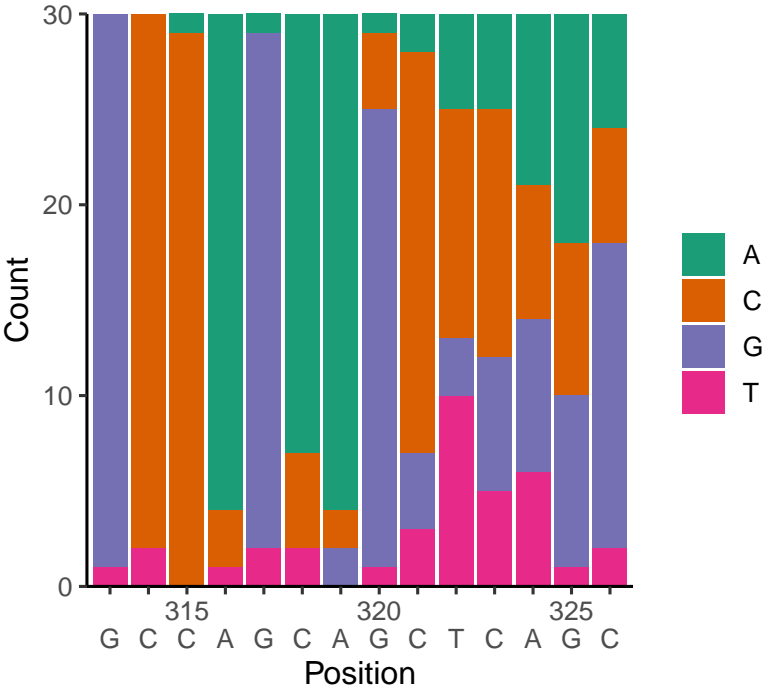
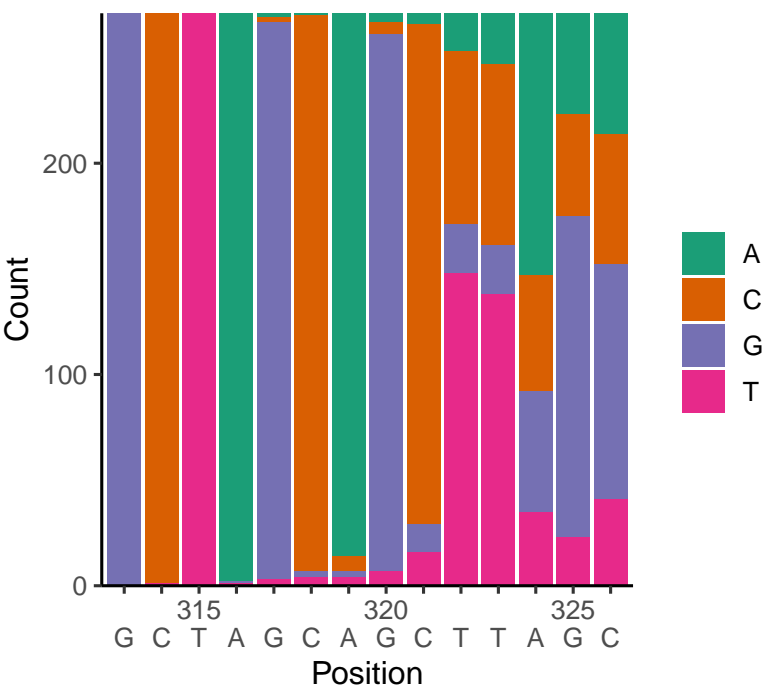


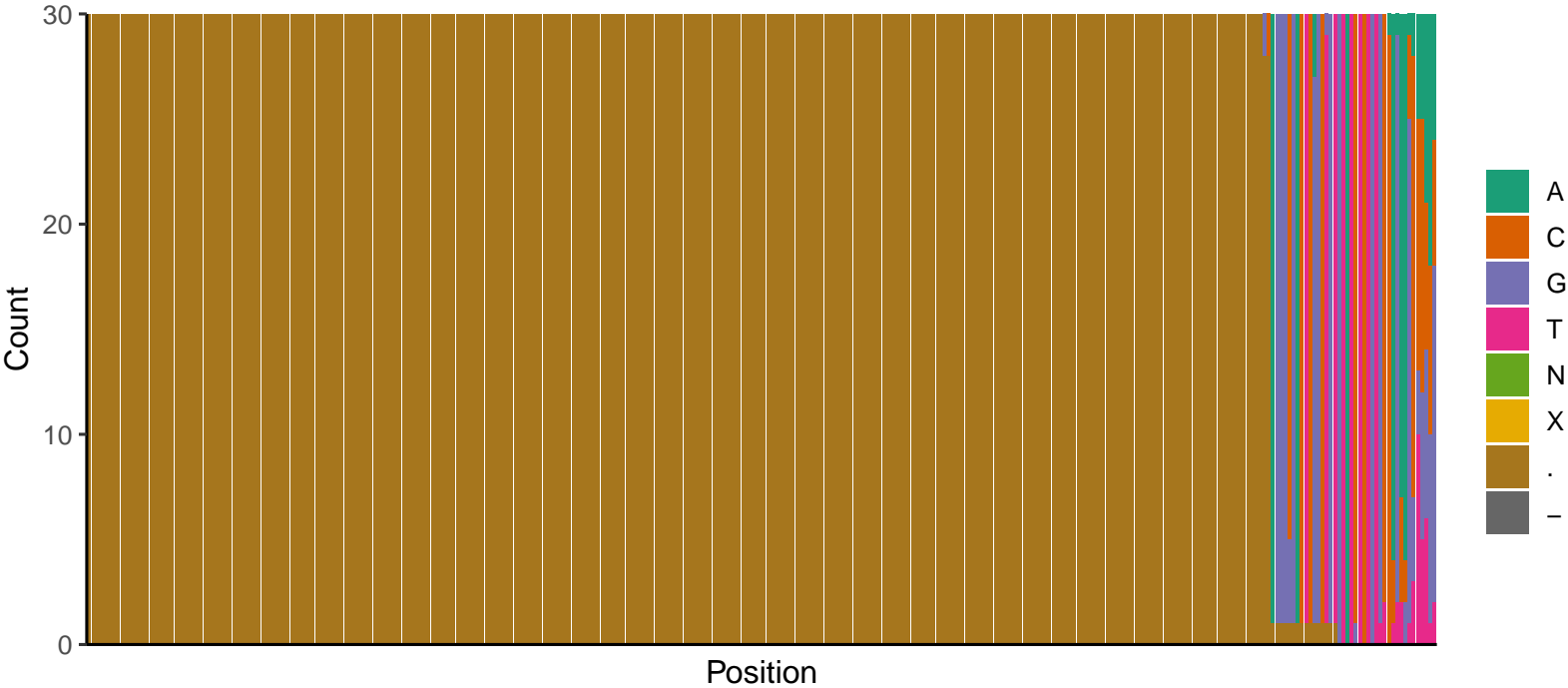
Gene TRBV7-1\*ap01\_T296C



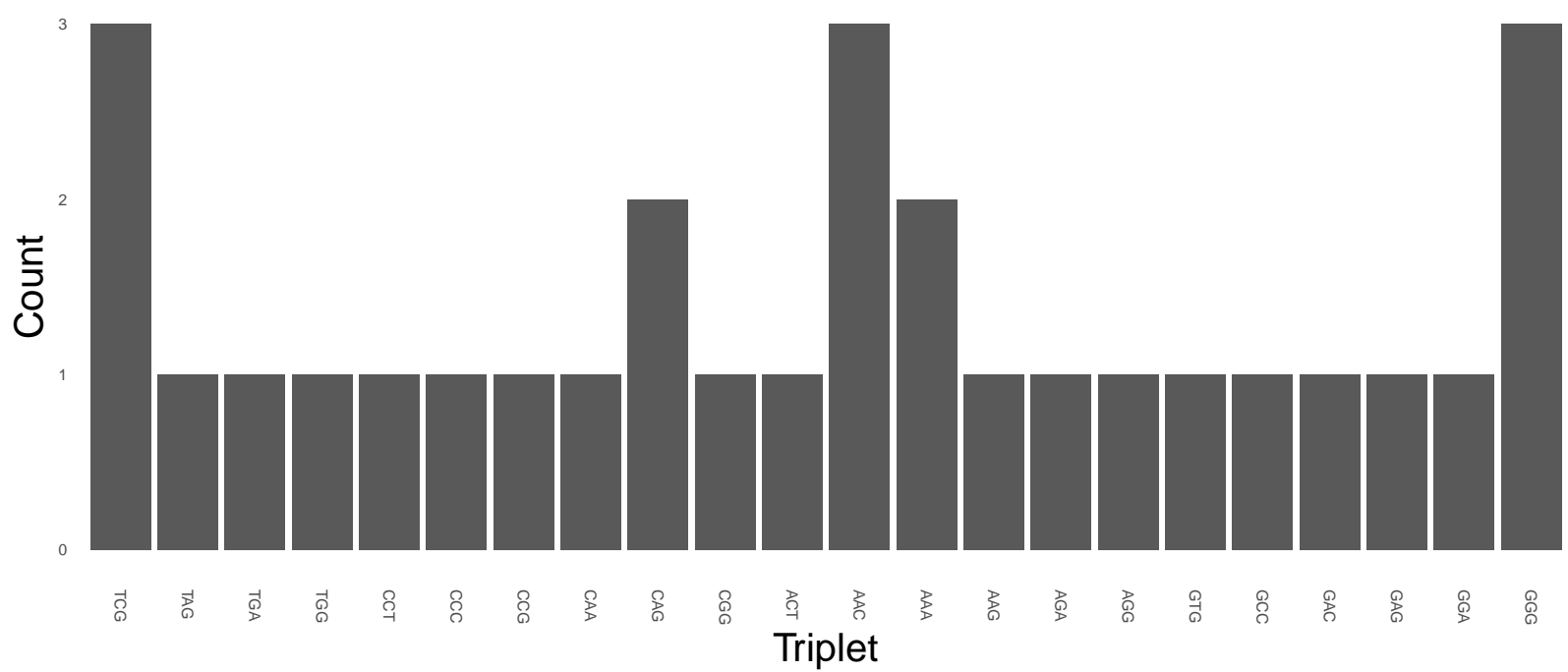
Gene TRBV7-7\*ap01\_C315T



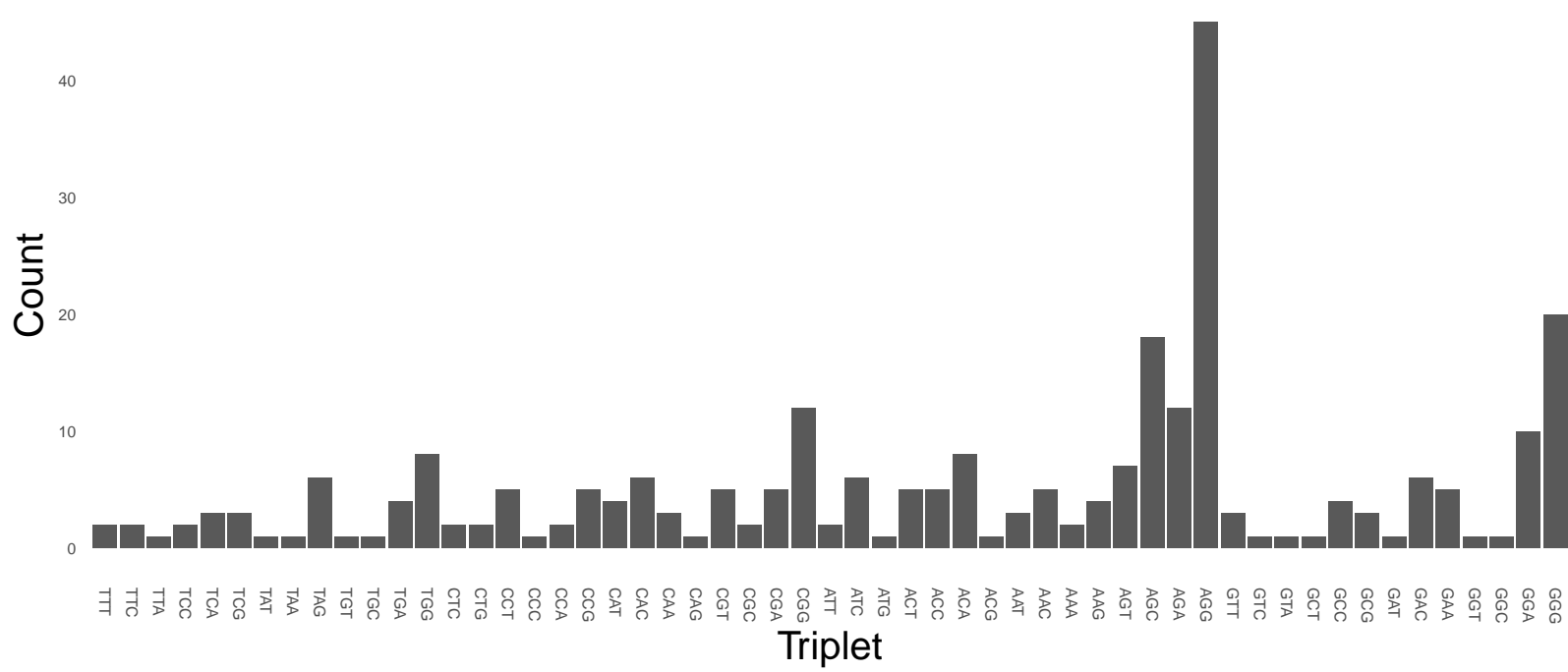
Gene TRBV7-1\*ap01\_T296C



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

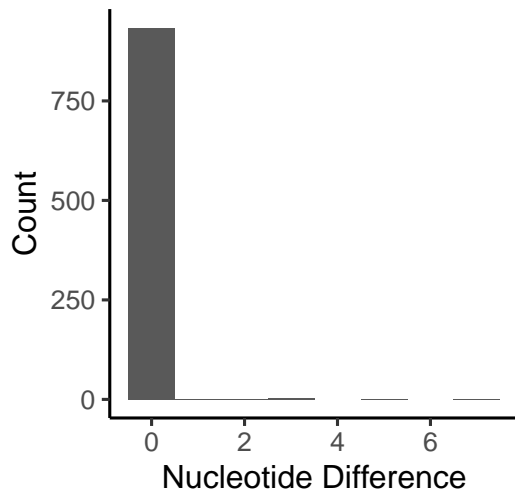


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



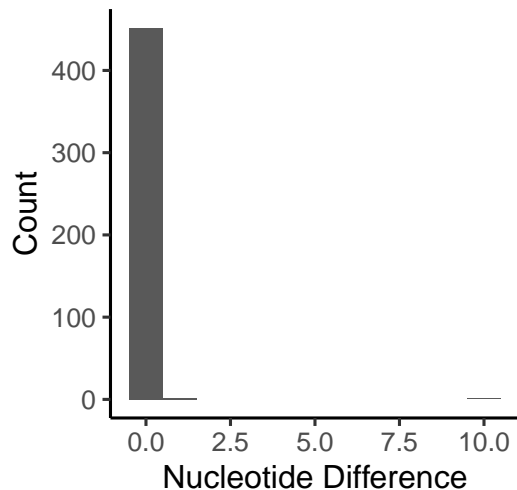
### TRBV10–1\*ap01

943 sequences assigned  
934 (99%) exact matches, in which:  
920 unique CDR3  
13 unique J



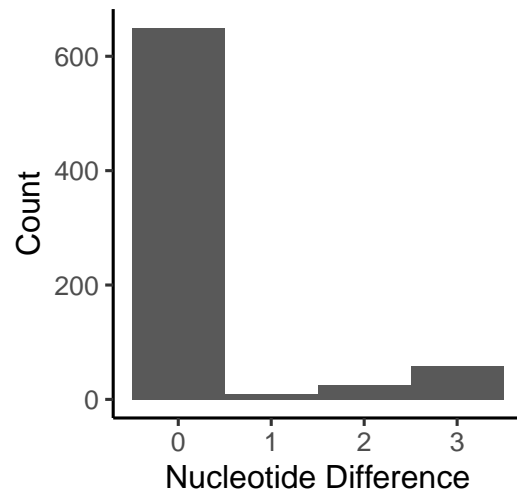
### TRBV10–2\*ap01

455 sequences assigned  
452 (99.3%) exact matches, in which:  
447 unique CDR3  
13 unique J



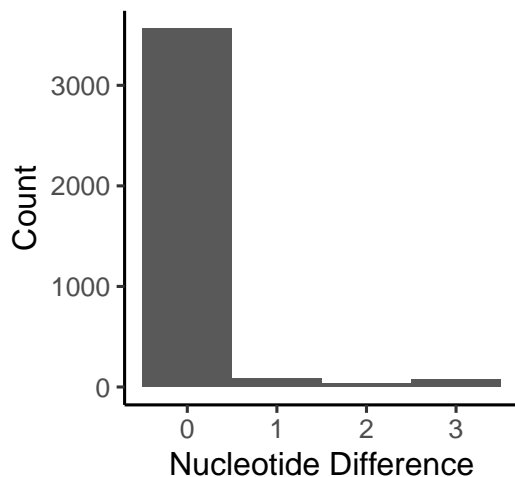
### TRBV13\*ap01

743 sequences assigned  
650 (87.5%) exact matches, in which:  
639 unique CDR3  
13 unique J



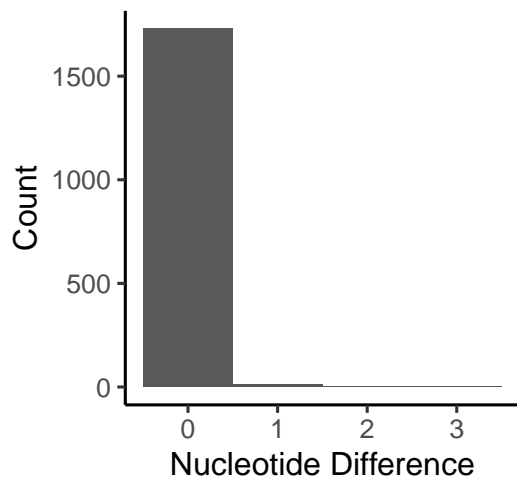
### TRBV20–1\*ap01

3762 sequences assigned  
3563 (94.7%) exact matches, in which:  
3470 unique CDR3  
13 unique J



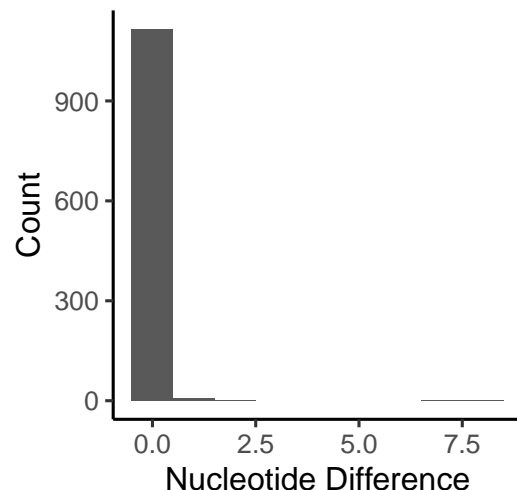
### TRBV10–3\*ap01

1748 sequences assigned  
1729 (98.9%) exact matches, in which:  
1707 unique CDR3  
13 unique J



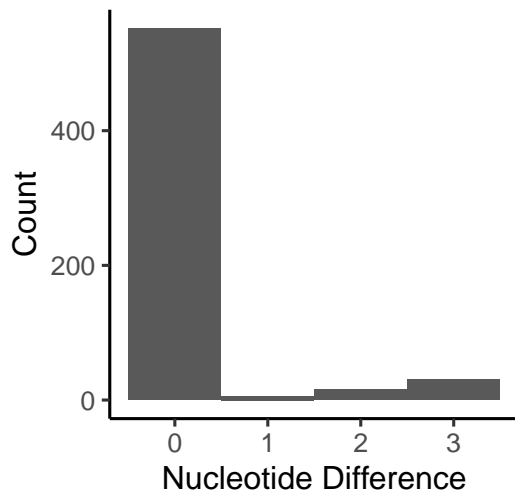
### TRBV14\*ap01

1127 sequences assigned  
1116 (99%) exact matches, in which:  
1106 unique CDR3  
13 unique J



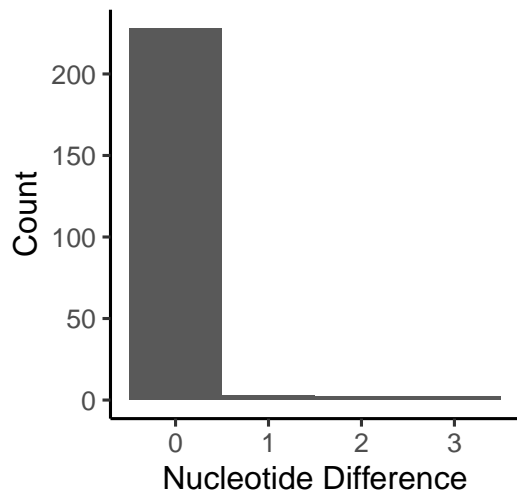
### TRBV20–1\*ap02

604 sequences assigned  
552 (91.4%) exact matches, in which:  
538 unique CDR3  
13 unique J



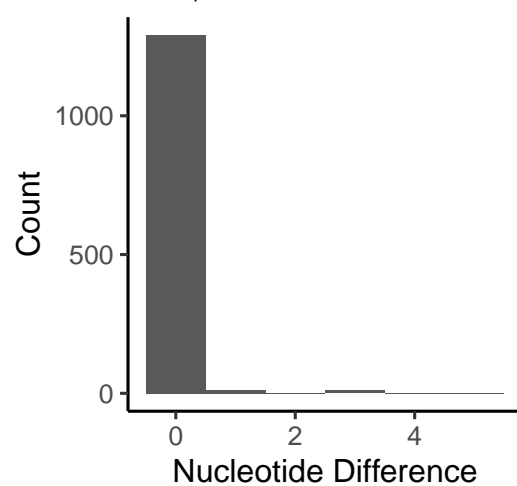
### TRBV1\*ap01

235 sequences assigned  
228 (97%) exact matches, in which:  
226 unique CDR3  
13 unique J



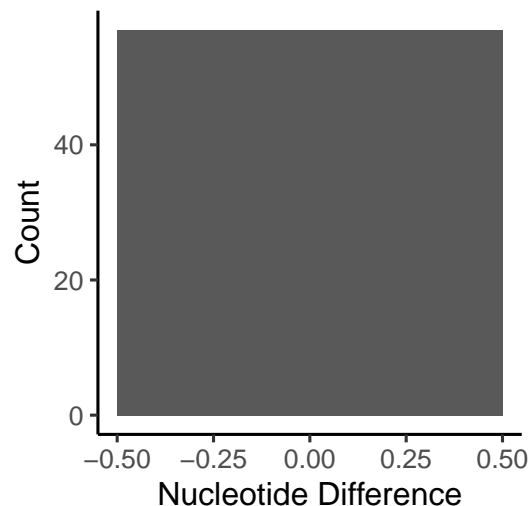
### TRBV15\*ap02

1317 sequences assigned  
1291 (98%) exact matches, in which:  
1271 unique CDR3  
13 unique J



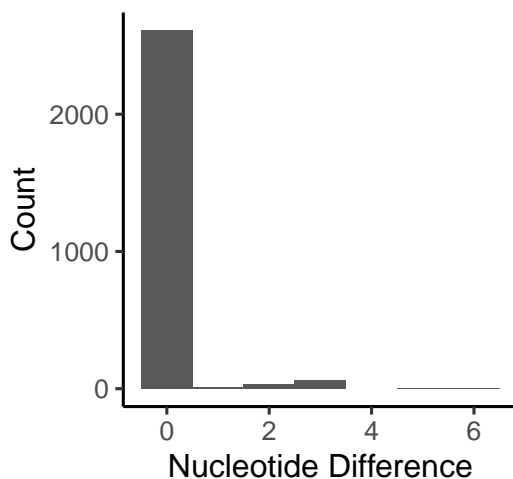
### TRBV16\*ap01

57 sequences assigned  
57 (100%) exact matches, in which:  
57 unique CDR3  
12 unique J



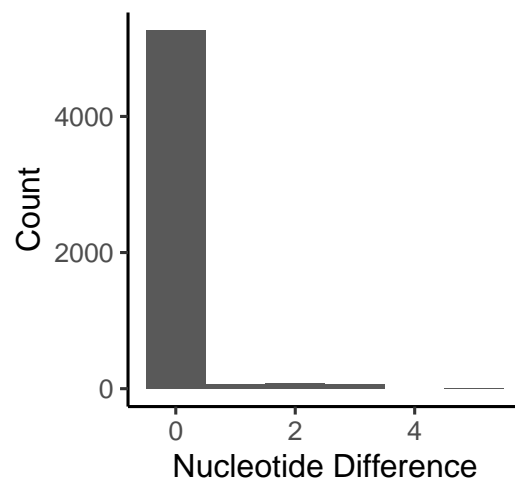
### TRBV2\*ap01

2725 sequences assigned  
2611 (95.8%) exact matches, in which:  
2589 unique CDR3  
13 unique J



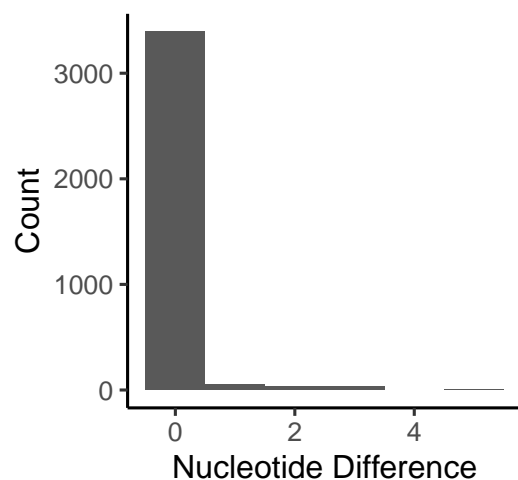
### TRBV28\*ap01

5475 sequences assigned  
5264 (96.1%) exact matches, in which:  
5214 unique CDR3  
13 unique J



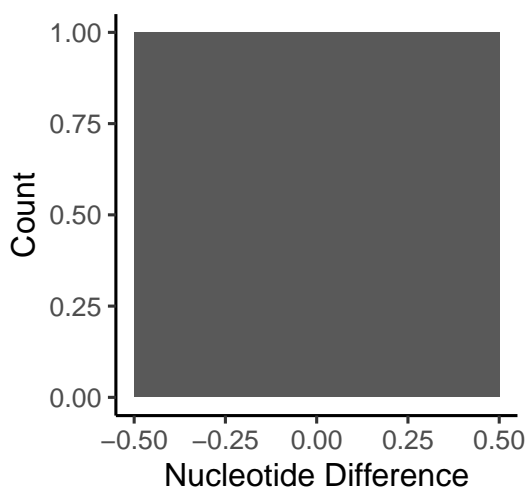
### TRBV18\*ap01

3511 sequences assigned  
3393 (96.6%) exact matches, in which:  
3314 unique CDR3  
13 unique J



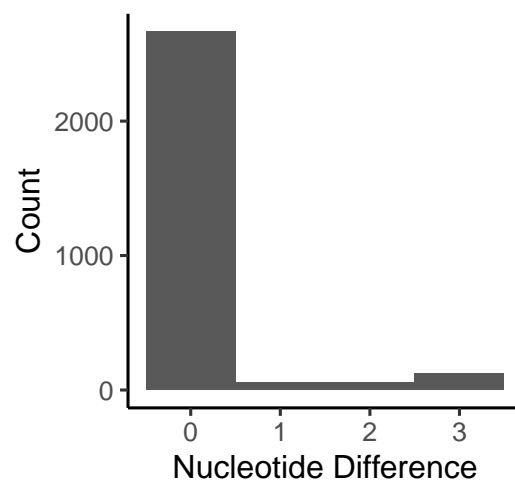
### TRBV26\*ap01

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



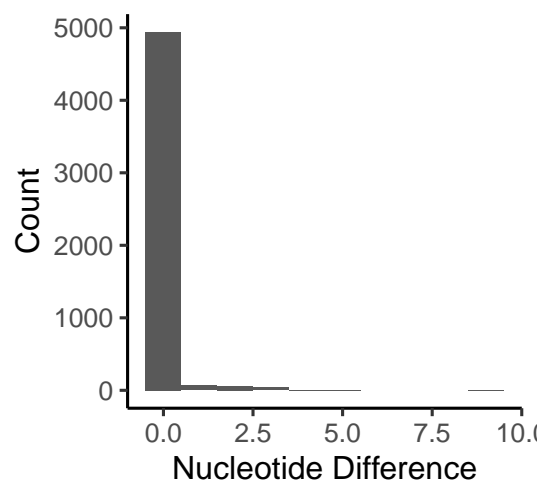
### TRBV30\*ap01

2896 sequences assigned  
2665 (92%) exact matches, in which:  
2598 unique CDR3  
13 unique J



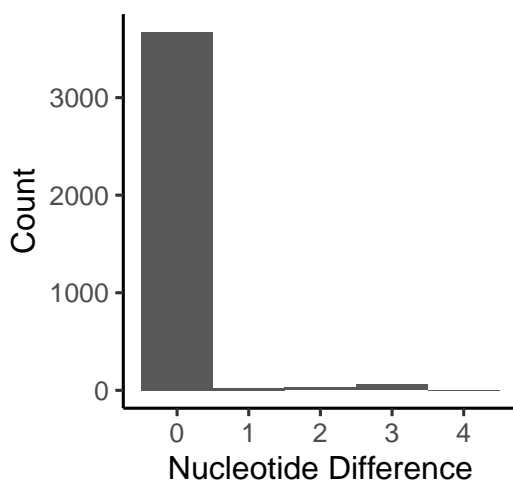
### TRBV19\*ap01

5111 sequences assigned  
4941 (96.7%) exact matches, in which:  
4886 unique CDR3  
13 unique J



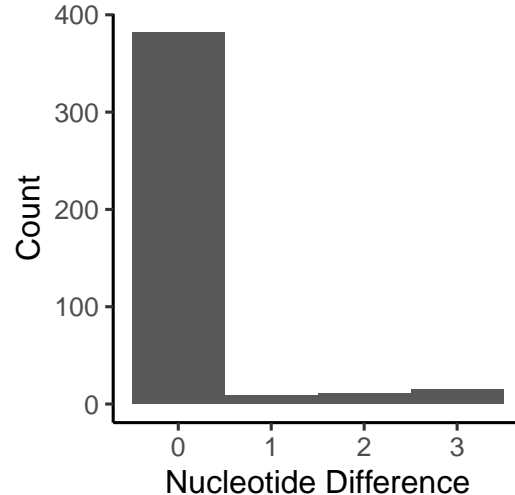
### TRBV27\*ap01

3785 sequences assigned  
3672 (97%) exact matches, in which:  
3633 unique CDR3  
13 unique J



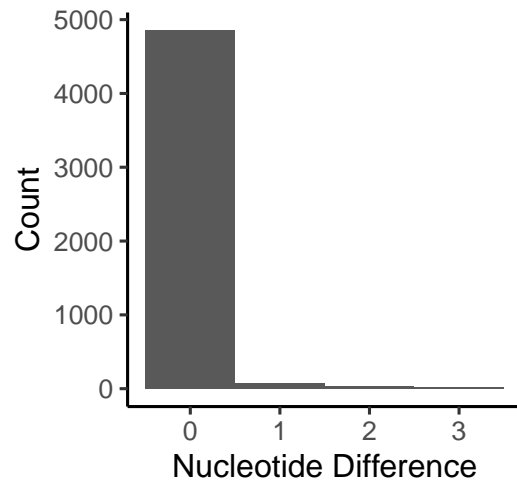
### TRBV30\*ap03

417 sequences assigned  
382 (91.6%) exact matches, in which:  
368 unique CDR3  
13 unique J



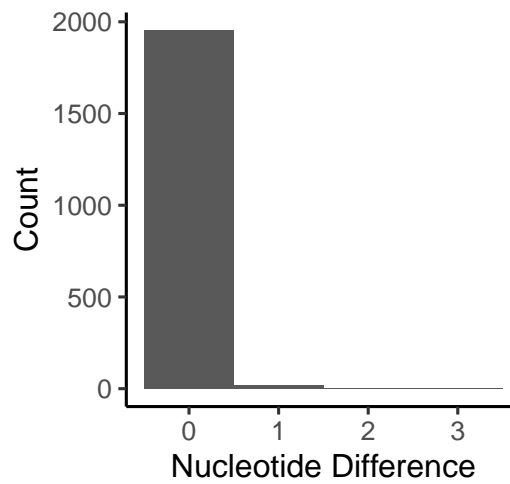
### TRBV9\*ap01

4986 sequences assigned  
4854 (97.4%) exact matches, in which:  
4758 unique CDR3  
13 unique J



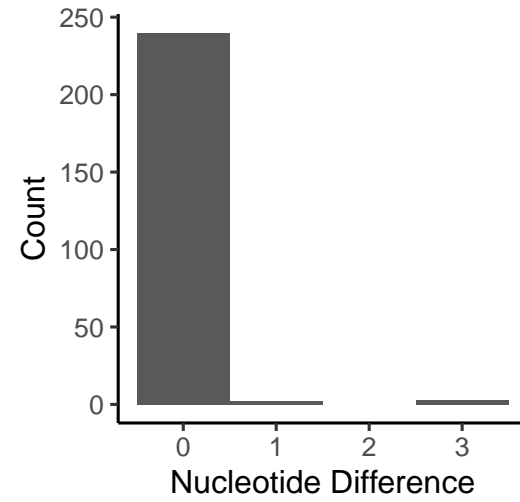
### TRBV11-2\*ap01

1975 sequences assigned  
1953 (98.9%) exact matches, in which:  
1929 unique CDR3  
13 unique J



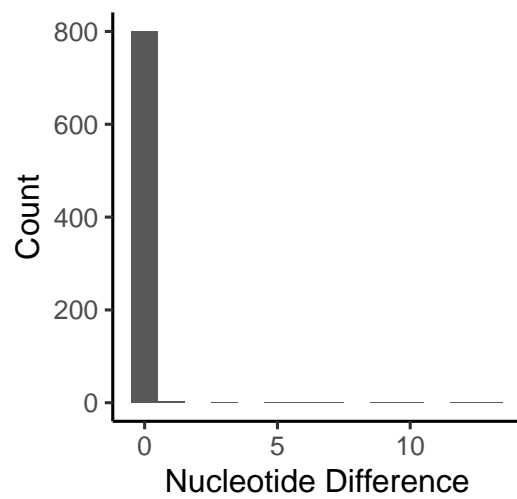
### TRBV12-2\*ap01

245 sequences assigned  
240 (98%) exact matches, in which:  
239 unique CDR3  
13 unique J



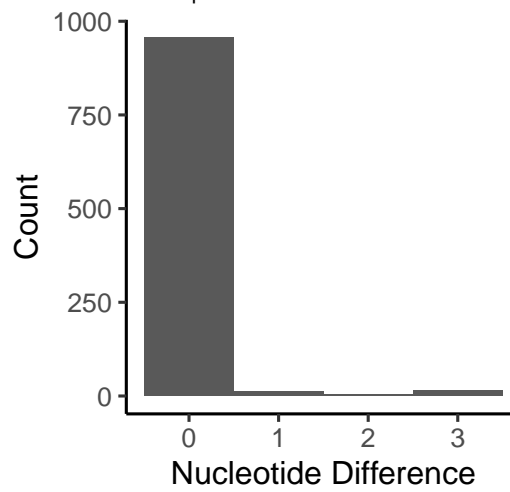
### TRBV21-1\*ap01

814 sequences assigned  
801 (98.4%) exact matches, in which:  
795 unique CDR3  
13 unique J



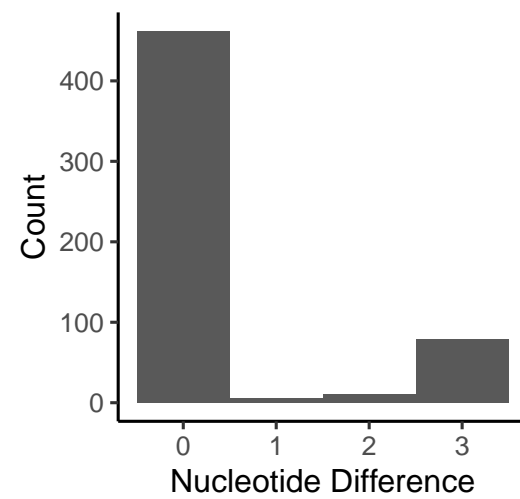
### TRBV11-3\*ap01

986 sequences assigned  
956 (97%) exact matches, in which:  
944 unique CDR3  
13 unique J



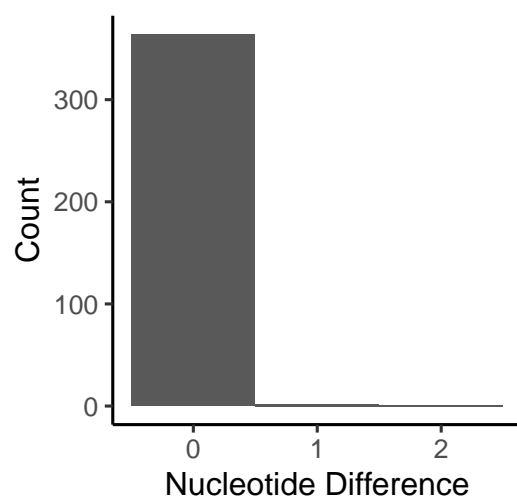
### TRBV12-5\*ap01

556 sequences assigned  
462 (83.1%) exact matches, in which:  
454 unique CDR3  
13 unique J



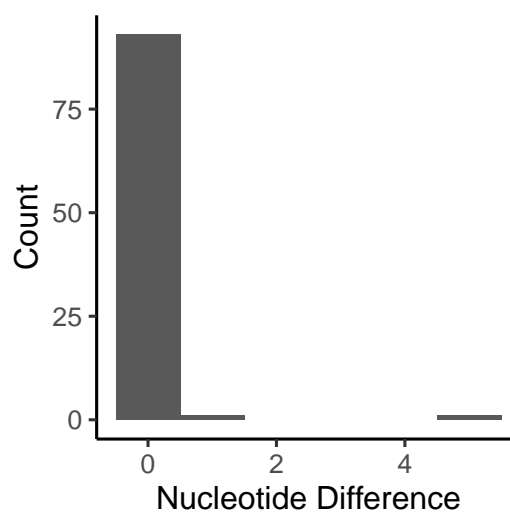
### TRBV11-1\*ap01

367 sequences assigned  
364 (99.2%) exact matches, in which:  
361 unique CDR3  
13 unique J



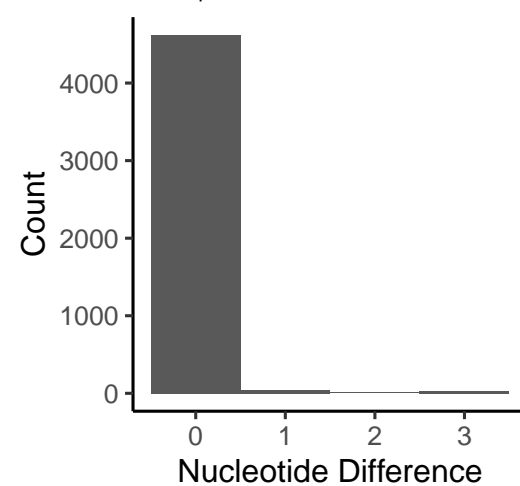
### TRBV12-1\*ap01

95 sequences assigned  
93 (97.9%) exact matches, in which:  
93 unique CDR3  
12 unique J



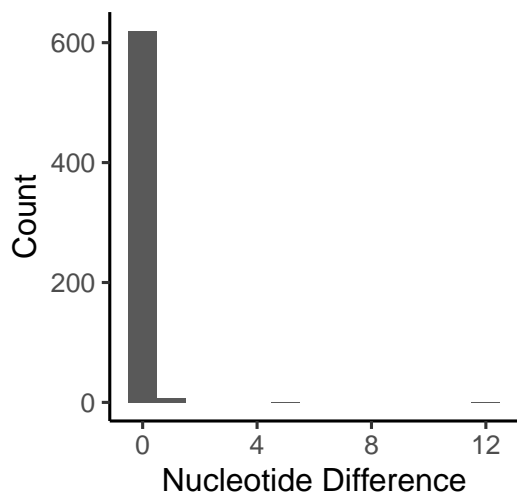
### TRBV12-34\*ap01

4697 sequences assigned  
4619 (98.3%) exact matches, in which:  
4563 unique CDR3  
13 unique J



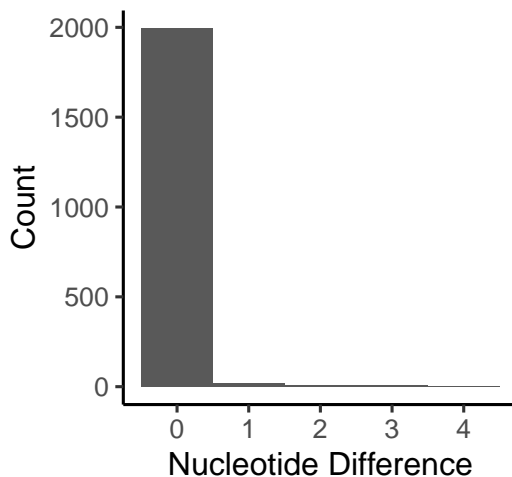
### TRBV23-1\*ap01

630 sequences assigned  
620 (98.4%) exact matches, in which:  
602 unique CDR3  
13 unique J



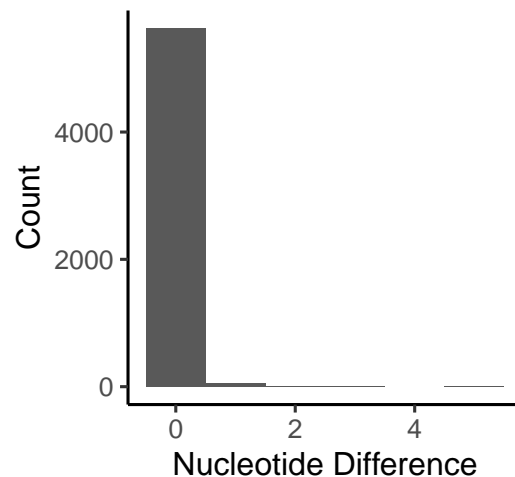
### TRBV24-1\*ap01

2033 sequences assigned  
1994 (98.1%) exact matches, in which:  
1962 unique CDR3  
13 unique J



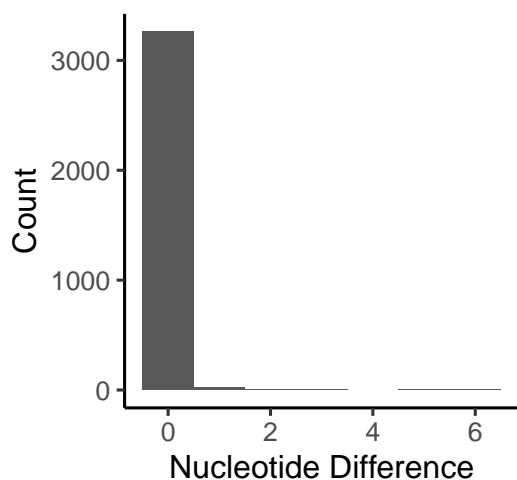
### TRBV5-1\*ap01

5709 sequences assigned  
5628 (98.6%) exact matches, in which:  
5540 unique CDR3  
13 unique J



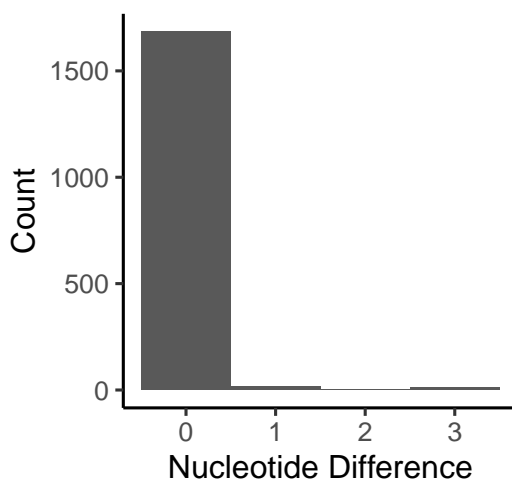
### TRBV3-12\*ap01

3295 sequences assigned  
3261 (99%) exact matches, in which:  
3229 unique CDR3  
13 unique J



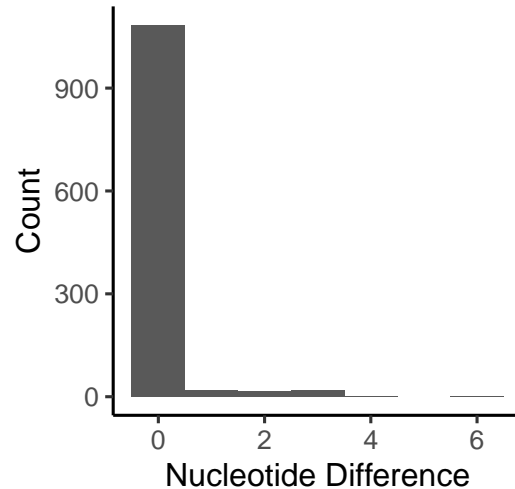
### TRBV4-2\*ap01

1714 sequences assigned  
1684 (98.2%) exact matches, in which:  
1659 unique CDR3  
13 unique J



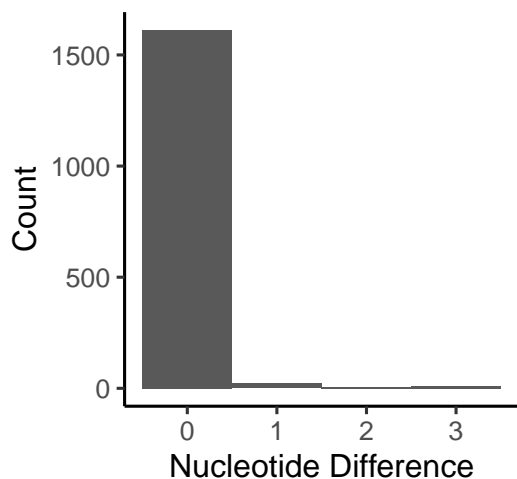
### TRBV25-1\*ap01

1137 sequences assigned  
1084 (95.3%) exact matches, in which:  
1055 unique CDR3  
13 unique J



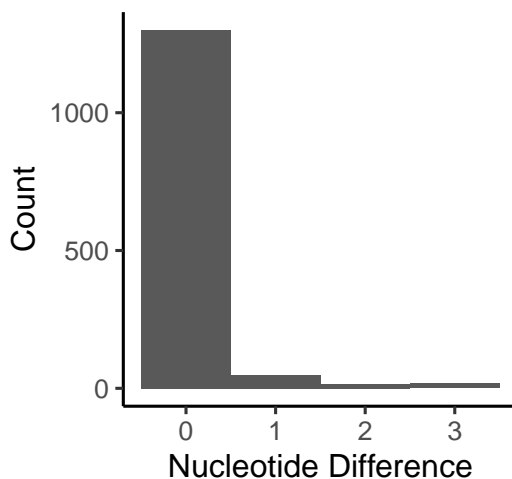
### TRBV4-1\*ap01

1651 sequences assigned  
1612 (97.6%) exact matches, in which:  
1569 unique CDR3  
13 unique J



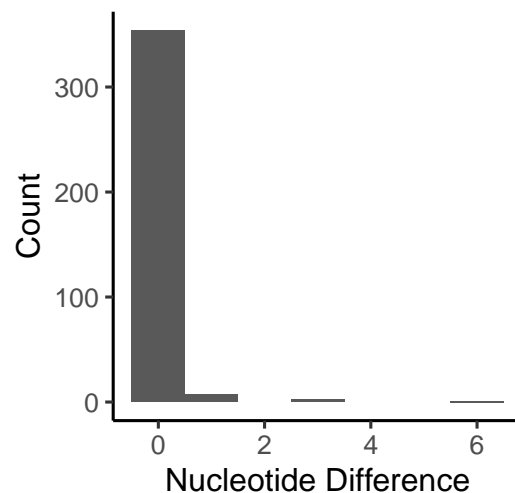
### TRBV4-3\*ap01

1382 sequences assigned  
1300 (94.1%) exact matches, in which:  
1275 unique CDR3  
13 unique J



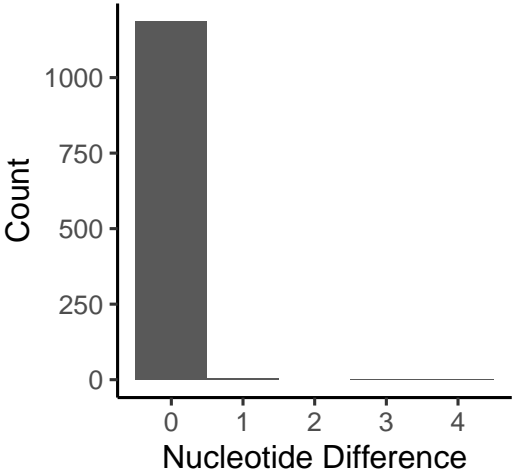
### TRBV5-3\*ap01

364 sequences assigned  
354 (97.3%) exact matches, in which:  
351 unique CDR3  
13 unique J



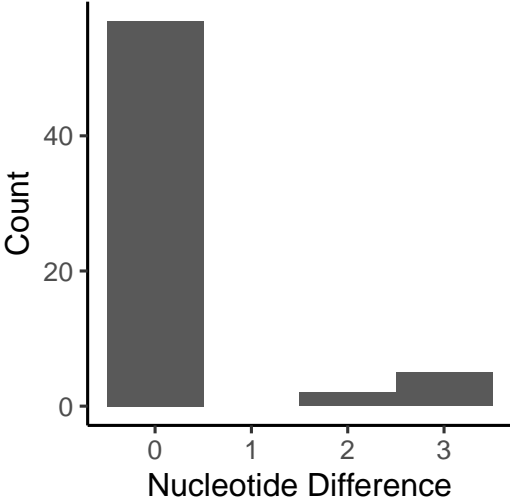
TRBV5-4\*ap01

1195 sequences assigned  
1186 (99.2%) exact matches, in which:  
1169 unique CDR3  
13 unique J



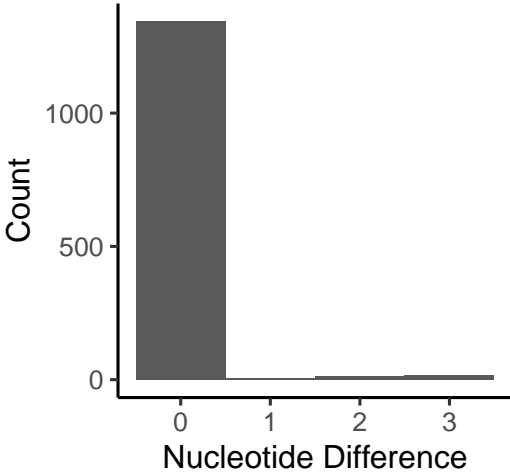
TRBV5-7\*ap01

64 sequences assigned  
57 (89.1%) exact matches, in which:  
55 unique CDR3  
12 unique J



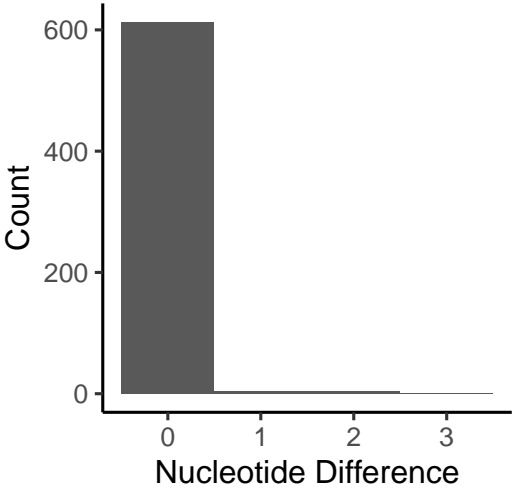
TRBV6-4\*ap01

1381 sequences assigned  
1344 (97.3%) exact matches, in which:  
1333 unique CDR3  
13 unique J



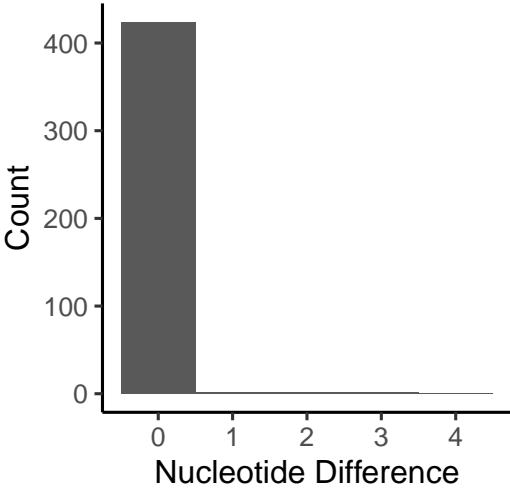
TRBV5-5\*ap01

622 sequences assigned  
613 (98.6%) exact matches, in which:  
604 unique CDR3  
13 unique J



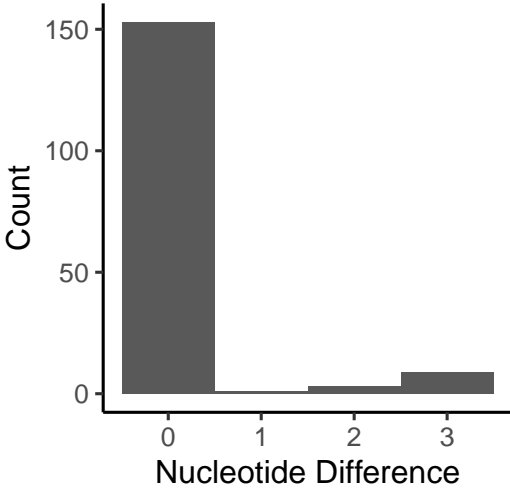
TRBV5-8\*ap01

431 sequences assigned  
424 (98.4%) exact matches, in which:  
419 unique CDR3  
13 unique J



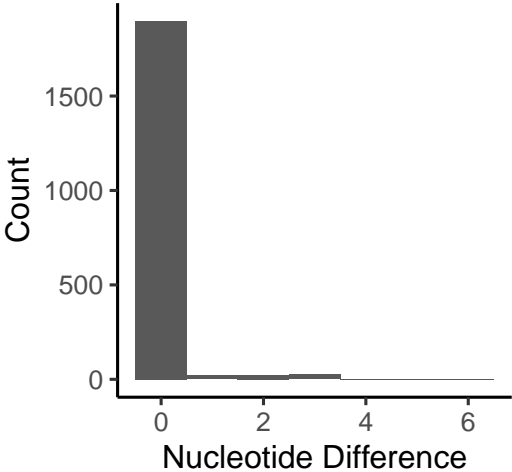
TRBV6-7\*ap01

166 sequences assigned  
153 (92.2%) exact matches, in which:  
149 unique CDR3  
13 unique J



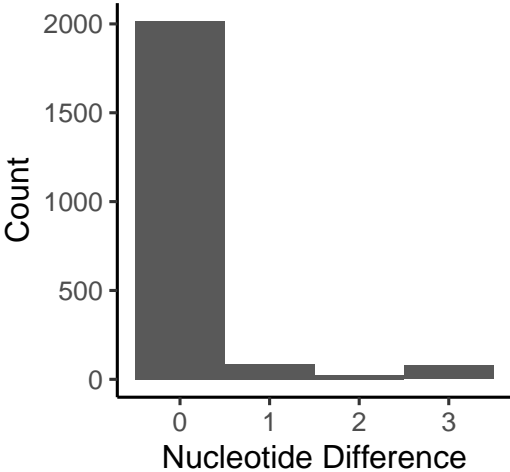
TRBV5-6\*ap01

1970 sequences assigned  
1897 (96.3%) exact matches, in which:  
1859 unique CDR3  
13 unique J



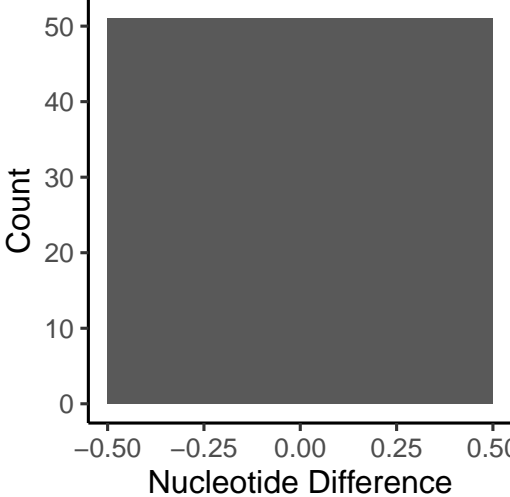
TRBV6-1\*ap01

2203 sequences assigned  
2016 (91.5%) exact matches, in which:  
1982 unique CDR3  
13 unique J



TRBV6-8\*ap01

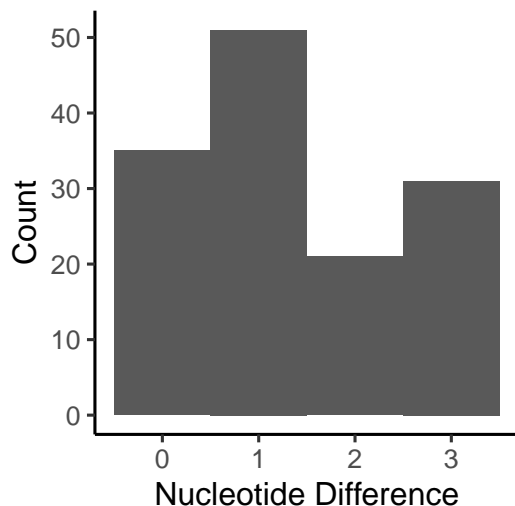
51 sequences assigned  
51 (100%) exact matches, in which:  
51 unique CDR3  
12 unique J





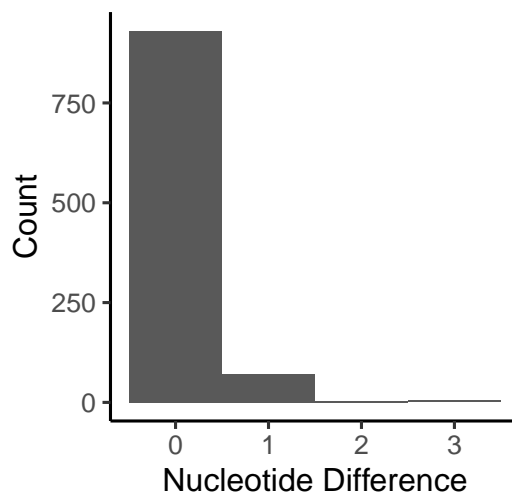
### TRBV6-9\*ap01

138 sequences assigned  
35 (25.4%) exact matches, in which:  
33 unique CDR3  
12 unique J



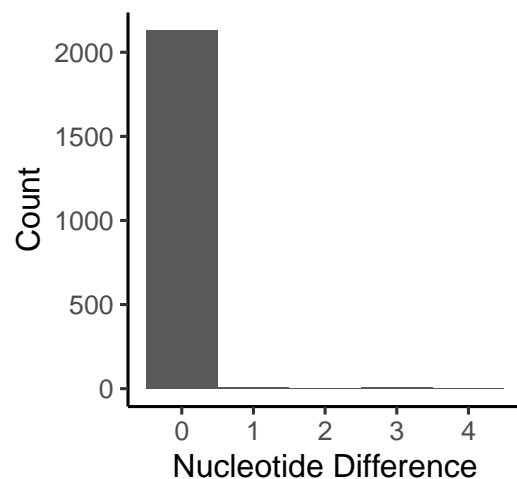
### TRBV6-56\*ap02

1010 sequences assigned  
931 (92.2%) exact matches, in which:  
911 unique CDR3  
13 unique J



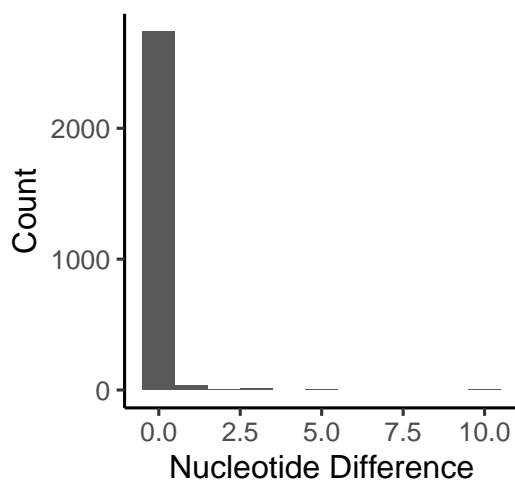
### TRBV7-3\*ap01

2148 sequences assigned  
2130 (99.2%) exact matches, in which:  
2105 unique CDR3  
13 unique J



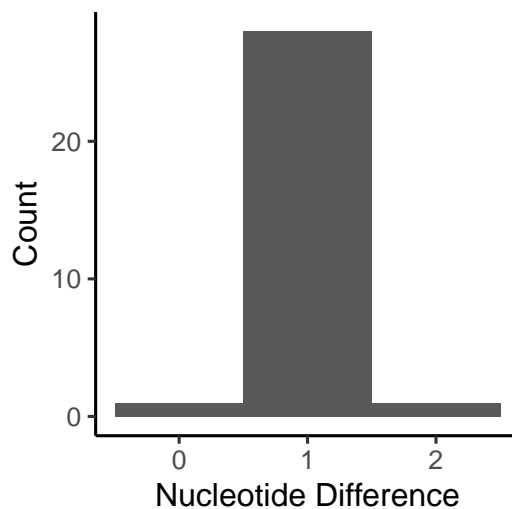
### TRBV6-23\*ap01

2791 sequences assigned  
2738 (98.1%) exact matches, in which:  
2686 unique CDR3  
13 unique J



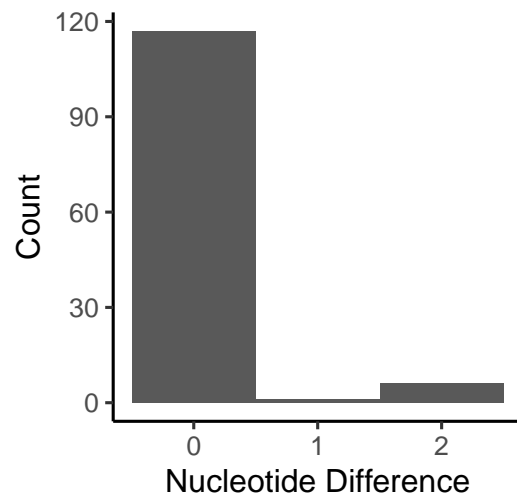
### TRBV7-1\*ap01\_T296C

30 sequences assigned  
1 (3.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



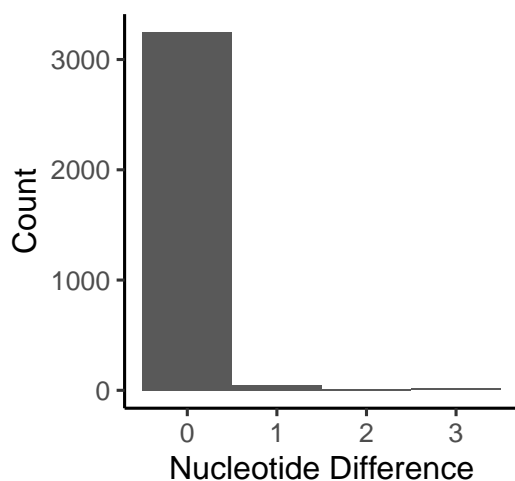
### TRBV7-4\*ap01

124 sequences assigned  
117 (94.4%) exact matches, in which:  
116 unique CDR3  
13 unique J



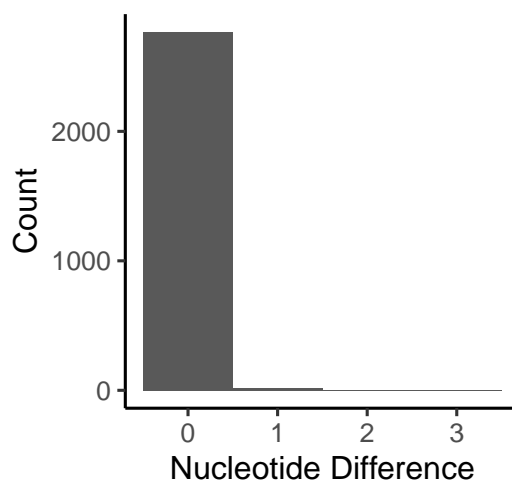
### TRBV6-56\*ap01

3324 sequences assigned  
3249 (97.7%) exact matches, in which:  
3162 unique CDR3  
13 unique J



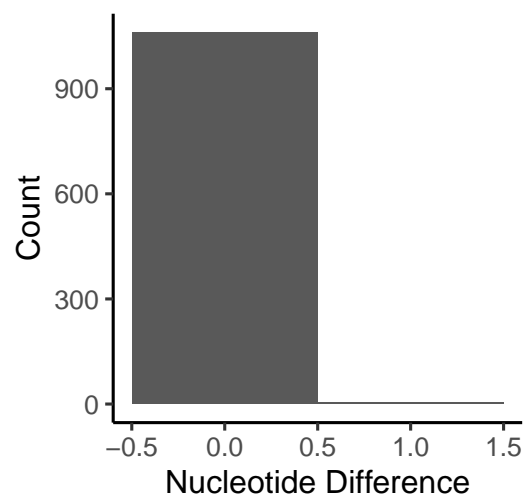
### TRBV7-2\*ap01

2792 sequences assigned  
2767 (99.1%) exact matches, in which:  
2734 unique CDR3  
13 unique J



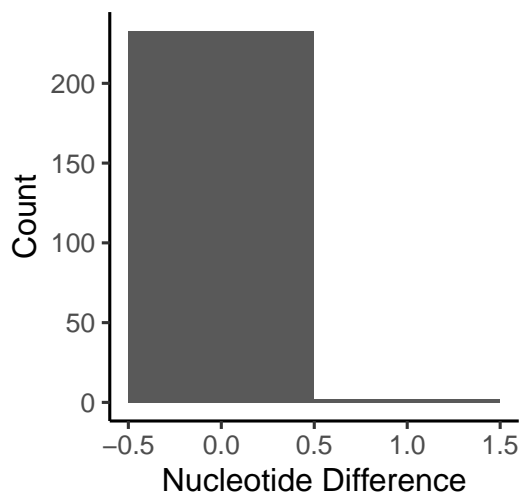
### TRBV7-6\*ap01

1066 sequences assigned  
1061 (99.5%) exact matches, in which:  
1049 unique CDR3  
13 unique J



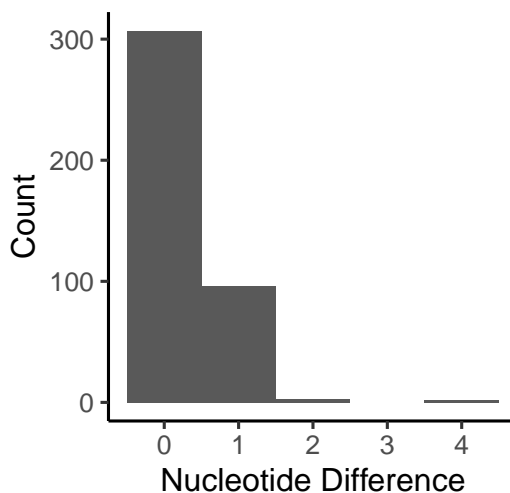
### TRBV7-7\*ap01

235 sequences assigned  
233 (99.1%) exact matches, in which:  
230 unique CDR3  
13 unique J



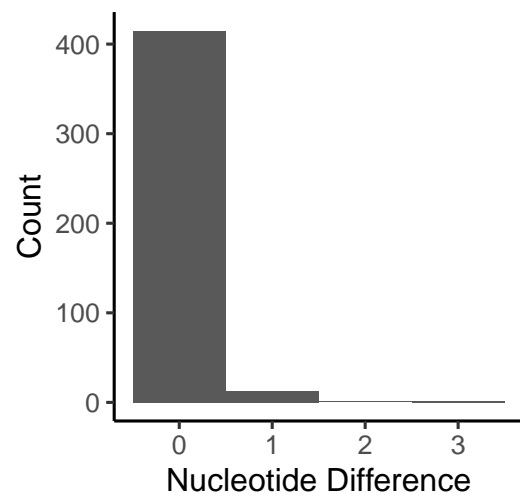
### TRBV7-8\*ap03

408 sequences assigned  
307 (75.2%) exact matches, in which:  
304 unique CDR3  
13 unique J



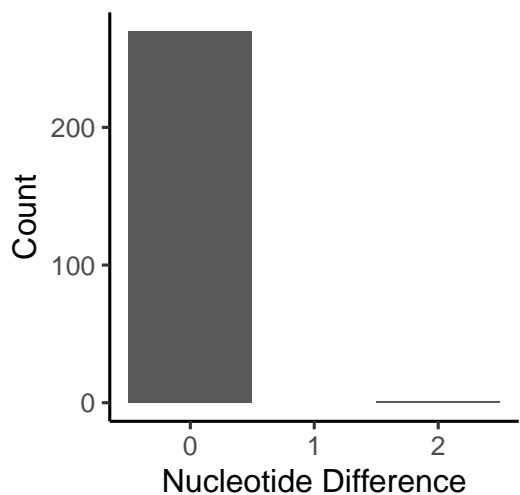
### TRBV29-1\*ap02

431 sequences assigned  
415 (96.3%) exact matches, in which:  
405 unique CDR3  
13 unique J



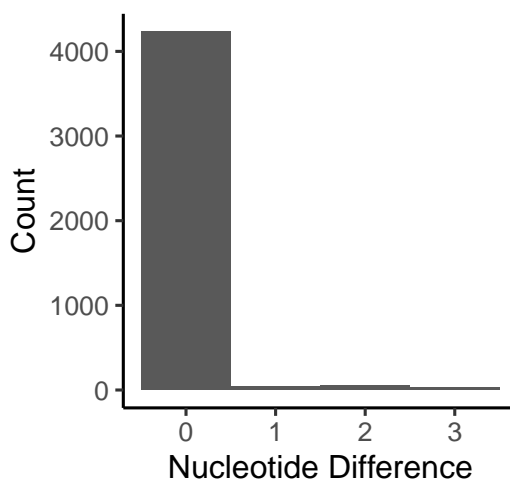
### TRBV7-7\*ap01\_C315T

271 sequences assigned  
270 (99.6%) exact matches, in which:  
266 unique CDR3  
13 unique J



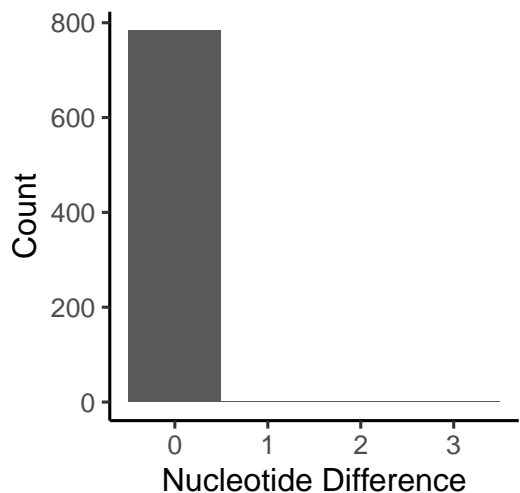
### TRBV7-9\*ap01

4359 sequences assigned  
4232 (97.1%) exact matches, in which:  
4163 unique CDR3  
14 unique J



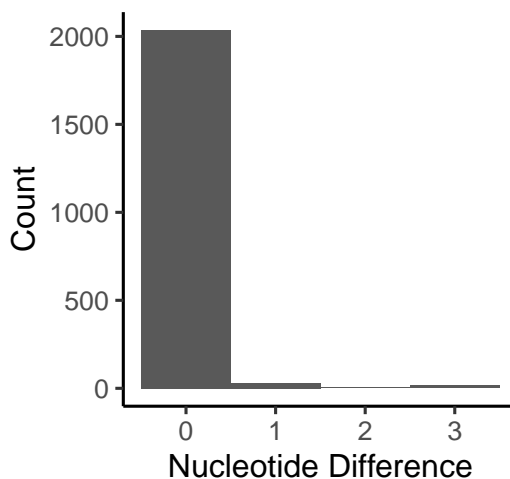
### TRBV7-8\*ap01

788 sequences assigned  
784 (99.5%) exact matches, in which:  
776 unique CDR3  
13 unique J

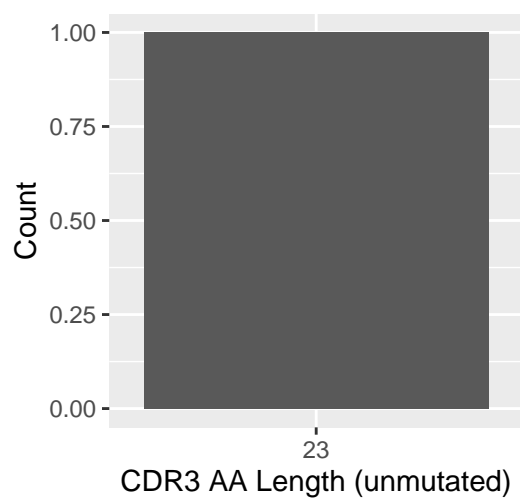


### TRBV29-1\*ap01

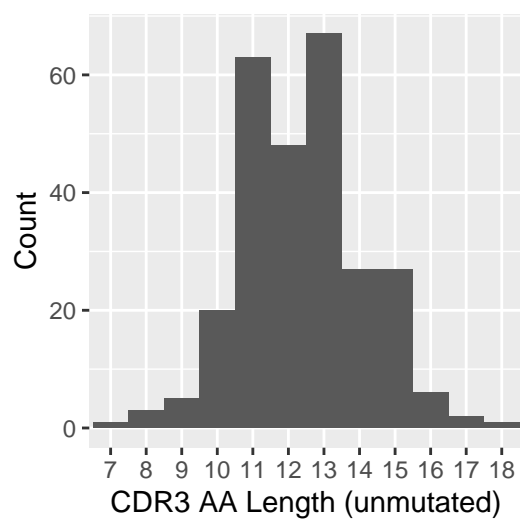
2088 sequences assigned  
2036 (97.5%) exact matches, in which:  
1981 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]