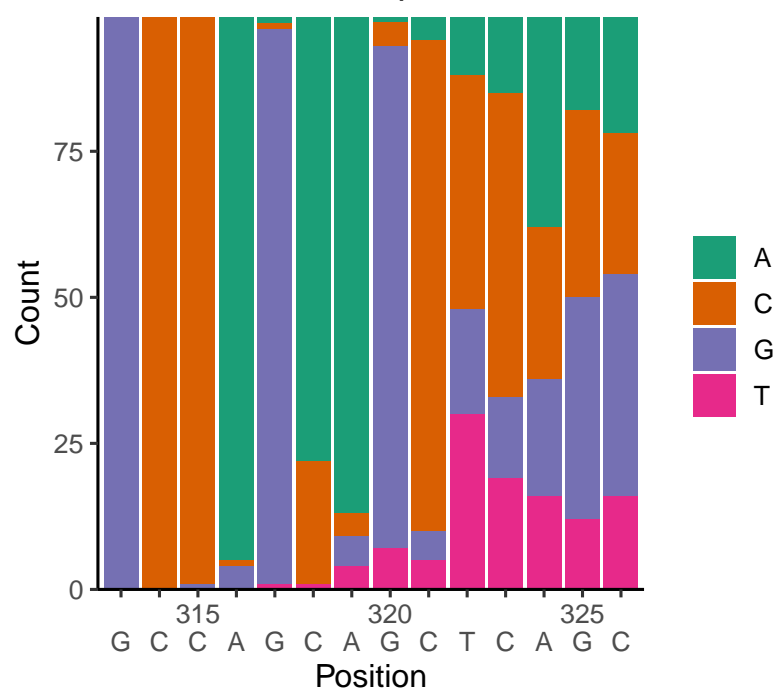
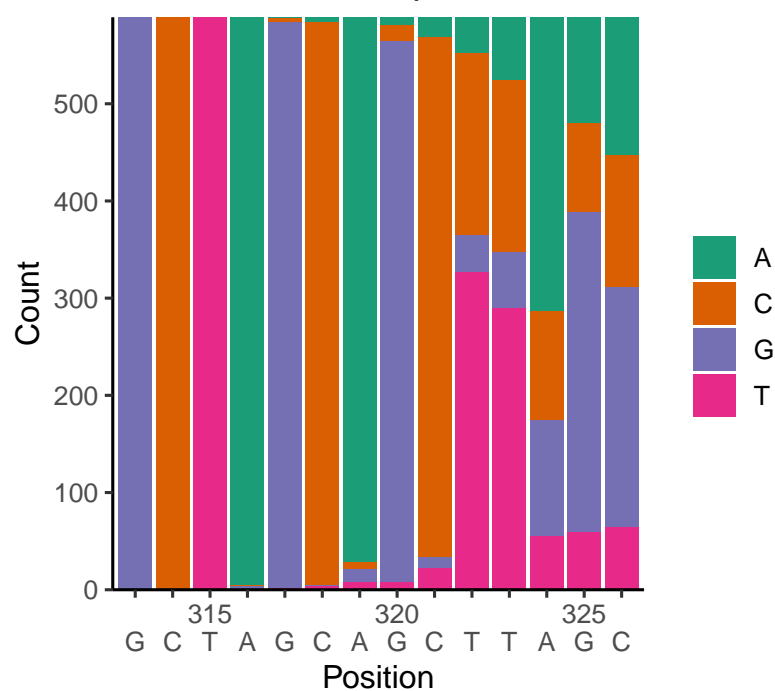


Gene TRBV7-1\*ap01\_T296C



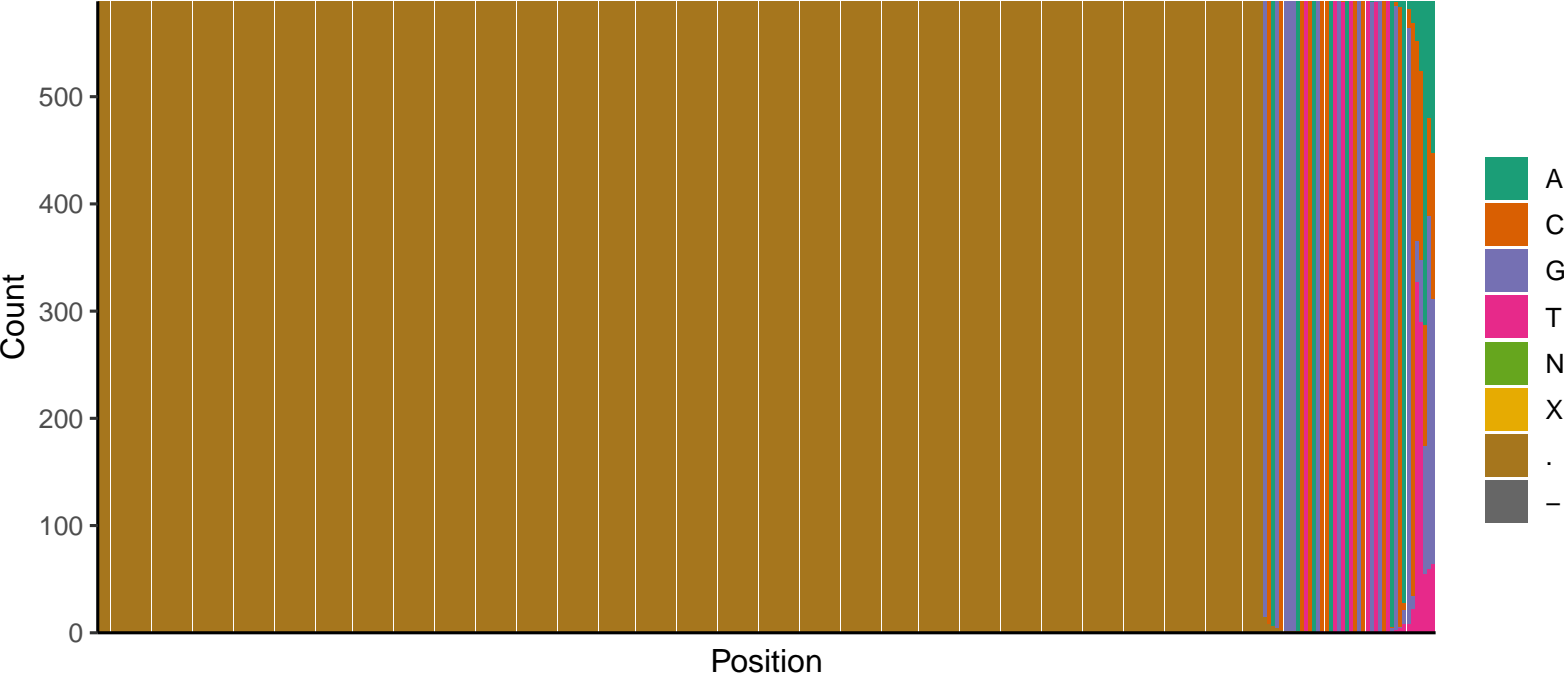
Gene TRBV7-7\*ap01\_C315T



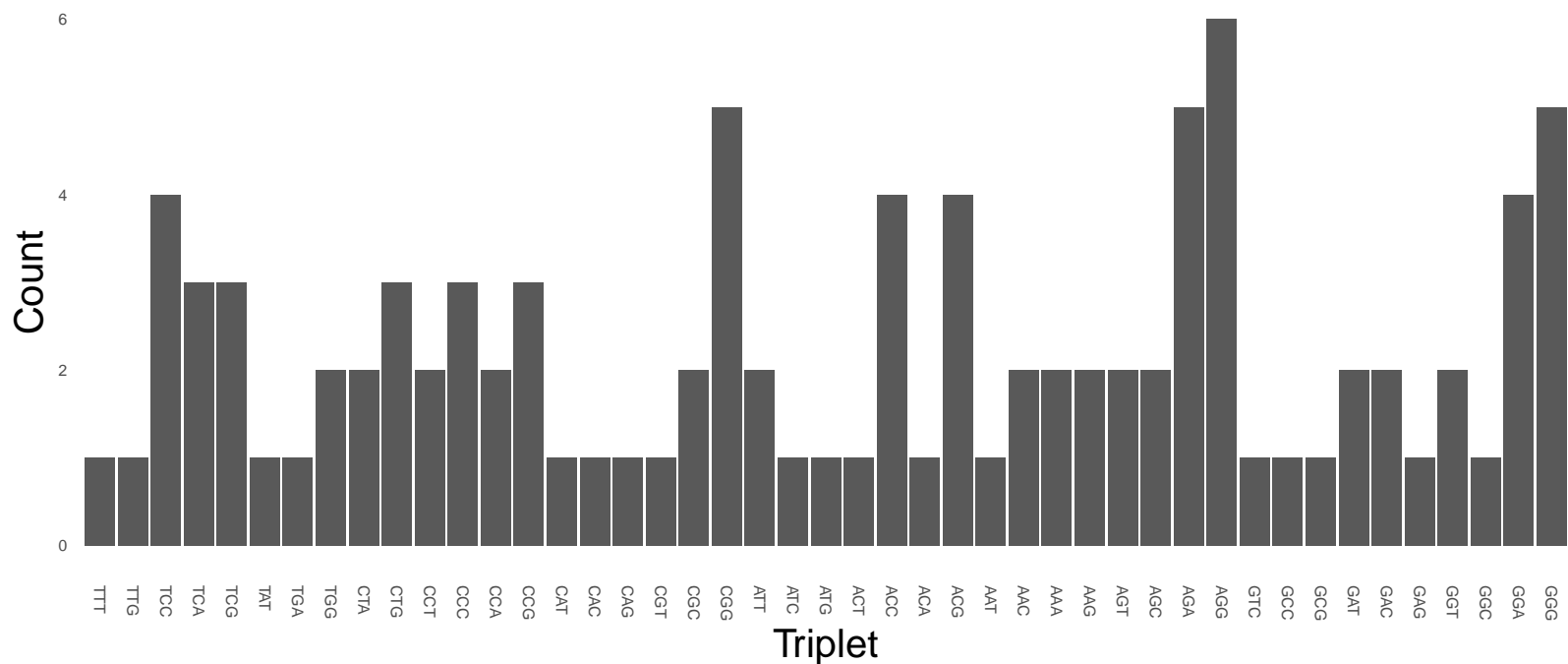
Gene TRBV7-1\*ap01\_T296C



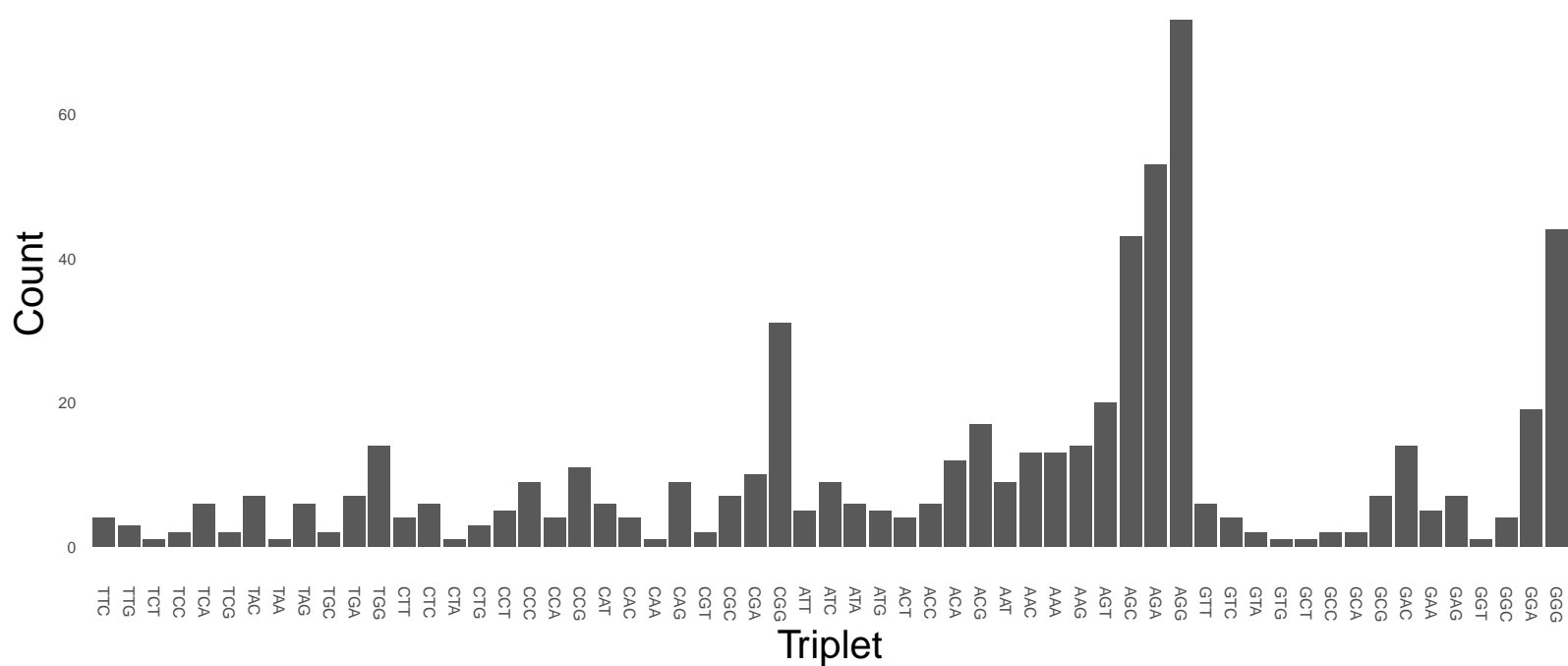
Gene TRBV7-7\*ap01\_C315T



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

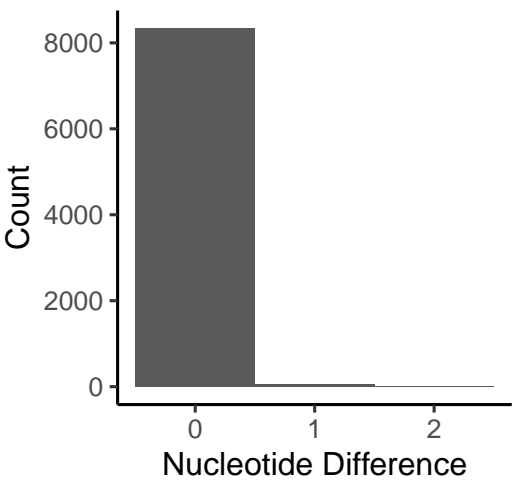


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



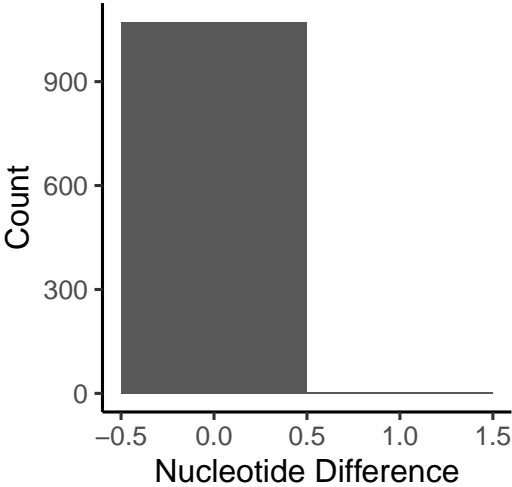
TRBV20-1\*ap01

8385 sequences assigned  
8336 (99.4%) exact matches, in which:  
8303 unique CDR3  
13 unique J



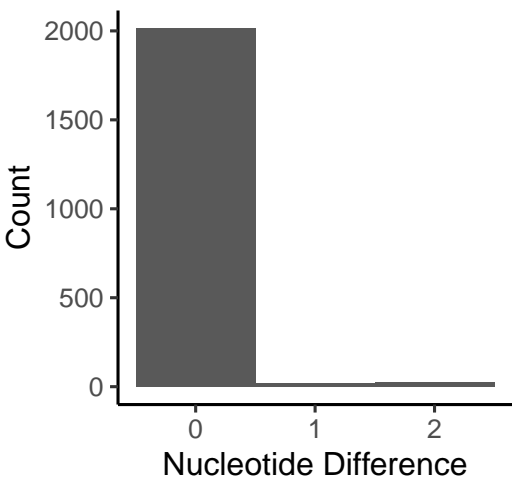
TRBV10-2\*ap01

1077 sequences assigned  
1073 (99.6%) exact matches, in which:  
1065 unique CDR3  
13 unique J



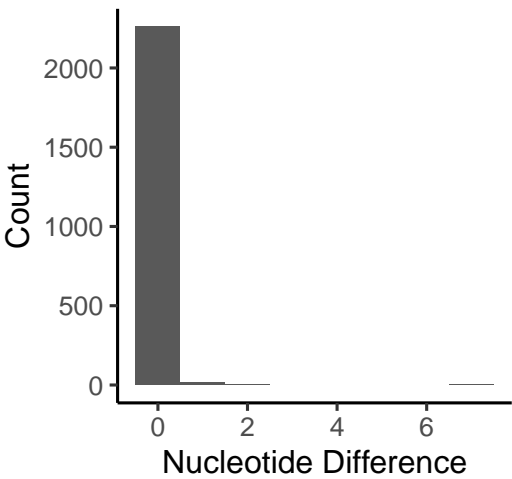
TRBV13\*ap01

2059 sequences assigned  
2014 (97.8%) exact matches, in which:  
1991 unique CDR3  
13 unique J



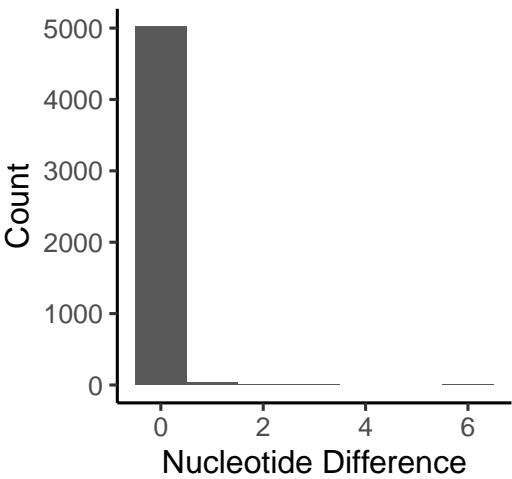
TRBV10-1\*ap01

2275 sequences assigned  
2260 (99.3%) exact matches, in which:  
2249 unique CDR3  
13 unique J



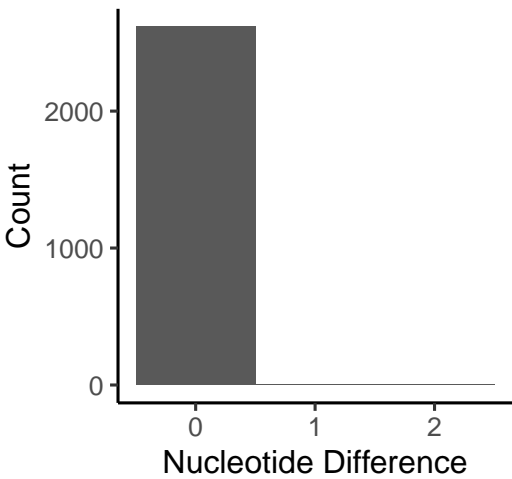
TRBV10-3\*ap01

5054 sequences assigned  
5019 (99.3%) exact matches, in which:  
4994 unique CDR3  
13 unique J



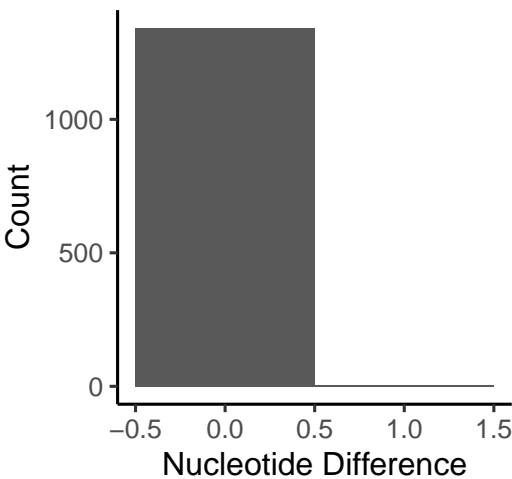
TRBV14\*ap01

2623 sequences assigned  
2616 (99.7%) exact matches, in which:  
2604 unique CDR3  
13 unique J



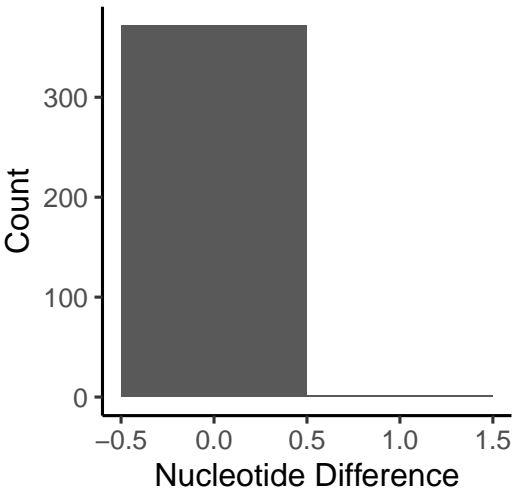
TRBV20-1\*ap02

1348 sequences assigned  
1342 (99.6%) exact matches, in which:  
1335 unique CDR3  
13 unique J



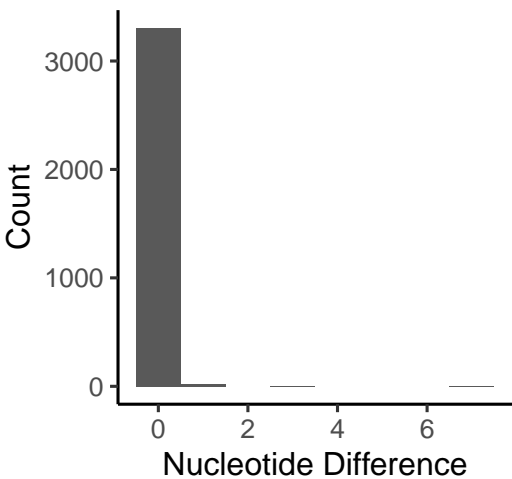
TRBV1\*ap01

374 sequences assigned  
372 (99.5%) exact matches, in which:  
368 unique CDR3  
13 unique J



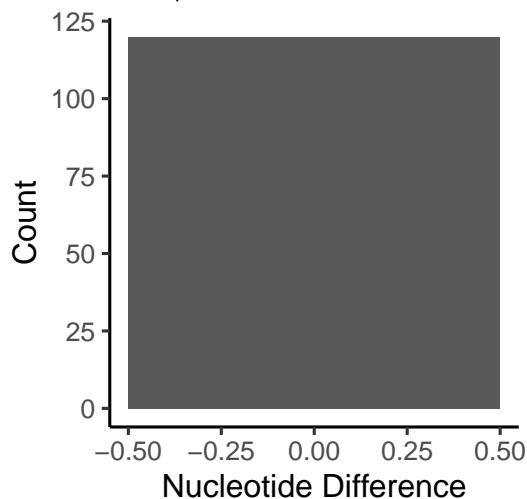
TRBV15\*ap02

3329 sequences assigned  
3304 (99.2%) exact matches, in which:  
3278 unique CDR3  
13 unique J



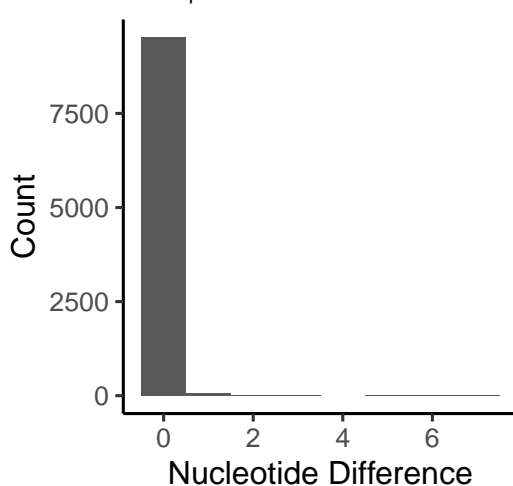
### TRBV16\*ap01

120 sequences assigned  
120 (100%) exact matches, in which:  
120 unique CDR3  
13 unique J



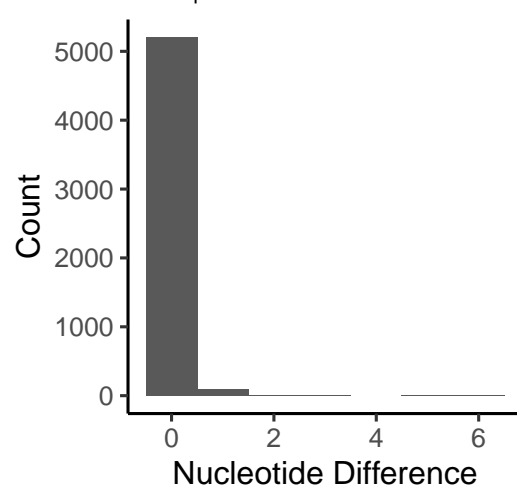
### TRBV2\*ap01

9597 sequences assigned  
9520 (99.2%) exact matches, in which:  
9438 unique CDR3  
13 unique J



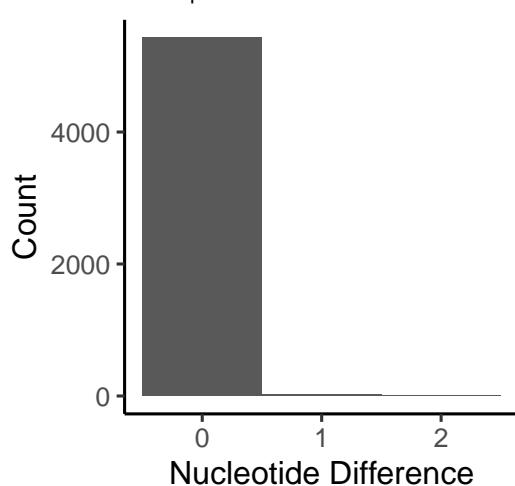
### TRBV30\*ap02

5308 sequences assigned  
5202 (98%) exact matches, in which:  
5118 unique CDR3  
13 unique J



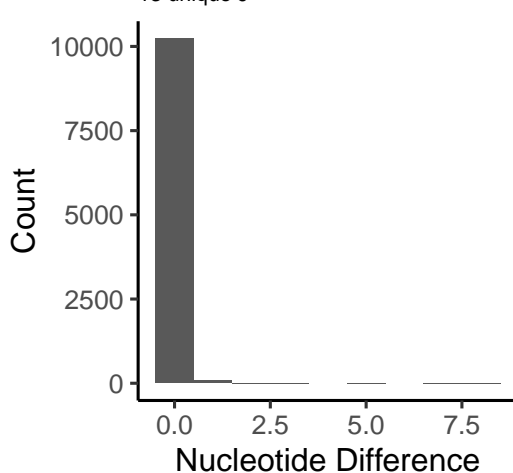
### TRBV18\*ap01

5449 sequences assigned  
5429 (99.6%) exact matches, in which:  
5414 unique CDR3  
13 unique J



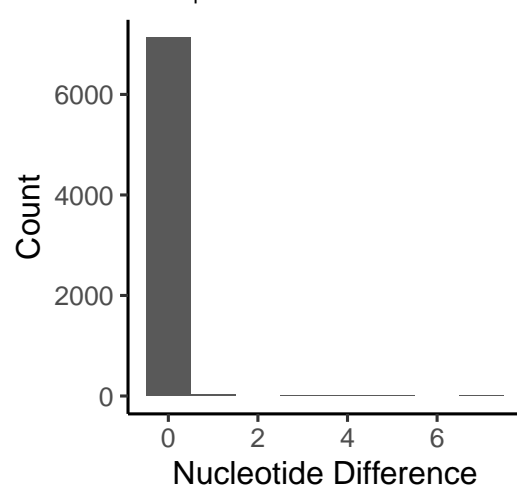
### TRBV27\*ap01

10324 sequences assigned  
10236 (99.1%) exact matches, in which:  
10139 unique CDR3  
13 unique J



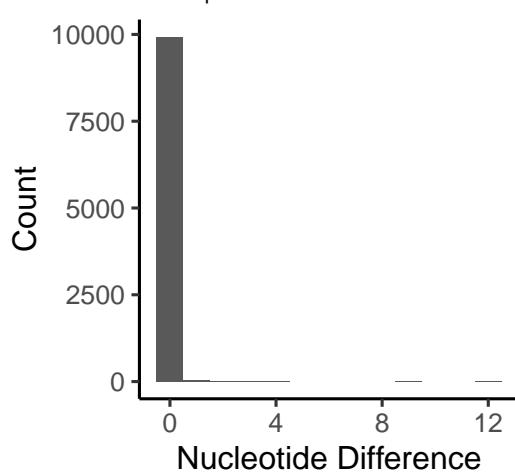
### TRBV9\*ap01

7166 sequences assigned  
7128 (99.5%) exact matches, in which:  
7103 unique CDR3  
13 unique J



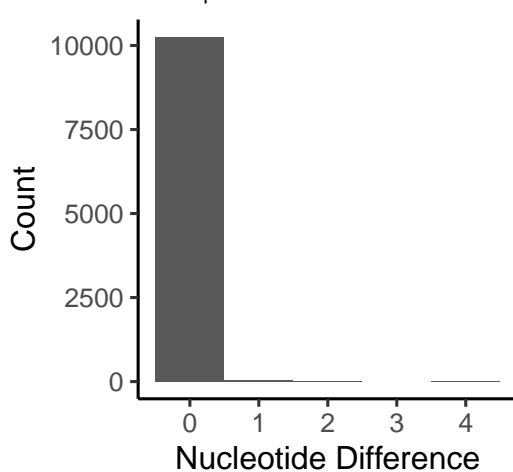
### TRBV19\*ap01

9991 sequences assigned  
9932 (99.4%) exact matches, in which:  
9907 unique CDR3  
13 unique J



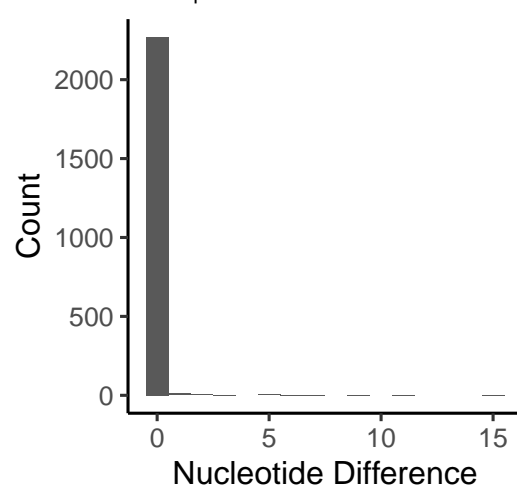
### TRBV28\*ap01

10314 sequences assigned  
10259 (99.5%) exact matches, in which:  
10203 unique CDR3  
13 unique J



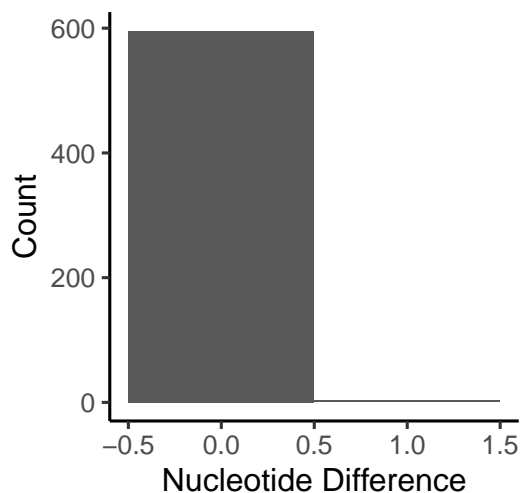
### TRBV21-1\*ap01

2301 sequences assigned  
2270 (98.7%) exact matches, in which:  
2262 unique CDR3  
13 unique J



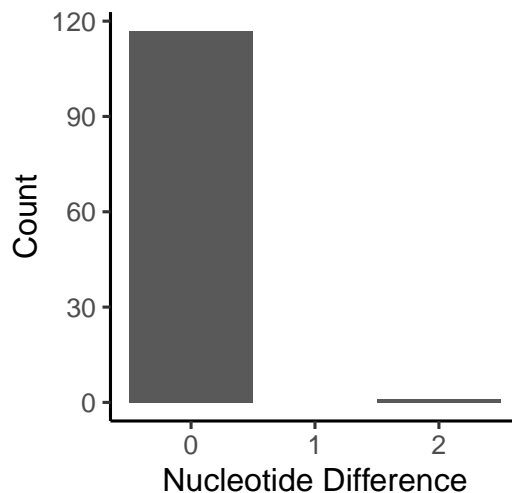
### TRBV11-1\*ap01

599 sequences assigned  
596 (99.5%) exact matches, in which:  
592 unique CDR3  
13 unique J



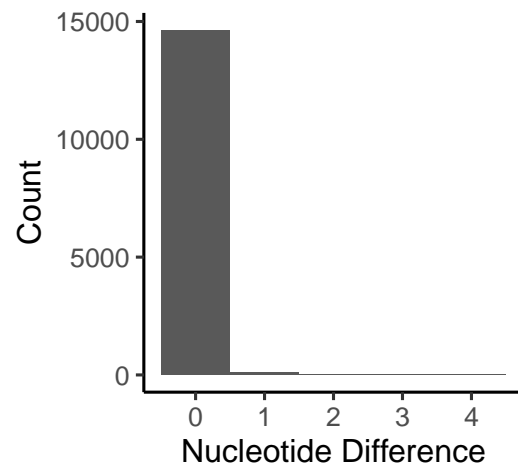
### TRBV12-1\*ap01

118 sequences assigned  
117 (99.2%) exact matches, in which:  
116 unique CDR3  
13 unique J



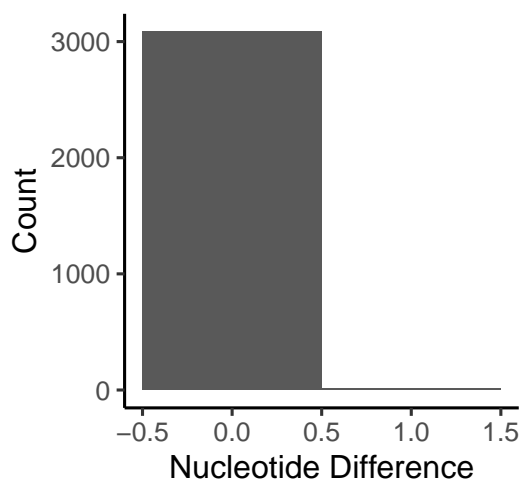
### TRBV12-34\*ap01

14728 sequences assigned  
14632 (99.3%) exact matches, in which:  
14541 unique CDR3  
13 unique J



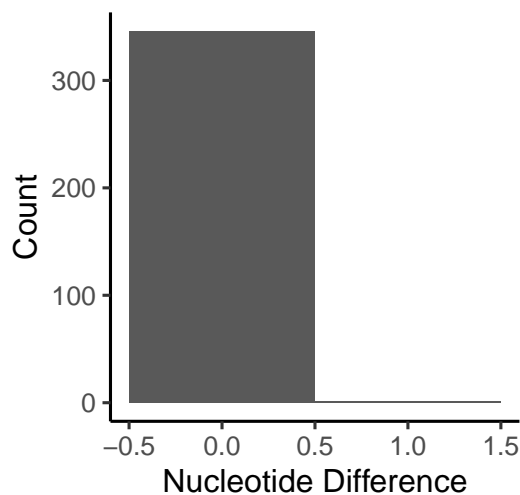
### TRBV11-2\*ap01

3098 sequences assigned  
3085 (99.6%) exact matches, in which:  
3077 unique CDR3  
13 unique J



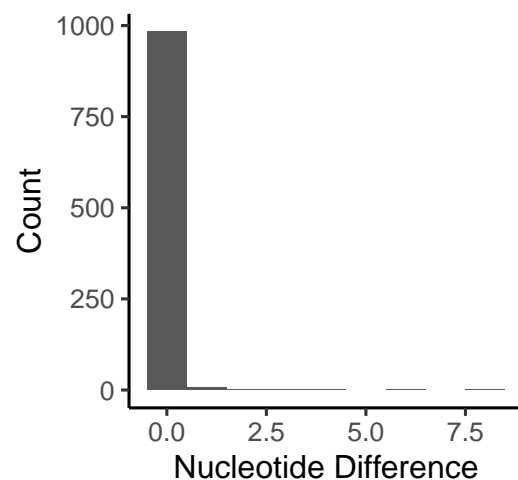
### TRBV12-2\*ap01

347 sequences assigned  
346 (99.7%) exact matches, in which:  
343 unique CDR3  
13 unique J



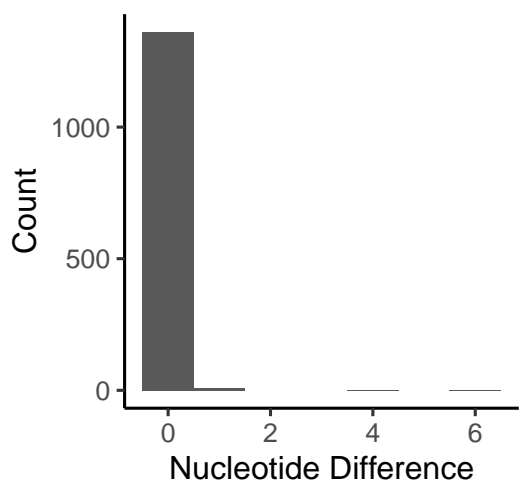
### TRBV23-1\*ap01

997 sequences assigned  
983 (98.6%) exact matches, in which:  
976 unique CDR3  
13 unique J



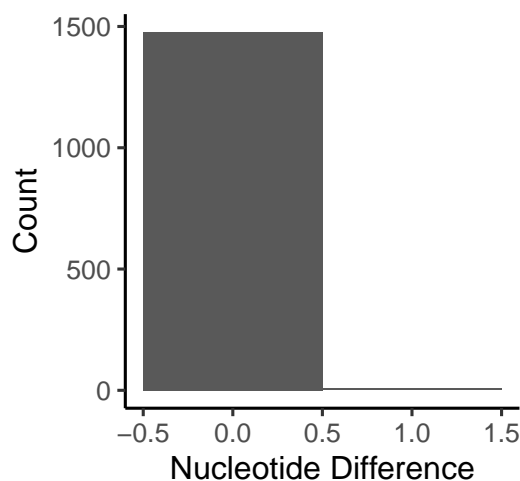
### TRBV11-3\*ap01

1372 sequences assigned  
1361 (99.2%) exact matches, in which:  
1361 unique CDR3  
13 unique J



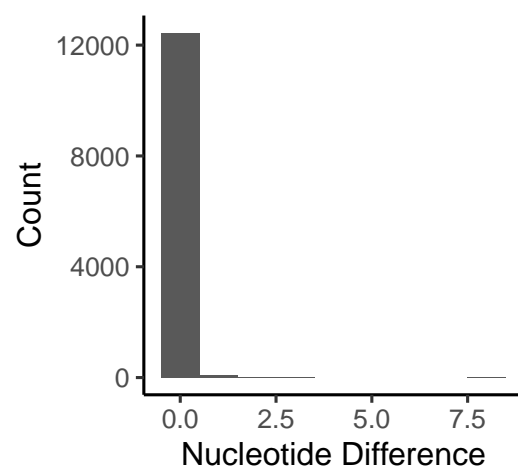
### TRBV12-5\*ap01

1485 sequences assigned  
1477 (99.5%) exact matches, in which:  
1469 unique CDR3  
13 unique J



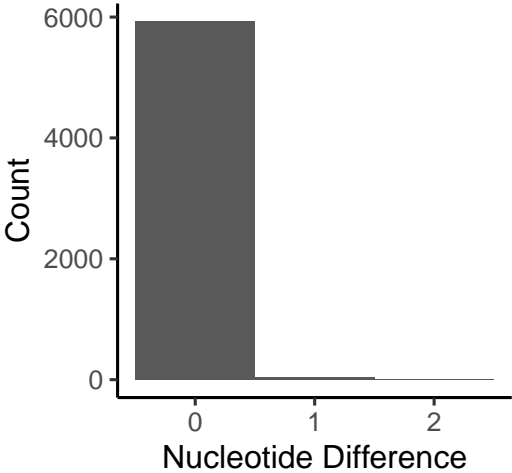
### TRBV3-12\*ap01

12525 sequences assigned  
12445 (99.4%) exact matches, in which:  
12355 unique CDR3  
13 unique J



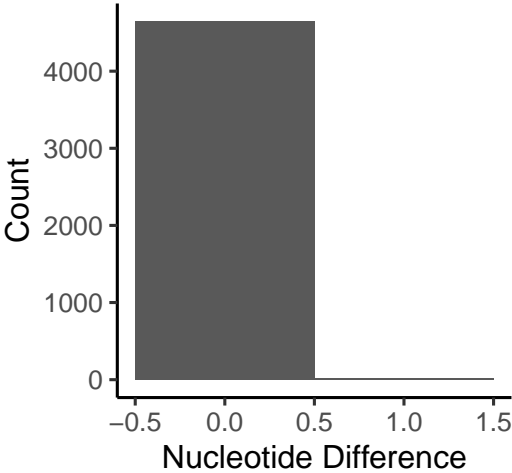
TRBV4-1\*ap01

5965 sequences assigned  
5928 (99.4%) exact matches, in which:  
5873 unique CDR3  
13 unique J



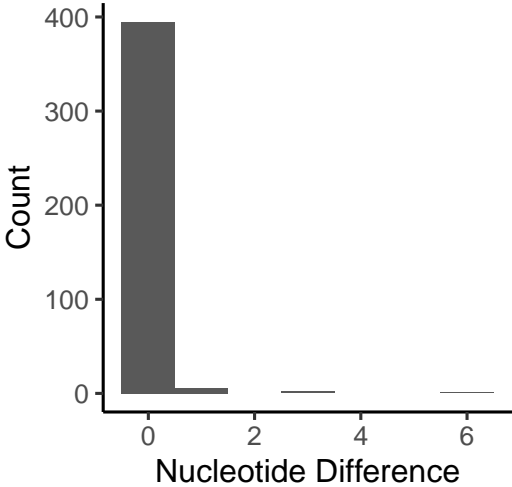
TRBV4-3\*ap01

4668 sequences assigned  
4645 (99.5%) exact matches, in which:  
4607 unique CDR3  
13 unique J



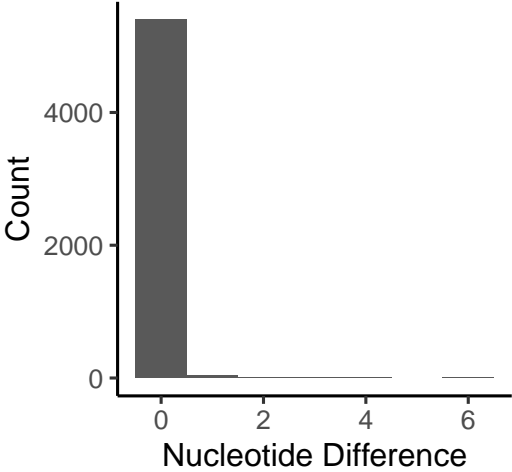
TRBV5-3\*ap01

404 sequences assigned  
395 (97.8%) exact matches, in which:  
394 unique CDR3  
13 unique J



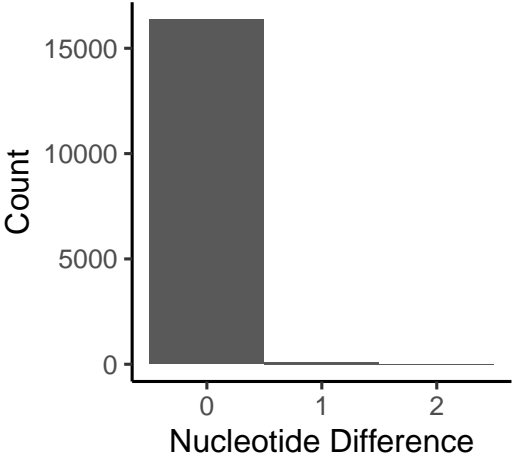
TRBV24-1\*ap01

5438 sequences assigned  
5397 (99.2%) exact matches, in which:  
5355 unique CDR3  
13 unique J



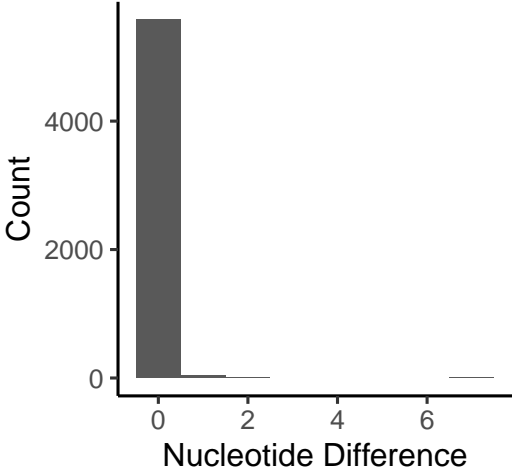
TRBV5-1\*ap01

16475 sequences assigned  
16368 (99.4%) exact matches, in which:  
16181 unique CDR3  
14 unique J



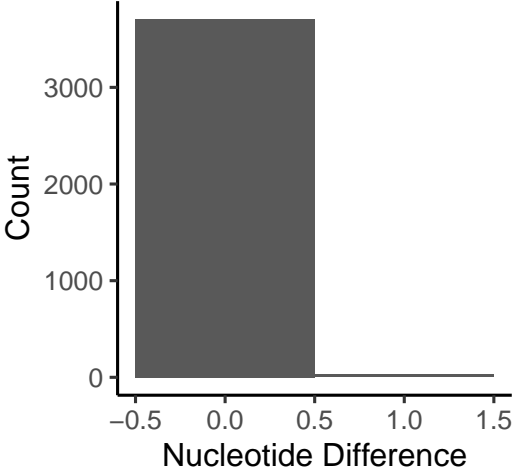
TRBV5-4\*ap01

5623 sequences assigned  
5579 (99.2%) exact matches, in which:  
5533 unique CDR3  
13 unique J



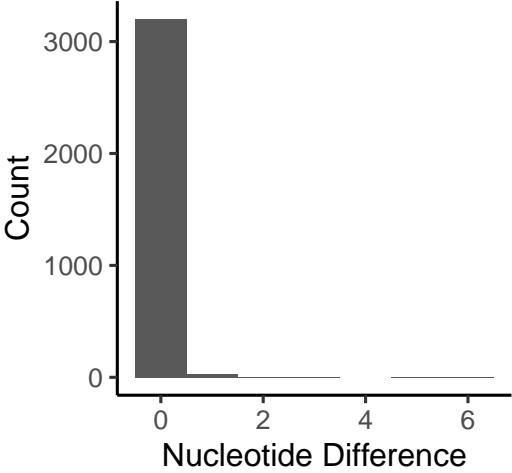
TRBV4-2\*ap01

3736 sequences assigned  
3707 (99.2%) exact matches, in which:  
3671 unique CDR3  
13 unique J



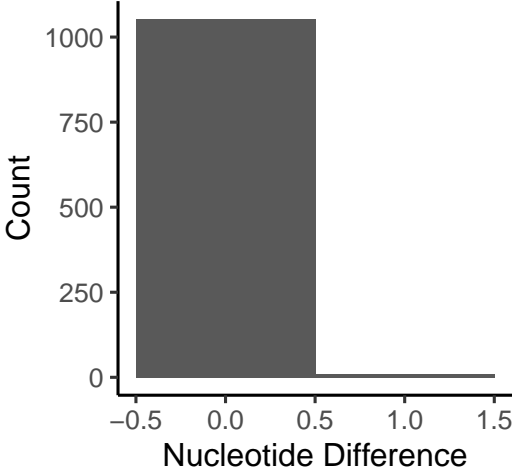
TRBV25-1\*ap01

3239 sequences assigned  
3201 (98.8%) exact matches, in which:  
3173 unique CDR3  
13 unique J



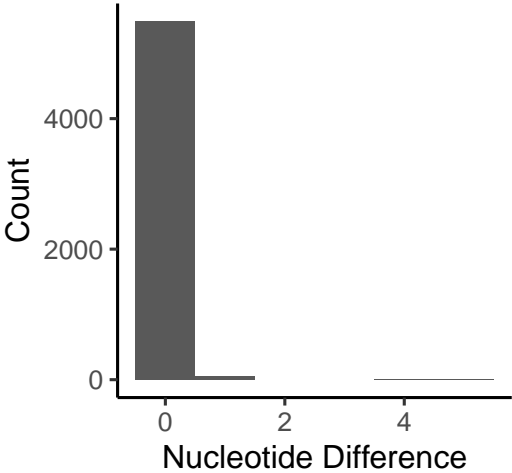
TRBV5-5\*ap01

1062 sequences assigned  
1053 (99.2%) exact matches, in which:  
1052 unique CDR3  
13 unique J



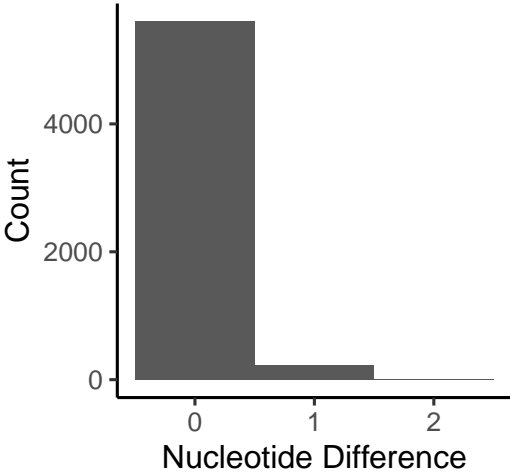
TRBV5-6\*ap01

5544 sequences assigned  
5490 (99%) exact matches, in which:  
5413 unique CDR3  
13 unique J



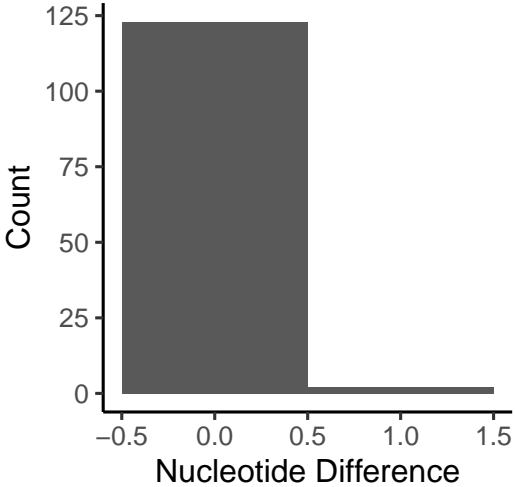
TRBV6-1\*ap01

5834 sequences assigned  
5603 (96%) exact matches, in which:  
5536 unique CDR3  
13 unique J



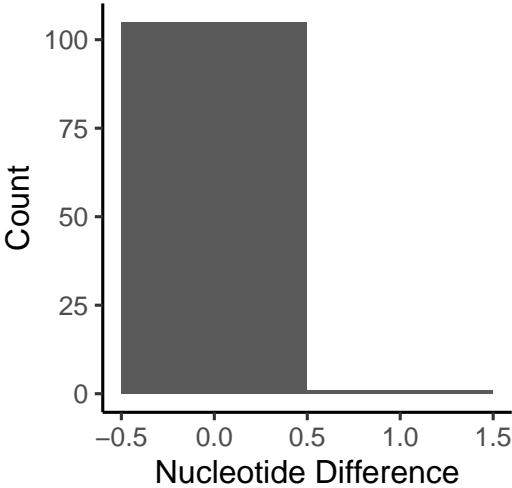
TRBV6-8\*ap01

125 sequences assigned  
123 (98.4%) exact matches, in which:  
122 unique CDR3  
13 unique J



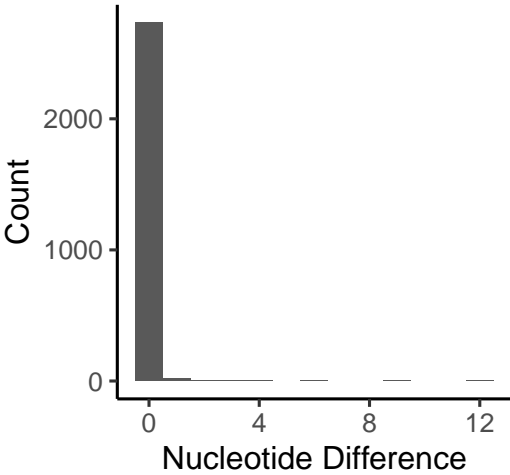
TRBV5-7\*ap01

106 sequences assigned  
105 (99.1%) exact matches, in which:  
104 unique CDR3  
13 unique J



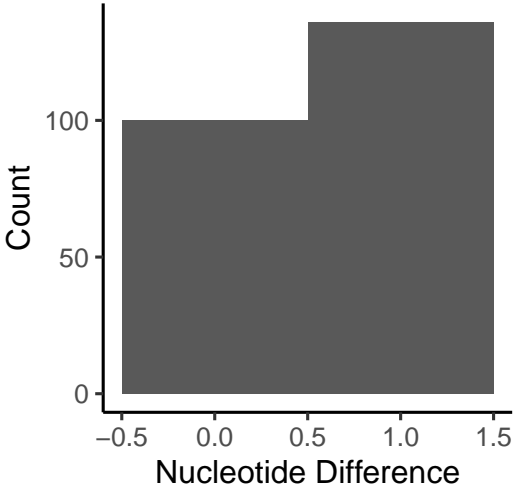
TRBV6-4\*ap01

2764 sequences assigned  
2733 (98.9%) exact matches, in which:  
2721 unique CDR3  
13 unique J



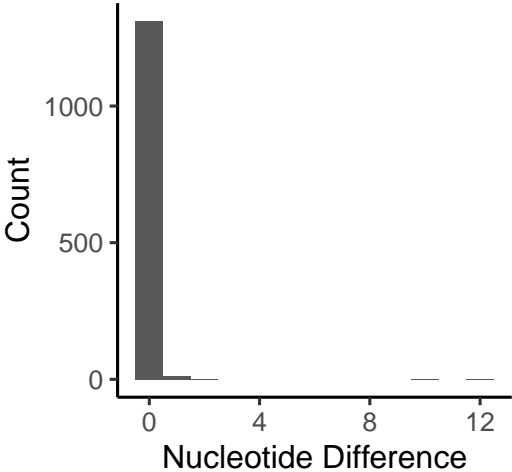
TRBV6-9\*ap01

236 sequences assigned  
100 (42.4%) exact matches, in which:  
100 unique CDR3  
13 unique J



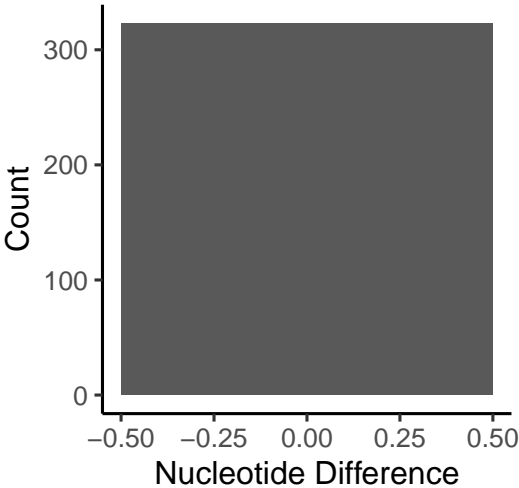
TRBV5-8\*ap01

1326 sequences assigned  
1311 (98.9%) exact matches, in which:  
1307 unique CDR3  
13 unique J



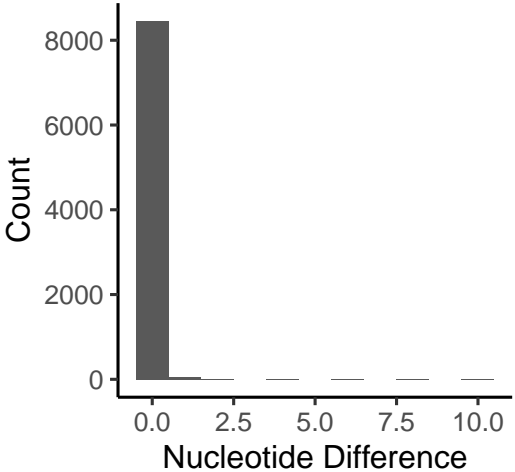
TRBV6-7\*ap01

323 sequences assigned  
323 (100%) exact matches, in which:  
320 unique CDR3  
13 unique J



TRBV6-23\*ap01

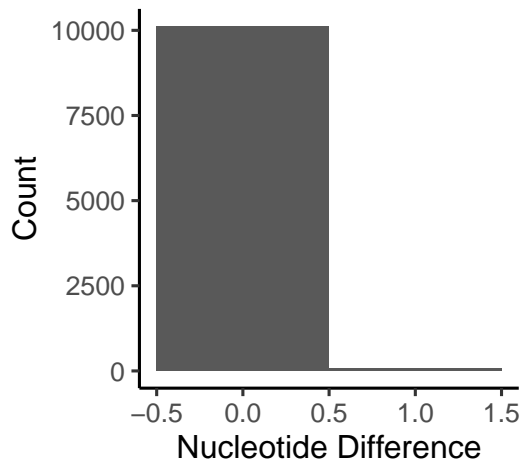
8519 sequences assigned  
8453 (99.2%) exact matches, in which:  
8354 unique CDR3  
13 unique J





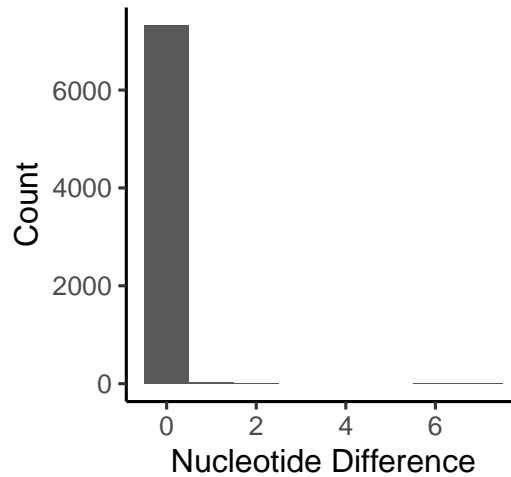
### TRBV6-56\*ap01

10209 sequences assigned  
10123 (99.2%) exact matches, in which:  
10008 unique CDR3  
13 unique J



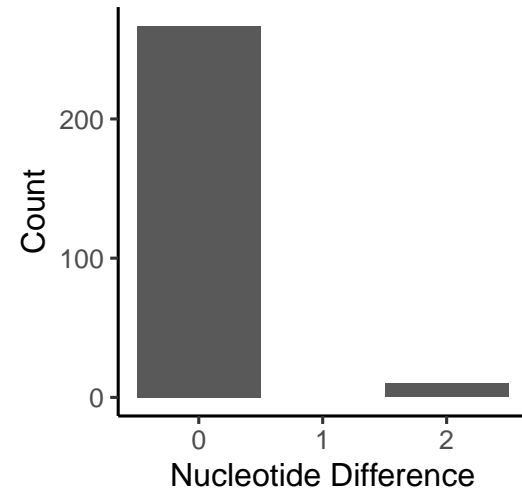
### TRBV7-2\*ap01

7359 sequences assigned  
7321 (99.5%) exact matches, in which:  
7297 unique CDR3  
13 unique J



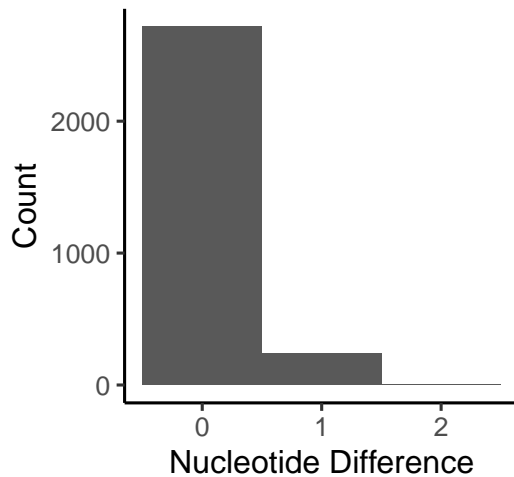
### TRBV7-4\*ap01

277 sequences assigned  
267 (96.4%) exact matches, in which:  
265 unique CDR3  
13 unique J



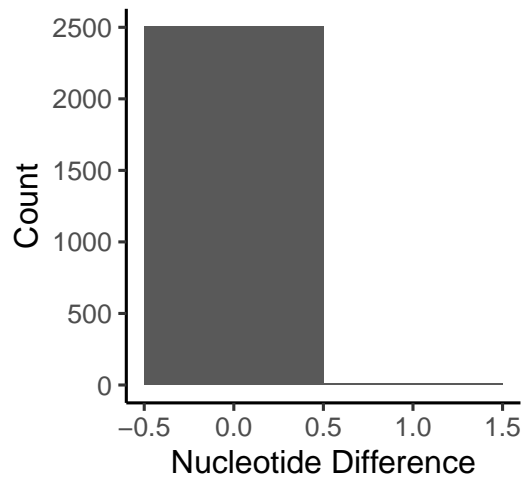
### TRBV6-56\*ap02

2962 sequences assigned  
2716 (91.7%) exact matches, in which:  
2685 unique CDR3  
13 unique J



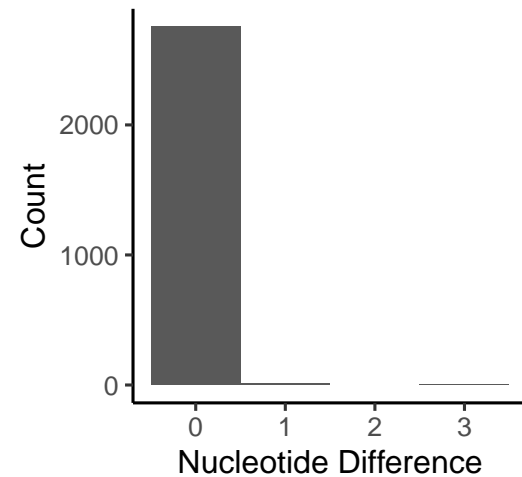
### TRBV7-3\*ap01

2517 sequences assigned  
2504 (99.5%) exact matches, in which:  
2494 unique CDR3  
13 unique J



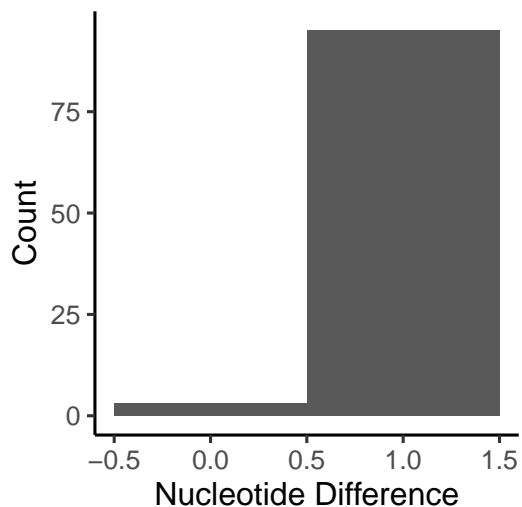
### TRBV7-6\*ap01

2769 sequences assigned  
2755 (99.5%) exact matches, in which:  
2741 unique CDR3  
13 unique J



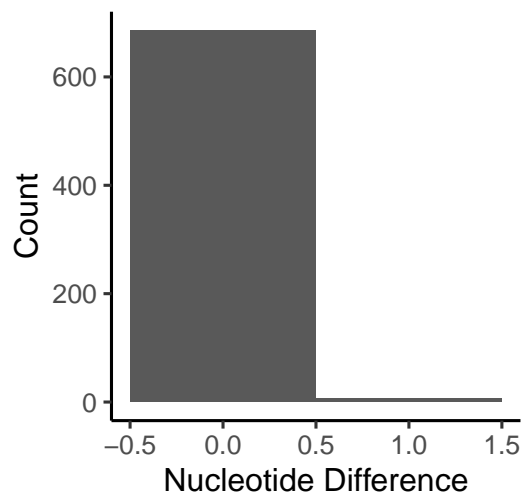
### TRBV7-1\*ap01\_T296C

98 sequences assigned  
3 (3.1%) exact matches, in which:  
3 unique CDR3  
3 unique J



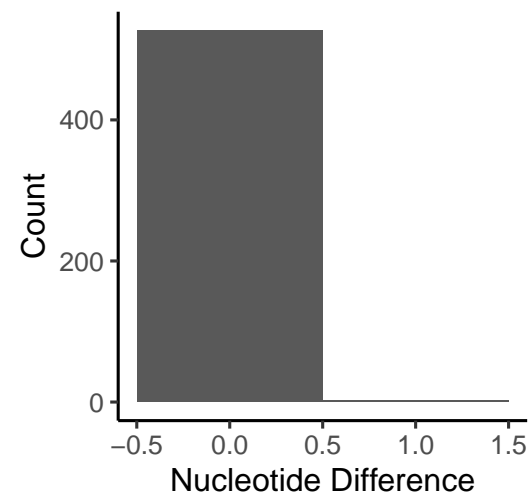
### TRBV7-3\*ap03

692 sequences assigned  
686 (99.1%) exact matches, in which:  
685 unique CDR3  
13 unique J



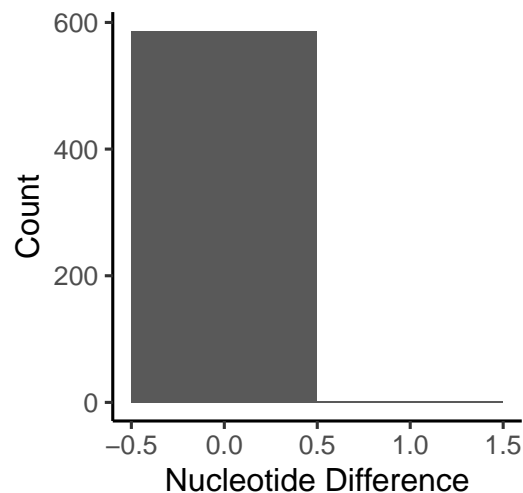
### TRBV7-7\*ap01

529 sequences assigned  
527 (99.6%) exact matches, in which:  
522 unique CDR3  
13 unique J



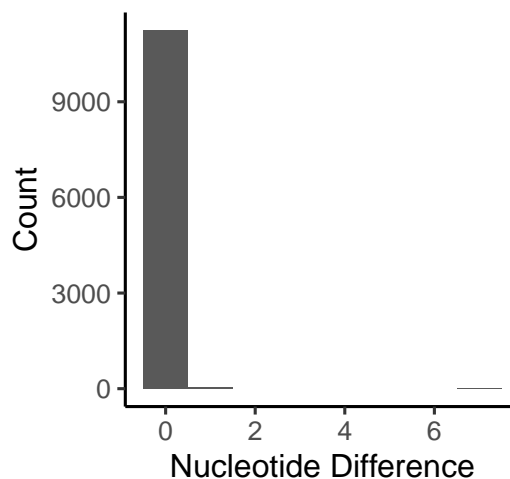
### TRBV7-7\*ap01\_C315T

589 sequences assigned  
587 (99.7%) exact matches, in which:  
582 unique CDR3  
13 unique J



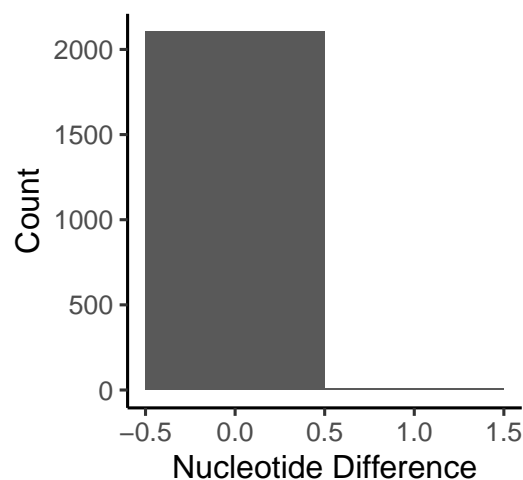
### TRBV7-9\*ap01

11284 sequences assigned  
11239 (99.6%) exact matches, in which:  
11187 unique CDR3  
14 unique J



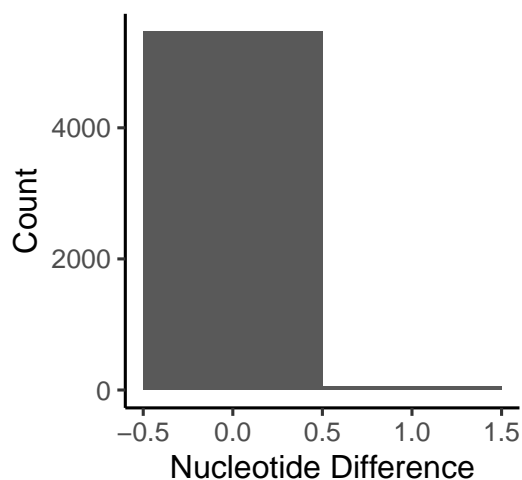
### TRBV7-8\*ap01

2115 sequences assigned  
2104 (99.5%) exact matches, in which:  
2090 unique CDR3  
13 unique J



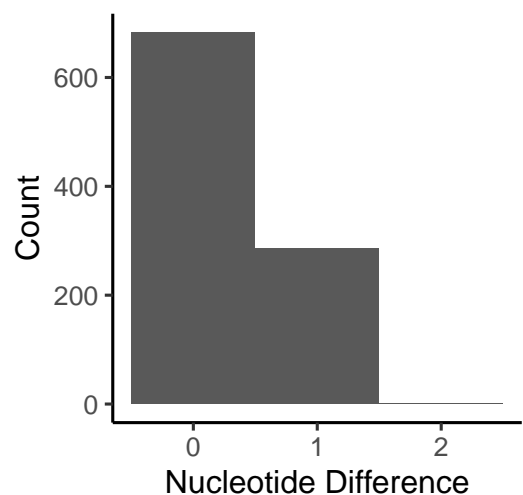
### TRBV29-1\*ap01

5523 sequences assigned  
5466 (99%) exact matches, in which:  
5337 unique CDR3  
13 unique J



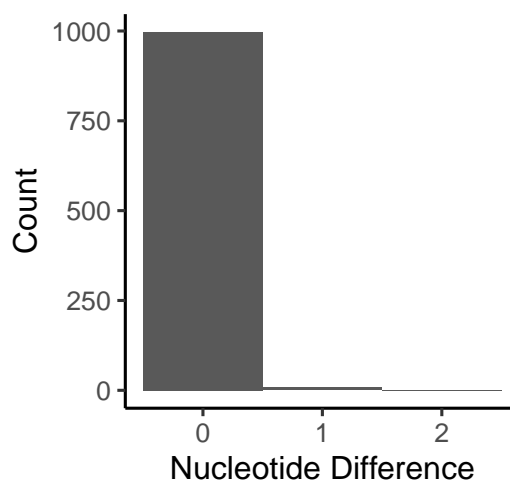
### TRBV7-8\*ap03

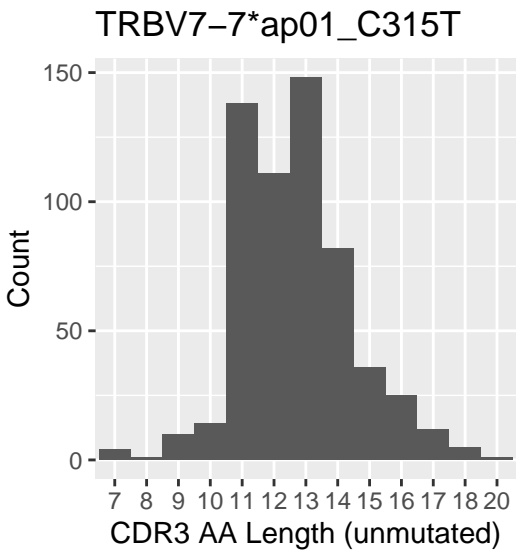
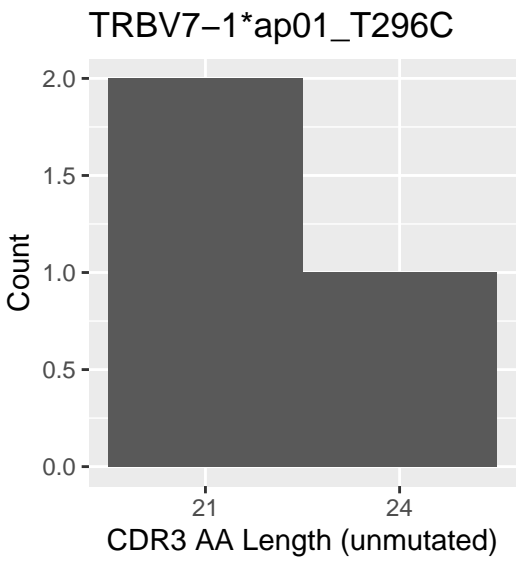
970 sequences assigned  
683 (70.4%) exact matches, in which:  
679 unique CDR3  
13 unique J



### TRBV29-1\*ap02

1006 sequences assigned  
997 (99.1%) exact matches, in which:  
974 unique CDR3  
13 unique J







[illegible]