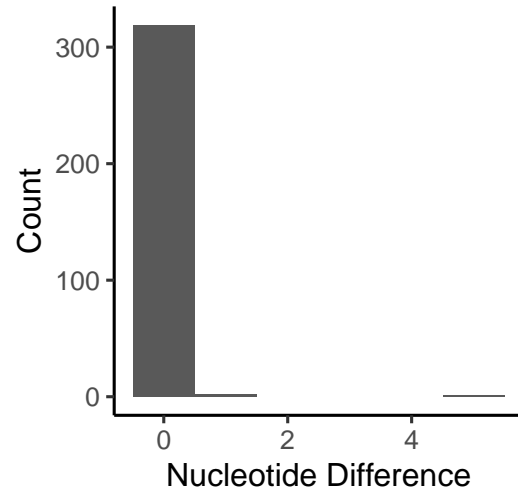
### TRBV5-8\*ap01

1476 sequences assigned  
1442 (97.7%) exact matches, in which:  
1422 unique CDR3  
13 unique J



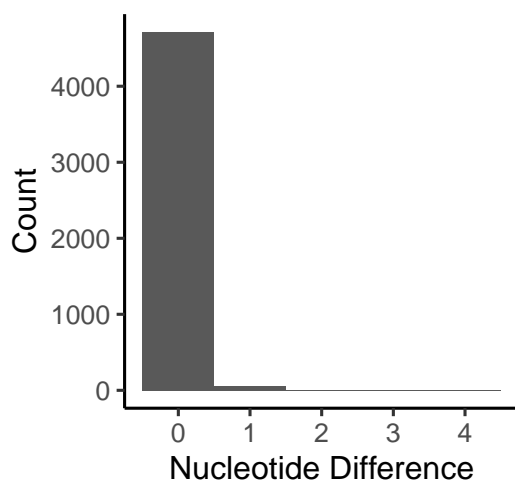
### TRBV6-7\*ap01

322 sequences assigned  
319 (99.1%) exact matches, in which:  
307 unique CDR3  
13 unique J



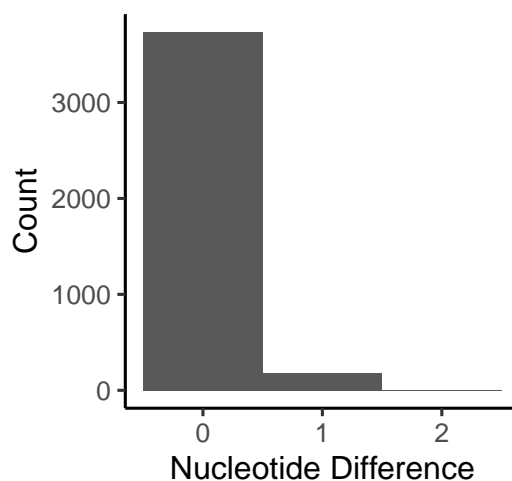
### TRBV5-6\*ap01

4774 sequences assigned  
4713 (98.7%) exact matches, in which:  
4562 unique CDR3  
13 unique J



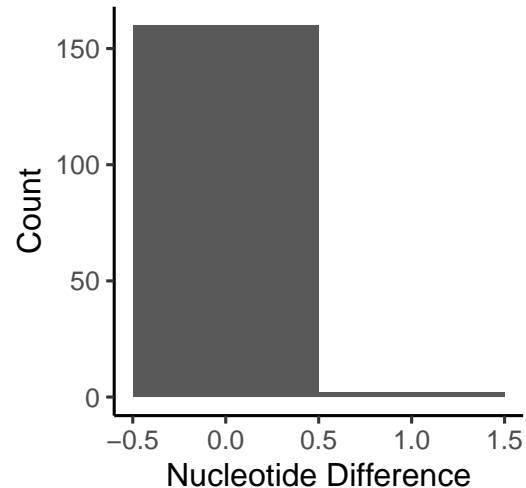
### TRBV6-1\*ap01

3918 sequences assigned  
3734 (95.3%) exact matches, in which:  
3625 unique CDR3  
13 unique J



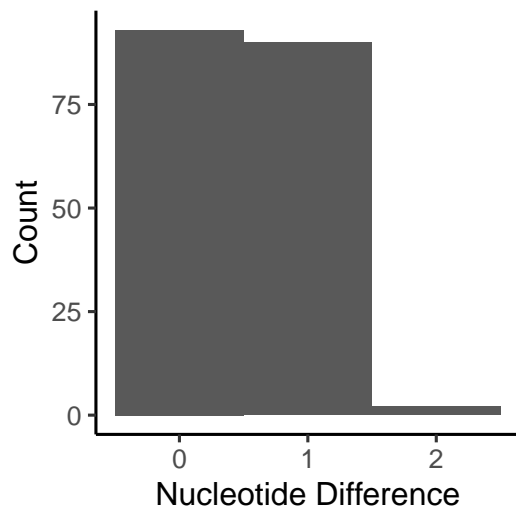
### TRBV6-8\*ap01

162 sequences assigned  
160 (98.8%) exact matches, in which:  
151 unique CDR3  
12 unique J



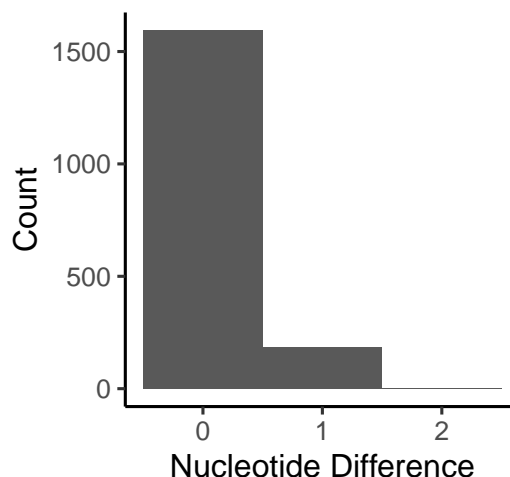
### TRBV6-9\*ap01

185 sequences assigned  
93 (50.3%) exact matches, in which:  
92 unique CDR3  
12 unique J



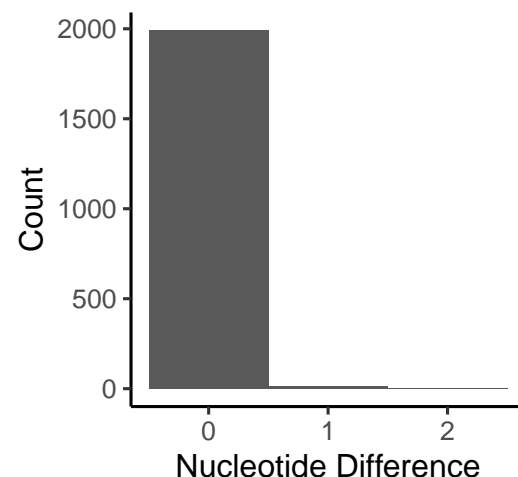
### TRBV6-56\*ap02

1782 sequences assigned  
1594 (89.5%) exact matches, in which:  
1540 unique CDR3  
13 unique J



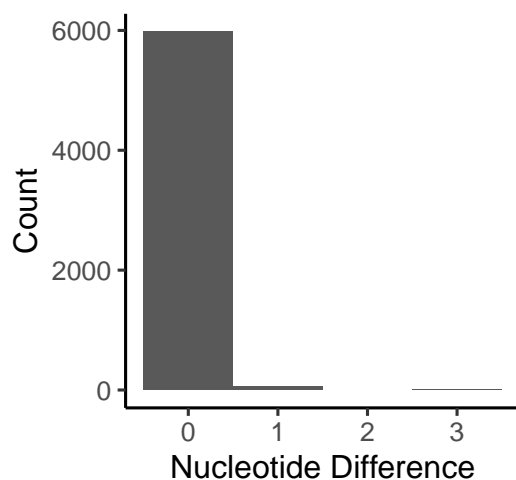
### TRBV7-2\*ap01

2005 sequences assigned  
1991 (99.3%) exact matches, in which:  
1950 unique CDR3  
13 unique J



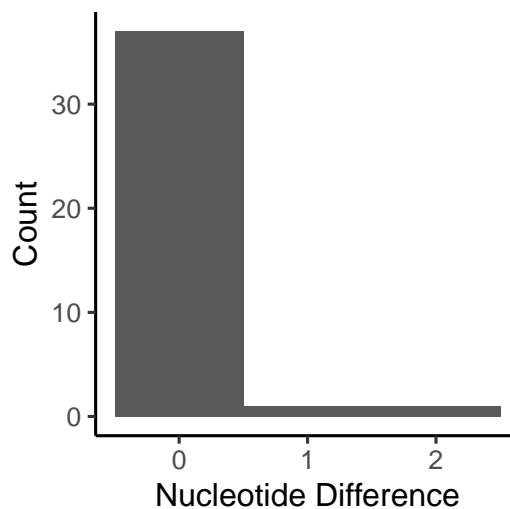
### TRBV6-23\*ap01

6032 sequences assigned  
5978 (99.1%) exact matches, in which:  
5785 unique CDR3  
13 unique J



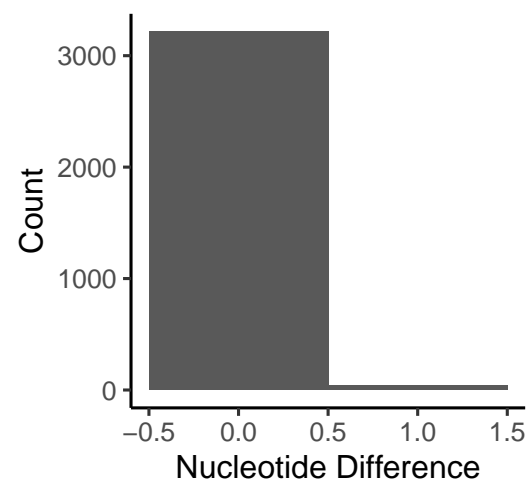
### TRBV7-1\*ap01\_G291C\_T

39 sequences assigned  
37 (94.9%) exact matches, in which:  
37 unique CDR3  
10 unique J



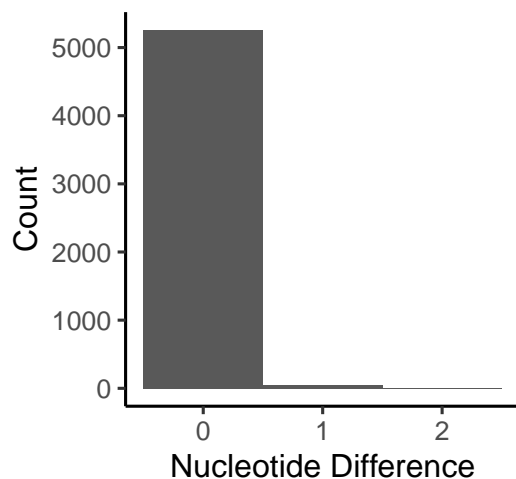
### TRBV7-2\*ap01\_G303T

3253 sequences assigned  
3215 (98.8%) exact matches, in which:  
3132 unique CDR3  
13 unique J



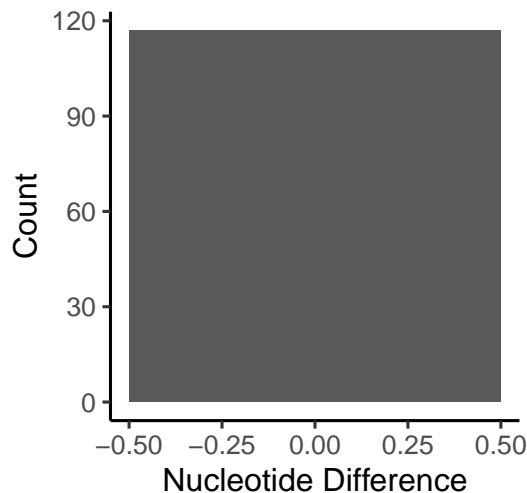
### TRBV6-56\*ap01

5311 sequences assigned  
5257 (99%) exact matches, in which:  
5093 unique CDR3  
13 unique J



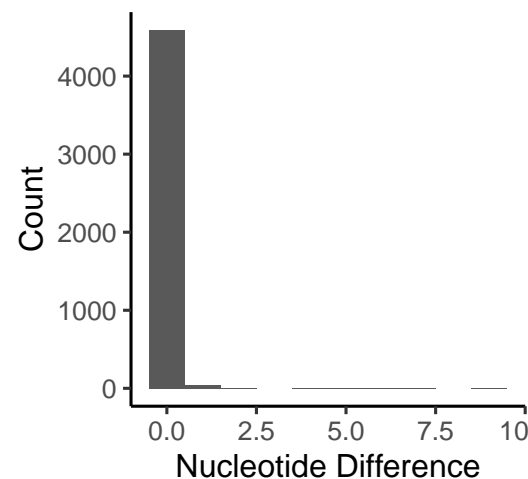
### TRBV7-1\*ap01\_G291C\_

117 sequences assigned  
117 (100%) exact matches, in which:  
113 unique CDR3  
12 unique J



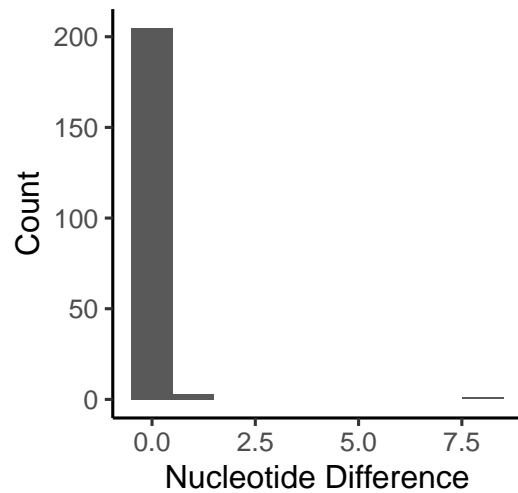
### TRBV7-3\*ap01

4640 sequences assigned  
4590 (98.9%) exact matches, in which:  
4489 unique CDR3  
13 unique J



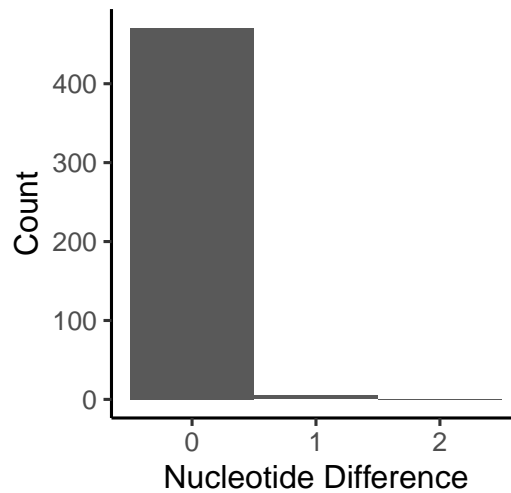
### TRBV7-4\*ap01

209 sequences assigned  
205 (98.1%) exact matches, in which:  
199 unique CDR3  
13 unique J



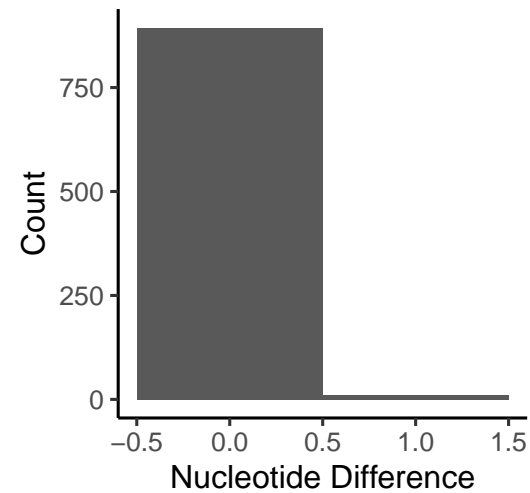
### TRBV7-7\*ap01\_C315T

477 sequences assigned  
471 (98.7%) exact matches, in which:  
461 unique CDR3  
13 unique J



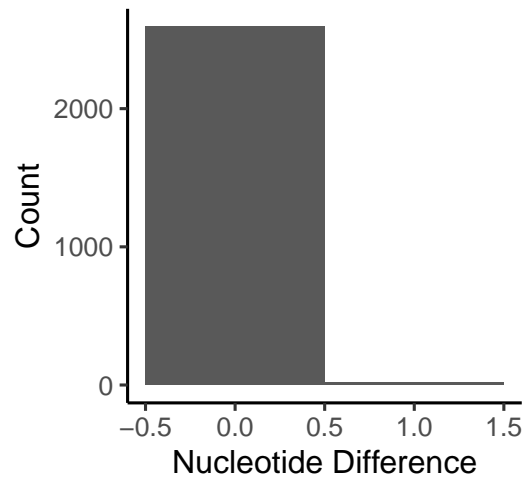
### TRBV7-8\*ap03\_C297G\_

904 sequences assigned  
894 (98.9%) exact matches, in which:  
867 unique CDR3  
13 unique J



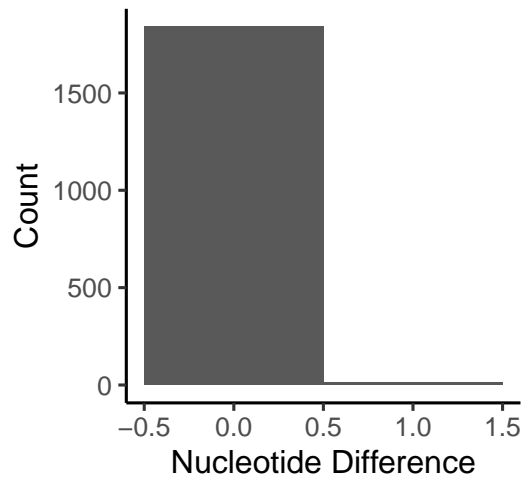
### TRBV7-6\*ap01

2609 sequences assigned  
2593 (99.4%) exact matches, in which:  
2520 unique CDR3  
13 unique J



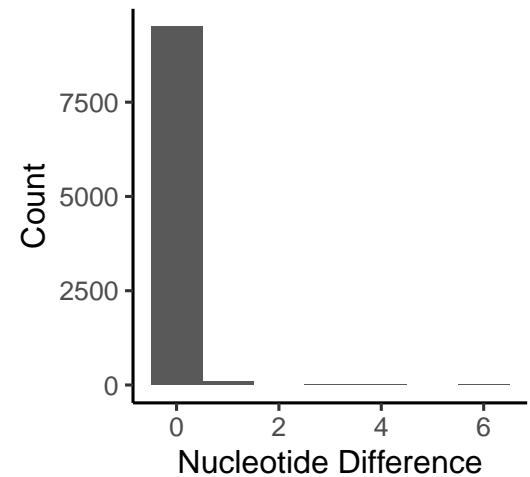
### TRBV7-8\*ap01

1851 sequences assigned  
1840 (99.4%) exact matches, in which:  
1790 unique CDR3  
13 unique J



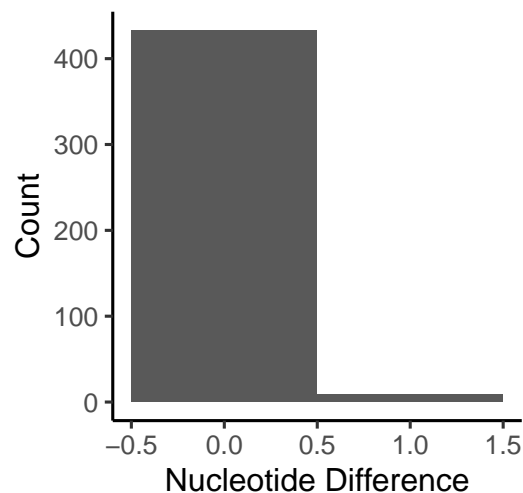
### TRBV7-9\*ap01

9588 sequences assigned  
9501 (99.1%) exact matches, in which:  
9258 unique CDR3  
13 unique J



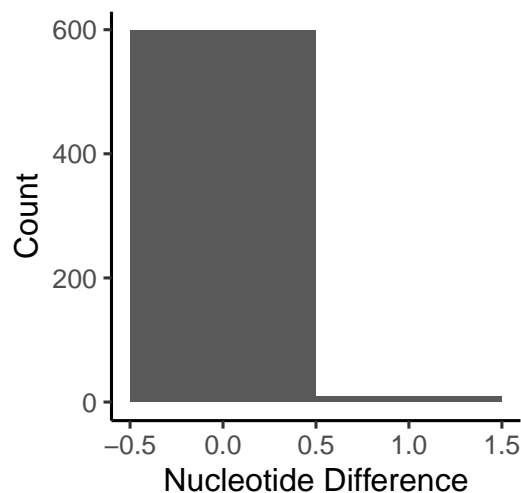
### TRBV7-7\*ap01

442 sequences assigned  
433 (98%) exact matches, in which:  
421 unique CDR3  
13 unique J



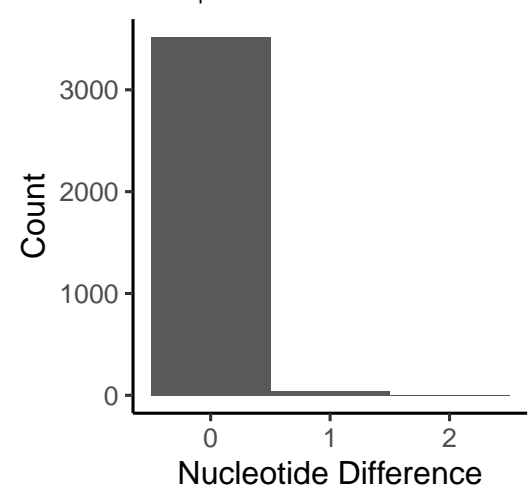
### TRBV7-8\*ap03

608 sequences assigned  
599 (98.5%) exact matches, in which:  
585 unique CDR3  
14 unique J



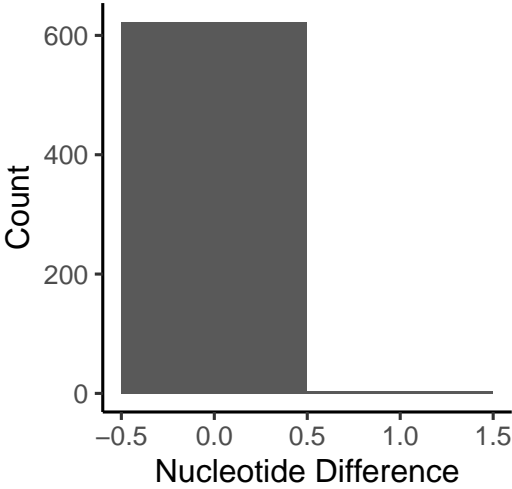
### TRBV29-1\*ap01

3562 sequences assigned  
3518 (98.8%) exact matches, in which:  
3443 unique CDR3  
13 unique J

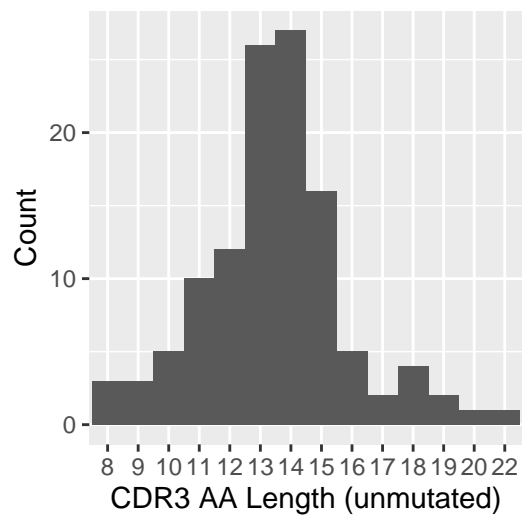


# TRBV29-1\*ap02

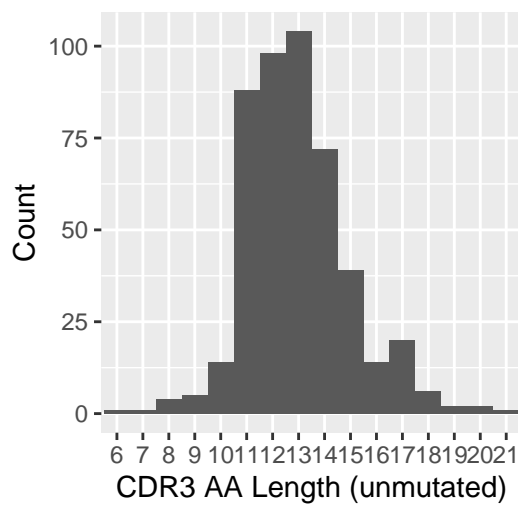
627 sequences assigned  
623 (99.4%) exact matches, in which:  
605 unique CDR3  
13 unique J



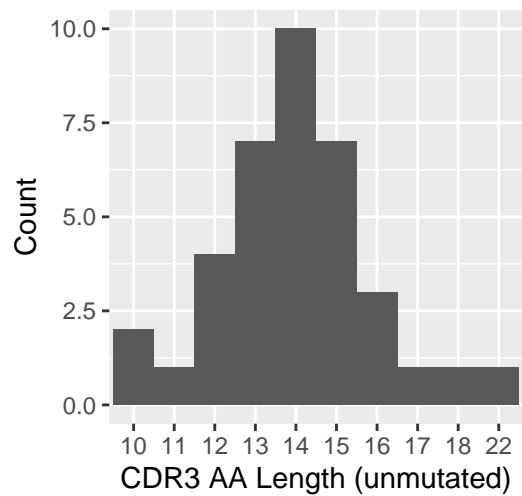
TRBV7-1\*ap01\_G291C\_T29



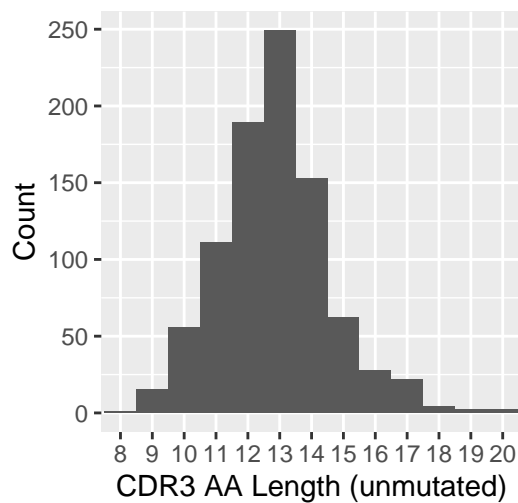
TRBV7-7\*ap01\_C315T



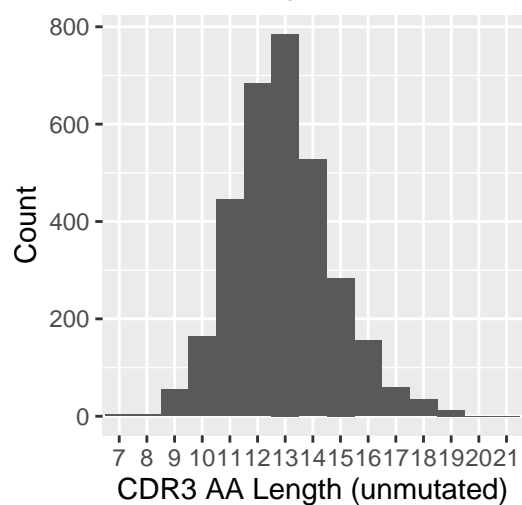
TRBV7-1\*ap01\_G291C\_T2

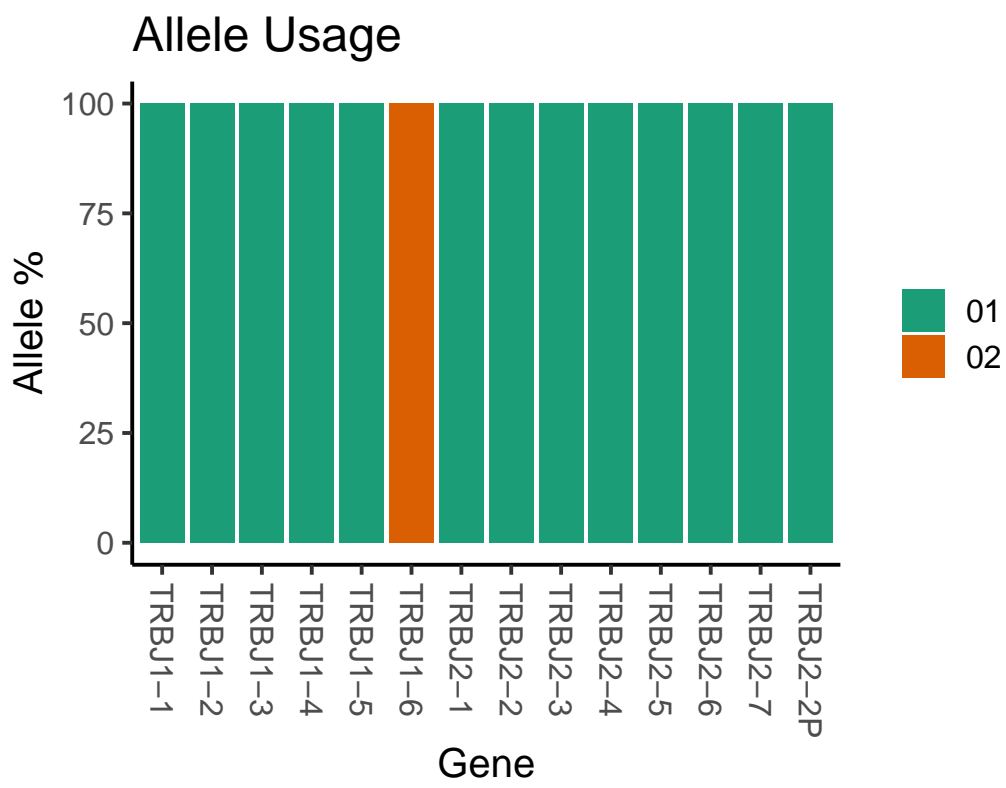


TRBV7-8\*ap03\_C297G\_G303T



TRBV7-2\*ap01\_G303T





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