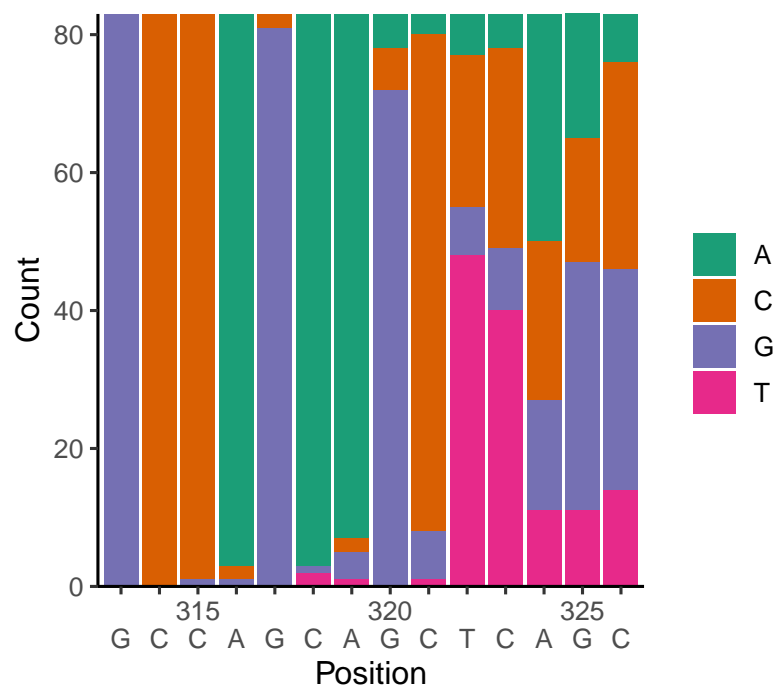
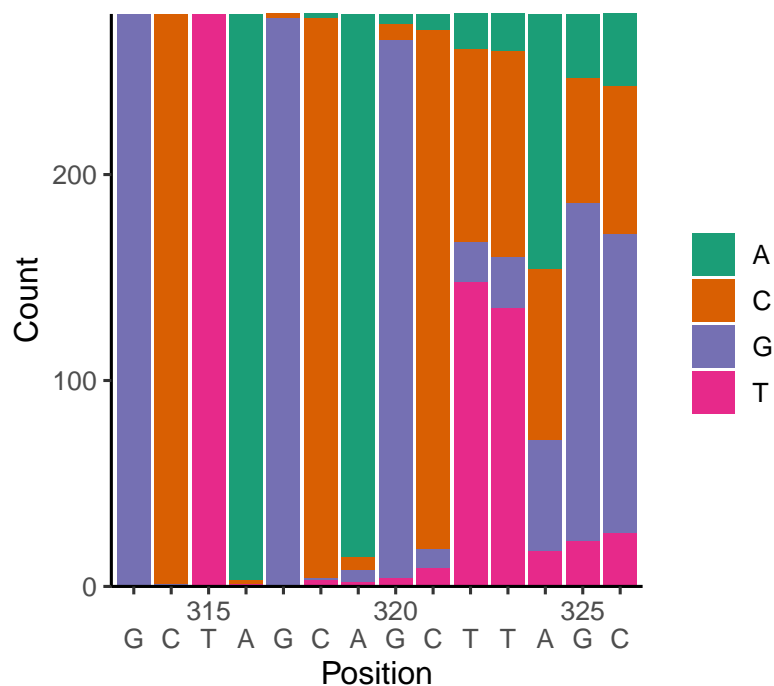


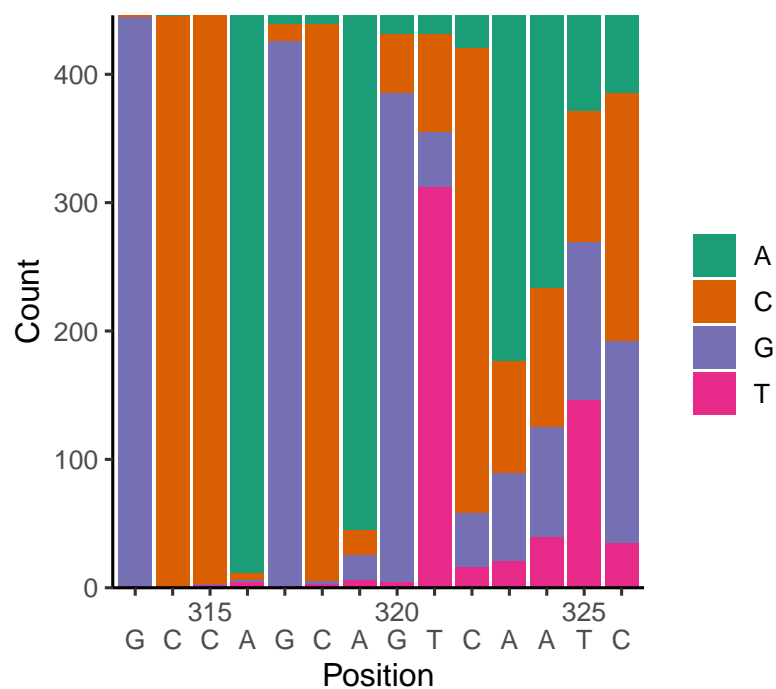
Gene TRBV7-1\*ap01\_G291C\_T296C



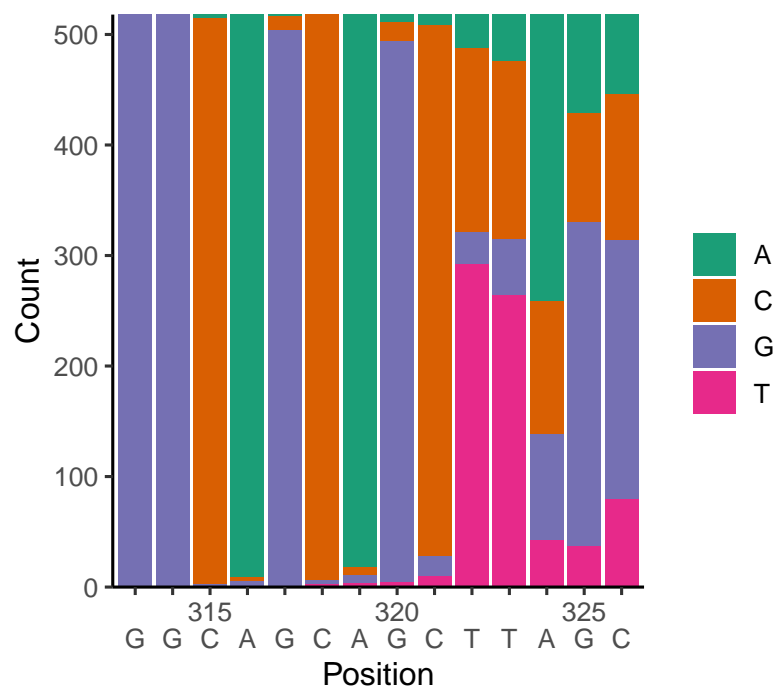
Gene TRBV7-7\*ap01\_C315T



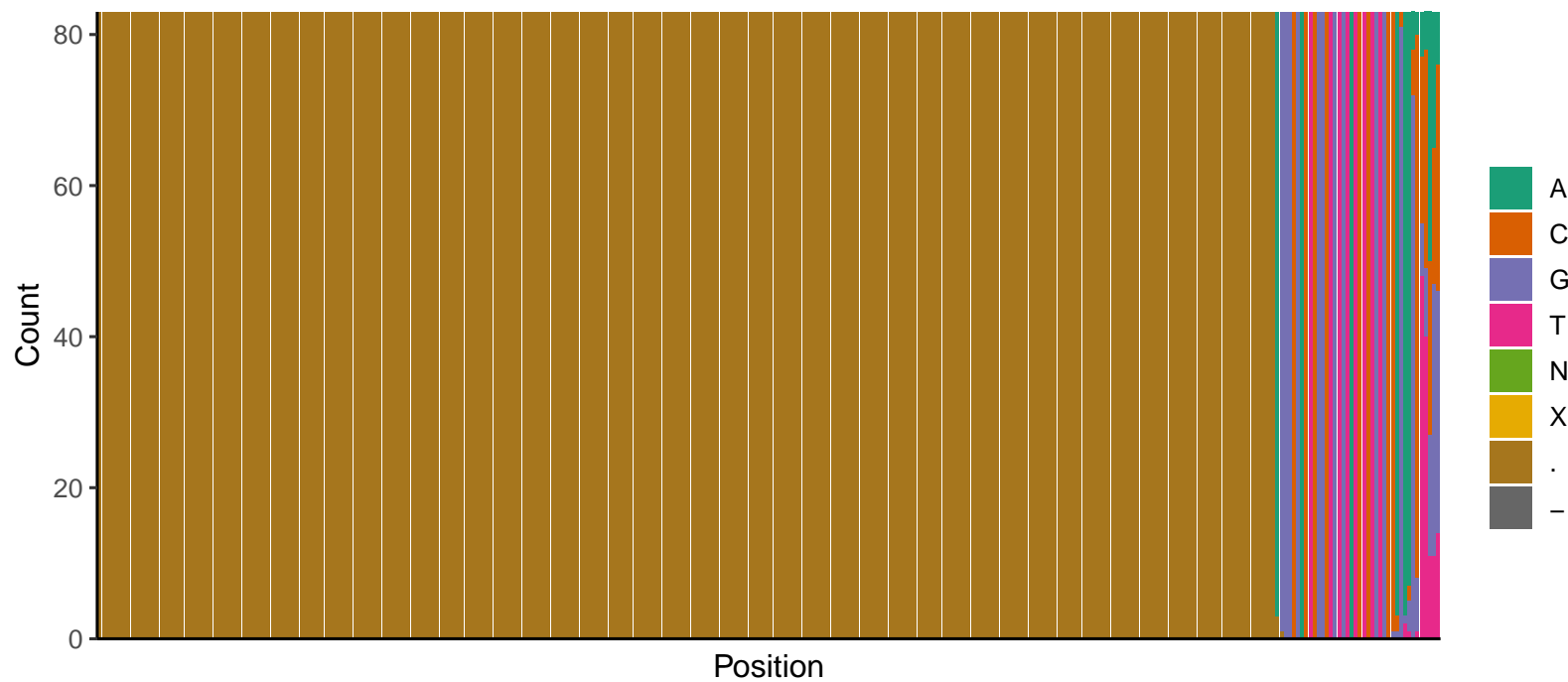
Gene TRBV23-1\*ap01\_T304C



Gene TRBV7-6\*ap01\_C314G



Gene TRBV7-1\*ap01\_G291C\_T296C



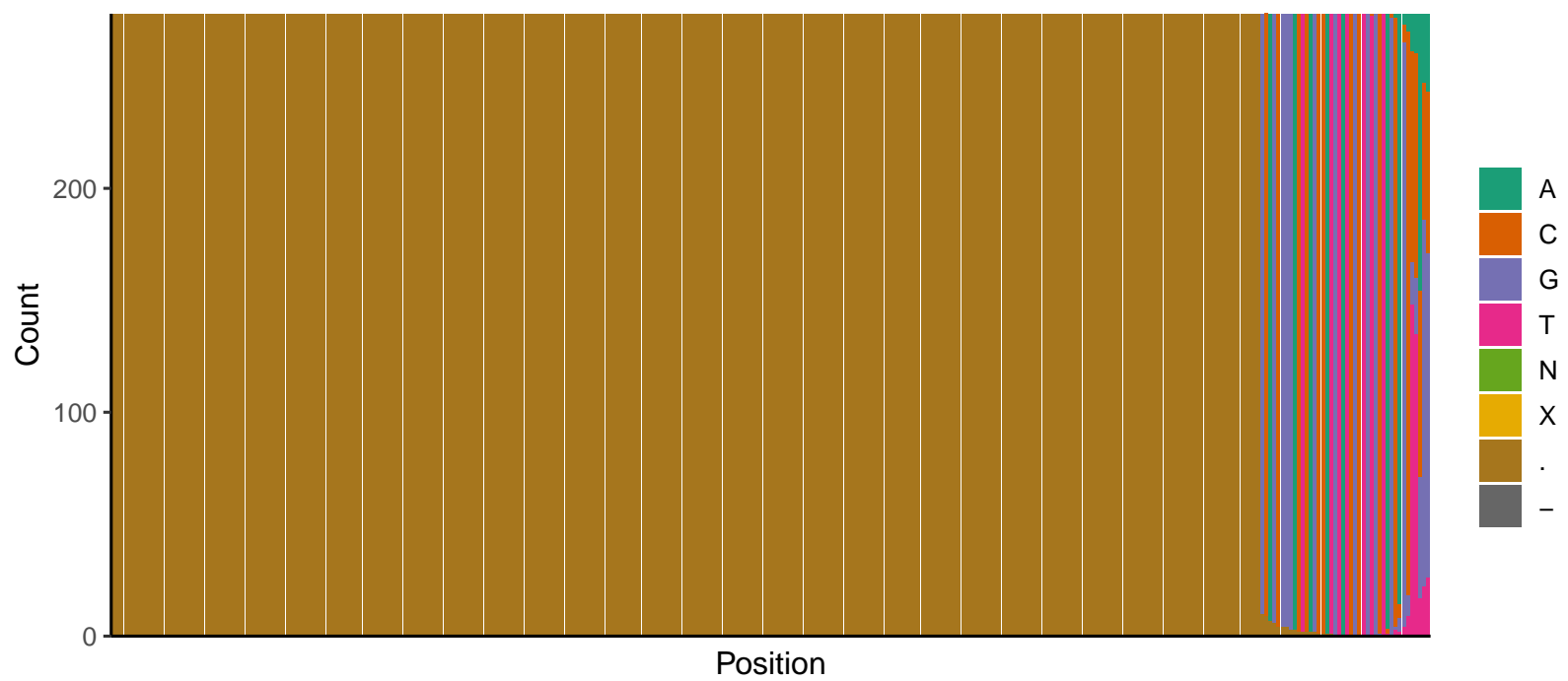
Gene TRBV23-1\*ap01\_T304C



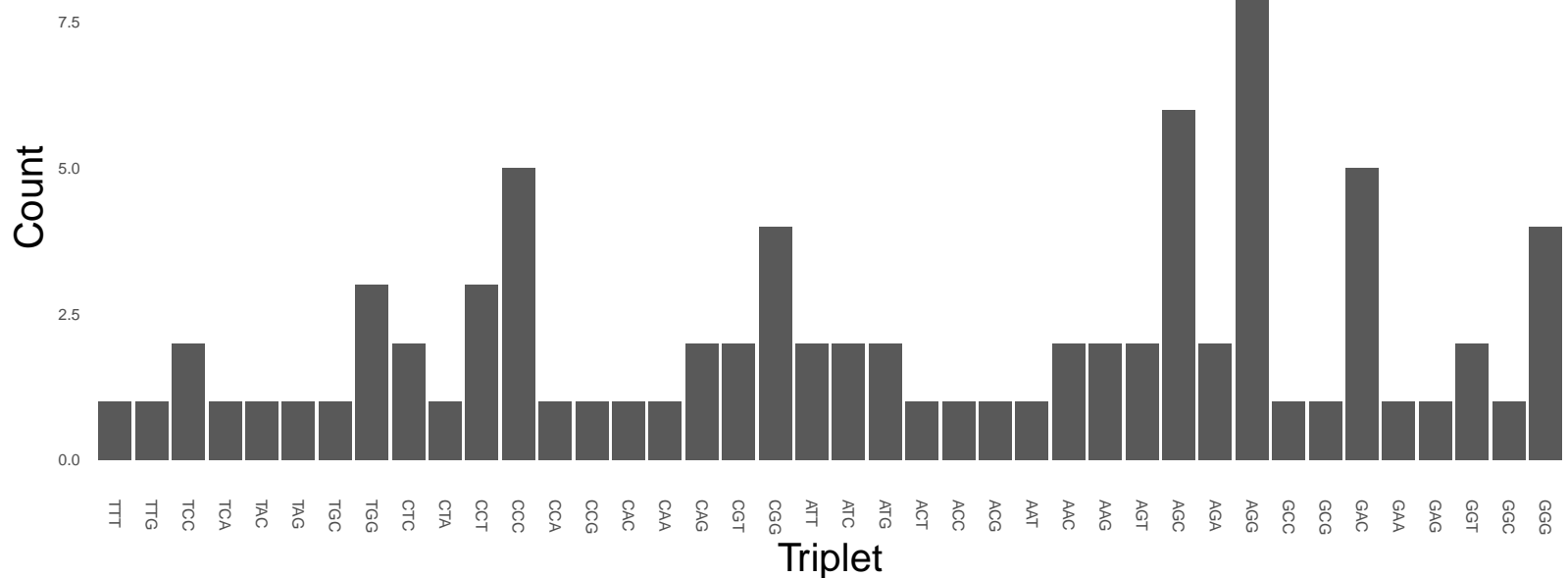
Gene TRBV7-6\*ap01\_C314G



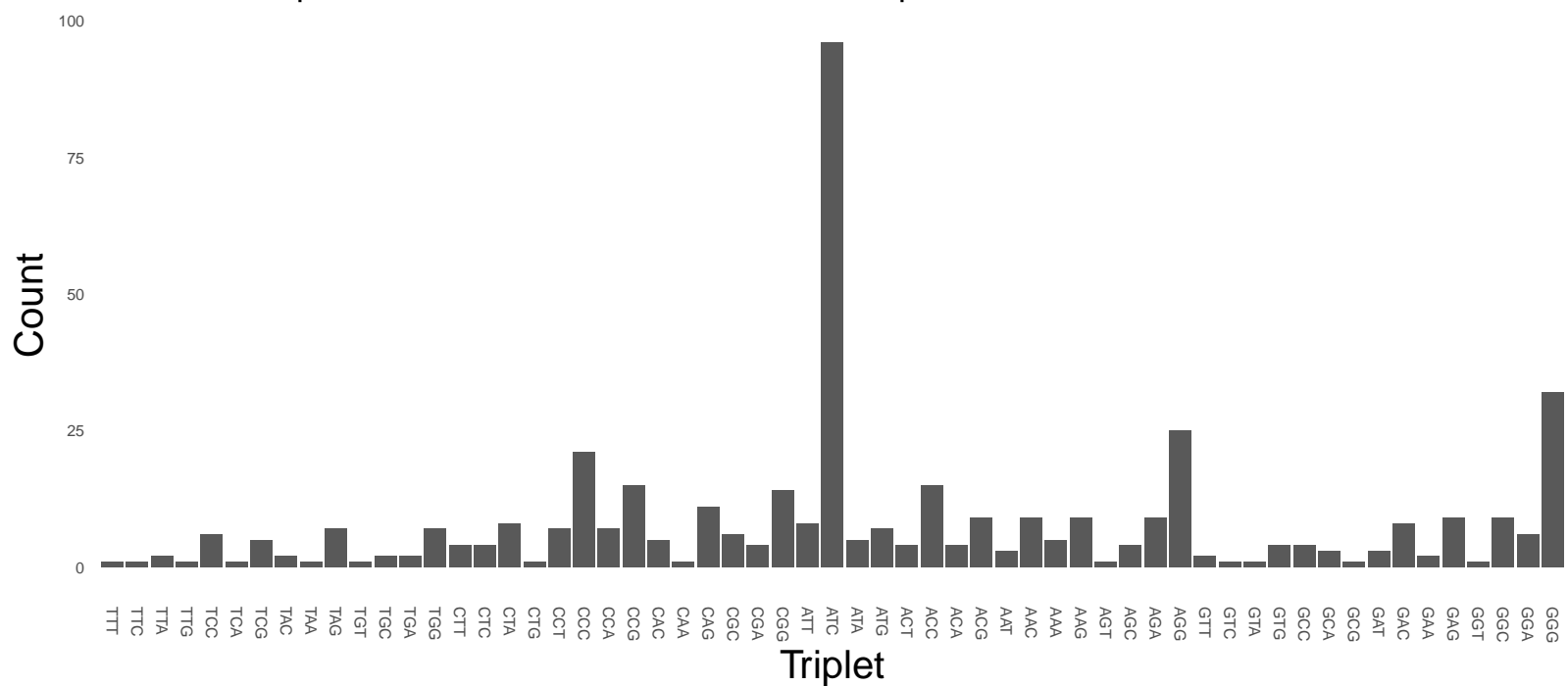
Gene TRBV7-7\*ap01\_C315T



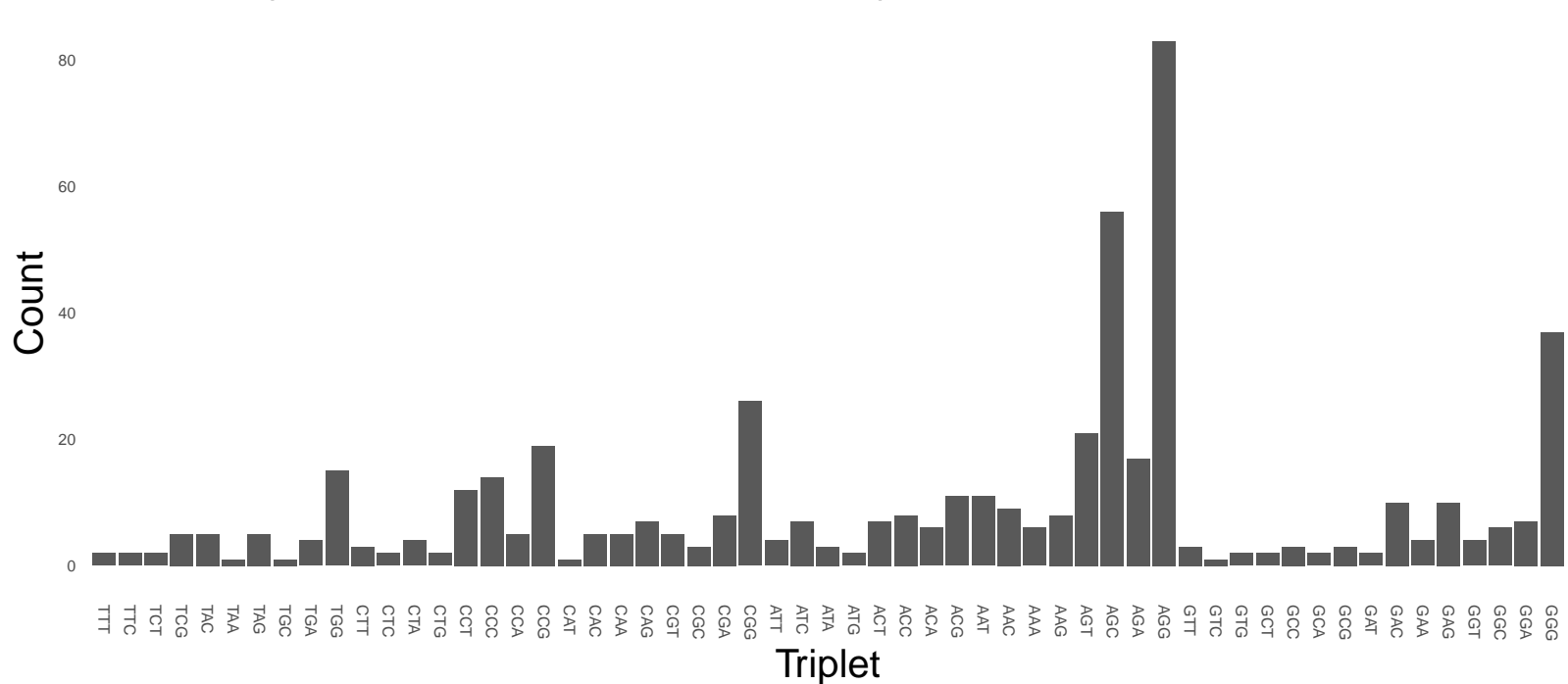
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



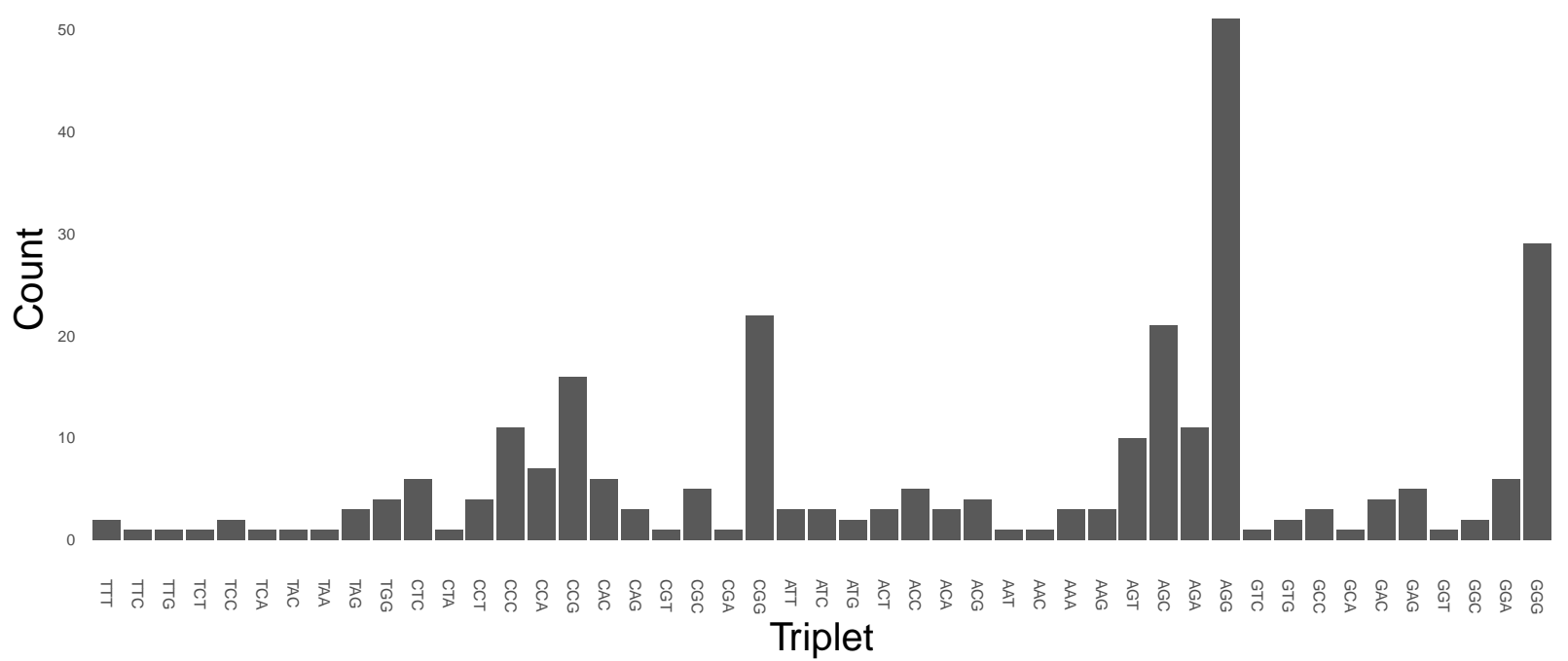
TRBV23-1\*ap01\_T304C- Final 3 nucleotides as a triplet



TRBV7-6\*ap01\_C314G- Final 3 nucleotides as a triplet

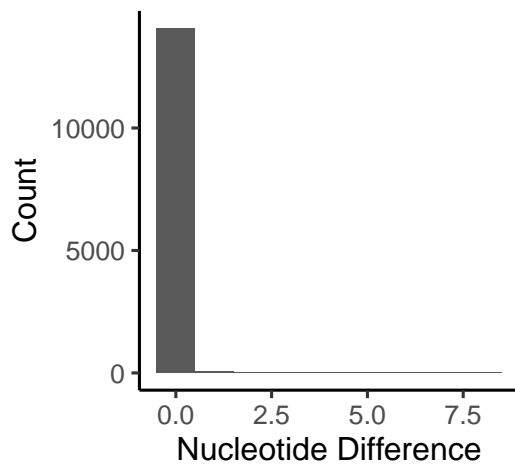


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



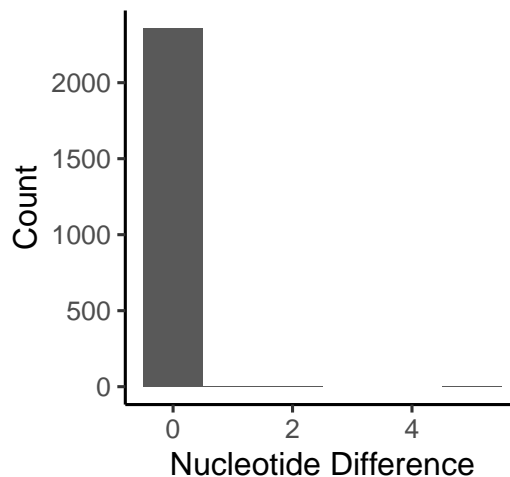
### TRBV20-1\*ap01

14156 sequences assigned  
14077 (99.4%) exact matches, in which:  
14020 unique CDR3  
13 unique J



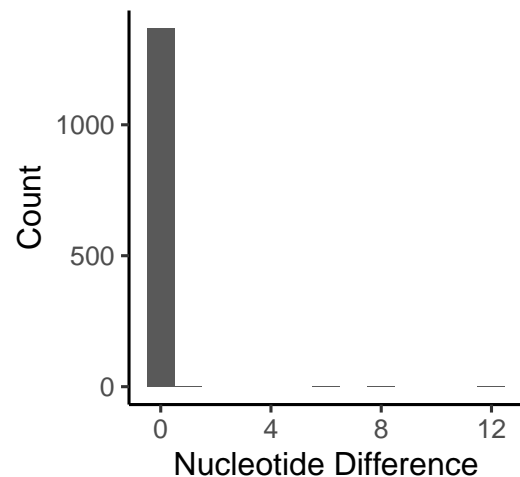
### TRBV10-3\*ap01

2365 sequences assigned  
2357 (99.7%) exact matches, in which:  
2342 unique CDR3  
13 unique J



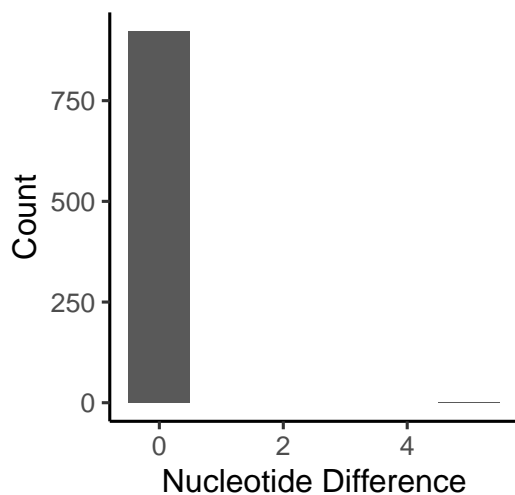
### TRBV14\*ap01

1374 sequences assigned  
1368 (99.6%) exact matches, in which:  
1368 unique CDR3  
13 unique J



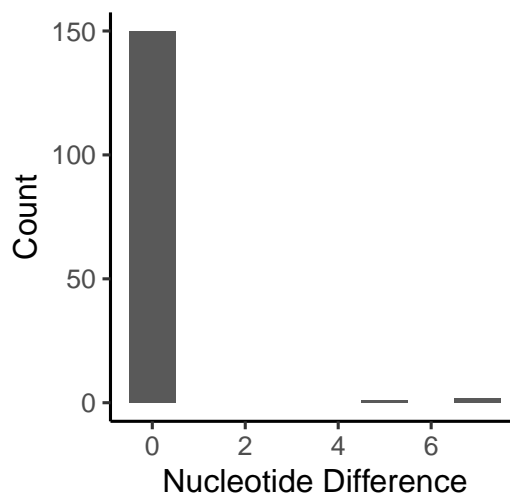
### TRBV10-1\*ap01

924 sequences assigned  
923 (99.9%) exact matches, in which:  
919 unique CDR3  
13 unique J



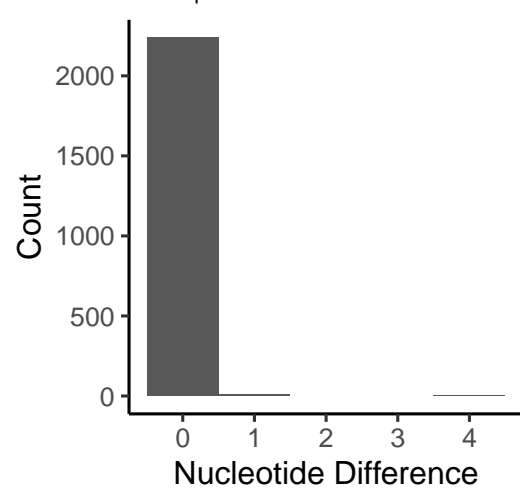
### TRBV1\*ap01

153 sequences assigned  
150 (98%) exact matches, in which:  
149 unique CDR3  
13 unique J



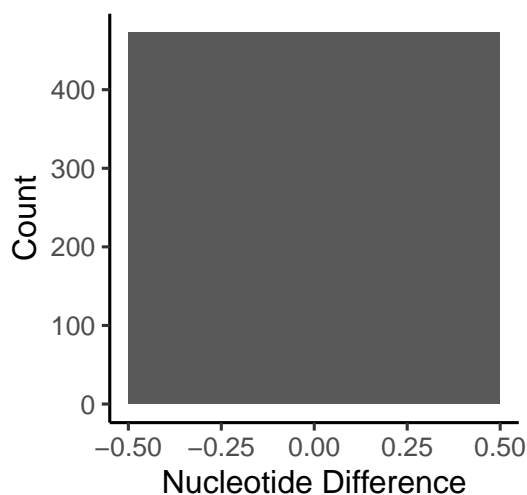
### TRBV15\*ap02

2247 sequences assigned  
2238 (99.6%) exact matches, in which:  
2232 unique CDR3  
13 unique J



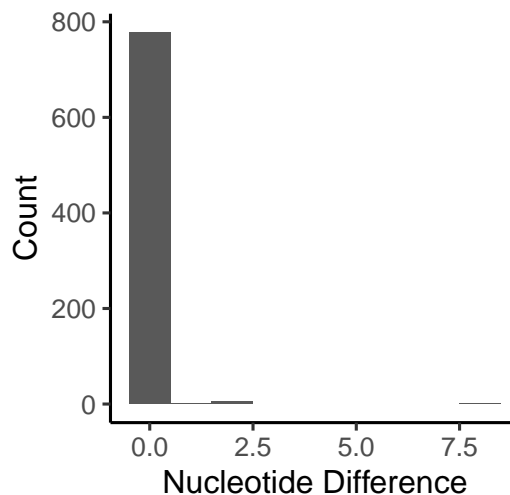
### TRBV10-2\*ap01

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



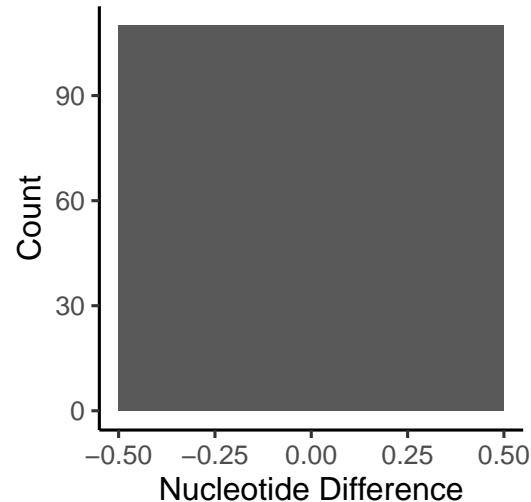
### TRBV13\*ap01

785 sequences assigned  
778 (99.1%) exact matches, in which:  
773 unique CDR3  
13 unique J



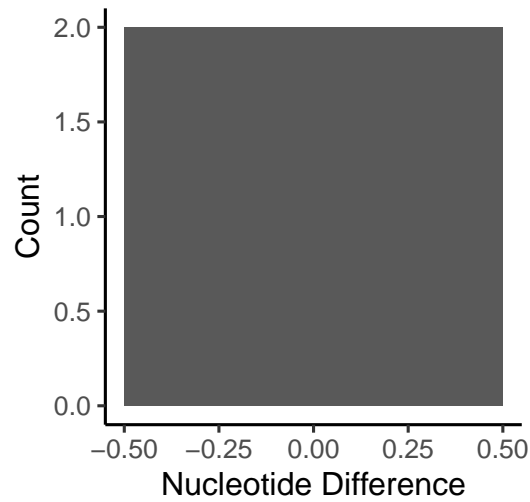
### TRBV16\*ap01

110 sequences assigned  
110 (100%) exact matches, in which:  
109 unique CDR3  
12 unique J



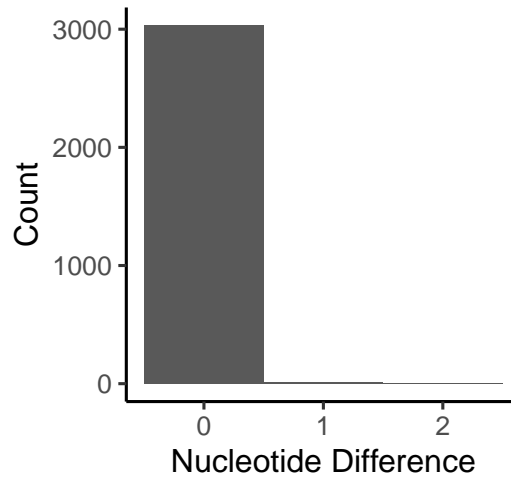
### TRBV17\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
1 unique J



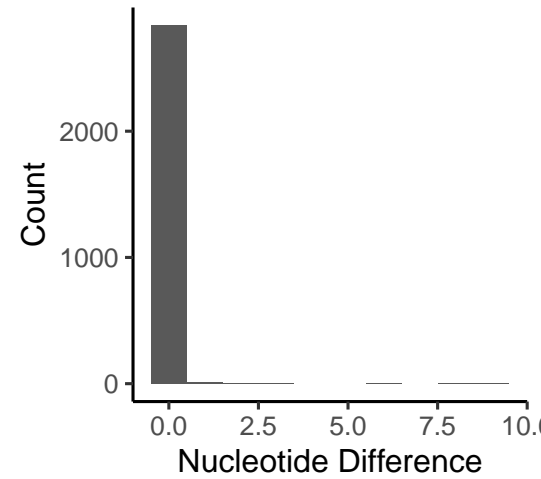
### TRBV2\*ap01

3042 sequences assigned  
3032 (99.7%) exact matches, in which:  
3023 unique CDR3  
13 unique J



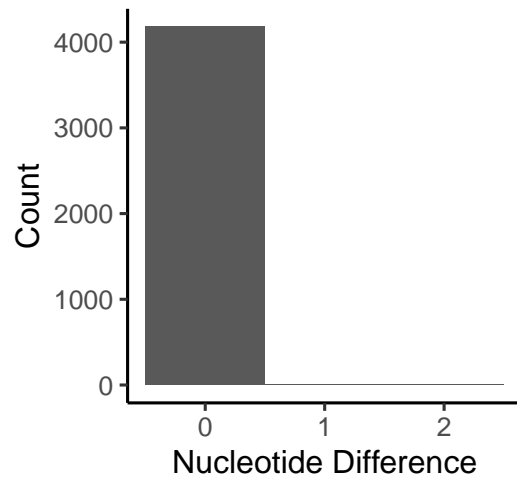
### TRBV30\*ap01

2857 sequences assigned  
2838 (99.3%) exact matches, in which:  
2827 unique CDR3  
13 unique J



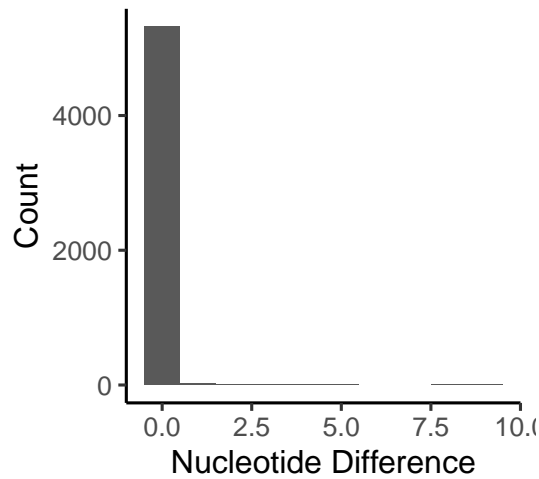
### TRBV18\*ap01

4186 sequences assigned  
4180 (99.9%) exact matches, in which:  
4169 unique CDR3  
13 unique J



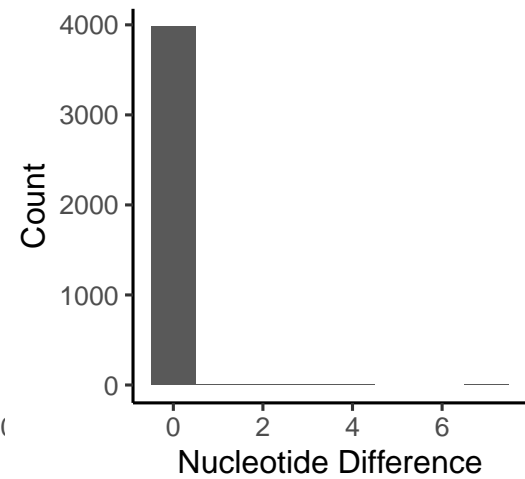
### TRBV27\*ap01

5349 sequences assigned  
5318 (99.4%) exact matches, in which:  
5301 unique CDR3  
13 unique J



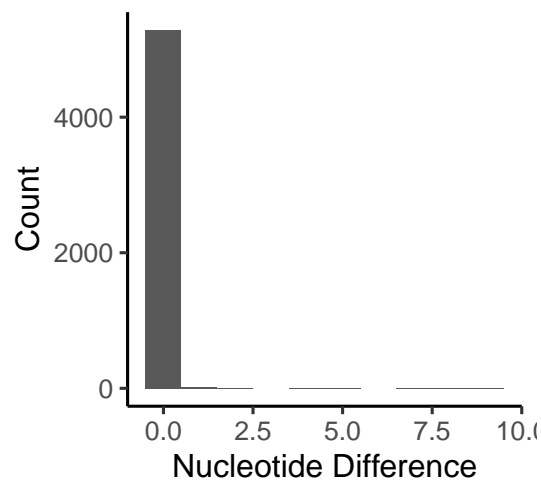
### TRBV9\*ap01

3993 sequences assigned  
3979 (99.6%) exact matches, in which:  
3960 unique CDR3  
13 unique J



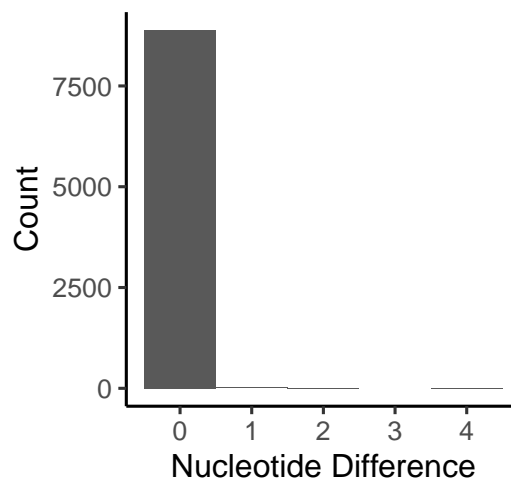
### TRBV19\*ap01

5310 sequences assigned  
5285 (99.5%) exact matches, in which:  
5278 unique CDR3  
13 unique J



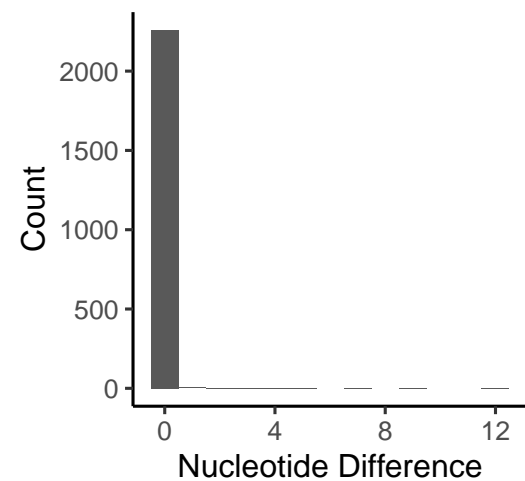
### TRBV28\*ap01

8911 sequences assigned  
8886 (99.7%) exact matches, in which:  
8858 unique CDR3  
13 unique J



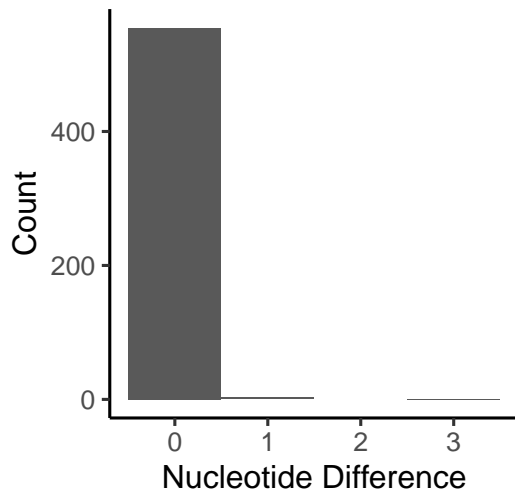
### TRBV21-1\*ap01

2274 sequences assigned  
2259 (99.3%) exact matches, in which:  
2259 unique CDR3  
13 unique J



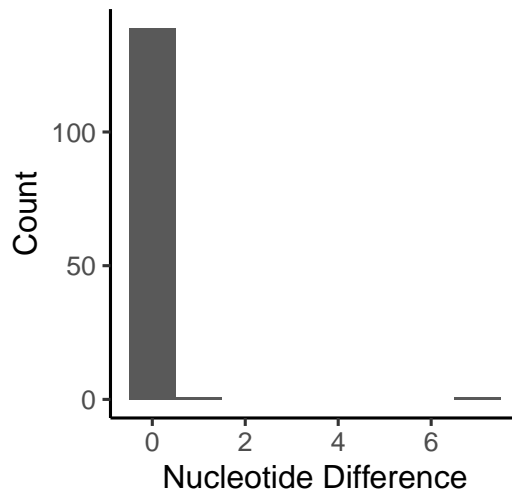
### TRBV11-1\*ap01

559 sequences assigned  
555 (99.3%) exact matches, in which:  
555 unique CDR3  
12 unique J



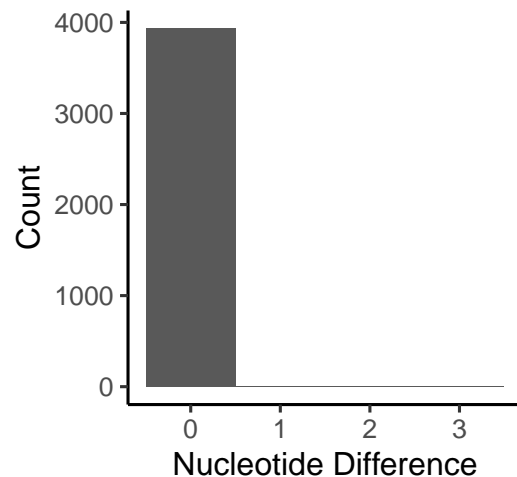
### TRBV12-1\*ap01

141 sequences assigned  
139 (98.6%) exact matches, in which:  
139 unique CDR3  
12 unique J



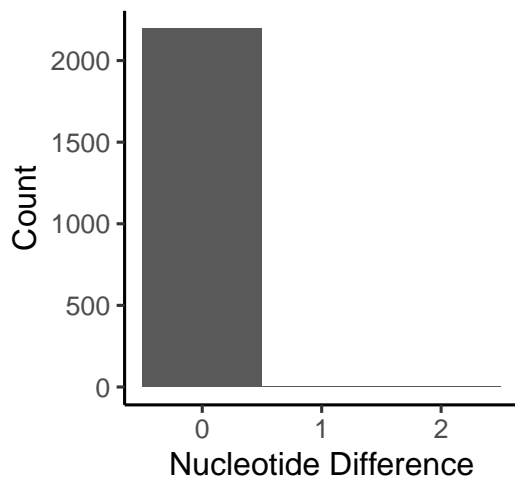
### TRBV12-34\*ap01

3945 sequences assigned  
3934 (99.7%) exact matches, in which:  
3921 unique CDR3  
13 unique J



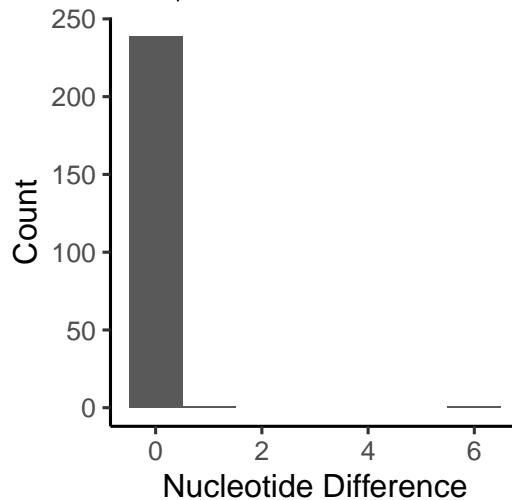
### TRBV11-2\*ap01

2200 sequences assigned  
2195 (99.8%) exact matches, in which:  
2185 unique CDR3  
13 unique J



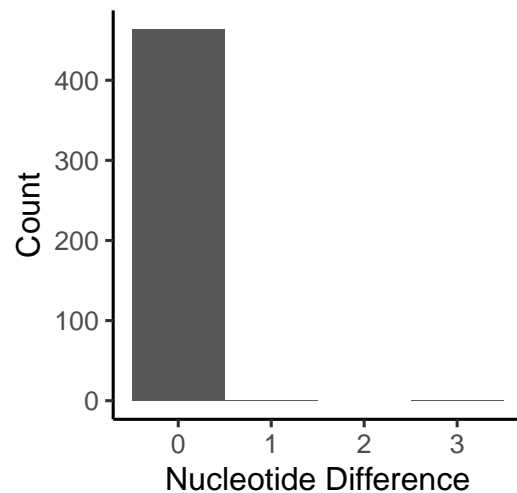
### TRBV12-2\*ap01

241 sequences assigned  
239 (99.2%) exact matches, in which:  
238 unique CDR3  
13 unique J



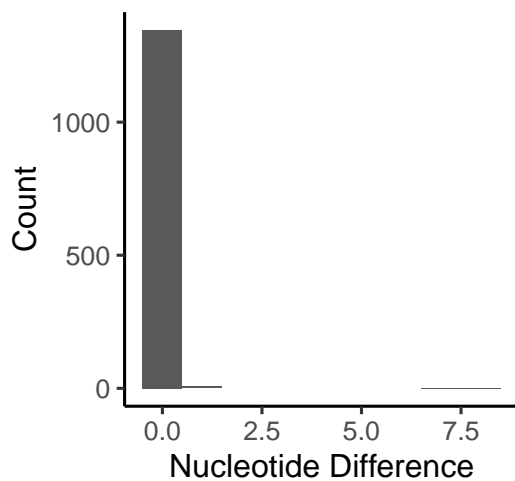
### TRBV23-1\*ap01

466 sequences assigned  
464 (99.6%) exact matches, in which:  
464 unique CDR3  
12 unique J



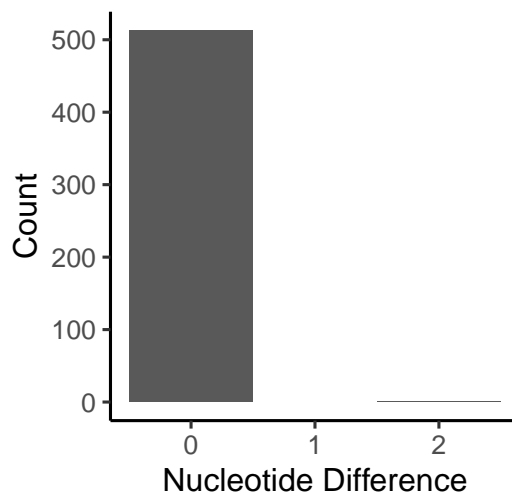
### TRBV11-3\*ap01

1355 sequences assigned  
1346 (99.3%) exact matches, in which:  
1342 unique CDR3  
12 unique J



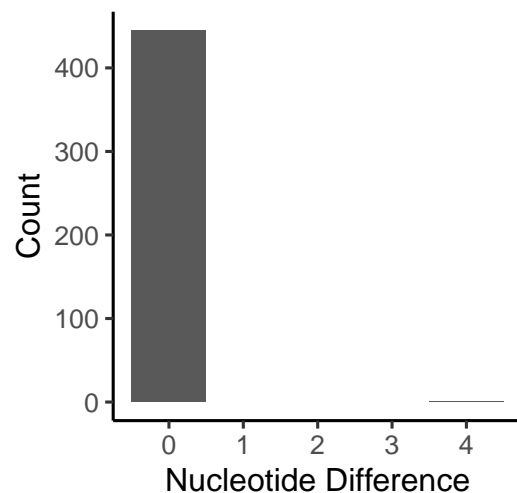
### TRBV12-5\*ap01

514 sequences assigned  
513 (99.8%) exact matches, in which:  
512 unique CDR3  
13 unique J



### TRBV23-1\*ap01\_T304C

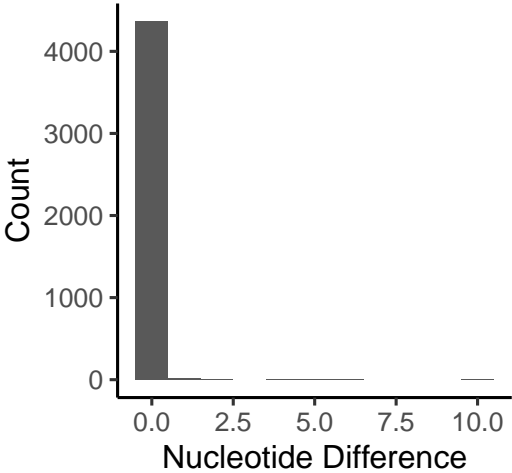
446 sequences assigned  
445 (99.8%) exact matches, in which:  
443 unique CDR3  
12 unique J





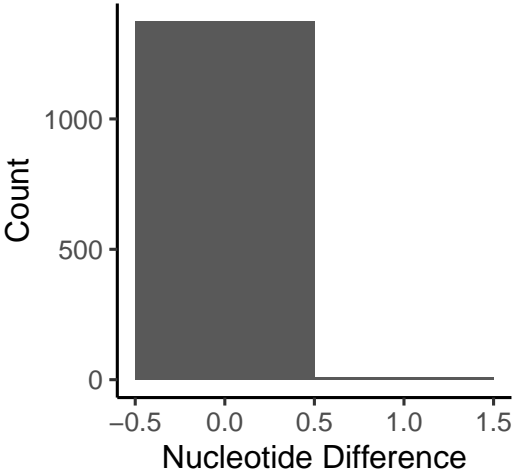
TRBV3-12\*ap01

4395 sequences assigned  
4365 (99.3%) exact matches, in which:  
4358 unique CDR3  
14 unique J



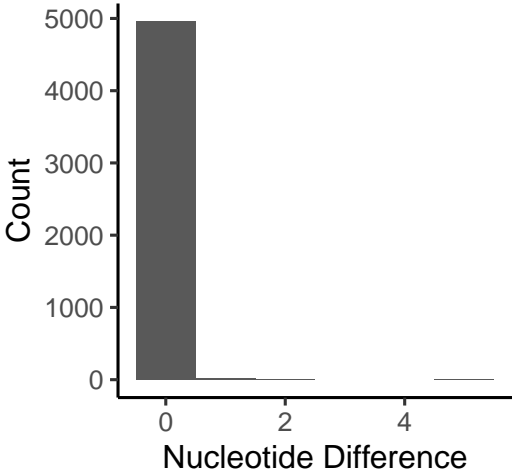
TRBV4-2\*ap01

1383 sequences assigned  
1374 (99.3%) exact matches, in which:  
1362 unique CDR3  
13 unique J



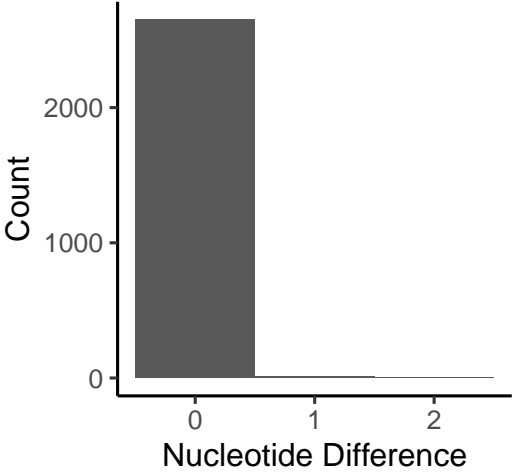
TRBV5-1\*ap01

4976 sequences assigned  
4959 (99.7%) exact matches, in which:  
4927 unique CDR3  
13 unique J



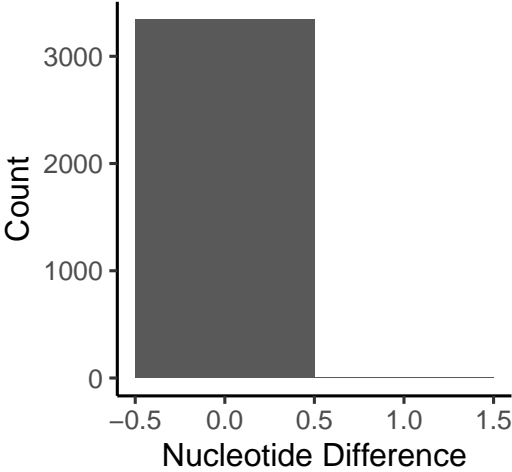
TRBV24-1\*ap01

2661 sequences assigned  
2650 (99.6%) exact matches, in which:  
2644 unique CDR3  
13 unique J



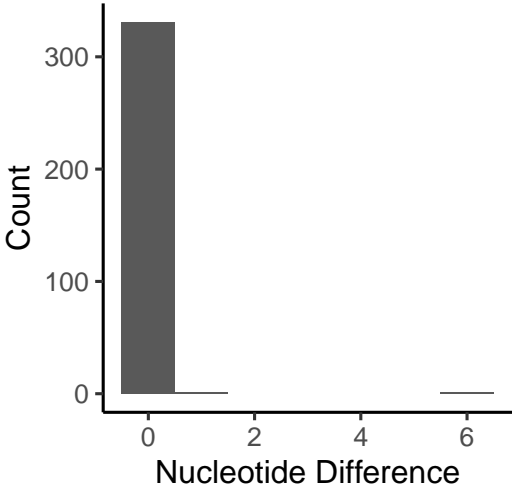
TRBV4-3\*ap01

3347 sequences assigned  
3341 (99.8%) exact matches, in which:  
3320 unique CDR3  
13 unique J



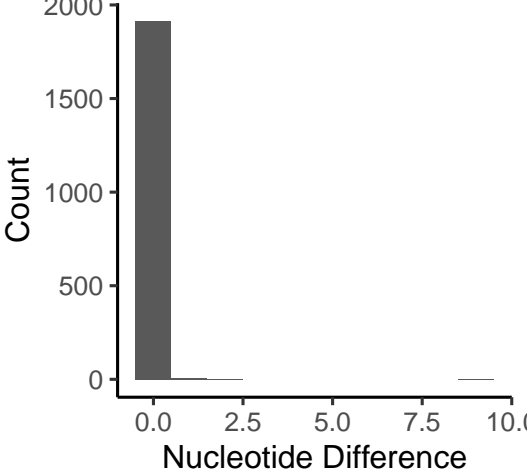
TRBV5-3\*ap01

333 sequences assigned  
331 (99.4%) exact matches, in which:  
330 unique CDR3  
13 unique J



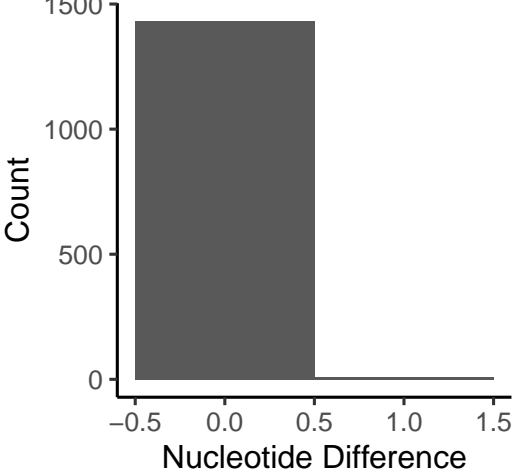
TRBV4-1\*ap01

1924 sequences assigned  
1914 (99.5%) exact matches, in which:  
1904 unique CDR3  
13 unique J



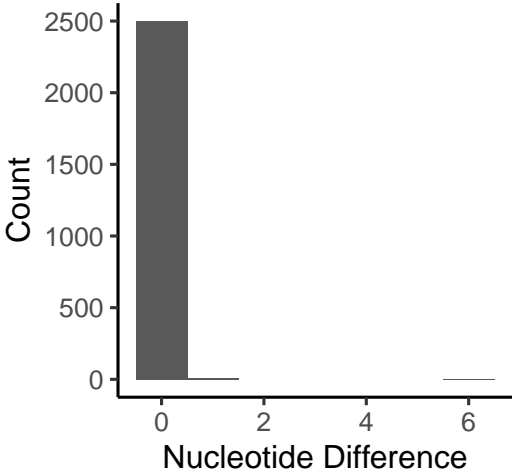
TRBV25-1\*ap01

1441 sequences assigned  
1432 (99.4%) exact matches, in which:  
1429 unique CDR3  
13 unique J



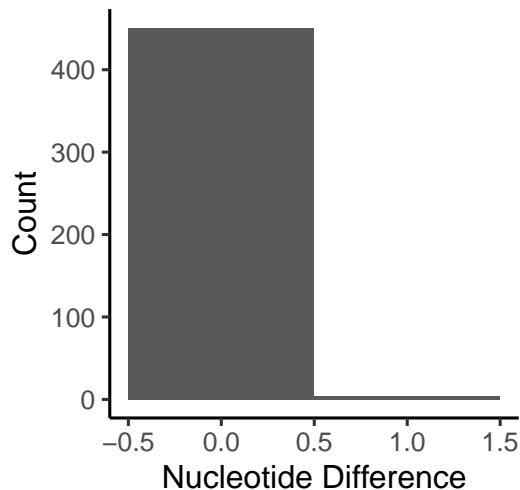
TRBV5-4\*ap01

2510 sequences assigned  
2500 (99.6%) exact matches, in which:  
2487 unique CDR3  
13 unique J



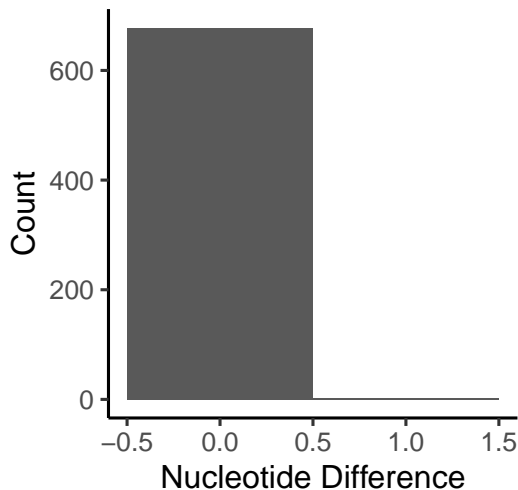
### TRBV5-5\*ap01

455 sequences assigned  
451 (99.1%) exact matches, in which:  
451 unique CDR3  
12 unique J



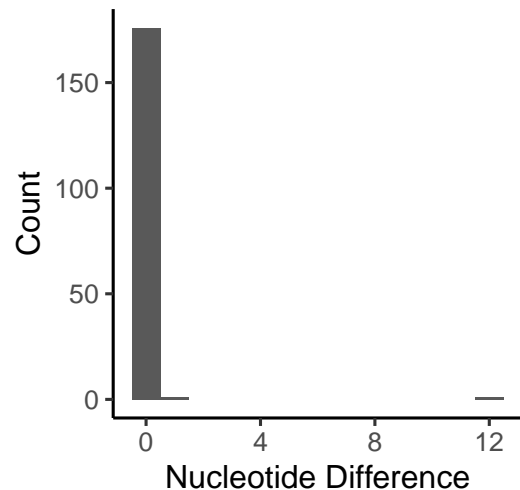
### TRBV5-8\*ap01

681 sequences assigned  
678 (99.6%) exact matches, in which:  
677 unique CDR3  
12 unique J



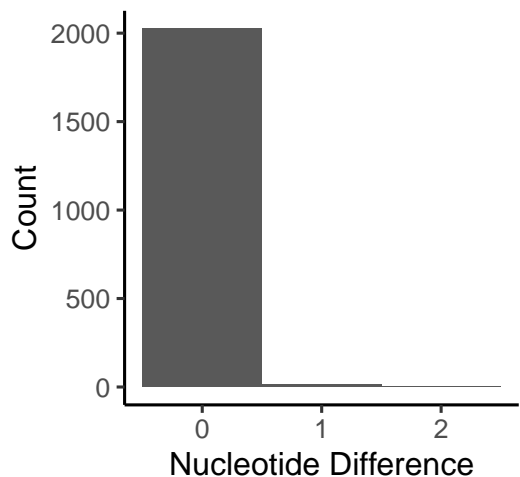
### TRBV6-7\*ap01

178 sequences assigned  
176 (98.9%) exact matches, in which:  
175 unique CDR3  
13 unique J



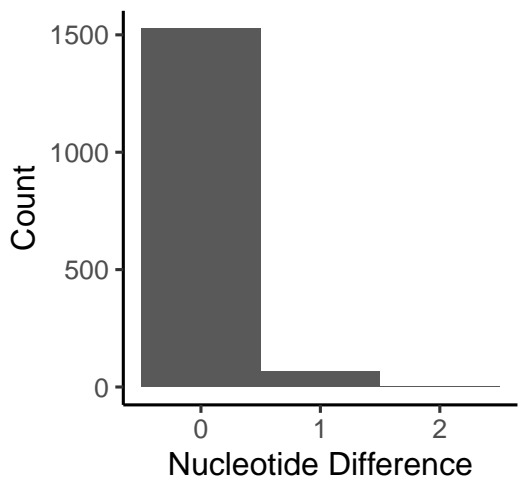
### TRBV5-6\*ap01

2038 sequences assigned  
2025 (99.4%) exact matches, in which:  
2014 unique CDR3  
13 unique J



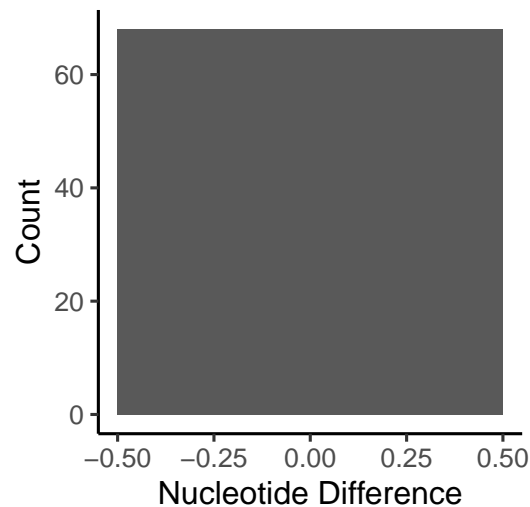
### TRBV6-1\*ap01

1595 sequences assigned  
1526 (95.7%) exact matches, in which:  
1520 unique CDR3  
13 unique J



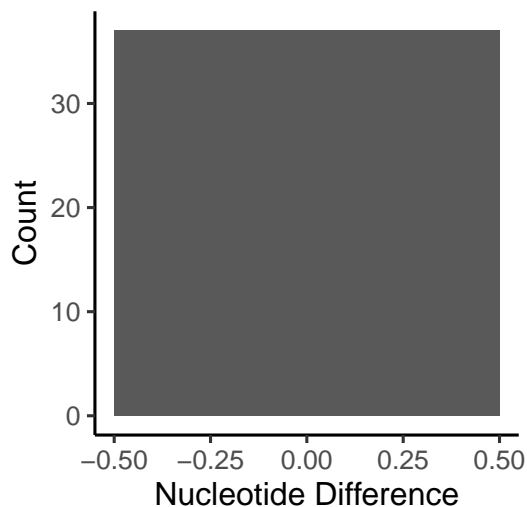
### TRBV6-8\*ap01

68 sequences assigned  
68 (100%) exact matches, in which:  
67 unique CDR3  
12 unique J



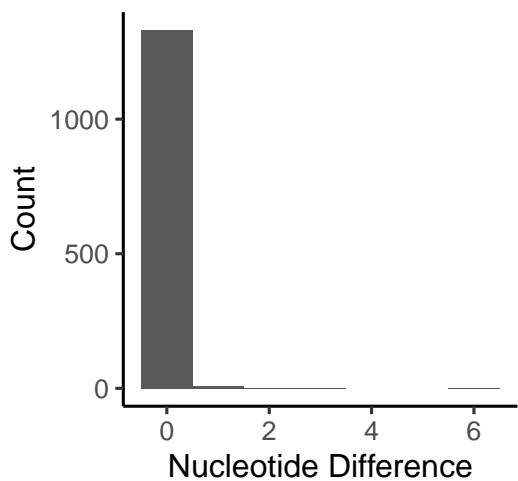
### TRBV5-7\*ap01

37 sequences assigned  
37 (100%) exact matches, in which:  
37 unique CDR3  
10 unique J



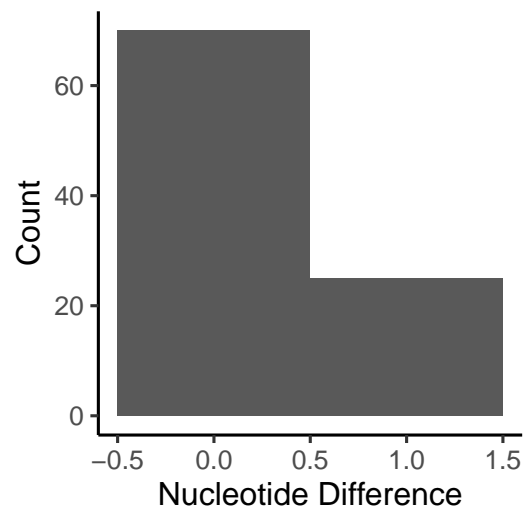
### TRBV6-4\*ap01

1344 sequences assigned  
1331 (99%) exact matches, in which:  
1328 unique CDR3  
13 unique J



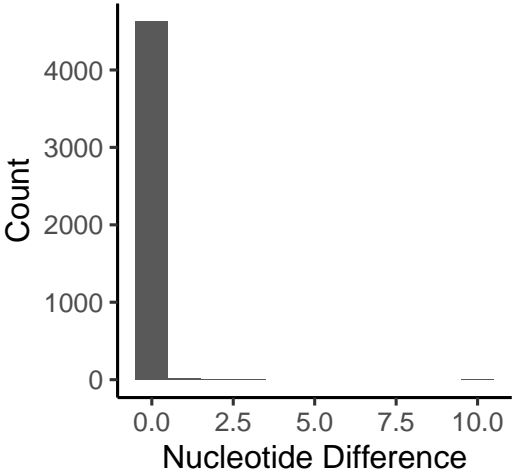
### TRBV6-9\*ap01

95 sequences assigned  
70 (73.7%) exact matches, in which:  
69 unique CDR3  
11 unique J



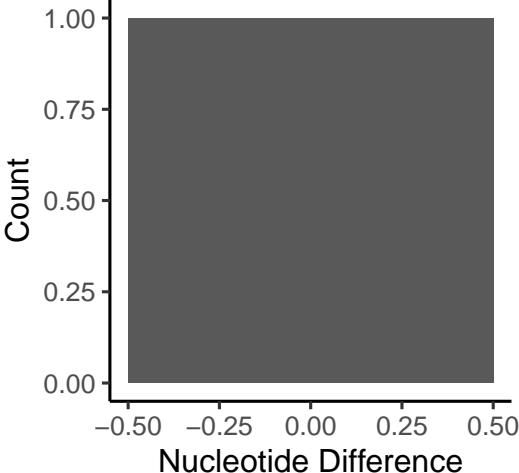
TRBV6-23\*ap01

4651 sequences assigned  
4627 (99.5%) exact matches, in which:  
4620 unique CDR3  
13 unique J



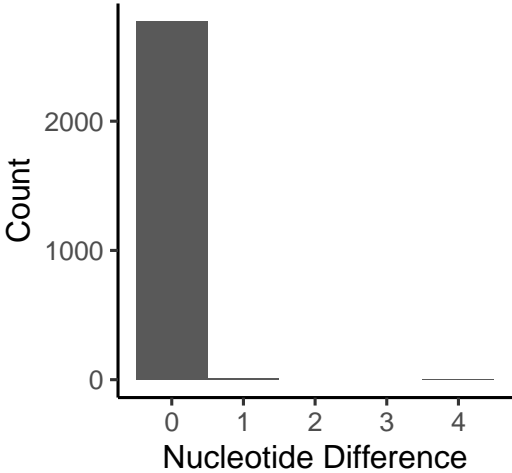
TRBV7-1\*ap01

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



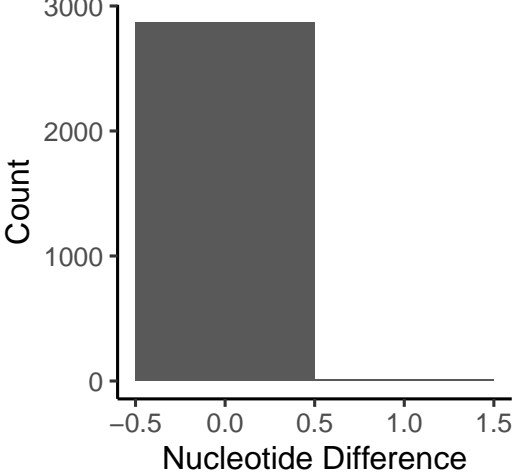
TRBV7-3\*ap01

2781 sequences assigned  
2772 (99.7%) exact matches, in which:  
2764 unique CDR3  
13 unique J



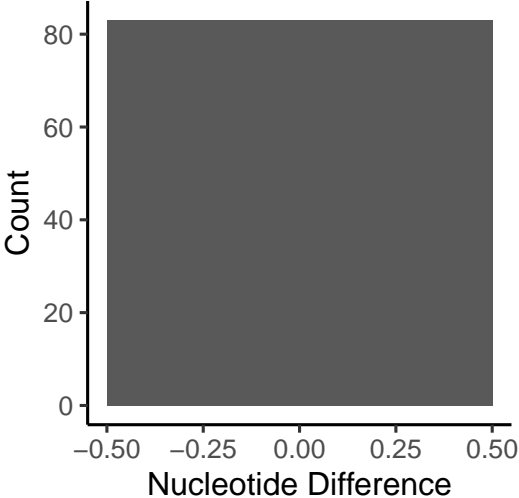
TRBV6-56\*ap01

2875 sequences assigned  
2866 (99.7%) exact matches, in which:  
2854 unique CDR3  
13 unique J



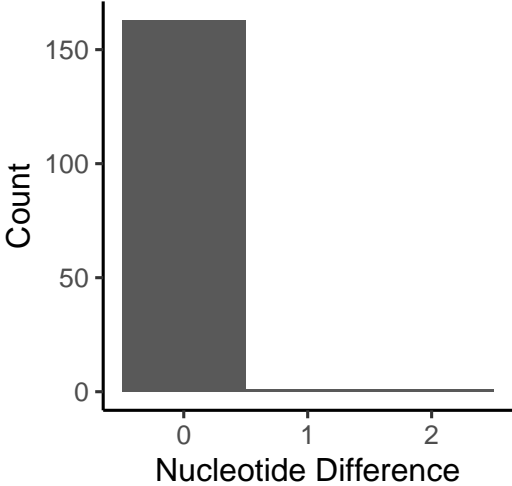
TRBV7-1\*ap01\_G291C\_T

83 sequences assigned  
83 (100%) exact matches, in which:  
82 unique CDR3  
12 unique J



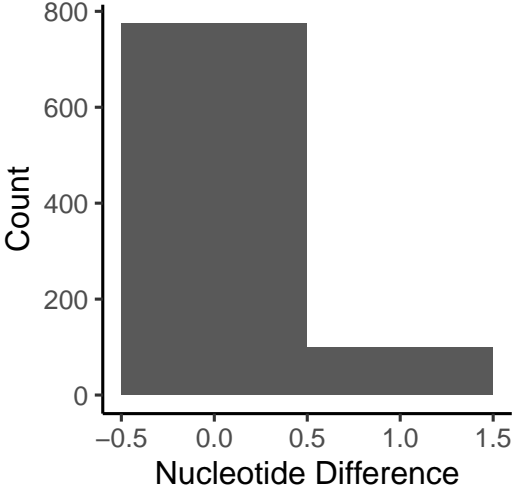
TRBV7-4\*ap01

165 sequences assigned  
163 (98.8%) exact matches, in which:  
162 unique CDR3  
12 unique J



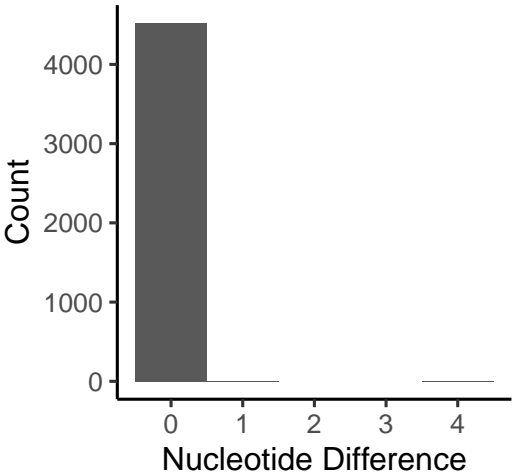
TRBV6-56\*ap02

874 sequences assigned  
775 (88.7%) exact matches, in which:  
774 unique CDR3  
13 unique J



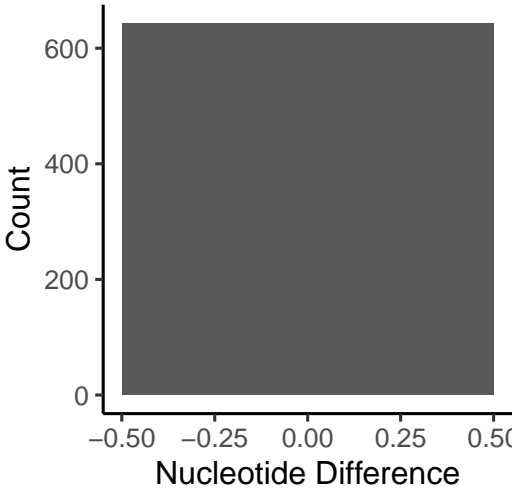
TRBV7-2\*ap01

4530 sequences assigned  
4522 (99.8%) exact matches, in which:  
4510 unique CDR3  
13 unique J



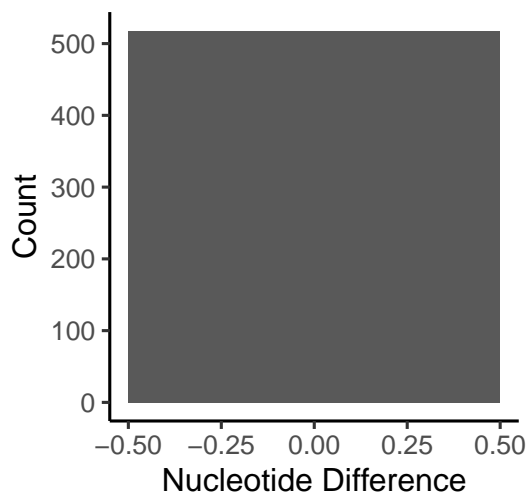
TRBV7-6\*ap01

643 sequences assigned  
643 (100%) exact matches, in which:  
640 unique CDR3  
13 unique J



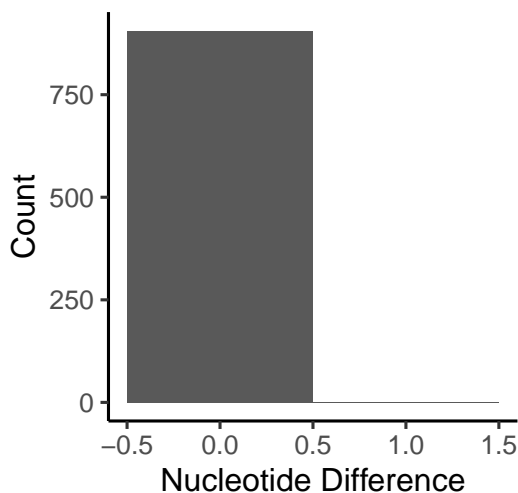
### TRBV7-6\*ap01\_C314G

518 sequences assigned  
518 (100%) exact matches, in which:  
517 unique CDR3  
13 unique J



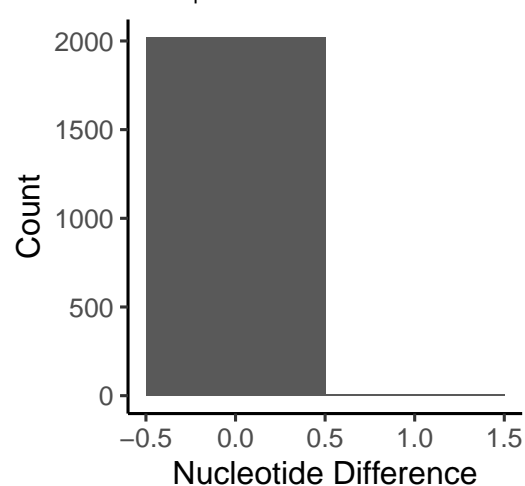
### TRBV7-8\*ap01

907 sequences assigned  
906 (99.9%) exact matches, in which:  
903 unique CDR3  
13 unique J



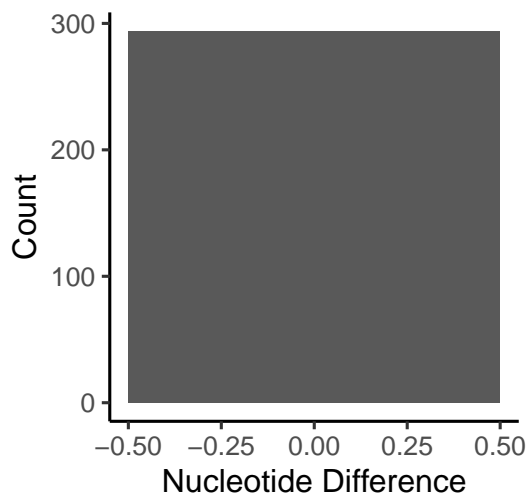
### TRBV29-1\*ap01

2029 sequences assigned  
2020 (99.6%) exact matches, in which:  
2018 unique CDR3  
13 unique J



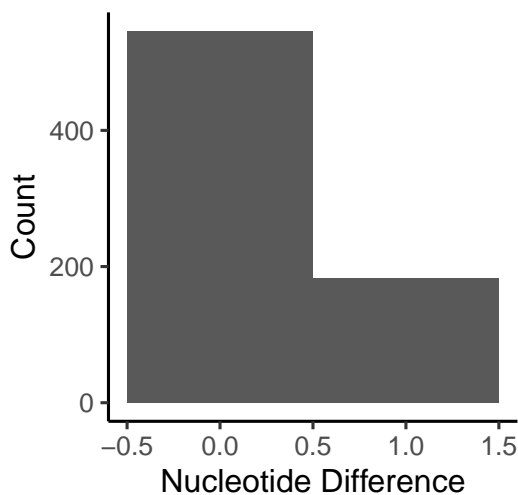
### TRBV7-7\*ap01

294 sequences assigned  
294 (100%) exact matches, in which:  
292 unique CDR3  
12 unique J



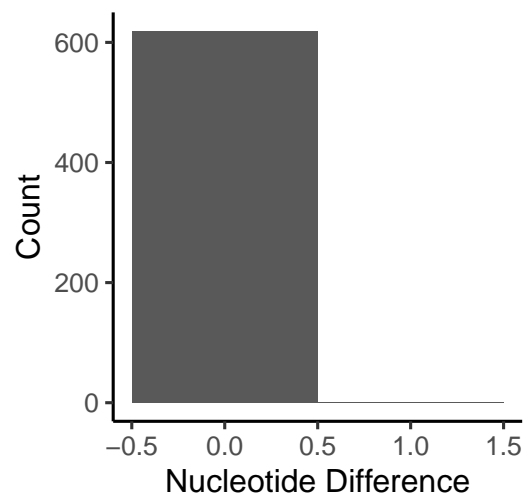
### TRBV7-8\*ap03

729 sequences assigned  
546 (74.9%) exact matches, in which:  
545 unique CDR3  
13 unique J



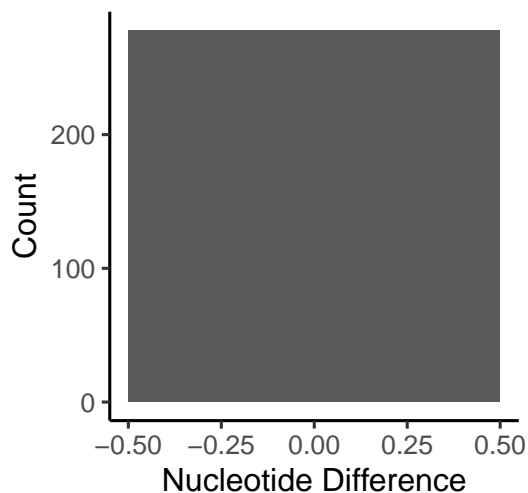
### TRBV29-1\*ap02

620 sequences assigned  
619 (99.8%) exact matches, in which:  
617 unique CDR3  
13 unique J



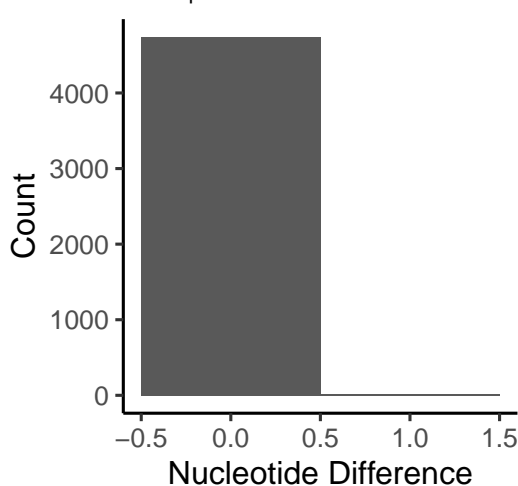
### TRBV7-7\*ap01\_C315T

278 sequences assigned  
278 (100%) exact matches, in which:  
276 unique CDR3  
12 unique J

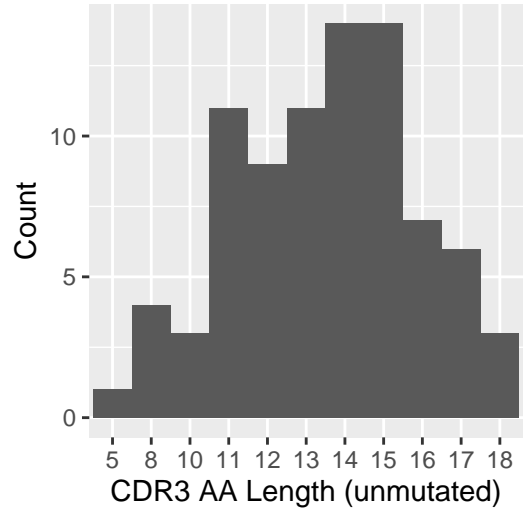


### TRBV7-9\*ap01

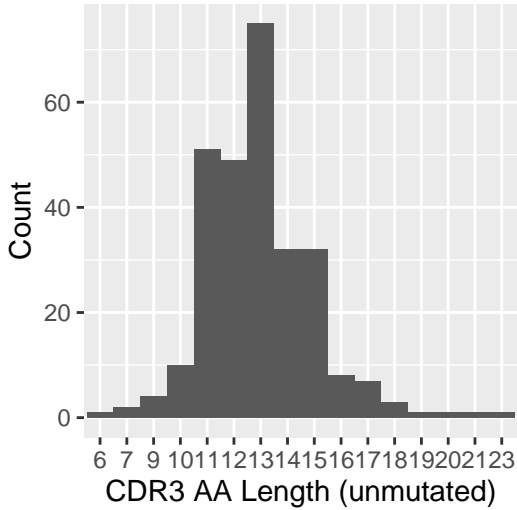
4754 sequences assigned  
4740 (99.7%) exact matches, in which:  
4729 unique CDR3  
13 unique J



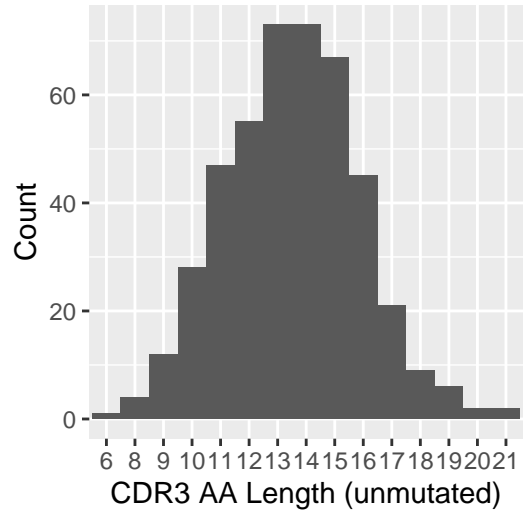
TRBV7-1\*ap01\_G291C\_T29



TRBV7-7\*ap01\_C315T



TRBV23-1\*ap01\_T304C



TRBV7-6\*ap01\_C314G

