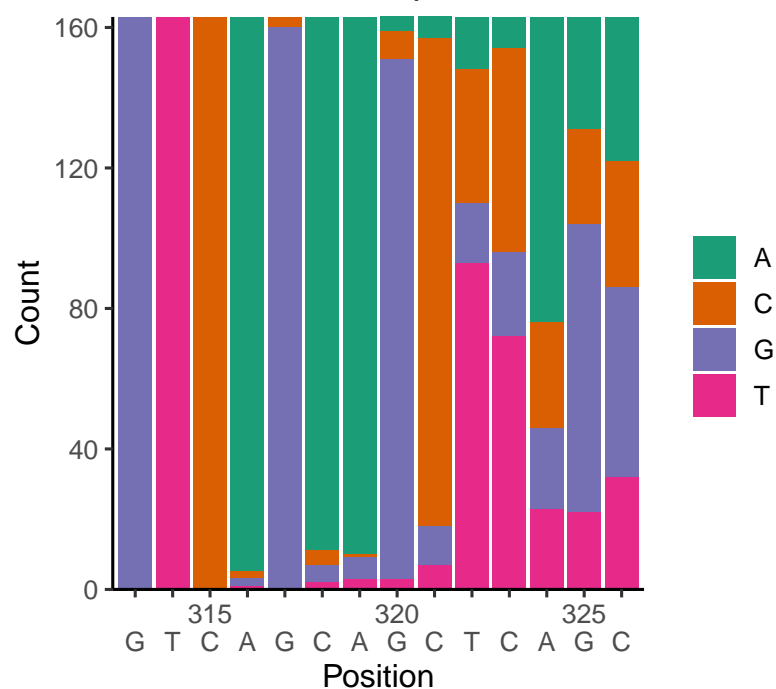
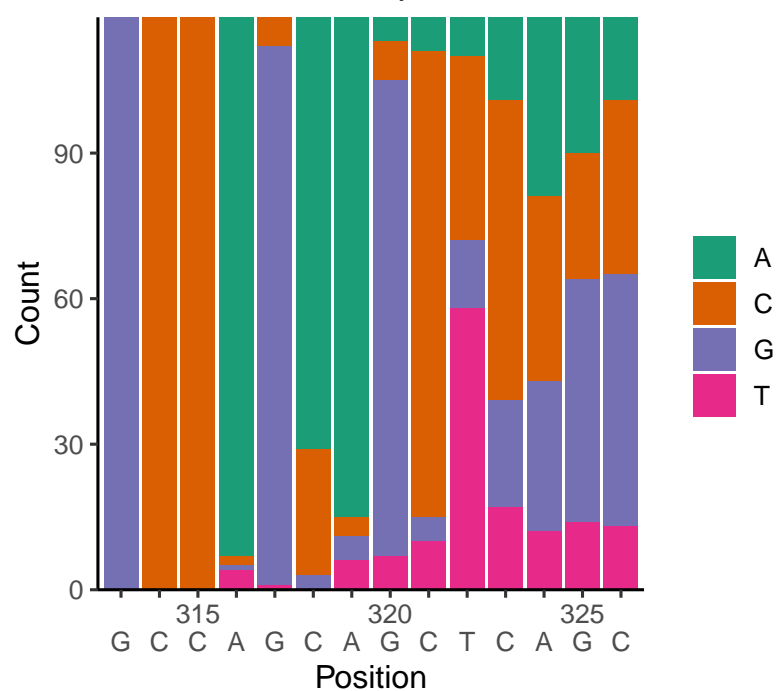


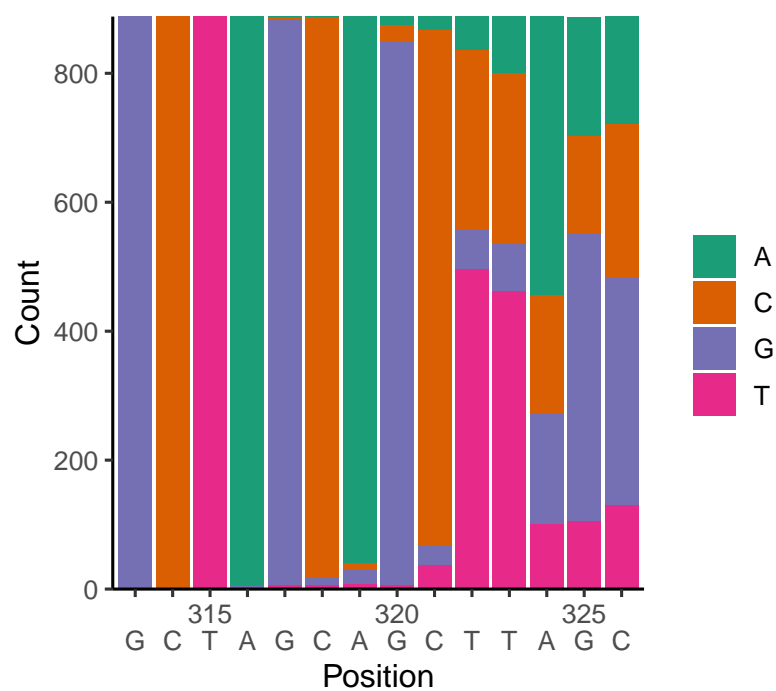
Gene TRBV7-1\*ap01\_T296C\_C314T



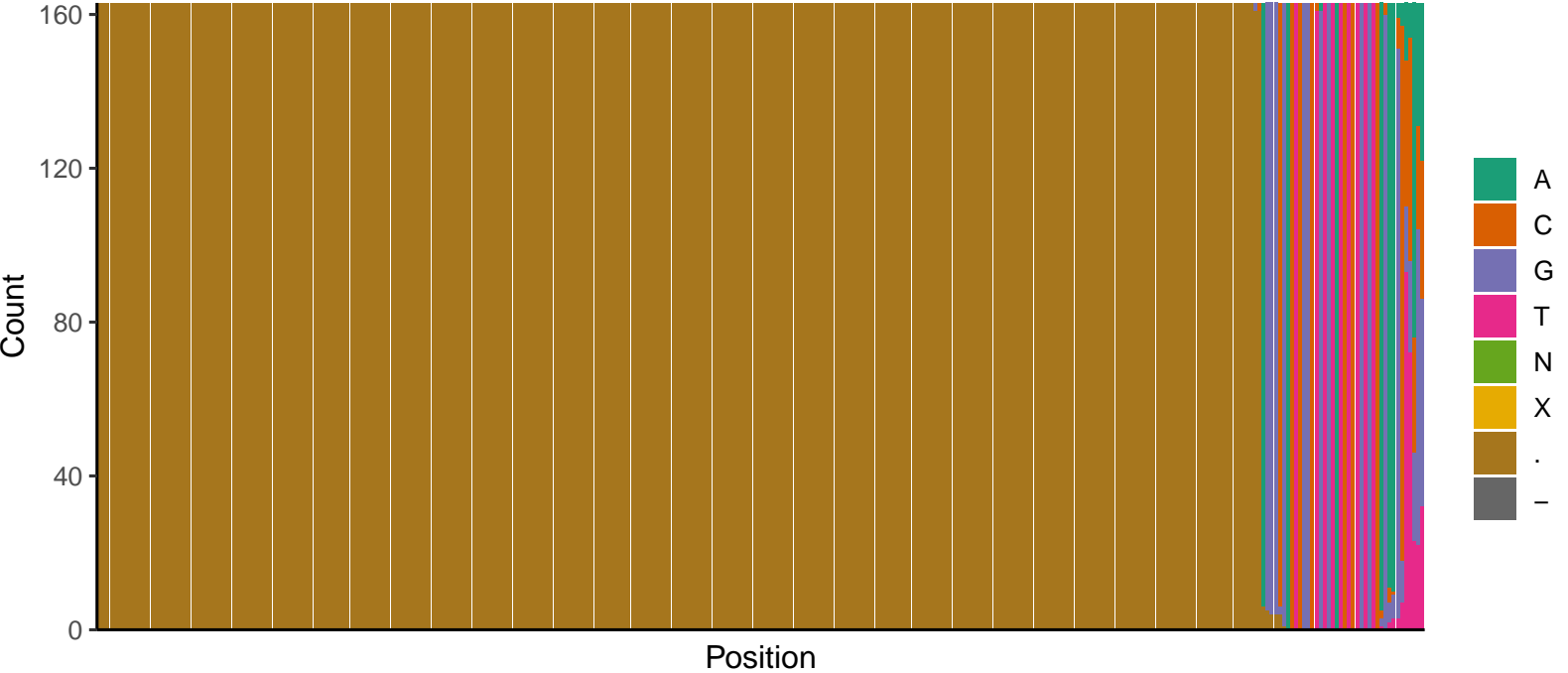
Gene TRBV7-1\*ap01\_T296C



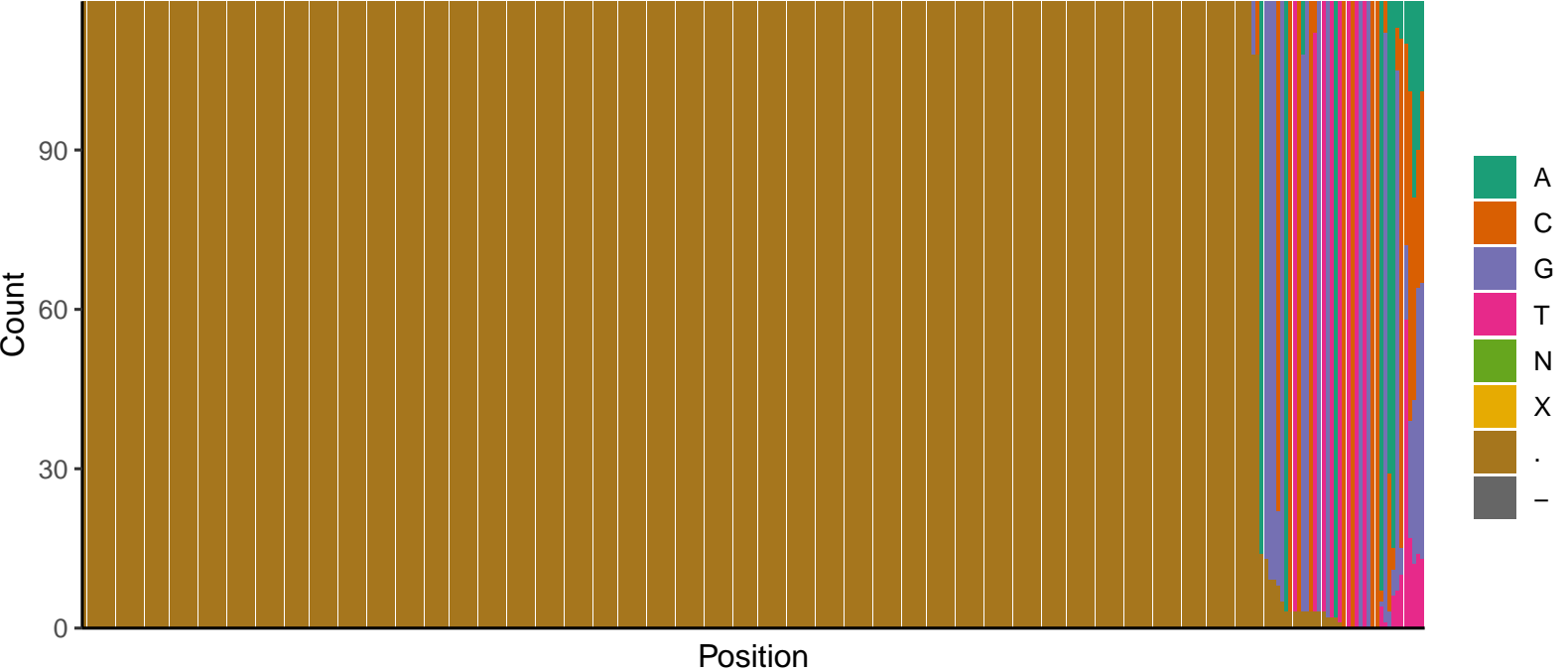
Gene TRBV7-7\*ap01\_C315T



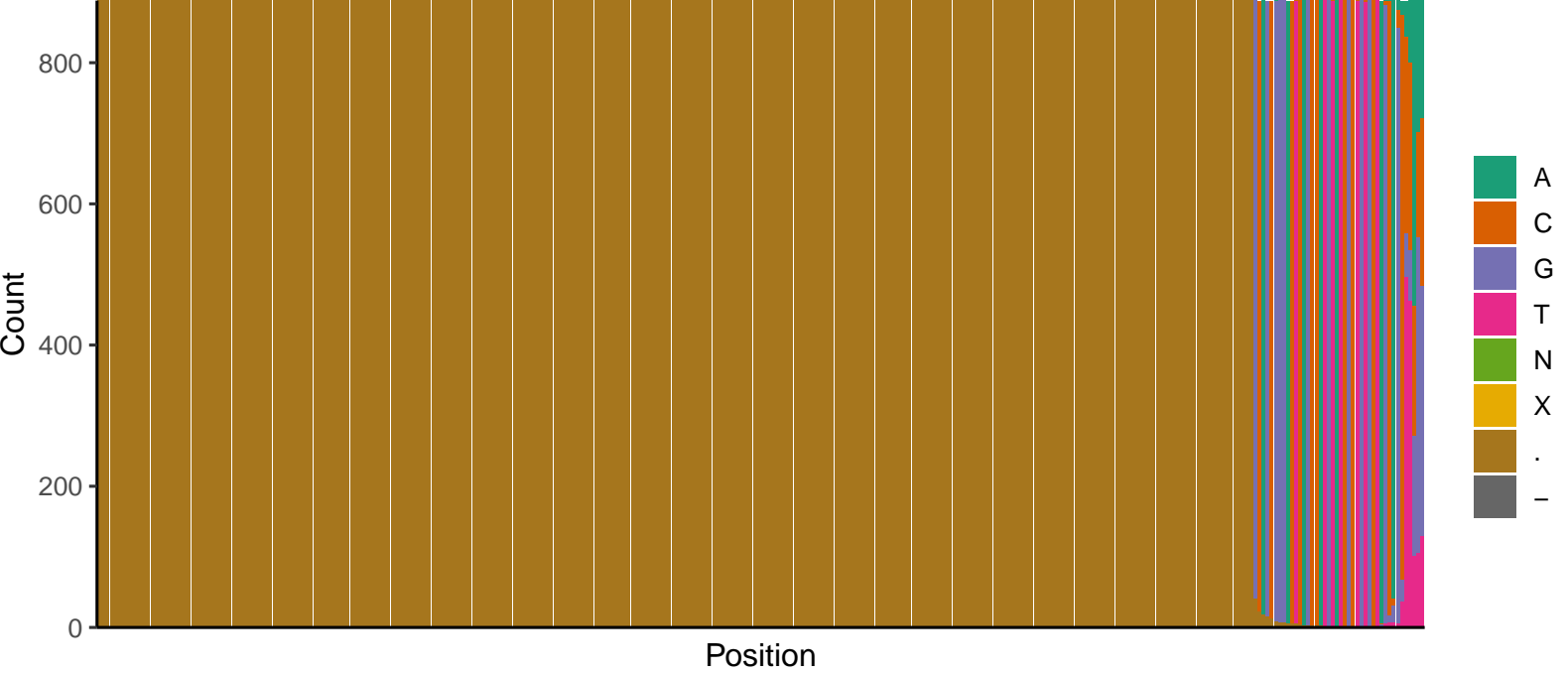
Gene TRBV7-1\*ap01\_T296C\_C314T



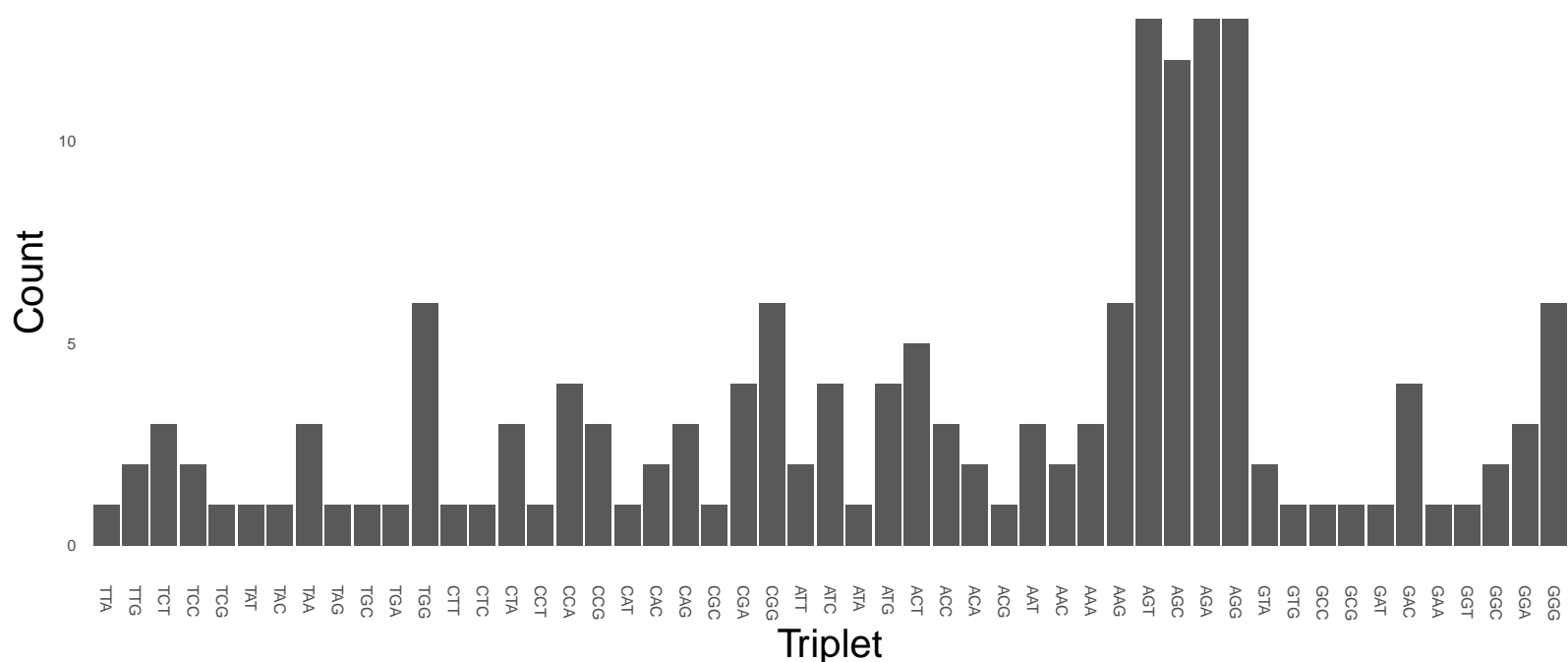
Gene TRBV7-1\*ap01\_T296C



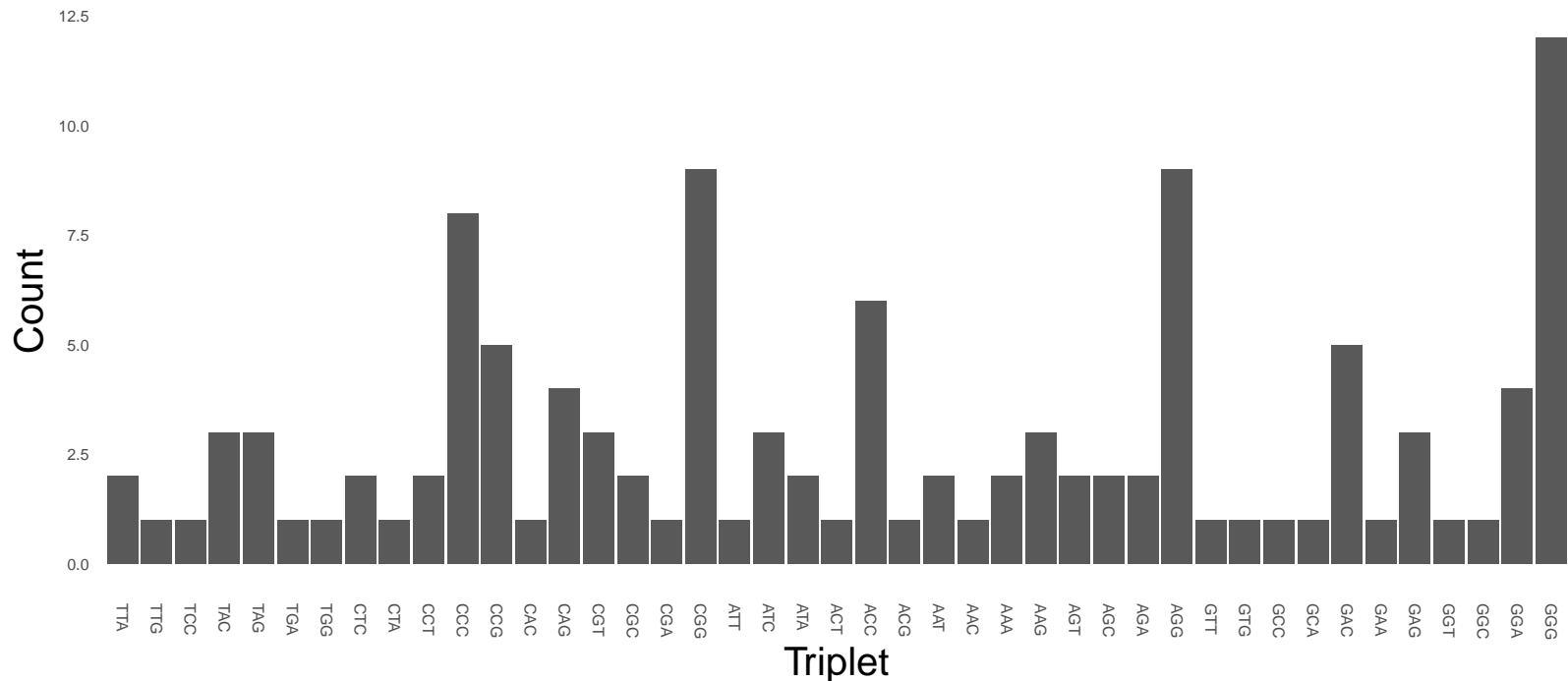
Gene TRBV7-7\*ap01\_C315T



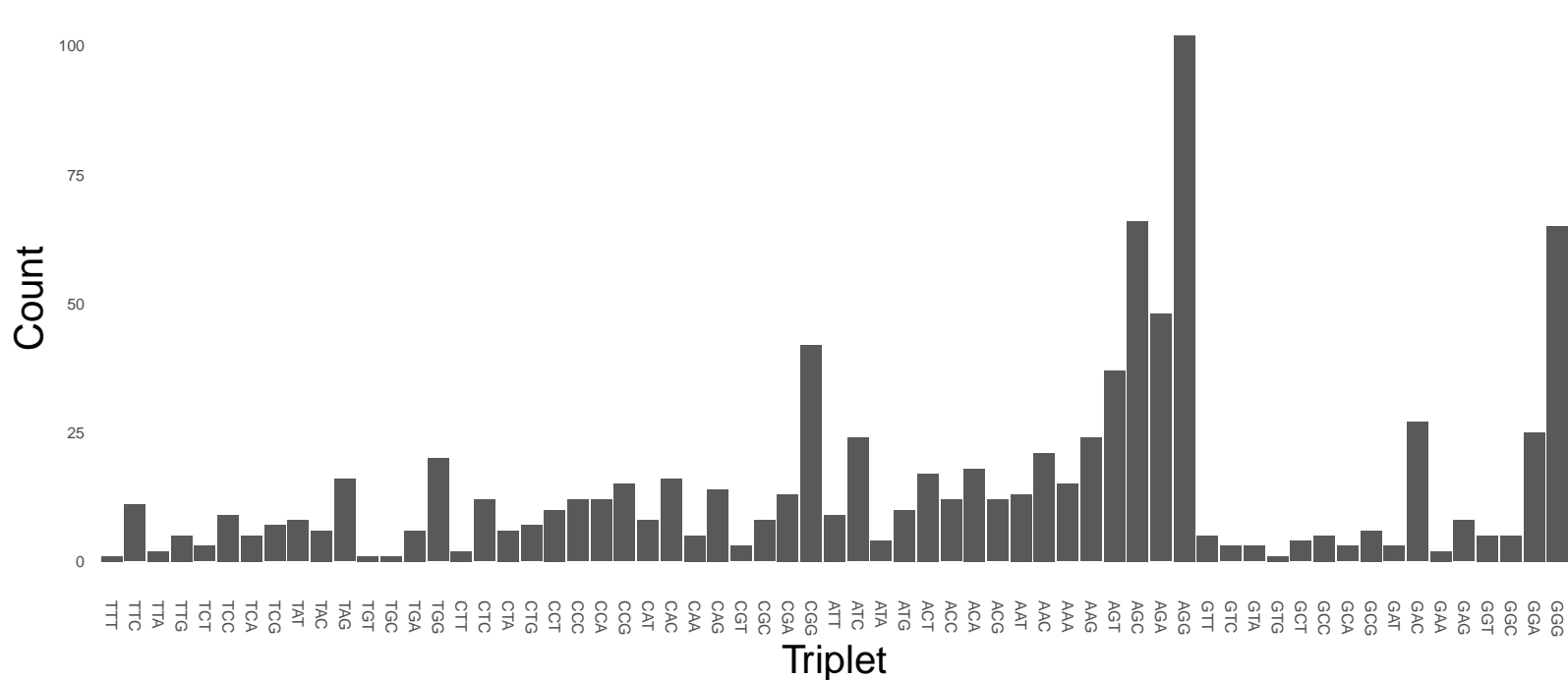
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



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

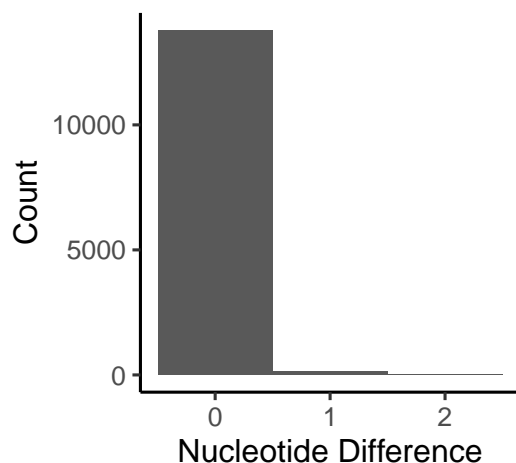


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



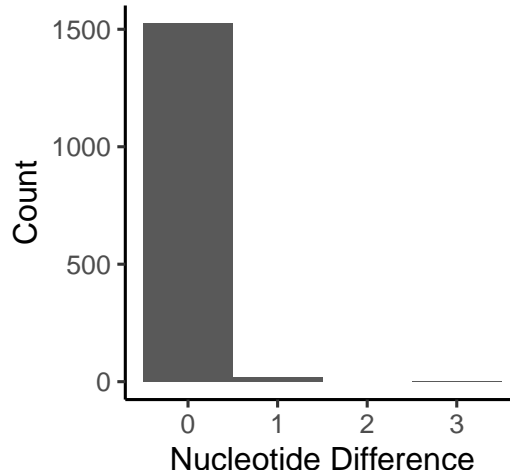
### TRBV20-1\*ap01

13948 sequences assigned  
13788 (98.9%) exact matches, in which:  
13580 unique CDR3  
13 unique J



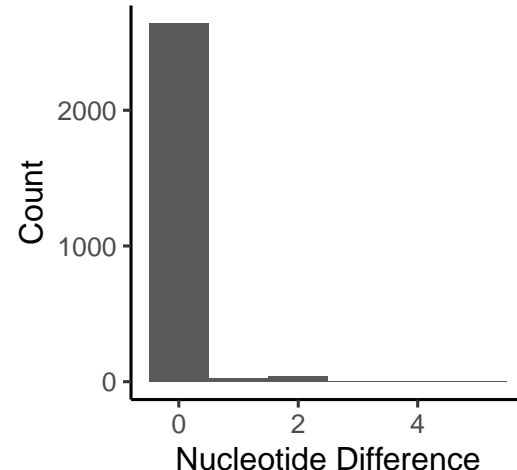
### TRBV10-2\*ap01

1544 sequences assigned  
1525 (98.8%) exact matches, in which:  
1504 unique CDR3  
13 unique J



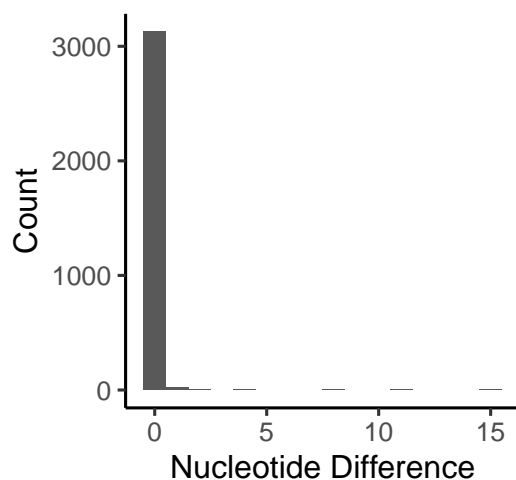
### TRBV13\*ap01

2716 sequences assigned  
2640 (97.2%) exact matches, in which:  
2566 unique CDR3  
13 unique J



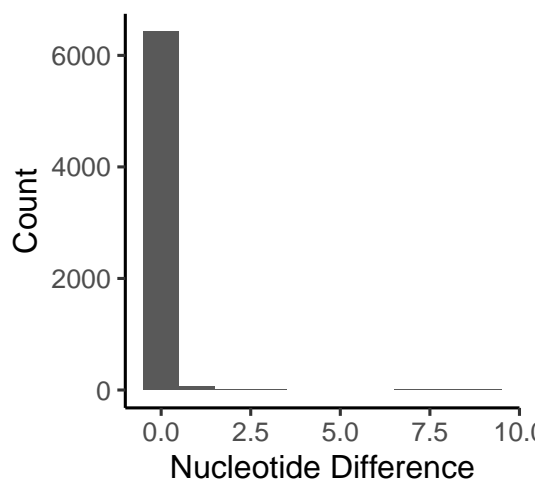
### TRBV10-1\*ap01

3160 sequences assigned  
3127 (99%) exact matches, in which:  
3062 unique CDR3  
14 unique J



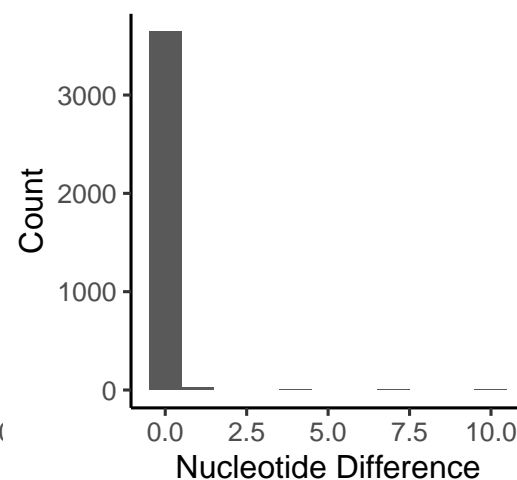
### TRBV10-3\*ap01

6503 sequences assigned  
6424 (98.8%) exact matches, in which:  
6315 unique CDR3  
13 unique J



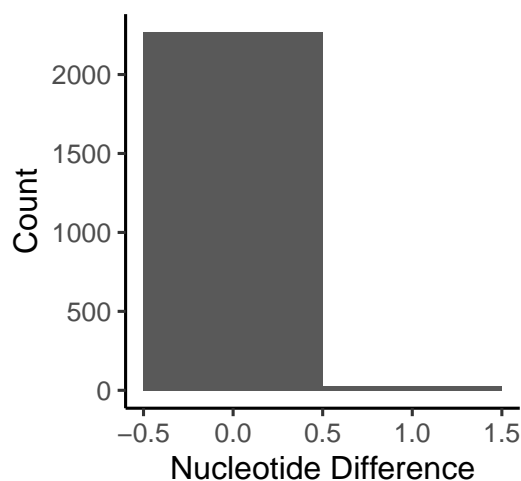
### TRBV14\*ap01

3676 sequences assigned  
3644 (99.1%) exact matches, in which:  
3589 unique CDR3  
13 unique J



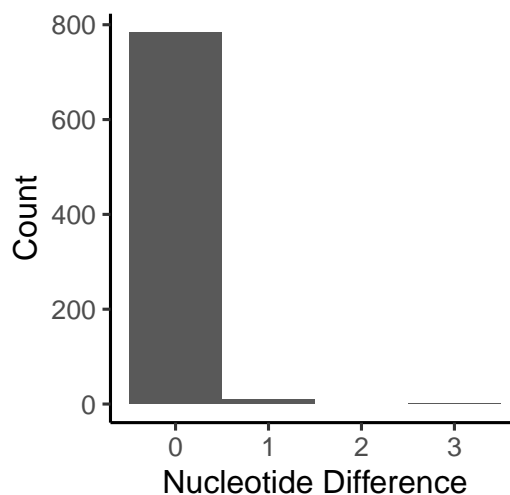
### TRBV20-1\*ap02

2295 sequences assigned  
2269 (98.9%) exact matches, in which:  
2233 unique CDR3  
13 unique J



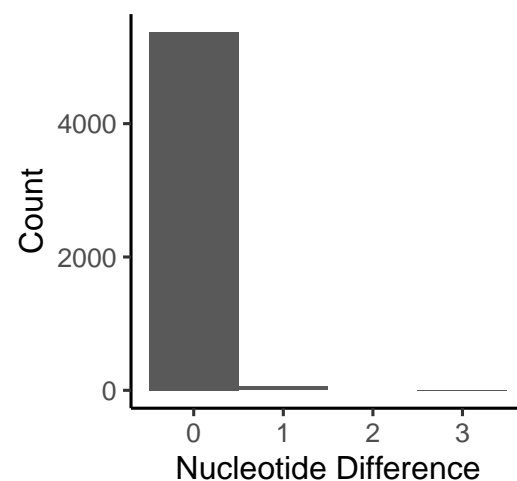
### TRBV1\*ap01

796 sequences assigned  
784 (98.5%) exact matches, in which:  
760 unique CDR3  
13 unique J



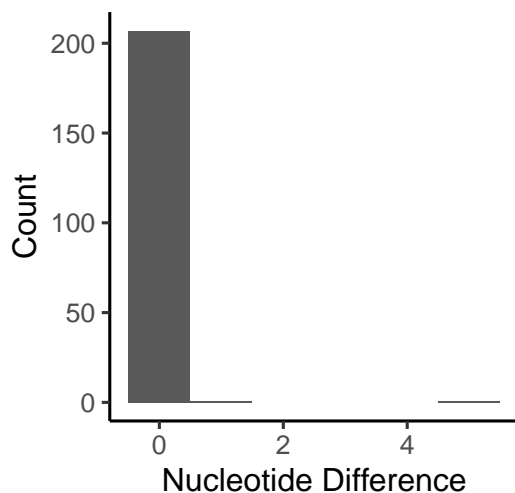
### TRBV15\*ap02

5431 sequences assigned  
5374 (99%) exact matches, in which:  
5241 unique CDR3  
13 unique J



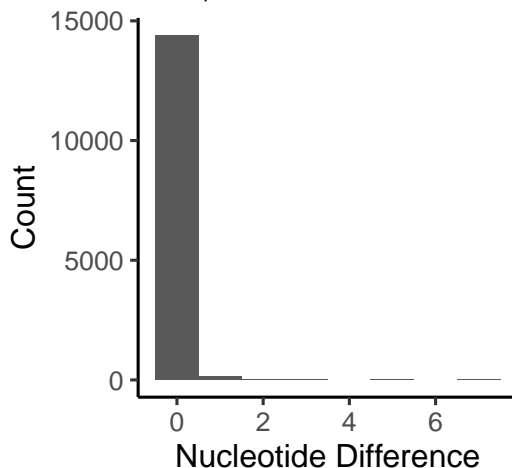
### TRBV16\*ap01

209 sequences assigned  
207 (99%) exact matches, in which:  
205 unique CDR3  
13 unique J



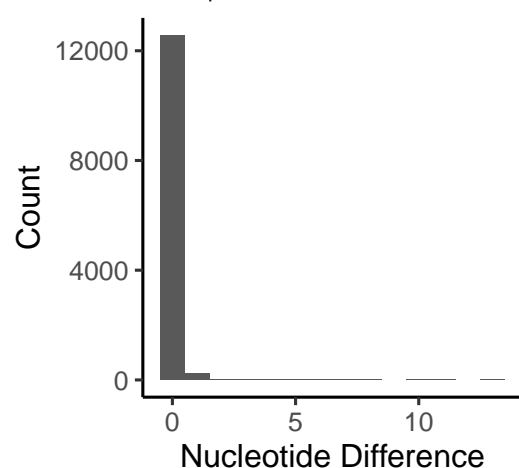
### TRBV2\*ap01

14552 sequences assigned  
14403 (99%) exact matches, in which:  
14151 unique CDR3  
13 unique J



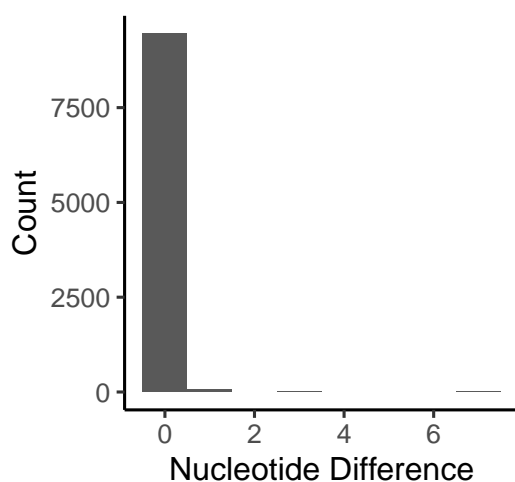
### TRBV30\*ap01

12825 sequences assigned  
12569 (98%) exact matches, in which:  
12213 unique CDR3  
13 unique J



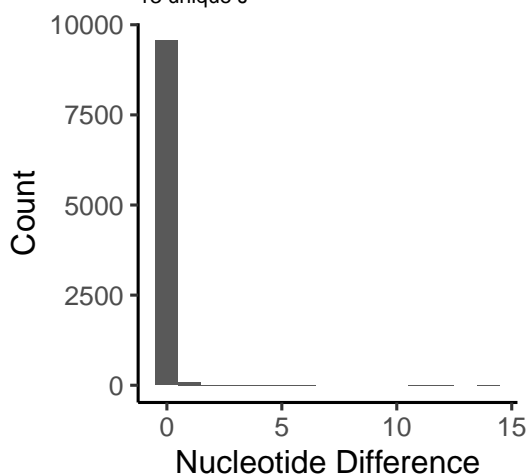
### TRBV18\*ap01

9513 sequences assigned  
9449 (99.3%) exact matches, in which:  
9375 unique CDR3  
13 unique J



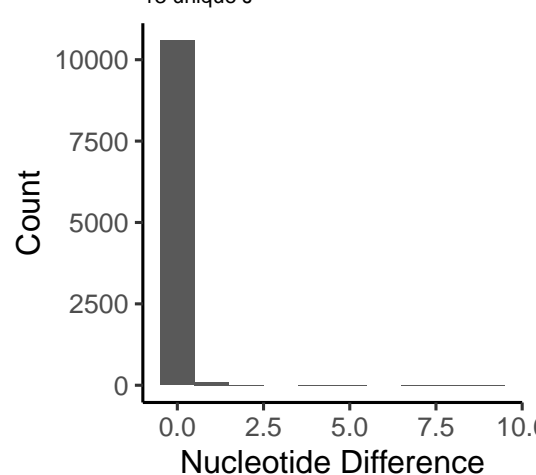
### TRBV27\*ap01

9664 sequences assigned  
9564 (99%) exact matches, in which:  
9451 unique CDR3  
13 unique J



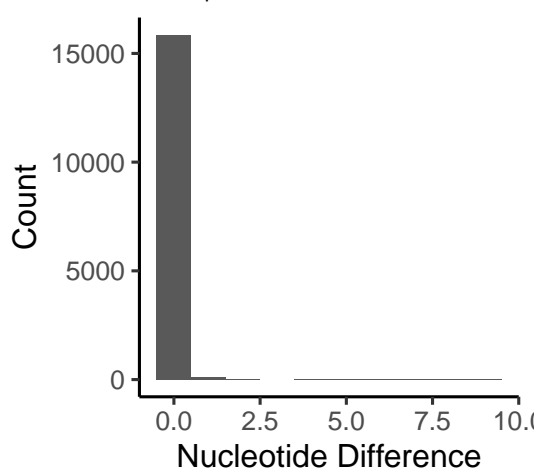
### TRBV9\*ap01

10702 sequences assigned  
10591 (99%) exact matches, in which:  
10479 unique CDR3  
13 unique J



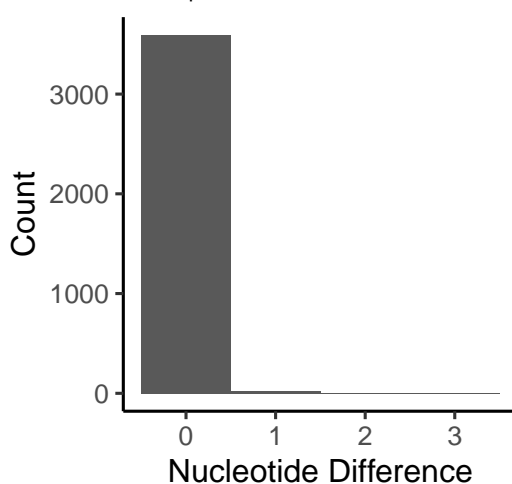
### TRBV19\*ap01

16014 sequences assigned  
15857 (99%) exact matches, in which:  
15708 unique CDR3  
13 unique J



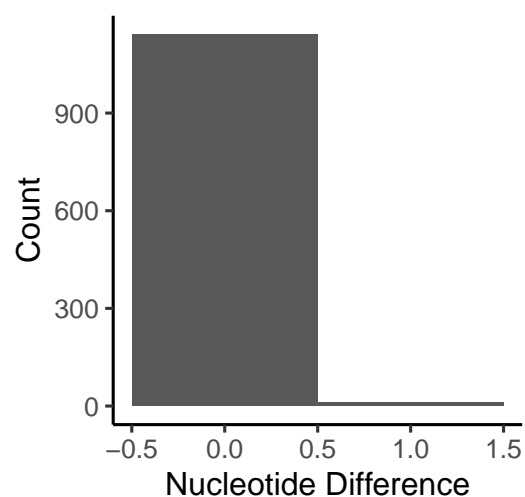
### TRBV28\*ap01

3620 sequences assigned  
3592 (99.2%) exact matches, in which:  
3553 unique CDR3  
13 unique J



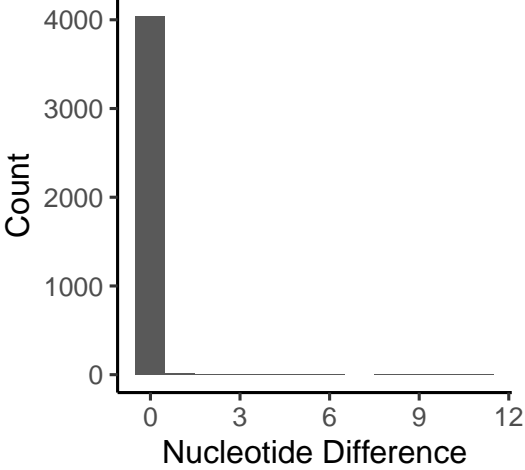
### TRBV11-1\*ap01

1152 sequences assigned  
1142 (99.1%) exact matches, in which:  
1128 unique CDR3  
13 unique J



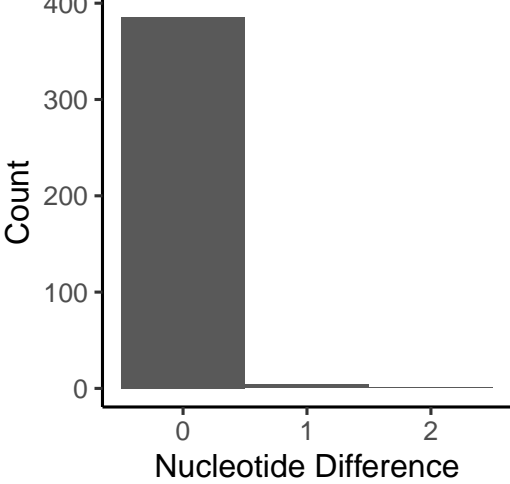
TRBV21-1\*ap01

4081 sequences assigned  
4038 (98.9%) exact matches, in which:  
4017 unique CDR3  
13 unique J



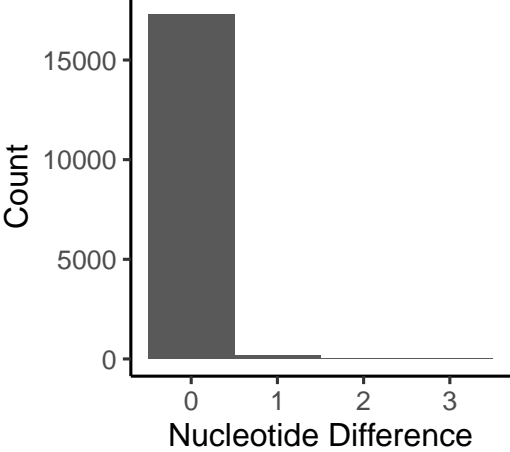
TRBV12-1\*ap01

391 sequences assigned  
386 (98.7%) exact matches, in which:  
380 unique CDR3  
13 unique J



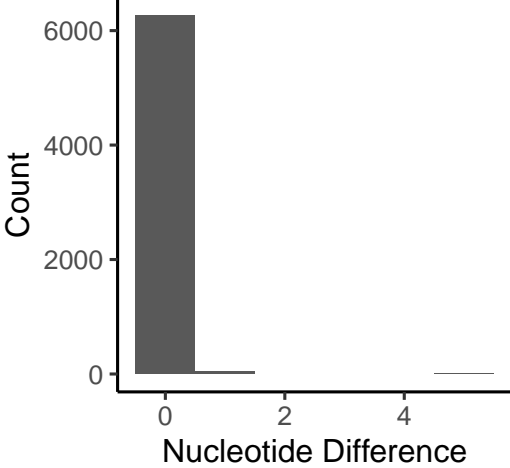
TRBV12-34\*ap01

17478 sequences assigned  
17302 (99%) exact matches, in which:  
17063 unique CDR3  
13 unique J



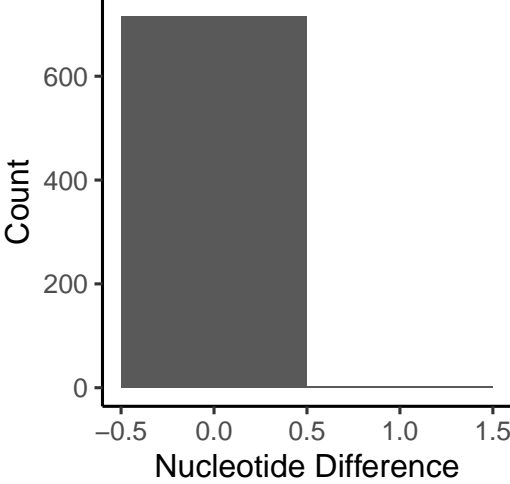
TRBV11-2\*ap01

6305 sequences assigned  
6260 (99.3%) exact matches, in which:  
6181 unique CDR3  
13 unique J



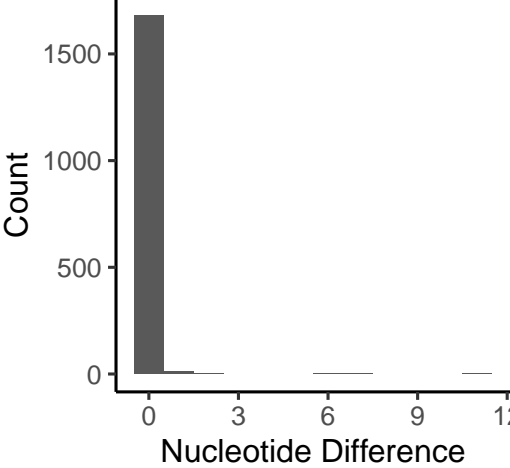
TRBV12-2\*ap01

718 sequences assigned  
716 (99.7%) exact matches, in which:  
707 unique CDR3  
13 unique J



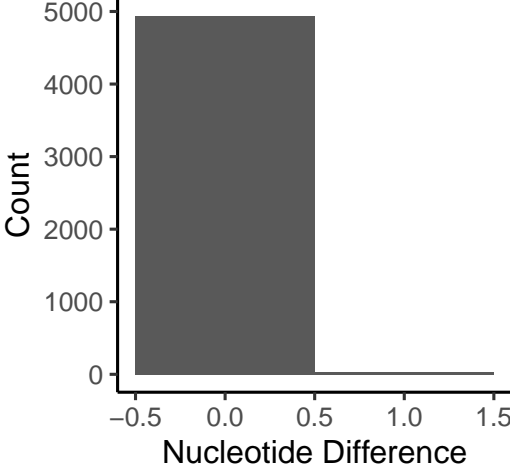
TRBV23-1\*ap01

1699 sequences assigned  
1679 (98.8%) exact matches, in which:  
1674 unique CDR3  
13 unique J



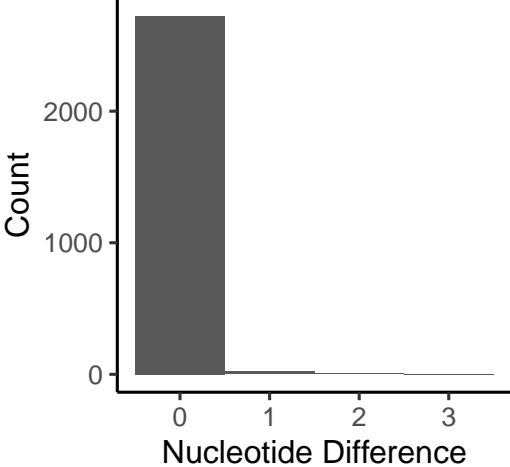
TRBV11-3\*ap01

4971 sequences assigned  
4937 (99.3%) exact matches, in which:  
4880 unique CDR3  
13 unique J



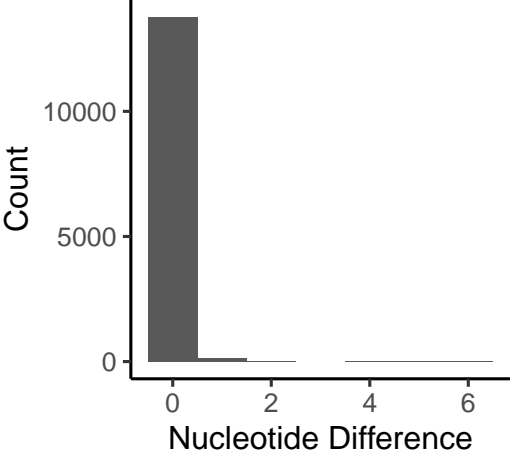
TRBV12-5\*ap01

2752 sequences assigned  
2723 (98.9%) exact matches, in which:  
2682 unique CDR3  
13 unique J



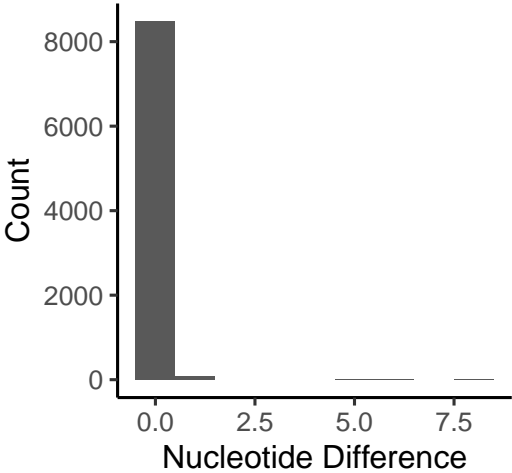
TRBV3-12\*ap01

13941 sequences assigned  
13780 (98.8%) exact matches, in which:  
13579 unique CDR3  
13 unique J



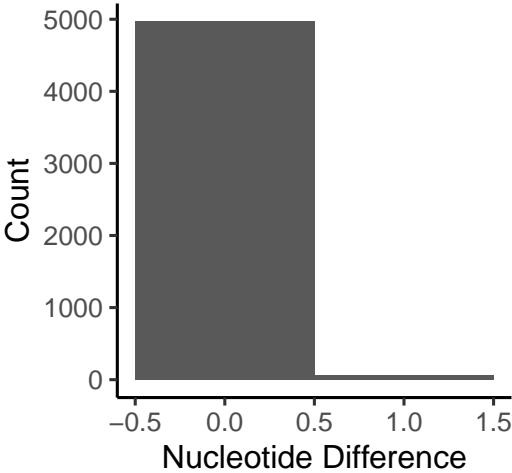
TRBV4-1\*ap01

8573 sequences assigned  
8479 (98.9%) exact matches, in which:  
8298 unique CDR3  
13 unique J



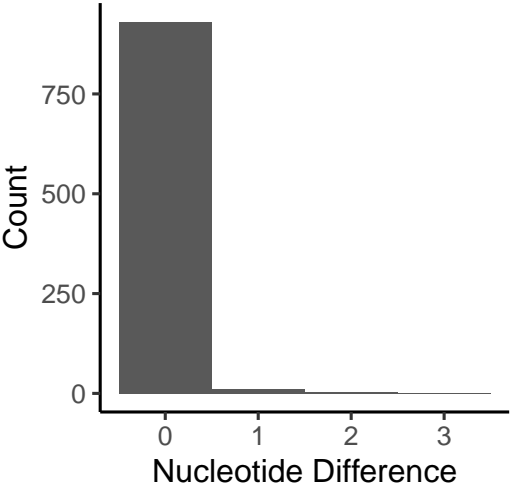
TRBV4-3\*ap01

5030 sequences assigned  
4970 (98.8%) exact matches, in which:  
4897 unique CDR3  
13 unique J



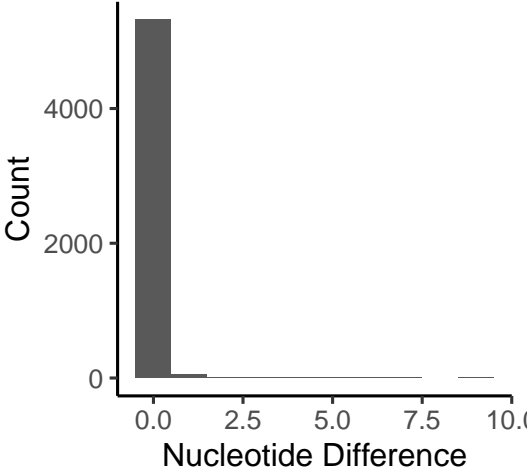
TRBV5-3\*ap01

946 sequences assigned  
931 (98.4%) exact matches, in which:  
913 unique CDR3  
13 unique J



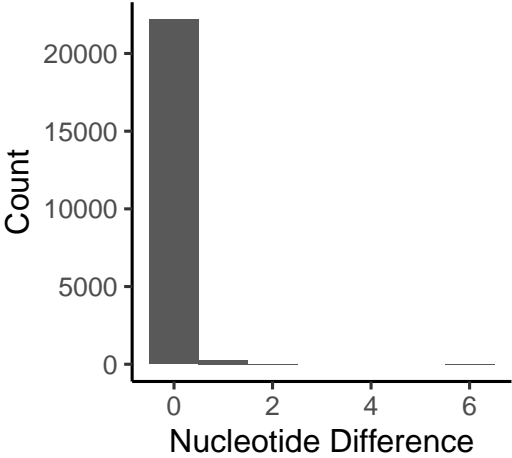
TRBV24-1\*ap01

5384 sequences assigned  
5318 (98.8%) exact matches, in which:  
5249 unique CDR3  
13 unique J



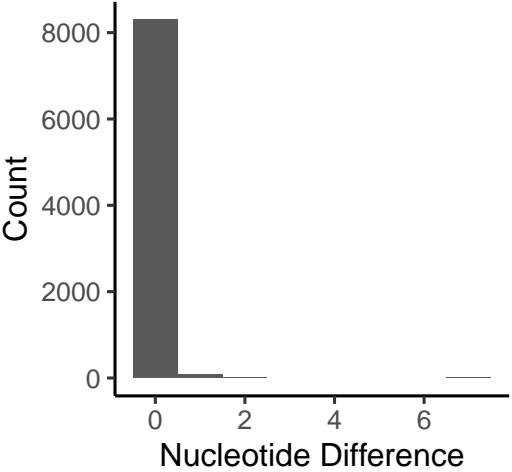
TRBV5-1\*ap01

22458 sequences assigned  
22189 (98.8%) exact matches, in which:  
21690 unique CDR3  
13 unique J



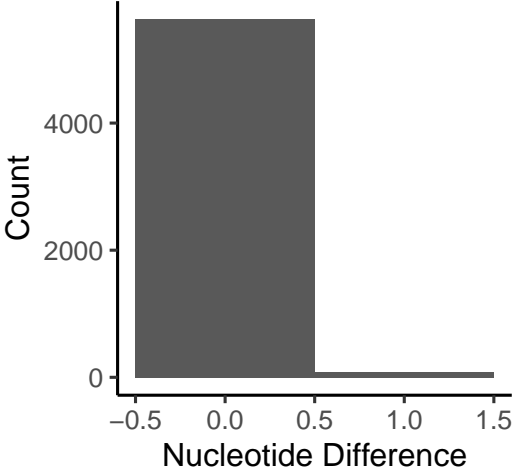
TRBV5-4\*ap01

8385 sequences assigned  
8299 (99%) exact matches, in which:  
8162 unique CDR3  
13 unique J



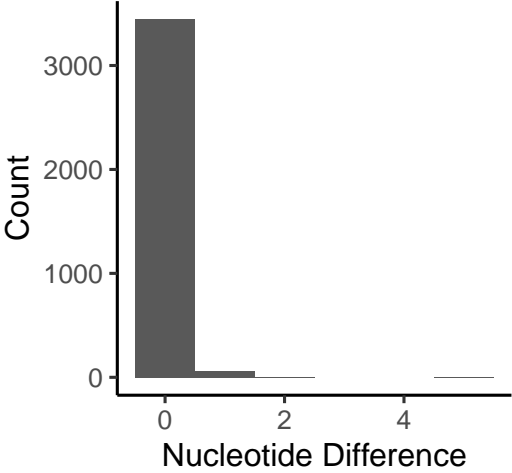
TRBV4-2\*ap01

5722 sequences assigned  
5637 (98.5%) exact matches, in which:  
5540 unique CDR3  
13 unique J



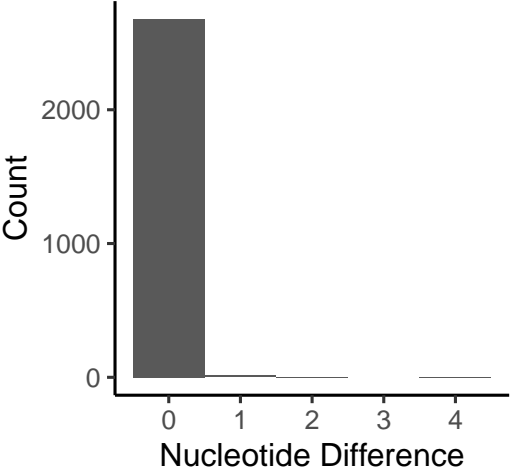
TRBV25-1\*ap01

3514 sequences assigned  
3447 (98.1%) exact matches, in which:  
3373 unique CDR3  
13 unique J



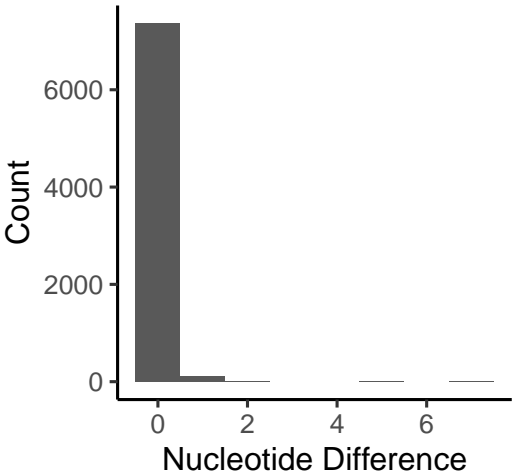
TRBV5-5\*ap01

2693 sequences assigned  
2678 (99.4%) exact matches, in which:  
2651 unique CDR3  
13 unique J



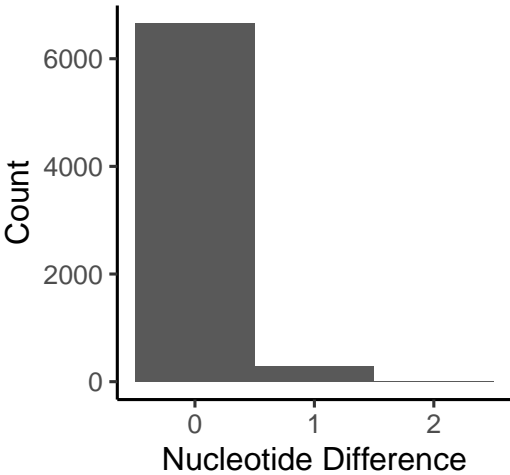
TRBV5-6\*ap01

7473 sequences assigned  
7364 (98.5%) exact matches, in which:  
7120 unique CDR3  
13 unique J



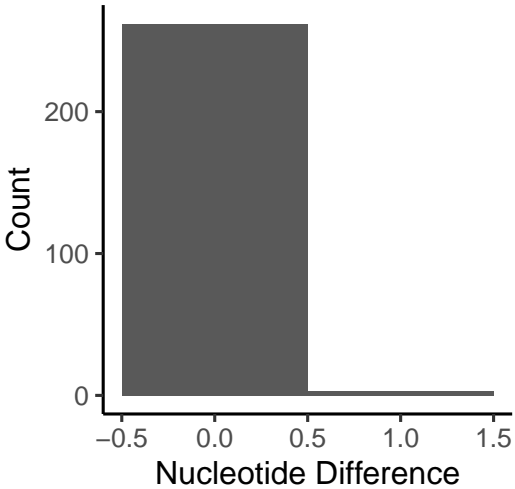
TRBV6-1\*ap01

6944 sequences assigned  
6656 (95.9%) exact matches, in which:  
6488 unique CDR3  
13 unique J



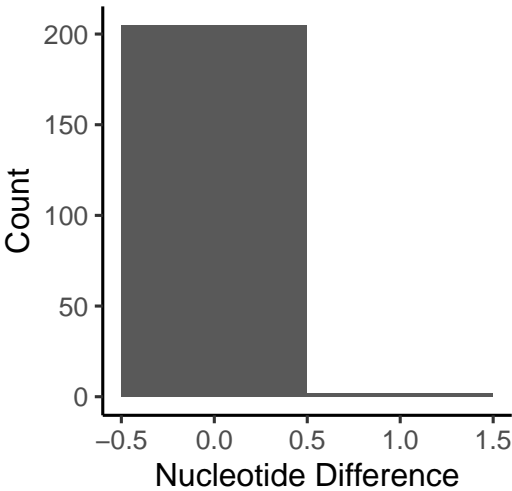
TRBV6-8\*ap01

265 sequences assigned  
262 (98.9%) exact matches, in which:  
250 unique CDR3  
13 unique J



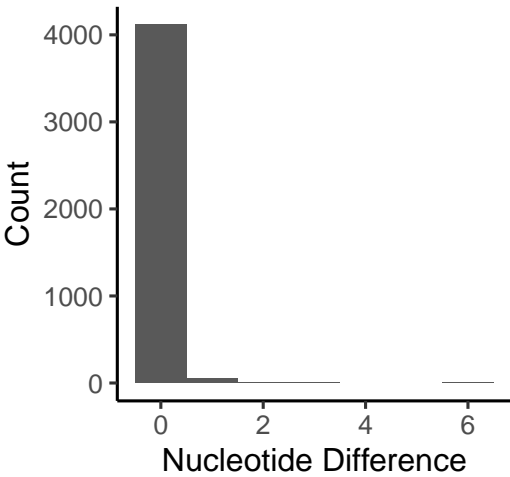
TRBV5-7\*ap01

207 sequences assigned  
205 (99%) exact matches, in which:  
193 unique CDR3  
13 unique J



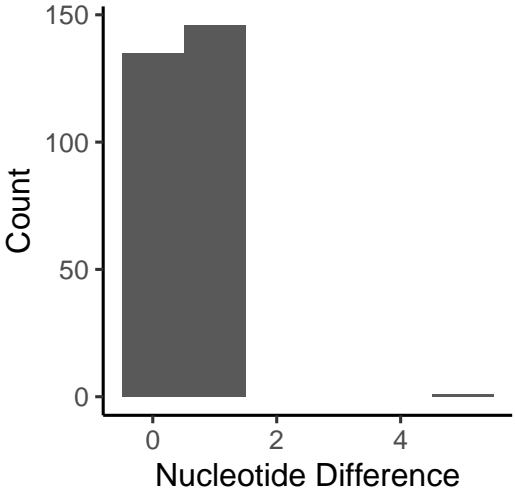
TRBV6-4\*ap01

4180 sequences assigned  
4116 (98.5%) exact matches, in which:  
4064 unique CDR3  
14 unique J



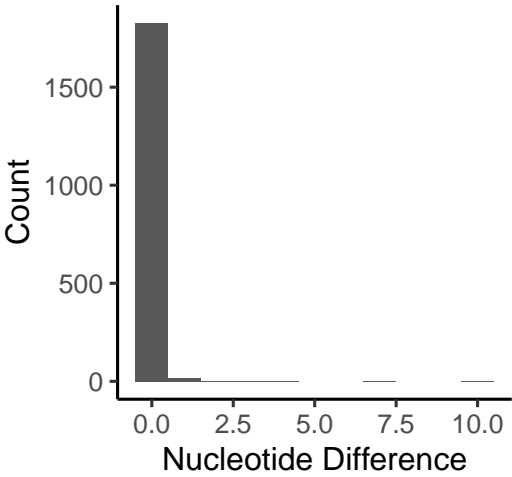
TRBV6-9\*ap01

282 sequences assigned  
135 (47.9%) exact matches, in which:  
132 unique CDR3  
13 unique J



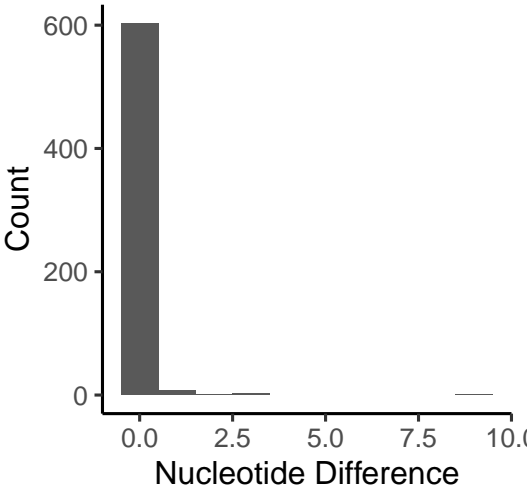
TRBV5-8\*ap01

1848 sequences assigned  
1827 (98.9%) exact matches, in which:  
1806 unique CDR3  
13 unique J



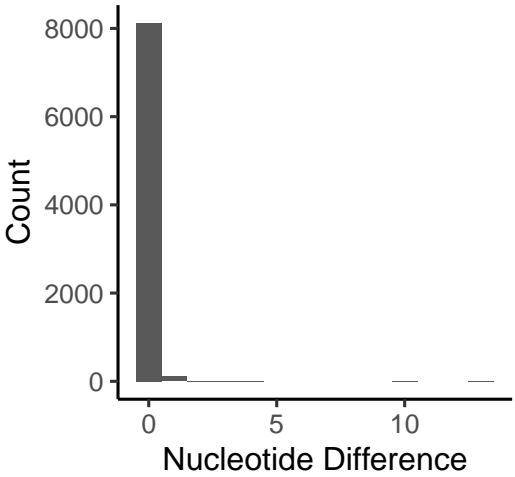
TRBV6-7\*ap01

615 sequences assigned  
603 (98%) exact matches, in which:  
581 unique CDR3  
13 unique J



TRBV6-23\*ap01

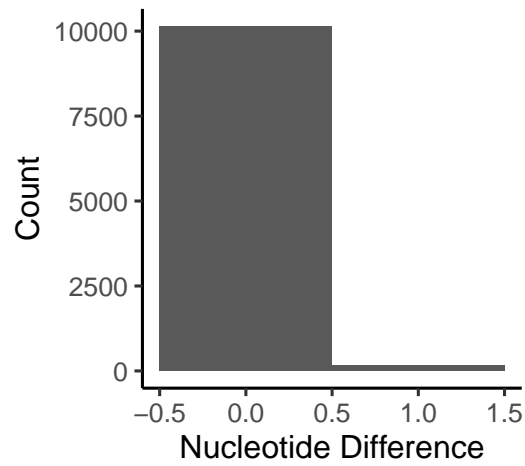
8238 sequences assigned  
8122 (98.6%) exact matches, in which:  
7919 unique CDR3  
13 unique J





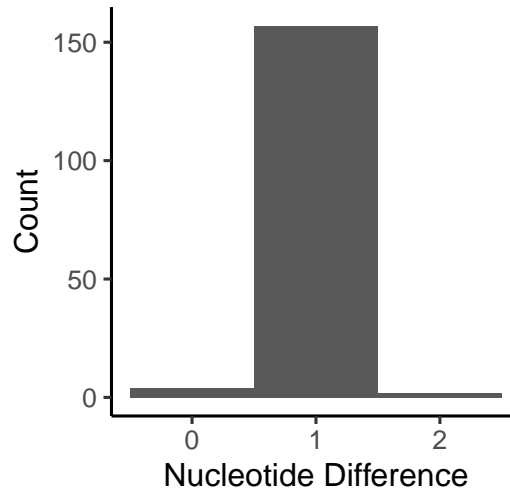
### TRBV6-56\*ap01

10302 sequences assigned  
10146 (98.5%) exact matches, in which:  
9836 unique CDR3  
13 unique J



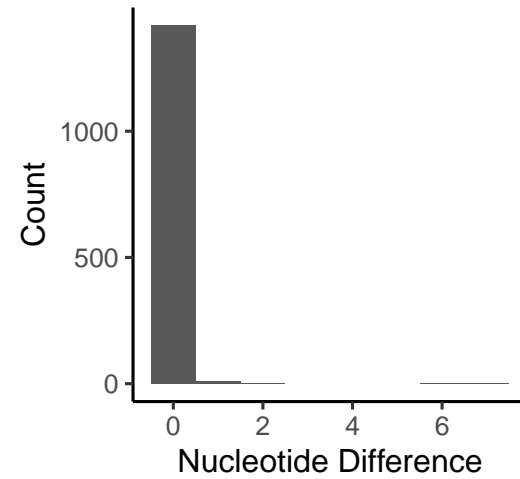
### TRBV7-1\*ap01\_T296C\_()

163 sequences assigned  
4 (2.5%) exact matches, in which:  
4 unique CDR3  
4 unique J



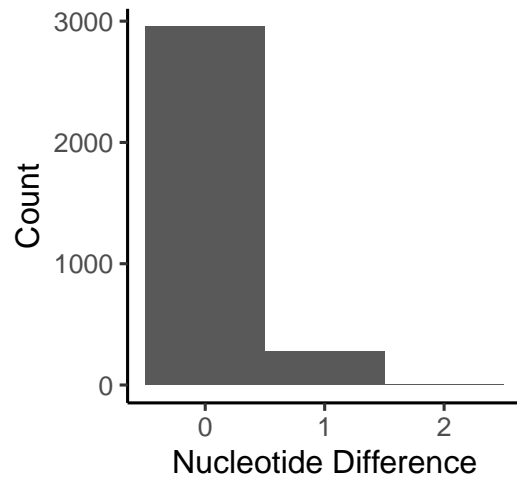
### TRBV7-3\*ap03

1431 sequences assigned  
1419 (99.2%) exact matches, in which:  
1401 unique CDR3  
13 unique J



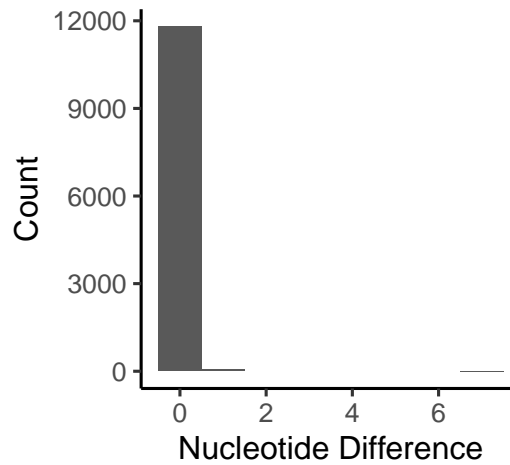
### TRBV6-56\*ap02

3236 sequences assigned  
2954 (91.3%) exact matches, in which:  
2879 unique CDR3  
13 unique J



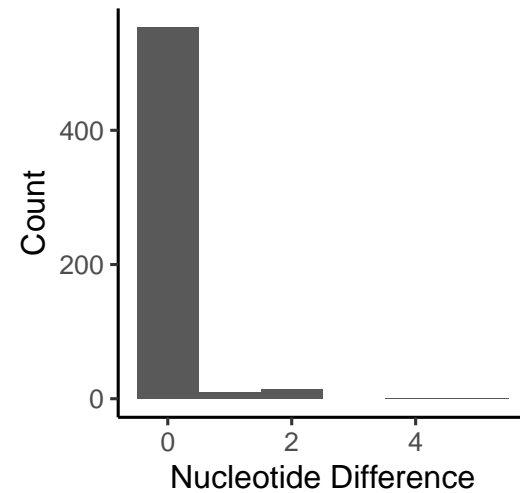
### TRBV7-2\*ap01

11874 sequences assigned  
11806 (99.4%) exact matches, in which:  
11651 unique CDR3  
13 unique J



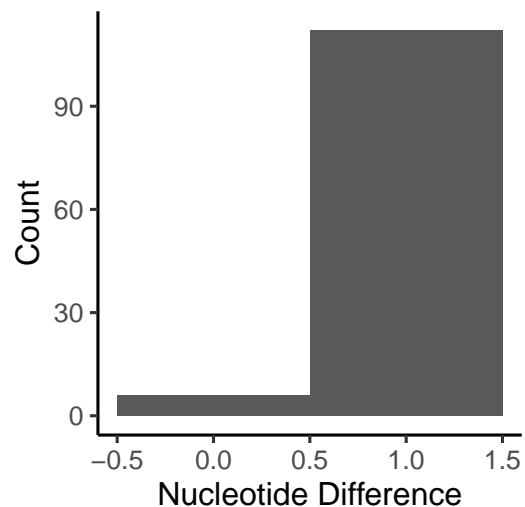
### TRBV7-4\*ap01

579 sequences assigned  
554 (95.7%) exact matches, in which:  
545 unique CDR3  
13 unique J



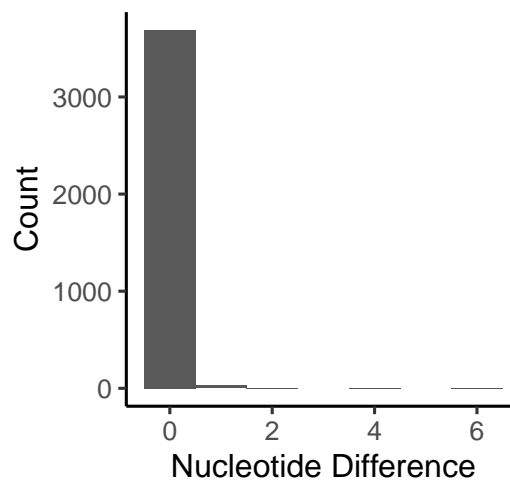
### TRBV7-1\*ap01\_T296C

118 sequences assigned  
6 (5.1%) exact matches, in which:  
6 unique CDR3  
3 unique J



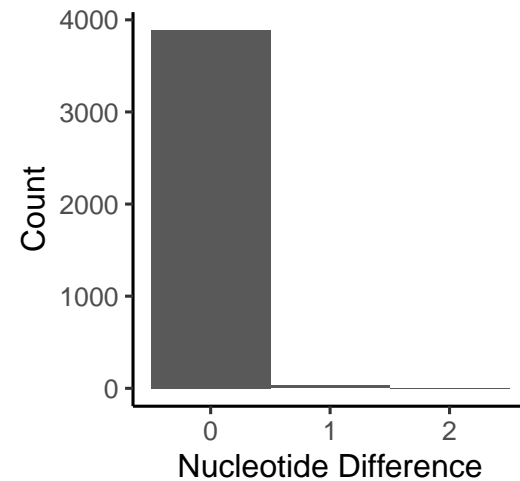
### TRBV7-3\*ap01

3722 sequences assigned  
3689 (99.1%) exact matches, in which:  
3645 unique CDR3  
13 unique J



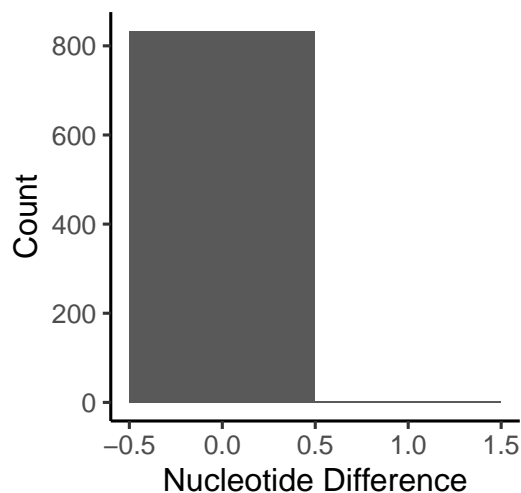
### TRBV7-6\*ap01

3921 sequences assigned  
3889 (99.2%) exact matches, in which:  
3818 unique CDR3  
13 unique J



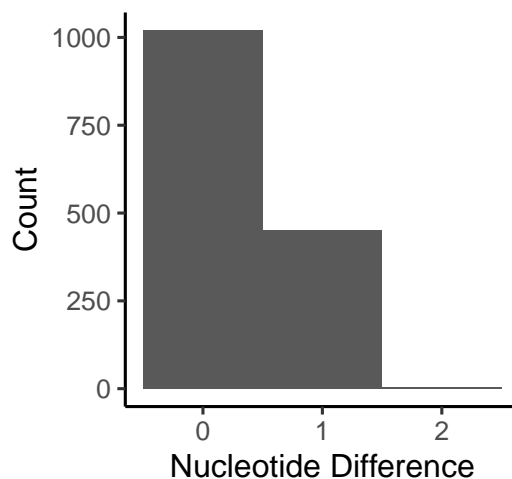
### TRBV7-7\*ap01

838 sequences assigned  
834 (99.5%) exact matches, in which:  
815 unique CDR3  
13 unique J



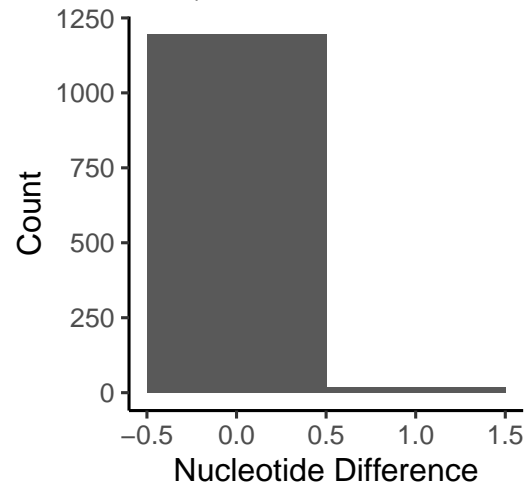
### TRBV7-8\*ap03

1475 sequences assigned  
1020 (69.2%) exact matches, in which:  
1011 unique CDR3  
13 unique J



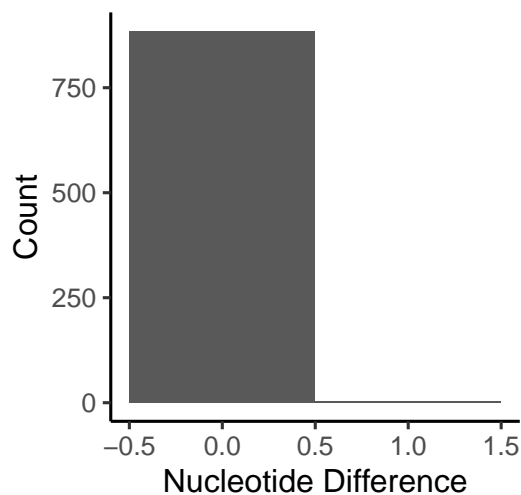
### TRBV29-1\*ap02

1214 sequences assigned  
1195 (98.4%) exact matches, in which:  
1156 unique CDR3  
13 unique J



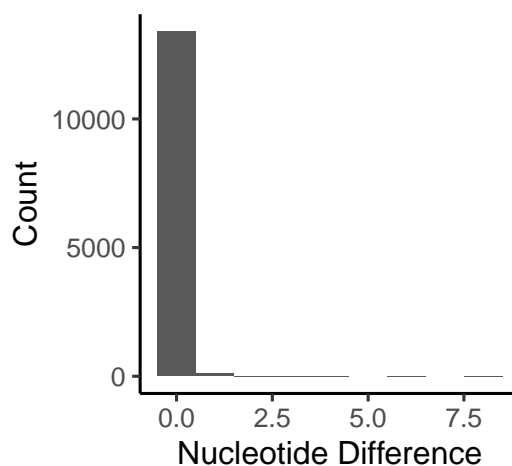
### TRBV7-7\*ap01\_C315T

888 sequences assigned  
885 (99.7%) exact matches, in which:  
873 unique CDR3  
13 unique J



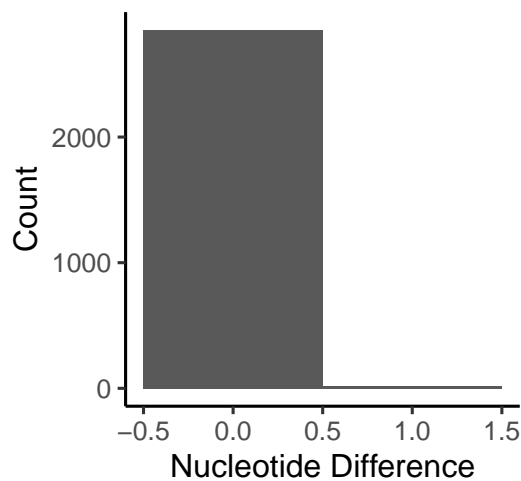
### TRBV7-9\*ap01

13508 sequences assigned  
13399 (99.2%) exact matches, in which:  
13161 unique CDR3  
13 unique J



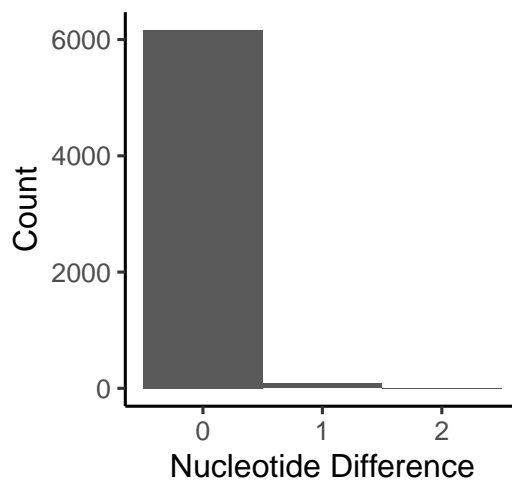
### TRBV7-8\*ap01

2872 sequences assigned  
2852 (99.3%) exact matches, in which:  
2803 unique CDR3  
13 unique J

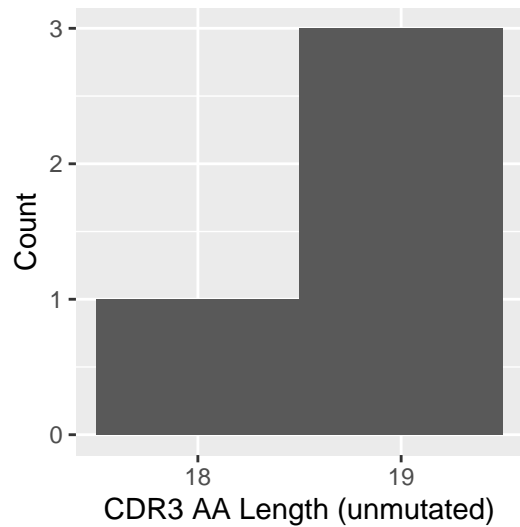


### TRBV29-1\*ap01

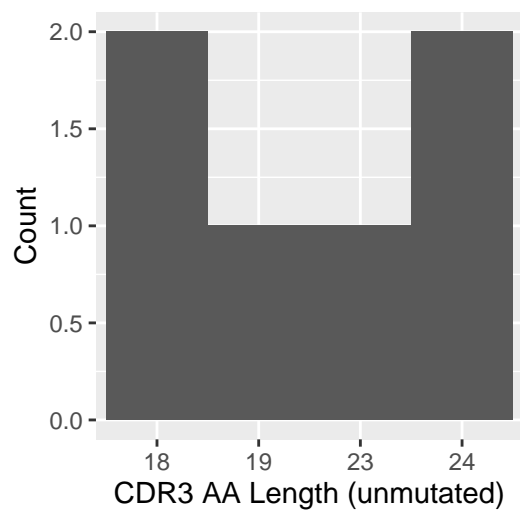
6251 sequences assigned  
6164 (98.6%) exact matches, in which:  
6013 unique CDR3  
13 unique J



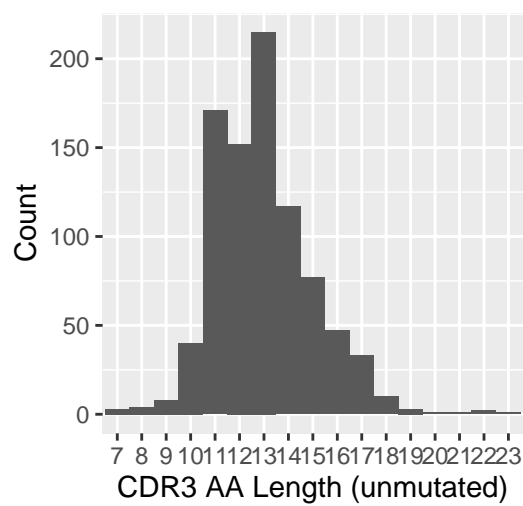
TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]