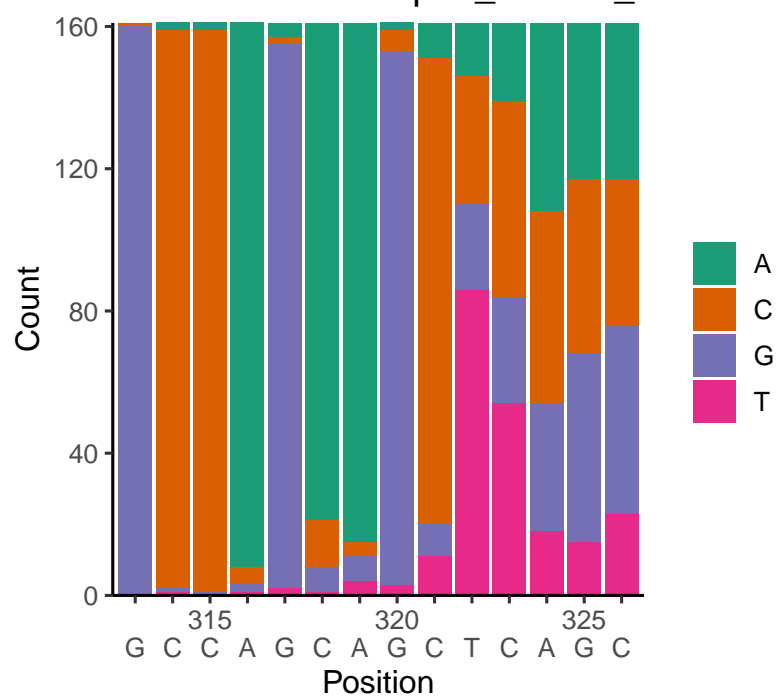
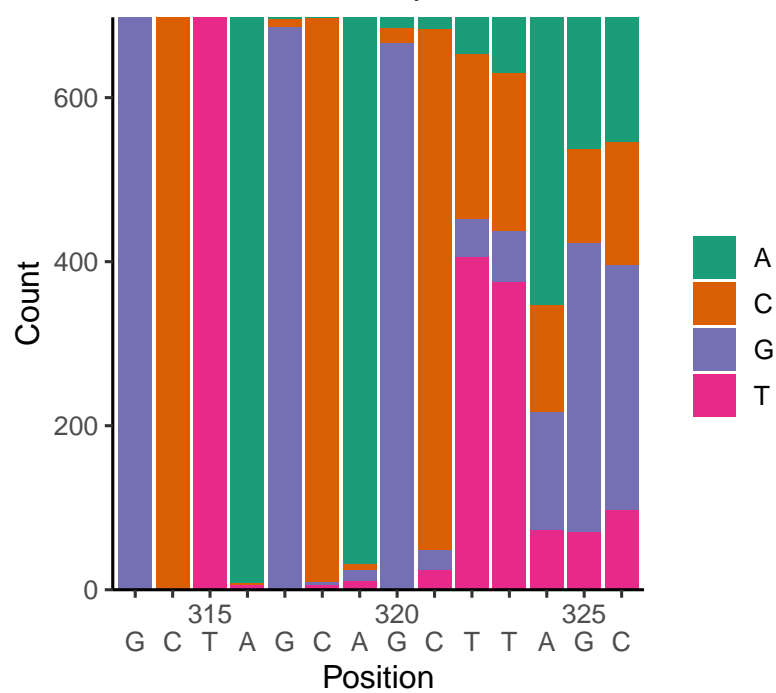


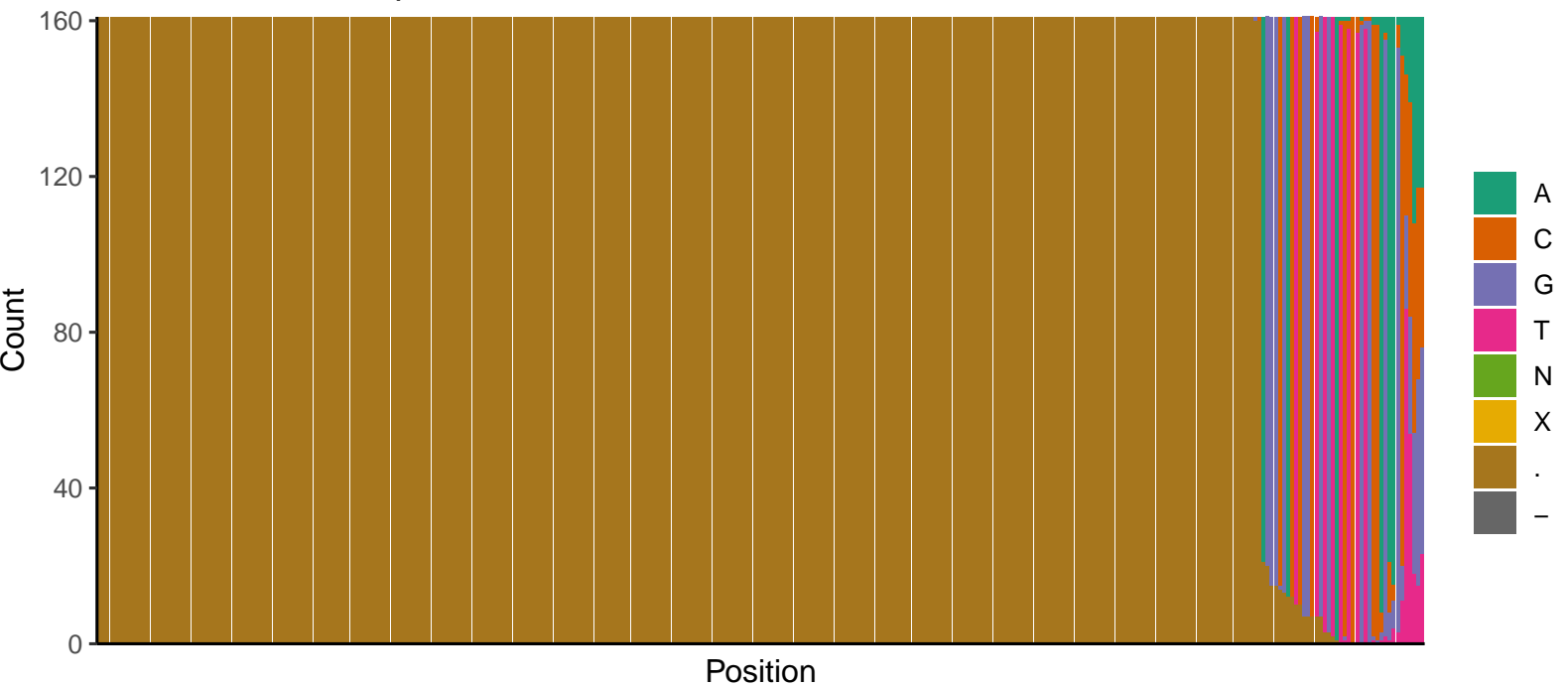
Gene TRBV7-1\*ap01\_G291C\_T296C



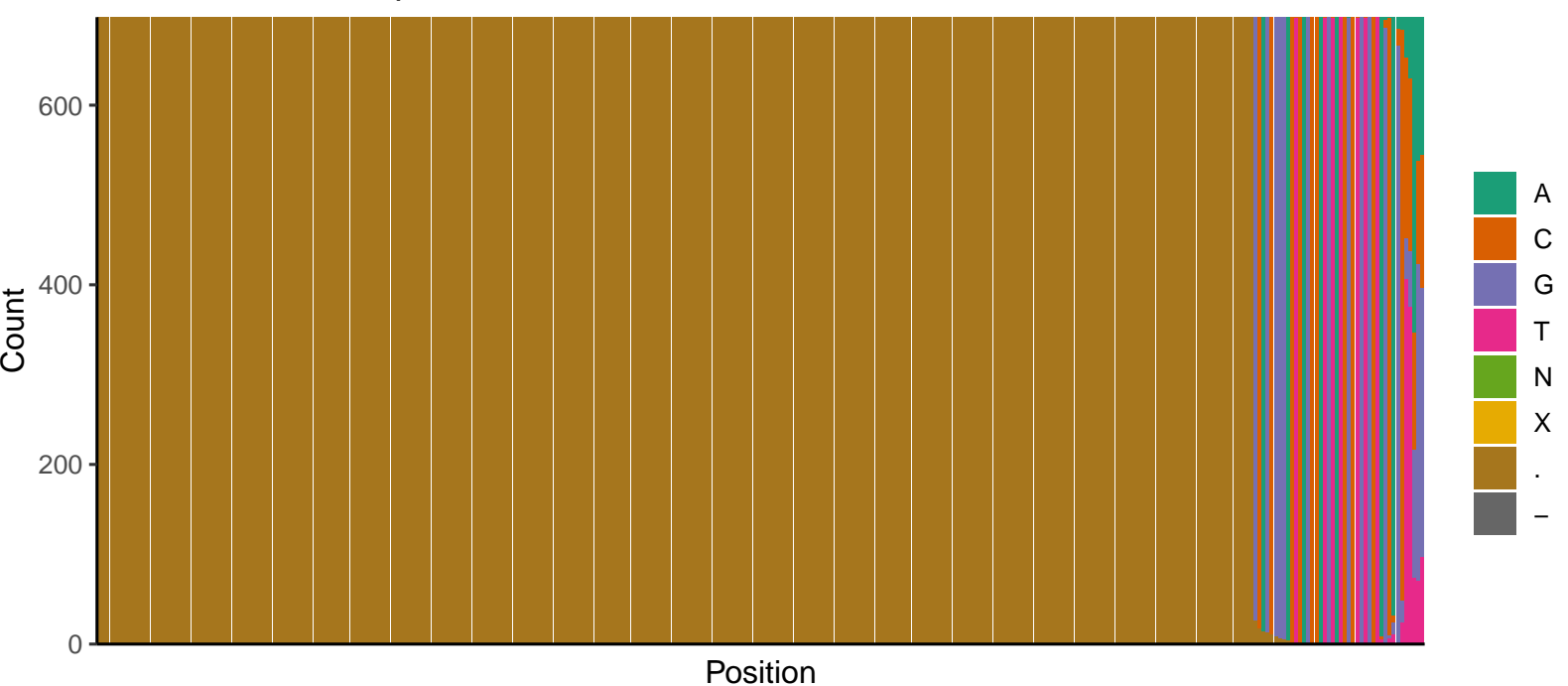
Gene TRBV7-7\*ap01\_C315T



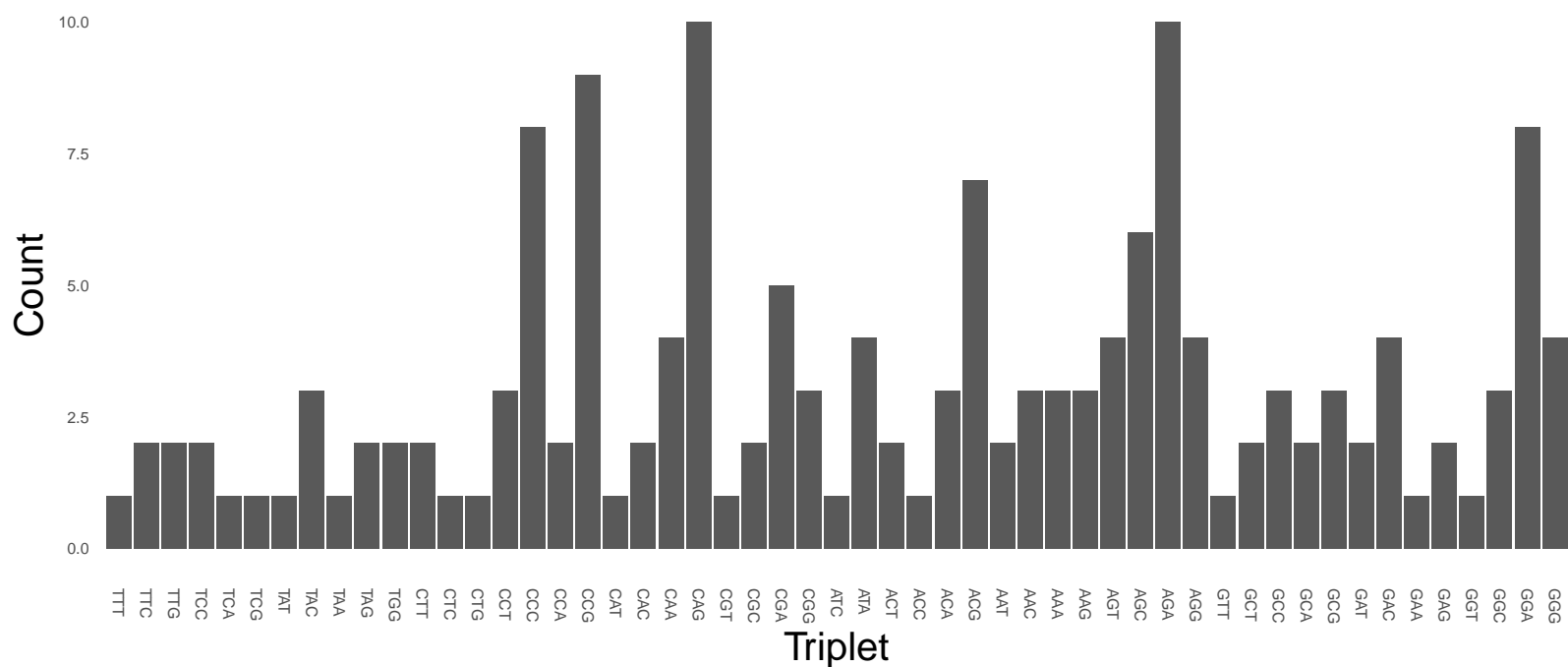
Gene TRBV7-1\*ap01\_G291C\_T296C



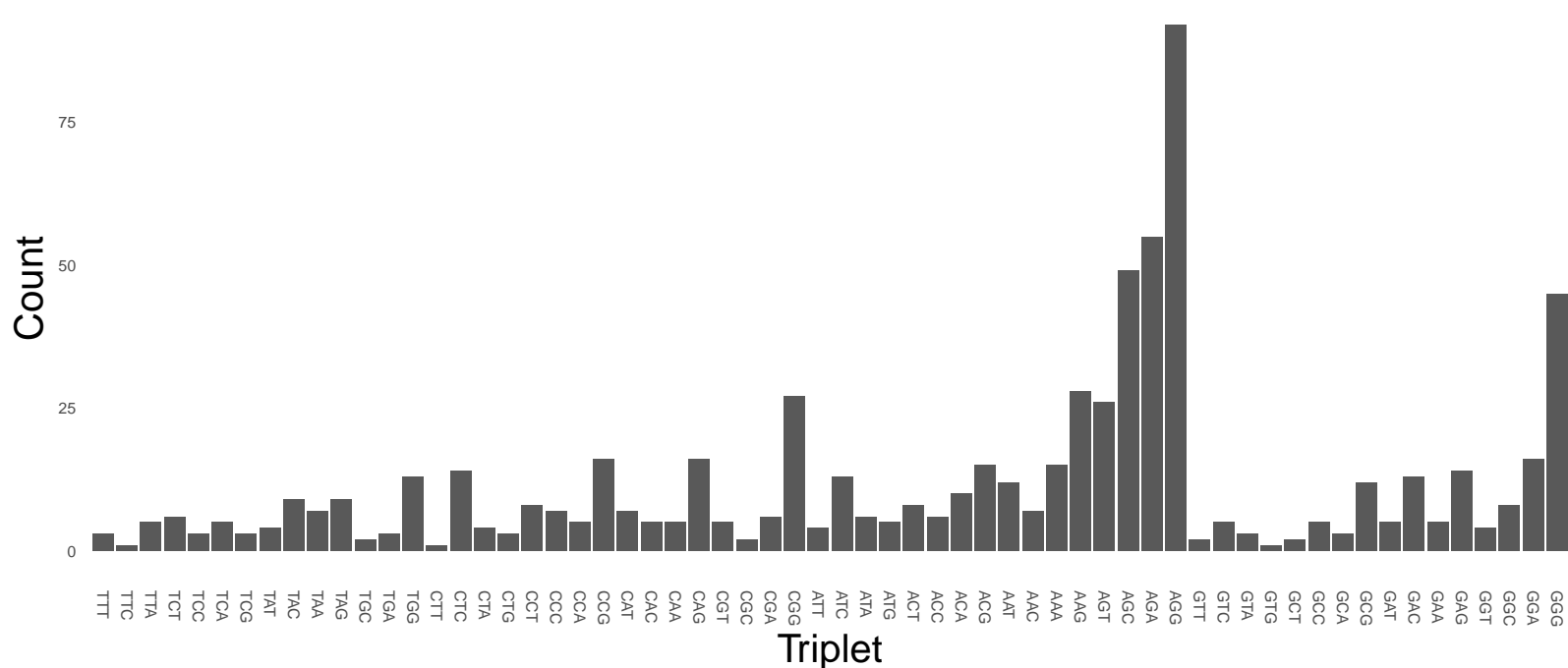
Gene TRBV7-7\*ap01\_C315T



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

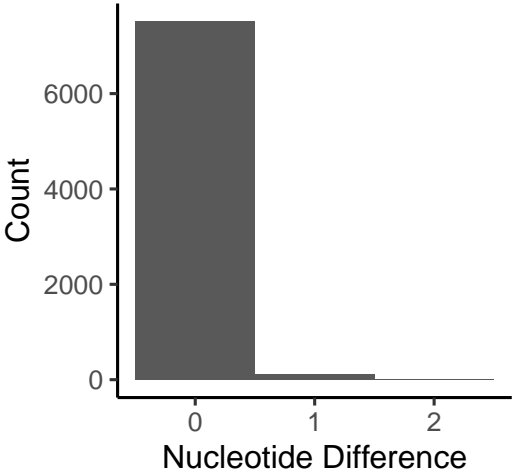


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



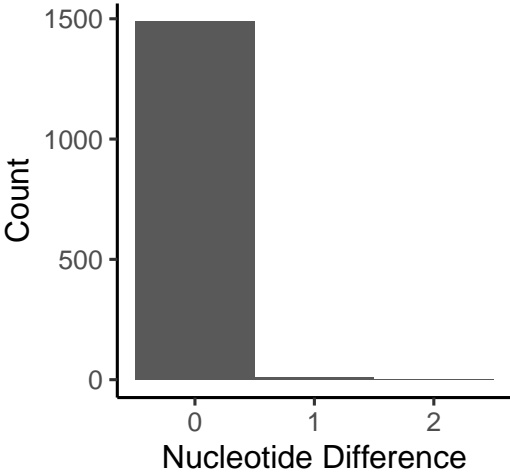
TRBV20-1\*ap01

7621 sequences assigned  
7514 (98.6%) exact matches, in which:  
7344 unique CDR3  
13 unique J



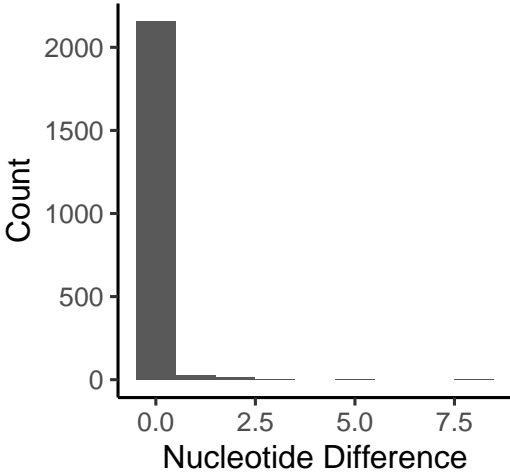
TRBV10-2\*ap01

1502 sequences assigned  
1489 (99.1%) exact matches, in which:  
1456 unique CDR3  
13 unique J



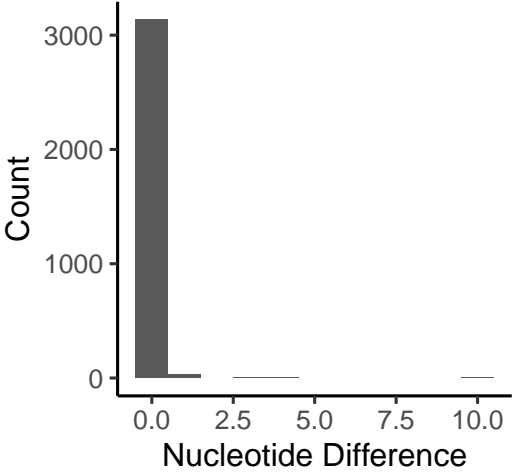
TRBV13\*ap01

2208 sequences assigned  
2156 (97.6%) exact matches, in which:  
2075 unique CDR3  
13 unique J



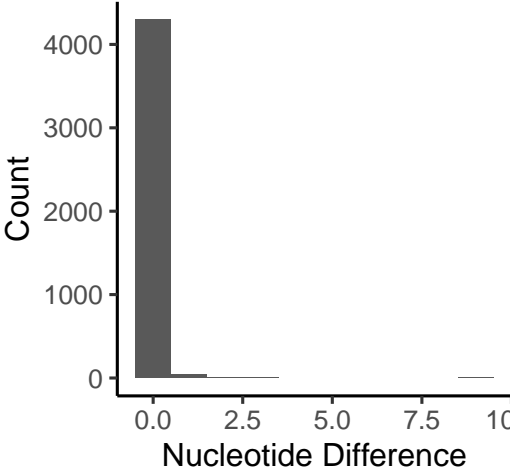
TRBV10-1\*ap01

3169 sequences assigned  
3135 (98.9%) exact matches, in which:  
3034 unique CDR3  
13 unique J



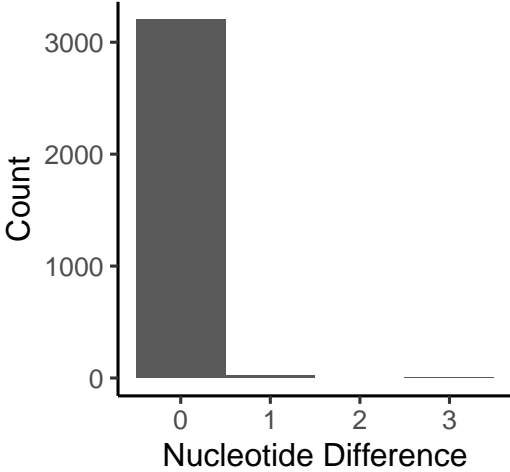
TRBV10-3\*ap01

4347 sequences assigned  
4296 (98.8%) exact matches, in which:  
4194 unique CDR3  
13 unique J



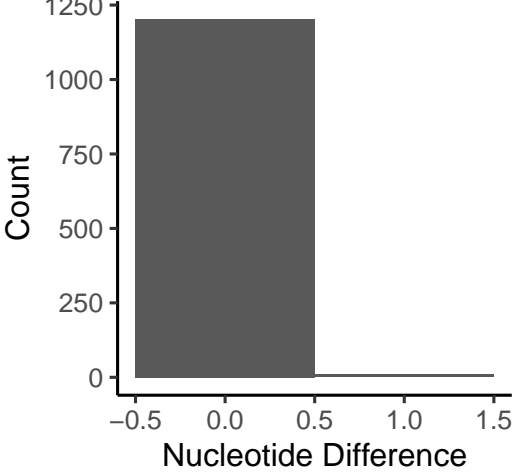
TRBV14\*ap01

3224 sequences assigned  
3201 (99.3%) exact matches, in which:  
3131 unique CDR3  
13 unique J



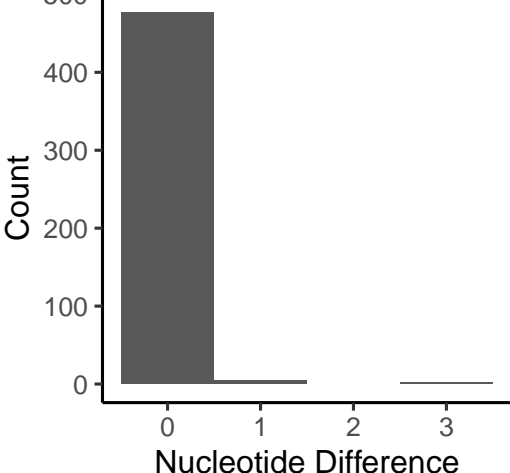
TRBV20-1\*ap02

1213 sequences assigned  
1203 (99.2%) exact matches, in which:  
1166 unique CDR3  
13 unique J



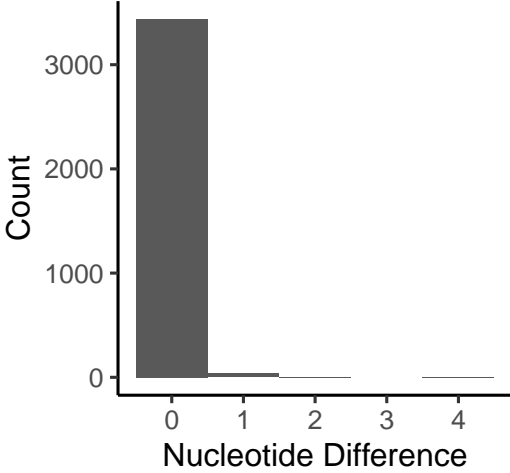
TRBV1\*ap01

484 sequences assigned  
477 (98.6%) exact matches, in which:  
464 unique CDR3  
13 unique J



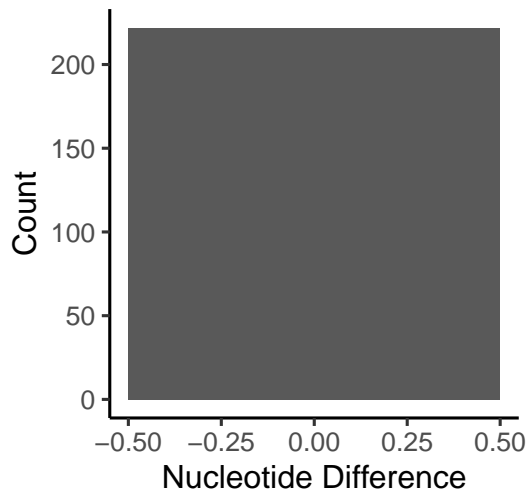
TRBV15\*ap02

3478 sequences assigned  
3438 (98.8%) exact matches, in which:  
3344 unique CDR3  
13 unique J



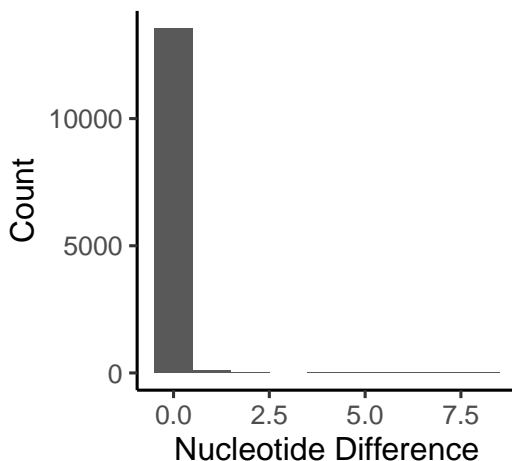
### TRBV16\*ap01

222 sequences assigned  
222 (100%) exact matches, in which:  
220 unique CDR3  
13 unique J



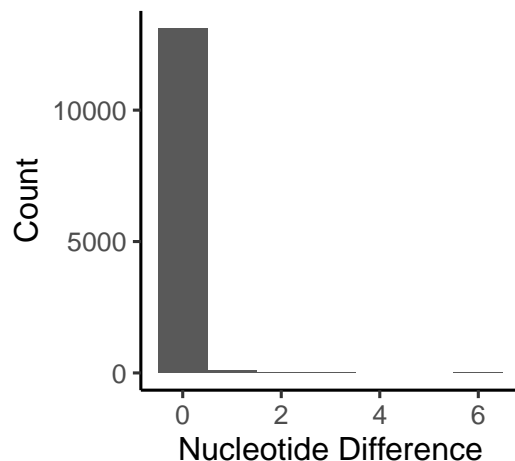
### TRBV19\*ap01

13659 sequences assigned  
13556 (99.2%) exact matches, in which:  
13435 unique CDR3  
13 unique J



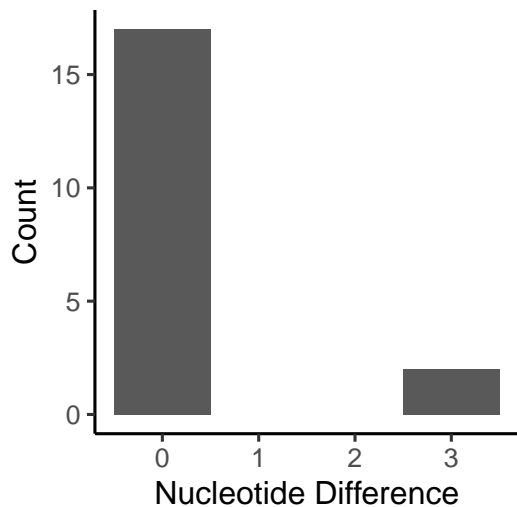
### TRBV28\*ap01

13231 sequences assigned  
13120 (99.2%) exact matches, in which:  
12854 unique CDR3  
13 unique J



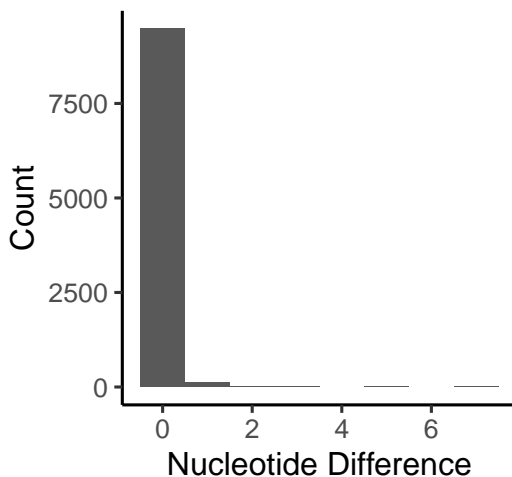
### TRBV17\*ap01

19 sequences assigned  
17 (89.5%) exact matches, in which:  
17 unique CDR3  
4 unique J



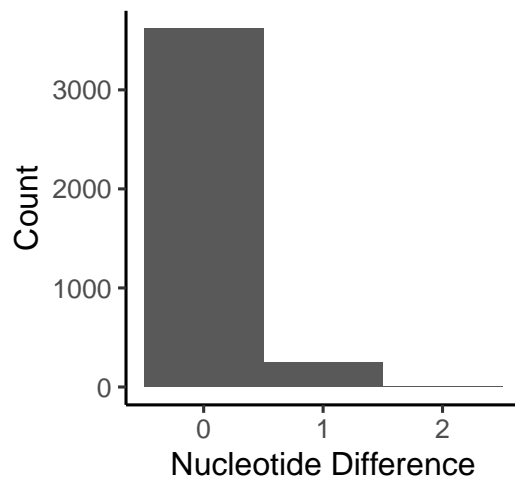
### TRBV2\*ap01

9595 sequences assigned  
9476 (98.8%) exact matches, in which:  
9214 unique CDR3  
13 unique J



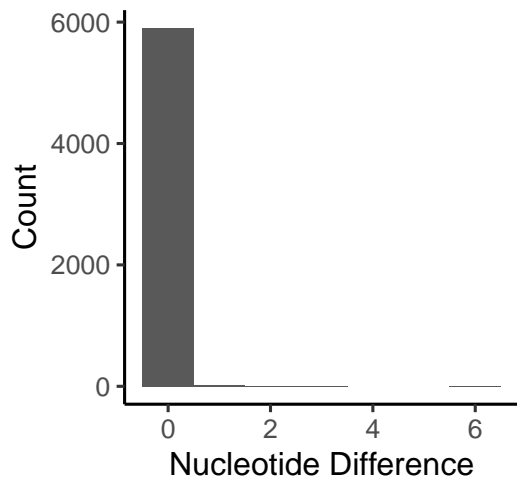
### TRBV30\*ap01

3869 sequences assigned  
3617 (93.5%) exact matches, in which:  
3525 unique CDR3  
13 unique J



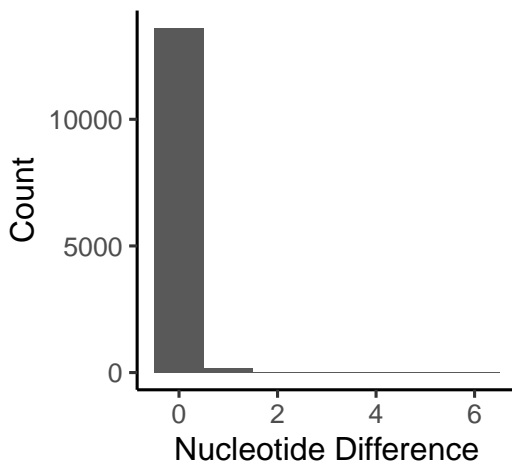
### TRBV18\*ap01

5929 sequences assigned  
5902 (99.5%) exact matches, in which:  
5840 unique CDR3  
13 unique J



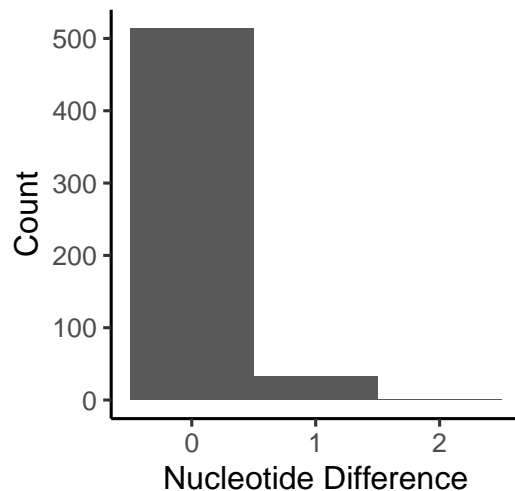
### TRBV27\*ap01

13794 sequences assigned  
13613 (98.7%) exact matches, in which:  
13184 unique CDR3  
13 unique J



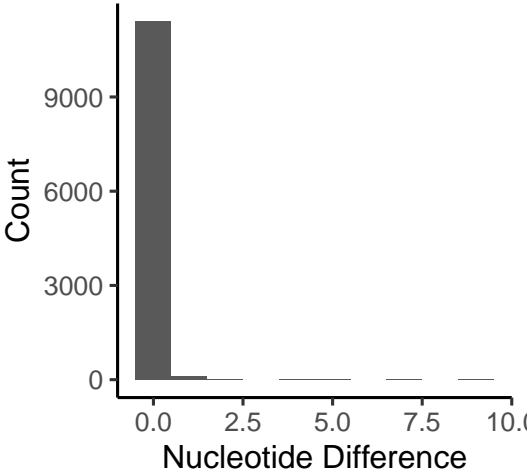
### TRBV30\*ap03

548 sequences assigned  
514 (93.8%) exact matches, in which:  
499 unique CDR3  
13 unique J



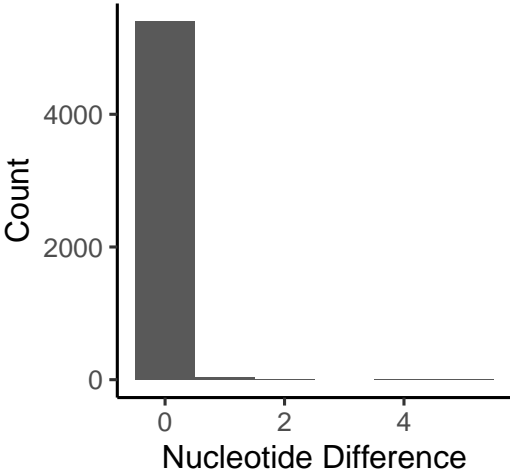
TRBV9\*ap01

11512 sequences assigned  
11405 (99.1%) exact matches, in which:  
11135 unique CDR3  
13 unique J



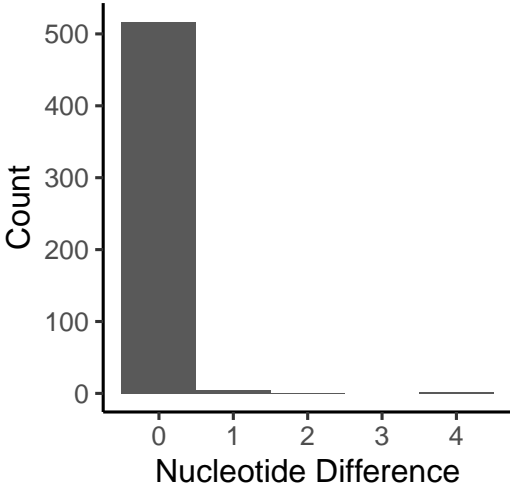
TRBV11-2\*ap01

5439 sequences assigned  
5400 (99.3%) exact matches, in which:  
5331 unique CDR3  
13 unique J



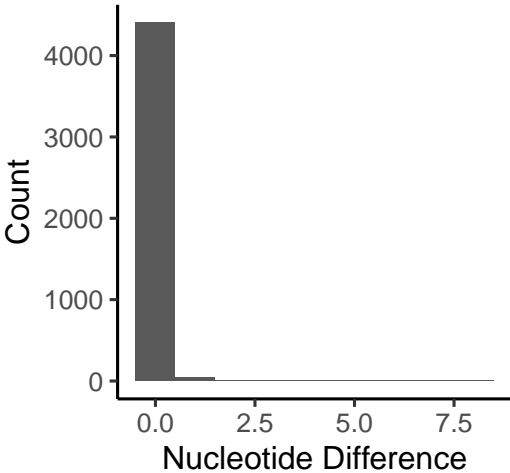
TRBV12-2\*ap01

525 sequences assigned  
517 (98.5%) exact matches, in which:  
511 unique CDR3  
13 unique J



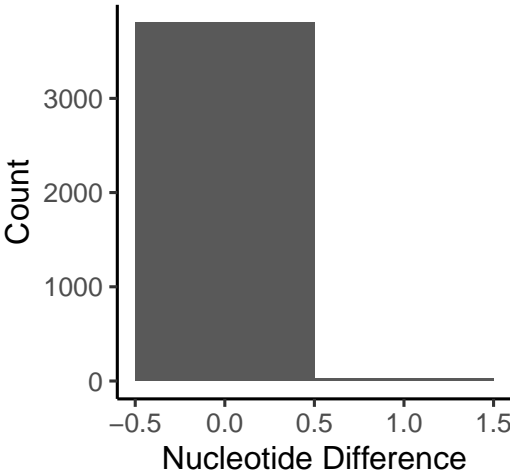
TRBV21-1\*ap01

4464 sequences assigned  
4404 (98.7%) exact matches, in which:  
4342 unique CDR3  
13 unique J



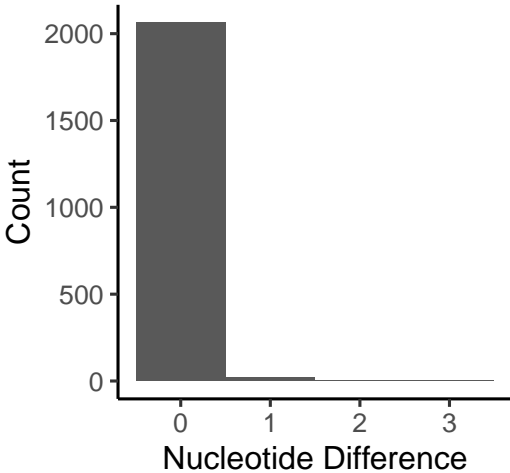
TRBV11-3\*ap01

3830 sequences assigned  
3803 (99.3%) exact matches, in which:  
3737 unique CDR3  
13 unique J



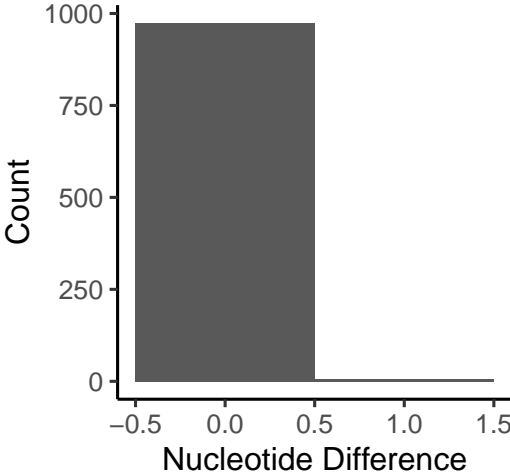
TRBV12-5\*ap01

2084 sequences assigned  
2063 (99%) exact matches, in which:  
2021 unique CDR3  
13 unique J



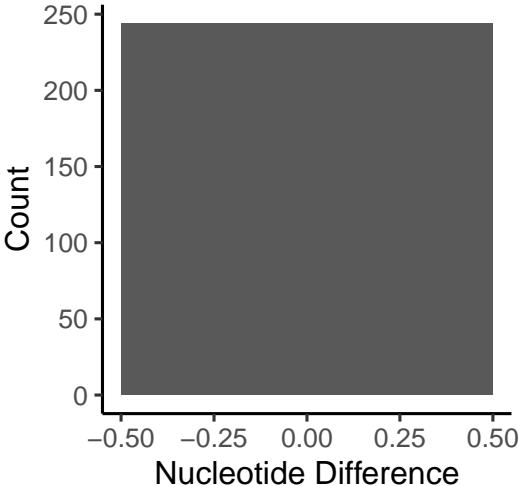
TRBV11-1\*ap01

981 sequences assigned  
974 (99.3%) exact matches, in which:  
961 unique CDR3  
13 unique J



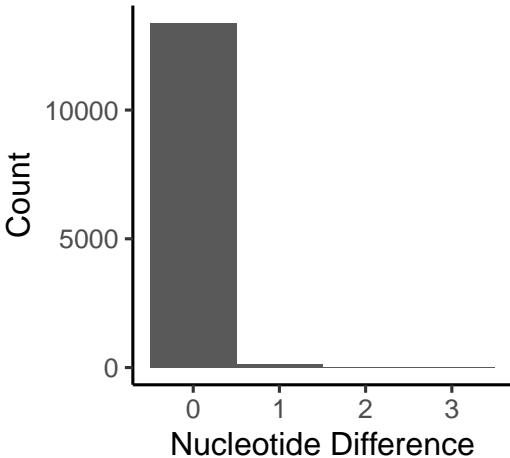
TRBV12-1\*ap01

244 sequences assigned  
244 (100%) exact matches, in which:  
243 unique CDR3  
13 unique J



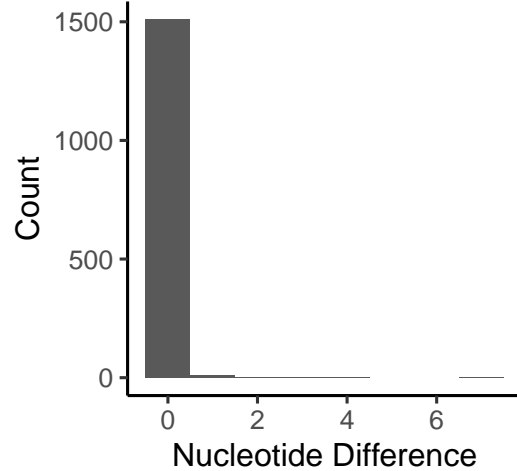
TRBV12-34\*ap01

13517 sequences assigned  
13388 (99%) exact matches, in which:  
13107 unique CDR3  
13 unique J



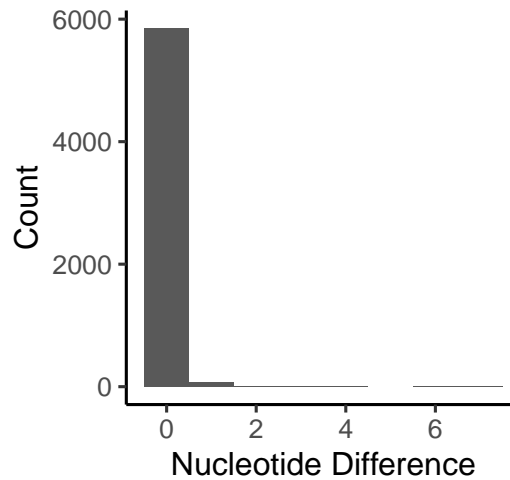
### TRBV23-1\*ap01

1526 sequences assigned  
1510 (99%) exact matches, in which:  
1488 unique CDR3  
13 unique J



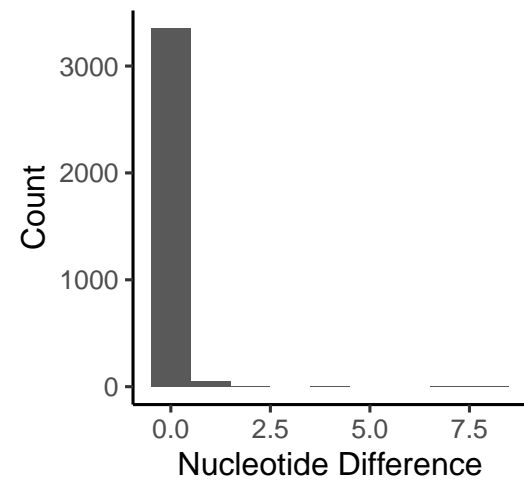
### TRBV24-1\*ap01

5932 sequences assigned  
5849 (98.6%) exact matches, in which:  
5717 unique CDR3  
13 unique J



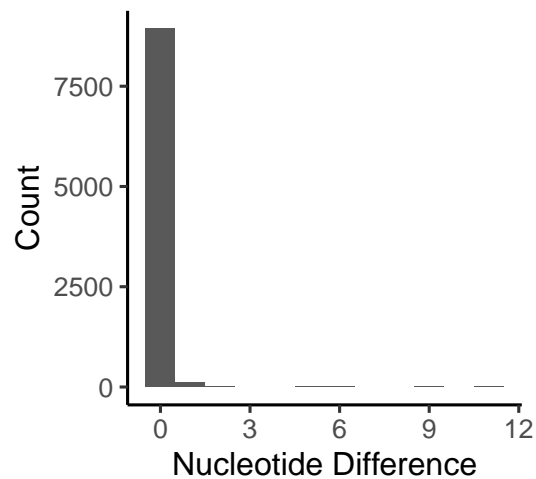
### TRBV25-1\*ap01

3414 sequences assigned  
3352 (98.2%) exact matches, in which:  
3254 unique CDR3  
13 unique J



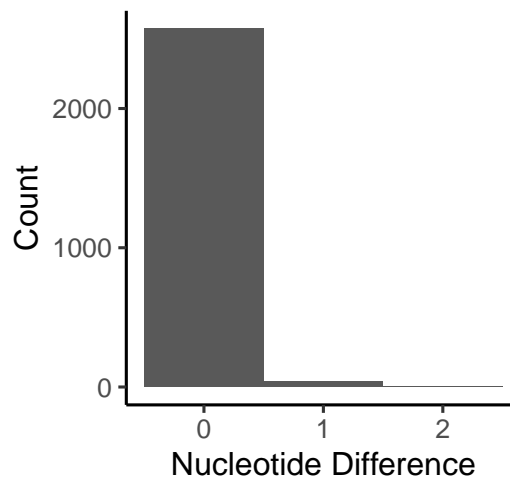
### TRBV3-12\*ap01

9042 sequences assigned  
8934 (98.8%) exact matches, in which:  
8688 unique CDR3  
13 unique J



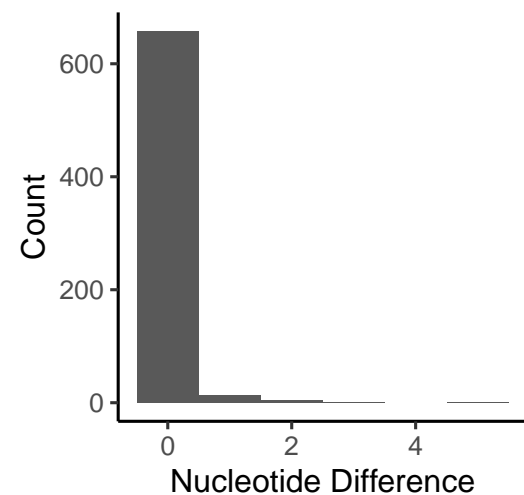
### TRBV4-2\*ap01

2614 sequences assigned  
2573 (98.4%) exact matches, in which:  
2494 unique CDR3  
13 unique J



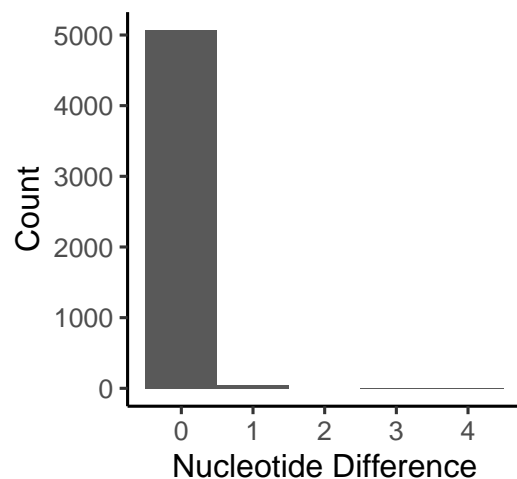
### TRBV5-3\*ap01

677 sequences assigned  
658 (97.2%) exact matches, in which:  
648 unique CDR3  
13 unique J



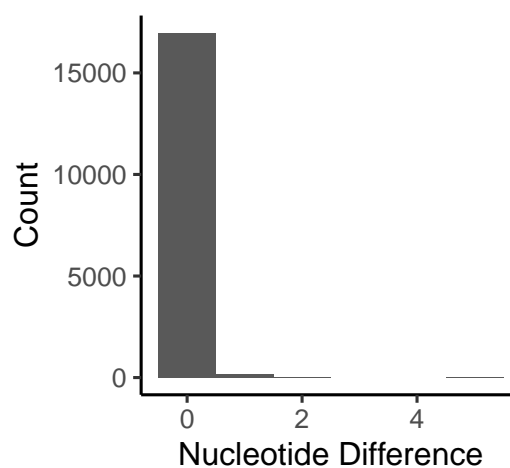
### TRBV4-1\*ap01

5120 sequences assigned  
5070 (99%) exact matches, in which:  
4911 unique CDR3  
13 unique J



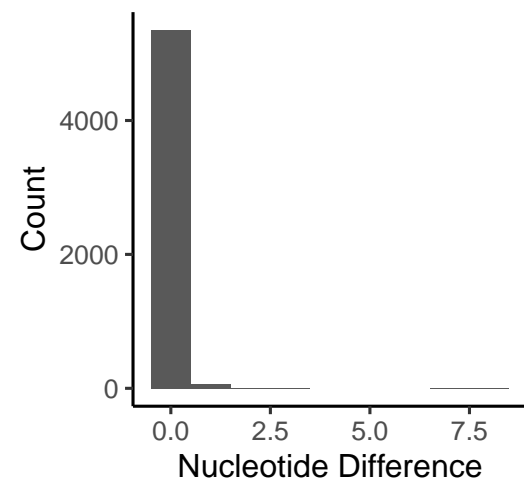
### TRBV5-1\*ap01

17139 sequences assigned  
16975 (99%) exact matches, in which:  
16428 unique CDR3  
13 unique J



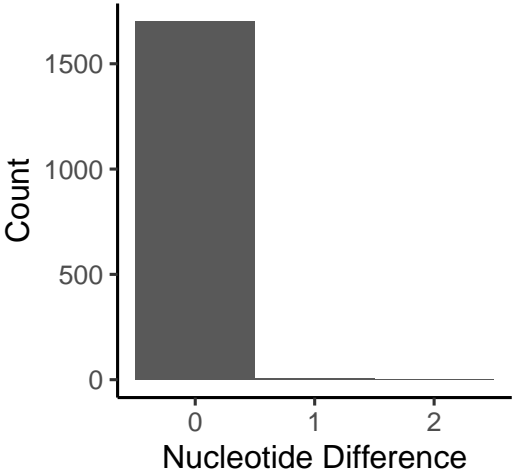
### TRBV5-4\*ap01

5423 sequences assigned  
5351 (98.7%) exact matches, in which:  
5217 unique CDR3  
13 unique J



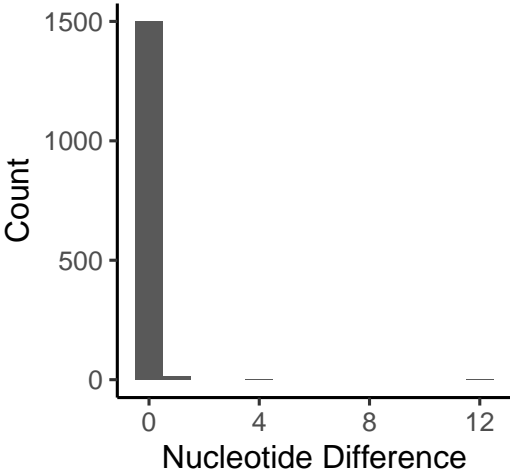
TRBV5-5\*ap01

1710 sequences assigned  
1701 (99.5%) exact matches, in which:  
1688 unique CDR3  
13 unique J



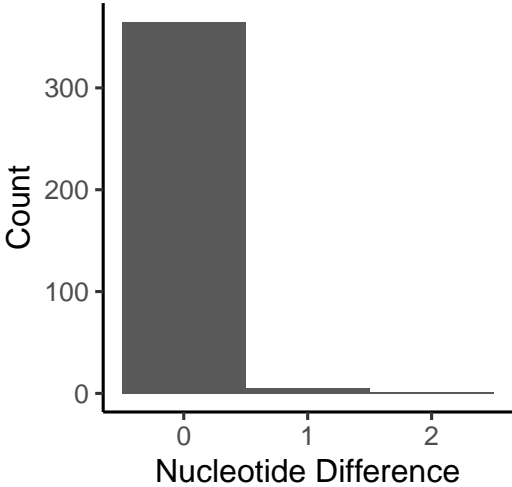
TRBV5-8\*ap01

1519 sequences assigned  
1500 (98.7%) exact matches, in which:  
1479 unique CDR3  
13 unique J



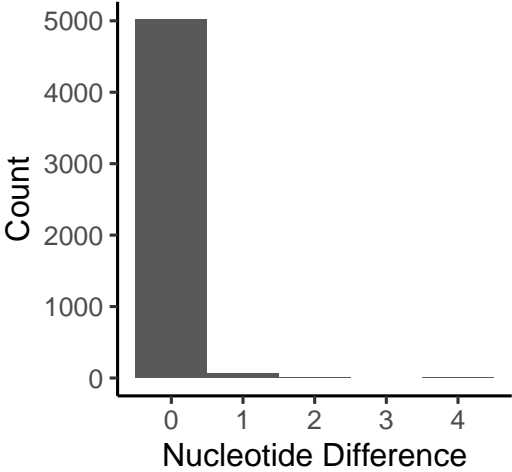
TRBV6-7\*ap01

371 sequences assigned  
365 (98.4%) exact matches, in which:  
357 unique CDR3  
13 unique J



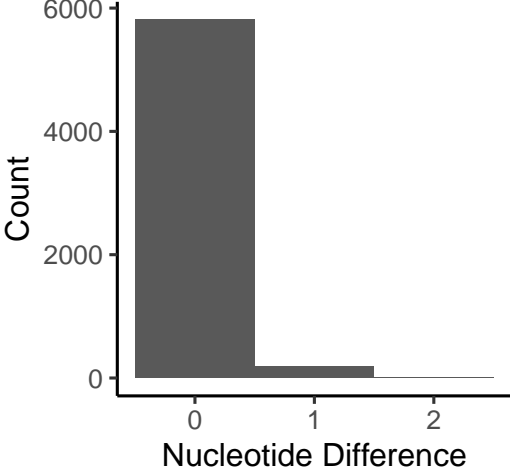
TRBV5-6\*ap01

5083 sequences assigned  
5015 (98.7%) exact matches, in which:  
4819 unique CDR3  
13 unique J



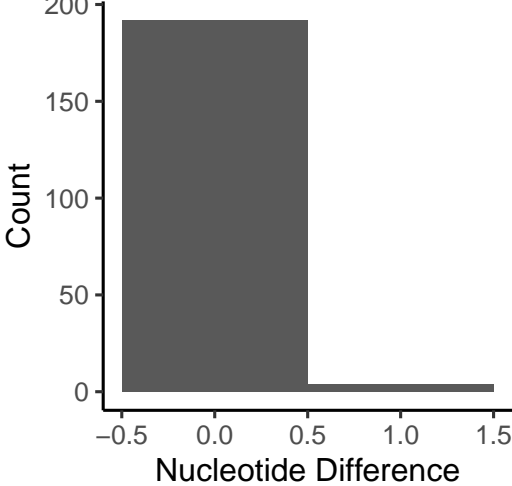
TRBV6-1\*ap01

5991 sequences assigned  
5811 (97%) exact matches, in which:  
5613 unique CDR3  
13 unique J



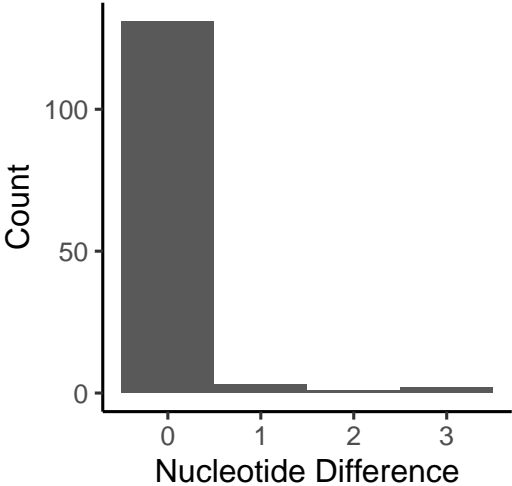
TRBV6-8\*ap01

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



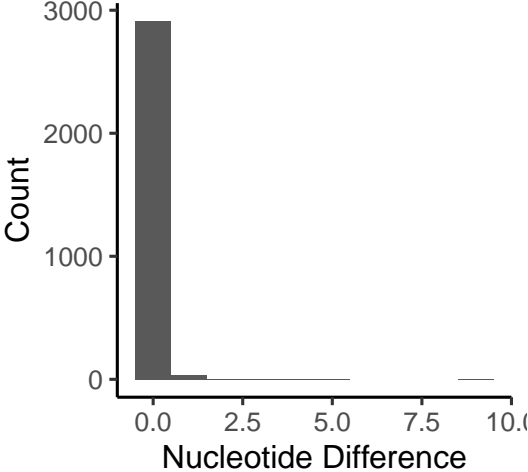
TRBV5-7\*ap01

137 sequences assigned  
131 (95.6%) exact matches, in which:  
128 unique CDR3  
12 unique J



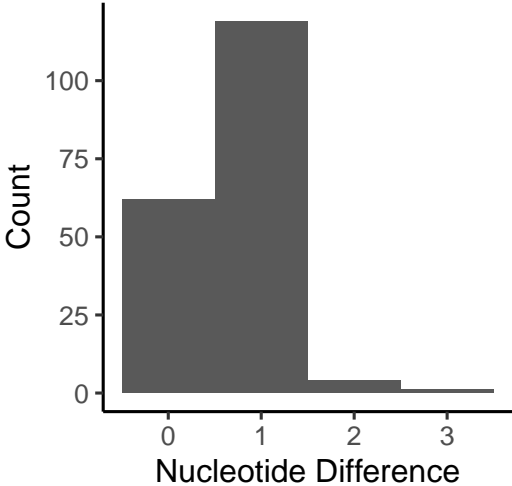
TRBV6-4\*ap01

2954 sequences assigned  
2912 (98.6%) exact matches, in which:  
2861 unique CDR3  
13 unique J



TRBV6-9\*ap01

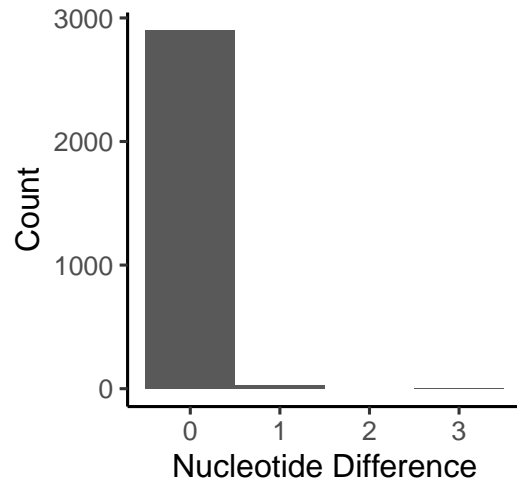
186 sequences assigned  
62 (33.3%) exact matches, in which:  
60 unique CDR3  
12 unique J





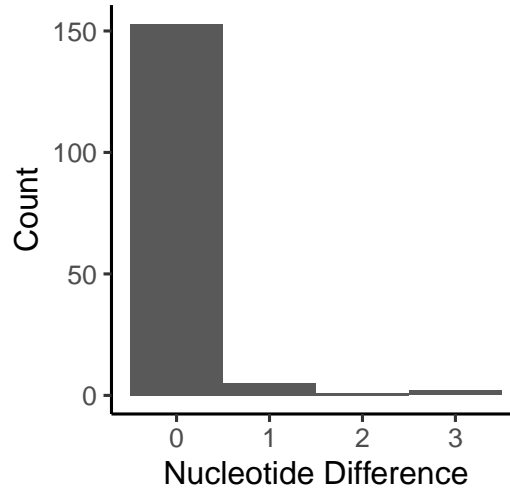
### TRBV6-23\*ap01

2929 sequences assigned  
2899 (99%) exact matches, in which:  
2801 unique CDR3  
13 unique J



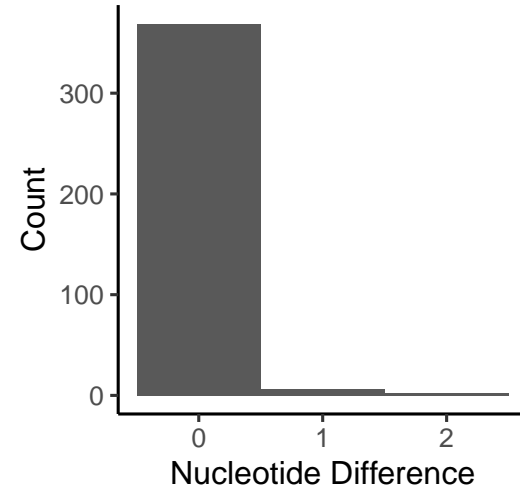
### TRBV7-1\*ap01\_G291C\_

161 sequences assigned  
153 (95%) exact matches, in which:  
151 unique CDR3  
13 unique J



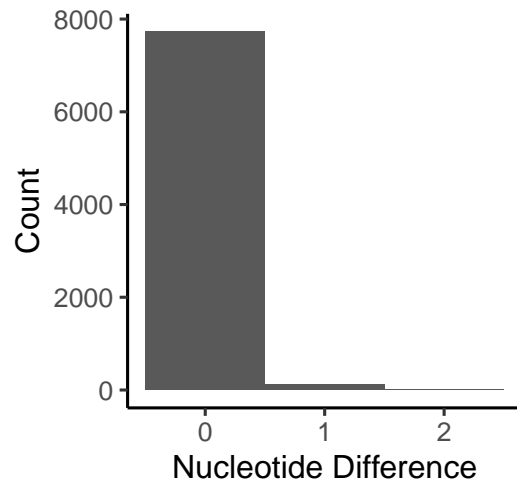
### TRBV7-4\*ap01

377 sequences assigned  
369 (97.9%) exact matches, in which:  
354 unique CDR3  
13 unique J



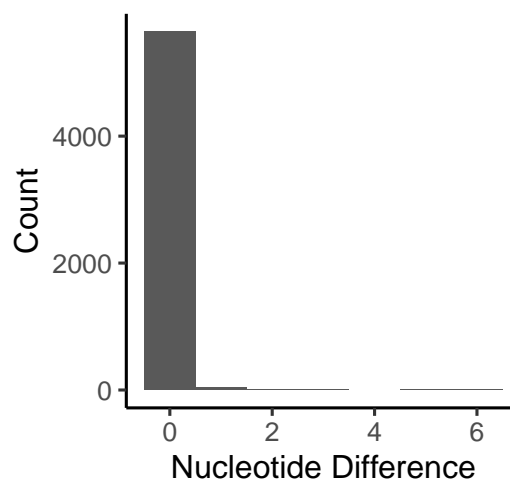
### TRBV6-56\*ap01

7849 sequences assigned  
7727 (98.4%) exact matches, in which:  
7508 unique CDR3  
13 unique J



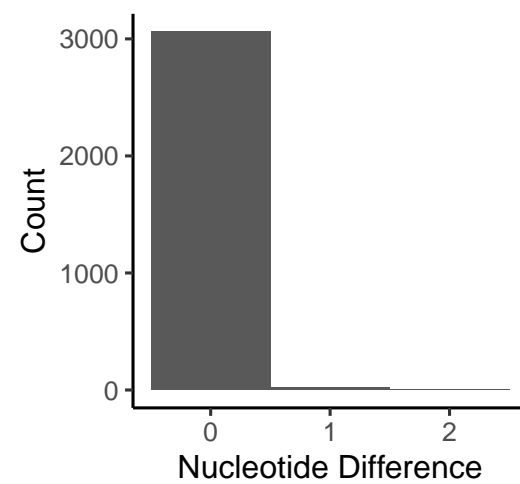
### TRBV7-2\*ap01

5697 sequences assigned  
5645 (99.1%) exact matches, in which:  
5524 unique CDR3  
13 unique J



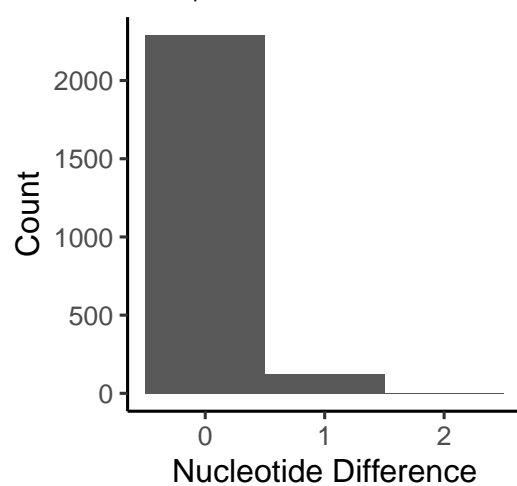
### TRBV7-6\*ap01

3088 sequences assigned  
3061 (99.1%) exact matches, in which:  
2967 unique CDR3  
13 unique J



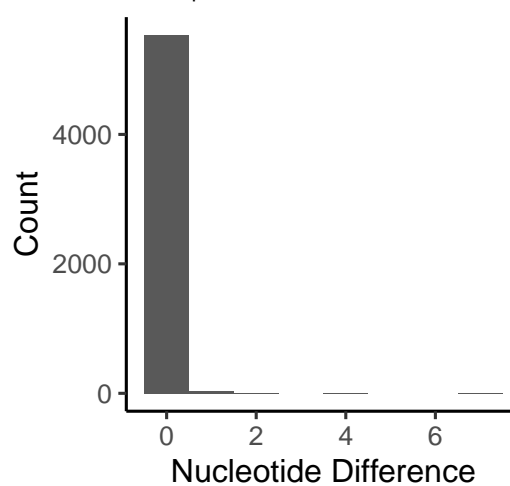
### TRBV6-56\*ap02

2415 sequences assigned  
2291 (94.9%) exact matches, in which:  
2216 unique CDR3  
13 unique J



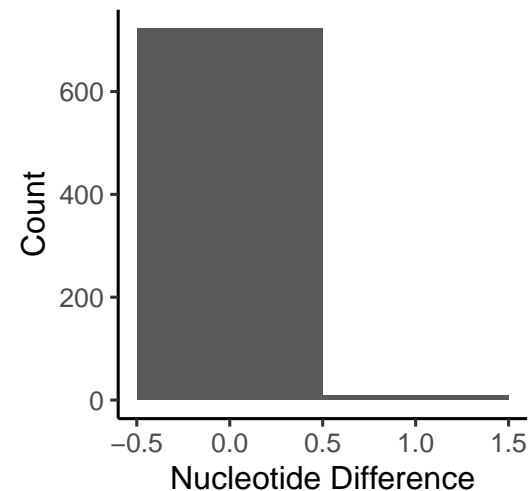
### TRBV7-3\*ap01

5573 sequences assigned  
5535 (99.3%) exact matches, in which:  
5463 unique CDR3  
13 unique J



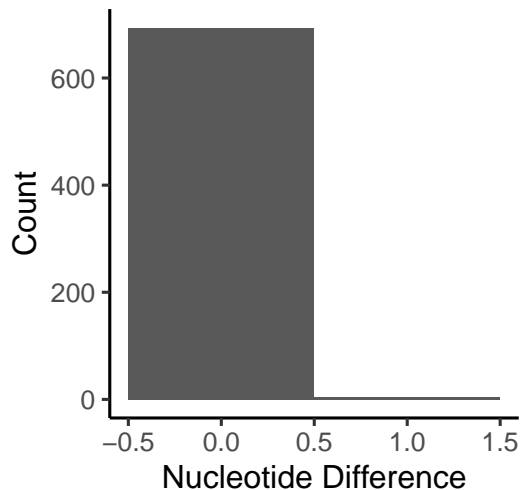
### TRBV7-7\*ap01

732 sequences assigned  
723 (98.8%) exact matches, in which:  
707 unique CDR3  
13 unique J



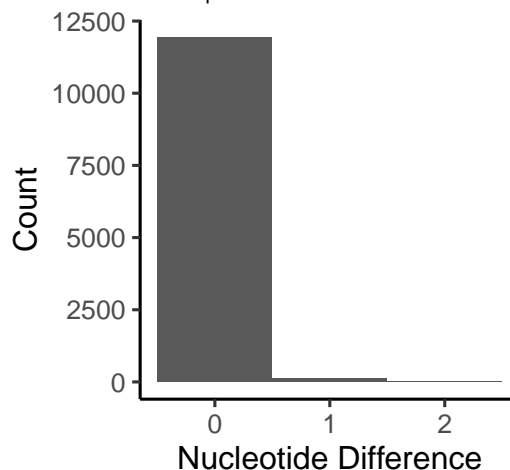
### TRBV7-7\*ap01\_C315T

698 sequences assigned  
694 (99.4%) exact matches, in which:  
673 unique CDR3  
13 unique J



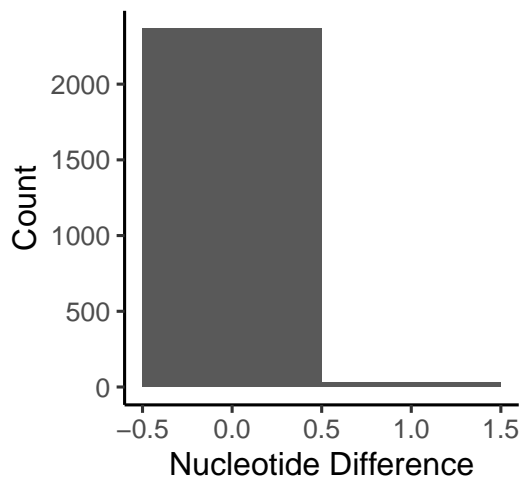
### TRBV7-9\*ap01

12052 sequences assigned  
11942 (99.1%) exact matches, in which:  
11699 unique CDR3  
13 unique J



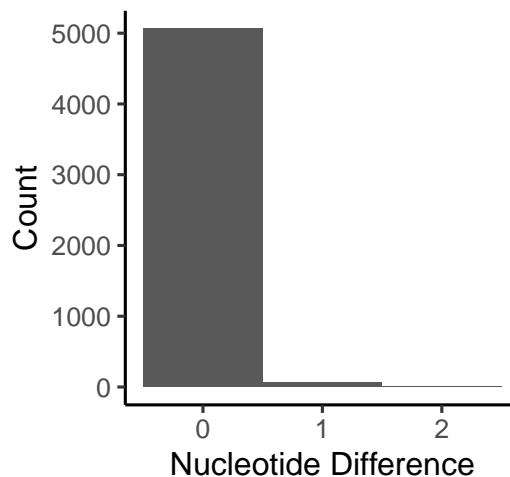
### TRBV7-8\*ap01

2394 sequences assigned  
2366 (98.8%) exact matches, in which:  
2300 unique CDR3  
13 unique J



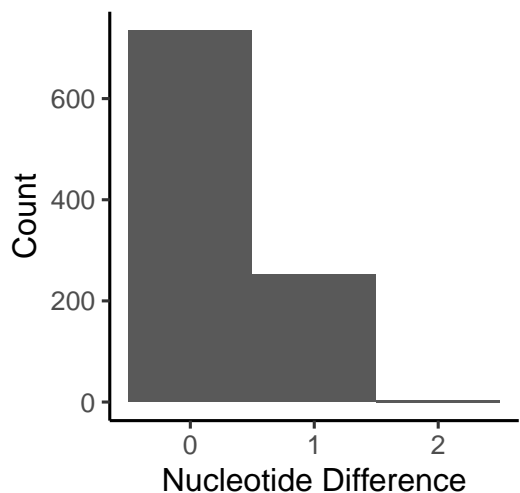
### TRBV29-1\*ap01

5128 sequences assigned  
5063 (98.7%) exact matches, in which:  
4899 unique CDR3  
13 unique J



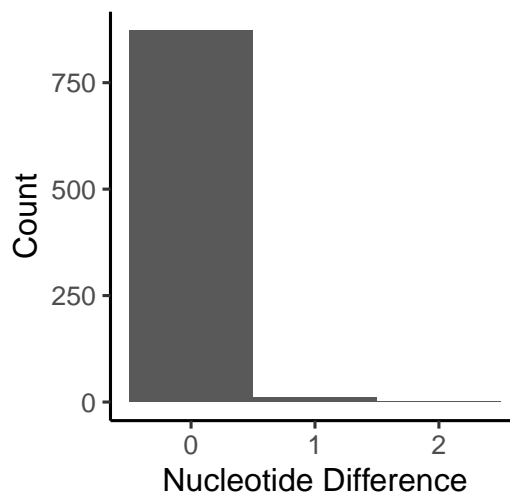
### TRBV7-8\*ap03

991 sequences assigned  
735 (74.2%) exact matches, in which:  
716 unique CDR3  
13 unique J

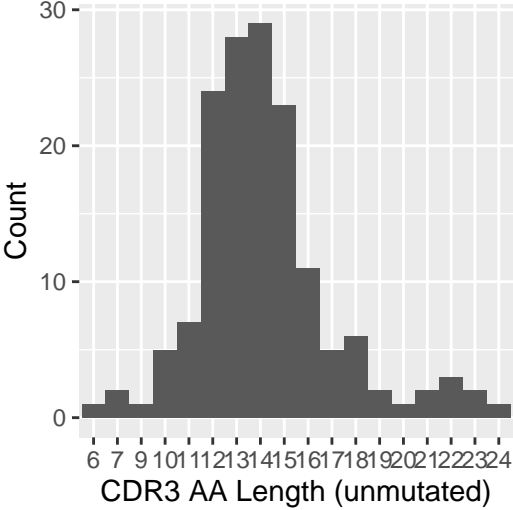


### TRBV29-1\*ap02

885 sequences assigned  
873 (98.6%) exact matches, in which:  
852 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

