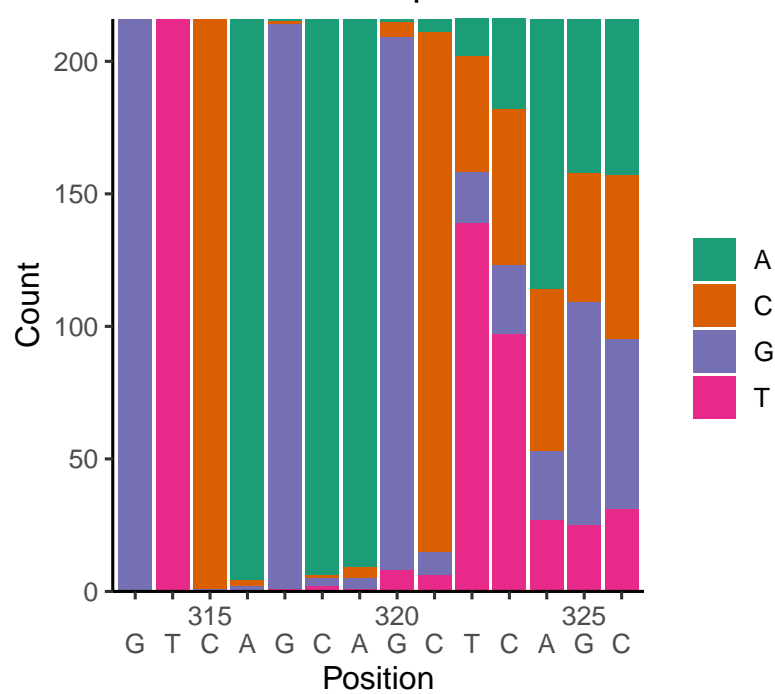
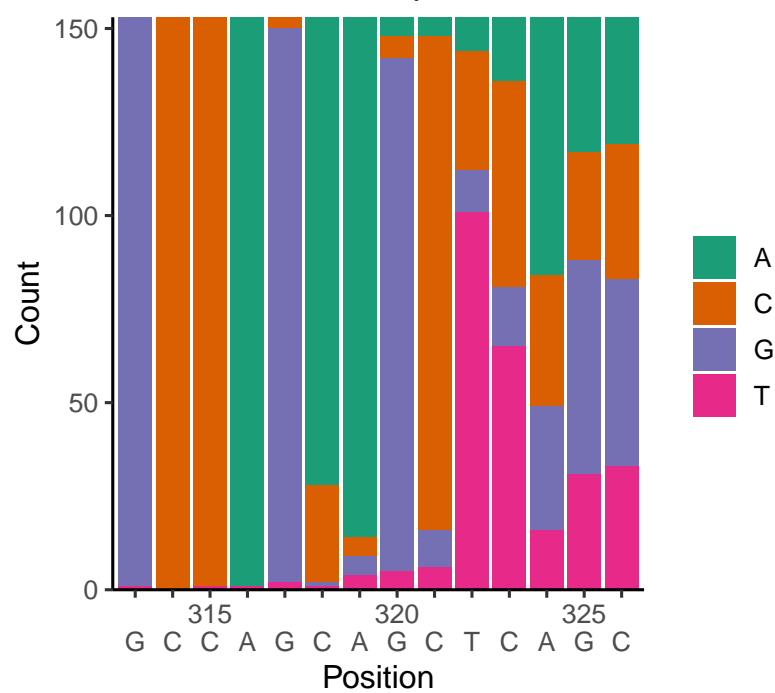


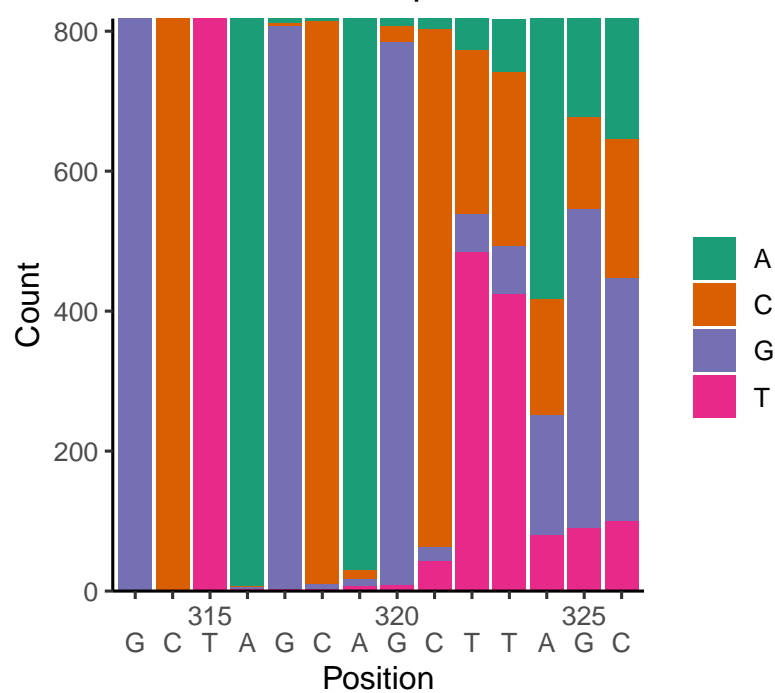
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



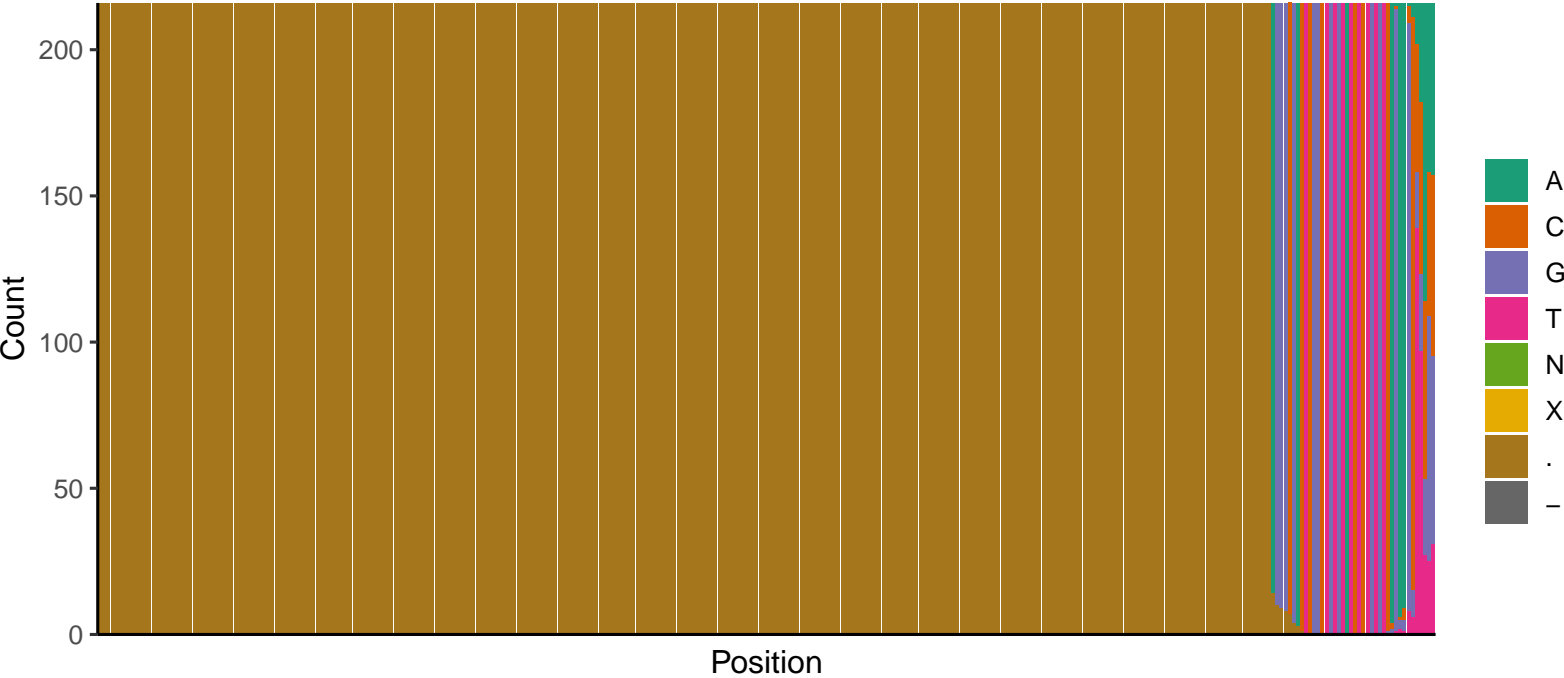
Gene TRBV7-1\*ap01\_G291C\_T296C



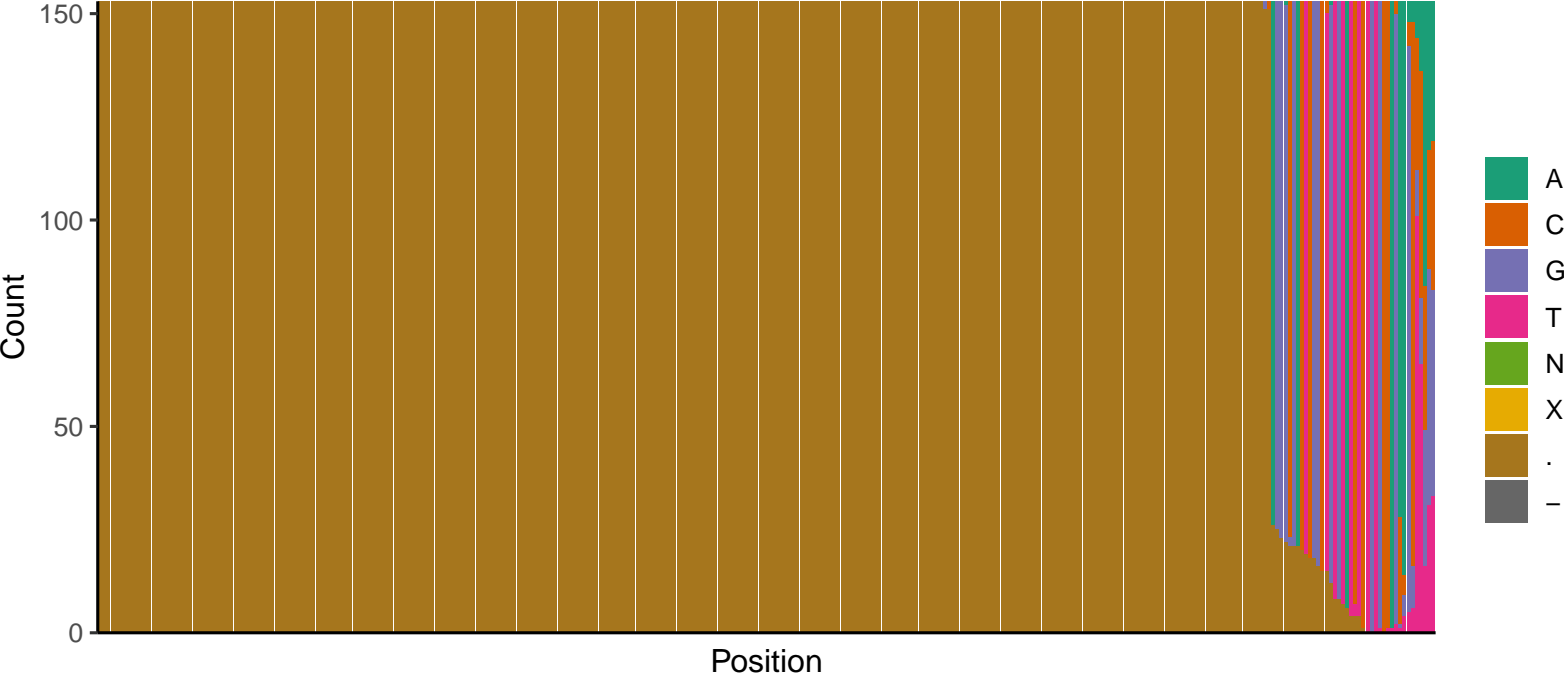
Gene TRBV7-7\*ap01\_C315T



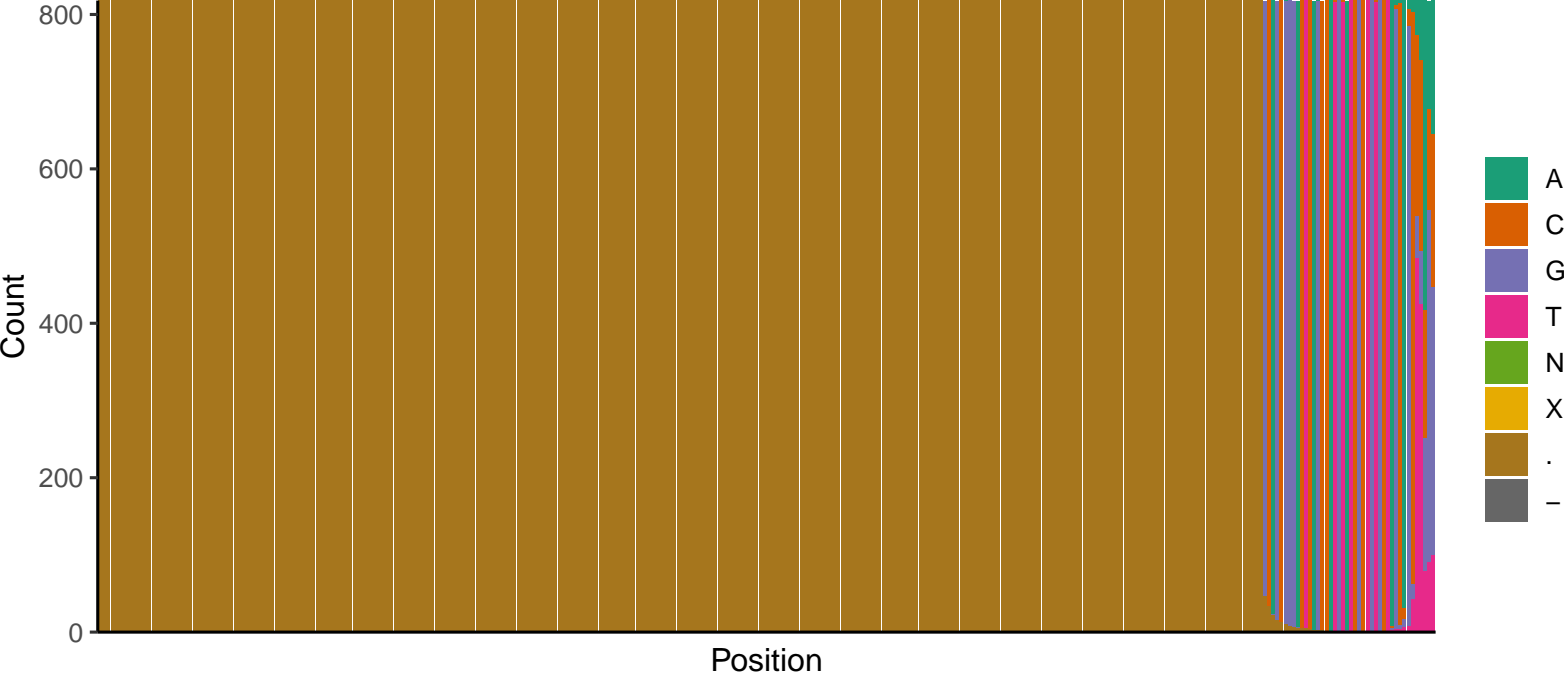
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



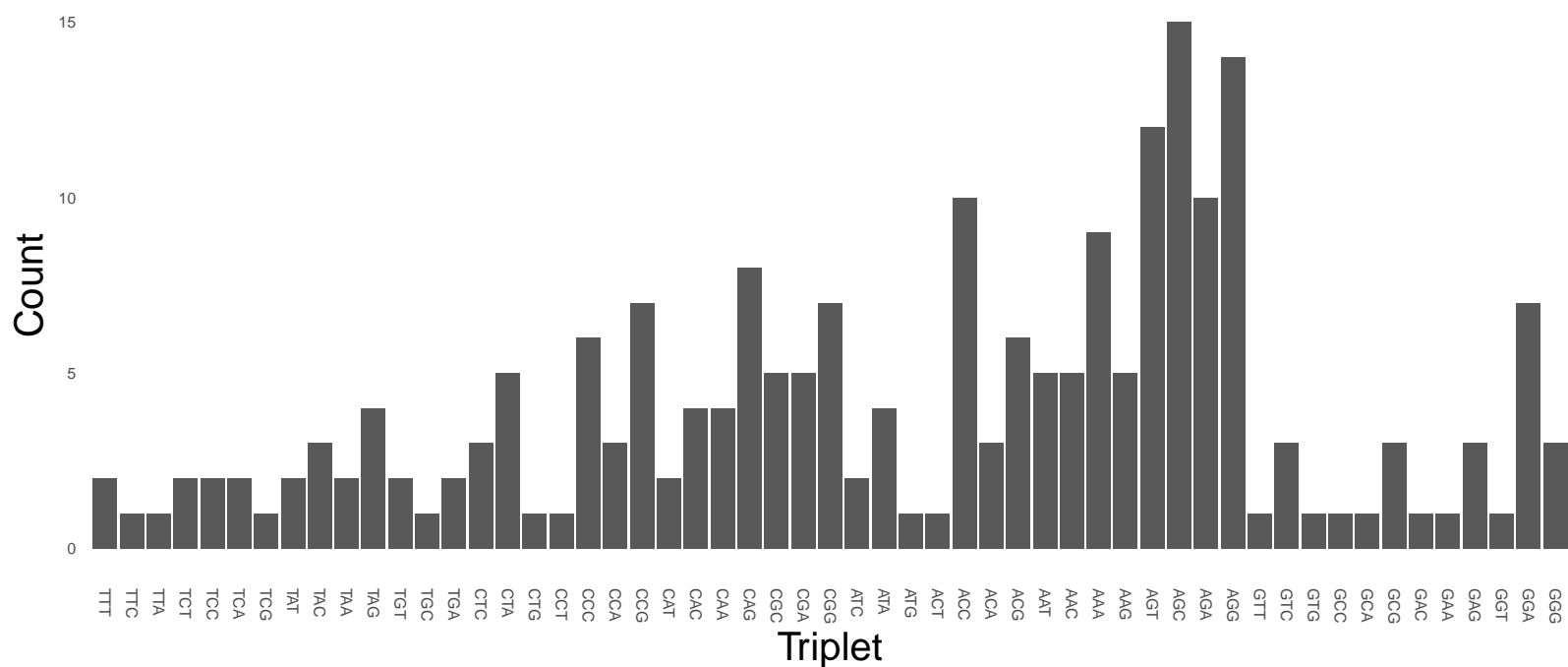
Gene TRBV7-1\*ap01\_G291C\_T296C



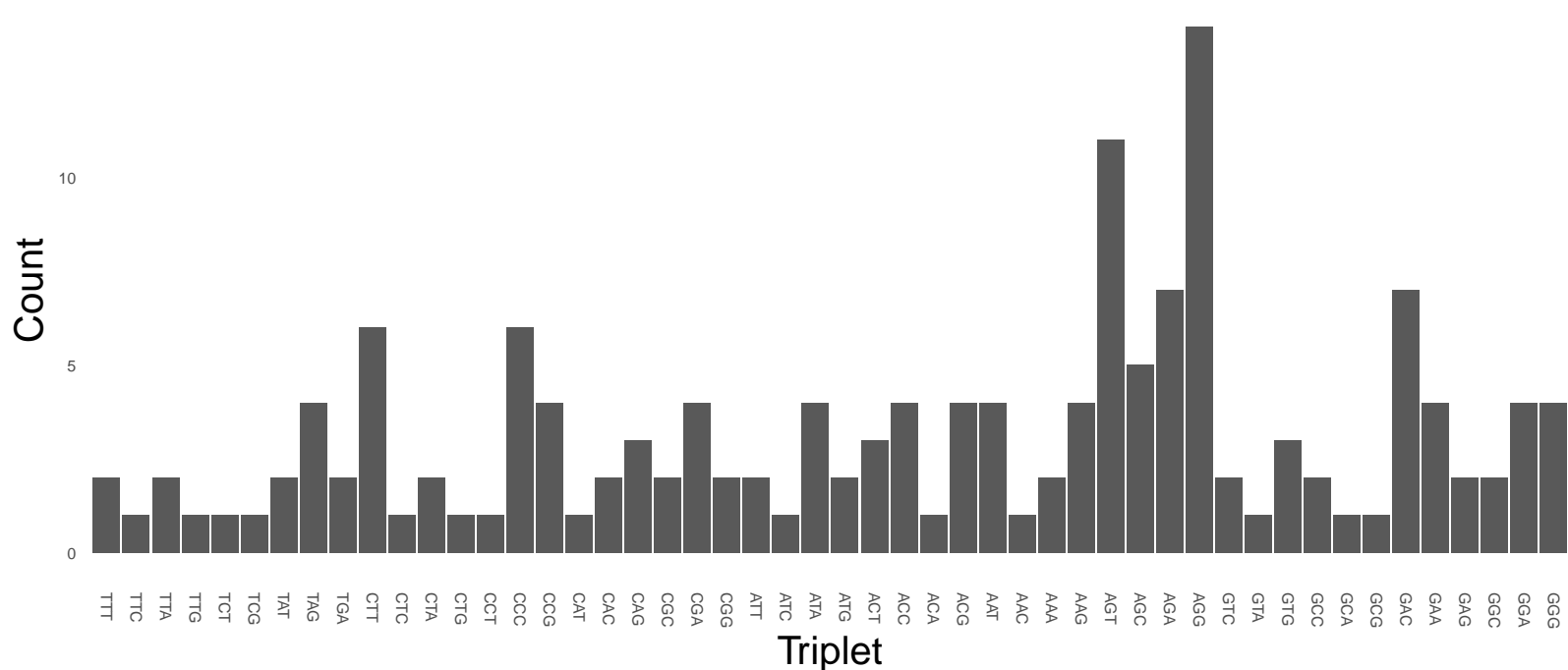
Gene TRBV7-7\*ap01\_C315T



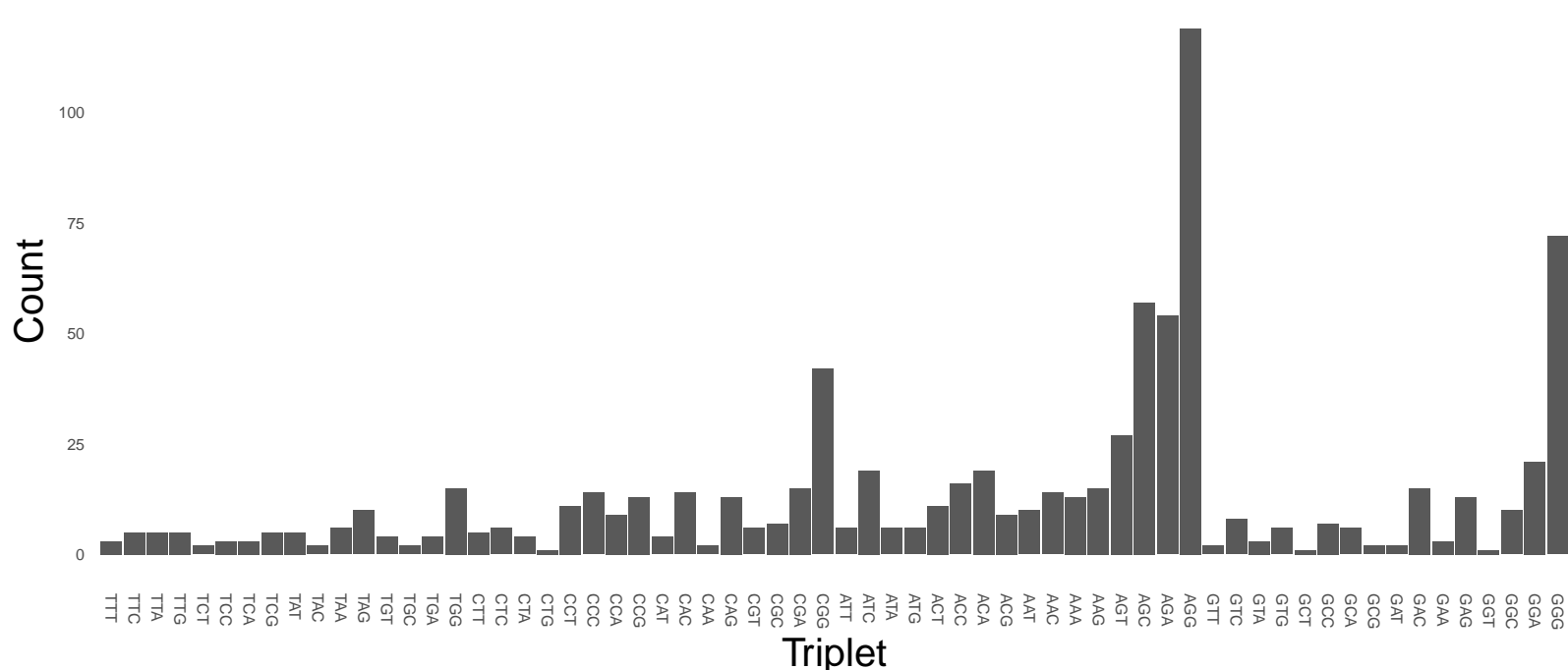
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

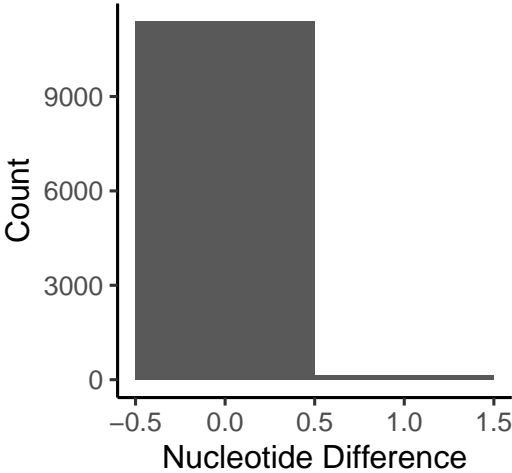


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



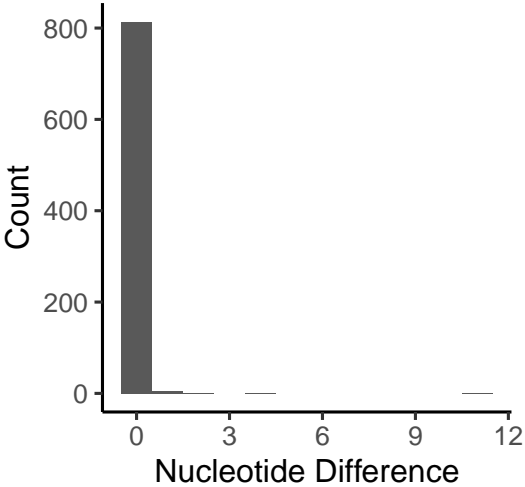
TRBV20-1\*ap01

11545 sequences assigned  
11387 (98.6%) exact matches, in which:  
11185 unique CDR3  
13 unique J



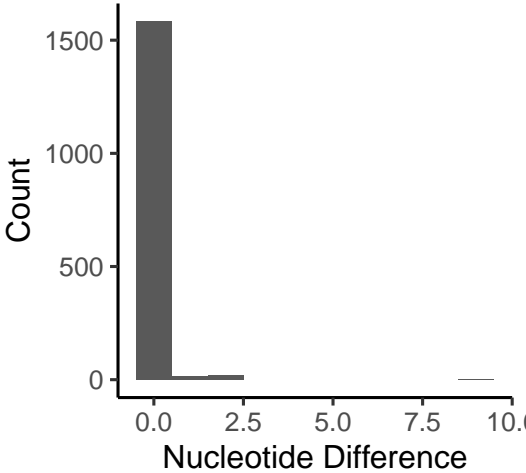
TRBV10-2\*ap01

823 sequences assigned  
814 (98.9%) exact matches, in which:  
790 unique CDR3  
13 unique J



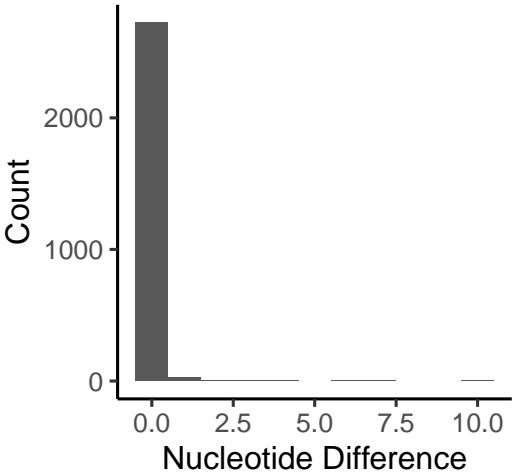
TRBV13\*ap01

1620 sequences assigned  
1583 (97.7%) exact matches, in which:  
1535 unique CDR3  
13 unique J



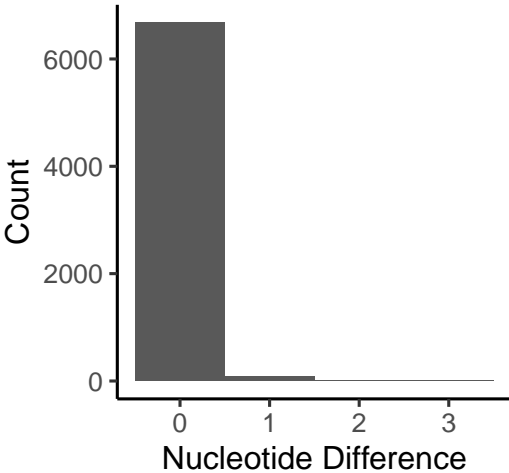
TRBV10-1\*ap01

2763 sequences assigned  
2723 (98.6%) exact matches, in which:  
2640 unique CDR3  
13 unique J



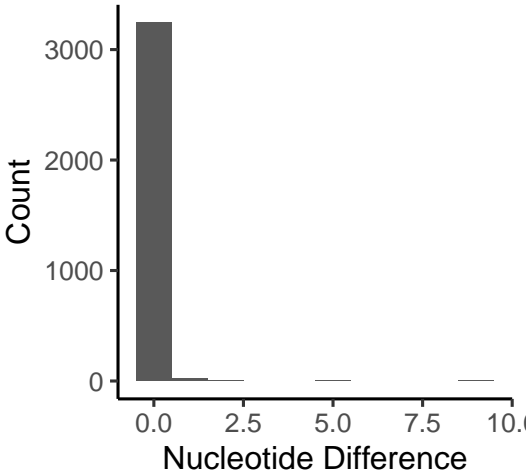
TRBV10-3\*ap01

6771 sequences assigned  
6675 (98.6%) exact matches, in which:  
6550 unique CDR3  
13 unique J



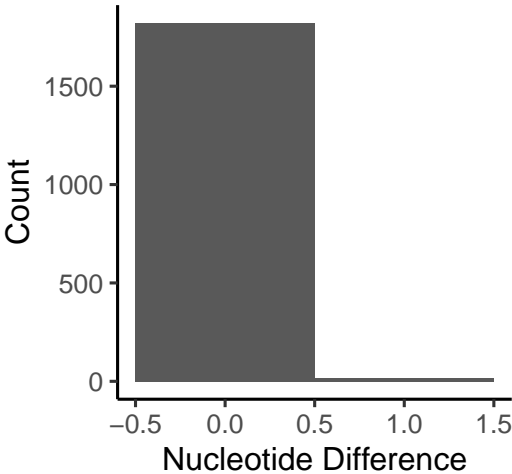
TRBV14\*ap01

3273 sequences assigned  
3243 (99.1%) exact matches, in which:  
3187 unique CDR3  
13 unique J



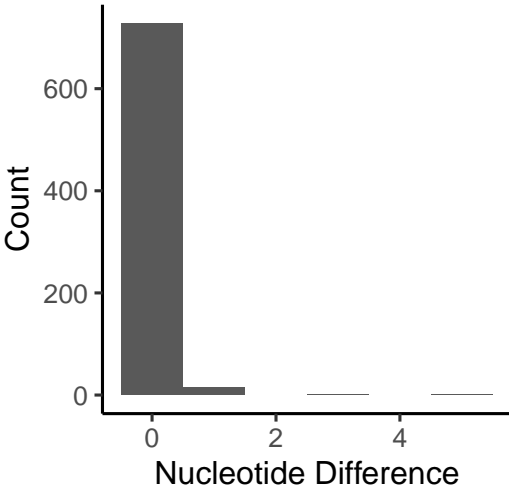
TRBV20-1\*ap02

1839 sequences assigned  
1821 (99%) exact matches, in which:  
1797 unique CDR3  
13 unique J



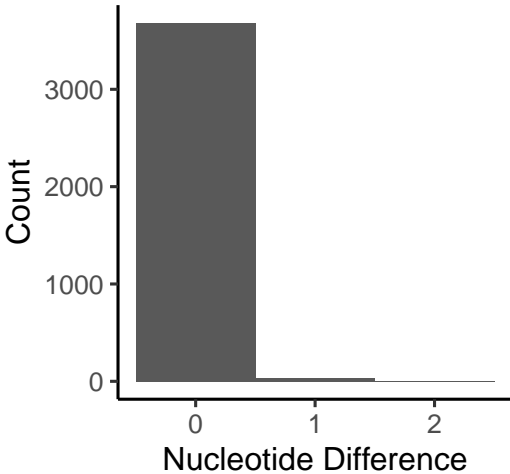
TRBV1\*ap01

744 sequences assigned  
728 (97.8%) exact matches, in which:  
709 unique CDR3  
13 unique J



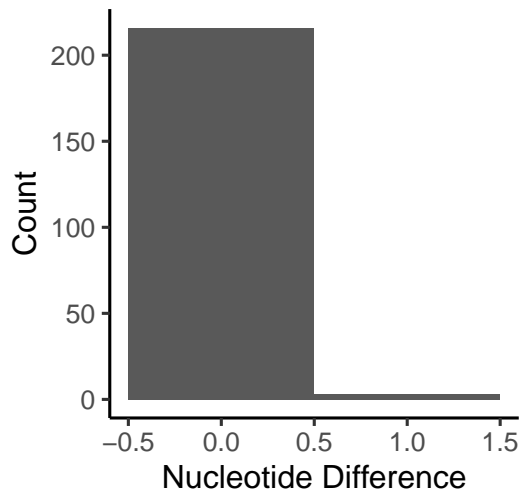
TRBV15\*ap02

3717 sequences assigned  
3681 (99%) exact matches, in which:  
3607 unique CDR3  
13 unique J



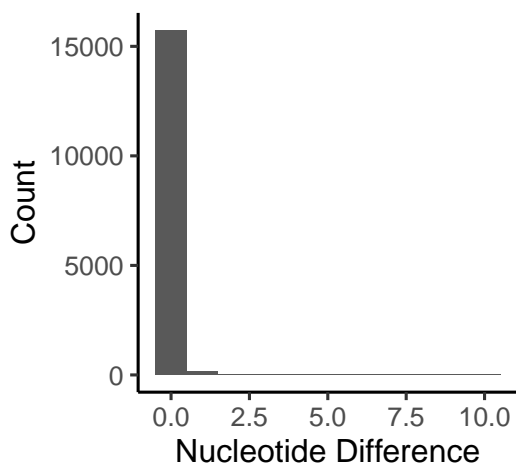
### TRBV16\*ap01

219 sequences assigned  
216 (98.6%) exact matches, in which:  
215 unique CDR3  
13 unique J



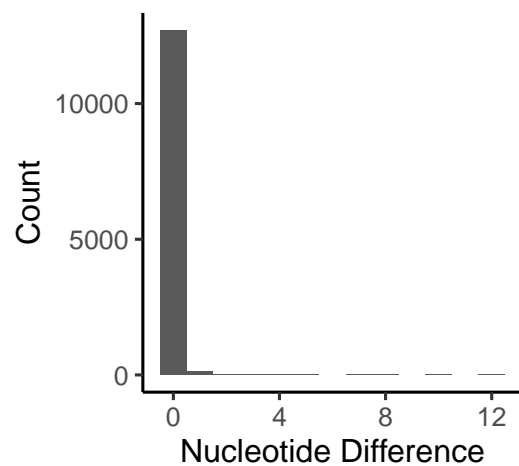
### TRBV19\*ap01

15917 sequences assigned  
15739 (98.9%) exact matches, in which:  
15587 unique CDR3  
13 unique J



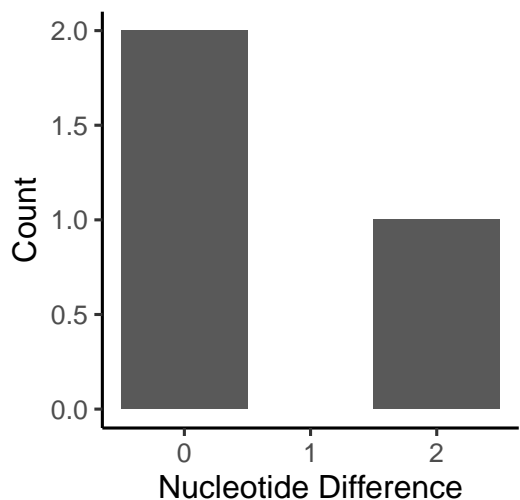
### TRBV27\*ap01

12867 sequences assigned  
12706 (98.7%) exact matches, in which:  
12373 unique CDR3  
13 unique J



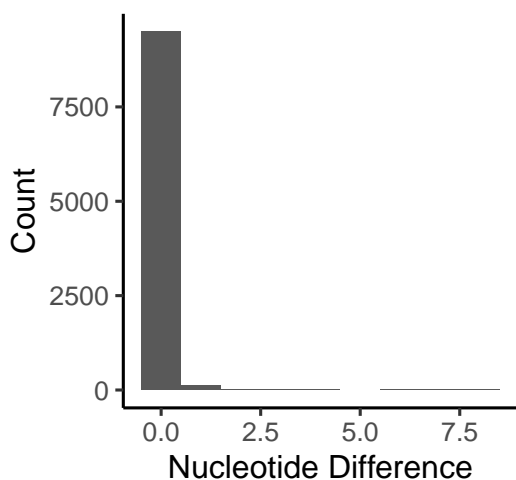
### TRBV17\*ap01

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



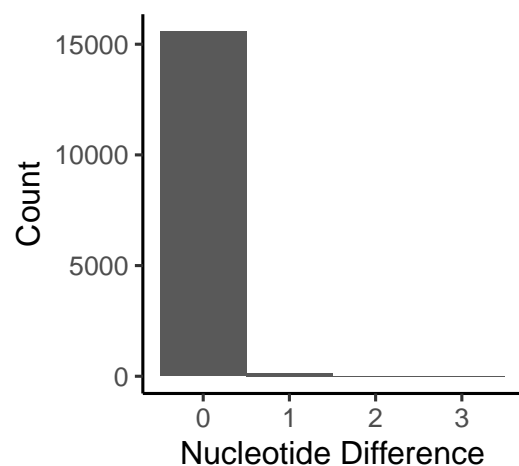
### TRBV2\*ap01

9621 sequences assigned  
9492 (98.7%) exact matches, in which:  
9259 unique CDR3  
13 unique J



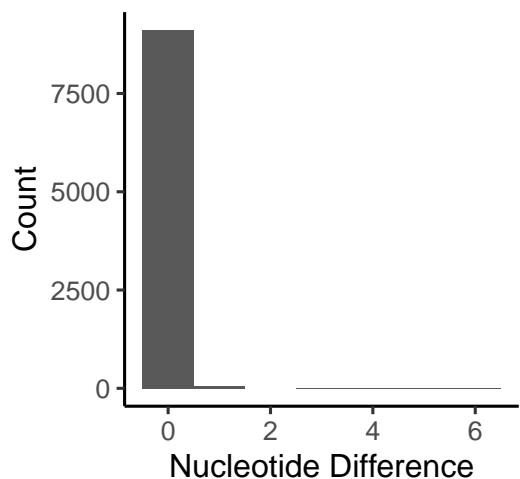
### TRBV28\*ap01

15719 sequences assigned  
15576 (99.1%) exact matches, in which:  
15288 unique CDR3  
13 unique J



### TRBV18\*ap01

9184 sequences assigned  
9114 (99.2%) exact matches, in which:  
9005 unique CDR3  
13 unique J



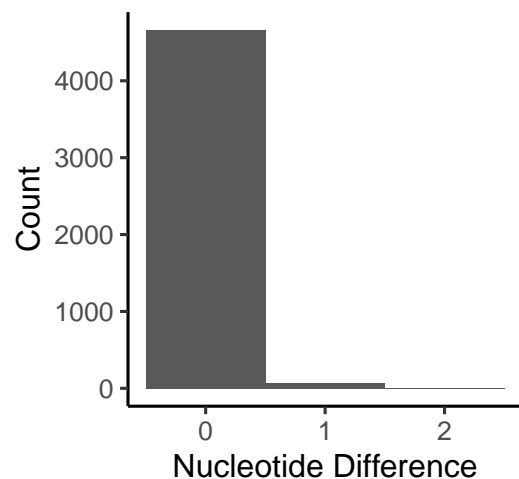
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



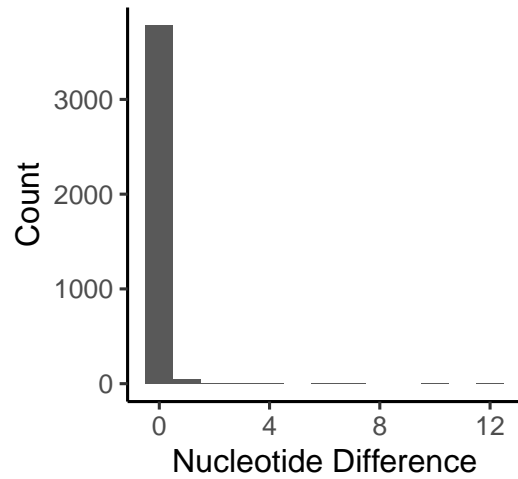
### TRBV30\*ap01

4731 sequences assigned  
4660 (98.5%) exact matches, in which:  
4595 unique CDR3  
13 unique J



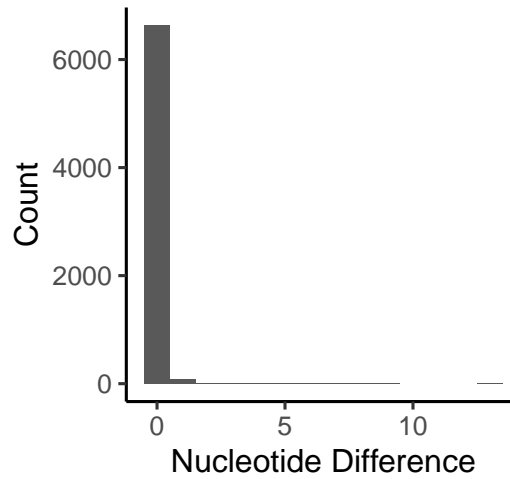
### TRBV30\*ap02

3846 sequences assigned  
3781 (98.3%) exact matches, in which:  
3707 unique CDR3  
13 unique J



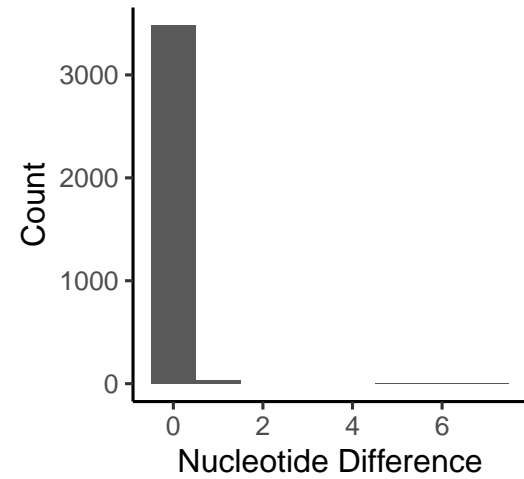
### TRBV21-1\*ap01

6749 sequences assigned  
6632 (98.3%) exact matches, in which:  
6531 unique CDR3  
14 unique J



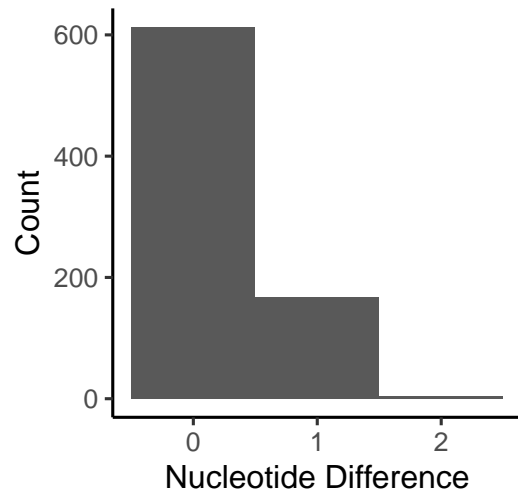
### TRBV11-3\*ap01

3520 sequences assigned  
3481 (98.9%) exact matches, in which:  
3421 unique CDR3  
13 unique J



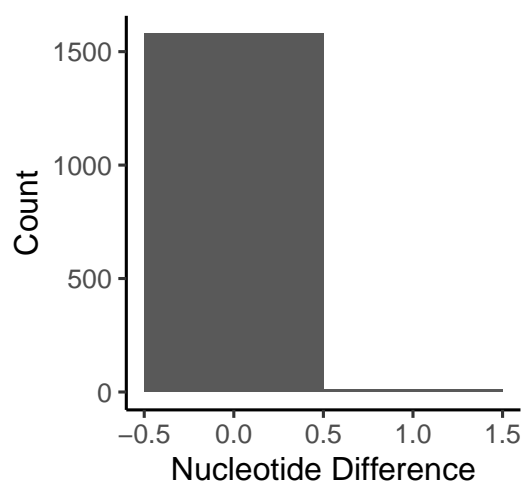
### TRBV30\*ap03

784 sequences assigned  
613 (78.2%) exact matches, in which:  
598 unique CDR3  
13 unique J



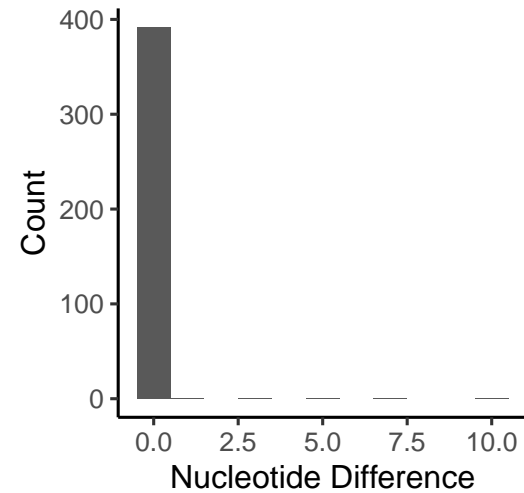
### TRBV11-1\*ap01

1591 sequences assigned  
1579 (99.2%) exact matches, in which:  
1538 unique CDR3  
13 unique J



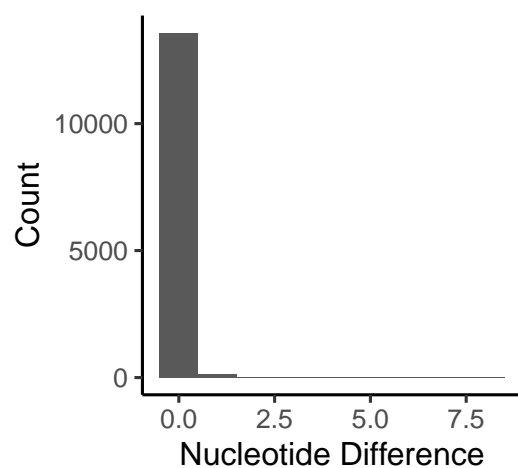
### TRBV12-1\*ap01

397 sequences assigned  
392 (98.7%) exact matches, in which:  
387 unique CDR3  
13 unique J



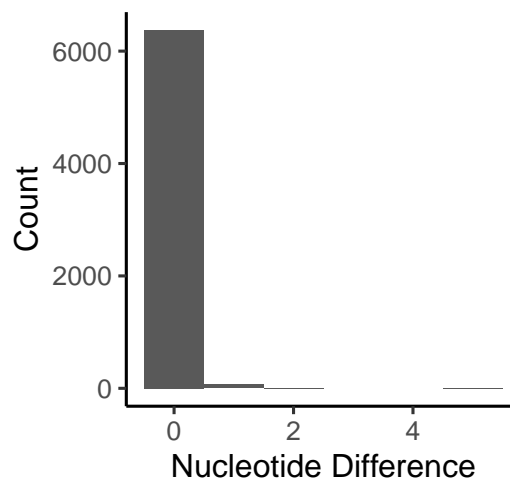
### TRBV9\*ap01

13728 sequences assigned  
13577 (98.9%) exact matches, in which:  
13358 unique CDR3  
13 unique J



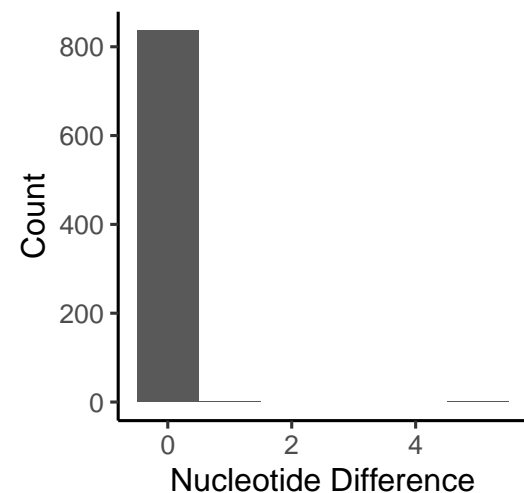
### TRBV11-2\*ap01

6446 sequences assigned  
6375 (98.9%) exact matches, in which:  
6238 unique CDR3  
13 unique J



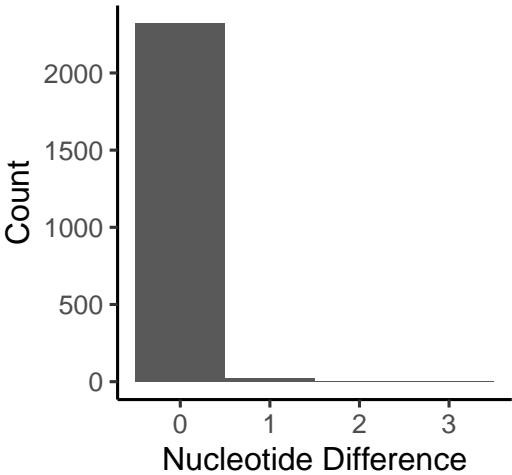
### TRBV12-2\*ap01

841 sequences assigned  
837 (99.5%) exact matches, in which:  
823 unique CDR3  
13 unique J



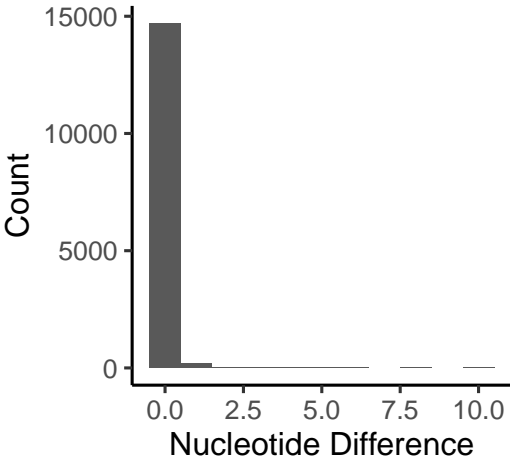
TRBV12-5\*ap01

2346 sequences assigned  
2321 (98.9%) exact matches, in which:  
2281 unique CDR3  
13 unique J



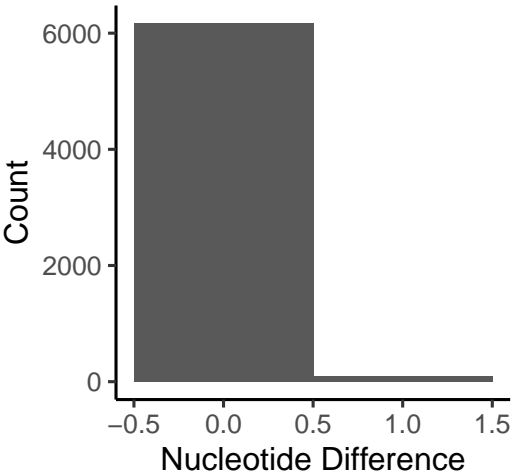
TRBV3-12\*ap01

14914 sequences assigned  
14706 (98.6%) exact matches, in which:  
14406 unique CDR3  
13 unique J



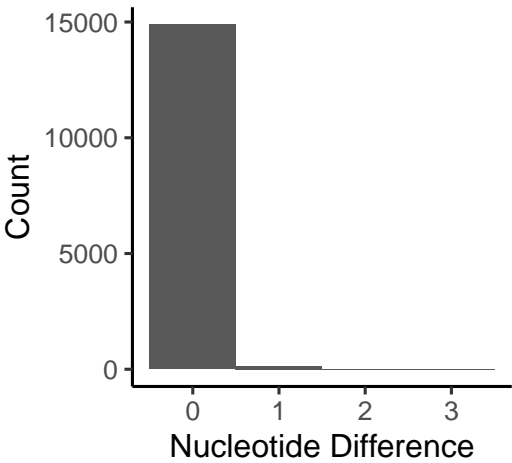
TRBV4-2\*ap01

6266 sequences assigned  
6168 (98.4%) exact matches, in which:  
6037 unique CDR3  
13 unique J



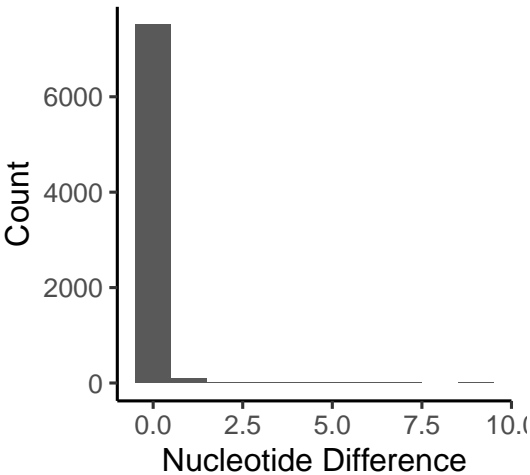
TRBV12-34\*ap01

15043 sequences assigned  
14894 (99%) exact matches, in which:  
14598 unique CDR3  
13 unique J



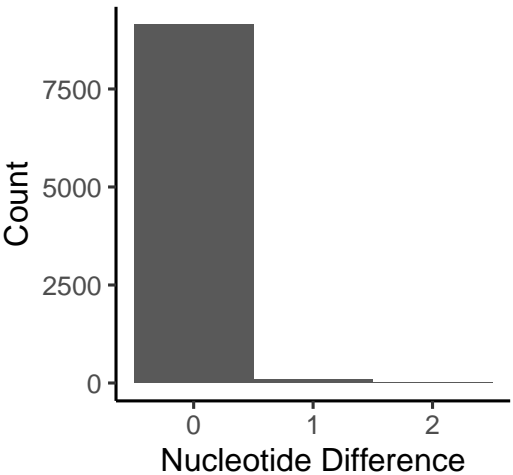
TRBV24-1\*ap01

7620 sequences assigned  
7510 (98.6%) exact matches, in which:  
7337 unique CDR3  
13 unique J



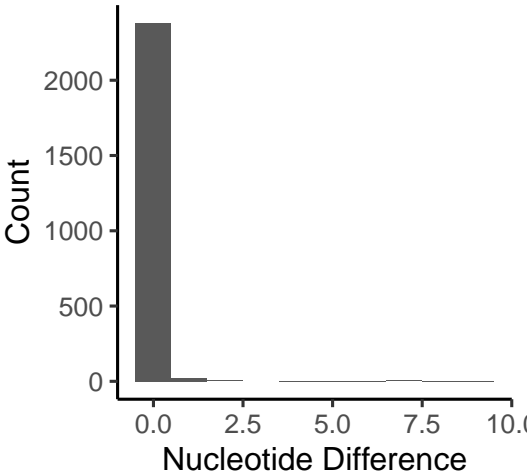
TRBV4-3\*ap01

9226 sequences assigned  
9139 (99.1%) exact matches, in which:  
8945 unique CDR3  
13 unique J



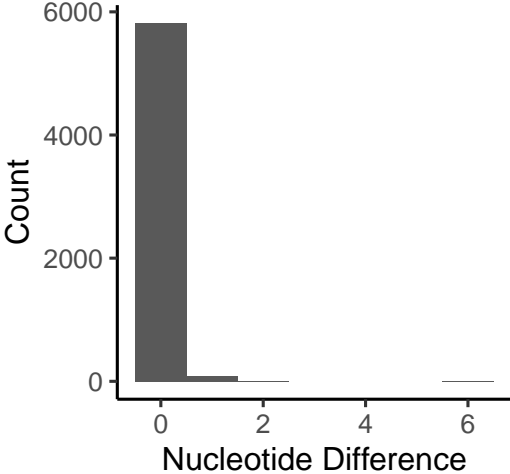
TRBV23-1\*ap01

2421 sequences assigned  
2380 (98.3%) exact matches, in which:  
2340 unique CDR3  
13 unique J



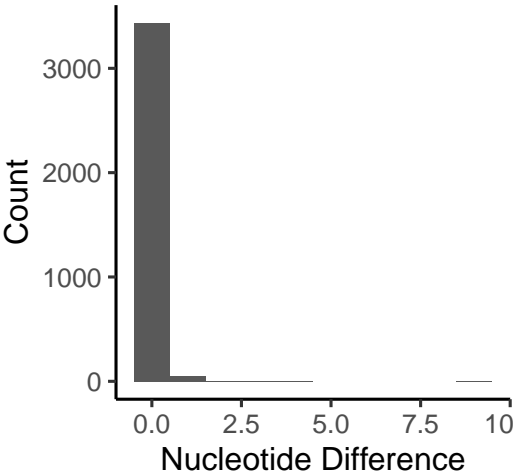
TRBV4-1\*ap01

5903 sequences assigned  
5818 (98.6%) exact matches, in which:  
5684 unique CDR3  
13 unique J



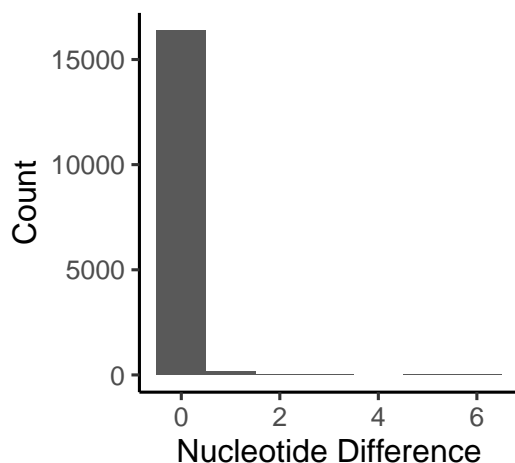
TRBV25-1\*ap01

3499 sequences assigned  
3434 (98.1%) exact matches, in which:  
3344 unique CDR3  
13 unique J



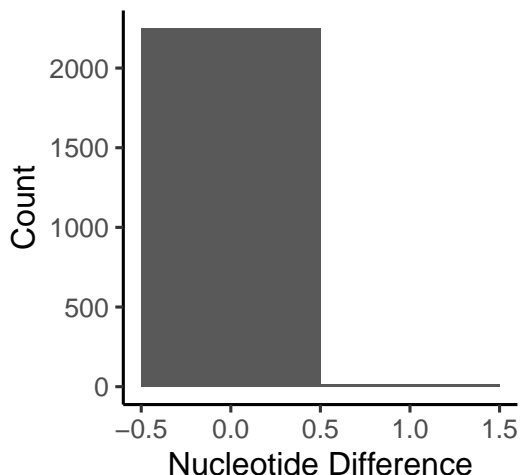
### TRBV5-1\*ap01

16596 sequences assigned  
16396 (98.8%) exact matches, in which:  
15982 unique CDR3  
13 unique J



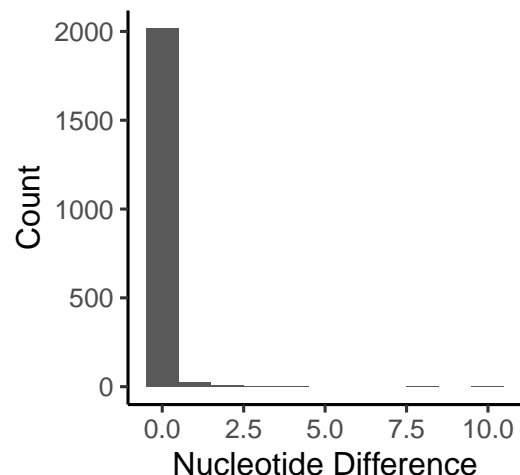
### TRBV5-5\*ap01

2267 sequences assigned  
2249 (99.2%) exact matches, in which:  
2229 unique CDR3  
13 unique J



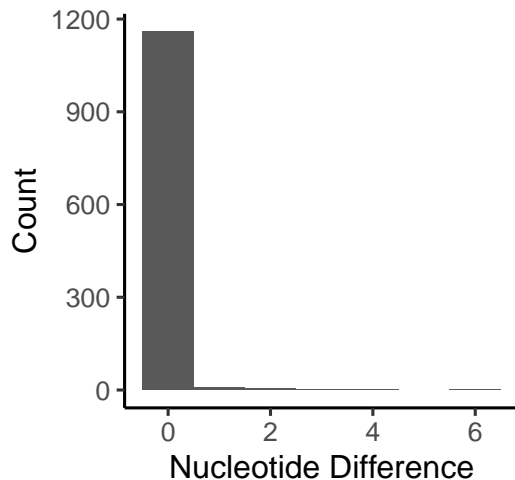
### TRBV5-8\*ap01

2058 sequences assigned  
2017 (98%) exact matches, in which:  
1987 unique CDR3  
13 unique J



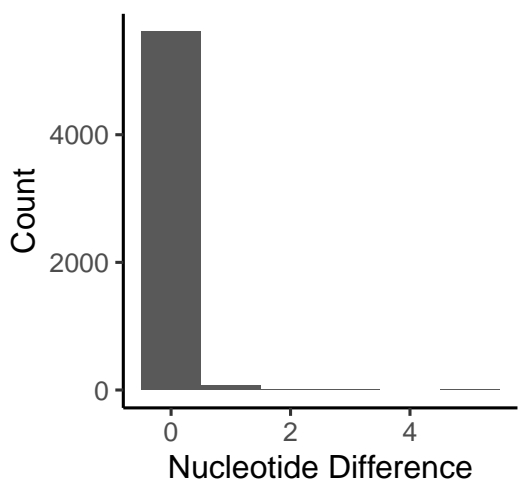
### TRBV5-3\*ap01

1178 sequences assigned  
1159 (98.4%) exact matches, in which:  
1149 unique CDR3  
13 unique J



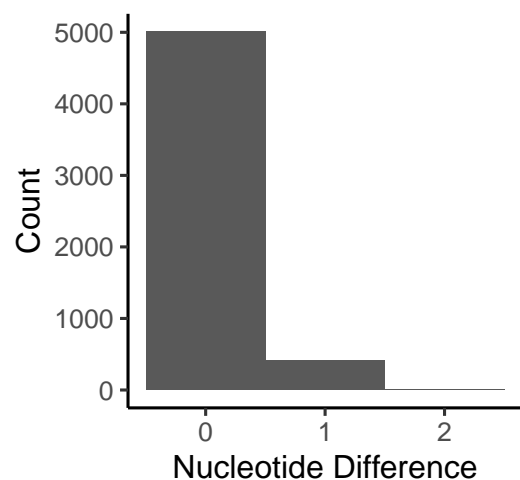
### TRBV5-6\*ap01

5687 sequences assigned  
5614 (98.7%) exact matches, in which:  
5460 unique CDR3  
13 unique J



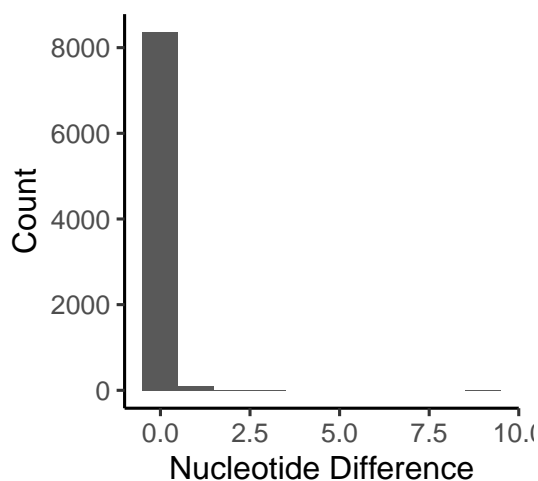
### TRBV6-1\*ap01

5422 sequences assigned  
5008 (92.4%) exact matches, in which:  
4886 unique CDR3  
13 unique J



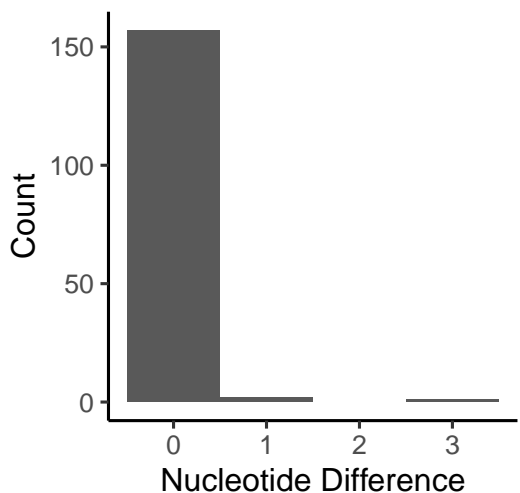
### TRBV5-4\*ap01

8467 sequences assigned  
8364 (98.8%) exact matches, in which:  
8202 unique CDR3  
13 unique J



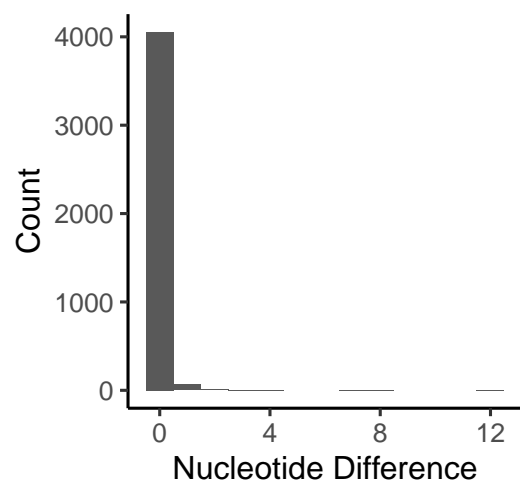
### TRBV5-7\*ap01

160 sequences assigned  
157 (98.1%) exact matches, in which:  
152 unique CDR3  
13 unique J



### TRBV6-4\*ap01

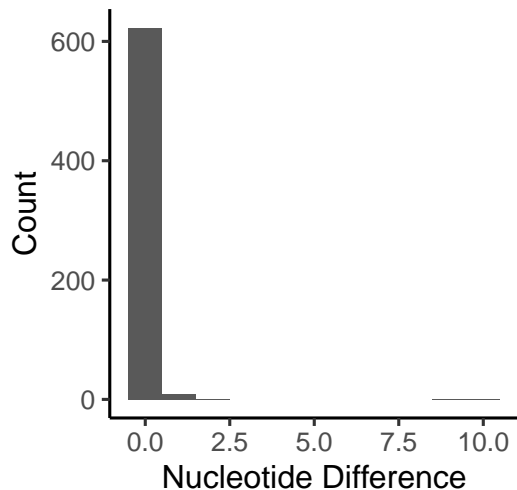
4140 sequences assigned  
4054 (97.9%) exact matches, in which:  
3979 unique CDR3  
13 unique J





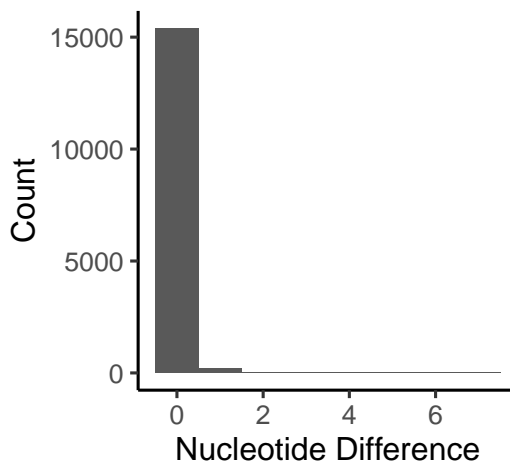
### TRBV6-7\*ap01

635 sequences assigned  
623 (98.1%) exact matches, in which:  
607 unique CDR3  
13 unique J



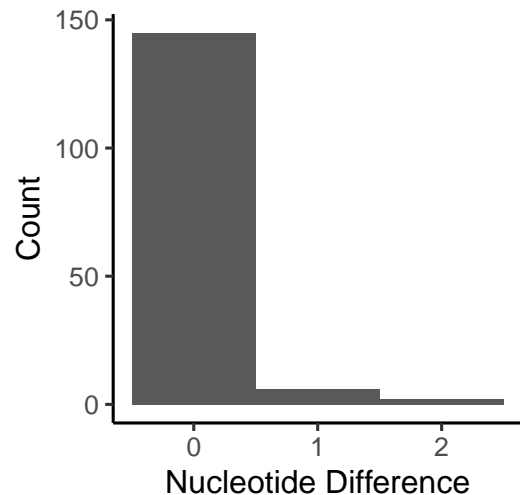
### TRBV6-23\*ap01

15604 sequences assigned  
15402 (98.7%) exact matches, in which:  
14953 unique CDR3  
13 unique J



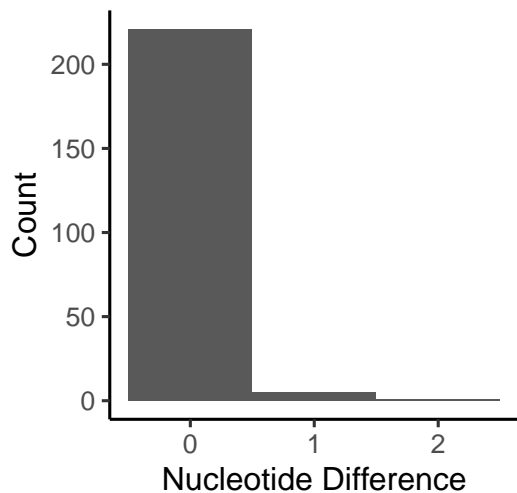
### TRBV7-1\*ap01\_G291C\_1

153 sequences assigned  
145 (94.8%) exact matches, in which:  
142 unique CDR3  
13 unique J



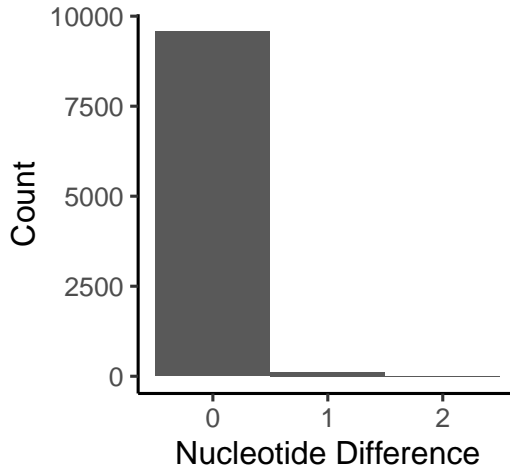
### TRBV6-8\*ap01

227 sequences assigned  
221 (97.4%) exact matches, in which:  
216 unique CDR3  
13 unique J



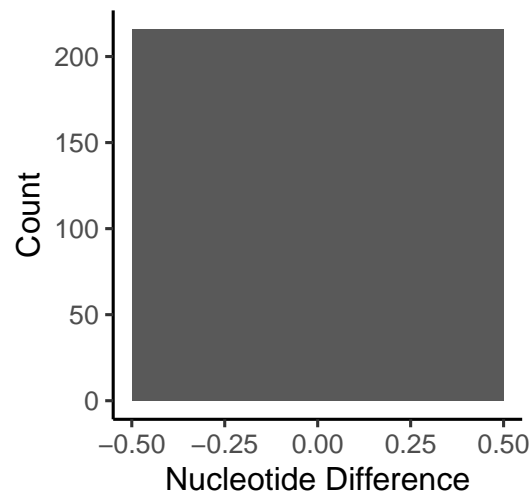
### TRBV6-56\*ap01

9691 sequences assigned  
9575 (98.8%) exact matches, in which:  
9313 unique CDR3  
13 unique J



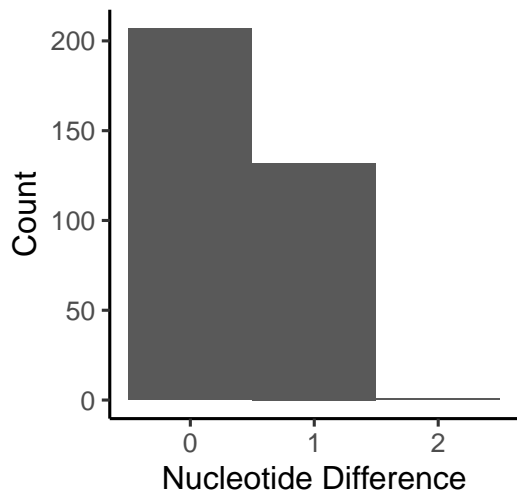
### TRBV7-1\*ap01\_G291C\_1

216 sequences assigned  
216 (100%) exact matches, in which:  
213 unique CDR3  
13 unique J



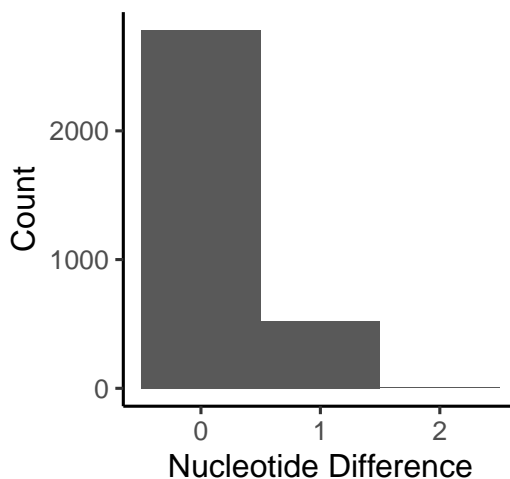
### TRBV6-9\*ap01

340 sequences assigned  
207 (60.9%) exact matches, in which:  
200 unique CDR3  
13 unique J



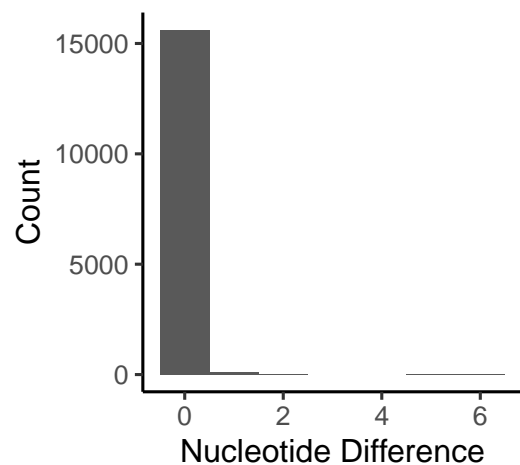
### TRBV6-56\*ap02

3311 sequences assigned  
2783 (84.1%) exact matches, in which:  
2713 unique CDR3  
13 unique J



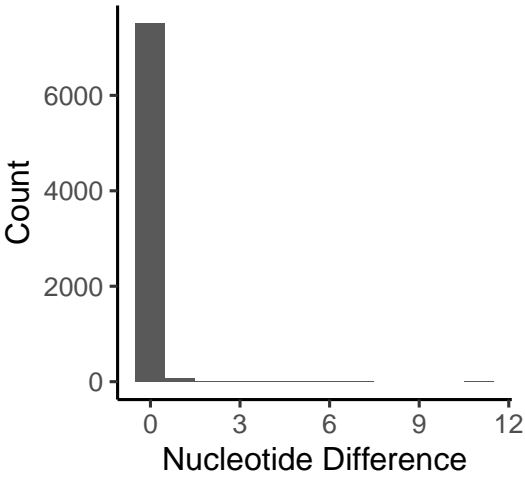
### TRBV7-2\*ap01

15761 sequences assigned  
15620 (99.1%) exact matches, in which:  
15344 unique CDR3  
13 unique J



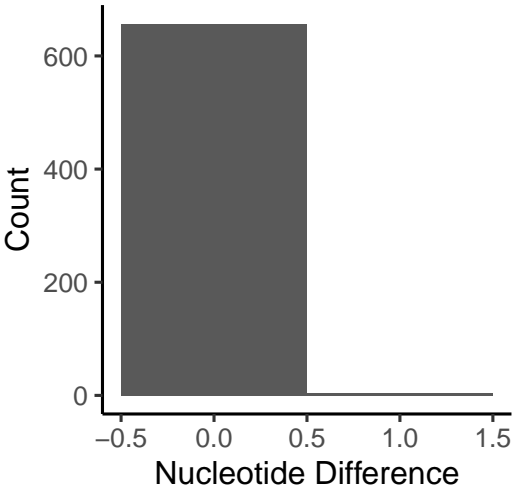
TRBV7-3\*ap01

7595 sequences assigned  
7508 (98.9%) exact matches, in which:  
7407 unique CDR3  
13 unique J



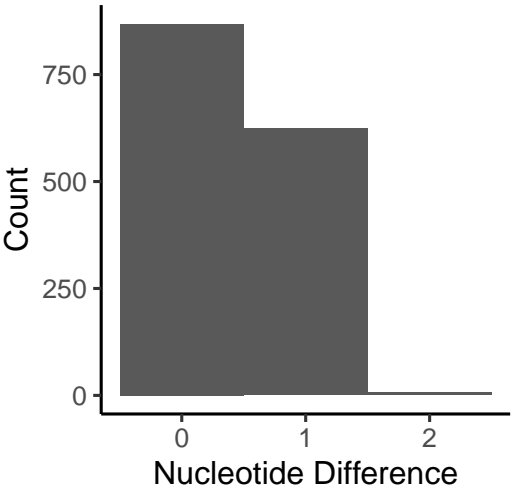
TRBV7-7\*ap01

661 sequences assigned  
657 (99.4%) exact matches, in which:  
646 unique CDR3  
13 unique J



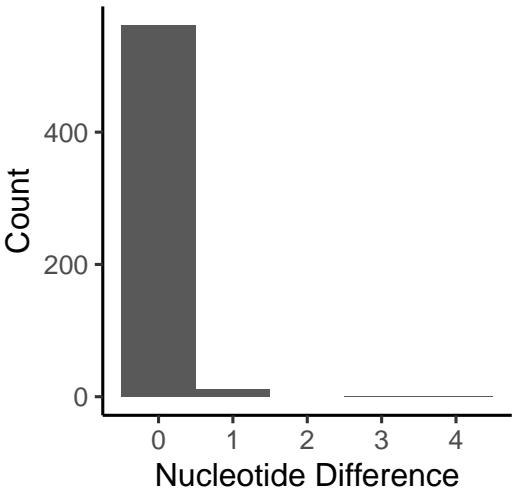
TRBV7-8\*ap03

1500 sequences assigned  
869 (57.9%) exact matches, in which:  
849 unique CDR3  
13 unique J



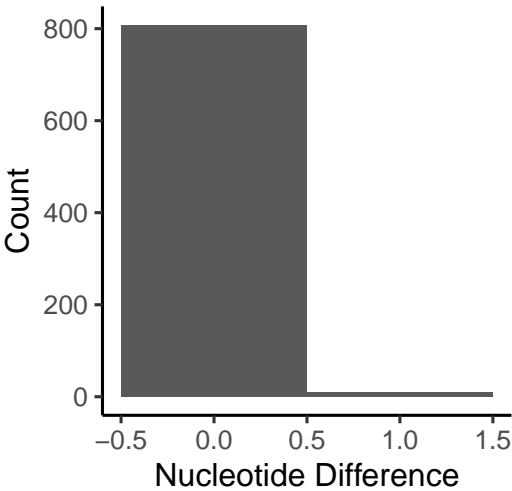
TRBV7-4\*ap01

575 sequences assigned  
562 (97.7%) exact matches, in which:  
548 unique CDR3  
13 unique J



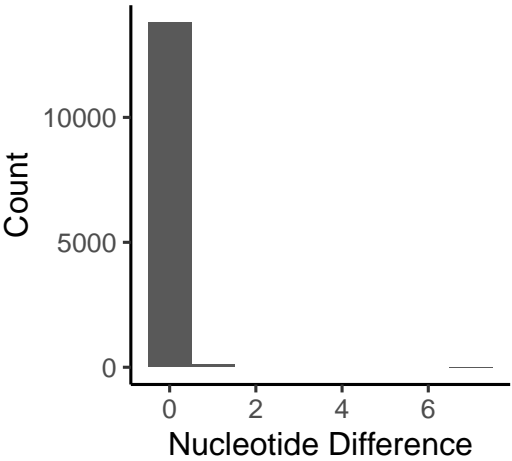
TRBV7-7\*ap01\_C315T

818 sequences assigned  
808 (98.8%) exact matches, in which:  
792 unique CDR3  
13 unique J



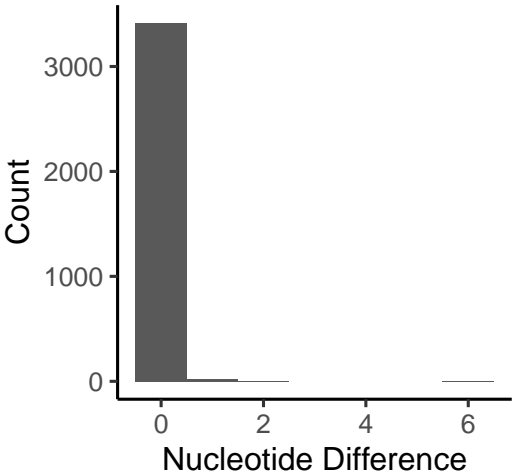
TRBV7-9\*ap01

13910 sequences assigned  
13799 (99.2%) exact matches, in which:  
13560 unique CDR3  
13 unique J



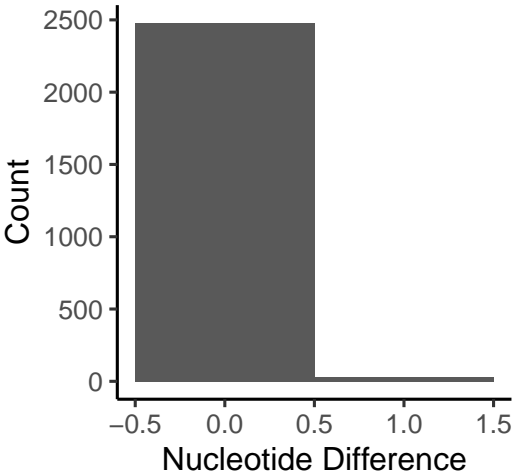
TRBV7-6\*ap01

3441 sequences assigned  
3414 (99.2%) exact matches, in which:  
3331 unique CDR3  
13 unique J



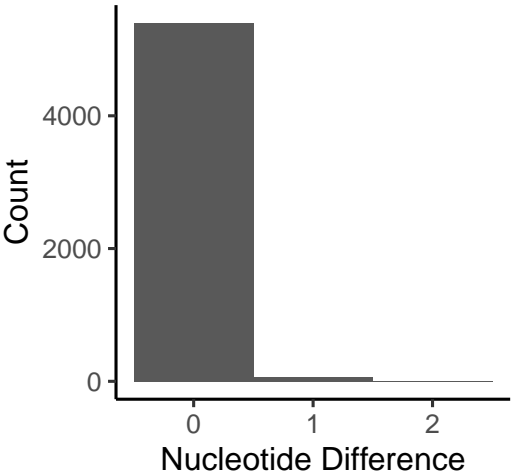
TRBV7-8\*ap01

2507 sequences assigned  
2478 (98.8%) exact matches, in which:  
2426 unique CDR3  
13 unique J



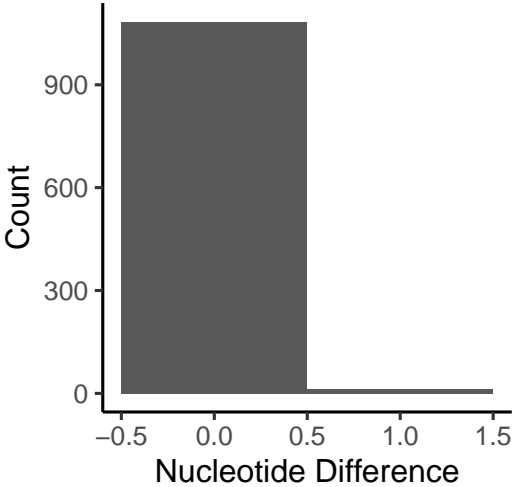
TRBV29-1\*ap01

5465 sequences assigned  
5397 (98.8%) exact matches, in which:  
5273 unique CDR3  
13 unique J

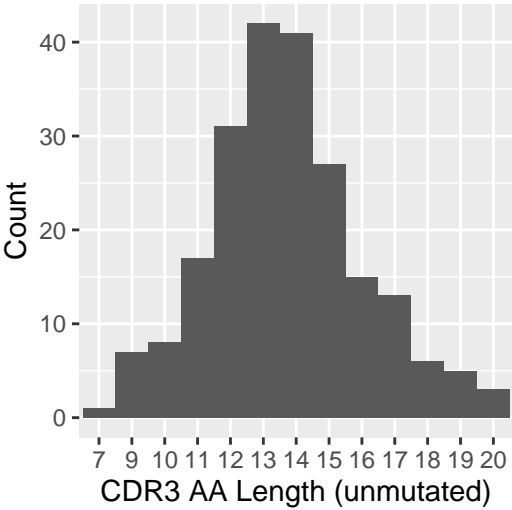


TRBV29-1\*ap02

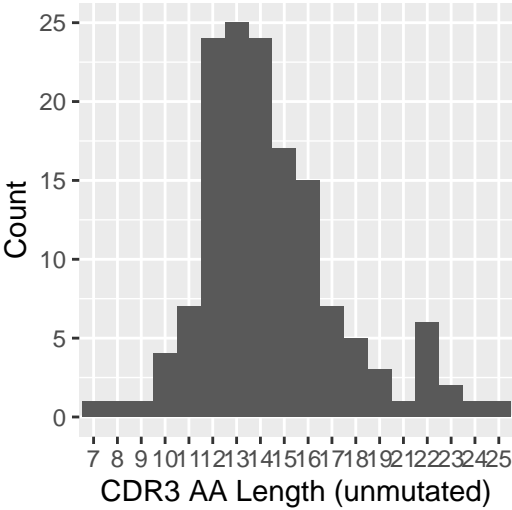
1097 sequences assigned  
1084 (98.8%) exact matches, in which:  
1056 unique CDR3  
13 unique J



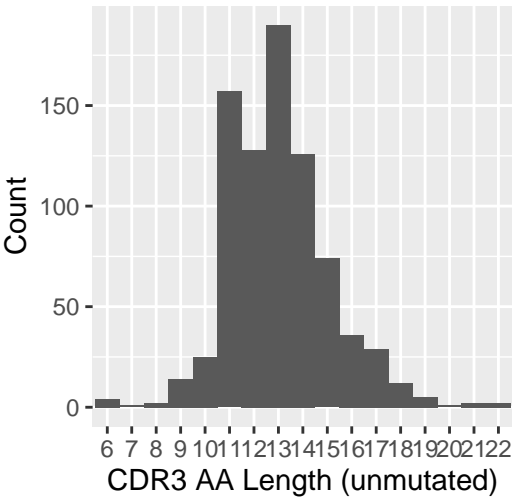
TRBV7-1\*ap01\_G291C\_T296C\_C314T

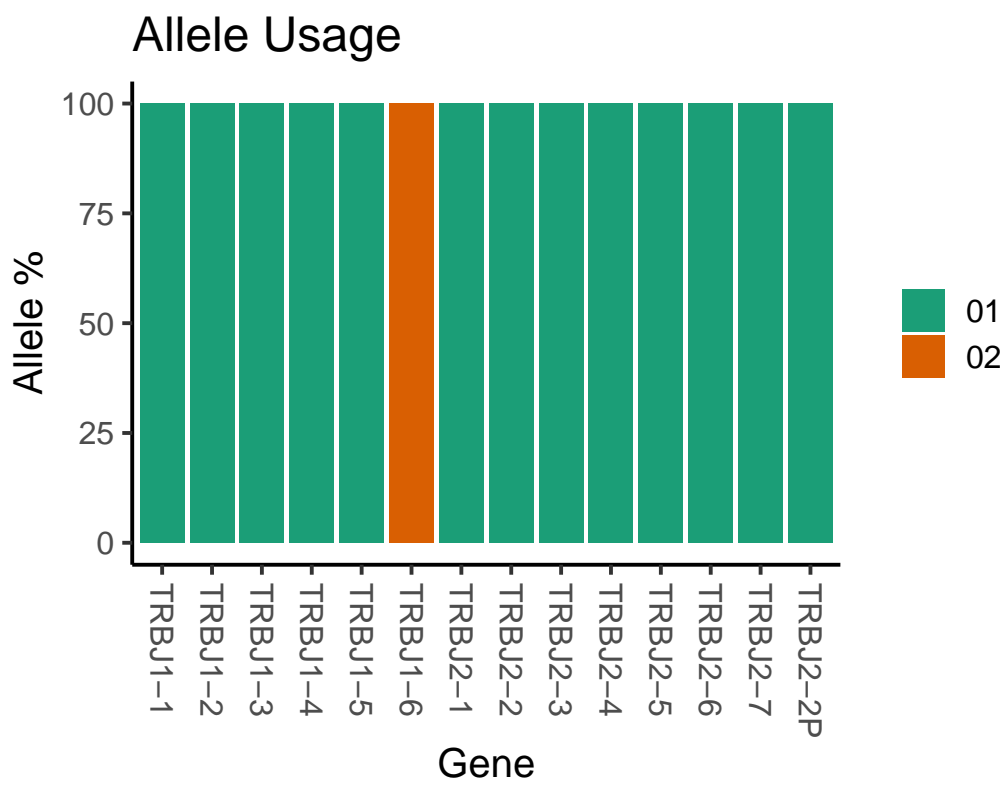


TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]