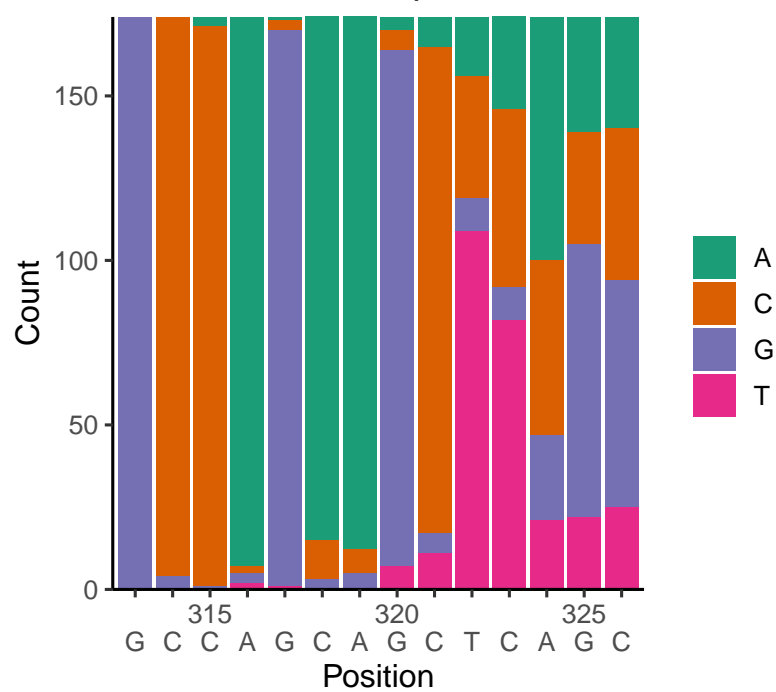
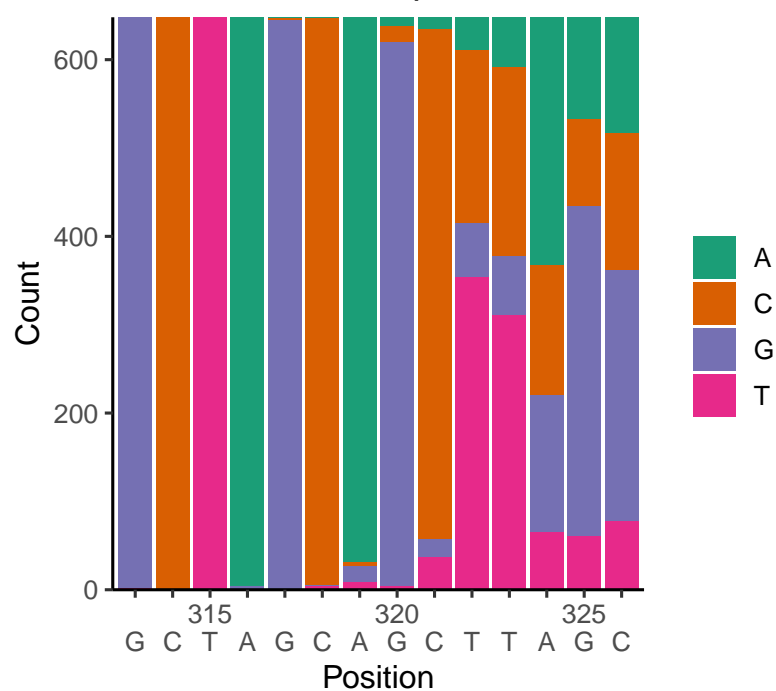


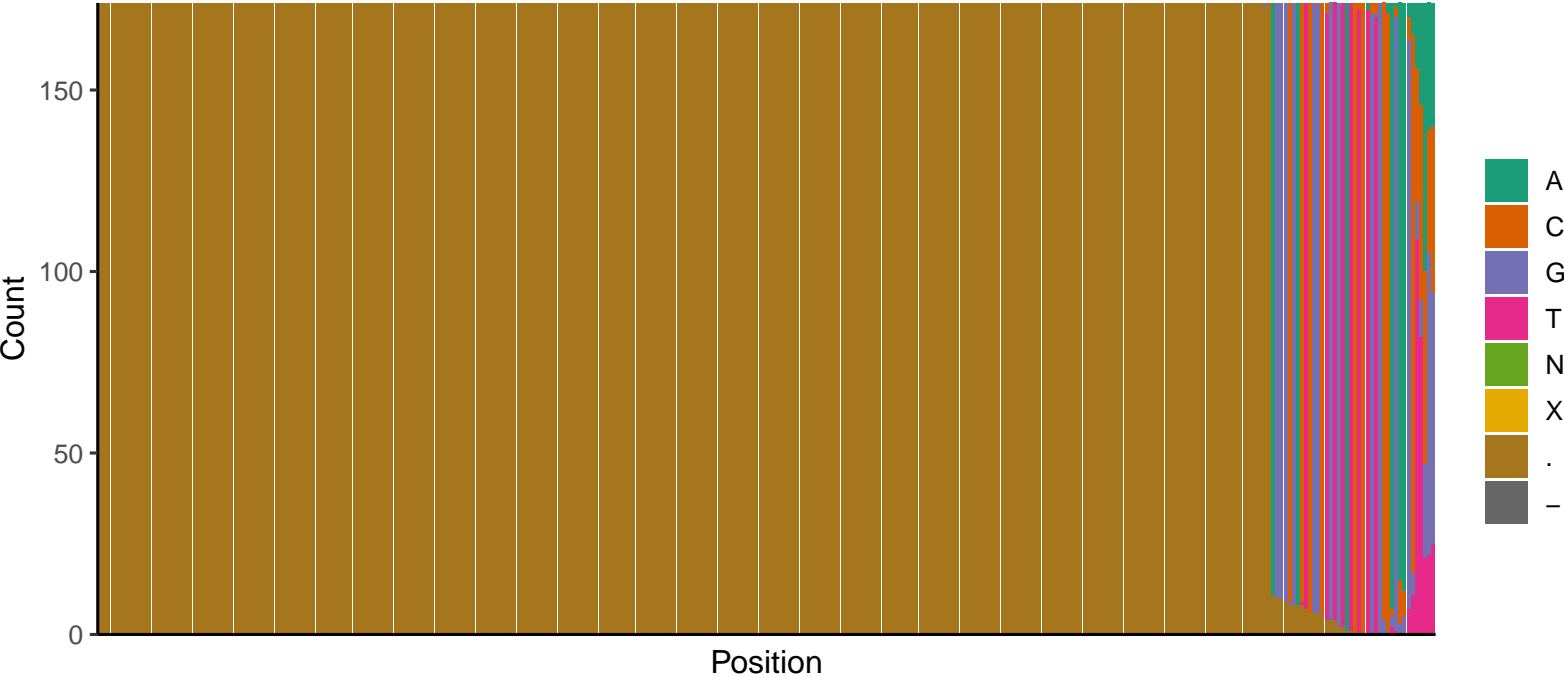
Gene TRBV7-1\*ap01\_G291C\_T296C



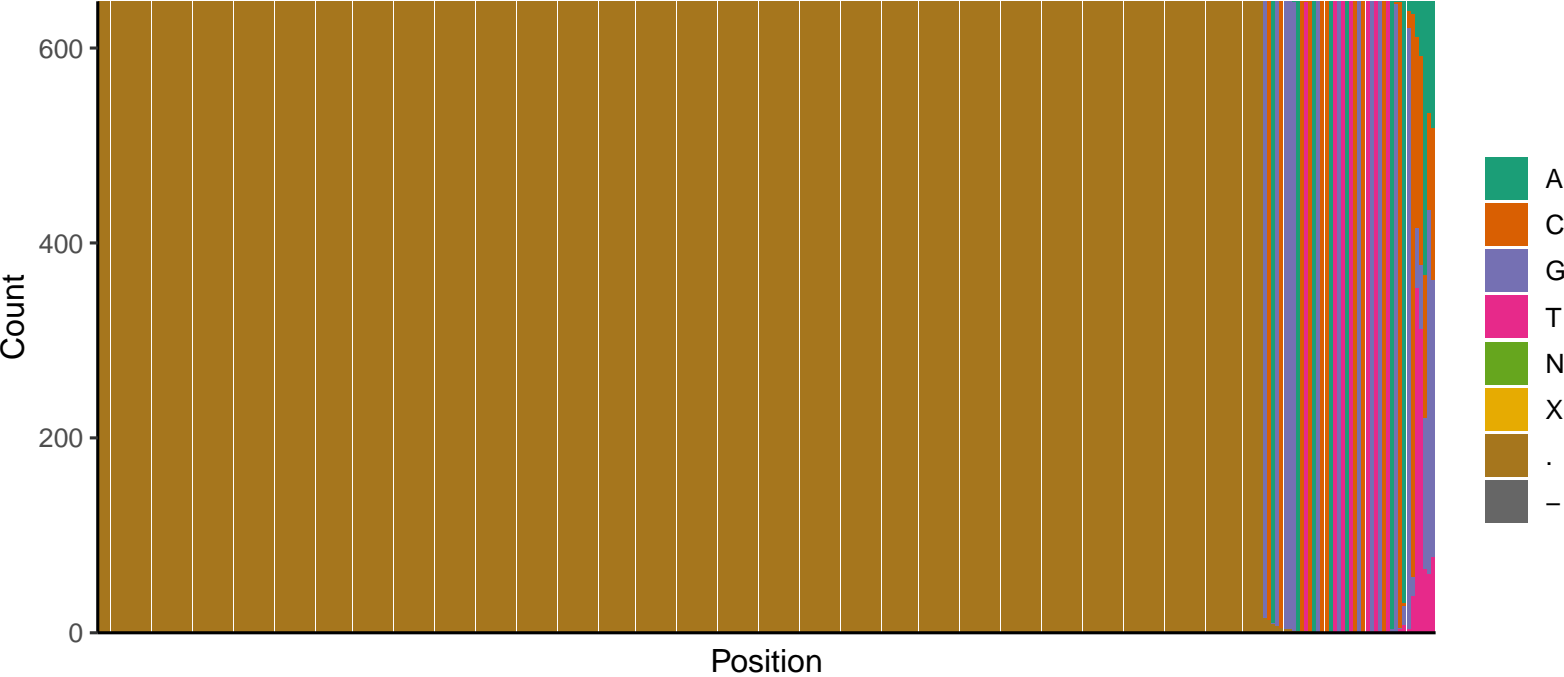
Gene TRBV7-7\*ap01\_C315T



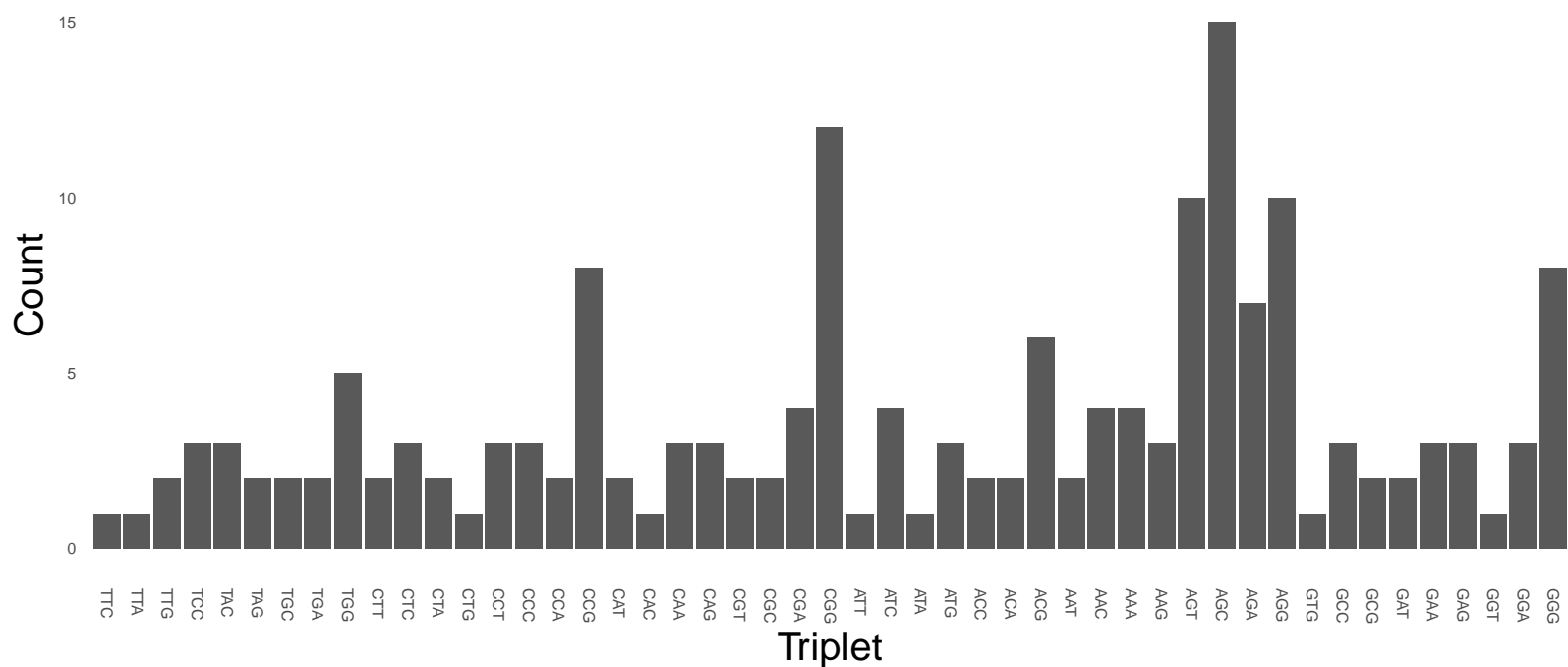
Gene TRBV7-1\*ap01\_G291C\_T296C



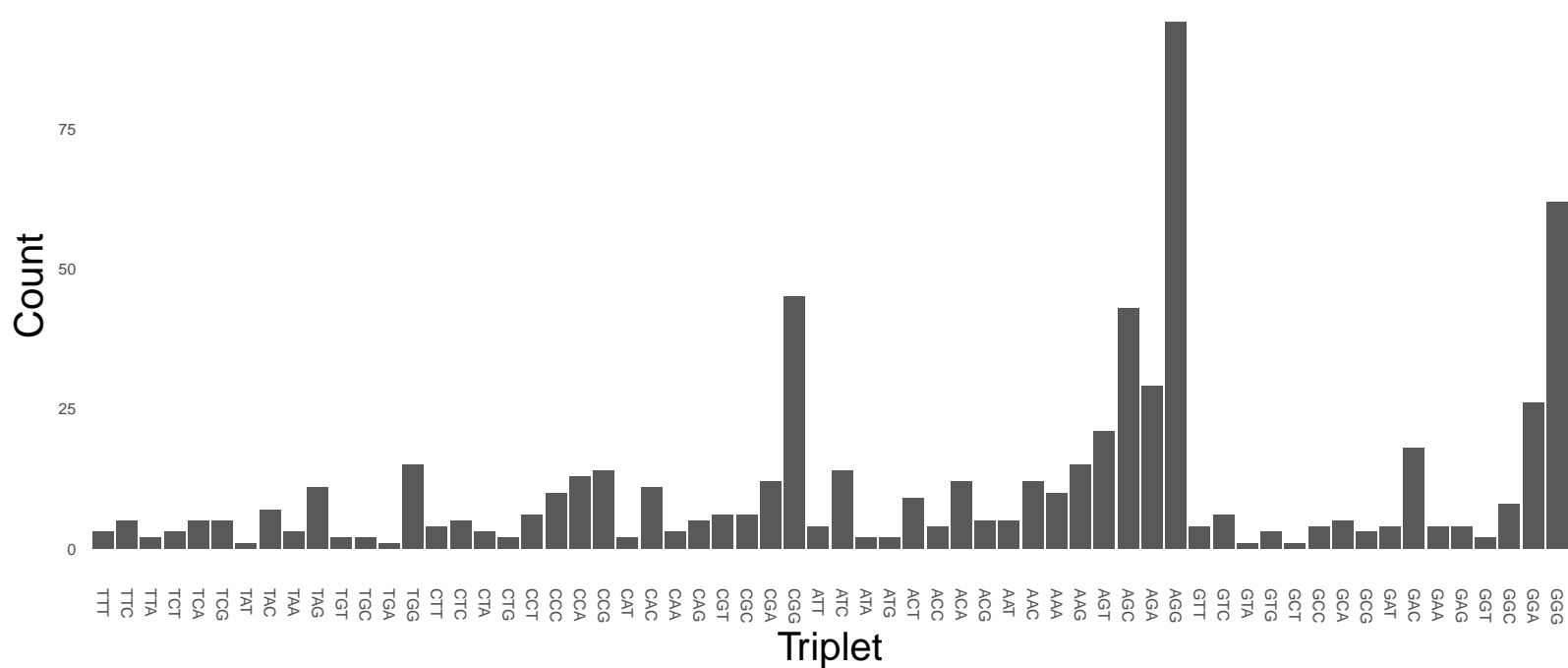
Gene TRBV7-7\*ap01\_C315T



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

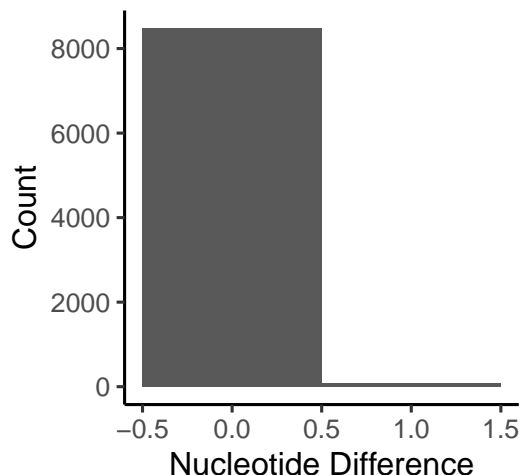


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



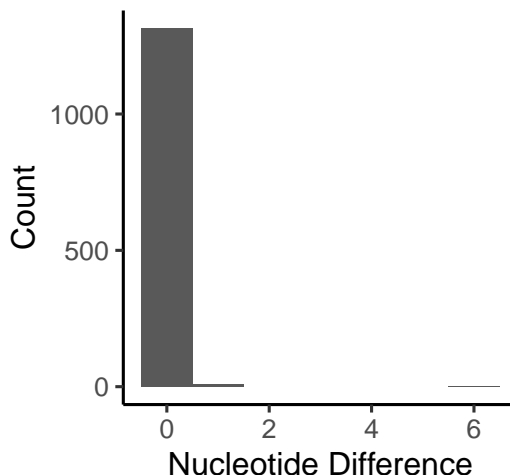
### TRBV20-1\*ap01

8552 sequences assigned  
8477 (99.1%) exact matches, in which:  
8325 unique CDR3  
13 unique J



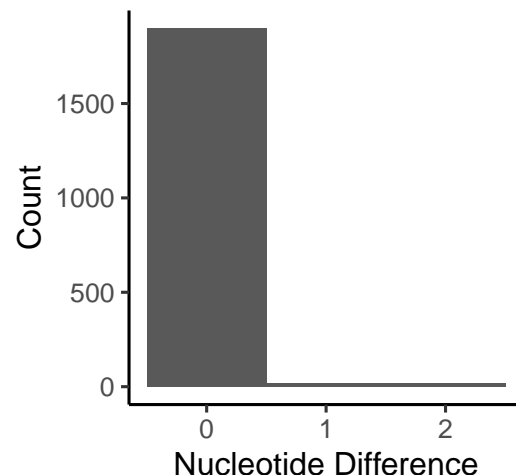
### TRBV10-2\*ap01

1323 sequences assigned  
1314 (99.3%) exact matches, in which:  
1292 unique CDR3  
13 unique J



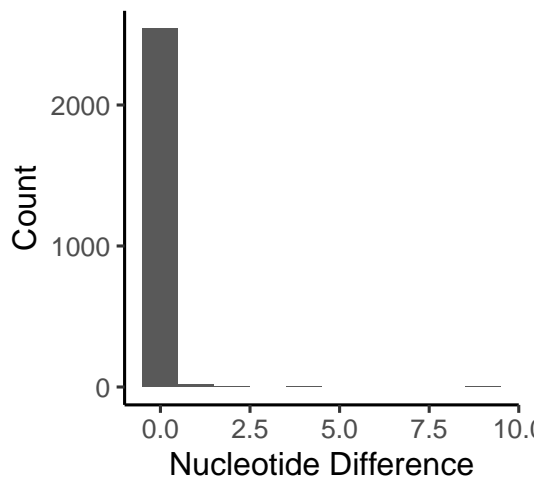
### TRBV13\*ap01

1932 sequences assigned  
1898 (98.2%) exact matches, in which:  
1845 unique CDR3  
13 unique J



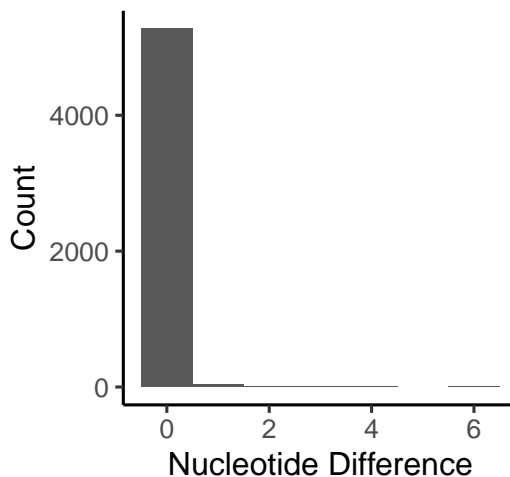
### TRBV10-1\*ap01

2567 sequences assigned  
2541 (99%) exact matches, in which:  
2497 unique CDR3  
13 unique J



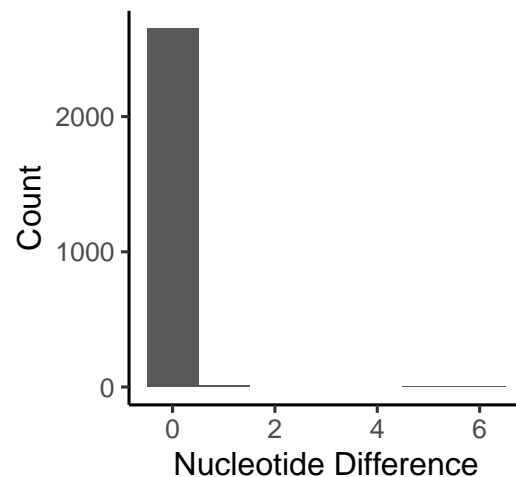
### TRBV10-3\*ap01

5318 sequences assigned  
5274 (99.2%) exact matches, in which:  
5179 unique CDR3  
13 unique J



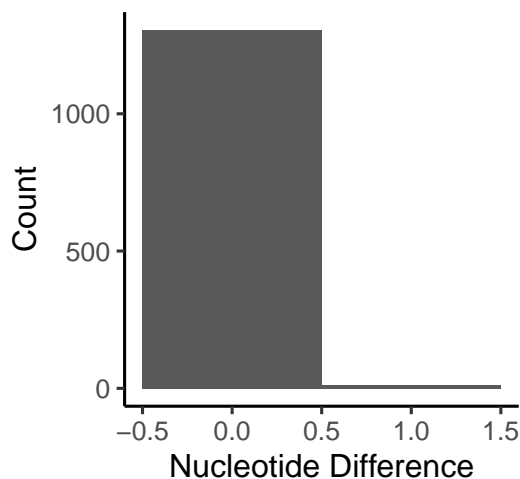
### TRBV14\*ap01

2665 sequences assigned  
2650 (99.4%) exact matches, in which:  
2605 unique CDR3  
13 unique J



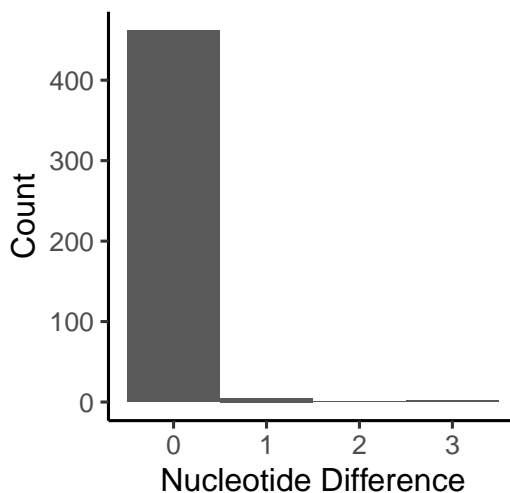
### TRBV20-1\*ap02

1316 sequences assigned  
1305 (99.2%) exact matches, in which:  
1285 unique CDR3  
13 unique J



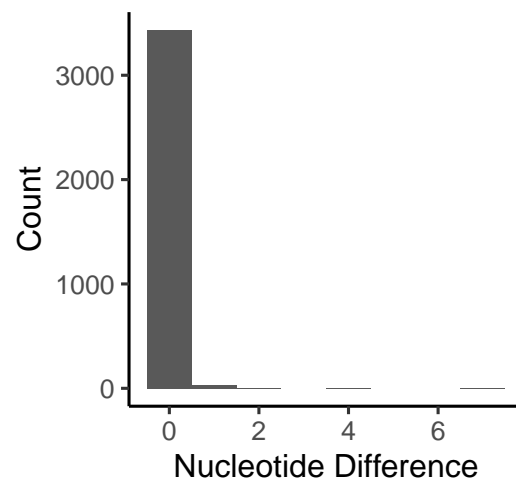
### TRBV1\*ap01

470 sequences assigned  
462 (98.3%) exact matches, in which:  
452 unique CDR3  
13 unique J



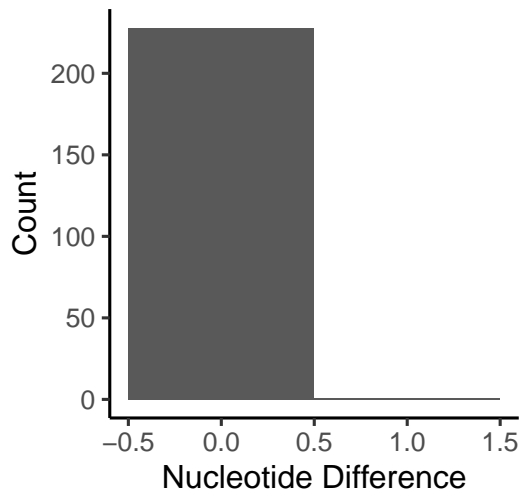
### TRBV15\*ap02

3467 sequences assigned  
3433 (99%) exact matches, in which:  
3344 unique CDR3  
13 unique J



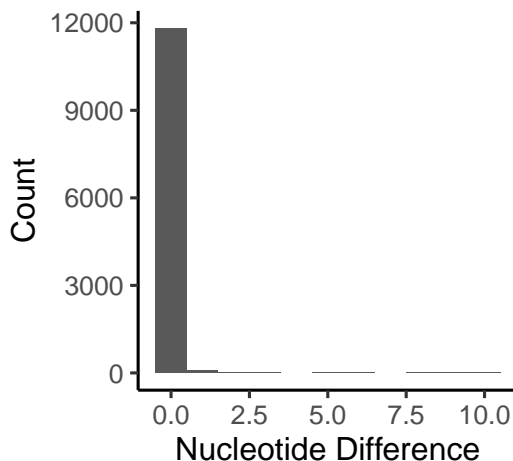
### TRBV16\*ap01

229 sequences assigned  
228 (99.6%) exact matches, in which:  
222 unique CDR3  
13 unique J



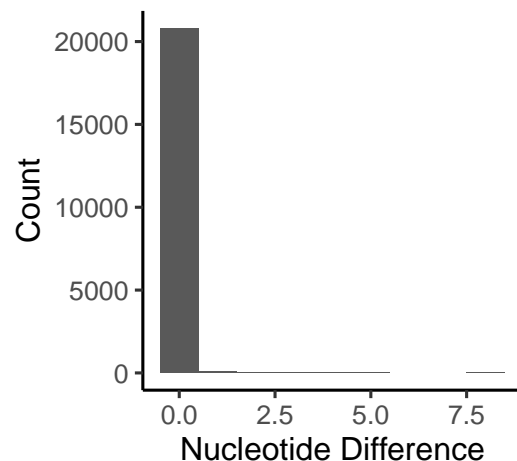
### TRBV19\*ap01

11915 sequences assigned  
11816 (99.2%) exact matches, in which:  
11685 unique CDR3  
13 unique J



### TRBV28\*ap01

20942 sequences assigned  
20810 (99.4%) exact matches, in which:  
20513 unique CDR3  
13 unique J



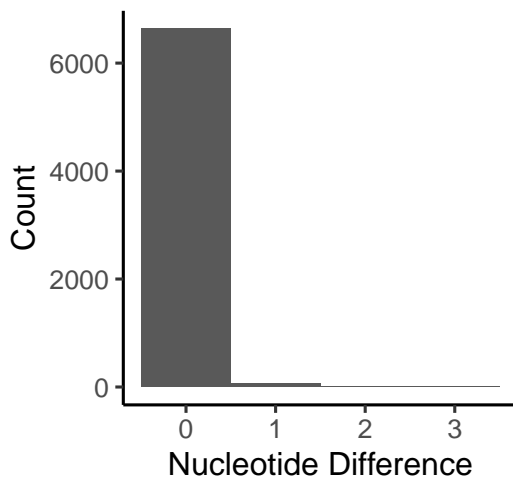
### TRBV17\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



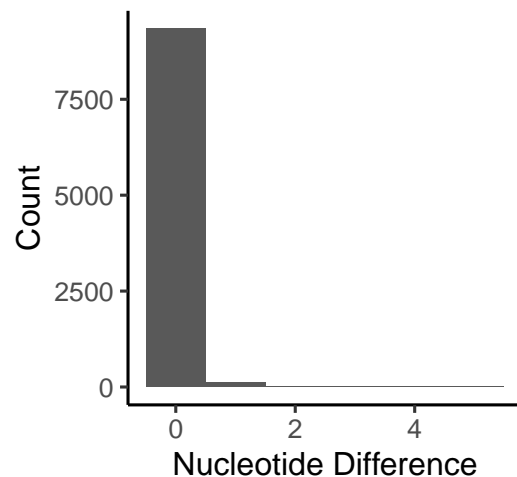
### TRBV2\*ap01

6703 sequences assigned  
6637 (99%) exact matches, in which:  
6513 unique CDR3  
14 unique J



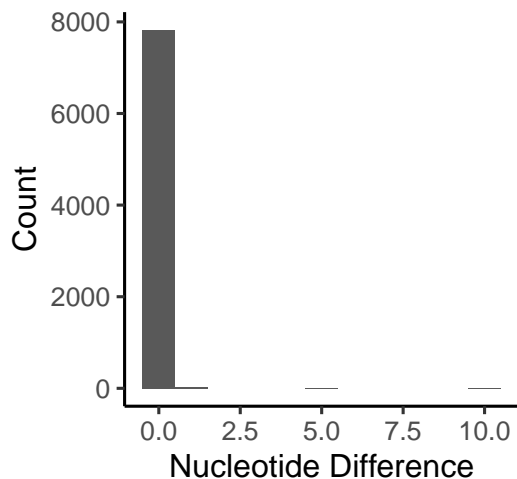
### TRBV30\*ap01

9468 sequences assigned  
9339 (98.6%) exact matches, in which:  
9121 unique CDR3  
13 unique J



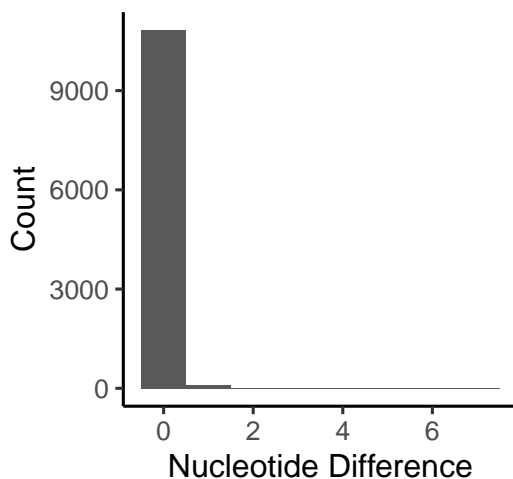
### TRBV18\*ap01

7858 sequences assigned  
7822 (99.5%) exact matches, in which:  
7740 unique CDR3  
13 unique J



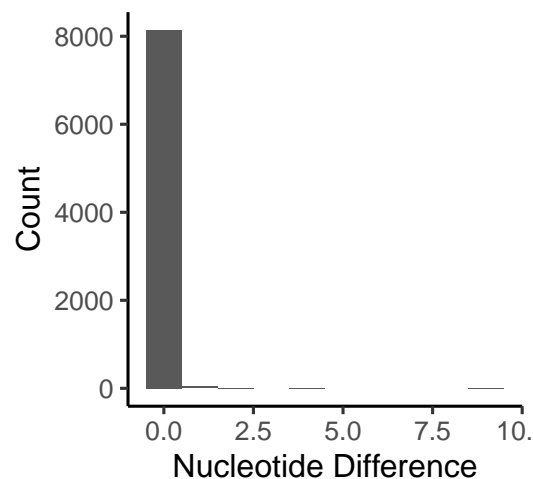
### TRBV27\*ap01

10943 sequences assigned  
10831 (99%) exact matches, in which:  
10598 unique CDR3  
13 unique J



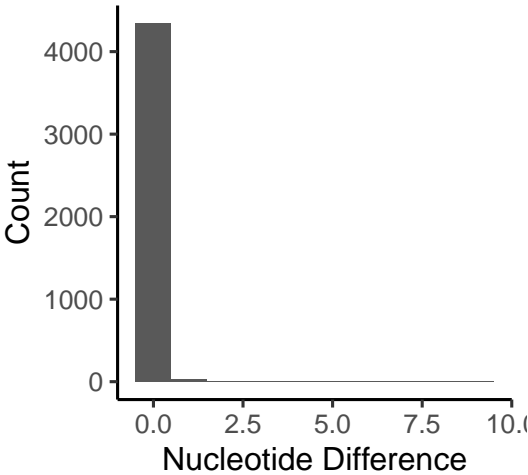
### TRBV9\*ap01

8190 sequences assigned  
8141 (99.4%) exact matches, in which:  
8035 unique CDR3  
13 unique J



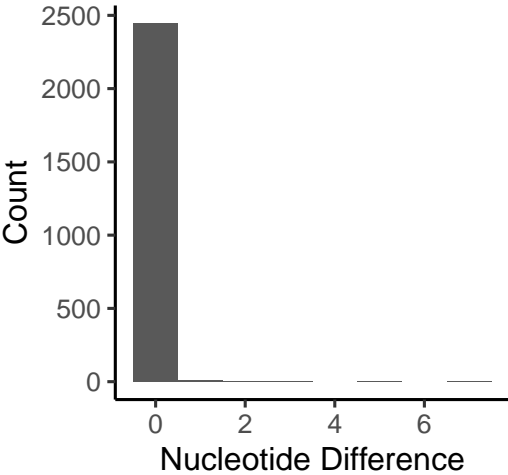
TRBV21-1\*ap01

4395 sequences assigned  
4342 (98.8%) exact matches, in which:  
4287 unique CDR3  
13 unique J



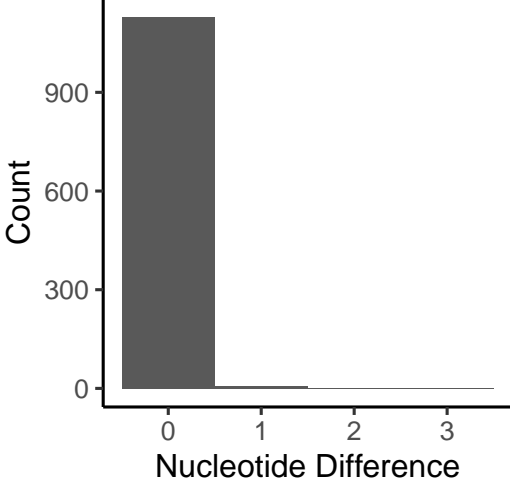
TRBV11-3\*ap01

2464 sequences assigned  
2445 (99.2%) exact matches, in which:  
2429 unique CDR3  
13 unique J



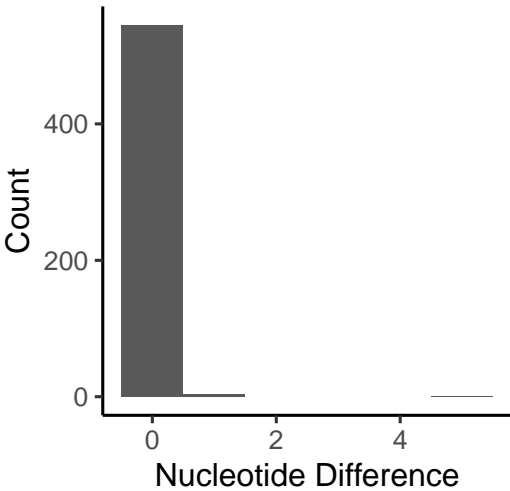
TRBV12-5\*ap01

1141 sequences assigned  
1130 (99%) exact matches, in which:  
1111 unique CDR3  
13 unique J



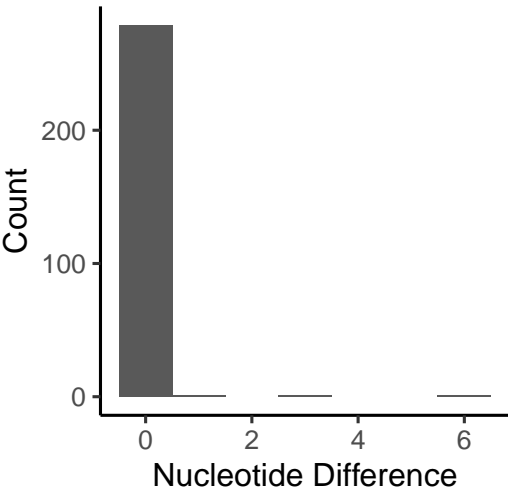
TRBV11-1\*ap01

550 sequences assigned  
545 (99.1%) exact matches, in which:  
537 unique CDR3  
13 unique J



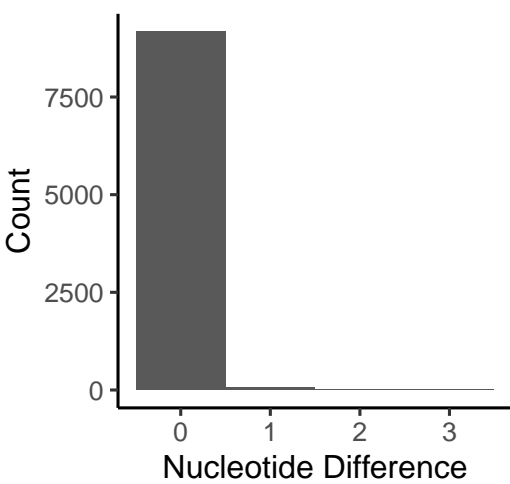
TRBV12-1\*ap01

282 sequences assigned  
279 (98.9%) exact matches, in which:  
275 unique CDR3  
13 unique J



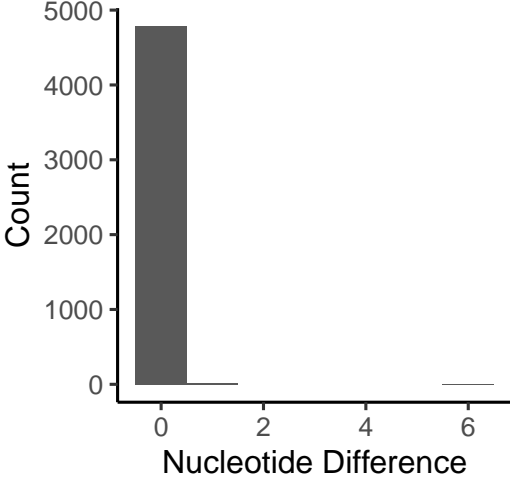
TRBV12-34\*ap01

9239 sequences assigned  
9171 (99.3%) exact matches, in which:  
8969 unique CDR3  
14 unique J



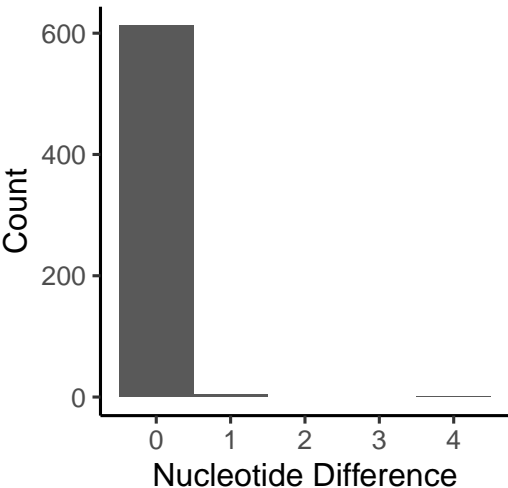
TRBV11-2\*ap01

4804 sequences assigned  
4787 (99.6%) exact matches, in which:  
4748 unique CDR3  
13 unique J



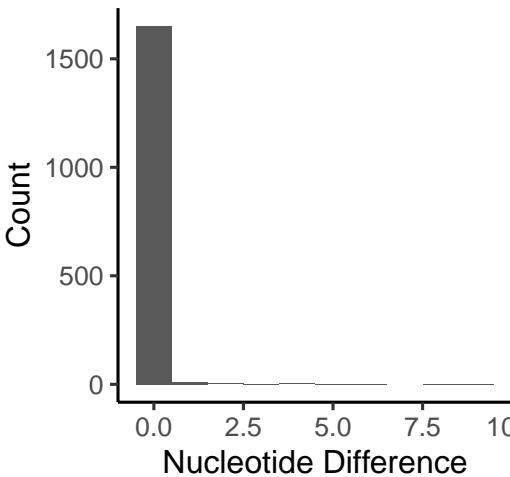
TRBV12-2\*ap01

618 sequences assigned  
613 (99.2%) exact matches, in which:  
605 unique CDR3  
13 unique J



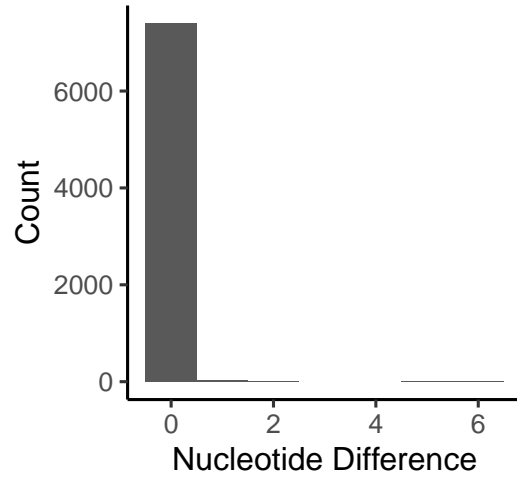
TRBV23-1\*ap01

1675 sequences assigned  
1651 (98.6%) exact matches, in which:  
1624 unique CDR3  
13 unique J



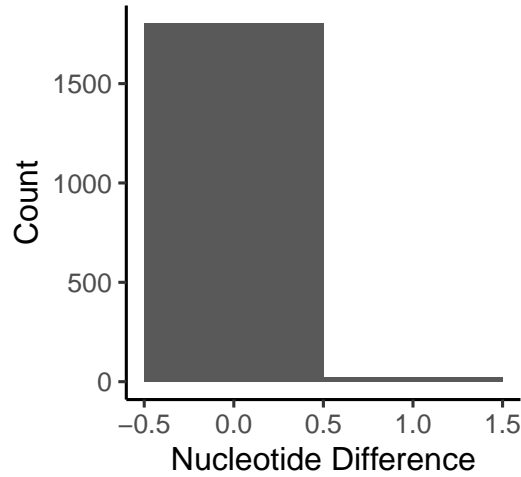
### TRBV3-12\*ap01

7440 sequences assigned  
7396 (99.4%) exact matches, in which:  
7316 unique CDR3  
13 unique J



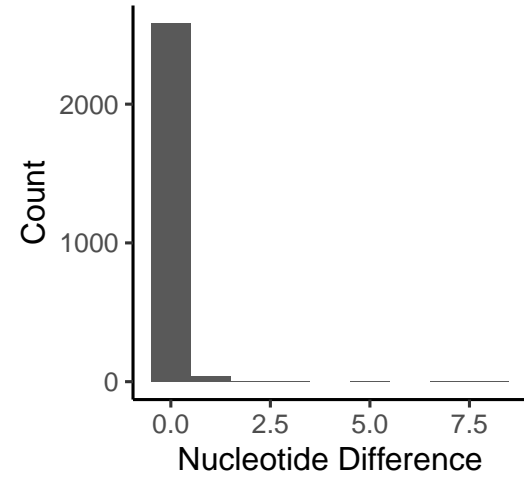
### TRBV4-2\*ap01

1827 sequences assigned  
1803 (98.7%) exact matches, in which:  
1746 unique CDR3  
13 unique J



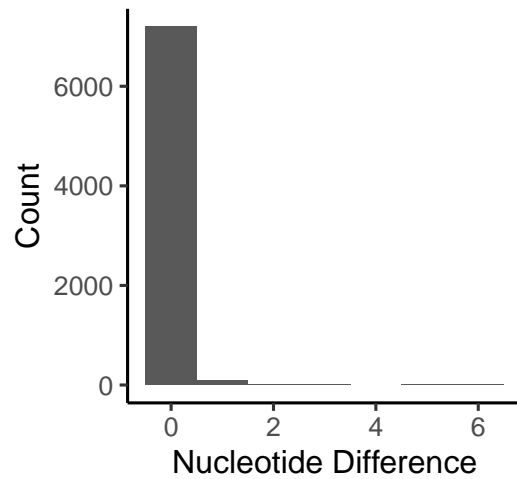
### TRBV25-1\*ap01

2634 sequences assigned  
2582 (98%) exact matches, in which:  
2511 unique CDR3  
13 unique J



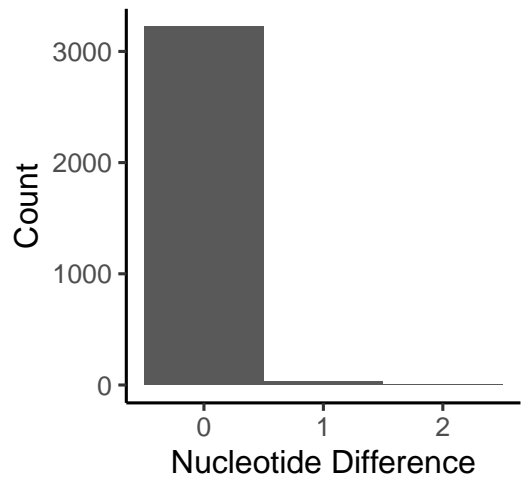
### TRBV24-1\*ap01

7284 sequences assigned  
7196 (98.8%) exact matches, in which:  
7054 unique CDR3  
13 unique J



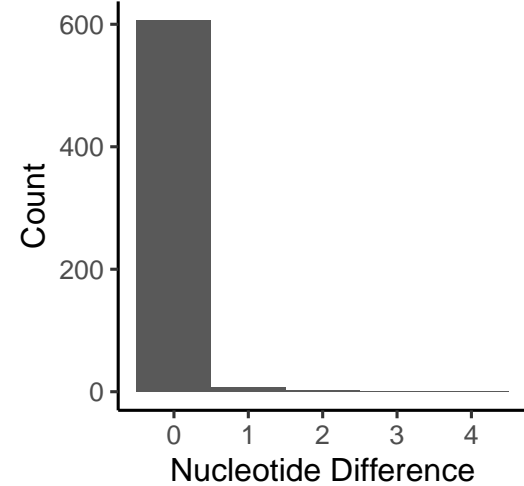
### TRBV4-3\*ap01

3250 sequences assigned  
3222 (99.1%) exact matches, in which:  
3127 unique CDR3  
13 unique J



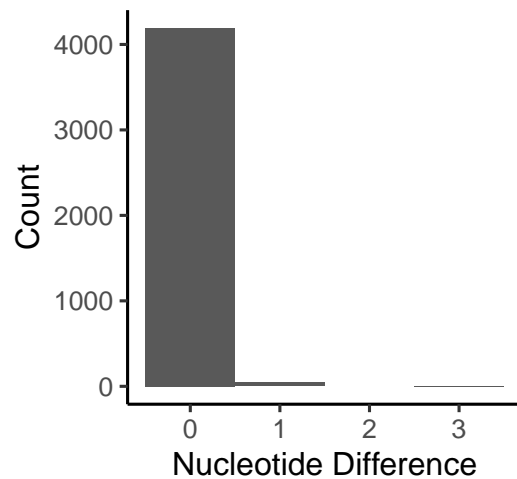
### TRBV5-3\*ap01

618 sequences assigned  
607 (98.2%) exact matches, in which:  
589 unique CDR3  
13 unique J



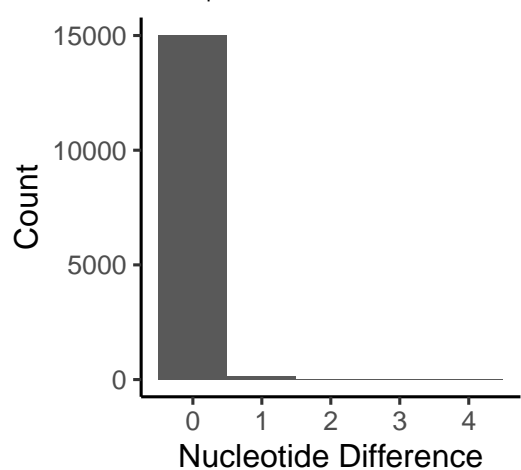
### TRBV4-1\*ap01

4237 sequences assigned  
4192 (98.9%) exact matches, in which:  
4085 unique CDR3  
13 unique J



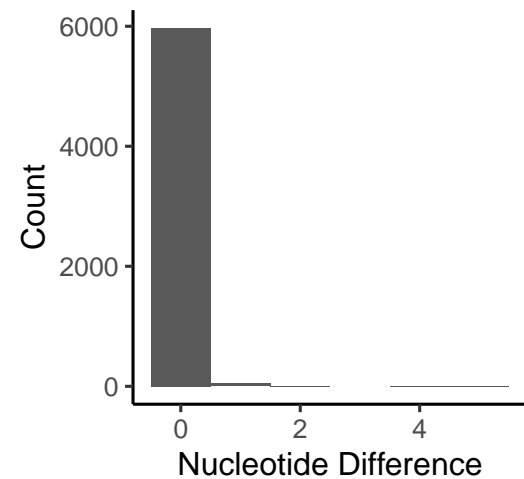
### TRBV5-1\*ap01

15186 sequences assigned  
15032 (99%) exact matches, in which:  
14661 unique CDR3  
13 unique J



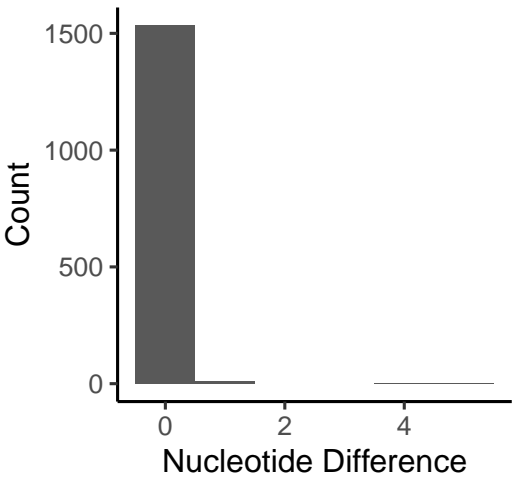
### TRBV5-4\*ap01

6023 sequences assigned  
5970 (99.1%) exact matches, in which:  
5821 unique CDR3  
13 unique J



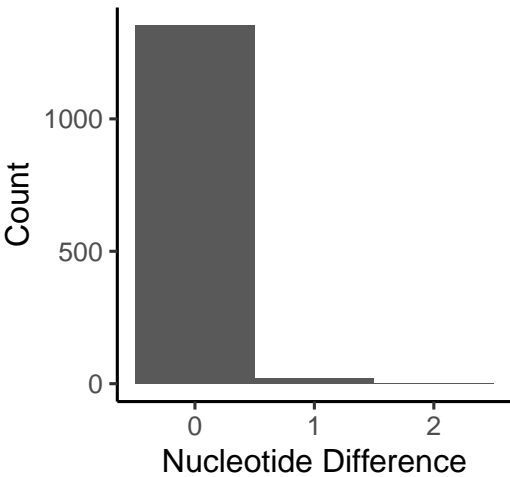
TRBV5-5\*ap01

1547 sequences assigned  
1534 (99.2%) exact matches, in which:  
1518 unique CDR3  
13 unique J



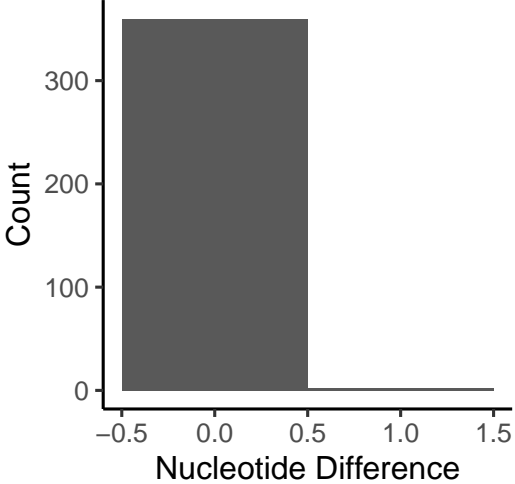
TRBV5-8\*ap01

1375 sequences assigned  
1353 (98.4%) exact matches, in which:  
1335 unique CDR3  
13 unique J



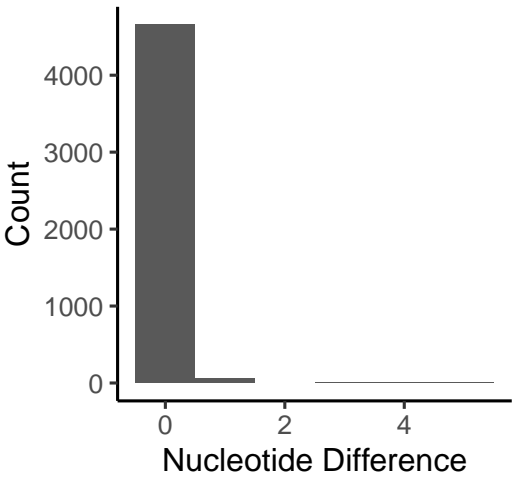
TRBV6-7\*ap01

362 sequences assigned  
360 (99.4%) exact matches, in which:  
351 unique CDR3  
13 unique J



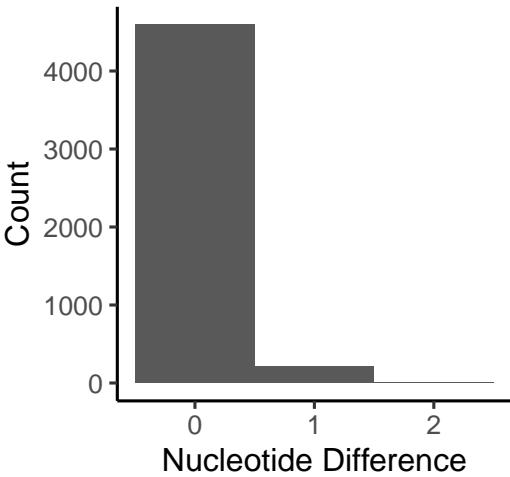
TRBV5-6\*ap01

4716 sequences assigned  
4656 (98.7%) exact matches, in which:  
4483 unique CDR3  
13 unique J



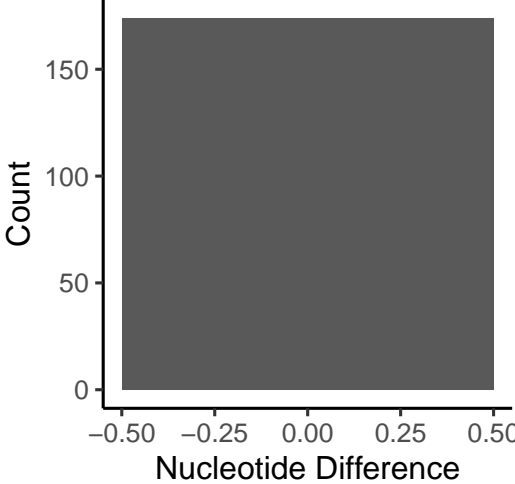
TRBV6-1\*ap01

4804 sequences assigned  
4593 (95.6%) exact matches, in which:  
4483 unique CDR3  
13 unique J



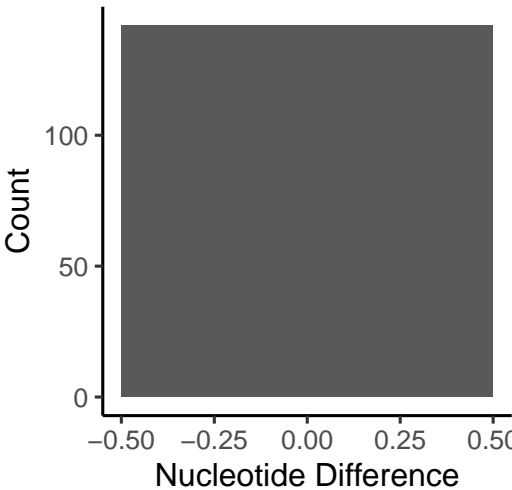
TRBV6-8\*ap01

174 sequences assigned  
174 (100%) exact matches, in which:  
170 unique CDR3  
13 unique J



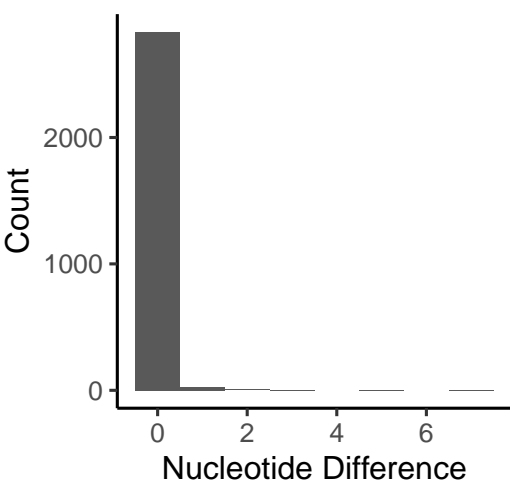
TRBV5-7\*ap01

142 sequences assigned  
142 (100%) exact matches, in which:  
136 unique CDR3  
13 unique J



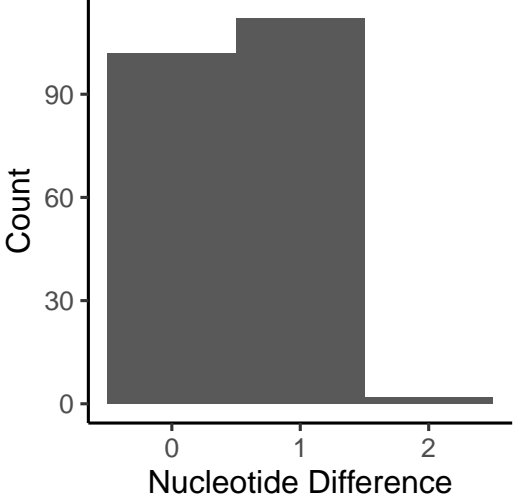
TRBV6-4\*ap01

2870 sequences assigned  
2834 (98.7%) exact matches, in which:  
2792 unique CDR3  
13 unique J



TRBV6-9\*ap01

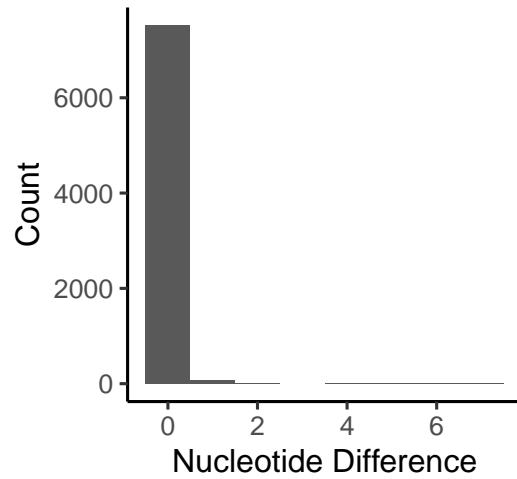
216 sequences assigned  
102 (47.2%) exact matches, in which:  
101 unique CDR3  
13 unique J





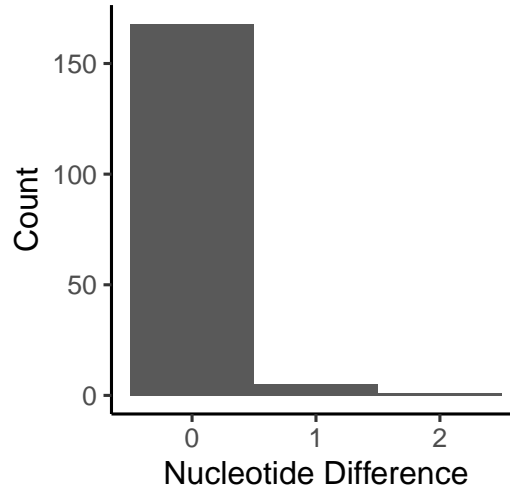
### TRBV6-23\*ap01

7596 sequences assigned  
7518 (99%) exact matches, in which:  
7265 unique CDR3  
13 unique J



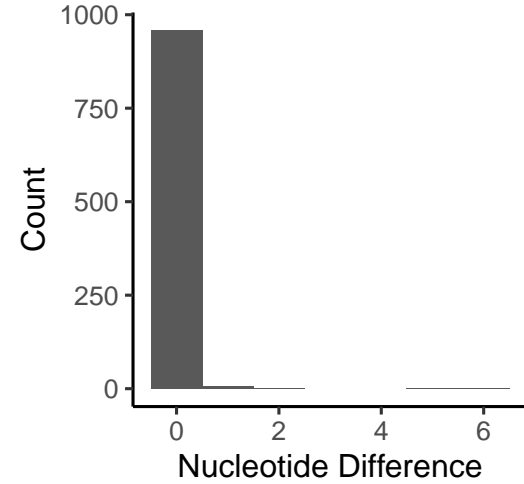
### TRBV7-1\*ap01\_G291C\_

174 sequences assigned  
168 (96.6%) exact matches, in which:  
164 unique CDR3  
13 unique J



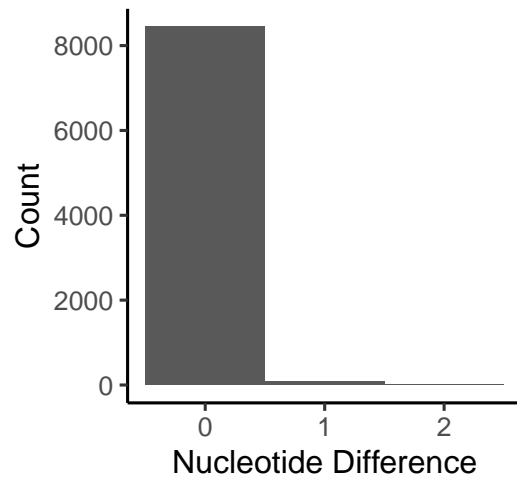
### TRBV7-3\*ap03

968 sequences assigned  
958 (99%) exact matches, in which:  
936 unique CDR3  
13 unique J



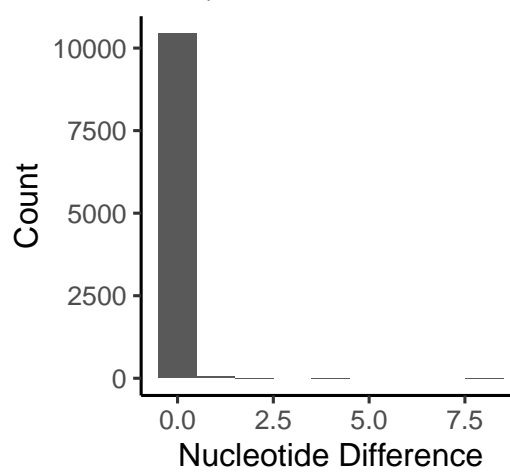
### TRBV6-56\*ap01

8540 sequences assigned  
8445 (98.9%) exact matches, in which:  
8180 unique CDR3  
14 unique J



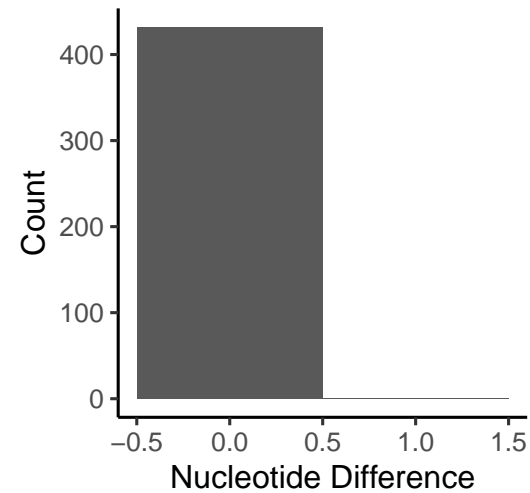
### TRBV7-2\*ap01

10496 sequences assigned  
10443 (99.5%) exact matches, in which:  
10257 unique CDR3  
13 unique J



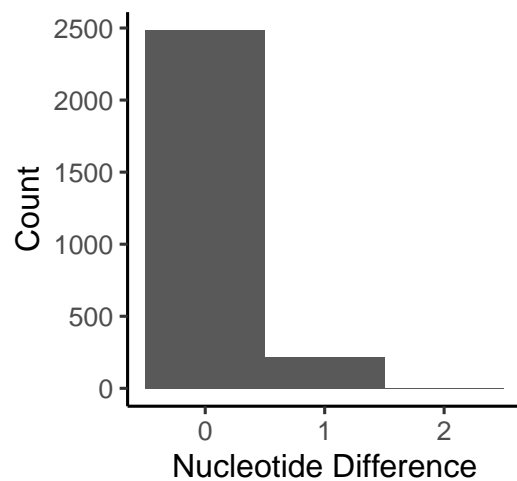
### TRBV7-4\*ap01

433 sequences assigned  
432 (99.8%) exact matches, in which:  
426 unique CDR3  
13 unique J



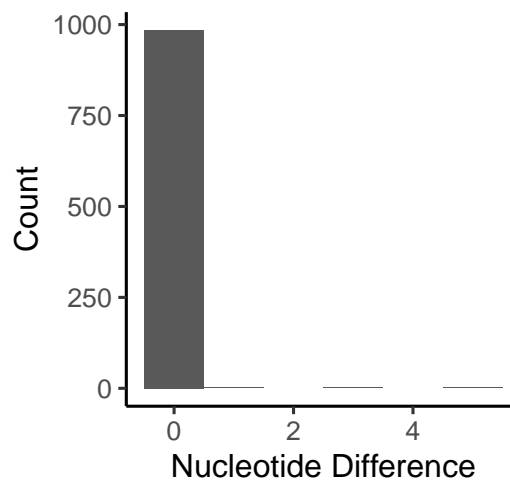
### TRBV6-56\*ap02

2704 sequences assigned  
2486 (91.9%) exact matches, in which:  
2405 unique CDR3  
13 unique J



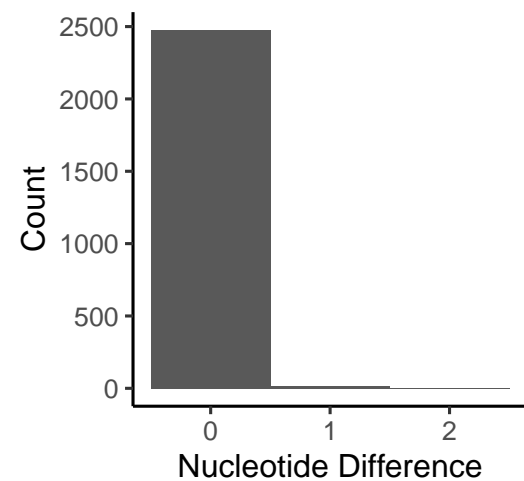
### TRBV7-3\*ap02

991 sequences assigned  
985 (99.4%) exact matches, in which:  
972 unique CDR3  
13 unique J



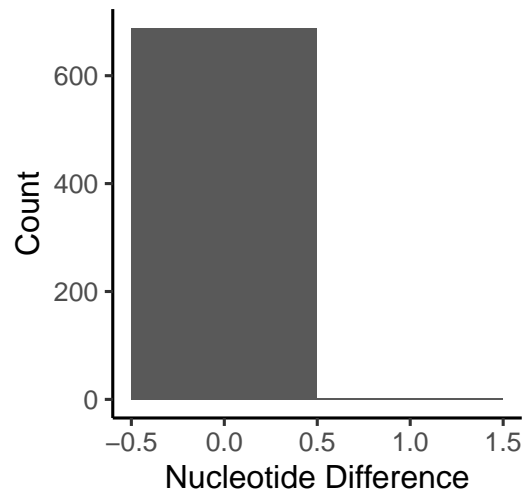
### TRBV7-6\*ap01

2492 sequences assigned  
2476 (99.4%) exact matches, in which:  
2434 unique CDR3  
13 unique J



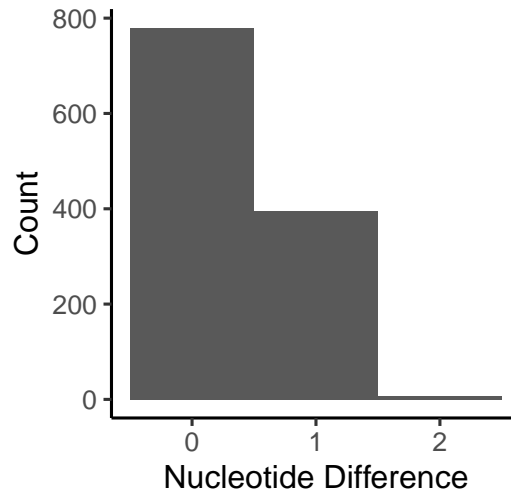
### TRBV7-7\*ap01

692 sequences assigned  
689 (99.6%) exact matches, in which:  
678 unique CDR3  
13 unique J



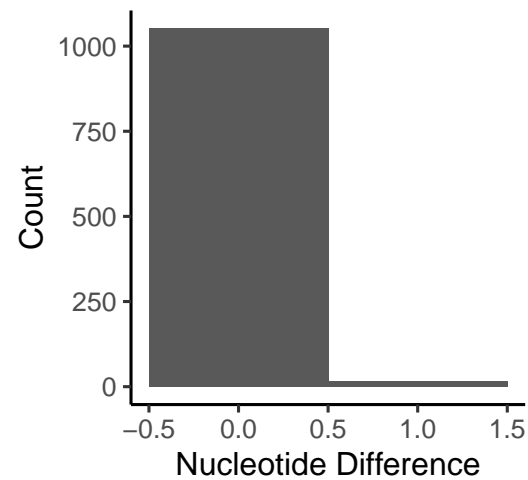
### TRBV7-8\*ap03

1182 sequences assigned  
780 (66%) exact matches, in which:  
763 unique CDR3  
13 unique J



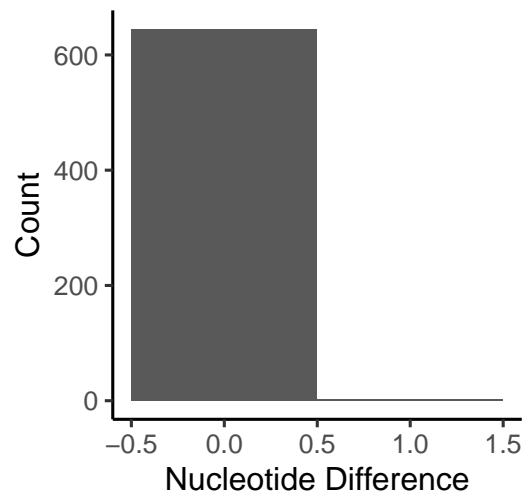
### TRBV29-1\*ap02

1067 sequences assigned  
1052 (98.6%) exact matches, in which:  
1020 unique CDR3  
13 unique J



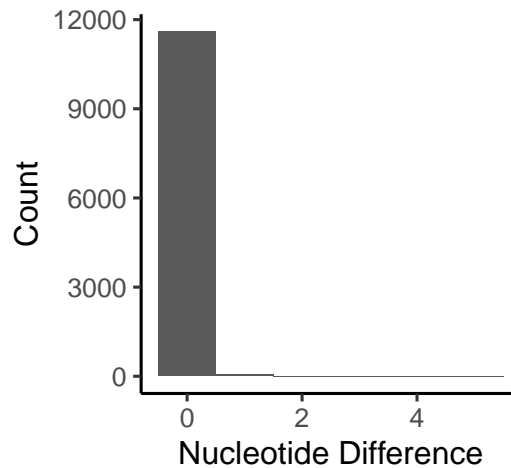
### TRBV7-7\*ap01\_C315T

648 sequences assigned  
645 (99.5%) exact matches, in which:  
634 unique CDR3  
13 unique J



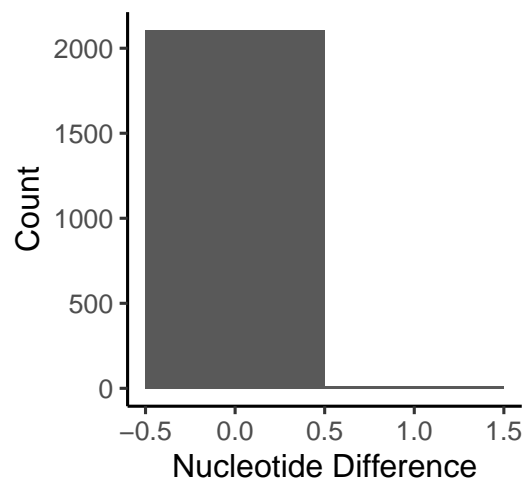
### TRBV7-9\*ap01

11673 sequences assigned  
11602 (99.4%) exact matches, in which:  
11394 unique CDR3  
13 unique J



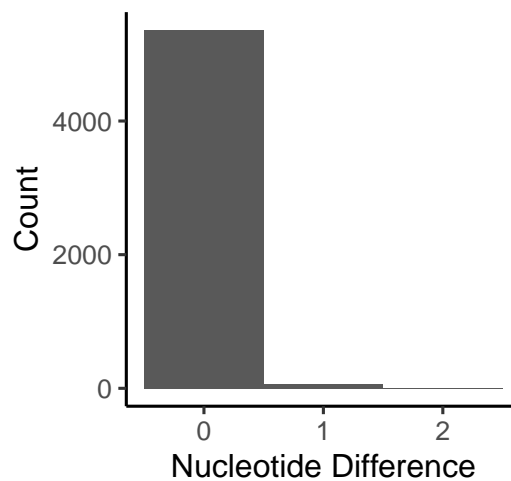
### TRBV7-8\*ap01

2120 sequences assigned  
2107 (99.4%) exact matches, in which:  
2071 unique CDR3  
13 unique J

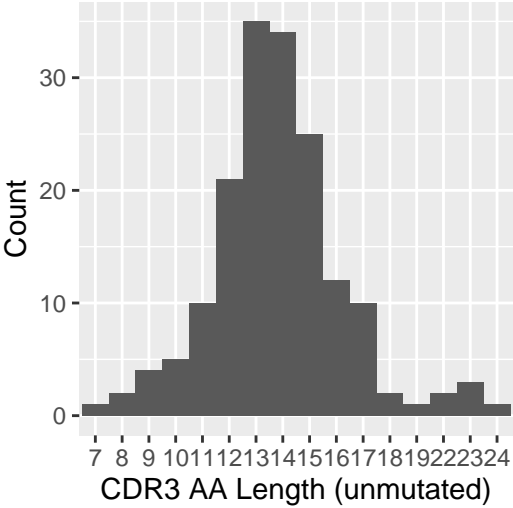


### TRBV29-1\*ap01

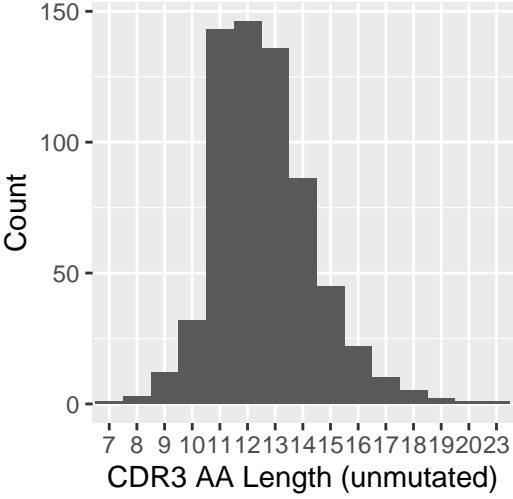
5429 sequences assigned  
5361 (98.7%) exact matches, in which:  
5170 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]