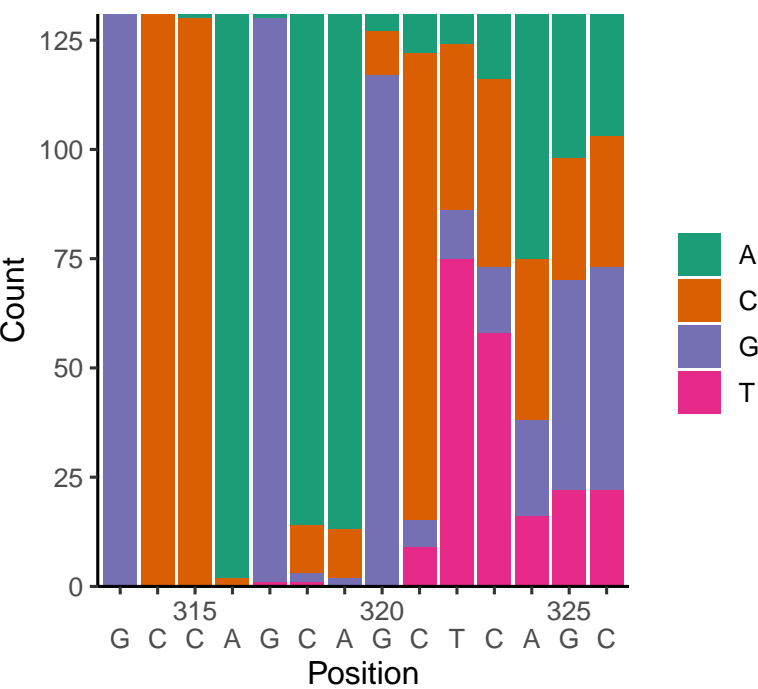
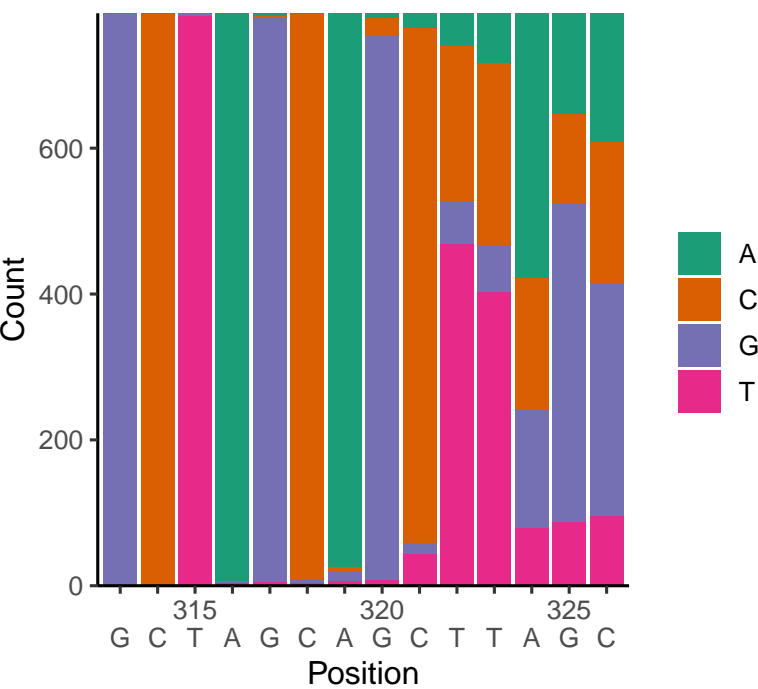


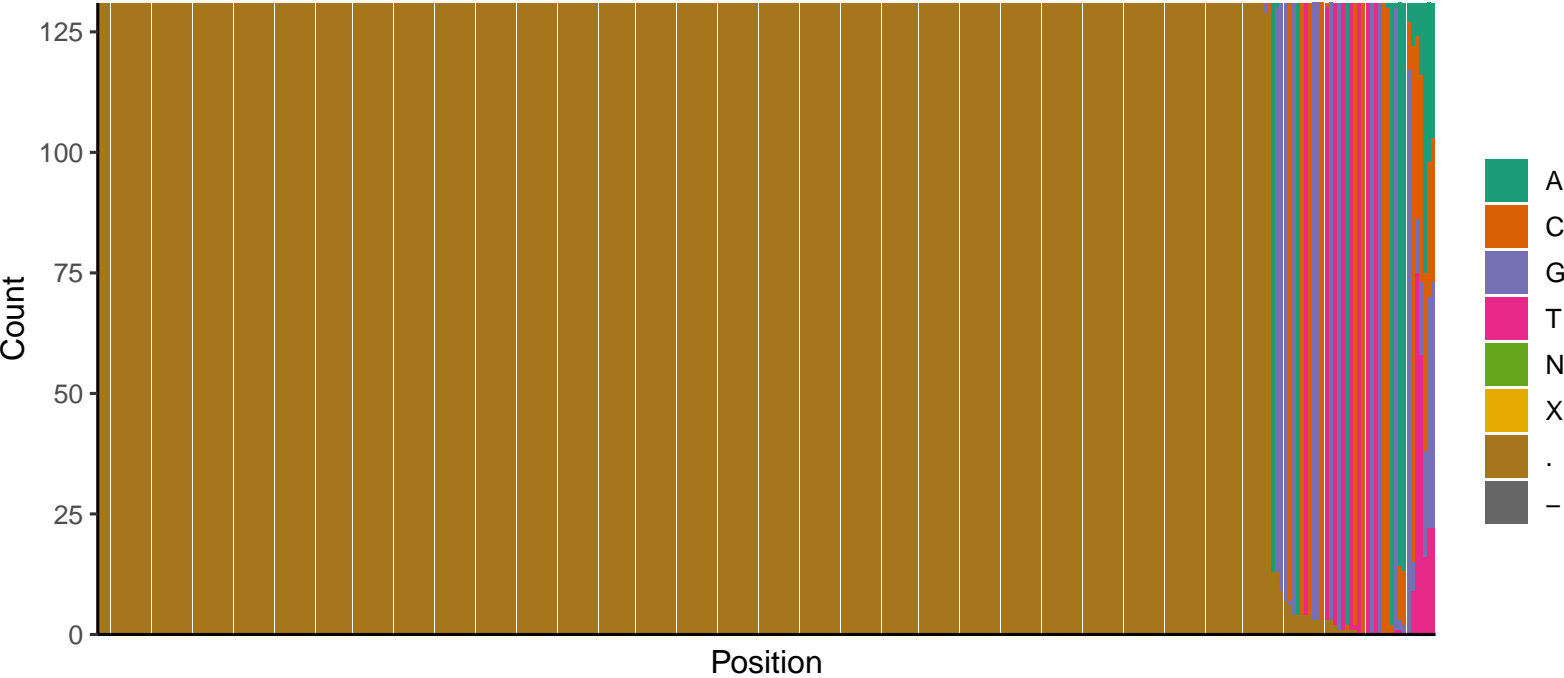
Gene TRBV7-1\*ap01\_G291C\_T296C



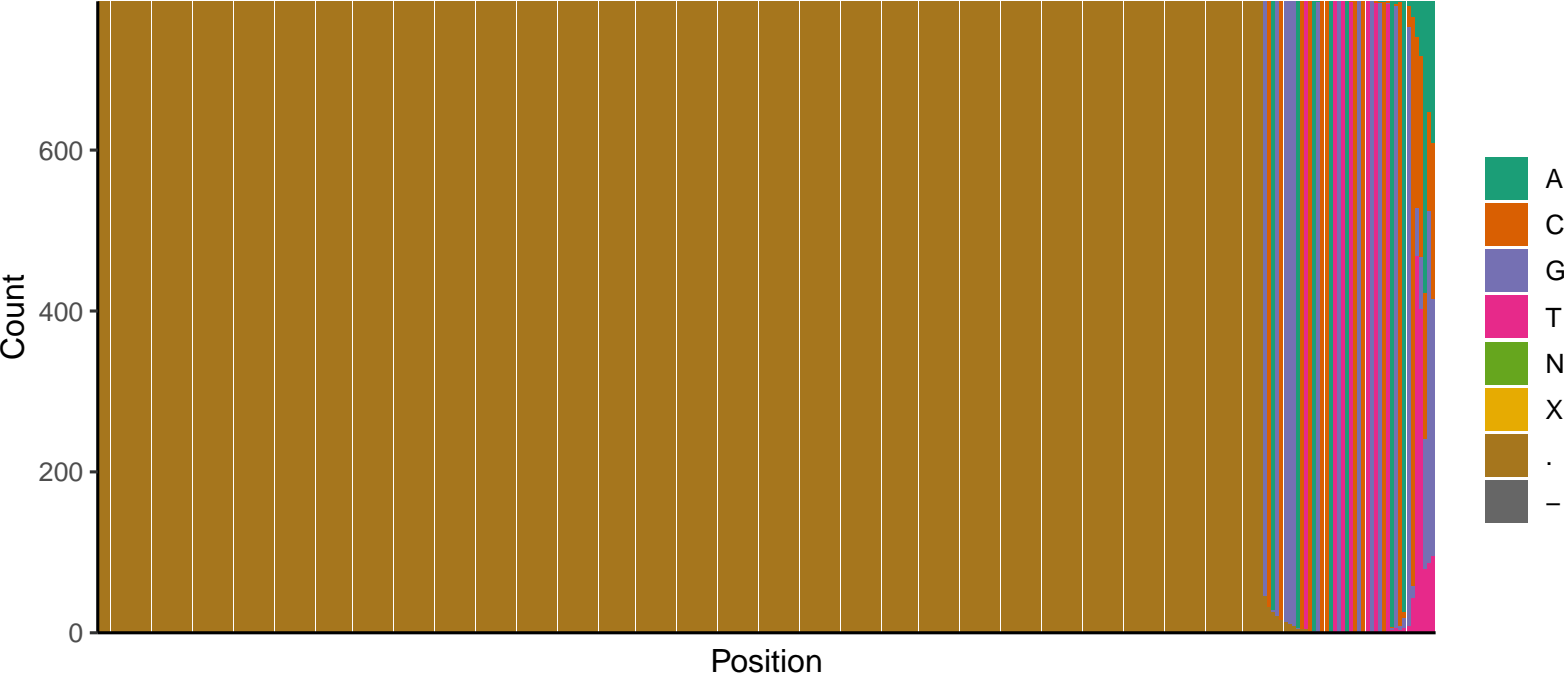
Gene TRBV7-7\*ap01\_C315T



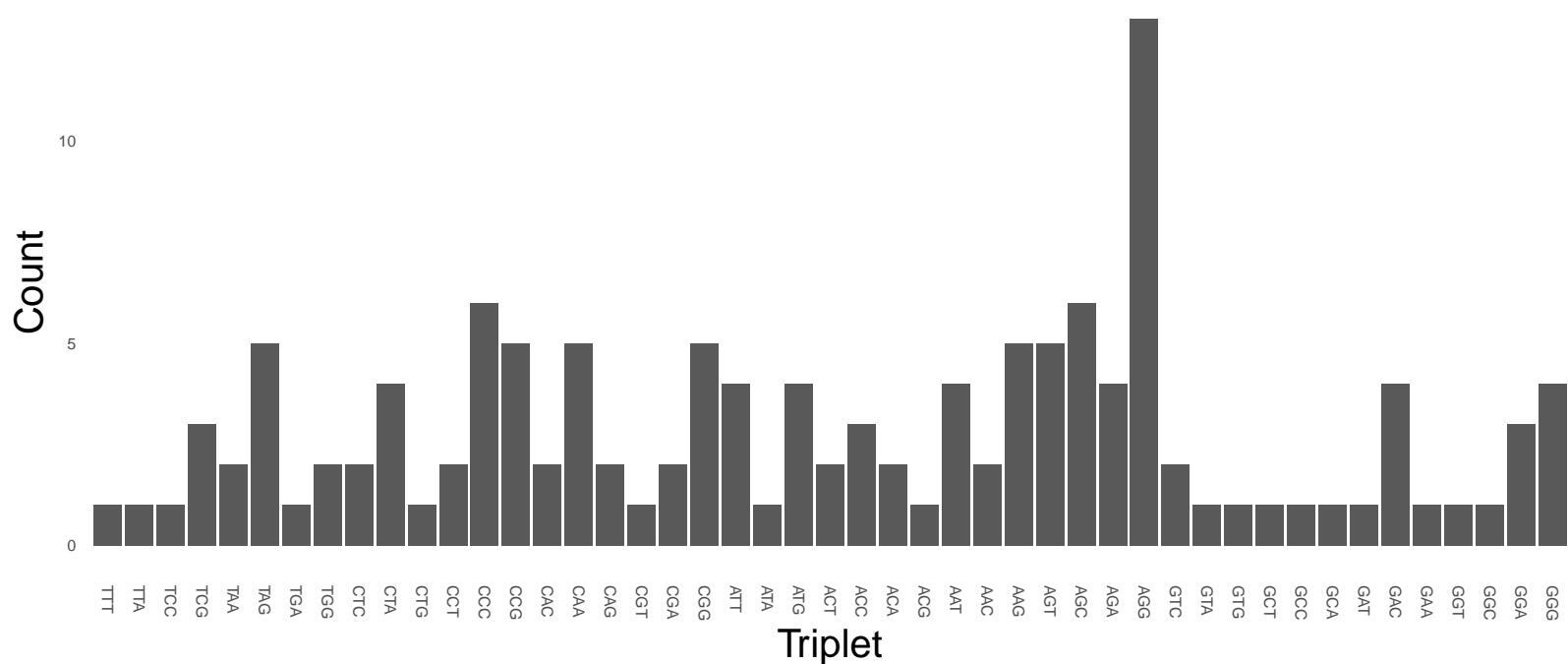
Gene TRBV7-1\*ap01\_G291C\_T296C



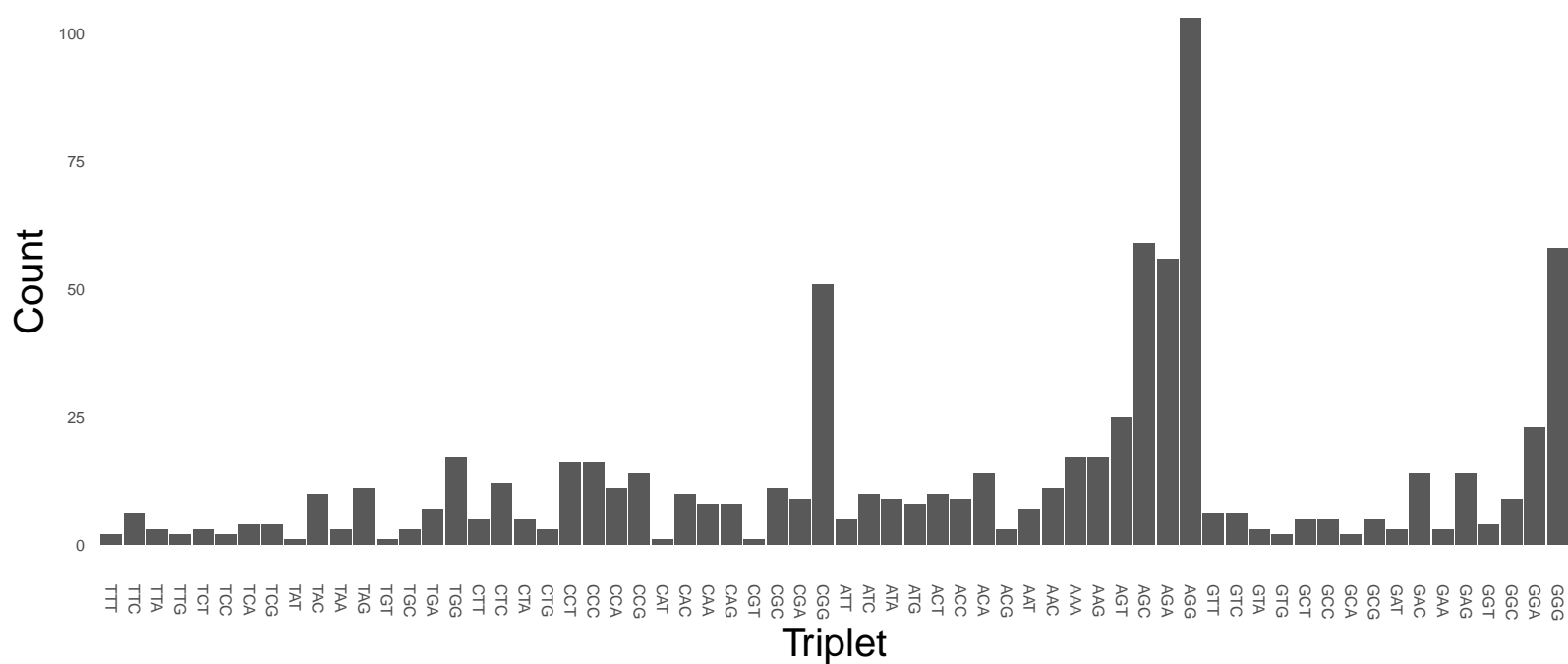
Gene TRBV7-7\*ap01\_C315T



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

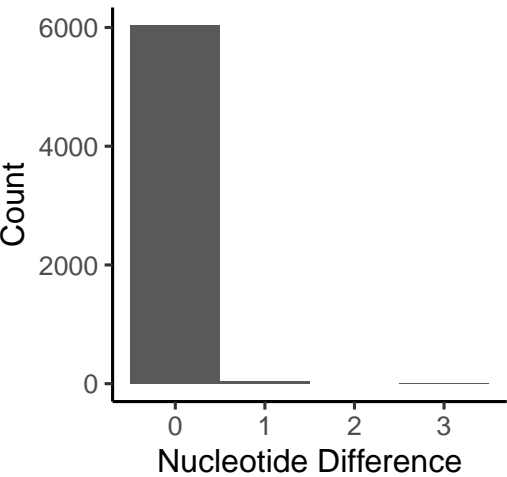


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



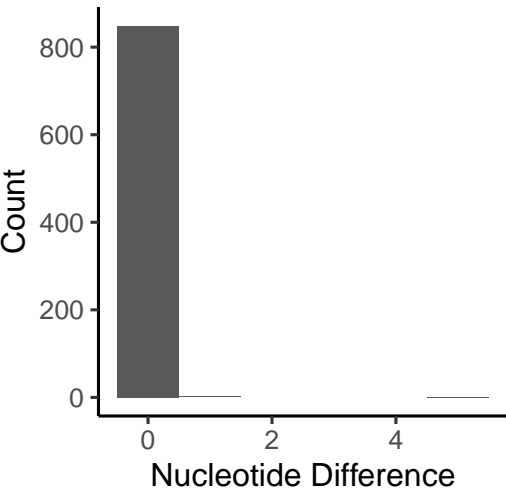
TRBV20-1\*ap01

6083 sequences assigned  
6035 (99.2%) exact matches, in which:  
5942 unique CDR3  
13 unique J



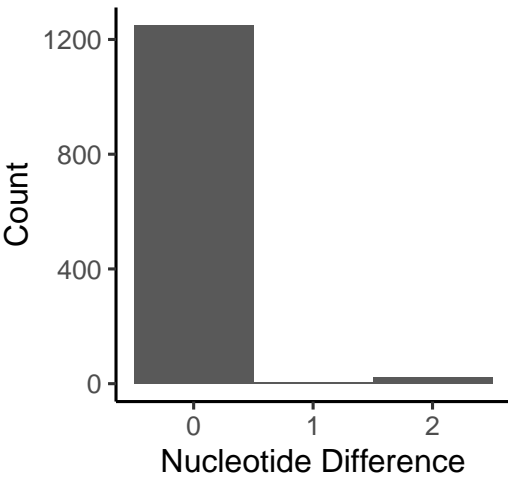
TRBV10-2\*ap01

852 sequences assigned  
849 (99.6%) exact matches, in which:  
836 unique CDR3  
13 unique J



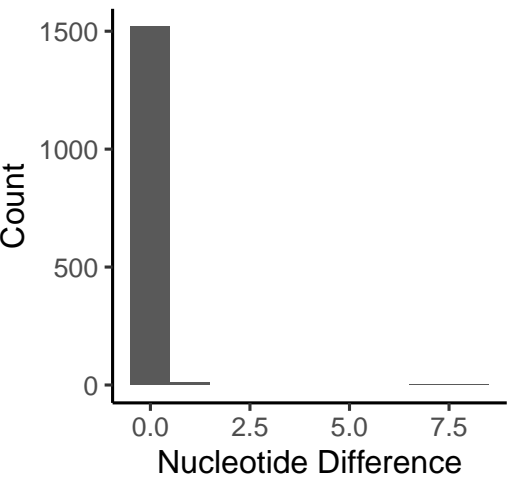
TRBV13\*ap01

1276 sequences assigned  
1249 (97.9%) exact matches, in which:  
1208 unique CDR3  
13 unique J



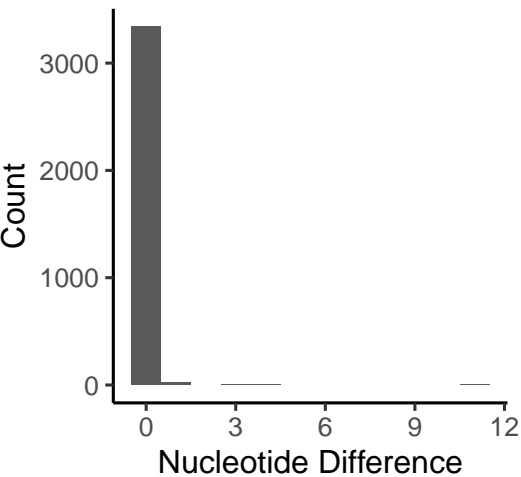
TRBV10-1\*ap01

1531 sequences assigned  
1519 (99.2%) exact matches, in which:  
1484 unique CDR3  
13 unique J



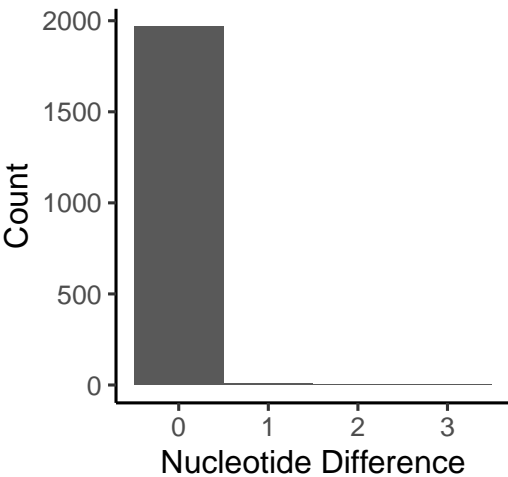
TRBV10-3\*ap01

3365 sequences assigned  
3339 (99.2%) exact matches, in which:  
3270 unique CDR3  
13 unique J



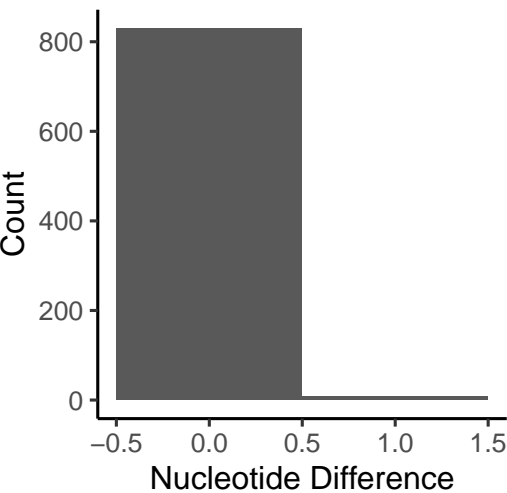
TRBV14\*ap01

1979 sequences assigned  
1967 (99.4%) exact matches, in which:  
1931 unique CDR3  
13 unique J



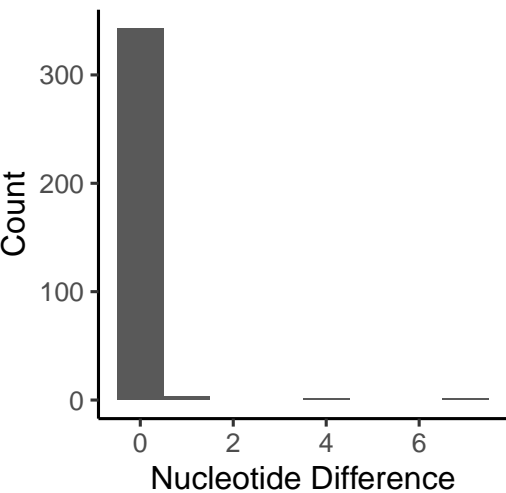
TRBV20-1\*ap02

838 sequences assigned  
830 (99%) exact matches, in which:  
818 unique CDR3  
13 unique J



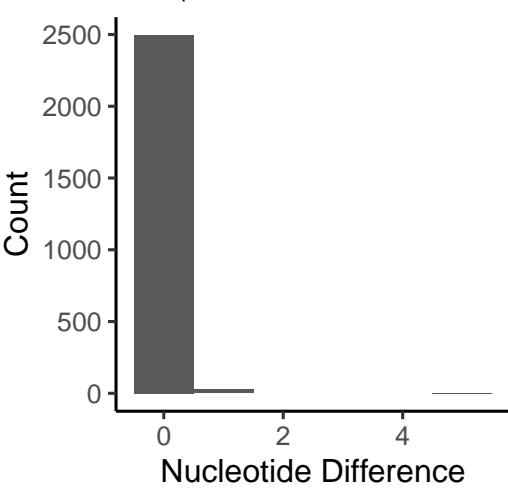
TRBV1\*ap01

348 sequences assigned  
343 (98.6%) exact matches, in which:  
334 unique CDR3  
13 unique J



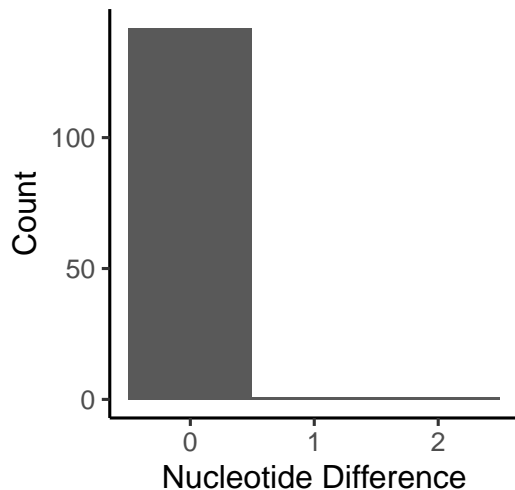
TRBV15\*ap02

2523 sequences assigned  
2496 (98.9%) exact matches, in which:  
2431 unique CDR3  
13 unique J



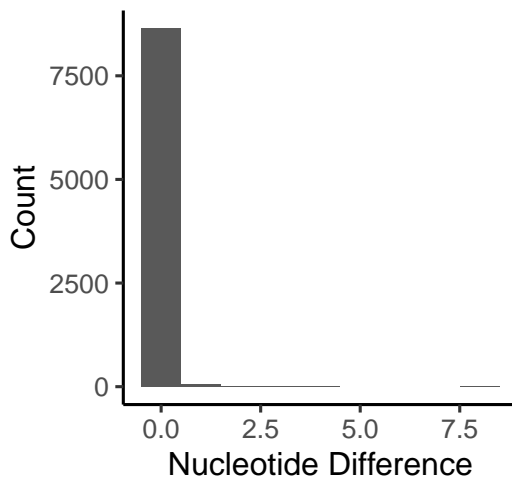
### TRBV16\*ap01

144 sequences assigned  
142 (98.6%) exact matches, in which:  
139 unique CDR3  
13 unique J



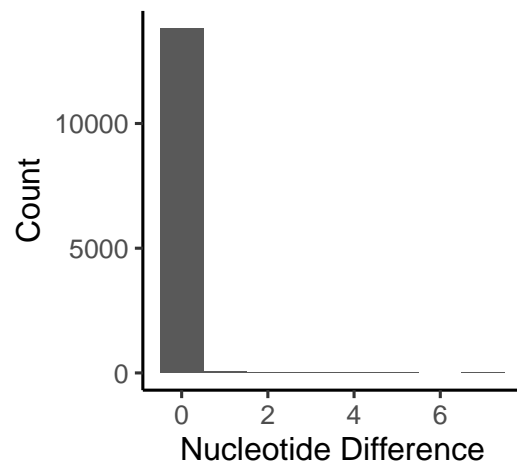
### TRBV19\*ap01

8711 sequences assigned  
8643 (99.2%) exact matches, in which:  
8560 unique CDR3  
13 unique J



### TRBV28\*ap01

13907 sequences assigned  
13822 (99.4%) exact matches, in which:  
13594 unique CDR3  
13 unique J



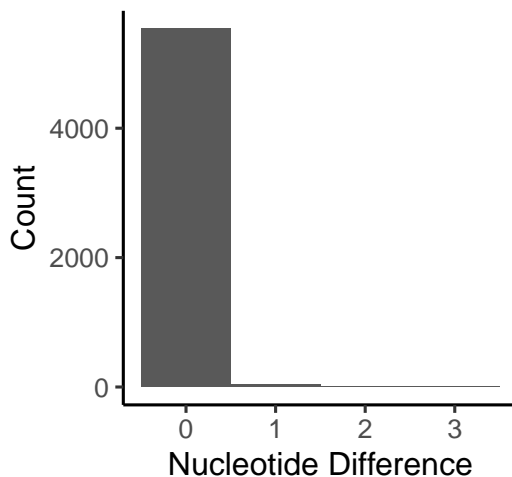
### TRBV17\*ap01

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



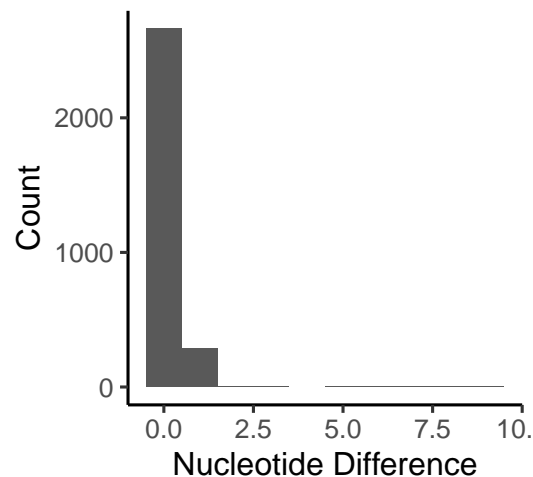
### TRBV2\*ap01

5584 sequences assigned  
5538 (99.2%) exact matches, in which:  
5436 unique CDR3  
13 unique J



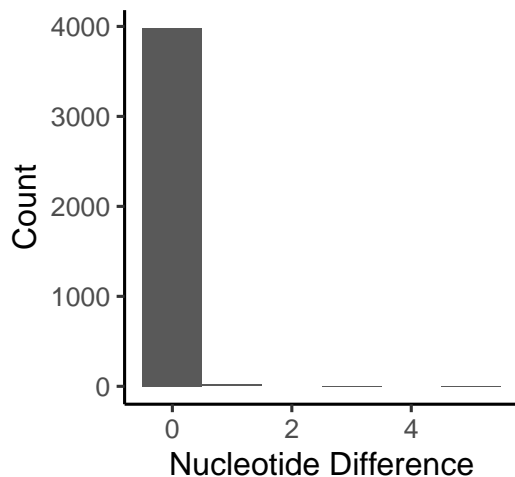
### TRBV30\*ap01

2959 sequences assigned  
2662 (90%) exact matches, in which:  
2587 unique CDR3  
13 unique J



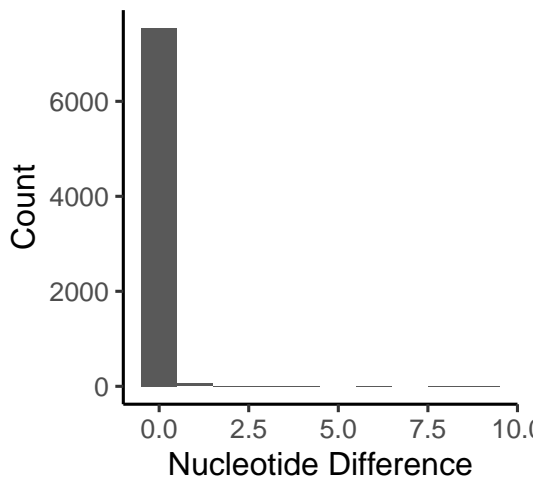
### TRBV18\*ap01

4004 sequences assigned  
3982 (99.5%) exact matches, in which:  
3953 unique CDR3  
13 unique J



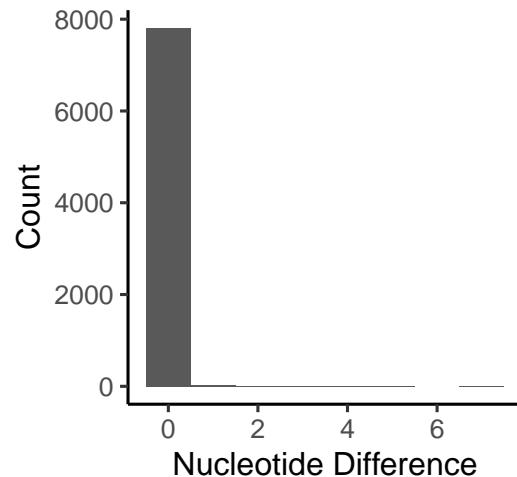
### TRBV27\*ap01

7620 sequences assigned  
7543 (99%) exact matches, in which:  
7392 unique CDR3  
13 unique J



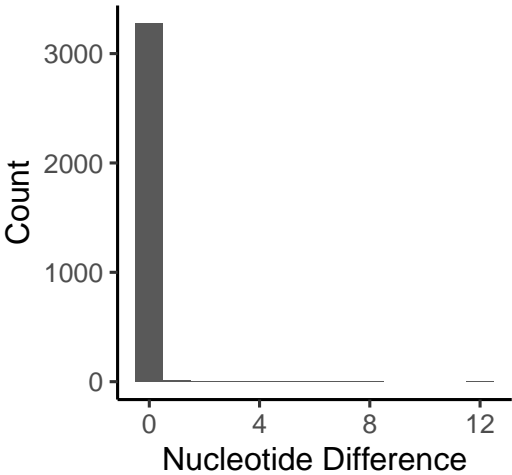
### TRBV9\*ap01

7850 sequences assigned  
7807 (99.5%) exact matches, in which:  
7707 unique CDR3  
13 unique J



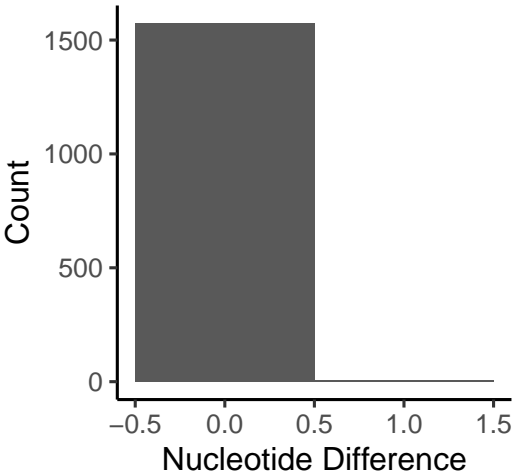
TRBV21-1\*ap01

3317 sequences assigned  
3276 (98.8%) exact matches, in which:  
3247 unique CDR3  
13 unique J



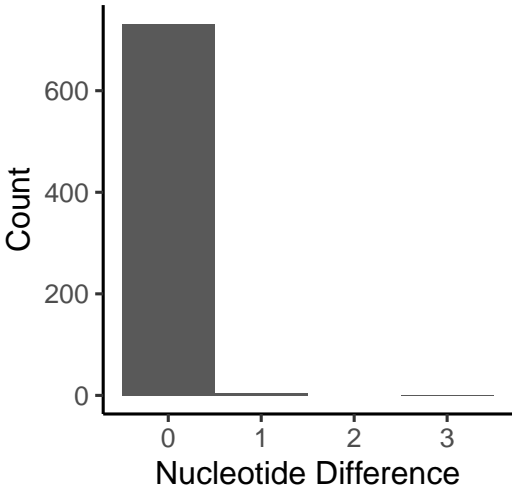
TRBV11-3\*ap01

1580 sequences assigned  
1573 (99.6%) exact matches, in which:  
1561 unique CDR3  
13 unique J



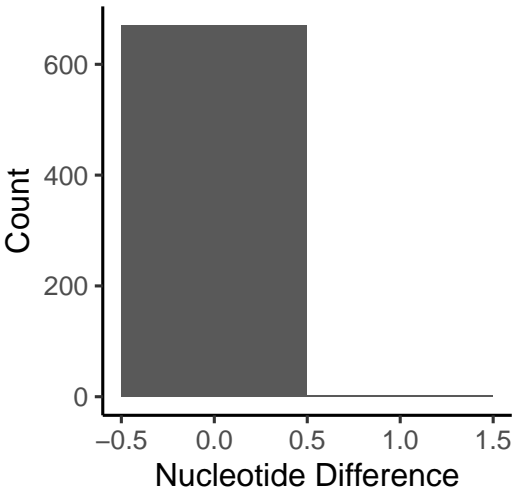
TRBV12-5\*ap01

738 sequences assigned  
732 (99.2%) exact matches, in which:  
724 unique CDR3  
13 unique J



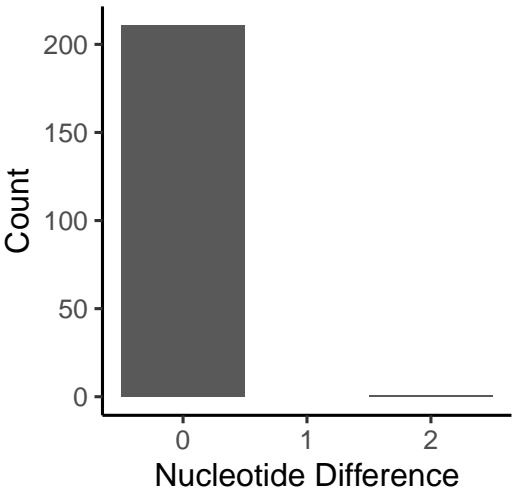
TRBV11-1\*ap01

673 sequences assigned  
671 (99.7%) exact matches, in which:  
669 unique CDR3  
12 unique J



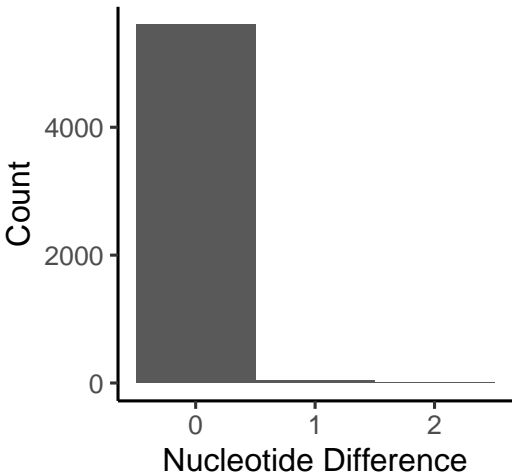
TRBV12-1\*ap01

212 sequences assigned  
211 (99.5%) exact matches, in which:  
209 unique CDR3  
13 unique J



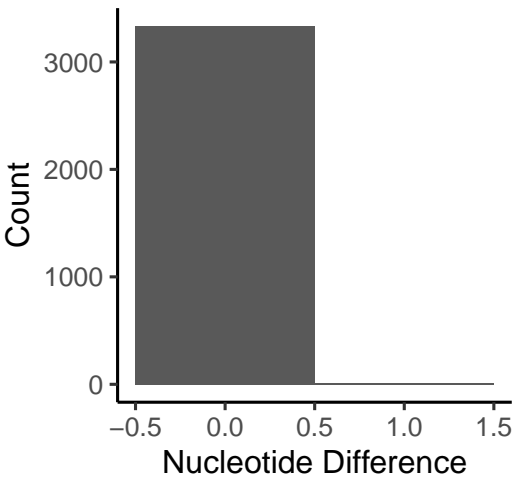
TRBV12-34\*ap01

5650 sequences assigned  
5604 (99.2%) exact matches, in which:  
5492 unique CDR3  
13 unique J



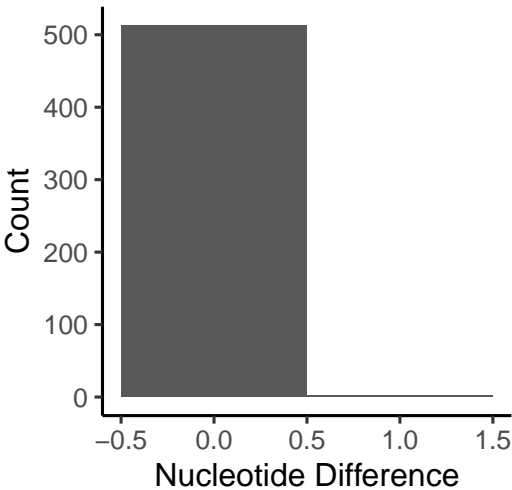
TRBV11-2\*ap01

3345 sequences assigned  
3334 (99.7%) exact matches, in which:  
3310 unique CDR3  
13 unique J



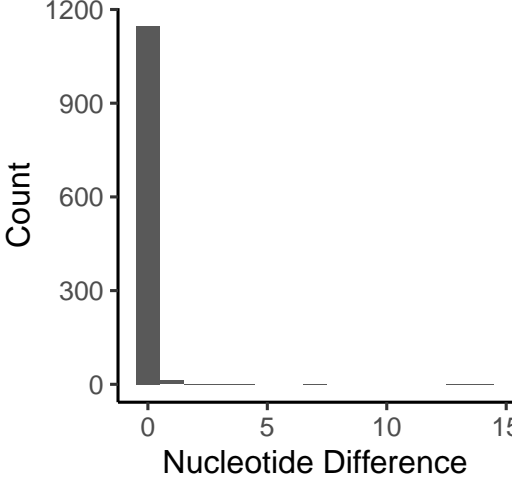
TRBV12-2\*ap01

515 sequences assigned  
513 (99.6%) exact matches, in which:  
504 unique CDR3  
13 unique J



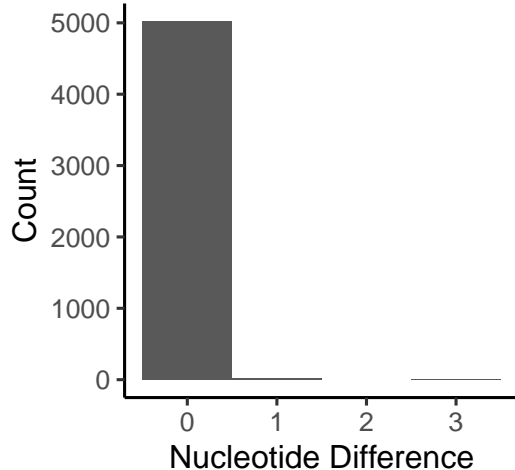
TRBV23-1\*ap01

1165 sequences assigned  
1147 (98.5%) exact matches, in which:  
1131 unique CDR3  
13 unique J



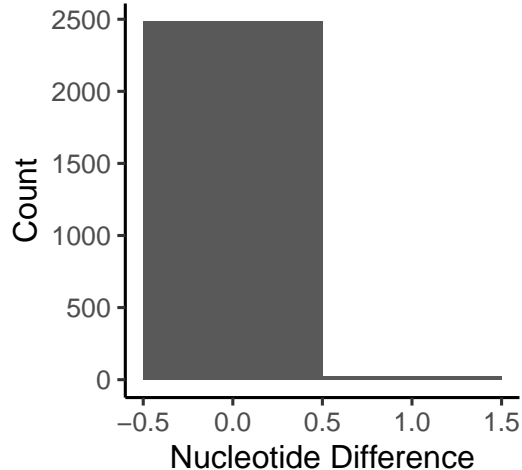
### TRBV3-12\*ap01

5045 sequences assigned  
5020 (99.5%) exact matches, in which:  
4969 unique CDR3  
13 unique J



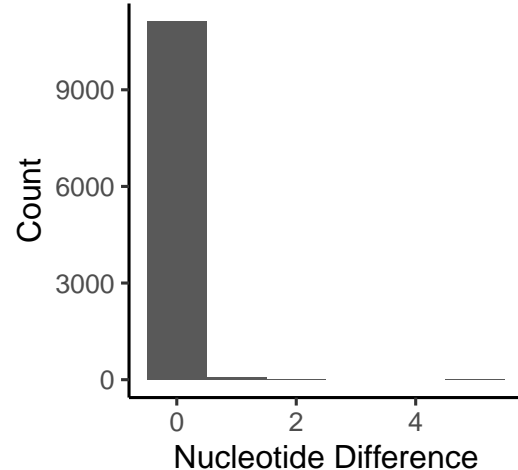
### TRBV4-2\*ap01

2507 sequences assigned  
2485 (99.1%) exact matches, in which:  
2422 unique CDR3  
13 unique J



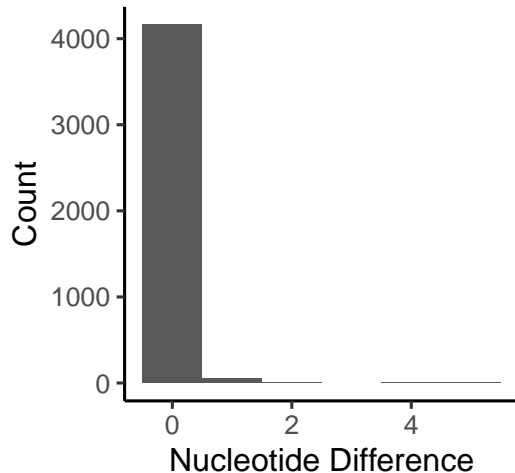
### TRBV5-1\*ap01

11212 sequences assigned  
11123 (99.2%) exact matches, in which:  
10849 unique CDR3  
13 unique J



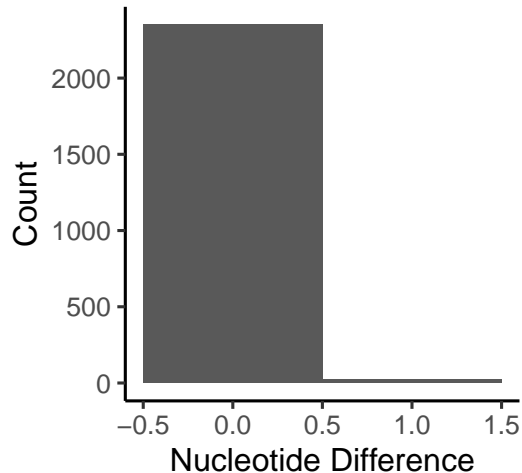
### TRBV24-1\*ap01

4216 sequences assigned  
4162 (98.7%) exact matches, in which:  
4078 unique CDR3  
14 unique J



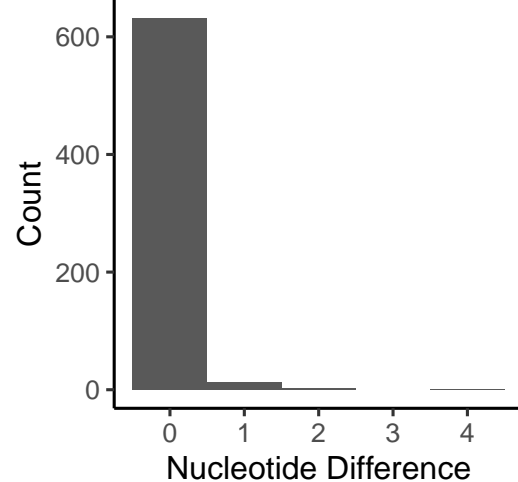
### TRBV4-3\*ap01

2372 sequences assigned  
2350 (99.1%) exact matches, in which:  
2292 unique CDR3  
13 unique J



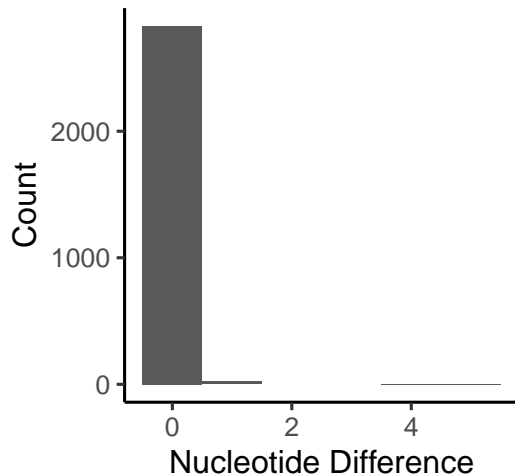
### TRBV5-3\*ap01

647 sequences assigned  
632 (97.7%) exact matches, in which:  
620 unique CDR3  
13 unique J



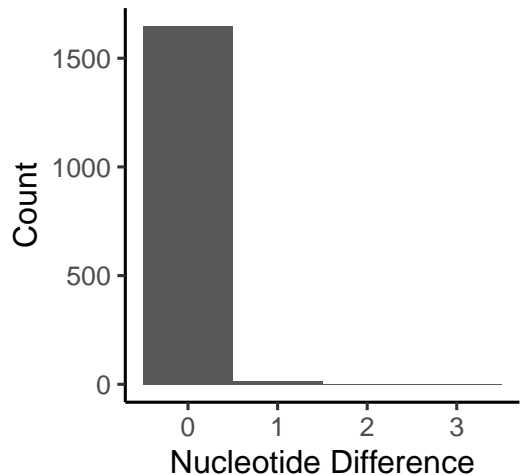
### TRBV4-1\*ap01

2854 sequences assigned  
2831 (99.2%) exact matches, in which:  
2759 unique CDR3  
13 unique J



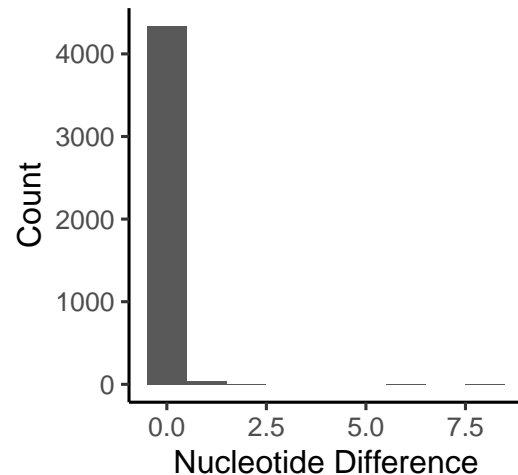
### TRBV25-1\*ap01

1666 sequences assigned  
1648 (98.9%) exact matches, in which:  
1599 unique CDR3  
13 unique J



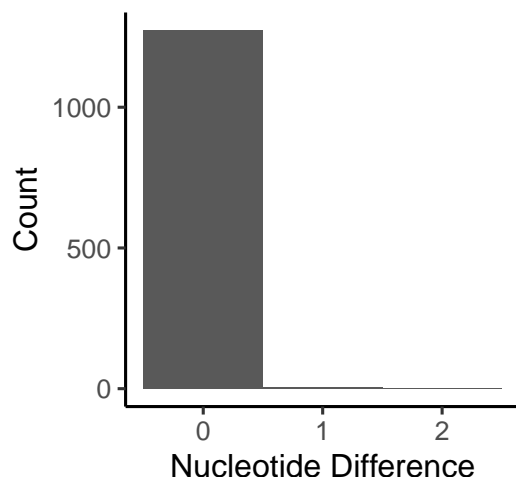
### TRBV5-4\*ap01

4387 sequences assigned  
4337 (98.9%) exact matches, in which:  
4227 unique CDR3  
13 unique J



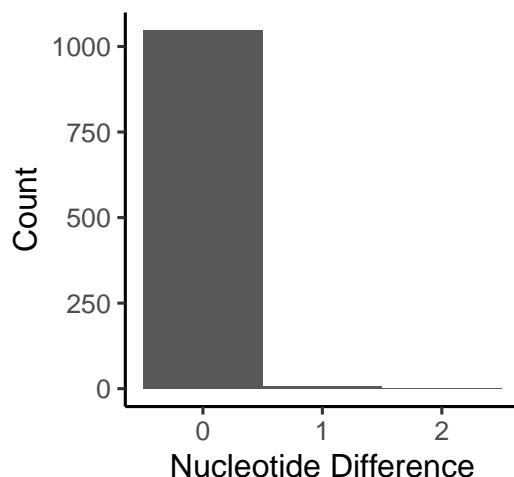
### TRBV5-5\*ap01

1280 sequences assigned  
1273 (99.5%) exact matches, in which:  
1268 unique CDR3  
13 unique J



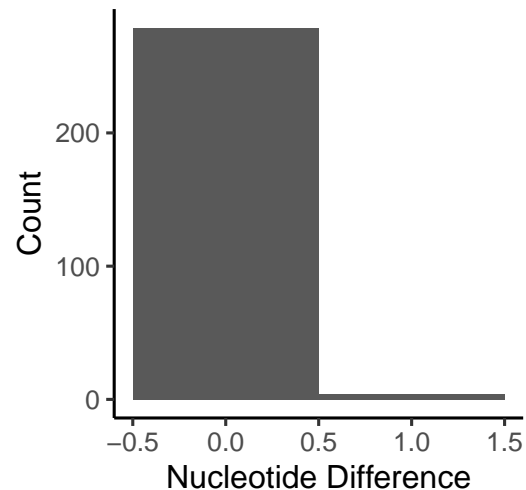
### TRBV5-8\*ap01

1054 sequences assigned  
1047 (99.3%) exact matches, in which:  
1026 unique CDR3  
13 unique J



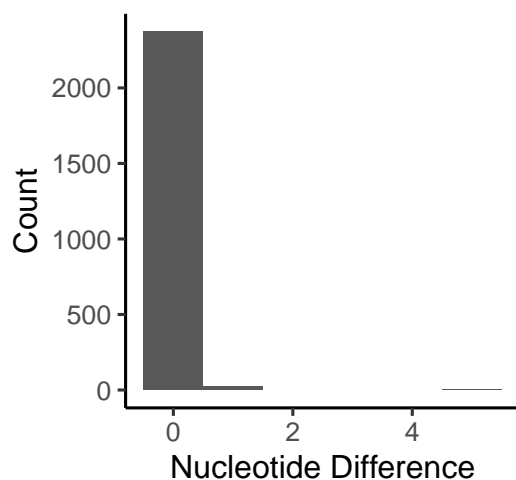
### TRBV6-7\*ap01

283 sequences assigned  
279 (98.6%) exact matches, in which:  
269 unique CDR3  
13 unique J



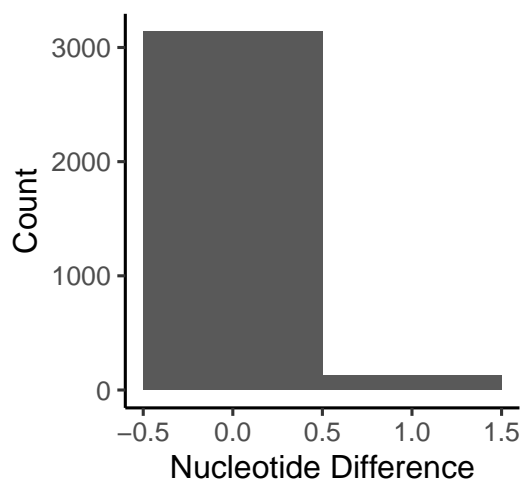
### TRBV5-6\*ap01

2399 sequences assigned  
2372 (98.9%) exact matches, in which:  
2297 unique CDR3  
13 unique J



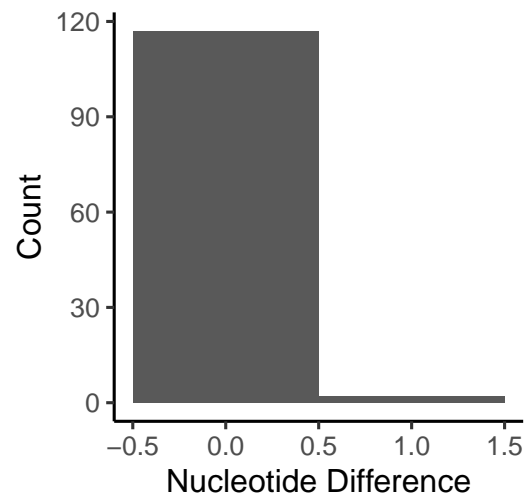
### TRBV6-1\*ap01

3268 sequences assigned  
3138 (96%) exact matches, in which:  
3057 unique CDR3  
13 unique J



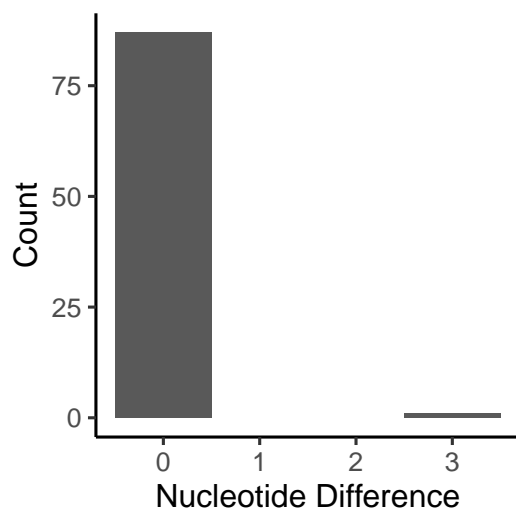
### TRBV6-8\*ap01

119 sequences assigned  
117 (98.3%) exact matches, in which:  
112 unique CDR3  
13 unique J



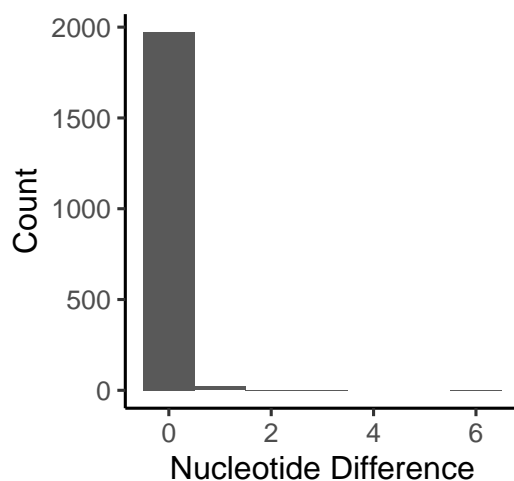
### TRBV5-7\*ap01

88 sequences assigned  
87 (98.9%) exact matches, in which:  
84 unique CDR3  
12 unique J



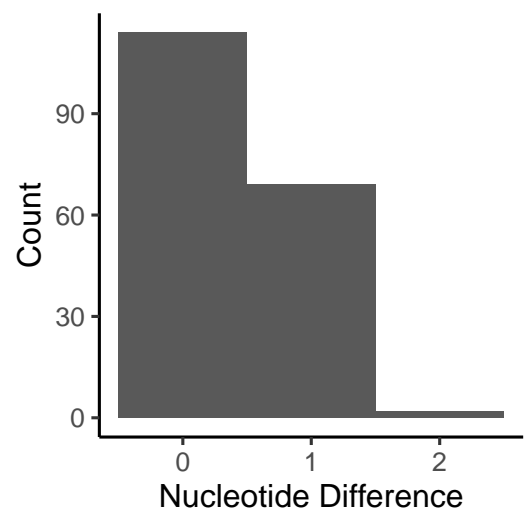
### TRBV6-4\*ap01

2000 sequences assigned  
1973 (98.7%) exact matches, in which:  
1938 unique CDR3  
13 unique J



### TRBV6-9\*ap01

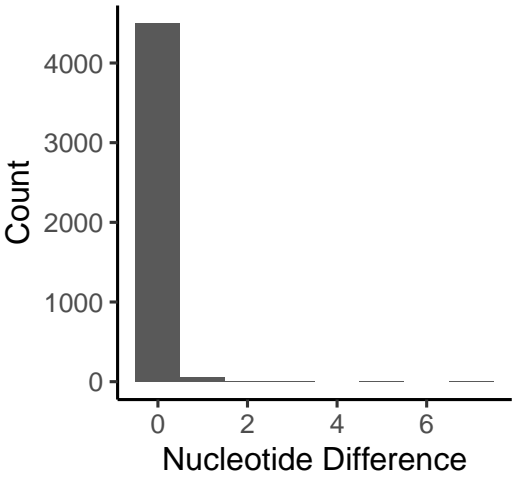
185 sequences assigned  
114 (61.6%) exact matches, in which:  
110 unique CDR3  
11 unique J





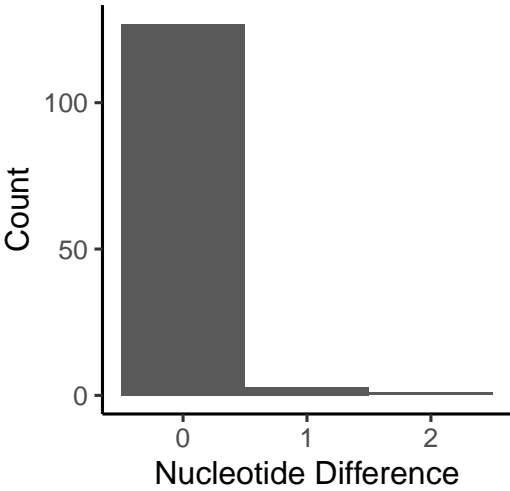
TRBV6-23\*ap01

4554 sequences assigned  
4497 (98.7%) exact matches, in which:  
4355 unique CDR3  
13 unique J



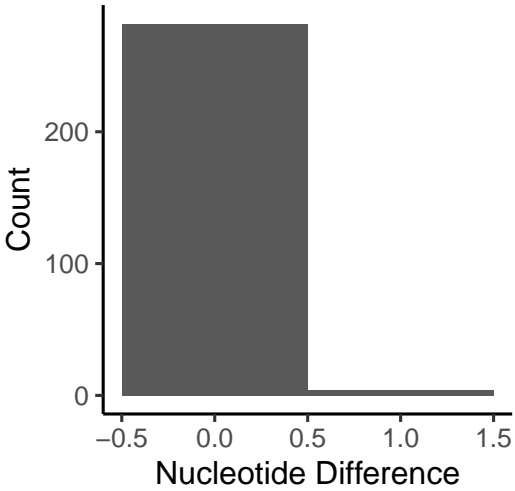
TRBV7-1\*ap01\_G291C\_

131 sequences assigned  
127 (96.9%) exact matches, in which:  
127 unique CDR3  
13 unique J



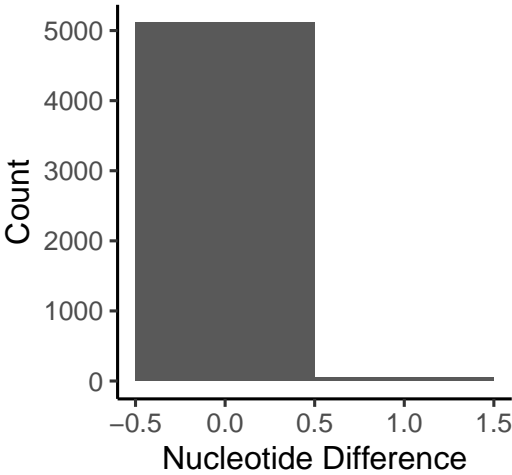
TRBV7-4\*ap01

286 sequences assigned  
282 (98.6%) exact matches, in which:  
275 unique CDR3  
13 unique J



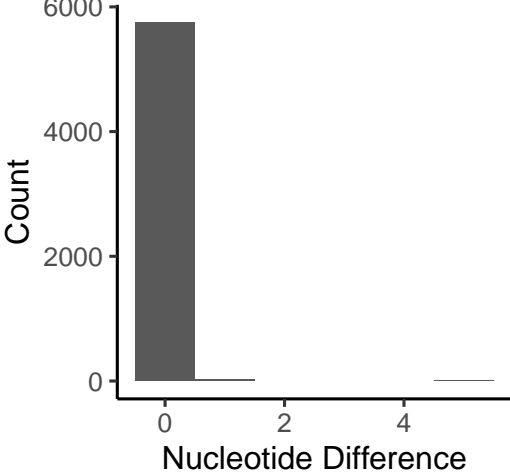
TRBV6-56\*ap01

5162 sequences assigned  
5112 (99%) exact matches, in which:  
4969 unique CDR3  
13 unique J



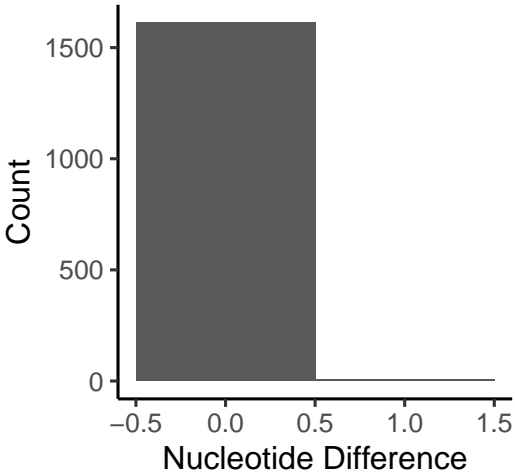
TRBV7-2\*ap01

5772 sequences assigned  
5746 (99.5%) exact matches, in which:  
5654 unique CDR3  
13 unique J



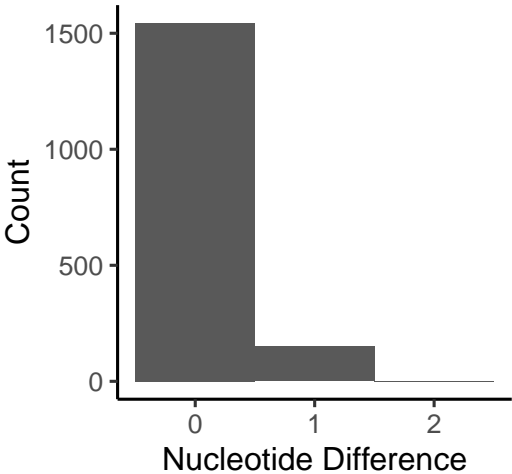
TRBV7-6\*ap01

1619 sequences assigned  
1612 (99.6%) exact matches, in which:  
1577 unique CDR3  
13 unique J



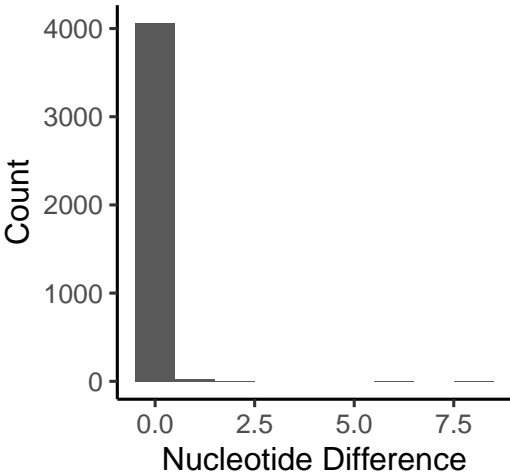
TRBV6-56\*ap02

1695 sequences assigned  
1544 (91.1%) exact matches, in which:  
1502 unique CDR3  
13 unique J



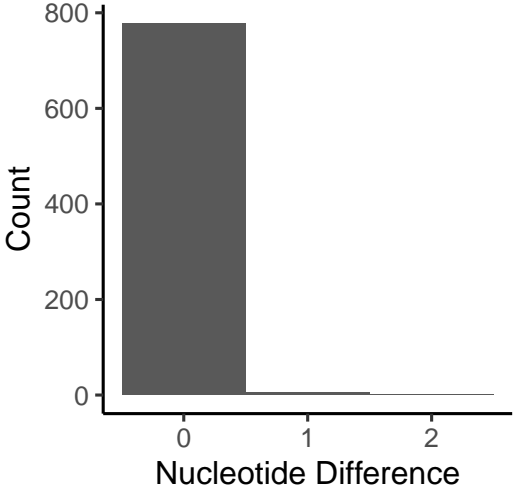
TRBV7-3\*ap01

4091 sequences assigned  
4062 (99.3%) exact matches, in which:  
4010 unique CDR3  
13 unique J



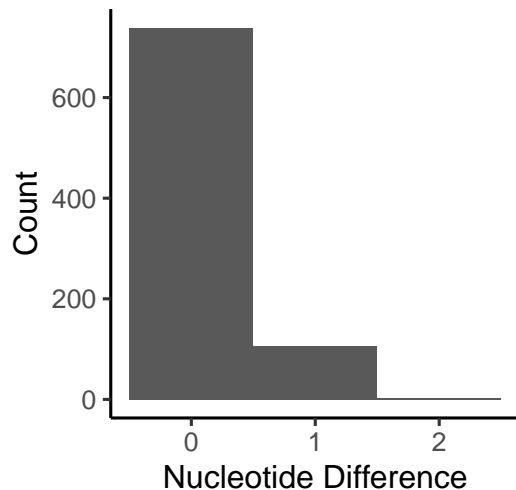
TRBV7-7\*ap01\_C315T

785 sequences assigned  
778 (99.1%) exact matches, in which:  
760 unique CDR3  
13 unique J



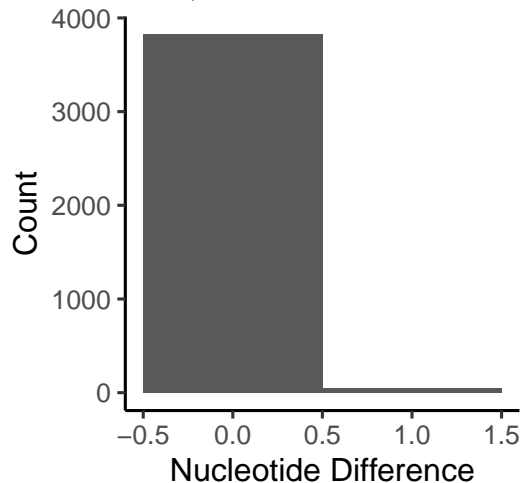
### TRBV7-8\*ap01

848 sequences assigned  
739 (87.1%) exact matches, in which:  
730 unique CDR3  
13 unique J



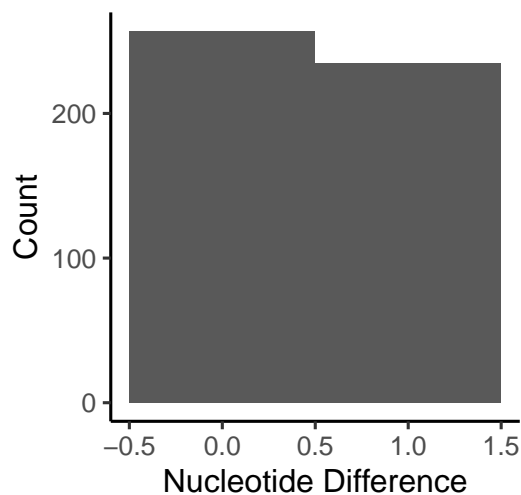
### TRBV29-1\*ap01

3876 sequences assigned  
3824 (98.7%) exact matches, in which:  
3697 unique CDR3  
13 unique J



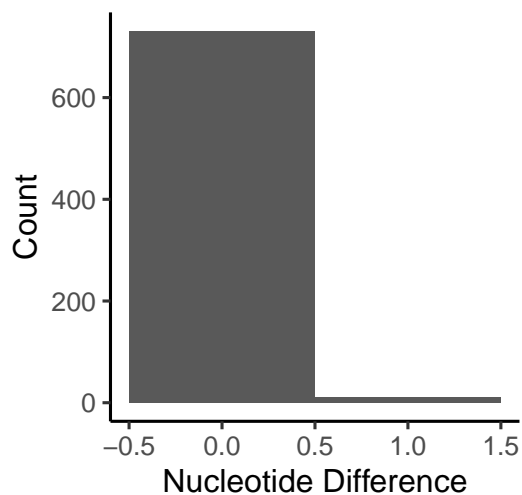
### TRBV7-8\*ap03

492 sequences assigned  
257 (52.2%) exact matches, in which:  
254 unique CDR3  
13 unique J



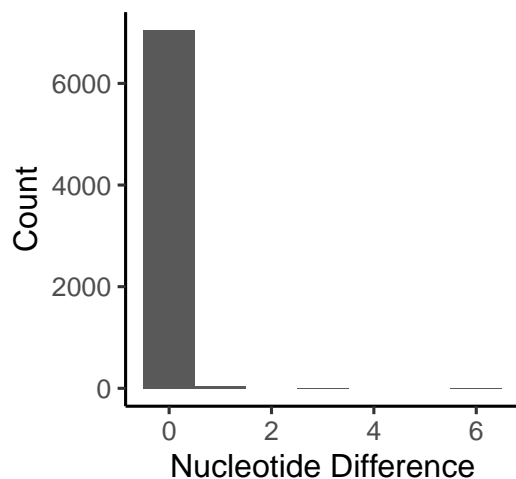
### TRBV29-1\*ap02

741 sequences assigned  
731 (98.7%) exact matches, in which:  
710 unique CDR3  
13 unique J

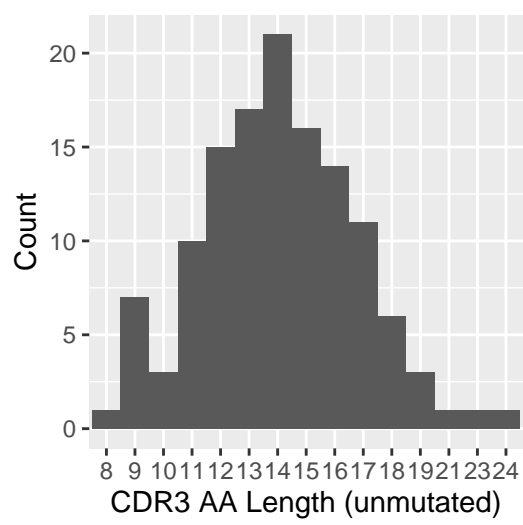


### TRBV7-9\*ap01

7097 sequences assigned  
7050 (99.3%) exact matches, in which:  
6945 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

