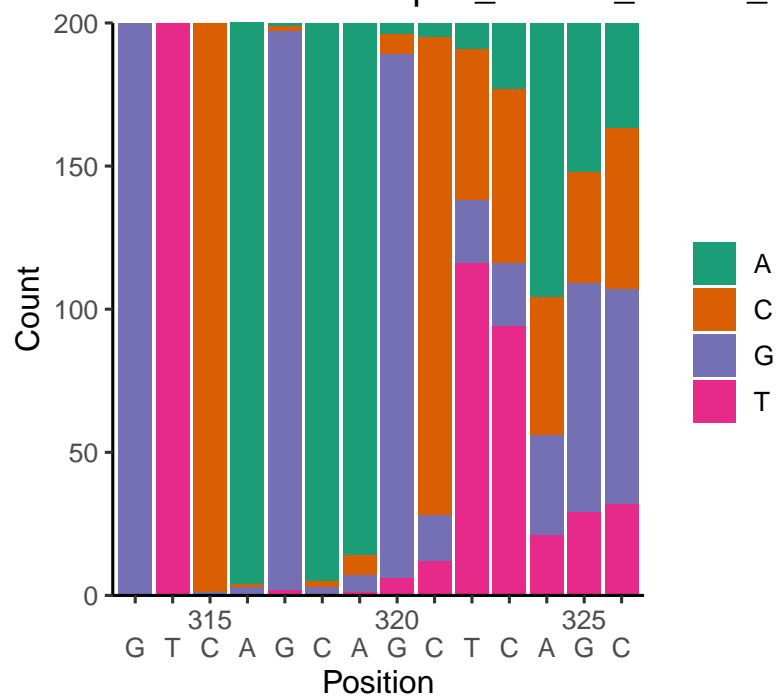
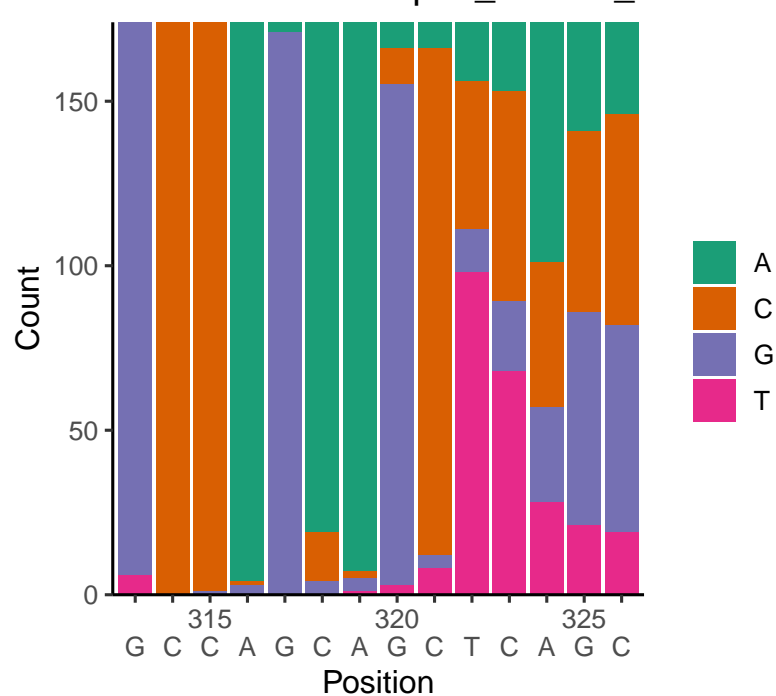


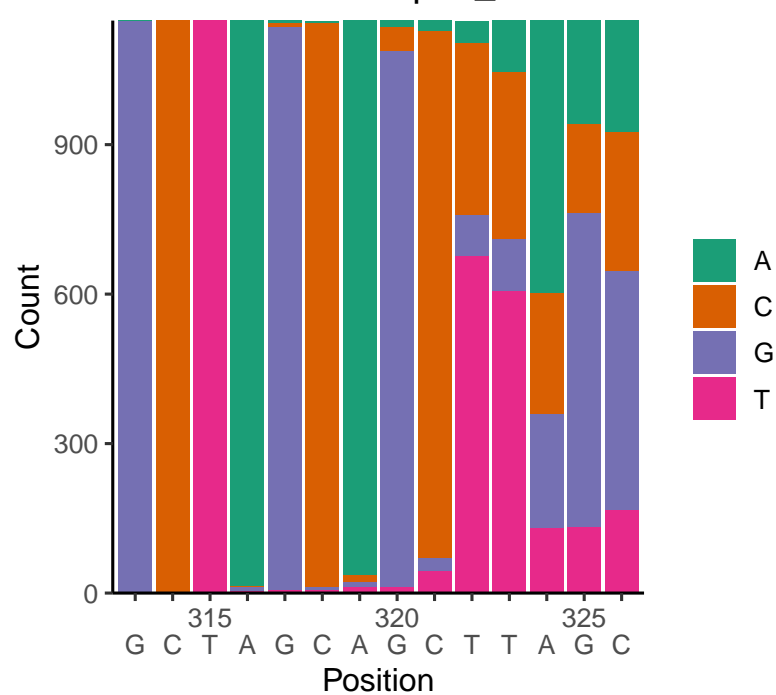
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



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



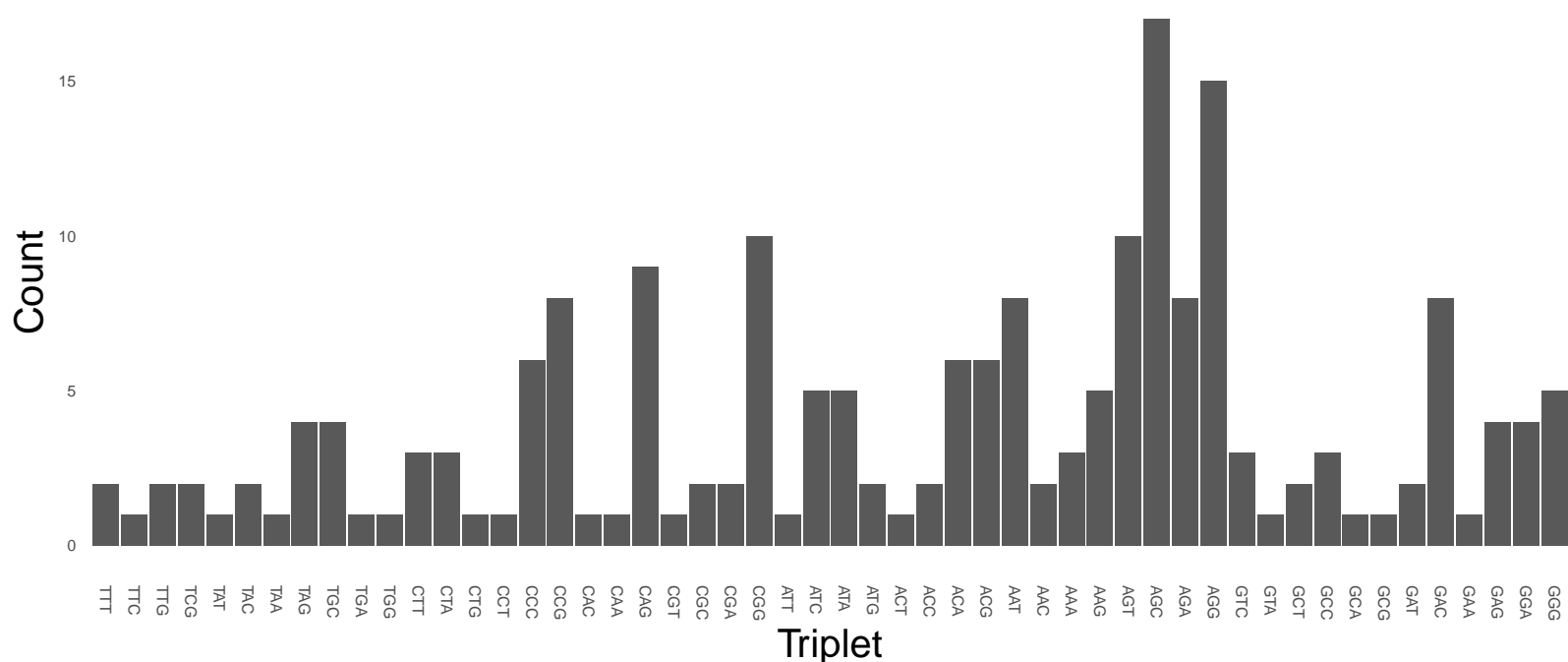
Gene TRBV7-1\*ap01\_G291C\_T296C



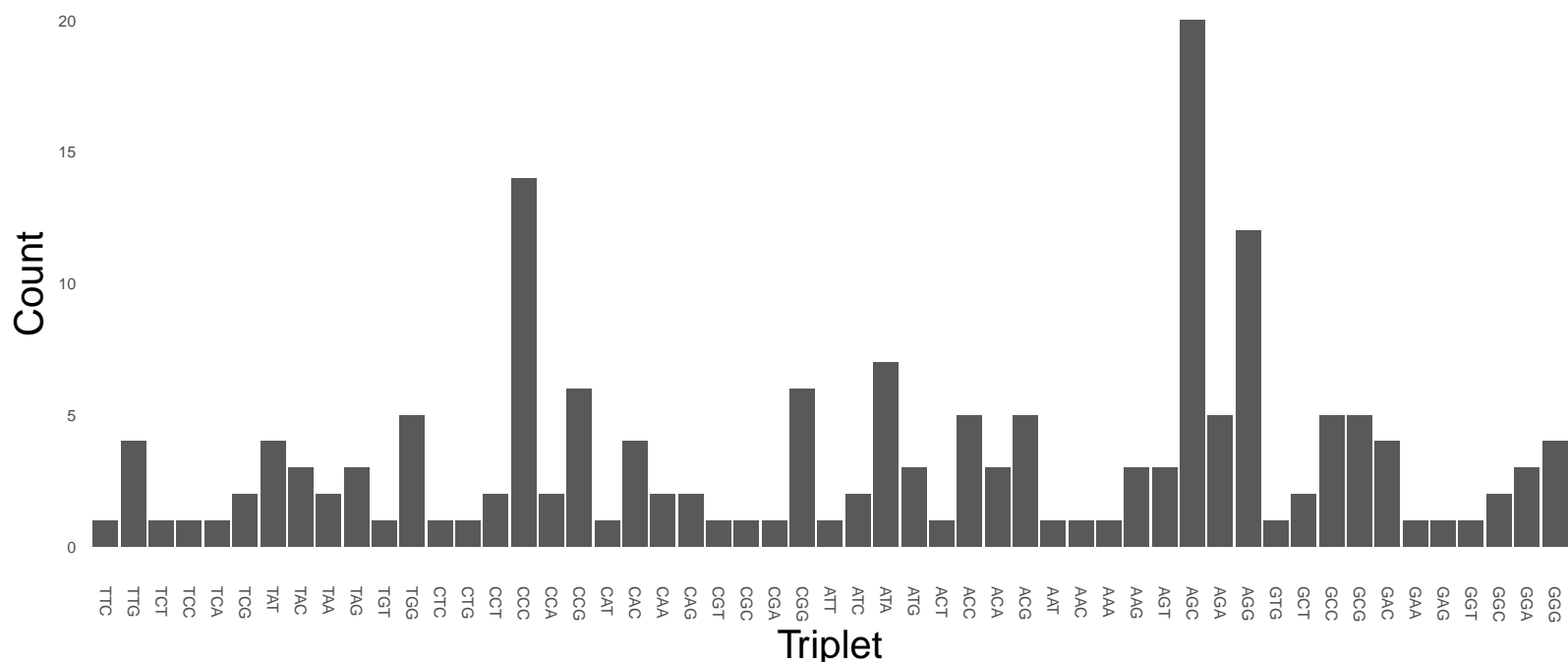
Gene TRBV7-7\*ap01\_C315T



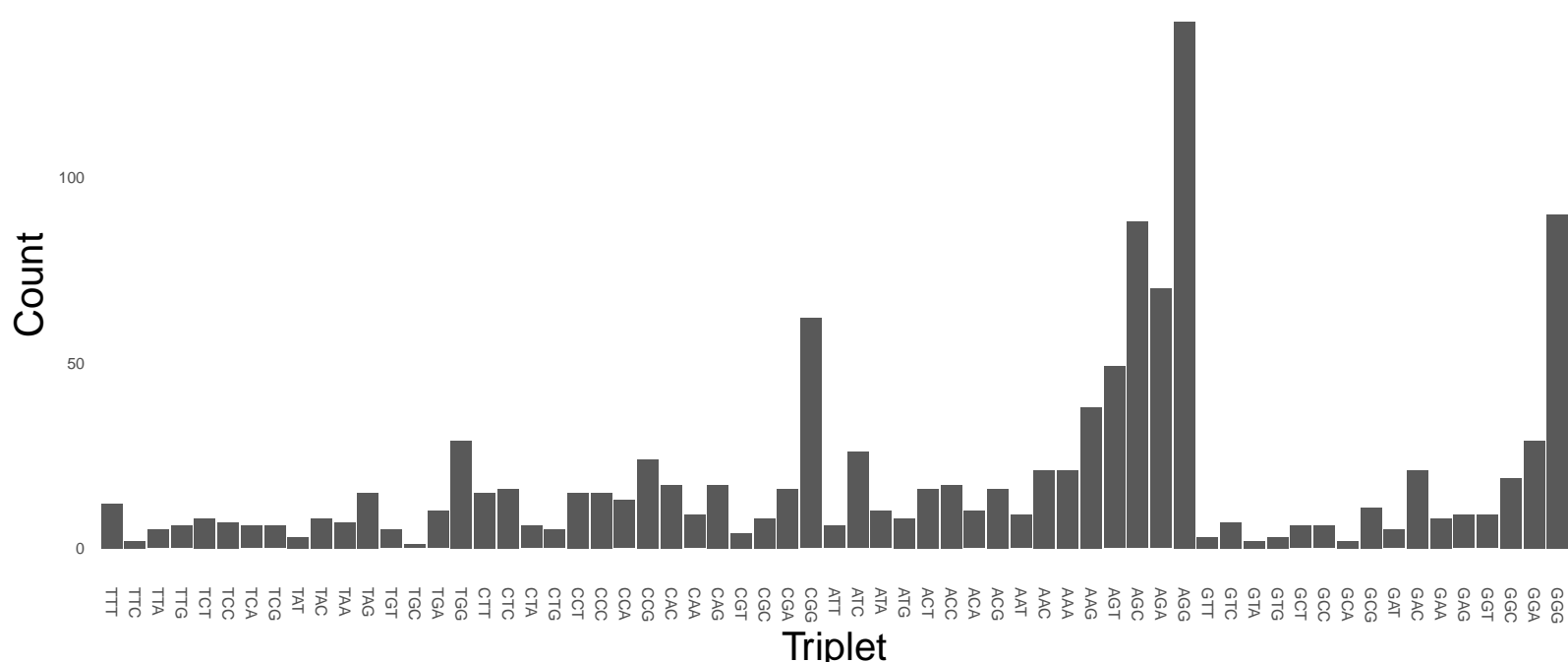
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

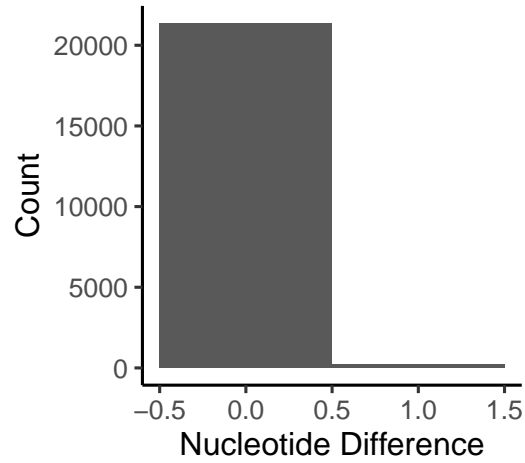


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



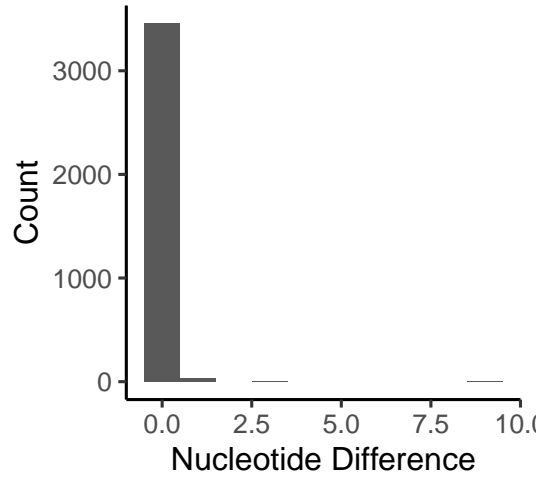
### TRBV20-1\*ap01

21580 sequences assigned  
21370 (99%) exact matches, in which:  
20872 unique CDR3  
13 unique J



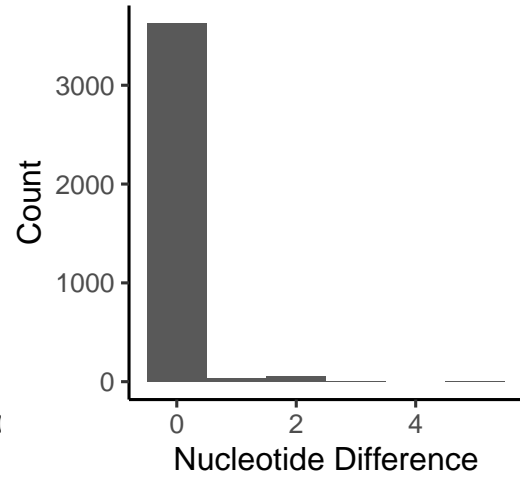
### TRBV10-2\*ap01

3497 sequences assigned  
3457 (98.9%) exact matches, in which:  
3341 unique CDR3  
13 unique J



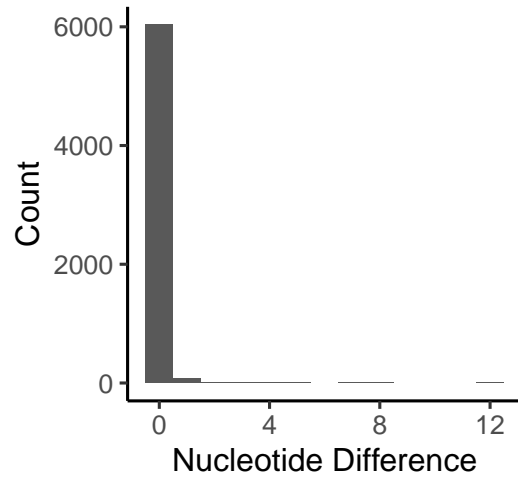
### TRBV13\*ap01

3722 sequences assigned  
3626 (97.4%) exact matches, in which:  
3490 unique CDR3  
13 unique J



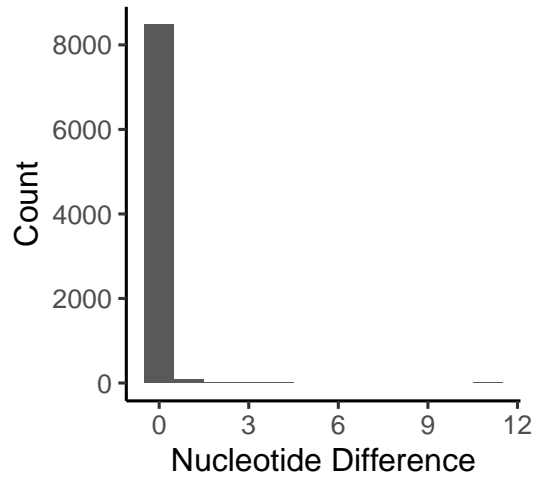
### TRBV10-1\*ap01

6120 sequences assigned  
6035 (98.6%) exact matches, in which:  
5841 unique CDR3  
13 unique J



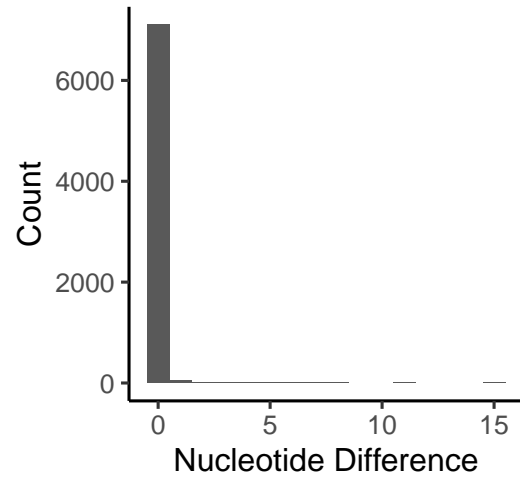
### TRBV10-3\*ap01

8576 sequences assigned  
8477 (98.8%) exact matches, in which:  
8240 unique CDR3  
13 unique J



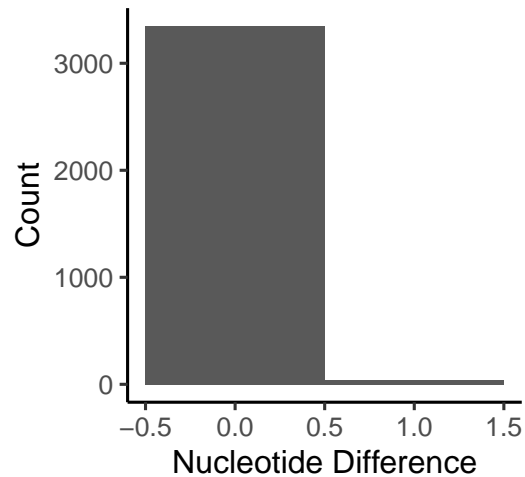
### TRBV14\*ap01

7175 sequences assigned  
7104 (99%) exact matches, in which:  
6951 unique CDR3  
13 unique J



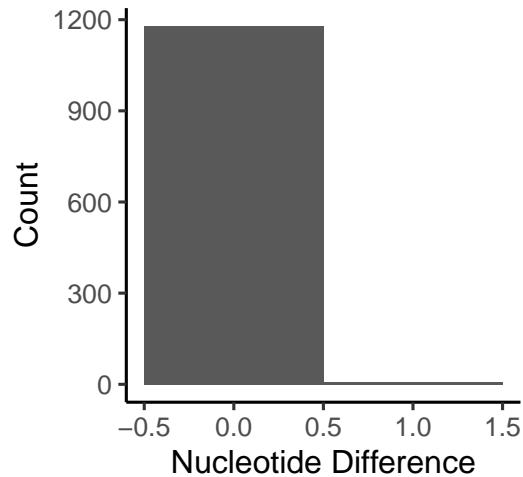
### TRBV20-1\*ap02

3387 sequences assigned  
3348 (98.8%) exact matches, in which:  
3283 unique CDR3  
13 unique J



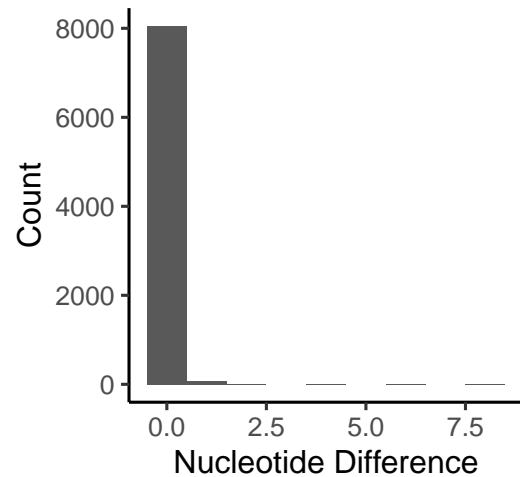
### TRBV1\*ap01

1187 sequences assigned  
1179 (99.3%) exact matches, in which:  
1139 unique CDR3  
13 unique J



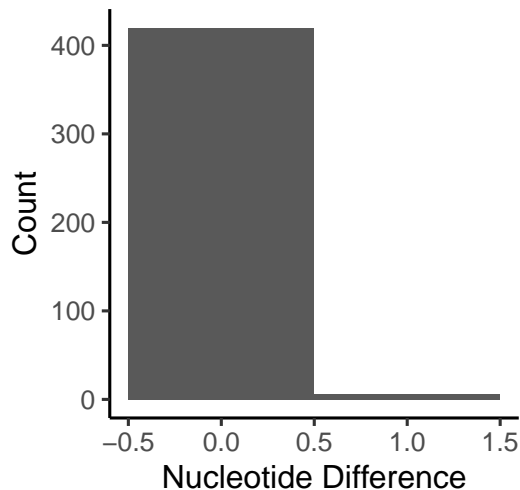
### TRBV15\*ap02

8132 sequences assigned  
8051 (99%) exact matches, in which:  
7793 unique CDR3  
13 unique J



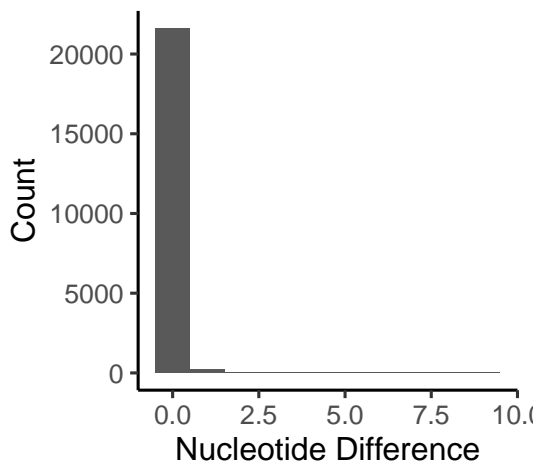
### TRBV16\*ap01

426 sequences assigned  
420 (98.6%) exact matches, in which:  
416 unique CDR3  
13 unique J



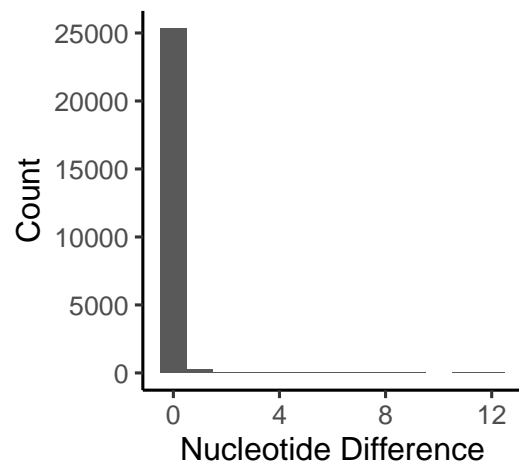
### TRBV19\*ap01

21860 sequences assigned  
21623 (98.9%) exact matches, in which:  
21260 unique CDR3  
13 unique J



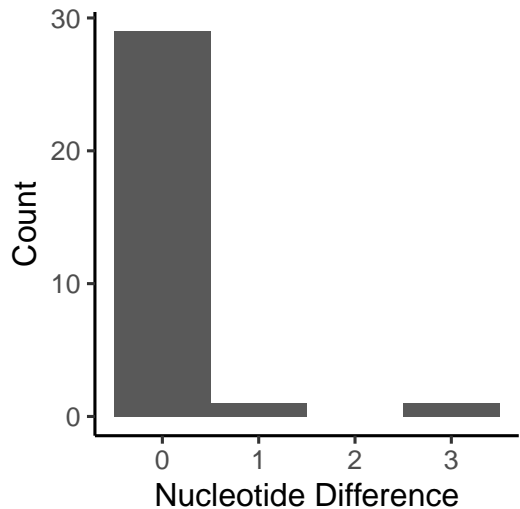
### TRBV27\*ap01

25664 sequences assigned  
25356 (98.8%) exact matches, in which:  
24539 unique CDR3  
13 unique J



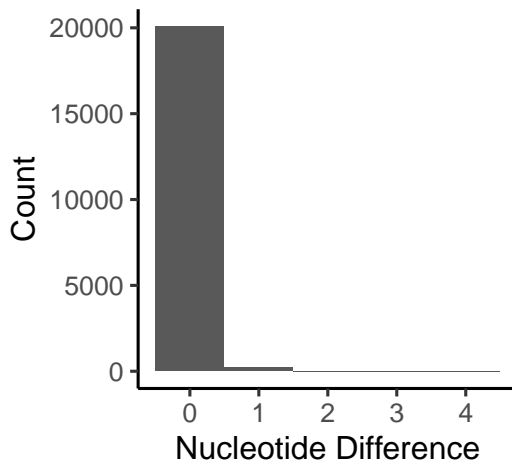
### TRBV17\*ap01

31 sequences assigned  
29 (93.5%) exact matches, in which:  
29 unique CDR3  
9 unique J



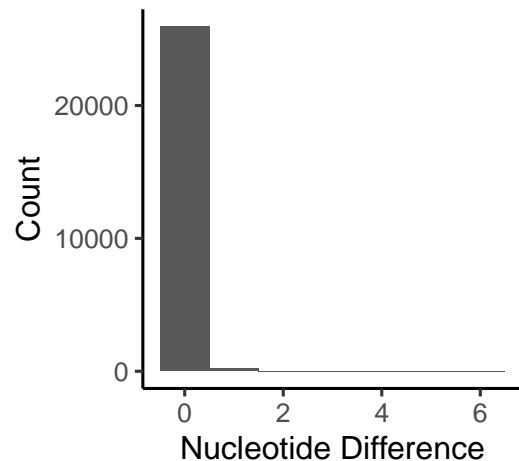
### TRBV2\*ap01

20299 sequences assigned  
20078 (98.9%) exact matches, in which:  
19421 unique CDR3  
13 unique J



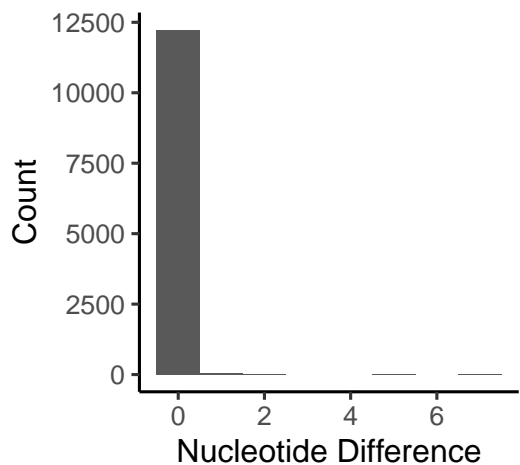
### TRBV28\*ap01

26173 sequences assigned  
25946 (99.1%) exact matches, in which:  
25371 unique CDR3  
13 unique J



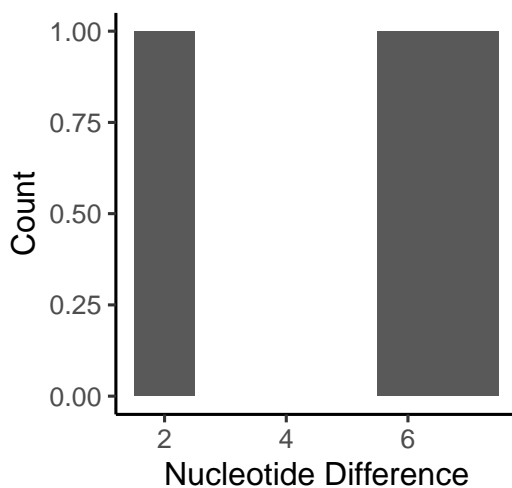
### TRBV18\*ap01

12305 sequences assigned  
12234 (99.4%) exact matches, in which:  
12019 unique CDR3  
13 unique J



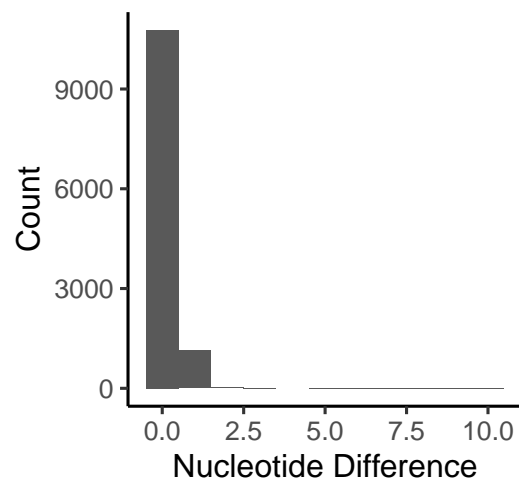
### TRBV26\*ap01

3 sequences assigned  
No exact matches.



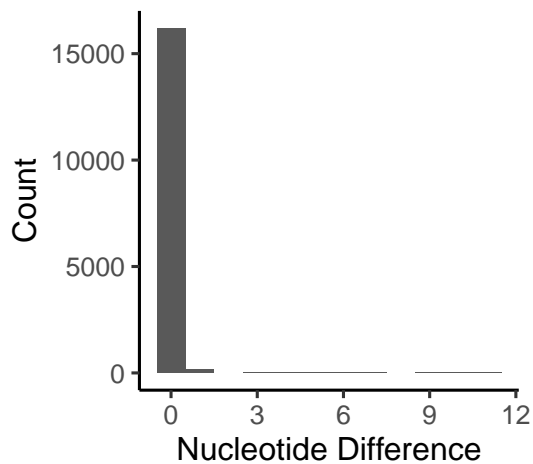
### TRBV30\*ap01

11949 sequences assigned  
10773 (90.2%) exact matches, in which:  
10483 unique CDR3  
13 unique J



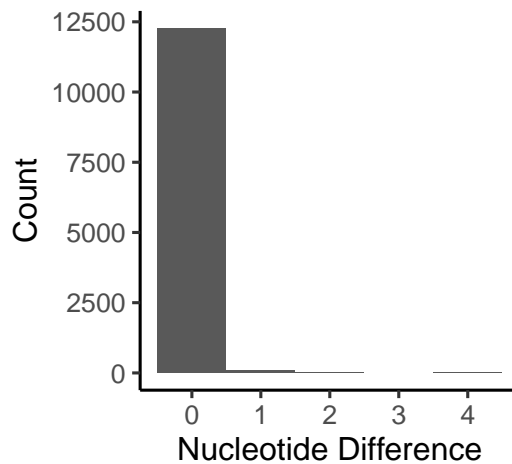
### TRBV9\*ap01

16358 sequences assigned  
16198 (99%) exact matches, in which:  
15862 unique CDR3  
13 unique J



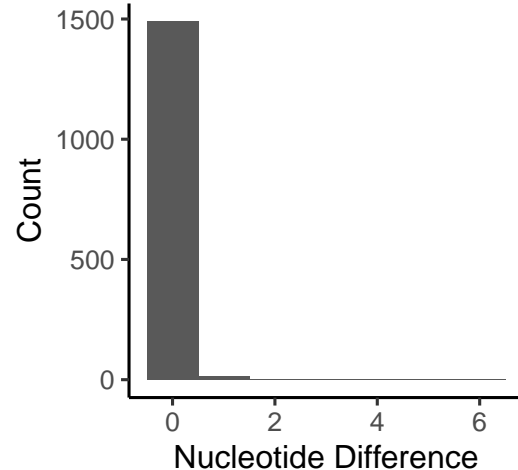
### TRBV11-2\*ap01

12358 sequences assigned  
12274 (99.3%) exact matches, in which:  
12021 unique CDR3  
13 unique J



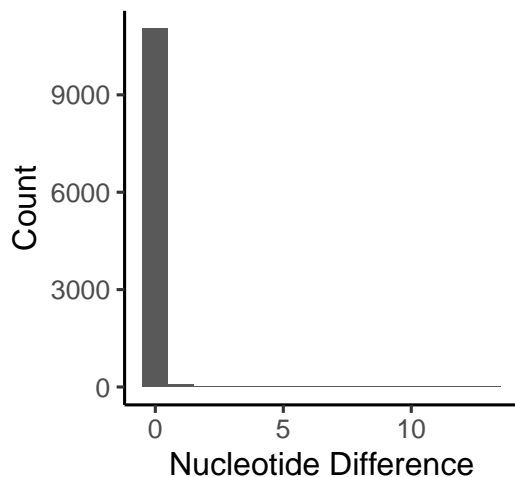
### TRBV12-2\*ap01

1515 sequences assigned  
1490 (98.3%) exact matches, in which:  
1455 unique CDR3  
13 unique J



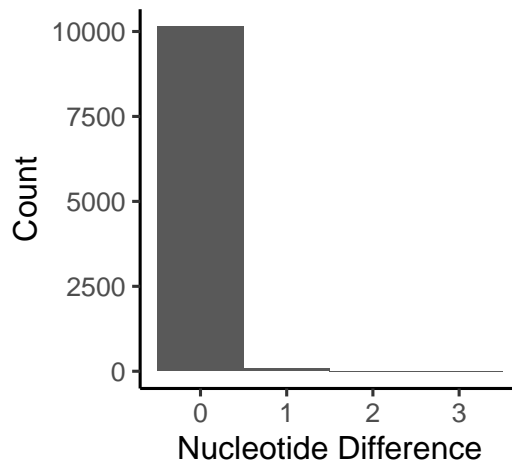
### TRBV21-1\*ap01

11186 sequences assigned  
11036 (98.7%) exact matches, in which:  
10794 unique CDR3  
14 unique J



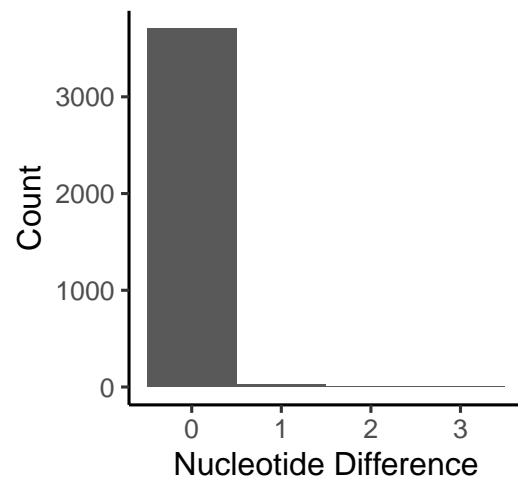
### TRBV11-3\*ap01

10233 sequences assigned  
10148 (99.2%) exact matches, in which:  
9939 unique CDR3  
14 unique J



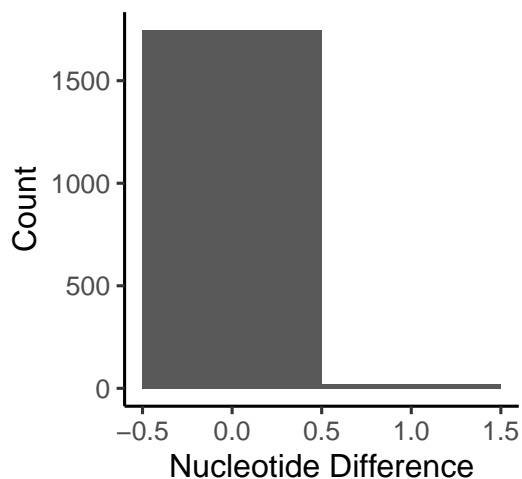
### TRBV12-5\*ap01

3730 sequences assigned  
3704 (99.3%) exact matches, in which:  
3614 unique CDR3  
13 unique J



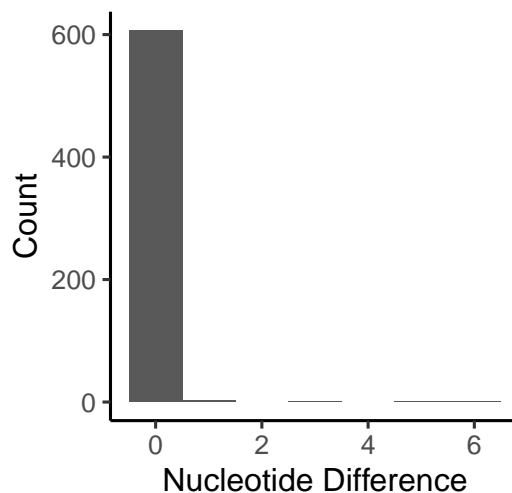
### TRBV11-1\*ap01

1767 sequences assigned  
1747 (98.9%) exact matches, in which:  
1698 unique CDR3  
13 unique J



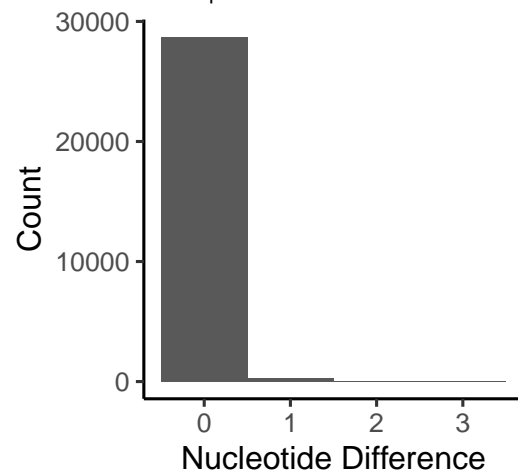
### TRBV12-1\*ap01

613 sequences assigned  
607 (99%) exact matches, in which:  
589 unique CDR3  
13 unique J



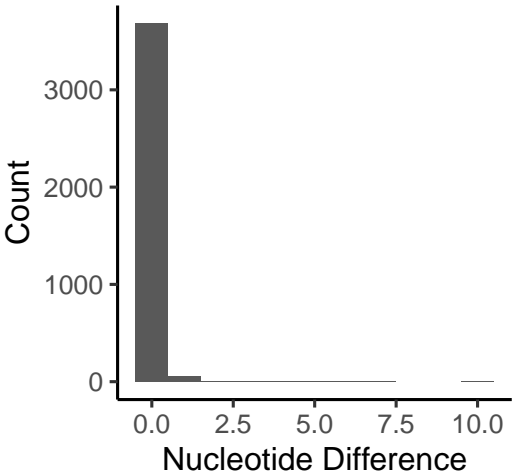
### TRBV12-34\*ap01

29024 sequences assigned  
28721 (99%) exact matches, in which:  
28007 unique CDR3  
13 unique J



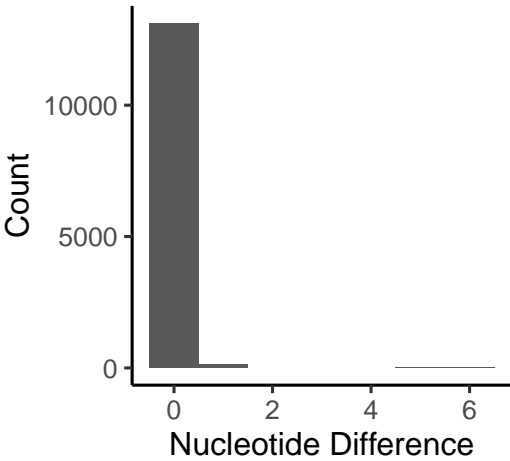
TRBV23-1\*ap01

3756 sequences assigned  
3683 (98.1%) exact matches, in which:  
3577 unique CDR3  
13 unique J



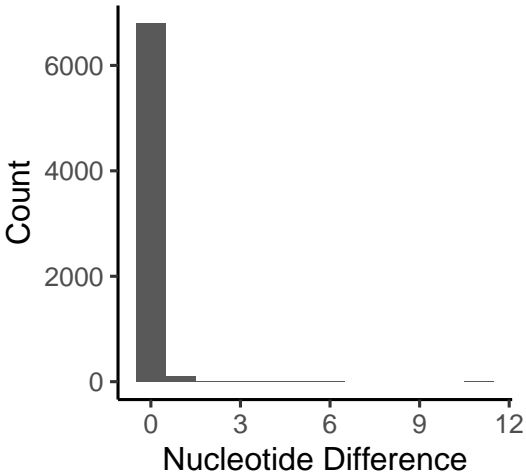
TRBV4-1\*ap01

13254 sequences assigned  
13122 (99%) exact matches, in which:  
12639 unique CDR3  
13 unique J



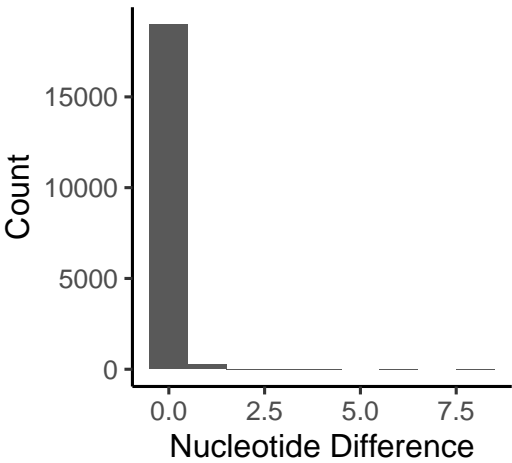
TRBV25-1\*ap01

6908 sequences assigned  
6797 (98.4%) exact matches, in which:  
6575 unique CDR3  
13 unique J



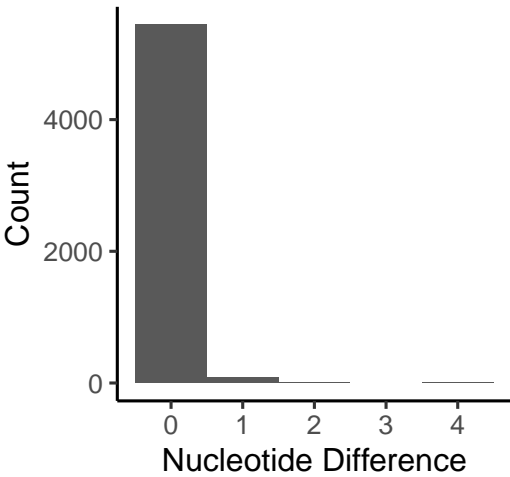
TRBV3-12\*ap01

19248 sequences assigned  
18987 (98.6%) exact matches, in which:  
18377 unique CDR3  
13 unique J



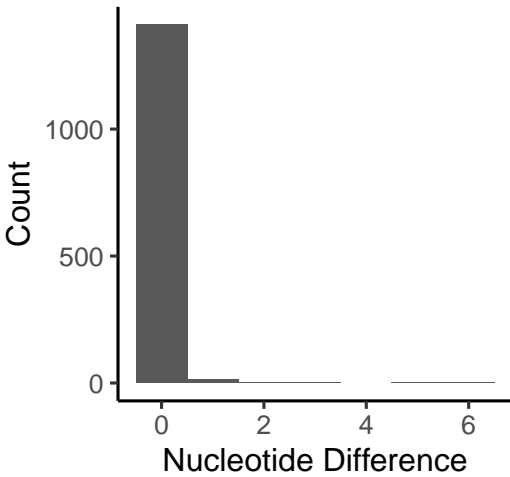
TRBV4-2\*ap01

5525 sequences assigned  
5441 (98.5%) exact matches, in which:  
5253 unique CDR3  
13 unique J



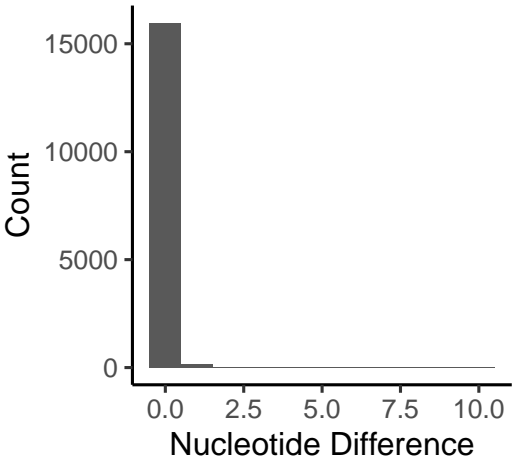
TRBV5-3\*ap01

1431 sequences assigned  
1411 (98.6%) exact matches, in which:  
1391 unique CDR3  
13 unique J



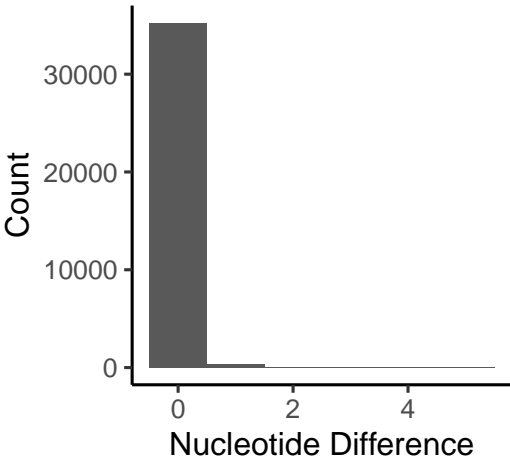
TRBV24-1\*ap01

16183 sequences assigned  
15971 (98.7%) exact matches, in which:  
15566 unique CDR3  
13 unique J



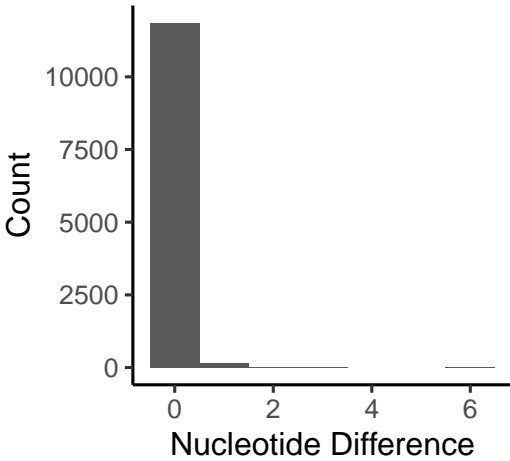
TRBV5-1\*ap01

35641 sequences assigned  
35254 (98.9%) exact matches, in which:  
34192 unique CDR3  
13 unique J



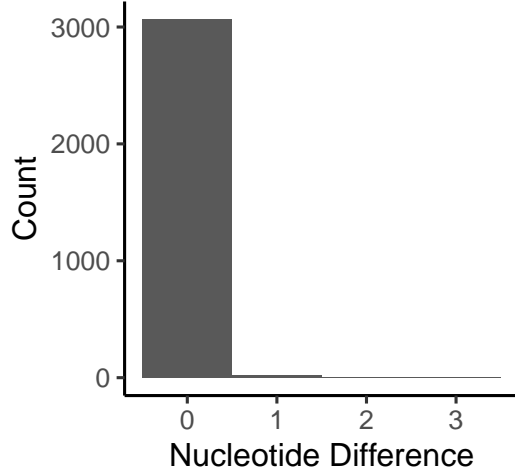
TRBV5-4\*ap01

12020 sequences assigned  
11858 (98.7%) exact matches, in which:  
11482 unique CDR3  
13 unique J



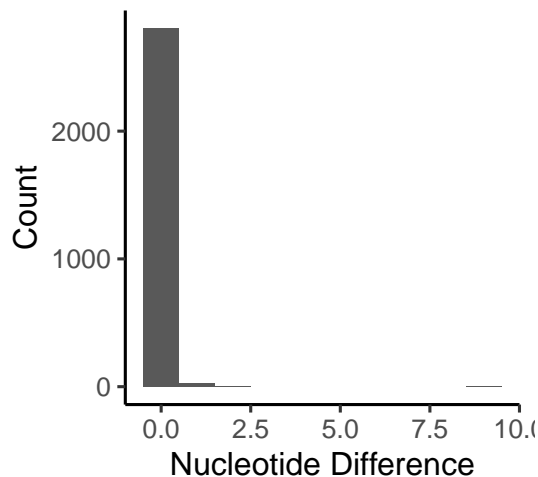
### TRBV5-5\*ap01

3093 sequences assigned  
3065 (99.1%) exact matches, in which:  
3037 unique CDR3  
13 unique J



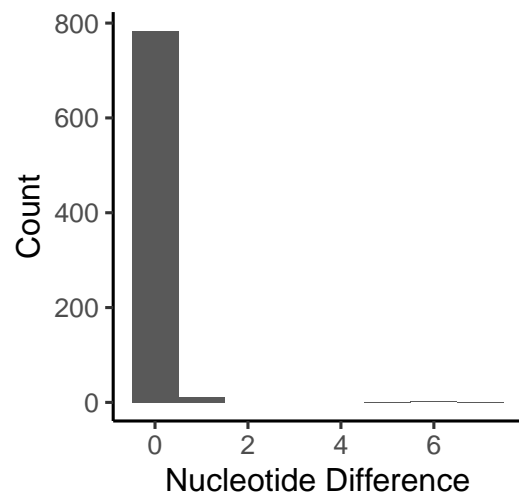
### TRBV5-8\*ap01

2834 sequences assigned  
2804 (98.9%) exact matches, in which:  
2749 unique CDR3  
13 unique J



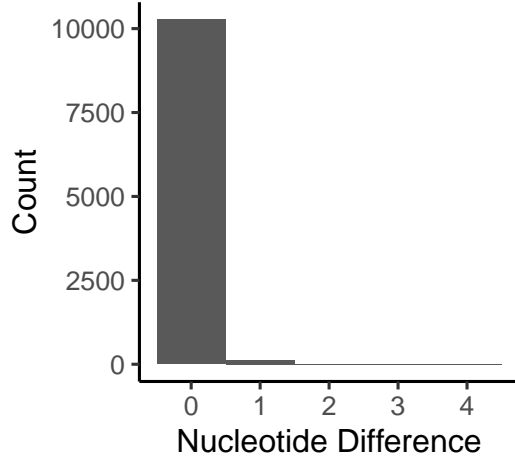
### TRBV6-7\*ap01

799 sequences assigned  
784 (98.1%) exact matches, in which:  
755 unique CDR3  
13 unique J



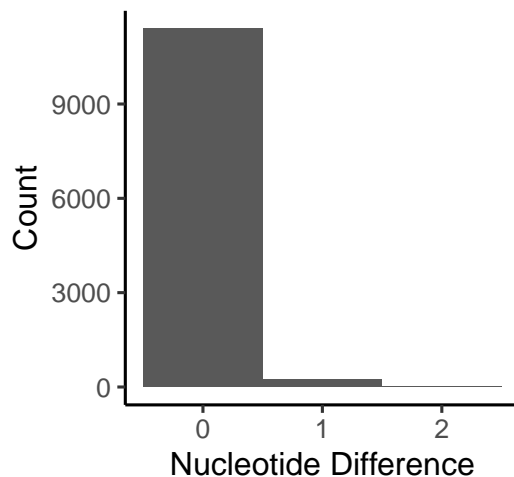
### TRBV5-6\*ap01

10404 sequences assigned  
10272 (98.7%) exact matches, in which:  
9891 unique CDR3  
13 unique J



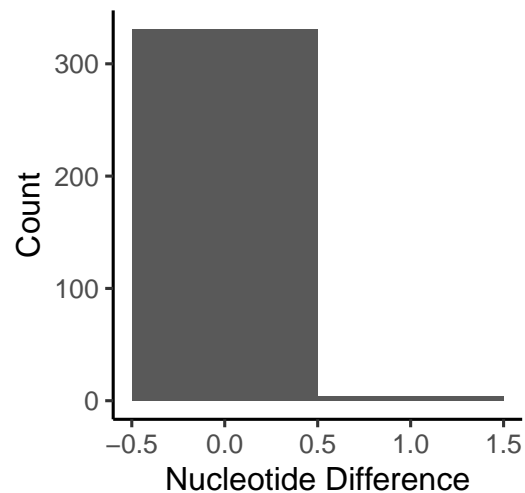
### TRBV6-1\*ap01

11647 sequences assigned  
11394 (97.8%) exact matches, in which:  
11020 unique CDR3  
13 unique J



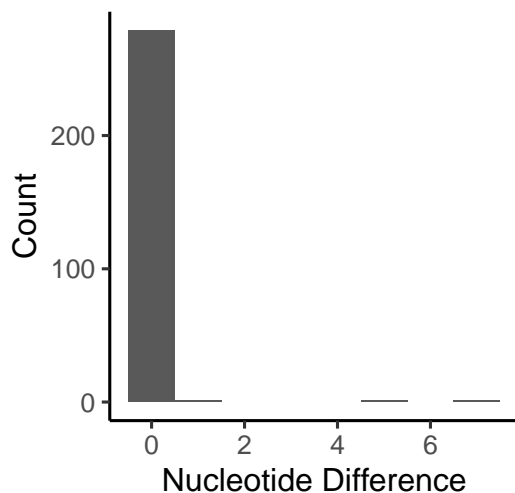
### TRBV6-8\*ap01

335 sequences assigned  
331 (98.8%) exact matches, in which:  
318 unique CDR3  
13 unique J



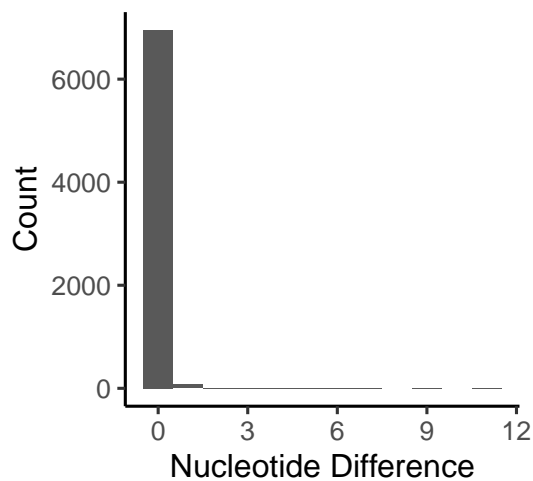
### TRBV5-7\*ap01

282 sequences assigned  
279 (98.9%) exact matches, in which:  
267 unique CDR3  
13 unique J



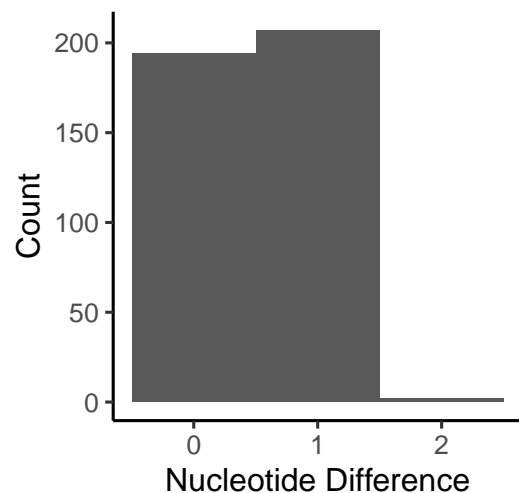
### TRBV6-4\*ap01

7043 sequences assigned  
6953 (98.7%) exact matches, in which:  
6802 unique CDR3  
13 unique J



### TRBV6-9\*ap01

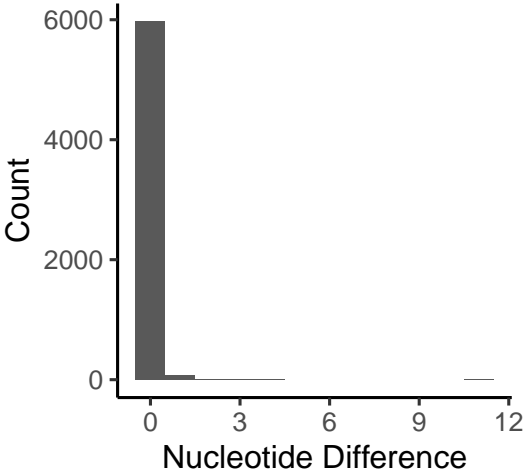
403 sequences assigned  
194 (48.1%) exact matches, in which:  
182 unique CDR3  
13 unique J





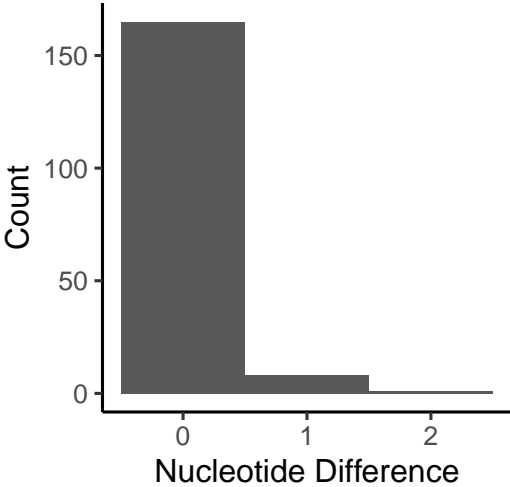
TRBV6-23\*ap01

6046 sequences assigned  
5972 (98.8%) exact matches, in which:  
5759 unique CDR3  
13 unique J



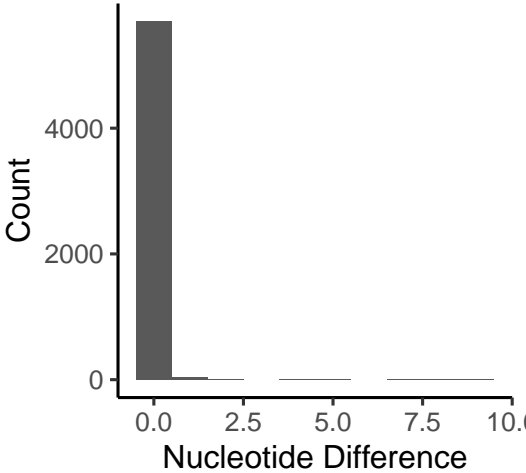
TRBV7-1\*ap01\_G291C\_

174 sequences assigned  
165 (94.8%) exact matches, in which:  
158 unique CDR3  
13 unique J



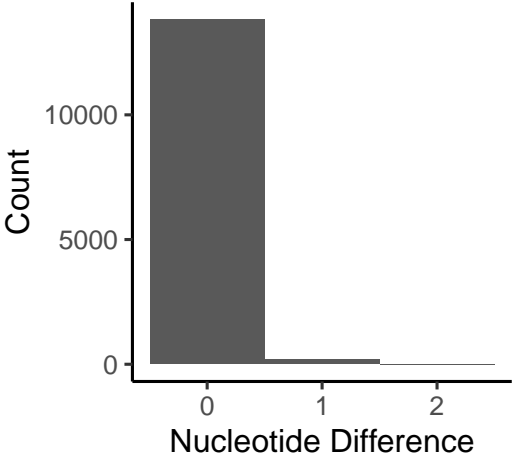
TRBV7-3\*ap01

5740 sequences assigned  
5698 (99.3%) exact matches, in which:  
5602 unique CDR3  
13 unique J



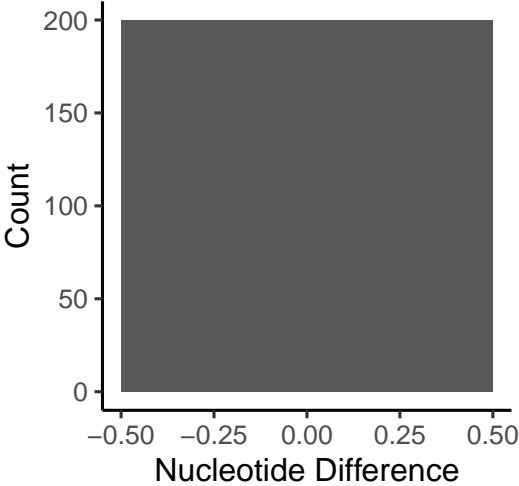
TRBV6-56\*ap01

14010 sequences assigned  
13823 (98.7%) exact matches, in which:  
13330 unique CDR3  
13 unique J



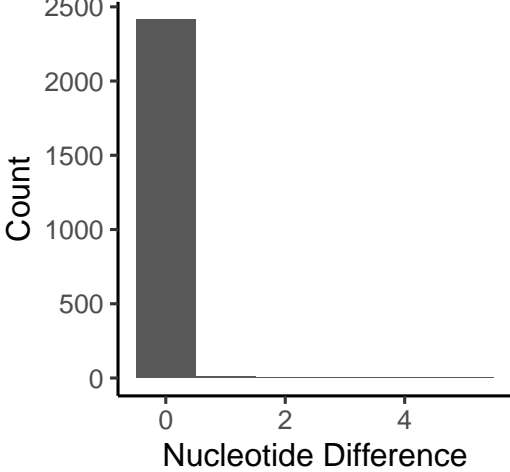
TRBV7-1\*ap01\_G291C\_

200 sequences assigned  
200 (100%) exact matches, in which:  
197 unique CDR3  
13 unique J



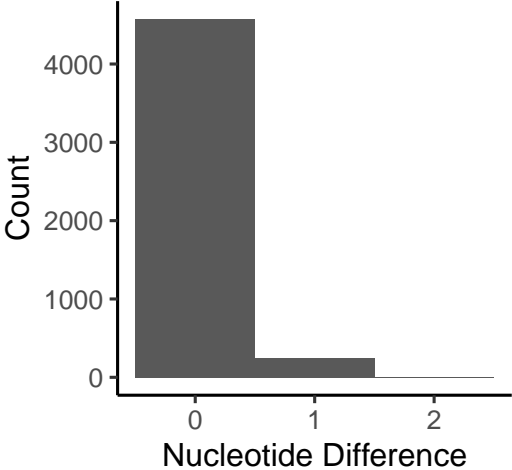
TRBV7-3\*ap03

2434 sequences assigned  
2413 (99.1%) exact matches, in which:  
2339 unique CDR3  
13 unique J



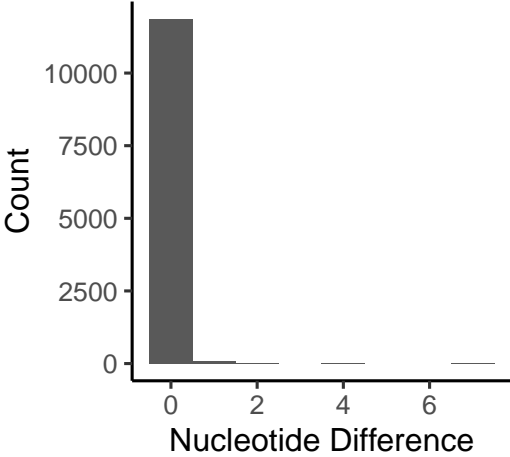
TRBV6-56\*ap02

4822 sequences assigned  
4574 (94.9%) exact matches, in which:  
4434 unique CDR3  
13 unique J



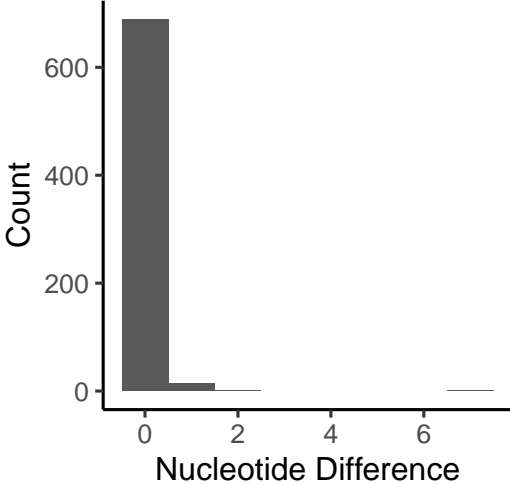
TRBV7-2\*ap01

11964 sequences assigned  
11868 (99.2%) exact matches, in which:  
11566 unique CDR3  
13 unique J



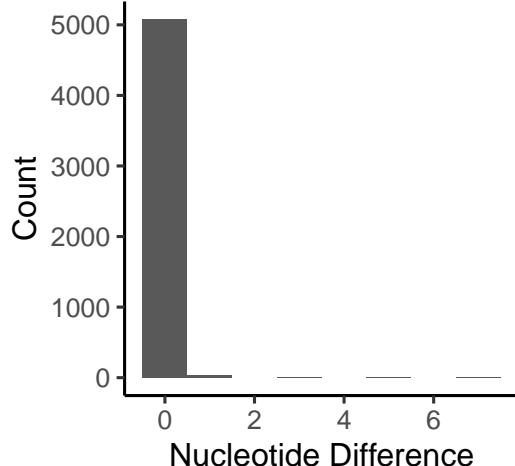
TRBV7-4\*ap01

705 sequences assigned  
689 (97.7%) exact matches, in which:  
668 unique CDR3  
13 unique J



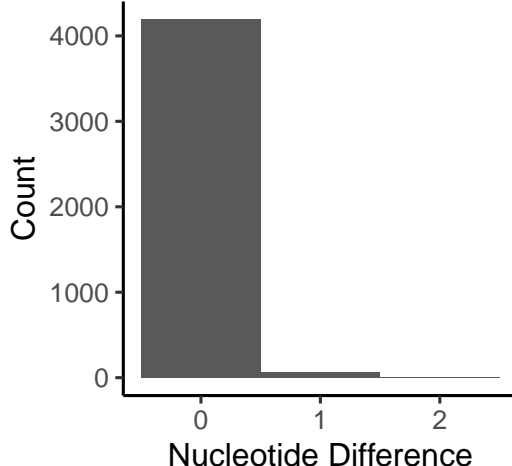
### TRBV7-6\*ap01

5122 sequences assigned  
5077 (99.1%) exact matches, in which:  
4938 unique CDR3  
13 unique J



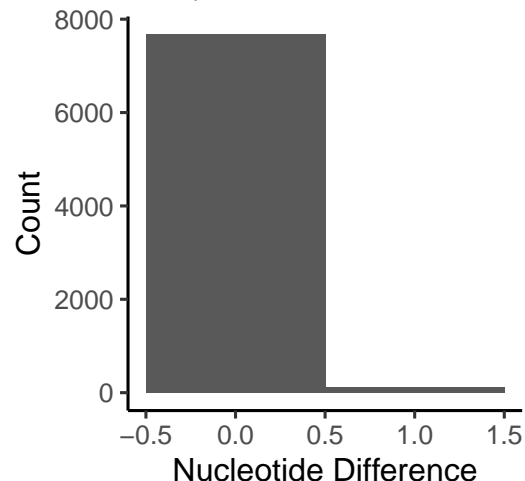
### TRBV7-8\*ap01

4256 sequences assigned  
4193 (98.5%) exact matches, in which:  
4085 unique CDR3  
13 unique J



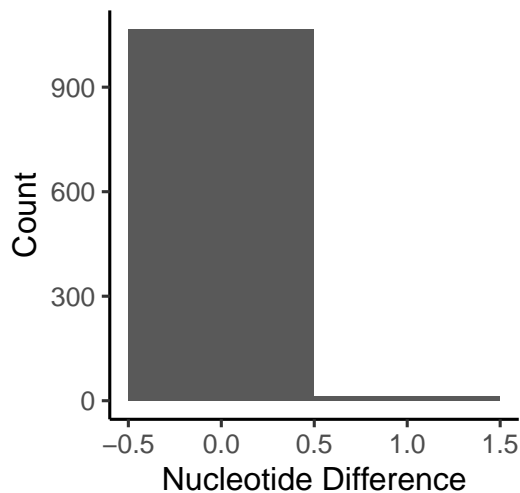
### TRBV29-1\*ap01

7785 sequences assigned  
7674 (98.6%) exact matches, in which:  
7419 unique CDR3  
13 unique J



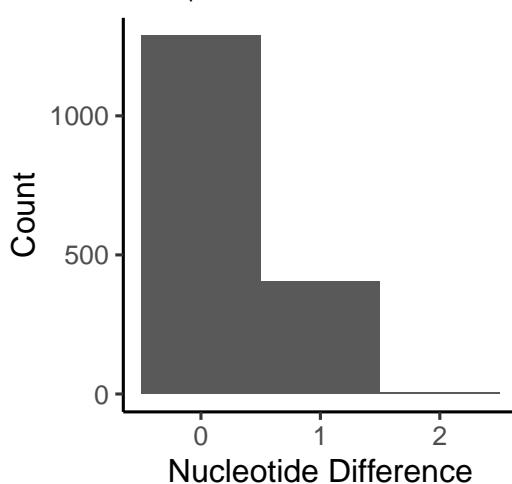
### TRBV7-7\*ap01

1079 sequences assigned  
1067 (98.9%) exact matches, in which:  
1043 unique CDR3  
13 unique J



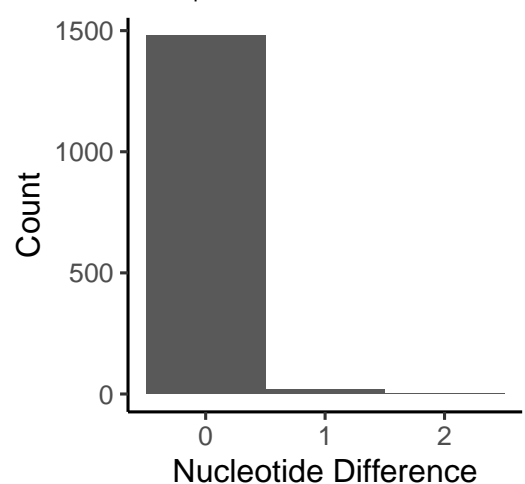
### TRBV7-8\*ap03

1696 sequences assigned  
1288 (75.9%) exact matches, in which:  
1250 unique CDR3  
13 unique J



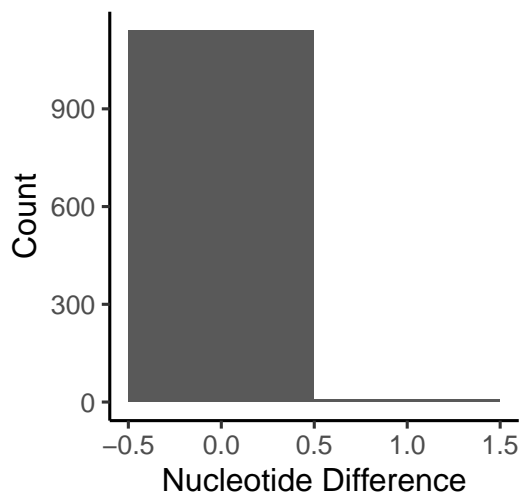
### TRBV29-1\*ap02

1498 sequences assigned  
1479 (98.7%) exact matches, in which:  
1417 unique CDR3  
13 unique J



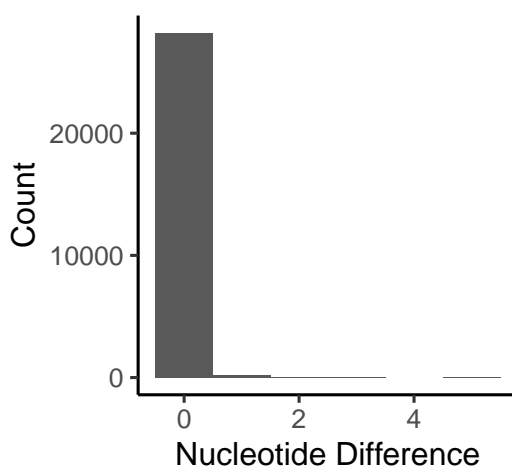
### TRBV7-7\*ap01\_C315T

1149 sequences assigned  
1141 (99.3%) exact matches, in which:  
1106 unique CDR3  
13 unique J

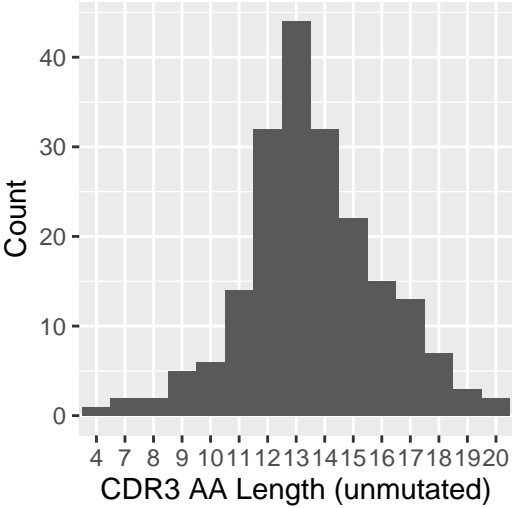


### TRBV7-9\*ap01

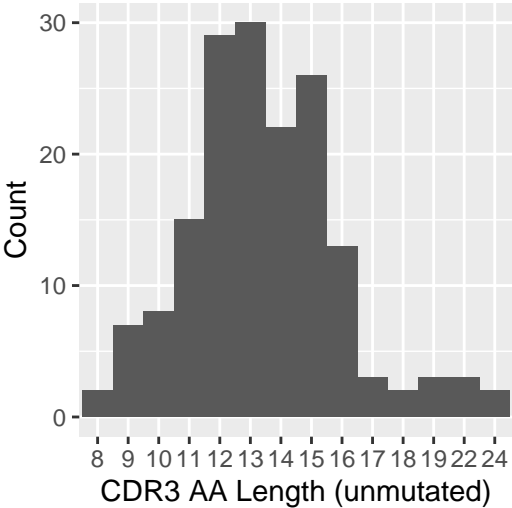
28409 sequences assigned  
28219 (99.3%) exact matches, in which:  
27713 unique CDR3  
13 unique J



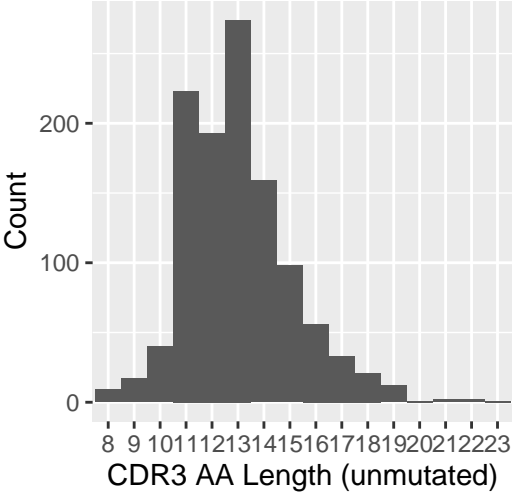
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]