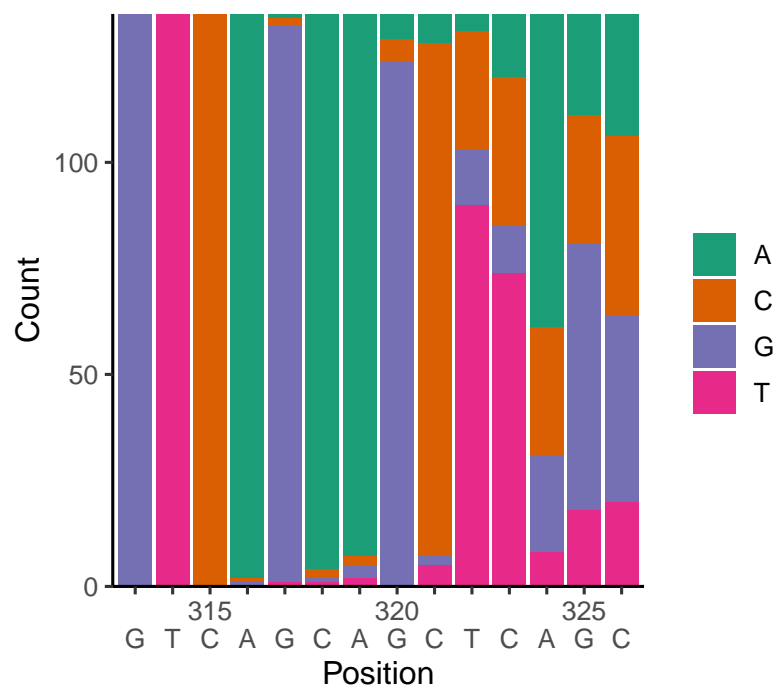
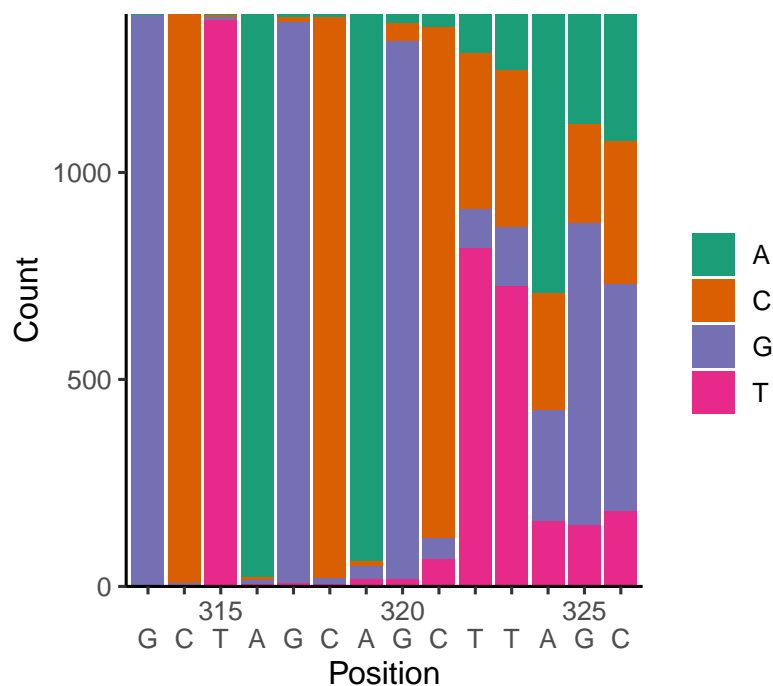


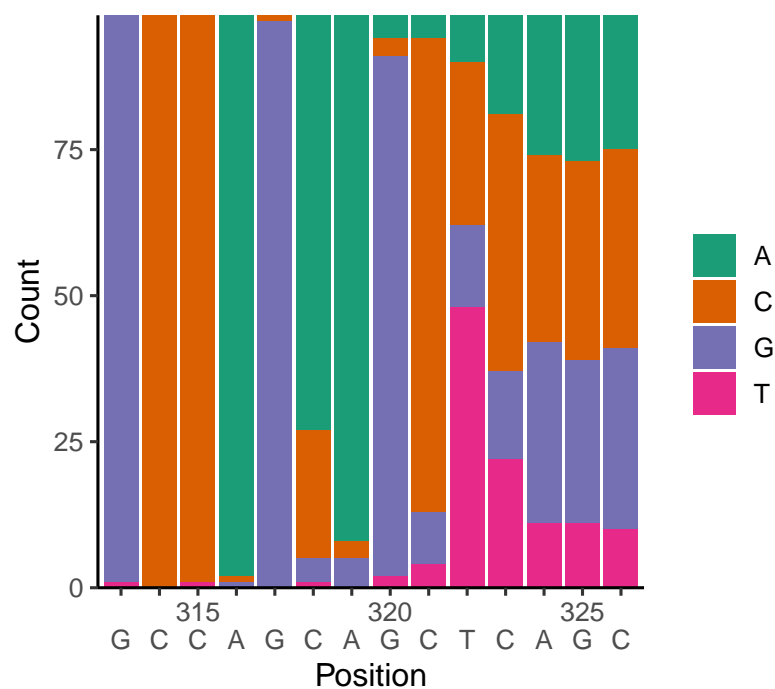
Gene TRBV7-1\*ap01\_T296C\_C314T



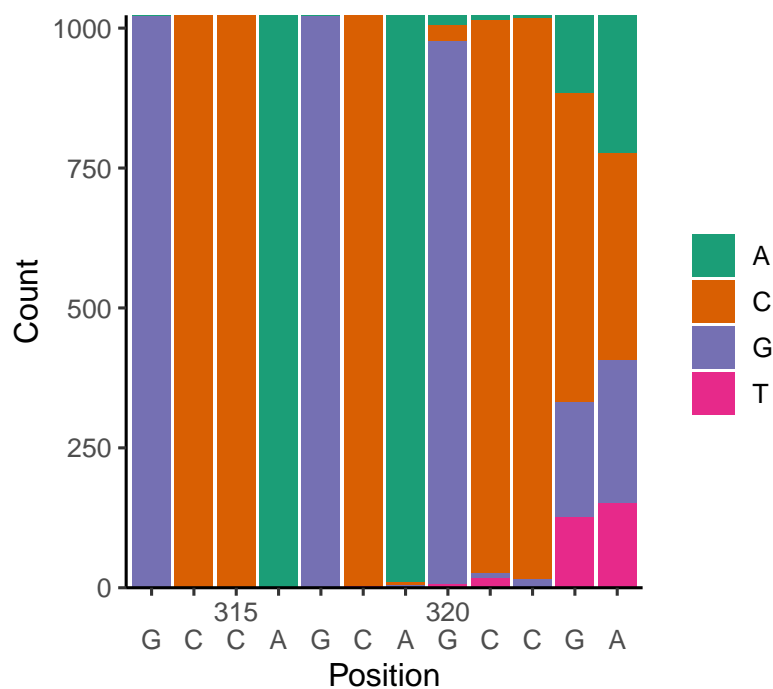
Gene TRBV7-7\*ap01\_C315T



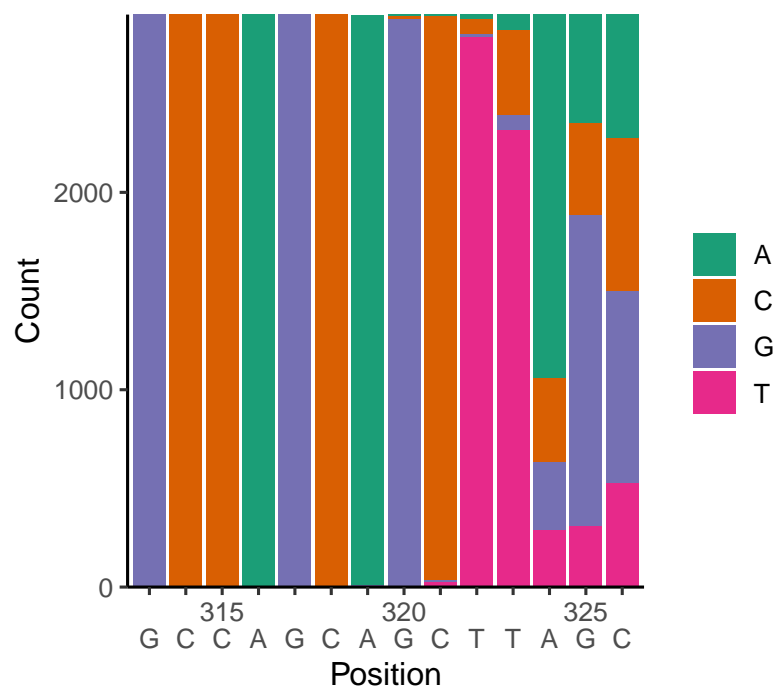
Gene TRBV7-1\*ap01\_T296C



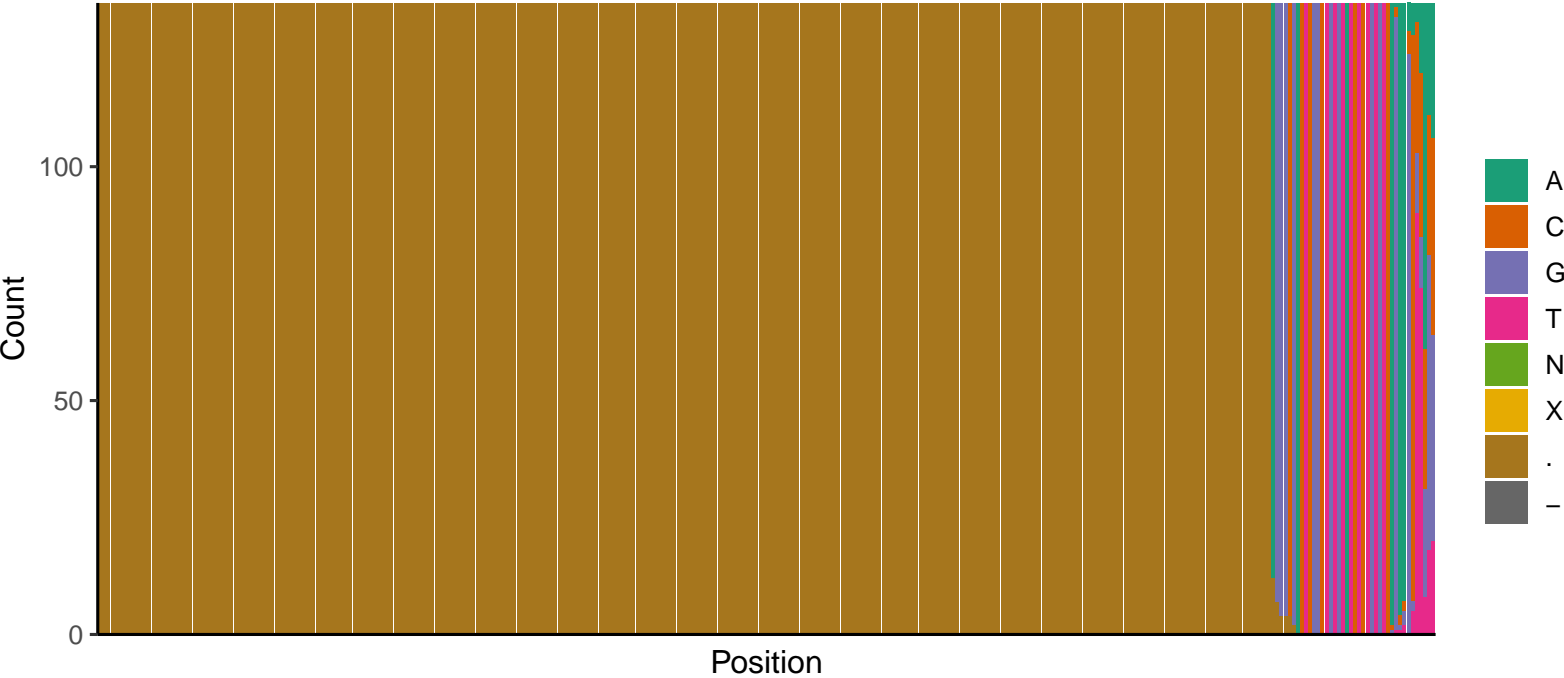
Gene TRBV7-8\*ap03\_C297A



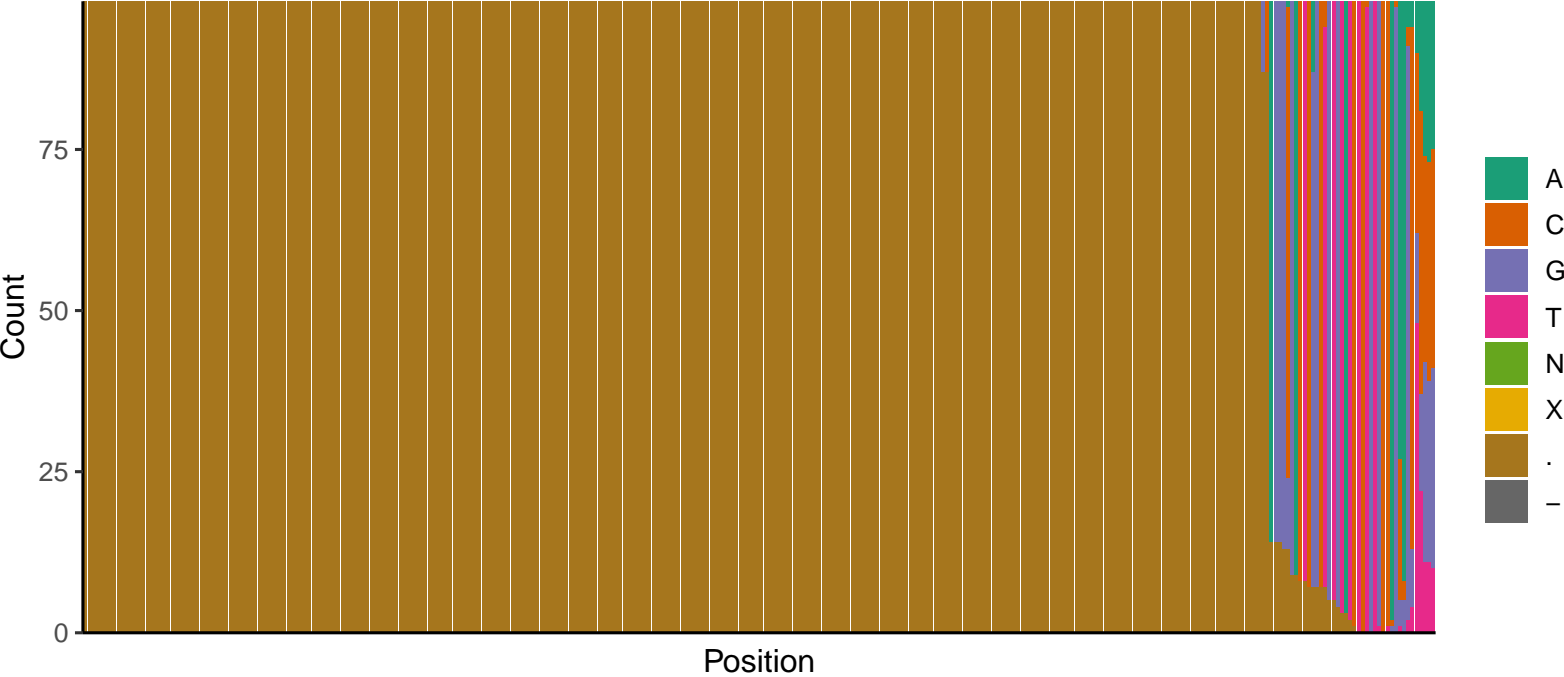
Gene TRBV7-2\*ap01\_G297A



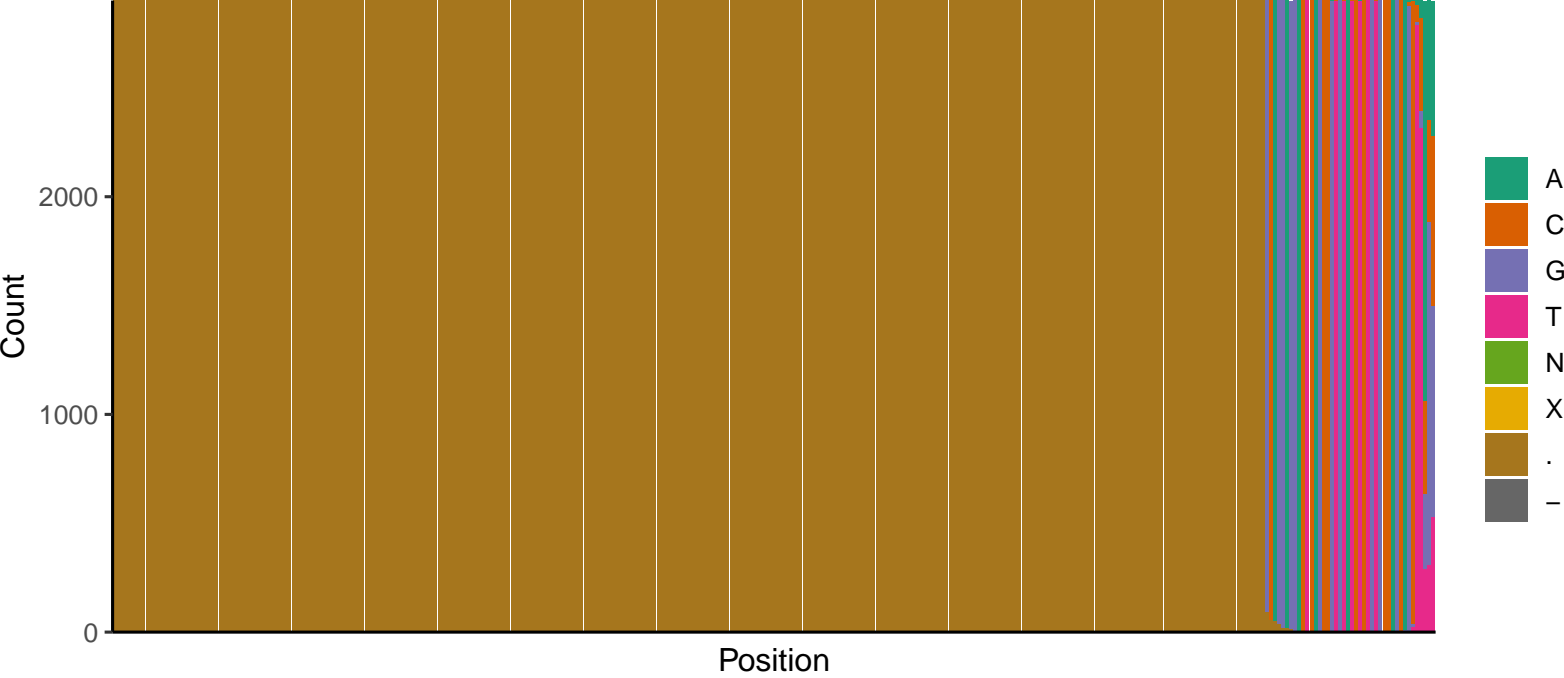
Gene TRBV7-1\*ap01\_T296C\_C314T



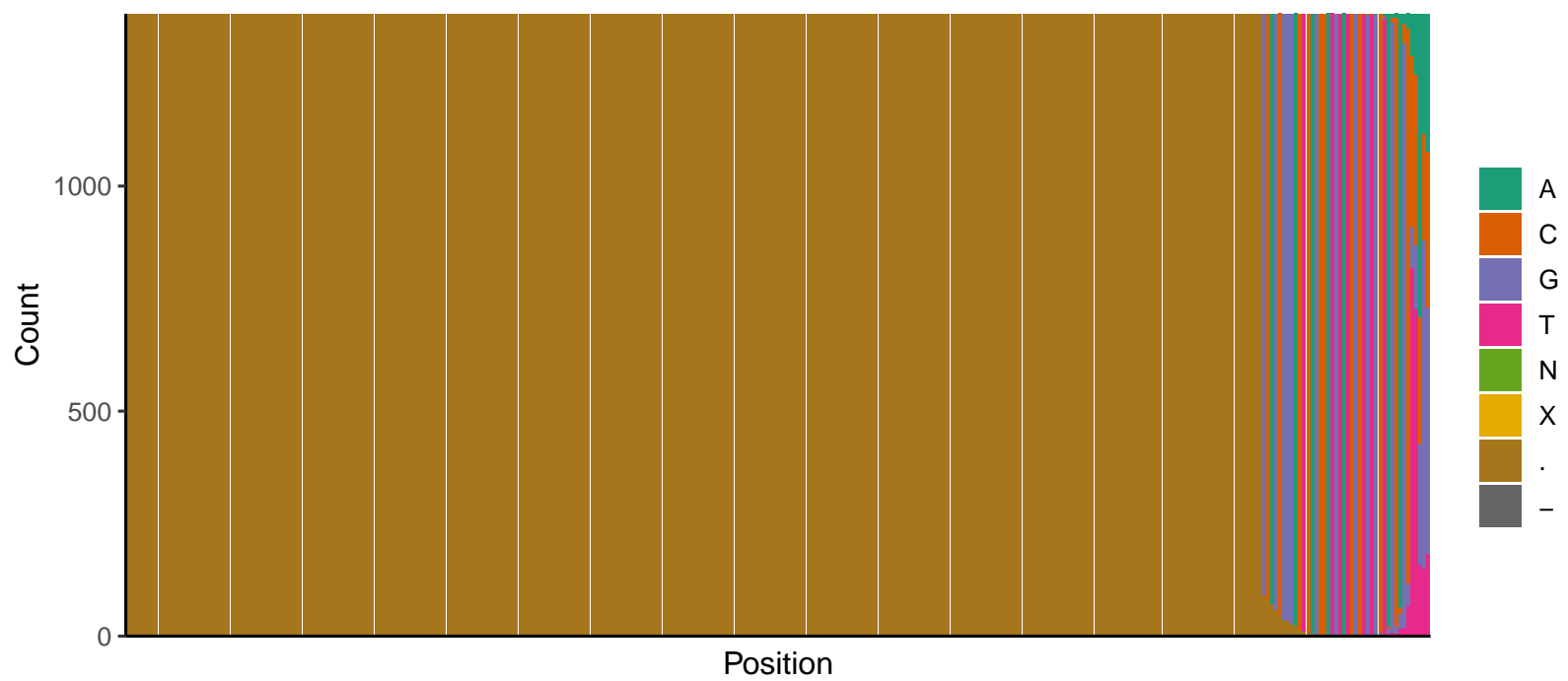
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-2\*ap01\_G297A



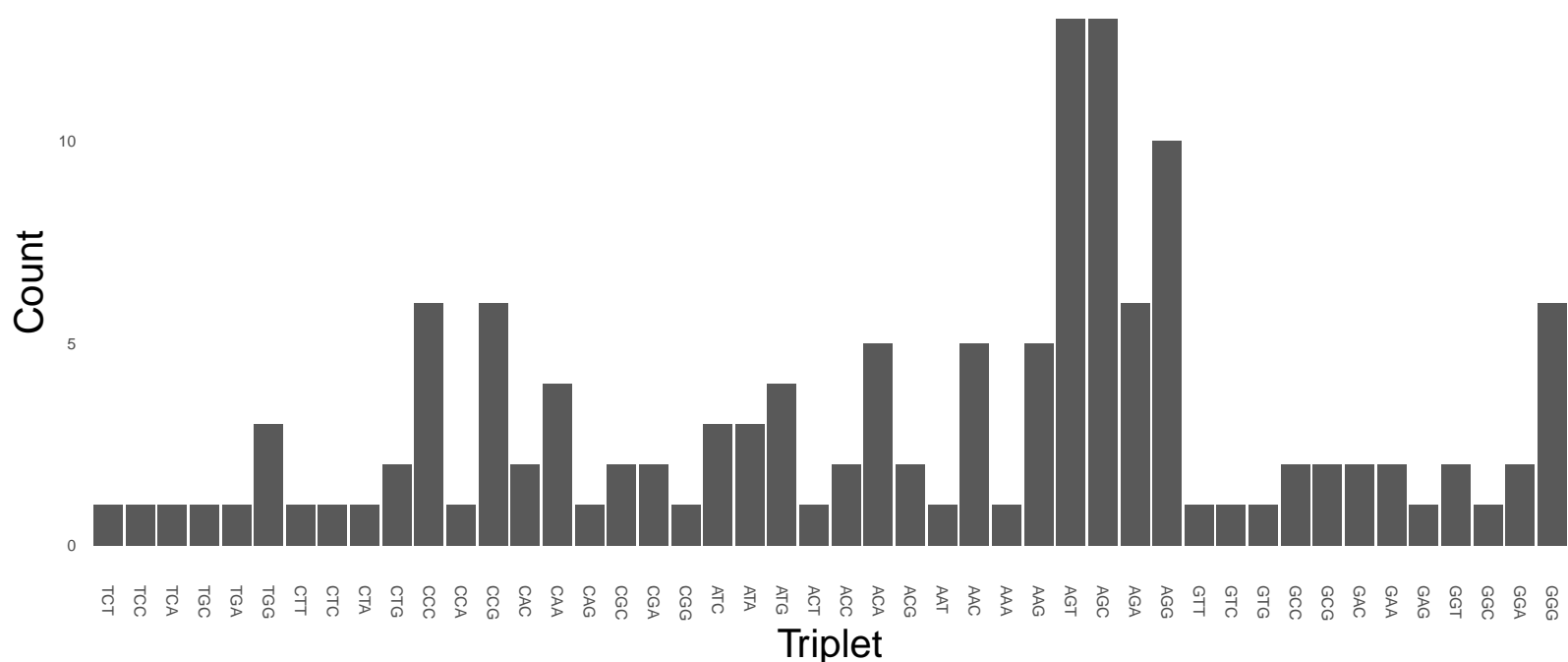
Gene TRBV7-7\*ap01\_C315T



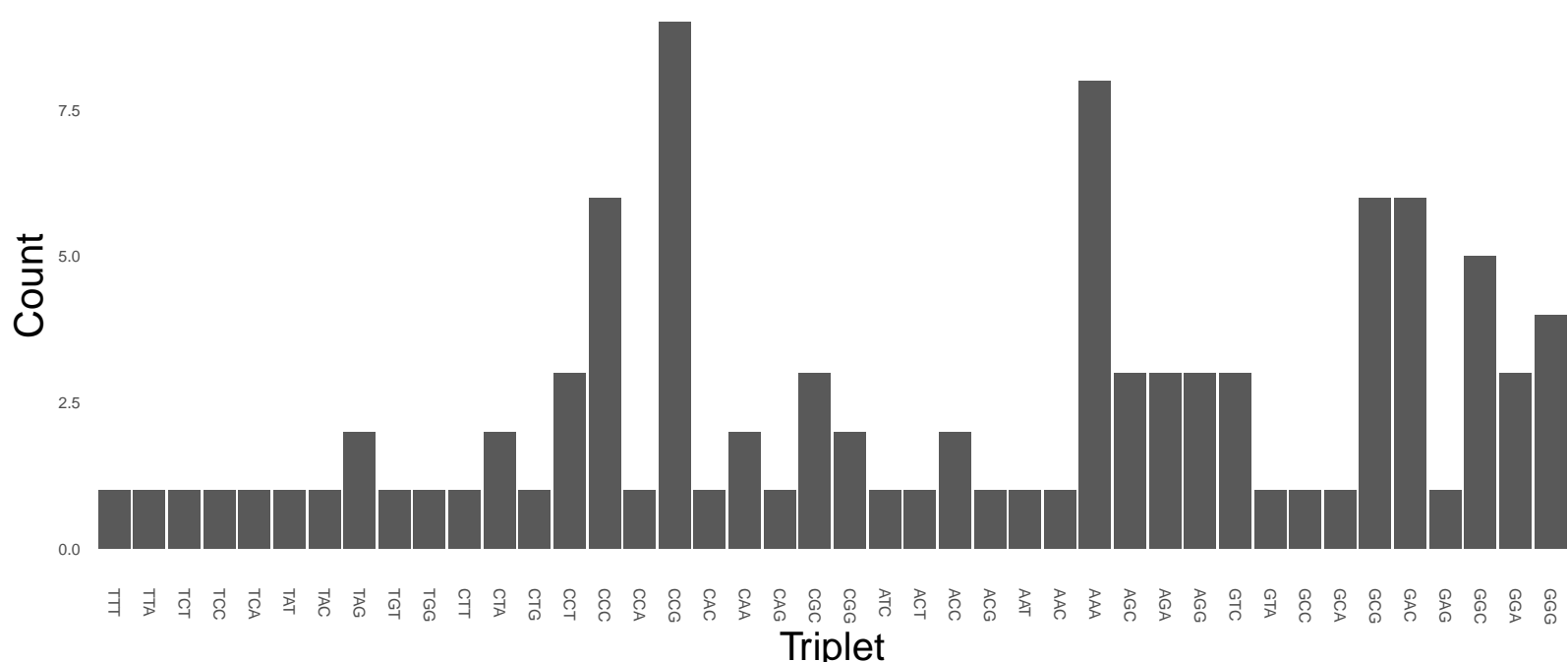
Gene TRBV7-8\*ap03\_C297A



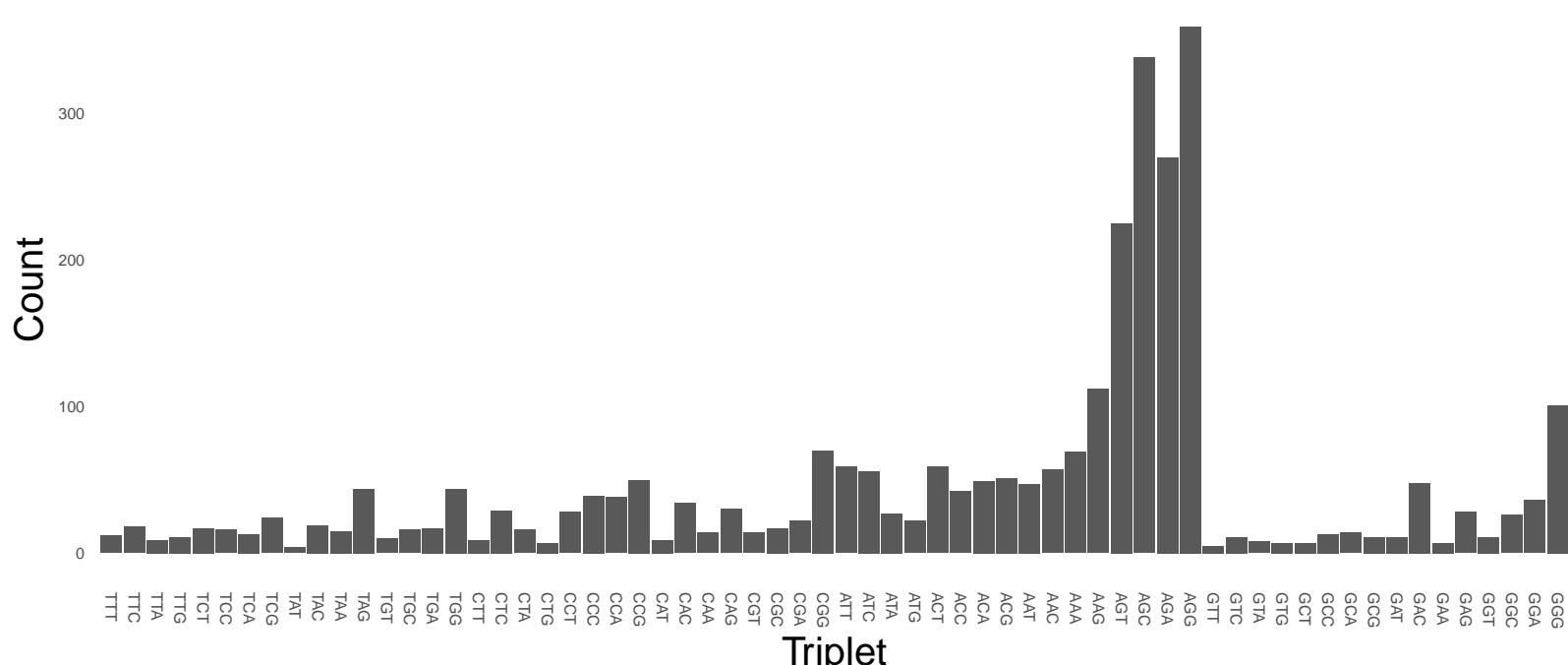
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



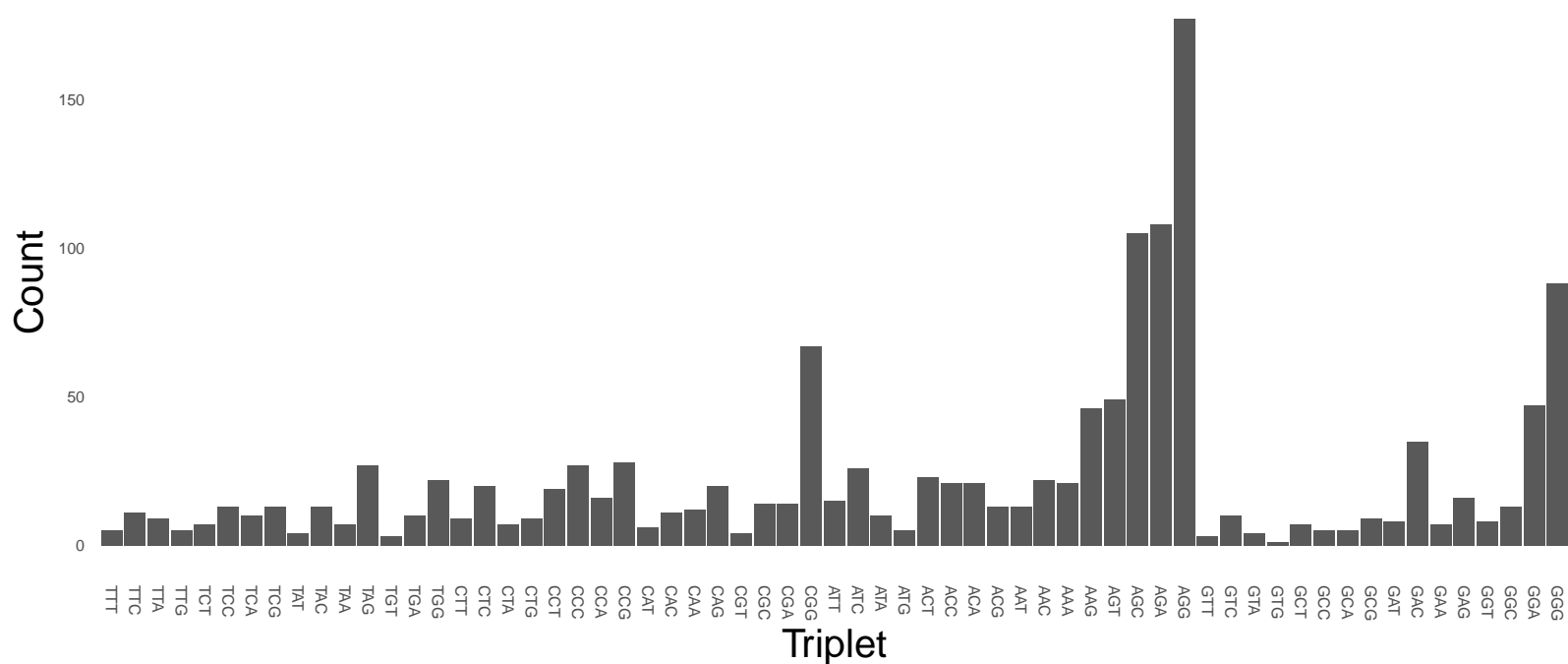
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



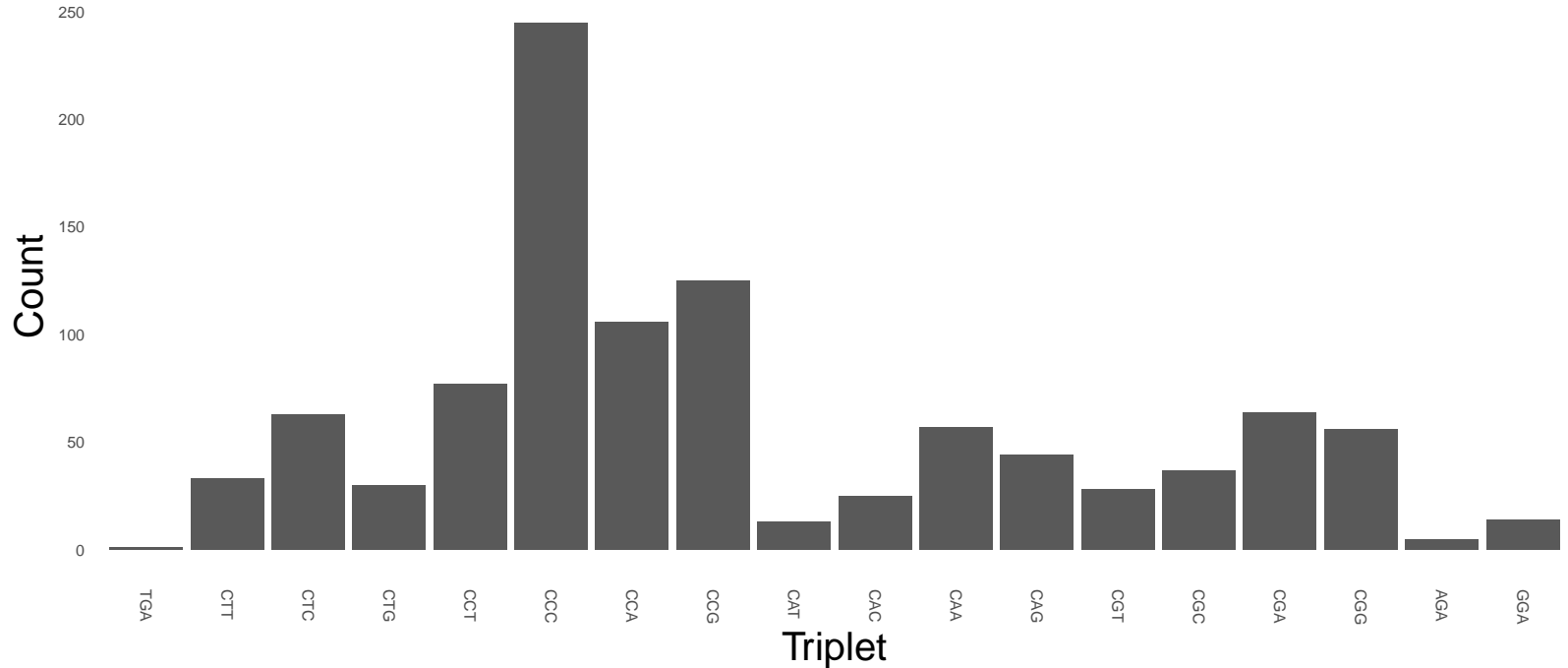
TRBV7-2\*ap01\_G297A- Final 3 nucleotides as a triplet



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

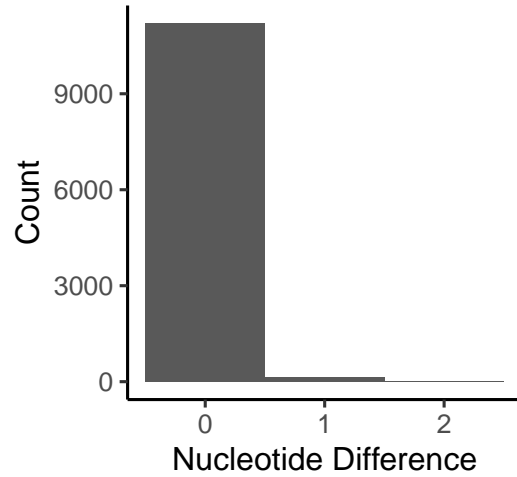


TRBV7-8\*ap03\_C297A- Final 3 nucleotides as a triplet



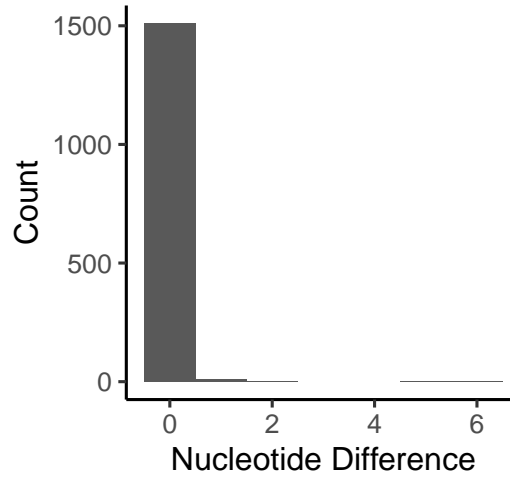
### TRBV20-1\*ap01

11332 sequences assigned  
11199 (98.8%) exact matches, in which:  
11003 unique CDR3  
13 unique J



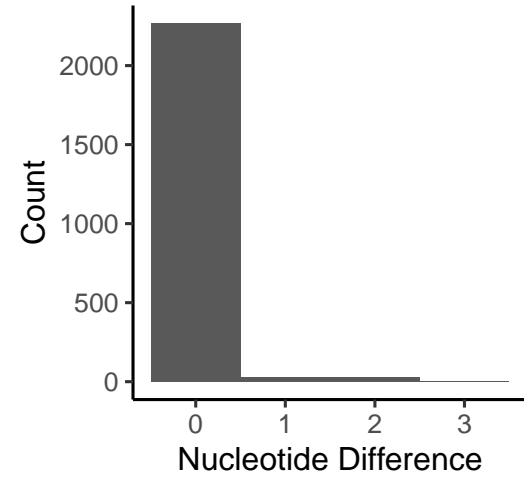
### TRBV10-2\*ap01

1523 sequences assigned  
1510 (99.1%) exact matches, in which:  
1470 unique CDR3  
13 unique J



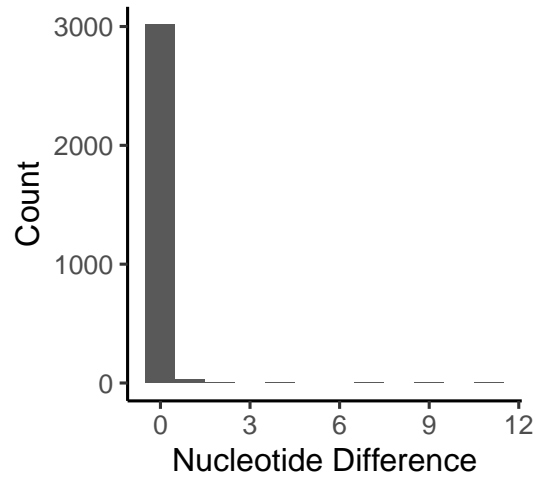
### TRBV13\*ap01

2327 sequences assigned  
2267 (97.4%) exact matches, in which:  
2191 unique CDR3  
13 unique J



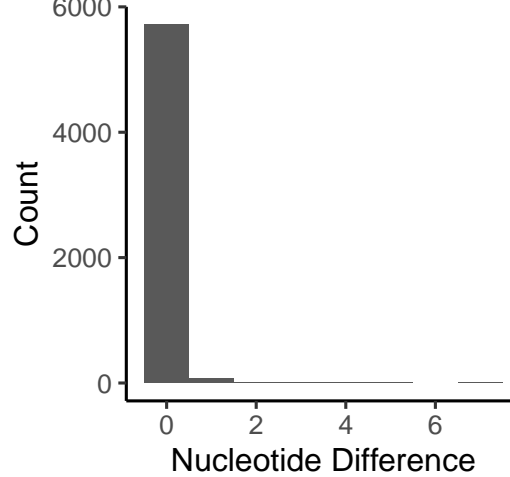
### TRBV10-1\*ap01

3048 sequences assigned  
3015 (98.9%) exact matches, in which:  
2925 unique CDR3  
13 unique J



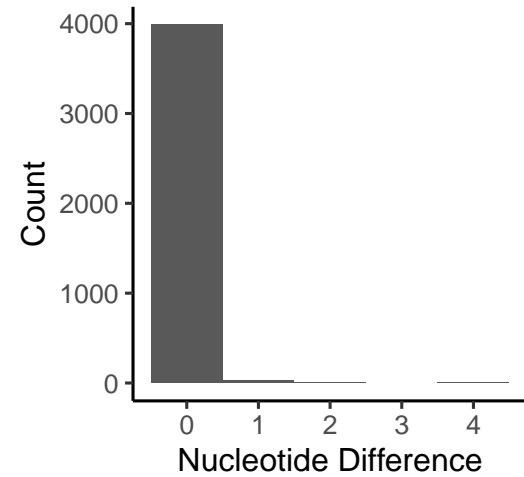
### TRBV10-3\*ap01

5790 sequences assigned  
5715 (98.7%) exact matches, in which:  
5571 unique CDR3  
13 unique J



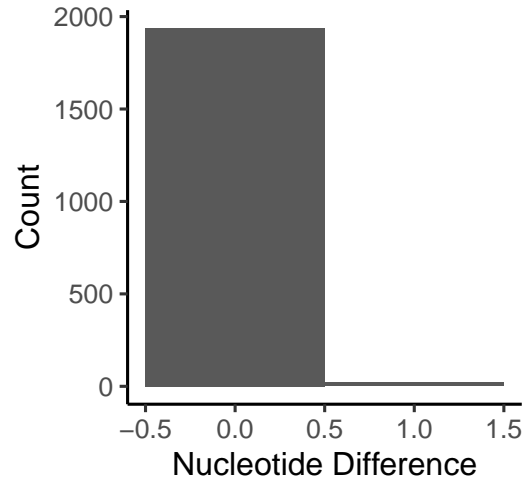
### TRBV14\*ap01

4015 sequences assigned  
3988 (99.3%) exact matches, in which:  
3929 unique CDR3  
13 unique J



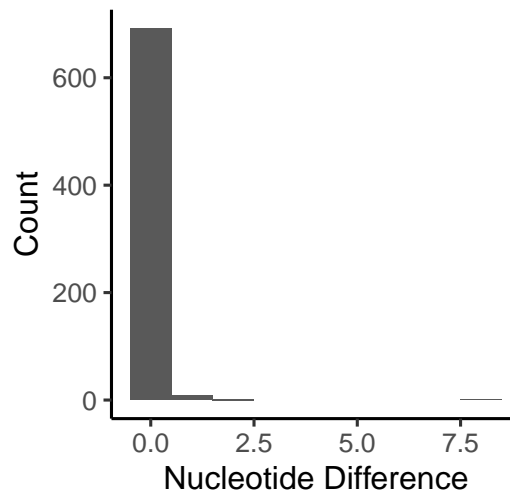
### TRBV20-1\*ap02

1959 sequences assigned  
1938 (98.9%) exact matches, in which:  
1902 unique CDR3  
13 unique J



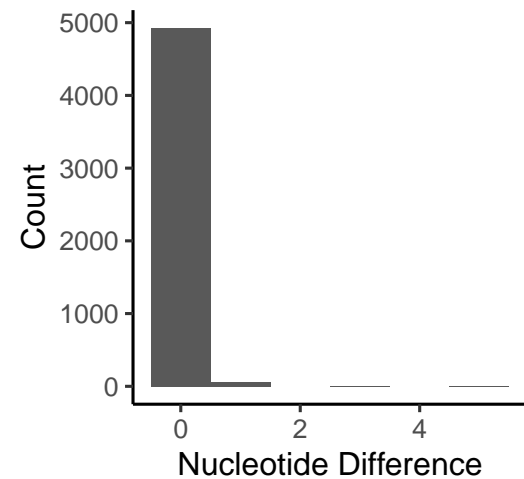
### TRBV1\*ap01

704 sequences assigned  
692 (98.3%) exact matches, in which:  
675 unique CDR3  
13 unique J



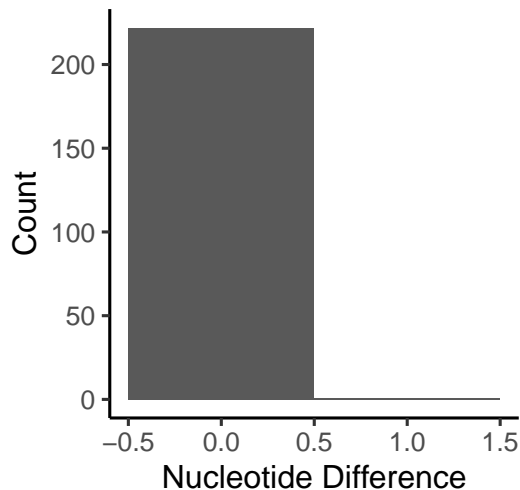
### TRBV15\*ap02

4988 sequences assigned  
4926 (98.8%) exact matches, in which:  
4822 unique CDR3  
13 unique J



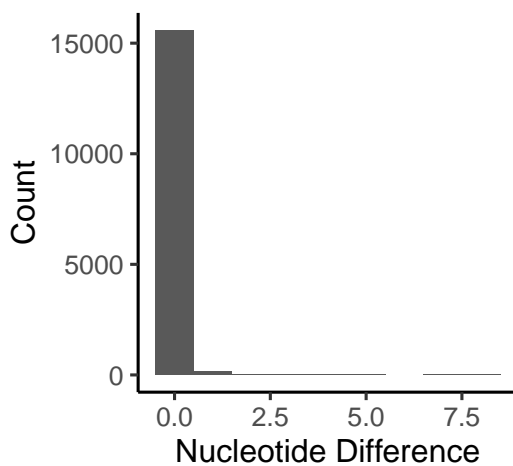
### TRBV16\*ap01

223 sequences assigned  
222 (99.6%) exact matches, in which:  
218 unique CDR3  
13 unique J



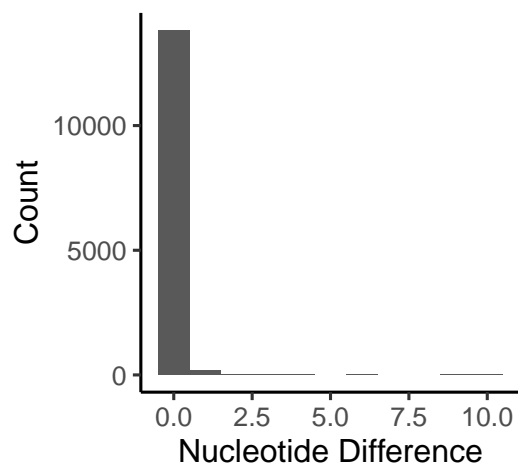
### TRBV19\*ap01

15742 sequences assigned  
15589 (99%) exact matches, in which:  
15440 unique CDR3  
13 unique J



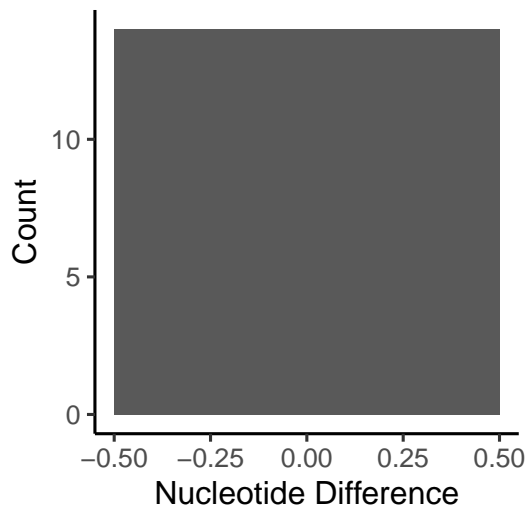
### TRBV27\*ap01

14019 sequences assigned  
13827 (98.6%) exact matches, in which:  
13421 unique CDR3  
13 unique J



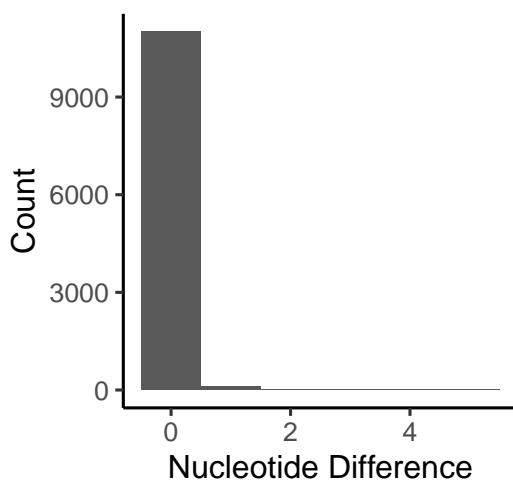
### TRBV17\*ap01

14 sequences assigned  
14 (100%) exact matches, in which:  
14 unique CDR3  
7 unique J



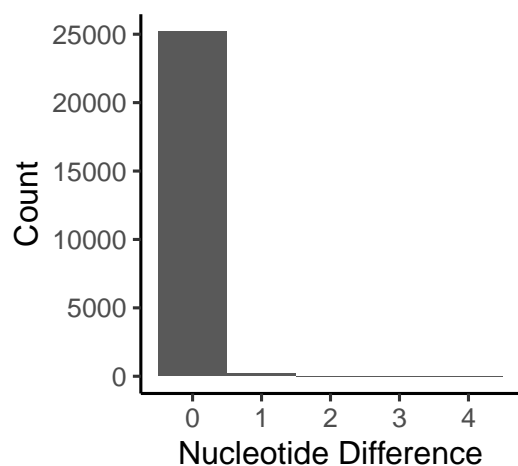
### TRBV2\*ap01

11137 sequences assigned  
11006 (98.8%) exact matches, in which:  
10710 unique CDR3  
13 unique J



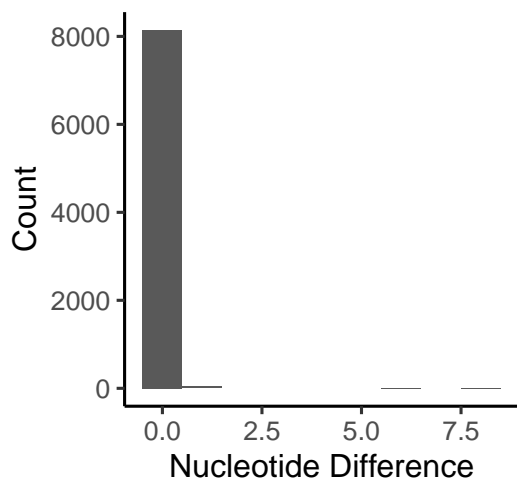
### TRBV28\*ap01

25421 sequences assigned  
25202 (99.1%) exact matches, in which:  
24800 unique CDR3  
13 unique J



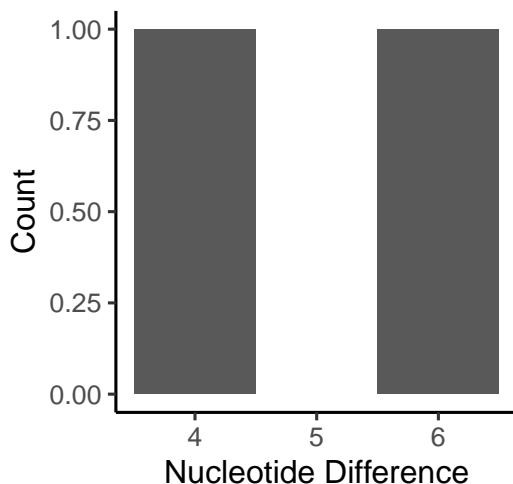
### TRBV18\*ap01

8188 sequences assigned  
8144 (99.5%) exact matches, in which:  
8074 unique CDR3  
13 unique J



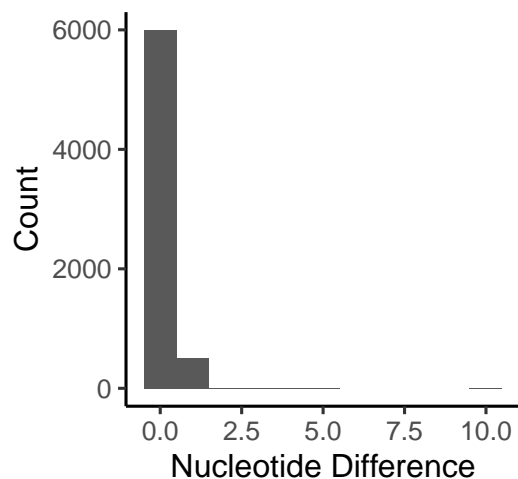
### TRBV26\*ap01

2 sequences assigned  
No exact matches.



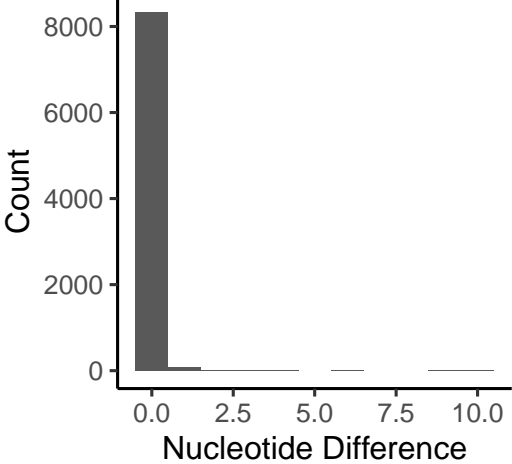
### TRBV30\*ap01

6520 sequences assigned  
5997 (92%) exact matches, in which:  
5855 unique CDR3  
13 unique J



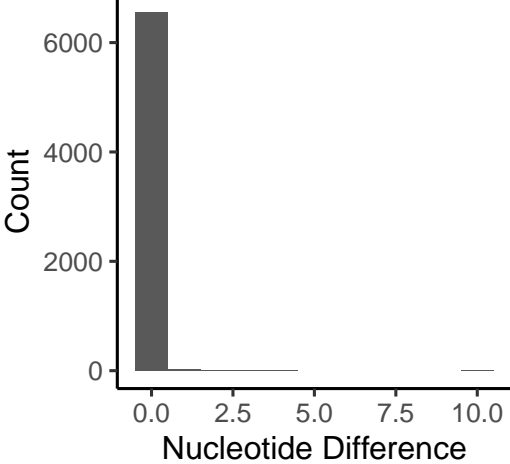
TRBV9\*ap01

8410 sequences assigned  
8327 (99%) exact matches, in which:  
8180 unique CDR3  
13 unique J



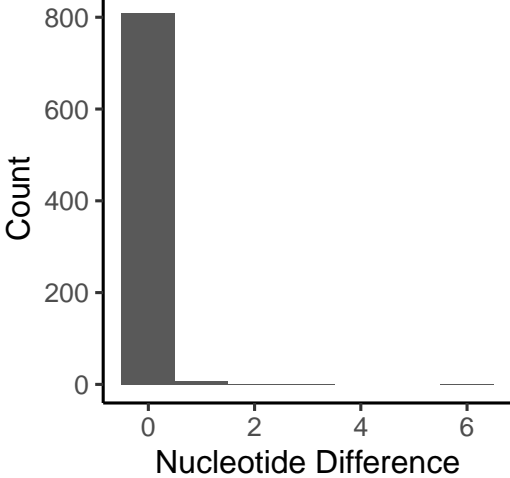
TRBV11-2\*ap01

6591 sequences assigned  
6552 (99.4%) exact matches, in which:  
6456 unique CDR3  
13 unique J



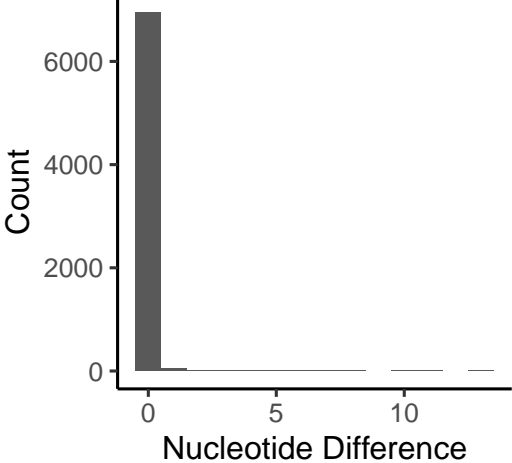
TRBV12-2\*ap01

821 sequences assigned  
810 (98.7%) exact matches, in which:  
798 unique CDR3  
13 unique J



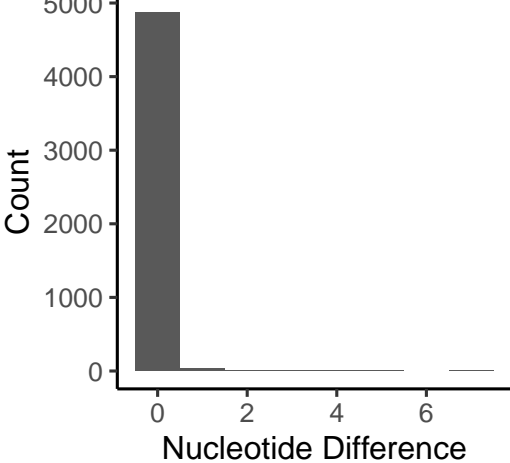
TRBV21-1\*ap01

7039 sequences assigned  
6944 (98.7%) exact matches, in which:  
6869 unique CDR3  
13 unique J



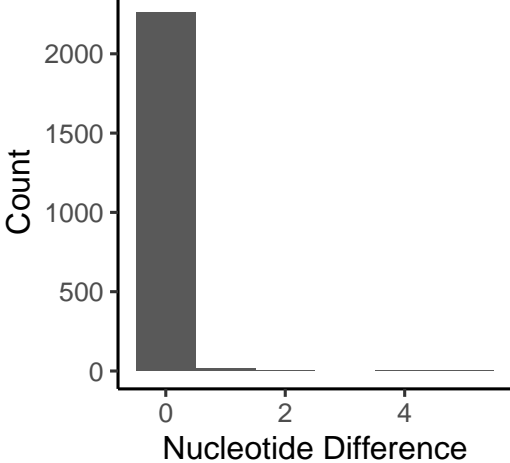
TRBV11-3\*ap01

4906 sequences assigned  
4868 (99.2%) exact matches, in which:  
4807 unique CDR3  
13 unique J



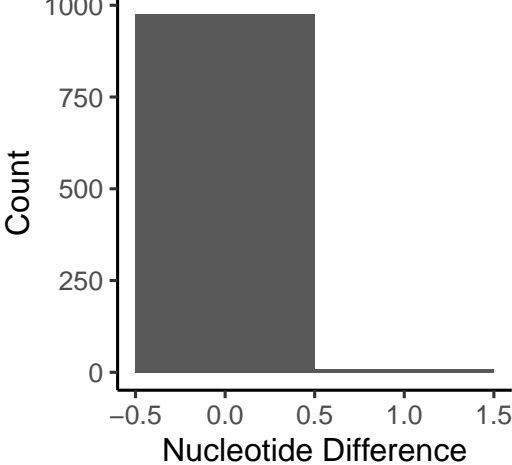
TRBV12-5\*ap01

2280 sequences assigned  
2259 (99.1%) exact matches, in which:  
2209 unique CDR3  
13 unique J



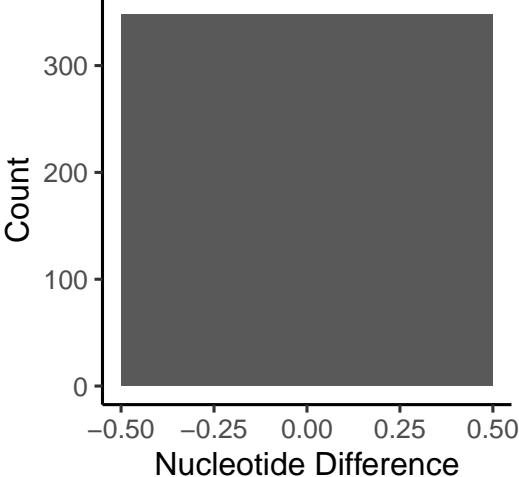
TRBV11-1\*ap01

985 sequences assigned  
976 (99.1%) exact matches, in which:  
957 unique CDR3  
13 unique J



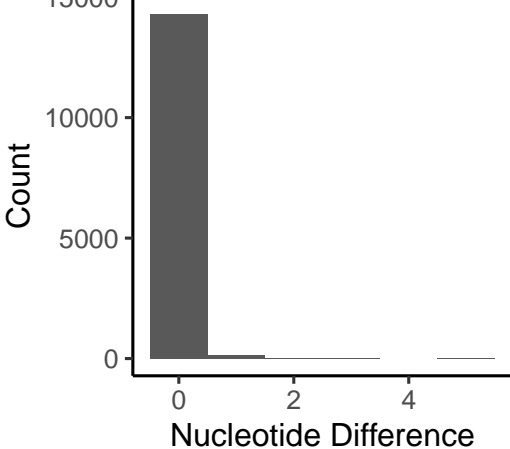
TRBV12-1\*ap01

348 sequences assigned  
348 (100%) exact matches, in which:  
339 unique CDR3  
13 unique J



TRBV12-34\*ap01

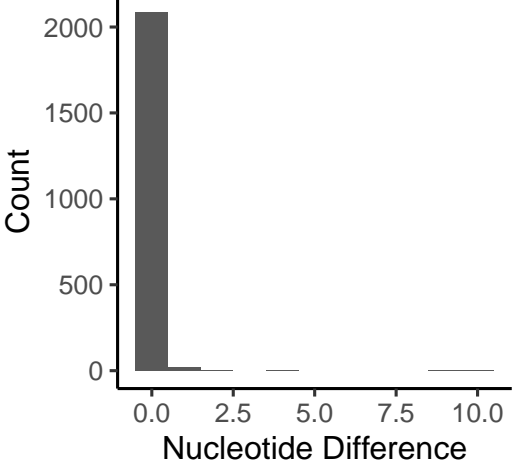
14458 sequences assigned  
14309 (99%) exact matches, in which:  
14013 unique CDR3  
13 unique J





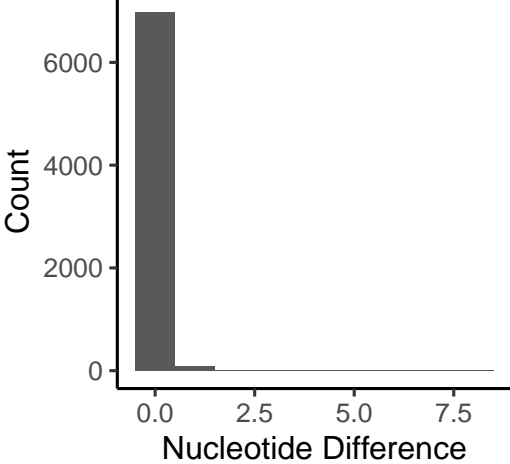
TRBV23-1\*ap01

2109 sequences assigned  
2085 (98.9%) exact matches, in which:  
2039 unique CDR3  
13 unique J



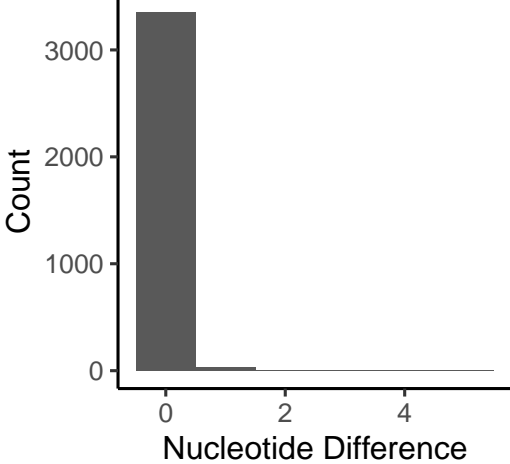
TRBV4-1\*ap01

7069 sequences assigned  
6973 (98.6%) exact matches, in which:  
6775 unique CDR3  
13 unique J



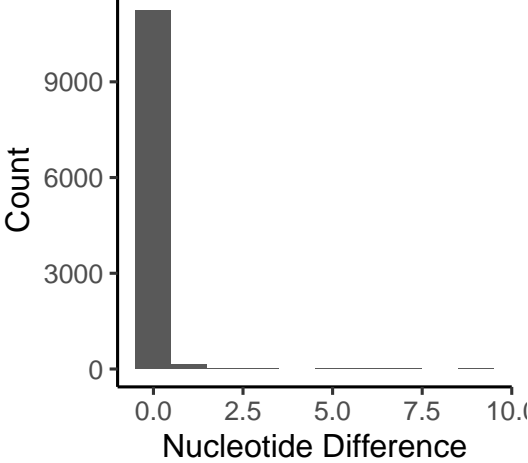
TRBV25-1\*ap01

3392 sequences assigned  
3351 (98.8%) exact matches, in which:  
3265 unique CDR3  
13 unique J



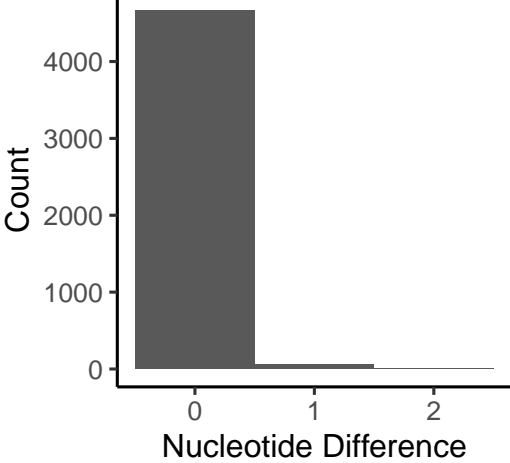
TRBV3-12\*ap01

11383 sequences assigned  
11228 (98.6%) exact matches, in which:  
10950 unique CDR3  
13 unique J



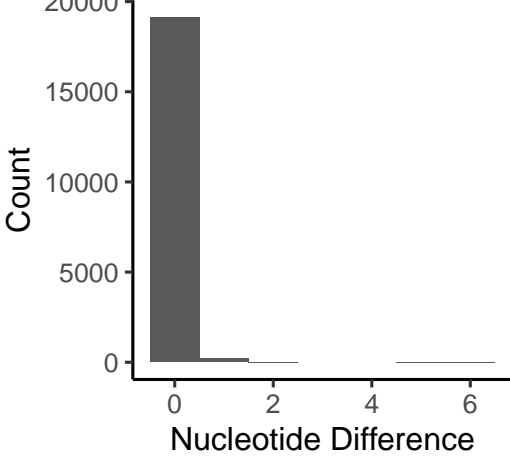
TRBV4-2\*ap01

4723 sequences assigned  
4661 (98.7%) exact matches, in which:  
4536 unique CDR3  
13 unique J



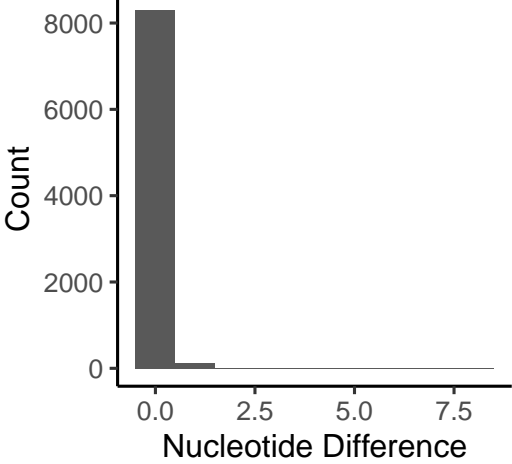
TRBV5-1\*ap01

19318 sequences assigned  
19120 (99%) exact matches, in which:  
18584 unique CDR3  
13 unique J



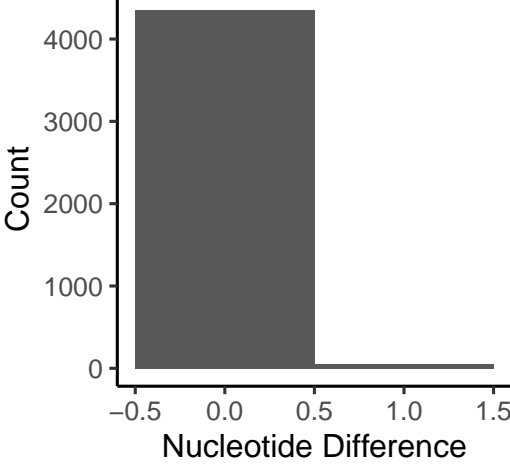
TRBV24-1\*ap01

8436 sequences assigned  
8301 (98.4%) exact matches, in which:  
8117 unique CDR3  
13 unique J



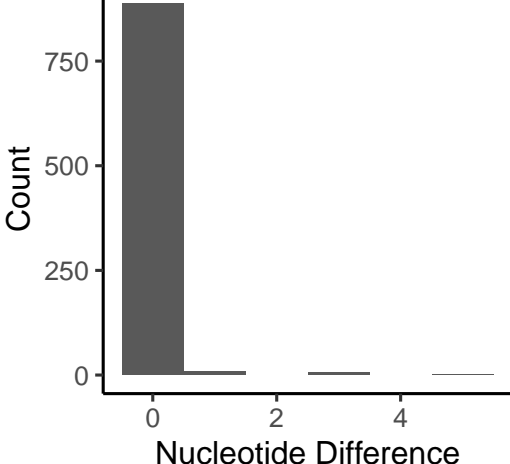
TRBV4-3\*ap01

4403 sequences assigned  
4352 (98.8%) exact matches, in which:  
4243 unique CDR3  
13 unique J



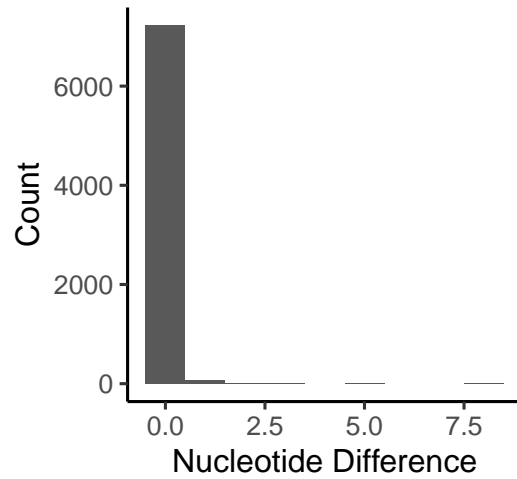
TRBV5-3\*ap01

903 sequences assigned  
888 (98.3%) exact matches, in which:  
873 unique CDR3  
13 unique J



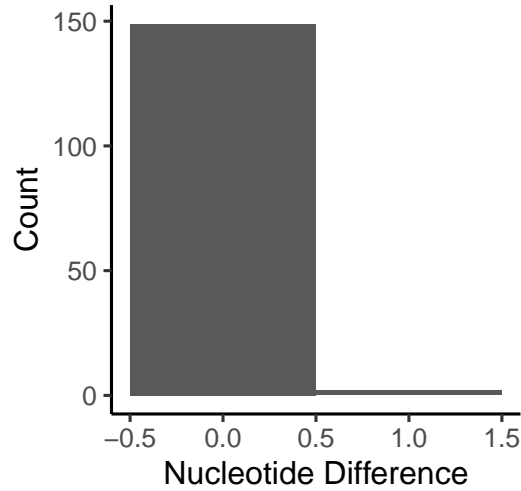
### TRBV5-4\*ap01

7307 sequences assigned  
7224 (98.9%) exact matches, in which:  
7054 unique CDR3  
13 unique J



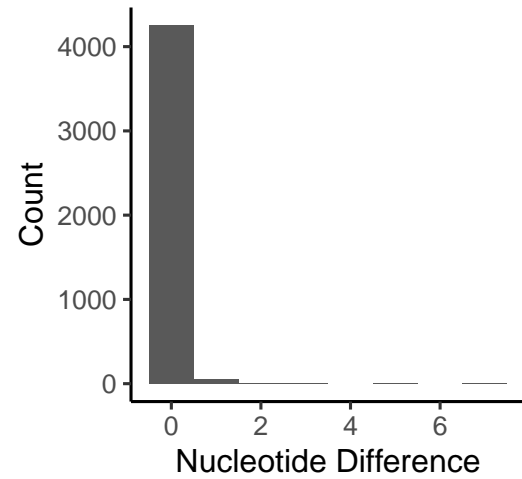
### TRBV5-7\*ap01

151 sequences assigned  
149 (98.7%) exact matches, in which:  
141 unique CDR3  
13 unique J



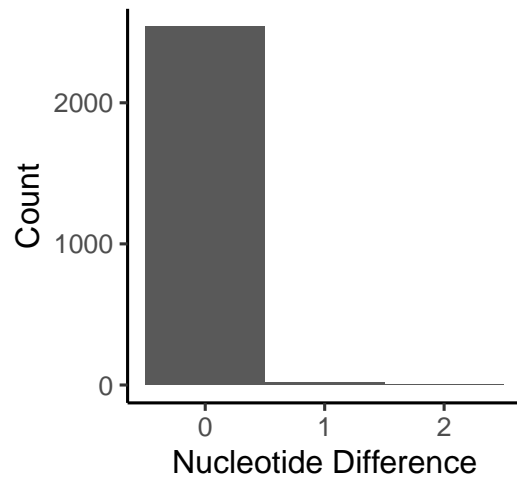
### TRBV6-4\*ap01

4314 sequences assigned  
4252 (98.6%) exact matches, in which:  
4194 unique CDR3  
13 unique J



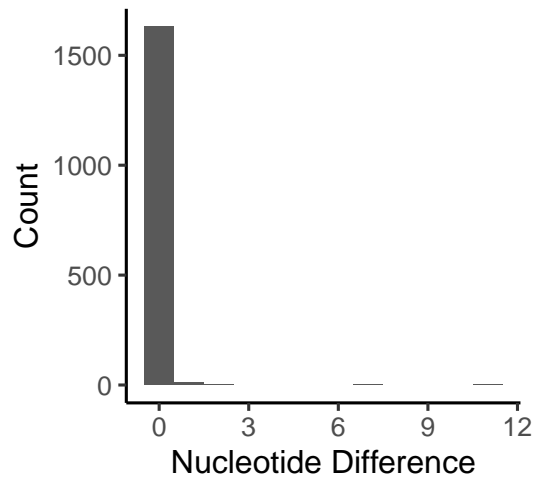
### TRBV5-5\*ap01

2558 sequences assigned  
2539 (99.3%) exact matches, in which:  
2513 unique CDR3  
13 unique J



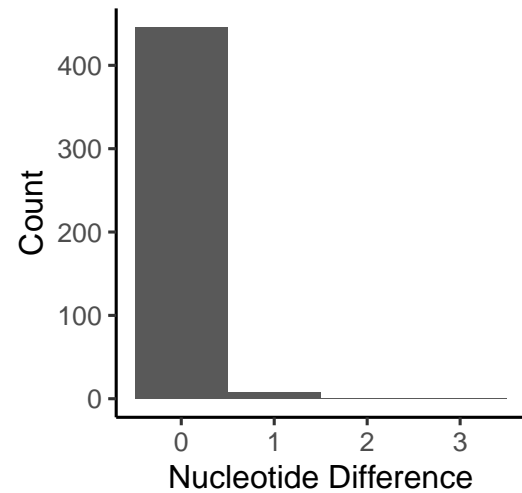
### TRBV5-8\*ap01

1646 sequences assigned  
1630 (99%) exact matches, in which:  
1616 unique CDR3  
13 unique J



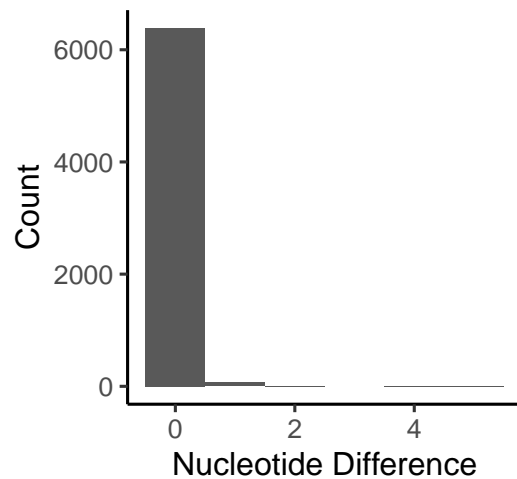
### TRBV6-7\*ap01

456 sequences assigned  
446 (97.8%) exact matches, in which:  
439 unique CDR3  
13 unique J



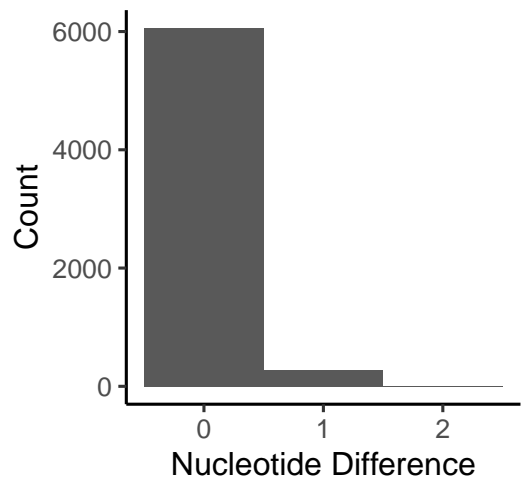
### TRBV5-6\*ap01

6459 sequences assigned  
6387 (98.9%) exact matches, in which:  
6161 unique CDR3  
13 unique J



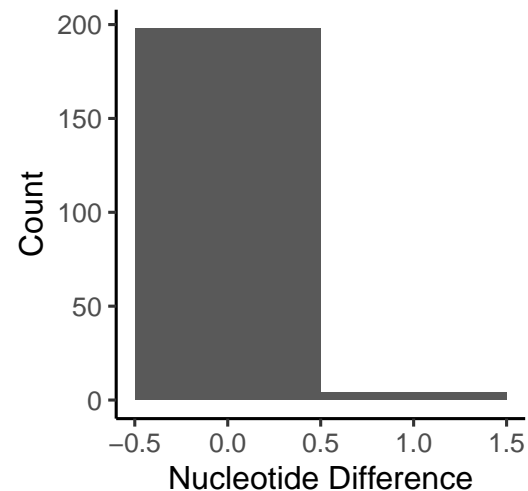
### TRBV6-1\*ap01

6334 sequences assigned  
6059 (95.7%) exact matches, in which:  
5878 unique CDR3  
13 unique J



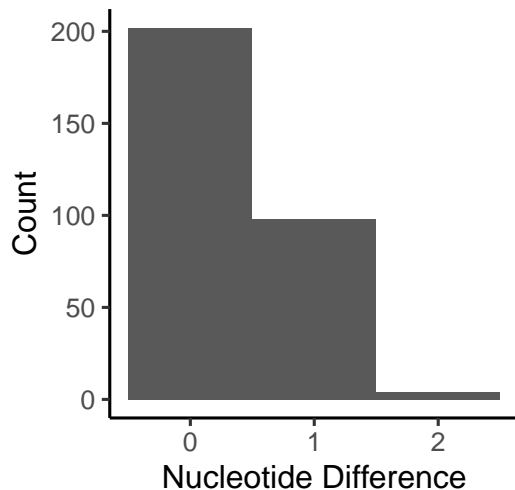
### TRBV6-8\*ap01

202 sequences assigned  
198 (98%) exact matches, in which:  
192 unique CDR3  
13 unique J



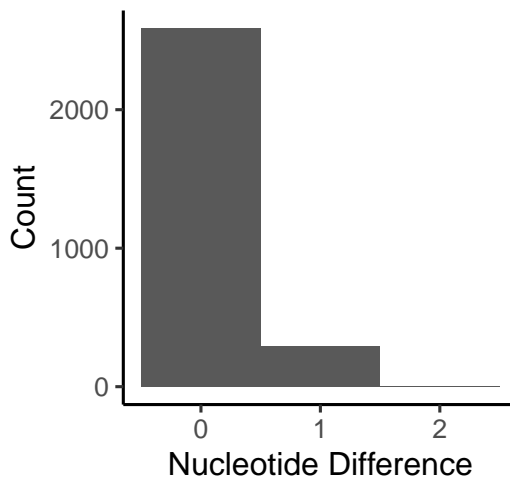
### TRBV6–9\*ap01

304 sequences assigned  
202 (66.4%) exact matches, in which:  
196 unique CDR3  
13 unique J



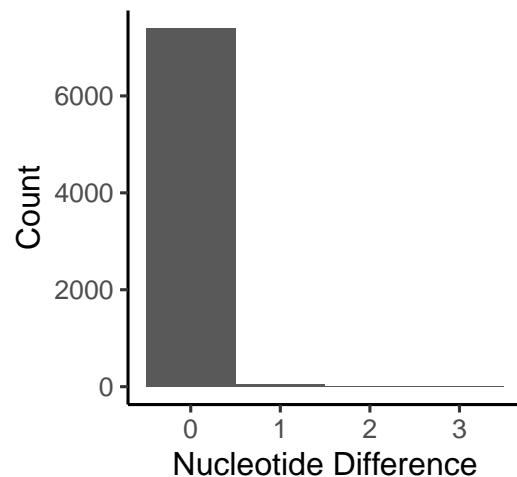
### TRBV6–56\*ap02

2885 sequences assigned  
2587 (89.7%) exact matches, in which:  
2511 unique CDR3  
13 unique J



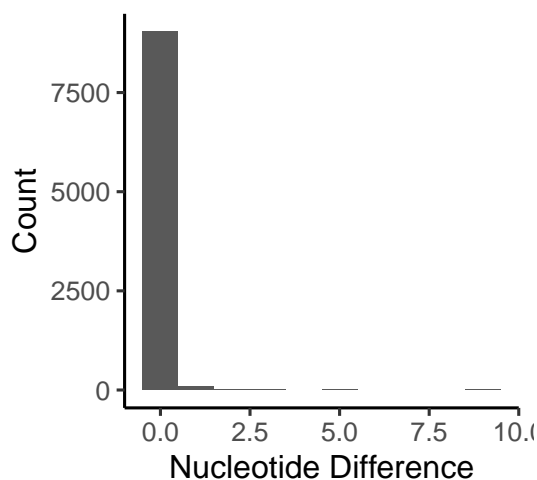
### TRBV7–2\*ap01

7453 sequences assigned  
7393 (99.2%) exact matches, in which:  
7281 unique CDR3  
13 unique J



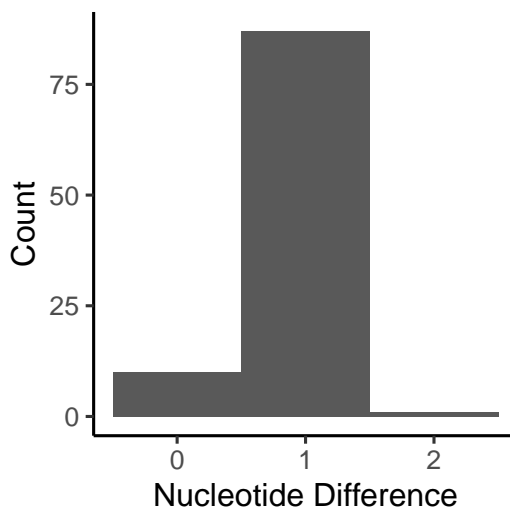
### TRBV6–23\*ap01

9131 sequences assigned  
9034 (98.9%) exact matches, in which:  
8708 unique CDR3  
13 unique J



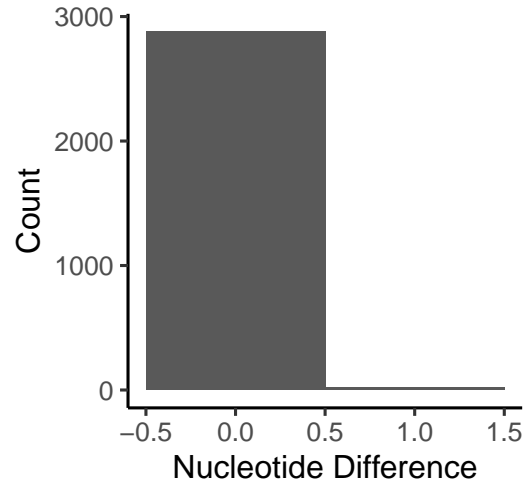
### TRBV7–1\*ap01\_T296C

98 sequences assigned  
10 (10.2%) exact matches, in which:  
10 unique CDR3  
5 unique J



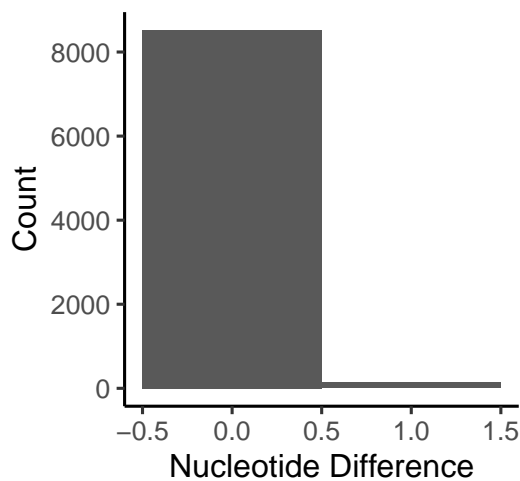
### TRBV7–2\*ap01\_G297A

2901 sequences assigned  
2878 (99.2%) exact matches, in which:  
2840 unique CDR3  
13 unique J



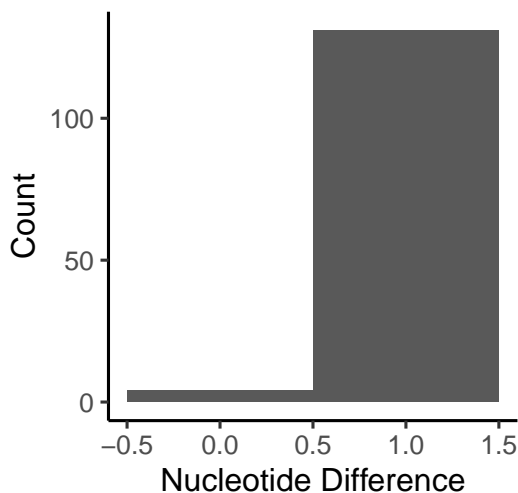
### TRBV6–56\*ap01

8658 sequences assigned  
8523 (98.4%) exact matches, in which:  
8246 unique CDR3  
13 unique J



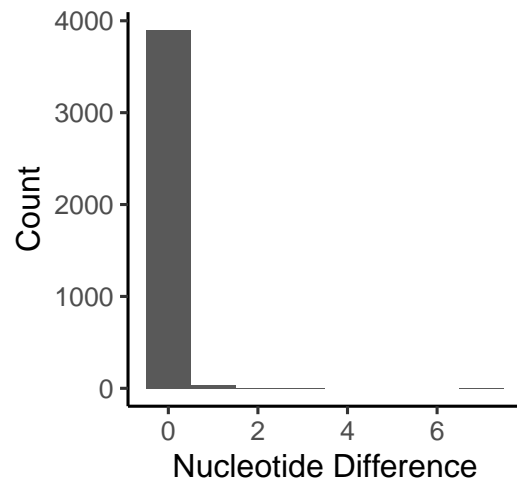
### TRBV7–1\*ap01\_T296C\_

135 sequences assigned  
4 (3%) exact matches, in which:  
4 unique CDR3  
4 unique J



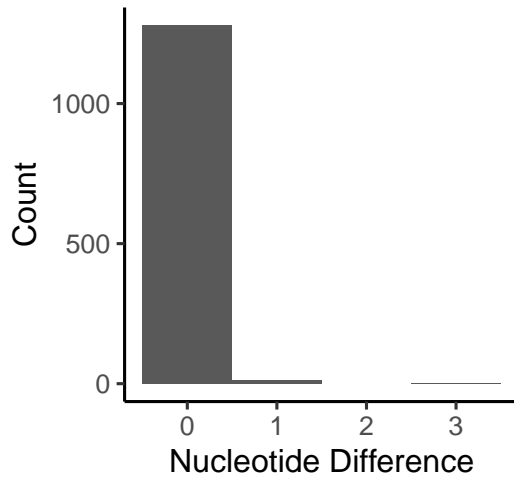
### TRBV7–3\*ap01

3938 sequences assigned  
3899 (99%) exact matches, in which:  
3841 unique CDR3  
13 unique J



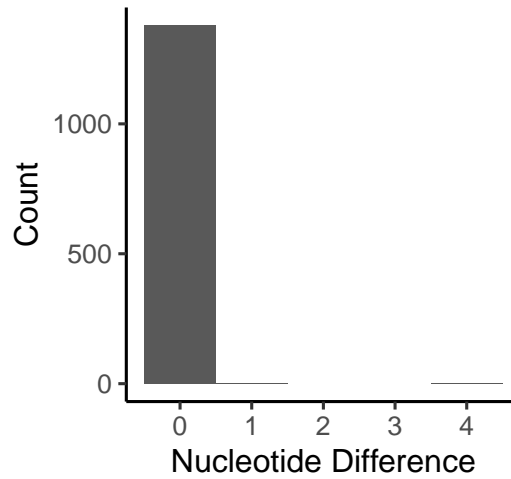
### TRBV7-3\*ap03

1294 sequences assigned  
1279 (98.8%) exact matches, in which:  
1257 unique CDR3  
13 unique J



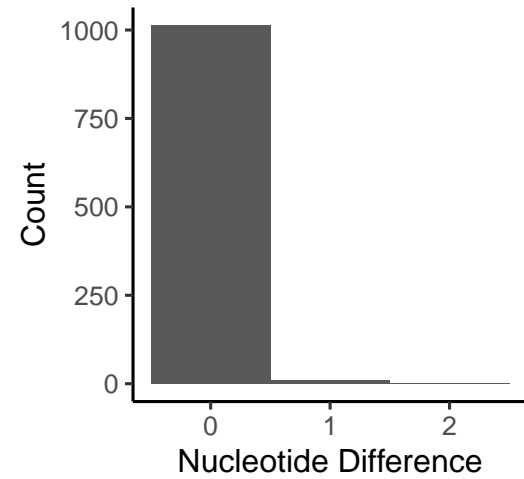
### TRBV7-7\*ap01\_C315T

1383 sequences assigned  
1379 (99.7%) exact matches, in which:  
1348 unique CDR3  
13 unique J



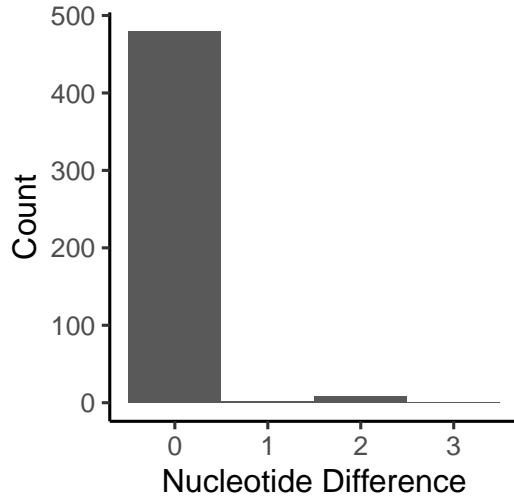
### TRBV7-8\*ap03\_C297A

1023 sequences assigned  
1013 (99%) exact matches, in which:  
991 unique CDR3  
13 unique J



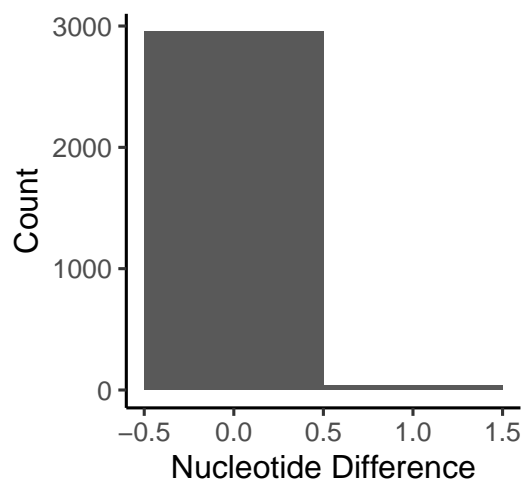
### TRBV7-4\*ap01

492 sequences assigned  
480 (97.6%) exact matches, in which:  
459 unique CDR3  
13 unique J



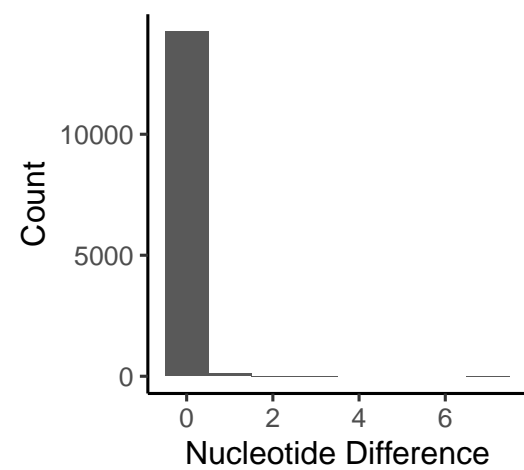
### TRBV7-8\*ap01

2987 sequences assigned  
2953 (98.9%) exact matches, in which:  
2879 unique CDR3  
13 unique J



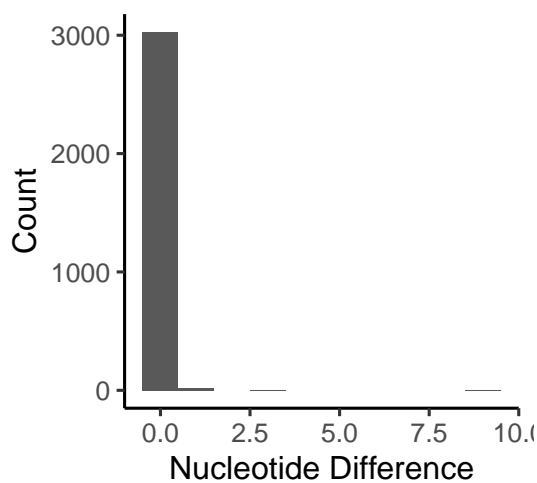
### TRBV7-9\*ap01

14359 sequences assigned  
14247 (99.2%) exact matches, in which:  
14026 unique CDR3  
13 unique J



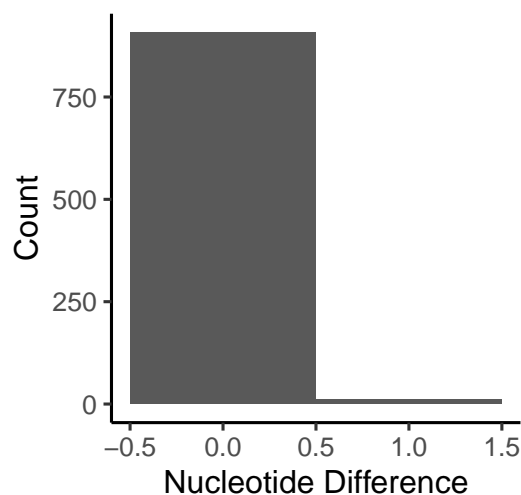
### TRBV7-6\*ap01

3048 sequences assigned  
3027 (99.3%) exact matches, in which:  
2962 unique CDR3  
13 unique J



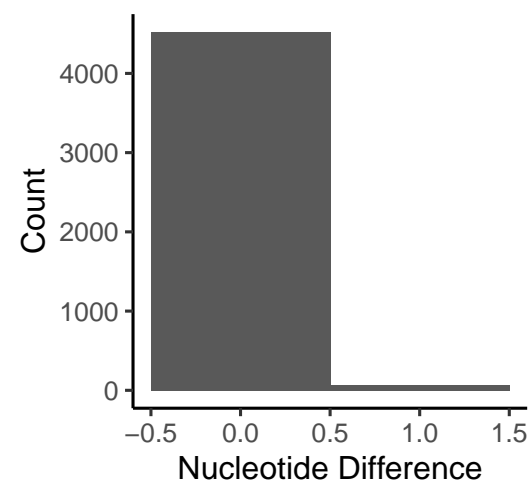
### TRBV7-8\*ap03

918 sequences assigned  
908 (98.9%) exact matches, in which:  
891 unique CDR3  
13 unique J



### TRBV29-1\*ap01

4589 sequences assigned  
4522 (98.5%) exact matches, in which:  
4393 unique CDR3  
13 unique J



# TRBV29-1\*ap02

794 sequences assigned  
785 (98.9%) exact matches, in which:  
763 unique CDR3  
13 unique J

