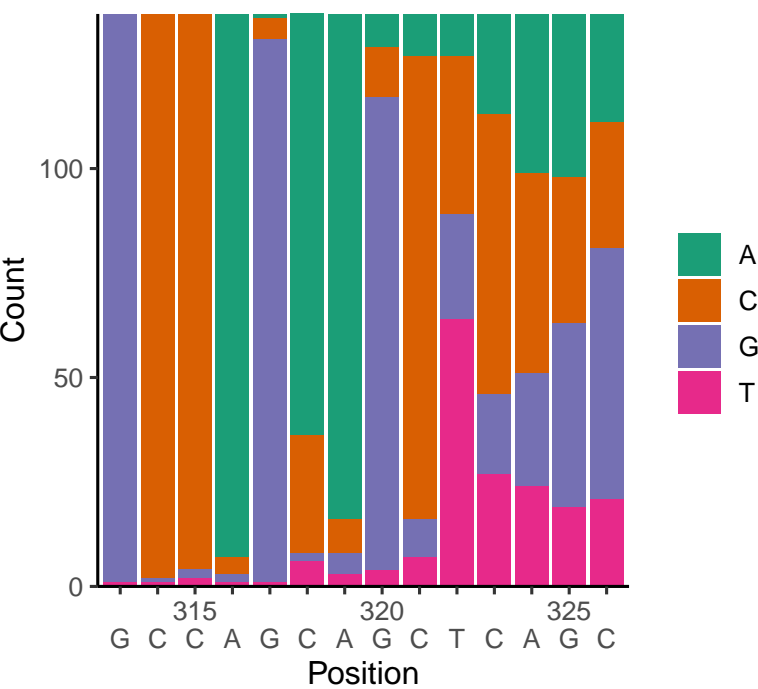
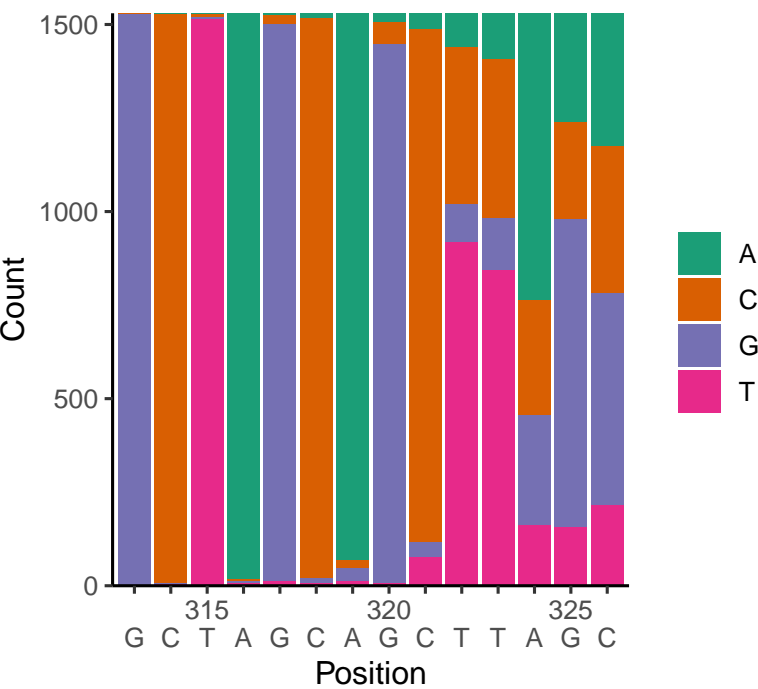


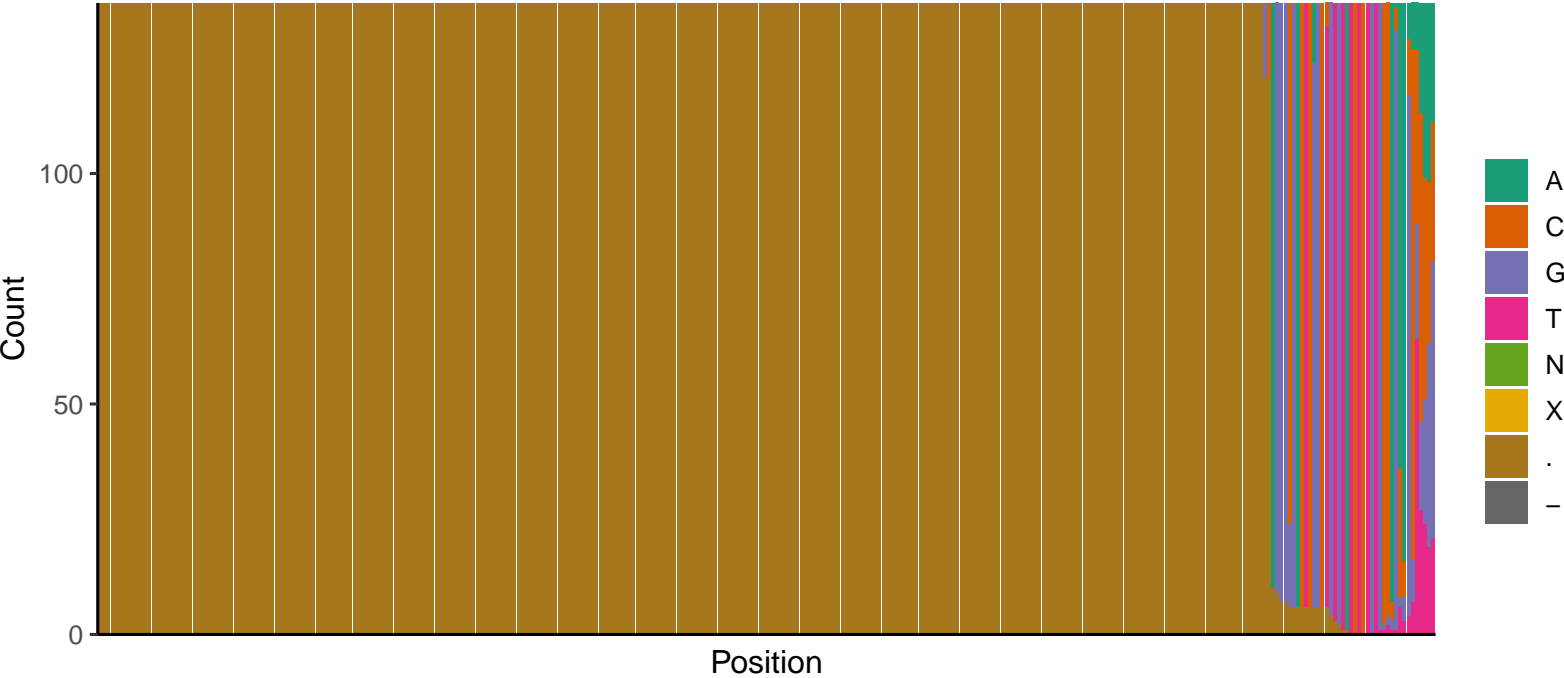
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



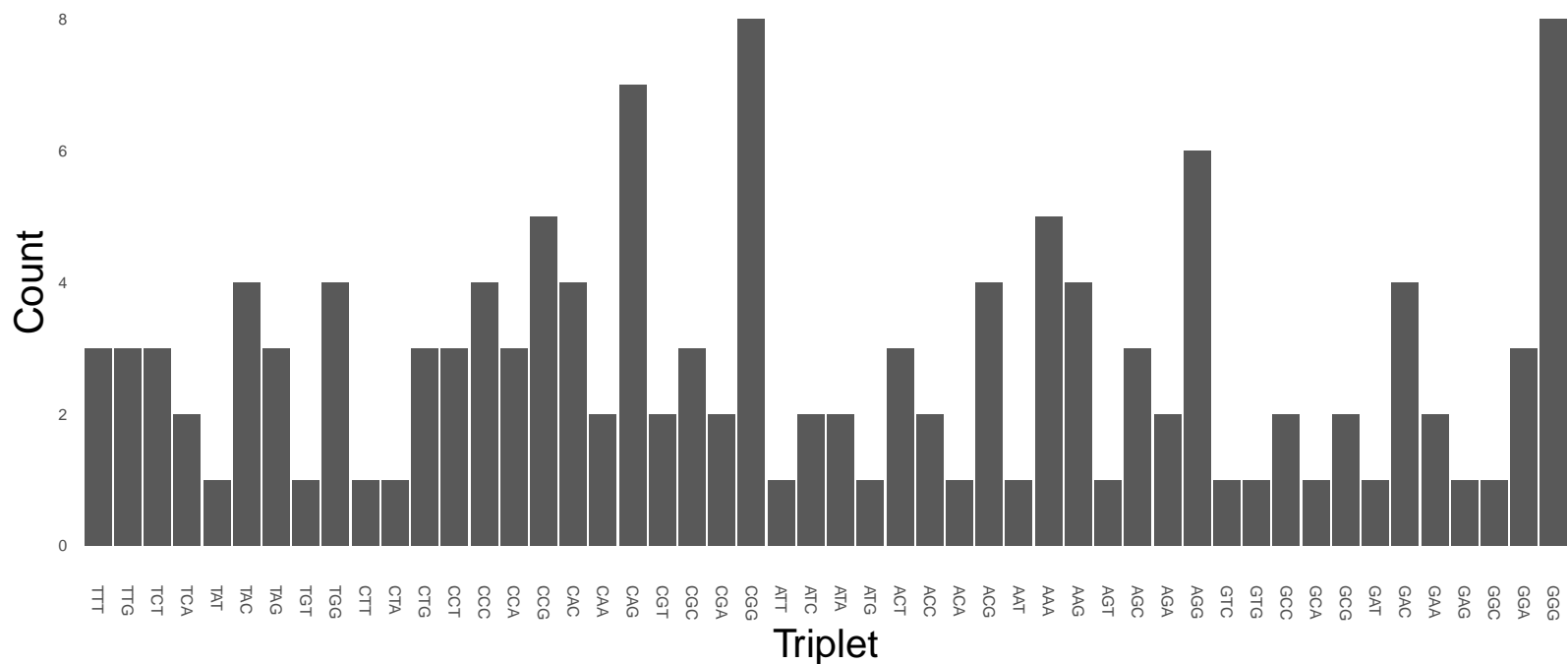
Gene TRBV7-1\*ap01\_T296C



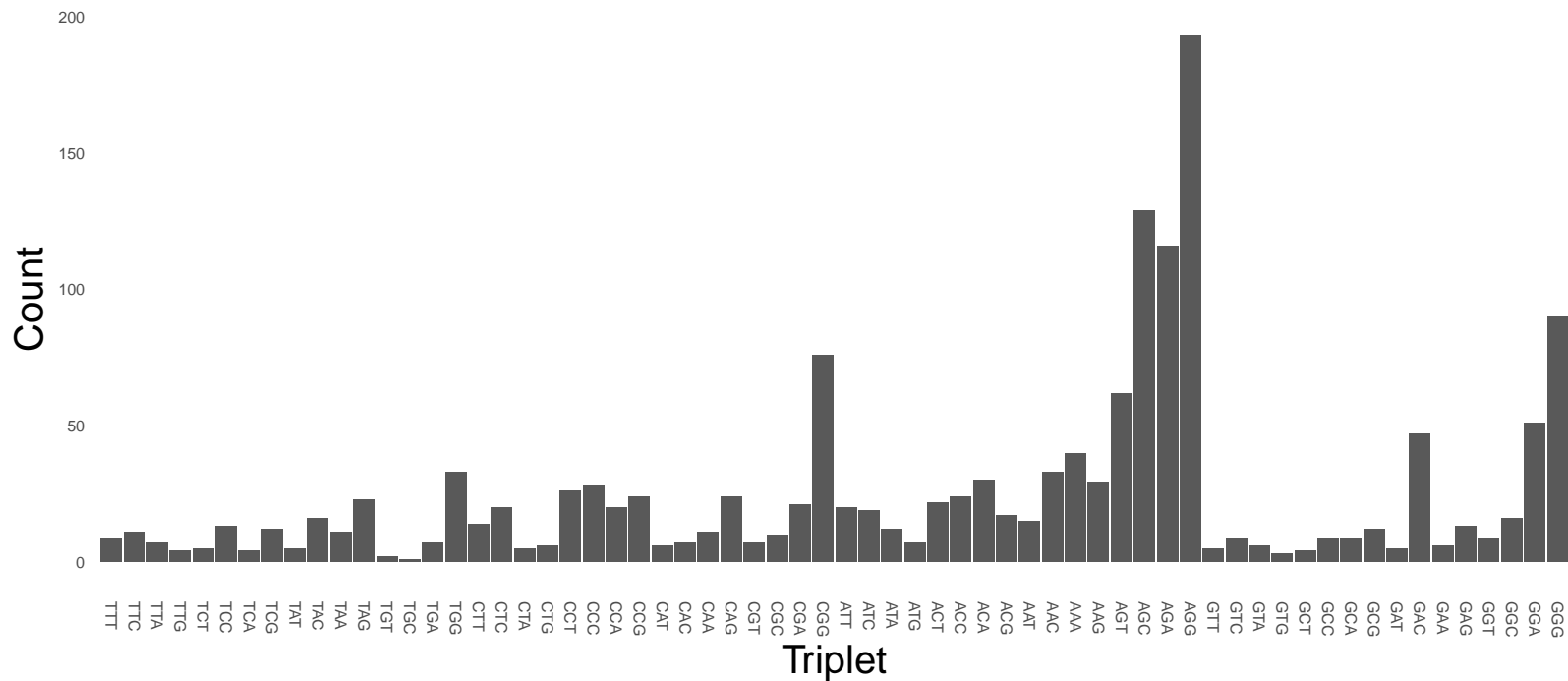
Gene TRBV7-7\*ap01\_C315T



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

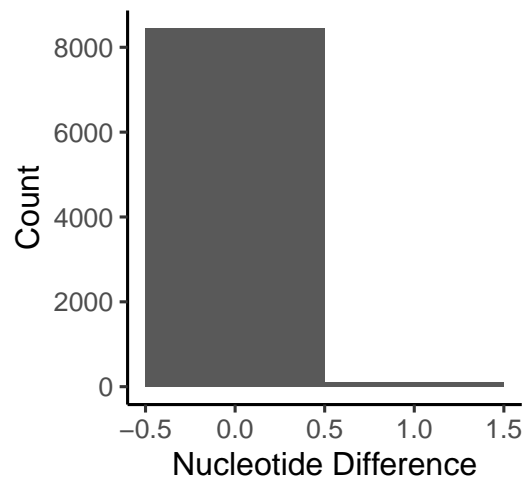


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



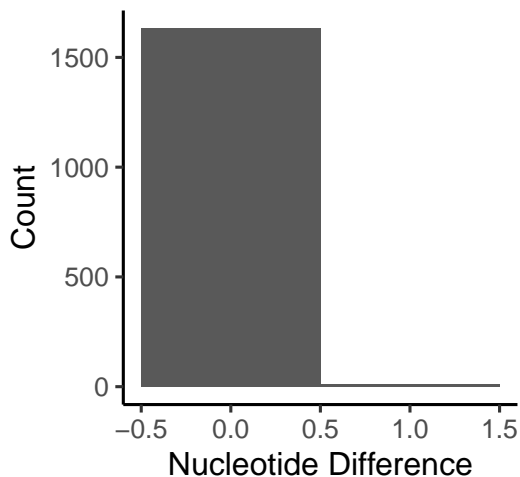
### TRBV20-1\*ap01

8544 sequences assigned  
8445 (98.8%) exact matches, in which:  
8291 unique CDR3  
13 unique J



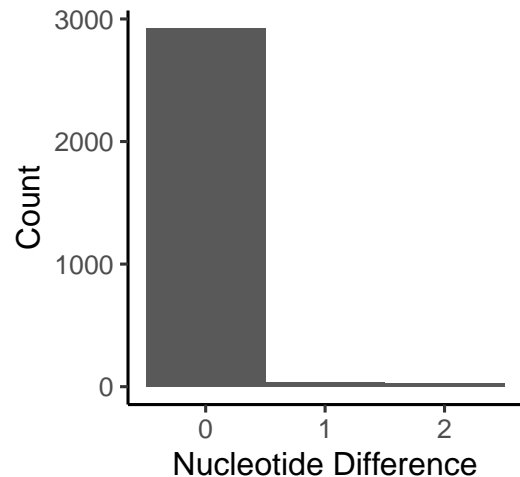
### TRBV10-2\*ap01

1643 sequences assigned  
1632 (99.3%) exact matches, in which:  
1607 unique CDR3  
13 unique J



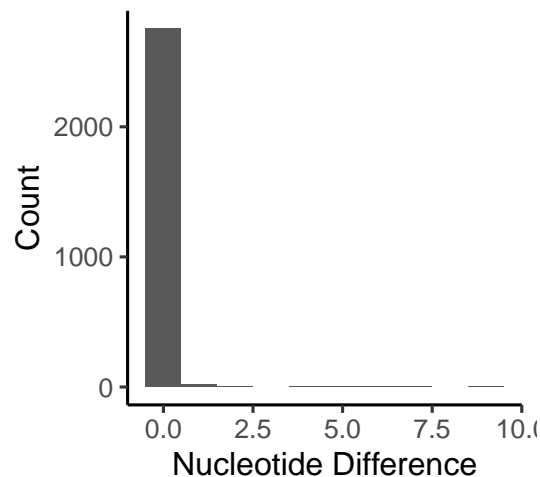
### TRBV13\*ap01

2990 sequences assigned  
2923 (97.8%) exact matches, in which:  
2836 unique CDR3  
13 unique J



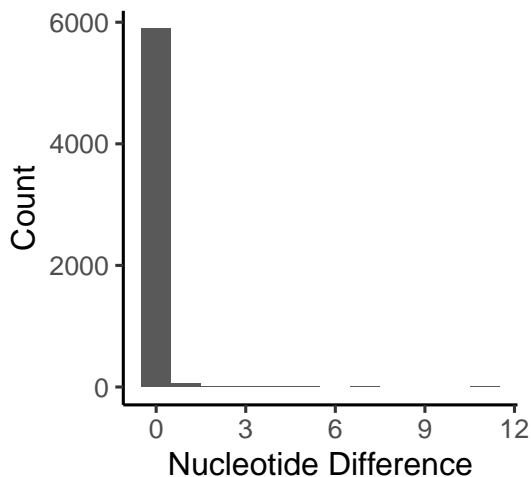
### TRBV10-1\*ap01

2785 sequences assigned  
2754 (98.9%) exact matches, in which:  
2690 unique CDR3  
13 unique J



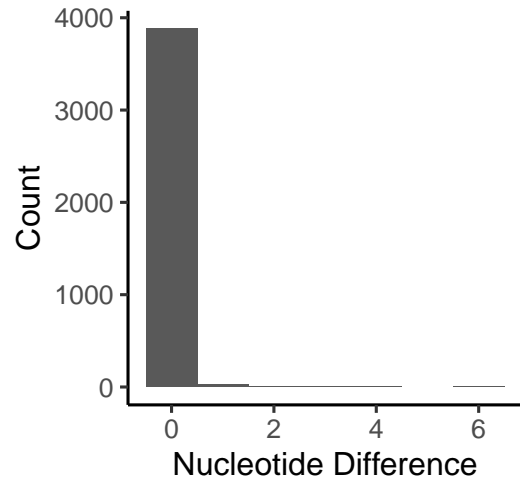
### TRBV10-3\*ap01

5956 sequences assigned  
5893 (98.9%) exact matches, in which:  
5801 unique CDR3  
13 unique J



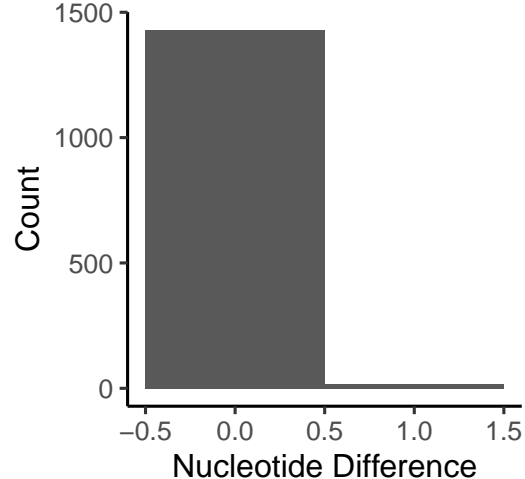
### TRBV14\*ap01

3915 sequences assigned  
3881 (99.1%) exact matches, in which:  
3840 unique CDR3  
13 unique J



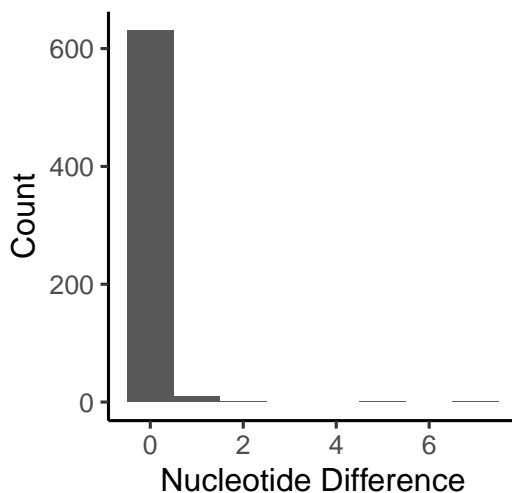
### TRBV20-1\*ap02

1447 sequences assigned  
1429 (98.8%) exact matches, in which:  
1402 unique CDR3  
13 unique J



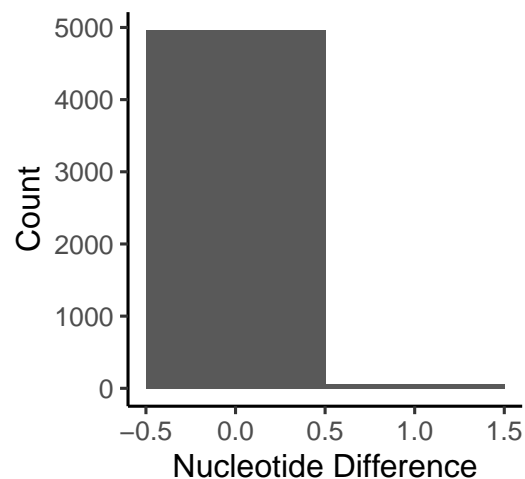
### TRBV1\*ap01

644 sequences assigned  
631 (98%) exact matches, in which:  
611 unique CDR3  
13 unique J



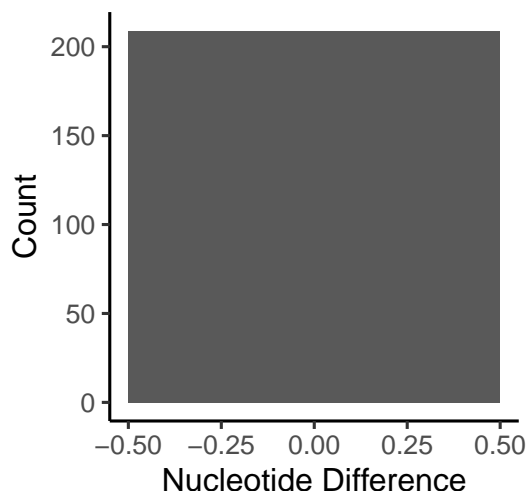
### TRBV15\*ap02

5023 sequences assigned  
4964 (98.8%) exact matches, in which:  
4850 unique CDR3  
13 unique J



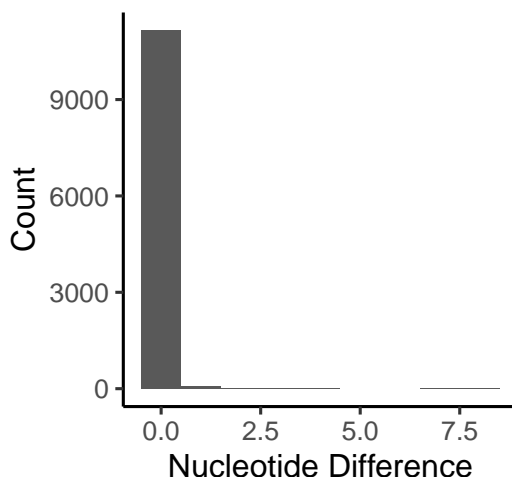
### TRBV16\*ap01

209 sequences assigned  
209 (100%) exact matches, in which:  
209 unique CDR3  
13 unique J



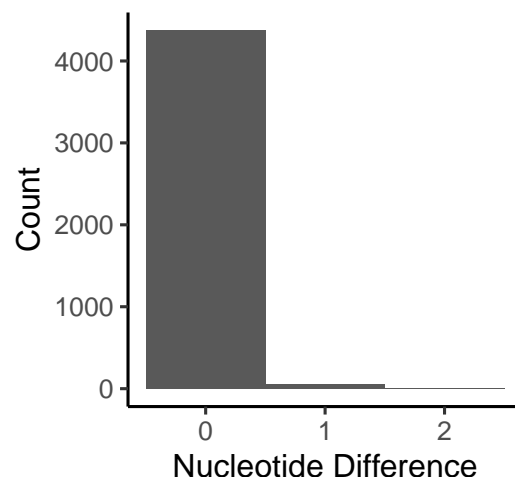
### TRBV2\*ap01

11262 sequences assigned  
11152 (99%) exact matches, in which:  
10878 unique CDR3  
13 unique J



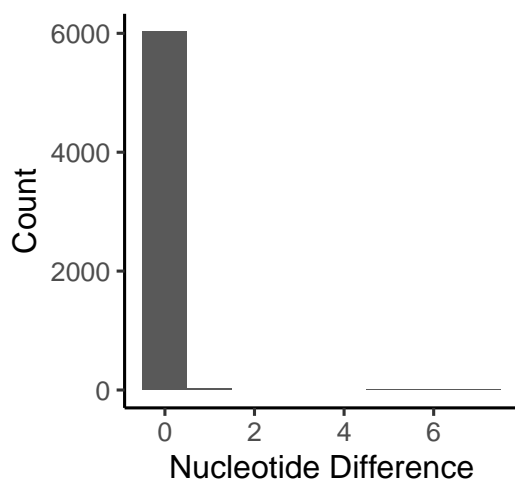
### TRBV30\*ap01

4433 sequences assigned  
4373 (98.6%) exact matches, in which:  
4297 unique CDR3  
13 unique J



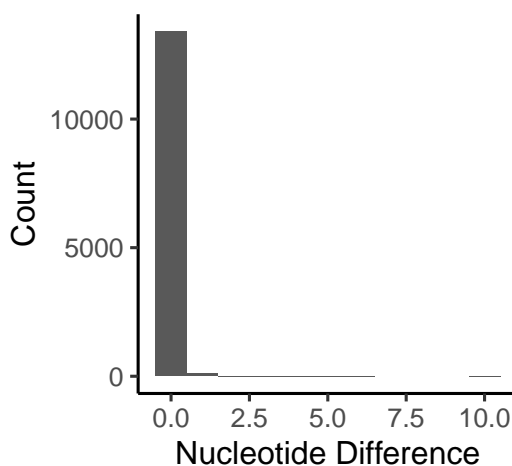
### TRBV18\*ap01

6050 sequences assigned  
6027 (99.6%) exact matches, in which:  
5994 unique CDR3  
13 unique J



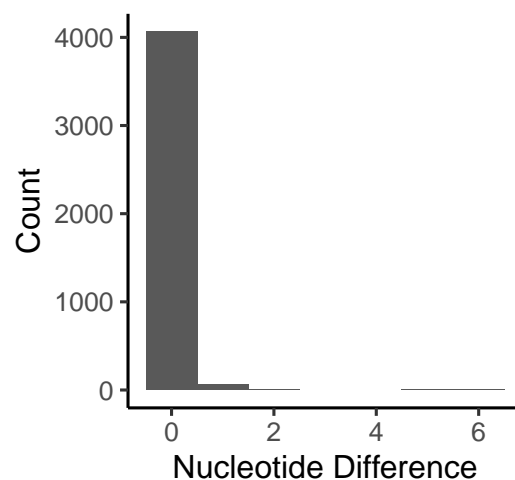
### TRBV27\*ap01

13526 sequences assigned  
13406 (99.1%) exact matches, in which:  
13072 unique CDR3  
13 unique J



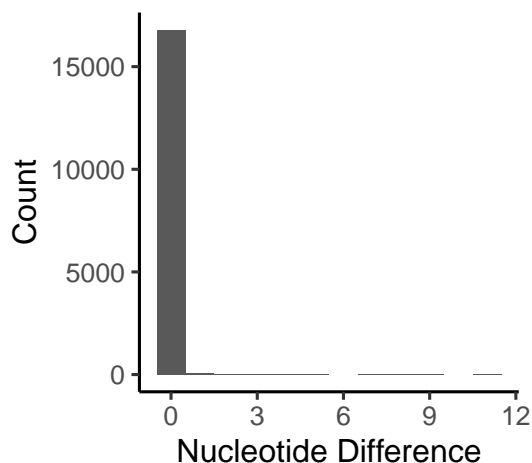
### TRBV30\*ap02

4128 sequences assigned  
4064 (98.4%) exact matches, in which:  
3970 unique CDR3  
13 unique J



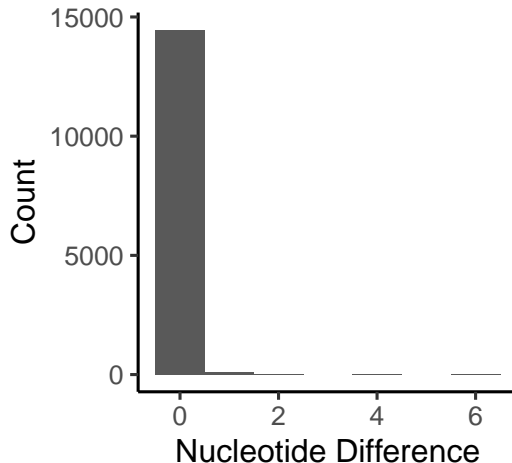
### TRBV19\*ap01

16906 sequences assigned  
16796 (99.3%) exact matches, in which:  
16665 unique CDR3  
13 unique J



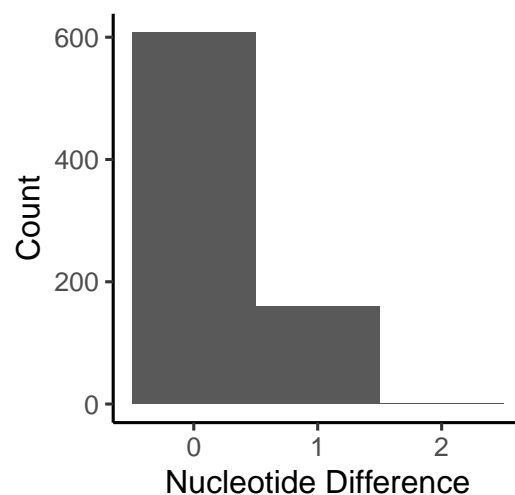
### TRBV28\*ap01

14556 sequences assigned  
14462 (99.4%) exact matches, in which:  
14304 unique CDR3  
13 unique J



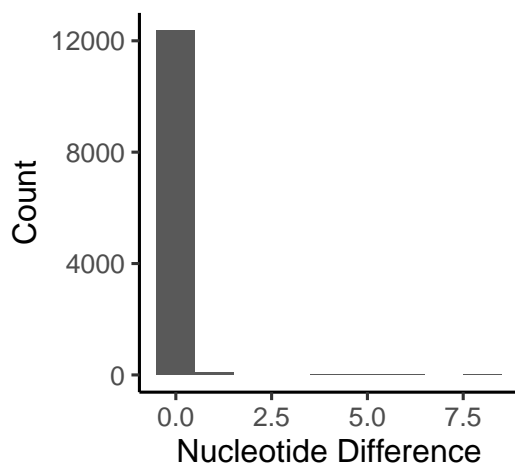
### TRBV30\*ap03

769 sequences assigned  
608 (79.1%) exact matches, in which:  
596 unique CDR3  
13 unique J



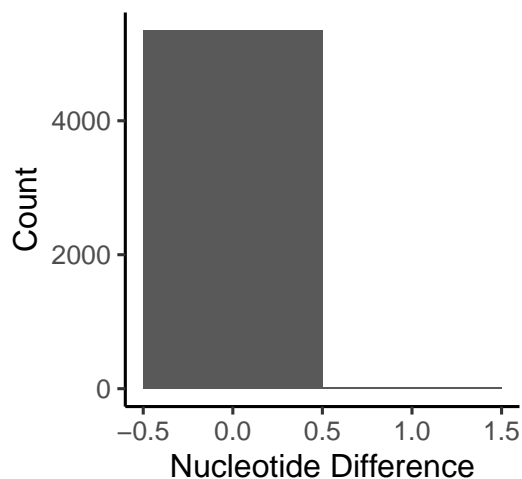
### TRBV9\*ap01

12481 sequences assigned  
12382 (99.2%) exact matches, in which:  
12163 unique CDR3  
13 unique J



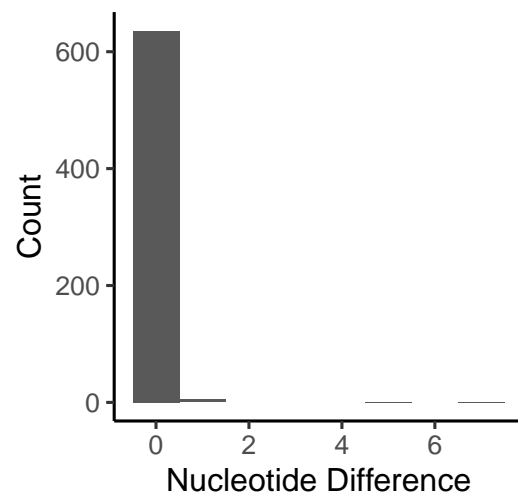
### TRBV11-2\*ap01

5367 sequences assigned  
5349 (99.7%) exact matches, in which:  
5291 unique CDR3  
13 unique J



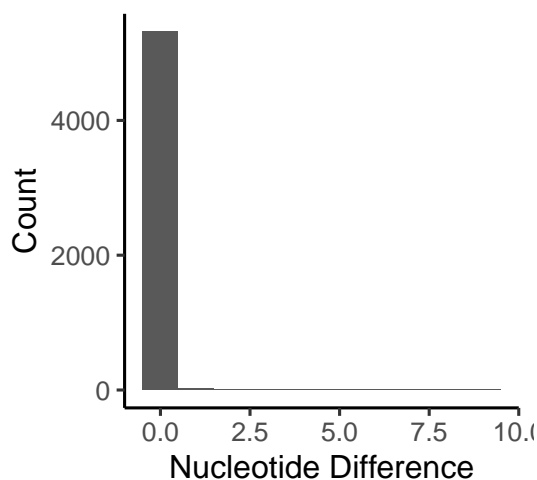
### TRBV12-2\*ap01

643 sequences assigned  
636 (98.9%) exact matches, in which:  
629 unique CDR3  
13 unique J



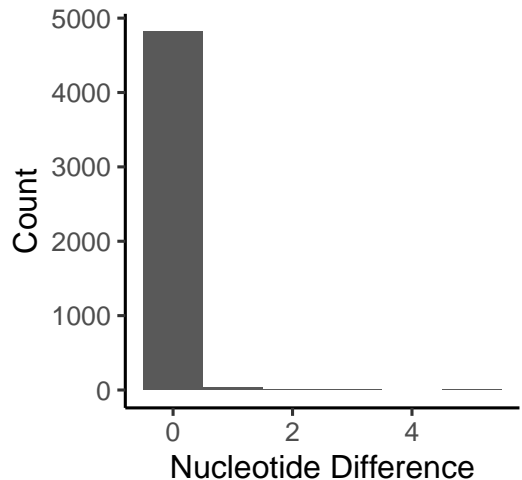
### TRBV21-1\*ap01

5375 sequences assigned  
5316 (98.9%) exact matches, in which:  
5280 unique CDR3  
13 unique J



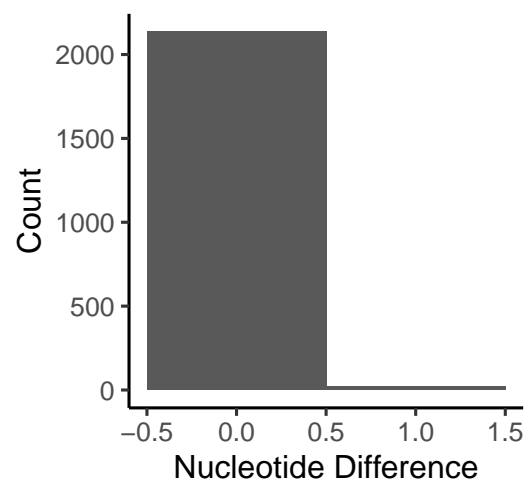
### TRBV11-3\*ap01

4851 sequences assigned  
4817 (99.3%) exact matches, in which:  
4768 unique CDR3  
13 unique J



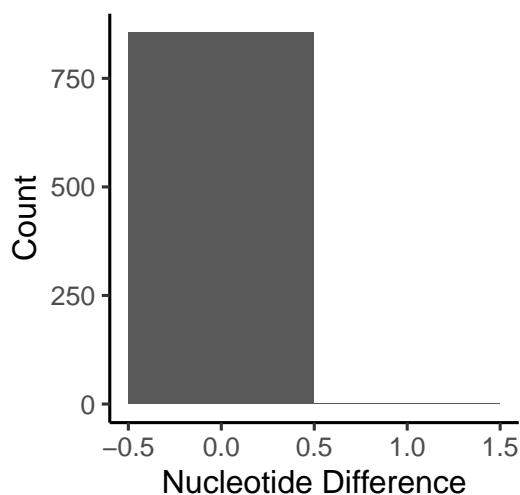
### TRBV12-5\*ap01

2155 sequences assigned  
2136 (99.1%) exact matches, in which:  
2097 unique CDR3  
13 unique J



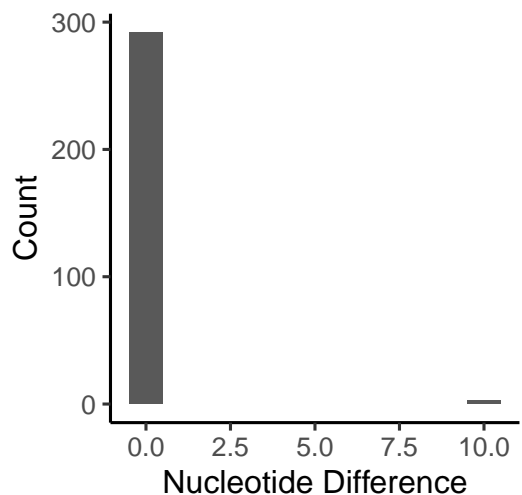
### TRBV11-1\*ap01

858 sequences assigned  
856 (99.8%) exact matches, in which:  
844 unique CDR3  
13 unique J



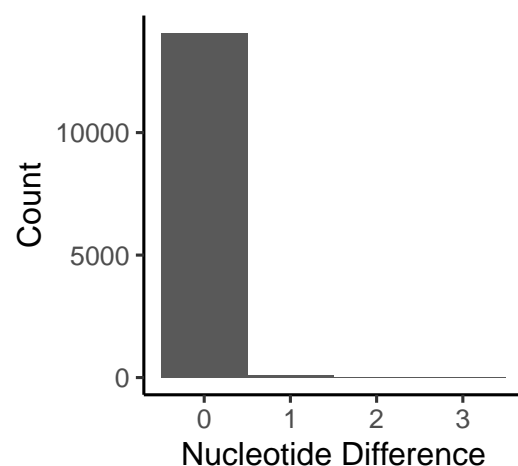
### TRBV12-1\*ap01

295 sequences assigned  
292 (99%) exact matches, in which:  
289 unique CDR3  
13 unique J



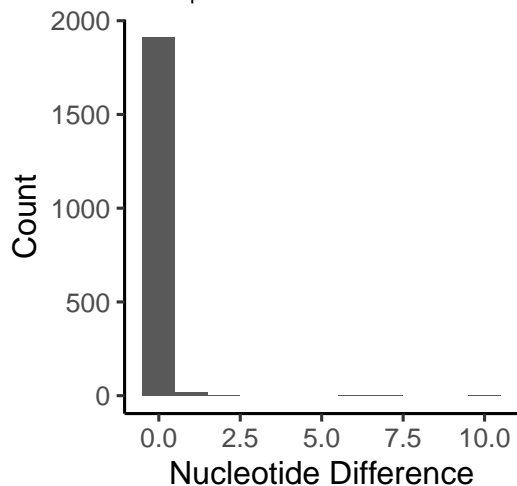
### TRBV12-34\*ap01

14198 sequences assigned  
14075 (99.1%) exact matches, in which:  
13864 unique CDR3  
13 unique J



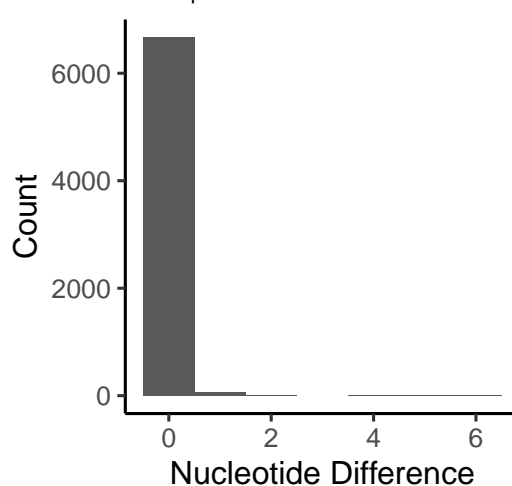
### TRBV23-1\*ap01

1935 sequences assigned  
1911 (98.8%) exact matches, in which:  
1883 unique CDR3  
13 unique J



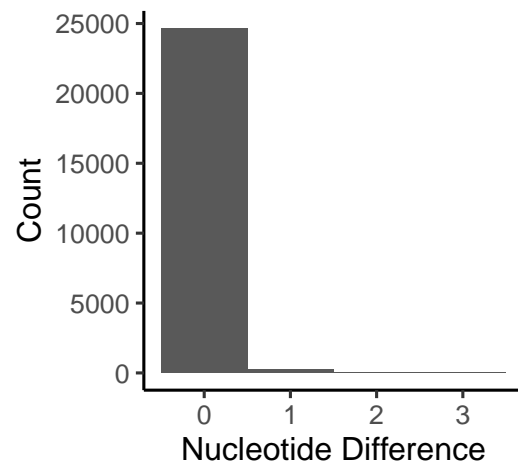
### TRBV24-1\*ap01

6738 sequences assigned  
6667 (98.9%) exact matches, in which:  
6532 unique CDR3  
13 unique J



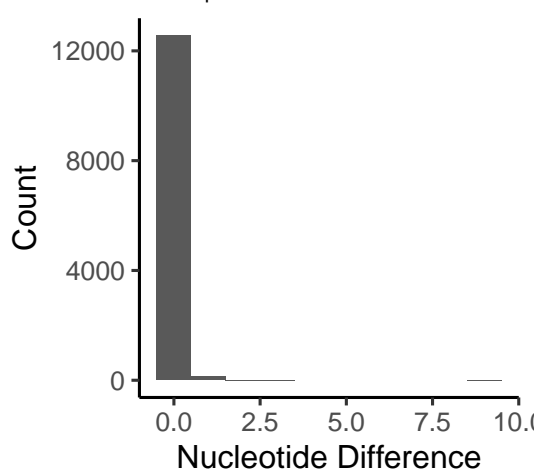
### TRBV5-1\*ap01

24890 sequences assigned  
24668 (99.1%) exact matches, in which:  
24037 unique CDR3  
13 unique J



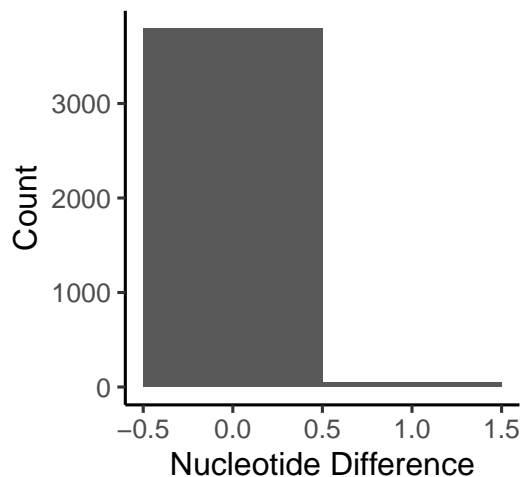
### TRBV3-12\*ap01

12694 sequences assigned  
12561 (99%) exact matches, in which:  
12312 unique CDR3  
13 unique J



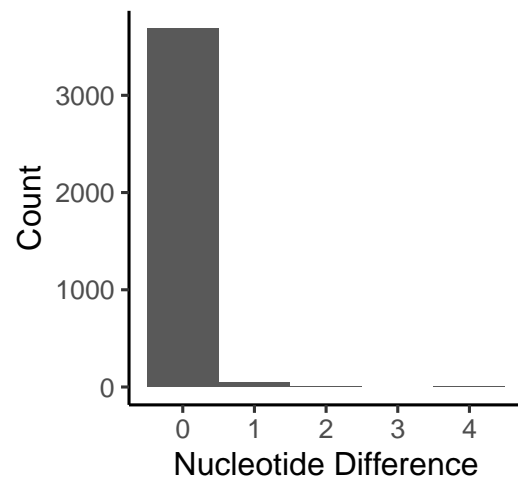
### TRBV4-2\*ap01

3838 sequences assigned  
3791 (98.8%) exact matches, in which:  
3710 unique CDR3  
13 unique J



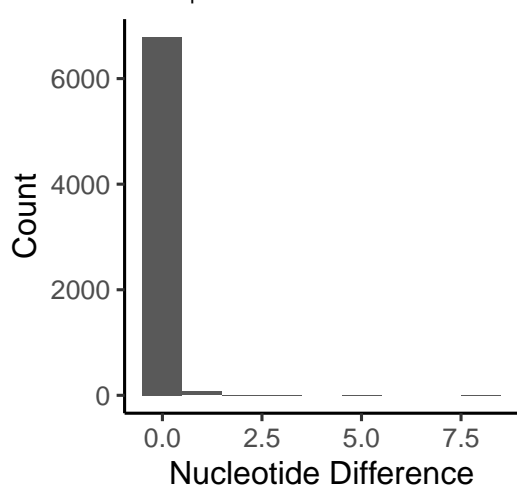
### TRBV25-1\*ap01

3735 sequences assigned  
3685 (98.7%) exact matches, in which:  
3606 unique CDR3  
13 unique J



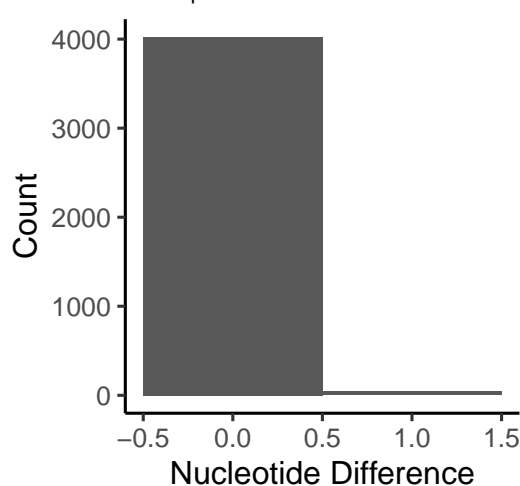
### TRBV4-1\*ap01

6865 sequences assigned  
6787 (98.9%) exact matches, in which:  
6626 unique CDR3  
13 unique J



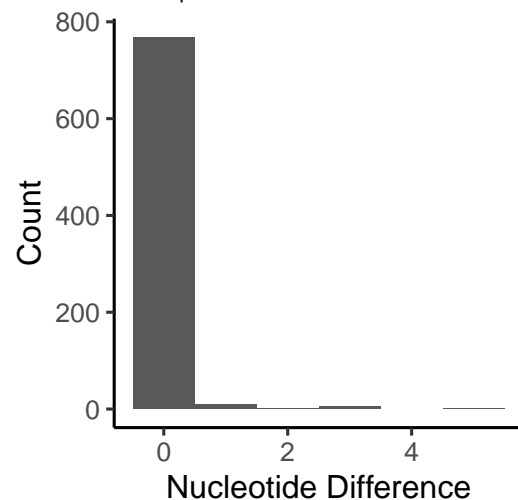
### TRBV4-3\*ap01

4067 sequences assigned  
4023 (98.9%) exact matches, in which:  
3902 unique CDR3  
13 unique J



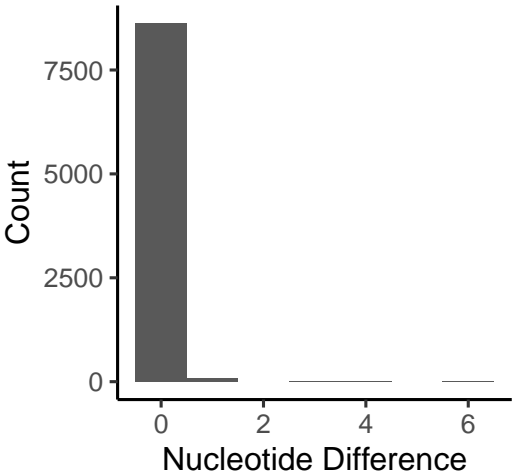
### TRBV5-3\*ap01

786 sequences assigned  
768 (97.7%) exact matches, in which:  
753 unique CDR3  
13 unique J



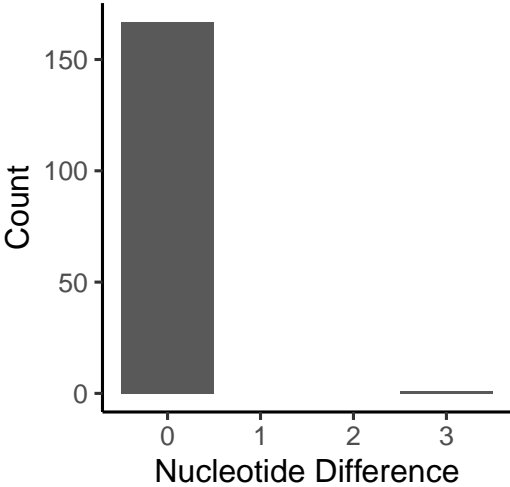
TRBV5-4\*ap01

8715 sequences assigned  
8621 (98.9%) exact matches, in which:  
8429 unique CDR3  
13 unique J



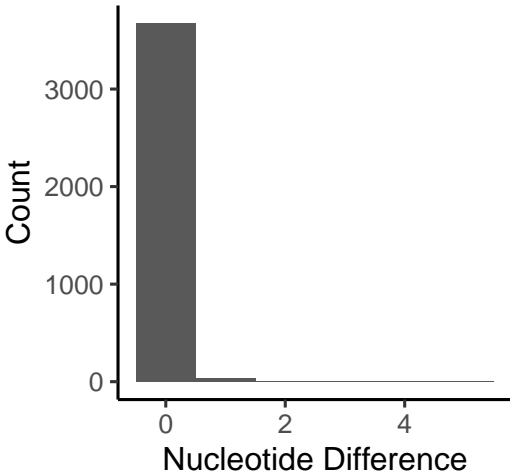
TRBV5-7\*ap01

168 sequences assigned  
167 (99.4%) exact matches, in which:  
162 unique CDR3  
13 unique J



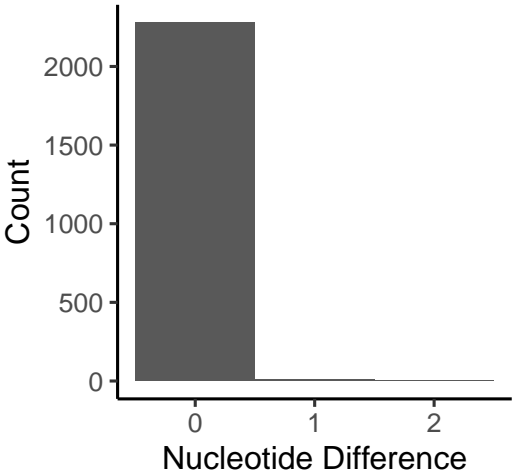
TRBV6-4\*ap01

3719 sequences assigned  
3673 (98.8%) exact matches, in which:  
3623 unique CDR3  
13 unique J



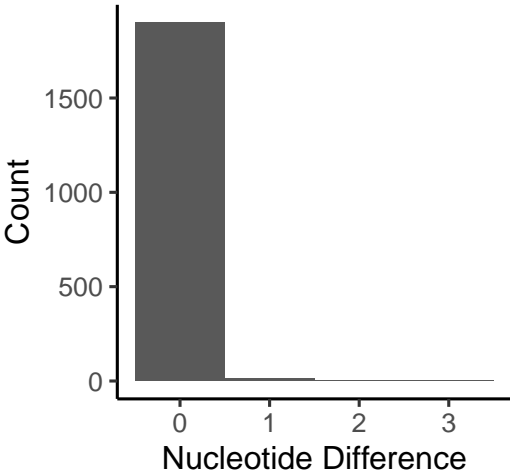
TRBV5-5\*ap01

2289 sequences assigned  
2278 (99.5%) exact matches, in which:  
2263 unique CDR3  
13 unique J



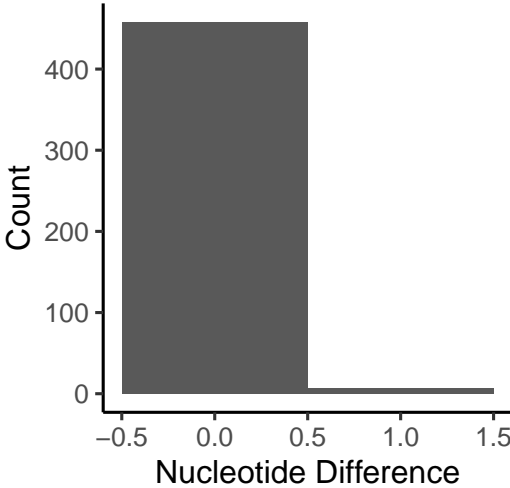
TRBV5-8\*ap01

1914 sequences assigned  
1899 (99.2%) exact matches, in which:  
1874 unique CDR3  
13 unique J



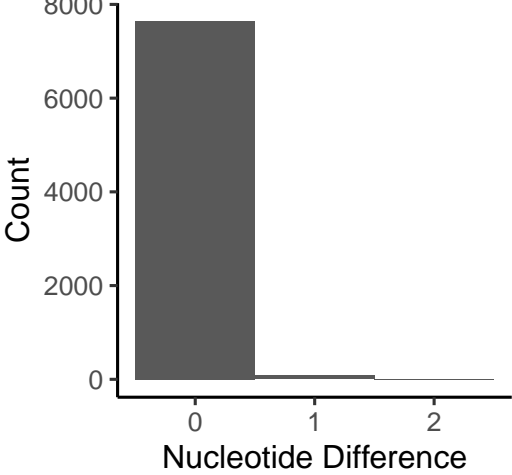
TRBV6-7\*ap01

465 sequences assigned  
458 (98.5%) exact matches, in which:  
445 unique CDR3  
13 unique J



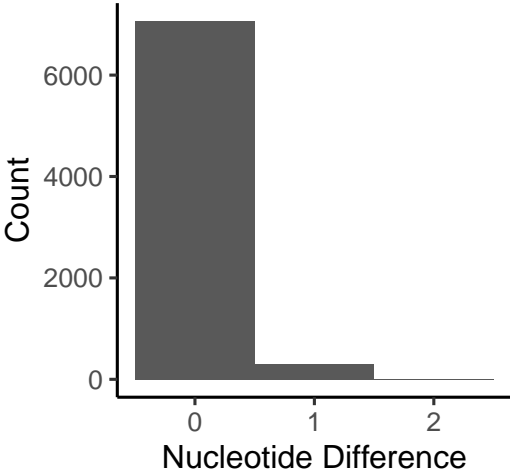
TRBV5-6\*ap01

7724 sequences assigned  
7645 (99%) exact matches, in which:  
7401 unique CDR3  
13 unique J



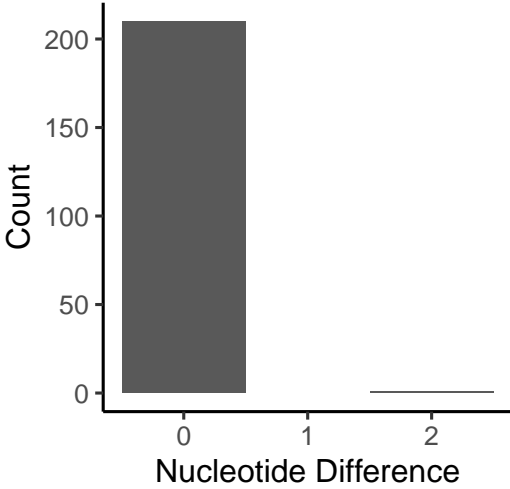
TRBV6-1\*ap01

7367 sequences assigned  
7066 (95.9%) exact matches, in which:  
6910 unique CDR3  
13 unique J



TRBV6-8\*ap01

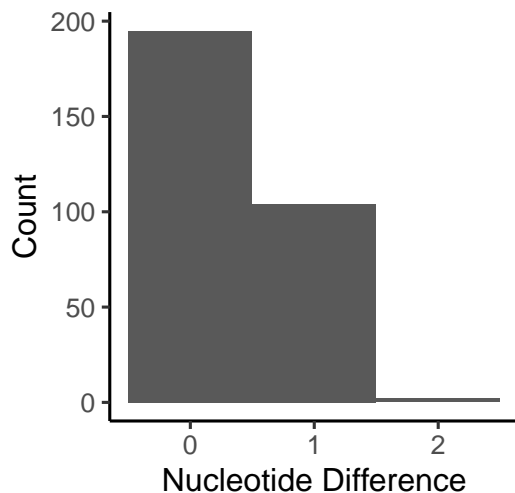
211 sequences assigned  
210 (99.5%) exact matches, in which:  
201 unique CDR3  
13 unique J





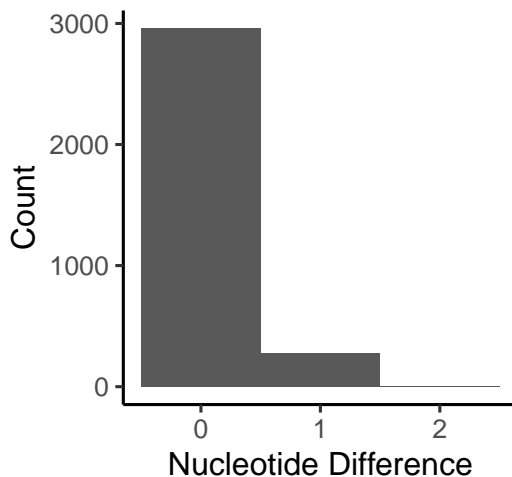
### TRBV6-9\*ap01

301 sequences assigned  
195 (64.8%) exact matches, in which:  
191 unique CDR3  
13 unique J



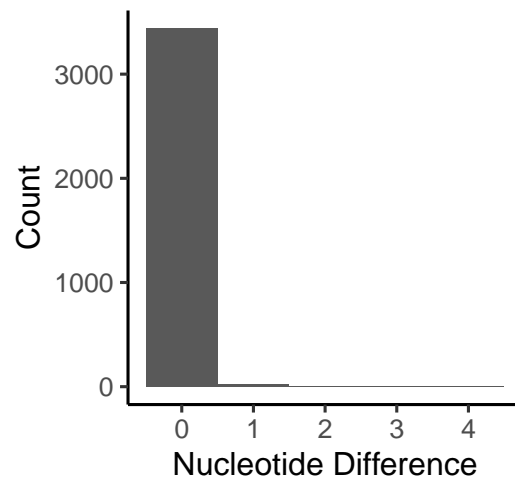
### TRBV6-56\*ap02

3236 sequences assigned  
2959 (91.4%) exact matches, in which:  
2876 unique CDR3  
13 unique J



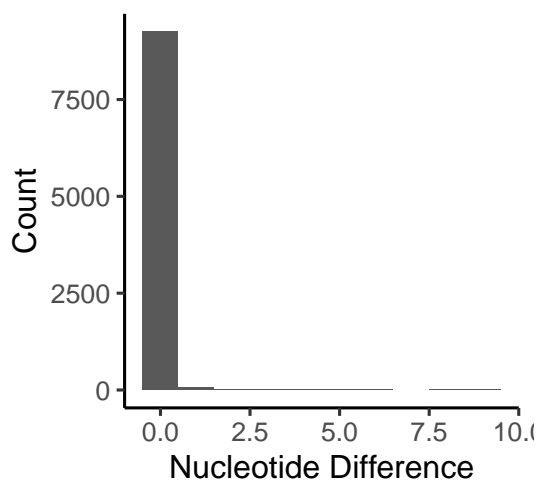
### TRBV7-3\*ap01

3463 sequences assigned  
3439 (99.3%) exact matches, in which:  
3403 unique CDR3  
13 unique J



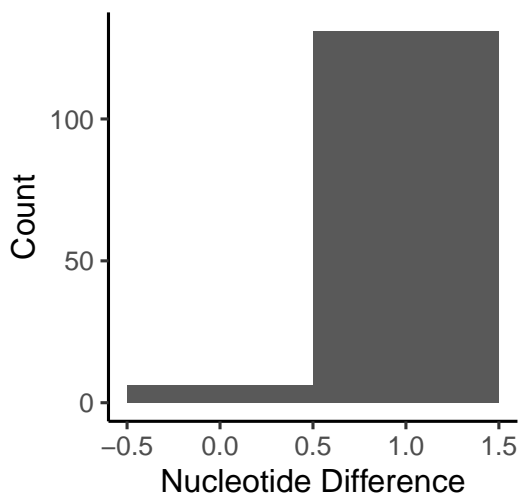
### TRBV6-23\*ap01

9334 sequences assigned  
9251 (99.1%) exact matches, in which:  
8970 unique CDR3  
13 unique J



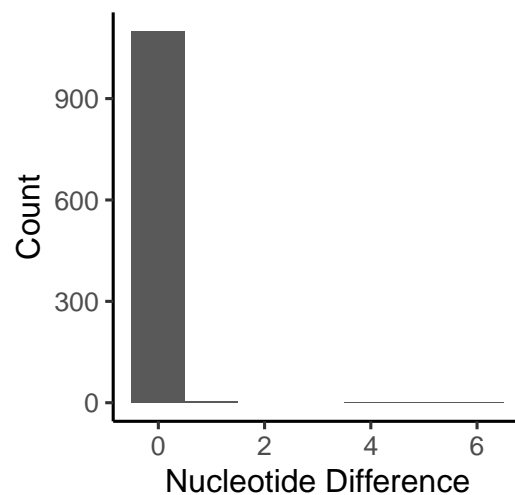
### TRBV7-1\*ap01\_T296C

137 sequences assigned  
6 (4.4%) exact matches, in which:  
6 unique CDR3  
6 unique J



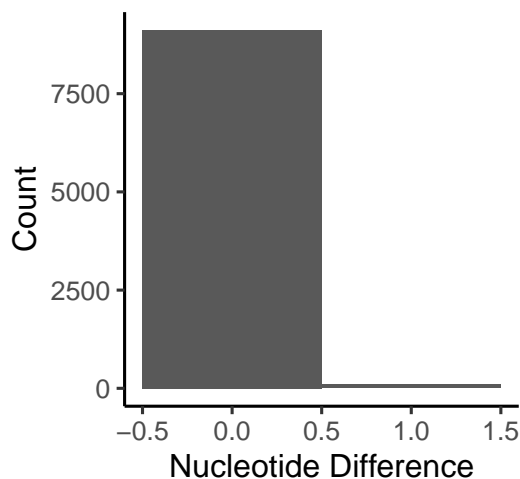
### TRBV7-3\*ap03

1110 sequences assigned  
1100 (99.1%) exact matches, in which:  
1089 unique CDR3  
13 unique J



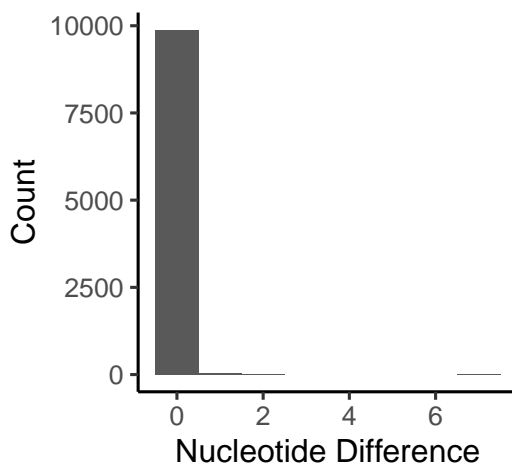
### TRBV6-56\*ap01

9218 sequences assigned  
9120 (98.9%) exact matches, in which:  
8877 unique CDR3  
13 unique J



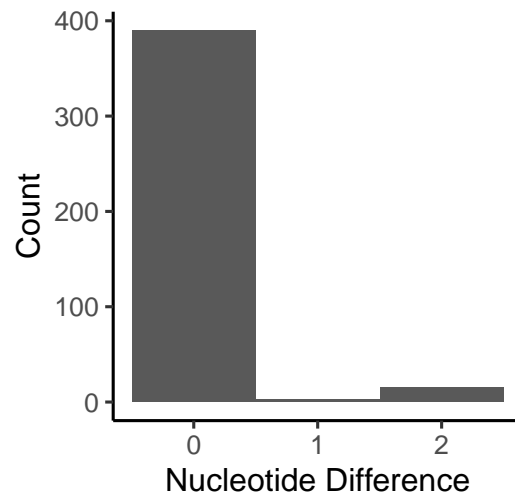
### TRBV7-2\*ap01

9942 sequences assigned  
9884 (99.4%) exact matches, in which:  
9736 unique CDR3  
13 unique J



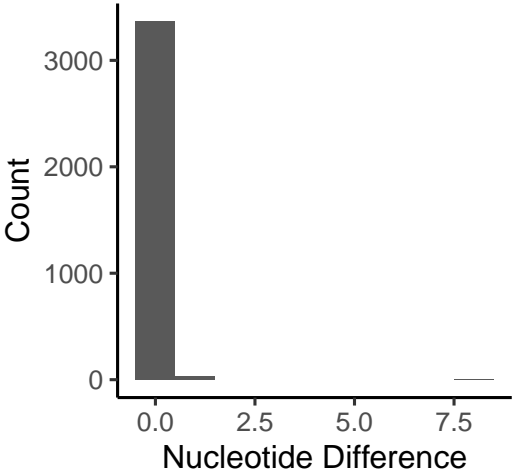
### TRBV7-4\*ap01

408 sequences assigned  
390 (95.6%) exact matches, in which:  
386 unique CDR3  
13 unique J



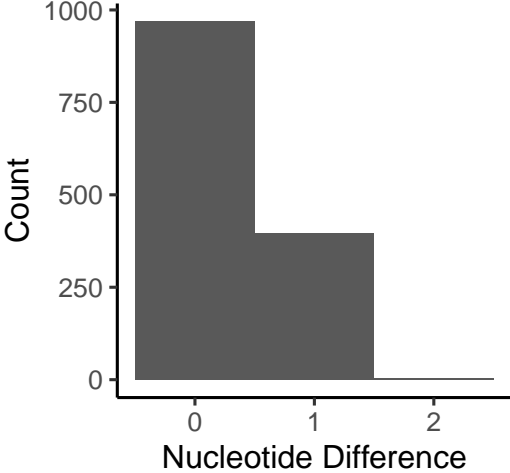
TRBV7-6\*ap01

3397 sequences assigned  
3366 (99.1%) exact matches, in which:  
3295 unique CDR3  
13 unique J



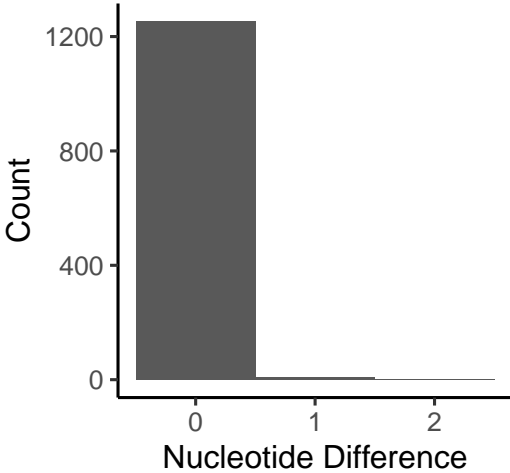
TRBV7-8\*ap03

1369 sequences assigned  
969 (70.8%) exact matches, in which:  
956 unique CDR3  
13 unique J



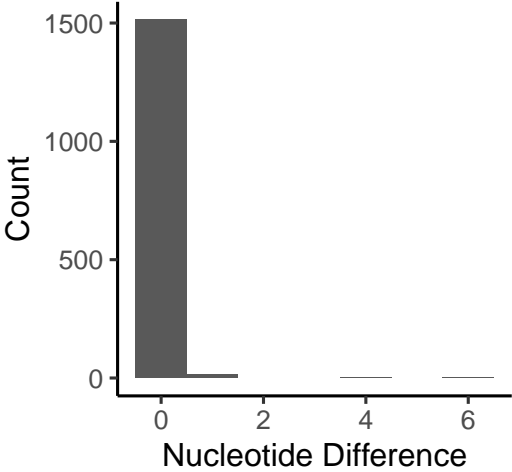
TRBV29-1\*ap02

1264 sequences assigned  
1253 (99.1%) exact matches, in which:  
1208 unique CDR3  
13 unique J



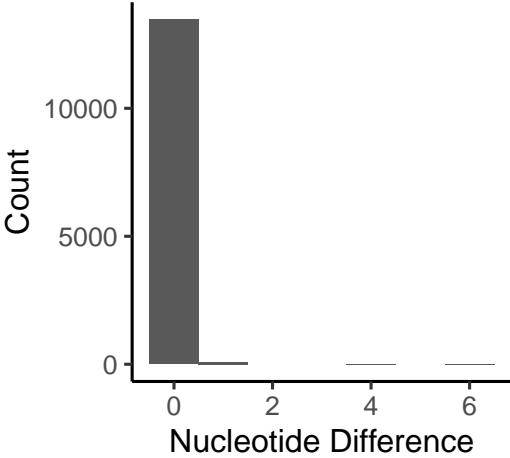
TRBV7-7\*ap01\_C315T

1530 sequences assigned  
1514 (99%) exact matches, in which:  
1489 unique CDR3  
13 unique J



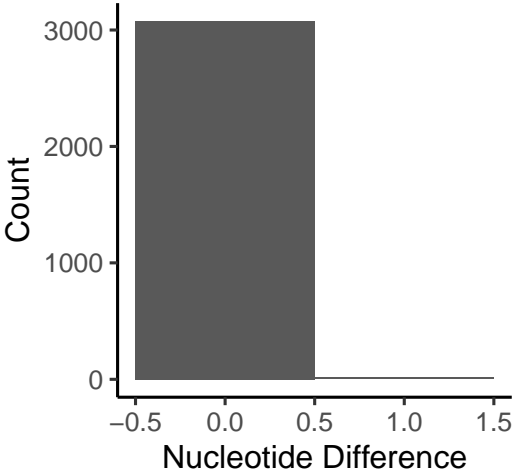
TRBV7-9\*ap01

13552 sequences assigned  
13471 (99.4%) exact matches, in which:  
13275 unique CDR3  
13 unique J



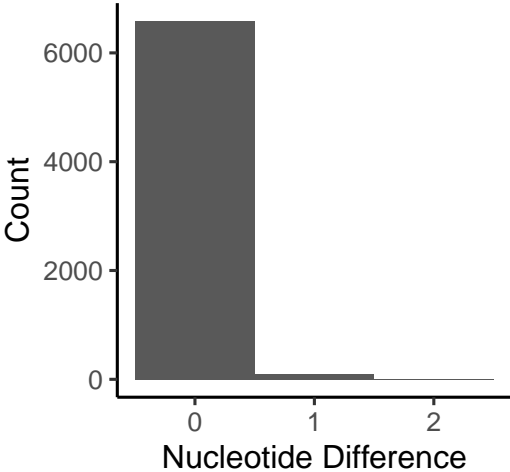
TRBV7-8\*ap01

3093 sequences assigned  
3077 (99.5%) exact matches, in which:  
3028 unique CDR3  
13 unique J

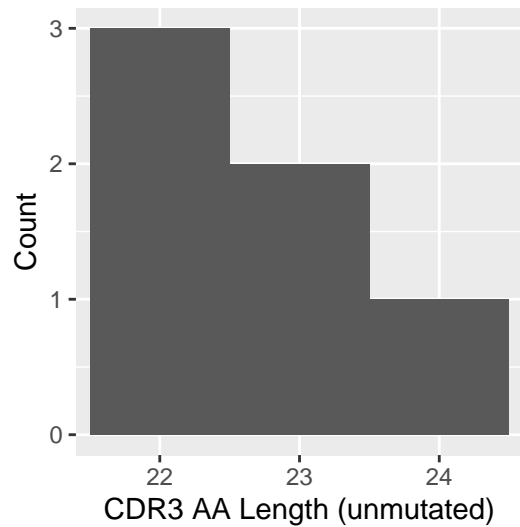


TRBV29-1\*ap01

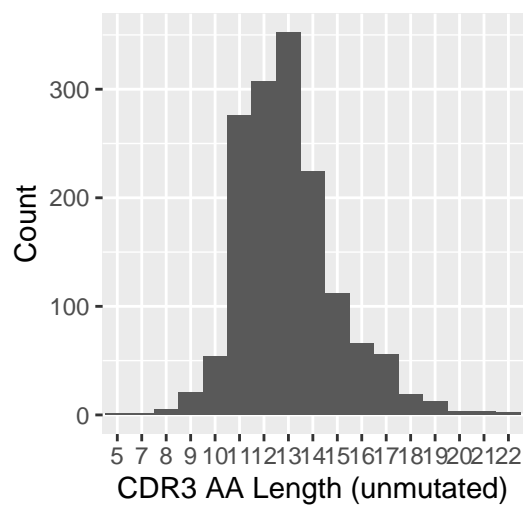
6678 sequences assigned  
6585 (98.6%) exact matches, in which:  
6389 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]