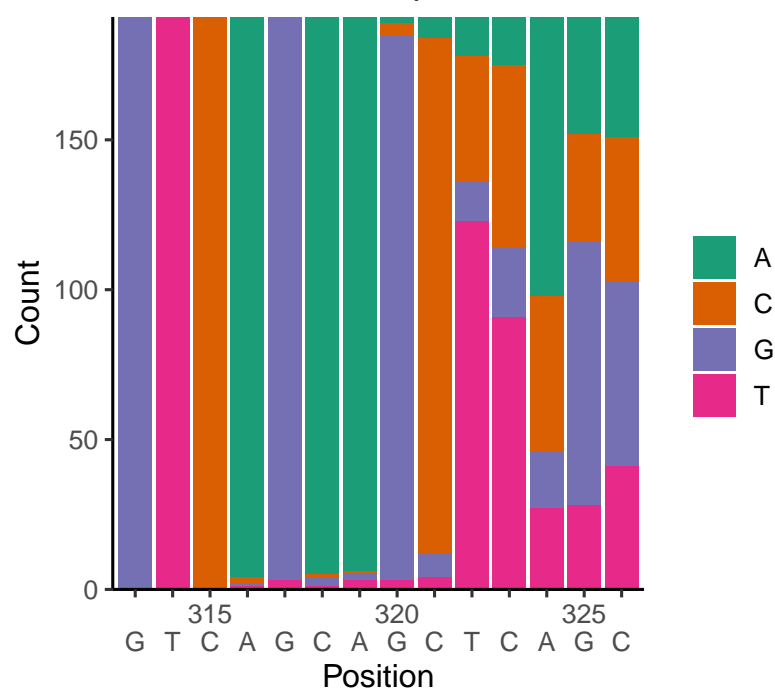
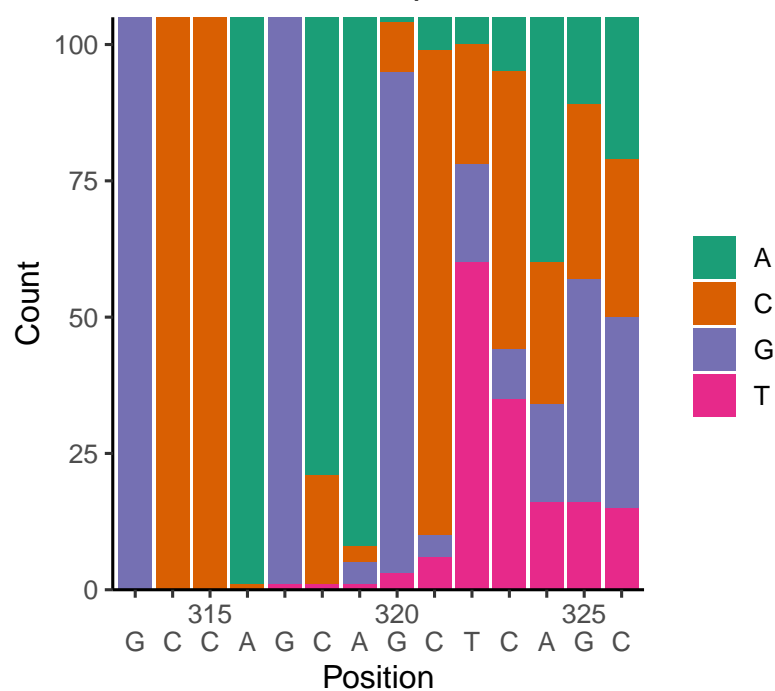


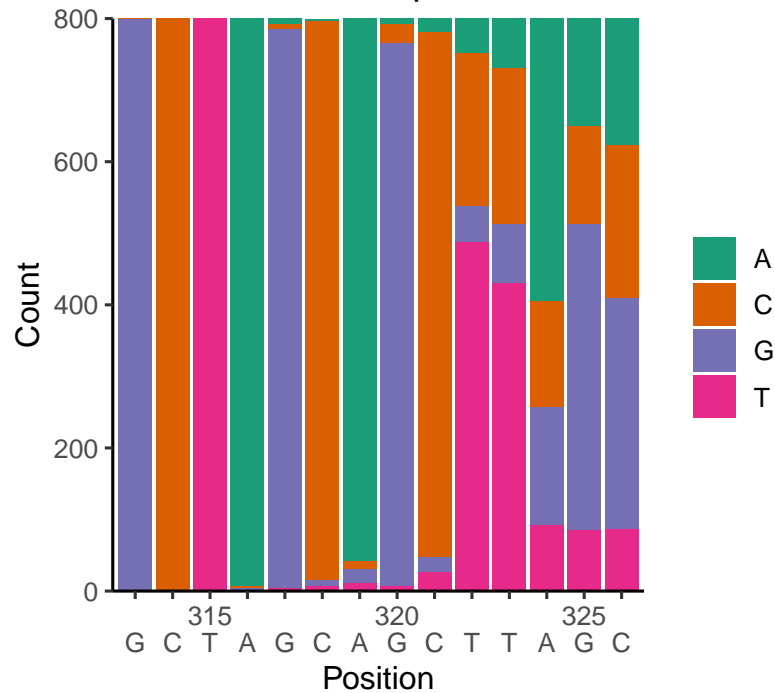
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



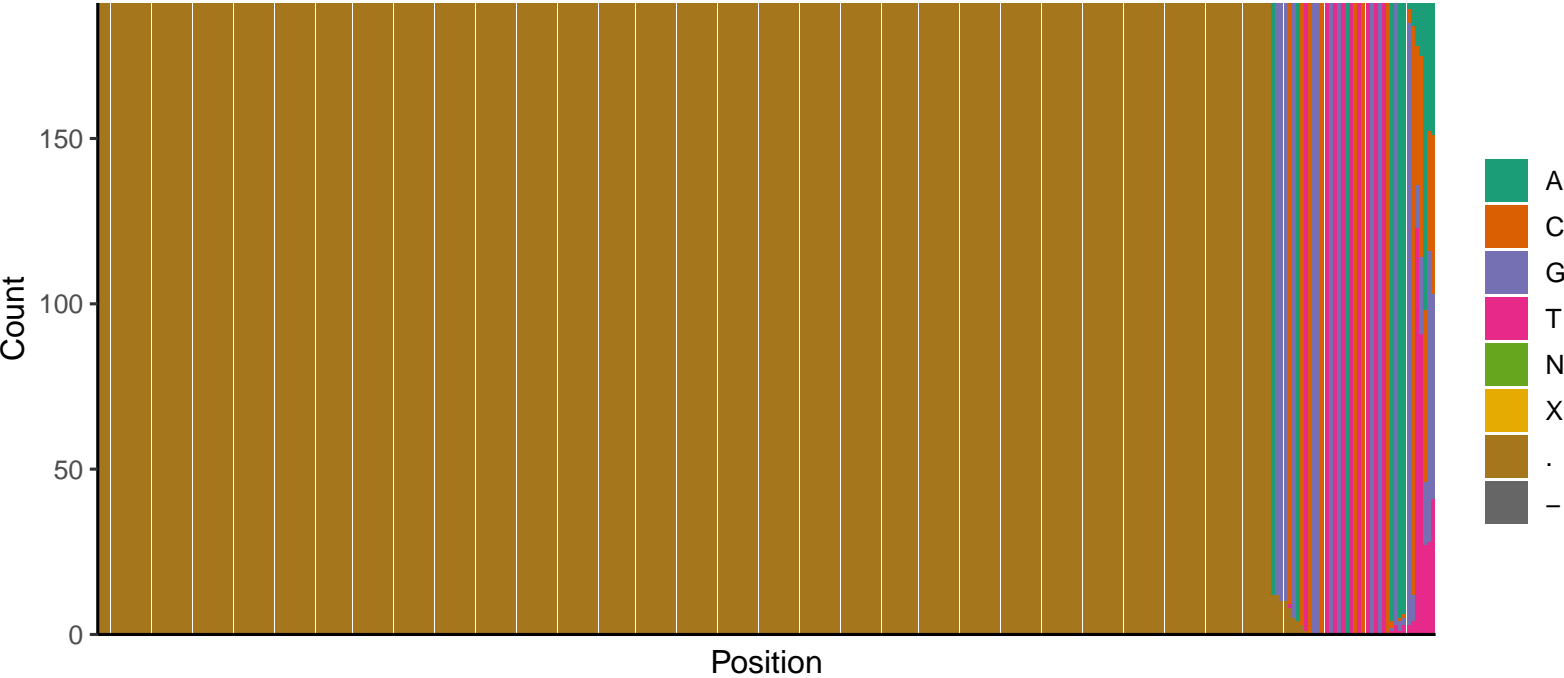
Gene TRBV7-1\*ap01\_G291C\_T296C



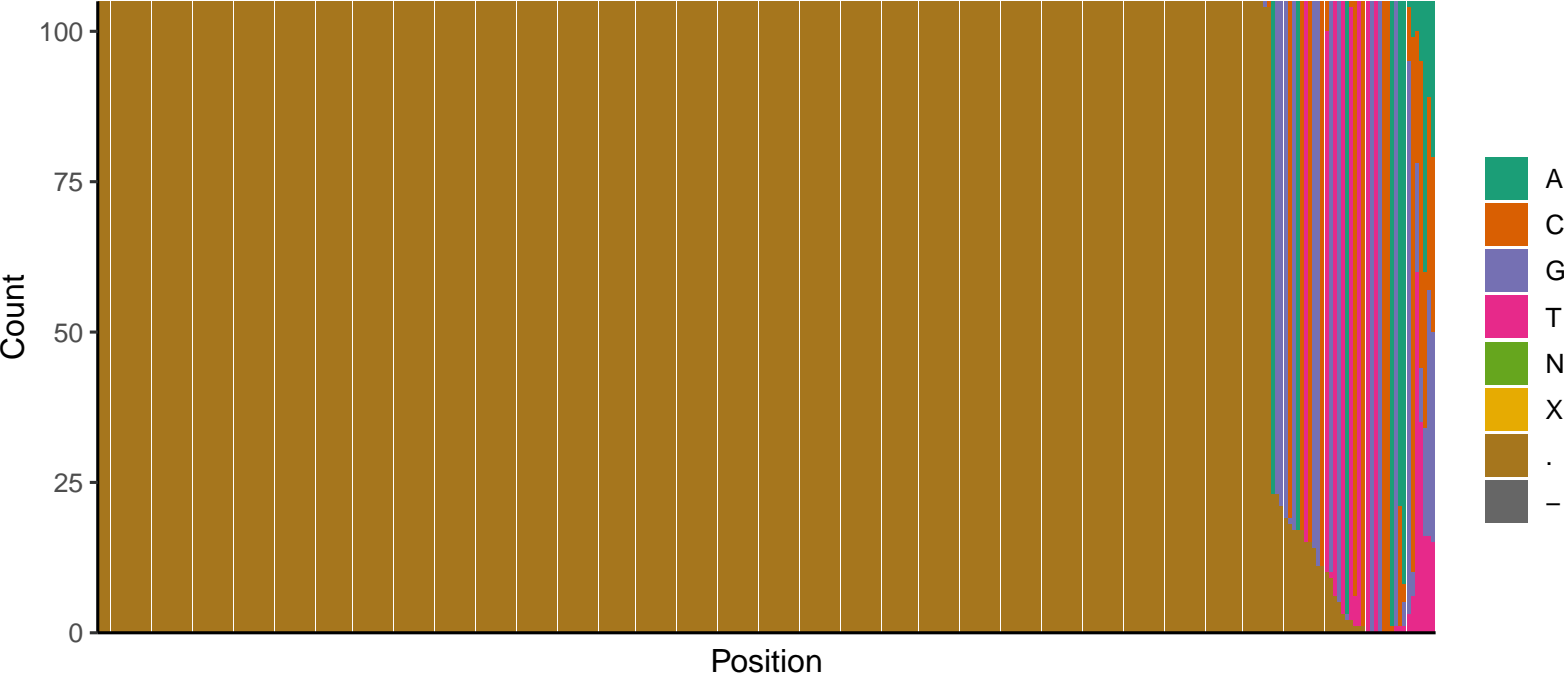
Gene TRBV7-7\*ap01\_C315T



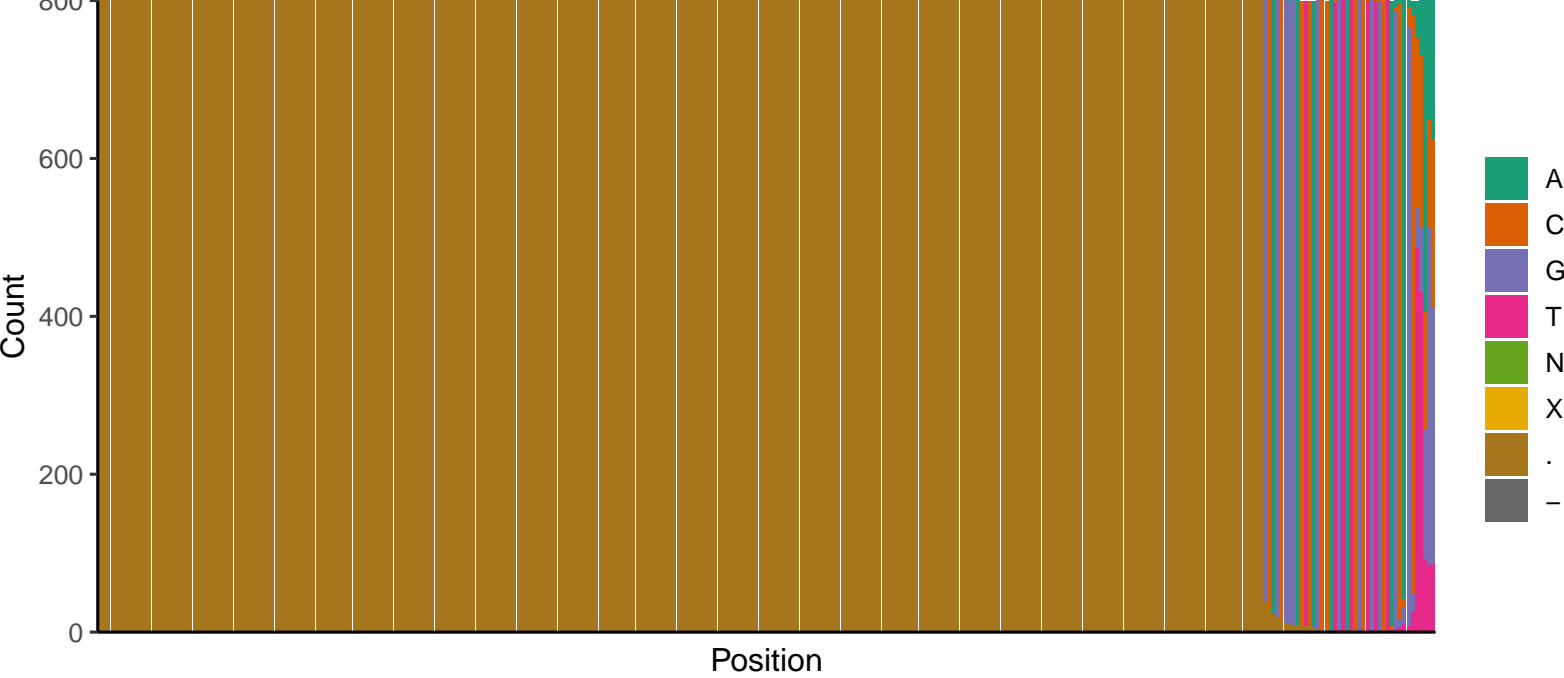
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



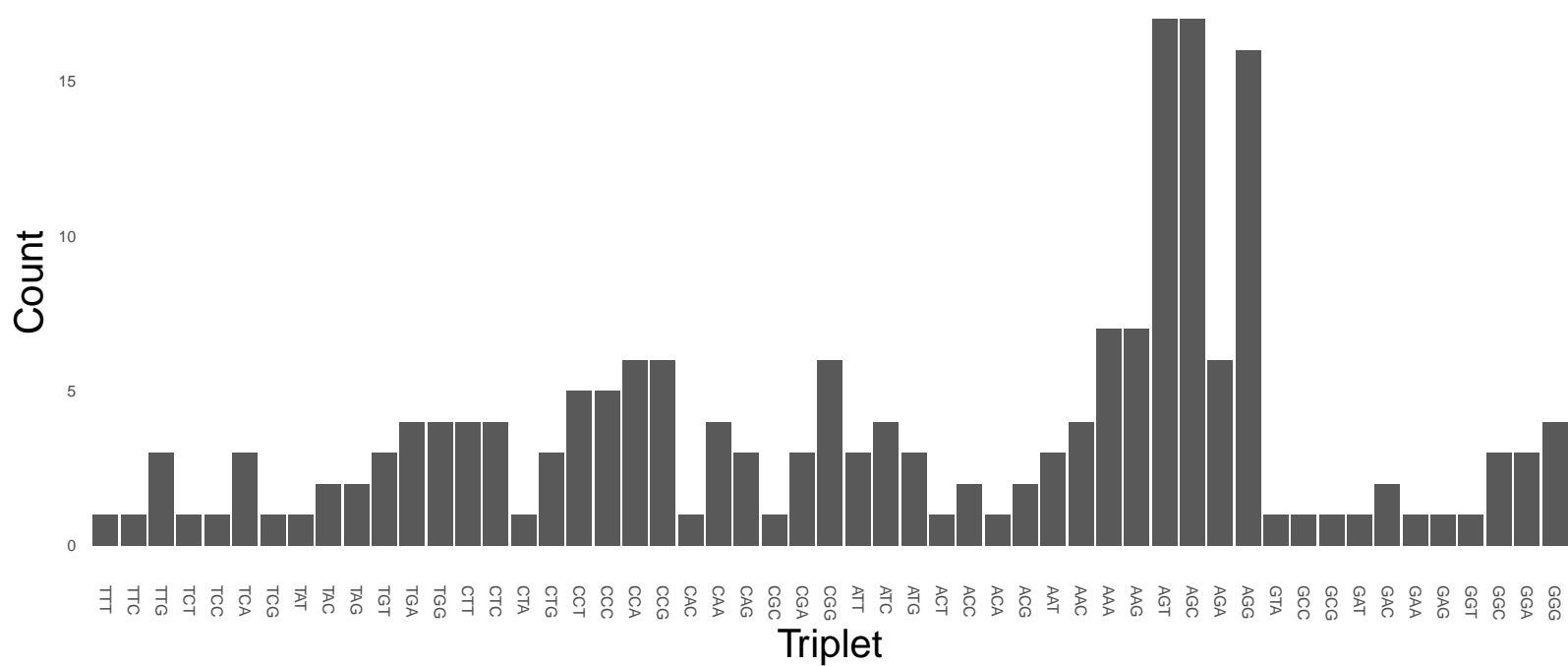
Gene TRBV7-1\*ap01\_G291C\_T296C



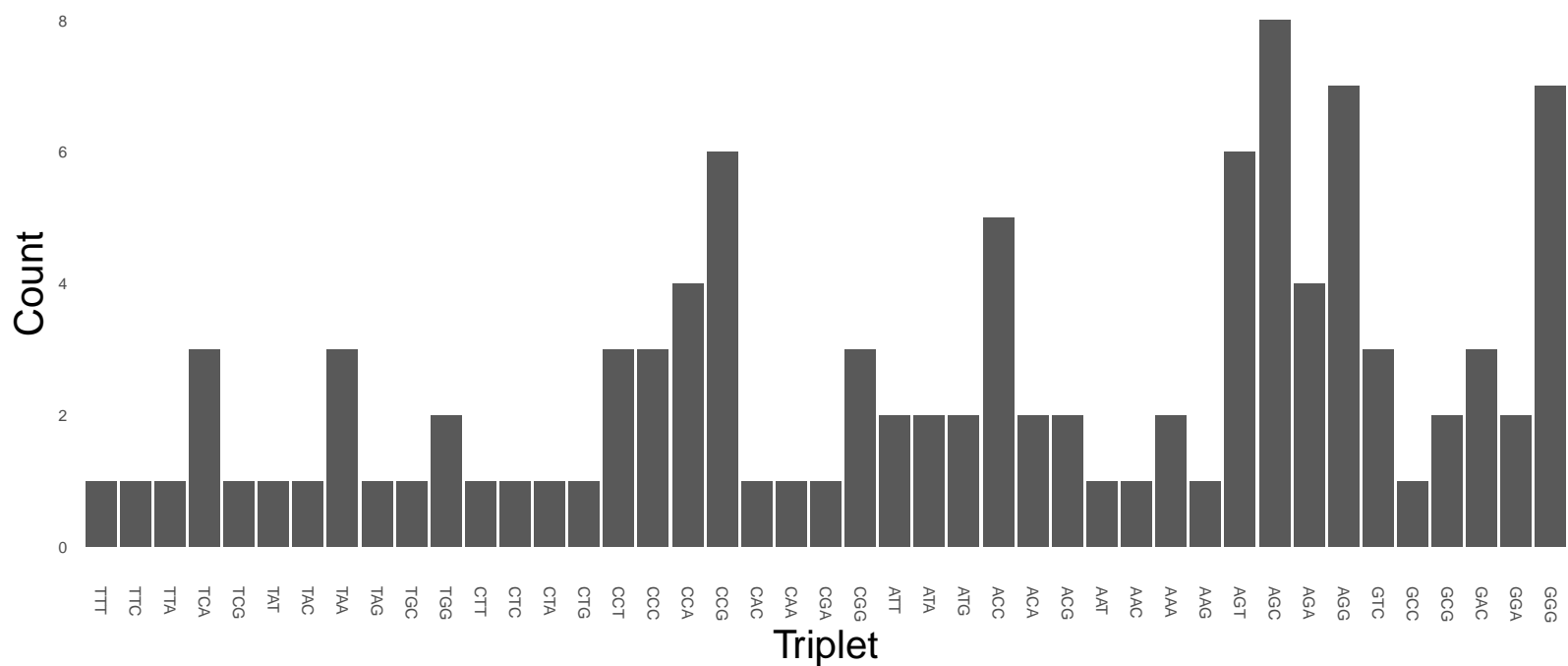
Gene TRBV7-7\*ap01\_C315T



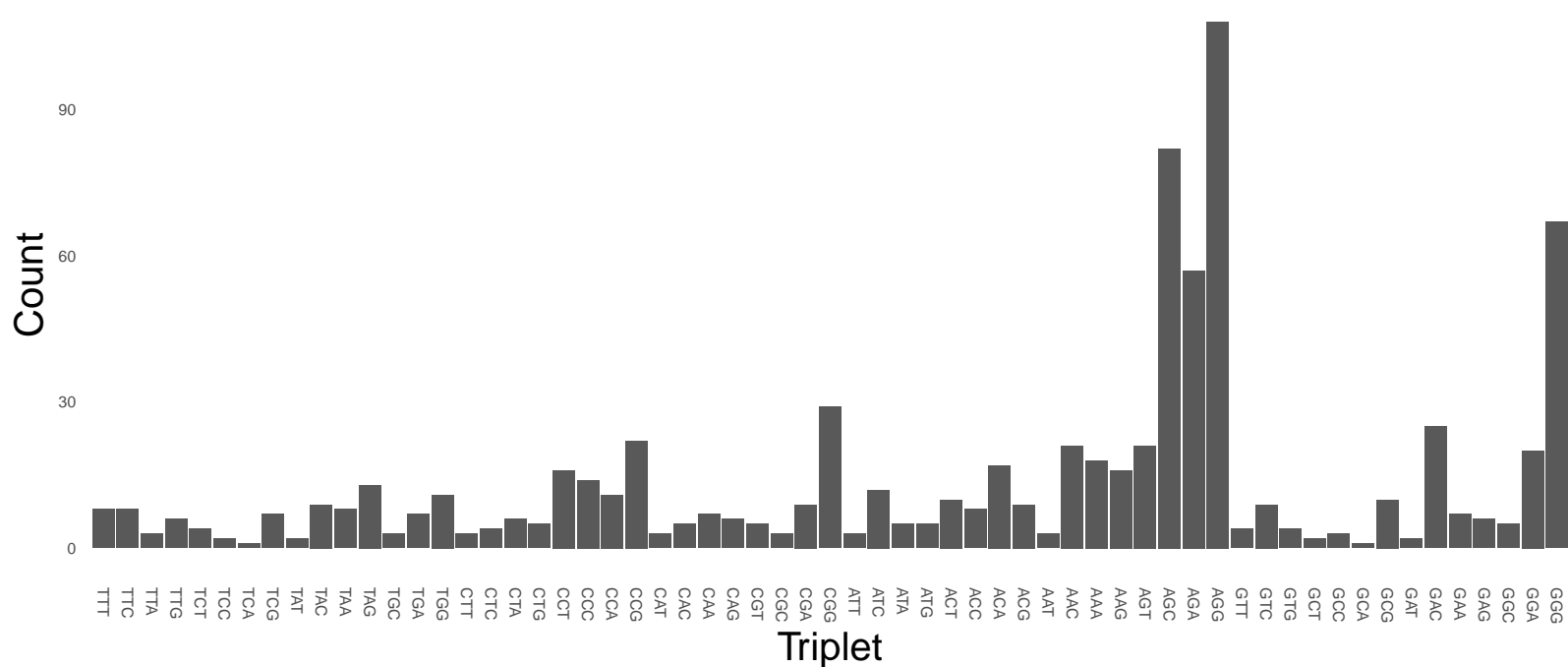
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

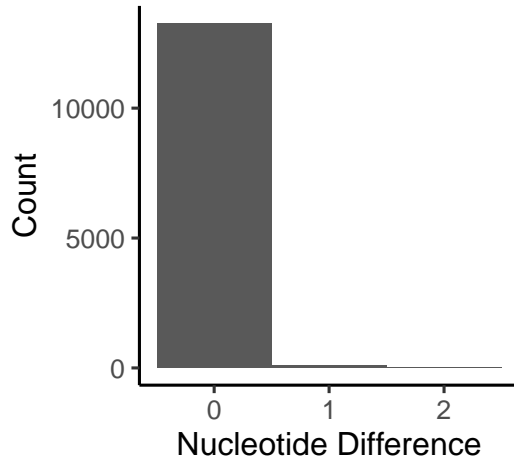


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



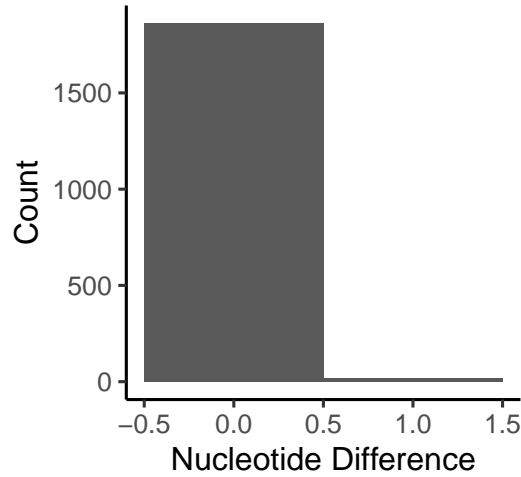
### TRBV20-1\*ap01

13382 sequences assigned  
13272 (99.2%) exact matches, in which:  
13102 unique CDR3  
13 unique J



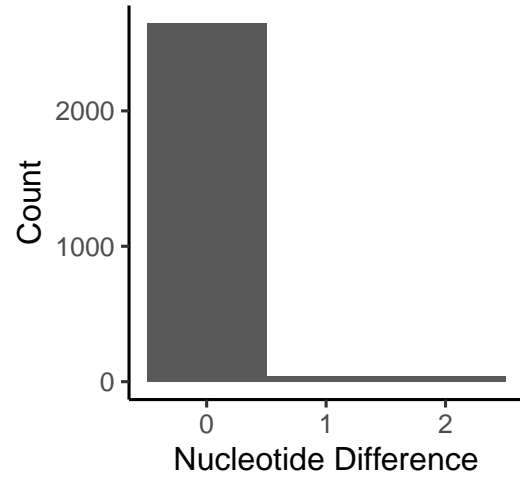
### TRBV10-2\*ap01

1880 sequences assigned  
1861 (99%) exact matches, in which:  
1830 unique CDR3  
13 unique J



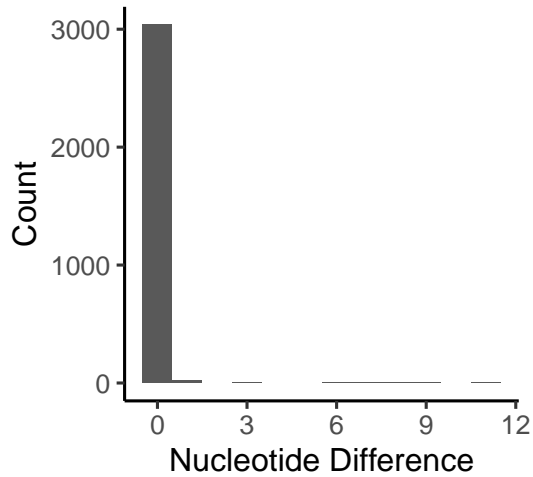
### TRBV13\*ap01

2729 sequences assigned  
2646 (97%) exact matches, in which:  
2573 unique CDR3  
13 unique J



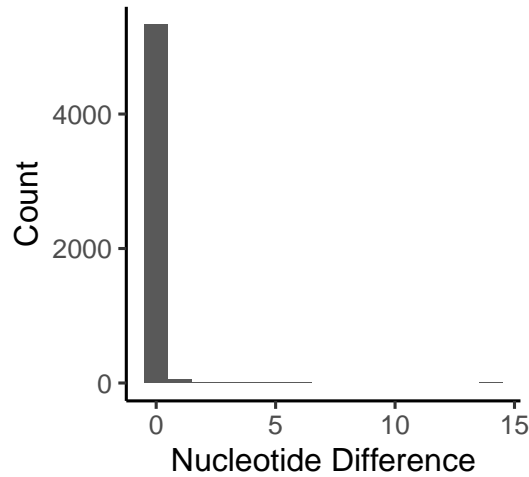
### TRBV10-1\*ap01

3070 sequences assigned  
3038 (99%) exact matches, in which:  
2975 unique CDR3  
13 unique J



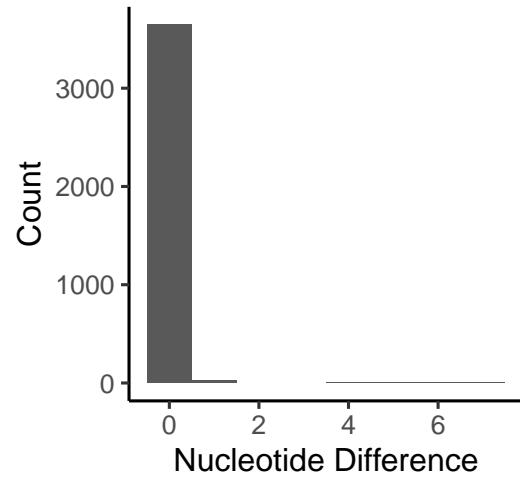
### TRBV10-3\*ap01

5395 sequences assigned  
5328 (98.8%) exact matches, in which:  
5203 unique CDR3  
13 unique J



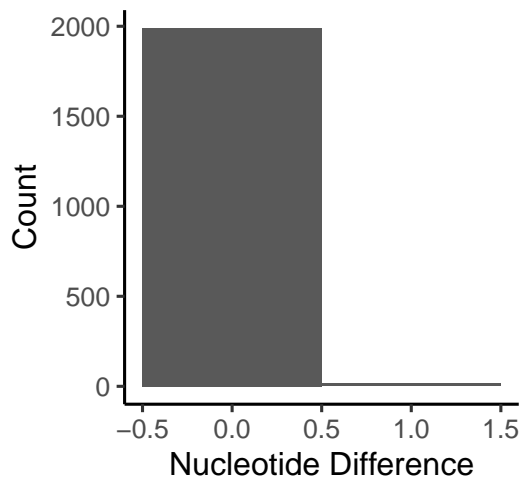
### TRBV14\*ap01

3676 sequences assigned  
3646 (99.2%) exact matches, in which:  
3598 unique CDR3  
13 unique J



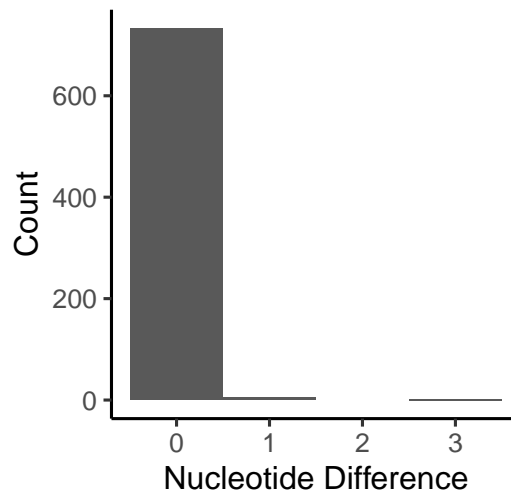
### TRBV20-1\*ap02

2005 sequences assigned  
1990 (99.3%) exact matches, in which:  
1959 unique CDR3  
13 unique J



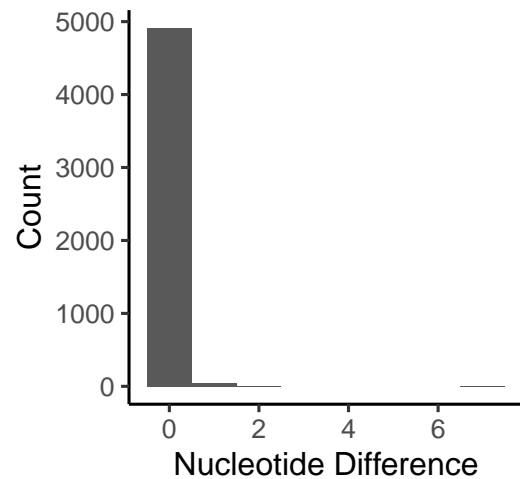
### TRBV1\*ap01

740 sequences assigned  
733 (99.1%) exact matches, in which:  
716 unique CDR3  
13 unique J



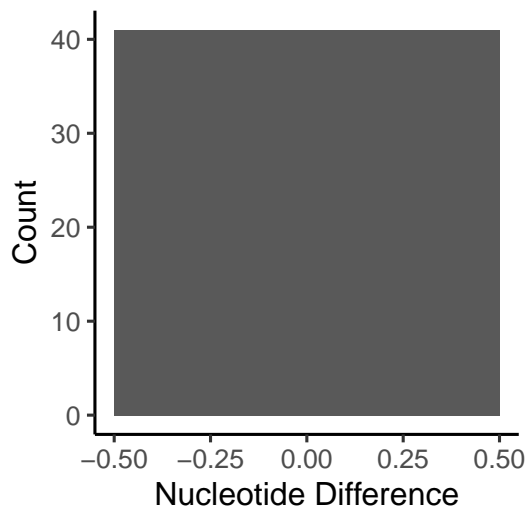
### TRBV15\*ap02

4960 sequences assigned  
4912 (99%) exact matches, in which:  
4801 unique CDR3  
13 unique J



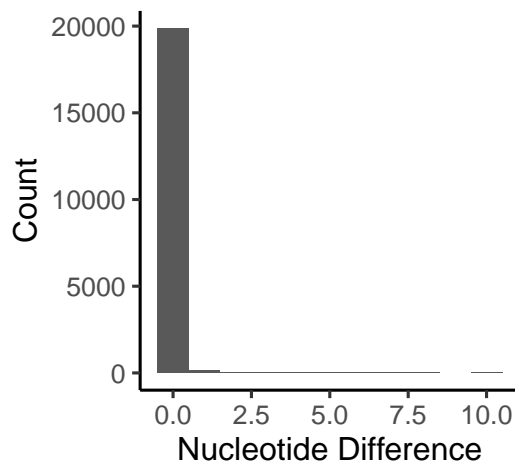
### TRBV16\*ap01

41 sequences assigned  
41 (100%) exact matches, in which:  
41 unique CDR3  
9 unique J



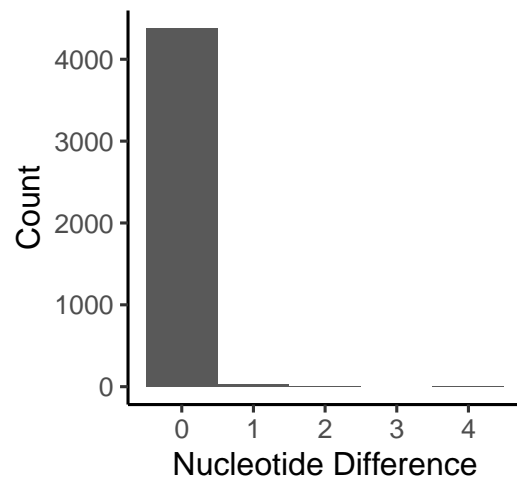
### TRBV19\*ap01

20056 sequences assigned  
19882 (99.1%) exact matches, in which:  
19706 unique CDR3  
13 unique J



### TRBV28\*ap01

4407 sequences assigned  
4377 (99.3%) exact matches, in which:  
4306 unique CDR3  
13 unique J



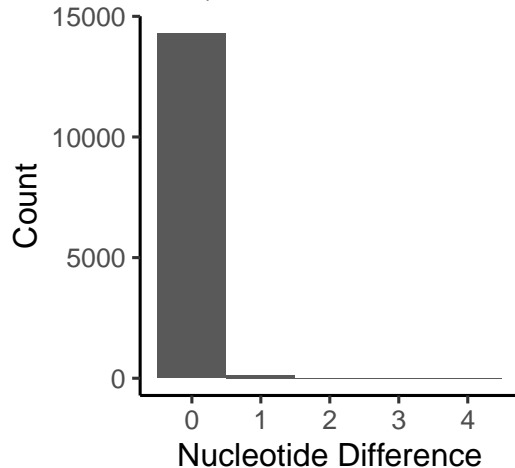
### TRBV17\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



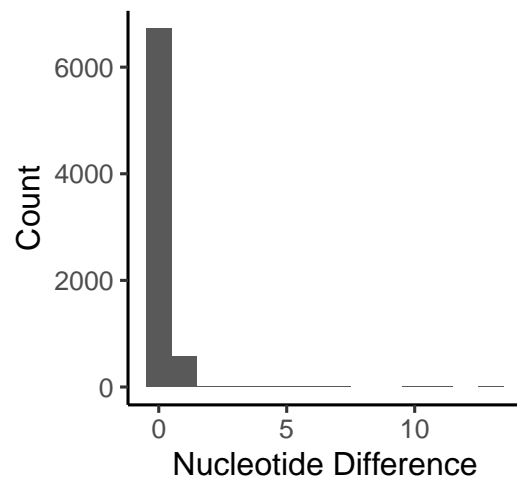
### TRBV2\*ap01

14439 sequences assigned  
14290 (99%) exact matches, in which:  
13984 unique CDR3  
13 unique J



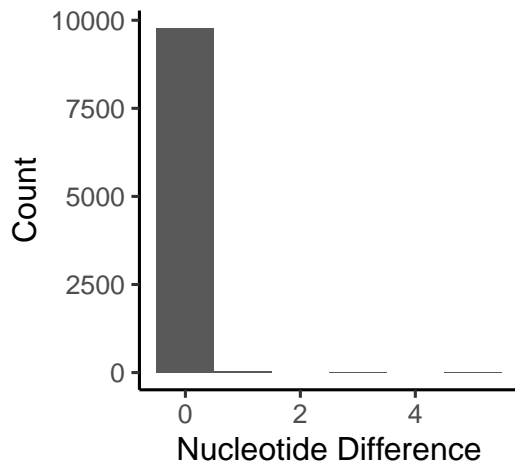
### TRBV30\*ap01

7305 sequences assigned  
6721 (92%) exact matches, in which:  
6583 unique CDR3  
13 unique J



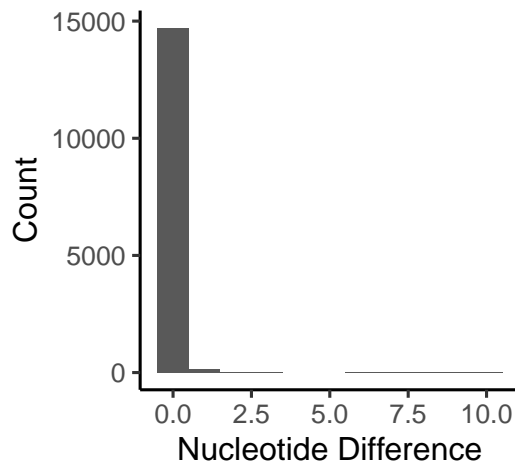
### TRBV18\*ap01

9829 sequences assigned  
9786 (99.6%) exact matches, in which:  
9680 unique CDR3  
13 unique J



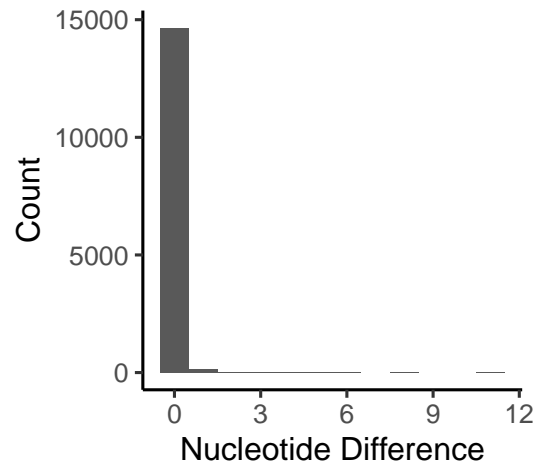
### TRBV27\*ap01

14891 sequences assigned  
14715 (98.8%) exact matches, in which:  
14328 unique CDR3  
13 unique J



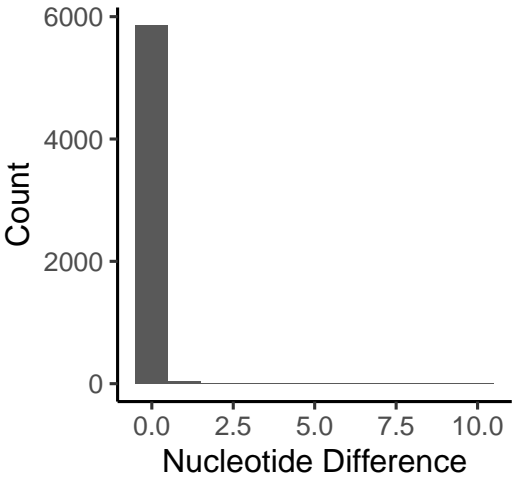
### TRBV9\*ap01

14814 sequences assigned  
14656 (98.9%) exact matches, in which:  
14422 unique CDR3  
14 unique J



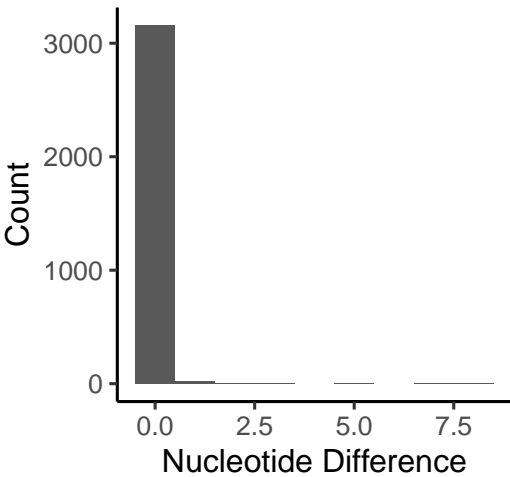
TRBV21-1\*ap01

5924 sequences assigned  
5857 (98.9%) exact matches, in which:  
5781 unique CDR3  
13 unique J



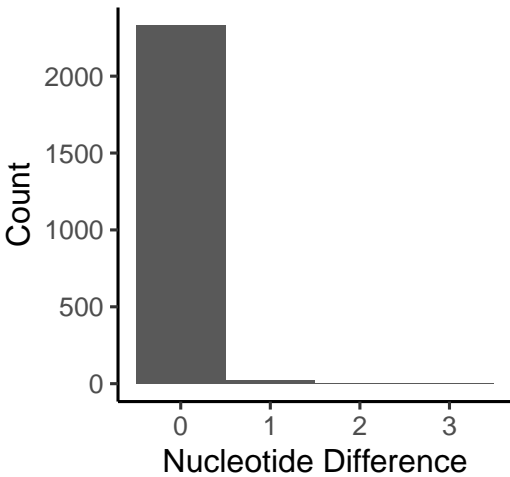
TRBV11-3\*ap01

3184 sequences assigned  
3157 (99.2%) exact matches, in which:  
3119 unique CDR3  
13 unique J



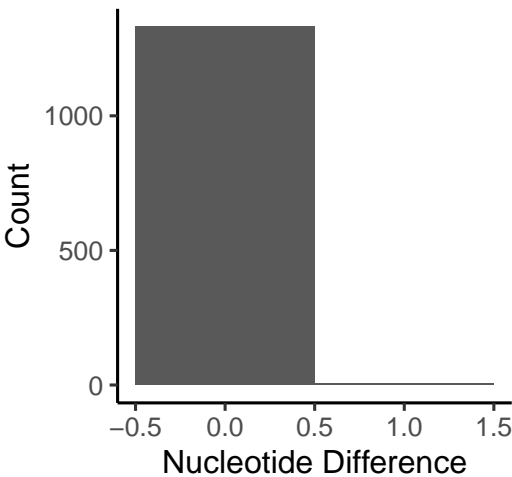
TRBV12-5\*ap01

2356 sequences assigned  
2330 (98.9%) exact matches, in which:  
2291 unique CDR3  
13 unique J



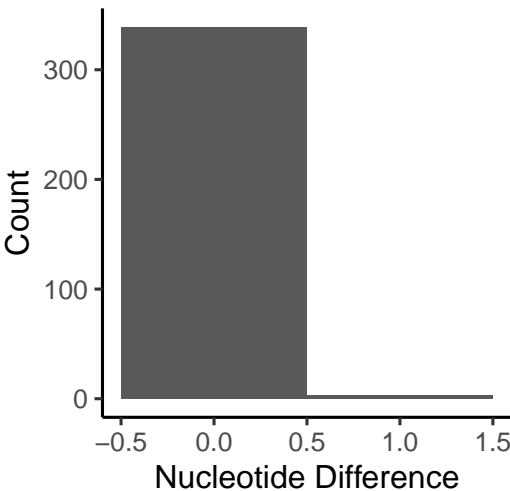
TRBV11-1\*ap01

1336 sequences assigned  
1331 (99.6%) exact matches, in which:  
1320 unique CDR3  
13 unique J



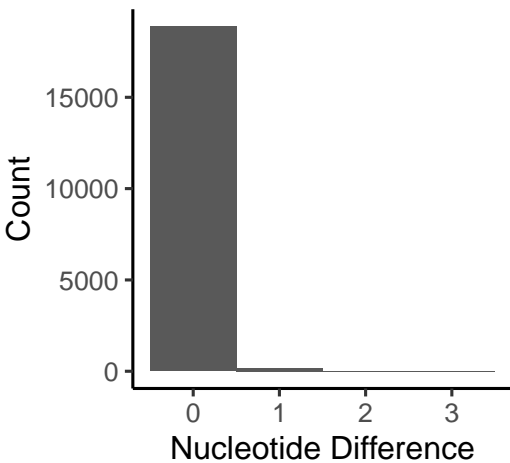
TRBV12-1\*ap01

342 sequences assigned  
339 (99.1%) exact matches, in which:  
328 unique CDR3  
13 unique J



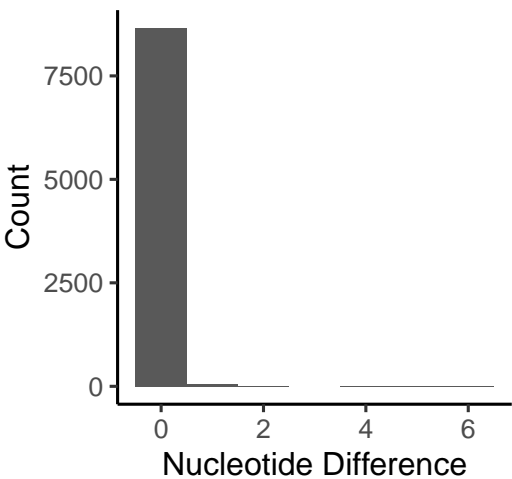
TRBV12-34\*ap01

19053 sequences assigned  
18879 (99.1%) exact matches, in which:  
18523 unique CDR3  
13 unique J



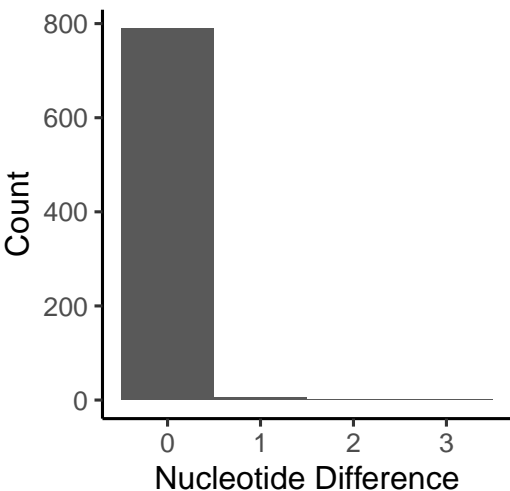
TRBV11-2\*ap01

8718 sequences assigned  
8656 (99.3%) exact matches, in which:  
8542 unique CDR3  
13 unique J



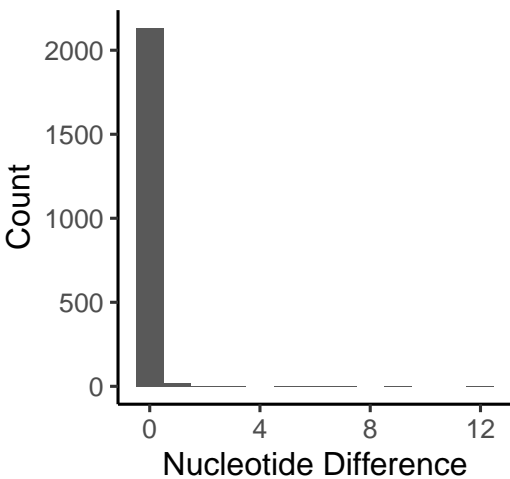
TRBV12-2\*ap01

798 sequences assigned  
790 (99%) exact matches, in which:  
780 unique CDR3  
13 unique J



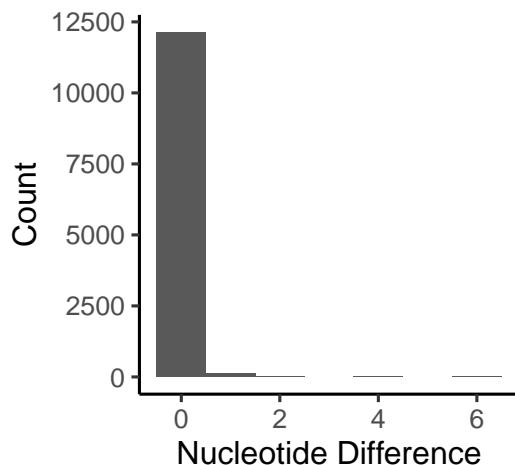
TRBV23-1\*ap01

2160 sequences assigned  
2132 (98.7%) exact matches, in which:  
2088 unique CDR3  
13 unique J



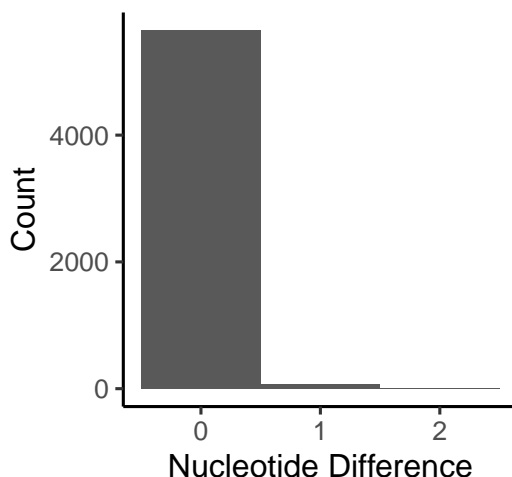
### TRBV3–12\*ap01

12284 sequences assigned  
12139 (98.8%) exact matches, in which:  
11888 unique CDR3  
13 unique J



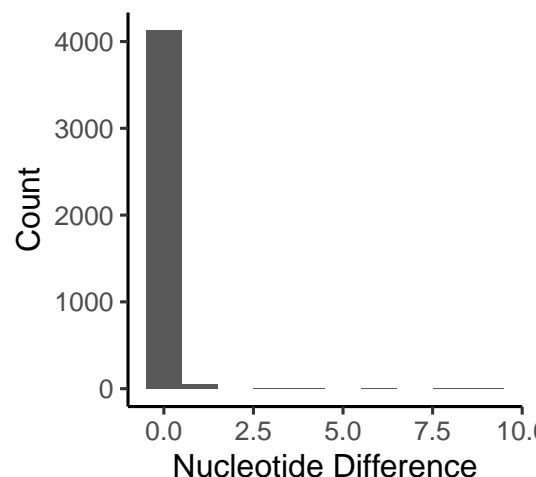
### TRBV4–2\*ap01

5726 sequences assigned  
5652 (98.7%) exact matches, in which:  
5532 unique CDR3  
13 unique J



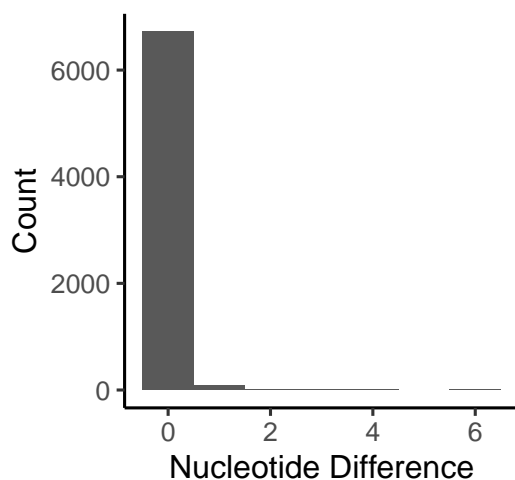
### TRBV25–1\*ap01

4186 sequences assigned  
4128 (98.6%) exact matches, in which:  
4029 unique CDR3  
13 unique J



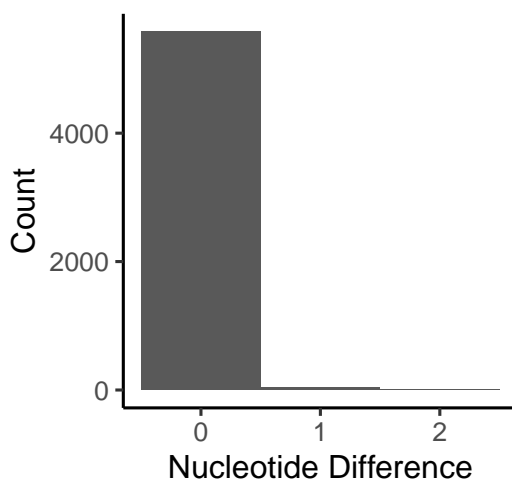
### TRBV24–1\*ap01

6828 sequences assigned  
6719 (98.4%) exact matches, in which:  
6557 unique CDR3  
14 unique J



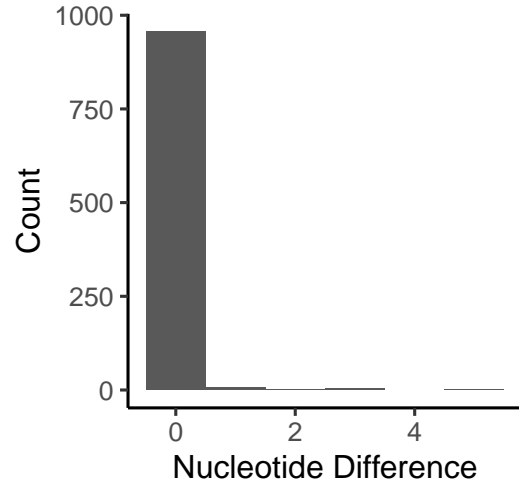
### TRBV4–3\*ap01

5627 sequences assigned  
5580 (99.2%) exact matches, in which:  
5457 unique CDR3  
13 unique J



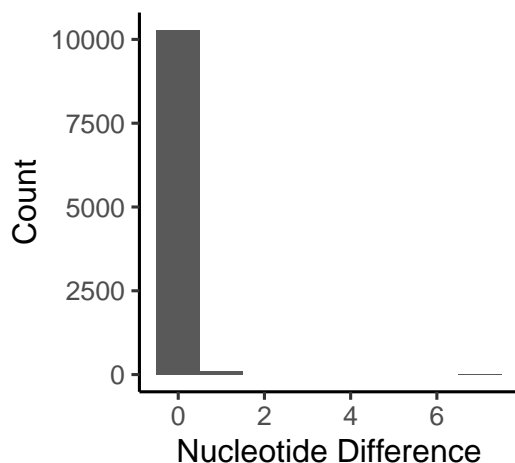
### TRBV5–3\*ap01

967 sequences assigned  
956 (98.9%) exact matches, in which:  
943 unique CDR3  
13 unique J



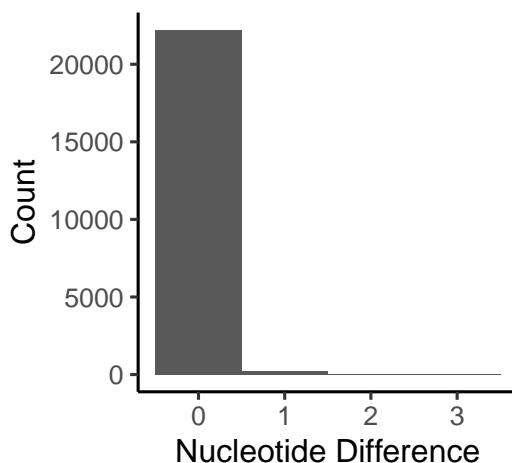
### TRBV4–1\*ap01

10407 sequences assigned  
10287 (98.8%) exact matches, in which:  
10042 unique CDR3  
14 unique J



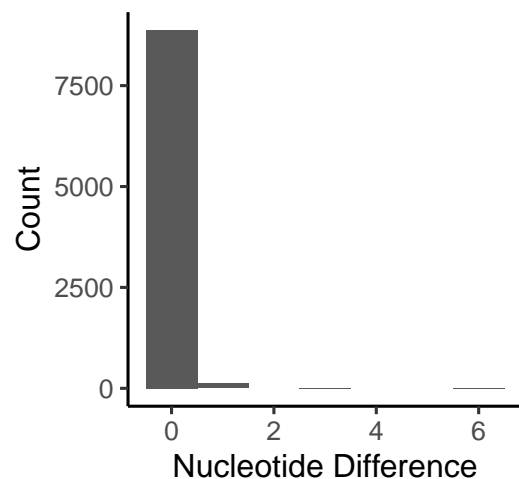
### TRBV5–1\*ap01

22447 sequences assigned  
22220 (99%) exact matches, in which:  
21597 unique CDR3  
13 unique J



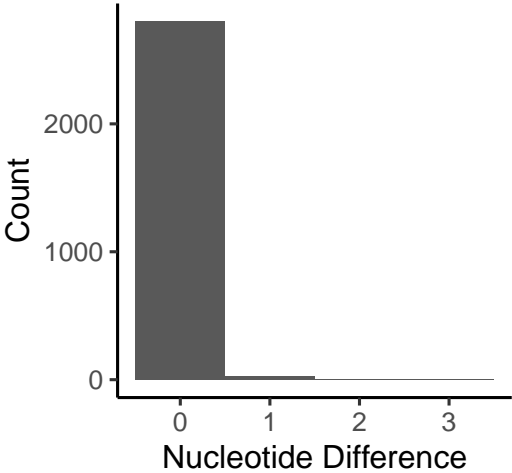
### TRBV5–4\*ap01

8996 sequences assigned  
8877 (98.7%) exact matches, in which:  
8680 unique CDR3  
13 unique J



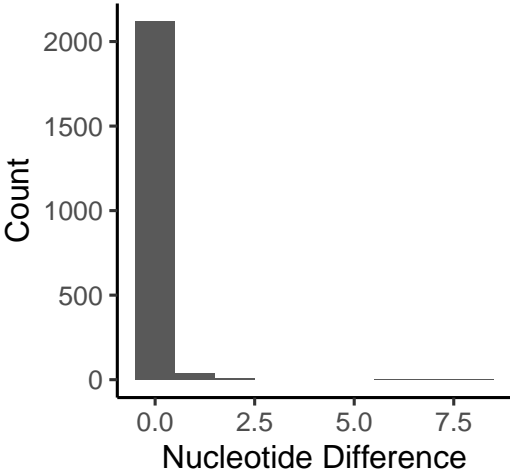
TRBV5-5\*ap01

2827 sequences assigned  
2801 (99.1%) exact matches, in which:  
2772 unique CDR3  
13 unique J



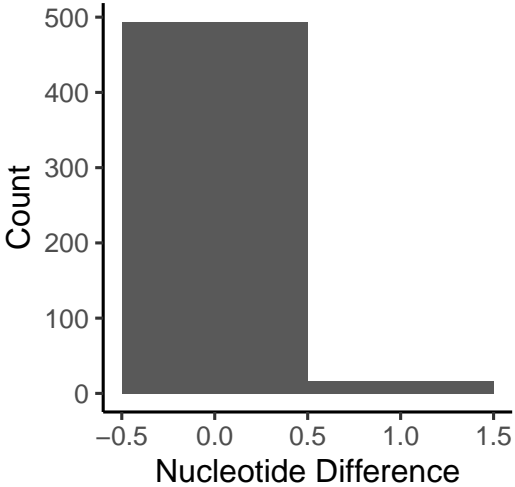
TRBV5-8\*ap01

2170 sequences assigned  
2119 (97.6%) exact matches, in which:  
2091 unique CDR3  
13 unique J



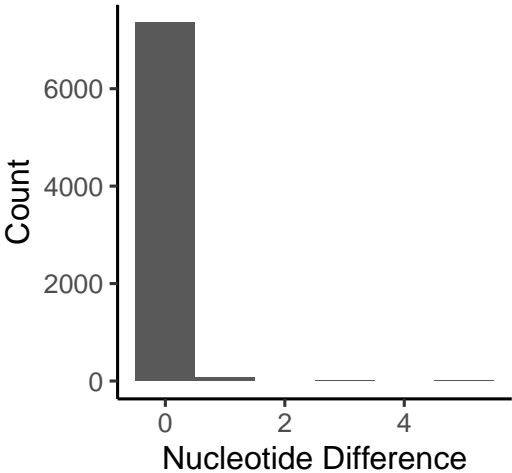
TRBV6-7\*ap01

510 sequences assigned  
494 (96.9%) exact matches, in which:  
480 unique CDR3  
13 unique J



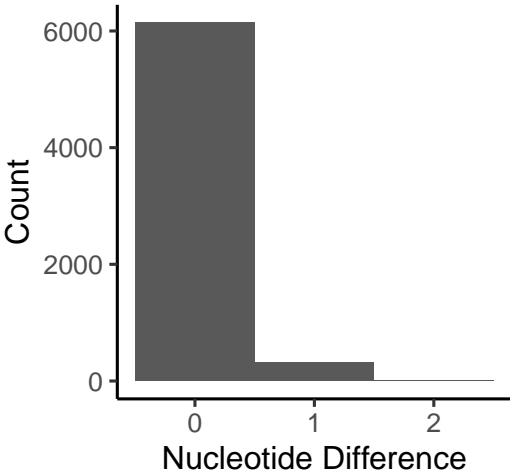
TRBV5-6\*ap01

7435 sequences assigned  
7354 (98.9%) exact matches, in which:  
7160 unique CDR3  
13 unique J



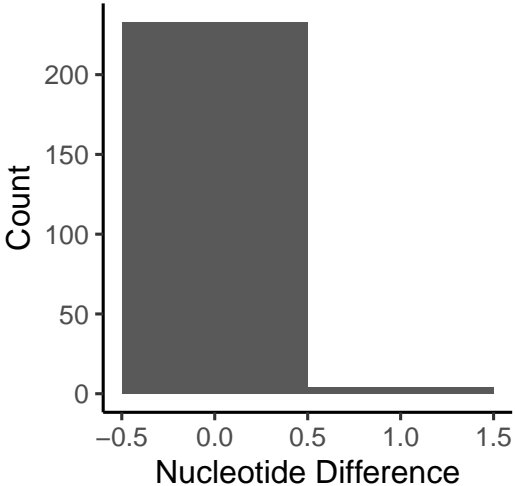
TRBV6-1\*ap01

6462 sequences assigned  
6141 (95%) exact matches, in which:  
5983 unique CDR3  
13 unique J



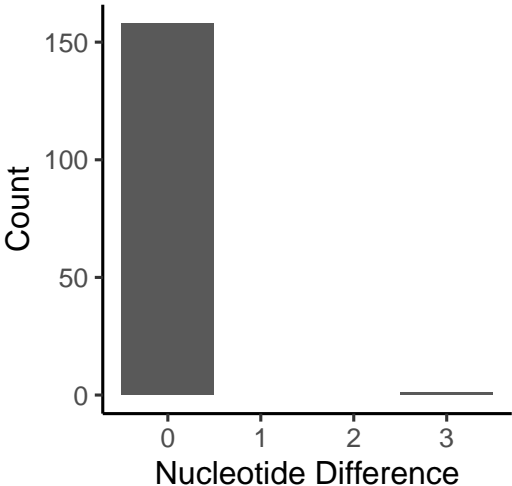
TRBV6-8\*ap01

237 sequences assigned  
233 (98.3%) exact matches, in which:  
227 unique CDR3  
13 unique J



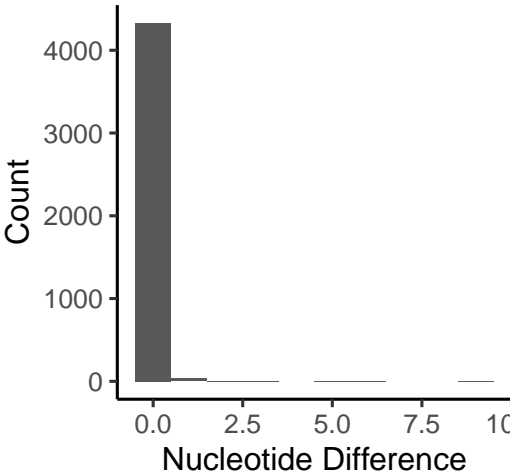
TRBV5-7\*ap01

159 sequences assigned  
158 (99.4%) exact matches, in which:  
156 unique CDR3  
13 unique J



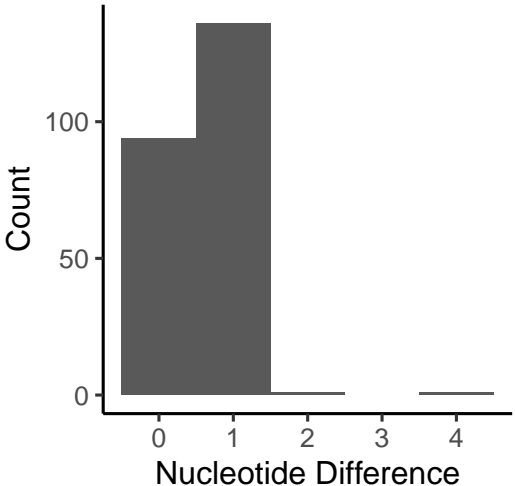
TRBV6-4\*ap01

4380 sequences assigned  
4329 (98.8%) exact matches, in which:  
4257 unique CDR3  
13 unique J



TRBV6-9\*ap01

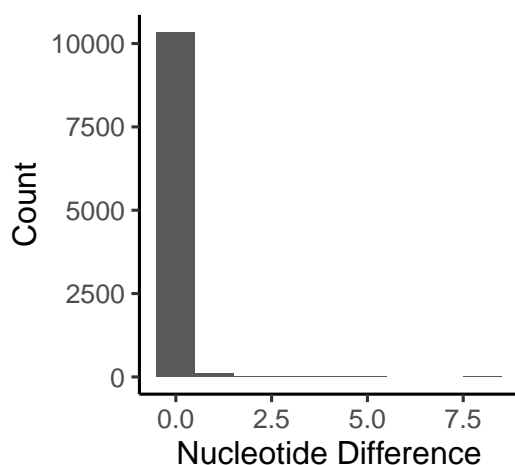
232 sequences assigned  
94 (40.5%) exact matches, in which:  
90 unique CDR3  
12 unique J





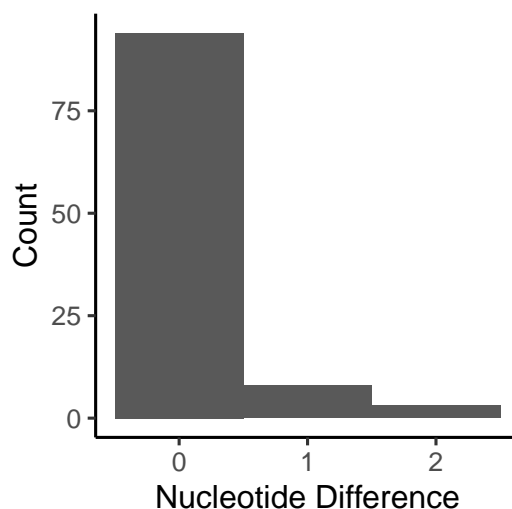
### TRBV6-23\*ap01

10453 sequences assigned  
10342 (98.9%) exact matches, in which:  
10059 unique CDR3  
13 unique J



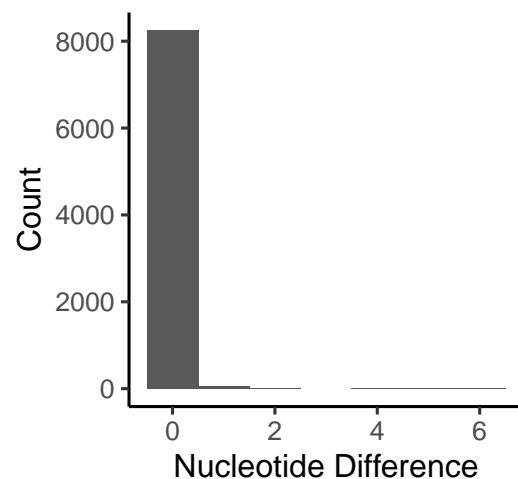
### TRBV7-1\*ap01\_G291C\_T

105 sequences assigned  
94 (89.5%) exact matches, in which:  
94 unique CDR3  
11 unique J



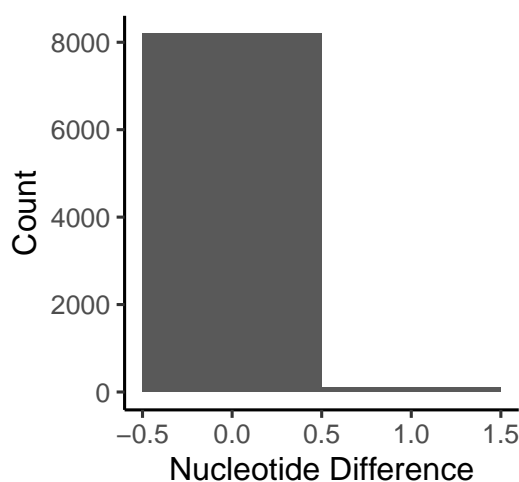
### TRBV7-3\*ap01

8318 sequences assigned  
8248 (99.2%) exact matches, in which:  
8150 unique CDR3  
13 unique J



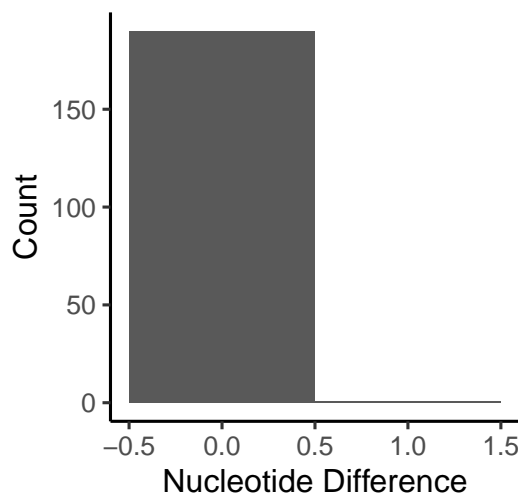
### TRBV6-56\*ap01

8287 sequences assigned  
8195 (98.9%) exact matches, in which:  
8011 unique CDR3  
13 unique J



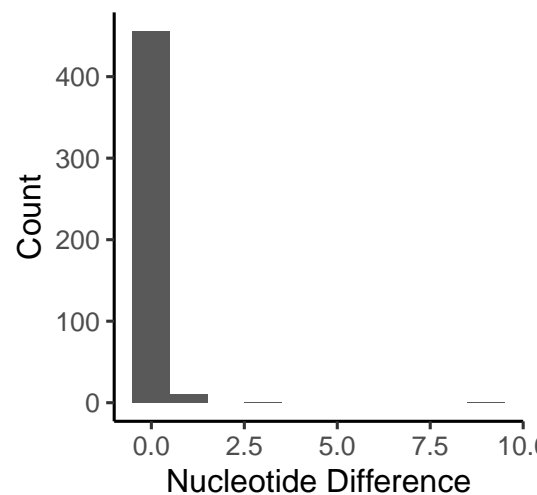
### TRBV7-1\*ap01\_G291C\_

191 sequences assigned  
190 (99.5%) exact matches, in which:  
186 unique CDR3  
13 unique J



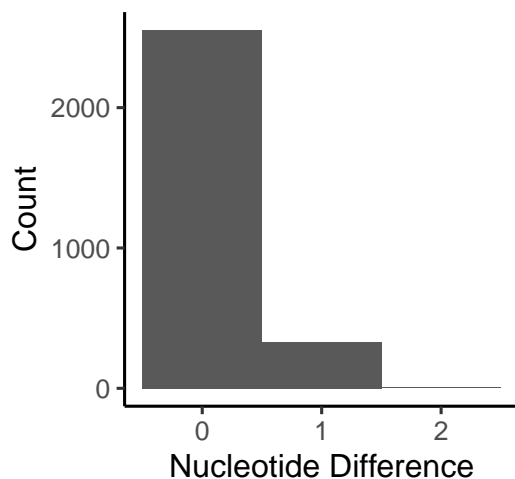
### TRBV7-4\*ap01

468 sequences assigned  
456 (97.4%) exact matches, in which:  
449 unique CDR3  
13 unique J



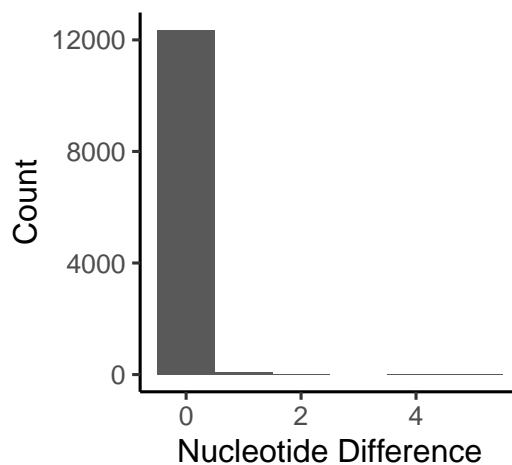
### TRBV6-56\*ap02

2890 sequences assigned  
2553 (88.3%) exact matches, in which:  
2479 unique CDR3  
13 unique J



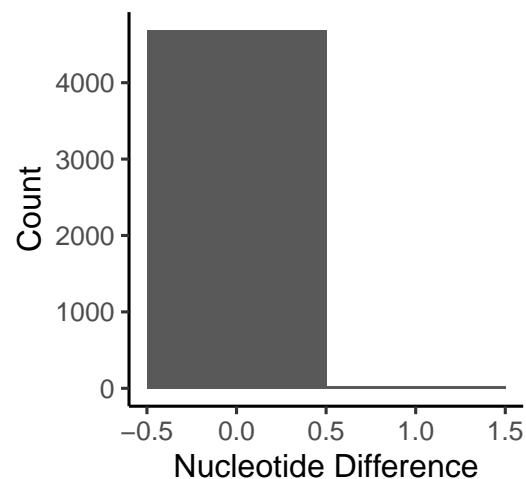
### TRBV7-2\*ap01

12453 sequences assigned  
12362 (99.3%) exact matches, in which:  
12187 unique CDR3  
13 unique J



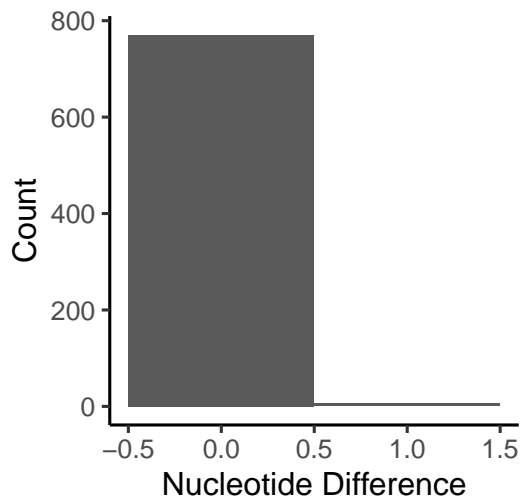
### TRBV7-6\*ap01

4717 sequences assigned  
4689 (99.4%) exact matches, in which:  
4599 unique CDR3  
13 unique J



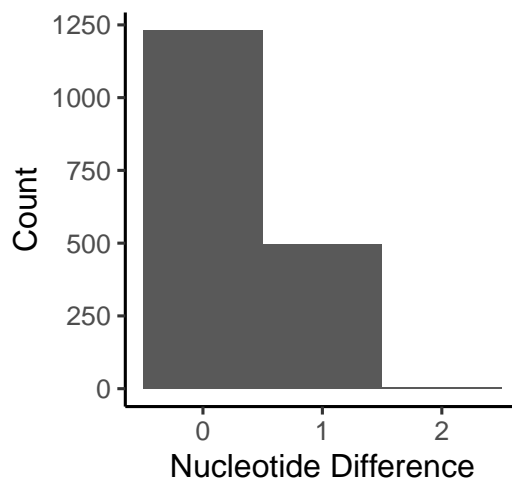
### TRBV7-7\*ap01

777 sequences assigned  
771 (99.2%) exact matches, in which:  
760 unique CDR3  
13 unique J



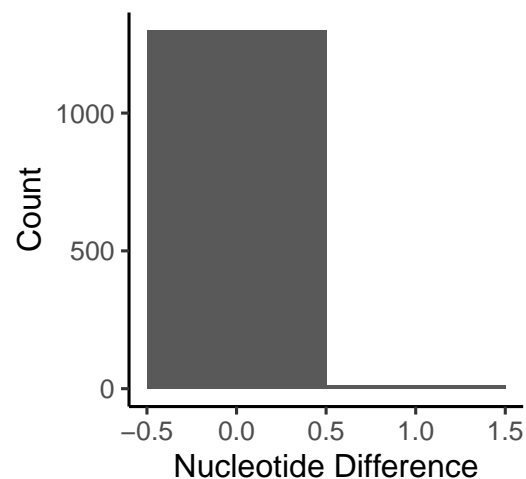
### TRBV7-8\*ap03

1732 sequences assigned  
1231 (71.1%) exact matches, in which:  
1201 unique CDR3  
13 unique J



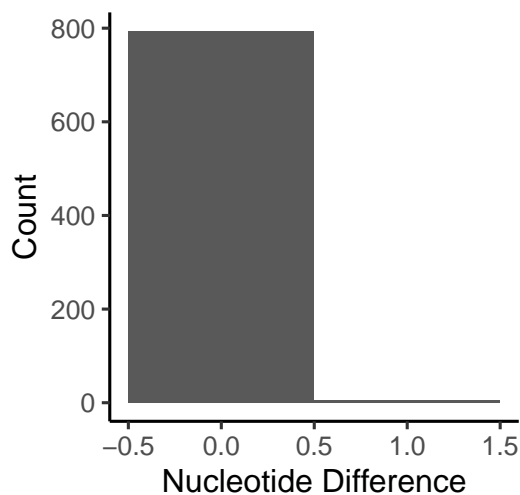
### TRBV29-1\*ap02

1313 sequences assigned  
1300 (99%) exact matches, in which:  
1265 unique CDR3  
13 unique J



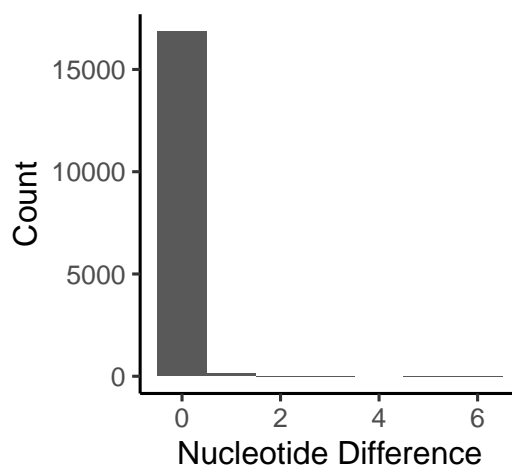
### TRBV7-7\*ap01\_C315T

800 sequences assigned  
794 (99.2%) exact matches, in which:  
785 unique CDR3  
13 unique J



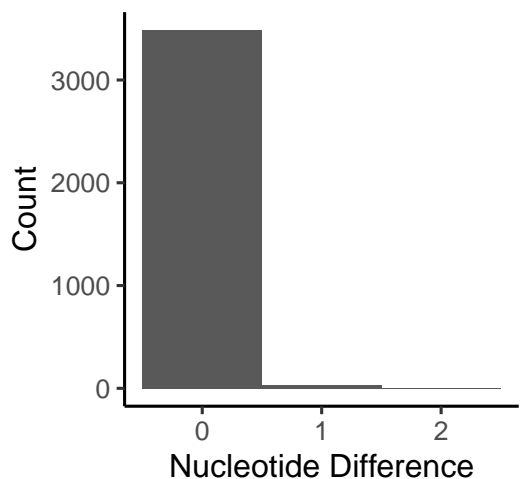
### TRBV7-9\*ap01

17011 sequences assigned  
16857 (99.1%) exact matches, in which:  
16595 unique CDR3  
13 unique J



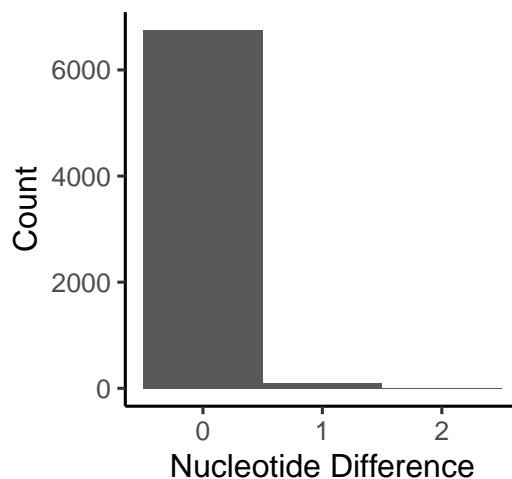
### TRBV7-8\*ap01

3522 sequences assigned  
3486 (99%) exact matches, in which:  
3417 unique CDR3  
13 unique J

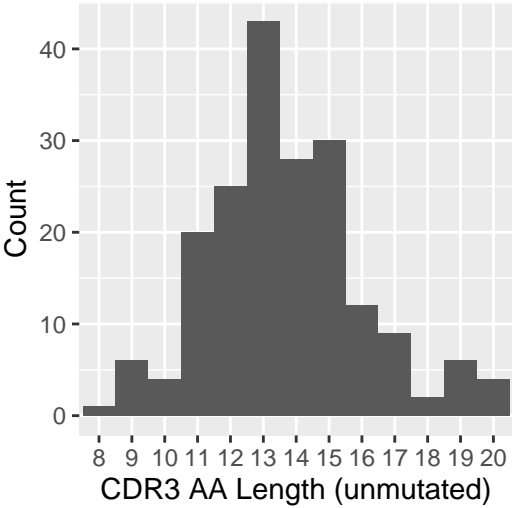


### TRBV29-1\*ap01

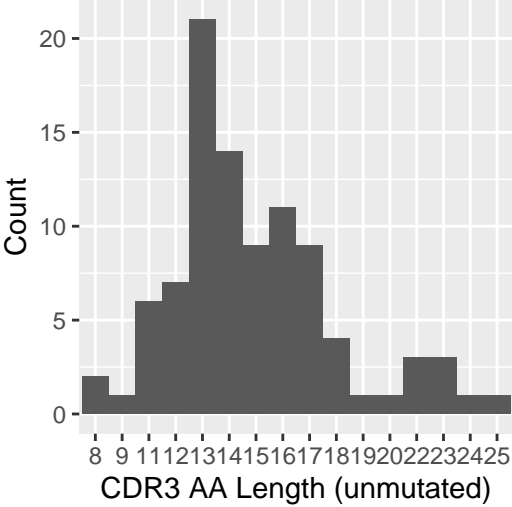
6853 sequences assigned  
6751 (98.5%) exact matches, in which:  
6598 unique CDR3  
13 unique J



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



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

