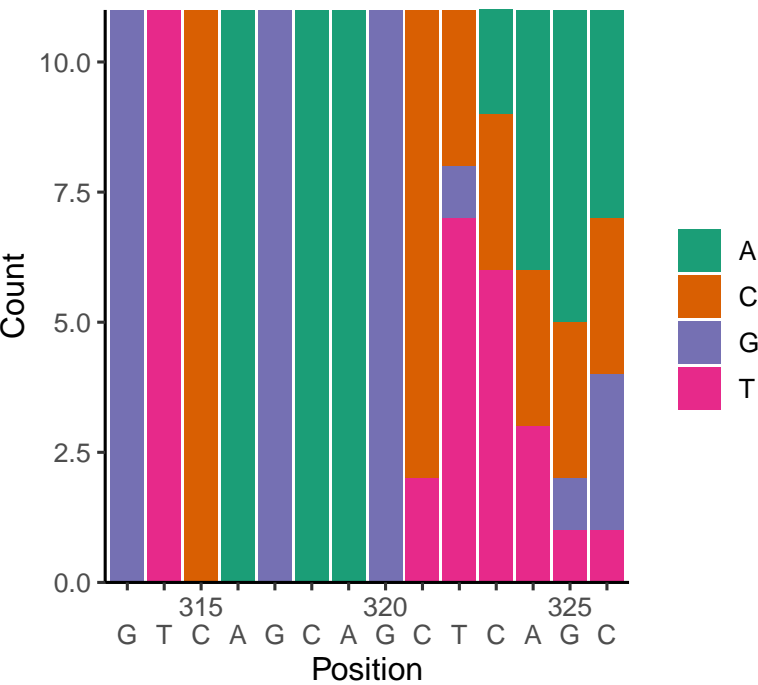
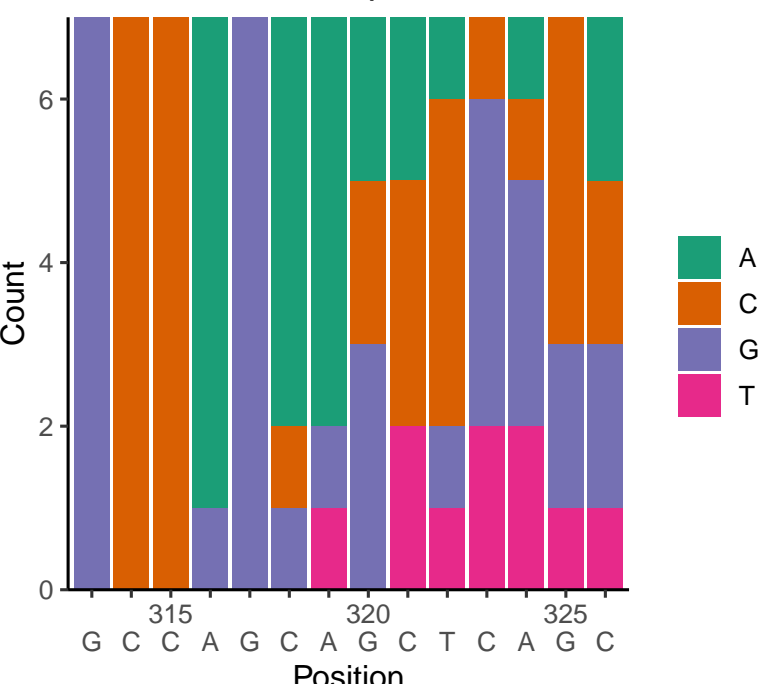


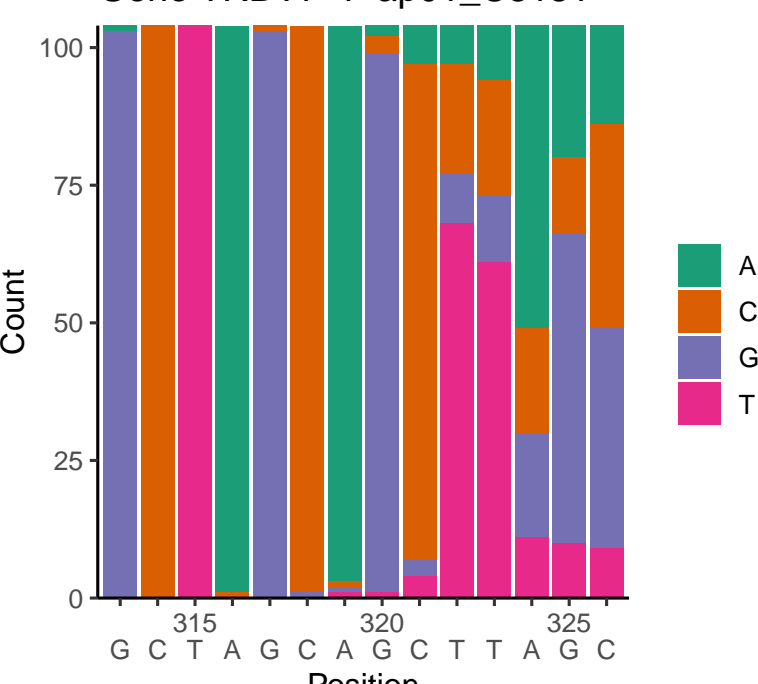
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



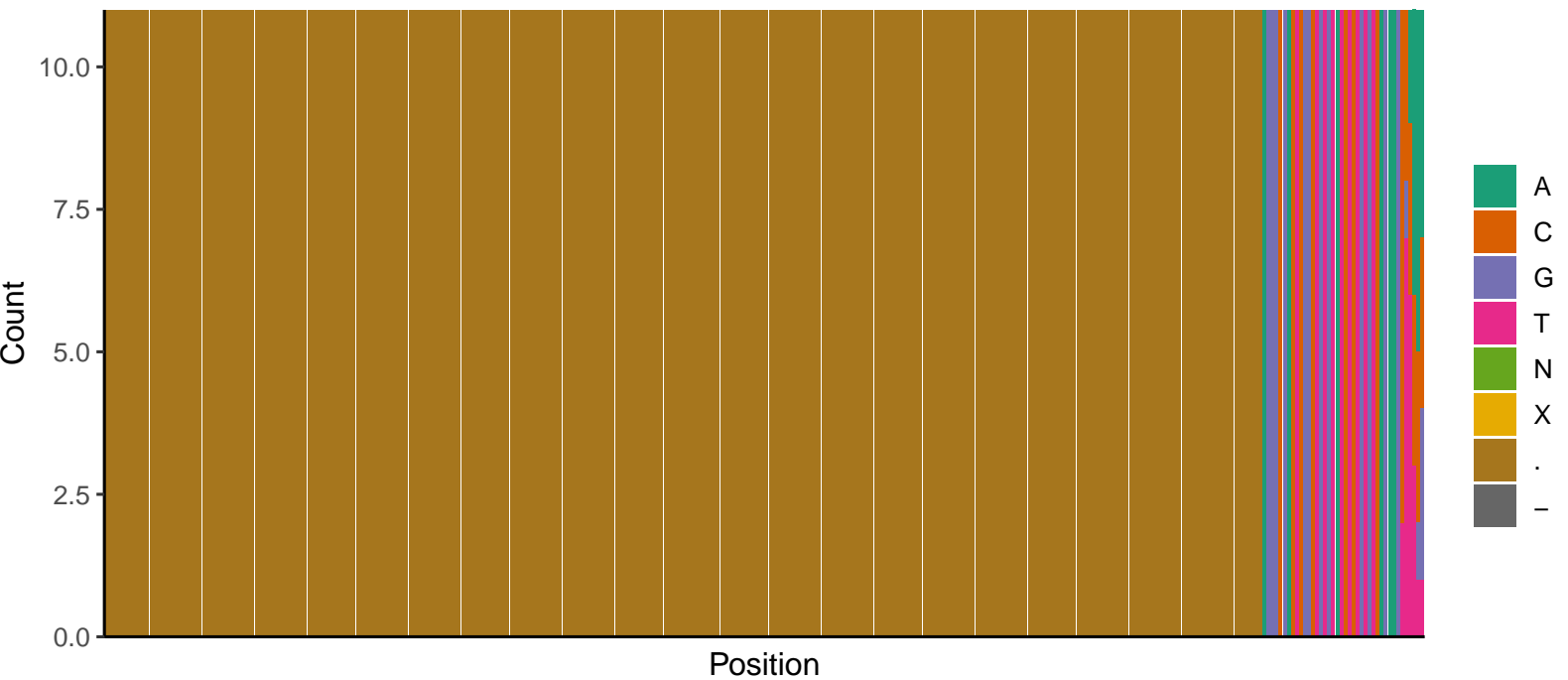
Gene TRBV7-1\*ap01\_G291C\_T296C



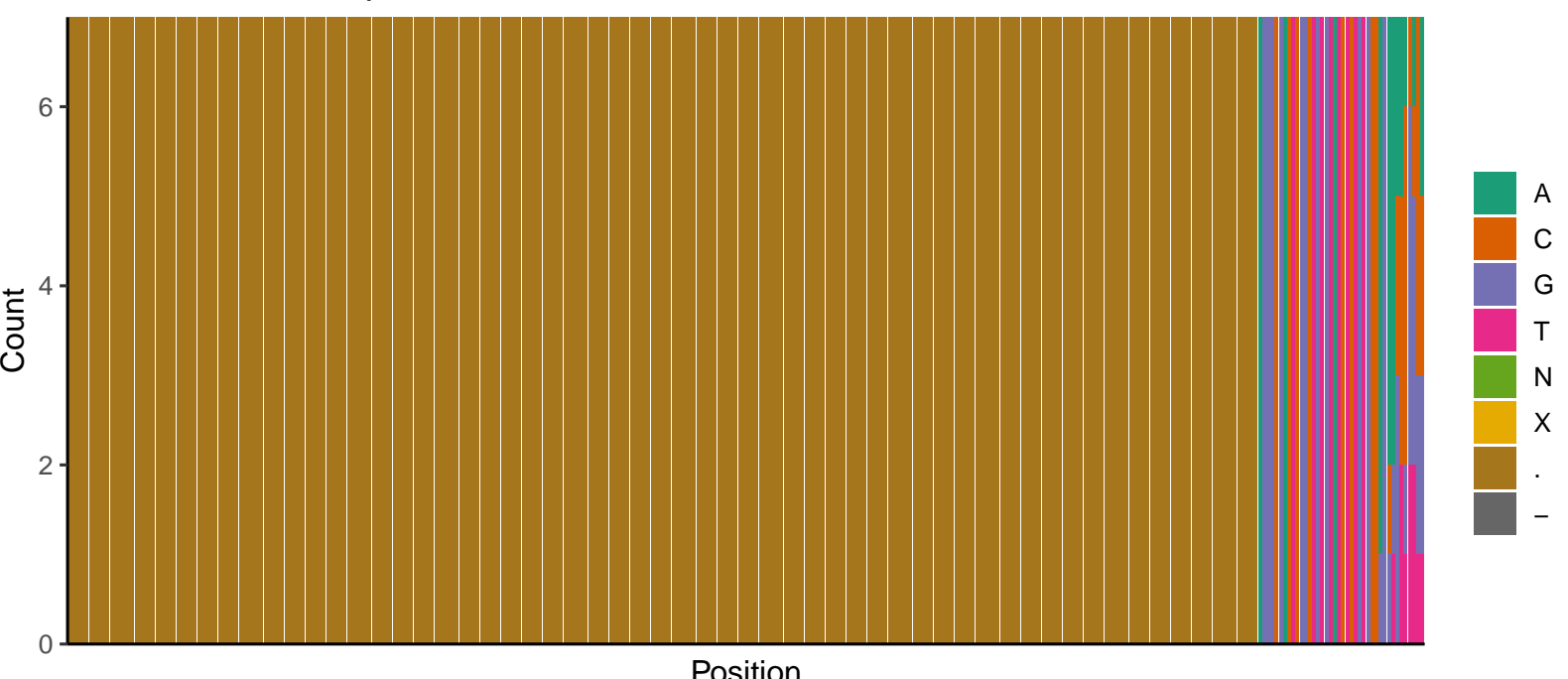
Gene TRBV7-7\*ap01\_C315T



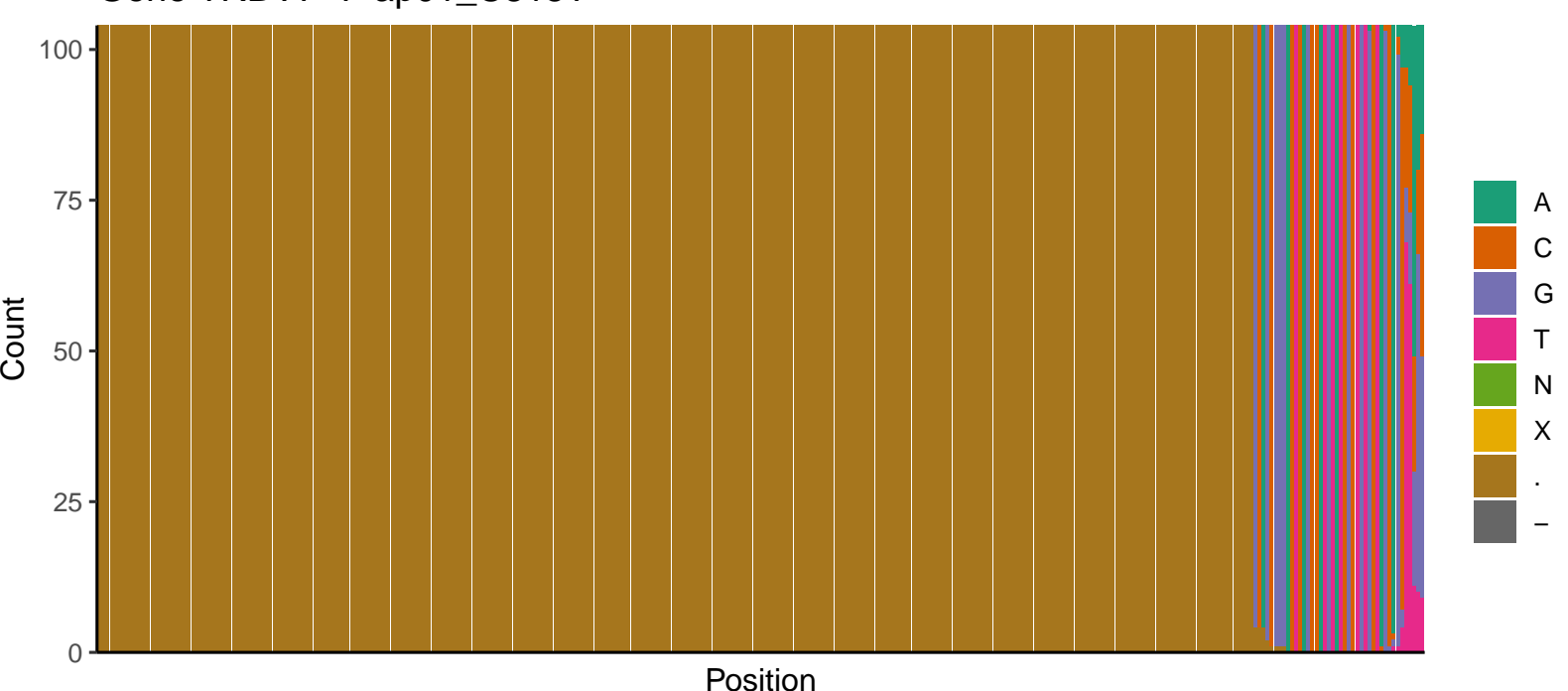
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



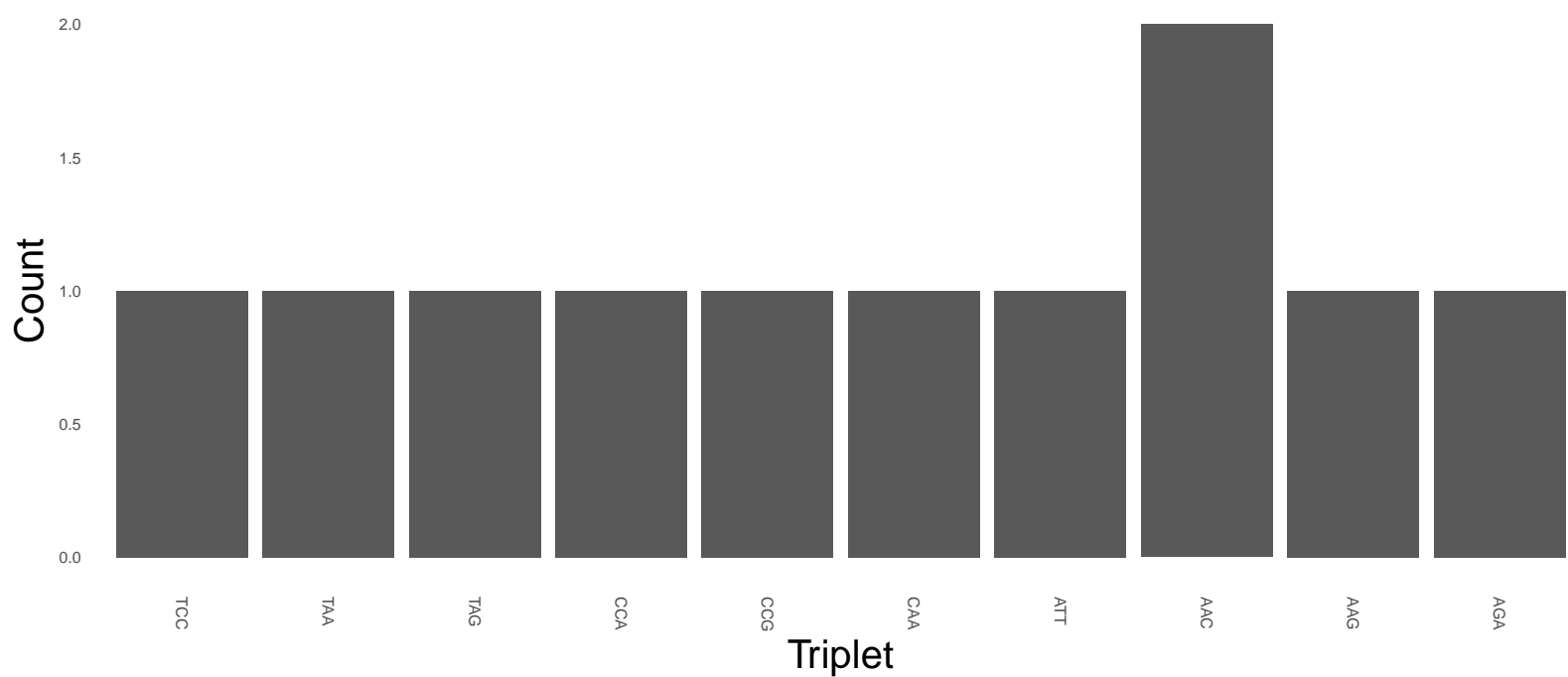
Gene TRBV7-1\*ap01\_G291C\_T296C



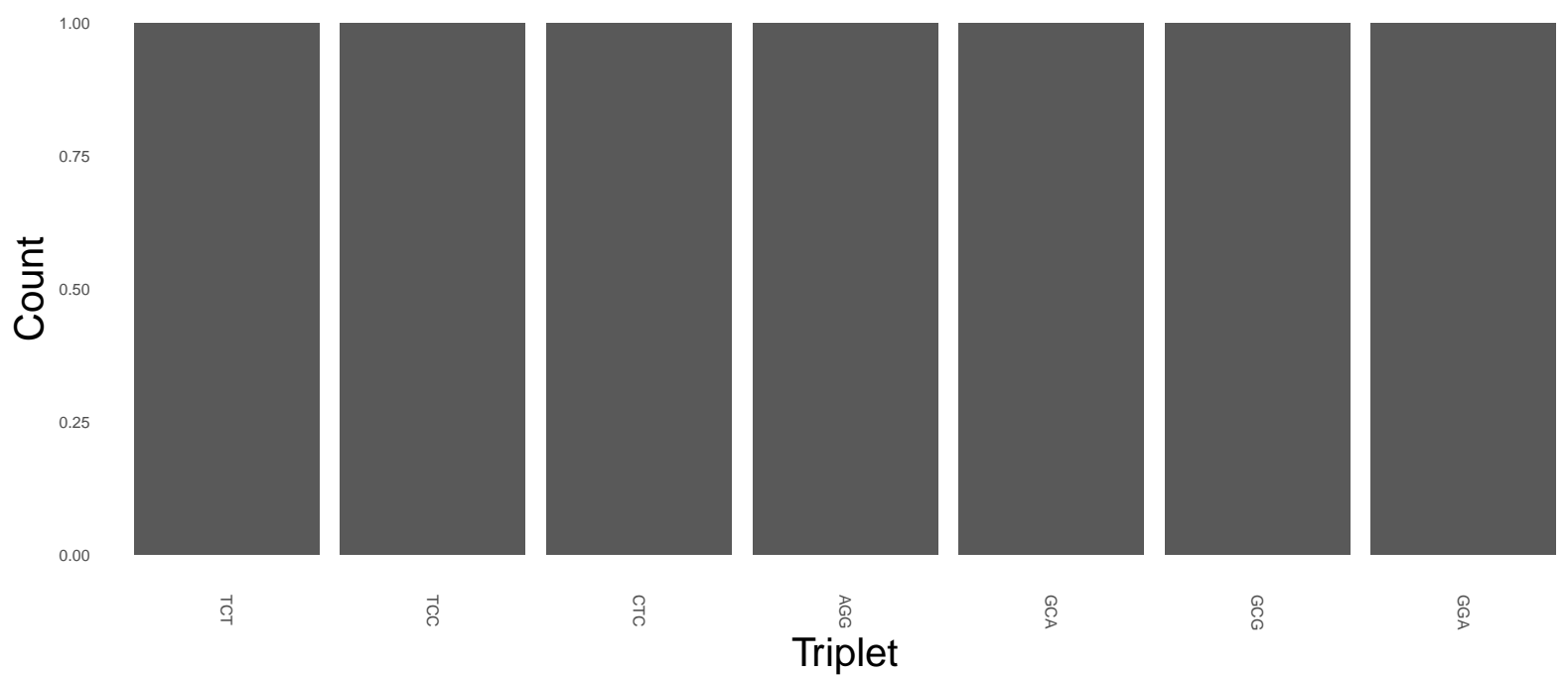
Gene TRBV7-7\*ap01\_C315T



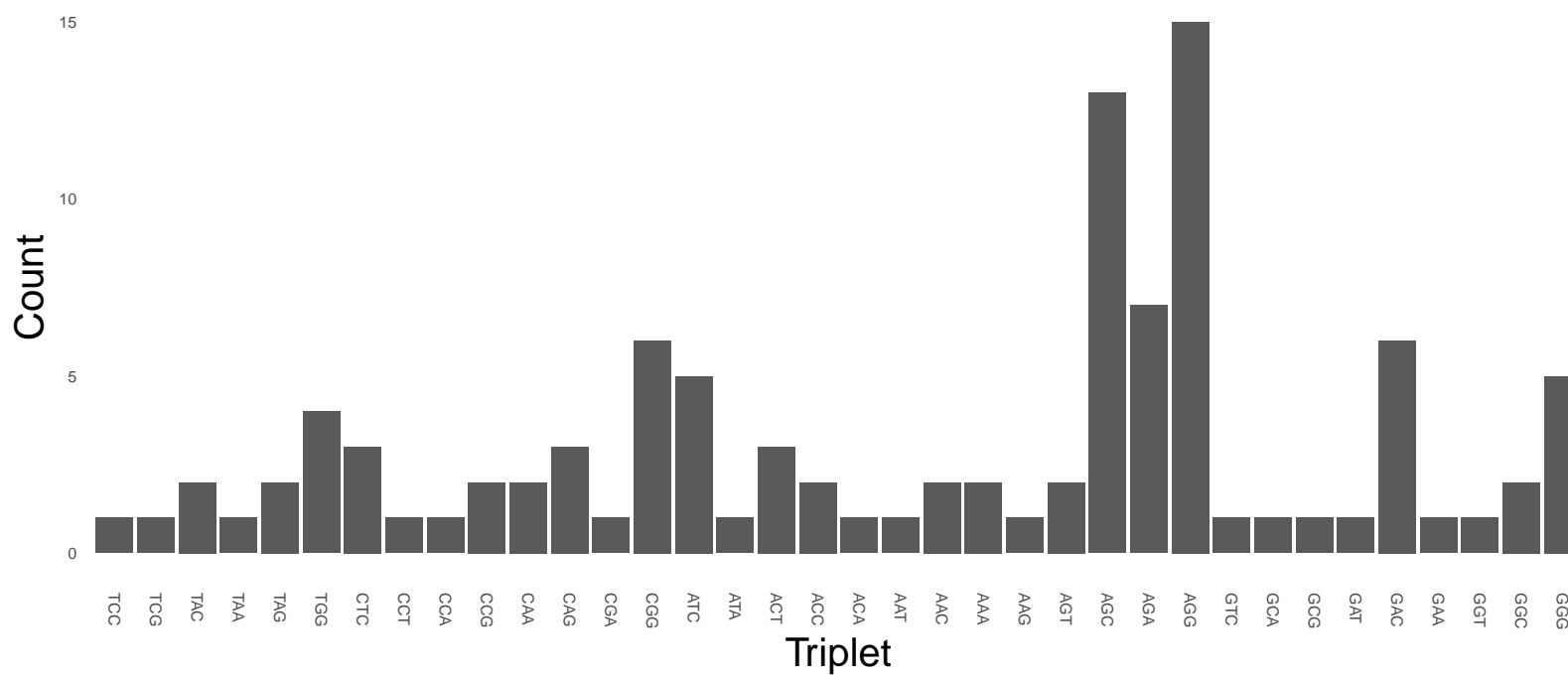
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

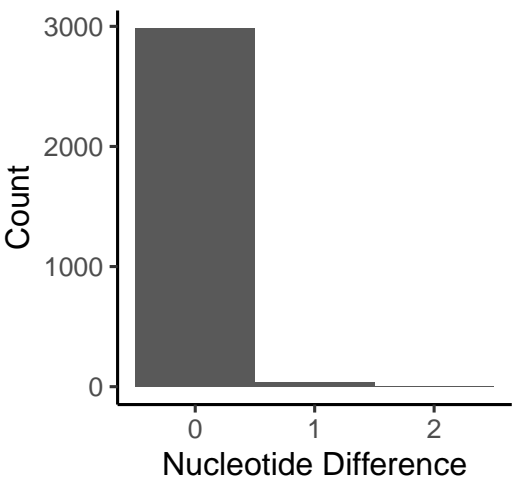


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



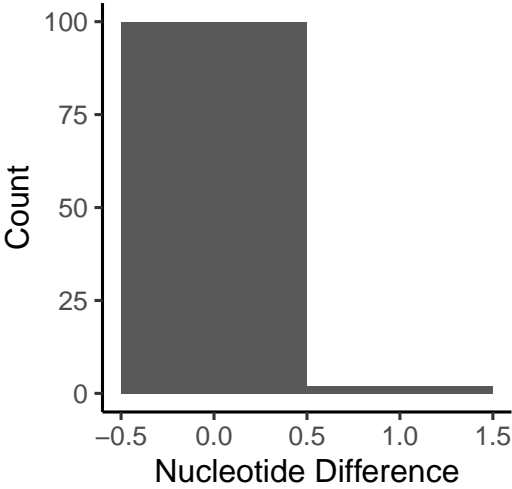
TRBV20–1\*ap01

3019 sequences assigned  
2983 (98.8%) exact matches, in which:  
2934 unique CDR3  
13 unique J



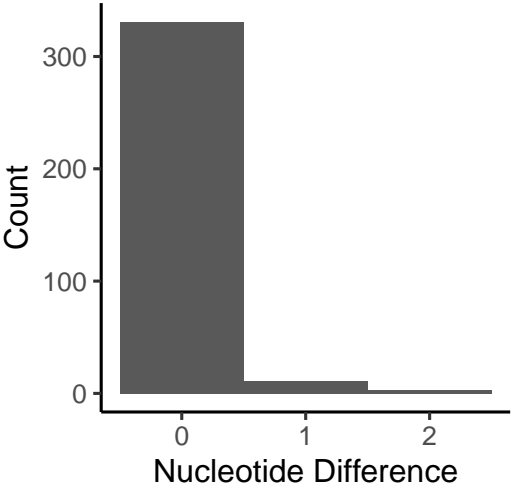
TRBV10–2\*ap01

102 sequences assigned  
100 (98%) exact matches, in which:  
98 unique CDR3  
12 unique J



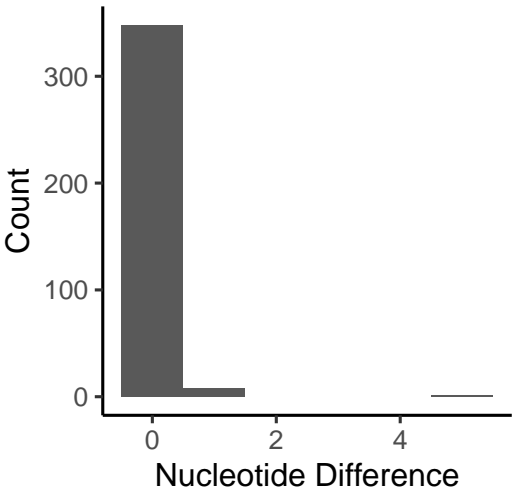
TRBV13\*ap01

345 sequences assigned  
331 (95.9%) exact matches, in which:  
330 unique CDR3  
12 unique J



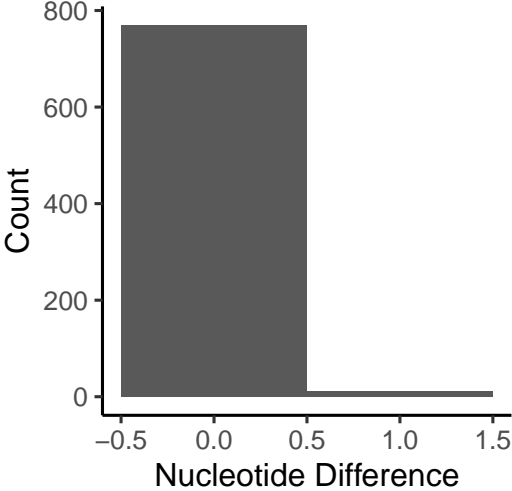
TRBV10–1\*ap01

357 sequences assigned  
348 (97.5%) exact matches, in which:  
347 unique CDR3  
12 unique J



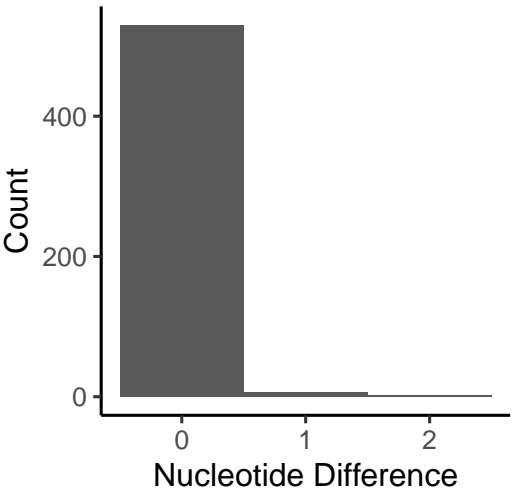
TRBV10–3\*ap01

782 sequences assigned  
770 (98.5%) exact matches, in which:  
761 unique CDR3  
13 unique J



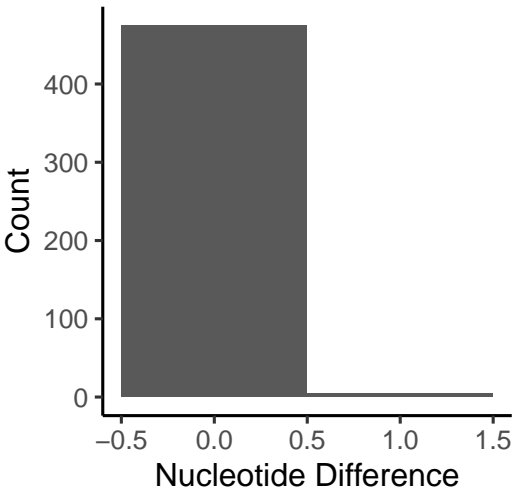
TRBV14\*ap01

539 sequences assigned  
530 (98.3%) exact matches, in which:  
528 unique CDR3  
13 unique J



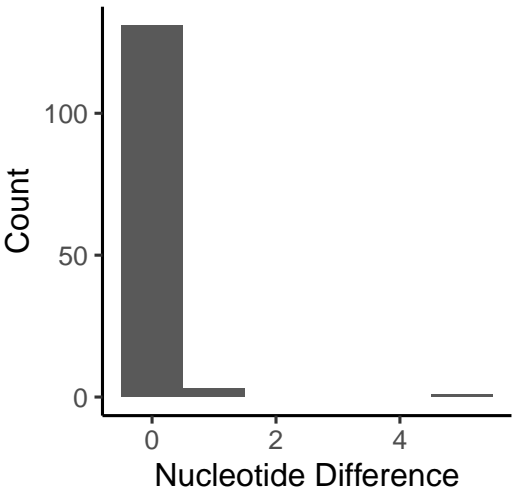
TRBV20–1\*ap02

480 sequences assigned  
475 (99%) exact matches, in which:  
463 unique CDR3  
13 unique J



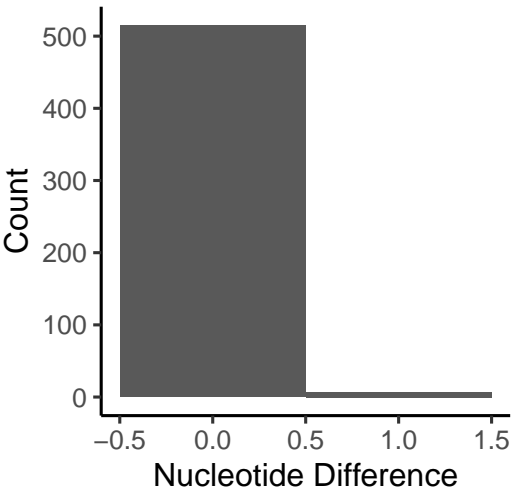
TRBV1\*ap01

135 sequences assigned  
131 (97%) exact matches, in which:  
128 unique CDR3  
12 unique J



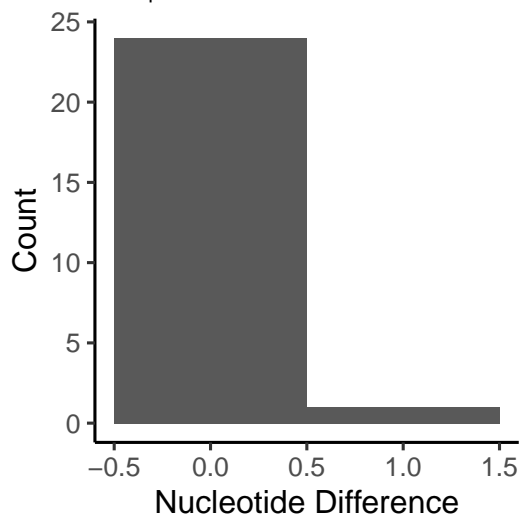
TRBV15\*ap02

522 sequences assigned  
515 (98.7%) exact matches, in which:  
510 unique CDR3  
12 unique J



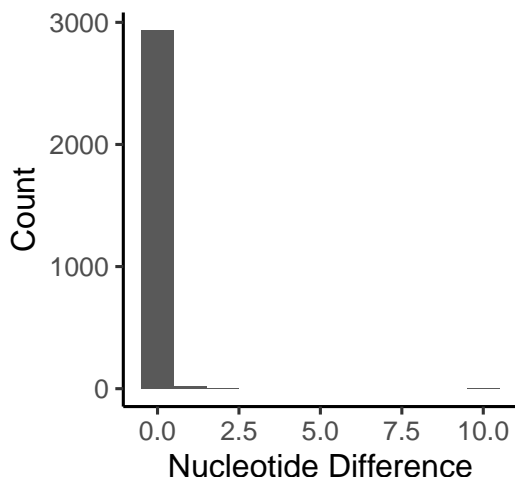
### TRBV16\*ap01

25 sequences assigned  
24 (96%) exact matches, in which:  
24 unique CDR3  
7 unique J



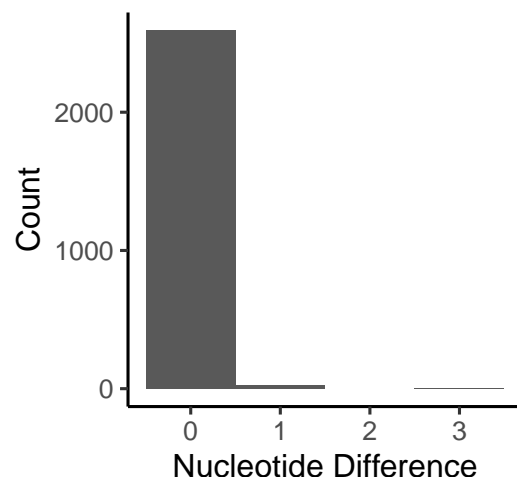
### TRBV19\*ap01

2954 sequences assigned  
2934 (99.3%) exact matches, in which:  
2903 unique CDR3  
13 unique J



### TRBV28\*ap01

2615 sequences assigned  
2592 (99.1%) exact matches, in which:  
2573 unique CDR3  
13 unique J



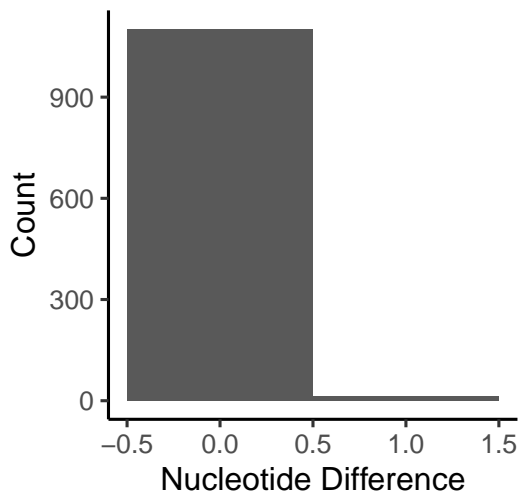
### TRBV17\*ap01

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



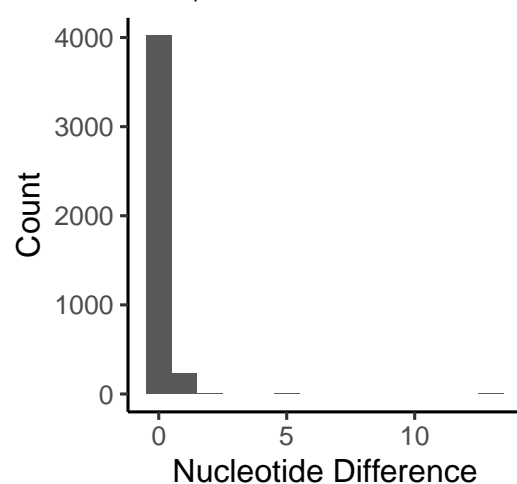
### TRBV2\*ap01

1115 sequences assigned  
1102 (98.8%) exact matches, in which:  
1090 unique CDR3  
13 unique J



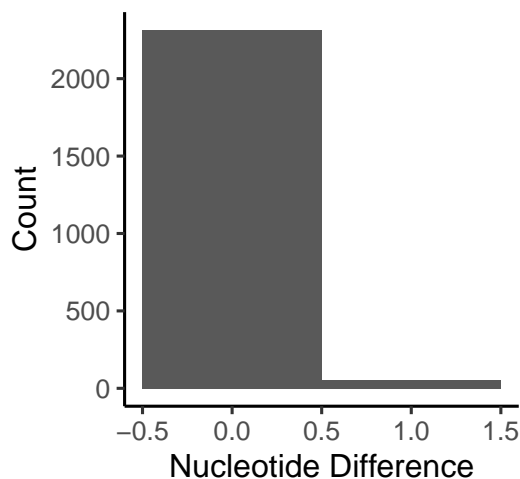
### TRBV30\*ap01

4258 sequences assigned  
4020 (94.4%) exact matches, in which:  
3865 unique CDR3  
13 unique J



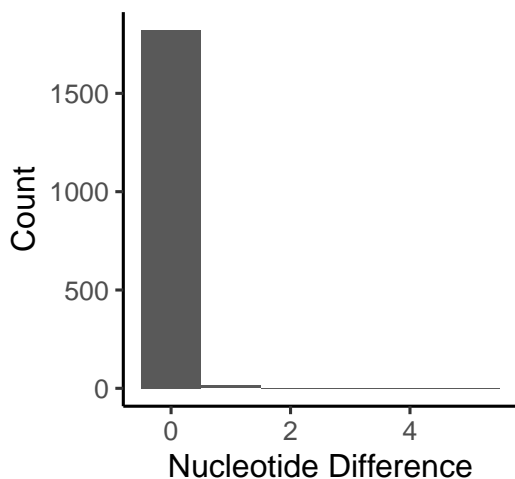
### TRBV18\*ap01

2366 sequences assigned  
2314 (97.8%) exact matches, in which:  
2278 unique CDR3  
13 unique J



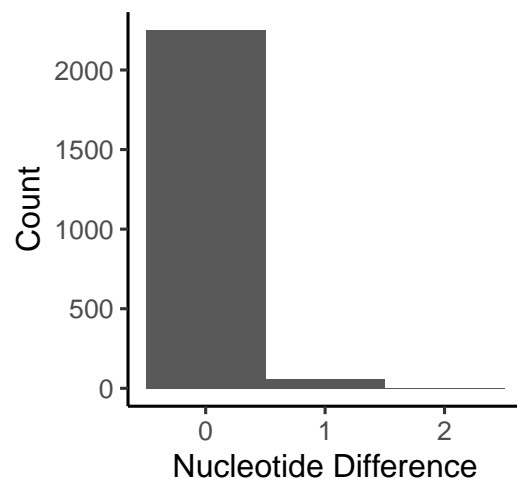
### TRBV27\*ap01

1843 sequences assigned  
1822 (98.9%) exact matches, in which:  
1797 unique CDR3  
13 unique J



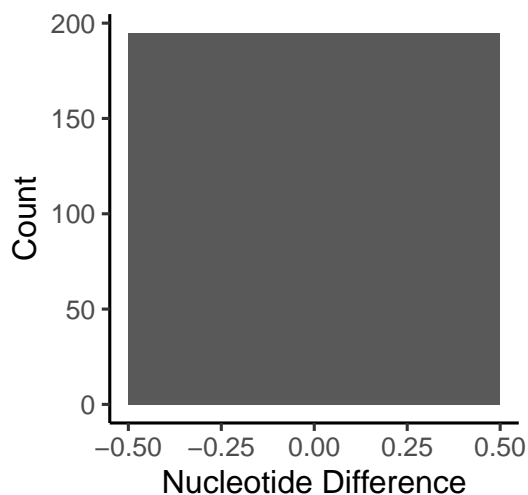
### TRBV9\*ap01

2309 sequences assigned  
2251 (97.5%) exact matches, in which:  
2226 unique CDR3  
13 unique J



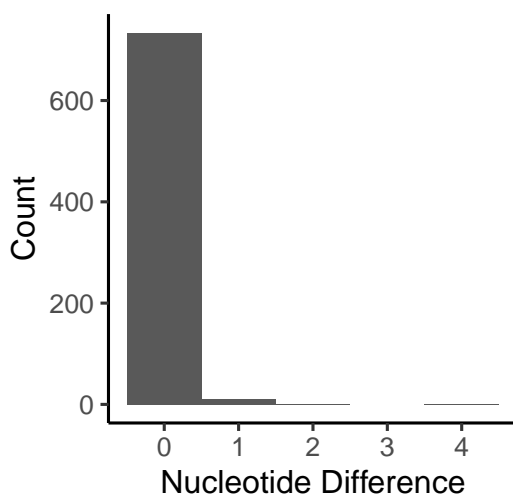
### TRBV11–1\*ap01

195 sequences assigned  
195 (100%) exact matches, in which:  
192 unique CDR3  
12 unique J



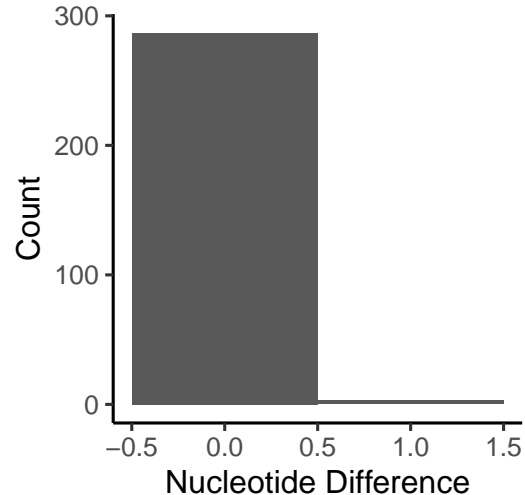
### TRBV11–3\*ap01

747 sequences assigned  
734 (98.3%) exact matches, in which:  
729 unique CDR3  
12 unique J



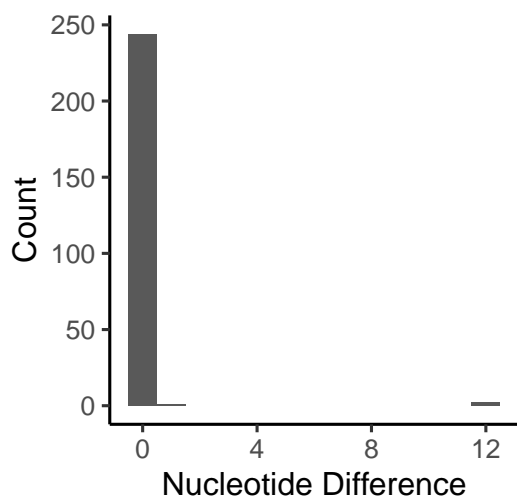
### TRBV12–5\*ap01

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



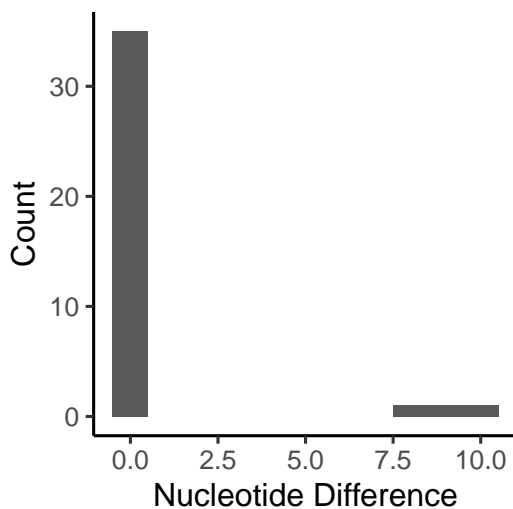
### TRBV21–1\*ap01

247 sequences assigned  
244 (98.8%) exact matches, in which:  
244 unique CDR3  
12 unique J



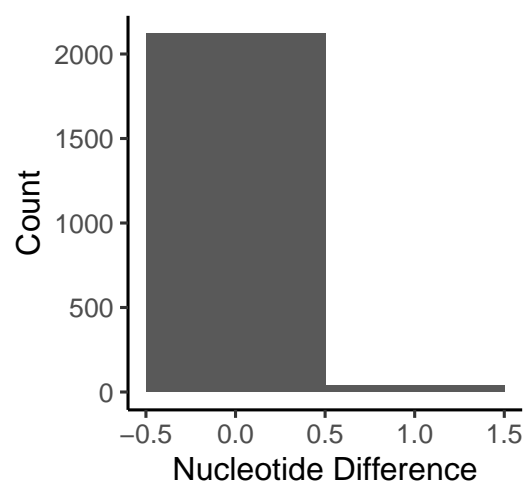
### TRBV12–1\*ap01

38 sequences assigned  
35 (92.1%) exact matches, in which:  
34 unique CDR3  
10 unique J



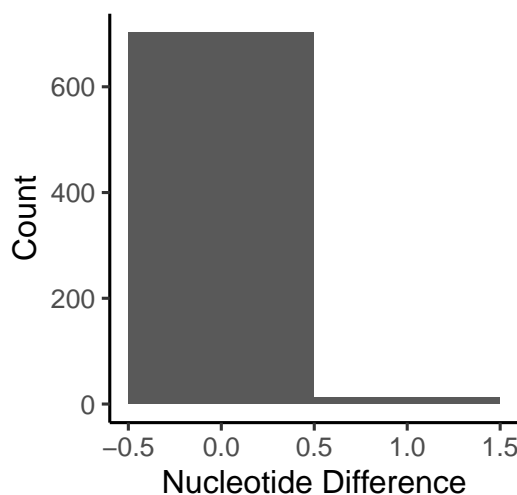
### TRBV12–34\*ap01

2157 sequences assigned  
2120 (98.3%) exact matches, in which:  
2103 unique CDR3  
13 unique J



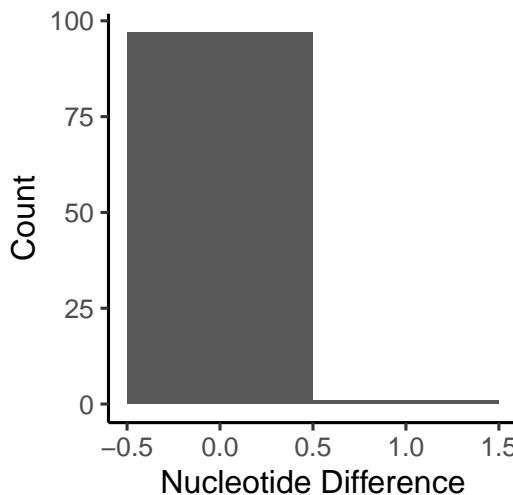
### TRBV11–2\*ap01

715 sequences assigned  
703 (98.3%) exact matches, in which:  
692 unique CDR3  
12 unique J



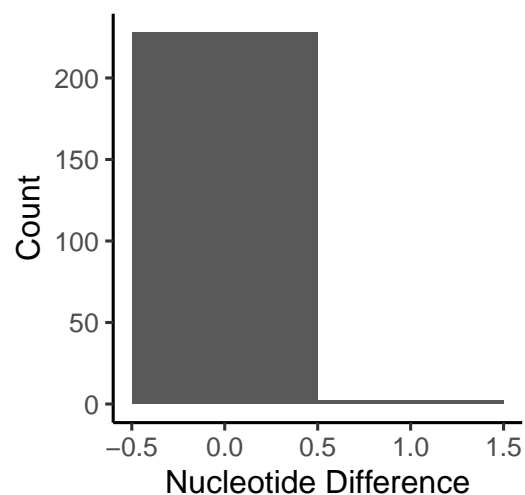
### TRBV12–2\*ap01

98 sequences assigned  
97 (99%) exact matches, in which:  
97 unique CDR3  
12 unique J



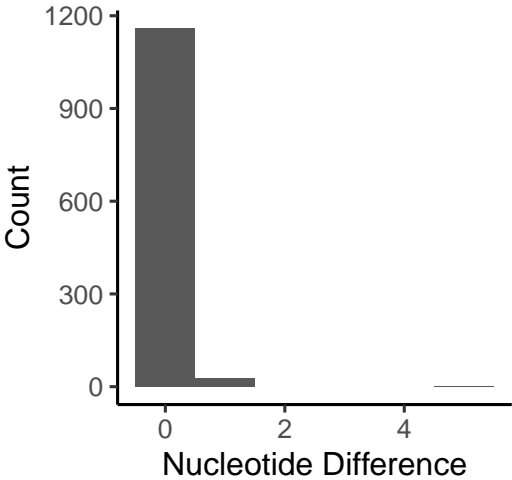
### TRBV23–1\*ap01

230 sequences assigned  
228 (99.1%) exact matches, in which:  
228 unique CDR3  
13 unique J



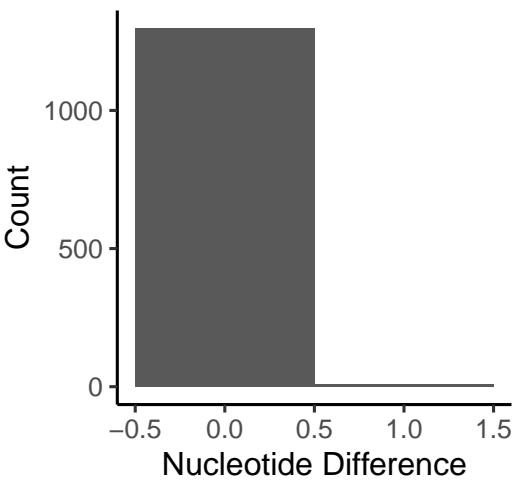
TRBV3-12\*ap01

1190 sequences assigned  
1159 (97.4%) exact matches, in which:  
1147 unique CDR3  
13 unique J



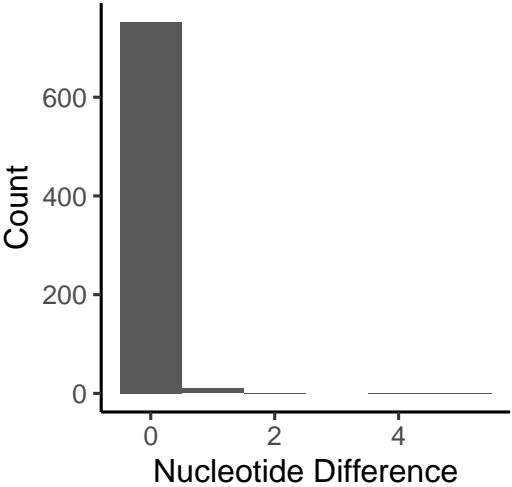
TRBV4-2\*ap01

1306 sequences assigned  
1297 (99.3%) exact matches, in which:  
1275 unique CDR3  
13 unique J



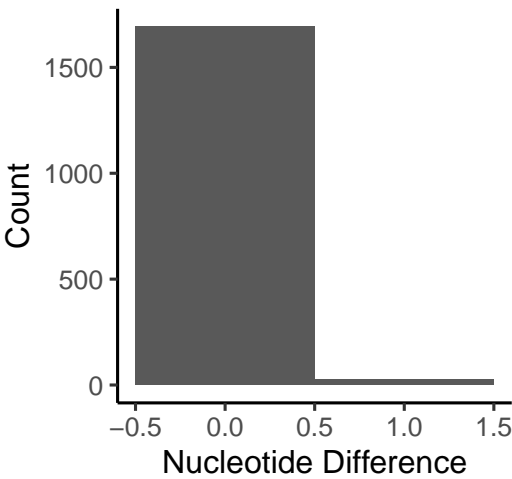
TRBV25-1\*ap01

766 sequences assigned  
753 (98.3%) exact matches, in which:  
740 unique CDR3  
13 unique J



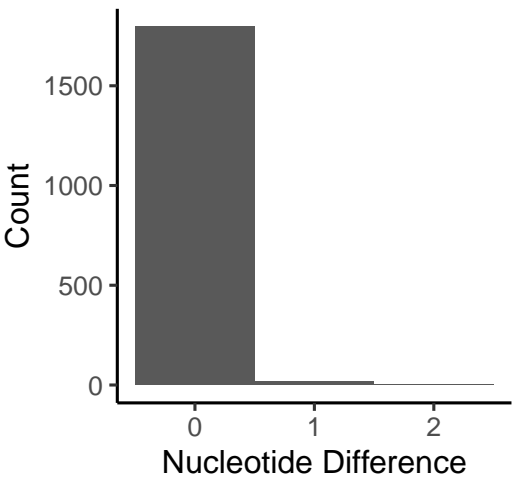
TRBV24-1\*ap01

1716 sequences assigned  
1692 (98.6%) exact matches, in which:  
1682 unique CDR3  
13 unique J



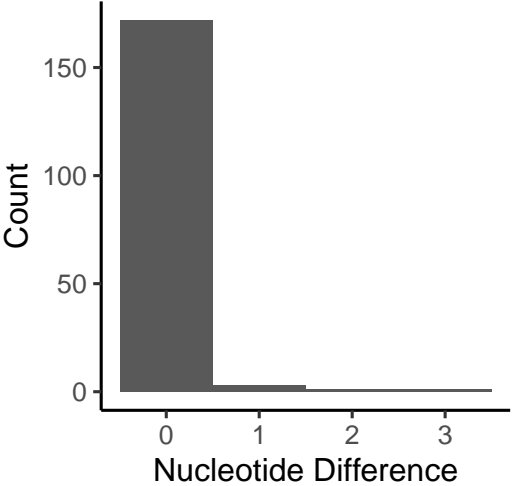
TRBV4-3\*ap01

1815 sequences assigned  
1796 (99%) exact matches, in which:  
1770 unique CDR3  
13 unique J



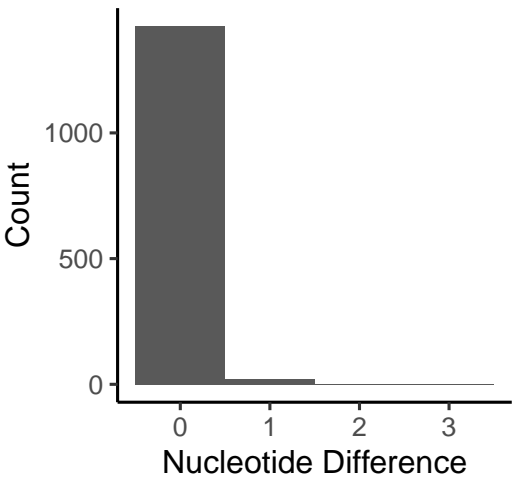
TRBV5-3\*ap01

177 sequences assigned  
172 (97.2%) exact matches, in which:  
169 unique CDR3  
12 unique J



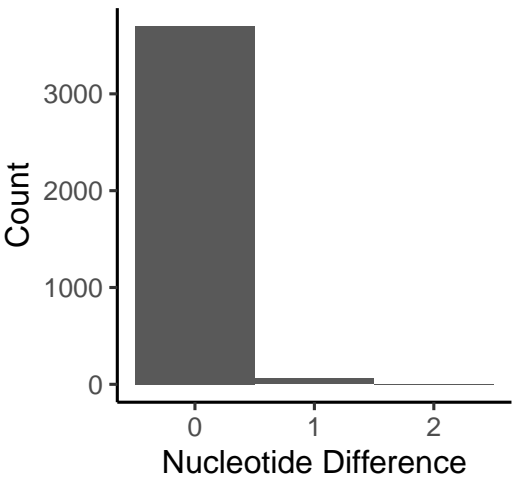
TRBV4-1\*ap01

1448 sequences assigned  
1425 (98.4%) exact matches, in which:  
1410 unique CDR3  
13 unique J



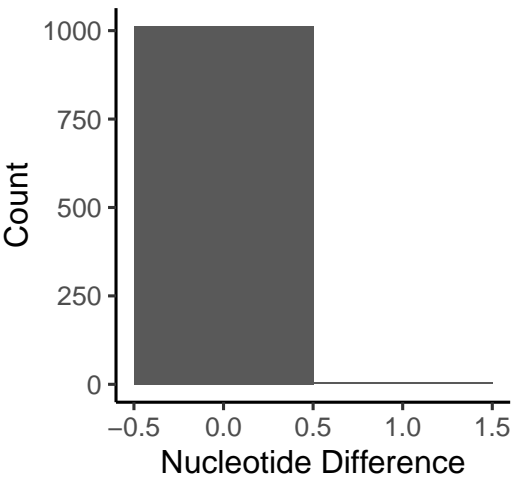
TRBV5-1\*ap01

3763 sequences assigned  
3700 (98.3%) exact matches, in which:  
3643 unique CDR3  
13 unique J



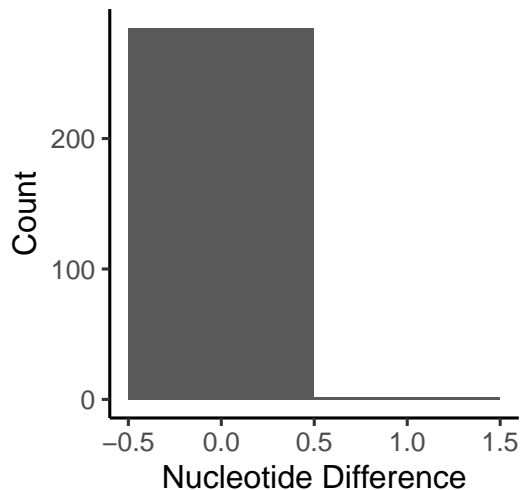
TRBV5-4\*ap01

1018 sequences assigned  
1013 (99.5%) exact matches, in which:  
1002 unique CDR3  
12 unique J



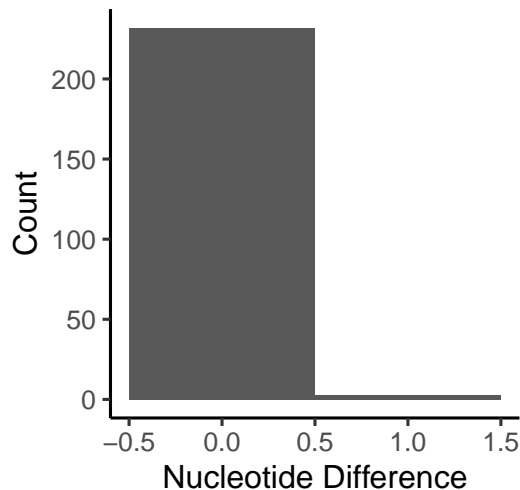
### TRBV5-5\*ap01

287 sequences assigned  
285 (99.3%) exact matches, in which:  
283 unique CDR3  
13 unique J



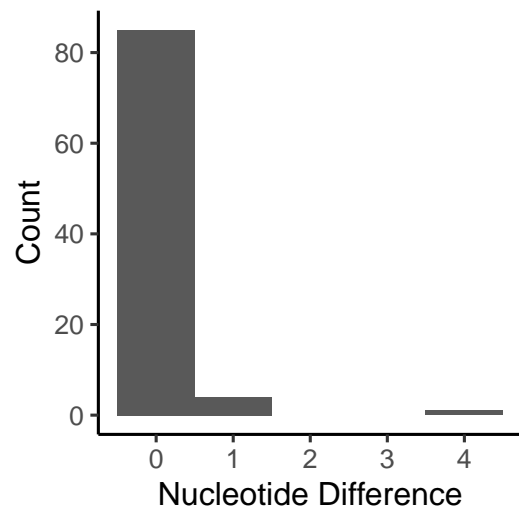
### TRBV5-8\*ap01

235 sequences assigned  
232 (98.7%) exact matches, in which:  
230 unique CDR3  
13 unique J



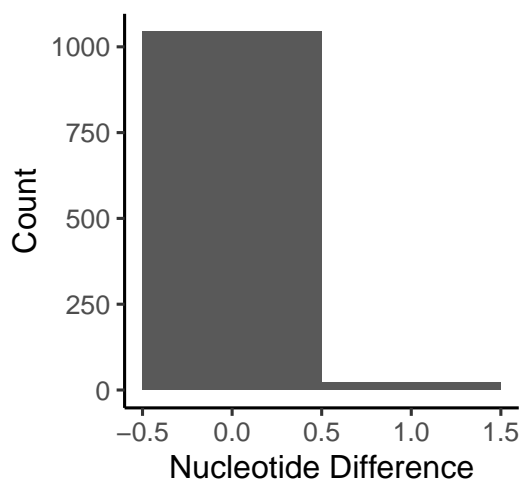
### TRBV6-7\*ap01

90 sequences assigned  
85 (94.4%) exact matches, in which:  
82 unique CDR3  
11 unique J



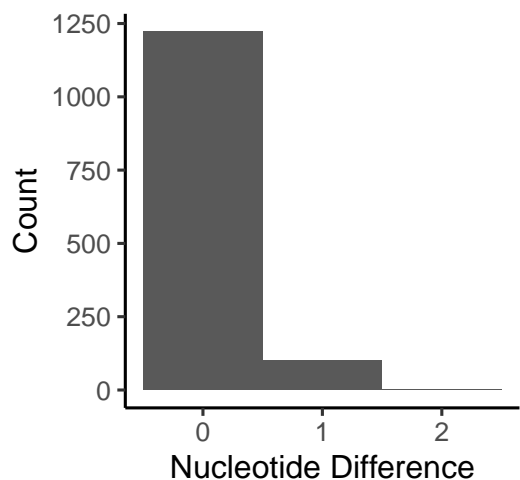
### TRBV5-6\*ap01

1065 sequences assigned  
1044 (98%) exact matches, in which:  
1020 unique CDR3  
13 unique J



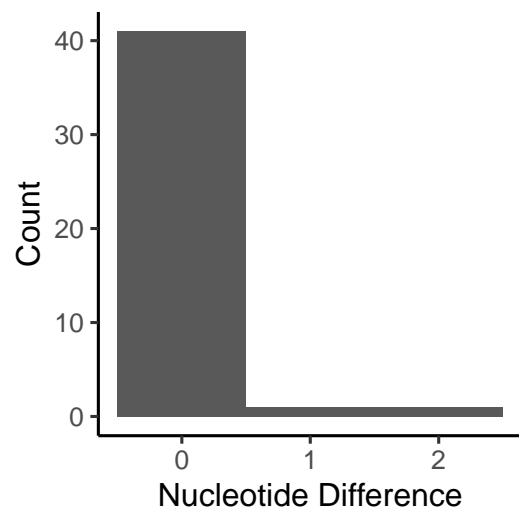
### TRBV6-1\*ap01

1325 sequences assigned  
1222 (92.2%) exact matches, in which:  
1203 unique CDR3  
13 unique J



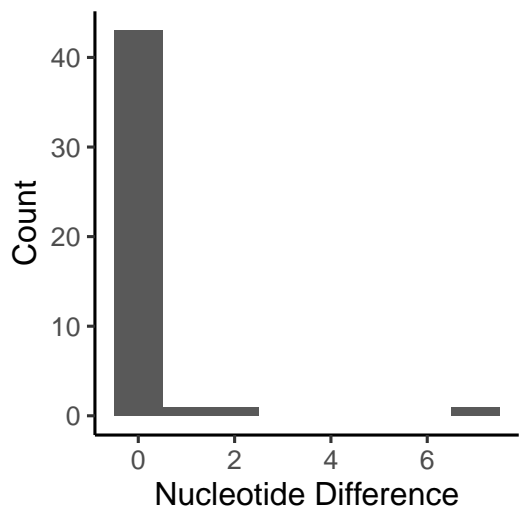
### TRBV6-8\*ap01

43 sequences assigned  
41 (95.3%) exact matches, in which:  
41 unique CDR3  
9 unique J



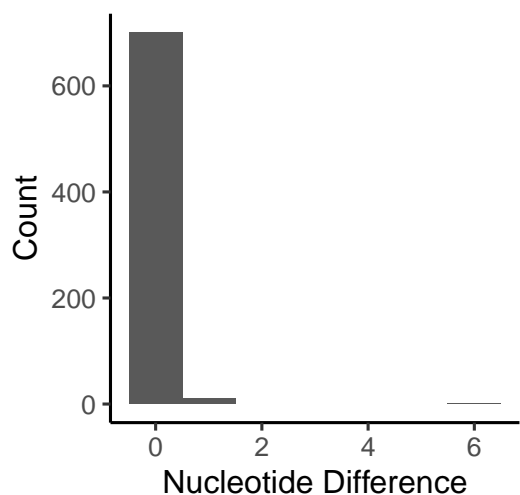
### TRBV5-7\*ap01

46 sequences assigned  
43 (93.5%) exact matches, in which:  
42 unique CDR3  
10 unique J



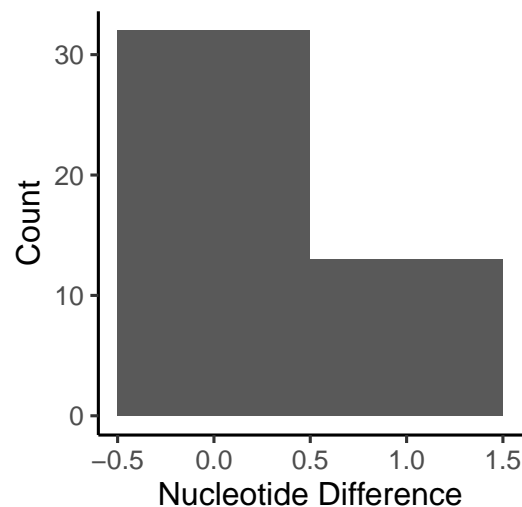
### TRBV6-4\*ap01

713 sequences assigned  
701 (98.3%) exact matches, in which:  
690 unique CDR3  
13 unique J



### TRBV6-9\*ap01

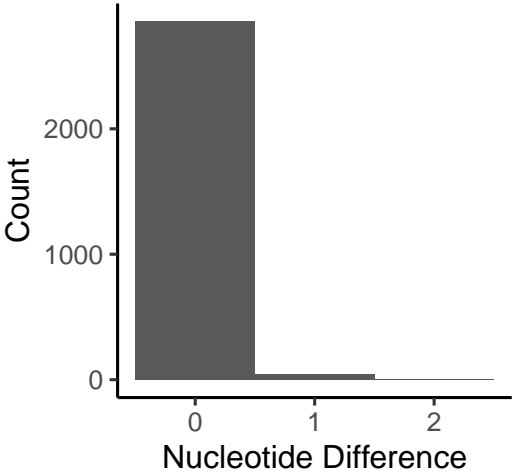
45 sequences assigned  
32 (71.1%) exact matches, in which:  
32 unique CDR3  
9 unique J





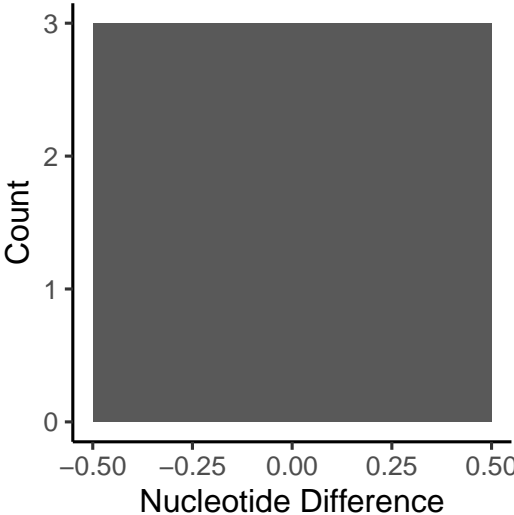
TRBV6-23\*ap01

2899 sequences assigned  
2856 (98.5%) exact matches, in which:  
2803 unique CDR3  
13 unique J



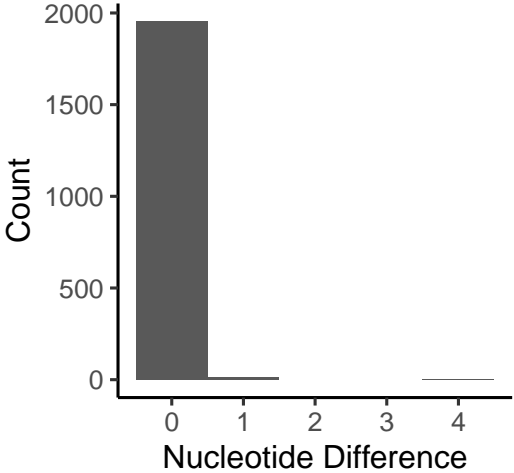
TRBV7-1\*ap01

3 sequences assigned  
3 (100%) exact matches, in which:  
3 unique CDR3  
3 unique J



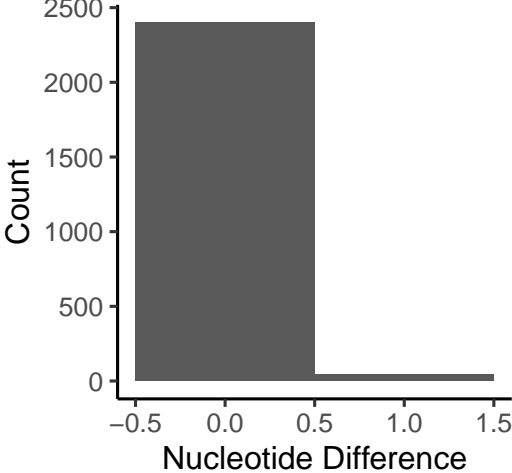
TRBV7-2\*ap01

1968 sequences assigned  
1954 (99.3%) exact matches, in which:  
1934 unique CDR3  
13 unique J



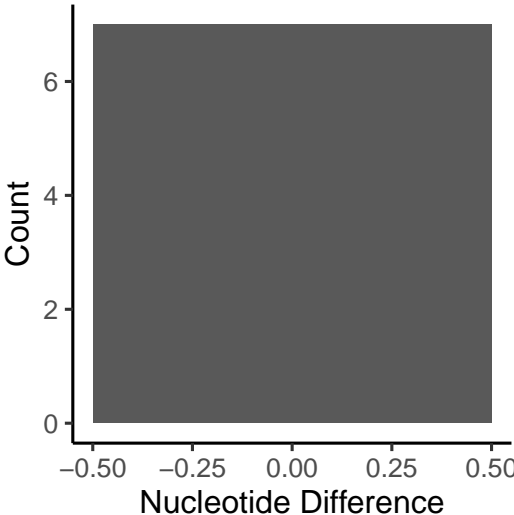
TRBV6-56\*ap01

2443 sequences assigned  
2399 (98.2%) exact matches, in which:  
2364 unique CDR3  
13 unique J



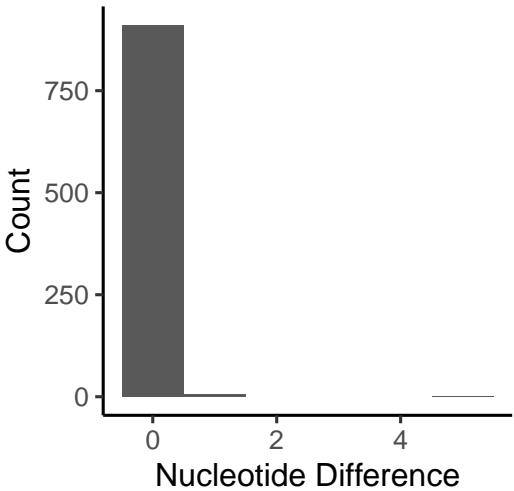
TRBV7-1\*ap01\_G291C\_T2

7 sequences assigned  
7 (100%) exact matches, in which:  
7 unique CDR3  
5 unique J



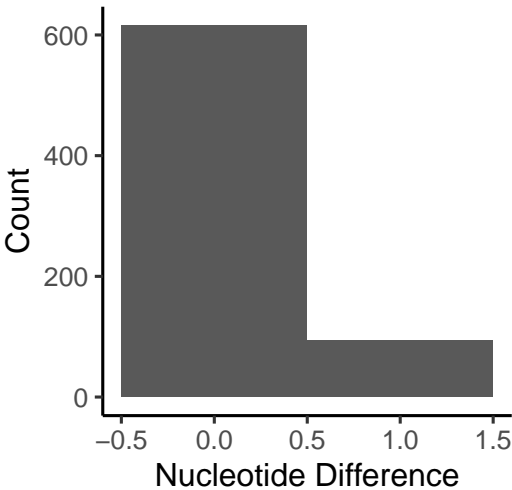
TRBV7-3\*ap01

920 sequences assigned  
911 (99%) exact matches, in which:  
898 unique CDR3  
13 unique J



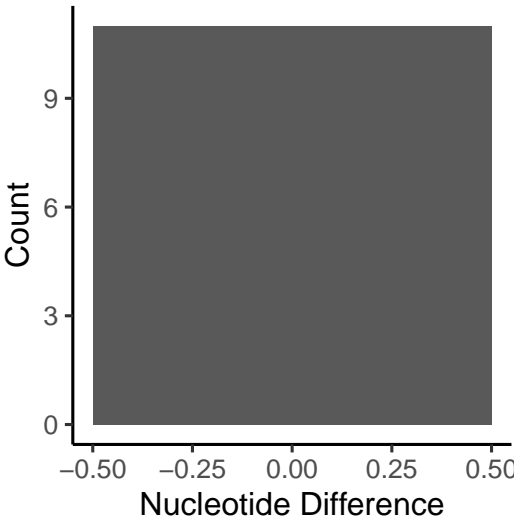
TRBV6-56\*ap02

709 sequences assigned  
616 (86.9%) exact matches, in which:  
608 unique CDR3  
13 unique J



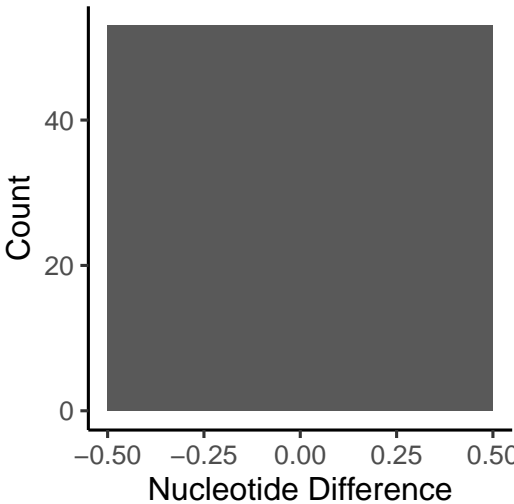
TRBV7-1\*ap01\_G291C\_T2

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



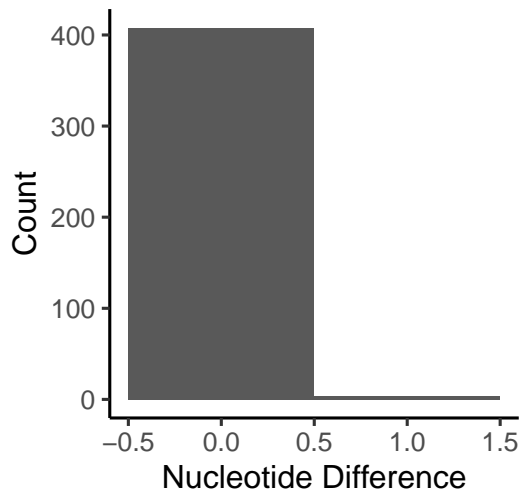
TRBV7-4\*ap01

53 sequences assigned  
53 (100%) exact matches, in which:  
53 unique CDR3  
10 unique J



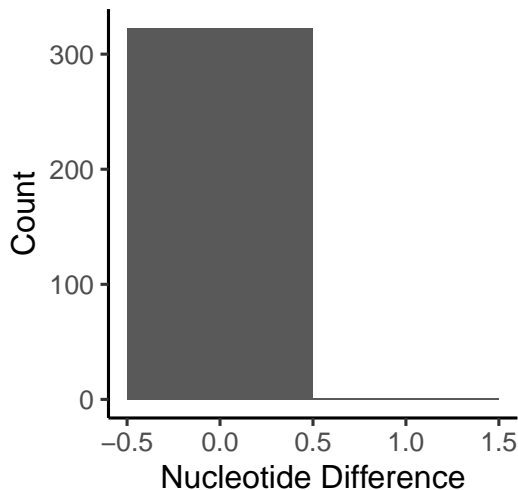
### TRBV7-6\*ap01

412 sequences assigned  
408 (99%) exact matches, in which:  
403 unique CDR3  
12 unique J



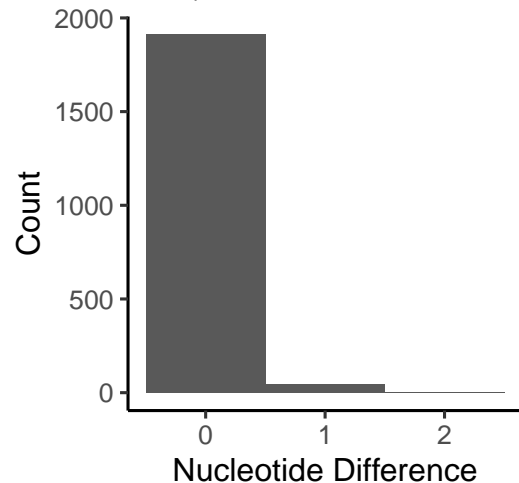
### TRBV7-8\*ap01

324 sequences assigned  
323 (99.7%) exact matches, in which:  
319 unique CDR3  
12 unique J



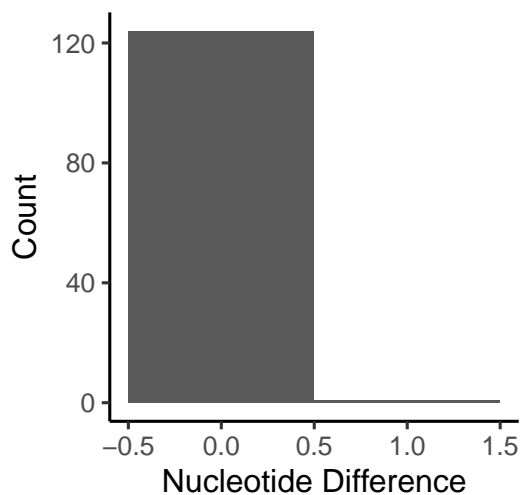
### TRBV29-1\*ap01

1958 sequences assigned  
1912 (97.7%) exact matches, in which:  
1864 unique CDR3  
13 unique J



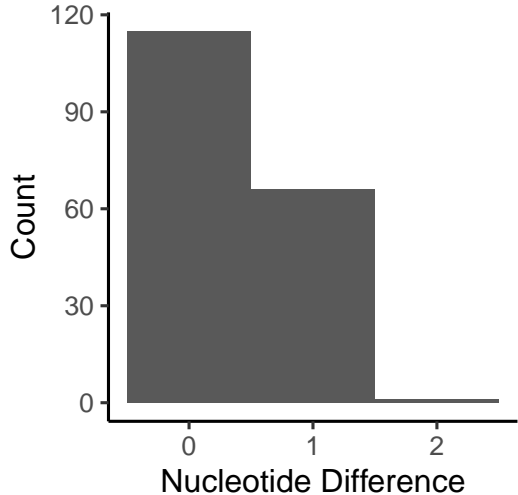
### TRBV7-7\*ap01

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



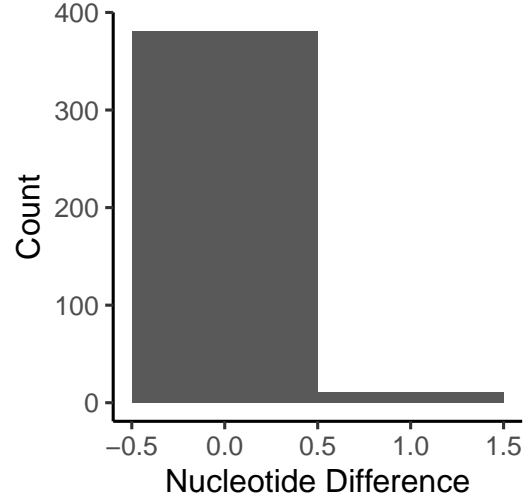
### TRBV7-8\*ap03

182 sequences assigned  
115 (63.2%) exact matches, in which:  
114 unique CDR3  
11 unique J



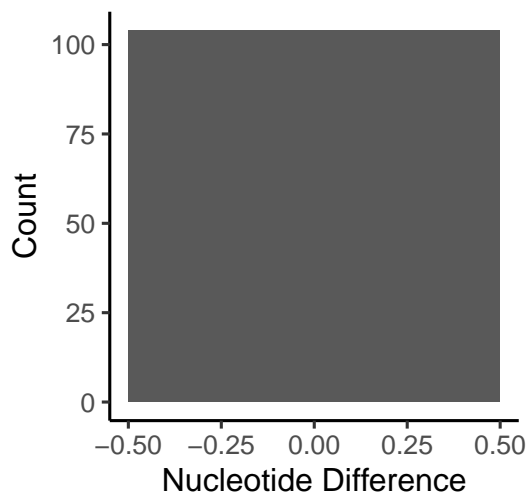
### TRBV29-1\*ap02

392 sequences assigned  
381 (97.2%) exact matches, in which:  
365 unique CDR3  
13 unique J



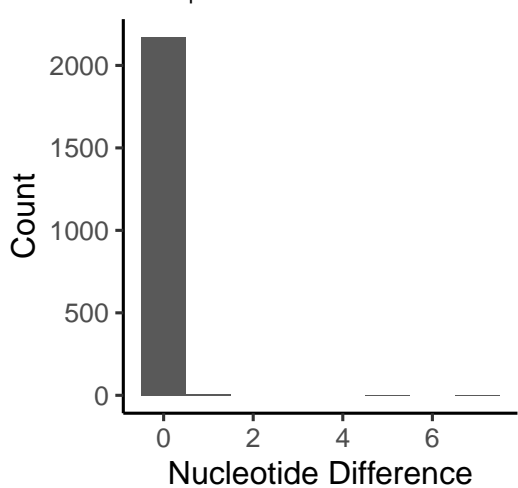
### TRBV7-7\*ap01\_C315T

104 sequences assigned  
104 (100%) exact matches, in which:  
104 unique CDR3  
11 unique J

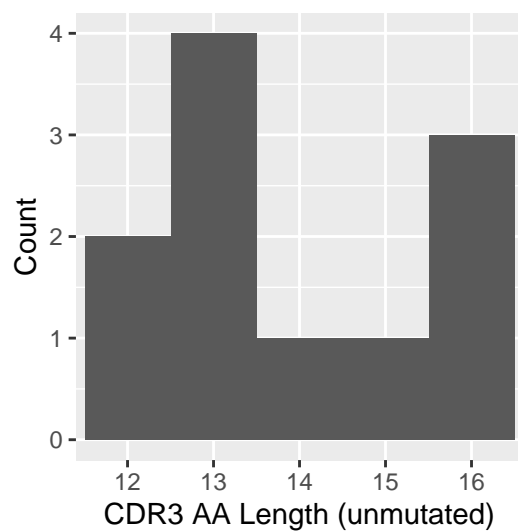


### TRBV7-9\*ap01

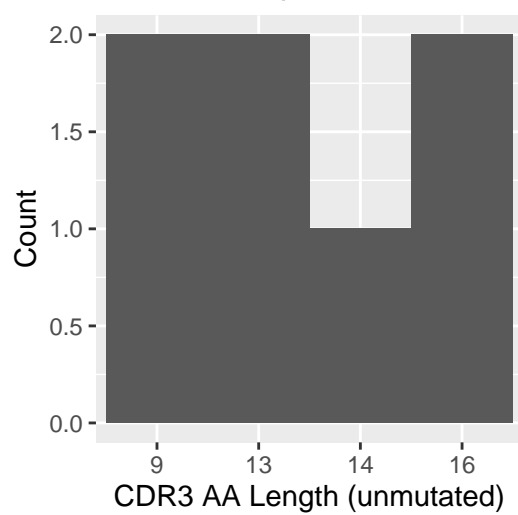
2181 sequences assigned  
2172 (99.6%) exact matches, in which:  
2148 unique CDR3  
13 unique J



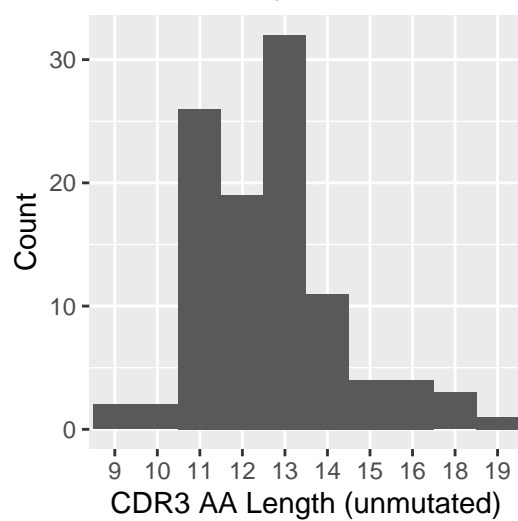
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]