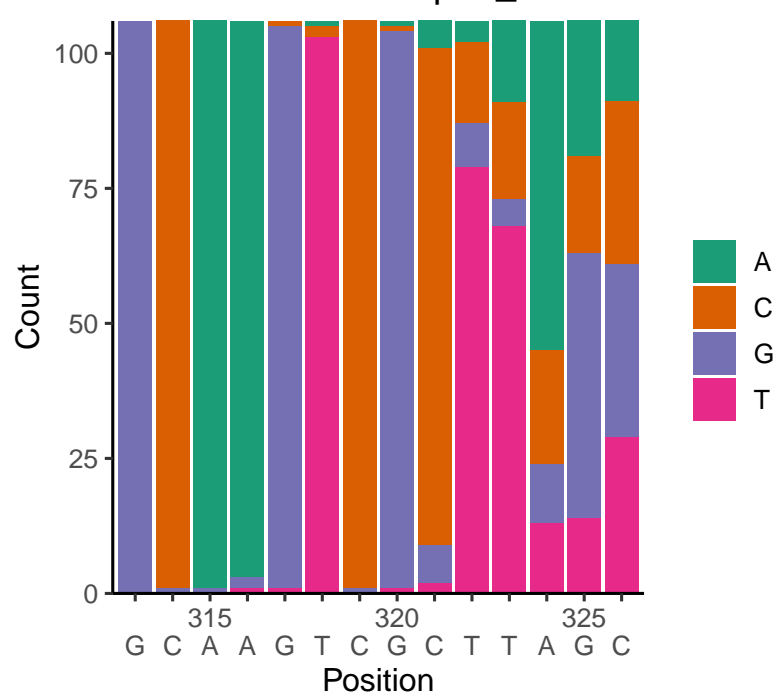
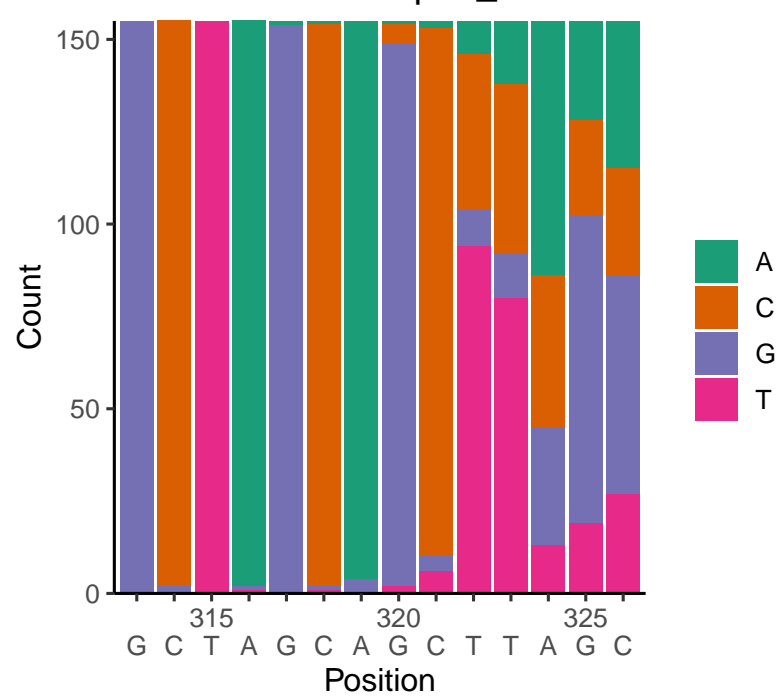


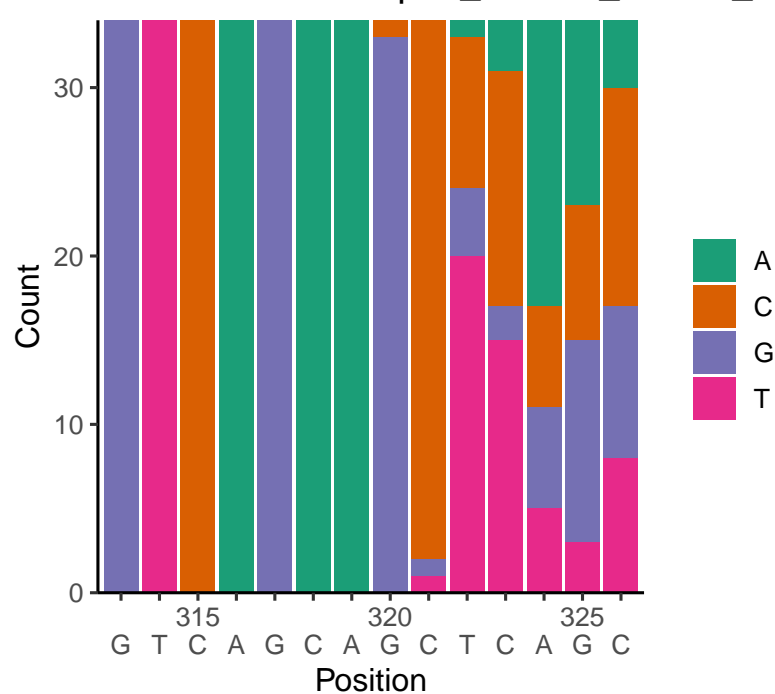
Gene TRBV12-2\*ap01\_G301A



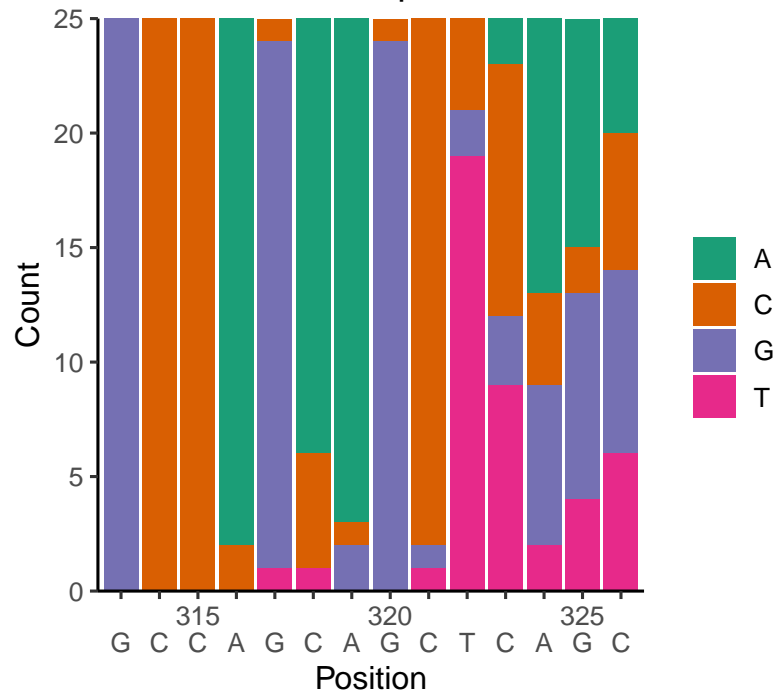
Gene TRBV7-7\*ap01\_C315T



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



Gene TRBV7-1\*ap01\_G291C\_T296C



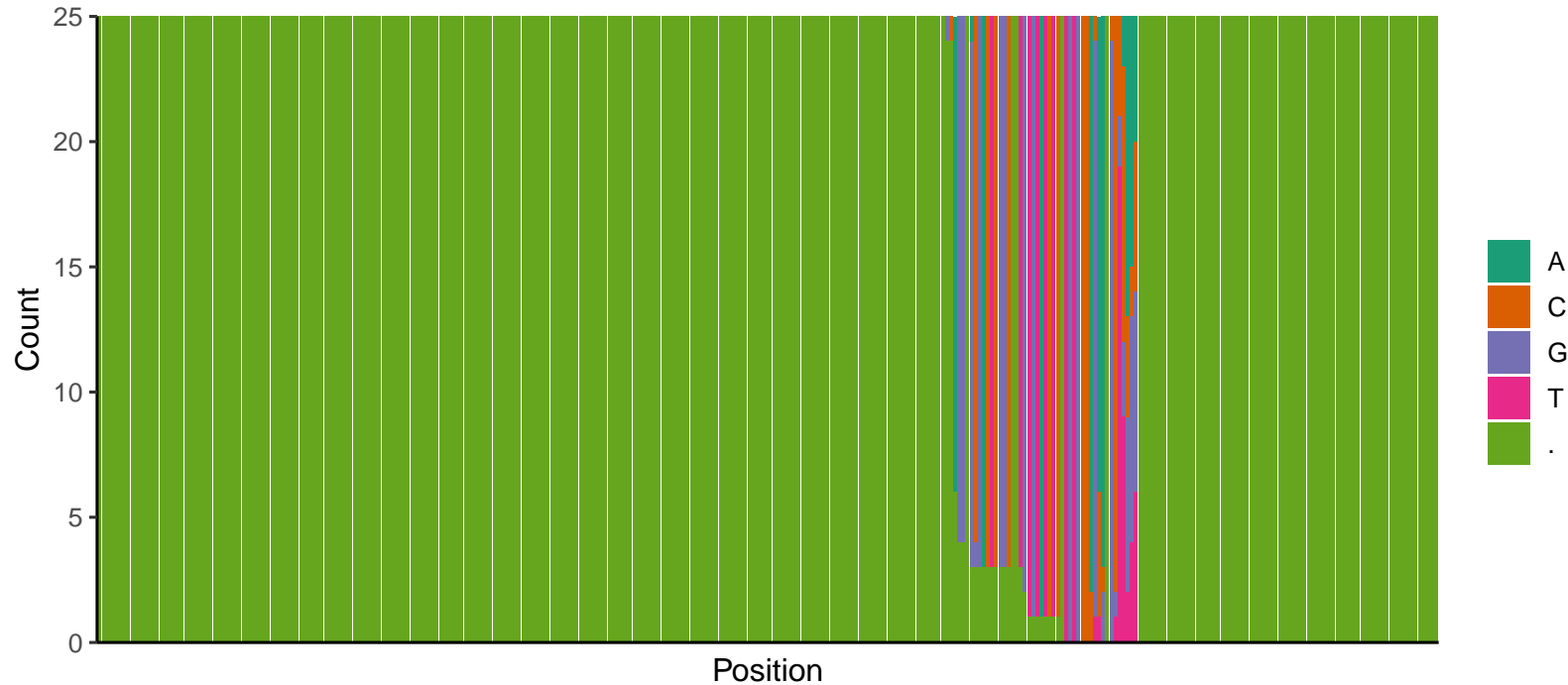
Gene TRBV12-2\*ap01\_G301A



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



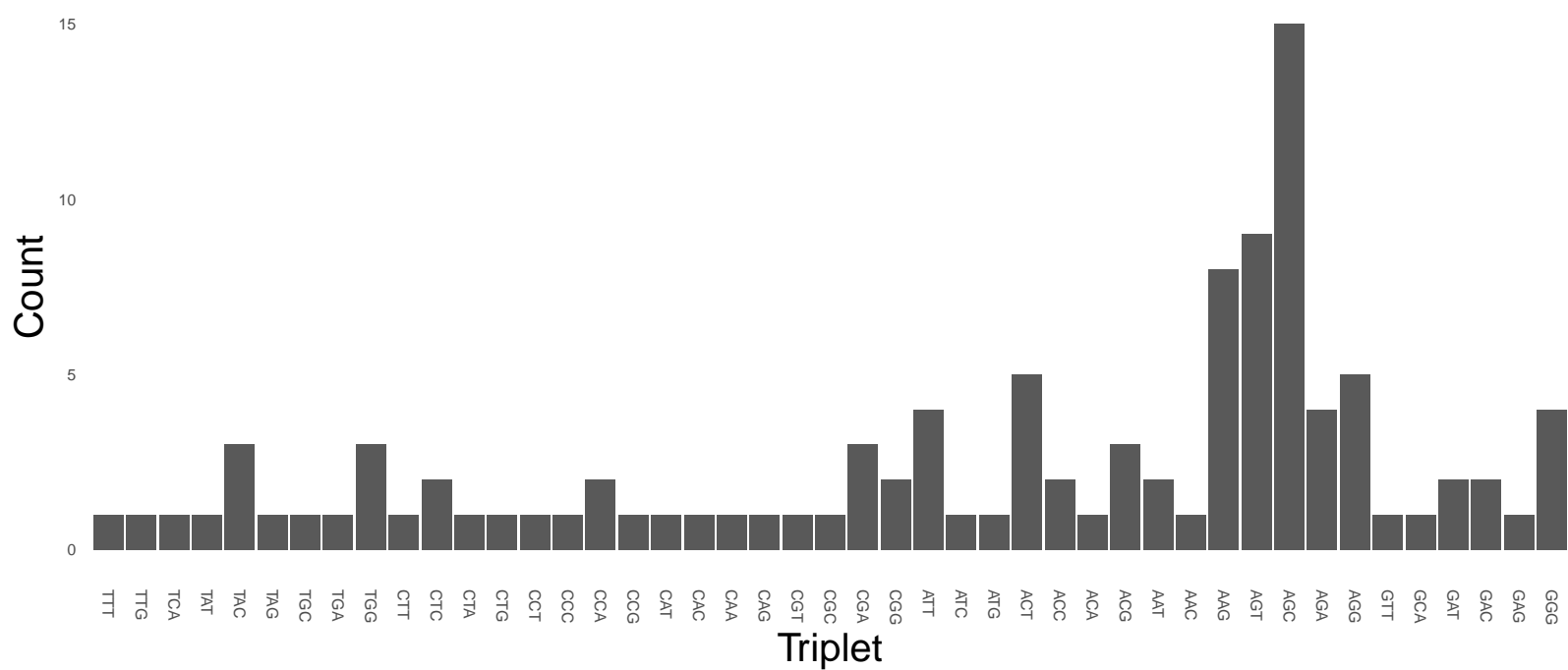
Gene TRBV7-1\*ap01\_G291C\_T296C



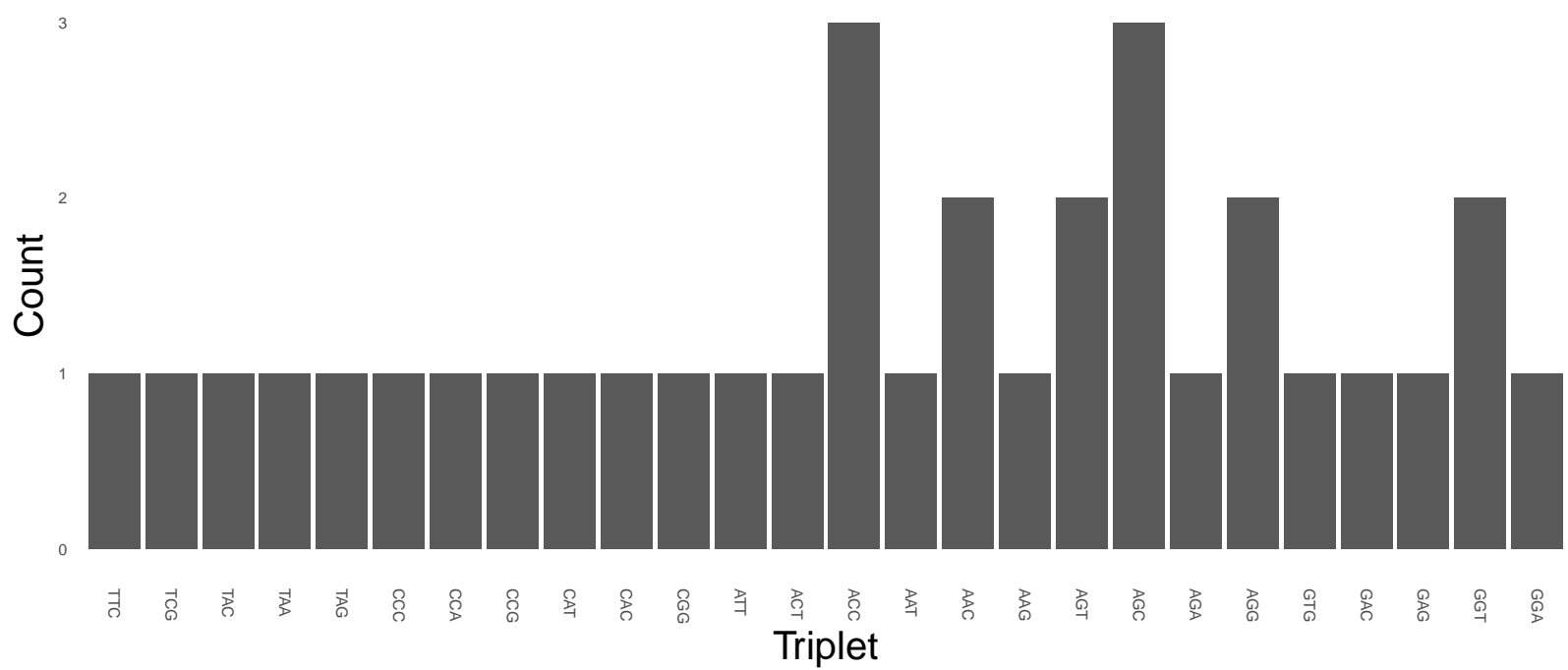
Gene TRBV7-7\*ap01\_C315T



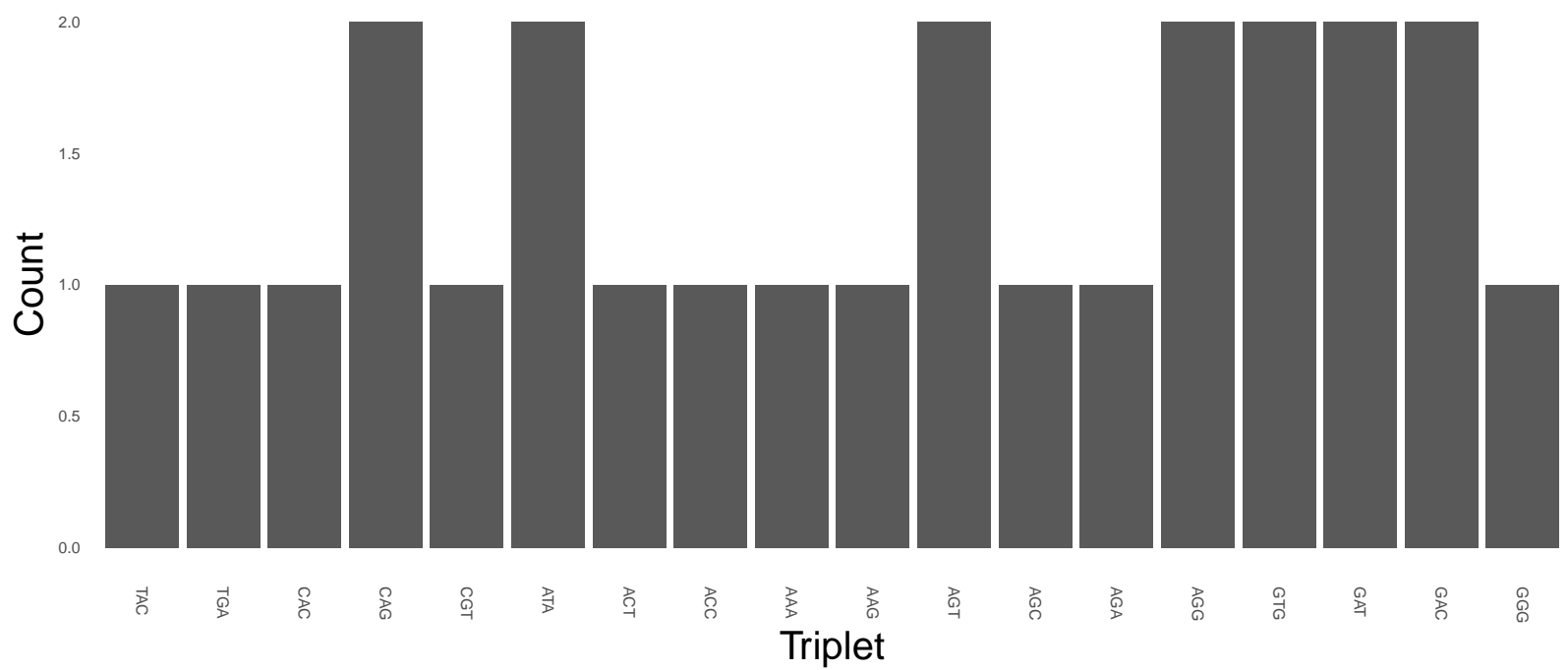
TRBV12-2\*ap01\_G301A- Final 3 nucleotides as a triplet



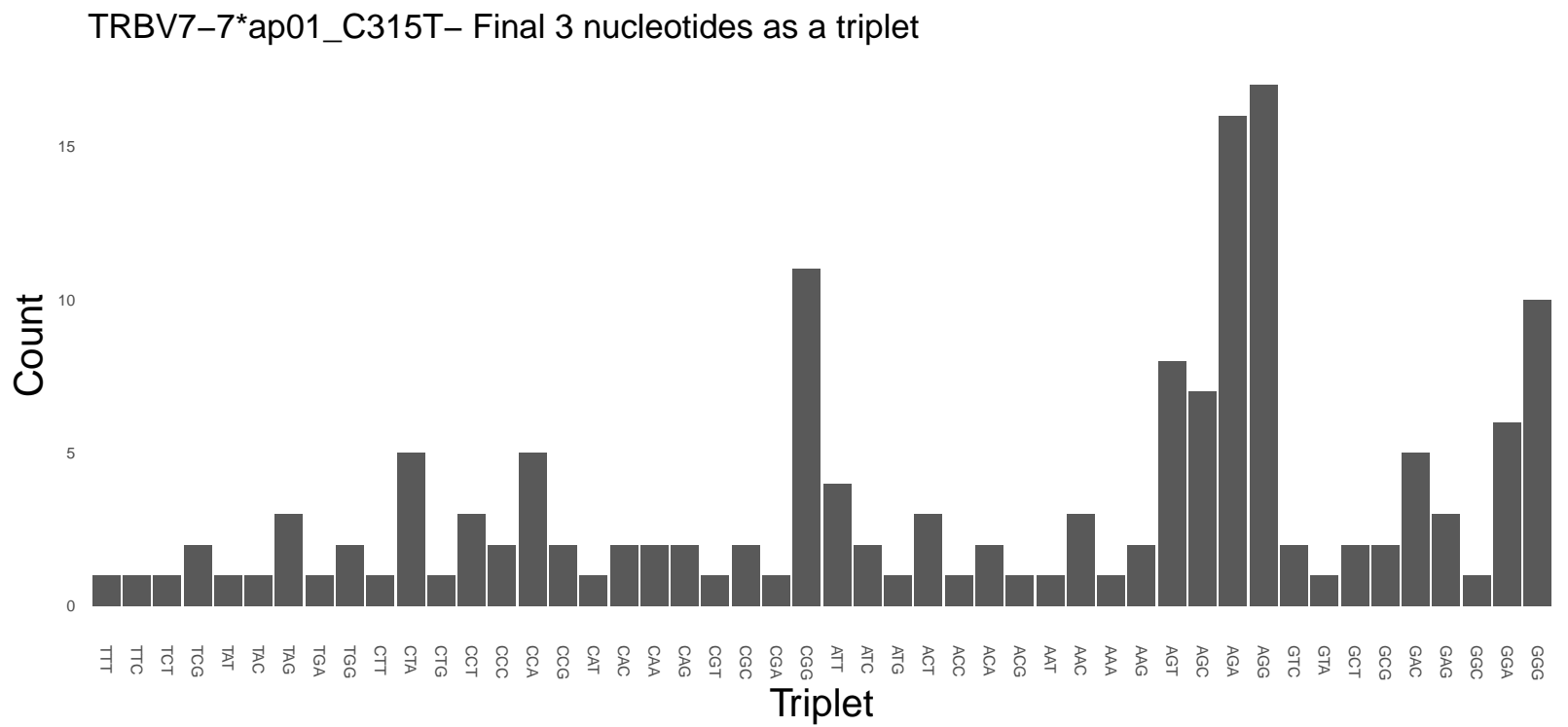
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

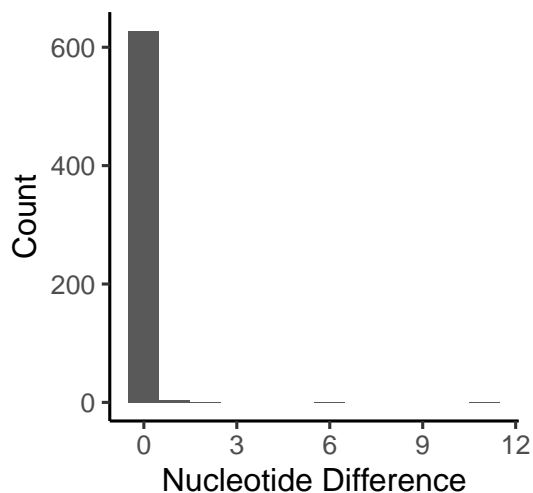


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



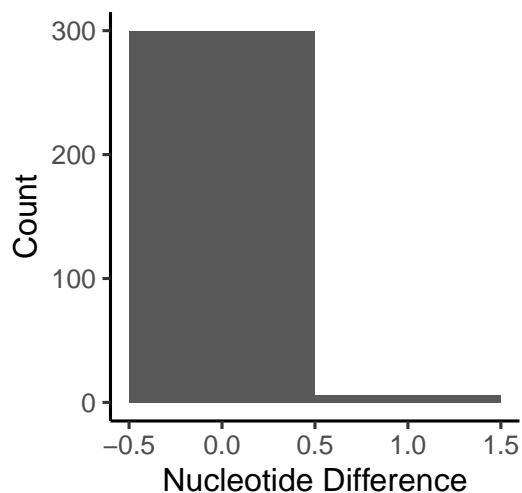
### TRBV10–1\*ap01

635 sequences assigned  
628 (98.9%) exact matches, in which:  
617 unique CDR3  
13 unique J



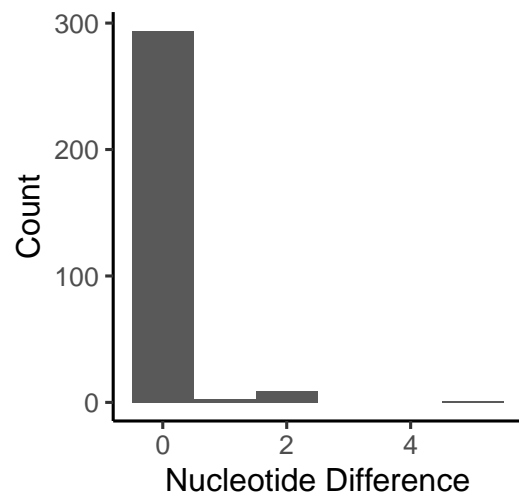
### TRBV10–2\*ap01

306 sequences assigned  
300 (98%) exact matches, in which:  
296 unique CDR3  
13 unique J



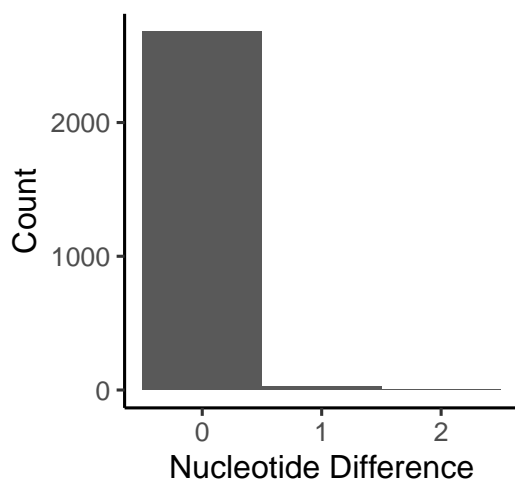
### TRBV13\*ap01

307 sequences assigned  
294 (95.8%) exact matches, in which:  
284 unique CDR3  
13 unique J



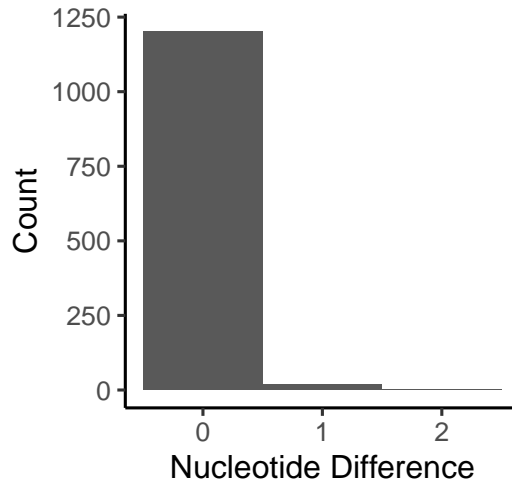
### TRBV20–1\*ap01

2712 sequences assigned  
2679 (98.8%) exact matches, in which:  
2633 unique CDR3  
13 unique J



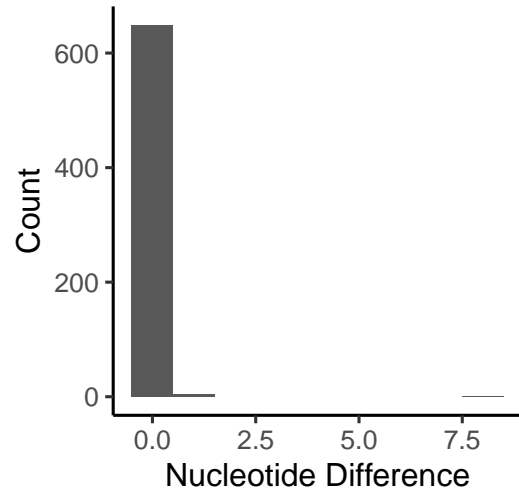
### TRBV10–3\*ap01

1219 sequences assigned  
1201 (98.5%) exact matches, in which:  
1180 unique CDR3  
13 unique J



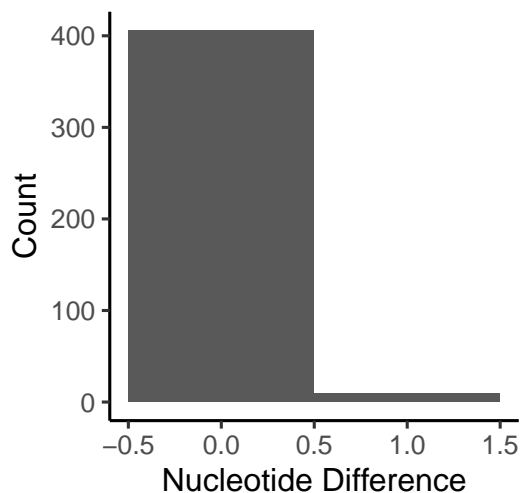
### TRBV14\*ap01

654 sequences assigned  
649 (99.2%) exact matches, in which:  
641 unique CDR3  
13 unique J



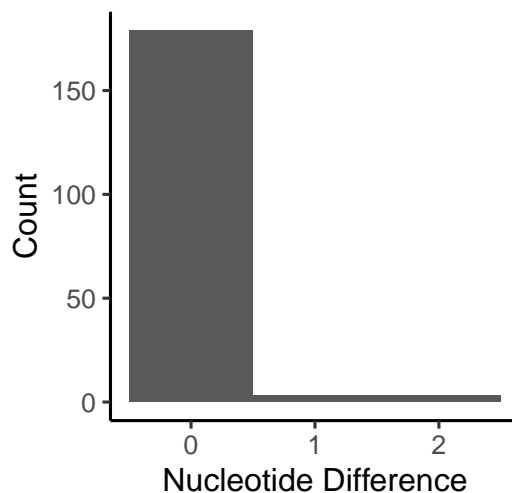
### TRBV20–1\*ap02

415 sequences assigned  
406 (97.8%) exact matches, in which:  
399 unique CDR3  
13 unique J



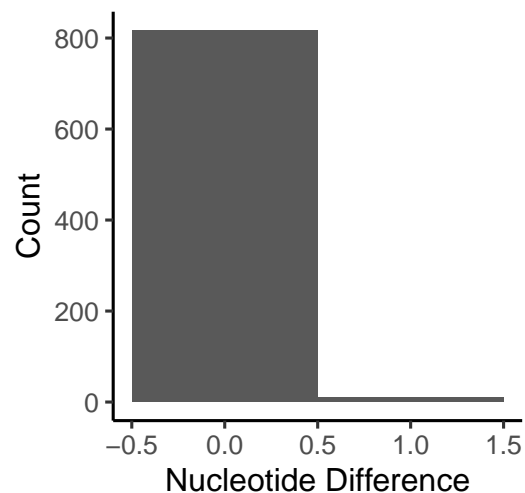
### TRBV1\*ap01

185 sequences assigned  
179 (96.8%) exact matches, in which:  
175 unique CDR3  
13 unique J



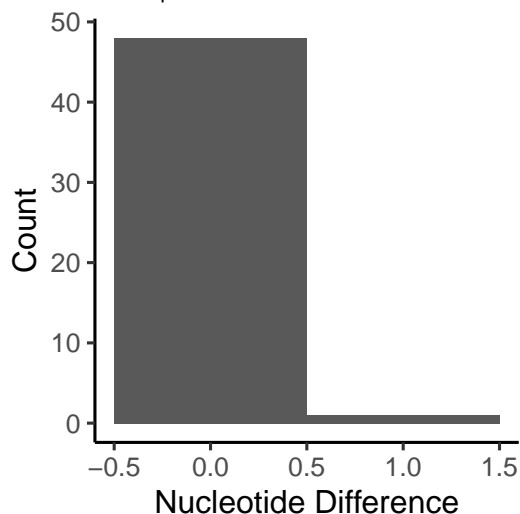
### TRBV15\*ap02

826 sequences assigned  
817 (98.9%) exact matches, in which:  
796 unique CDR3  
13 unique J



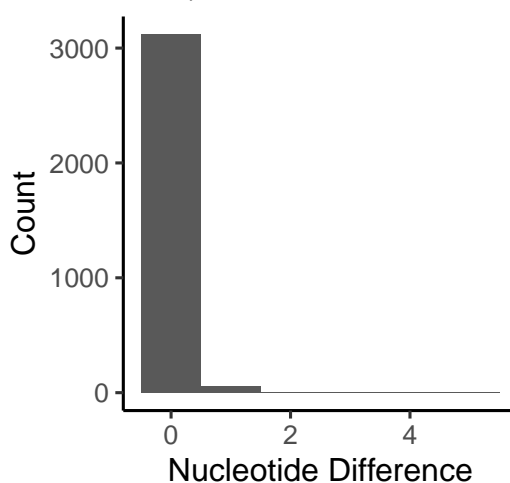
### TRBV16\*ap01

49 sequences assigned  
48 (98%) exact matches, in which:  
47 unique CDR3  
11 unique J



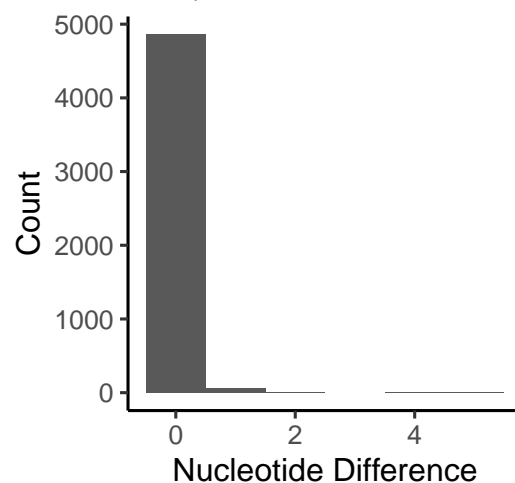
### TRBV19\*ap01

3179 sequences assigned  
3119 (98.1%) exact matches, in which:  
3067 unique CDR3  
13 unique J



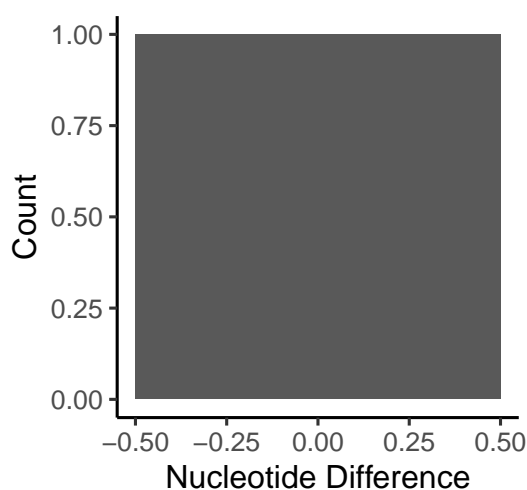
### TRBV28\*ap01

4933 sequences assigned  
4861 (98.5%) exact matches, in which:  
4746 unique CDR3  
13 unique J



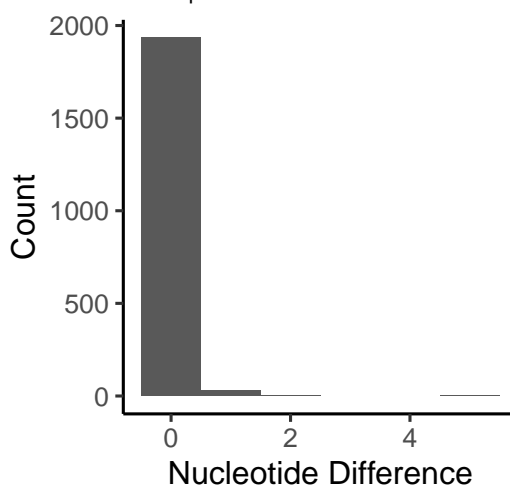
### TRBV17\*ap01

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



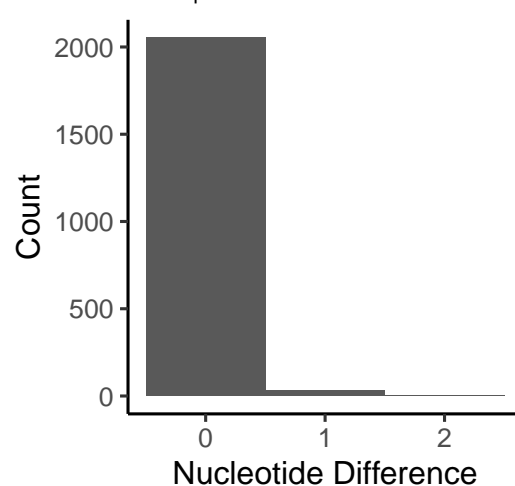
### TRBV2\*ap01

1967 sequences assigned  
1934 (98.3%) exact matches, in which:  
1914 unique CDR3  
13 unique J



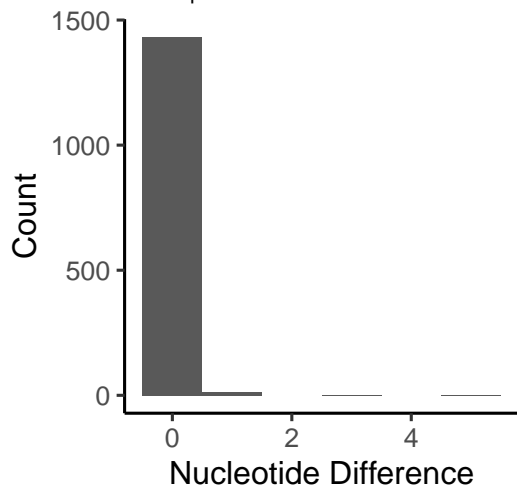
### TRBV30\*ap01

2088 sequences assigned  
2053 (98.3%) exact matches, in which:  
2031 unique CDR3  
13 unique J



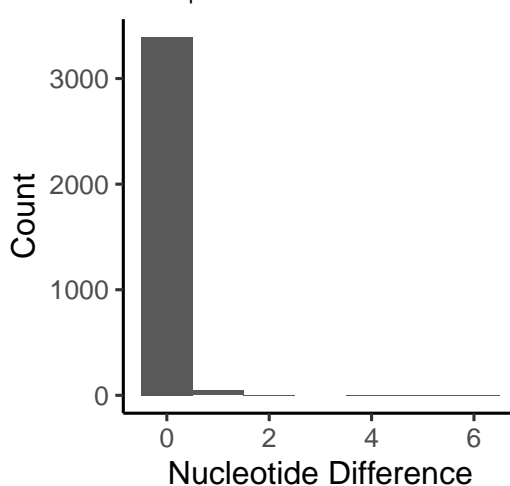
### TRBV18\*ap01

1448 sequences assigned  
1432 (98.9%) exact matches, in which:  
1395 unique CDR3  
13 unique J



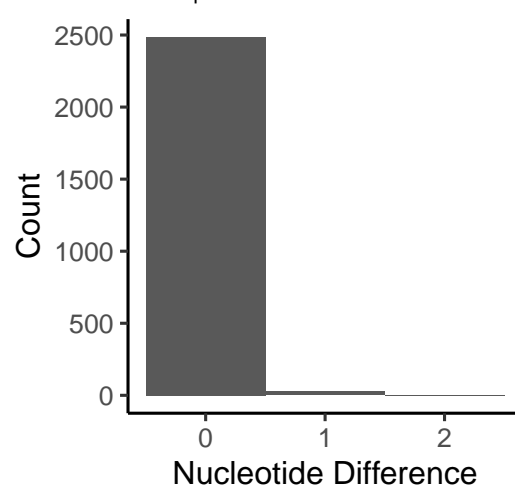
### TRBV27\*ap01

3444 sequences assigned  
3393 (98.5%) exact matches, in which:  
3328 unique CDR3  
13 unique J



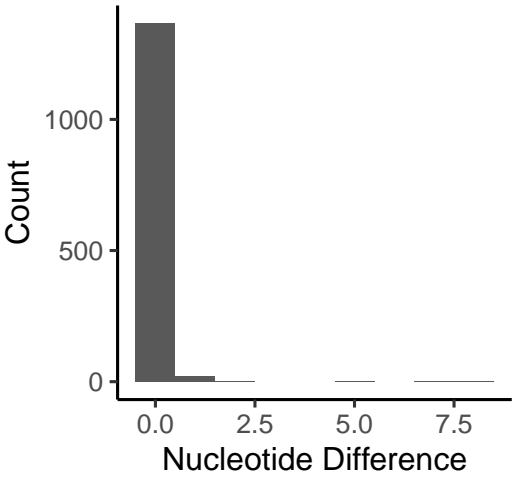
### TRBV9\*ap01

2515 sequences assigned  
2486 (98.8%) exact matches, in which:  
2434 unique CDR3  
13 unique J



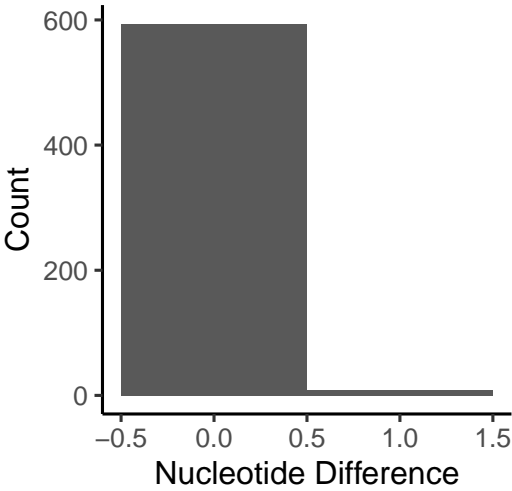
TRBV21-1\*ap01

1394 sequences assigned  
1366 (98%) exact matches, in which:  
1333 unique CDR3  
13 unique J



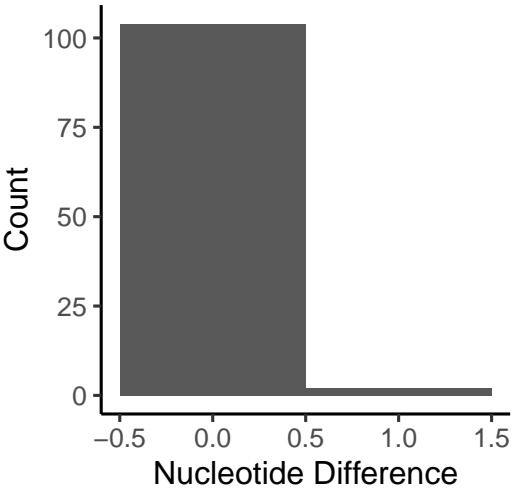
TRBV11-3\*ap01

603 sequences assigned  
594 (98.5%) exact matches, in which:  
578 unique CDR3  
13 unique J



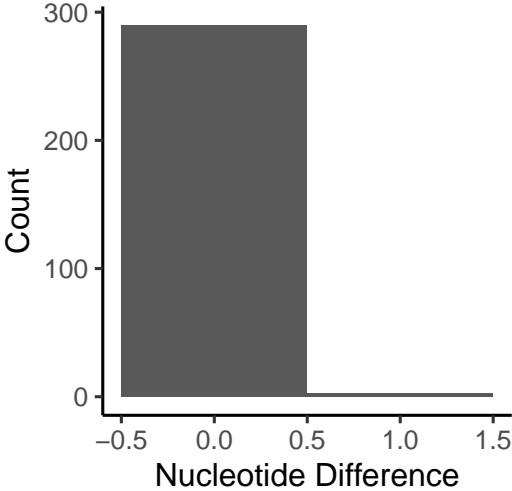
TRBV12-2\*ap01\_G301A

106 sequences assigned  
104 (98.1%) exact matches, in which:  
99 unique CDR3  
13 unique J



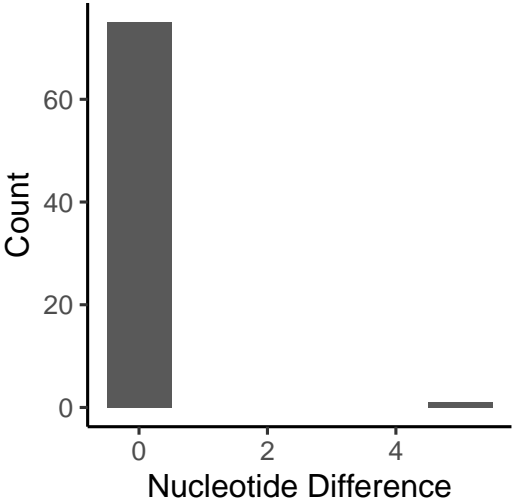
TRBV11-1\*ap01

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



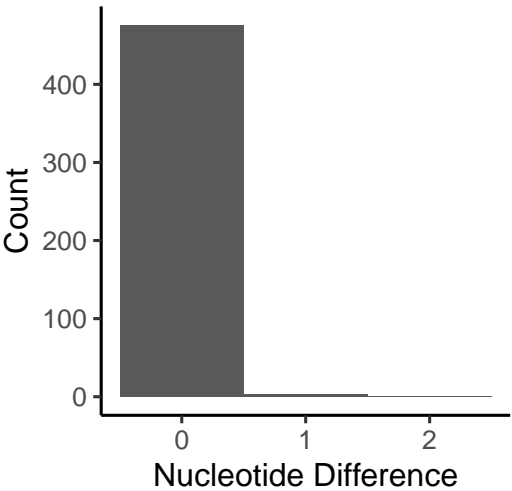
TRBV12-1\*ap01

76 sequences assigned  
75 (98.7%) exact matches, in which:  
73 unique CDR3  
12 unique J



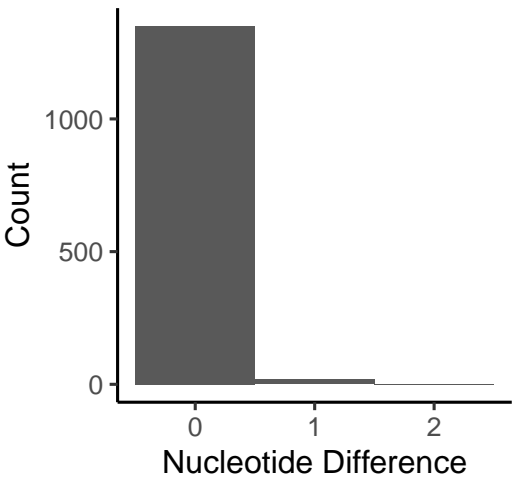
TRBV12-5\*ap01

480 sequences assigned  
476 (99.2%) exact matches, in which:  
467 unique CDR3  
13 unique J



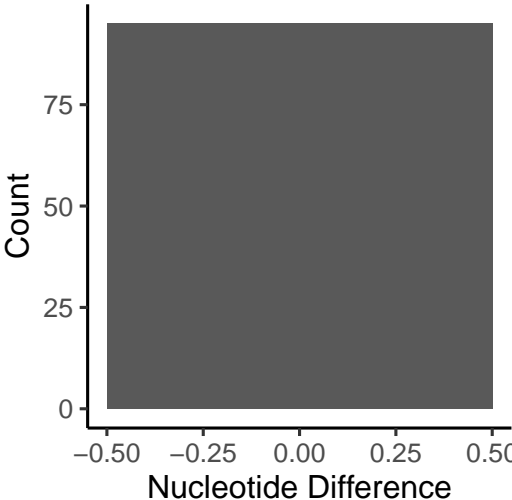
TRBV11-2\*ap01

1370 sequences assigned  
1350 (98.5%) exact matches, in which:  
1330 unique CDR3  
13 unique J



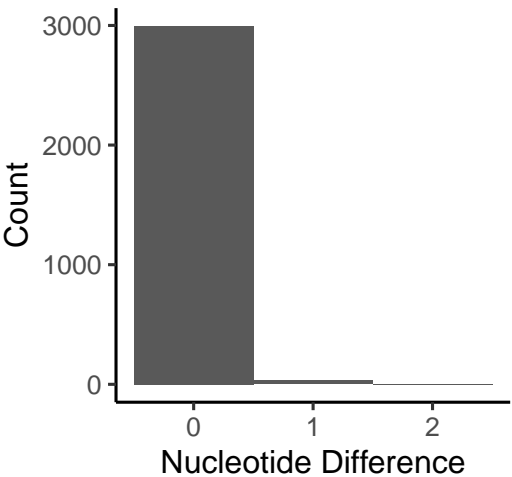
TRBV12-2\*ap01

95 sequences assigned  
95 (100%) exact matches, in which:  
94 unique CDR3  
12 unique J



TRBV12-34\*ap01

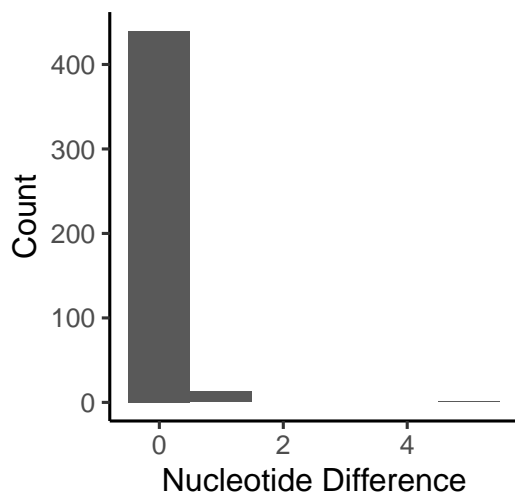
3028 sequences assigned  
2995 (98.9%) exact matches, in which:  
2953 unique CDR3  
13 unique J





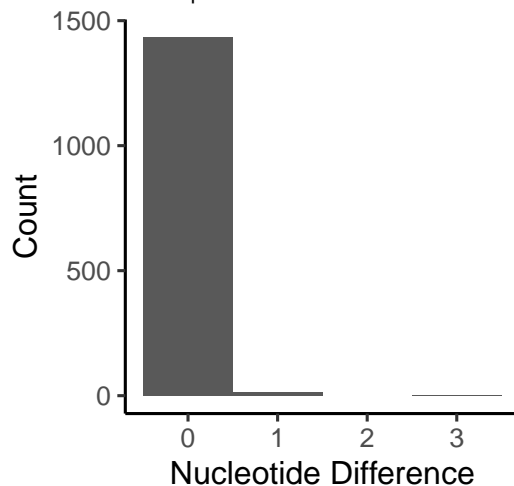
### TRBV23-1\*ap01

454 sequences assigned  
440 (96.9%) exact matches, in which:  
432 unique CDR3  
13 unique J



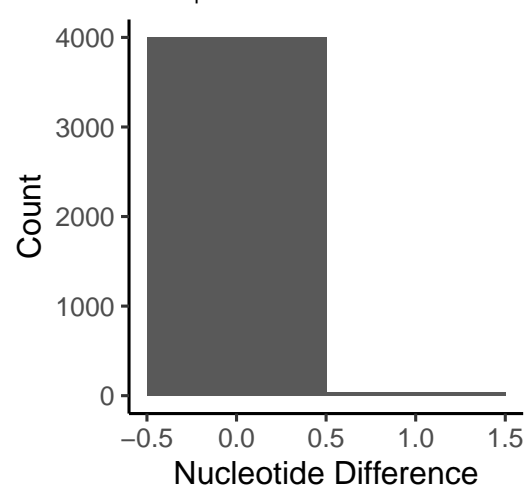
### TRBV4-1\*ap01

1447 sequences assigned  
1433 (99%) exact matches, in which:  
1416 unique CDR3  
13 unique J



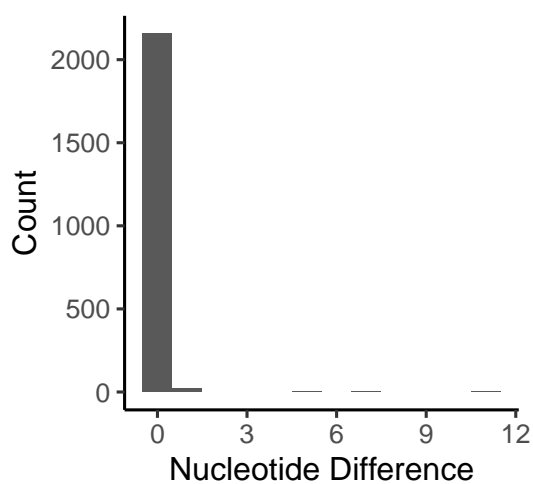
### TRBV5-1\*ap01

4034 sequences assigned  
4000 (99.2%) exact matches, in which:  
3907 unique CDR3  
13 unique J



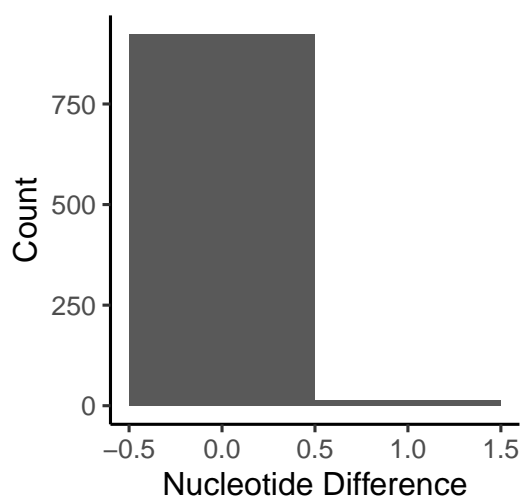
### TRBV3-12\*ap01

2182 sequences assigned  
2156 (98.8%) exact matches, in which:  
2124 unique CDR3  
13 unique J



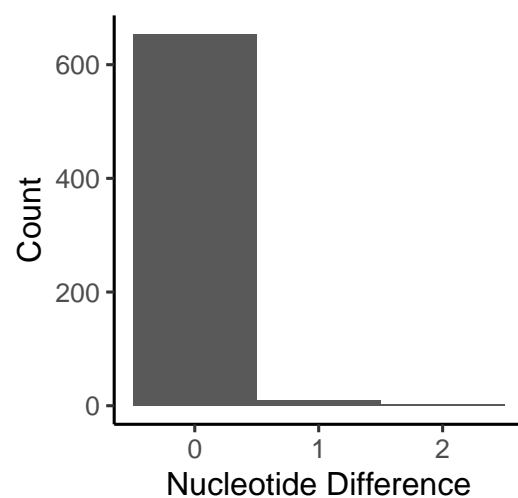
### TRBV4-2\*ap01

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



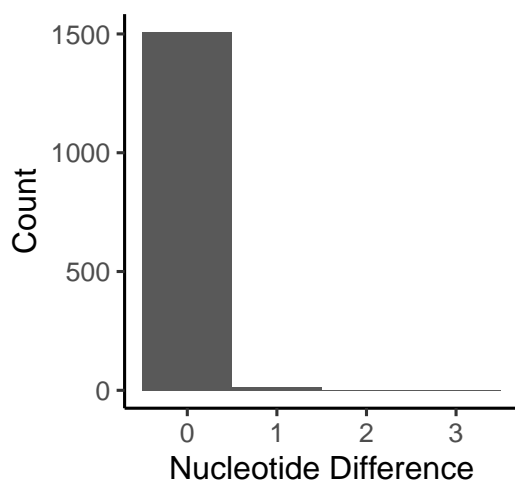
### TRBV25-1\*ap01

666 sequences assigned  
654 (98.2%) exact matches, in which:  
645 unique CDR3  
13 unique J



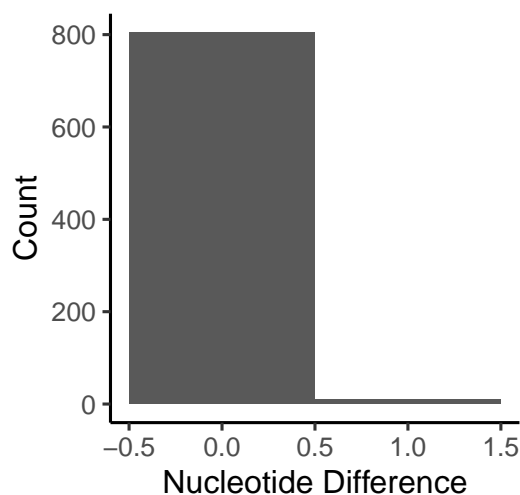
### TRBV24-1\*ap01

1525 sequences assigned  
1508 (98.9%) exact matches, in which:  
1488 unique CDR3  
13 unique J



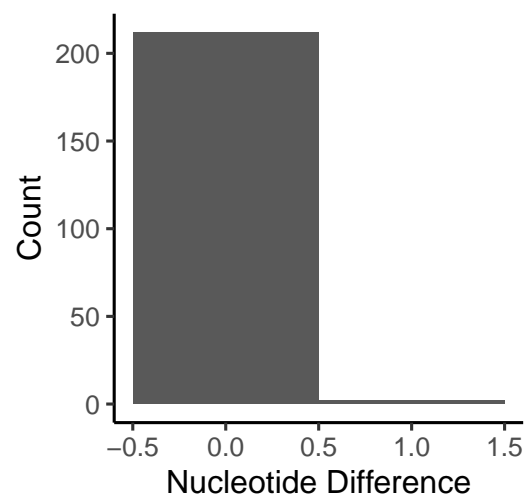
### TRBV4-3\*ap01

815 sequences assigned  
805 (98.8%) exact matches, in which:  
800 unique CDR3  
13 unique J



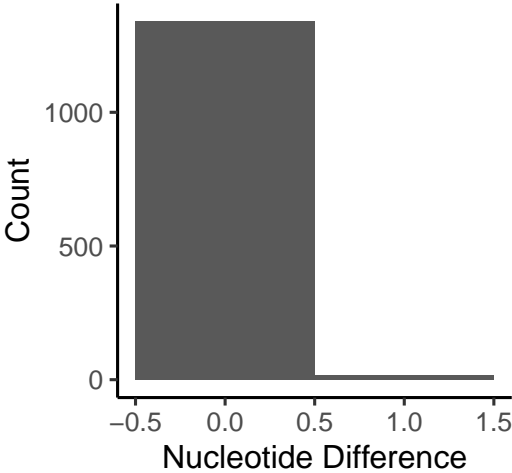
### TRBV5-3\*ap01

214 sequences assigned  
212 (99.1%) exact matches, in which:  
210 unique CDR3  
13 unique J



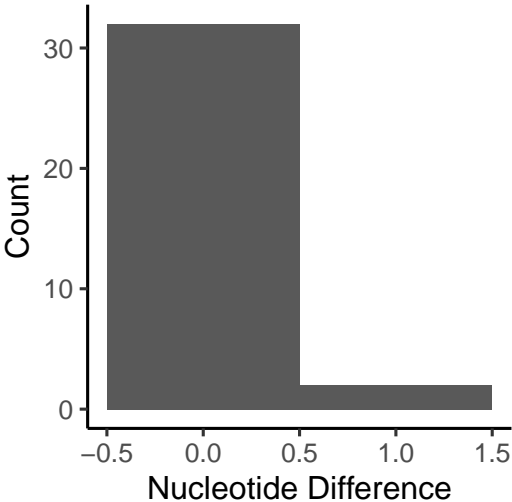
TRBV5-4\*ap01

1357 sequences assigned  
1340 (98.7%) exact matches, in which:  
1323 unique CDR3  
13 unique J



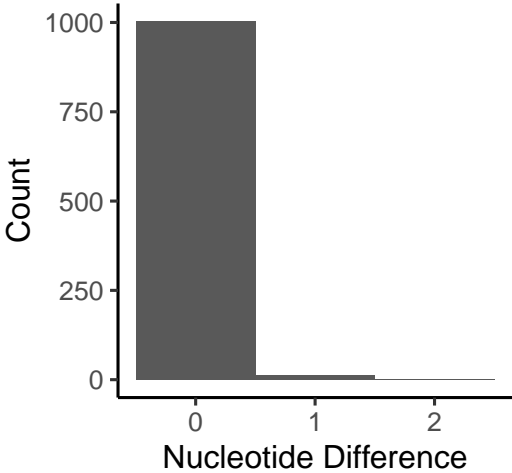
TRBV5-7\*ap01

34 sequences assigned  
32 (94.1%) exact matches, in which:  
31 unique CDR3  
8 unique J



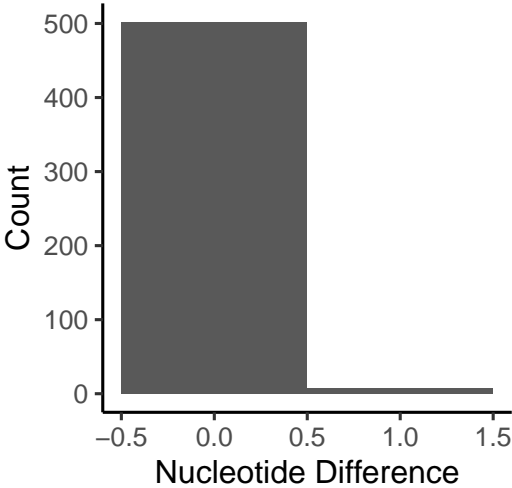
TRBV6-4\*ap01

1016 sequences assigned  
1003 (98.7%) exact matches, in which:  
990 unique CDR3  
13 unique J



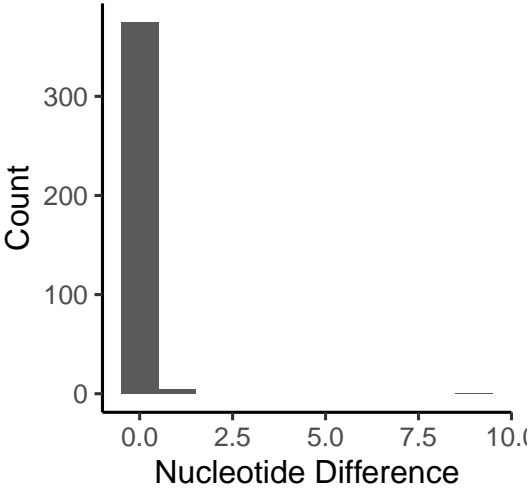
TRBV5-5\*ap01

509 sequences assigned  
502 (98.6%) exact matches, in which:  
496 unique CDR3  
13 unique J



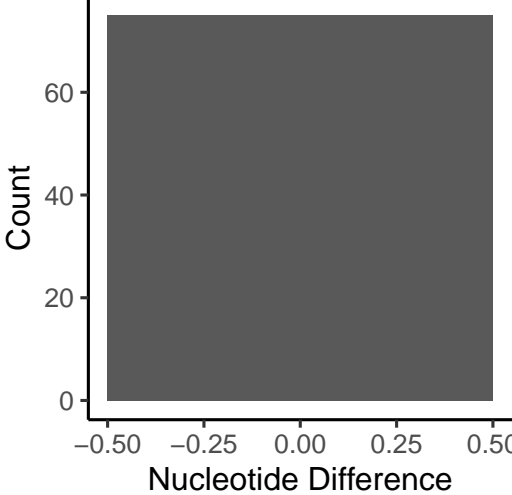
TRBV5-8\*ap01

381 sequences assigned  
375 (98.4%) exact matches, in which:  
369 unique CDR3  
13 unique J



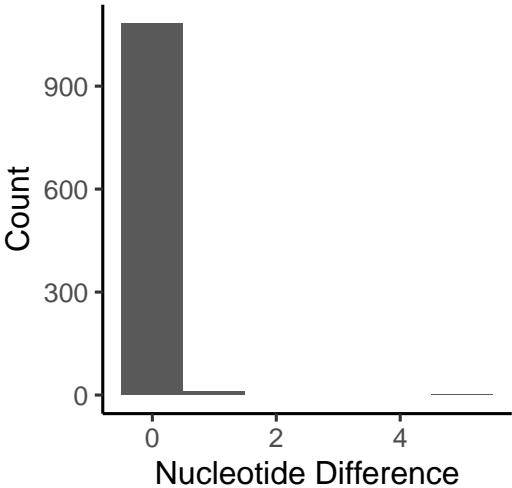
TRBV6-7\*ap01

75 sequences assigned  
75 (100%) exact matches, in which:  
74 unique CDR3  
12 unique J



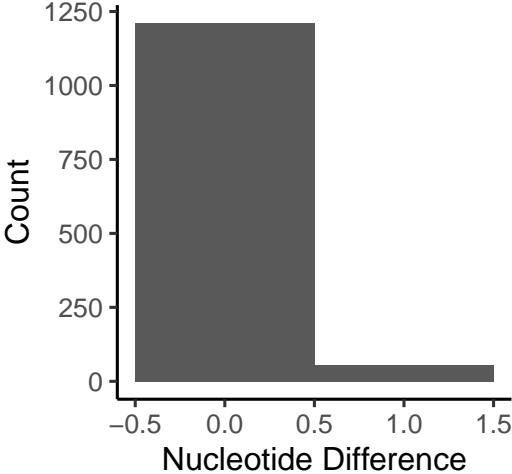
TRBV5-6\*ap01

1095 sequences assigned  
1083 (98.9%) exact matches, in which:  
1065 unique CDR3  
13 unique J



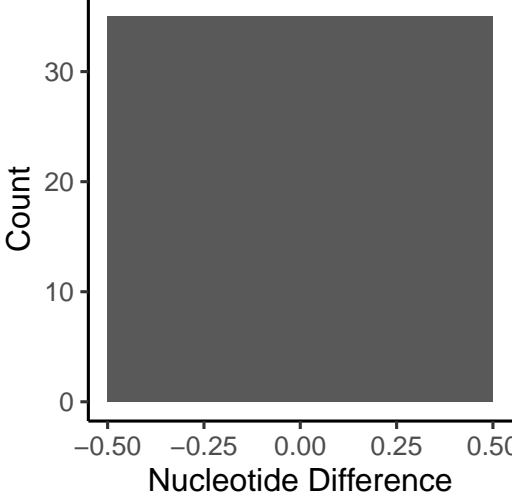
TRBV6-1\*ap01

1266 sequences assigned  
1211 (95.7%) exact matches, in which:  
1198 unique CDR3  
13 unique J



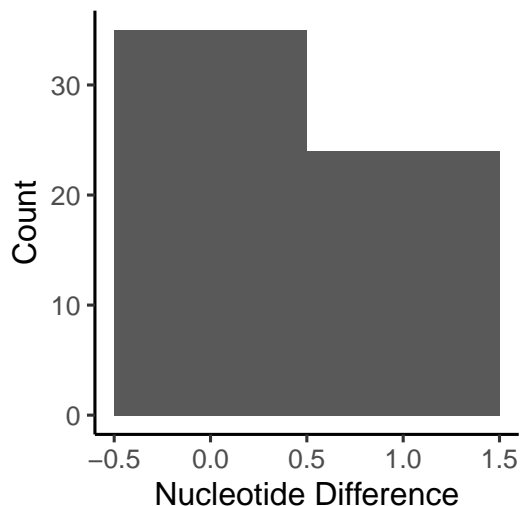
TRBV6-8\*ap01

35 sequences assigned  
35 (100%) exact matches, in which:  
34 unique CDR3  
11 unique J



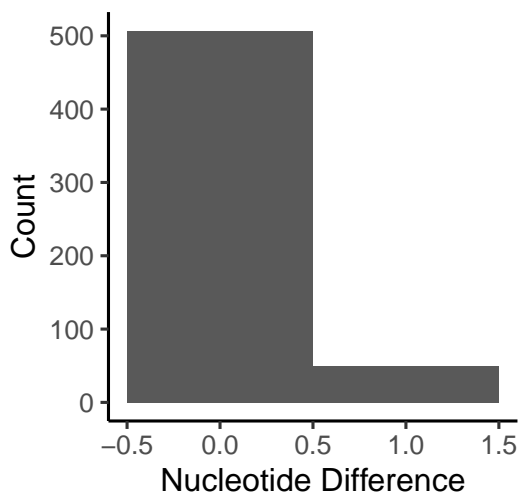
### TRBV6-9\*ap01

59 sequences assigned  
35 (59.3%) exact matches, in which:  
34 unique CDR3  
9 unique J



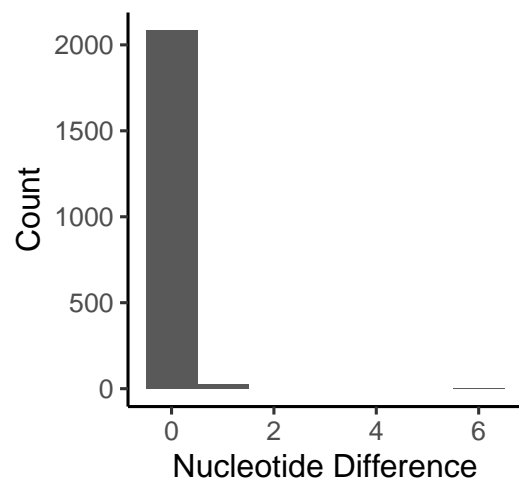
### TRBV6-56\*ap02

557 sequences assigned  
507 (91%) exact matches, in which:  
498 unique CDR3  
13 unique J



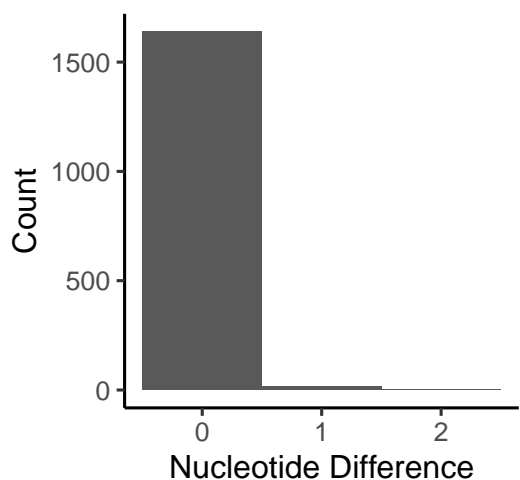
### TRBV7-2\*ap01

2109 sequences assigned  
2084 (98.8%) exact matches, in which:  
2039 unique CDR3  
13 unique J



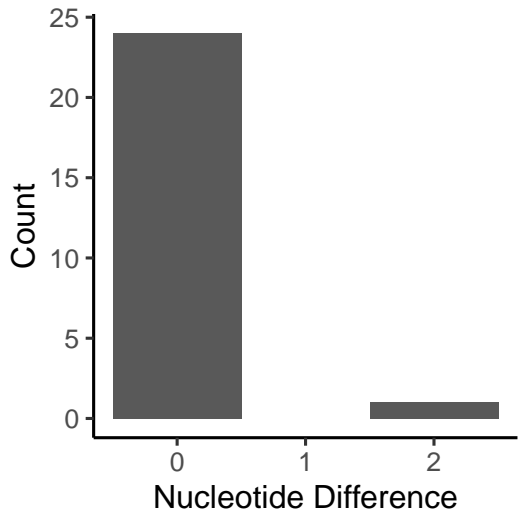
### TRBV6-23\*ap01

1658 sequences assigned  
1639 (98.9%) exact matches, in which:  
1618 unique CDR3  
13 unique J



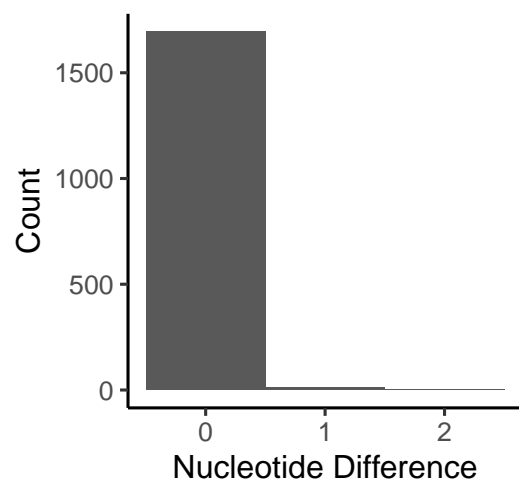
### TRBV7-1\*ap01\_G291C\_T

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



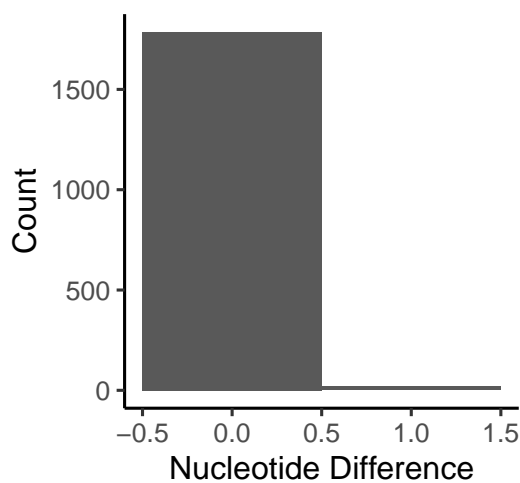
### TRBV7-3\*ap01

1707 sequences assigned  
1694 (99.2%) exact matches, in which:  
1657 unique CDR3  
13 unique J



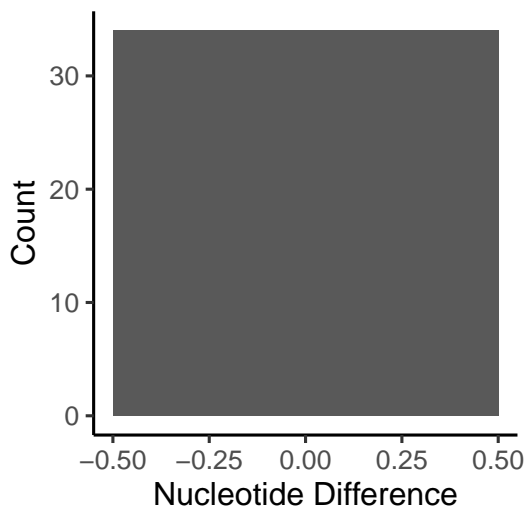
### TRBV6-56\*ap01

1805 sequences assigned  
1786 (98.9%) exact matches, in which:  
1760 unique CDR3  
13 unique J



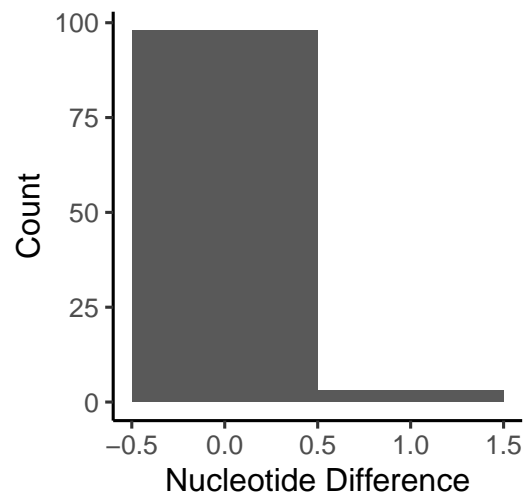
### TRBV7-1\*ap01\_G291C\_T

34 sequences assigned  
34 (100%) exact matches, in which:  
33 unique CDR3  
10 unique J



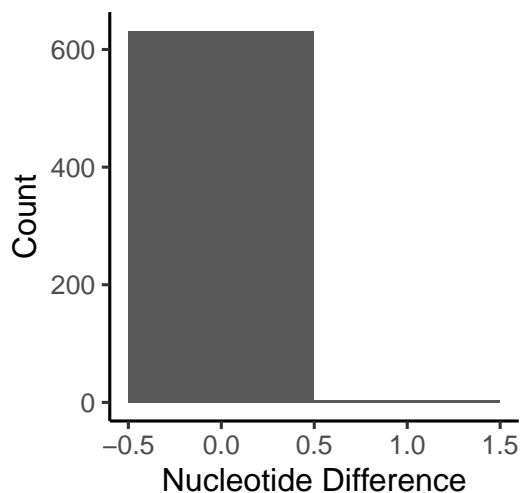
### TRBV7-4\*ap01

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



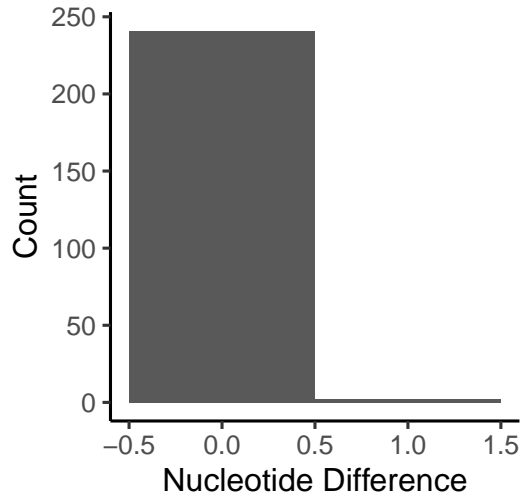
### TRBV7-6\*ap01

636 sequences assigned  
632 (99.4%) exact matches, in which:  
621 unique CDR3  
13 unique J



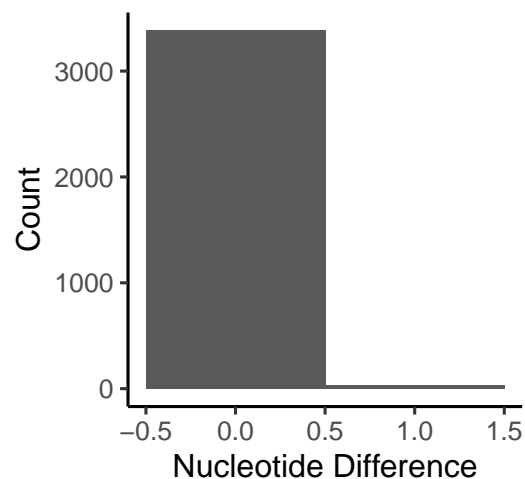
### TRBV7-8\*ap01

243 sequences assigned  
241 (99.2%) exact matches, in which:  
236 unique CDR3  
13 unique J



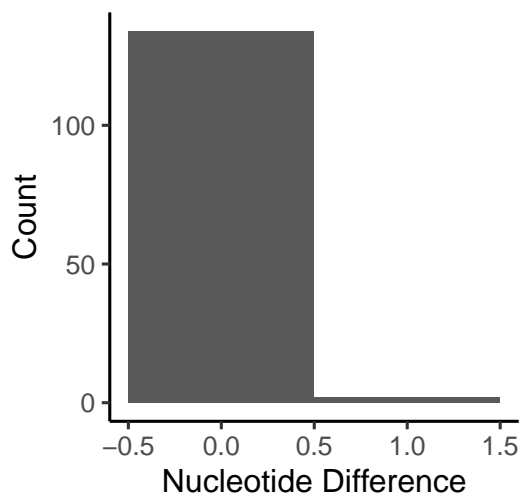
### TRBV7-9\*ap01

3415 sequences assigned  
3384 (99.1%) exact matches, in which:  
3326 unique CDR3  
13 unique J



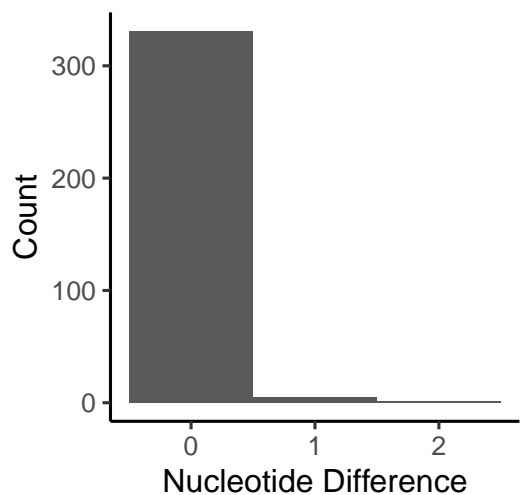
### TRBV7-7\*ap01

136 sequences assigned  
134 (98.5%) exact matches, in which:  
130 unique CDR3  
12 unique J



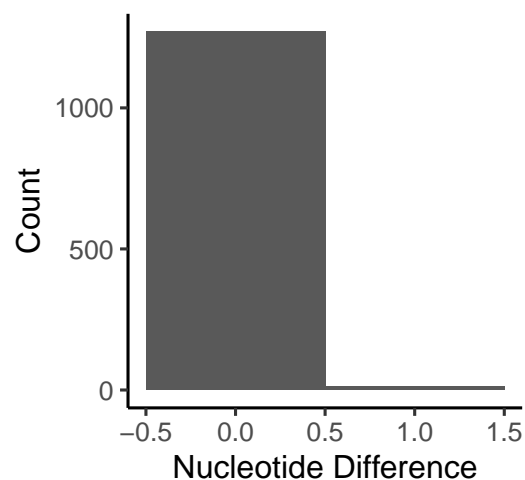
### TRBV7-8\*ap02

337 sequences assigned  
331 (98.2%) exact matches, in which:  
320 unique CDR3  
13 unique J



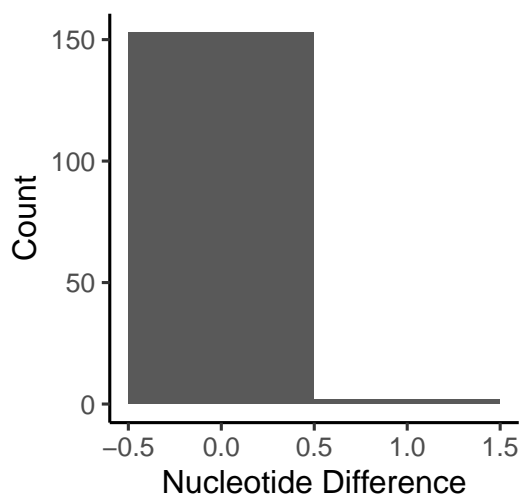
### TRBV29-1\*ap01

1283 sequences assigned  
1270 (99%) exact matches, in which:  
1256 unique CDR3  
13 unique J



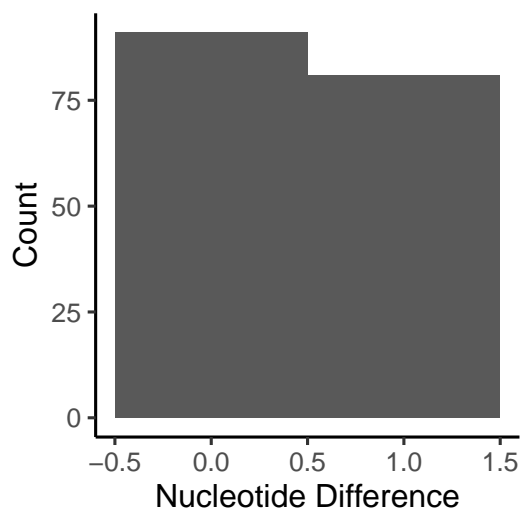
### TRBV7-7\*ap01\_C315T

155 sequences assigned  
153 (98.7%) exact matches, in which:  
151 unique CDR3  
12 unique J



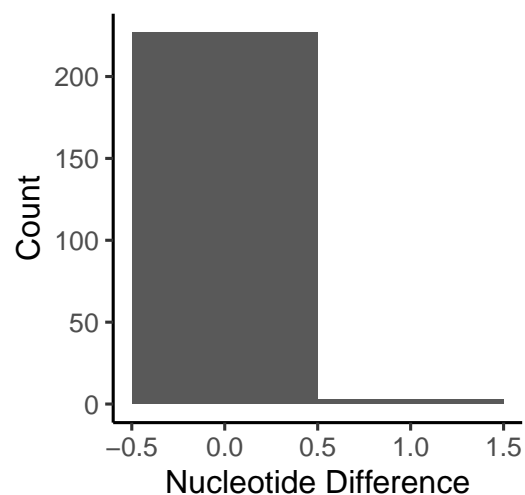
### TRBV7-8\*ap03

172 sequences assigned  
91 (52.9%) exact matches, in which:  
86 unique CDR3  
10 unique J

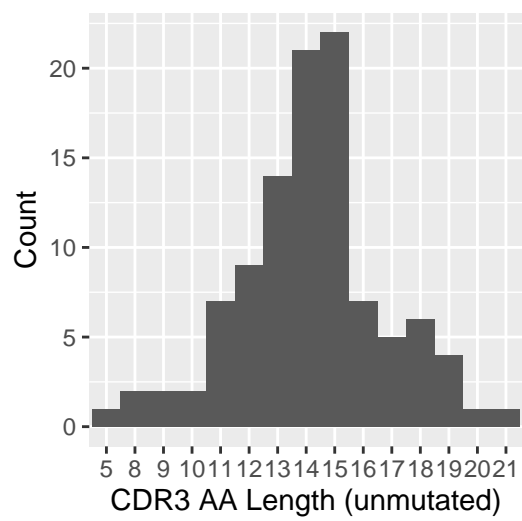


### TRBV29-1\*ap02

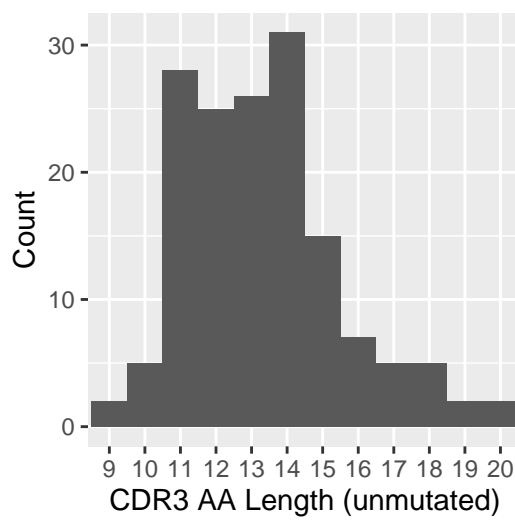
230 sequences assigned  
227 (98.7%) exact matches, in which:  
223 unique CDR3  
13 unique J



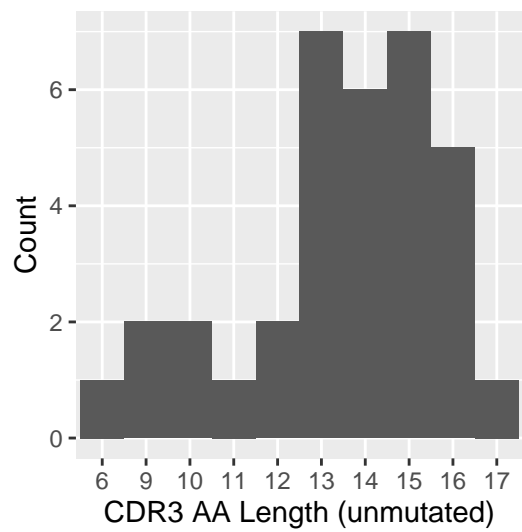
TRBV12-2\*ap01\_G301A



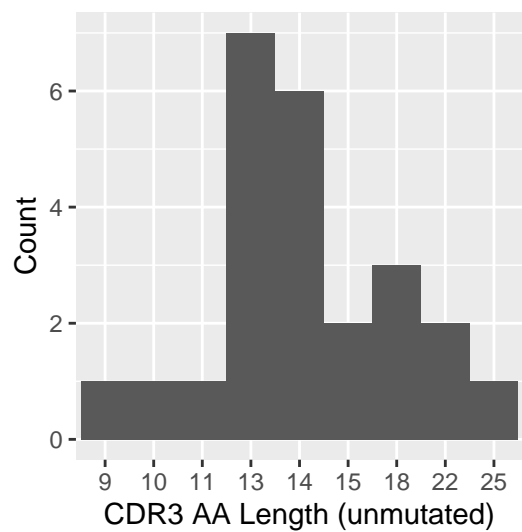
TRBV7-7\*ap01\_C315T



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



TRBV7-1\*ap01\_G291C\_T296C





Warning – no inferred sequences found.

Warning – no inferred sequences found.