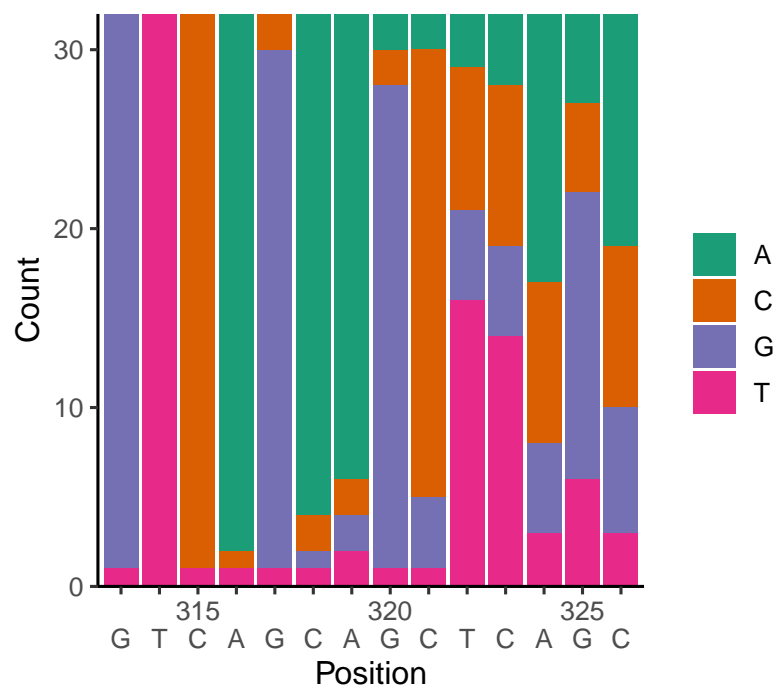
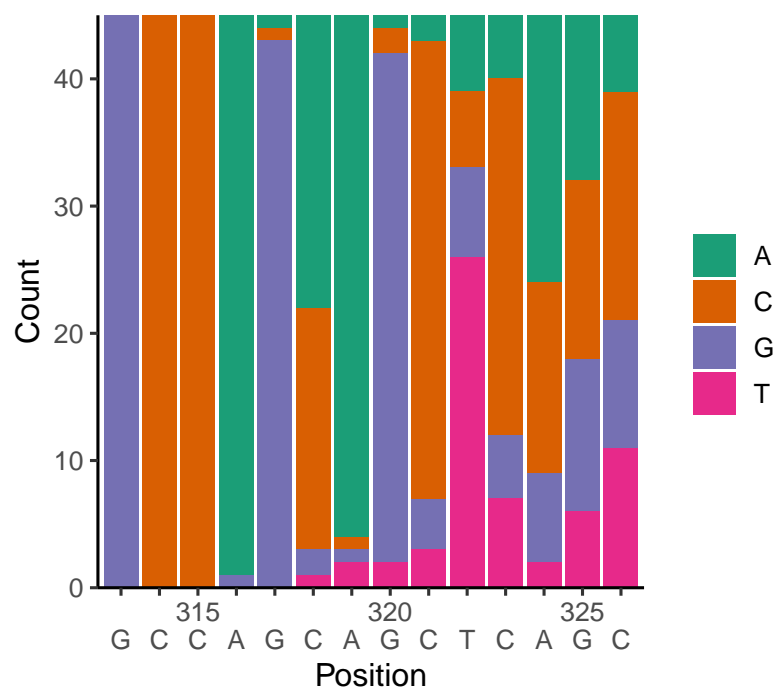


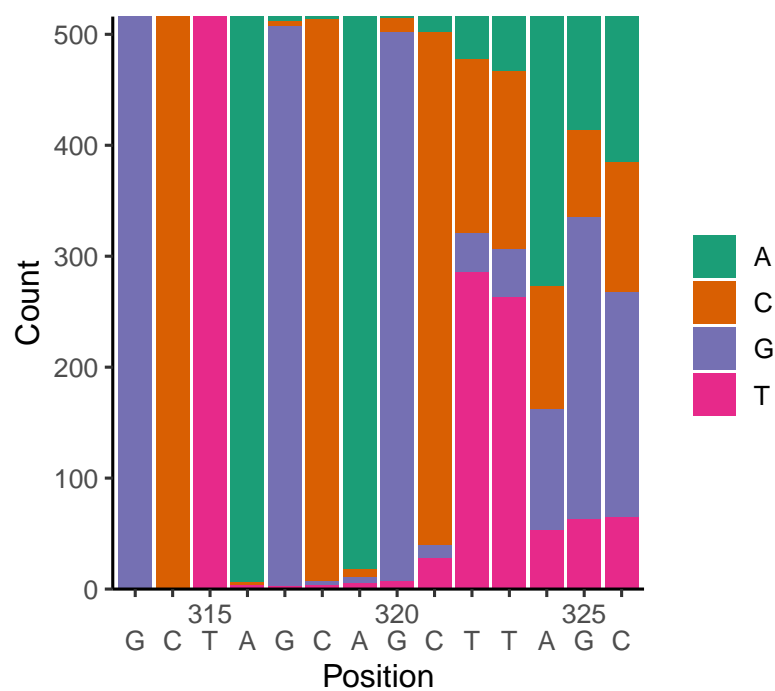
Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C



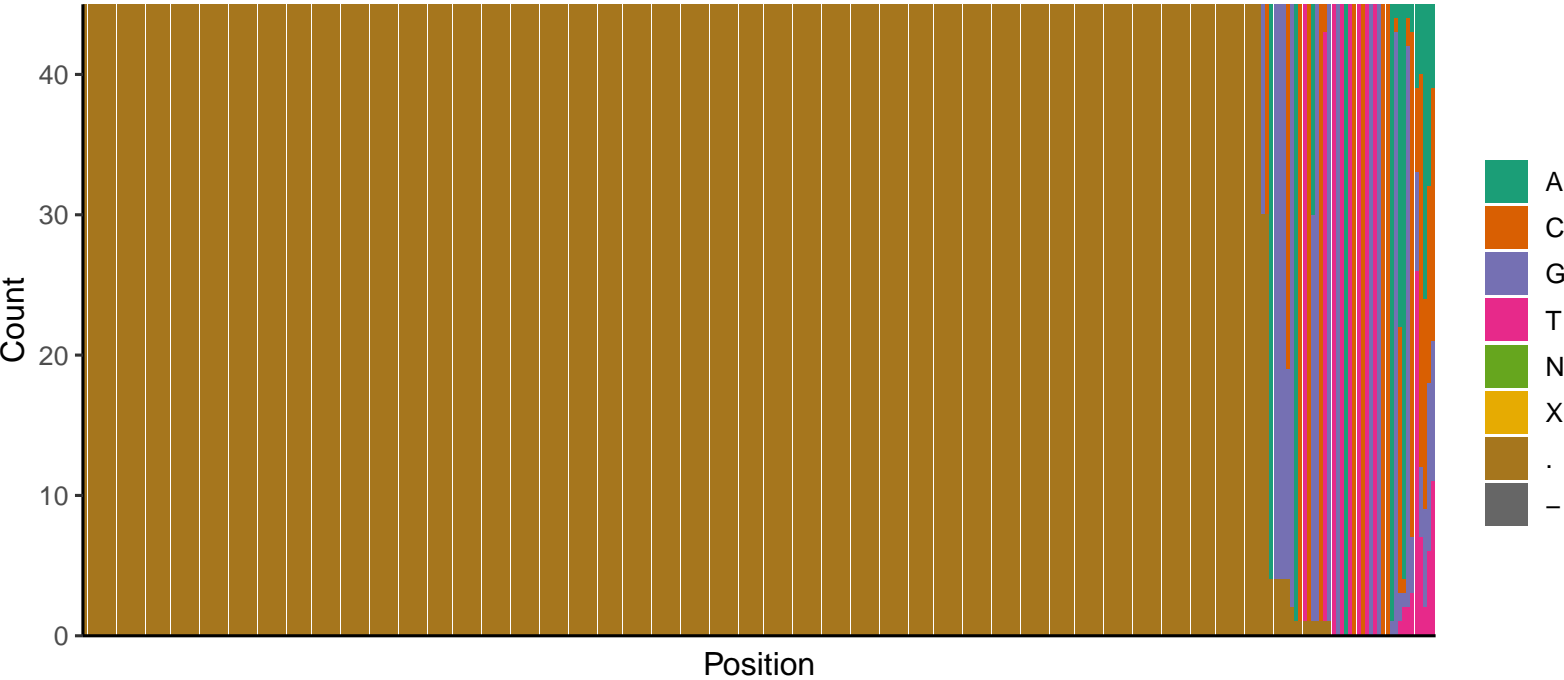
Gene TRBV7-7\*ap01\_C315T



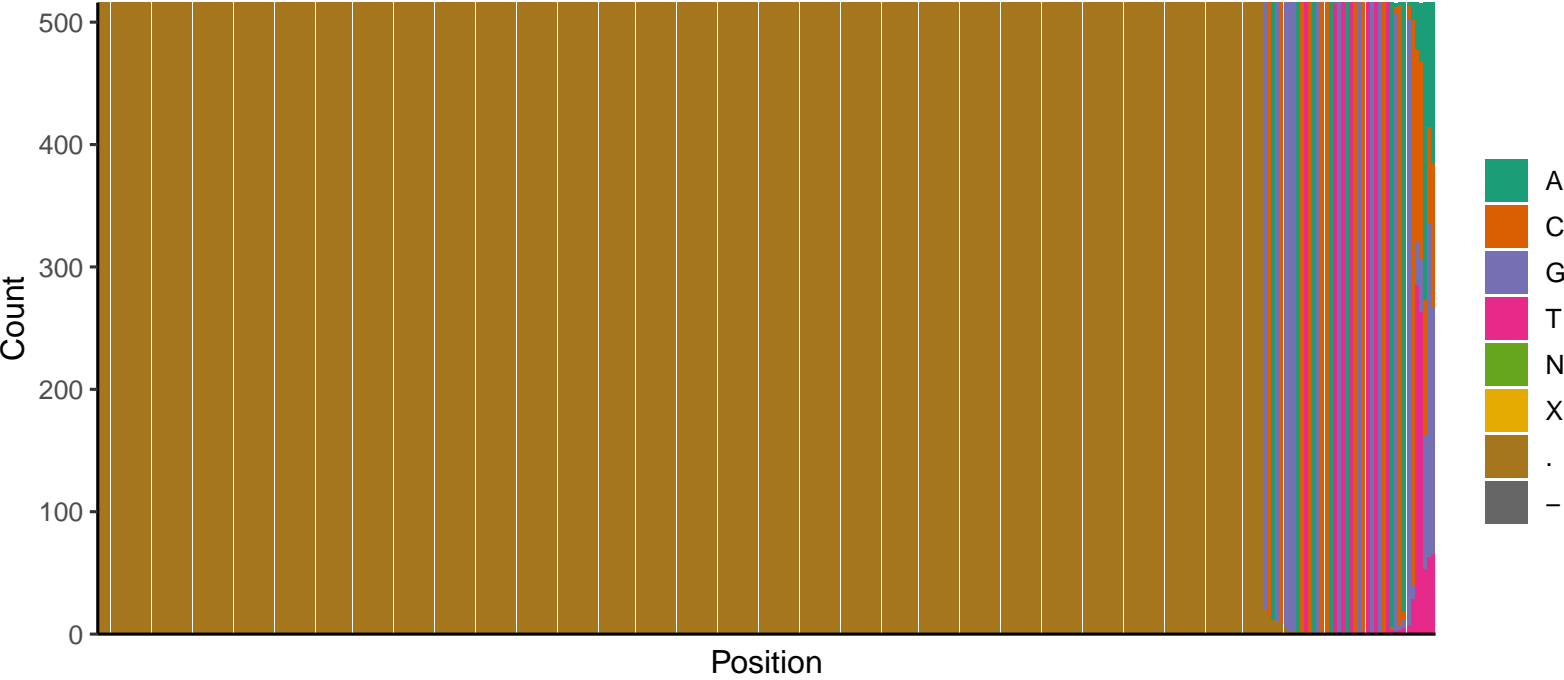
Gene TRBV7-1\*ap01\_T296C\_C314T



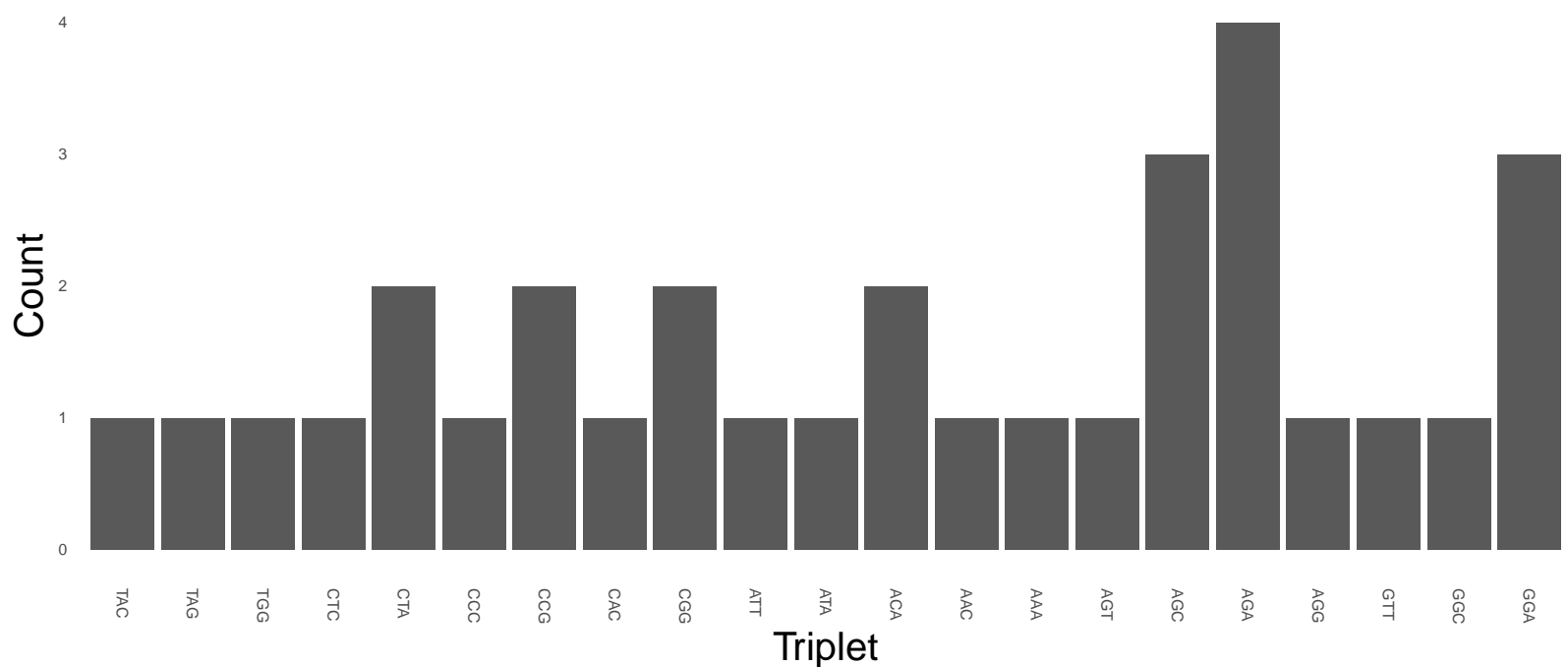
Gene TRBV7-1\*ap01\_T296C



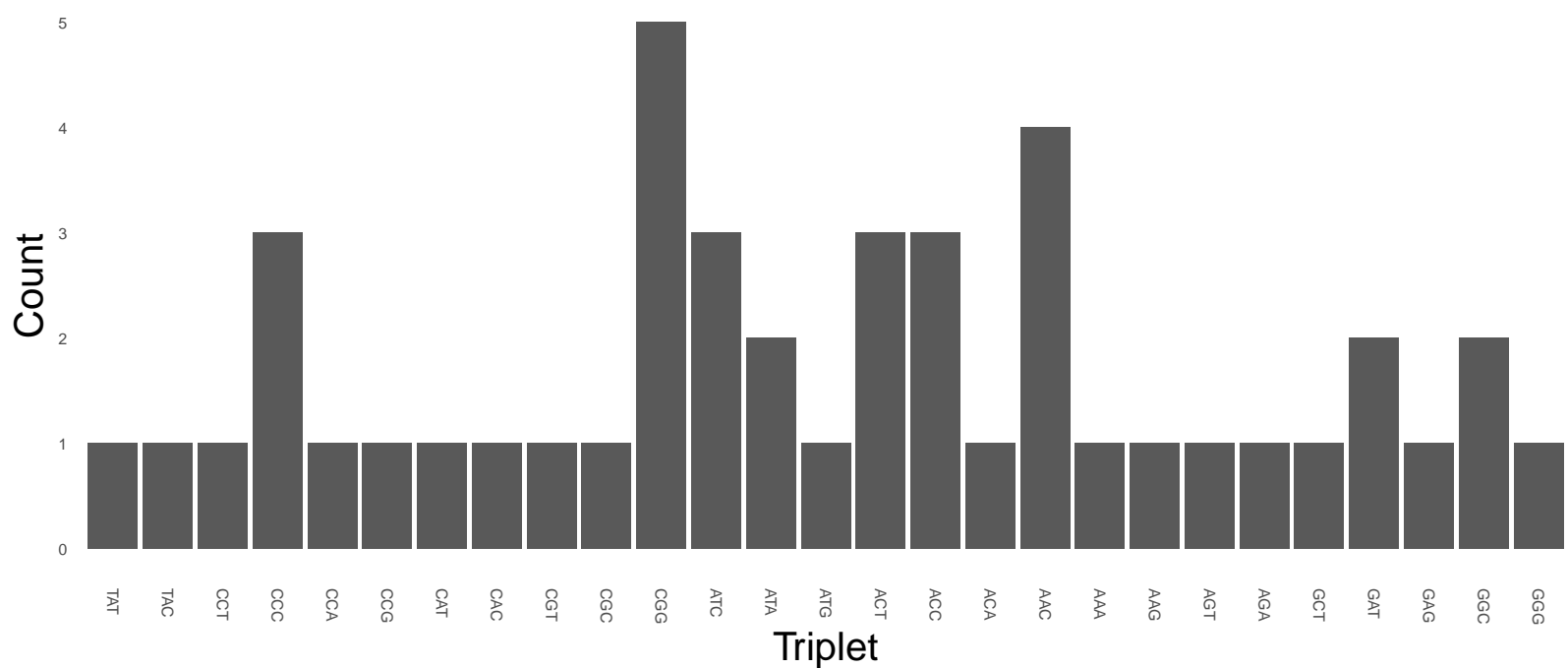
Gene TRBV7-7\*ap01\_C315T



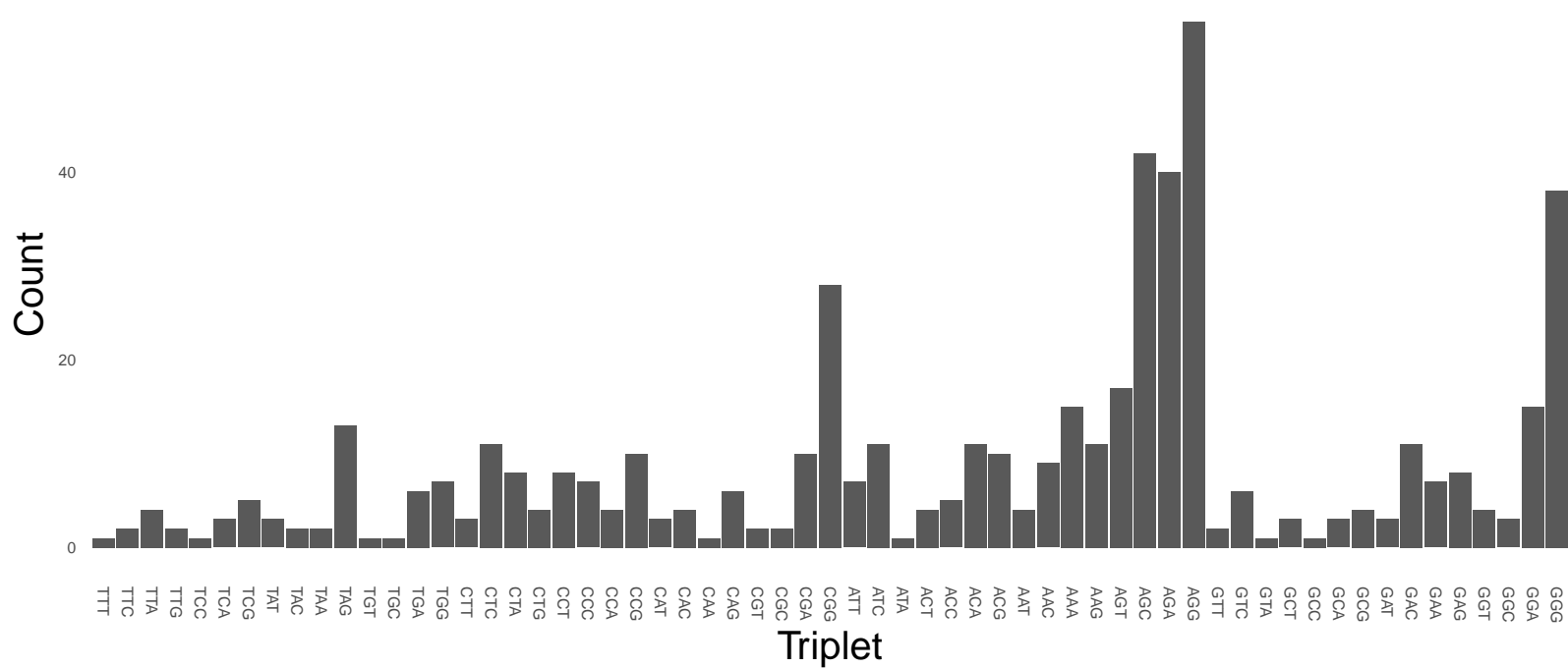
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



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

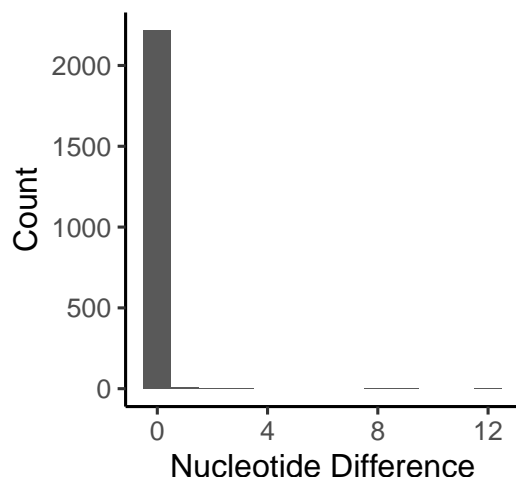


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



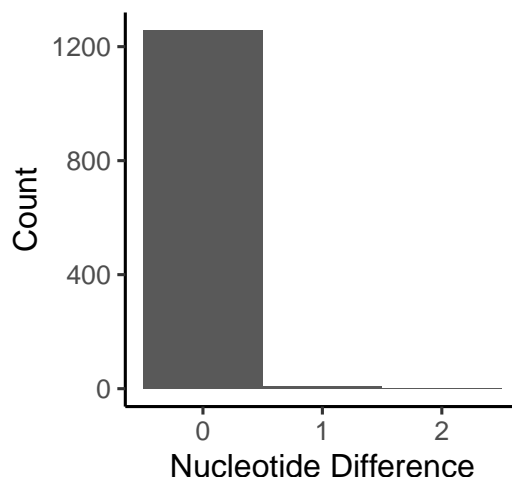
### TRBV10-1\*ap01

2230 sequences assigned  
2217 (99.4%) exact matches, in which:  
2200 unique CDR3  
13 unique J



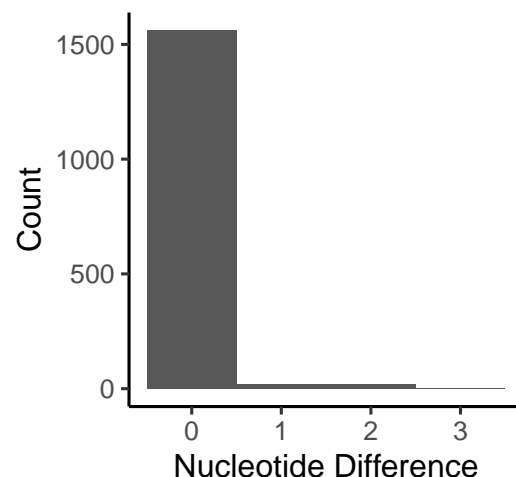
### TRBV10-2\*ap01

1267 sequences assigned  
1257 (99.2%) exact matches, in which:  
1248 unique CDR3  
13 unique J



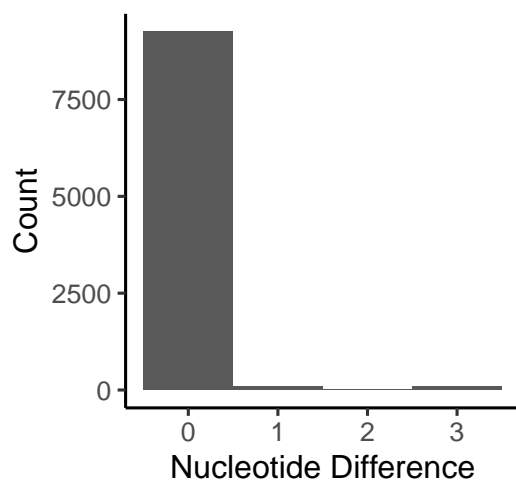
### TRBV13\*ap01

1602 sequences assigned  
1561 (97.4%) exact matches, in which:  
1532 unique CDR3  
13 unique J



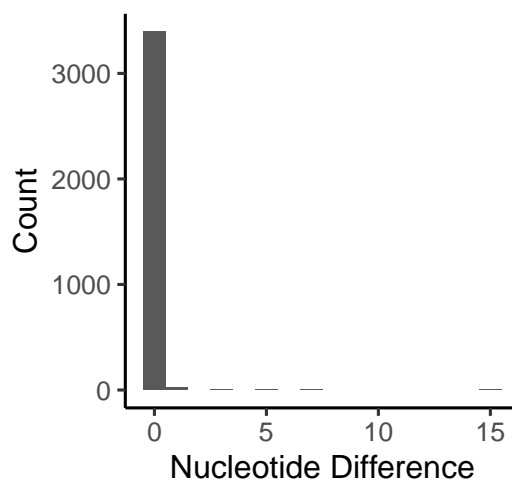
### TRBV20-1\*ap01

9443 sequences assigned  
9250 (98%) exact matches, in which:  
9084 unique CDR3  
13 unique J



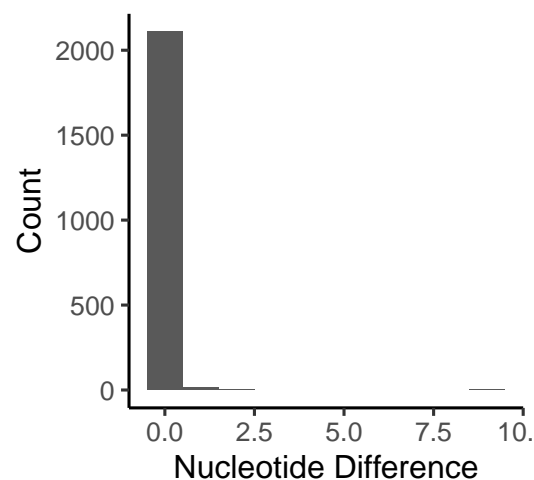
### TRBV10-3\*ap01

3425 sequences assigned  
3395 (99.1%) exact matches, in which:  
3370 unique CDR3  
13 unique J



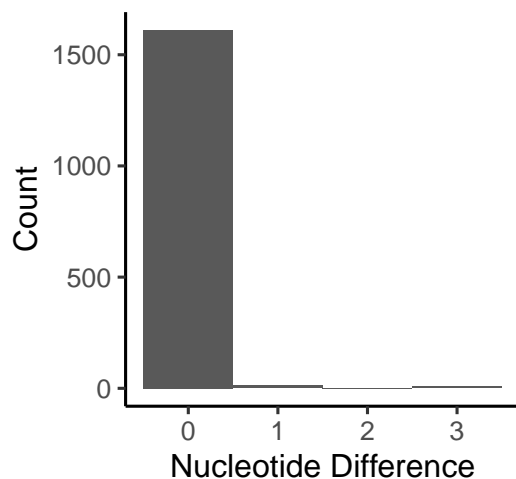
### TRBV14\*ap01

2128 sequences assigned  
2109 (99.1%) exact matches, in which:  
2093 unique CDR3  
13 unique J



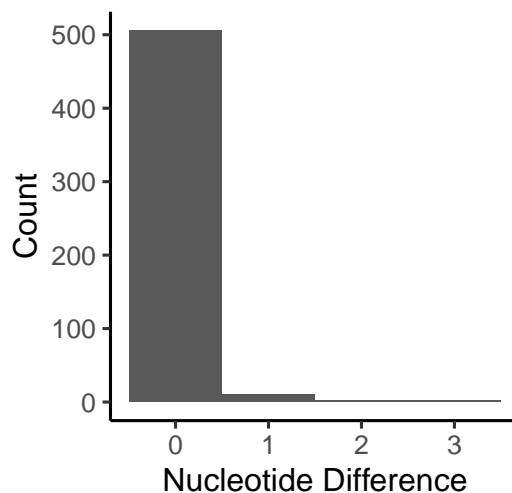
### TRBV20-1\*ap02

1632 sequences assigned  
1611 (98.7%) exact matches, in which:  
1579 unique CDR3  
13 unique J



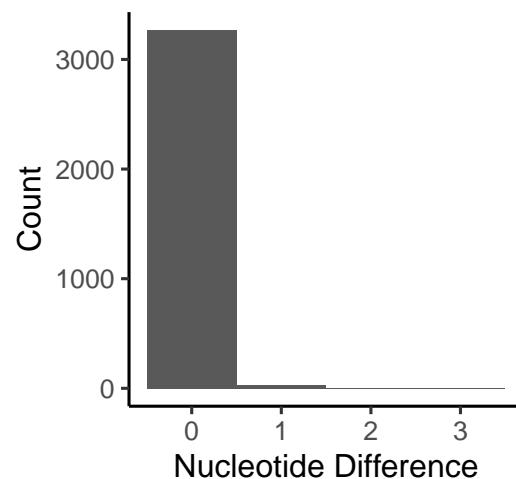
### TRBV1\*ap01

520 sequences assigned  
506 (97.3%) exact matches, in which:  
493 unique CDR3  
13 unique J



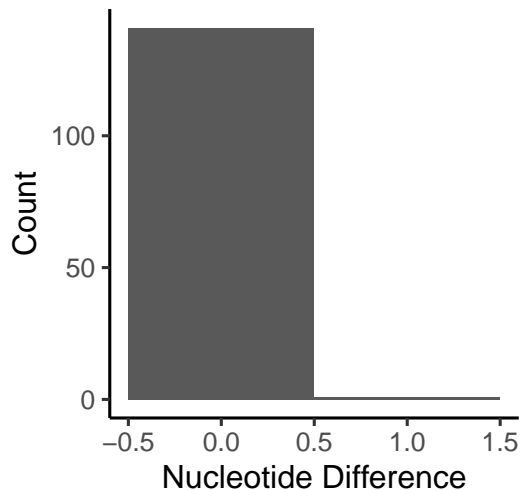
### TRBV15\*ap02

3303 sequences assigned  
3268 (98.9%) exact matches, in which:  
3238 unique CDR3  
13 unique J



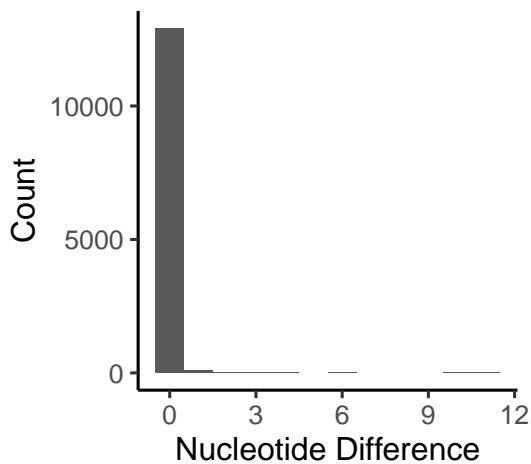
### TRBV16\*ap01

142 sequences assigned  
141 (99.3%) exact matches, in which:  
141 unique CDR3  
13 unique J



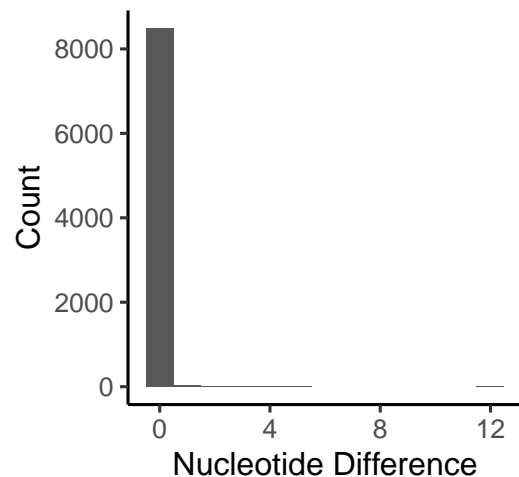
### TRBV19\*ap01

13045 sequences assigned  
12915 (99%) exact matches, in which:  
12820 unique CDR3  
13 unique J



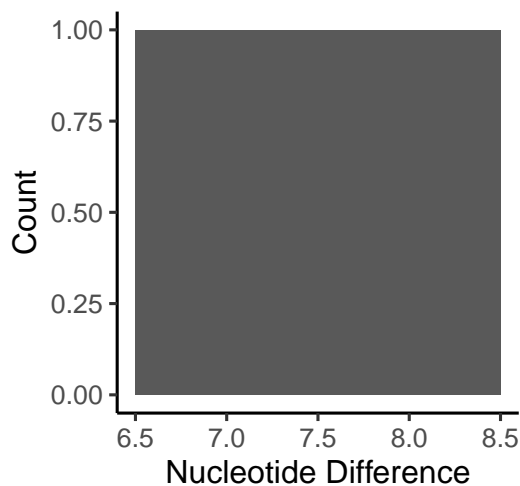
### TRBV27\*ap01

8547 sequences assigned  
8486 (99.3%) exact matches, in which:  
8426 unique CDR3  
13 unique J



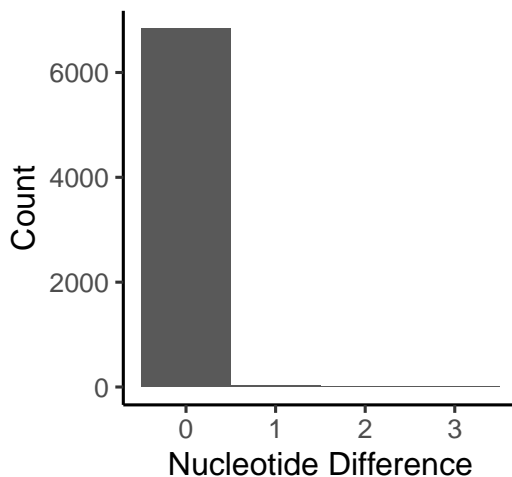
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



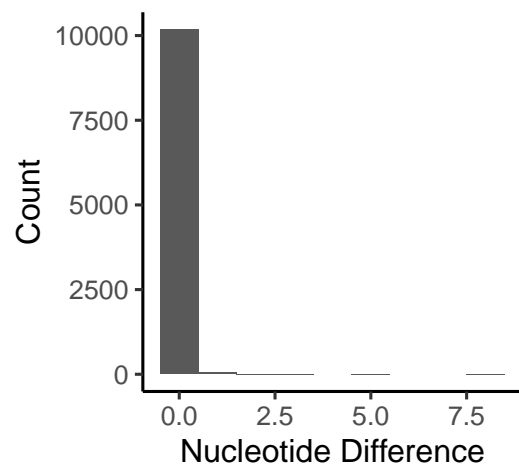
### TRBV2\*ap01

6883 sequences assigned  
6835 (99.3%) exact matches, in which:  
6789 unique CDR3  
14 unique J



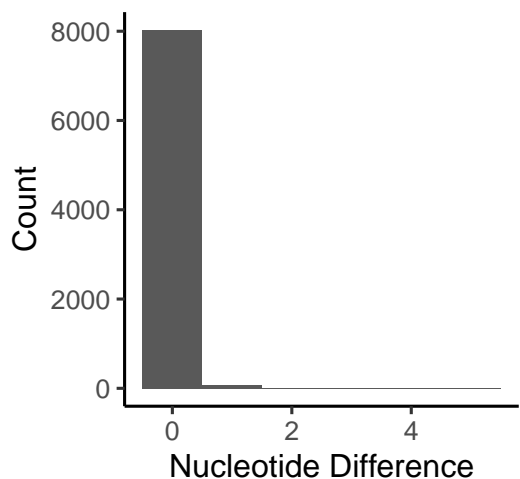
### TRBV28\*ap01

10243 sequences assigned  
10180 (99.4%) exact matches, in which:  
10077 unique CDR3  
13 unique J



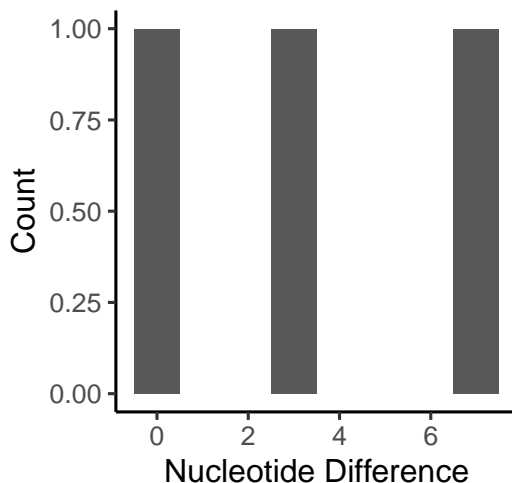
### TRBV18\*ap01

8117 sequences assigned  
8026 (98.9%) exact matches, in which:  
7855 unique CDR3  
13 unique J



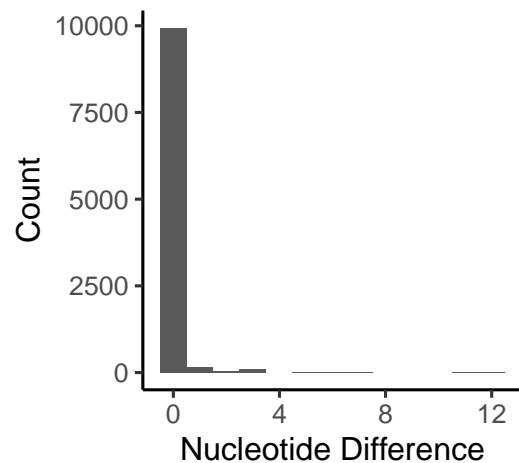
### TRBV26\*ap01

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



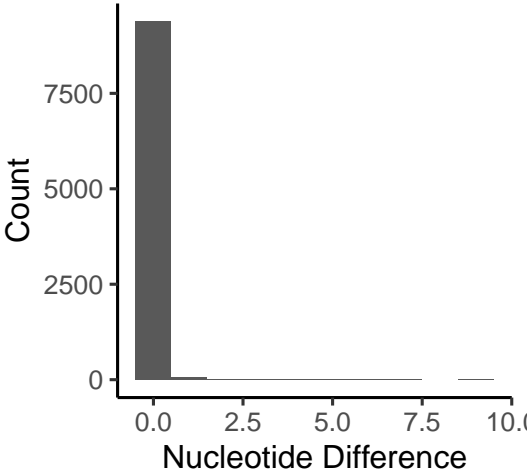
### TRBV30\*ap01

10253 sequences assigned  
9941 (97%) exact matches, in which:  
9732 unique CDR3  
13 unique J



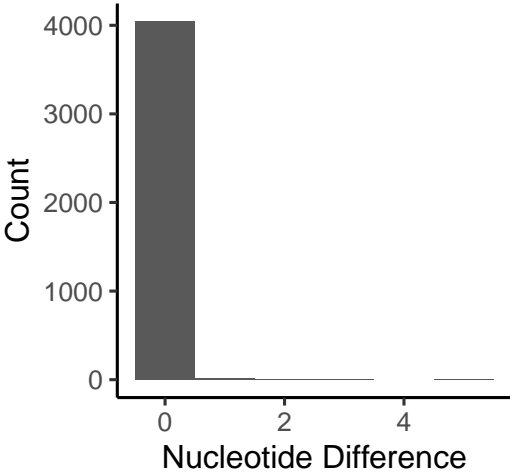
TRBV9\*ap01

9471 sequences assigned  
9385 (99.1%) exact matches, in which:  
9276 unique CDR3  
13 unique J



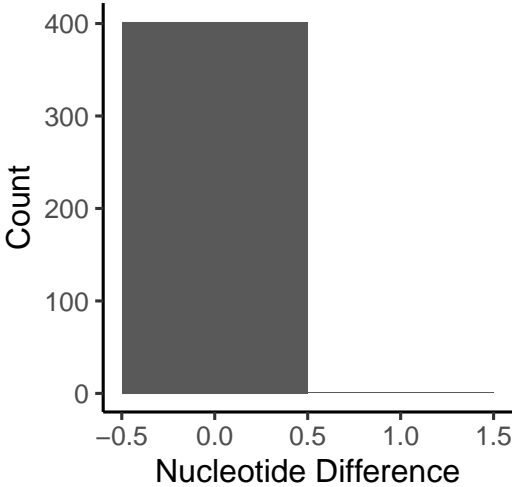
TRBV11-2\*ap01

4069 sequences assigned  
4044 (99.4%) exact matches, in which:  
4018 unique CDR3  
13 unique J



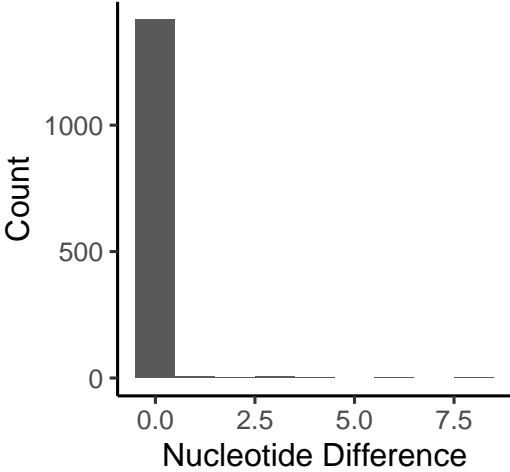
TRBV12-2\*ap01

403 sequences assigned  
402 (99.8%) exact matches, in which:  
398 unique CDR3  
13 unique J



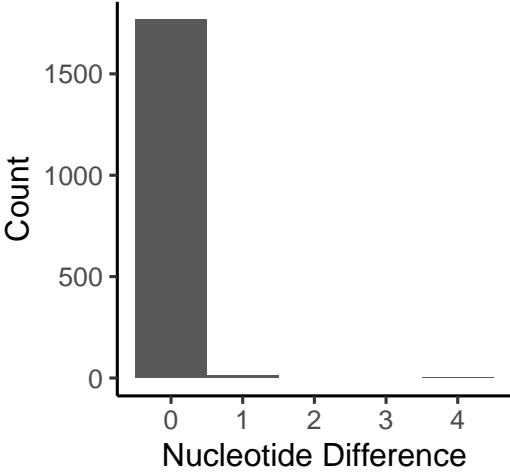
TRBV21-1\*ap01

1432 sequences assigned  
1417 (99%) exact matches, in which:  
1415 unique CDR3  
13 unique J



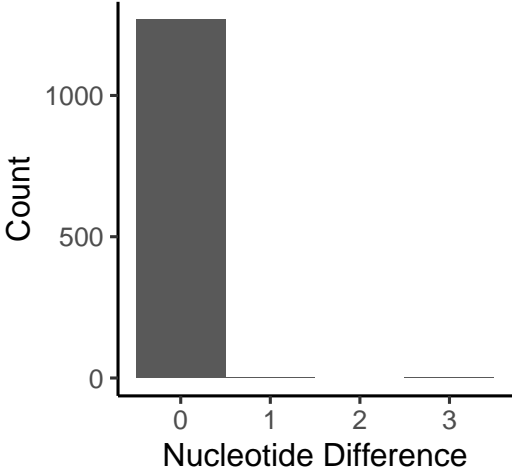
TRBV11-3\*ap01

1780 sequences assigned  
1767 (99.3%) exact matches, in which:  
1755 unique CDR3  
13 unique J



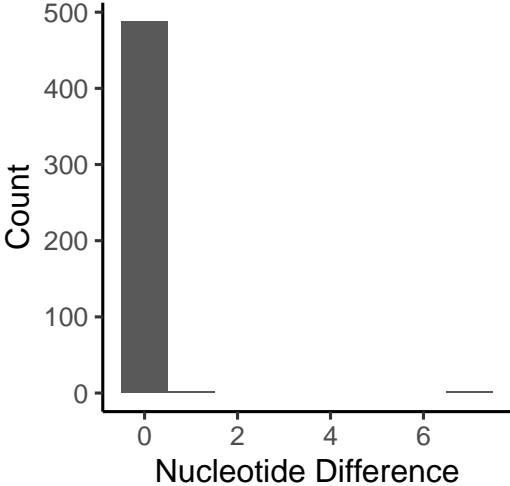
TRBV12-5\*ap01

1274 sequences assigned  
1268 (99.5%) exact matches, in which:  
1254 unique CDR3  
13 unique J



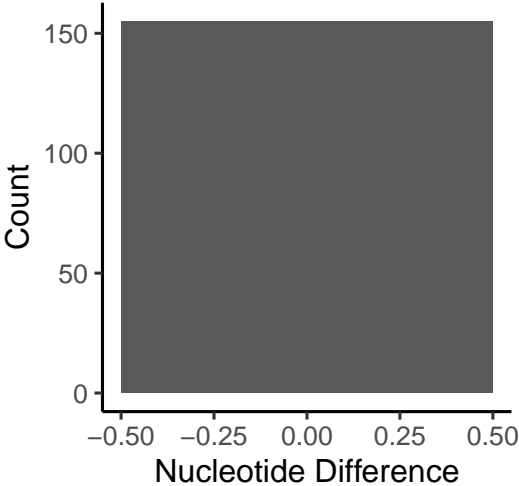
TRBV11-1\*ap01

492 sequences assigned  
488 (99.2%) exact matches, in which:  
480 unique CDR3  
13 unique J



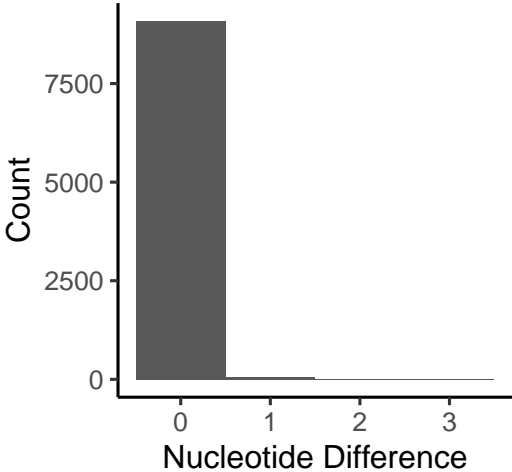
TRBV12-1\*ap01

155 sequences assigned  
155 (100%) exact matches, in which:  
153 unique CDR3  
13 unique J



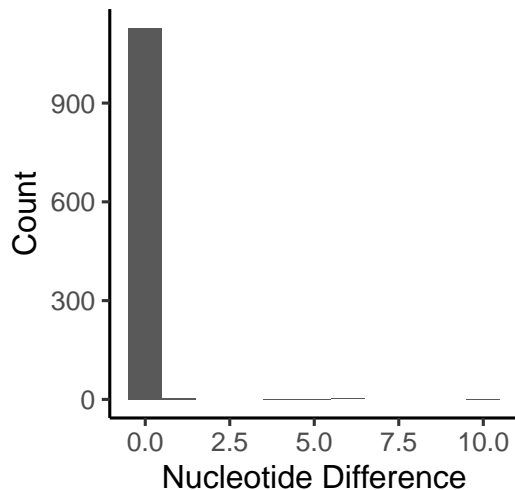
TRBV12-34\*ap01

9150 sequences assigned  
9085 (99.3%) exact matches, in which:  
9008 unique CDR3  
13 unique J



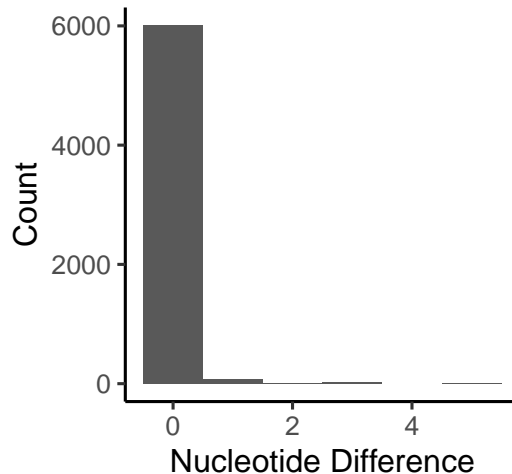
### TRBV23-1\*ap01

1142 sequences assigned  
1129 (98.9%) exact matches, in which:  
1120 unique CDR3  
13 unique J



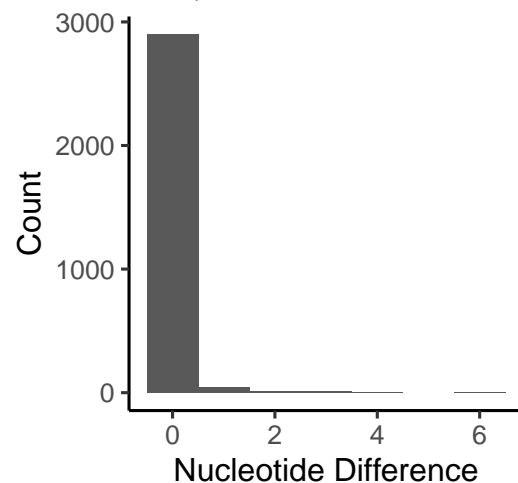
### TRBV4-1\*ap01

6114 sequences assigned  
6008 (98.3%) exact matches, in which:  
5900 unique CDR3  
13 unique J



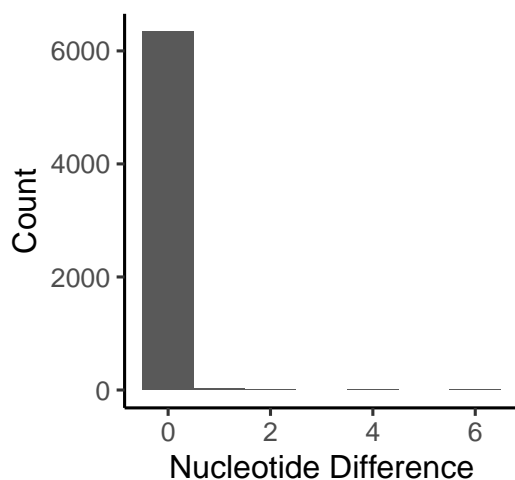
### TRBV25-1\*ap01

2967 sequences assigned  
2899 (97.7%) exact matches, in which:  
2852 unique CDR3  
13 unique J



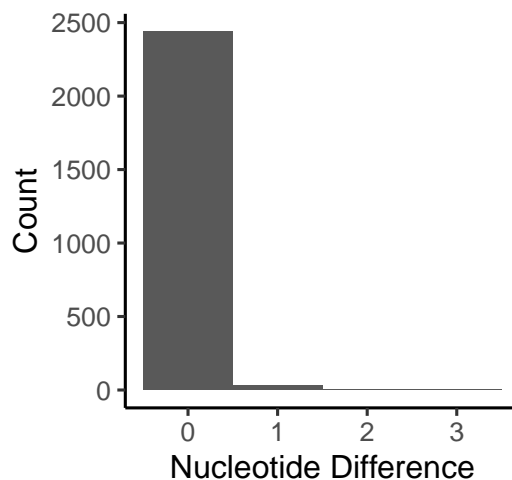
### TRBV3-12\*ap01

6376 sequences assigned  
6339 (99.4%) exact matches, in which:  
6296 unique CDR3  
13 unique J



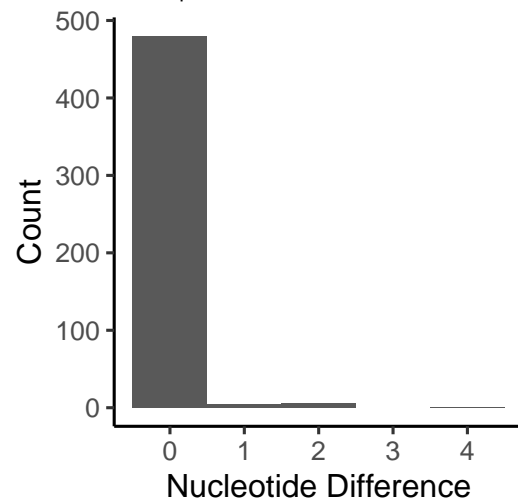
### TRBV4-2\*ap01

2475 sequences assigned  
2438 (98.5%) exact matches, in which:  
2384 unique CDR3  
13 unique J



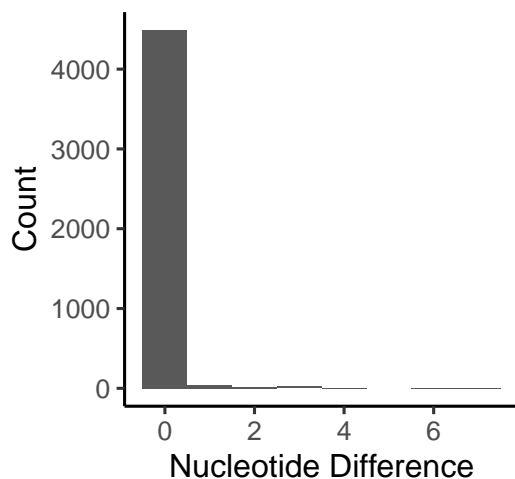
### TRBV5-3\*ap01

491 sequences assigned  
480 (97.8%) exact matches, in which:  
475 unique CDR3  
13 unique J



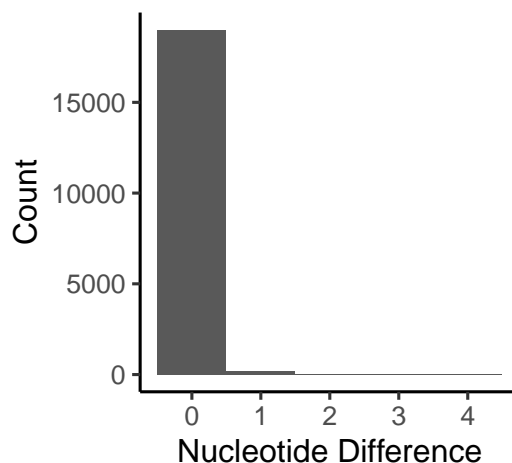
### TRBV24-1\*ap01

4576 sequences assigned  
4490 (98.1%) exact matches, in which:  
4432 unique CDR3  
13 unique J



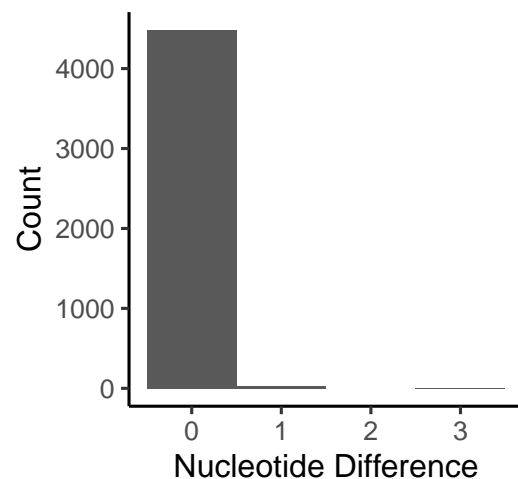
### TRBV5-1\*ap01

19217 sequences assigned  
18998 (98.9%) exact matches, in which:  
18714 unique CDR3  
13 unique J



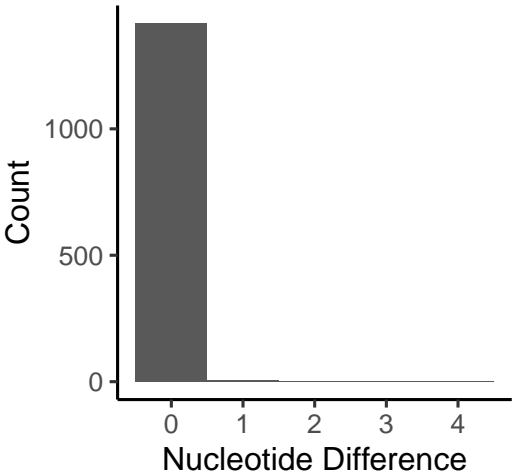
### TRBV5-4\*ap01

4512 sequences assigned  
4482 (99.3%) exact matches, in which:  
4440 unique CDR3  
13 unique J



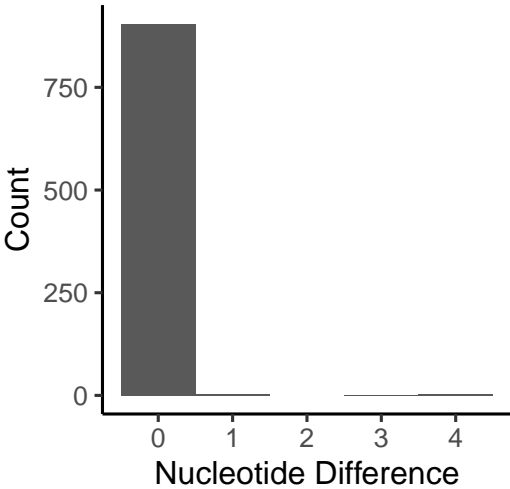
TRBV5-5\*ap01

1428 sequences assigned  
1417 (99.2%) exact matches, in which:  
1412 unique CDR3  
13 unique J



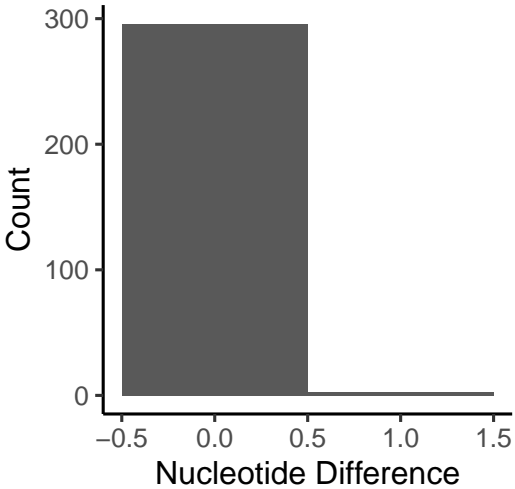
TRBV5-8\*ap01

913 sequences assigned  
905 (99.1%) exact matches, in which:  
901 unique CDR3  
13 unique J



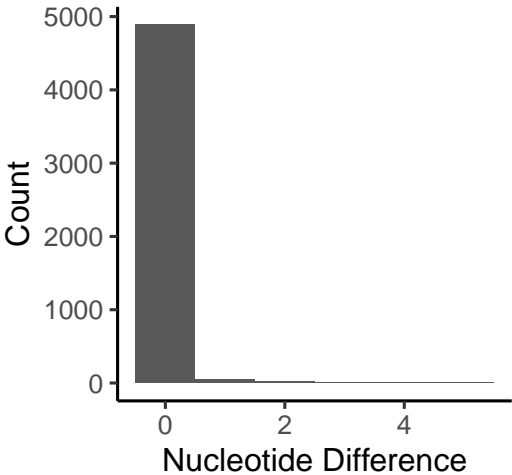
TRBV6-7\*ap01

299 sequences assigned  
296 (99%) exact matches, in which:  
289 unique CDR3  
13 unique J



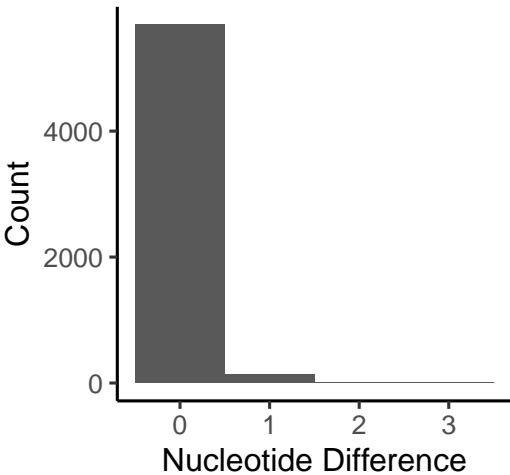
TRBV5-6\*ap01

4966 sequences assigned  
4889 (98.4%) exact matches, in which:  
4803 unique CDR3  
13 unique J



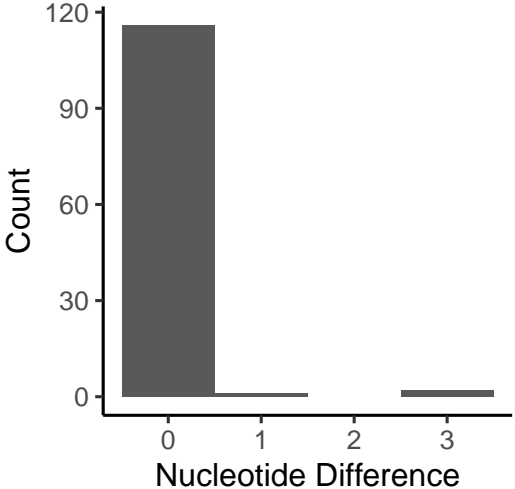
TRBV6-1\*ap01

5845 sequences assigned  
5689 (97.3%) exact matches, in which:  
5588 unique CDR3  
13 unique J



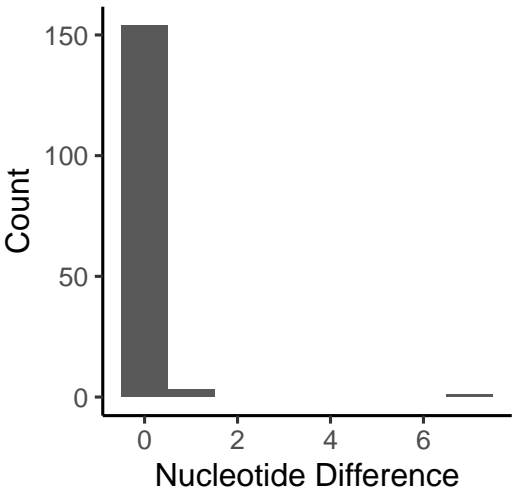
TRBV6-8\*ap01

119 sequences assigned  
116 (97.5%) exact matches, in which:  
112 unique CDR3  
13 unique J



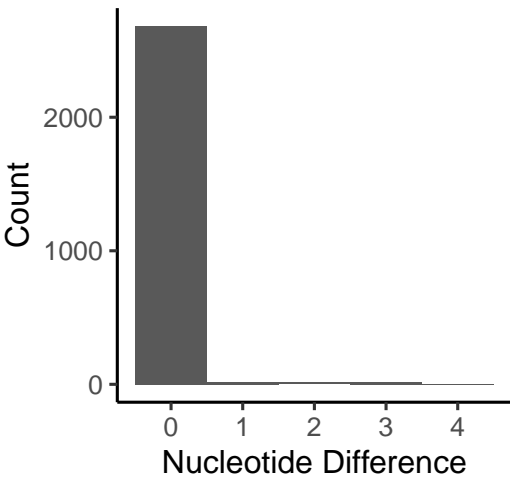
TRBV5-7\*ap01

158 sequences assigned  
154 (97.5%) exact matches, in which:  
150 unique CDR3  
13 unique J



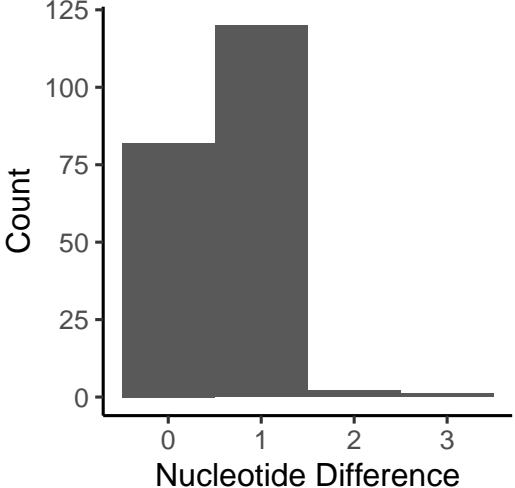
TRBV6-4\*ap01

2733 sequences assigned  
2683 (98.2%) exact matches, in which:  
2668 unique CDR3  
13 unique J



TRBV6-9\*ap01

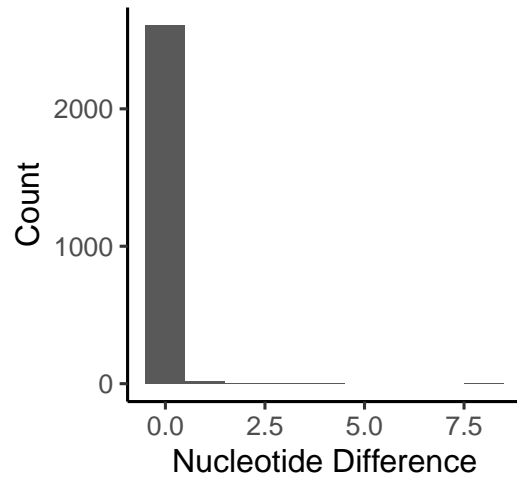
205 sequences assigned  
82 (40%) exact matches, in which:  
80 unique CDR3  
13 unique J





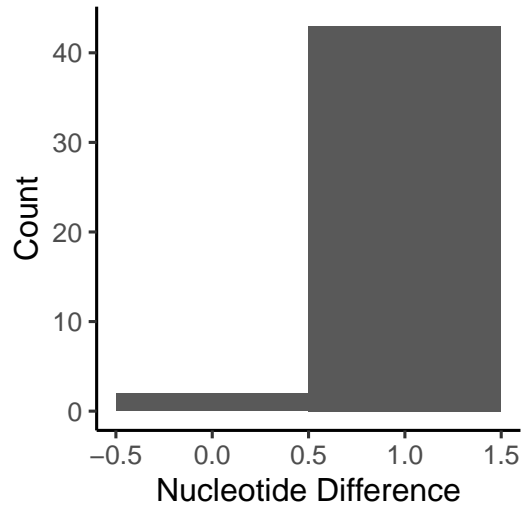
### TRBV6-23\*ap01

2629 sequences assigned  
2607 (99.2%) exact matches, in which:  
2580 unique CDR3  
13 unique J



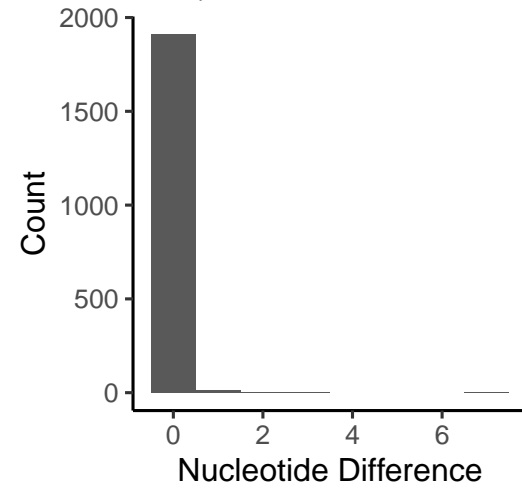
### TRBV7-1\*ap01\_T296C

45 sequences assigned  
2 (4.4%) exact matches, in which:  
2 unique CDR3  
1 unique J



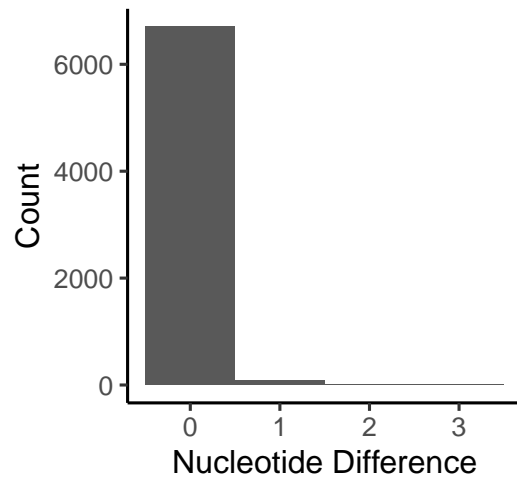
### TRBV7-3\*ap01

1924 sequences assigned  
1910 (99.3%) exact matches, in which:  
1895 unique CDR3  
13 unique J



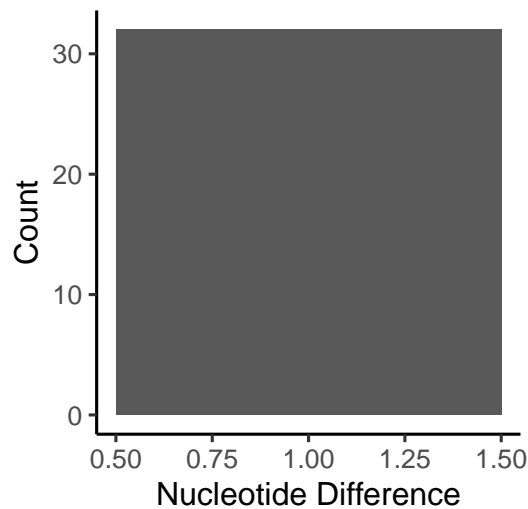
### TRBV6-56\*ap01

6794 sequences assigned  
6703 (98.7%) exact matches, in which:  
6564 unique CDR3  
13 unique J



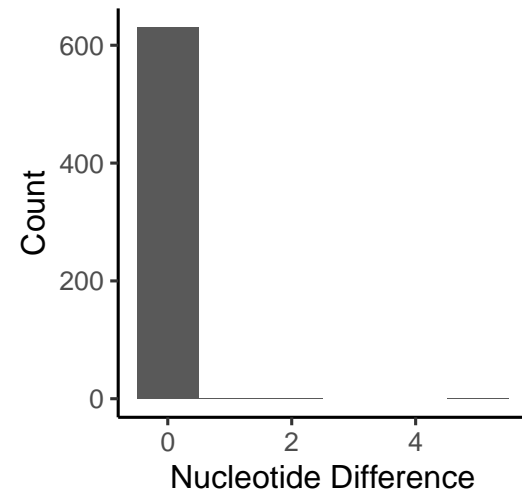
### TRBV7-1\*ap01\_T296C\_C

32 sequences assigned  
No exact matches.



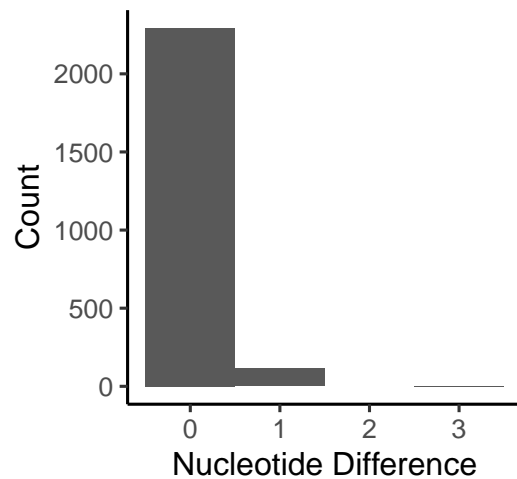
### TRBV7-3\*ap03

634 sequences assigned  
631 (99.5%) exact matches, in which:  
626 unique CDR3  
13 unique J



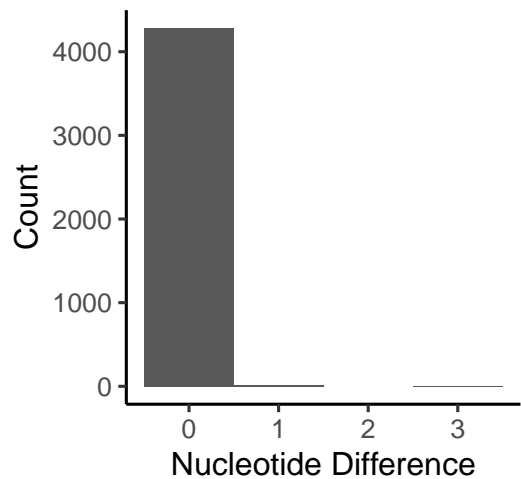
### TRBV6-56\*ap02

2410 sequences assigned  
2293 (95.1%) exact matches, in which:  
2242 unique CDR3  
13 unique J



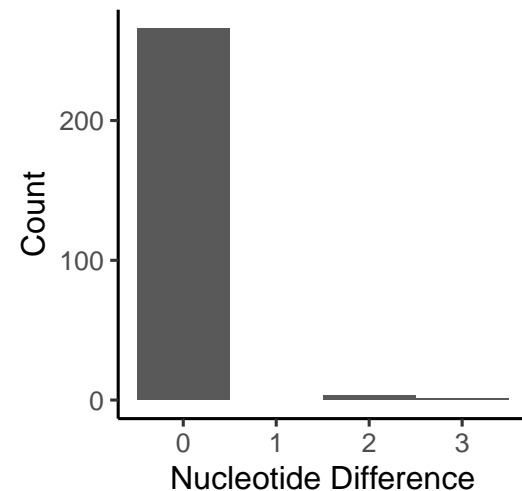
### TRBV7-2\*ap01

4300 sequences assigned  
4283 (99.6%) exact matches, in which:  
4246 unique CDR3  
13 unique J



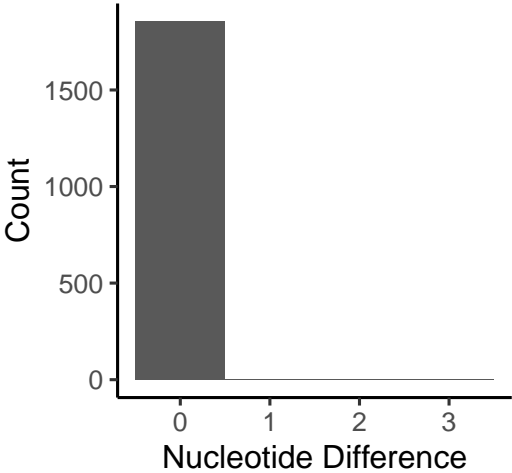
### TRBV7-4\*ap01

270 sequences assigned  
266 (98.5%) exact matches, in which:  
263 unique CDR3  
13 unique J



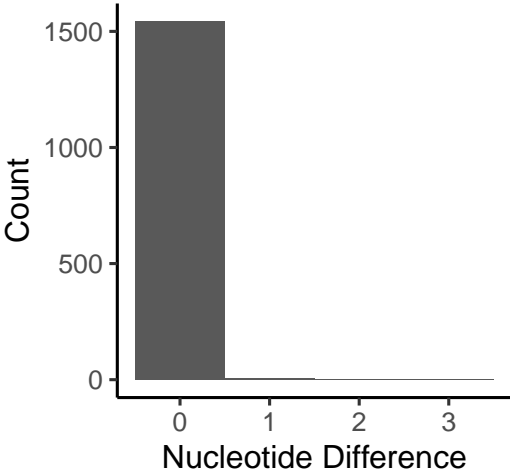
TRBV7-6\*ap01

1864 sequences assigned  
1855 (99.5%) exact matches, in which:  
1833 unique CDR3  
13 unique J



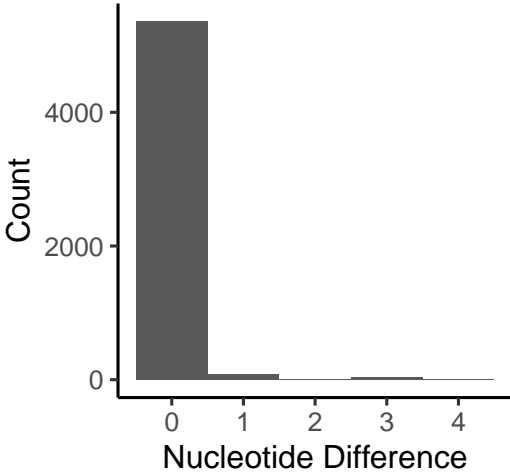
TRBV7-8\*ap01

1552 sequences assigned  
1543 (99.4%) exact matches, in which:  
1534 unique CDR3  
13 unique J



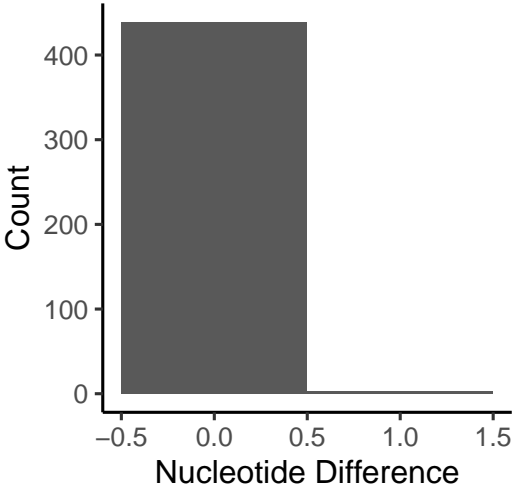
TRBV29-1\*ap01

5489 sequences assigned  
5360 (97.6%) exact matches, in which:  
5208 unique CDR3  
13 unique J



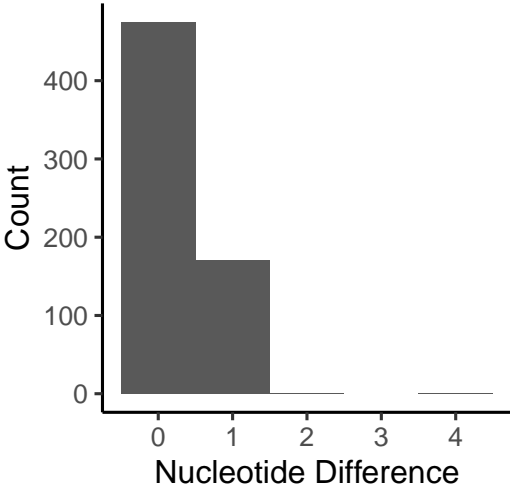
TRBV7-7\*ap01

442 sequences assigned  
439 (99.3%) exact matches, in which:  
437 unique CDR3  
13 unique J



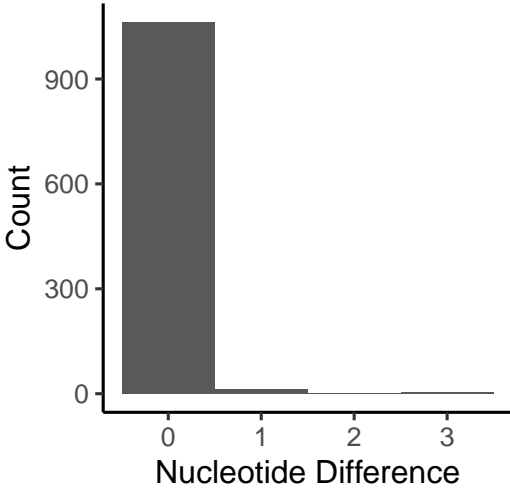
TRBV7-8\*ap03

648 sequences assigned  
475 (73.3%) exact matches, in which:  
470 unique CDR3  
13 unique J



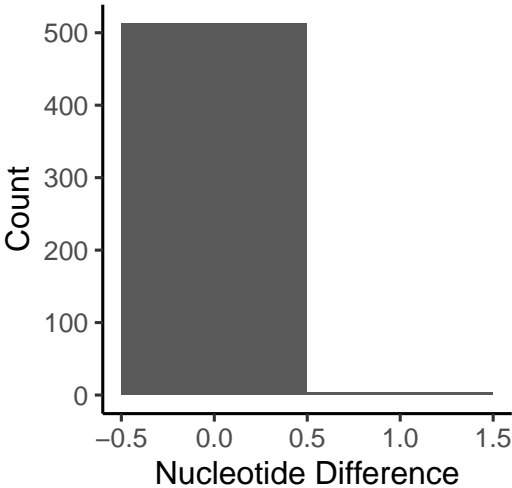
TRBV29-1\*ap02

1079 sequences assigned  
1063 (98.5%) exact matches, in which:  
1036 unique CDR3  
13 unique J



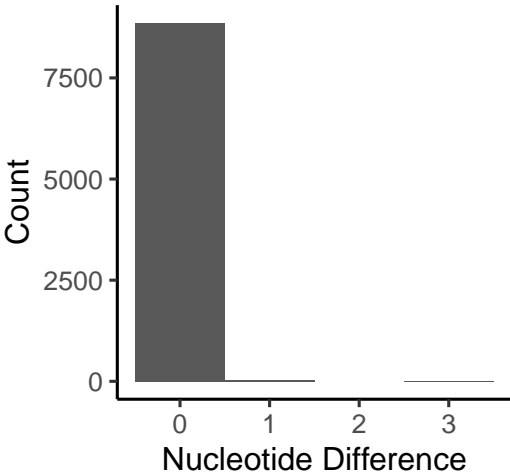
TRBV7-7\*ap01\_C315T

516 sequences assigned  
513 (99.4%) exact matches, in which:  
507 unique CDR3  
13 unique J

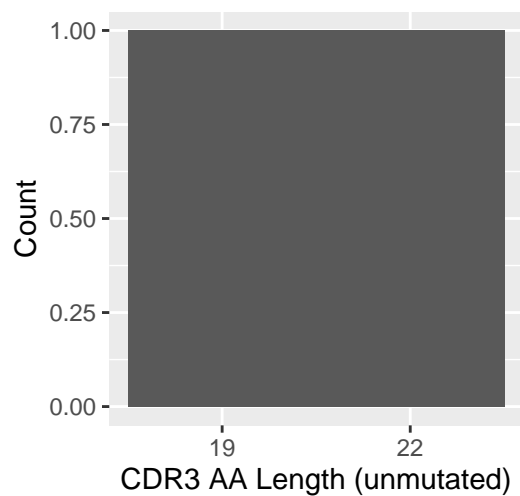


TRBV7-9\*ap01

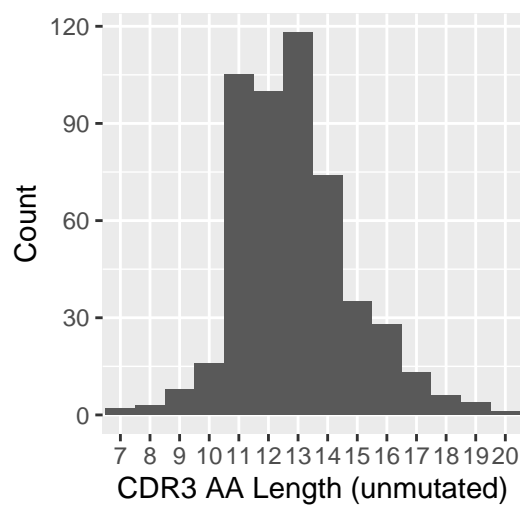
8897 sequences assigned  
8856 (99.5%) exact matches, in which:  
8762 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]