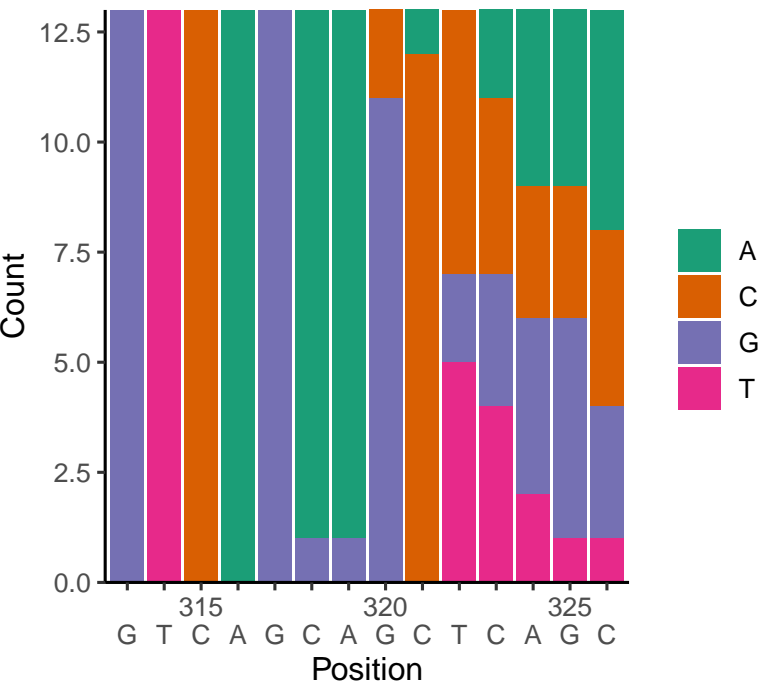
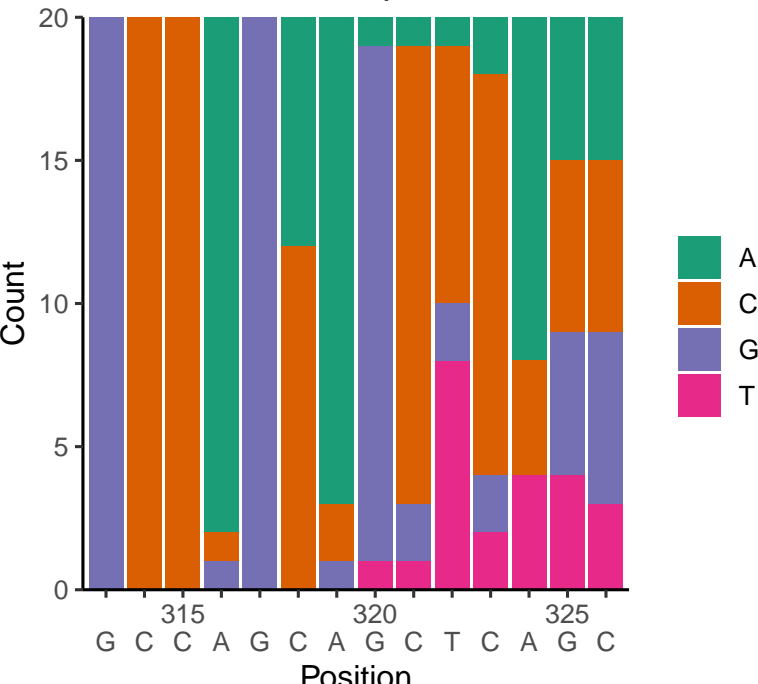


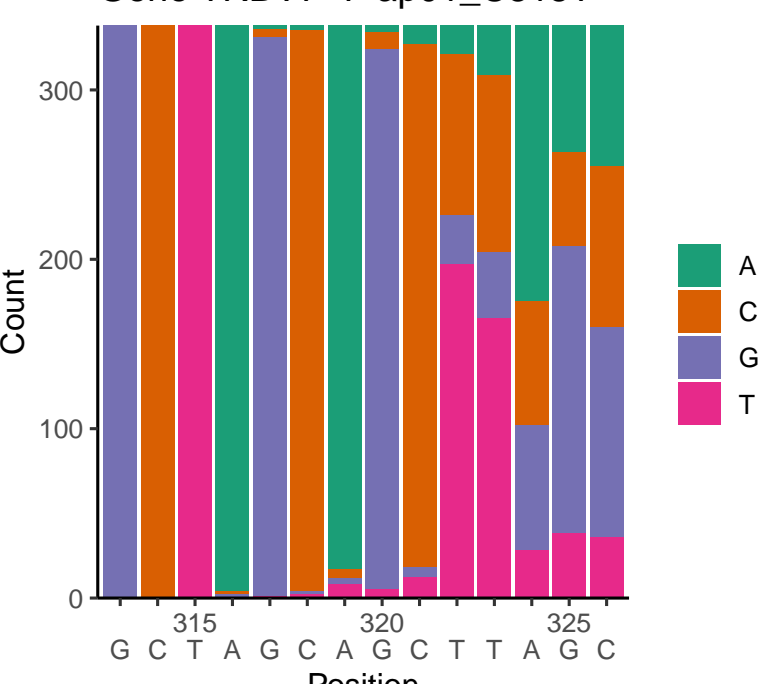
Gene TRBV7-1\*ap01\_T296C\_C314T



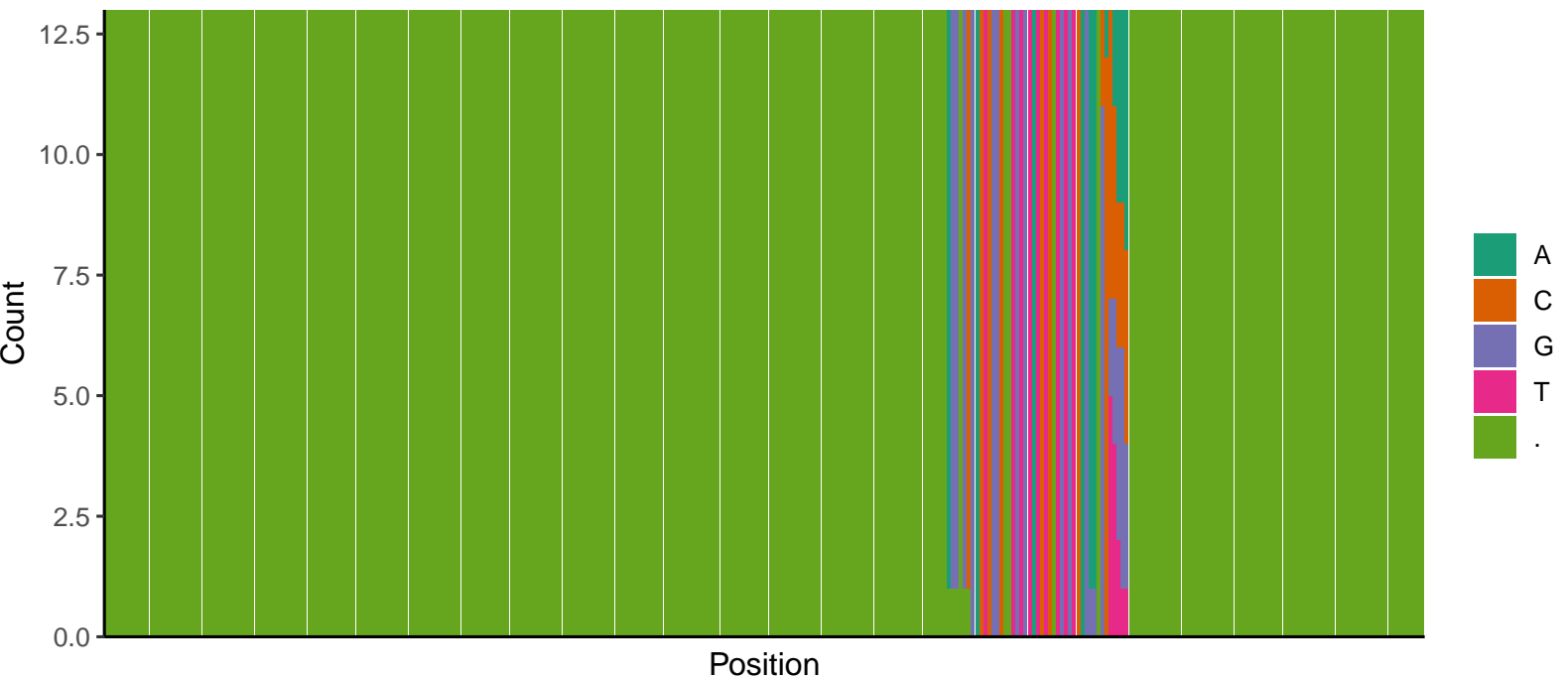
Gene TRBV7-1\*ap01\_T296C



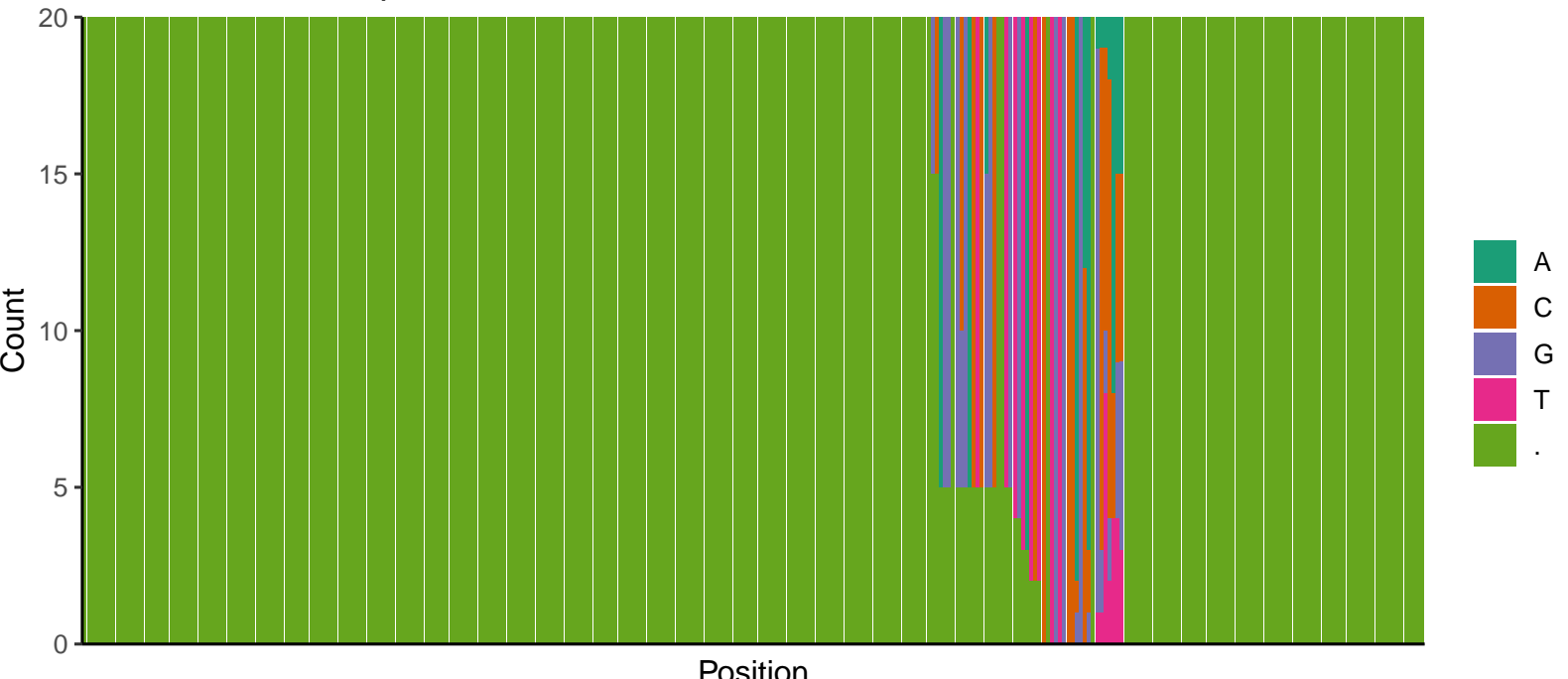
Gene TRBV7-7\*ap01\_C315T



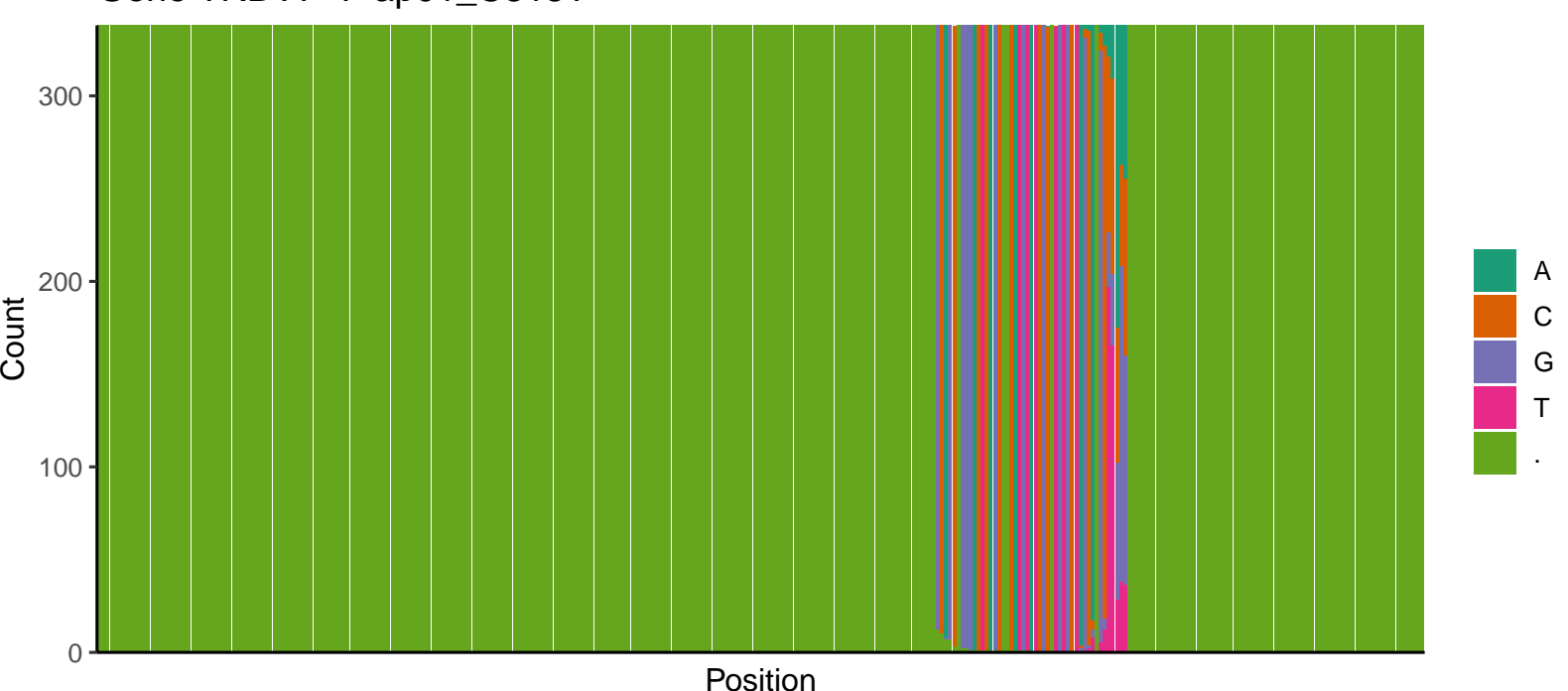
Gene TRBV7-1\*ap01\_T296C\_C314T



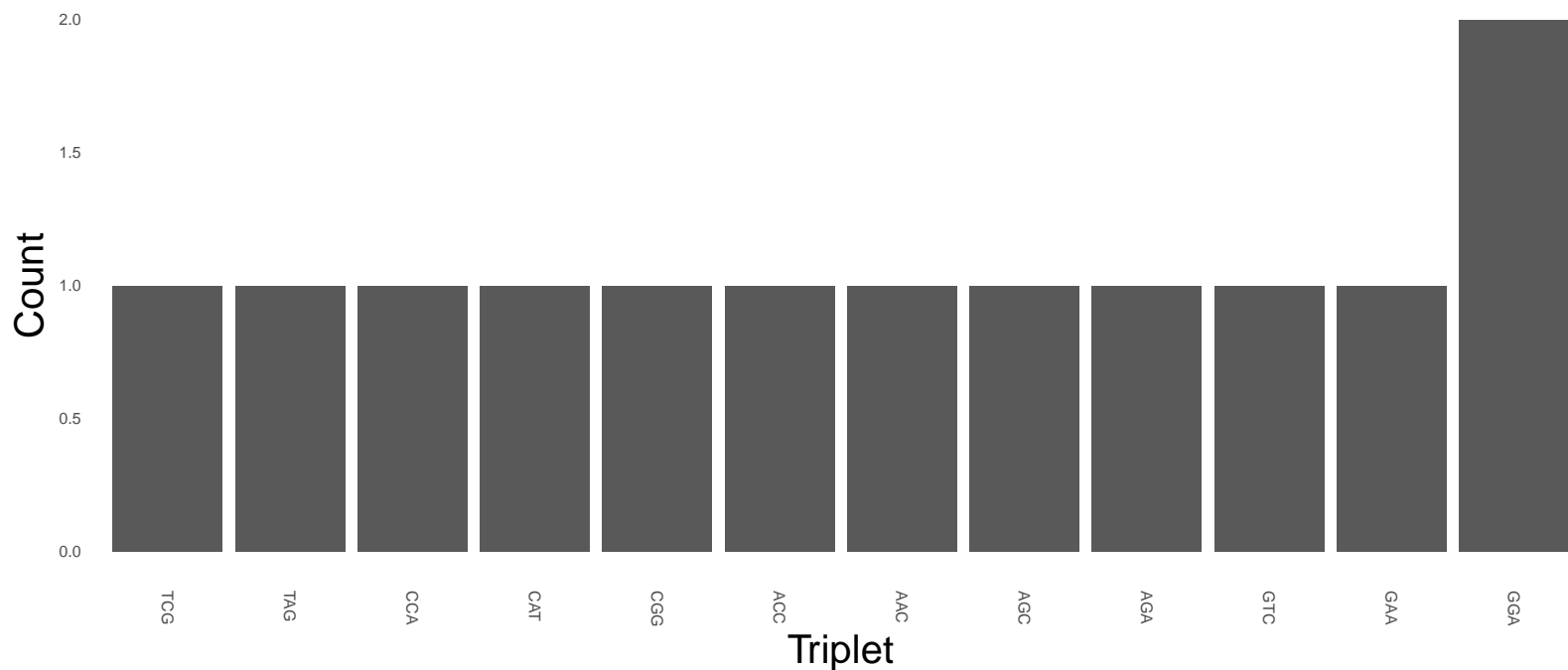
Gene TRBV7-1\*ap01\_T296C



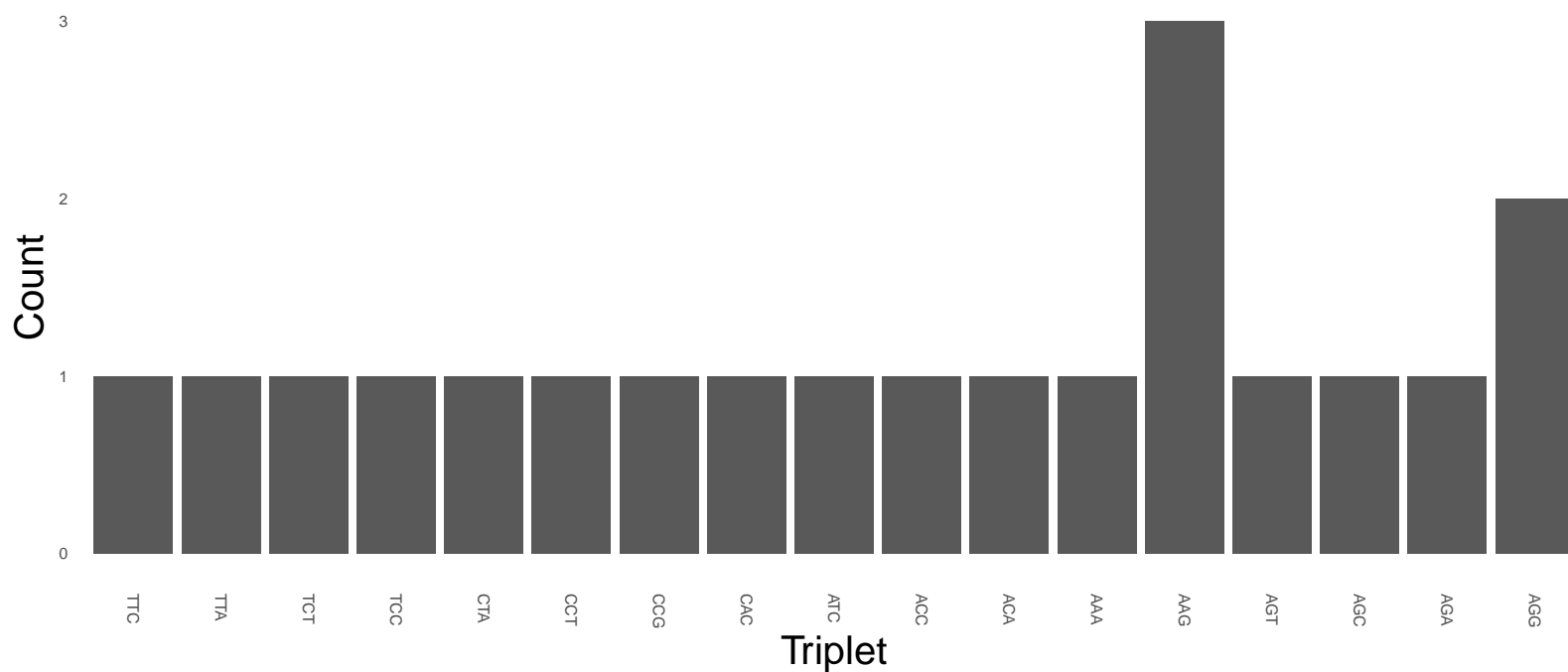
Gene TRBV7-7\*ap01\_C315T



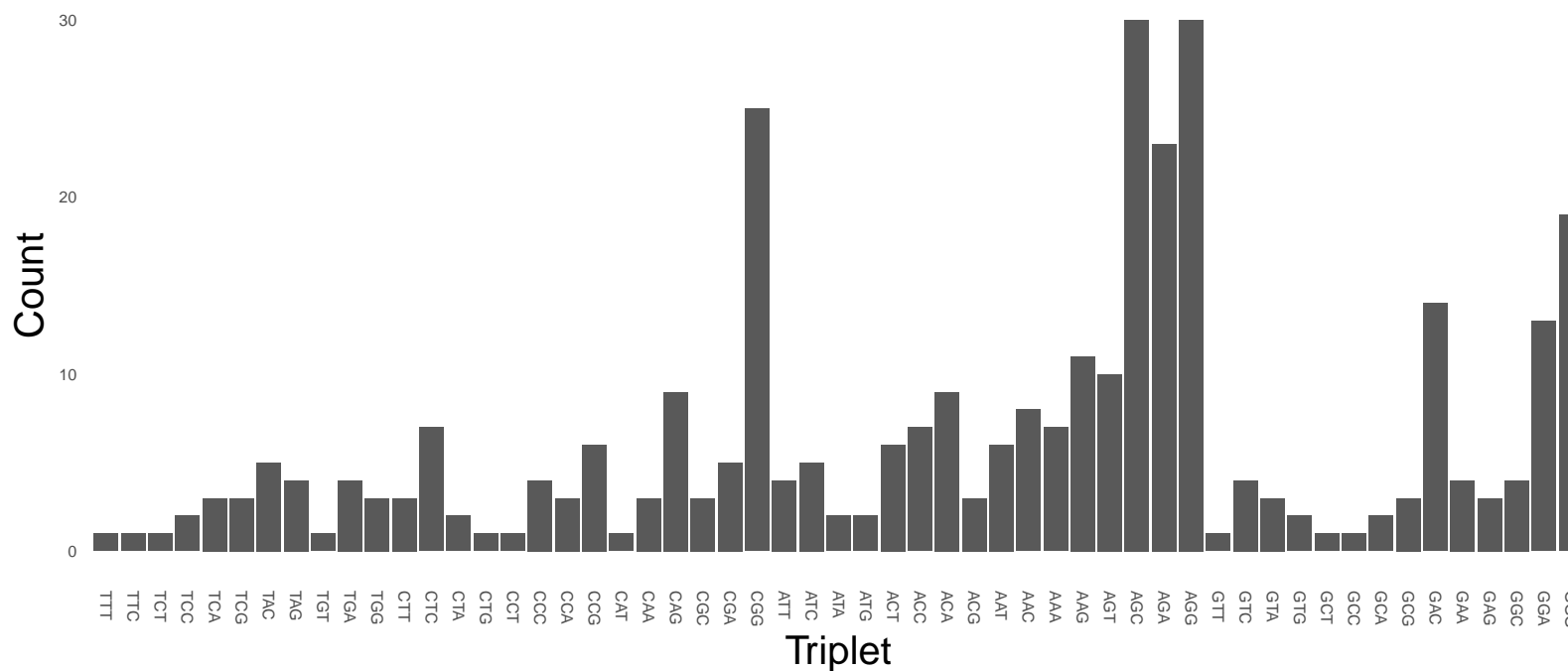
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

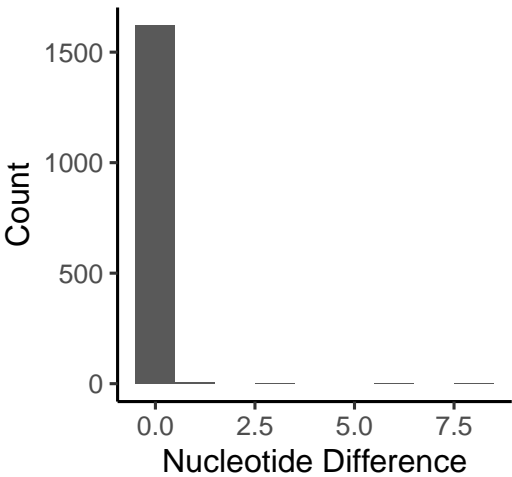


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



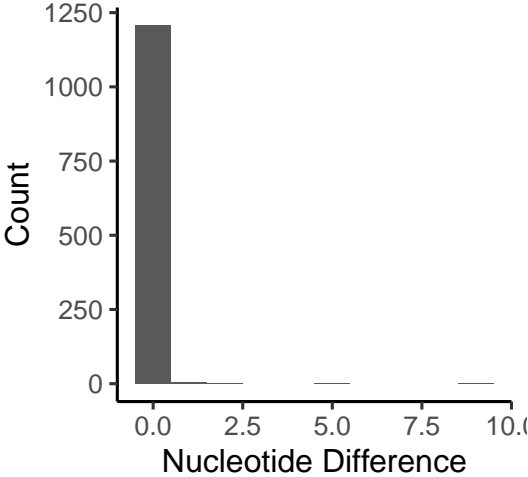
TRBV10-1\*ap01

1629 sequences assigned  
1621 (99.5%) exact matches, in which:  
1620 unique CDR3  
13 unique J



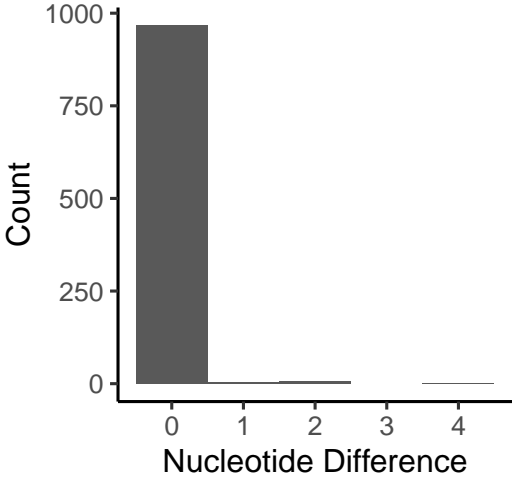
TRBV10-2\*ap01

1214 sequences assigned  
1207 (99.4%) exact matches, in which:  
1205 unique CDR3  
13 unique J



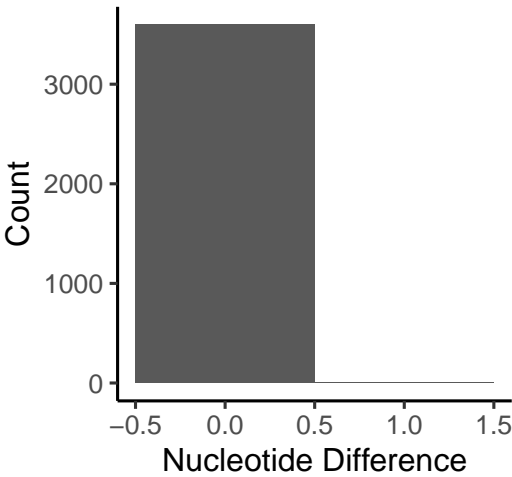
TRBV13\*ap01

977 sequences assigned  
967 (99%) exact matches, in which:  
963 unique CDR3  
13 unique J



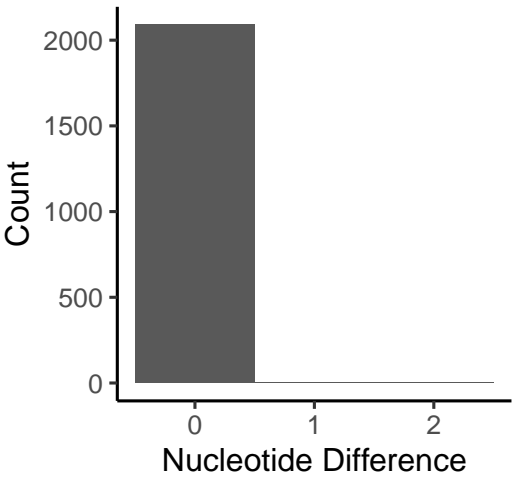
TRBV20-1\*ap01

3607 sequences assigned  
3597 (99.7%) exact matches, in which:  
3591 unique CDR3  
13 unique J



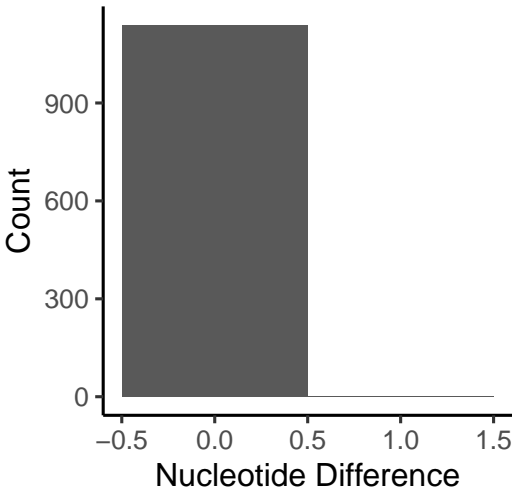
TRBV10-3\*ap01

2095 sequences assigned  
2090 (99.8%) exact matches, in which:  
2087 unique CDR3  
13 unique J



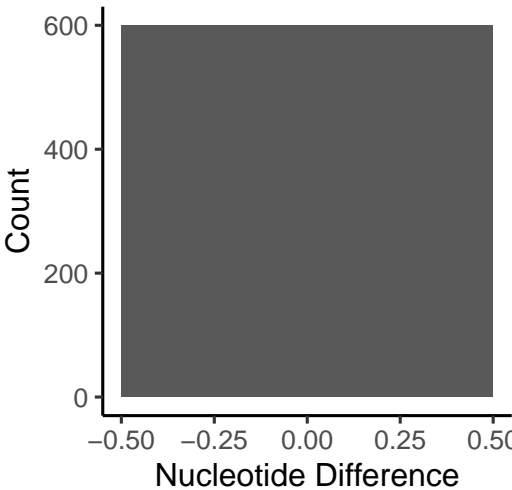
TRBV14\*ap01

1142 sequences assigned  
1139 (99.7%) exact matches, in which:  
1138 unique CDR3  
13 unique J



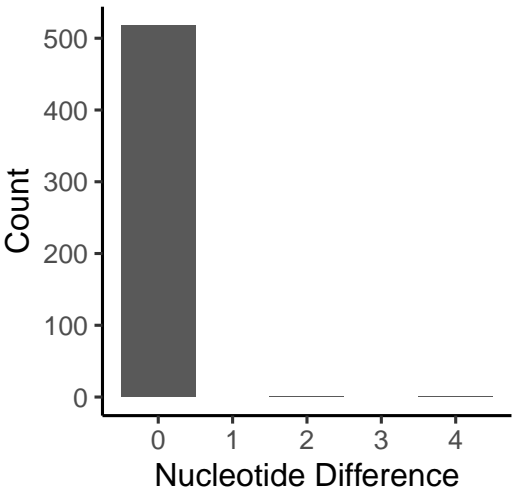
TRBV20-1\*ap02

600 sequences assigned  
600 (100%) exact matches, in which:  
600 unique CDR3  
13 unique J



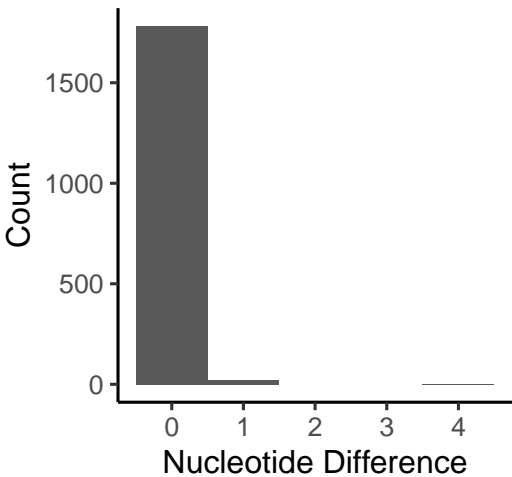
TRBV1\*ap01

520 sequences assigned  
518 (99.6%) exact matches, in which:  
513 unique CDR3  
13 unique J



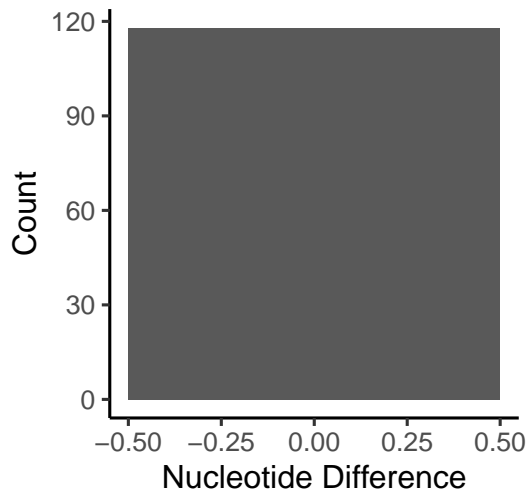
TRBV15\*ap02

1804 sequences assigned  
1782 (98.8%) exact matches, in which:  
1776 unique CDR3  
13 unique J



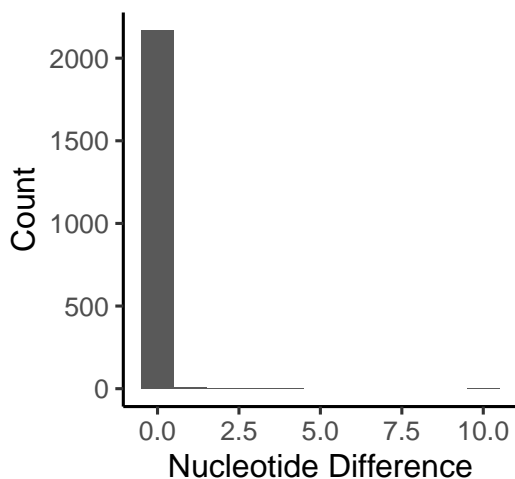
### TRBV16\*ap01

118 sequences assigned  
118 (100%) exact matches, in which:  
117 unique CDR3  
11 unique J



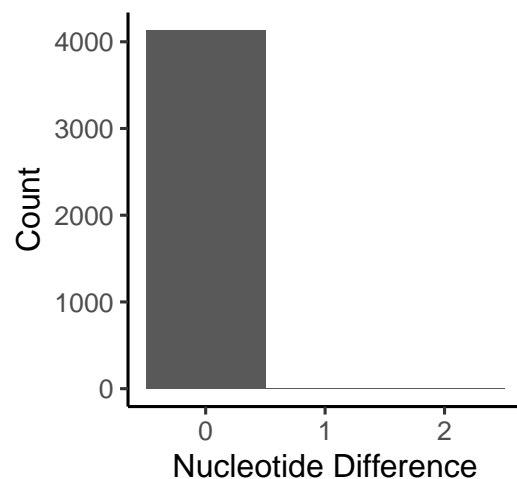
### TRBV19\*ap01

2183 sequences assigned  
2168 (99.3%) exact matches, in which:  
2166 unique CDR3  
13 unique J



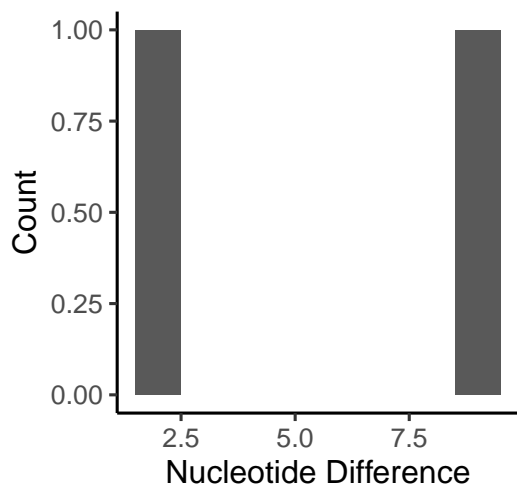
### TRBV28\*ap01

4141 sequences assigned  
4131 (99.8%) exact matches, in which:  
4129 unique CDR3  
13 unique J



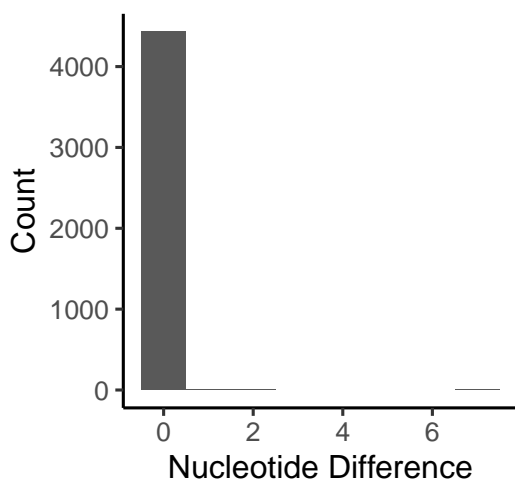
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



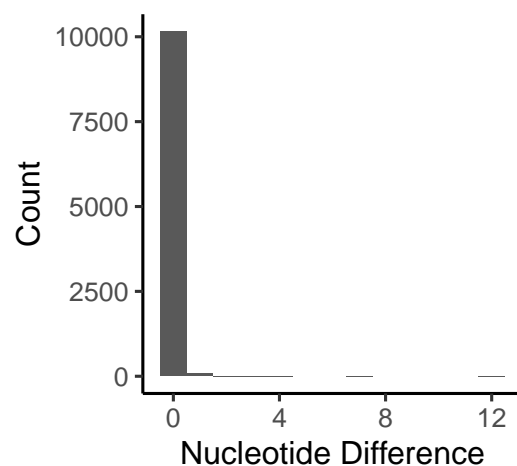
### TRBV2\*ap01

4442 sequences assigned  
4431 (99.8%) exact matches, in which:  
4424 unique CDR3  
13 unique J



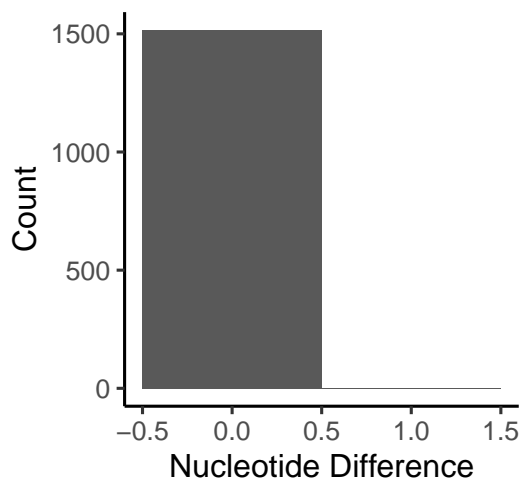
### TRBV30\*ap01

10250 sequences assigned  
10156 (99.1%) exact matches, in which:  
10117 unique CDR3  
13 unique J



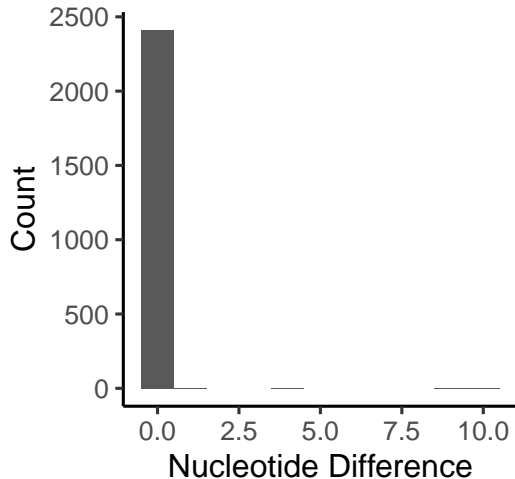
### TRBV18\*ap01

1517 sequences assigned  
1516 (99.9%) exact matches, in which:  
1513 unique CDR3  
13 unique J



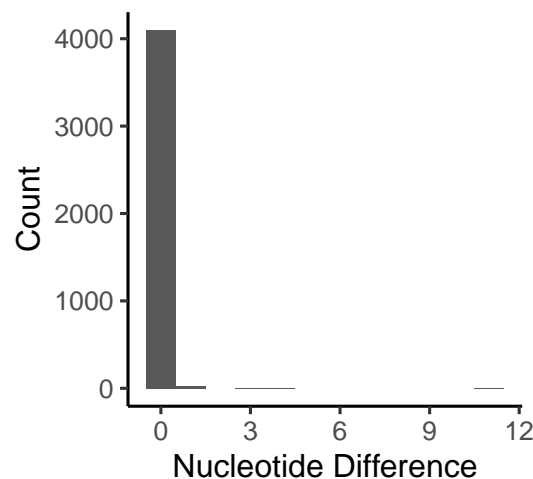
### TRBV27\*ap01

2419 sequences assigned  
2411 (99.7%) exact matches, in which:  
2405 unique CDR3  
13 unique J



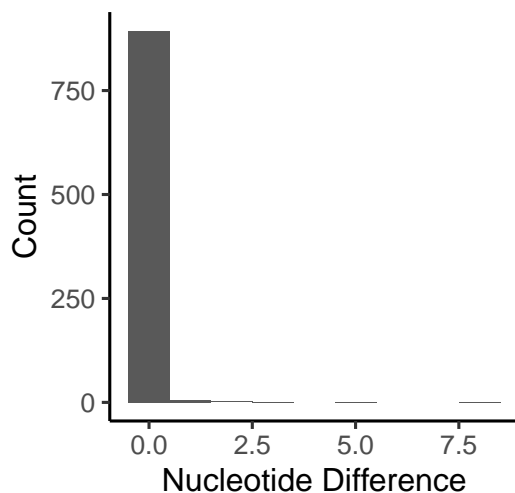
### TRBV9\*ap01

4129 sequences assigned  
4099 (99.3%) exact matches, in which:  
4094 unique CDR3  
13 unique J



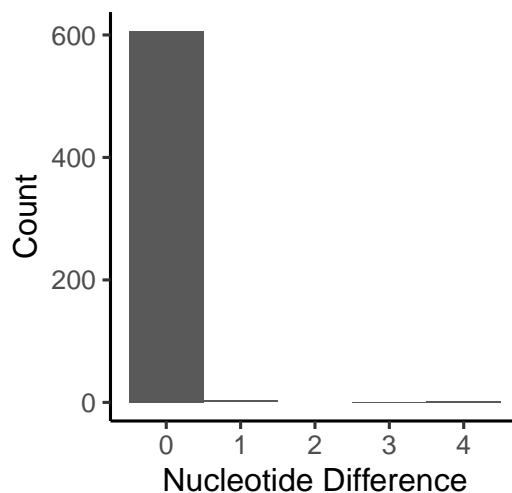
### TRBV21-1\*ap01

905 sequences assigned  
894 (98.8%) exact matches, in which:  
893 unique CDR3  
13 unique J



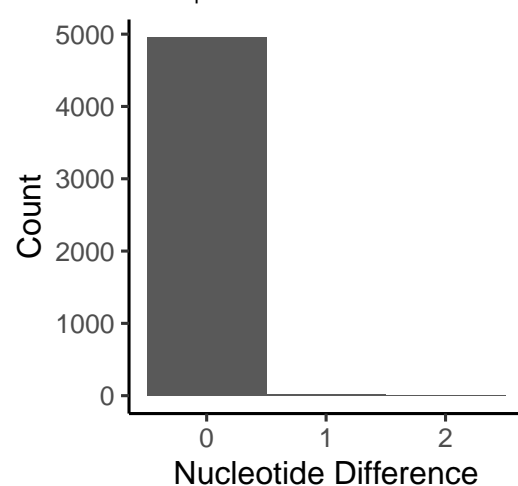
### TRBV11-3\*ap01

613 sequences assigned  
607 (99%) exact matches, in which:  
606 unique CDR3  
13 unique J



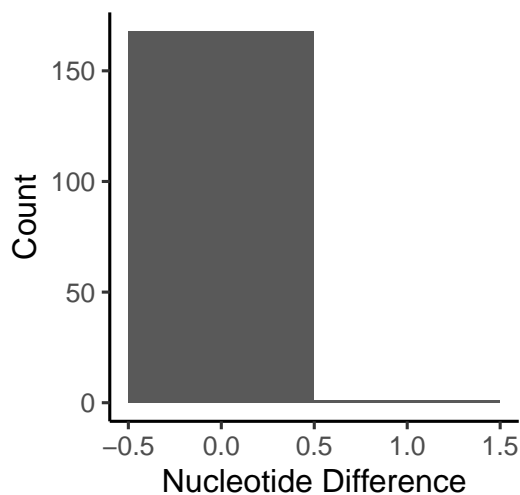
### TRBV12-34\*ap01

4977 sequences assigned  
4955 (99.6%) exact matches, in which:  
4949 unique CDR3  
13 unique J



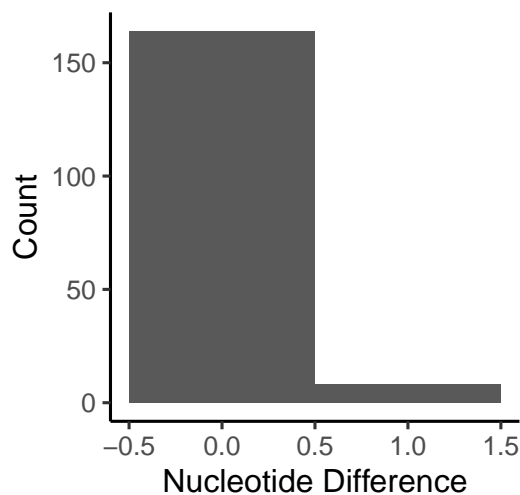
### TRBV11-1\*ap01

169 sequences assigned  
168 (99.4%) exact matches, in which:  
168 unique CDR3  
12 unique J



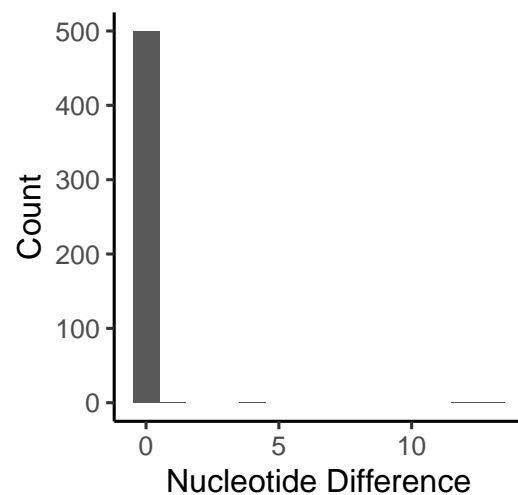
### TRBV12-2\*ap01

172 sequences assigned  
164 (95.3%) exact matches, in which:  
163 unique CDR3  
13 unique J



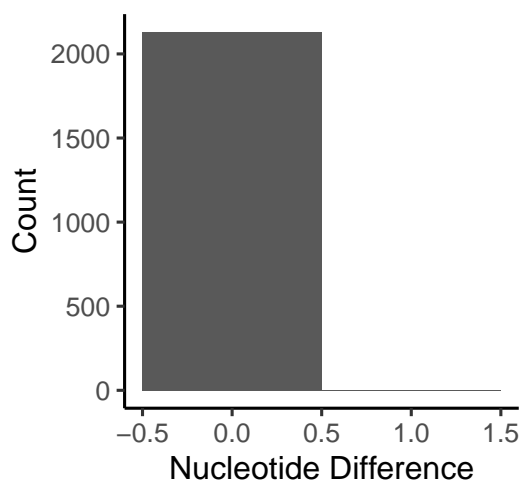
### TRBV23-1\*ap01

504 sequences assigned  
500 (99.2%) exact matches, in which:  
500 unique CDR3  
13 unique J



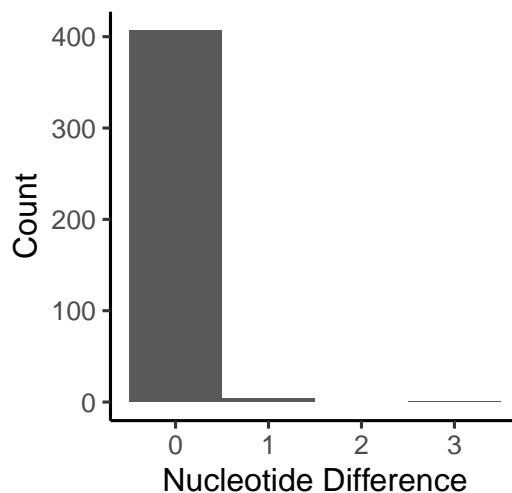
### TRBV11-2\*ap01

2131 sequences assigned  
2130 (100%) exact matches, in which:  
2130 unique CDR3  
13 unique J



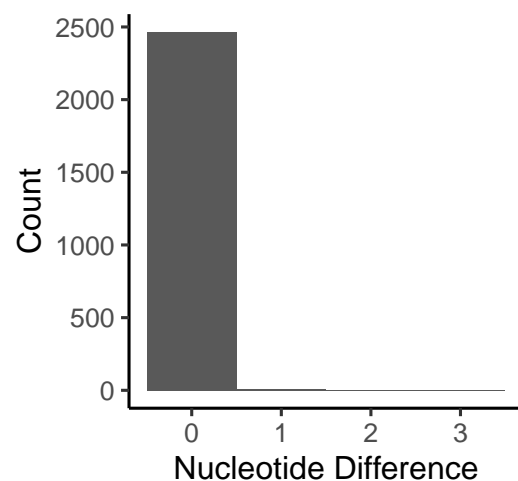
### TRBV12-5\*ap01

412 sequences assigned  
407 (98.8%) exact matches, in which:  
407 unique CDR3  
13 unique J



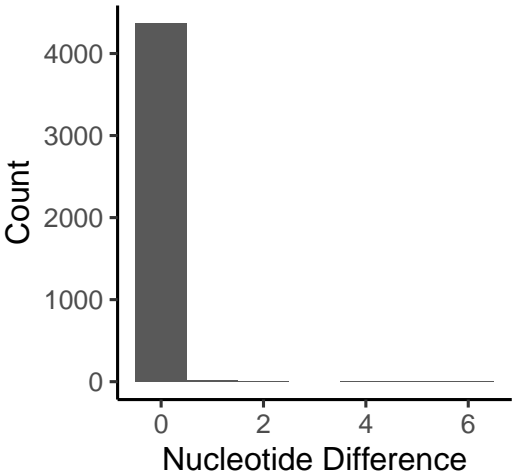
### TRBV3-12\*ap01

2477 sequences assigned  
2465 (99.5%) exact matches, in which:  
2465 unique CDR3  
13 unique J



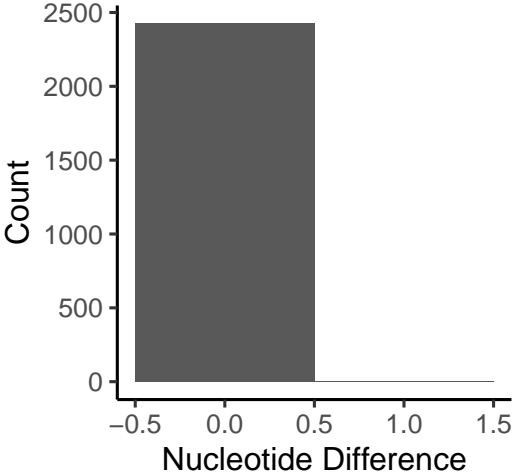
TRBV24-1\*ap01

4388 sequences assigned  
4367 (99.5%) exact matches, in which:  
4356 unique CDR3  
13 unique J



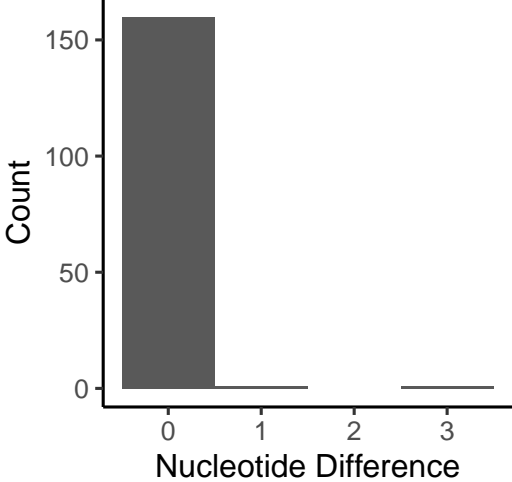
TRBV4-3\*ap01

2432 sequences assigned  
2426 (99.8%) exact matches, in which:  
2420 unique CDR3  
13 unique J



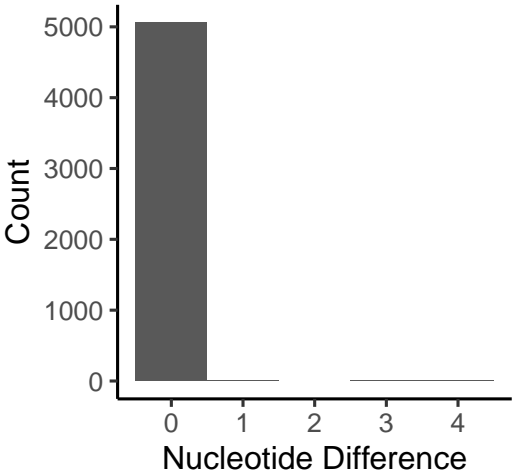
TRBV5-3\*ap01

162 sequences assigned  
160 (98.8%) exact matches, in which:  
160 unique CDR3  
13 unique J



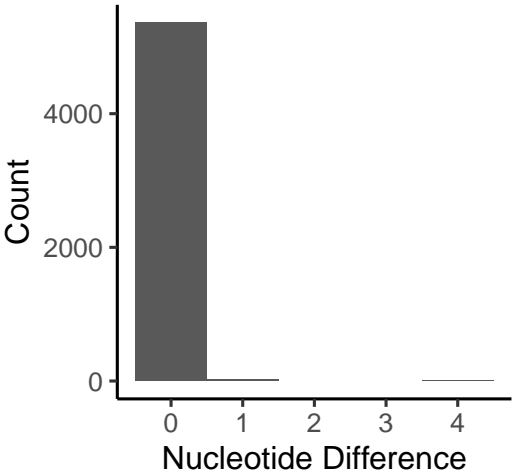
TRBV4-1\*ap01

5068 sequences assigned  
5058 (99.8%) exact matches, in which:  
5051 unique CDR3  
13 unique J



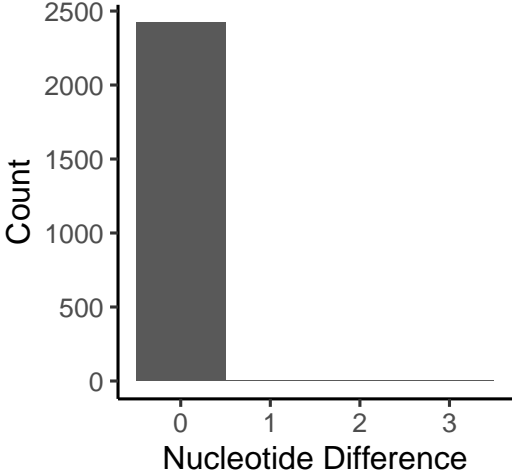
TRBV5-1\*ap01

5384 sequences assigned  
5361 (99.6%) exact matches, in which:  
5355 unique CDR3  
13 unique J



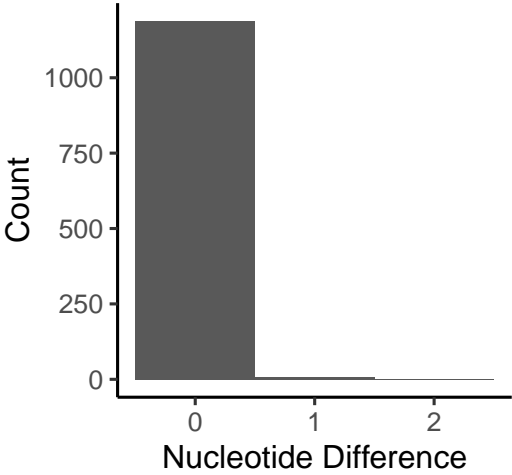
TRBV5-4\*ap01

2426 sequences assigned  
2421 (99.8%) exact matches, in which:  
2419 unique CDR3  
13 unique J



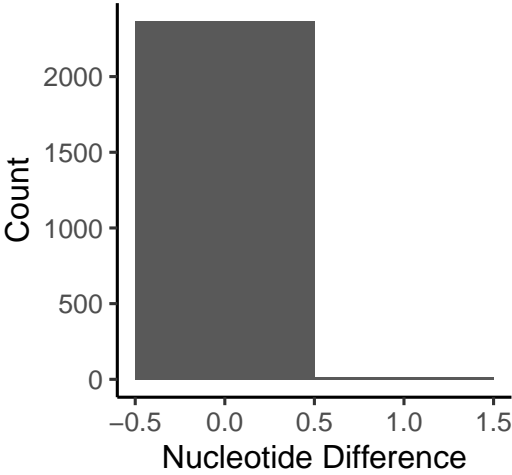
TRBV4-2\*ap01

1197 sequences assigned  
1188 (99.2%) exact matches, in which:  
1184 unique CDR3  
13 unique J



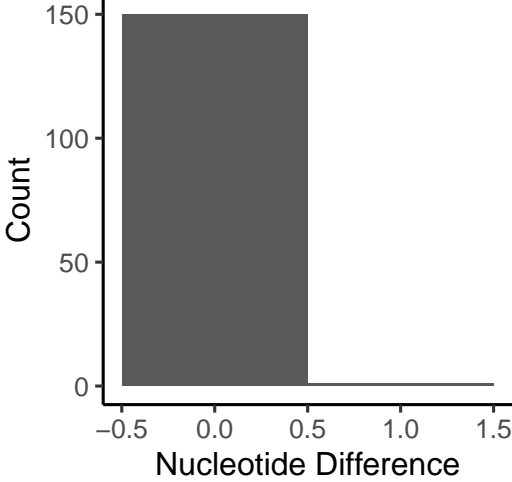
TRBV25-1\*ap01

2384 sequences assigned  
2367 (99.3%) exact matches, in which:  
2360 unique CDR3  
13 unique J



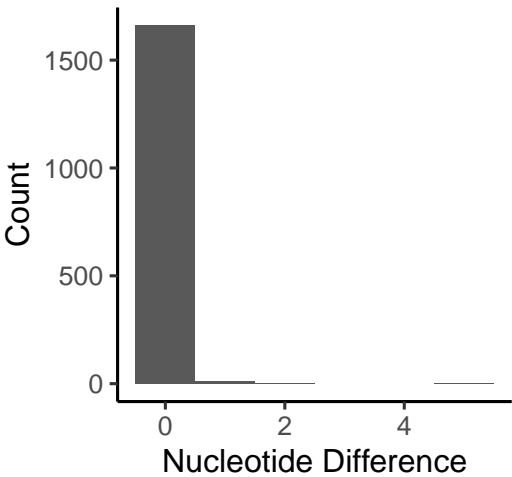
TRBV5-5\*ap01

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



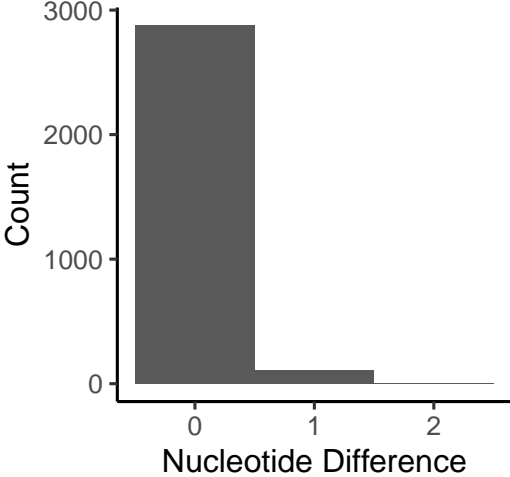
TRBV5-6\*ap01

1675 sequences assigned  
1661 (99.2%) exact matches, in which:  
1657 unique CDR3  
13 unique J



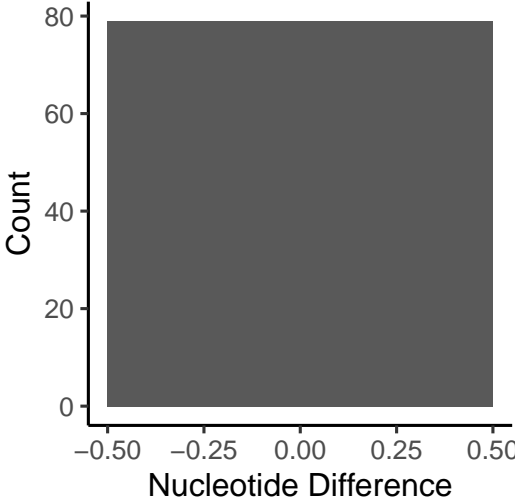
TRBV6-1\*ap01

2987 sequences assigned  
2877 (96.3%) exact matches, in which:  
2868 unique CDR3  
13 unique J



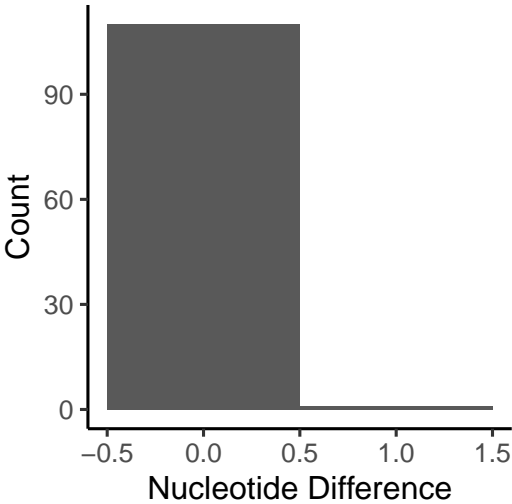
TRBV6-8\*ap01

79 sequences assigned  
79 (100%) exact matches, in which:  
79 unique CDR3  
12 unique J



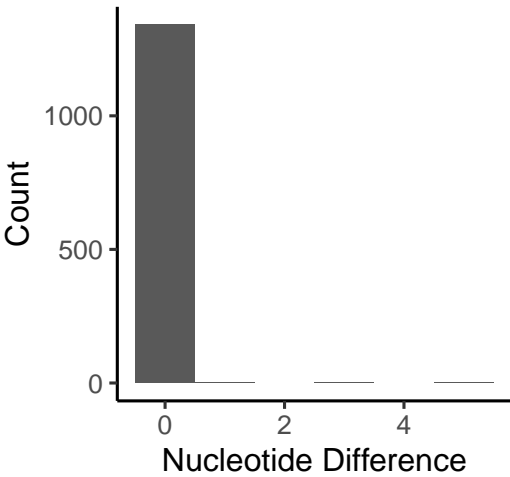
TRBV5-7\*ap01

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



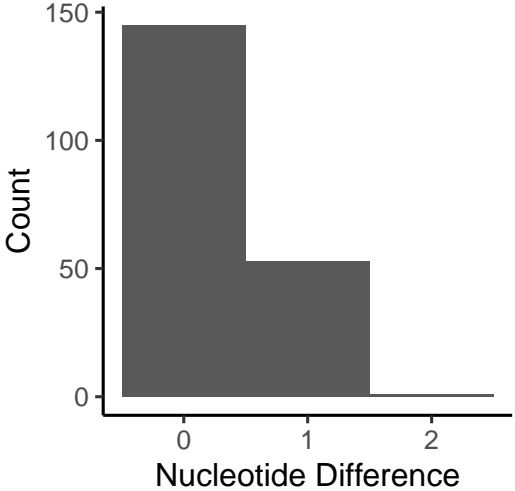
TRBV6-4\*ap01

1347 sequences assigned  
1341 (99.6%) exact matches, in which:  
1340 unique CDR3  
13 unique J



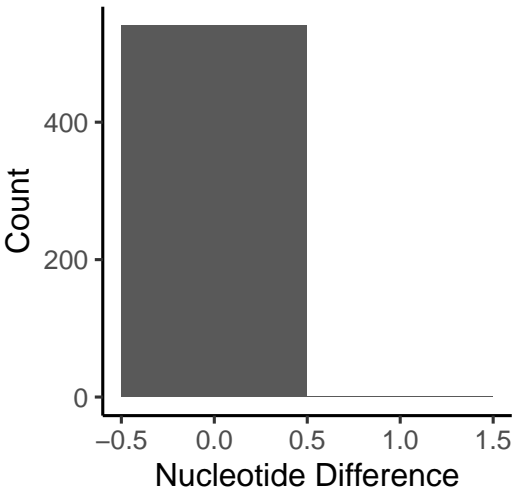
TRBV6-9\*ap01

199 sequences assigned  
145 (72.9%) exact matches, in which:  
145 unique CDR3  
13 unique J



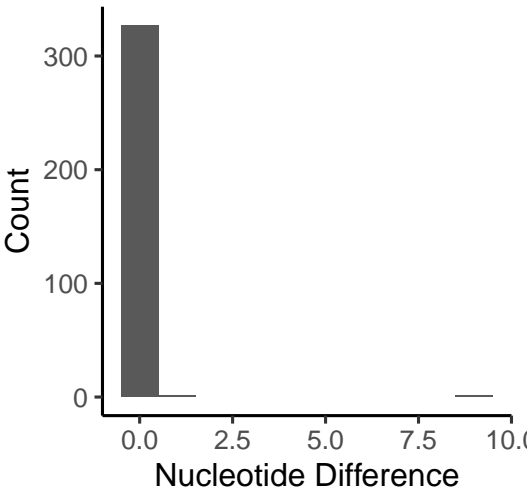
TRBV5-8\*ap01

542 sequences assigned  
541 (99.8%) exact matches, in which:  
540 unique CDR3  
13 unique J



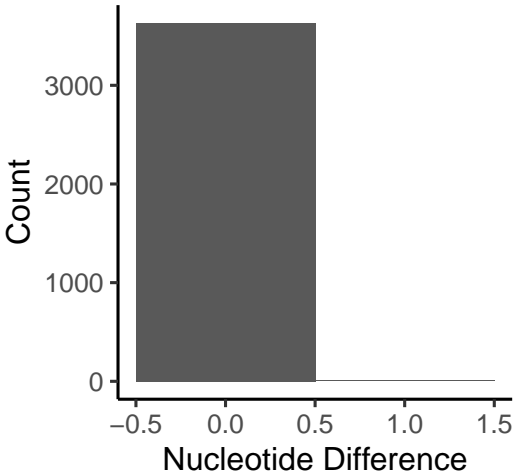
TRBV6-7\*ap01

329 sequences assigned  
327 (99.4%) exact matches, in which:  
326 unique CDR3  
13 unique J



TRBV6-23\*ap01

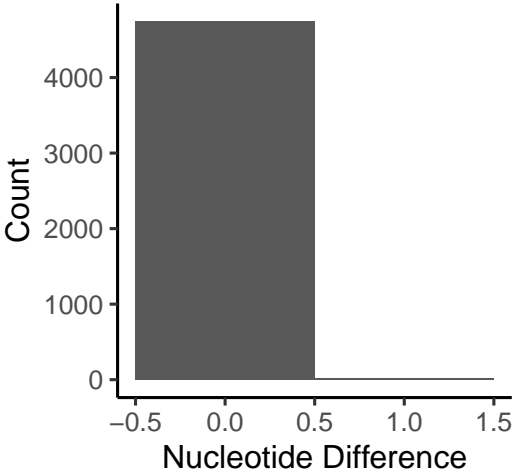
3641 sequences assigned  
3631 (99.7%) exact matches, in which:  
3623 unique CDR3  
13 unique J





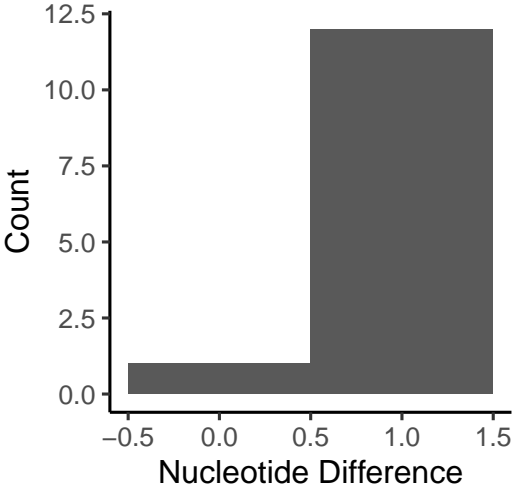
TRBV6-56\*ap01

4762 sequences assigned  
4743 (99.6%) exact matches, in which:  
4730 unique CDR3  
13 unique J



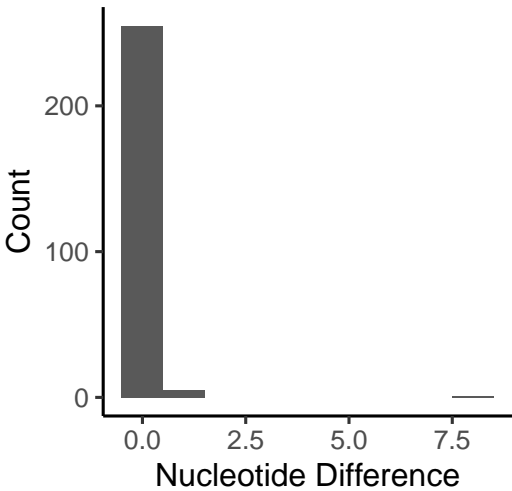
TRBV7-1\*ap01\_T296C\_

13 sequences assigned  
1 (7.7%) exact matches, in which:  
1 unique CDR3  
1 unique J



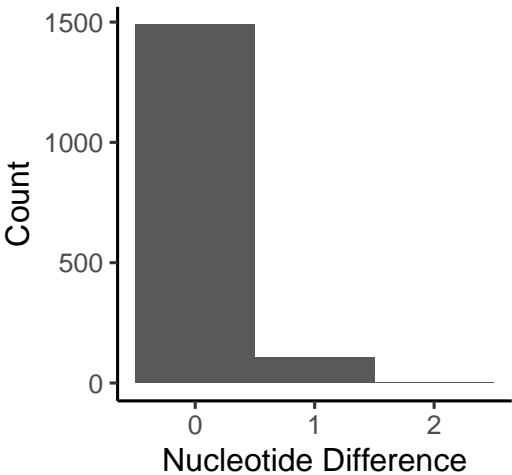
TRBV7-3\*ap02

261 sequences assigned  
255 (97.7%) exact matches, in which:  
255 unique CDR3  
11 unique J



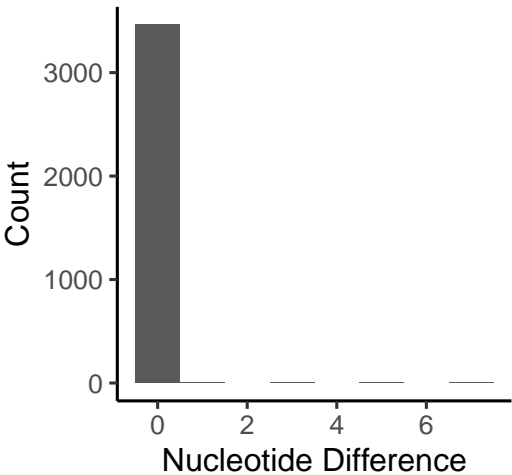
TRBV6-56\*ap02

1598 sequences assigned  
1489 (93.2%) exact matches, in which:  
1484 unique CDR3  
13 unique J



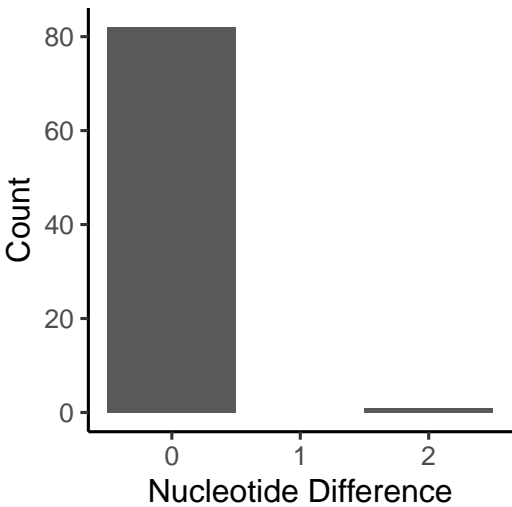
TRBV7-2\*ap01

3475 sequences assigned  
3463 (99.7%) exact matches, in which:  
3459 unique CDR3  
13 unique J



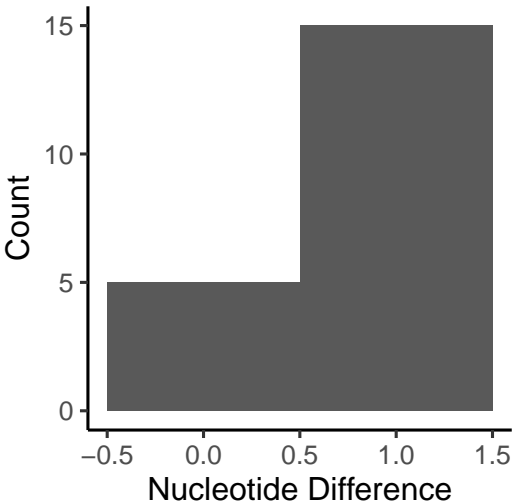
TRBV7-4\*ap01

83 sequences assigned  
82 (98.8%) exact matches, in which:  
81 unique CDR3  
11 unique J



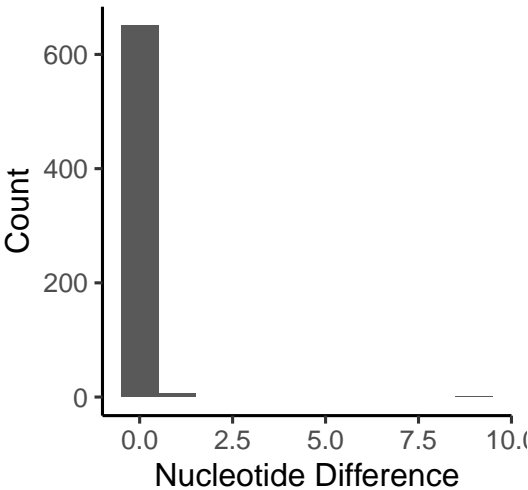
TRBV7-1\*ap01\_T296C

20 sequences assigned  
5 (25%) exact matches, in which:  
5 unique CDR3  
4 unique J



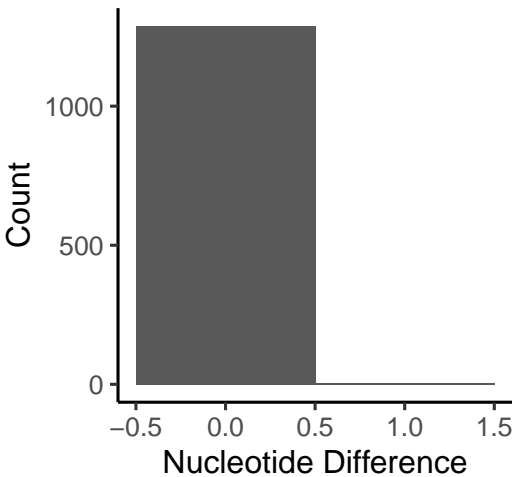
TRBV7-3\*ap01

659 sequences assigned  
651 (98.8%) exact matches, in which:  
651 unique CDR3  
13 unique J



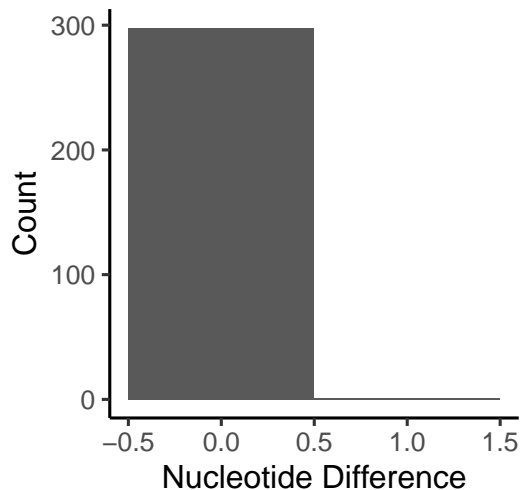
TRBV7-6\*ap01

1292 sequences assigned  
1288 (99.7%) exact matches, in which:  
1287 unique CDR3  
13 unique J



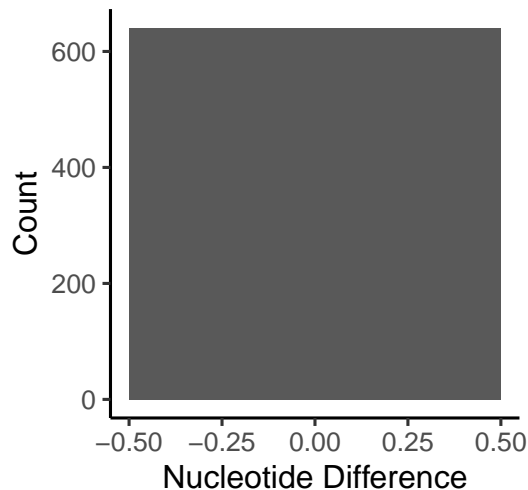
### TRBV7-7\*ap01

299 sequences assigned  
298 (99.7%) exact matches, in which:  
298 unique CDR3  
13 unique J



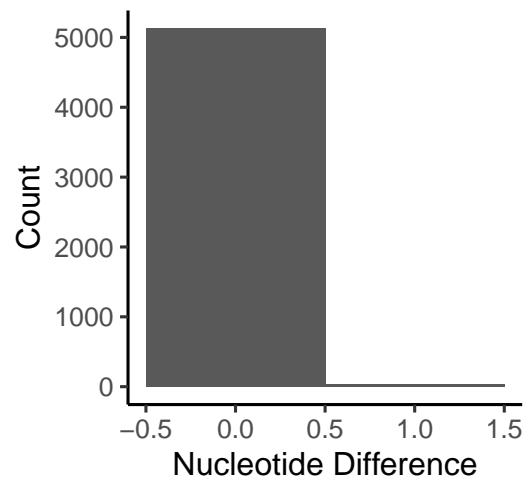
### TRBV7-8\*ap02

641 sequences assigned  
641 (100%) exact matches, in which:  
641 unique CDR3  
13 unique J



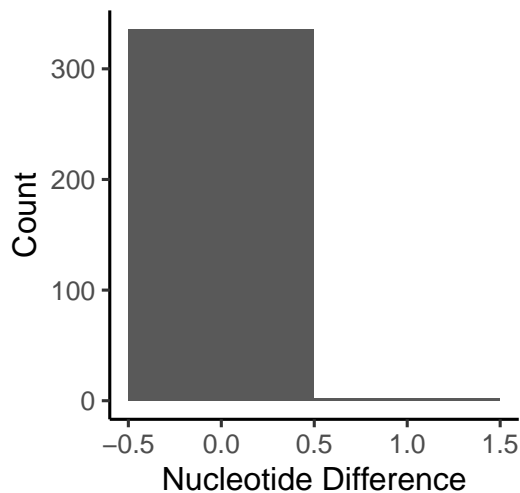
### TRBV29-1\*ap01

5159 sequences assigned  
5129 (99.4%) exact matches, in which:  
5103 unique CDR3  
13 unique J



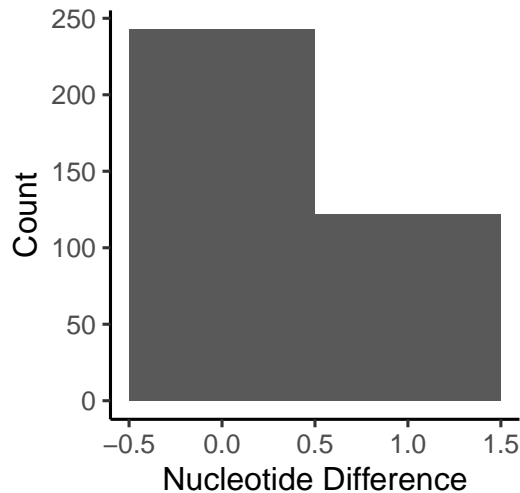
### TRBV7-7\*ap01\_C315T

338 sequences assigned  
336 (99.4%) exact matches, in which:  
335 unique CDR3  
13 unique J



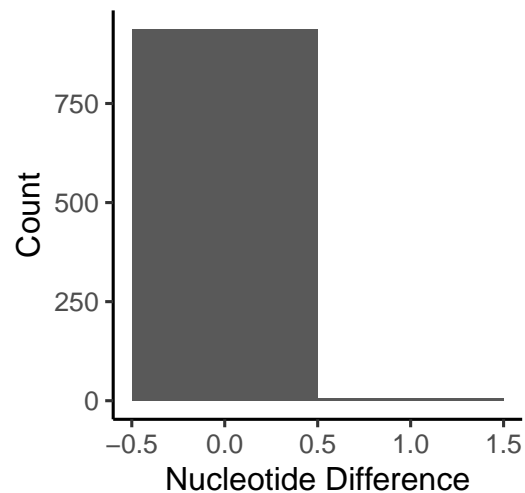
### TRBV7-8\*ap03

365 sequences assigned  
243 (66.6%) exact matches, in which:  
243 unique CDR3  
13 unique J



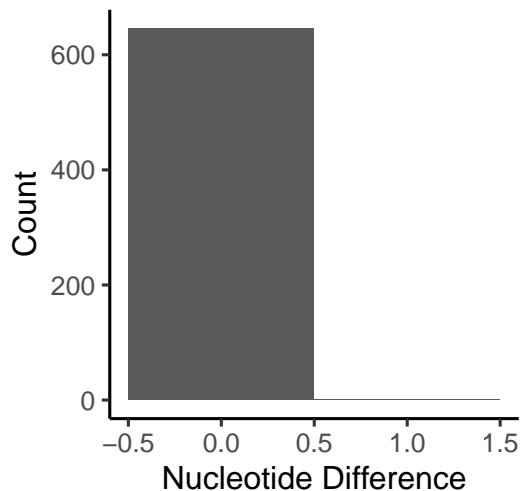
### TRBV29-1\*ap02

944 sequences assigned  
938 (99.4%) exact matches, in which:  
933 unique CDR3  
13 unique J



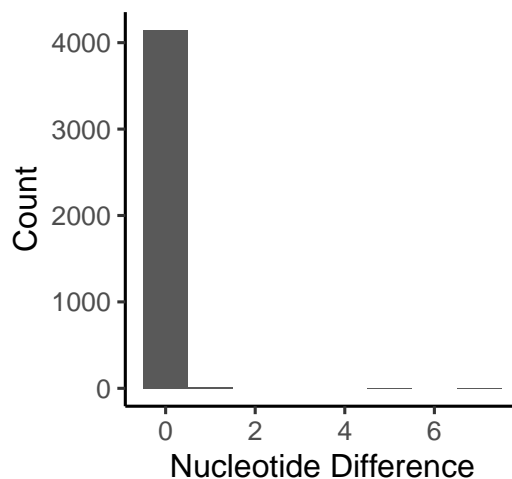
### TRBV7-8\*ap01

647 sequences assigned  
646 (99.8%) exact matches, in which:  
646 unique CDR3  
13 unique J

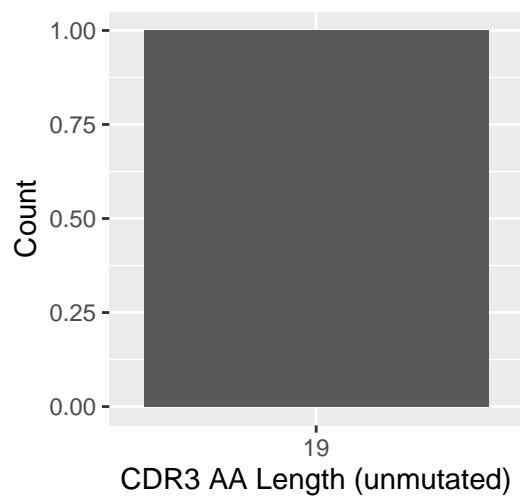


### TRBV7-9\*ap01

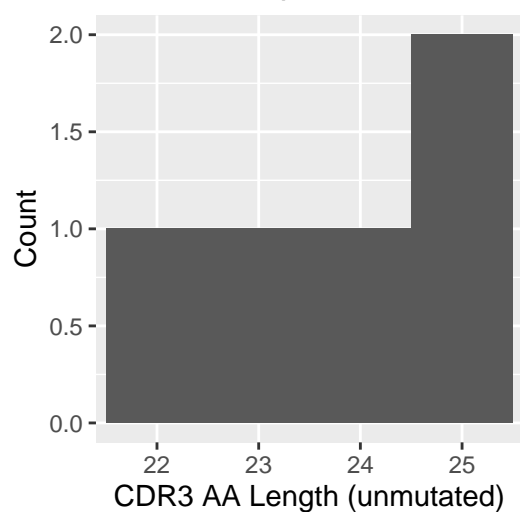
4163 sequences assigned  
4146 (99.6%) exact matches, in which:  
4143 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T

