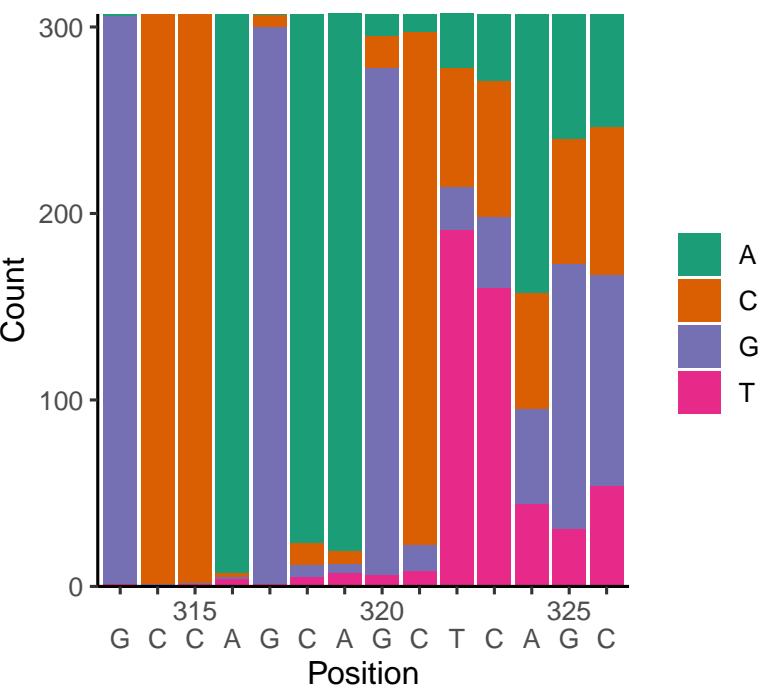
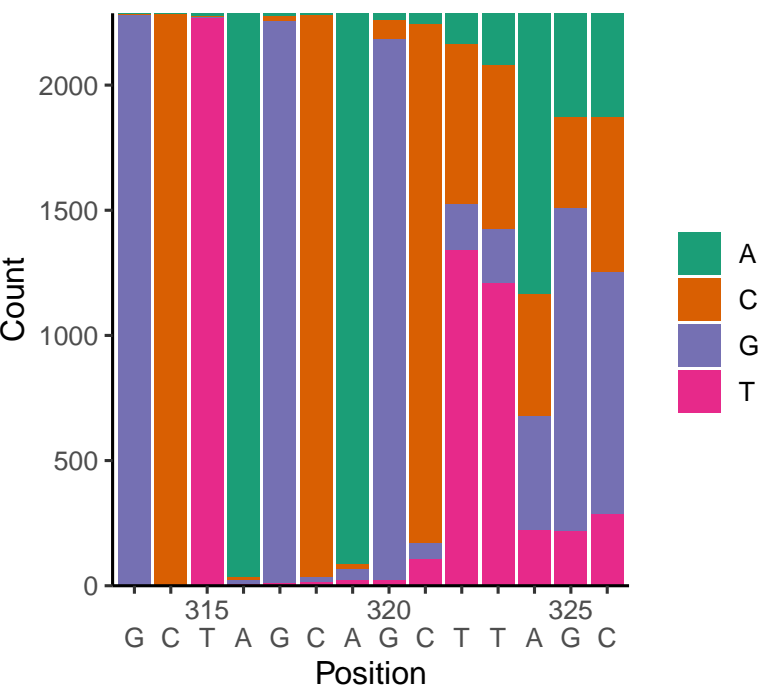


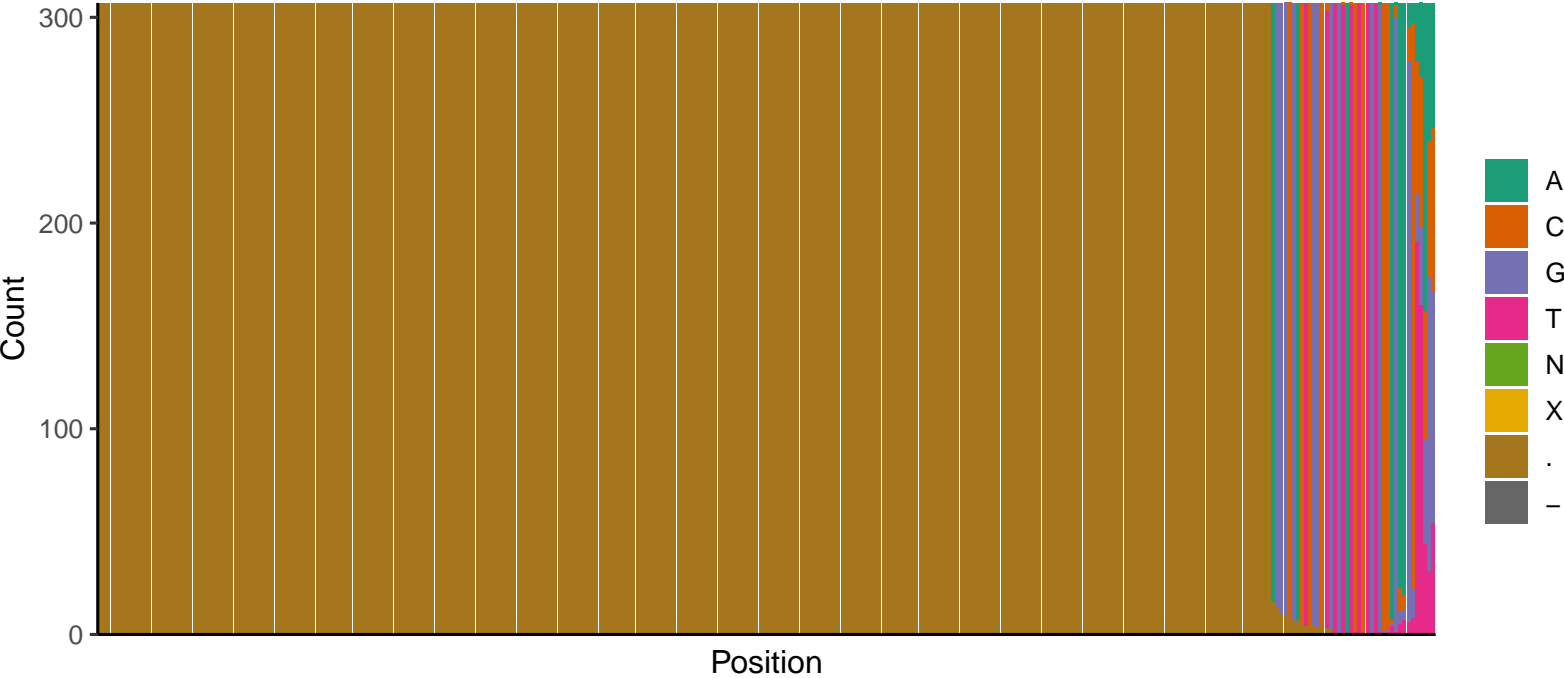
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



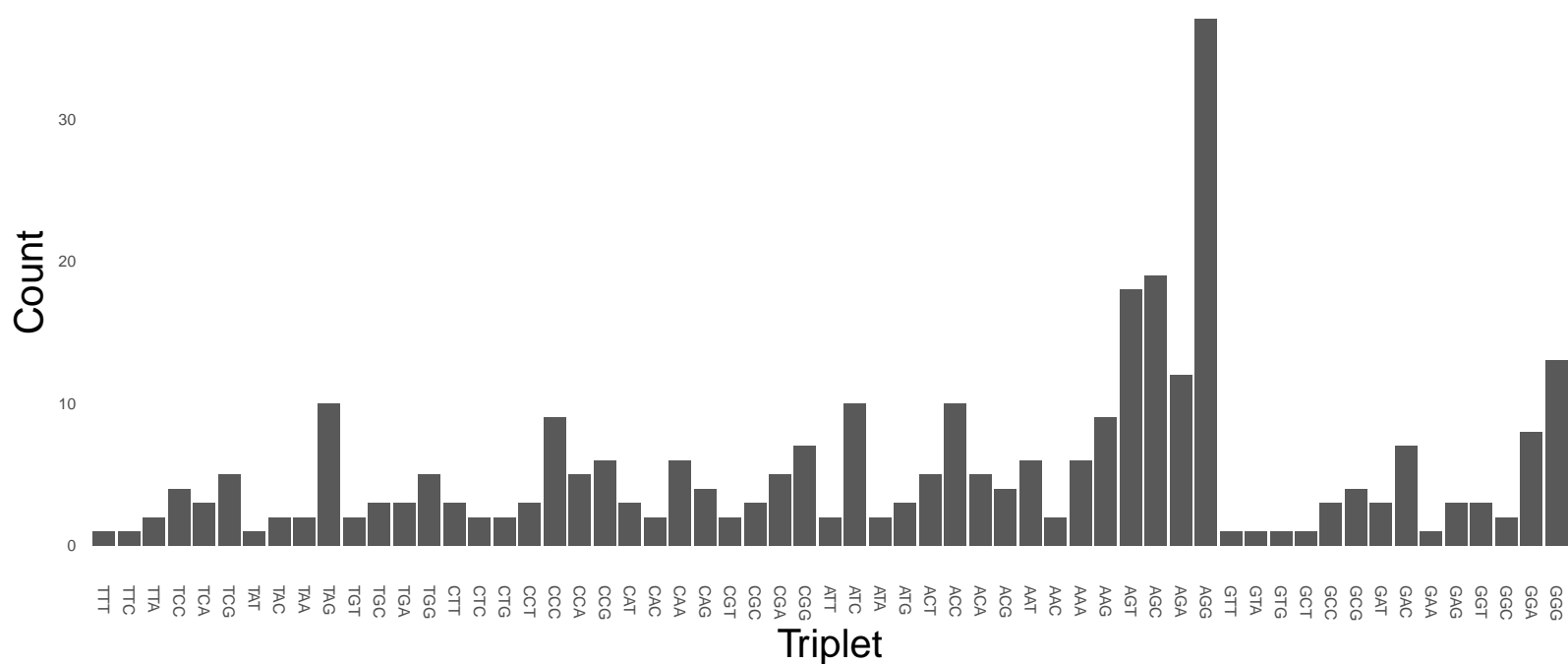
Gene TRBV7-1\*ap01\_G291C\_T296C



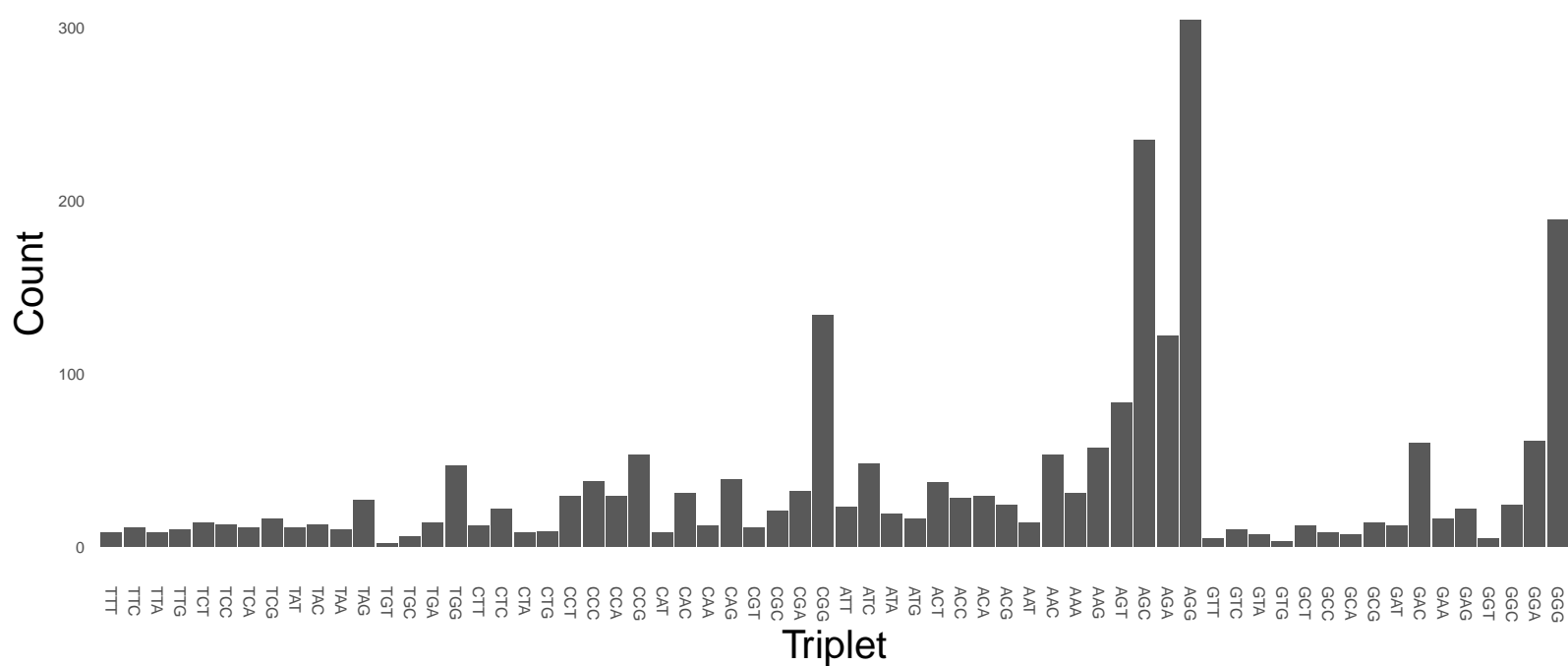
Gene TRBV7-7\*ap01\_C315T



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

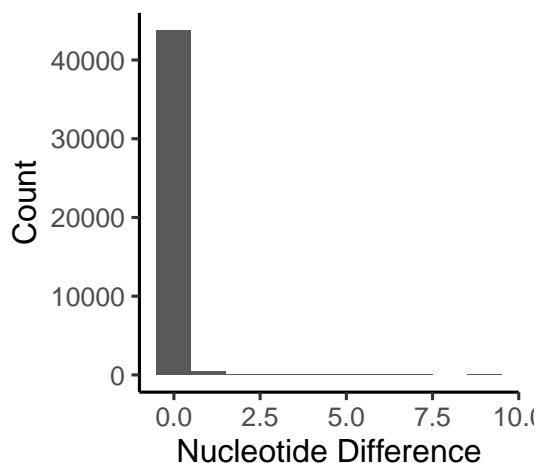


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



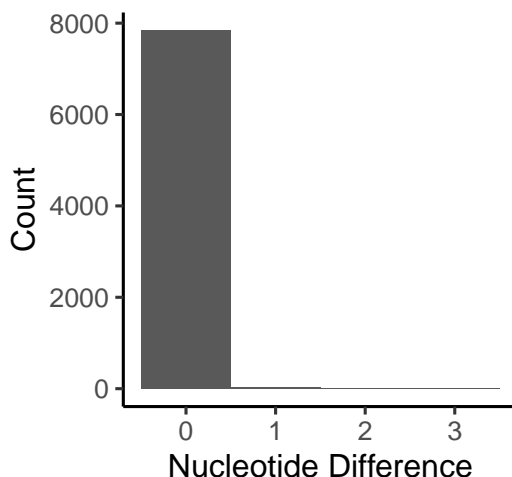
### TRBV20-1\*ap01

44222 sequences assigned  
43792 (99%) exact matches, in which:  
43083 unique CDR3  
13 unique J



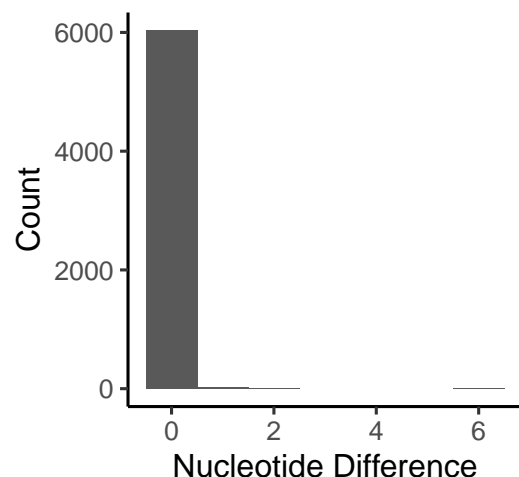
### TRBV10-3\*ap01

7887 sequences assigned  
7841 (99.4%) exact matches, in which:  
7705 unique CDR3  
13 unique J



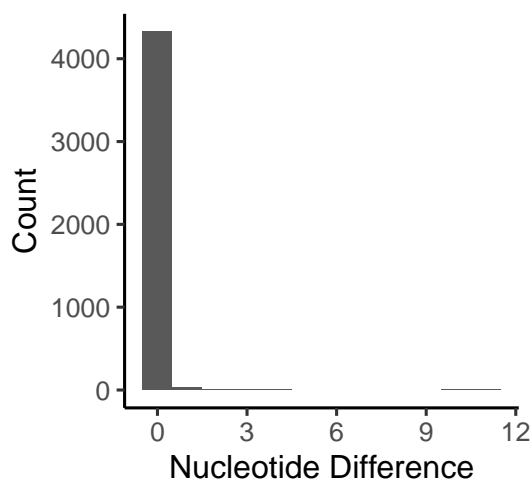
### TRBV14\*ap01

6070 sequences assigned  
6034 (99.4%) exact matches, in which:  
5945 unique CDR3  
13 unique J



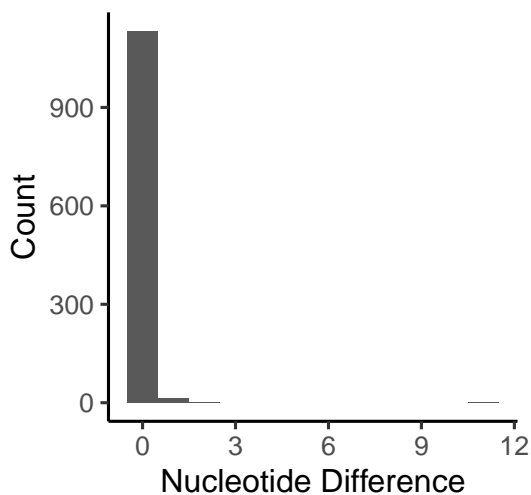
### TRBV10-1\*ap01

4362 sequences assigned  
4326 (99.2%) exact matches, in which:  
4252 unique CDR3  
13 unique J



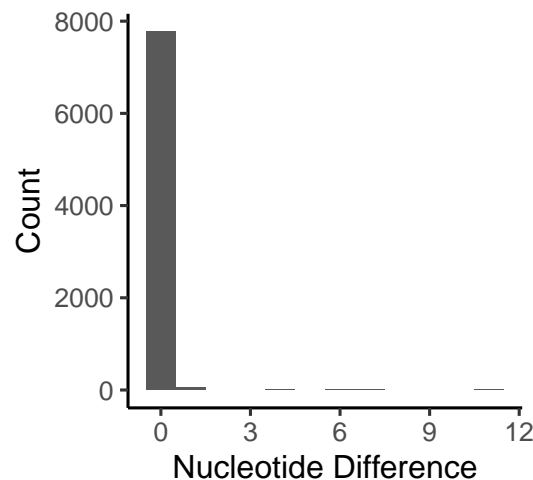
### TRBV1\*ap01

1149 sequences assigned  
1133 (98.6%) exact matches, in which:  
1099 unique CDR3  
13 unique J



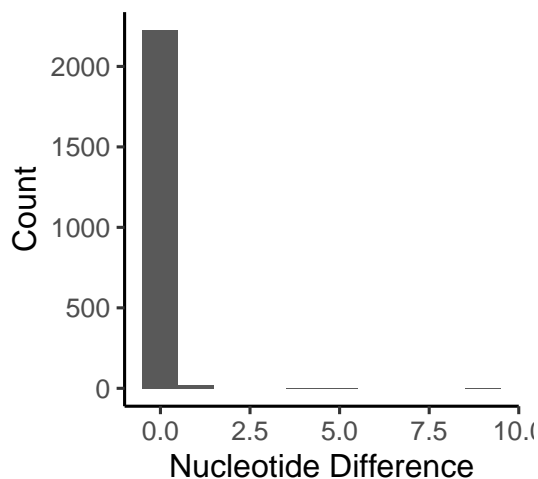
### TRBV15\*ap02

7826 sequences assigned  
7771 (99.3%) exact matches, in which:  
7587 unique CDR3  
13 unique J



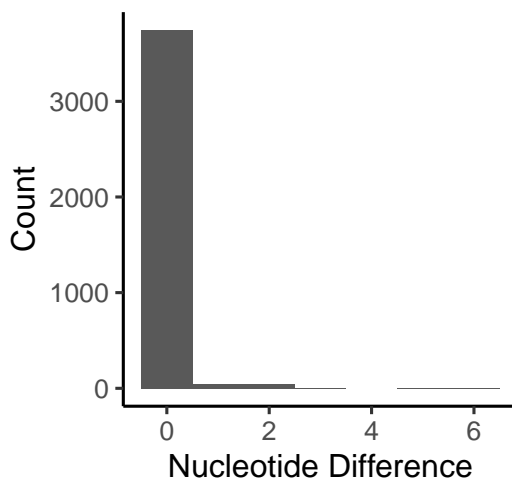
### TRBV10-2\*ap01

2250 sequences assigned  
2226 (98.9%) exact matches, in which:  
2191 unique CDR3  
13 unique J



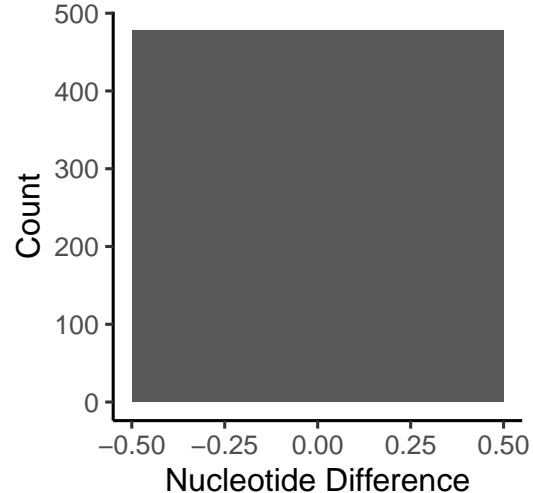
### TRBV13\*ap01

3837 sequences assigned  
3745 (97.6%) exact matches, in which:  
3647 unique CDR3  
13 unique J



### TRBV16\*ap01

478 sequences assigned  
478 (100%) exact matches, in which:  
473 unique CDR3  
13 unique J



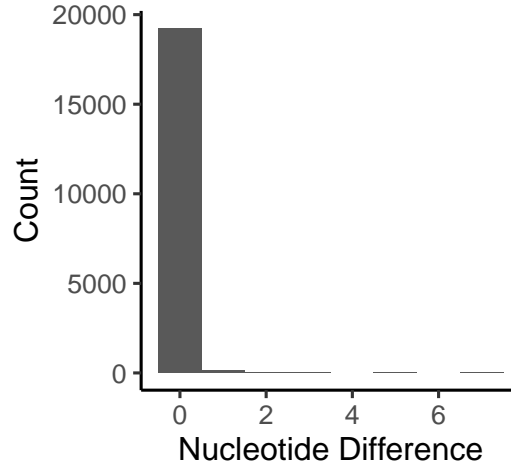
### TRBV17\*ap01

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



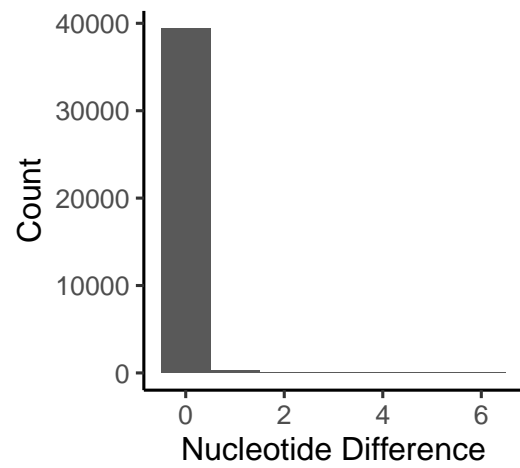
### TRBV2\*ap01

19404 sequences assigned  
19245 (99.2%) exact matches, in which:  
18897 unique CDR3  
13 unique J



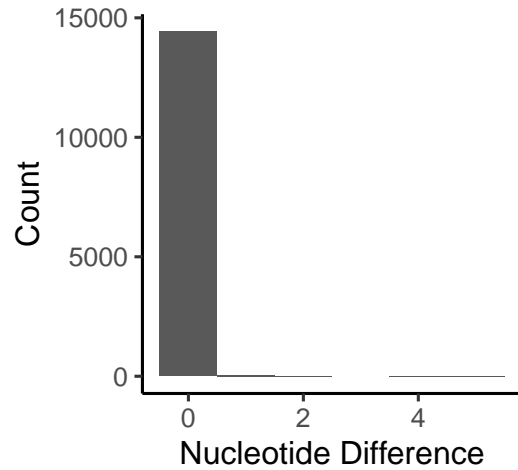
### TRBV28\*ap01

39699 sequences assigned  
39445 (99.4%) exact matches, in which:  
38906 unique CDR3  
13 unique J



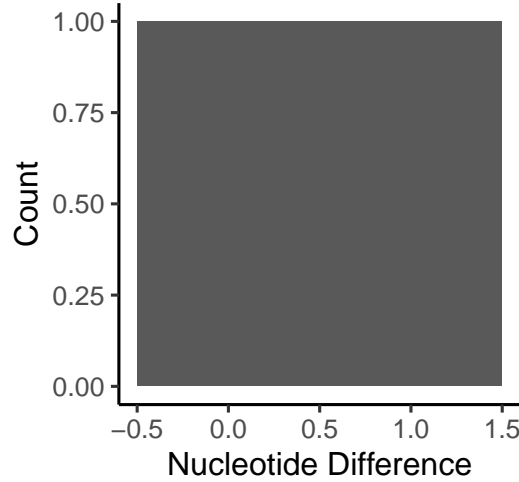
### TRBV18\*ap01

14485 sequences assigned  
14429 (99.6%) exact matches, in which:  
14303 unique CDR3  
13 unique J



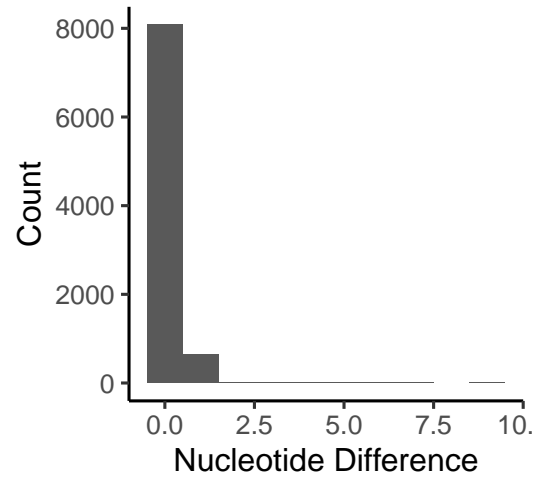
### TRBV26\*ap01

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



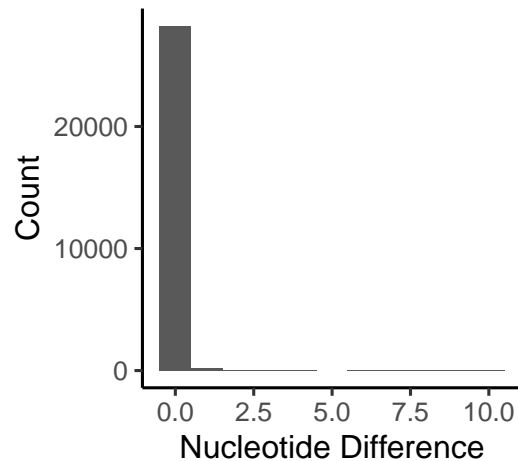
### TRBV30\*ap01

8739 sequences assigned  
8081 (92.5%) exact matches, in which:  
7862 unique CDR3  
13 unique J



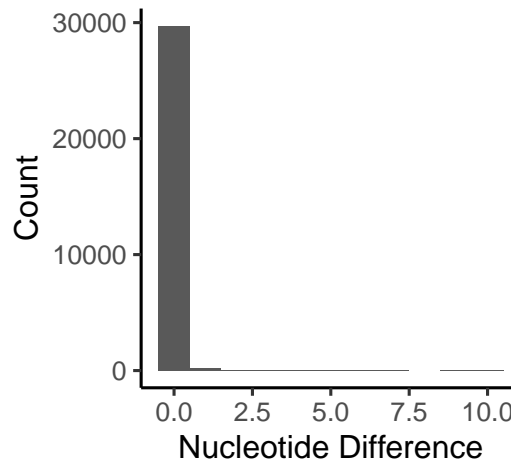
### TRBV19\*ap01

28453 sequences assigned  
28251 (99.3%) exact matches, in which:  
28015 unique CDR3  
13 unique J



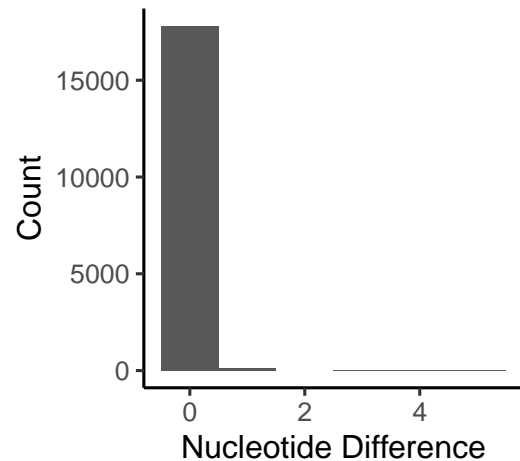
### TRBV27\*ap01

29966 sequences assigned  
29728 (99.2%) exact matches, in which:  
29124 unique CDR3  
13 unique J



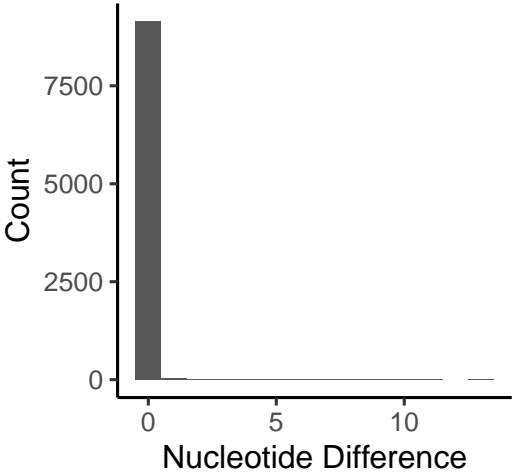
### TRBV9\*ap01

17933 sequences assigned  
17814 (99.3%) exact matches, in which:  
17570 unique CDR3  
13 unique J



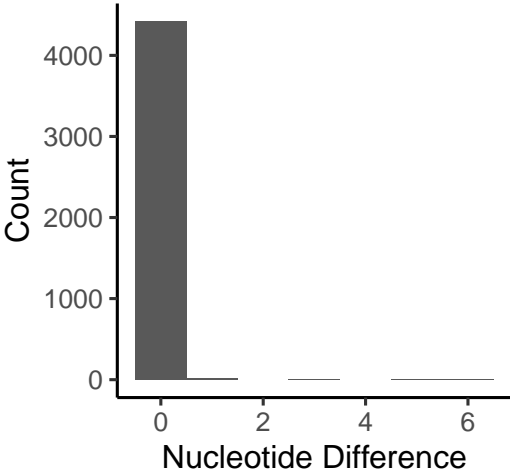
TRBV21-1\*ap01

9235 sequences assigned  
9143 (99%) exact matches, in which:  
9053 unique CDR3  
13 unique J



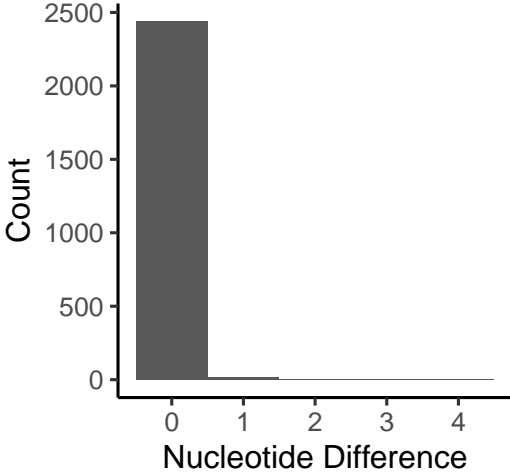
TRBV11-3\*ap01

4437 sequences assigned  
4419 (99.6%) exact matches, in which:  
4399 unique CDR3  
13 unique J



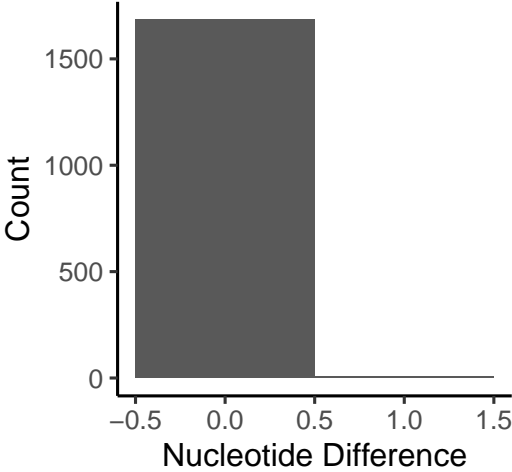
TRBV12-5\*ap01

2458 sequences assigned  
2439 (99.2%) exact matches, in which:  
2402 unique CDR3  
13 unique J



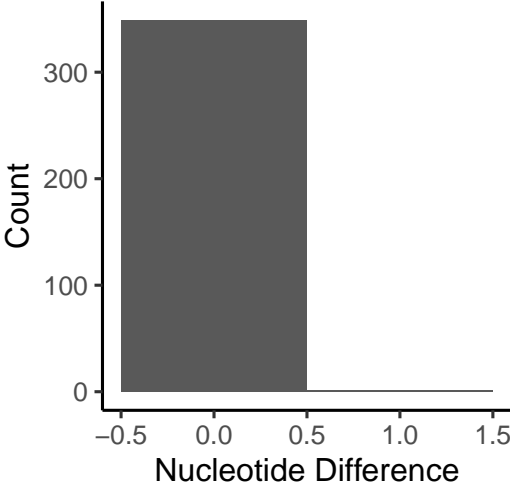
TRBV11-1\*ap01

1689 sequences assigned  
1684 (99.7%) exact matches, in which:  
1671 unique CDR3  
13 unique J



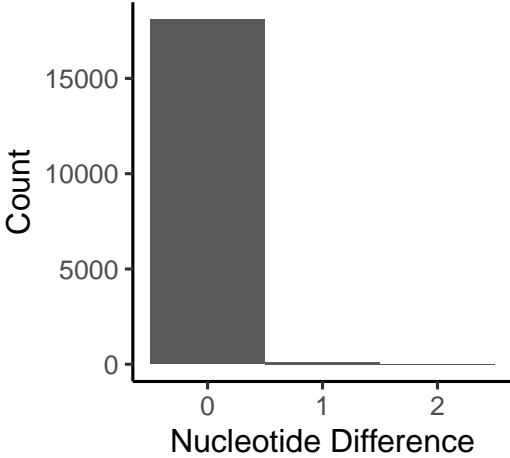
TRBV12-1\*ap01

350 sequences assigned  
349 (99.7%) exact matches, in which:  
345 unique CDR3  
12 unique J



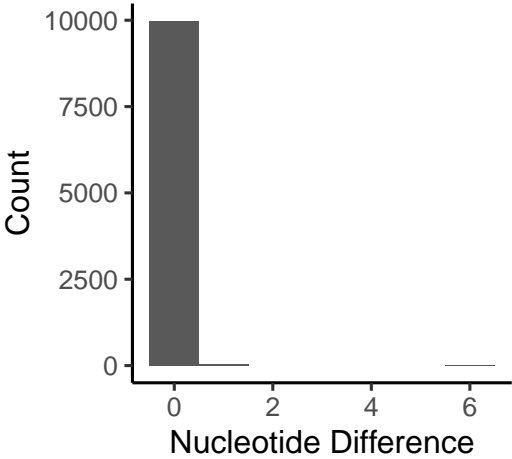
TRBV12-34\*ap01

18222 sequences assigned  
18093 (99.3%) exact matches, in which:  
17746 unique CDR3  
13 unique J



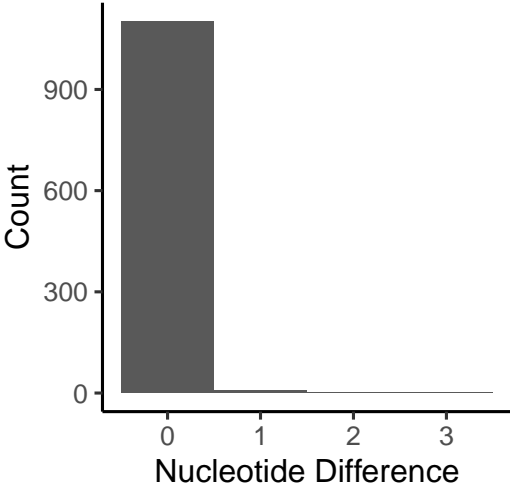
TRBV11-2\*ap01

10017 sequences assigned  
9984 (99.7%) exact matches, in which:  
9921 unique CDR3  
13 unique J



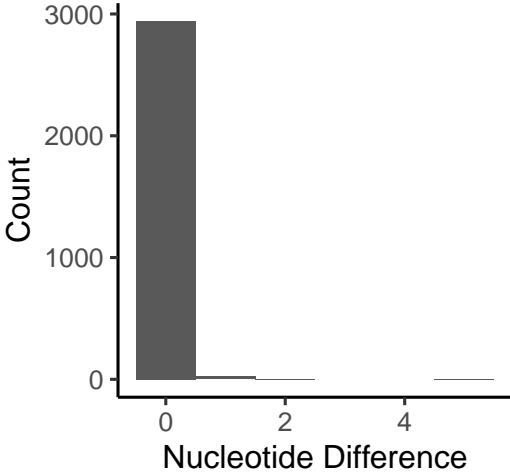
TRBV12-2\*ap01

1112 sequences assigned  
1102 (99.1%) exact matches, in which:  
1088 unique CDR3  
13 unique J



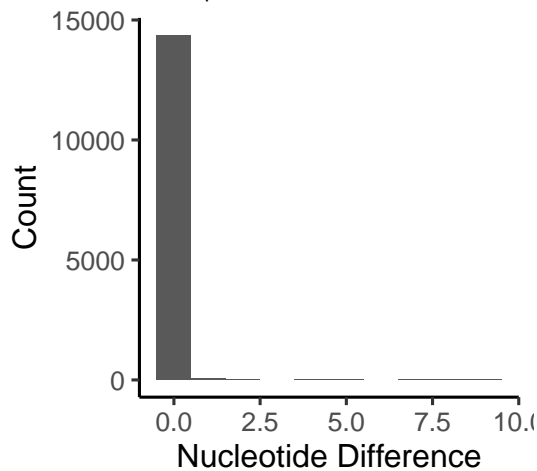
TRBV23-1\*ap01

2969 sequences assigned  
2942 (99.1%) exact matches, in which:  
2903 unique CDR3  
13 unique J



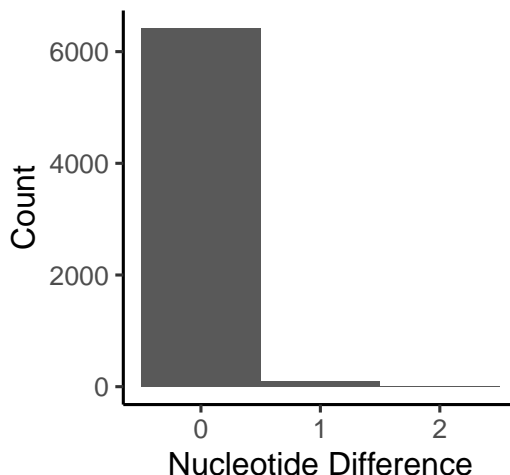
### TRBV3-12\*ap01

14450 sequences assigned  
14368 (99.4%) exact matches, in which:  
14223 unique CDR3  
13 unique J



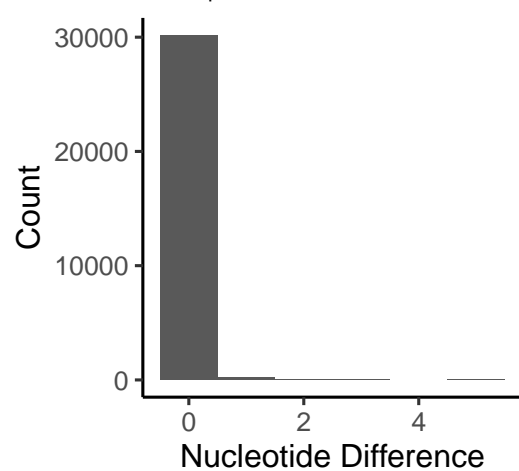
### TRBV4-2\*ap01

6509 sequences assigned  
6416 (98.6%) exact matches, in which:  
6253 unique CDR3  
13 unique J



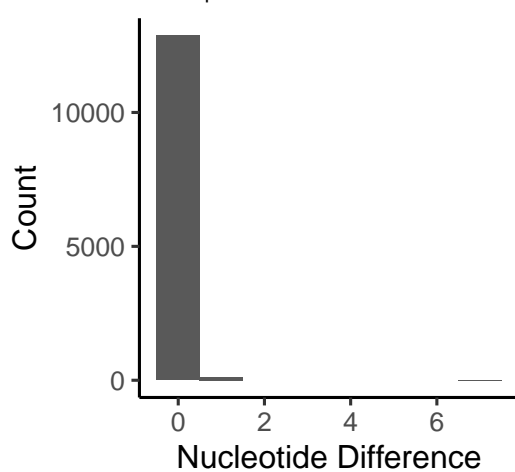
### TRBV5-1\*ap01

30422 sequences assigned  
30177 (99.2%) exact matches, in which:  
29417 unique CDR3  
13 unique J



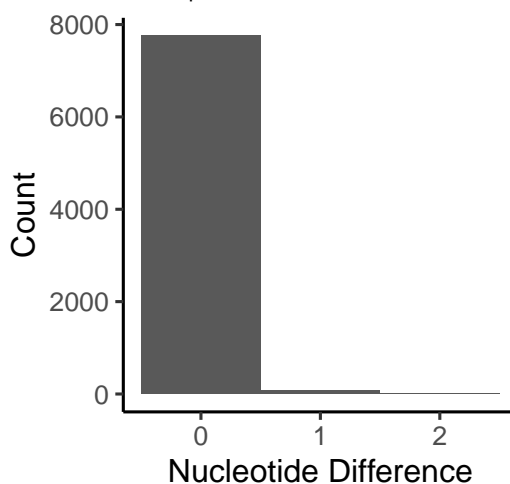
### TRBV4-1\*ap01

12991 sequences assigned  
12875 (99.1%) exact matches, in which:  
12496 unique CDR3  
13 unique J



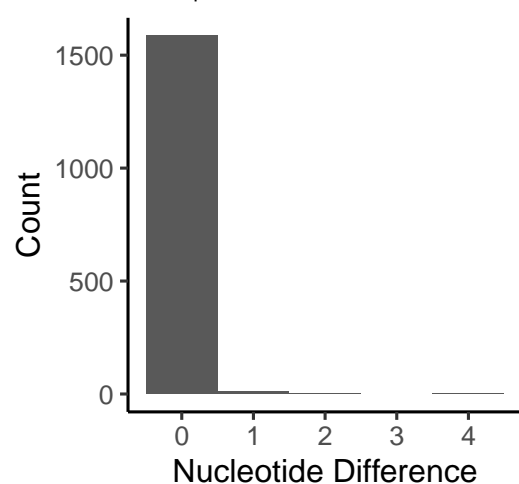
### TRBV4-3\*ap01

7828 sequences assigned  
7758 (99.1%) exact matches, in which:  
7579 unique CDR3  
13 unique J



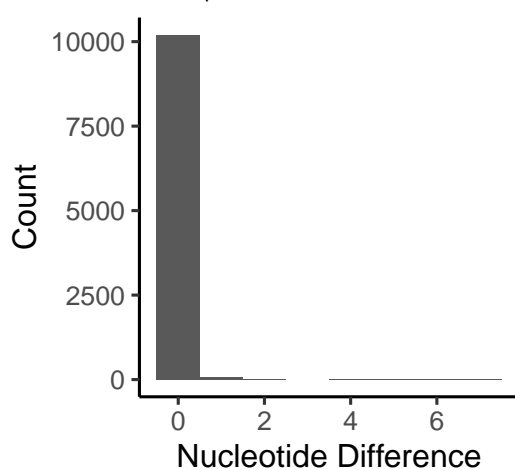
### TRBV5-3\*ap01

1601 sequences assigned  
1586 (99.1%) exact matches, in which:  
1555 unique CDR3  
13 unique J



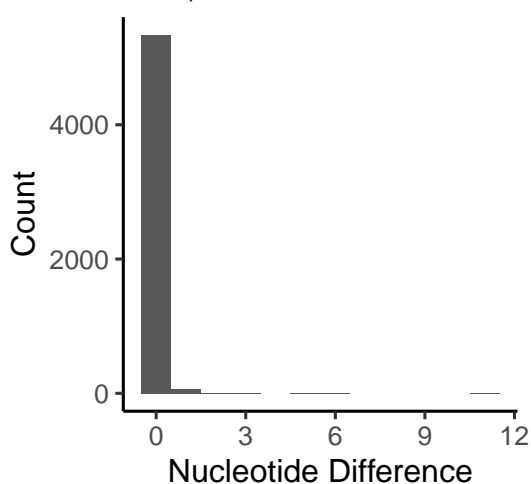
### TRBV24-1\*ap01

10299 sequences assigned  
10203 (99.1%) exact matches, in which:  
10005 unique CDR3  
13 unique J



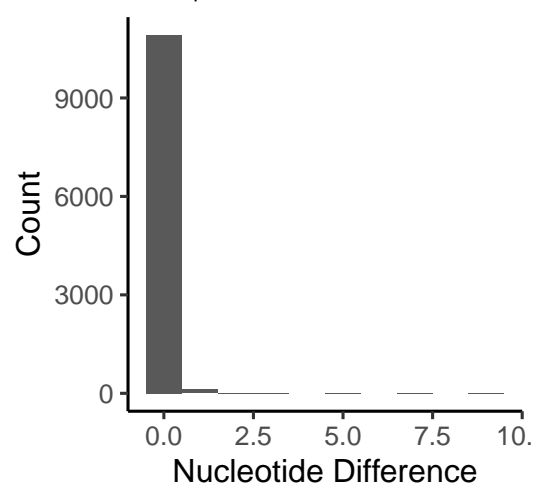
### TRBV25-1\*ap01

5408 sequences assigned  
5336 (98.7%) exact matches, in which:  
5188 unique CDR3  
13 unique J



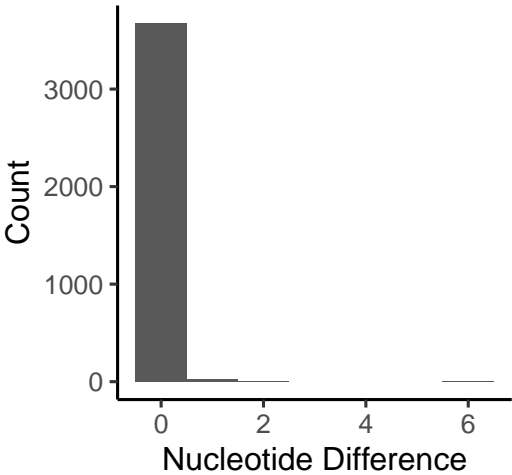
### TRBV5-4\*ap01

11039 sequences assigned  
10917 (98.9%) exact matches, in which:  
10667 unique CDR3  
13 unique J



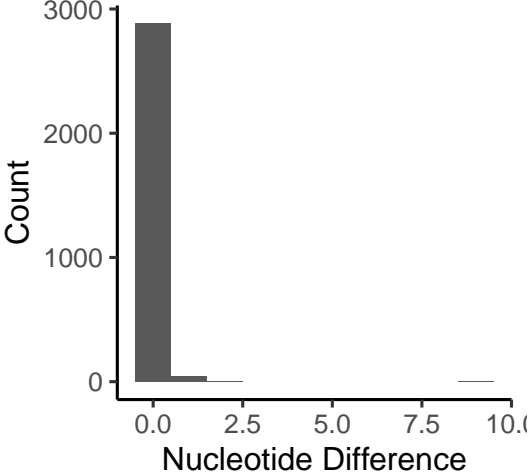
TRBV5-5\*ap01

3699 sequences assigned  
3673 (99.3%) exact matches, in which:  
3646 unique CDR3  
13 unique J



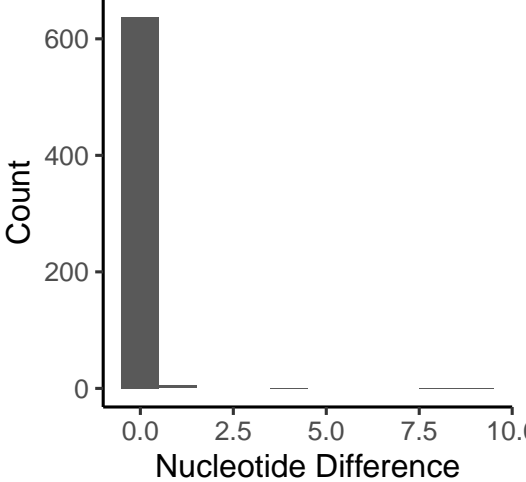
TRBV5-8\*ap01

2934 sequences assigned  
2884 (98.3%) exact matches, in which:  
2836 unique CDR3  
13 unique J



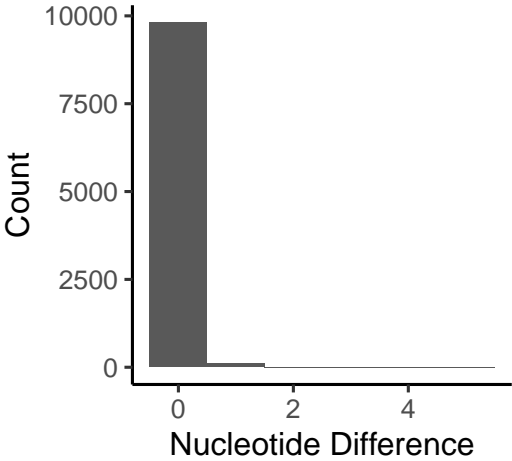
TRBV6-7\*ap01

646 sequences assigned  
638 (98.8%) exact matches, in which:  
626 unique CDR3  
13 unique J



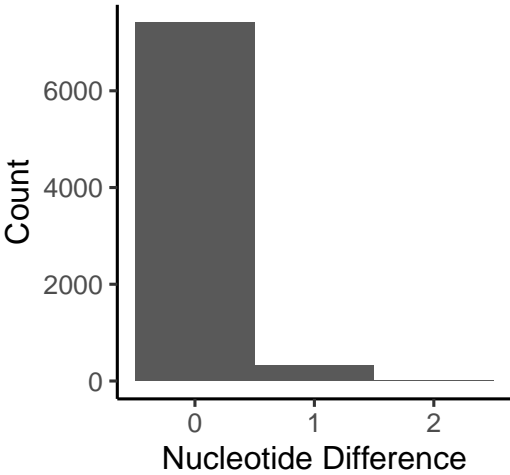
TRBV5-6\*ap01

9918 sequences assigned  
9812 (98.9%) exact matches, in which:  
9487 unique CDR3  
13 unique J



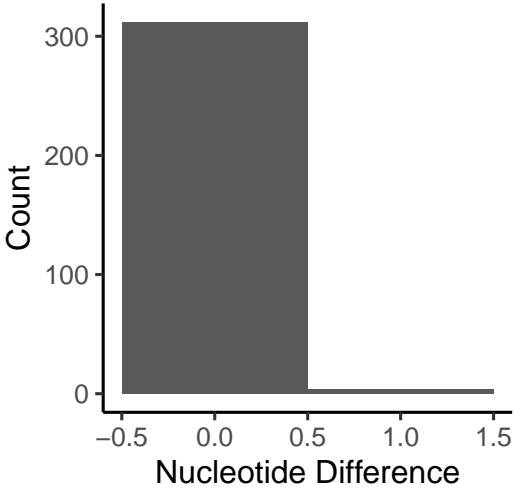
TRBV6-1\*ap01

7738 sequences assigned  
7407 (95.7%) exact matches, in which:  
7228 unique CDR3  
13 unique J



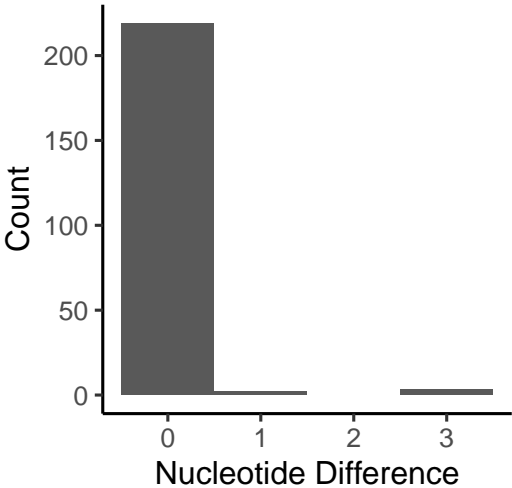
TRBV6-8\*ap01

316 sequences assigned  
312 (98.7%) exact matches, in which:  
307 unique CDR3  
13 unique J



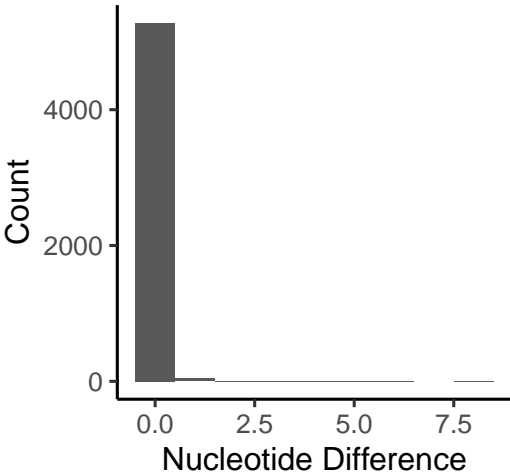
TRBV5-7\*ap01

224 sequences assigned  
219 (97.8%) exact matches, in which:  
212 unique CDR3  
13 unique J



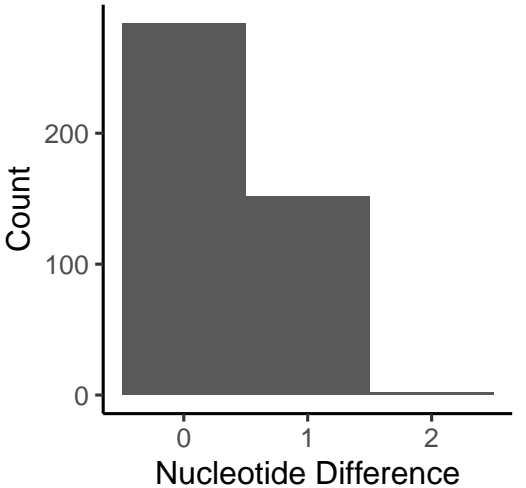
TRBV6-4\*ap01

5338 sequences assigned  
5276 (98.8%) exact matches, in which:  
5209 unique CDR3  
13 unique J



TRBV6-9\*ap01

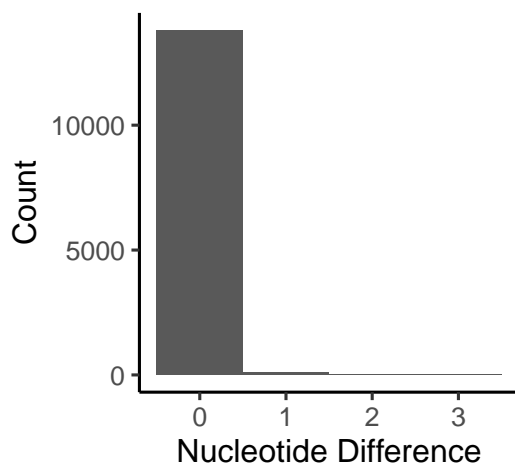
438 sequences assigned  
284 (64.8%) exact matches, in which:  
278 unique CDR3  
13 unique J





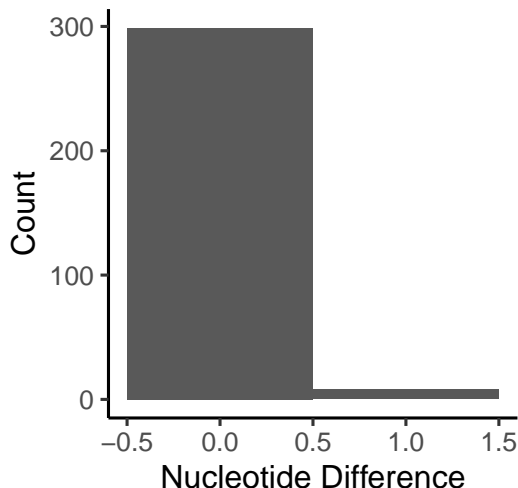
### TRBV6-23\*ap01

13919 sequences assigned  
13804 (99.2%) exact matches, in which:  
13360 unique CDR3  
13 unique J



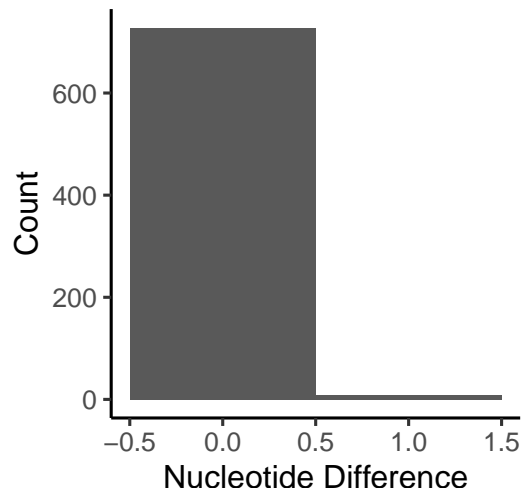
### TRBV7-1\*ap01\_G291C\_

307 sequences assigned  
299 (97.4%) exact matches, in which:  
296 unique CDR3  
13 unique J



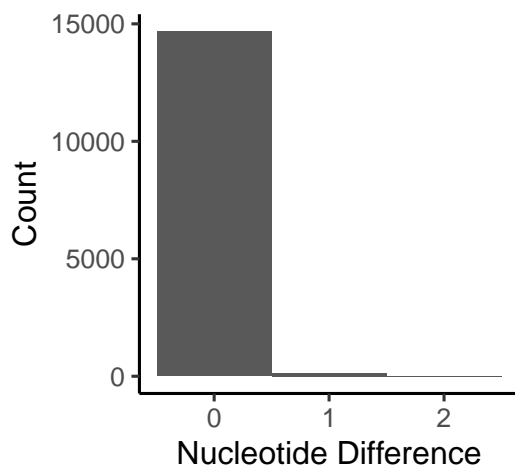
### TRBV7-4\*ap01

736 sequences assigned  
728 (98.9%) exact matches, in which:  
717 unique CDR3  
13 unique J



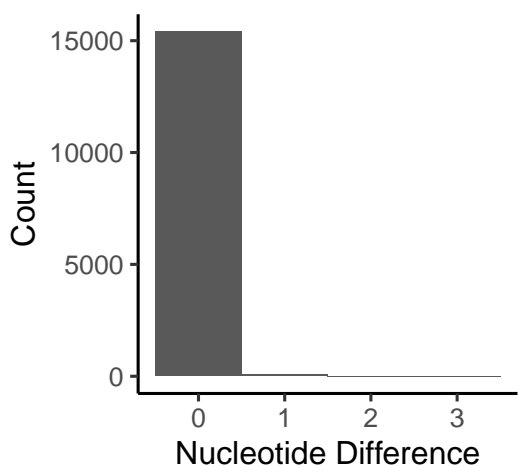
### TRBV6-56\*ap01

14810 sequences assigned  
14676 (99.1%) exact matches, in which:  
14292 unique CDR3  
13 unique J



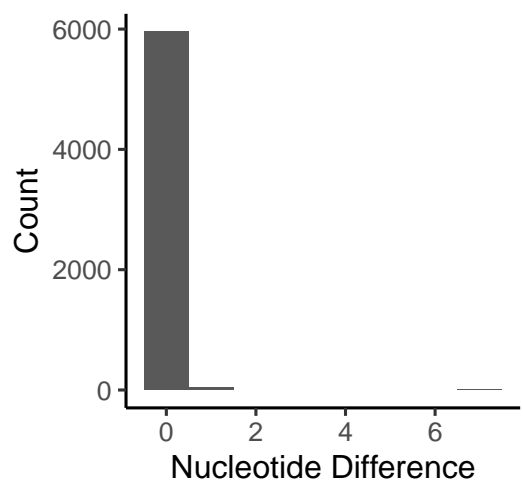
### TRBV7-2\*ap01

15489 sequences assigned  
15411 (99.5%) exact matches, in which:  
15203 unique CDR3  
13 unique J



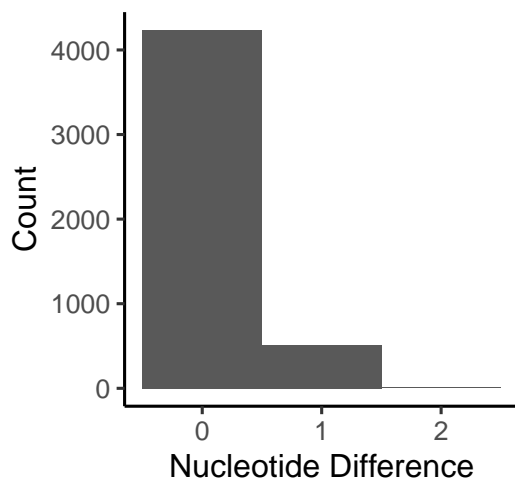
### TRBV7-6\*ap01

5992 sequences assigned  
5956 (99.4%) exact matches, in which:  
5828 unique CDR3  
13 unique J



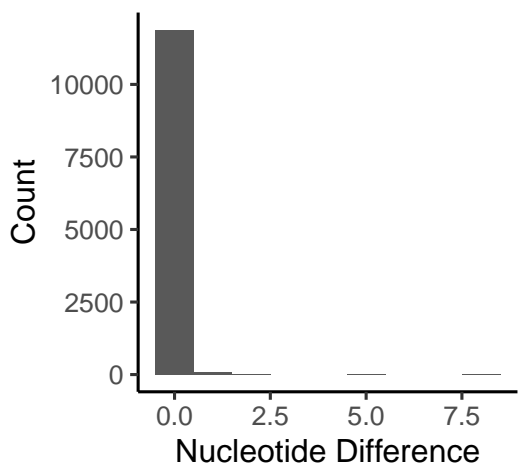
### TRBV6-56\*ap02

4757 sequences assigned  
4235 (89%) exact matches, in which:  
4109 unique CDR3  
13 unique J



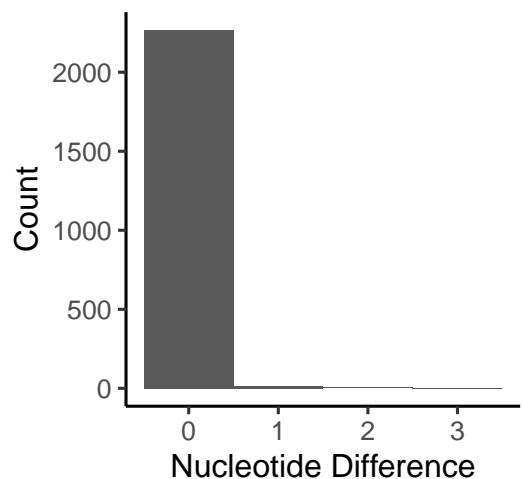
### TRBV7-3\*ap01

11964 sequences assigned  
11882 (99.3%) exact matches, in which:  
11758 unique CDR3  
13 unique J



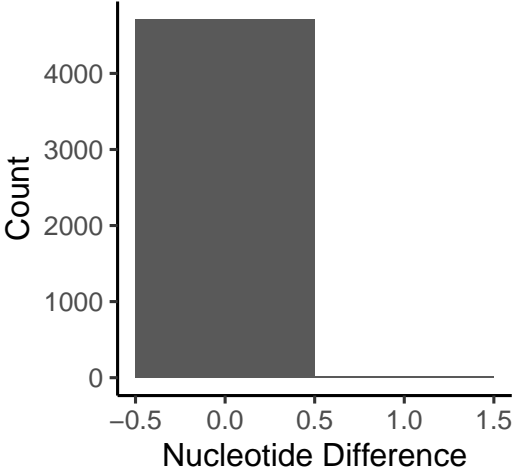
### TRBV7-7\*ap01\_C315T

2287 sequences assigned  
2267 (99.1%) exact matches, in which:  
2228 unique CDR3  
13 unique J



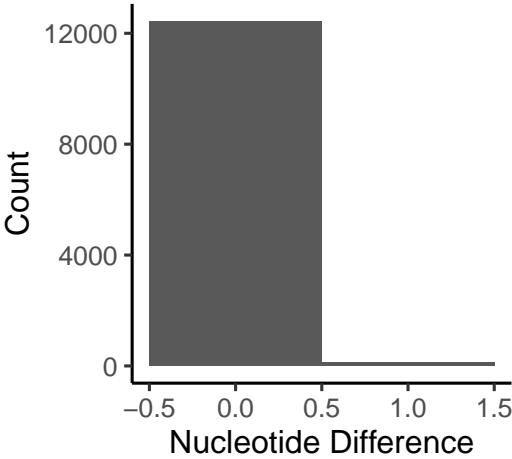
TRBV7-8\*ap01

4728 sequences assigned  
4710 (99.6%) exact matches, in which:  
4625 unique CDR3  
13 unique J



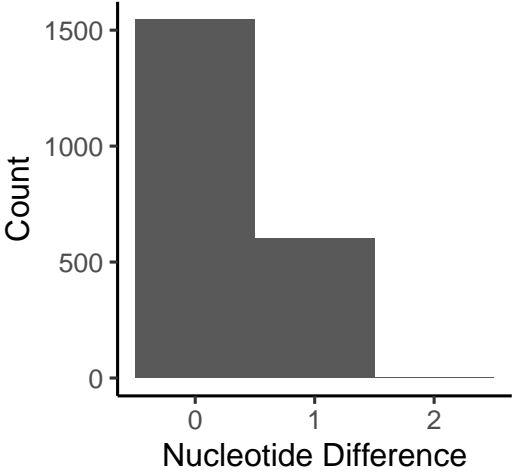
TRBV29-1\*ap01

12567 sequences assigned  
12438 (99%) exact matches, in which:  
12068 unique CDR3  
13 unique J



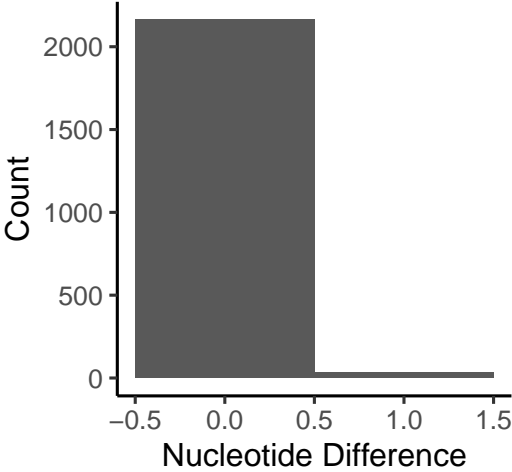
TRBV7-8\*ap03

2150 sequences assigned  
1545 (71.9%) exact matches, in which:  
1517 unique CDR3  
13 unique J



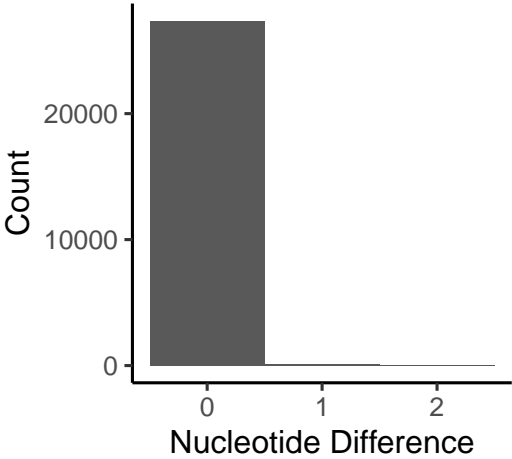
TRBV29-1\*ap02

2195 sequences assigned  
2163 (98.5%) exact matches, in which:  
2100 unique CDR3  
13 unique J

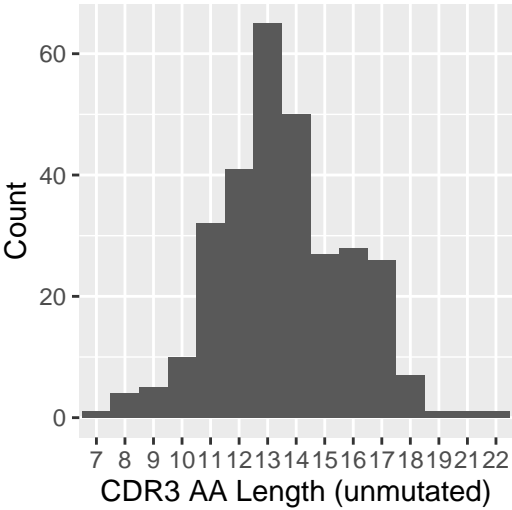


TRBV7-9\*ap01

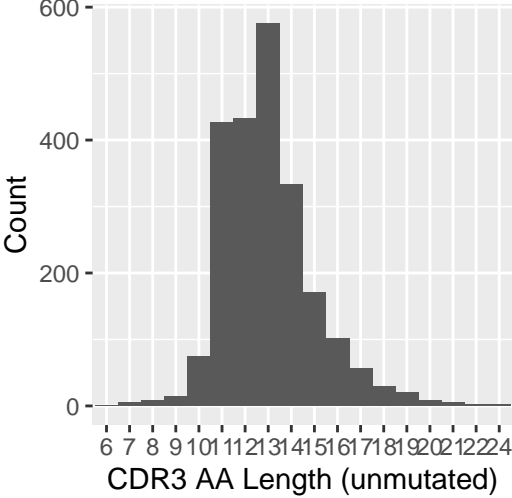
27528 sequences assigned  
27368 (99.4%) exact matches, in which:  
26964 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]