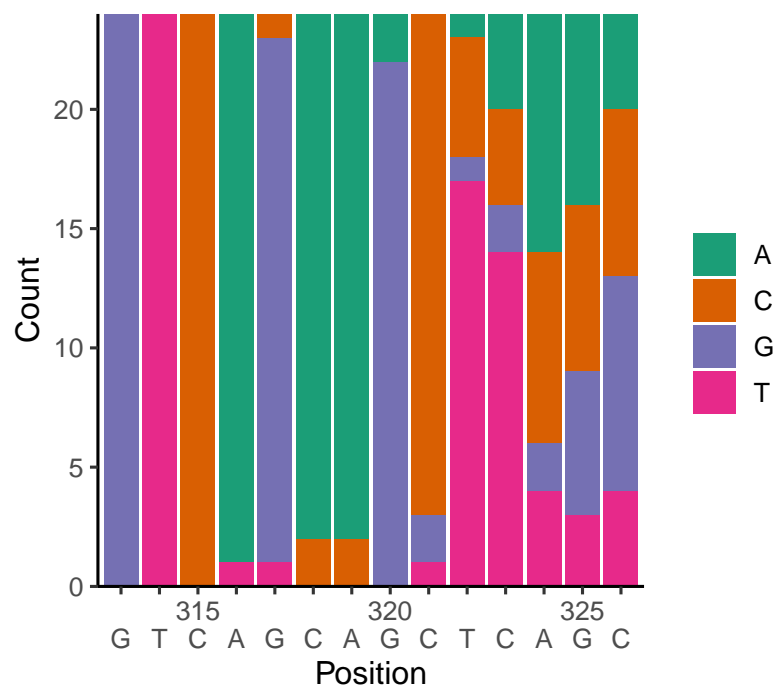
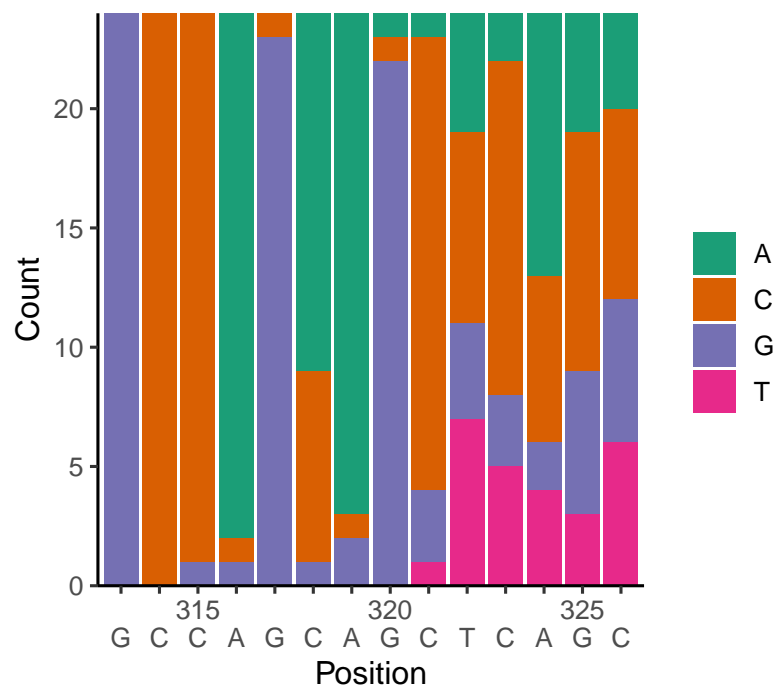


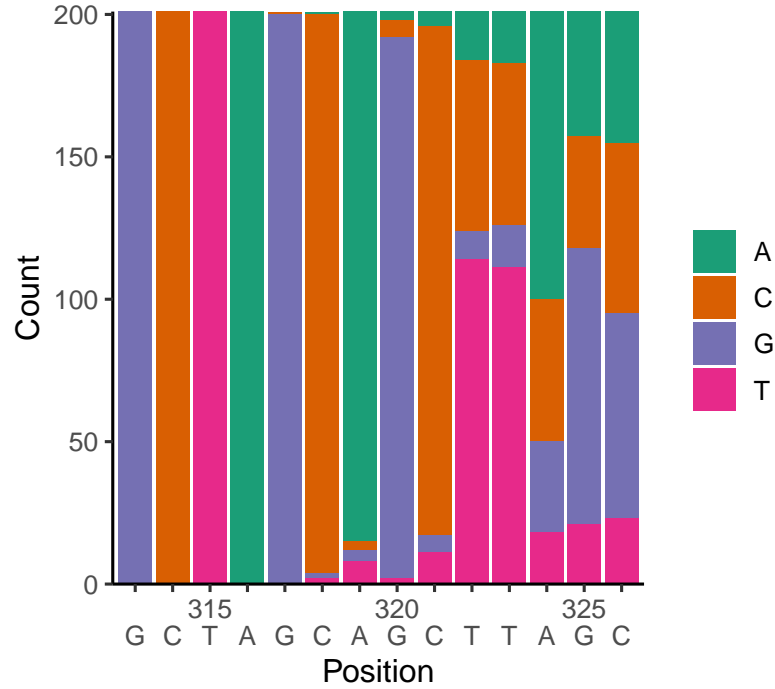
Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C



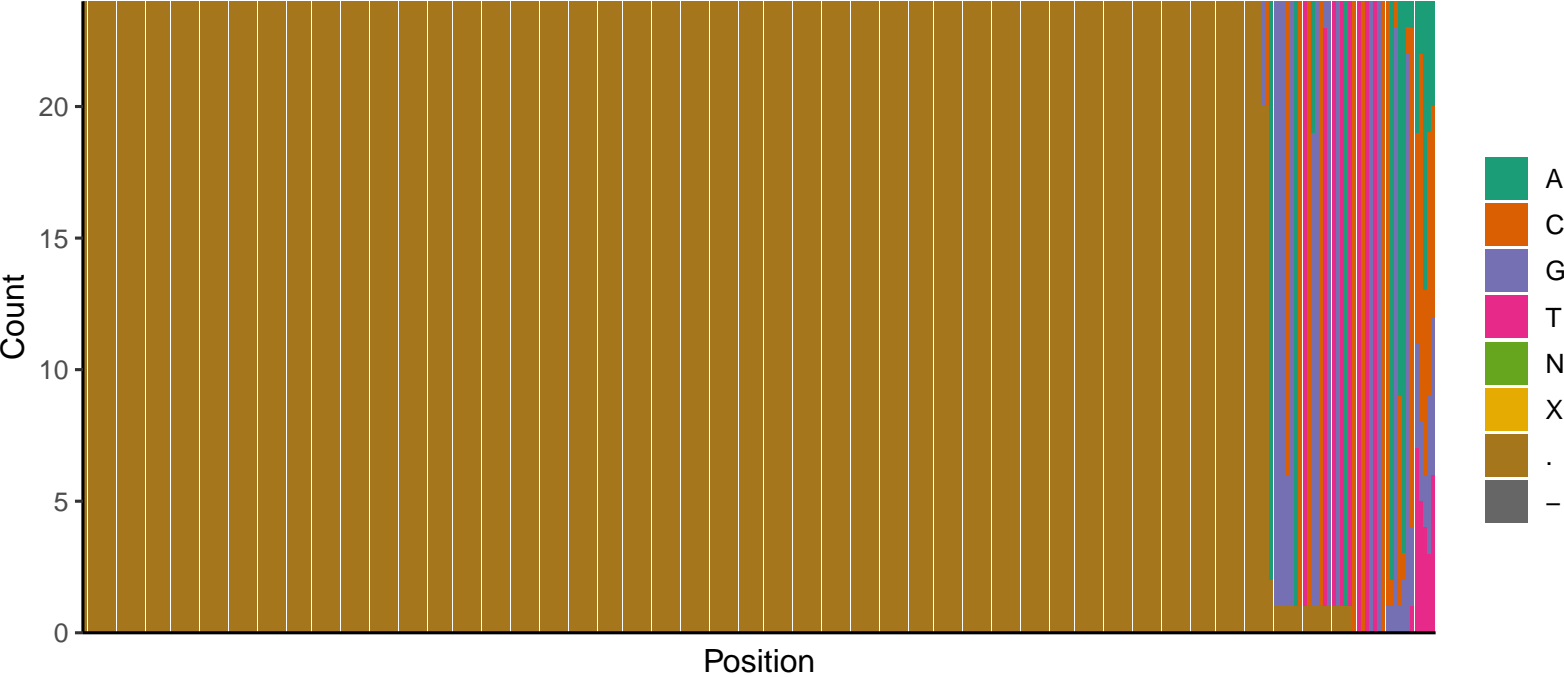
Gene TRBV7-7\*ap01\_C315T



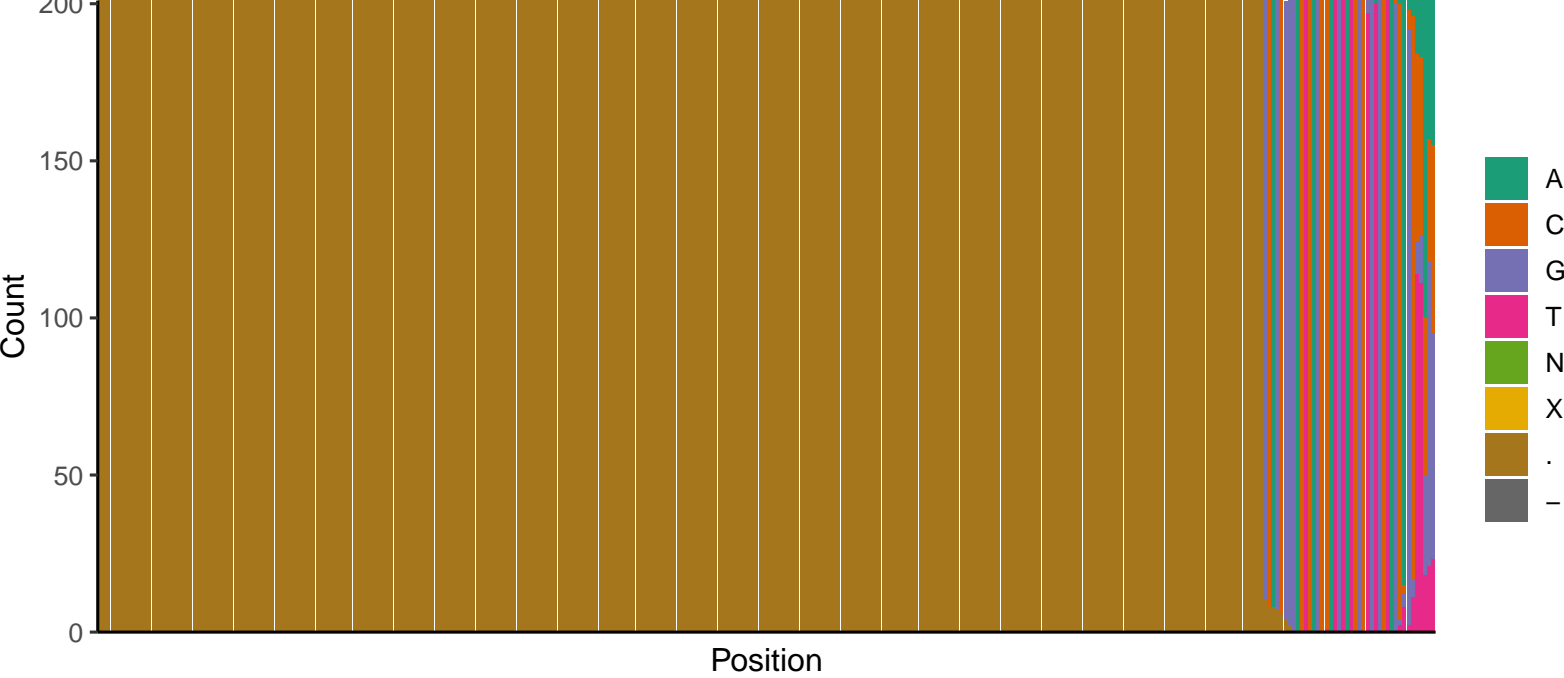
Gene TRBV7-1\*ap01\_T296C\_C314T



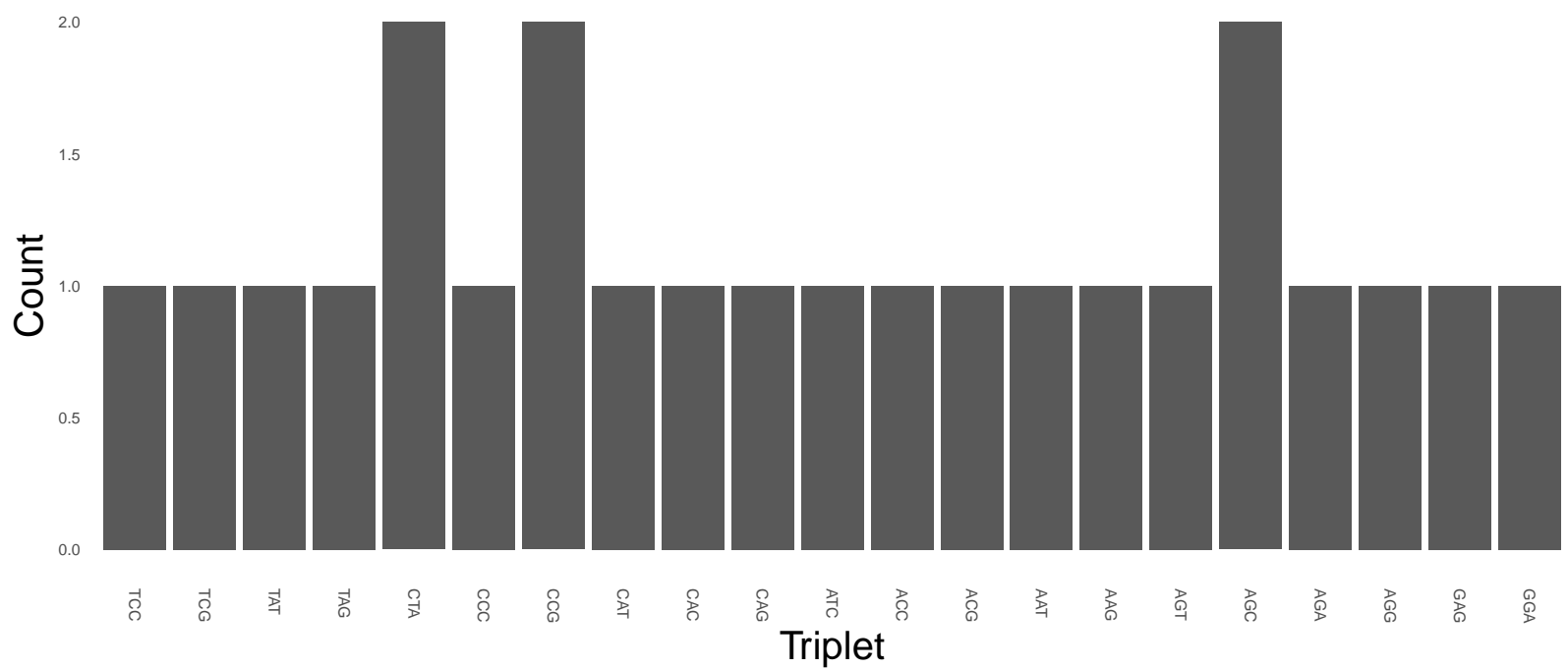
Gene TRBV7-1\*ap01\_T296C



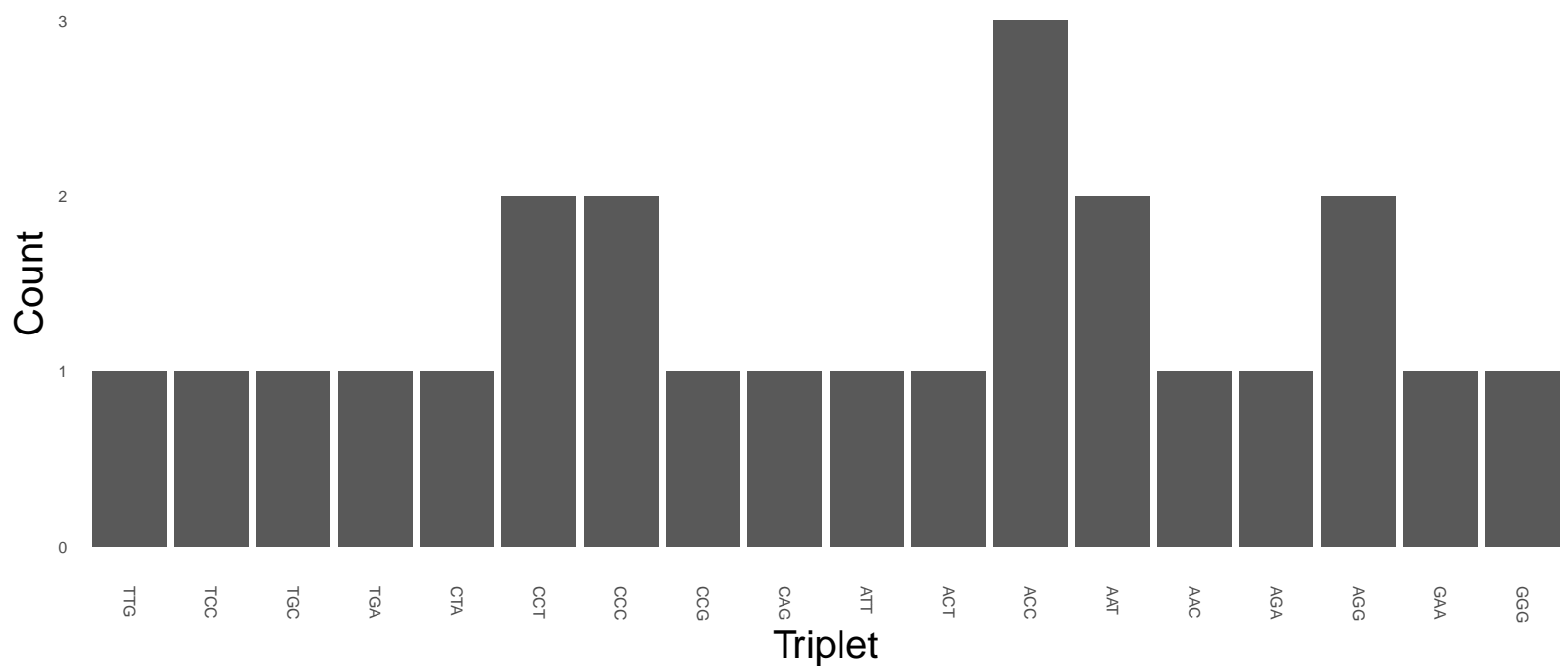
Gene TRBV7-7\*ap01\_C315T



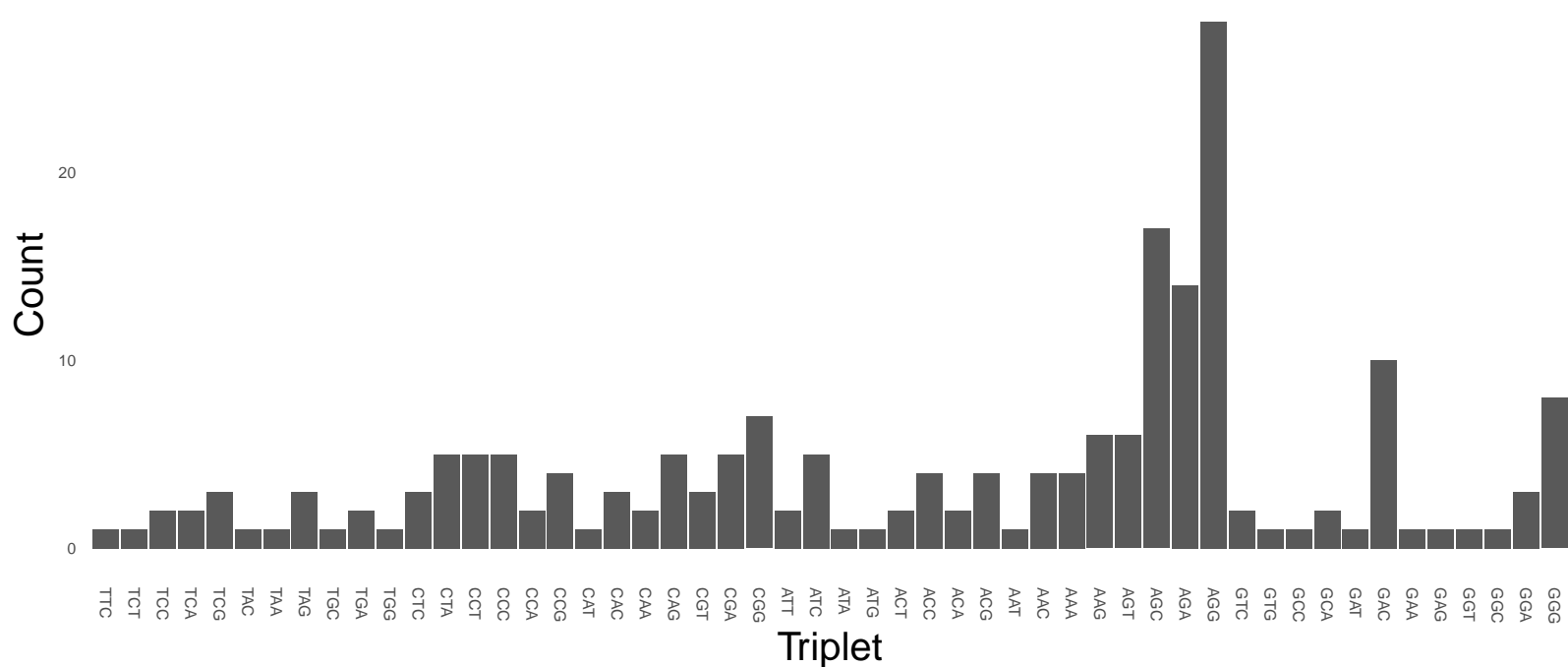
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

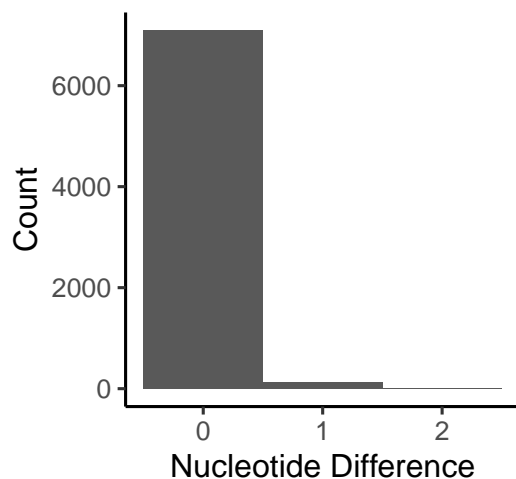


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



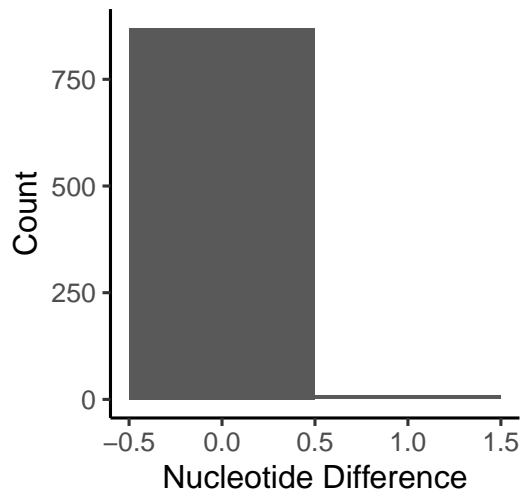
### TRBV20-1\*ap01

7221 sequences assigned  
7094 (98.2%) exact matches, in which:  
6901 unique CDR3  
13 unique J



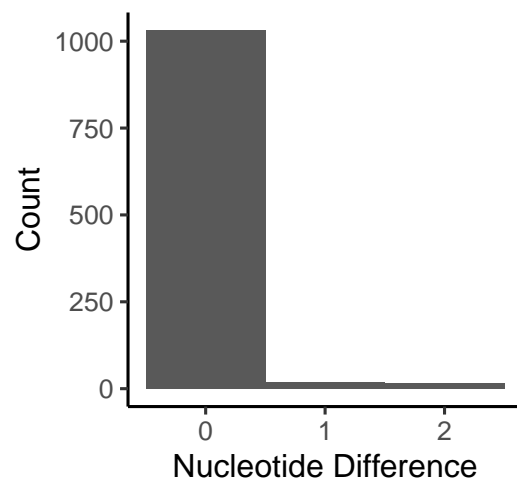
### TRBV10-2\*ap01

880 sequences assigned  
871 (99%) exact matches, in which:  
867 unique CDR3  
13 unique J



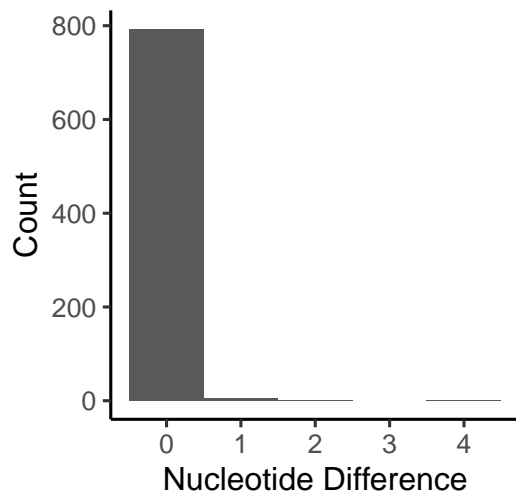
### TRBV13\*ap01

1067 sequences assigned  
1031 (96.6%) exact matches, in which:  
1019 unique CDR3  
13 unique J



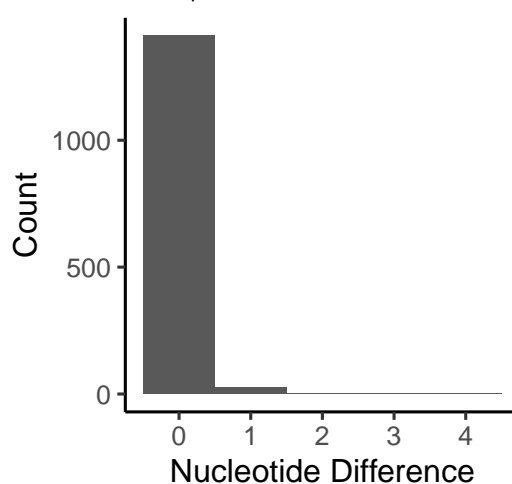
### TRBV10-1\*ap01

802 sequences assigned  
793 (98.9%) exact matches, in which:  
785 unique CDR3  
13 unique J



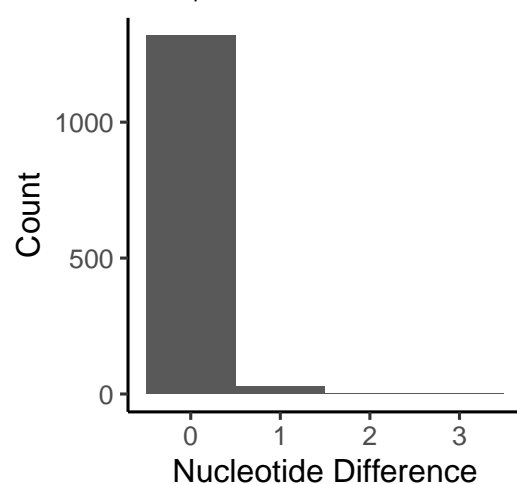
### TRBV10-3\*ap01

1440 sequences assigned  
1412 (98.1%) exact matches, in which:  
1396 unique CDR3  
13 unique J



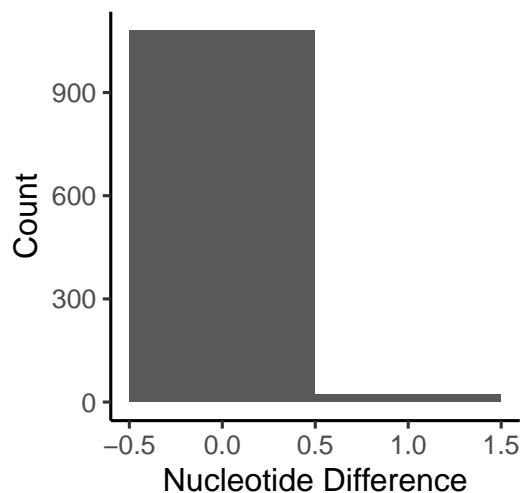
### TRBV14\*ap01

1347 sequences assigned  
1318 (97.8%) exact matches, in which:  
1297 unique CDR3  
13 unique J



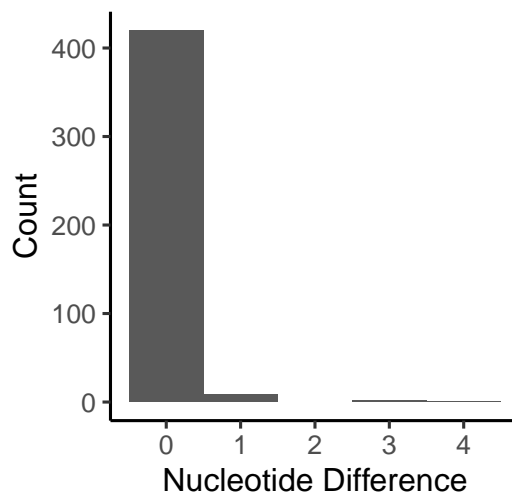
### TRBV20-1\*ap02

1102 sequences assigned  
1081 (98.1%) exact matches, in which:  
1042 unique CDR3  
13 unique J



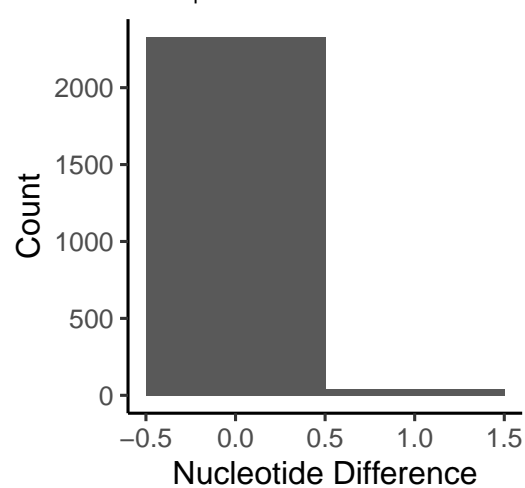
### TRBV1\*ap01

432 sequences assigned  
420 (97.2%) exact matches, in which:  
416 unique CDR3  
13 unique J



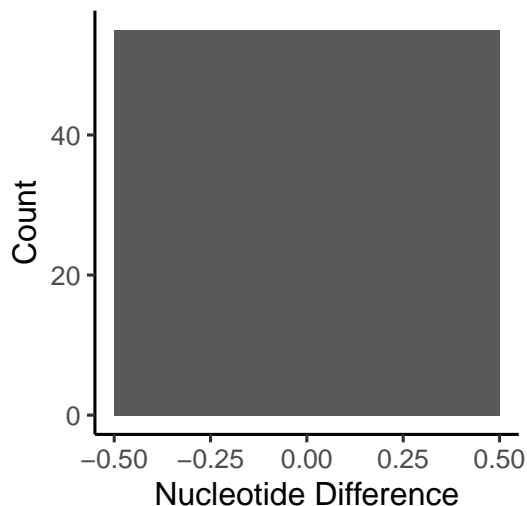
### TRBV15\*ap02

2369 sequences assigned  
2329 (98.3%) exact matches, in which:  
2303 unique CDR3  
13 unique J



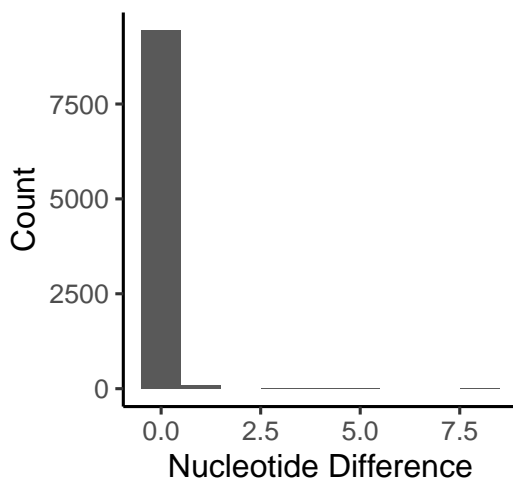
### TRBV16\*ap01

55 sequences assigned  
55 (100%) exact matches, in which:  
55 unique CDR3  
12 unique J



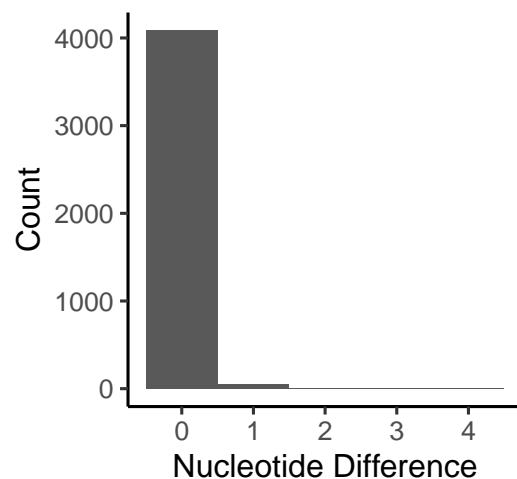
### TRBV19\*ap01

9543 sequences assigned  
9439 (98.9%) exact matches, in which:  
9325 unique CDR3  
13 unique J



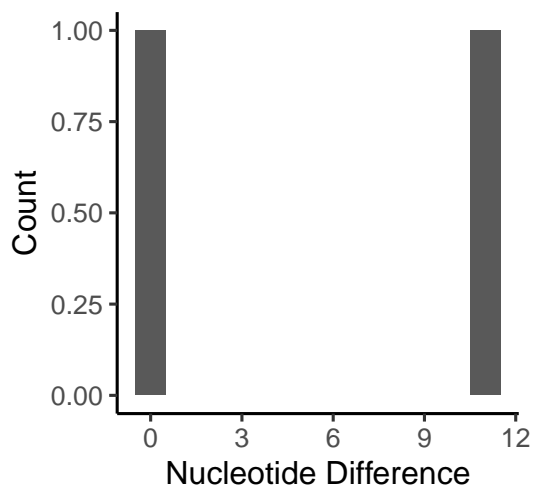
### TRBV27\*ap01

4145 sequences assigned  
4086 (98.6%) exact matches, in which:  
4042 unique CDR3  
13 unique J



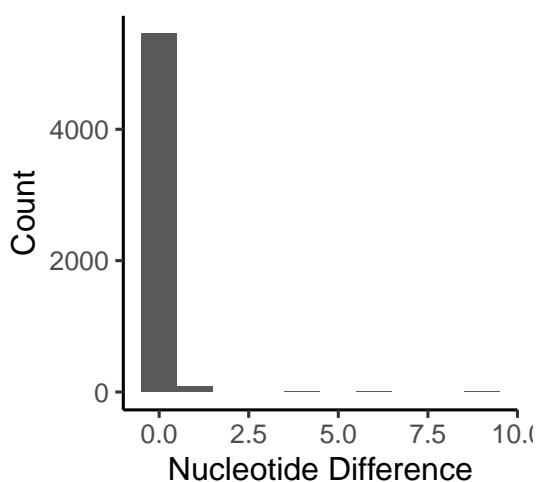
### TRBV17\*ap01

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



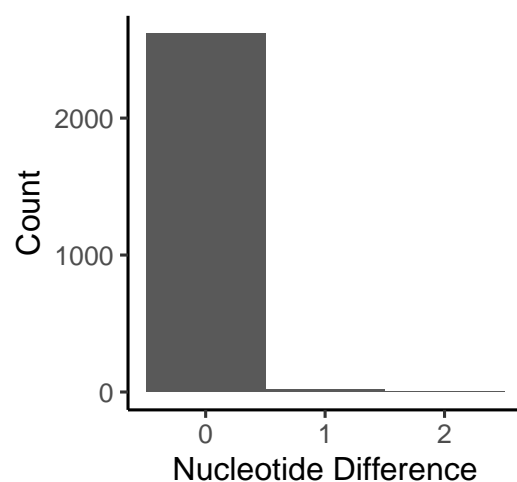
### TRBV2\*ap01

5543 sequences assigned  
5455 (98.4%) exact matches, in which:  
5402 unique CDR3  
13 unique J



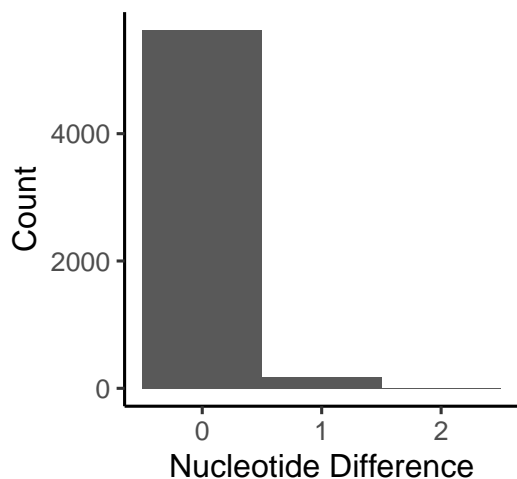
### TRBV28\*ap01

2639 sequences assigned  
2616 (99.1%) exact matches, in which:  
2583 unique CDR3  
13 unique J



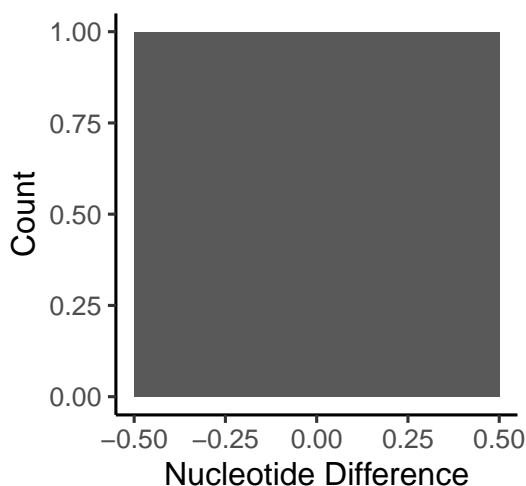
### TRBV18\*ap01

5805 sequences assigned  
5628 (97%) exact matches, in which:  
5490 unique CDR3  
13 unique J



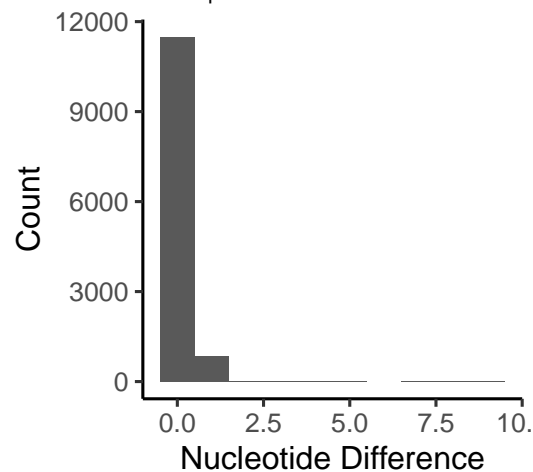
### TRBV26\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



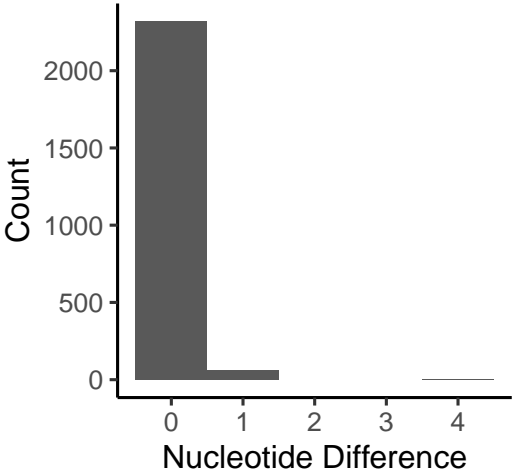
### TRBV30\*ap01

12389 sequences assigned  
11494 (92.8%) exact matches, in which:  
10789 unique CDR3  
13 unique J



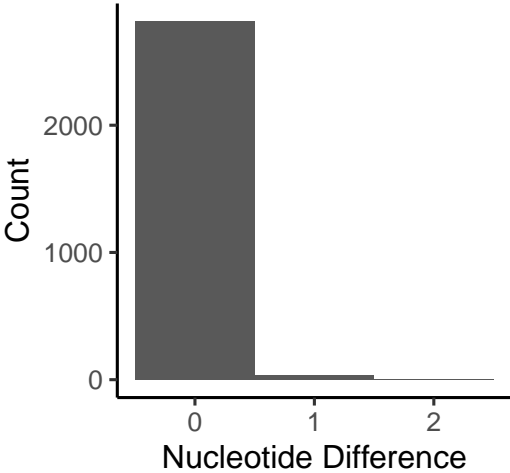
TRBV9\*ap01

2382 sequences assigned  
2319 (97.4%) exact matches, in which:  
2284 unique CDR3  
13 unique J



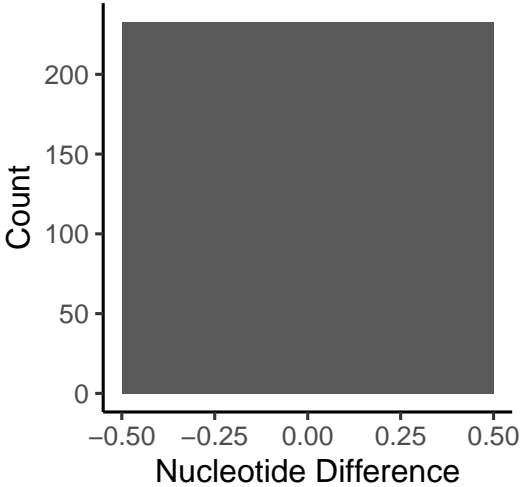
TRBV11-2\*ap01

2849 sequences assigned  
2816 (98.8%) exact matches, in which:  
2791 unique CDR3  
13 unique J



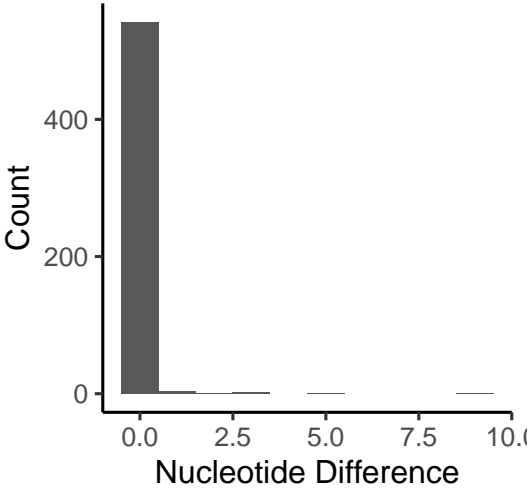
TRBV12-2\*ap01

233 sequences assigned  
233 (100%) exact matches, in which:  
230 unique CDR3  
13 unique J



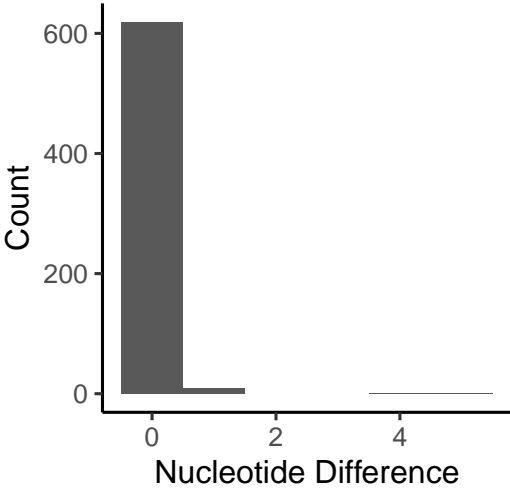
TRBV21-1\*ap01

550 sequences assigned  
542 (98.5%) exact matches, in which:  
541 unique CDR3  
13 unique J



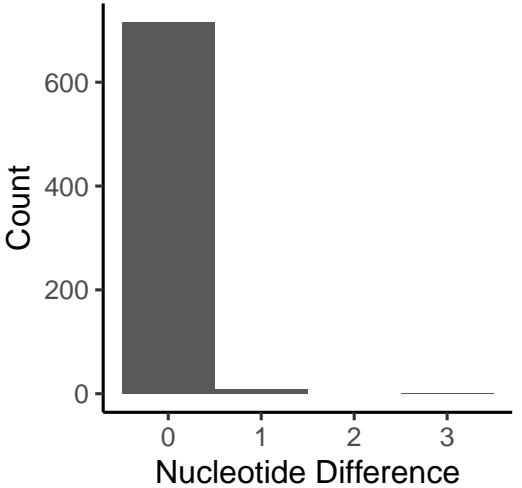
TRBV11-3\*ap01

631 sequences assigned  
619 (98.1%) exact matches, in which:  
611 unique CDR3  
13 unique J



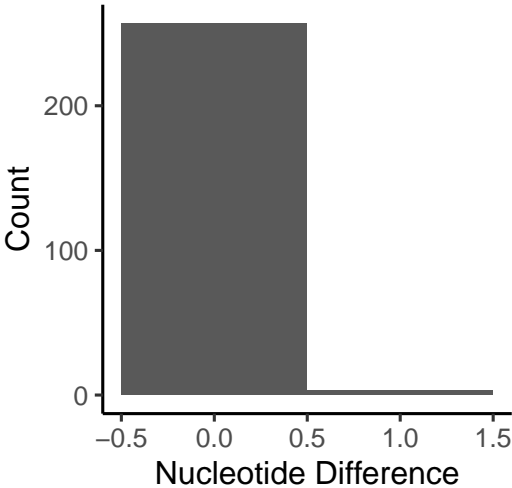
TRBV12-5\*ap01

726 sequences assigned  
716 (98.6%) exact matches, in which:  
712 unique CDR3  
13 unique J



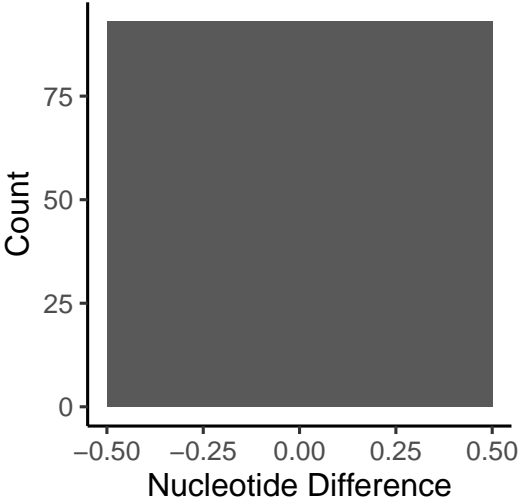
TRBV11-1\*ap01

260 sequences assigned  
257 (98.8%) exact matches, in which:  
256 unique CDR3  
13 unique J



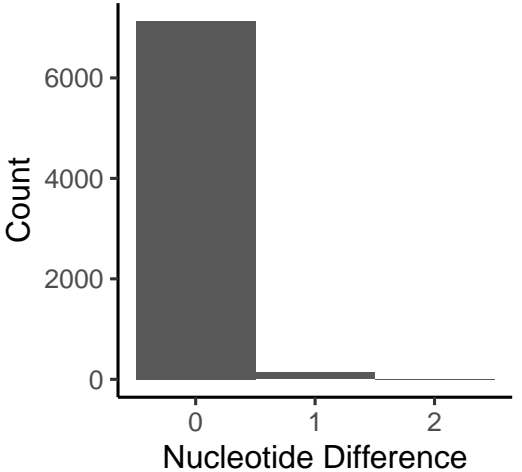
TRBV12-1\*ap01

93 sequences assigned  
93 (100%) exact matches, in which:  
92 unique CDR3  
12 unique J



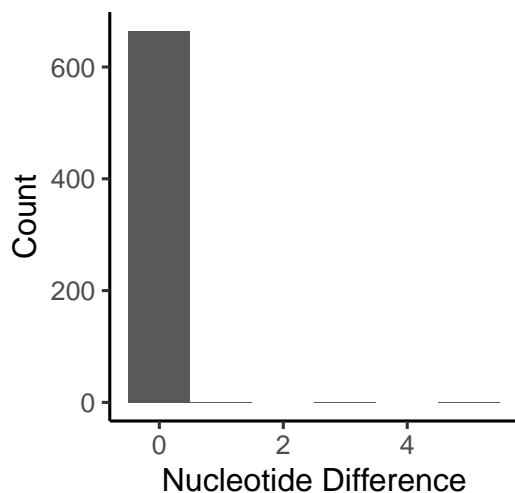
TRBV12-34\*ap01

7273 sequences assigned  
7132 (98.1%) exact matches, in which:  
7027 unique CDR3  
13 unique J



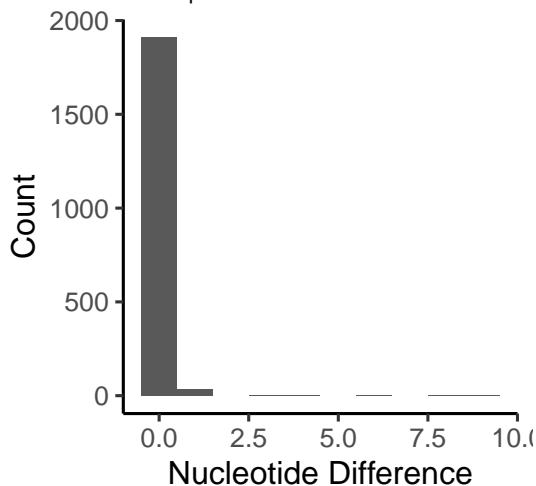
### TRBV23-1\*ap01

668 sequences assigned  
665 (99.6%) exact matches, in which:  
659 unique CDR3  
13 unique J



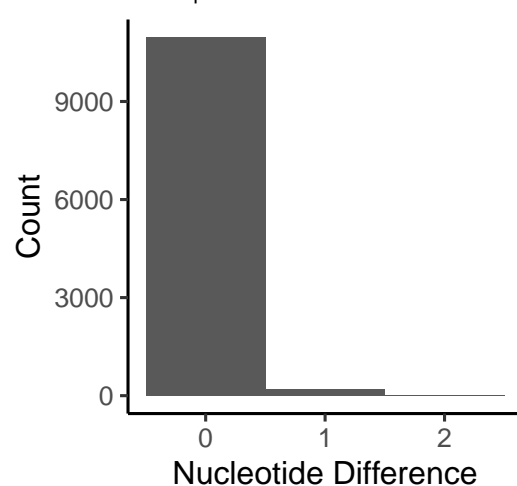
### TRBV24-1\*ap01

1954 sequences assigned  
1910 (97.7%) exact matches, in which:  
1884 unique CDR3  
13 unique J



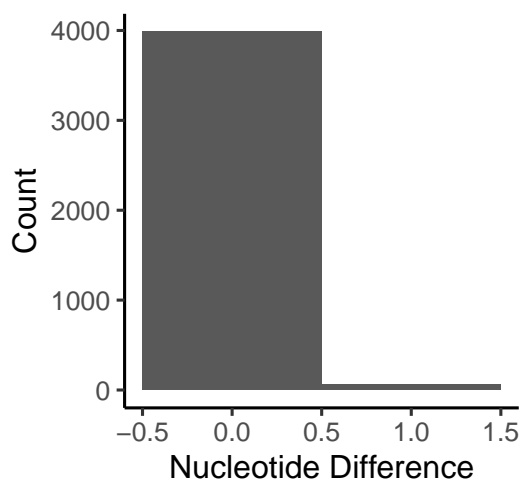
### TRBV5-1\*ap01

11166 sequences assigned  
10960 (98.2%) exact matches, in which:  
10710 unique CDR3  
13 unique J



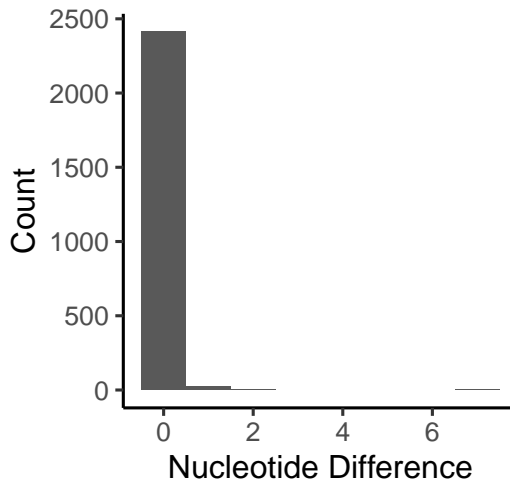
### TRBV3-12\*ap01

4050 sequences assigned  
3986 (98.4%) exact matches, in which:  
3958 unique CDR3  
13 unique J



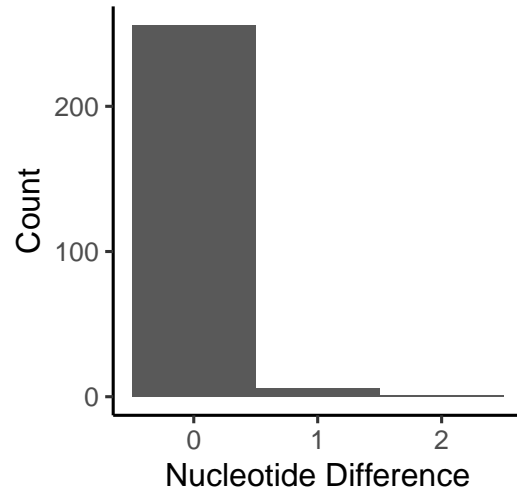
### TRBV4-2\*ap01

2442 sequences assigned  
2413 (98.8%) exact matches, in which:  
2350 unique CDR3  
13 unique J



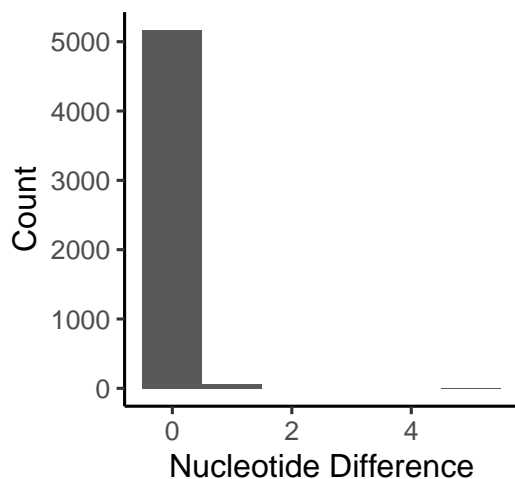
### TRBV5-3\*ap01

263 sequences assigned  
256 (97.3%) exact matches, in which:  
253 unique CDR3  
13 unique J



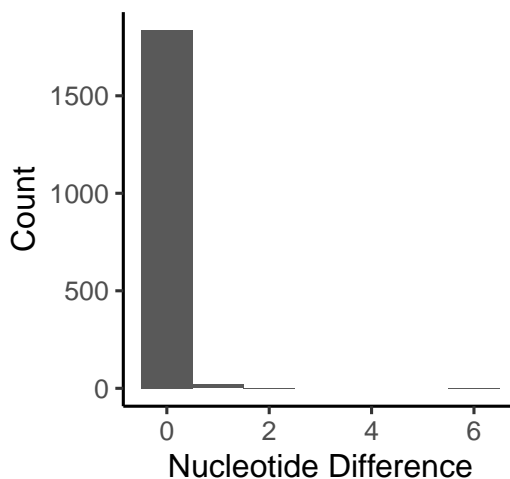
### TRBV4-1\*ap01

5237 sequences assigned  
5168 (98.7%) exact matches, in which:  
5029 unique CDR3  
13 unique J



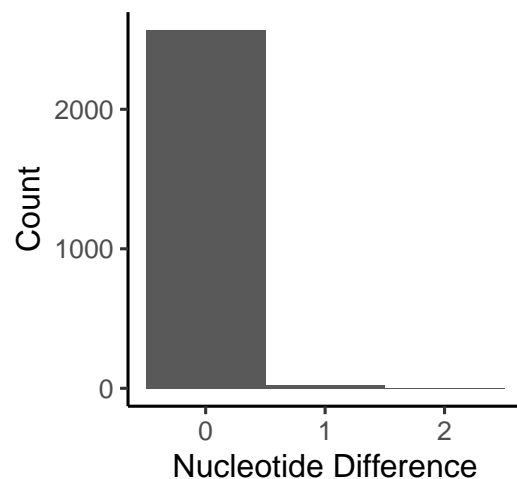
### TRBV25-1\*ap01

1859 sequences assigned  
1837 (98.8%) exact matches, in which:  
1801 unique CDR3  
13 unique J



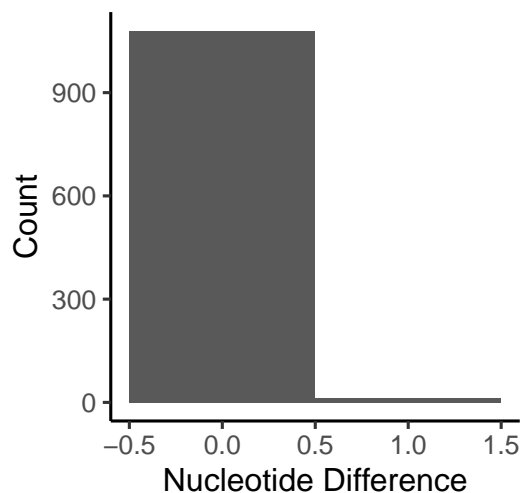
### TRBV5-4\*ap01

2591 sequences assigned  
2568 (99.1%) exact matches, in which:  
2525 unique CDR3  
13 unique J



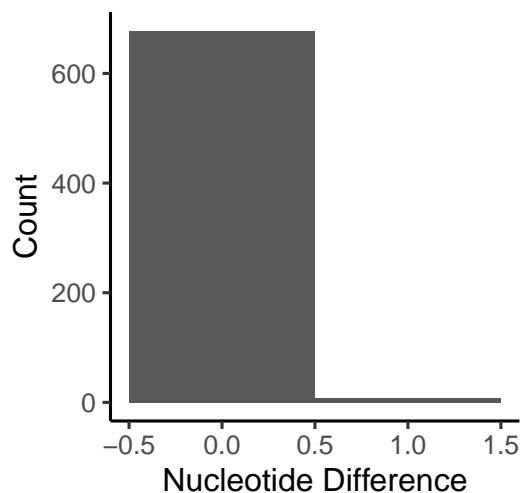
### TRBV5-5\*ap01

1093 sequences assigned  
1080 (98.8%) exact matches, in which:  
1069 unique CDR3  
13 unique J



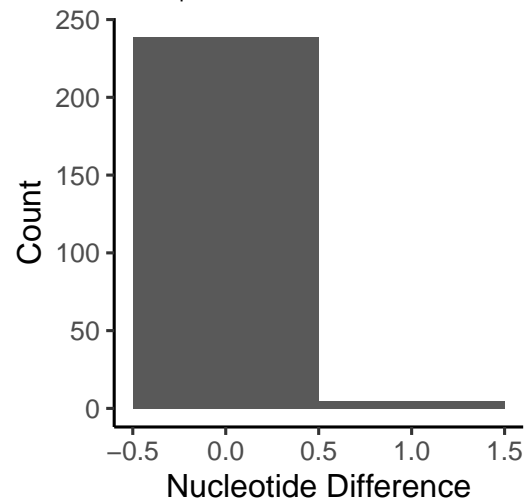
### TRBV5-8\*ap01

686 sequences assigned  
678 (98.8%) exact matches, in which:  
676 unique CDR3  
13 unique J



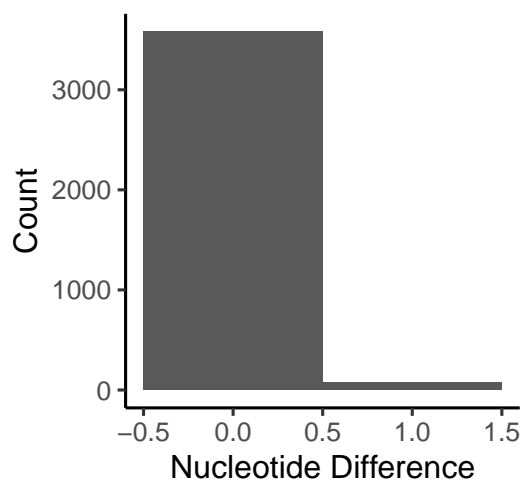
### TRBV6-7\*ap01

244 sequences assigned  
239 (98%) exact matches, in which:  
234 unique CDR3  
13 unique J



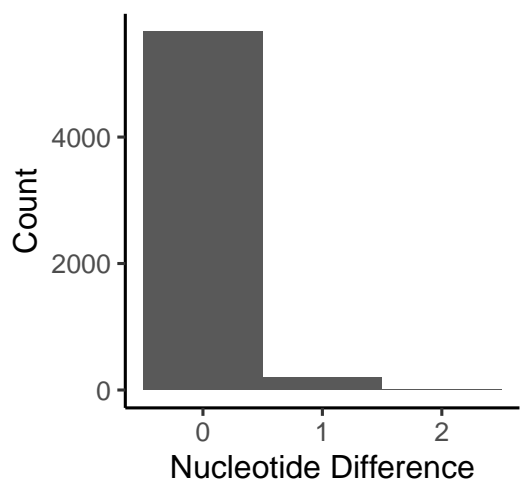
### TRBV5-6\*ap01

3653 sequences assigned  
3580 (98%) exact matches, in which:  
3453 unique CDR3  
13 unique J



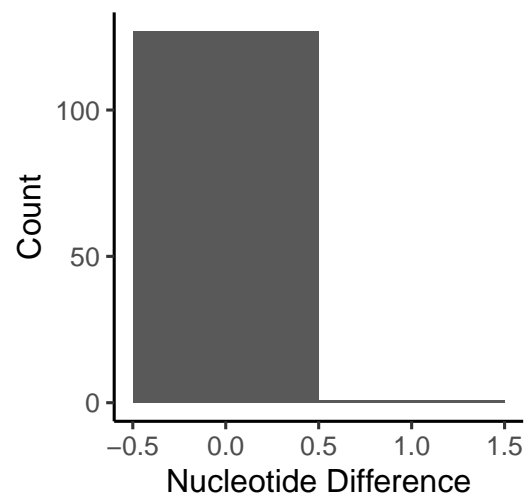
### TRBV6-1\*ap01

5862 sequences assigned  
5666 (96.7%) exact matches, in which:  
5565 unique CDR3  
13 unique J



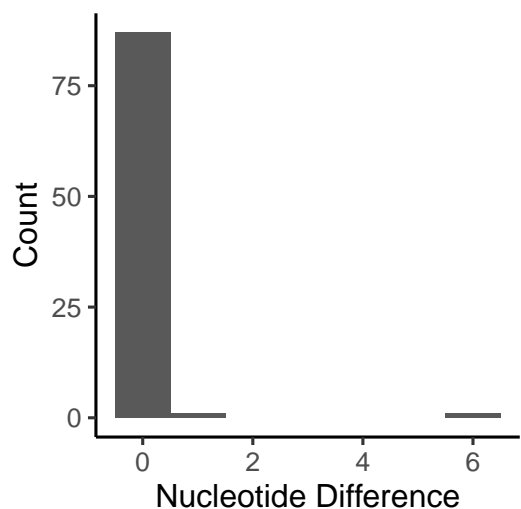
### TRBV6-8\*ap01

128 sequences assigned  
127 (99.2%) exact matches, in which:  
124 unique CDR3  
12 unique J



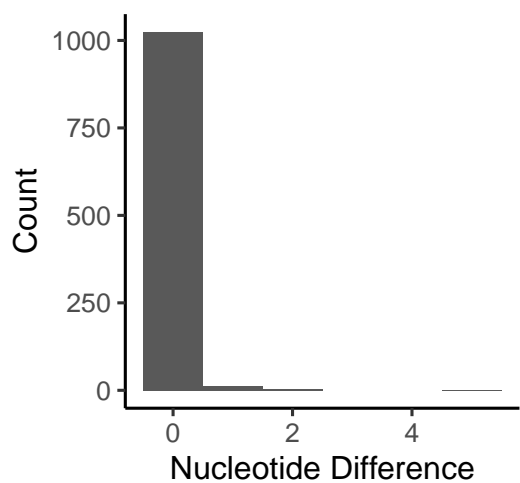
### TRBV5-7\*ap01

89 sequences assigned  
87 (97.8%) exact matches, in which:  
87 unique CDR3  
12 unique J



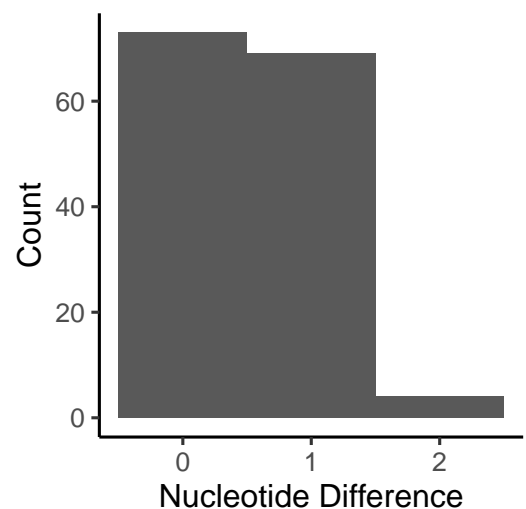
### TRBV6-4\*ap01

1040 sequences assigned  
1024 (98.5%) exact matches, in which:  
1011 unique CDR3  
13 unique J



### TRBV6-9\*ap01

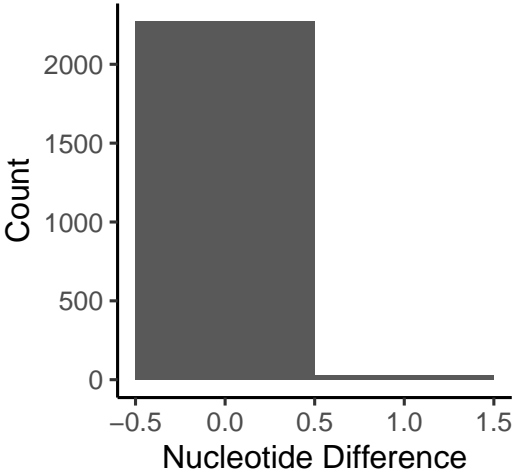
146 sequences assigned  
73 (50%) exact matches, in which:  
69 unique CDR3  
11 unique J





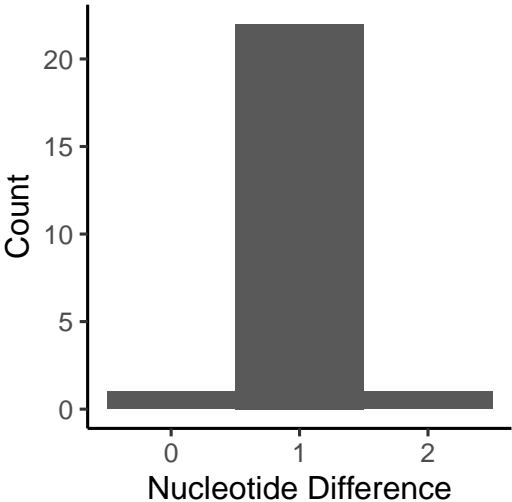
TRBV6-23\*ap01

2303 sequences assigned  
2272 (98.7%) exact matches, in which:  
2242 unique CDR3  
13 unique J



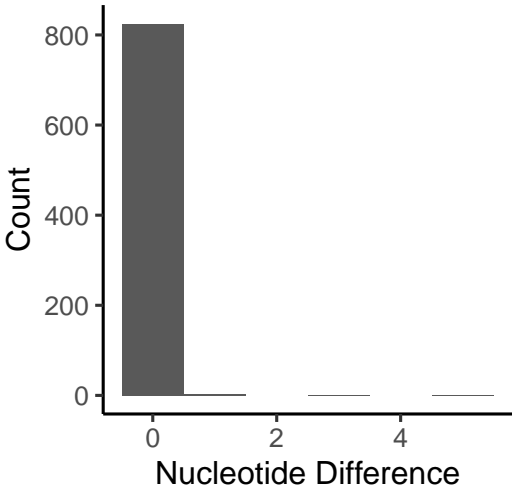
TRBV7-1\*ap01\_T296C

24 sequences assigned  
1 (4.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



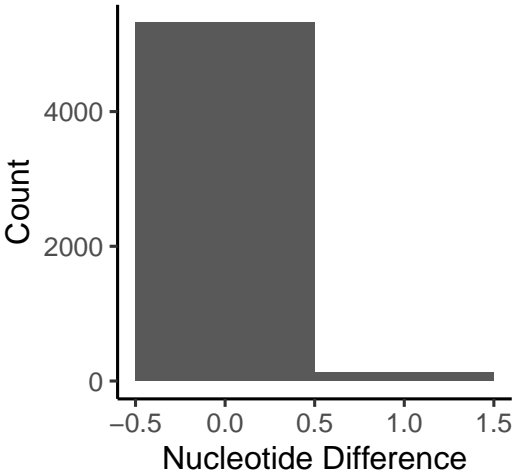
TRBV7-3\*ap03

830 sequences assigned  
825 (99.4%) exact matches, in which:  
822 unique CDR3  
13 unique J



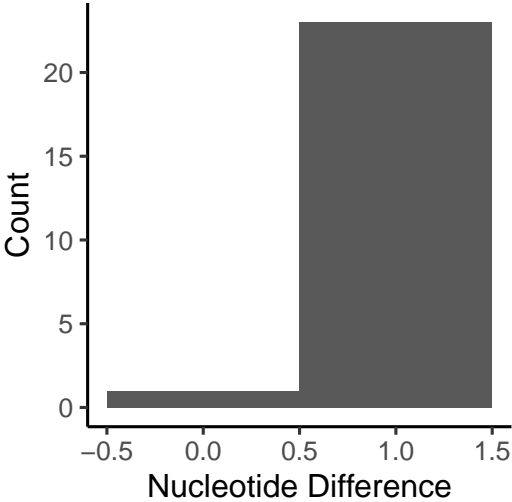
TRBV6-56\*ap01

5440 sequences assigned  
5319 (97.8%) exact matches, in which:  
5223 unique CDR3  
13 unique J



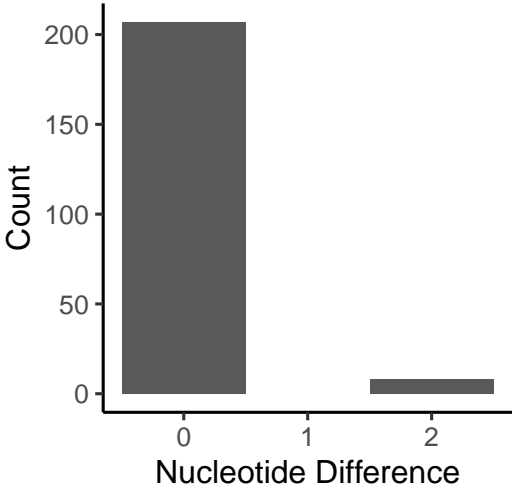
TRBV7-1\*ap01\_T296C\_C

24 sequences assigned  
1 (4.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



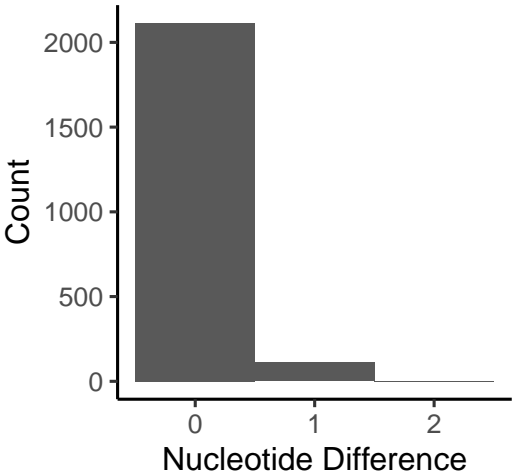
TRBV7-4\*ap01

215 sequences assigned  
207 (96.3%) exact matches, in which:  
202 unique CDR3  
13 unique J



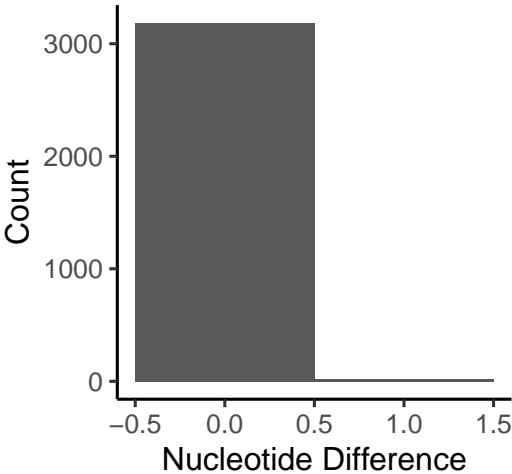
TRBV6-56\*ap02

2226 sequences assigned  
2114 (95%) exact matches, in which:  
2066 unique CDR3  
13 unique J



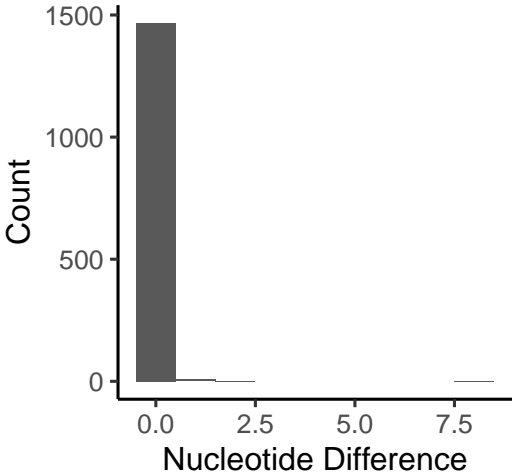
TRBV7-2\*ap01

3206 sequences assigned  
3184 (99.3%) exact matches, in which:  
3150 unique CDR3  
13 unique J



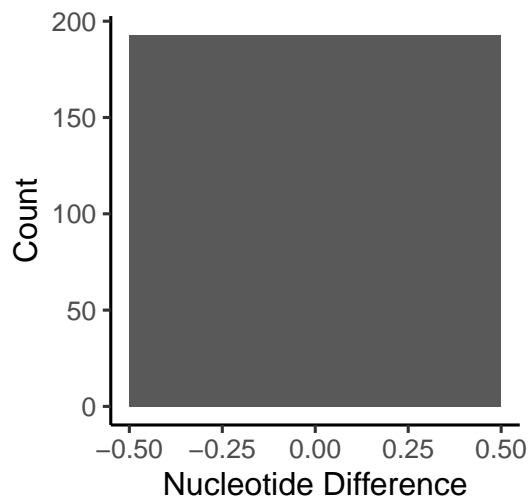
TRBV7-6\*ap01

1477 sequences assigned  
1467 (99.3%) exact matches, in which:  
1439 unique CDR3  
13 unique J



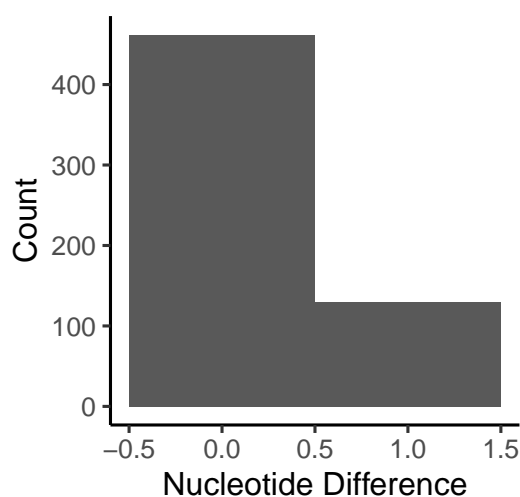
### TRBV7-7\*ap01

193 sequences assigned  
193 (100%) exact matches, in which:  
187 unique CDR3  
12 unique J



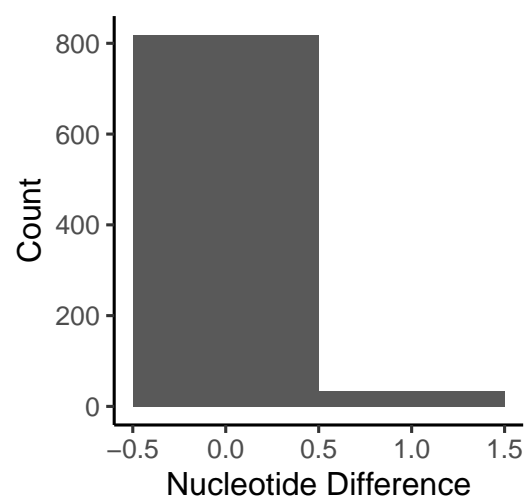
### TRBV7-8\*ap03

592 sequences assigned  
462 (78%) exact matches, in which:  
454 unique CDR3  
13 unique J



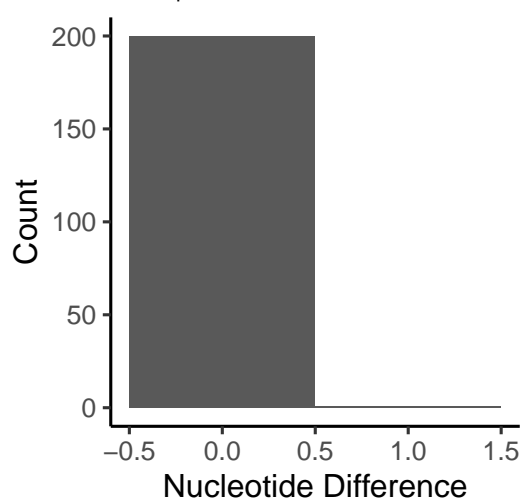
### TRBV29-1\*ap02

853 sequences assigned  
819 (96%) exact matches, in which:  
768 unique CDR3  
13 unique J



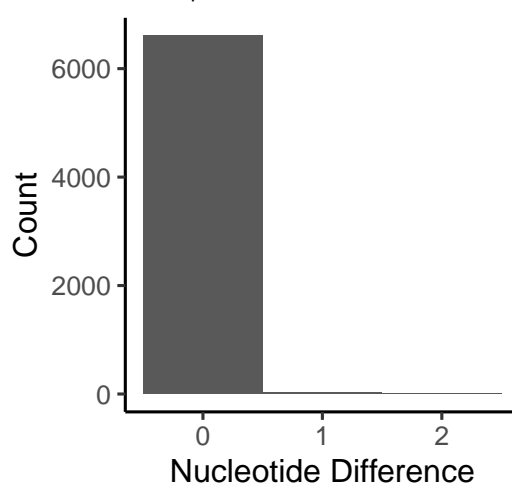
### TRBV7-7\*ap01\_C315T

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



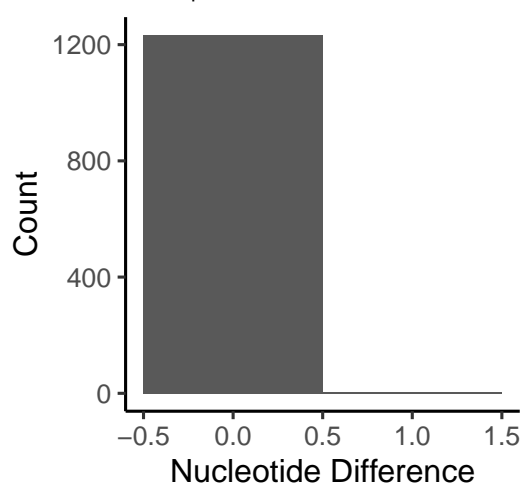
### TRBV7-9\*ap01

6638 sequences assigned  
6607 (99.5%) exact matches, in which:  
6493 unique CDR3  
13 unique J



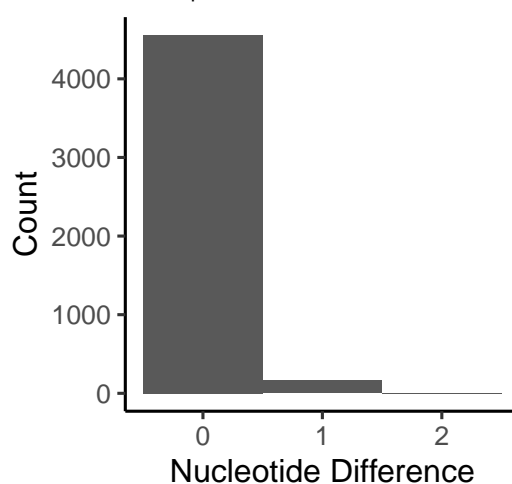
### TRBV7-8\*ap01

1237 sequences assigned  
1233 (99.7%) exact matches, in which:  
1216 unique CDR3  
13 unique J

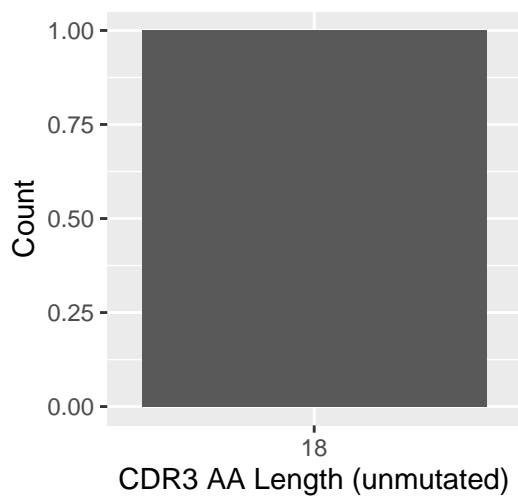


### TRBV29-1\*ap01

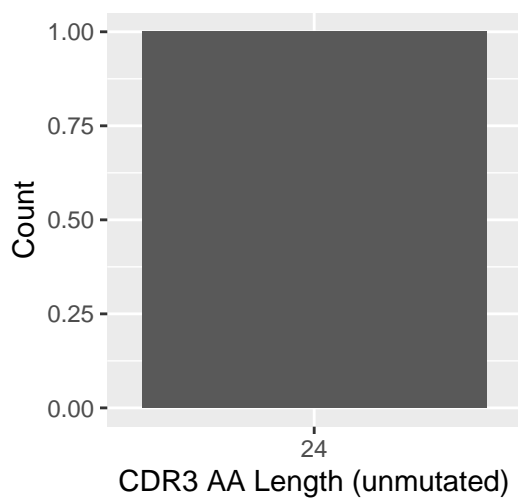
4726 sequences assigned  
4557 (96.4%) exact matches, in which:  
4310 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T

