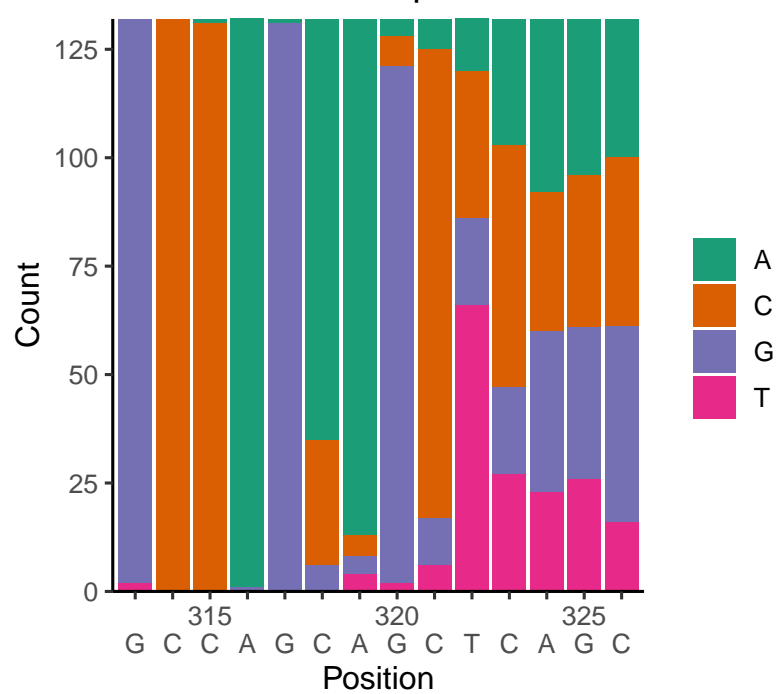
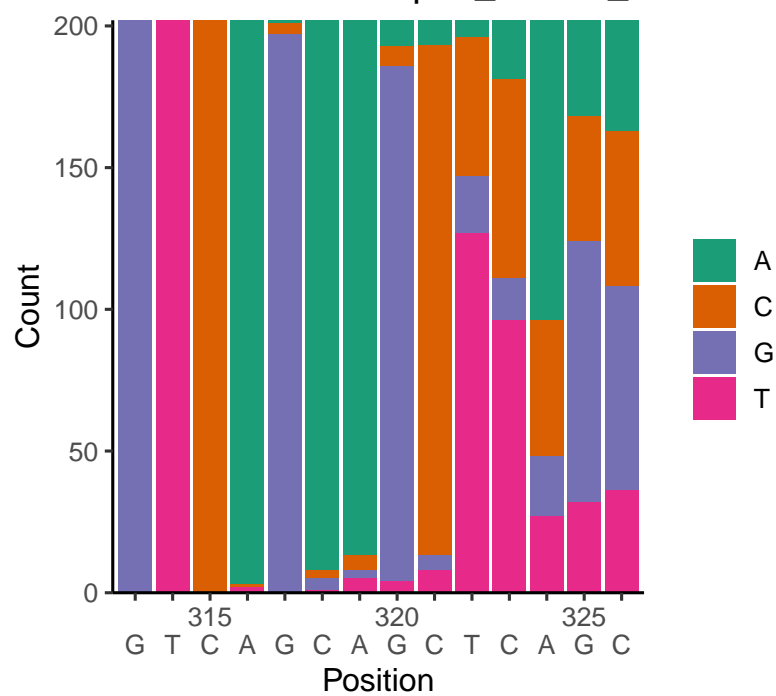


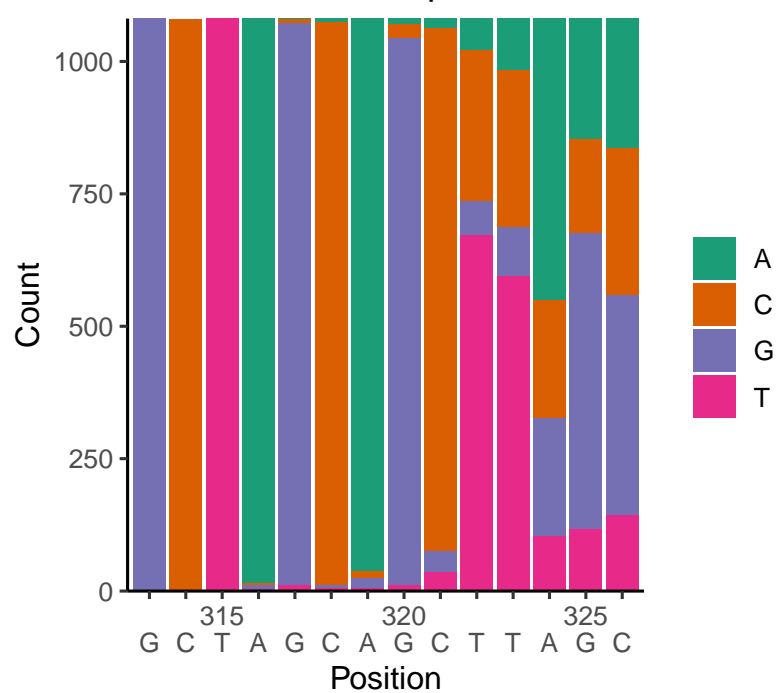
Gene TRBV7-1\*ap01\_T296C



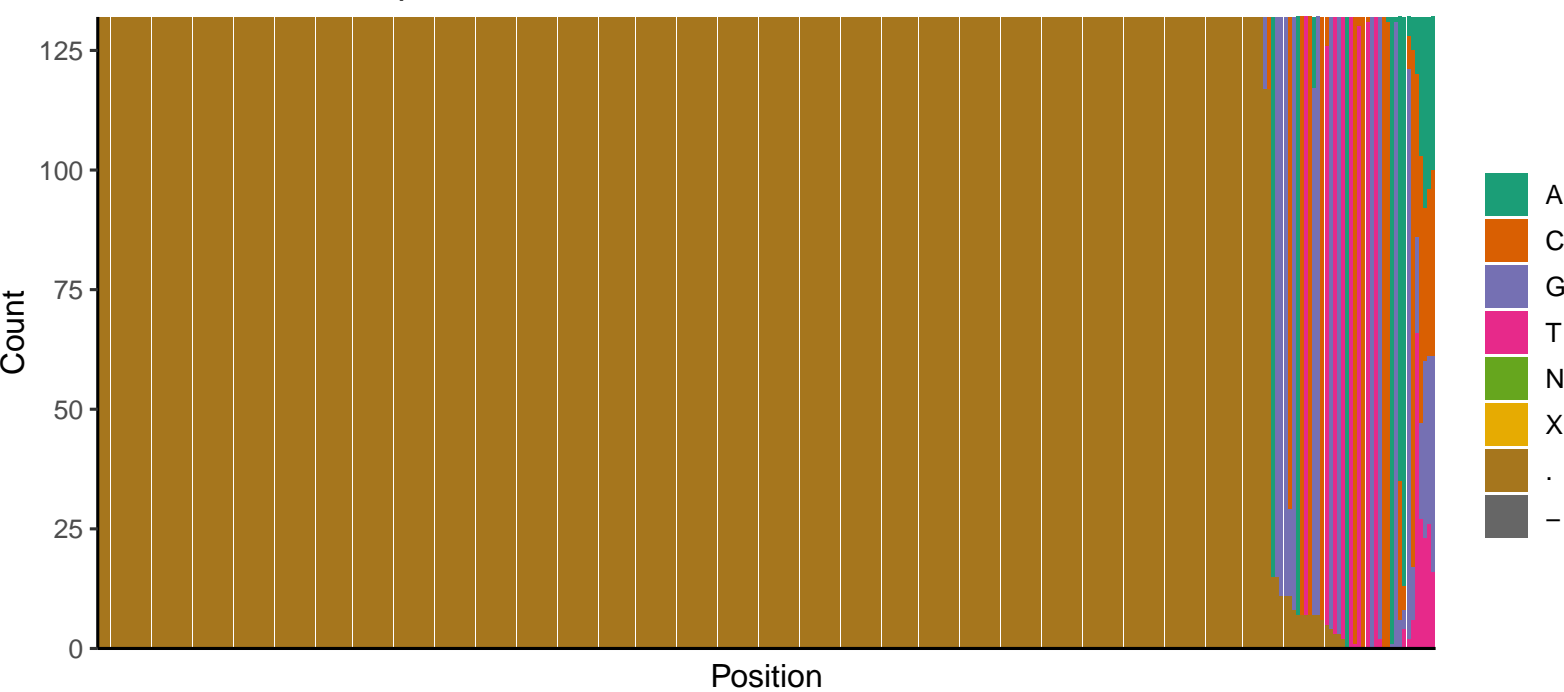
Gene TRBV7-1\*ap01\_T296C\_C314T



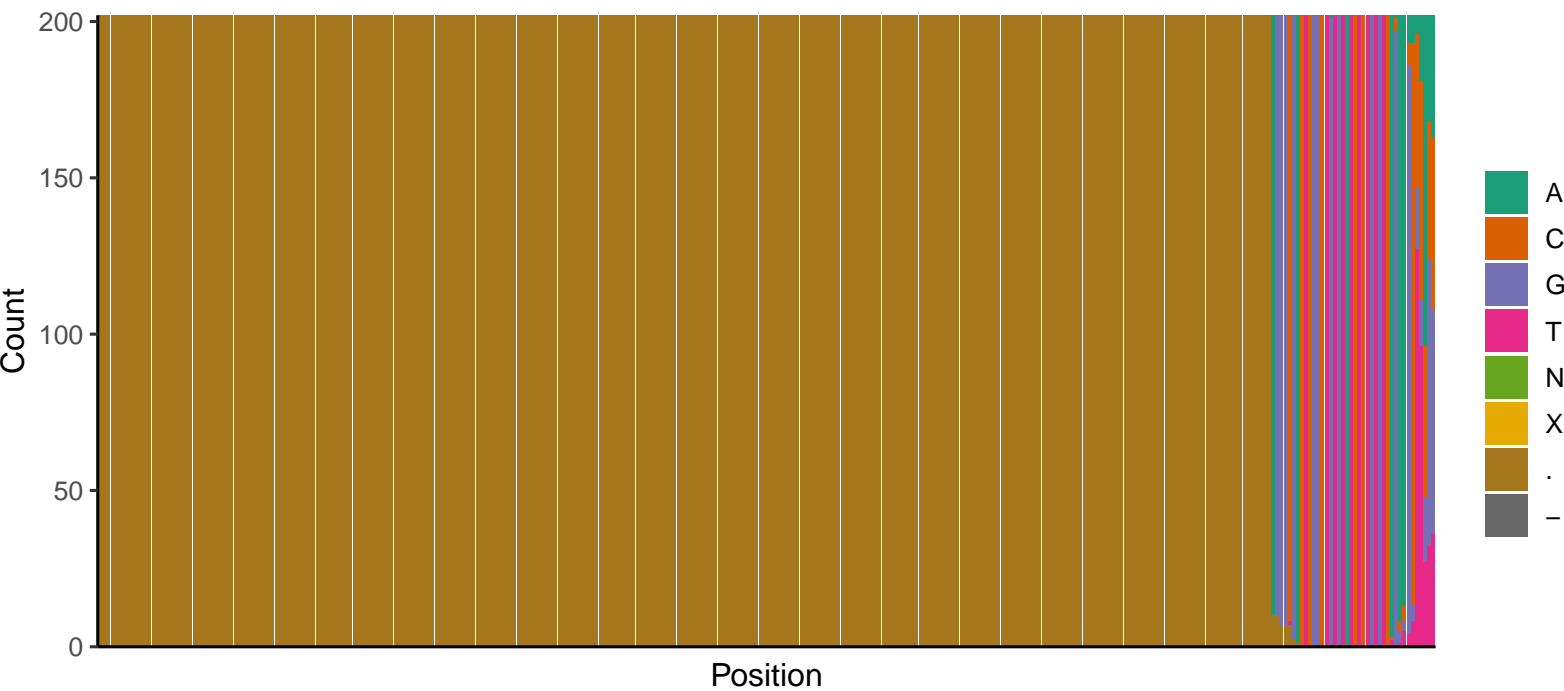
Gene TRBV7-7\*ap01\_C315T



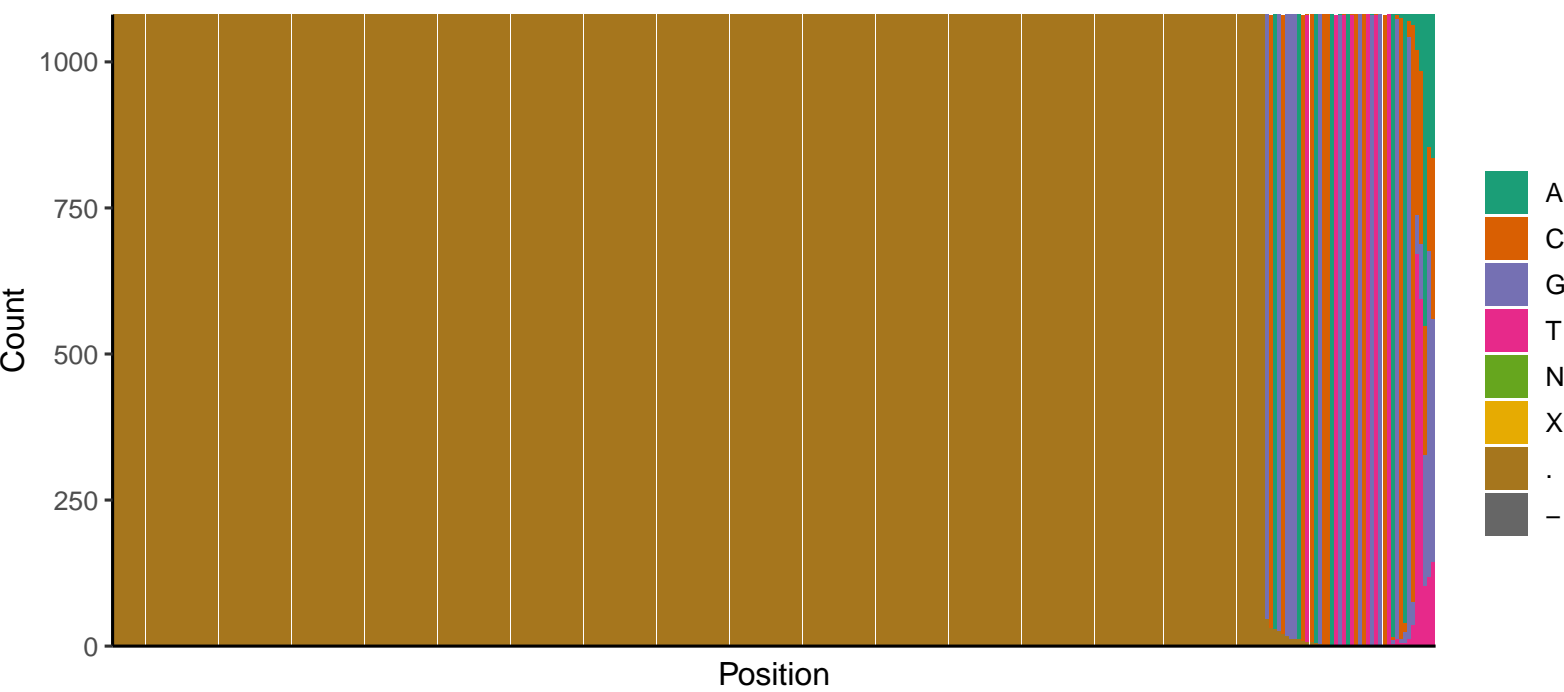
Gene TRBV7-1\*ap01\_T296C



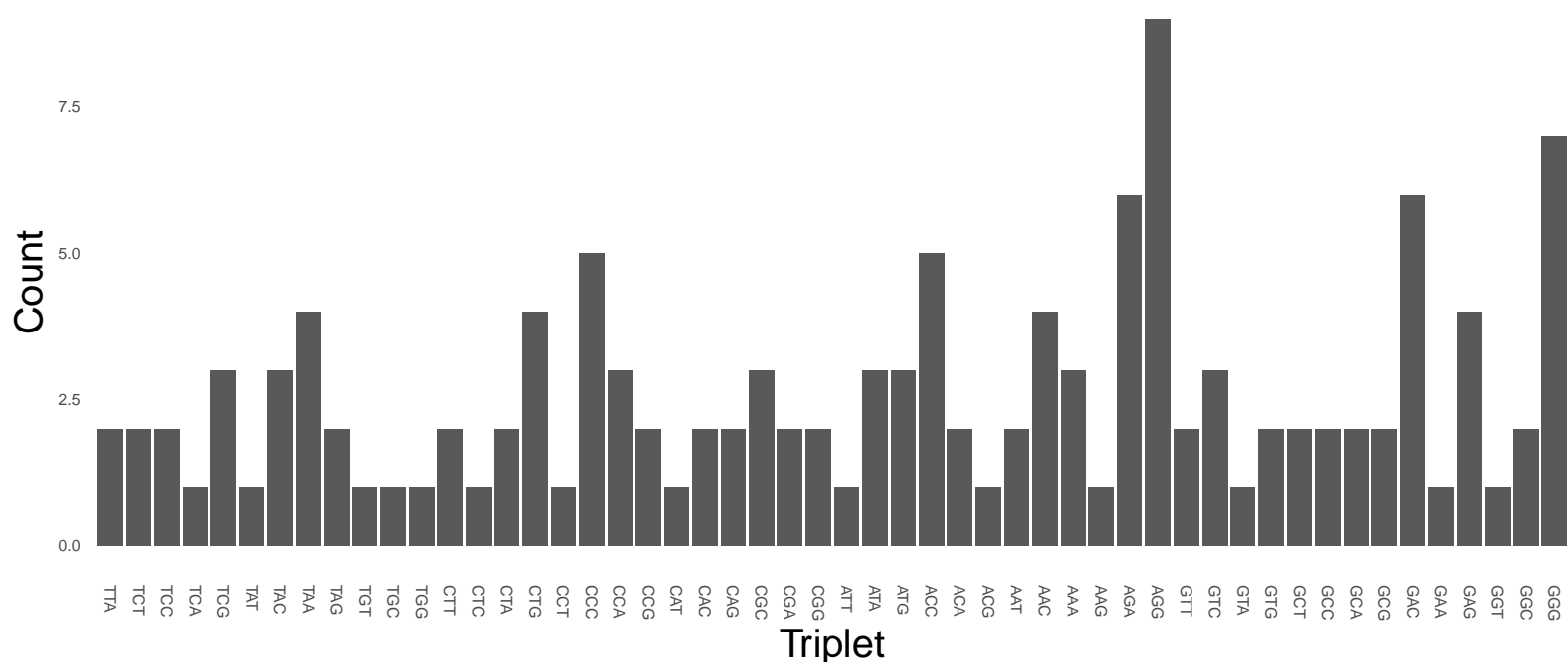
Gene TRBV7-1\*ap01\_T296C\_C314T



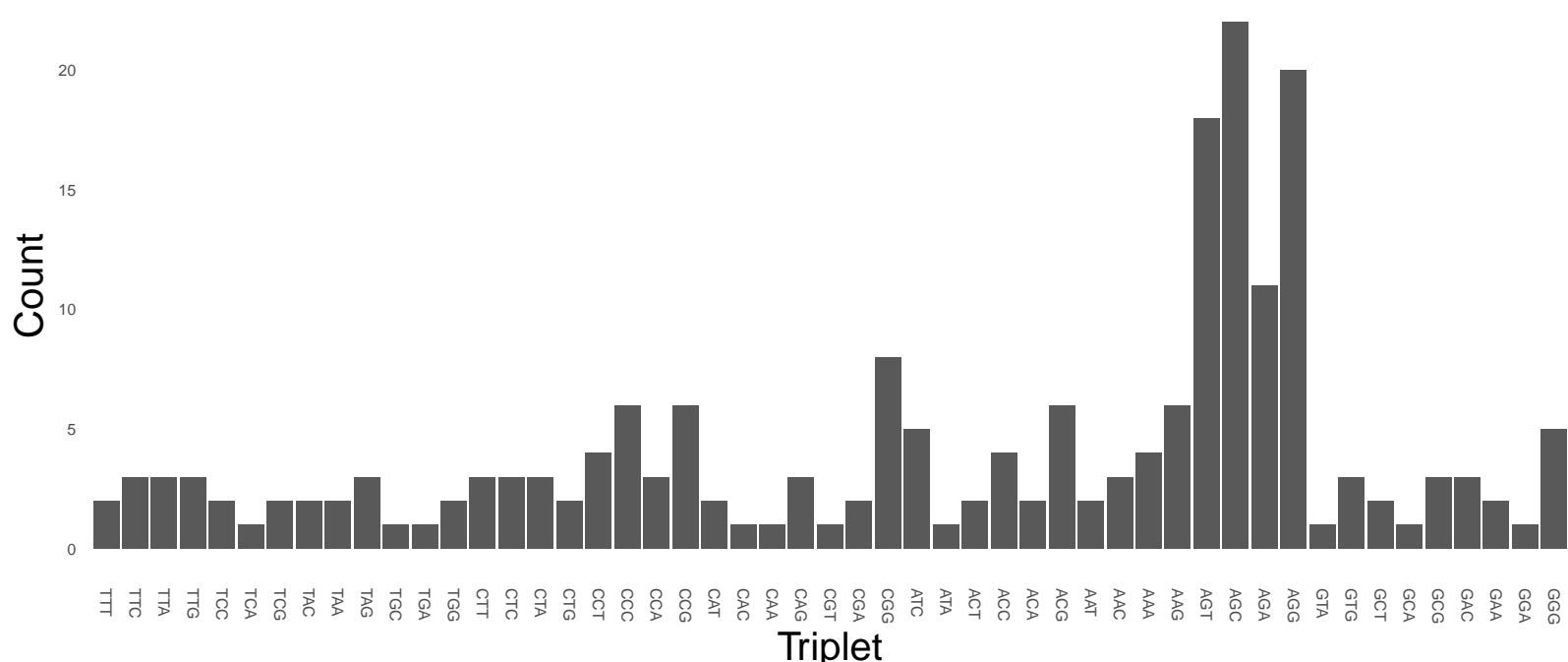
Gene TRBV7-7\*ap01\_C315T



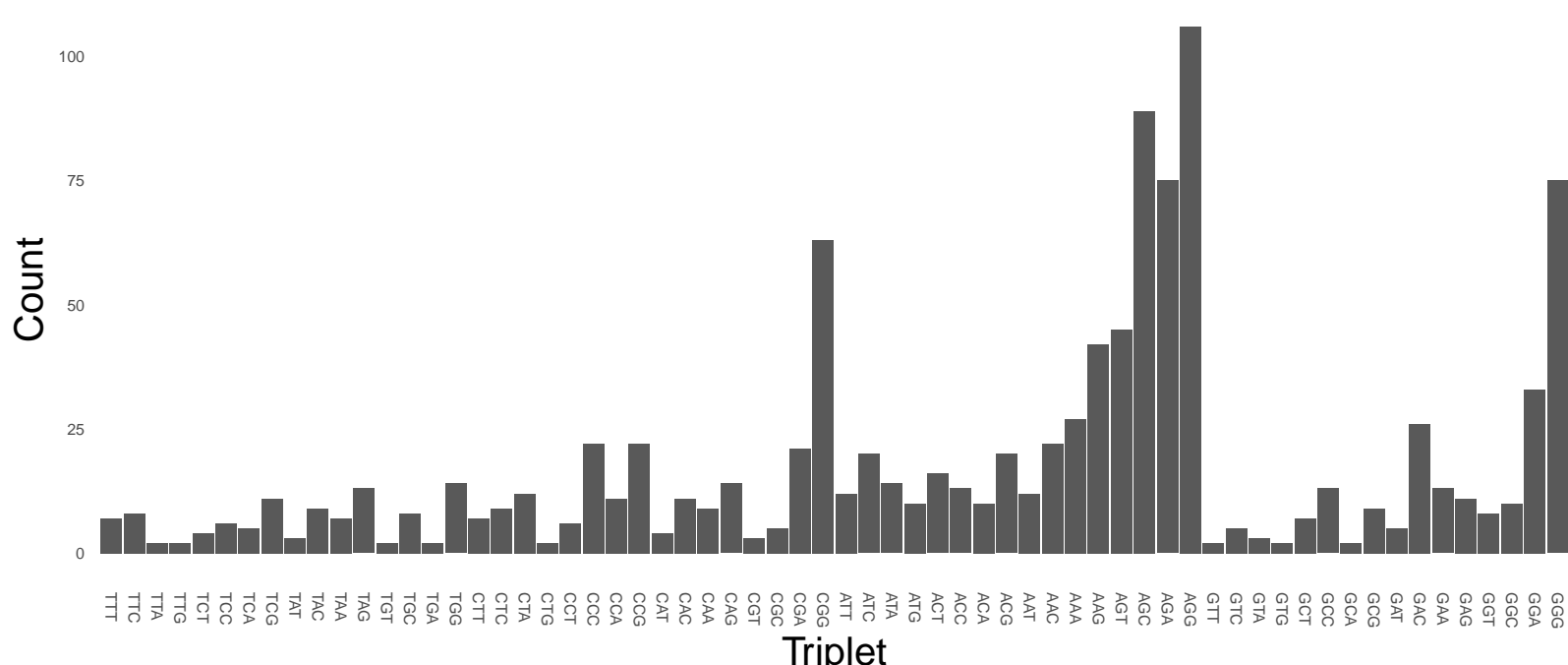
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



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

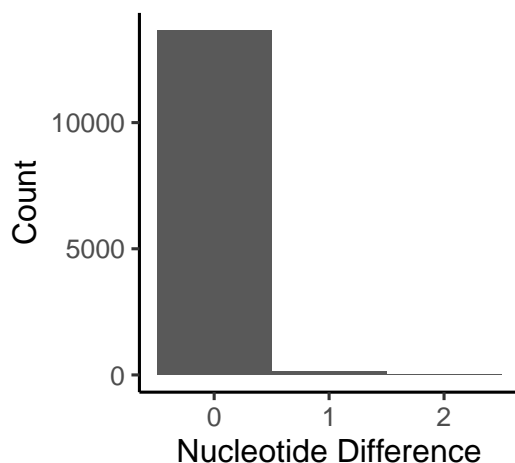


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



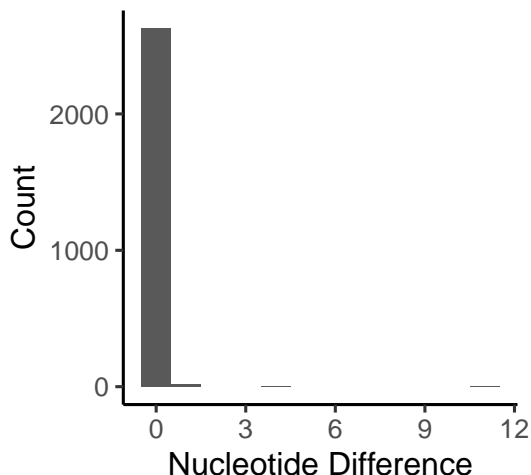
### TRBV20-1\*ap01

13808 sequences assigned  
13665 (99%) exact matches, in which:  
13511 unique CDR3  
13 unique J



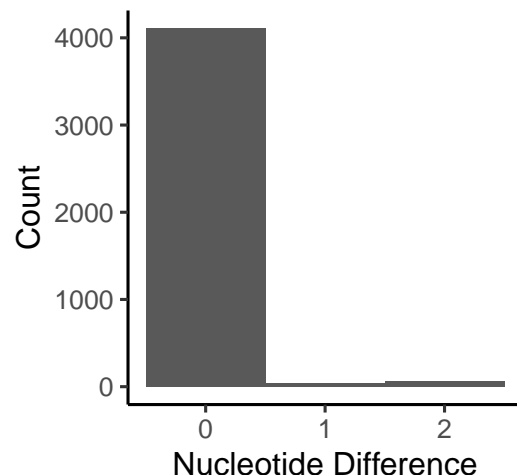
### TRBV10-2\*ap01

2646 sequences assigned  
2627 (99.3%) exact matches, in which:  
2594 unique CDR3  
13 unique J



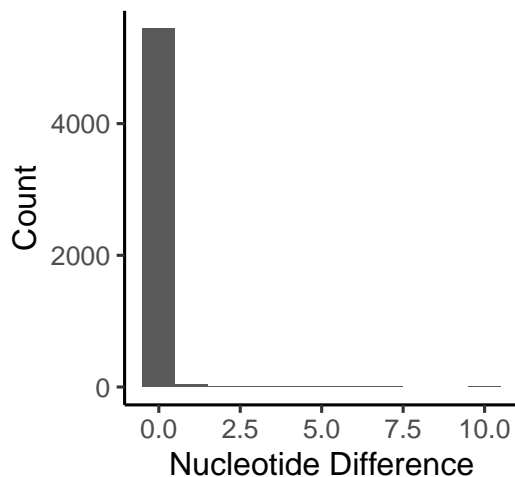
### TRBV13\*ap01

4203 sequences assigned  
4108 (97.7%) exact matches, in which:  
3984 unique CDR3  
13 unique J



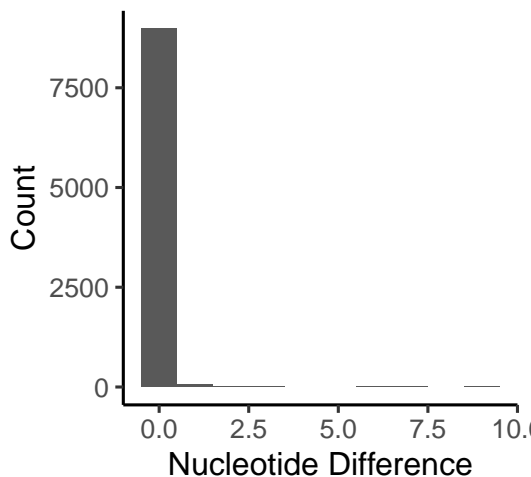
### TRBV10-1\*ap01

5498 sequences assigned  
5441 (99%) exact matches, in which:  
5330 unique CDR3  
13 unique J



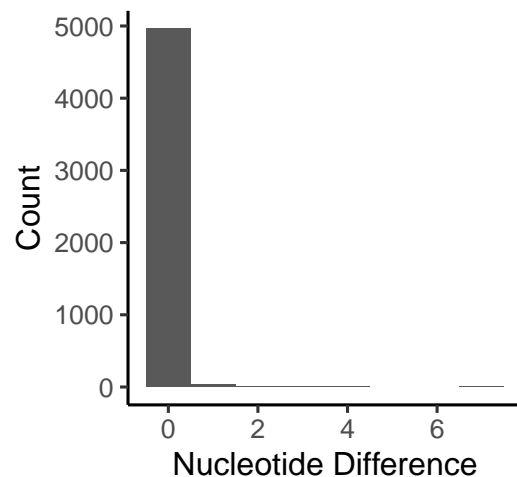
### TRBV10-3\*ap01

9064 sequences assigned  
8980 (99.1%) exact matches, in which:  
8853 unique CDR3  
13 unique J



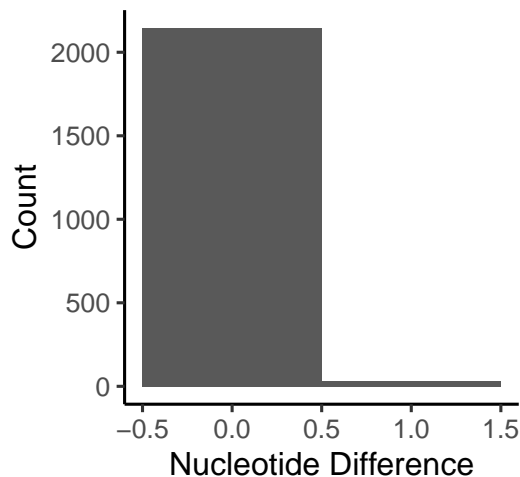
### TRBV14\*ap01

4997 sequences assigned  
4962 (99.3%) exact matches, in which:  
4905 unique CDR3  
13 unique J



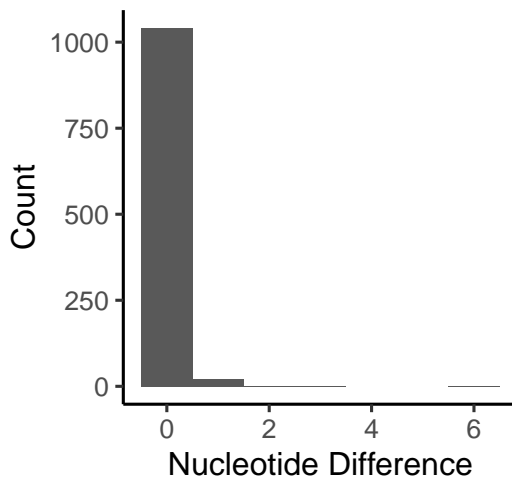
### TRBV20-1\*ap02

2176 sequences assigned  
2145 (98.6%) exact matches, in which:  
2112 unique CDR3  
13 unique J



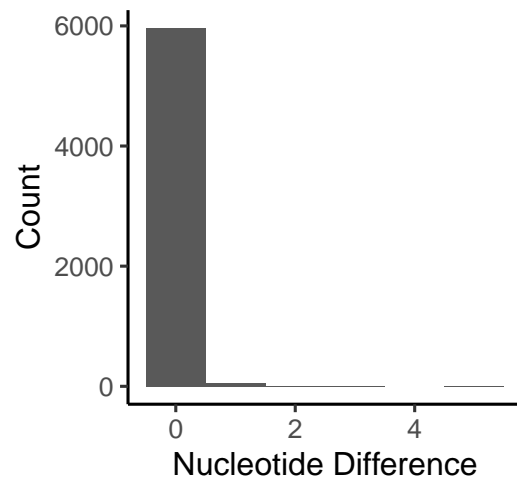
### TRBV1\*ap01

1066 sequences assigned  
1041 (97.7%) exact matches, in which:  
1015 unique CDR3  
13 unique J



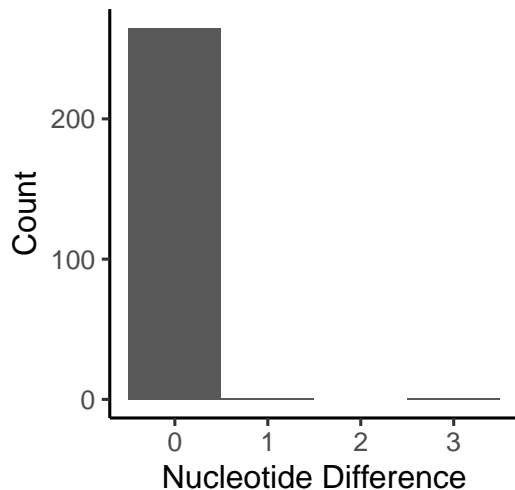
### TRBV15\*ap02

6023 sequences assigned  
5964 (99%) exact matches, in which:  
5851 unique CDR3  
13 unique J



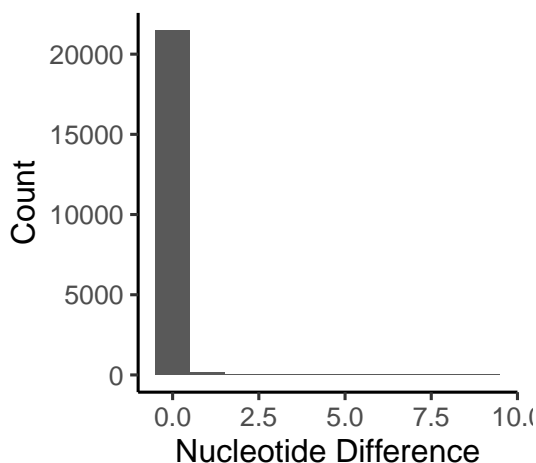
### TRBV16\*ap01

267 sequences assigned  
265 (99.3%) exact matches, in which:  
264 unique CDR3  
13 unique J



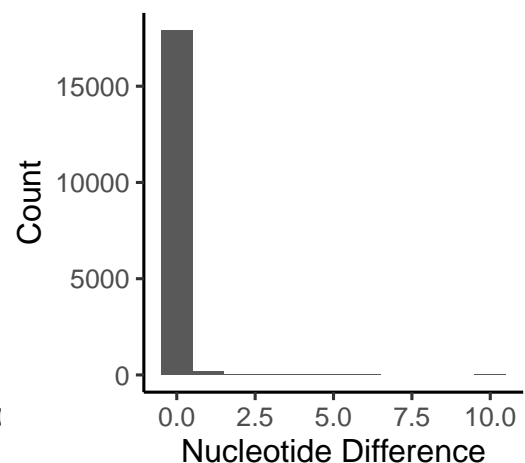
### TRBV19\*ap01

21685 sequences assigned  
21496 (99.1%) exact matches, in which:  
21364 unique CDR3  
13 unique J



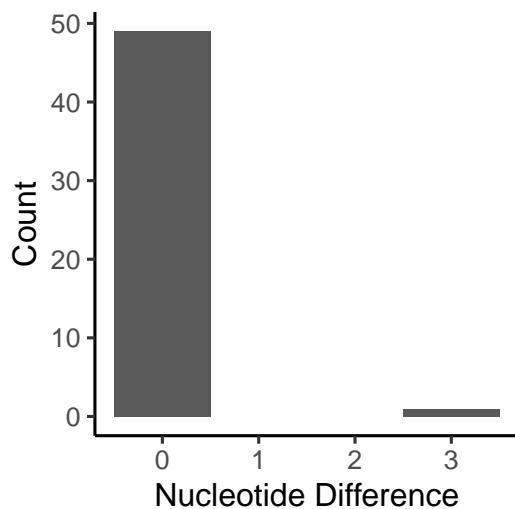
### TRBV27\*ap01

18117 sequences assigned  
17912 (98.9%) exact matches, in which:  
17535 unique CDR3  
14 unique J



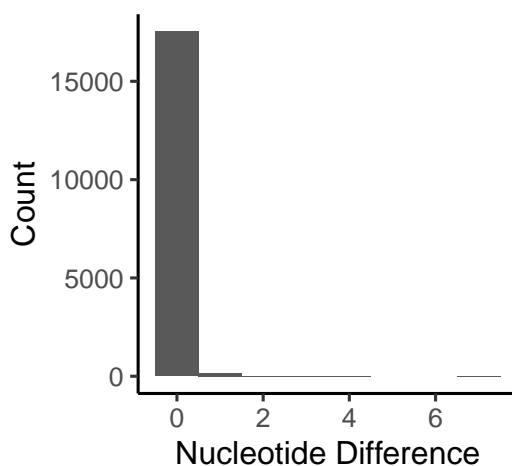
### TRBV17\*ap01

50 sequences assigned  
49 (98%) exact matches, in which:  
49 unique CDR3  
11 unique J



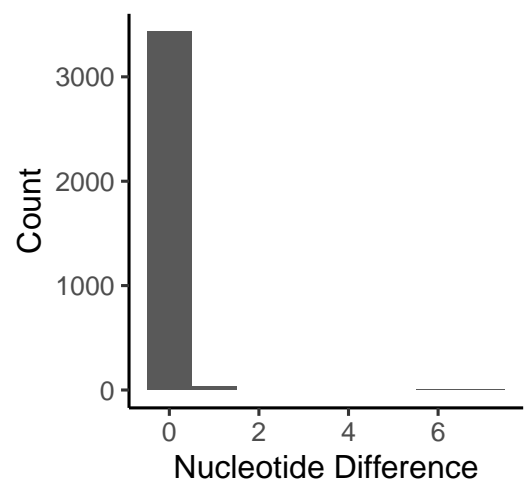
### TRBV2\*ap01

17726 sequences assigned  
17535 (98.9%) exact matches, in which:  
17146 unique CDR3  
13 unique J



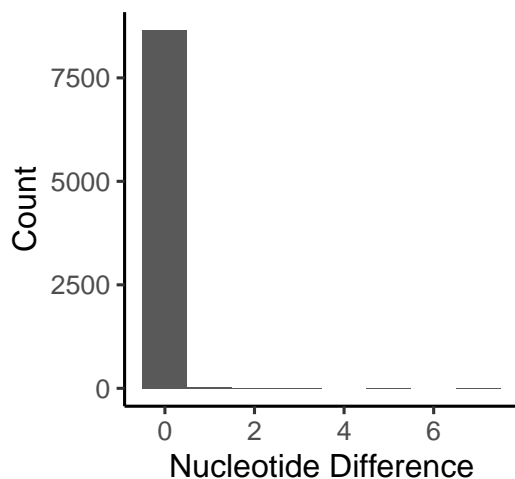
### TRBV28\*ap01

3465 sequences assigned  
3432 (99%) exact matches, in which:  
3397 unique CDR3  
13 unique J



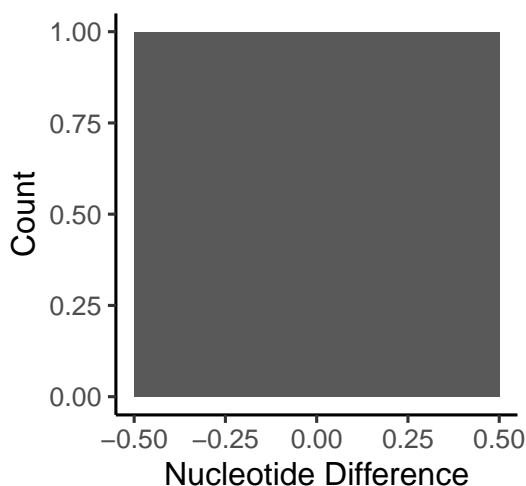
### TRBV18\*ap01

8696 sequences assigned  
8655 (99.5%) exact matches, in which:  
8599 unique CDR3  
13 unique J



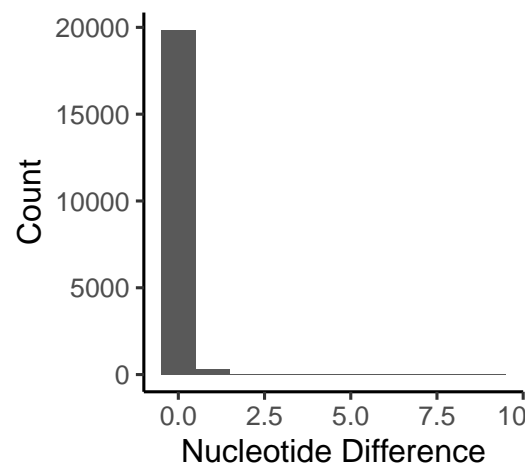
### TRBV26\*ap01

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



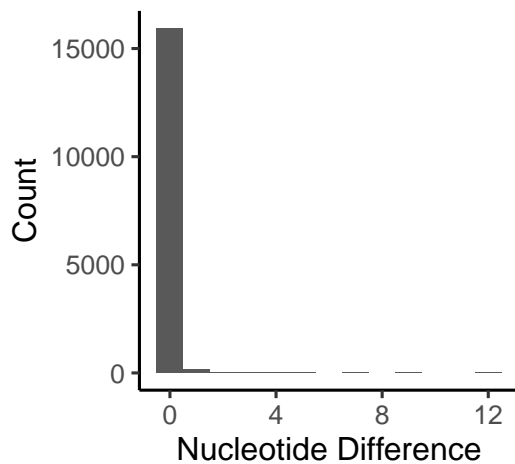
### TRBV30\*ap01

20175 sequences assigned  
19860 (98.4%) exact matches, in which:  
19370 unique CDR3  
13 unique J



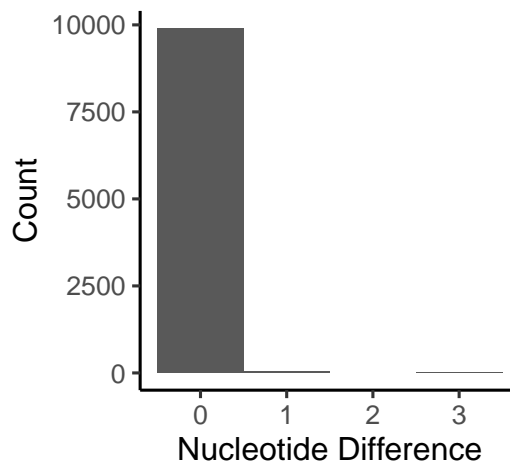
### TRBV9\*ap01

16103 sequences assigned  
15942 (99%) exact matches, in which:  
15730 unique CDR3  
13 unique J



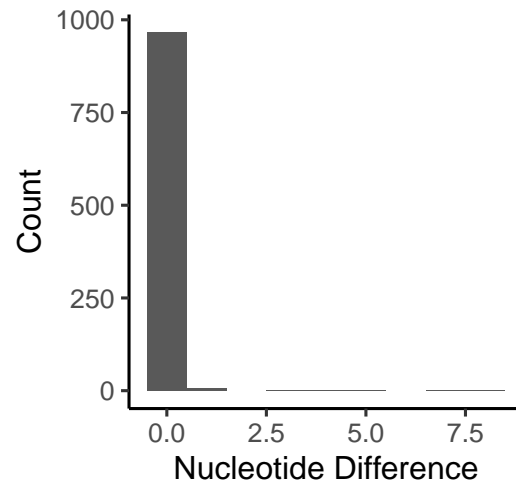
### TRBV11-2\*ap01

9955 sequences assigned  
9906 (99.5%) exact matches, in which:  
9833 unique CDR3  
13 unique J



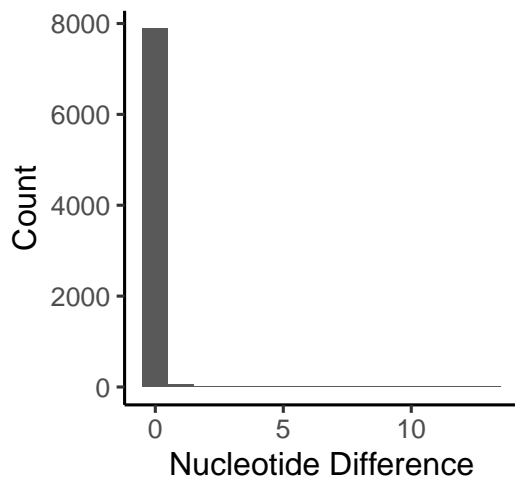
### TRBV12-2\*ap01

977 sequences assigned  
966 (98.9%) exact matches, in which:  
959 unique CDR3  
13 unique J



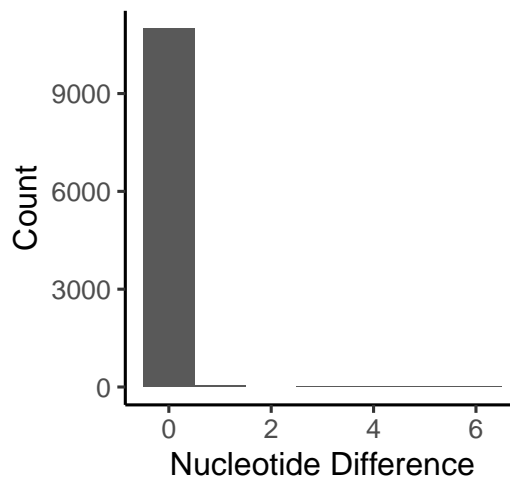
### TRBV21-1\*ap01

7989 sequences assigned  
7885 (98.7%) exact matches, in which:  
7810 unique CDR3  
13 unique J



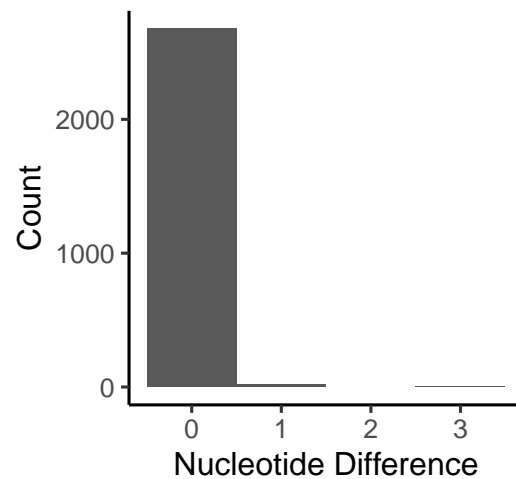
### TRBV11-3\*ap01

11053 sequences assigned  
10988 (99.4%) exact matches, in which:  
10876 unique CDR3  
13 unique J



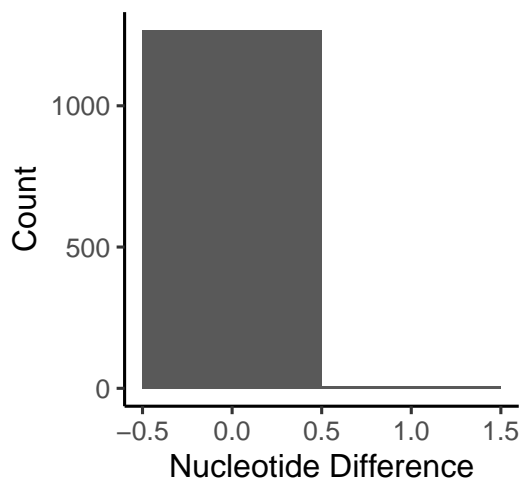
### TRBV12-5\*ap01

2698 sequences assigned  
2677 (99.2%) exact matches, in which:  
2645 unique CDR3  
13 unique J



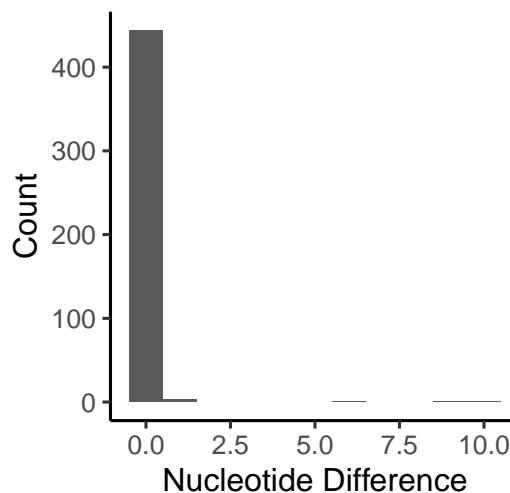
### TRBV11-1\*ap01

1276 sequences assigned  
1268 (99.4%) exact matches, in which:  
1263 unique CDR3  
13 unique J



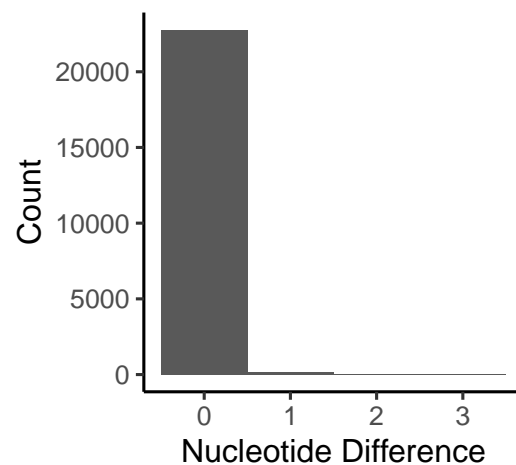
### TRBV12-1\*ap01

450 sequences assigned  
444 (98.7%) exact matches, in which:  
441 unique CDR3  
13 unique J



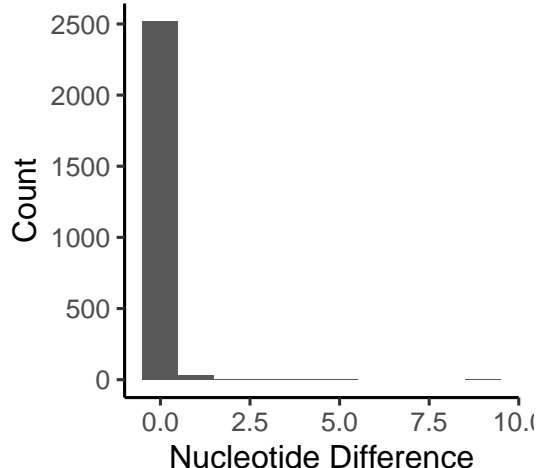
### TRBV12-34\*ap01

22975 sequences assigned  
22772 (99.1%) exact matches, in which:  
22404 unique CDR3  
14 unique J



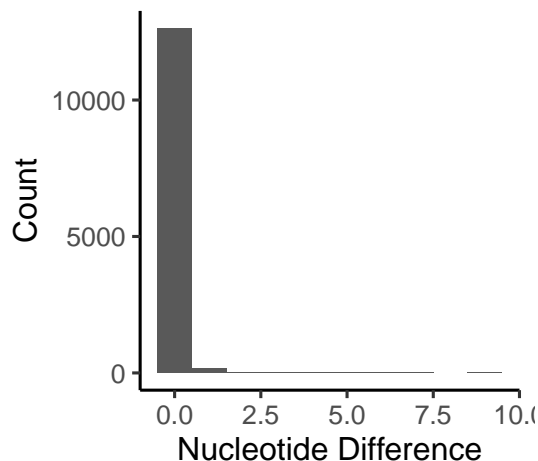
### TRBV23-1\*ap01

2561 sequences assigned  
2518 (98.3%) exact matches, in which:  
2489 unique CDR3  
13 unique J



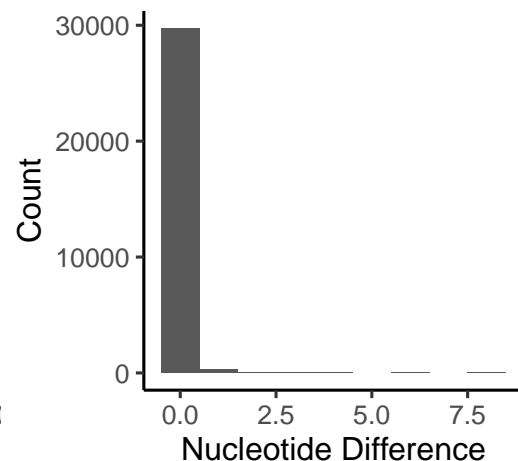
### TRBV24-1\*ap01

12829 sequences assigned  
12634 (98.5%) exact matches, in which:  
12400 unique CDR3  
13 unique J



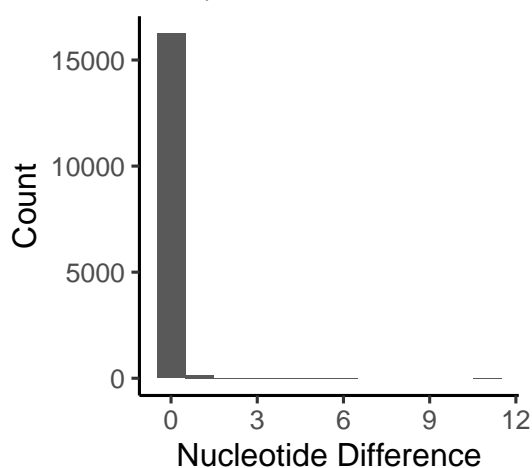
### TRBV5-1\*ap01

30052 sequences assigned  
29751 (99%) exact matches, in which:  
29098 unique CDR3  
13 unique J



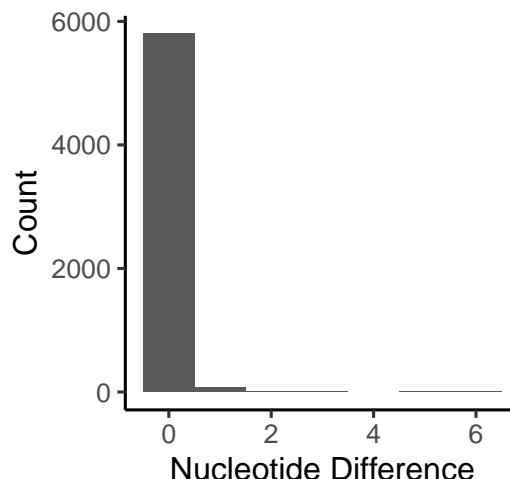
### TRBV3-12\*ap01

16427 sequences assigned  
16251 (98.9%) exact matches, in which:  
15939 unique CDR3  
13 unique J



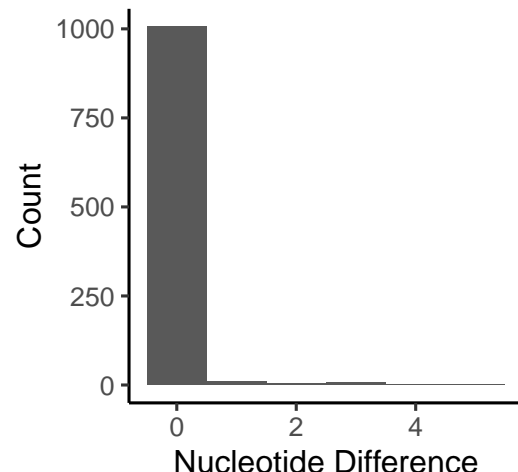
### TRBV4-2\*ap01

5876 sequences assigned  
5800 (98.7%) exact matches, in which:  
5661 unique CDR3  
13 unique J



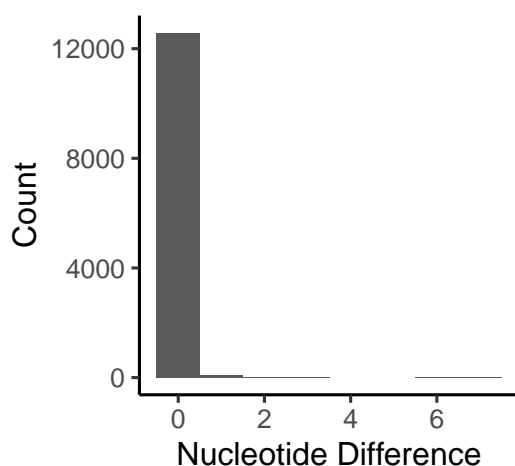
### TRBV5-3\*ap01

1027 sequences assigned  
1006 (98%) exact matches, in which:  
1000 unique CDR3  
13 unique J



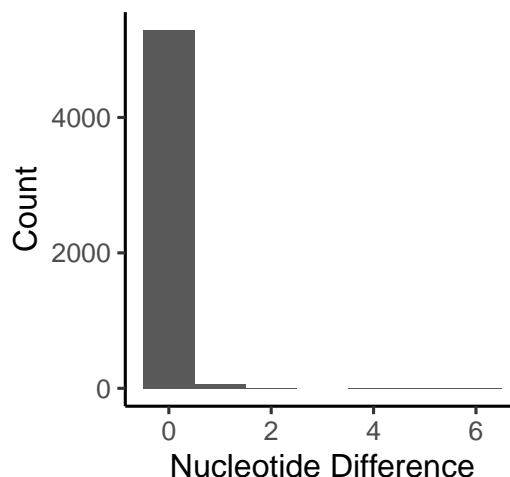
### TRBV4-1\*ap01

12694 sequences assigned  
12580 (99.1%) exact matches, in which:  
12282 unique CDR3  
13 unique J



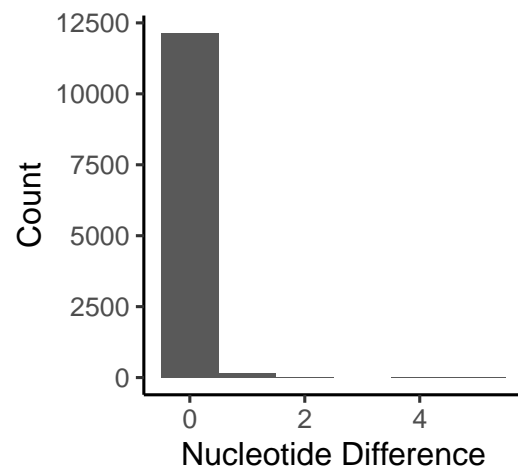
### TRBV25-1\*ap01

5362 sequences assigned  
5291 (98.7%) exact matches, in which:  
5195 unique CDR3  
13 unique J



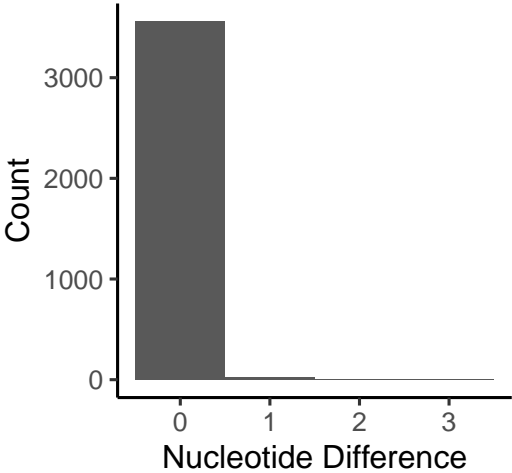
### TRBV5-4\*ap01

12301 sequences assigned  
12151 (98.8%) exact matches, in which:  
11888 unique CDR3  
13 unique J



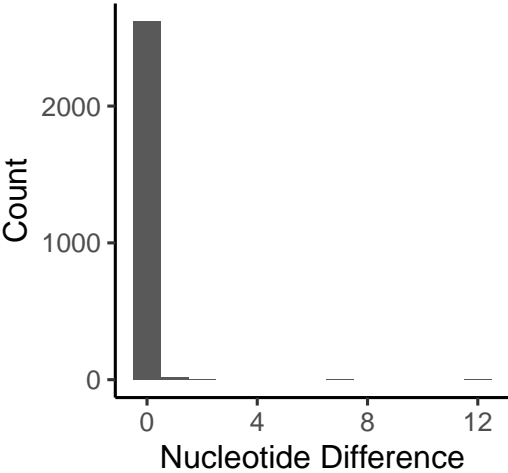
TRBV5-5\*ap01

3583 sequences assigned  
3559 (99.3%) exact matches, in which:  
3546 unique CDR3  
13 unique J



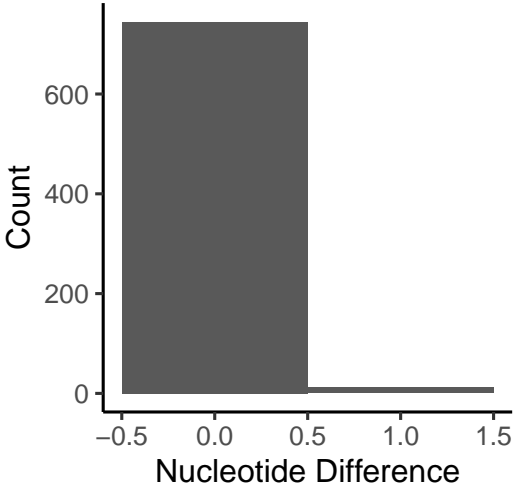
TRBV5-8\*ap01

2639 sequences assigned  
2619 (99.2%) exact matches, in which:  
2594 unique CDR3  
13 unique J



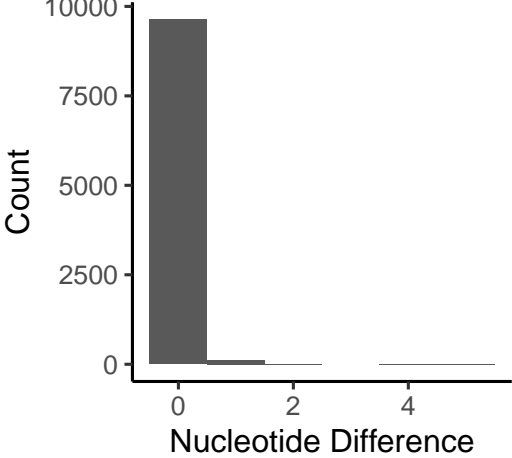
TRBV6-7\*ap01

757 sequences assigned  
745 (98.4%) exact matches, in which:  
729 unique CDR3  
13 unique J



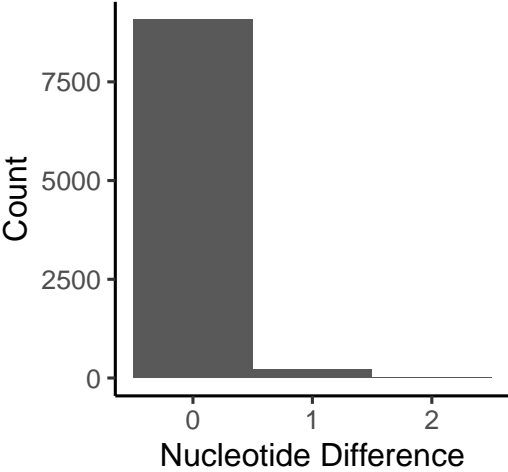
TRBV5-6\*ap01

9754 sequences assigned  
9635 (98.8%) exact matches, in which:  
9378 unique CDR3  
13 unique J



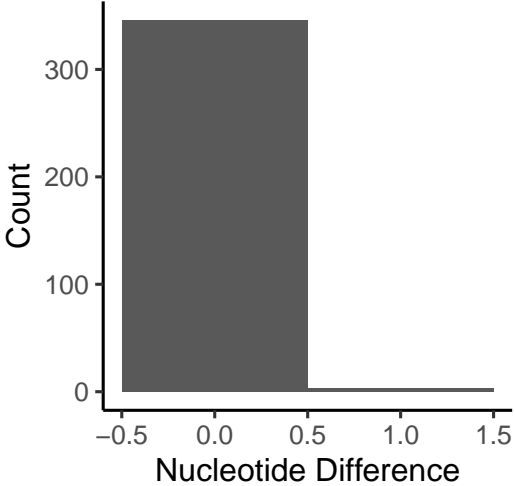
TRBV6-1\*ap01

9295 sequences assigned  
9073 (97.6%) exact matches, in which:  
8879 unique CDR3  
13 unique J



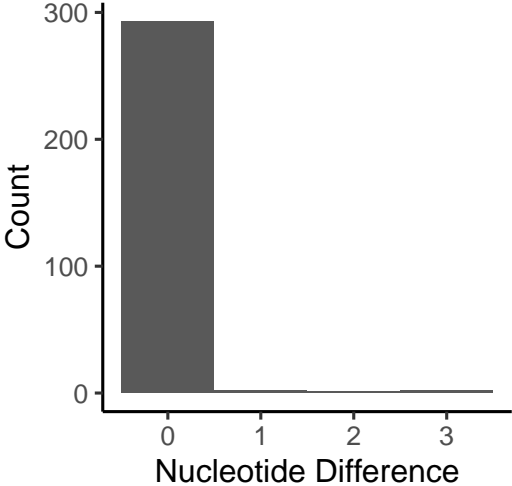
TRBV6-8\*ap01

349 sequences assigned  
346 (99.1%) exact matches, in which:  
338 unique CDR3  
13 unique J



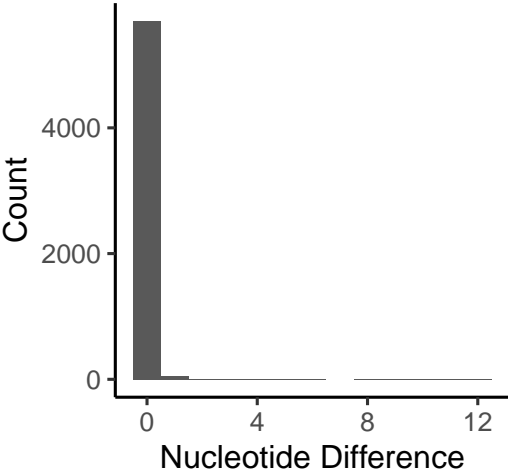
TRBV5-7\*ap01

298 sequences assigned  
293 (98.3%) exact matches, in which:  
286 unique CDR3  
13 unique J



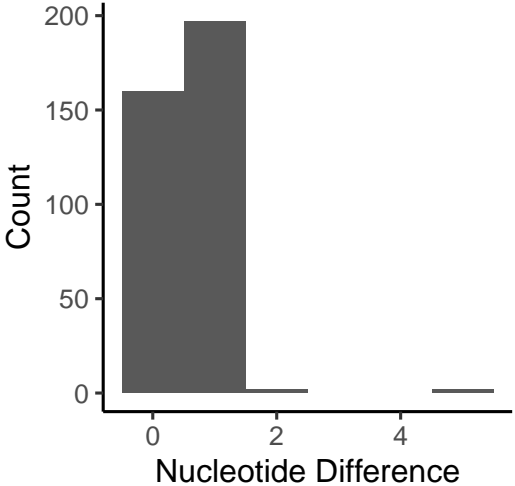
TRBV6-4\*ap01

5777 sequences assigned  
5699 (98.6%) exact matches, in which:  
5627 unique CDR3  
13 unique J



TRBV6-9\*ap01

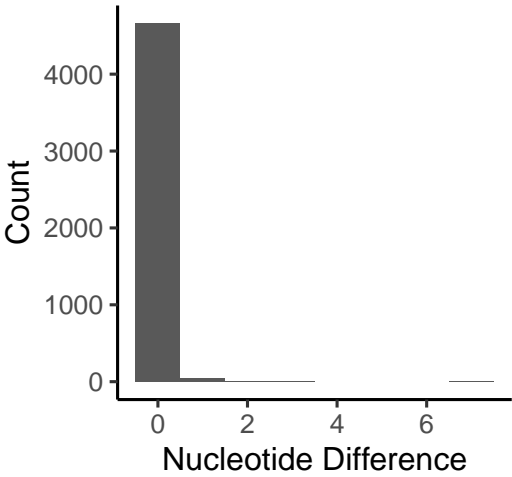
361 sequences assigned  
160 (44.3%) exact matches, in which:  
157 unique CDR3  
12 unique J





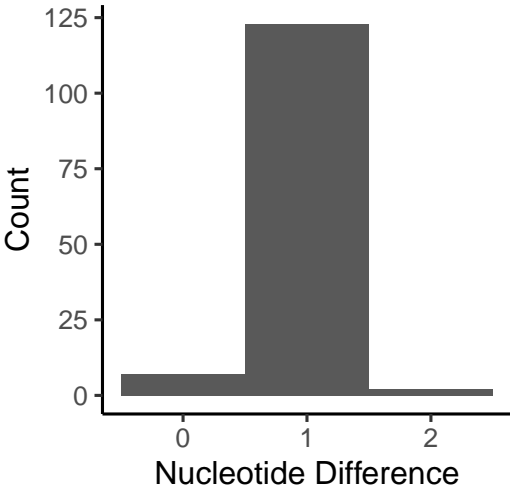
TRBV6-23\*ap01

4714 sequences assigned  
4660 (98.9%) exact matches, in which:  
4531 unique CDR3  
13 unique J



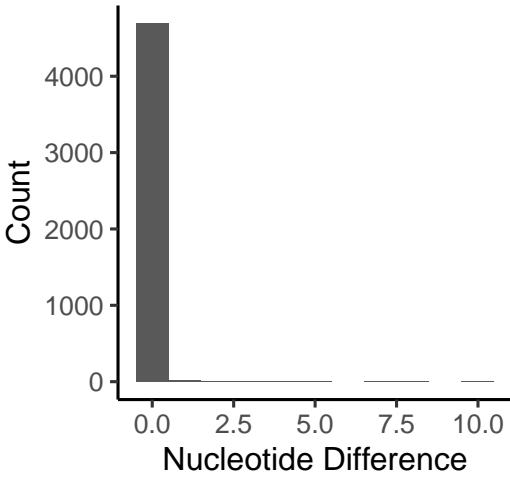
TRBV7-1\*ap01\_T296C

132 sequences assigned  
7 (5.3%) exact matches, in which:  
7 unique CDR3  
6 unique J



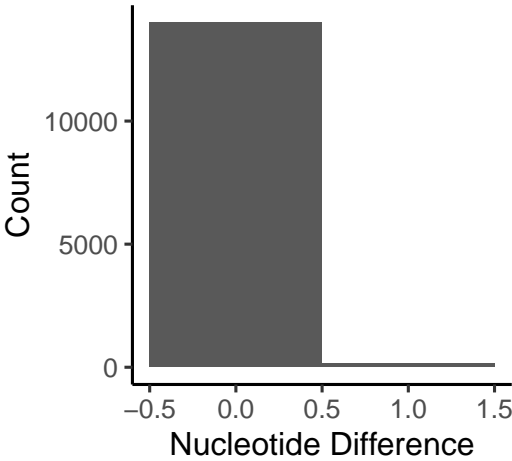
TRBV7-3\*ap01

4729 sequences assigned  
4692 (99.2%) exact matches, in which:  
4662 unique CDR3  
13 unique J



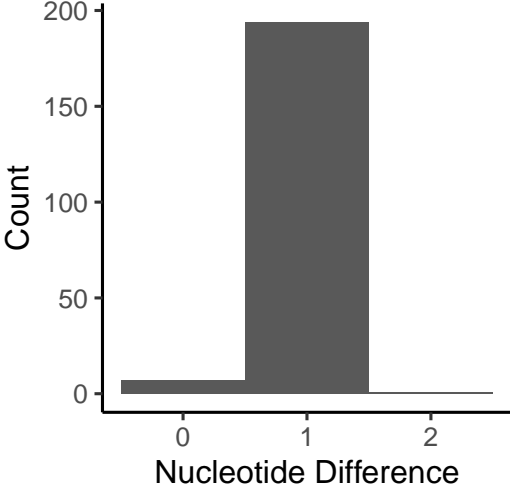
TRBV6-56\*ap01

14167 sequences assigned  
14005 (98.9%) exact matches, in which:  
13703 unique CDR3  
13 unique J



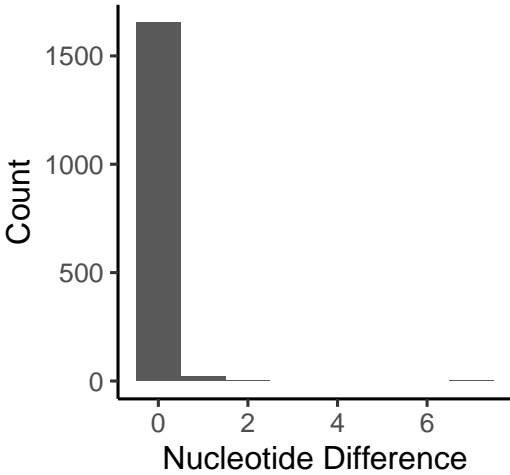
TRBV7-1\*ap01\_T296C\_()

202 sequences assigned  
7 (3.5%) exact matches, in which:  
7 unique CDR3  
6 unique J



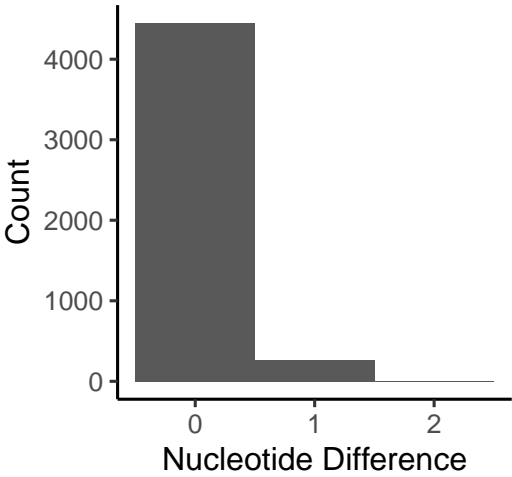
TRBV7-3\*ap03

1675 sequences assigned  
1653 (98.7%) exact matches, in which:  
1630 unique CDR3  
13 unique J



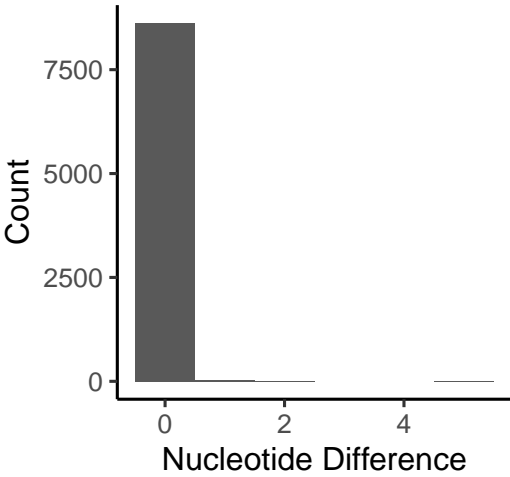
TRBV6-56\*ap02

4717 sequences assigned  
4449 (94.3%) exact matches, in which:  
4340 unique CDR3  
13 unique J



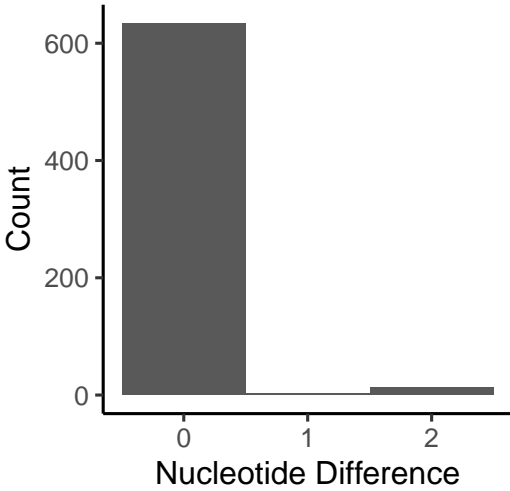
TRBV7-2\*ap01

8663 sequences assigned  
8622 (99.5%) exact matches, in which:  
8546 unique CDR3  
13 unique J



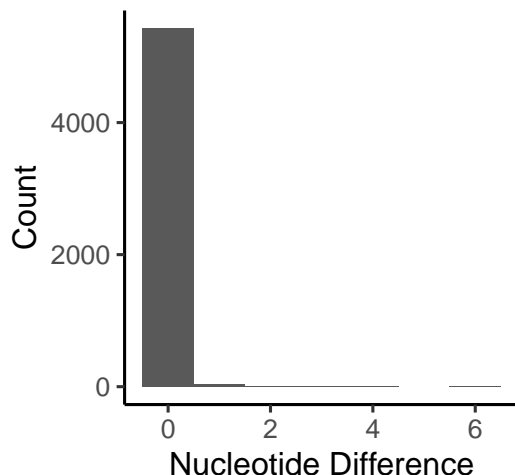
TRBV7-4\*ap01

649 sequences assigned  
634 (97.7%) exact matches, in which:  
620 unique CDR3  
13 unique J



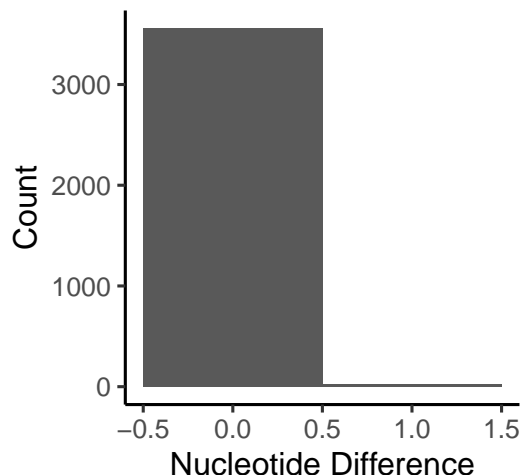
### TRBV7-6\*ap01

5462 sequences assigned  
5426 (99.3%) exact matches, in which:  
5332 unique CDR3  
13 unique J



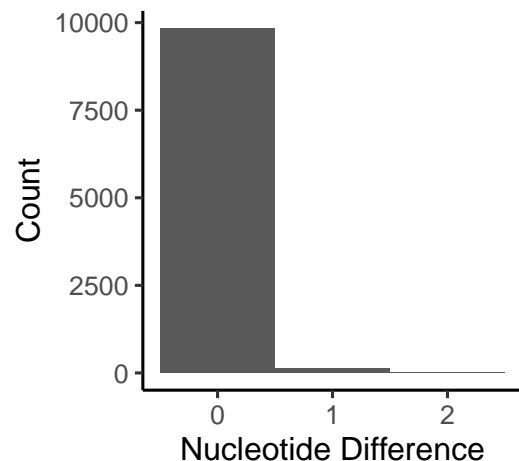
### TRBV7-8\*ap01

3586 sequences assigned  
3557 (99.2%) exact matches, in which:  
3487 unique CDR3  
13 unique J



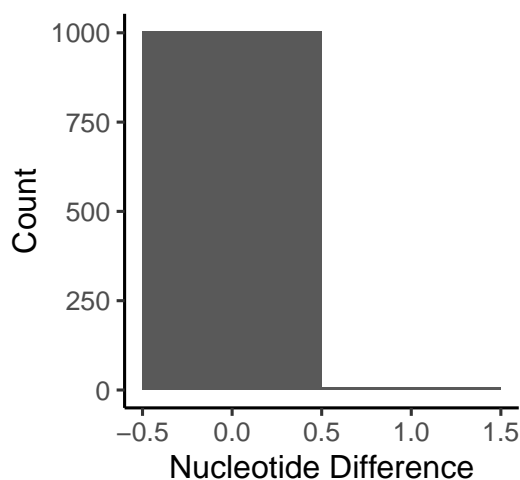
### TRBV29-1\*ap01

9982 sequences assigned  
9842 (98.6%) exact matches, in which:  
9592 unique CDR3  
13 unique J



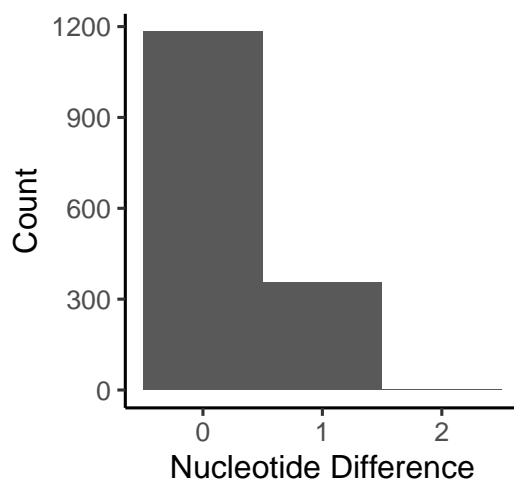
### TRBV7-7\*ap01

1009 sequences assigned  
1003 (99.4%) exact matches, in which:  
990 unique CDR3  
13 unique J



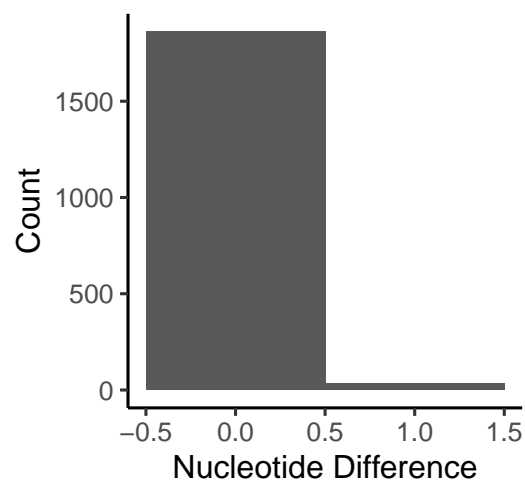
### TRBV7-8\*ap03

1542 sequences assigned  
1183 (76.7%) exact matches, in which:  
1165 unique CDR3  
13 unique J



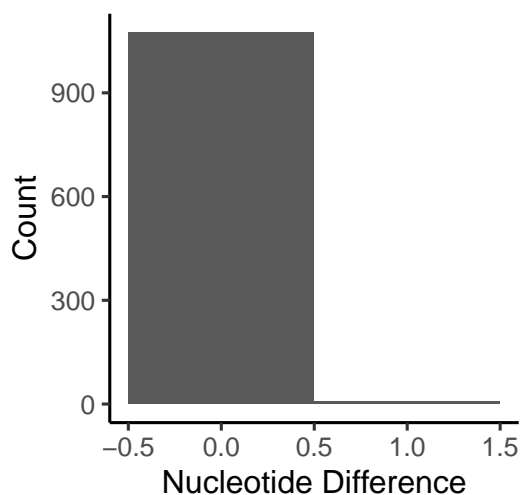
### TRBV29-1\*ap02

1894 sequences assigned  
1861 (98.3%) exact matches, in which:  
1806 unique CDR3  
13 unique J



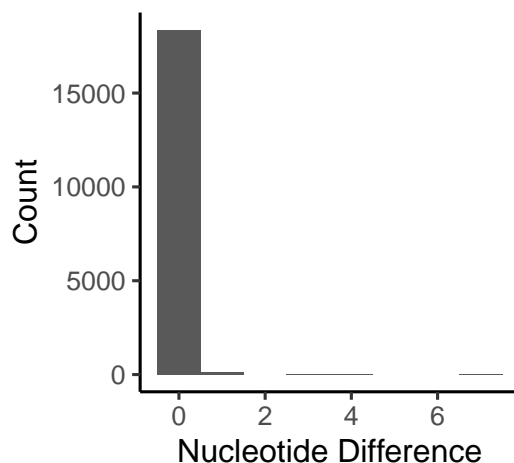
### TRBV7-7\*ap01\_C315T

1081 sequences assigned  
1075 (99.4%) exact matches, in which:  
1055 unique CDR3  
13 unique J

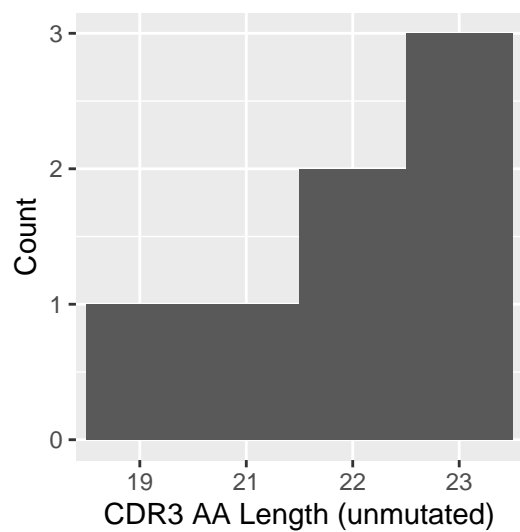


### TRBV7-9\*ap01

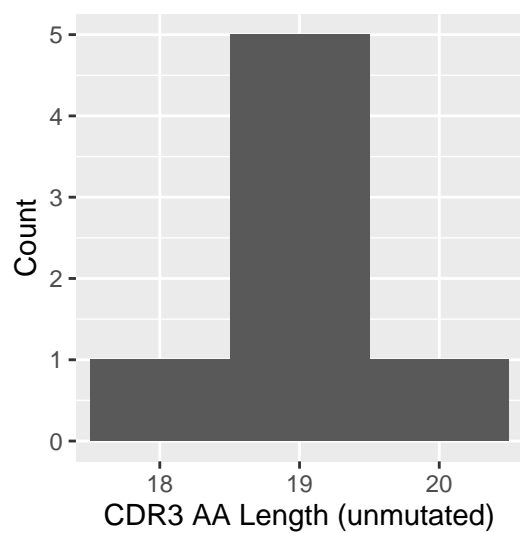
18516 sequences assigned  
18370 (99.2%) exact matches, in which:  
18153 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-7\*ap01\_C315T

