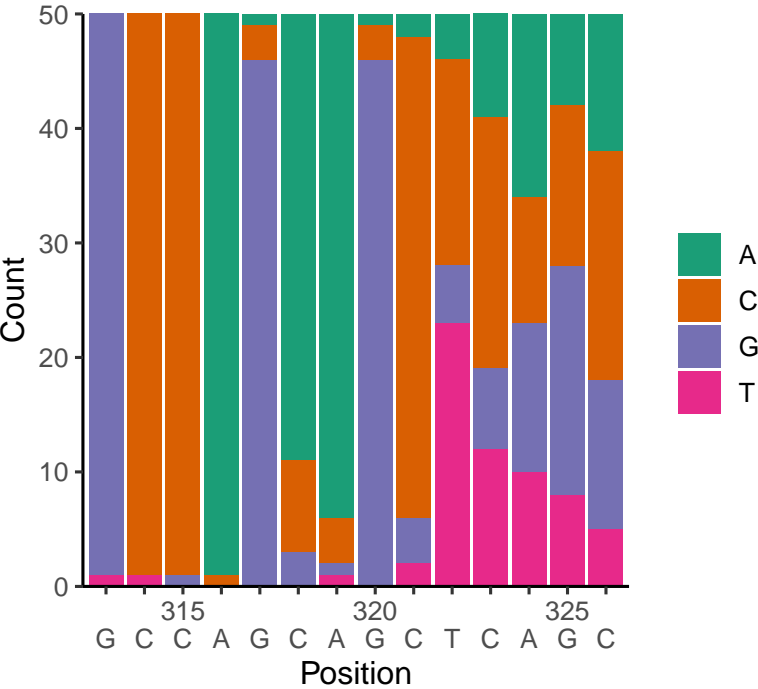
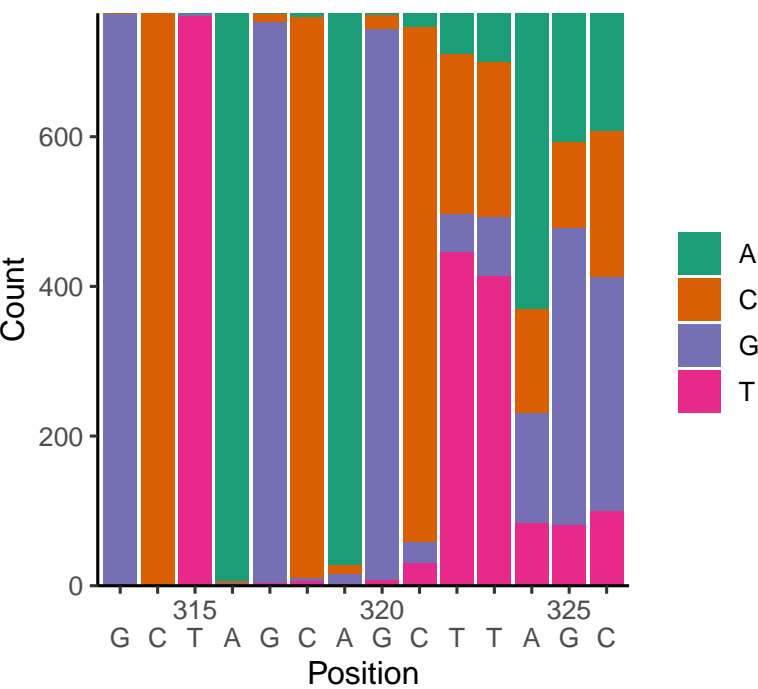


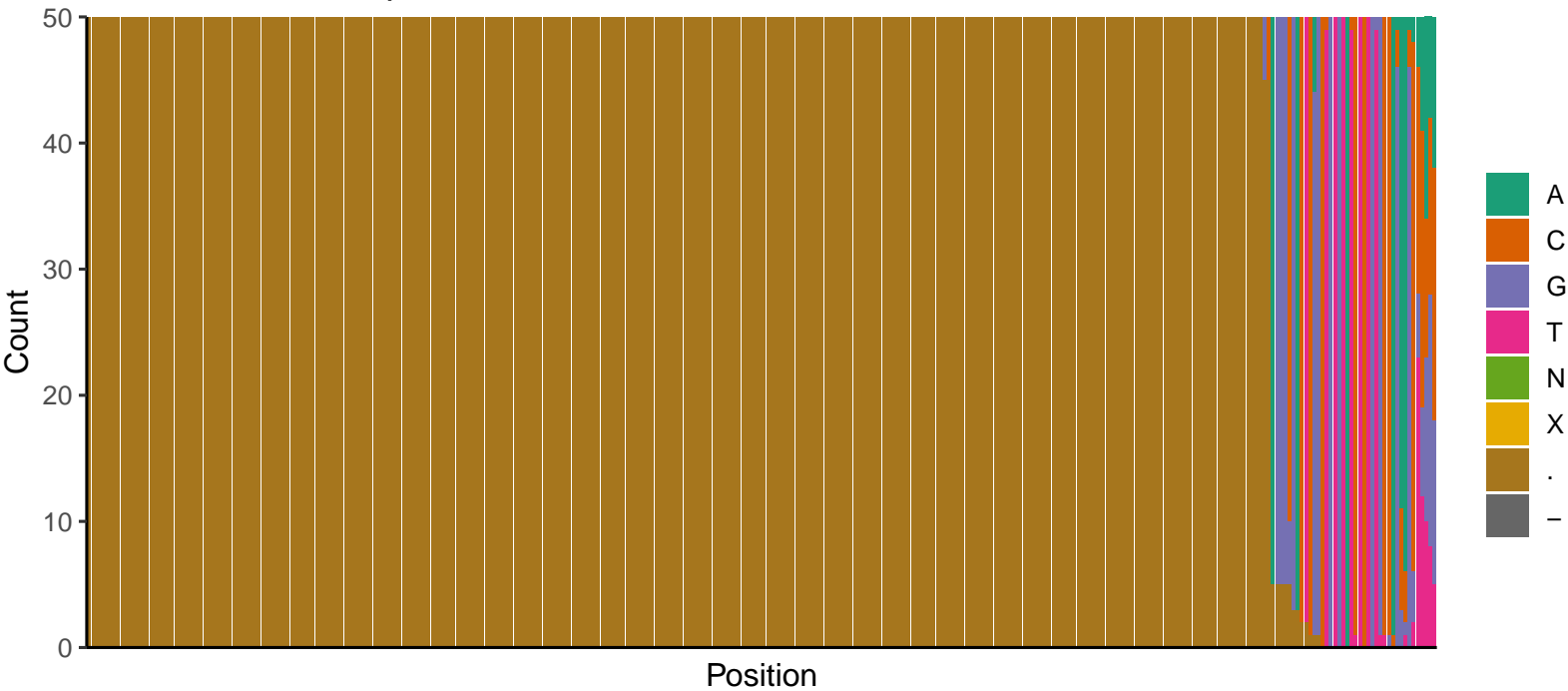
Gene TRBV7-1\*ap01\_T296C



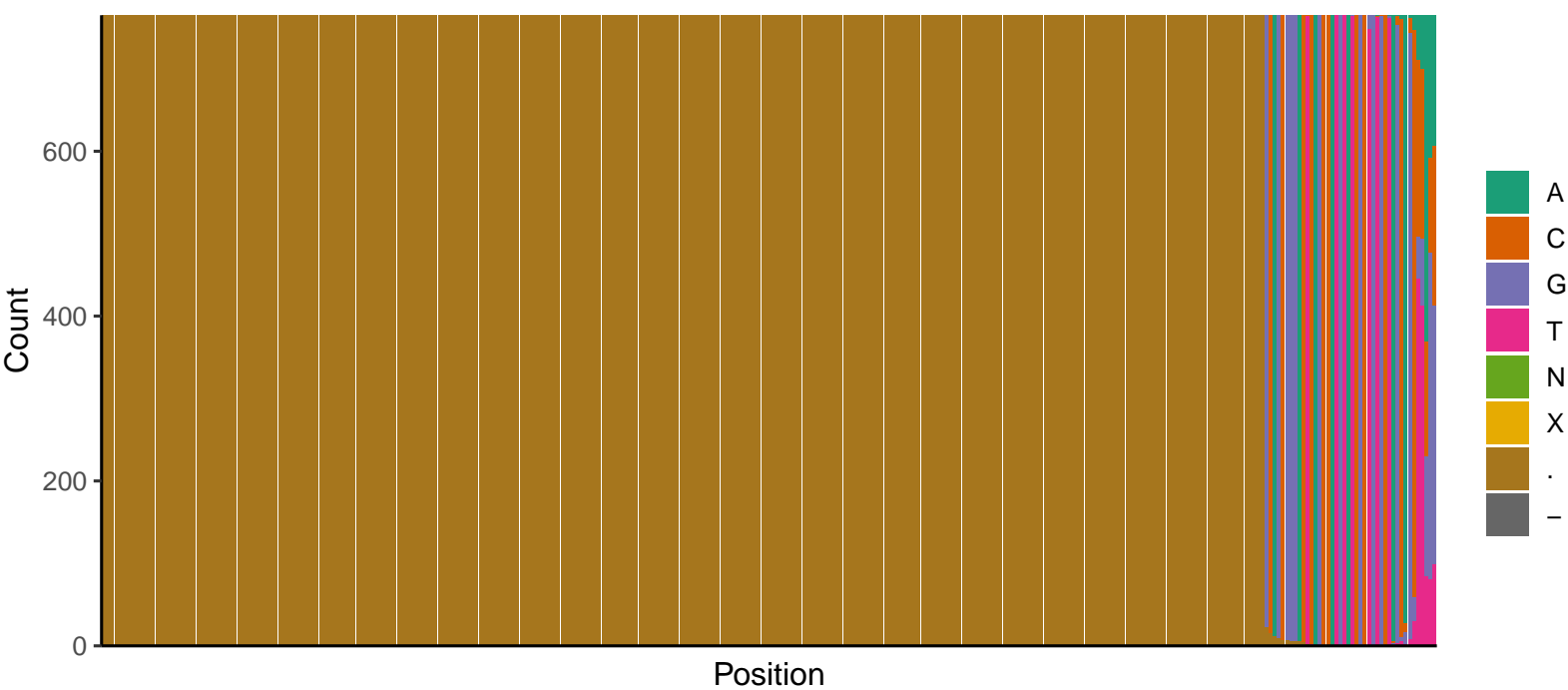
Gene TRBV7-7\*ap01\_C315T



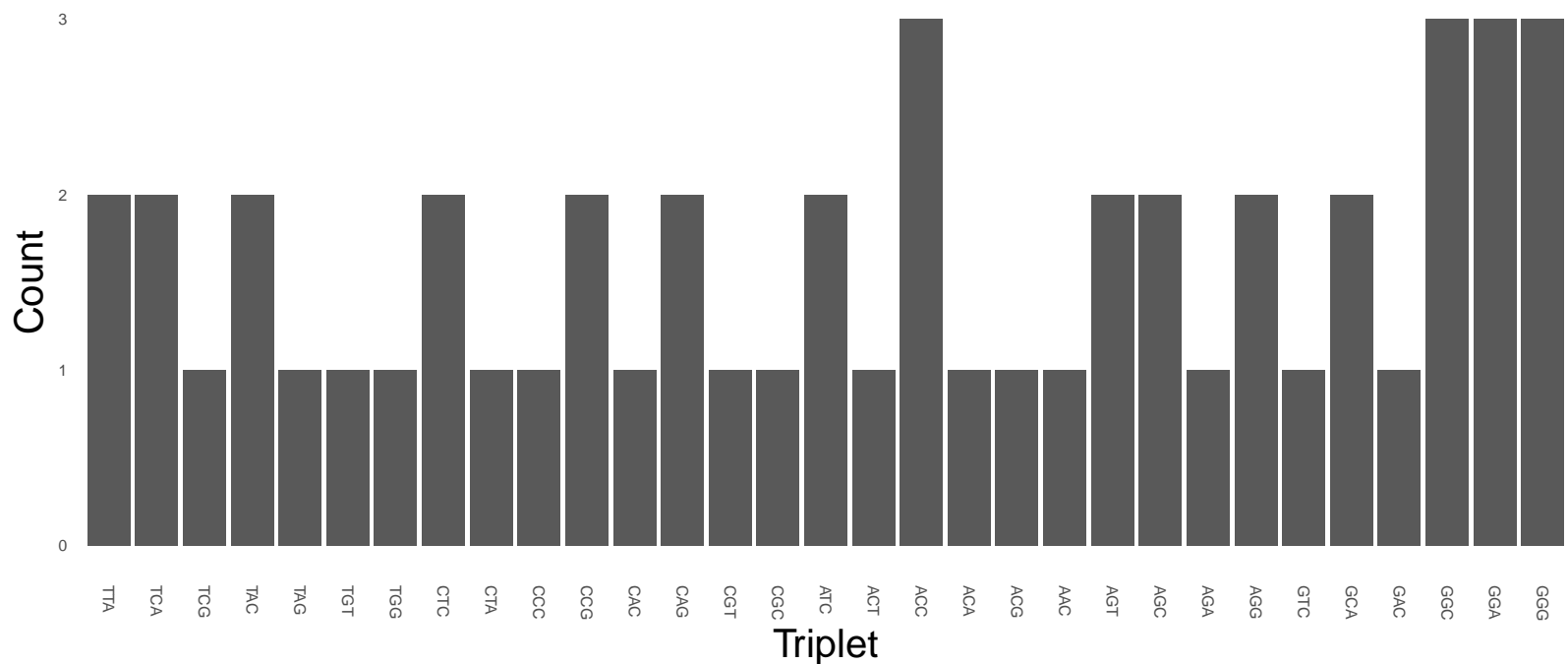
Gene TRBV7-1\*ap01\_T296C



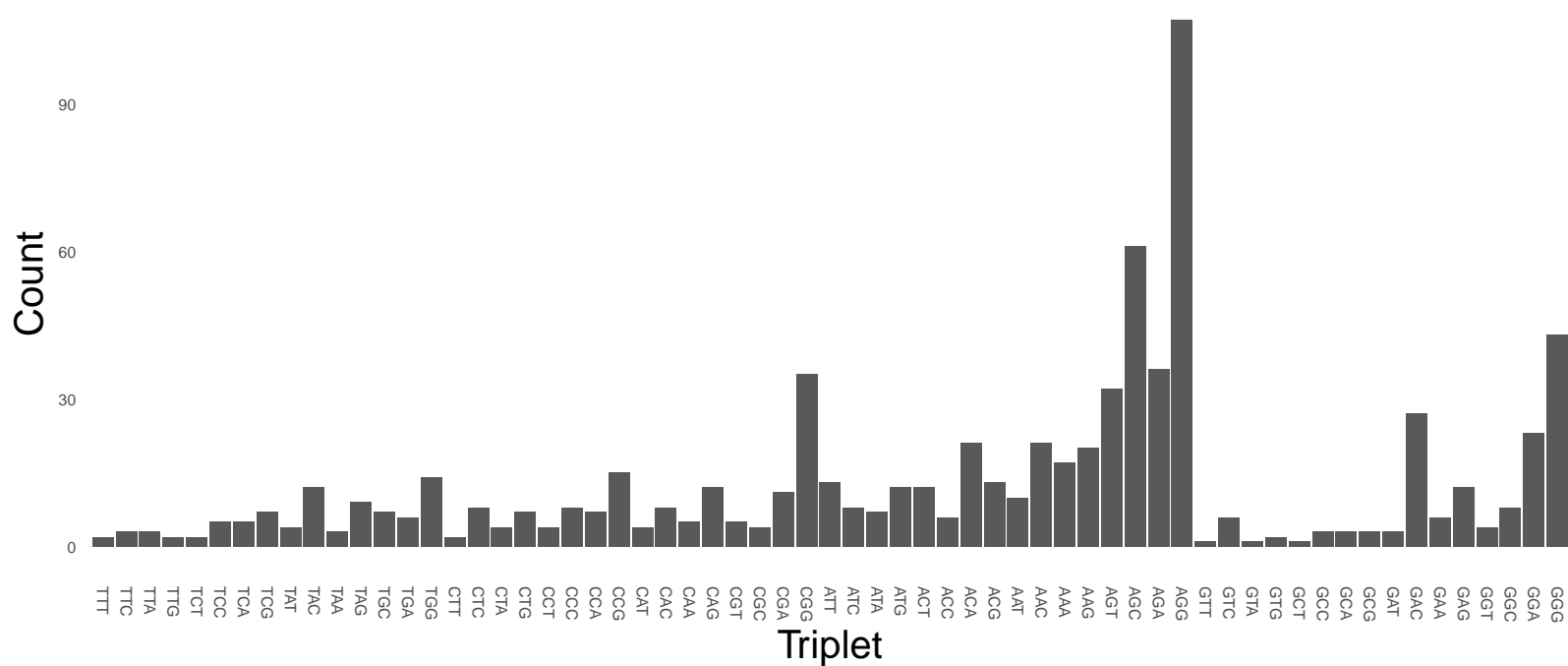
Gene TRBV7-7\*ap01\_C315T



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

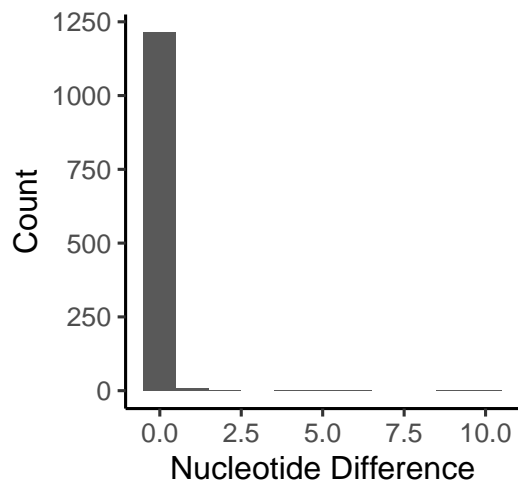


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



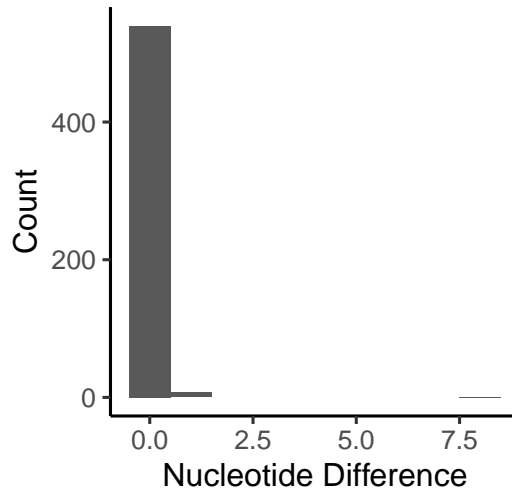
### TRBV10-1\*ap01

1231 sequences assigned  
1214 (98.6%) exact matches, in which:  
1209 unique CDR3  
13 unique J



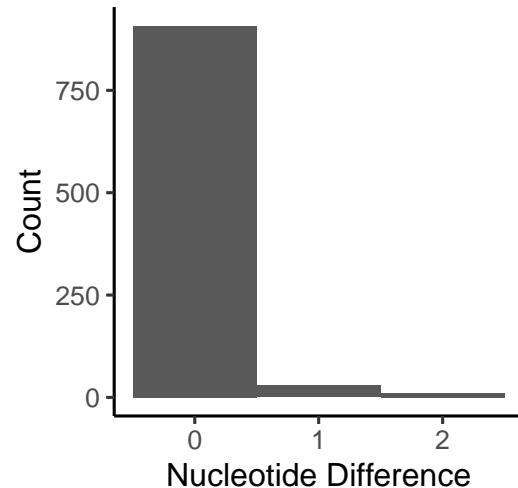
### TRBV10-2\*ap01

548 sequences assigned  
540 (98.5%) exact matches, in which:  
537 unique CDR3  
13 unique J



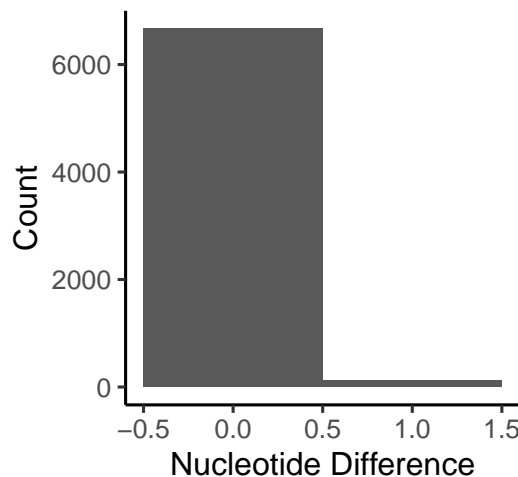
### TRBV13\*ap01

947 sequences assigned  
908 (95.9%) exact matches, in which:  
891 unique CDR3  
13 unique J



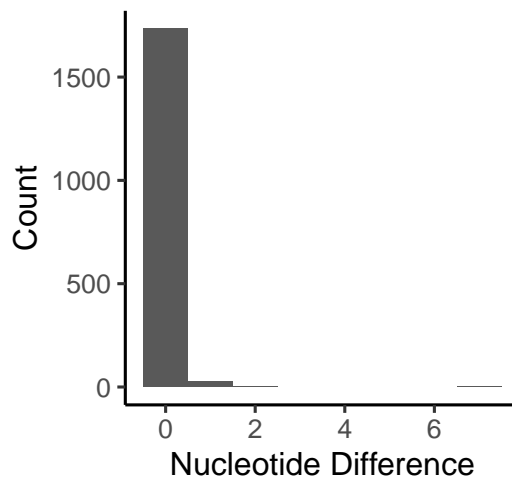
### TRBV20-1\*ap01

6786 sequences assigned  
6667 (98.2%) exact matches, in which:  
6507 unique CDR3  
13 unique J



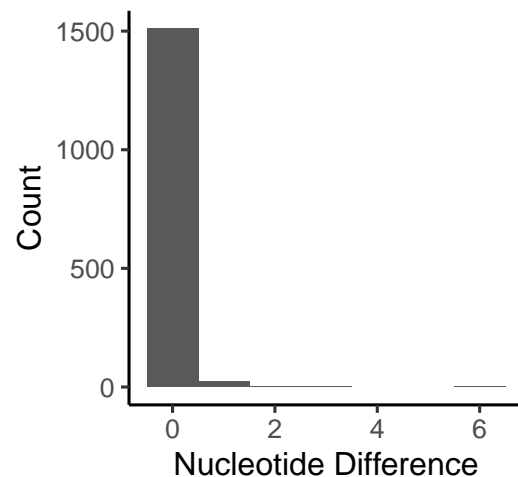
### TRBV10-3\*ap01

1767 sequences assigned  
1734 (98.1%) exact matches, in which:  
1719 unique CDR3  
13 unique J



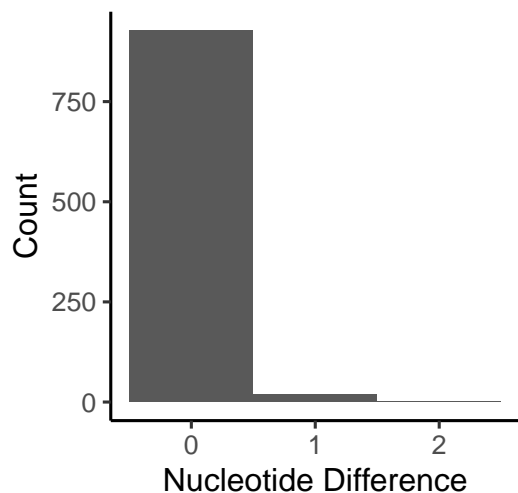
### TRBV14\*ap01

1537 sequences assigned  
1510 (98.2%) exact matches, in which:  
1495 unique CDR3  
13 unique J



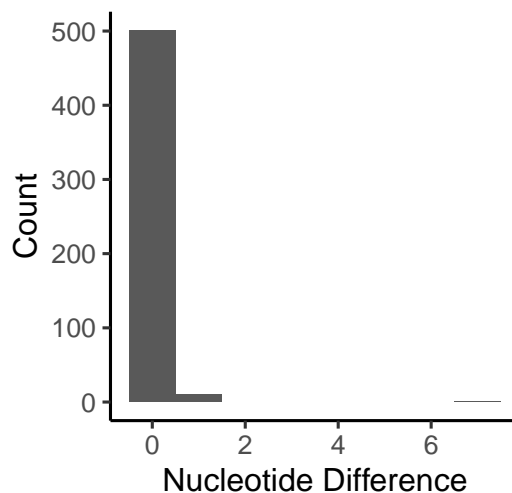
### TRBV20-1\*ap02

948 sequences assigned  
928 (97.9%) exact matches, in which:  
905 unique CDR3  
13 unique J



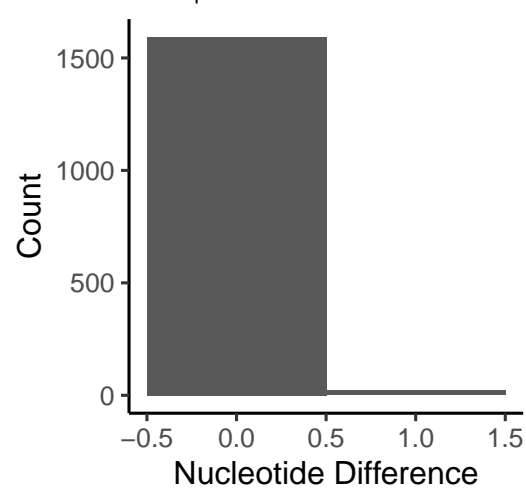
### TRBV1\*ap01

512 sequences assigned  
501 (97.9%) exact matches, in which:  
493 unique CDR3  
13 unique J



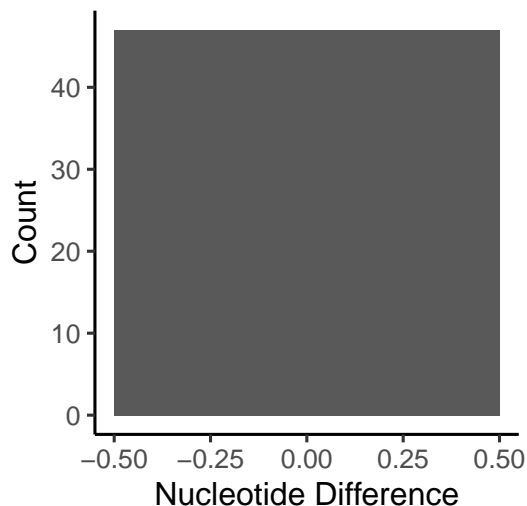
### TRBV15\*ap02

1615 sequences assigned  
1593 (98.6%) exact matches, in which:  
1580 unique CDR3  
13 unique J



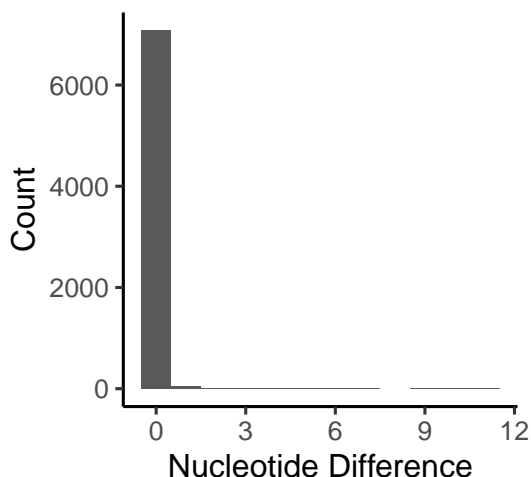
### TRBV16\*ap01

47 sequences assigned  
47 (100%) exact matches, in which:  
47 unique CDR3  
11 unique J



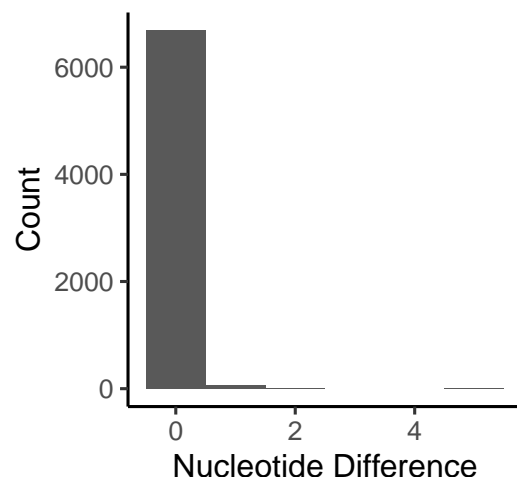
### TRBV19\*ap01

7147 sequences assigned  
7080 (99.1%) exact matches, in which:  
7004 unique CDR3  
13 unique J



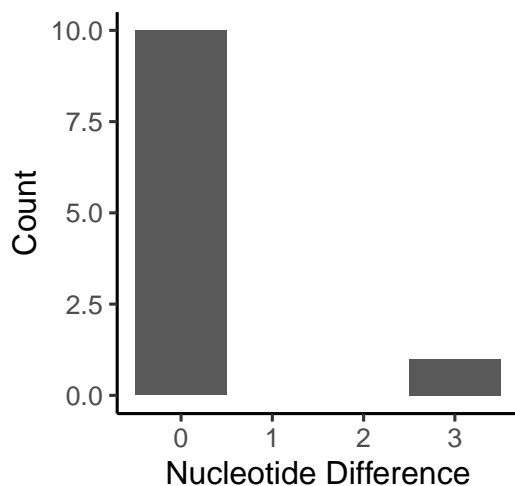
### TRBV28\*ap01

6745 sequences assigned  
6687 (99.1%) exact matches, in which:  
6613 unique CDR3  
13 unique J



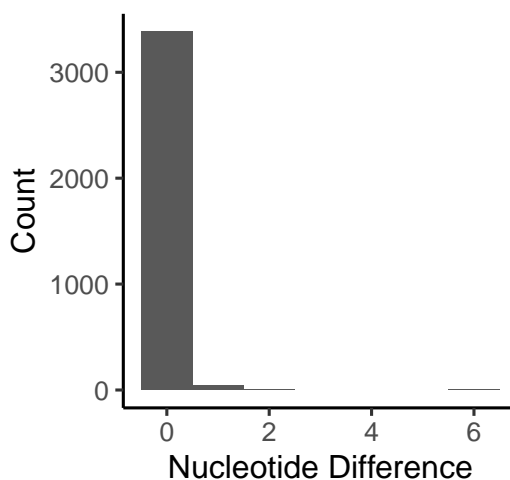
### TRBV17\*ap01

11 sequences assigned  
10 (90.9%) exact matches, in which:  
10 unique CDR3  
7 unique J



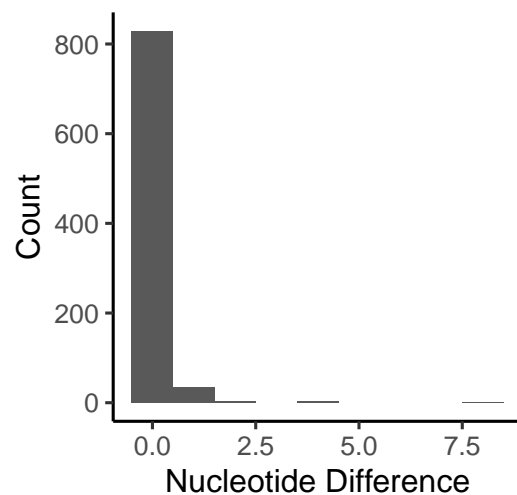
### TRBV2\*ap01

3429 sequences assigned  
3383 (98.7%) exact matches, in which:  
3360 unique CDR3  
14 unique J



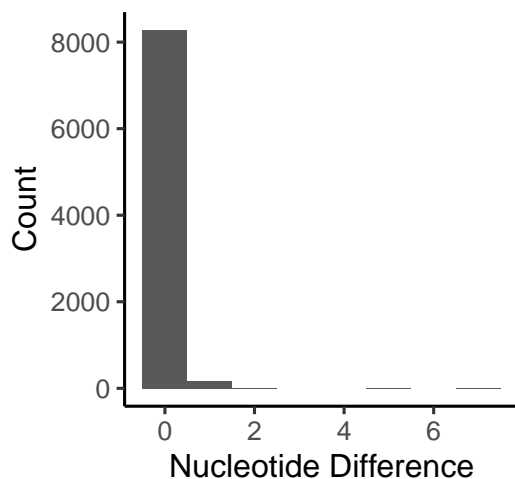
### TRBV30\*ap02

871 sequences assigned  
829 (95.2%) exact matches, in which:  
794 unique CDR3  
13 unique J



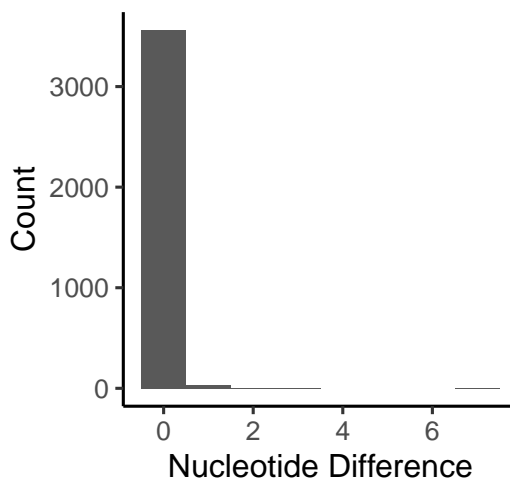
### TRBV18\*ap01

8447 sequences assigned  
8279 (98%) exact matches, in which:  
8107 unique CDR3  
13 unique J



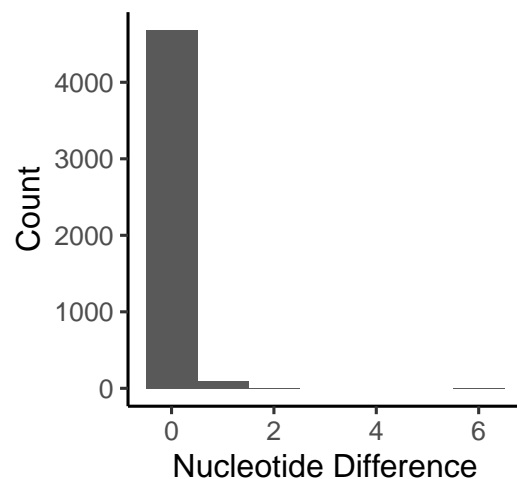
### TRBV27\*ap01

3599 sequences assigned  
3562 (99%) exact matches, in which:  
3536 unique CDR3  
13 unique J



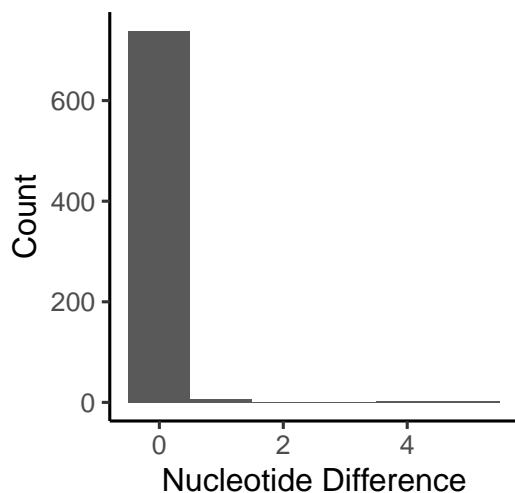
### TRBV9\*ap01

4781 sequences assigned  
4683 (98%) exact matches, in which:  
4639 unique CDR3  
13 unique J



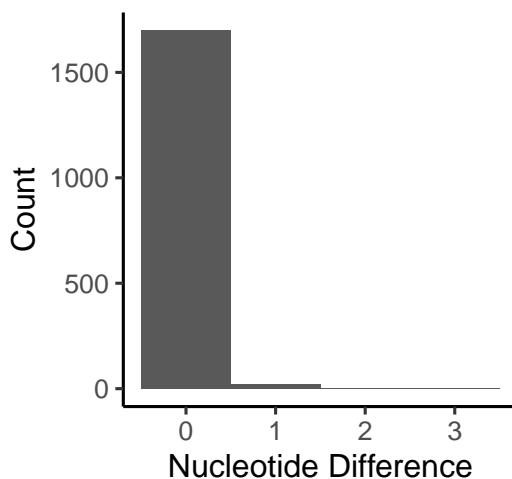
### TRBV21-1\*ap01

751 sequences assigned  
739 (98.4%) exact matches, in which:  
738 unique CDR3  
13 unique J



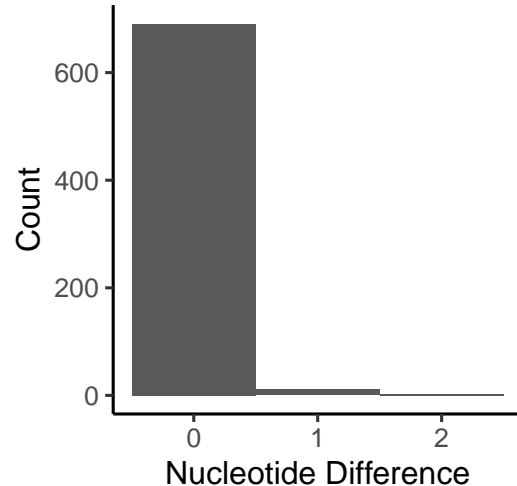
### TRBV11-3\*ap01

1724 sequences assigned  
1699 (98.5%) exact matches, in which:  
1686 unique CDR3  
13 unique J



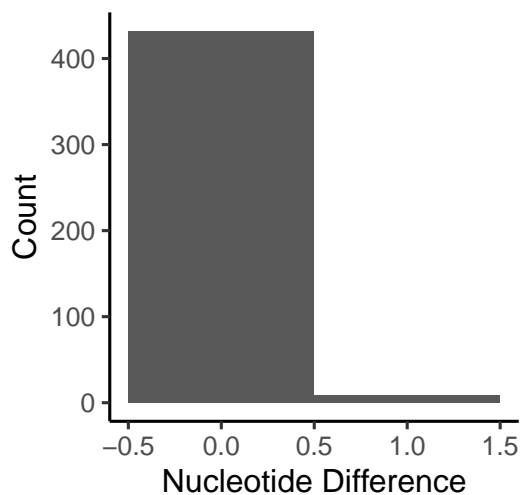
### TRBV12-5\*ap01

704 sequences assigned  
691 (98.2%) exact matches, in which:  
687 unique CDR3  
13 unique J



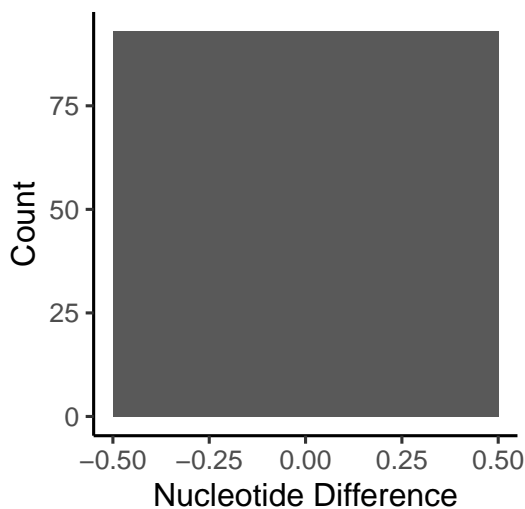
### TRBV11-1\*ap01

441 sequences assigned  
432 (98%) exact matches, in which:  
429 unique CDR3  
13 unique J



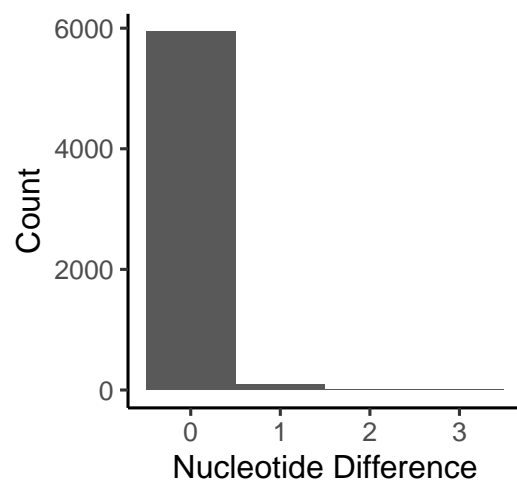
### TRBV12-1\*ap01

93 sequences assigned  
93 (100%) exact matches, in which:  
93 unique CDR3  
11 unique J



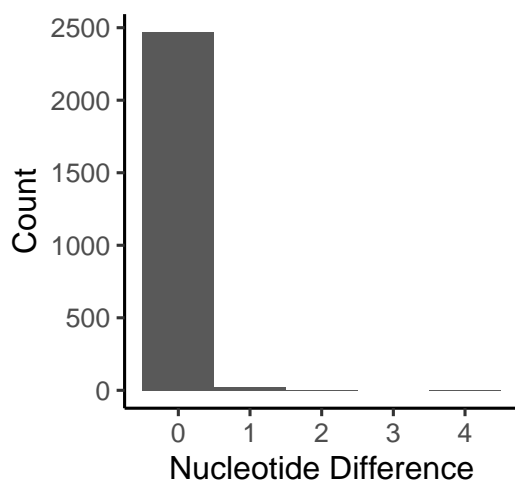
### TRBV12-34\*ap01

6039 sequences assigned  
5941 (98.4%) exact matches, in which:  
5870 unique CDR3  
13 unique J



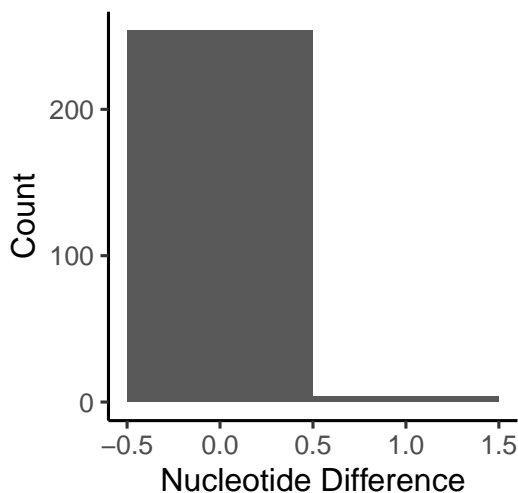
### TRBV11-2\*ap01

2497 sequences assigned  
2470 (98.9%) exact matches, in which:  
2450 unique CDR3  
13 unique J



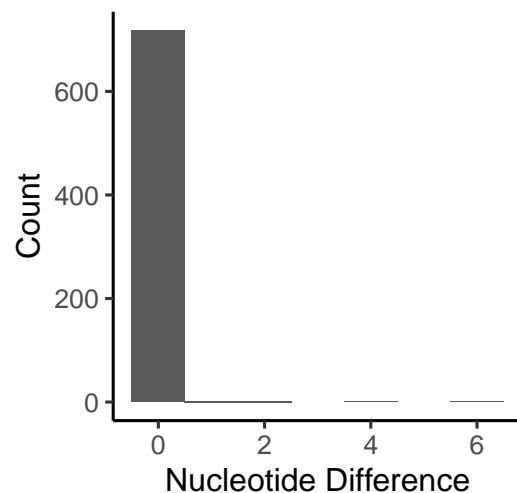
### TRBV12-2\*ap01

258 sequences assigned  
254 (98.4%) exact matches, in which:  
252 unique CDR3  
13 unique J



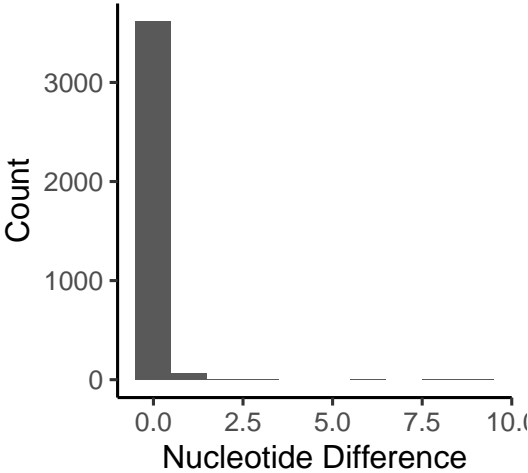
### TRBV23-1\*ap01

724 sequences assigned  
718 (99.2%) exact matches, in which:  
716 unique CDR3  
13 unique J



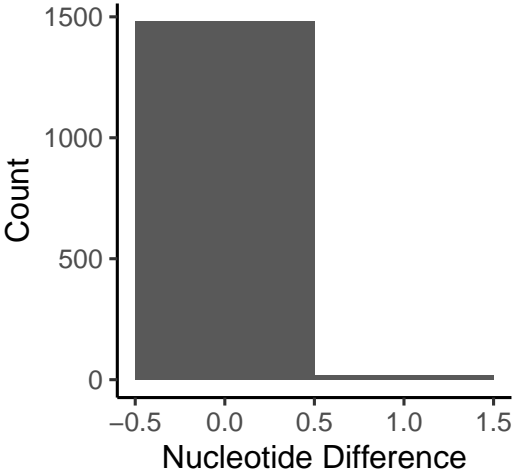
TRBV3-12\*ap01

3687 sequences assigned  
3616 (98.1%) exact matches, in which:  
3583 unique CDR3  
13 unique J



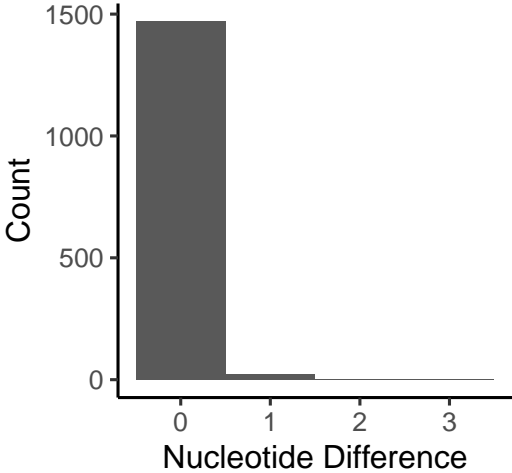
TRBV4-2\*ap01

1500 sequences assigned  
1481 (98.7%) exact matches, in which:  
1454 unique CDR3  
13 unique J



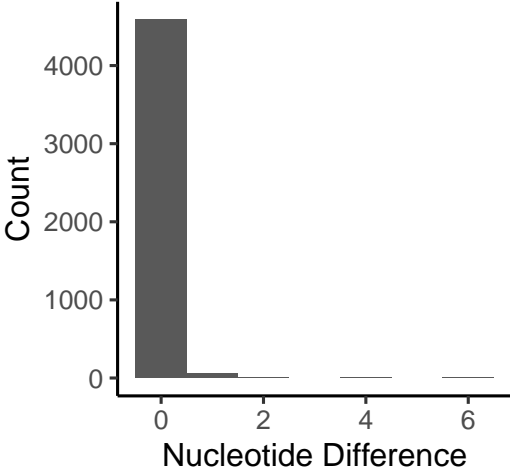
TRBV25-1\*ap01

1493 sequences assigned  
1470 (98.5%) exact matches, in which:  
1453 unique CDR3  
13 unique J



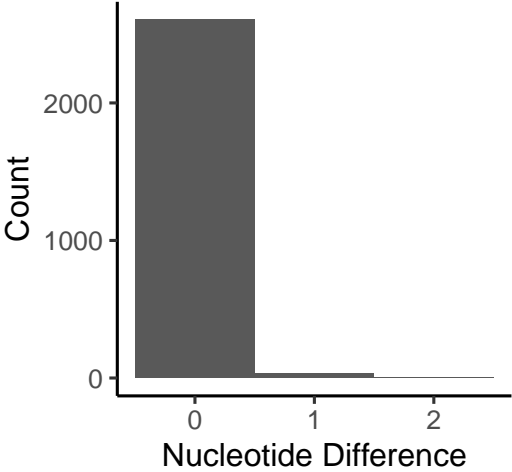
TRBV24-1\*ap01

4653 sequences assigned  
4587 (98.6%) exact matches, in which:  
4529 unique CDR3  
13 unique J



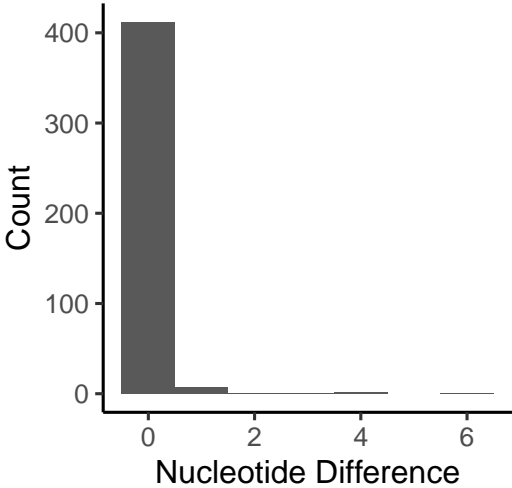
TRBV4-3\*ap01

2638 sequences assigned  
2605 (98.7%) exact matches, in which:  
2565 unique CDR3  
13 unique J



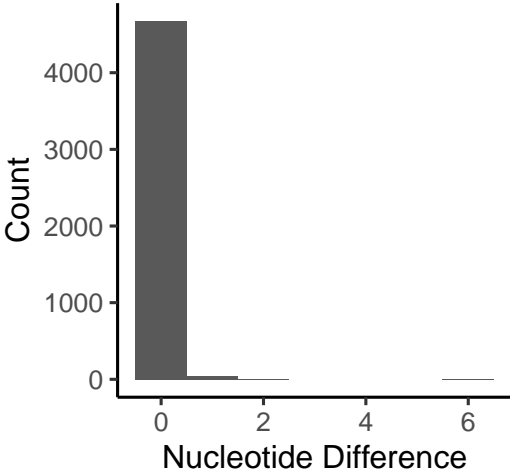
TRBV5-3\*ap01

424 sequences assigned  
412 (97.2%) exact matches, in which:  
409 unique CDR3  
13 unique J



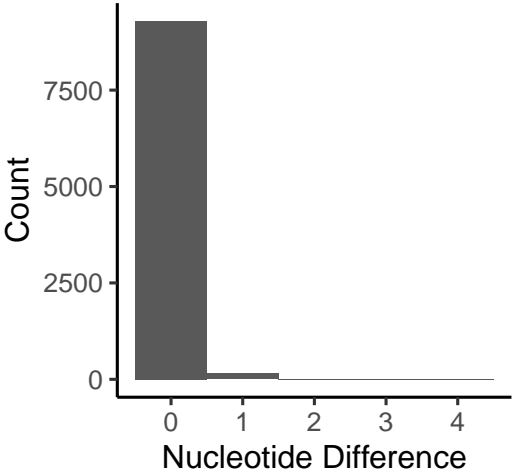
TRBV4-1\*ap01

4722 sequences assigned  
4674 (99%) exact matches, in which:  
4606 unique CDR3  
13 unique J



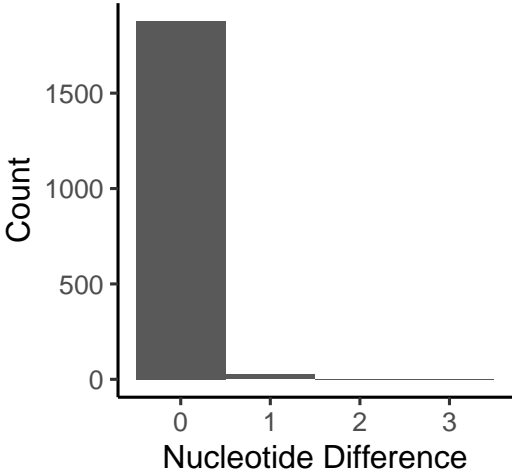
TRBV5-1\*ap01

9453 sequences assigned  
9291 (98.3%) exact matches, in which:  
9121 unique CDR3  
13 unique J



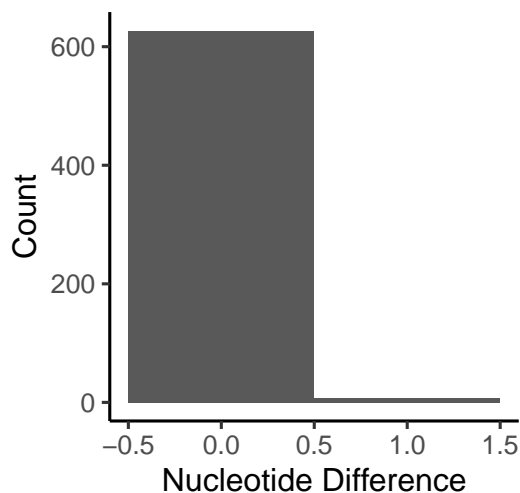
TRBV5-4\*ap01

1906 sequences assigned  
1878 (98.5%) exact matches, in which:  
1863 unique CDR3  
13 unique J



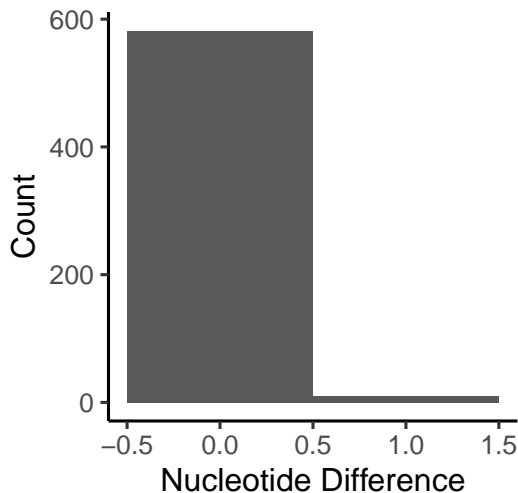
### TRBV5-5\*ap01

634 sequences assigned  
627 (98.9%) exact matches, in which:  
622 unique CDR3  
13 unique J



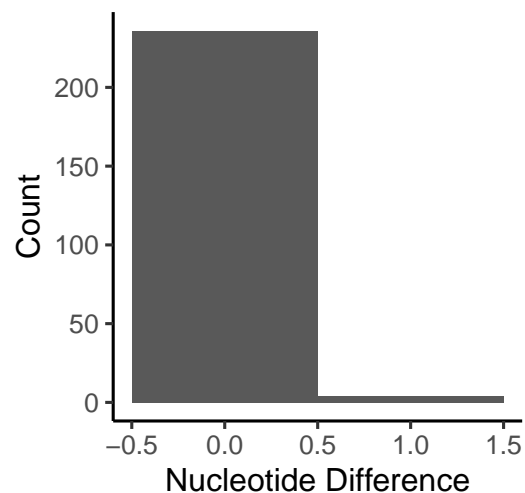
### TRBV5-8\*ap01

592 sequences assigned  
582 (98.3%) exact matches, in which:  
578 unique CDR3  
13 unique J



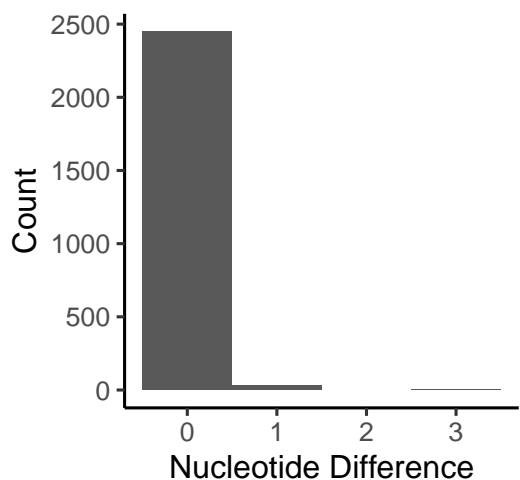
### TRBV6-7\*ap01

240 sequences assigned  
236 (98.3%) exact matches, in which:  
233 unique CDR3  
13 unique J



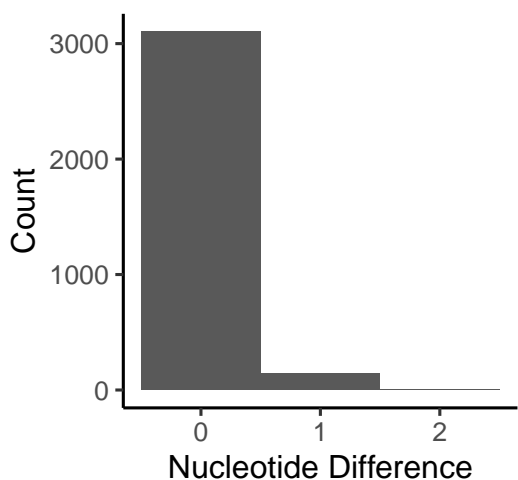
### TRBV5-6\*ap01

2482 sequences assigned  
2448 (98.6%) exact matches, in which:  
2397 unique CDR3  
13 unique J



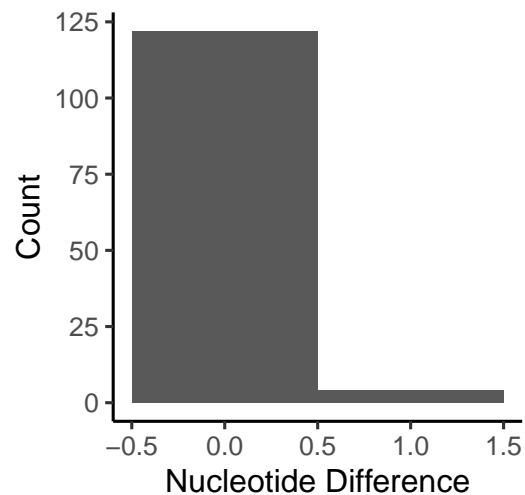
### TRBV6-1\*ap01

3252 sequences assigned  
3103 (95.4%) exact matches, in which:  
3057 unique CDR3  
13 unique J



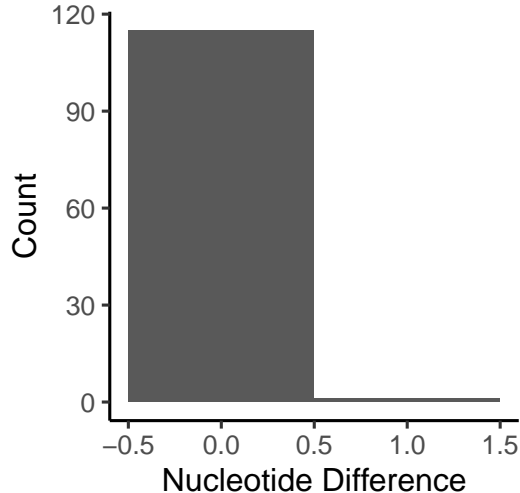
### TRBV6-8\*ap01

126 sequences assigned  
122 (96.8%) exact matches, in which:  
119 unique CDR3  
13 unique J



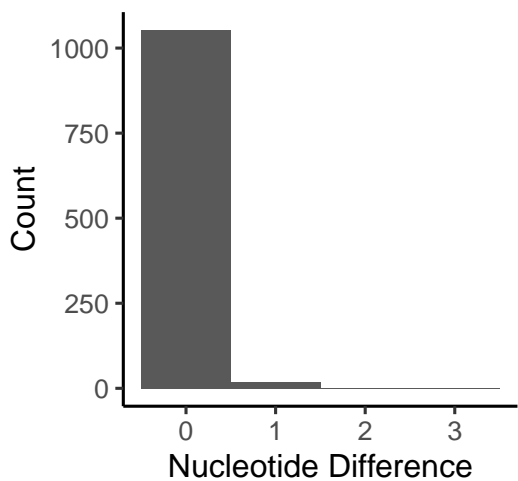
### TRBV5-7\*ap01

116 sequences assigned  
115 (99.1%) exact matches, in which:  
112 unique CDR3  
12 unique J



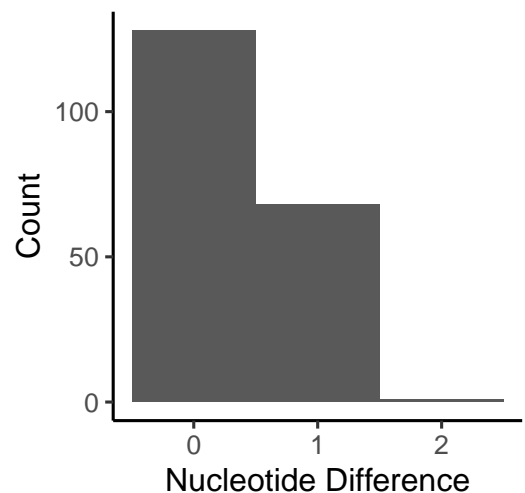
### TRBV6-4\*ap01

1073 sequences assigned  
1053 (98.1%) exact matches, in which:  
1041 unique CDR3  
13 unique J



### TRBV6-9\*ap01

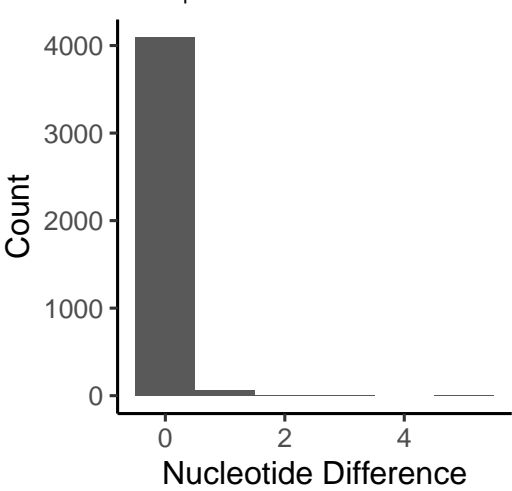
197 sequences assigned  
128 (65%) exact matches, in which:  
125 unique CDR3  
12 unique J





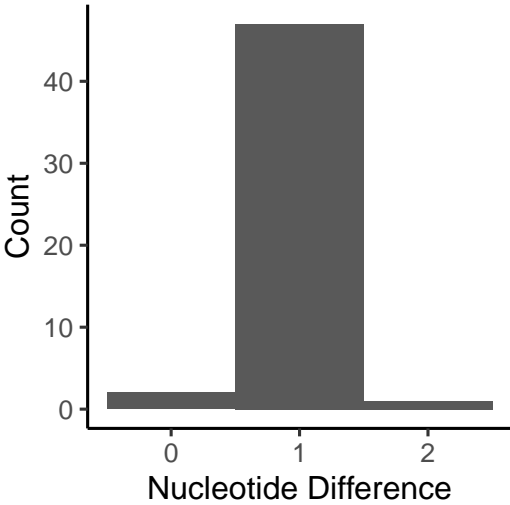
TRBV6-23\*ap01

4160 sequences assigned  
4093 (98.4%) exact matches, in which:  
4046 unique CDR3  
13 unique J



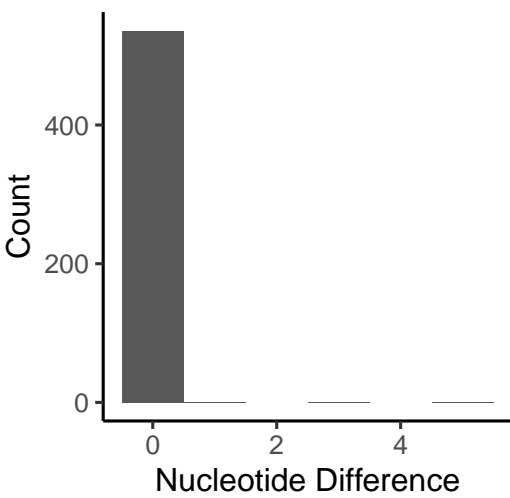
TRBV7-1\*ap01\_T296C

50 sequences assigned  
2 (4%) exact matches, in which:  
2 unique CDR3  
2 unique J



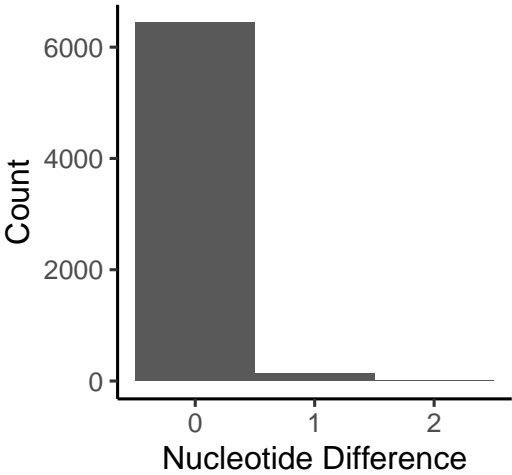
TRBV7-3\*ap03

539 sequences assigned  
536 (99.4%) exact matches, in which:  
534 unique CDR3  
12 unique J



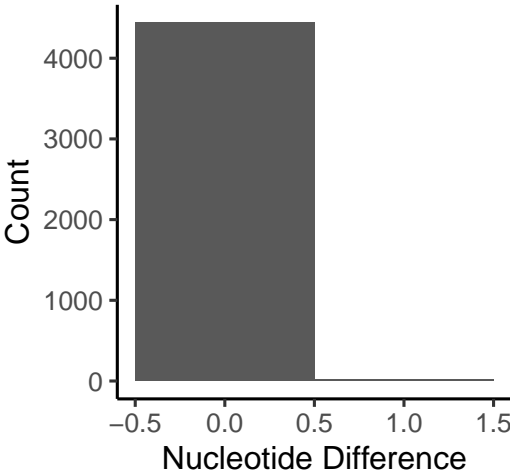
TRBV6-56\*ap01

6576 sequences assigned  
6439 (97.9%) exact matches, in which:  
6329 unique CDR3  
13 unique J



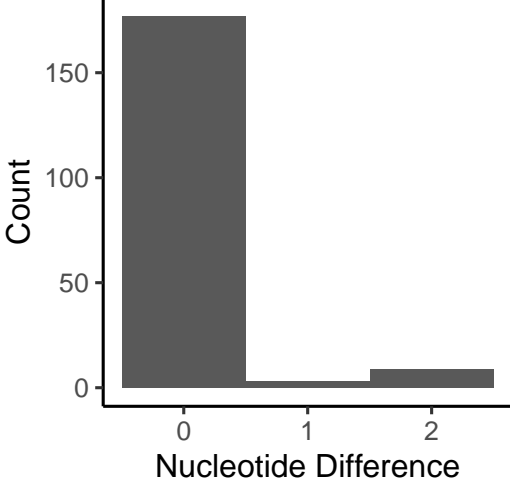
TRBV7-2\*ap01

4462 sequences assigned  
4440 (99.5%) exact matches, in which:  
4402 unique CDR3  
13 unique J



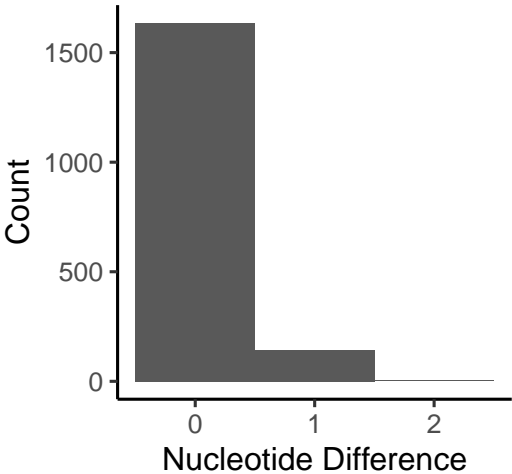
TRBV7-4\*ap01

189 sequences assigned  
177 (93.7%) exact matches, in which:  
175 unique CDR3  
13 unique J



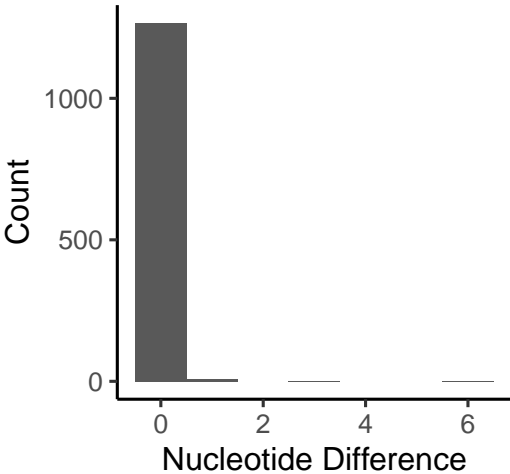
TRBV6-56\*ap02

1781 sequences assigned  
1635 (91.8%) exact matches, in which:  
1598 unique CDR3  
13 unique J



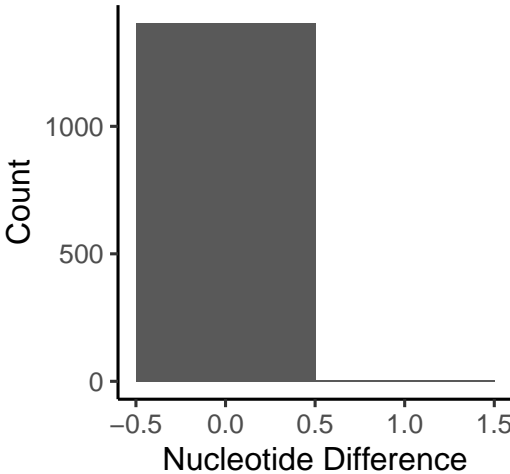
TRBV7-3\*ap01

1276 sequences assigned  
1266 (99.2%) exact matches, in which:  
1257 unique CDR3  
13 unique J



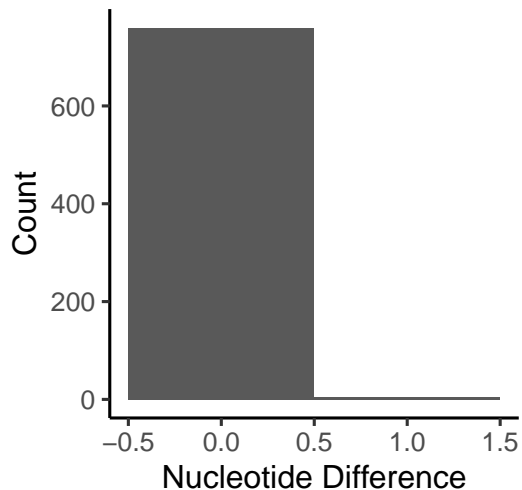
TRBV7-6\*ap01

1411 sequences assigned  
1405 (99.6%) exact matches, in which:  
1379 unique CDR3  
13 unique J



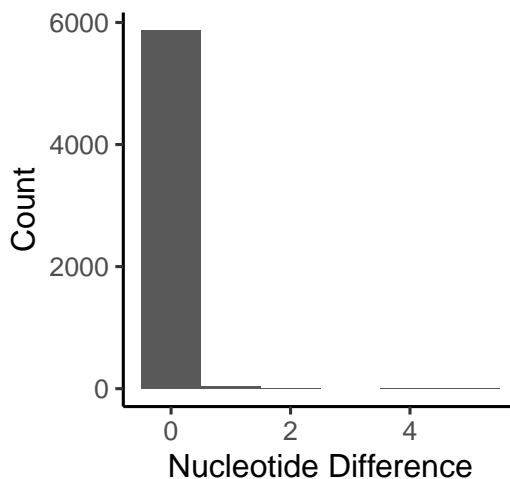
### TRBV7-7\*ap01\_C315T

765 sequences assigned  
760 (99.3%) exact matches, in which:  
742 unique CDR3  
13 unique J



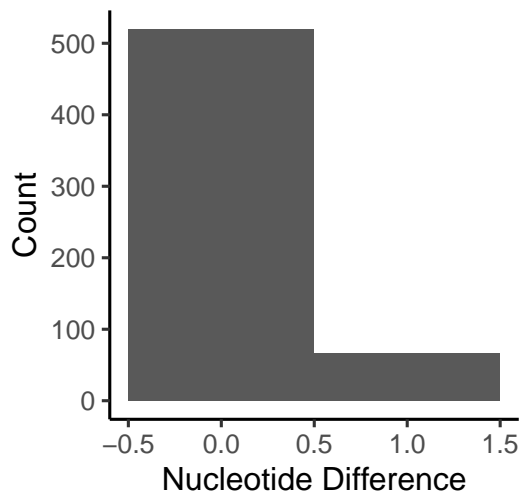
### TRBV7-9\*ap01

5915 sequences assigned  
5870 (99.2%) exact matches, in which:  
5798 unique CDR3  
13 unique J



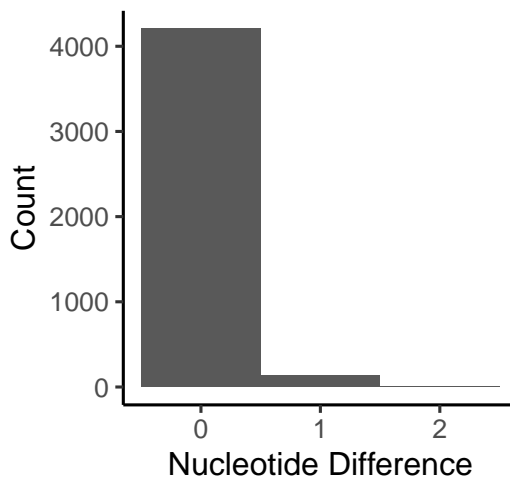
### TRBV7-8\*ap01

587 sequences assigned  
520 (88.6%) exact matches, in which:  
514 unique CDR3  
13 unique J



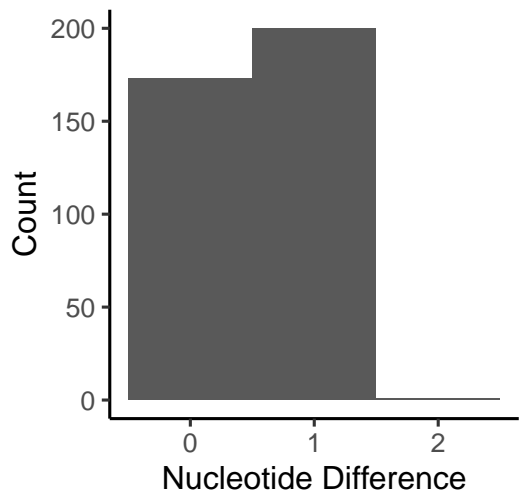
### TRBV29-1\*ap01

4340 sequences assigned  
4206 (96.9%) exact matches, in which:  
3997 unique CDR3  
13 unique J



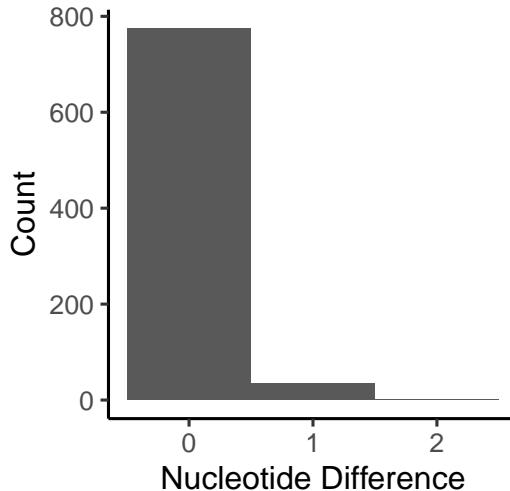
### TRBV7-8\*ap03

374 sequences assigned  
173 (46.3%) exact matches, in which:  
173 unique CDR3  
13 unique J

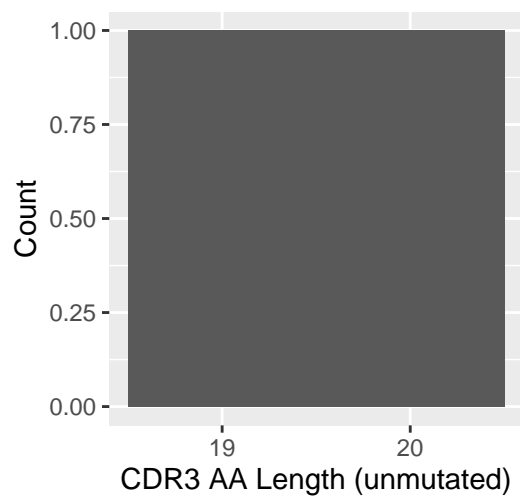


### TRBV29-1\*ap02

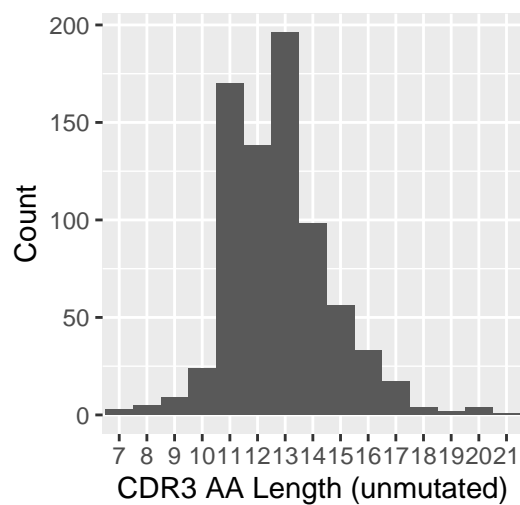
811 sequences assigned  
775 (95.6%) exact matches, in which:  
737 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]