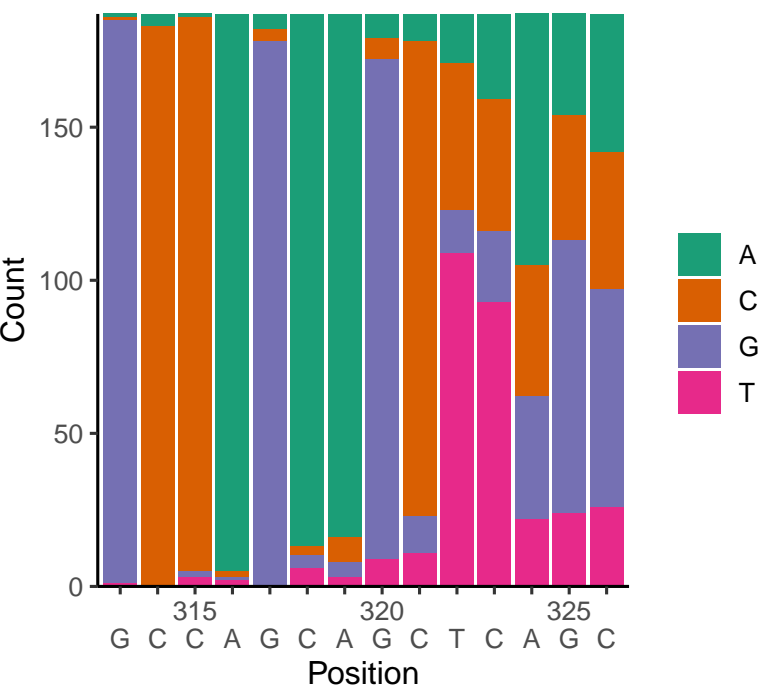
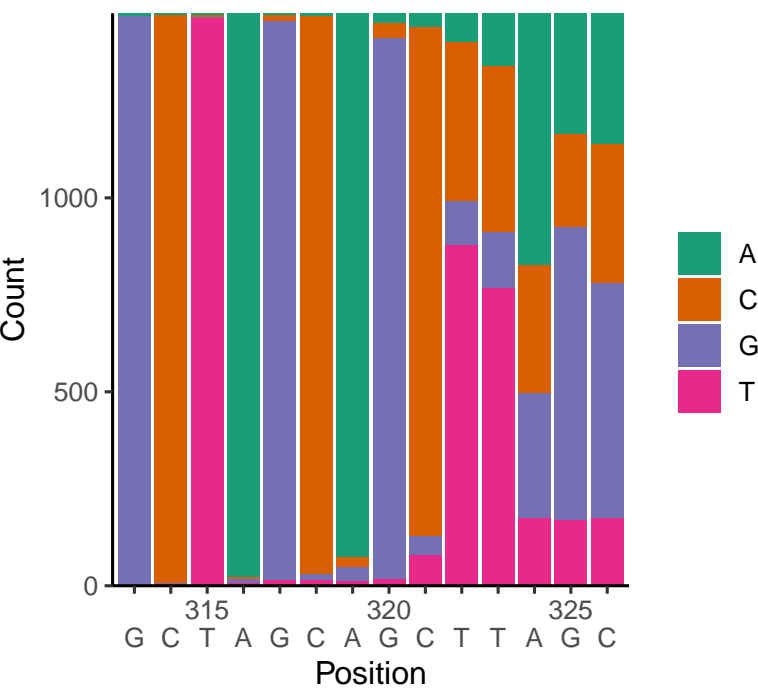


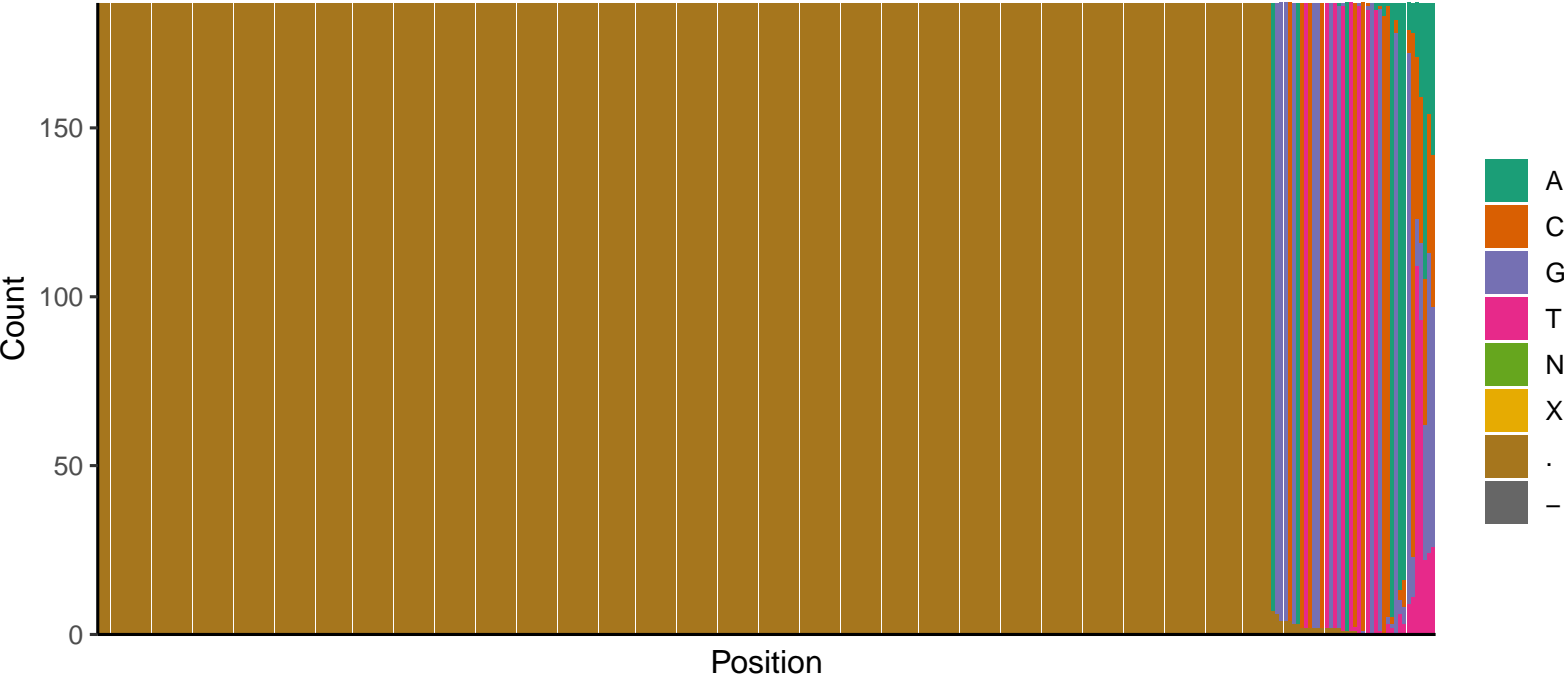
Gene TRBV7-1\*ap01\_G291C\_T296C



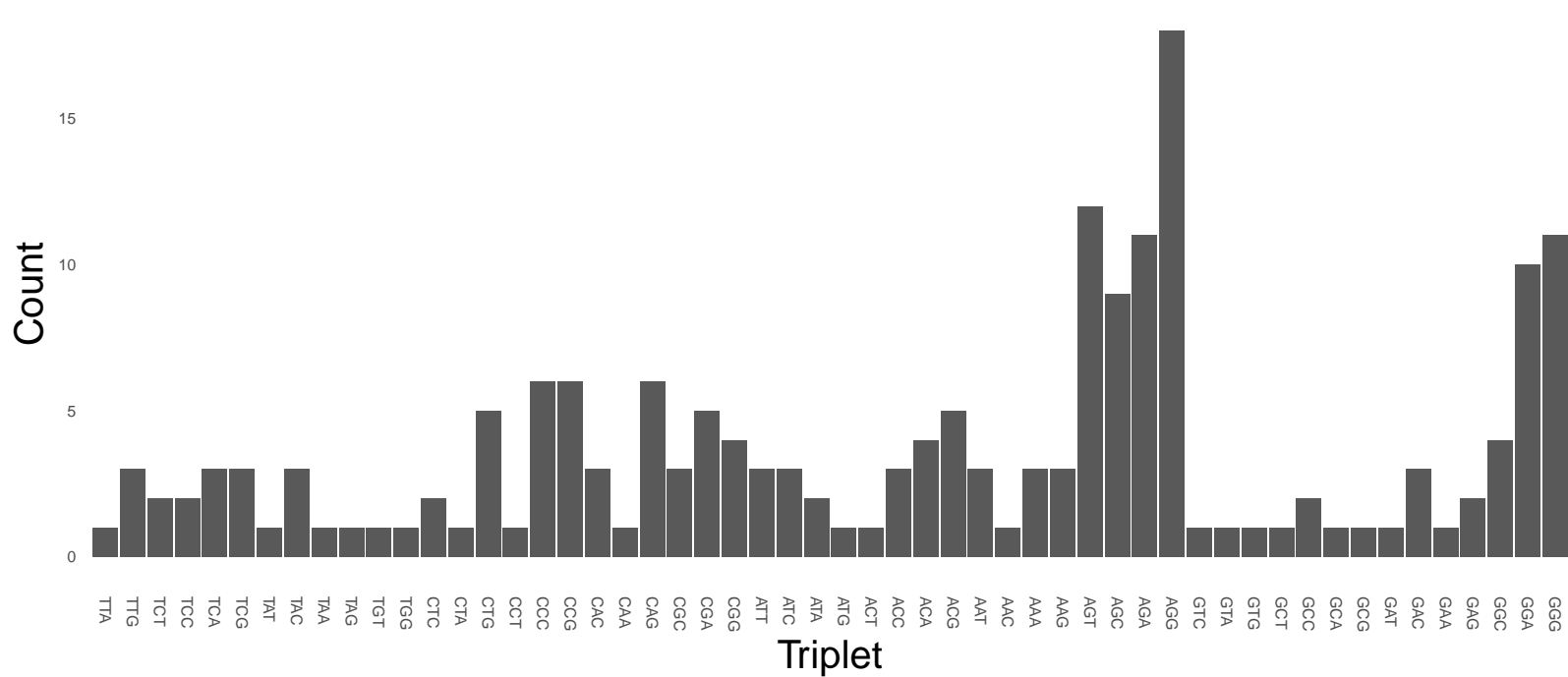
Gene TRBV7-7\*ap01\_C315T



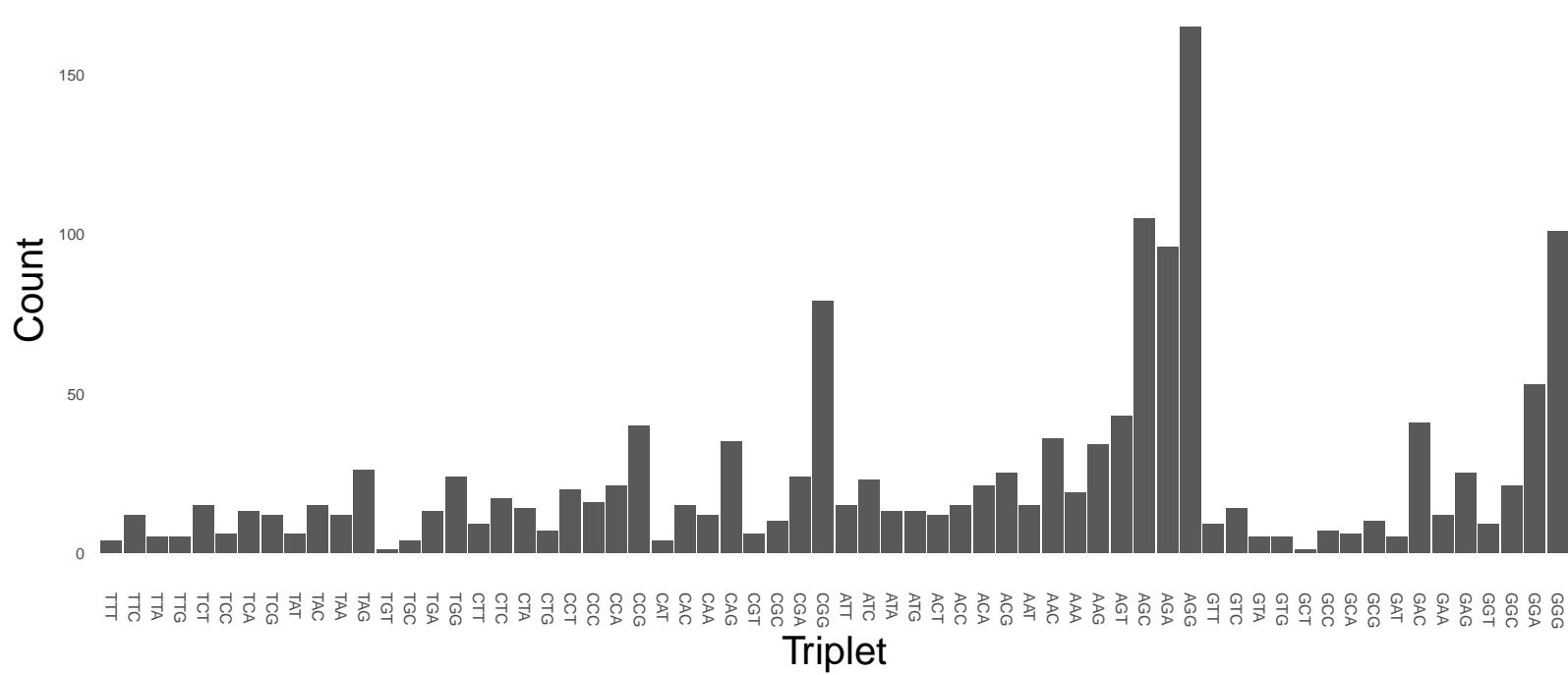
Gene TRBV7-1\*ap01\_G291C\_T296C



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

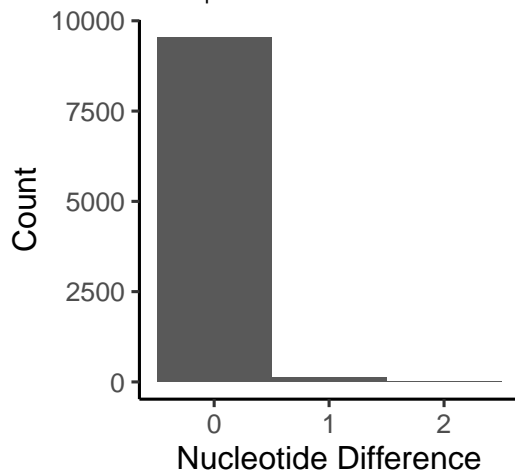


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



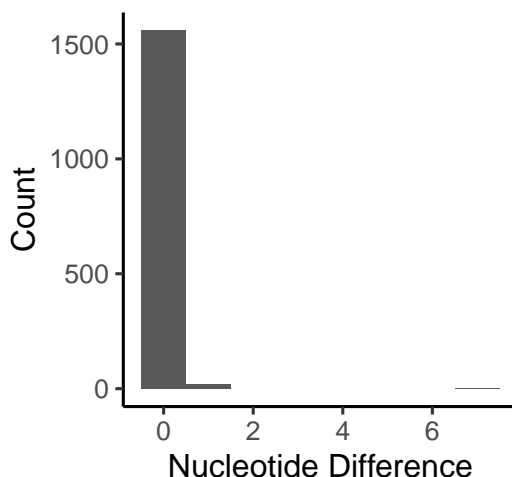
### TRBV20-1\*ap01

9683 sequences assigned  
9547 (98.6%) exact matches, in which:  
9432 unique CDR3  
13 unique J



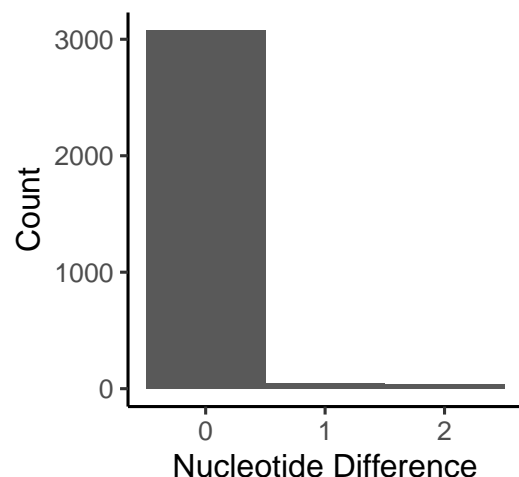
### TRBV10-2\*ap01

1580 sequences assigned  
1559 (98.7%) exact matches, in which:  
1539 unique CDR3  
13 unique J



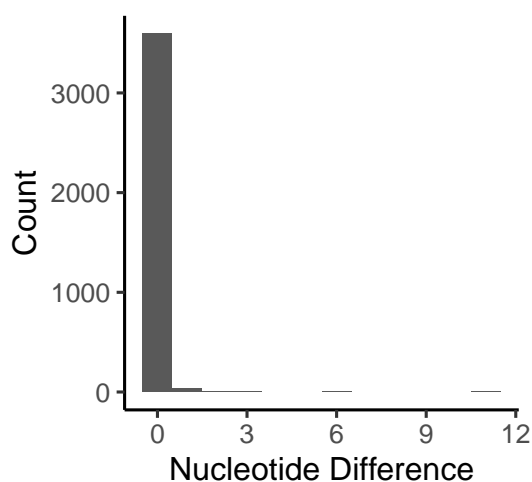
### TRBV13\*ap01

3162 sequences assigned  
3076 (97.3%) exact matches, in which:  
3008 unique CDR3  
13 unique J



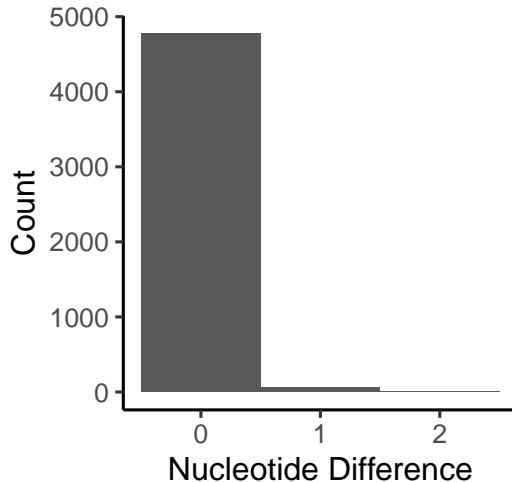
### TRBV10-1\*ap01

3630 sequences assigned  
3594 (99%) exact matches, in which:  
3524 unique CDR3  
13 unique J



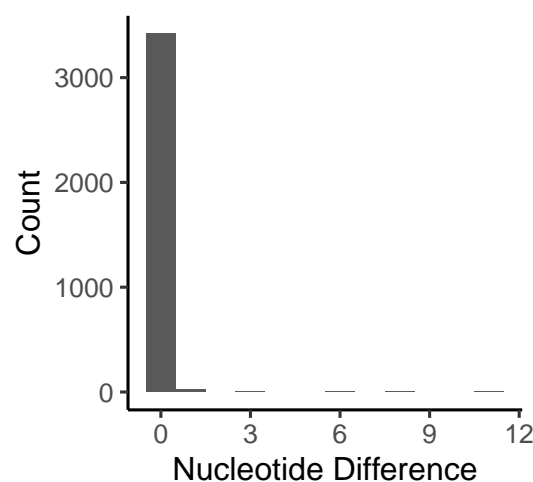
### TRBV10-3\*ap01

4832 sequences assigned  
4773 (98.8%) exact matches, in which:  
4683 unique CDR3  
13 unique J



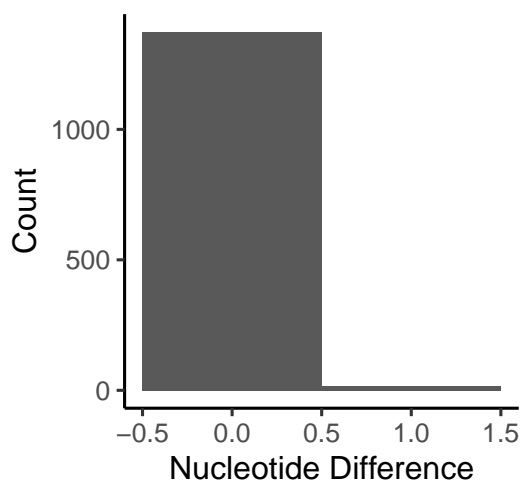
### TRBV14\*ap01

3449 sequences assigned  
3419 (99.1%) exact matches, in which:  
3392 unique CDR3  
13 unique J



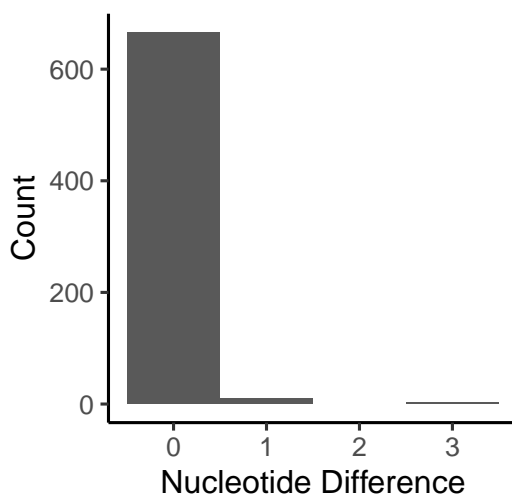
### TRBV20-1\*ap02

1390 sequences assigned  
1373 (98.8%) exact matches, in which:  
1352 unique CDR3  
13 unique J



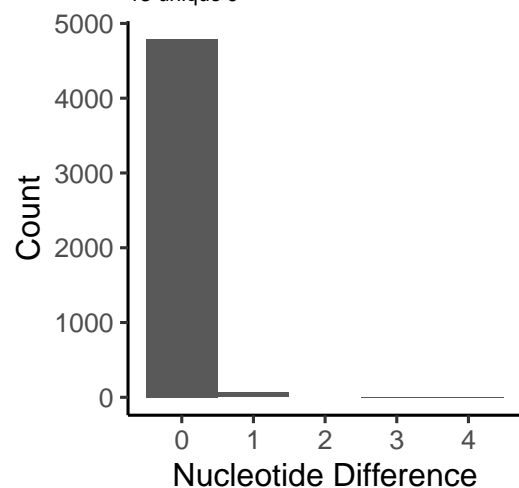
### TRBV1\*ap01

678 sequences assigned  
666 (98.2%) exact matches, in which:  
656 unique CDR3  
13 unique J



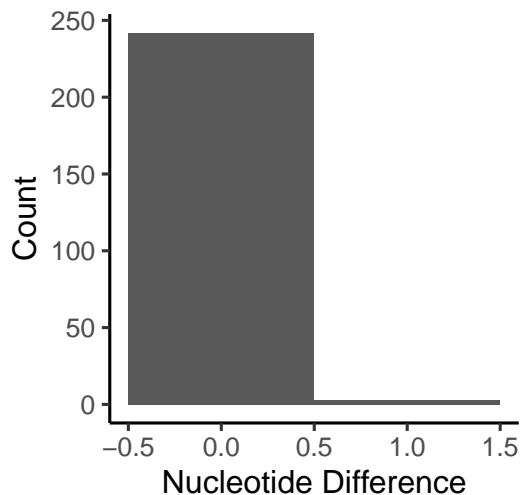
### TRBV15\*ap02

4858 sequences assigned  
4791 (98.6%) exact matches, in which:  
4702 unique CDR3  
13 unique J



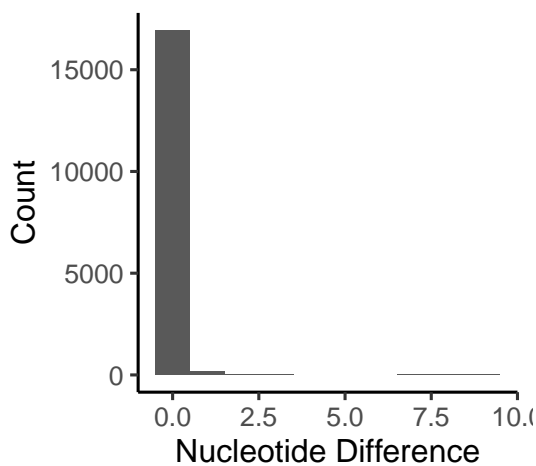
### TRBV16\*ap01

245 sequences assigned  
242 (98.8%) exact matches, in which:  
242 unique CDR3  
13 unique J



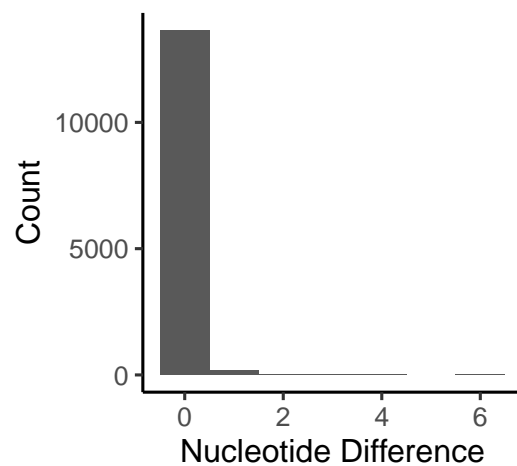
### TRBV19\*ap01

17120 sequences assigned  
16945 (99%) exact matches, in which:  
16803 unique CDR3  
13 unique J



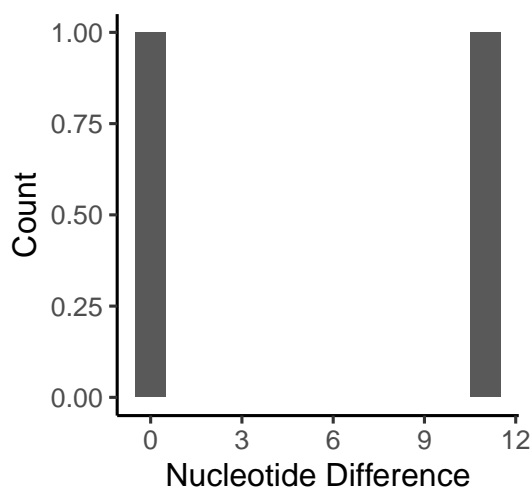
### TRBV27\*ap01

13841 sequences assigned  
13653 (98.6%) exact matches, in which:  
13385 unique CDR3  
13 unique J



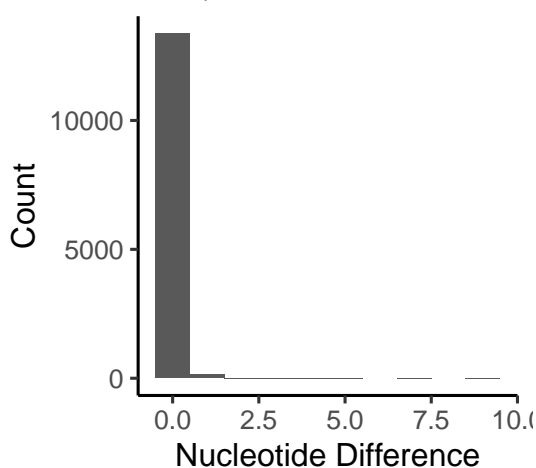
### TRBV17\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



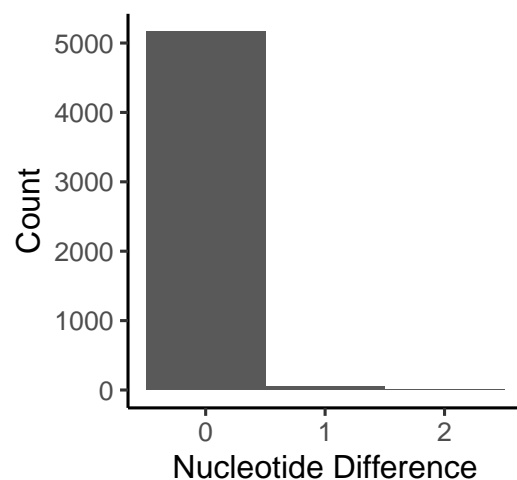
### TRBV2\*ap01

13532 sequences assigned  
13374 (98.8%) exact matches, in which:  
13167 unique CDR3  
13 unique J



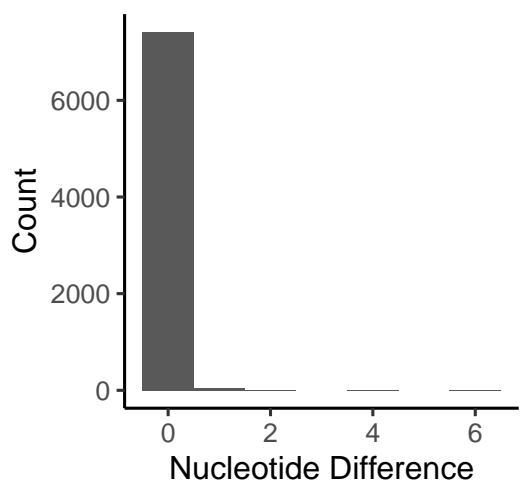
### TRBV28\*ap01

5210 sequences assigned  
5163 (99.1%) exact matches, in which:  
5079 unique CDR3  
13 unique J



### TRBV18\*ap01

7470 sequences assigned  
7413 (99.2%) exact matches, in which:  
7351 unique CDR3  
13 unique J



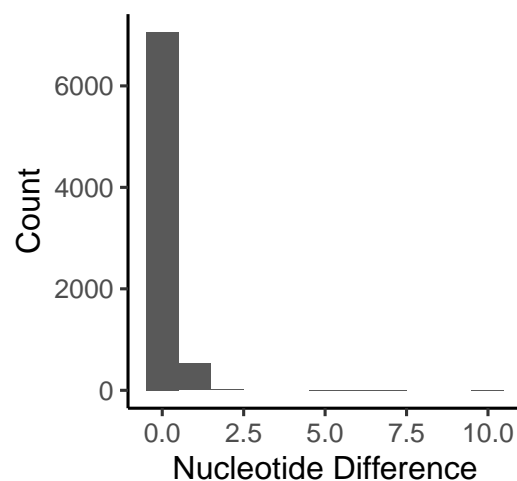
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



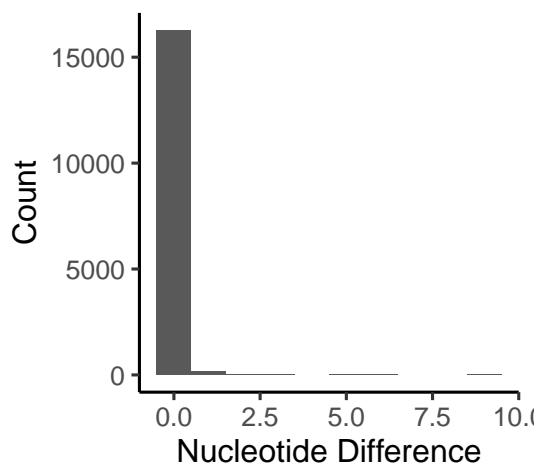
### TRBV30\*ap01

7611 sequences assigned  
7061 (92.8%) exact matches, in which:  
6982 unique CDR3  
13 unique J



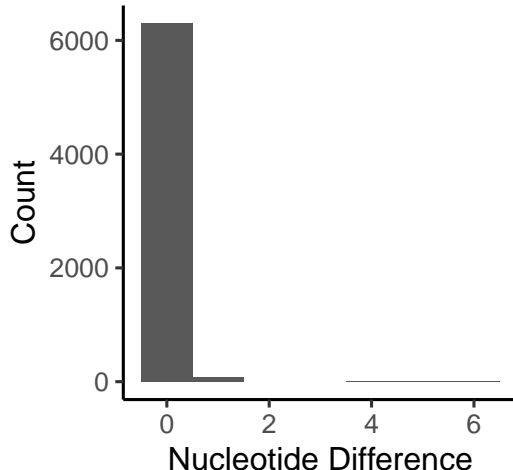
### TRBV9\*ap01

16462 sequences assigned  
16277 (98.9%) exact matches, in which:  
16047 unique CDR3  
13 unique J



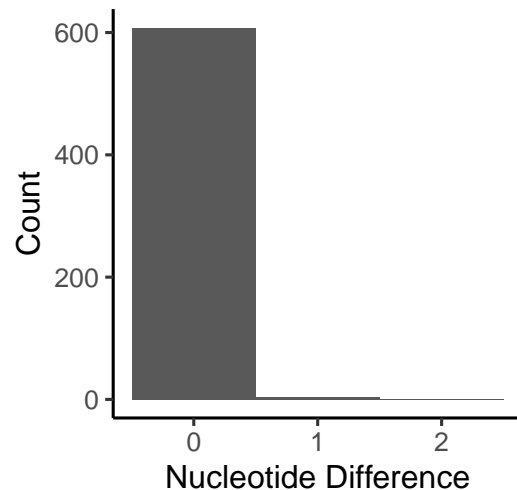
### TRBV11-2\*ap01

6375 sequences assigned  
6298 (98.8%) exact matches, in which:  
6190 unique CDR3  
13 unique J



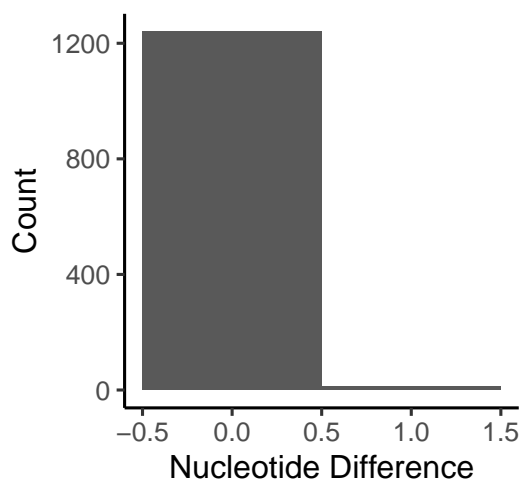
### TRBV12-2\*ap01

613 sequences assigned  
608 (99.2%) exact matches, in which:  
602 unique CDR3  
13 unique J



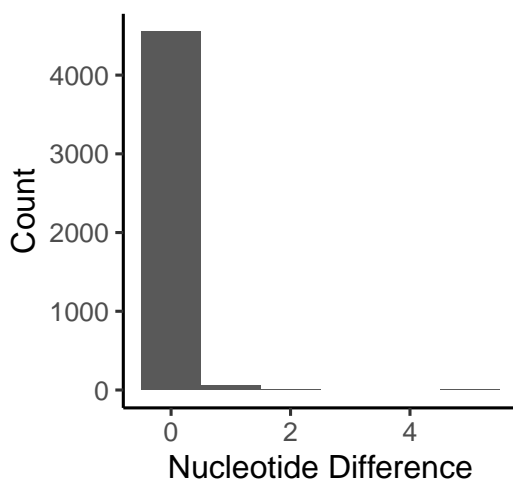
### TRBV11-1\*ap01

1253 sequences assigned  
1240 (99%) exact matches, in which:  
1221 unique CDR3  
13 unique J



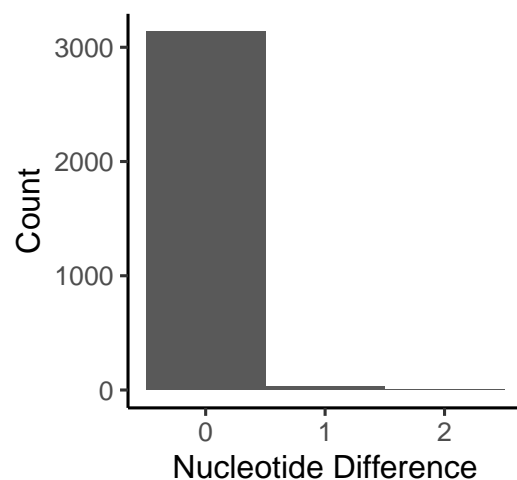
### TRBV11-3\*ap01

4613 sequences assigned  
4551 (98.7%) exact matches, in which:  
4478 unique CDR3  
13 unique J



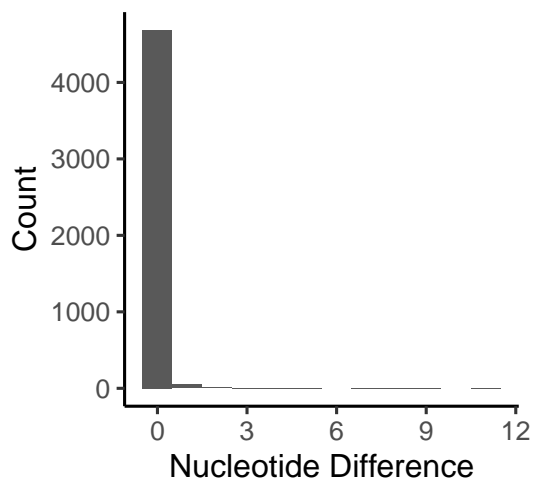
### TRBV12-5\*ap01

3169 sequences assigned  
3136 (99%) exact matches, in which:  
3078 unique CDR3  
13 unique J



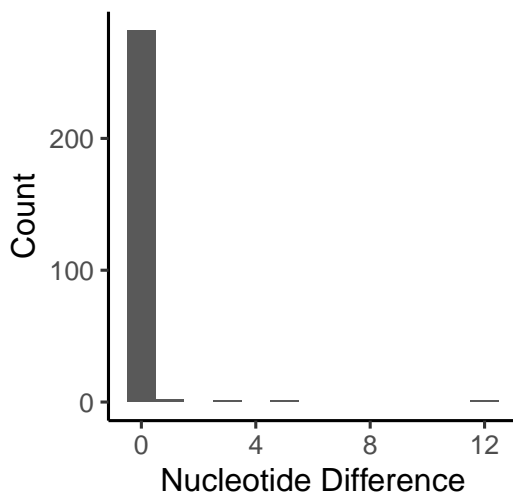
### TRBV21-1\*ap01

4754 sequences assigned  
4685 (98.5%) exact matches, in which:  
4619 unique CDR3  
13 unique J



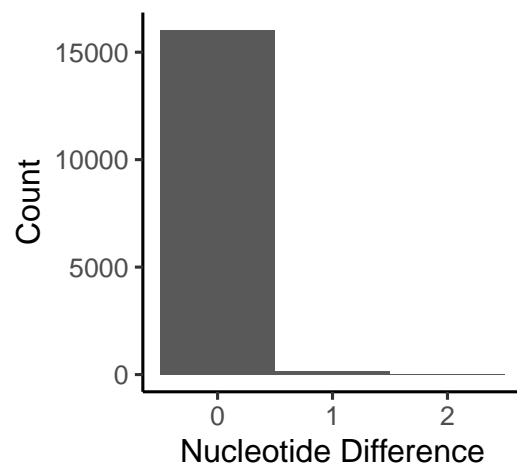
### TRBV12-1\*ap01

287 sequences assigned  
282 (98.3%) exact matches, in which:  
278 unique CDR3  
13 unique J



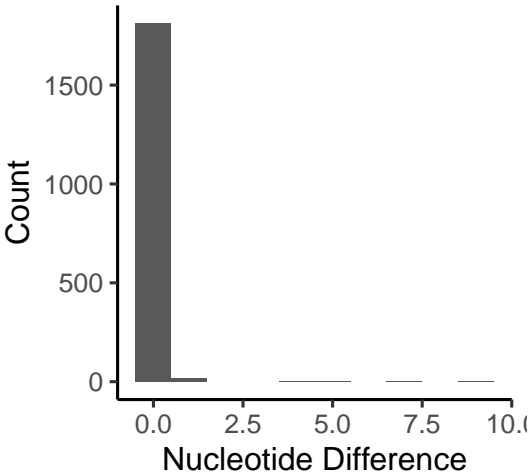
### TRBV12-34\*ap01

16227 sequences assigned  
16042 (98.9%) exact matches, in which:  
15779 unique CDR3  
13 unique J



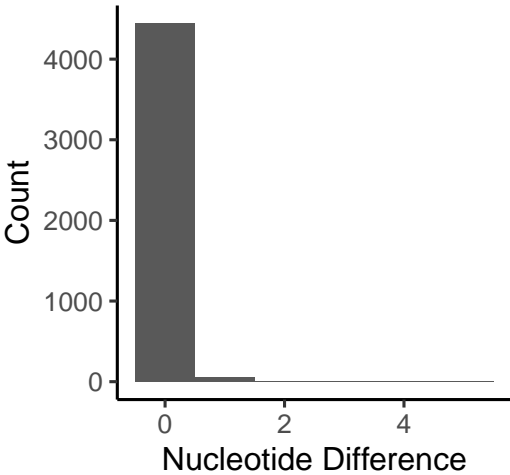
TRBV23-1\*ap01

1835 sequences assigned  
1812 (98.7%) exact matches, in which:  
1786 unique CDR3  
13 unique J



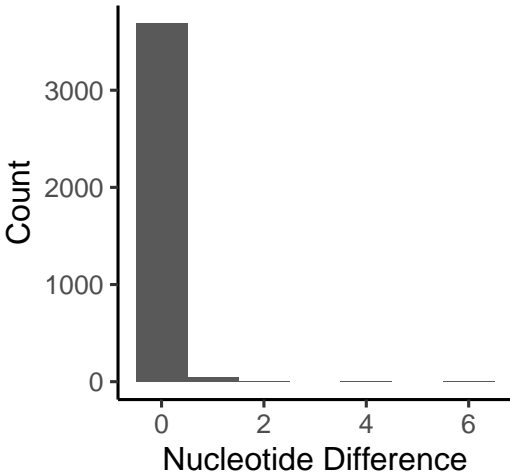
TRBV24-1\*ap01

4512 sequences assigned  
4443 (98.5%) exact matches, in which:  
4401 unique CDR3  
13 unique J



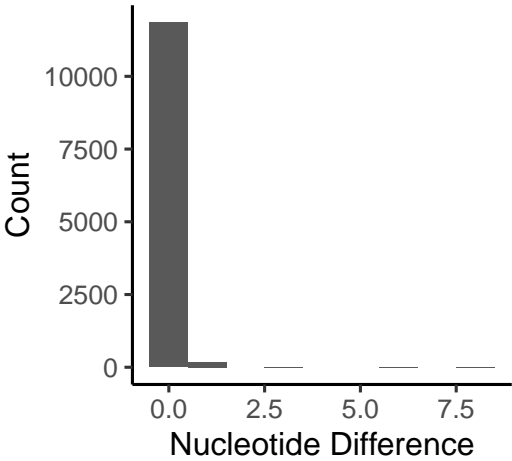
TRBV25-1\*ap01

3735 sequences assigned  
3688 (98.7%) exact matches, in which:  
3632 unique CDR3  
13 unique J



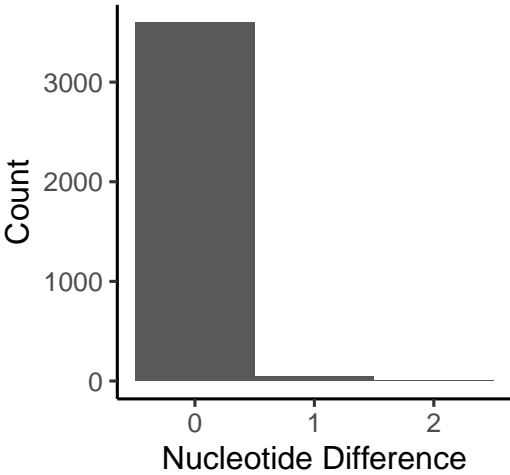
TRBV3-12\*ap01

12037 sequences assigned  
11852 (98.5%) exact matches, in which:  
11664 unique CDR3  
13 unique J



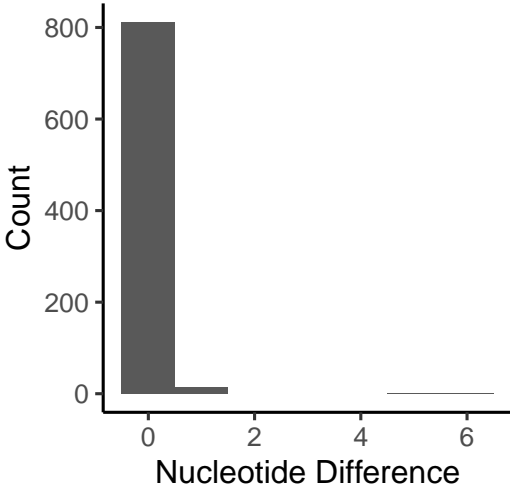
TRBV4-2\*ap01

3642 sequences assigned  
3596 (98.7%) exact matches, in which:  
3541 unique CDR3  
13 unique J



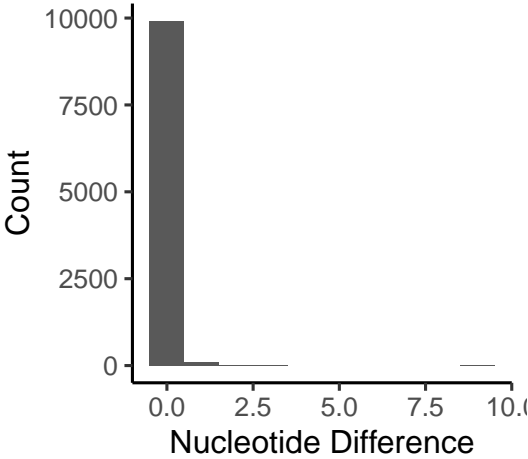
TRBV5-3\*ap01

829 sequences assigned  
812 (97.9%) exact matches, in which:  
799 unique CDR3  
13 unique J



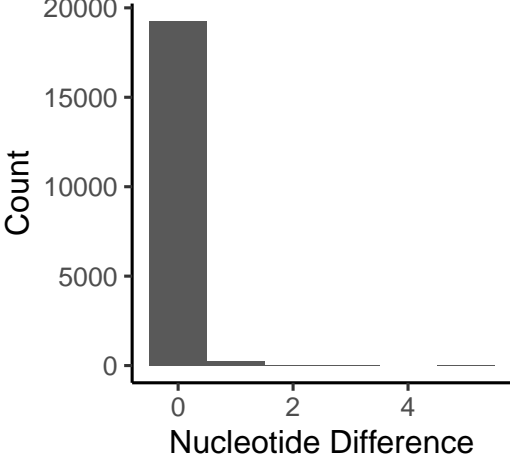
TRBV4-1\*ap01

10033 sequences assigned  
9921 (98.9%) exact matches, in which:  
9755 unique CDR3  
13 unique J



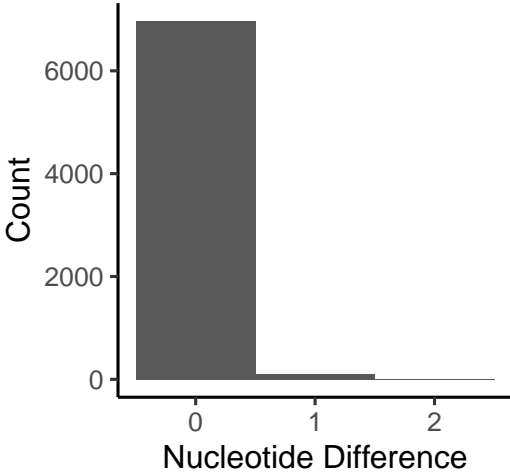
TRBV5-1\*ap01

19513 sequences assigned  
19276 (98.8%) exact matches, in which:  
18902 unique CDR3  
13 unique J



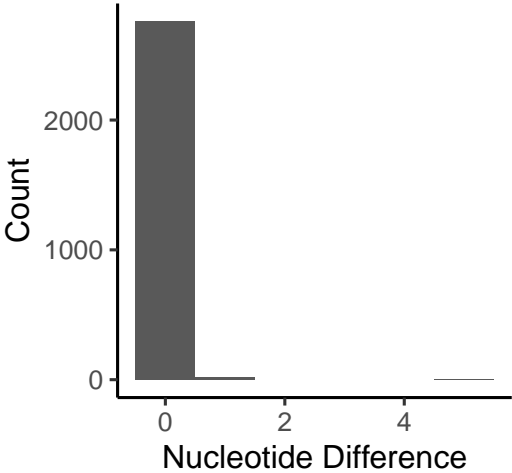
TRBV5-4\*ap01

7070 sequences assigned  
6968 (98.6%) exact matches, in which:  
6830 unique CDR3  
13 unique J



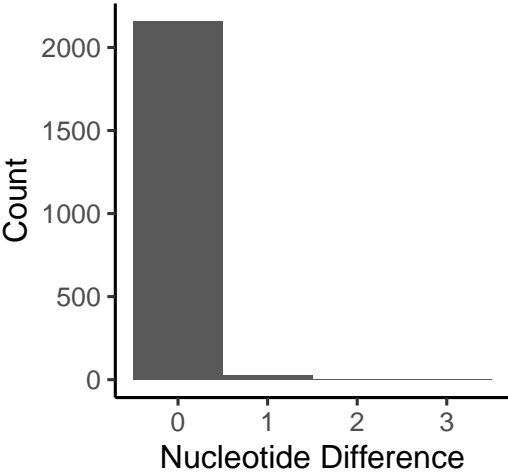
TRBV5-5\*ap01

2781 sequences assigned  
2760 (99.2%) exact matches, in which:  
2740 unique CDR3  
13 unique J



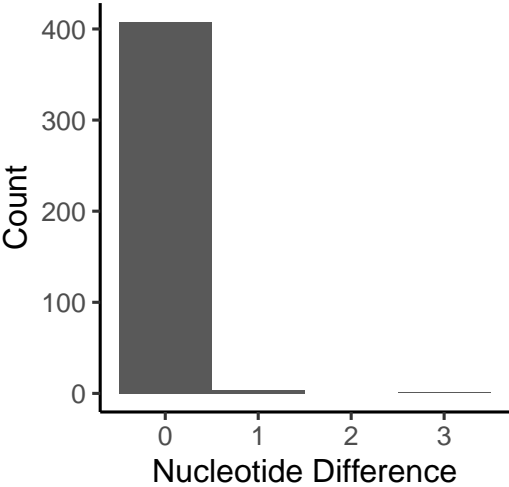
TRBV5-8\*ap01

2187 sequences assigned  
2157 (98.6%) exact matches, in which:  
2121 unique CDR3  
13 unique J



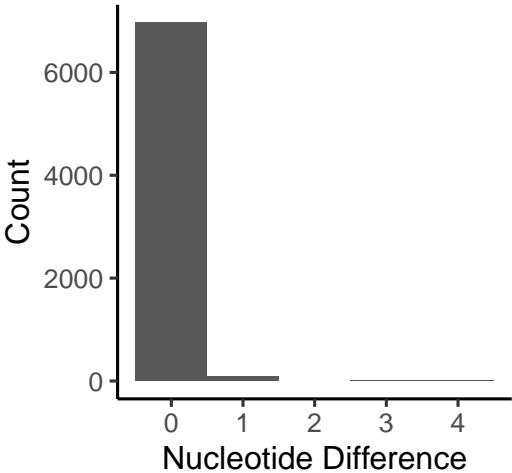
TRBV6-7\*ap01

413 sequences assigned  
408 (98.8%) exact matches, in which:  
406 unique CDR3  
13 unique J



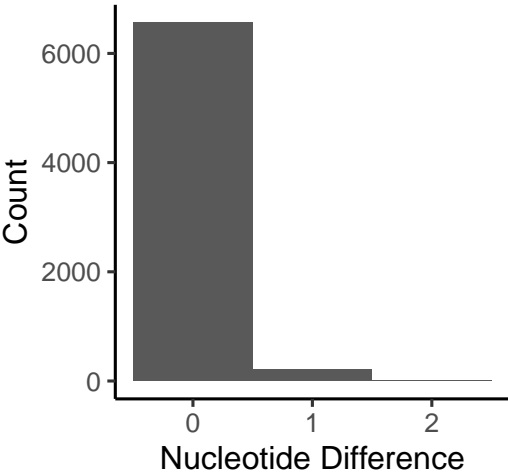
TRBV5-6\*ap01

7062 sequences assigned  
6966 (98.6%) exact matches, in which:  
6822 unique CDR3  
13 unique J



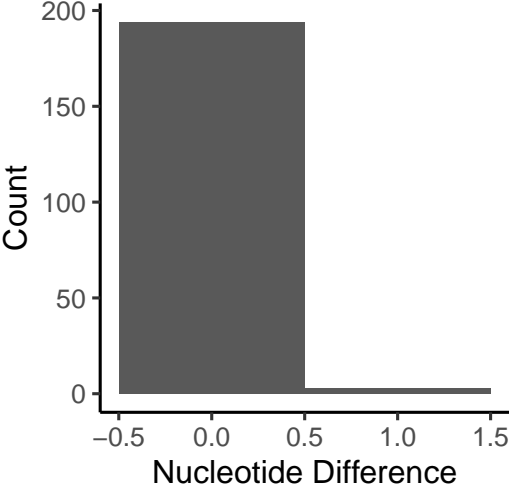
TRBV6-1\*ap01

6779 sequences assigned  
6562 (96.8%) exact matches, in which:  
6428 unique CDR3  
13 unique J



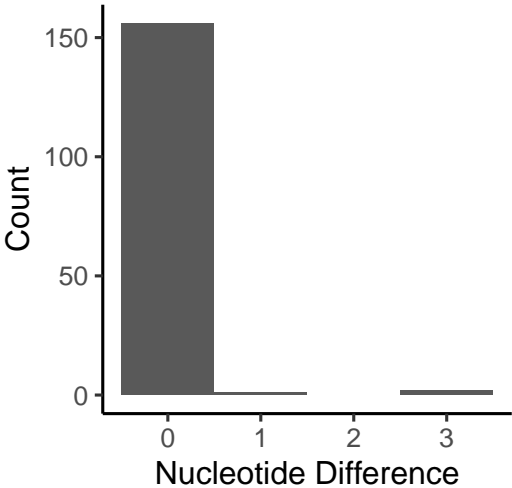
TRBV6-8\*ap01

197 sequences assigned  
194 (98.5%) exact matches, in which:  
190 unique CDR3  
13 unique J



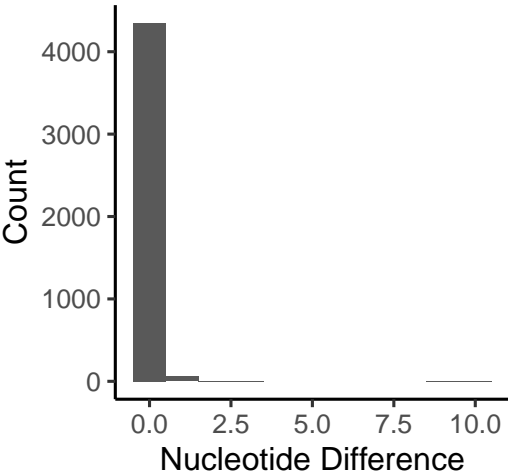
TRBV5-7\*ap01

159 sequences assigned  
156 (98.1%) exact matches, in which:  
151 unique CDR3  
13 unique J



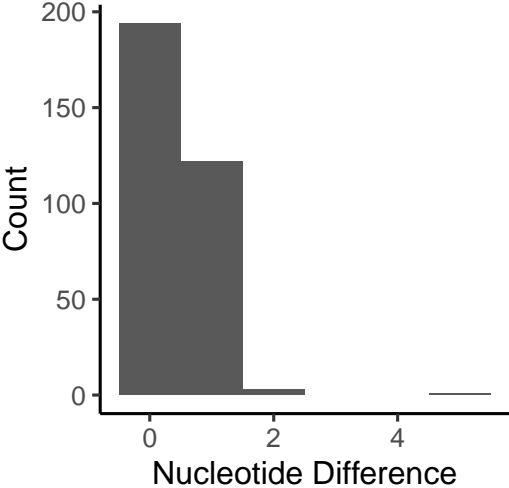
TRBV6-4\*ap01

4413 sequences assigned  
4348 (98.5%) exact matches, in which:  
4298 unique CDR3  
13 unique J



TRBV6-9\*ap01

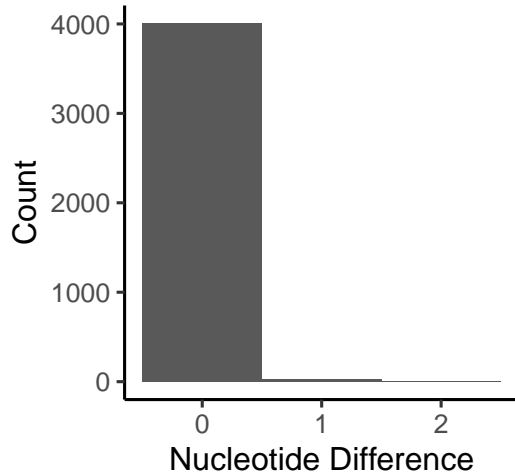
320 sequences assigned  
194 (60.6%) exact matches, in which:  
190 unique CDR3  
13 unique J





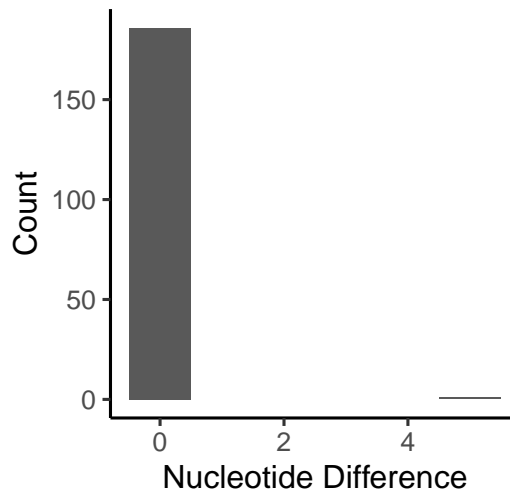
### TRBV6-23\*ap01

4034 sequences assigned  
4006 (99.3%) exact matches, in which:  
3935 unique CDR3  
13 unique J



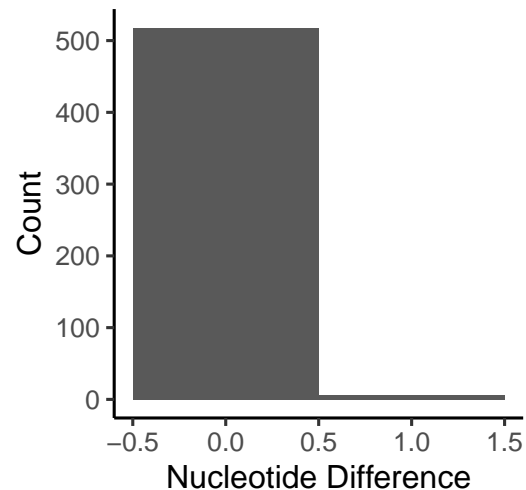
### TRBV7-1\*ap01\_G291C\_

187 sequences assigned  
186 (99.5%) exact matches, in which:  
183 unique CDR3  
13 unique J



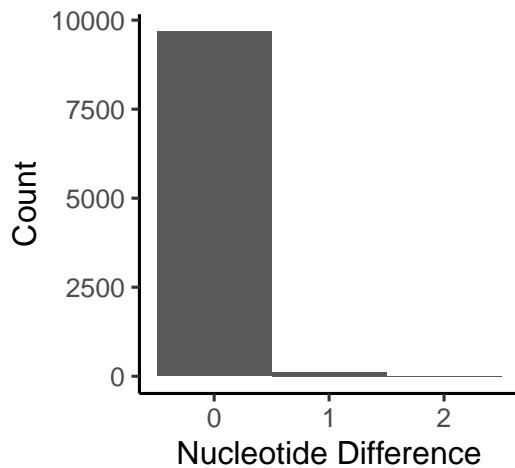
### TRBV7-4\*ap01

524 sequences assigned  
518 (98.9%) exact matches, in which:  
516 unique CDR3  
13 unique J



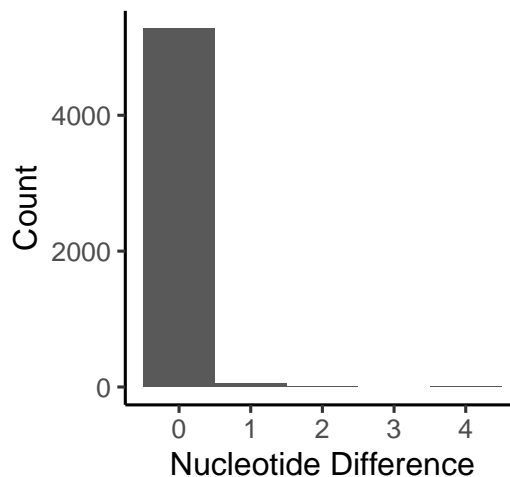
### TRBV6-56\*ap01

9808 sequences assigned  
9682 (98.7%) exact matches, in which:  
9509 unique CDR3  
13 unique J



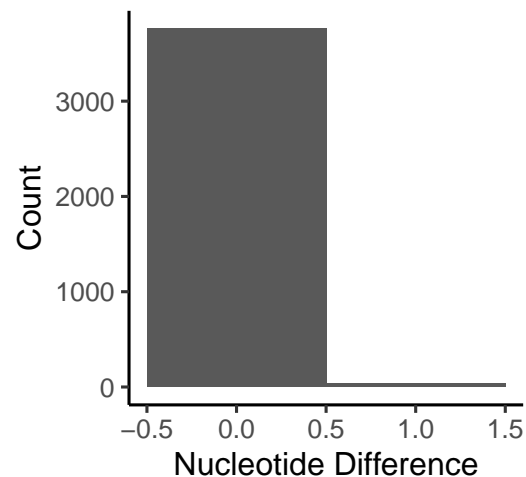
### TRBV7-2\*ap01

5323 sequences assigned  
5274 (99.1%) exact matches, in which:  
5194 unique CDR3  
13 unique J



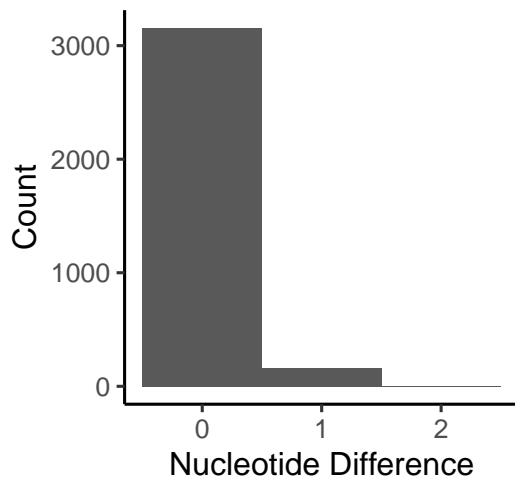
### TRBV7-6\*ap01

3794 sequences assigned  
3760 (99.1%) exact matches, in which:  
3701 unique CDR3  
13 unique J



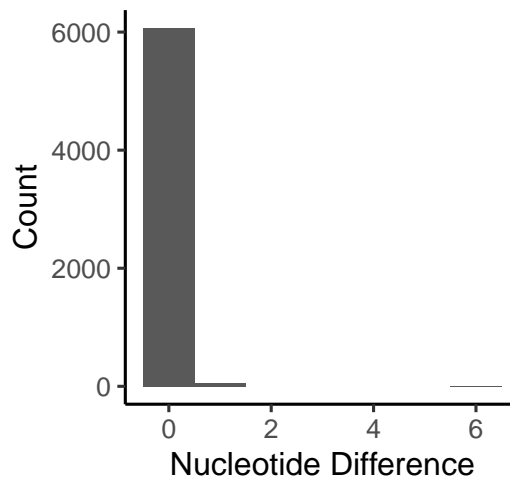
### TRBV6-56\*ap02

3316 sequences assigned  
3155 (95.1%) exact matches, in which:  
3091 unique CDR3  
13 unique J



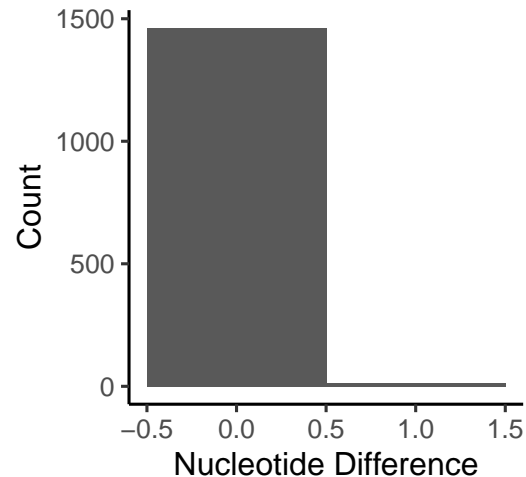
### TRBV7-3\*ap01

6128 sequences assigned  
6068 (99%) exact matches, in which:  
5999 unique CDR3  
13 unique J



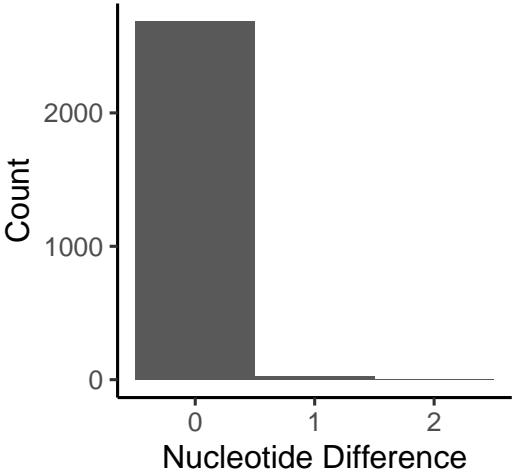
### TRBV7-7\*ap01\_C315T

1476 sequences assigned  
1462 (99.1%) exact matches, in which:  
1430 unique CDR3  
13 unique J



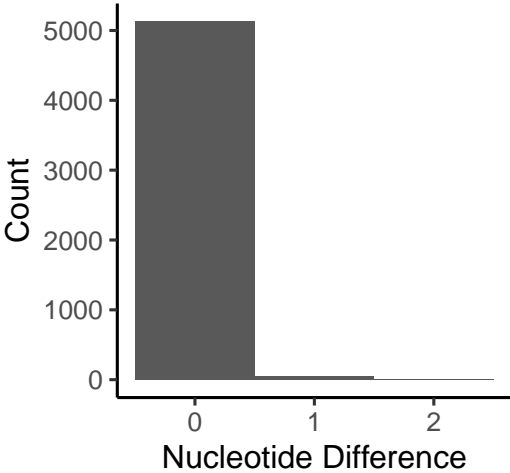
TRBV7-8\*ap01

2711 sequences assigned  
2686 (99.1%) exact matches, in which:  
2650 unique CDR3  
13 unique J



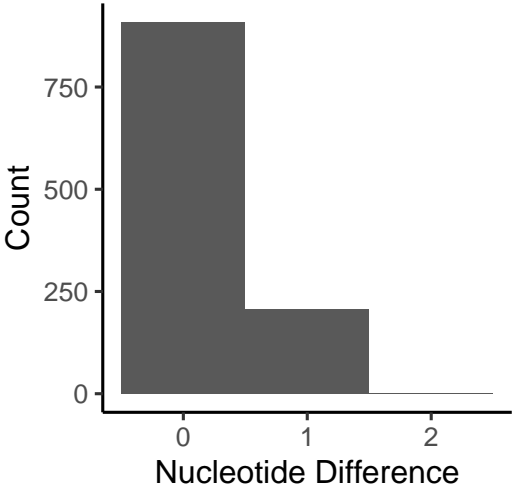
TRBV29-1\*ap01

5187 sequences assigned  
5130 (98.9%) exact matches, in which:  
5064 unique CDR3  
13 unique J



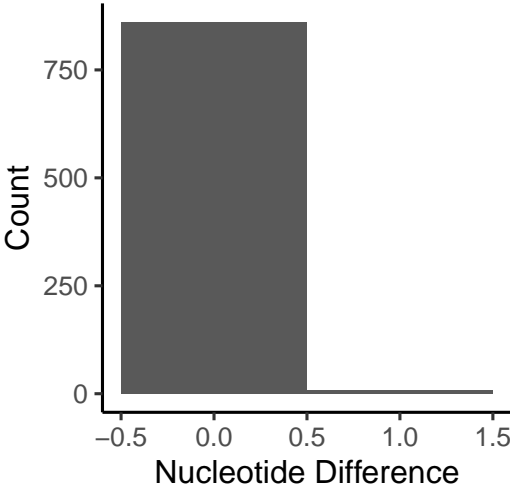
TRBV7-8\*ap03

1117 sequences assigned  
909 (81.4%) exact matches, in which:  
895 unique CDR3  
13 unique J



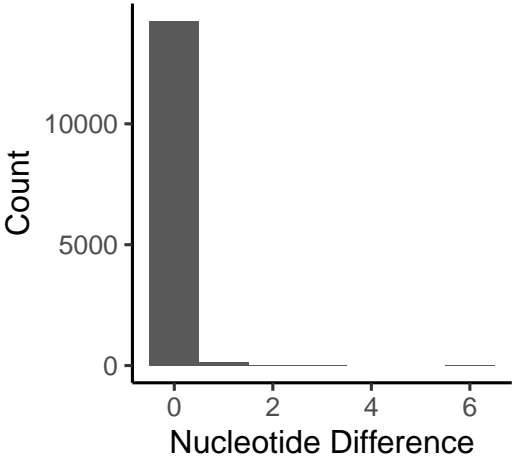
TRBV29-1\*ap02

869 sequences assigned  
861 (99.1%) exact matches, in which:  
850 unique CDR3  
13 unique J

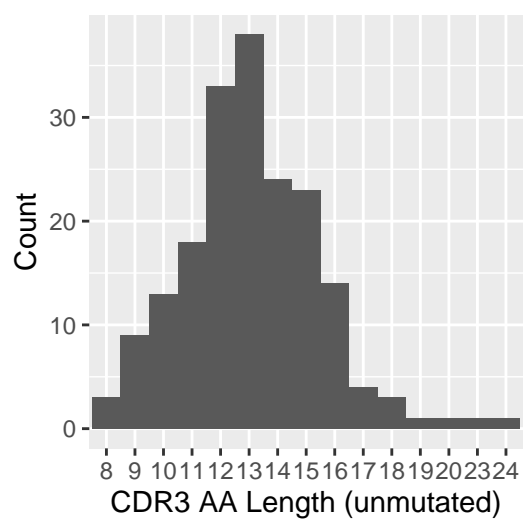


TRBV7-9\*ap01

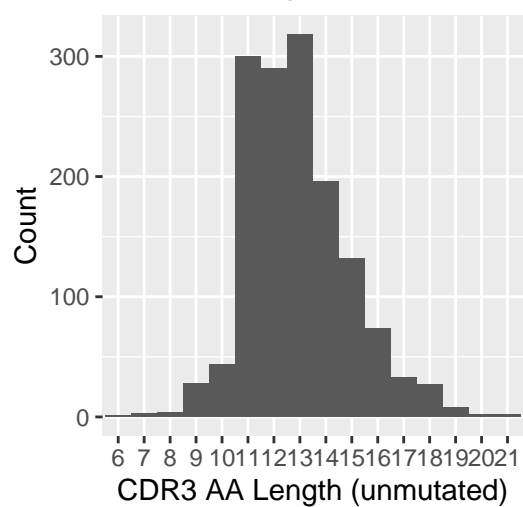
14406 sequences assigned  
14262 (99%) exact matches, in which:  
14058 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]