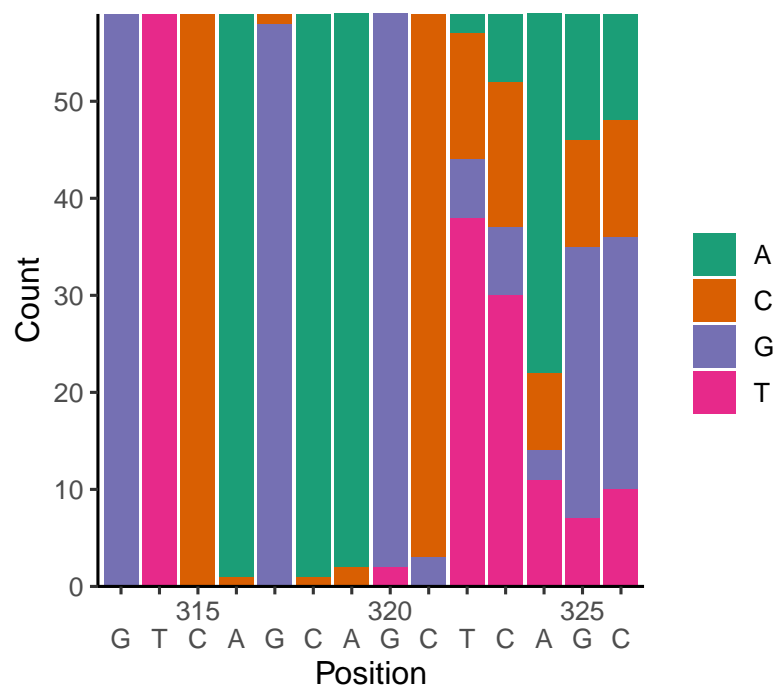
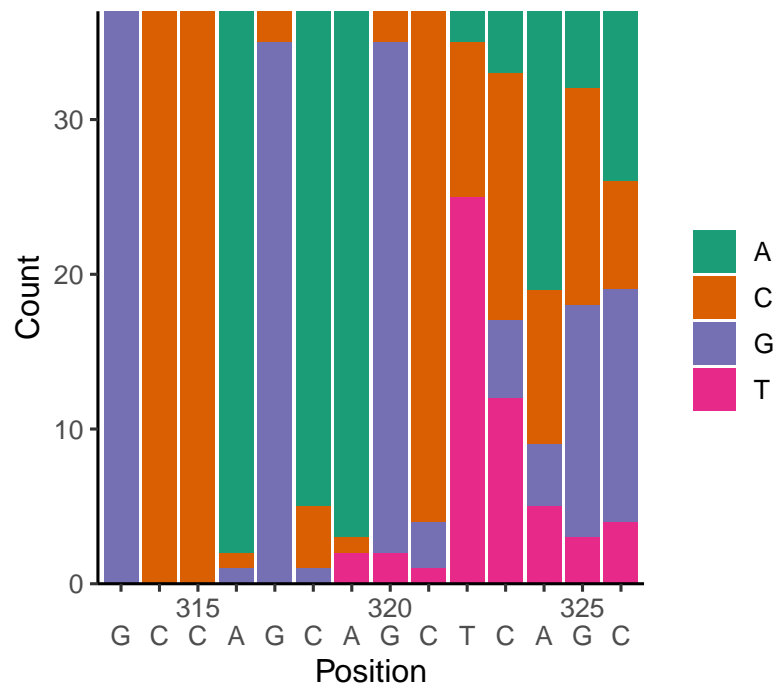


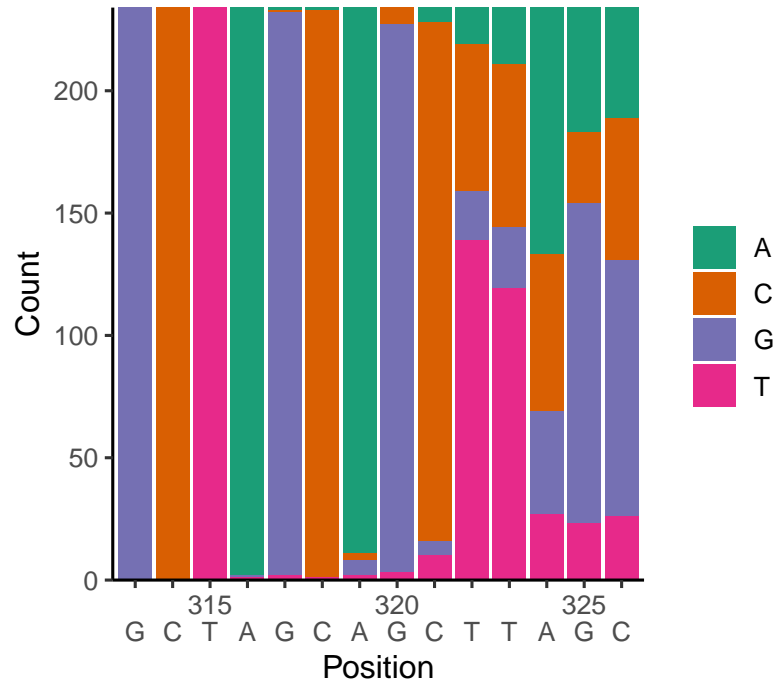
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-1\*ap01\_G291C\_T296C



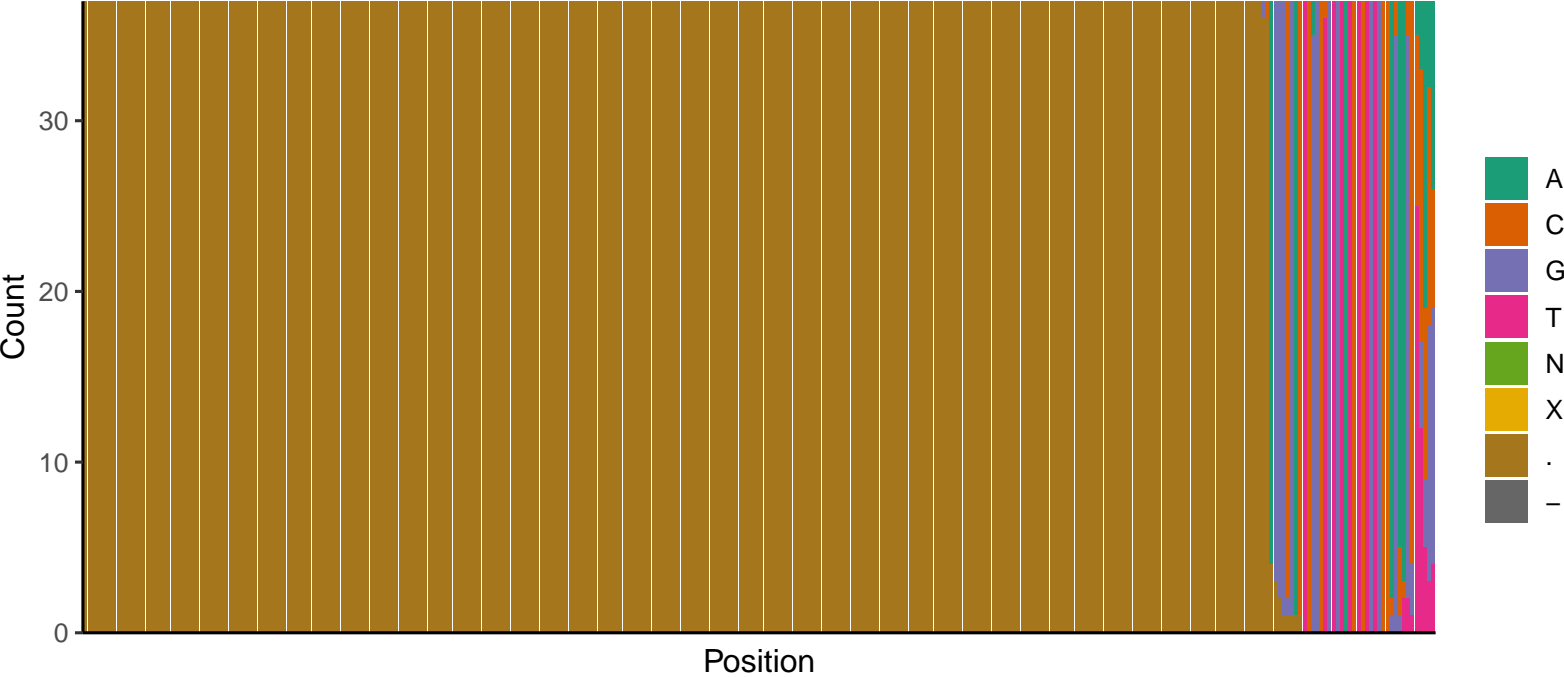
Gene TRBV7-7\*ap01\_C315T



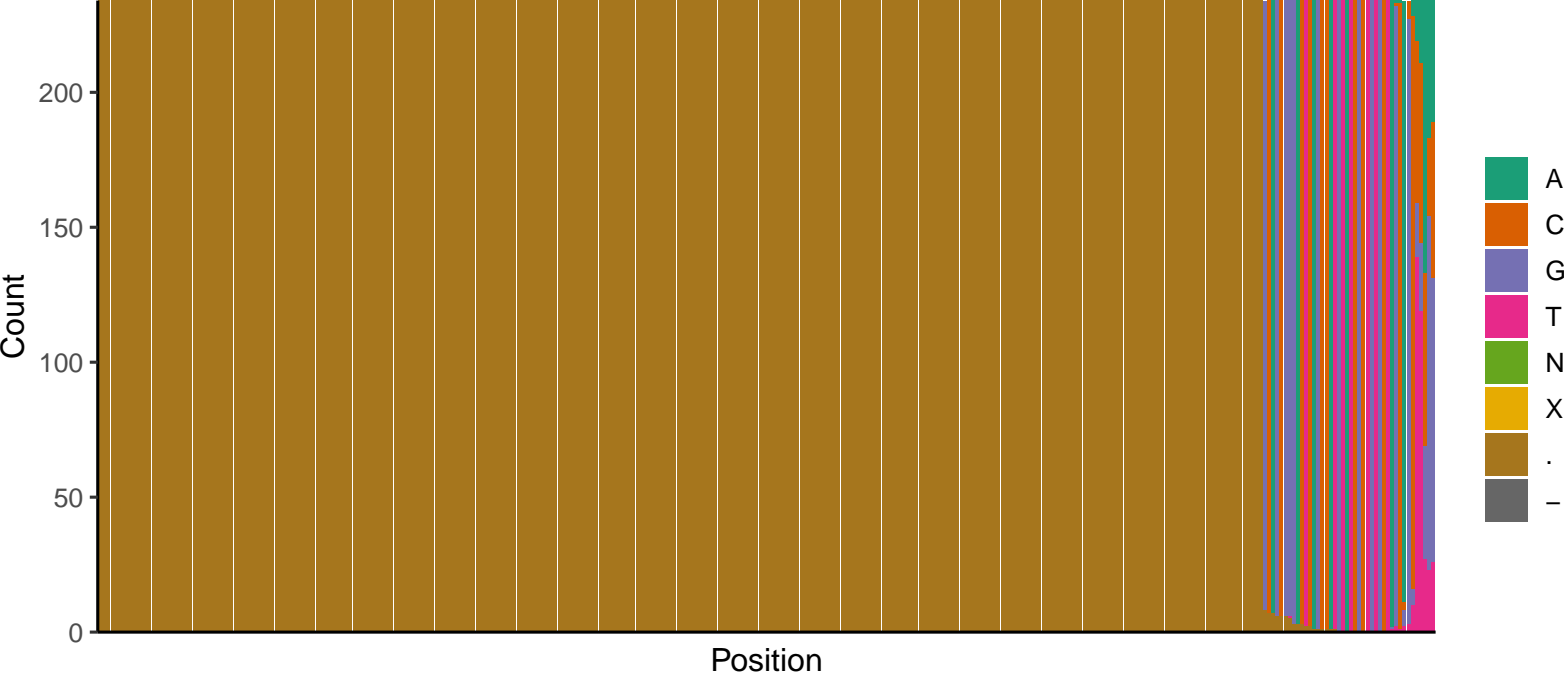
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



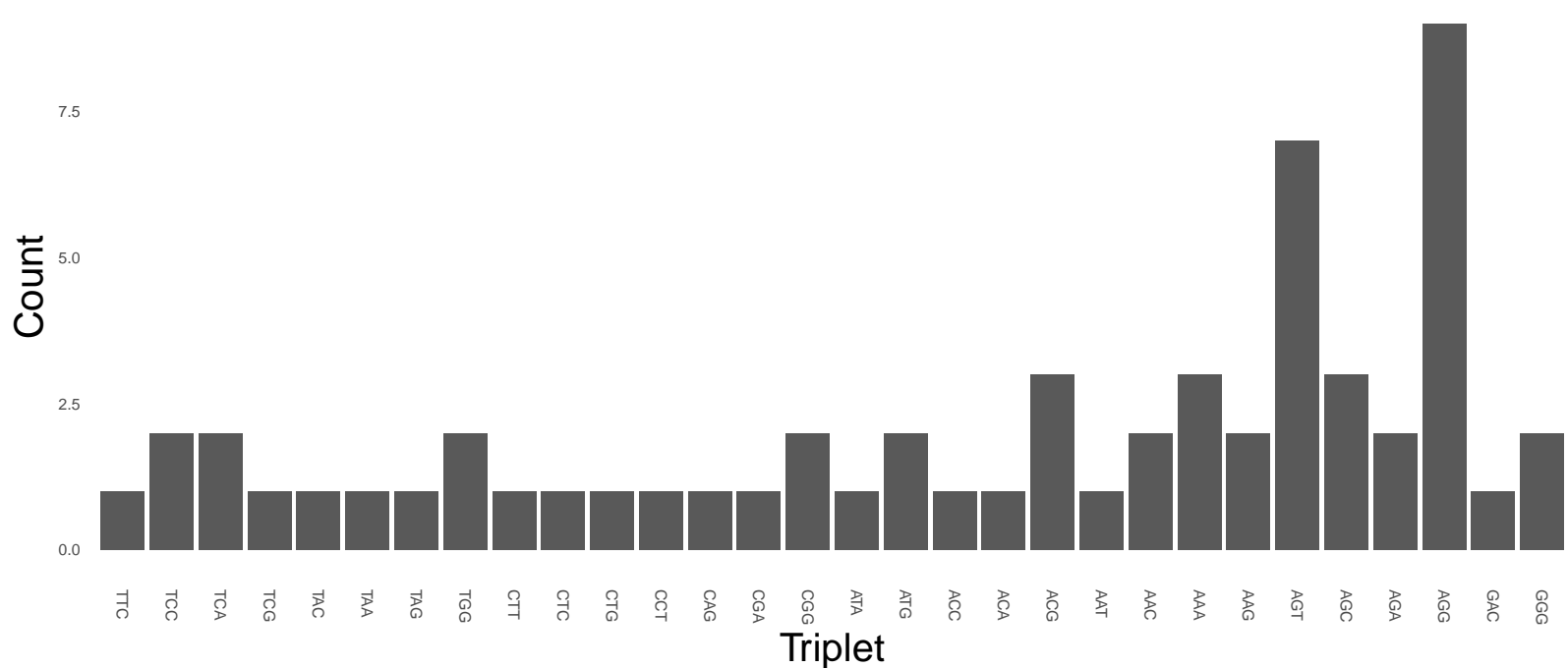
Gene TRBV7-1\*ap01\_G291C\_T296C



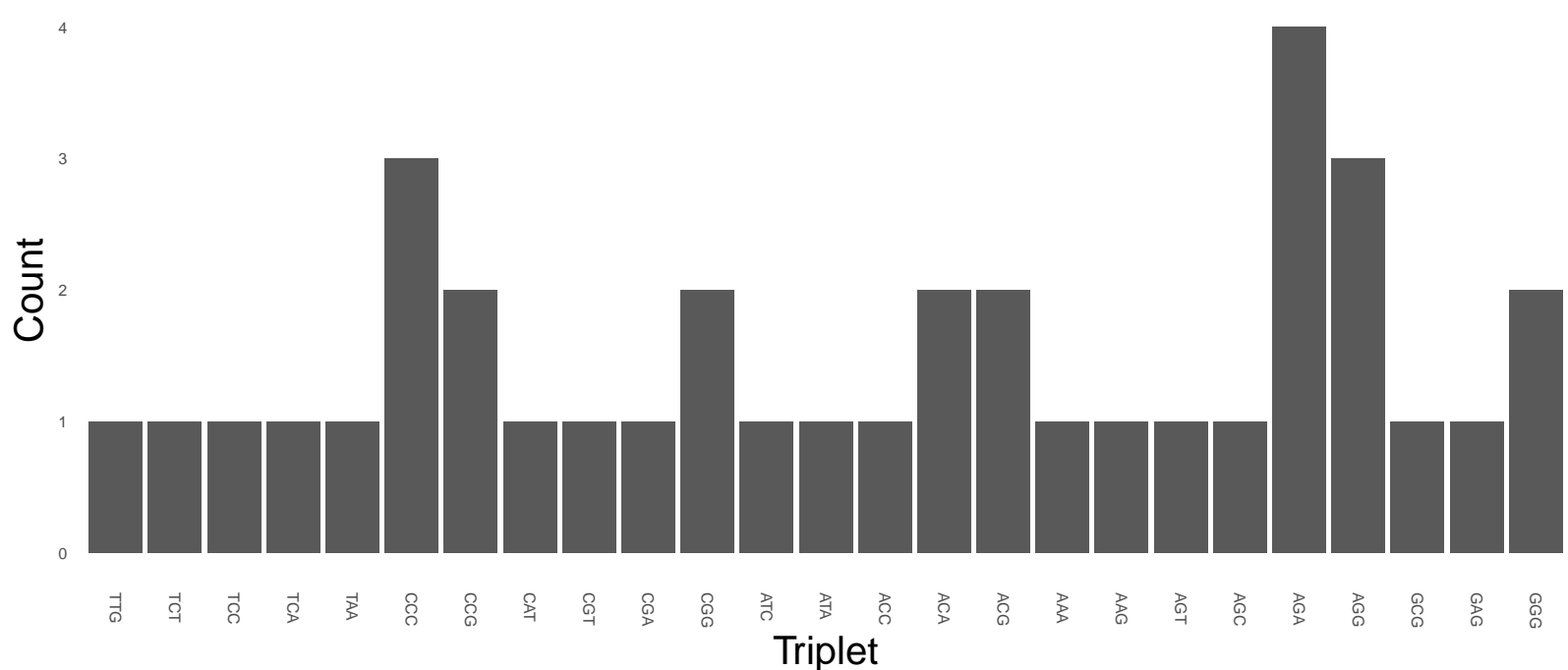
Gene TRBV7-7\*ap01\_C315T



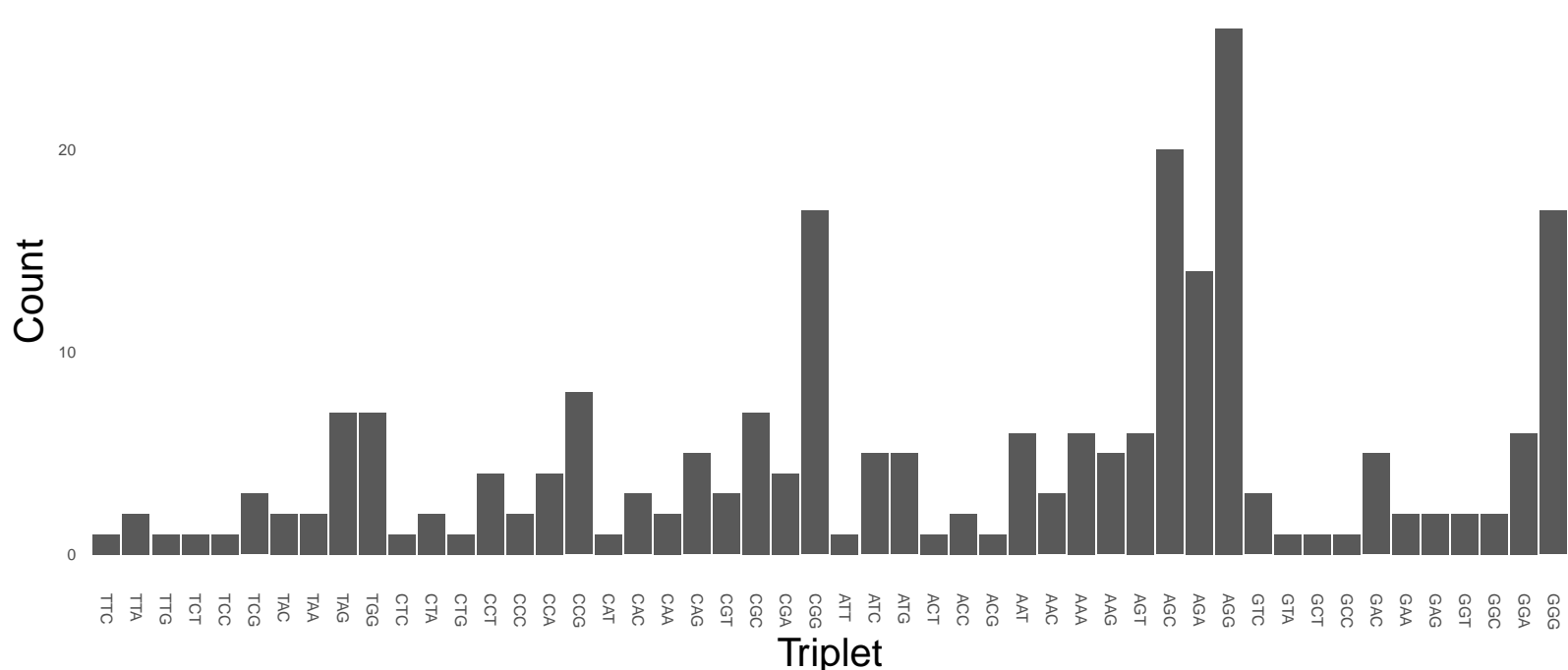
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

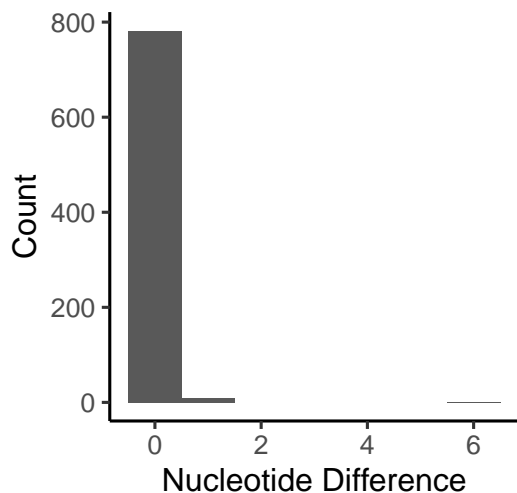


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



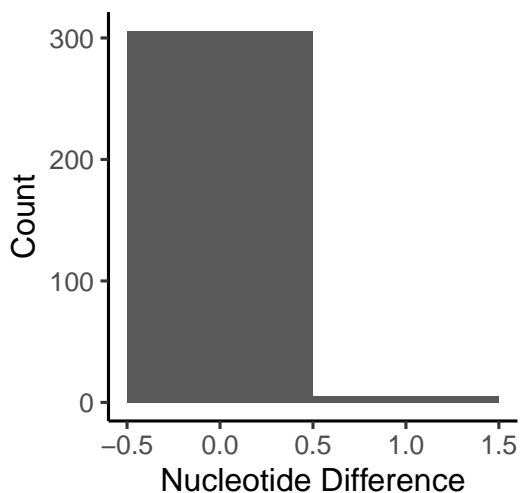
### TRBV10–1\*ap01

792 sequences assigned  
782 (98.7%) exact matches, in which:  
765 unique CDR3  
13 unique J



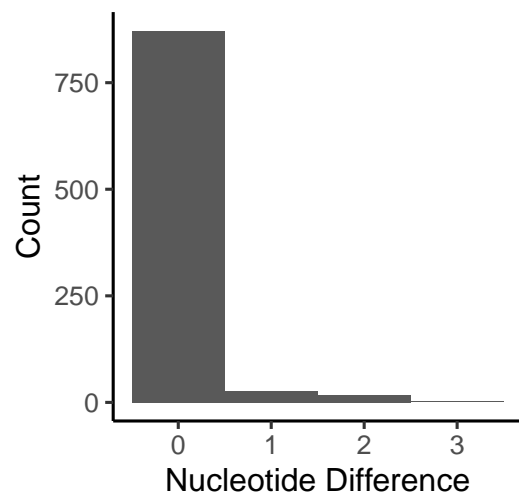
### TRBV10–2\*ap01

311 sequences assigned  
306 (98.4%) exact matches, in which:  
297 unique CDR3  
13 unique J



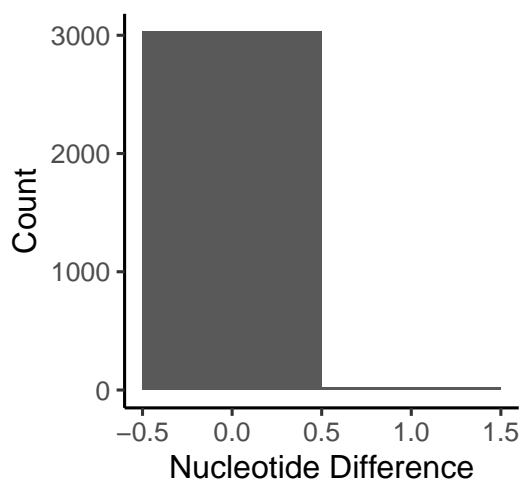
### TRBV13\*ap01

918 sequences assigned  
872 (95%) exact matches, in which:  
851 unique CDR3  
13 unique J



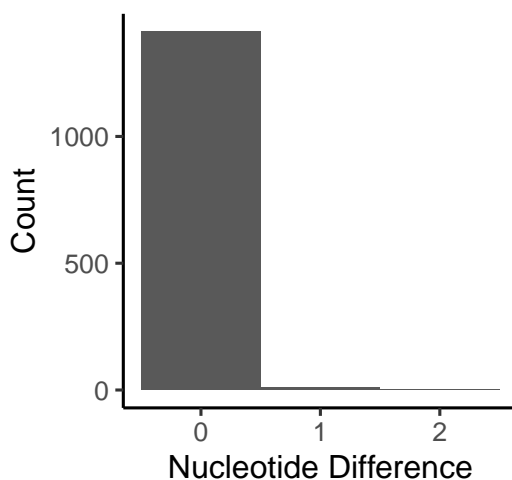
### TRBV20–1\*ap01

3049 sequences assigned  
3030 (99.4%) exact matches, in which:  
2996 unique CDR3  
13 unique J



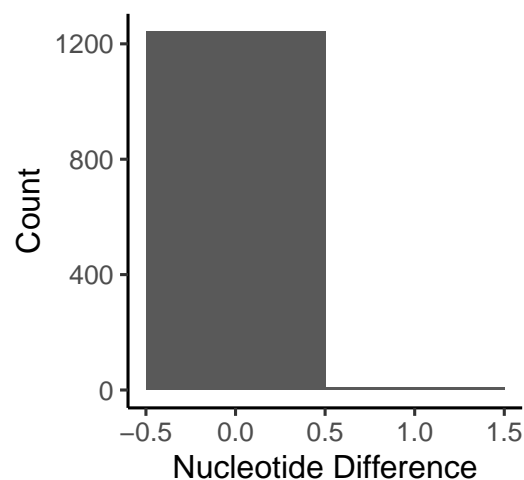
### TRBV10–3\*ap01

1424 sequences assigned  
1413 (99.2%) exact matches, in which:  
1389 unique CDR3  
13 unique J



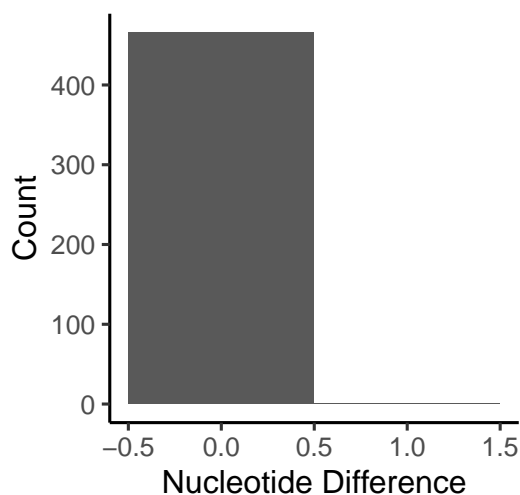
### TRBV14\*ap01

1249 sequences assigned  
1242 (99.4%) exact matches, in which:  
1224 unique CDR3  
13 unique J



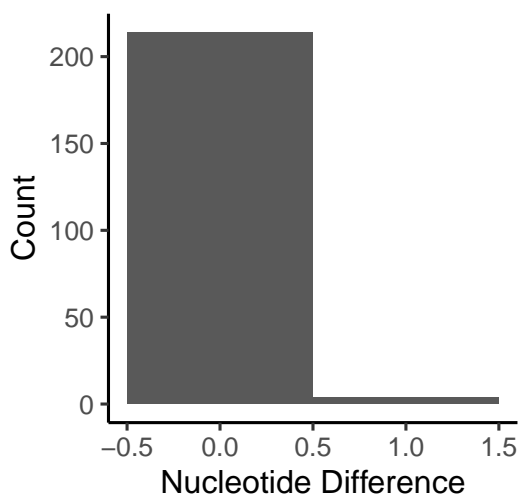
### TRBV20–1\*ap02

467 sequences assigned  
466 (99.8%) exact matches, in which:  
461 unique CDR3  
13 unique J



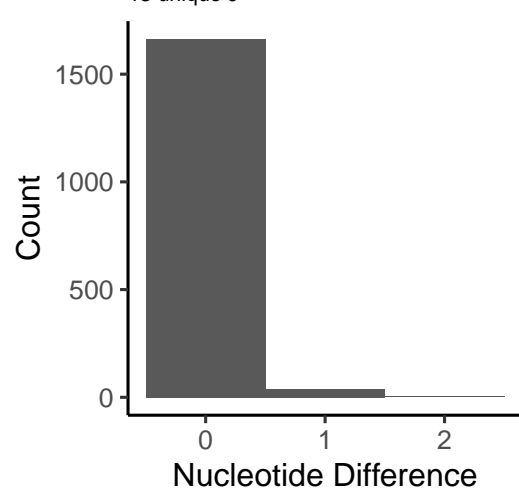
### TRBV1\*ap01

218 sequences assigned  
214 (98.2%) exact matches, in which:  
212 unique CDR3  
13 unique J



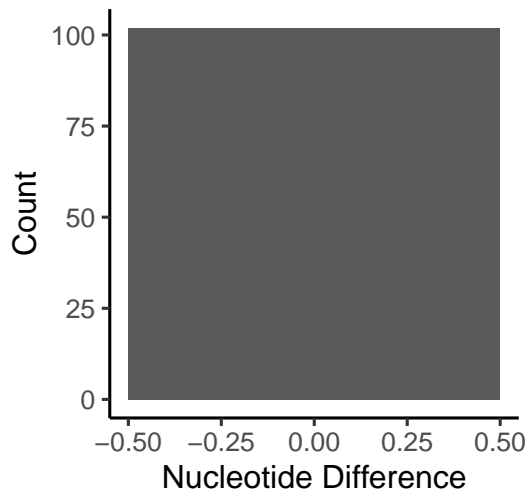
### TRBV15\*ap02

1704 sequences assigned  
1663 (97.6%) exact matches, in which:  
1629 unique CDR3  
13 unique J



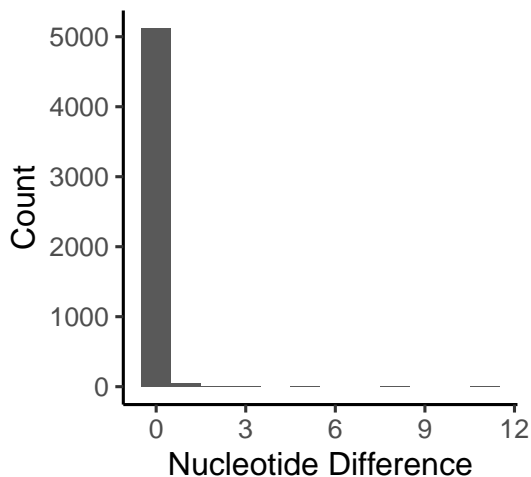
### TRBV16\*ap01

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



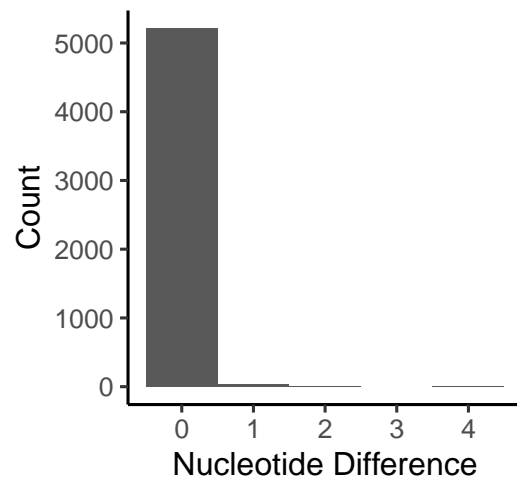
### TRBV19\*ap01

5176 sequences assigned  
5119 (98.9%) exact matches, in which:  
5084 unique CDR3  
13 unique J



### TRBV28\*ap01

5245 sequences assigned  
5212 (99.4%) exact matches, in which:  
5141 unique CDR3  
13 unique J



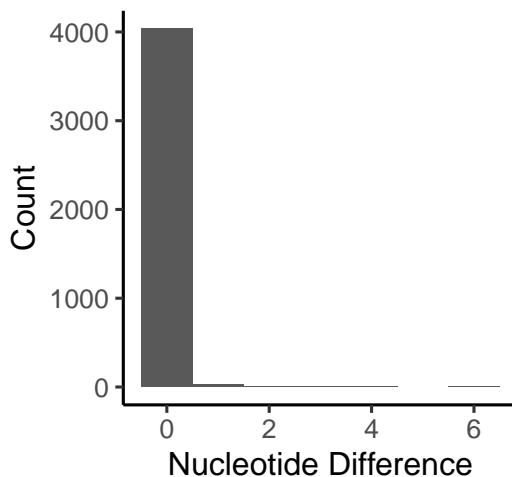
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



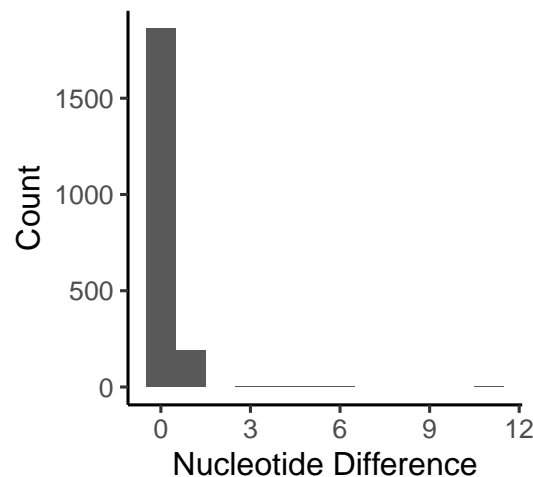
### TRBV2\*ap01

4069 sequences assigned  
4036 (99.2%) exact matches, in which:  
3966 unique CDR3  
13 unique J



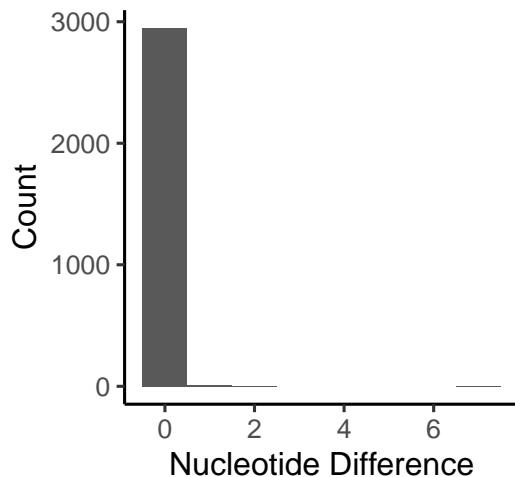
### TRBV30\*ap01

2058 sequences assigned  
1861 (90.4%) exact matches, in which:  
1824 unique CDR3  
13 unique J



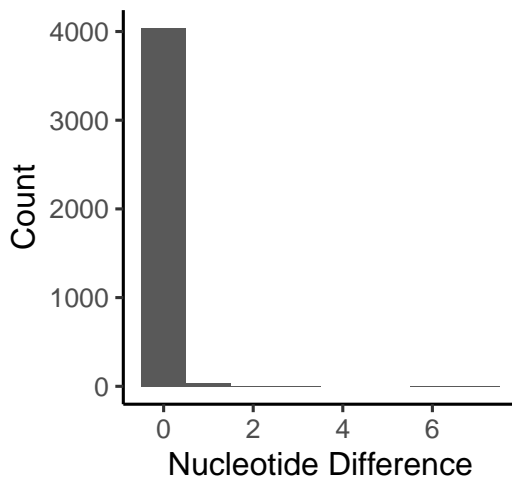
### TRBV18\*ap01

2961 sequences assigned  
2948 (99.6%) exact matches, in which:  
2924 unique CDR3  
13 unique J



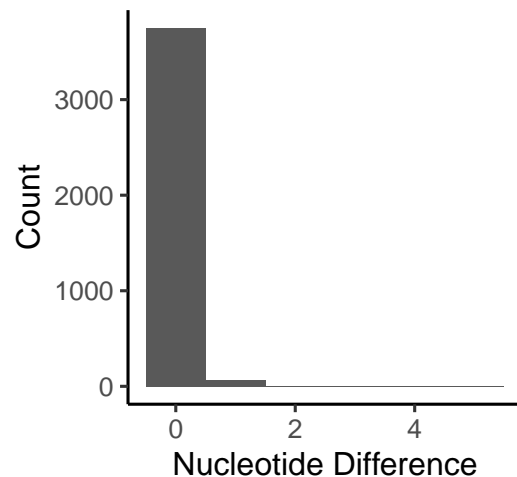
### TRBV27\*ap01

4080 sequences assigned  
4039 (99%) exact matches, in which:  
3984 unique CDR3  
13 unique J



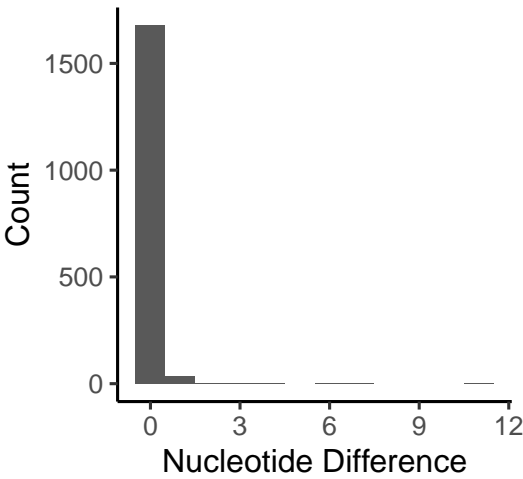
### TRBV9\*ap01

3822 sequences assigned  
3749 (98.1%) exact matches, in which:  
3719 unique CDR3  
13 unique J



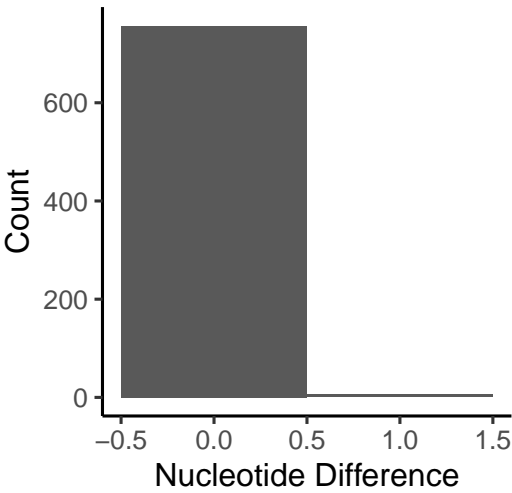
TRBV21-1\*ap01

1725 sequences assigned  
1678 (97.3%) exact matches, in which:  
1666 unique CDR3  
13 unique J



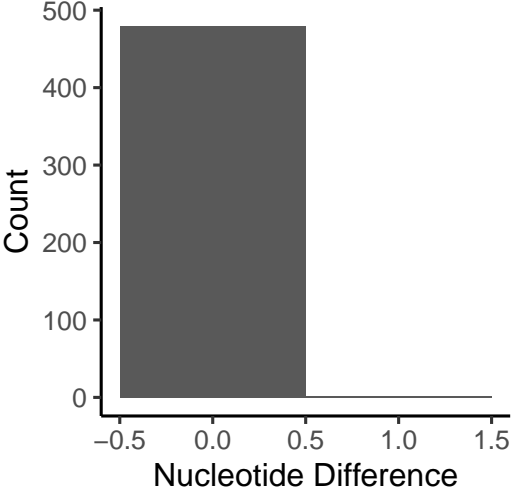
TRBV11-3\*ap01

763 sequences assigned  
757 (99.2%) exact matches, in which:  
752 unique CDR3  
13 unique J



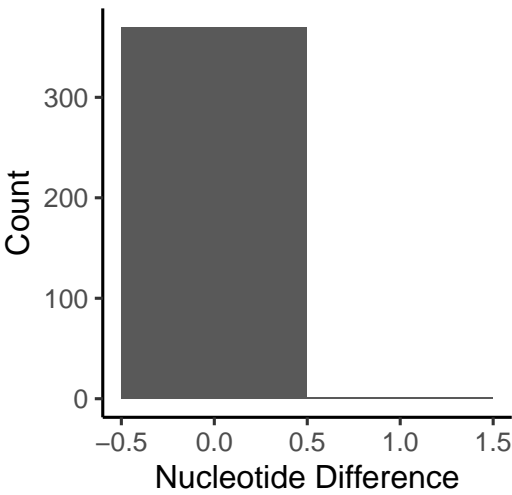
TRBV12-5\*ap01

482 sequences assigned  
480 (99.6%) exact matches, in which:  
475 unique CDR3  
13 unique J



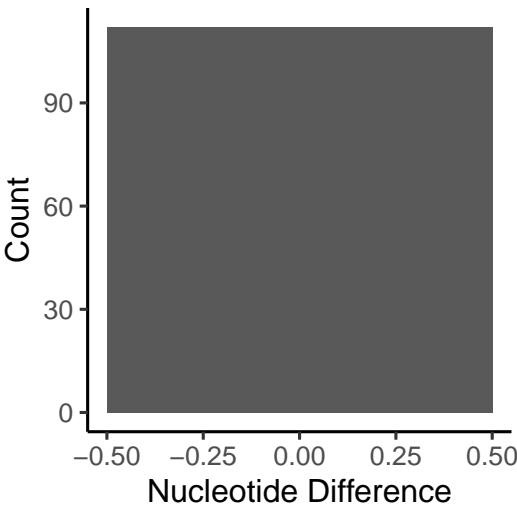
TRBV11-1\*ap01

371 sequences assigned  
370 (99.7%) exact matches, in which:  
366 unique CDR3  
13 unique J



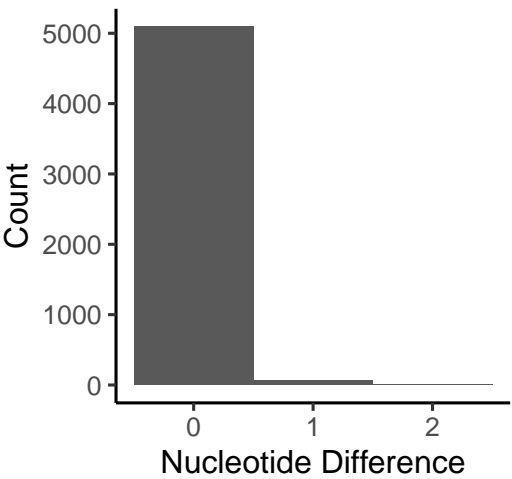
TRBV12-1\*ap01

112 sequences assigned  
112 (100%) exact matches, in which:  
108 unique CDR3  
13 unique J



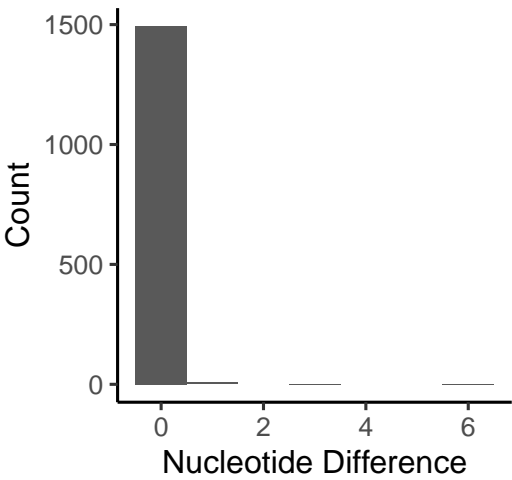
TRBV12-34\*ap01

5156 sequences assigned  
5093 (98.8%) exact matches, in which:  
5021 unique CDR3  
13 unique J



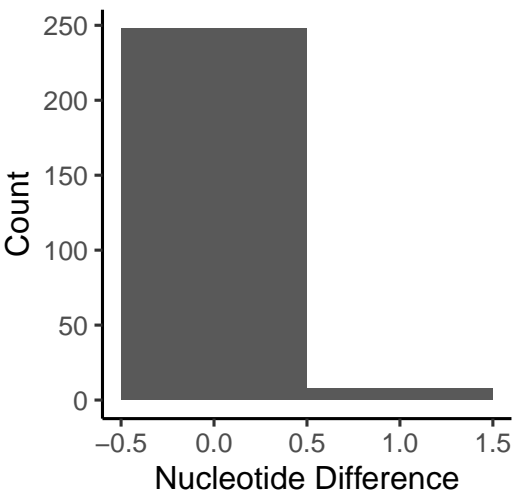
TRBV11-2\*ap01

1505 sequences assigned  
1494 (99.3%) exact matches, in which:  
1479 unique CDR3  
13 unique J



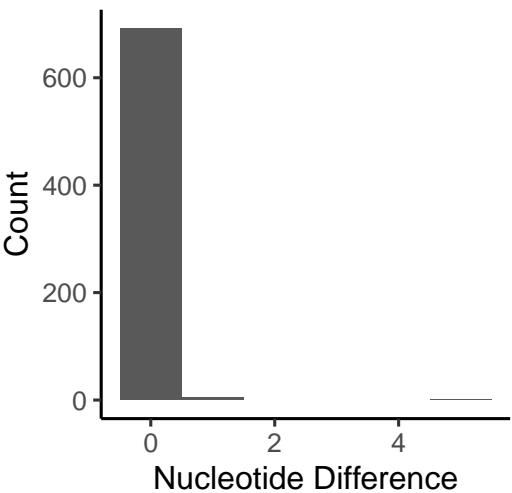
TRBV12-2\*ap01

256 sequences assigned  
248 (96.9%) exact matches, in which:  
243 unique CDR3  
12 unique J



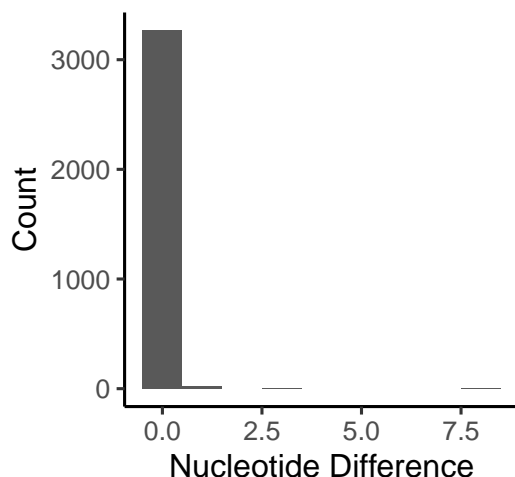
TRBV23-1\*ap01

697 sequences assigned  
692 (99.3%) exact matches, in which:  
679 unique CDR3  
13 unique J



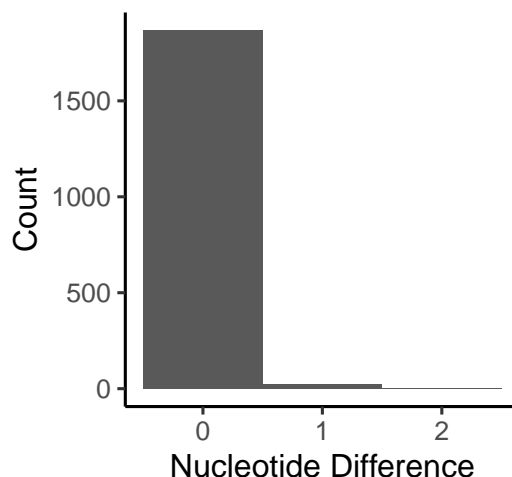
### TRBV3-12\*ap01

3295 sequences assigned  
3267 (99.2%) exact matches, in which:  
3234 unique CDR3  
13 unique J



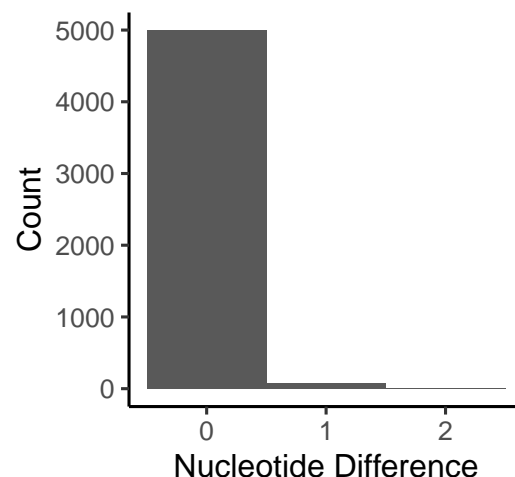
### TRBV4-2\*ap01

1891 sequences assigned  
1867 (98.7%) exact matches, in which:  
1840 unique CDR3  
13 unique J



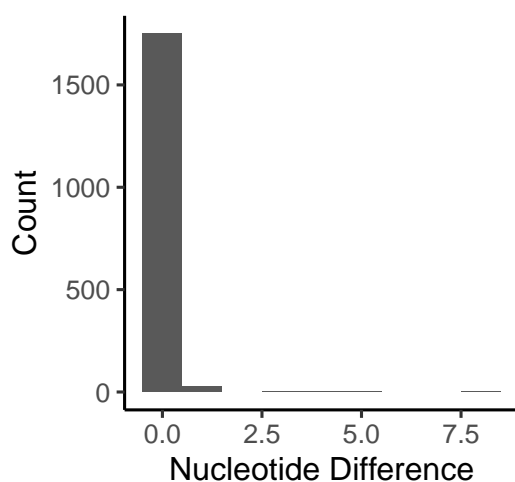
### TRBV5-1\*ap01

5074 sequences assigned  
4995 (98.4%) exact matches, in which:  
4899 unique CDR3  
13 unique J



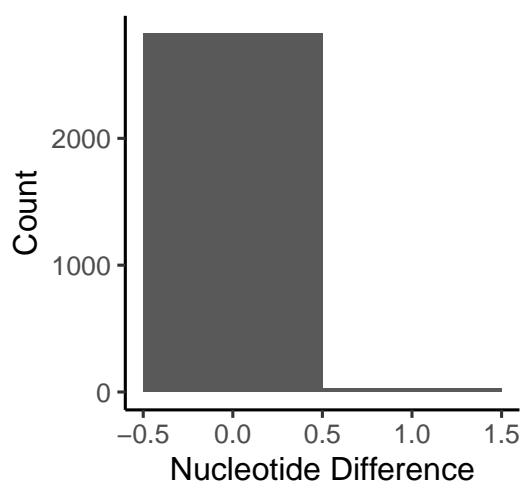
### TRBV24-1\*ap01

1783 sequences assigned  
1750 (98.1%) exact matches, in which:  
1720 unique CDR3  
13 unique J



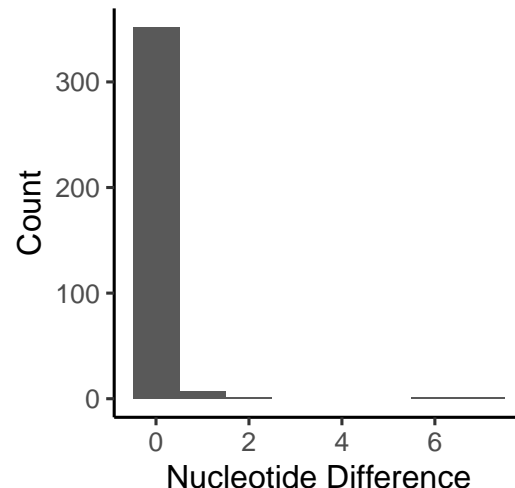
### TRBV4-3\*ap01

2855 sequences assigned  
2825 (98.9%) exact matches, in which:  
2771 unique CDR3  
13 unique J



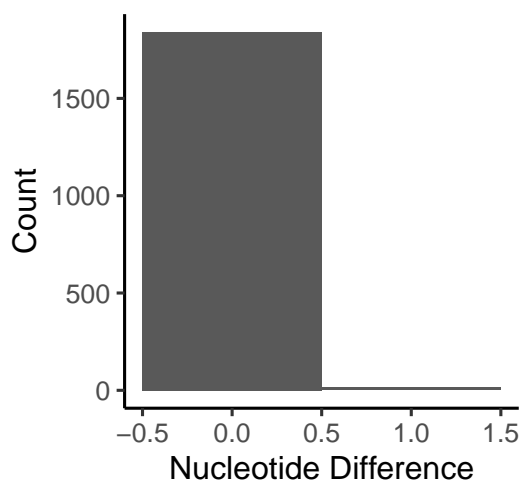
### TRBV5-3\*ap01

362 sequences assigned  
352 (97.2%) exact matches, in which:  
348 unique CDR3  
13 unique J



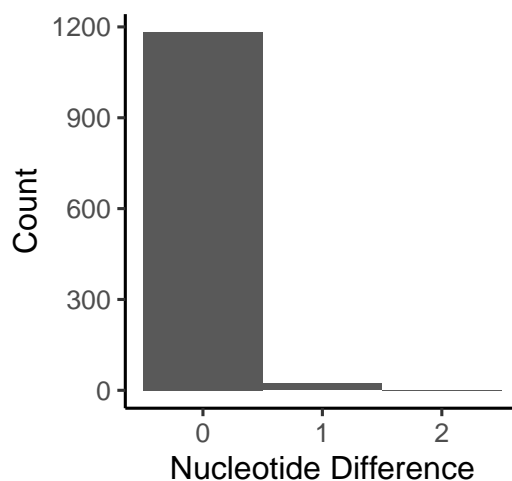
### TRBV4-1\*ap01

1855 sequences assigned  
1841 (99.2%) exact matches, in which:  
1813 unique CDR3  
13 unique J



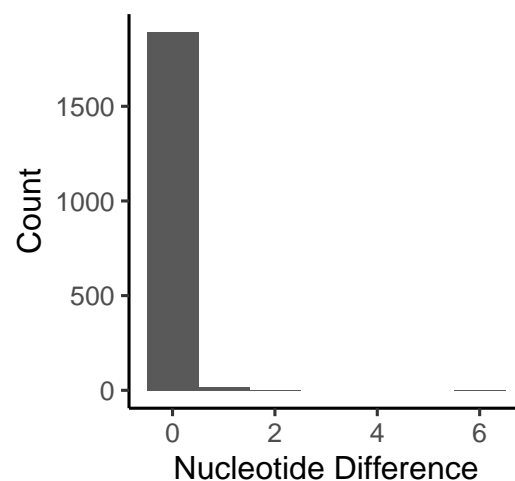
### TRBV25-1\*ap01

1207 sequences assigned  
1183 (98%) exact matches, in which:  
1146 unique CDR3  
13 unique J



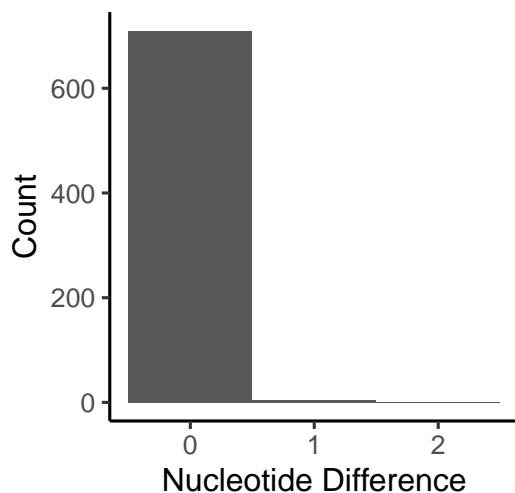
### TRBV5-4\*ap01

1911 sequences assigned  
1892 (99%) exact matches, in which:  
1854 unique CDR3  
13 unique J



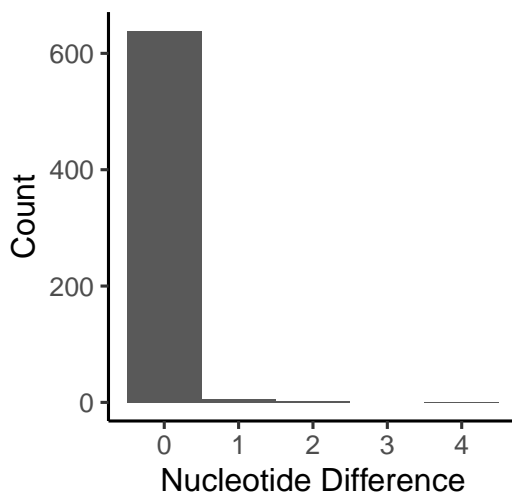
### TRBV5-5\*ap01

715 sequences assigned  
710 (99.3%) exact matches, in which:  
701 unique CDR3  
13 unique J



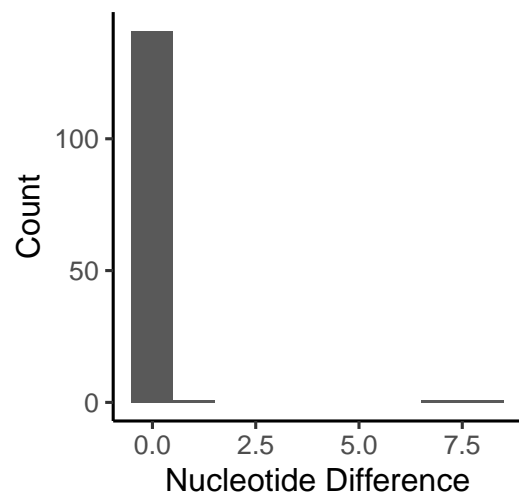
### TRBV5-8\*ap01

648 sequences assigned  
639 (98.6%) exact matches, in which:  
633 unique CDR3  
13 unique J



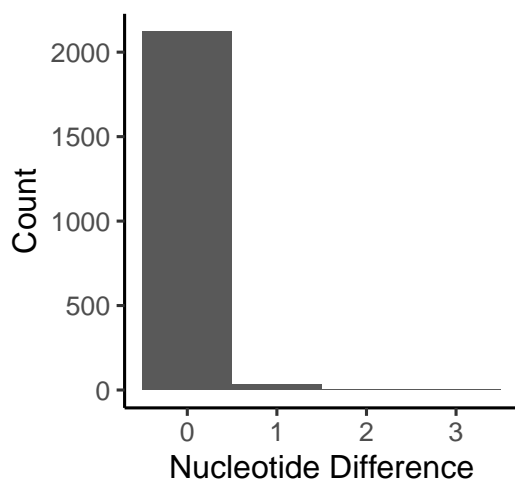
### TRBV6-7\*ap01

144 sequences assigned  
141 (97.9%) exact matches, in which:  
139 unique CDR3  
13 unique J



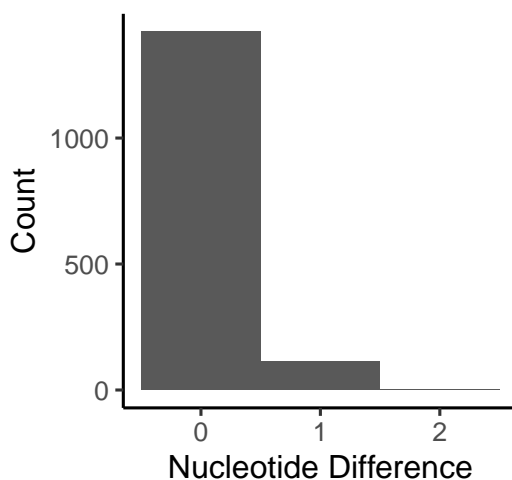
### TRBV5-6\*ap01

2156 sequences assigned  
2121 (98.4%) exact matches, in which:  
2063 unique CDR3  
13 unique J



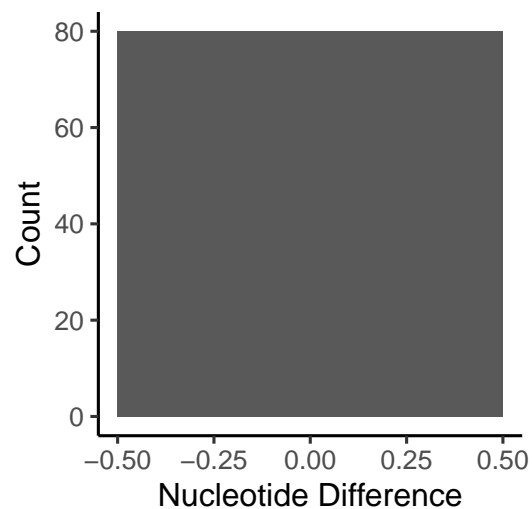
### TRBV6-1\*ap01

1539 sequences assigned  
1422 (92.4%) exact matches, in which:  
1389 unique CDR3  
13 unique J



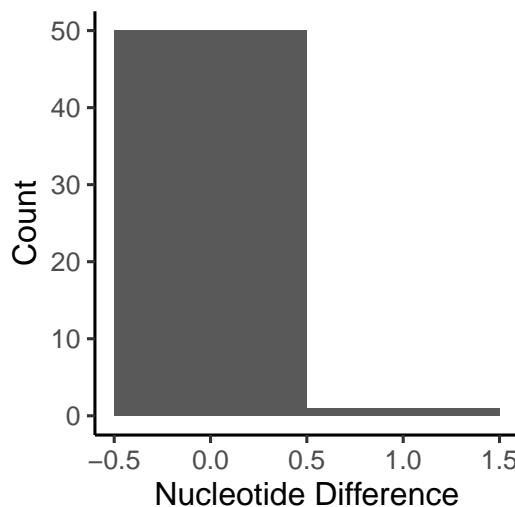
### TRBV6-8\*ap01

80 sequences assigned  
80 (100%) exact matches, in which:  
80 unique CDR3  
12 unique J



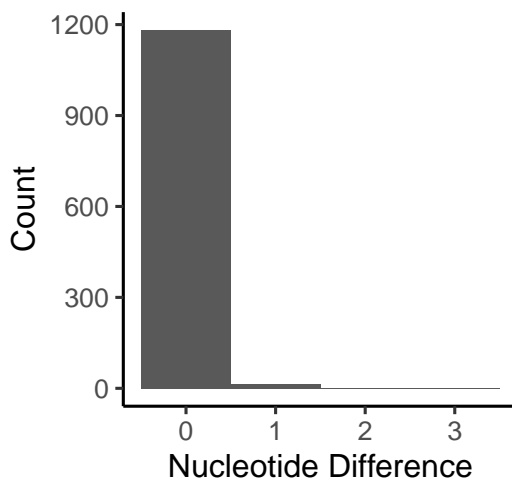
### TRBV5-7\*ap01

51 sequences assigned  
50 (98%) exact matches, in which:  
47 unique CDR3  
12 unique J



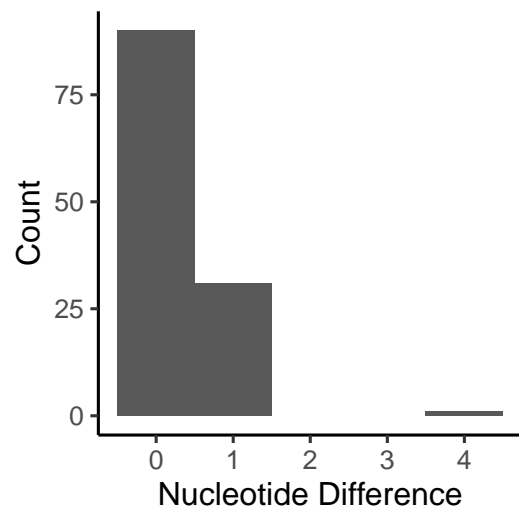
### TRBV6-4\*ap01

1198 sequences assigned  
1182 (98.7%) exact matches, in which:  
1160 unique CDR3  
13 unique J



### TRBV6-9\*ap01

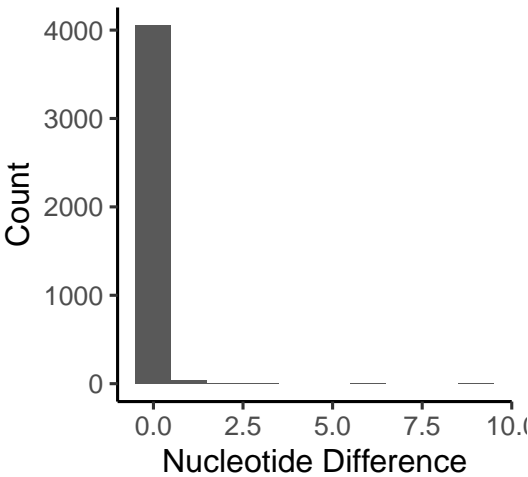
122 sequences assigned  
90 (73.8%) exact matches, in which:  
86 unique CDR3  
13 unique J





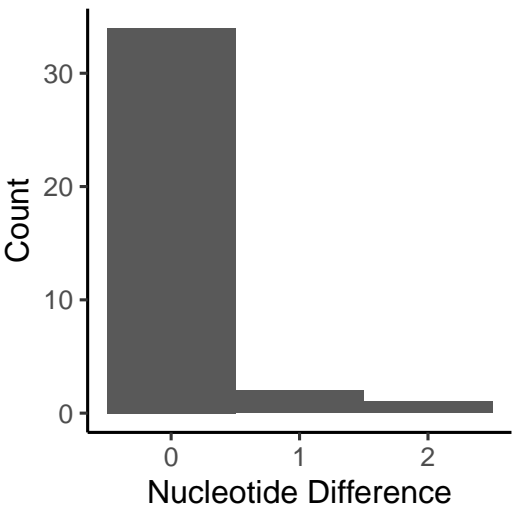
TRBV6-23\*ap01

4097 sequences assigned  
4053 (98.9%) exact matches, in which:  
3961 unique CDR3  
13 unique J



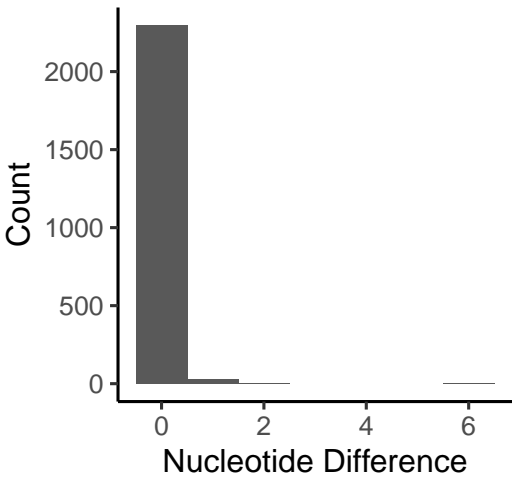
TRBV7-1\*ap01\_G291C\_T

37 sequences assigned  
34 (91.9%) exact matches, in which:  
34 unique CDR3  
8 unique J



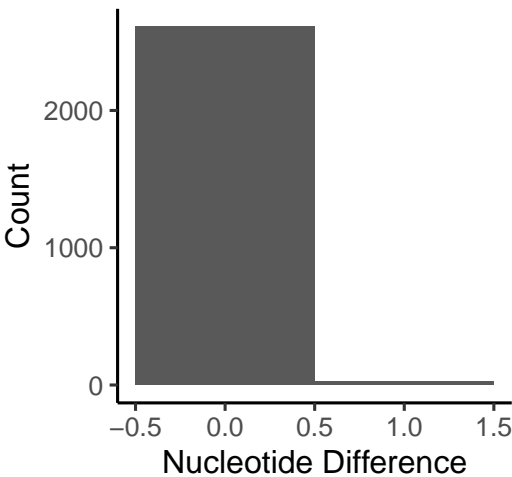
TRBV7-3\*ap01

2330 sequences assigned  
2296 (98.5%) exact matches, in which:  
2277 unique CDR3  
14 unique J



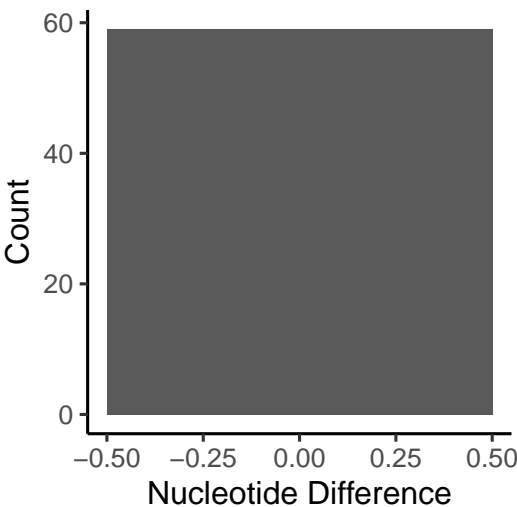
TRBV6-56\*ap01

2638 sequences assigned  
2610 (98.9%) exact matches, in which:  
2569 unique CDR3  
13 unique J



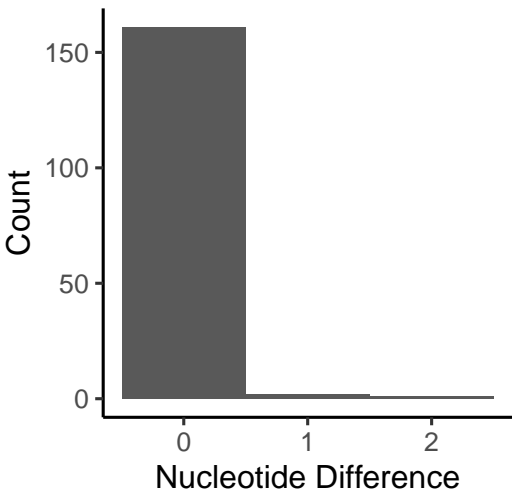
TRBV7-1\*ap01\_G291C\_T

59 sequences assigned  
59 (100%) exact matches, in which:  
58 unique CDR3  
12 unique J



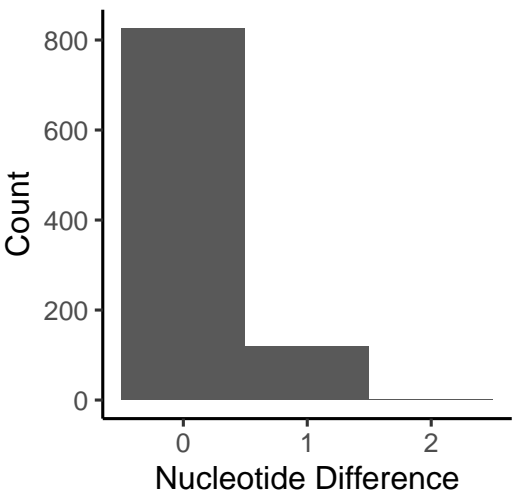
TRBV7-4\*ap01

164 sequences assigned  
161 (98.2%) exact matches, in which:  
157 unique CDR3  
13 unique J



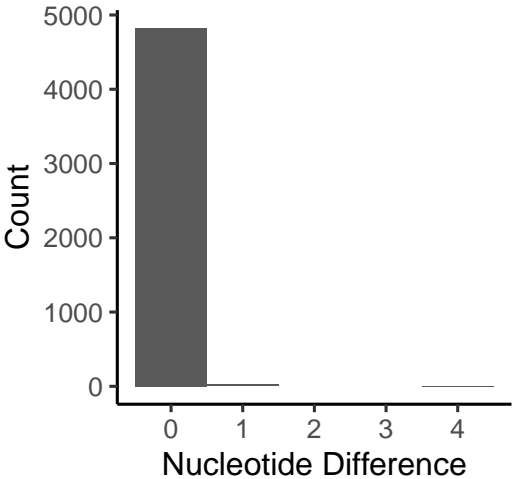
TRBV6-56\*ap02

946 sequences assigned  
826 (87.3%) exact matches, in which:  
814 unique CDR3  
13 unique J



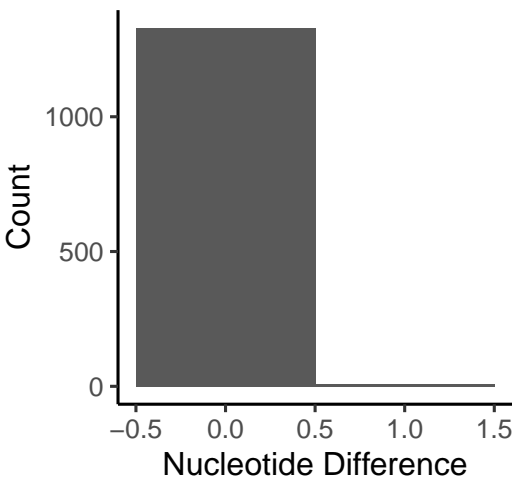
TRBV7-2\*ap01

4850 sequences assigned  
4824 (99.5%) exact matches, in which:  
4760 unique CDR3  
13 unique J



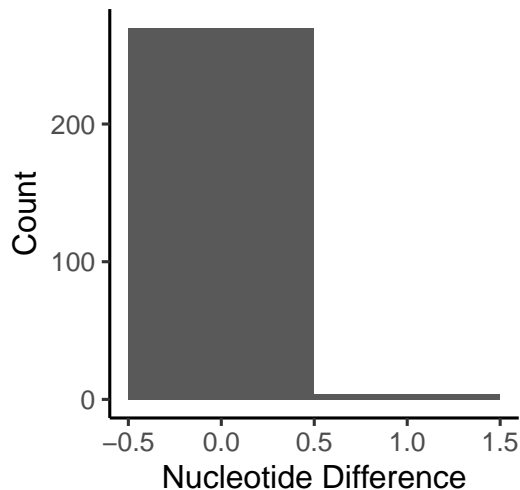
TRBV7-6\*ap01

1337 sequences assigned  
1329 (99.4%) exact matches, in which:  
1312 unique CDR3  
13 unique J



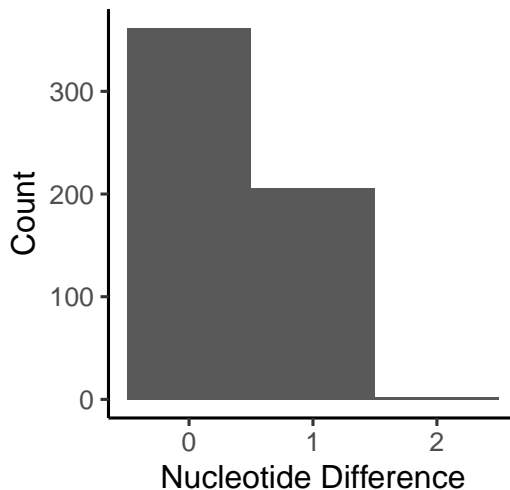
### TRBV7-7\*ap01

274 sequences assigned  
270 (98.5%) exact matches, in which:  
269 unique CDR3  
13 unique J



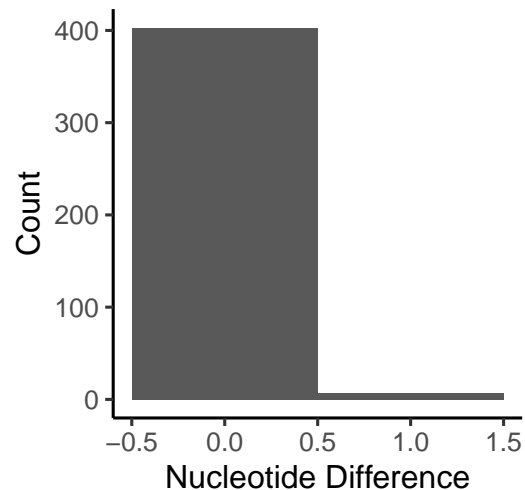
### TRBV7-8\*ap03

570 sequences assigned  
362 (63.5%) exact matches, in which:  
359 unique CDR3  
13 unique J



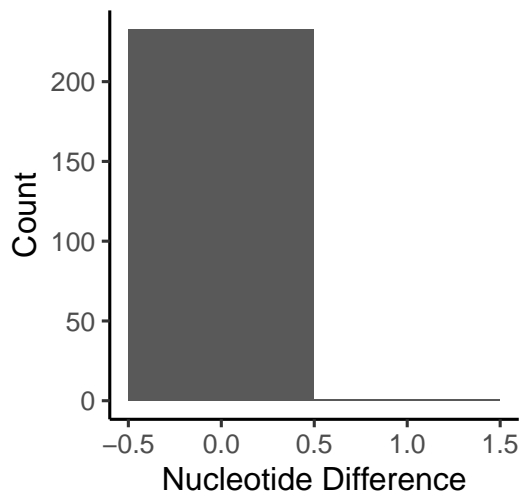
### TRBV29-1\*ap02

410 sequences assigned  
403 (98.3%) exact matches, in which:  
391 unique CDR3  
13 unique J



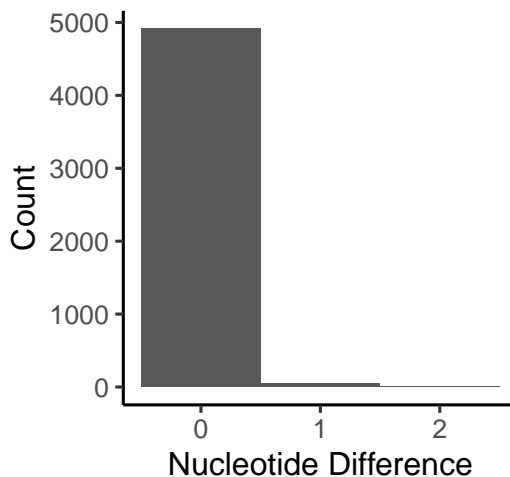
### TRBV7-7\*ap01\_C315T

234 sequences assigned  
233 (99.6%) exact matches, in which:  
230 unique CDR3  
12 unique J



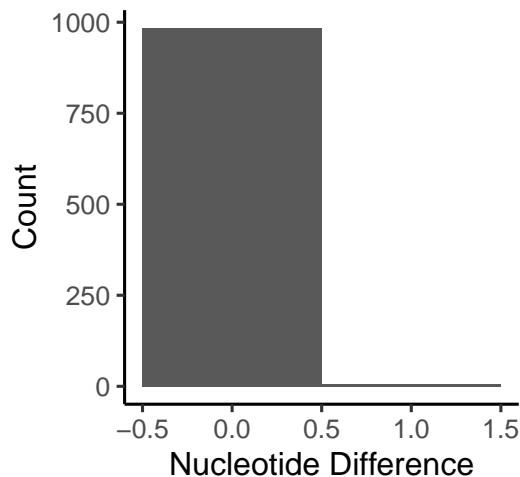
### TRBV7-9\*ap01

4968 sequences assigned  
4914 (98.9%) exact matches, in which:  
4843 unique CDR3  
13 unique J



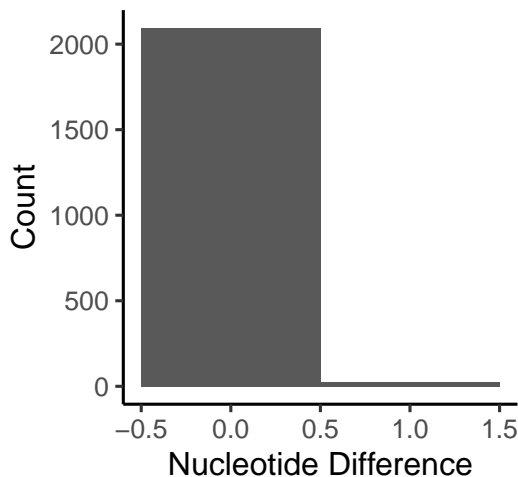
### TRBV7-8\*ap01

990 sequences assigned  
984 (99.4%) exact matches, in which:  
966 unique CDR3  
13 unique J

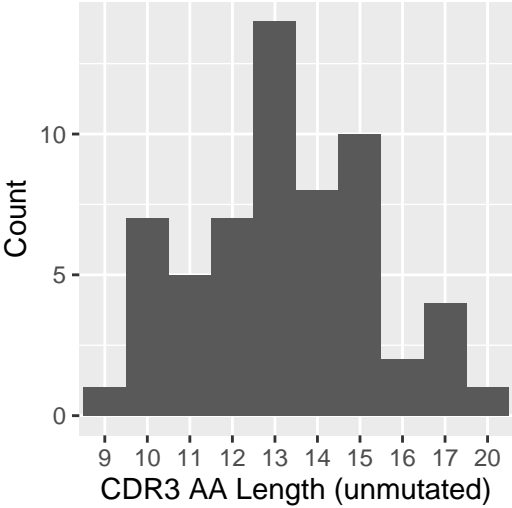


### TRBV29-1\*ap01

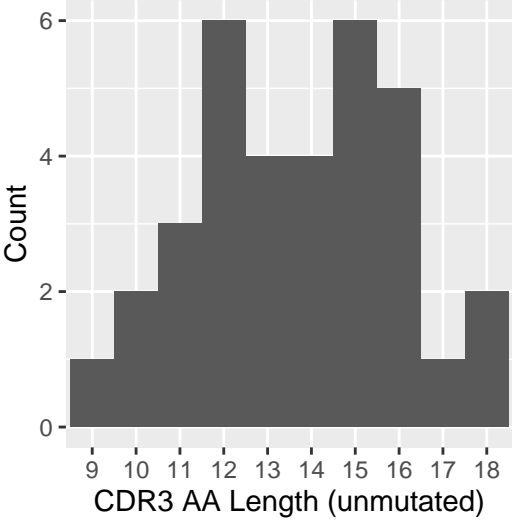
2118 sequences assigned  
2094 (98.9%) exact matches, in which:  
2037 unique CDR3  
13 unique J



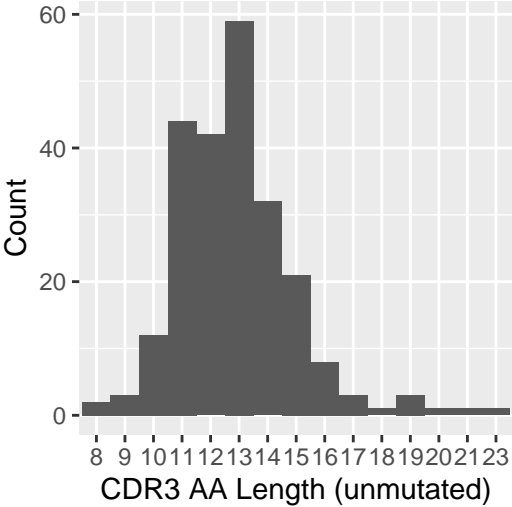
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]