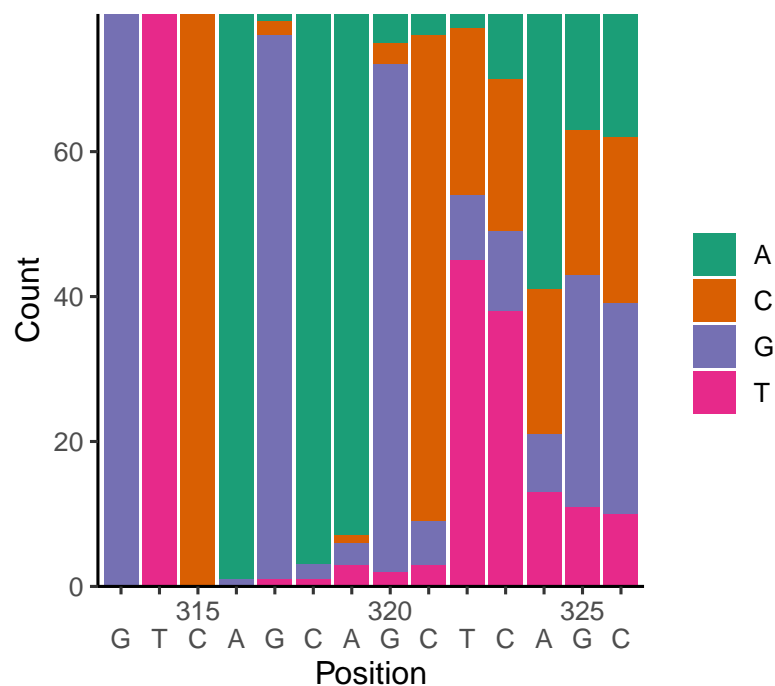
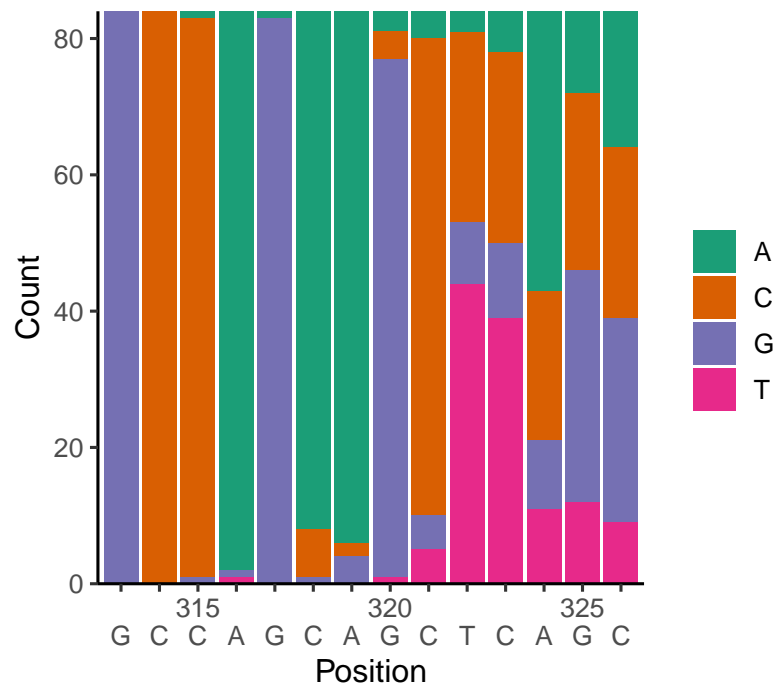


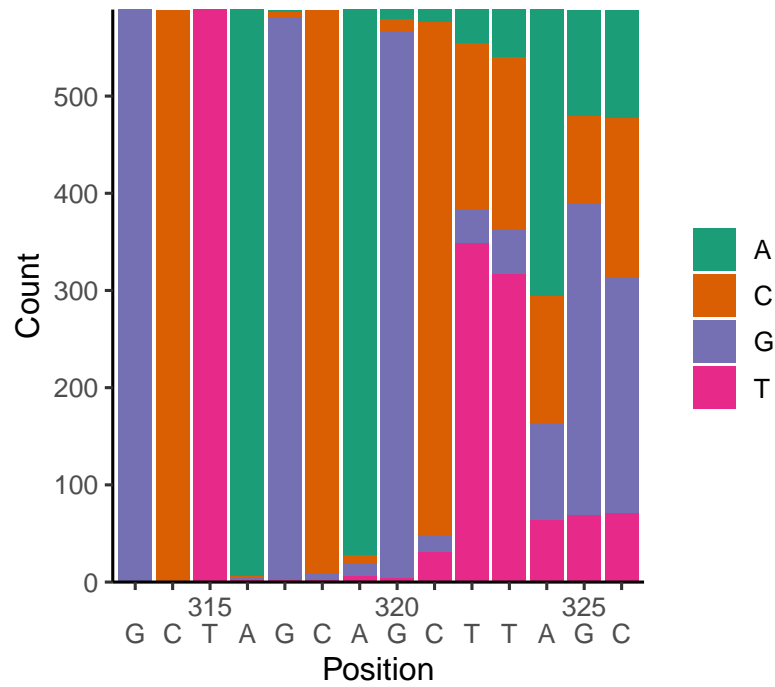
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



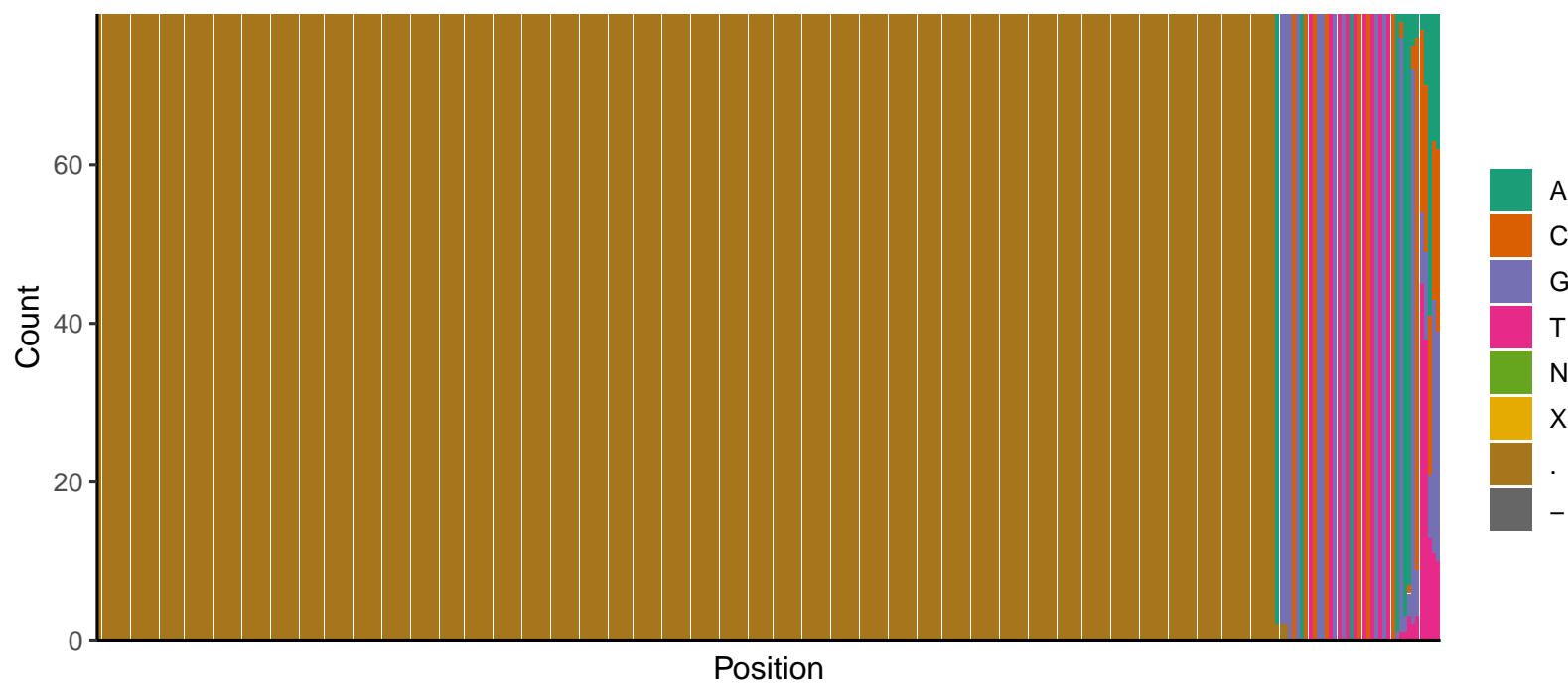
Gene TRBV7-1\*ap01\_G291C\_T296C



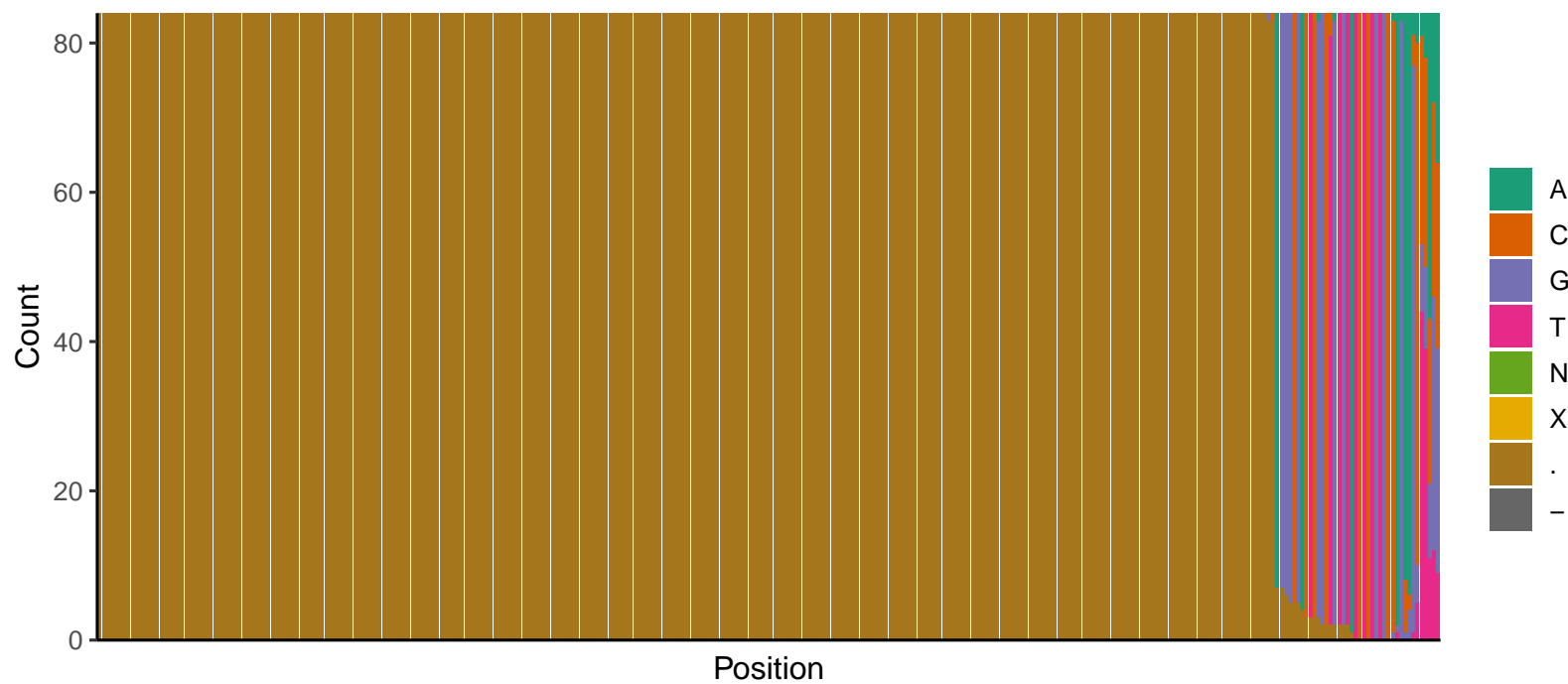
Gene TRBV7-7\*ap01\_C315T



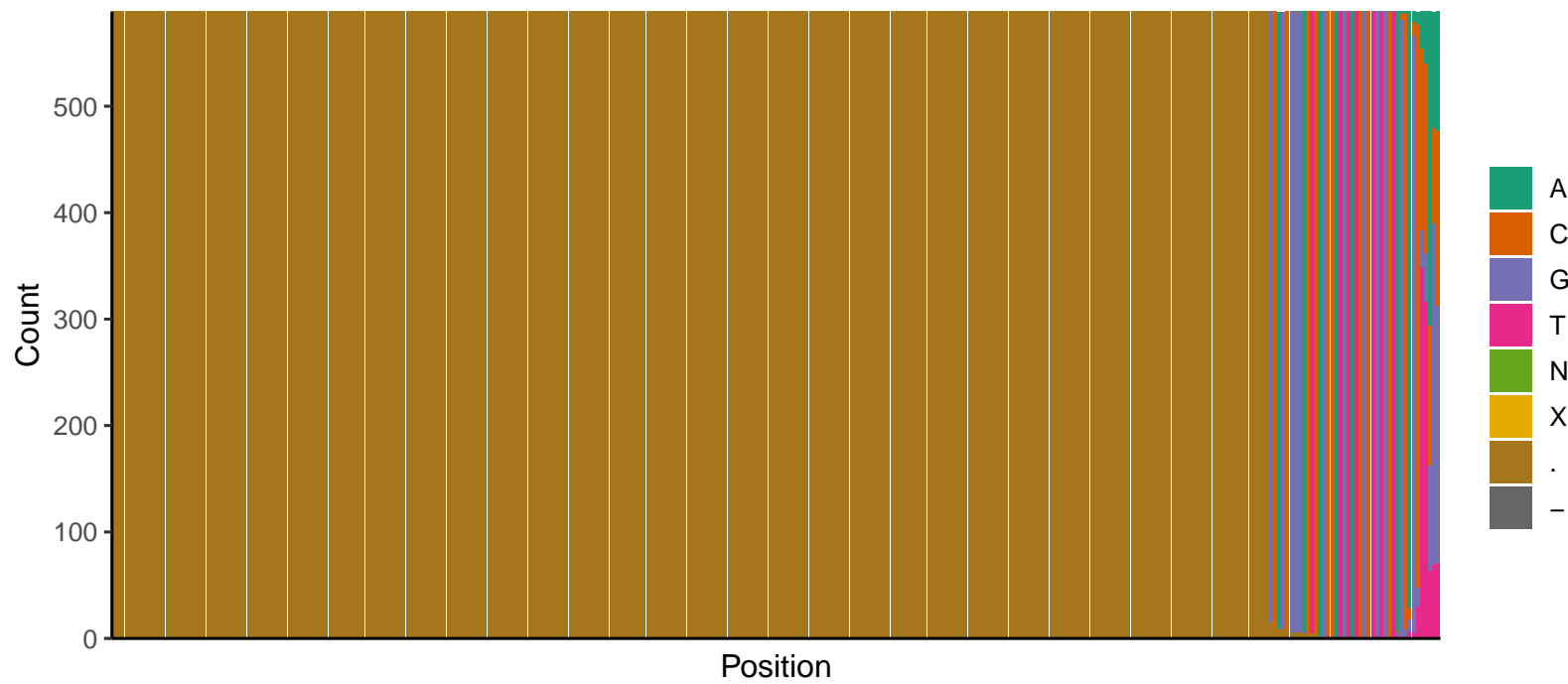
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



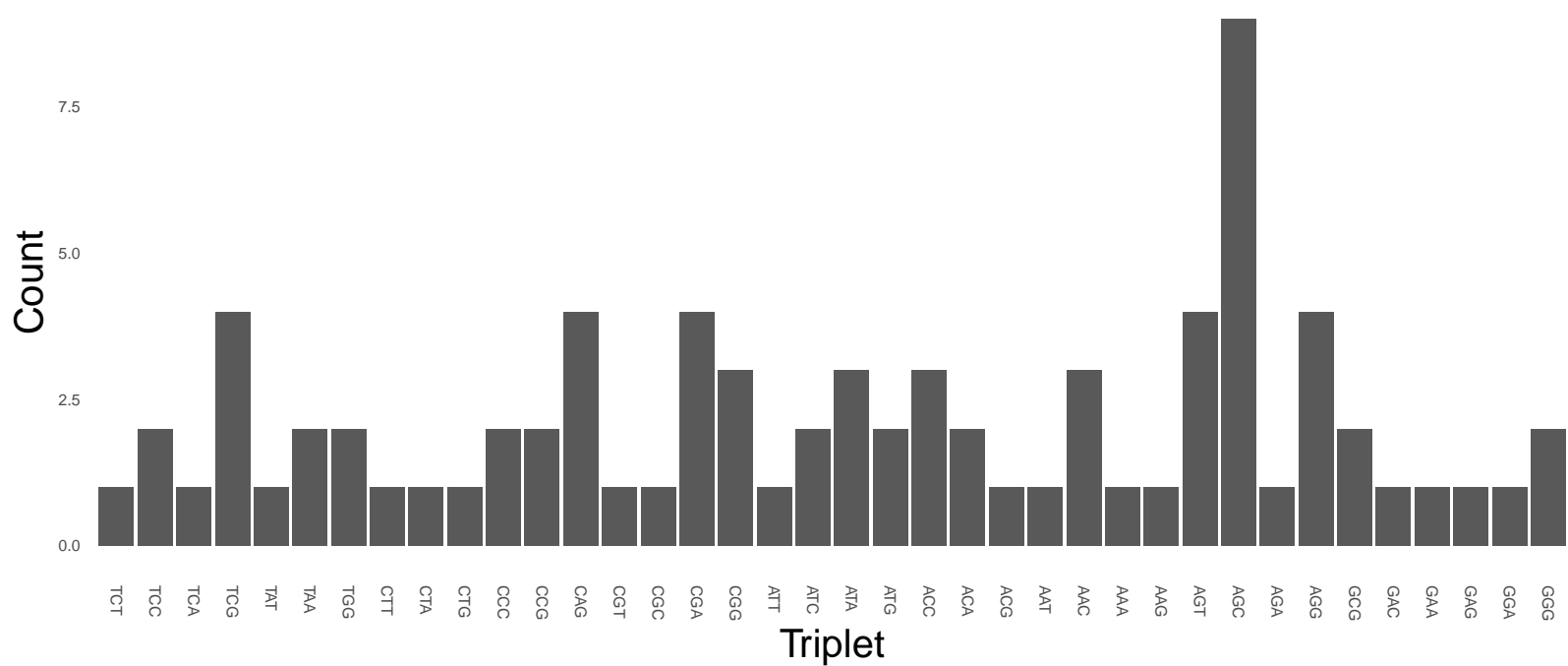
Gene TRBV7-1\*ap01\_G291C\_T296C



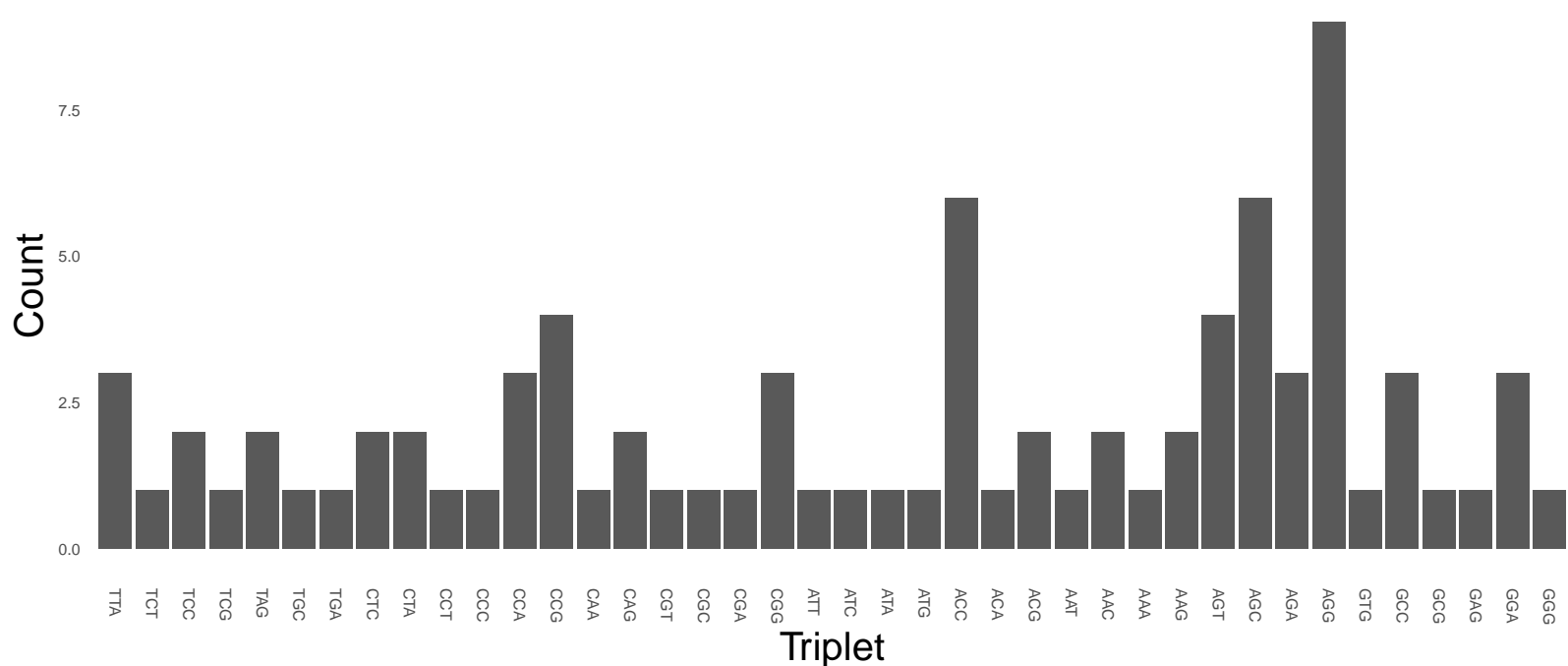
Gene TRBV7-7\*ap01\_C315T



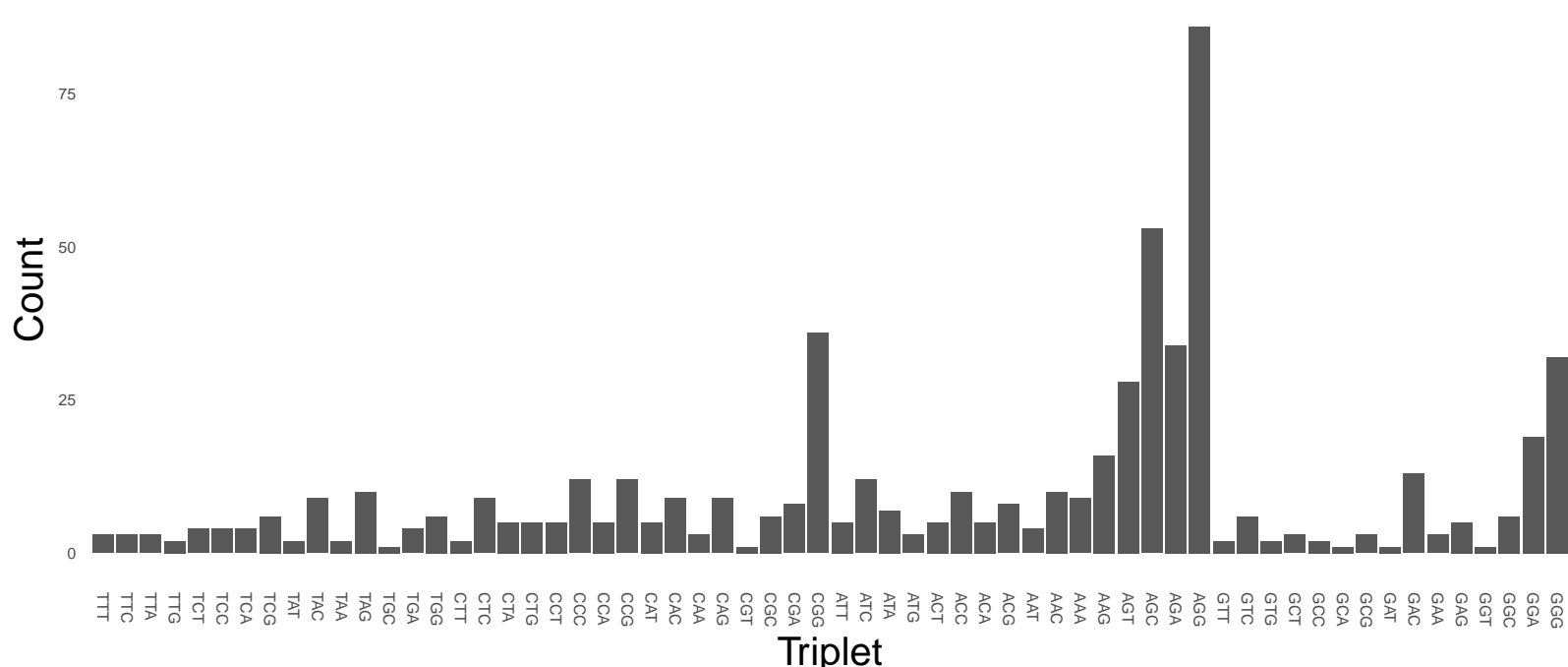
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

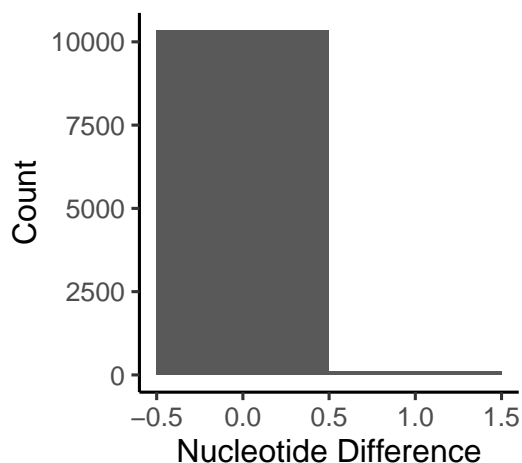


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



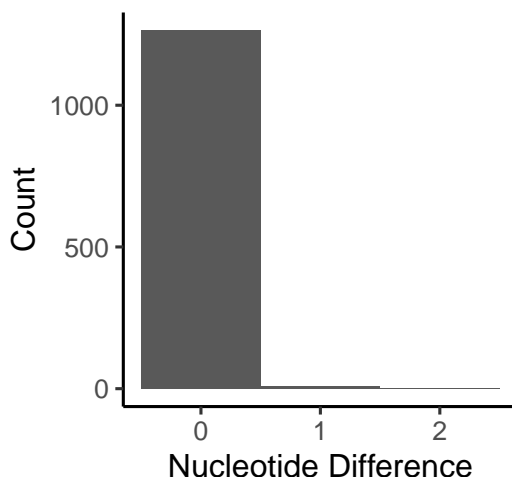
### TRBV20-1\*ap01

10442 sequences assigned  
10351 (99.1%) exact matches, in which:  
10285 unique CDR3  
13 unique J



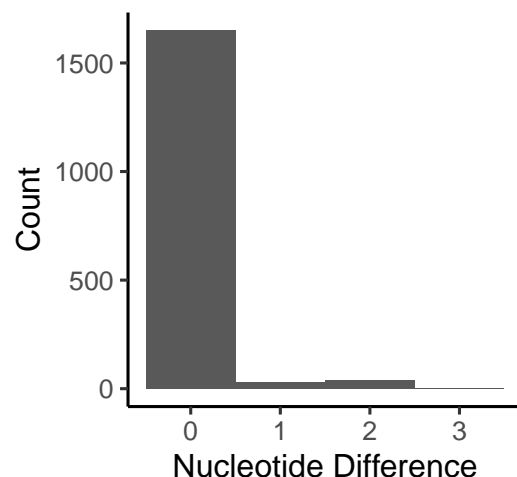
### TRBV10-2\*ap01

1274 sequences assigned  
1264 (99.2%) exact matches, in which:  
1248 unique CDR3  
13 unique J



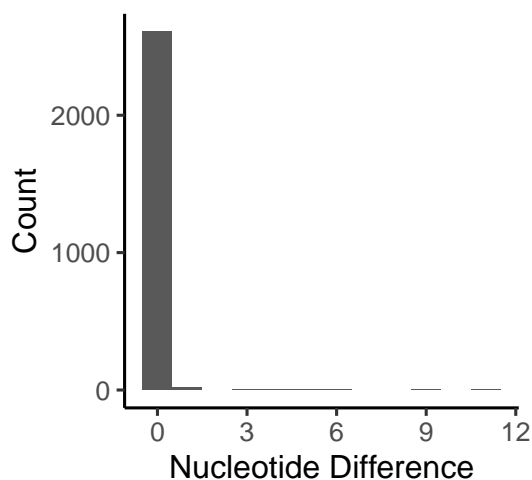
### TRBV13\*ap01

1722 sequences assigned  
1650 (95.8%) exact matches, in which:  
1630 unique CDR3  
13 unique J



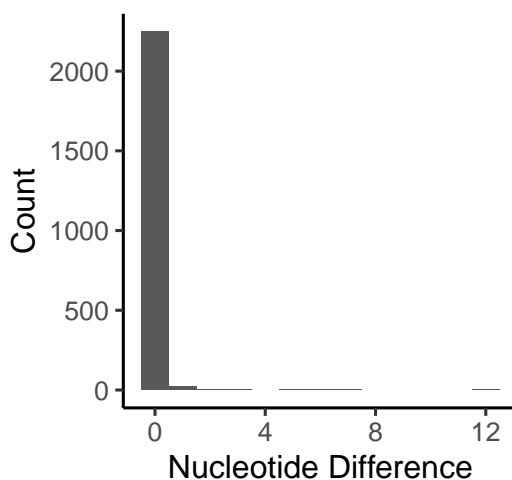
### TRBV10-1\*ap01

2634 sequences assigned  
2608 (99%) exact matches, in which:  
2572 unique CDR3  
13 unique J



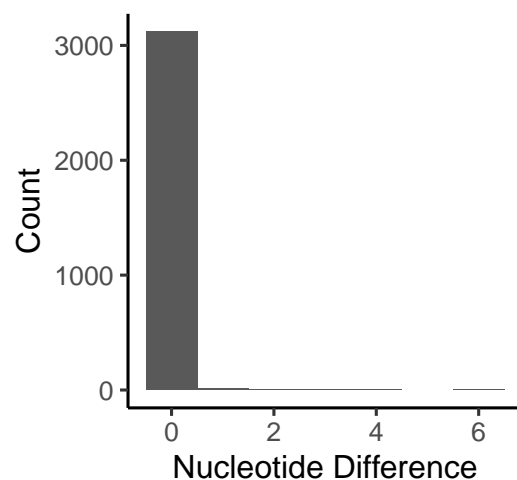
### TRBV10-3\*ap01

2274 sequences assigned  
2247 (98.8%) exact matches, in which:  
2226 unique CDR3  
13 unique J



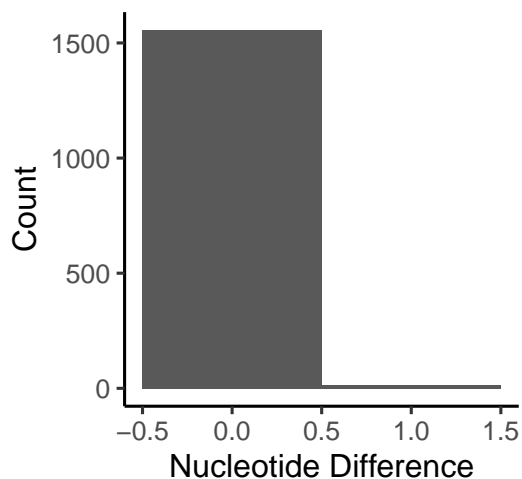
### TRBV14\*ap01

3139 sequences assigned  
3119 (99.4%) exact matches, in which:  
3106 unique CDR3  
13 unique J



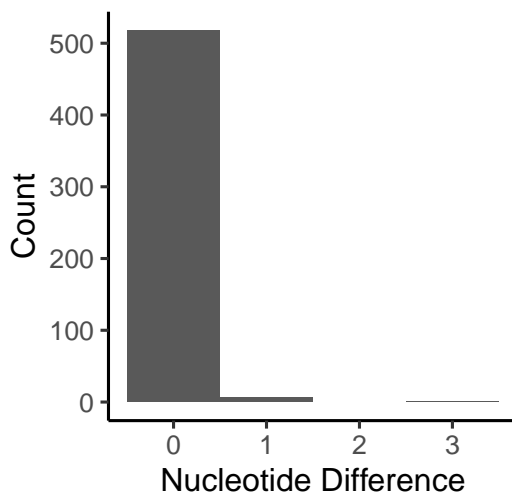
### TRBV20-1\*ap02

1570 sequences assigned  
1556 (99.1%) exact matches, in which:  
1547 unique CDR3  
13 unique J



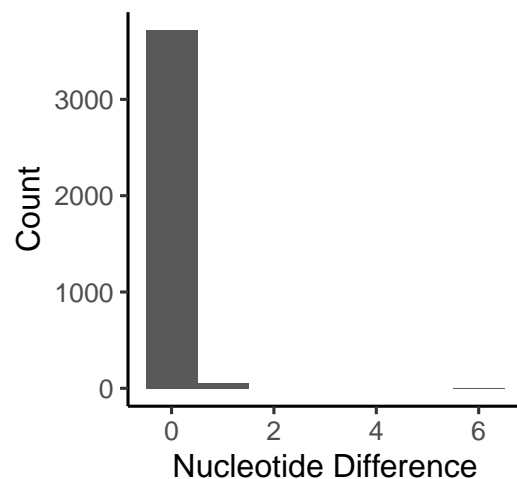
### TRBV1\*ap01

525 sequences assigned  
518 (98.7%) exact matches, in which:  
508 unique CDR3  
13 unique J



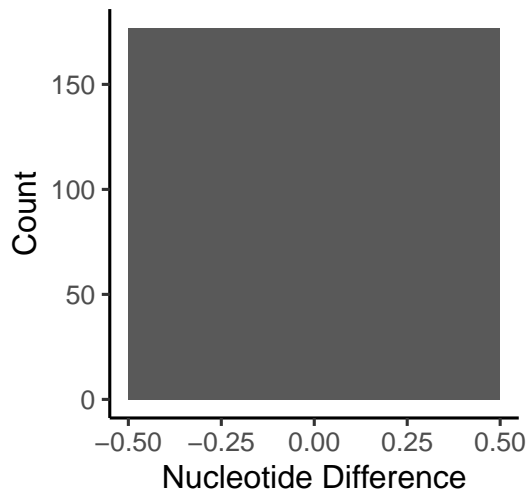
### TRBV15\*ap02

3776 sequences assigned  
3720 (98.5%) exact matches, in which:  
3682 unique CDR3  
13 unique J



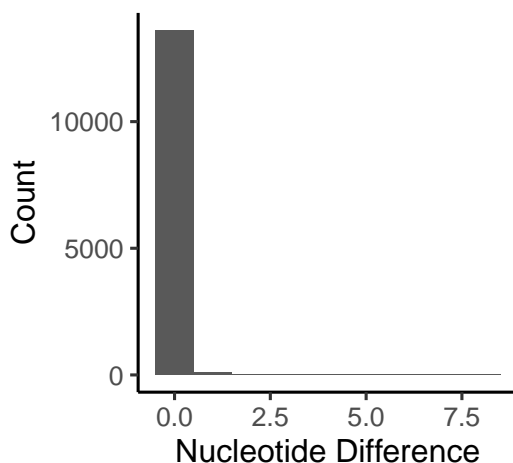
### TRBV16\*ap01

177 sequences assigned  
177 (100%) exact matches, in which:  
177 unique CDR3  
13 unique J



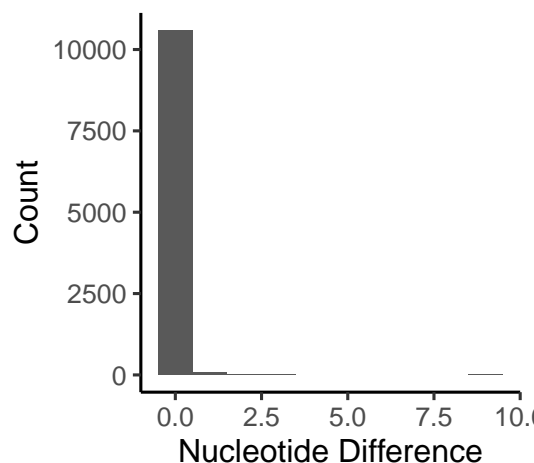
### TRBV19\*ap01

13708 sequences assigned  
13611 (99.3%) exact matches, in which:  
13562 unique CDR3  
13 unique J



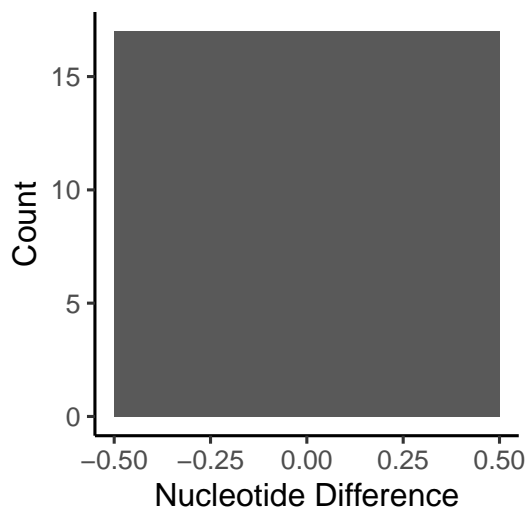
### TRBV27\*ap01

10682 sequences assigned  
10595 (99.2%) exact matches, in which:  
10509 unique CDR3  
13 unique J



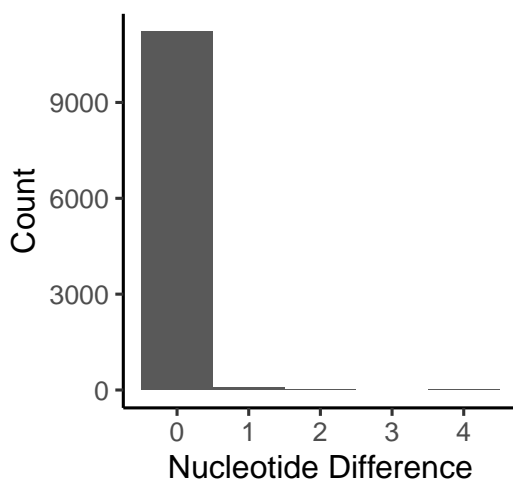
### TRBV17\*ap01

17 sequences assigned  
17 (100%) exact matches, in which:  
17 unique CDR3  
8 unique J



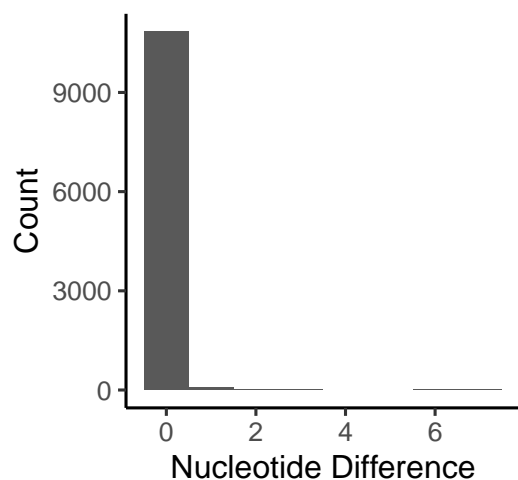
### TRBV2\*ap01

11311 sequences assigned  
11214 (99.1%) exact matches, in which:  
11126 unique CDR3  
13 unique J



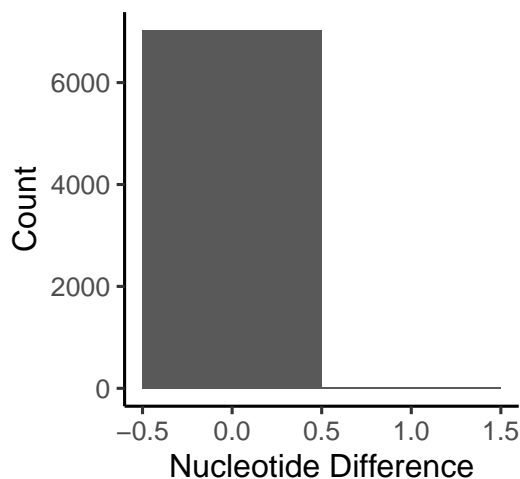
### TRBV28\*ap01

10921 sequences assigned  
10837 (99.2%) exact matches, in which:  
10786 unique CDR3  
13 unique J



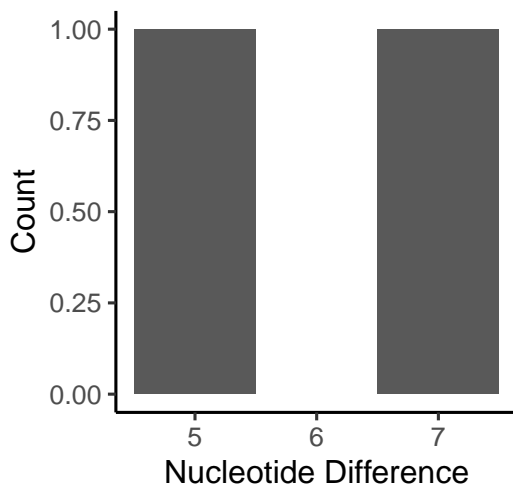
### TRBV18\*ap01

7058 sequences assigned  
7031 (99.6%) exact matches, in which:  
7011 unique CDR3  
13 unique J



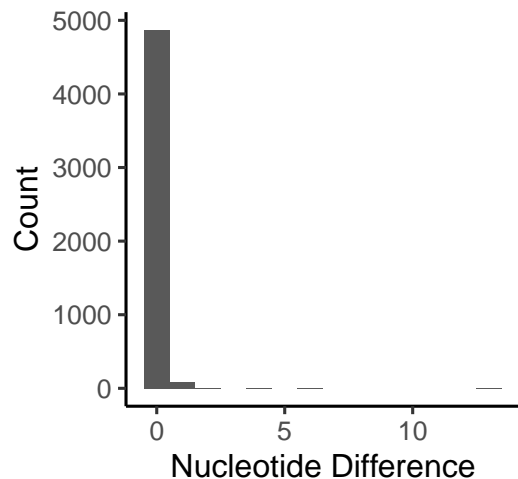
### TRBV26\*ap01

2 sequences assigned  
No exact matches.



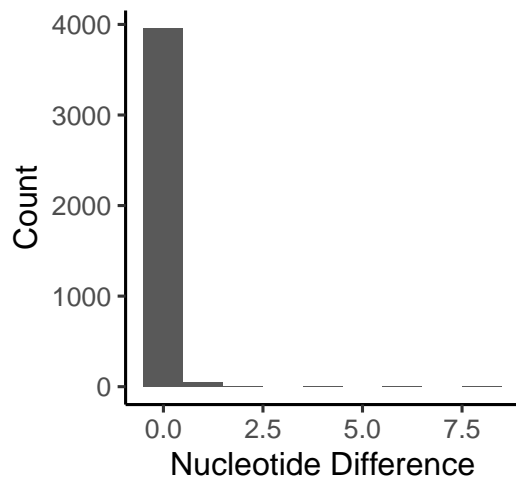
### TRBV30\*ap01

4956 sequences assigned  
4868 (98.2%) exact matches, in which:  
4797 unique CDR3  
13 unique J



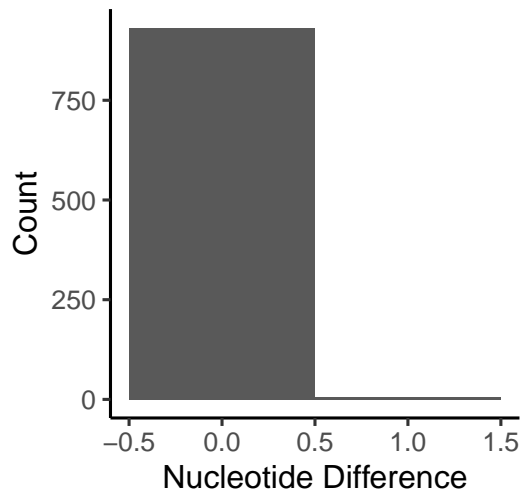
### TRBV30\*ap02

4015 sequences assigned  
3956 (98.5%) exact matches, in which:  
3886 unique CDR3  
13 unique J



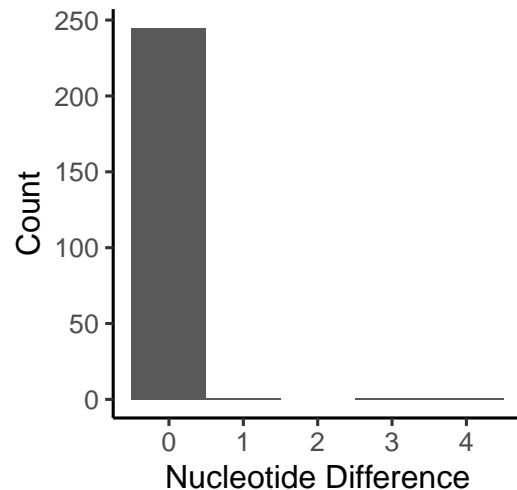
### TRBV11-1\*ap01

938 sequences assigned  
932 (99.4%) exact matches, in which:  
928 unique CDR3  
13 unique J



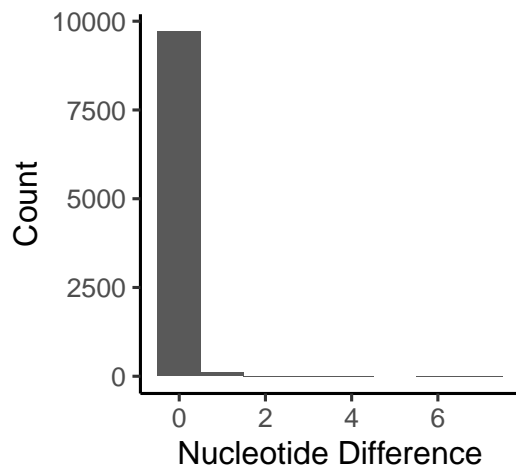
### TRBV12-1\*ap01

248 sequences assigned  
245 (98.8%) exact matches, in which:  
244 unique CDR3  
13 unique J



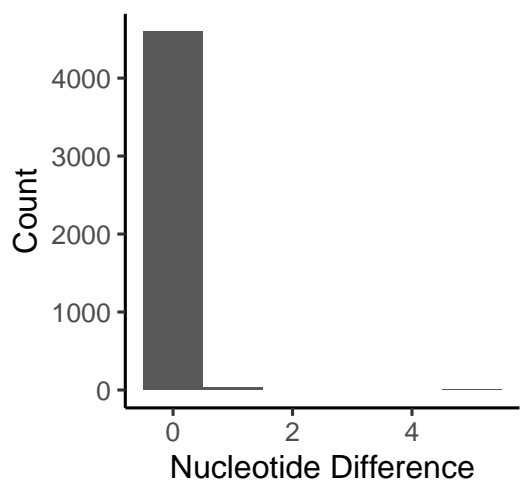
### TRBV9\*ap01

9828 sequences assigned  
9711 (98.8%) exact matches, in which:  
9658 unique CDR3  
13 unique J



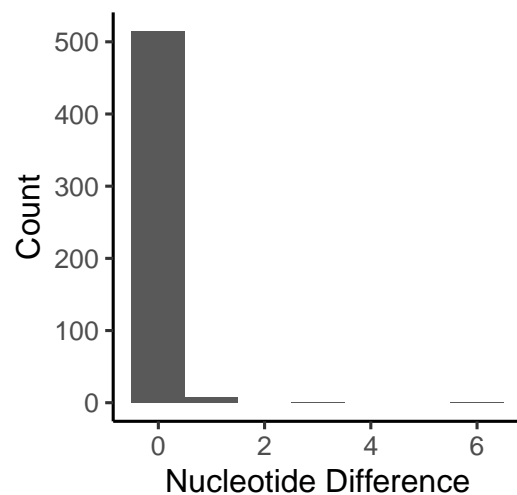
### TRBV11-2\*ap01

4629 sequences assigned  
4595 (99.3%) exact matches, in which:  
4573 unique CDR3  
13 unique J



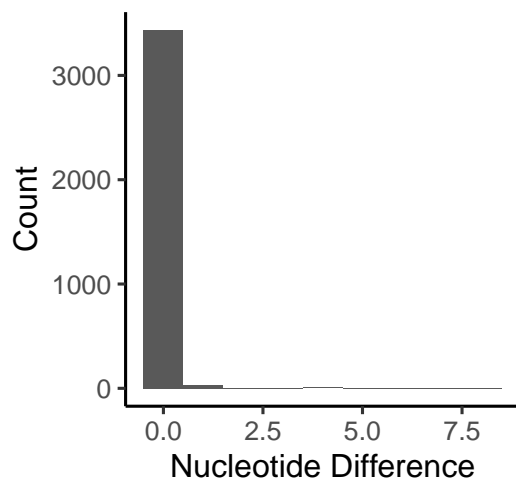
### TRBV12-2\*ap01

524 sequences assigned  
515 (98.3%) exact matches, in which:  
507 unique CDR3  
13 unique J



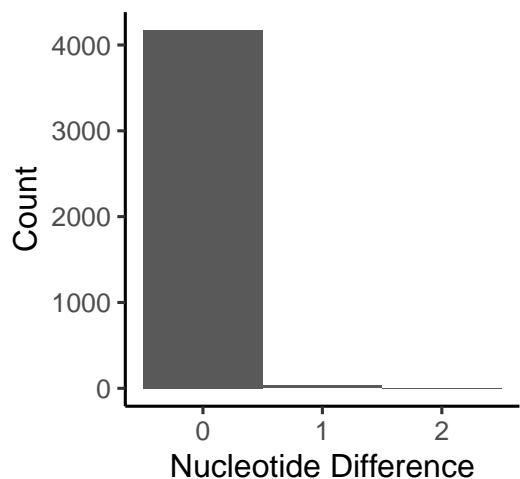
### TRBV21-1\*ap01

3486 sequences assigned  
3435 (98.5%) exact matches, in which:  
3427 unique CDR3  
13 unique J



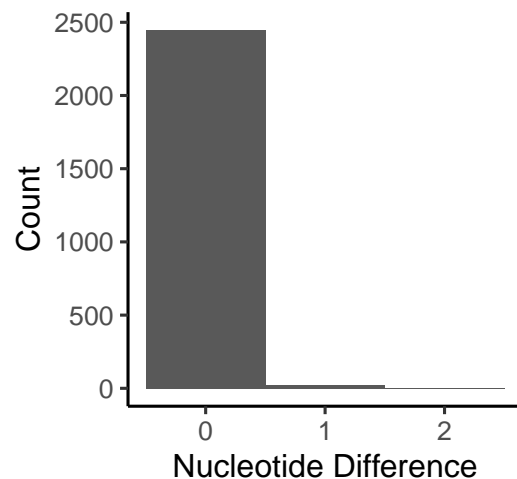
### TRBV11-3\*ap01

4207 sequences assigned  
4174 (99.2%) exact matches, in which:  
4147 unique CDR3  
13 unique J



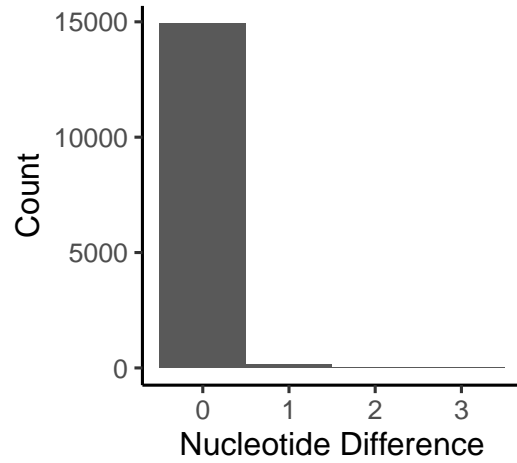
### TRBV12-5\*ap01

2470 sequences assigned  
2447 (99.1%) exact matches, in which:  
2423 unique CDR3  
13 unique J



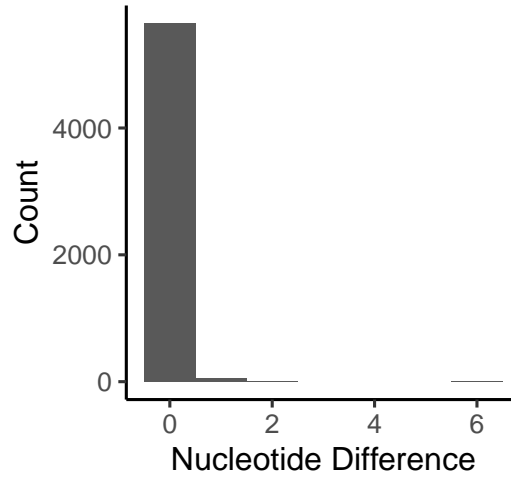
### TRBV12-34\*ap01

15083 sequences assigned  
14942 (99.1%) exact matches, in which:  
14815 unique CDR3  
13 unique J



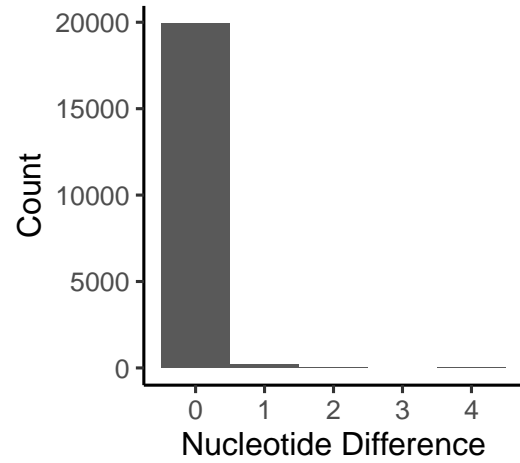
### TRBV4-1\*ap01

5710 sequences assigned  
5649 (98.9%) exact matches, in which:  
5577 unique CDR3  
13 unique J



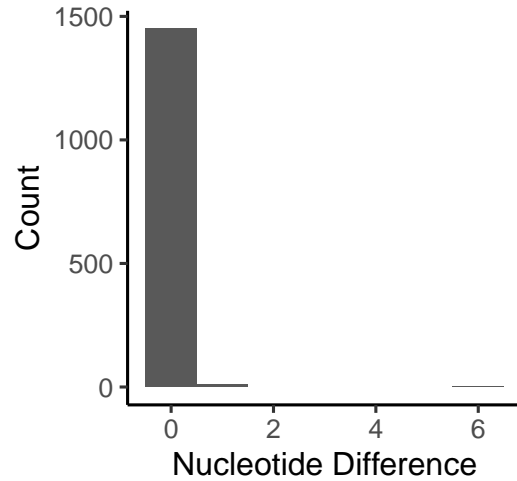
### TRBV5-1\*ap01

20173 sequences assigned  
19948 (98.9%) exact matches, in which:  
19753 unique CDR3  
13 unique J



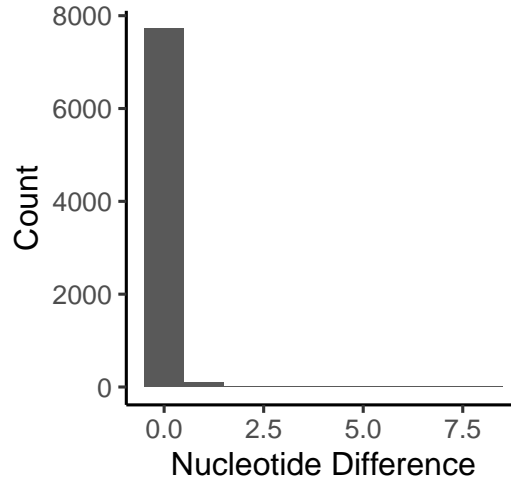
### TRBV23-1\*ap01

1461 sequences assigned  
1450 (99.2%) exact matches, in which:  
1439 unique CDR3  
13 unique J



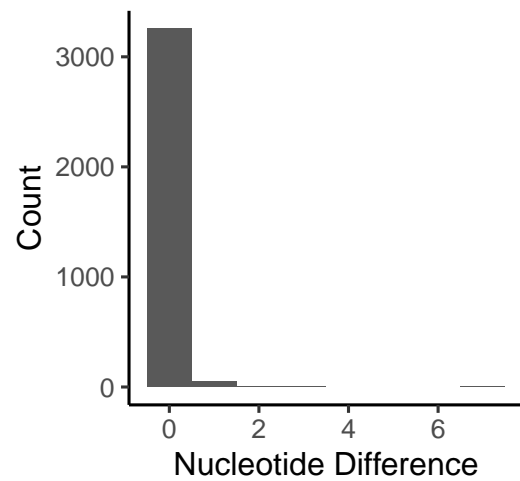
### TRBV24-1\*ap01

7833 sequences assigned  
7719 (98.5%) exact matches, in which:  
7634 unique CDR3  
13 unique J



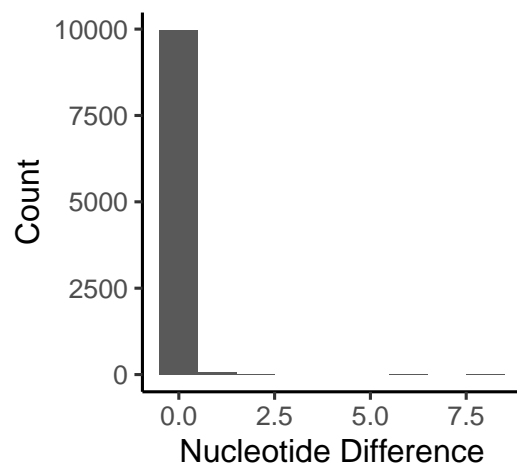
### TRBV25-1\*ap01

3308 sequences assigned  
3255 (98.4%) exact matches, in which:  
3211 unique CDR3  
13 unique J



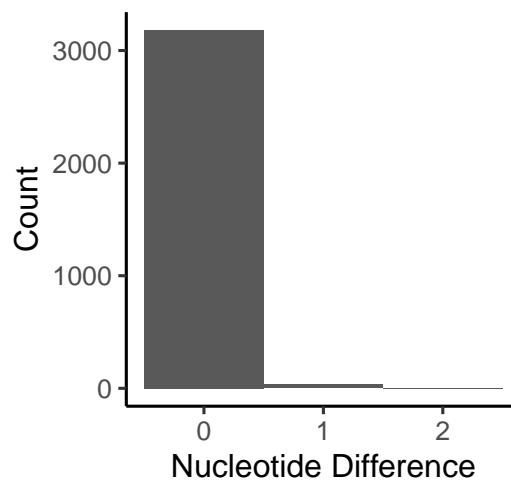
### TRBV3-12\*ap01

10055 sequences assigned  
9980 (99.3%) exact matches, in which:  
9939 unique CDR3  
13 unique J



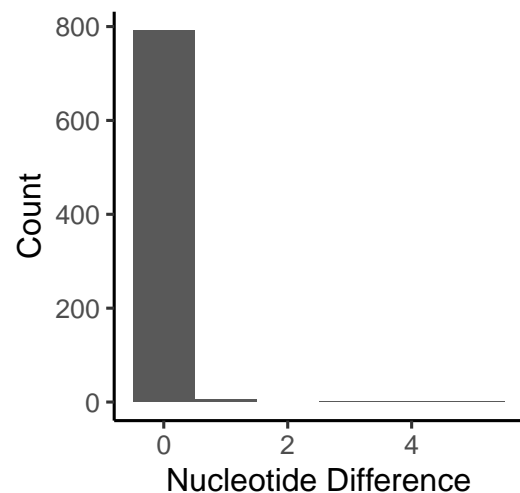
### TRBV4-2\*ap01

3217 sequences assigned  
3182 (98.9%) exact matches, in which:  
3153 unique CDR3  
13 unique J



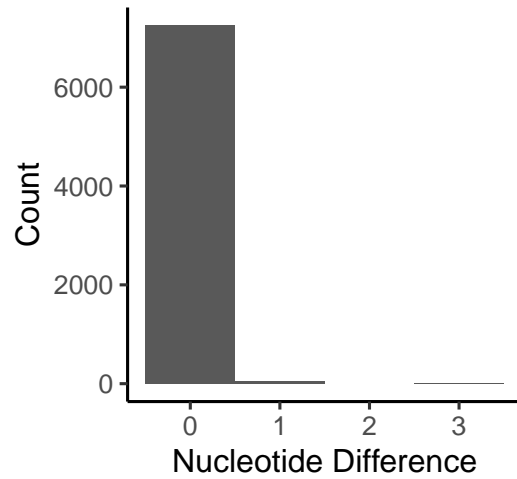
### TRBV5-3\*ap01

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



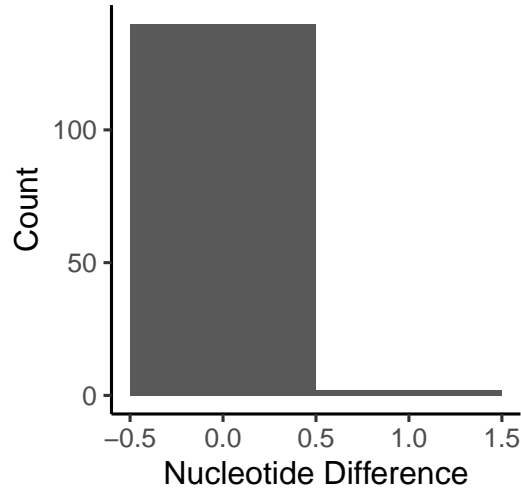
### TRBV5-4\*ap01

7305 sequences assigned  
7250 (99.2%) exact matches, in which:  
7177 unique CDR3  
13 unique J



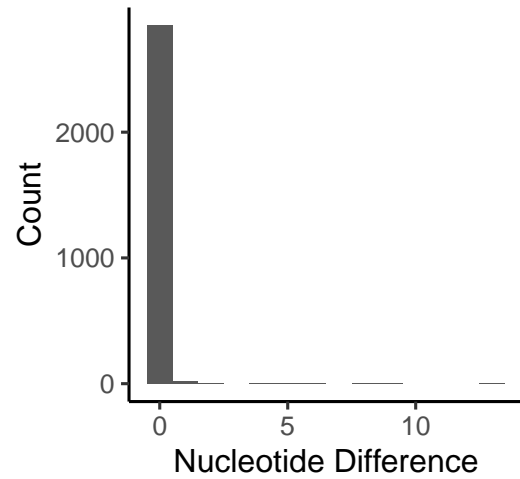
### TRBV5-7\*ap01

142 sequences assigned  
140 (98.6%) exact matches, in which:  
137 unique CDR3  
13 unique J



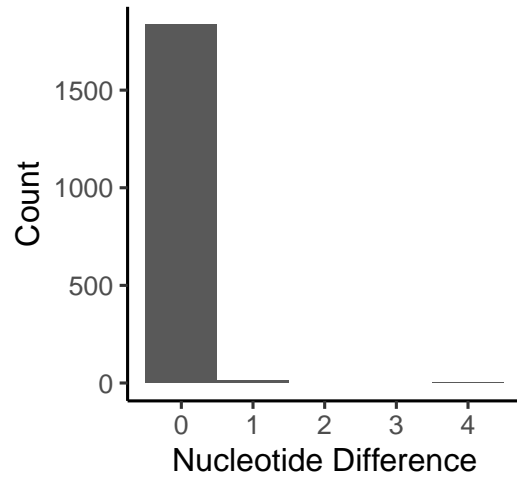
### TRBV6-4\*ap01

2881 sequences assigned  
2849 (98.9%) exact matches, in which:  
2826 unique CDR3  
13 unique J



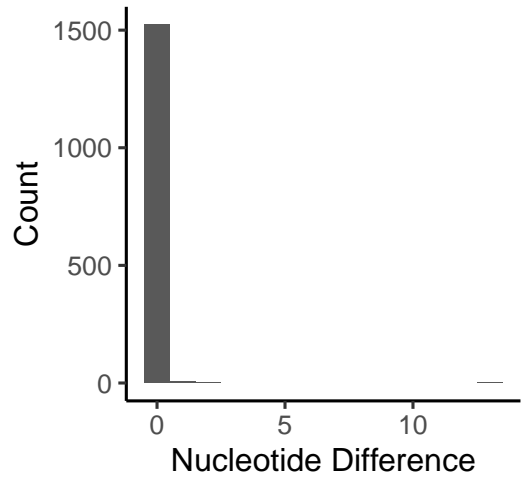
### TRBV5-5\*ap01

1850 sequences assigned  
1835 (99.2%) exact matches, in which:  
1830 unique CDR3  
13 unique J



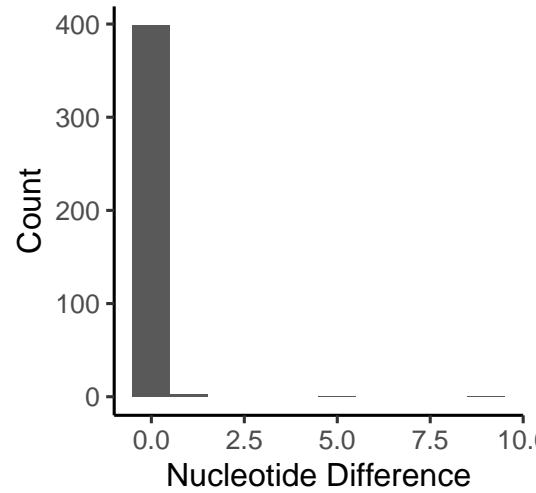
### TRBV5-8\*ap01

1534 sequences assigned  
1523 (99.3%) exact matches, in which:  
1515 unique CDR3  
13 unique J



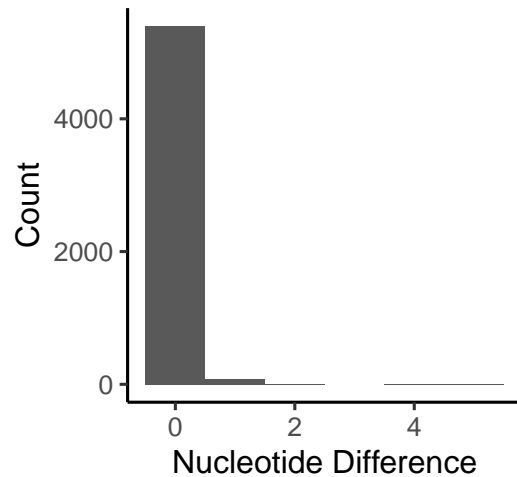
### TRBV6-7\*ap01

404 sequences assigned  
399 (98.8%) exact matches, in which:  
392 unique CDR3  
13 unique J



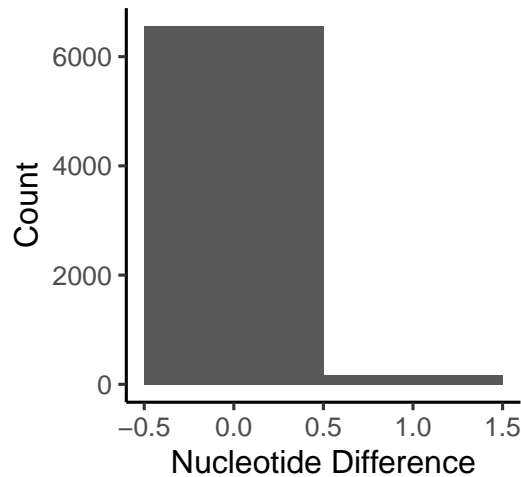
### TRBV5-6\*ap01

5486 sequences assigned  
5398 (98.4%) exact matches, in which:  
5316 unique CDR3  
13 unique J



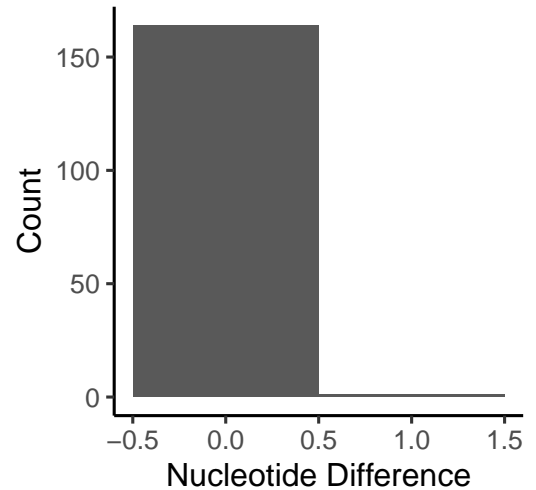
### TRBV6-1\*ap01

6726 sequences assigned  
6560 (97.5%) exact matches, in which:  
6484 unique CDR3  
13 unique J



### TRBV6-8\*ap01

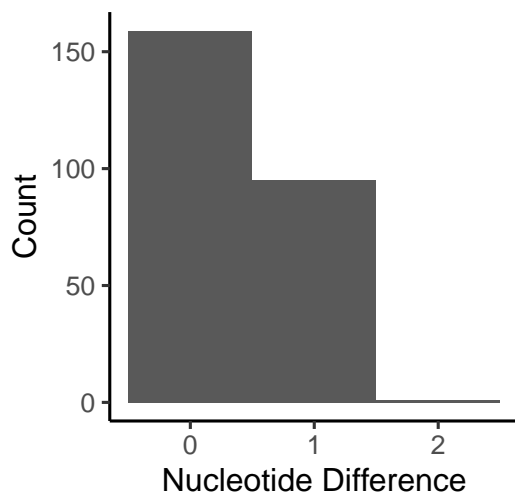
165 sequences assigned  
164 (99.4%) exact matches, in which:  
160 unique CDR3  
13 unique J





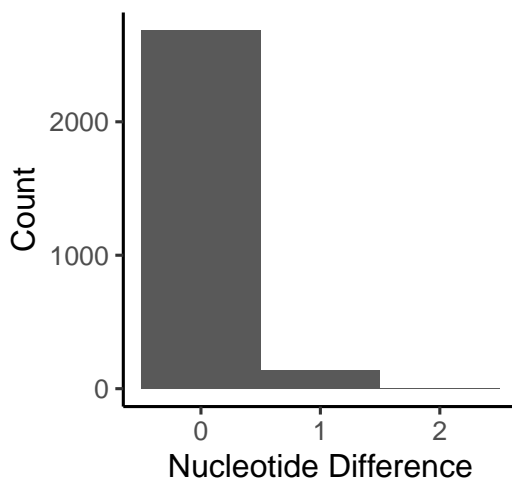
### TRBV6–9\*ap01

255 sequences assigned  
159 (62.4%) exact matches, in which:  
156 unique CDR3  
13 unique J



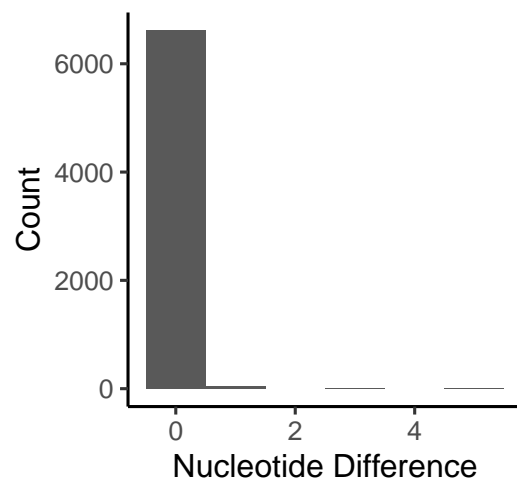
### TRBV6–56\*ap02

2828 sequences assigned  
2685 (94.9%) exact matches, in which:  
2638 unique CDR3  
13 unique J



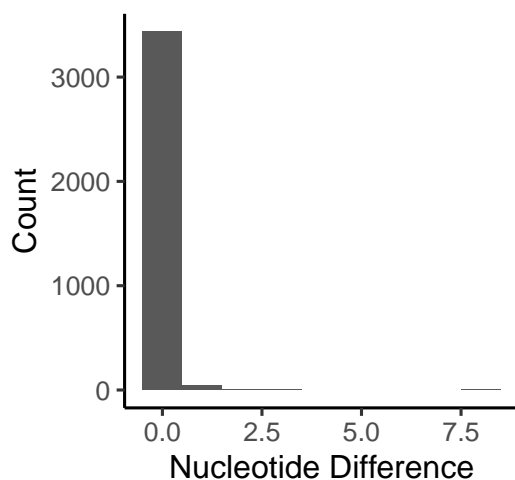
### TRBV7–2\*ap01

6662 sequences assigned  
6616 (99.3%) exact matches, in which:  
6570 unique CDR3  
13 unique J



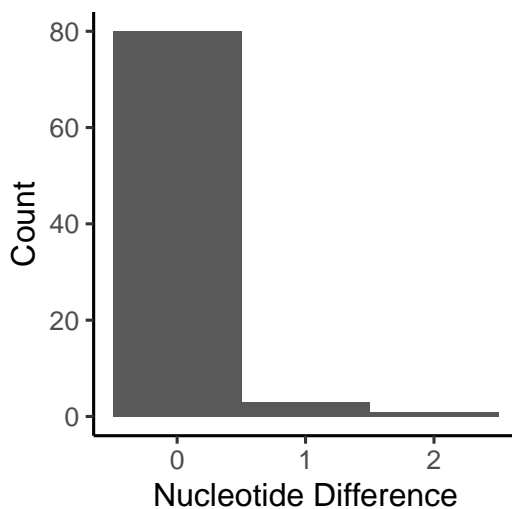
### TRBV6–23\*ap01

3481 sequences assigned  
3435 (98.7%) exact matches, in which:  
3367 unique CDR3  
13 unique J



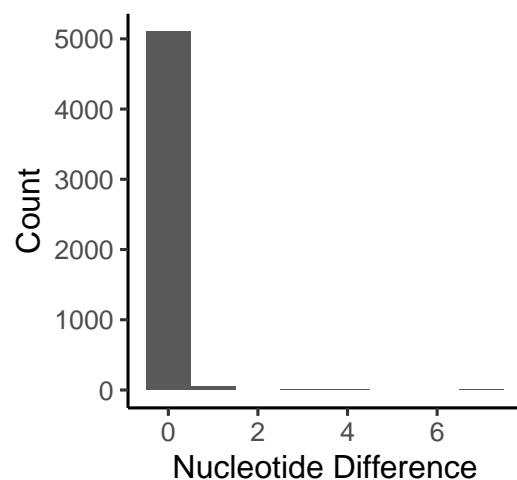
### TRBV7–1\*ap01\_G291C\_T

84 sequences assigned  
80 (95.2%) exact matches, in which:  
79 unique CDR3  
12 unique J



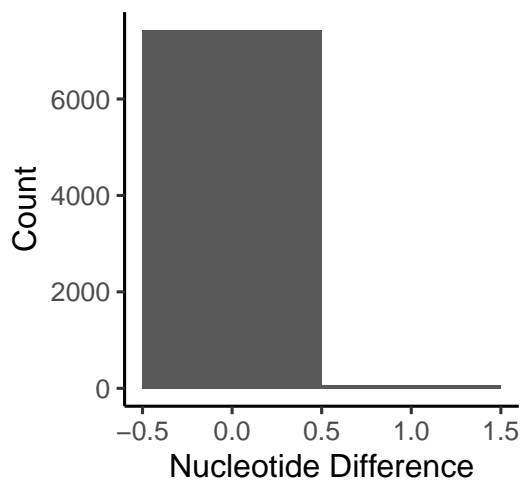
### TRBV7–3\*ap01

5152 sequences assigned  
5101 (99%) exact matches, in which:  
5073 unique CDR3  
13 unique J



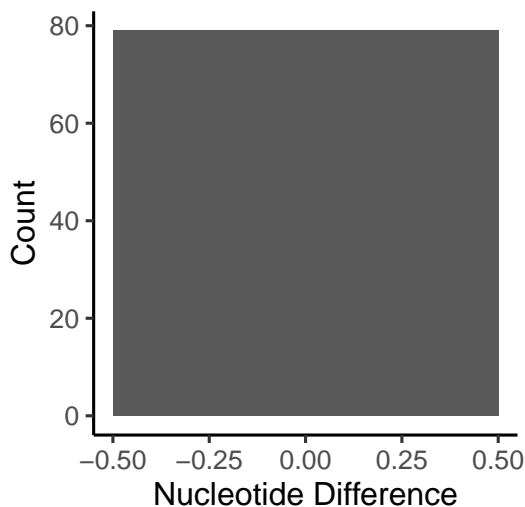
### TRBV6–56\*ap01

7504 sequences assigned  
7430 (99%) exact matches, in which:  
7343 unique CDR3  
13 unique J



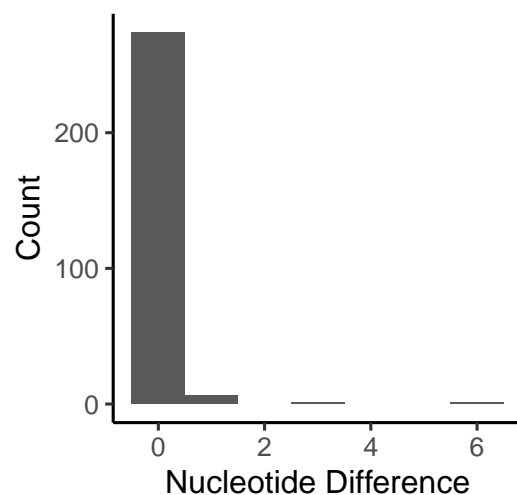
### TRBV7–1\*ap01\_G291C\_T

79 sequences assigned  
79 (100%) exact matches, in which:  
78 unique CDR3  
13 unique J



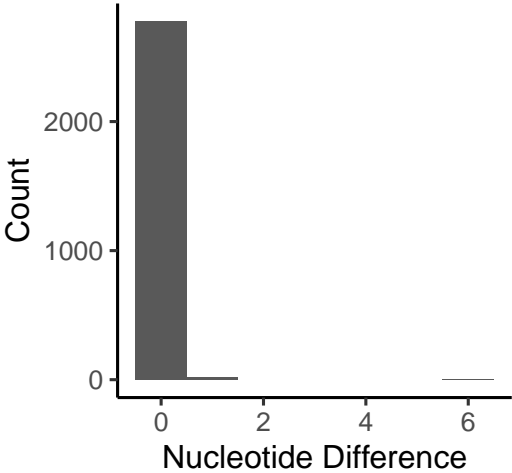
### TRBV7–4\*ap01

282 sequences assigned  
274 (97.2%) exact matches, in which:  
273 unique CDR3  
13 unique J



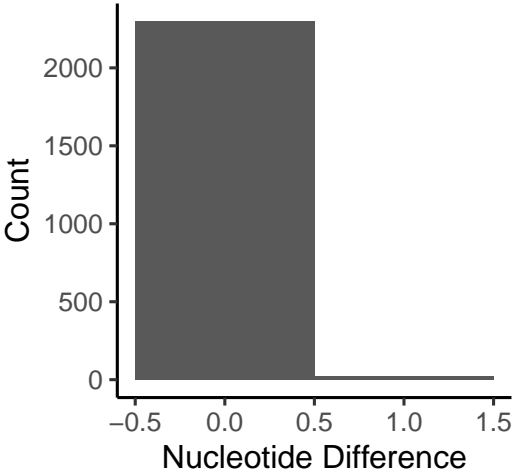
TRBV7-6\*ap01

2799 sequences assigned  
2776 (99.2%) exact matches, in which:  
2747 unique CDR3  
13 unique J



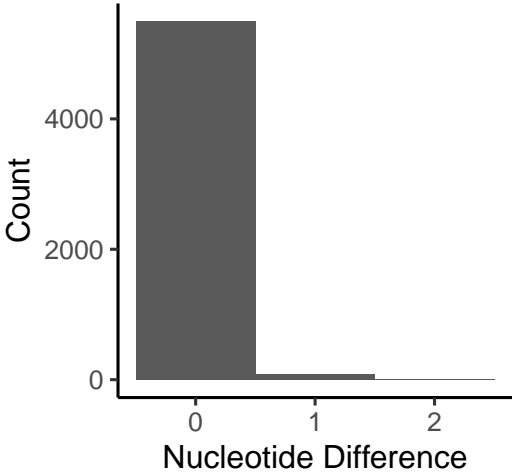
TRBV7-8\*ap01

2318 sequences assigned  
2298 (99.1%) exact matches, in which:  
2284 unique CDR3  
13 unique J



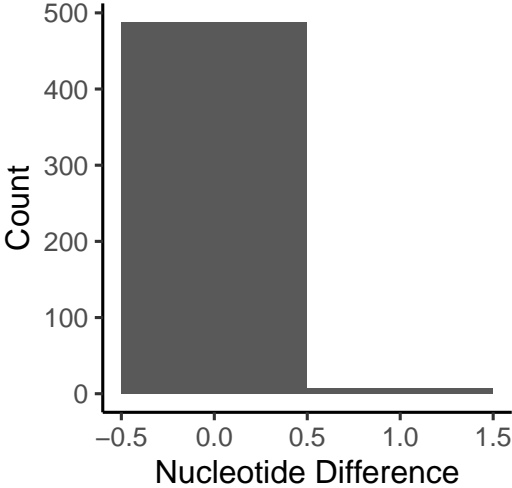
TRBV29-1\*ap01

5582 sequences assigned  
5495 (98.4%) exact matches, in which:  
5382 unique CDR3  
13 unique J



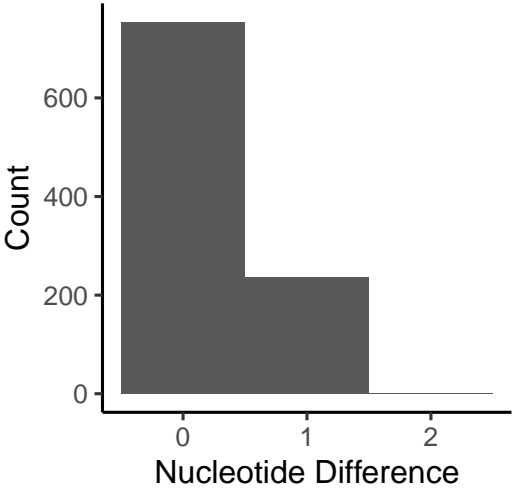
TRBV7-7\*ap01

495 sequences assigned  
488 (98.6%) exact matches, in which:  
485 unique CDR3  
13 unique J



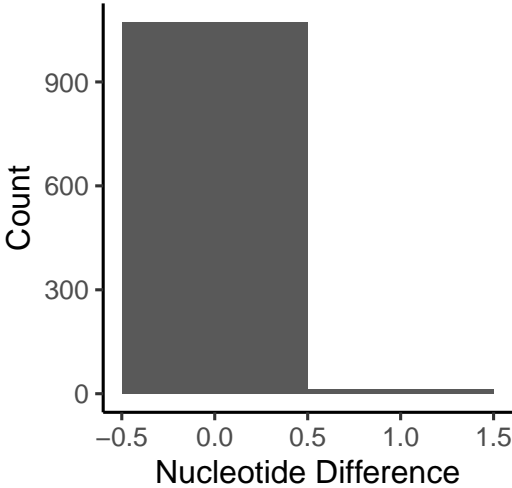
TRBV7-8\*ap03

991 sequences assigned  
754 (76.1%) exact matches, in which:  
748 unique CDR3  
13 unique J



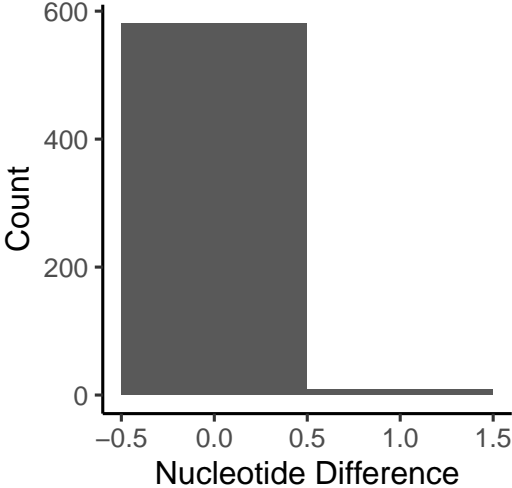
TRBV29-1\*ap02

1086 sequences assigned  
1073 (98.8%) exact matches, in which:  
1047 unique CDR3  
13 unique J



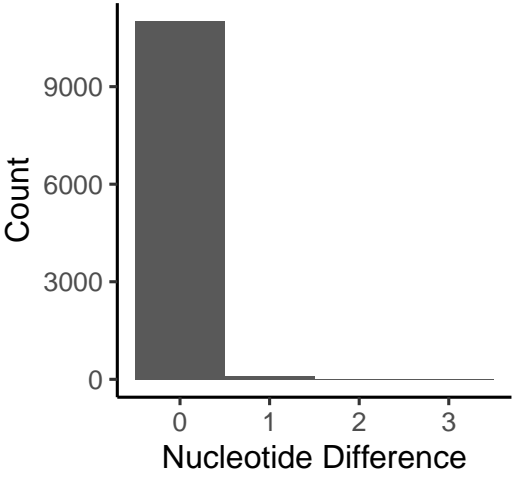
TRBV7-7\*ap01\_C315T

589 sequences assigned  
581 (98.6%) exact matches, in which:  
573 unique CDR3  
13 unique J

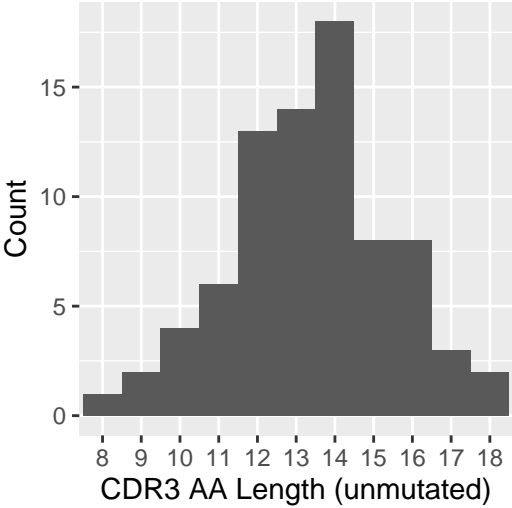


TRBV7-9\*ap01

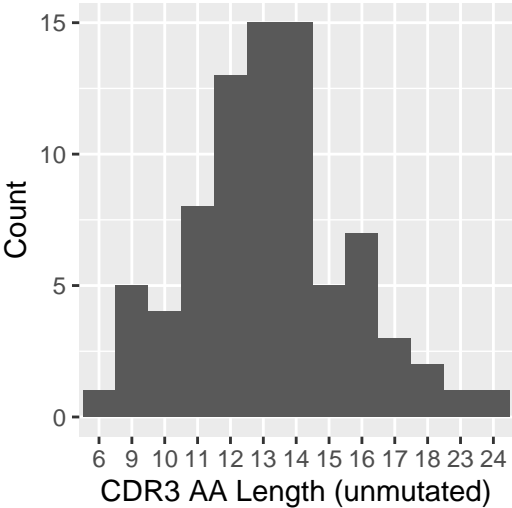
11121 sequences assigned  
11017 (99.1%) exact matches, in which:  
10949 unique CDR3  
13 unique J



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



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

