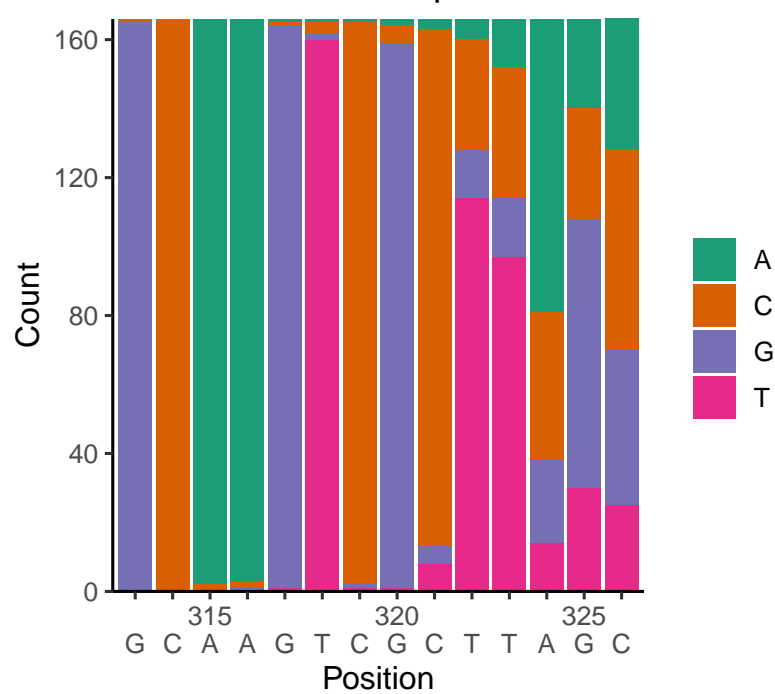
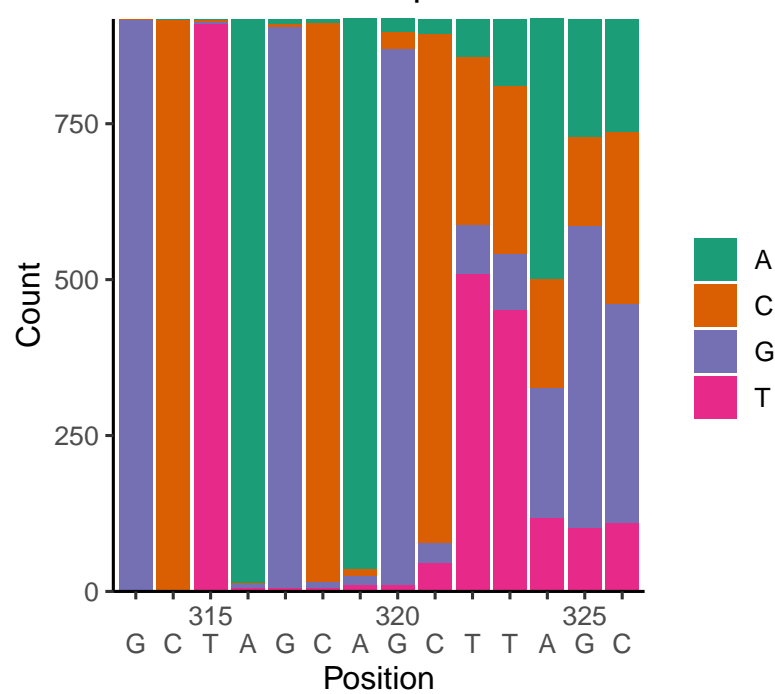


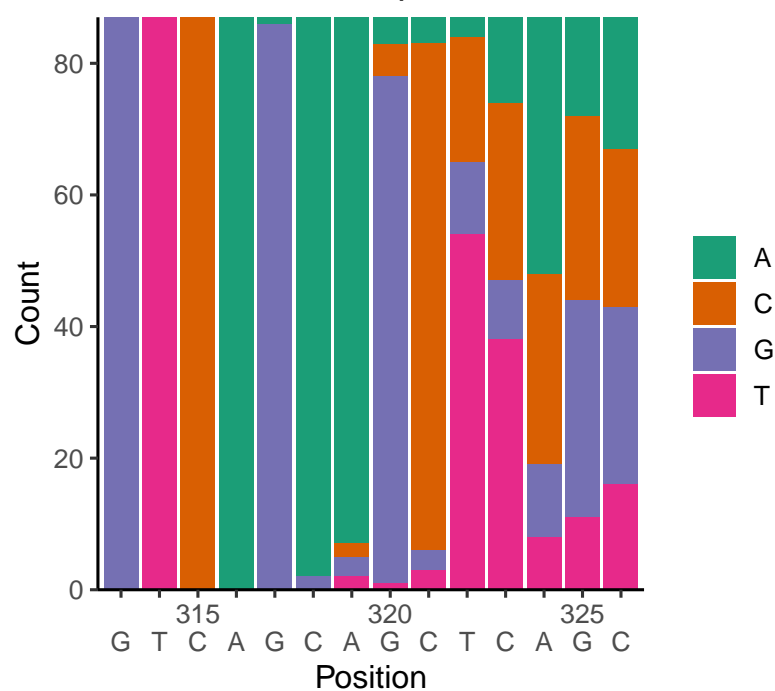
Gene TRBV12-2\*ap01\_G301A



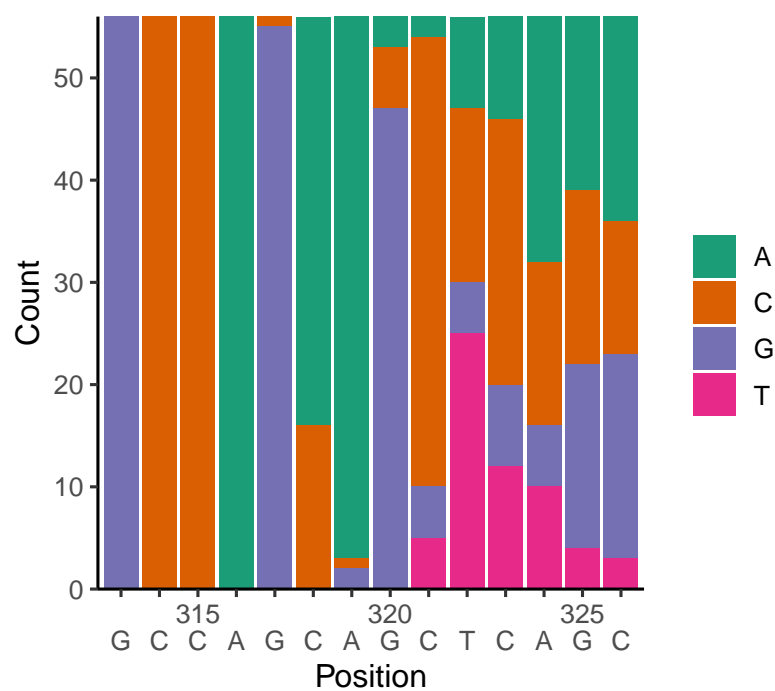
Gene TRBV7-7\*ap01\_C315T



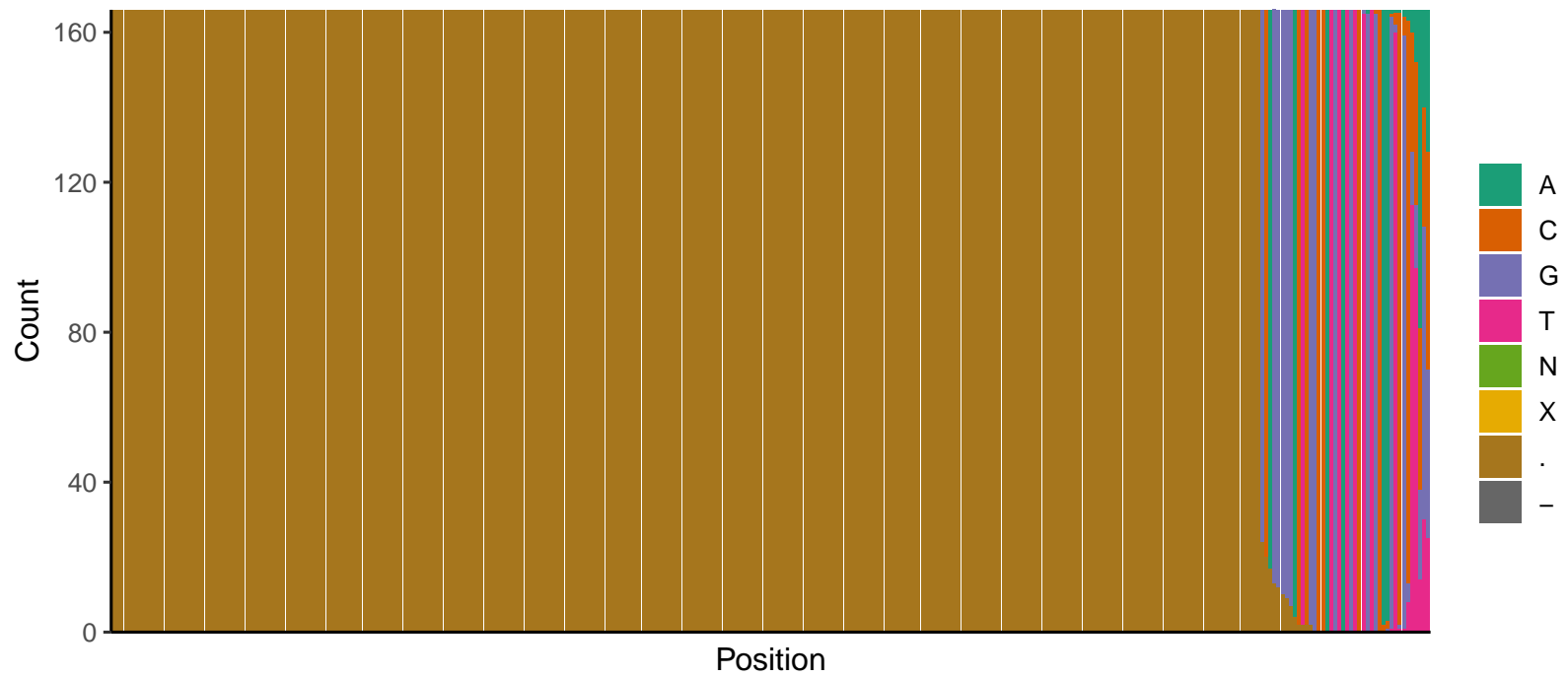
Gene TRBV7-1\*ap01\_T296C\_C314T



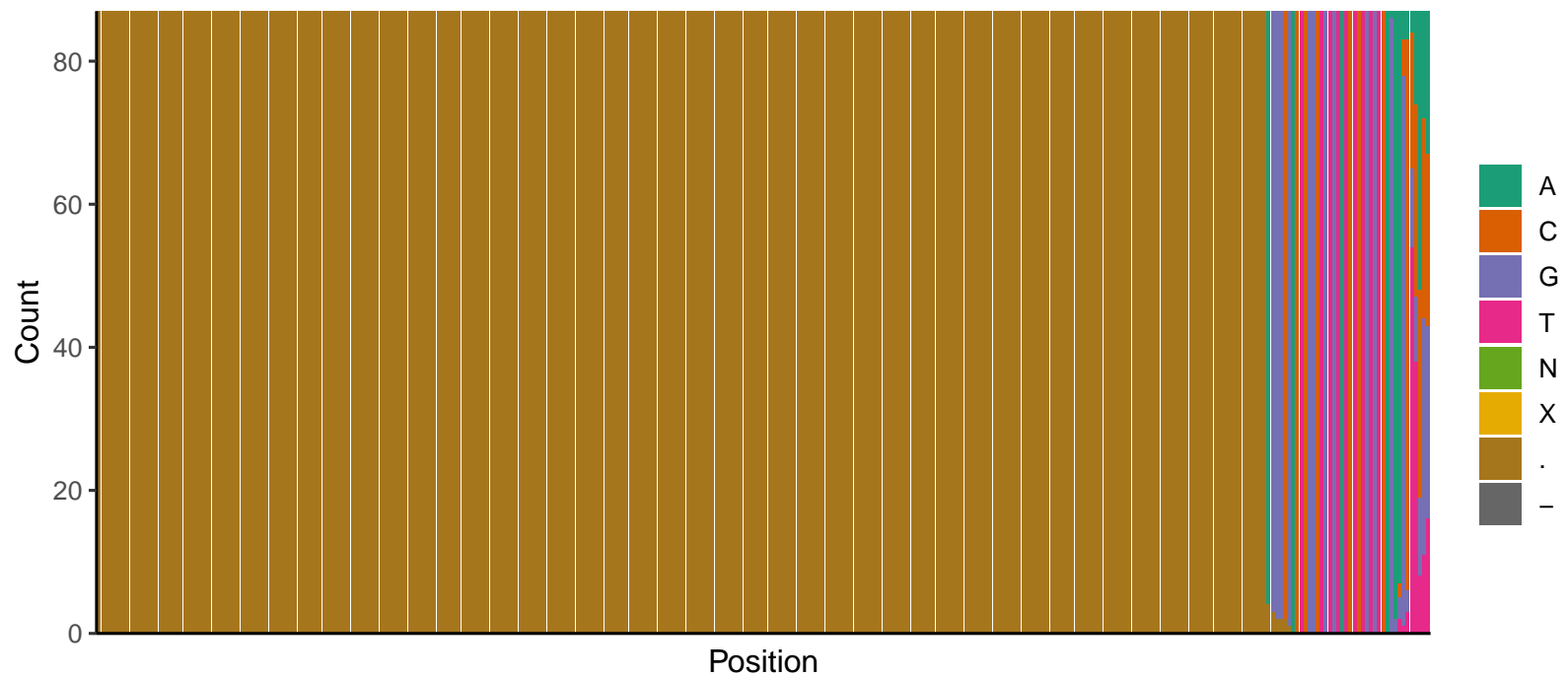
Gene TRBV7-1\*ap01\_T296C



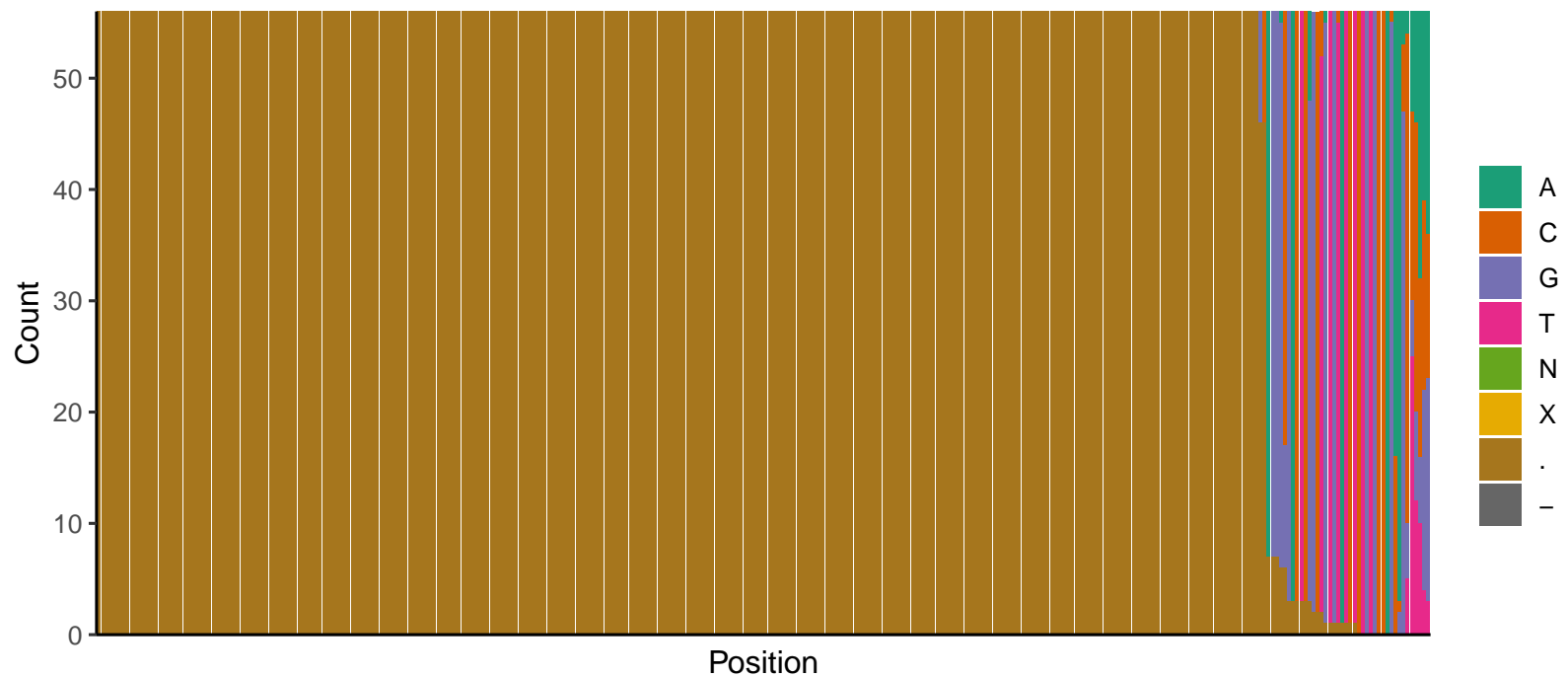
Gene TRBV12-2\*ap01\_G301A



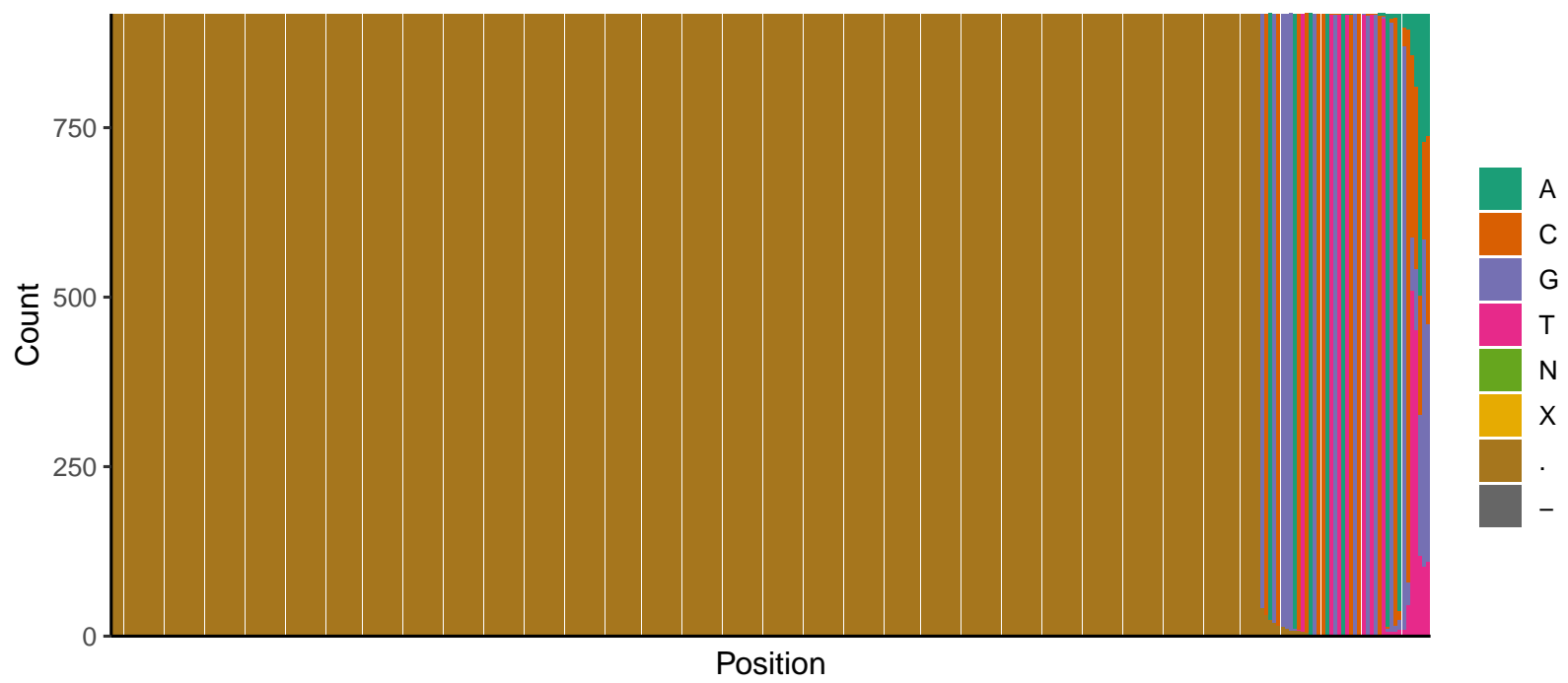
Gene TRBV7-1\*ap01\_T296C\_C314T



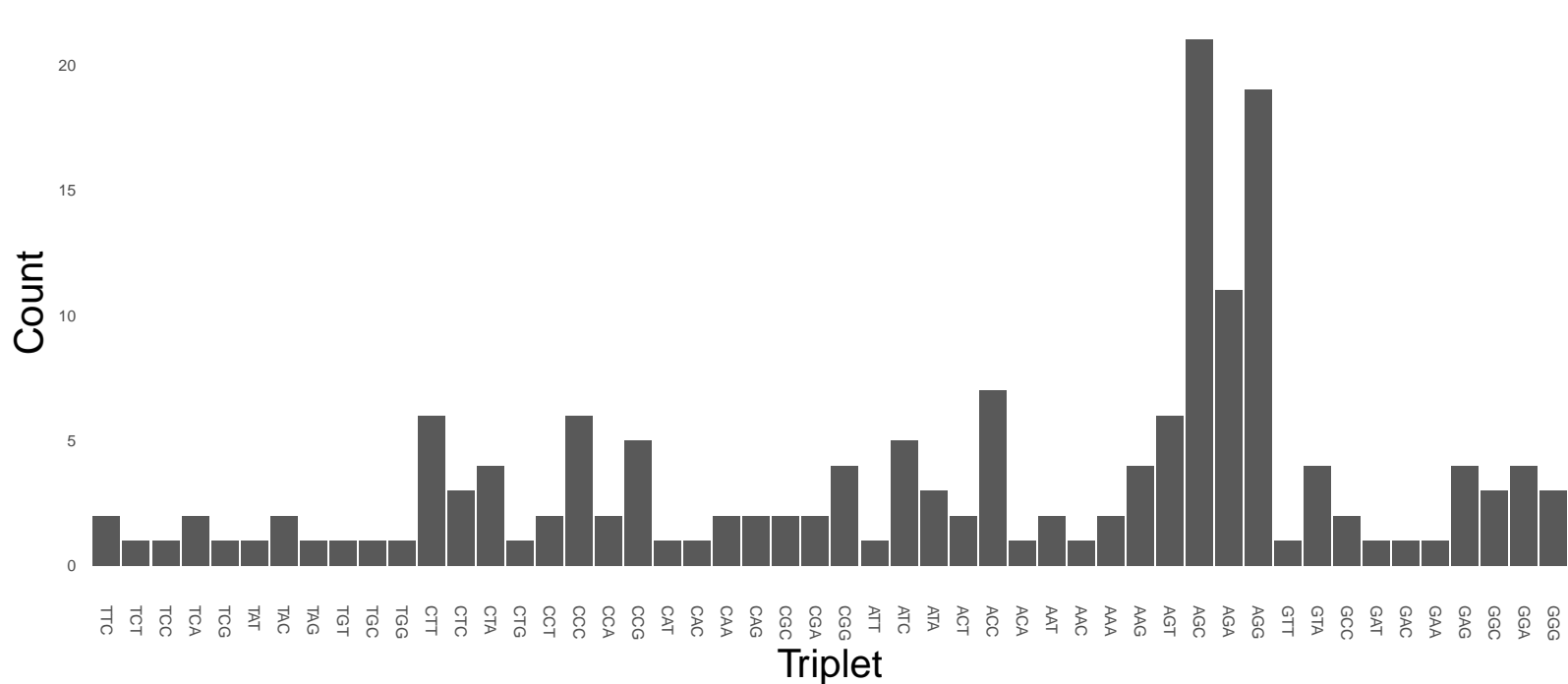
Gene TRBV7-1\*ap01\_T296C



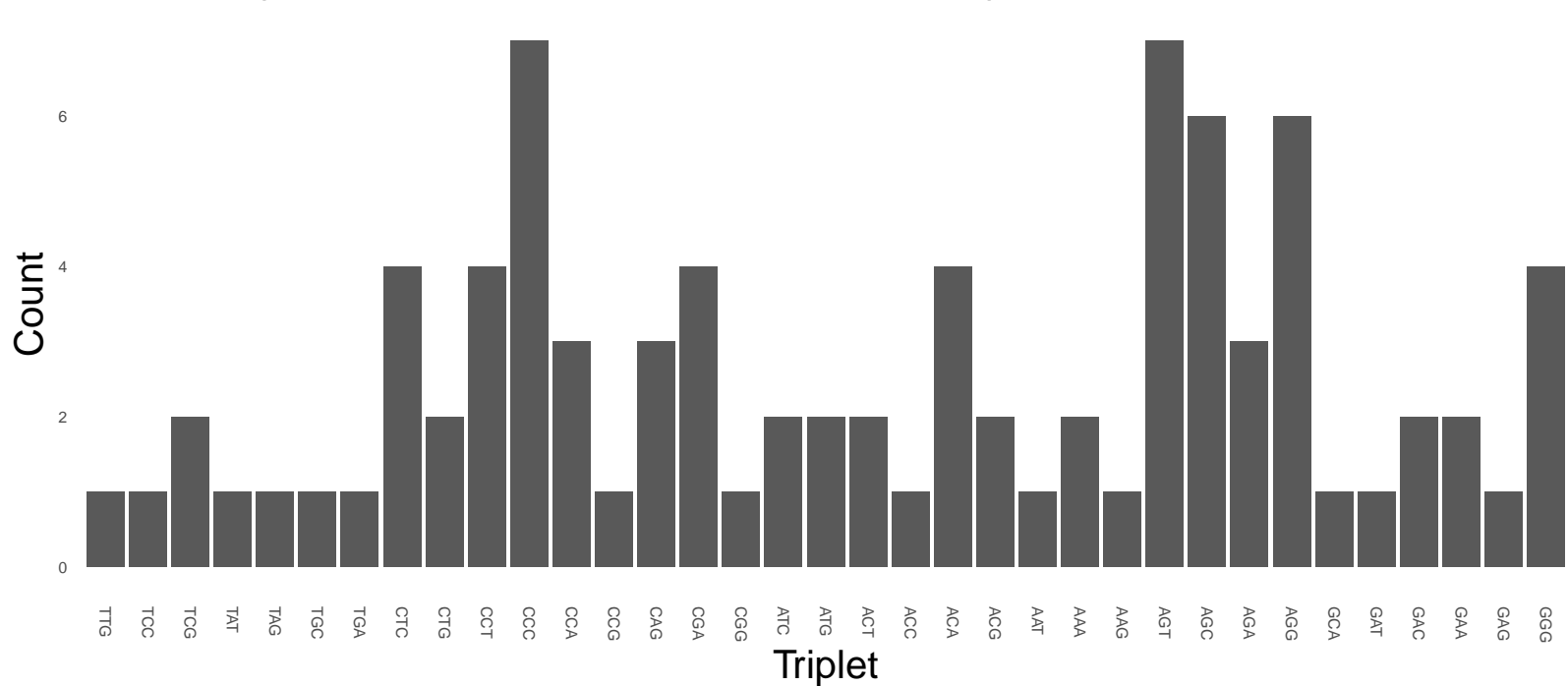
Gene TRBV7-7\*ap01\_C315T



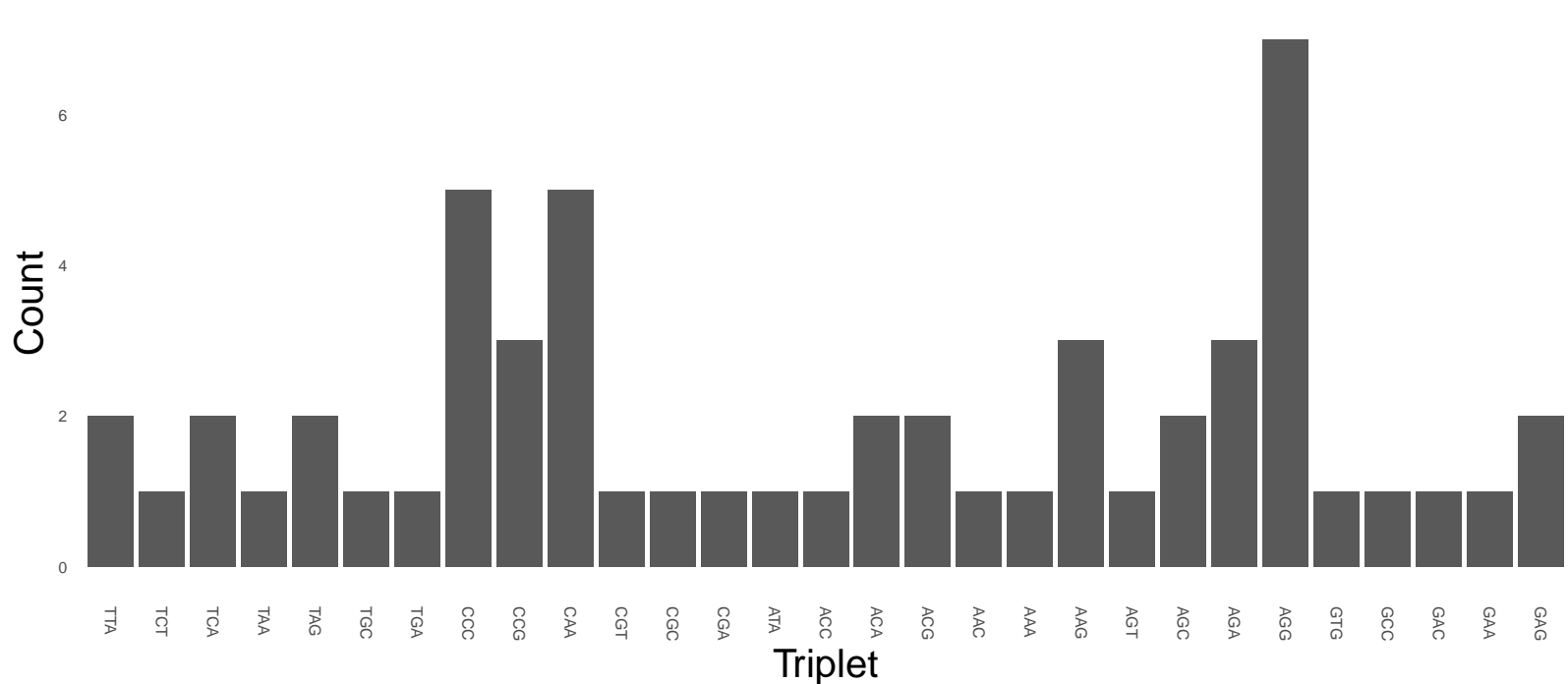
TRBV12-2\*ap01\_G301A- Final 3 nucleotides as a triplet



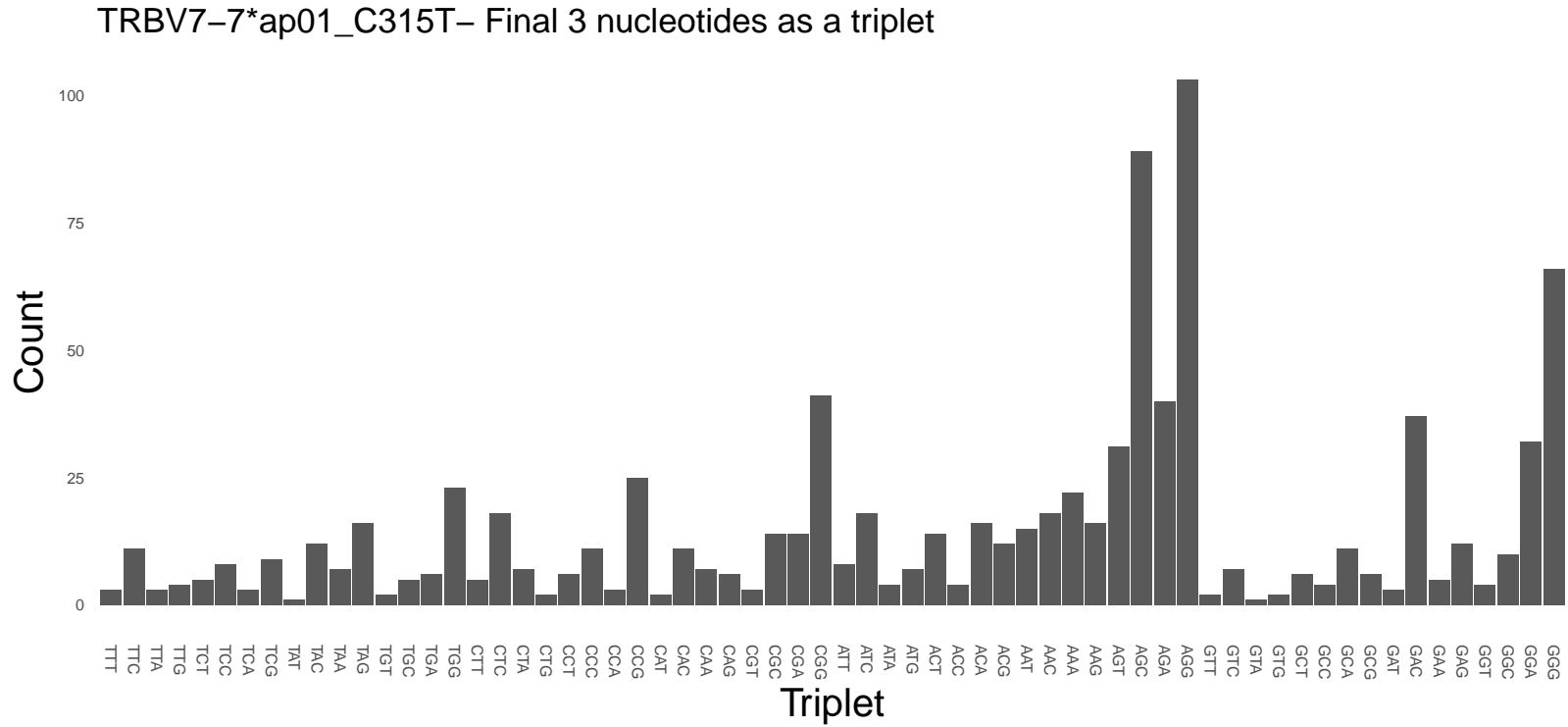
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

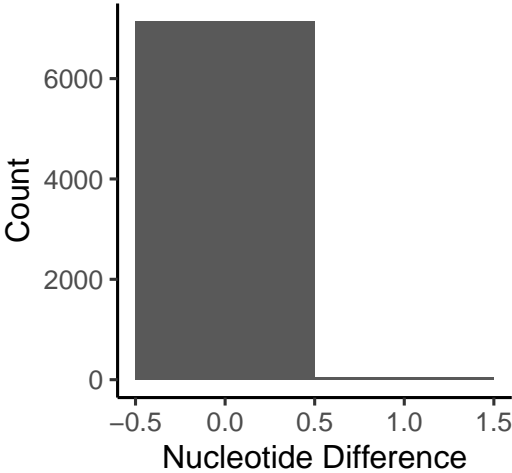


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



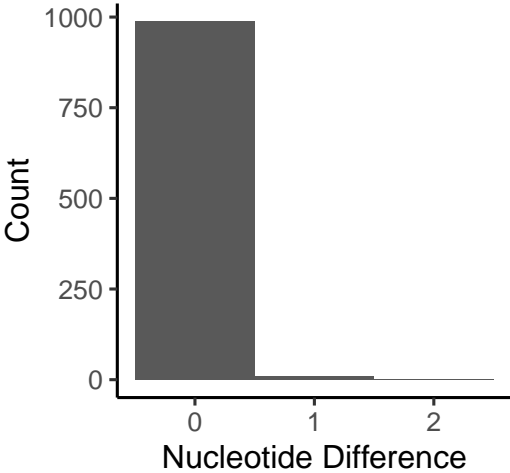
TRBV20-1\*ap01

7191 sequences assigned  
7140 (99.3%) exact matches, in which:  
7097 unique CDR3  
13 unique J



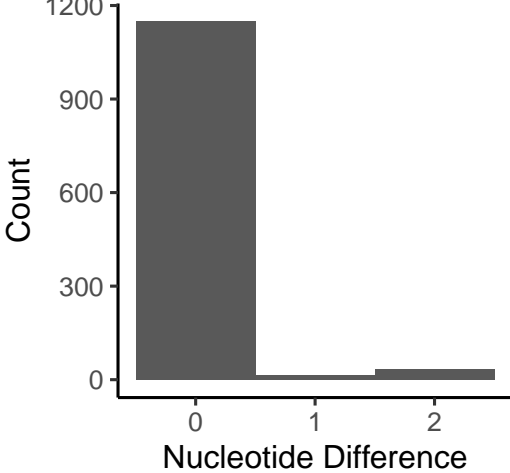
TRBV10-2\*ap01

999 sequences assigned  
988 (98.9%) exact matches, in which:  
978 unique CDR3  
13 unique J



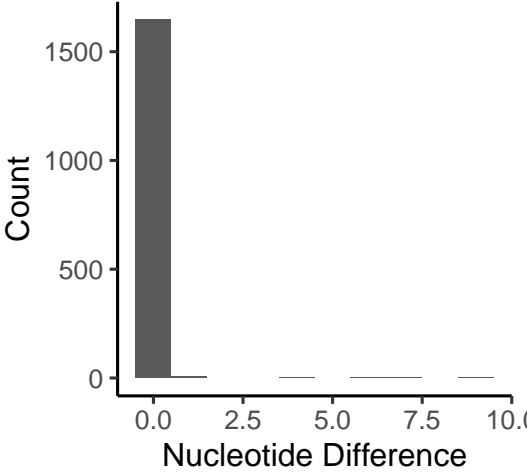
TRBV13\*ap01

1198 sequences assigned  
1149 (95.9%) exact matches, in which:  
1134 unique CDR3  
13 unique J



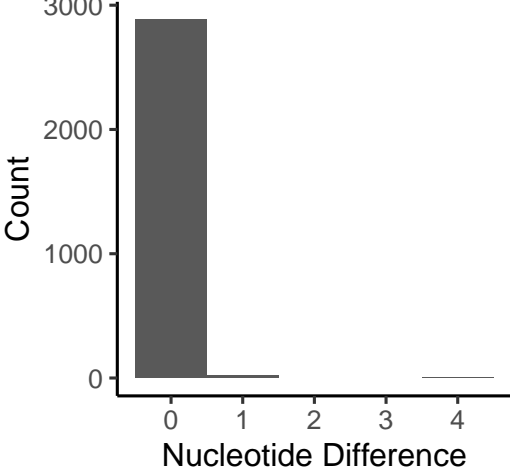
TRBV10-1\*ap01

1661 sequences assigned  
1647 (99.2%) exact matches, in which:  
1638 unique CDR3  
13 unique J



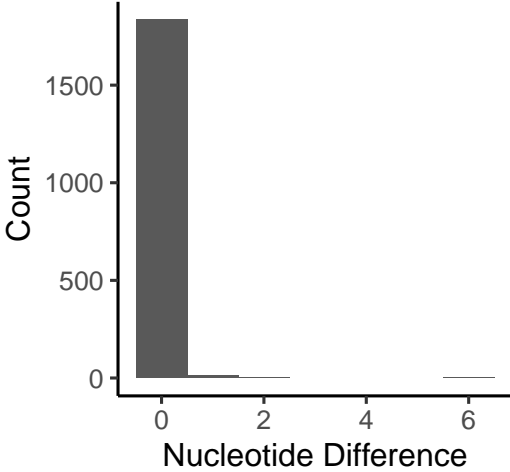
TRBV10-3\*ap01

2903 sequences assigned  
2883 (99.3%) exact matches, in which:  
2857 unique CDR3  
13 unique J



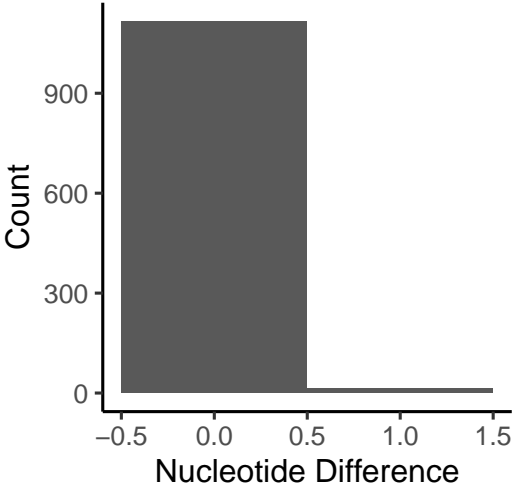
TRBV14\*ap01

1852 sequences assigned  
1835 (99.1%) exact matches, in which:  
1823 unique CDR3  
13 unique J



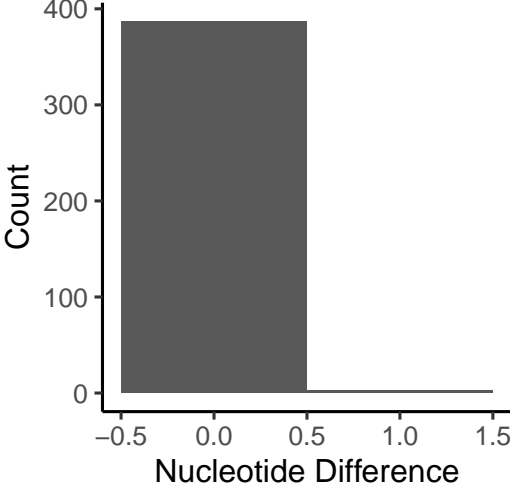
TRBV20-1\*ap02

1129 sequences assigned  
1116 (98.8%) exact matches, in which:  
1107 unique CDR3  
13 unique J



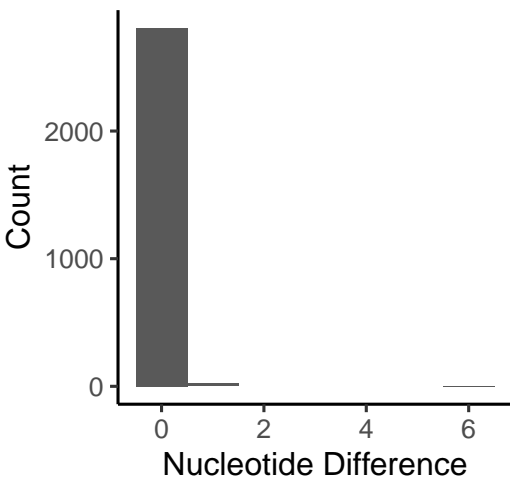
TRBV1\*ap01

390 sequences assigned  
387 (99.2%) exact matches, in which:  
381 unique CDR3  
13 unique J



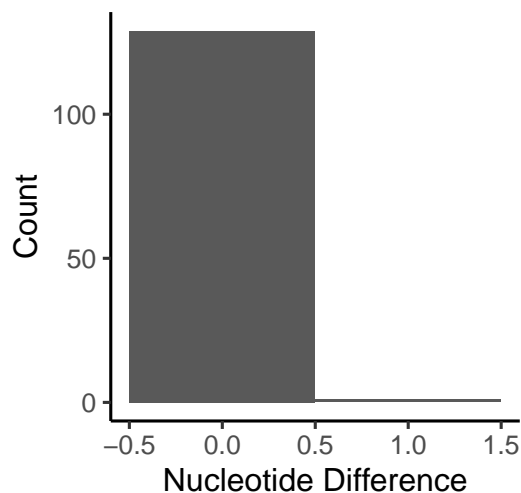
TRBV15\*ap02

2829 sequences assigned  
2807 (99.2%) exact matches, in which:  
2781 unique CDR3  
13 unique J



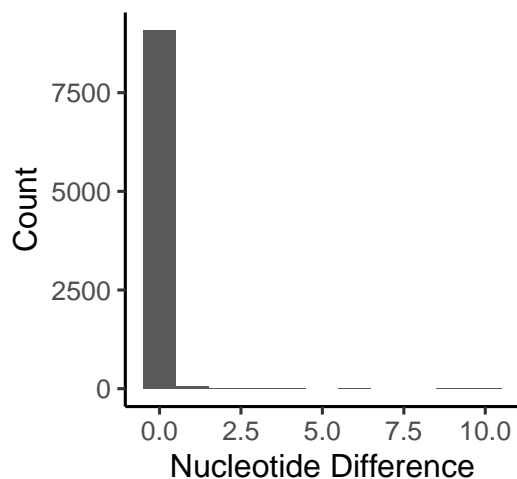
### TRBV16\*ap01

130 sequences assigned  
129 (99.2%) exact matches, in which:  
129 unique CDR3  
12 unique J



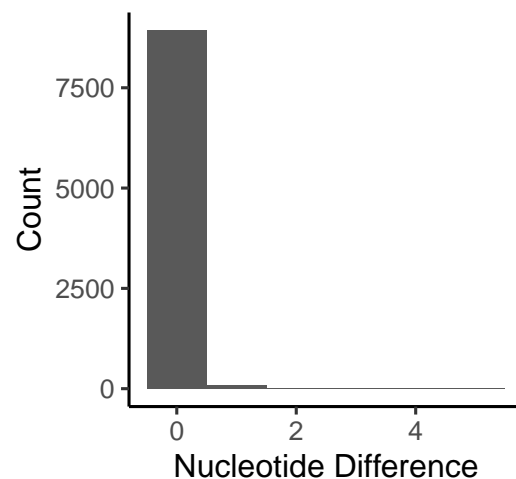
### TRBV19\*ap01

9152 sequences assigned  
9078 (99.2%) exact matches, in which:  
9052 unique CDR3  
13 unique J



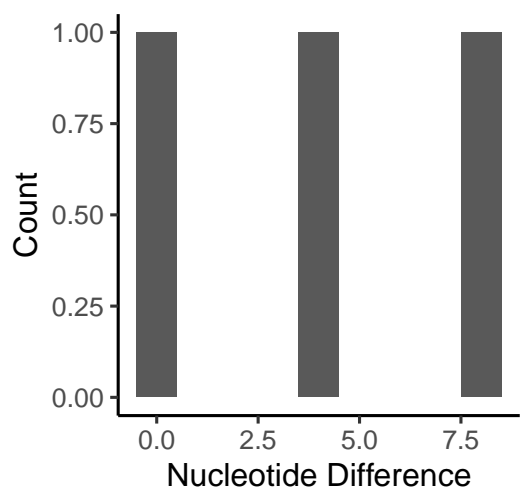
### TRBV27\*ap01

9021 sequences assigned  
8930 (99%) exact matches, in which:  
8862 unique CDR3  
13 unique J



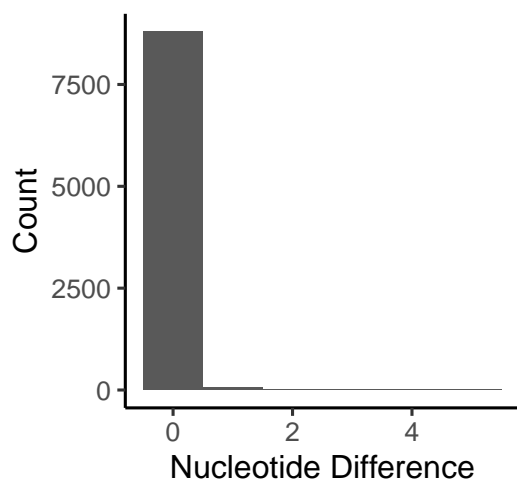
### TRBV17\*ap01

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



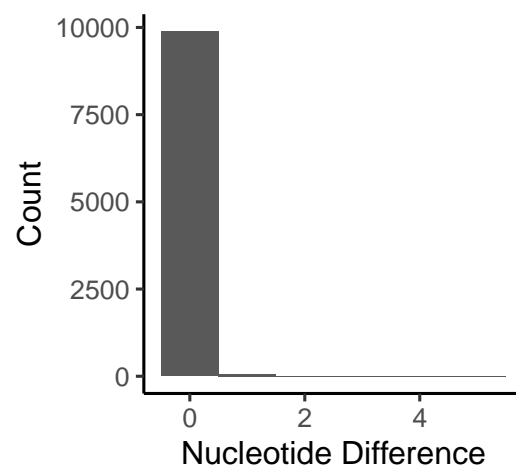
### TRBV2\*ap01

8871 sequences assigned  
8795 (99.1%) exact matches, in which:  
8751 unique CDR3  
13 unique J



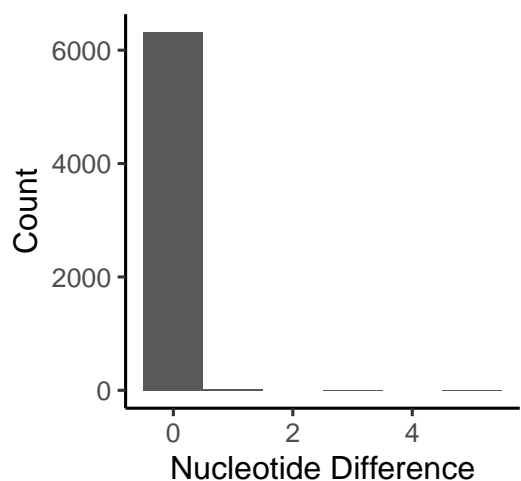
### TRBV28\*ap01

9961 sequences assigned  
9885 (99.2%) exact matches, in which:  
9806 unique CDR3  
13 unique J



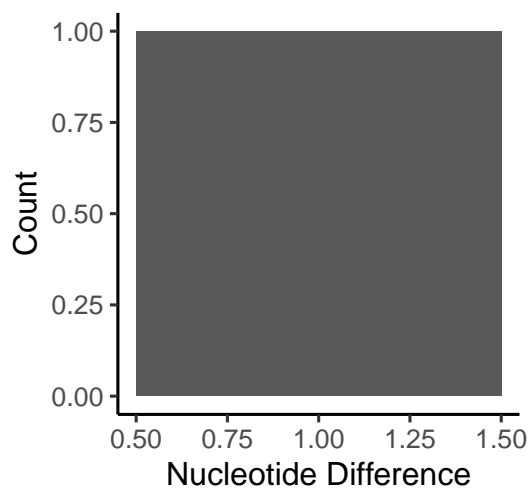
### TRBV18\*ap01

6344 sequences assigned  
6320 (99.6%) exact matches, in which:  
6301 unique CDR3  
13 unique J



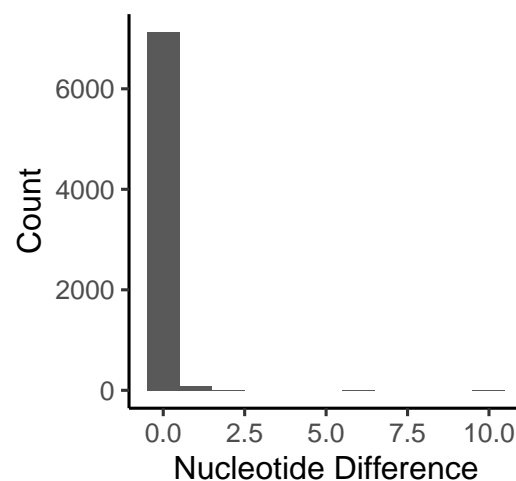
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



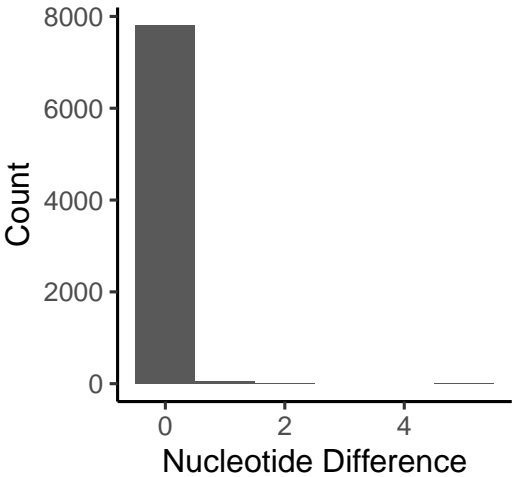
### TRBV30\*ap01

7227 sequences assigned  
7129 (98.6%) exact matches, in which:  
7095 unique CDR3  
13 unique J



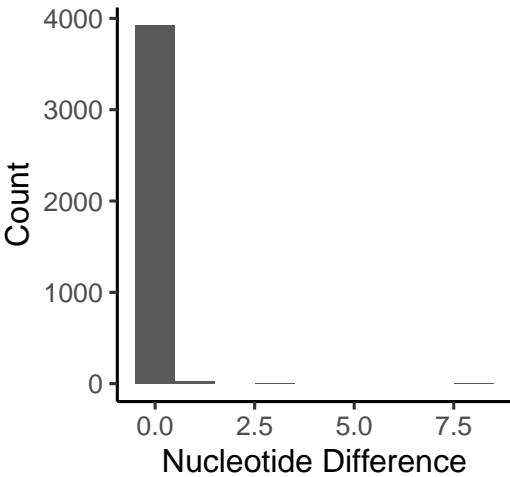
TRBV9\*ap01

7873 sequences assigned  
7804 (99.1%) exact matches, in which:  
7755 unique CDR3  
13 unique J



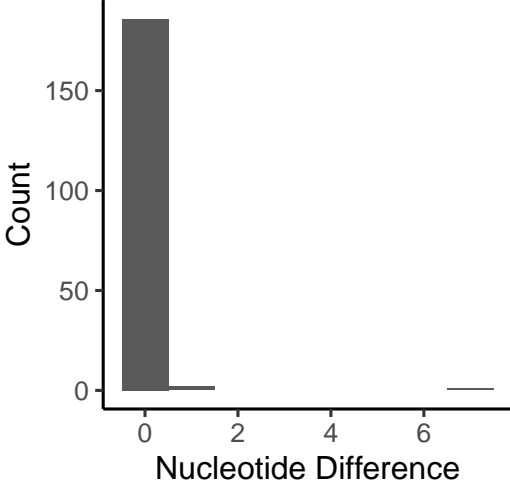
TRBV11-2\*ap01

3954 sequences assigned  
3923 (99.2%) exact matches, in which:  
3902 unique CDR3  
13 unique J



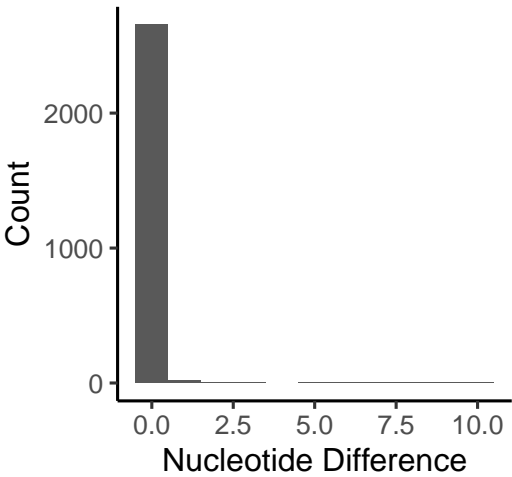
TRBV12-2\*ap01

189 sequences assigned  
186 (98.4%) exact matches, in which:  
184 unique CDR3  
13 unique J



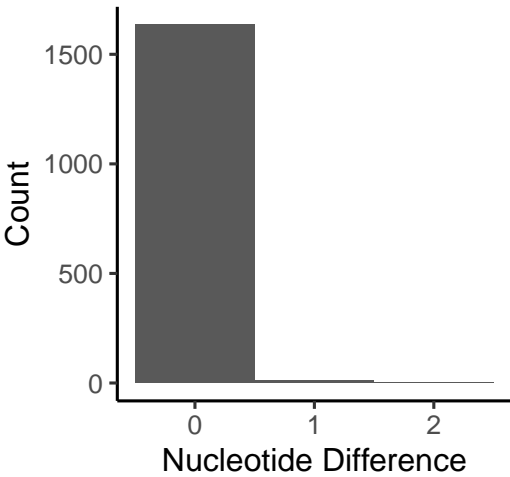
TRBV21-1\*ap01

2693 sequences assigned  
2655 (98.6%) exact matches, in which:  
2641 unique CDR3  
13 unique J



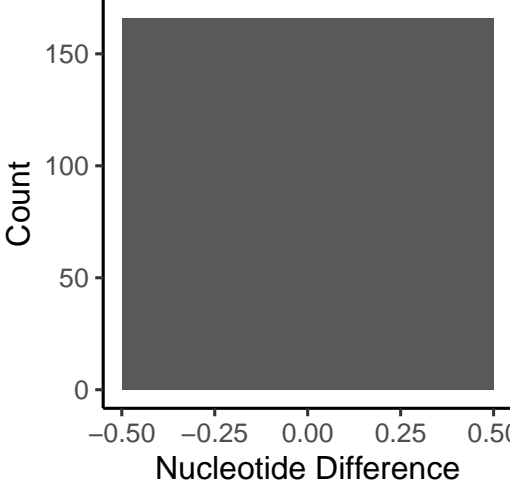
TRBV11-3\*ap01

1649 sequences assigned  
1635 (99.2%) exact matches, in which:  
1627 unique CDR3  
13 unique J



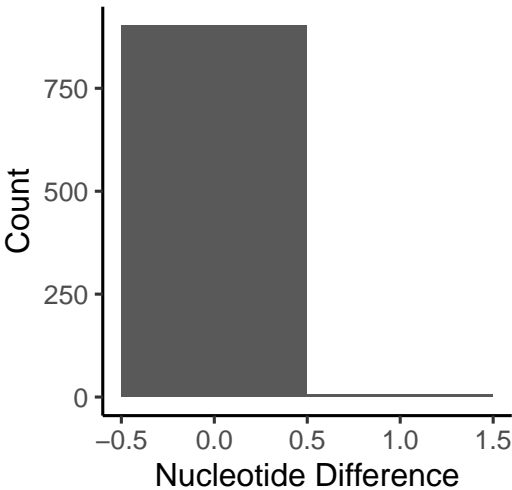
TRBV12-2\*ap01\_G301A

166 sequences assigned  
166 (100%) exact matches, in which:  
165 unique CDR3  
12 unique J



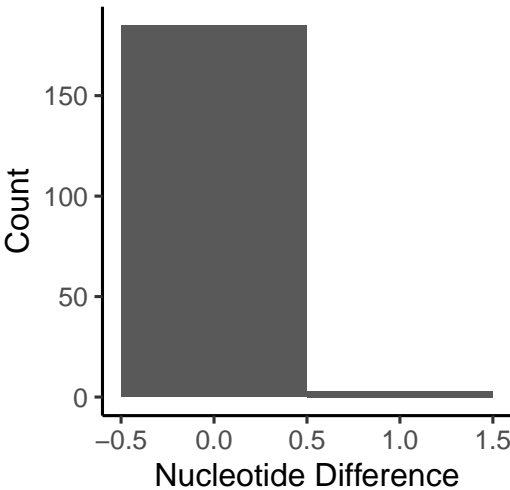
TRBV11-1\*ap01

909 sequences assigned  
903 (99.3%) exact matches, in which:  
898 unique CDR3  
13 unique J



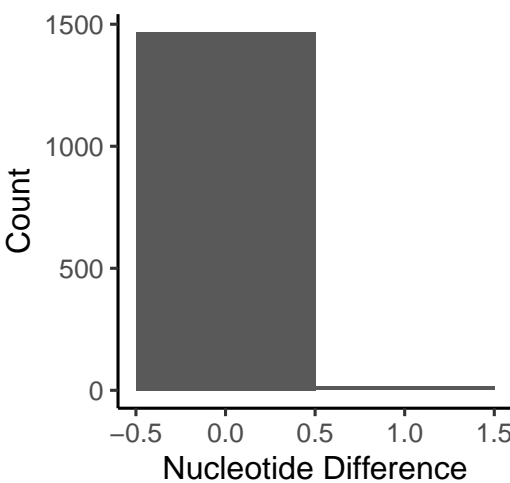
TRBV12-1\*ap01

188 sequences assigned  
185 (98.4%) exact matches, in which:  
182 unique CDR3  
13 unique J



TRBV12-5\*ap01

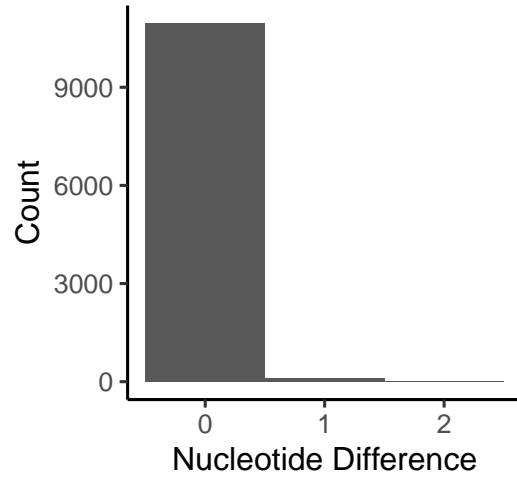
1483 sequences assigned  
1468 (99%) exact matches, in which:  
1453 unique CDR3  
13 unique J





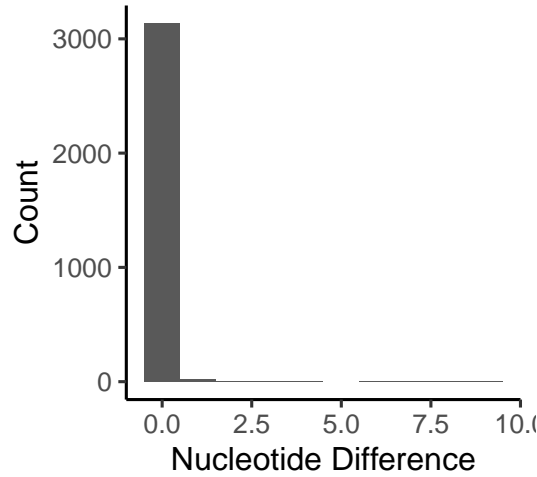
### TRBV12-34\*ap01

11052 sequences assigned  
10952 (99.1%) exact matches, in which:  
10867 unique CDR3  
13 unique J



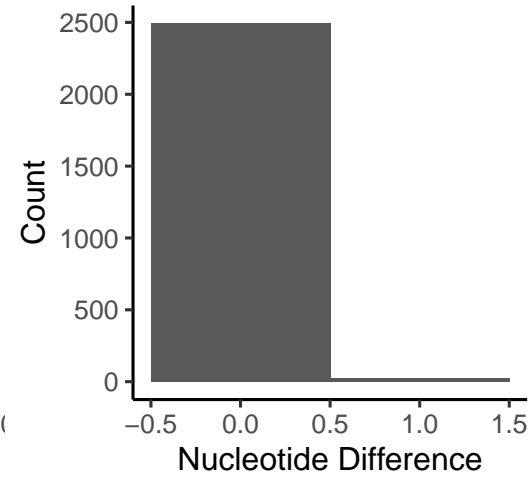
### TRBV24-1\*ap01

3180 sequences assigned  
3135 (98.6%) exact matches, in which:  
3125 unique CDR3  
13 unique J



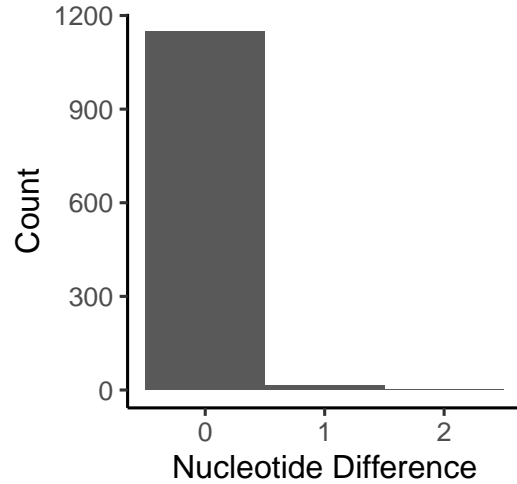
### TRBV4-3\*ap01

2516 sequences assigned  
2493 (99.1%) exact matches, in which:  
2483 unique CDR3  
13 unique J



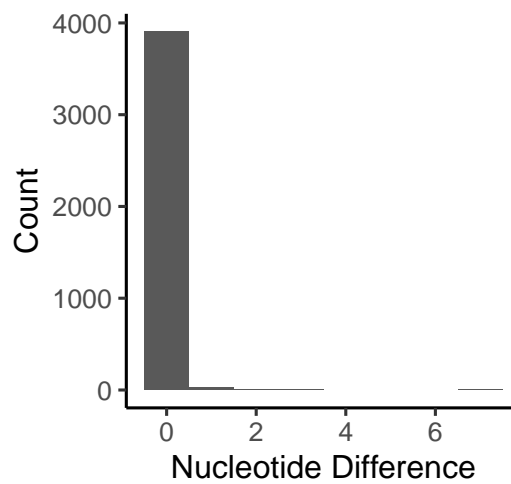
### TRBV23-1\*ap01

1162 sequences assigned  
1148 (98.8%) exact matches, in which:  
1137 unique CDR3  
13 unique J



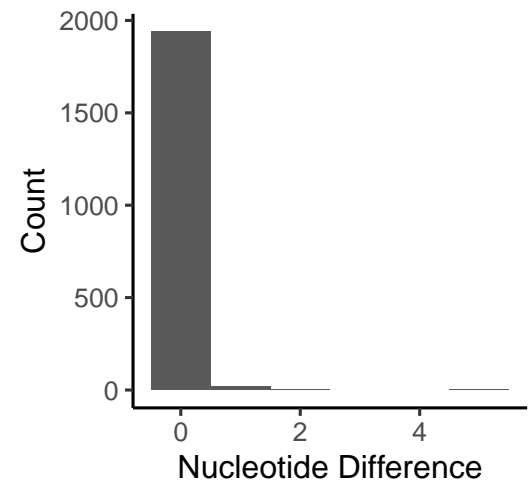
### TRBV4-1\*ap01

3932 sequences assigned  
3904 (99.3%) exact matches, in which:  
3873 unique CDR3  
13 unique J



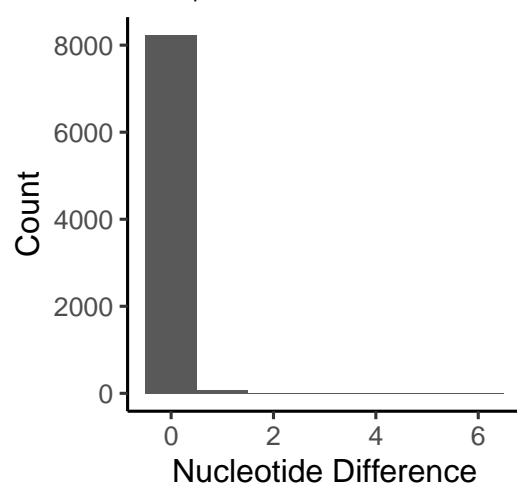
### TRBV25-1\*ap01

1959 sequences assigned  
1939 (99%) exact matches, in which:  
1933 unique CDR3  
13 unique J



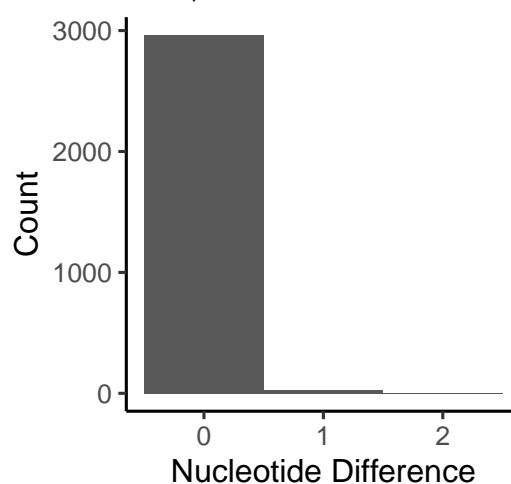
### TRBV3-12\*ap01

8321 sequences assigned  
8232 (98.9%) exact matches, in which:  
8176 unique CDR3  
13 unique J



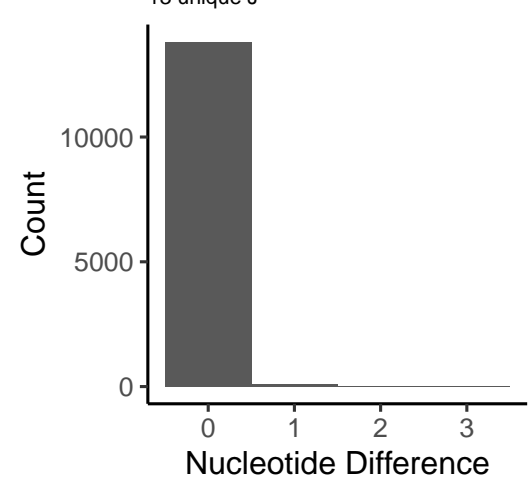
### TRBV4-2\*ap01

2991 sequences assigned  
2963 (99.1%) exact matches, in which:  
2950 unique CDR3  
13 unique J



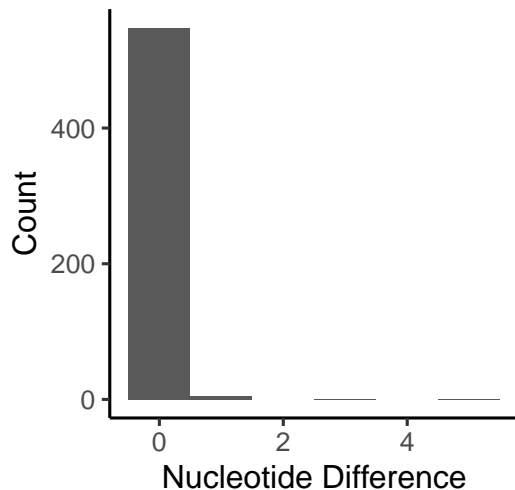
### TRBV5-1\*ap01

13912 sequences assigned  
13816 (99.3%) exact matches, in which:  
13680 unique CDR3  
13 unique J



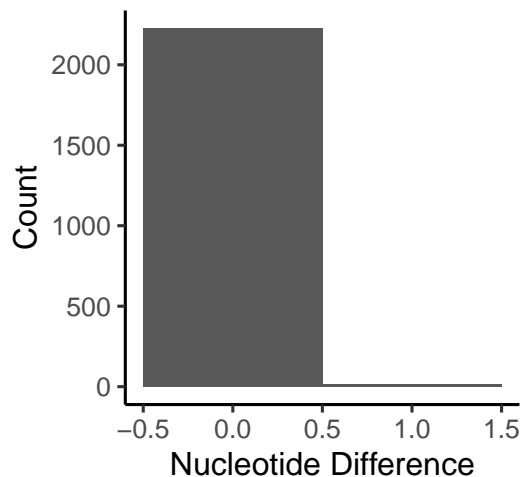
### TRBV5-3\*ap01

555 sequences assigned  
548 (98.7%) exact matches, in which:  
539 unique CDR3  
13 unique J



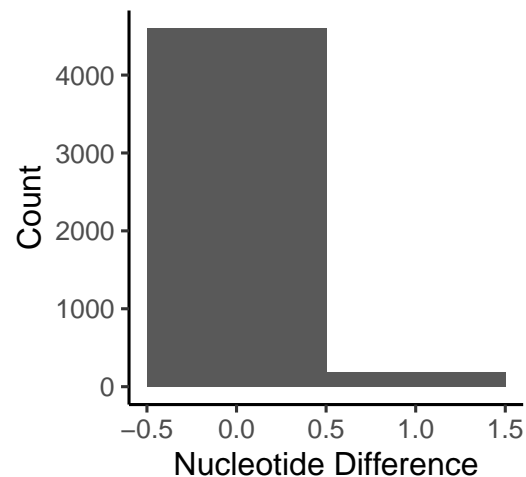
### TRBV5-6\*ap01

2241 sequences assigned  
2226 (99.3%) exact matches, in which:  
2210 unique CDR3  
13 unique J



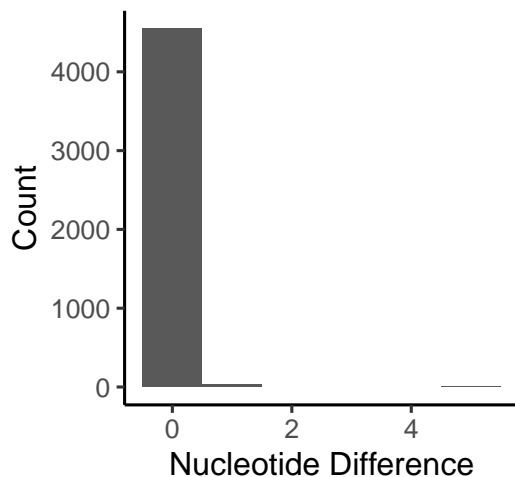
### TRBV6-1\*ap01

4781 sequences assigned  
4599 (96.2%) exact matches, in which:  
4571 unique CDR3  
13 unique J



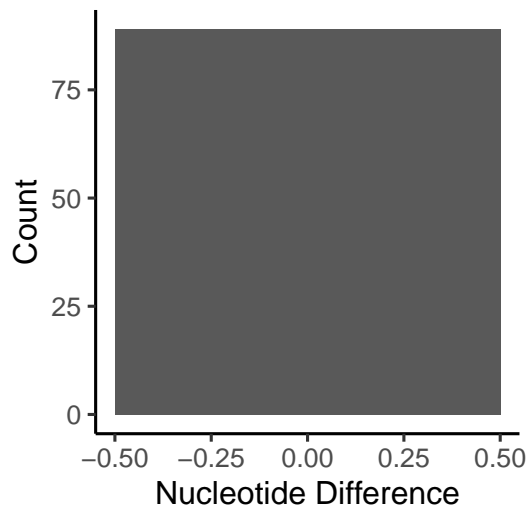
### TRBV5-4\*ap01

4577 sequences assigned  
4547 (99.3%) exact matches, in which:  
4514 unique CDR3  
13 unique J



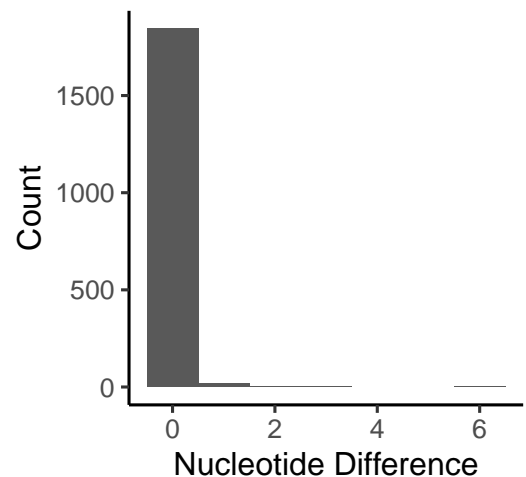
### TRBV5-7\*ap01

89 sequences assigned  
89 (100%) exact matches, in which:  
89 unique CDR3  
13 unique J



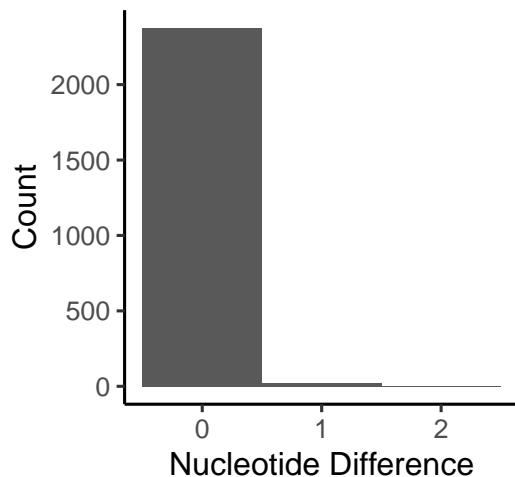
### TRBV6-4\*ap01

1871 sequences assigned  
1844 (98.6%) exact matches, in which:  
1835 unique CDR3  
13 unique J



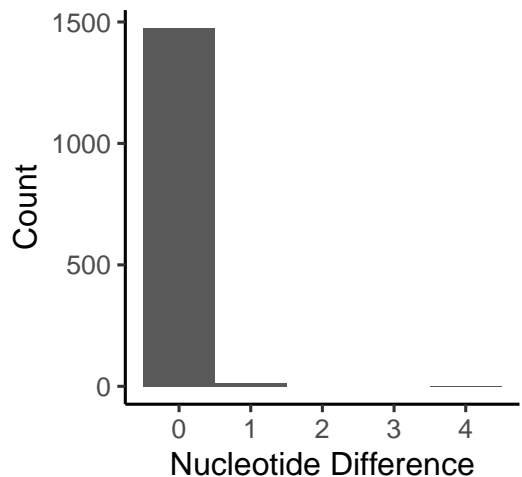
### TRBV5-5\*ap01

2401 sequences assigned  
2375 (98.9%) exact matches, in which:  
2357 unique CDR3  
13 unique J



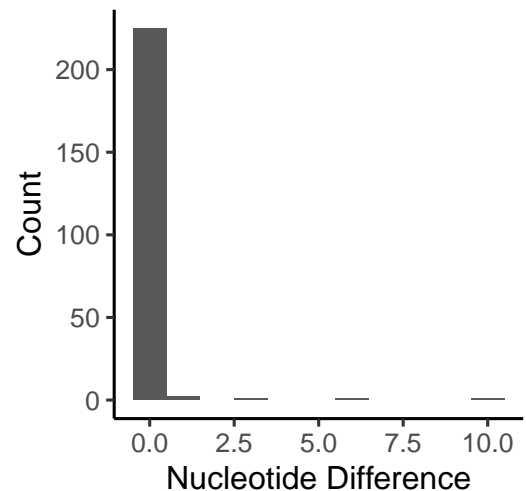
### TRBV5-8\*ap01

1489 sequences assigned  
1475 (99.1%) exact matches, in which:  
1463 unique CDR3  
13 unique J



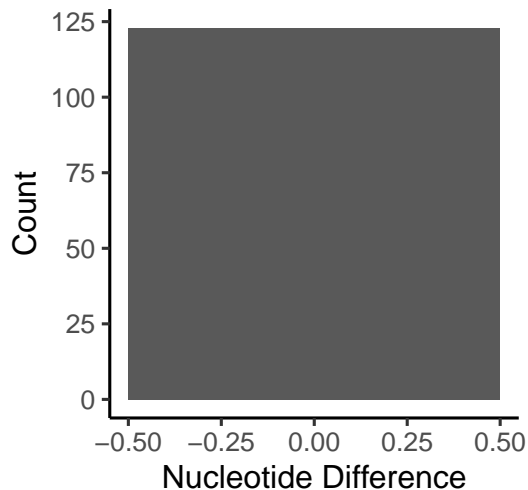
### TRBV6-7\*ap01

230 sequences assigned  
225 (97.8%) exact matches, in which:  
224 unique CDR3  
13 unique J



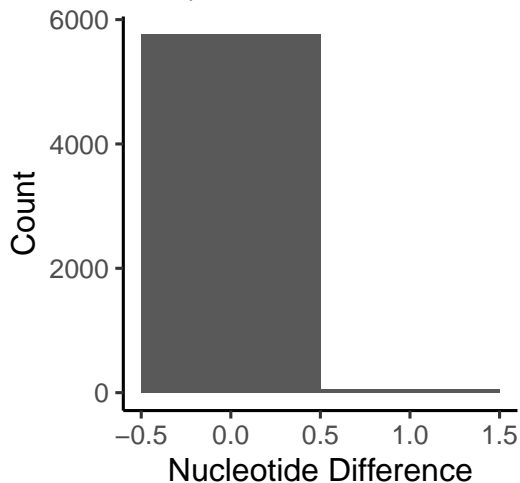
### TRBV6-8\*ap01

123 sequences assigned  
123 (100%) exact matches, in which:  
122 unique CDR3  
11 unique J



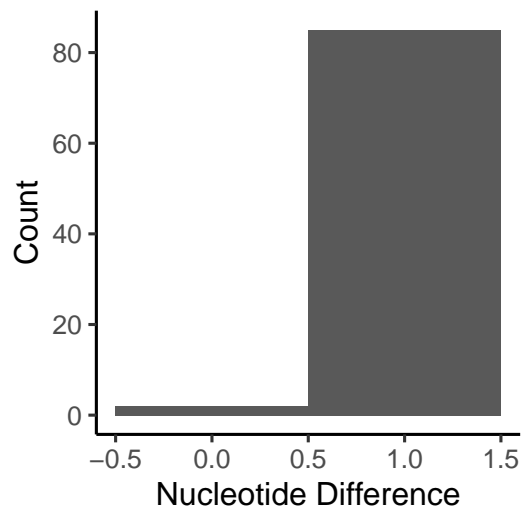
### TRBV6-56\*ap01

5825 sequences assigned  
5762 (98.9%) exact matches, in which:  
5729 unique CDR3  
13 unique J



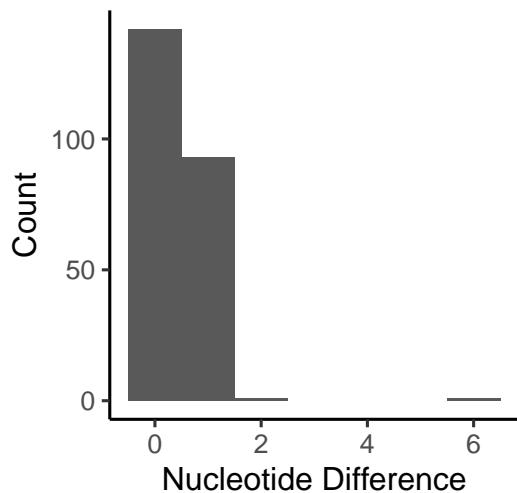
### TRBV7-1\*ap01\_T296C\_C

87 sequences assigned  
2 (2.3%) exact matches, in which:  
2 unique CDR3  
2 unique J



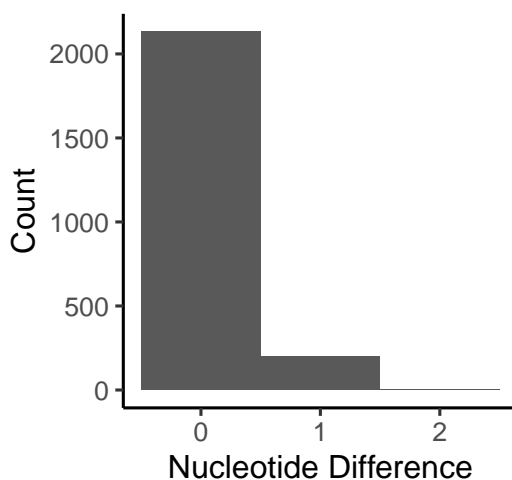
### TRBV6-9\*ap01

237 sequences assigned  
142 (59.9%) exact matches, in which:  
141 unique CDR3  
13 unique J



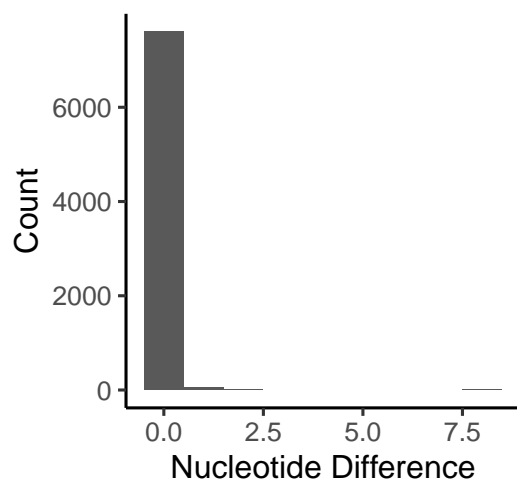
### TRBV6-56\*ap02

2330 sequences assigned  
2132 (91.5%) exact matches, in which:  
2118 unique CDR3  
13 unique J



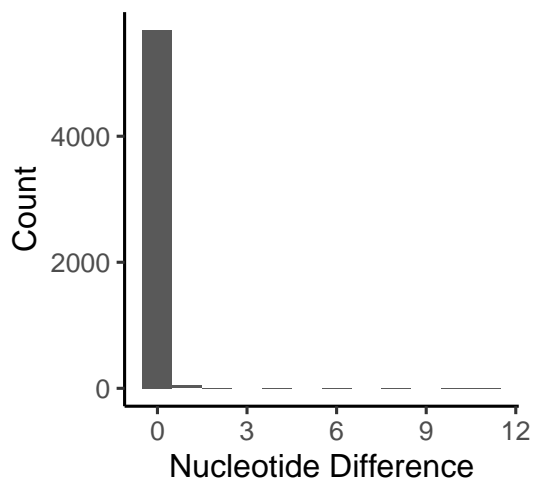
### TRBV7-2\*ap01

7650 sequences assigned  
7603 (99.4%) exact matches, in which:  
7564 unique CDR3  
13 unique J



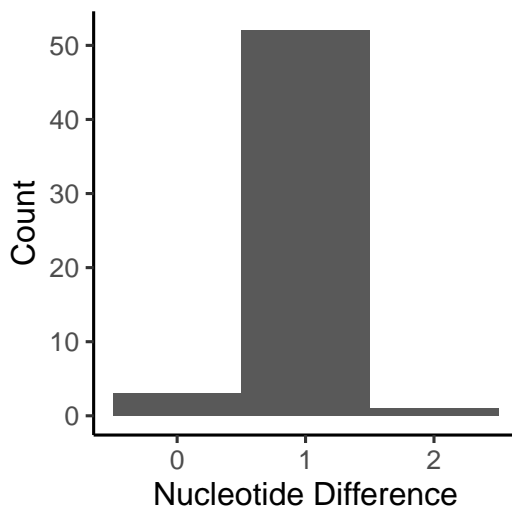
### TRBV6-23\*ap01

5738 sequences assigned  
5685 (99.1%) exact matches, in which:  
5652 unique CDR3  
13 unique J



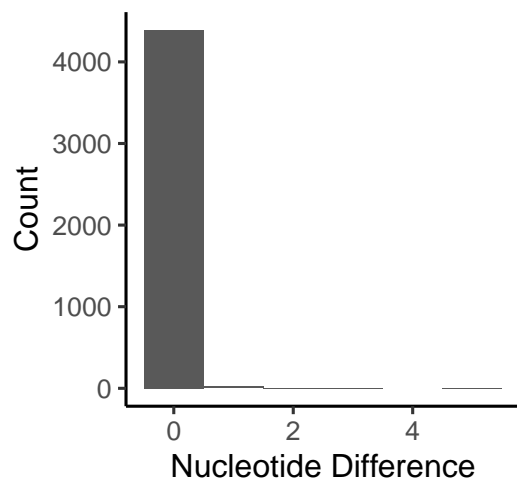
### TRBV7-1\*ap01\_T296C

56 sequences assigned  
3 (5.4%) exact matches, in which:  
3 unique CDR3  
3 unique J



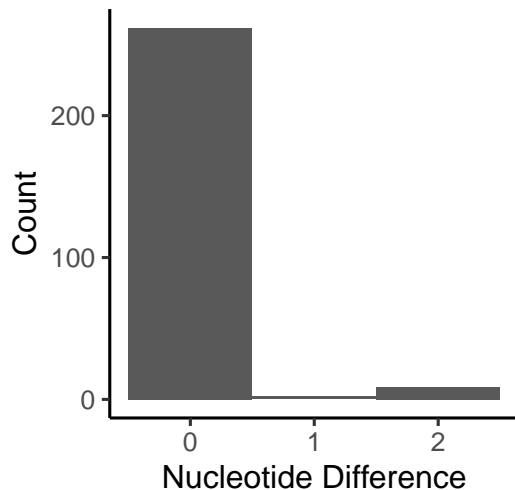
### TRBV7-3\*ap01

4418 sequences assigned  
4390 (99.4%) exact matches, in which:  
4355 unique CDR3  
13 unique J



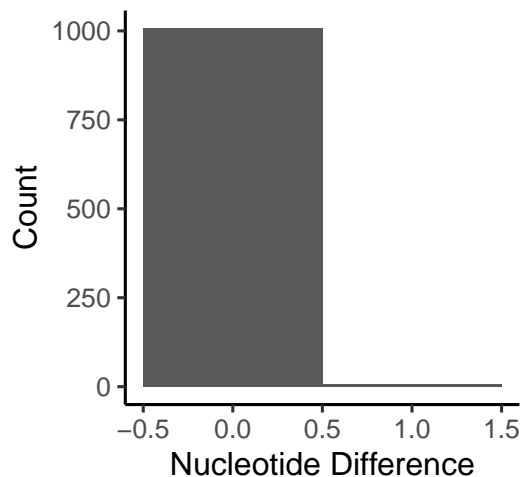
### TRBV7-4\*ap01

273 sequences assigned  
262 (96%) exact matches, in which:  
258 unique CDR3  
13 unique J



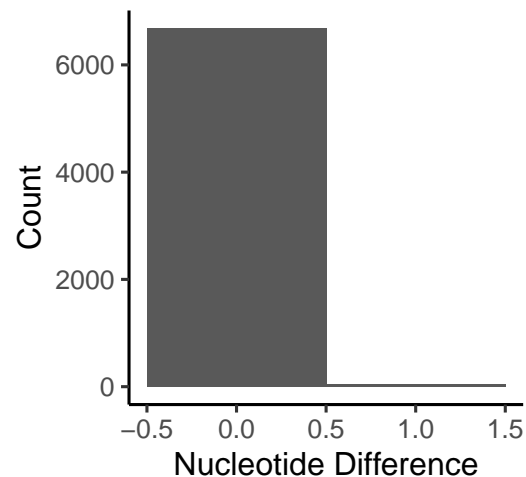
### TRBV7-8\*ap01

1014 sequences assigned  
1007 (99.3%) exact matches, in which:  
1003 unique CDR3  
13 unique J



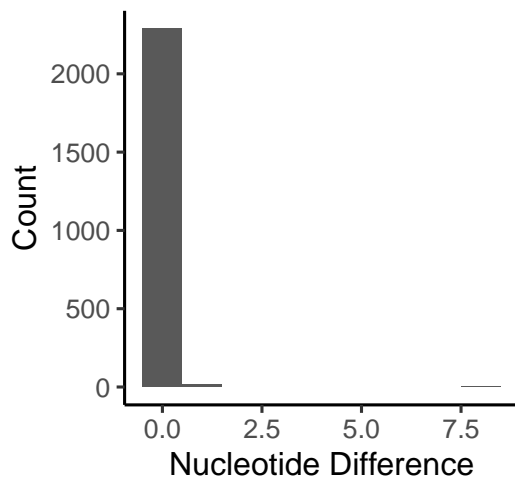
### TRBV7-9\*ap01

6718 sequences assigned  
6680 (99.4%) exact matches, in which:  
6647 unique CDR3  
13 unique J



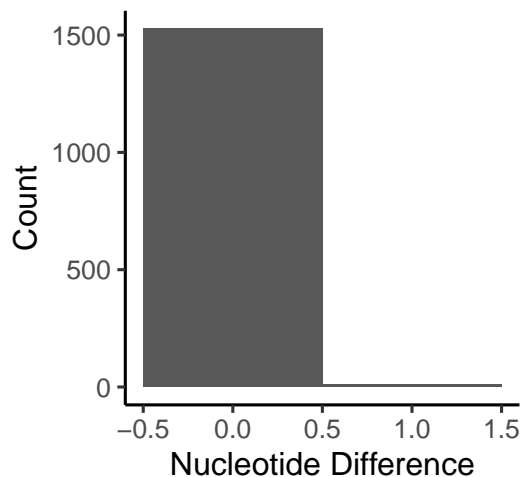
### TRBV7-6\*ap01

2306 sequences assigned  
2288 (99.2%) exact matches, in which:  
2266 unique CDR3  
13 unique J



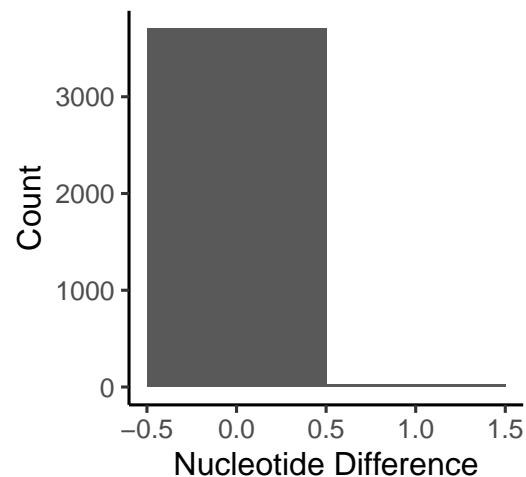
### TRBV7-8\*ap02

1538 sequences assigned  
1527 (99.3%) exact matches, in which:  
1522 unique CDR3  
13 unique J



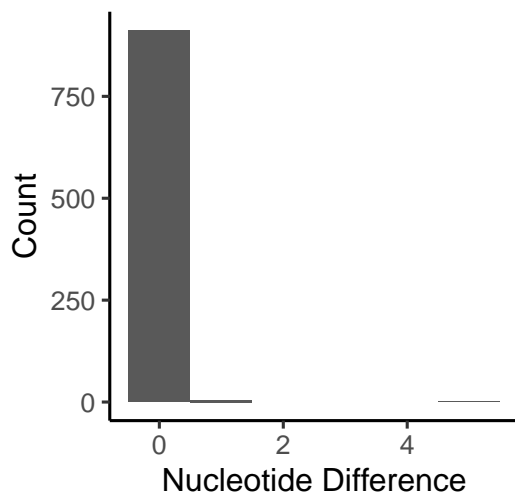
### TRBV29-1\*ap01

3725 sequences assigned  
3703 (99.4%) exact matches, in which:  
3689 unique CDR3  
13 unique J



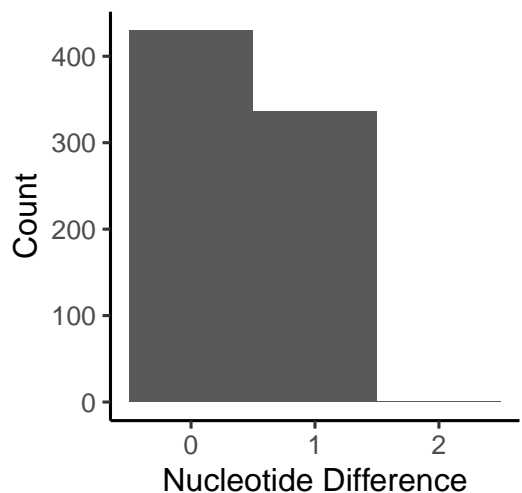
### TRBV7-7\*ap01\_C315T

918 sequences assigned  
912 (99.3%) exact matches, in which:  
906 unique CDR3  
13 unique J



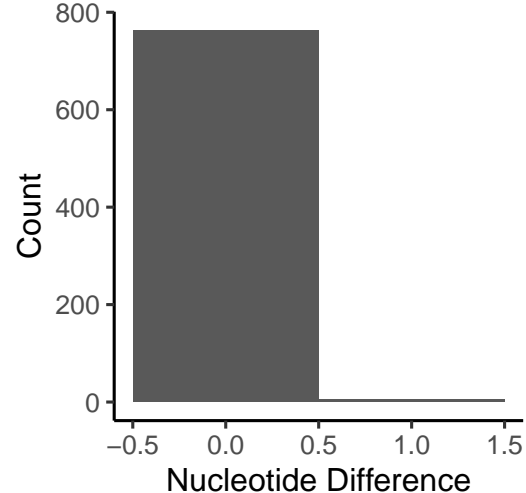
### TRBV7-8\*ap03

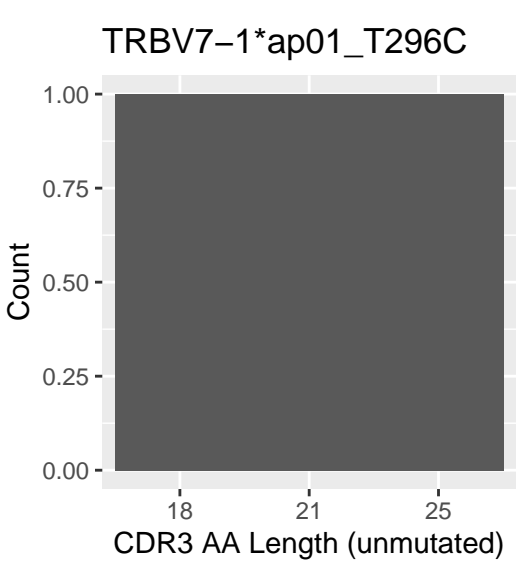
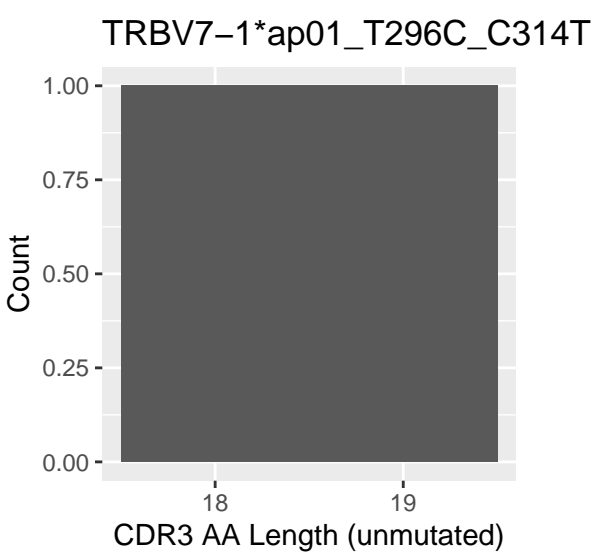
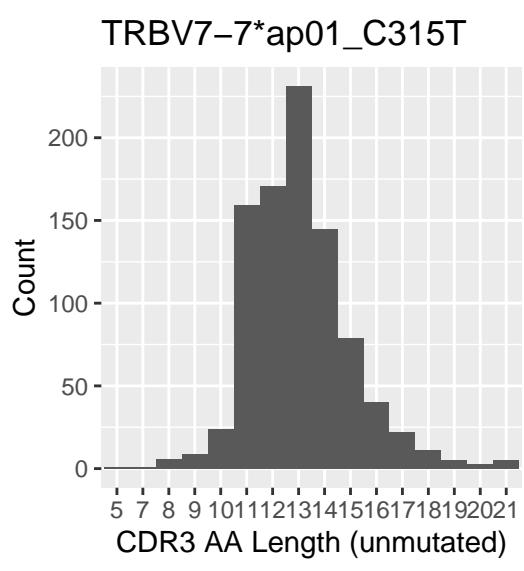
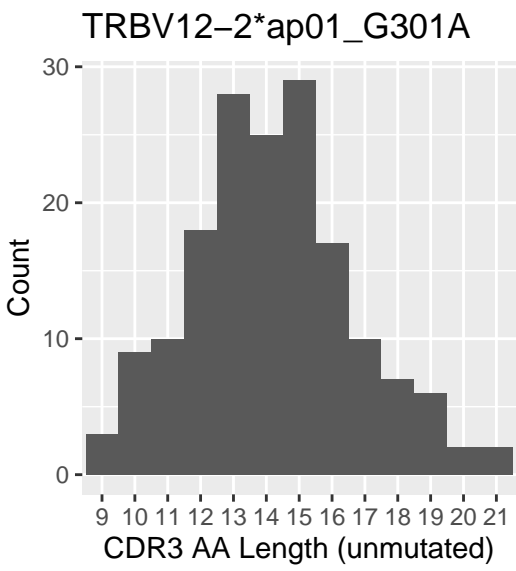
767 sequences assigned  
430 (56.1%) exact matches, in which:  
426 unique CDR3  
13 unique J



### TRBV29-1\*ap02

768 sequences assigned  
763 (99.3%) exact matches, in which:  
759 unique CDR3  
13 unique J







[illegible]