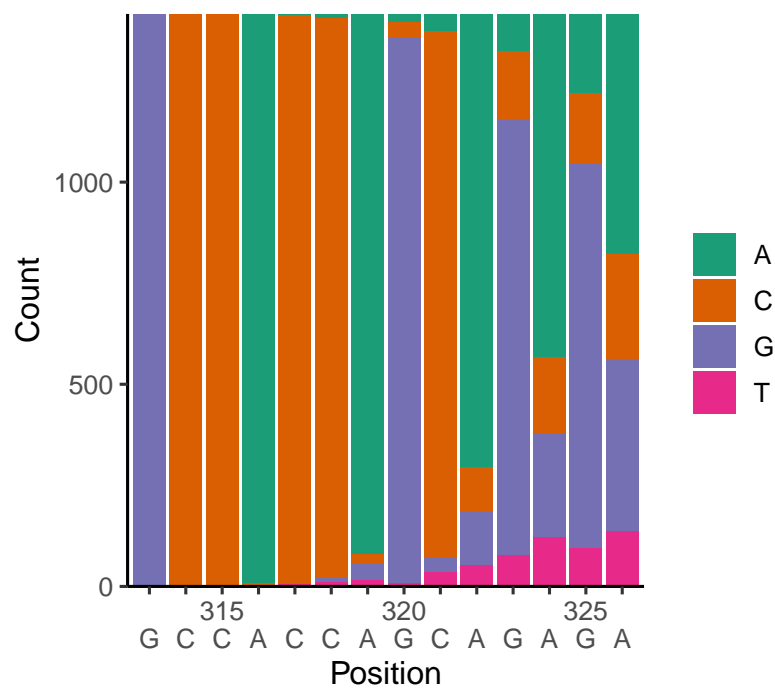
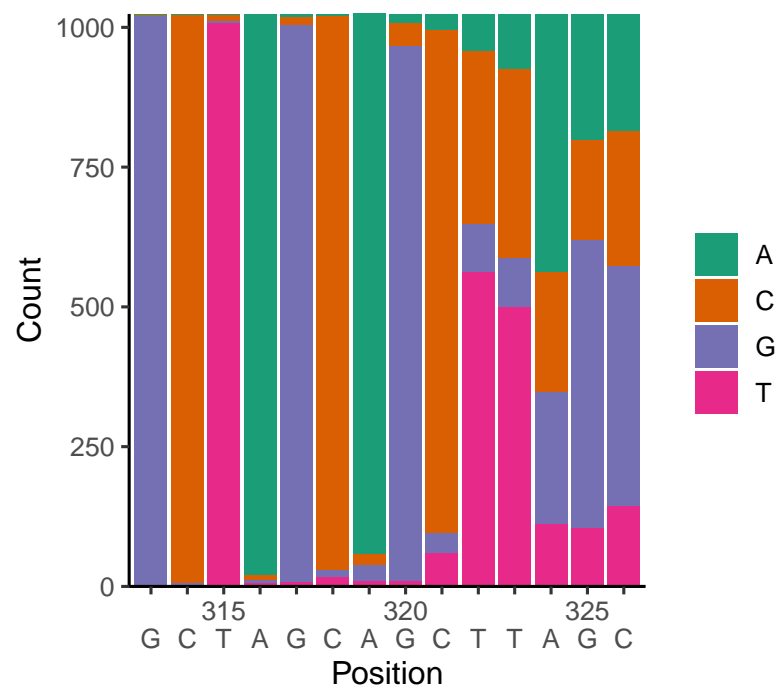


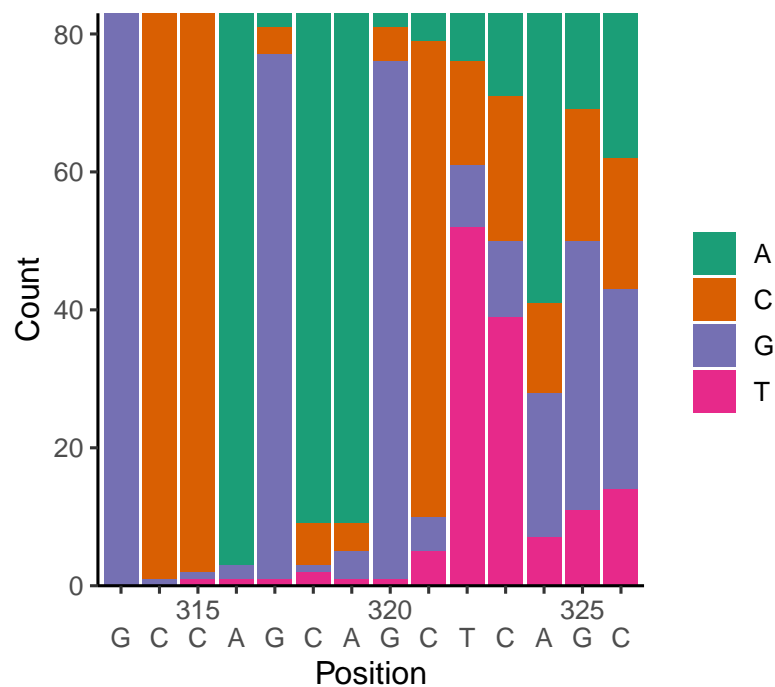
Gene TRBV15\*ap02\_C296T



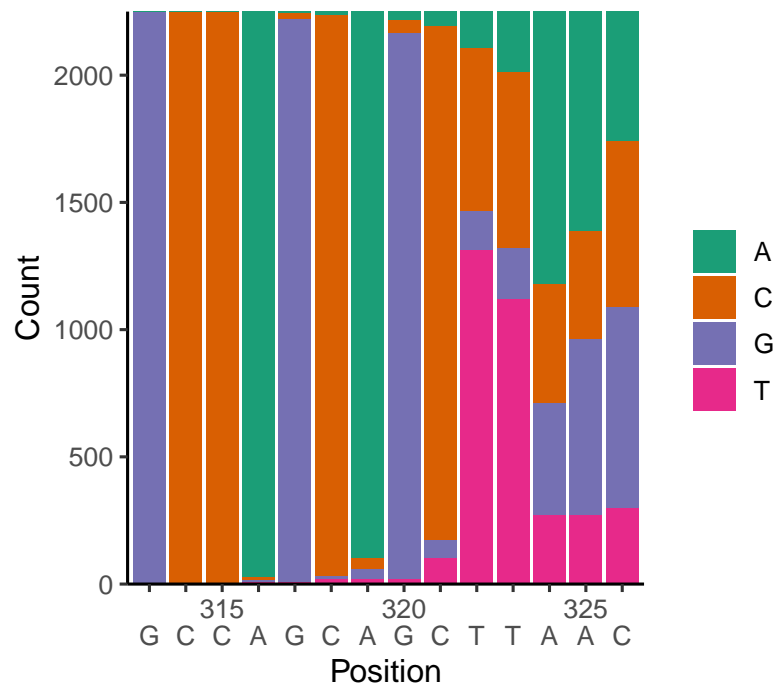
Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-3\*ap01\_G301A



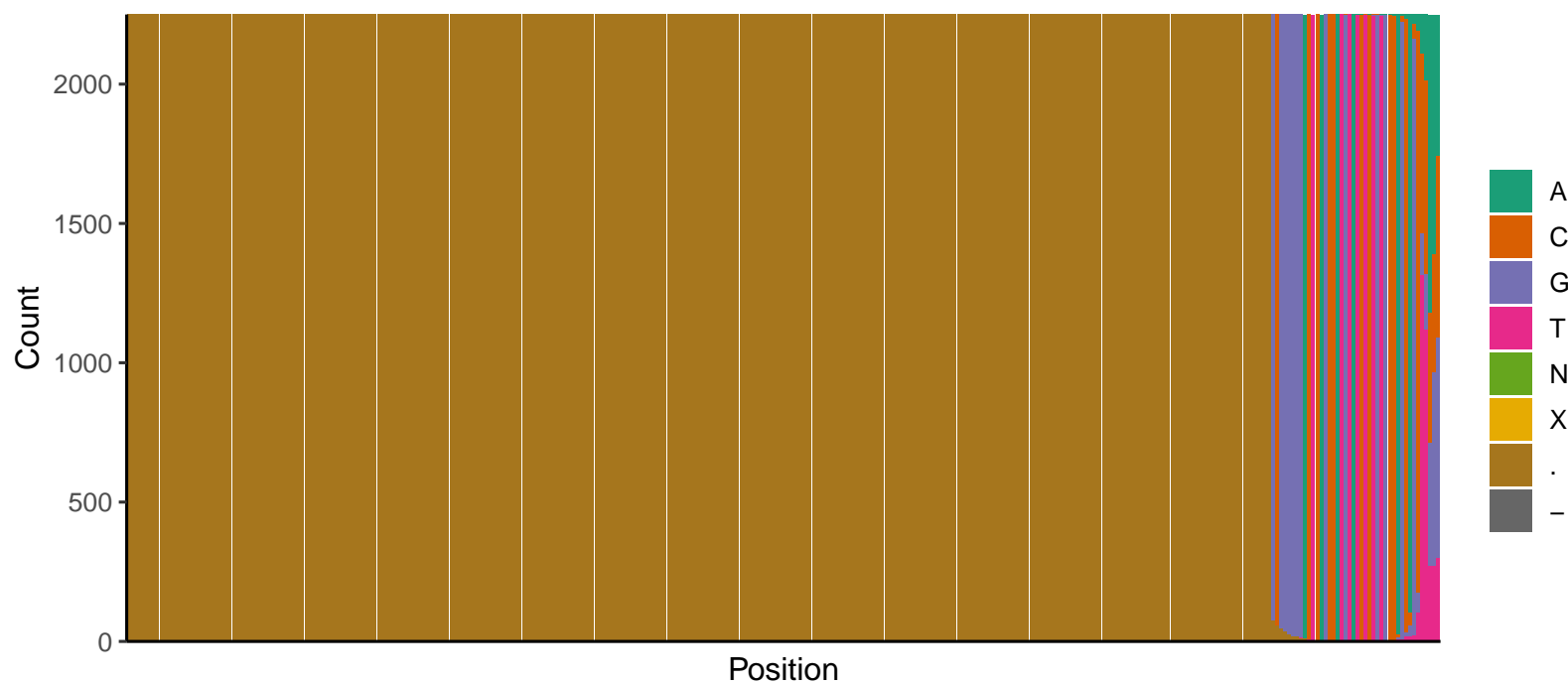
Gene TRBV15\*ap02\_C296T



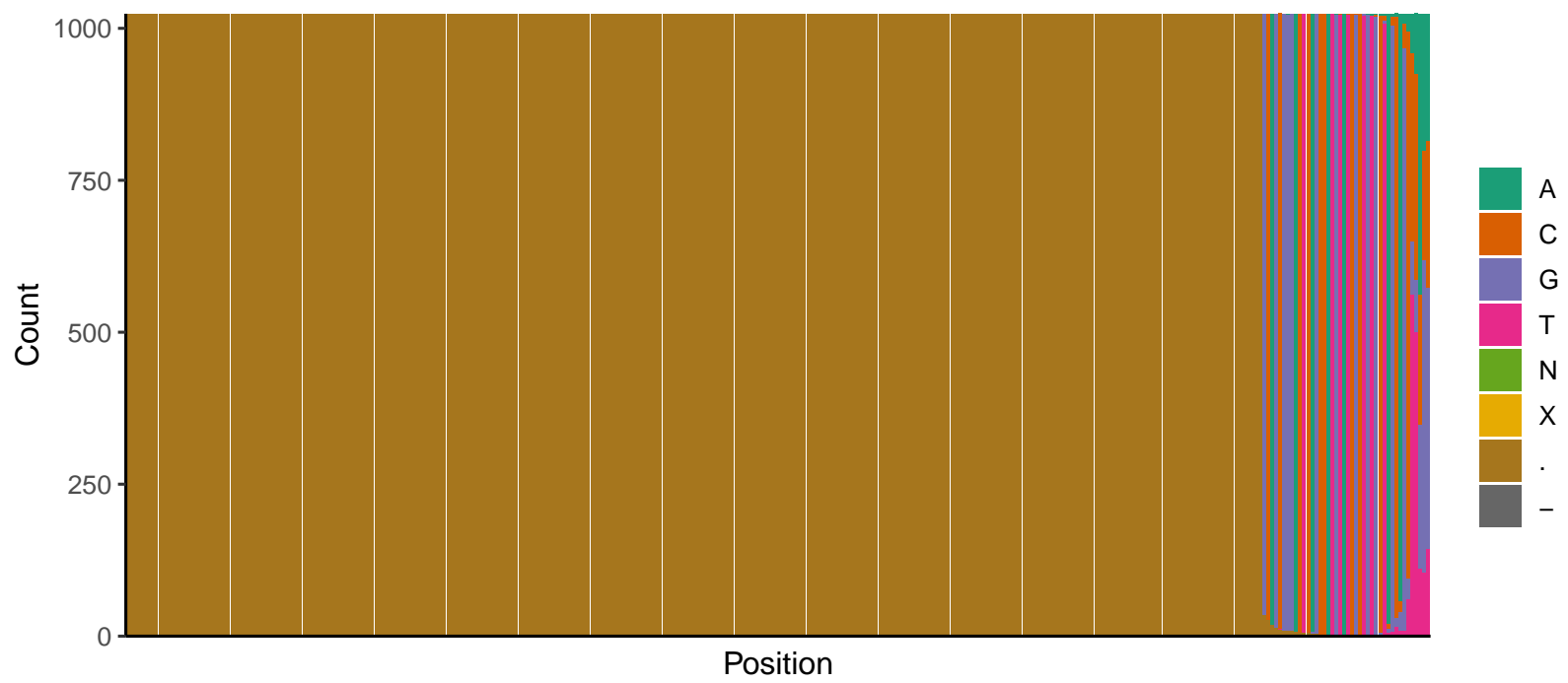
Gene TRBV7-1\*ap01\_G291C\_T296C



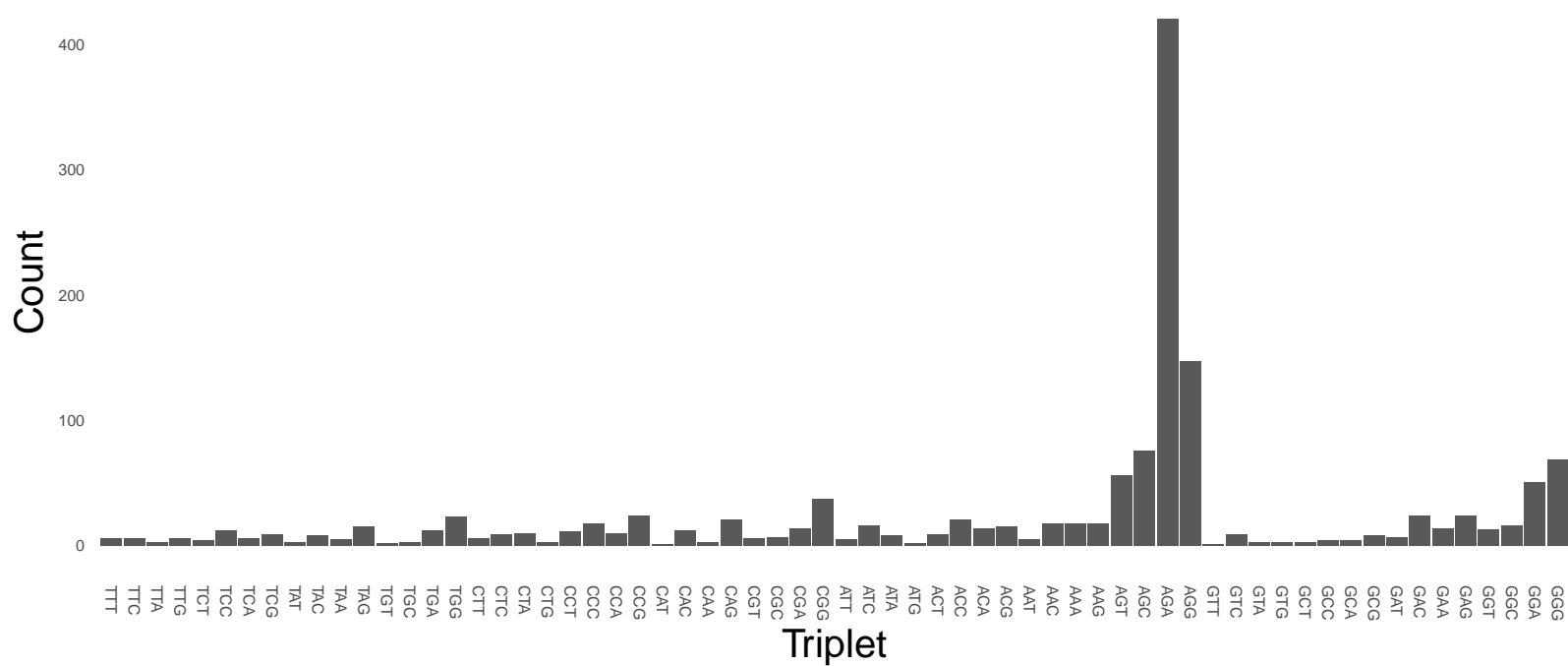
Gene TRBV7-3\*ap01\_G301A



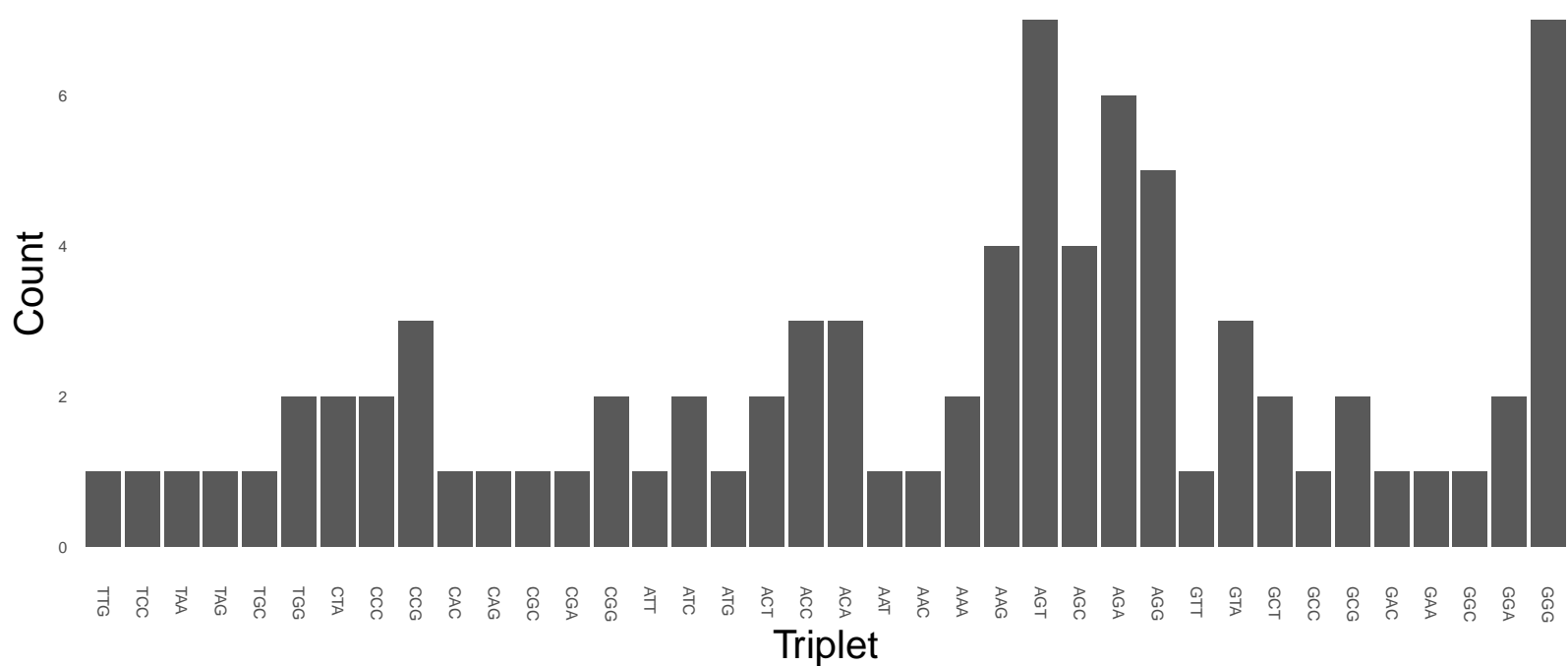
# Gene TRBV7-7\*ap01\_C315T



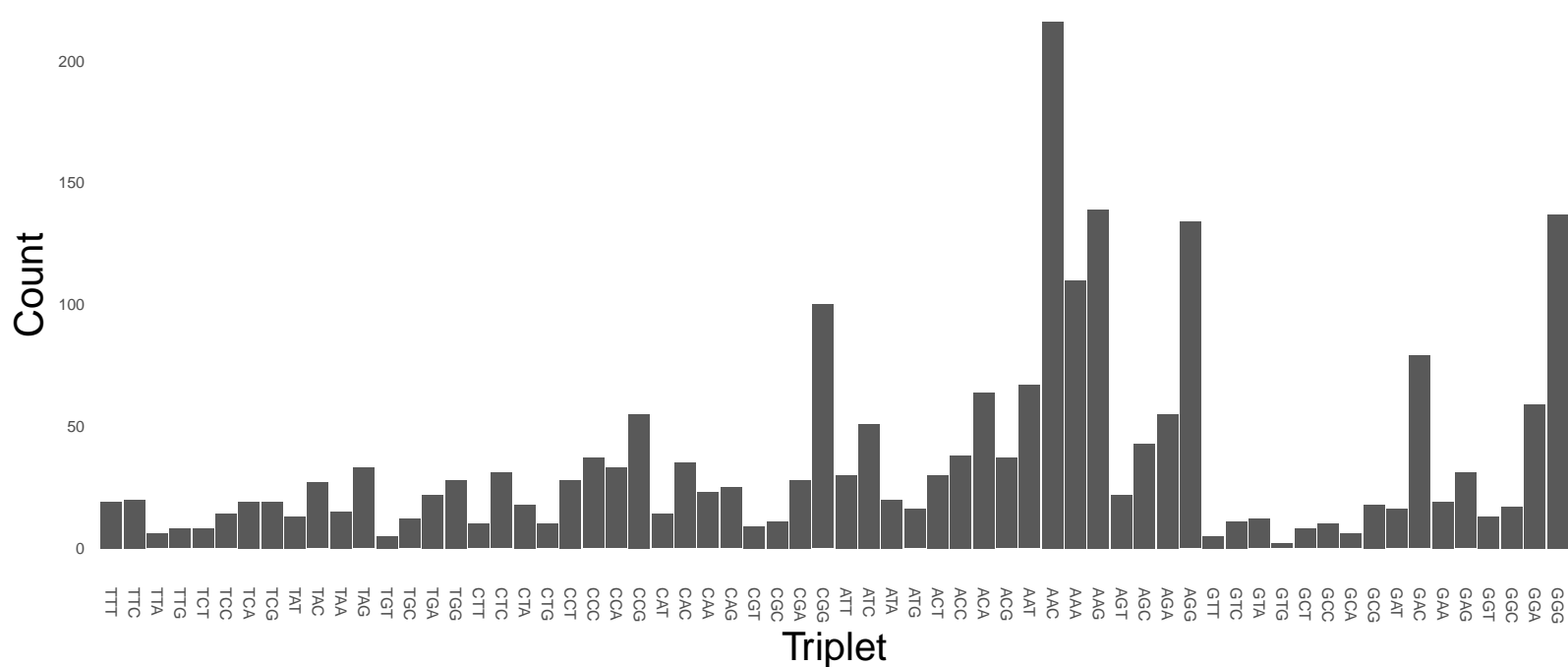
TRBV15\*ap02\_C296T– Final 3 nucleotides as a triplet



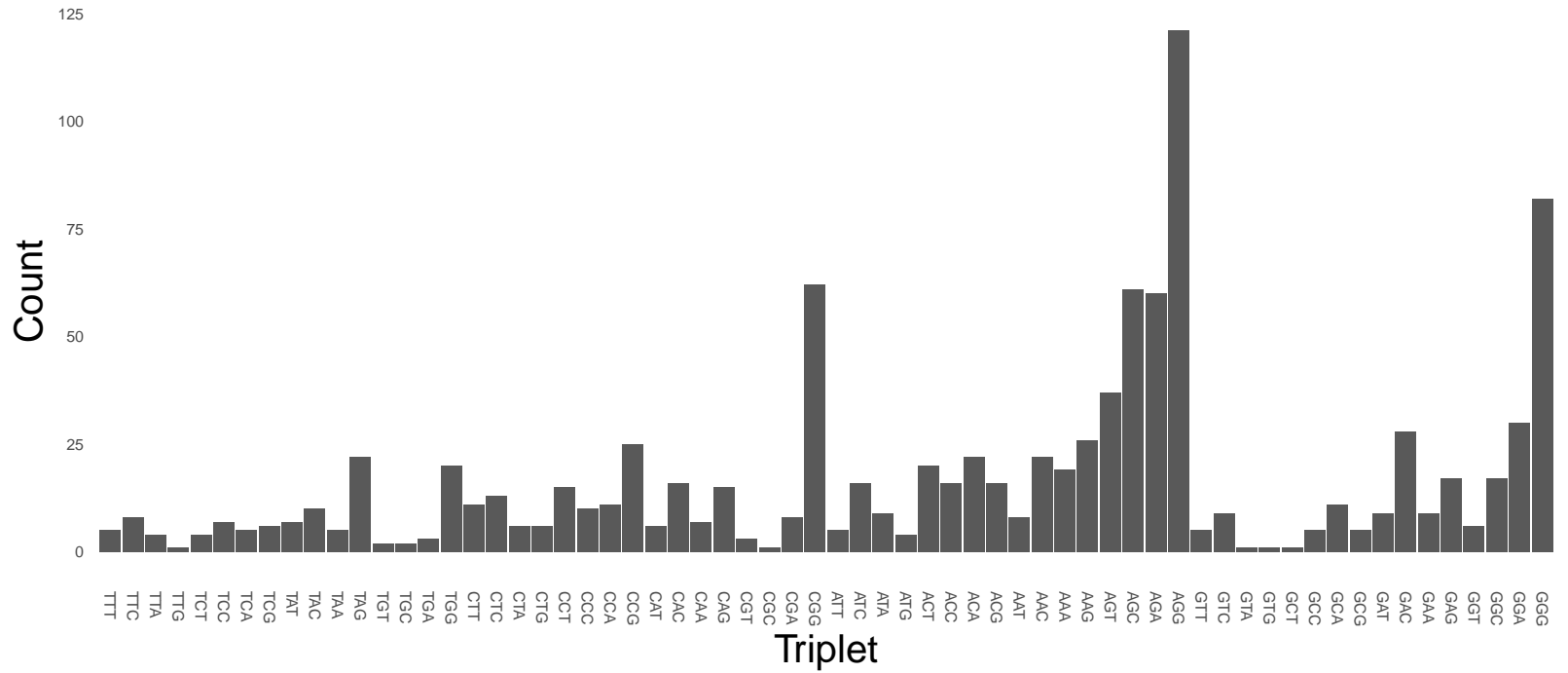
TRBV7–1\*ap01\_G291C\_T296C– Final 3 nucleotides as a triplet



TRBV7–3\*ap01\_G301A– Final 3 nucleotides as a triplet

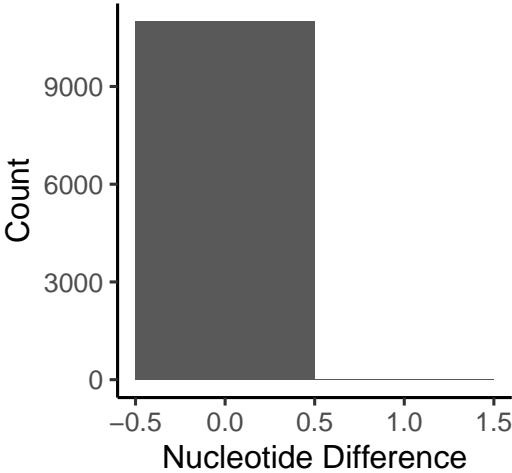


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



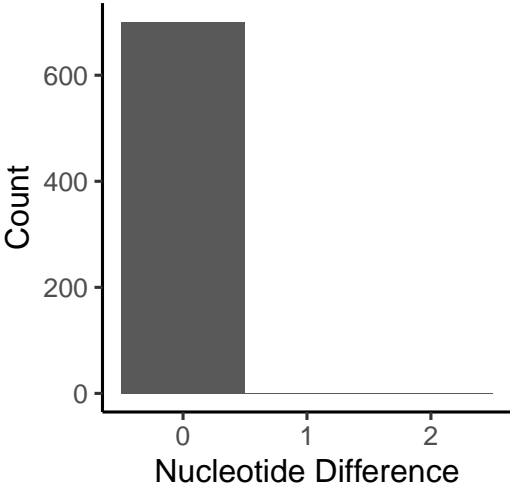
TRBV20-1\*ap01

11009 sequences assigned  
10997 (99.9%) exact matches, in which:  
10993 unique CDR3  
12 unique J



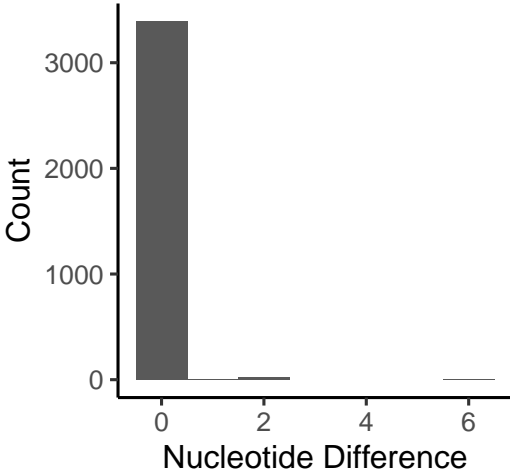
TRBV10-2\*ap01

703 sequences assigned  
701 (99.7%) exact matches, in which:  
700 unique CDR3  
12 unique J



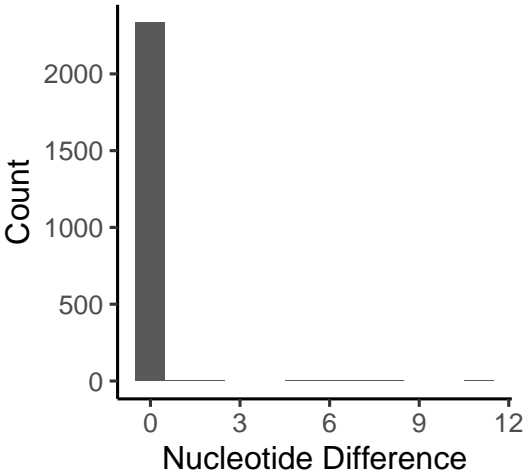
TRBV13\*ap01

3422 sequences assigned  
3391 (99.1%) exact matches, in which:  
3391 unique CDR3  
13 unique J



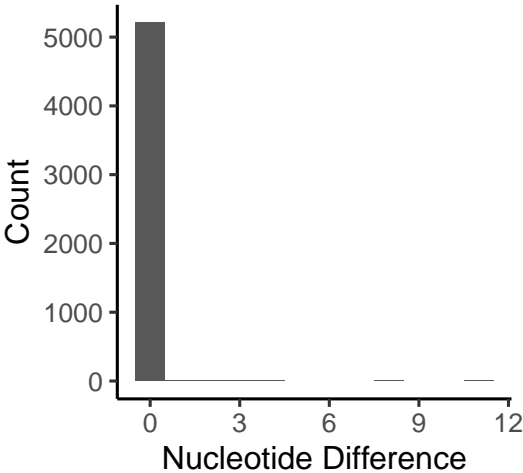
TRBV10-1\*ap01

2346 sequences assigned  
2333 (99.4%) exact matches, in which:  
2331 unique CDR3  
12 unique J



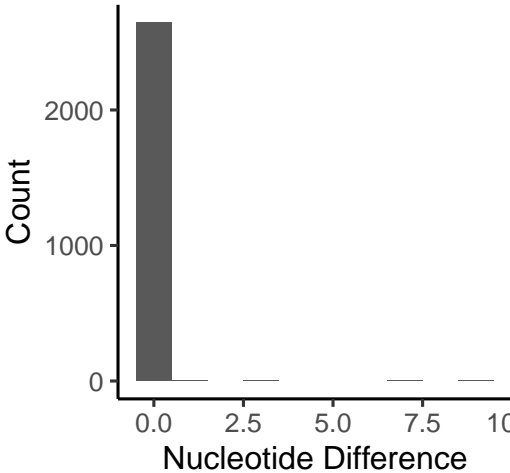
TRBV10-3\*ap01

5223 sequences assigned  
5209 (99.7%) exact matches, in which:  
5209 unique CDR3  
13 unique J



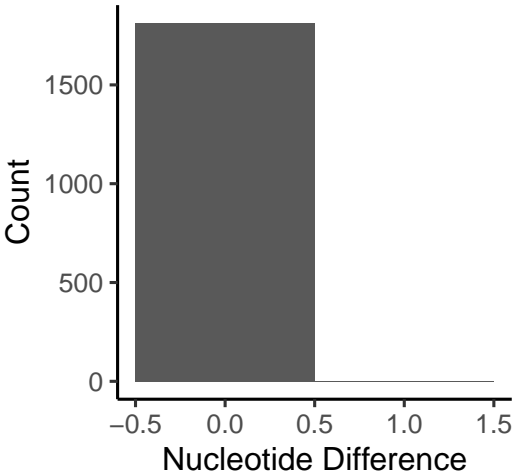
TRBV14\*ap01

2653 sequences assigned  
2644 (99.7%) exact matches, in which:  
2644 unique CDR3  
12 unique J



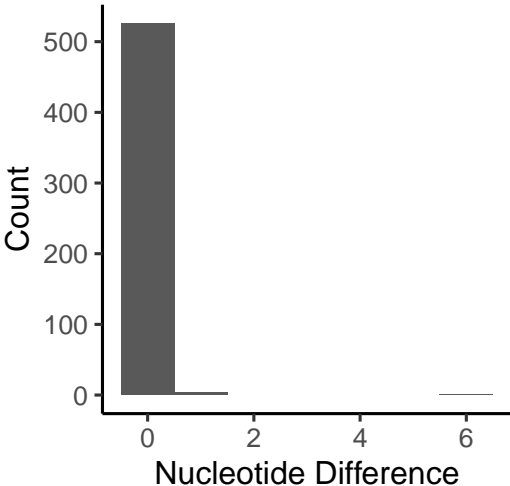
TRBV20-1\*ap02

1814 sequences assigned  
1813 (99.9%) exact matches, in which:  
1812 unique CDR3  
12 unique J



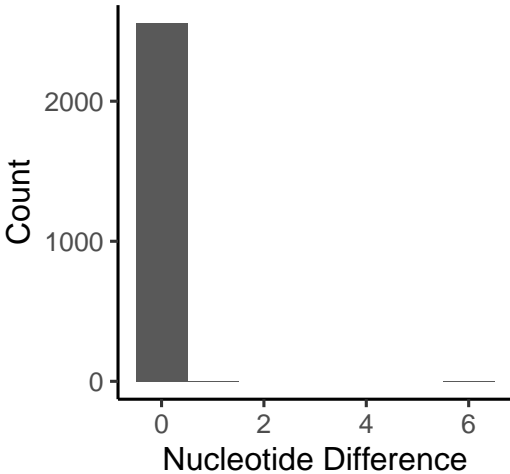
TRBV1\*ap01

531 sequences assigned  
526 (99.1%) exact matches, in which:  
526 unique CDR3  
12 unique J



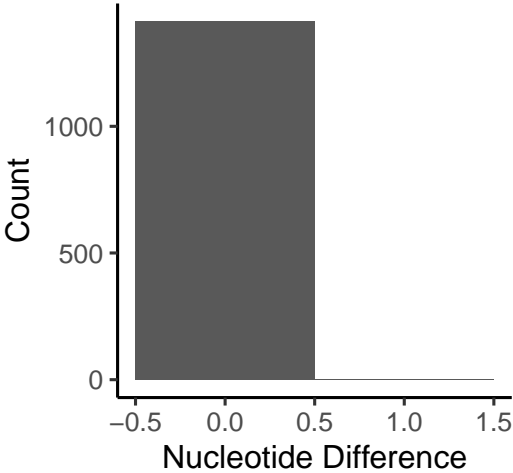
TRBV15\*ap02

2562 sequences assigned  
2558 (99.8%) exact matches, in which:  
2558 unique CDR3  
12 unique J



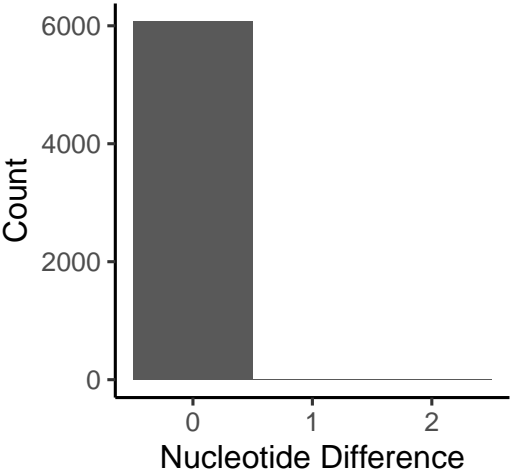
TRBV15\*ap02\_C296T

1416 sequences assigned  
1414 (99.9%) exact matches, in which:  
1414 unique CDR3  
12 unique J



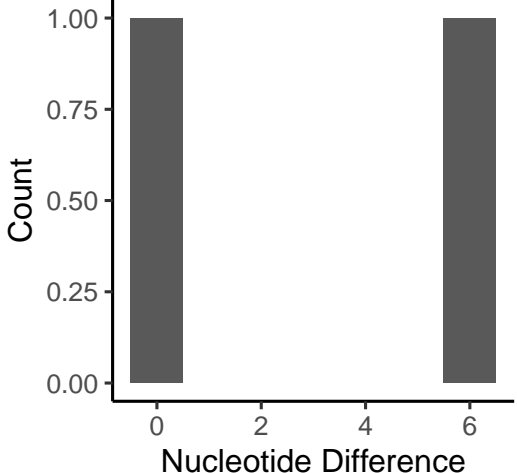
TRBV18\*ap01

6078 sequences assigned  
6074 (99.9%) exact matches, in which:  
6073 unique CDR3  
13 unique J



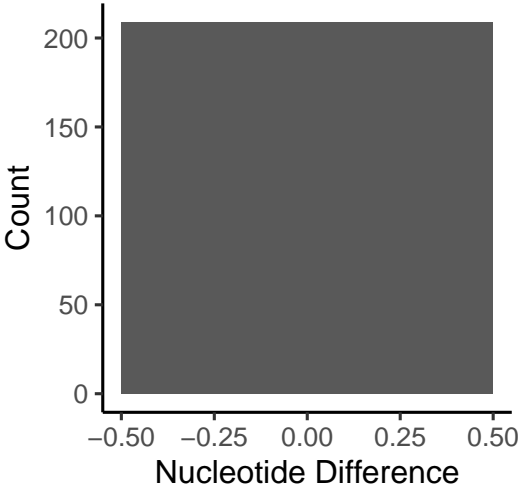
TRBV26\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



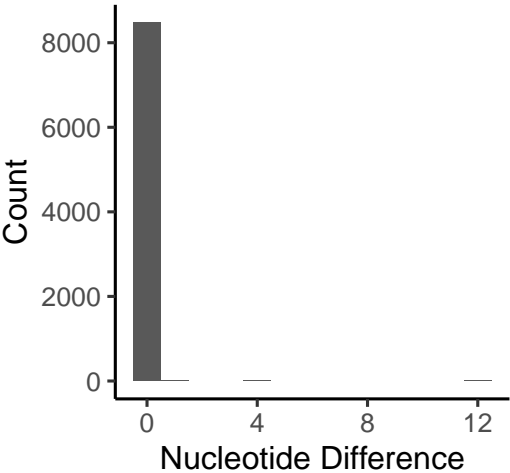
TRBV16\*ap01

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



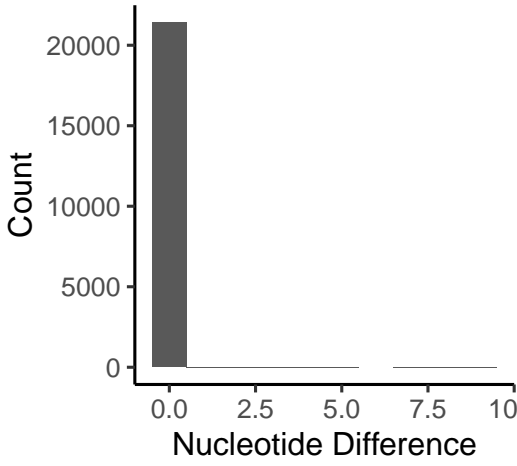
TRBV19\*ap01

8496 sequences assigned  
8473 (99.7%) exact matches, in which:  
8472 unique CDR3  
12 unique J



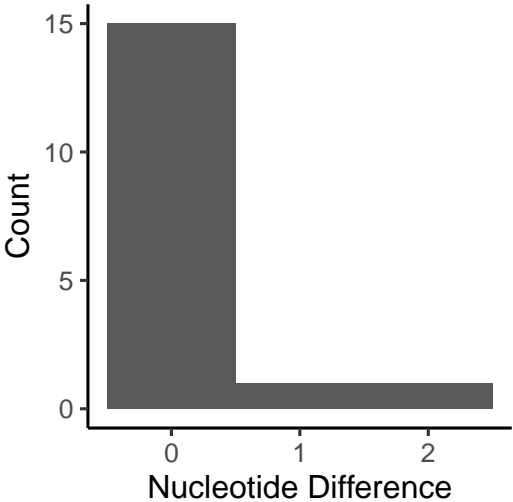
TRBV27\*ap01

21459 sequences assigned  
21414 (99.8%) exact matches, in which:  
21399 unique CDR3  
13 unique J



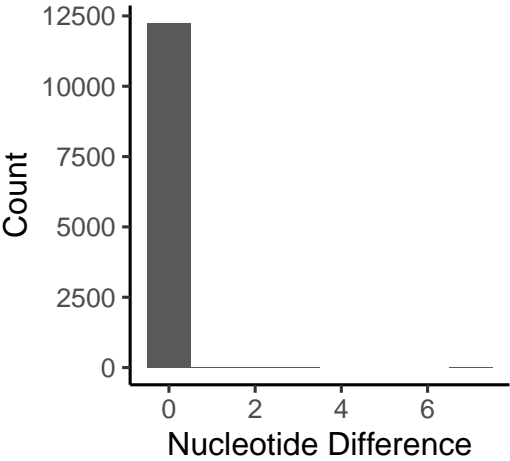
TRBV17\*ap01

17 sequences assigned  
15 (88.2%) exact matches, in which:  
15 unique CDR3  
8 unique J



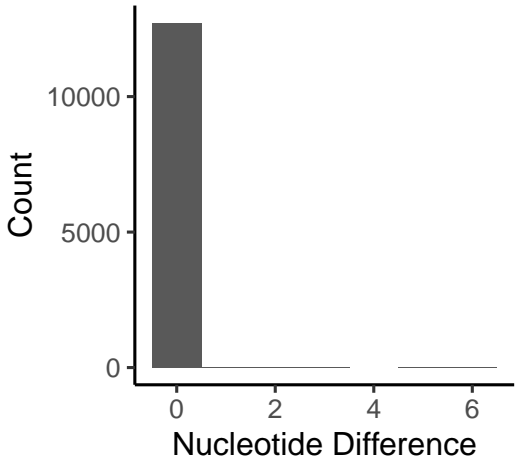
TRBV2\*ap01

12287 sequences assigned  
12256 (99.7%) exact matches, in which:  
12249 unique CDR3  
12 unique J



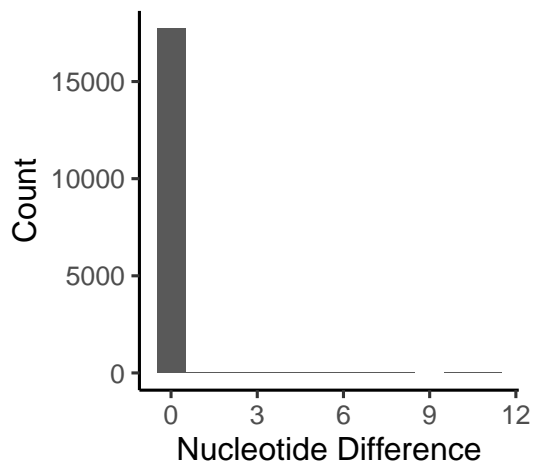
TRBV28\*ap01

12748 sequences assigned  
12723 (99.8%) exact matches, in which:  
12721 unique CDR3  
12 unique J



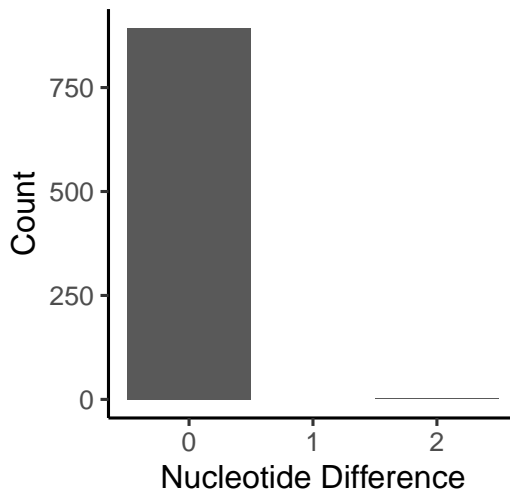
### TRBV30\*ap01

17822 sequences assigned  
17749 (99.6%) exact matches, in which:  
17729 unique CDR3  
13 unique J



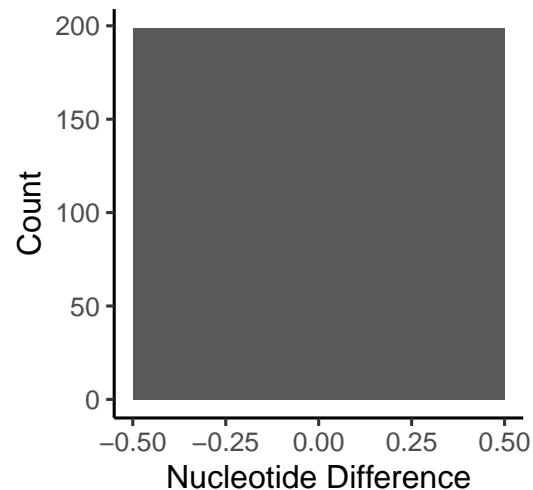
### TRBV11-1\*ap01

896 sequences assigned  
894 (99.8%) exact matches, in which:  
894 unique CDR3  
12 unique J



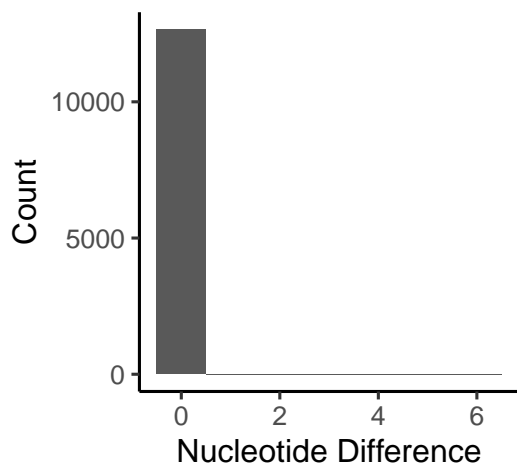
### TRBV12-1\*ap01

199 sequences assigned  
199 (100%) exact matches, in which:  
199 unique CDR3  
12 unique J



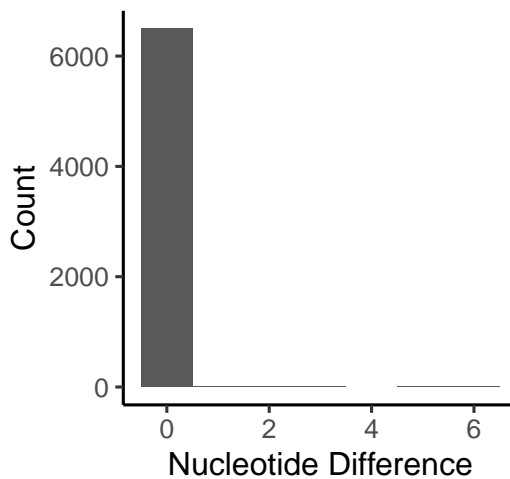
### TRBV9\*ap01

12680 sequences assigned  
12656 (99.8%) exact matches, in which:  
12646 unique CDR3  
13 unique J



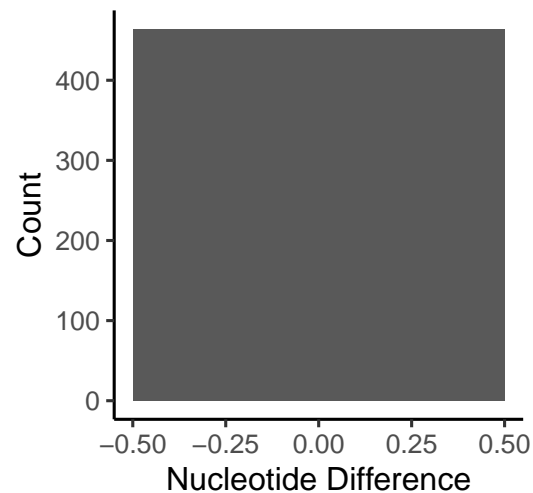
### TRBV11-2\*ap01

6506 sequences assigned  
6496 (99.8%) exact matches, in which:  
6495 unique CDR3  
12 unique J



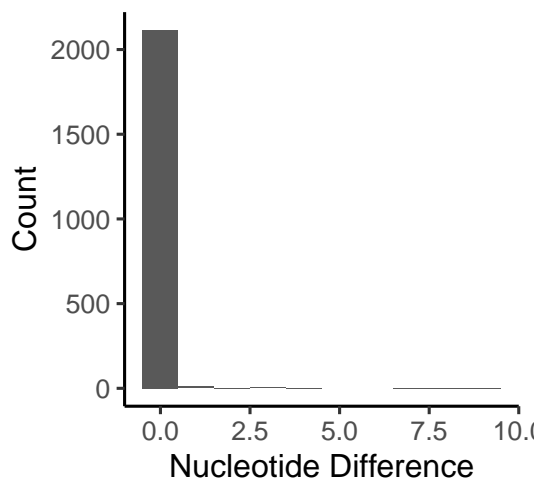
### TRBV12-2\*ap01

464 sequences assigned  
464 (100%) exact matches, in which:  
463 unique CDR3  
12 unique J



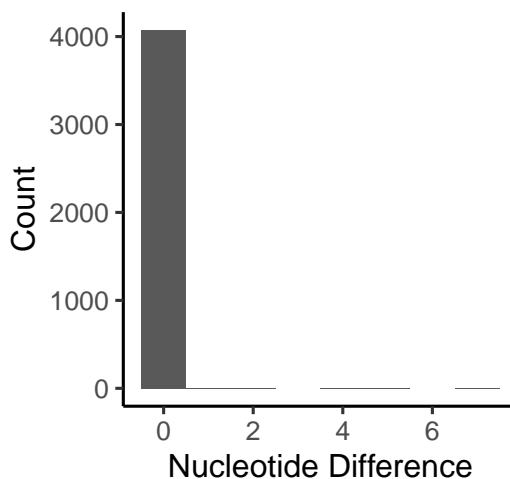
### TRBV21-1\*ap01

2137 sequences assigned  
2115 (99%) exact matches, in which:  
2115 unique CDR3  
12 unique J



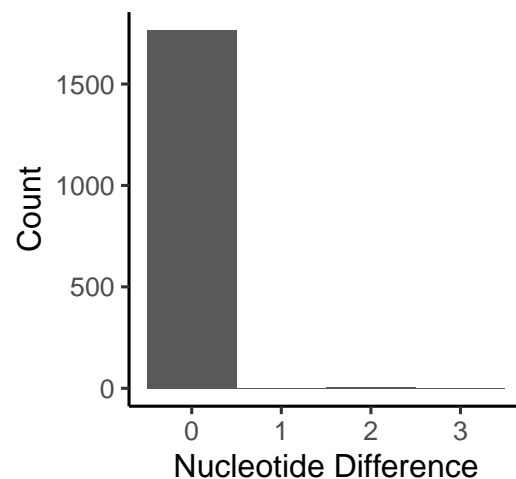
### TRBV11-3\*ap01

4089 sequences assigned  
4074 (99.6%) exact matches, in which:  
4072 unique CDR3  
12 unique J



### TRBV12-5\*ap01

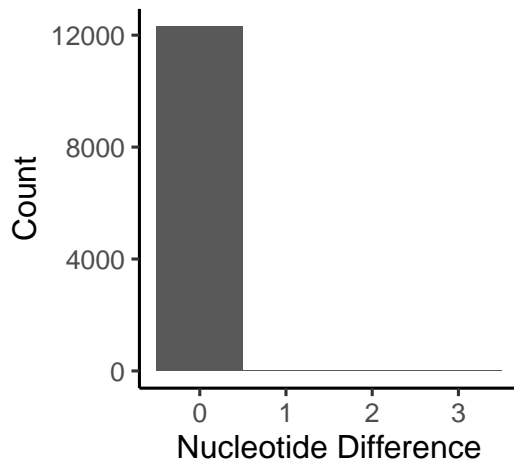
1776 sequences assigned  
1766 (99.4%) exact matches, in which:  
1765 unique CDR3  
12 unique J





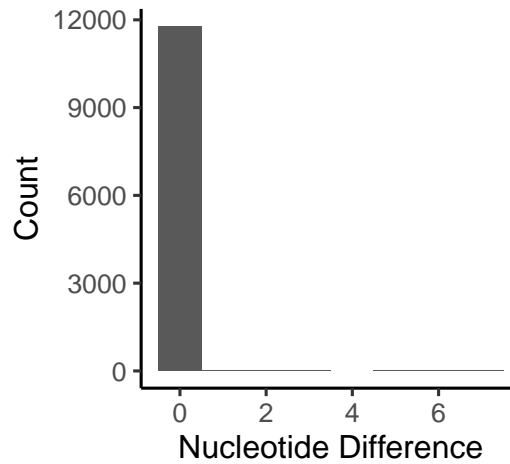
### TRBV12-34\*ap01

12346 sequences assigned  
12322 (99.8%) exact matches, in which:  
12321 unique CDR3  
12 unique J



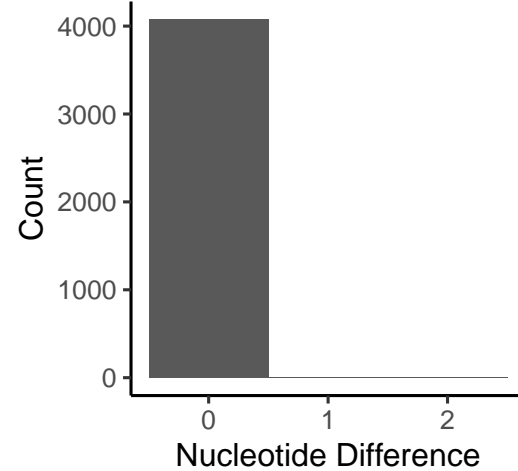
### TRBV24-1\*ap01

11828 sequences assigned  
11784 (99.6%) exact matches, in which:  
11776 unique CDR3  
13 unique J



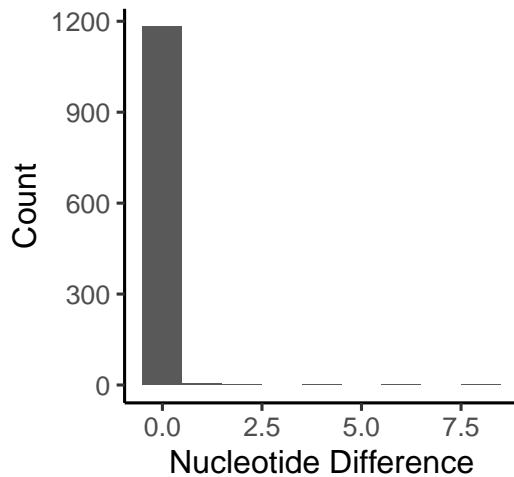
### TRBV4-3\*ap01

4085 sequences assigned  
4076 (99.8%) exact matches, in which:  
4076 unique CDR3  
12 unique J



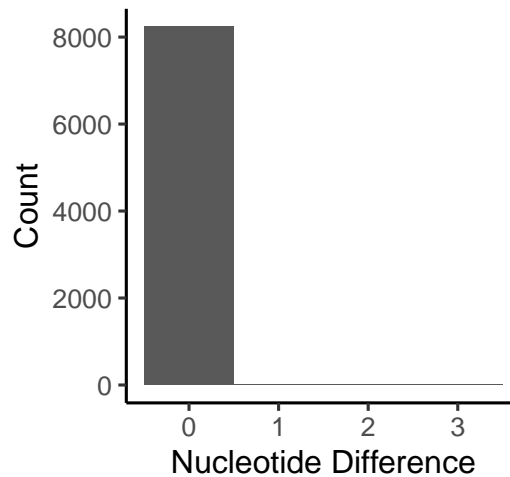
### TRBV23-1\*ap01

1190 sequences assigned  
1182 (99.3%) exact matches, in which:  
1182 unique CDR3  
12 unique J



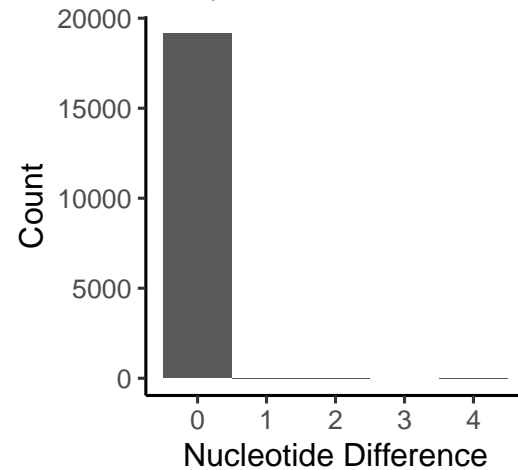
### TRBV4-1\*ap01

8249 sequences assigned  
8238 (99.9%) exact matches, in which:  
8238 unique CDR3  
12 unique J



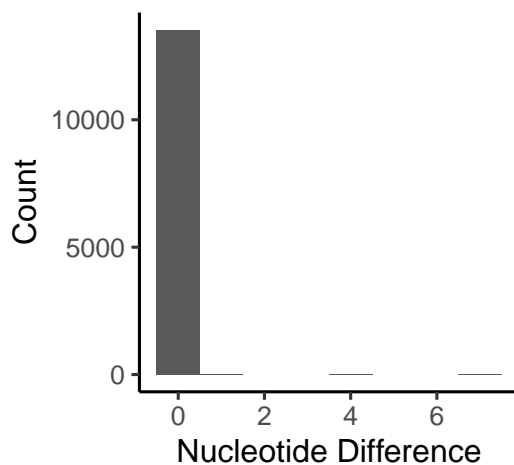
### TRBV5-1\*ap01

19181 sequences assigned  
19152 (99.8%) exact matches, in which:  
19139 unique CDR3  
13 unique J



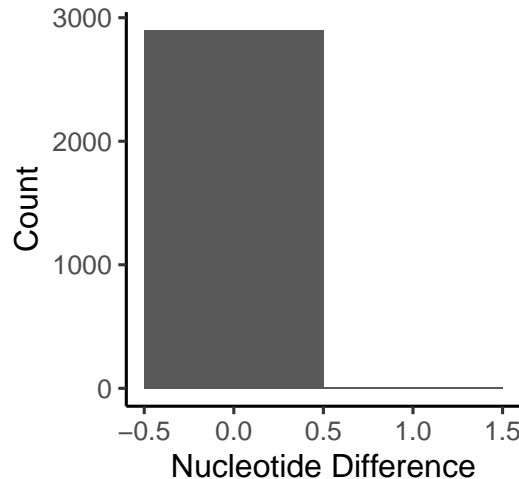
### TRBV3-12\*ap01

13570 sequences assigned  
13532 (99.7%) exact matches, in which:  
13526 unique CDR3  
13 unique J



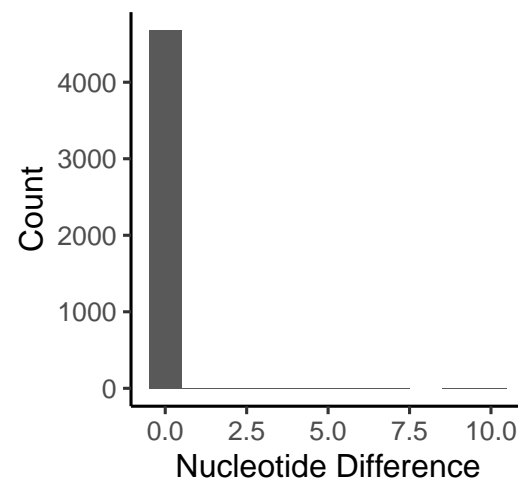
### TRBV4-2\*ap01

2913 sequences assigned  
2900 (99.6%) exact matches, in which:  
2900 unique CDR3  
12 unique J



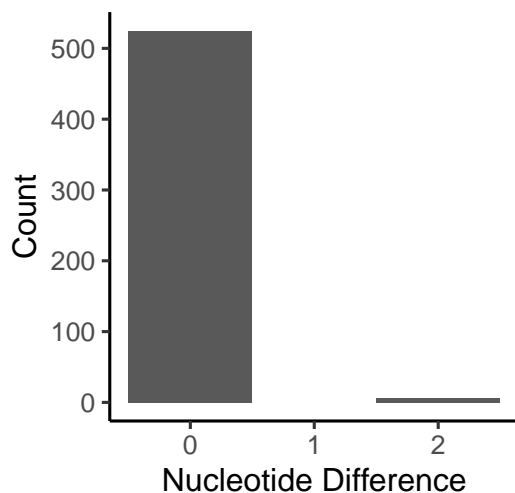
### TRBV25-1\*ap01

4702 sequences assigned  
4682 (99.6%) exact matches, in which:  
4681 unique CDR3  
13 unique J



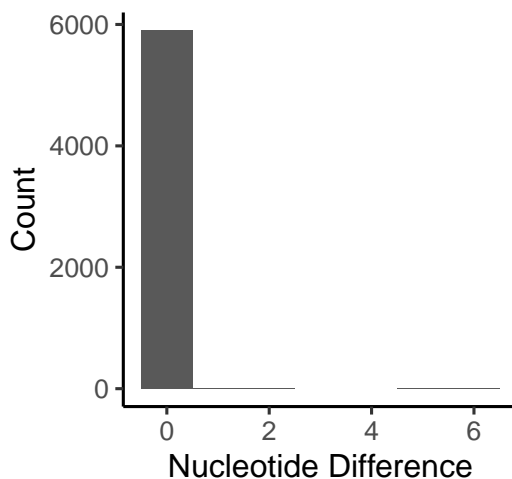
### TRBV5-3\*ap01

531 sequences assigned  
525 (98.9%) exact matches, in which:  
525 unique CDR3  
12 unique J



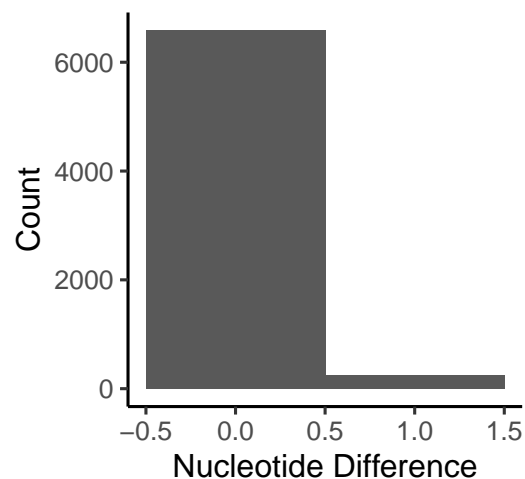
### TRBV5-6\*ap01

5910 sequences assigned  
5902 (99.9%) exact matches, in which:  
5895 unique CDR3  
12 unique J



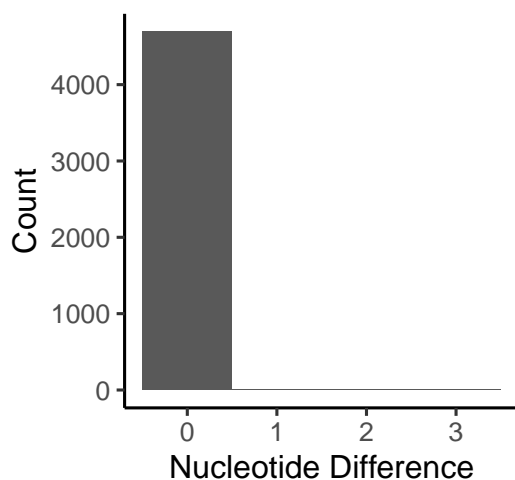
### TRBV6-1\*ap01

6832 sequences assigned  
6585 (96.4%) exact matches, in which:  
6581 unique CDR3  
12 unique J



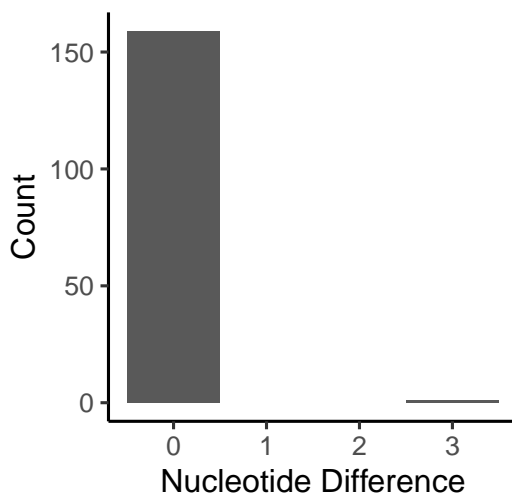
### TRBV5-4\*ap01

4703 sequences assigned  
4693 (99.8%) exact matches, in which:  
4691 unique CDR3  
12 unique J



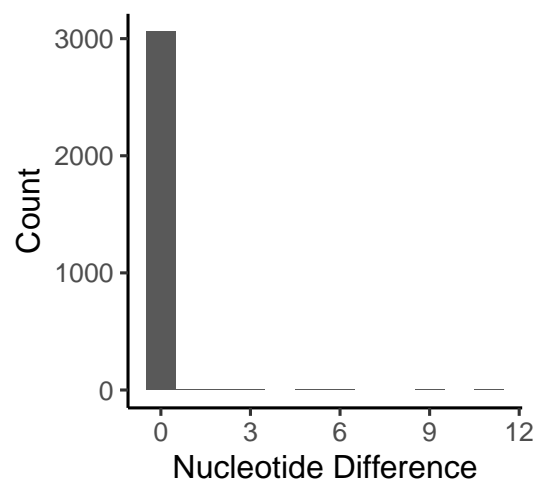
### TRBV5-7\*ap01

160 sequences assigned  
159 (99.4%) exact matches, in which:  
159 unique CDR3  
12 unique J



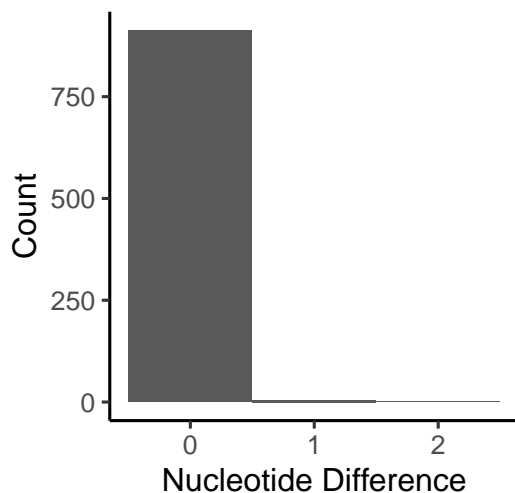
### TRBV6-4\*ap01

3073 sequences assigned  
3059 (99.5%) exact matches, in which:  
3057 unique CDR3  
12 unique J



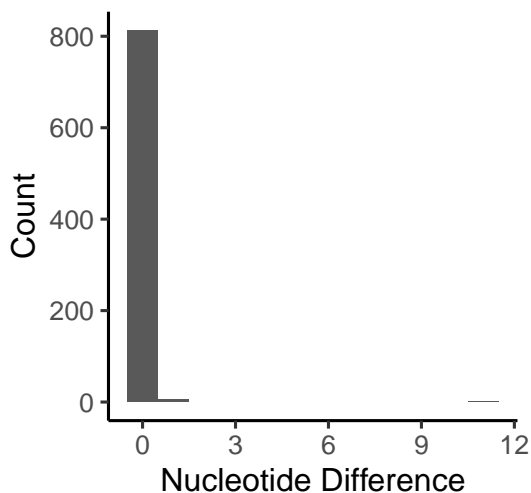
### TRBV5-5\*ap01

920 sequences assigned  
913 (99.2%) exact matches, in which:  
911 unique CDR3  
13 unique J



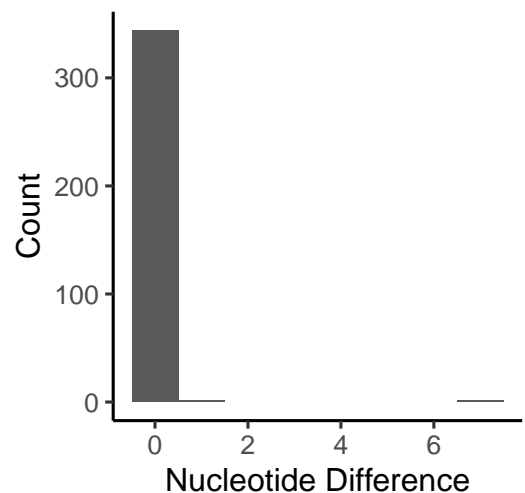
### TRBV5-8\*ap01

820 sequences assigned  
813 (99.1%) exact matches, in which:  
813 unique CDR3  
12 unique J



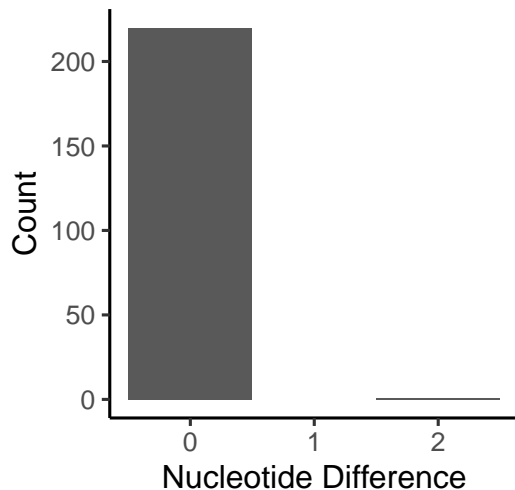
### TRBV6-7\*ap01

346 sequences assigned  
344 (99.4%) exact matches, in which:  
344 unique CDR3  
12 unique J



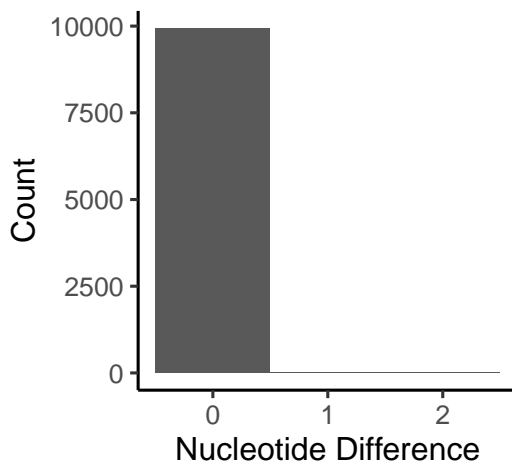
### TRBV6-8\*ap01

221 sequences assigned  
220 (99.5%) exact matches, in which:  
220 unique CDR3  
12 unique J



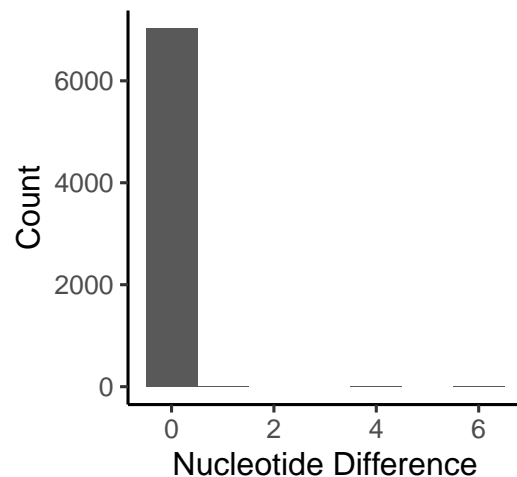
### TRBV6-56\*ap01

9952 sequences assigned  
9941 (99.9%) exact matches, in which:  
9939 unique CDR3  
13 unique J



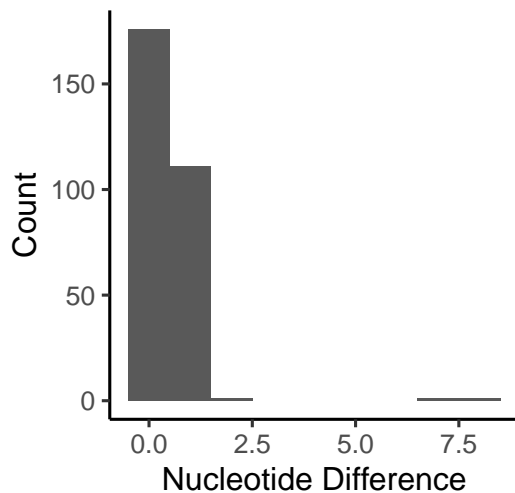
### TRBV7-2\*ap01

7038 sequences assigned  
7028 (99.9%) exact matches, in which:  
7026 unique CDR3  
12 unique J



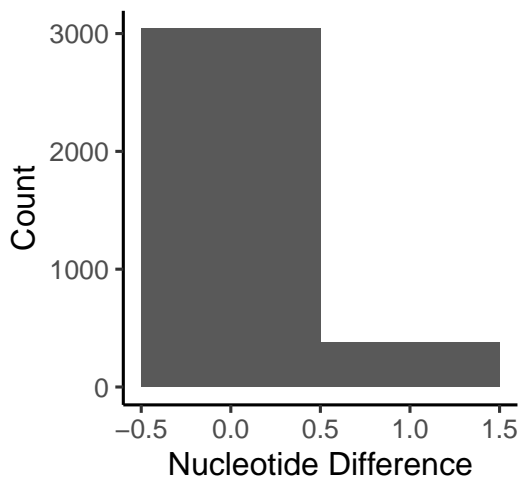
### TRBV6-9\*ap01

290 sequences assigned  
176 (60.7%) exact matches, in which:  
176 unique CDR3  
12 unique J



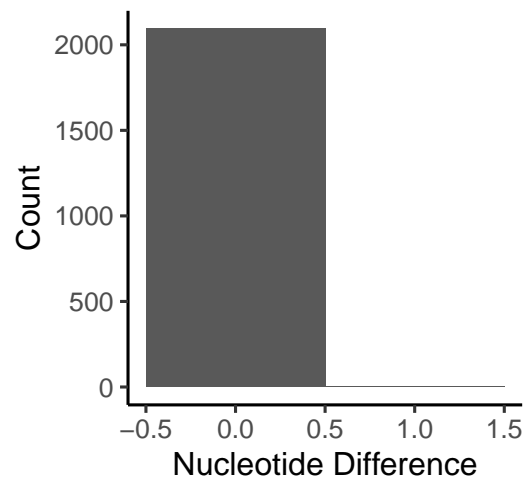
### TRBV6-56\*ap02

3419 sequences assigned  
3041 (88.9%) exact matches, in which:  
3040 unique CDR3  
13 unique J



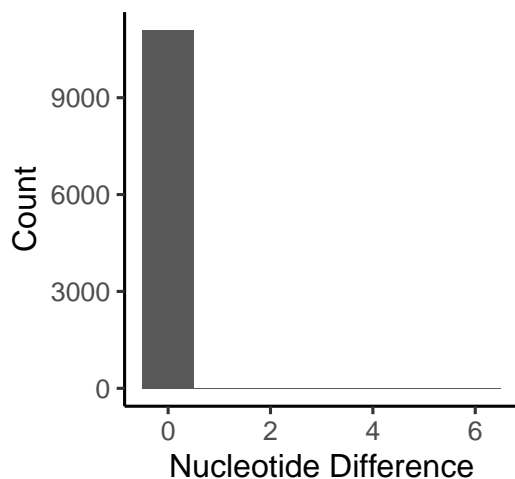
### TRBV7-3\*ap01

2099 sequences assigned  
2094 (99.8%) exact matches, in which:  
2094 unique CDR3  
12 unique J



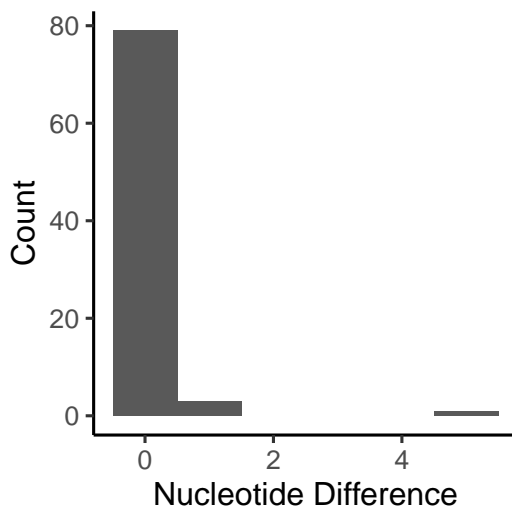
### TRBV6-23\*ap01

11123 sequences assigned  
11095 (99.7%) exact matches, in which:  
11092 unique CDR3  
12 unique J



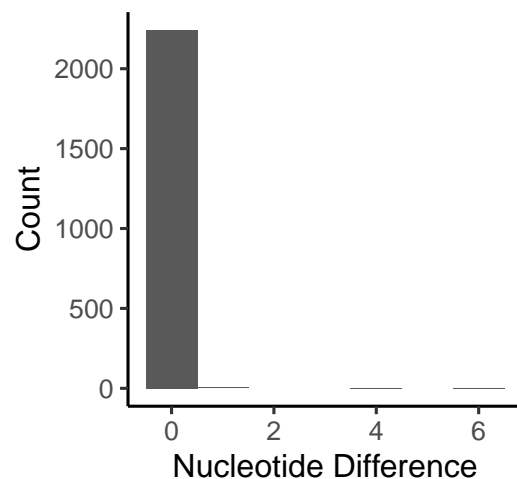
### TRBV7-1\*ap01\_G291C\_T

83 sequences assigned  
79 (95.2%) exact matches, in which:  
79 unique CDR3  
12 unique J



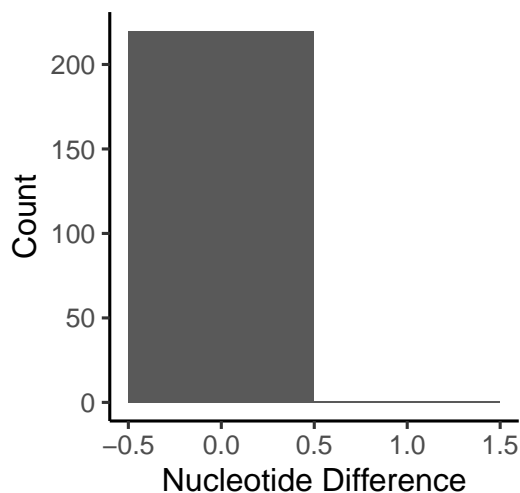
### TRBV7-3\*ap01\_G301A

2250 sequences assigned  
2242 (99.6%) exact matches, in which:  
2241 unique CDR3  
12 unique J



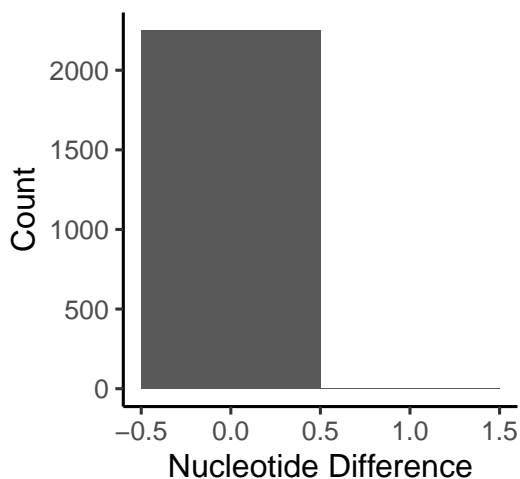
### TRBV7-4\*ap01

221 sequences assigned  
220 (99.5%) exact matches, in which:  
220 unique CDR3  
12 unique J



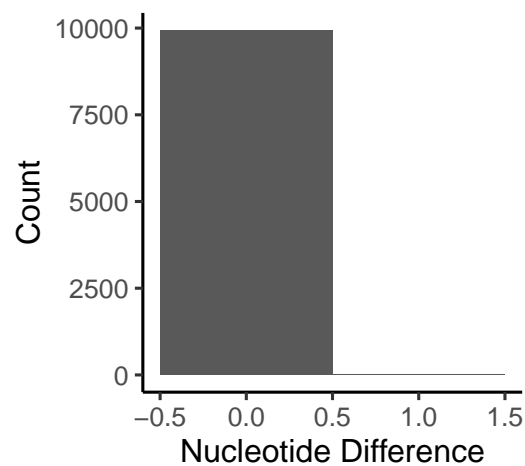
### TRBV7-8\*ap01

2252 sequences assigned  
2250 (99.9%) exact matches, in which:  
2250 unique CDR3  
12 unique J



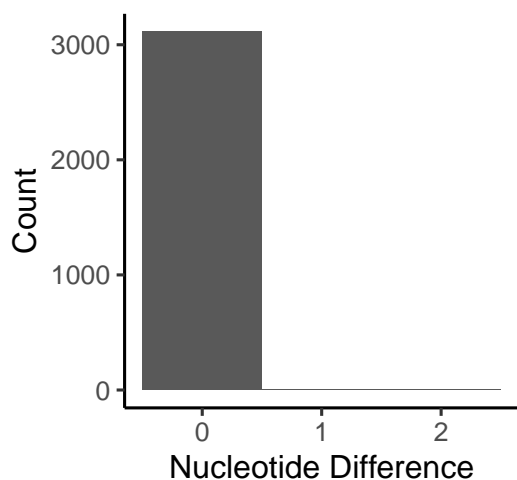
### TRBV29-1\*ap01

9962 sequences assigned  
9940 (99.8%) exact matches, in which:  
9914 unique CDR3  
13 unique J



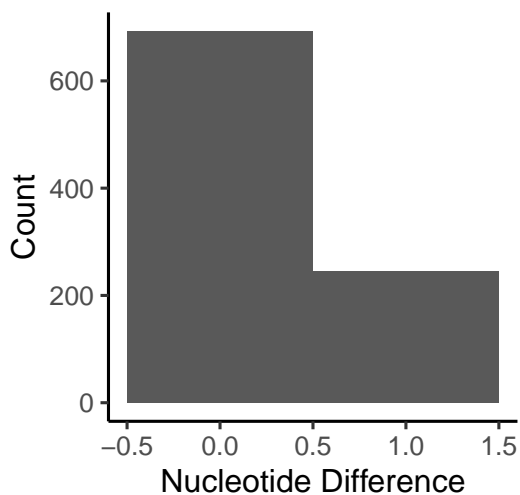
### TRBV7-6\*ap01

3116 sequences assigned  
3113 (99.9%) exact matches, in which:  
3113 unique CDR3  
12 unique J



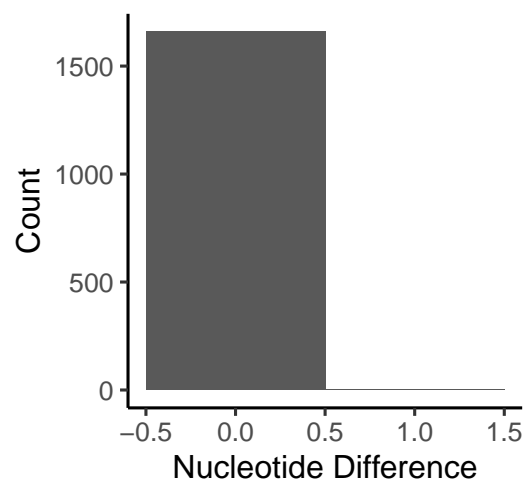
### TRBV7-8\*ap03

938 sequences assigned  
693 (73.9%) exact matches, in which:  
693 unique CDR3  
12 unique J



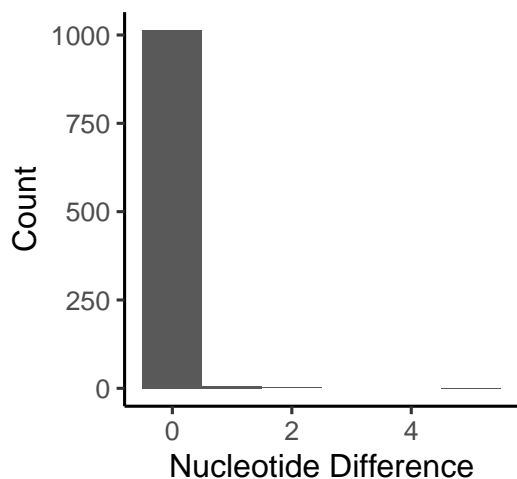
### TRBV29-1\*ap02

1660 sequences assigned  
1659 (99.9%) exact matches, in which:  
1657 unique CDR3  
12 unique J



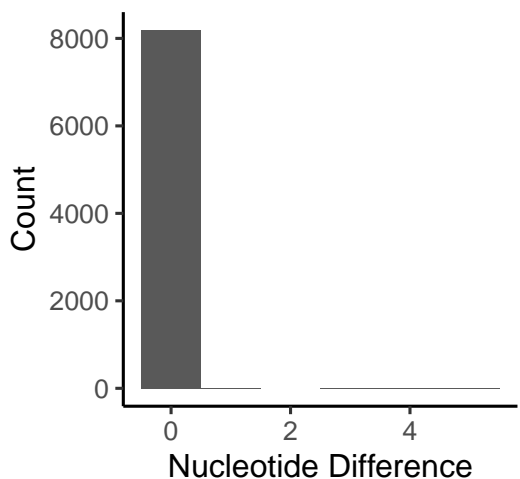
### TRBV7-7\*ap01\_C315T

1024 sequences assigned  
1014 (99%) exact matches, in which:  
1014 unique CDR3  
12 unique J

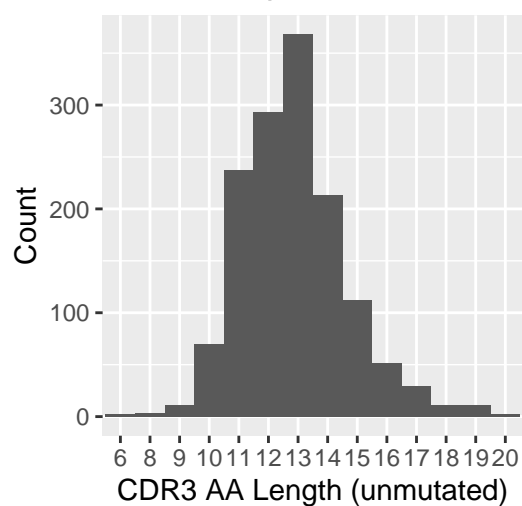


### TRBV7-9\*ap01

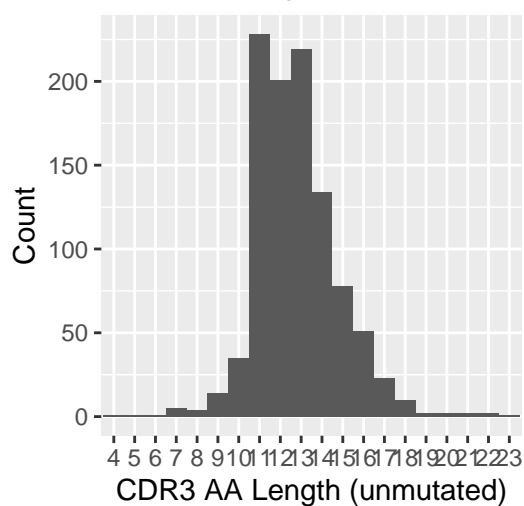
8200 sequences assigned  
8191 (99.9%) exact matches, in which:  
8190 unique CDR3  
12 unique J



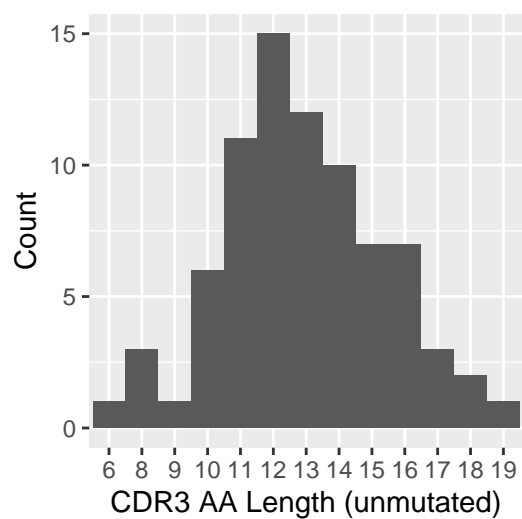
TRBV15\*ap02\_C296T



TRBV7-7\*ap01\_C315T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-3\*ap01\_G301A

