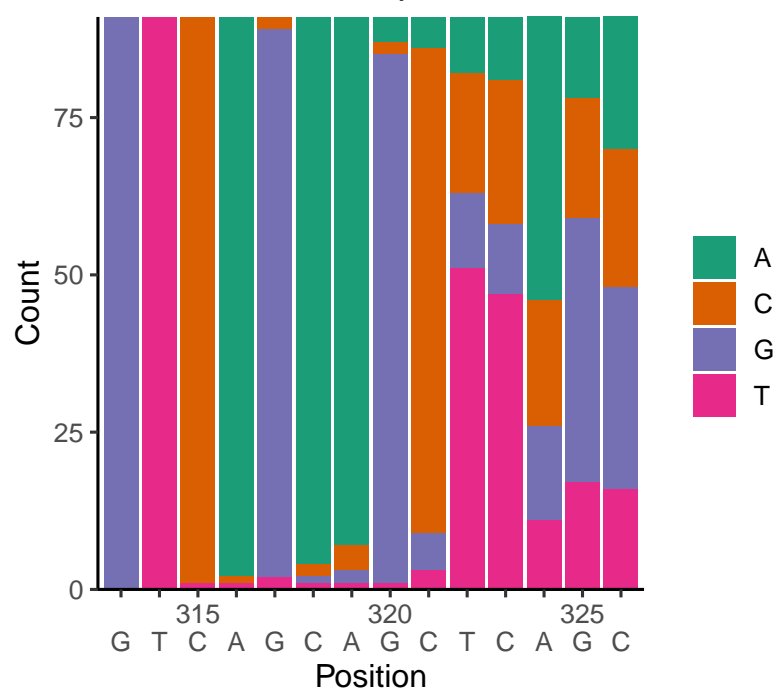
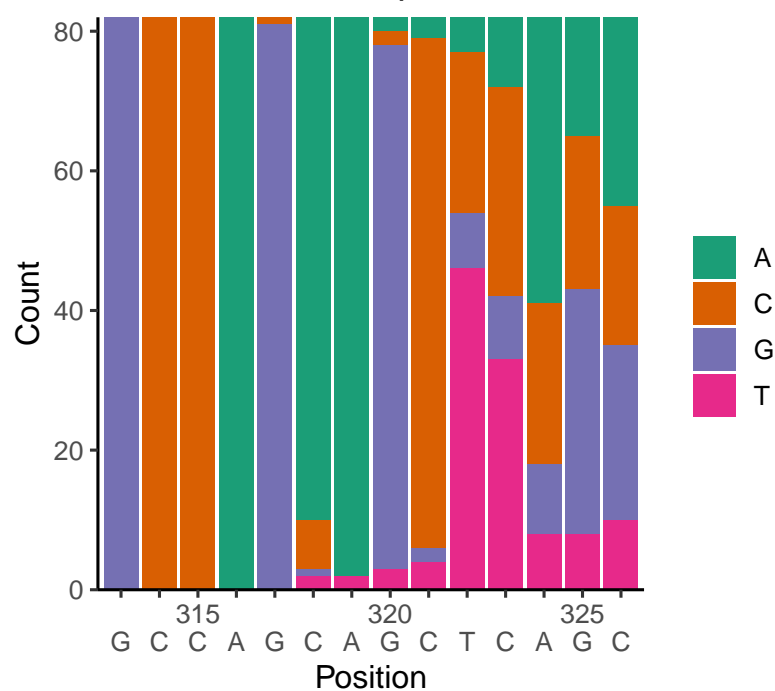


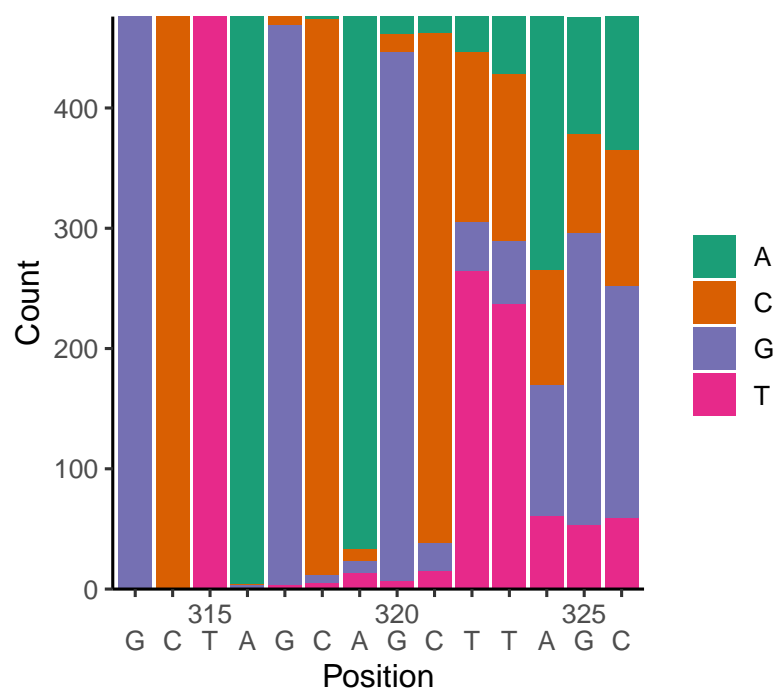
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



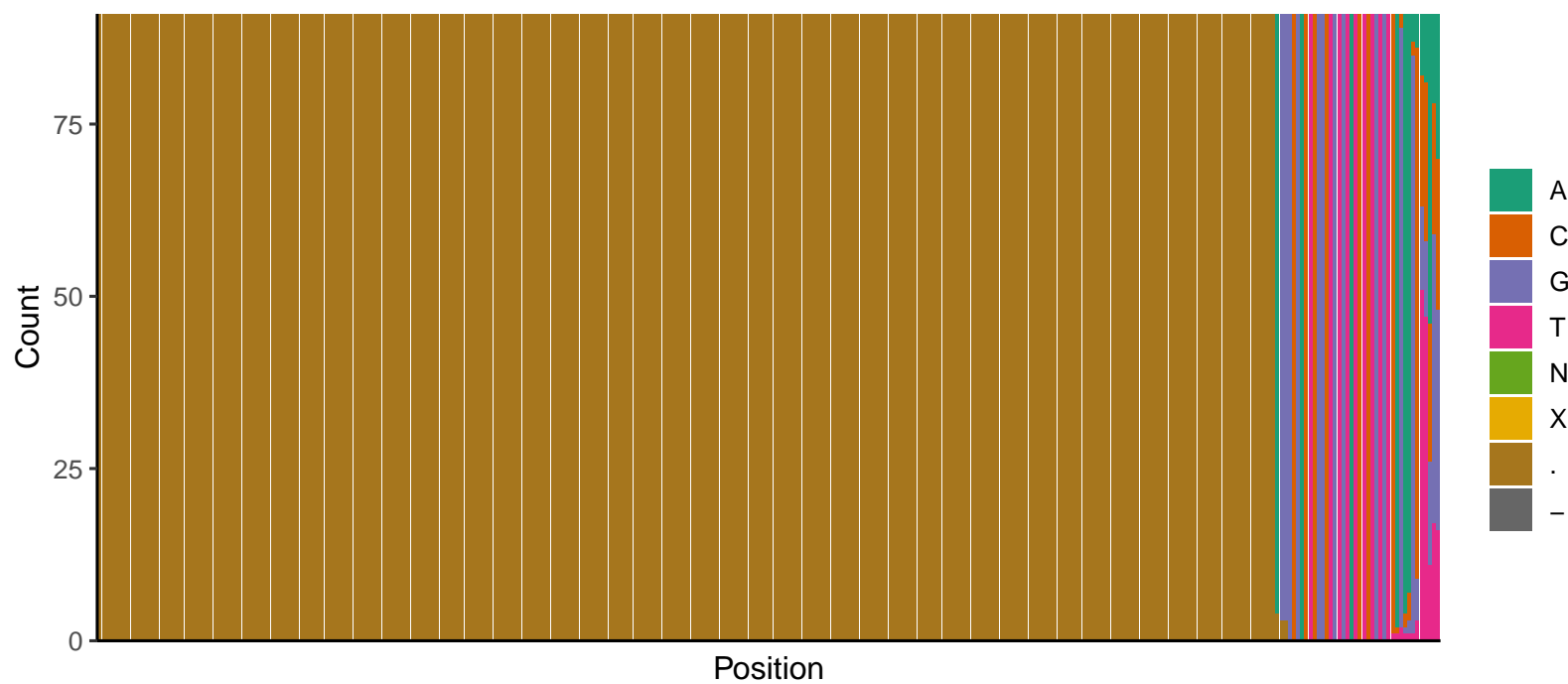
Gene TRBV7-1\*ap01\_G291C\_T296C



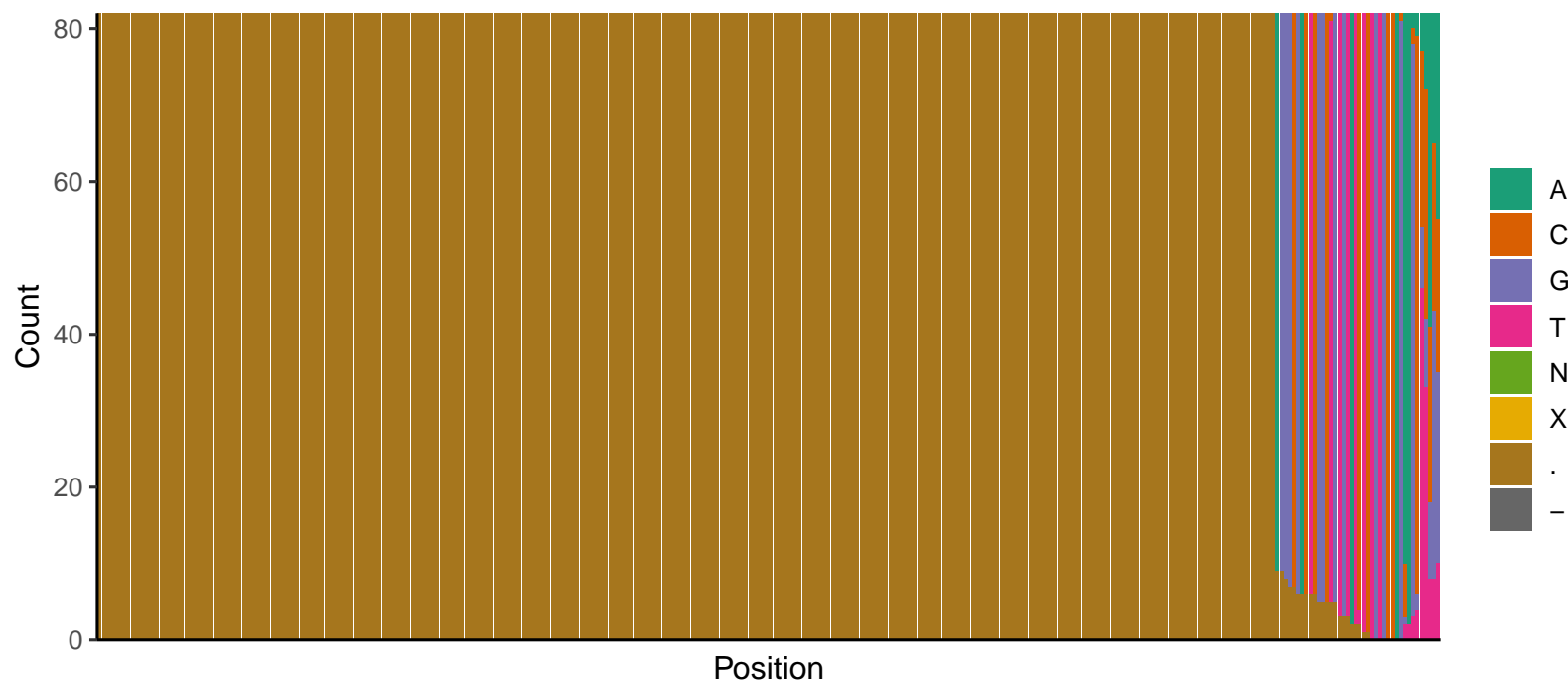
Gene TRBV7-7\*ap01\_C315T



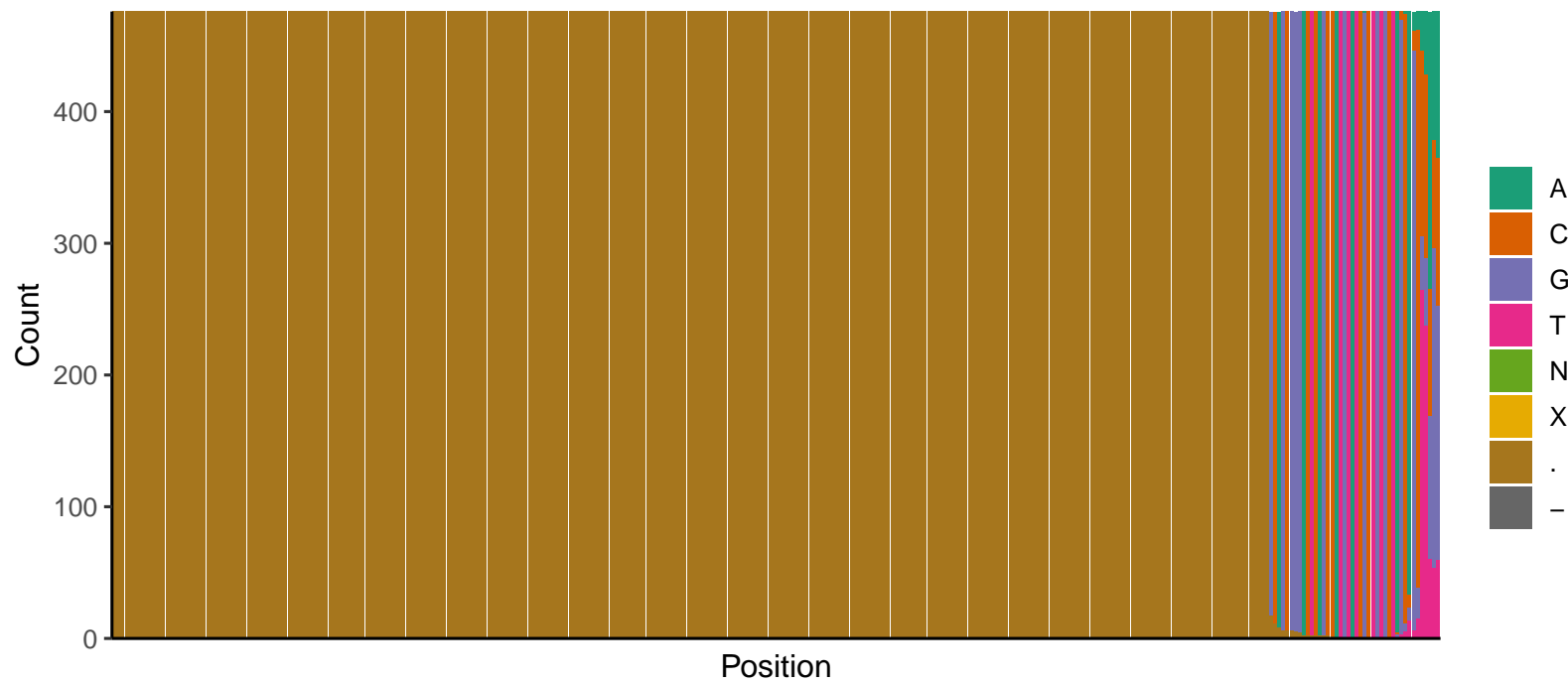
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



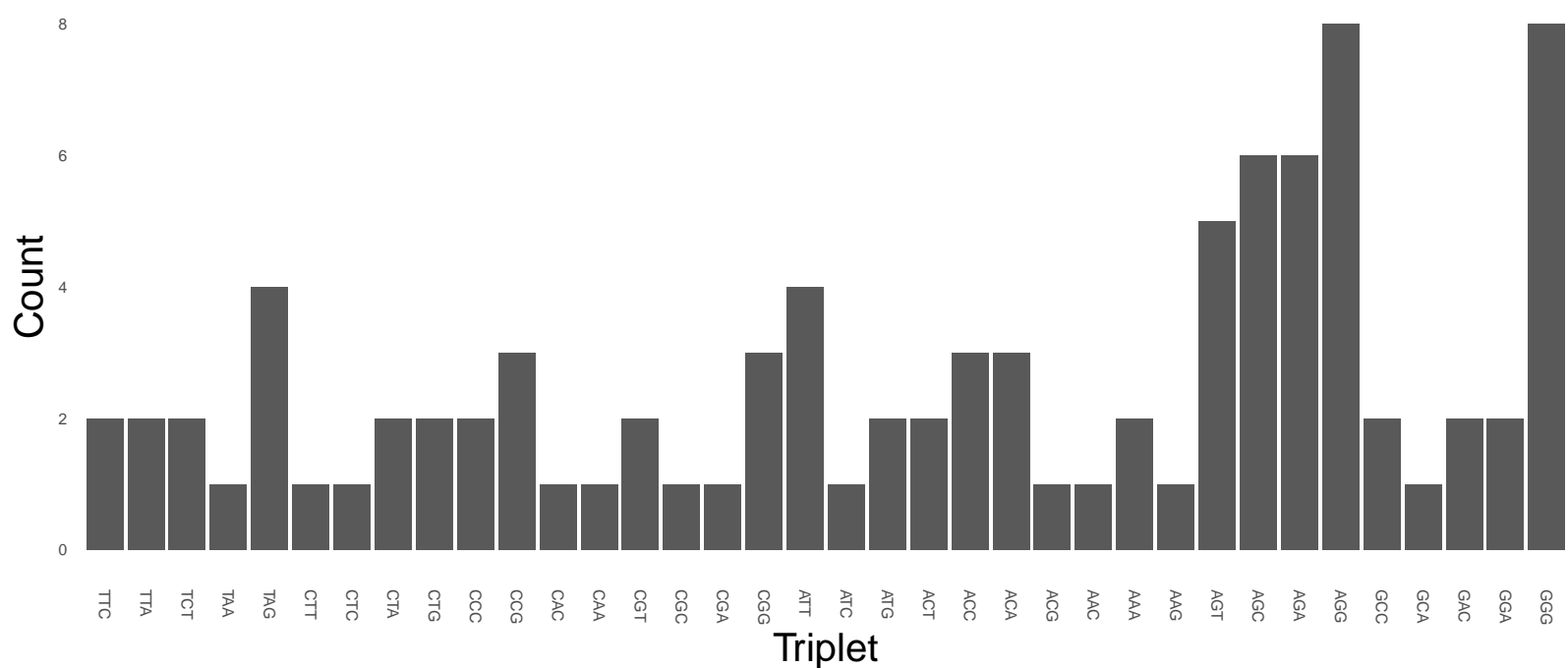
Gene TRBV7-1\*ap01\_G291C\_T296C



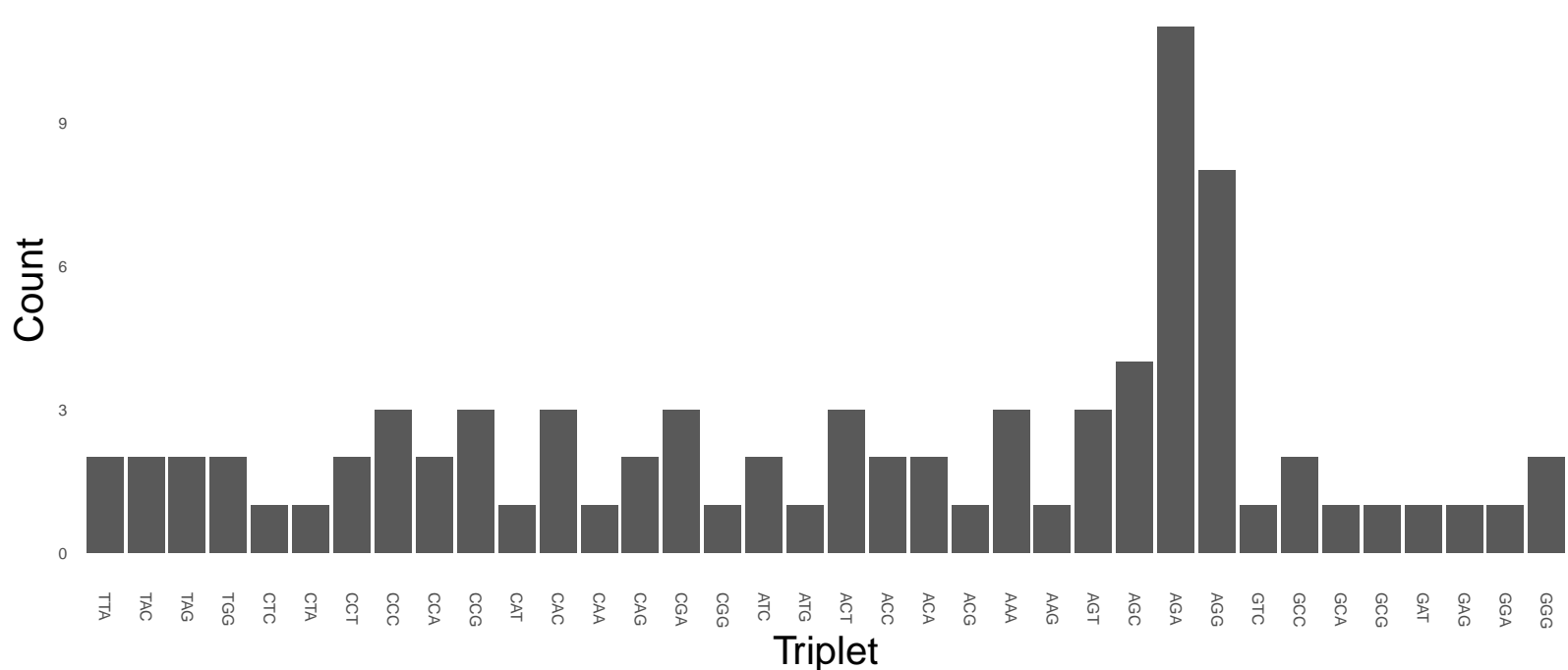
Gene TRBV7-7\*ap01\_C315T



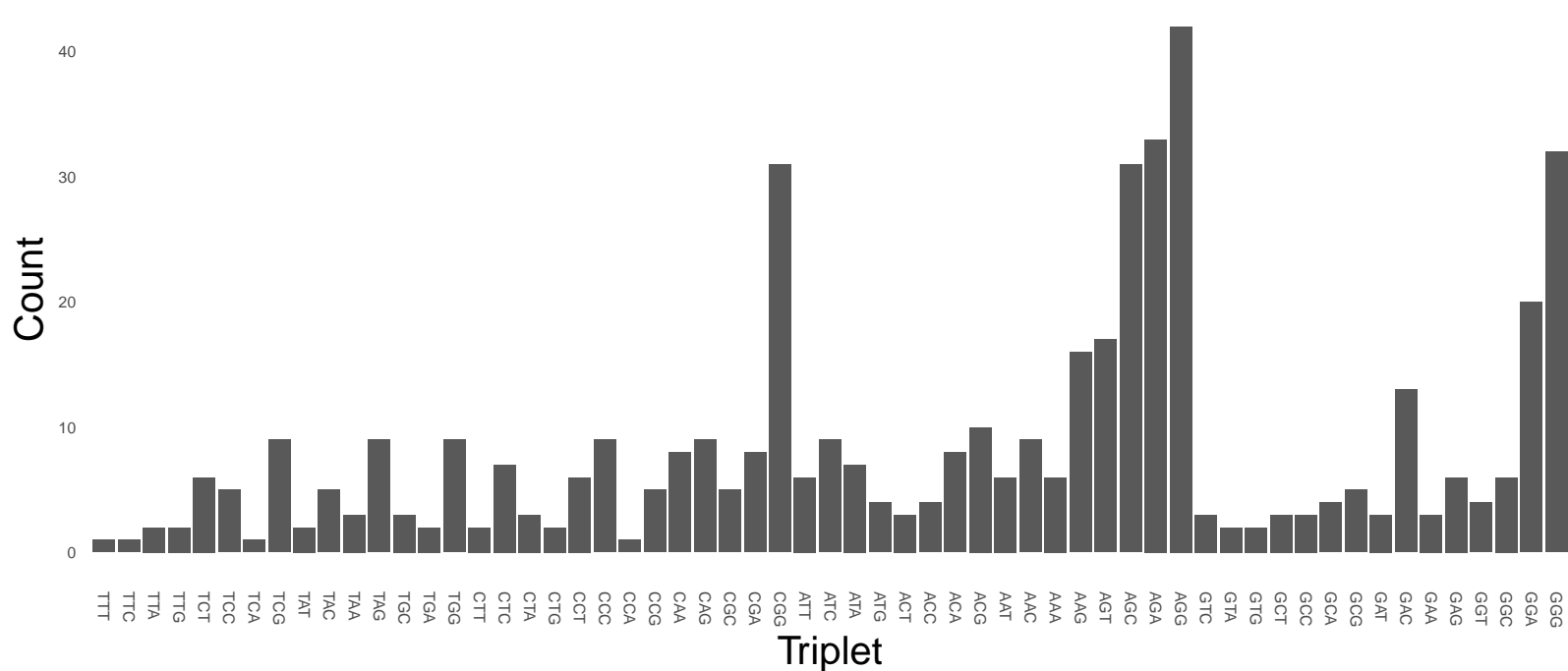
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

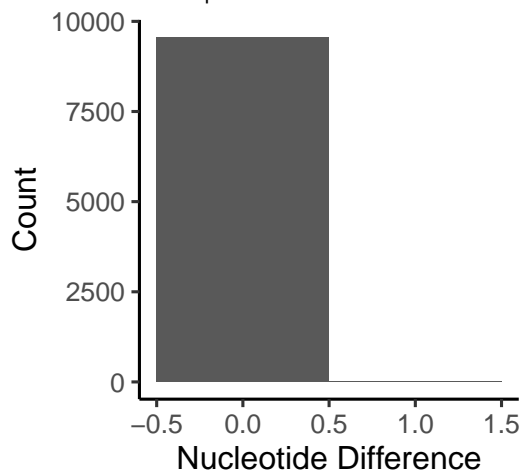


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



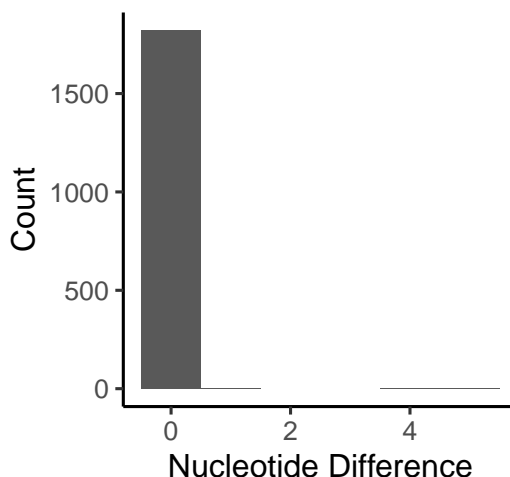
### TRBV20-1\*ap01

9581 sequences assigned  
9562 (99.8%) exact matches, in which:  
9552 unique CDR3  
13 unique J



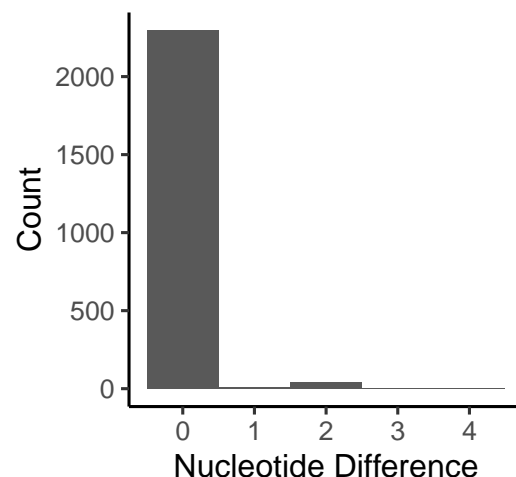
### TRBV10-2\*ap01

1825 sequences assigned  
1821 (99.8%) exact matches, in which:  
1821 unique CDR3  
13 unique J



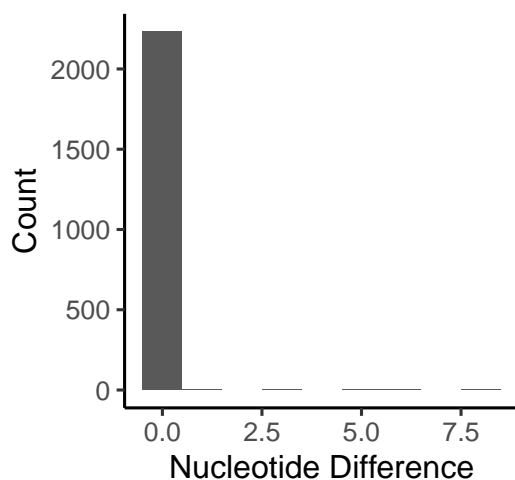
### TRBV13\*ap01

2344 sequences assigned  
2296 (98%) exact matches, in which:  
2294 unique CDR3  
13 unique J



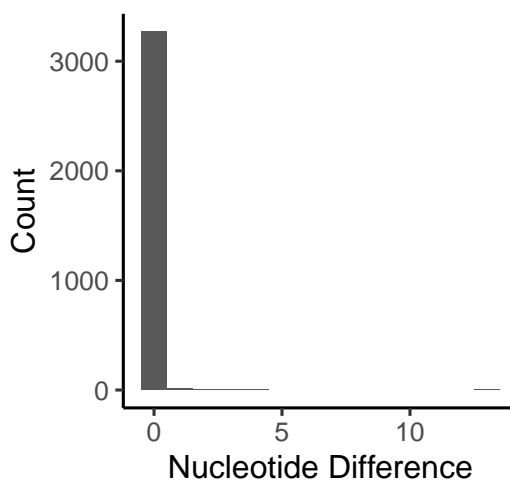
### TRBV10-1\*ap01

2238 sequences assigned  
2232 (99.7%) exact matches, in which:  
2229 unique CDR3  
13 unique J



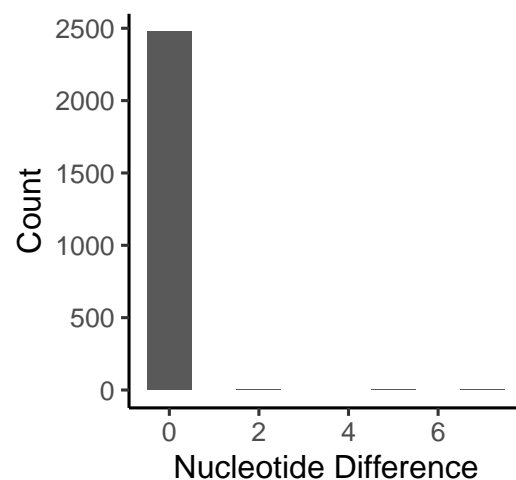
### TRBV10-3\*ap01

3286 sequences assigned  
3269 (99.5%) exact matches, in which:  
3269 unique CDR3  
13 unique J



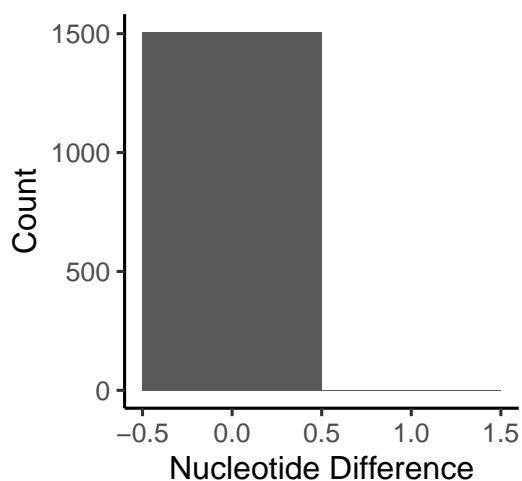
### TRBV14\*ap01

2479 sequences assigned  
2476 (99.9%) exact matches, in which:  
2476 unique CDR3  
13 unique J



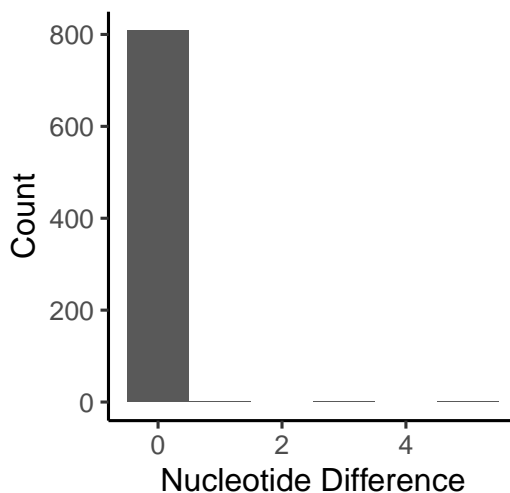
### TRBV20-1\*ap02

1509 sequences assigned  
1507 (99.9%) exact matches, in which:  
1507 unique CDR3  
13 unique J



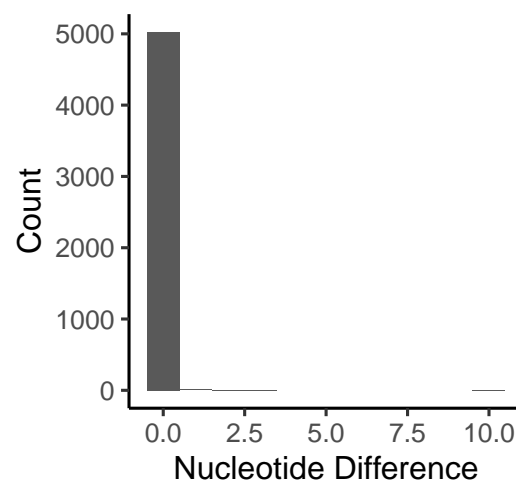
### TRBV1\*ap01

813 sequences assigned  
809 (99.5%) exact matches, in which:  
809 unique CDR3  
13 unique J



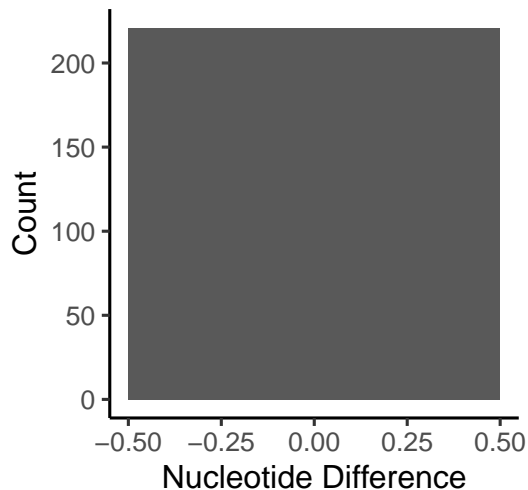
### TRBV15\*ap02

5037 sequences assigned  
5025 (99.8%) exact matches, in which:  
5022 unique CDR3  
13 unique J



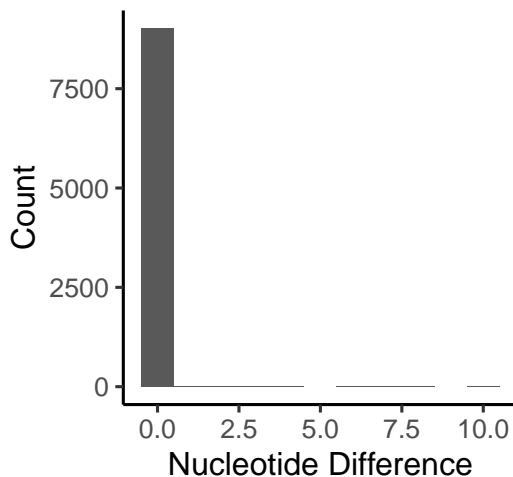
### TRBV16\*ap01

221 sequences assigned  
221 (100%) exact matches, in which:  
221 unique CDR3  
13 unique J



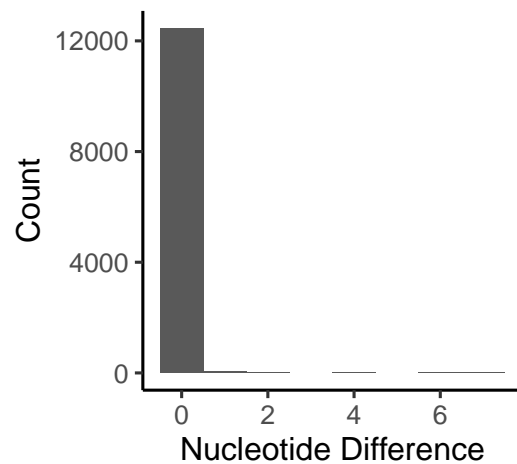
### TRBV19\*ap01

9039 sequences assigned  
9017 (99.8%) exact matches, in which:  
9017 unique CDR3  
14 unique J



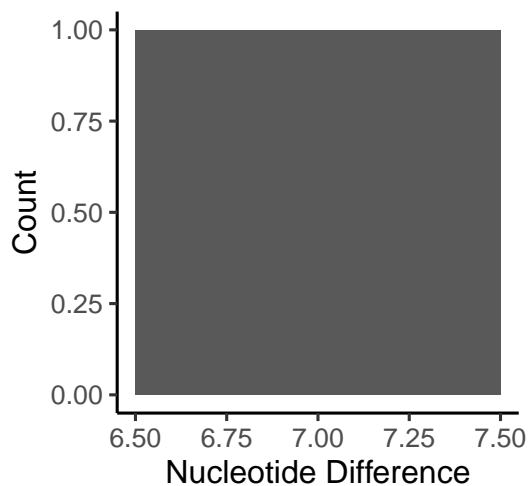
### TRBV27\*ap01

12513 sequences assigned  
12460 (99.6%) exact matches, in which:  
12420 unique CDR3  
13 unique J



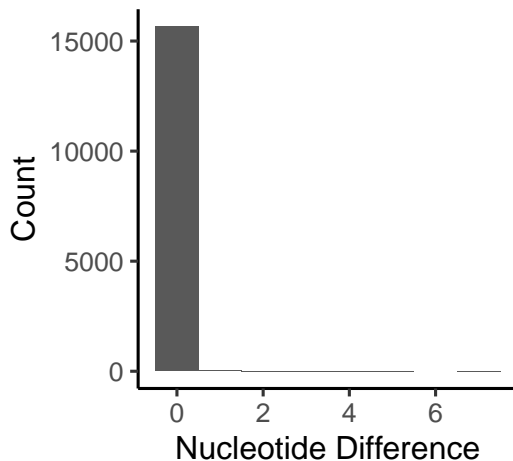
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



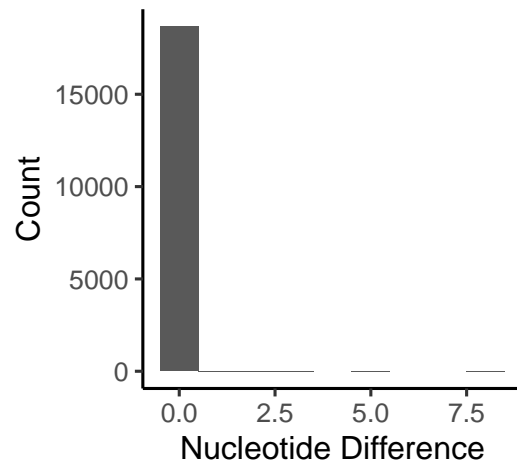
### TRBV2\*ap01

15716 sequences assigned  
15662 (99.7%) exact matches, in which:  
15607 unique CDR3  
13 unique J



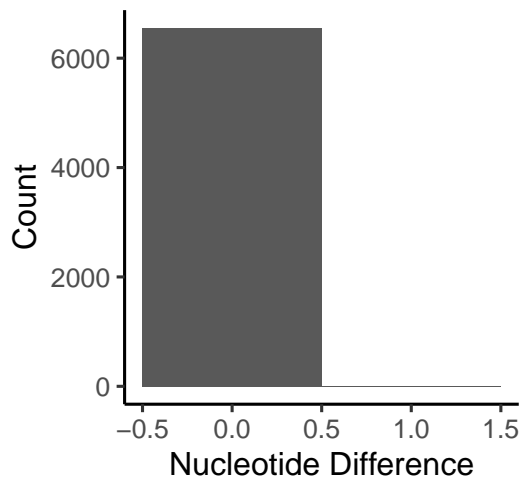
### TRBV28\*ap01

18704 sequences assigned  
18672 (99.8%) exact matches, in which:  
18668 unique CDR3  
13 unique J



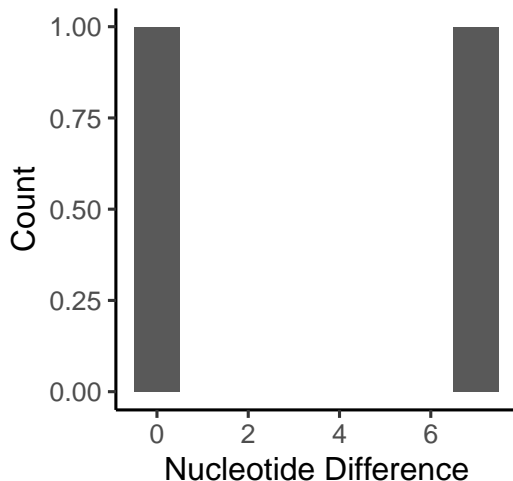
### TRBV18\*ap01

6562 sequences assigned  
6551 (99.8%) exact matches, in which:  
6551 unique CDR3  
13 unique J



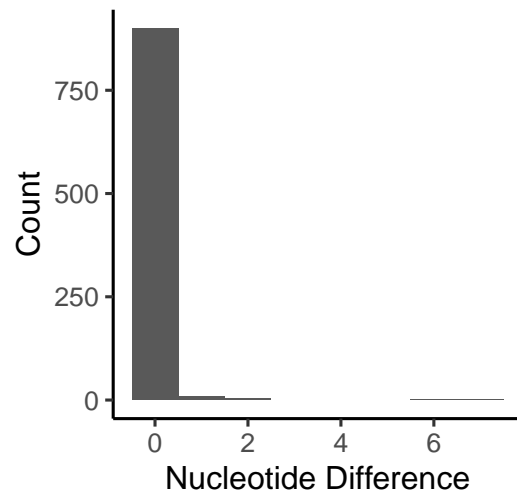
### TRBV26\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



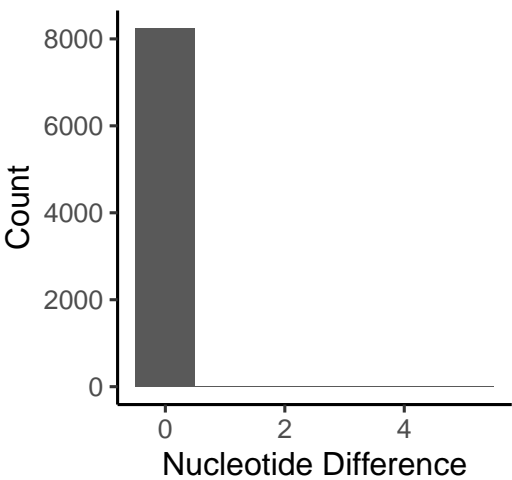
### TRBV30\*ap02

914 sequences assigned  
900 (98.5%) exact matches, in which:  
894 unique CDR3  
13 unique J



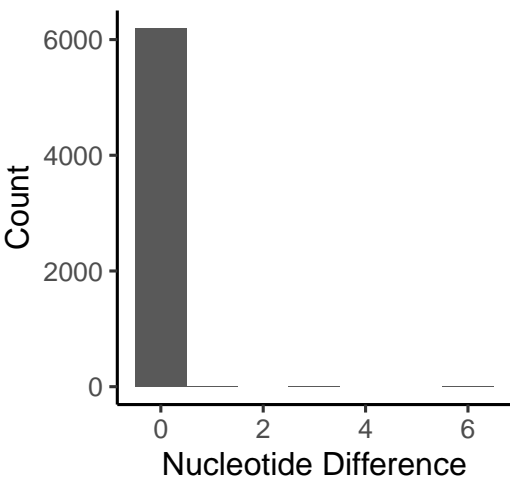
TRBV9\*ap01

8261 sequences assigned  
8241 (99.8%) exact matches, in which:  
8235 unique CDR3  
13 unique J



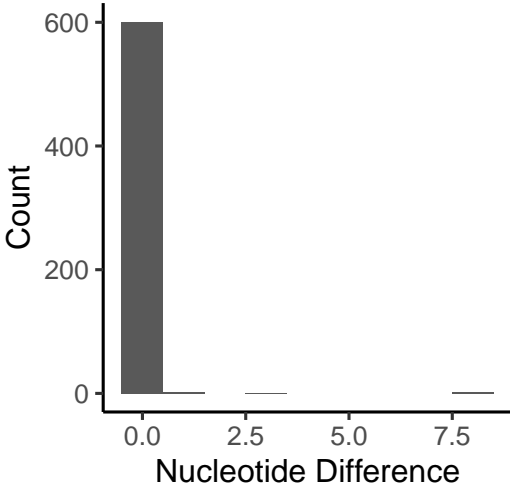
TRBV11-2\*ap01

6207 sequences assigned  
6193 (99.8%) exact matches, in which:  
6191 unique CDR3  
13 unique J



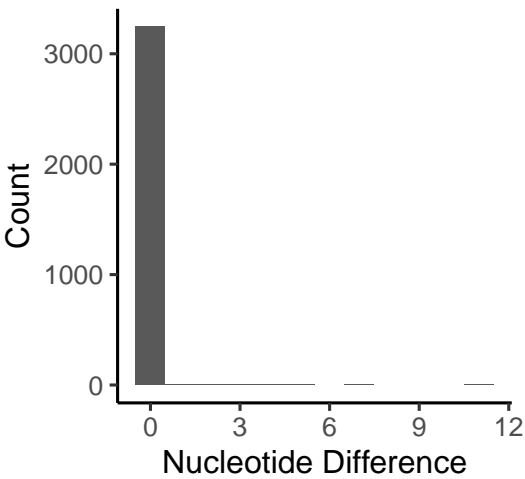
TRBV12-2\*ap01

606 sequences assigned  
601 (99.2%) exact matches, in which:  
601 unique CDR3  
13 unique J



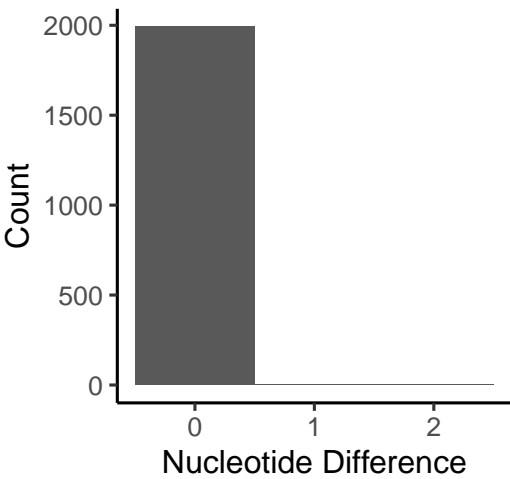
TRBV21-1\*ap01

3264 sequences assigned  
3245 (99.4%) exact matches, in which:  
3245 unique CDR3  
13 unique J



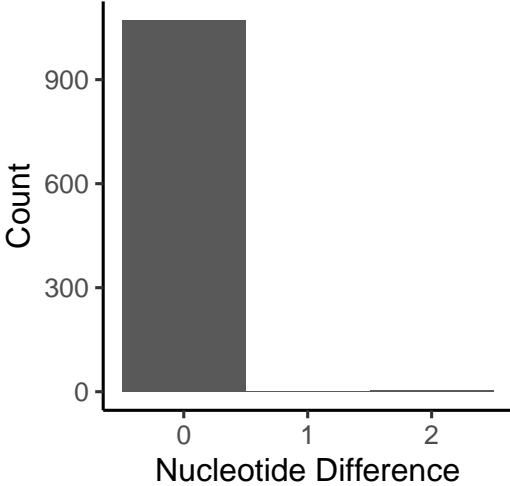
TRBV11-3\*ap01

1996 sequences assigned  
1992 (99.8%) exact matches, in which:  
1992 unique CDR3  
13 unique J



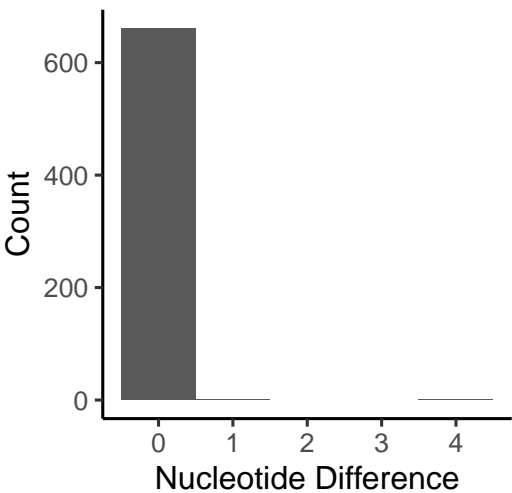
TRBV12-5\*ap01

1076 sequences assigned  
1072 (99.6%) exact matches, in which:  
1072 unique CDR3  
13 unique J



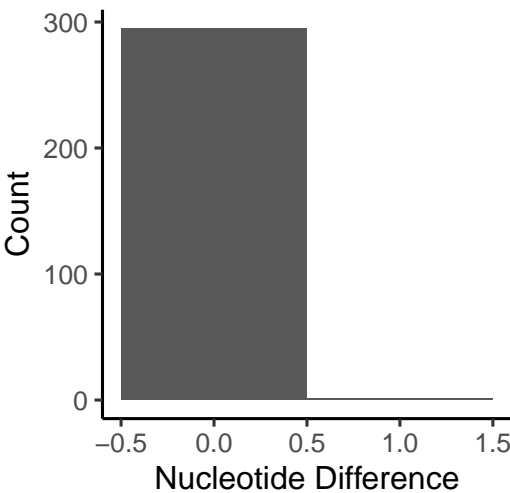
TRBV11-1\*ap01

663 sequences assigned  
661 (99.7%) exact matches, in which:  
660 unique CDR3  
13 unique J



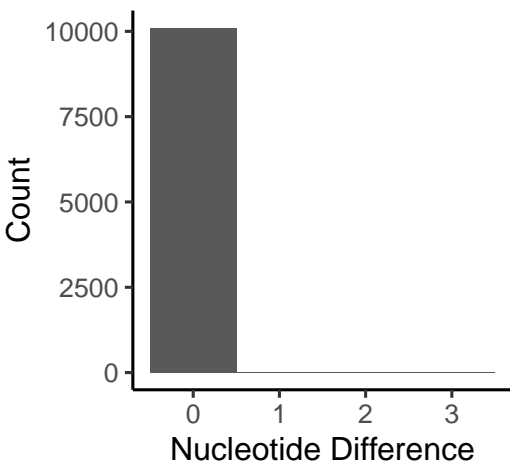
TRBV12-1\*ap01

296 sequences assigned  
295 (99.7%) exact matches, in which:  
295 unique CDR3  
13 unique J



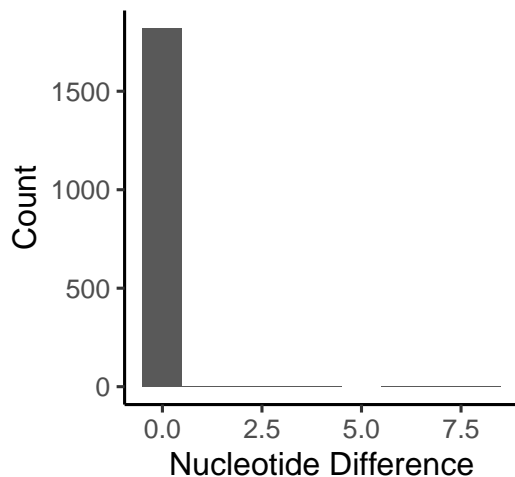
TRBV12-34\*ap01

10124 sequences assigned  
10104 (99.8%) exact matches, in which:  
10100 unique CDR3  
13 unique J



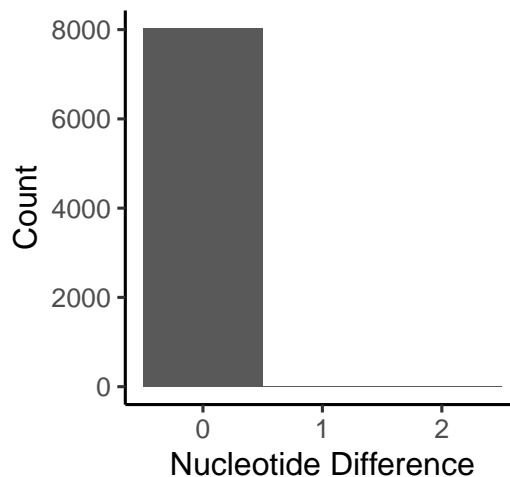
### TRBV23-1\*ap01

1826 sequences assigned  
1819 (99.6%) exact matches, in which:  
1819 unique CDR3  
13 unique J



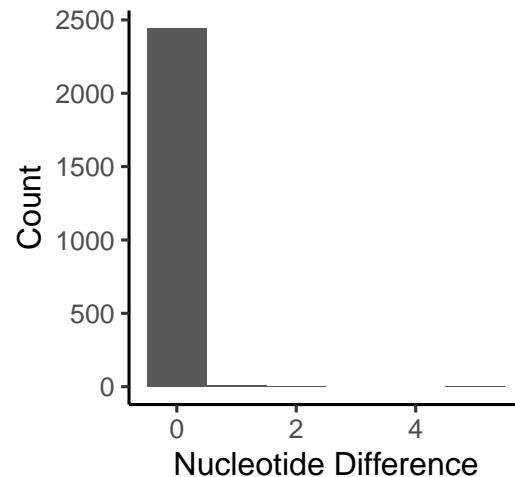
### TRBV4-1\*ap01

8040 sequences assigned  
8027 (99.8%) exact matches, in which:  
8025 unique CDR3  
13 unique J



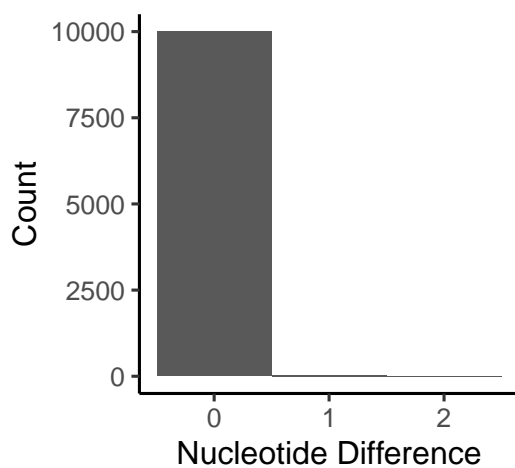
### TRBV25-1\*ap01

2457 sequences assigned  
2442 (99.4%) exact matches, in which:  
2435 unique CDR3  
13 unique J



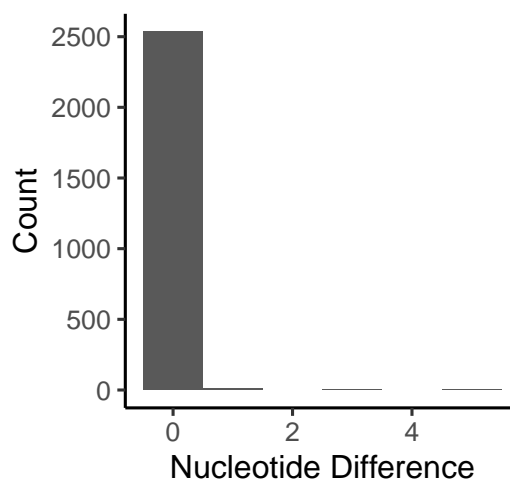
### TRBV3-12\*ap01

10048 sequences assigned  
10004 (99.6%) exact matches, in which:  
9965 unique CDR3  
13 unique J



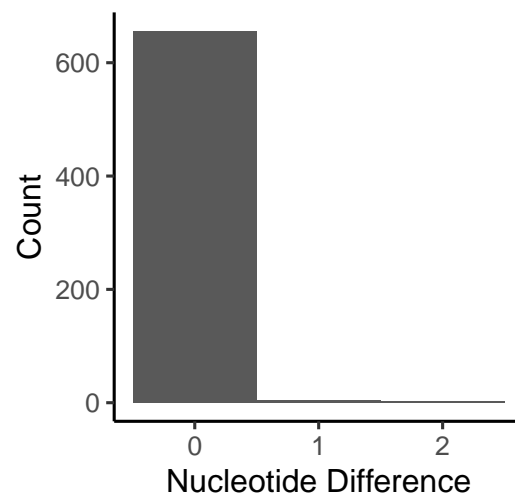
### TRBV4-2\*ap01

2551 sequences assigned  
2535 (99.4%) exact matches, in which:  
2535 unique CDR3  
13 unique J



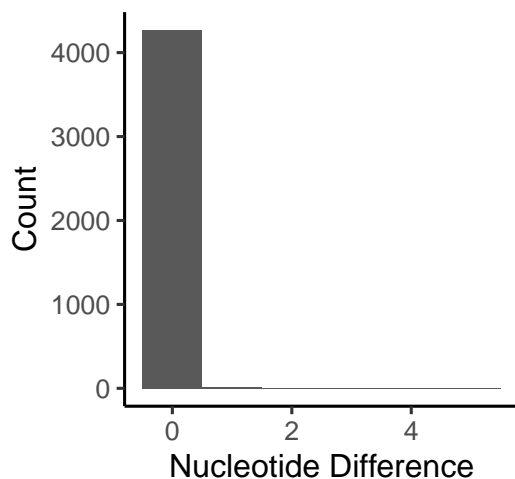
### TRBV5-3\*ap01

662 sequences assigned  
656 (99.1%) exact matches, in which:  
656 unique CDR3  
13 unique J



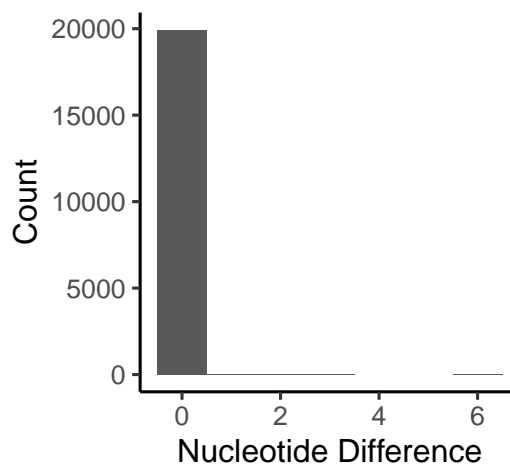
### TRBV24-1\*ap01

4287 sequences assigned  
4269 (99.6%) exact matches, in which:  
4256 unique CDR3  
13 unique J



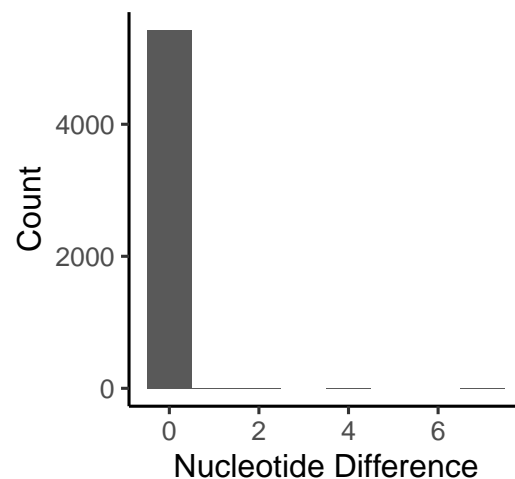
### TRBV5-1\*ap01

19988 sequences assigned  
19935 (99.7%) exact matches, in which:  
19894 unique CDR3  
13 unique J



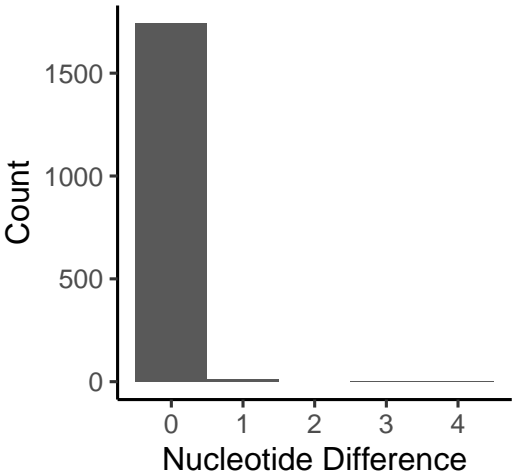
### TRBV5-4\*ap01

5440 sequences assigned  
5427 (99.8%) exact matches, in which:  
5426 unique CDR3  
13 unique J



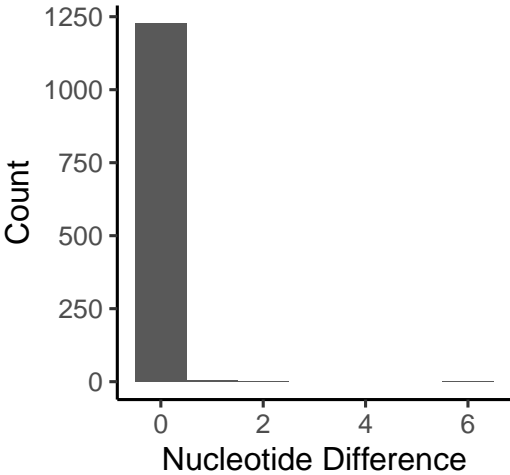
TRBV5-5\*ap01

1754 sequences assigned  
1742 (99.3%) exact matches, in which:  
1742 unique CDR3  
13 unique J



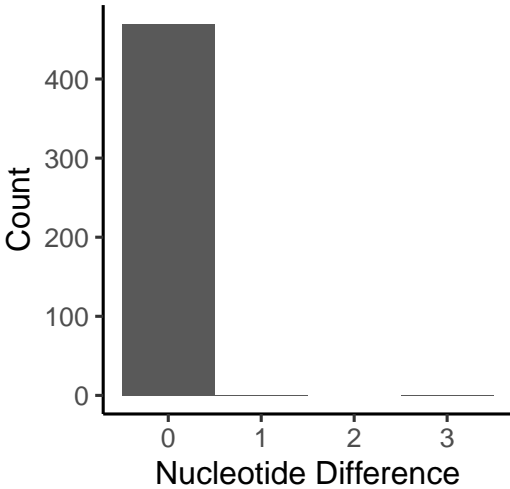
TRBV5-8\*ap01

1234 sequences assigned  
1227 (99.4%) exact matches, in which:  
1227 unique CDR3  
13 unique J



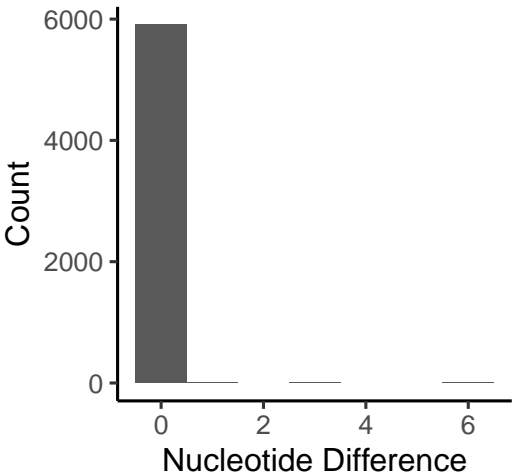
TRBV6-7\*ap01

472 sequences assigned  
470 (99.6%) exact matches, in which:  
469 unique CDR3  
14 unique J



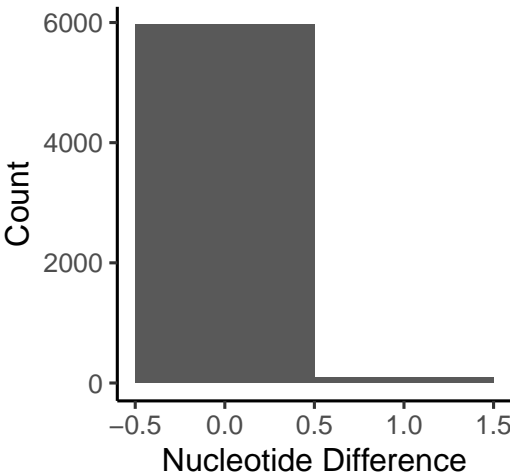
TRBV5-6\*ap01

5922 sequences assigned  
5907 (99.7%) exact matches, in which:  
5894 unique CDR3  
13 unique J



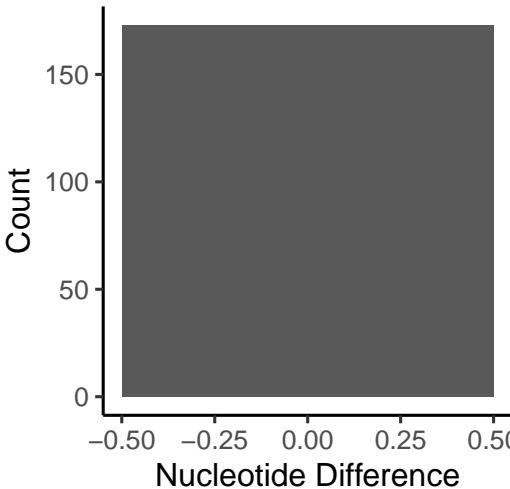
TRBV6-1\*ap01

6061 sequences assigned  
5963 (98.4%) exact matches, in which:  
5952 unique CDR3  
13 unique J



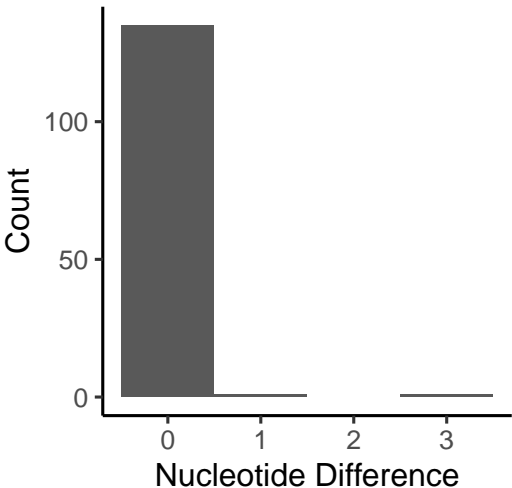
TRBV6-8\*ap01

173 sequences assigned  
173 (100%) exact matches, in which:  
172 unique CDR3  
13 unique J



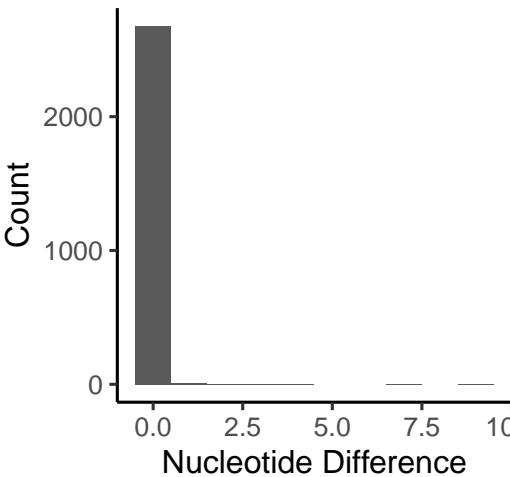
TRBV5-7\*ap01

137 sequences assigned  
135 (98.5%) exact matches, in which:  
135 unique CDR3  
12 unique J



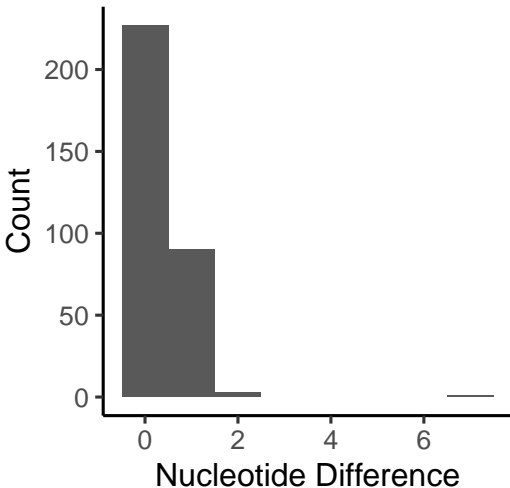
TRBV6-4\*ap01

2690 sequences assigned  
2677 (99.5%) exact matches, in which:  
2677 unique CDR3  
13 unique J



TRBV6-9\*ap01

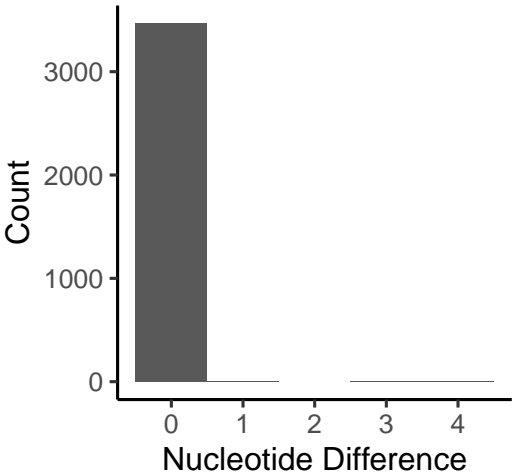
321 sequences assigned  
227 (70.7%) exact matches, in which:  
227 unique CDR3  
13 unique J





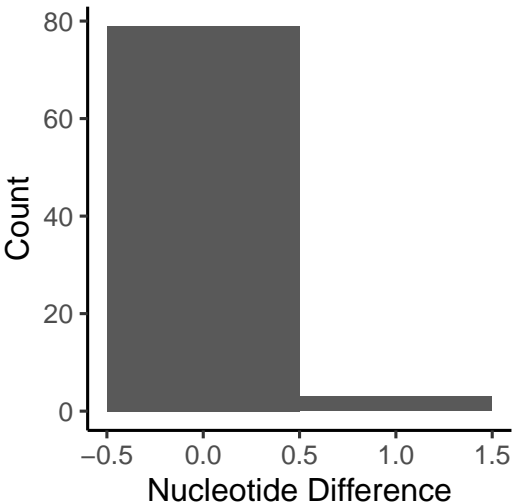
TRBV6-23\*ap01

3479 sequences assigned  
3467 (99.7%) exact matches, in which:  
3448 unique CDR3  
13 unique J



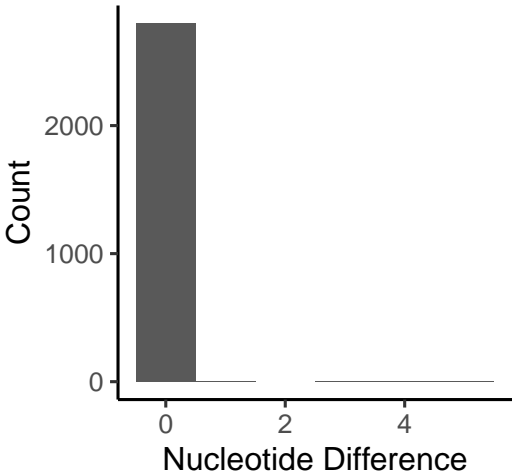
TRBV7-1\*ap01\_G291C\_T

82 sequences assigned  
79 (96.3%) exact matches, in which:  
79 unique CDR3  
13 unique J



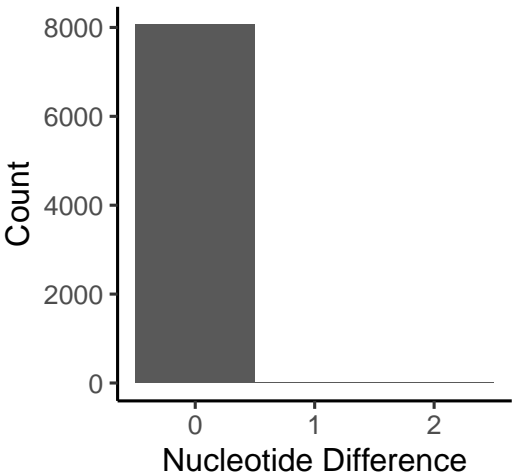
TRBV7-3\*ap01

2808 sequences assigned  
2798 (99.6%) exact matches, in which:  
2794 unique CDR3  
12 unique J



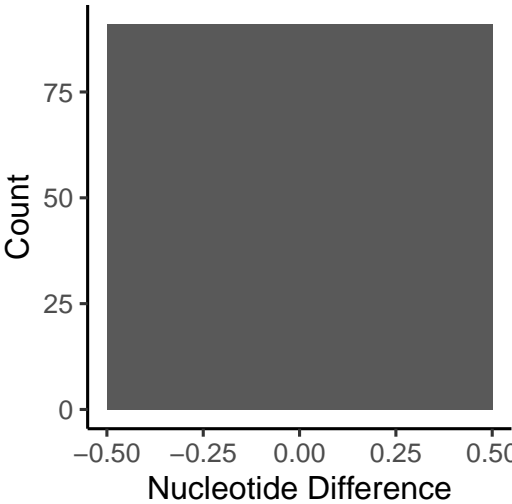
TRBV6-56\*ap01

8083 sequences assigned  
8061 (99.7%) exact matches, in which:  
8047 unique CDR3  
13 unique J



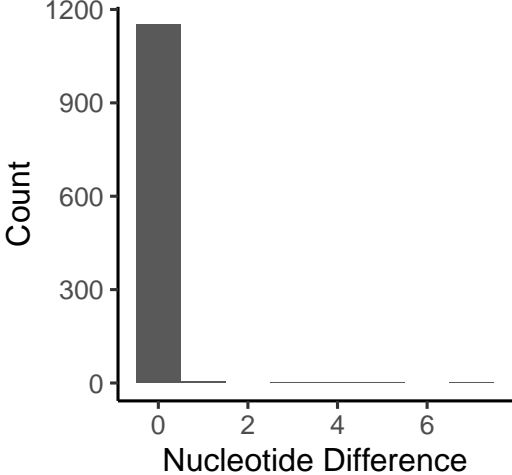
TRBV7-1\*ap01\_G291C\_T

91 sequences assigned  
91 (100%) exact matches, in which:  
91 unique CDR3  
11 unique J



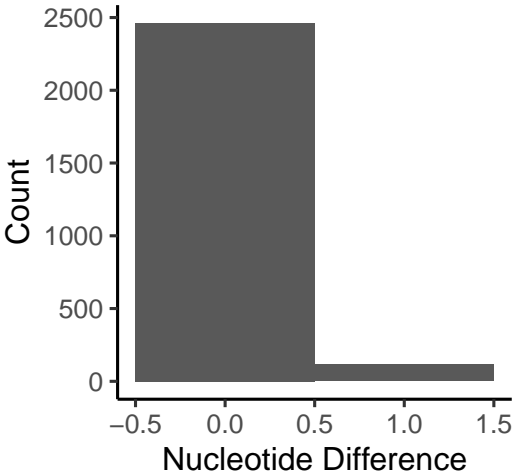
TRBV7-3\*ap03

1160 sequences assigned  
1151 (99.2%) exact matches, in which:  
1150 unique CDR3  
13 unique J



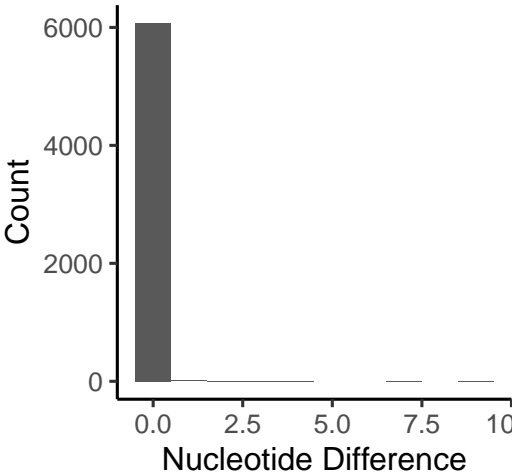
TRBV6-56\*ap02

2578 sequences assigned  
2462 (95.5%) exact matches, in which:  
2457 unique CDR3  
13 unique J



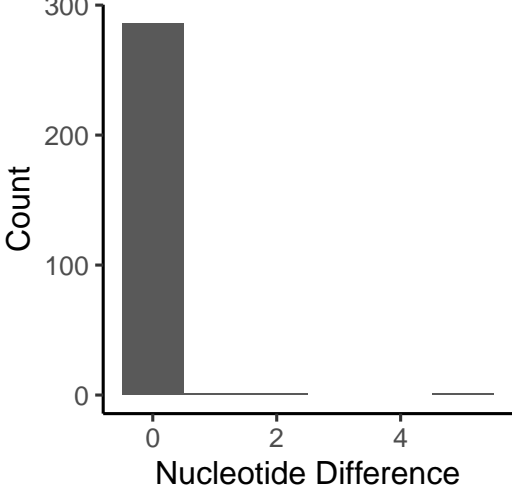
TRBV7-2\*ap01

6093 sequences assigned  
6074 (99.7%) exact matches, in which:  
6074 unique CDR3  
13 unique J



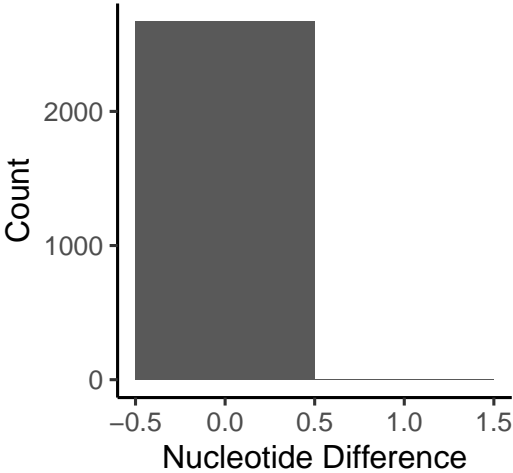
TRBV7-4\*ap01

289 sequences assigned  
286 (99%) exact matches, in which:  
286 unique CDR3  
13 unique J



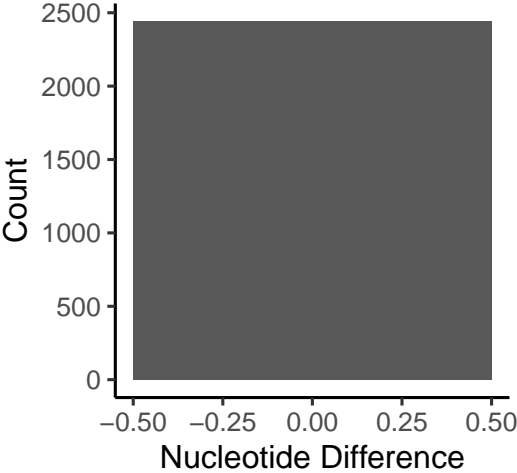
TRBV7-6\*ap01

2674 sequences assigned  
2671 (99.9%) exact matches, in which:  
2671 unique CDR3  
13 unique J



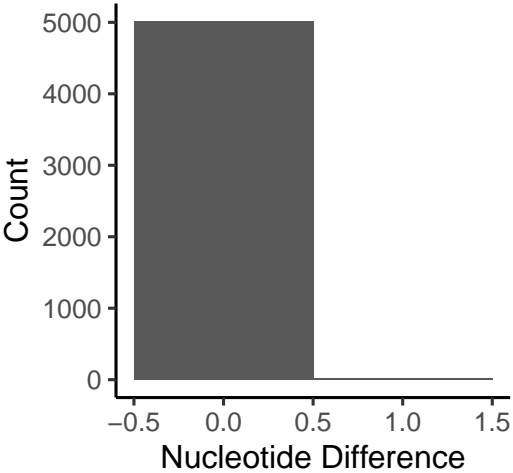
TRBV7-8\*ap01

2441 sequences assigned  
2441 (100%) exact matches, in which:  
2441 unique CDR3  
13 unique J



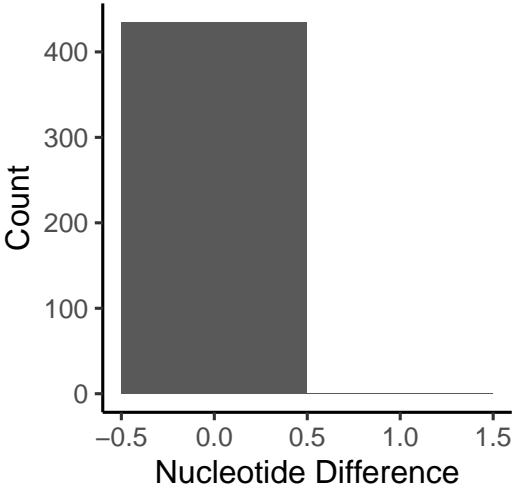
TRBV29-1\*ap01

5027 sequences assigned  
5013 (99.7%) exact matches, in which:  
4996 unique CDR3  
13 unique J



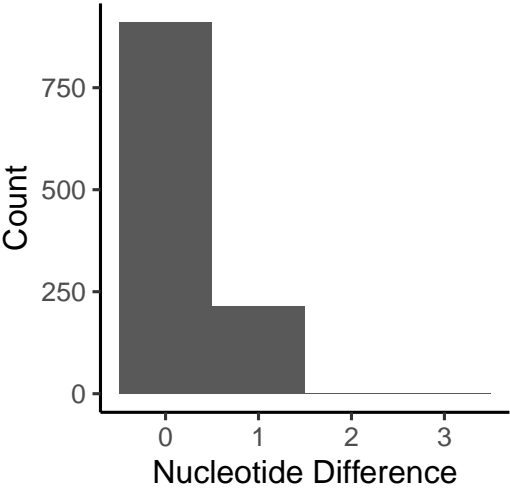
TRBV7-7\*ap01

436 sequences assigned  
435 (99.8%) exact matches, in which:  
435 unique CDR3  
13 unique J



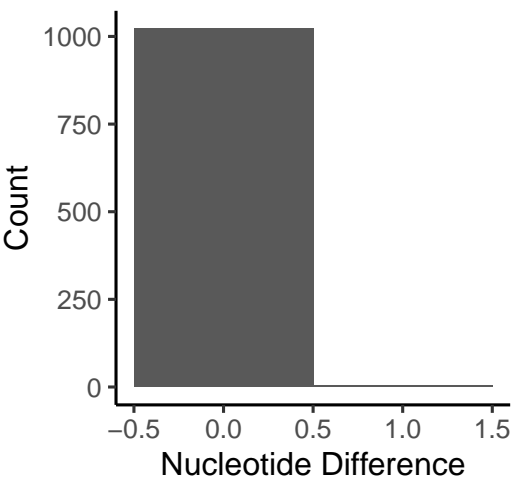
TRBV7-8\*ap03

1127 sequences assigned  
911 (80.8%) exact matches, in which:  
911 unique CDR3  
13 unique J



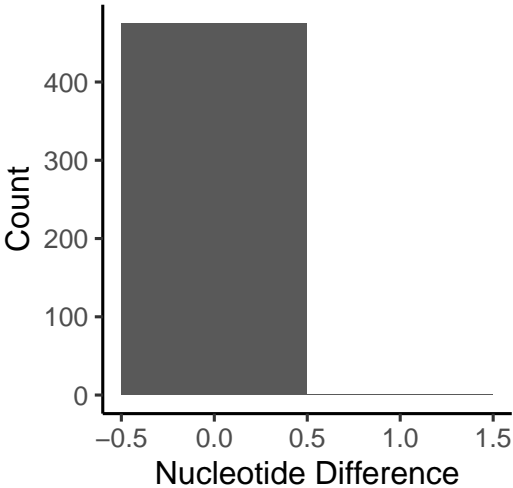
TRBV29-1\*ap02

1026 sequences assigned  
1022 (99.6%) exact matches, in which:  
1020 unique CDR3  
13 unique J



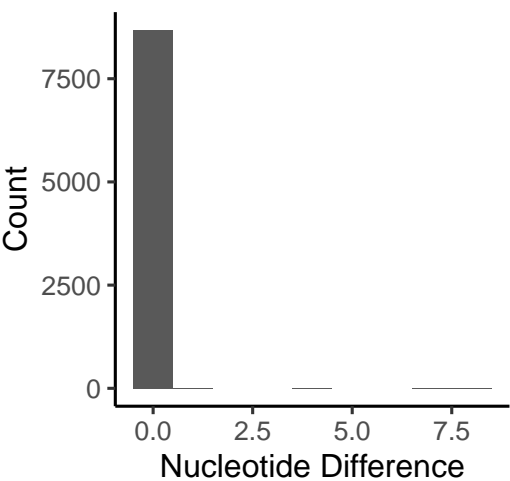
TRBV7-7\*ap01\_C315T

476 sequences assigned  
475 (99.8%) exact matches, in which:  
474 unique CDR3  
13 unique J

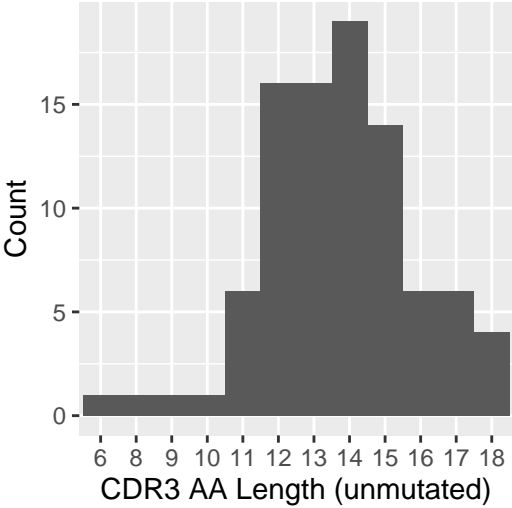


TRBV7-9\*ap01

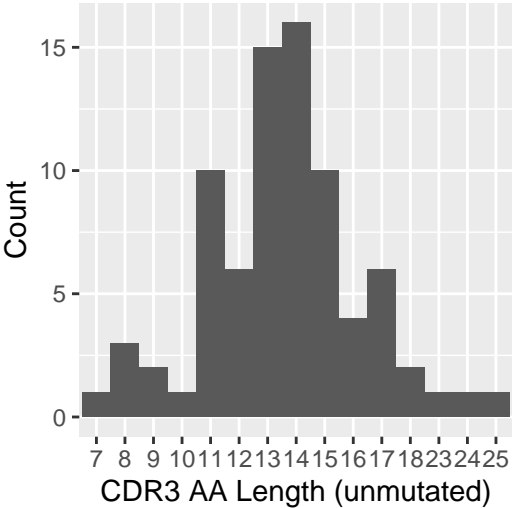
8689 sequences assigned  
8679 (99.9%) exact matches, in which:  
8678 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

