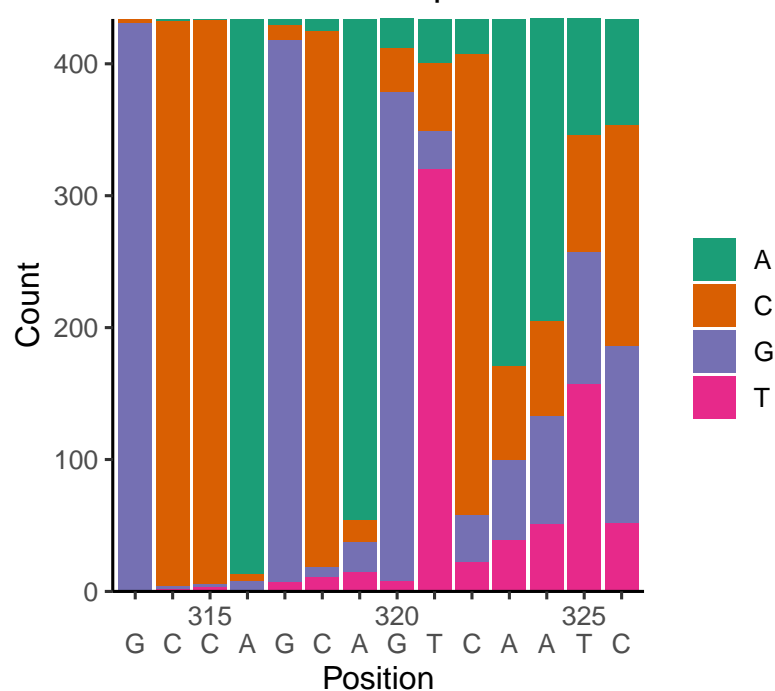
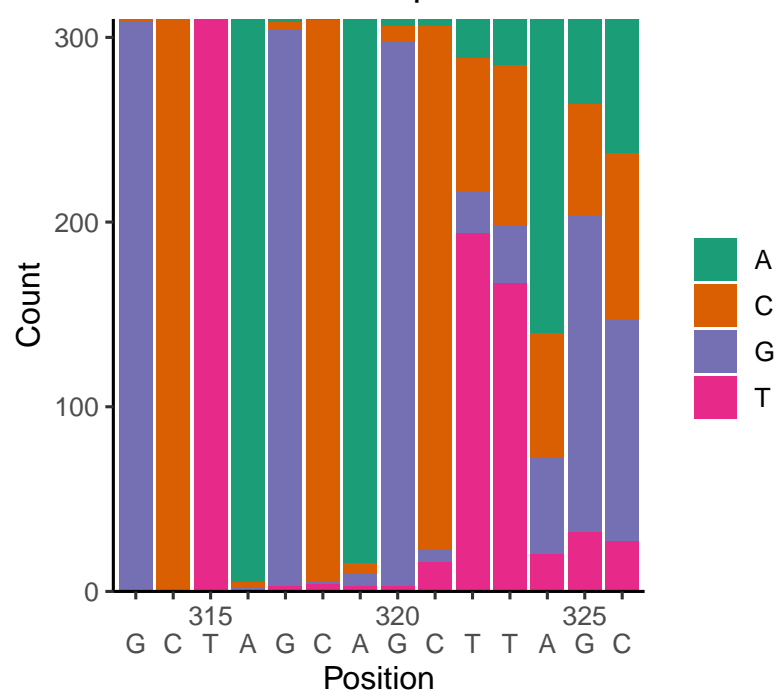


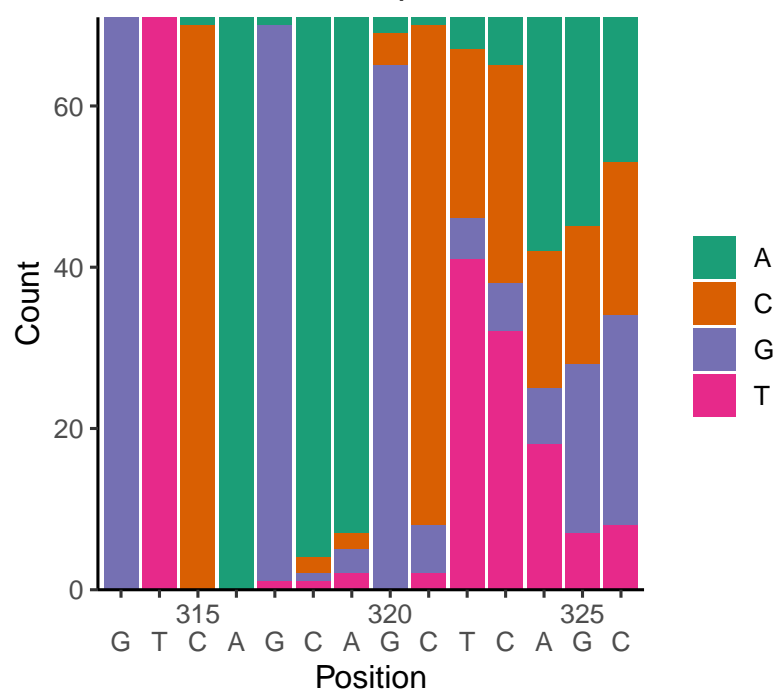
Gene TRBV23-1\*ap01\_T304C



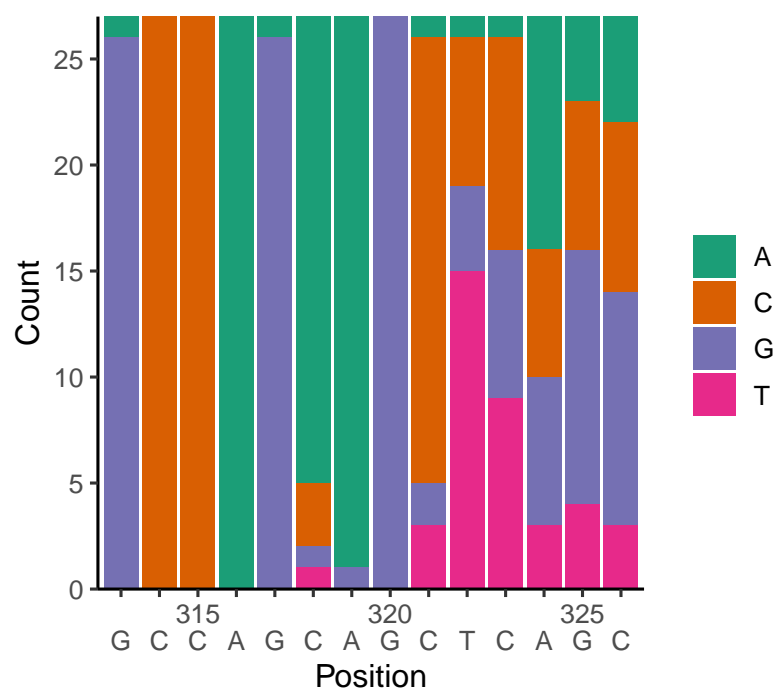
Gene TRBV7-7\*ap01\_C315T



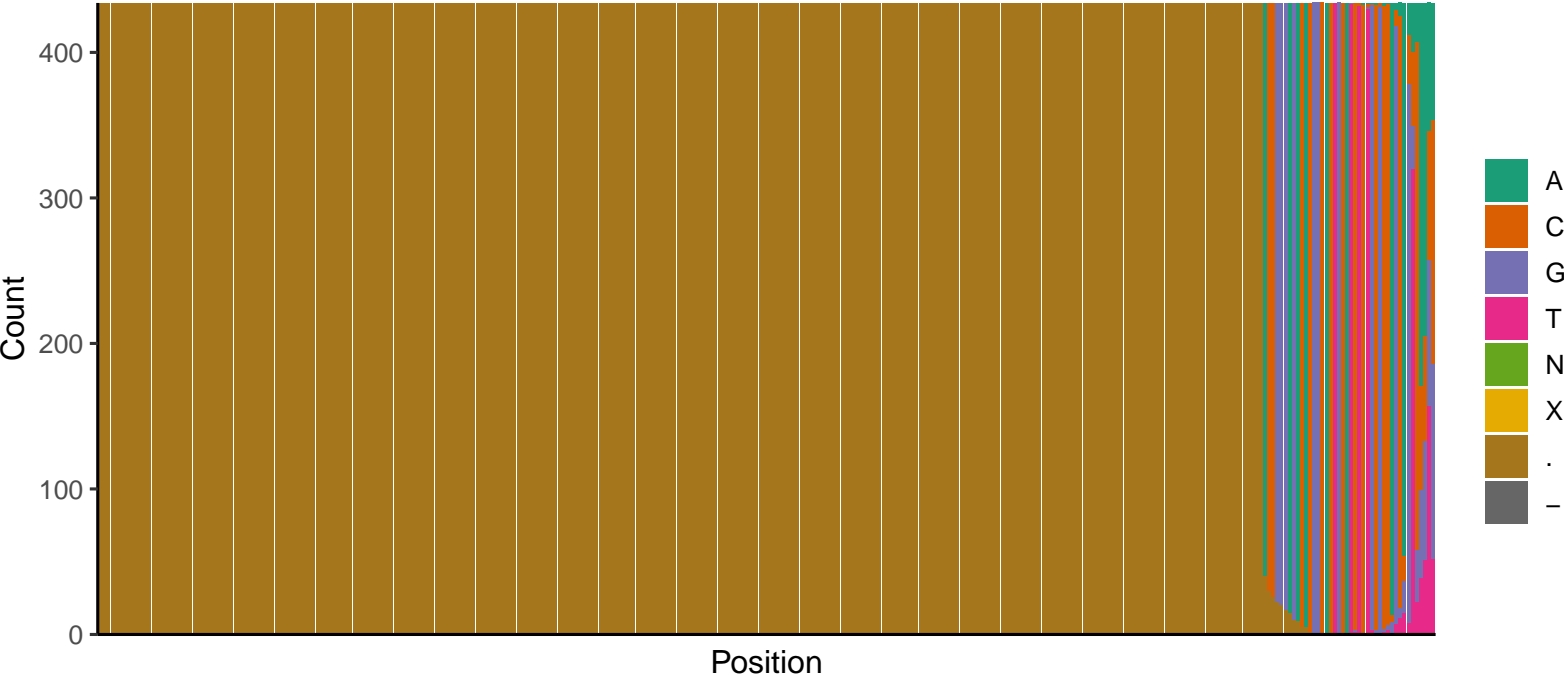
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



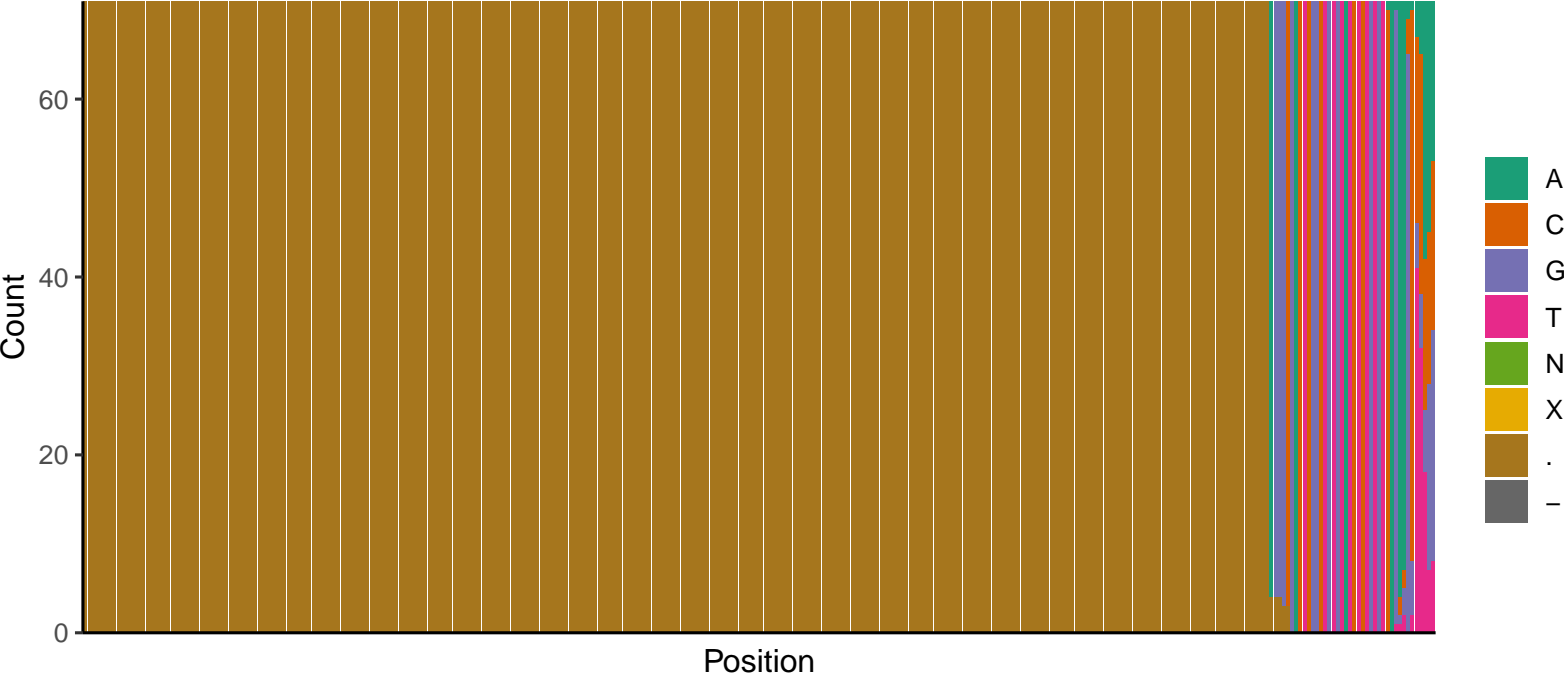
Gene TRBV7-1\*ap01\_G291C\_T296C



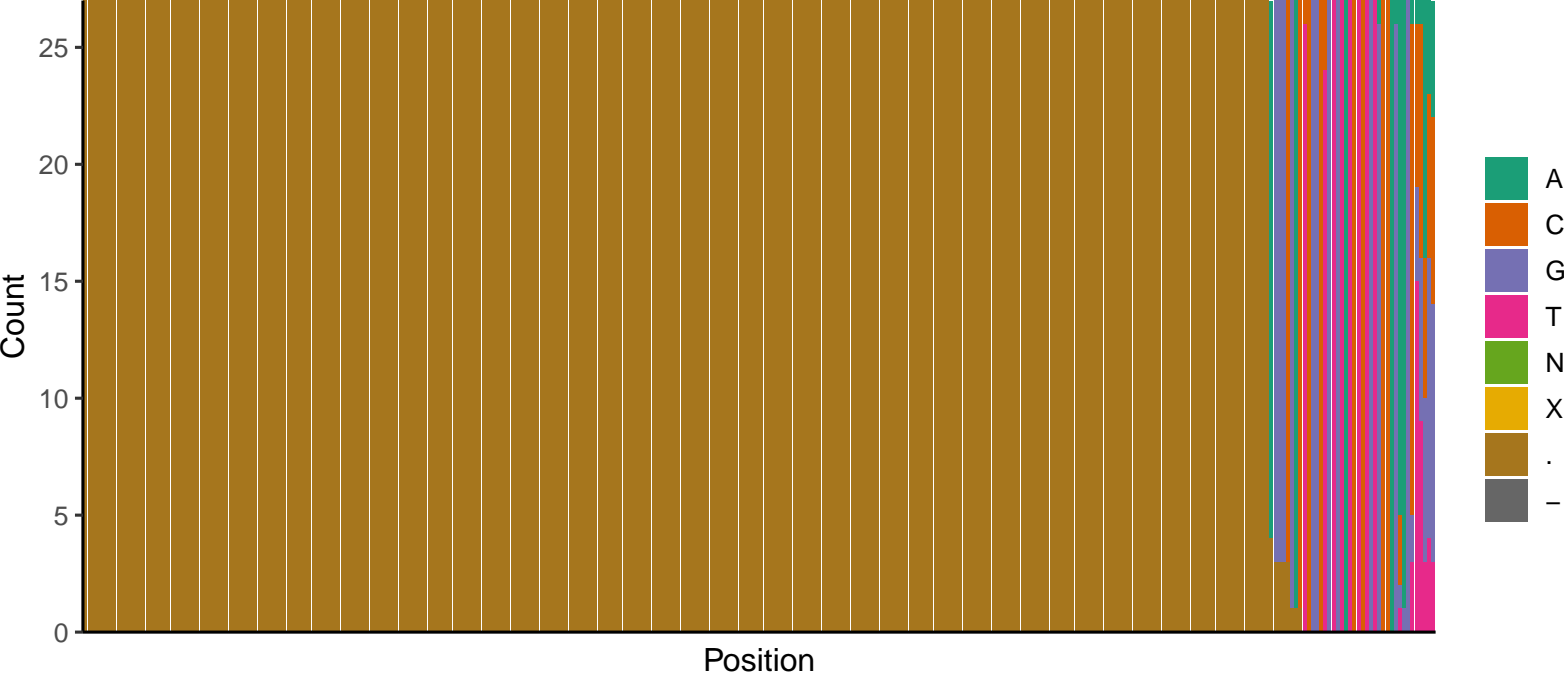
Gene TRBV23-1\*ap01\_T304C



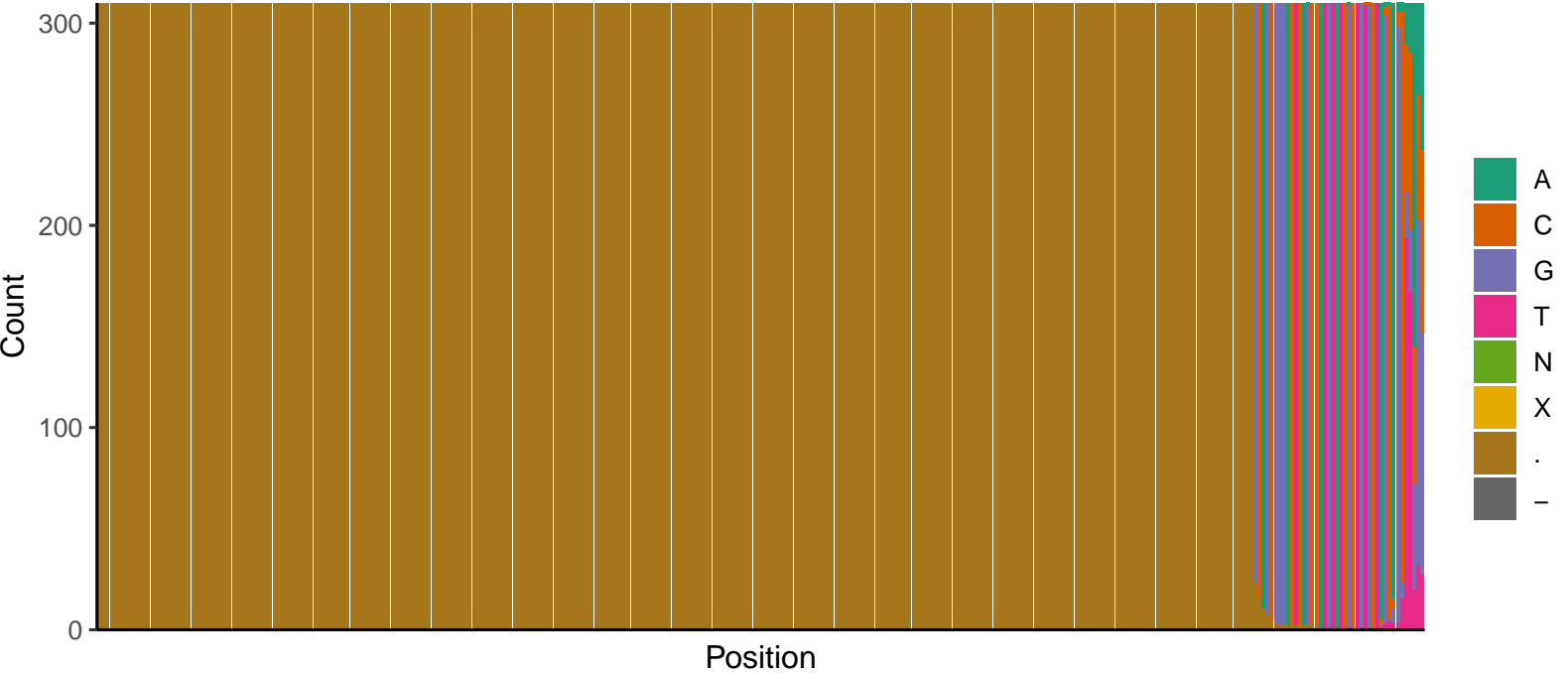
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



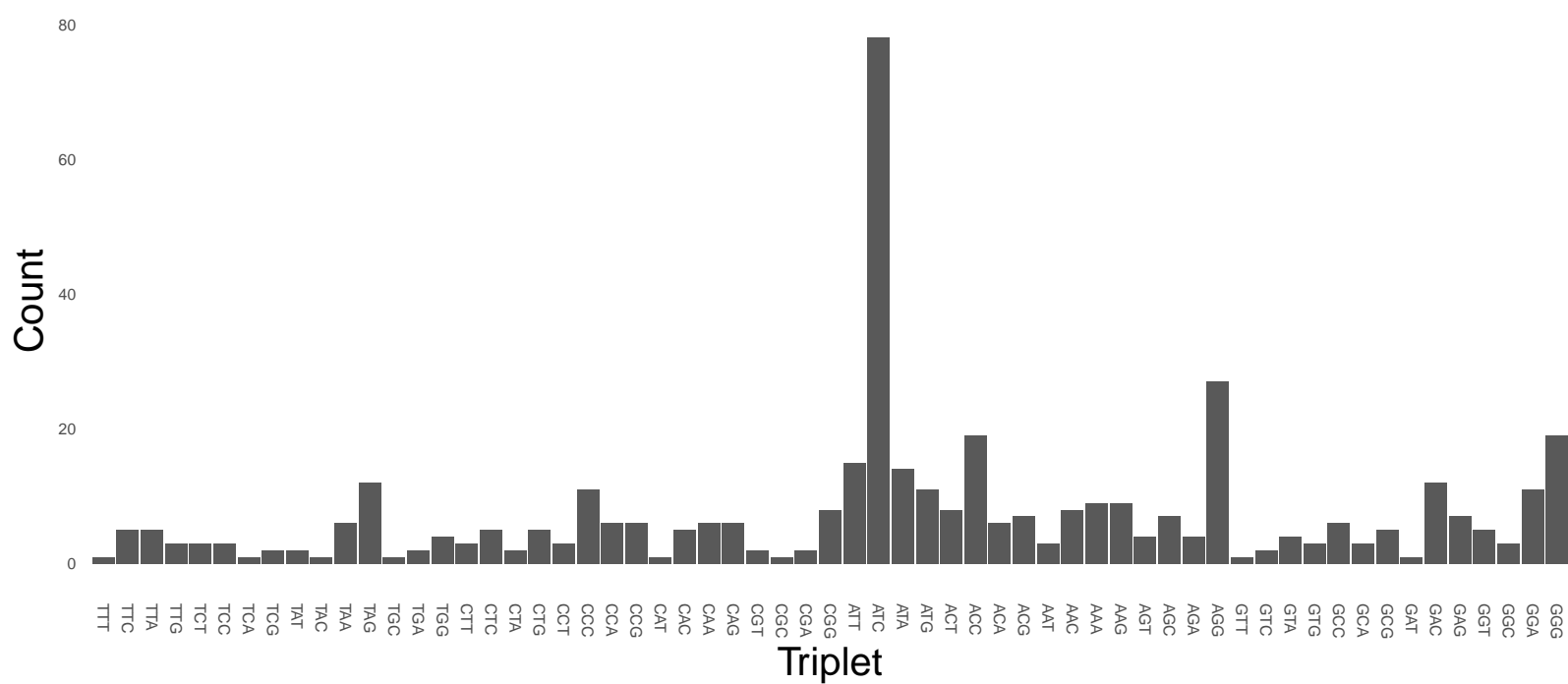
Gene TRBV7-1\*ap01\_G291C\_T296C



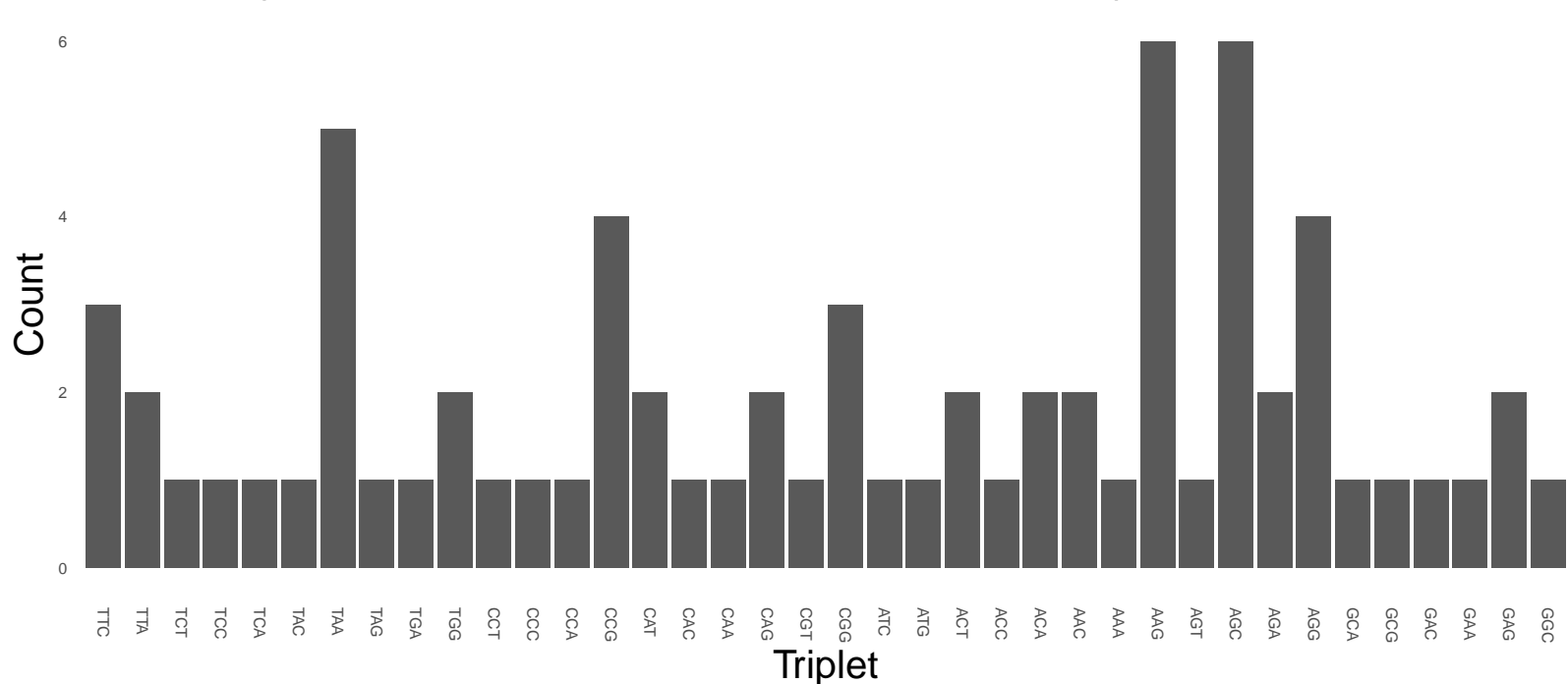
Gene TRBV7-7\*ap01\_C315T



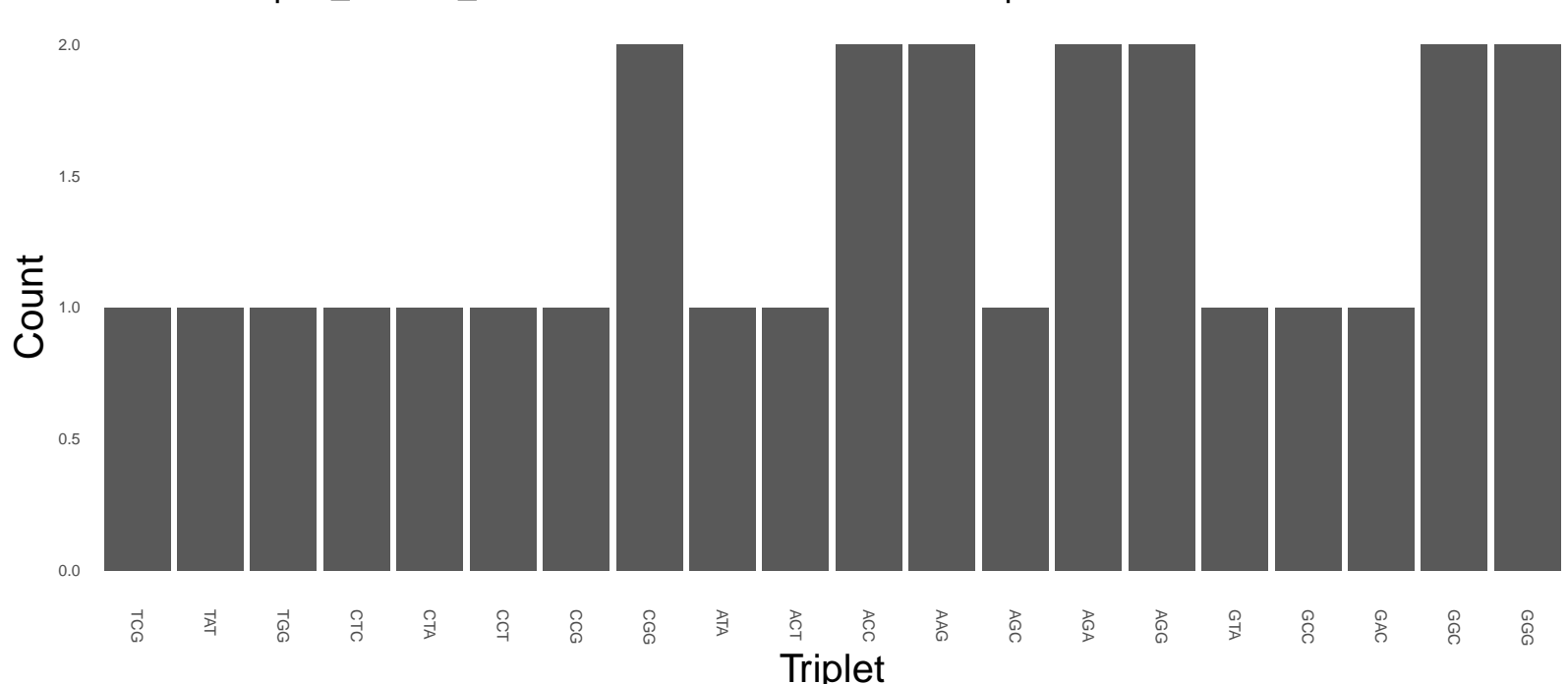
TRBV23-1\*ap01\_T304C- Final 3 nucleotides as a triplet

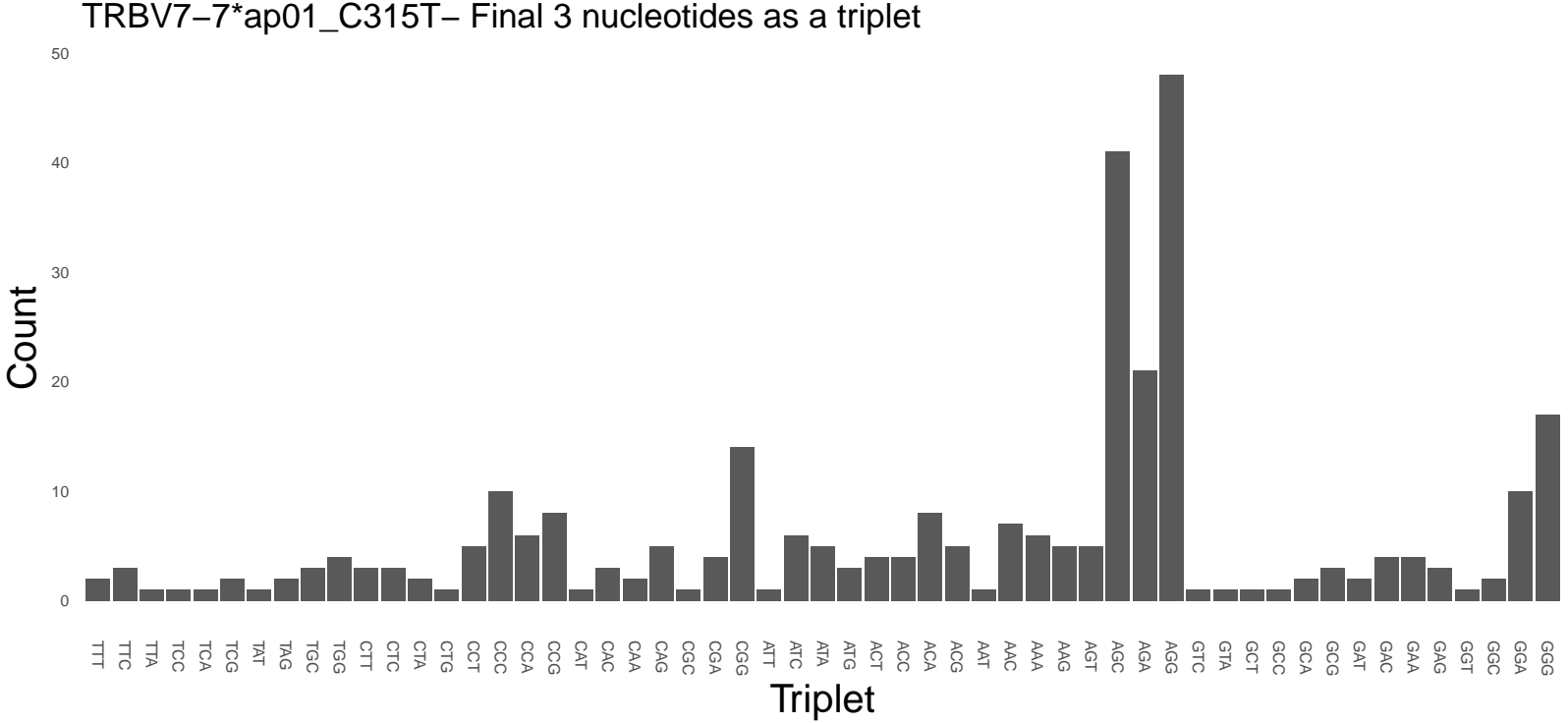


TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



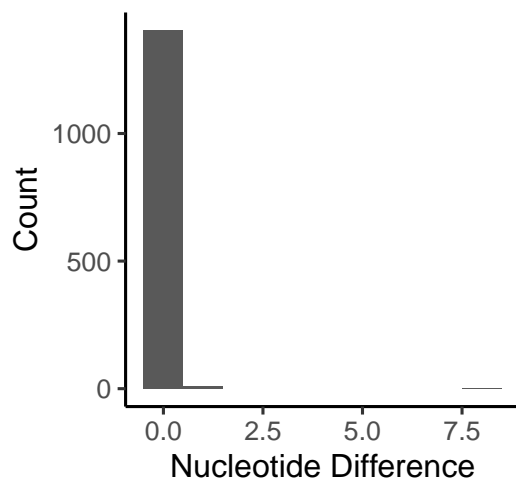
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet





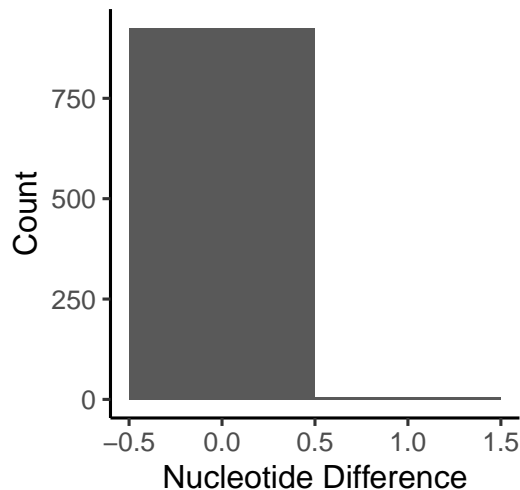
### TRBV10-1\*ap01

1416 sequences assigned  
1404 (99.2%) exact matches, in which:  
1360 unique CDR3  
13 unique J



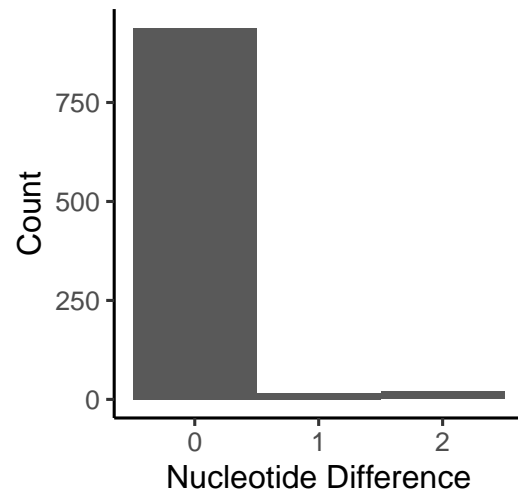
### TRBV10-2\*ap01

932 sequences assigned  
926 (99.4%) exact matches, in which:  
913 unique CDR3  
13 unique J



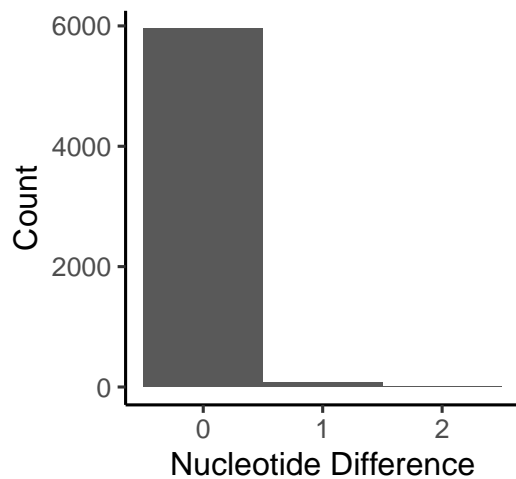
### TRBV13\*ap01

976 sequences assigned  
939 (96.2%) exact matches, in which:  
915 unique CDR3  
13 unique J



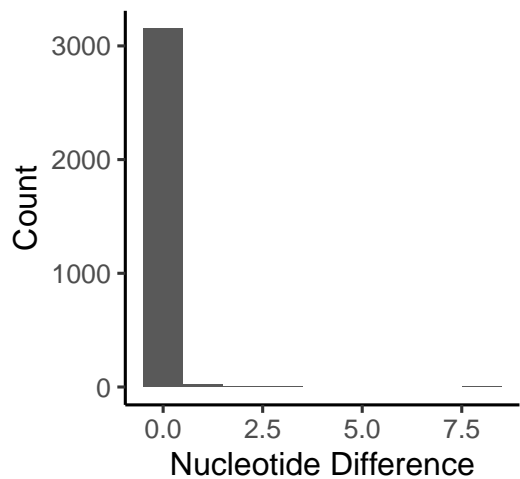
### TRBV20-1\*ap01

6026 sequences assigned  
5953 (98.8%) exact matches, in which:  
5864 unique CDR3  
13 unique J



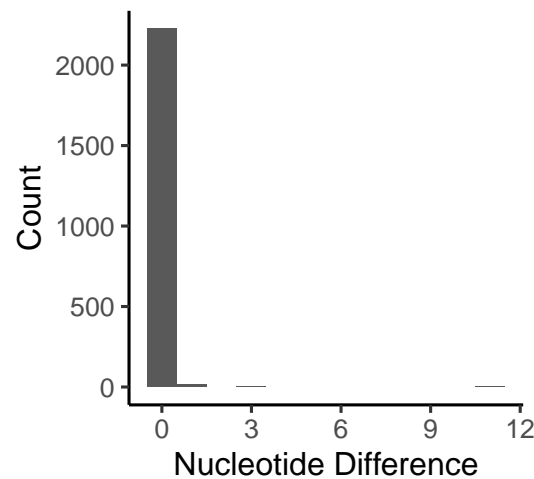
### TRBV10-3\*ap01

3173 sequences assigned  
3151 (99.3%) exact matches, in which:  
3095 unique CDR3  
13 unique J



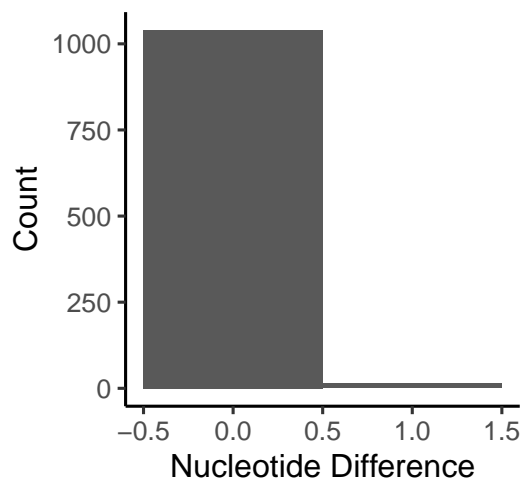
### TRBV14\*ap01

2241 sequences assigned  
2226 (99.3%) exact matches, in which:  
2193 unique CDR3  
13 unique J



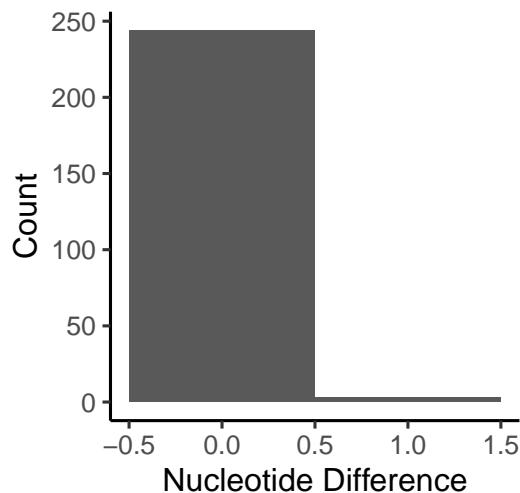
### TRBV20-1\*ap02

1054 sequences assigned  
1040 (98.7%) exact matches, in which:  
1018 unique CDR3  
13 unique J



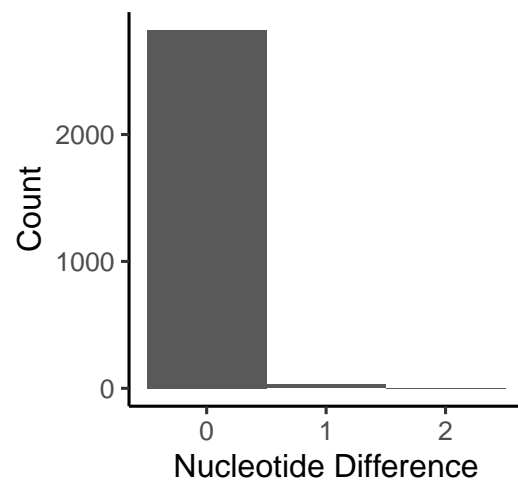
### TRBV1\*ap01

247 sequences assigned  
244 (98.8%) exact matches, in which:  
237 unique CDR3  
13 unique J



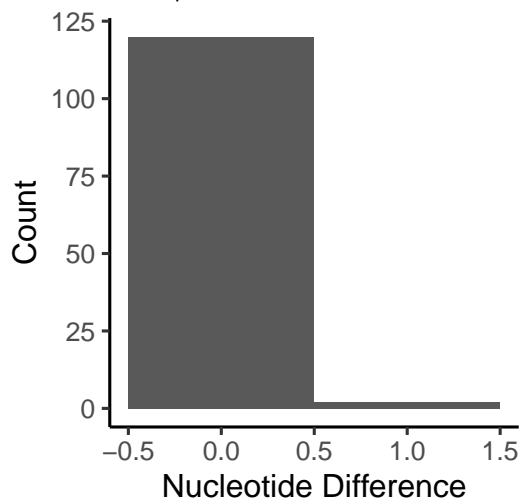
### TRBV15\*ap02

2853 sequences assigned  
2823 (98.9%) exact matches, in which:  
2757 unique CDR3  
13 unique J



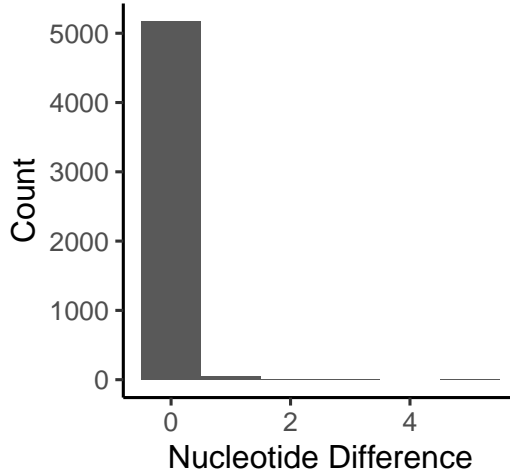
### TRBV16\*ap01

122 sequences assigned  
120 (98.4%) exact matches, in which:  
119 unique CDR3  
11 unique J



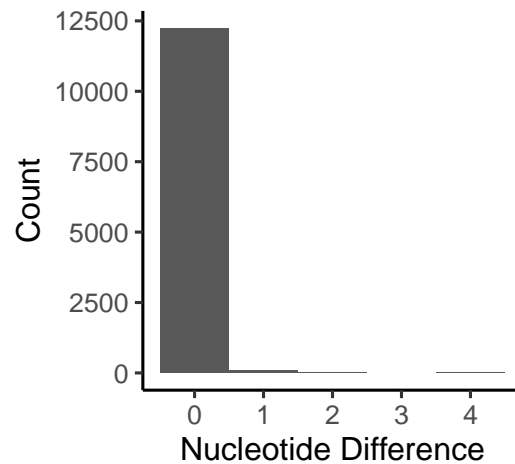
### TRBV2\*ap01

5223 sequences assigned  
5171 (99%) exact matches, in which:  
5033 unique CDR3  
13 unique J



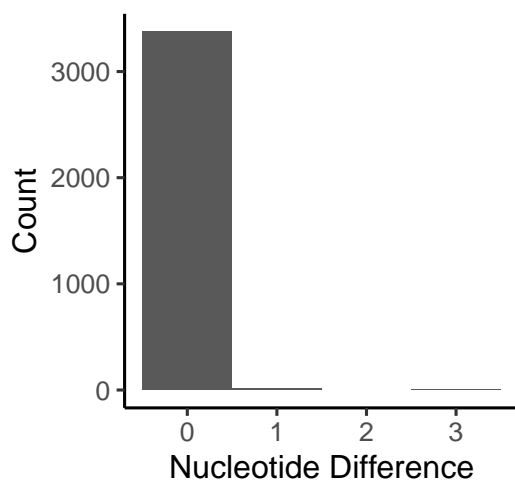
### TRBV28\*ap01

12336 sequences assigned  
12242 (99.2%) exact matches, in which:  
12096 unique CDR3  
13 unique J



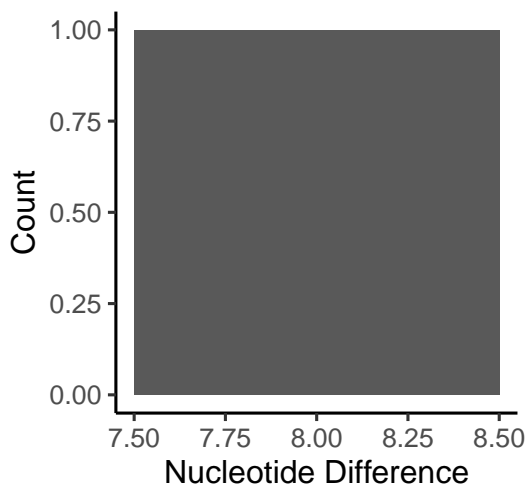
### TRBV18\*ap01

3390 sequences assigned  
3375 (99.6%) exact matches, in which:  
3355 unique CDR3  
13 unique J



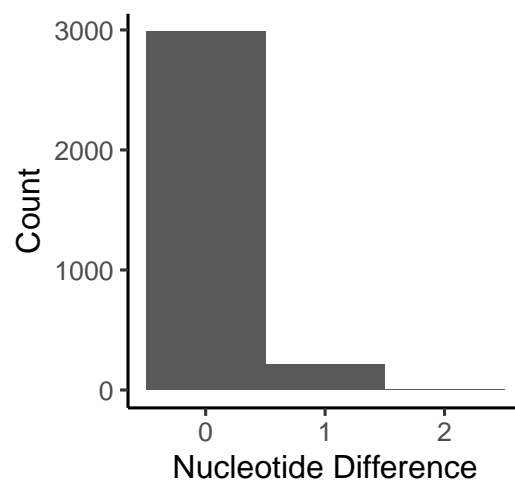
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



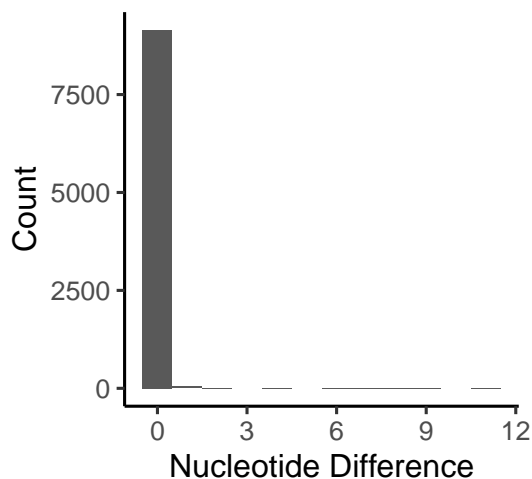
### TRBV30\*ap01

3205 sequences assigned  
2985 (93.1%) exact matches, in which:  
2933 unique CDR3  
13 unique J



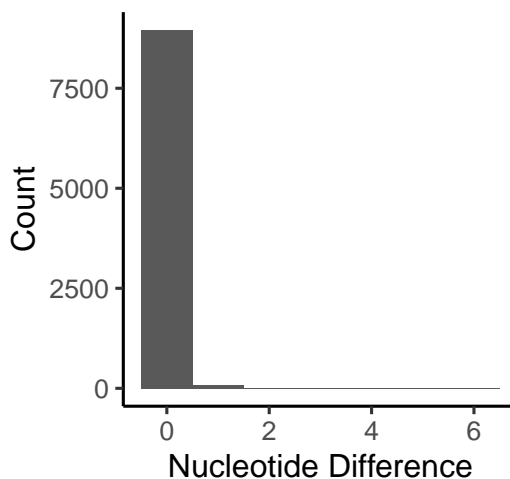
### TRBV19\*ap01

9210 sequences assigned  
9147 (99.3%) exact matches, in which:  
9083 unique CDR3  
13 unique J



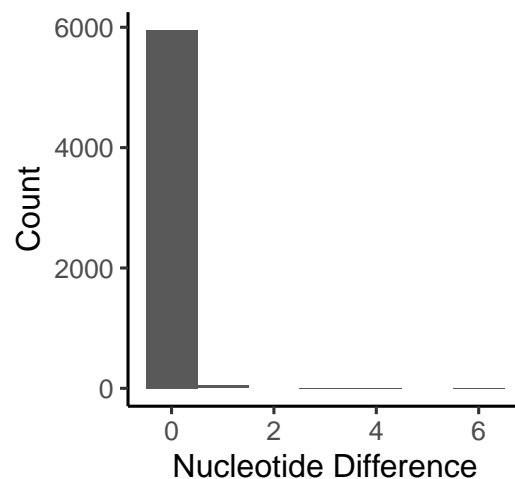
### TRBV27\*ap01

9057 sequences assigned  
8955 (98.9%) exact matches, in which:  
8720 unique CDR3  
13 unique J



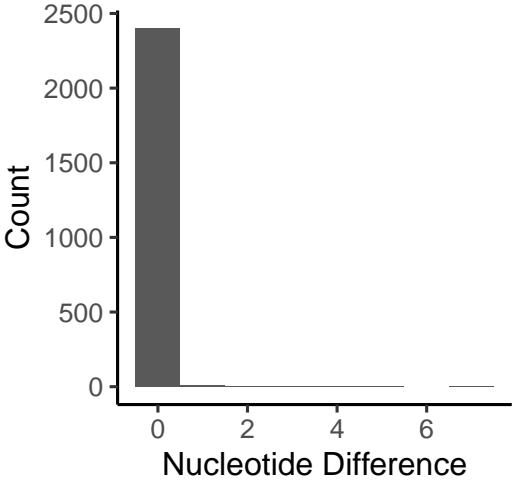
### TRBV9\*ap01

6005 sequences assigned  
5954 (99.2%) exact matches, in which:  
5852 unique CDR3  
13 unique J



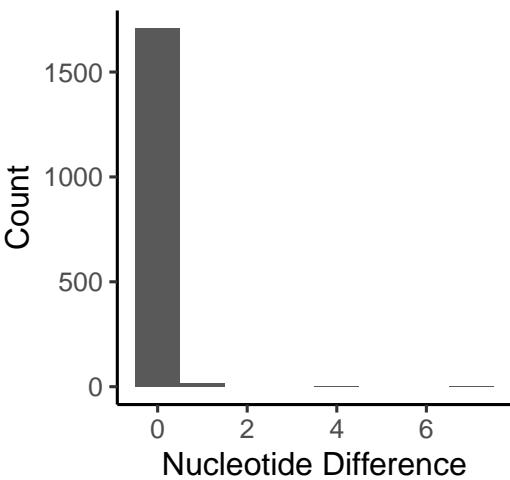
TRBV21-1\*ap01

2423 sequences assigned  
2400 (99.1%) exact matches, in which:  
2378 unique CDR3  
13 unique J



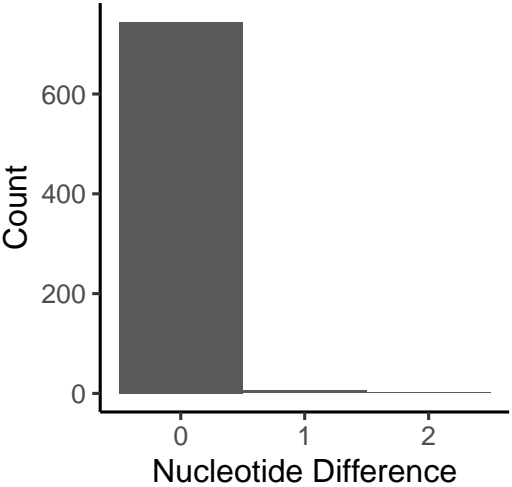
TRBV11-3\*ap01

1728 sequences assigned  
1708 (98.8%) exact matches, in which:  
1682 unique CDR3  
13 unique J



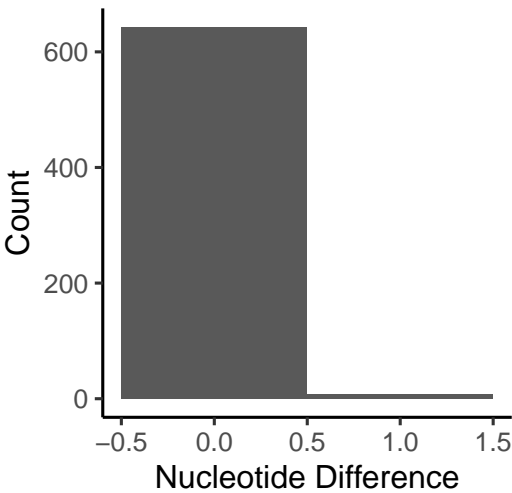
TRBV12-5\*ap01

753 sequences assigned  
745 (98.9%) exact matches, in which:  
738 unique CDR3  
13 unique J



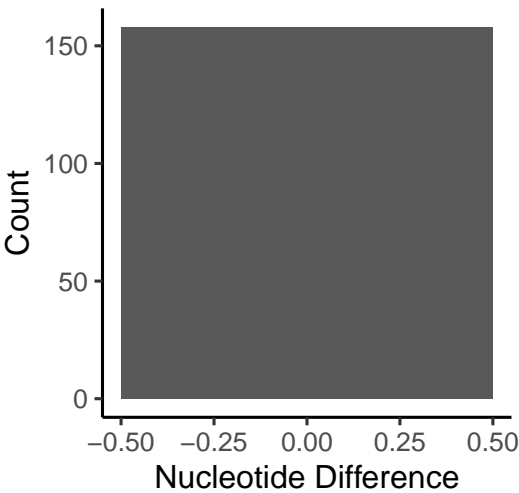
TRBV11-1\*ap01

650 sequences assigned  
643 (98.9%) exact matches, in which:  
631 unique CDR3  
13 unique J



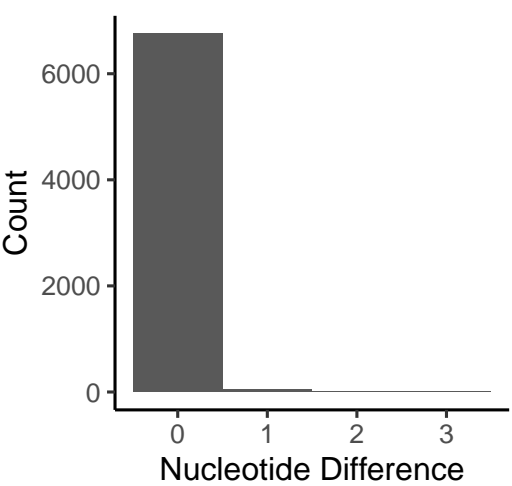
TRBV12-1\*ap01

158 sequences assigned  
158 (100%) exact matches, in which:  
156 unique CDR3  
13 unique J



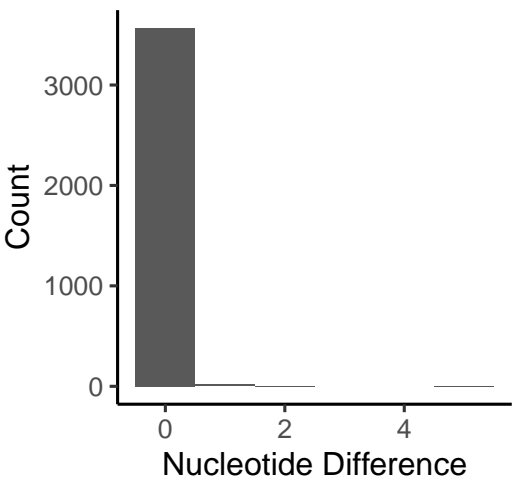
TRBV12-34\*ap01

6808 sequences assigned  
6754 (99.2%) exact matches, in which:  
6630 unique CDR3  
13 unique J



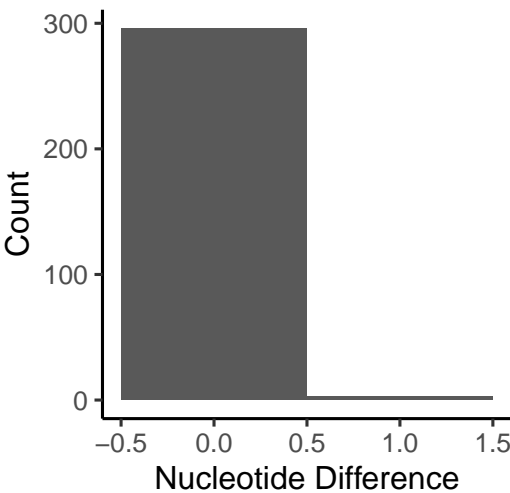
TRBV11-2\*ap01

3586 sequences assigned  
3567 (99.5%) exact matches, in which:  
3516 unique CDR3  
13 unique J



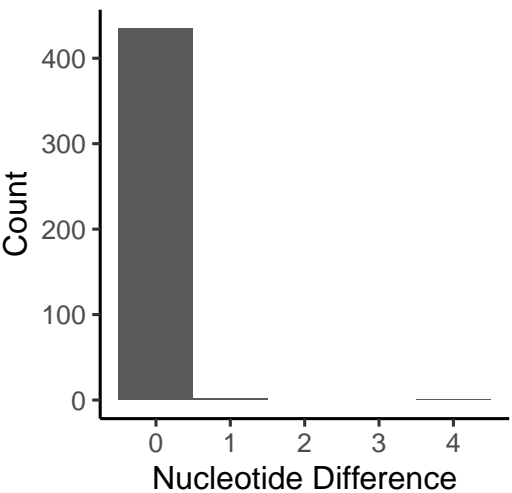
TRBV12-2\*ap01

299 sequences assigned  
296 (99%) exact matches, in which:  
296 unique CDR3  
13 unique J



TRBV23-1\*ap01

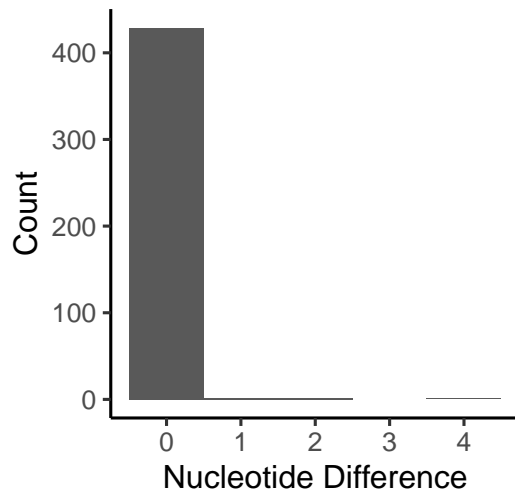
438 sequences assigned  
435 (99.3%) exact matches, in which:  
427 unique CDR3  
13 unique J





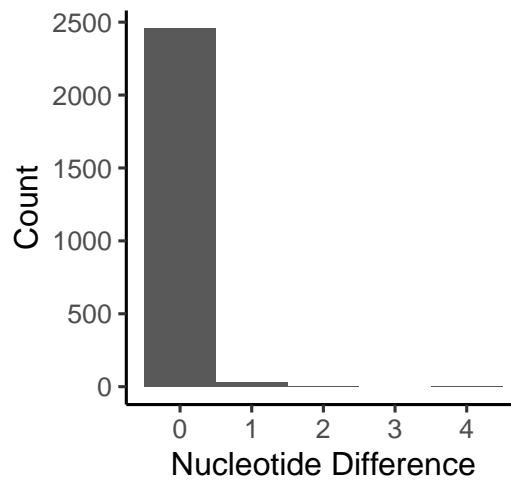
### TRBV23–1\*ap01\_T304C

434 sequences assigned  
429 (98.8%) exact matches, in which:  
423 unique CDR3  
13 unique J



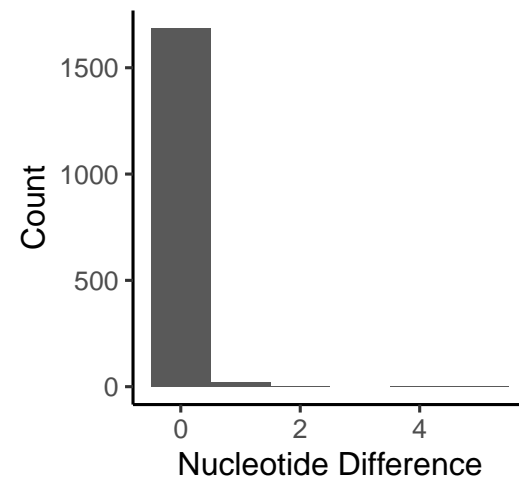
### TRBV4–1\*ap01

2493 sequences assigned  
2457 (98.6%) exact matches, in which:  
2401 unique CDR3  
13 unique J



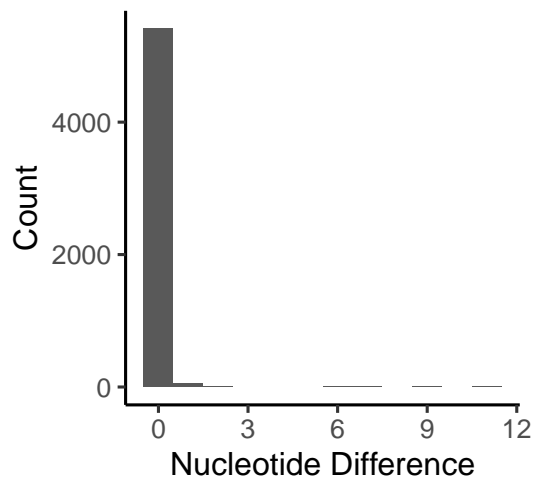
### TRBV25–1\*ap01

1711 sequences assigned  
1685 (98.5%) exact matches, in which:  
1636 unique CDR3  
13 unique J



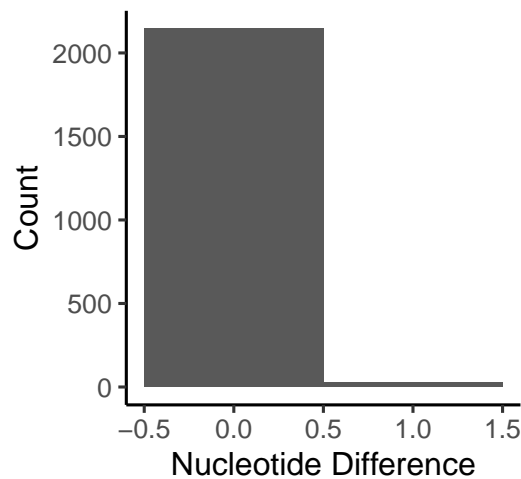
### TRBV3–12\*ap01

5469 sequences assigned  
5411 (98.9%) exact matches, in which:  
5290 unique CDR3  
13 unique J



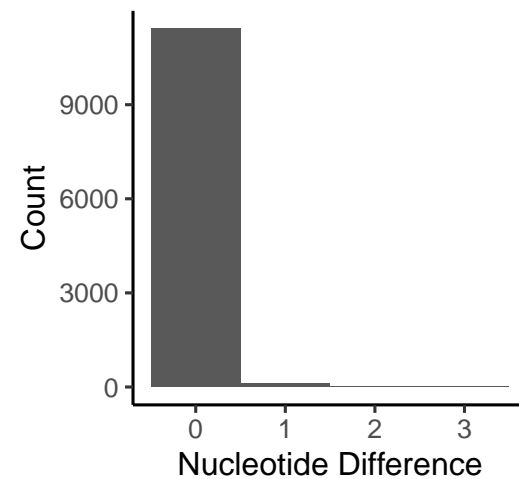
### TRBV4–2\*ap01

2170 sequences assigned  
2145 (98.8%) exact matches, in which:  
2089 unique CDR3  
13 unique J



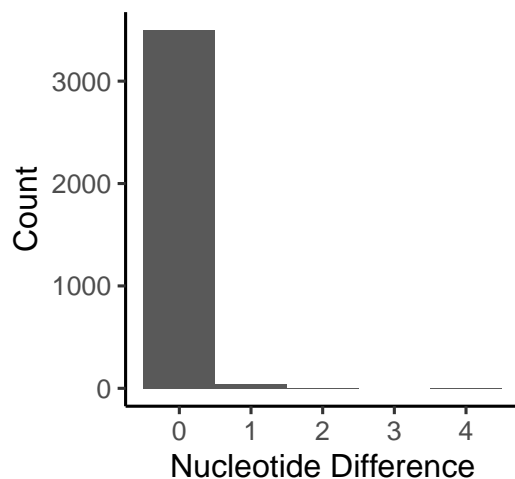
### TRBV5–1\*ap01

11521 sequences assigned  
11422 (99.1%) exact matches, in which:  
11096 unique CDR3  
13 unique J



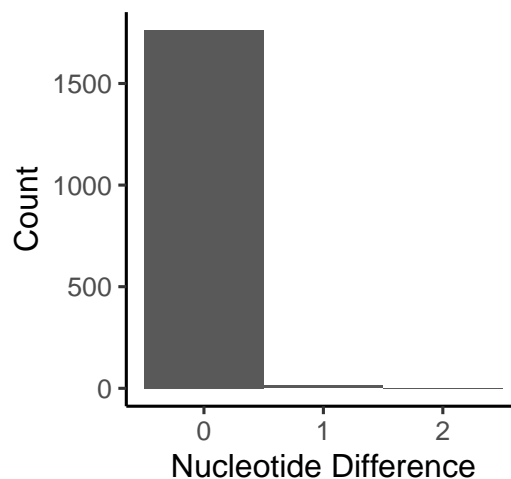
### TRBV24–1\*ap01

3546 sequences assigned  
3499 (98.7%) exact matches, in which:  
3439 unique CDR3  
13 unique J



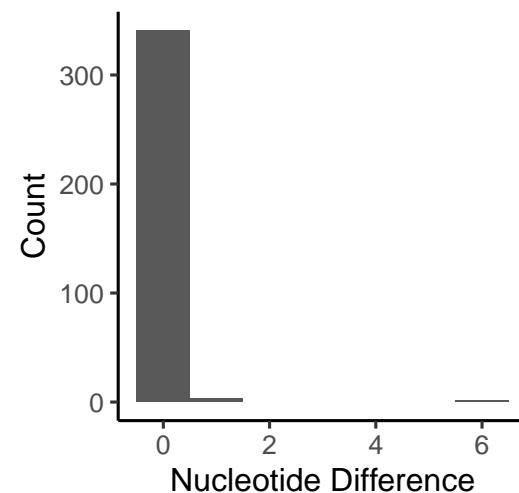
### TRBV4–3\*ap01

1777 sequences assigned  
1763 (99.2%) exact matches, in which:  
1714 unique CDR3  
13 unique J



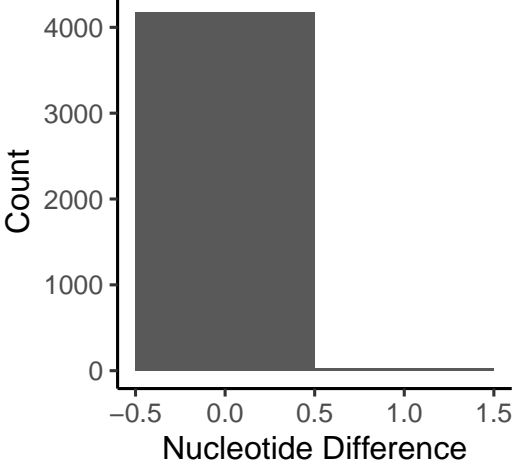
### TRBV5–3\*ap01

345 sequences assigned  
341 (98.8%) exact matches, in which:  
338 unique CDR3  
13 unique J



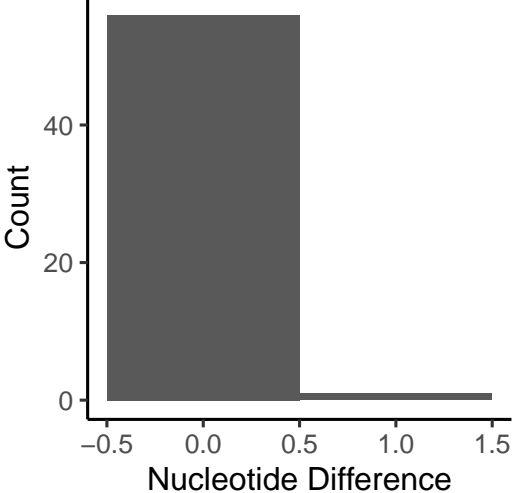
TRBV5-4\*ap01

4208 sequences assigned  
4174 (99.2%) exact matches, in which:  
4060 unique CDR3  
13 unique J



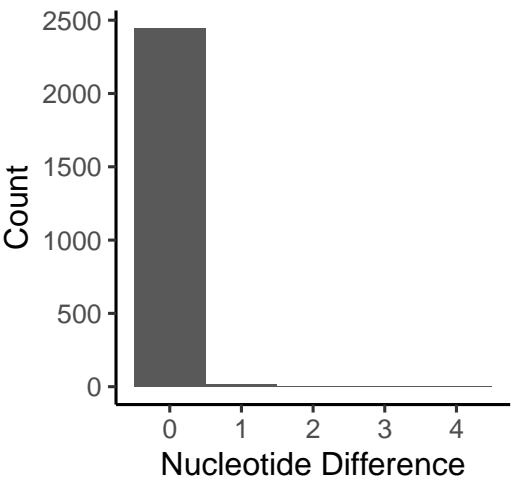
TRBV5-7\*ap01

57 sequences assigned  
56 (98.2%) exact matches, in which:  
55 unique CDR3  
13 unique J



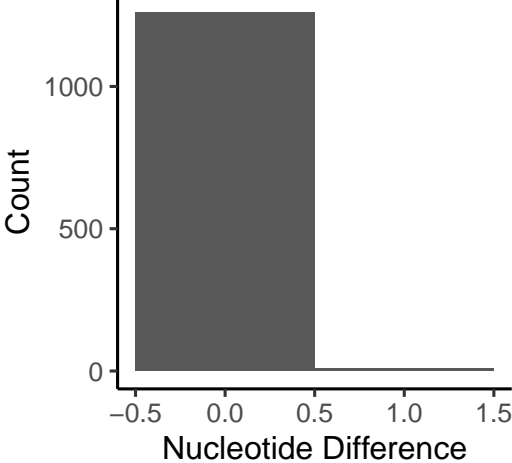
TRBV6-4\*ap01

2468 sequences assigned  
2444 (99%) exact matches, in which:  
2410 unique CDR3  
13 unique J



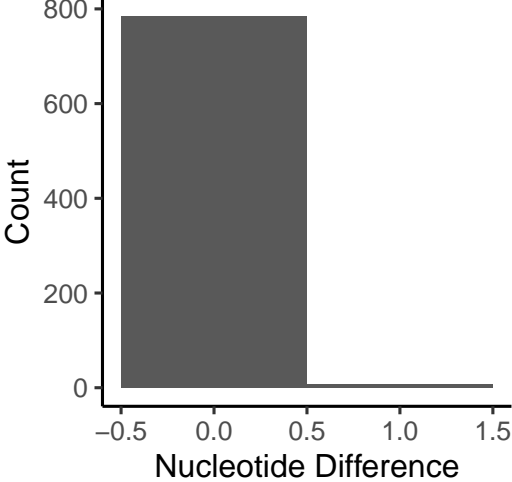
TRBV5-5\*ap01

1268 sequences assigned  
1259 (99.3%) exact matches, in which:  
1250 unique CDR3  
13 unique J



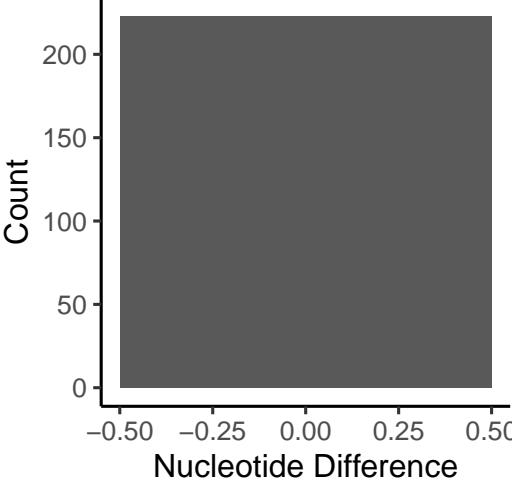
TRBV5-8\*ap01

793 sequences assigned  
785 (99%) exact matches, in which:  
773 unique CDR3  
13 unique J



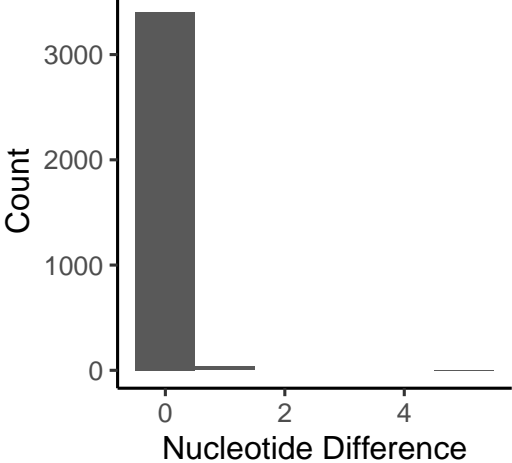
TRBV6-7\*ap01

223 sequences assigned  
223 (100%) exact matches, in which:  
218 unique CDR3  
13 unique J



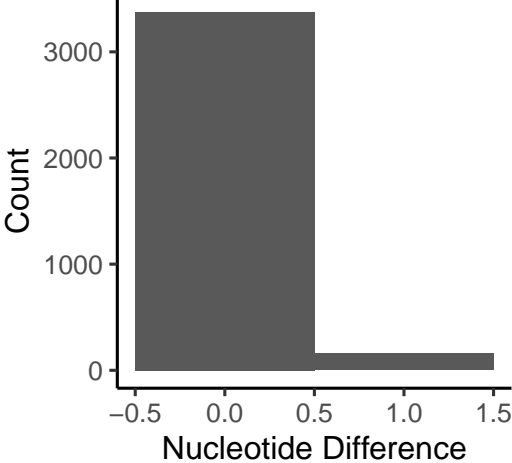
TRBV5-6\*ap01

3440 sequences assigned  
3404 (99%) exact matches, in which:  
3305 unique CDR3  
13 unique J



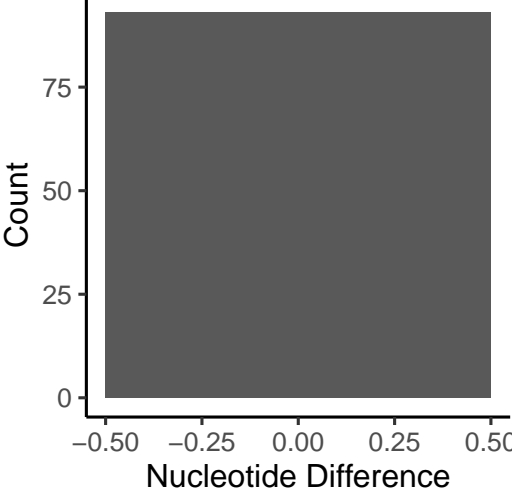
TRBV6-1\*ap01

3535 sequences assigned  
3375 (95.5%) exact matches, in which:  
3291 unique CDR3  
13 unique J



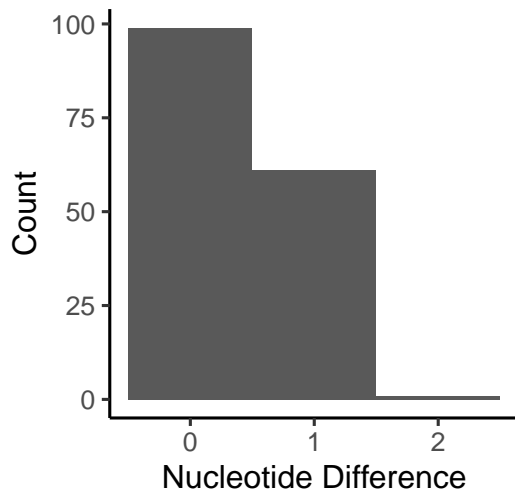
TRBV6-8\*ap01

93 sequences assigned  
93 (100%) exact matches, in which:  
89 unique CDR3  
13 unique J



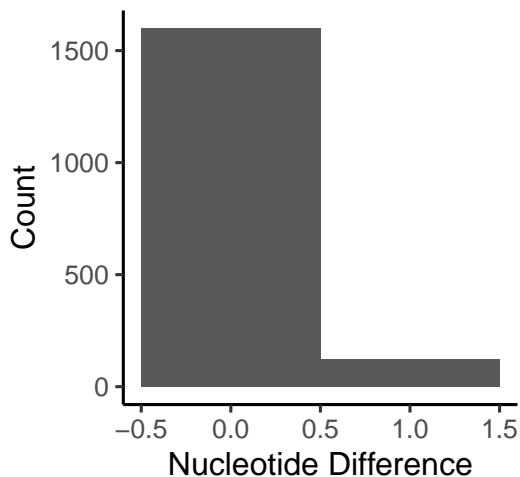
### TRBV6-9\*ap01

161 sequences assigned  
99 (61.5%) exact matches, in which:  
97 unique CDR3  
13 unique J



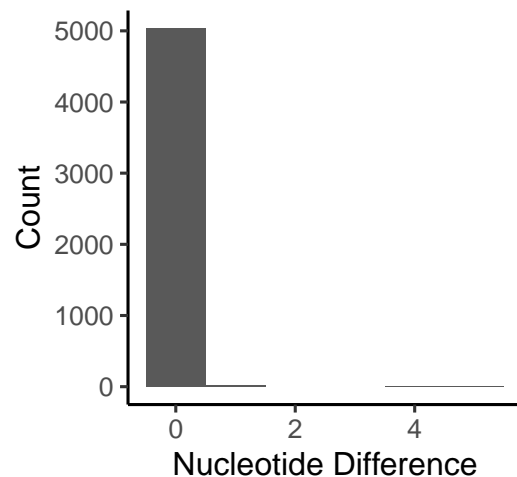
### TRBV6-56\*ap02

1722 sequences assigned  
1599 (92.9%) exact matches, in which:  
1549 unique CDR3  
13 unique J



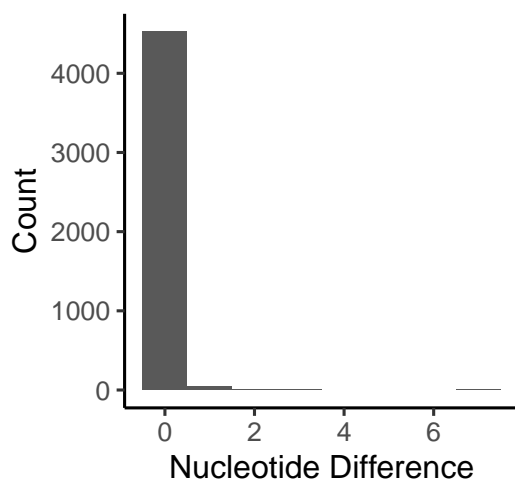
### TRBV7-2\*ap01

5054 sequences assigned  
5034 (99.6%) exact matches, in which:  
4957 unique CDR3  
13 unique J



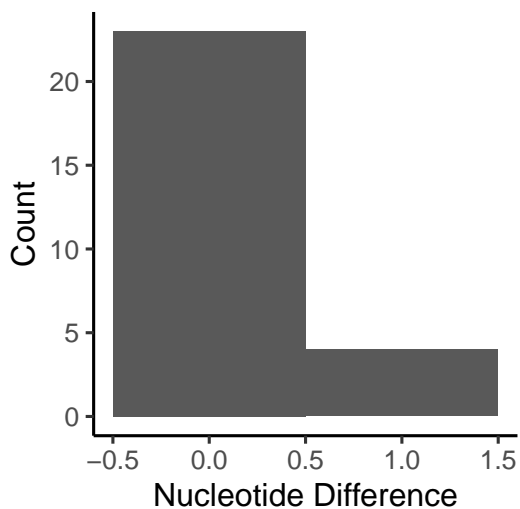
### TRBV6-23\*ap01

4567 sequences assigned  
4525 (99.1%) exact matches, in which:  
4404 unique CDR3  
13 unique J



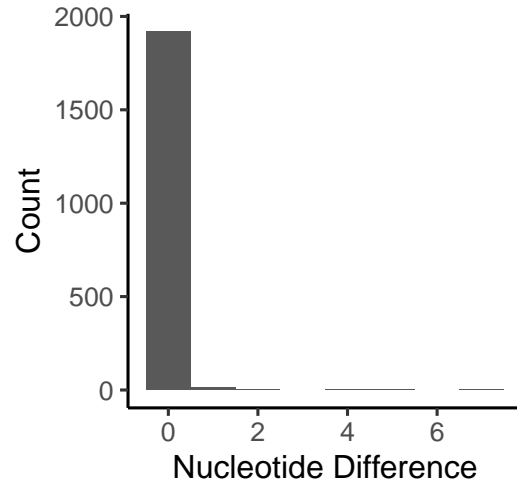
### TRBV7-1\*ap01\_G291C\_T

27 sequences assigned  
23 (85.2%) exact matches, in which:  
23 unique CDR3  
10 unique J



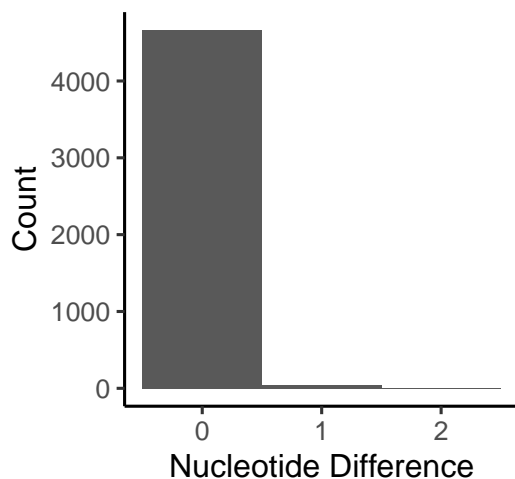
### TRBV7-3\*ap01

1934 sequences assigned  
1918 (99.2%) exact matches, in which:  
1897 unique CDR3  
13 unique J



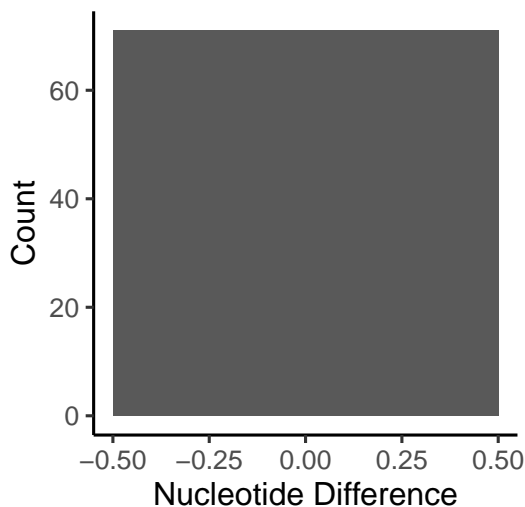
### TRBV6-56\*ap01

4710 sequences assigned  
4663 (99%) exact matches, in which:  
4552 unique CDR3  
13 unique J



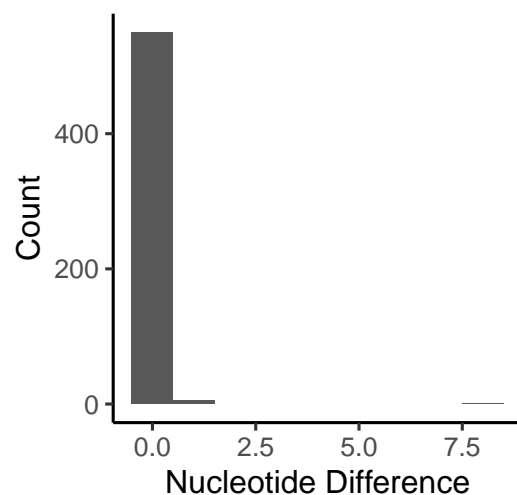
### TRBV7-1\*ap01\_G291C\_T

71 sequences assigned  
71 (100%) exact matches, in which:  
69 unique CDR3  
11 unique J



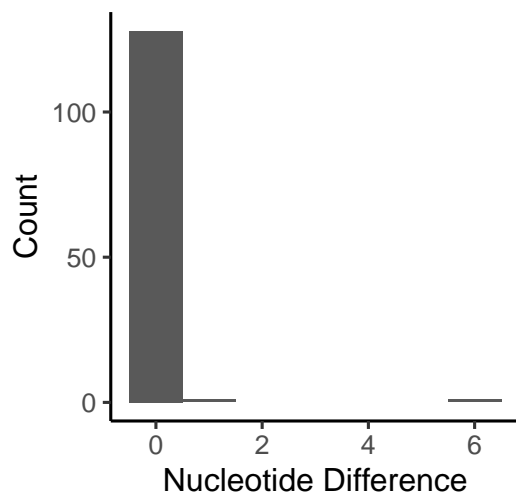
### TRBV7-3\*ap03

556 sequences assigned  
550 (98.9%) exact matches, in which:  
543 unique CDR3  
13 unique J



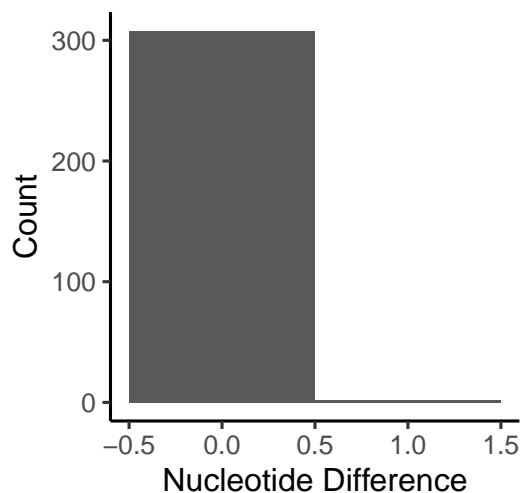
### TRBV7-4\*ap01

130 sequences assigned  
128 (98.5%) exact matches, in which:  
124 unique CDR3  
13 unique J



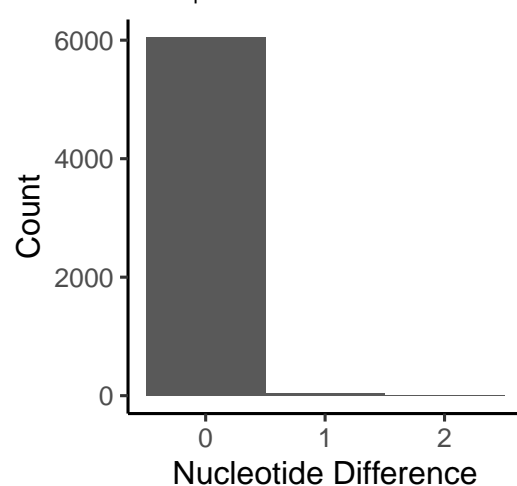
### TRBV7-7\*ap01\_C315T

310 sequences assigned  
308 (99.4%) exact matches, in which:  
304 unique CDR3  
13 unique J



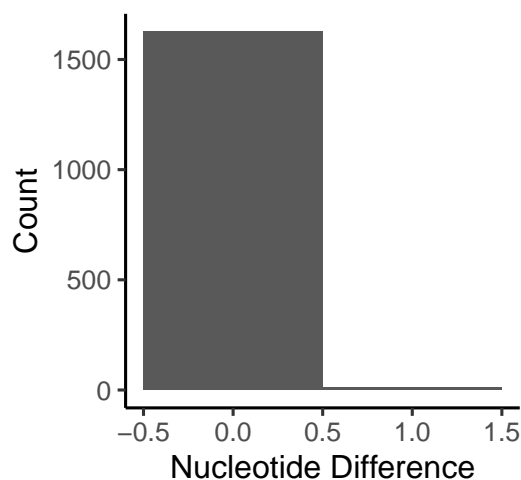
### TRBV7-9\*ap01

6093 sequences assigned  
6047 (99.2%) exact matches, in which:  
5942 unique CDR3  
13 unique J



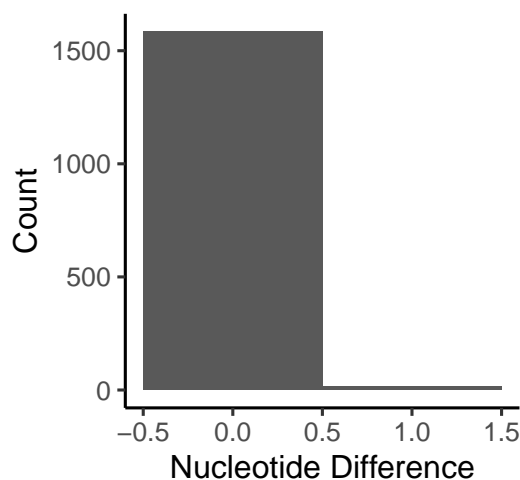
### TRBV7-6\*ap01

1637 sequences assigned  
1626 (99.3%) exact matches, in which:  
1598 unique CDR3  
13 unique J



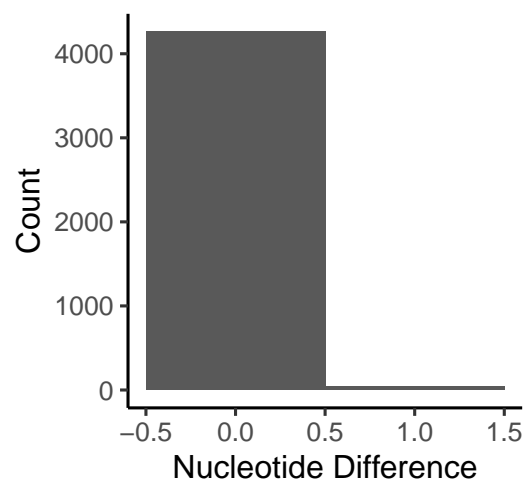
### TRBV7-8\*ap01

1598 sequences assigned  
1584 (99.1%) exact matches, in which:  
1552 unique CDR3  
13 unique J



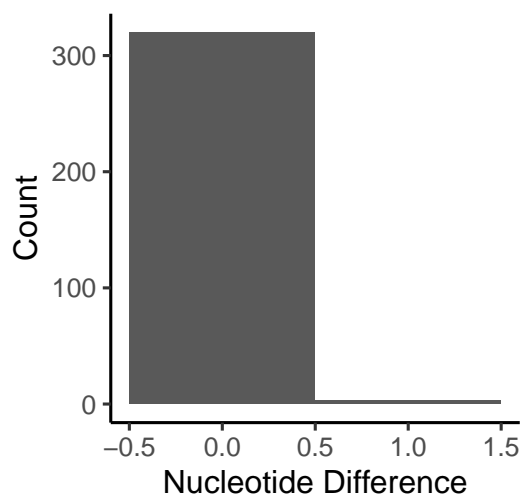
### TRBV29-1\*ap01

4309 sequences assigned  
4262 (98.9%) exact matches, in which:  
4150 unique CDR3  
13 unique J



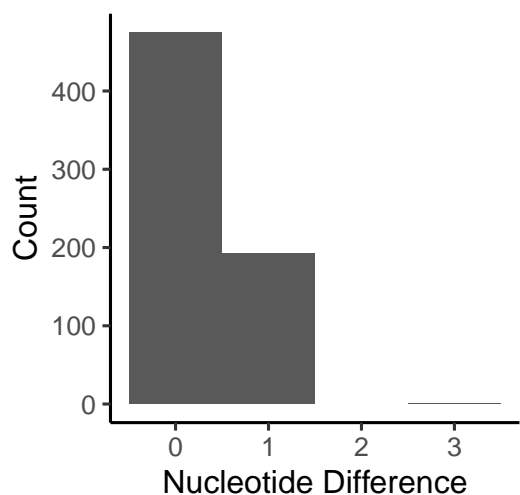
### TRBV7-7\*ap01

323 sequences assigned  
320 (99.1%) exact matches, in which:  
317 unique CDR3  
13 unique J



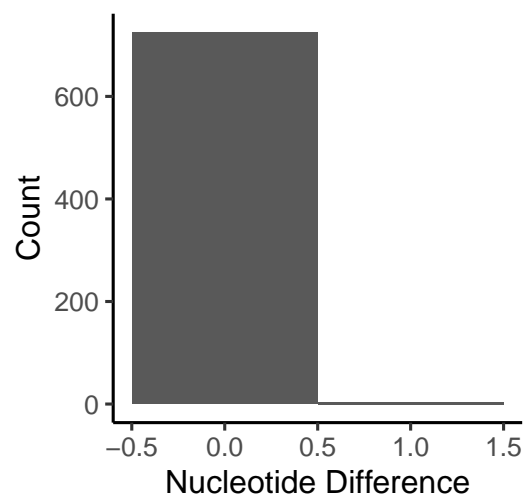
### TRBV7-8\*ap03

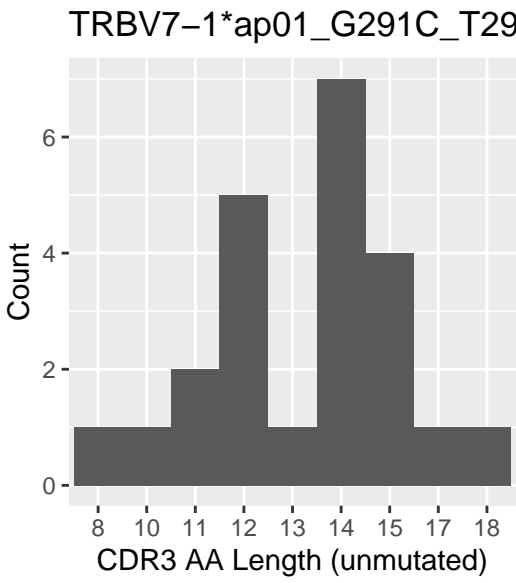
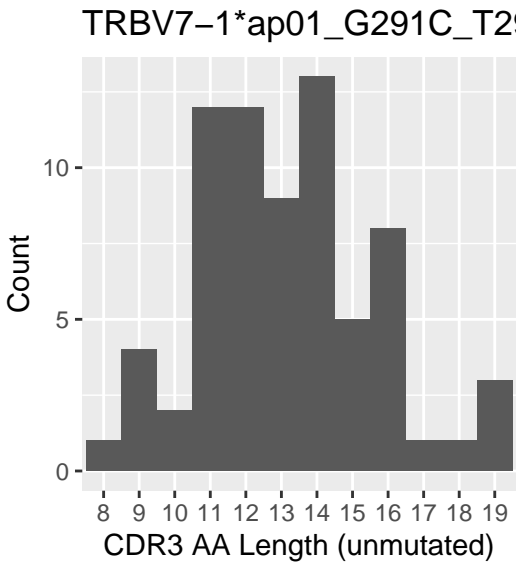
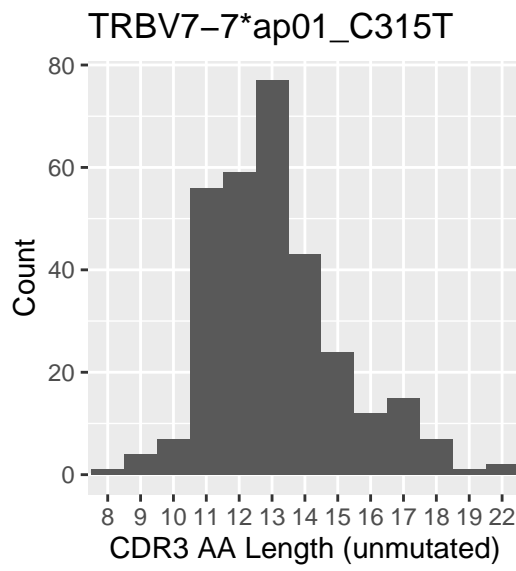
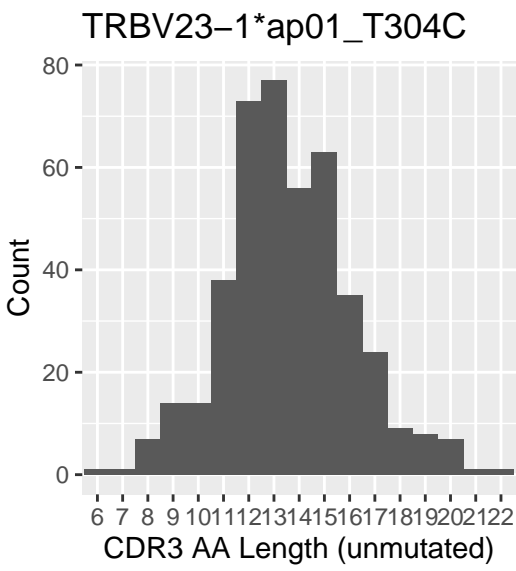
668 sequences assigned  
475 (71.1%) exact matches, in which:  
460 unique CDR3  
13 unique J



### TRBV29-1\*ap02

729 sequences assigned  
725 (99.5%) exact matches, in which:  
707 unique CDR3  
13 unique J







[illegible]