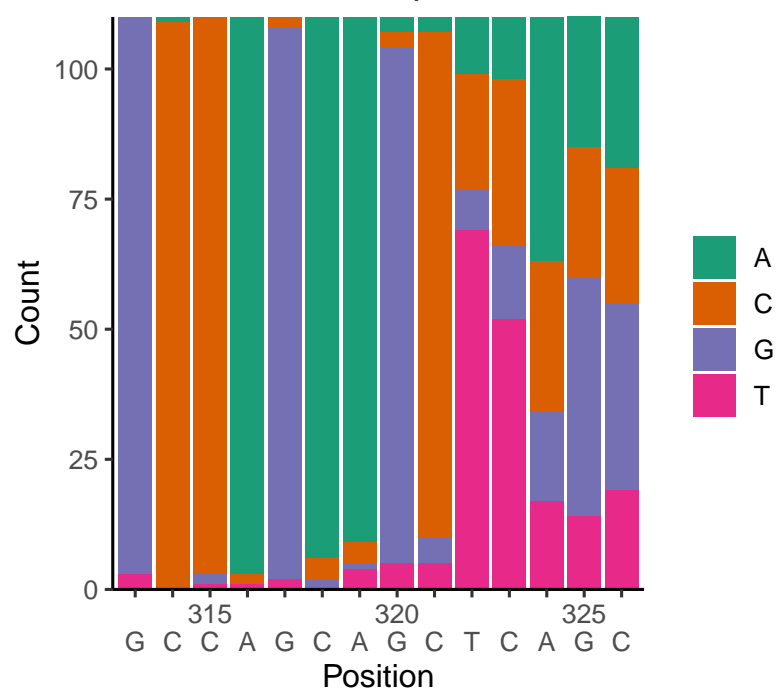
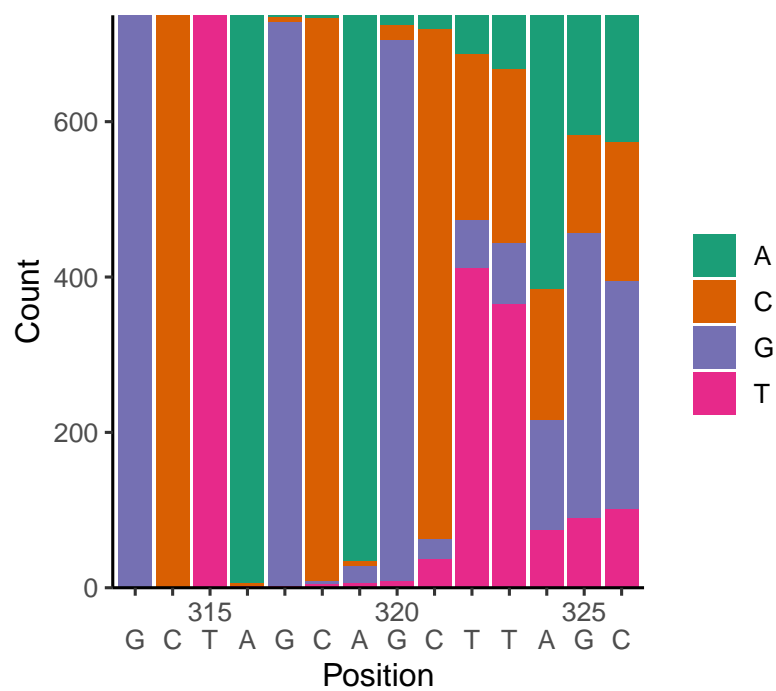


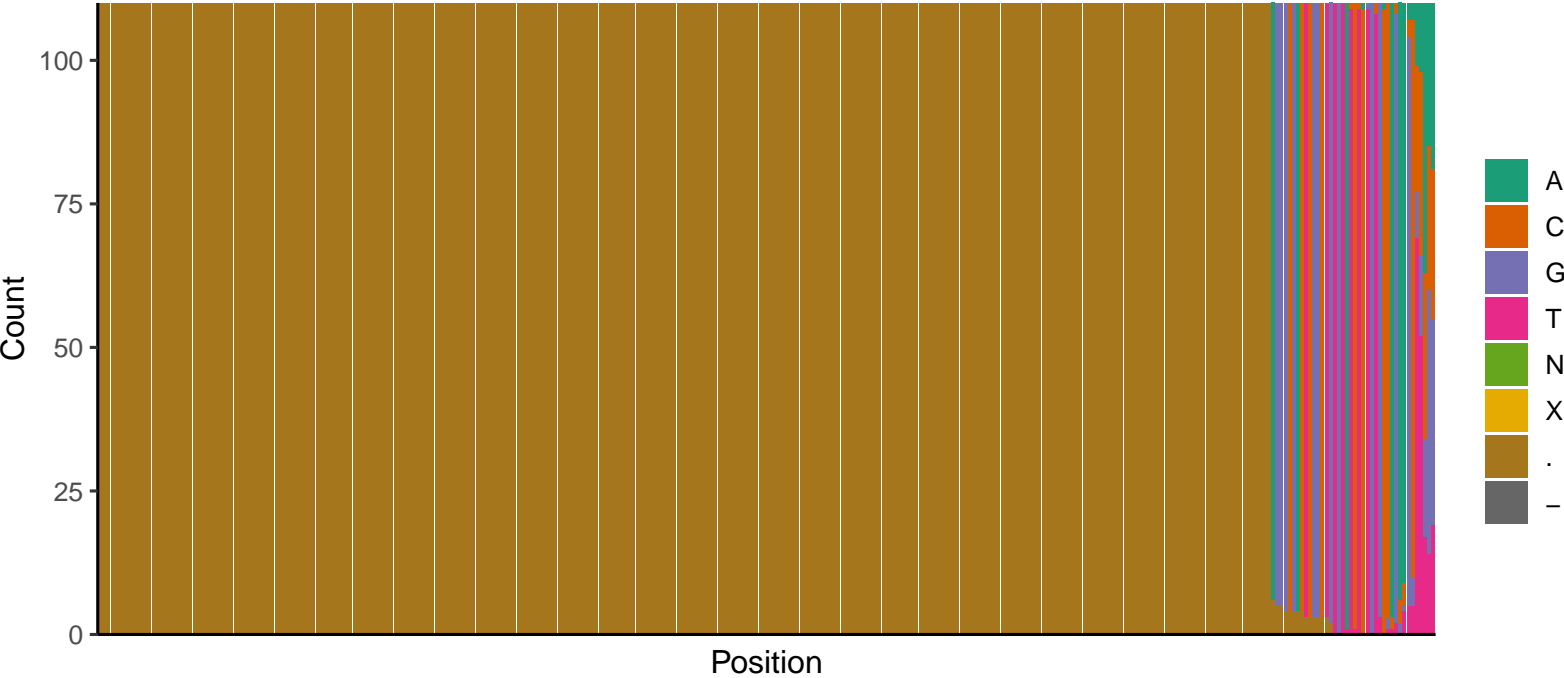
Gene TRBV7-1\*ap01\_G291C\_T296C



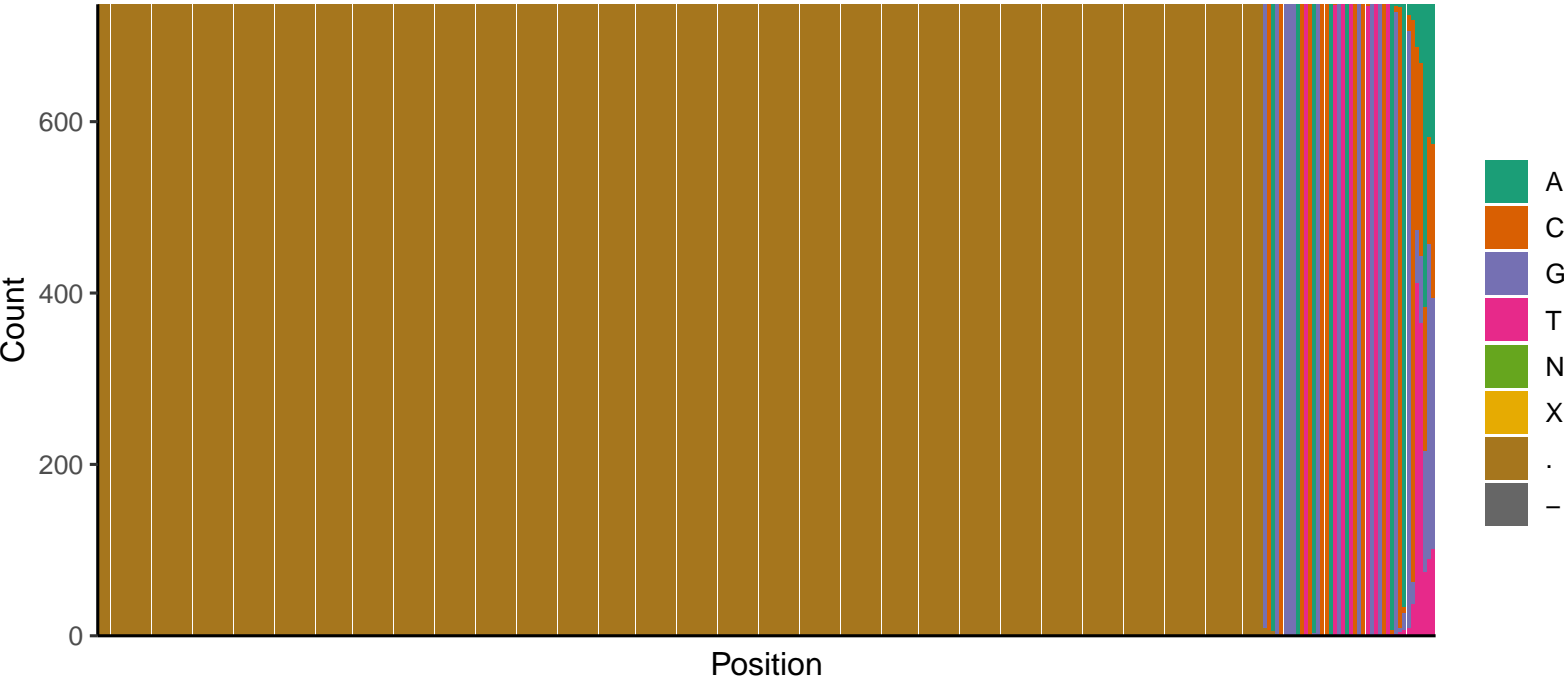
Gene TRBV7-7\*ap01\_C315T



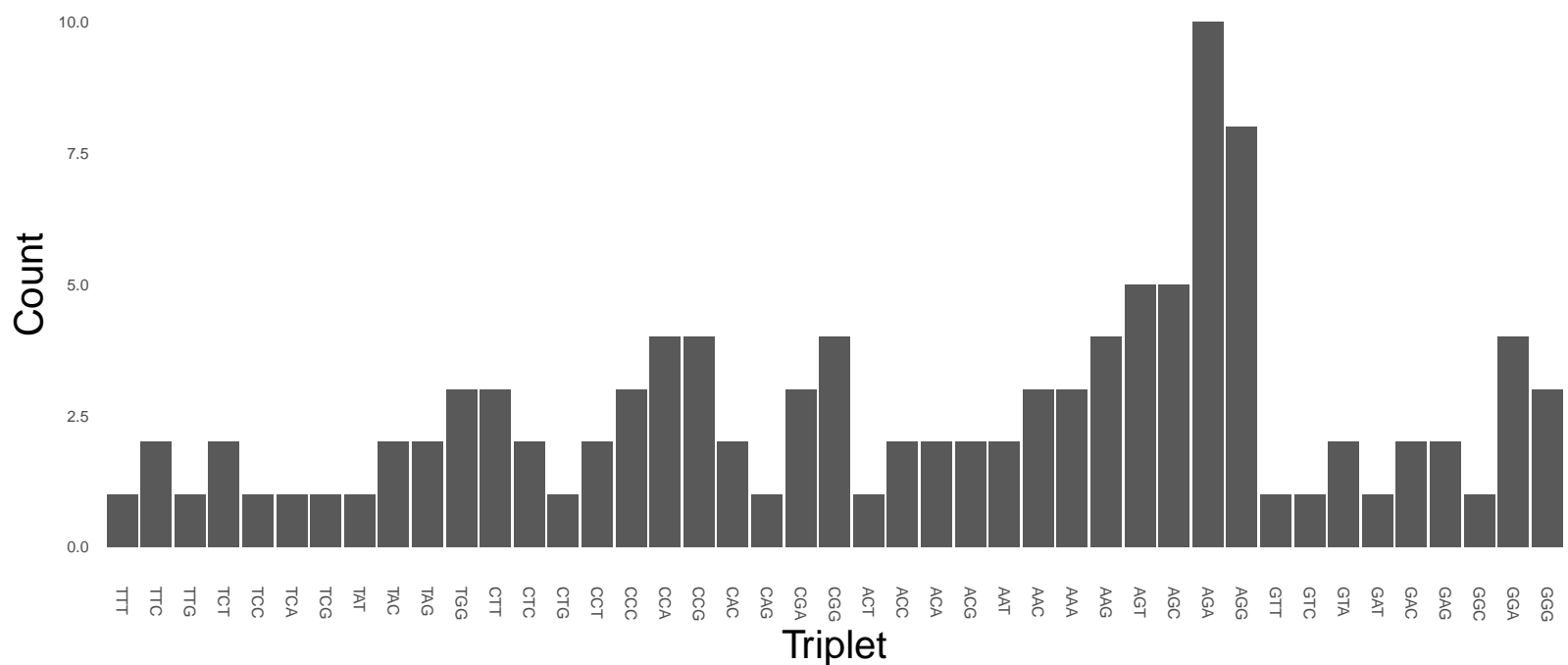
Gene TRBV7-1\*ap01\_G291C\_T296C



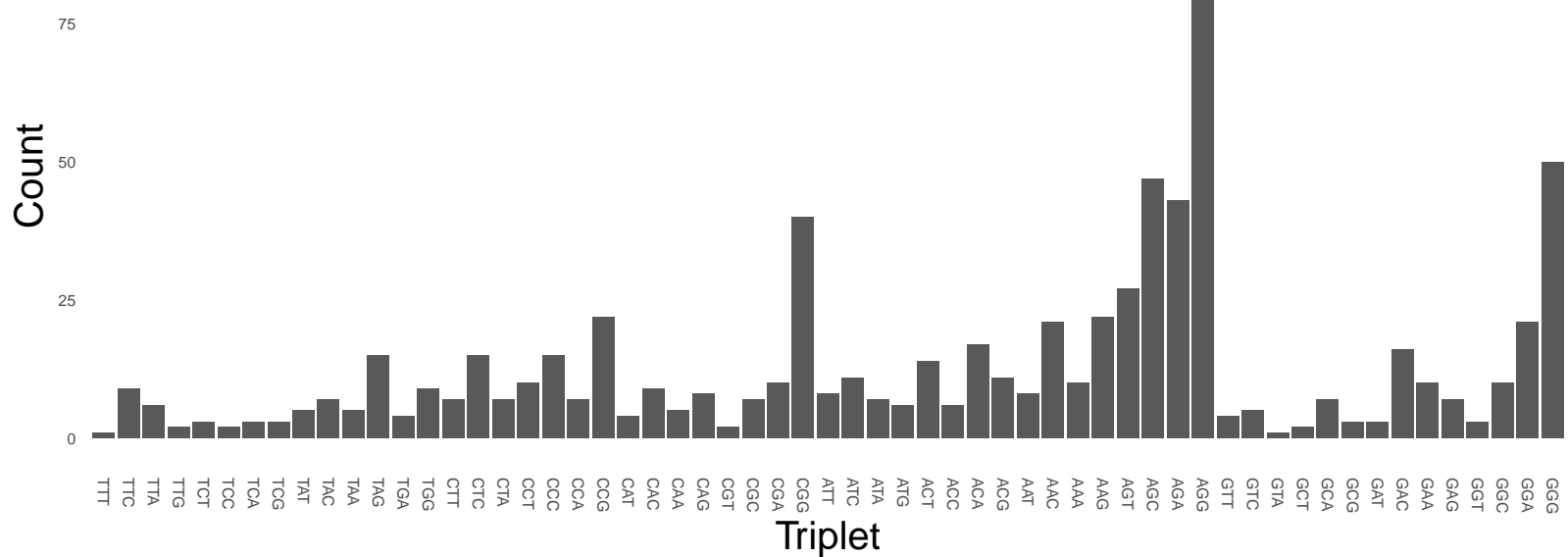
Gene TRBV7-7\*ap01\_C315T



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

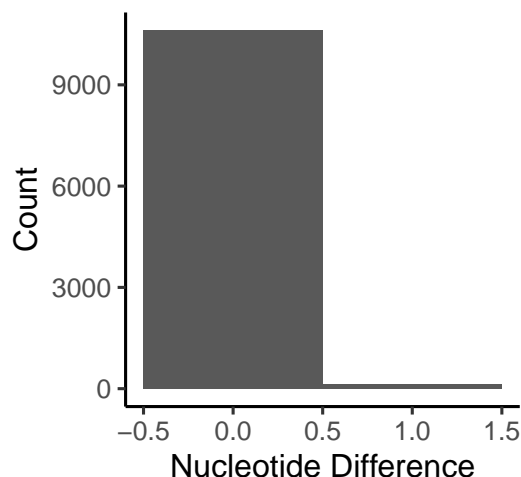


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



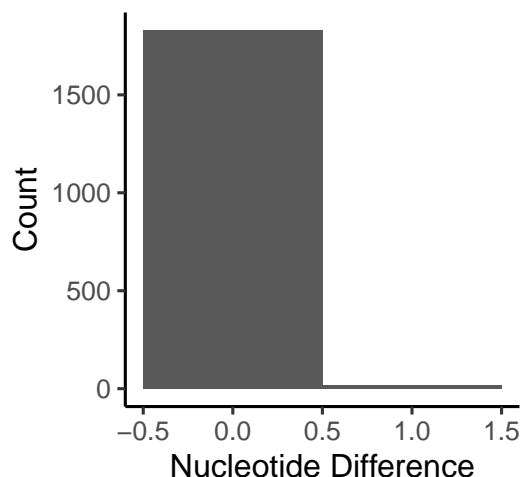
### TRBV20-1\*ap01

10745 sequences assigned  
10612 (98.8%) exact matches, in which:  
10430 unique CDR3  
13 unique J



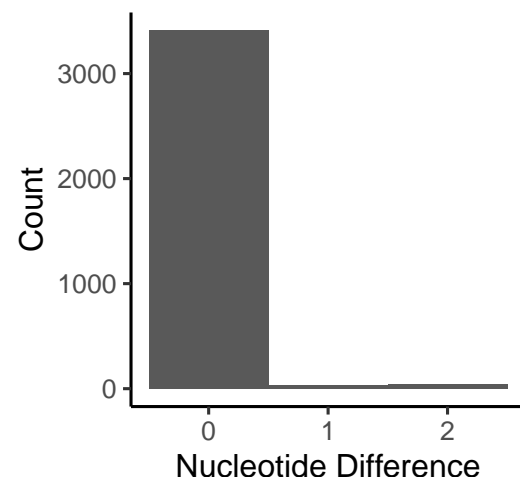
### TRBV10-2\*ap01

1849 sequences assigned  
1829 (98.9%) exact matches, in which:  
1793 unique CDR3  
13 unique J



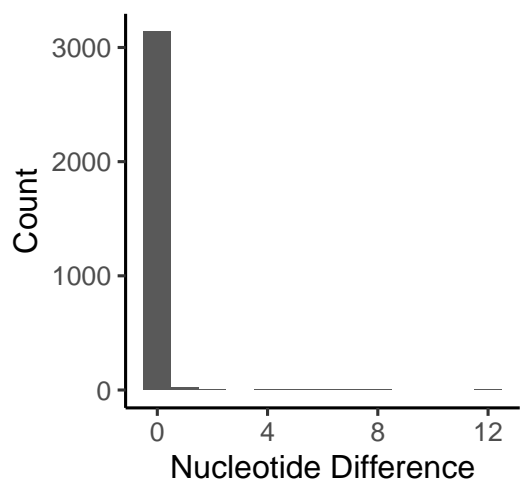
### TRBV13\*ap01

3492 sequences assigned  
3411 (97.7%) exact matches, in which:  
3329 unique CDR3  
13 unique J



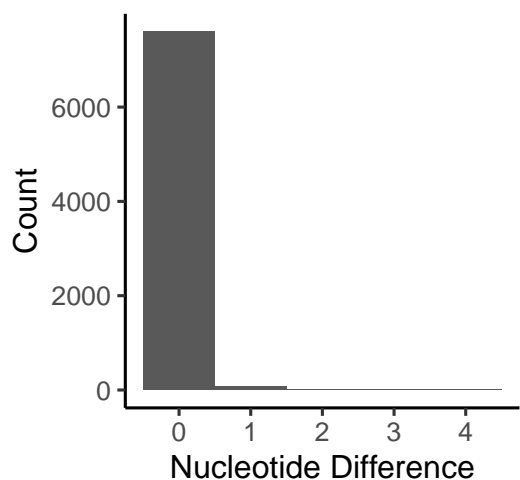
### TRBV10-1\*ap01

3173 sequences assigned  
3138 (98.9%) exact matches, in which:  
3079 unique CDR3  
13 unique J



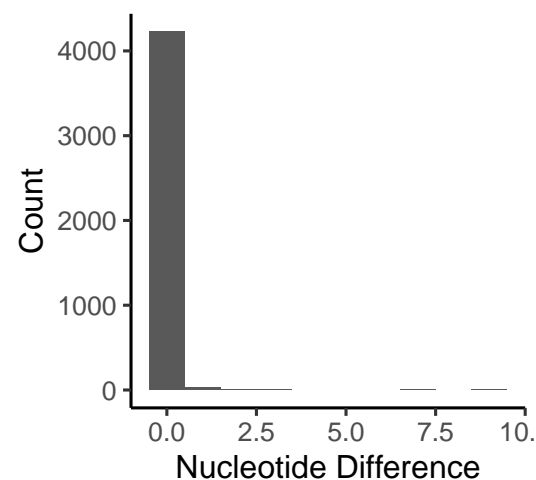
### TRBV10-3\*ap01

7688 sequences assigned  
7598 (98.8%) exact matches, in which:  
7465 unique CDR3  
13 unique J



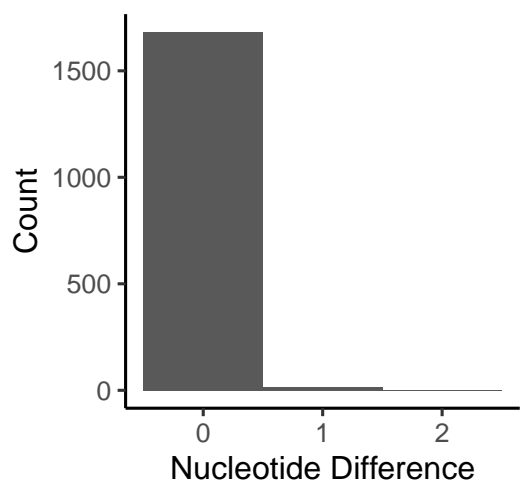
### TRBV14\*ap01

4267 sequences assigned  
4226 (99%) exact matches, in which:  
4157 unique CDR3  
13 unique J



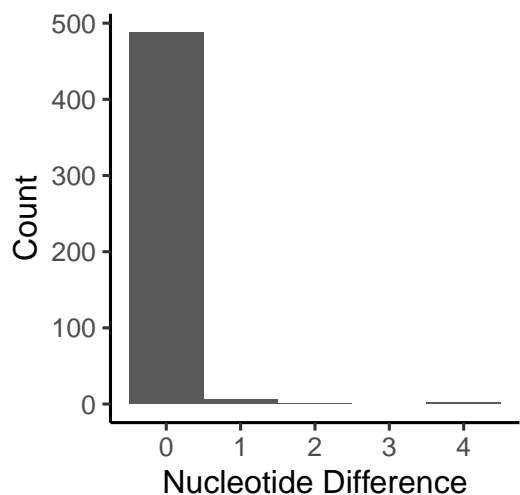
### TRBV20-1\*ap02

1698 sequences assigned  
1682 (99.1%) exact matches, in which:  
1651 unique CDR3  
13 unique J



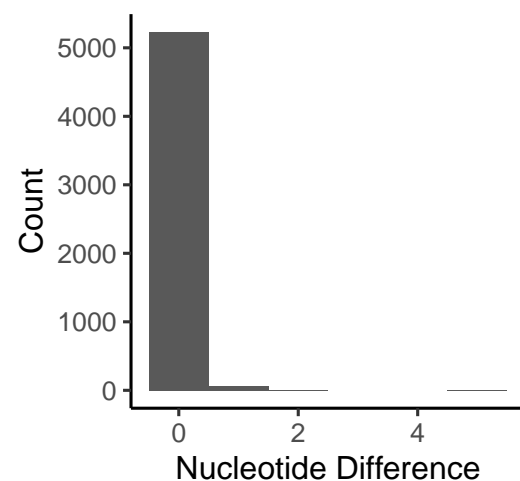
### TRBV1\*ap01

497 sequences assigned  
488 (98.2%) exact matches, in which:  
483 unique CDR3  
13 unique J



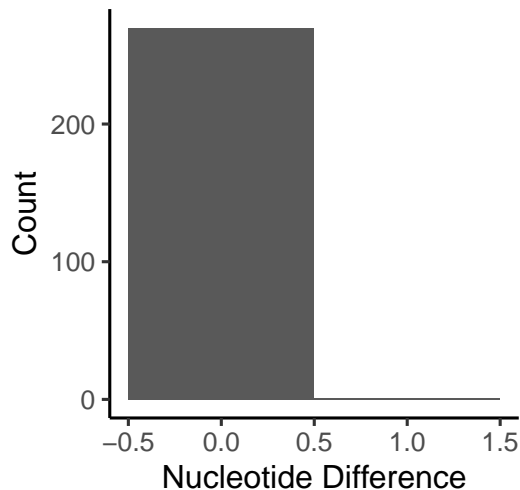
### TRBV15\*ap02

5297 sequences assigned  
5230 (98.7%) exact matches, in which:  
5133 unique CDR3  
13 unique J



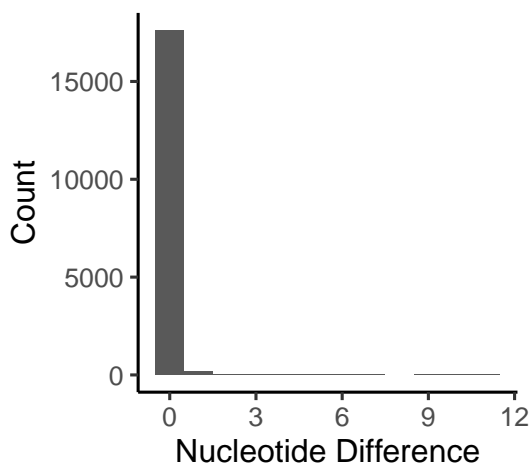
### TRBV16\*ap01

271 sequences assigned  
270 (99.6%) exact matches, in which:  
269 unique CDR3  
13 unique J



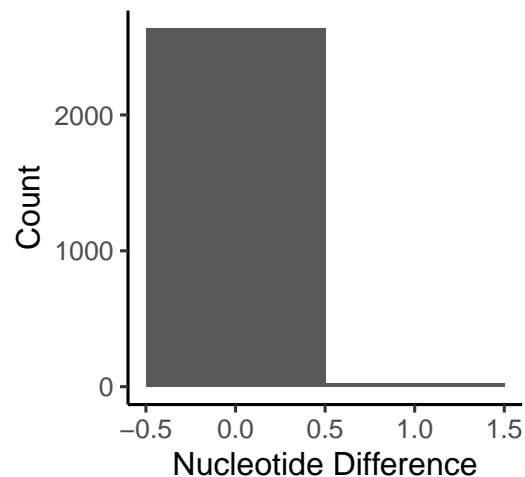
### TRBV19\*ap01

17844 sequences assigned  
17623 (98.8%) exact matches, in which:  
17432 unique CDR3  
13 unique J



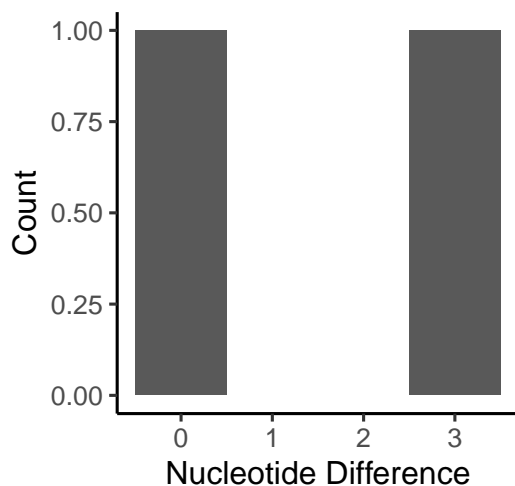
### TRBV28\*ap01

2662 sequences assigned  
2637 (99.1%) exact matches, in which:  
2597 unique CDR3  
13 unique J



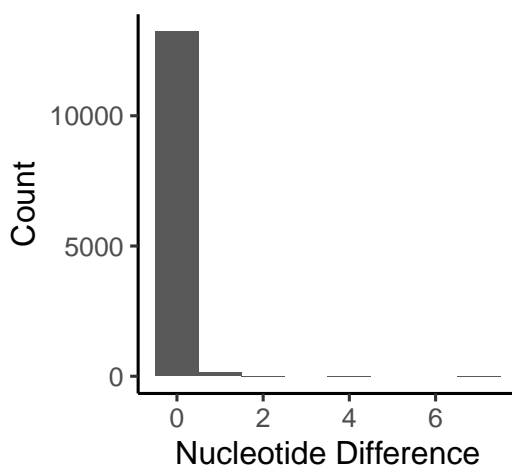
### TRBV17\*ap01

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



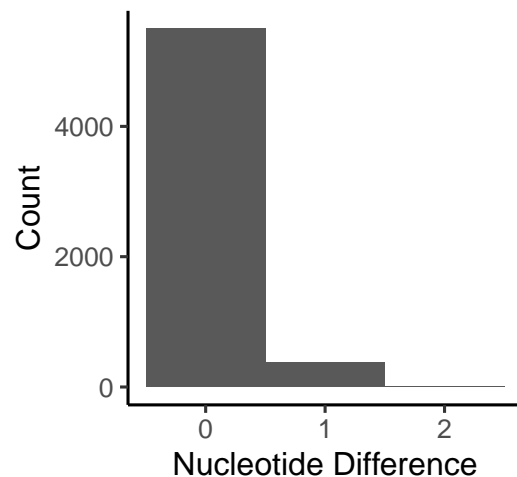
### TRBV2\*ap01

13399 sequences assigned  
13236 (98.8%) exact matches, in which:  
12982 unique CDR3  
13 unique J



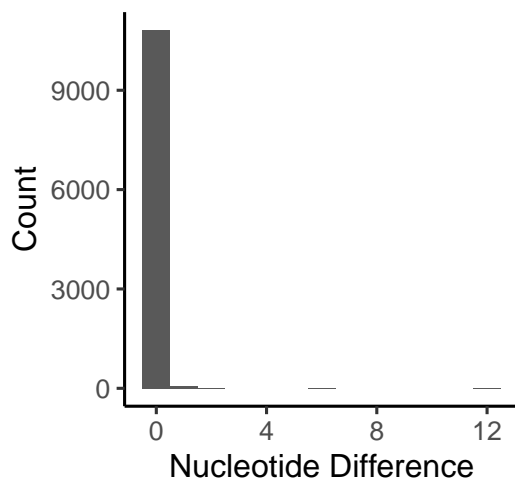
### TRBV30\*ap01

5889 sequences assigned  
5499 (93.4%) exact matches, in which:  
5430 unique CDR3  
13 unique J



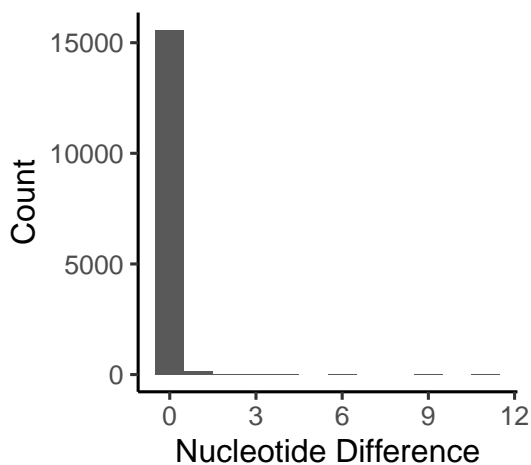
### TRBV18\*ap01

10887 sequences assigned  
10818 (99.4%) exact matches, in which:  
10684 unique CDR3  
13 unique J



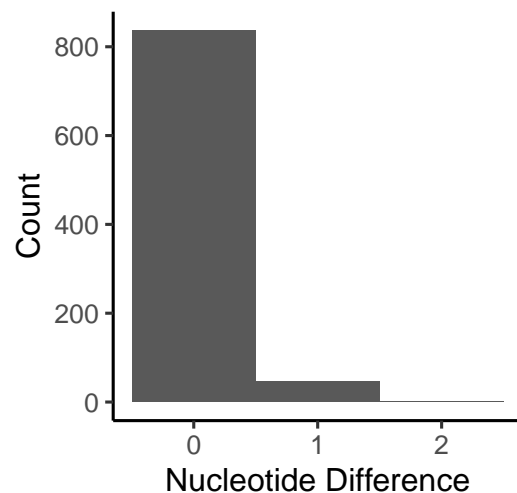
### TRBV27\*ap01

15771 sequences assigned  
15584 (98.8%) exact matches, in which:  
15206 unique CDR3  
13 unique J



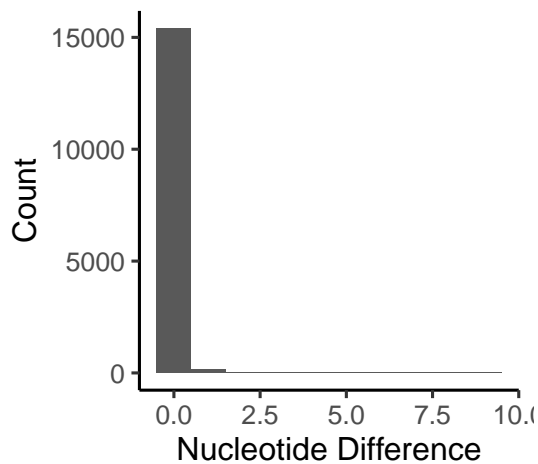
### TRBV30\*ap03

886 sequences assigned  
837 (94.5%) exact matches, in which:  
827 unique CDR3  
13 unique J



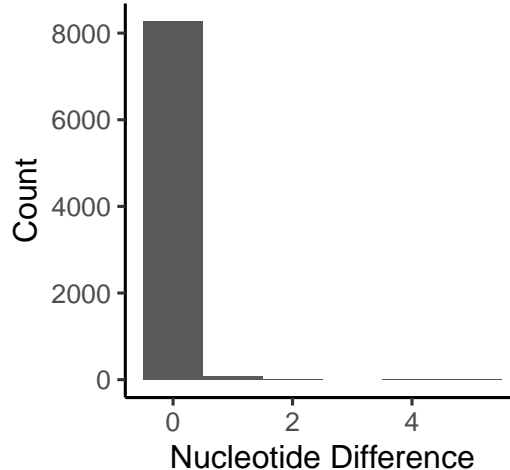
### TRBV9\*ap01

15574 sequences assigned  
15413 (99%) exact matches, in which:  
15143 unique CDR3  
13 unique J



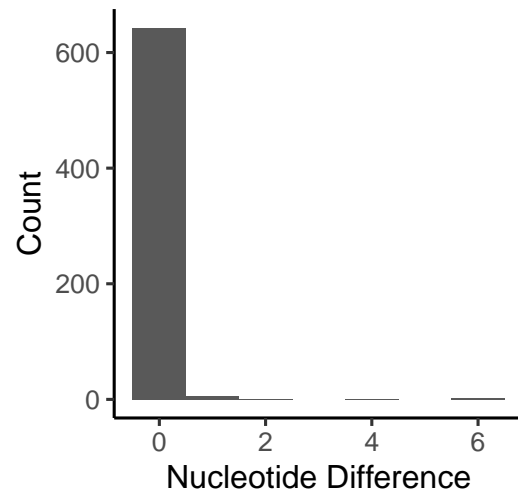
### TRBV11-2\*ap01

8345 sequences assigned  
8270 (99.1%) exact matches, in which:  
8139 unique CDR3  
13 unique J



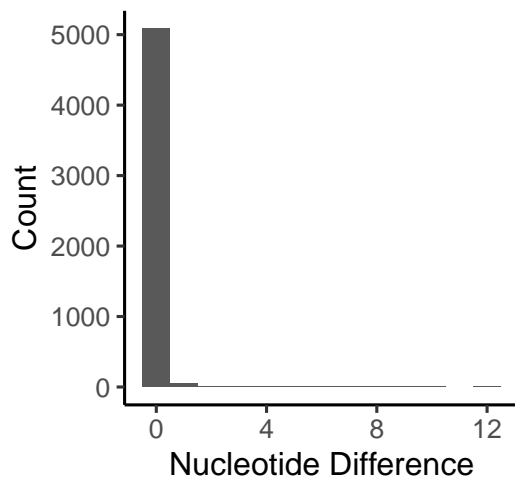
### TRBV12-2\*ap01

653 sequences assigned  
643 (98.5%) exact matches, in which:  
632 unique CDR3  
13 unique J



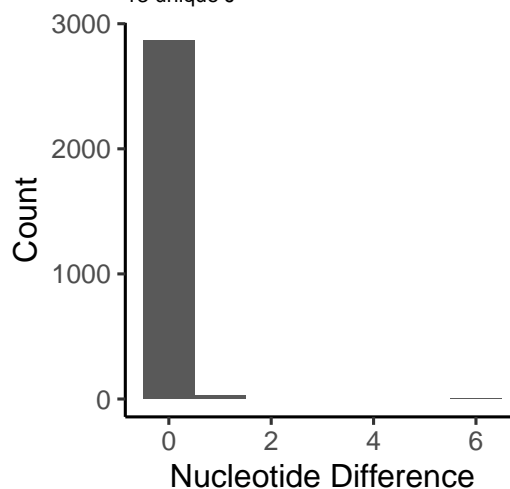
### TRBV21-1\*ap01

5166 sequences assigned  
5084 (98.4%) exact matches, in which:  
5007 unique CDR3  
13 unique J



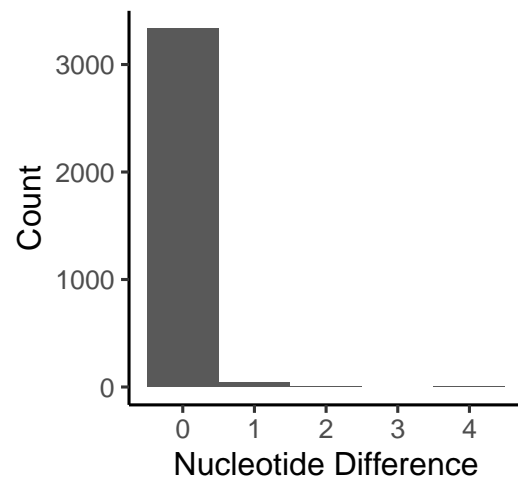
### TRBV11-3\*ap01

2890 sequences assigned  
2864 (99.1%) exact matches, in which:  
2814 unique CDR3  
13 unique J



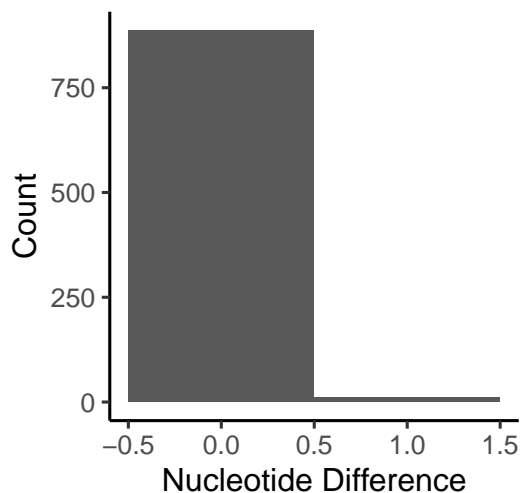
### TRBV12-5\*ap01

3376 sequences assigned  
3333 (98.7%) exact matches, in which:  
3274 unique CDR3  
13 unique J



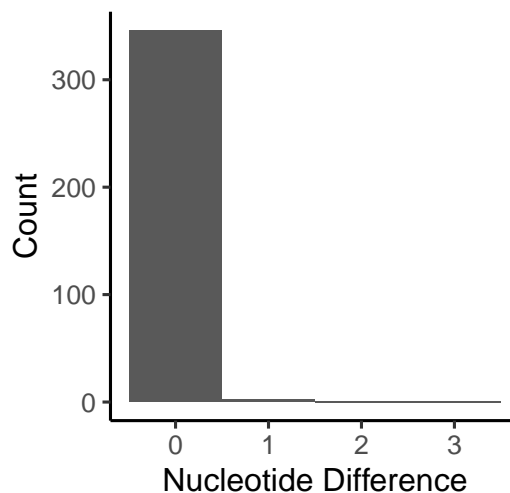
### TRBV11-1\*ap01

897 sequences assigned  
887 (98.9%) exact matches, in which:  
878 unique CDR3  
13 unique J



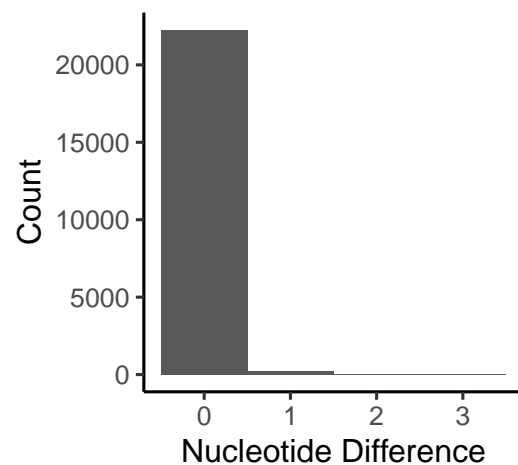
### TRBV12-1\*ap01

350 sequences assigned  
346 (98.9%) exact matches, in which:  
340 unique CDR3  
13 unique J



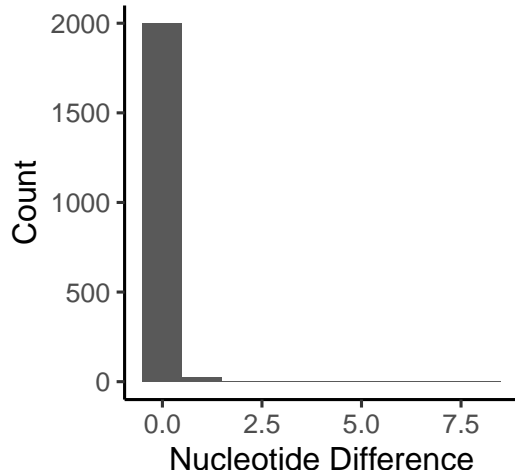
### TRBV12-34\*ap01

22512 sequences assigned  
22267 (98.9%) exact matches, in which:  
21858 unique CDR3  
13 unique J



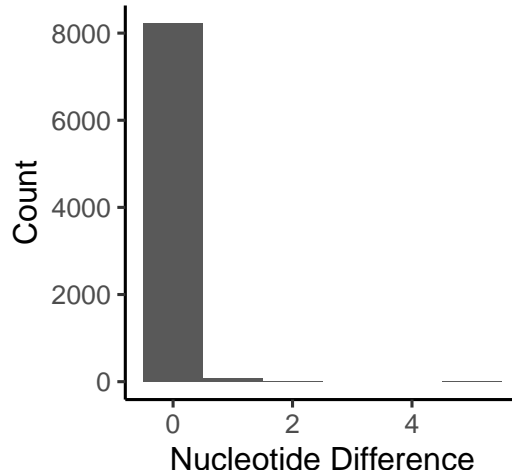
### TRBV23-1\*ap01

2039 sequences assigned  
1999 (98%) exact matches, in which:  
1967 unique CDR3  
13 unique J



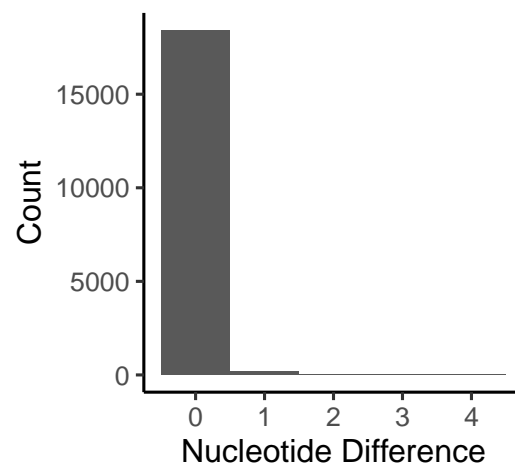
### TRBV4-1\*ap01

8311 sequences assigned  
8223 (98.9%) exact matches, in which:  
8052 unique CDR3  
13 unique J



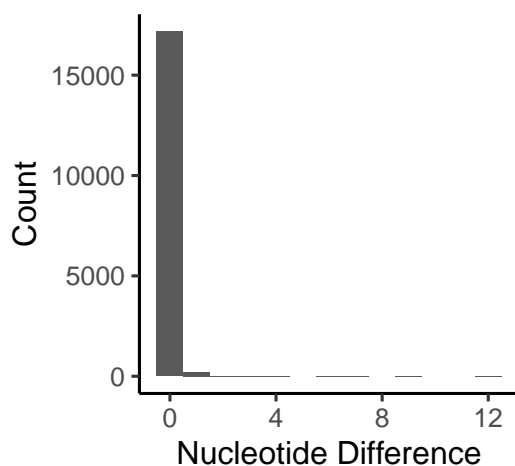
### TRBV5-1\*ap01

18641 sequences assigned  
18423 (98.8%) exact matches, in which:  
17957 unique CDR3  
13 unique J



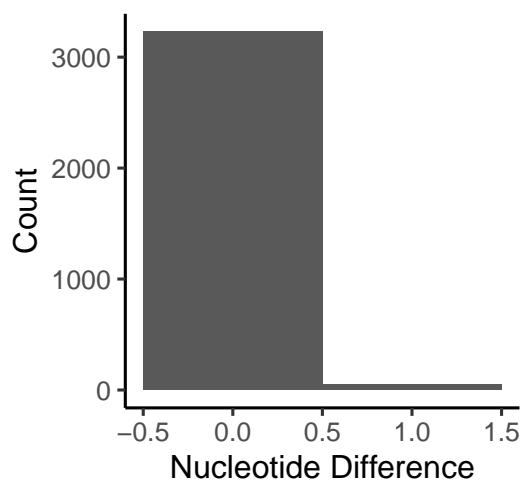
### TRBV3-12\*ap01

17405 sequences assigned  
17177 (98.7%) exact matches, in which:  
16840 unique CDR3  
13 unique J



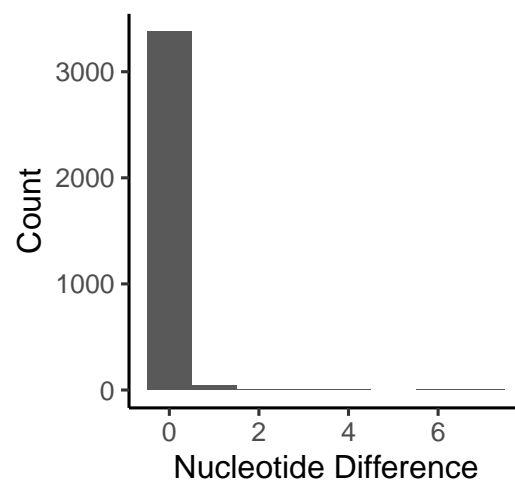
### TRBV4-2\*ap01

3279 sequences assigned  
3229 (98.5%) exact matches, in which:  
3180 unique CDR3  
13 unique J



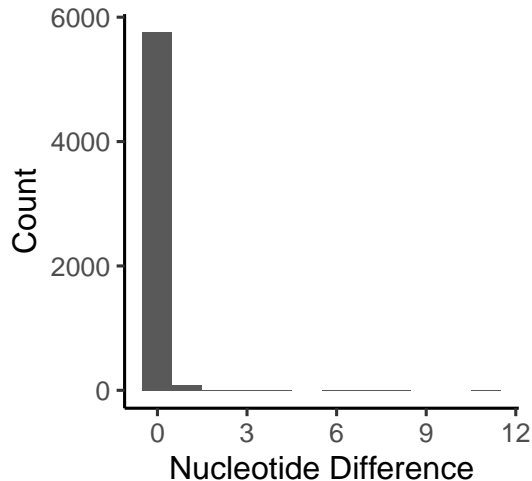
### TRBV25-1\*ap01

3422 sequences assigned  
3377 (98.7%) exact matches, in which:  
3304 unique CDR3  
13 unique J



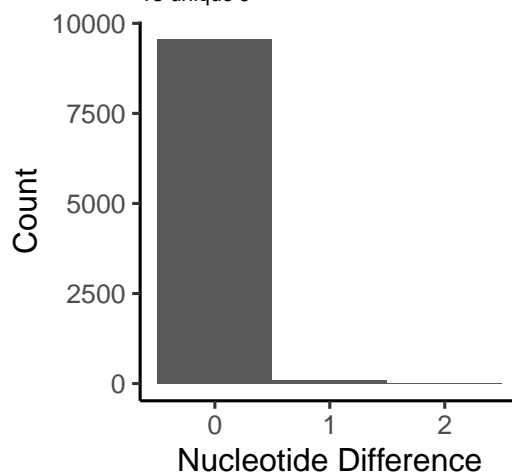
### TRBV24-1\*ap01

5862 sequences assigned  
5761 (98.3%) exact matches, in which:  
5678 unique CDR3  
13 unique J



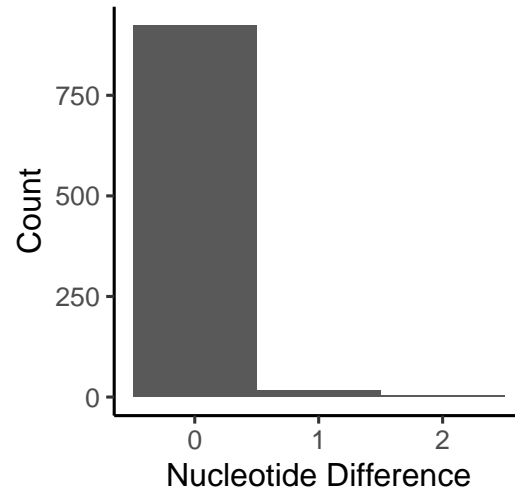
### TRBV4-3\*ap01

9683 sequences assigned  
9571 (98.8%) exact matches, in which:  
9404 unique CDR3  
13 unique J



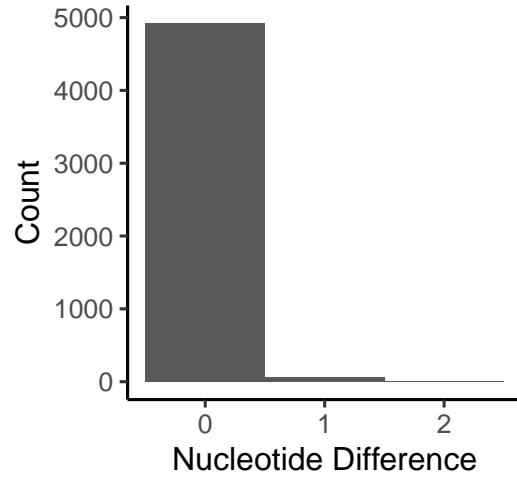
### TRBV5-3\*ap01

945 sequences assigned  
924 (97.8%) exact matches, in which:  
907 unique CDR3  
13 unique J



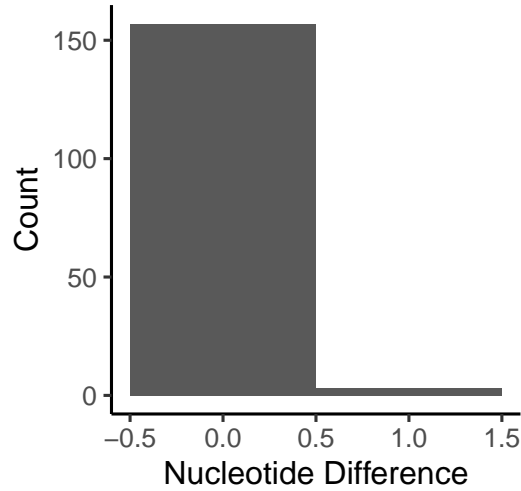
### TRBV5-4\*ap01

4981 sequences assigned  
4920 (98.8%) exact matches, in which:  
4815 unique CDR3  
13 unique J



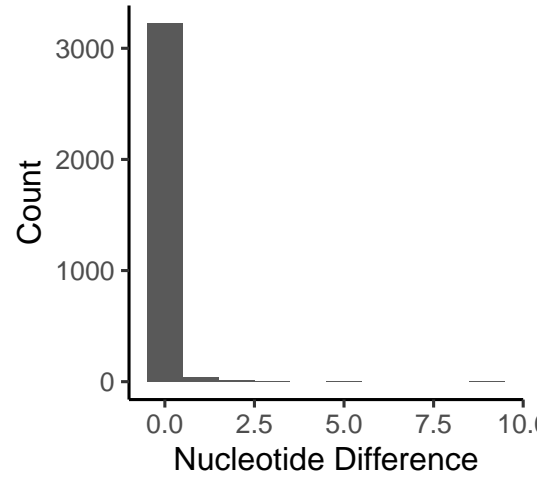
### TRBV5-7\*ap01

160 sequences assigned  
157 (98.1%) exact matches, in which:  
156 unique CDR3  
13 unique J



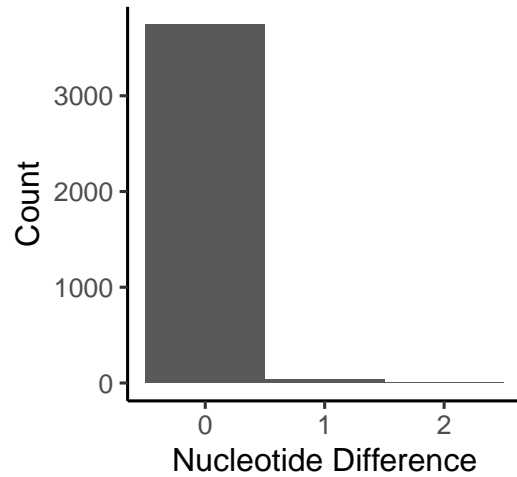
### TRBV6-4\*ap01

3278 sequences assigned  
3224 (98.4%) exact matches, in which:  
3174 unique CDR3  
13 unique J



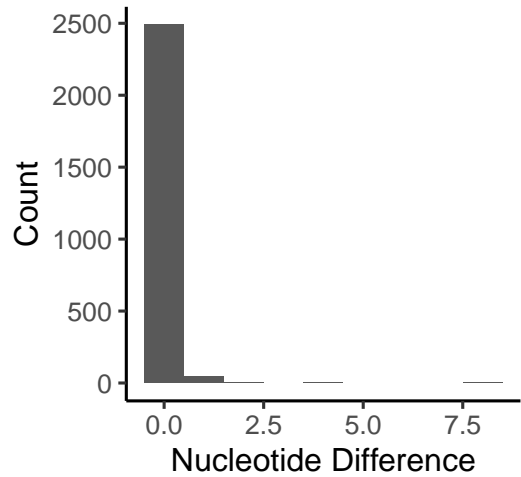
### TRBV5-5\*ap01

3776 sequences assigned  
3742 (99.1%) exact matches, in which:  
3703 unique CDR3  
13 unique J



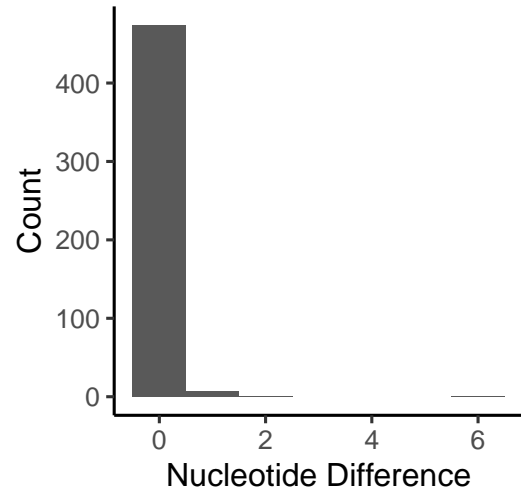
### TRBV5-8\*ap01

2540 sequences assigned  
2490 (98%) exact matches, in which:  
2454 unique CDR3  
13 unique J



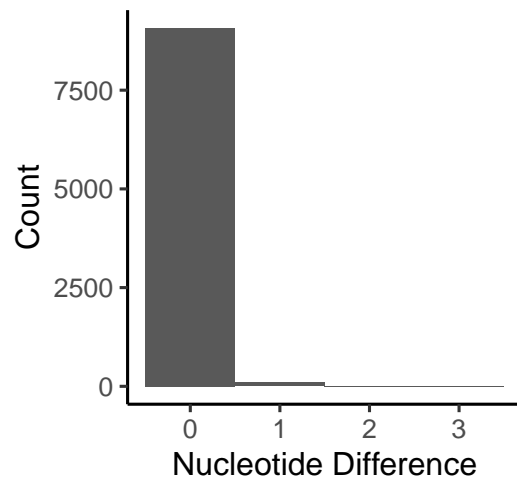
### TRBV6-7\*ap01

483 sequences assigned  
474 (98.1%) exact matches, in which:  
469 unique CDR3  
13 unique J



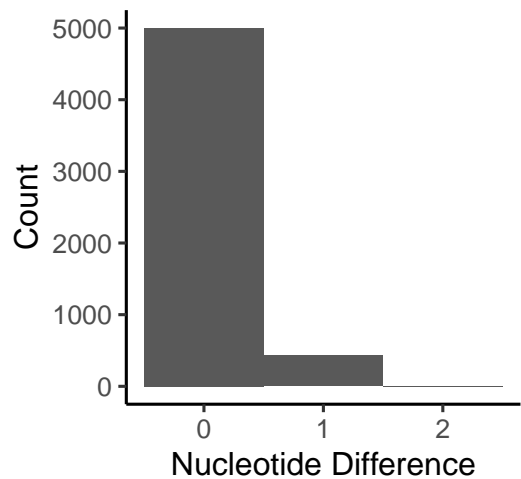
### TRBV5-6\*ap01

9174 sequences assigned  
9074 (98.9%) exact matches, in which:  
8857 unique CDR3  
13 unique J



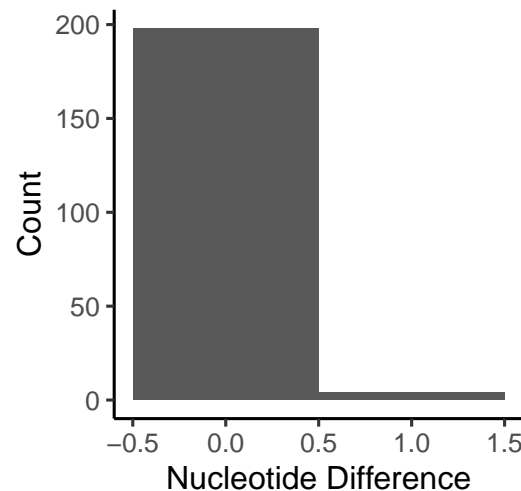
### TRBV6-1\*ap01

5435 sequences assigned  
5000 (92%) exact matches, in which:  
4892 unique CDR3  
13 unique J



### TRBV6-8\*ap01

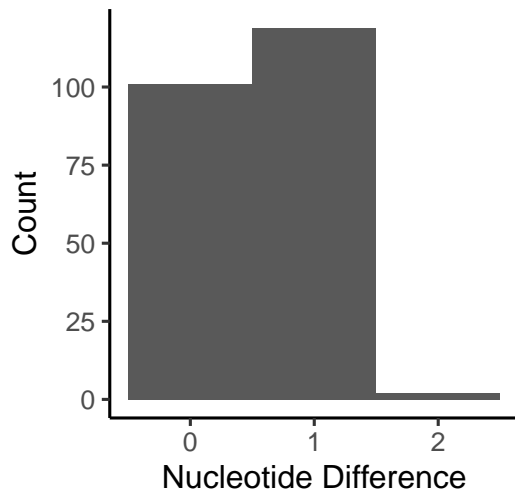
202 sequences assigned  
198 (98%) exact matches, in which:  
193 unique CDR3  
13 unique J





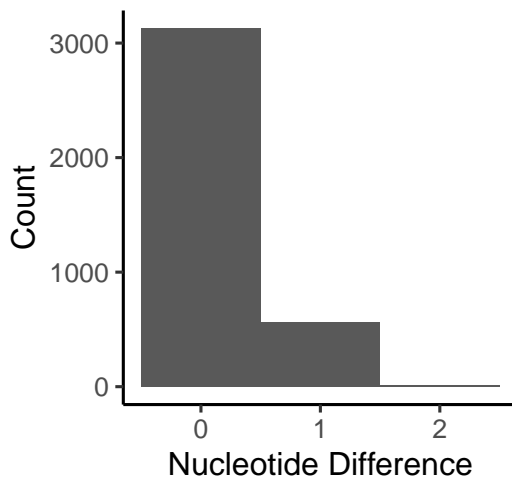
### TRBV6-9\*ap01

222 sequences assigned  
101 (45.5%) exact matches, in which:  
98 unique CDR3  
13 unique J



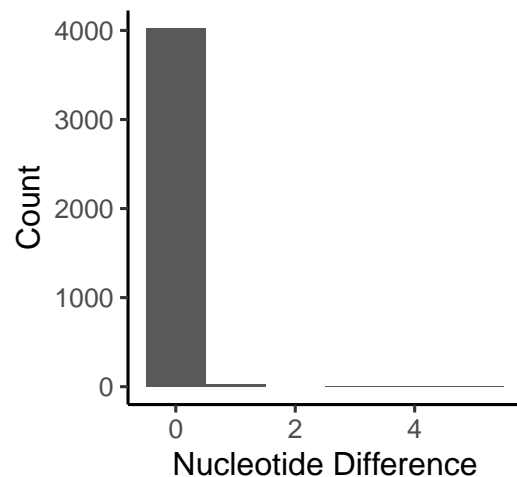
### TRBV6-56\*ap02

3703 sequences assigned  
3128 (84.5%) exact matches, in which:  
3072 unique CDR3  
13 unique J



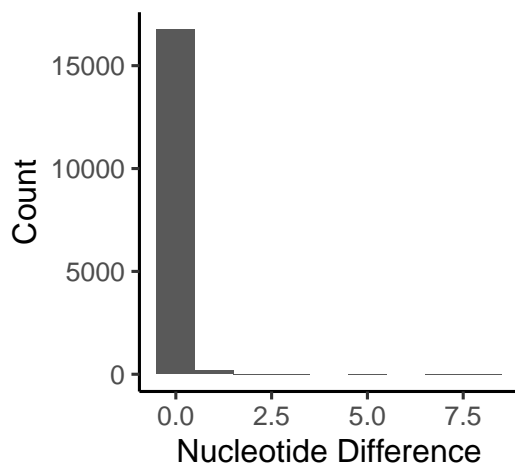
### TRBV7-3\*ap01

4055 sequences assigned  
4023 (99.2%) exact matches, in which:  
3979 unique CDR3  
13 unique J



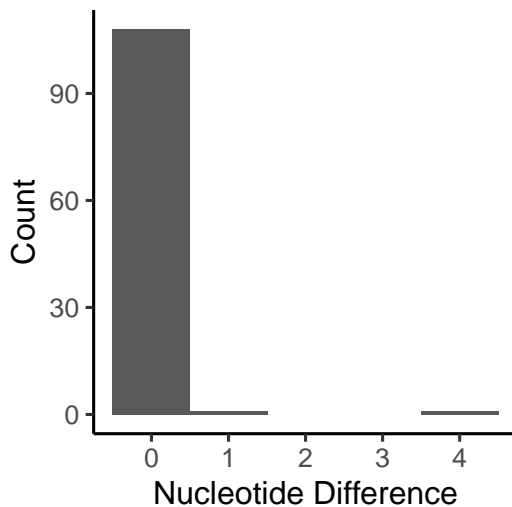
### TRBV6-23\*ap01

16951 sequences assigned  
16760 (98.9%) exact matches, in which:  
16411 unique CDR3  
13 unique J



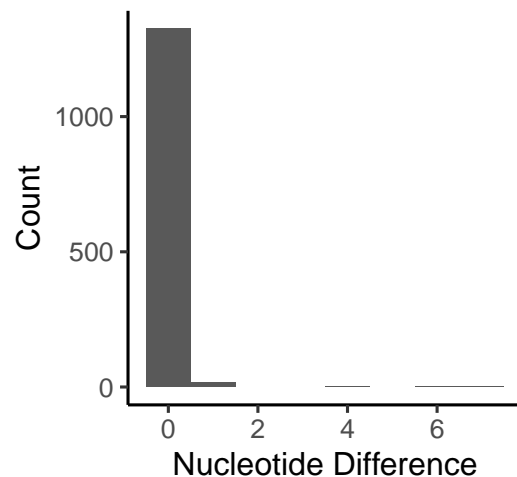
### TRBV7-1\*ap01\_G291C\_T

110 sequences assigned  
108 (98.2%) exact matches, in which:  
107 unique CDR3  
13 unique J



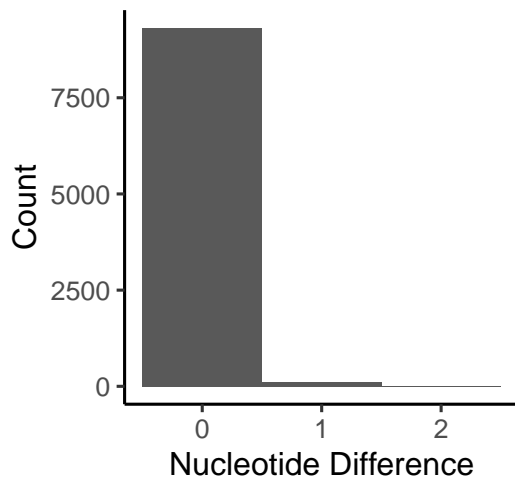
### TRBV7-3\*ap02

1344 sequences assigned  
1325 (98.6%) exact matches, in which:  
1305 unique CDR3  
13 unique J



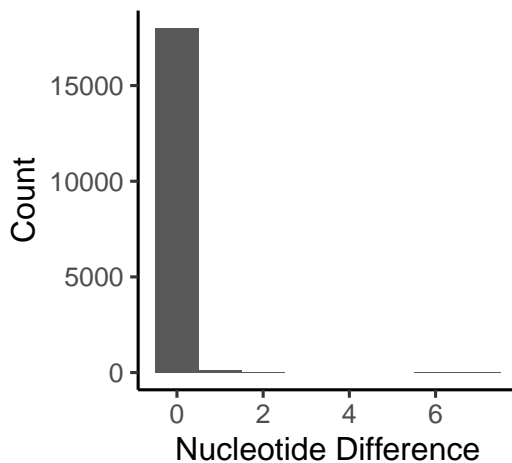
### TRBV6-56\*ap01

9421 sequences assigned  
9312 (98.8%) exact matches, in which:  
9091 unique CDR3  
13 unique J



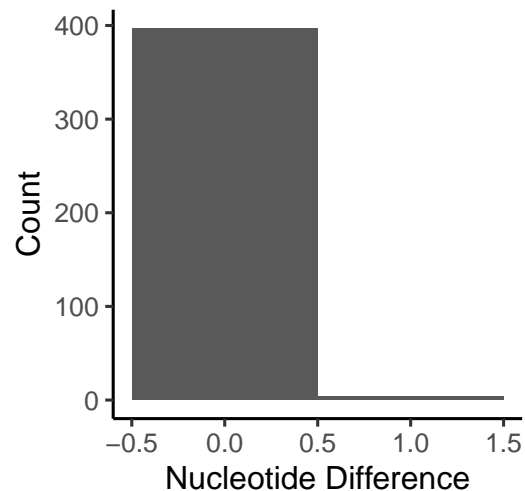
### TRBV7-2\*ap01

18158 sequences assigned  
18020 (99.2%) exact matches, in which:  
17727 unique CDR3  
13 unique J



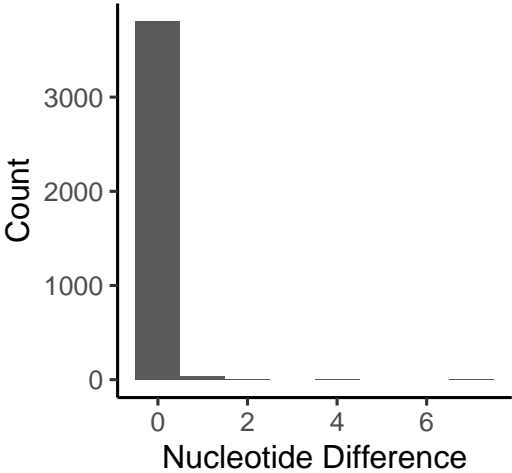
### TRBV7-4\*ap01

401 sequences assigned  
397 (99%) exact matches, in which:  
392 unique CDR3  
13 unique J



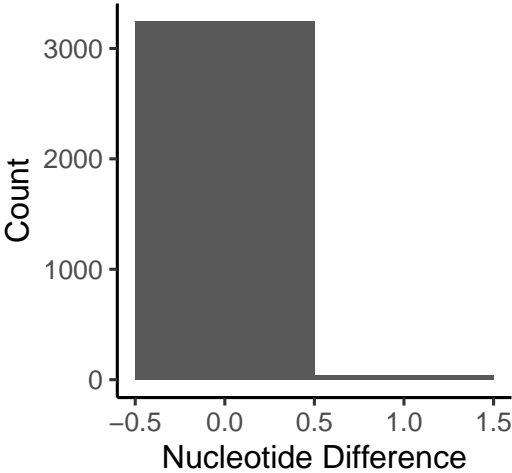
TRBV7-6\*ap01

3840 sequences assigned  
3804 (99.1%) exact matches, in which:  
3721 unique CDR3  
13 unique J



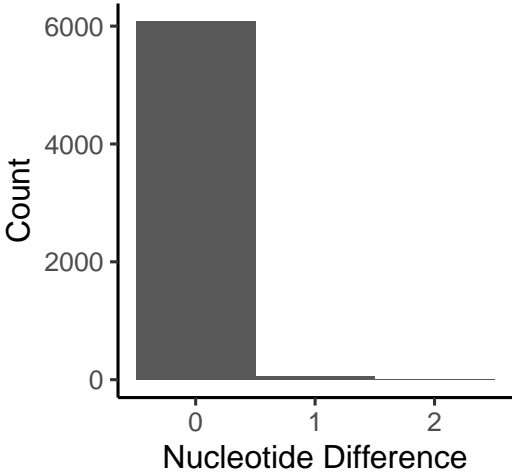
TRBV7-8\*ap01

3284 sequences assigned  
3245 (98.8%) exact matches, in which:  
3182 unique CDR3  
13 unique J



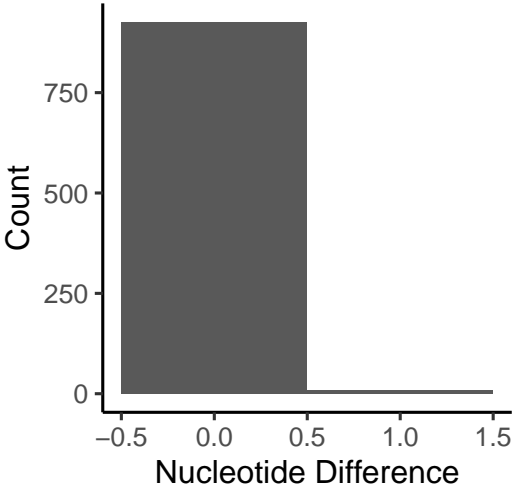
TRBV29-1\*ap01

6142 sequences assigned  
6080 (99%) exact matches, in which:  
5984 unique CDR3  
13 unique J



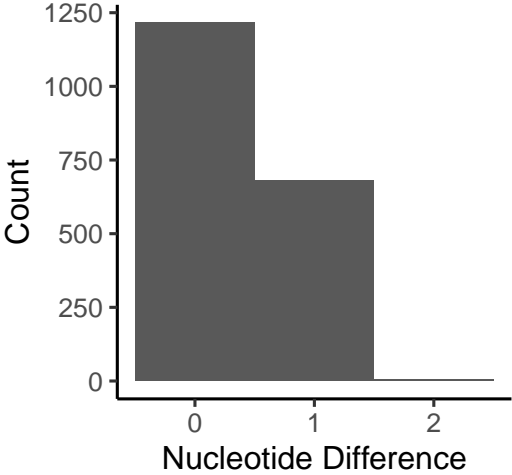
TRBV7-7\*ap01

934 sequences assigned  
926 (99.1%) exact matches, in which:  
915 unique CDR3  
13 unique J



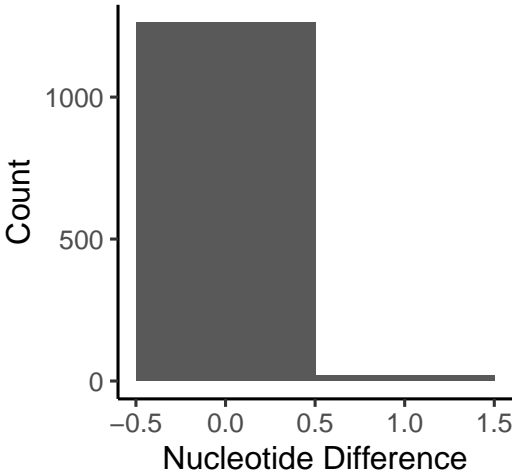
TRBV7-8\*ap03

1902 sequences assigned  
1216 (63.9%) exact matches, in which:  
1190 unique CDR3  
13 unique J



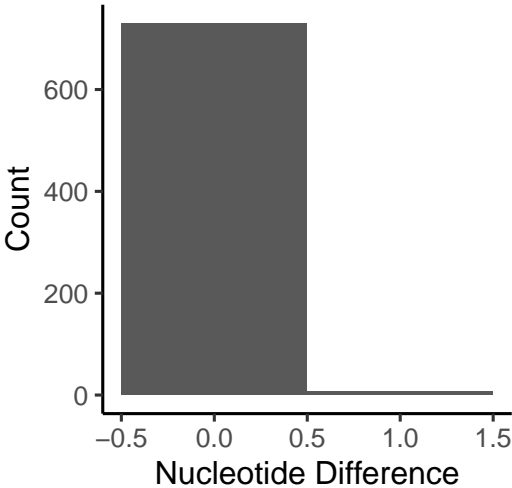
TRBV29-1\*ap02

1281 sequences assigned  
1262 (98.5%) exact matches, in which:  
1242 unique CDR3  
13 unique J



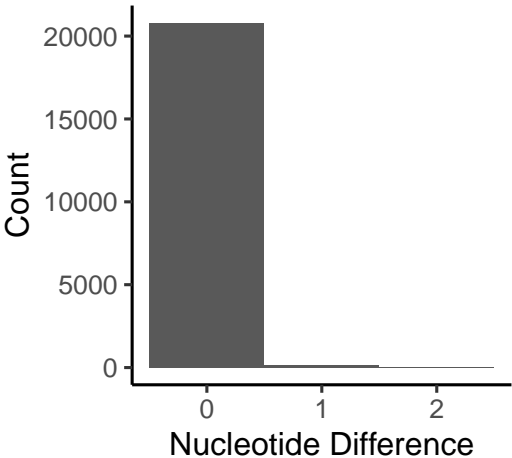
TRBV7-7\*ap01\_C315T

737 sequences assigned  
730 (99.1%) exact matches, in which:  
715 unique CDR3  
13 unique J

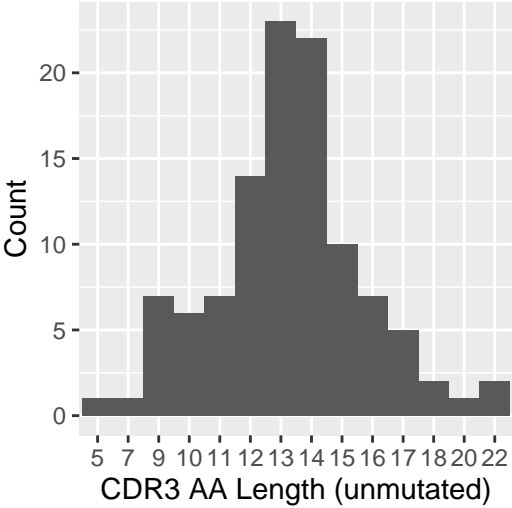


TRBV7-9\*ap01

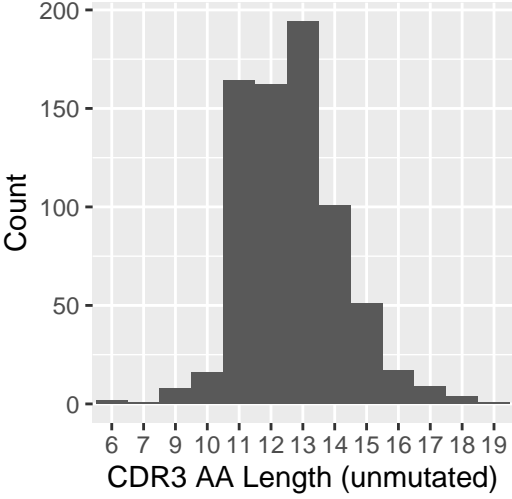
20959 sequences assigned  
20802 (99.3%) exact matches, in which:  
20556 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]