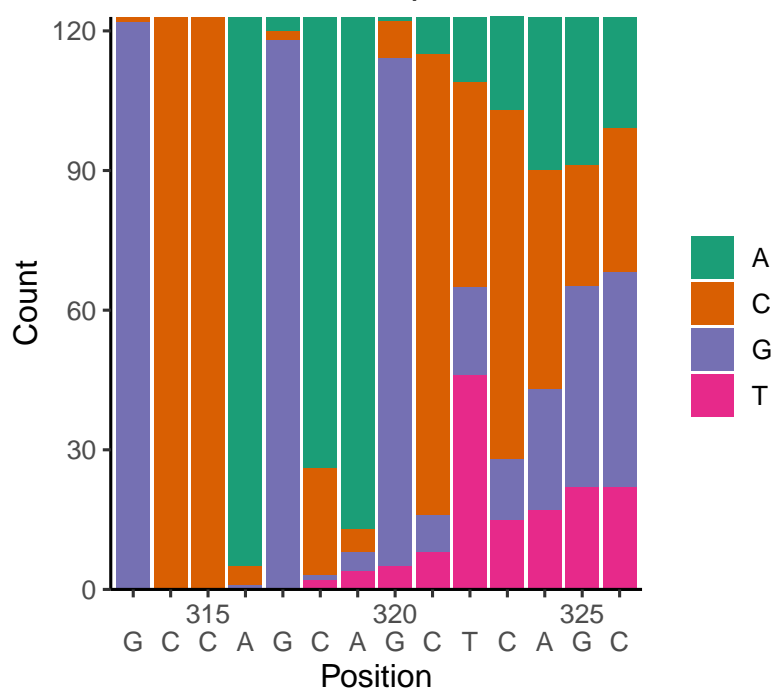
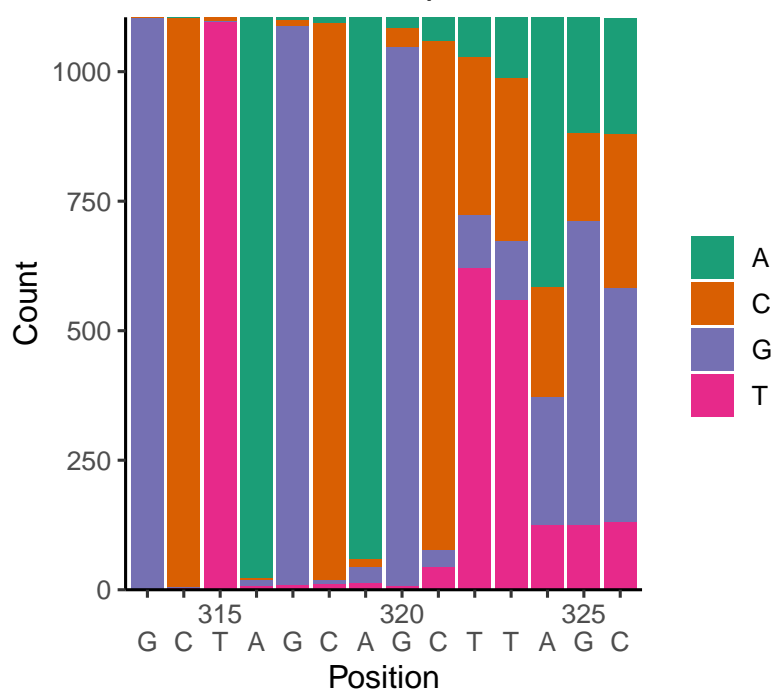


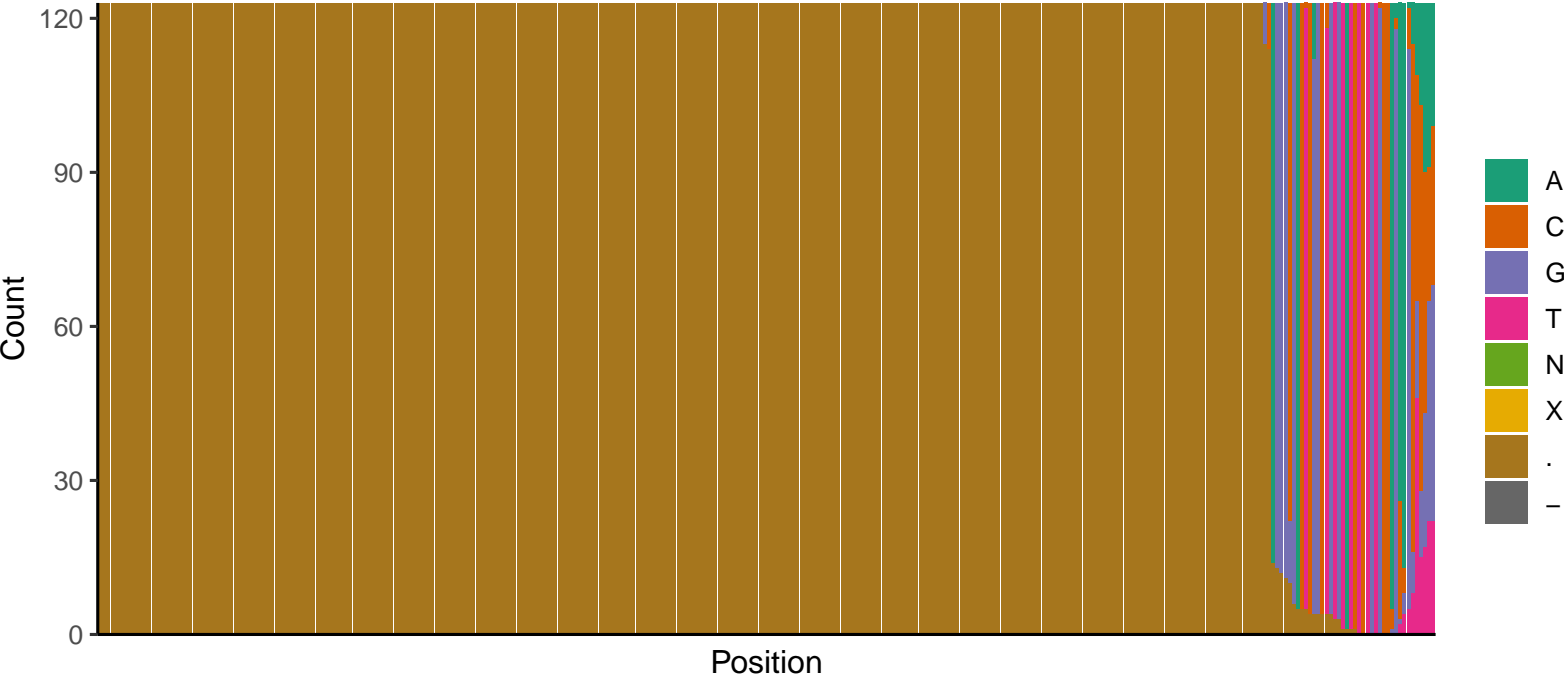
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



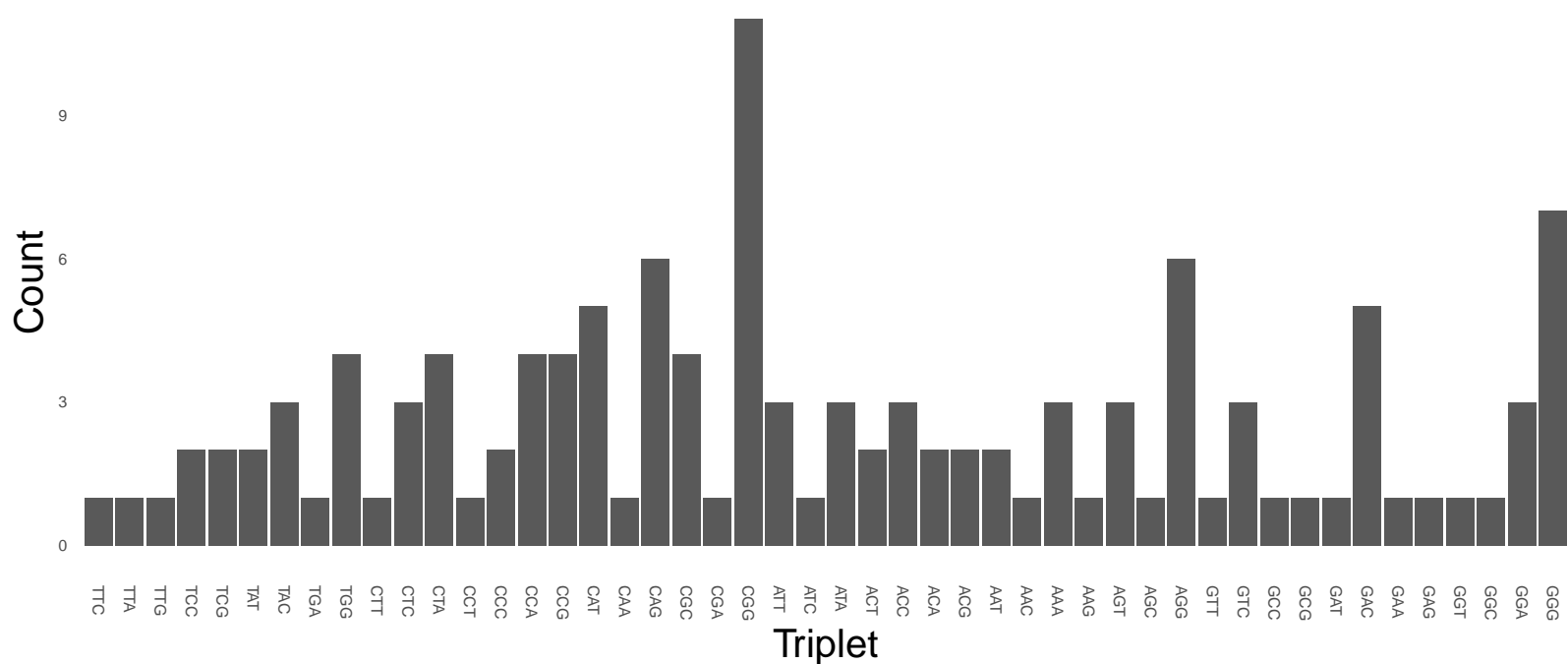
Gene TRBV7-1\*ap01\_T296C



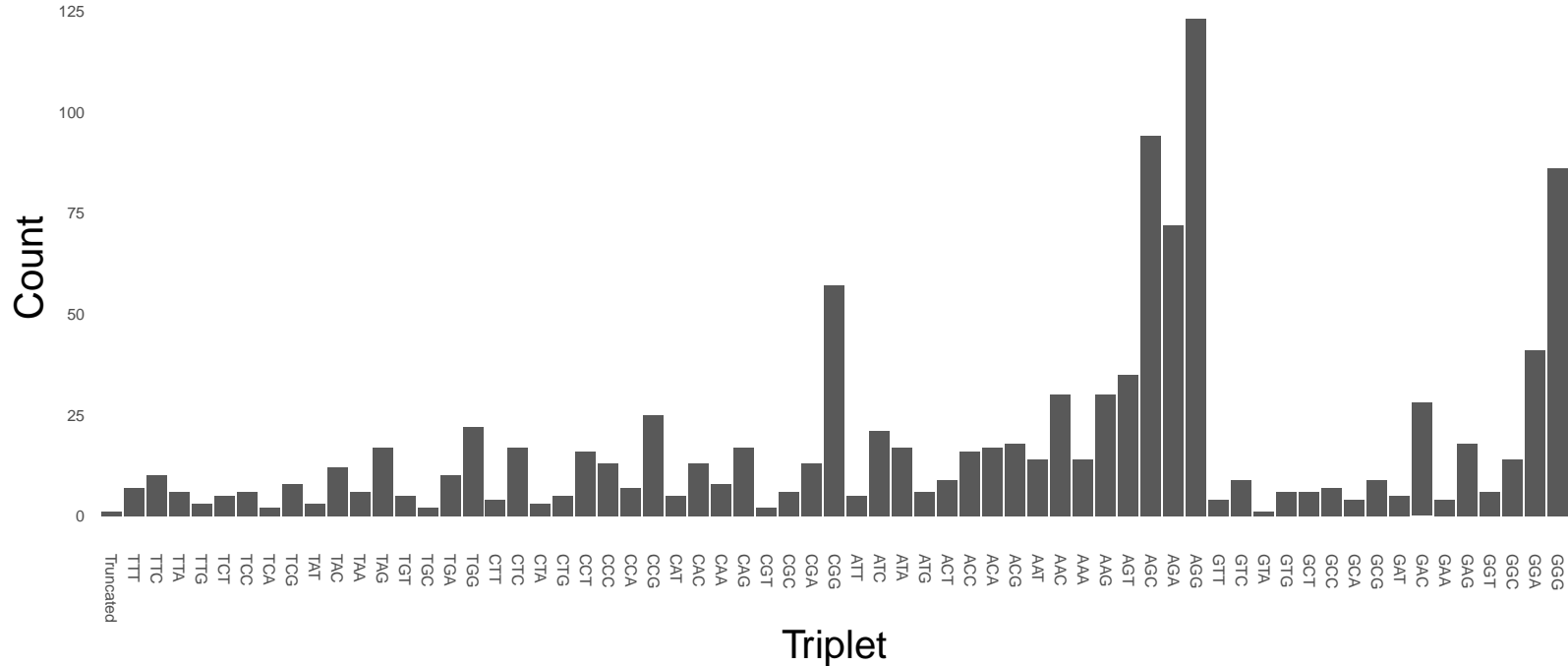
Gene TRBV7-7\*ap01\_C315T



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

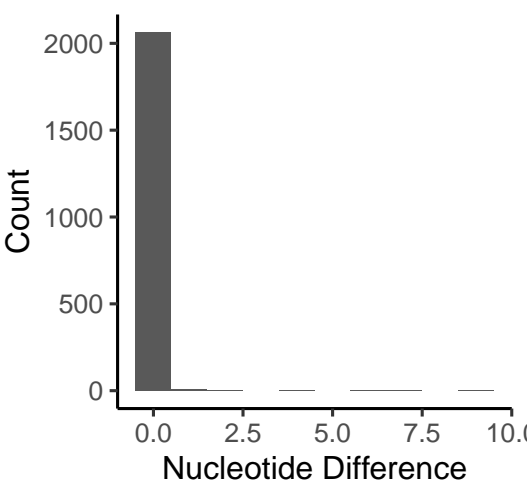


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



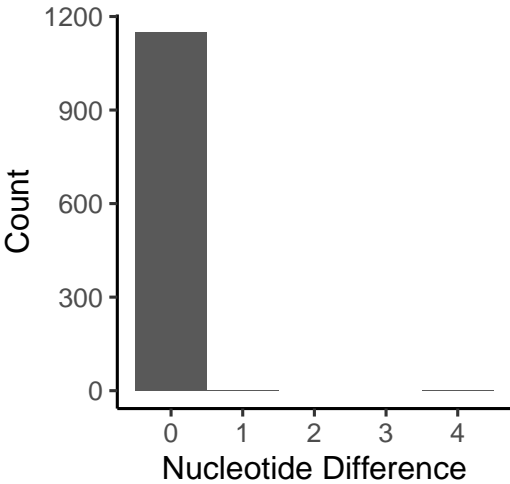
TRBV10-1\*ap01

2080 sequences assigned  
2063 (99.2%) exact matches, in which:  
2039 unique CDR3  
13 unique J



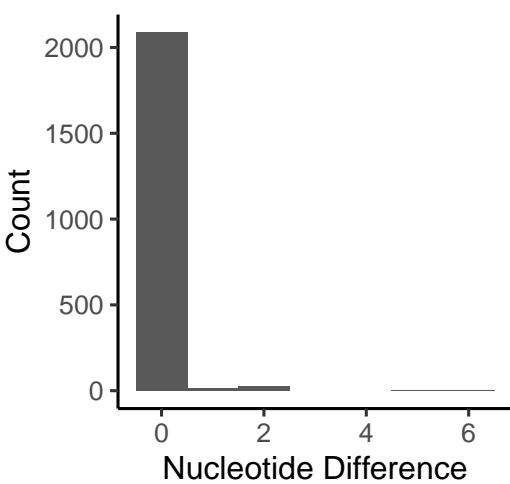
TRBV10-2\*ap01

1153 sequences assigned  
1149 (99.7%) exact matches, in which:  
1127 unique CDR3  
13 unique J



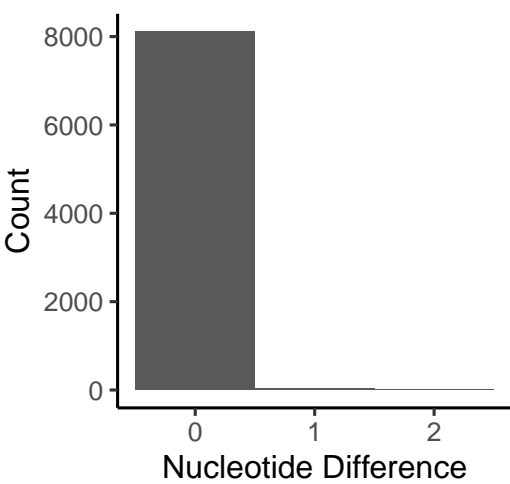
TRBV13\*ap01

2135 sequences assigned  
2088 (97.8%) exact matches, in which:  
2043 unique CDR3  
13 unique J



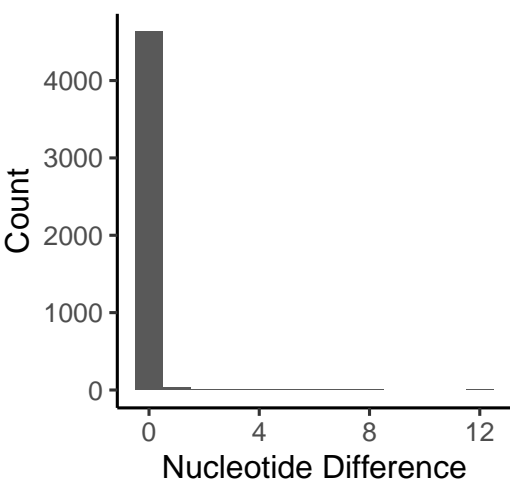
TRBV20-1\*ap01

8153 sequences assigned  
8110 (99.5%) exact matches, in which:  
8057 unique CDR3  
13 unique J



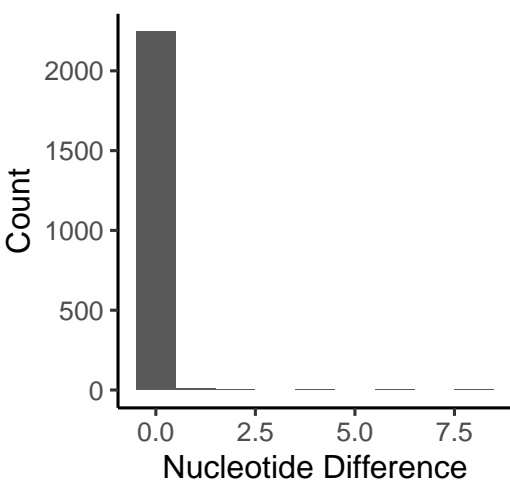
TRBV10-3\*ap01

4671 sequences assigned  
4631 (99.1%) exact matches, in which:  
4576 unique CDR3  
13 unique J



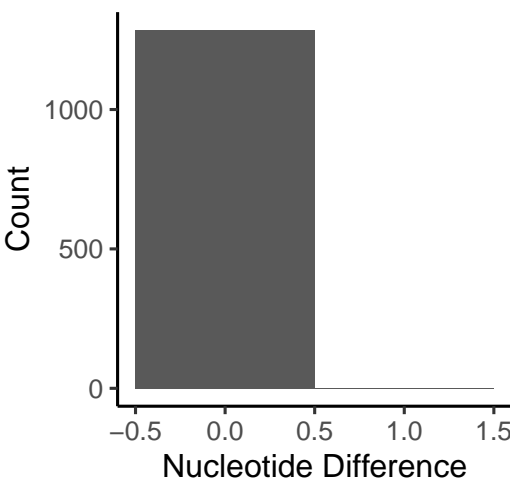
TRBV14\*ap01

2258 sequences assigned  
2245 (99.4%) exact matches, in which:  
2224 unique CDR3  
13 unique J



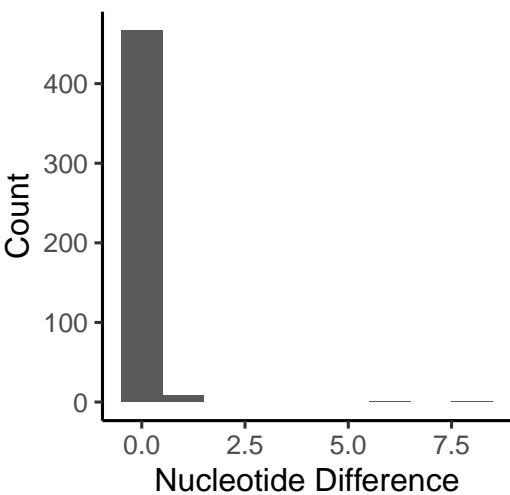
TRBV20-1\*ap02

1287 sequences assigned  
1285 (99.8%) exact matches, in which:  
1275 unique CDR3  
13 unique J



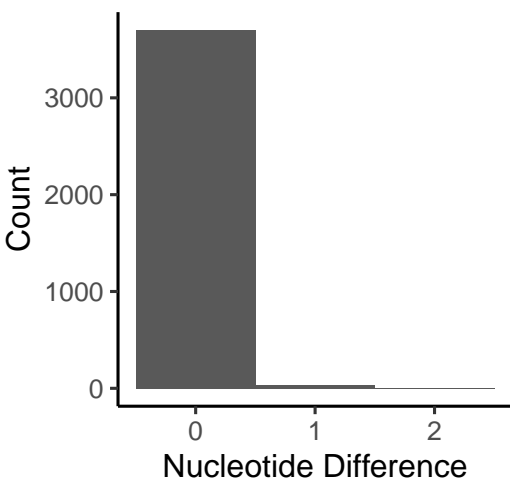
TRBV1\*ap01

477 sequences assigned  
467 (97.9%) exact matches, in which:  
460 unique CDR3  
13 unique J



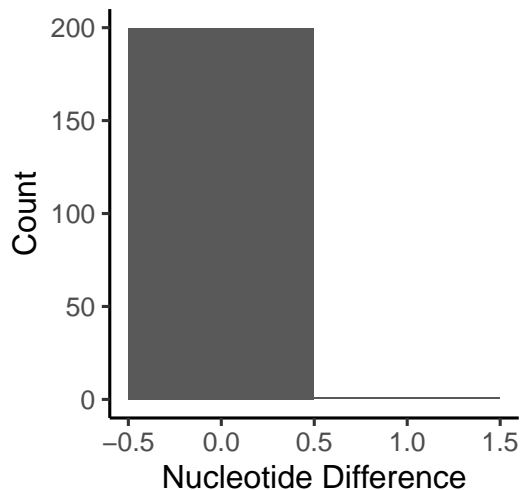
TRBV15\*ap02

3740 sequences assigned  
3700 (98.9%) exact matches, in which:  
3644 unique CDR3  
13 unique J



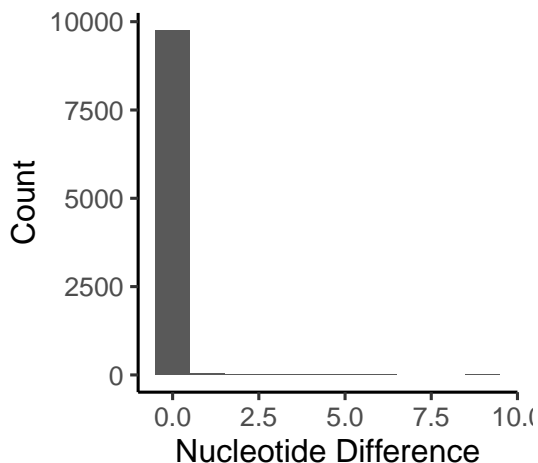
### TRBV16\*ap01

201 sequences assigned  
200 (99.5%) exact matches, in which:  
199 unique CDR3  
13 unique J



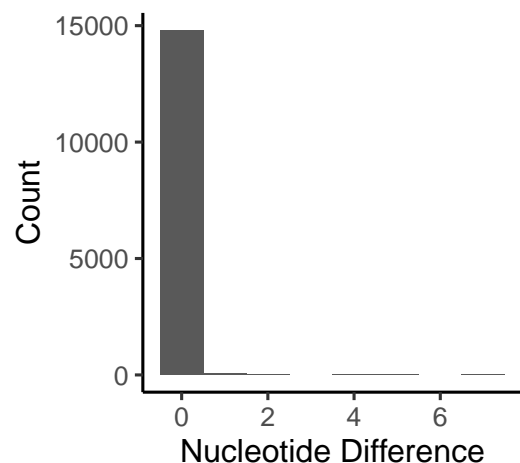
### TRBV2\*ap01

9820 sequences assigned  
9760 (99.4%) exact matches, in which:  
9634 unique CDR3  
13 unique J



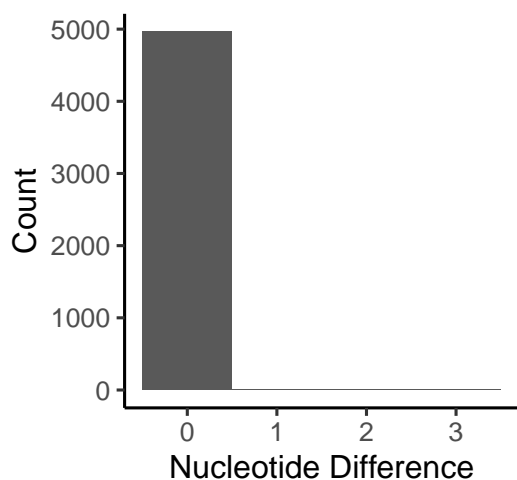
### TRBV28\*ap01

14878 sequences assigned  
14807 (99.5%) exact matches, in which:  
14697 unique CDR3  
13 unique J



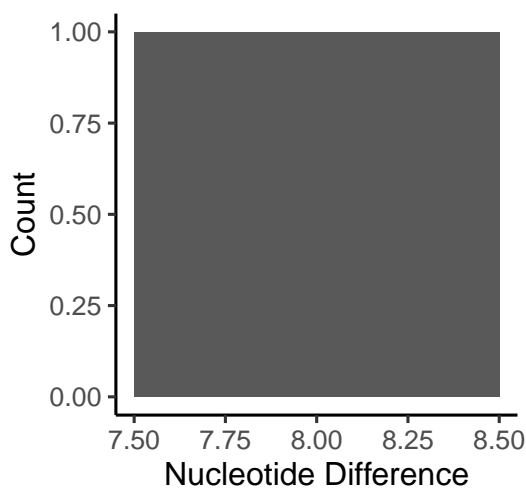
### TRBV18\*ap01

4979 sequences assigned  
4964 (99.7%) exact matches, in which:  
4932 unique CDR3  
13 unique J



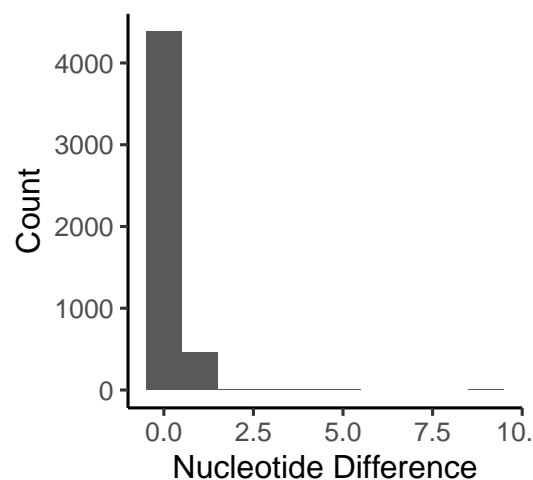
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



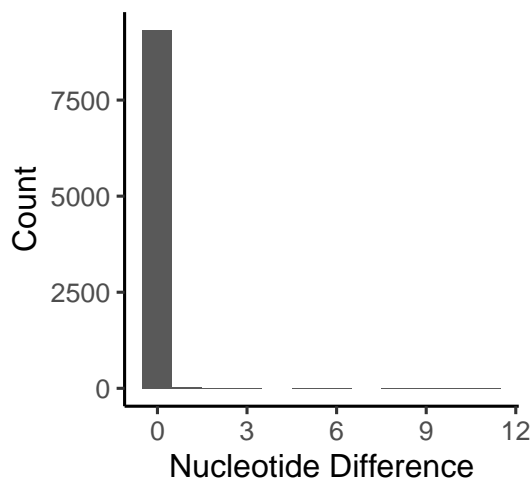
### TRBV30\*ap01

4849 sequences assigned  
4382 (90.4%) exact matches, in which:  
4230 unique CDR3  
13 unique J



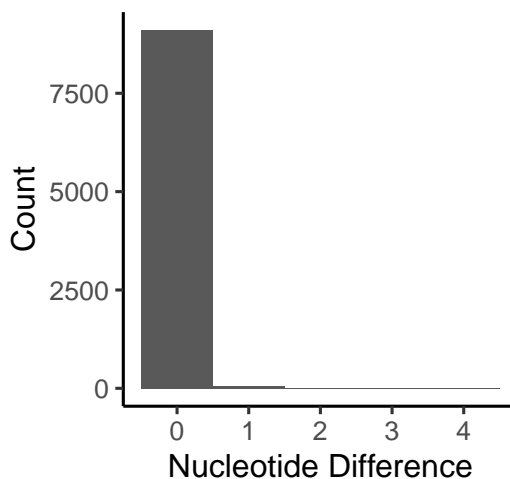
### TRBV19\*ap01

9375 sequences assigned  
9322 (99.4%) exact matches, in which:  
9273 unique CDR3  
14 unique J



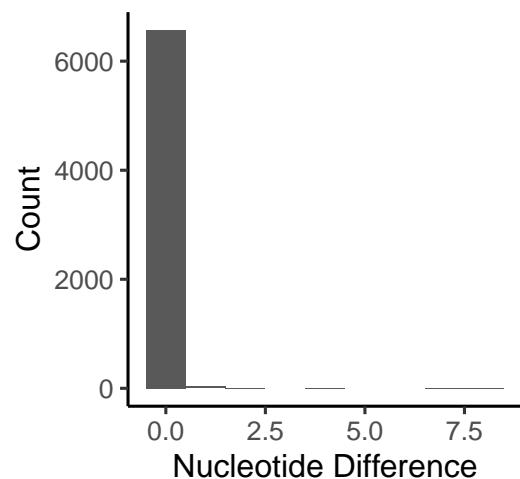
### TRBV27\*ap01

9175 sequences assigned  
9107 (99.3%) exact matches, in which:  
9011 unique CDR3  
13 unique J



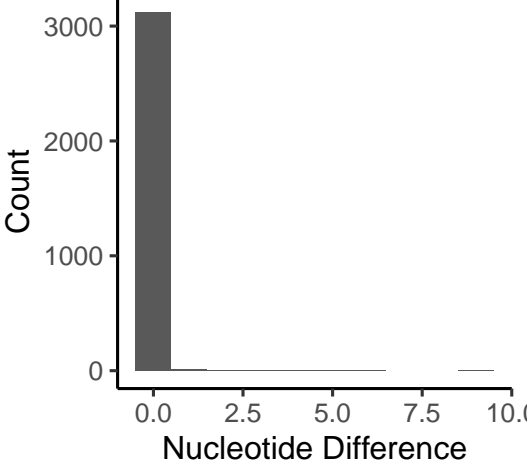
### TRBV9\*ap01

6609 sequences assigned  
6571 (99.4%) exact matches, in which:  
6522 unique CDR3  
13 unique J



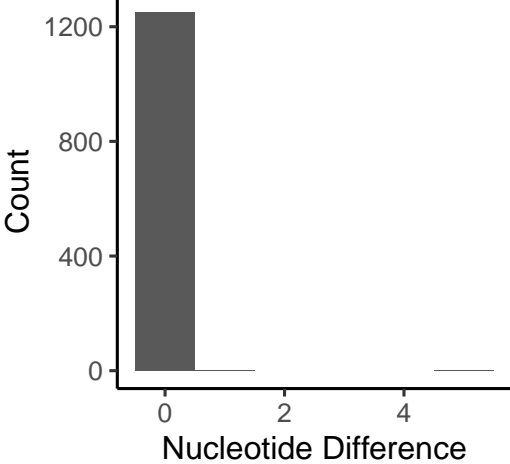
TRBV21-1\*ap01

3147 sequences assigned  
3119 (99.1%) exact matches, in which:  
3099 unique CDR3  
13 unique J



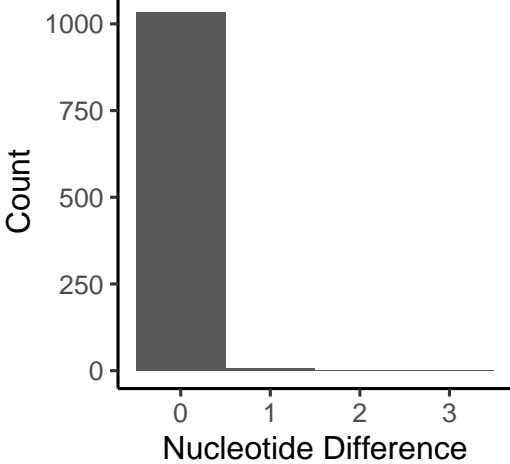
TRBV11-3\*ap01

1255 sequences assigned  
1250 (99.6%) exact matches, in which:  
1242 unique CDR3  
13 unique J



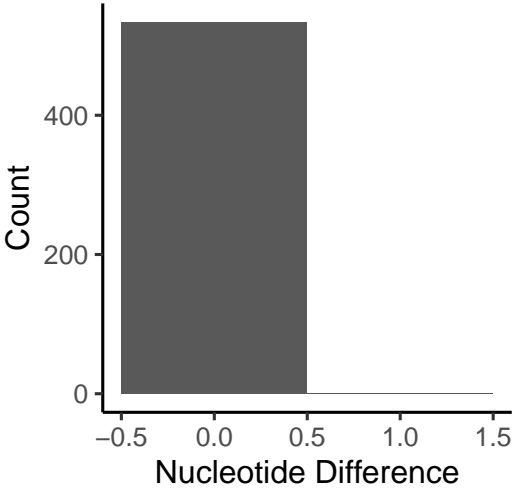
TRBV12-5\*ap01

1042 sequences assigned  
1033 (99.1%) exact matches, in which:  
1020 unique CDR3  
13 unique J



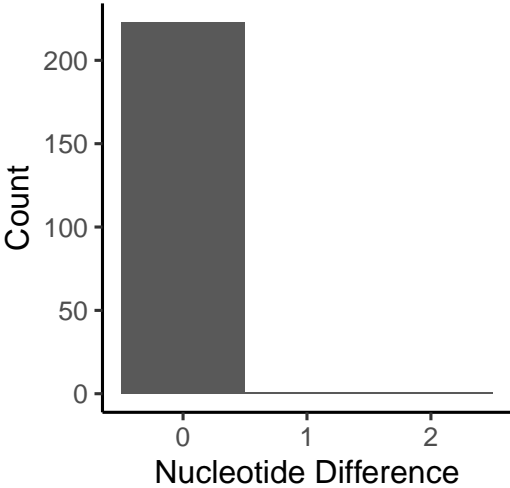
TRBV11-1\*ap01

535 sequences assigned  
534 (99.8%) exact matches, in which:  
530 unique CDR3  
13 unique J



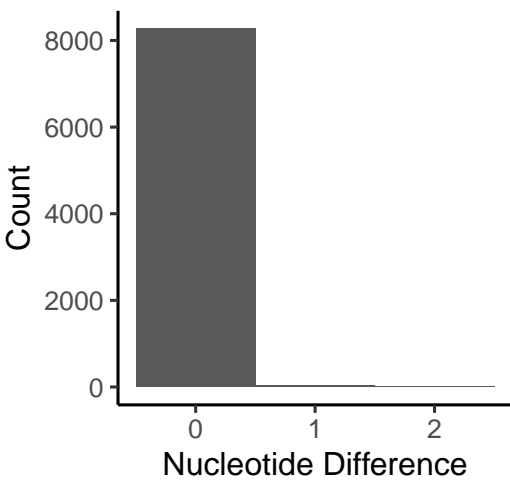
TRBV12-1\*ap01

225 sequences assigned  
223 (99.1%) exact matches, in which:  
220 unique CDR3  
13 unique J



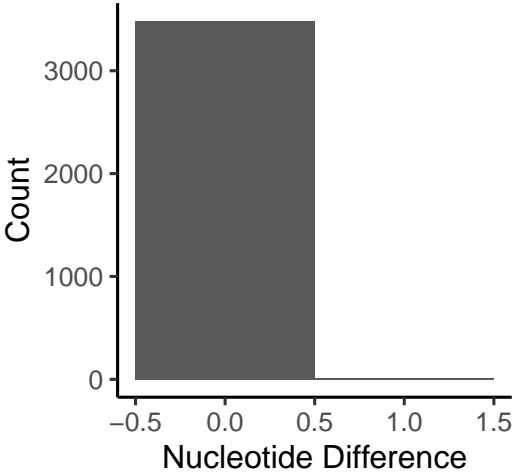
TRBV12-34\*ap01

8317 sequences assigned  
8271 (99.4%) exact matches, in which:  
8186 unique CDR3  
13 unique J



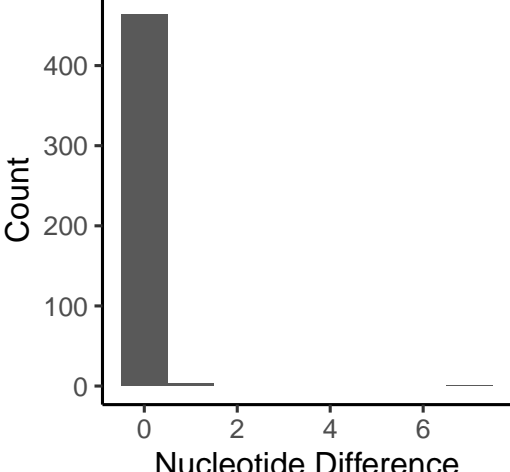
TRBV11-2\*ap01

3494 sequences assigned  
3483 (99.7%) exact matches, in which:  
3461 unique CDR3  
13 unique J



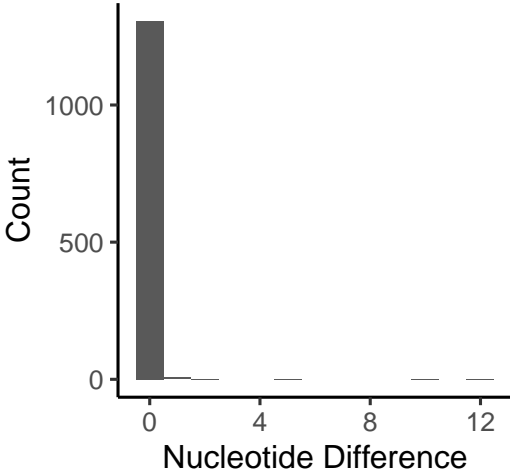
TRBV12-2\*ap01

468 sequences assigned  
464 (99.1%) exact matches, in which:  
454 unique CDR3  
13 unique J



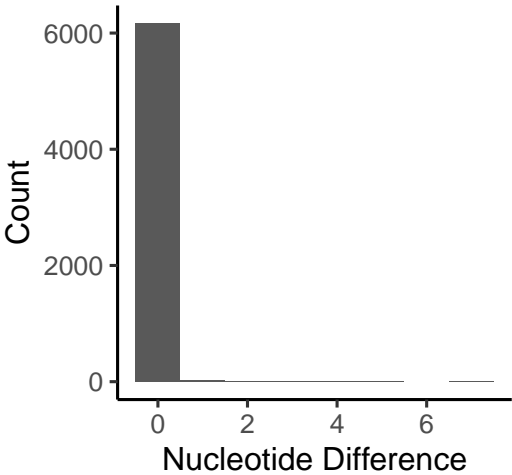
TRBV23-1\*ap01

1318 sequences assigned  
1306 (99.1%) exact matches, in which:  
1294 unique CDR3  
13 unique J



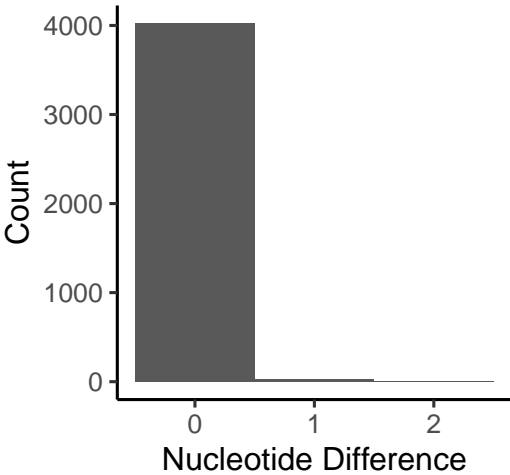
TRBV3-12\*ap01

6204 sequences assigned  
6166 (99.4%) exact matches, in which:  
6114 unique CDR3  
13 unique J



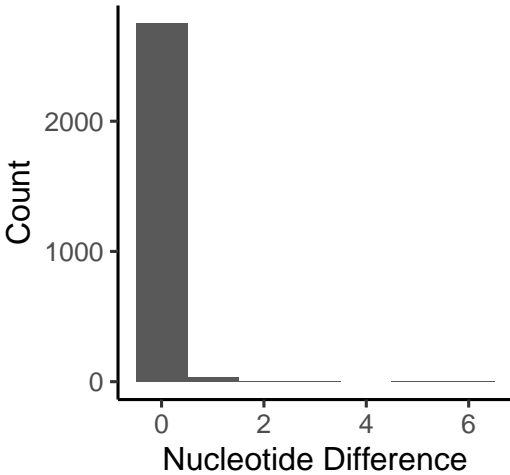
TRBV4-2\*ap01

4050 sequences assigned  
4023 (99.3%) exact matches, in which:  
3981 unique CDR3  
13 unique J



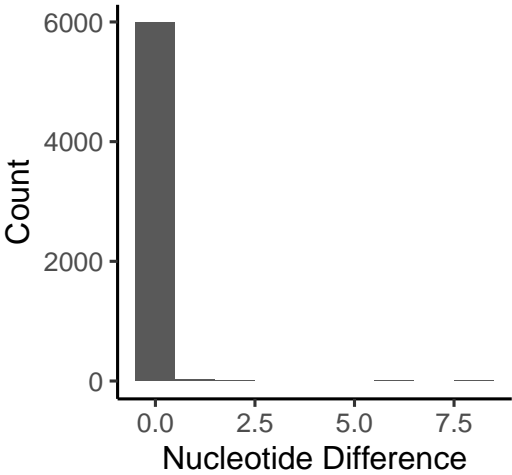
TRBV25-1\*ap01

2790 sequences assigned  
2751 (98.6%) exact matches, in which:  
2682 unique CDR3  
13 unique J



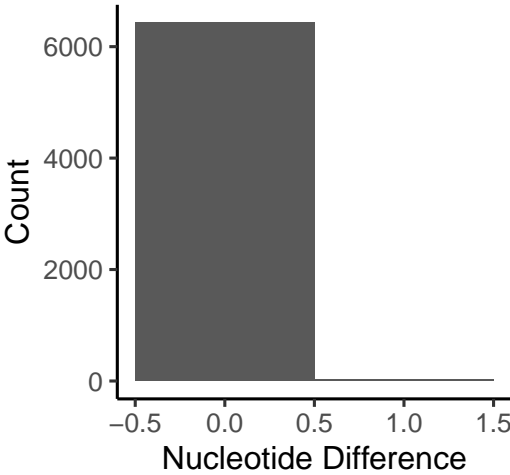
TRBV4-1\*ap01

6016 sequences assigned  
5987 (99.5%) exact matches, in which:  
5891 unique CDR3  
13 unique J



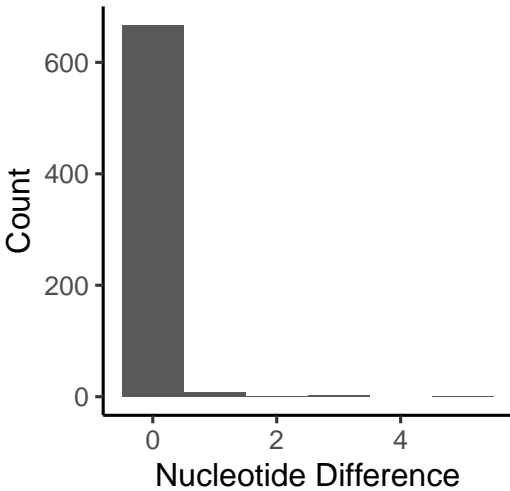
TRBV4-3\*ap01

6458 sequences assigned  
6429 (99.6%) exact matches, in which:  
6339 unique CDR3  
13 unique J



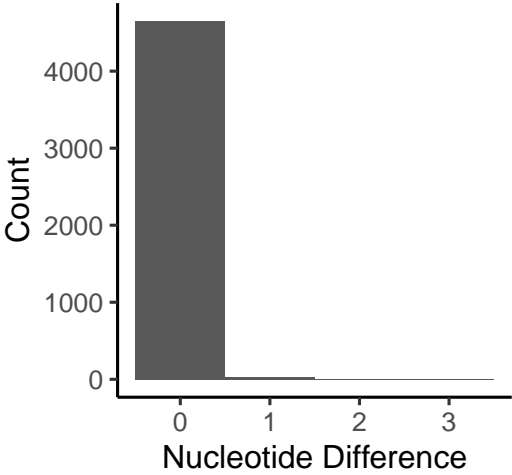
TRBV5-3\*ap01

679 sequences assigned  
667 (98.2%) exact matches, in which:  
660 unique CDR3  
13 unique J



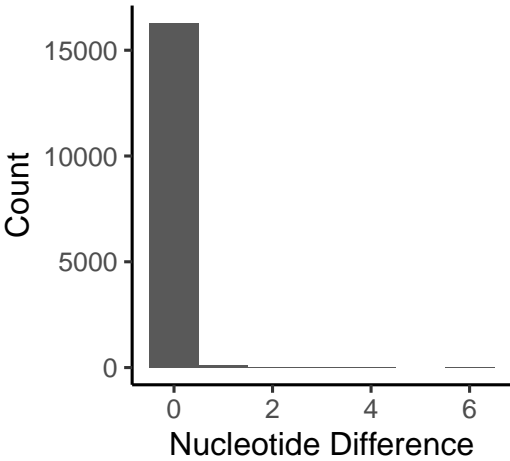
TRBV24-1\*ap01

4685 sequences assigned  
4650 (99.3%) exact matches, in which:  
4568 unique CDR3  
13 unique J



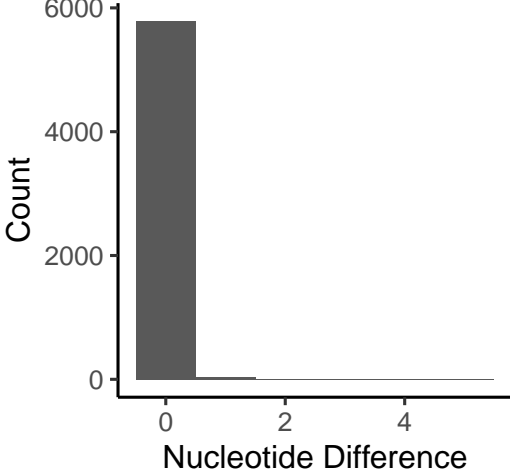
TRBV5-1\*ap01

16402 sequences assigned  
16297 (99.4%) exact matches, in which:  
16089 unique CDR3  
13 unique J



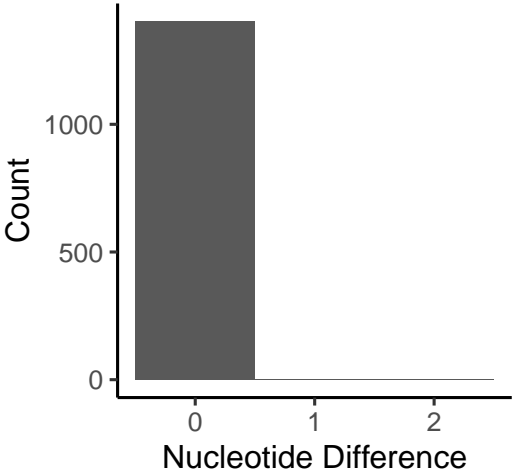
TRBV5-4\*ap01

5828 sequences assigned  
5787 (99.3%) exact matches, in which:  
5714 unique CDR3  
13 unique J



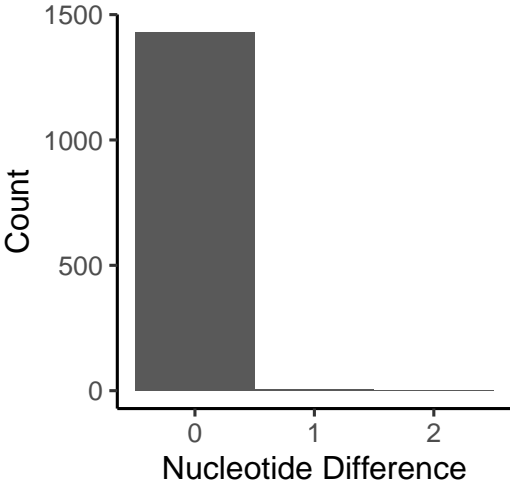
TRBV5-5\*ap01

1406 sequences assigned  
1403 (99.8%) exact matches, in which:  
1393 unique CDR3  
13 unique J



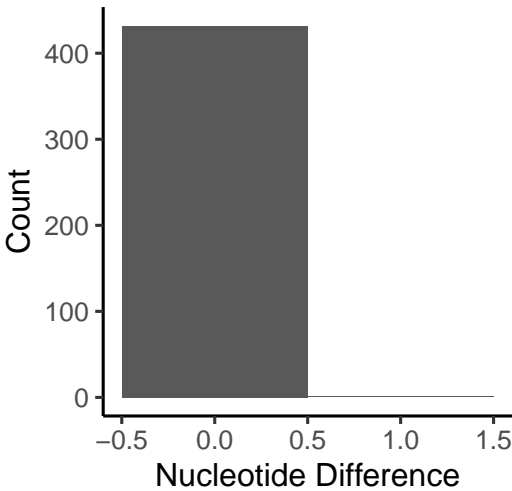
TRBV5-8\*ap01

1434 sequences assigned  
1429 (99.7%) exact matches, in which:  
1411 unique CDR3  
13 unique J



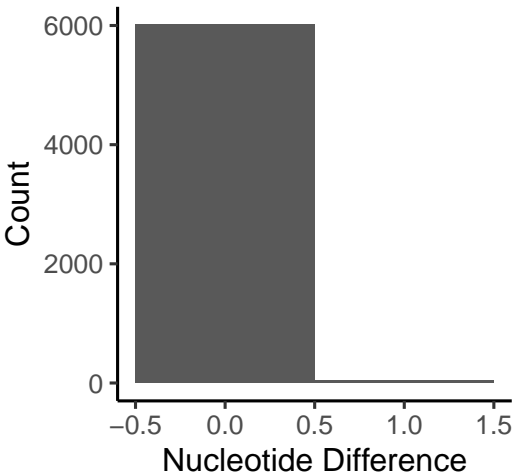
TRBV6-7\*ap01

433 sequences assigned  
432 (99.8%) exact matches, in which:  
427 unique CDR3  
13 unique J



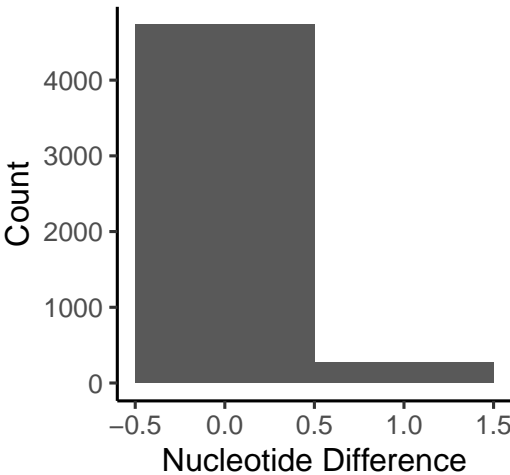
TRBV5-6\*ap01

6060 sequences assigned  
6013 (99.2%) exact matches, in which:  
5866 unique CDR3  
13 unique J



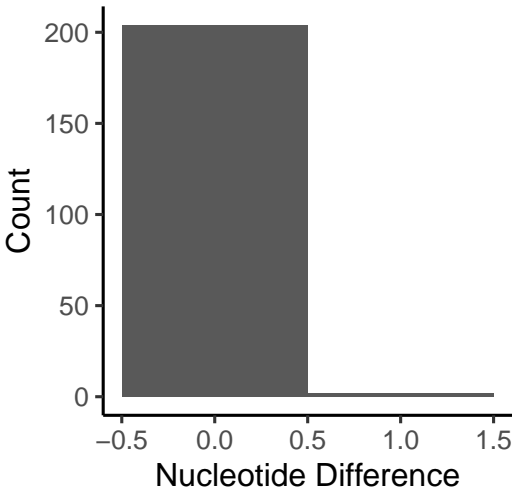
TRBV6-1\*ap01

5002 sequences assigned  
4732 (94.6%) exact matches, in which:  
4652 unique CDR3  
13 unique J



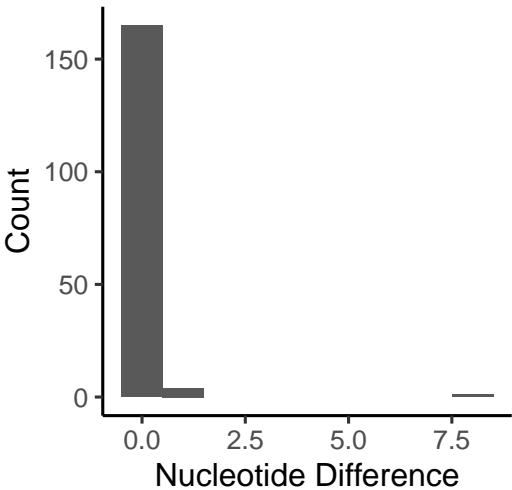
TRBV6-8\*ap01

206 sequences assigned  
204 (99%) exact matches, in which:  
201 unique CDR3  
13 unique J



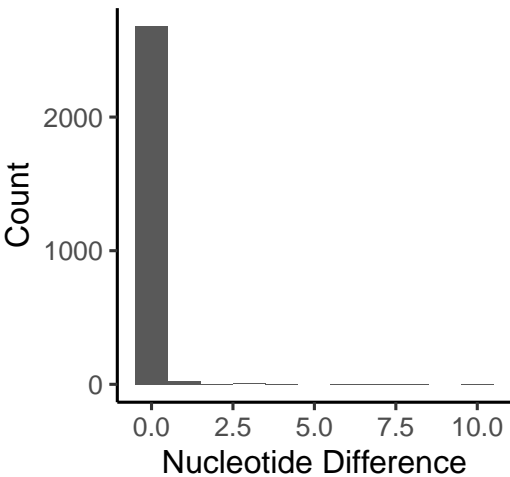
TRBV5-7\*ap01

170 sequences assigned  
165 (97.1%) exact matches, in which:  
160 unique CDR3  
12 unique J



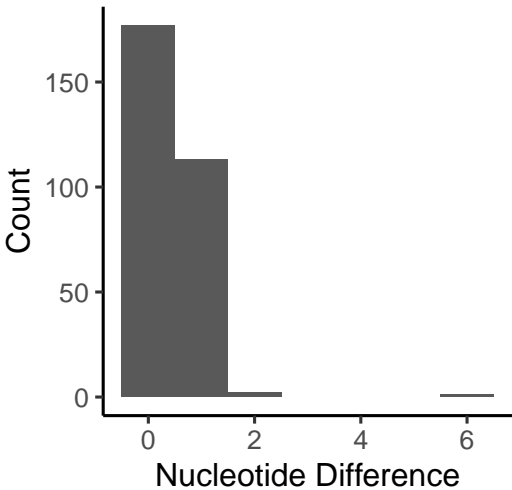
TRBV6-4\*ap01

2719 sequences assigned  
2681 (98.6%) exact matches, in which:  
2652 unique CDR3  
13 unique J



TRBV6-9\*ap01

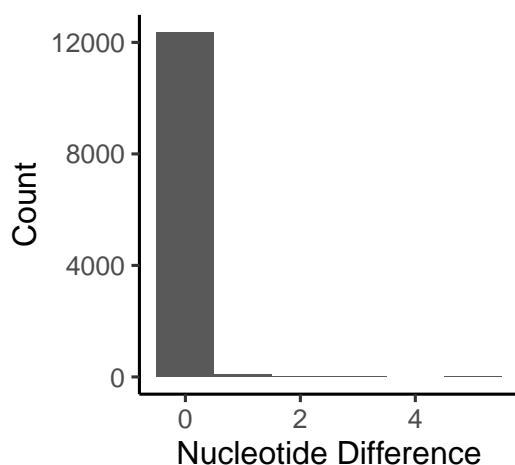
293 sequences assigned  
177 (60.4%) exact matches, in which:  
174 unique CDR3  
13 unique J





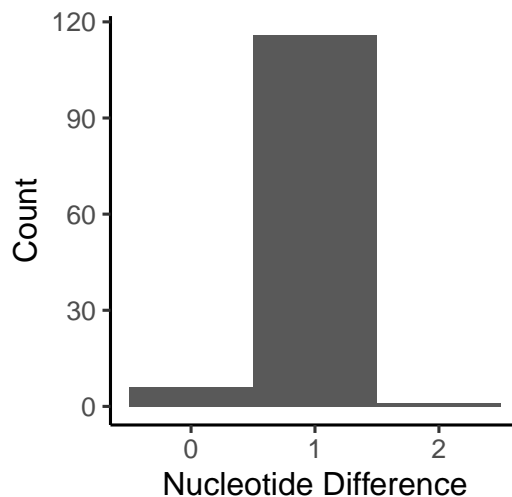
### TRBV6-23\*ap01

12461 sequences assigned  
12368 (99.3%) exact matches, in which:  
12123 unique CDR3  
13 unique J



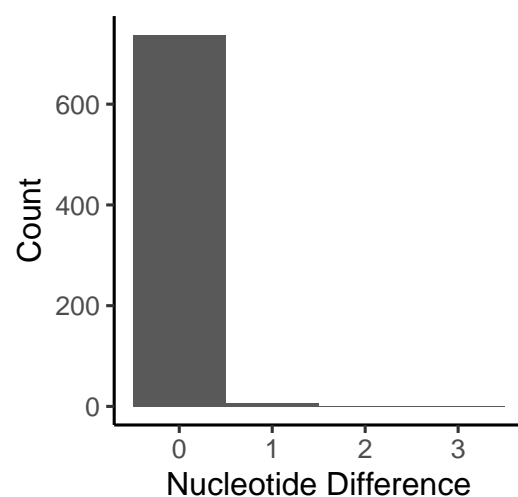
### TRBV7-1\*ap01\_T296C

123 sequences assigned  
6 (4.9%) exact matches, in which:  
6 unique CDR3  
5 unique J



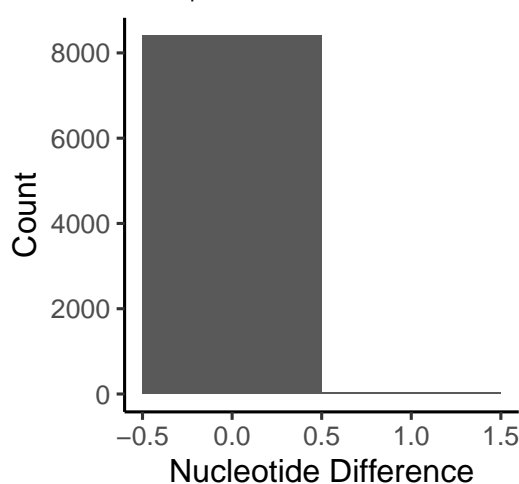
### TRBV7-3\*ap03

747 sequences assigned  
738 (98.8%) exact matches, in which:  
730 unique CDR3  
13 unique J



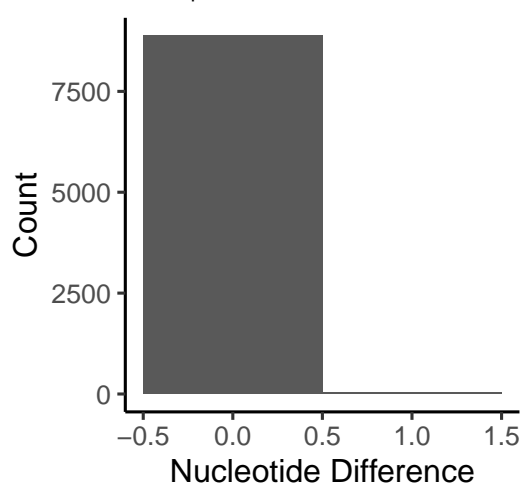
### TRBV6-56\*ap01

8444 sequences assigned  
8403 (99.5%) exact matches, in which:  
8216 unique CDR3  
13 unique J



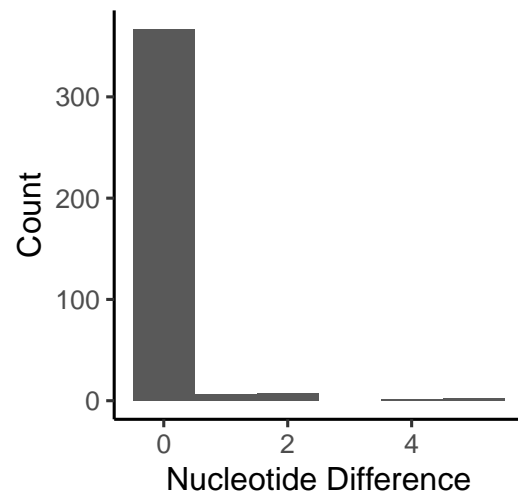
### TRBV7-2\*ap01

8907 sequences assigned  
8879 (99.7%) exact matches, in which:  
8808 unique CDR3  
13 unique J



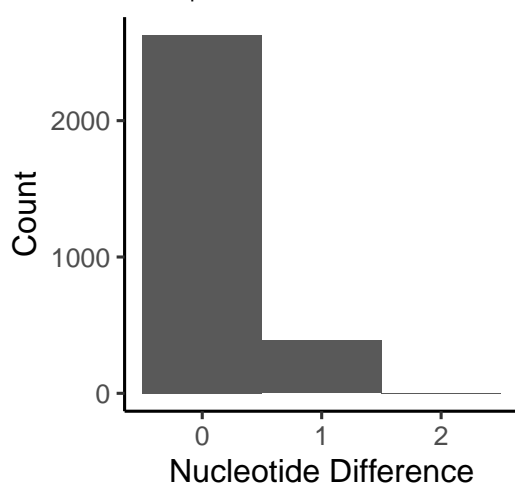
### TRBV7-4\*ap01

383 sequences assigned  
367 (95.8%) exact matches, in which:  
362 unique CDR3  
13 unique J



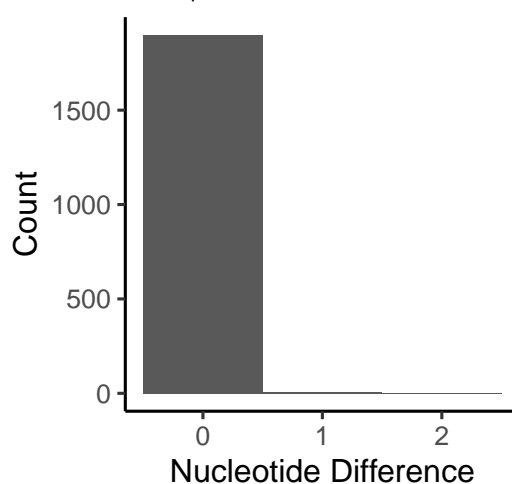
### TRBV6-56\*ap02

3018 sequences assigned  
2628 (87.1%) exact matches, in which:  
2585 unique CDR3  
13 unique J



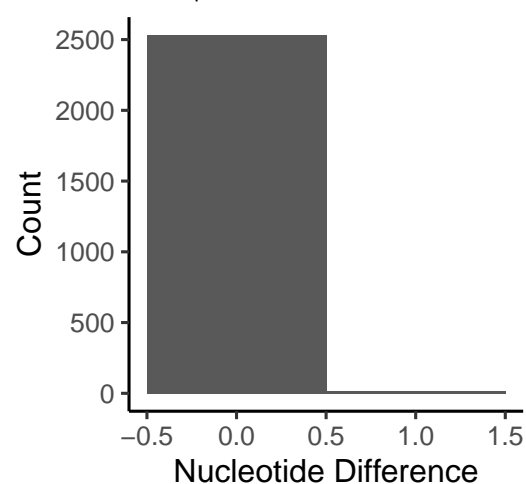
### TRBV7-3\*ap01

1907 sequences assigned  
1898 (99.5%) exact matches, in which:  
1892 unique CDR3  
13 unique J



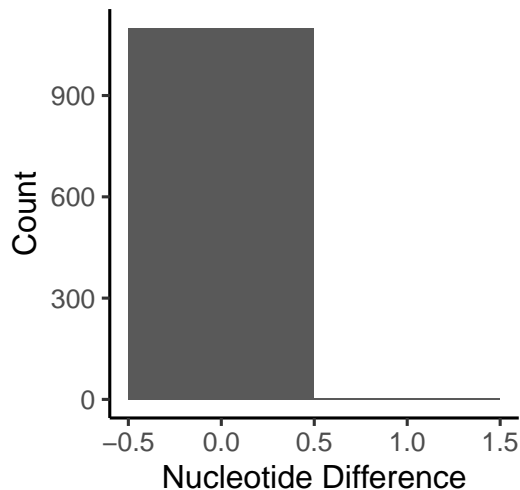
### TRBV7-6\*ap01

2548 sequences assigned  
2532 (99.4%) exact matches, in which:  
2498 unique CDR3  
13 unique J



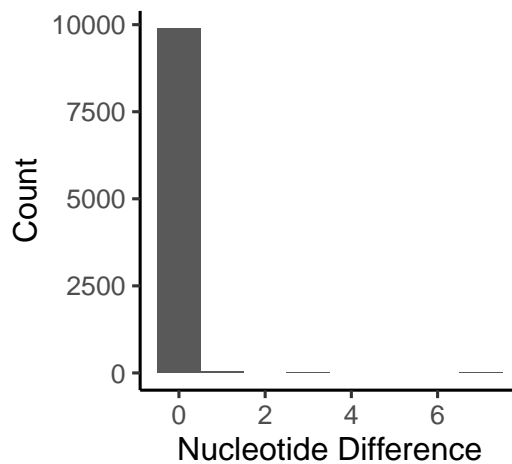
### TRBV7-7\*ap01\_C315T

1105 sequences assigned  
1101 (99.6%) exact matches, in which:  
1090 unique CDR3  
13 unique J



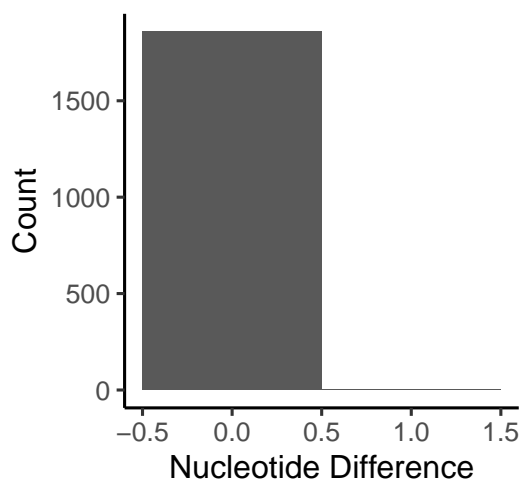
### TRBV7-9\*ap01

9951 sequences assigned  
9900 (99.5%) exact matches, in which:  
9787 unique CDR3  
13 unique J



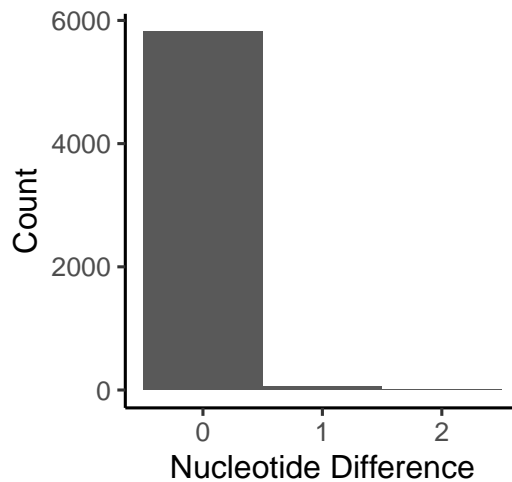
### TRBV7-8\*ap01

1863 sequences assigned  
1858 (99.7%) exact matches, in which:  
1837 unique CDR3  
13 unique J



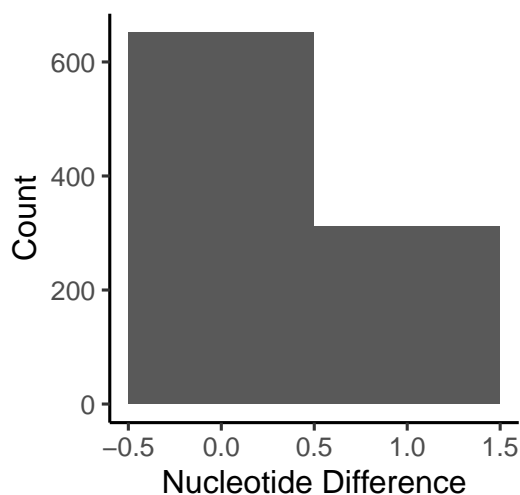
### TRBV29-1\*ap01

5879 sequences assigned  
5817 (98.9%) exact matches, in which:  
5619 unique CDR3  
13 unique J



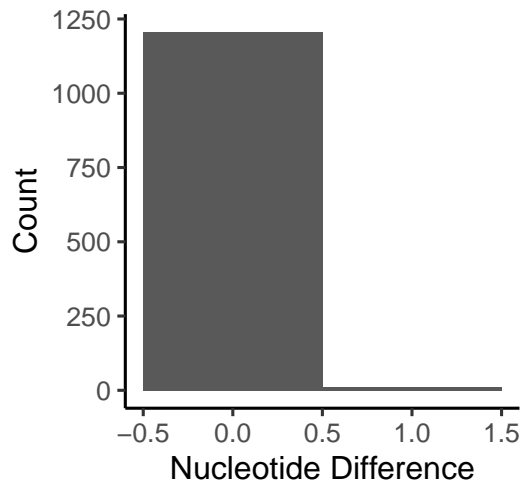
### TRBV7-8\*ap03

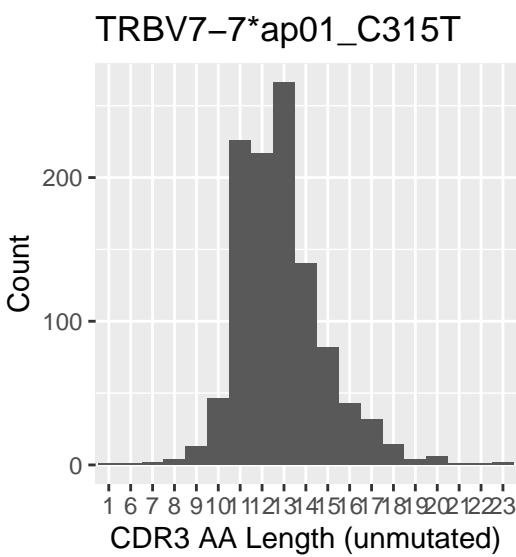
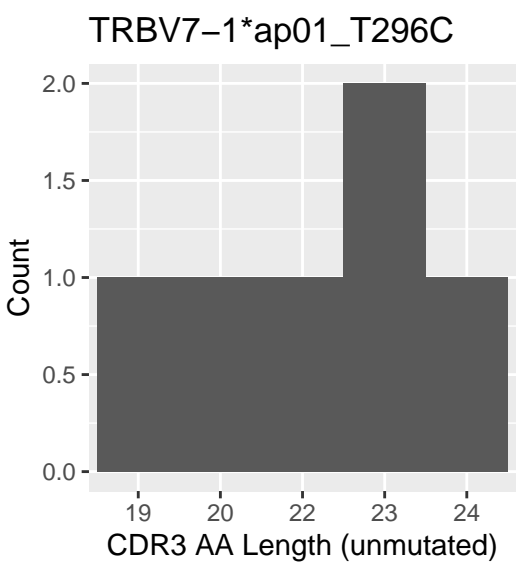
964 sequences assigned  
652 (67.6%) exact matches, in which:  
645 unique CDR3  
13 unique J



### TRBV29-1\*ap02

1218 sequences assigned  
1206 (99%) exact matches, in which:  
1157 unique CDR3  
13 unique J







[illegible]