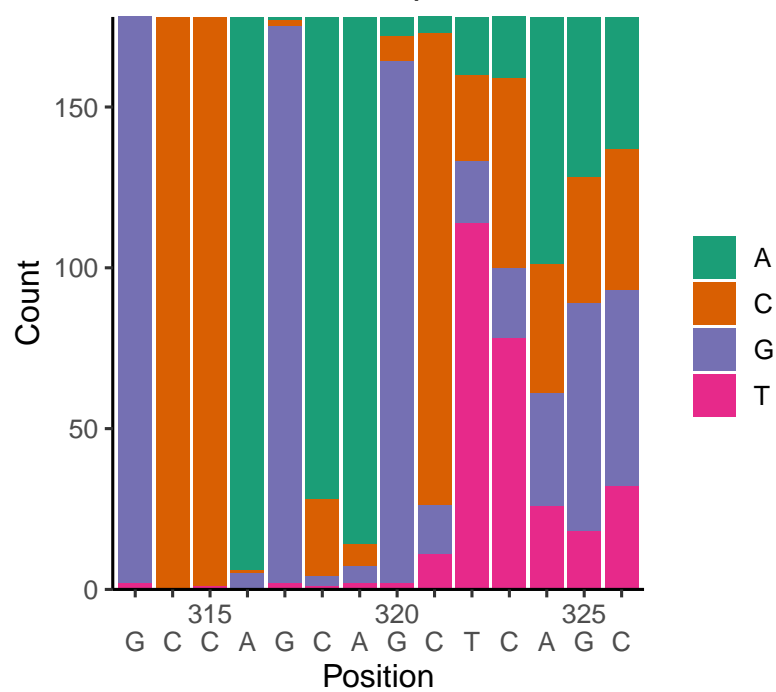
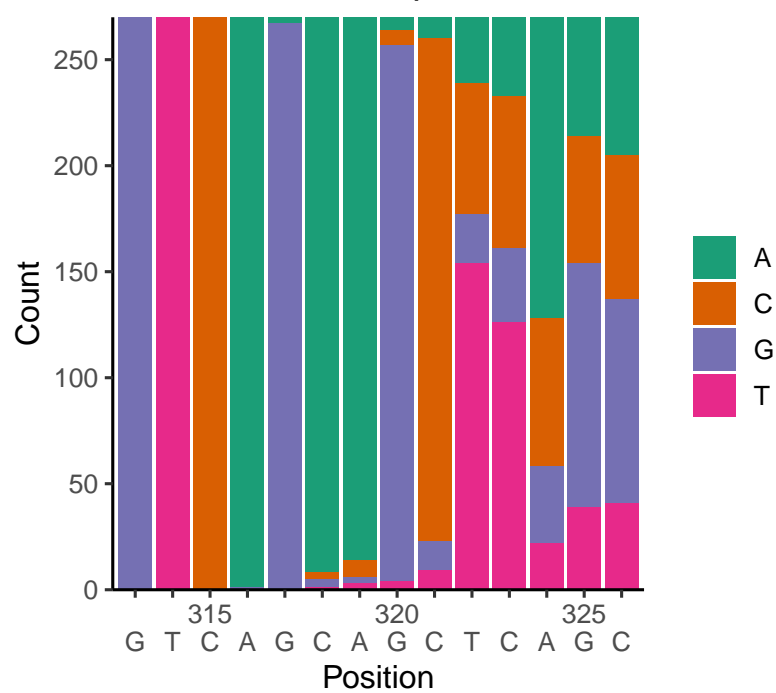


Gene TRBV7-1\*ap01\_G291C\_T296C



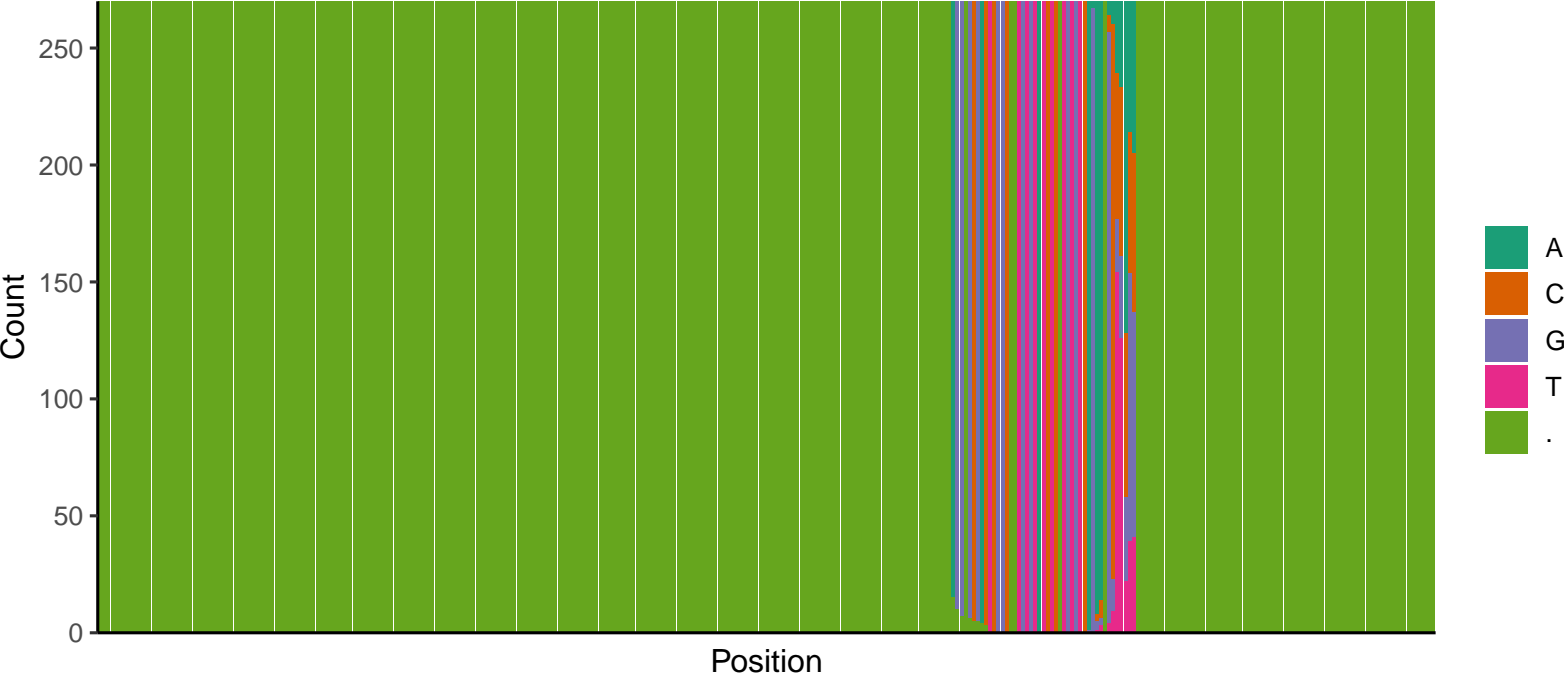
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



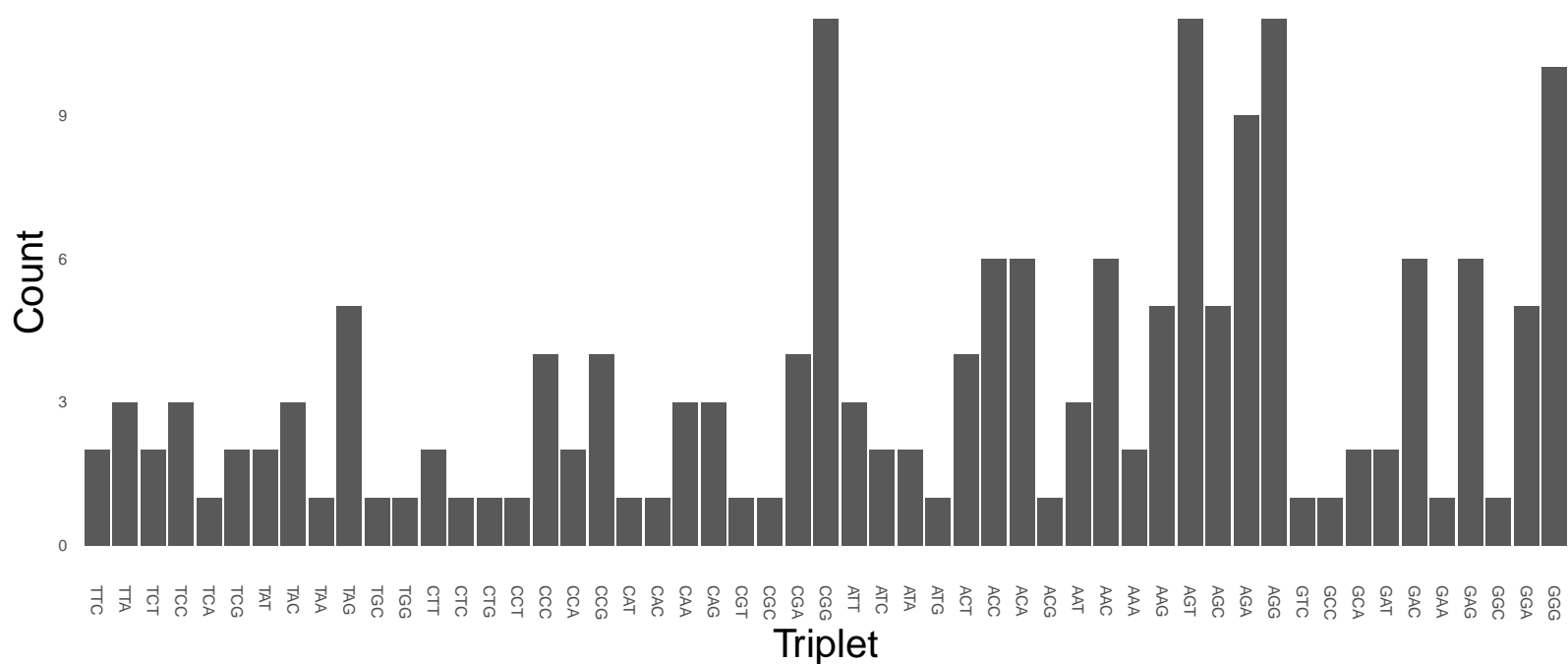
Gene TRBV7-1\*ap01\_G291C\_T296C



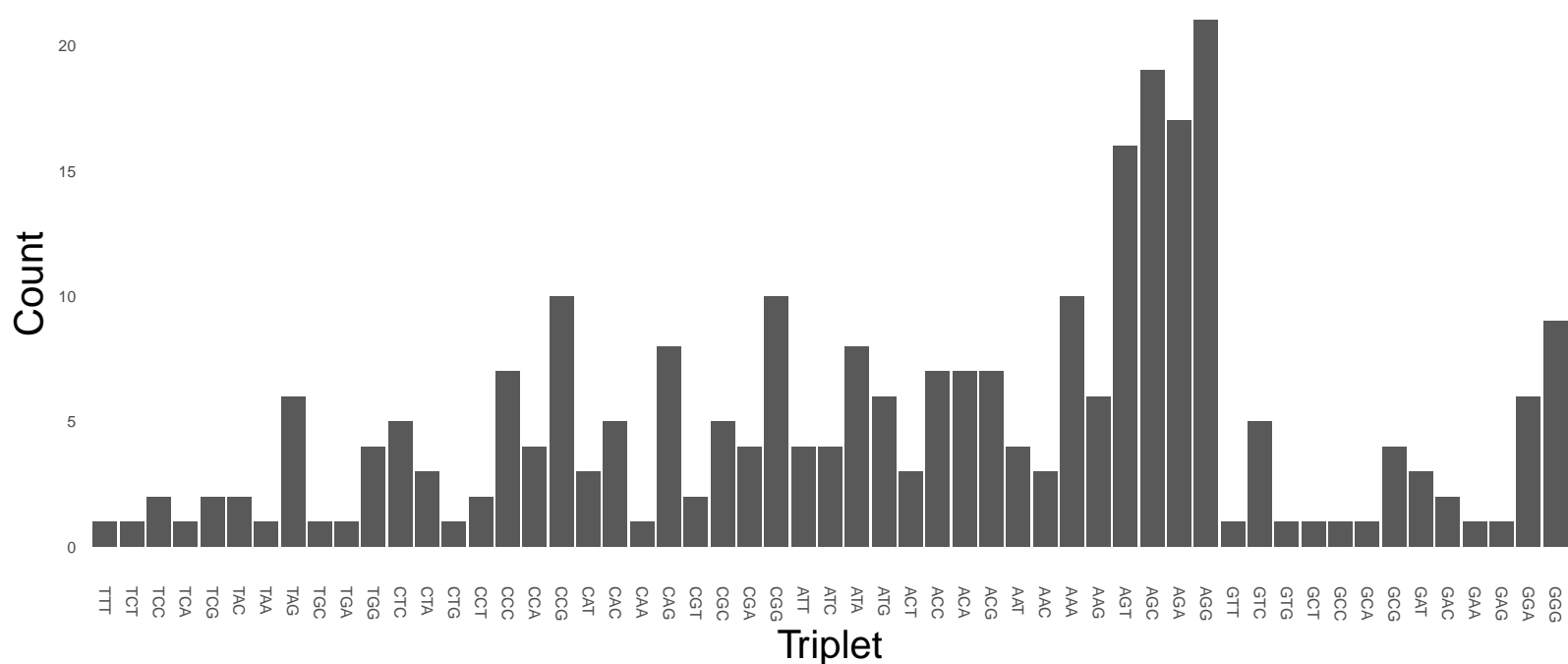
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



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

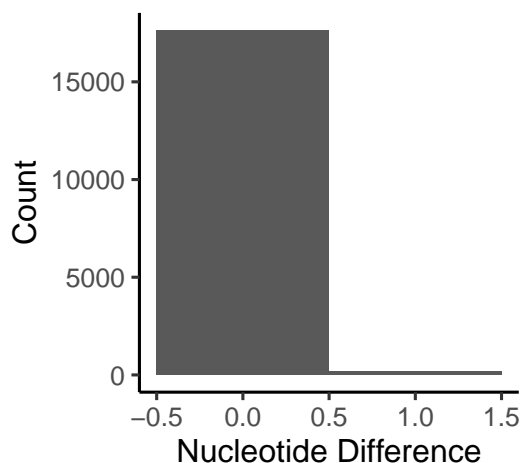


TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



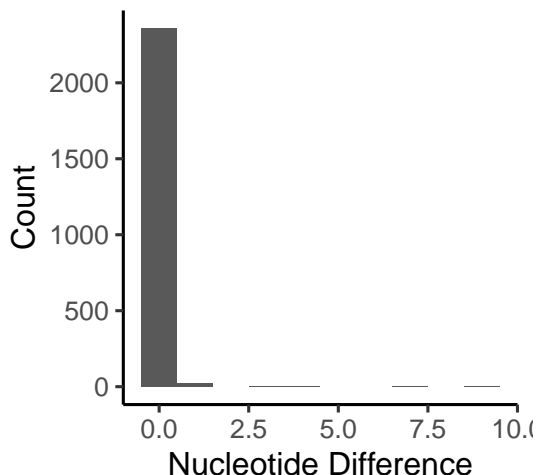
### TRBV20-1\*ap01

17827 sequences assigned  
17646 (99%) exact matches, in which:  
17402 unique CDR3  
13 unique J



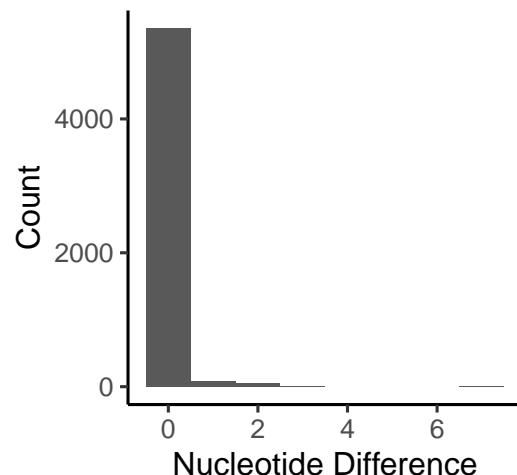
### TRBV10-2\*ap01

2387 sequences assigned  
2358 (98.8%) exact matches, in which:  
2305 unique CDR3  
13 unique J



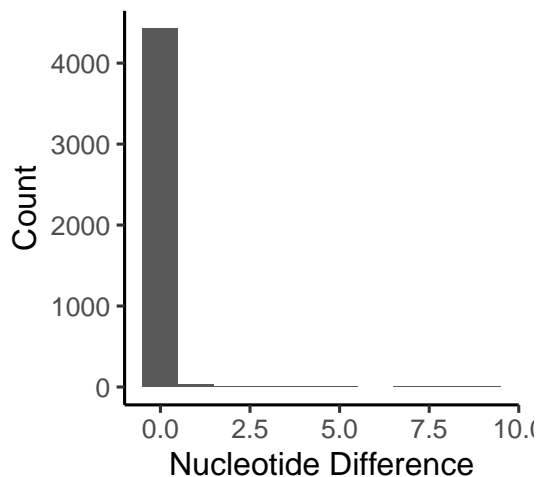
### TRBV13\*ap01

5480 sequences assigned  
5352 (97.7%) exact matches, in which:  
5212 unique CDR3  
13 unique J



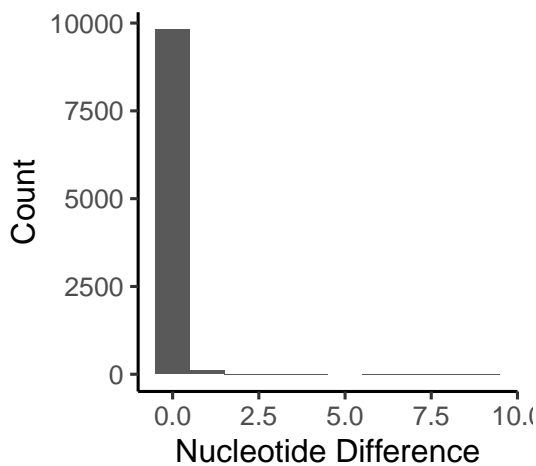
### TRBV10-1\*ap01

4472 sequences assigned  
4425 (98.9%) exact matches, in which:  
4306 unique CDR3  
13 unique J



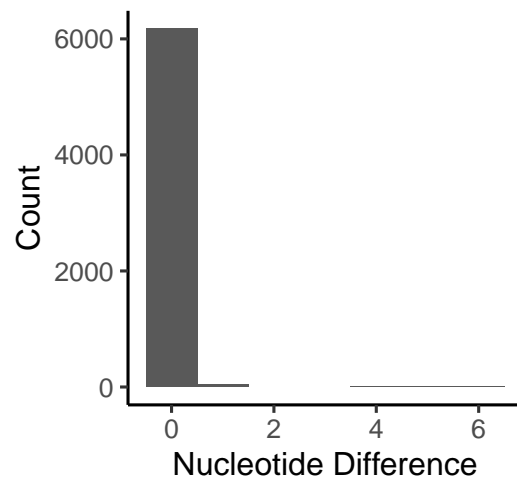
### TRBV10-3\*ap01

9940 sequences assigned  
9818 (98.8%) exact matches, in which:  
9605 unique CDR3  
13 unique J



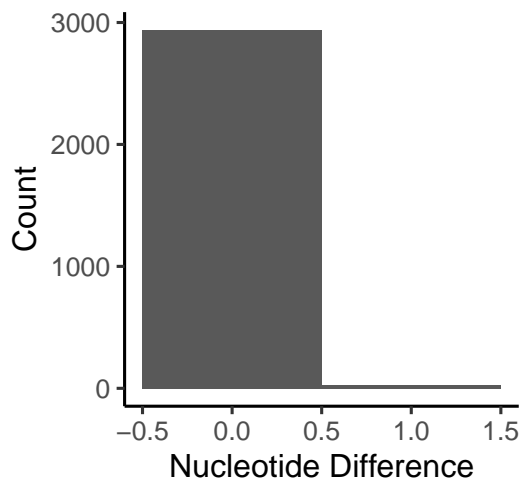
### TRBV14\*ap01

6223 sequences assigned  
6175 (99.2%) exact matches, in which:  
6091 unique CDR3  
13 unique J



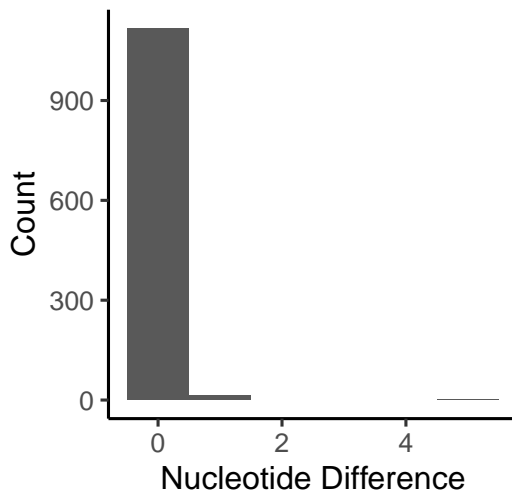
### TRBV20-1\*ap02

2963 sequences assigned  
2938 (99.2%) exact matches, in which:  
2899 unique CDR3  
13 unique J



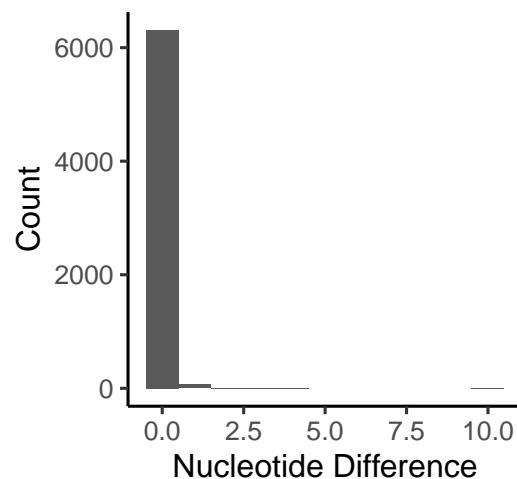
### TRBV1\*ap01

1131 sequences assigned  
1117 (98.8%) exact matches, in which:  
1092 unique CDR3  
13 unique J



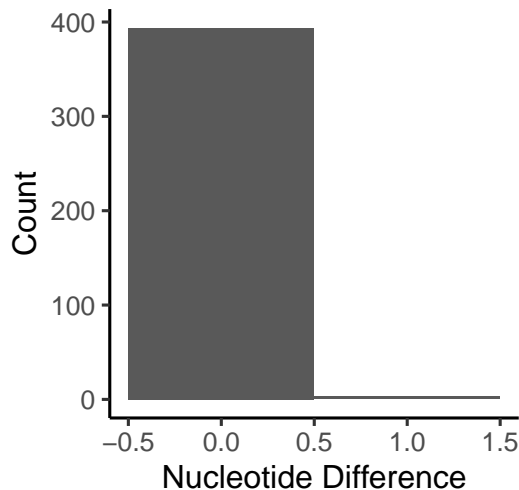
### TRBV15\*ap02

6383 sequences assigned  
6310 (98.9%) exact matches, in which:  
6196 unique CDR3  
13 unique J



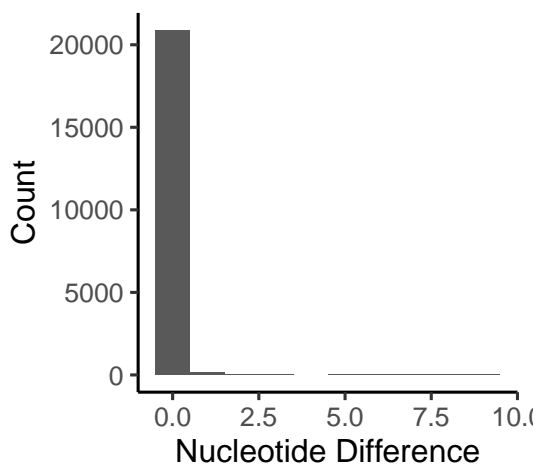
### TRBV16\*ap01

397 sequences assigned  
394 (99.2%) exact matches, in which:  
389 unique CDR3  
13 unique J



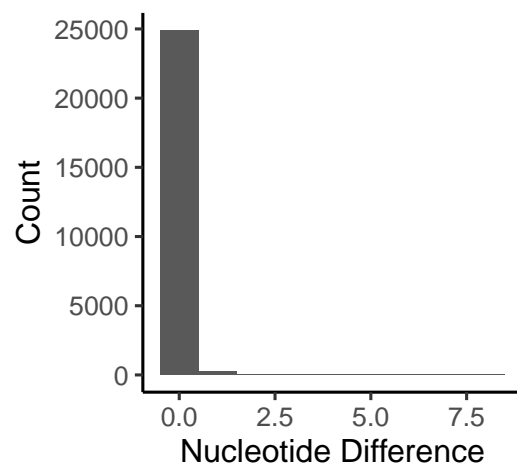
### TRBV19\*ap01

21090 sequences assigned  
20885 (99%) exact matches, in which:  
20725 unique CDR3  
13 unique J



### TRBV27\*ap01

25225 sequences assigned  
24912 (98.8%) exact matches, in which:  
24375 unique CDR3  
13 unique J



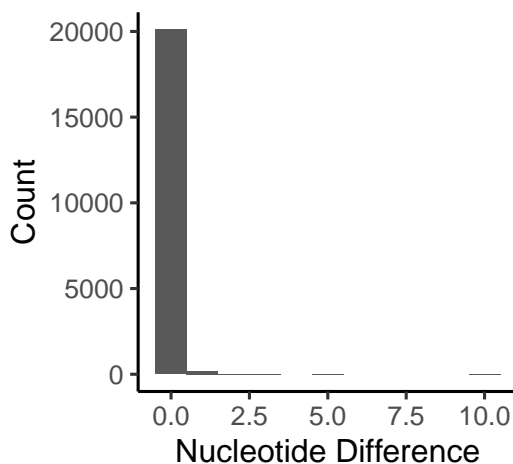
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



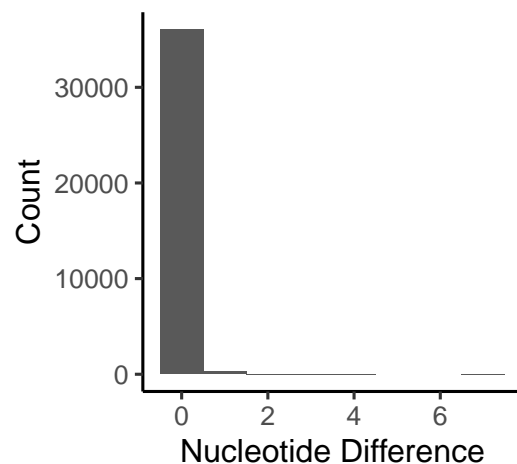
### TRBV2\*ap01

20327 sequences assigned  
20115 (99%) exact matches, in which:  
19686 unique CDR3  
13 unique J



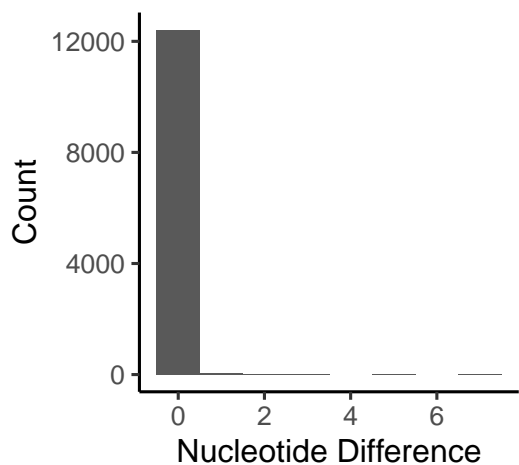
### TRBV28\*ap01

36351 sequences assigned  
36048 (99.2%) exact matches, in which:  
35562 unique CDR3  
13 unique J



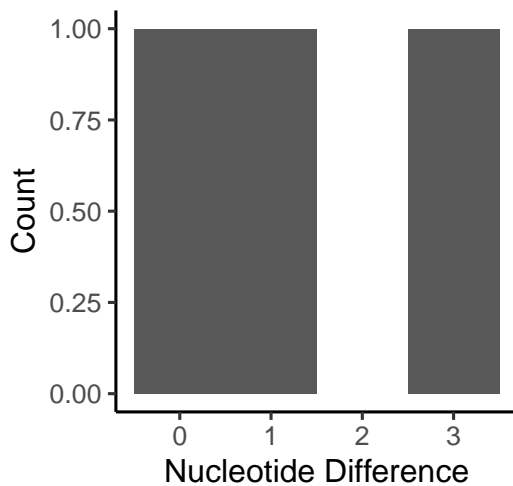
### TRBV18\*ap01

12474 sequences assigned  
12416 (99.5%) exact matches, in which:  
12309 unique CDR3  
13 unique J



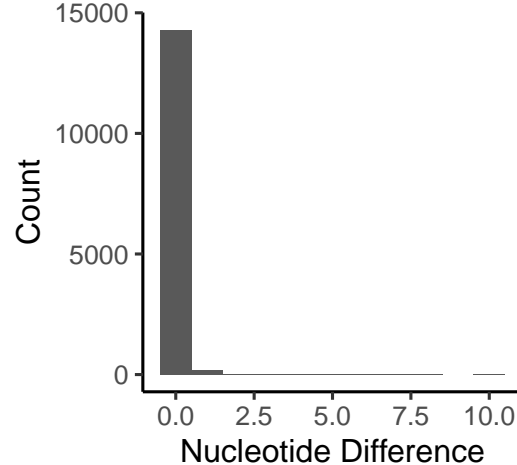
### TRBV26\*ap01

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



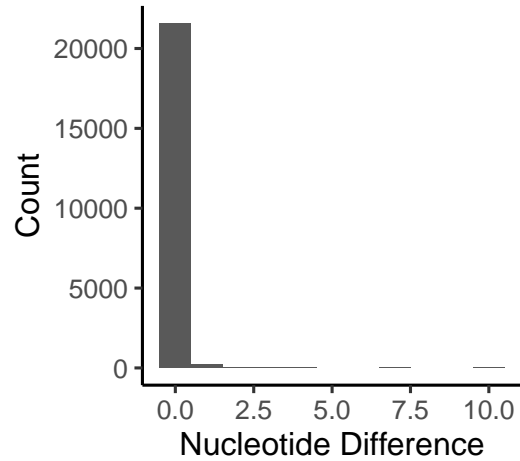
### TRBV30\*ap01

14522 sequences assigned  
14296 (98.4%) exact matches, in which:  
14046 unique CDR3  
13 unique J



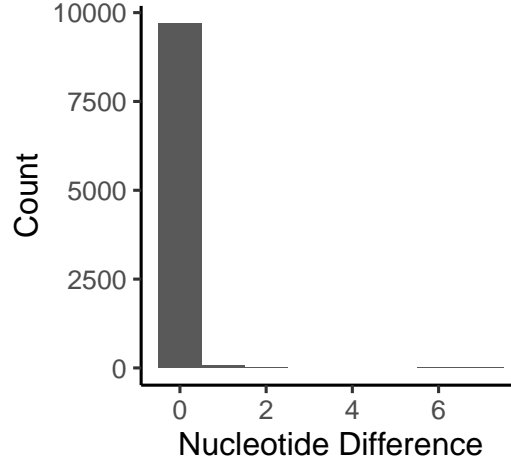
### TRBV9\*ap01

21811 sequences assigned  
21586 (99%) exact matches, in which:  
21303 unique CDR3  
13 unique J



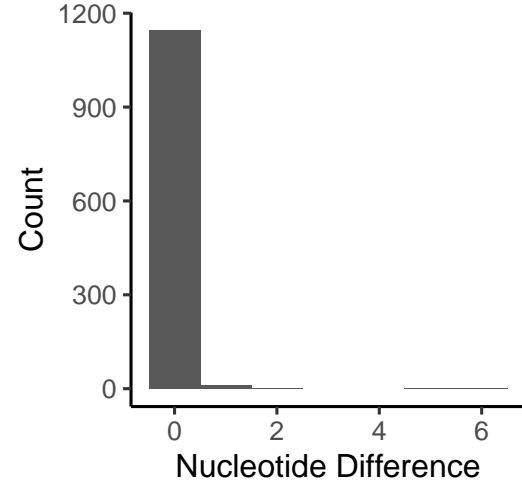
### TRBV11-2\*ap01

9786 sequences assigned  
9704 (99.2%) exact matches, in which:  
9554 unique CDR3  
13 unique J



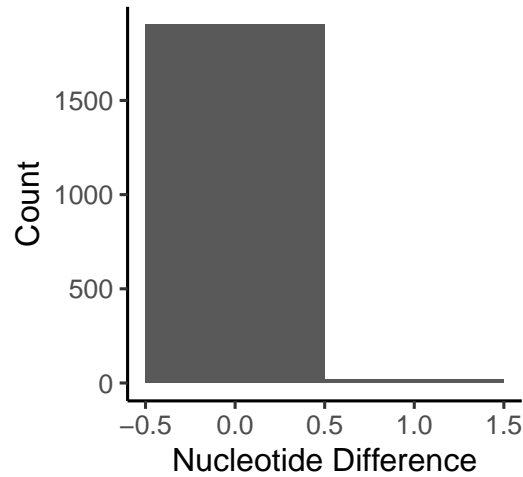
### TRBV12-2\*ap01

1163 sequences assigned  
1145 (98.5%) exact matches, in which:  
1131 unique CDR3  
13 unique J



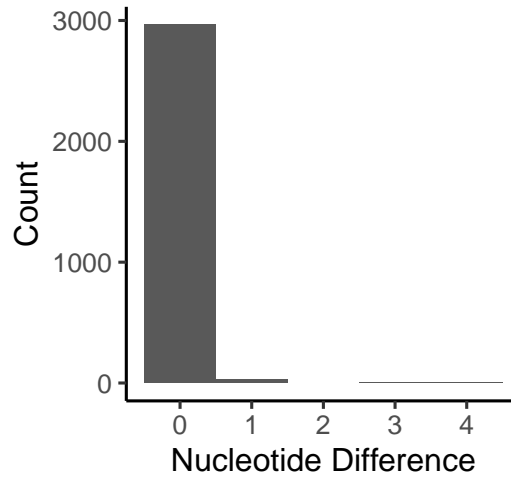
### TRBV11-1\*ap01

1920 sequences assigned  
1902 (99.1%) exact matches, in which:  
1869 unique CDR3  
13 unique J



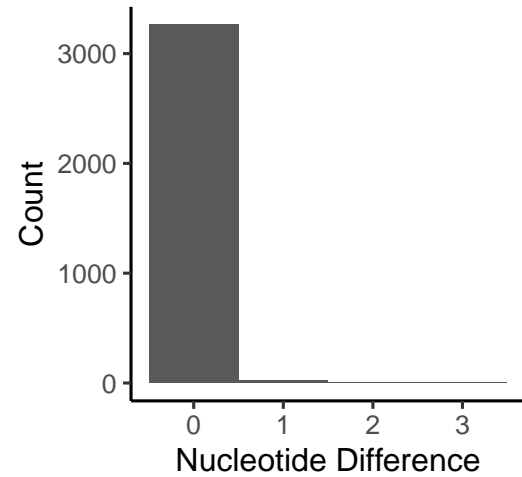
### TRBV11-3\*ap01

2997 sequences assigned  
2965 (98.9%) exact matches, in which:  
2936 unique CDR3  
13 unique J



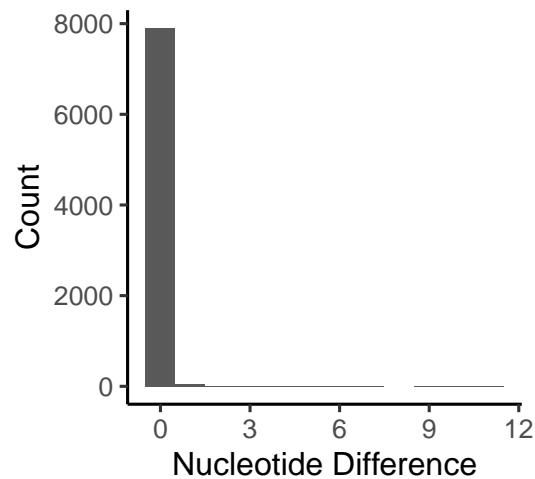
### TRBV12-5\*ap01

3284 sequences assigned  
3263 (99.4%) exact matches, in which:  
3214 unique CDR3  
13 unique J



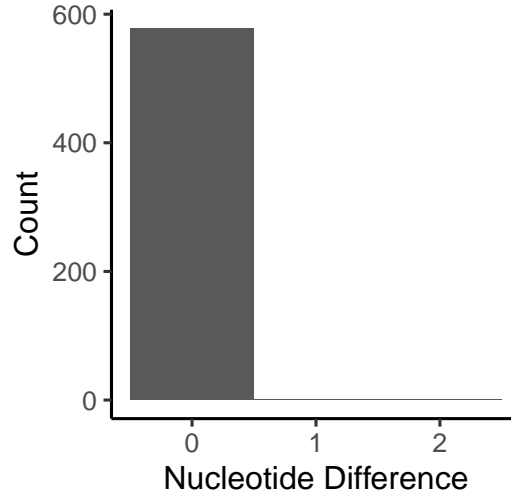
### TRBV21-1\*ap01

7996 sequences assigned  
7903 (98.8%) exact matches, in which:  
7821 unique CDR3  
13 unique J



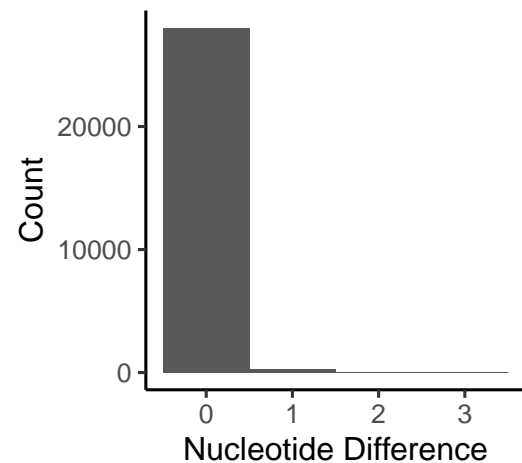
### TRBV12-1\*ap01

580 sequences assigned  
578 (99.7%) exact matches, in which:  
572 unique CDR3  
13 unique J



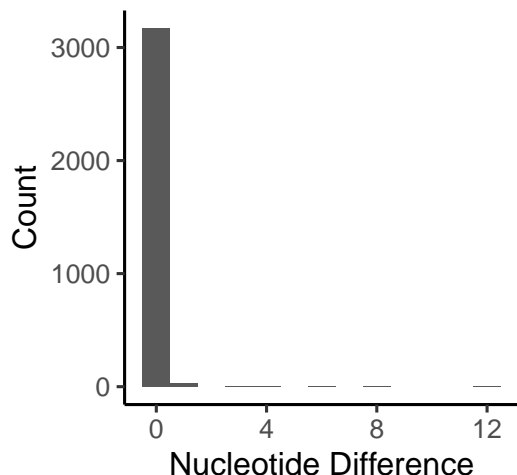
### TRBV12-34\*ap01

28289 sequences assigned  
28026 (99.1%) exact matches, in which:  
27487 unique CDR3  
13 unique J



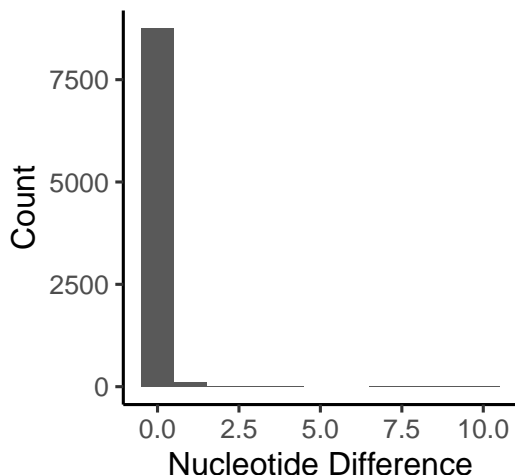
### TRBV23-1\*ap01

3207 sequences assigned  
3169 (98.8%) exact matches, in which:  
3129 unique CDR3  
13 unique J



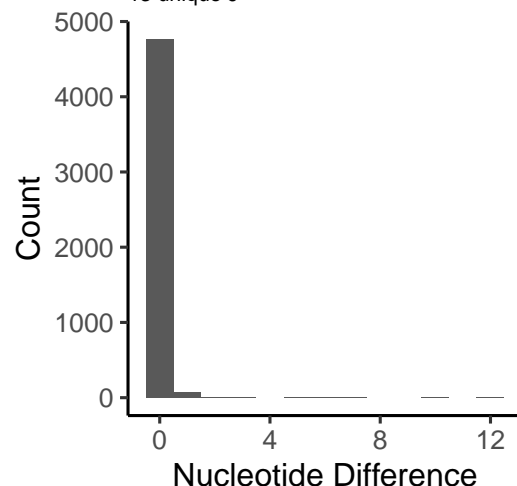
### TRBV24-1\*ap01

8876 sequences assigned  
8752 (98.6%) exact matches, in which:  
8576 unique CDR3  
13 unique J



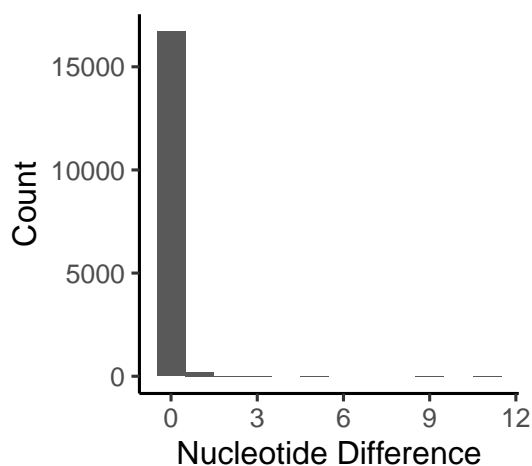
### TRBV25-1\*ap01

4847 sequences assigned  
4762 (98.2%) exact matches, in which:  
4666 unique CDR3  
13 unique J



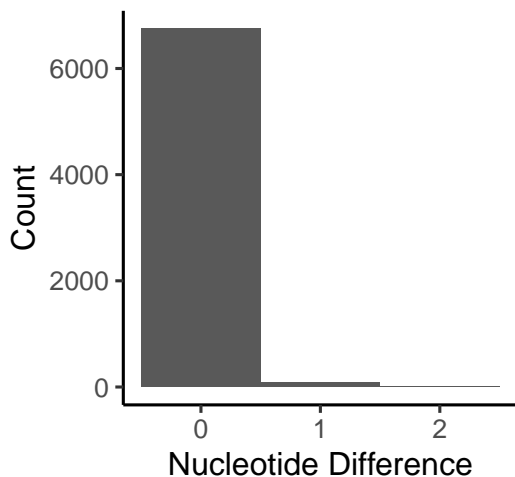
### TRBV3-12\*ap01

16935 sequences assigned  
16711 (98.7%) exact matches, in which:  
16338 unique CDR3  
13 unique J



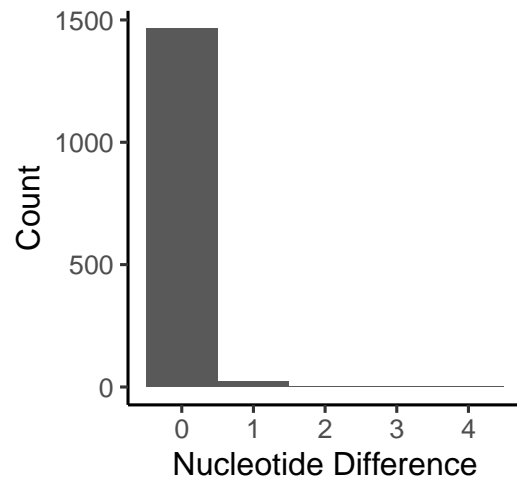
### TRBV4-2\*ap01

6840 sequences assigned  
6749 (98.7%) exact matches, in which:  
6582 unique CDR3  
13 unique J



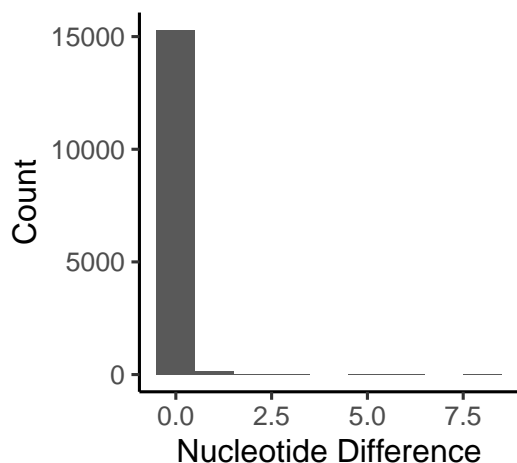
### TRBV5-3\*ap01

1491 sequences assigned  
1464 (98.2%) exact matches, in which:  
1443 unique CDR3  
13 unique J



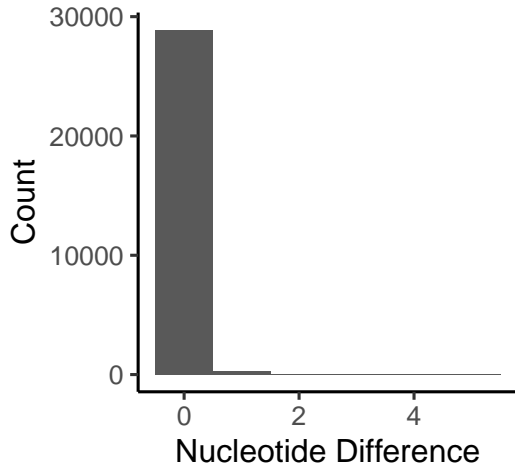
### TRBV4-1\*ap01

15451 sequences assigned  
15302 (99%) exact matches, in which:  
14957 unique CDR3  
13 unique J



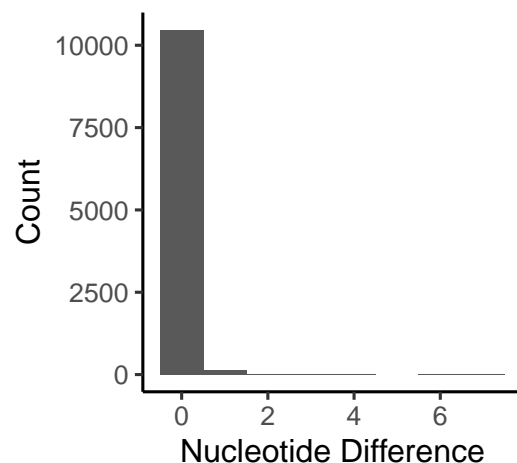
### TRBV5-1\*ap01

29201 sequences assigned  
28899 (99%) exact matches, in which:  
28203 unique CDR3  
13 unique J



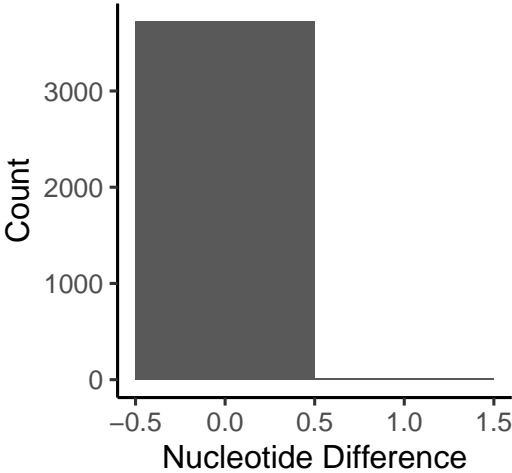
### TRBV5-4\*ap01

10612 sequences assigned  
10470 (98.7%) exact matches, in which:  
10224 unique CDR3  
13 unique J



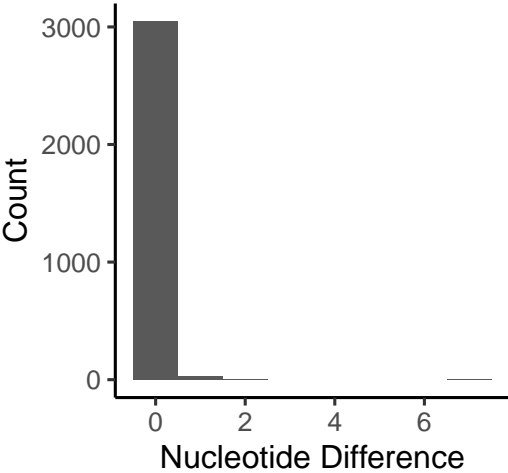
TRBV5-5\*ap01

3742 sequences assigned  
3723 (99.5%) exact matches, in which:  
3707 unique CDR3  
13 unique J



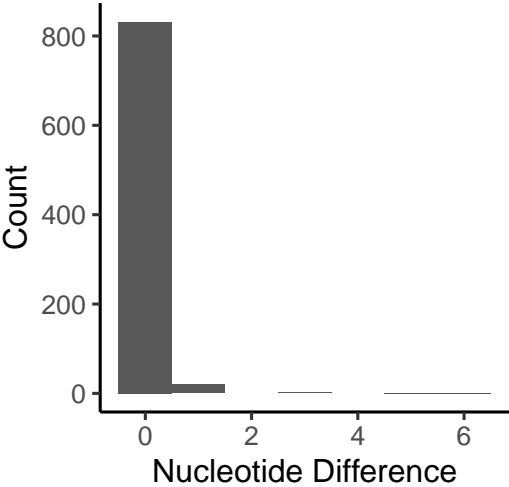
TRBV5-8\*ap01

3079 sequences assigned  
3047 (99%) exact matches, in which:  
3005 unique CDR3  
13 unique J



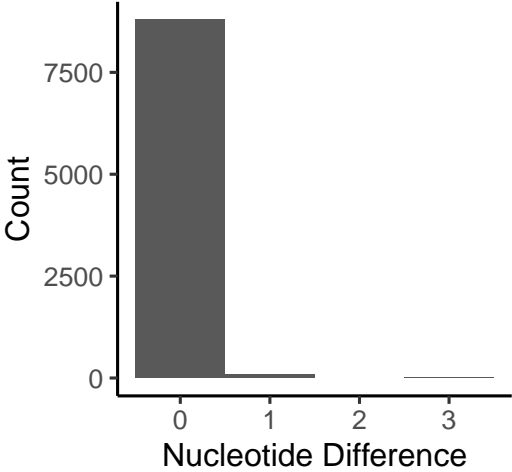
TRBV6-7\*ap01

856 sequences assigned  
832 (97.2%) exact matches, in which:  
820 unique CDR3  
13 unique J



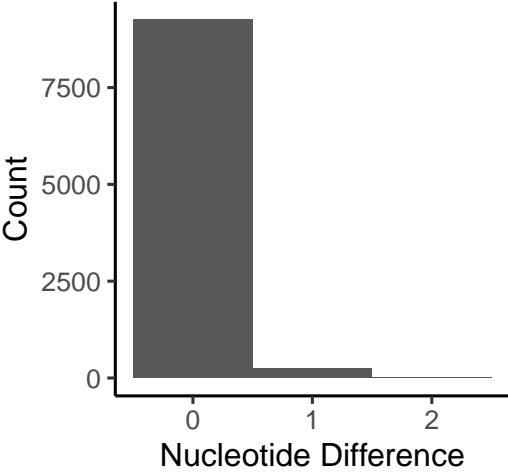
TRBV5-6\*ap01

8888 sequences assigned  
8792 (98.9%) exact matches, in which:  
8565 unique CDR3  
13 unique J



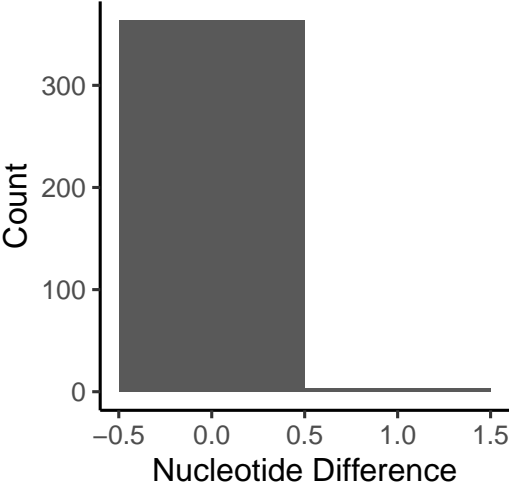
TRBV6-1\*ap01

9490 sequences assigned  
9252 (97.5%) exact matches, in which:  
9051 unique CDR3  
13 unique J



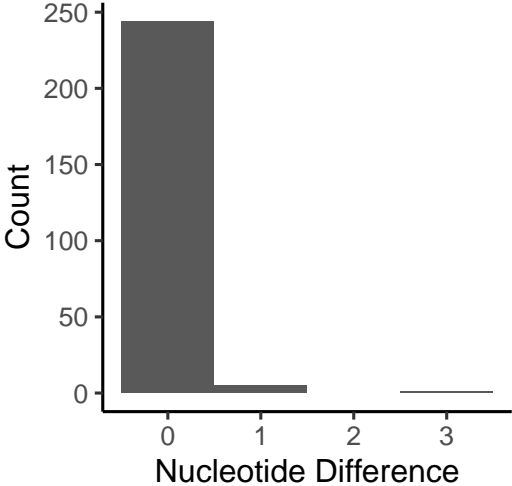
TRBV6-8\*ap01

367 sequences assigned  
364 (99.2%) exact matches, in which:  
358 unique CDR3  
13 unique J



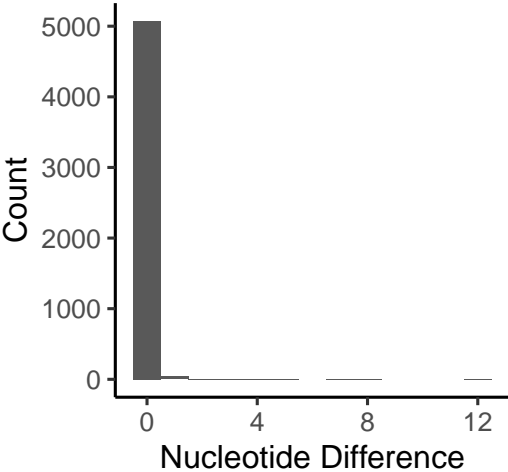
TRBV5-7\*ap01

250 sequences assigned  
244 (97.6%) exact matches, in which:  
240 unique CDR3  
13 unique J



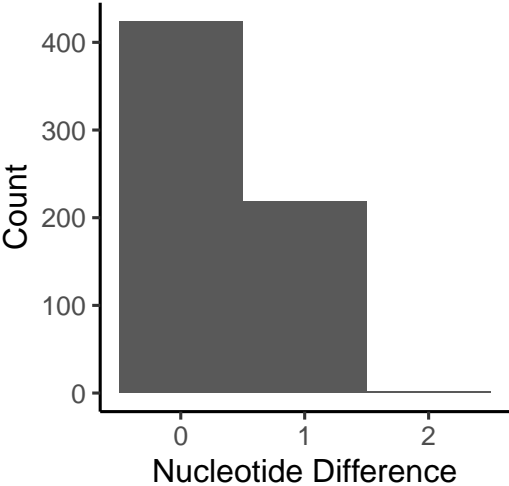
TRBV6-4\*ap01

5131 sequences assigned  
5073 (98.9%) exact matches, in which:  
4980 unique CDR3  
13 unique J



TRBV6-9\*ap01

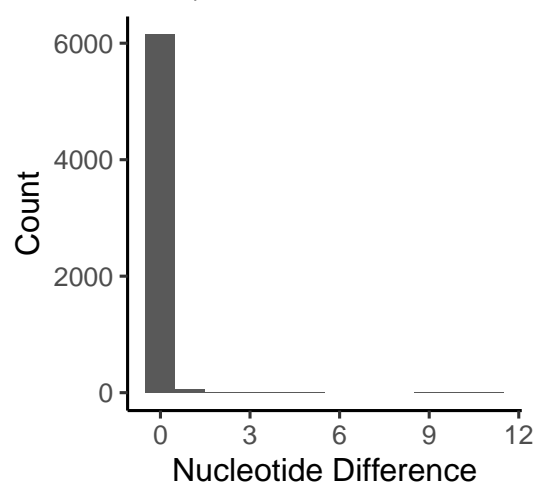
645 sequences assigned  
424 (65.7%) exact matches, in which:  
414 unique CDR3  
13 unique J





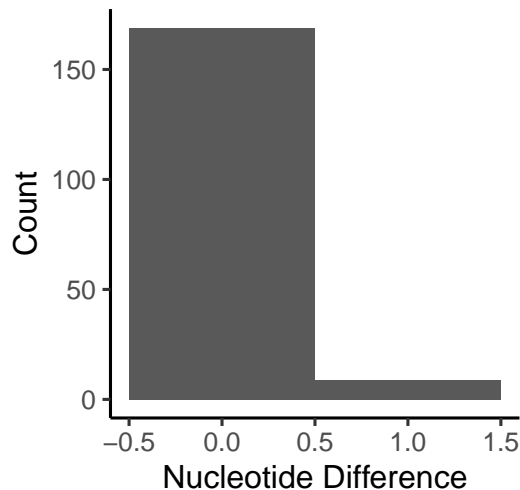
### TRBV6-23\*ap01

6222 sequences assigned  
6151 (98.9%) exact matches, in which:  
5966 unique CDR3  
13 unique J



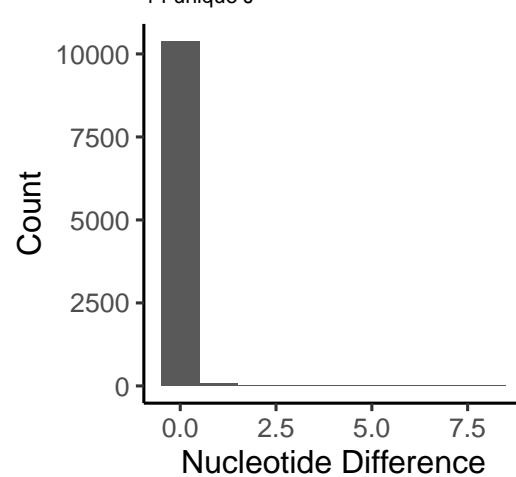
### TRBV7-1\*ap01\_G291C\_

178 sequences assigned  
169 (94.9%) exact matches, in which:  
168 unique CDR3  
13 unique J



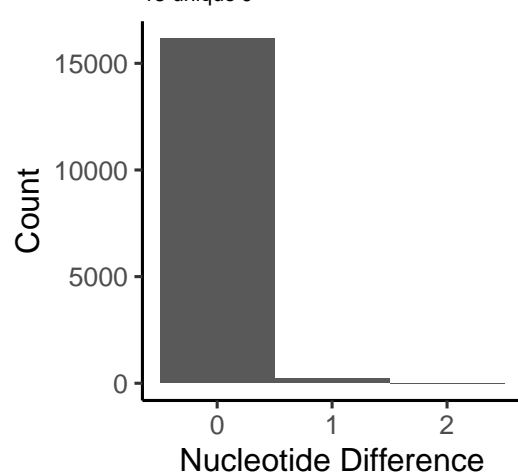
### TRBV7-3\*ap01

10465 sequences assigned  
10385 (99.2%) exact matches, in which:  
10259 unique CDR3  
14 unique J



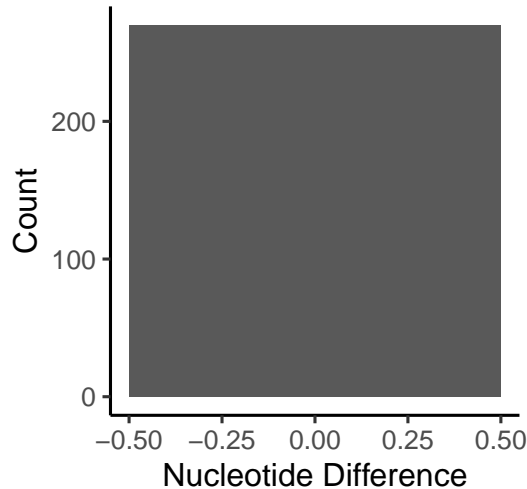
### TRBV6-56\*ap01

16392 sequences assigned  
16165 (98.6%) exact matches, in which:  
15701 unique CDR3  
13 unique J



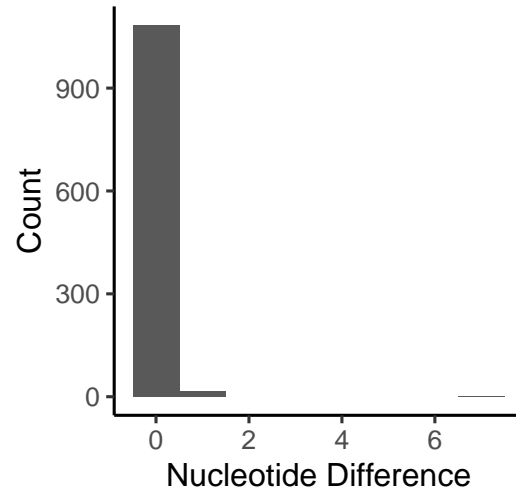
### TRBV7-1\*ap01\_G291C\_

270 sequences assigned  
270 (100%) exact matches, in which:  
265 unique CDR3  
13 unique J



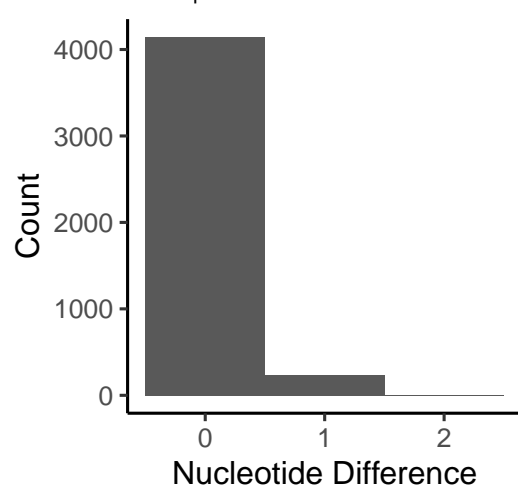
### TRBV7-4\*ap01

1100 sequences assigned  
1084 (98.5%) exact matches, in which:  
1071 unique CDR3  
13 unique J



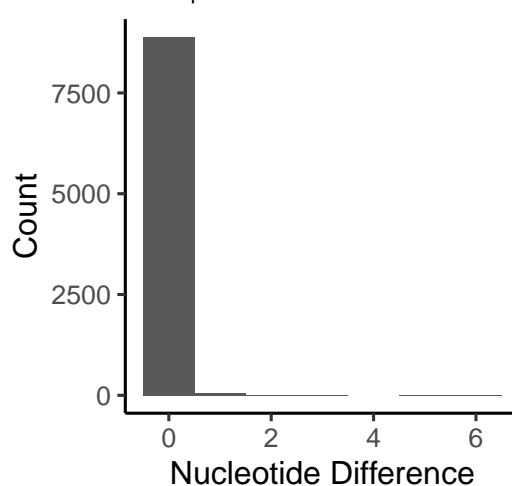
### TRBV6-56\*ap02

4382 sequences assigned  
4144 (94.6%) exact matches, in which:  
4048 unique CDR3  
13 unique J



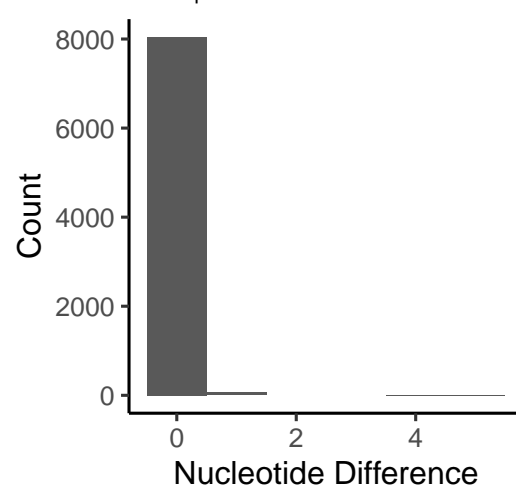
### TRBV7-2\*ap01

8947 sequences assigned  
8886 (99.3%) exact matches, in which:  
8751 unique CDR3  
13 unique J



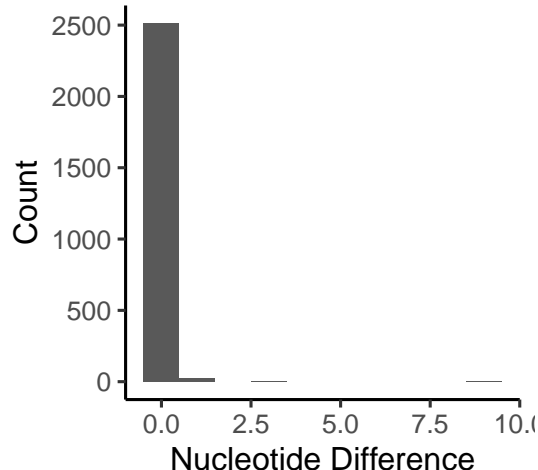
### TRBV7-6\*ap01

8108 sequences assigned  
8044 (99.2%) exact matches, in which:  
7924 unique CDR3  
13 unique J



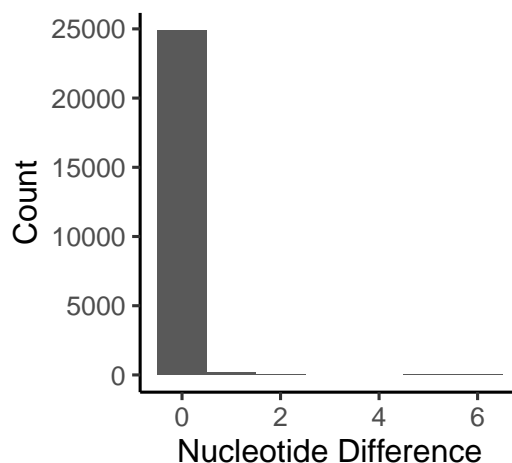
### TRBV7-7\*ap01

2536 sequences assigned  
2512 (99.1%) exact matches, in which:  
2471 unique CDR3  
13 unique J



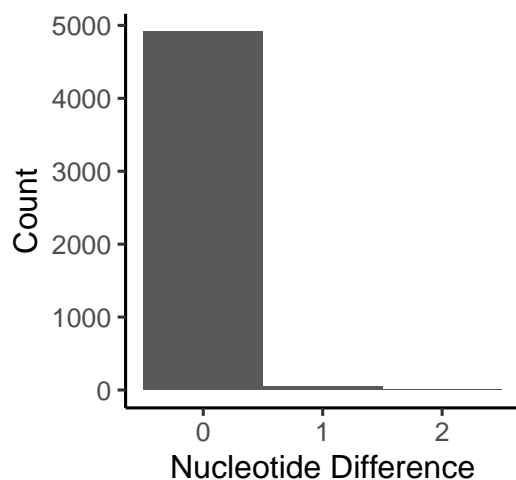
### TRBV7-9\*ap01

25099 sequences assigned  
24908 (99.2%) exact matches, in which:  
24591 unique CDR3  
13 unique J



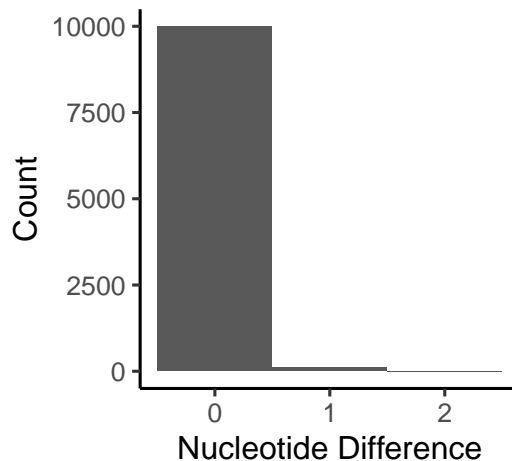
### TRBV7-8\*ap01

4962 sequences assigned  
4913 (99%) exact matches, in which:  
4823 unique CDR3  
13 unique J



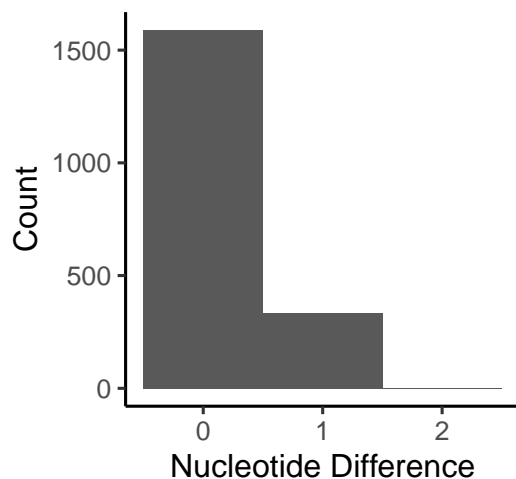
### TRBV29-1\*ap01

10104 sequences assigned  
9994 (98.9%) exact matches, in which:  
9745 unique CDR3  
13 unique J



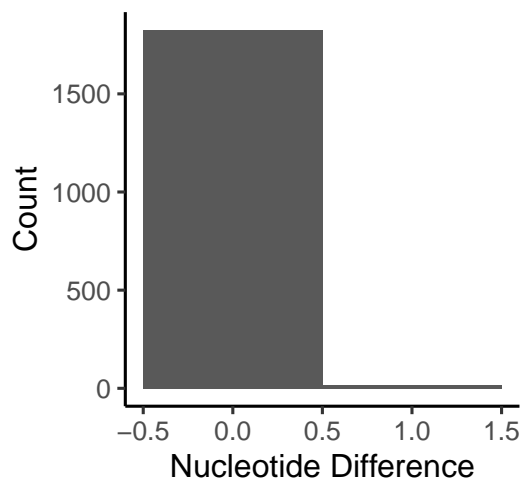
### TRBV7-8\*ap03

1924 sequences assigned  
1589 (82.6%) exact matches, in which:  
1557 unique CDR3  
13 unique J

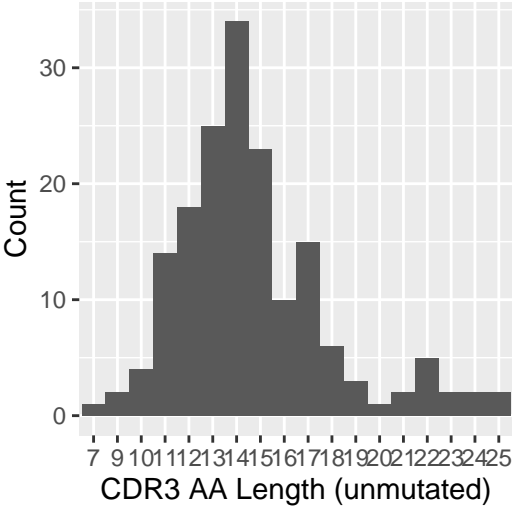


### TRBV29-1\*ap02

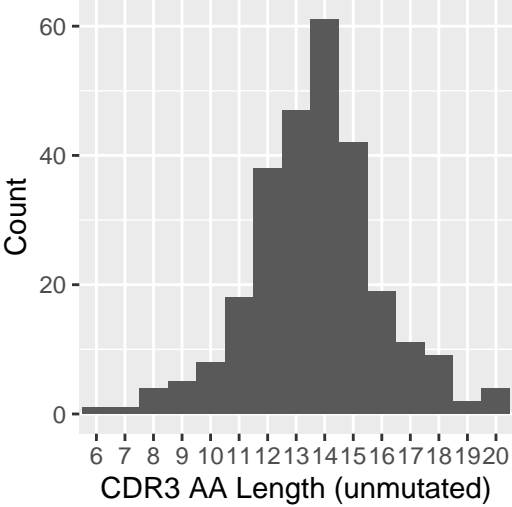
1842 sequences assigned  
1825 (99.1%) exact matches, in which:  
1787 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



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





[illegible]