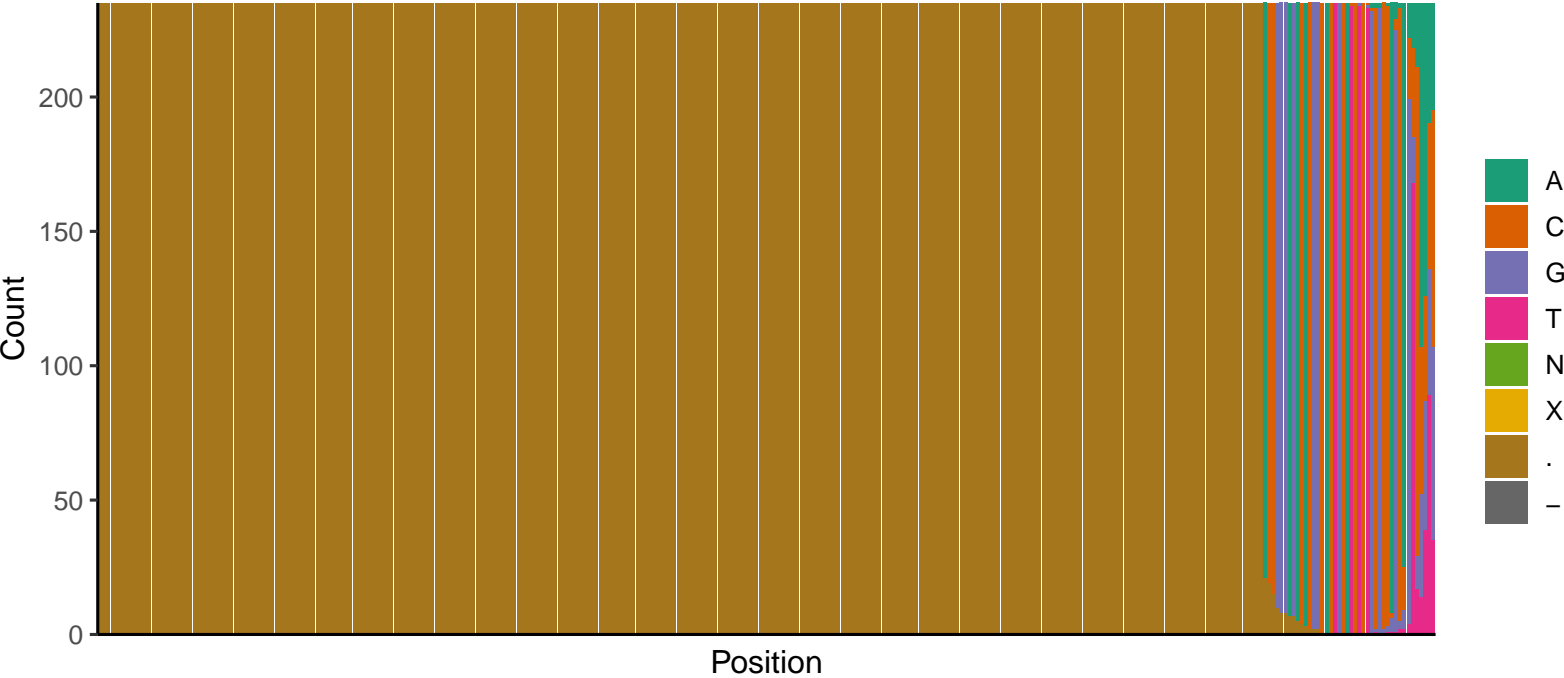
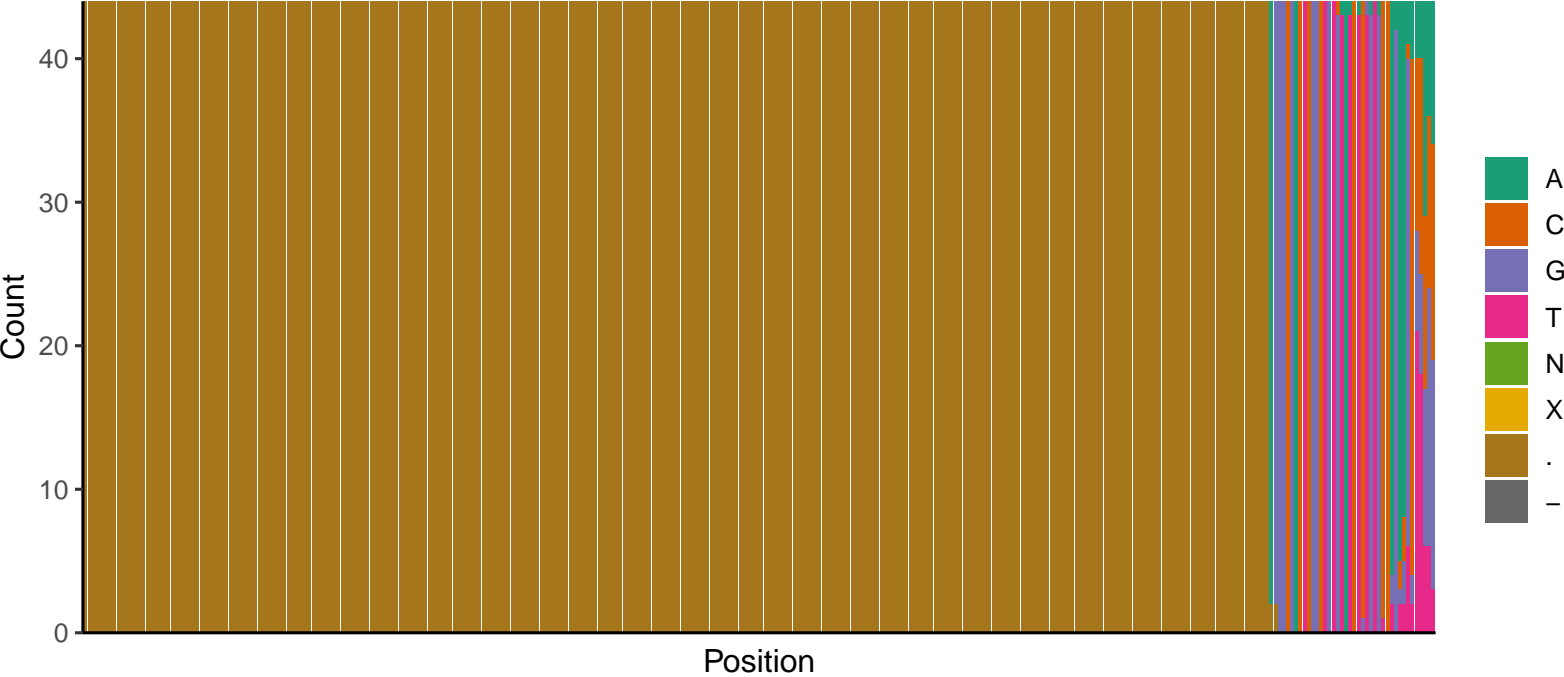


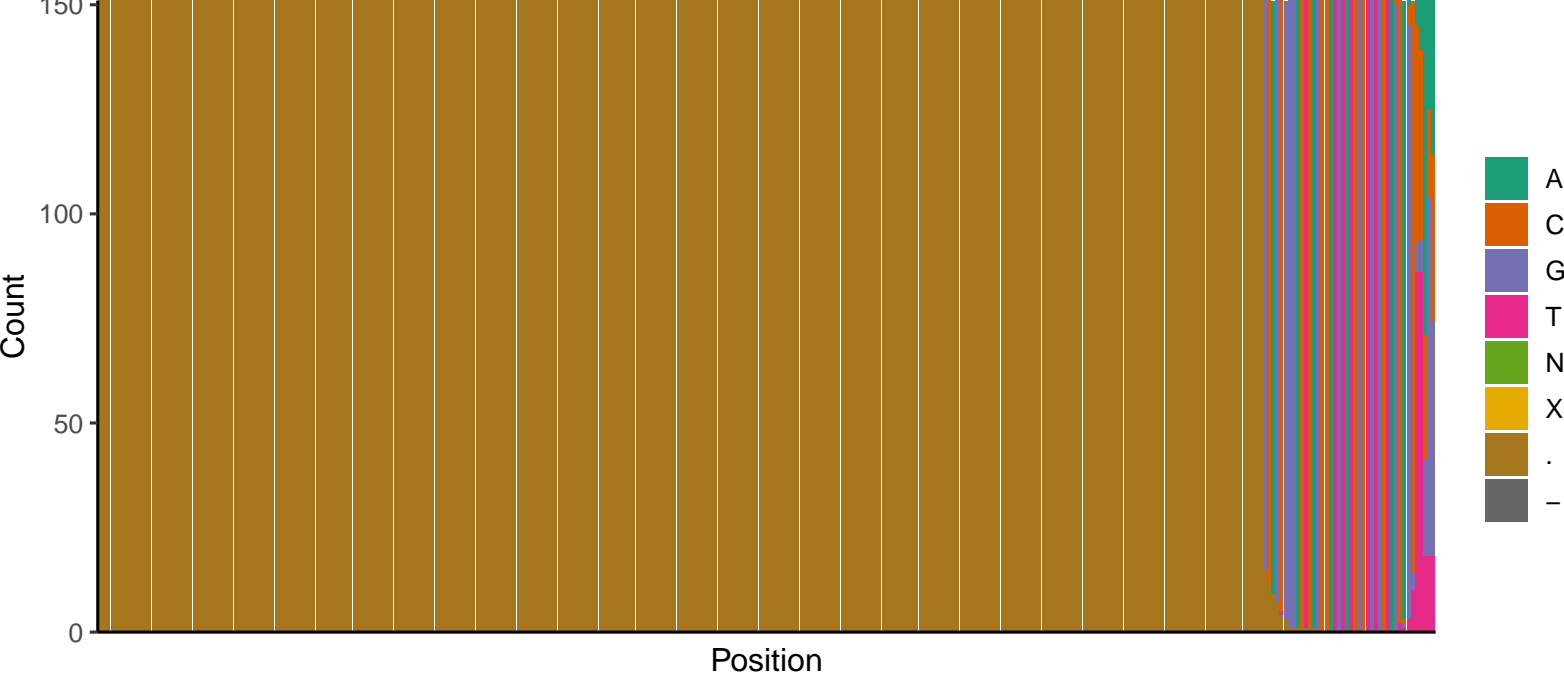
Gene TRBV23-1\*ap01\_T304C



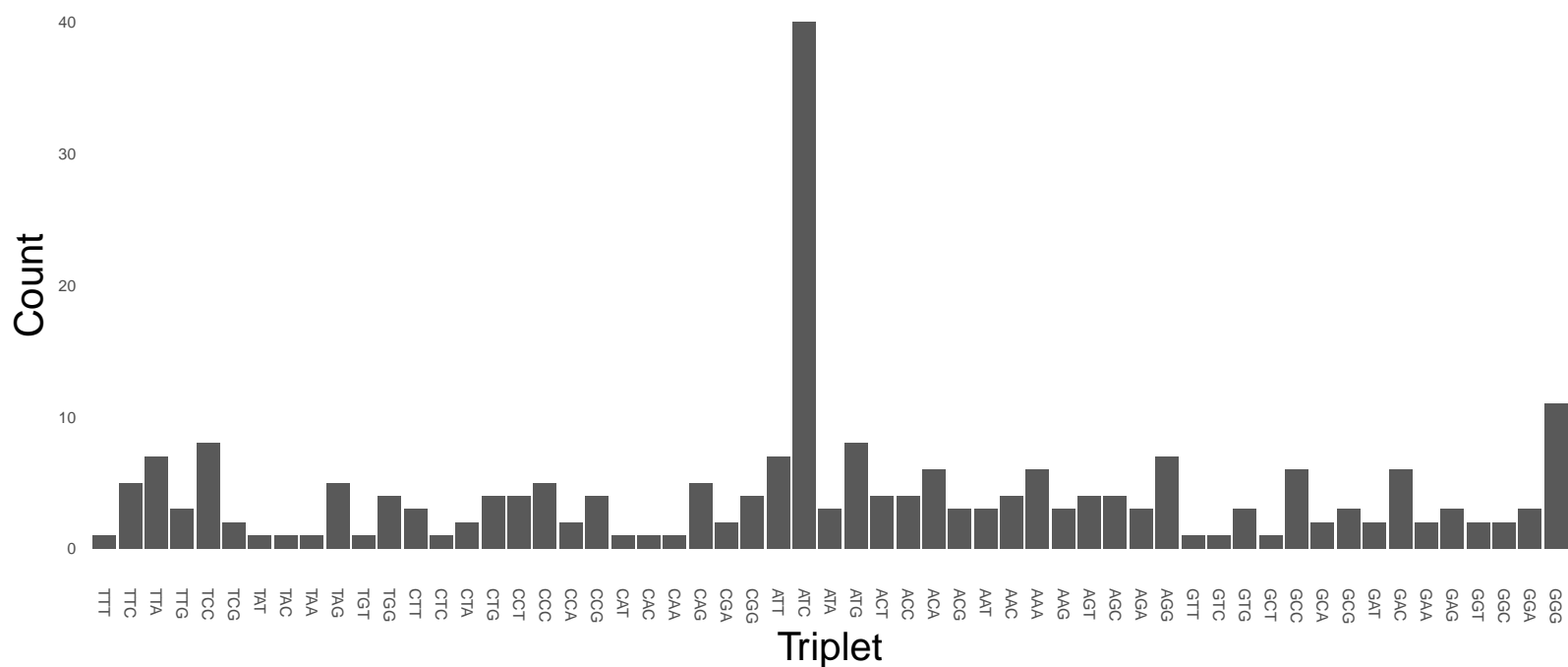
Gene TRBV7-1\*ap01\_G291C\_T296C



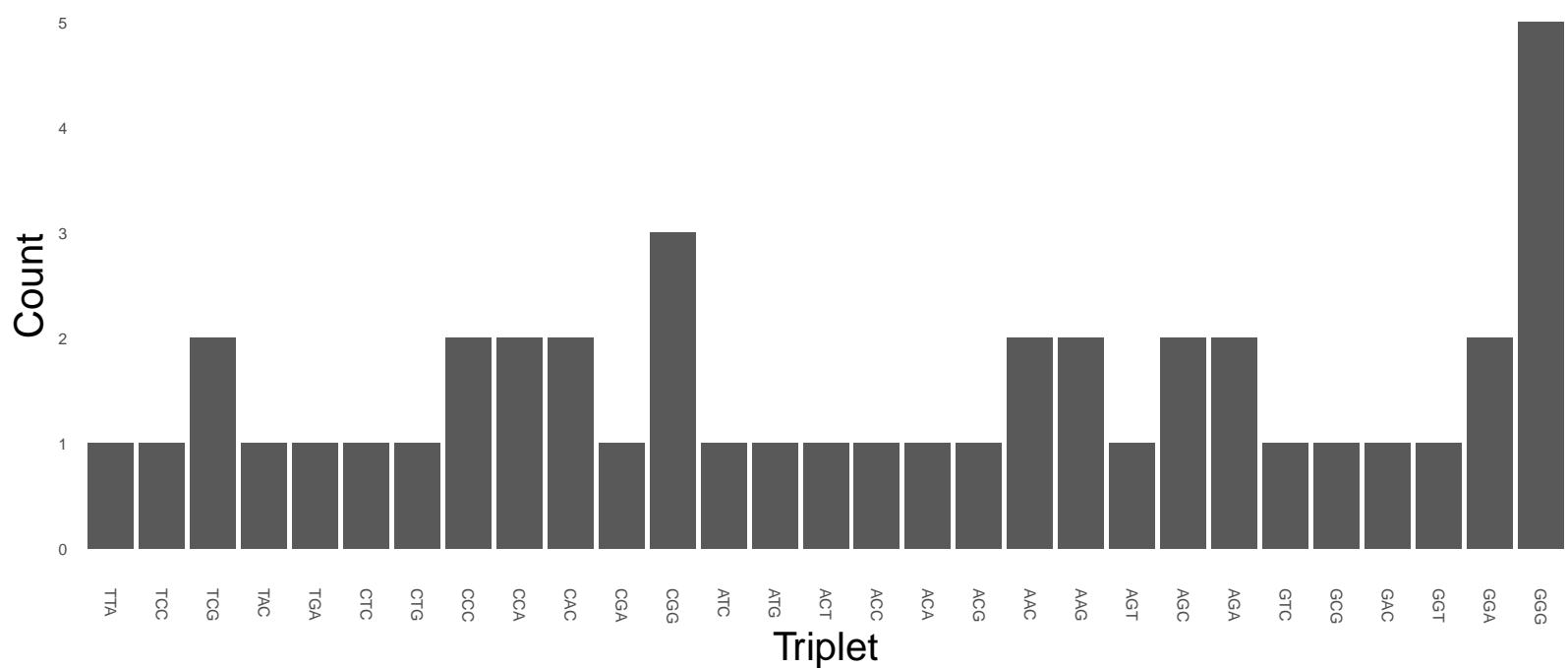
Gene TRBV7-7\*ap01\_C315T



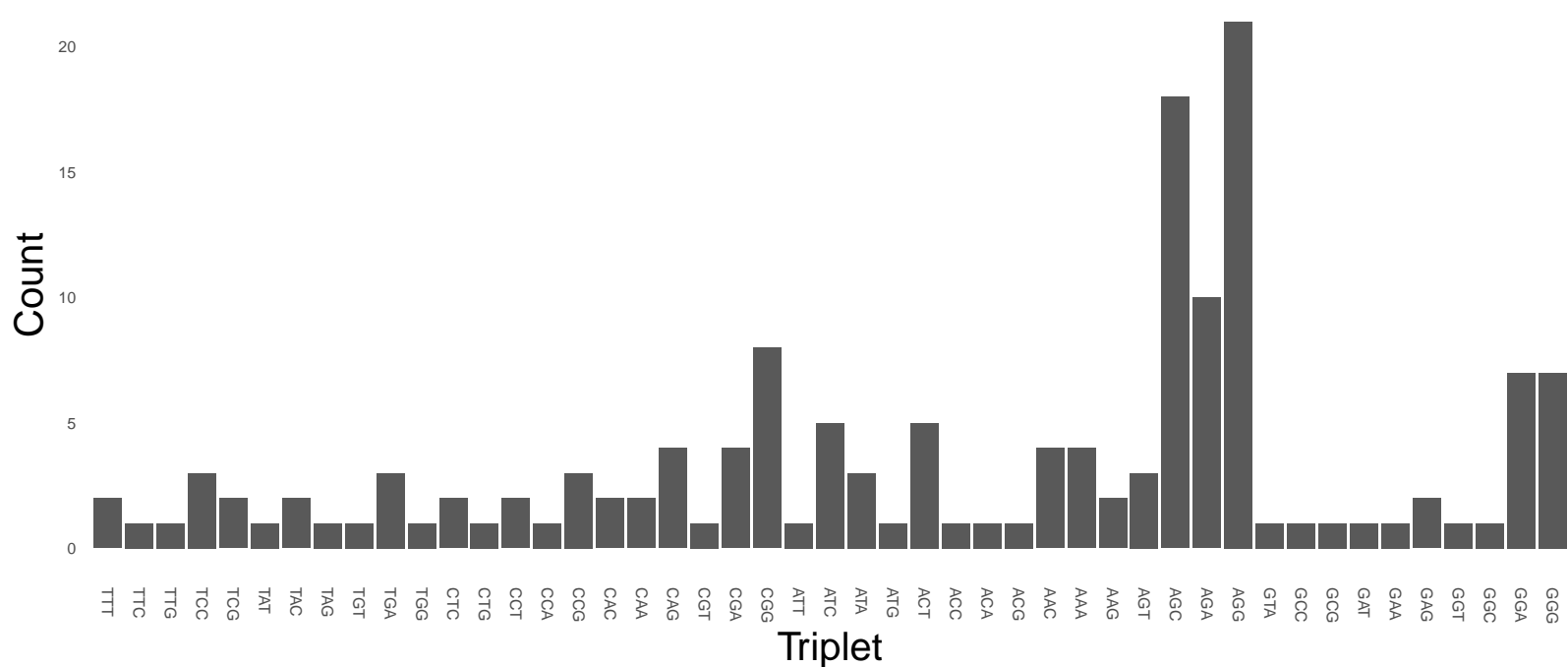
TRBV23-1\*ap01\_T304C- Final 3 nucleotides as a triplet



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

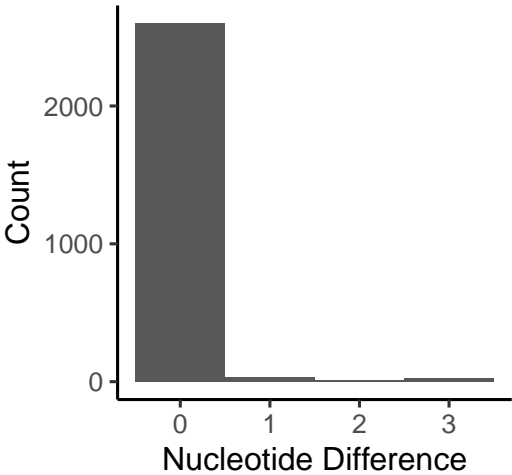


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



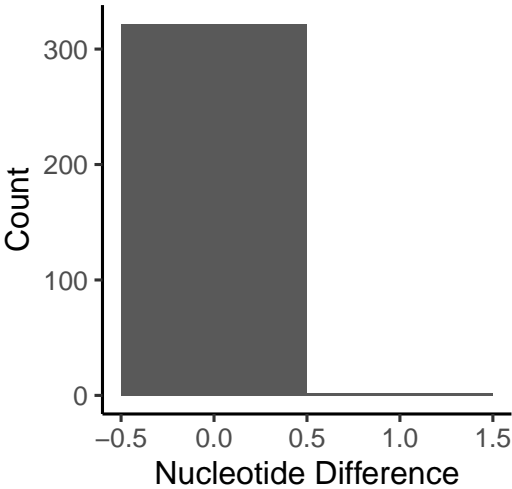
TRBV20-1\*ap01

2662 sequences assigned  
2599 (97.6%) exact matches, in which:  
2548 unique CDR3  
13 unique J



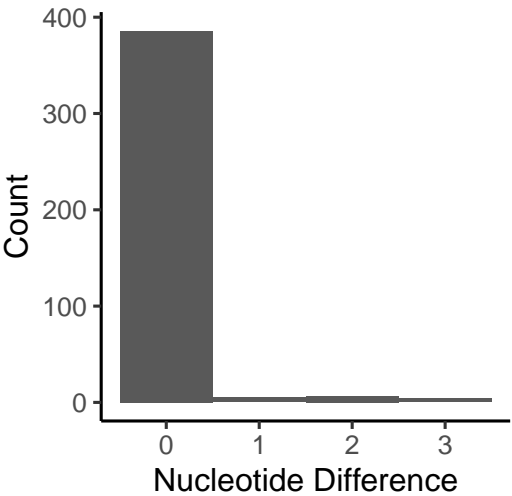
TRBV10-2\*ap01

324 sequences assigned  
322 (99.4%) exact matches, in which:  
314 unique CDR3  
13 unique J



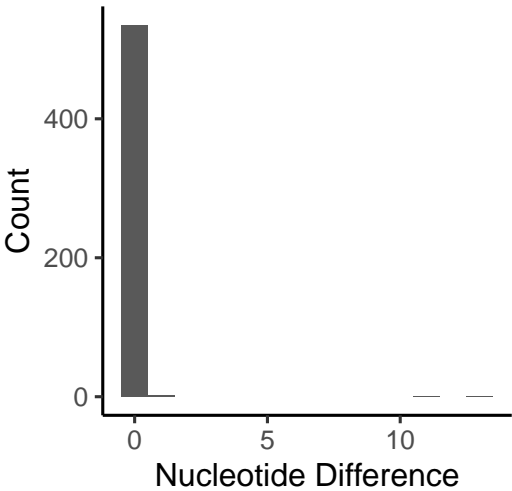
TRBV13\*ap01

402 sequences assigned  
386 (96%) exact matches, in which:  
376 unique CDR3  
13 unique J



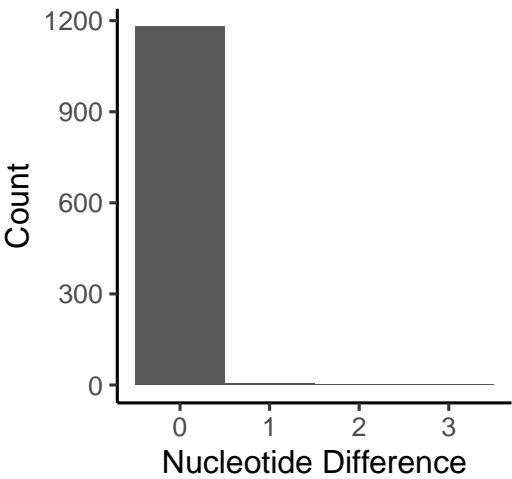
TRBV10-1\*ap01

539 sequences assigned  
535 (99.3%) exact matches, in which:  
530 unique CDR3  
13 unique J



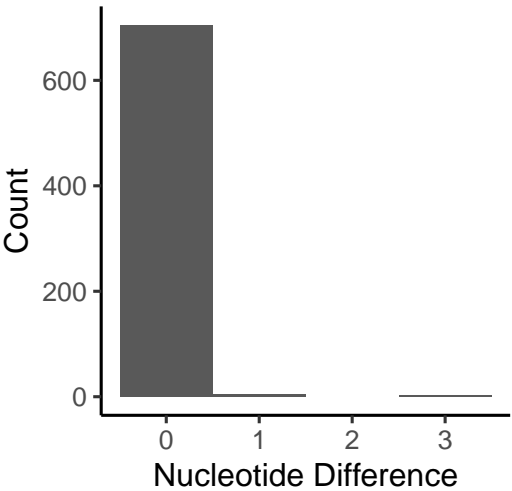
TRBV10-3\*ap01

1188 sequences assigned  
1180 (99.3%) exact matches, in which:  
1159 unique CDR3  
13 unique J



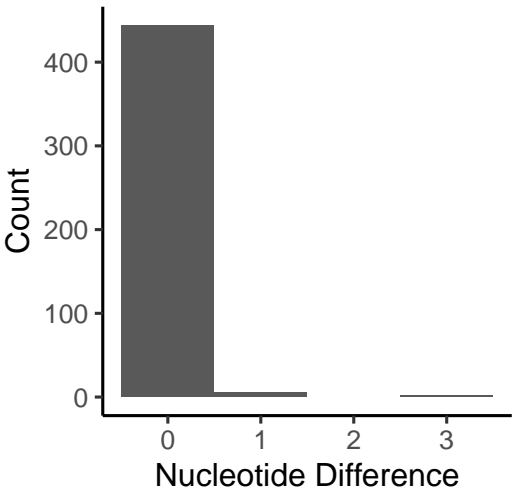
TRBV14\*ap01

712 sequences assigned  
705 (99%) exact matches, in which:  
698 unique CDR3  
13 unique J



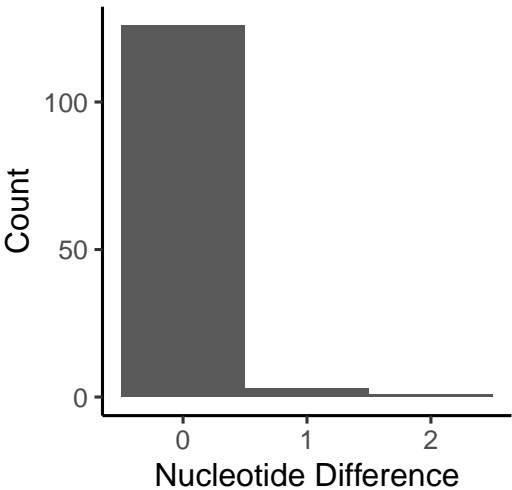
TRBV20-1\*ap02

451 sequences assigned  
444 (98.4%) exact matches, in which:  
435 unique CDR3  
13 unique J



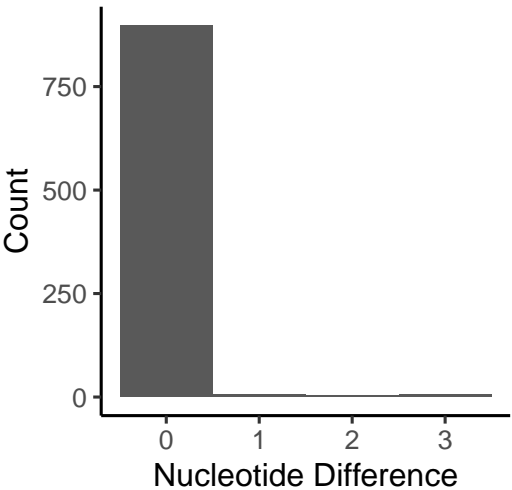
TRBV1\*ap01

130 sequences assigned  
126 (96.9%) exact matches, in which:  
123 unique CDR3  
12 unique J



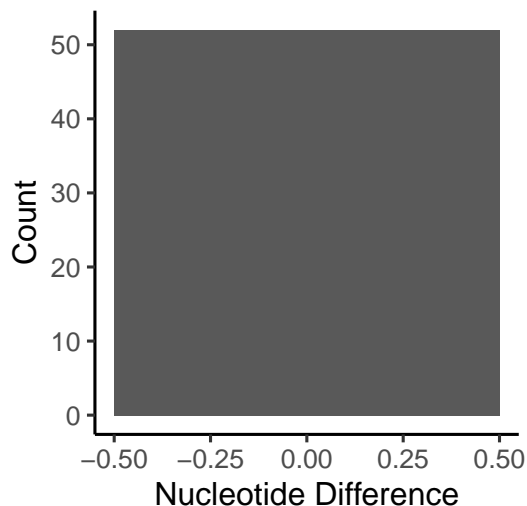
TRBV15\*ap02

914 sequences assigned  
898 (98.2%) exact matches, in which:  
887 unique CDR3  
13 unique J



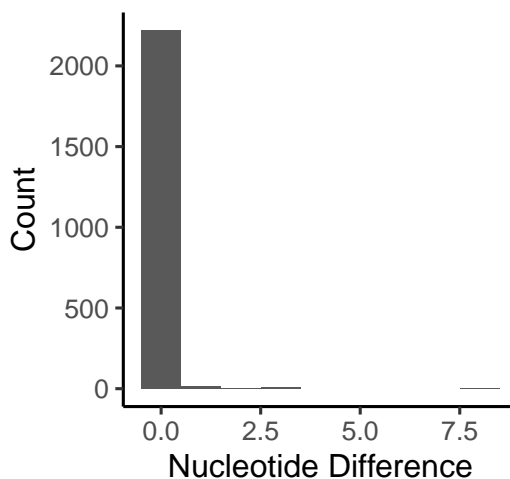
### TRBV16\*ap01

52 sequences assigned  
52 (100%) exact matches, in which:  
52 unique CDR3  
13 unique J



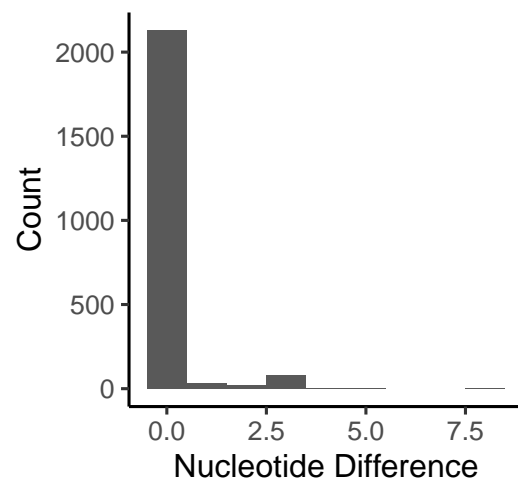
### TRBV2\*ap01

2251 sequences assigned  
2220 (98.6%) exact matches, in which:  
2182 unique CDR3  
13 unique J



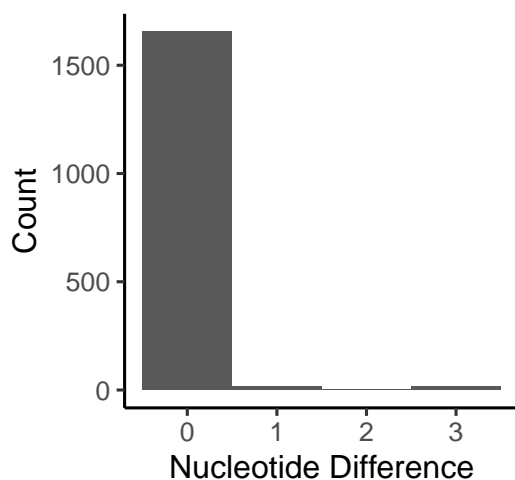
### TRBV30\*ap01

2265 sequences assigned  
2129 (94%) exact matches, in which:  
2084 unique CDR3  
13 unique J



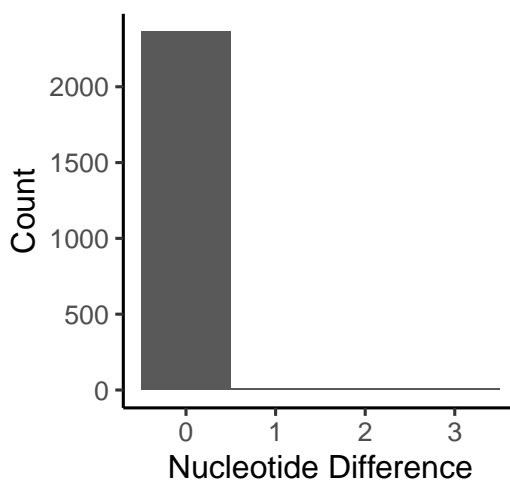
### TRBV18\*ap01

1691 sequences assigned  
1655 (97.9%) exact matches, in which:  
1624 unique CDR3  
13 unique J



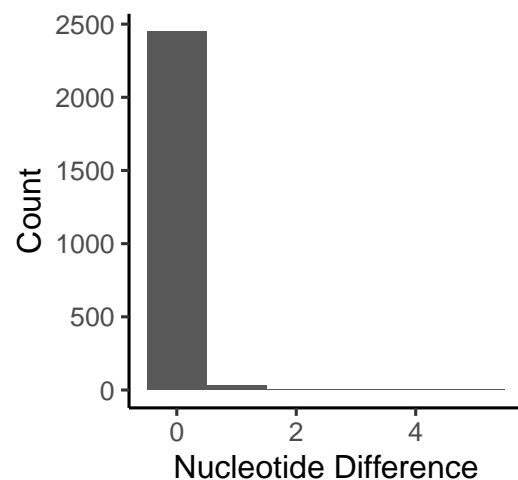
### TRBV27\*ap01

2395 sequences assigned  
2363 (98.7%) exact matches, in which:  
2339 unique CDR3  
13 unique J



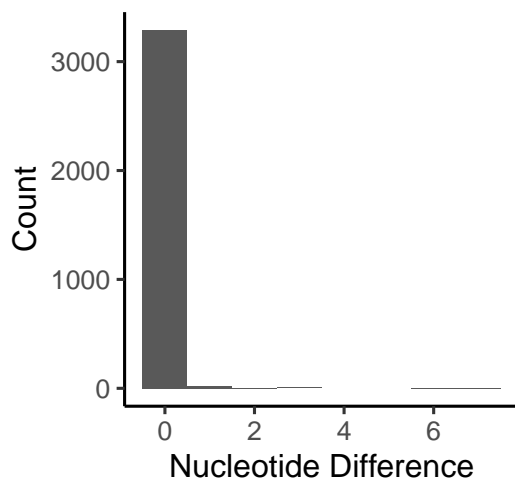
### TRBV9\*ap01

2488 sequences assigned  
2448 (98.4%) exact matches, in which:  
2398 unique CDR3  
13 unique J



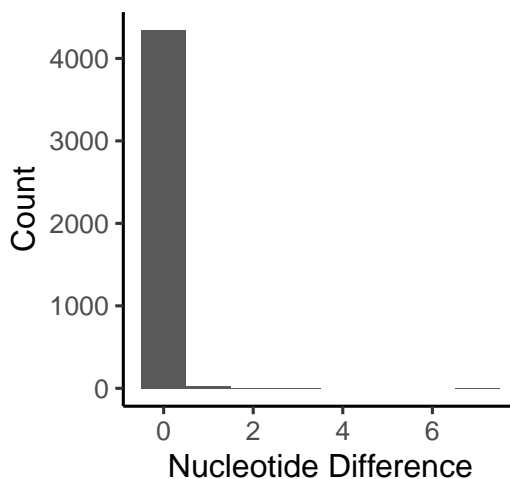
### TRBV19\*ap01

3324 sequences assigned  
3290 (99%) exact matches, in which:  
3241 unique CDR3  
13 unique J



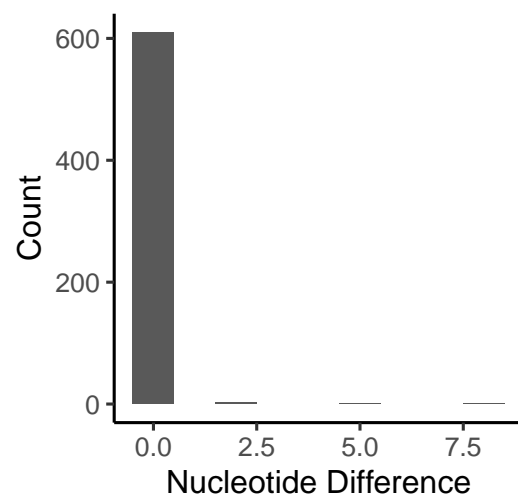
### TRBV28\*ap01

4382 sequences assigned  
4344 (99.1%) exact matches, in which:  
4292 unique CDR3  
13 unique J



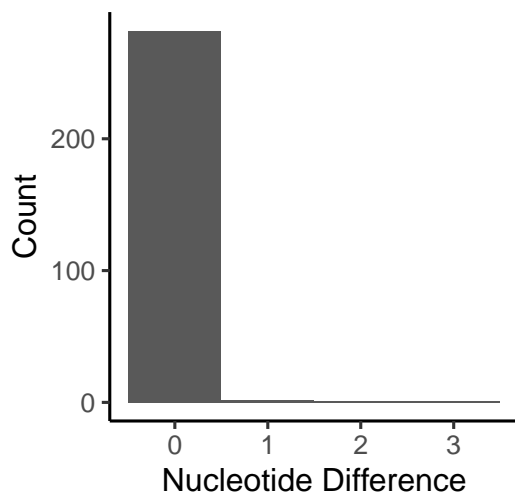
### TRBV21-1\*ap01

614 sequences assigned  
610 (99.3%) exact matches, in which:  
609 unique CDR3  
13 unique J



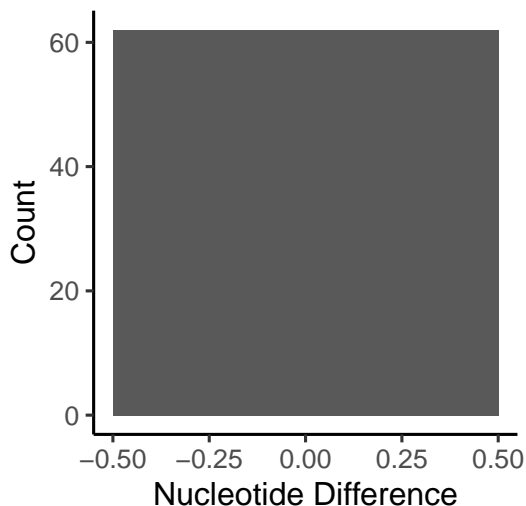
### TRBV11-1\*ap01

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



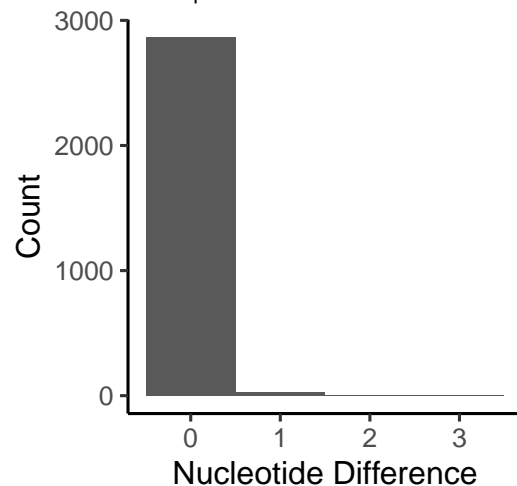
### TRBV12-1\*ap01

62 sequences assigned  
62 (100%) exact matches, in which:  
61 unique CDR3  
12 unique J



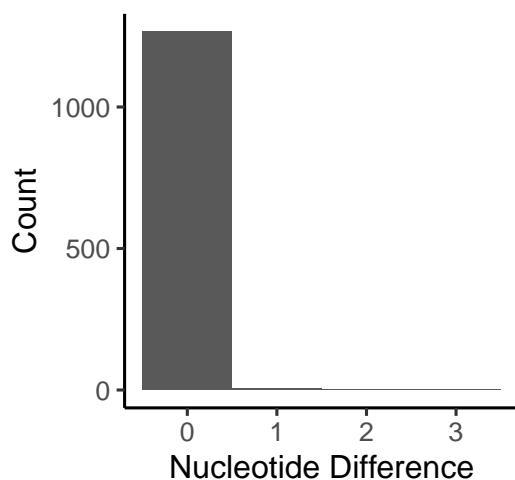
### TRBV12-34\*ap01

2901 sequences assigned  
2864 (98.7%) exact matches, in which:  
2826 unique CDR3  
13 unique J



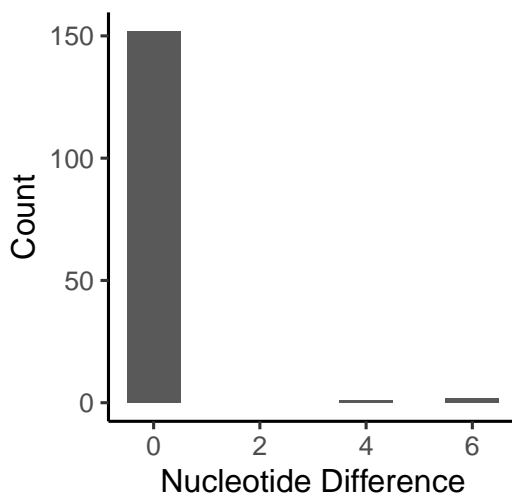
### TRBV11-2\*ap01

1273 sequences assigned  
1266 (99.5%) exact matches, in which:  
1248 unique CDR3  
13 unique J



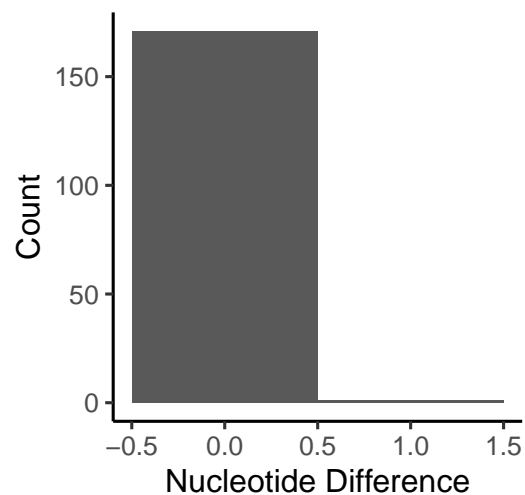
### TRBV12-2\*ap01

155 sequences assigned  
152 (98.1%) exact matches, in which:  
151 unique CDR3  
13 unique J



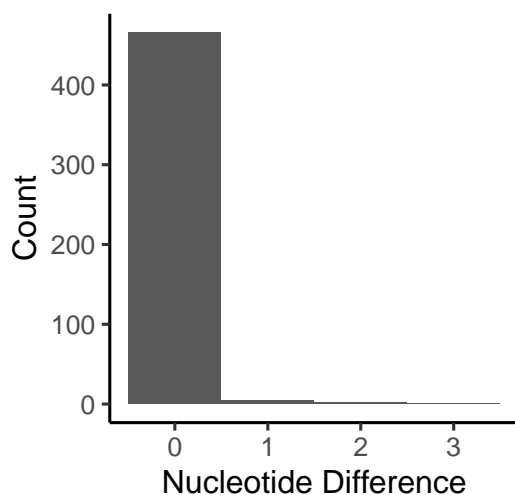
### TRBV23-1\*ap01

172 sequences assigned  
171 (99.4%) exact matches, in which:  
169 unique CDR3  
13 unique J



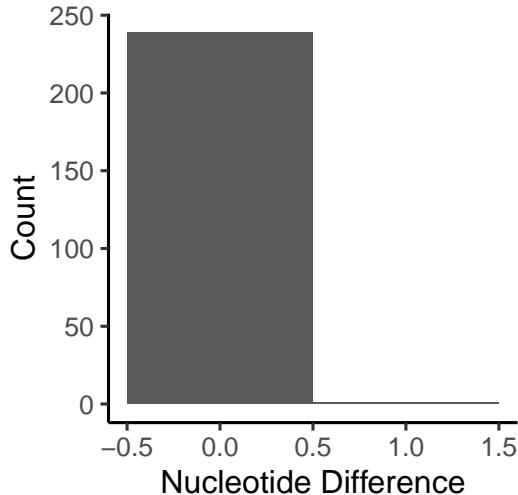
### TRBV11-3\*ap01

473 sequences assigned  
466 (98.5%) exact matches, in which:  
461 unique CDR3  
13 unique J



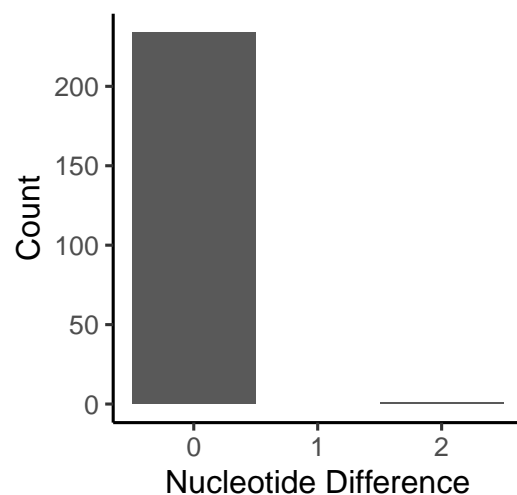
### TRBV12-5\*ap01

240 sequences assigned  
239 (99.6%) exact matches, in which:  
237 unique CDR3  
13 unique J



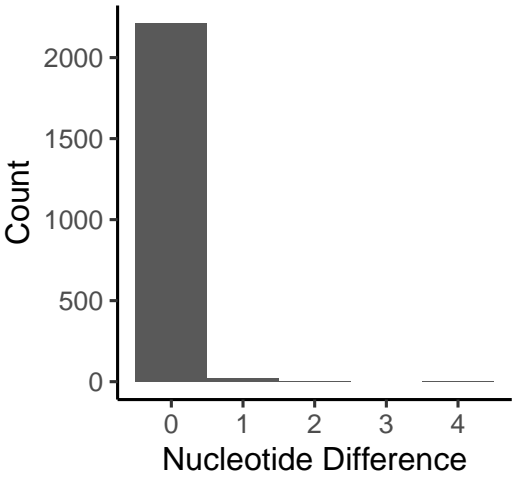
### TRBV23-1\*ap01\_T304C

235 sequences assigned  
234 (99.6%) exact matches, in which:  
229 unique CDR3  
13 unique J



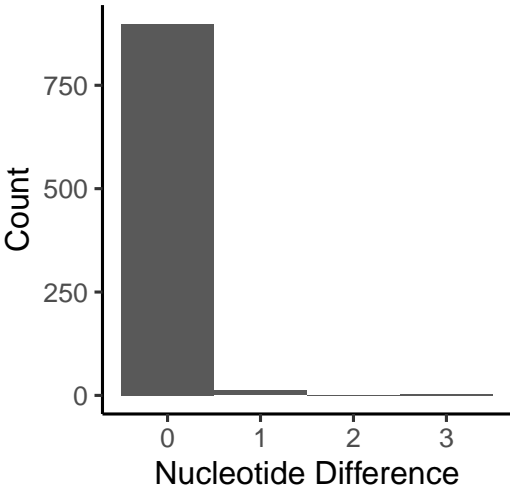
TRBV3-12\*ap01

2239 sequences assigned  
2211 (98.7%) exact matches, in which:  
2192 unique CDR3  
13 unique J



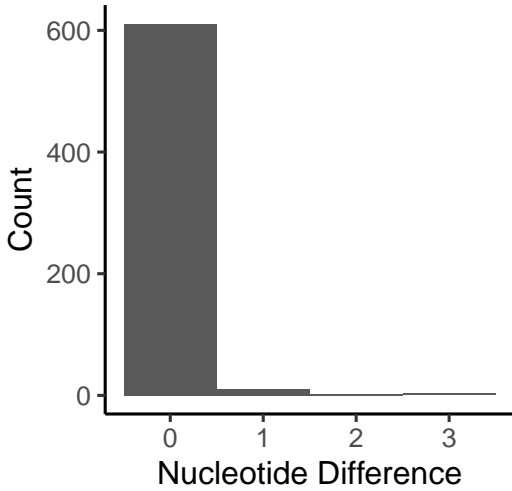
TRBV4-2\*ap01

915 sequences assigned  
899 (98.3%) exact matches, in which:  
890 unique CDR3  
13 unique J



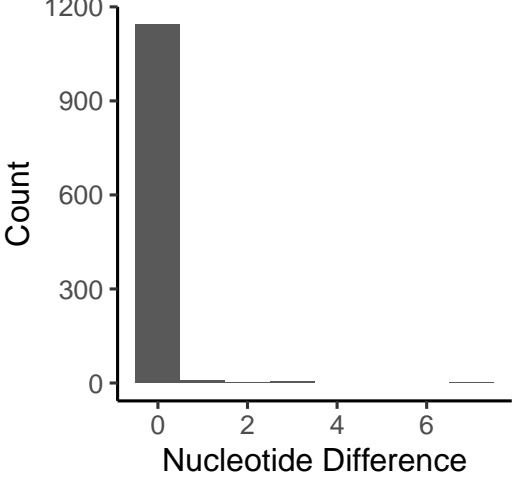
TRBV25-1\*ap01

626 sequences assigned  
611 (97.6%) exact matches, in which:  
594 unique CDR3  
13 unique J



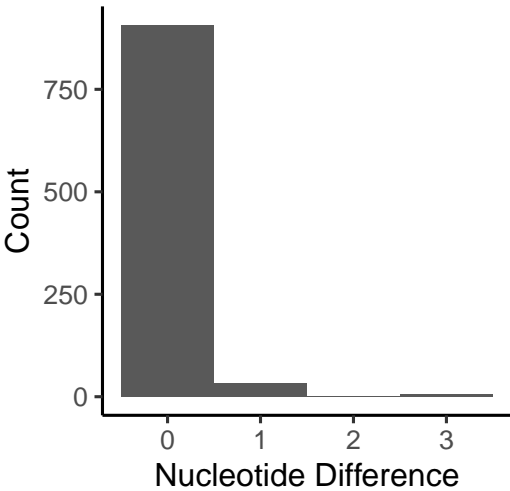
TRBV24-1\*ap01

1160 sequences assigned  
1143 (98.5%) exact matches, in which:  
1127 unique CDR3  
13 unique J



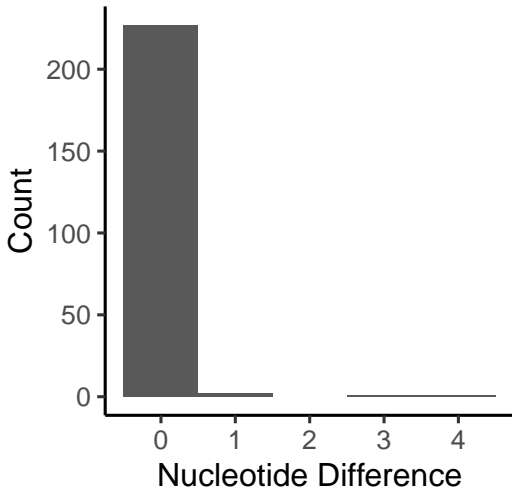
TRBV4-3\*ap01

949 sequences assigned  
907 (95.6%) exact matches, in which:  
886 unique CDR3  
13 unique J



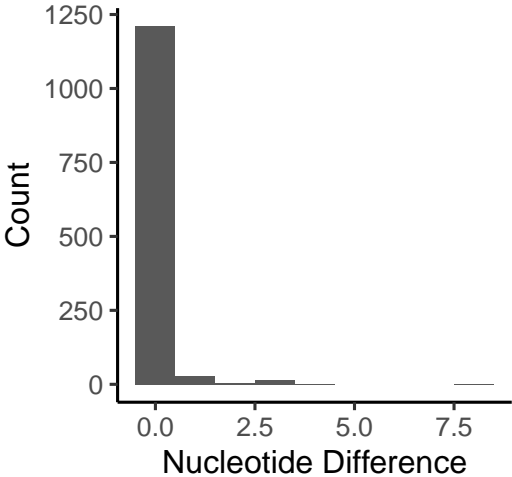
TRBV5-3\*ap01

231 sequences assigned  
227 (98.3%) exact matches, in which:  
221 unique CDR3  
13 unique J



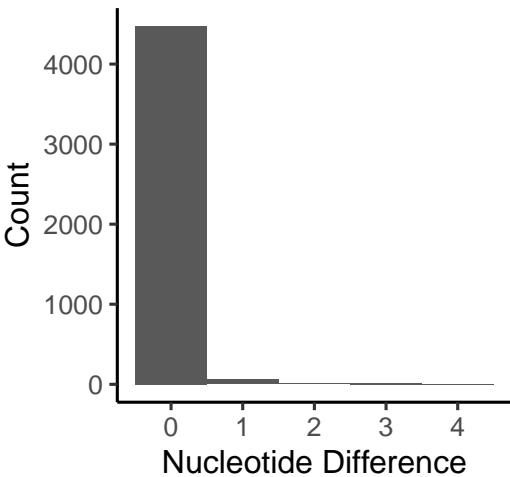
TRBV4-1\*ap01

1262 sequences assigned  
1211 (96%) exact matches, in which:  
1188 unique CDR3  
13 unique J



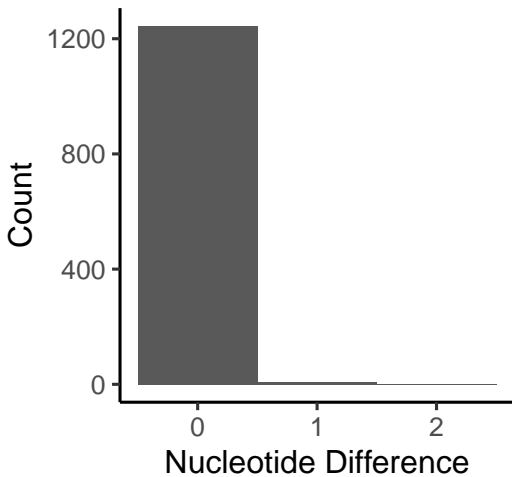
TRBV5-1\*ap01

4565 sequences assigned  
4475 (98%) exact matches, in which:  
4389 unique CDR3  
13 unique J



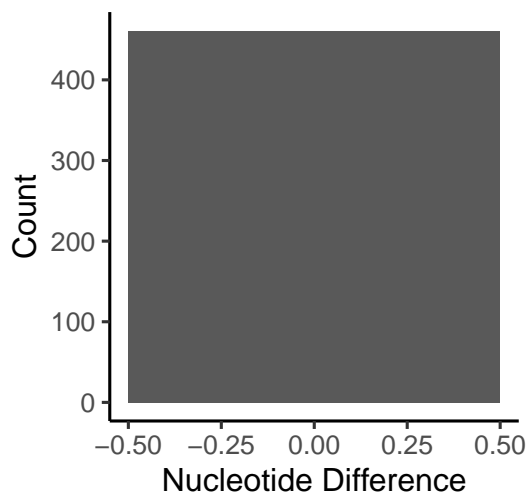
TRBV5-4\*ap01

1255 sequences assigned  
1244 (99.1%) exact matches, in which:  
1227 unique CDR3  
13 unique J



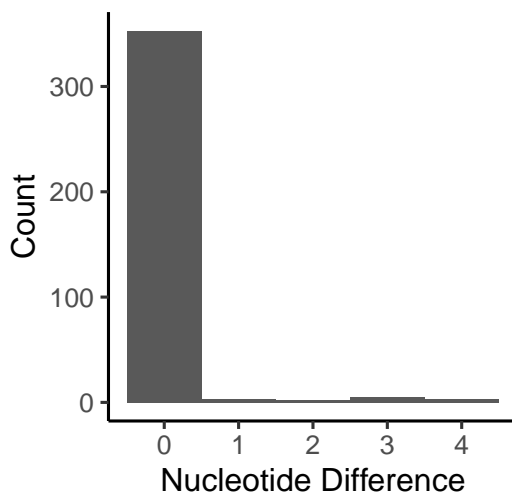
### TRBV5-5\*ap01

461 sequences assigned  
461 (100%) exact matches, in which:  
457 unique CDR3  
13 unique J



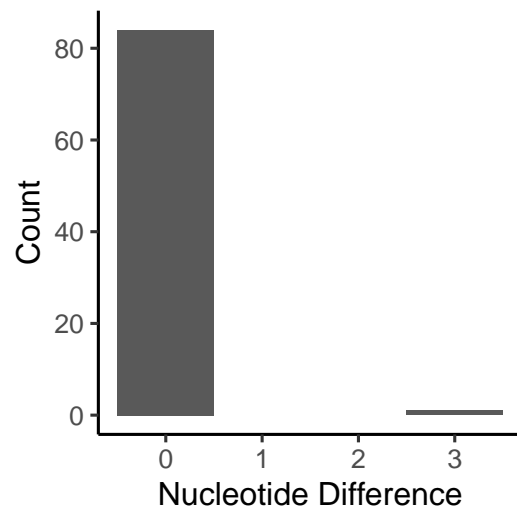
### TRBV5-8\*ap01

366 sequences assigned  
353 (96.4%) exact matches, in which:  
345 unique CDR3  
13 unique J



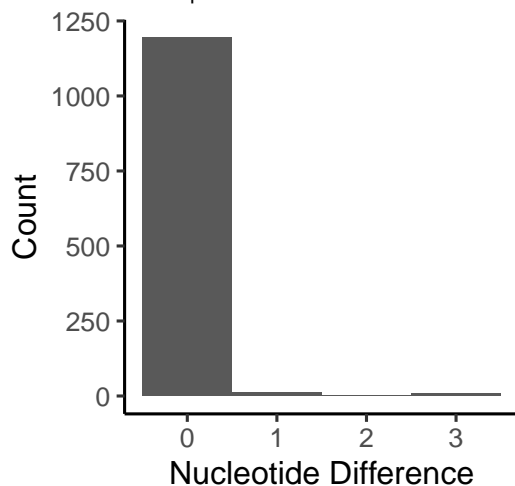
### TRBV6-7\*ap01

85 sequences assigned  
84 (98.8%) exact matches, in which:  
83 unique CDR3  
13 unique J



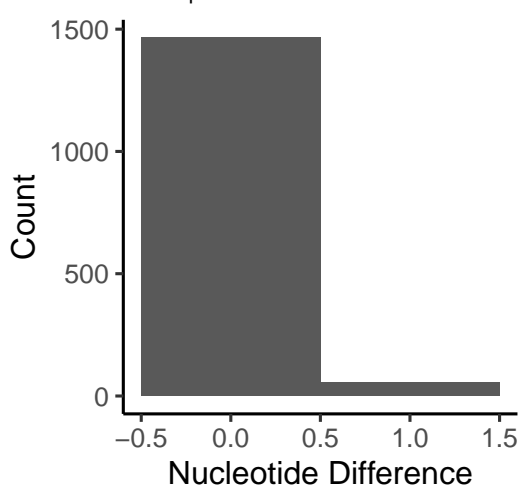
### TRBV5-6\*ap01

1214 sequences assigned  
1194 (98.4%) exact matches, in which:  
1167 unique CDR3  
13 unique J



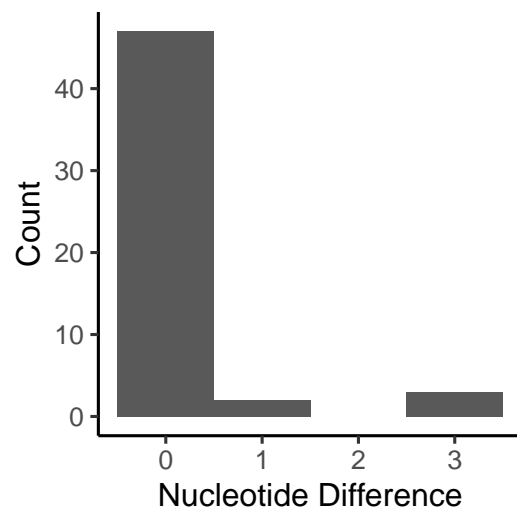
### TRBV6-1\*ap01

1521 sequences assigned  
1465 (96.3%) exact matches, in which:  
1427 unique CDR3  
13 unique J



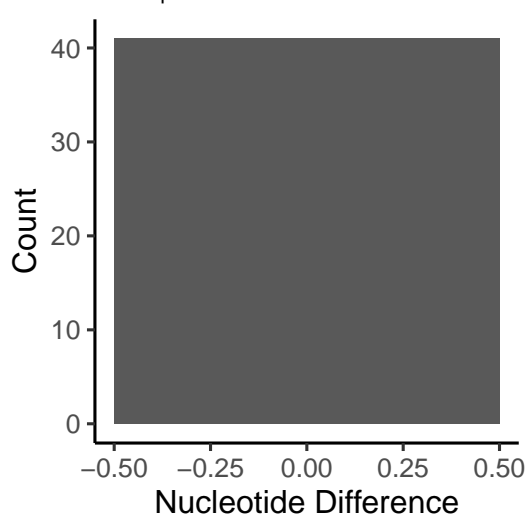
### TRBV6-8\*ap01

52 sequences assigned  
47 (90.4%) exact matches, in which:  
46 unique CDR3  
12 unique J



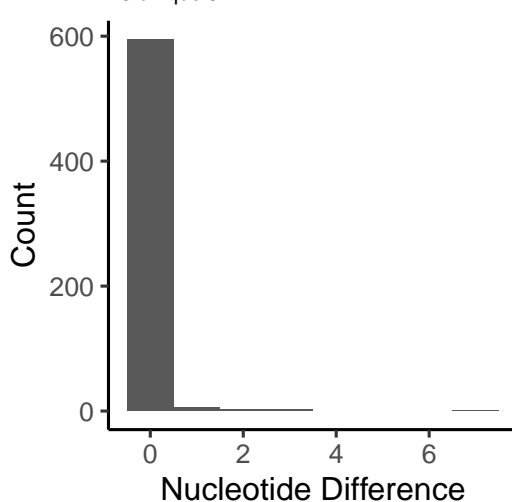
### TRBV5-7\*ap01

41 sequences assigned  
41 (100%) exact matches, in which:  
39 unique CDR3  
11 unique J



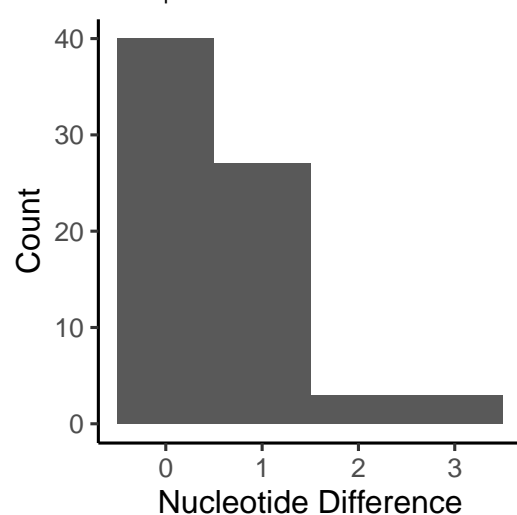
### TRBV6-4\*ap01

605 sequences assigned  
595 (98.3%) exact matches, in which:  
588 unique CDR3  
13 unique J



### TRBV6-9\*ap01

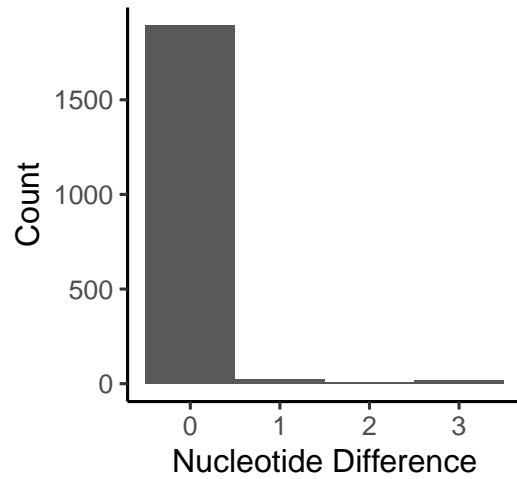
73 sequences assigned  
40 (54.8%) exact matches, in which:  
40 unique CDR3  
10 unique J





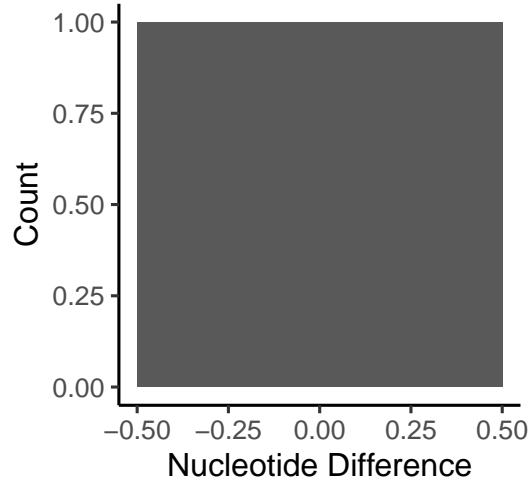
### TRBV6-23\*ap01

1939 sequences assigned  
1893 (97.6%) exact matches, in which:  
1846 unique CDR3  
13 unique J



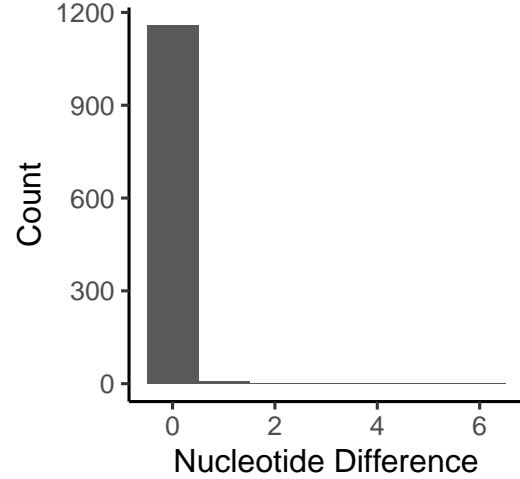
### TRBV7-1\*ap01

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



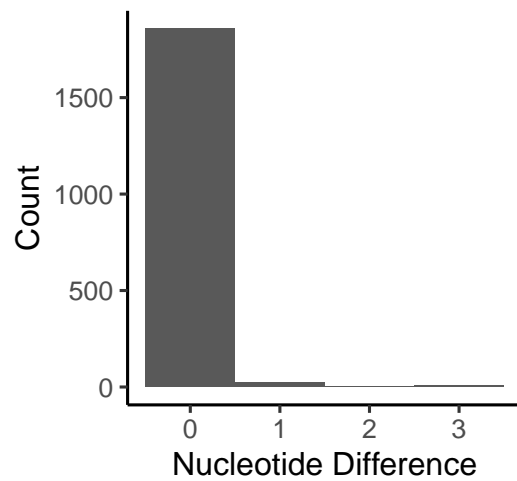
### TRBV7-3\*ap01

1173 sequences assigned  
1158 (98.7%) exact matches, in which:  
1145 unique CDR3  
13 unique J



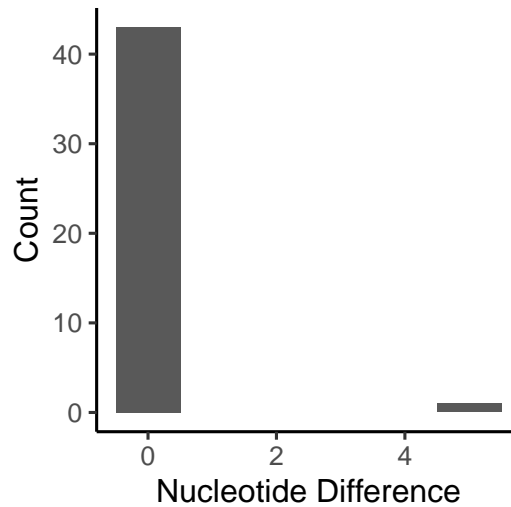
### TRBV6-56\*ap01

1891 sequences assigned  
1857 (98.2%) exact matches, in which:  
1811 unique CDR3  
13 unique J



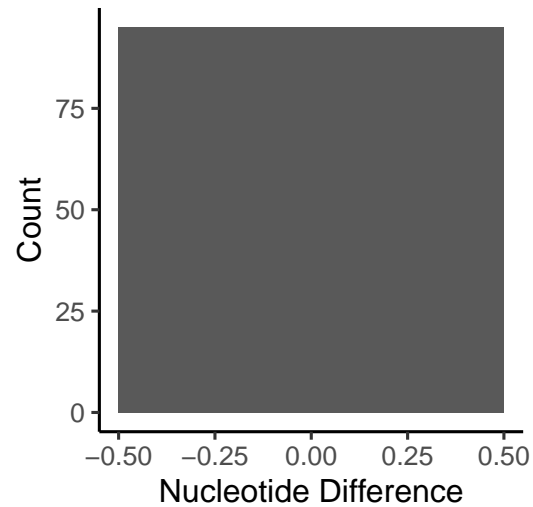
### TRBV7-1\*ap01\_G291C\_T

44 sequences assigned  
43 (97.7%) exact matches, in which:  
43 unique CDR3  
12 unique J



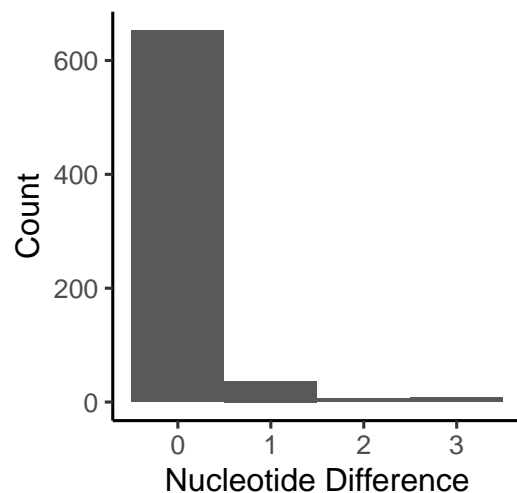
### TRBV7-4\*ap01

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



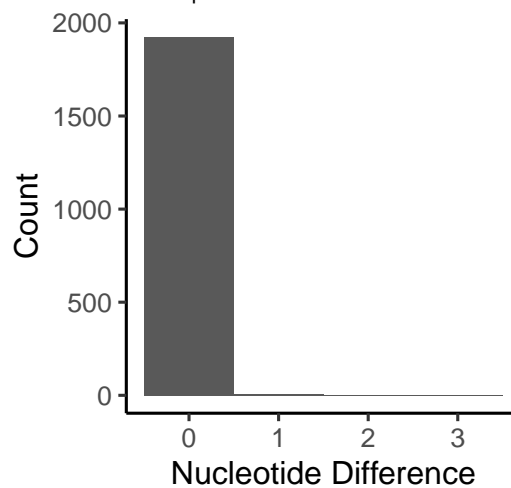
### TRBV6-56\*ap02

704 sequences assigned  
653 (92.8%) exact matches, in which:  
635 unique CDR3  
13 unique J



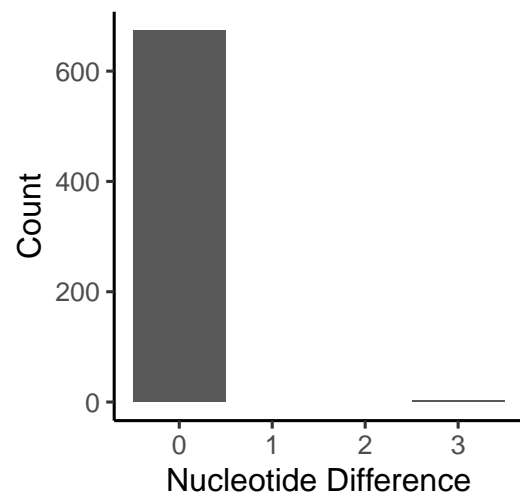
### TRBV7-2\*ap01

1932 sequences assigned  
1924 (99.6%) exact matches, in which:  
1898 unique CDR3  
13 unique J



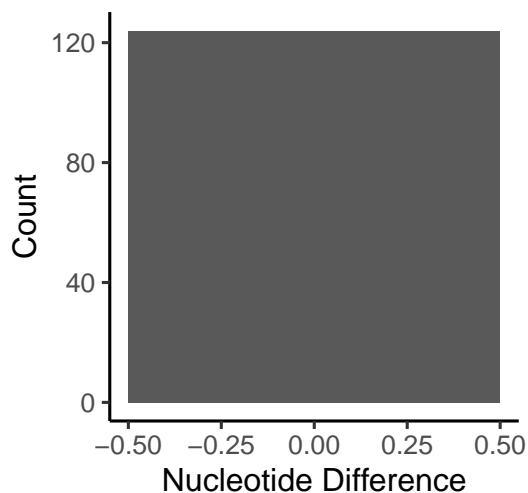
### TRBV7-6\*ap01

676 sequences assigned  
674 (99.7%) exact matches, in which:  
662 unique CDR3  
13 unique J



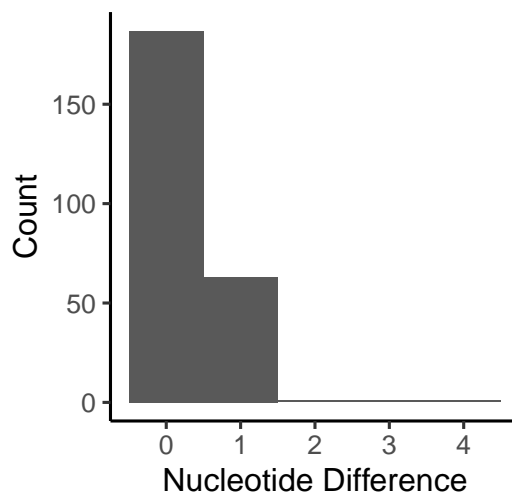
### TRBV7-7\*ap01

124 sequences assigned  
124 (100%) exact matches, in which:  
122 unique CDR3  
12 unique J



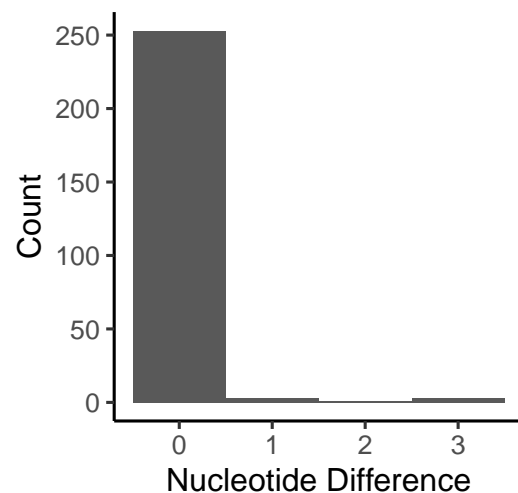
### TRBV7-8\*ap03

253 sequences assigned  
187 (73.9%) exact matches, in which:  
184 unique CDR3  
13 unique J



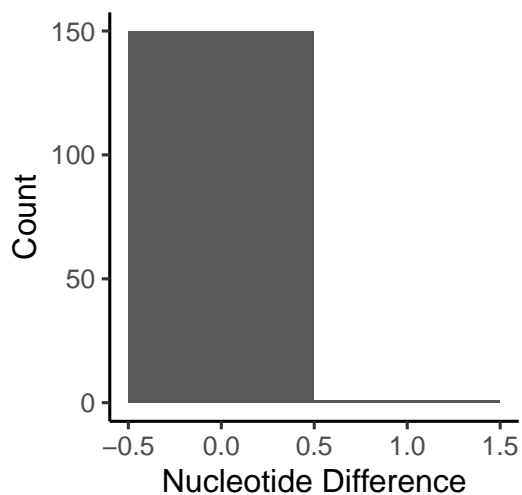
### TRBV29-1\*ap02

260 sequences assigned  
253 (97.3%) exact matches, in which:  
246 unique CDR3  
13 unique J



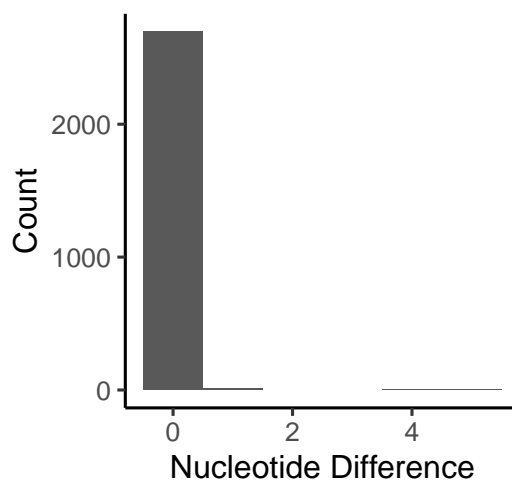
### TRBV7-7\*ap01\_C315T

151 sequences assigned  
150 (99.3%) exact matches, in which:  
147 unique CDR3  
13 unique J



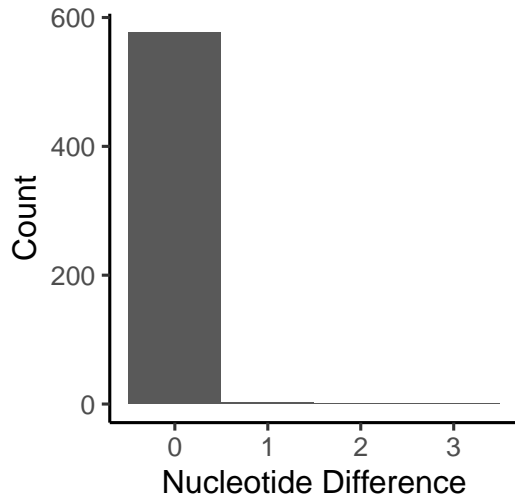
### TRBV7-9\*ap01

2713 sequences assigned  
2696 (99.4%) exact matches, in which:  
2655 unique CDR3  
13 unique J



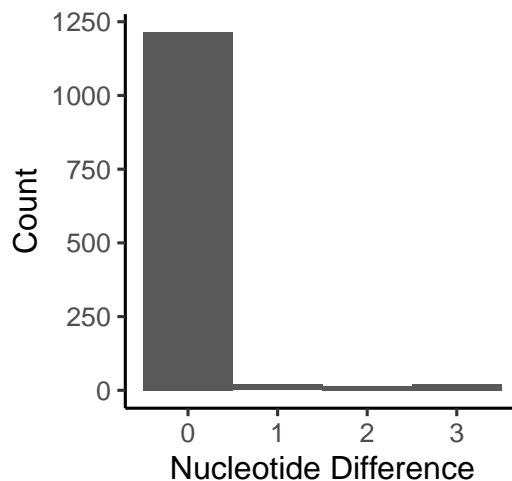
### TRBV7-8\*ap01

582 sequences assigned  
577 (99.1%) exact matches, in which:  
568 unique CDR3  
13 unique J

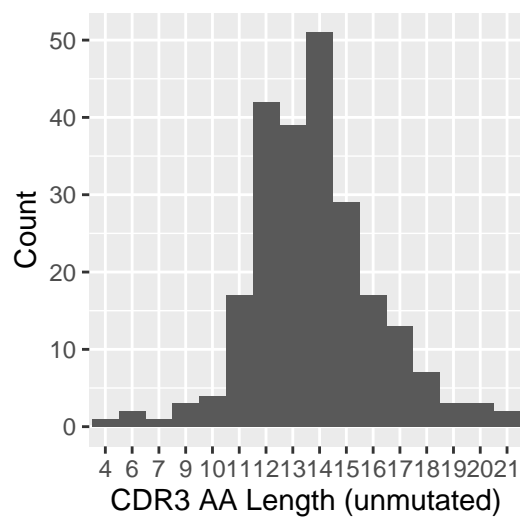


### TRBV29-1\*ap01

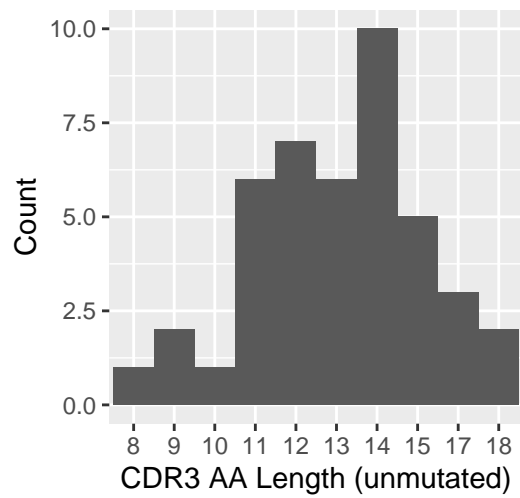
1271 sequences assigned  
1215 (95.6%) exact matches, in which:  
1186 unique CDR3  
13 unique J



TRBV23-1\*ap01\_T304C



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

