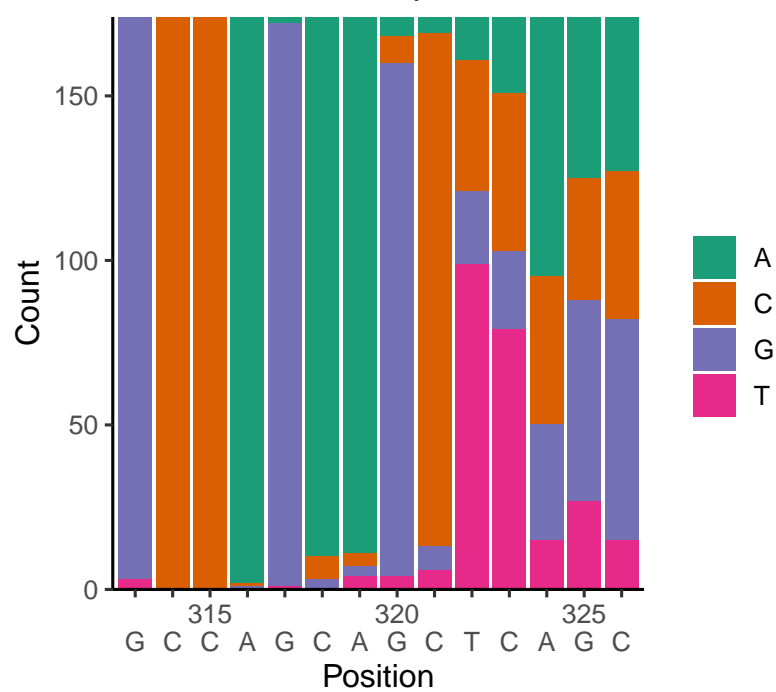
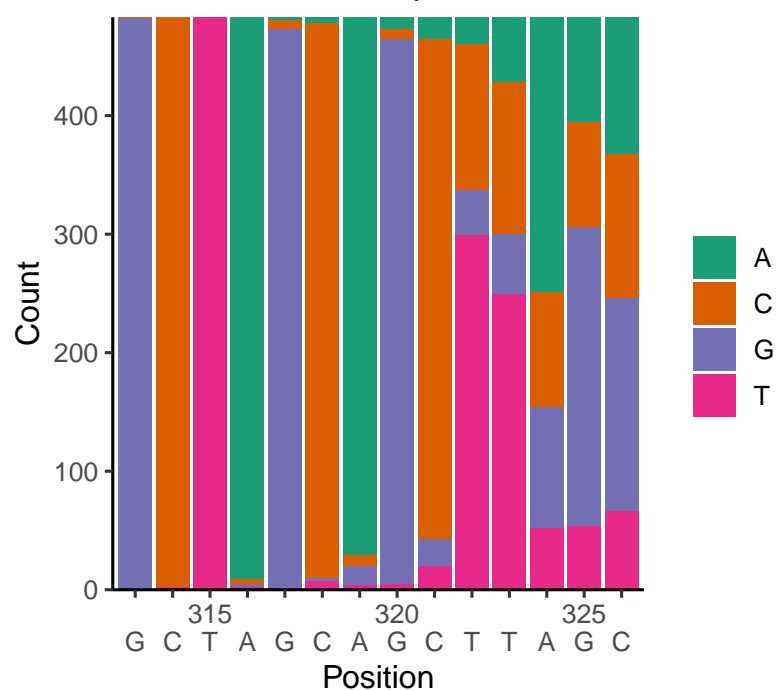


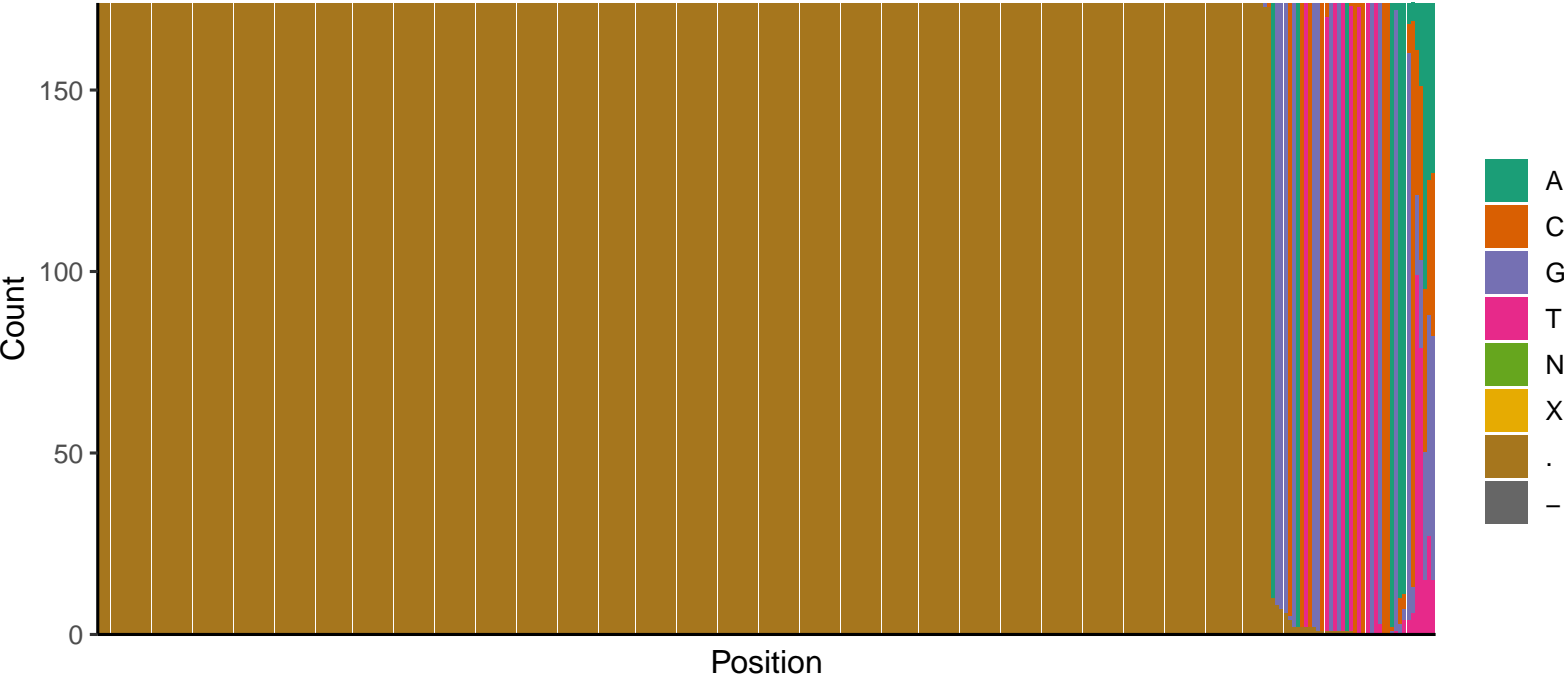
Gene TRBV7-1\*ap01\_G291C\_T296C



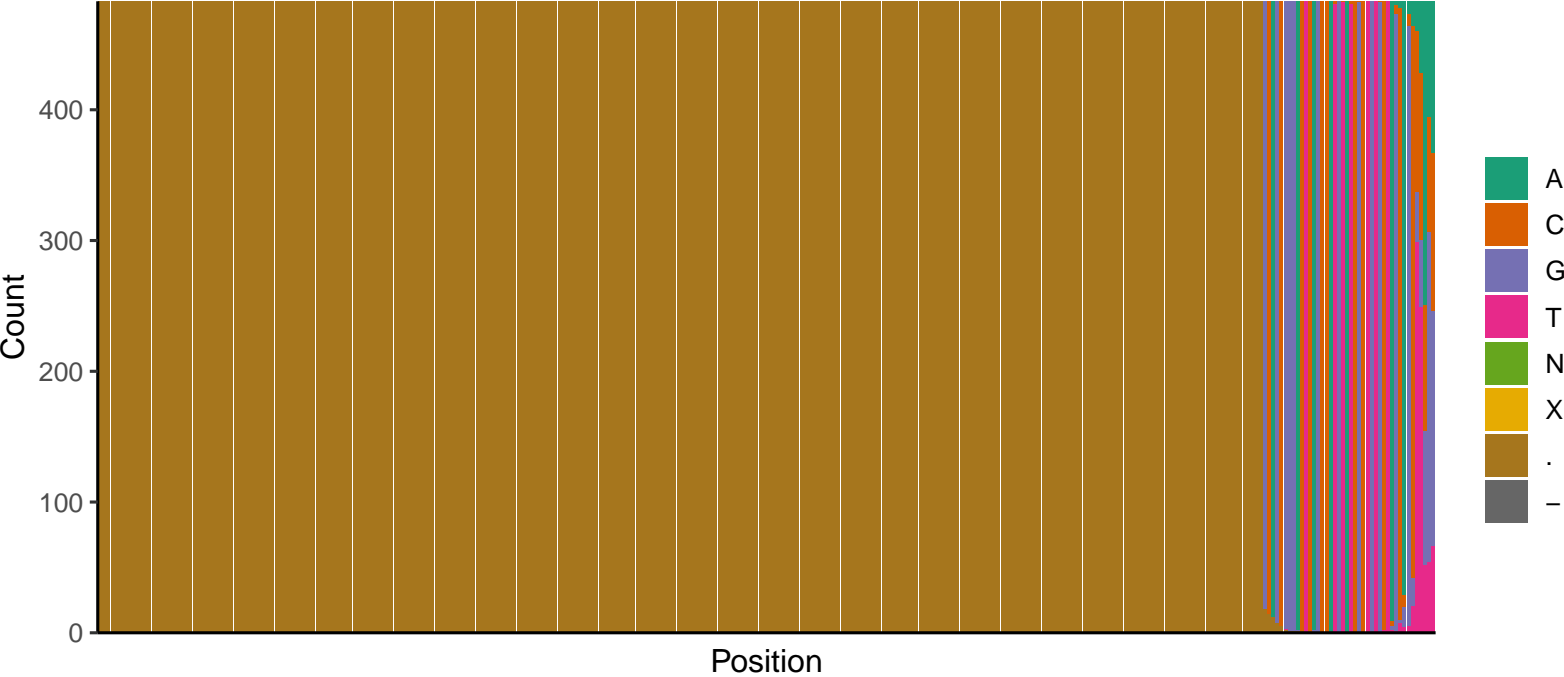
Gene TRBV7-7\*ap01\_C315T



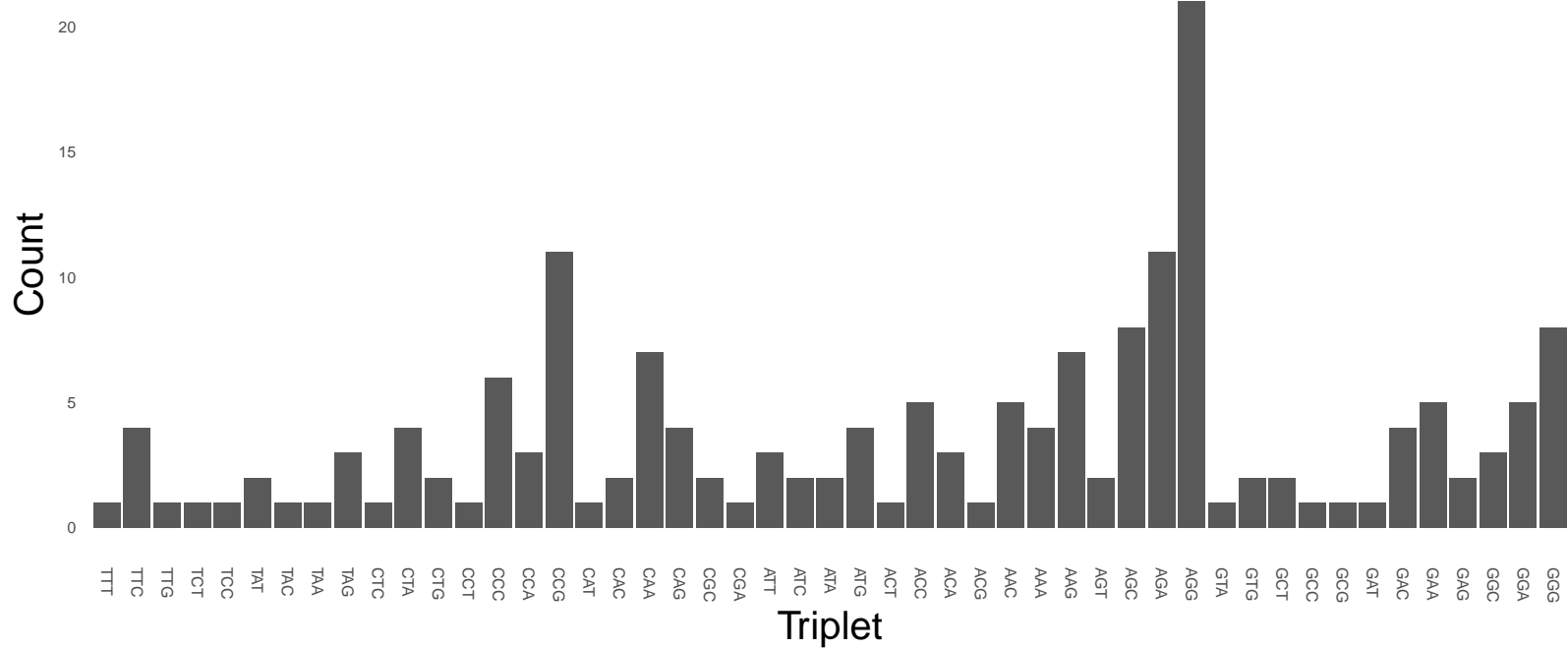
Gene TRBV7-1\*ap01\_G291C\_T296C



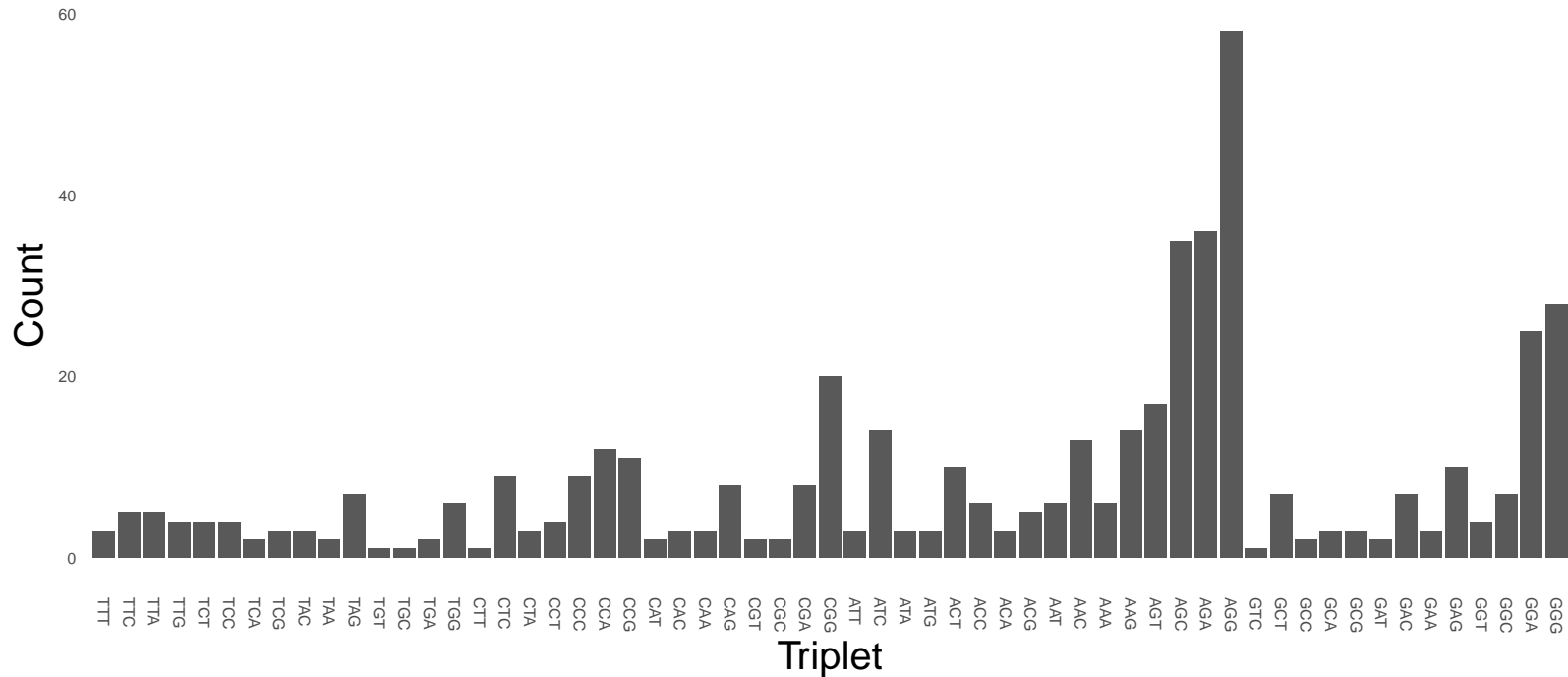
Gene TRBV7-7\*ap01\_C315T



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

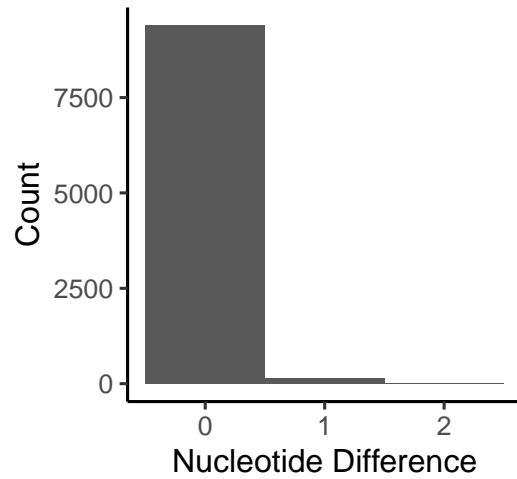


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



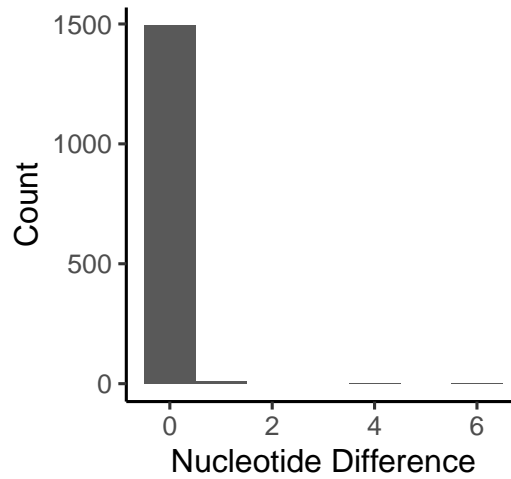
### TRBV20-1\*ap01

9533 sequences assigned  
9392 (98.5%) exact matches, in which:  
9174 unique CDR3  
13 unique J



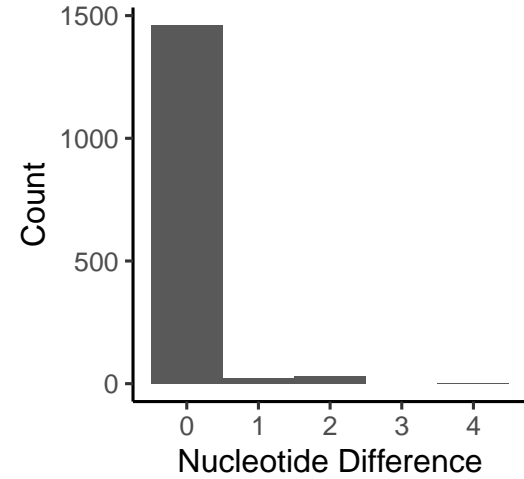
### TRBV10-2\*ap01

1506 sequences assigned  
1494 (99.2%) exact matches, in which:  
1454 unique CDR3  
13 unique J



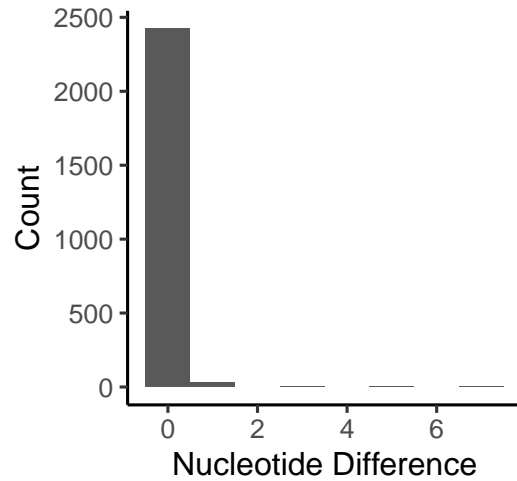
### TRBV13\*ap01

1514 sequences assigned  
1460 (96.4%) exact matches, in which:  
1429 unique CDR3  
13 unique J



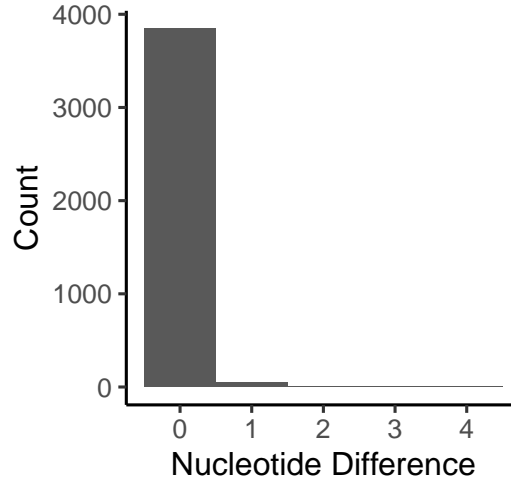
### TRBV10-1\*ap01

2456 sequences assigned  
2423 (98.7%) exact matches, in which:  
2378 unique CDR3  
13 unique J



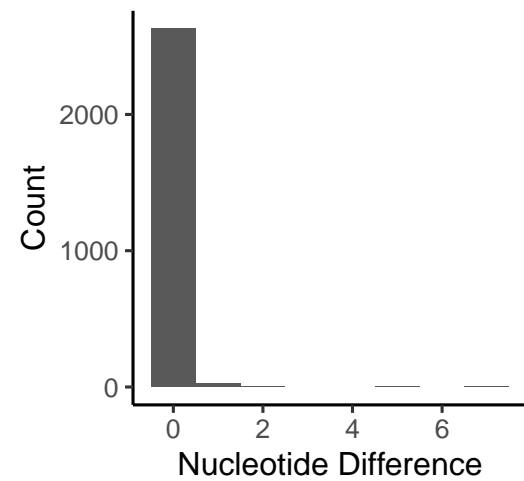
### TRBV10-3\*ap01

3904 sequences assigned  
3845 (98.5%) exact matches, in which:  
3752 unique CDR3  
13 unique J



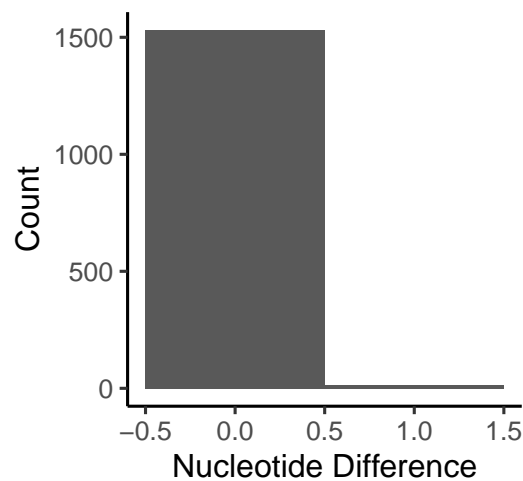
### TRBV14\*ap01

2657 sequences assigned  
2629 (98.9%) exact matches, in which:  
2563 unique CDR3  
13 unique J



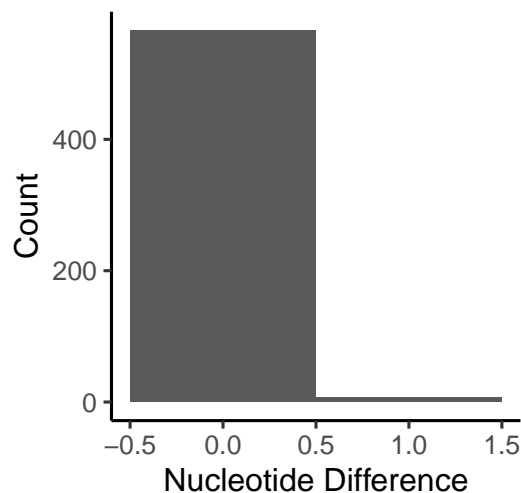
### TRBV20-1\*ap02

1544 sequences assigned  
1531 (99.2%) exact matches, in which:  
1494 unique CDR3  
13 unique J



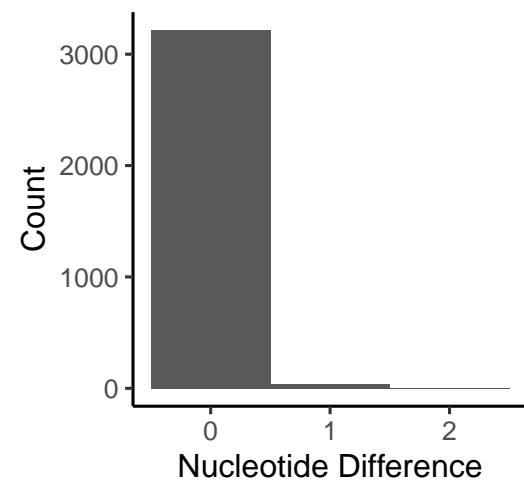
### TRBV1\*ap01

573 sequences assigned  
566 (98.8%) exact matches, in which:  
562 unique CDR3  
13 unique J



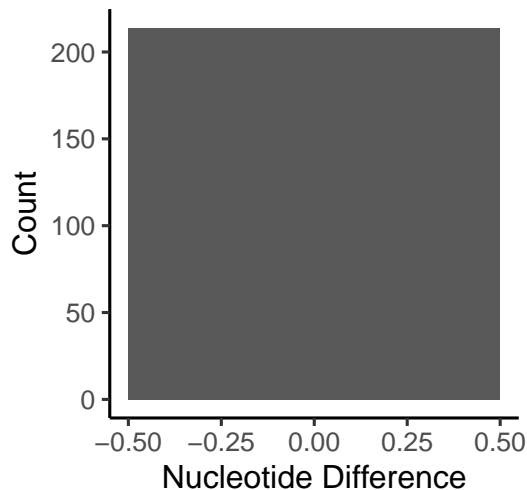
### TRBV15\*ap02

3258 sequences assigned  
3217 (98.7%) exact matches, in which:  
3137 unique CDR3  
13 unique J



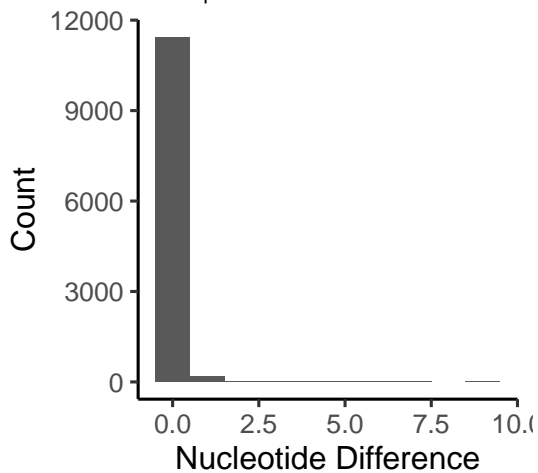
### TRBV16\*ap01

214 sequences assigned  
214 (100%) exact matches, in which:  
210 unique CDR3  
13 unique J



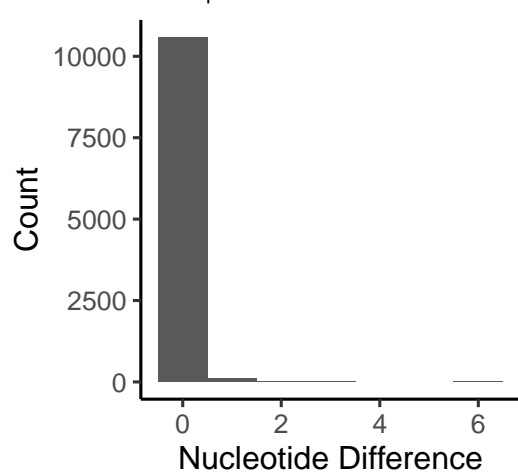
### TRBV19\*ap01

11620 sequences assigned  
11436 (98.4%) exact matches, in which:  
11221 unique CDR3  
13 unique J



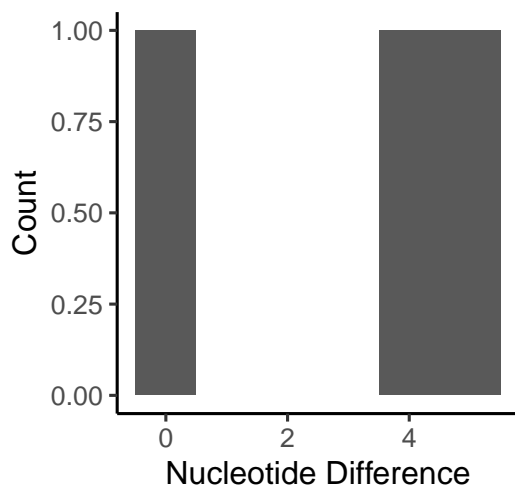
### TRBV28\*ap01

10711 sequences assigned  
10588 (98.9%) exact matches, in which:  
10323 unique CDR3  
13 unique J



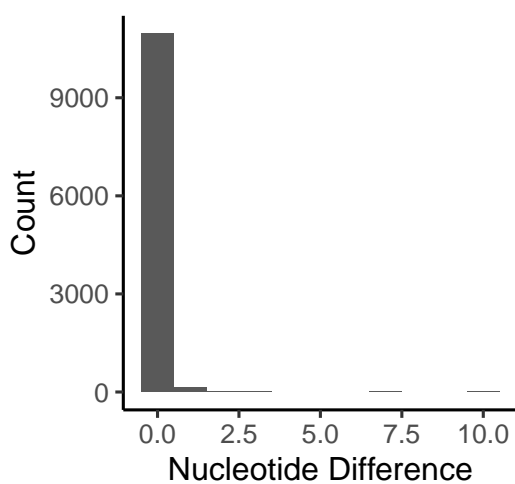
### TRBV17\*ap01

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



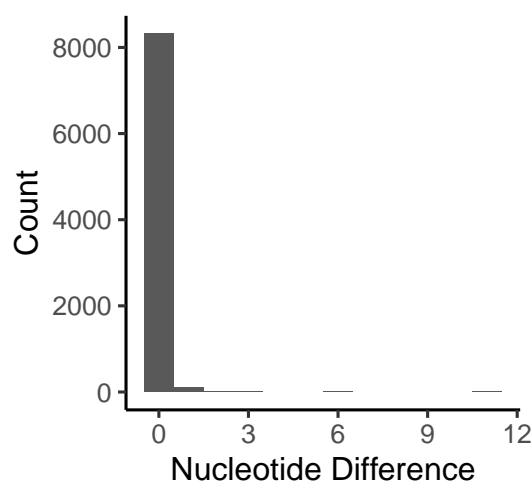
### TRBV2\*ap01

11094 sequences assigned  
10958 (98.8%) exact matches, in which:  
10751 unique CDR3  
13 unique J



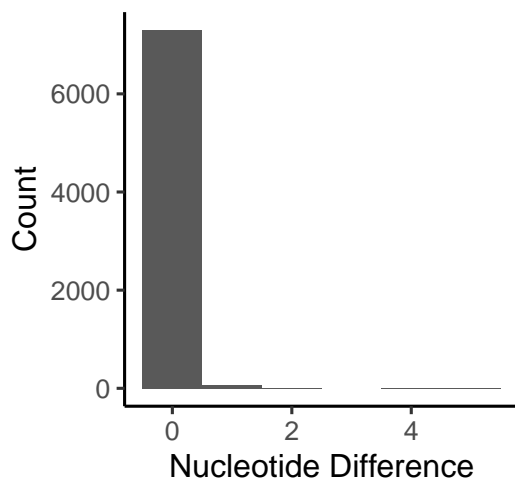
### TRBV30\*ap01

8442 sequences assigned  
8318 (98.5%) exact matches, in which:  
8223 unique CDR3  
13 unique J



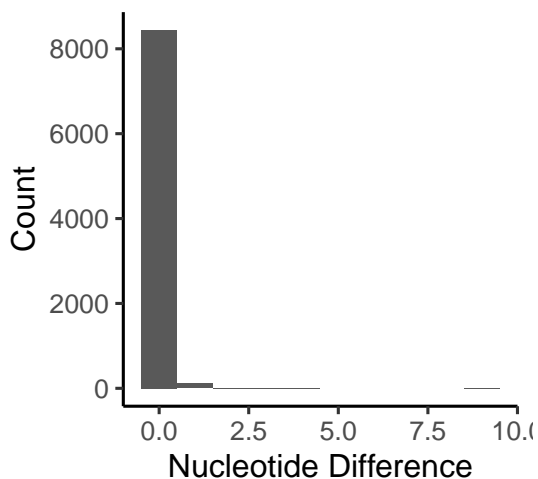
### TRBV18\*ap01

7367 sequences assigned  
7300 (99.1%) exact matches, in which:  
7154 unique CDR3  
13 unique J



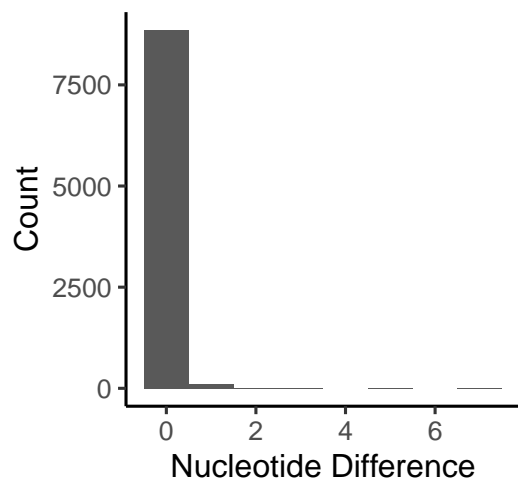
### TRBV27\*ap01

8569 sequences assigned  
8442 (98.5%) exact matches, in which:  
8238 unique CDR3  
13 unique J



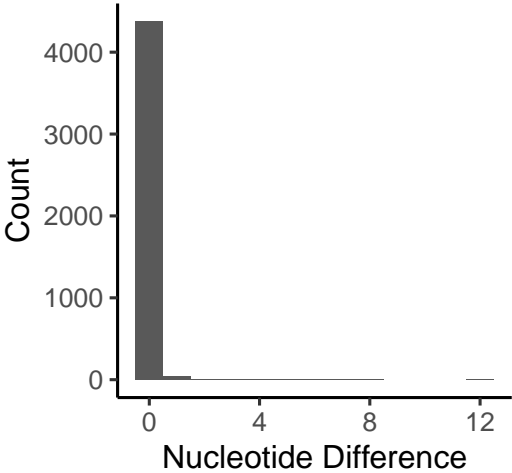
### TRBV9\*ap01

8973 sequences assigned  
8855 (98.7%) exact matches, in which:  
8683 unique CDR3  
13 unique J



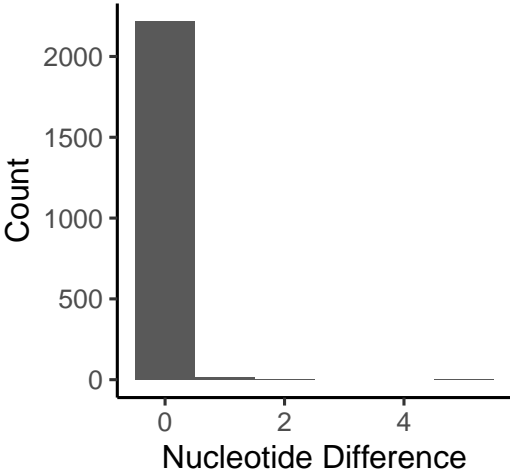
TRBV21-1\*ap01

4451 sequences assigned  
4376 (98.3%) exact matches, in which:  
4282 unique CDR3  
13 unique J



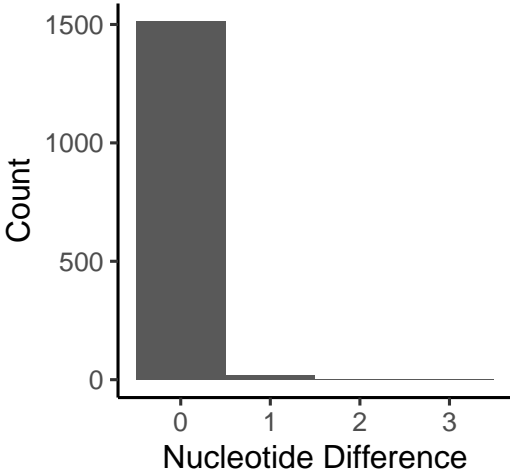
TRBV11-3\*ap01

2234 sequences assigned  
2217 (99.2%) exact matches, in which:  
2171 unique CDR3  
13 unique J



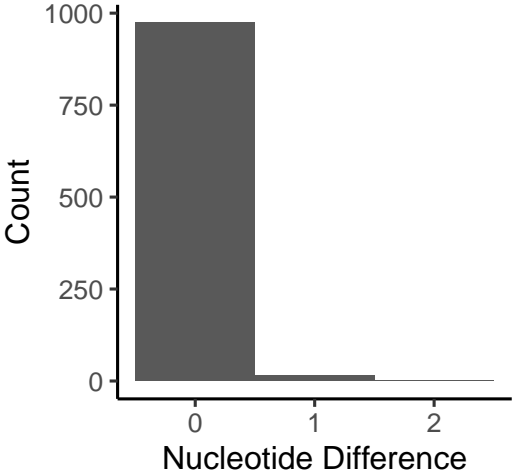
TRBV12-5\*ap01

1537 sequences assigned  
1513 (98.4%) exact matches, in which:  
1478 unique CDR3  
13 unique J



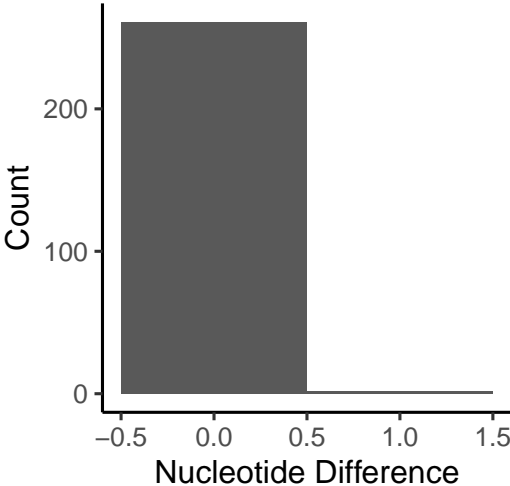
TRBV11-1\*ap01

991 sequences assigned  
974 (98.3%) exact matches, in which:  
947 unique CDR3  
13 unique J



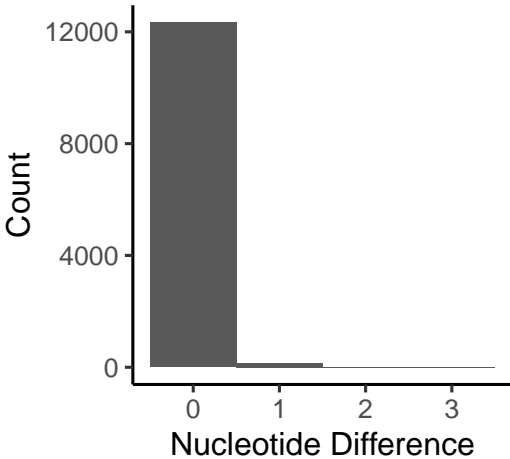
TRBV12-1\*ap01

263 sequences assigned  
261 (99.2%) exact matches, in which:  
254 unique CDR3  
13 unique J



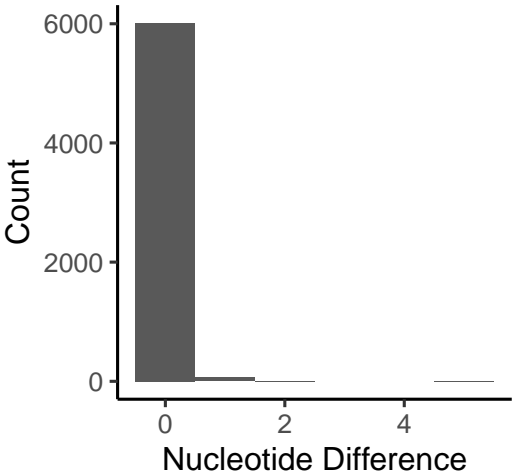
TRBV12-34\*ap01

12488 sequences assigned  
12335 (98.8%) exact matches, in which:  
12053 unique CDR3  
13 unique J



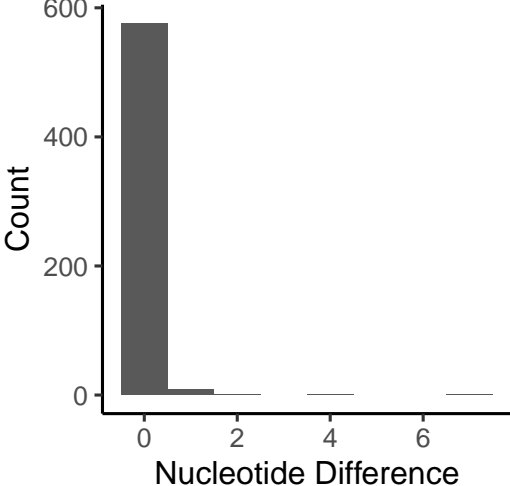
TRBV11-2\*ap01

6080 sequences assigned  
6012 (98.9%) exact matches, in which:  
5880 unique CDR3  
13 unique J



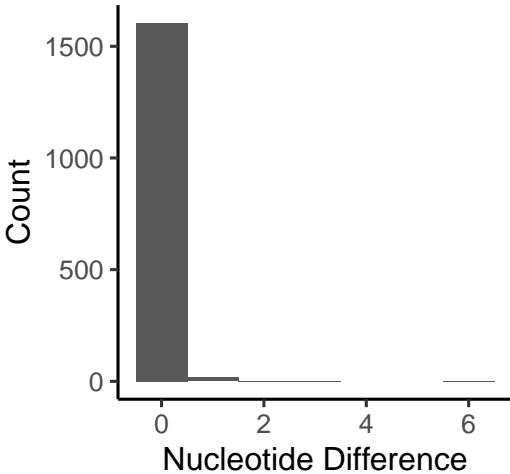
TRBV12-2\*ap01

587 sequences assigned  
576 (98.1%) exact matches, in which:  
561 unique CDR3  
13 unique J



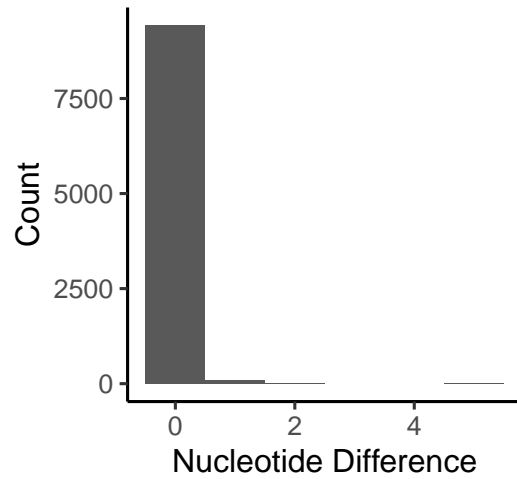
TRBV23-1\*ap01

1626 sequences assigned  
1604 (98.6%) exact matches, in which:  
1568 unique CDR3  
13 unique J



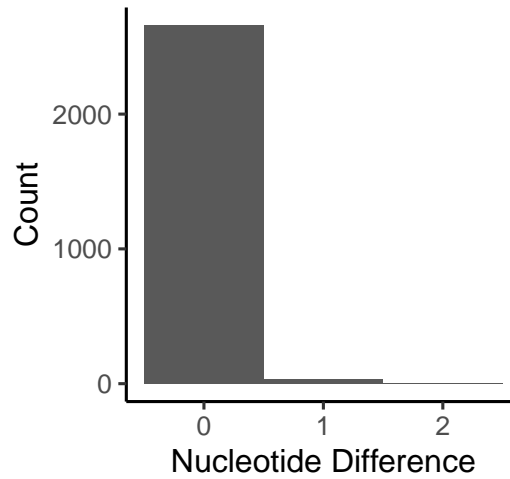
### TRBV3-12\*ap01

9515 sequences assigned  
9422 (99%) exact matches, in which:  
9237 unique CDR3  
13 unique J



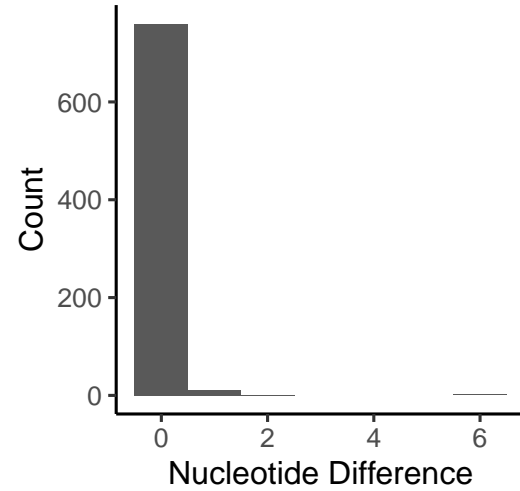
### TRBV4-2\*ap01

2696 sequences assigned  
2658 (98.6%) exact matches, in which:  
2613 unique CDR3  
13 unique J



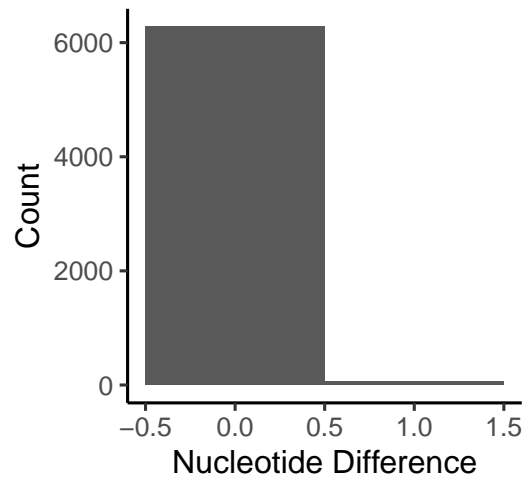
### TRBV5-3\*ap01

774 sequences assigned  
760 (98.2%) exact matches, in which:  
748 unique CDR3  
13 unique J



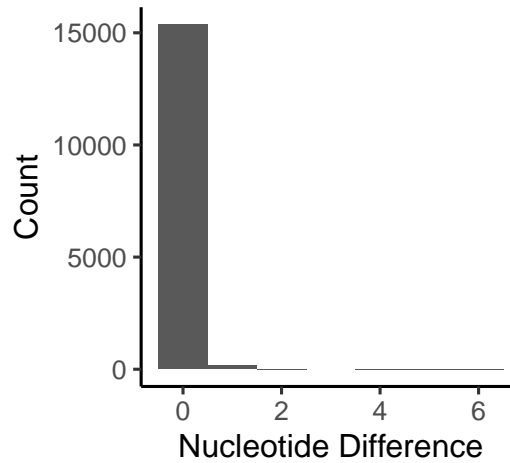
### TRBV4-1\*ap01

6332 sequences assigned  
6279 (99.2%) exact matches, in which:  
6139 unique CDR3  
13 unique J



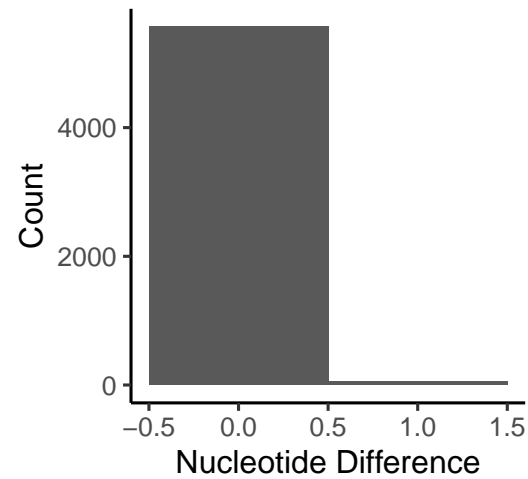
### TRBV5-1\*ap01

15546 sequences assigned  
15371 (98.9%) exact matches, in which:  
14982 unique CDR3  
13 unique J



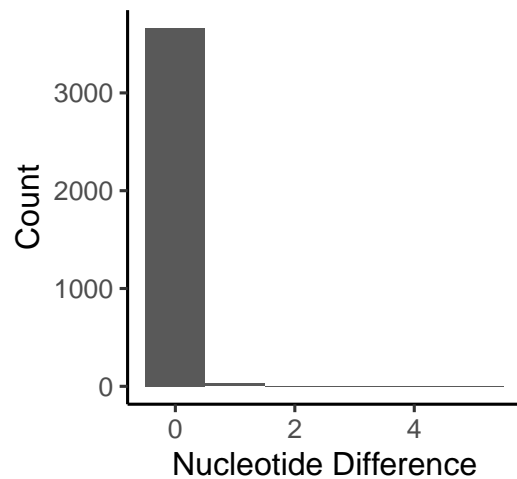
### TRBV5-4\*ap01

5630 sequences assigned  
5568 (98.9%) exact matches, in which:  
5458 unique CDR3  
13 unique J



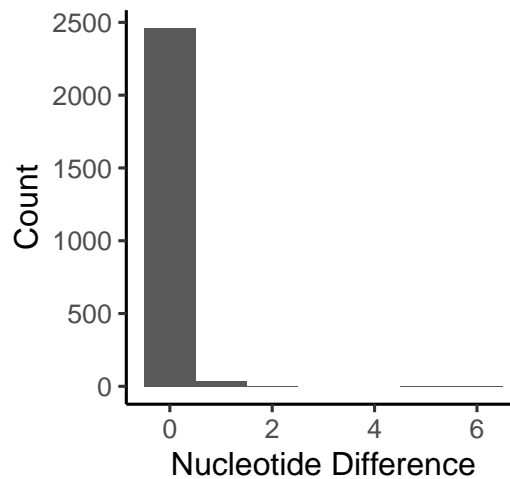
### TRBV24-1\*ap01

3703 sequences assigned  
3663 (98.9%) exact matches, in which:  
3610 unique CDR3  
13 unique J



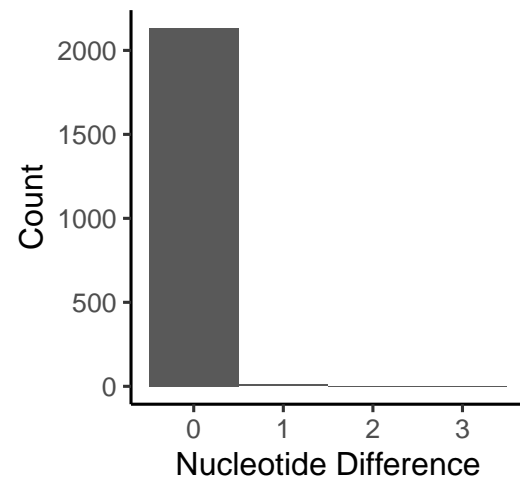
### TRBV25-1\*ap01

2502 sequences assigned  
2461 (98.4%) exact matches, in which:  
2407 unique CDR3  
13 unique J



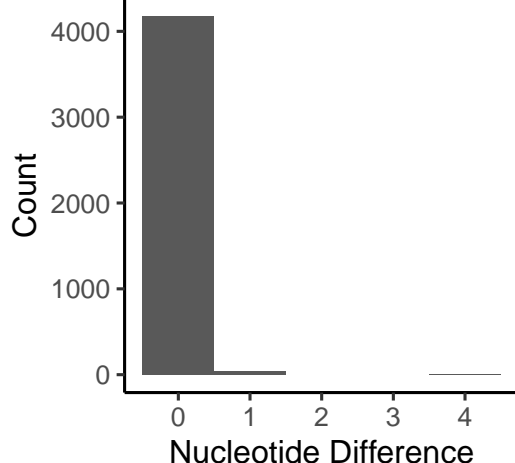
### TRBV5-5\*ap01

2145 sequences assigned  
2133 (99.4%) exact matches, in which:  
2095 unique CDR3  
13 unique J



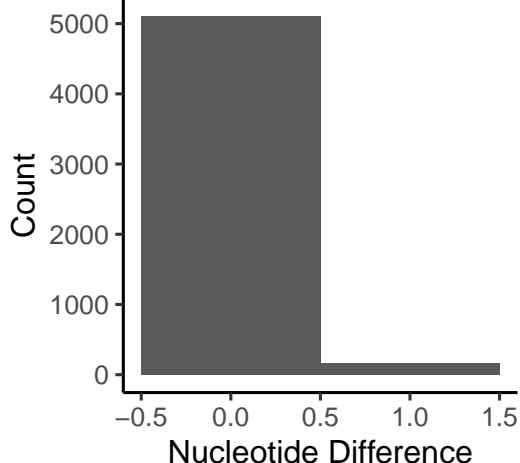
### TRBV5-6\*ap01

4212 sequences assigned  
4174 (99.1%) exact matches, in which:  
4093 unique CDR3  
13 unique J



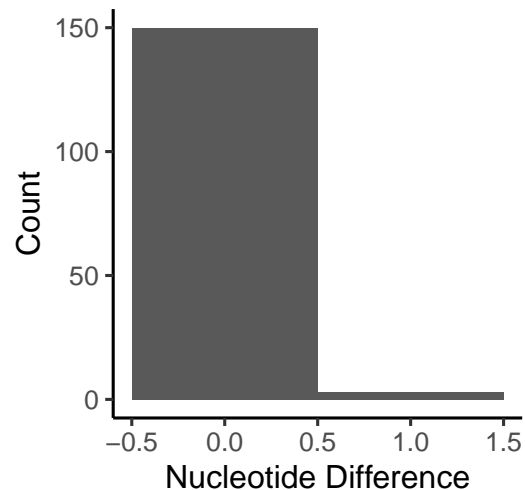
### TRBV6-1\*ap01

5267 sequences assigned  
5103 (96.9%) exact matches, in which:  
4965 unique CDR3  
13 unique J



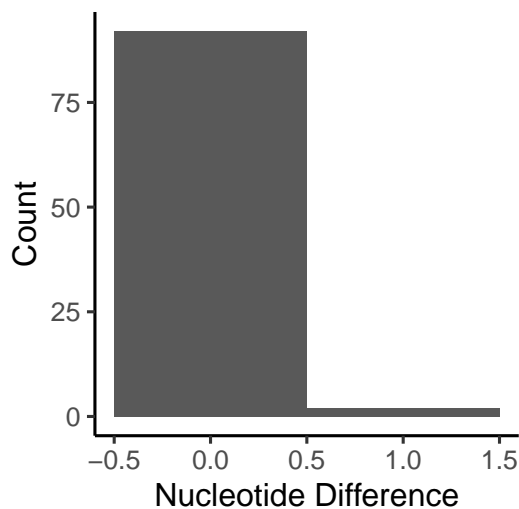
### TRBV6-8\*ap01

153 sequences assigned  
150 (98%) exact matches, in which:  
148 unique CDR3  
13 unique J



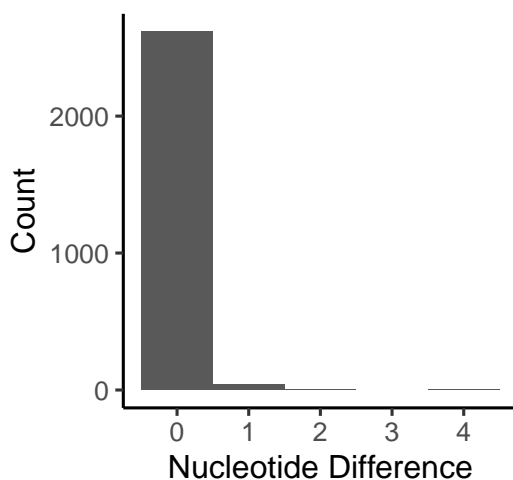
### TRBV5-7\*ap01

94 sequences assigned  
92 (97.9%) exact matches, in which:  
90 unique CDR3  
12 unique J



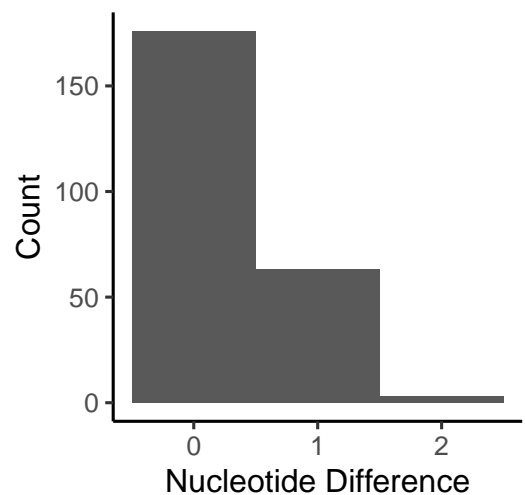
### TRBV6-4\*ap01

2659 sequences assigned  
2616 (98.4%) exact matches, in which:  
2579 unique CDR3  
13 unique J



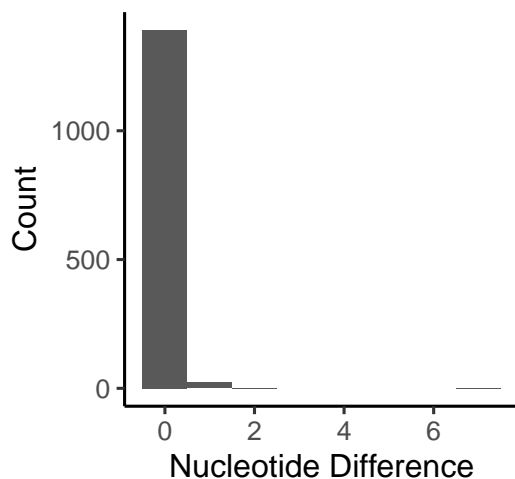
### TRBV6-9\*ap01

242 sequences assigned  
176 (72.7%) exact matches, in which:  
172 unique CDR3  
13 unique J



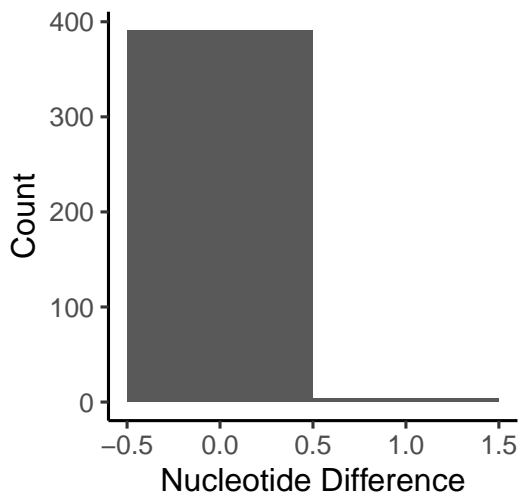
### TRBV5-8\*ap01

1417 sequences assigned  
1391 (98.2%) exact matches, in which:  
1368 unique CDR3  
13 unique J



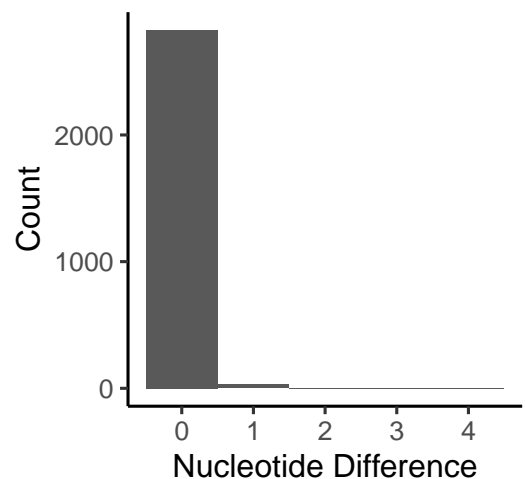
### TRBV6-7\*ap01

395 sequences assigned  
391 (99%) exact matches, in which:  
382 unique CDR3  
13 unique J



### TRBV6-23\*ap01

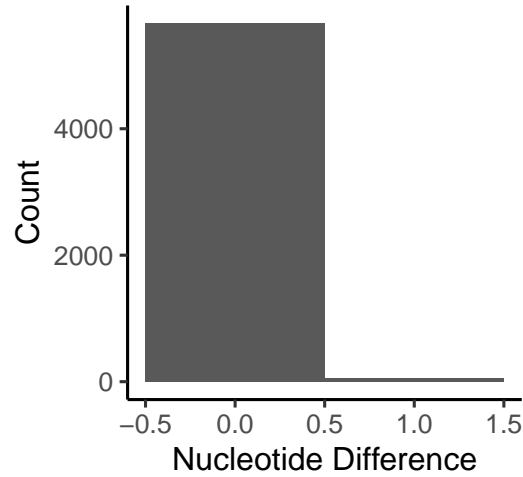
2862 sequences assigned  
2828 (98.8%) exact matches, in which:  
2774 unique CDR3  
13 unique J





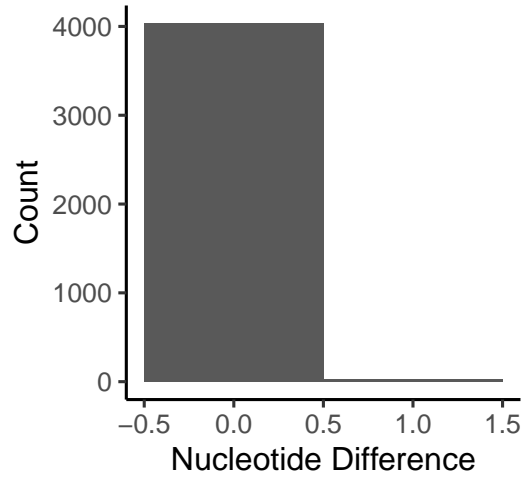
### TRBV6-56\*ap01

5722 sequences assigned  
5666 (99%) exact matches, in which:  
5541 unique CDR3  
13 unique J



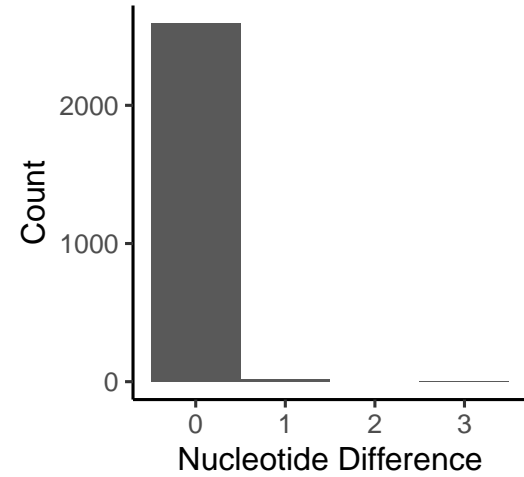
### TRBV7-2\*ap01

4062 sequences assigned  
4034 (99.3%) exact matches, in which:  
3944 unique CDR3  
13 unique J



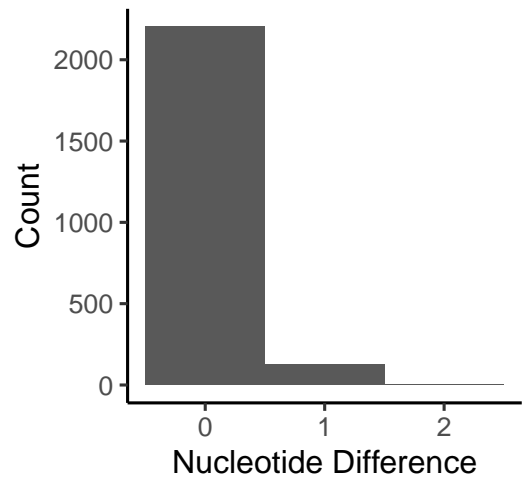
### TRBV7-6\*ap01

2613 sequences assigned  
2593 (99.2%) exact matches, in which:  
2522 unique CDR3  
13 unique J



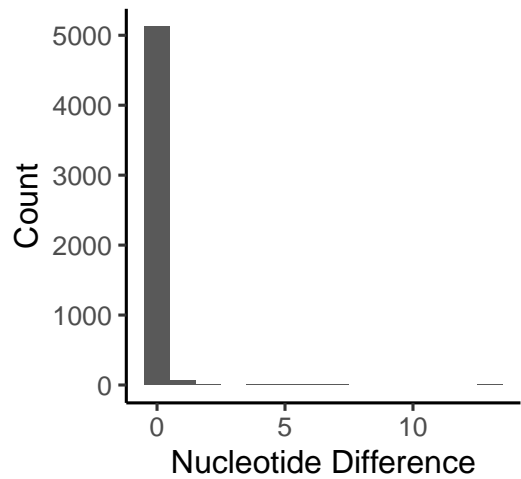
### TRBV6-56\*ap02

2335 sequences assigned  
2203 (94.3%) exact matches, in which:  
2158 unique CDR3  
13 unique J



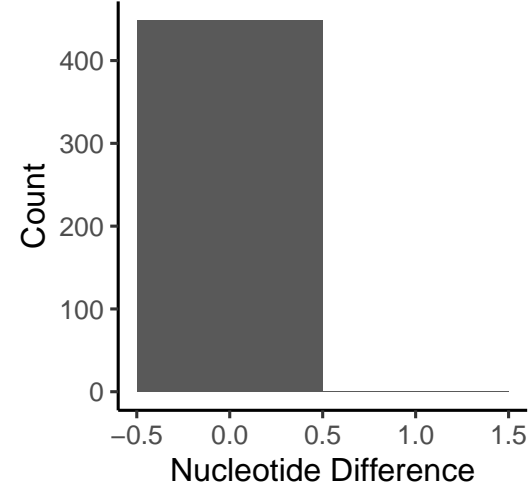
### TRBV7-3\*ap01

5187 sequences assigned  
5122 (98.7%) exact matches, in which:  
5010 unique CDR3  
13 unique J



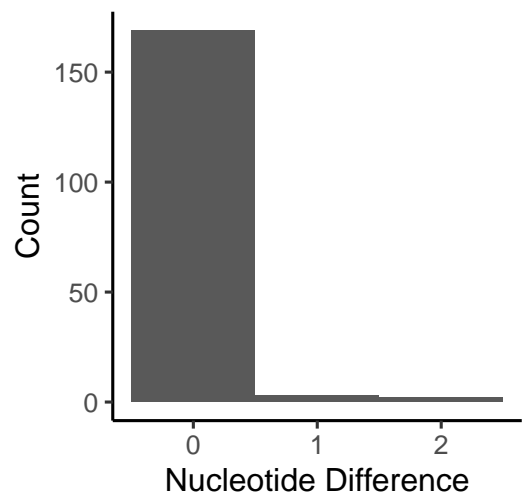
### TRBV7-7\*ap01

450 sequences assigned  
449 (99.8%) exact matches, in which:  
443 unique CDR3  
13 unique J



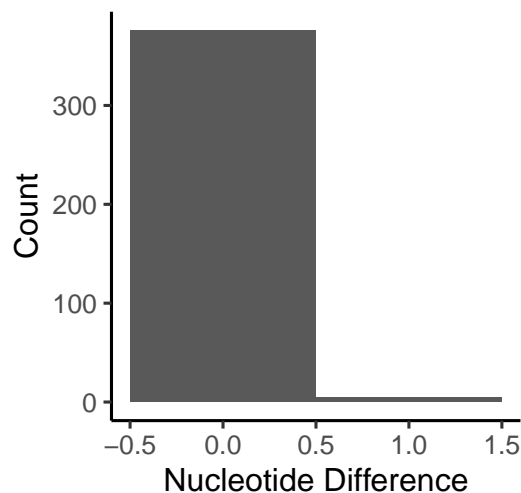
### TRBV7-1\*ap01\_G291C\_

174 sequences assigned  
169 (97.1%) exact matches, in which:  
162 unique CDR3  
13 unique J



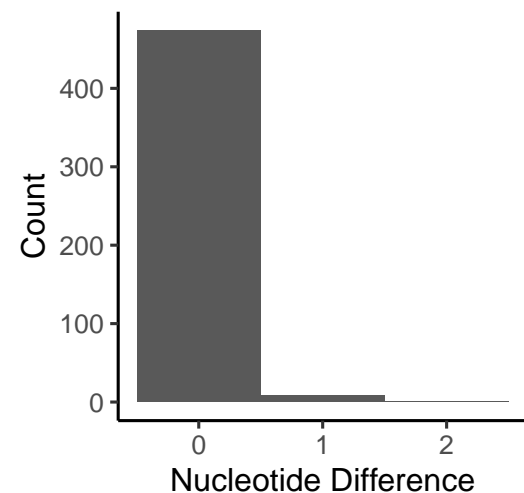
### TRBV7-4\*ap01

381 sequences assigned  
376 (98.7%) exact matches, in which:  
364 unique CDR3  
13 unique J



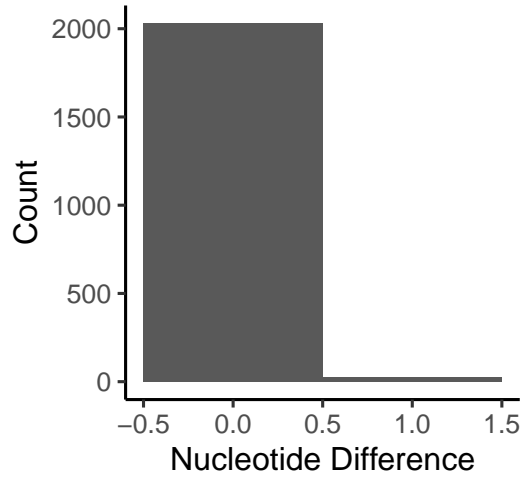
### TRBV7-7\*ap01\_C315T

483 sequences assigned  
474 (98.1%) exact matches, in which:  
465 unique CDR3  
13 unique J



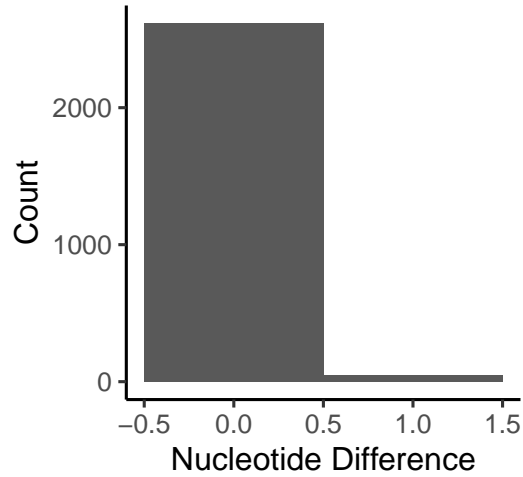
### TRBV7-8\*ap01

2054 sequences assigned  
2030 (98.8%) exact matches, in which:  
1989 unique CDR3  
13 unique J



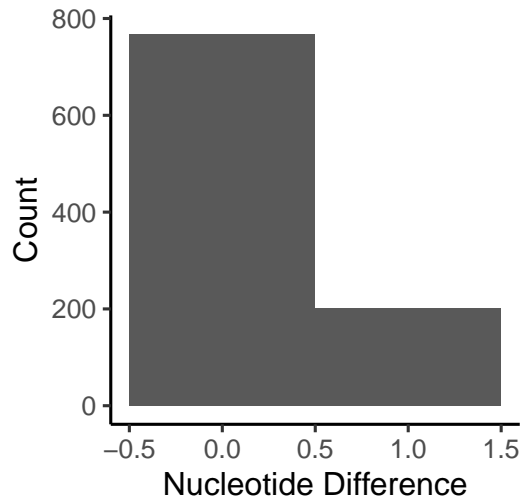
### TRBV29-1\*ap01

2660 sequences assigned  
2615 (98.3%) exact matches, in which:  
2571 unique CDR3  
13 unique J



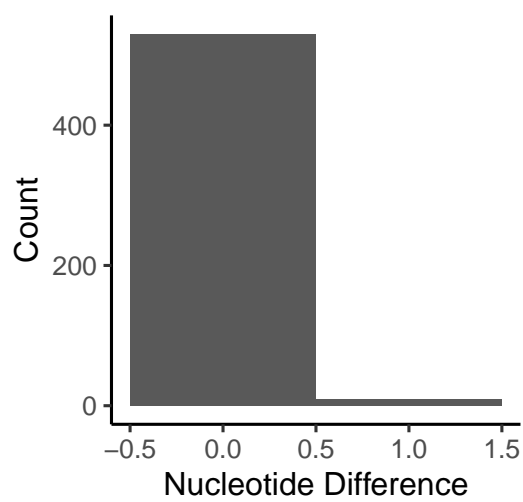
### TRBV7-8\*ap03

969 sequences assigned  
768 (79.3%) exact matches, in which:  
750 unique CDR3  
13 unique J



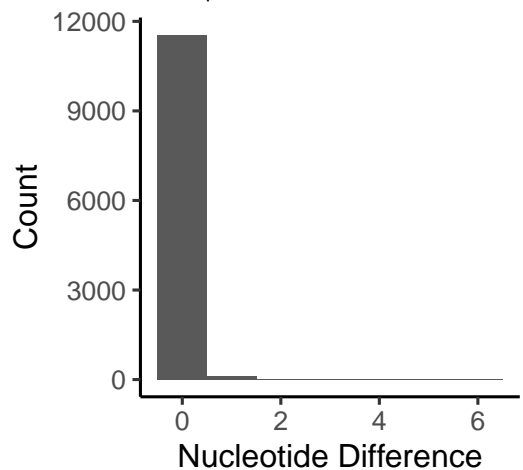
### TRBV29-1\*ap02

539 sequences assigned  
530 (98.3%) exact matches, in which:  
523 unique CDR3  
13 unique J

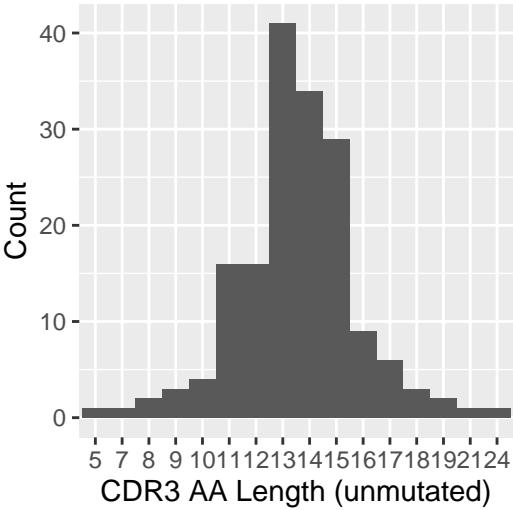


### TRBV7-9\*ap01

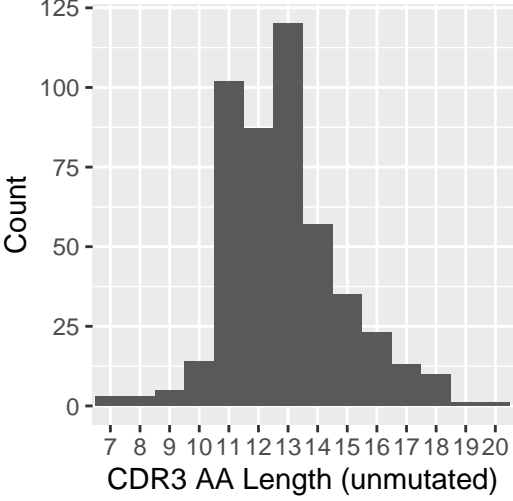
11659 sequences assigned  
11550 (99.1%) exact matches, in which:  
11324 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]