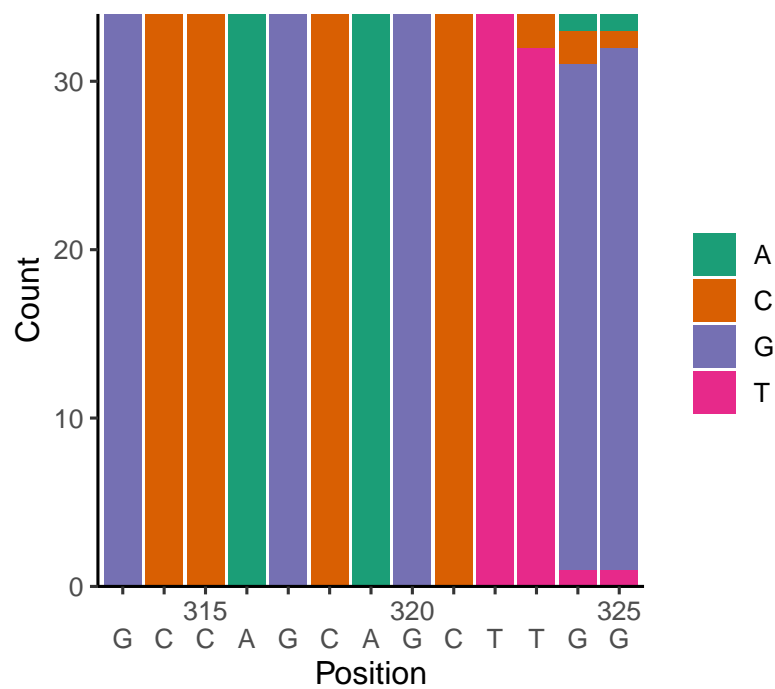
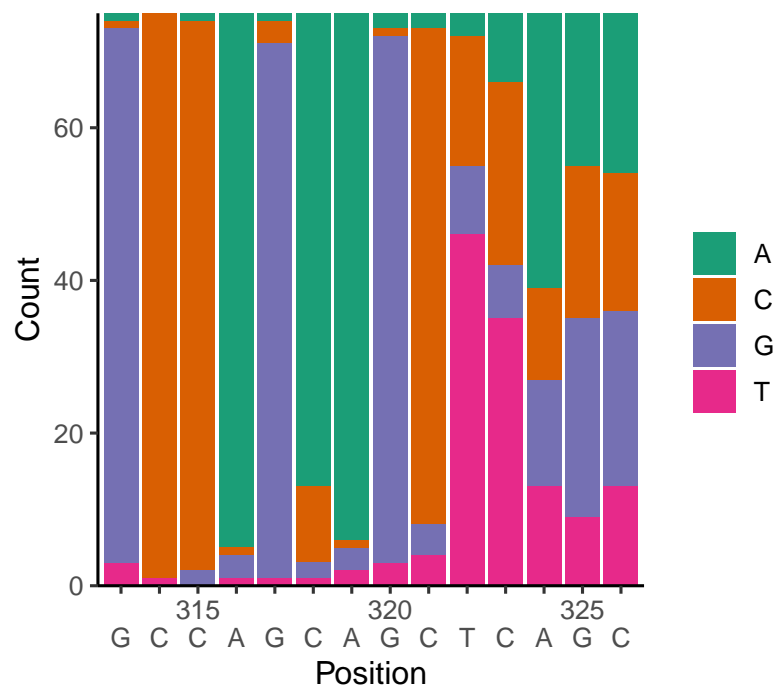


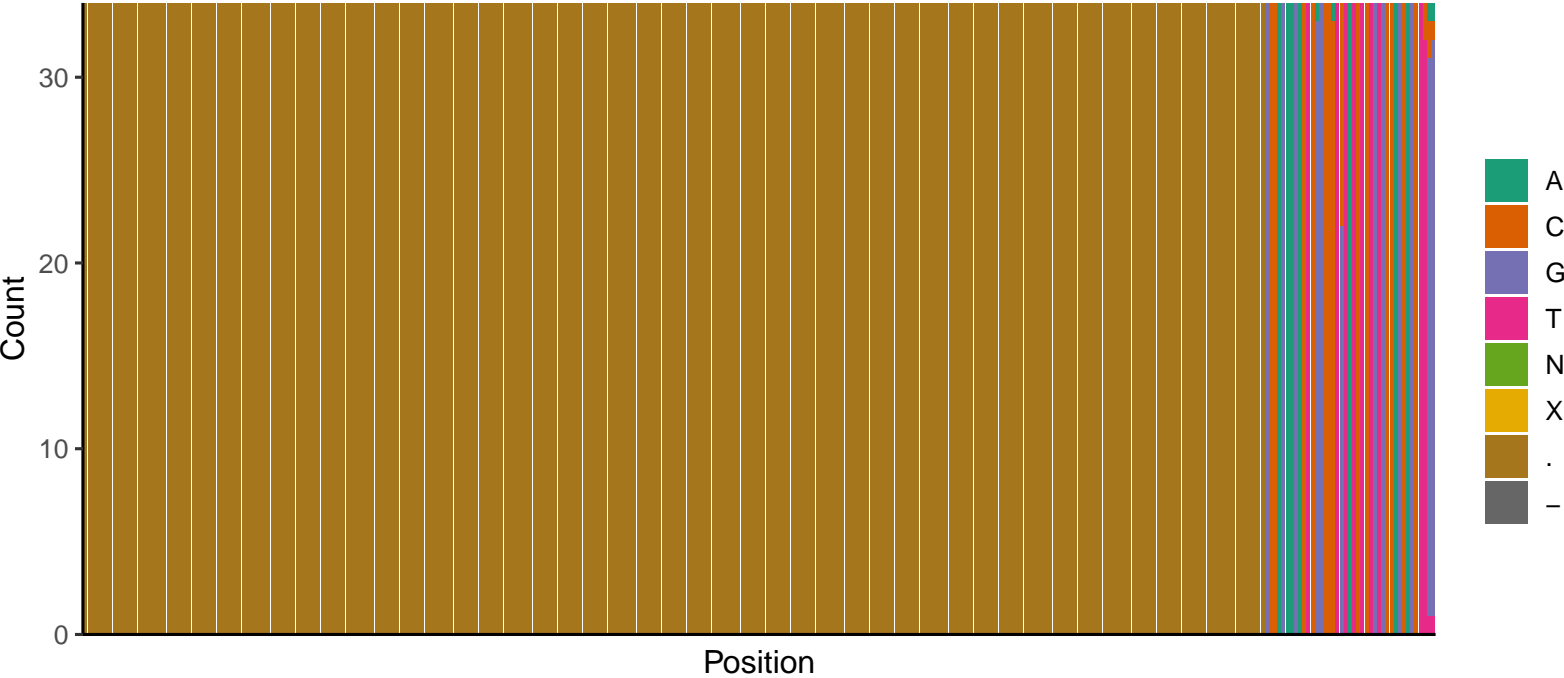
Gene TRBV5-7\*ap01\_G290A\_G291A



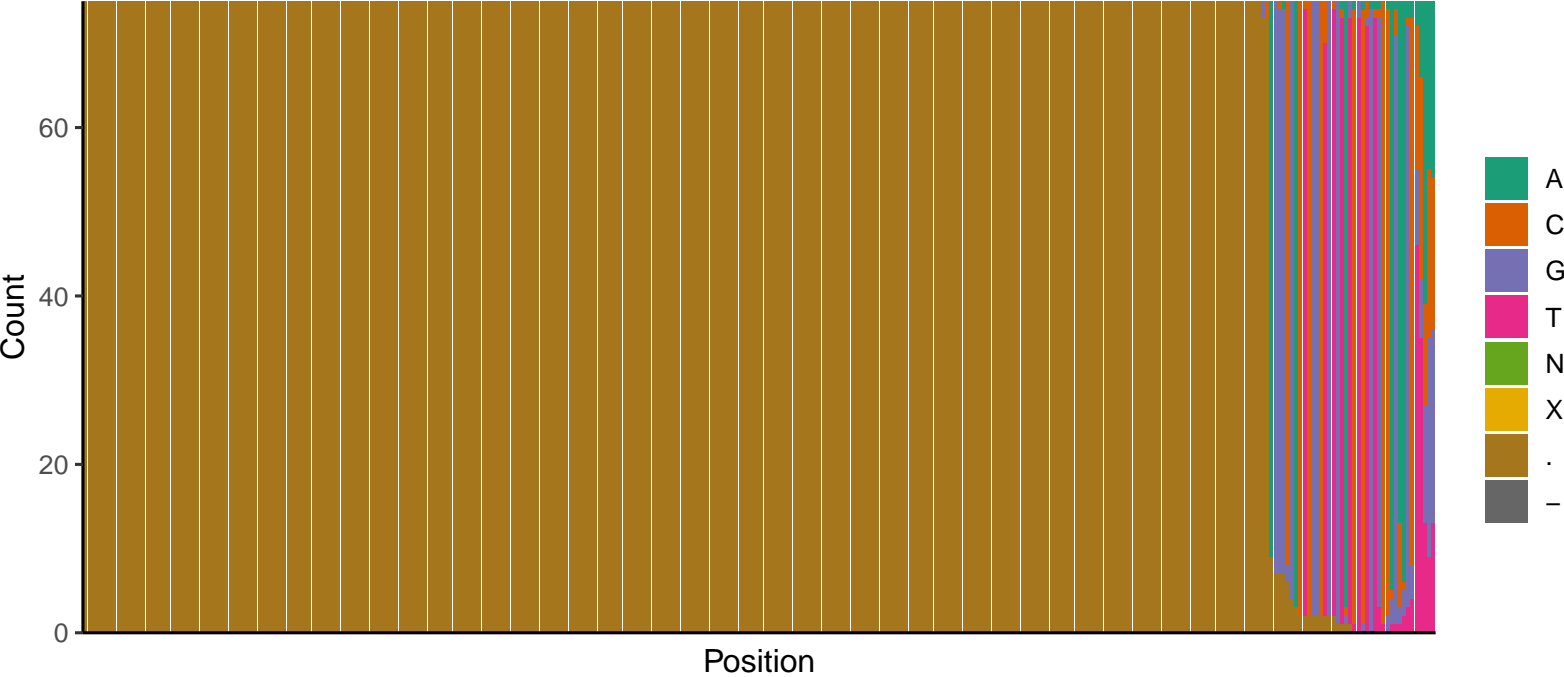
Gene TRBV7-1\*ap01\_G291C\_T296C



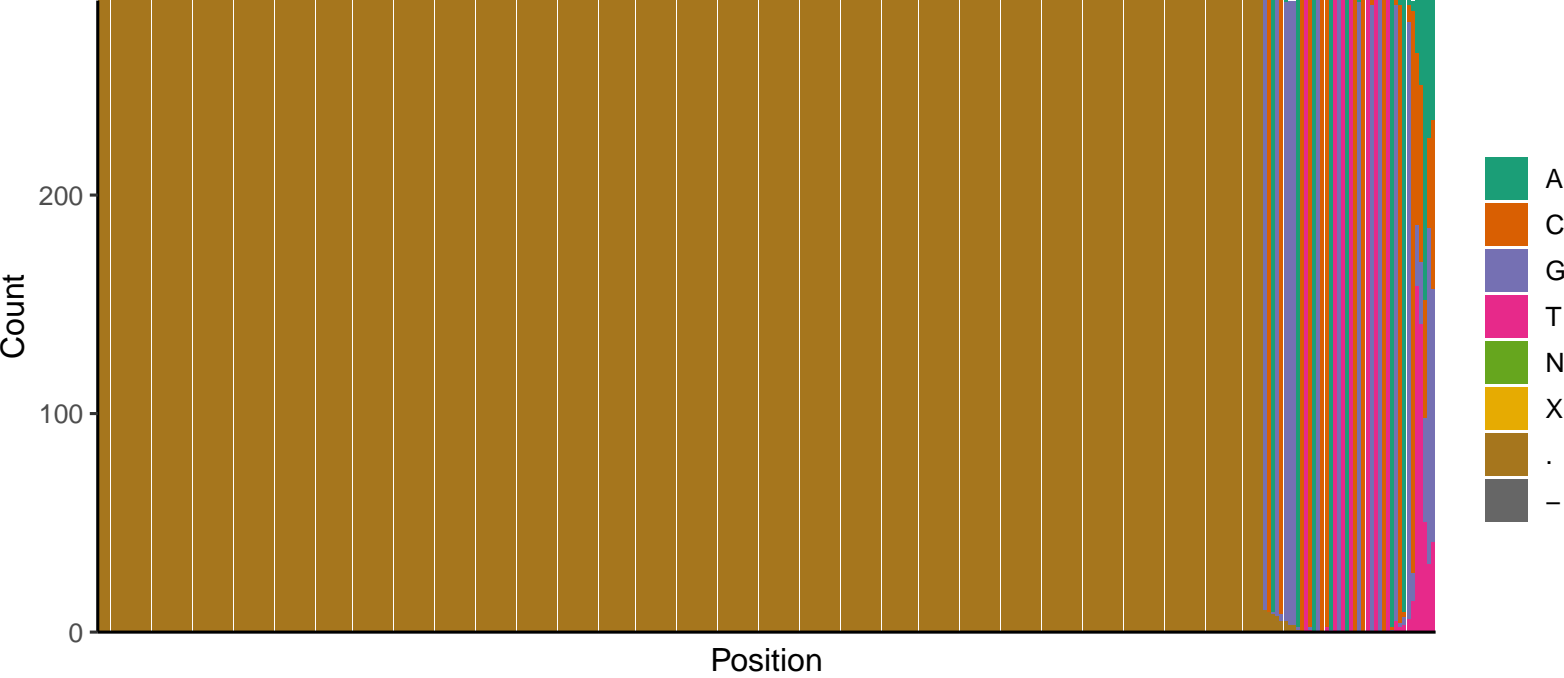
Gene TRBV5-7\*ap01\_G290A\_G291A



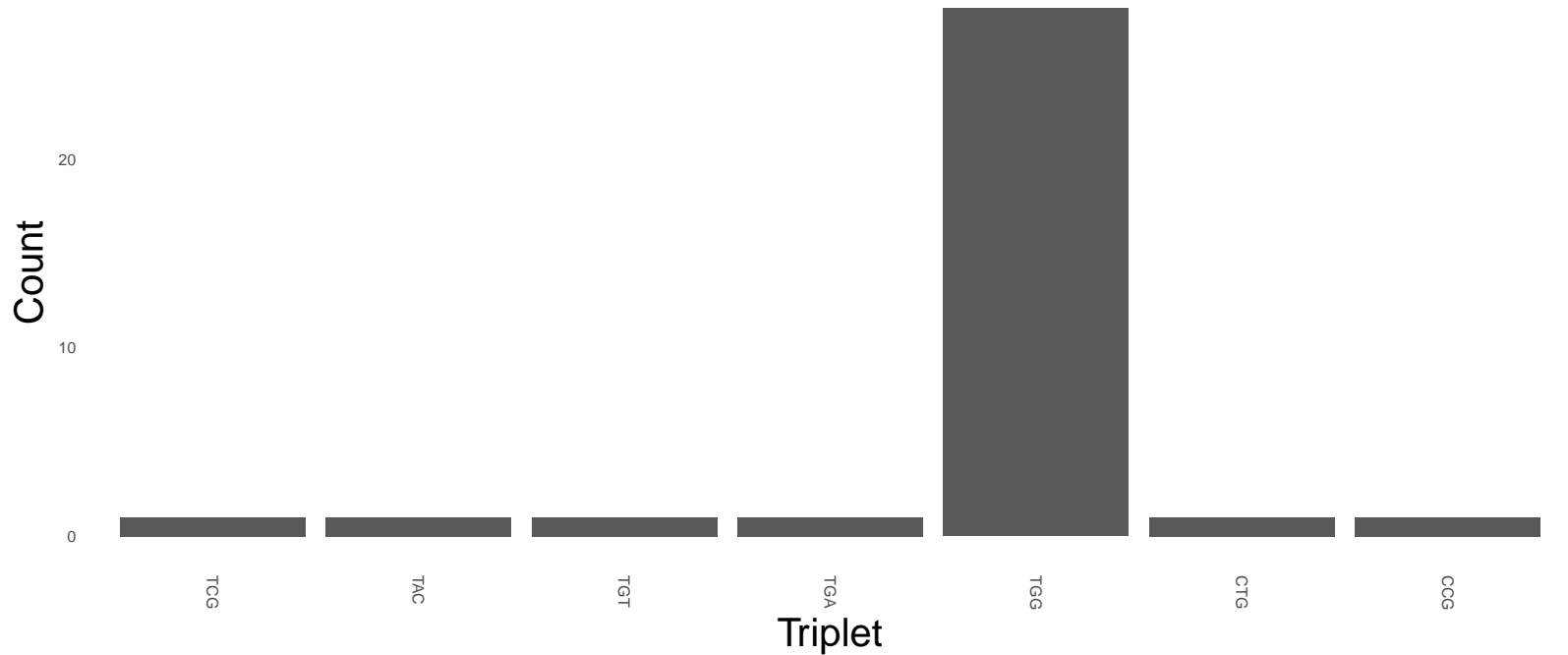
Gene TRBV7-1\*ap01\_G291C\_T296C



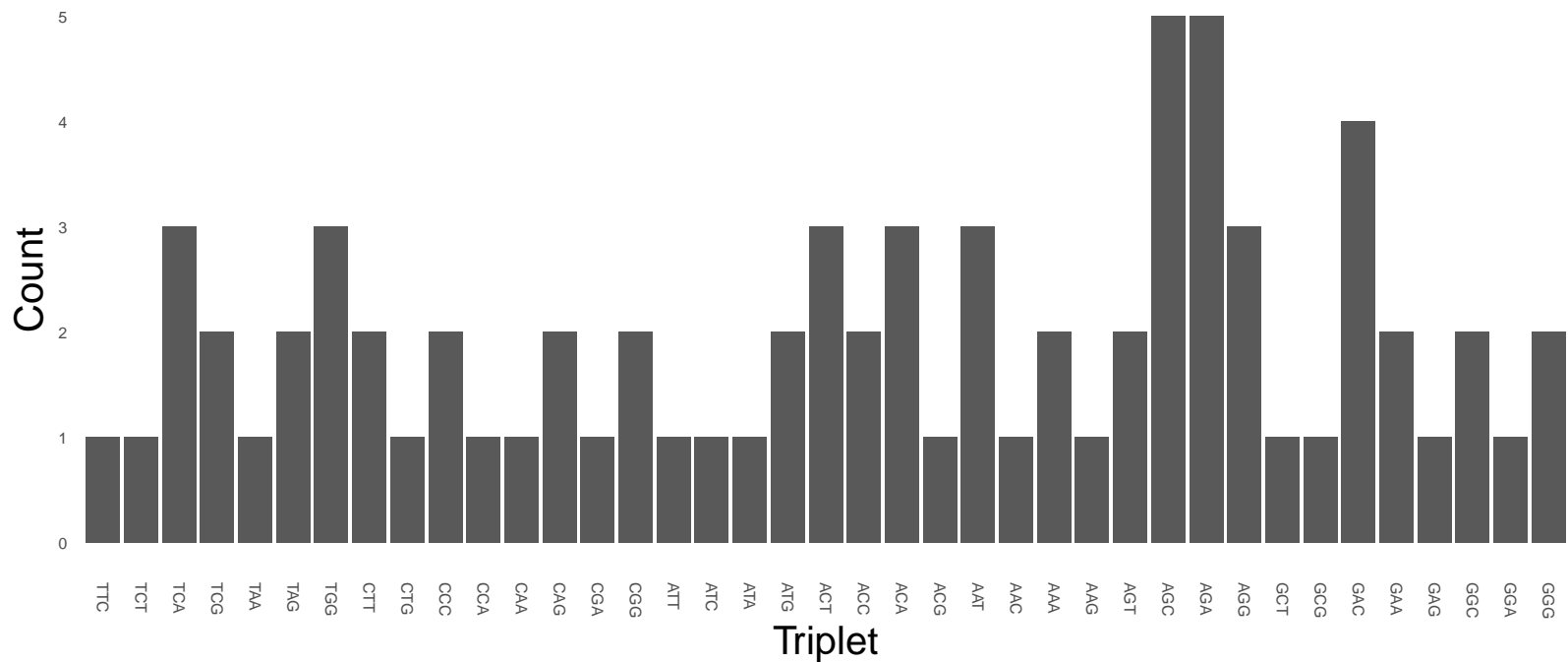
Gene TRBV7-7\*ap01\_C315T



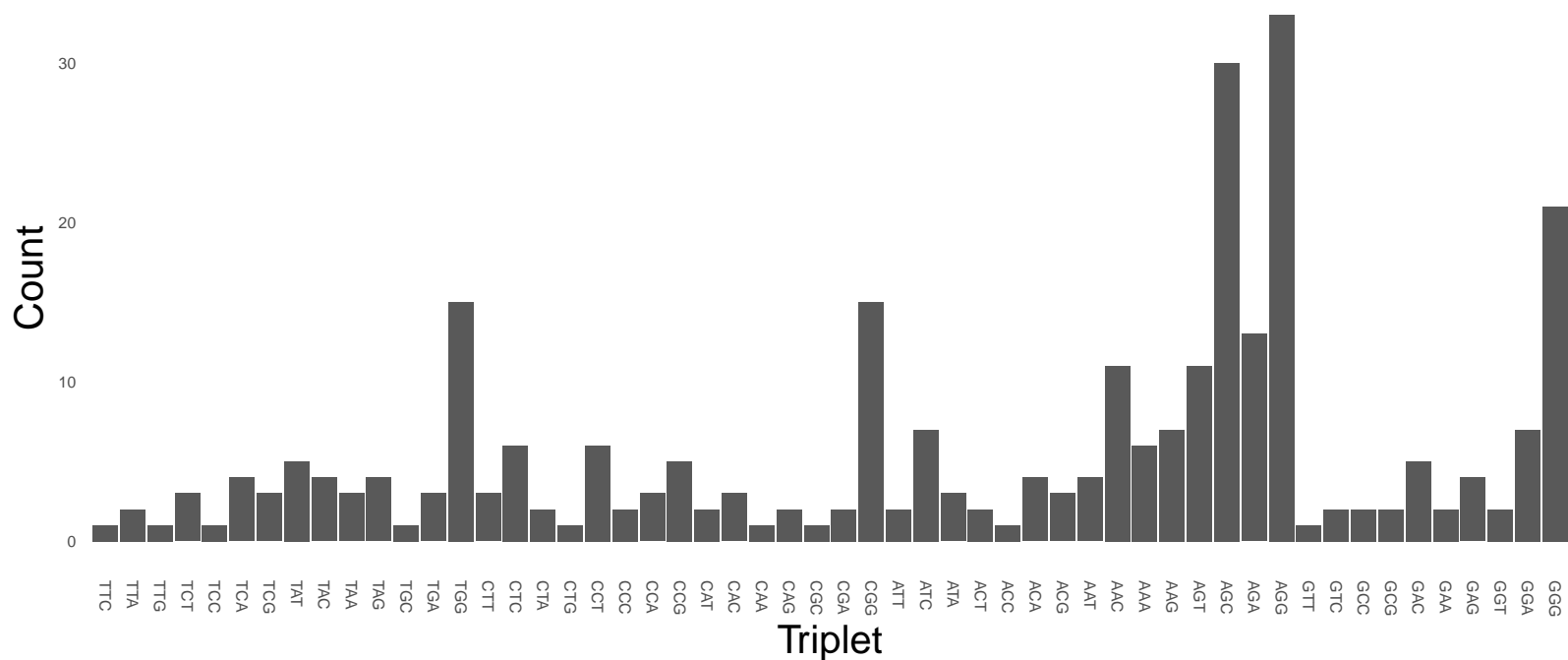
TRBV5-7\*ap01\_G290A\_G291A- Final 3 nucleotides as a triplet



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

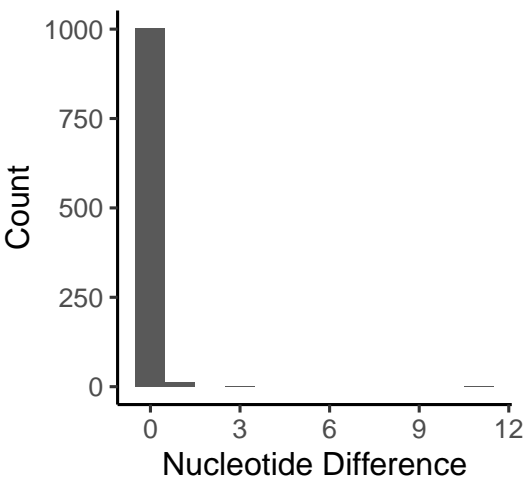


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



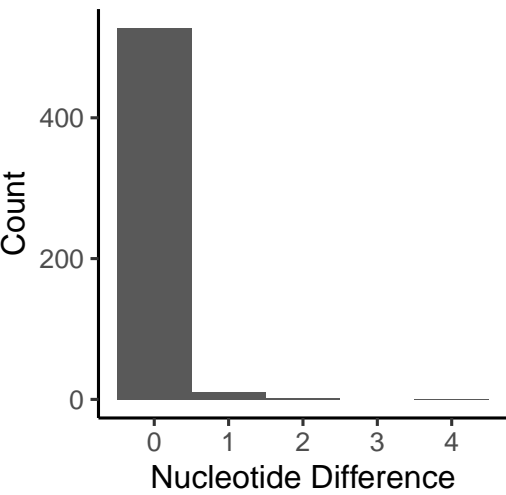
TRBV10-1\*ap01

1017 sequences assigned  
1002 (98.5%) exact matches, in which:  
975 unique CDR3  
13 unique J



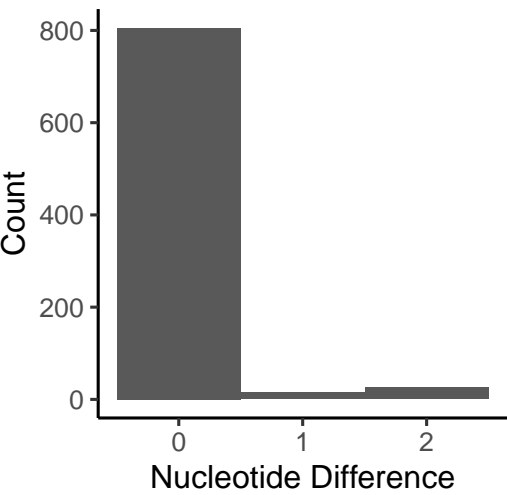
TRBV10-2\*ap01

542 sequences assigned  
528 (97.4%) exact matches, in which:  
515 unique CDR3  
13 unique J



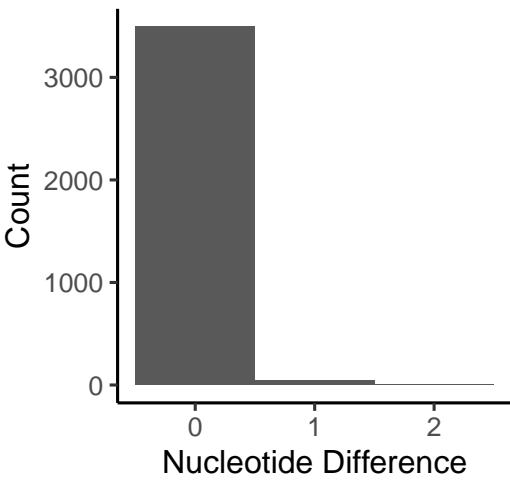
TRBV13\*ap01

847 sequences assigned  
806 (95.2%) exact matches, in which:  
786 unique CDR3  
13 unique J



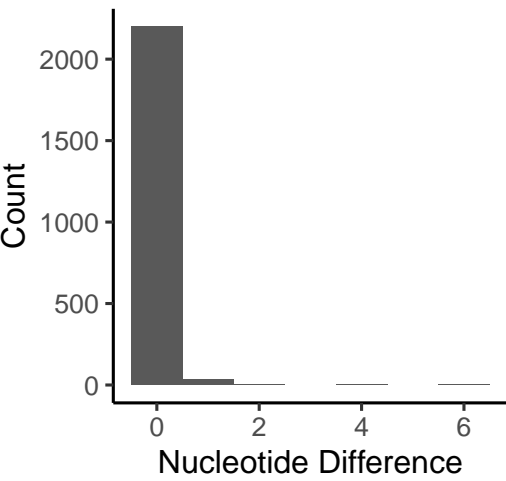
TRBV20-1\*ap01

3544 sequences assigned  
3494 (98.6%) exact matches, in which:  
3443 unique CDR3  
13 unique J



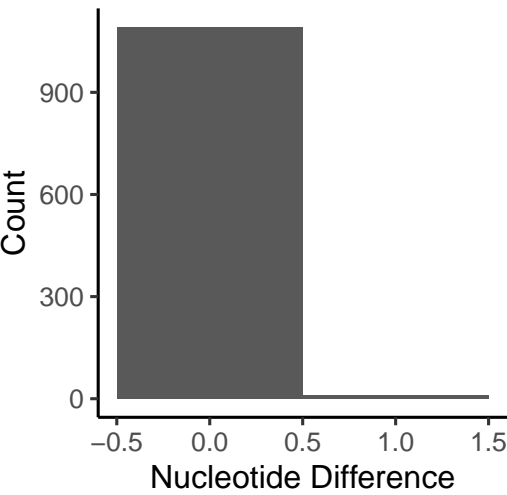
TRBV10-3\*ap01

2238 sequences assigned  
2199 (98.3%) exact matches, in which:  
2163 unique CDR3  
13 unique J



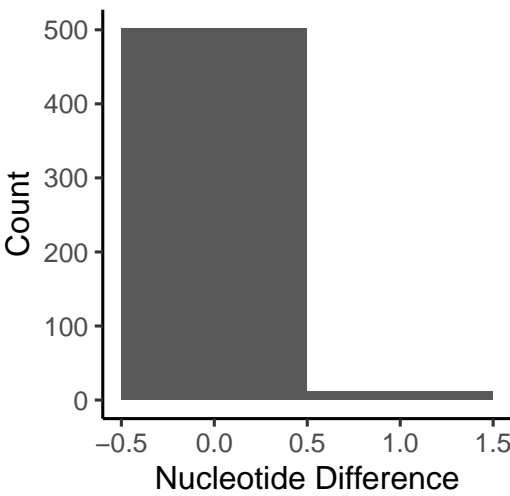
TRBV14\*ap01

1102 sequences assigned  
1092 (99.1%) exact matches, in which:  
1072 unique CDR3  
13 unique J



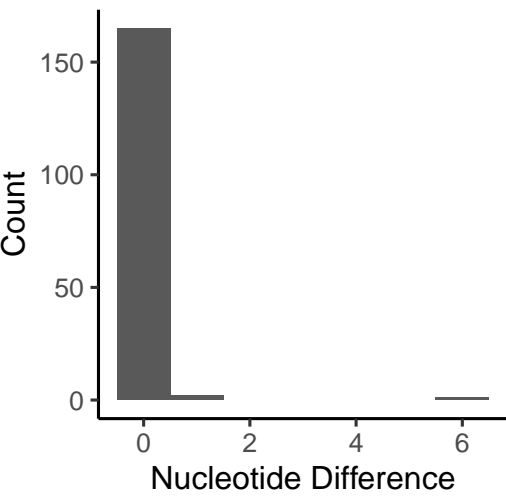
TRBV20-1\*ap02

513 sequences assigned  
502 (97.9%) exact matches, in which:  
495 unique CDR3  
13 unique J



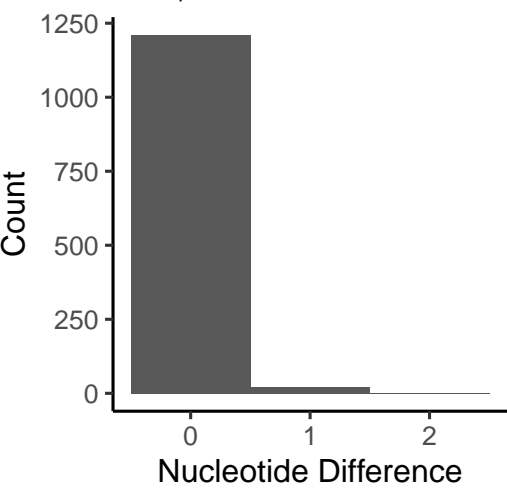
TRBV1\*ap01

168 sequences assigned  
165 (98.2%) exact matches, in which:  
164 unique CDR3  
13 unique J



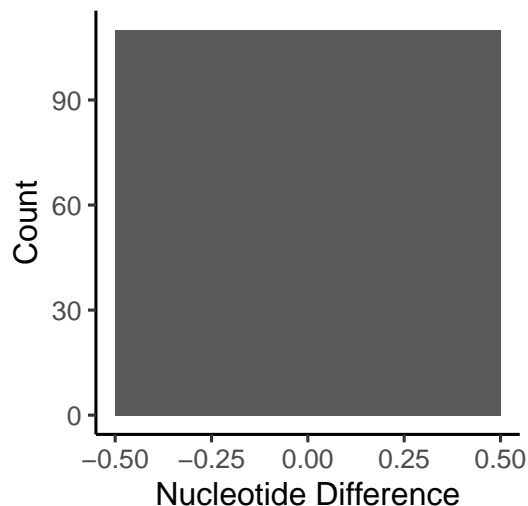
TRBV15\*ap02

1232 sequences assigned  
1210 (98.2%) exact matches, in which:  
1182 unique CDR3  
13 unique J



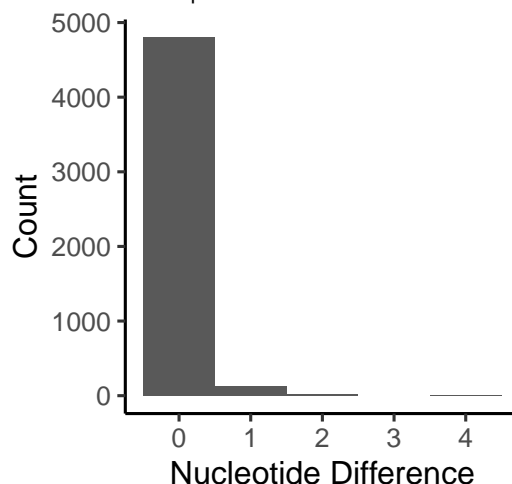
### TRBV16\*ap01

110 sequences assigned  
110 (100%) exact matches, in which:  
110 unique CDR3  
12 unique J



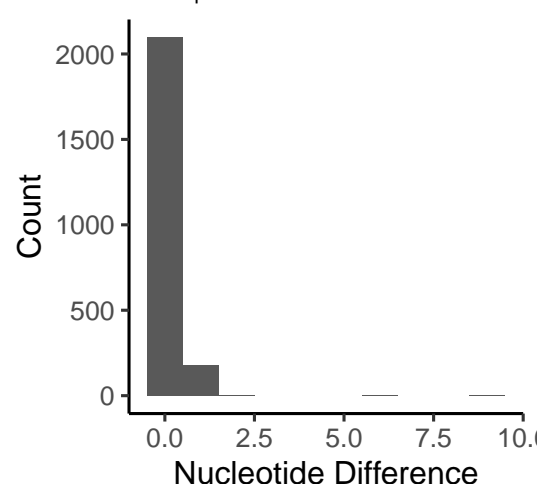
### TRBV2\*ap01

4949 sequences assigned  
4801 (97%) exact matches, in which:  
4728 unique CDR3  
13 unique J



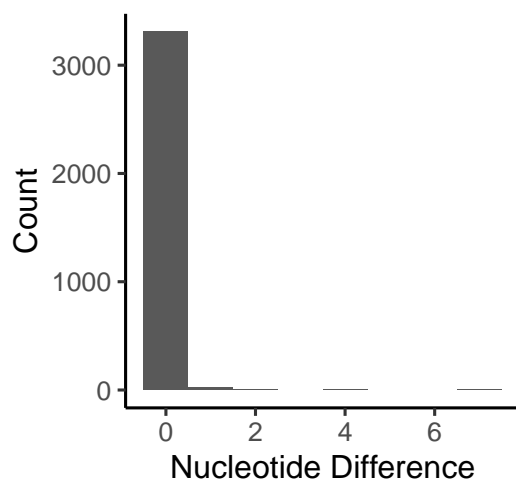
### TRBV30\*ap01

2284 sequences assigned  
2097 (91.8%) exact matches, in which:  
2070 unique CDR3  
13 unique J



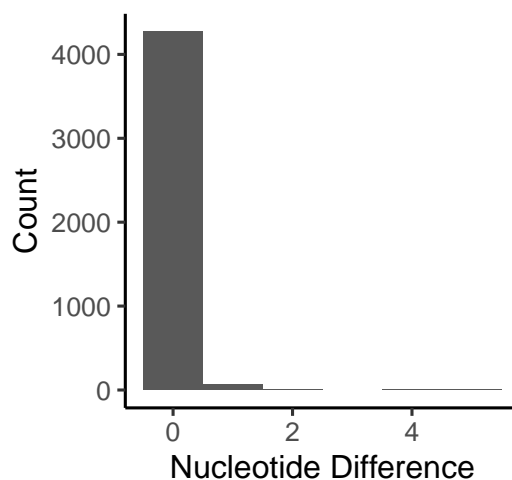
### TRBV18\*ap01

3338 sequences assigned  
3309 (99.1%) exact matches, in which:  
3274 unique CDR3  
13 unique J



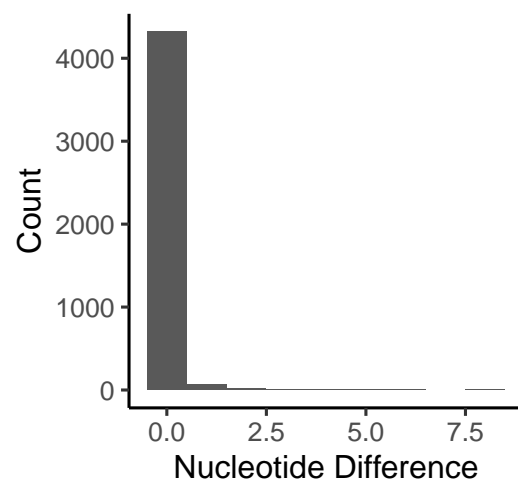
### TRBV27\*ap01

4347 sequences assigned  
4270 (98.2%) exact matches, in which:  
4192 unique CDR3  
13 unique J



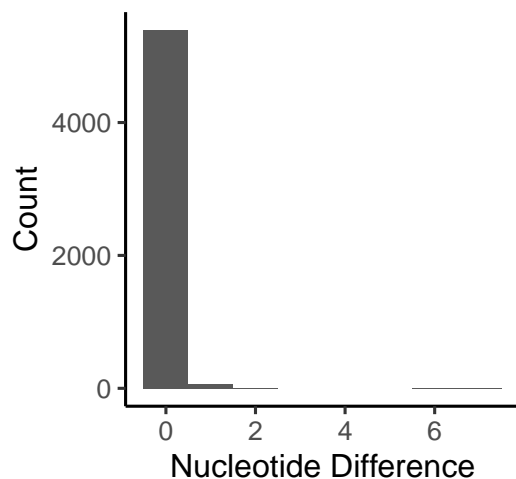
### TRBV9\*ap01

4410 sequences assigned  
4320 (98%) exact matches, in which:  
4235 unique CDR3  
13 unique J



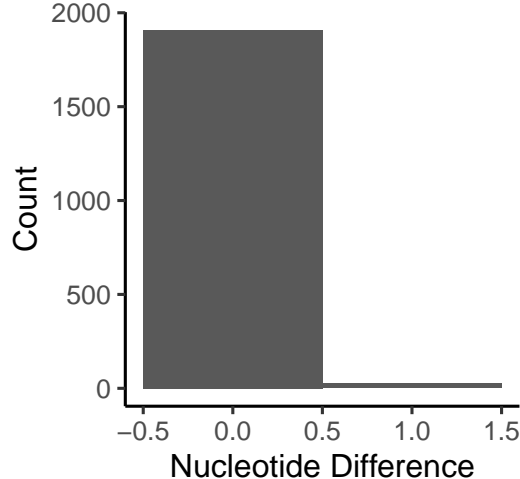
### TRBV19\*ap01

5471 sequences assigned  
5392 (98.6%) exact matches, in which:  
5341 unique CDR3  
13 unique J



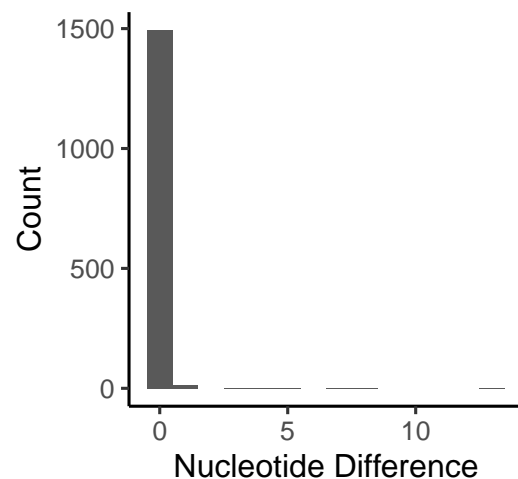
### TRBV28\*ap01

1933 sequences assigned  
1908 (98.7%) exact matches, in which:  
1867 unique CDR3  
13 unique J



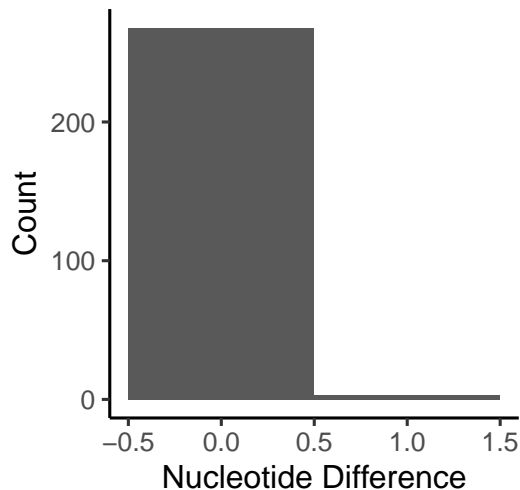
### TRBV21-1\*ap01

1517 sequences assigned  
1494 (98.5%) exact matches, in which:  
1470 unique CDR3  
13 unique J



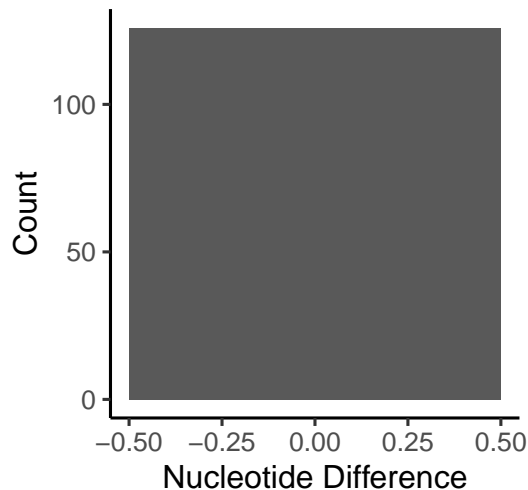
### TRBV11-1\*ap01

271 sequences assigned  
268 (98.9%) exact matches, in which:  
264 unique CDR3  
13 unique J



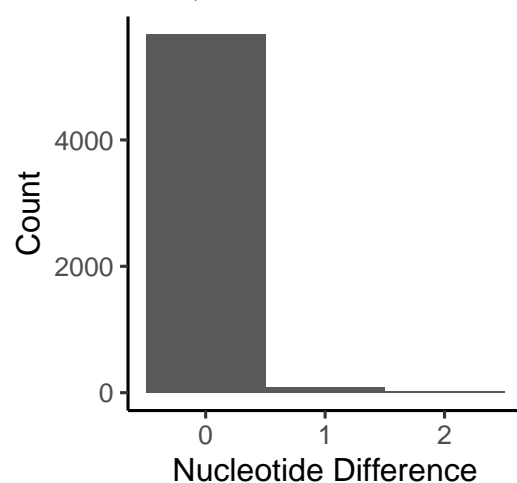
### TRBV12-1\*ap01

126 sequences assigned  
126 (100%) exact matches, in which:  
125 unique CDR3  
13 unique J



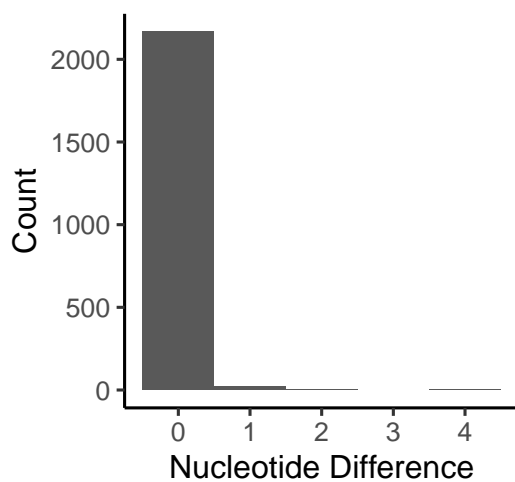
### TRBV12-34\*ap01

5780 sequences assigned  
5670 (98.1%) exact matches, in which:  
5576 unique CDR3  
13 unique J



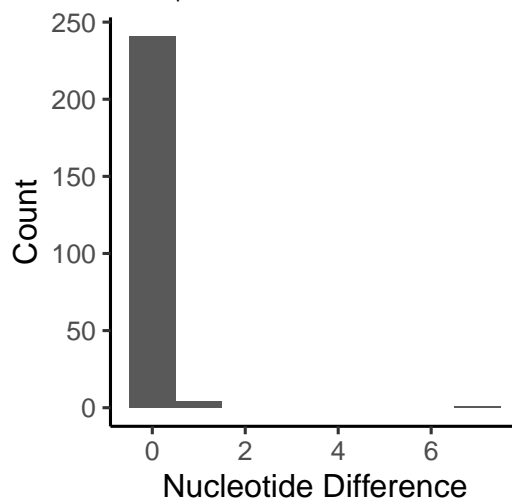
### TRBV11-2\*ap01

2192 sequences assigned  
2167 (98.9%) exact matches, in which:  
2130 unique CDR3  
13 unique J



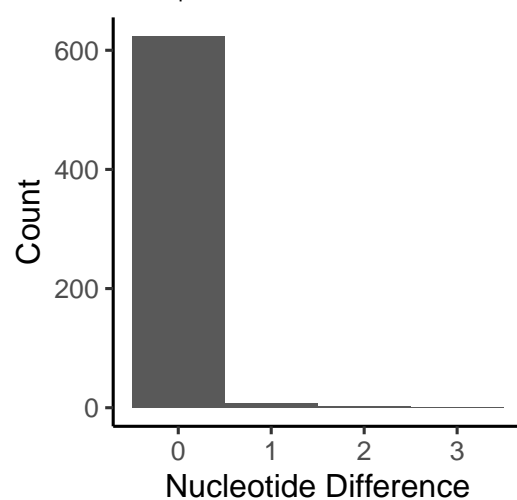
### TRBV12-2\*ap01

246 sequences assigned  
241 (98%) exact matches, in which:  
239 unique CDR3  
13 unique J



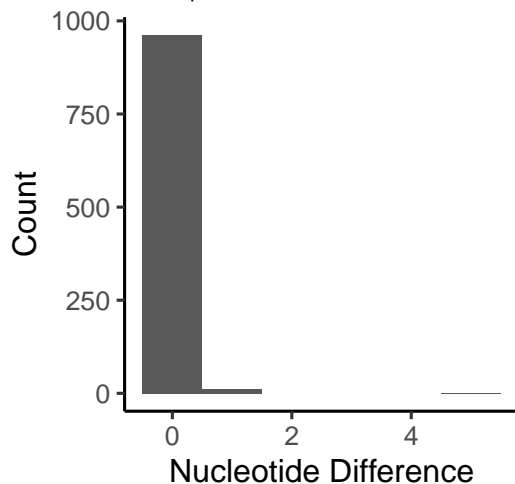
### TRBV23-1\*ap01

635 sequences assigned  
624 (98.3%) exact matches, in which:  
616 unique CDR3  
13 unique J



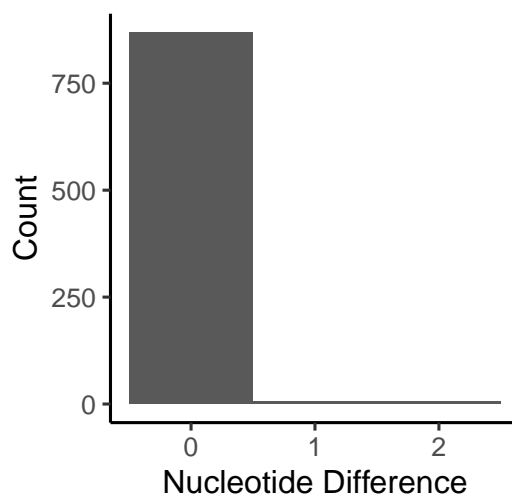
### TRBV11-3\*ap01

974 sequences assigned  
962 (98.8%) exact matches, in which:  
948 unique CDR3  
13 unique J



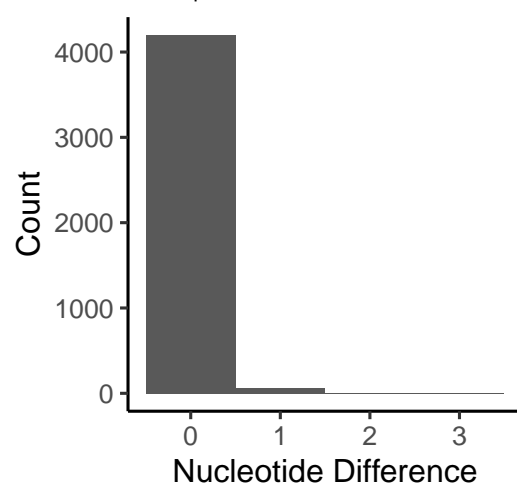
### TRBV12-5\*ap01

882 sequences assigned  
869 (98.5%) exact matches, in which:  
860 unique CDR3  
13 unique J



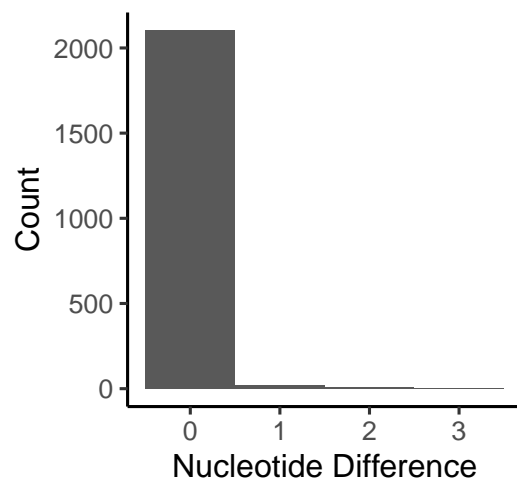
### TRBV3-12\*ap01

4269 sequences assigned  
4199 (98.4%) exact matches, in which:  
4127 unique CDR3  
13 unique J



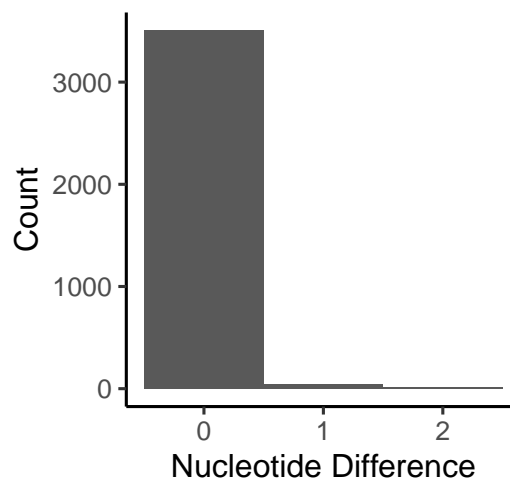
### TRBV4-1\*ap01

2130 sequences assigned  
2103 (98.7%) exact matches, in which:  
2071 unique CDR3  
13 unique J



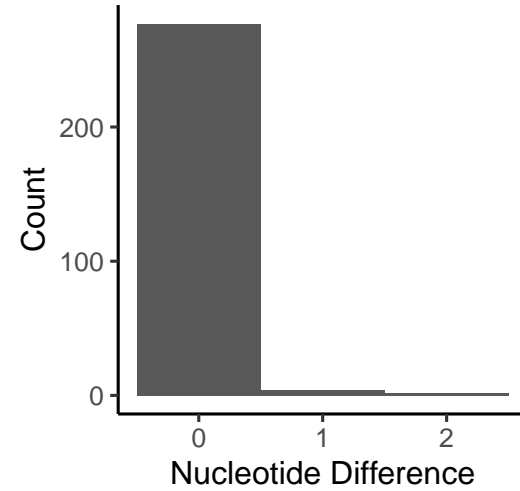
### TRBV4-3\*ap01

3567 sequences assigned  
3506 (98.3%) exact matches, in which:  
3445 unique CDR3  
13 unique J



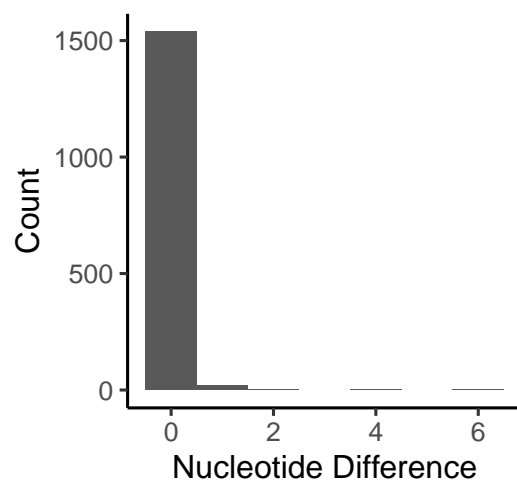
### TRBV5-3\*ap01

283 sequences assigned  
277 (97.9%) exact matches, in which:  
272 unique CDR3  
13 unique J



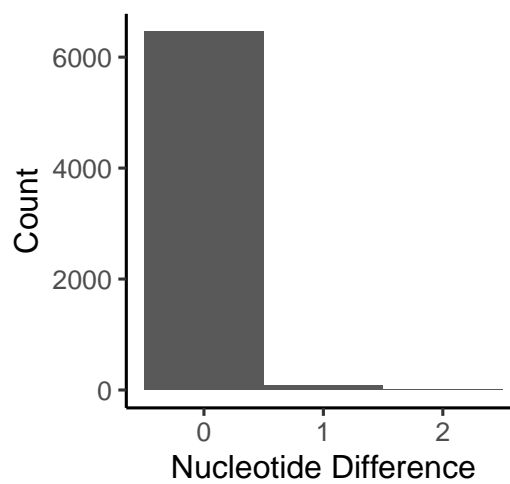
### TRBV24-1\*ap01

1562 sequences assigned  
1538 (98.5%) exact matches, in which:  
1522 unique CDR3  
13 unique J



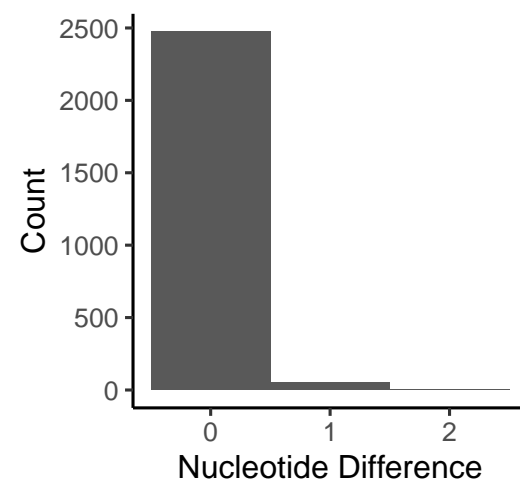
### TRBV5-1\*ap01

6549 sequences assigned  
6458 (98.6%) exact matches, in which:  
6305 unique CDR3  
13 unique J



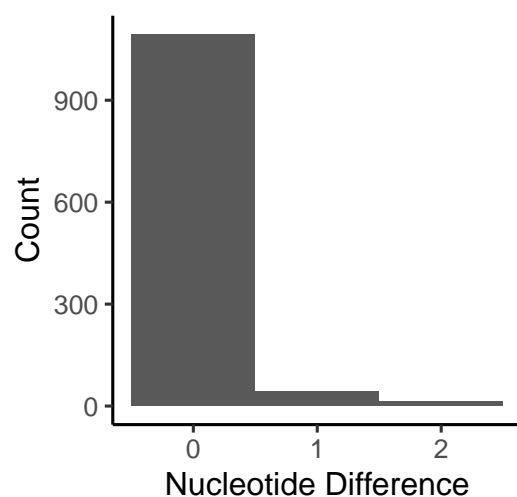
### TRBV5-4\*ap01

2531 sequences assigned  
2474 (97.7%) exact matches, in which:  
2427 unique CDR3  
13 unique J



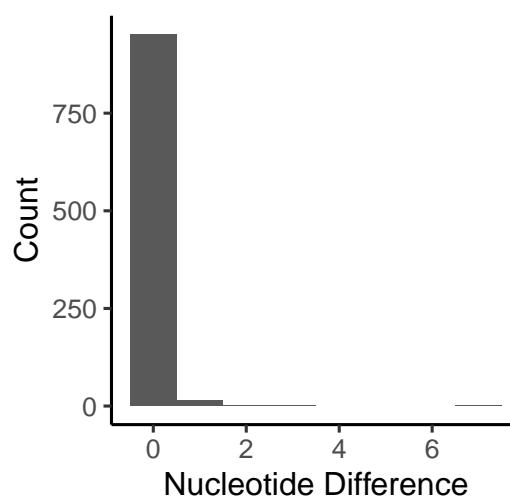
### TRBV4-2\*ap01

1150 sequences assigned  
1094 (95.1%) exact matches, in which:  
1066 unique CDR3  
13 unique J



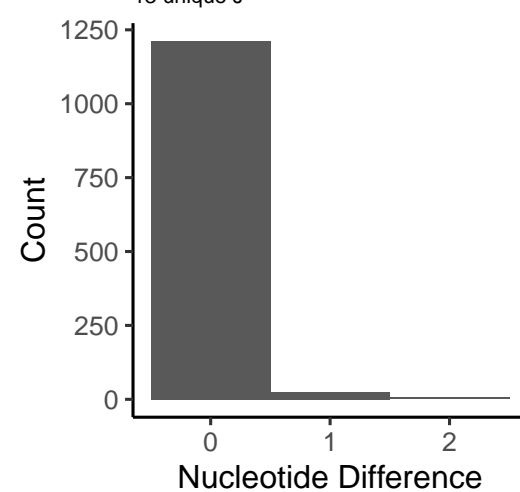
### TRBV25-1\*ap01

971 sequences assigned  
952 (98%) exact matches, in which:  
939 unique CDR3  
13 unique J



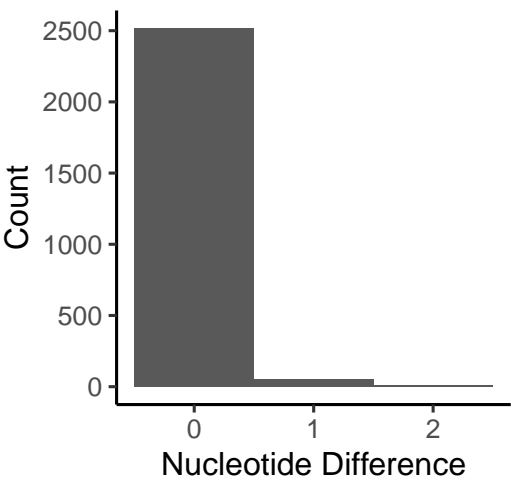
### TRBV5-5\*ap01

1243 sequences assigned  
1212 (97.5%) exact matches, in which:  
1191 unique CDR3  
13 unique J



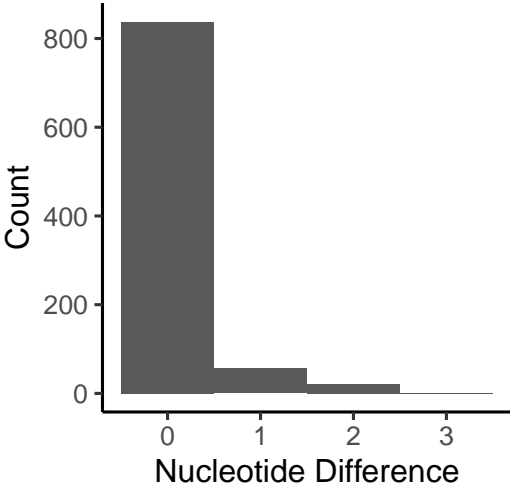
TRBV5-6\*ap01

2577 sequences assigned  
2516 (97.6%) exact matches, in which:  
2448 unique CDR3  
13 unique J



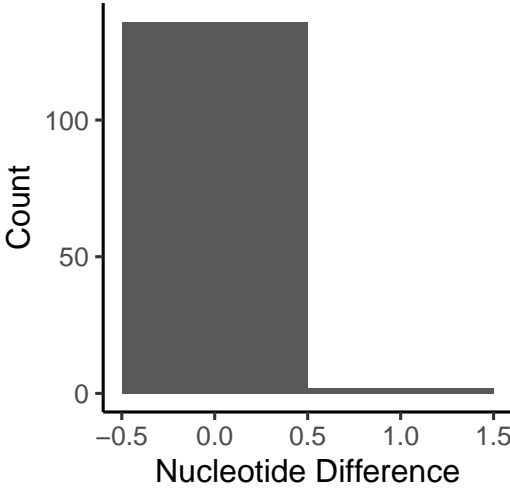
TRBV5-8\*ap01

916 sequences assigned  
838 (91.5%) exact matches, in which:  
824 unique CDR3  
13 unique J



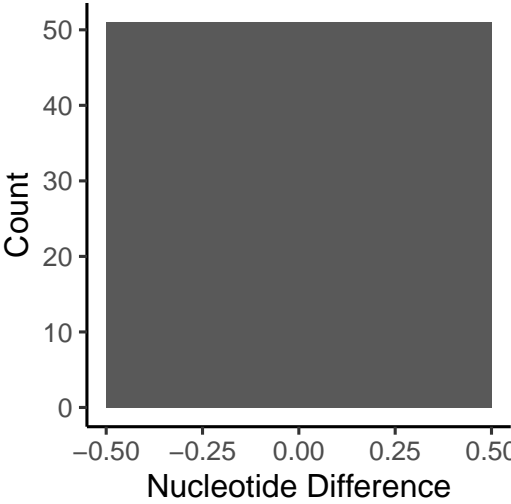
TRBV6-7\*ap01

138 sequences assigned  
136 (98.6%) exact matches, in which:  
134 unique CDR3  
13 unique J



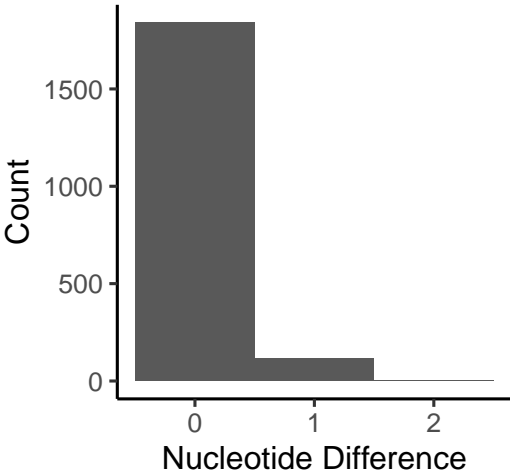
TRBV5-7\*ap01

51 sequences assigned  
51 (100%) exact matches, in which:  
50 unique CDR3  
11 unique J



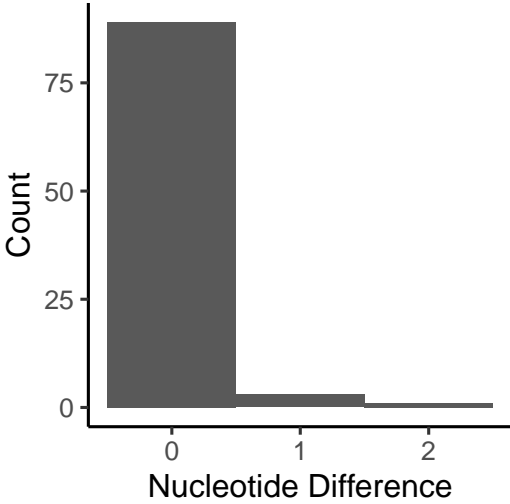
TRBV6-1\*ap01

1959 sequences assigned  
1840 (93.9%) exact matches, in which:  
1800 unique CDR3  
13 unique J



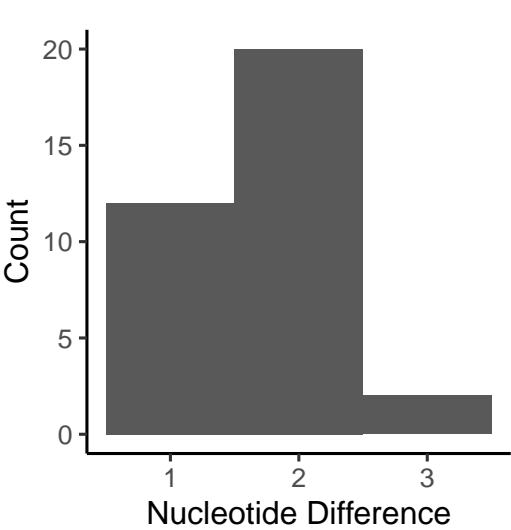
TRBV6-8\*ap01

93 sequences assigned  
89 (95.7%) exact matches, in which:  
85 unique CDR3  
12 unique J



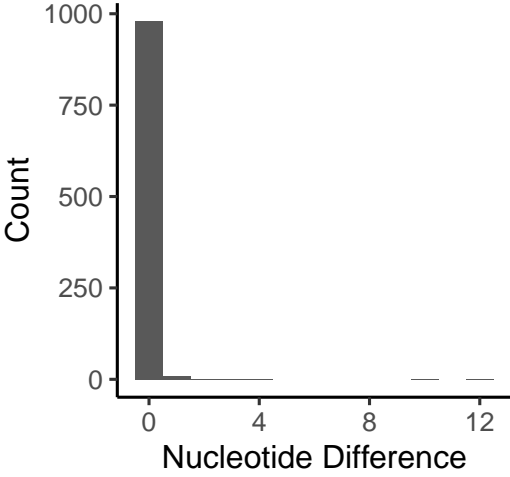
TRBV5-7\*ap01\_G290A\_G

34 sequences assigned  
No exact matches.



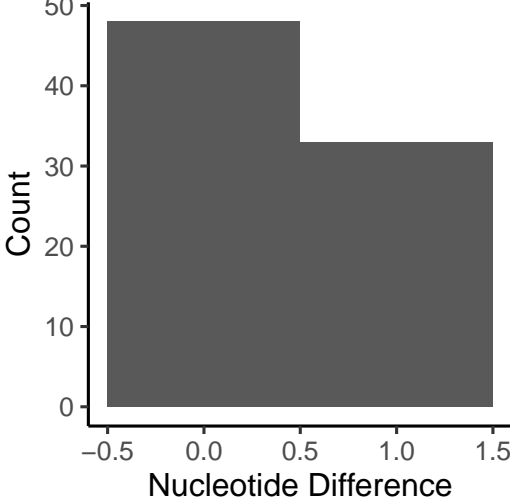
TRBV6-4\*ap01

994 sequences assigned  
980 (98.6%) exact matches, in which:  
966 unique CDR3  
13 unique J



TRBV6-9\*ap01

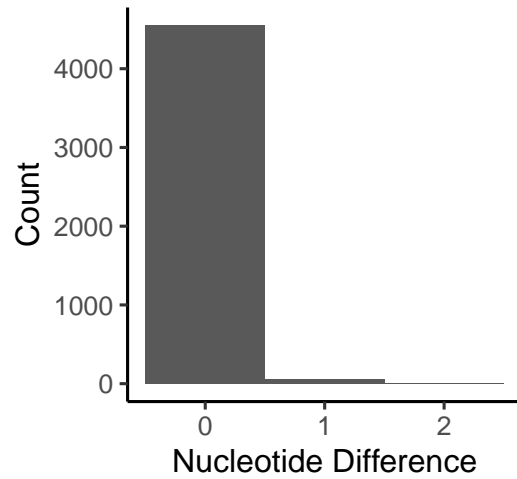
81 sequences assigned  
48 (59.3%) exact matches, in which:  
47 unique CDR3  
10 unique J





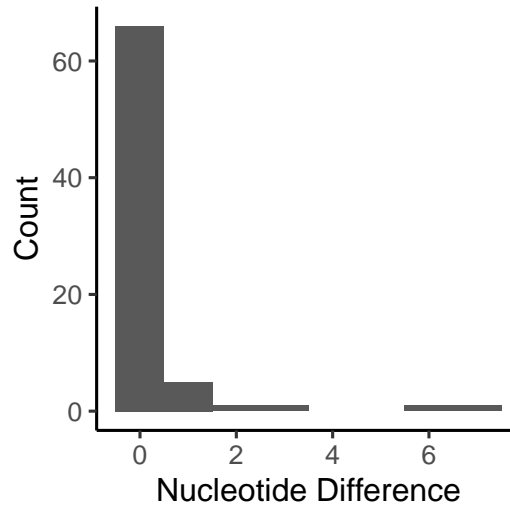
### TRBV6-23\*ap01

4604 sequences assigned  
4550 (98.8%) exact matches, in which:  
4460 unique CDR3  
13 unique J



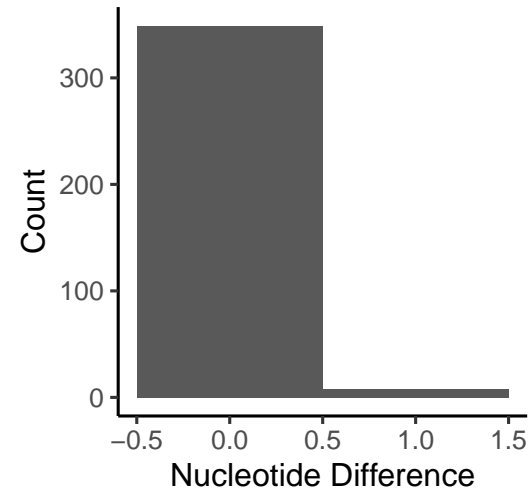
### TRBV7-1\*ap01\_G291C\_T

75 sequences assigned  
66 (88%) exact matches, in which:  
63 unique CDR3  
13 unique J



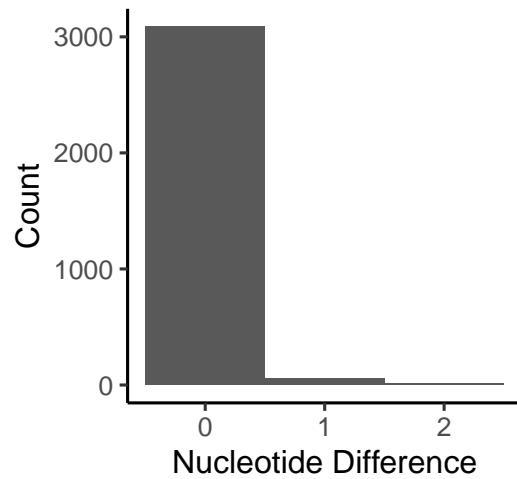
### TRBV7-3\*ap02

357 sequences assigned  
349 (97.8%) exact matches, in which:  
347 unique CDR3  
13 unique J



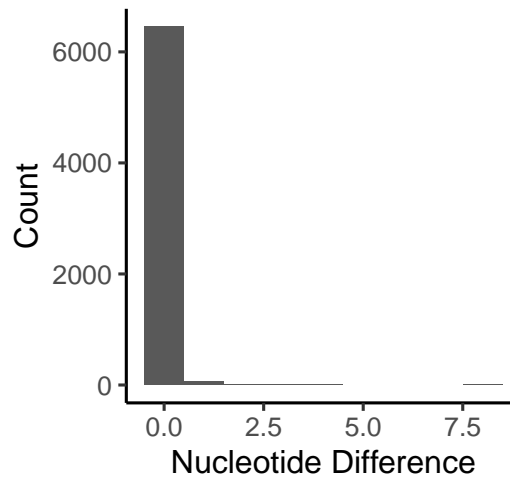
### TRBV6-56\*ap01

3152 sequences assigned  
3087 (97.9%) exact matches, in which:  
3021 unique CDR3  
13 unique J



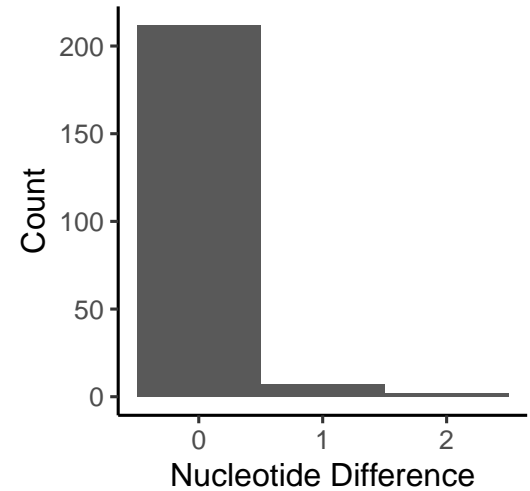
### TRBV7-2\*ap01

6521 sequences assigned  
6453 (99%) exact matches, in which:  
6337 unique CDR3  
13 unique J



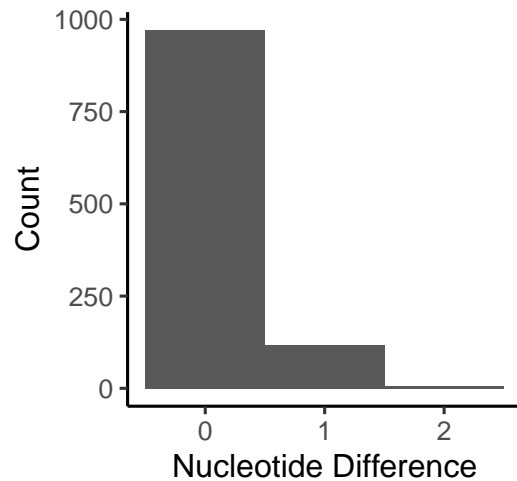
### TRBV7-4\*ap01

221 sequences assigned  
212 (95.9%) exact matches, in which:  
203 unique CDR3  
13 unique J



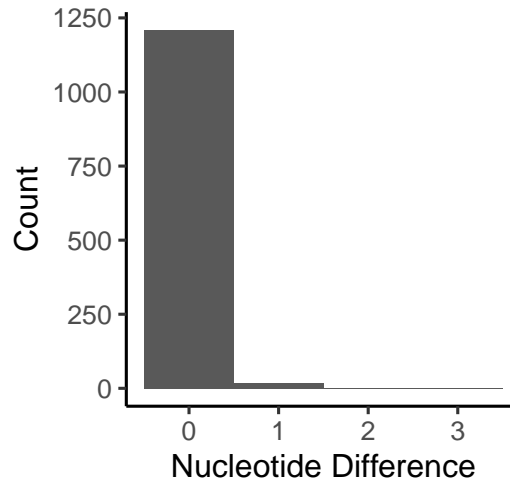
### TRBV6-56\*ap02

1095 sequences assigned  
971 (88.7%) exact matches, in which:  
957 unique CDR3  
13 unique J



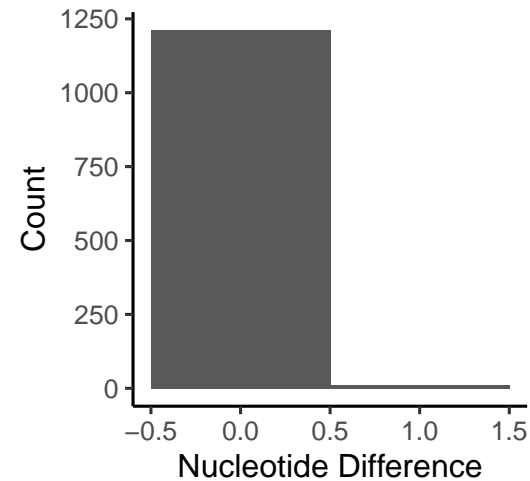
### TRBV7-3\*ap01

1229 sequences assigned  
1209 (98.4%) exact matches, in which:  
1182 unique CDR3  
13 unique J



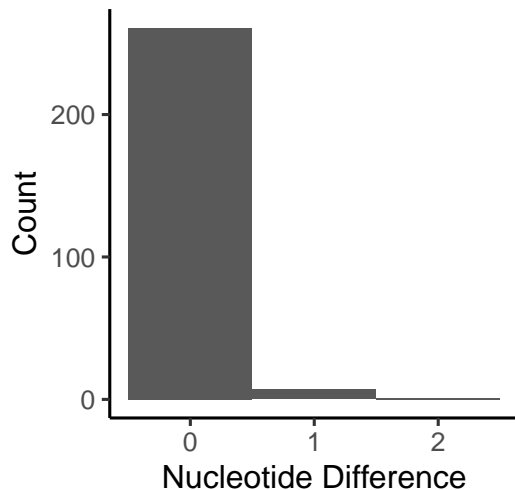
### TRBV7-6\*ap01

1224 sequences assigned  
1212 (99%) exact matches, in which:  
1193 unique CDR3  
13 unique J



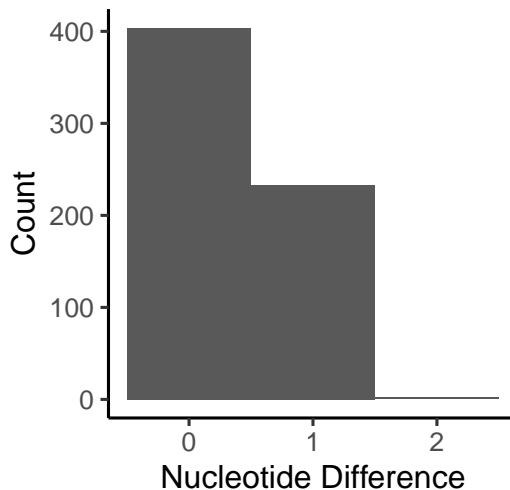
### TRBV7-7\*ap01

269 sequences assigned  
261 (97%) exact matches, in which:  
255 unique CDR3  
13 unique J



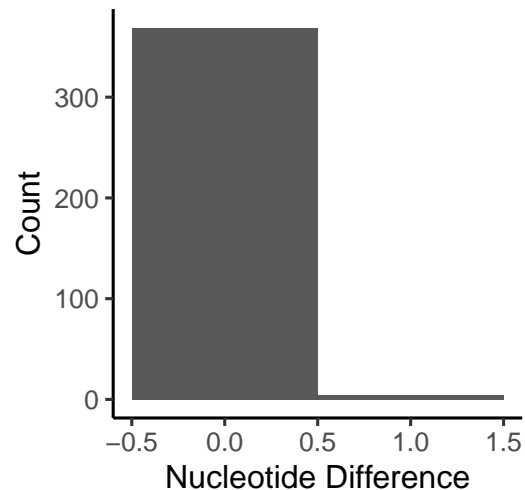
### TRBV7-8\*ap03

639 sequences assigned  
404 (63.2%) exact matches, in which:  
396 unique CDR3  
13 unique J



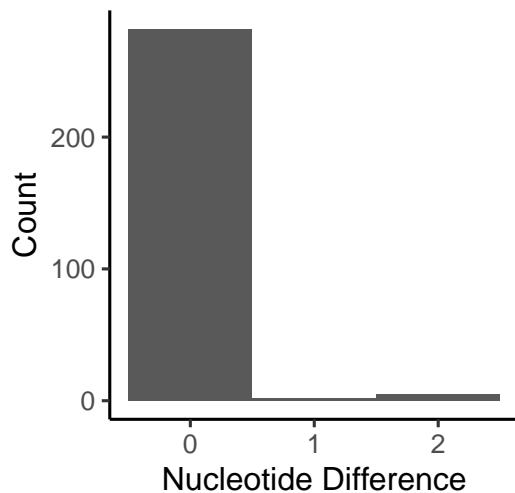
### TRBV29-1\*ap02

373 sequences assigned  
369 (98.9%) exact matches, in which:  
367 unique CDR3  
13 unique J



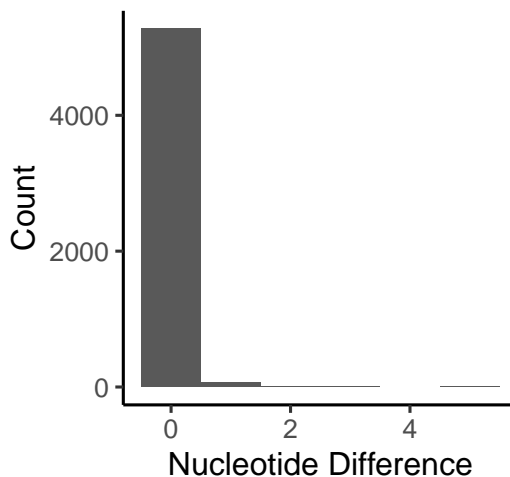
### TRBV7-7\*ap01\_C315T

289 sequences assigned  
282 (97.6%) exact matches, in which:  
280 unique CDR3  
13 unique J



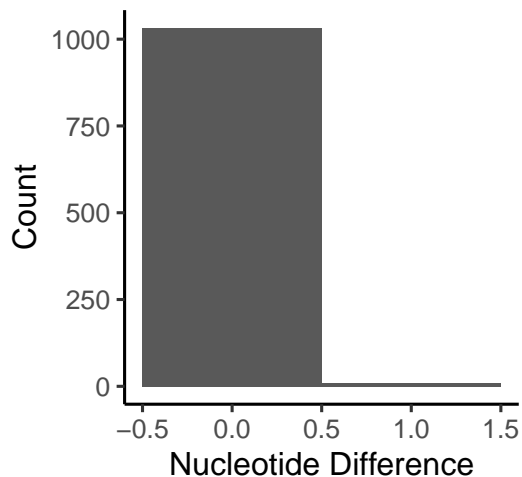
### TRBV7-9\*ap01

5343 sequences assigned  
5275 (98.7%) exact matches, in which:  
5217 unique CDR3  
13 unique J



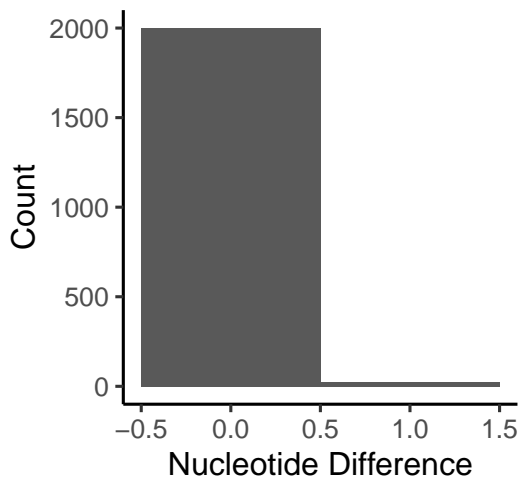
### TRBV7-8\*ap01

1041 sequences assigned  
1032 (99.1%) exact matches, in which:  
1014 unique CDR3  
13 unique J

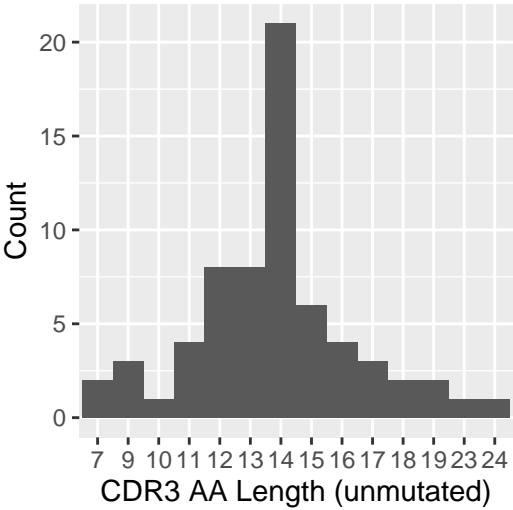


### TRBV29-1\*ap01

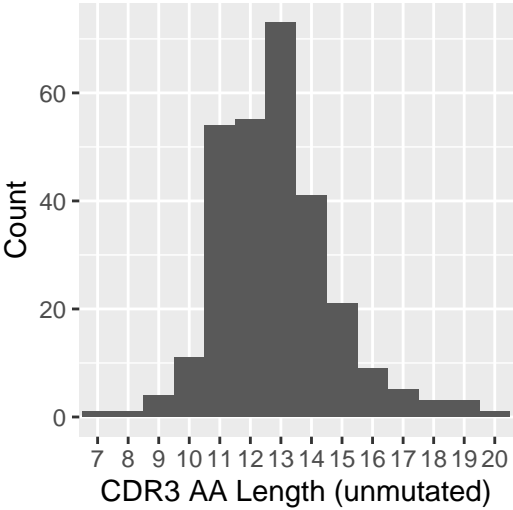
2025 sequences assigned  
2000 (98.8%) exact matches, in which:  
1971 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]