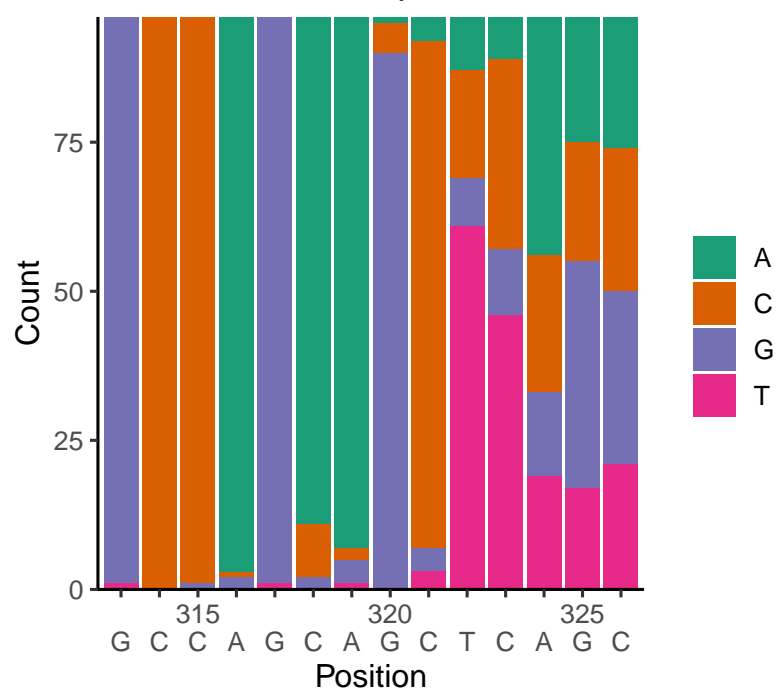
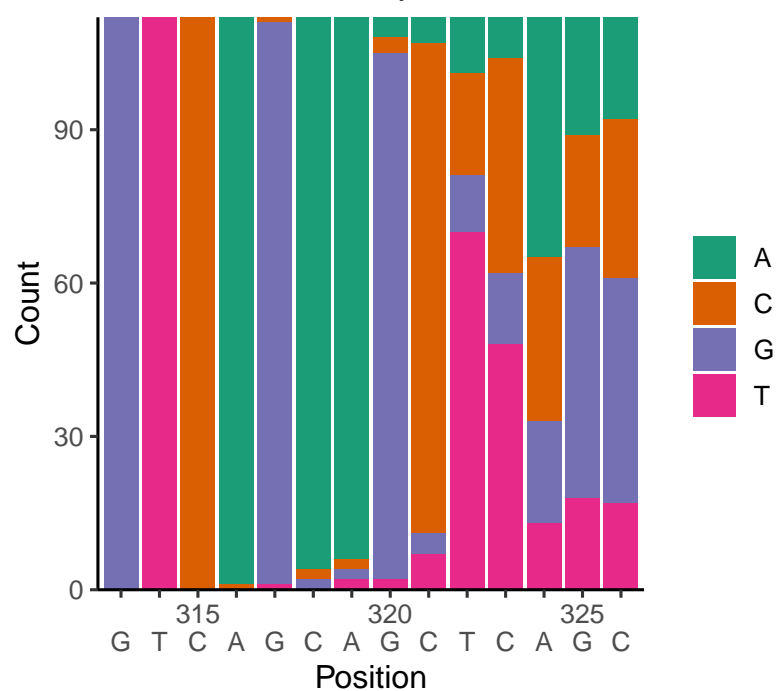


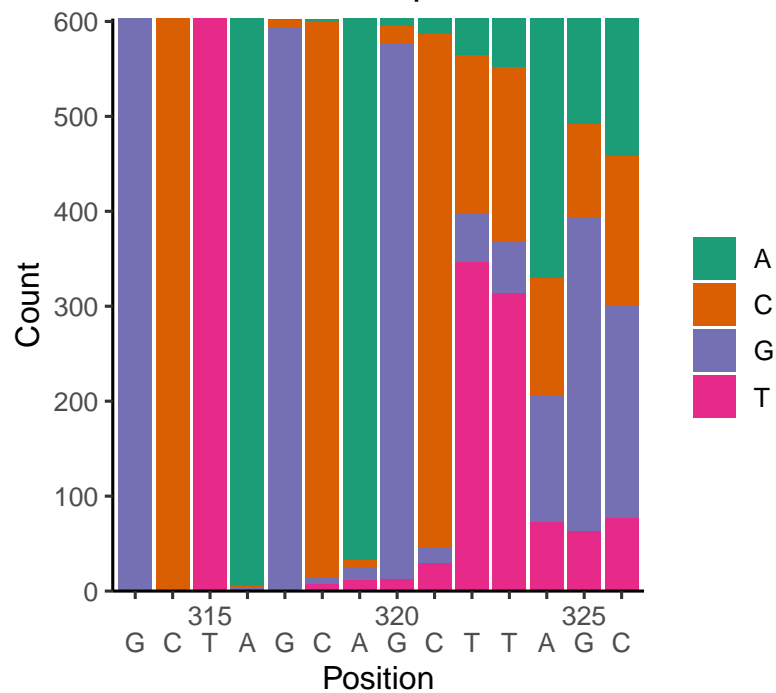
Gene TRBV7-1\*ap01\_G291C\_T296C



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



Gene TRBV7-7\*ap01\_C315T



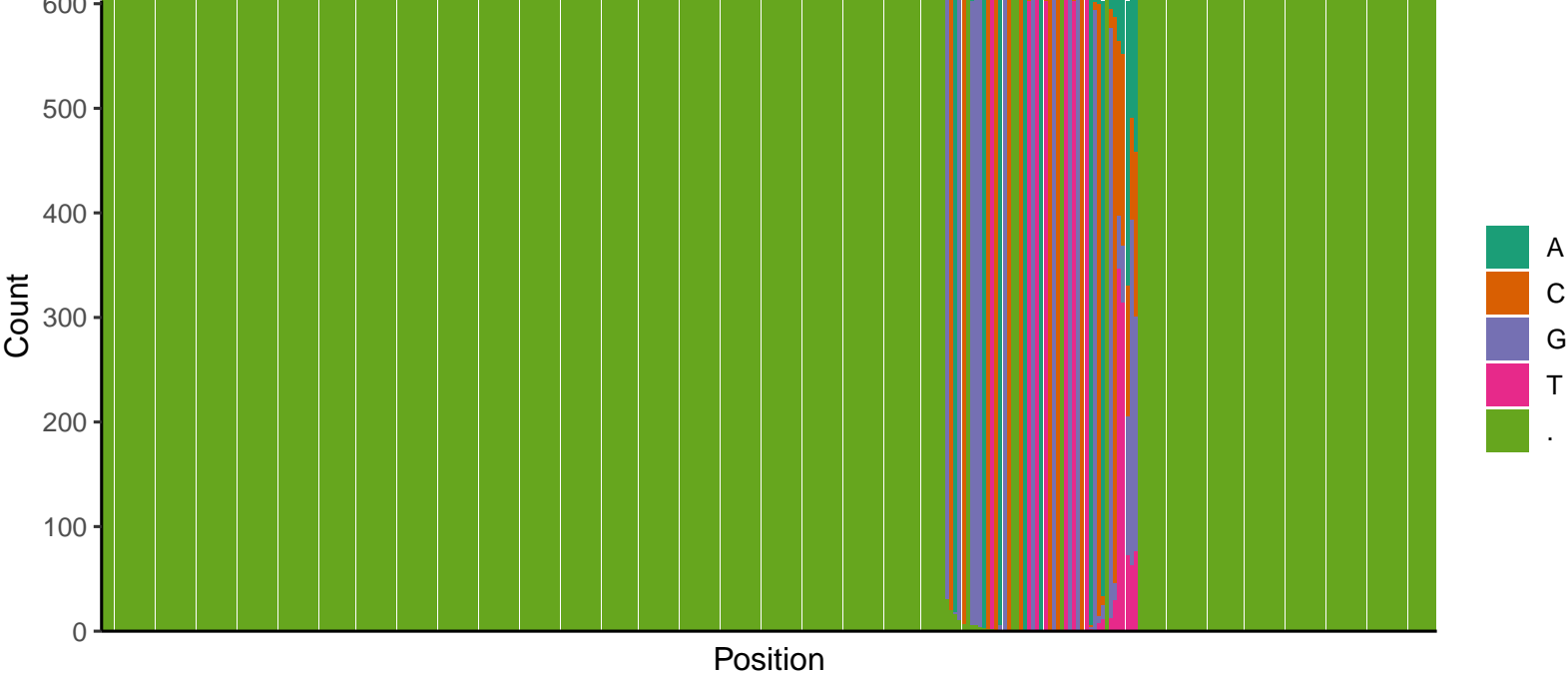
Gene TRBV7-1\*ap01\_G291C\_T296C



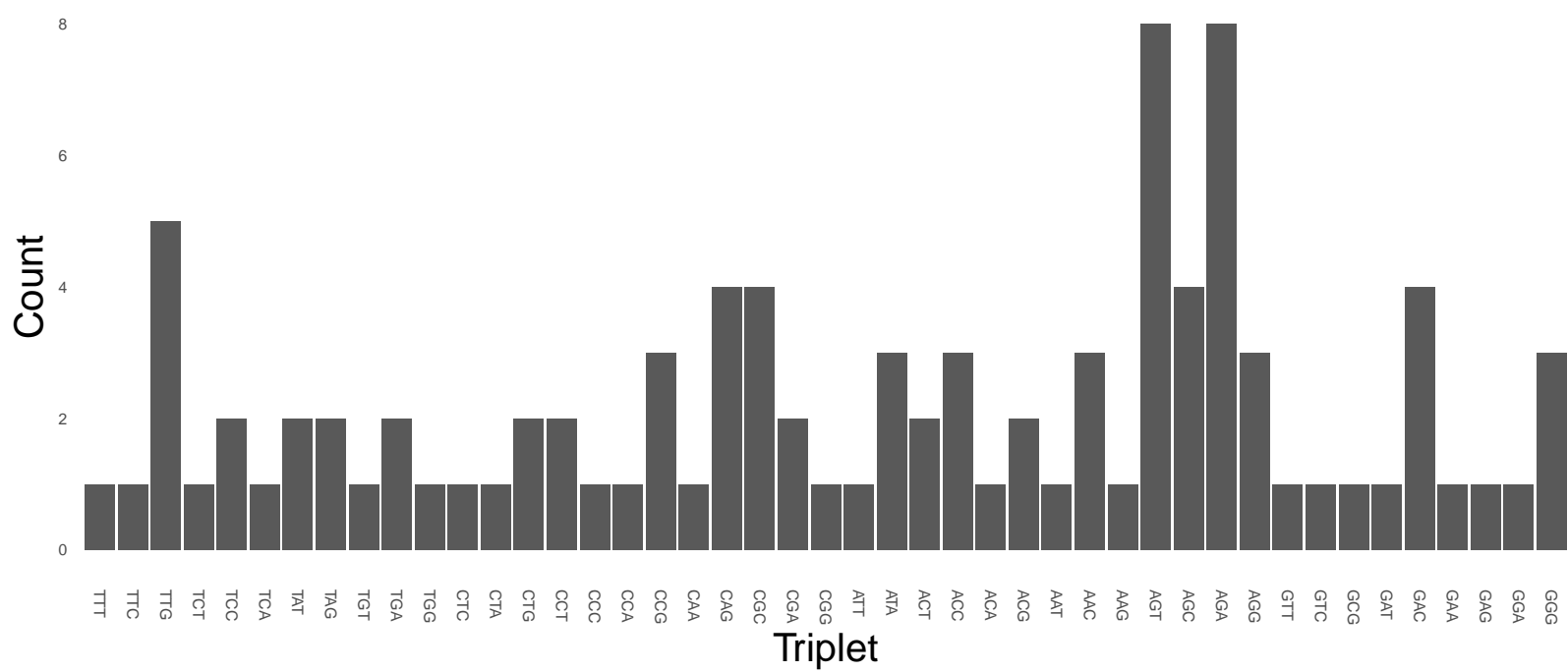
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



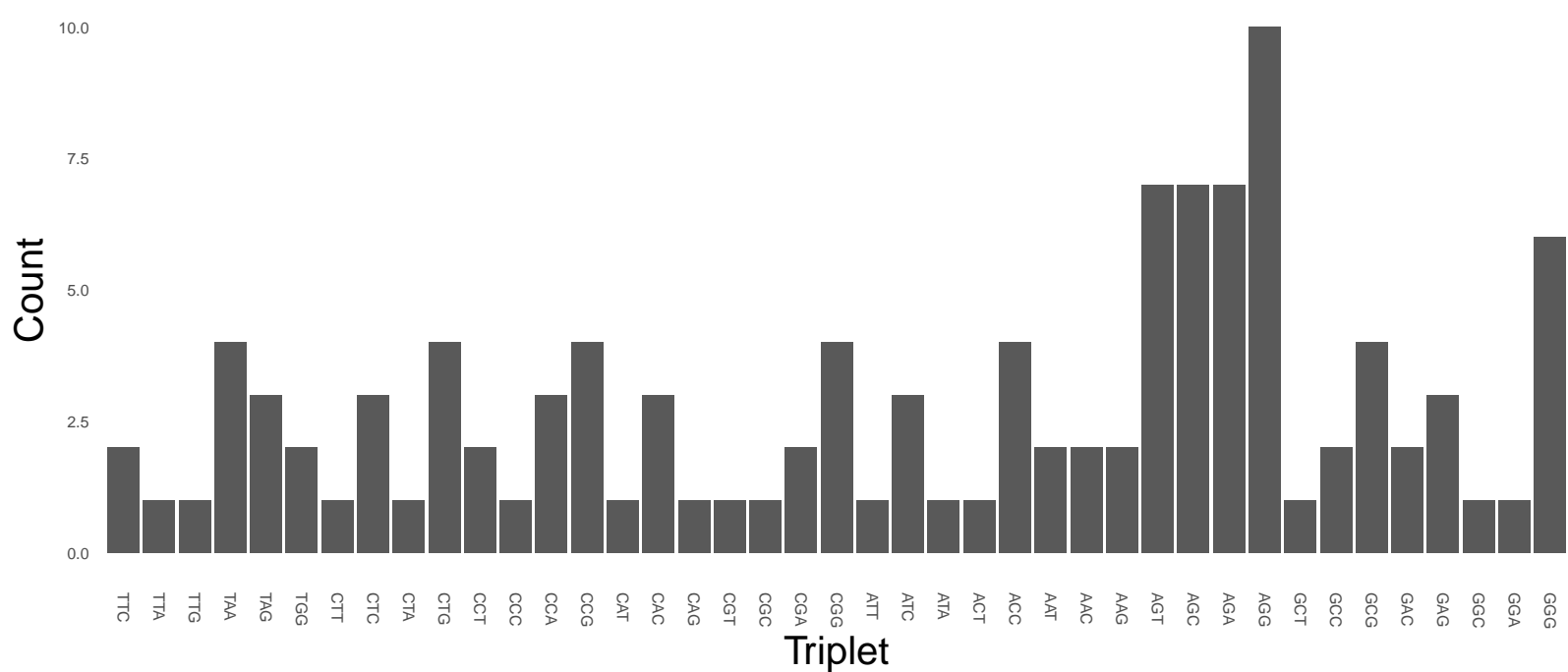
Gene TRBV7-7\*ap01\_C315T



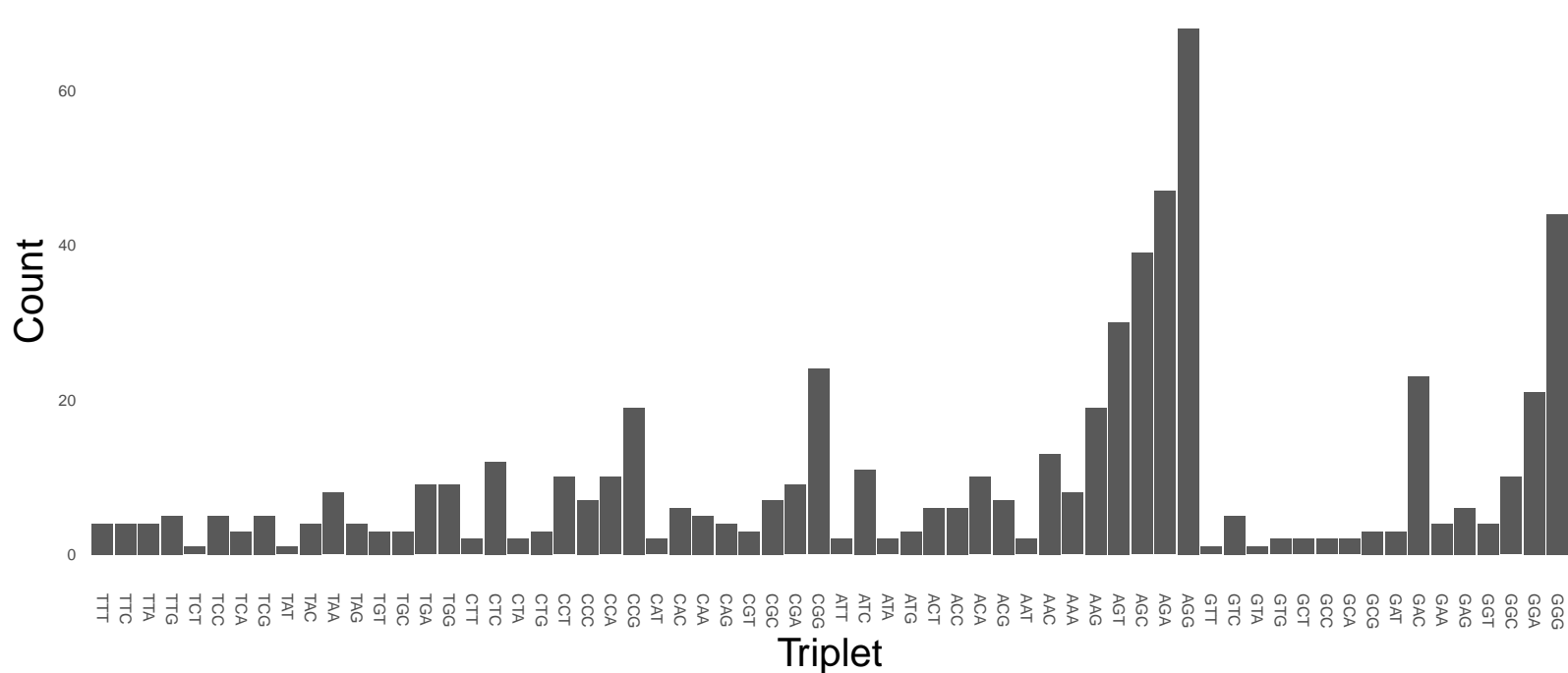
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



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

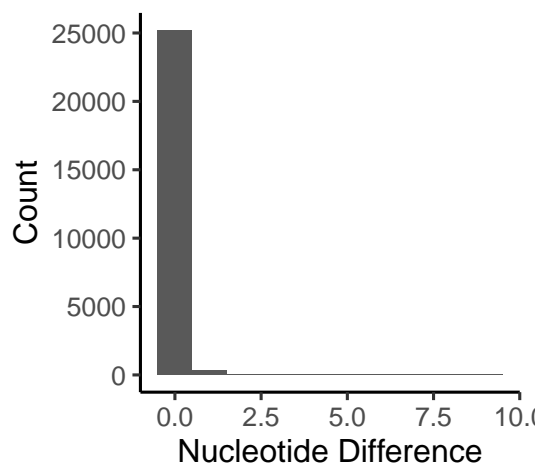


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



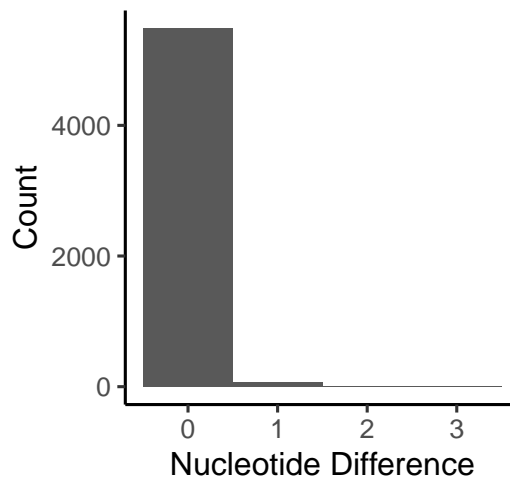
### TRBV20-1\*ap01

25546 sequences assigned  
25207 (98.7%) exact matches, in which:  
24792 unique CDR3  
13 unique J



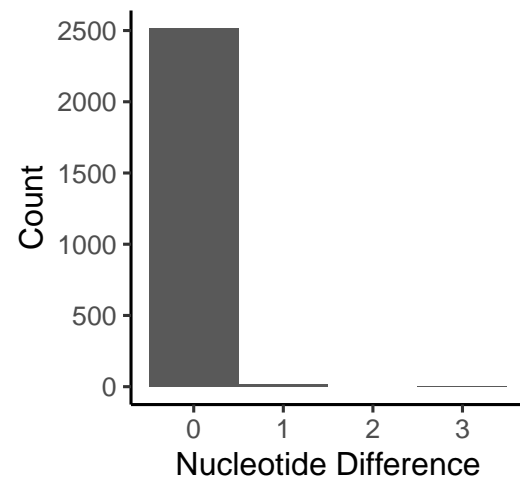
### TRBV10-3\*ap01

5549 sequences assigned  
5484 (98.8%) exact matches, in which:  
5384 unique CDR3  
13 unique J



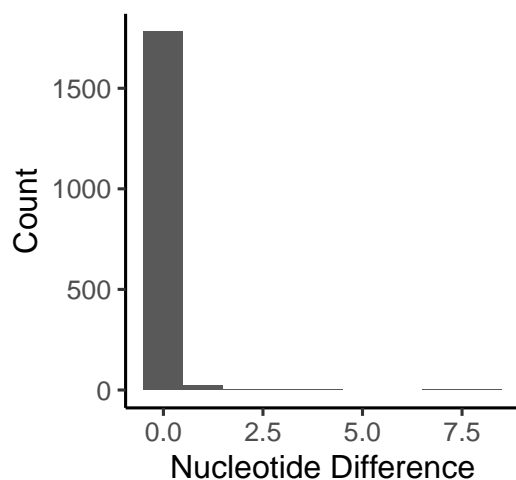
### TRBV14\*ap01

2533 sequences assigned  
2515 (99.3%) exact matches, in which:  
2465 unique CDR3  
13 unique J



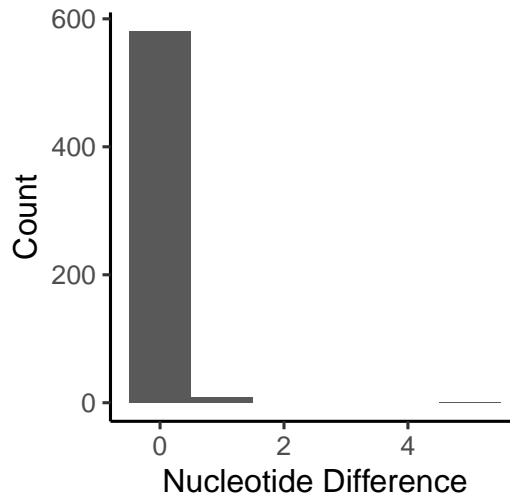
### TRBV10-1\*ap01

1811 sequences assigned  
1781 (98.3%) exact matches, in which:  
1747 unique CDR3  
13 unique J



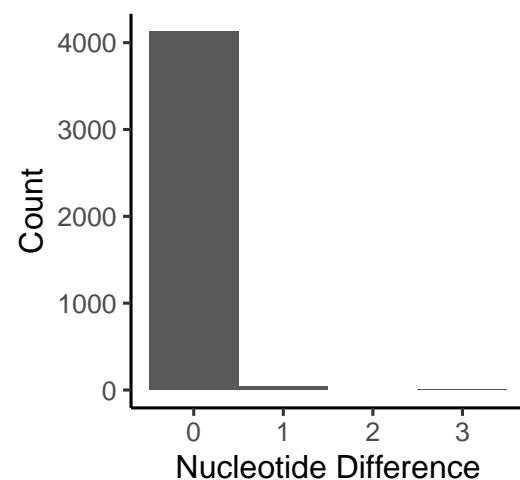
### TRBV1\*ap01

591 sequences assigned  
581 (98.3%) exact matches, in which:  
572 unique CDR3  
13 unique J



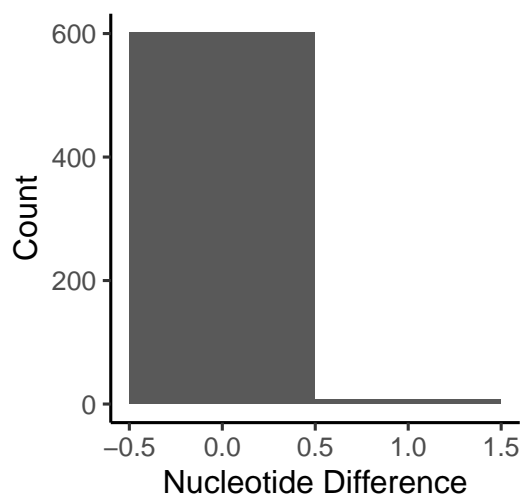
### TRBV15\*ap02

4168 sequences assigned  
4126 (99%) exact matches, in which:  
4038 unique CDR3  
13 unique J



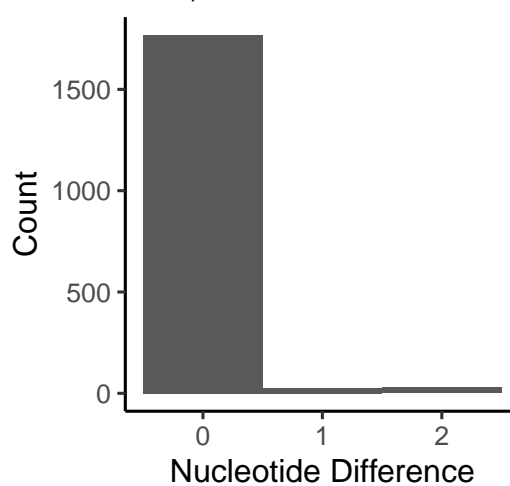
### TRBV10-2\*ap01

610 sequences assigned  
602 (98.7%) exact matches, in which:  
585 unique CDR3  
13 unique J



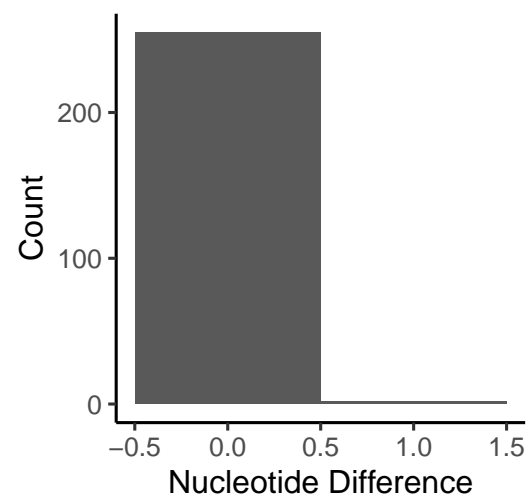
### TRBV13\*ap01

1823 sequences assigned  
1768 (97%) exact matches, in which:  
1722 unique CDR3  
13 unique J



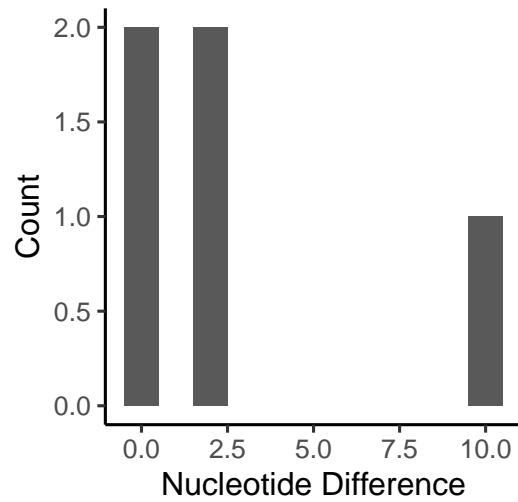
### TRBV16\*ap01

257 sequences assigned  
255 (99.2%) exact matches, in which:  
255 unique CDR3  
13 unique J



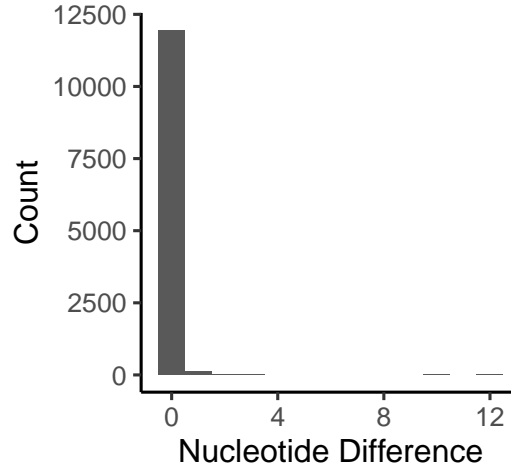
### TRBV17\*ap01

5 sequences assigned  
2 (40%) exact matches, in which:  
1 unique CDR3  
1 unique J



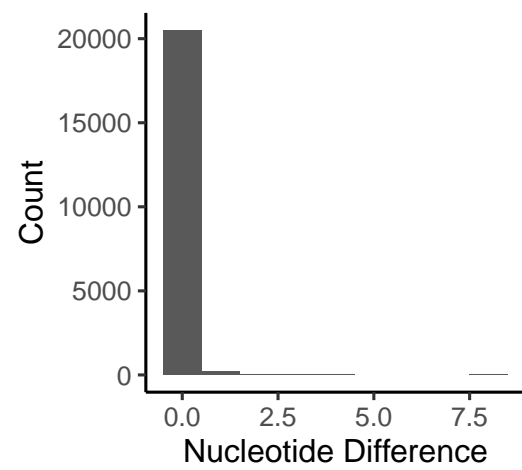
### TRBV2\*ap01

12068 sequences assigned  
11952 (99%) exact matches, in which:  
11738 unique CDR3  
13 unique J



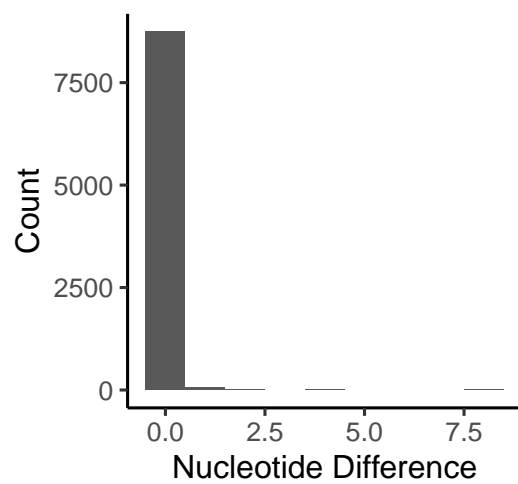
### TRBV28\*ap01

20701 sequences assigned  
20508 (99.1%) exact matches, in which:  
20114 unique CDR3  
13 unique J



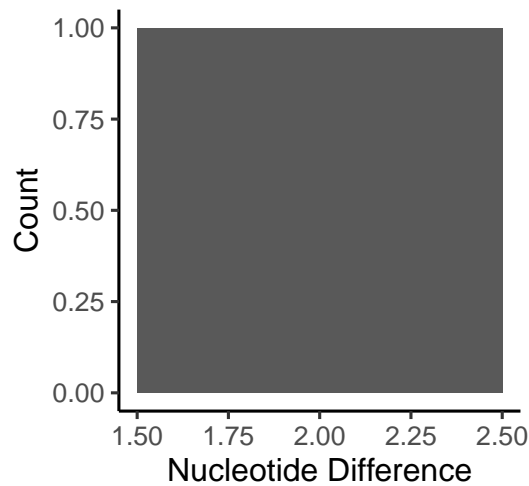
### TRBV18\*ap01

8798 sequences assigned  
8742 (99.4%) exact matches, in which:  
8634 unique CDR3  
13 unique J



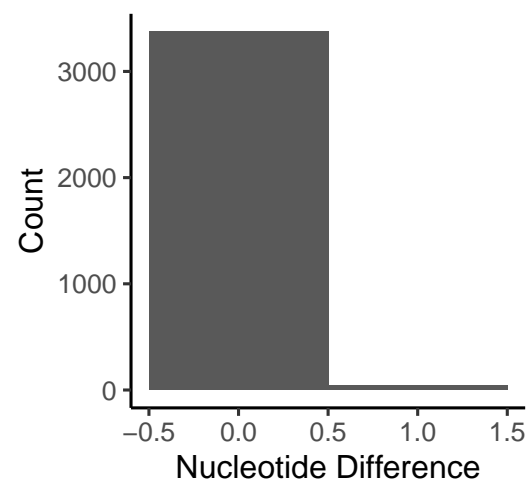
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



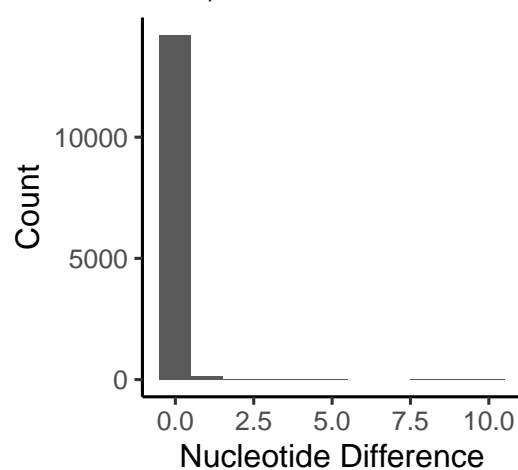
### TRBV30\*ap01

3416 sequences assigned  
3374 (98.8%) exact matches, in which:  
3324 unique CDR3  
13 unique J



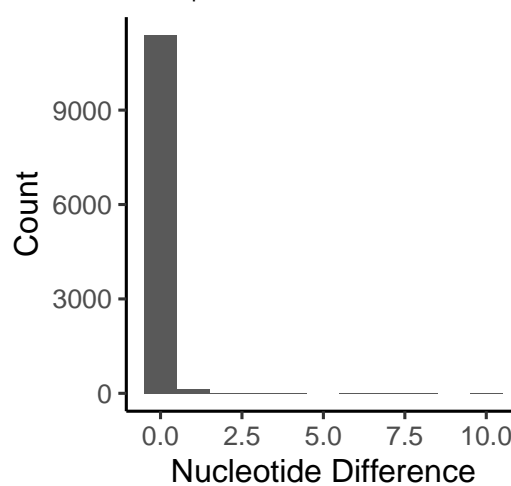
### TRBV19\*ap01

14391 sequences assigned  
14223 (98.8%) exact matches, in which:  
14069 unique CDR3  
13 unique J



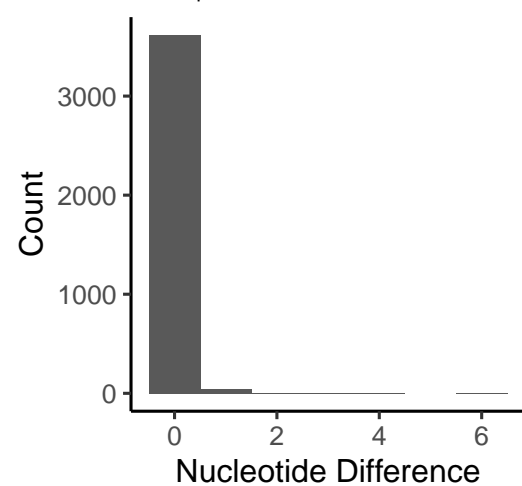
### TRBV27\*ap01

11535 sequences assigned  
11386 (98.7%) exact matches, in which:  
11123 unique CDR3  
13 unique J



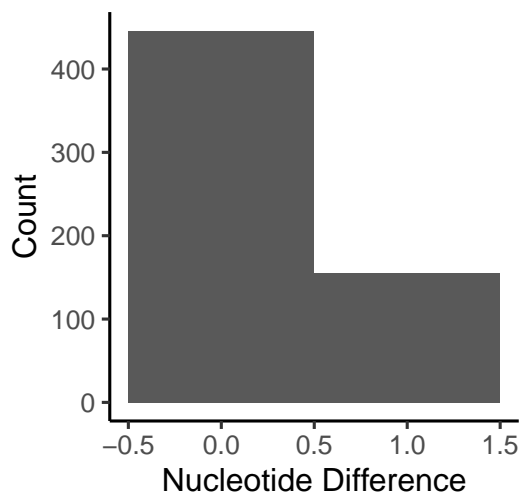
### TRBV30\*ap02

3671 sequences assigned  
3616 (98.5%) exact matches, in which:  
3580 unique CDR3  
13 unique J



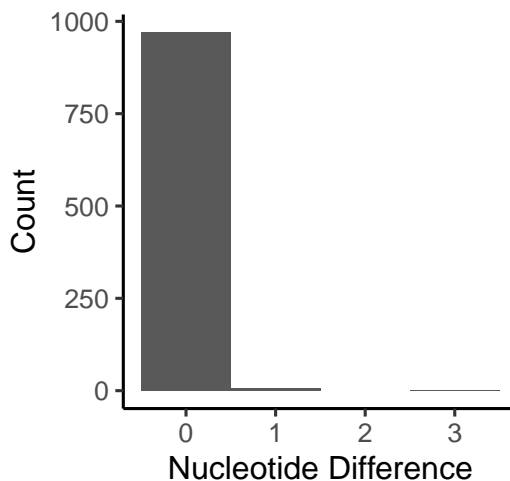
### TRBV30\*ap03

601 sequences assigned  
446 (74.2%) exact matches, in which:  
437 unique CDR3  
13 unique J



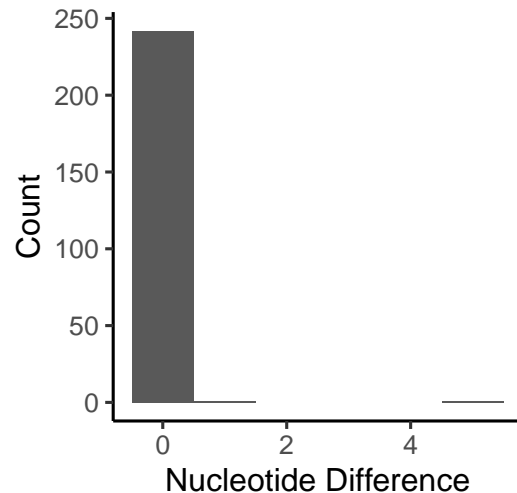
### TRBV11-1\*ap01

979 sequences assigned  
970 (99.1%) exact matches, in which:  
938 unique CDR3  
13 unique J



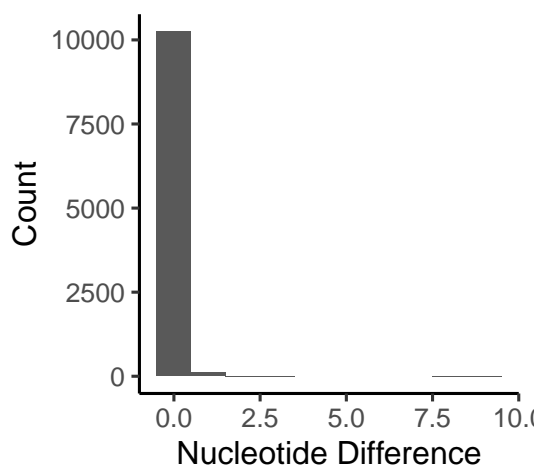
### TRBV12-1\*ap01

244 sequences assigned  
242 (99.2%) exact matches, in which:  
239 unique CDR3  
13 unique J



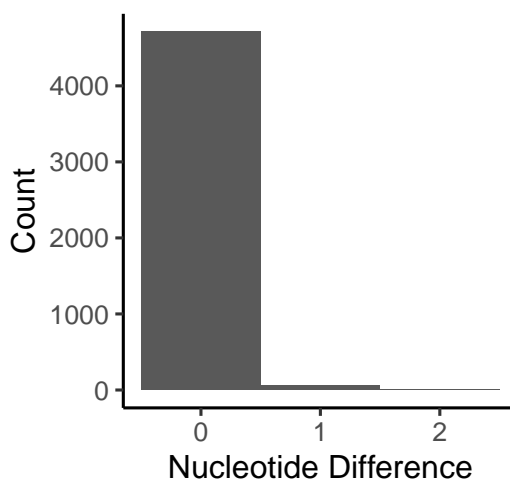
### TRBV9\*ap01

10375 sequences assigned  
10251 (98.8%) exact matches, in which:  
10053 unique CDR3  
13 unique J



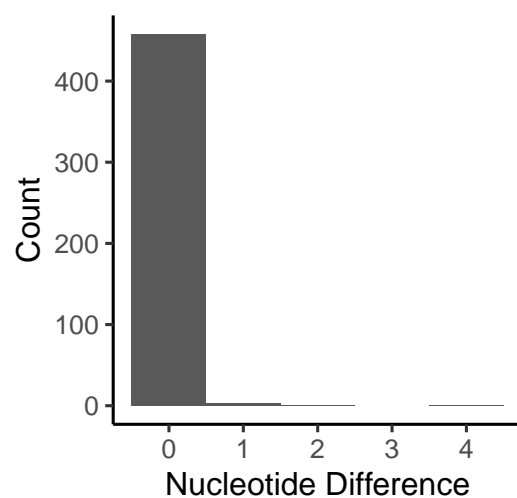
### TRBV11-2\*ap01

4766 sequences assigned  
4712 (98.9%) exact matches, in which:  
4628 unique CDR3  
13 unique J



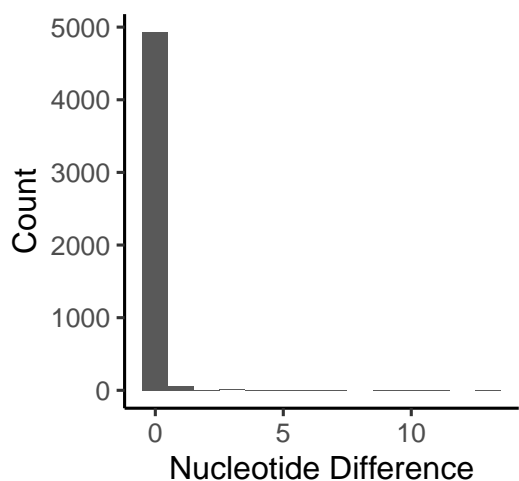
### TRBV12-2\*ap01

463 sequences assigned  
458 (98.9%) exact matches, in which:  
446 unique CDR3  
13 unique J



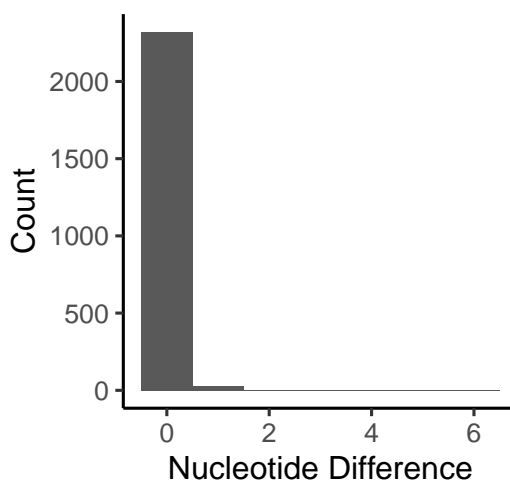
### TRBV21-1\*ap01

5024 sequences assigned  
4932 (98.2%) exact matches, in which:  
4863 unique CDR3  
13 unique J



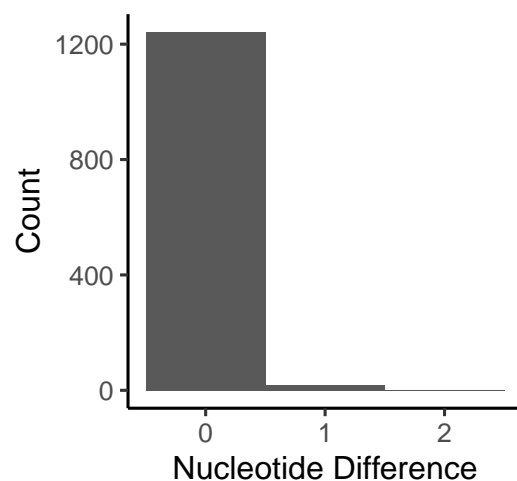
### TRBV11-3\*ap01

2354 sequences assigned  
2320 (98.6%) exact matches, in which:  
2283 unique CDR3  
13 unique J



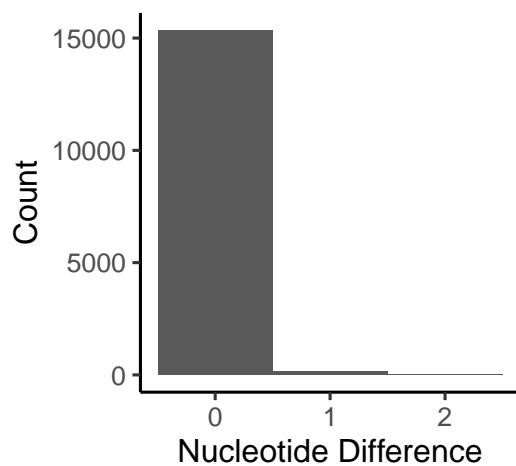
### TRBV12-5\*ap01

1262 sequences assigned  
1242 (98.4%) exact matches, in which:  
1212 unique CDR3  
13 unique J



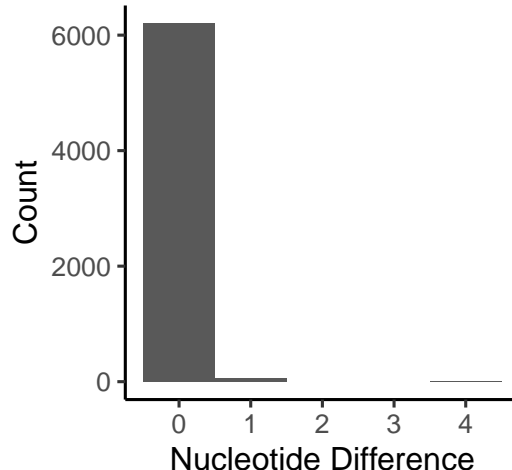
### TRBV12-34\*ap01

15522 sequences assigned  
15353 (98.9%) exact matches, in which:  
15066 unique CDR3  
13 unique J



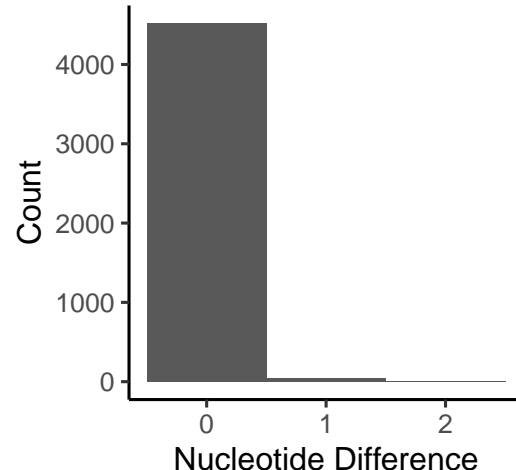
### TRBV4-1\*ap01

6261 sequences assigned  
6203 (99.1%) exact matches, in which:  
6079 unique CDR3  
13 unique J



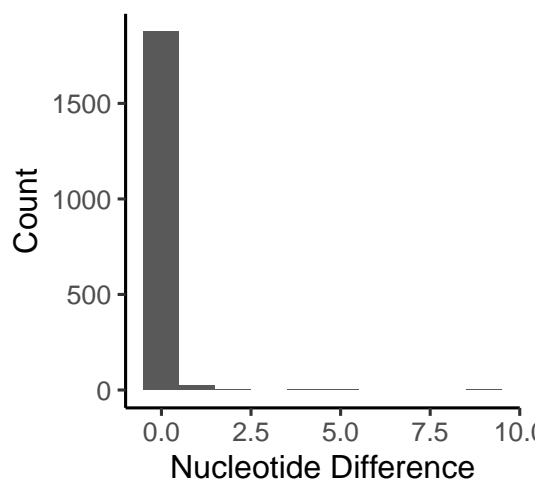
### TRBV4-3\*ap01

4568 sequences assigned  
4518 (98.9%) exact matches, in which:  
4418 unique CDR3  
13 unique J



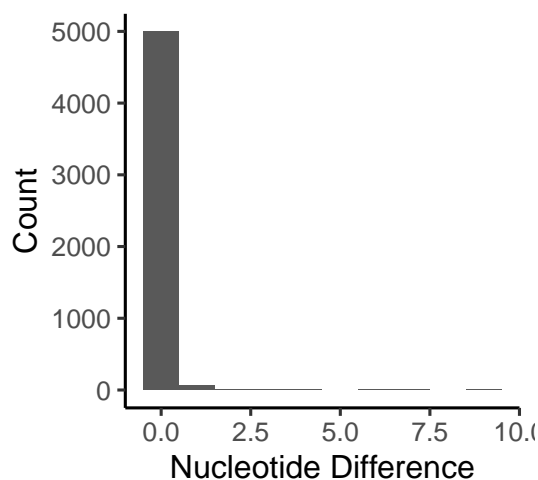
### TRBV23-1\*ap01

1902 sequences assigned  
1875 (98.6%) exact matches, in which:  
1838 unique CDR3  
13 unique J



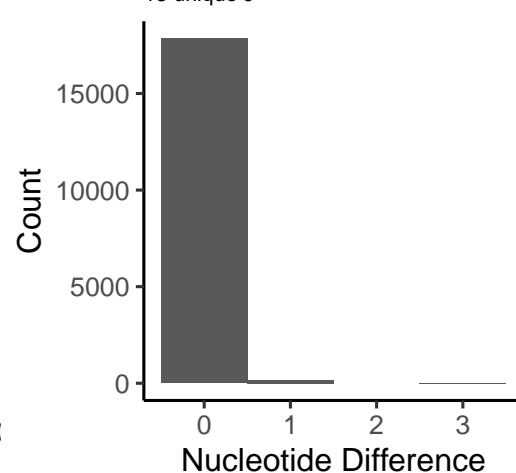
### TRBV24-1\*ap01

5063 sequences assigned  
4995 (98.7%) exact matches, in which:  
4928 unique CDR3  
13 unique J



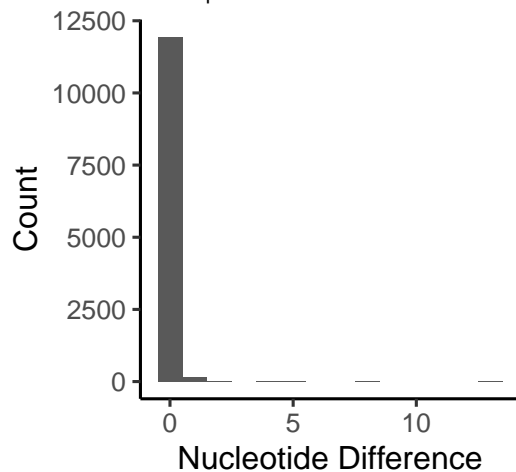
### TRBV5-1\*ap01

18022 sequences assigned  
17848 (99%) exact matches, in which:  
17431 unique CDR3  
13 unique J



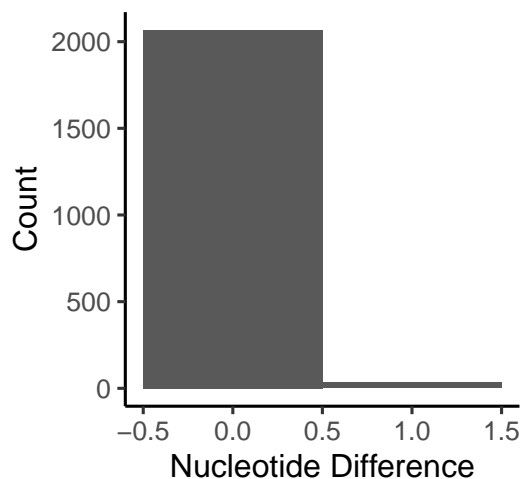
### TRBV3-12\*ap01

12103 sequences assigned  
11945 (98.7%) exact matches, in which:  
11741 unique CDR3  
13 unique J



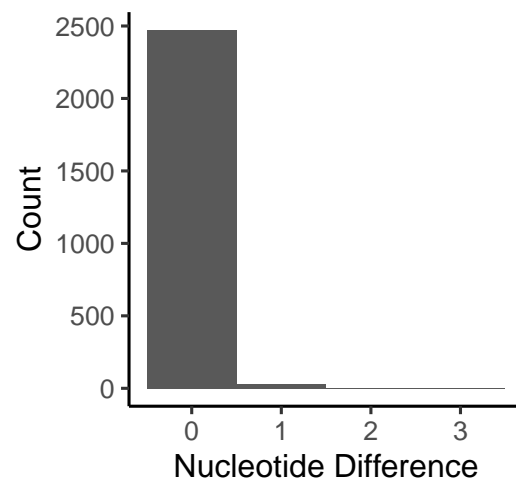
### TRBV4-2\*ap01

2101 sequences assigned  
2067 (98.4%) exact matches, in which:  
2030 unique CDR3  
13 unique J



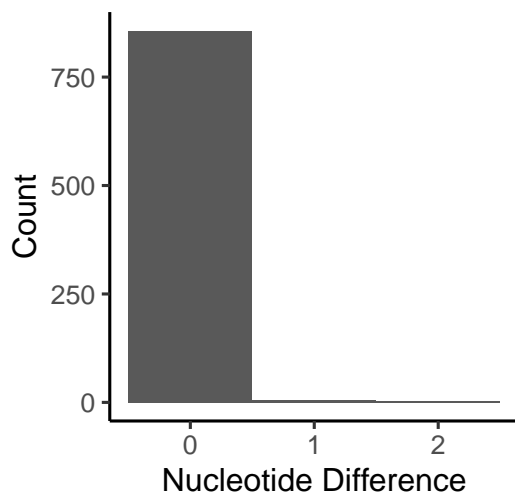
### TRBV25-1\*ap01

2506 sequences assigned  
2472 (98.6%) exact matches, in which:  
2438 unique CDR3  
13 unique J



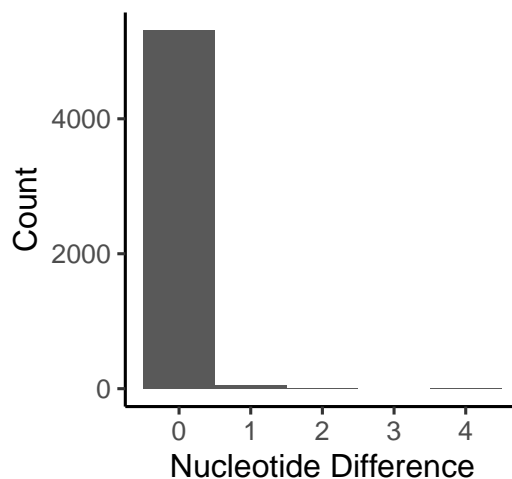
### TRBV5-3\*ap01

865 sequences assigned  
857 (99.1%) exact matches, in which:  
838 unique CDR3  
13 unique J



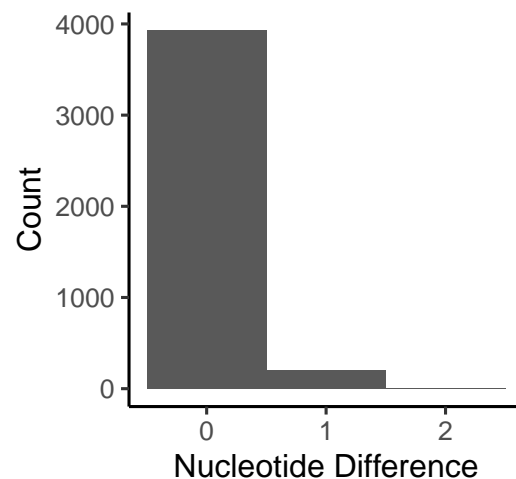
### TRBV5-6\*ap01

5365 sequences assigned  
5310 (99%) exact matches, in which:  
5215 unique CDR3  
13 unique J



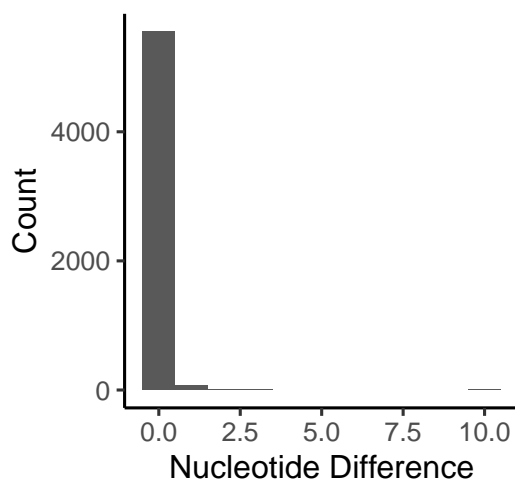
### TRBV6-1\*ap01

4136 sequences assigned  
3929 (95%) exact matches, in which:  
3843 unique CDR3  
13 unique J



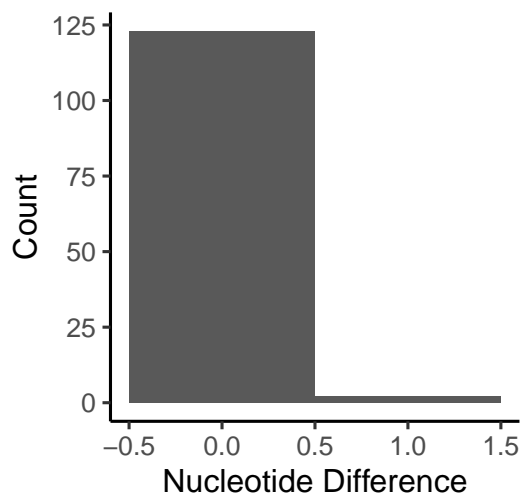
### TRBV5-4\*ap01

5620 sequences assigned  
5550 (98.8%) exact matches, in which:  
5443 unique CDR3  
13 unique J



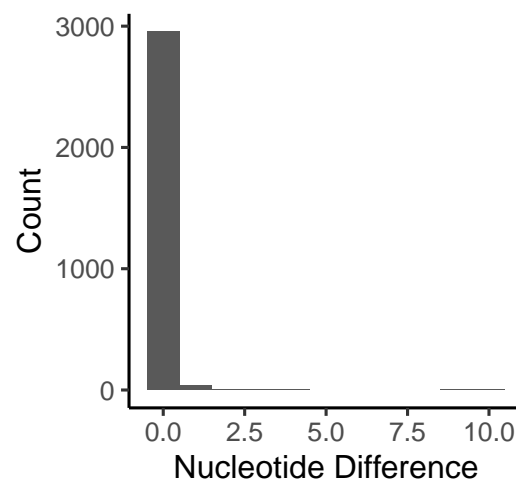
### TRBV5-7\*ap01

125 sequences assigned  
123 (98.4%) exact matches, in which:  
121 unique CDR3  
13 unique J



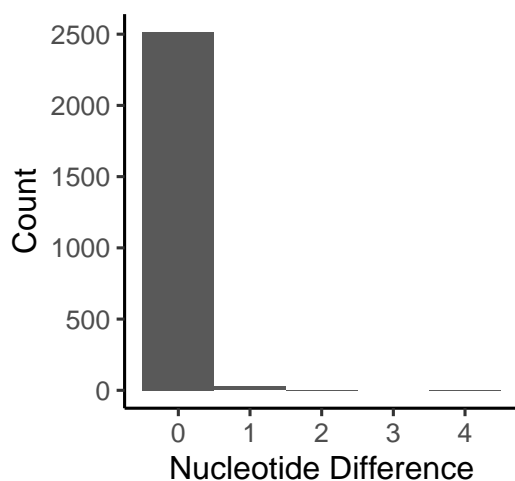
### TRBV6-4\*ap01

3002 sequences assigned  
2954 (98.4%) exact matches, in which:  
2912 unique CDR3  
13 unique J



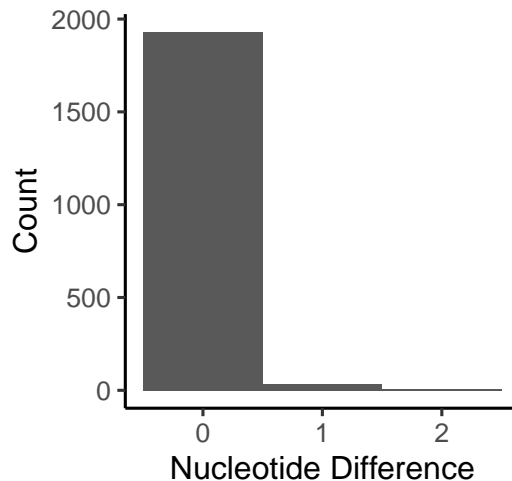
### TRBV5-5\*ap01

2544 sequences assigned  
2515 (98.9%) exact matches, in which:  
2477 unique CDR3  
13 unique J



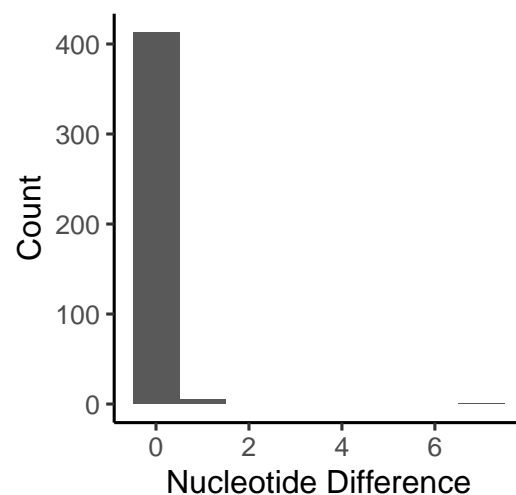
### TRBV5-8\*ap01

1970 sequences assigned  
1930 (98%) exact matches, in which:  
1886 unique CDR3  
13 unique J



### TRBV6-7\*ap01

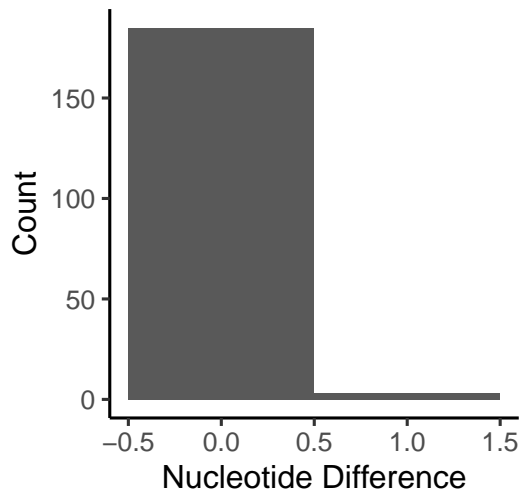
419 sequences assigned  
413 (98.6%) exact matches, in which:  
405 unique CDR3  
13 unique J





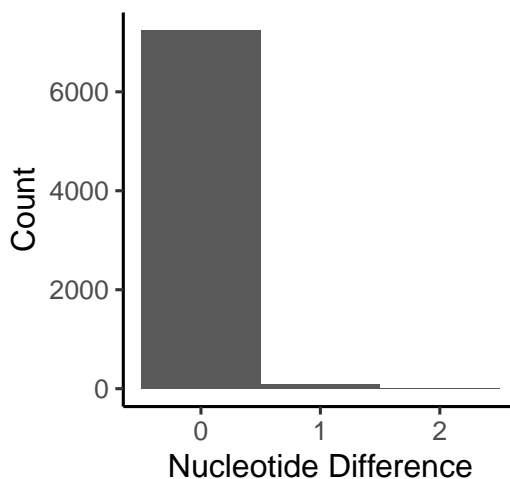
### TRBV6-8\*ap01

188 sequences assigned  
185 (98.4%) exact matches, in which:  
179 unique CDR3  
13 unique J



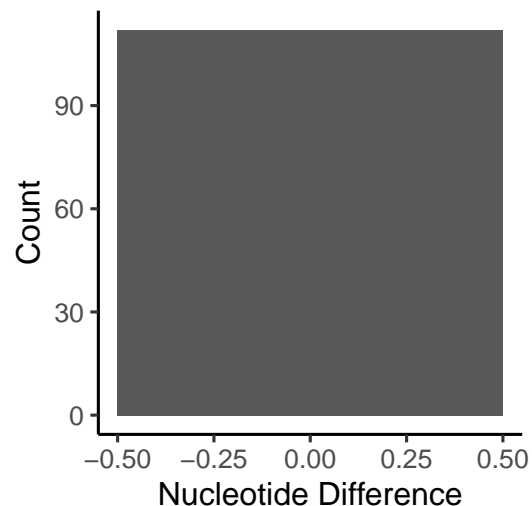
### TRBV6-56\*ap01

7343 sequences assigned  
7241 (98.6%) exact matches, in which:  
7098 unique CDR3  
13 unique J



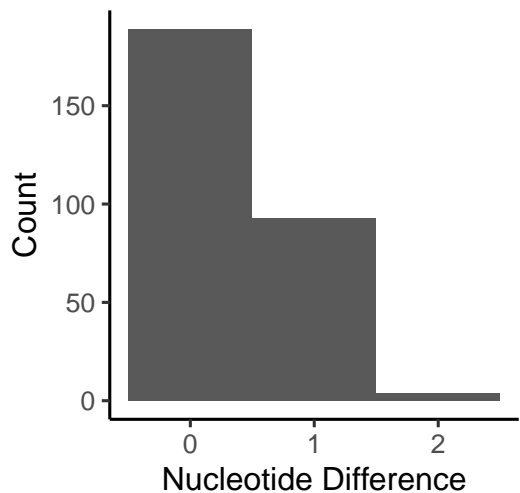
### TRBV7-1\*ap01\_G291C\_T

112 sequences assigned  
112 (100%) exact matches, in which:  
110 unique CDR3  
12 unique J



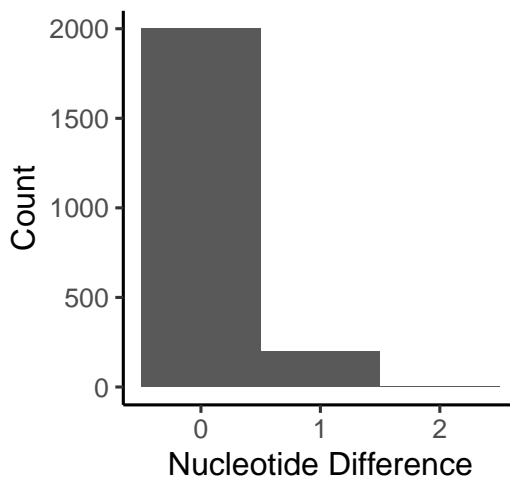
### TRBV6-9\*ap01

286 sequences assigned  
189 (66.1%) exact matches, in which:  
187 unique CDR3  
13 unique J



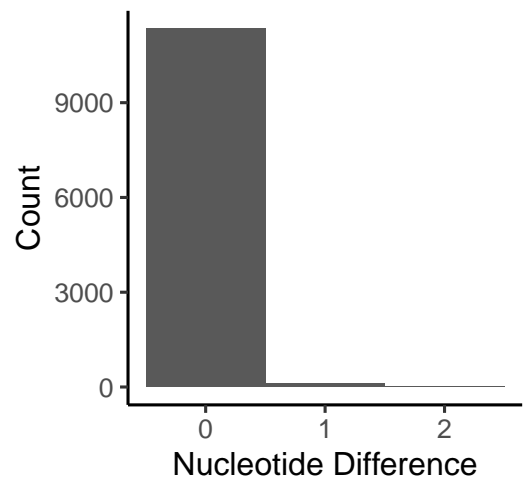
### TRBV6-56\*ap02

2204 sequences assigned  
2000 (90.7%) exact matches, in which:  
1957 unique CDR3  
13 unique J



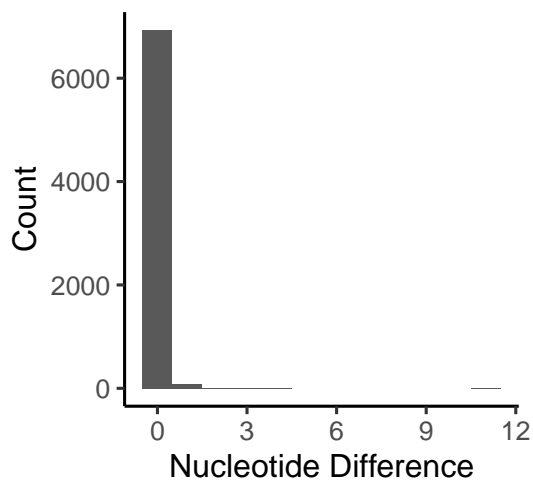
### TRBV7-2\*ap01

11441 sequences assigned  
11341 (99.1%) exact matches, in which:  
11125 unique CDR3  
13 unique J



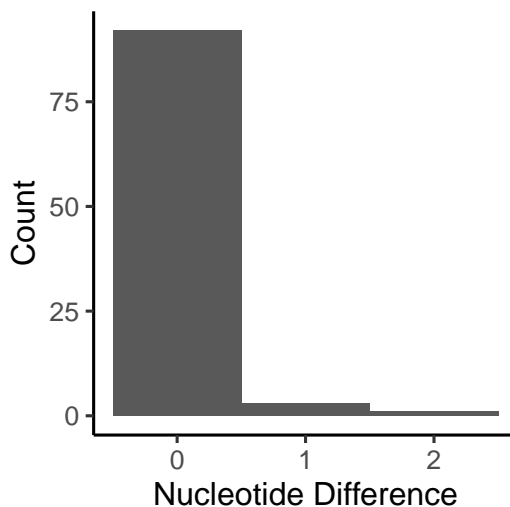
### TRBV6-23\*ap01

7019 sequences assigned  
6932 (98.8%) exact matches, in which:  
6789 unique CDR3  
13 unique J



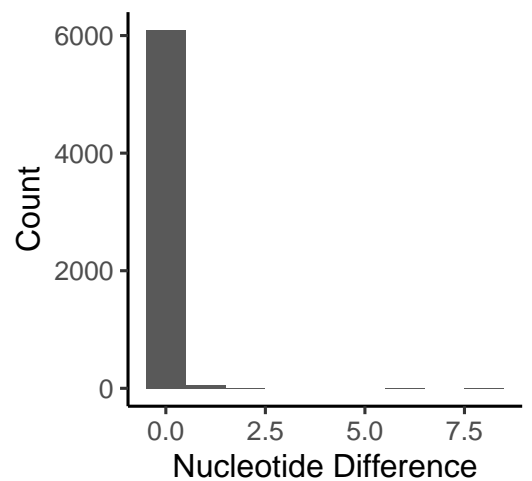
### TRBV7-1\*ap01\_G291C\_T

96 sequences assigned  
92 (95.8%) exact matches, in which:  
91 unique CDR3  
11 unique J



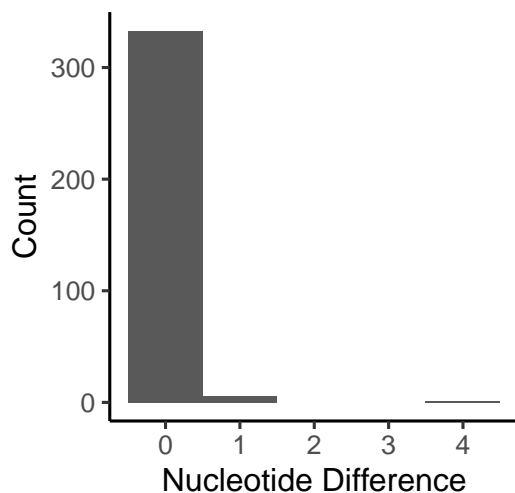
### TRBV7-3\*ap01

6160 sequences assigned  
6094 (98.9%) exact matches, in which:  
6017 unique CDR3  
13 unique J



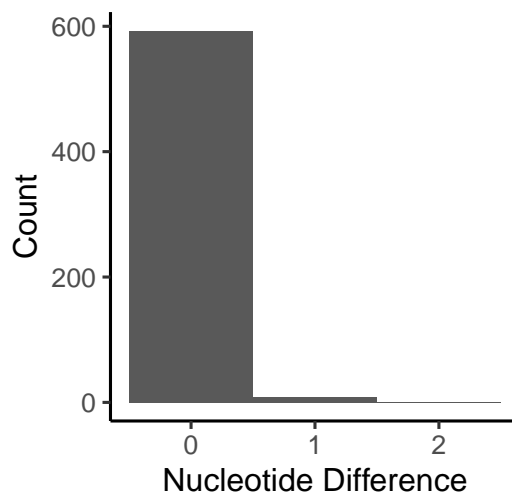
### TRBV7-4\*ap01

340 sequences assigned  
333 (97.9%) exact matches, in which:  
323 unique CDR3  
13 unique J



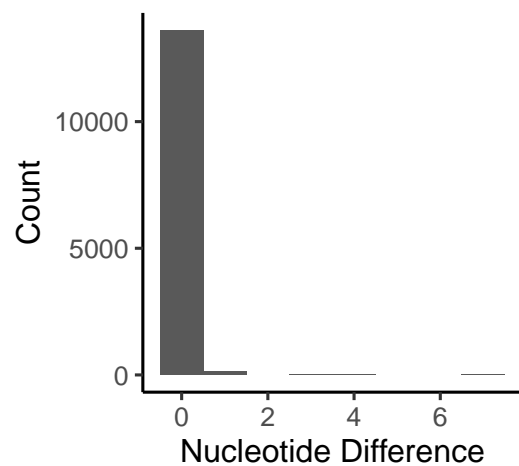
### TRBV7-7\*ap01\_C315T

603 sequences assigned  
593 (98.3%) exact matches, in which:  
585 unique CDR3  
13 unique J



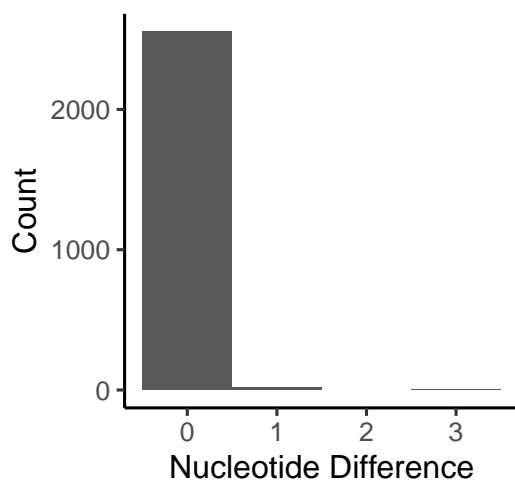
### TRBV7-9\*ap01

13745 sequences assigned  
13611 (99%) exact matches, in which:  
13413 unique CDR3  
13 unique J



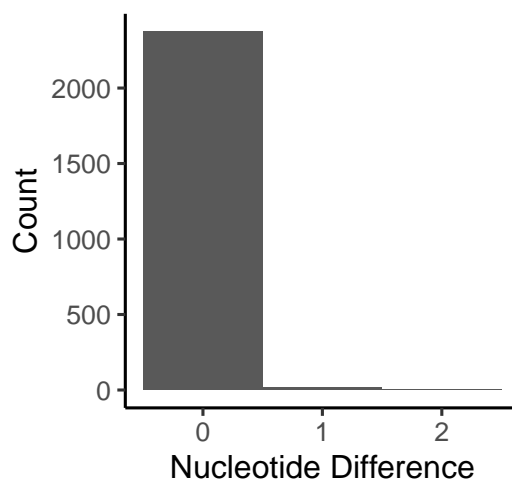
### TRBV7-6\*ap01

2574 sequences assigned  
2554 (99.2%) exact matches, in which:  
2513 unique CDR3  
13 unique J



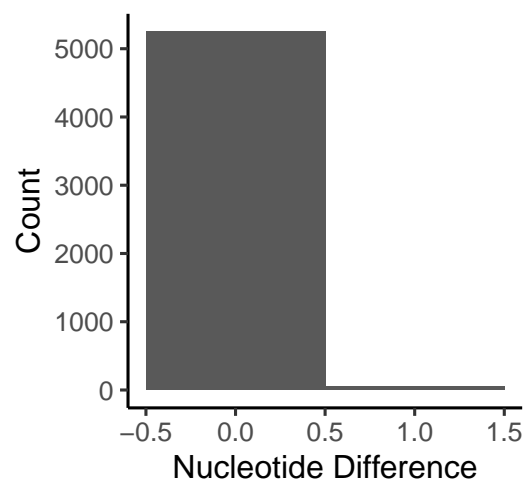
### TRBV7-8\*ap01

2393 sequences assigned  
2373 (99.2%) exact matches, in which:  
2328 unique CDR3  
13 unique J



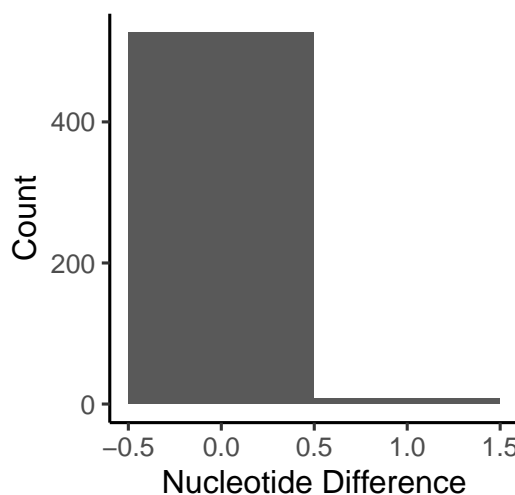
### TRBV29-1\*ap01

5300 sequences assigned  
5249 (99%) exact matches, in which:  
5160 unique CDR3  
13 unique J



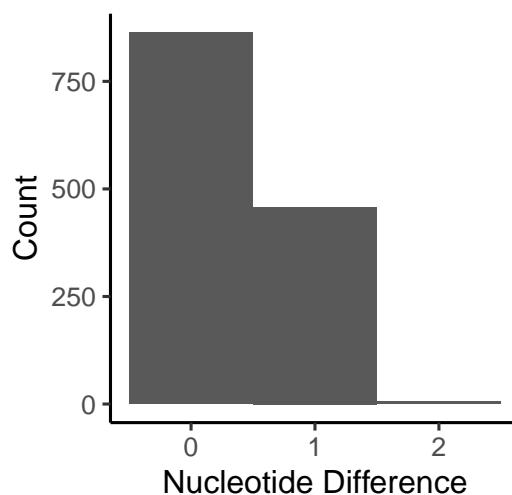
### TRBV7-7\*ap01

535 sequences assigned  
527 (98.5%) exact matches, in which:  
522 unique CDR3  
13 unique J



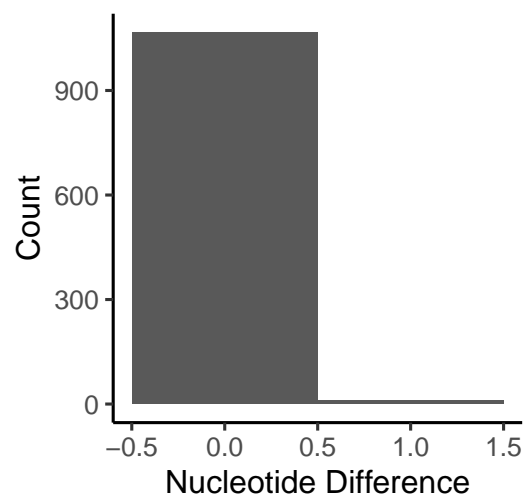
### TRBV7-8\*ap03

1327 sequences assigned  
864 (65.1%) exact matches, in which:  
844 unique CDR3  
13 unique J

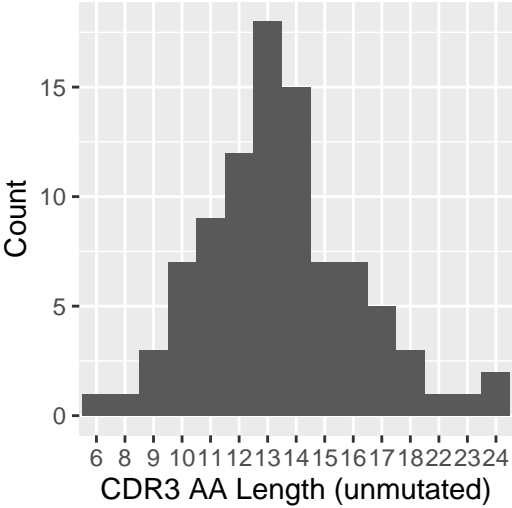


### TRBV29-1\*ap02

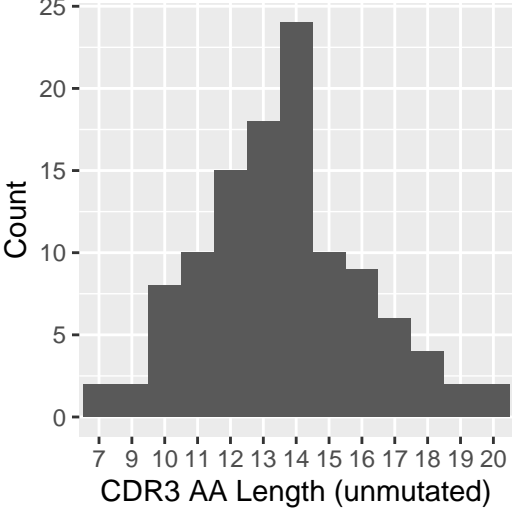
1077 sequences assigned  
1067 (99.1%) exact matches, in which:  
1056 unique CDR3  
13 unique J



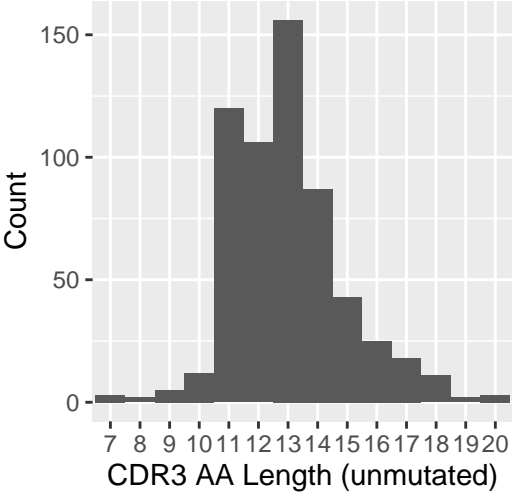
TRBV7-1\*ap01\_G291C\_T296C



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



TRBV7-7\*ap01\_C315T





[illegible]