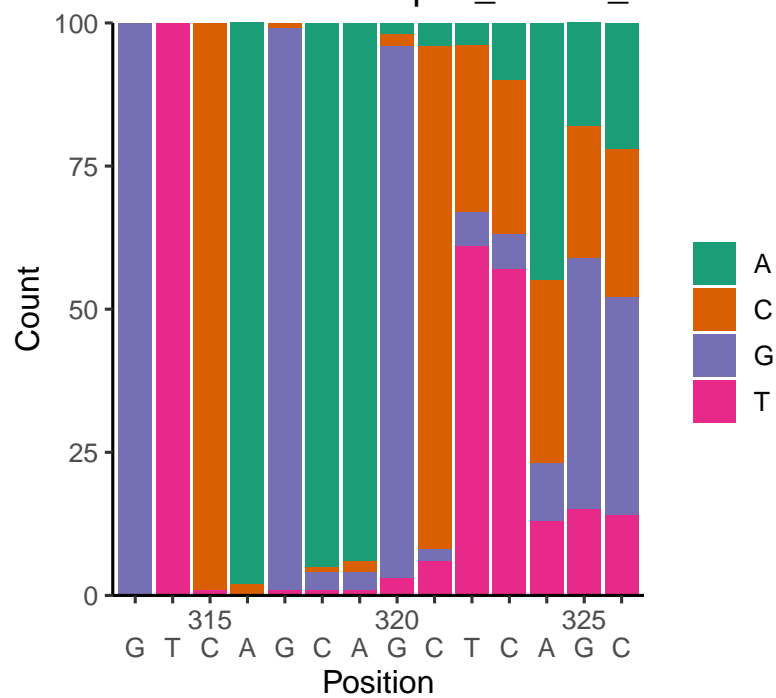
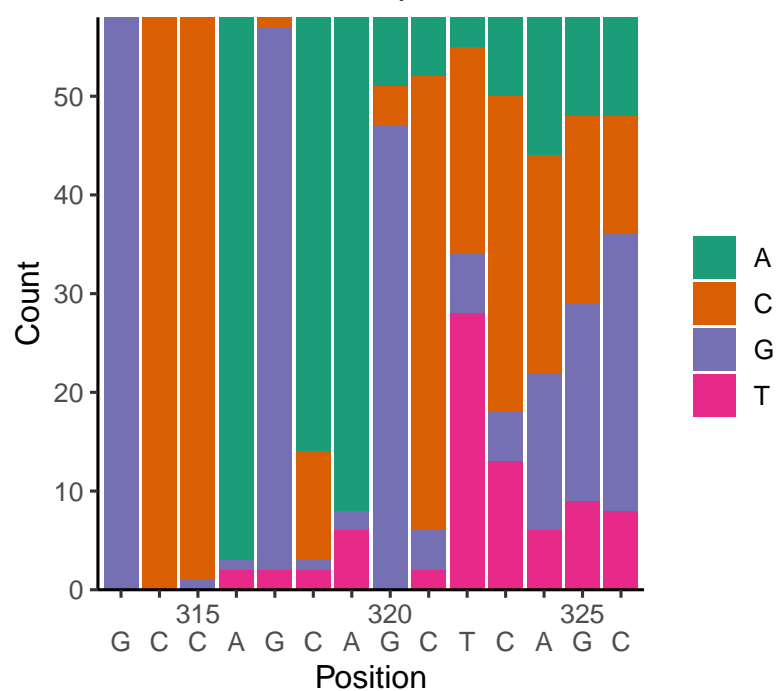


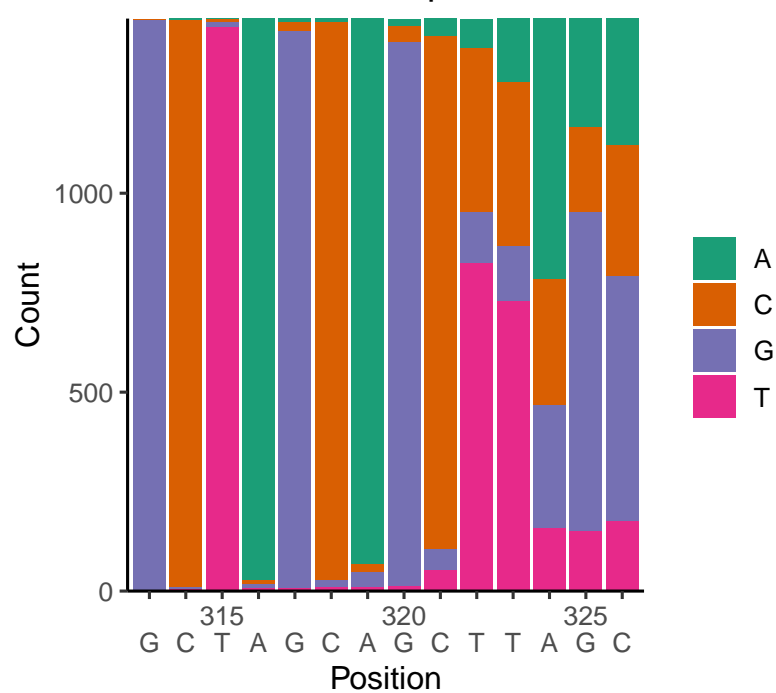
Gene TRBV7-1\*ap01\_T296C\_C314T



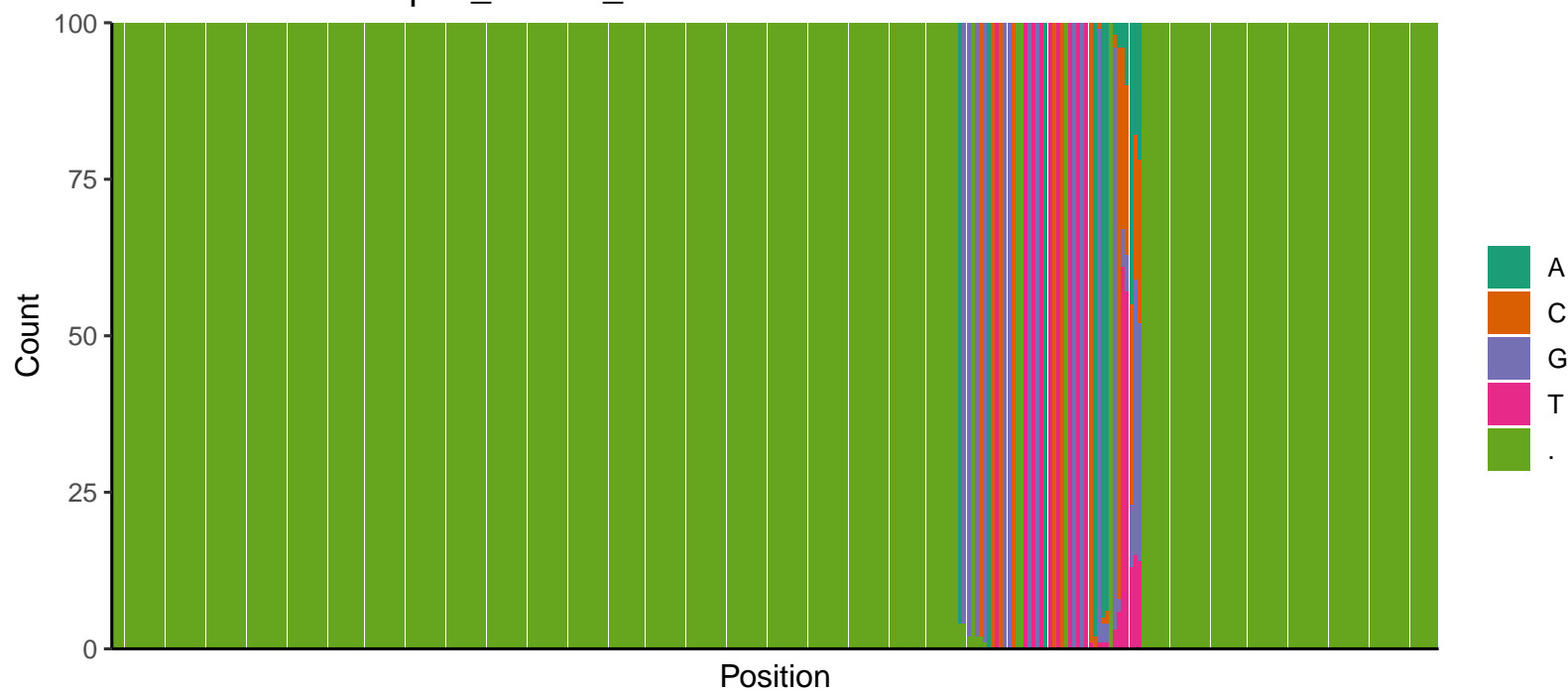
Gene TRBV7-1\*ap01\_T296C



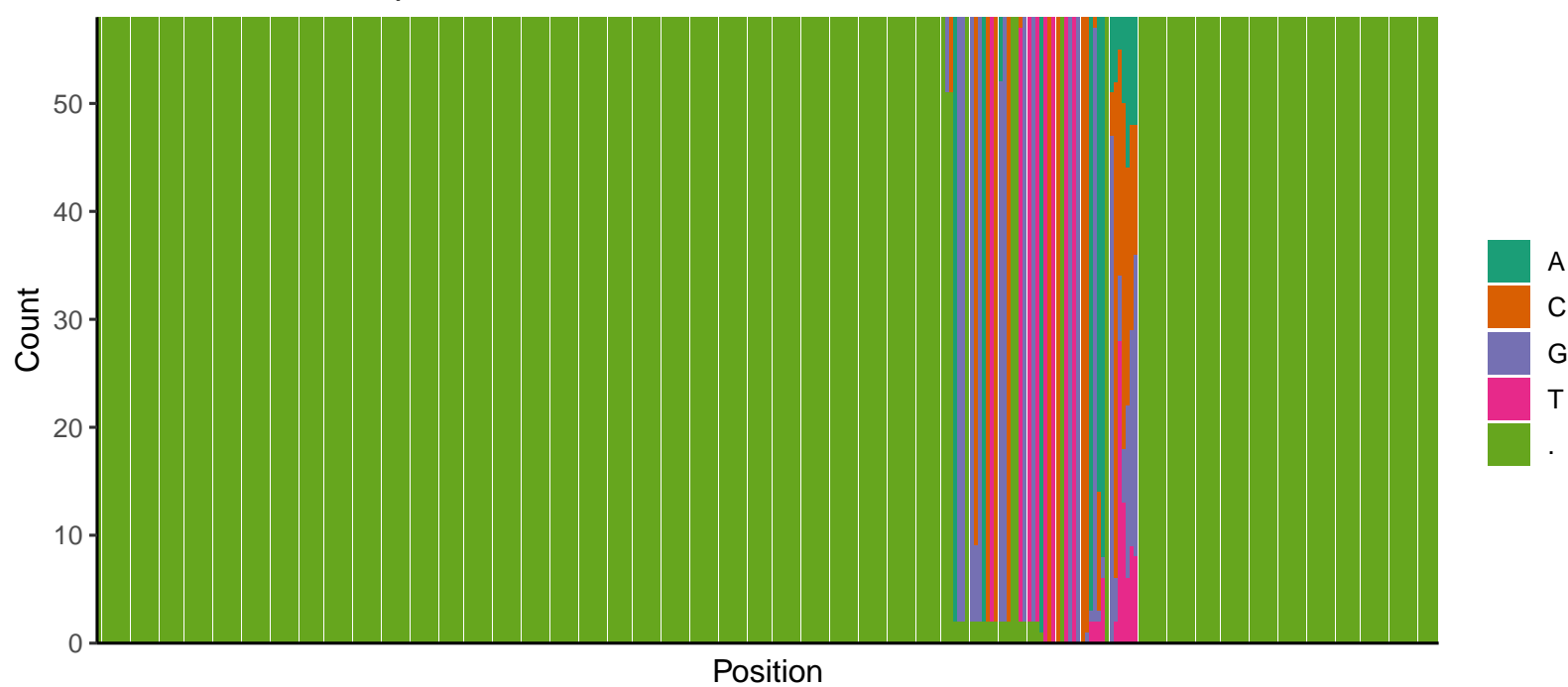
Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_T296C\_C314T



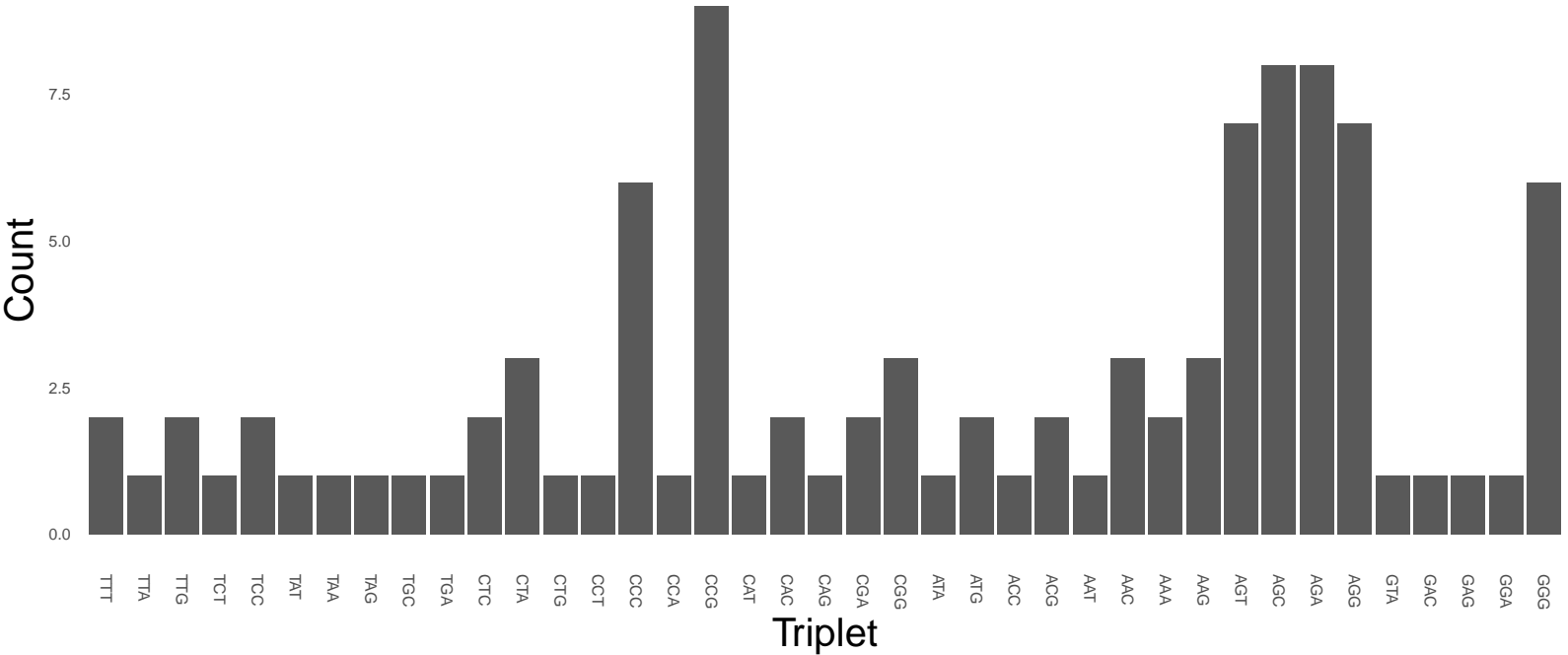
Gene TRBV7-1\*ap01\_T296C



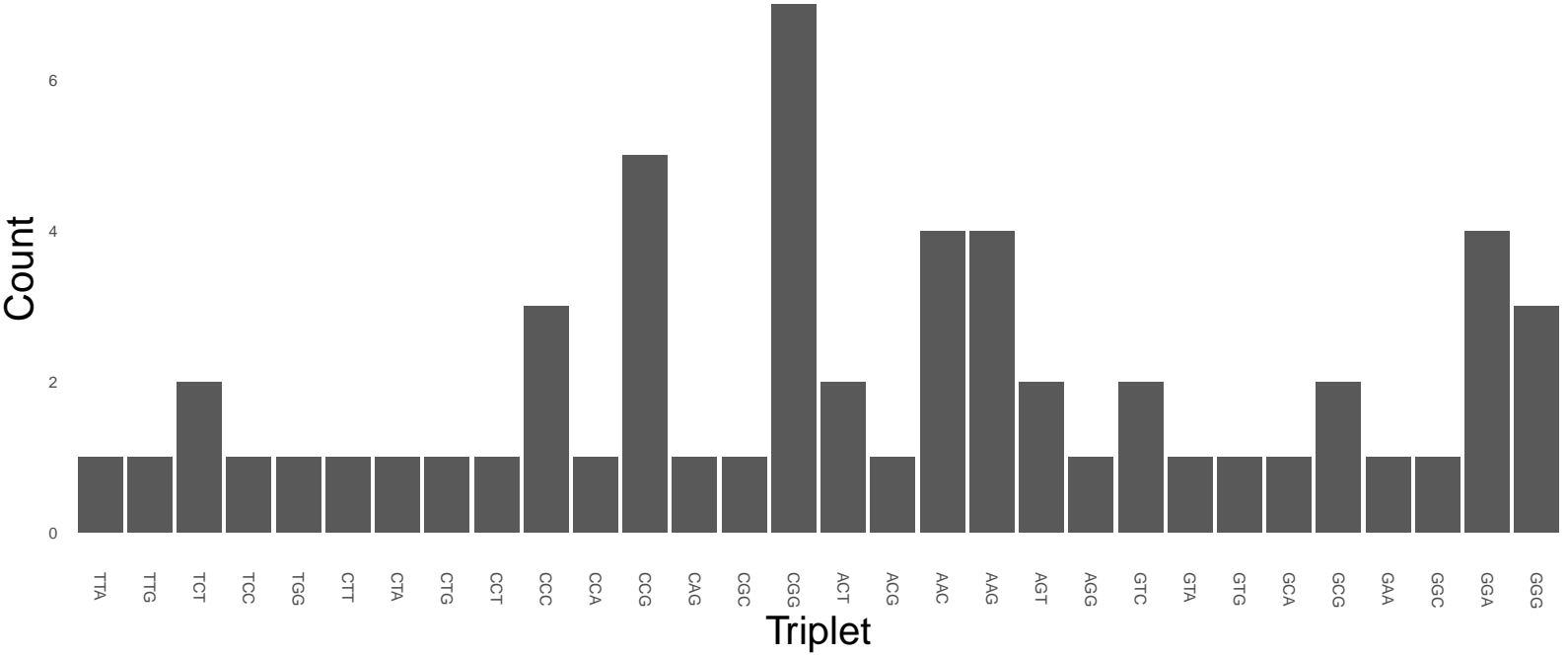
Gene TRBV7-7\*ap01\_C315T



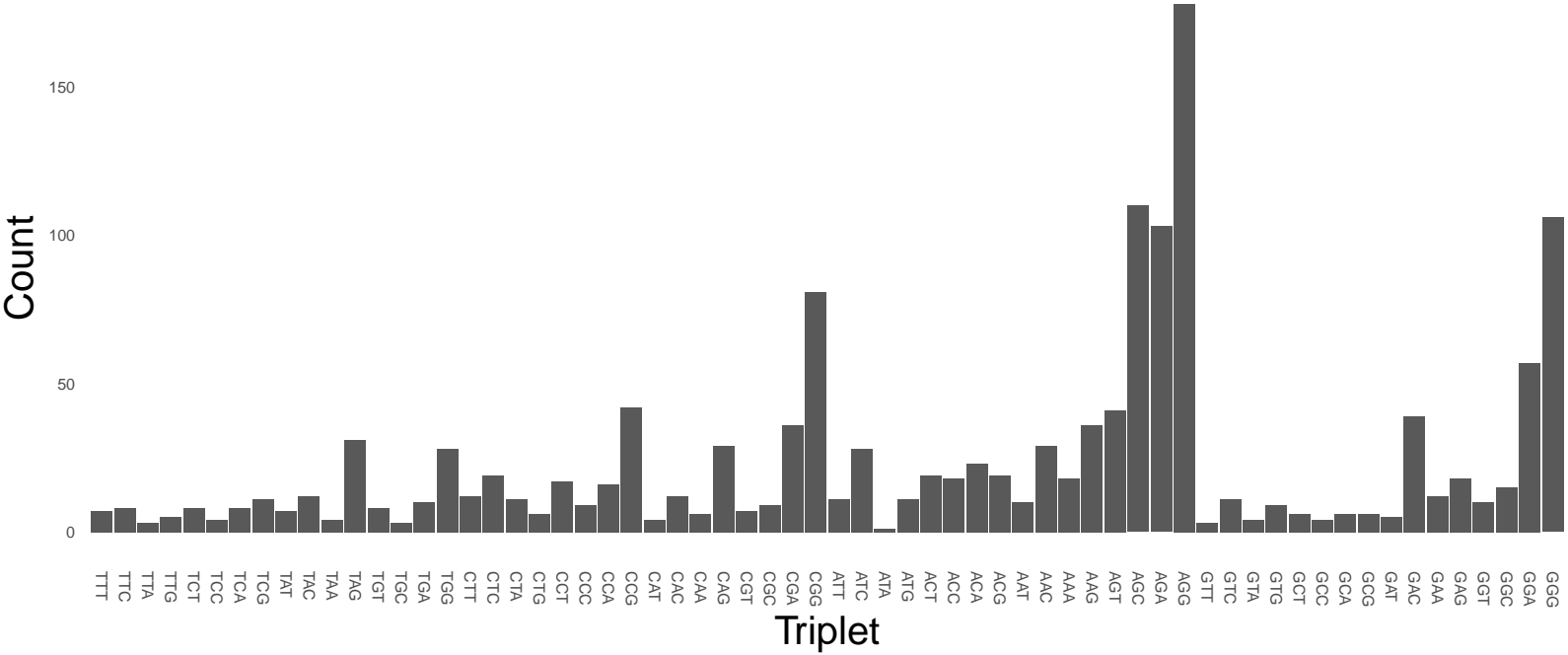
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

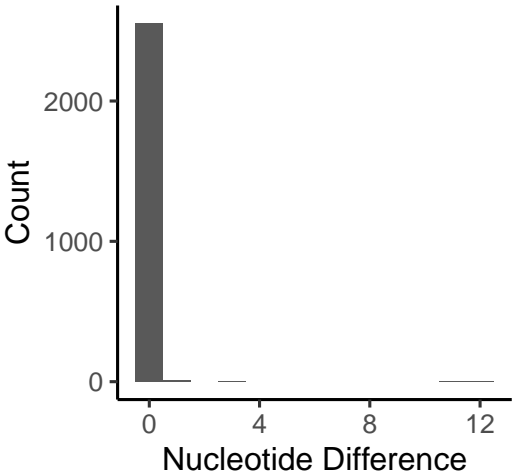


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



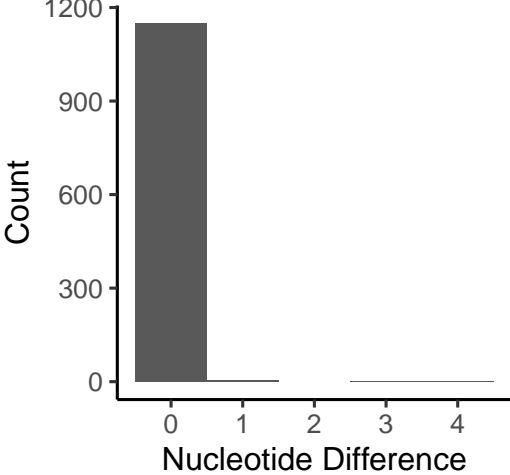
TRBV10-1\*ap01

2567 sequences assigned  
2553 (99.5%) exact matches, in which:  
2528 unique CDR3  
13 unique J



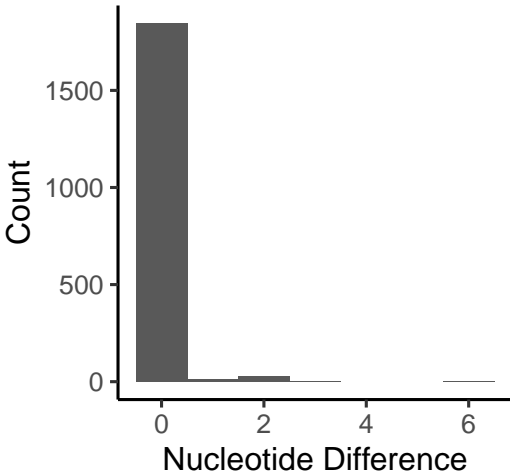
TRBV10-2\*ap01

1155 sequences assigned  
1149 (99.5%) exact matches, in which:  
1140 unique CDR3  
13 unique J



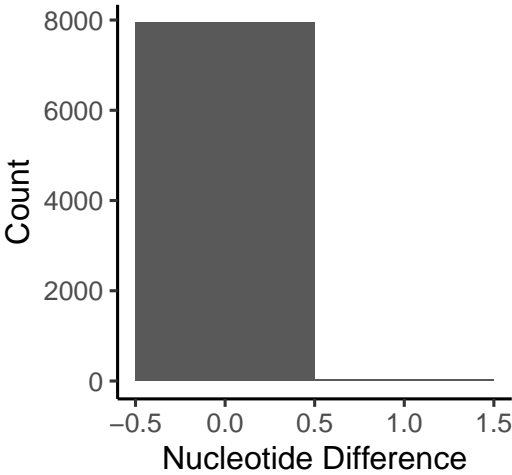
TRBV13\*ap01

1888 sequences assigned  
1845 (97.7%) exact matches, in which:  
1819 unique CDR3  
13 unique J



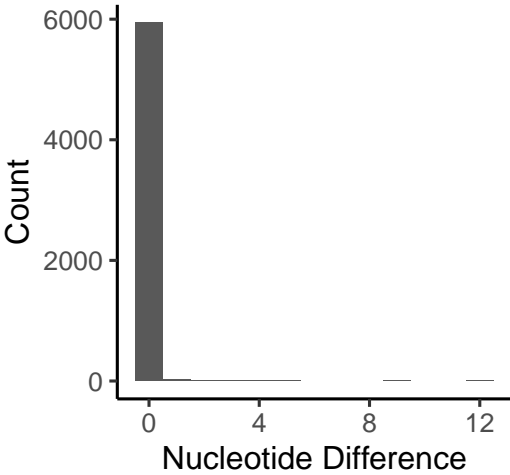
TRBV20-1\*ap01

7973 sequences assigned  
7940 (99.6%) exact matches, in which:  
7884 unique CDR3  
13 unique J



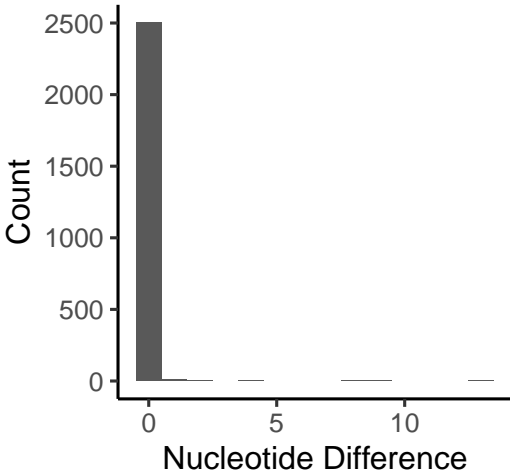
TRBV10-3\*ap01

5971 sequences assigned  
5941 (99.5%) exact matches, in which:  
5885 unique CDR3  
13 unique J



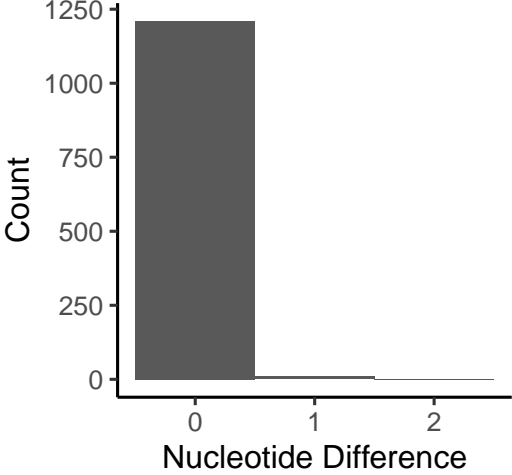
TRBV14\*ap01

2515 sequences assigned  
2502 (99.5%) exact matches, in which:  
2489 unique CDR3  
13 unique J



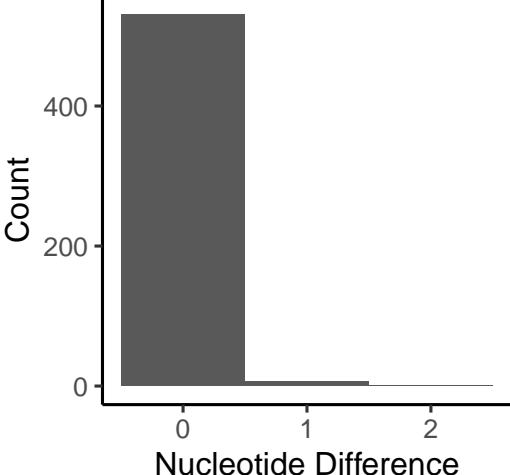
TRBV20-1\*ap02

1221 sequences assigned  
1210 (99.1%) exact matches, in which:  
1197 unique CDR3  
13 unique J



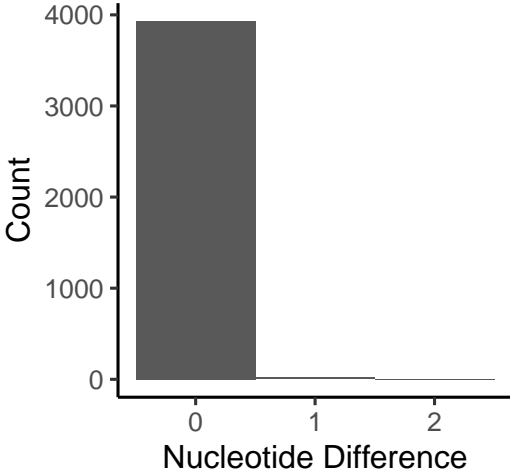
TRBV1\*ap01

538 sequences assigned  
531 (98.7%) exact matches, in which:  
521 unique CDR3  
13 unique J



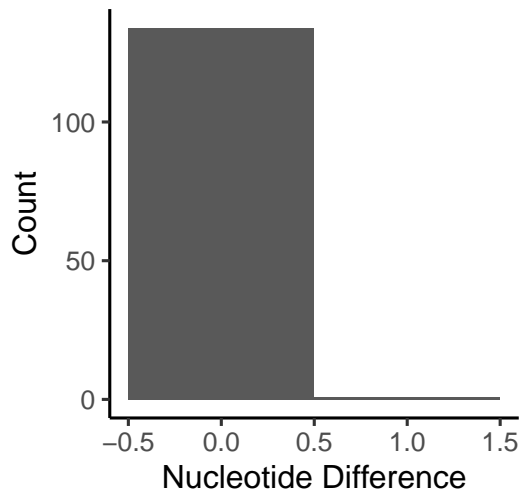
TRBV15\*ap02

3956 sequences assigned  
3932 (99.4%) exact matches, in which:  
3889 unique CDR3  
13 unique J



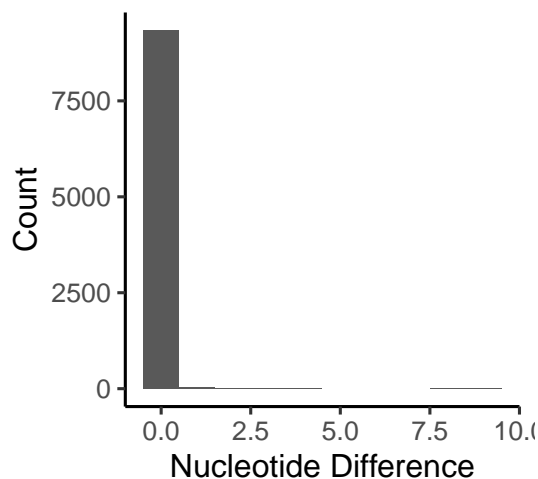
### TRBV16\*ap01

135 sequences assigned  
134 (99.3%) exact matches, in which:  
133 unique CDR3  
13 unique J



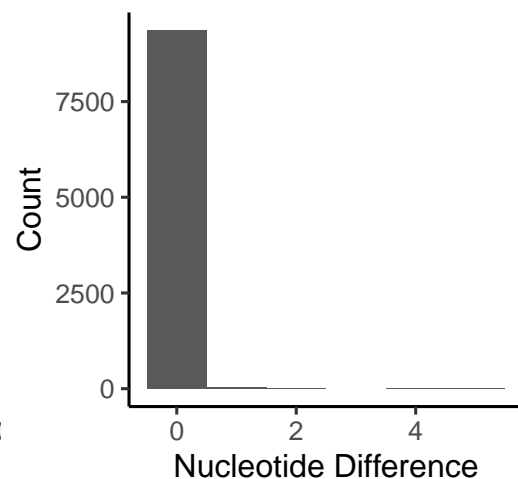
### TRBV19\*ap01

9379 sequences assigned  
9336 (99.5%) exact matches, in which:  
9284 unique CDR3  
13 unique J



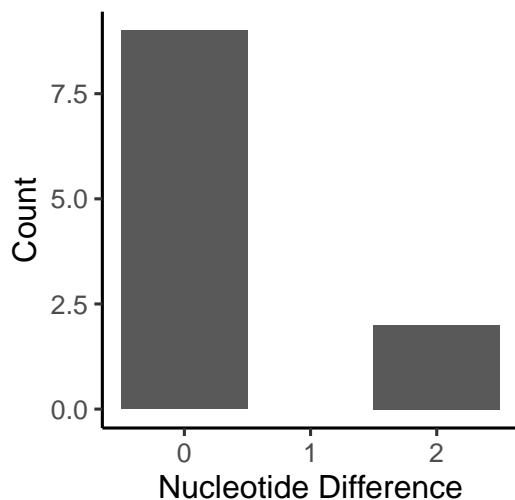
### TRBV28\*ap01

9399 sequences assigned  
9359 (99.6%) exact matches, in which:  
9295 unique CDR3  
13 unique J



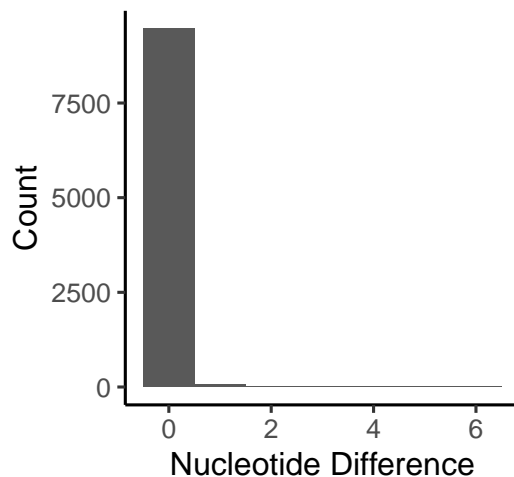
### TRBV17\*ap01

11 sequences assigned  
9 (81.8%) exact matches, in which:  
9 unique CDR3  
6 unique J



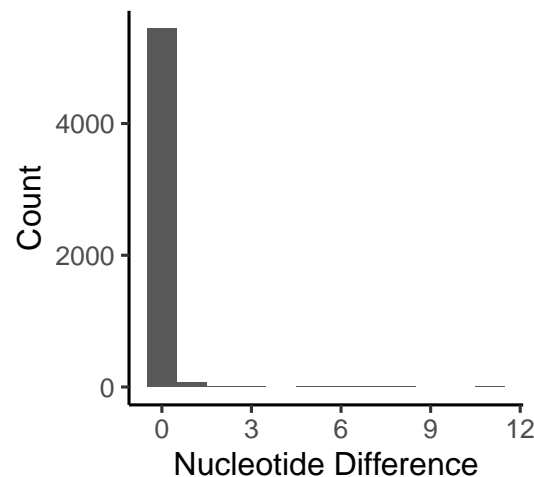
### TRBV2\*ap01

9542 sequences assigned  
9462 (99.2%) exact matches, in which:  
9346 unique CDR3  
13 unique J



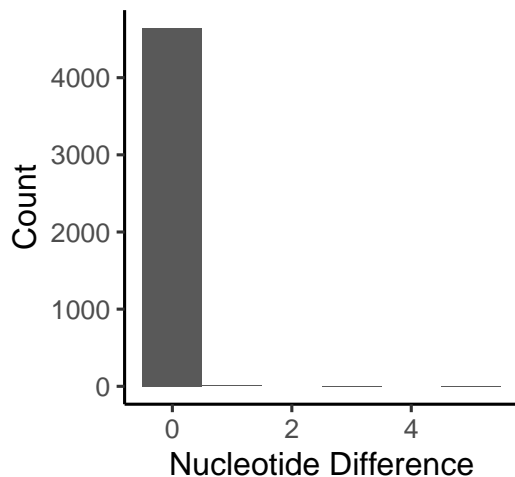
### TRBV30\*ap01

5523 sequences assigned  
5439 (98.5%) exact matches, in which:  
5295 unique CDR3  
13 unique J



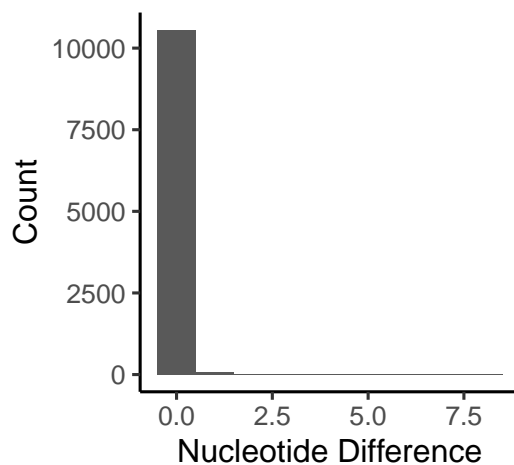
### TRBV18\*ap01

4655 sequences assigned  
4643 (99.7%) exact matches, in which:  
4629 unique CDR3  
13 unique J



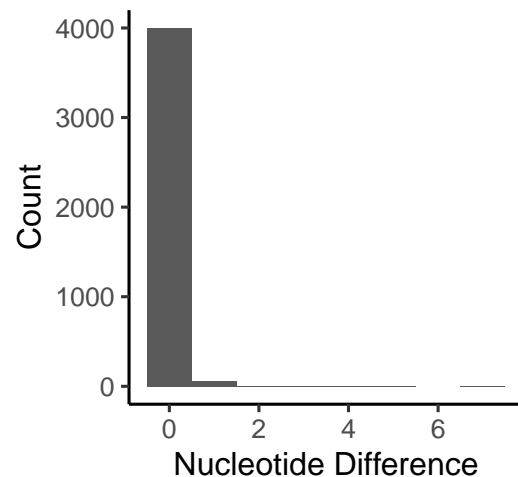
### TRBV27\*ap01

10640 sequences assigned  
10561 (99.3%) exact matches, in which:  
10408 unique CDR3  
13 unique J



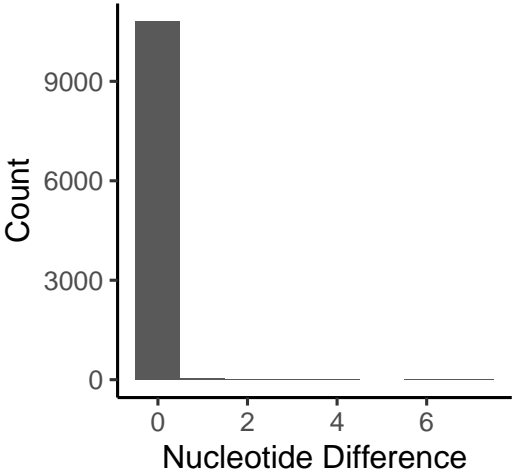
### TRBV30\*ap02

4065 sequences assigned  
3999 (98.4%) exact matches, in which:  
3920 unique CDR3  
13 unique J



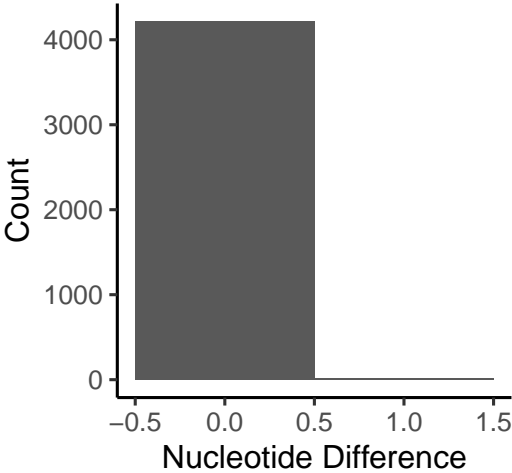
TRBV9\*ap01

10855 sequences assigned  
10808 (99.6%) exact matches, in which:  
10726 unique CDR3  
13 unique J



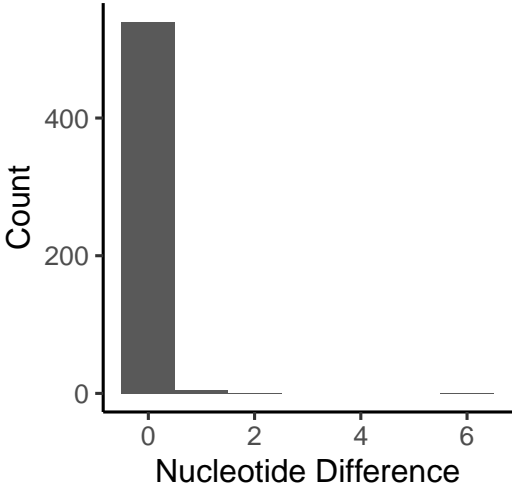
TRBV11-2\*ap01

4230 sequences assigned  
4216 (99.7%) exact matches, in which:  
4197 unique CDR3  
13 unique J



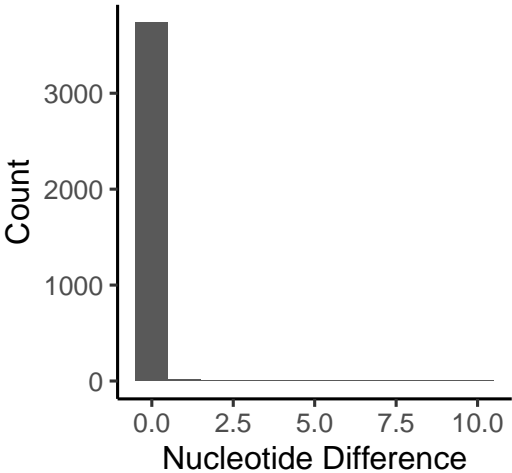
TRBV12-2\*ap01

547 sequences assigned  
540 (98.7%) exact matches, in which:  
536 unique CDR3  
13 unique J



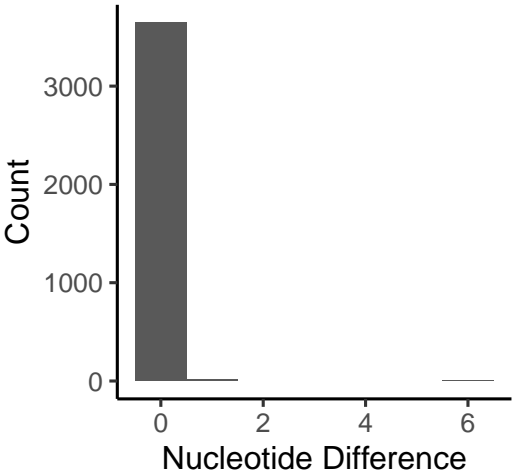
TRBV21-1\*ap01

3770 sequences assigned  
3735 (99.1%) exact matches, in which:  
3716 unique CDR3  
13 unique J



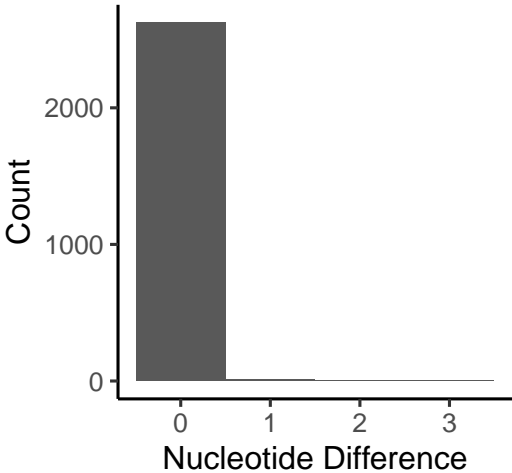
TRBV11-3\*ap01

3657 sequences assigned  
3645 (99.7%) exact matches, in which:  
3626 unique CDR3  
13 unique J



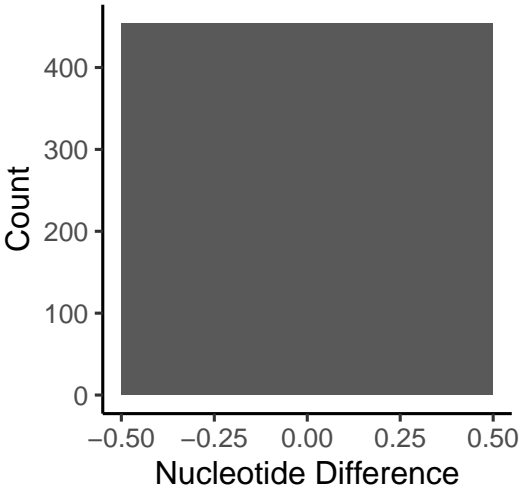
TRBV12-5\*ap01

2638 sequences assigned  
2623 (99.4%) exact matches, in which:  
2600 unique CDR3  
13 unique J



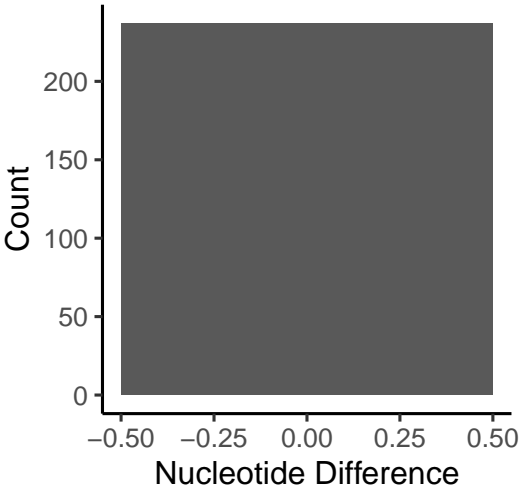
TRBV11-1\*ap01

454 sequences assigned  
454 (100%) exact matches, in which:  
450 unique CDR3  
13 unique J



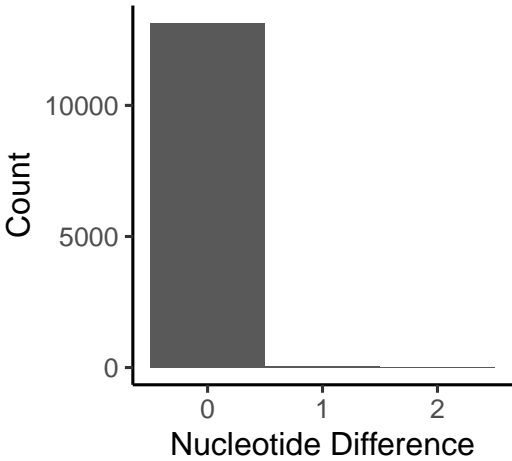
TRBV12-1\*ap01

237 sequences assigned  
237 (100%) exact matches, in which:  
236 unique CDR3  
13 unique J



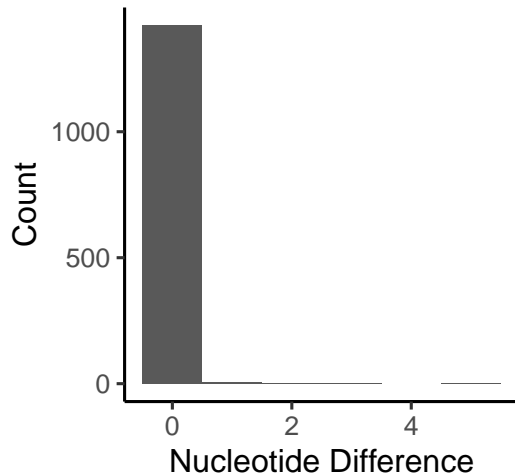
TRBV12-34\*ap01

13230 sequences assigned  
13150 (99.4%) exact matches, in which:  
13048 unique CDR3  
13 unique J



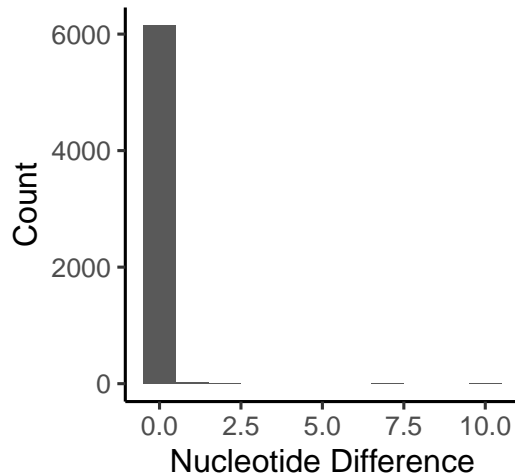
### TRBV23-1\*ap01

1429 sequences assigned  
1422 (99.5%) exact matches, in which:  
1412 unique CDR3  
13 unique J



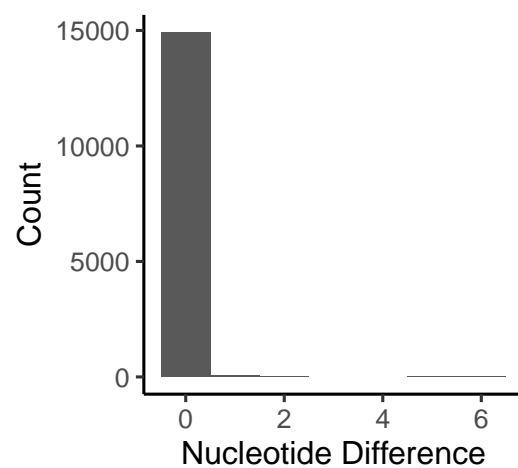
### TRBV4-1\*ap01

6185 sequences assigned  
6149 (99.4%) exact matches, in which:  
6052 unique CDR3  
13 unique J



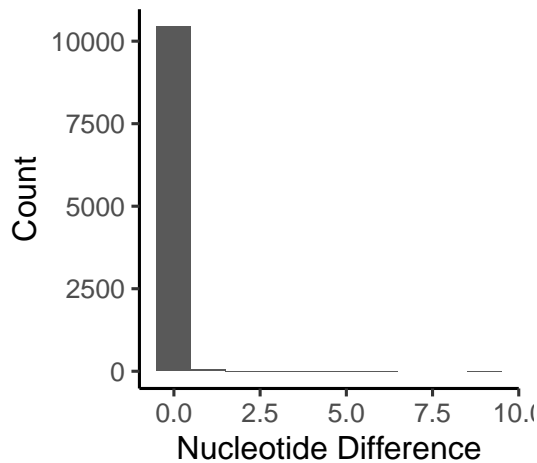
### TRBV5-1\*ap01

15007 sequences assigned  
14928 (99.5%) exact matches, in which:  
14689 unique CDR3  
13 unique J



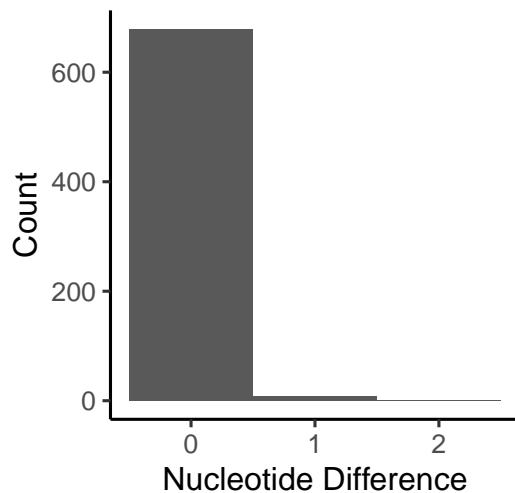
### TRBV3-12\*ap01

10516 sequences assigned  
10445 (99.3%) exact matches, in which:  
10331 unique CDR3  
13 unique J



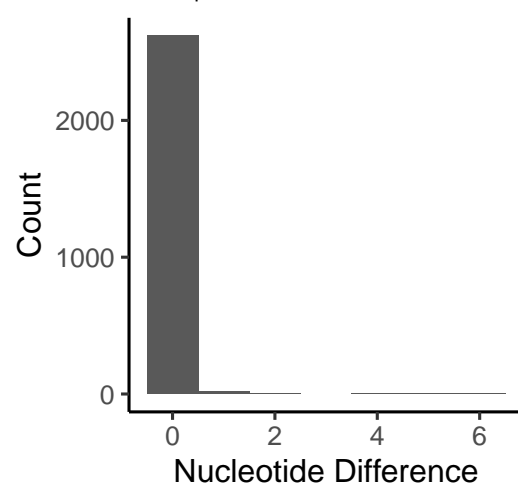
### TRBV4-2\*ap01

689 sequences assigned  
679 (98.5%) exact matches, in which:  
672 unique CDR3  
13 unique J



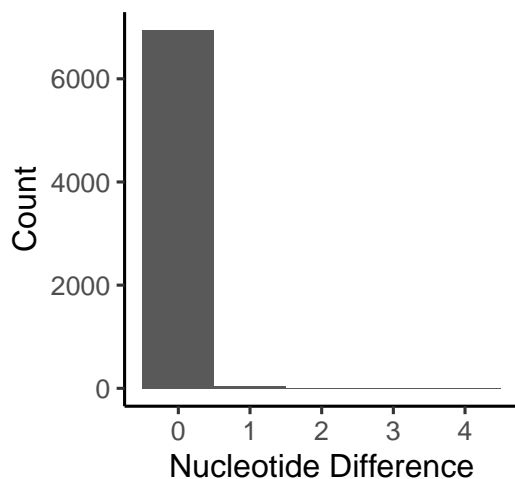
### TRBV25-1\*ap01

2645 sequences assigned  
2619 (99%) exact matches, in which:  
2572 unique CDR3  
13 unique J



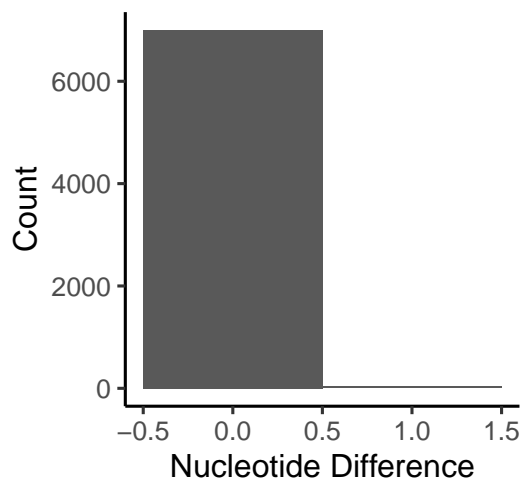
### TRBV24-1\*ap01

6999 sequences assigned  
6945 (99.2%) exact matches, in which:  
6860 unique CDR3  
13 unique J



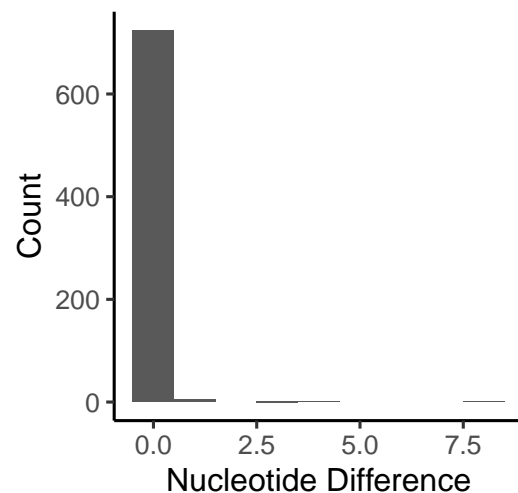
### TRBV4-3\*ap01

7038 sequences assigned  
7001 (99.5%) exact matches, in which:  
6918 unique CDR3  
13 unique J



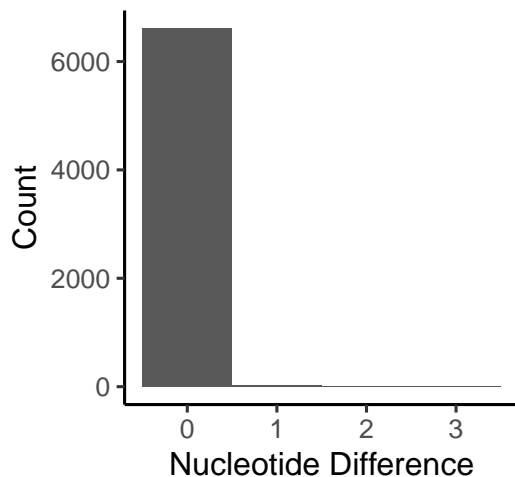
### TRBV5-3\*ap01

733 sequences assigned  
724 (98.8%) exact matches, in which:  
718 unique CDR3  
13 unique J



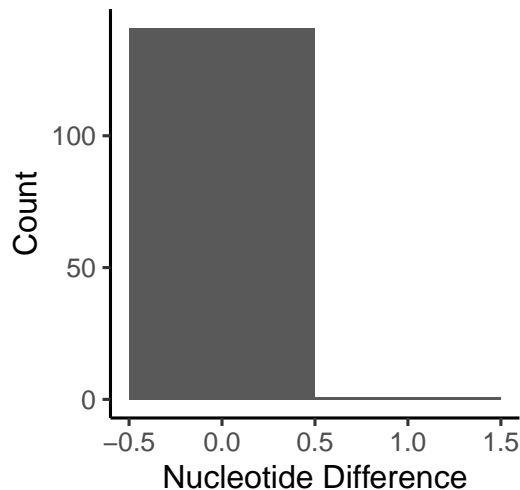
### TRBV5-4\*ap01

6647 sequences assigned  
6611 (99.5%) exact matches, in which:  
6526 unique CDR3  
13 unique J



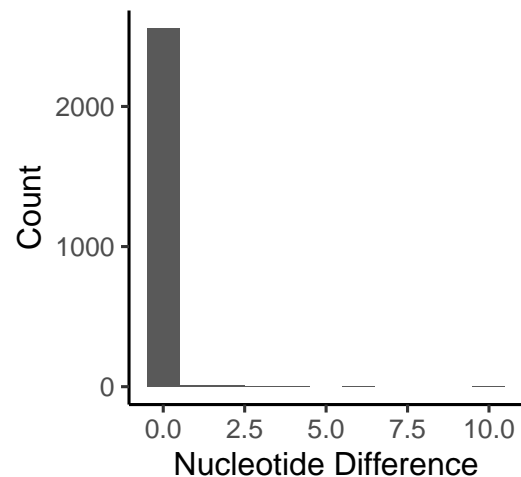
### TRBV5-7\*ap01

142 sequences assigned  
141 (99.3%) exact matches, in which:  
137 unique CDR3  
13 unique J



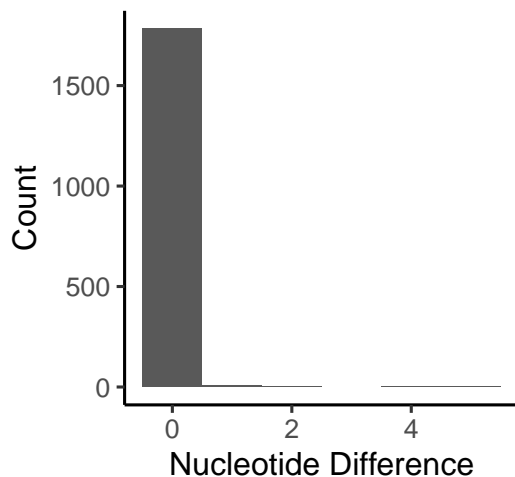
### TRBV6-4\*ap01

2586 sequences assigned  
2557 (98.9%) exact matches, in which:  
2531 unique CDR3  
13 unique J



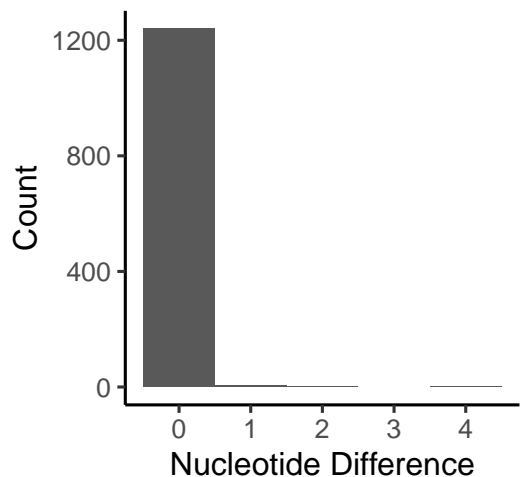
### TRBV5-5\*ap01

1794 sequences assigned  
1783 (99.4%) exact matches, in which:  
1776 unique CDR3  
13 unique J



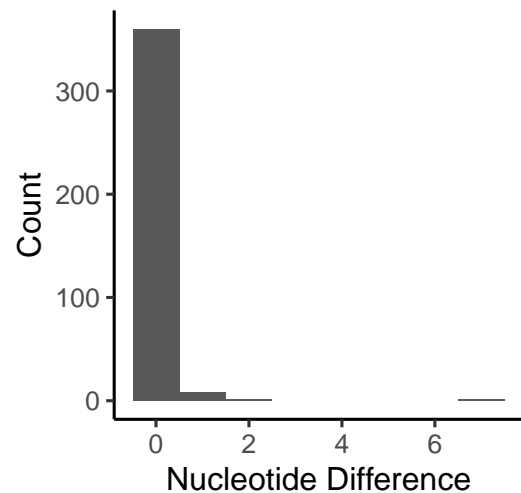
### TRBV5-8\*ap01

1248 sequences assigned  
1240 (99.4%) exact matches, in which:  
1232 unique CDR3  
13 unique J



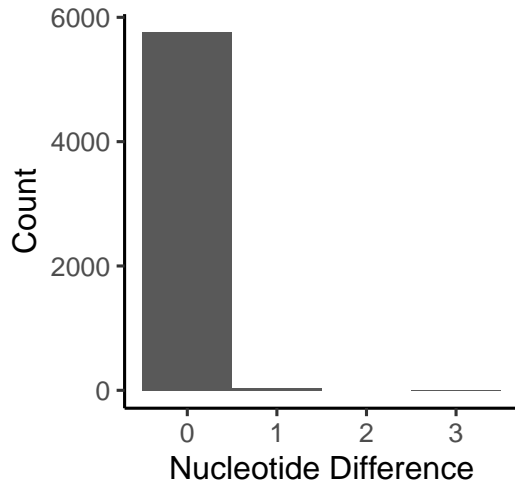
### TRBV6-7\*ap01

370 sequences assigned  
360 (97.3%) exact matches, in which:  
356 unique CDR3  
13 unique J



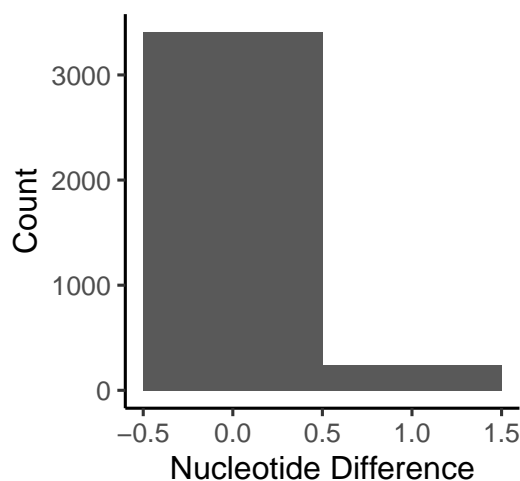
### TRBV5-6\*ap01

5804 sequences assigned  
5763 (99.3%) exact matches, in which:  
5633 unique CDR3  
13 unique J



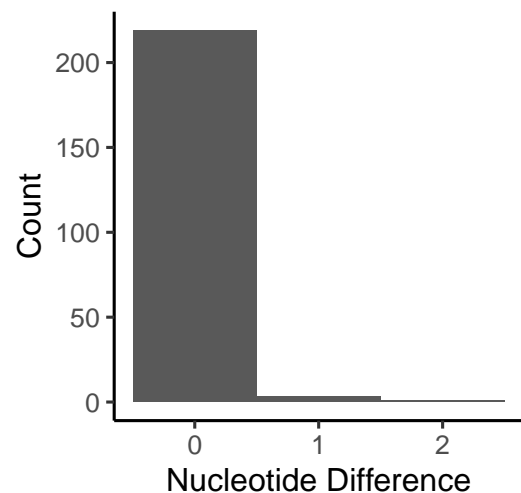
### TRBV6-1\*ap01

3647 sequences assigned  
3408 (93.4%) exact matches, in which:  
3357 unique CDR3  
13 unique J



### TRBV6-8\*ap01

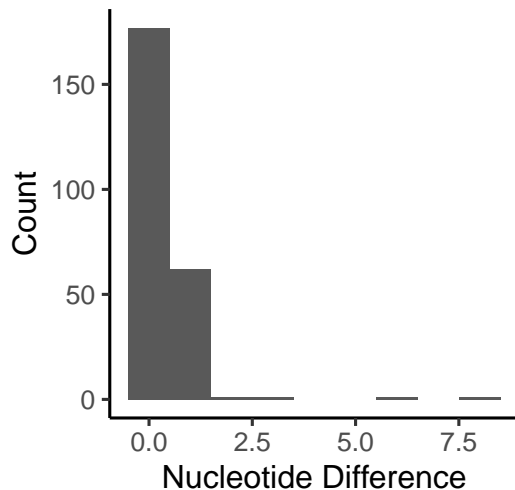
223 sequences assigned  
219 (98.2%) exact matches, in which:  
215 unique CDR3  
13 unique J





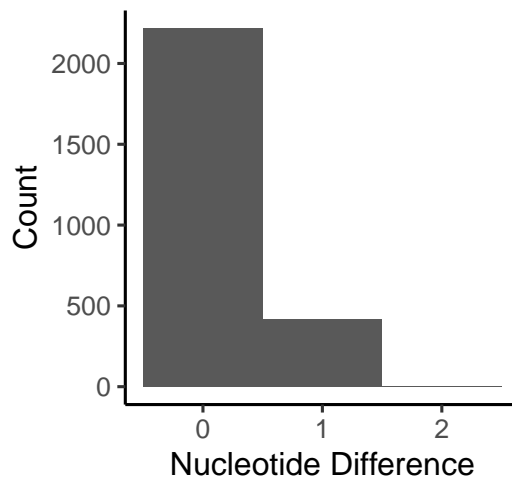
### TRBV6–9\*ap01

243 sequences assigned  
177 (72.8%) exact matches, in which:  
175 unique CDR3  
12 unique J



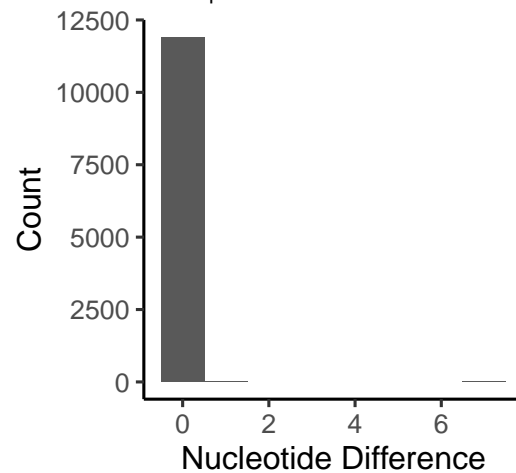
### TRBV6–56\*ap02

2633 sequences assigned  
2217 (84.2%) exact matches, in which:  
2183 unique CDR3  
13 unique J



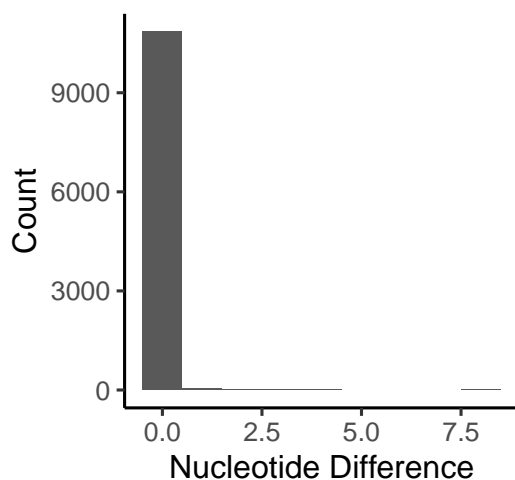
### TRBV7–2\*ap01

11936 sequences assigned  
11906 (99.7%) exact matches, in which:  
11811 unique CDR3  
13 unique J



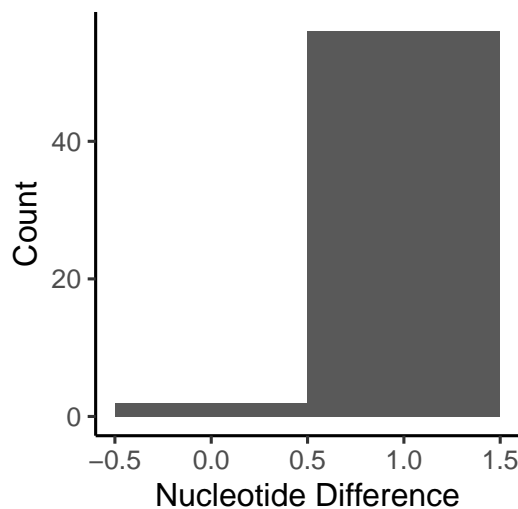
### TRBV6–23\*ap01

10913 sequences assigned  
10848 (99.4%) exact matches, in which:  
10654 unique CDR3  
13 unique J



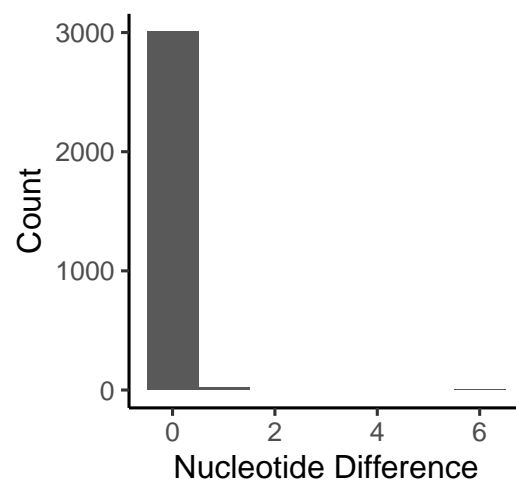
### TRBV7–1\*ap01\_T296C

58 sequences assigned  
2 (3.4%) exact matches, in which:  
2 unique CDR3  
2 unique J



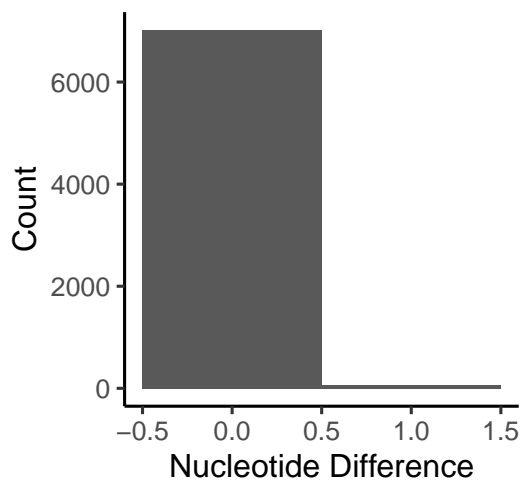
### TRBV7–3\*ap01

3030 sequences assigned  
3007 (99.2%) exact matches, in which:  
2988 unique CDR3  
13 unique J



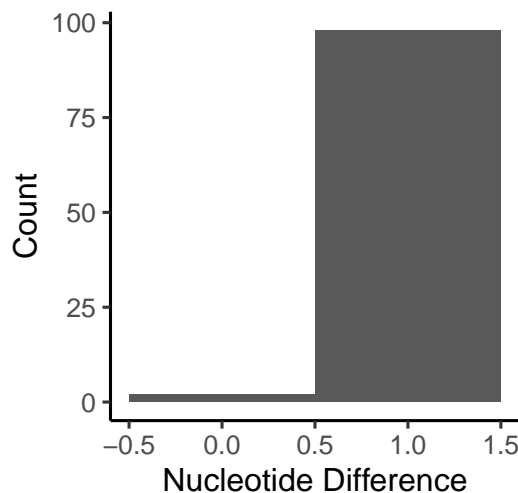
### TRBV6–56\*ap01

7084 sequences assigned  
7019 (99.1%) exact matches, in which:  
6902 unique CDR3  
13 unique J



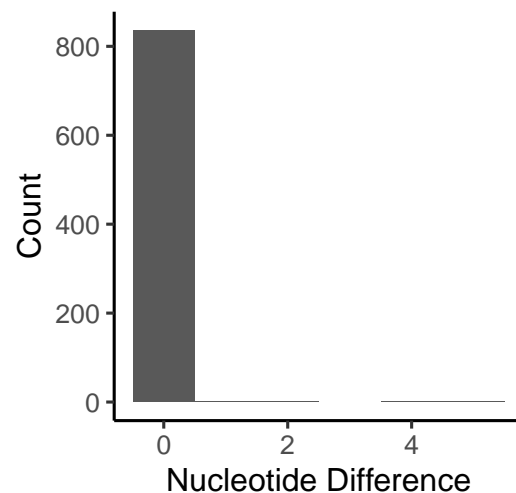
### TRBV7–1\*ap01\_T296C\_()

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



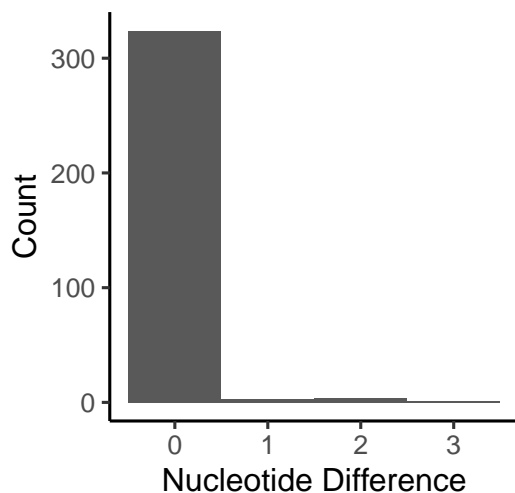
### TRBV7–3\*ap02

840 sequences assigned  
836 (99.5%) exact matches, in which:  
828 unique CDR3  
13 unique J



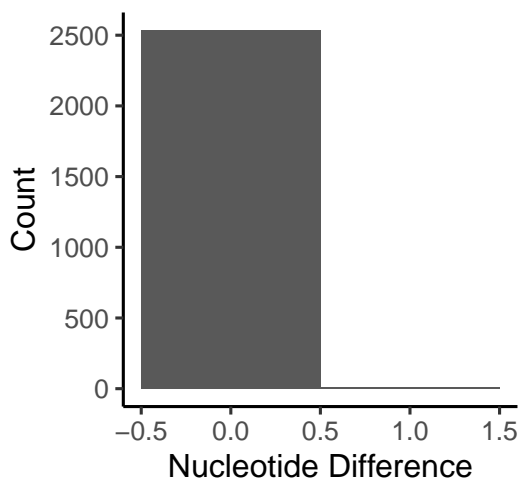
### TRBV7-4\*ap01

332 sequences assigned  
324 (97.6%) exact matches, in which:  
321 unique CDR3  
13 unique J



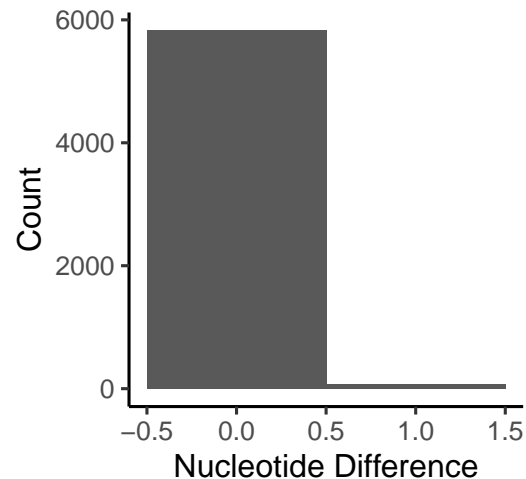
### TRBV7-8\*ap01

2542 sequences assigned  
2534 (99.7%) exact matches, in which:  
2513 unique CDR3  
13 unique J



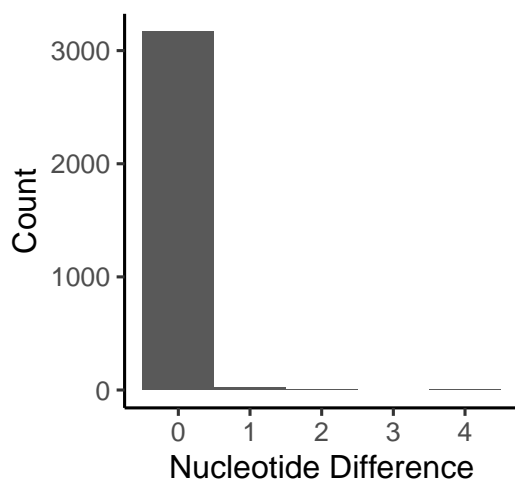
### TRBV29-1\*ap01

5895 sequences assigned  
5828 (98.9%) exact matches, in which:  
5686 unique CDR3  
13 unique J



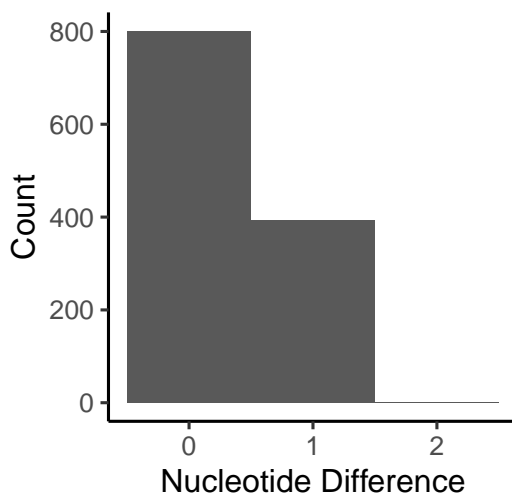
### TRBV7-6\*ap01

3187 sequences assigned  
3167 (99.4%) exact matches, in which:  
3136 unique CDR3  
13 unique J



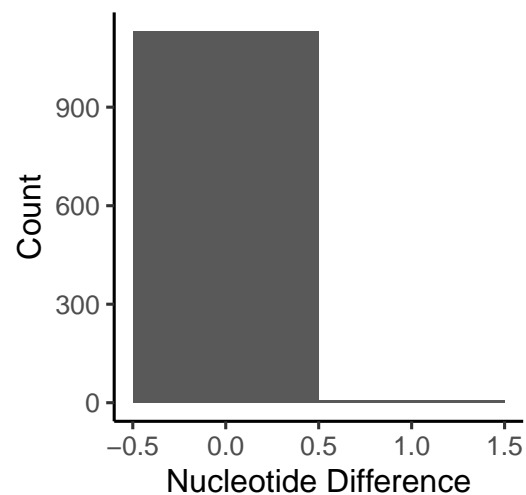
### TRBV7-8\*ap03

1195 sequences assigned  
801 (67%) exact matches, in which:  
791 unique CDR3  
13 unique J



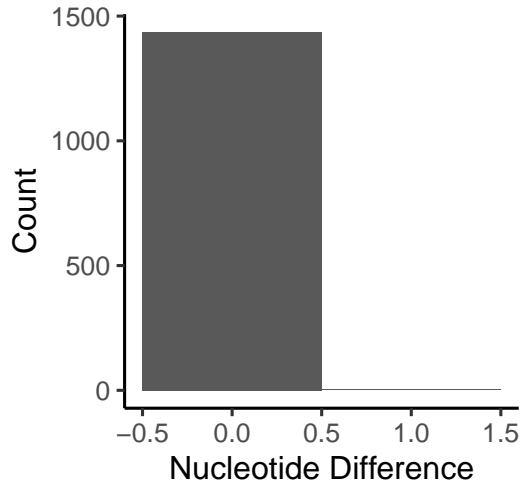
### TRBV29-1\*ap02

1141 sequences assigned  
1132 (99.2%) exact matches, in which:  
1100 unique CDR3  
13 unique J



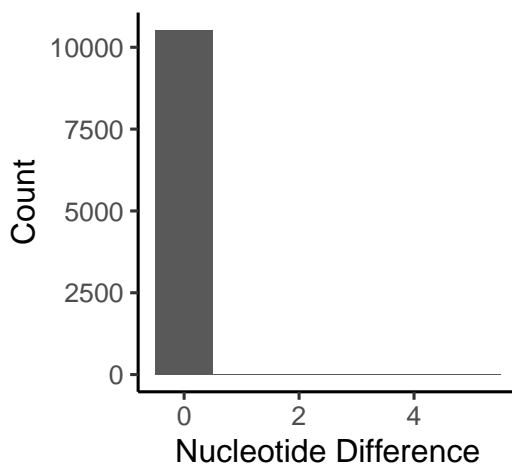
### TRBV7-7\*ap01\_C315T

1439 sequences assigned  
1436 (99.8%) exact matches, in which:  
1419 unique CDR3  
13 unique J

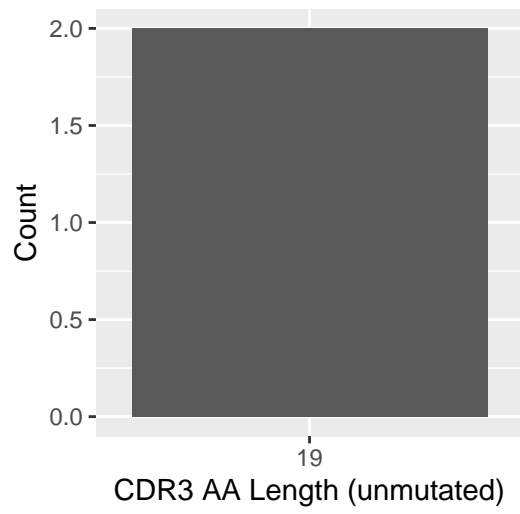


### TRBV7-9\*ap01

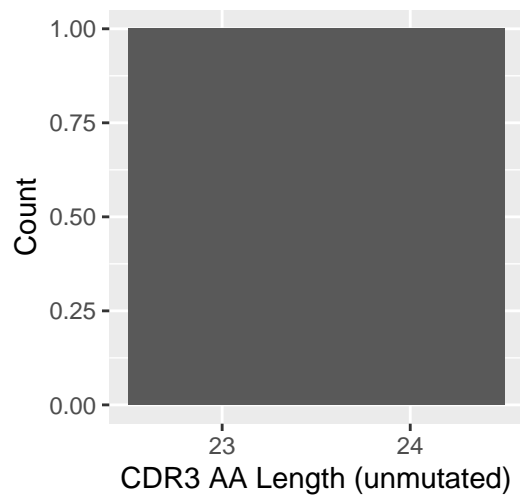
10568 sequences assigned  
10535 (99.7%) exact matches, in which:  
10456 unique CDR3  
13 unique J



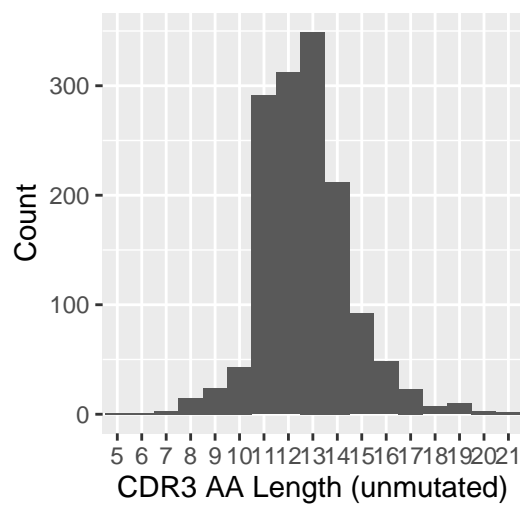
TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]