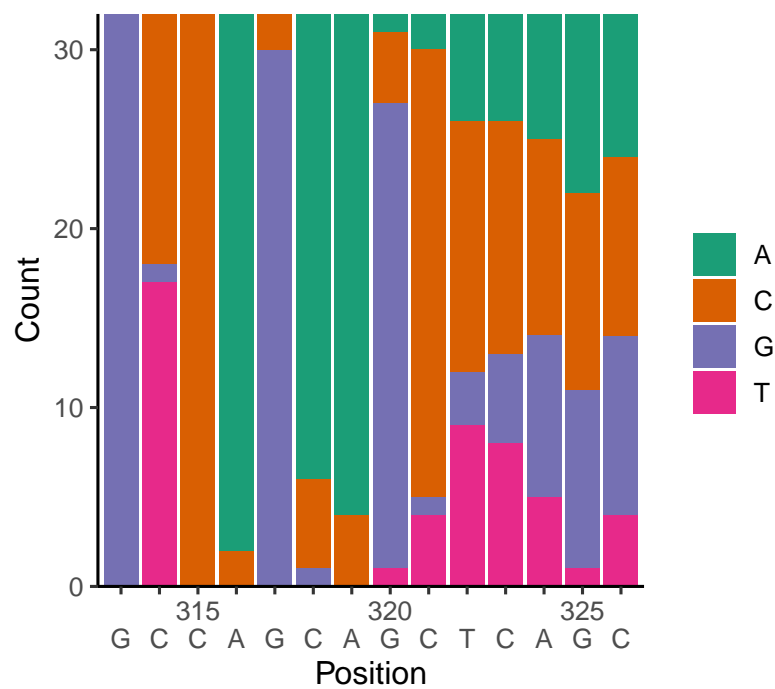
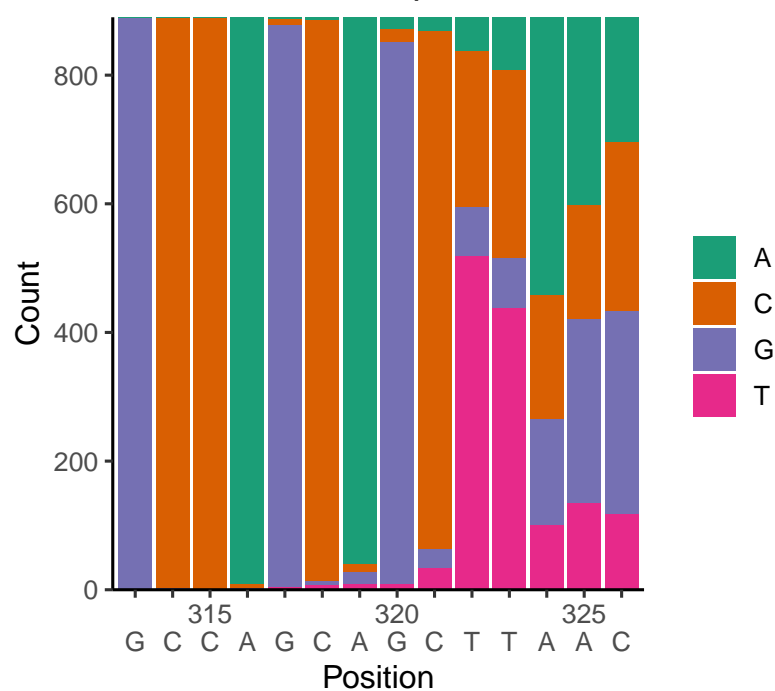


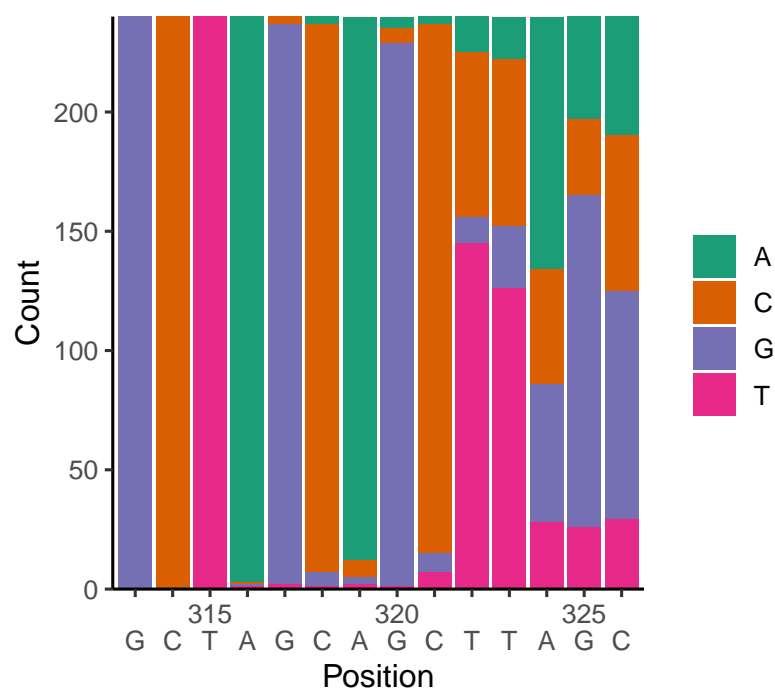
Gene TRBV7-1\*ap01\_T296C



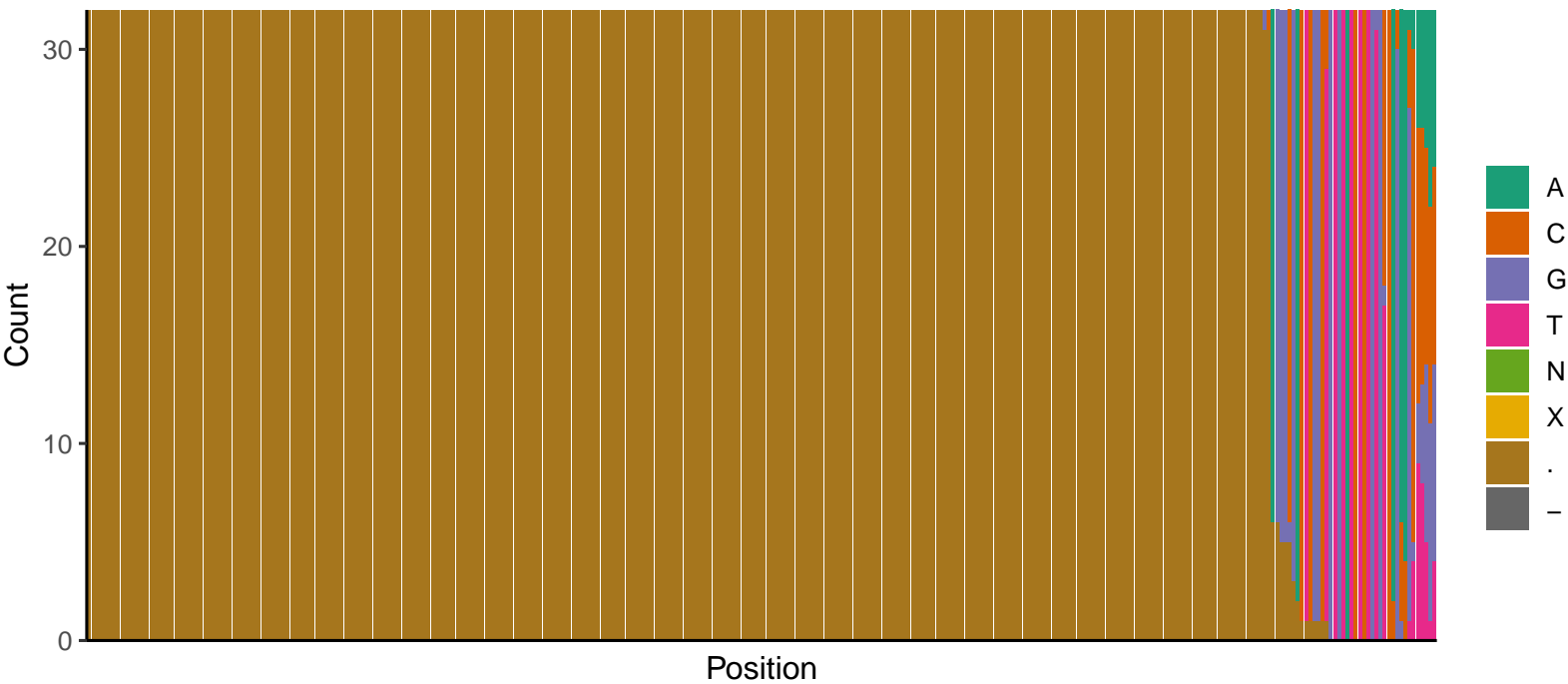
Gene TRBV7-3\*ap01\_G301A



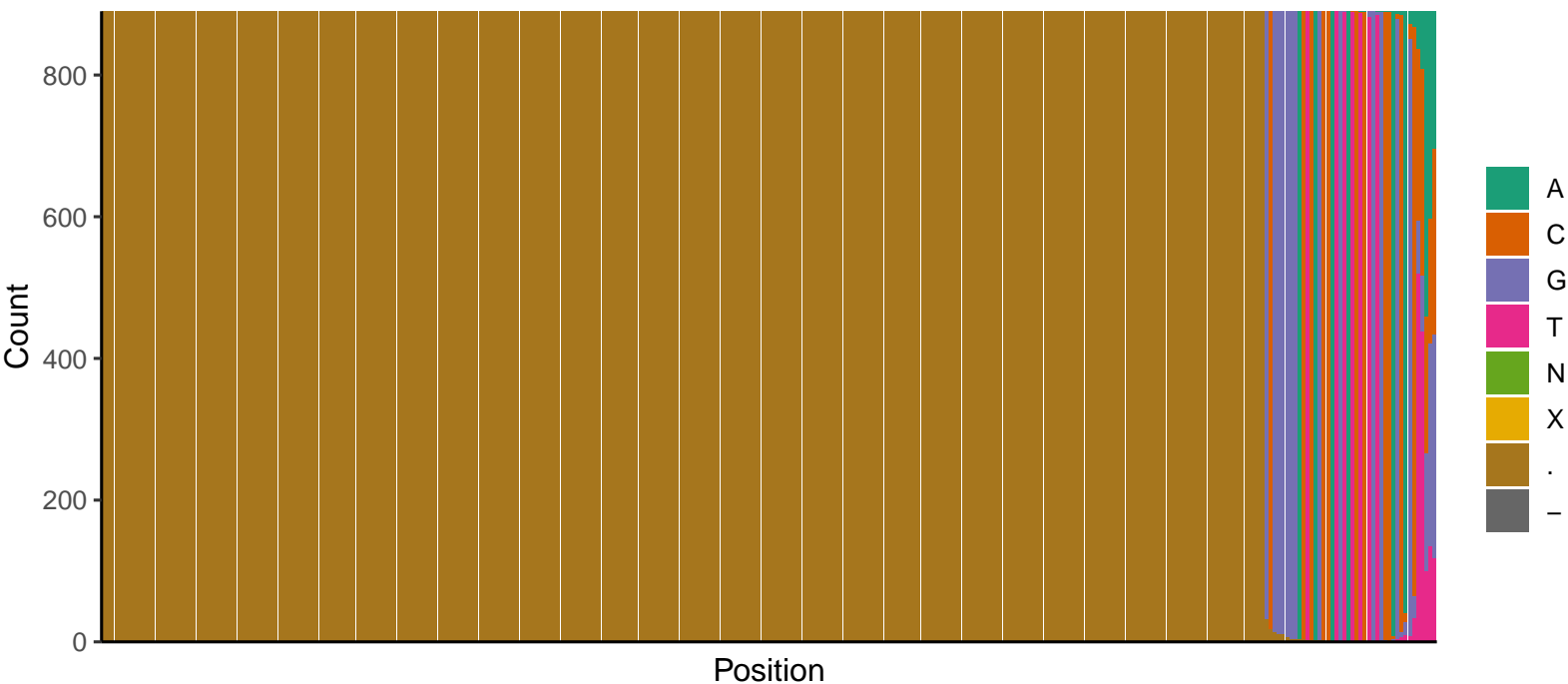
Gene TRBV7-7\*ap01\_C315T



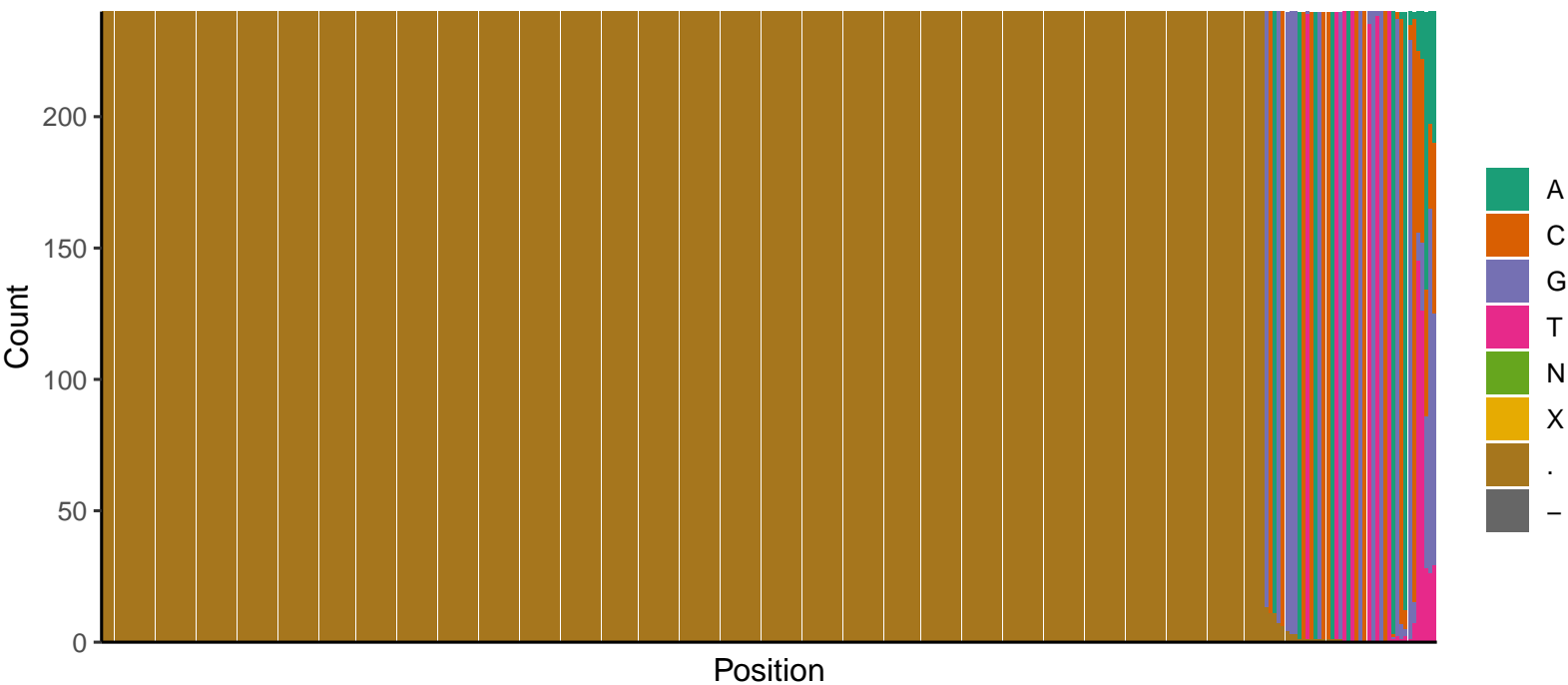
Gene TRBV7-1\*ap01\_T296C



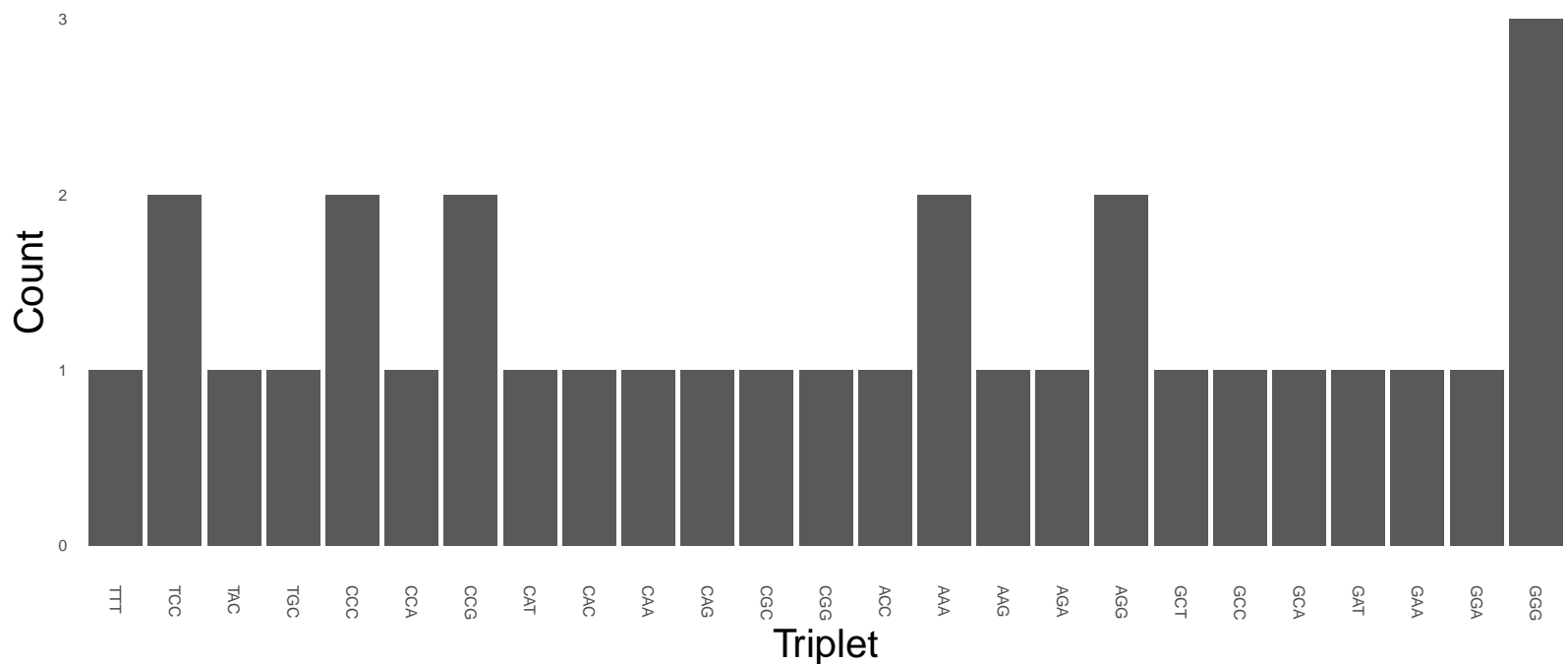
Gene TRBV7-3\*ap01\_G301A



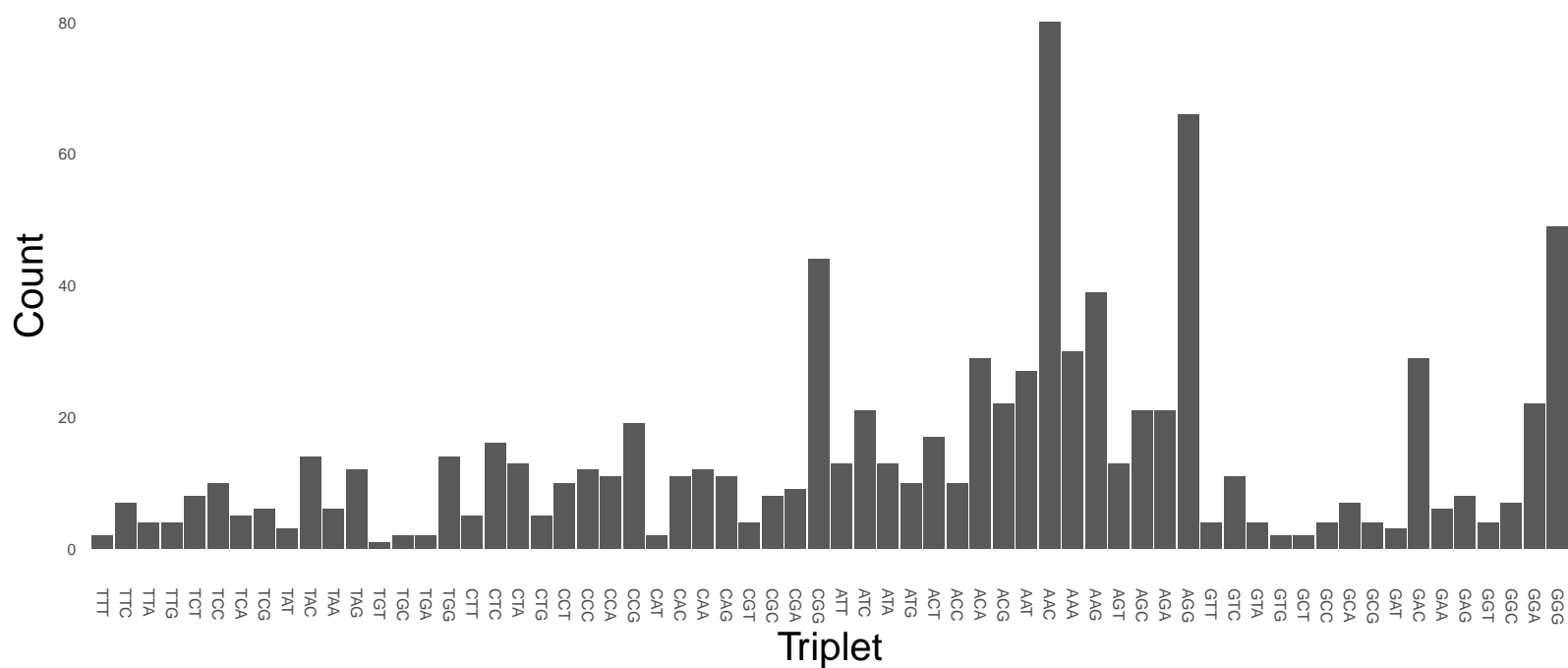
Gene TRBV7-7\*ap01\_C315T



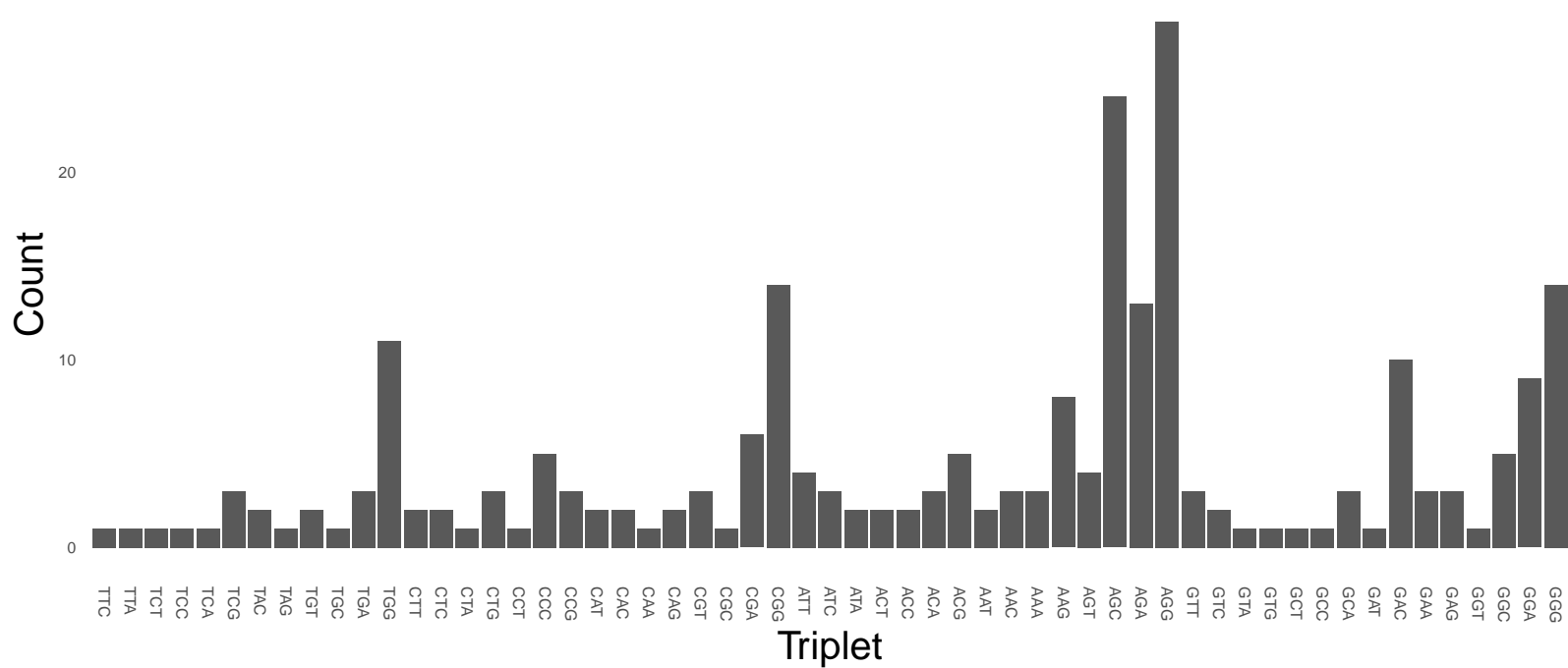
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



TRBV7-3\*ap01\_G301A- Final 3 nucleotides as a triplet

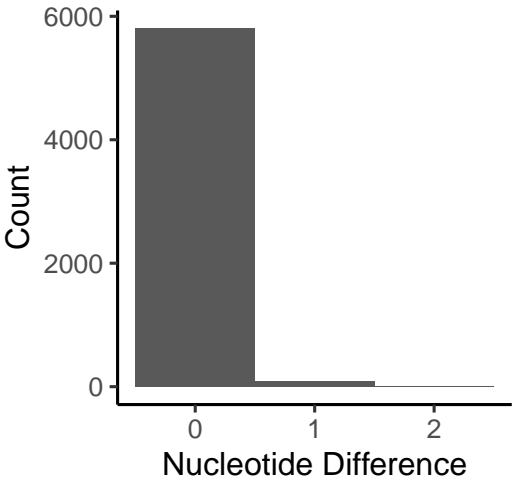


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



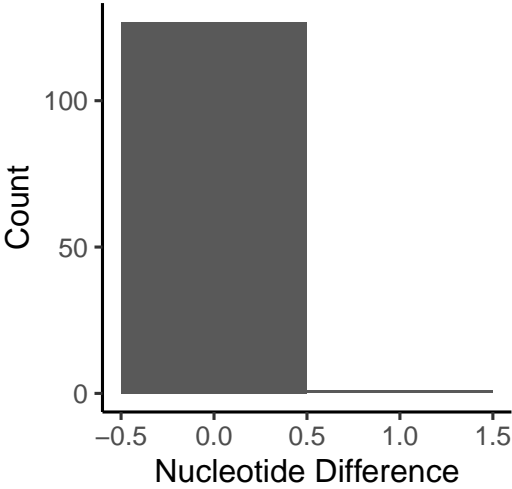
TRBV20-1\*ap01

5903 sequences assigned  
5804 (98.3%) exact matches, in which:  
5644 unique CDR3  
13 unique J



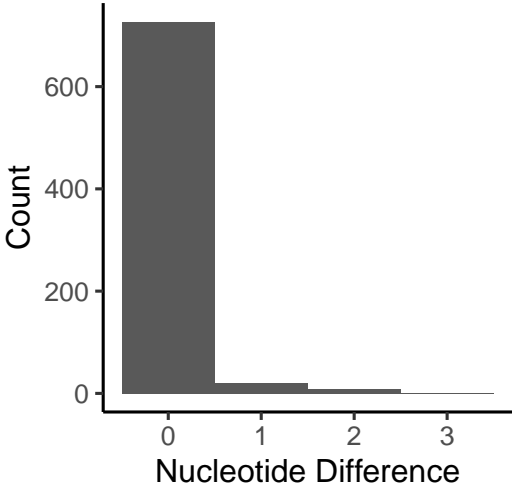
TRBV10-2\*ap01

128 sequences assigned  
127 (99.2%) exact matches, in which:  
127 unique CDR3  
12 unique J



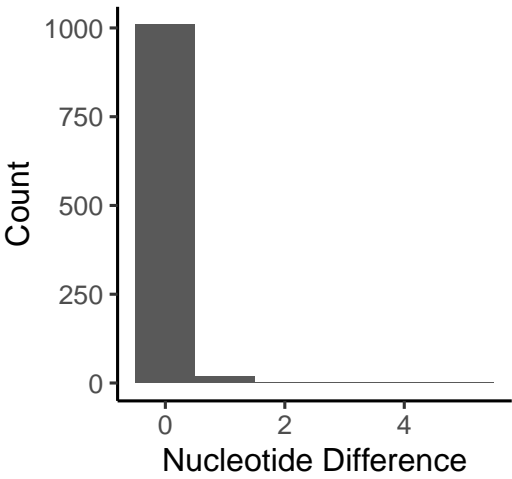
TRBV13\*ap01

757 sequences assigned  
727 (96%) exact matches, in which:  
710 unique CDR3  
13 unique J



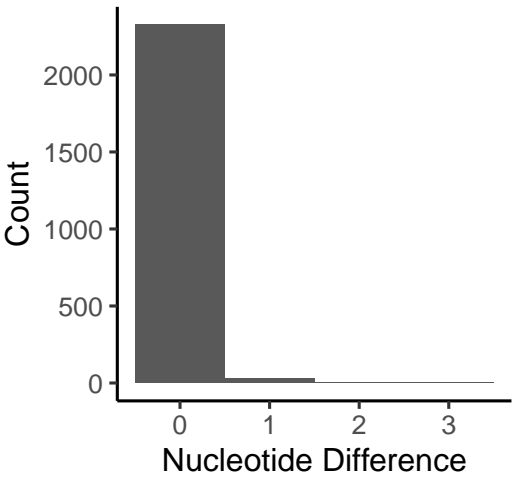
TRBV10-1\*ap01

1032 sequences assigned  
1009 (97.8%) exact matches, in which:  
1000 unique CDR3  
13 unique J



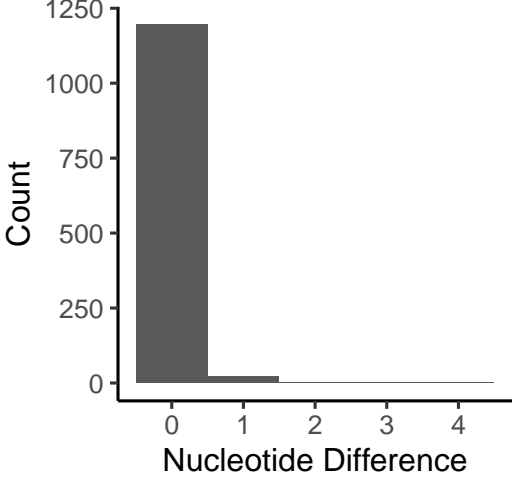
TRBV10-3\*ap01

2361 sequences assigned  
2326 (98.5%) exact matches, in which:  
2304 unique CDR3  
13 unique J



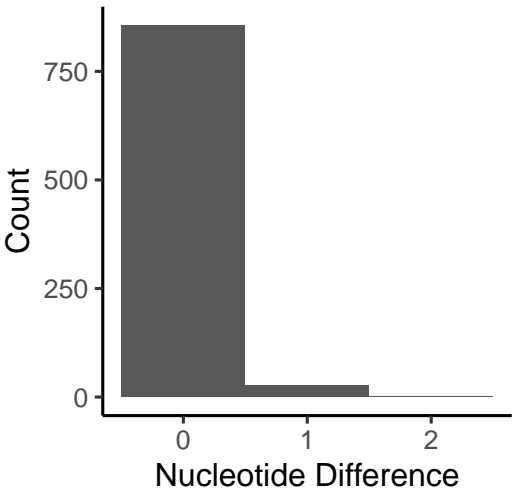
TRBV14\*ap01

1222 sequences assigned  
1195 (97.8%) exact matches, in which:  
1182 unique CDR3  
13 unique J



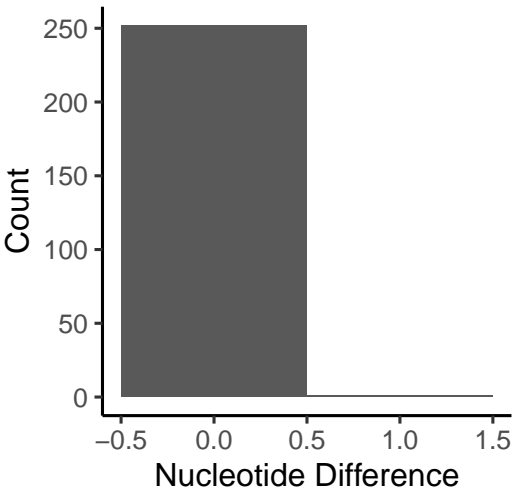
TRBV20-1\*ap02

884 sequences assigned  
856 (96.8%) exact matches, in which:  
828 unique CDR3  
13 unique J



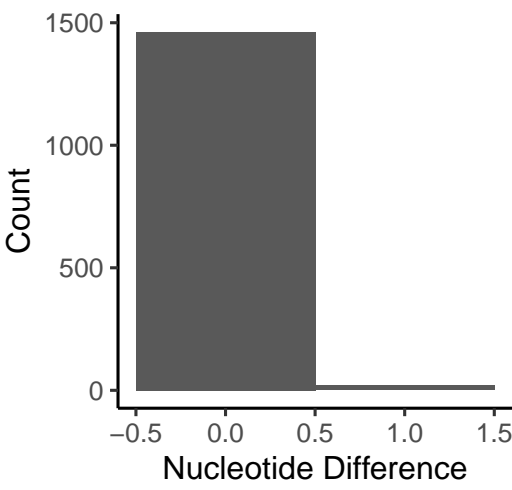
TRBV1\*ap01

253 sequences assigned  
252 (99.6%) exact matches, in which:  
247 unique CDR3  
13 unique J



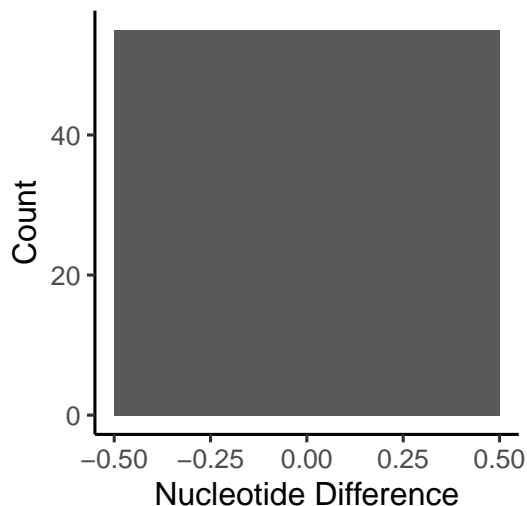
TRBV15\*ap02

1481 sequences assigned  
1462 (98.7%) exact matches, in which:  
1448 unique CDR3  
13 unique J



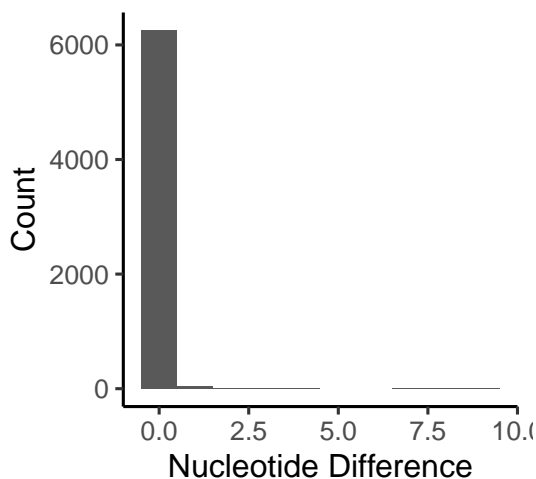
### TRBV16\*ap01

55 sequences assigned  
55 (100%) exact matches, in which:  
55 unique CDR3  
10 unique J



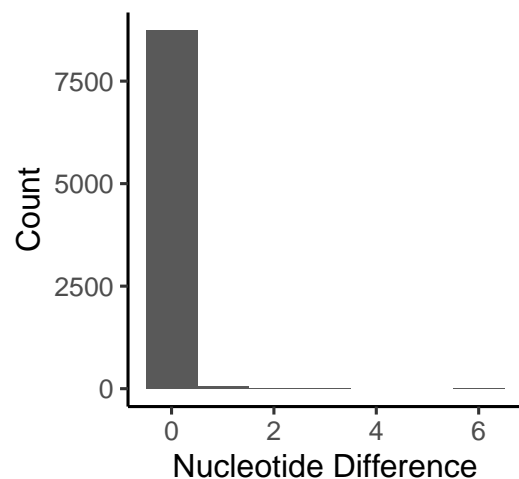
### TRBV19\*ap01

6309 sequences assigned  
6253 (99.1%) exact matches, in which:  
6197 unique CDR3  
13 unique J



### TRBV28\*ap01

8810 sequences assigned  
8737 (99.2%) exact matches, in which:  
8658 unique CDR3  
13 unique J



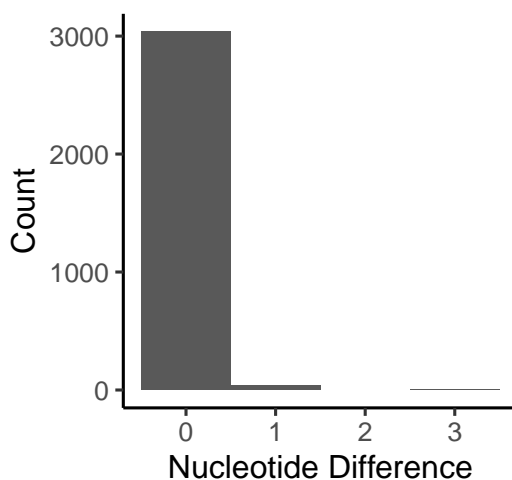
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



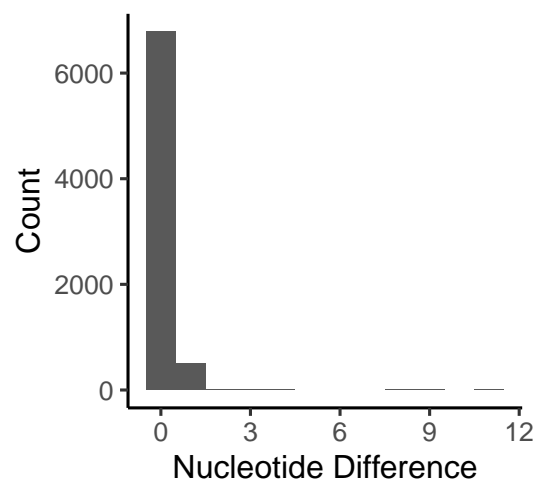
### TRBV2\*ap01

3078 sequences assigned  
3037 (98.7%) exact matches, in which:  
3011 unique CDR3  
13 unique J



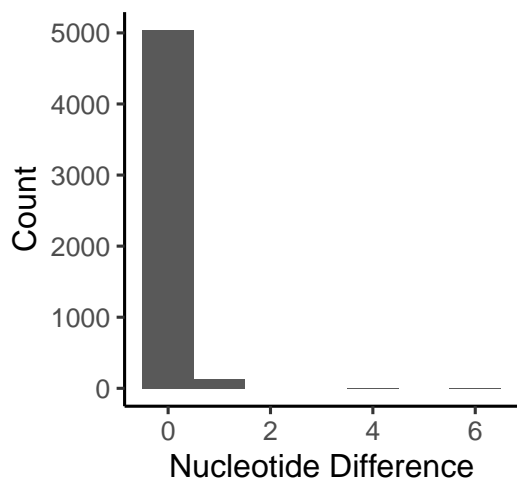
### TRBV30\*ap01

7317 sequences assigned  
6783 (92.7%) exact matches, in which:  
6358 unique CDR3  
13 unique J



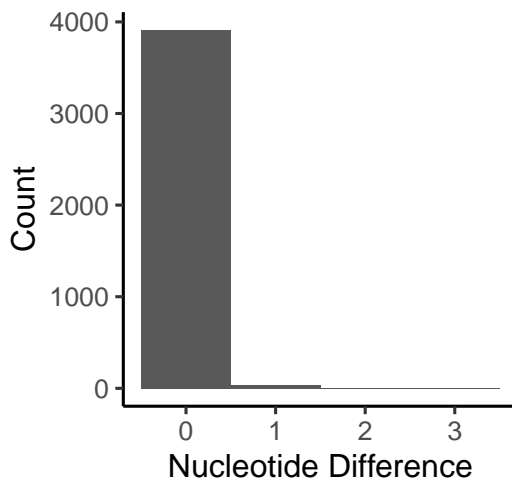
### TRBV18\*ap01

5172 sequences assigned  
5040 (97.4%) exact matches, in which:  
4925 unique CDR3  
13 unique J



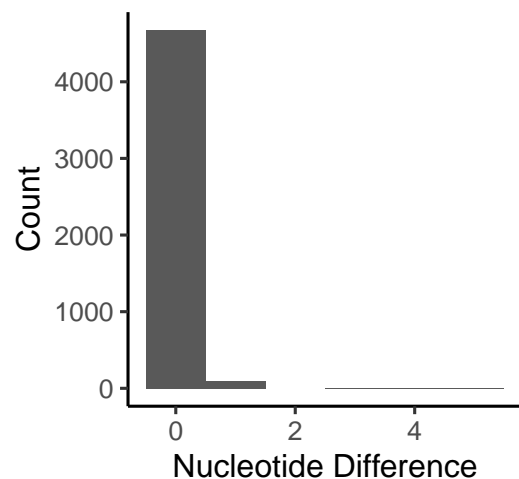
### TRBV27\*ap01

3956 sequences assigned  
3911 (98.9%) exact matches, in which:  
3879 unique CDR3  
13 unique J



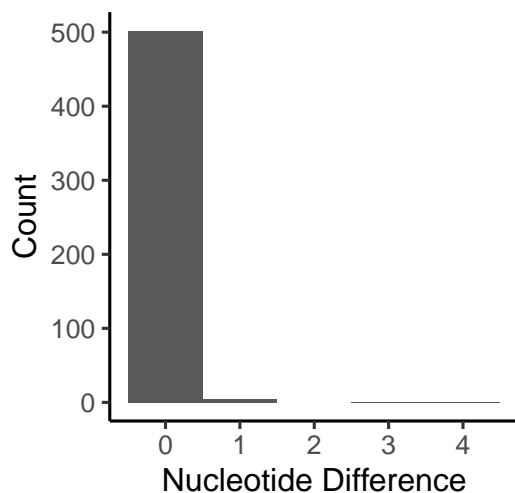
### TRBV9\*ap01

4773 sequences assigned  
4675 (97.9%) exact matches, in which:  
4626 unique CDR3  
13 unique J



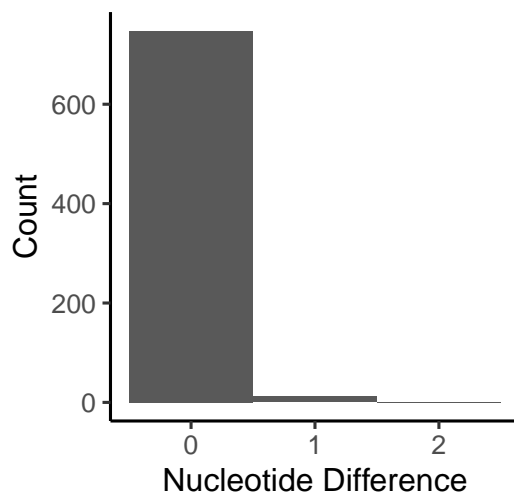
### TRBV21–1\*ap01

509 sequences assigned  
502 (98.6%) exact matches, in which:  
497 unique CDR3  
13 unique J



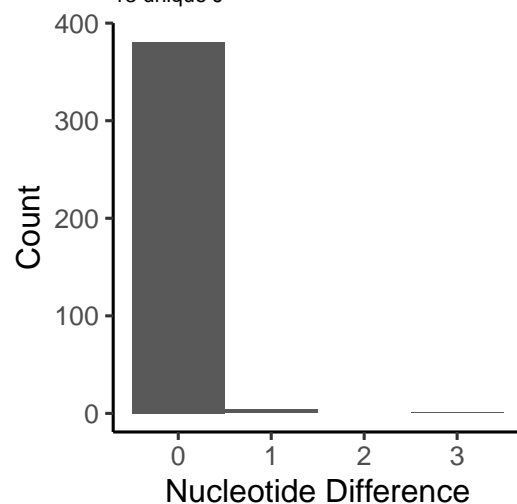
### TRBV11–3\*ap01

761 sequences assigned  
748 (98.3%) exact matches, in which:  
741 unique CDR3  
13 unique J



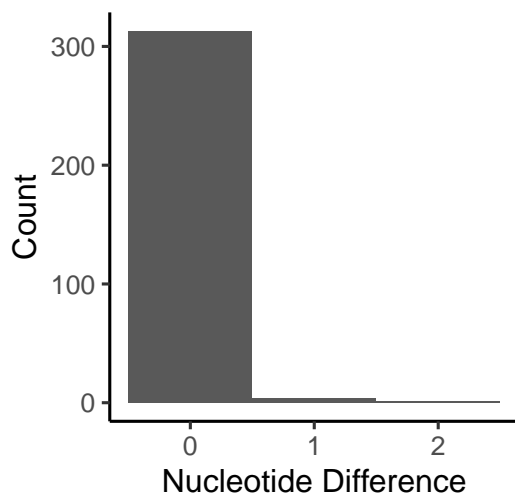
### TRBV12–5\*ap01

386 sequences assigned  
381 (98.7%) exact matches, in which:  
377 unique CDR3  
13 unique J



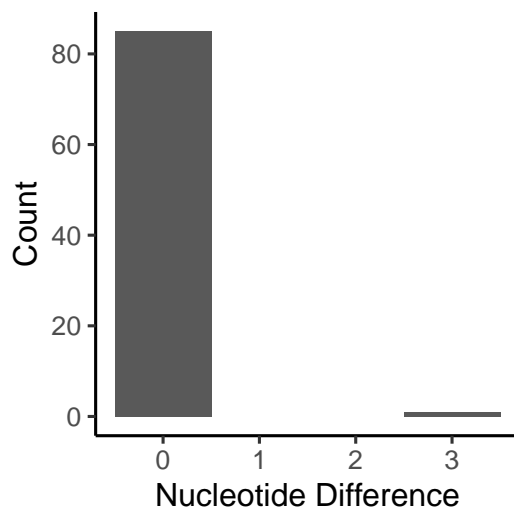
### TRBV11–1\*ap01

318 sequences assigned  
313 (98.4%) exact matches, in which:  
310 unique CDR3  
13 unique J



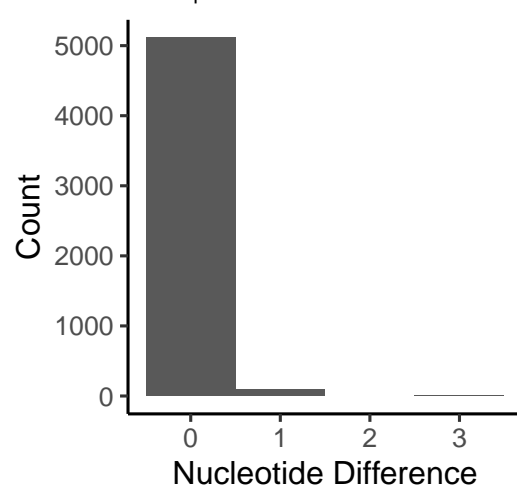
### TRBV12–1\*ap01

86 sequences assigned  
85 (98.8%) exact matches, in which:  
85 unique CDR3  
12 unique J



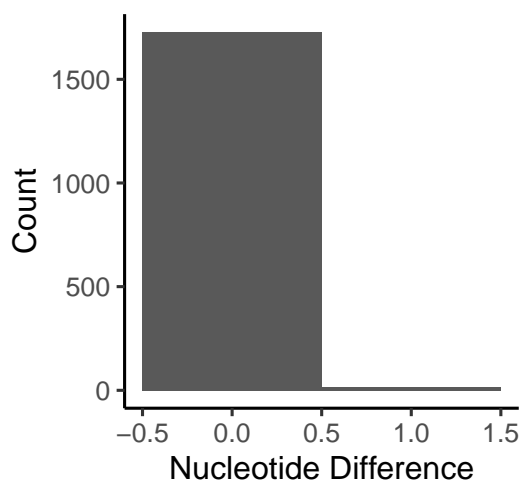
### TRBV12–34\*ap01

5212 sequences assigned  
5113 (98.1%) exact matches, in which:  
5052 unique CDR3  
13 unique J



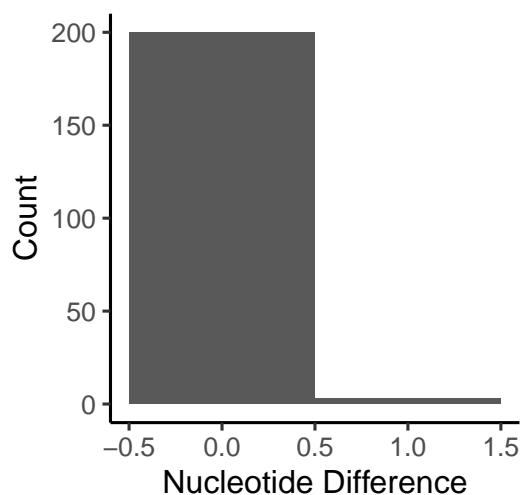
### TRBV11–2\*ap01

1743 sequences assigned  
1728 (99.1%) exact matches, in which:  
1714 unique CDR3  
13 unique J



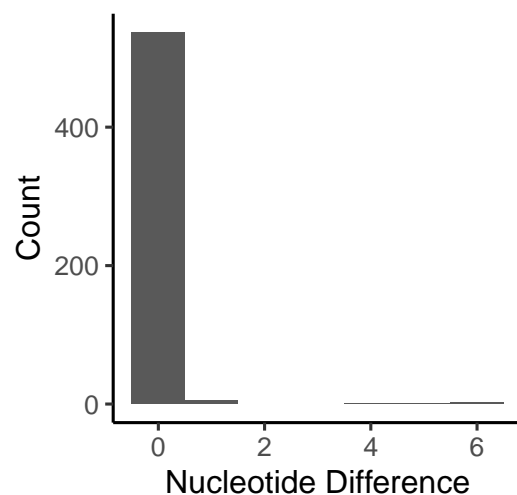
### TRBV12–2\*ap01

203 sequences assigned  
200 (98.5%) exact matches, in which:  
198 unique CDR3  
13 unique J



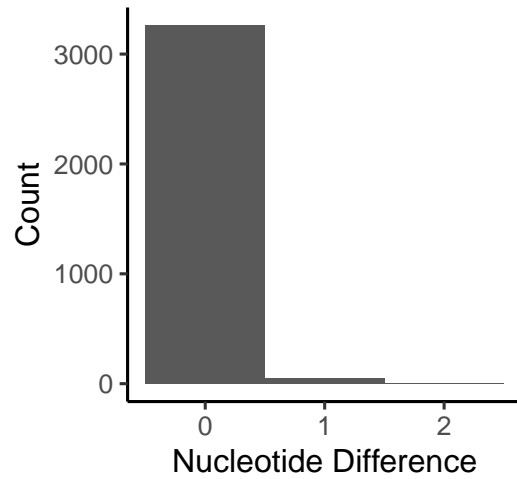
### TRBV23–1\*ap01

546 sequences assigned  
537 (98.4%) exact matches, in which:  
534 unique CDR3  
13 unique J



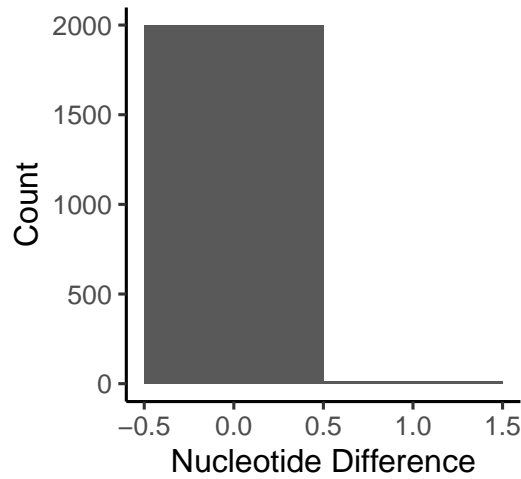
### TRBV3-12\*ap01

3312 sequences assigned  
3261 (98.5%) exact matches, in which:  
3237 unique CDR3  
13 unique J



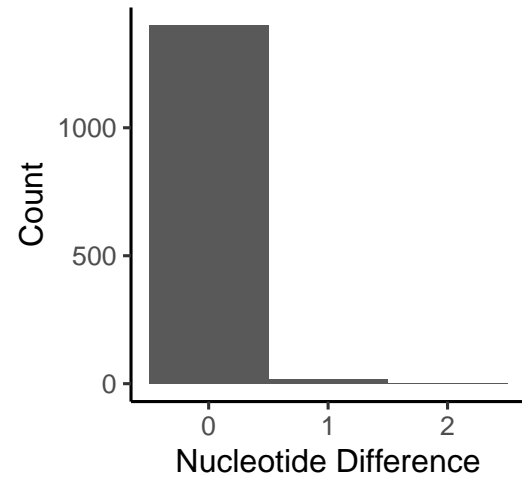
### TRBV4-2\*ap01

2013 sequences assigned  
1998 (99.3%) exact matches, in which:  
1970 unique CDR3  
13 unique J



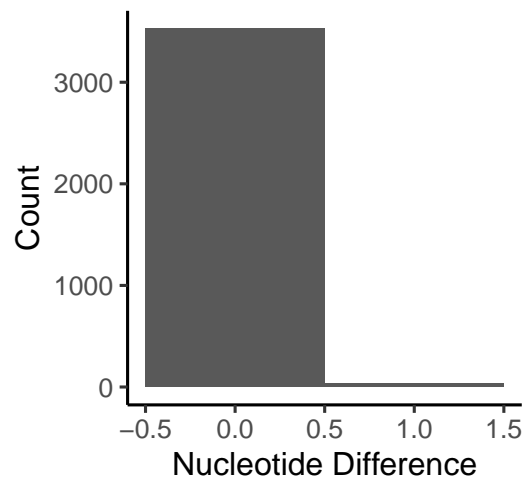
### TRBV25-1\*ap01

1419 sequences assigned  
1400 (98.7%) exact matches, in which:  
1372 unique CDR3  
13 unique J



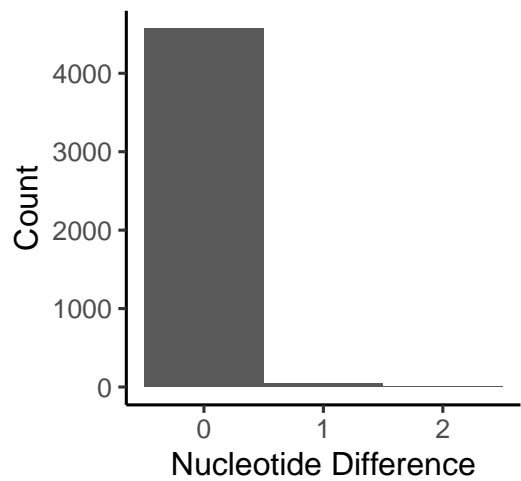
### TRBV4-1\*ap01

3559 sequences assigned  
3527 (99.1%) exact matches, in which:  
3442 unique CDR3  
13 unique J



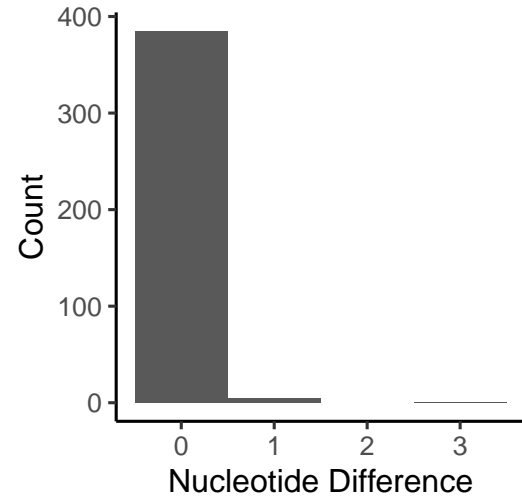
### TRBV4-3\*ap01

4610 sequences assigned  
4568 (99.1%) exact matches, in which:  
4454 unique CDR3  
13 unique J



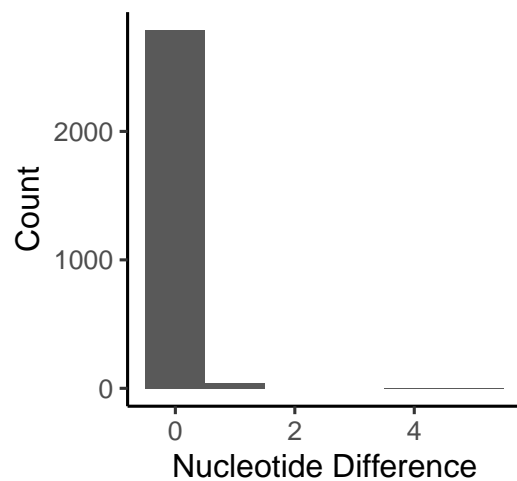
### TRBV5-3\*ap01

391 sequences assigned  
385 (98.5%) exact matches, in which:  
379 unique CDR3  
13 unique J



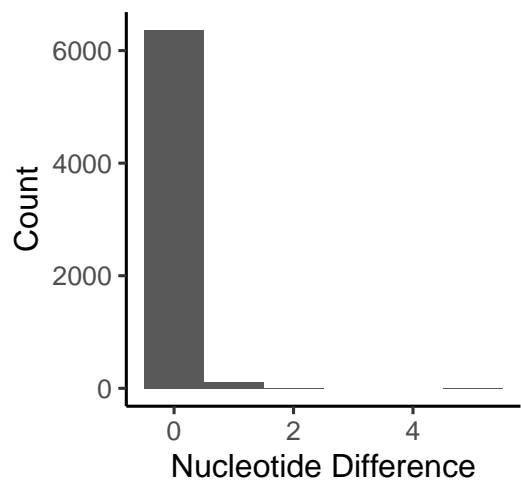
### TRBV24-1\*ap01

2834 sequences assigned  
2789 (98.4%) exact matches, in which:  
2750 unique CDR3  
13 unique J



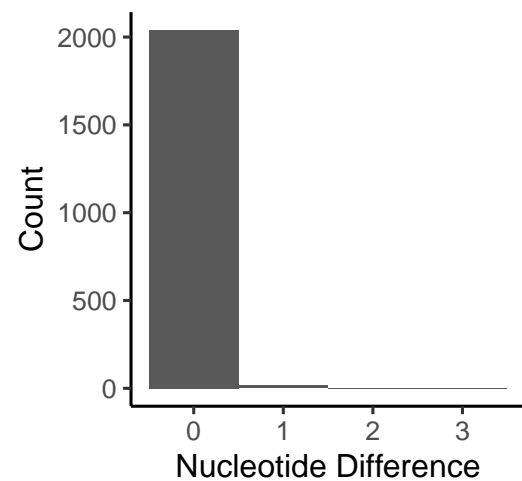
### TRBV5-1\*ap01

6478 sequences assigned  
6365 (98.3%) exact matches, in which:  
6234 unique CDR3  
13 unique J



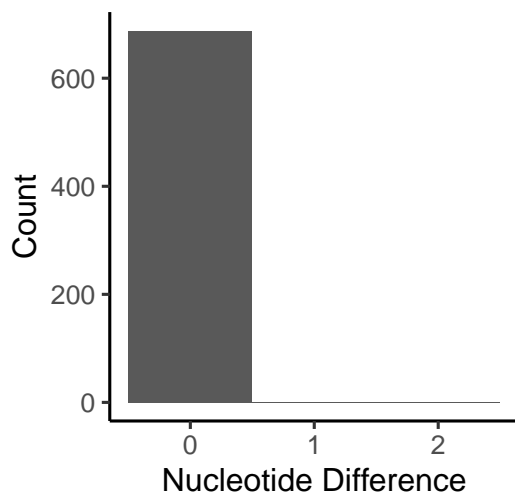
### TRBV5-4\*ap01

2057 sequences assigned  
2040 (99.2%) exact matches, in which:  
2016 unique CDR3  
13 unique J



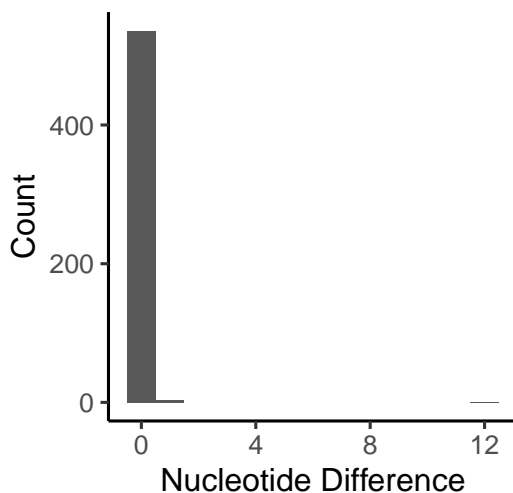
### TRBV5-5\*ap01

690 sequences assigned  
688 (99.7%) exact matches, in which:  
680 unique CDR3  
13 unique J



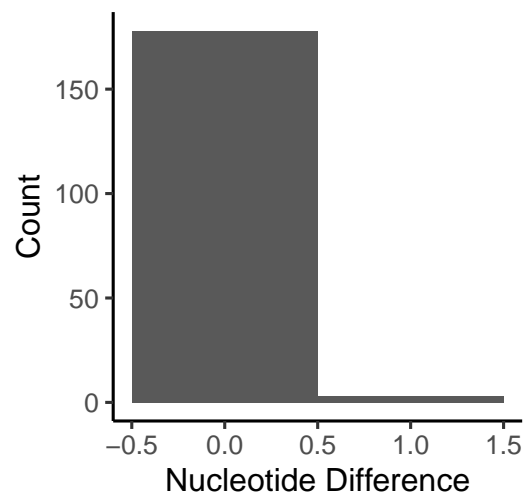
### TRBV5-8\*ap01

540 sequences assigned  
536 (99.3%) exact matches, in which:  
531 unique CDR3  
13 unique J



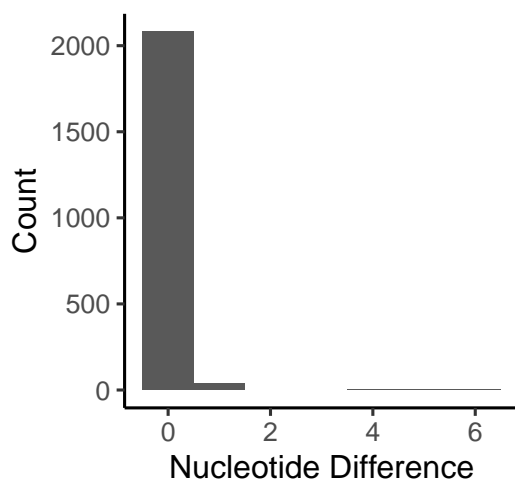
### TRBV6-7\*ap01

181 sequences assigned  
178 (98.3%) exact matches, in which:  
177 unique CDR3  
13 unique J



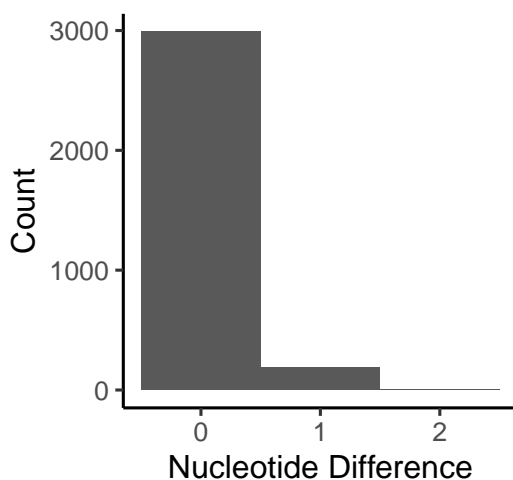
### TRBV5-6\*ap01

2120 sequences assigned  
2081 (98.2%) exact matches, in which:  
2017 unique CDR3  
13 unique J



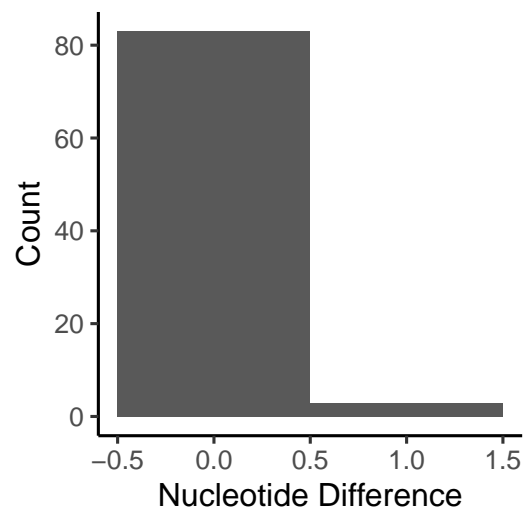
### TRBV6-1\*ap01

3177 sequences assigned  
2990 (94.1%) exact matches, in which:  
2933 unique CDR3  
13 unique J



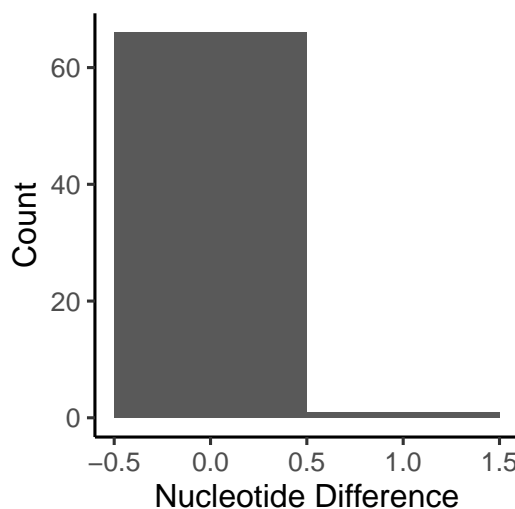
### TRBV6-8\*ap01

86 sequences assigned  
83 (96.5%) exact matches, in which:  
81 unique CDR3  
12 unique J



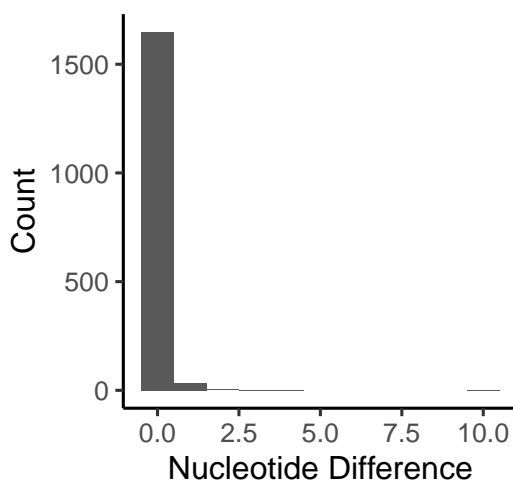
### TRBV5-7\*ap01

67 sequences assigned  
66 (98.5%) exact matches, in which:  
65 unique CDR3  
12 unique J



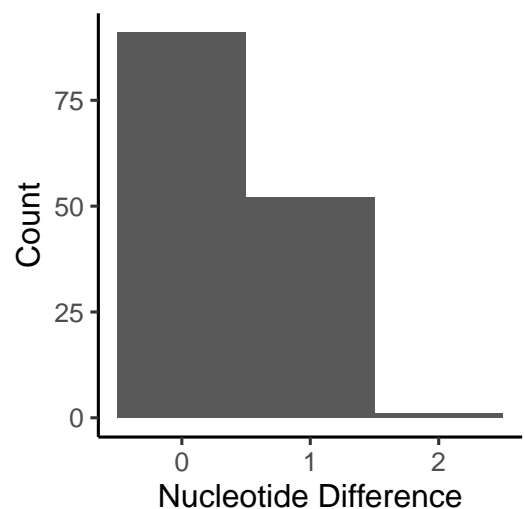
### TRBV6-4\*ap01

1687 sequences assigned  
1648 (97.7%) exact matches, in which:  
1629 unique CDR3  
13 unique J



### TRBV6-9\*ap01

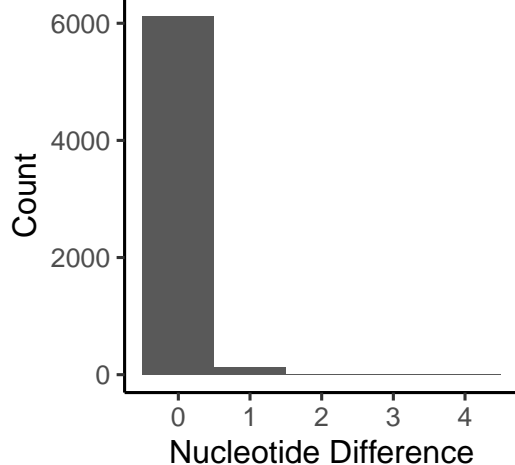
144 sequences assigned  
91 (63.2%) exact matches, in which:  
89 unique CDR3  
12 unique J





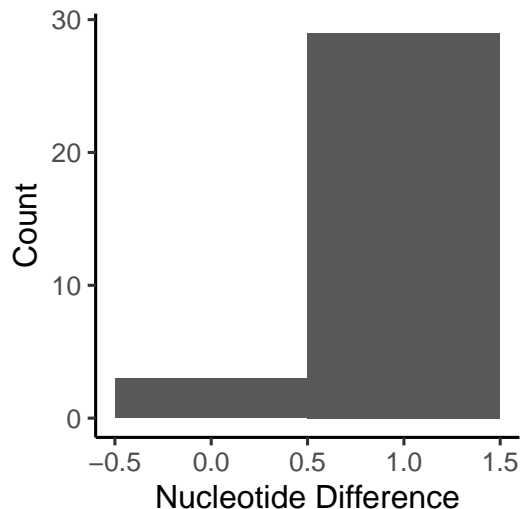
### TRBV6-23\*ap01

6253 sequences assigned  
6117 (97.8%) exact matches, in which:  
6004 unique CDR3  
13 unique J



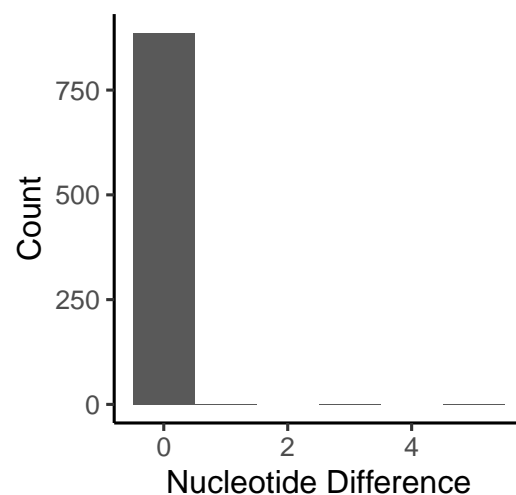
### TRBV7-1\*ap01\_T296C

32 sequences assigned  
3 (9.4%) exact matches, in which:  
3 unique CDR3  
3 unique J



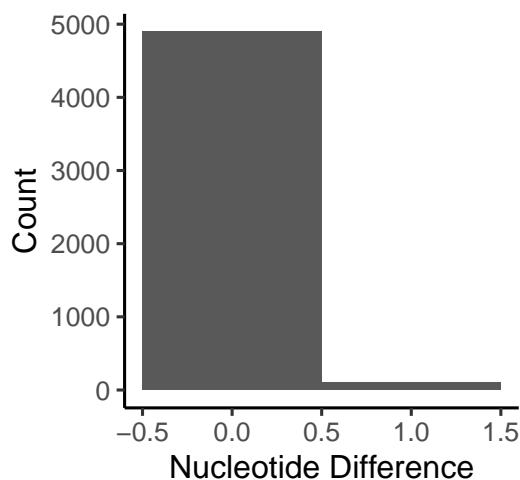
### TRBV7-3\*ap01\_G301A

890 sequences assigned  
887 (99.7%) exact matches, in which:  
875 unique CDR3  
13 unique J



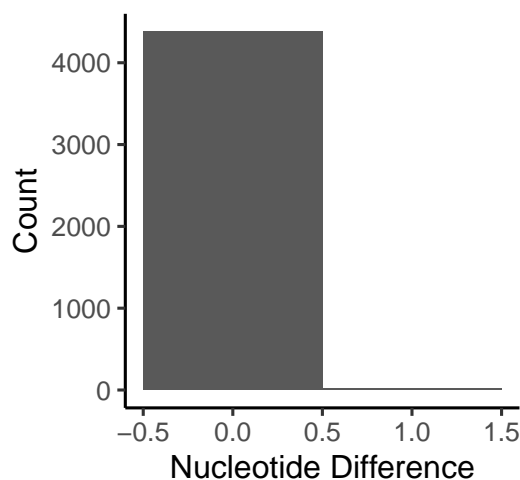
### TRBV6-56\*ap01

4995 sequences assigned  
4897 (98%) exact matches, in which:  
4822 unique CDR3  
13 unique J



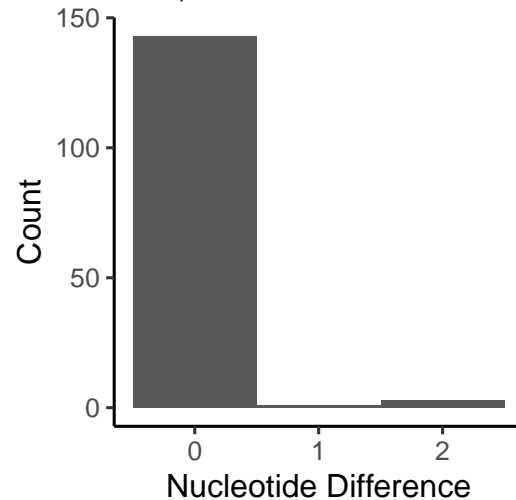
### TRBV7-2\*ap01

4403 sequences assigned  
4379 (99.5%) exact matches, in which:  
4341 unique CDR3  
13 unique J



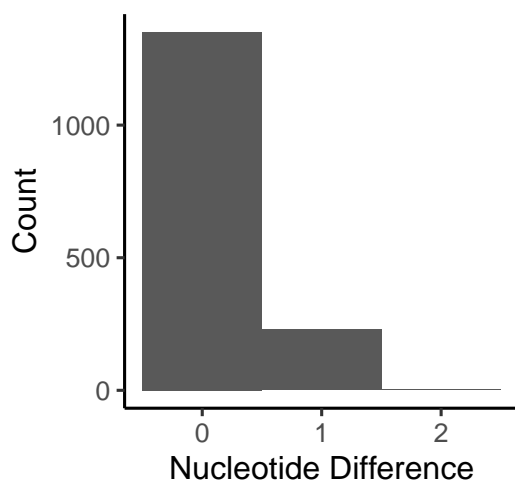
### TRBV7-4\*ap01

147 sequences assigned  
143 (97.3%) exact matches, in which:  
138 unique CDR3  
12 unique J



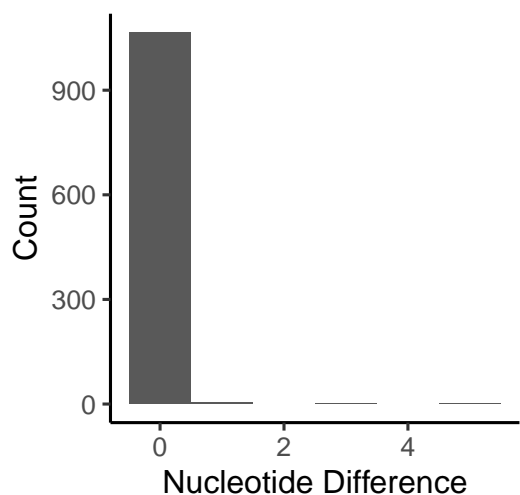
### TRBV6-56\*ap02

1584 sequences assigned  
1351 (85.3%) exact matches, in which:  
1327 unique CDR3  
13 unique J



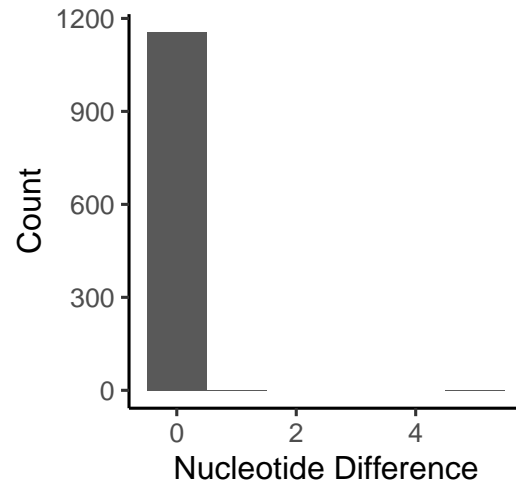
### TRBV7-3\*ap01

1073 sequences assigned  
1066 (99.3%) exact matches, in which:  
1052 unique CDR3  
13 unique J



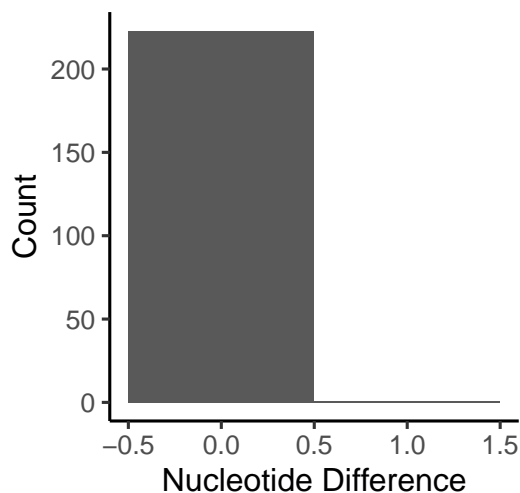
### TRBV7-6\*ap01

1159 sequences assigned  
1156 (99.7%) exact matches, in which:  
1136 unique CDR3  
13 unique J



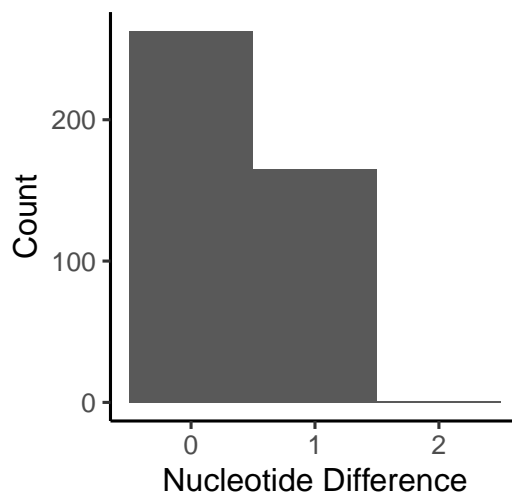
### TRBV7-7\*ap01

224 sequences assigned  
223 (99.6%) exact matches, in which:  
220 unique CDR3  
13 unique J



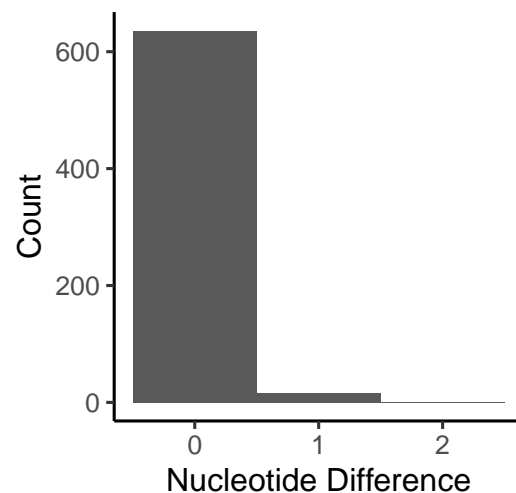
### TRBV7-8\*ap03

429 sequences assigned  
263 (61.3%) exact matches, in which:  
262 unique CDR3  
13 unique J



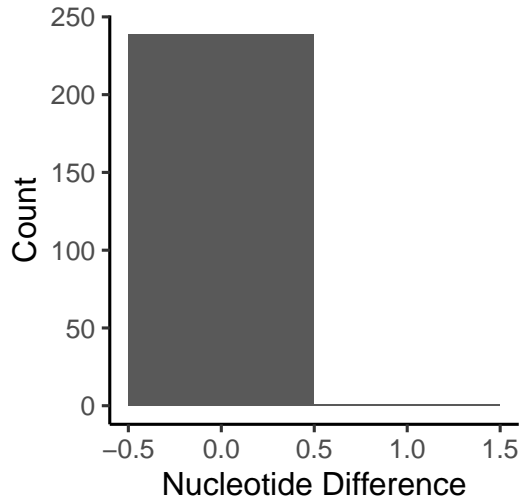
### TRBV29-1\*ap02

653 sequences assigned  
636 (97.4%) exact matches, in which:  
595 unique CDR3  
13 unique J



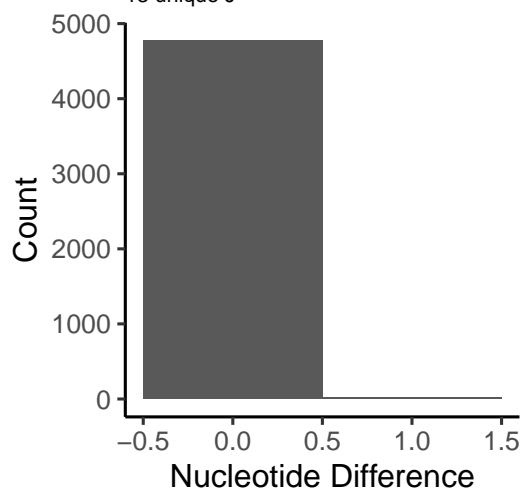
### TRBV7-7\*ap01\_C315T

240 sequences assigned  
239 (99.6%) exact matches, in which:  
232 unique CDR3  
12 unique J



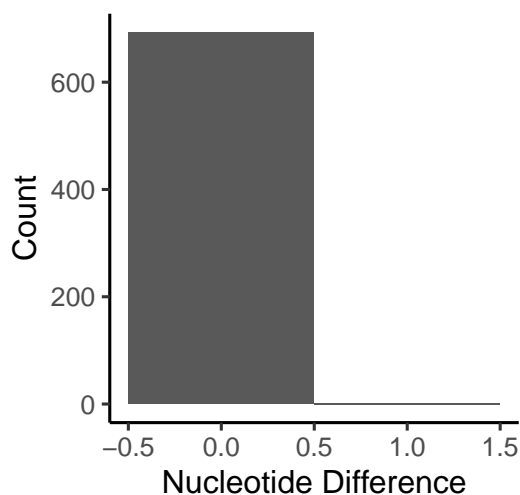
### TRBV7-9\*ap01

4788 sequences assigned  
4772 (99.7%) exact matches, in which:  
4708 unique CDR3  
13 unique J



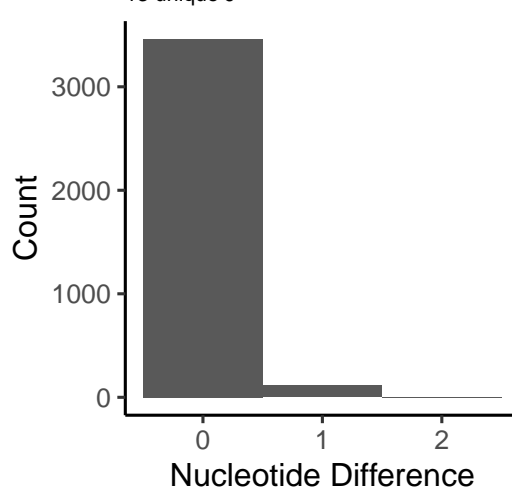
### TRBV7-8\*ap01

695 sequences assigned  
693 (99.7%) exact matches, in which:  
687 unique CDR3  
13 unique J

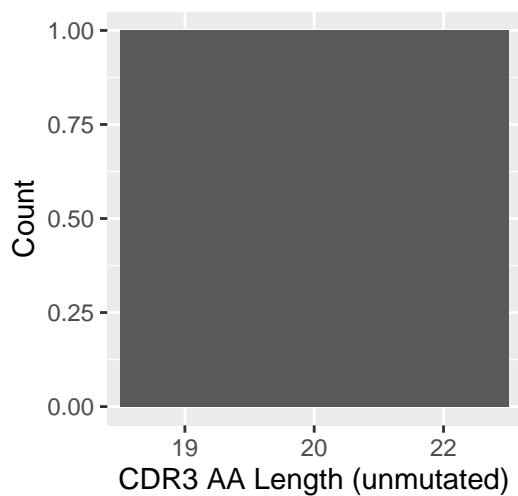


### TRBV29-1\*ap01

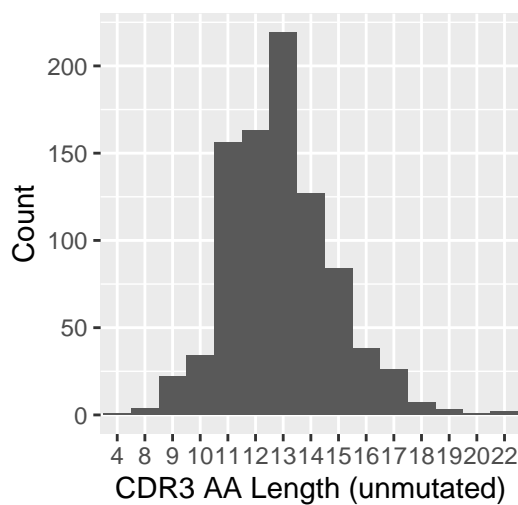
3577 sequences assigned  
3461 (96.8%) exact matches, in which:  
3259 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-3\*ap01\_G301A



TRBV7-7\*ap01\_C315T

