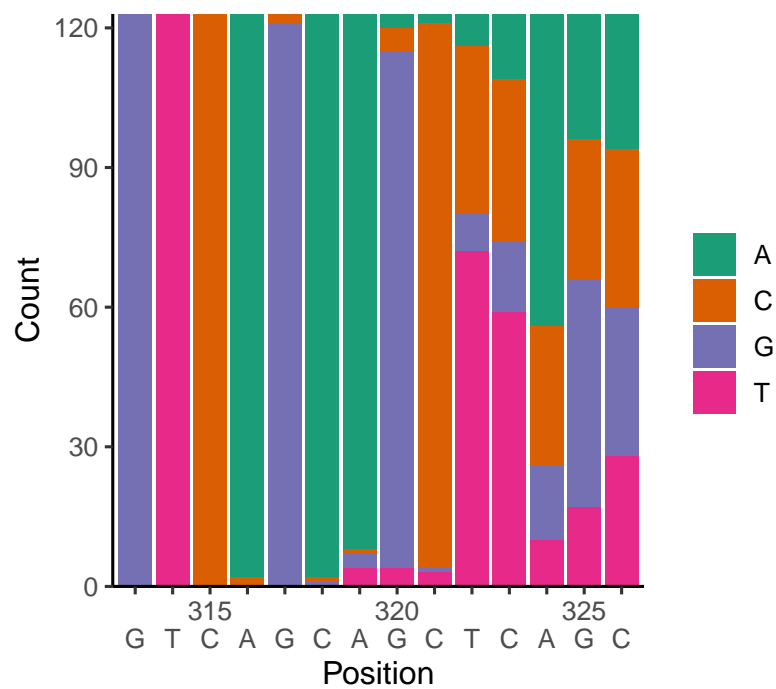
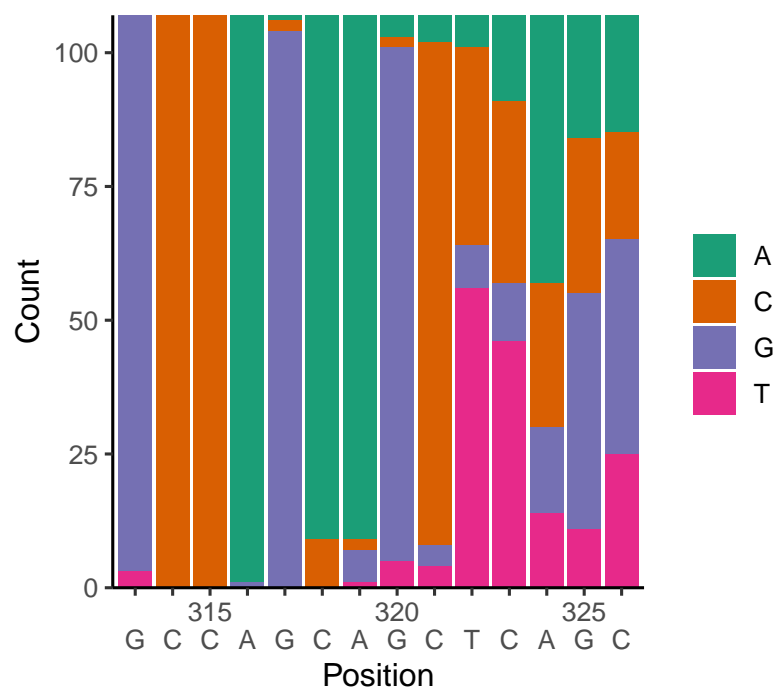


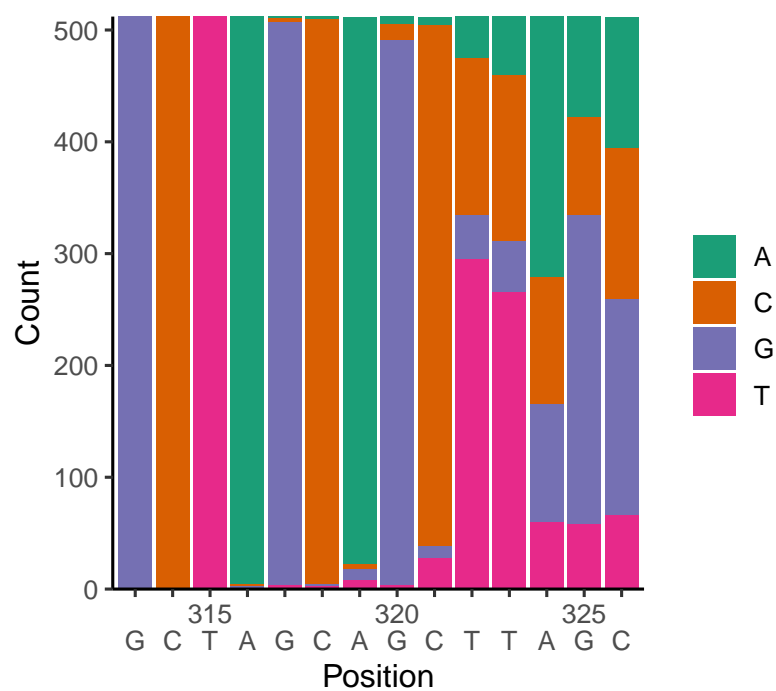
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



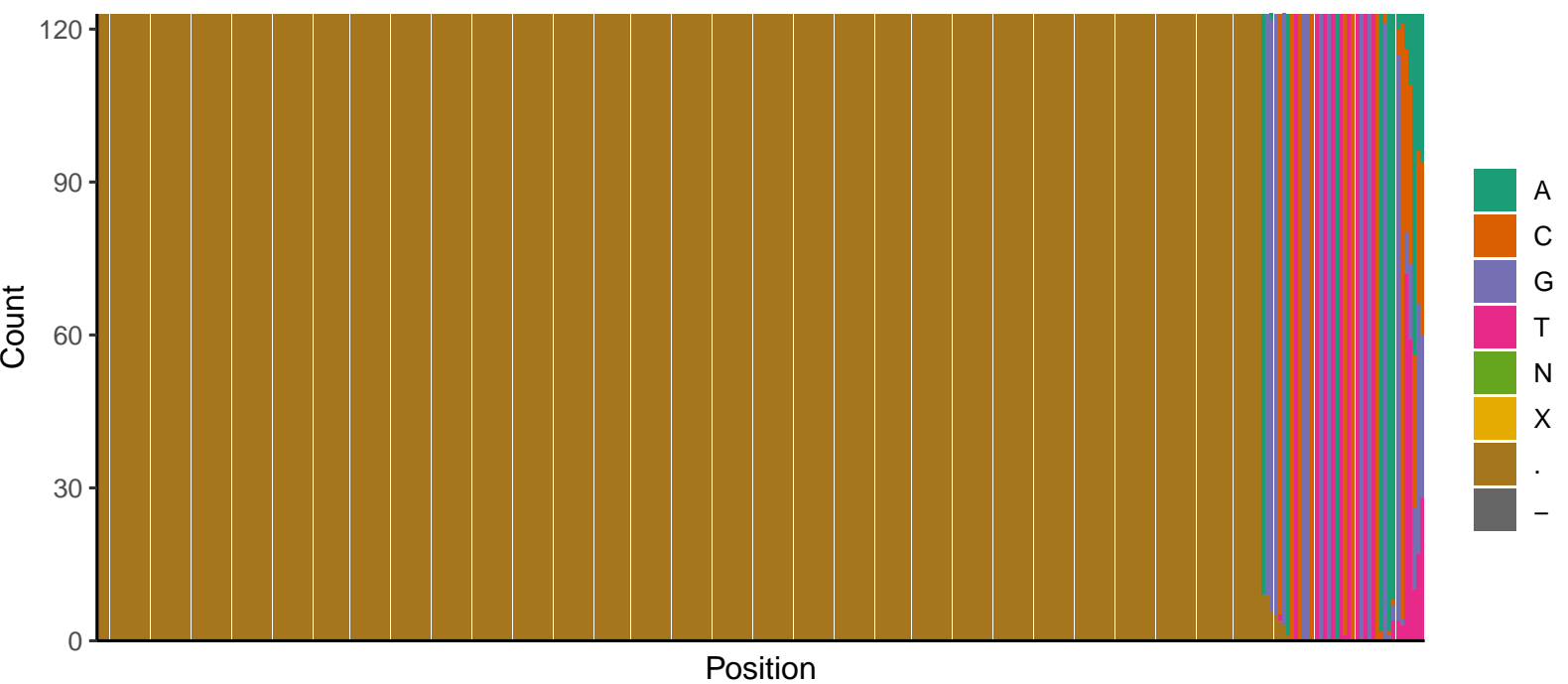
Gene TRBV7-1\*ap01\_G291C\_T296C



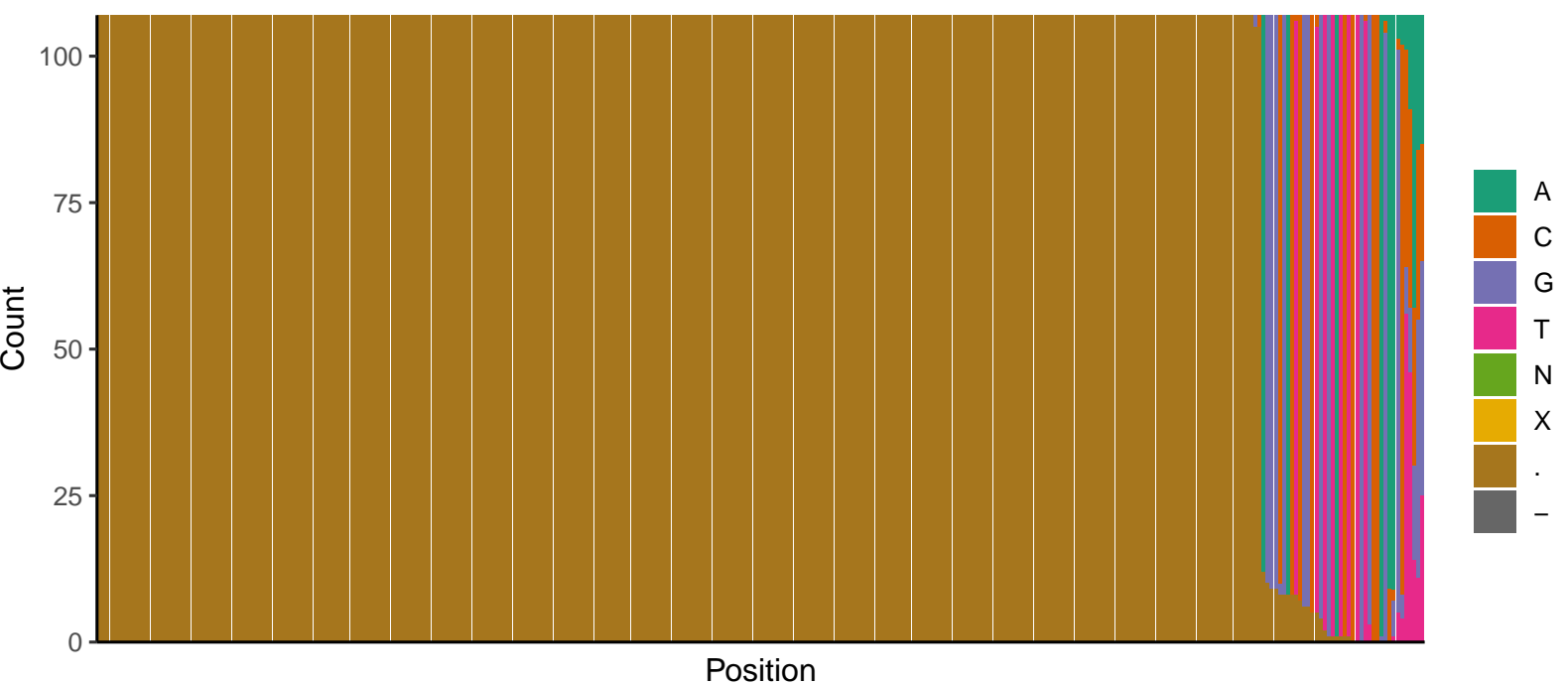
Gene TRBV7-7\*ap01\_C315T



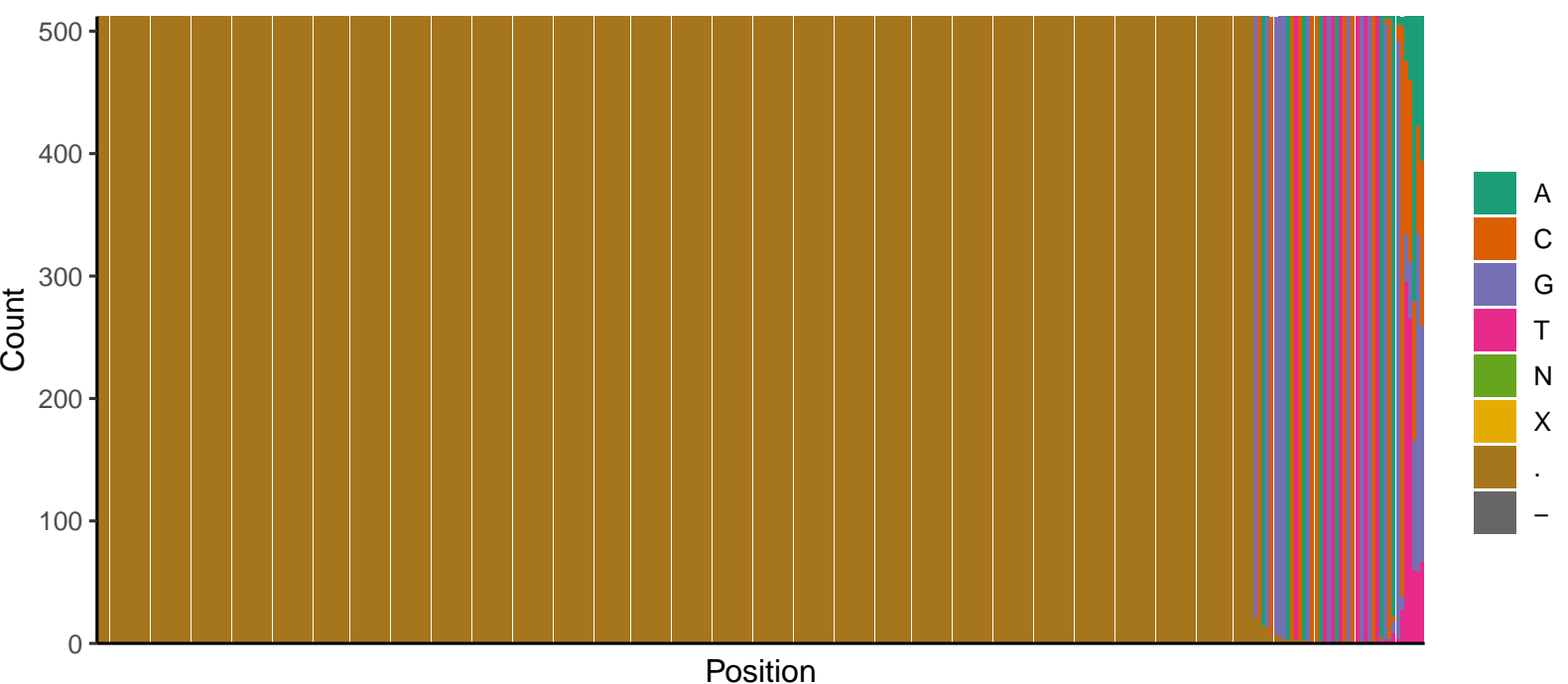
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



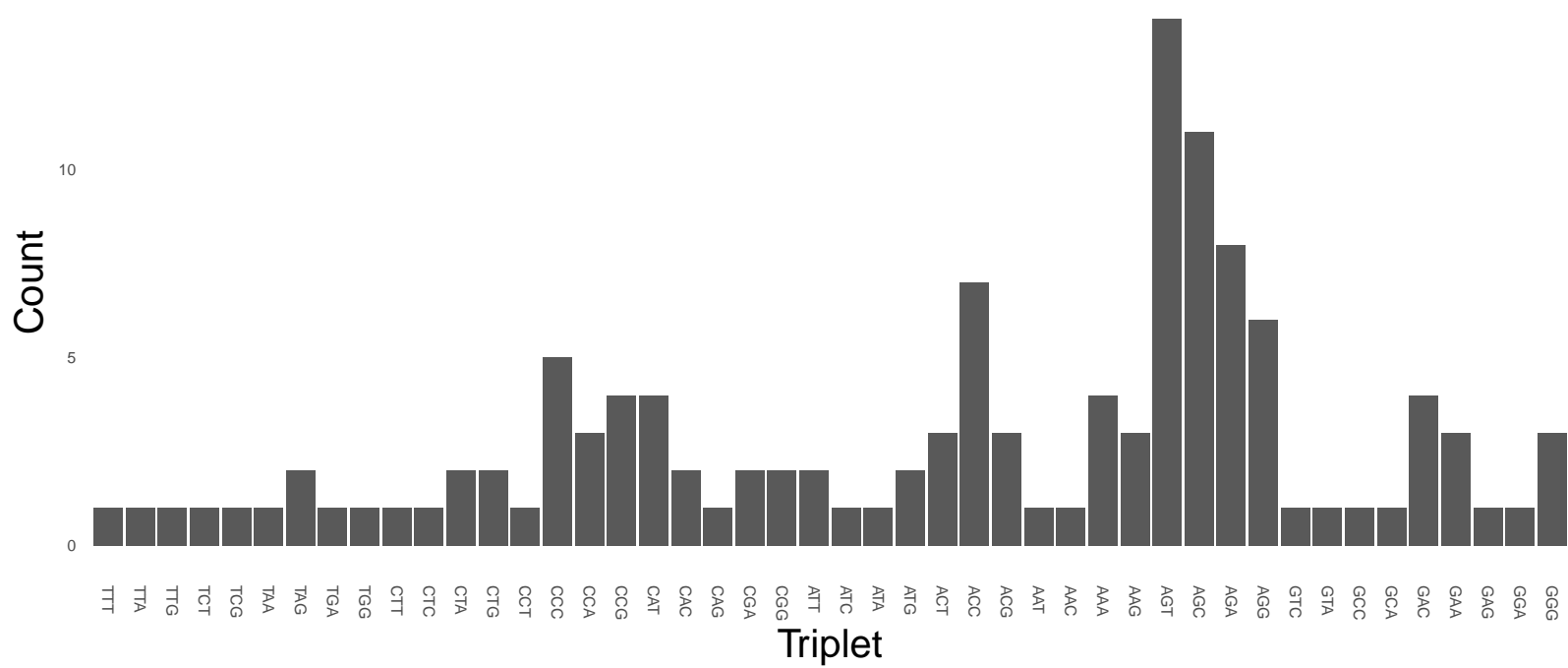
Gene TRBV7-1\*ap01\_G291C\_T296C



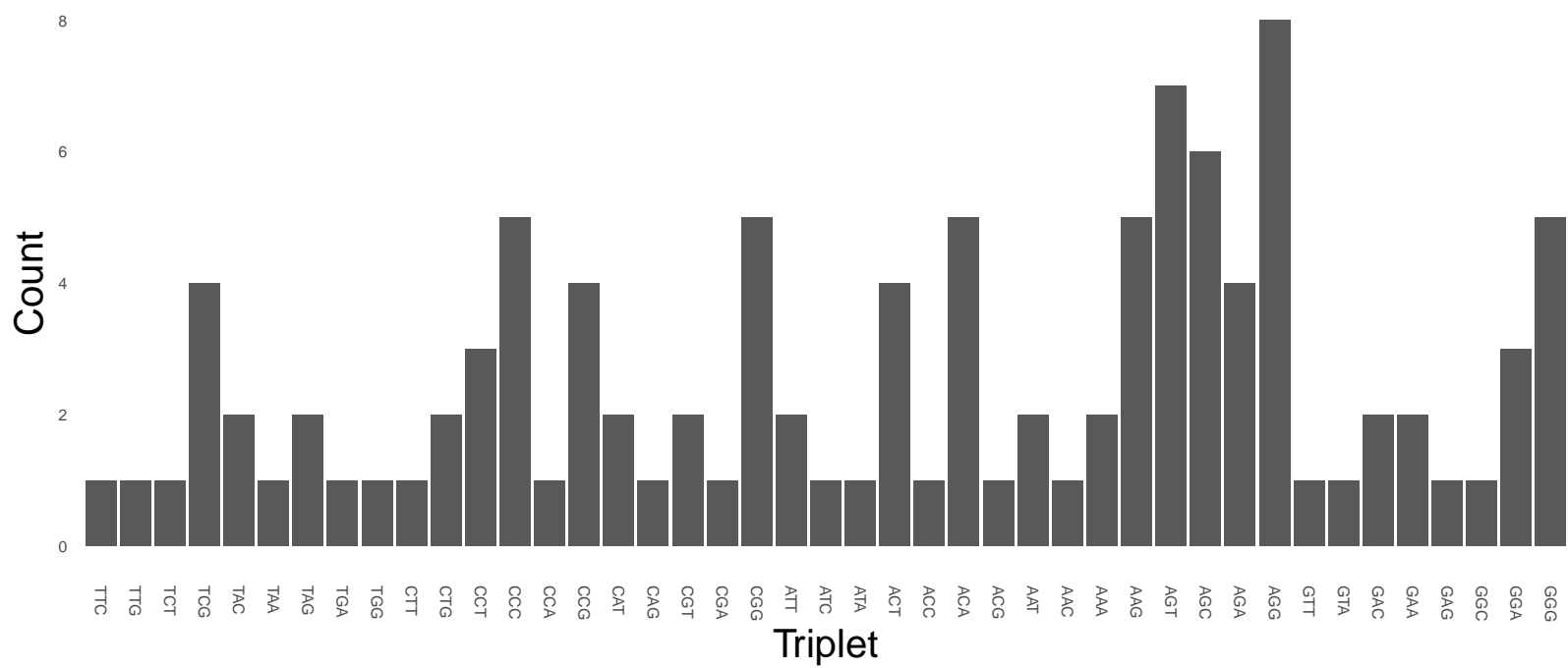
Gene TRBV7-7\*ap01\_C315T



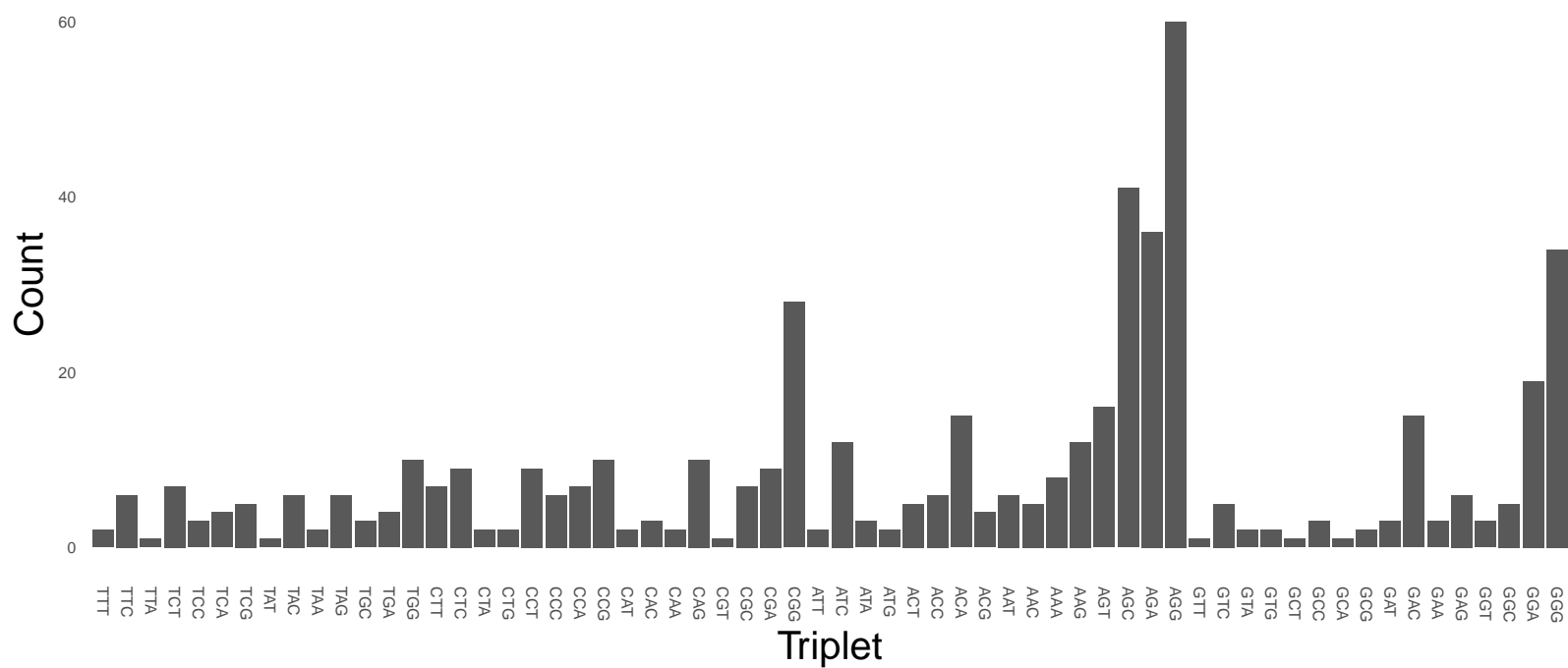
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

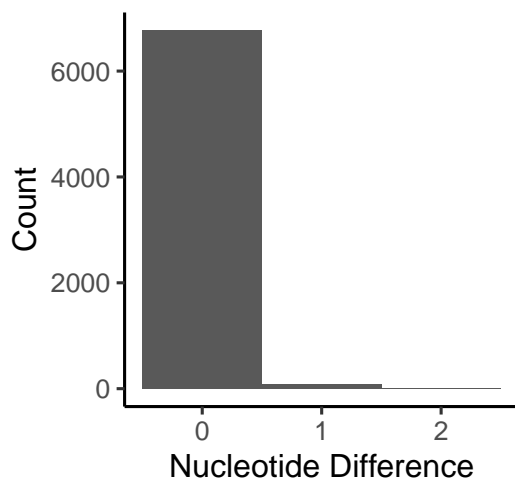


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



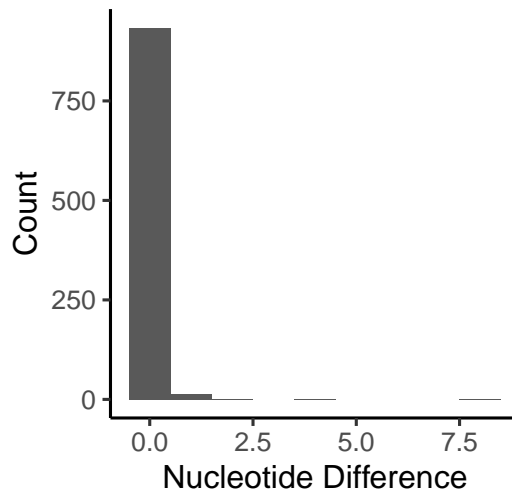
### TRBV20-1\*ap01

6859 sequences assigned  
6768 (98.7%) exact matches, in which:  
6636 unique CDR3  
13 unique J



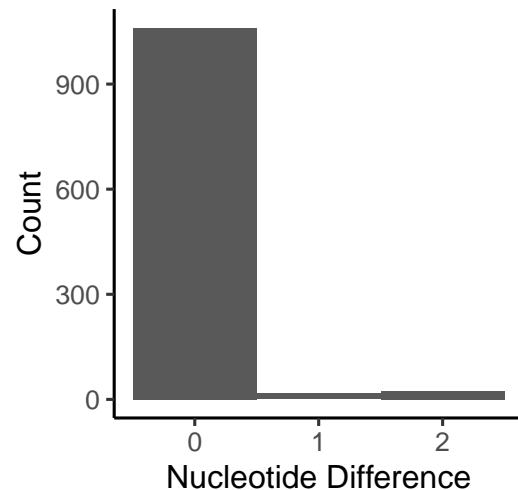
### TRBV10-2\*ap01

951 sequences assigned  
934 (98.2%) exact matches, in which:  
914 unique CDR3  
13 unique J



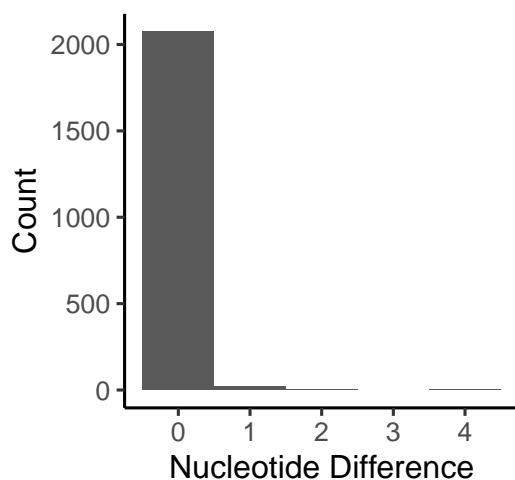
### TRBV13\*ap01

1101 sequences assigned  
1061 (96.4%) exact matches, in which:  
1033 unique CDR3  
13 unique J



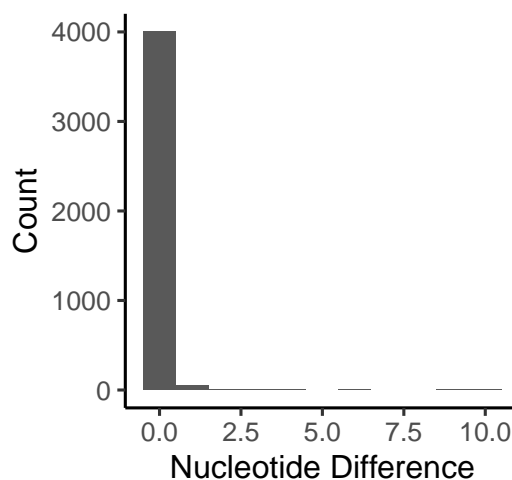
### TRBV10-1\*ap01

2095 sequences assigned  
2074 (99%) exact matches, in which:  
2018 unique CDR3  
13 unique J



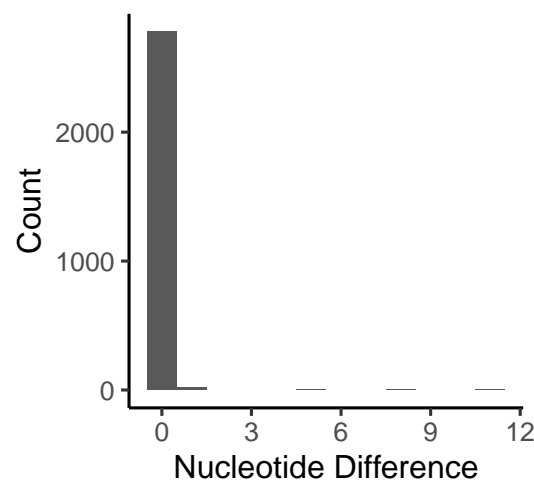
### TRBV10-3\*ap01

4060 sequences assigned  
4002 (98.6%) exact matches, in which:  
3914 unique CDR3  
13 unique J



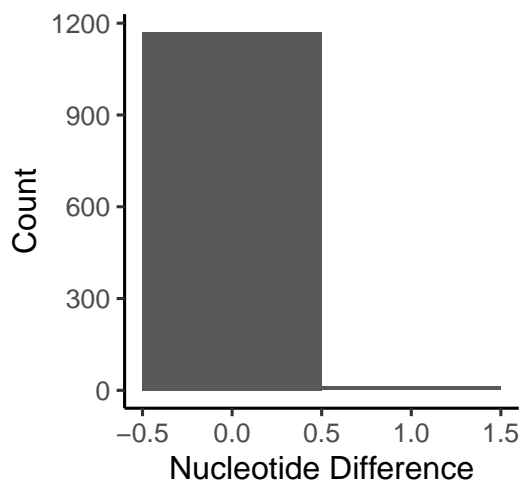
### TRBV14\*ap01

2804 sequences assigned  
2779 (99.1%) exact matches, in which:  
2720 unique CDR3  
13 unique J



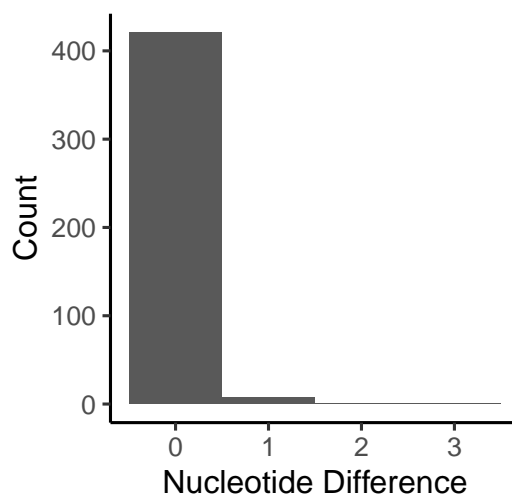
### TRBV20-1\*ap02

1183 sequences assigned  
1171 (99%) exact matches, in which:  
1143 unique CDR3  
13 unique J



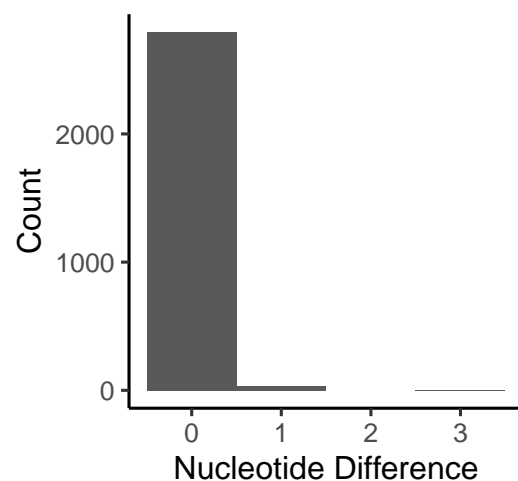
### TRBV1\*ap01

430 sequences assigned  
421 (97.9%) exact matches, in which:  
414 unique CDR3  
13 unique J



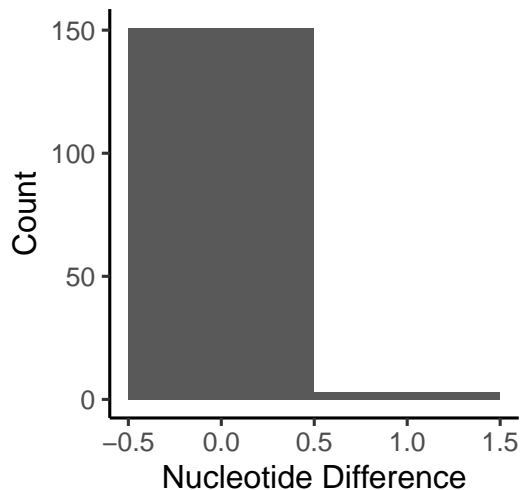
### TRBV15\*ap02

2830 sequences assigned  
2795 (98.8%) exact matches, in which:  
2732 unique CDR3  
13 unique J



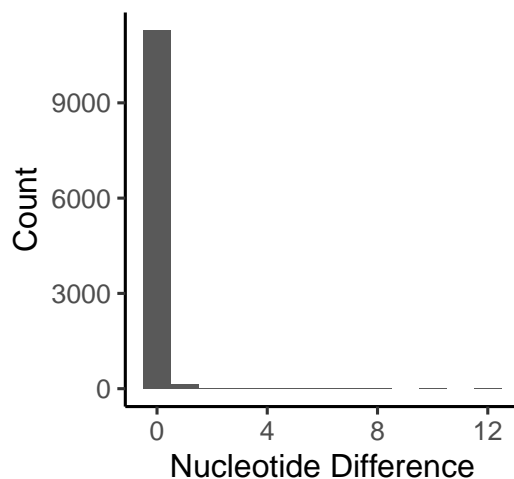
### TRBV16\*ap01

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



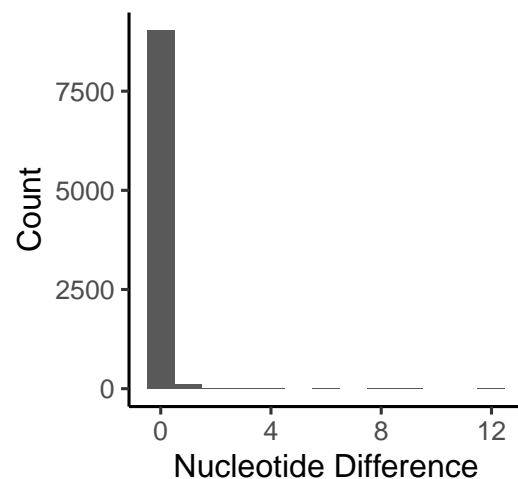
### TRBV19\*ap01

11452 sequences assigned  
11280 (98.5%) exact matches, in which:  
11075 unique CDR3  
13 unique J



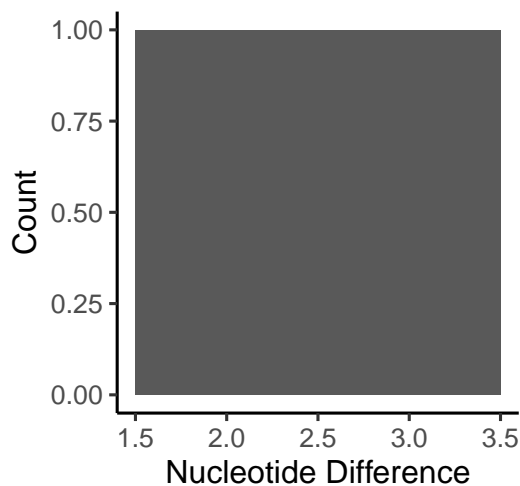
### TRBV27\*ap01

9168 sequences assigned  
9032 (98.5%) exact matches, in which:  
8814 unique CDR3  
13 unique J



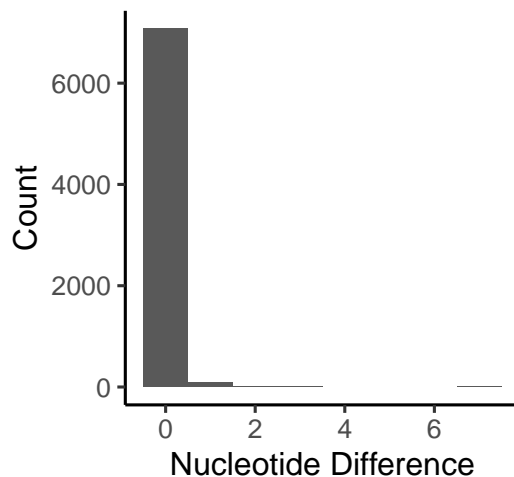
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



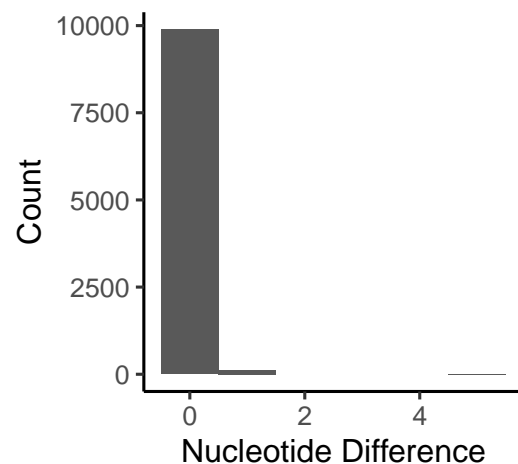
### TRBV2\*ap01

7174 sequences assigned  
7075 (98.6%) exact matches, in which:  
6964 unique CDR3  
13 unique J



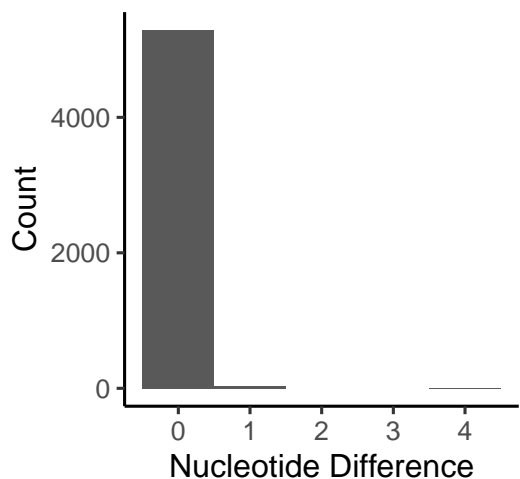
### TRBV28\*ap01

10010 sequences assigned  
9889 (98.8%) exact matches, in which:  
9653 unique CDR3  
13 unique J



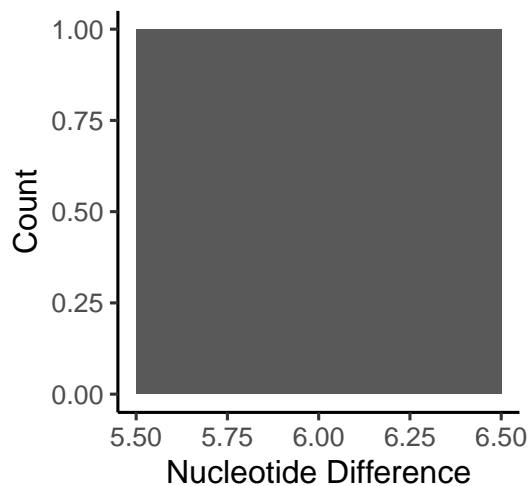
### TRBV18\*ap01

5329 sequences assigned  
5289 (99.2%) exact matches, in which:  
5192 unique CDR3  
13 unique J



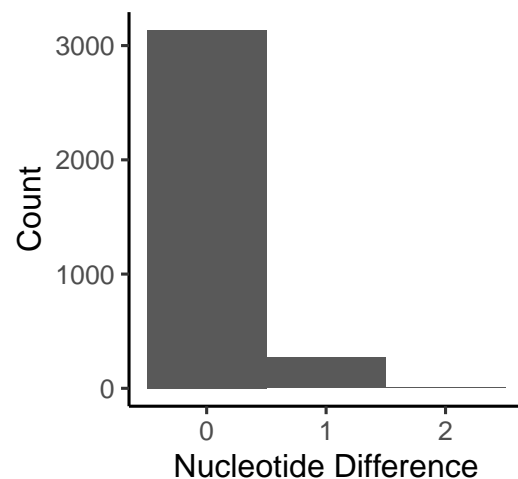
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



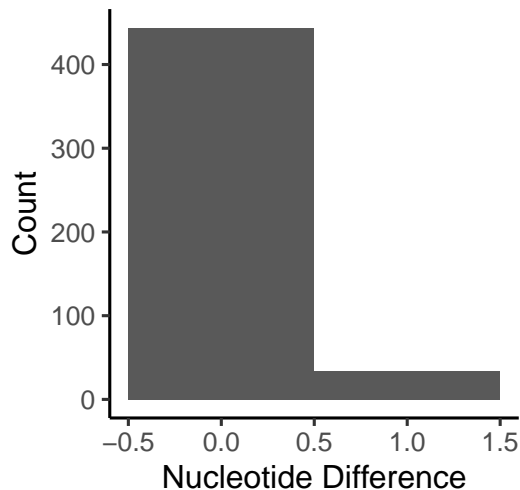
### TRBV30\*ap01

3413 sequences assigned  
3136 (91.9%) exact matches, in which:  
3102 unique CDR3  
13 unique J



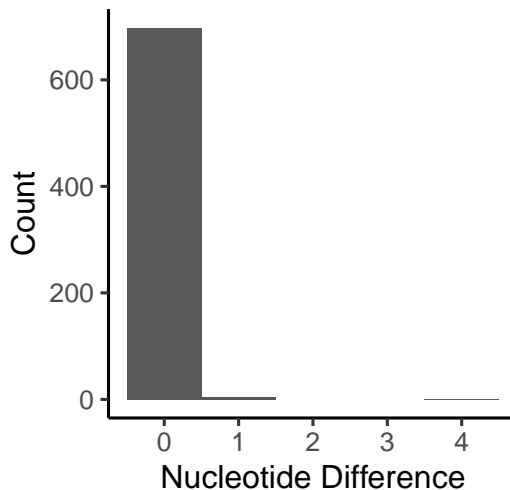
### TRBV30\*ap03

478 sequences assigned  
444 (92.9%) exact matches, in which:  
440 unique CDR3  
13 unique J



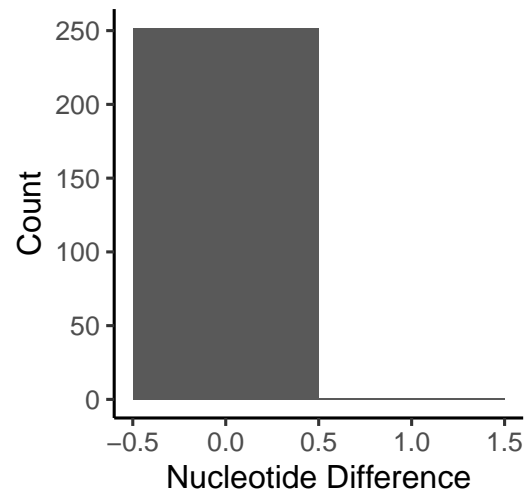
### TRBV11-1\*ap01

704 sequences assigned  
698 (99.1%) exact matches, in which:  
682 unique CDR3  
13 unique J



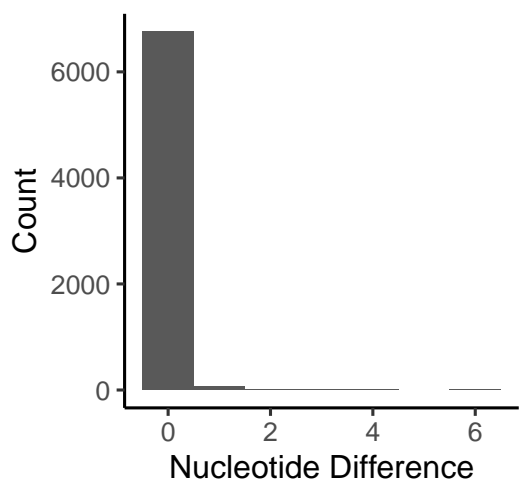
### TRBV12-1\*ap01

253 sequences assigned  
252 (99.6%) exact matches, in which:  
247 unique CDR3  
13 unique J



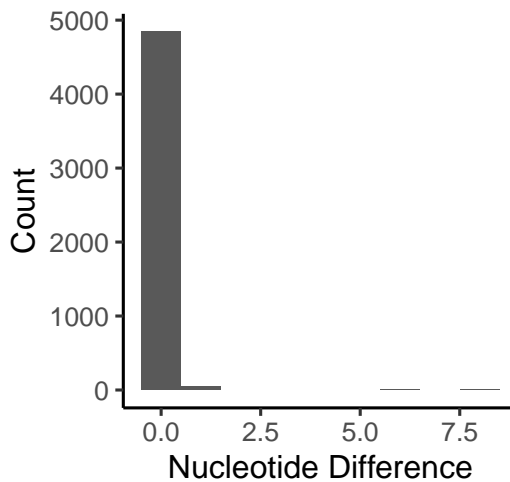
### TRBV9\*ap01

6828 sequences assigned  
6757 (99%) exact matches, in which:  
6604 unique CDR3  
13 unique J



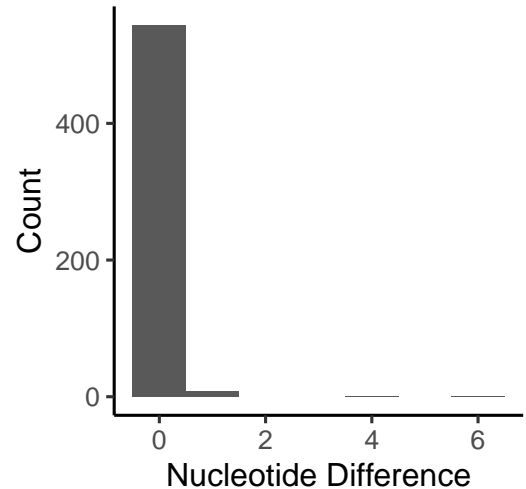
### TRBV11-2\*ap01

4896 sequences assigned  
4843 (98.9%) exact matches, in which:  
4739 unique CDR3  
13 unique J



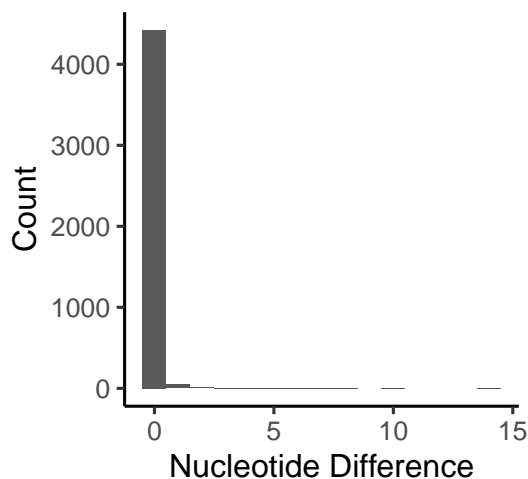
### TRBV12-2\*ap01

554 sequences assigned  
544 (98.2%) exact matches, in which:  
522 unique CDR3  
13 unique J



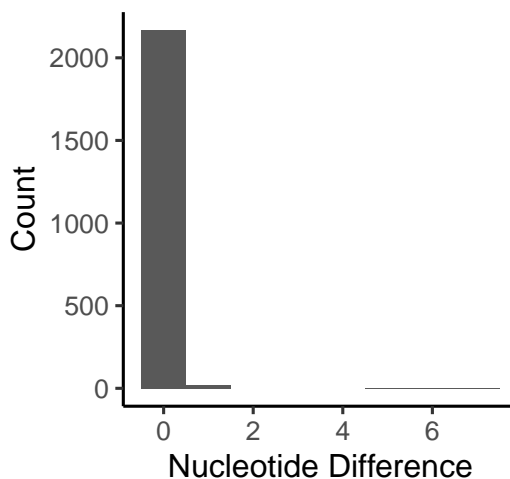
### TRBV21-1\*ap01

4500 sequences assigned  
4423 (98.3%) exact matches, in which:  
4311 unique CDR3  
13 unique J



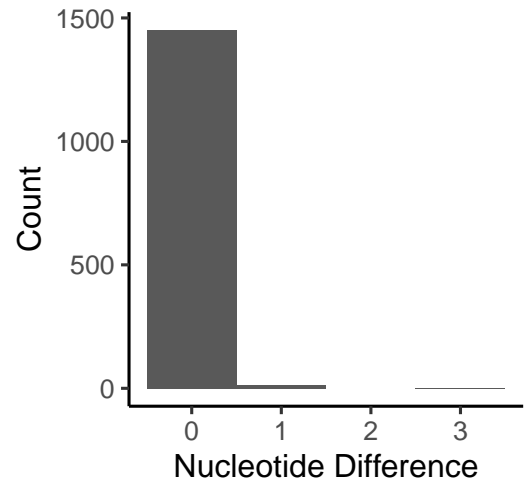
### TRBV11-3\*ap01

2194 sequences assigned  
2168 (98.8%) exact matches, in which:  
2127 unique CDR3  
13 unique J



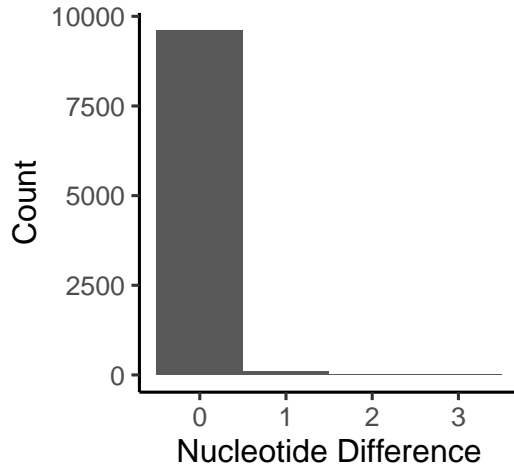
### TRBV12-5\*ap01

1466 sequences assigned  
1451 (99%) exact matches, in which:  
1421 unique CDR3  
13 unique J



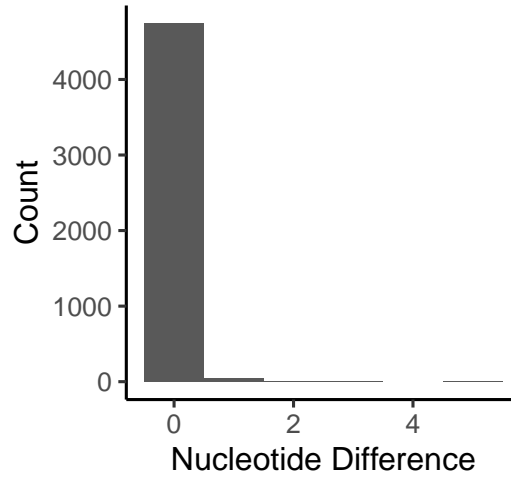
### TRBV12-34\*ap01

9720 sequences assigned  
9614 (98.9%) exact matches, in which:  
9412 unique CDR3  
13 unique J



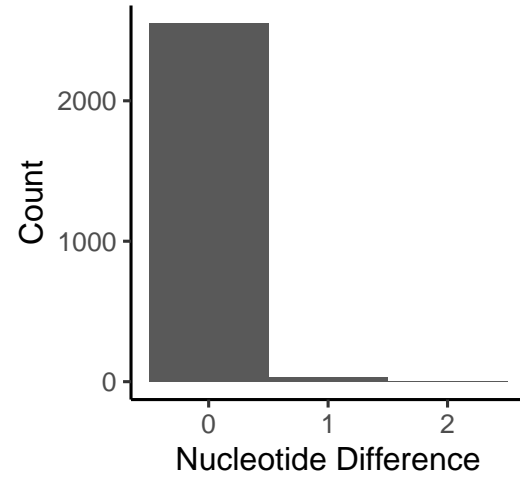
### TRBV4-1\*ap01

4787 sequences assigned  
4742 (99.1%) exact matches, in which:  
4645 unique CDR3  
13 unique J



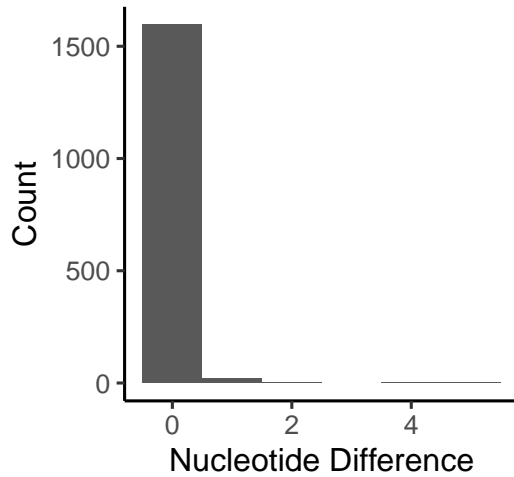
### TRBV4-3\*ap01

2588 sequences assigned  
2551 (98.6%) exact matches, in which:  
2488 unique CDR3  
13 unique J



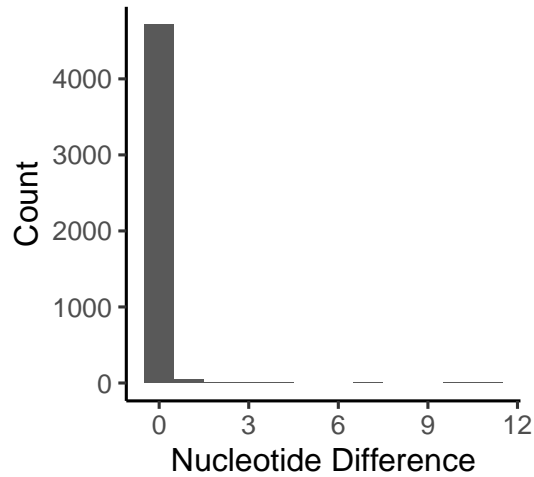
### TRBV23-1\*ap01

1618 sequences assigned  
1596 (98.6%) exact matches, in which:  
1565 unique CDR3  
13 unique J



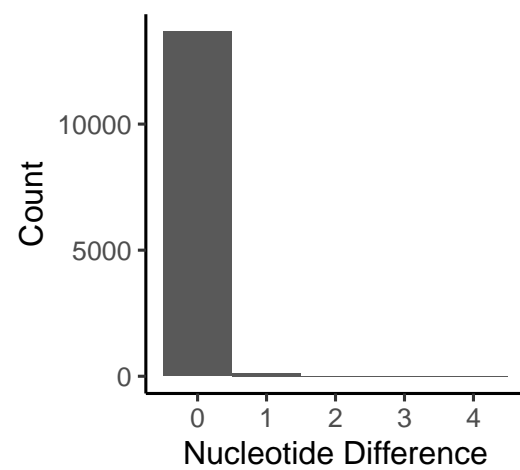
### TRBV24-1\*ap01

4775 sequences assigned  
4712 (98.7%) exact matches, in which:  
4644 unique CDR3  
13 unique J



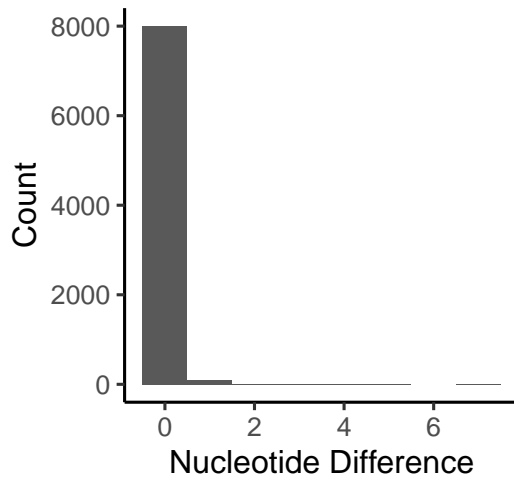
### TRBV5-1\*ap01

13822 sequences assigned  
13673 (98.9%) exact matches, in which:  
13372 unique CDR3  
13 unique J



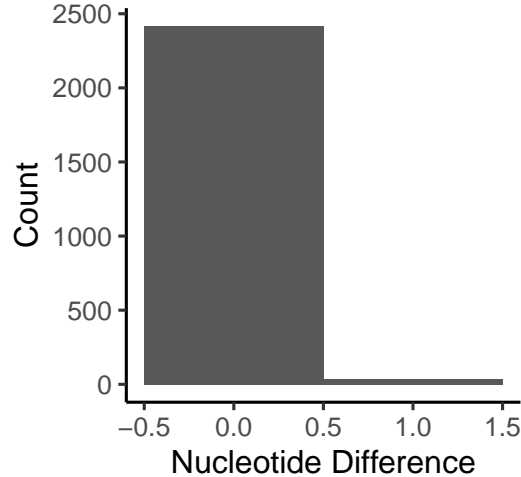
### TRBV3-12\*ap01

8111 sequences assigned  
8002 (98.7%) exact matches, in which:  
7865 unique CDR3  
13 unique J



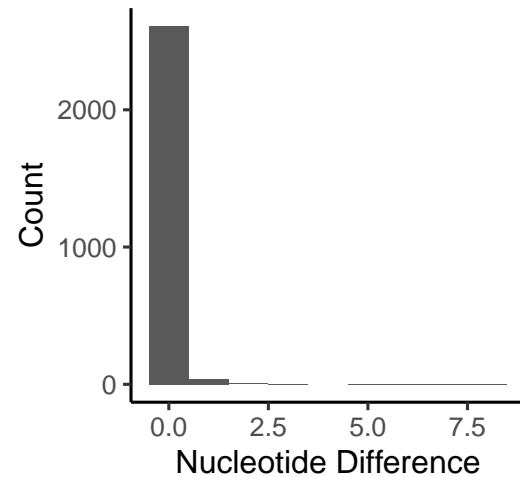
### TRBV4-2\*ap01

2454 sequences assigned  
2417 (98.5%) exact matches, in which:  
2373 unique CDR3  
13 unique J



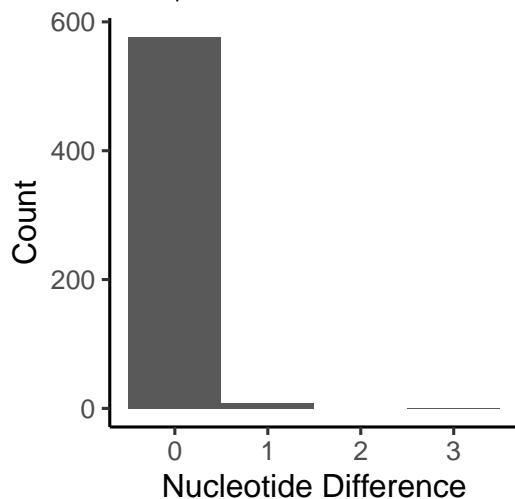
### TRBV25-1\*ap01

2660 sequences assigned  
2610 (98.1%) exact matches, in which:  
2578 unique CDR3  
13 unique J



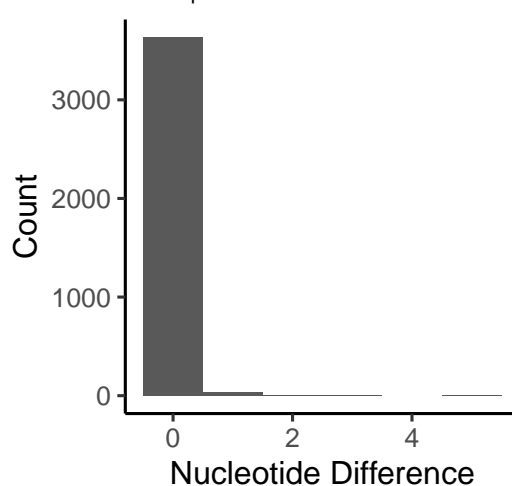
### TRBV5-3\*ap01

587 sequences assigned  
577 (98.3%) exact matches, in which:  
562 unique CDR3  
13 unique J



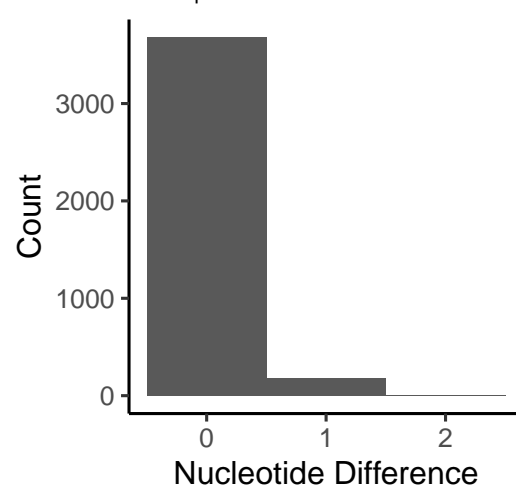
### TRBV5-6\*ap01

3672 sequences assigned  
3633 (98.9%) exact matches, in which:  
3551 unique CDR3  
13 unique J



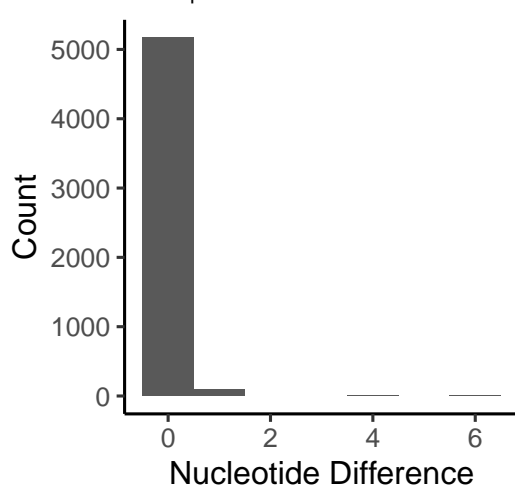
### TRBV6-1\*ap01

3863 sequences assigned  
3679 (95.2%) exact matches, in which:  
3599 unique CDR3  
13 unique J



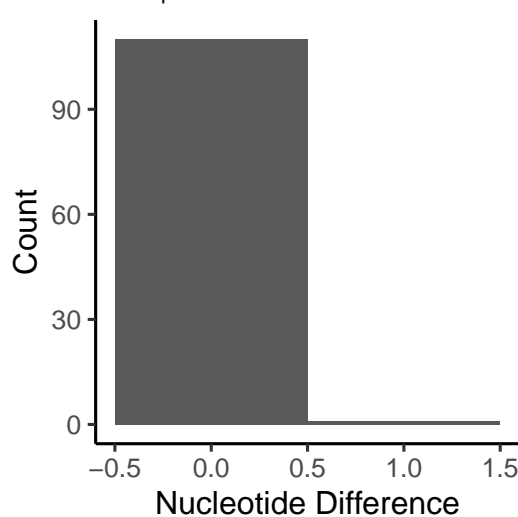
### TRBV5-4\*ap01

5264 sequences assigned  
5169 (98.2%) exact matches, in which:  
5072 unique CDR3  
13 unique J



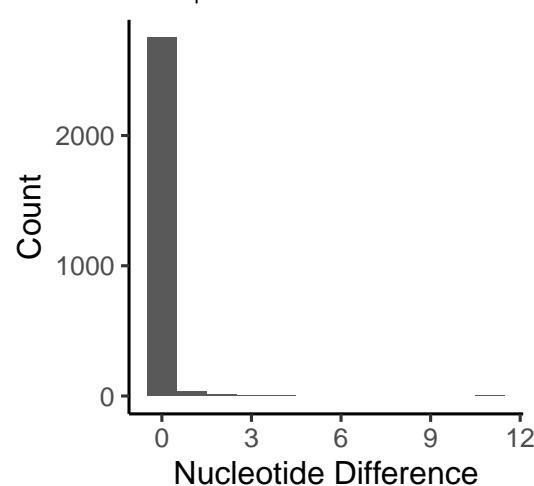
### TRBV5-7\*ap01

111 sequences assigned  
110 (99.1%) exact matches, in which:  
108 unique CDR3  
12 unique J



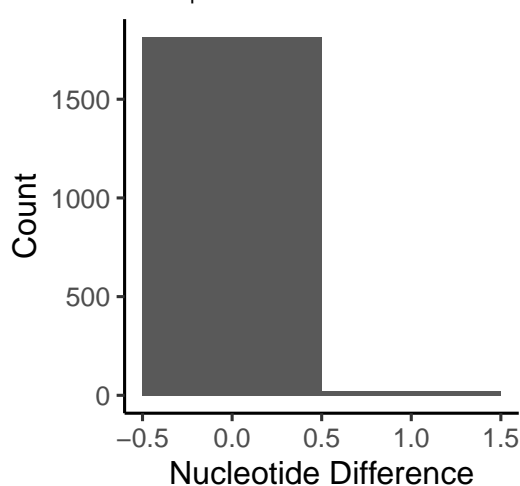
### TRBV6-4\*ap01

2802 sequences assigned  
2751 (98.2%) exact matches, in which:  
2702 unique CDR3  
13 unique J



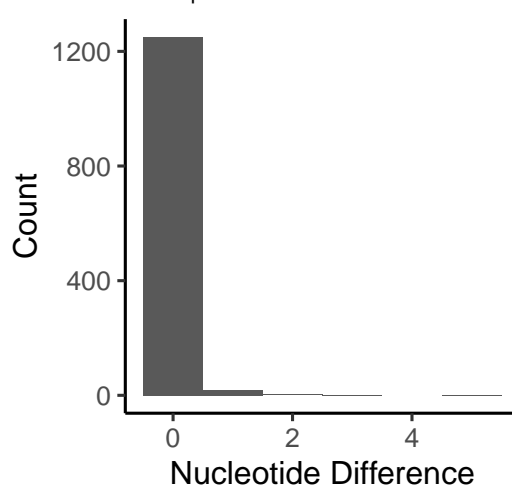
### TRBV5-5\*ap01

1836 sequences assigned  
1815 (98.9%) exact matches, in which:  
1777 unique CDR3  
13 unique J



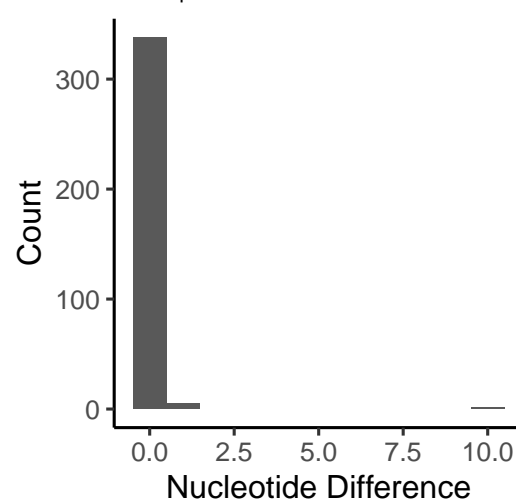
### TRBV5-8\*ap01

1274 sequences assigned  
1250 (98.1%) exact matches, in which:  
1220 unique CDR3  
13 unique J



### TRBV6-7\*ap01

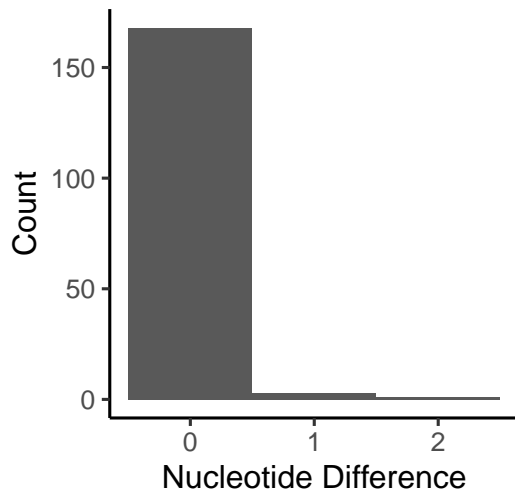
344 sequences assigned  
338 (98.3%) exact matches, in which:  
330 unique CDR3  
13 unique J





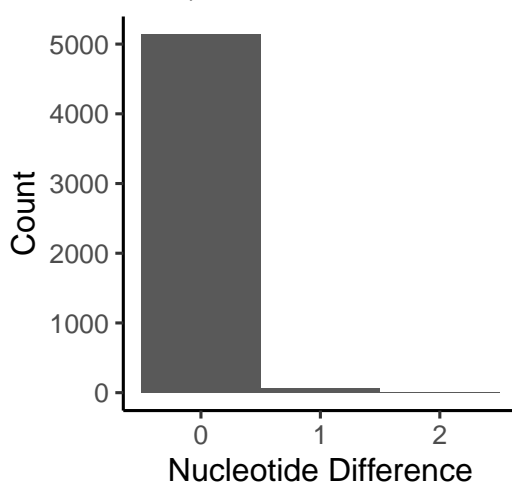
### TRBV6–8\*ap01

172 sequences assigned  
168 (97.7%) exact matches, in which:  
162 unique CDR3  
13 unique J



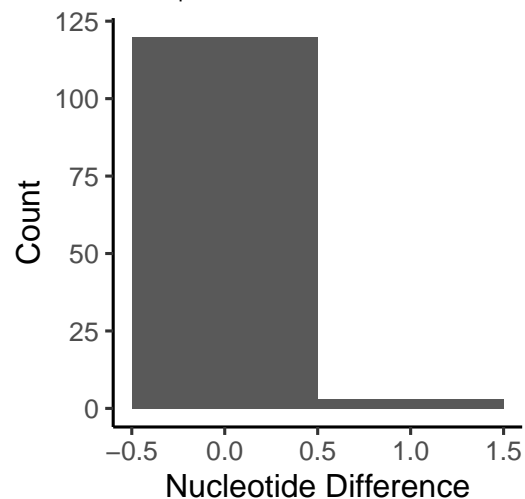
### TRBV6–56\*ap01

5207 sequences assigned  
5139 (98.7%) exact matches, in which:  
5040 unique CDR3  
14 unique J



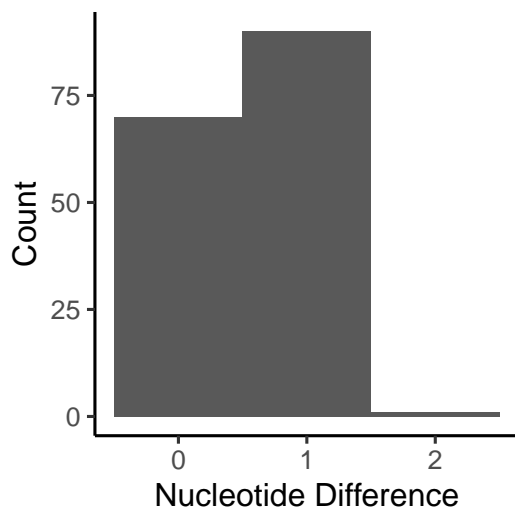
### TRBV7–1\*ap01\_G291C\_

123 sequences assigned  
120 (97.6%) exact matches, in which:  
115 unique CDR3  
12 unique J



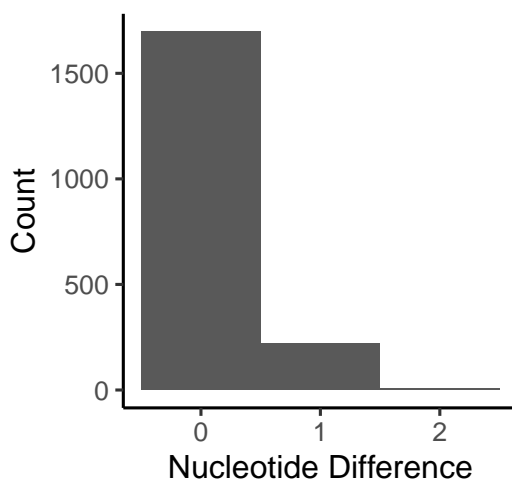
### TRBV6–9\*ap01

161 sequences assigned  
70 (43.5%) exact matches, in which:  
69 unique CDR3  
11 unique J



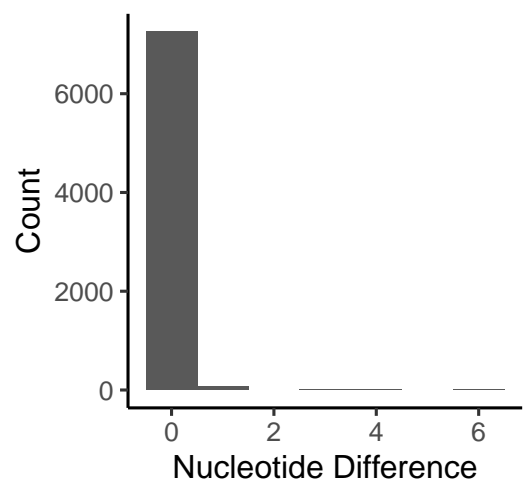
### TRBV6–56\*ap02

1922 sequences assigned  
1697 (88.3%) exact matches, in which:  
1662 unique CDR3  
13 unique J



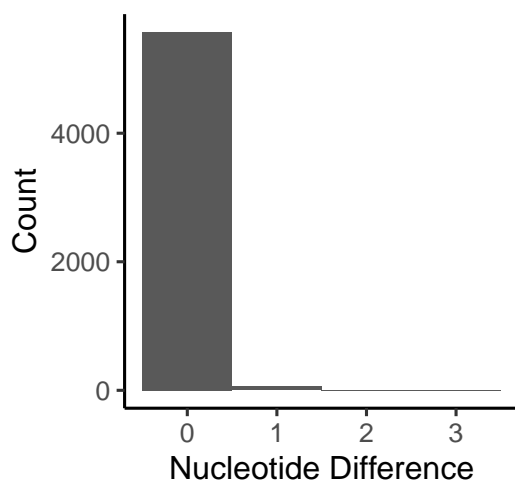
### TRBV7–2\*ap01

7328 sequences assigned  
7255 (99%) exact matches, in which:  
7089 unique CDR3  
13 unique J



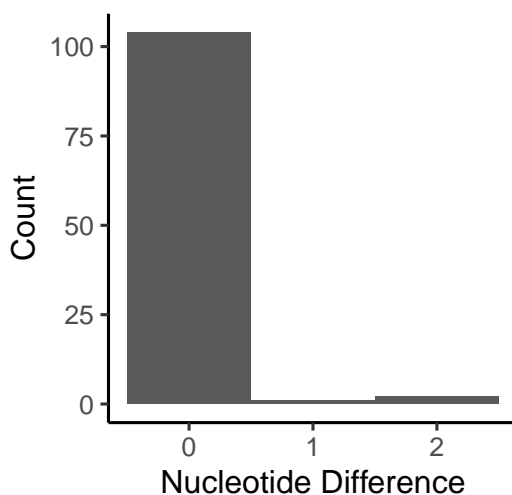
### TRBV6–23\*ap01

5639 sequences assigned  
5574 (98.8%) exact matches, in which:  
5461 unique CDR3  
13 unique J



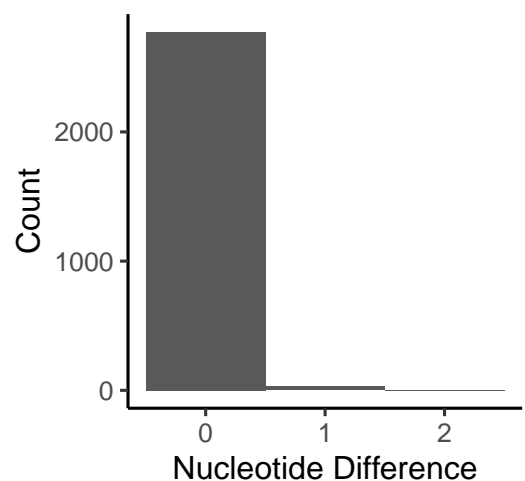
### TRBV7–1\*ap01\_G291C\_

107 sequences assigned  
104 (97.2%) exact matches, in which:  
102 unique CDR3  
12 unique J



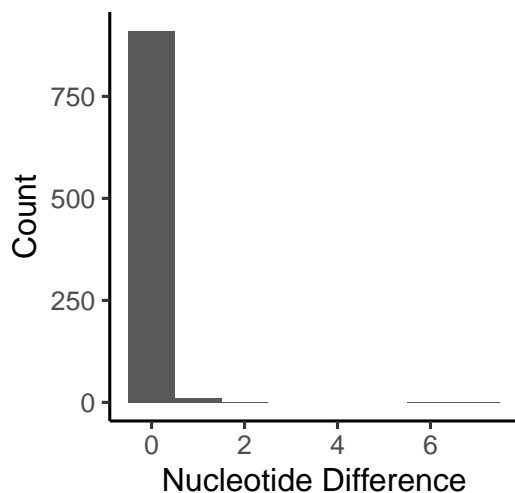
### TRBV7–3\*ap01

2804 sequences assigned  
2773 (98.9%) exact matches, in which:  
2707 unique CDR3  
13 unique J



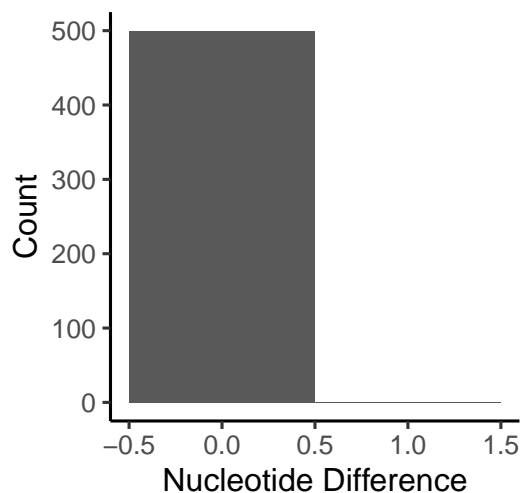
### TRBV7-3\*ap03

924 sequences assigned  
911 (98.6%) exact matches, in which:  
882 unique CDR3  
13 unique J



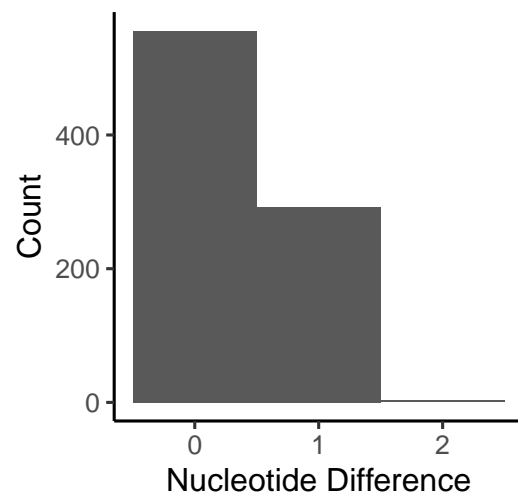
### TRBV7-7\*ap01

501 sequences assigned  
500 (99.8%) exact matches, in which:  
496 unique CDR3  
13 unique J



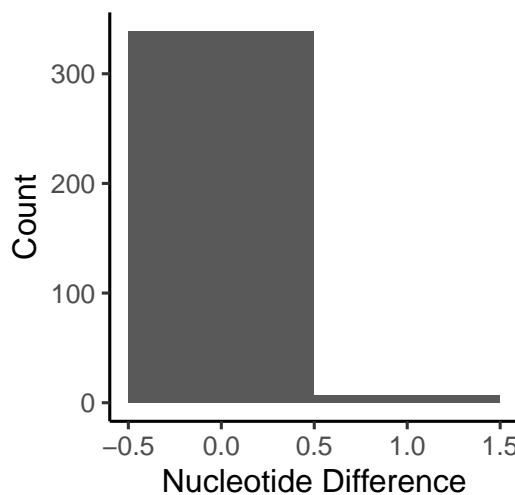
### TRBV7-8\*ap03

851 sequences assigned  
556 (65.3%) exact matches, in which:  
545 unique CDR3  
13 unique J



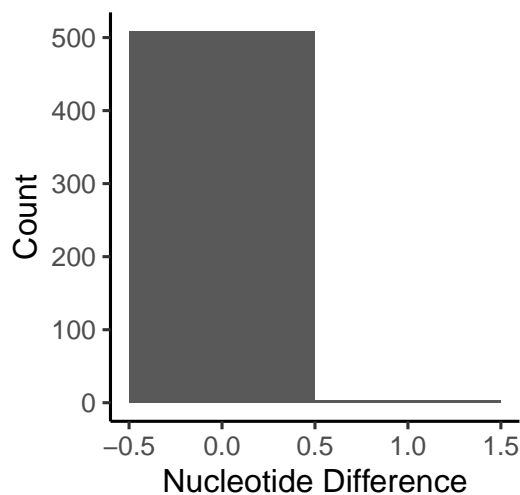
### TRBV7-4\*ap01

346 sequences assigned  
339 (98%) exact matches, in which:  
335 unique CDR3  
13 unique J



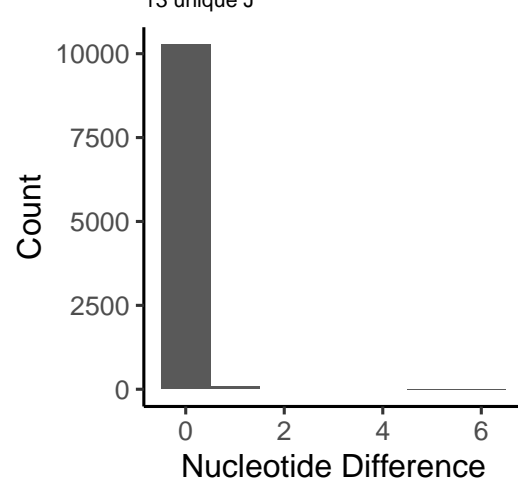
### TRBV7-7\*ap01\_C315T

512 sequences assigned  
509 (99.4%) exact matches, in which:  
499 unique CDR3  
13 unique J



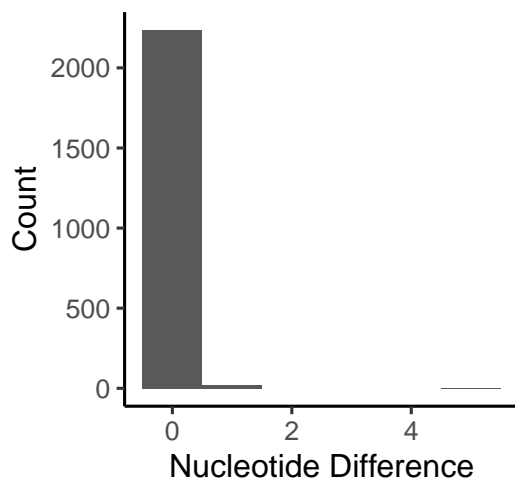
### TRBV7-9\*ap01

10365 sequences assigned  
10274 (99.1%) exact matches, in which:  
10076 unique CDR3  
13 unique J



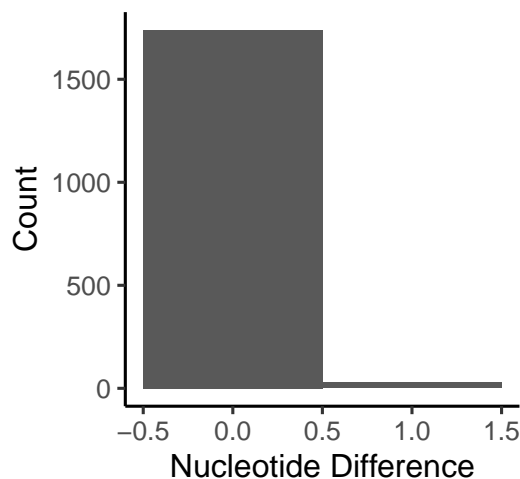
### TRBV7-6\*ap01

2260 sequences assigned  
2236 (98.9%) exact matches, in which:  
2194 unique CDR3  
13 unique J



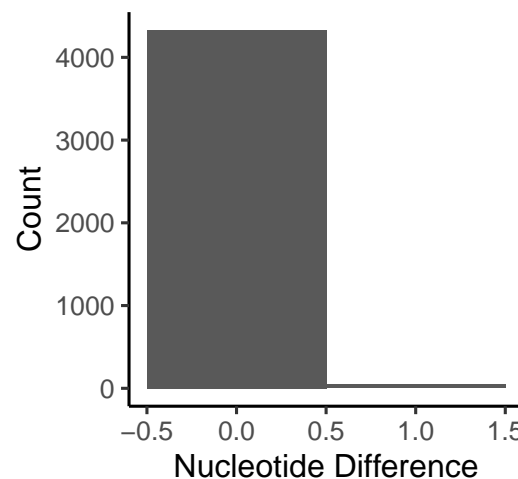
### TRBV7-8\*ap01

1768 sequences assigned  
1739 (98.4%) exact matches, in which:  
1704 unique CDR3  
13 unique J



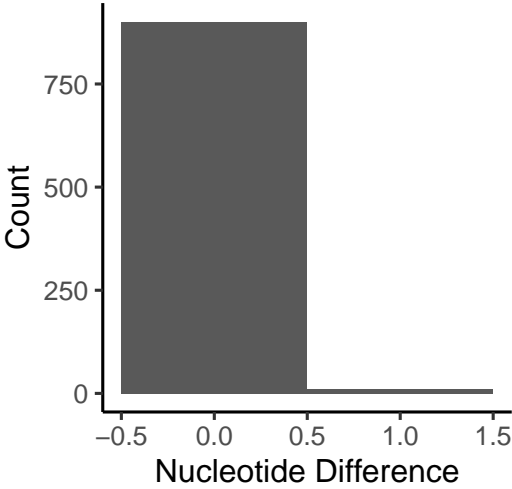
### TRBV29-1\*ap01

4377 sequences assigned  
4330 (98.9%) exact matches, in which:  
4276 unique CDR3  
13 unique J

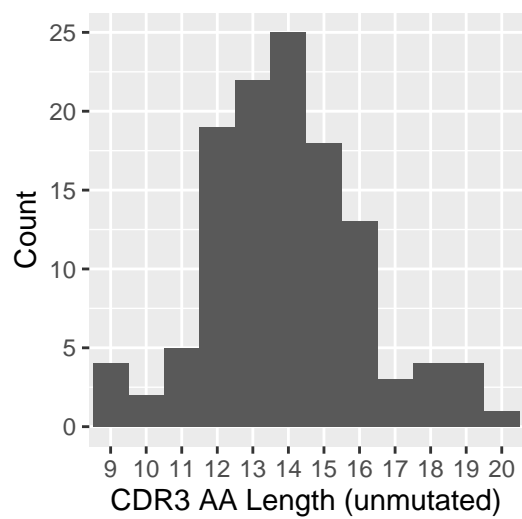


# TRBV29-1\*ap02

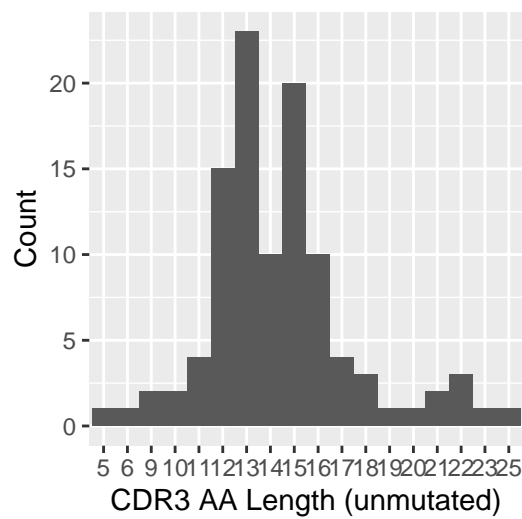
911 sequences assigned  
901 (98.9%) exact matches, in which:  
888 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

