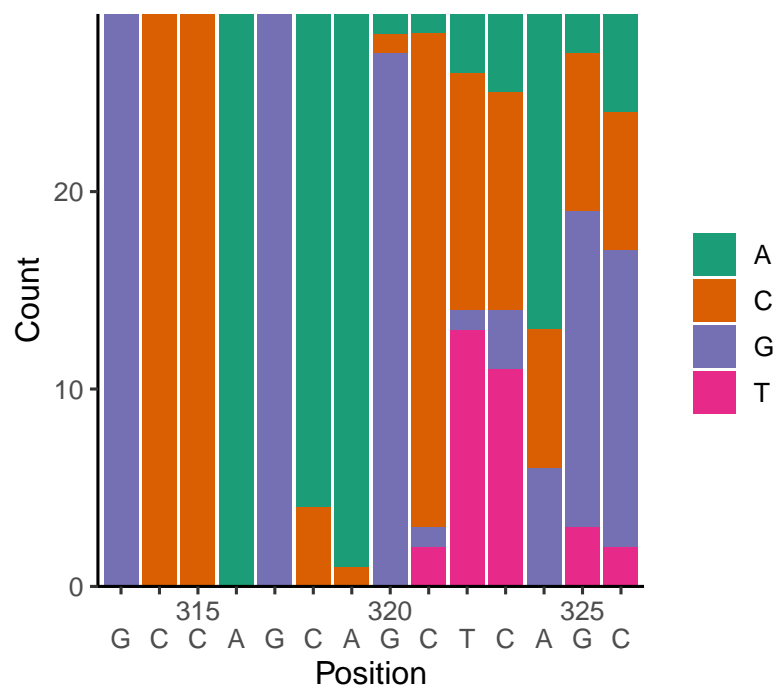
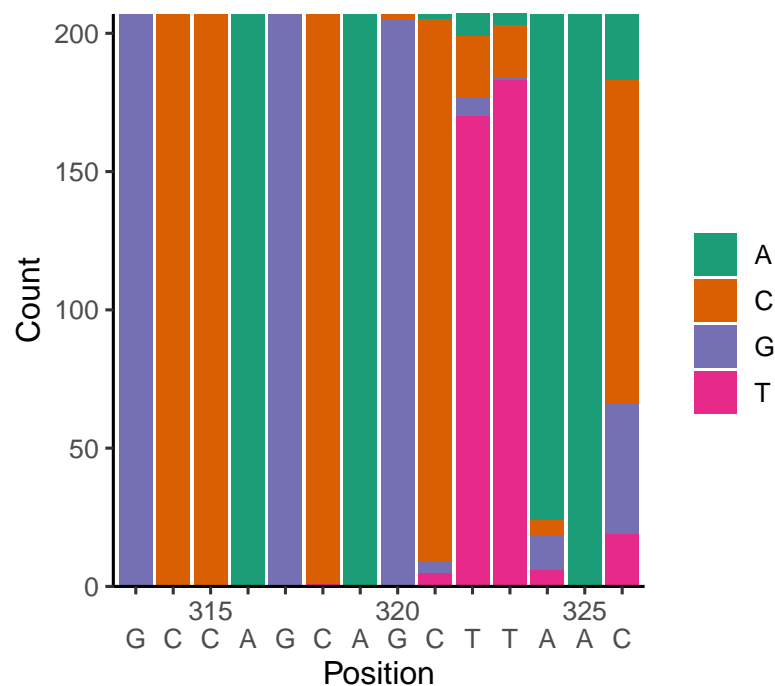


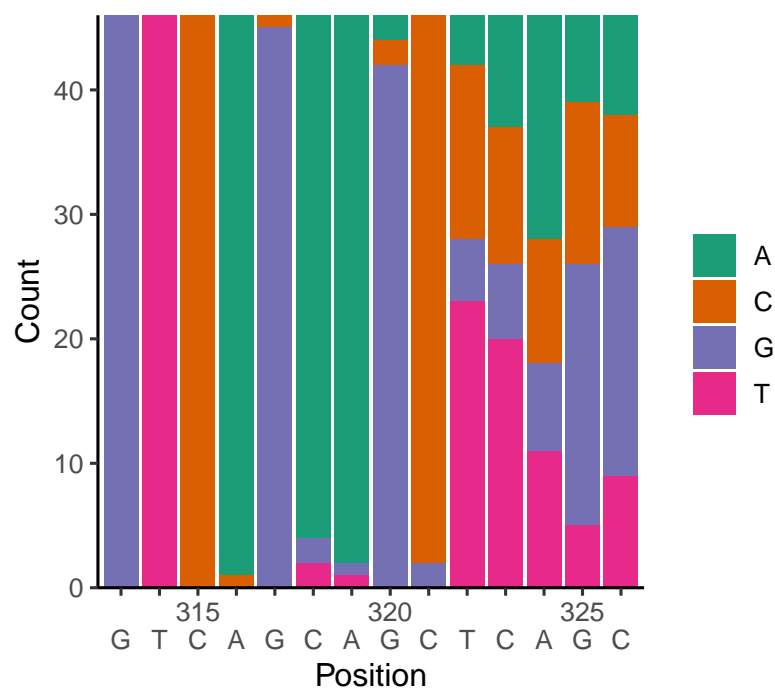
Gene TRBV7-1\*ap01\_G291C\_T296C



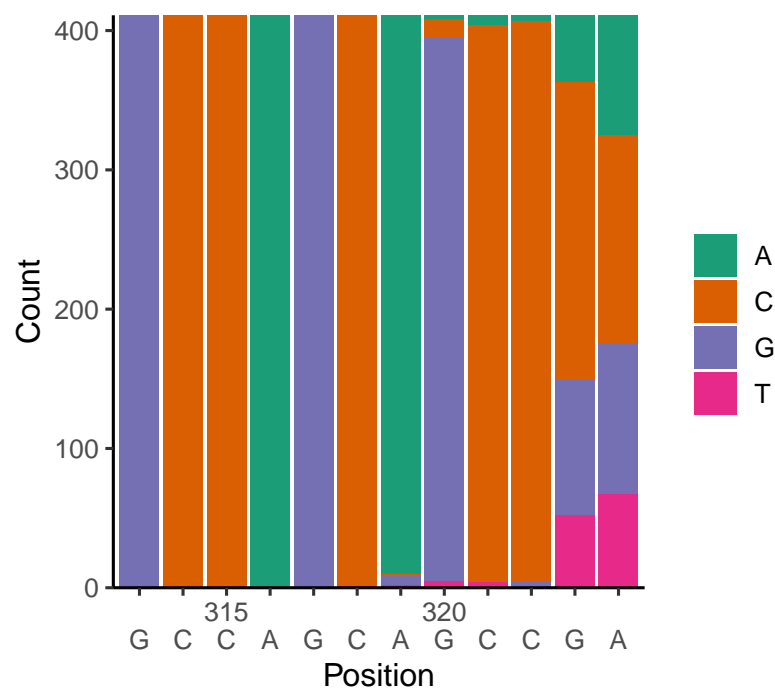
Gene TRBV7-3\*ap02\_G290A\_C310T



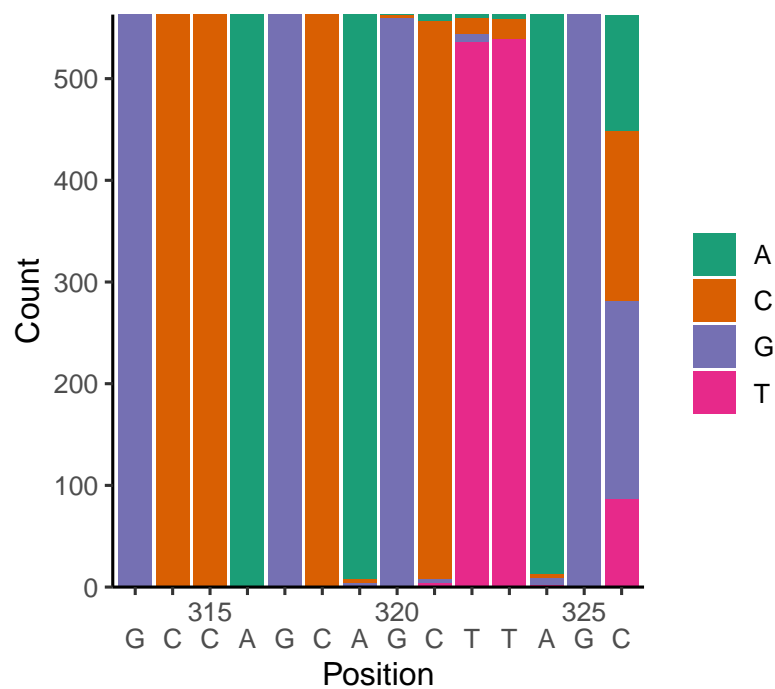
Gene TRBV7-1\*ap01\_G291C\_T296C\_C3



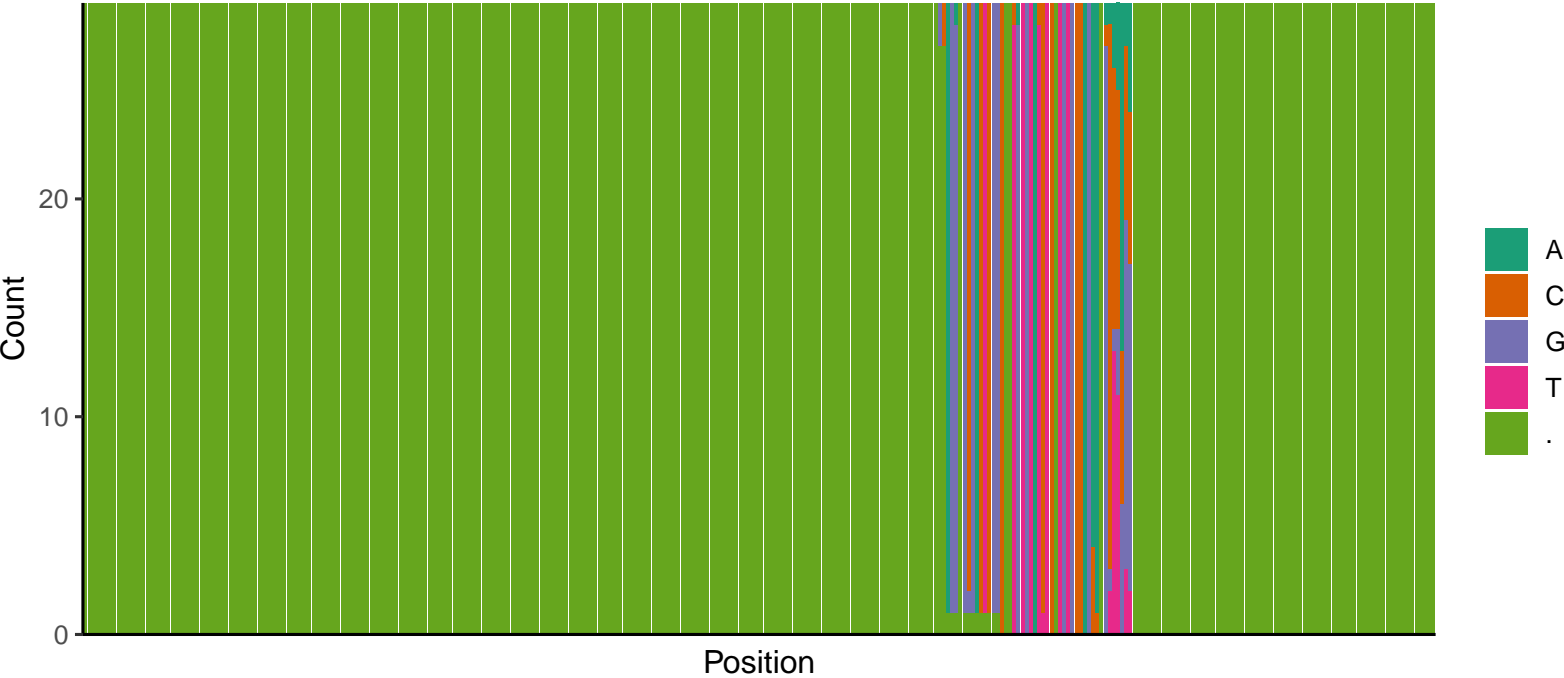
Gene TRBV7-8\*ap03\_C297A



Gene TRBV7-2\*ap01\_G297A



Gene TRBV7-1\*ap01\_G291C\_T296C



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



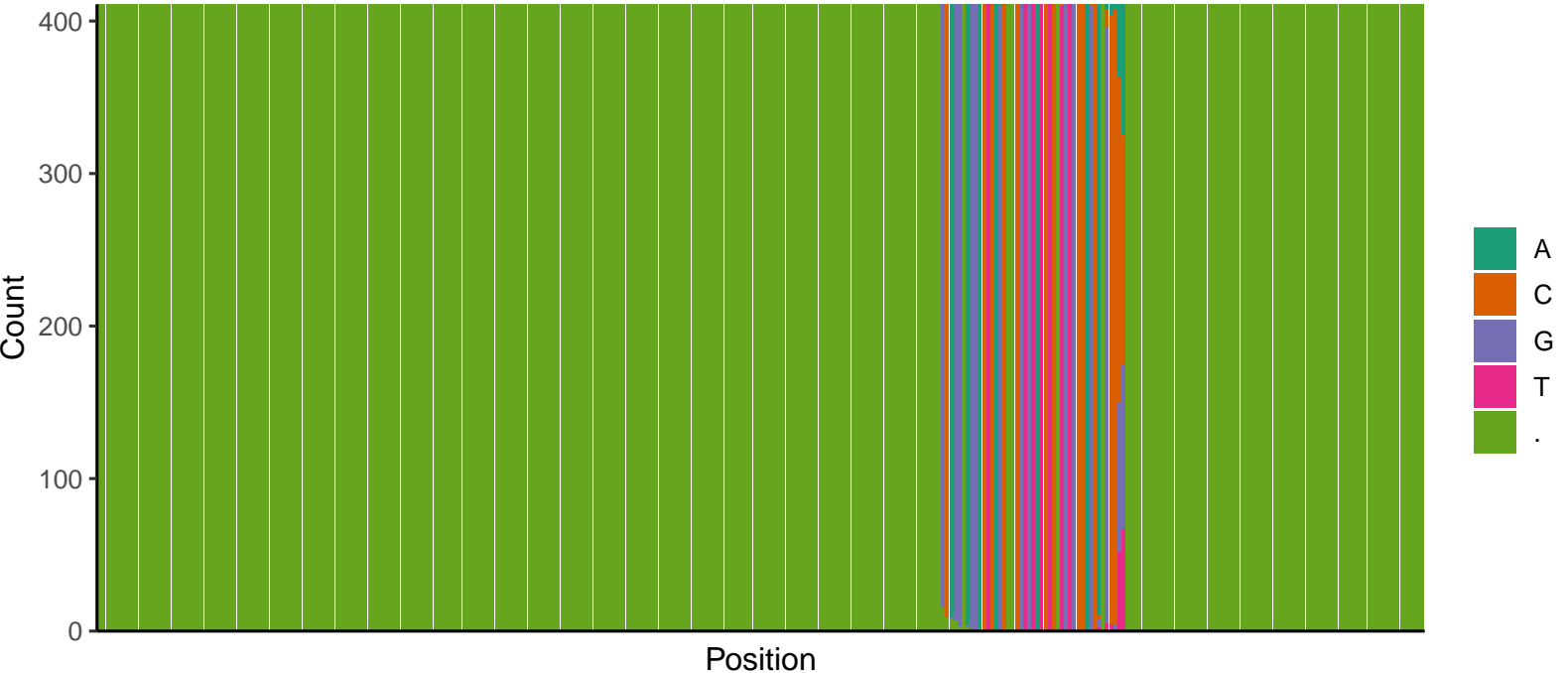
Gene TRBV7-2\*ap01\_G297A



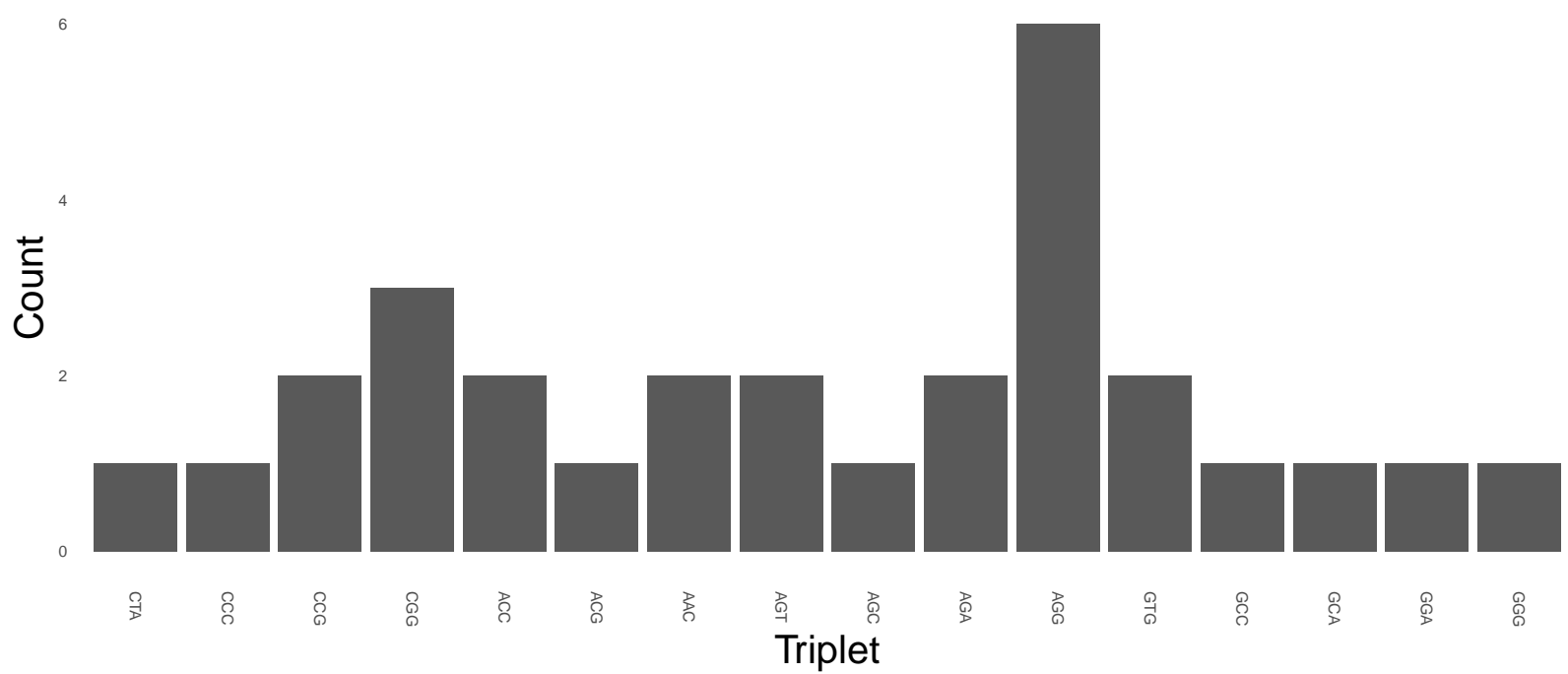
Gene TRBV7-3\*ap02\_G290A\_C310T



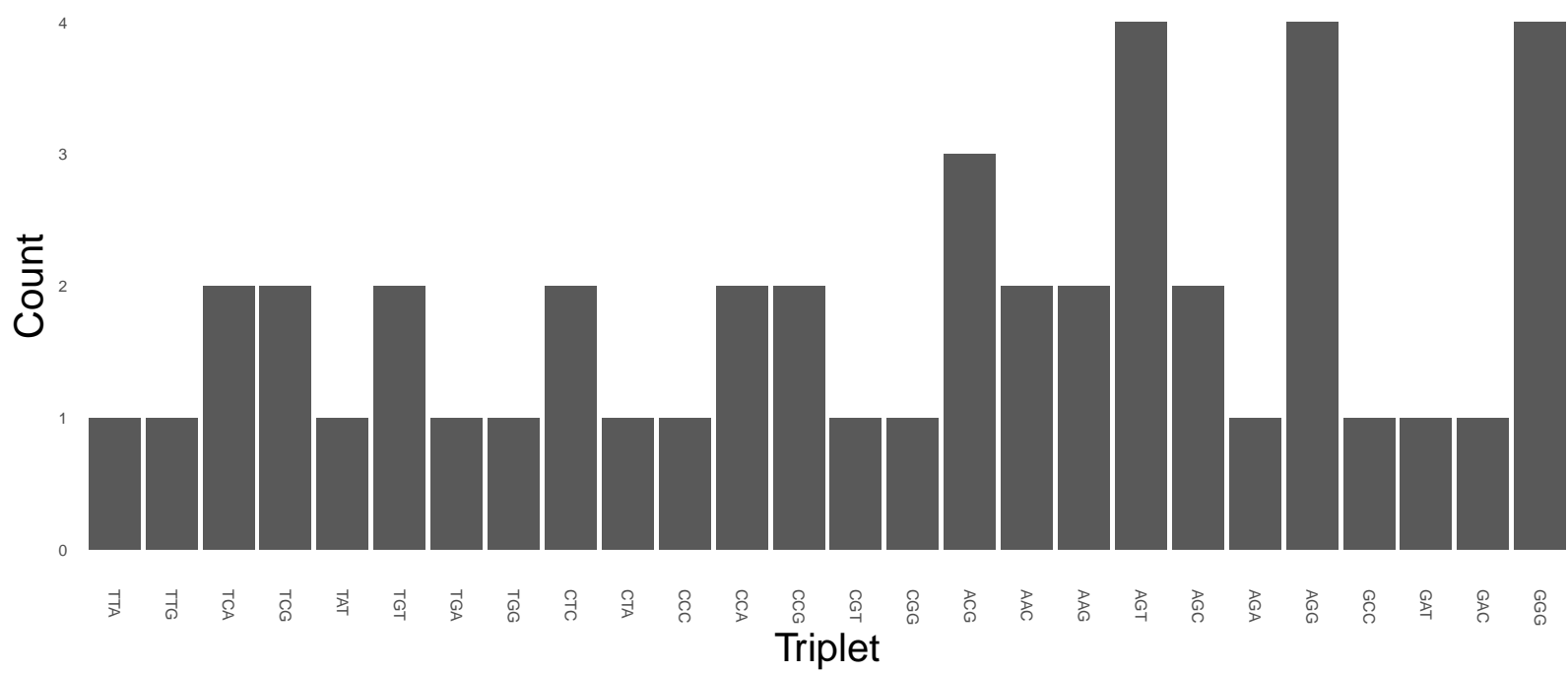
Gene TRBV7-8\*ap03\_C297A



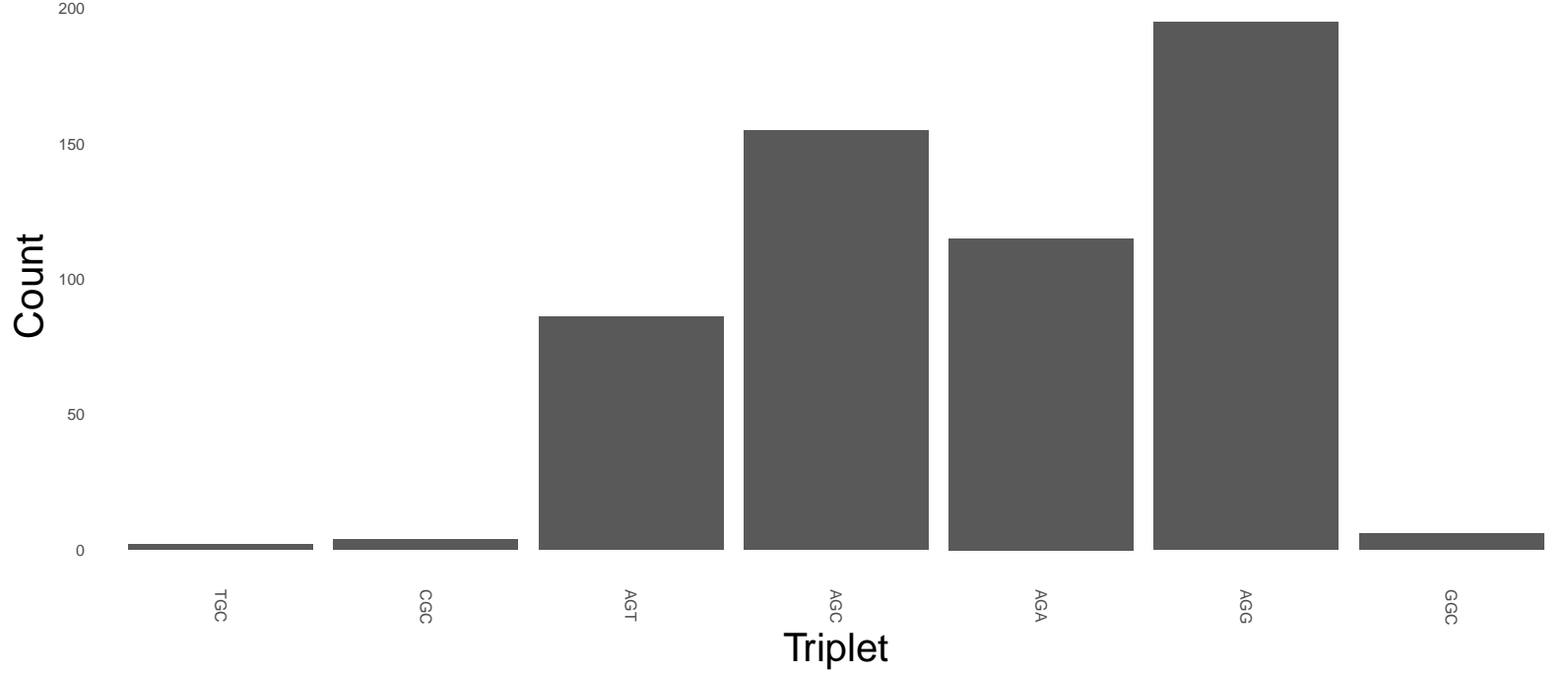
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



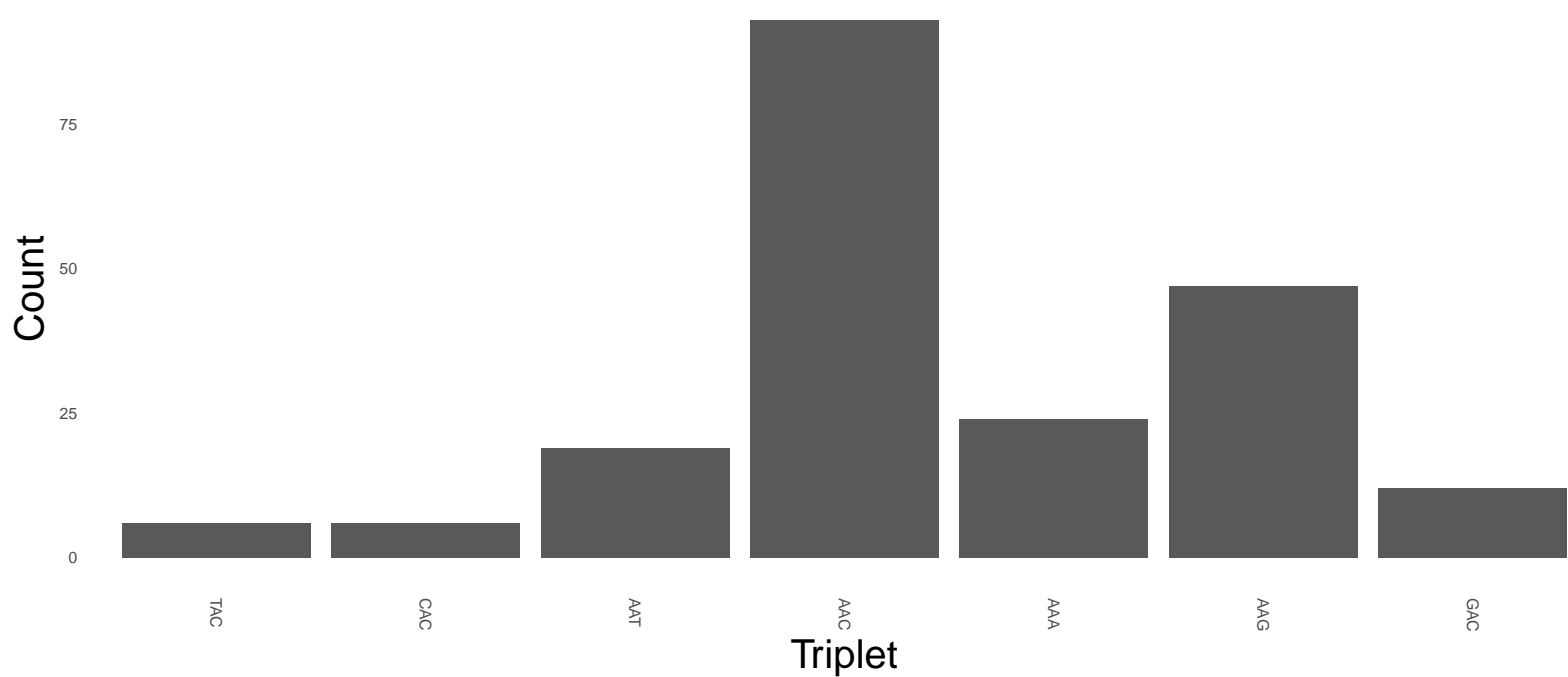
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



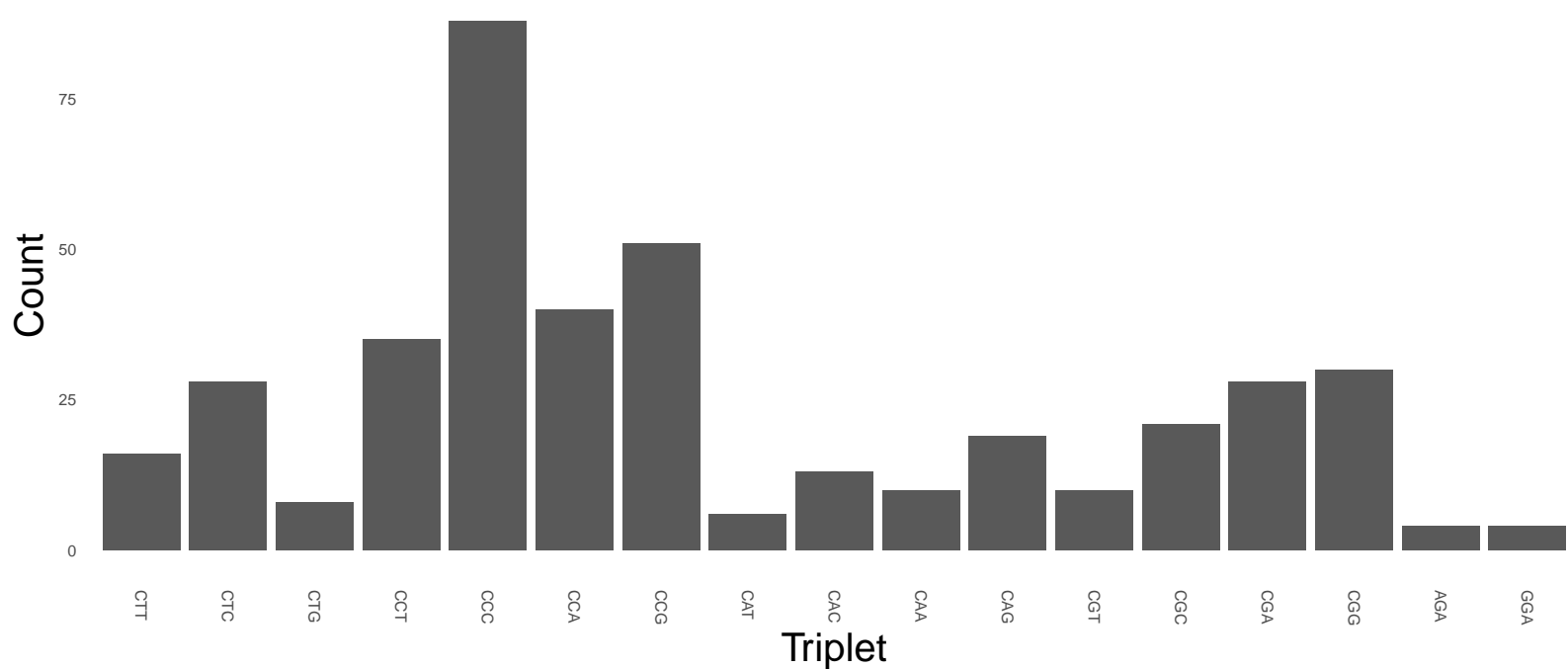
TRBV7-2\*ap01\_G297A- Final 3 nucleotides as a triplet



TRBV7-3\*ap02\_G290A\_C310T- Final 3 nucleotides as a triplet

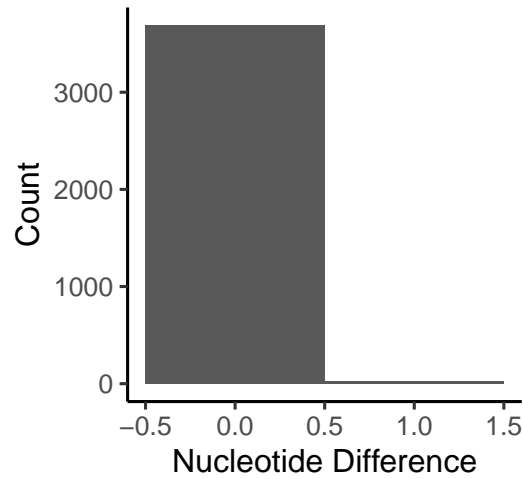


TRBV7-8\*ap03\_C297A- Final 3 nucleotides as a triplet



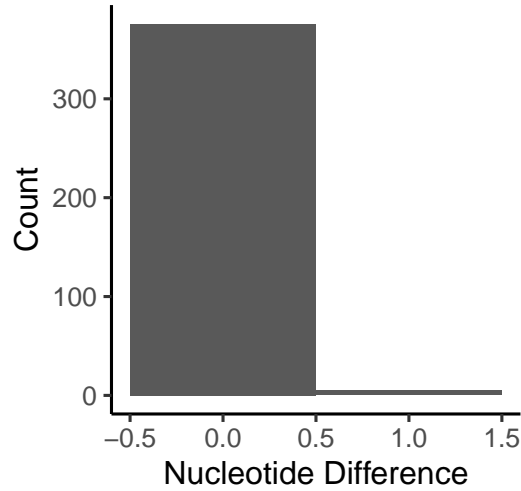
### TRBV20–1\*ap01

3716 sequences assigned  
3688 (99.2%) exact matches, in which:  
3674 unique CDR3  
13 unique J



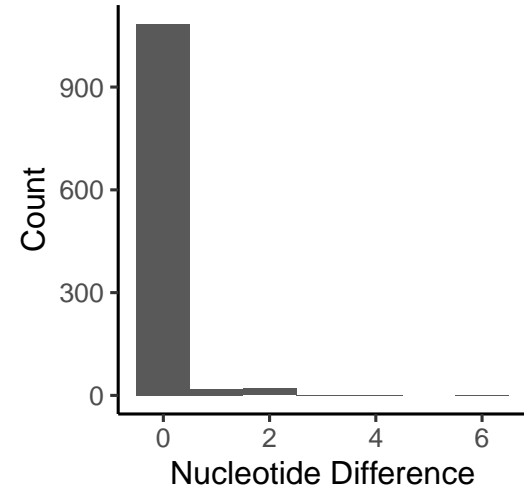
### TRBV10–2\*ap01

381 sequences assigned  
376 (98.7%) exact matches, in which:  
375 unique CDR3  
13 unique J



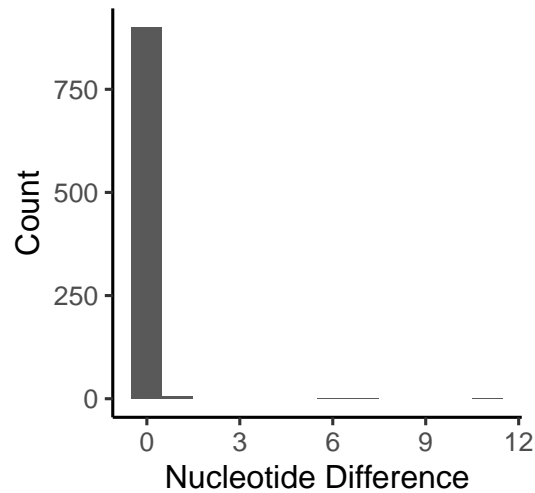
### TRBV13\*ap01

1127 sequences assigned  
1085 (96.3%) exact matches, in which:  
1079 unique CDR3  
13 unique J



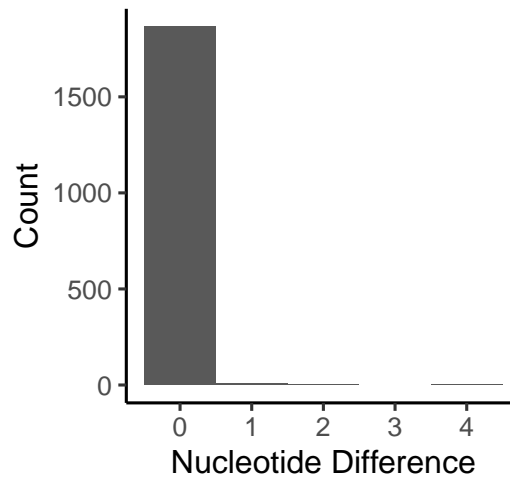
### TRBV10–1\*ap01

909 sequences assigned  
901 (99.1%) exact matches, in which:  
894 unique CDR3  
13 unique J



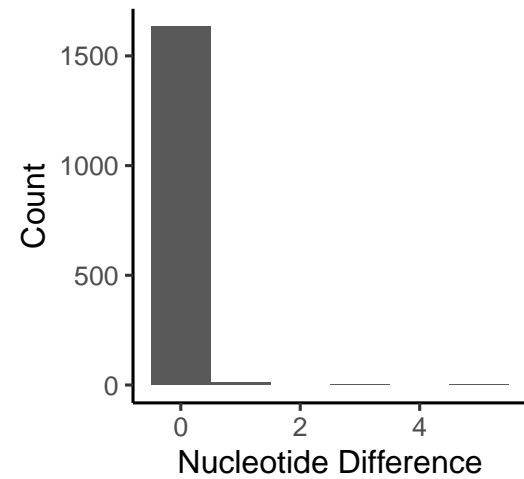
### TRBV10–3\*ap01

1877 sequences assigned  
1865 (99.4%) exact matches, in which:  
1855 unique CDR3  
13 unique J



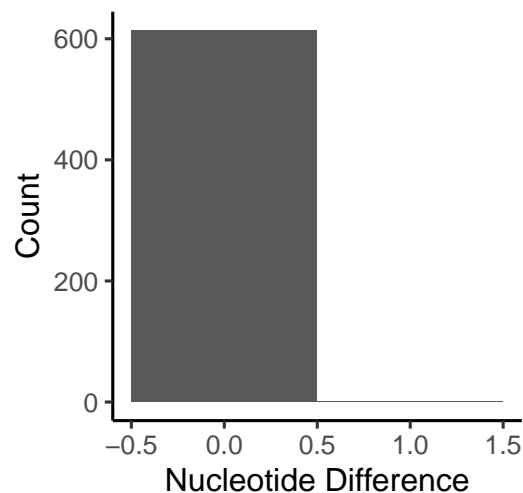
### TRBV14\*ap01

1646 sequences assigned  
1633 (99.2%) exact matches, in which:  
1624 unique CDR3  
13 unique J



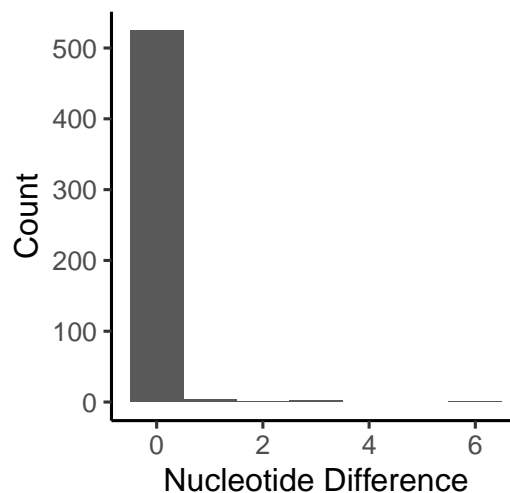
### TRBV20–1\*ap02

615 sequences assigned  
614 (99.8%) exact matches, in which:  
610 unique CDR3  
13 unique J



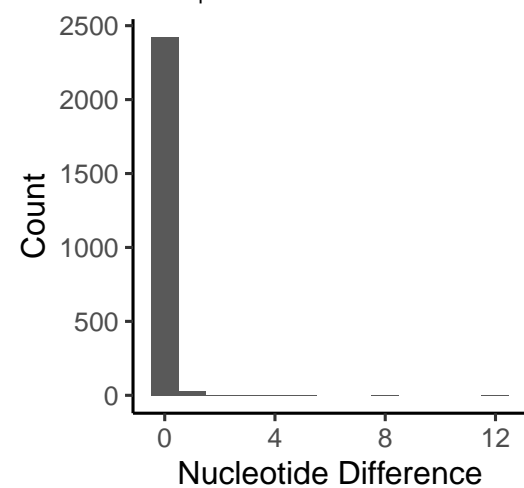
### TRBV1\*ap01

532 sequences assigned  
525 (98.7%) exact matches, in which:  
521 unique CDR3  
13 unique J



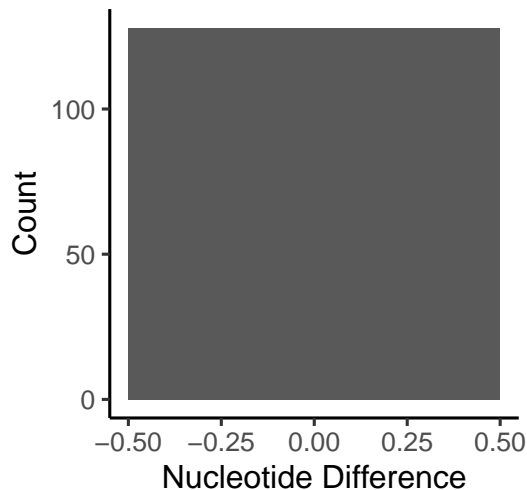
### TRBV15\*ap02

2457 sequences assigned  
2423 (98.6%) exact matches, in which:  
2411 unique CDR3  
13 unique J



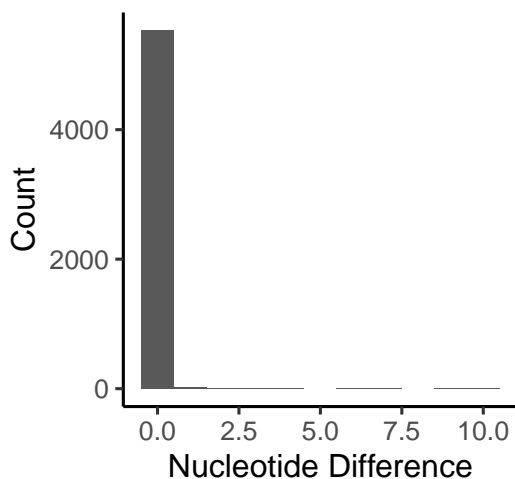
### TRBV16\*ap01

128 sequences assigned  
128 (100%) exact matches, in which:  
128 unique CDR3  
13 unique J



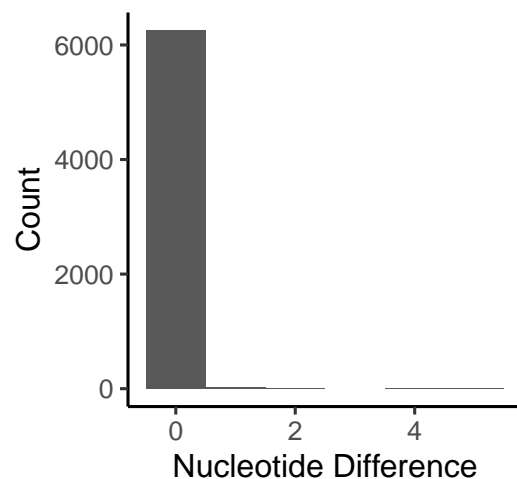
### TRBV19\*ap01

5575 sequences assigned  
5533 (99.2%) exact matches, in which:  
5522 unique CDR3  
13 unique J



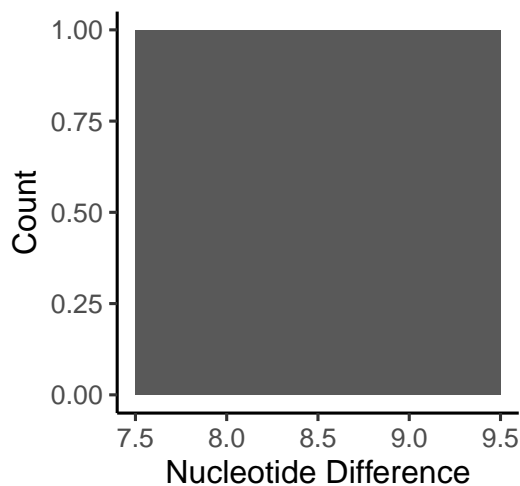
### TRBV28\*ap01

6284 sequences assigned  
6254 (99.5%) exact matches, in which:  
6216 unique CDR3  
13 unique J



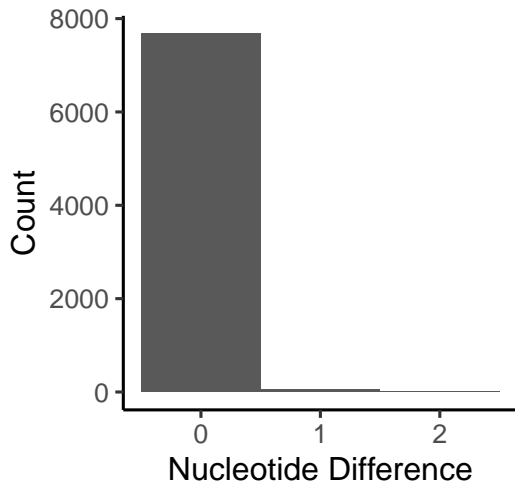
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



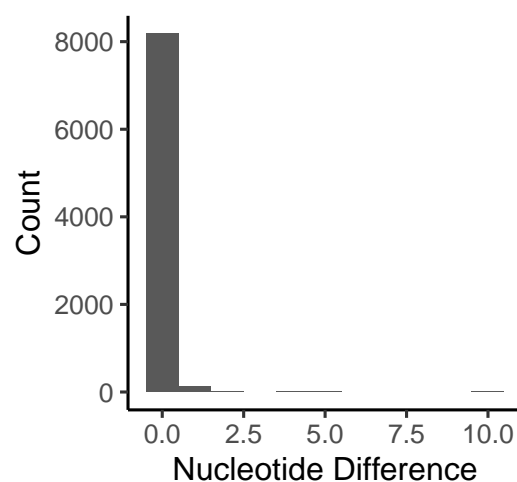
### TRBV2\*ap01

7725 sequences assigned  
7676 (99.4%) exact matches, in which:  
7636 unique CDR3  
13 unique J



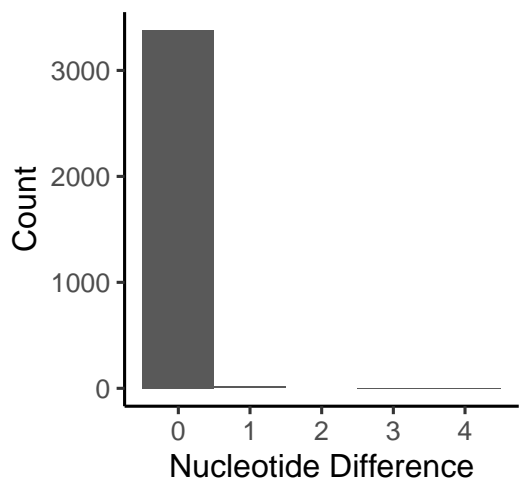
### TRBV30\*ap01

8308 sequences assigned  
8181 (98.5%) exact matches, in which:  
8095 unique CDR3  
13 unique J



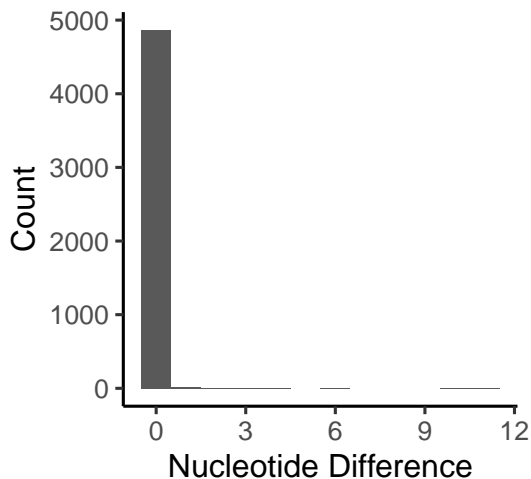
### TRBV18\*ap01

3400 sequences assigned  
3381 (99.4%) exact matches, in which:  
3367 unique CDR3  
13 unique J



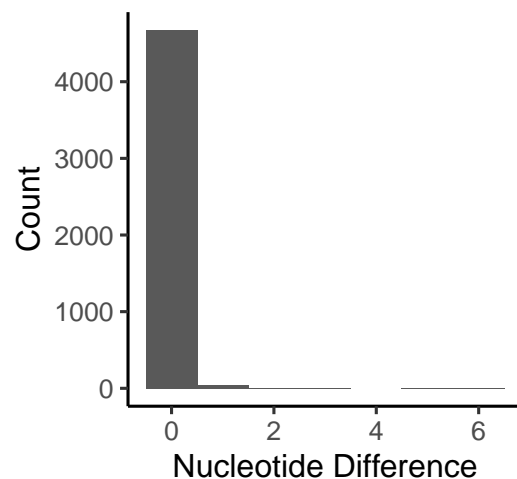
### TRBV27\*ap01

4898 sequences assigned  
4865 (99.3%) exact matches, in which:  
4835 unique CDR3  
13 unique J



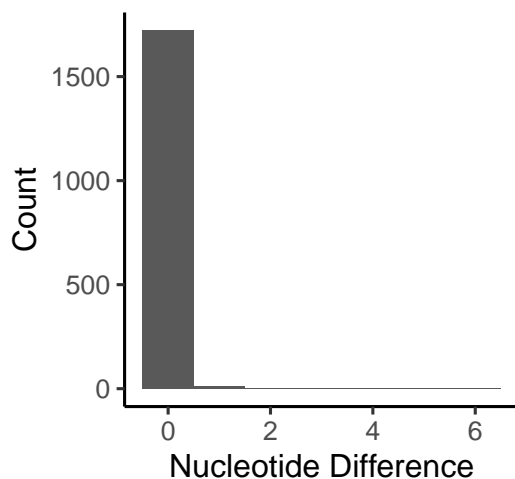
### TRBV9\*ap01

4725 sequences assigned  
4674 (98.9%) exact matches, in which:  
4655 unique CDR3  
13 unique J



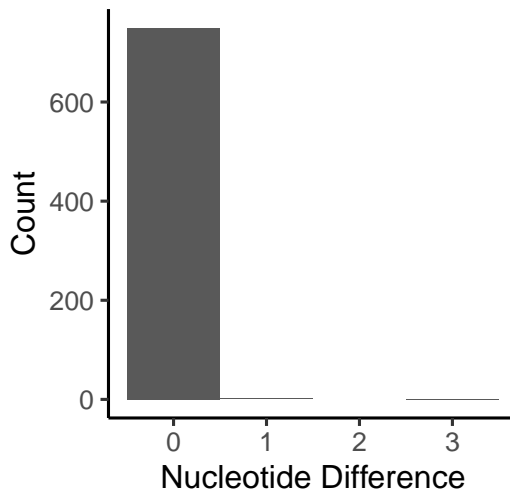
### TRBV21-1\*ap01

1741 sequences assigned  
1722 (98.9%) exact matches, in which:  
1718 unique CDR3  
13 unique J



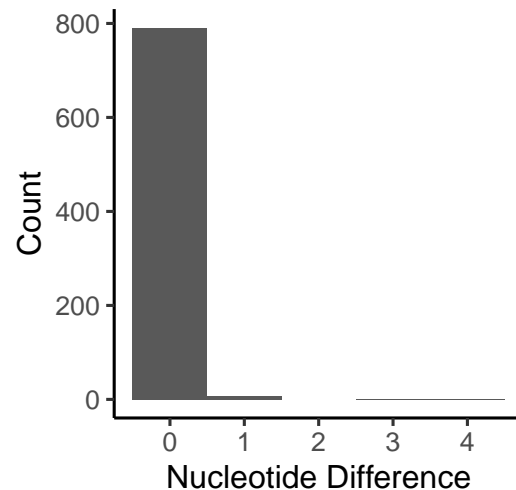
### TRBV11-3\*ap01

753 sequences assigned  
750 (99.6%) exact matches, in which:  
748 unique CDR3  
13 unique J



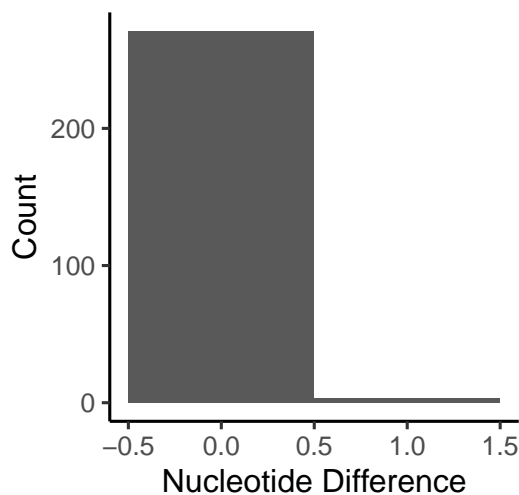
### TRBV12-5\*ap01

800 sequences assigned  
791 (98.9%) exact matches, in which:  
787 unique CDR3  
13 unique J



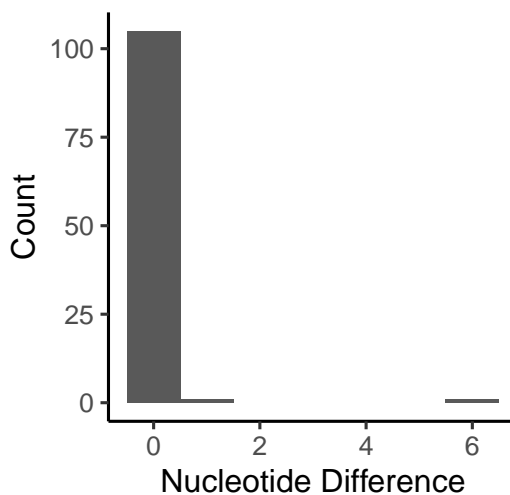
### TRBV11-1\*ap01

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



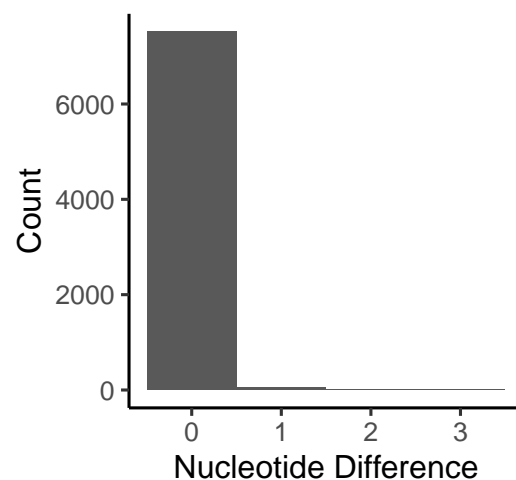
### TRBV12-1\*ap01

107 sequences assigned  
105 (98.1%) exact matches, in which:  
104 unique CDR3  
11 unique J



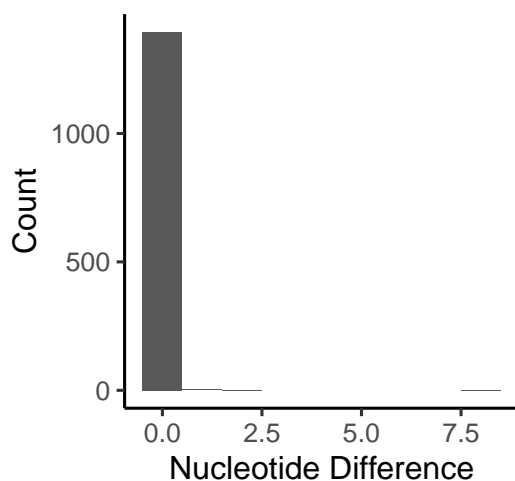
### TRBV12-34\*ap01

7582 sequences assigned  
7516 (99.1%) exact matches, in which:  
7482 unique CDR3  
13 unique J



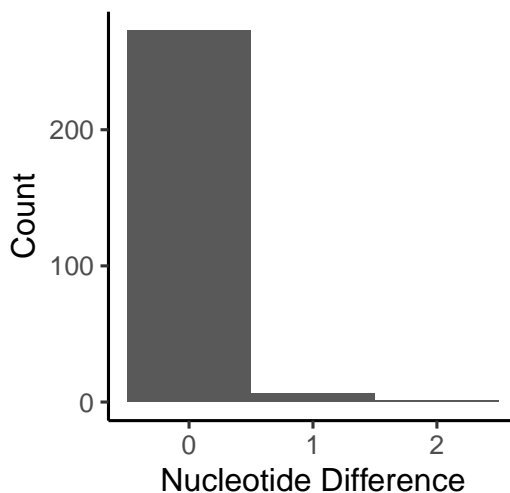
### TRBV11-2\*ap01

1400 sequences assigned  
1395 (99.6%) exact matches, in which:  
1391 unique CDR3  
13 unique J



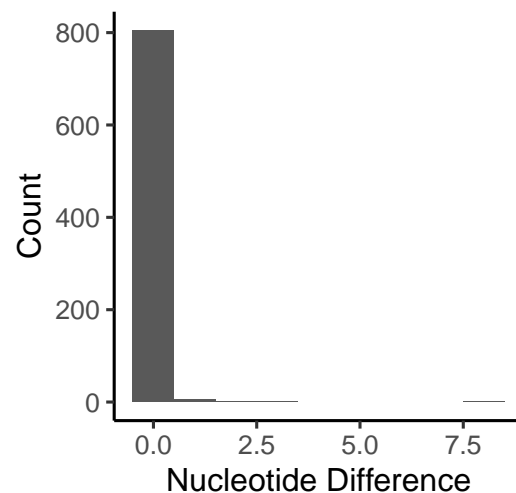
### TRBV12-2\*ap01

280 sequences assigned  
273 (97.5%) exact matches, in which:  
271 unique CDR3  
13 unique J



### TRBV23-1\*ap01

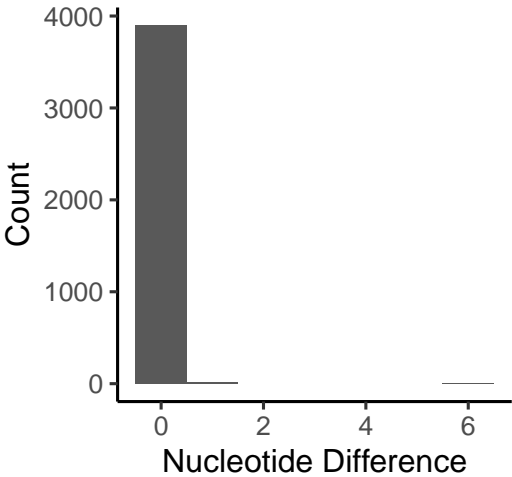
813 sequences assigned  
805 (99%) exact matches, in which:  
801 unique CDR3  
13 unique J





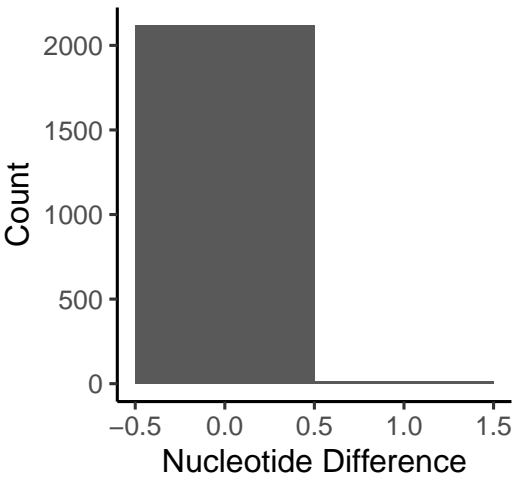
TRBV3-12\*ap01

3912 sequences assigned  
3898 (99.6%) exact matches, in which:  
3884 unique CDR3  
14 unique J



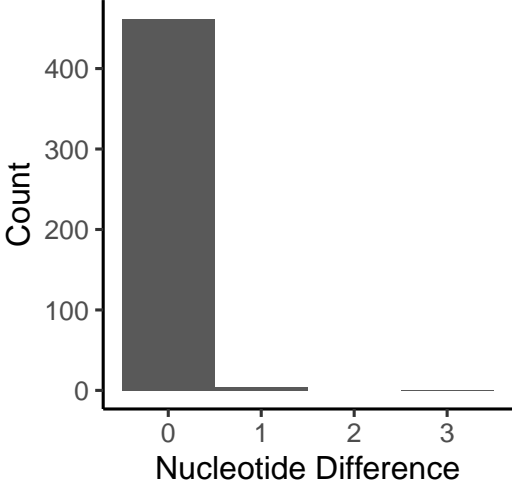
TRBV4-2\*ap01

2135 sequences assigned  
2118 (99.2%) exact matches, in which:  
2108 unique CDR3  
13 unique J



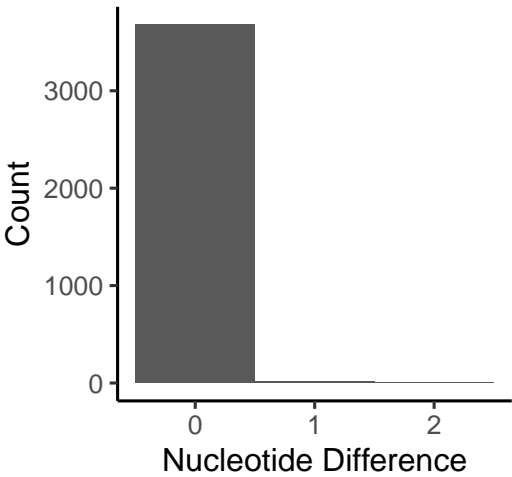
TRBV5-3\*ap01

467 sequences assigned  
462 (98.9%) exact matches, in which:  
460 unique CDR3  
13 unique J



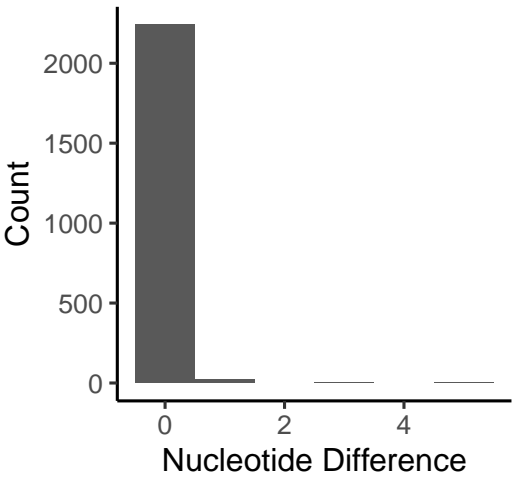
TRBV4-1\*ap01

3694 sequences assigned  
3678 (99.6%) exact matches, in which:  
3655 unique CDR3  
13 unique J



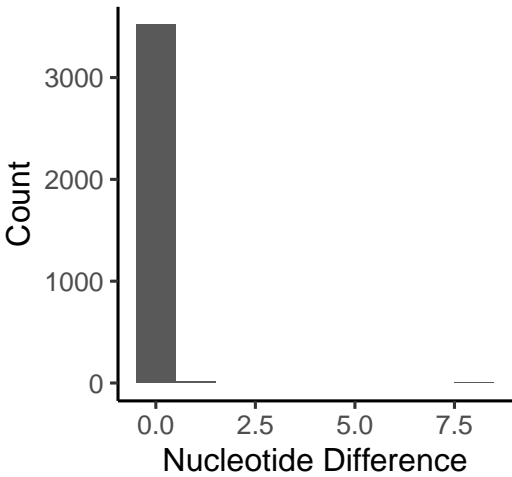
TRBV25-1\*ap01

2262 sequences assigned  
2241 (99.1%) exact matches, in which:  
2224 unique CDR3  
13 unique J



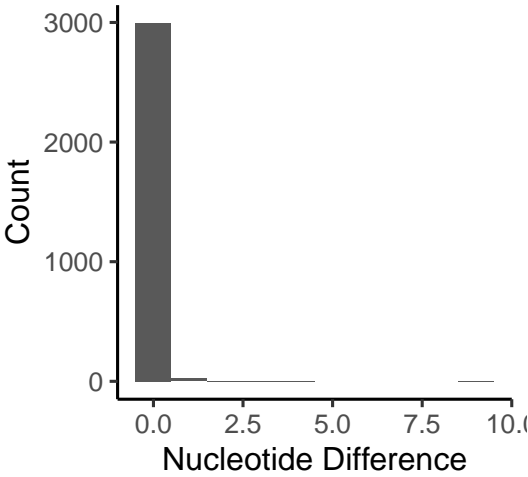
TRBV5-4\*ap01

3536 sequences assigned  
3519 (99.5%) exact matches, in which:  
3495 unique CDR3  
13 unique J



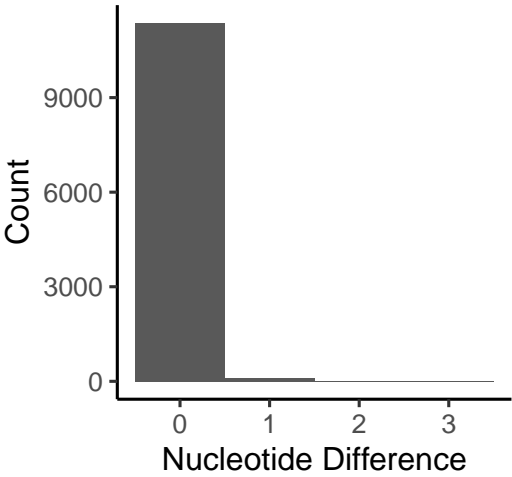
TRBV24-1\*ap01

3028 sequences assigned  
2995 (98.9%) exact matches, in which:  
2971 unique CDR3  
13 unique J



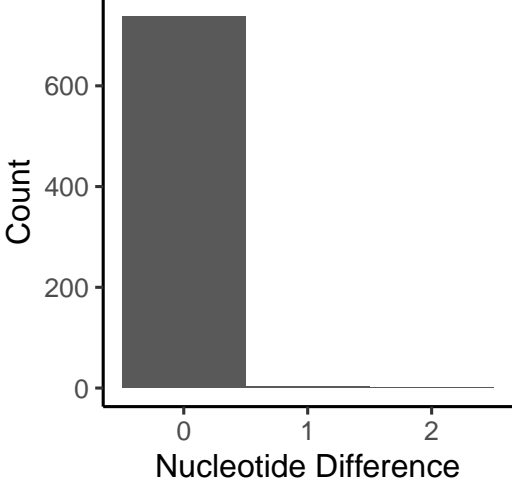
TRBV5-1\*ap01

11469 sequences assigned  
11365 (99.1%) exact matches, in which:  
11285 unique CDR3  
13 unique J



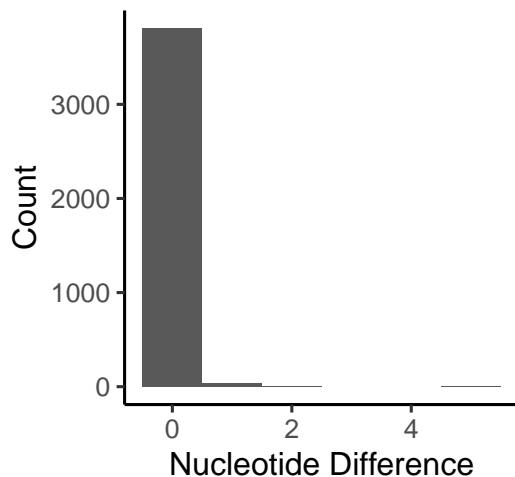
TRBV5-5\*ap01

742 sequences assigned  
738 (99.5%) exact matches, in which:  
737 unique CDR3  
13 unique J



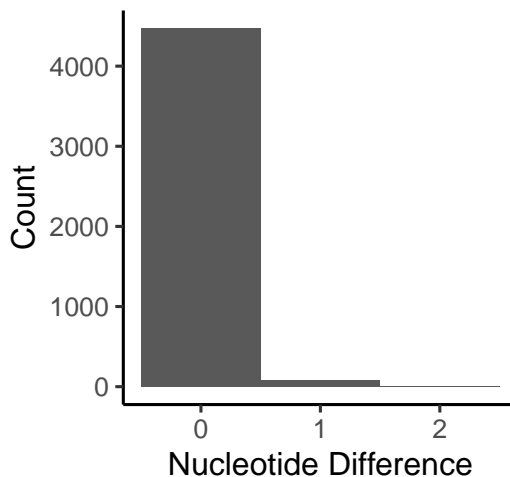
### TRBV5-6\*ap01

3850 sequences assigned  
3807 (98.9%) exact matches, in which:  
3776 unique CDR3  
13 unique J



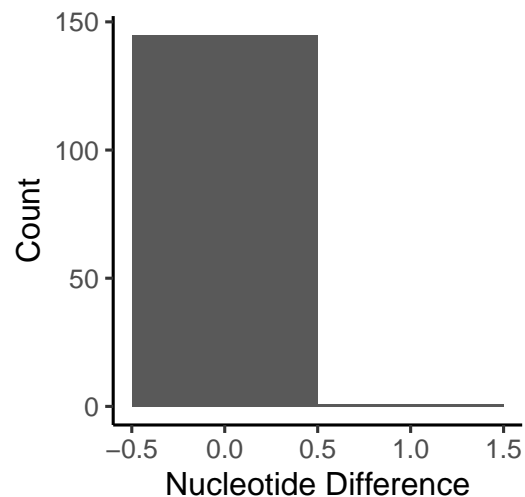
### TRBV6-1\*ap01

4553 sequences assigned  
4471 (98.2%) exact matches, in which:  
4435 unique CDR3  
13 unique J



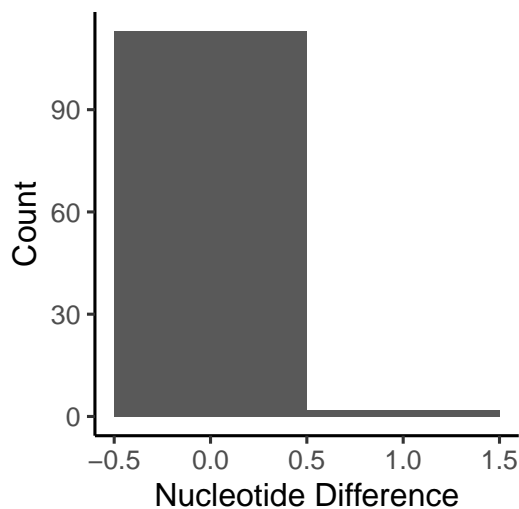
### TRBV6-8\*ap01

146 sequences assigned  
145 (99.3%) exact matches, in which:  
144 unique CDR3  
13 unique J



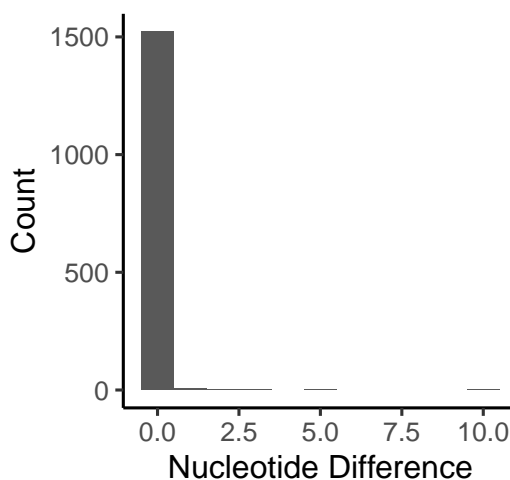
### TRBV5-7\*ap01

115 sequences assigned  
113 (98.3%) exact matches, in which:  
112 unique CDR3  
13 unique J



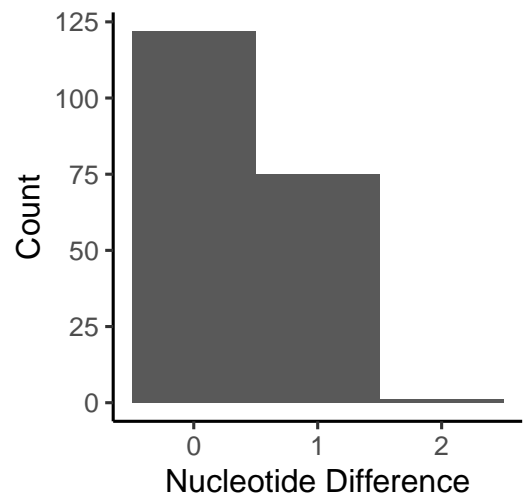
### TRBV6-4\*ap01

1535 sequences assigned  
1522 (99.2%) exact matches, in which:  
1514 unique CDR3  
13 unique J



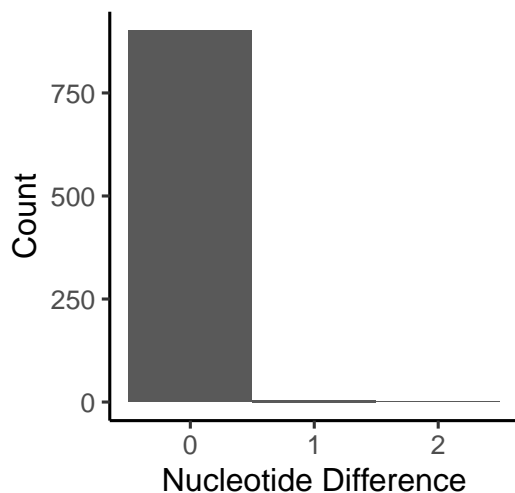
### TRBV6-9\*ap01

198 sequences assigned  
122 (61.6%) exact matches, in which:  
122 unique CDR3  
13 unique J



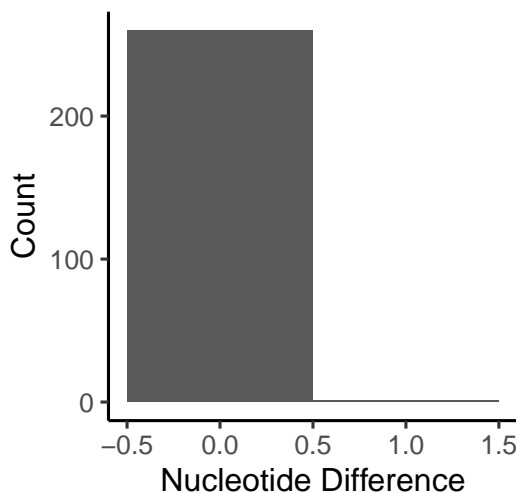
### TRBV5-8\*ap01

908 sequences assigned  
902 (99.3%) exact matches, in which:  
898 unique CDR3  
13 unique J



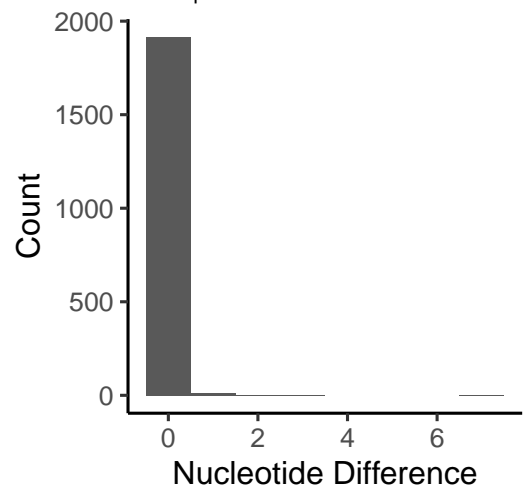
### TRBV6-7\*ap01

261 sequences assigned  
260 (99.6%) exact matches, in which:  
258 unique CDR3  
13 unique J



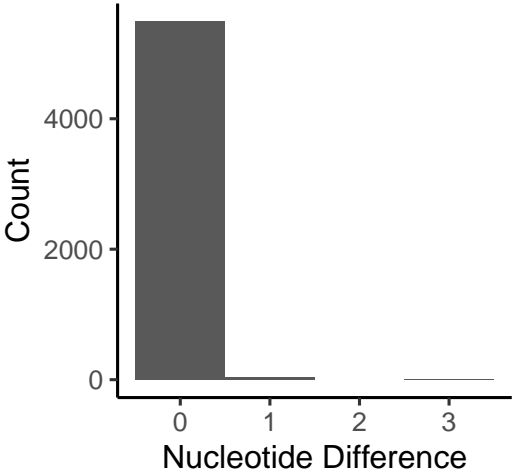
### TRBV6-23\*ap01

1930 sequences assigned  
1915 (99.2%) exact matches, in which:  
1897 unique CDR3  
13 unique J



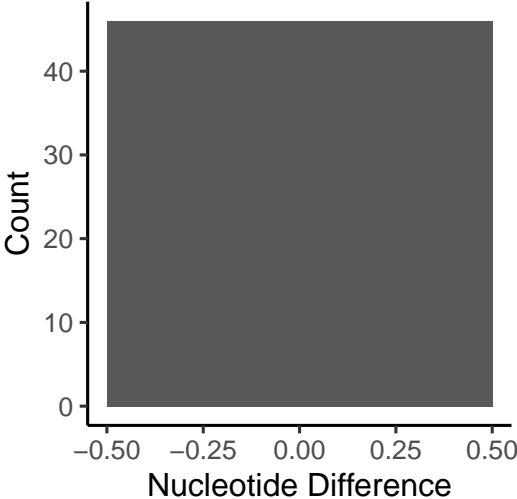
TRBV6-56\*ap01

5536 sequences assigned  
5492 (99.2%) exact matches, in which:  
5459 unique CDR3  
13 unique J



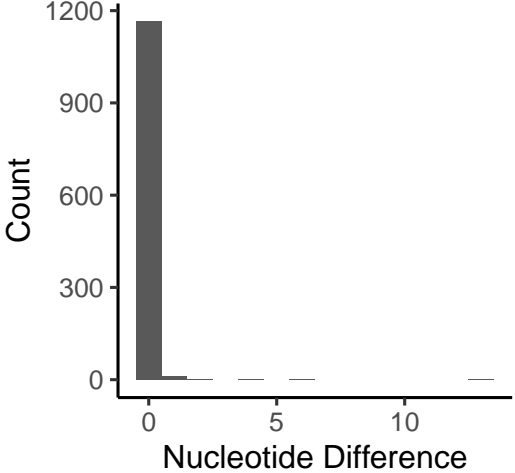
TRBV7-1\*ap01\_G291C\_T

46 sequences assigned  
46 (100%) exact matches, in which:  
46 unique CDR3  
10 unique J



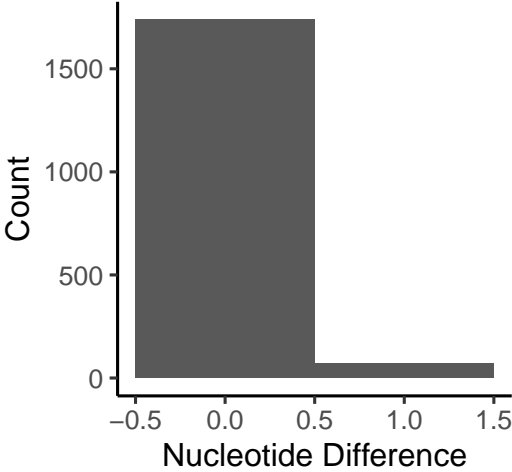
TRBV7-3\*ap01

1181 sequences assigned  
1165 (98.6%) exact matches, in which:  
1161 unique CDR3  
13 unique J



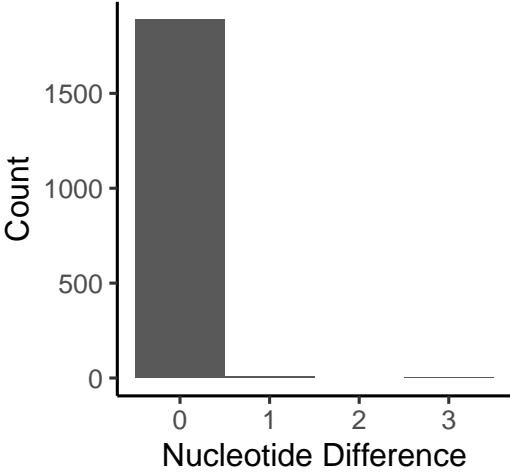
TRBV6-56\*ap02

1807 sequences assigned  
1738 (96.2%) exact matches, in which:  
1732 unique CDR3  
13 unique J



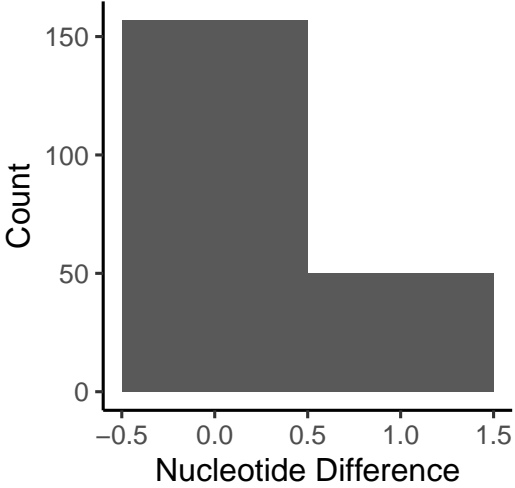
TRBV7-2\*ap01

1895 sequences assigned  
1888 (99.6%) exact matches, in which:  
1877 unique CDR3  
13 unique J



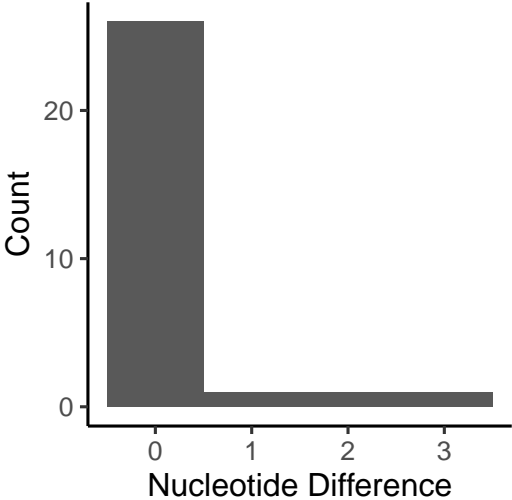
TRBV7-3\*ap02\_G290A\_C

207 sequences assigned  
157 (75.8%) exact matches, in which:  
157 unique CDR3  
12 unique J



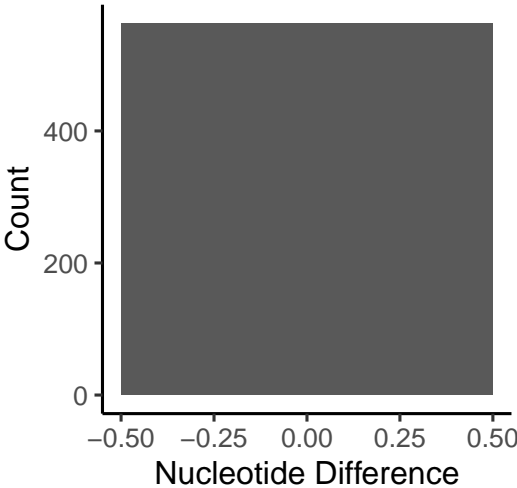
TRBV7-1\*ap01\_G291C\_T

29 sequences assigned  
26 (89.7%) exact matches, in which:  
25 unique CDR3  
9 unique J



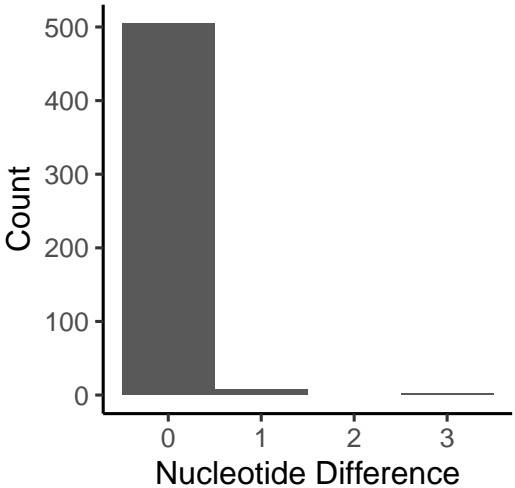
TRBV7-2\*ap01\_G297A

563 sequences assigned  
563 (100%) exact matches, in which:  
562 unique CDR3  
13 unique J



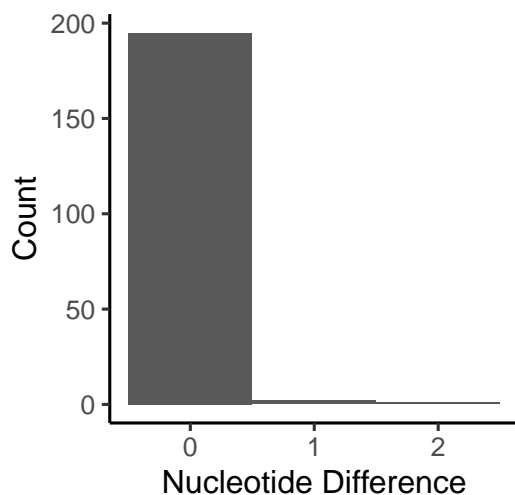
TRBV7-3\*ap03

514 sequences assigned  
505 (98.2%) exact matches, in which:  
504 unique CDR3  
14 unique J



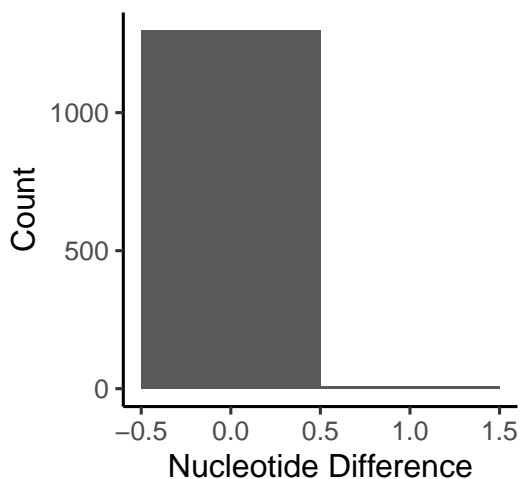
### TRBV7-4\*ap01

198 sequences assigned  
195 (98.5%) exact matches, in which:  
194 unique CDR3  
13 unique J



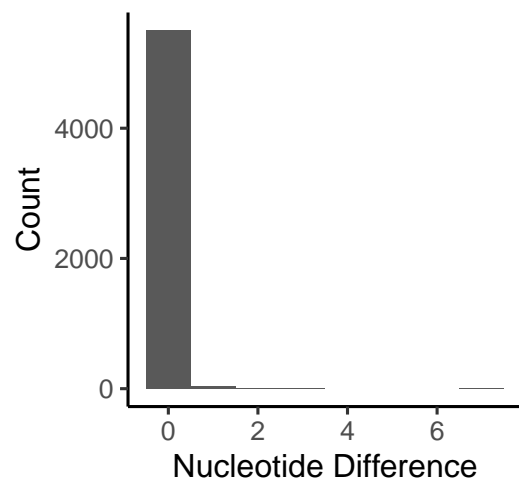
### TRBV7-8\*ap01

1307 sequences assigned  
1298 (99.3%) exact matches, in which:  
1294 unique CDR3  
13 unique J



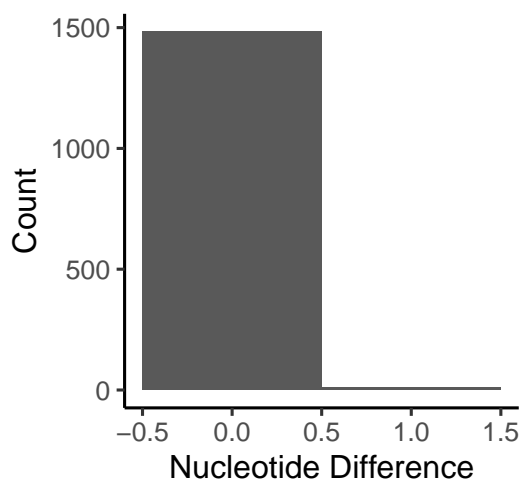
### TRBV7-9\*ap01

5543 sequences assigned  
5502 (99.3%) exact matches, in which:  
5486 unique CDR3  
13 unique J



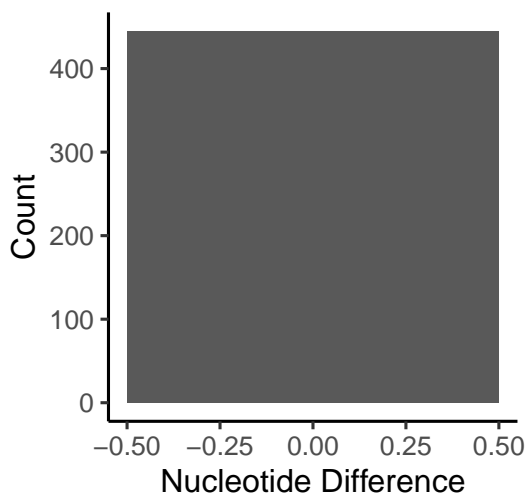
### TRBV7-6\*ap01

1492 sequences assigned  
1483 (99.4%) exact matches, in which:  
1477 unique CDR3  
13 unique J



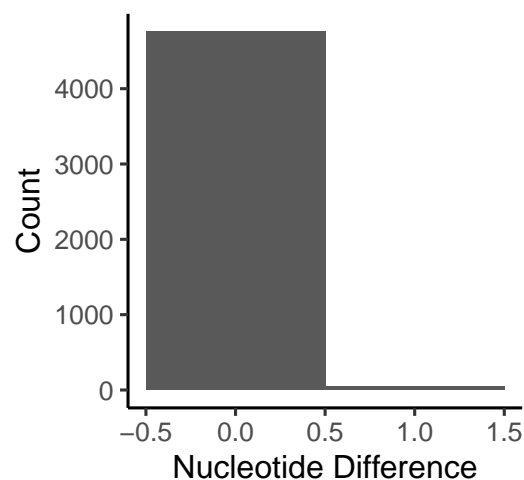
### TRBV7-8\*ap03

445 sequences assigned  
445 (100%) exact matches, in which:  
445 unique CDR3  
13 unique J



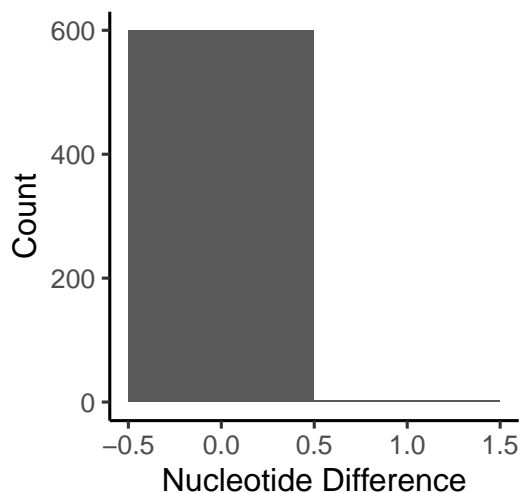
### TRBV29-1\*ap01

4801 sequences assigned  
4756 (99.1%) exact matches, in which:  
4695 unique CDR3  
13 unique J



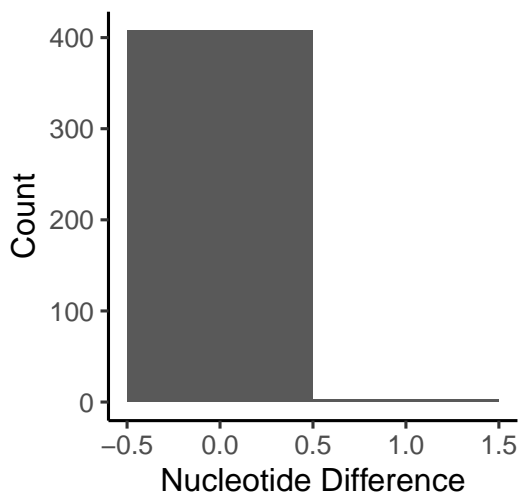
### TRBV7-7\*ap01

602 sequences assigned  
600 (99.7%) exact matches, in which:  
598 unique CDR3  
13 unique J



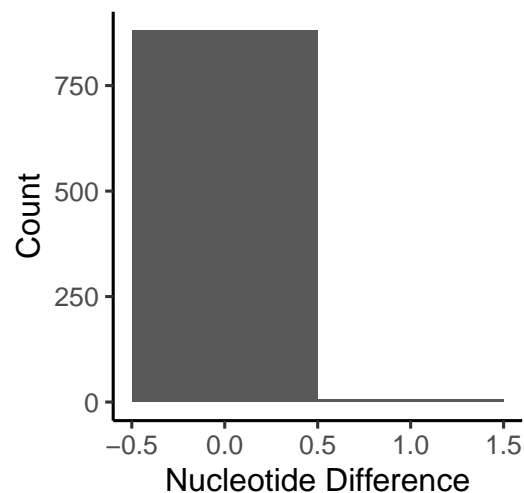
### TRBV7-8\*ap03\_C297A

411 sequences assigned  
408 (99.3%) exact matches, in which:  
405 unique CDR3  
13 unique J

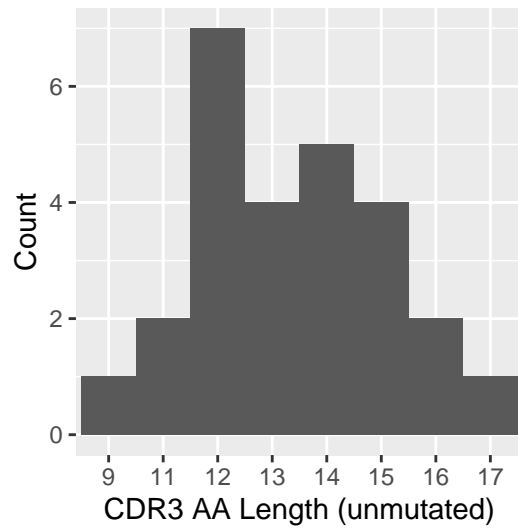


### TRBV29-1\*ap02

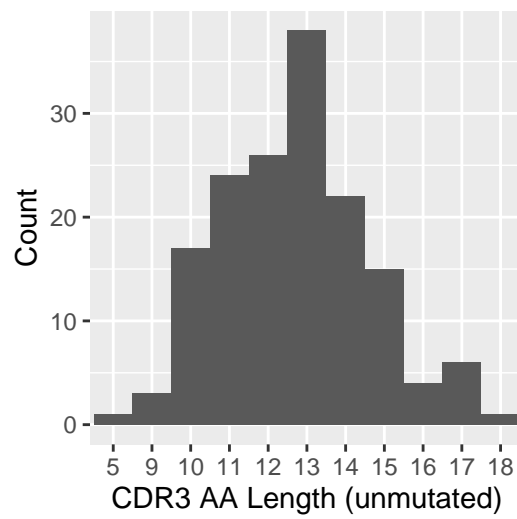
887 sequences assigned  
881 (99.3%) exact matches, in which:  
874 unique CDR3  
13 unique J



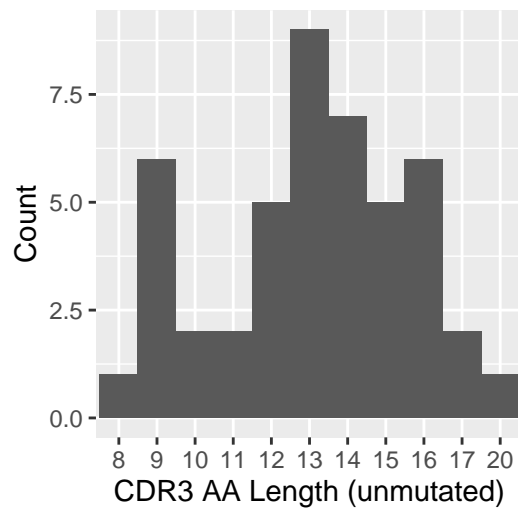
TRBV7-1\*ap01\_G291C\_T296



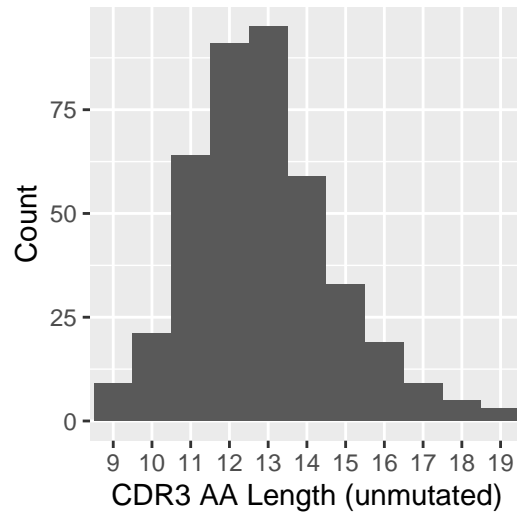
TRBV7-3\*ap02\_G290A\_C310T



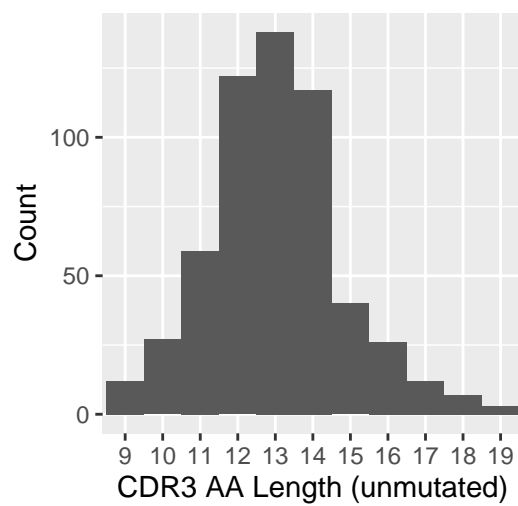
TRBV7-1\*ap01\_G291C\_T296

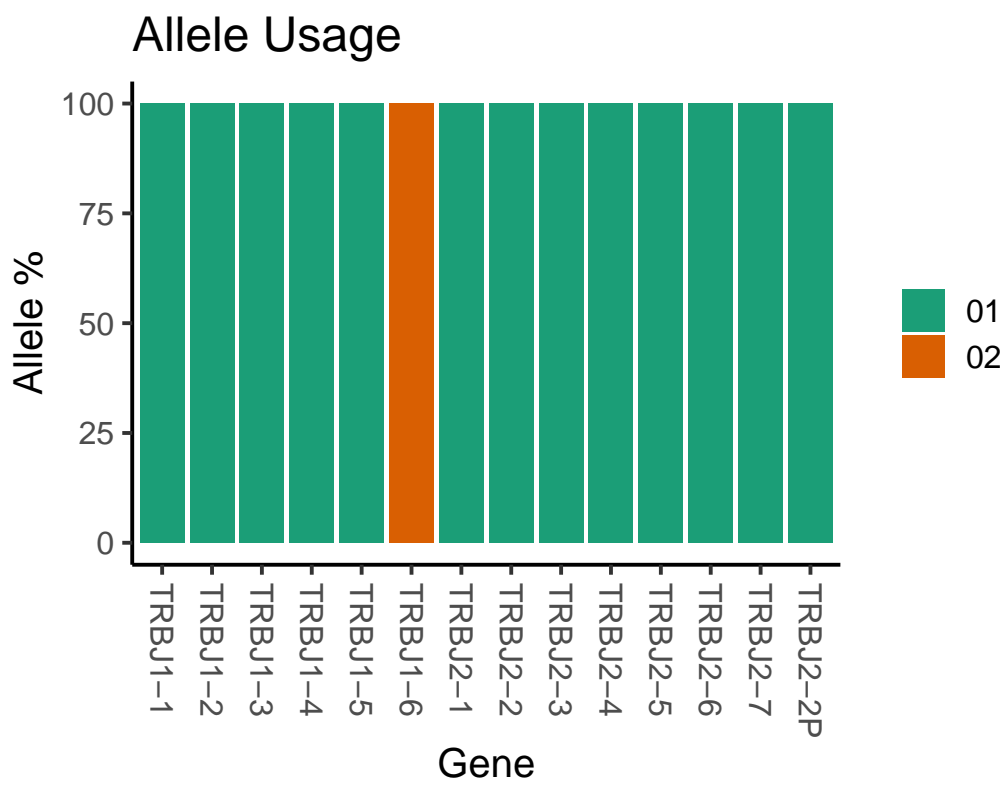


TRBV7-8\*ap03\_C297A



TRBV7-2\*ap01\_G297A





Warning – no inferred sequences found.

Warning – no inferred sequences found.