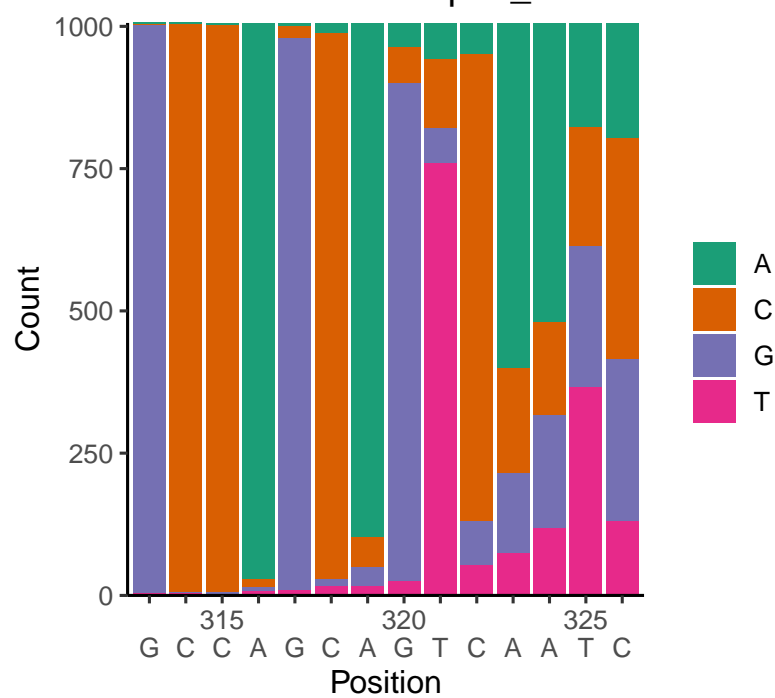
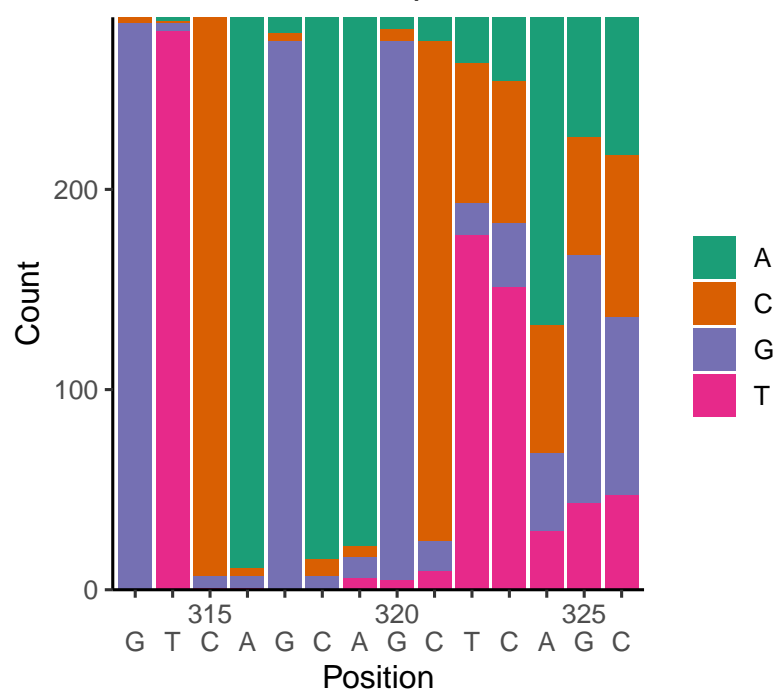


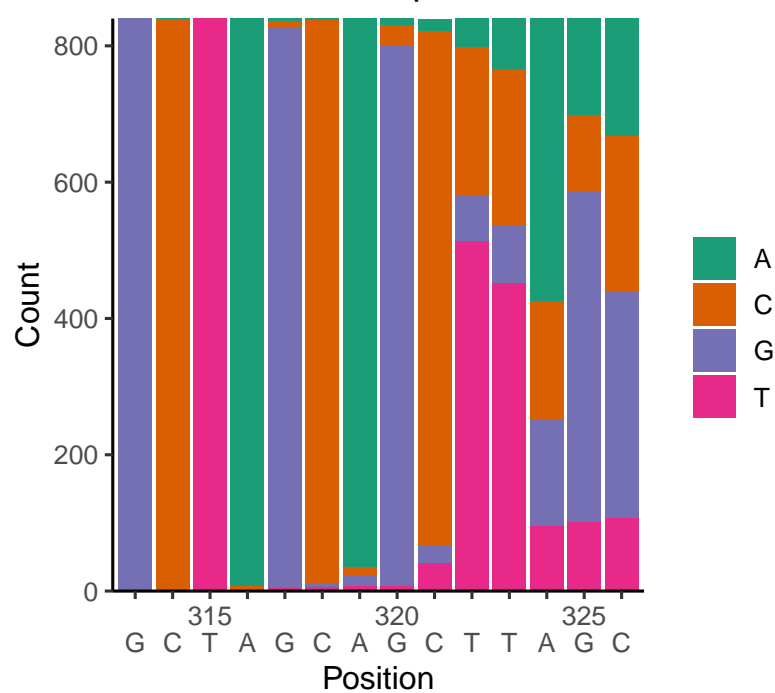
Gene TRBV23-1\*ap01\_T304C



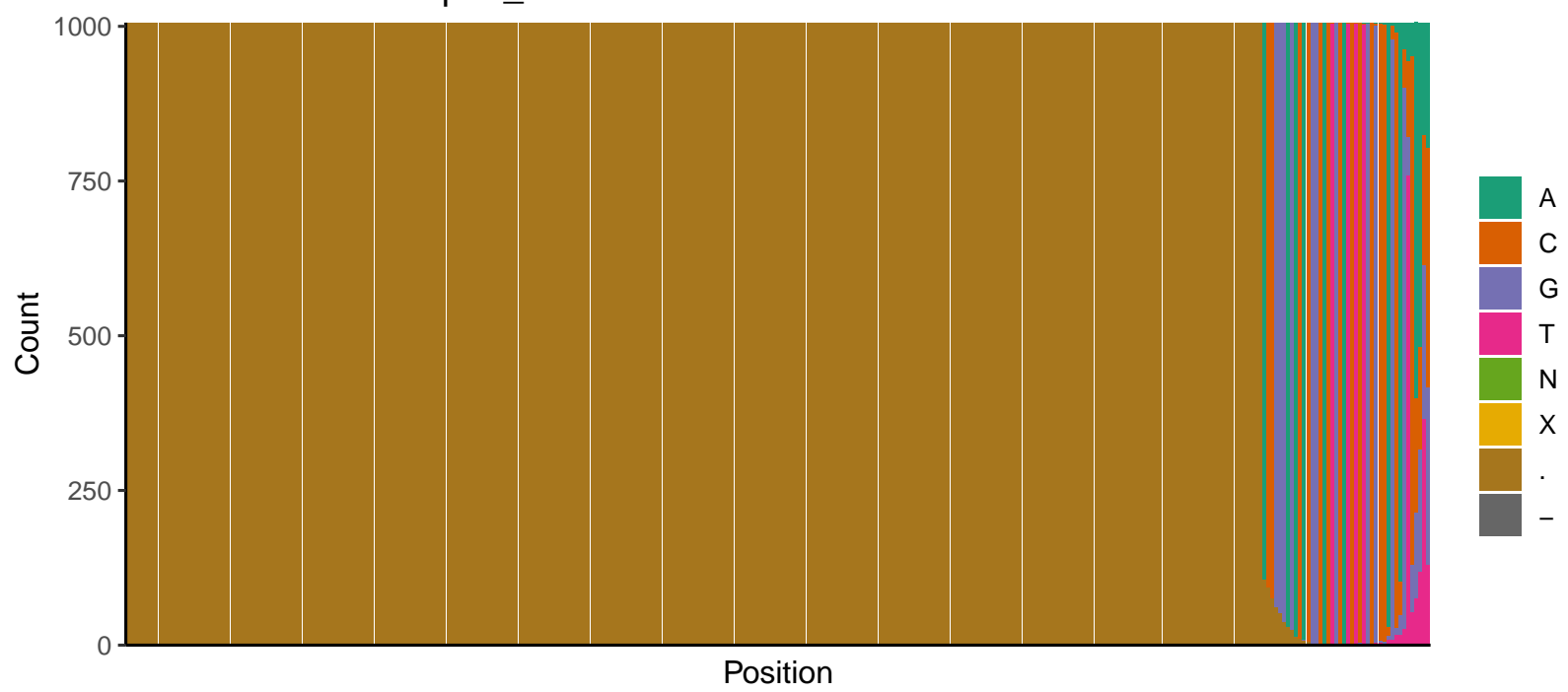
Gene TRBV7-1\*ap01\_T296C\_C314T



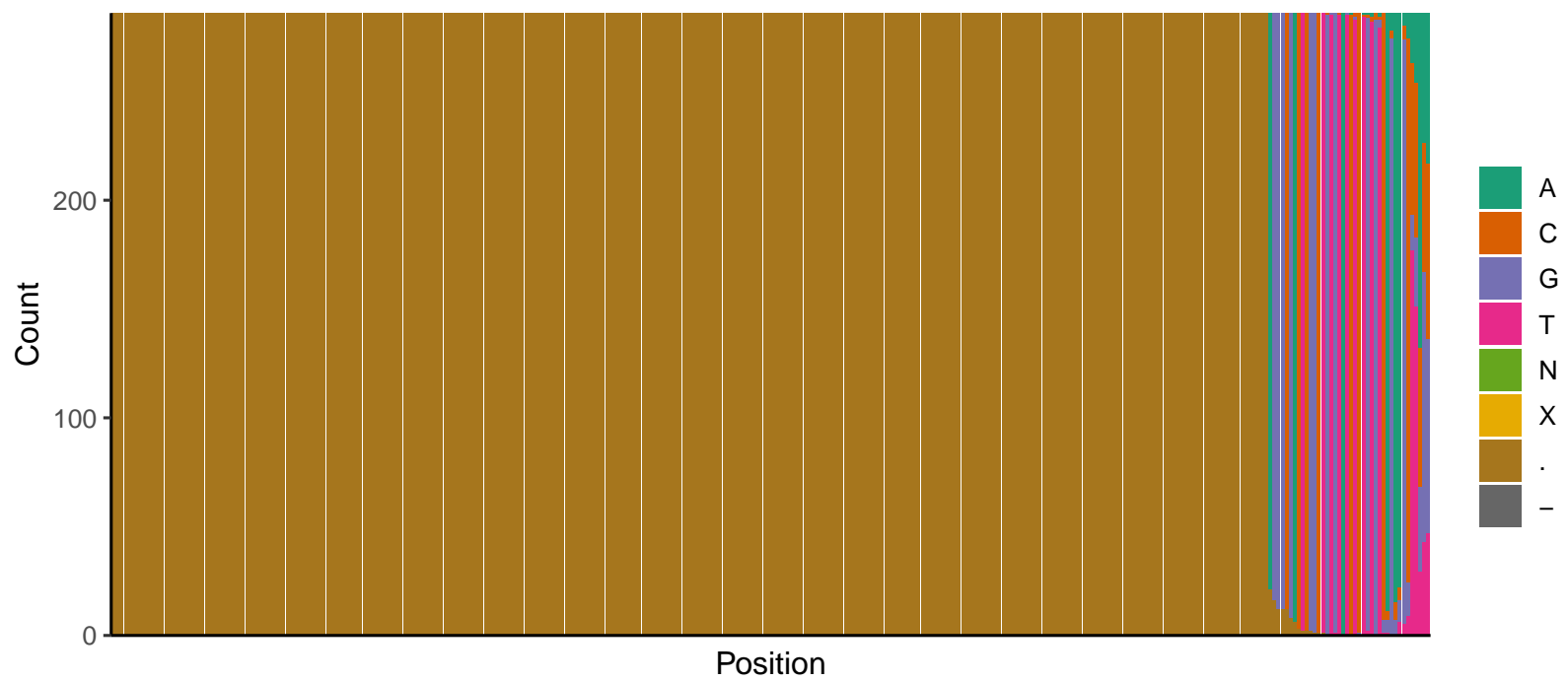
Gene TRBV7-7\*ap01\_C315T



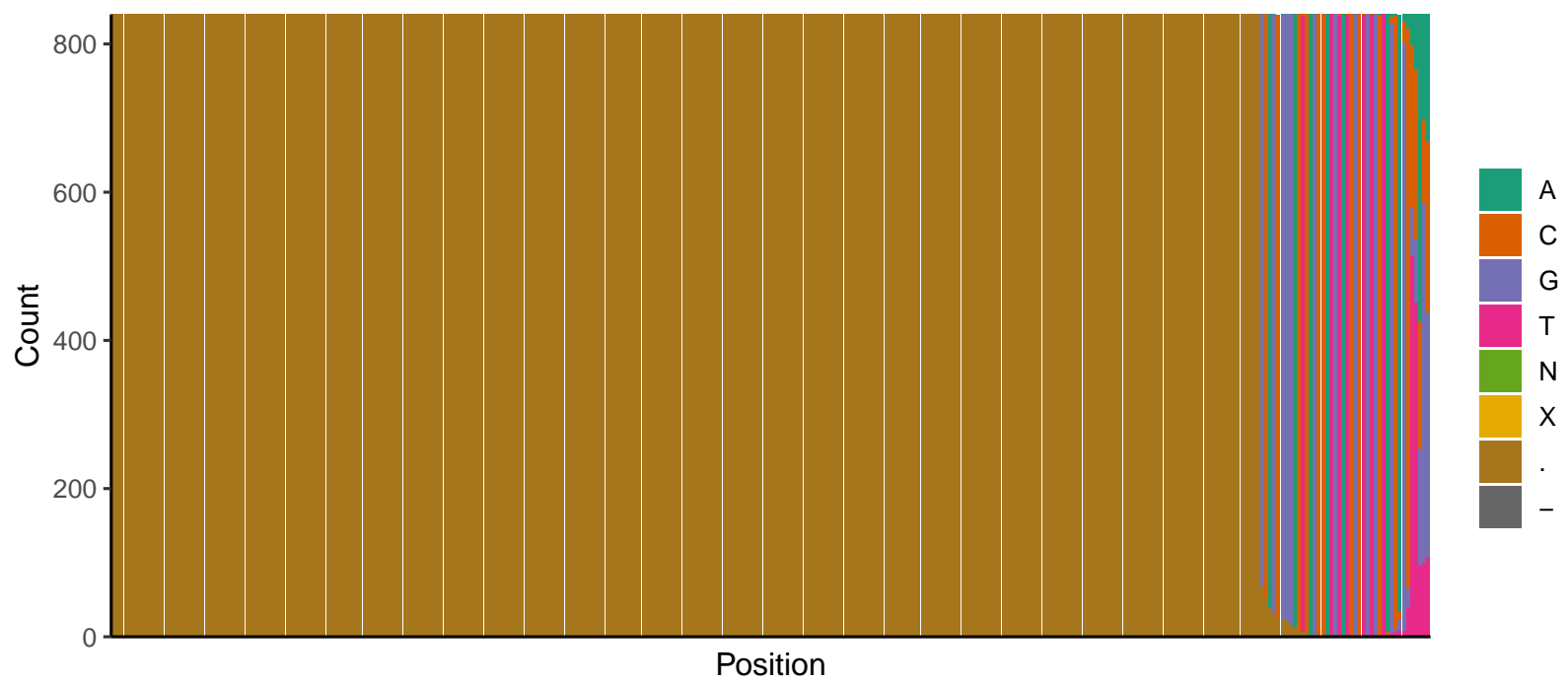
Gene TRBV23-1\*ap01\_T304C



Gene TRBV7-1\*ap01\_T296C\_C314T



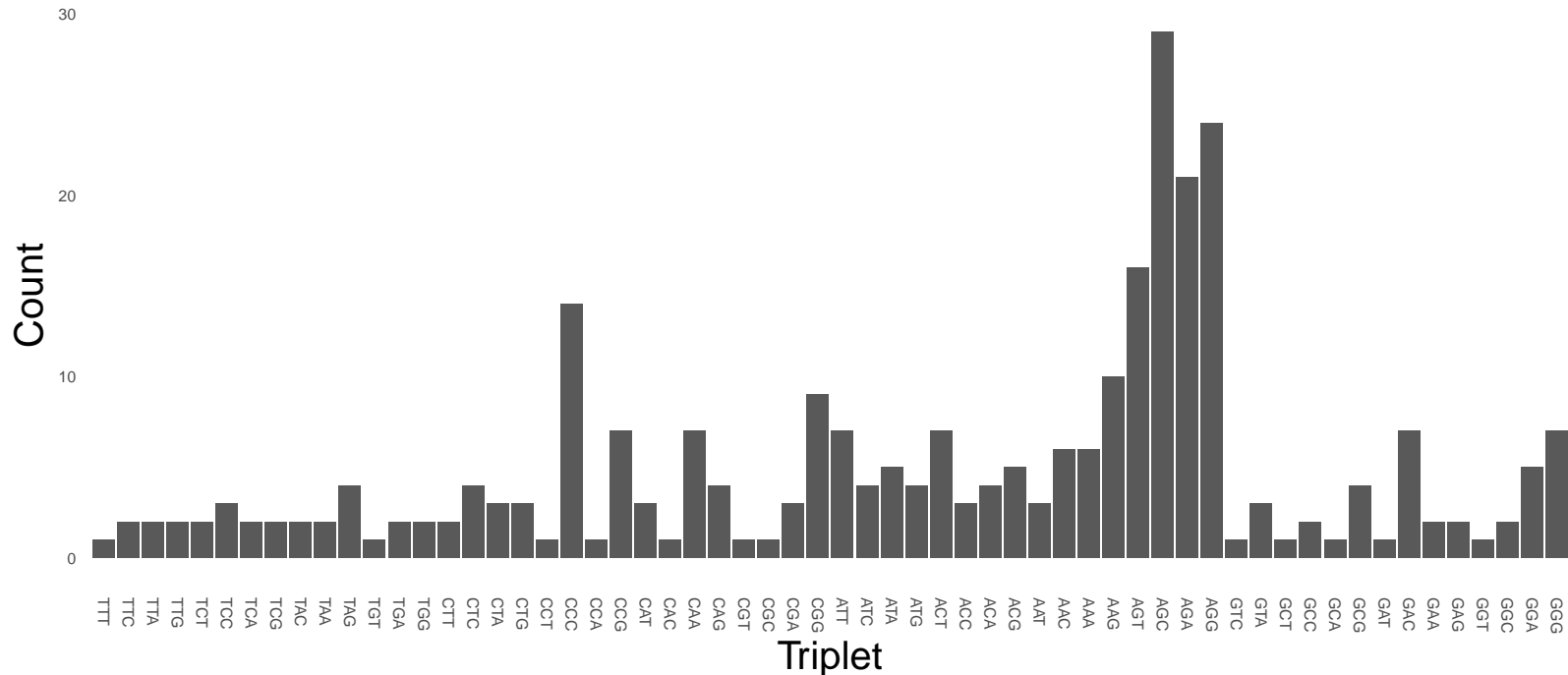
Gene TRBV7-7\*ap01\_C315T



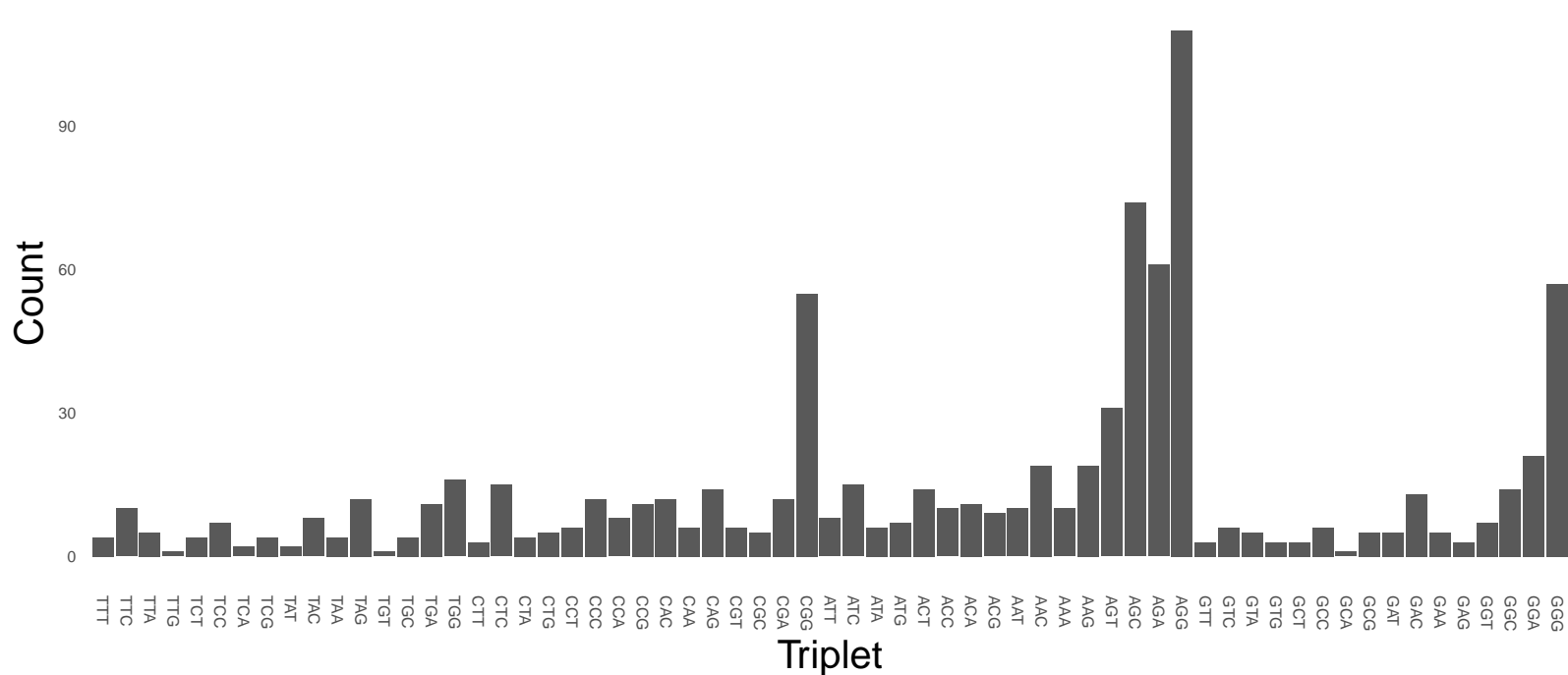
TRBV23–1\*ap01\_T304C– Final 3 nucleotides as a triplet



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

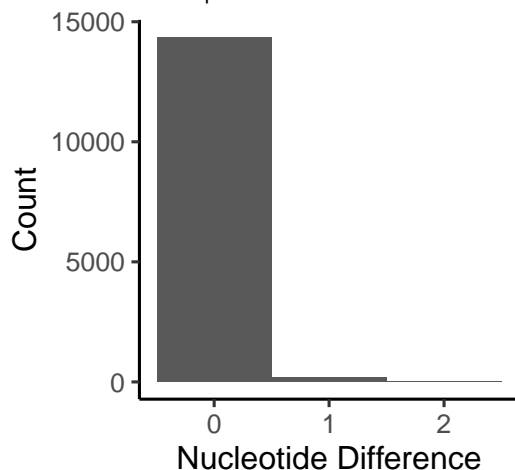


TRBV7–7\*ap01\_C315T– Final 3 nucleotides as a triplet



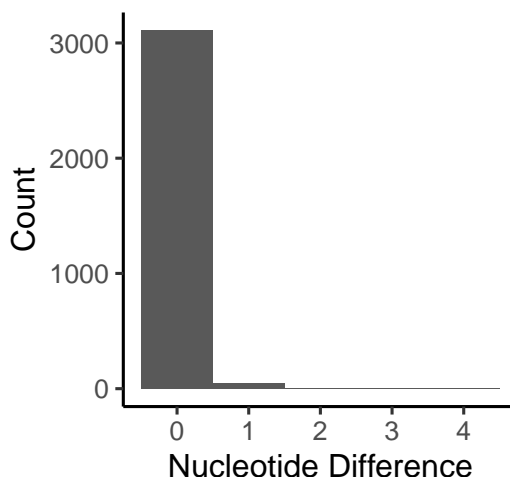
### TRBV20-1\*ap01

14564 sequences assigned  
14358 (98.6%) exact matches, in which:  
13992 unique CDR3  
13 unique J



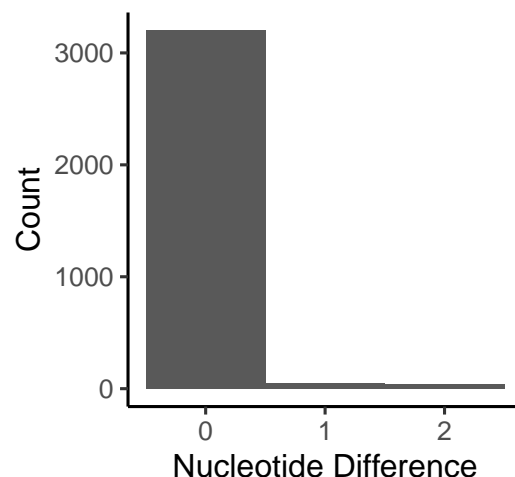
### TRBV10-2\*ap01

3157 sequences assigned  
3109 (98.5%) exact matches, in which:  
3037 unique CDR3  
13 unique J



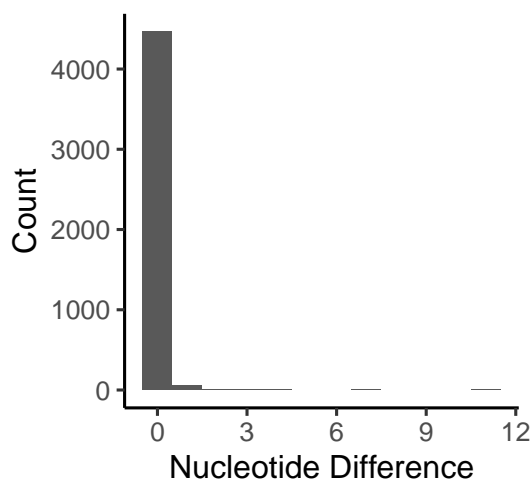
### TRBV13\*ap01

3288 sequences assigned  
3201 (97.4%) exact matches, in which:  
3065 unique CDR3  
13 unique J



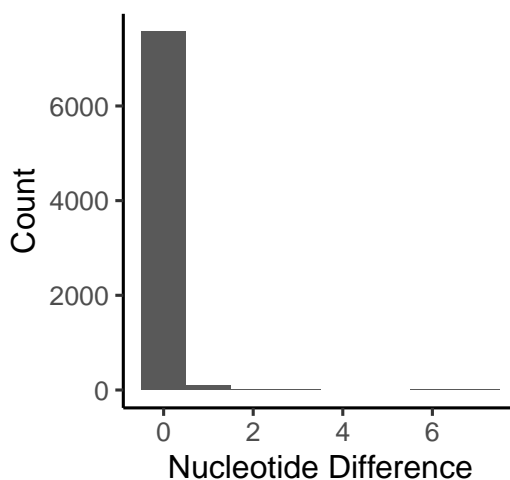
### TRBV10-1\*ap01

4532 sequences assigned  
4465 (98.5%) exact matches, in which:  
4311 unique CDR3  
13 unique J



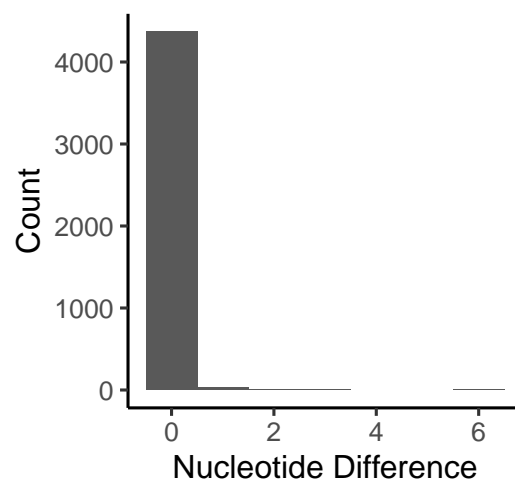
### TRBV10-3\*ap01

7678 sequences assigned  
7568 (98.6%) exact matches, in which:  
7344 unique CDR3  
13 unique J



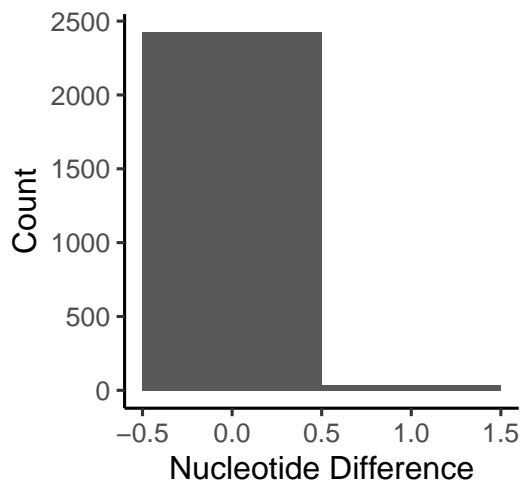
### TRBV14\*ap01

4407 sequences assigned  
4369 (99.1%) exact matches, in which:  
4270 unique CDR3  
13 unique J



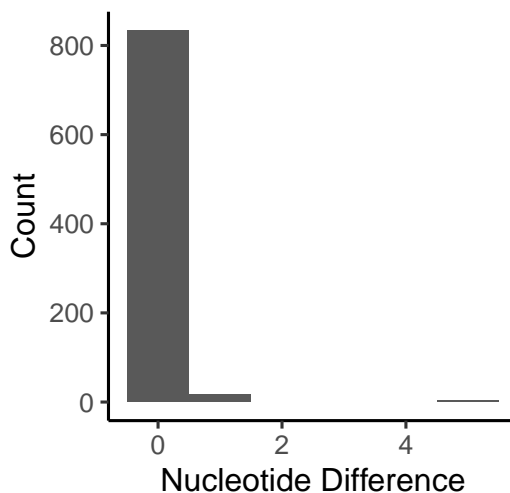
### TRBV20-1\*ap02

2462 sequences assigned  
2426 (98.5%) exact matches, in which:  
2375 unique CDR3  
13 unique J



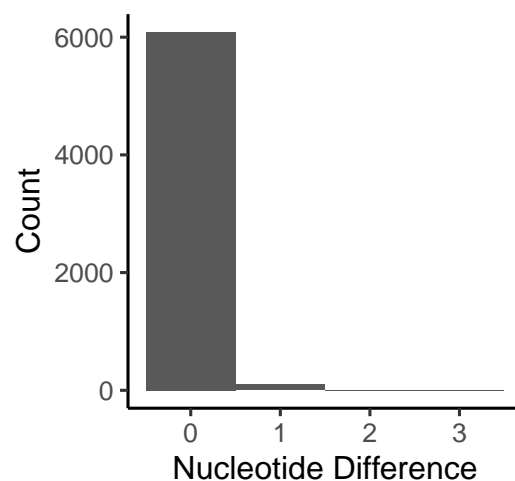
### TRBV1\*ap01

855 sequences assigned  
834 (97.5%) exact matches, in which:  
805 unique CDR3  
13 unique J



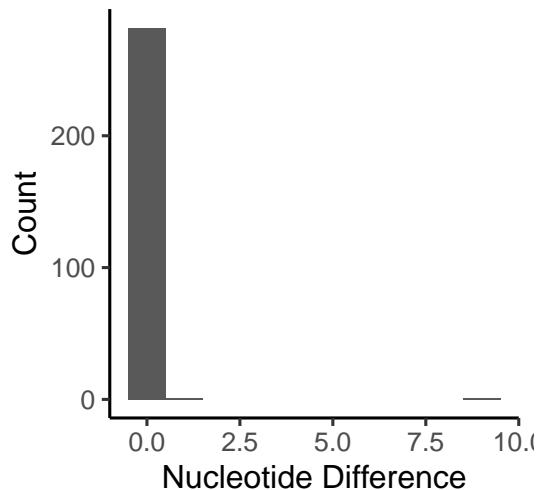
### TRBV15\*ap02

6187 sequences assigned  
6087 (98.4%) exact matches, in which:  
5877 unique CDR3  
13 unique J



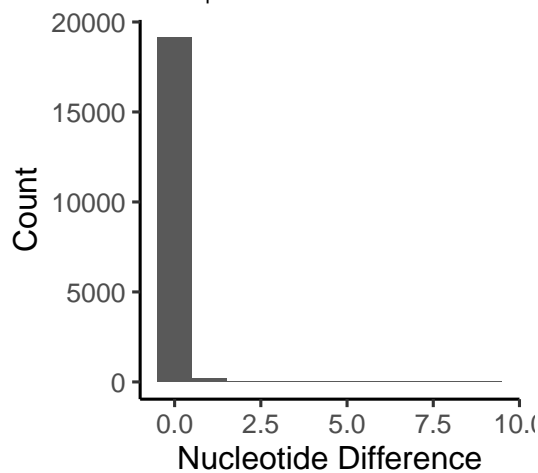
### TRBV16\*ap01

284 sequences assigned  
282 (99.3%) exact matches, in which:  
280 unique CDR3  
13 unique J



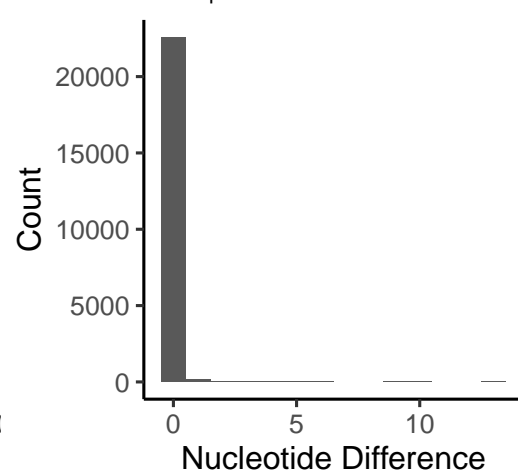
### TRBV19\*ap01

19384 sequences assigned  
19157 (98.8%) exact matches, in which:  
18868 unique CDR3  
13 unique J



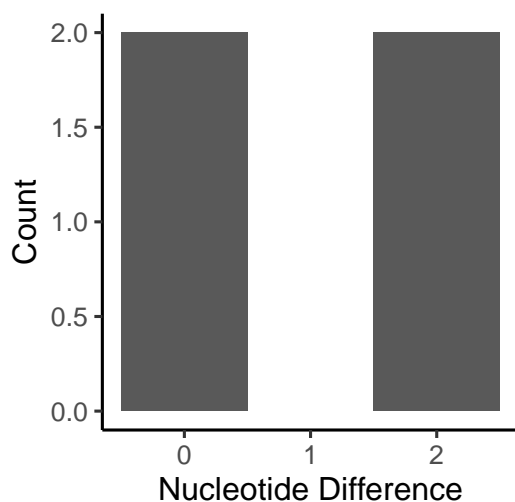
### TRBV27\*ap01

22800 sequences assigned  
22584 (99.1%) exact matches, in which:  
22189 unique CDR3  
13 unique J



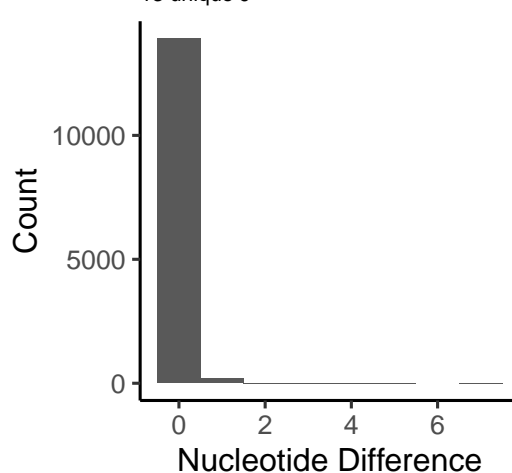
### TRBV17\*ap01

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



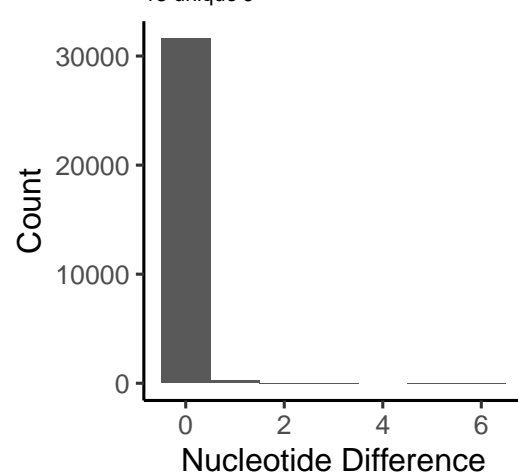
### TRBV2\*ap01

14120 sequences assigned  
13910 (98.5%) exact matches, in which:  
13520 unique CDR3  
13 unique J



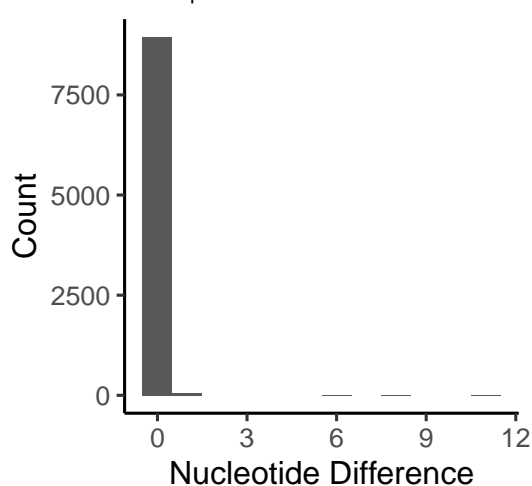
### TRBV28\*ap01

31876 sequences assigned  
31611 (99.2%) exact matches, in which:  
31181 unique CDR3  
13 unique J



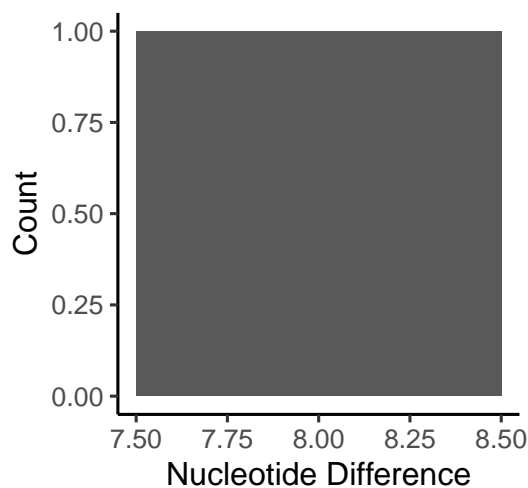
### TRBV18\*ap01

9012 sequences assigned  
8945 (99.3%) exact matches, in which:  
8837 unique CDR3  
13 unique J



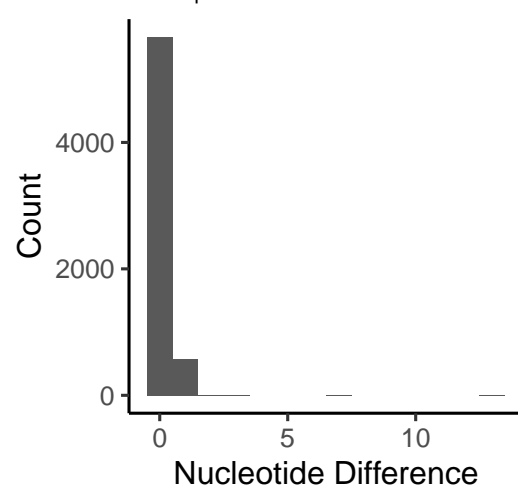
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



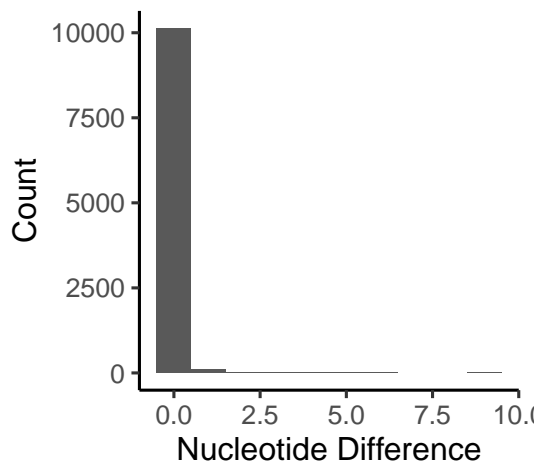
### TRBV30\*ap01

6258 sequences assigned  
5667 (90.6%) exact matches, in which:  
5454 unique CDR3  
13 unique J



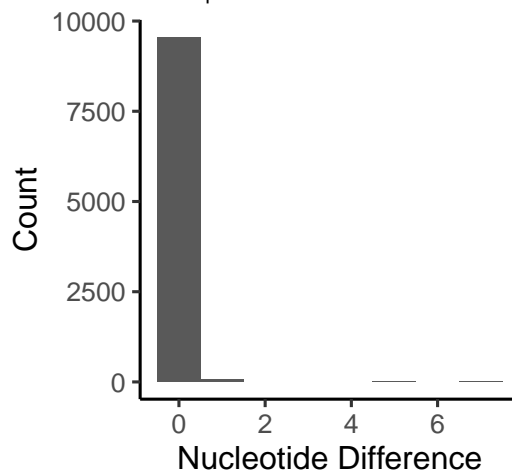
### TRBV9\*ap01

10247 sequences assigned  
10135 (98.9%) exact matches, in which:  
9953 unique CDR3  
13 unique J



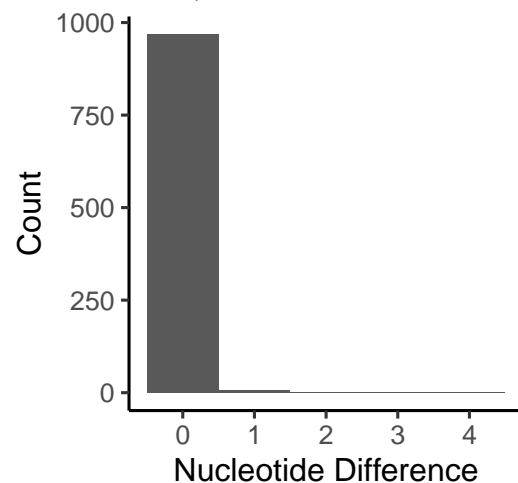
### TRBV11-2\*ap01

9625 sequences assigned  
9554 (99.3%) exact matches, in which:  
9353 unique CDR3  
13 unique J



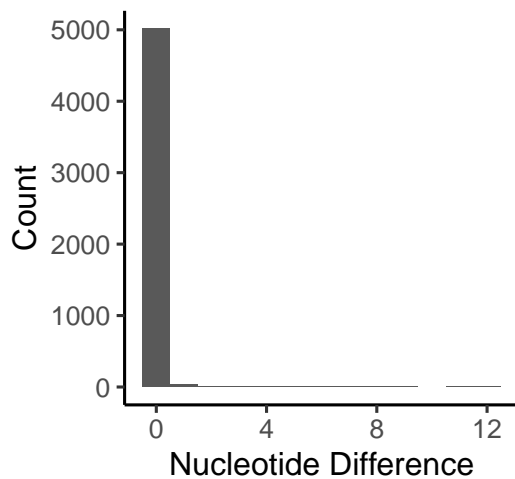
### TRBV12-2\*ap01

980 sequences assigned  
968 (98.8%) exact matches, in which:  
949 unique CDR3  
13 unique J



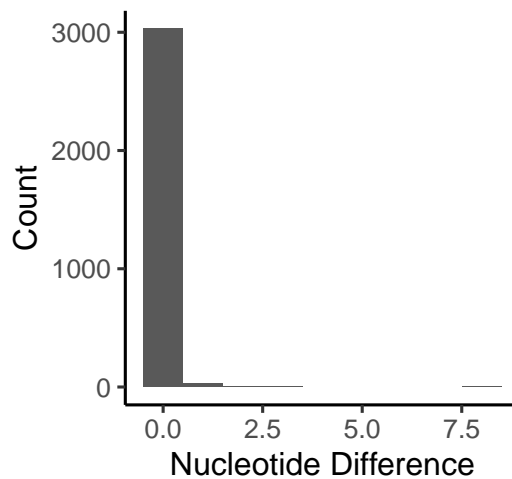
### TRBV21-1\*ap01

5085 sequences assigned  
5015 (98.6%) exact matches, in which:  
4977 unique CDR3  
13 unique J



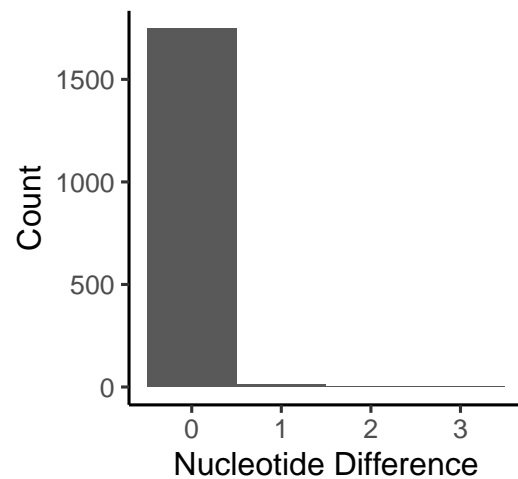
### TRBV11-3\*ap01

3061 sequences assigned  
3030 (99%) exact matches, in which:  
2973 unique CDR3  
13 unique J



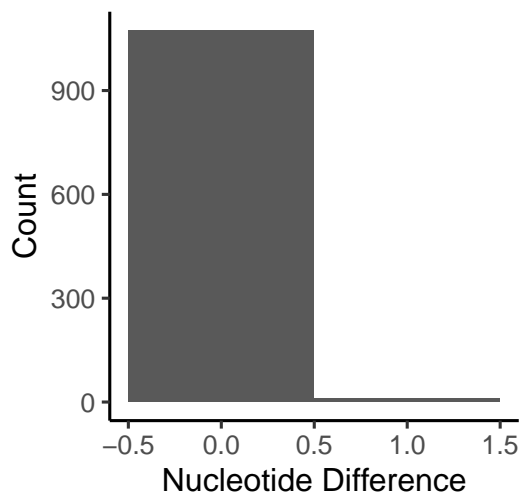
### TRBV12-5\*ap01

1767 sequences assigned  
1747 (98.9%) exact matches, in which:  
1716 unique CDR3  
14 unique J



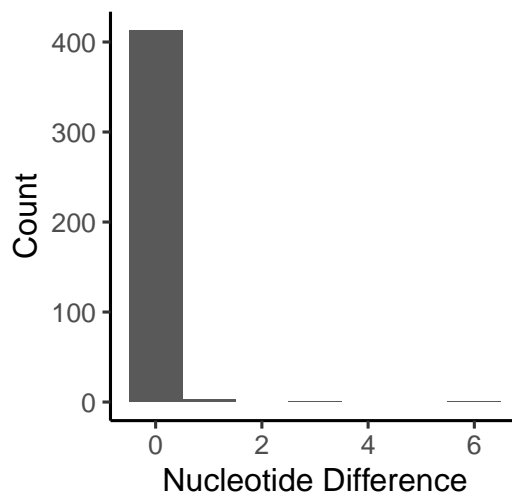
### TRBV11-1\*ap01

1085 sequences assigned  
1074 (99%) exact matches, in which:  
1053 unique CDR3  
13 unique J



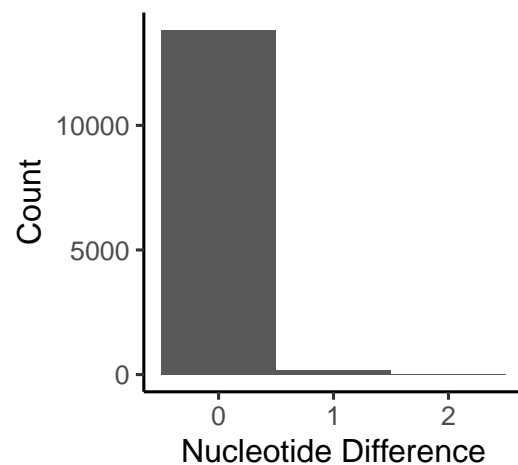
### TRBV12-1\*ap01

418 sequences assigned  
413 (98.8%) exact matches, in which:  
403 unique CDR3  
13 unique J



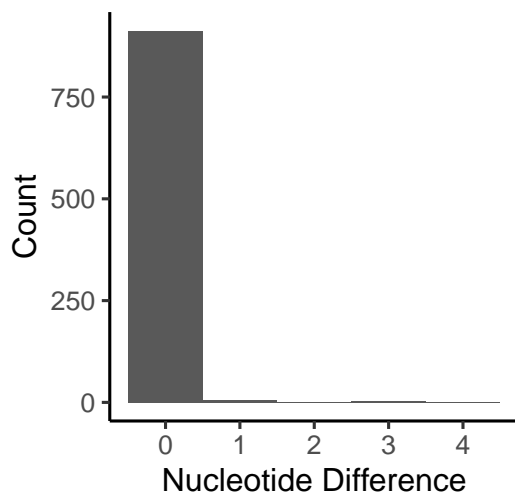
### TRBV12-34\*ap01

14005 sequences assigned  
13835 (98.8%) exact matches, in which:  
13496 unique CDR3  
13 unique J



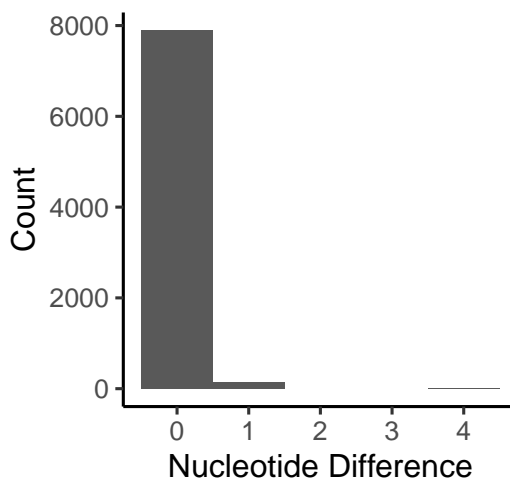
### TRBV23-1\*ap01

924 sequences assigned  
913 (98.8%) exact matches, in which:  
910 unique CDR3  
13 unique J



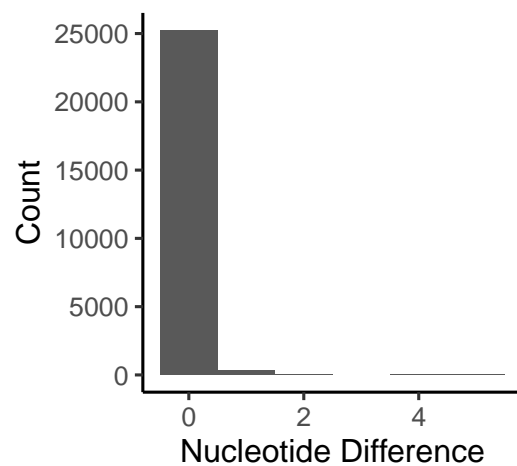
### TRBV4-1\*ap01

8027 sequences assigned  
7893 (98.3%) exact matches, in which:  
7606 unique CDR3  
13 unique J



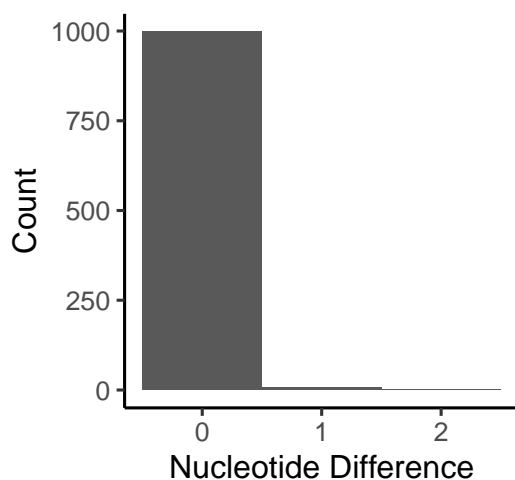
### TRBV5-1\*ap01

25586 sequences assigned  
25249 (98.7%) exact matches, in which:  
24397 unique CDR3  
13 unique J



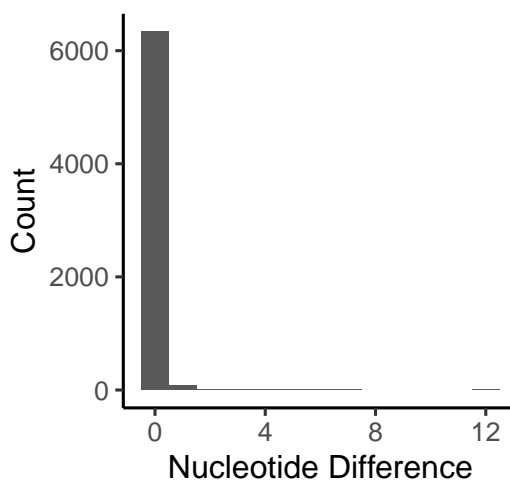
### TRBV23-1\*ap01\_T304C

1006 sequences assigned  
998 (99.2%) exact matches, in which:  
990 unique CDR3  
13 unique J



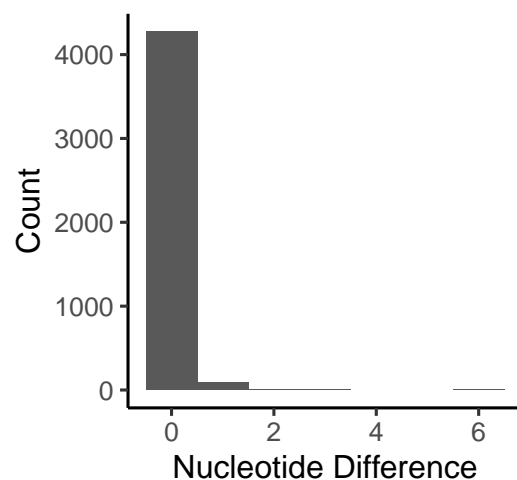
### TRBV24-1\*ap01

6438 sequences assigned  
6335 (98.4%) exact matches, in which:  
6209 unique CDR3  
13 unique J



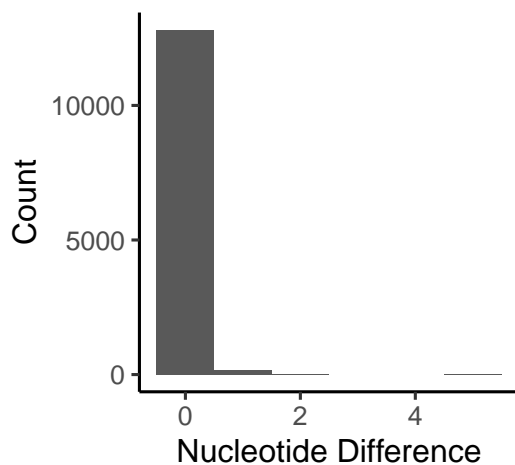
### TRBV25-1\*ap01

4375 sequences assigned  
4273 (97.7%) exact matches, in which:  
4141 unique CDR3  
13 unique J



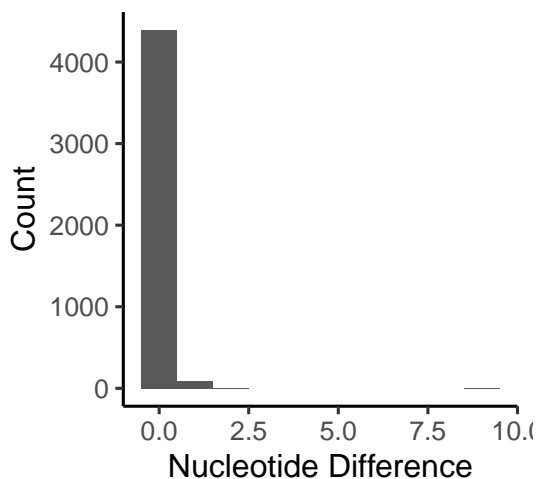
### TRBV3-12\*ap01

12984 sequences assigned  
12810 (98.7%) exact matches, in which:  
12491 unique CDR3  
13 unique J



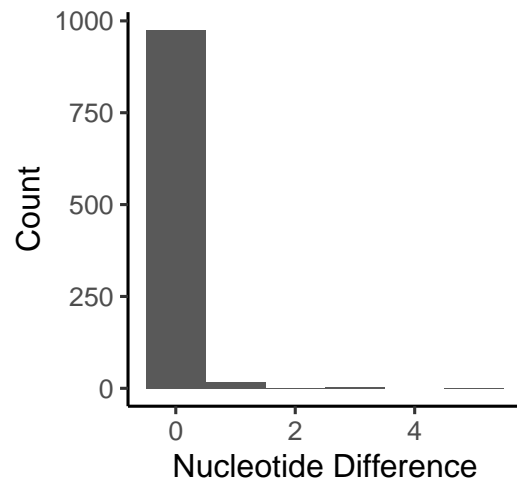
### TRBV4-2\*ap01

4483 sequences assigned  
4392 (98%) exact matches, in which:  
4234 unique CDR3  
13 unique J



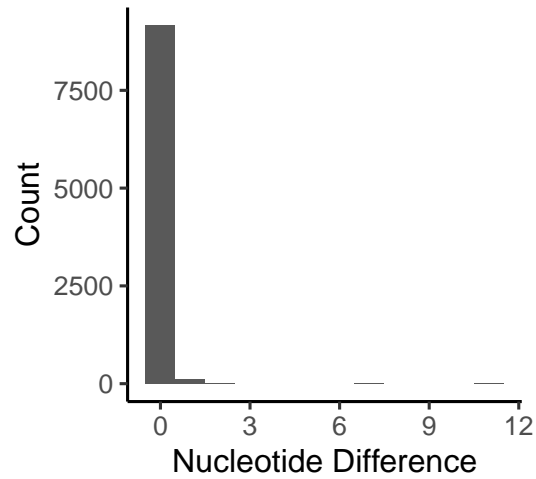
### TRBV5-3\*ap01

998 sequences assigned  
975 (97.7%) exact matches, in which:  
949 unique CDR3  
13 unique J



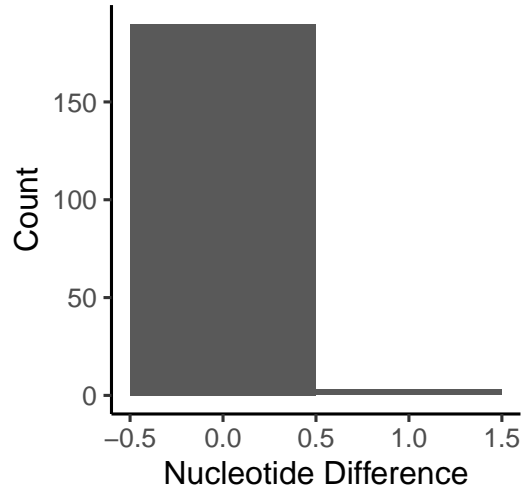
### TRBV5-4\*ap01

9273 sequences assigned  
9160 (98.8%) exact matches, in which:  
8904 unique CDR3  
13 unique J



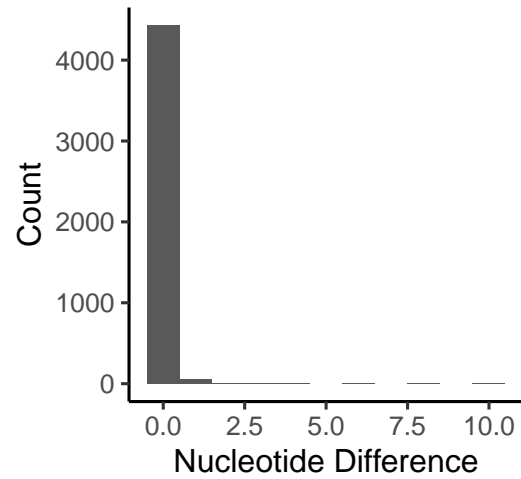
### TRBV5-7\*ap01

193 sequences assigned  
190 (98.4%) exact matches, in which:  
179 unique CDR3  
13 unique J



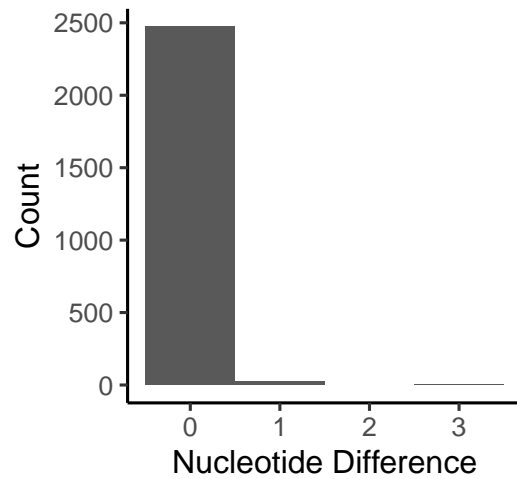
### TRBV6-4\*ap01

4501 sequences assigned  
4429 (98.4%) exact matches, in which:  
4341 unique CDR3  
13 unique J



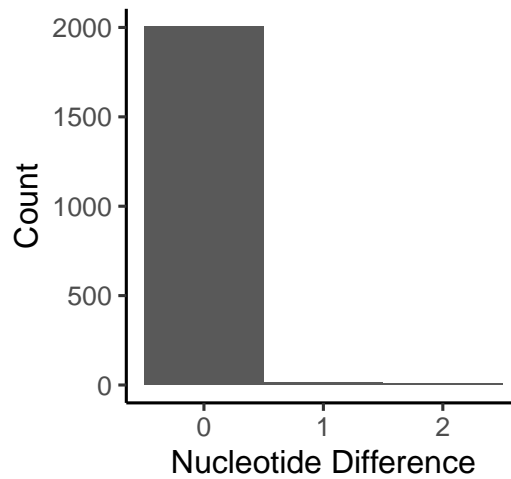
### TRBV5-5\*ap01

2496 sequences assigned  
2473 (99.1%) exact matches, in which:  
2448 unique CDR3  
13 unique J



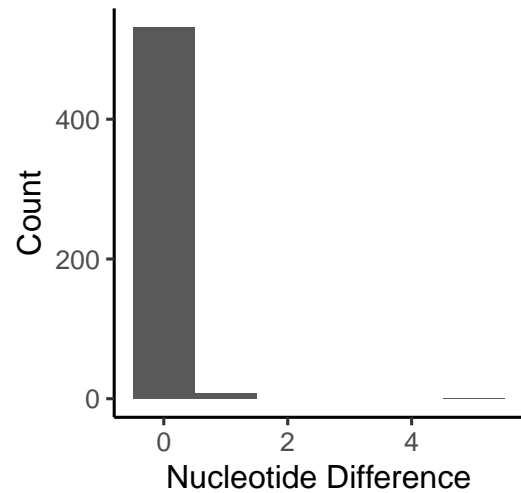
### TRBV5-8\*ap01

2022 sequences assigned  
2004 (99.1%) exact matches, in which:  
1980 unique CDR3  
13 unique J



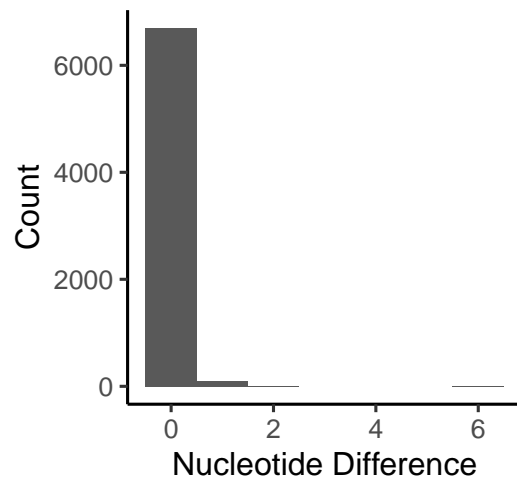
### TRBV6-7\*ap01

541 sequences assigned  
532 (98.3%) exact matches, in which:  
519 unique CDR3  
13 unique J



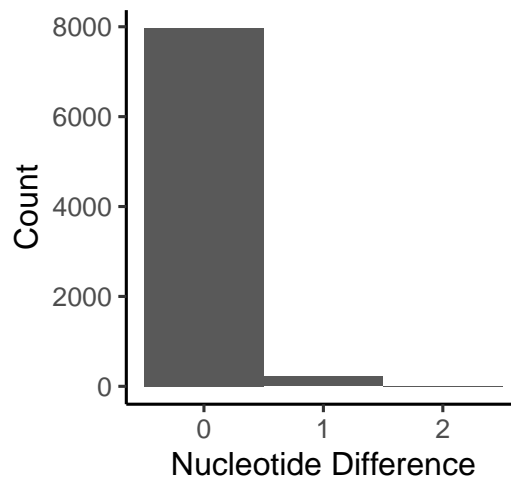
### TRBV5-6\*ap01

6795 sequences assigned  
6697 (98.6%) exact matches, in which:  
6406 unique CDR3  
13 unique J



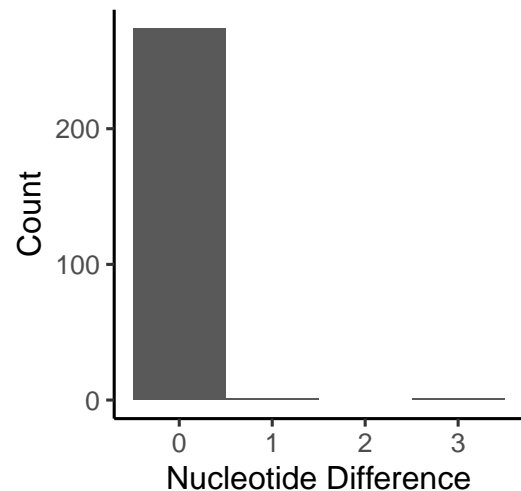
### TRBV6-1\*ap01

8191 sequences assigned  
7971 (97.3%) exact matches, in which:  
7679 unique CDR3  
13 unique J



### TRBV6-8\*ap01

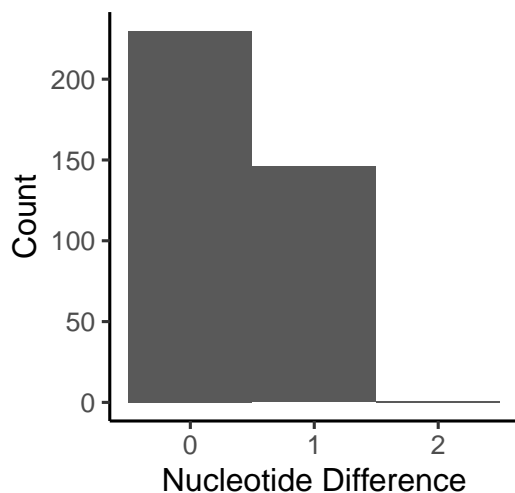
276 sequences assigned  
274 (99.3%) exact matches, in which:  
264 unique CDR3  
13 unique J





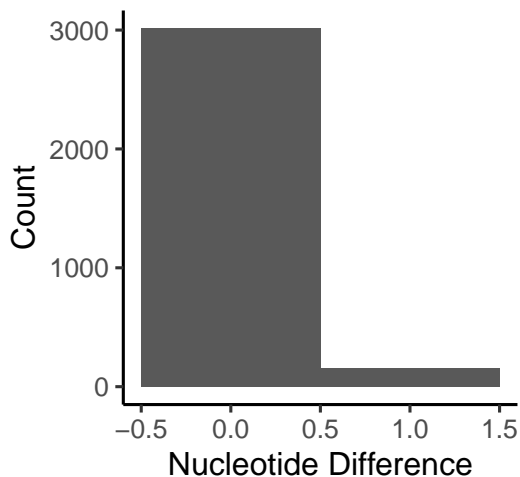
### TRBV6-9\*ap01

377 sequences assigned  
230 (61%) exact matches, in which:  
219 unique CDR3  
13 unique J



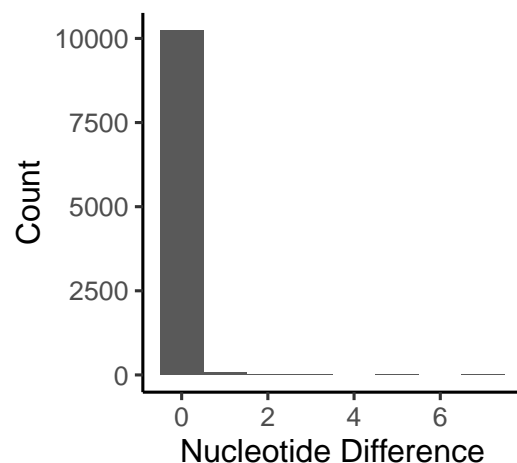
### TRBV6-56\*ap02

3169 sequences assigned  
3014 (95.1%) exact matches, in which:  
2917 unique CDR3  
13 unique J



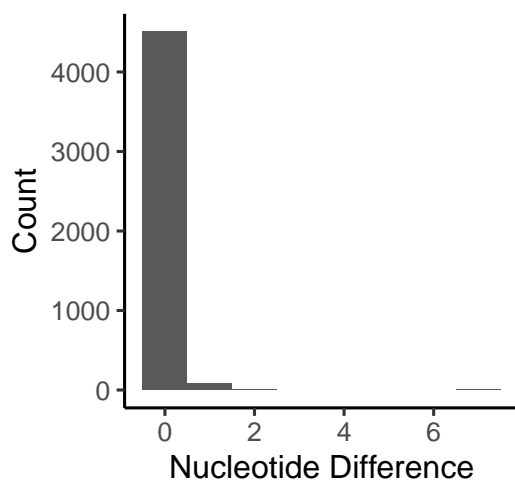
### TRBV7-2\*ap01

10316 sequences assigned  
10246 (99.3%) exact matches, in which:  
10034 unique CDR3  
13 unique J



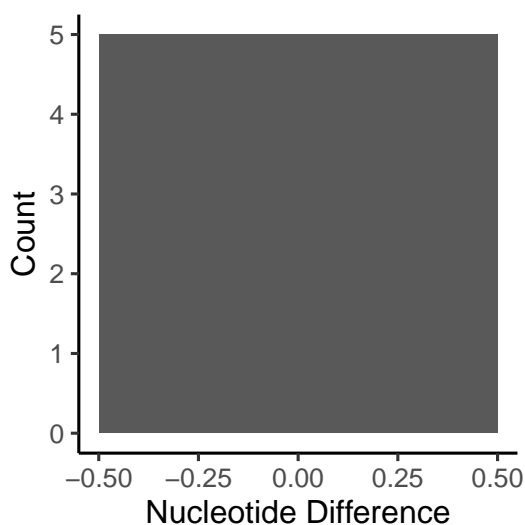
### TRBV6-23\*ap01

4585 sequences assigned  
4506 (98.3%) exact matches, in which:  
4283 unique CDR3  
13 unique J



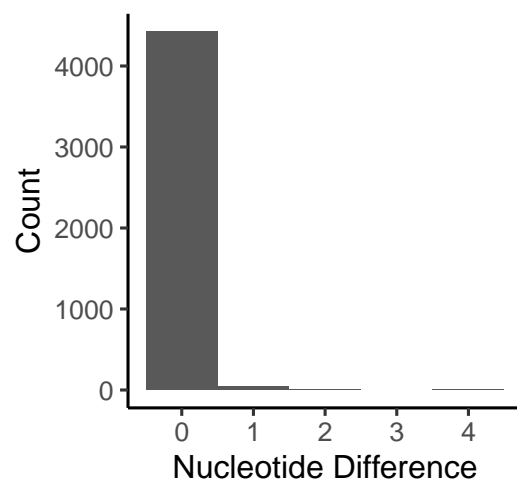
### TRBV7-1\*ap01

5 sequences assigned  
5 (100%) exact matches, in which:  
5 unique CDR3  
3 unique J



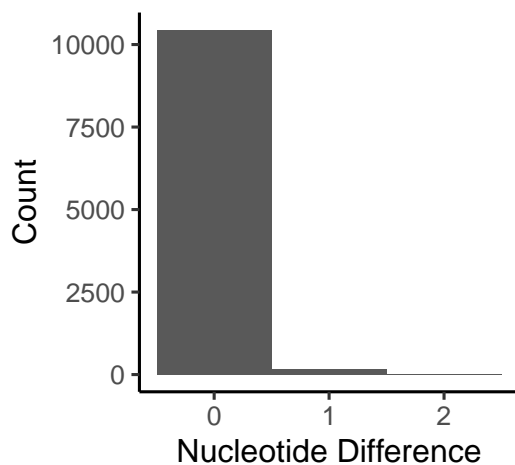
### TRBV7-3\*ap01

4473 sequences assigned  
4423 (98.9%) exact matches, in which:  
4338 unique CDR3  
13 unique J



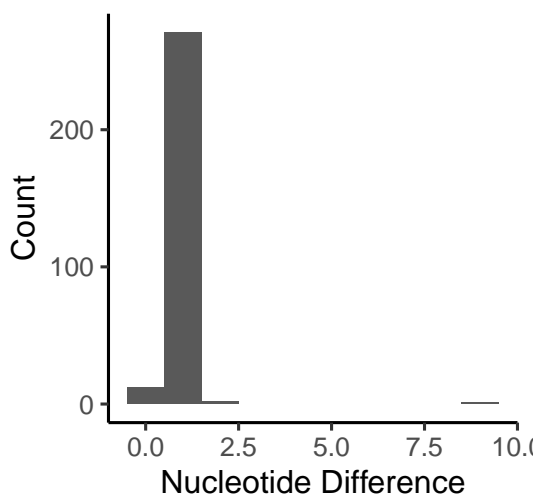
### TRBV6-56\*ap01

10629 sequences assigned  
10447 (98.3%) exact matches, in which:  
10030 unique CDR3  
13 unique J



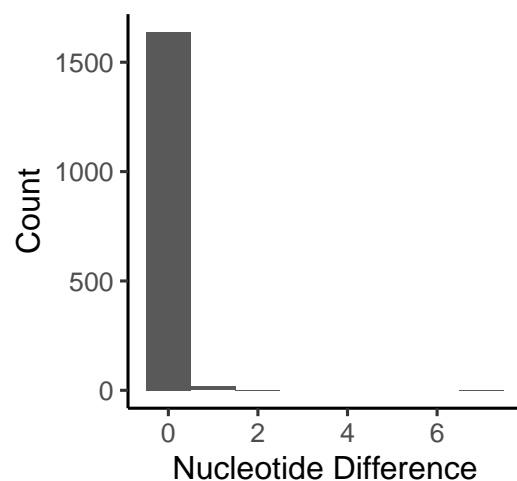
### TRBV7-1\*ap01\_T296C\_()

286 sequences assigned  
12 (4.2%) exact matches, in which:  
12 unique CDR3  
7 unique J



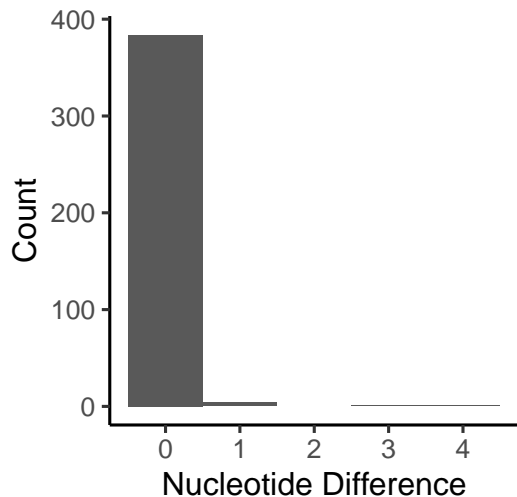
### TRBV7-3\*ap03

1658 sequences assigned  
1638 (98.8%) exact matches, in which:  
1596 unique CDR3  
13 unique J



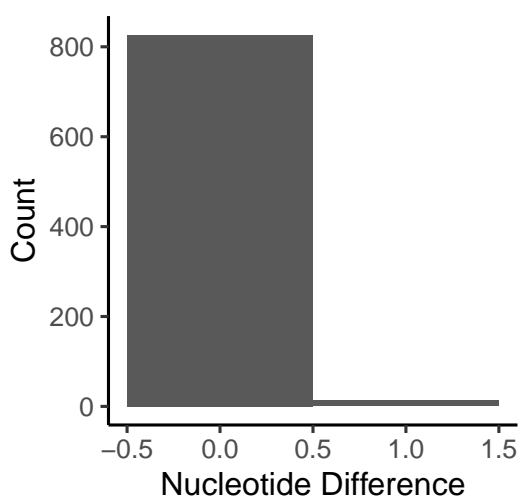
### TRBV7-4\*ap01

390 sequences assigned  
384 (98.5%) exact matches, in which:  
371 unique CDR3  
13 unique J



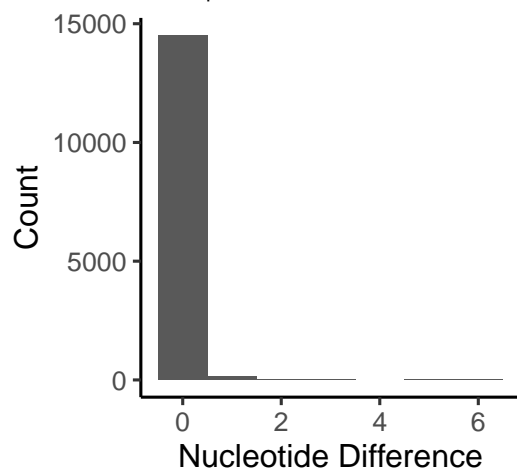
### TRBV7-7\*ap01\_C315T

840 sequences assigned  
827 (98.5%) exact matches, in which:  
804 unique CDR3  
13 unique J



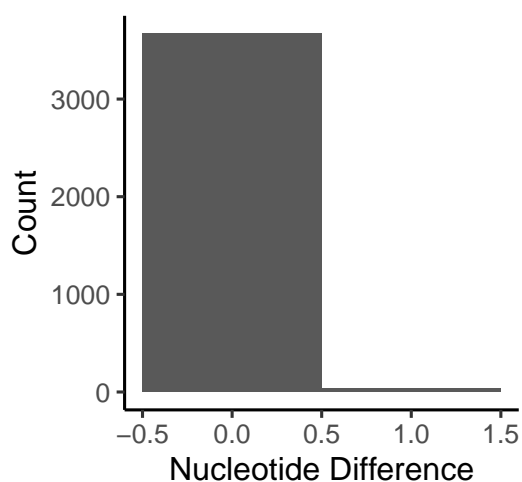
### TRBV7-9\*ap01

14692 sequences assigned  
14519 (98.8%) exact matches, in which:  
14102 unique CDR3  
13 unique J



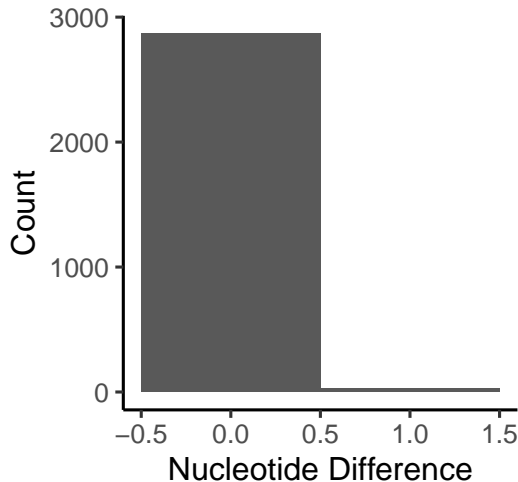
### TRBV7-6\*ap01

3708 sequences assigned  
3669 (98.9%) exact matches, in which:  
3574 unique CDR3  
13 unique J



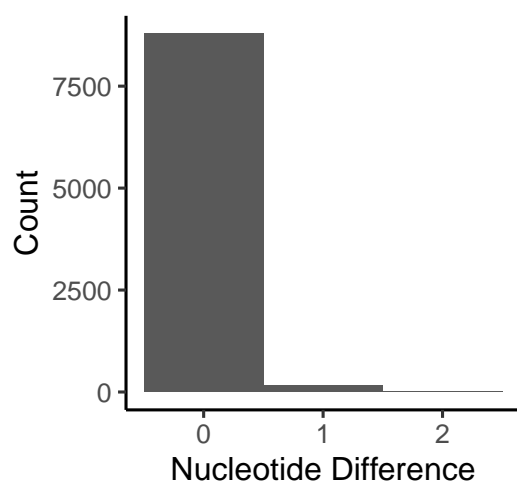
### TRBV7-8\*ap01

2893 sequences assigned  
2867 (99.1%) exact matches, in which:  
2787 unique CDR3  
13 unique J



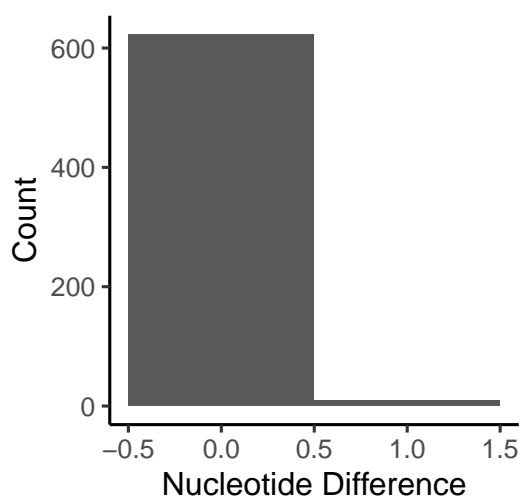
### TRBV29-1\*ap01

8940 sequences assigned  
8786 (98.3%) exact matches, in which:  
8446 unique CDR3  
13 unique J



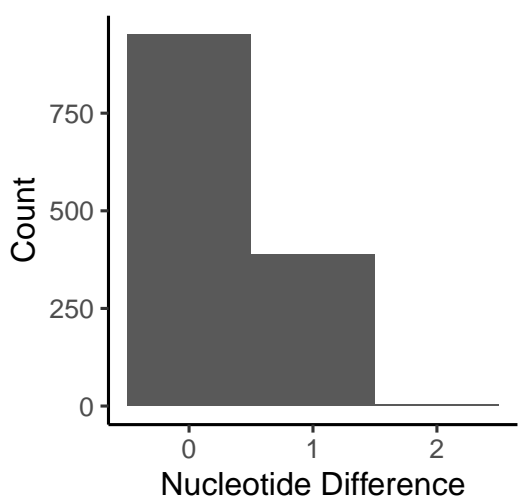
### TRBV7-7\*ap01

633 sequences assigned  
623 (98.4%) exact matches, in which:  
614 unique CDR3  
13 unique J



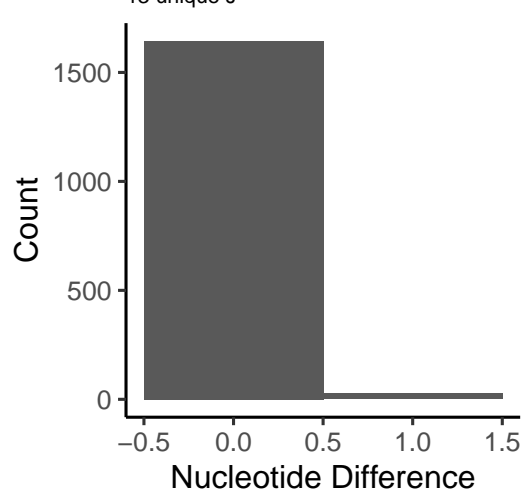
### TRBV7-8\*ap03

1346 sequences assigned  
952 (70.7%) exact matches, in which:  
922 unique CDR3  
13 unique J

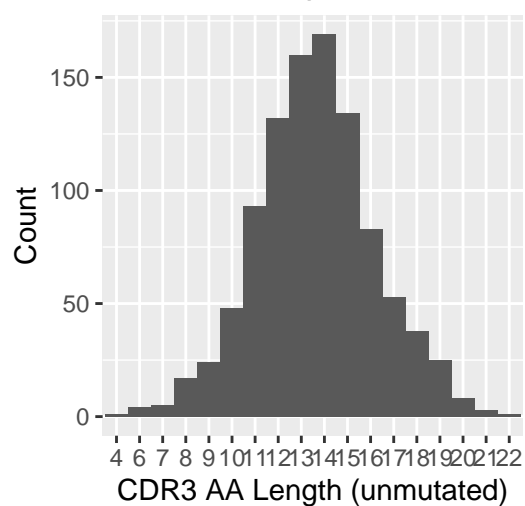


### TRBV29-1\*ap02

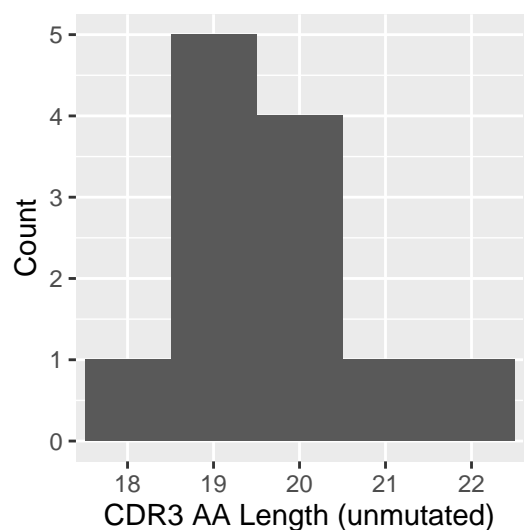
1670 sequences assigned  
1644 (98.4%) exact matches, in which:  
1591 unique CDR3  
13 unique J



TRBV23-1\*ap01\_T304C



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-7\*ap01\_C315T

