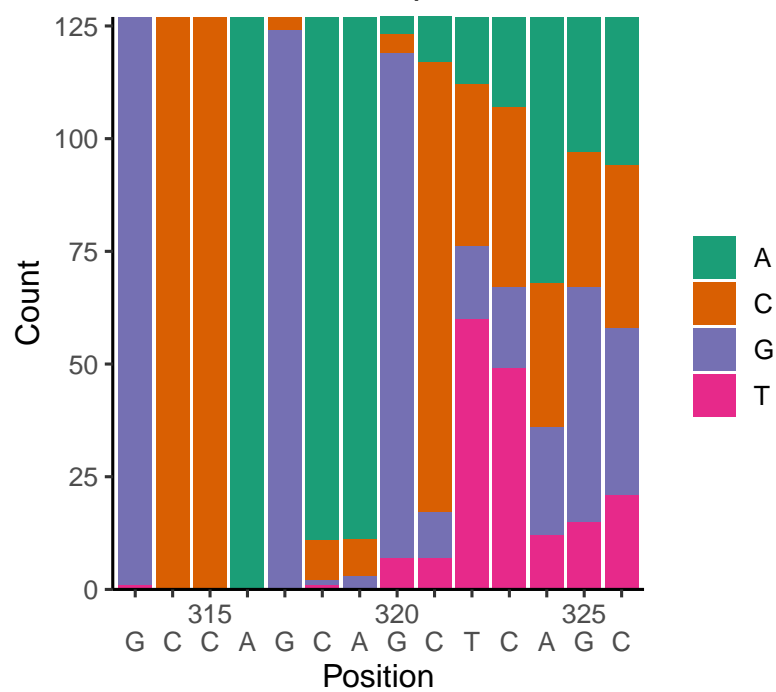
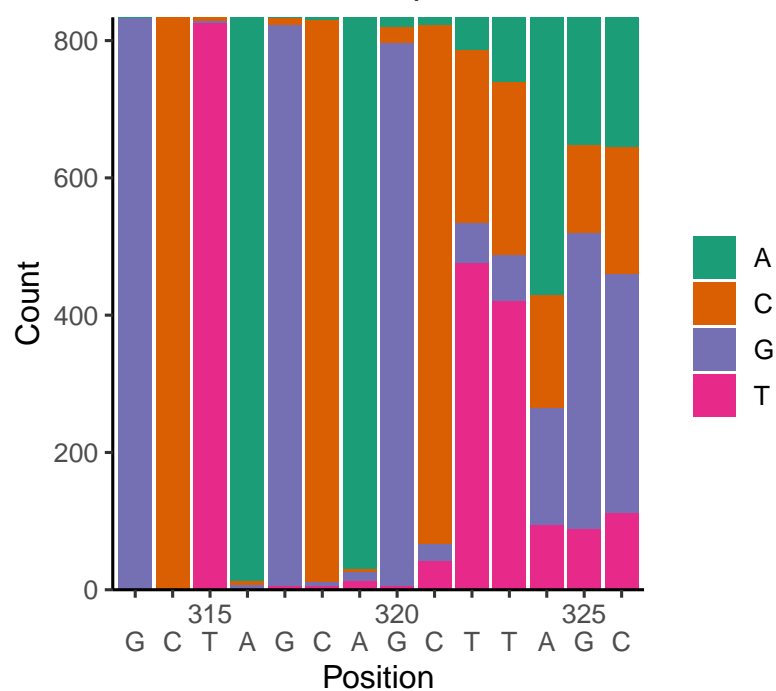


Gene TRBV7-1\*ap01\_G291C\_T296C



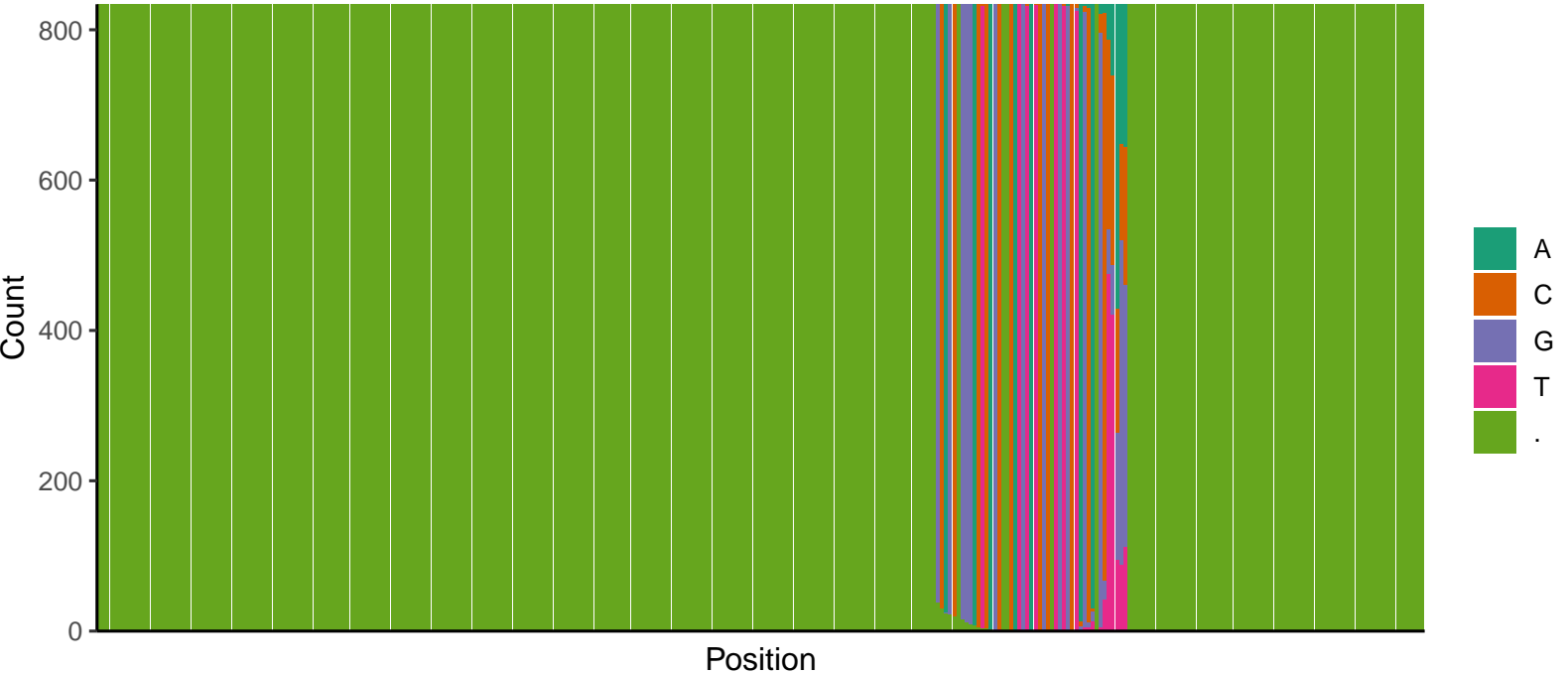
Gene TRBV7-7\*ap01\_C315T



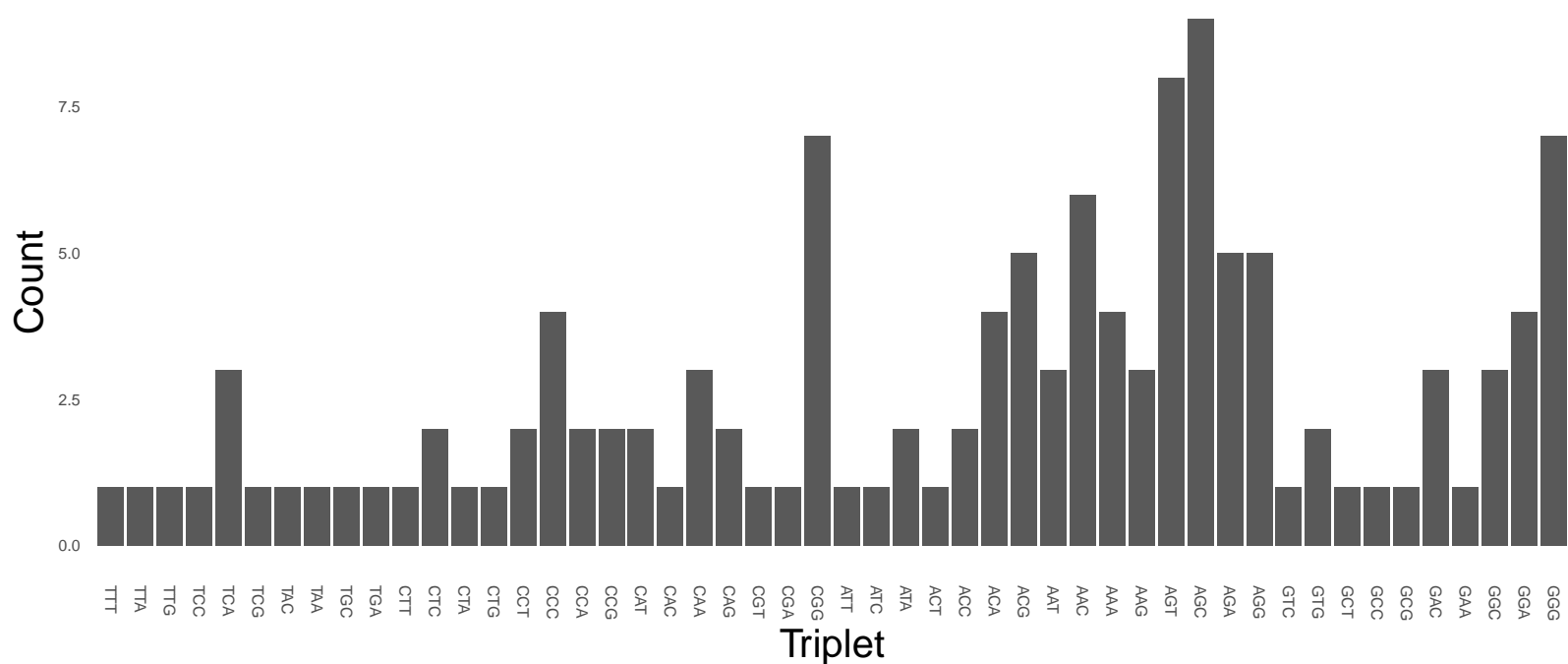
Gene TRBV7-1\*ap01\_G291C\_T296C



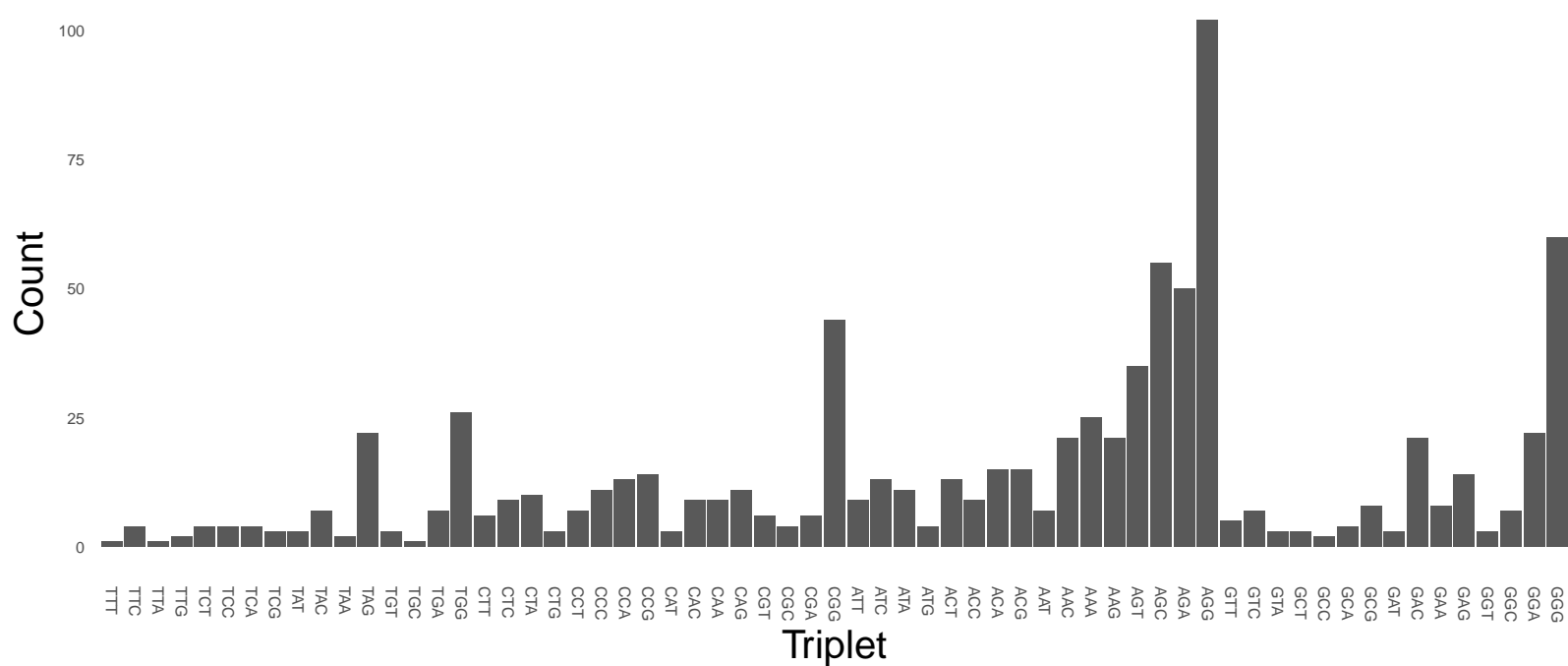
Gene TRBV7-7\*ap01\_C315T



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

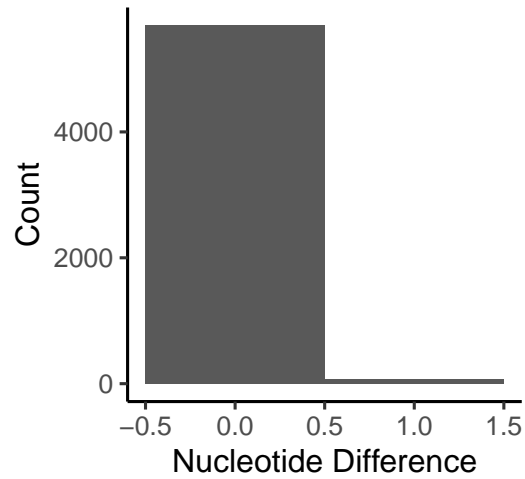


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



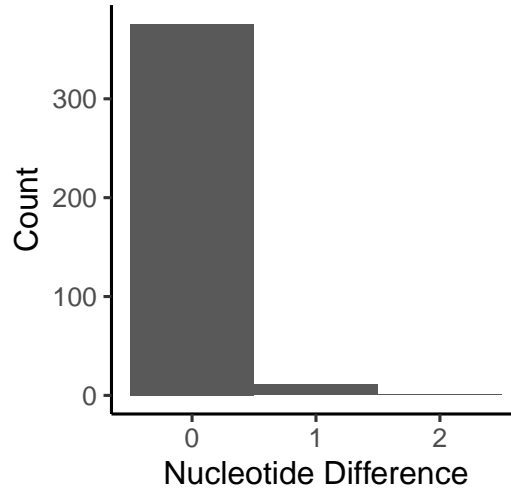
### TRBV20-1\*ap01

5771 sequences assigned  
5692 (98.6%) exact matches, in which:  
5539 unique CDR3  
13 unique J



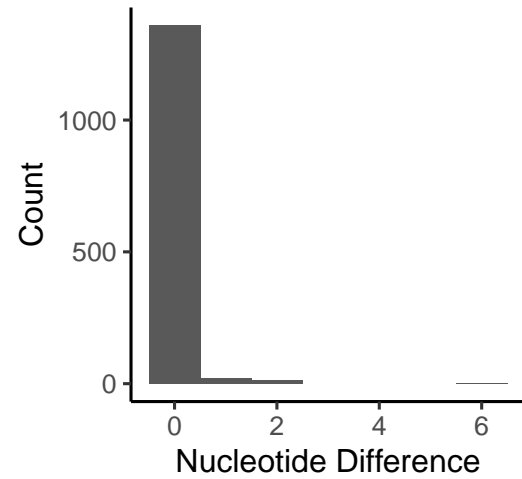
### TRBV10-2\*ap01

388 sequences assigned  
376 (96.9%) exact matches, in which:  
355 unique CDR3  
13 unique J



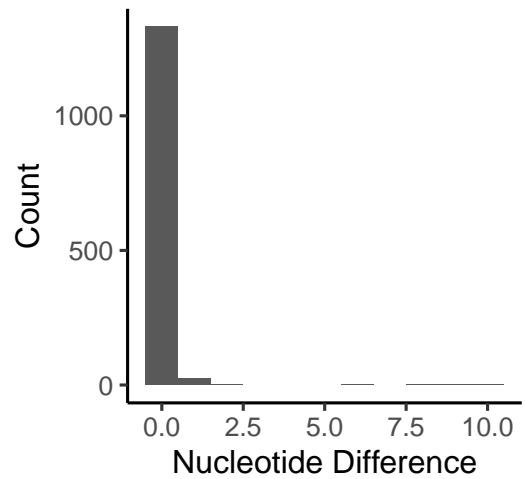
### TRBV13\*ap01

1394 sequences assigned  
1359 (97.5%) exact matches, in which:  
1313 unique CDR3  
13 unique J



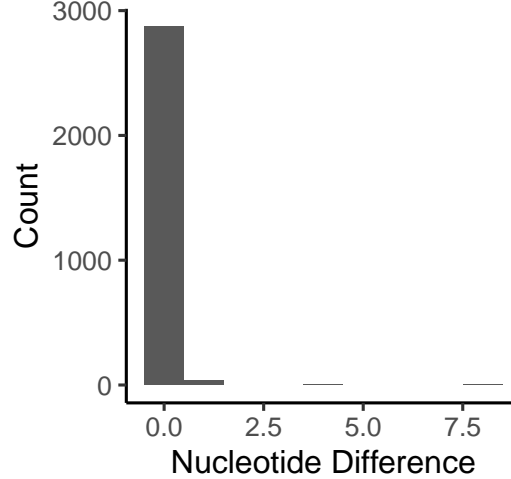
### TRBV10-1\*ap01

1359 sequences assigned  
1331 (97.9%) exact matches, in which:  
1283 unique CDR3  
13 unique J



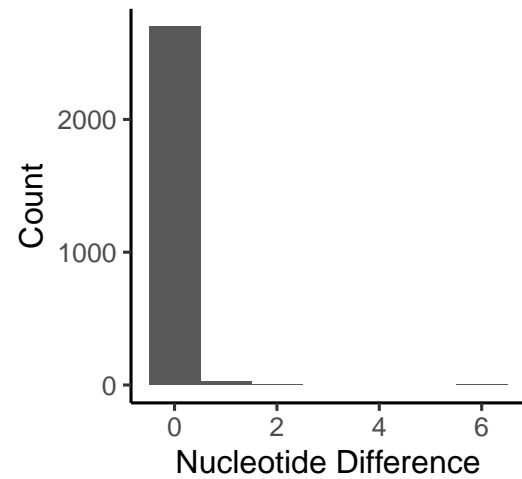
### TRBV10-3\*ap01

2906 sequences assigned  
2871 (98.8%) exact matches, in which:  
2772 unique CDR3  
13 unique J



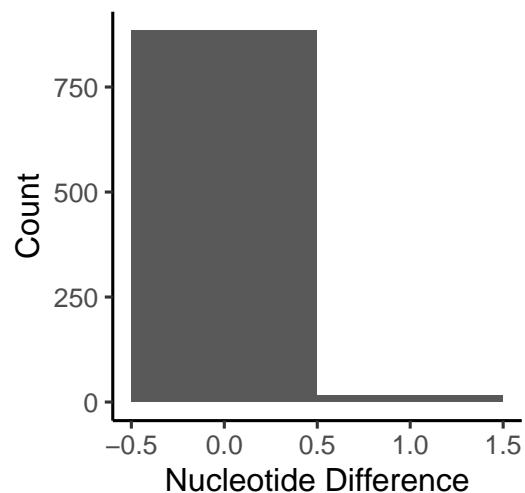
### TRBV14\*ap01

2725 sequences assigned  
2698 (99%) exact matches, in which:  
2621 unique CDR3  
13 unique J



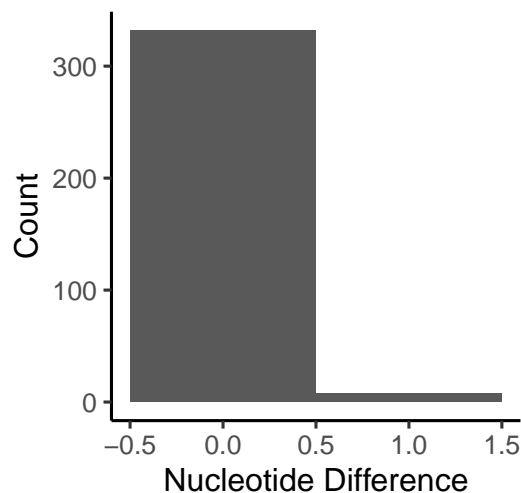
### TRBV20-1\*ap02

900 sequences assigned  
885 (98.3%) exact matches, in which:  
851 unique CDR3  
13 unique J



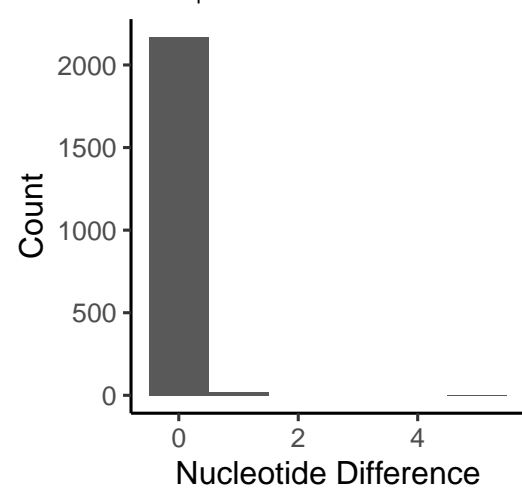
### TRBV1\*ap01

340 sequences assigned  
332 (97.6%) exact matches, in which:  
319 unique CDR3  
13 unique J



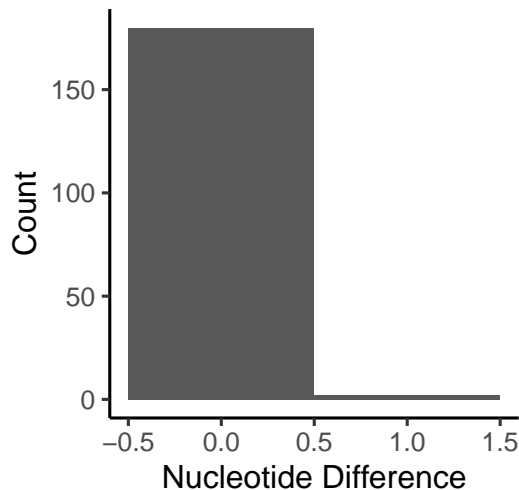
### TRBV15\*ap02

2191 sequences assigned  
2169 (99%) exact matches, in which:  
2093 unique CDR3  
13 unique J



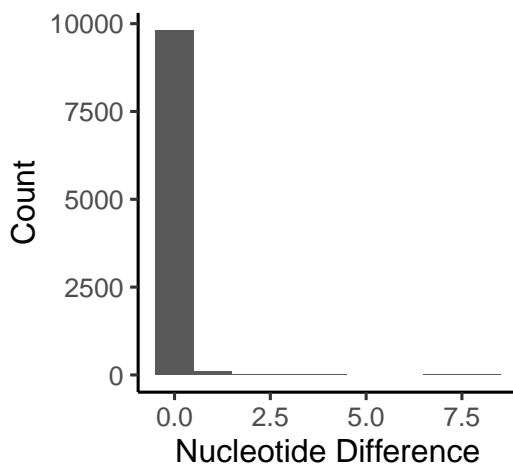
### TRBV16\*ap01

182 sequences assigned  
180 (98.9%) exact matches, in which:  
174 unique CDR3  
13 unique J



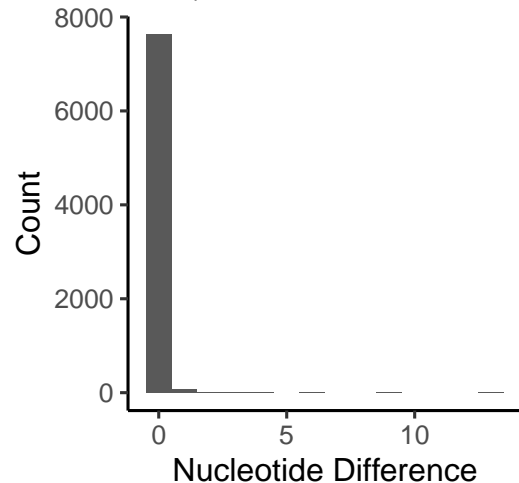
### TRBV19\*ap01

9935 sequences assigned  
9815 (98.8%) exact matches, in which:  
9601 unique CDR3  
13 unique J



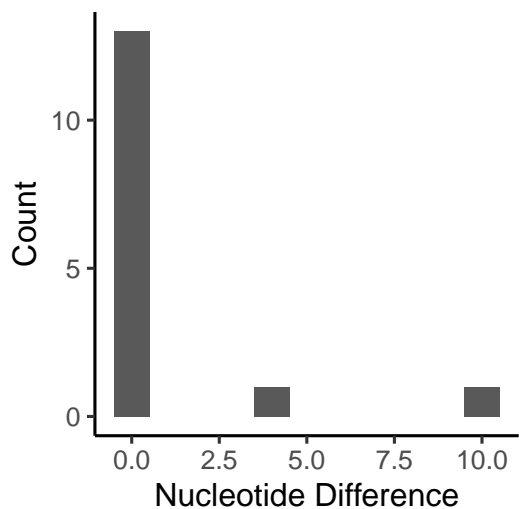
### TRBV27\*ap01

7721 sequences assigned  
7629 (98.8%) exact matches, in which:  
7380 unique CDR3  
13 unique J



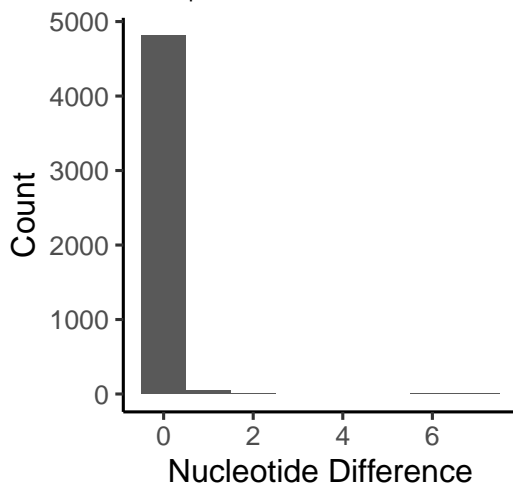
### TRBV17\*ap01

15 sequences assigned  
13 (86.7%) exact matches, in which:  
13 unique CDR3  
8 unique J



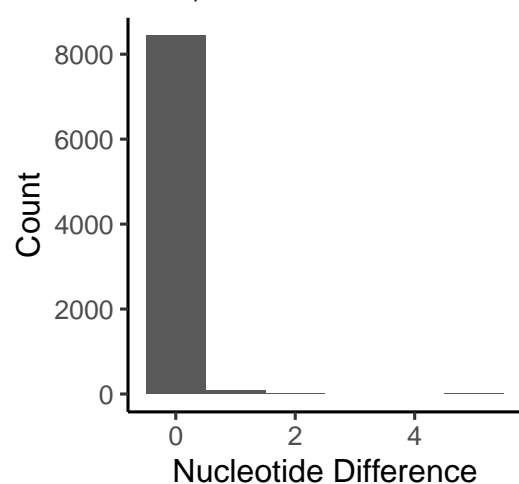
### TRBV2\*ap01

4857 sequences assigned  
4810 (99%) exact matches, in which:  
4649 unique CDR3  
13 unique J



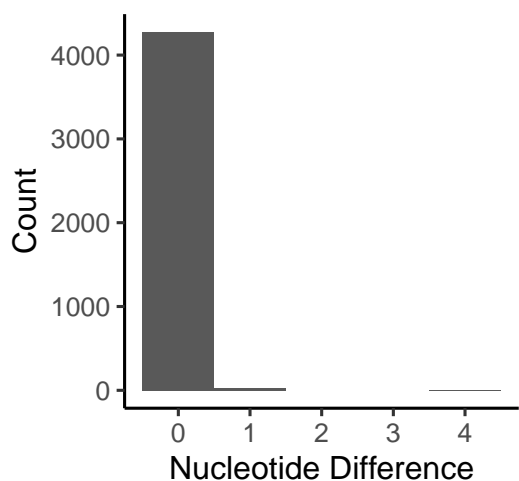
### TRBV28\*ap01

8516 sequences assigned  
8435 (99%) exact matches, in which:  
8202 unique CDR3  
13 unique J



### TRBV18\*ap01

4304 sequences assigned  
4275 (99.3%) exact matches, in which:  
4198 unique CDR3  
13 unique J



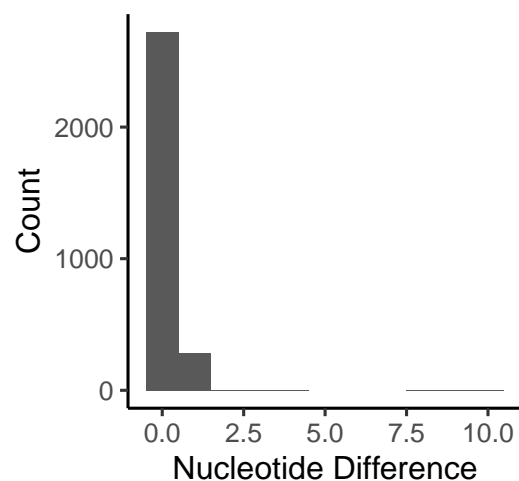
### TRBV26\*ap01

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



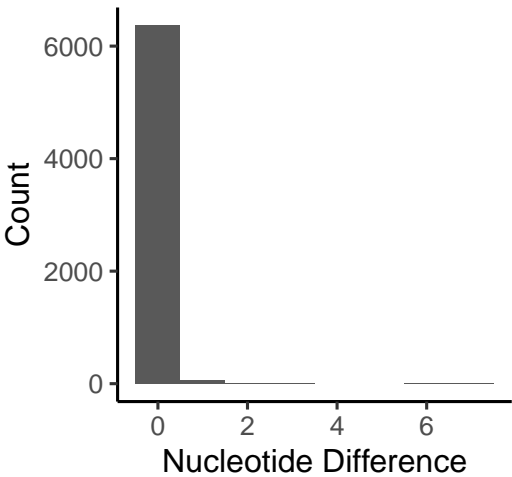
### TRBV30\*ap01

3012 sequences assigned  
2722 (90.4%) exact matches, in which:  
2653 unique CDR3  
13 unique J



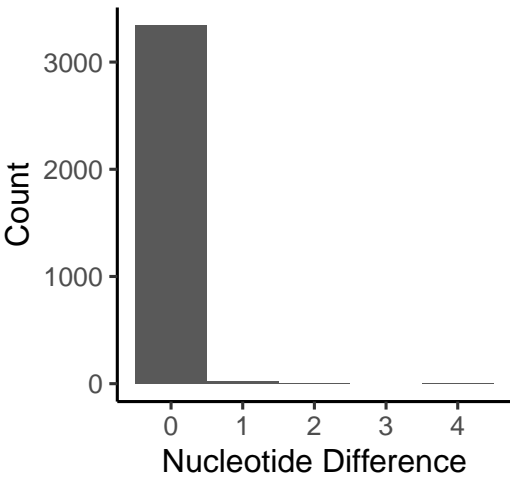
TRBV9\*ap01

6426 sequences assigned  
6368 (99.1%) exact matches, in which:  
6198 unique CDR3  
13 unique J



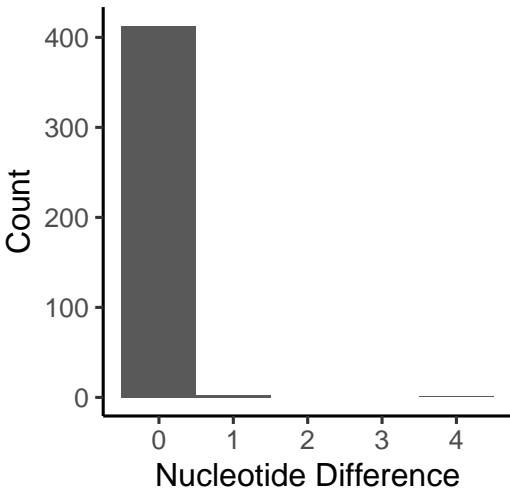
TRBV11-2\*ap01

3368 sequences assigned  
3342 (99.2%) exact matches, in which:  
3274 unique CDR3  
13 unique J



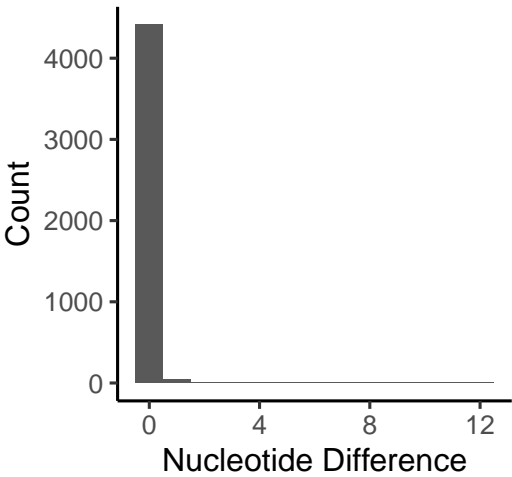
TRBV12-2\*ap01

417 sequences assigned  
413 (99%) exact matches, in which:  
399 unique CDR3  
13 unique J



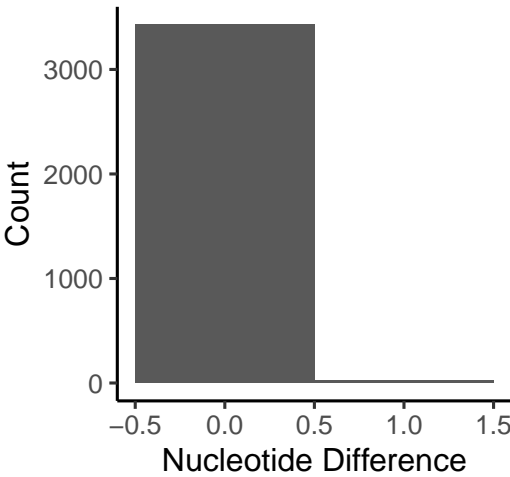
TRBV21-1\*ap01

4481 sequences assigned  
4412 (98.5%) exact matches, in which:  
4312 unique CDR3  
13 unique J



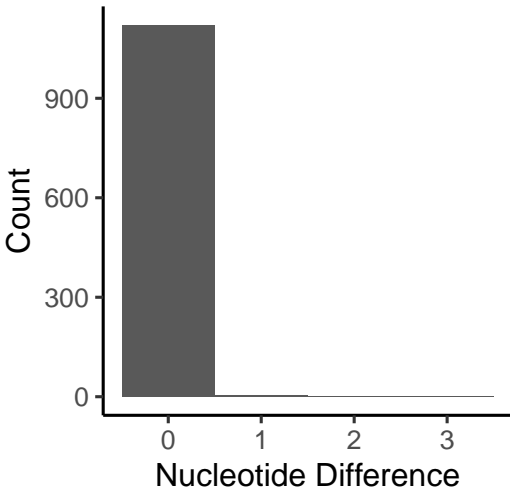
TRBV11-3\*ap01

3451 sequences assigned  
3428 (99.3%) exact matches, in which:  
3363 unique CDR3  
13 unique J



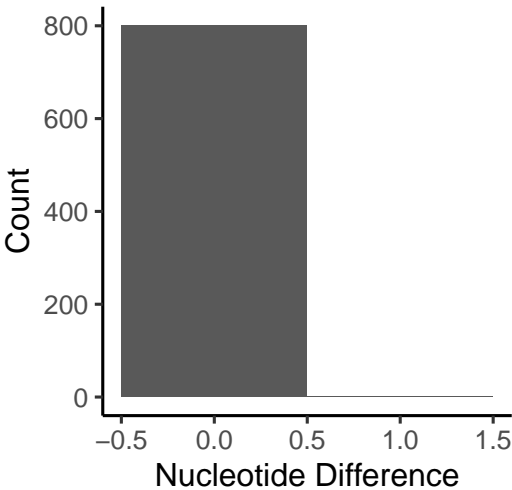
TRBV12-5\*ap01

1129 sequences assigned  
1121 (99.3%) exact matches, in which:  
1084 unique CDR3  
13 unique J



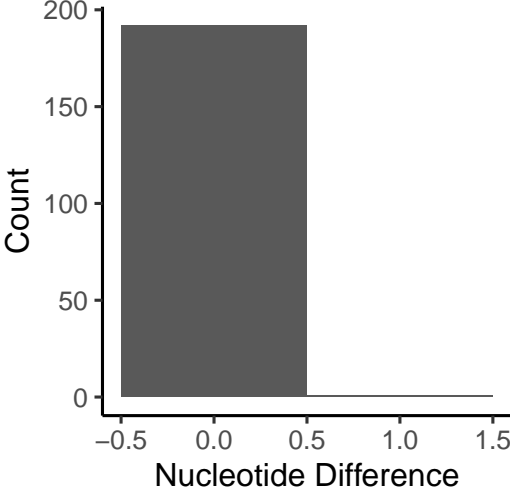
TRBV11-1\*ap01

803 sequences assigned  
801 (99.8%) exact matches, in which:  
787 unique CDR3  
13 unique J



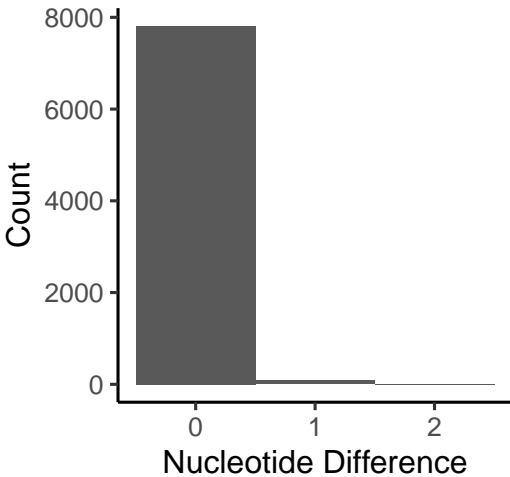
TRBV12-1\*ap01

193 sequences assigned  
192 (99.5%) exact matches, in which:  
187 unique CDR3  
13 unique J



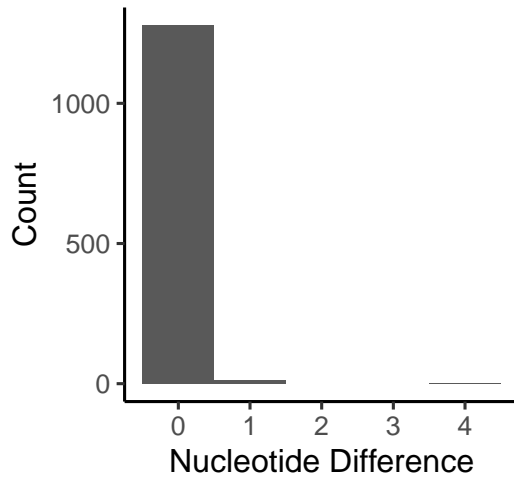
TRBV12-34\*ap01

7893 sequences assigned  
7810 (98.9%) exact matches, in which:  
7592 unique CDR3  
13 unique J



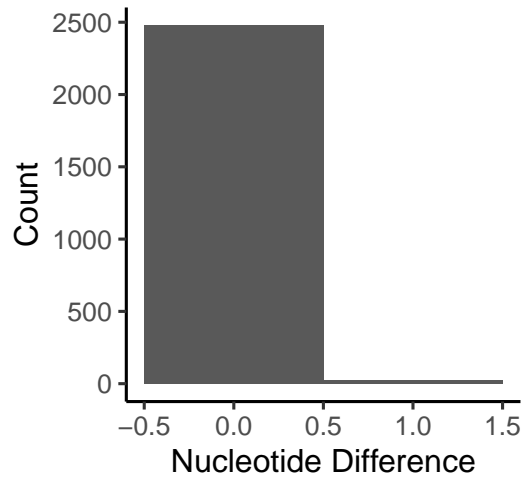
### TRBV23-1\*ap01

1293 sequences assigned  
1278 (98.8%) exact matches, in which:  
1237 unique CDR3  
13 unique J



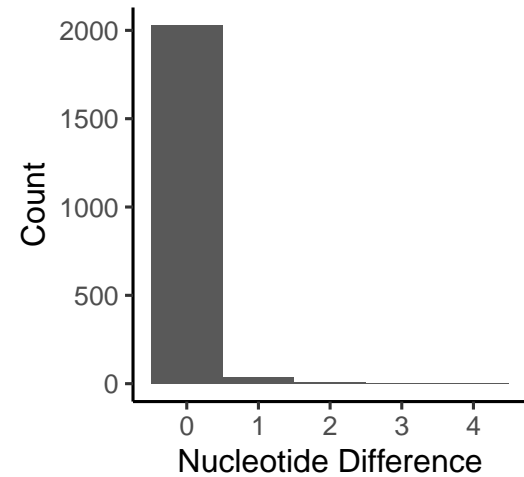
### TRBV4-1\*ap01

2502 sequences assigned  
2478 (99%) exact matches, in which:  
2369 unique CDR3  
13 unique J



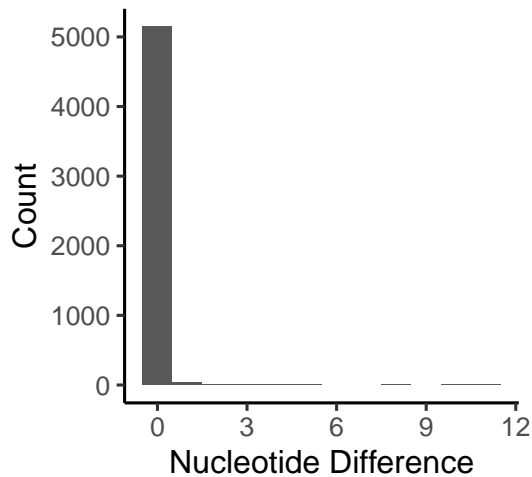
### TRBV25-1\*ap01

2076 sequences assigned  
2028 (97.7%) exact matches, in which:  
1955 unique CDR3  
13 unique J



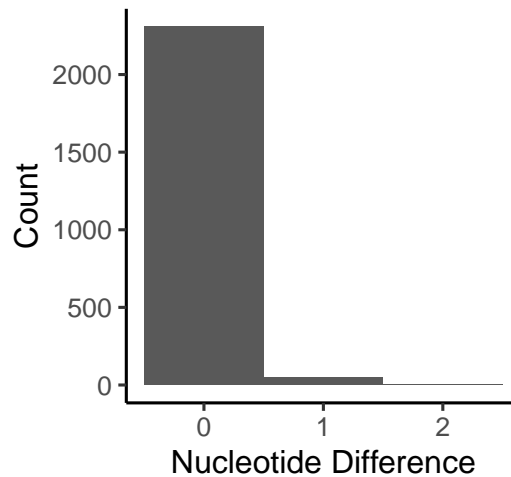
### TRBV3-12\*ap01

5190 sequences assigned  
5146 (99.2%) exact matches, in which:  
5050 unique CDR3  
13 unique J



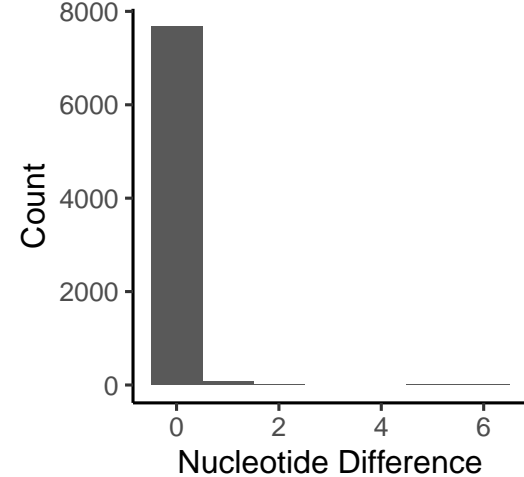
### TRBV4-2\*ap01

2360 sequences assigned  
2308 (97.8%) exact matches, in which:  
2225 unique CDR3  
13 unique J



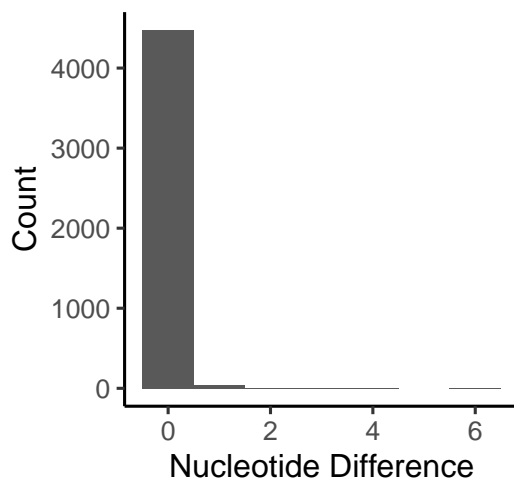
### TRBV5-1\*ap01

7748 sequences assigned  
7671 (99%) exact matches, in which:  
7387 unique CDR3  
13 unique J



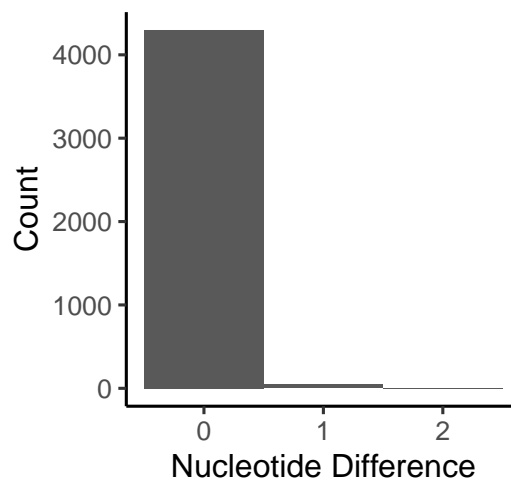
### TRBV24-1\*ap01

4526 sequences assigned  
4475 (98.9%) exact matches, in which:  
4356 unique CDR3  
13 unique J



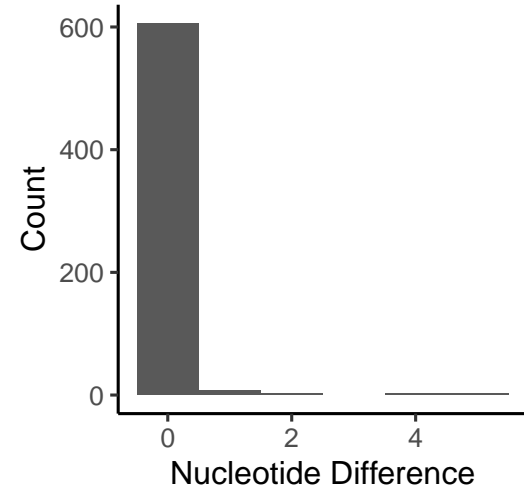
### TRBV4-3\*ap01

4346 sequences assigned  
4297 (98.9%) exact matches, in which:  
4145 unique CDR3  
13 unique J



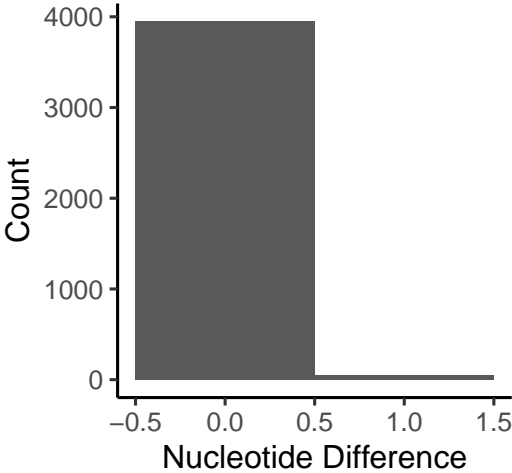
### TRBV5-3\*ap01

620 sequences assigned  
606 (97.7%) exact matches, in which:  
584 unique CDR3  
13 unique J



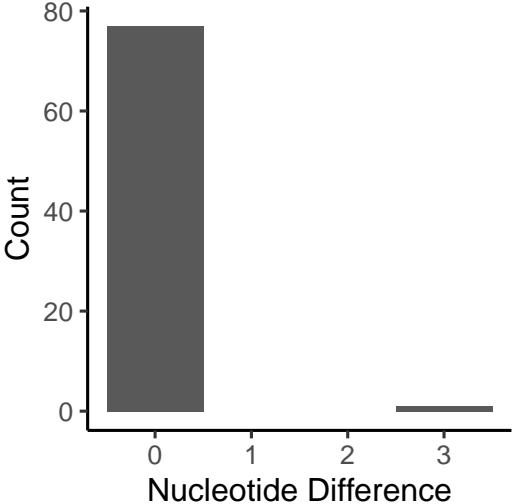
TRBV5-4\*ap01

3998 sequences assigned  
3949 (98.8%) exact matches, in which:  
3820 unique CDR3  
13 unique J



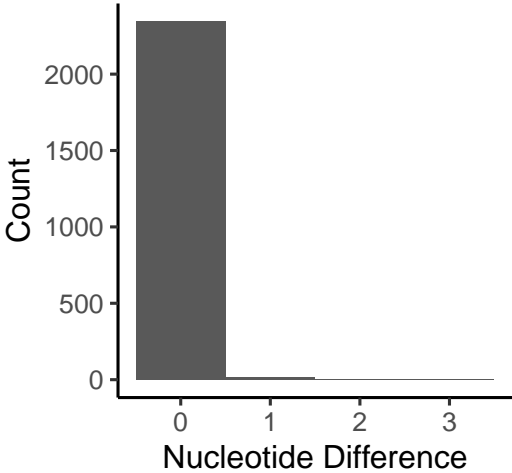
TRBV5-7\*ap01

78 sequences assigned  
77 (98.7%) exact matches, in which:  
76 unique CDR3  
13 unique J



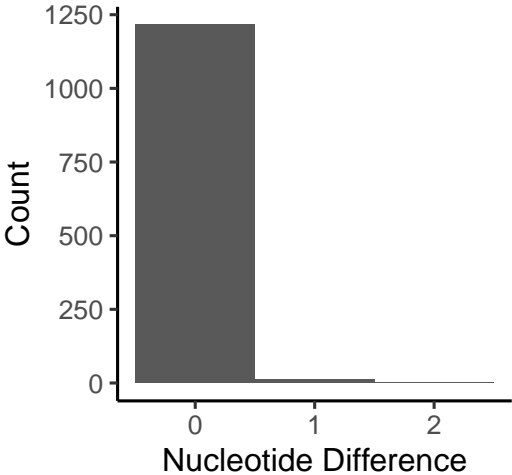
TRBV6-4\*ap01

2370 sequences assigned  
2345 (98.9%) exact matches, in which:  
2290 unique CDR3  
13 unique J



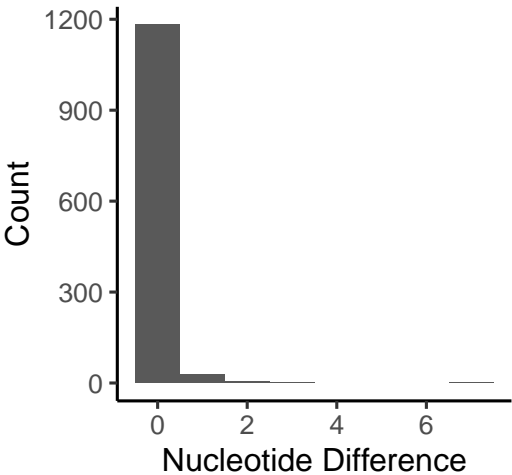
TRBV5-5\*ap01

1229 sequences assigned  
1216 (98.9%) exact matches, in which:  
1200 unique CDR3  
13 unique J



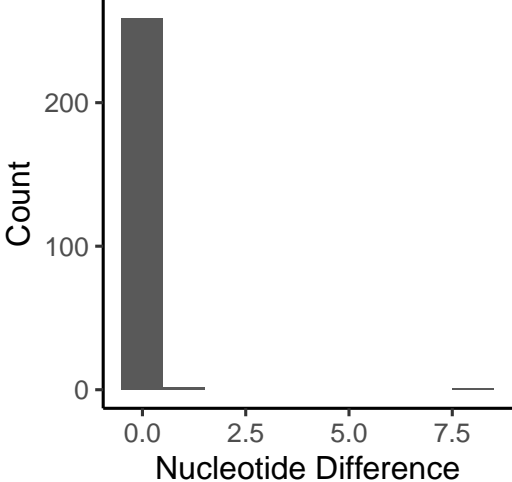
TRBV5-8\*ap01

1217 sequences assigned  
1182 (97.1%) exact matches, in which:  
1145 unique CDR3  
13 unique J



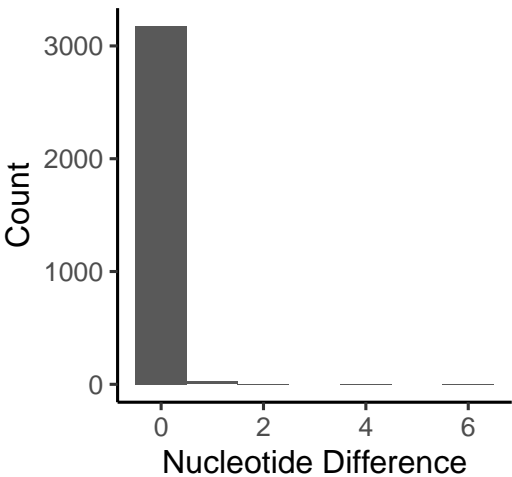
TRBV6-7\*ap01

262 sequences assigned  
259 (98.9%) exact matches, in which:  
251 unique CDR3  
13 unique J



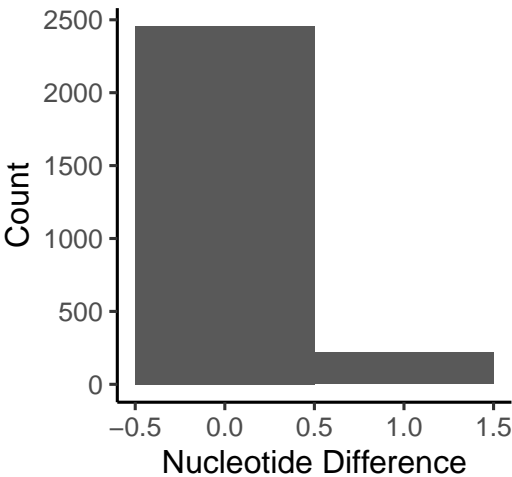
TRBV5-6\*ap01

3206 sequences assigned  
3176 (99.1%) exact matches, in which:  
3066 unique CDR3  
13 unique J



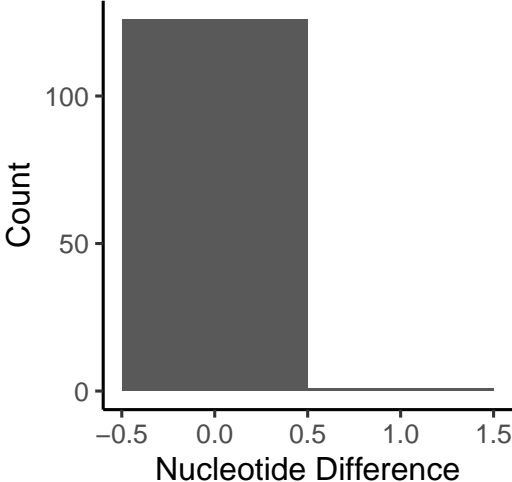
TRBV6-1\*ap01

2676 sequences assigned  
2457 (91.8%) exact matches, in which:  
2362 unique CDR3  
13 unique J



TRBV6-8\*ap01

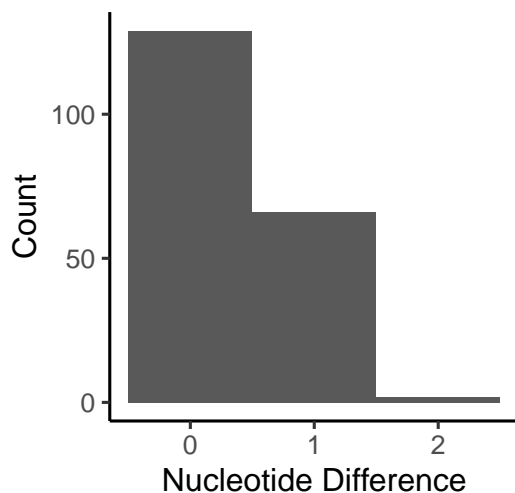
127 sequences assigned  
126 (99.2%) exact matches, in which:  
121 unique CDR3  
11 unique J





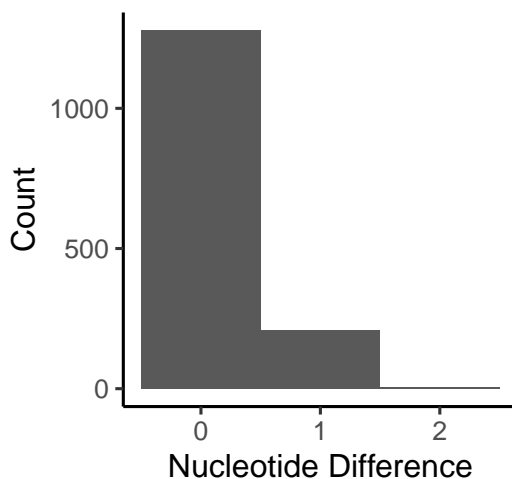
### TRBV6-9\*ap01

197 sequences assigned  
129 (65.5%) exact matches, in which:  
125 unique CDR3  
12 unique J



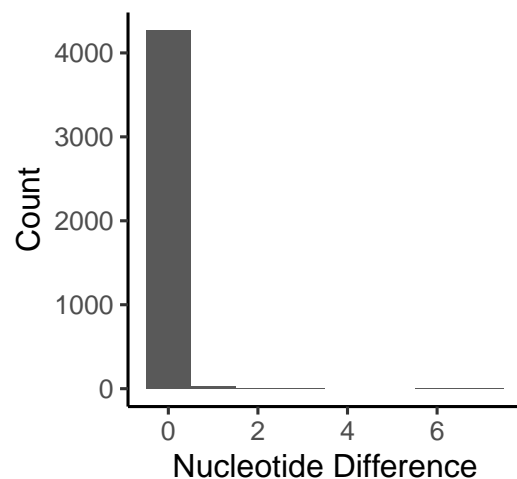
### TRBV6-56\*ap02

1491 sequences assigned  
1278 (85.7%) exact matches, in which:  
1227 unique CDR3  
13 unique J



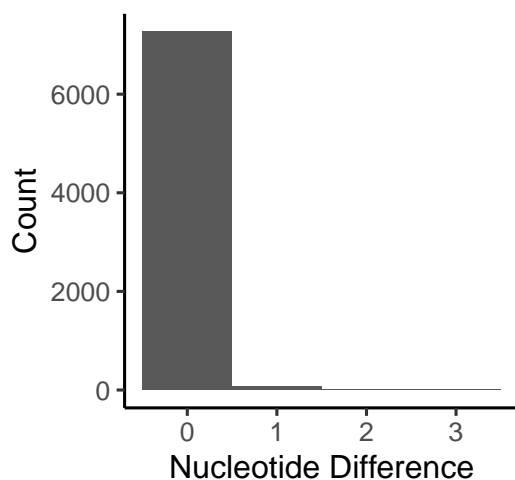
### TRBV7-3\*ap01

4300 sequences assigned  
4268 (99.3%) exact matches, in which:  
4180 unique CDR3  
13 unique J



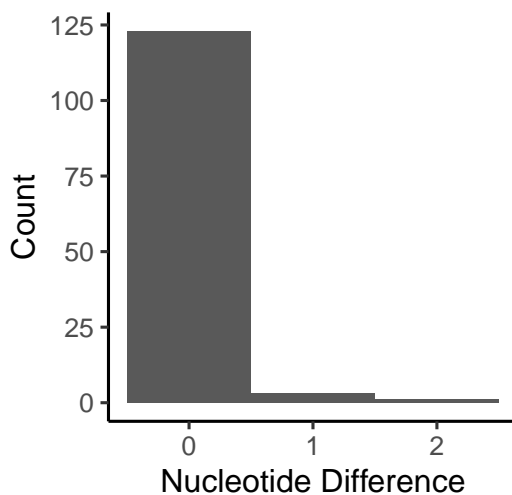
### TRBV6-23\*ap01

7349 sequences assigned  
7267 (98.9%) exact matches, in which:  
7008 unique CDR3  
14 unique J



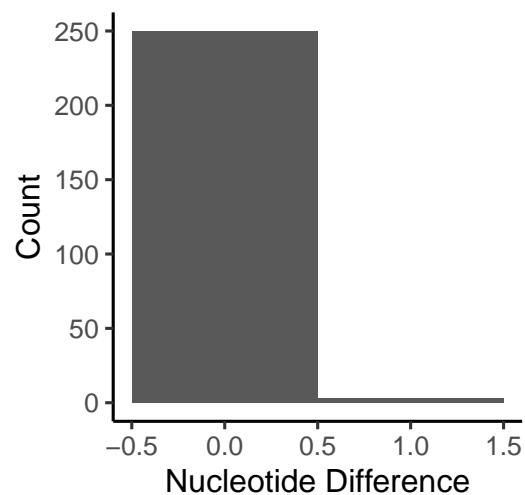
### TRBV7-1\*ap01\_G291C\_

127 sequences assigned  
123 (96.9%) exact matches, in which:  
121 unique CDR3  
13 unique J



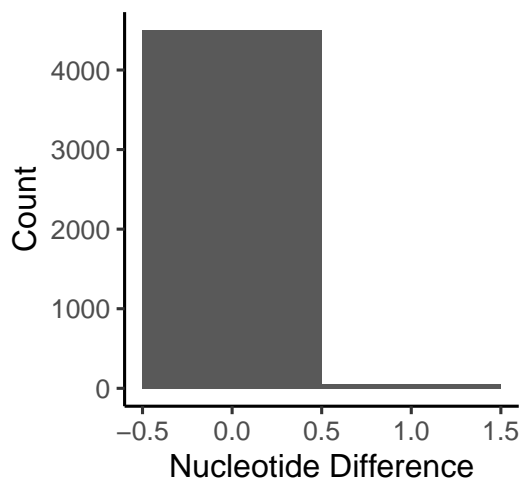
### TRBV7-4\*ap01

253 sequences assigned  
250 (98.8%) exact matches, in which:  
240 unique CDR3  
13 unique J



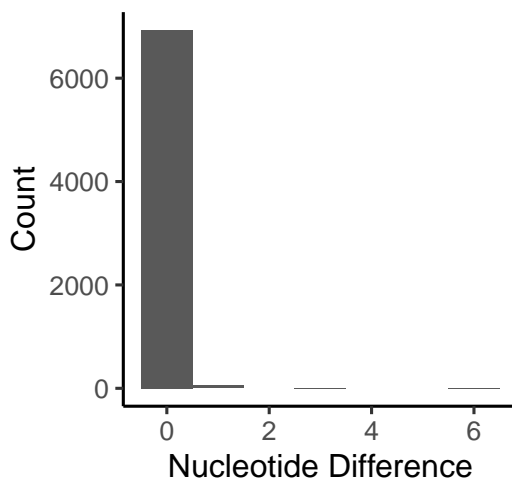
### TRBV6-56\*ap01

4560 sequences assigned  
4502 (98.7%) exact matches, in which:  
4337 unique CDR3  
13 unique J



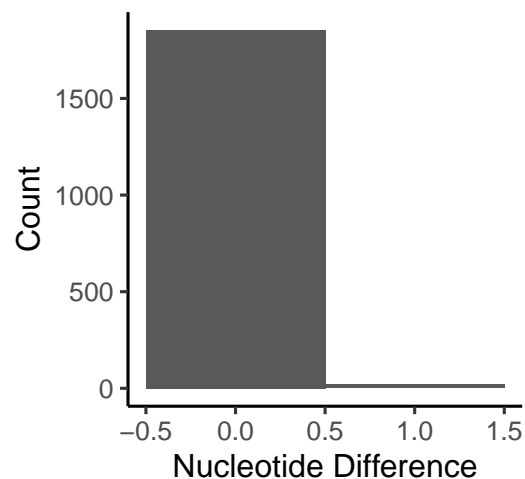
### TRBV7-2\*ap01

6985 sequences assigned  
6931 (99.2%) exact matches, in which:  
6735 unique CDR3  
13 unique J



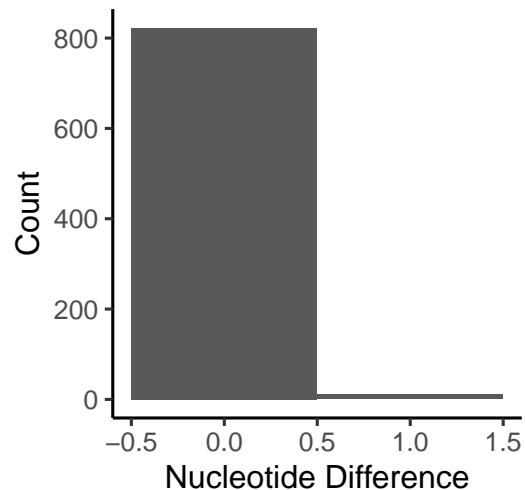
### TRBV7-6\*ap01

1874 sequences assigned  
1854 (98.9%) exact matches, in which:  
1798 unique CDR3  
13 unique J



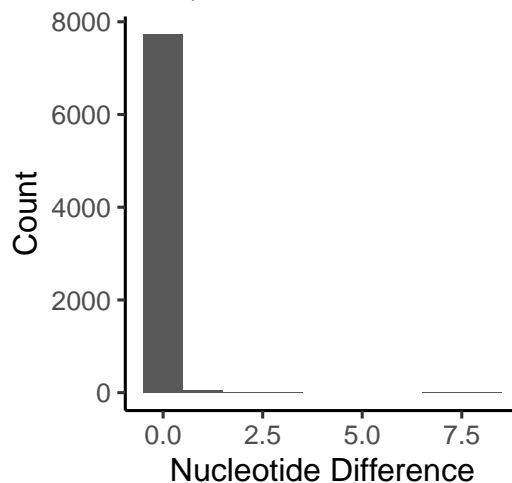
### TRBV7-7\*ap01\_C315T

834 sequences assigned  
823 (98.7%) exact matches, in which:  
803 unique CDR3  
13 unique J



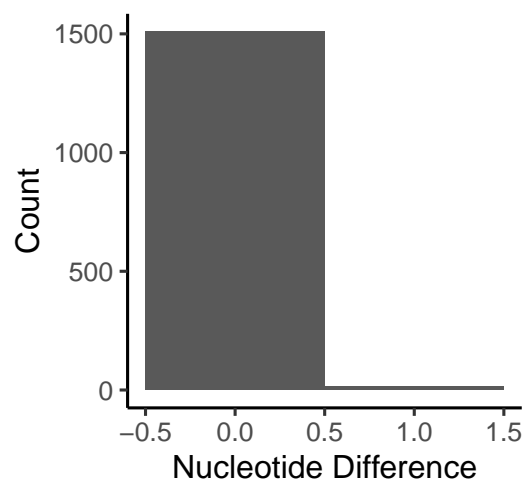
### TRBV7-9\*ap01

7793 sequences assigned  
7728 (99.2%) exact matches, in which:  
7524 unique CDR3  
13 unique J



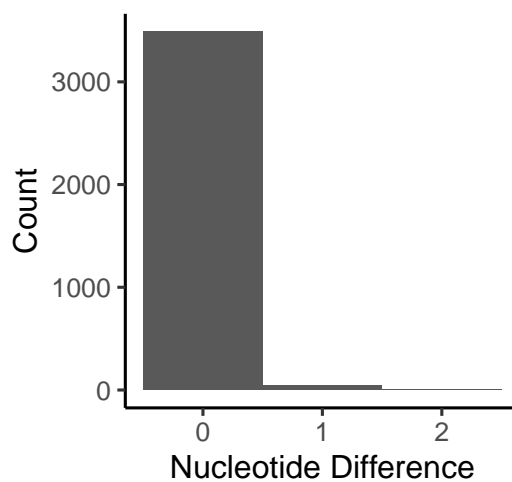
### TRBV7-8\*ap01

1524 sequences assigned  
1509 (99%) exact matches, in which:  
1459 unique CDR3  
13 unique J



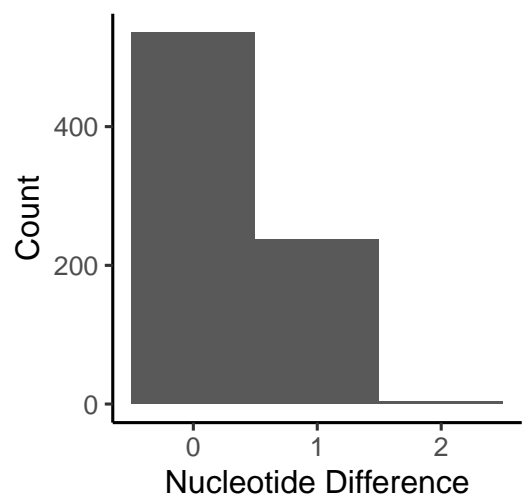
### TRBV29-1\*ap01

3530 sequences assigned  
3488 (98.8%) exact matches, in which:  
3362 unique CDR3  
13 unique J



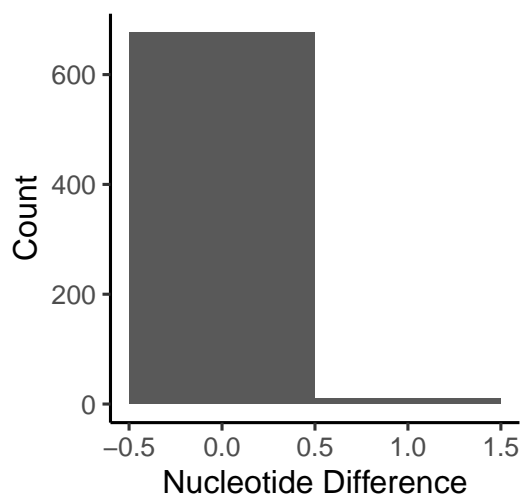
### TRBV7-8\*ap03

777 sequences assigned  
536 (69%) exact matches, in which:  
518 unique CDR3  
13 unique J

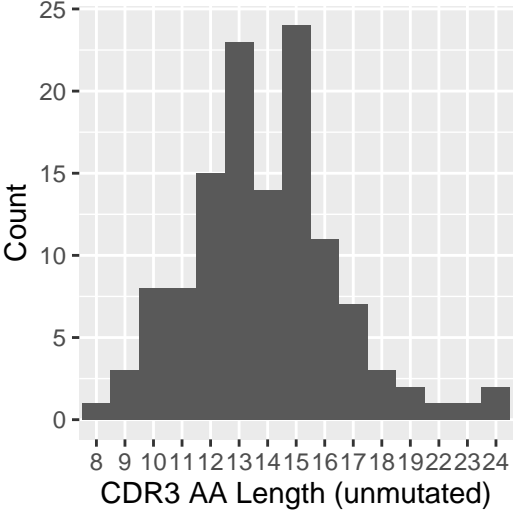


### TRBV29-1\*ap02

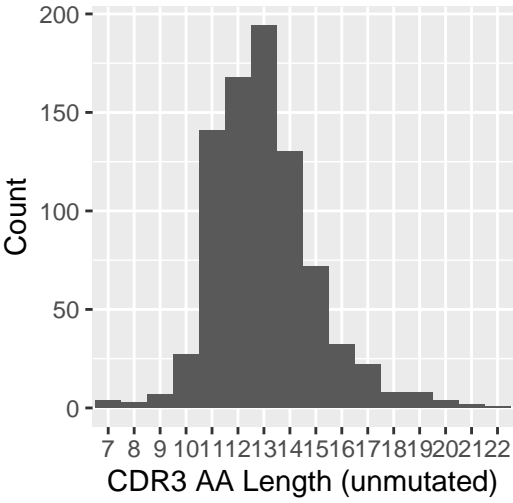
687 sequences assigned  
677 (98.5%) exact matches, in which:  
650 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]