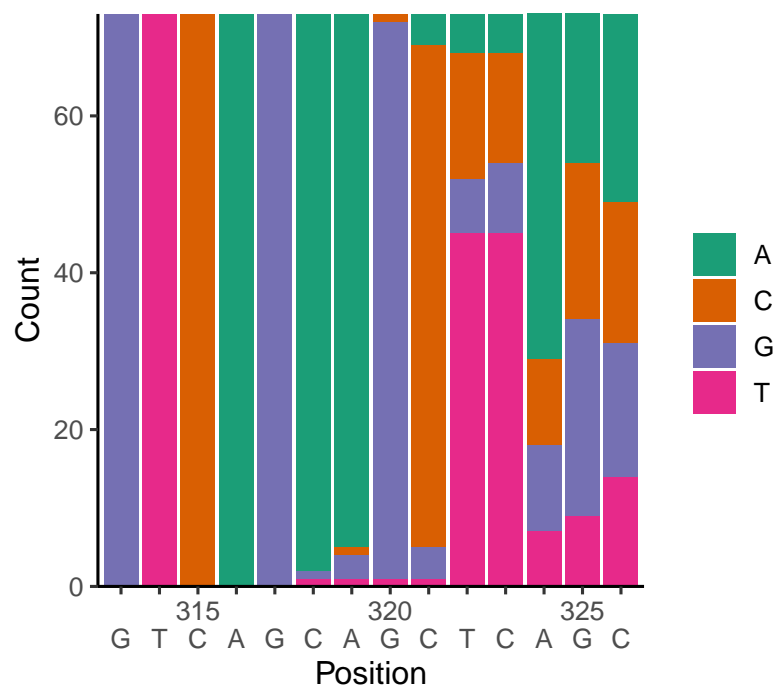
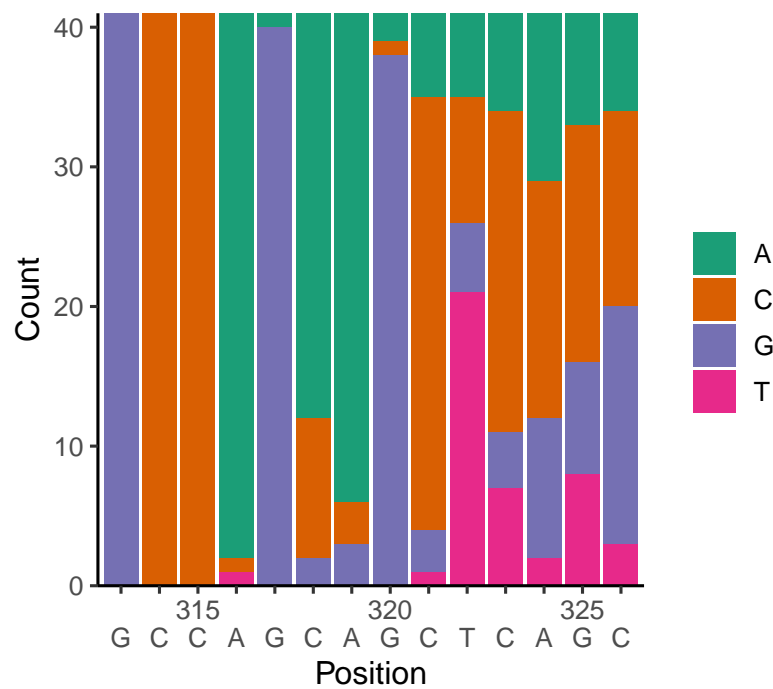


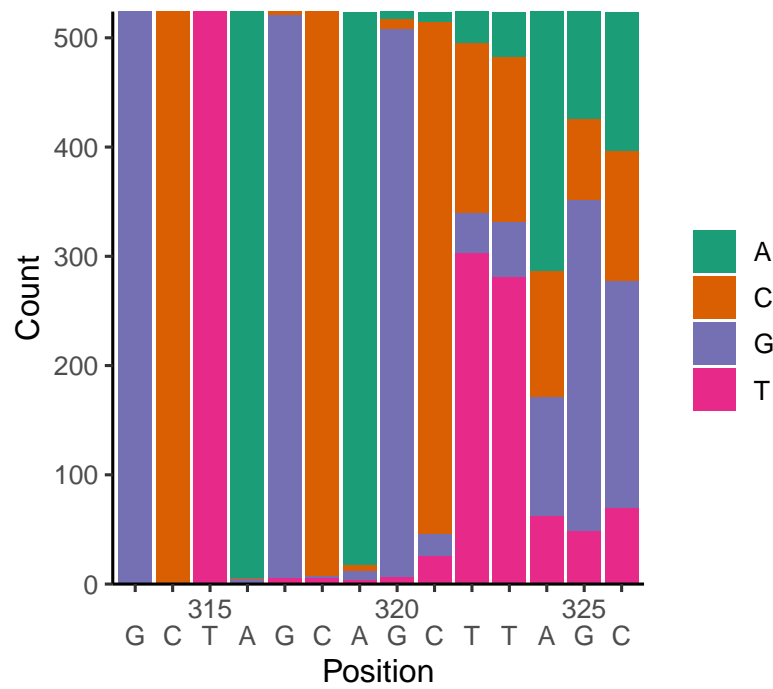
Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C



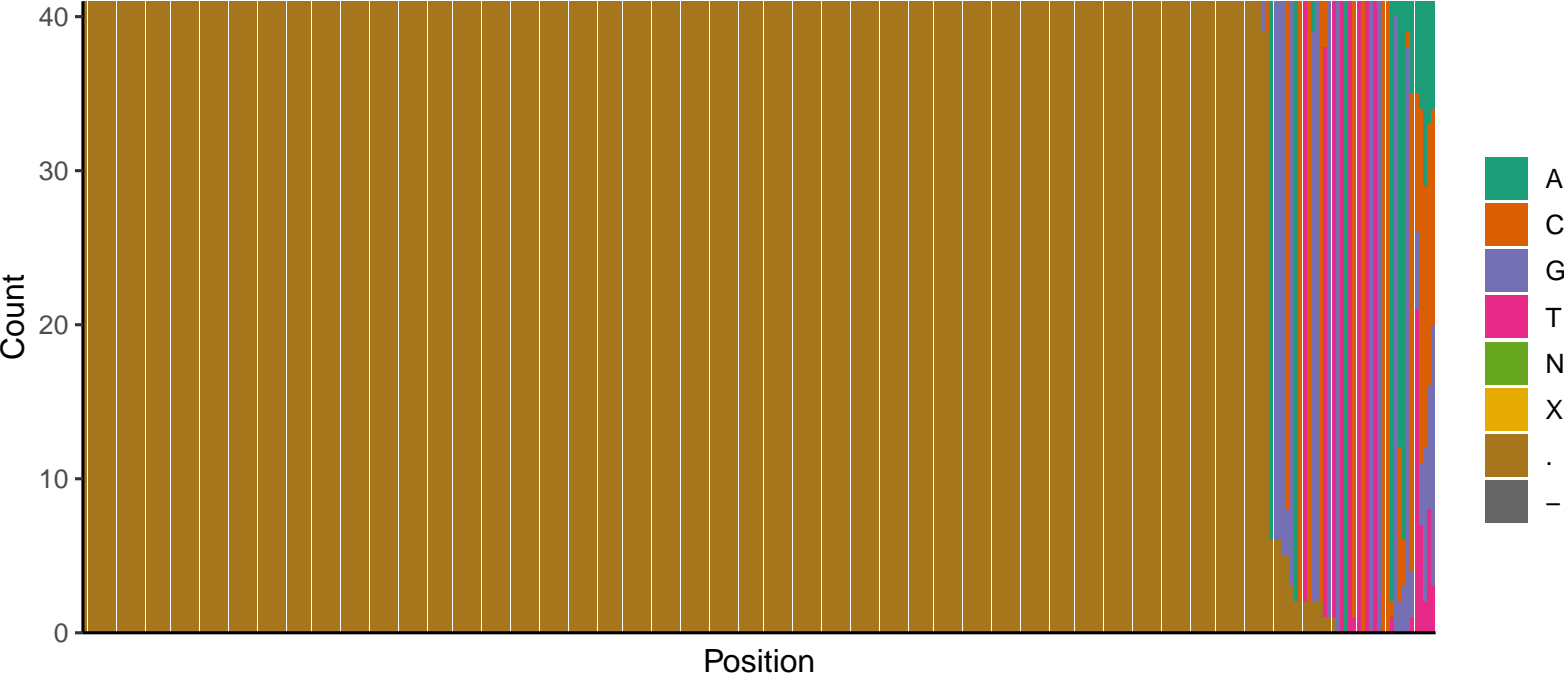
Gene TRBV7-7\*ap01\_C315T



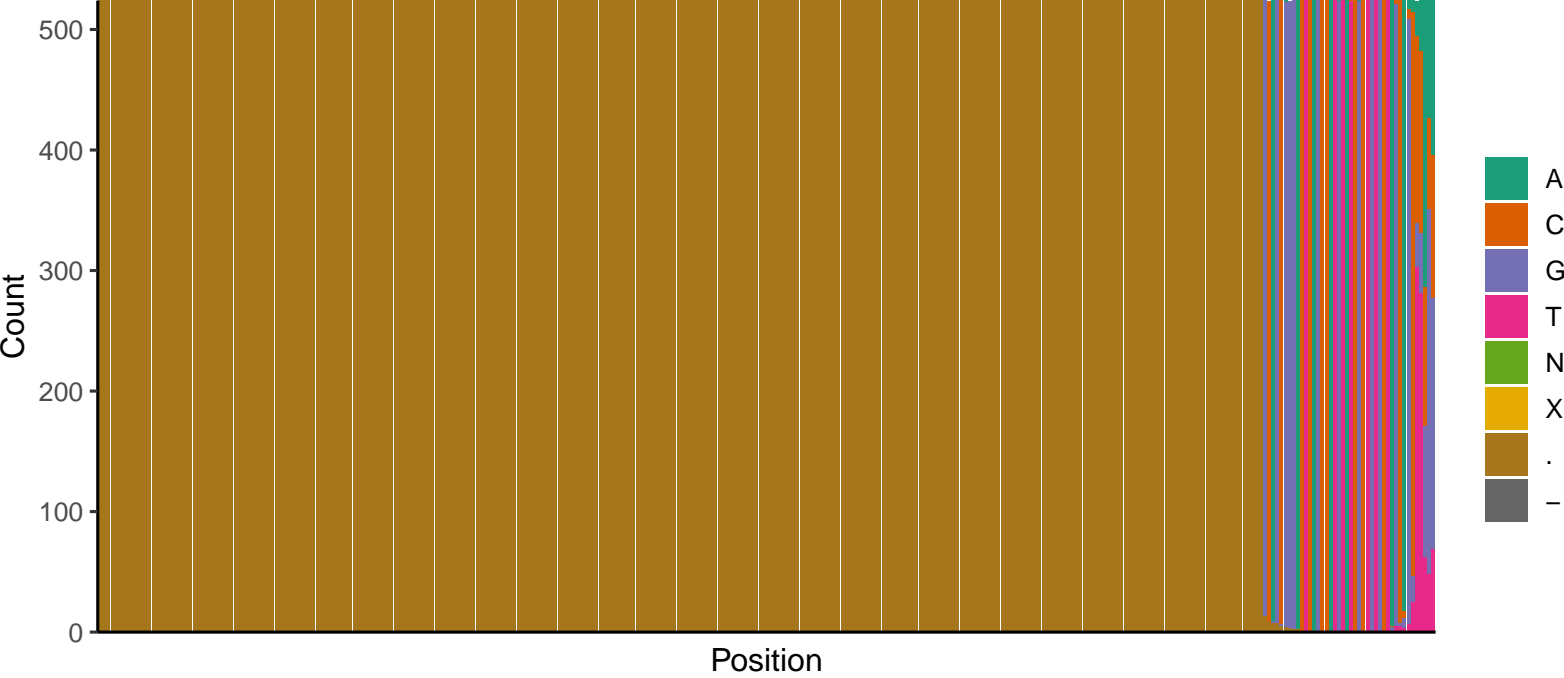
Gene TRBV7-1\*ap01\_T296C\_C314T



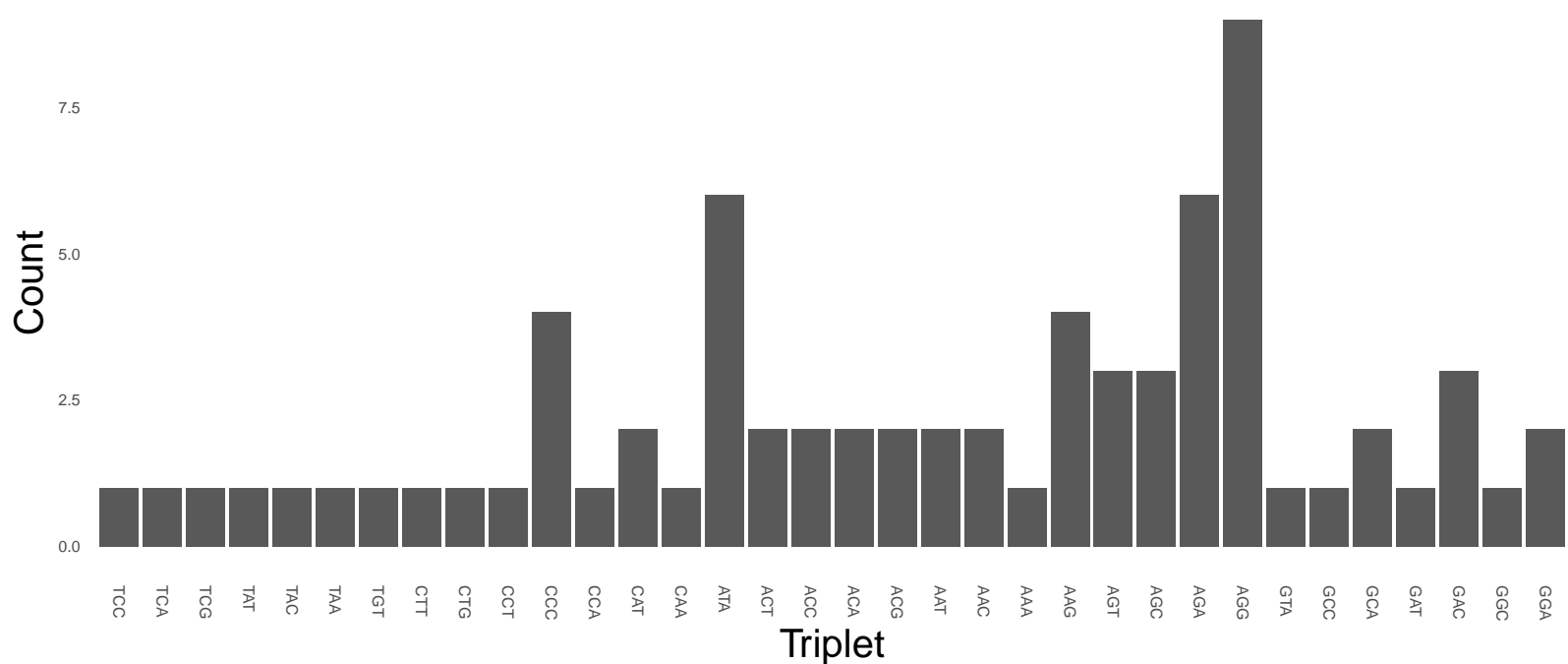
Gene TRBV7-1\*ap01\_T296C



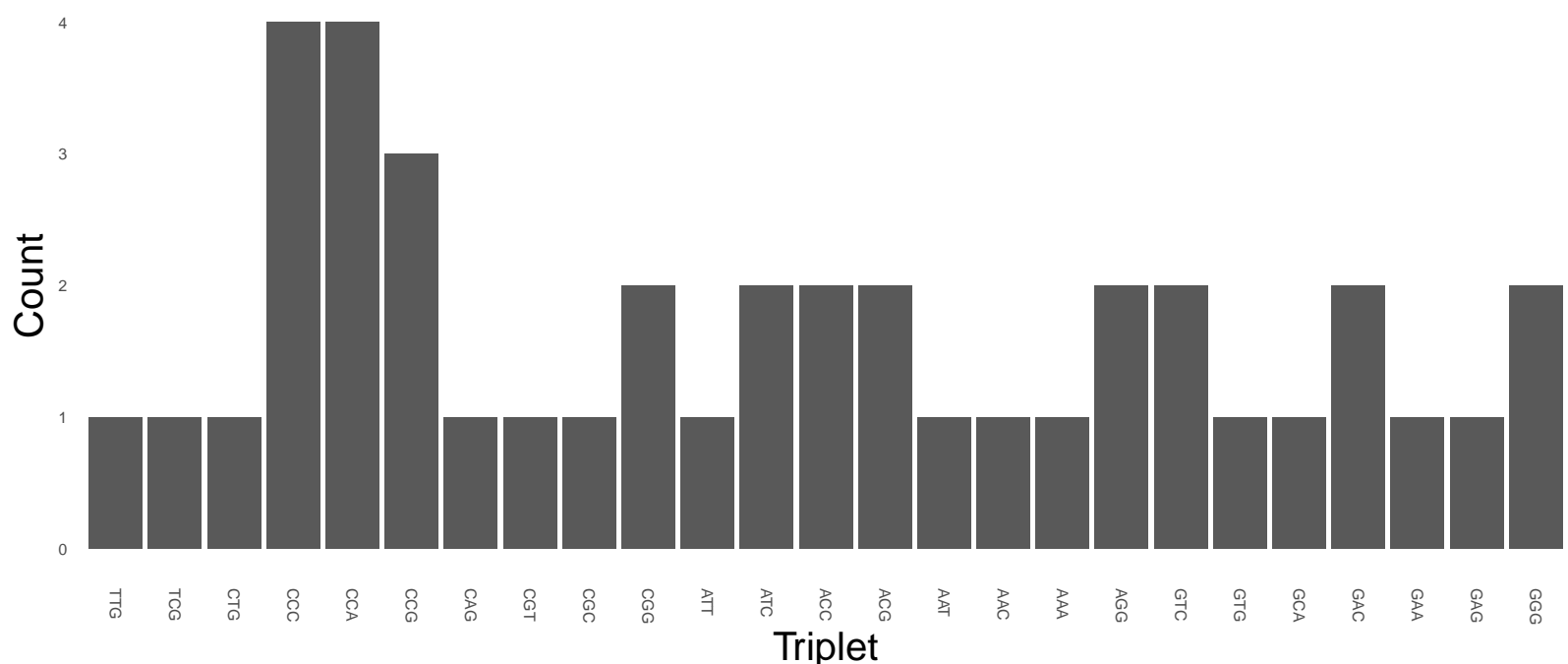
Gene TRBV7-7\*ap01\_C315T



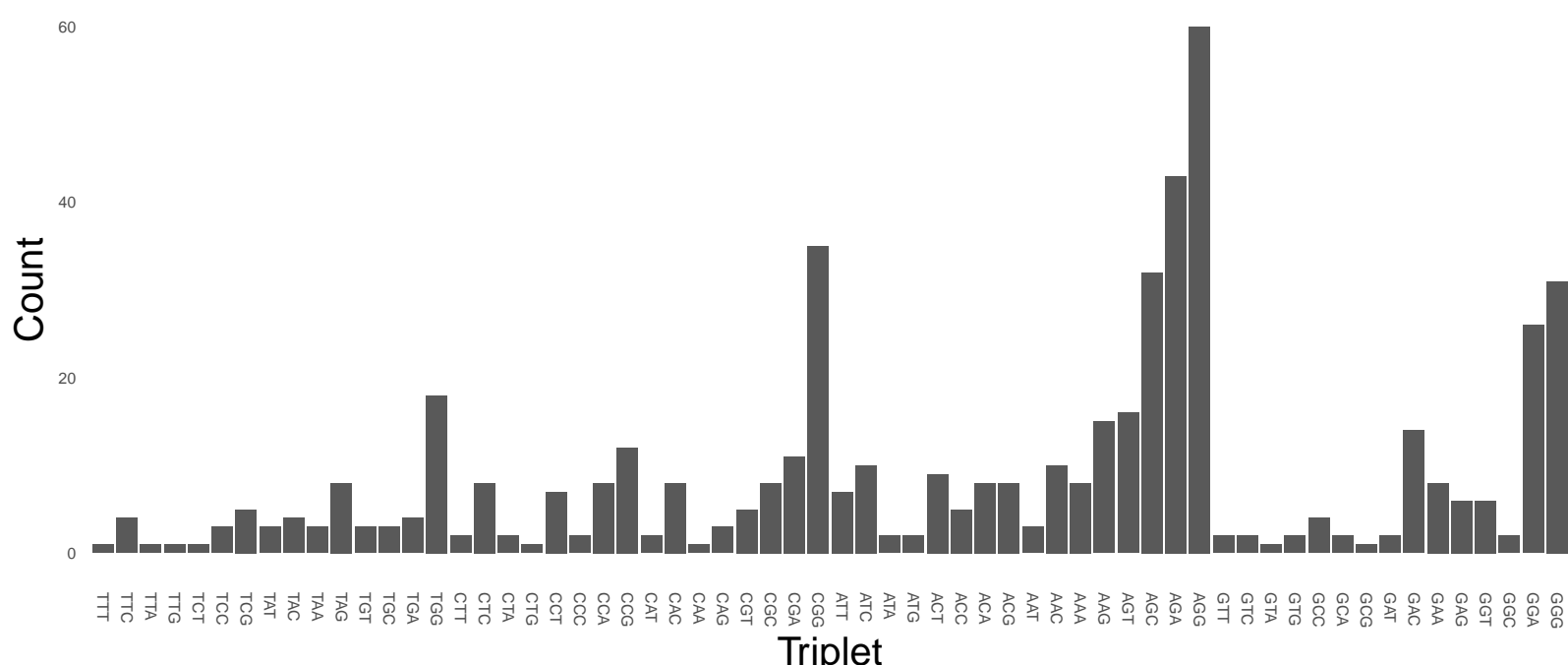
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

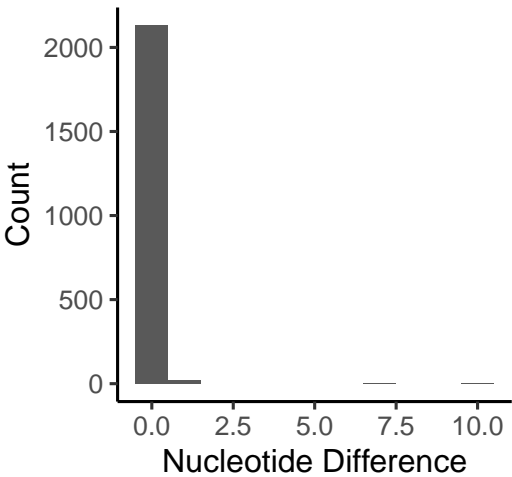


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



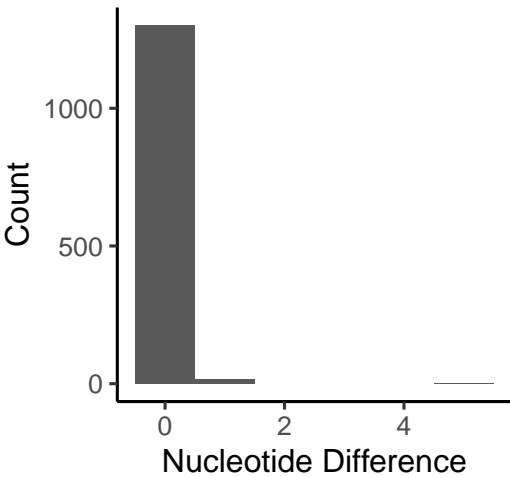
TRBV10-1\*ap01

2154 sequences assigned  
2131 (98.9%) exact matches, in which:  
2099 unique CDR3  
14 unique J



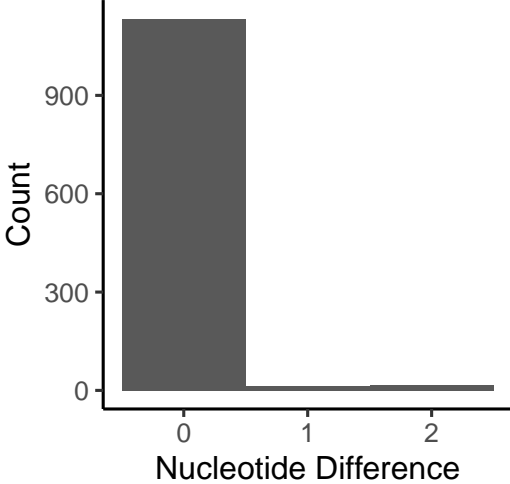
TRBV10-2\*ap01

1320 sequences assigned  
1301 (98.6%) exact matches, in which:  
1280 unique CDR3  
14 unique J



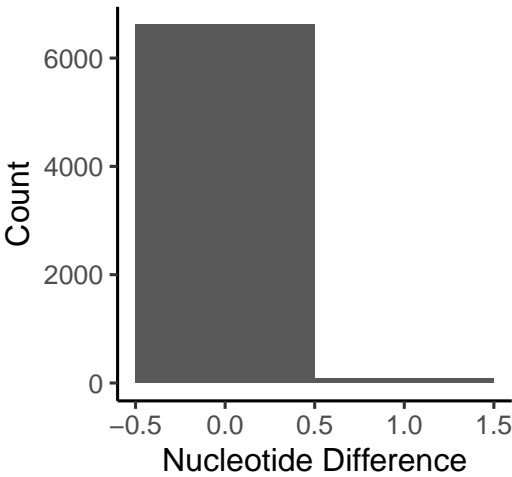
TRBV13\*ap01

1165 sequences assigned  
1134 (97.3%) exact matches, in which:  
1112 unique CDR3  
14 unique J



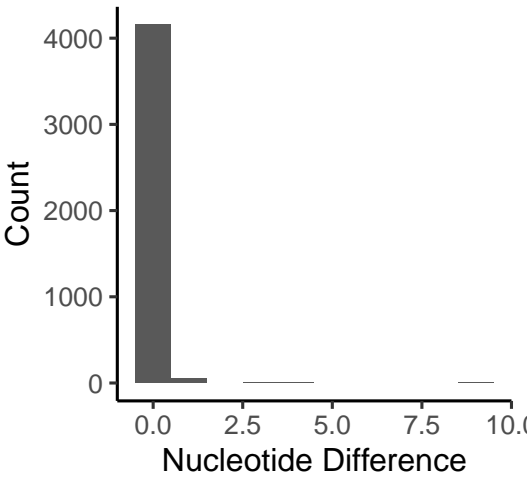
TRBV20-1\*ap01

6694 sequences assigned  
6616 (98.8%) exact matches, in which:  
6548 unique CDR3  
14 unique J



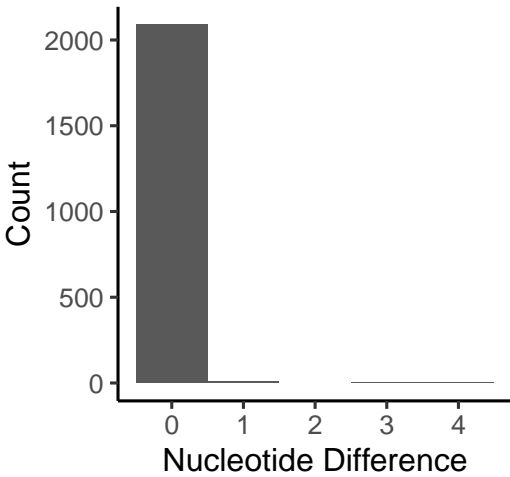
TRBV10-3\*ap01

4213 sequences assigned  
4156 (98.6%) exact matches, in which:  
4101 unique CDR3  
14 unique J



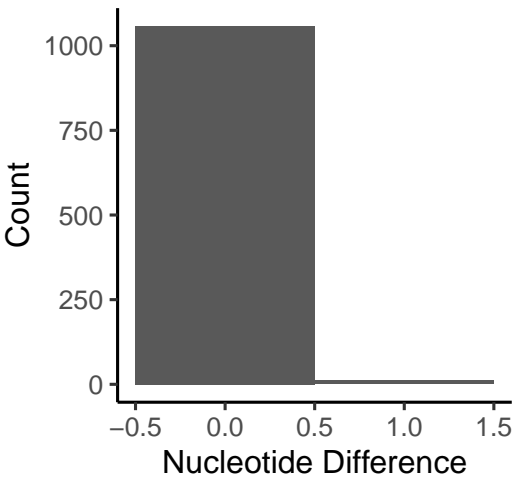
TRBV14\*ap01

2102 sequences assigned  
2089 (99.4%) exact matches, in which:  
2067 unique CDR3  
14 unique J



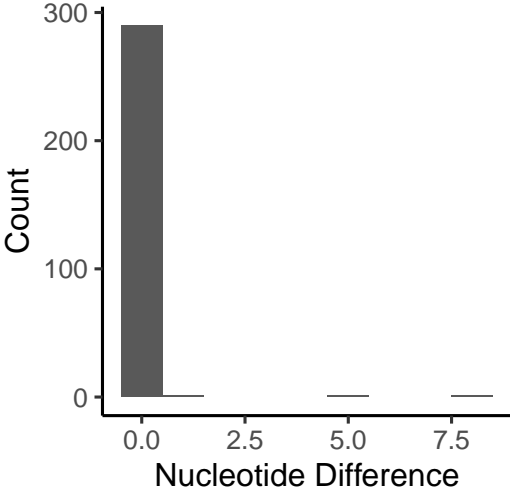
TRBV20-1\*ap02

1069 sequences assigned  
1058 (99%) exact matches, in which:  
1050 unique CDR3  
14 unique J



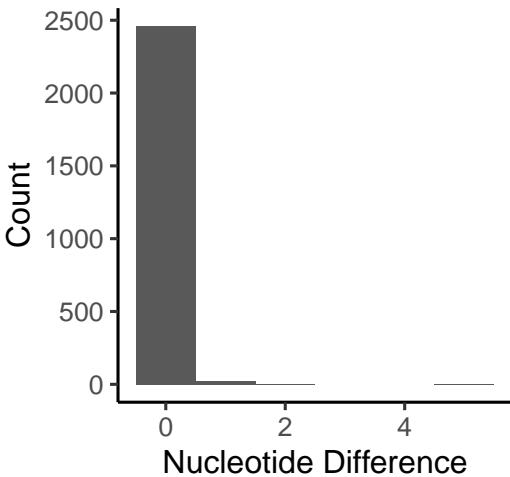
TRBV1\*ap01

293 sequences assigned  
290 (99%) exact matches, in which:  
287 unique CDR3  
14 unique J



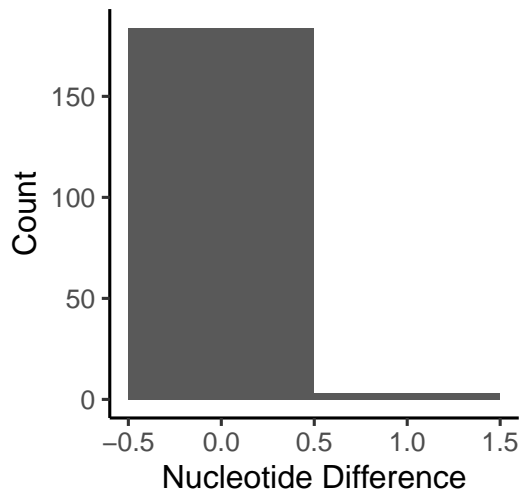
TRBV15\*ap02

2484 sequences assigned  
2460 (99%) exact matches, in which:  
2429 unique CDR3  
14 unique J



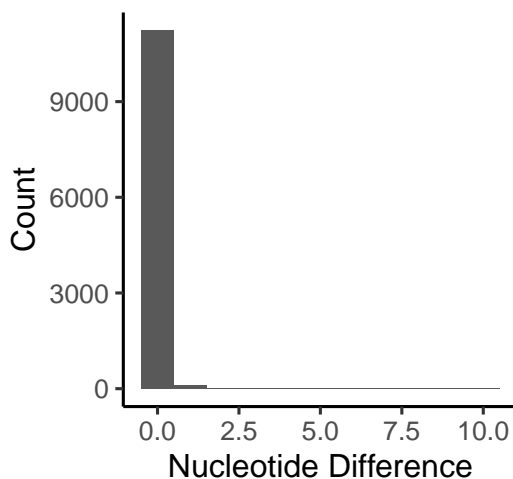
### TRBV16\*ap01

187 sequences assigned  
184 (98.4%) exact matches, in which:  
184 unique CDR3  
14 unique J



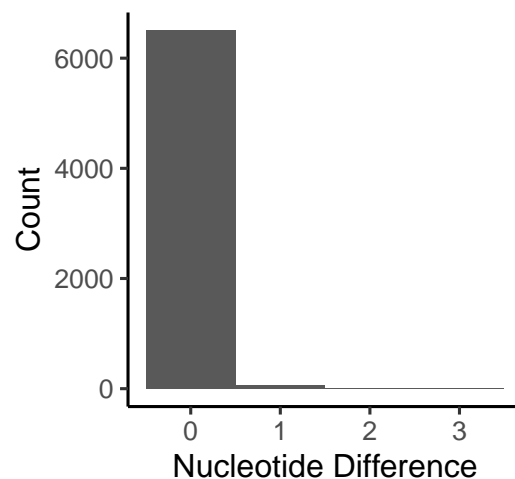
### TRBV19\*ap01

11370 sequences assigned  
11232 (98.8%) exact matches, in which:  
11150 unique CDR3  
14 unique J



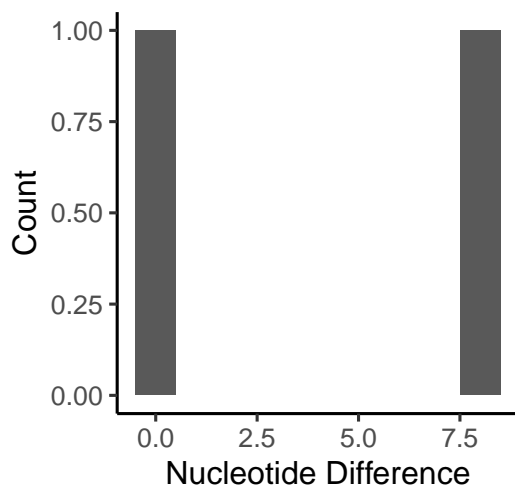
### TRBV28\*ap01

6580 sequences assigned  
6504 (98.8%) exact matches, in which:  
6425 unique CDR3  
14 unique J



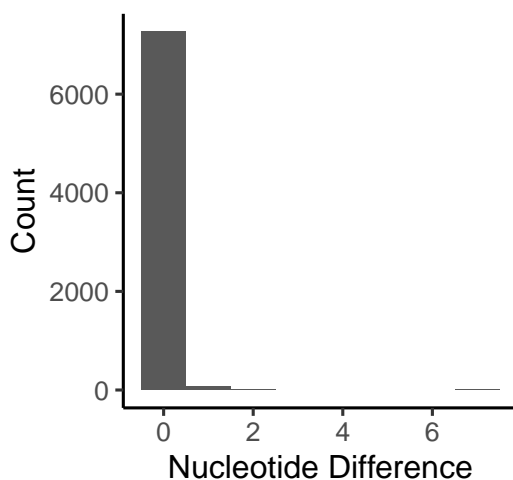
### TRBV17\*ap01

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



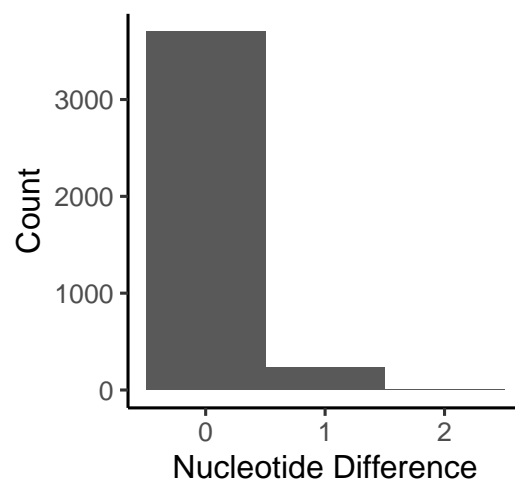
### TRBV2\*ap01

7349 sequences assigned  
7266 (98.9%) exact matches, in which:  
7180 unique CDR3  
14 unique J



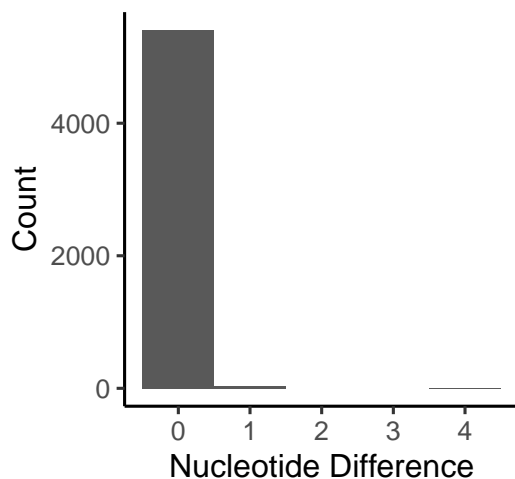
### TRBV30\*ap01

3938 sequences assigned  
3700 (94%) exact matches, in which:  
3643 unique CDR3  
13 unique J



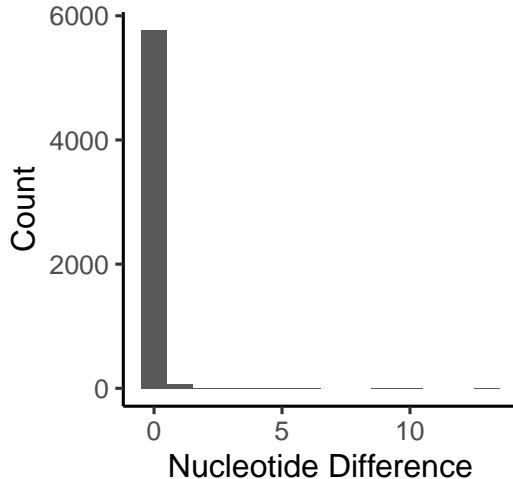
### TRBV18\*ap01

5440 sequences assigned  
5406 (99.4%) exact matches, in which:  
5360 unique CDR3  
14 unique J



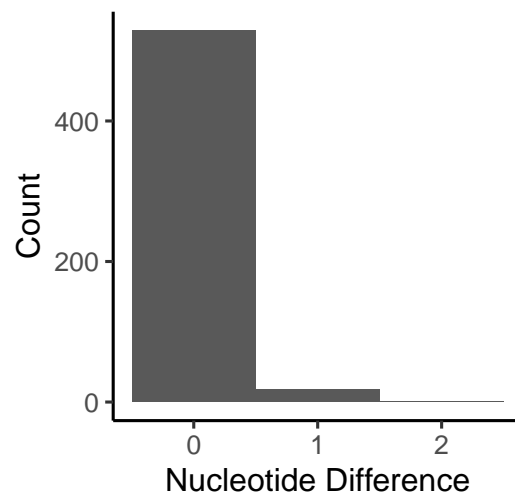
### TRBV27\*ap01

5858 sequences assigned  
5770 (98.5%) exact matches, in which:  
5697 unique CDR3  
14 unique J



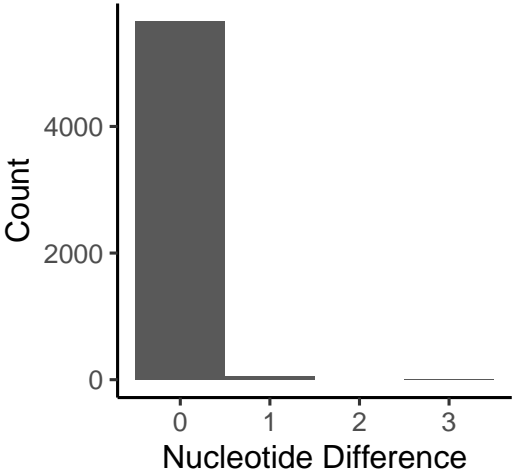
### TRBV30\*ap03

548 sequences assigned  
529 (96.5%) exact matches, in which:  
521 unique CDR3  
13 unique J



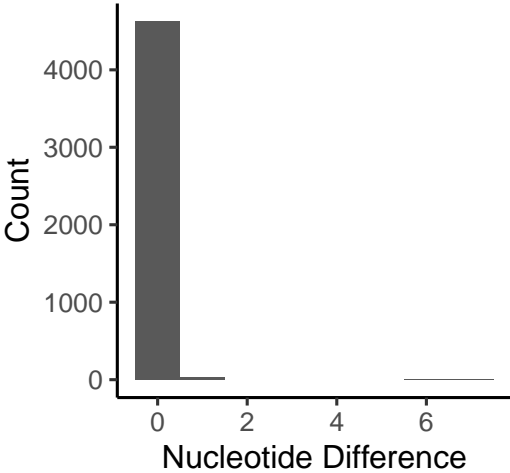
TRBV9\*ap01

5715 sequences assigned  
5659 (99%) exact matches, in which:  
5612 unique CDR3  
14 unique J



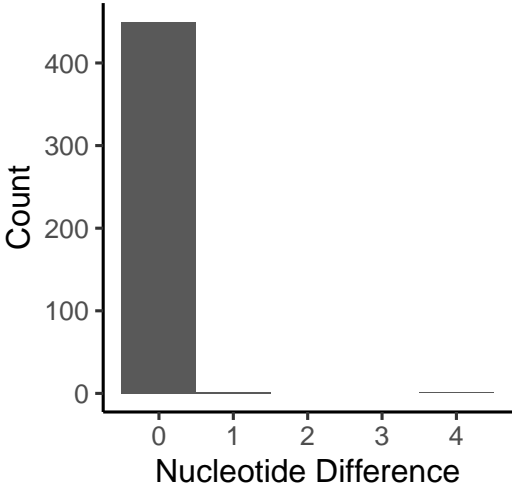
TRBV11-2\*ap01

4660 sequences assigned  
4625 (99.2%) exact matches, in which:  
4595 unique CDR3  
14 unique J



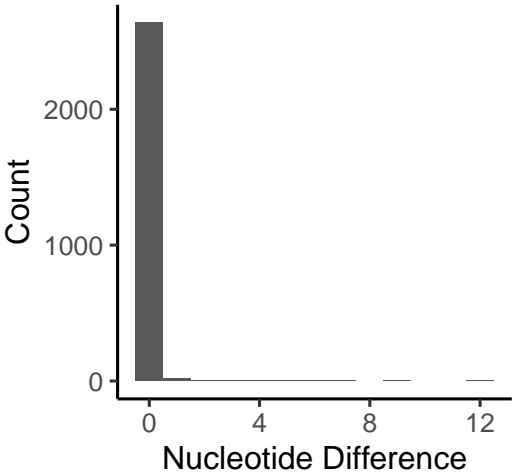
TRBV12-2\*ap01

453 sequences assigned  
450 (99.3%) exact matches, in which:  
439 unique CDR3  
14 unique J



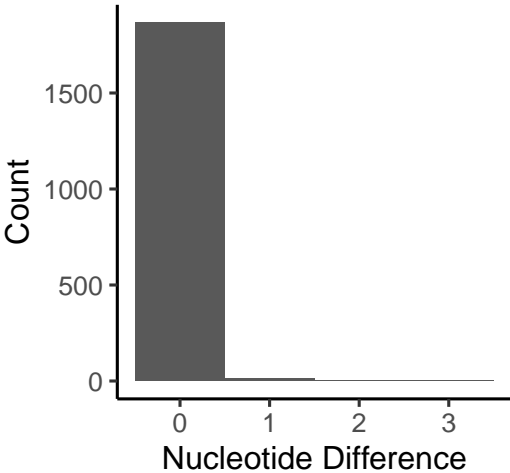
TRBV21-1\*ap01

2677 sequences assigned  
2637 (98.5%) exact matches, in which:  
2596 unique CDR3  
14 unique J



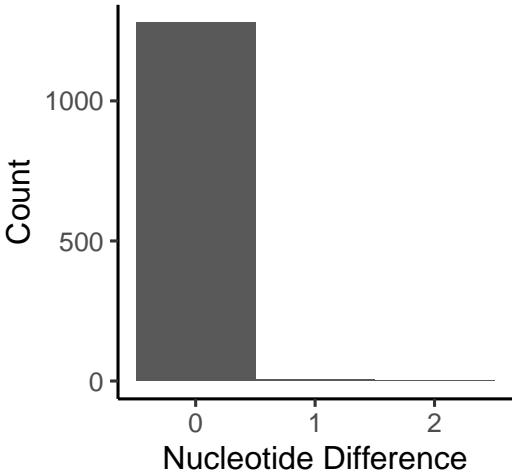
TRBV11-3\*ap01

1879 sequences assigned  
1866 (99.3%) exact matches, in which:  
1853 unique CDR3  
15 unique J



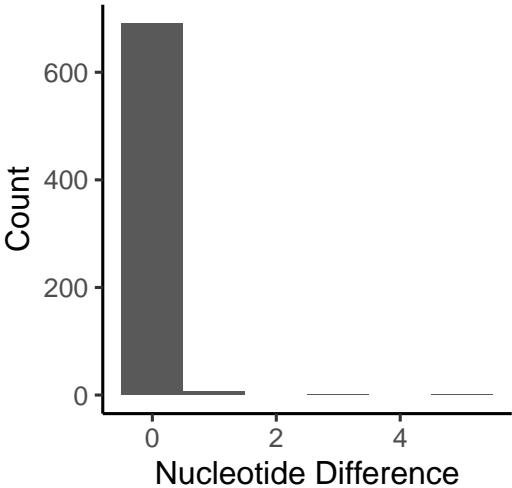
TRBV12-5\*ap01

1286 sequences assigned  
1279 (99.5%) exact matches, in which:  
1262 unique CDR3  
14 unique J



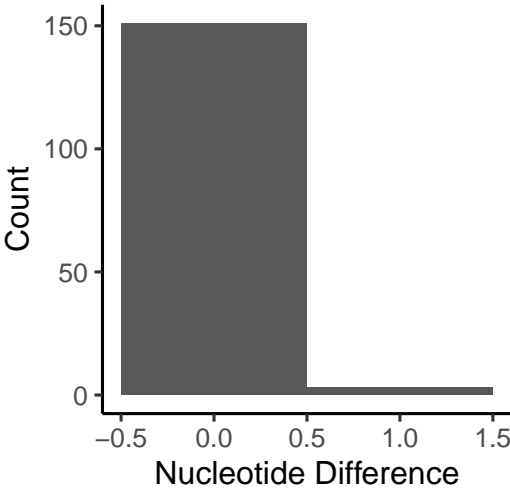
TRBV11-1\*ap01

699 sequences assigned  
691 (98.9%) exact matches, in which:  
688 unique CDR3  
14 unique J



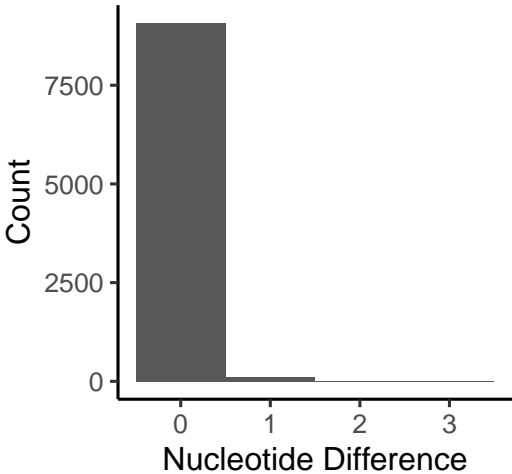
TRBV12-1\*ap01

154 sequences assigned  
151 (98.1%) exact matches, in which:  
149 unique CDR3  
14 unique J



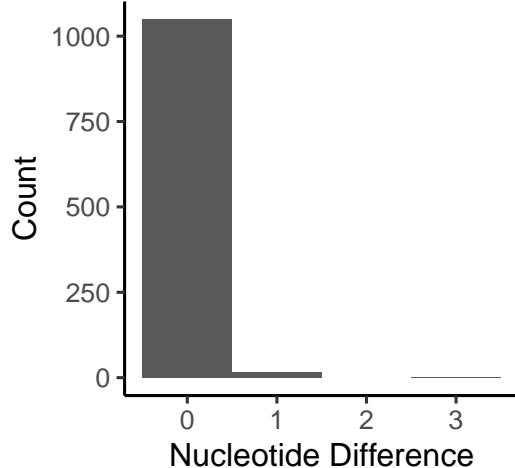
TRBV12-34\*ap01

9187 sequences assigned  
9075 (98.8%) exact matches, in which:  
8943 unique CDR3  
14 unique J



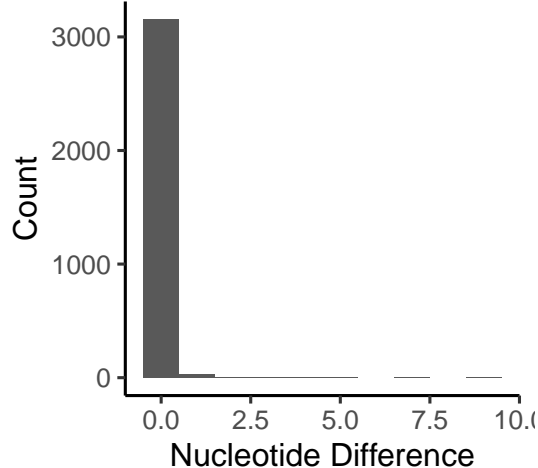
### TRBV23-1\*ap01

1067 sequences assigned  
1049 (98.3%) exact matches, in which:  
1031 unique CDR3  
14 unique J



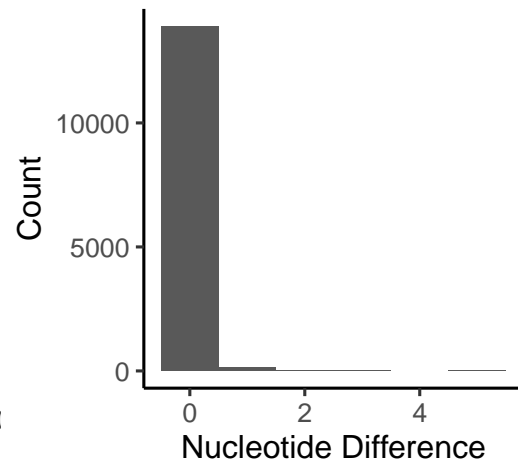
### TRBV24-1\*ap01

3194 sequences assigned  
3154 (98.7%) exact matches, in which:  
3110 unique CDR3  
14 unique J



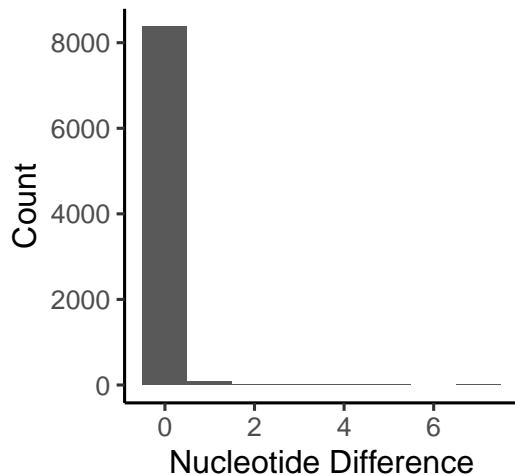
### TRBV5-1\*ap01

14056 sequences assigned  
13903 (98.9%) exact matches, in which:  
13692 unique CDR3  
14 unique J



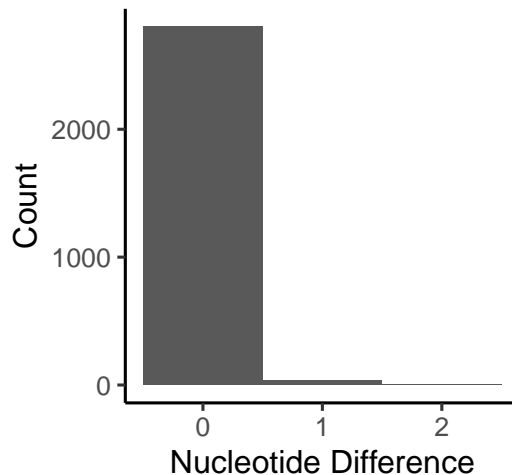
### TRBV3-12\*ap01

8462 sequences assigned  
8373 (98.9%) exact matches, in which:  
8306 unique CDR3  
14 unique J



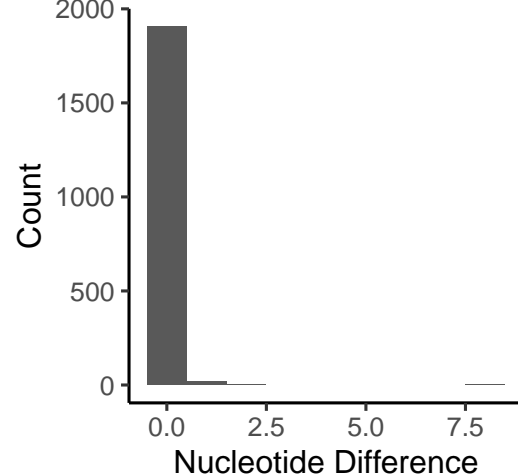
### TRBV4-2\*ap01

2841 sequences assigned  
2802 (98.6%) exact matches, in which:  
2764 unique CDR3  
14 unique J



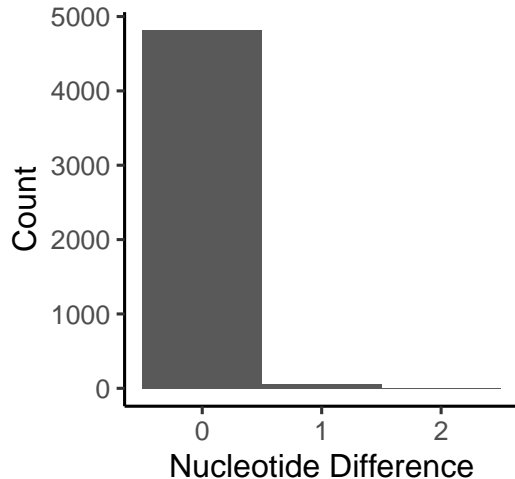
### TRBV25-1\*ap01

1929 sequences assigned  
1905 (98.8%) exact matches, in which:  
1865 unique CDR3  
14 unique J



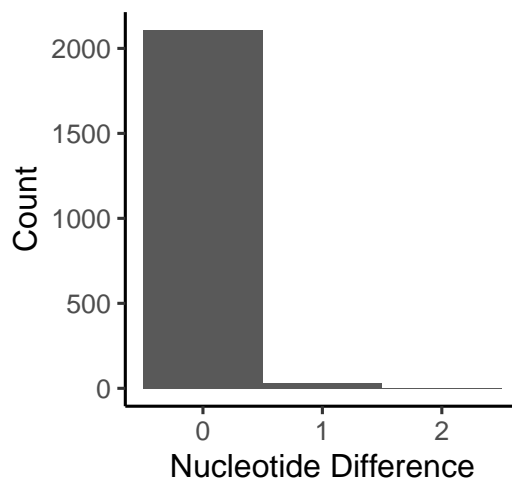
### TRBV4-1\*ap01

4875 sequences assigned  
4818 (98.8%) exact matches, in which:  
4758 unique CDR3  
14 unique J



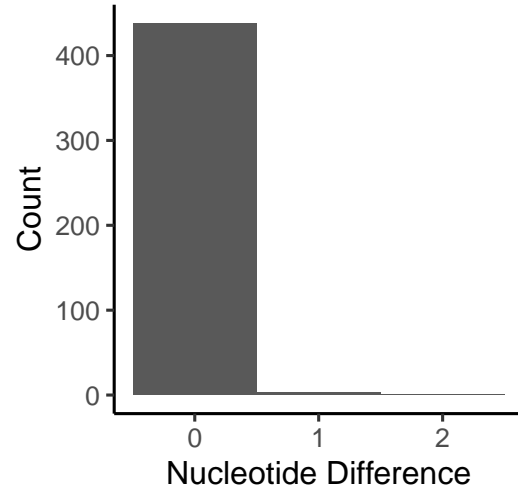
### TRBV4-3\*ap01

2141 sequences assigned  
2108 (98.5%) exact matches, in which:  
2059 unique CDR3  
14 unique J



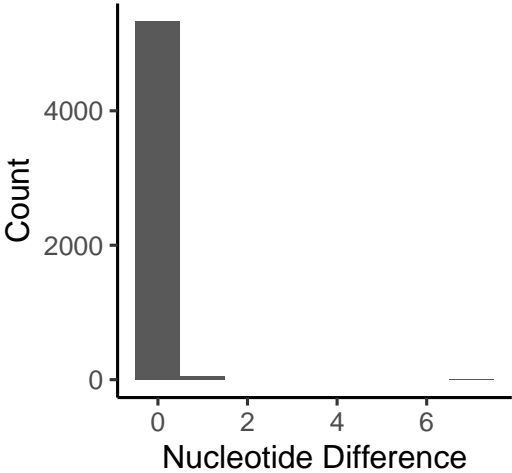
### TRBV5-3\*ap01

442 sequences assigned  
438 (99.1%) exact matches, in which:  
425 unique CDR3  
14 unique J



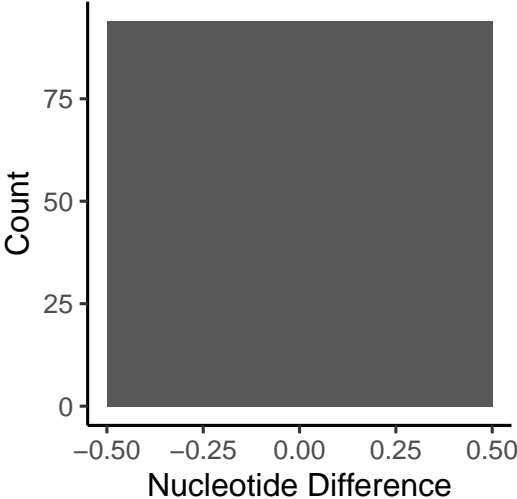
TRBV5-4\*ap01

5386 sequences assigned  
5330 (99%) exact matches, in which:  
5263 unique CDR3  
14 unique J



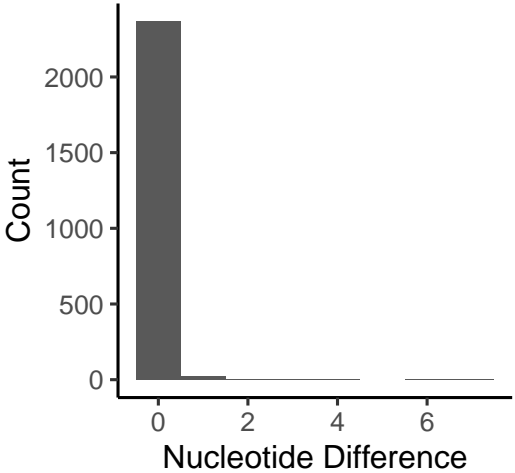
TRBV5-7\*ap01

94 sequences assigned  
94 (100%) exact matches, in which:  
92 unique CDR3  
14 unique J



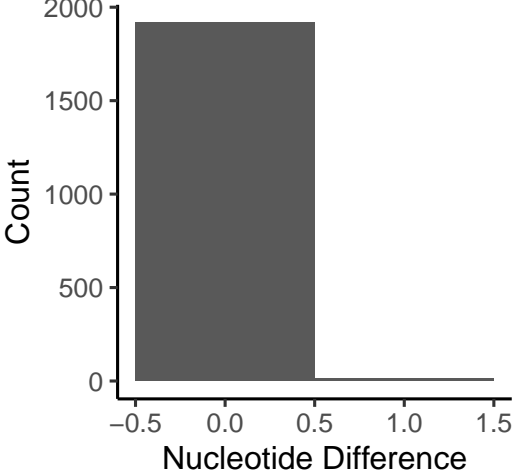
TRBV6-4\*ap01

2403 sequences assigned  
2367 (98.5%) exact matches, in which:  
2332 unique CDR3  
14 unique J



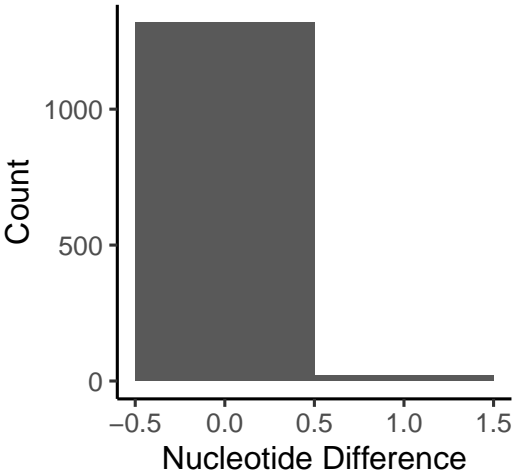
TRBV5-5\*ap01

1928 sequences assigned  
1917 (99.4%) exact matches, in which:  
1905 unique CDR3  
14 unique J



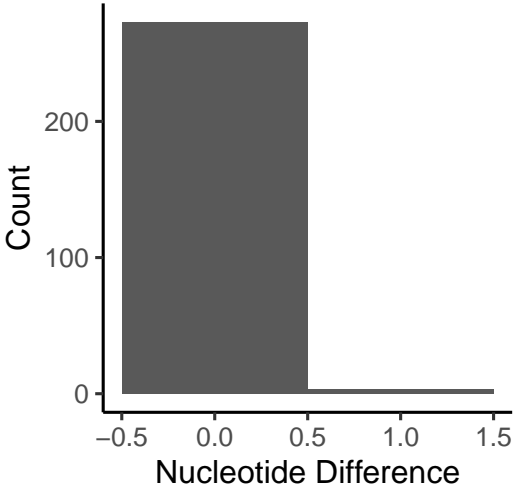
TRBV5-8\*ap01

1338 sequences assigned  
1318 (98.5%) exact matches, in which:  
1302 unique CDR3  
14 unique J



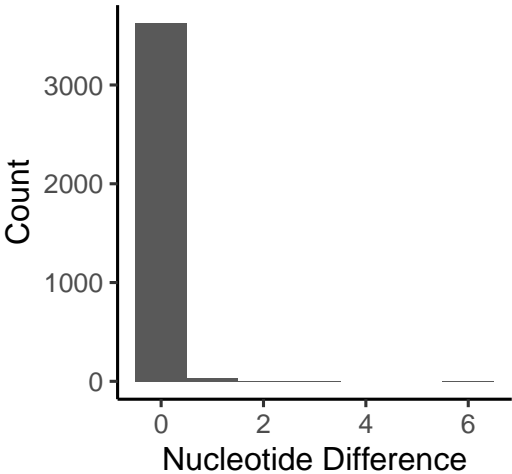
TRBV6-7\*ap01

276 sequences assigned  
273 (98.9%) exact matches, in which:  
266 unique CDR3  
14 unique J



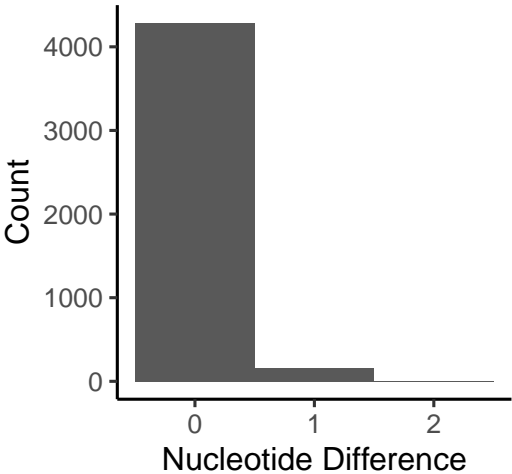
TRBV5-6\*ap01

3663 sequences assigned  
3627 (99%) exact matches, in which:  
3564 unique CDR3  
14 unique J



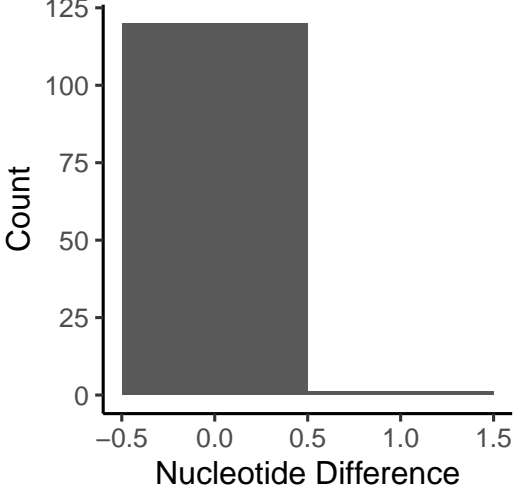
TRBV6-1\*ap01

4445 sequences assigned  
4284 (96.4%) exact matches, in which:  
4204 unique CDR3  
14 unique J



TRBV6-8\*ap01

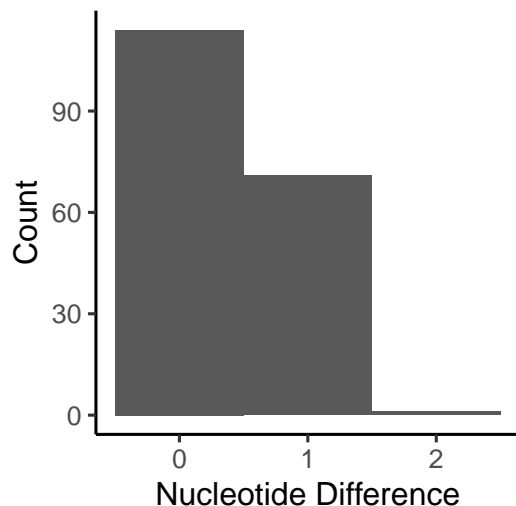
121 sequences assigned  
120 (99.2%) exact matches, in which:  
116 unique CDR3  
14 unique J





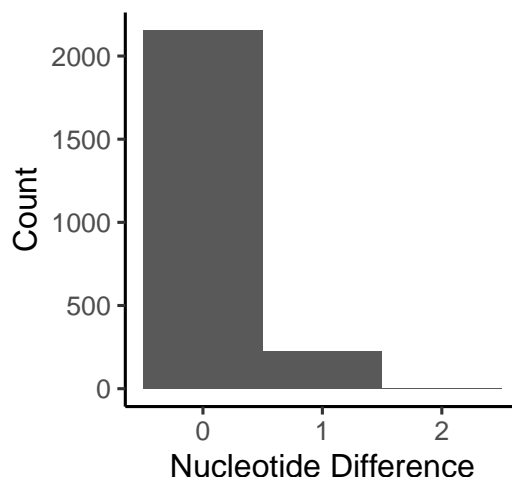
### TRBV6-9\*ap01

186 sequences assigned  
114 (61.3%) exact matches, in which:  
112 unique CDR3  
14 unique J



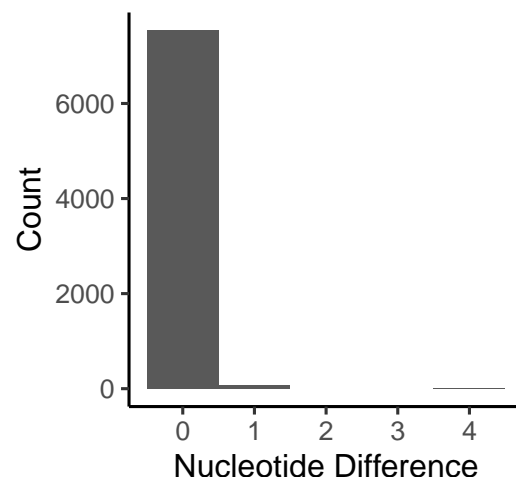
### TRBV6-56\*ap02

2379 sequences assigned  
2154 (90.5%) exact matches, in which:  
2119 unique CDR3  
14 unique J



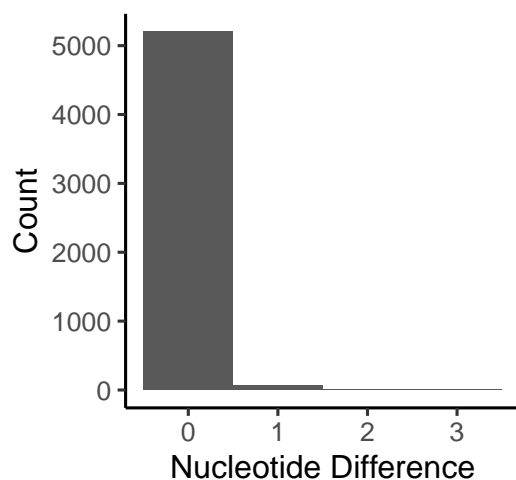
### TRBV7-2\*ap01

7610 sequences assigned  
7537 (99%) exact matches, in which:  
7436 unique CDR3  
14 unique J



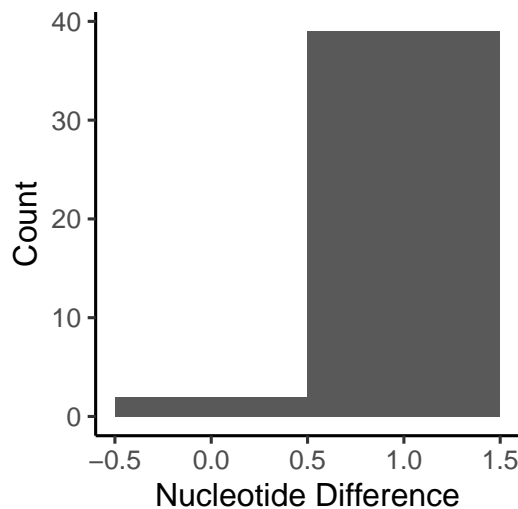
### TRBV6-23\*ap01

5272 sequences assigned  
5202 (98.7%) exact matches, in which:  
5111 unique CDR3  
14 unique J



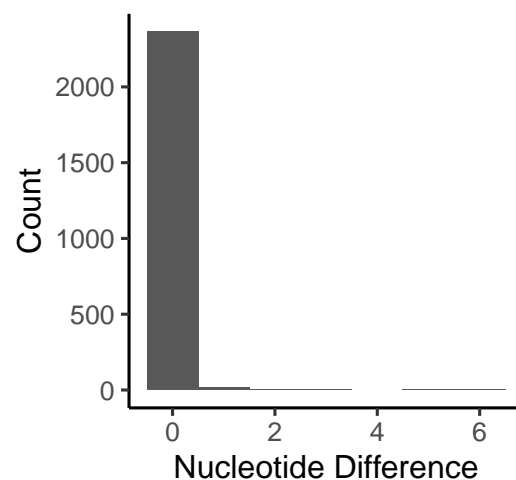
### TRBV7-1\*ap01\_T296C

41 sequences assigned  
2 (4.9%) exact matches, in which:  
2 unique CDR3  
2 unique J



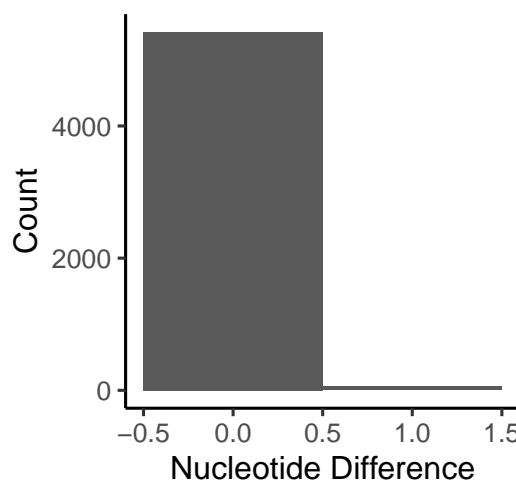
### TRBV7-3\*ap01

2387 sequences assigned  
2364 (99%) exact matches, in which:  
2339 unique CDR3  
13 unique J



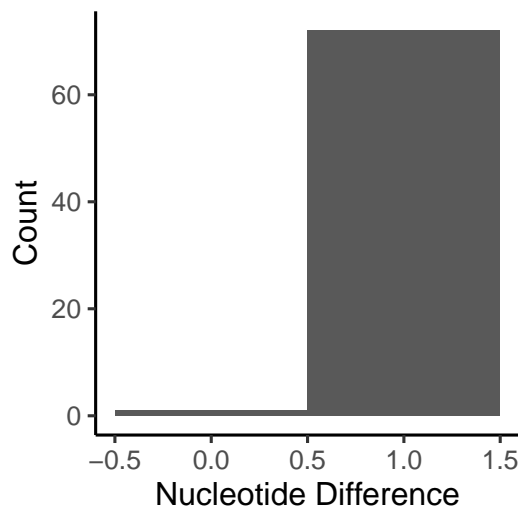
### TRBV6-56\*ap01

5481 sequences assigned  
5421 (98.9%) exact matches, in which:  
5346 unique CDR3  
14 unique J



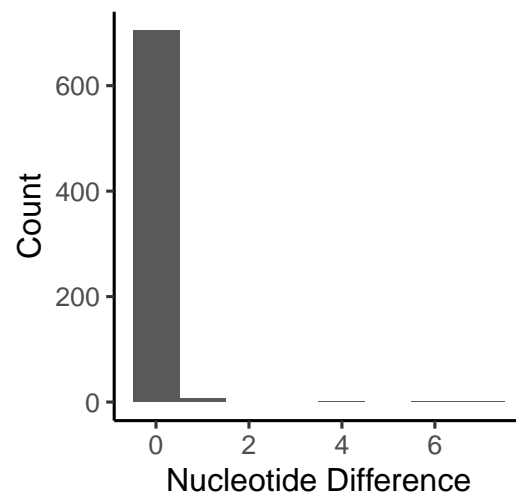
### TRBV7-1\*ap01\_T296C\_C

73 sequences assigned  
1 (1.4%) exact matches, in which:  
1 unique CDR3  
1 unique J



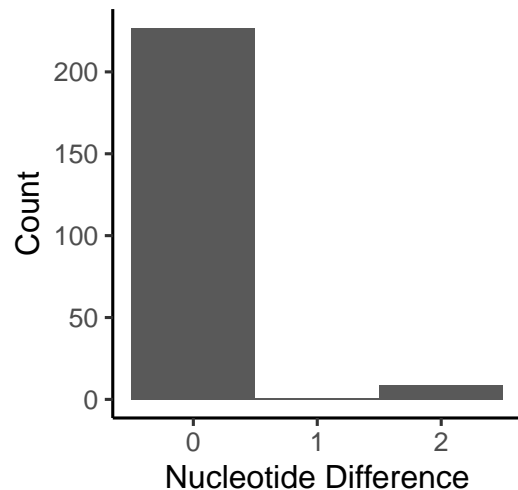
### TRBV7-3\*ap03

714 sequences assigned  
705 (98.7%) exact matches, in which:  
695 unique CDR3  
13 unique J



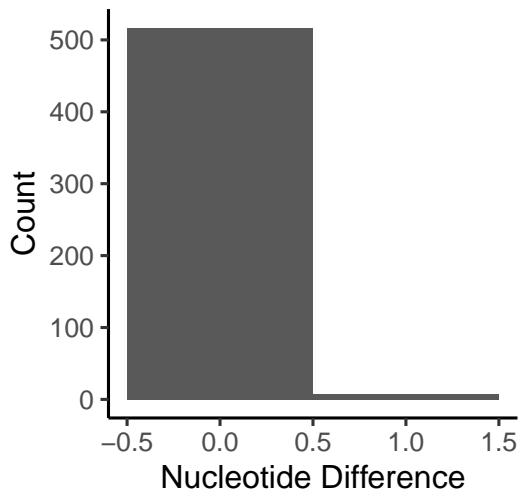
### TRBV7-4\*ap01

237 sequences assigned  
227 (95.8%) exact matches, in which:  
222 unique CDR3  
14 unique J



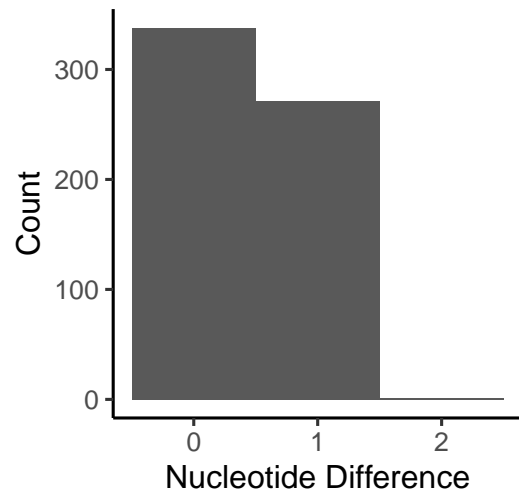
### TRBV7-7\*ap01\_C315T

524 sequences assigned  
517 (98.7%) exact matches, in which:  
512 unique CDR3  
13 unique J



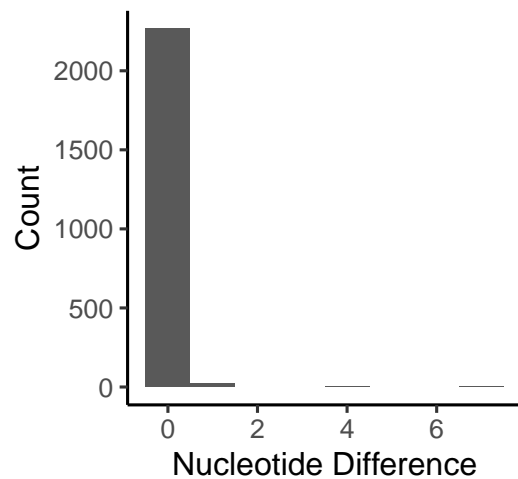
### TRBV7-8\*ap03

610 sequences assigned  
338 (55.4%) exact matches, in which:  
337 unique CDR3  
14 unique J



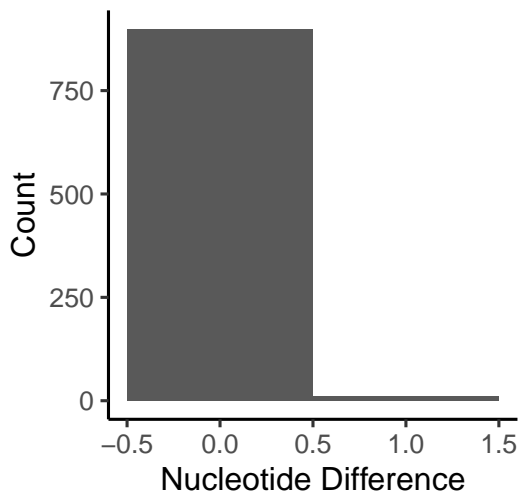
### TRBV7-6\*ap01

2288 sequences assigned  
2266 (99%) exact matches, in which:  
2245 unique CDR3  
14 unique J



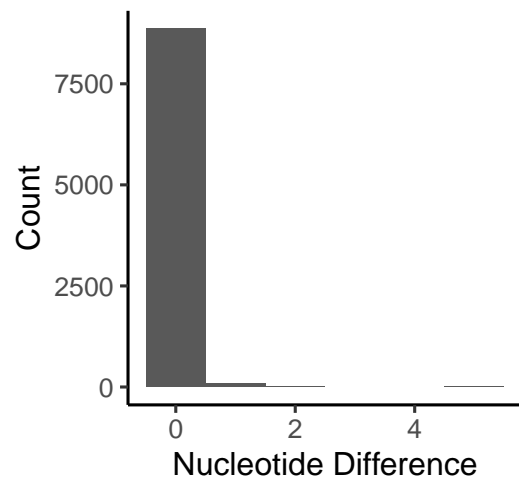
### TRBV7-8\*ap01

910 sequences assigned  
899 (98.8%) exact matches, in which:  
891 unique CDR3  
14 unique J



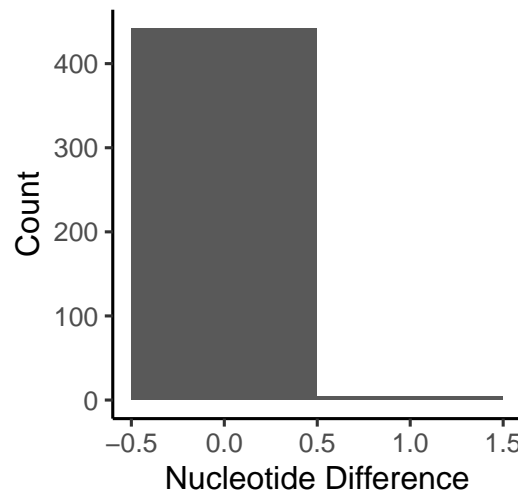
### TRBV7-9\*ap01

8942 sequences assigned  
8862 (99.1%) exact matches, in which:  
8756 unique CDR3  
14 unique J



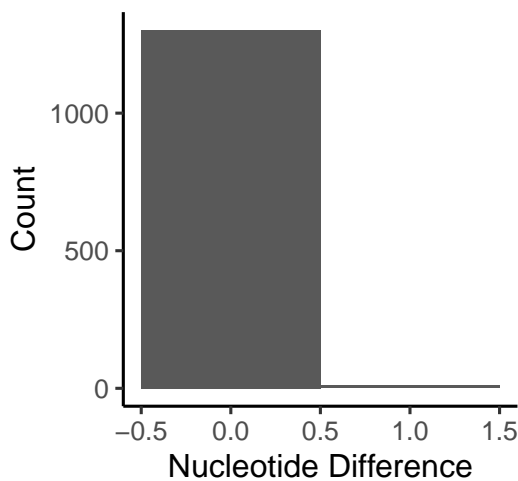
### TRBV7-7\*ap01

446 sequences assigned  
442 (99.1%) exact matches, in which:  
440 unique CDR3  
14 unique J



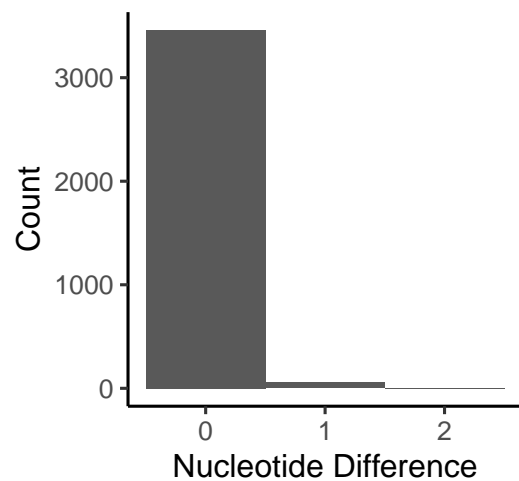
### TRBV7-8\*ap02

1312 sequences assigned  
1302 (99.2%) exact matches, in which:  
1286 unique CDR3  
14 unique J



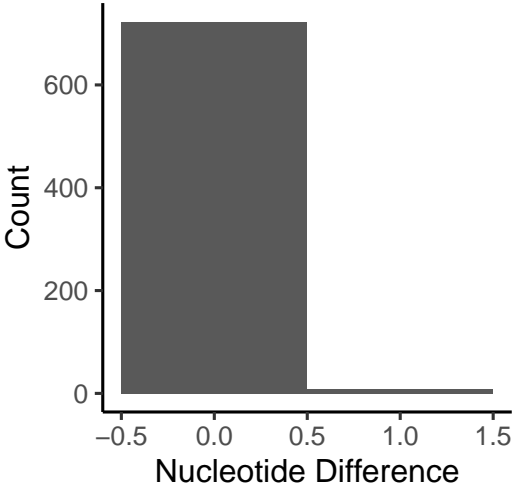
### TRBV29-1\*ap01

3517 sequences assigned  
3460 (98.4%) exact matches, in which:  
3414 unique CDR3  
14 unique J

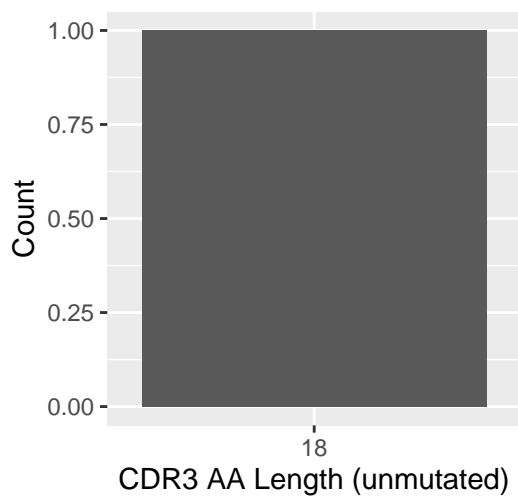


# TRBV29-1\*ap02

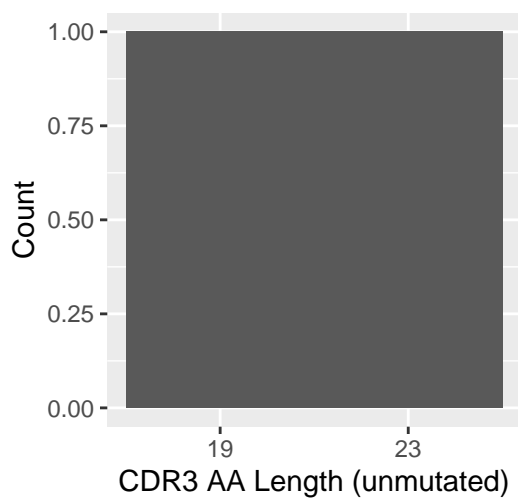
732 sequences assigned  
723 (98.8%) exact matches, in which:  
716 unique CDR3  
14 unique J



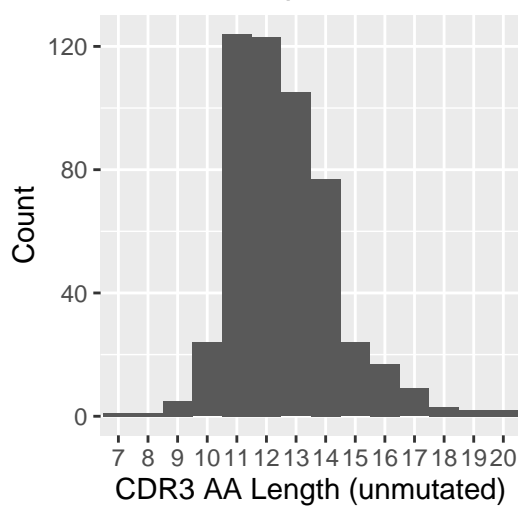
TRBV7-1\*ap01\_T296C\_C314T

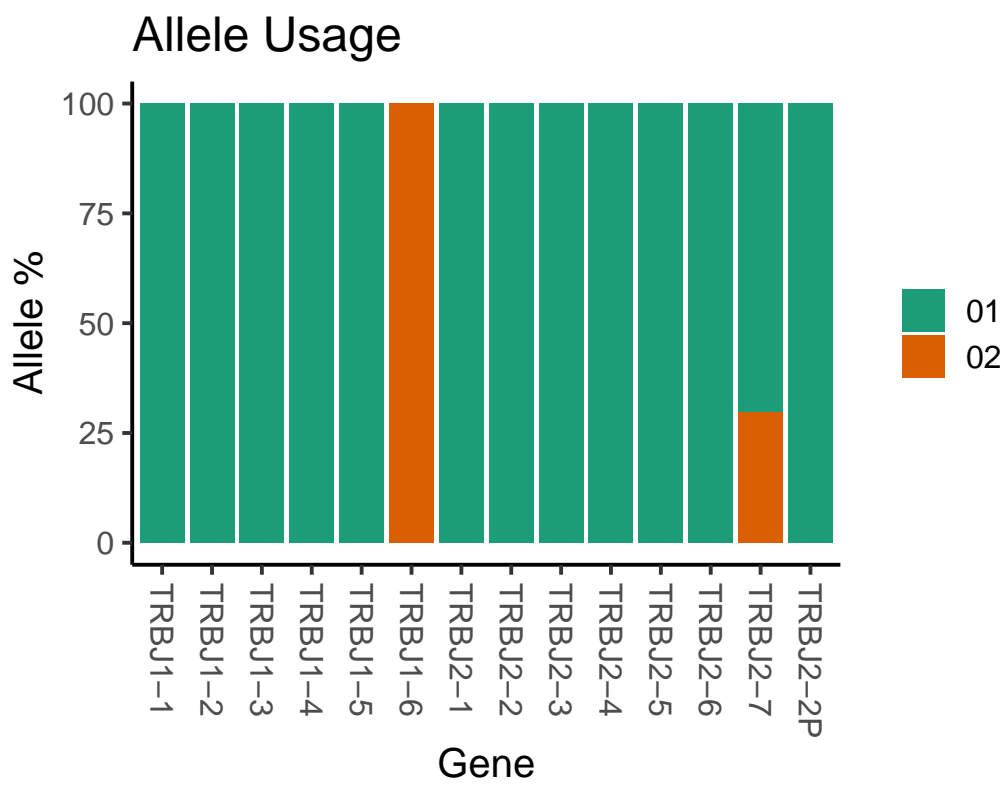


TRBV7-1\*ap01\_T296C

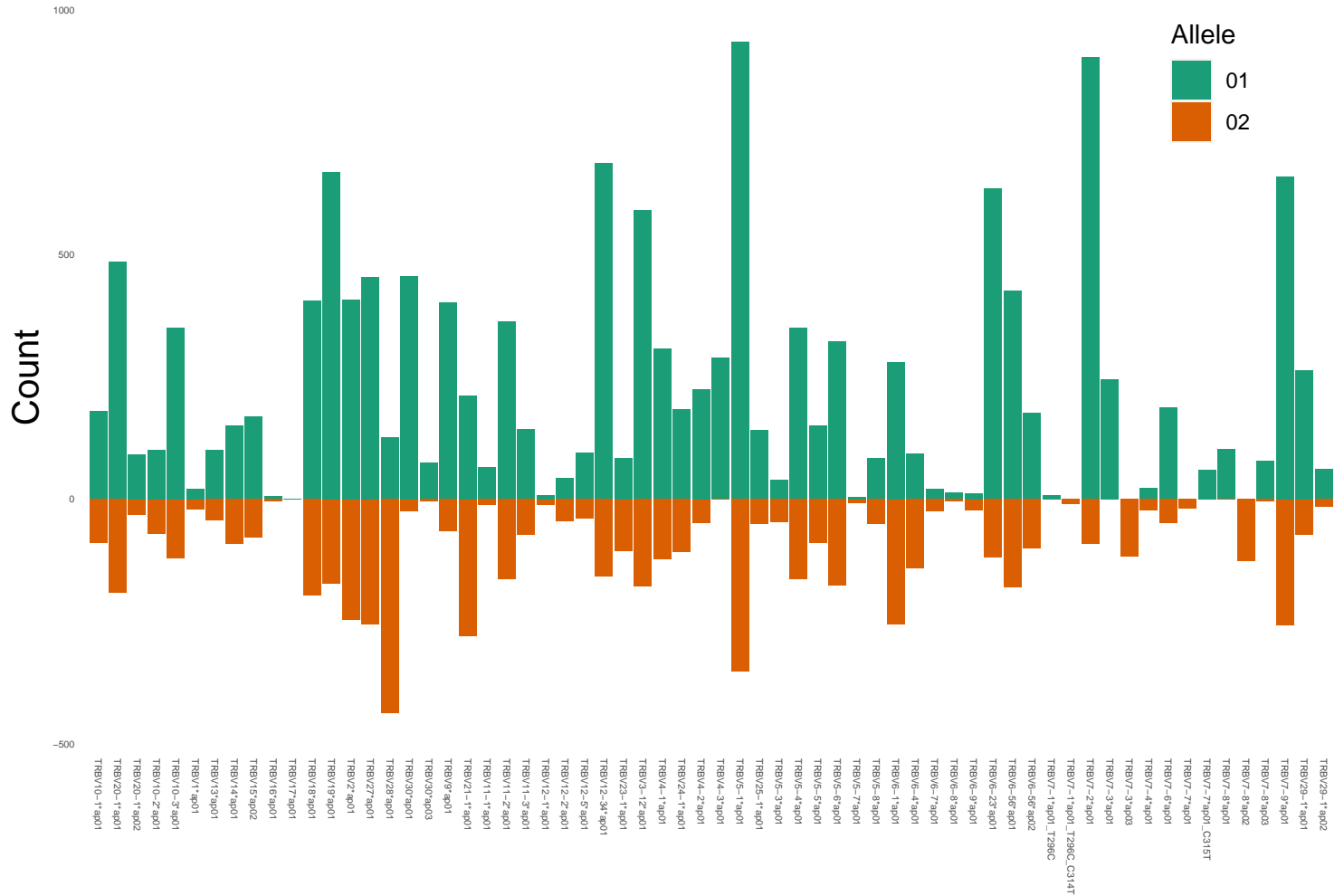


TRBV7-7\*ap01\_C315T





## Sequence Count by TRBJ2-7 allele usage



[illegible]