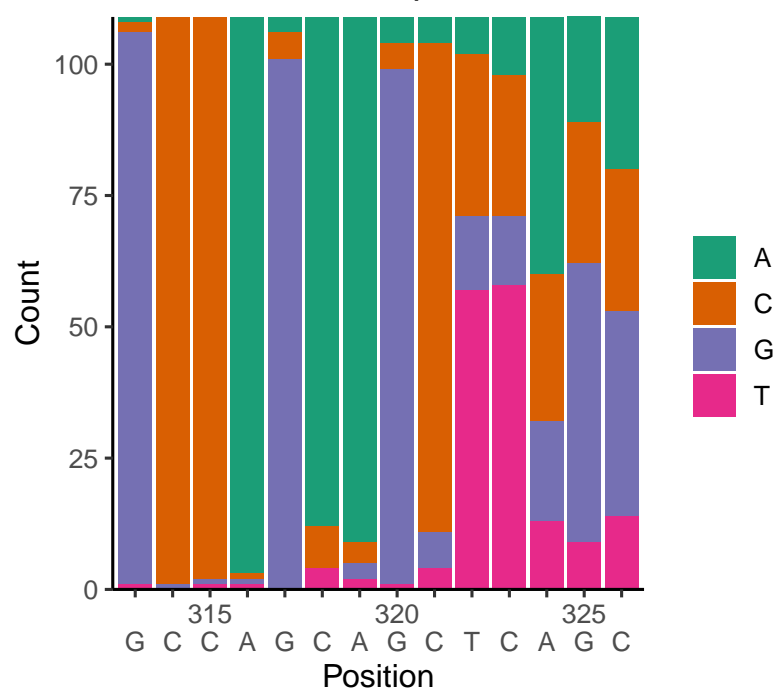
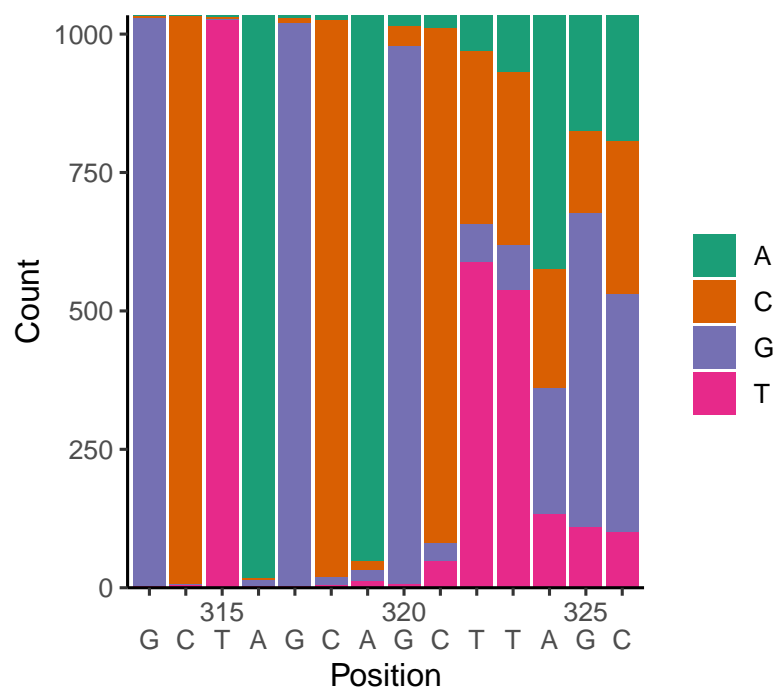


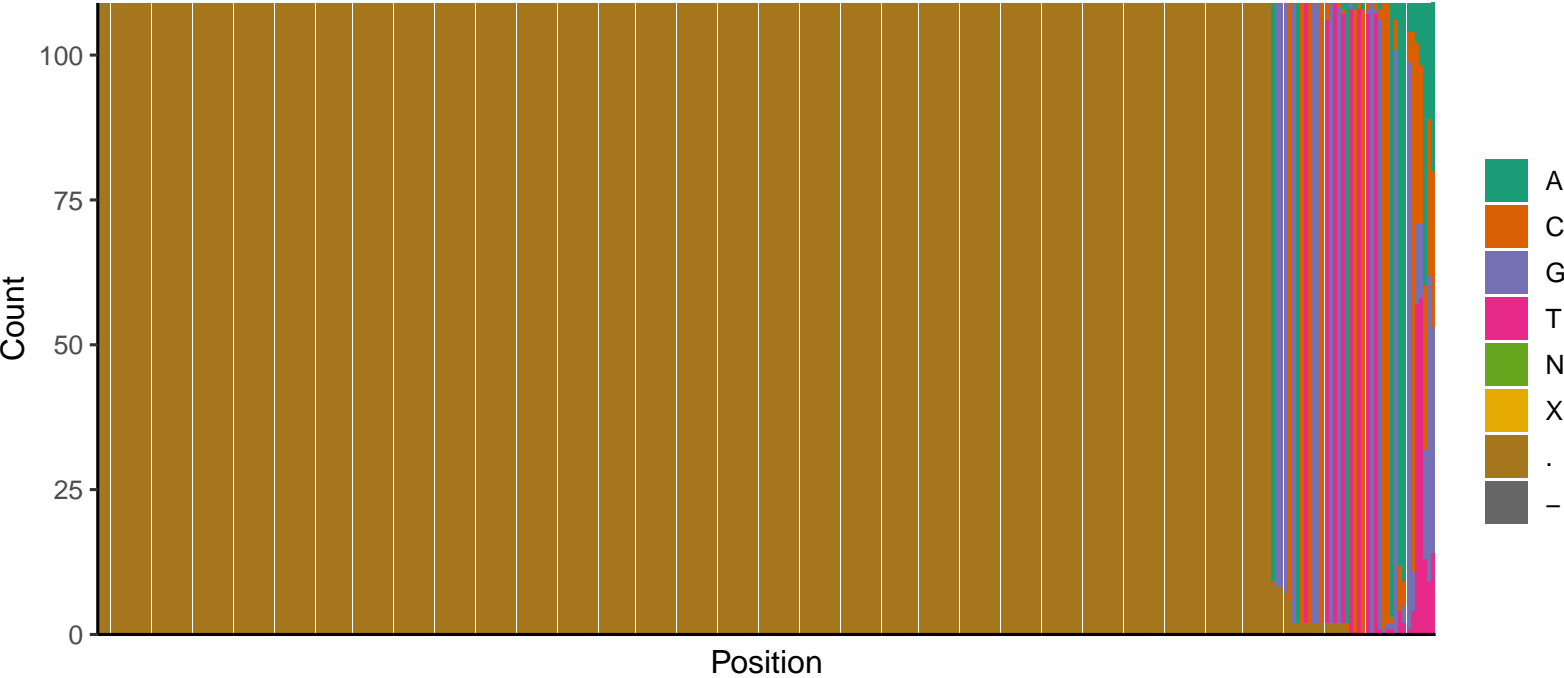
Gene TRBV7-1\*ap01\_G291C\_T296C



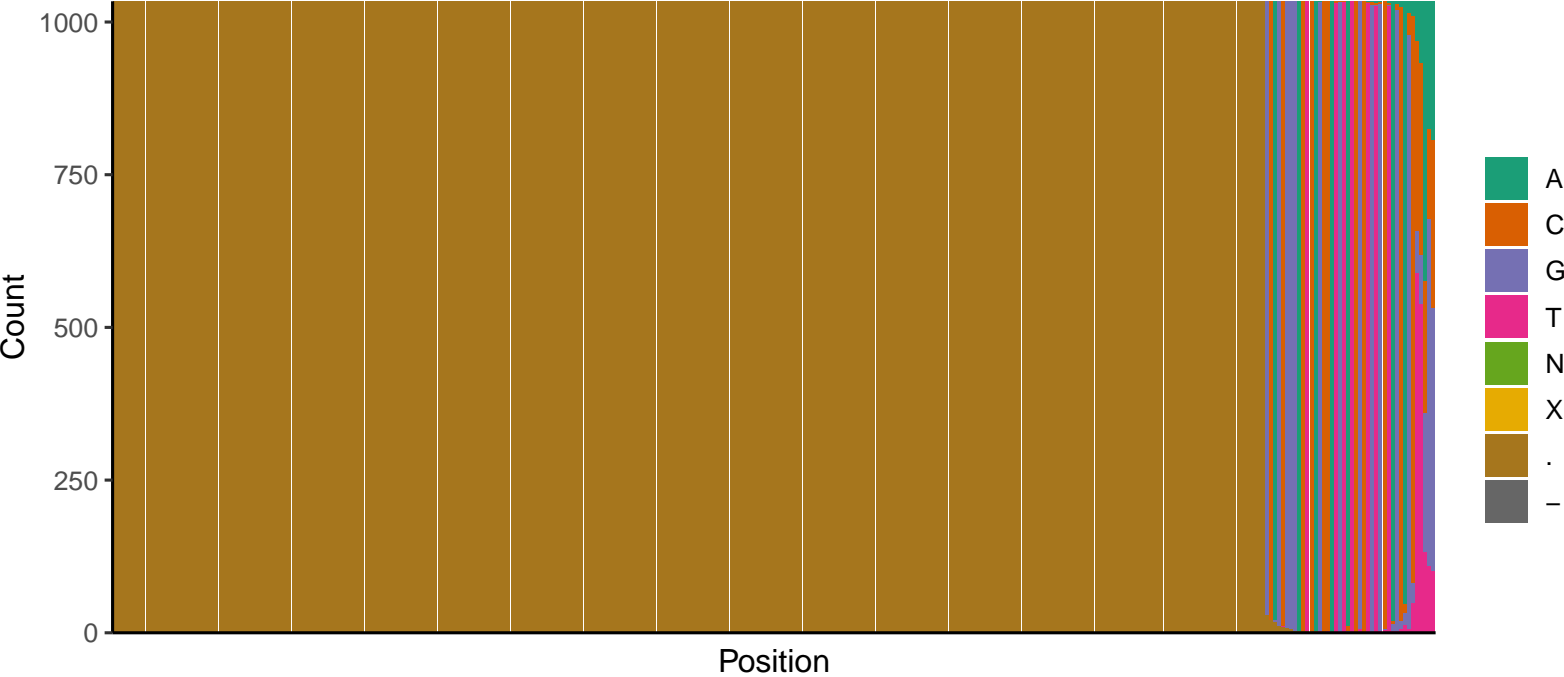
Gene TRBV7-7\*ap01\_C315T



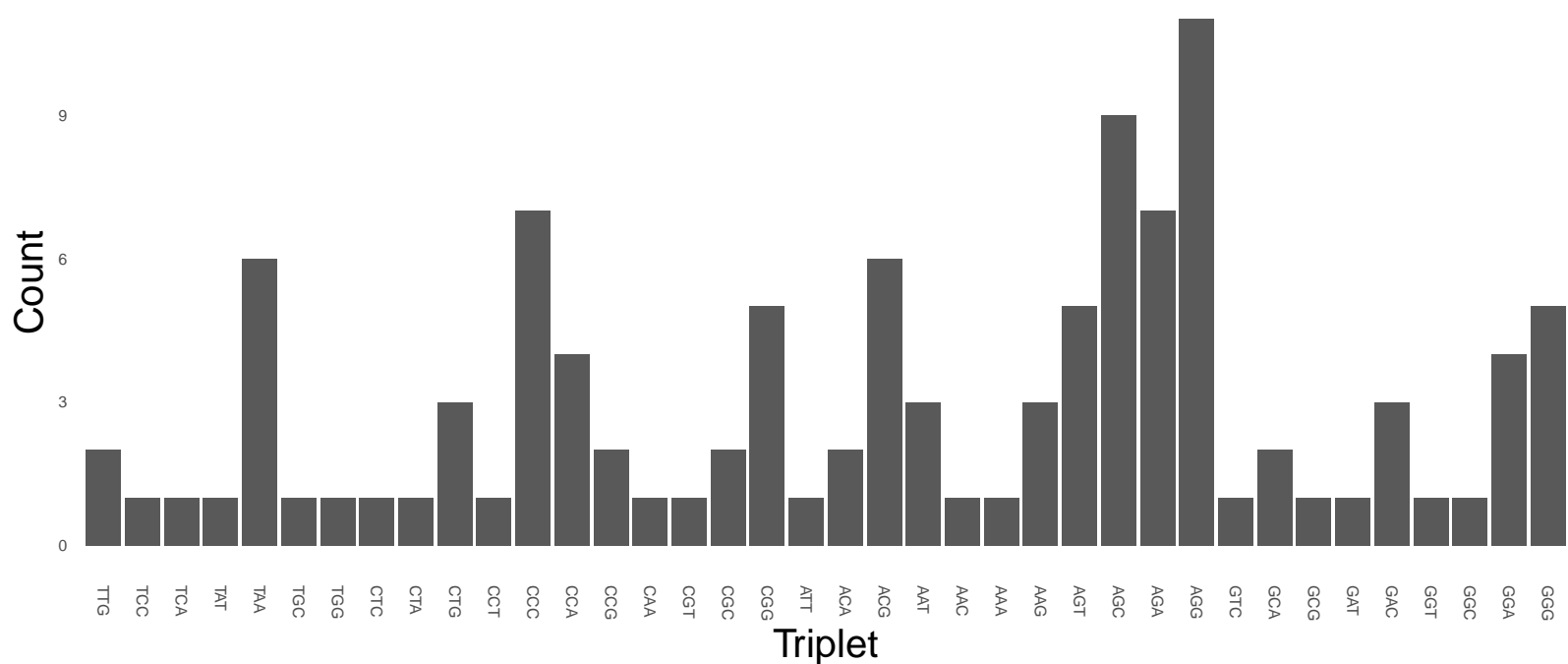
Gene TRBV7-1\*ap01\_G291C\_T296C



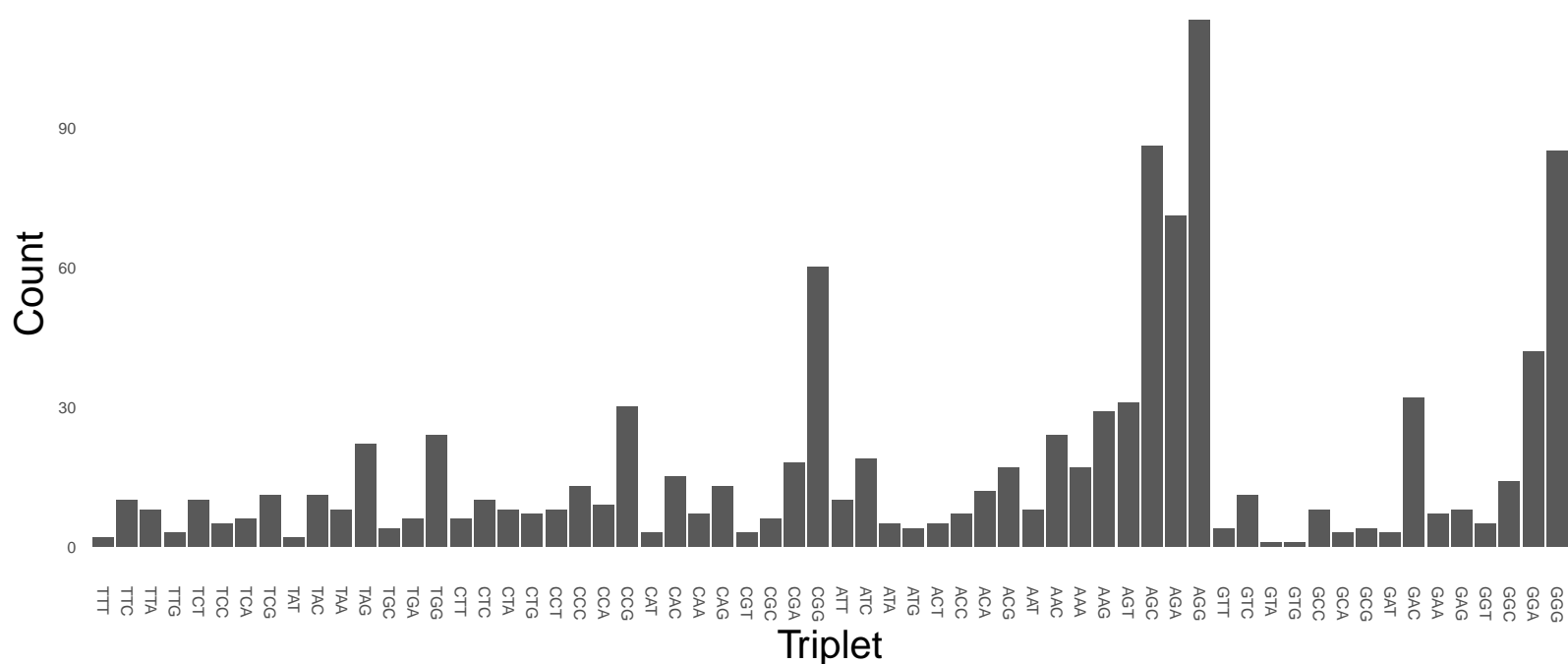
Gene TRBV7-7\*ap01\_C315T



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

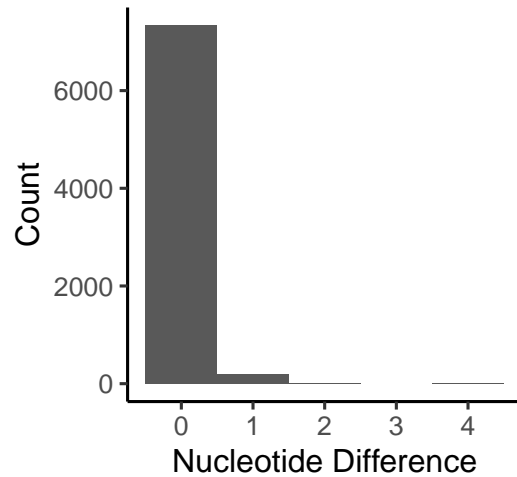


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



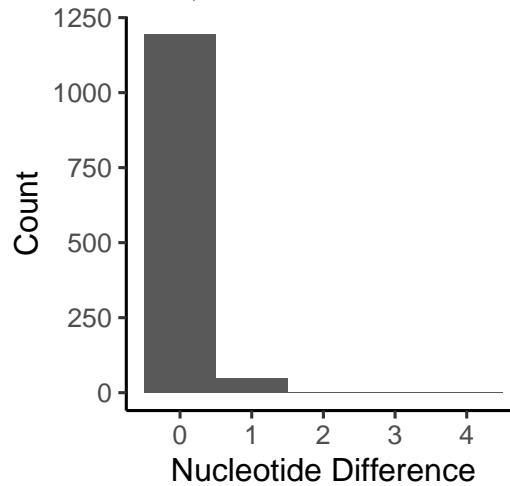
### TRBV20-1\*ap01

7529 sequences assigned  
7335 (97.4%) exact matches, in which:  
7253 unique CDR3  
13 unique J



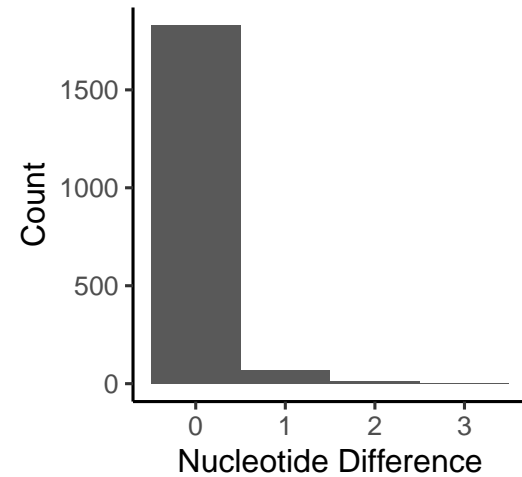
### TRBV10-2\*ap01

1249 sequences assigned  
1194 (95.6%) exact matches, in which:  
1173 unique CDR3  
13 unique J



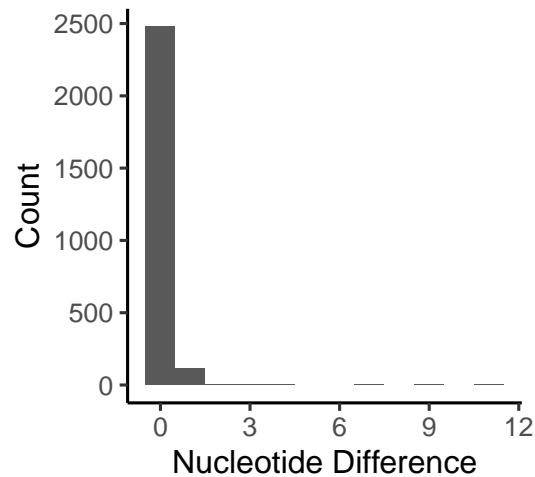
### TRBV13\*ap01

1915 sequences assigned  
1829 (95.5%) exact matches, in which:  
1794 unique CDR3  
13 unique J



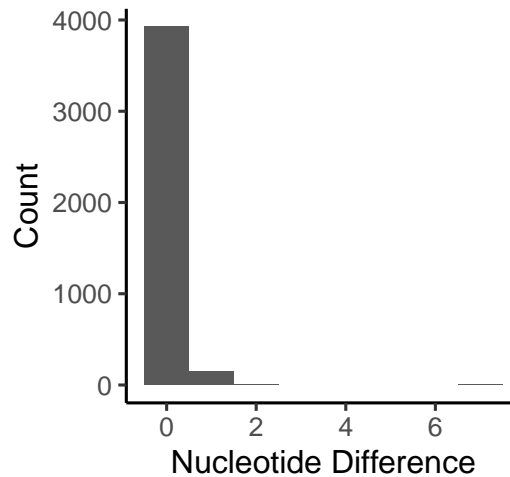
### TRBV10-1\*ap01

2601 sequences assigned  
2478 (95.3%) exact matches, in which:  
2448 unique CDR3  
13 unique J



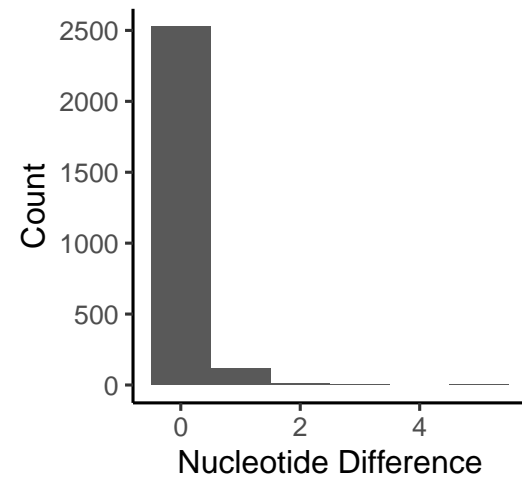
### TRBV10-3\*ap01

4077 sequences assigned  
3926 (96.3%) exact matches, in which:  
3850 unique CDR3  
13 unique J



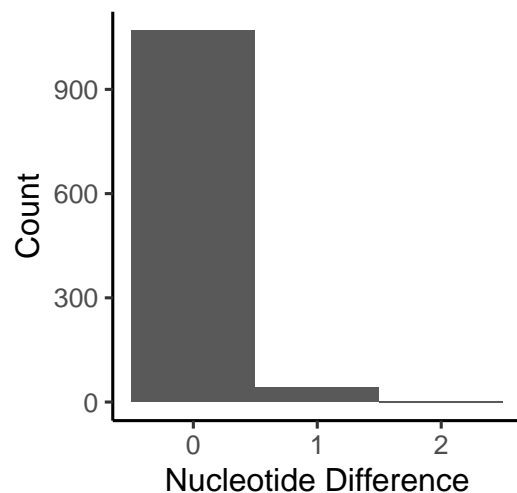
### TRBV14\*ap01

2653 sequences assigned  
2526 (95.2%) exact matches, in which:  
2481 unique CDR3  
13 unique J



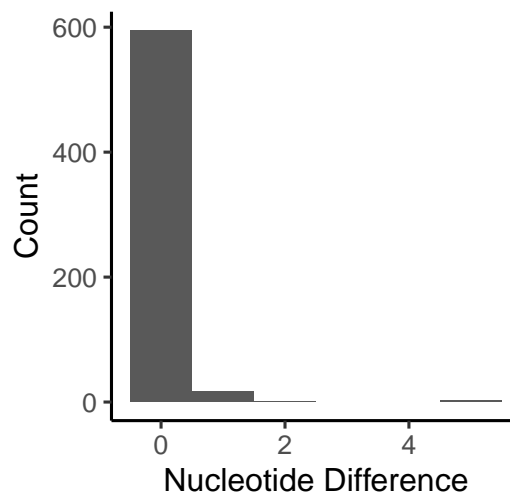
### TRBV20-1\*ap02

1114 sequences assigned  
1070 (96.1%) exact matches, in which:  
1056 unique CDR3  
13 unique J



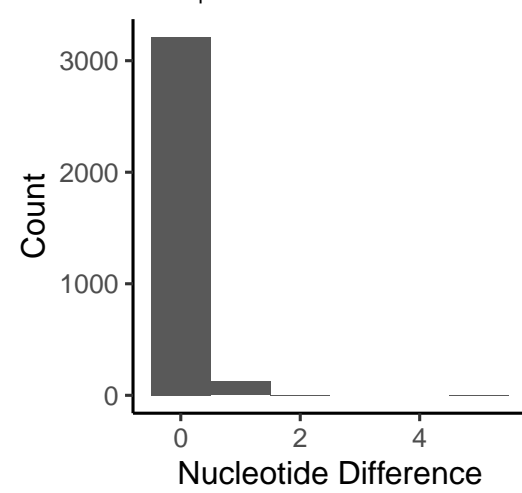
### TRBV1\*ap01

615 sequences assigned  
595 (96.7%) exact matches, in which:  
587 unique CDR3  
13 unique J



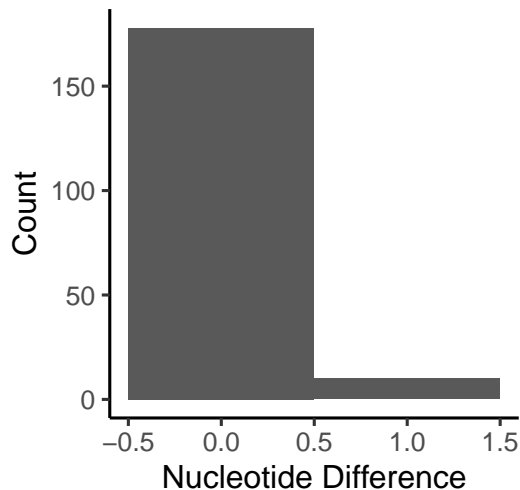
### TRBV15\*ap02

3340 sequences assigned  
3212 (96.2%) exact matches, in which:  
3146 unique CDR3  
13 unique J



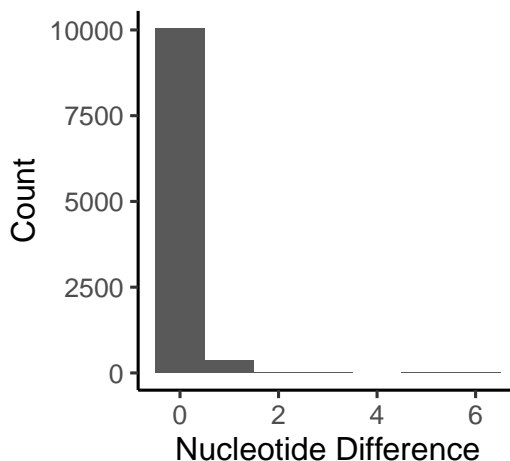
### TRBV16\*ap01

188 sequences assigned  
178 (94.7%) exact matches, in which:  
174 unique CDR3  
13 unique J



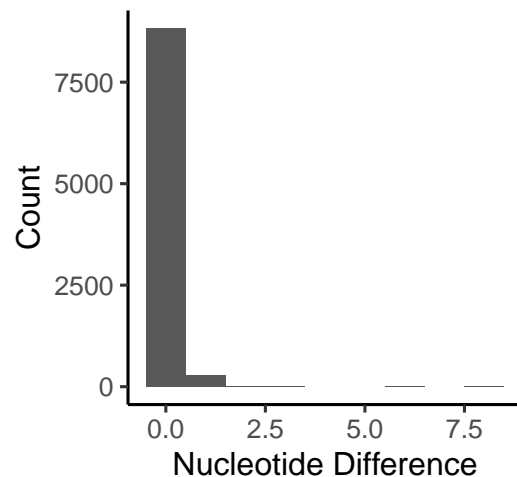
### TRBV19\*ap01

10434 sequences assigned  
10052 (96.3%) exact matches, in which:  
9881 unique CDR3  
13 unique J



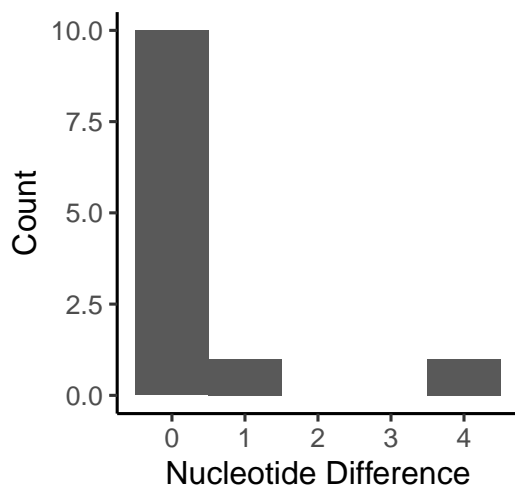
### TRBV27\*ap01

9115 sequences assigned  
8824 (96.8%) exact matches, in which:  
8665 unique CDR3  
13 unique J



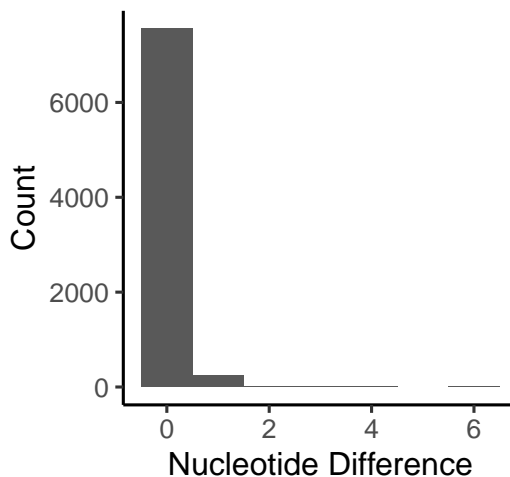
### TRBV17\*ap01

12 sequences assigned  
10 (83.3%) exact matches, in which:  
10 unique CDR3  
5 unique J



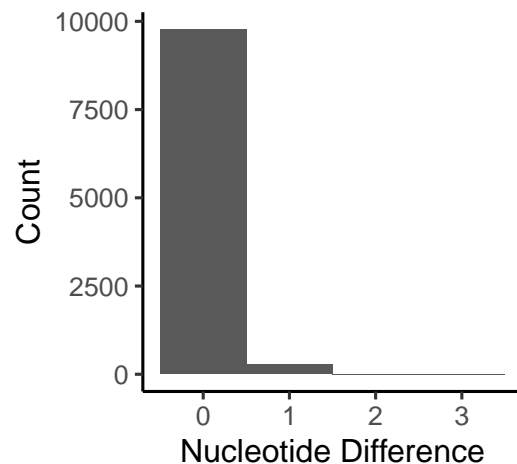
### TRBV2\*ap01

7815 sequences assigned  
7554 (96.7%) exact matches, in which:  
7455 unique CDR3  
13 unique J



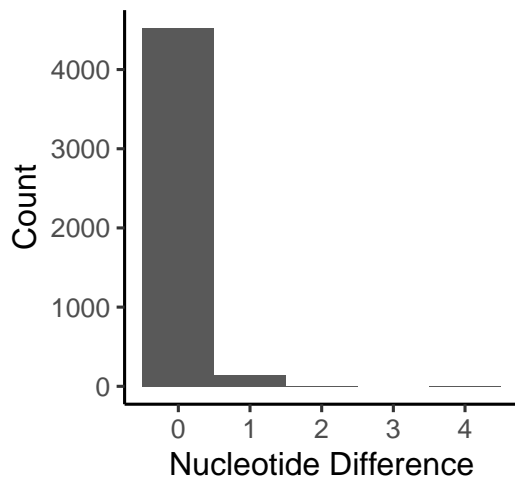
### TRBV28\*ap01

10060 sequences assigned  
9770 (97.1%) exact matches, in which:  
9619 unique CDR3  
13 unique J



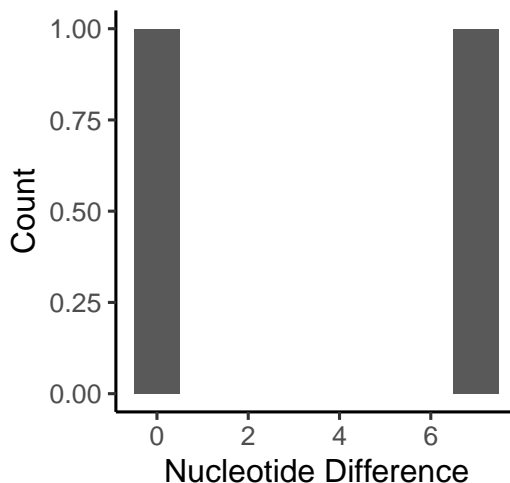
### TRBV18\*ap01

4667 sequences assigned  
4524 (96.9%) exact matches, in which:  
4441 unique CDR3  
13 unique J



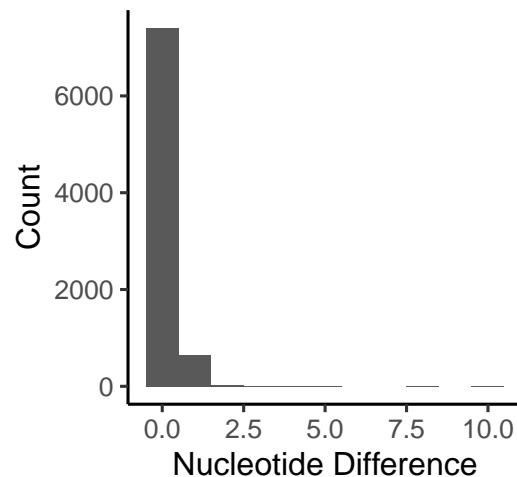
### TRBV26\*ap01

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



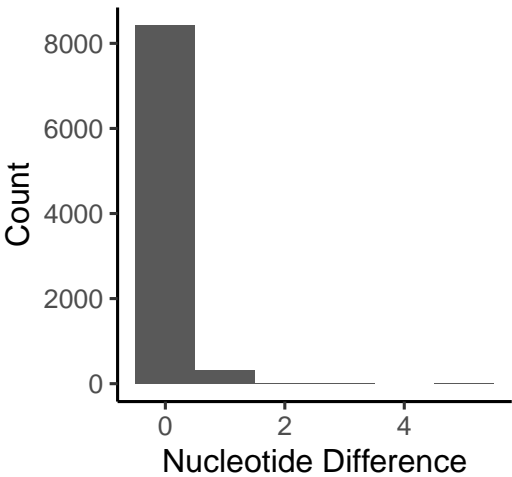
### TRBV30\*ap02

8077 sequences assigned  
7402 (91.6%) exact matches, in which:  
7218 unique CDR3  
13 unique J



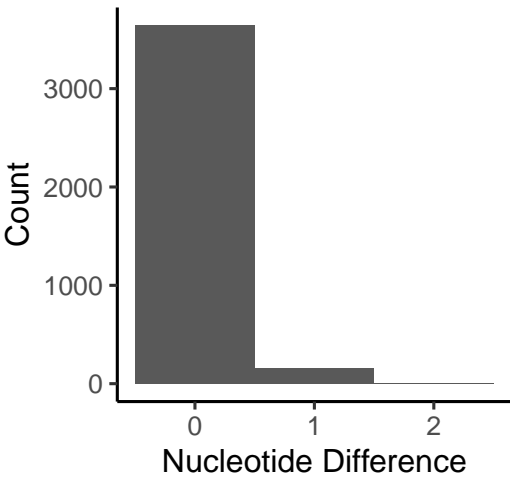
TRBV9\*ap01

8760 sequences assigned  
8422 (96.1%) exact matches, in which:  
8278 unique CDR3  
13 unique J



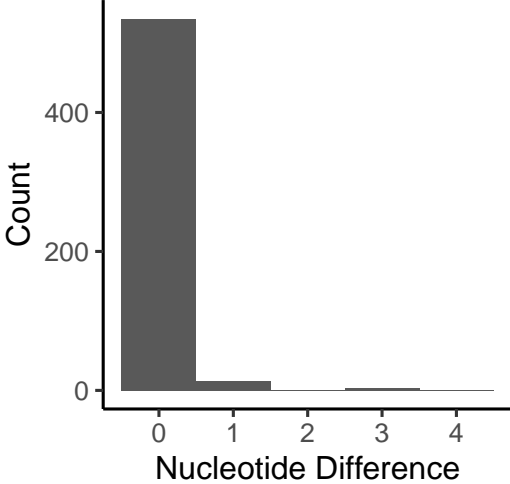
TRBV11-2\*ap01

3800 sequences assigned  
3643 (95.9%) exact matches, in which:  
3542 unique CDR3  
13 unique J



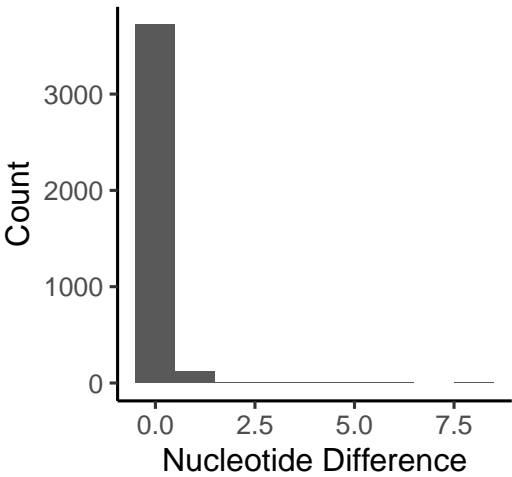
TRBV12-2\*ap01

555 sequences assigned  
535 (96.4%) exact matches, in which:  
525 unique CDR3  
13 unique J



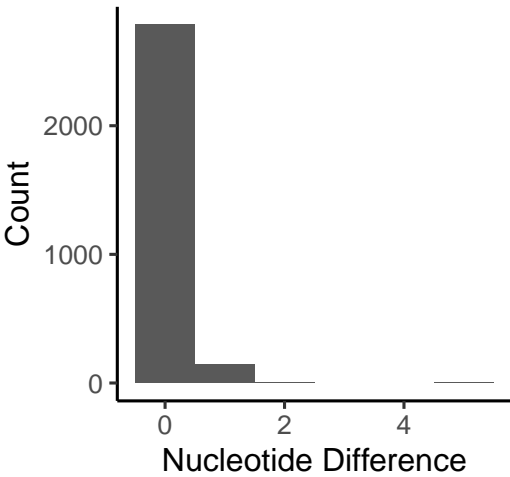
TRBV21-1\*ap01

3862 sequences assigned  
3720 (96.3%) exact matches, in which:  
3651 unique CDR3  
13 unique J



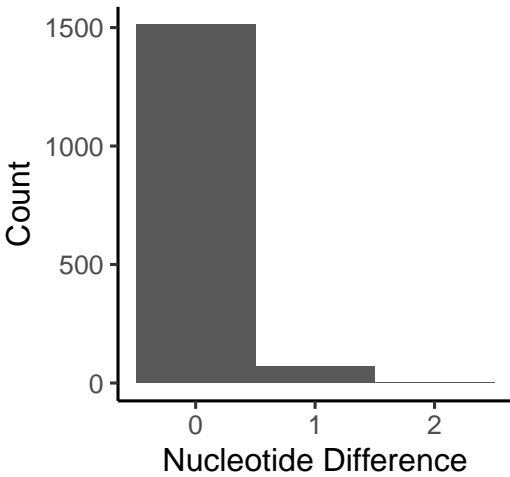
TRBV11-3\*ap01

2929 sequences assigned  
2785 (95.1%) exact matches, in which:  
2722 unique CDR3  
13 unique J



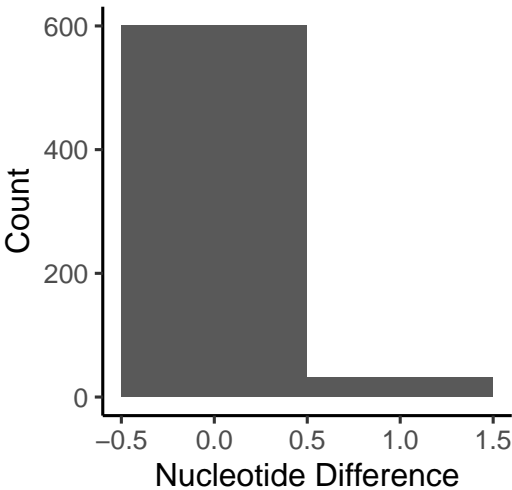
TRBV12-5\*ap01

1583 sequences assigned  
1512 (95.5%) exact matches, in which:  
1489 unique CDR3  
13 unique J



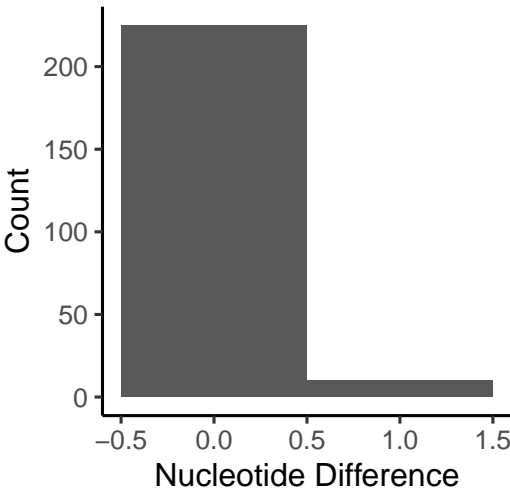
TRBV11-1\*ap01

633 sequences assigned  
601 (94.9%) exact matches, in which:  
581 unique CDR3  
13 unique J



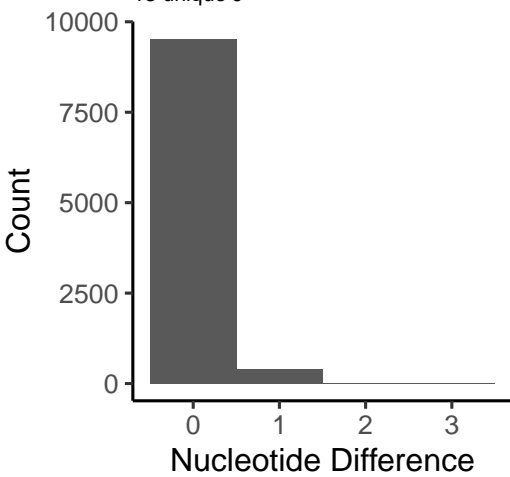
TRBV12-1\*ap01

235 sequences assigned  
225 (95.7%) exact matches, in which:  
220 unique CDR3  
13 unique J



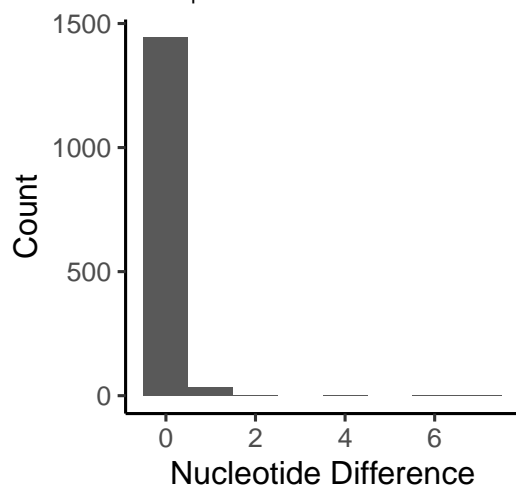
TRBV12-34\*ap01

9962 sequences assigned  
9530 (95.7%) exact matches, in which:  
9381 unique CDR3  
13 unique J



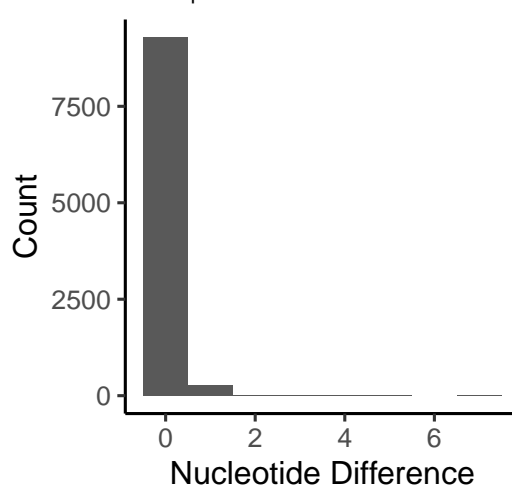
### TRBV23-1\*ap01

1484 sequences assigned  
1444 (97.3%) exact matches, in which:  
1415 unique CDR3  
13 unique J



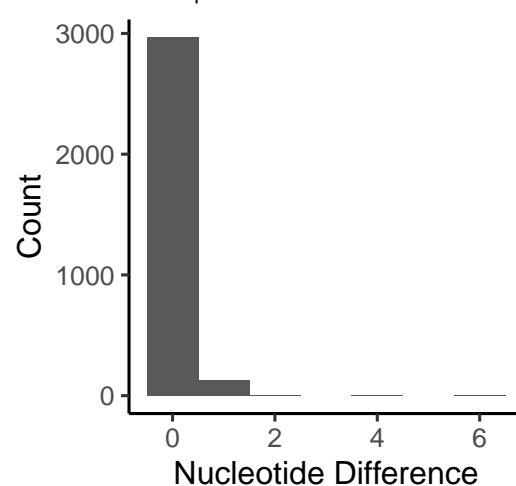
### TRBV24-1\*ap01

9589 sequences assigned  
9286 (96.8%) exact matches, in which:  
9123 unique CDR3  
13 unique J



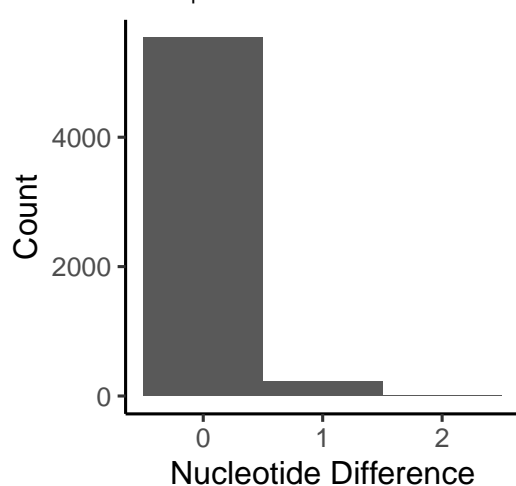
### TRBV25-1\*ap01

3104 sequences assigned  
2967 (95.6%) exact matches, in which:  
2917 unique CDR3  
13 unique J



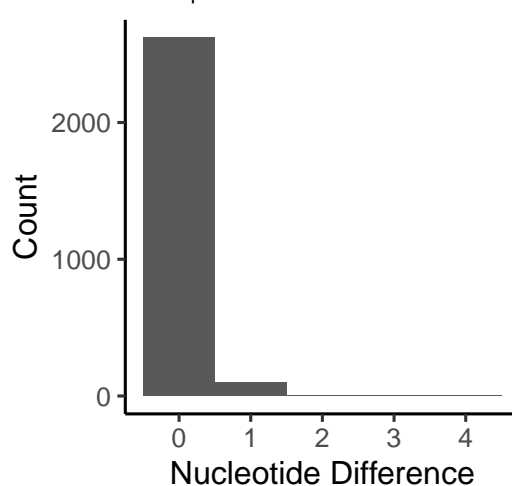
### TRBV3-12\*ap01

5773 sequences assigned  
5538 (95.9%) exact matches, in which:  
5436 unique CDR3  
13 unique J



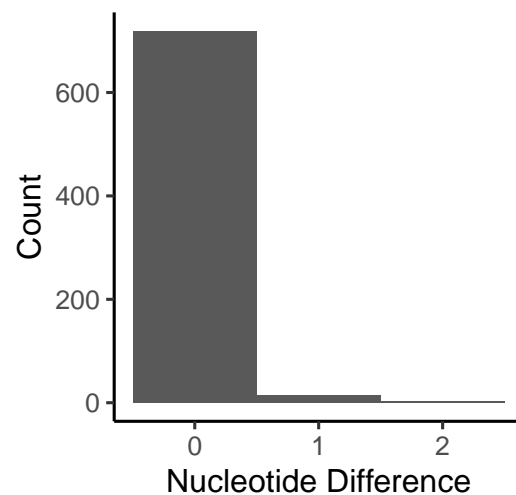
### TRBV4-2\*ap01

2724 sequences assigned  
2620 (96.2%) exact matches, in which:  
2546 unique CDR3  
13 unique J



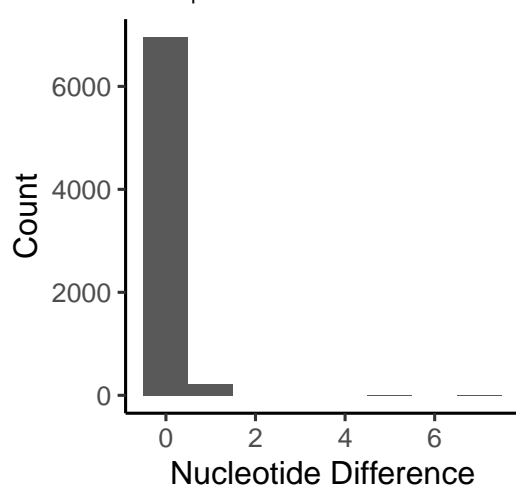
### TRBV5-3\*ap01

736 sequences assigned  
719 (97.7%) exact matches, in which:  
710 unique CDR3  
13 unique J



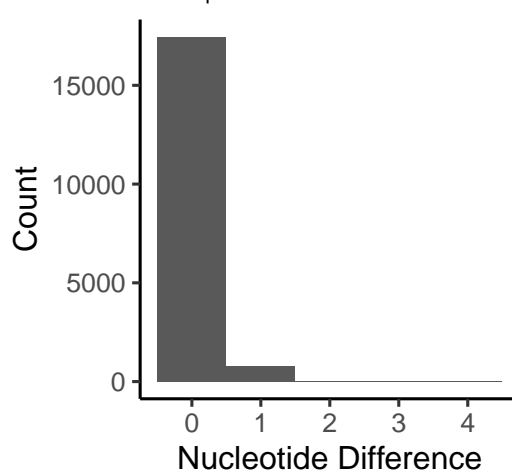
### TRBV4-1\*ap01

7185 sequences assigned  
6958 (96.8%) exact matches, in which:  
6836 unique CDR3  
13 unique J



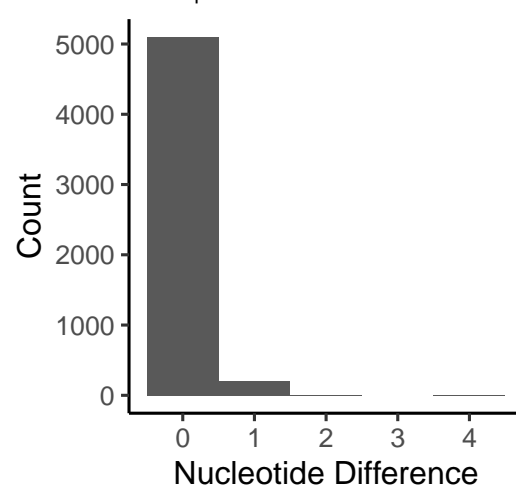
### TRBV5-1\*ap01

18242 sequences assigned  
17458 (95.7%) exact matches, in which:  
17161 unique CDR3  
13 unique J



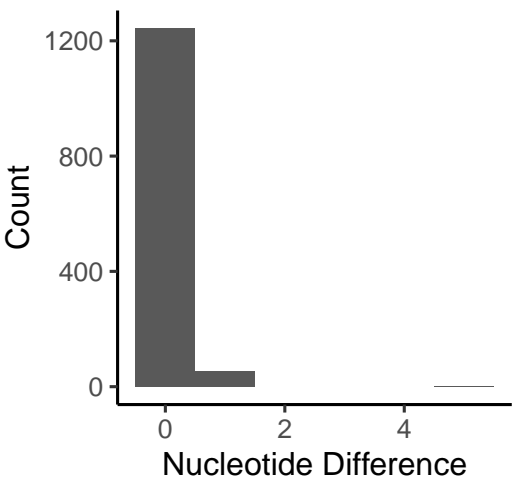
### TRBV5-4\*ap01

5312 sequences assigned  
5099 (96%) exact matches, in which:  
5018 unique CDR3  
13 unique J



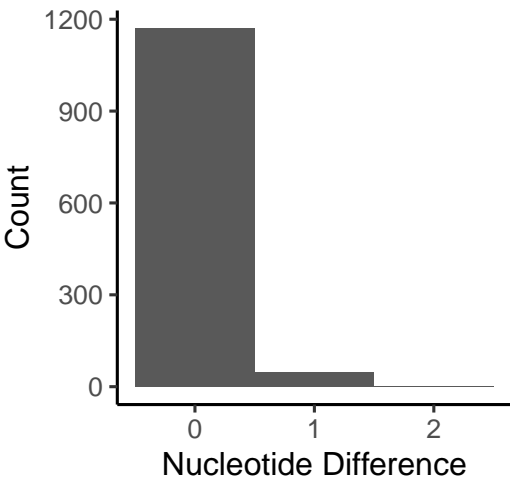
TRBV5-5\*ap01

1297 sequences assigned  
1243 (95.8%) exact matches, in which:  
1208 unique CDR3  
13 unique J



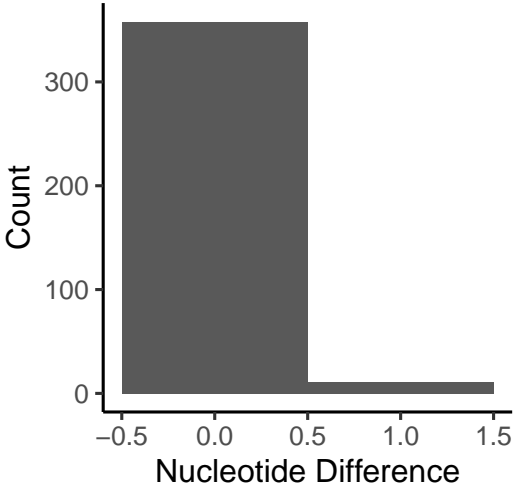
TRBV5-8\*ap01

1218 sequences assigned  
1170 (96.1%) exact matches, in which:  
1157 unique CDR3  
13 unique J



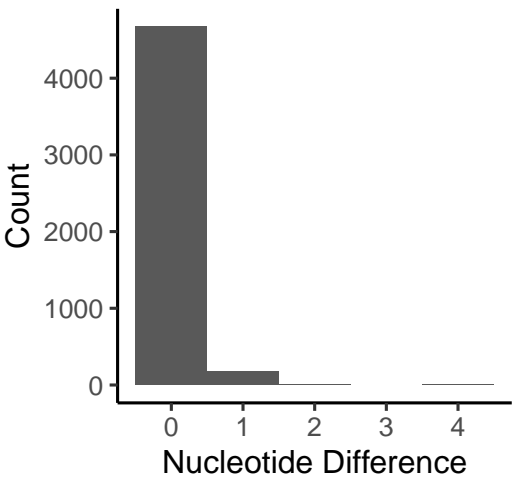
TRBV6-7\*ap01

369 sequences assigned  
358 (97%) exact matches, in which:  
349 unique CDR3  
13 unique J



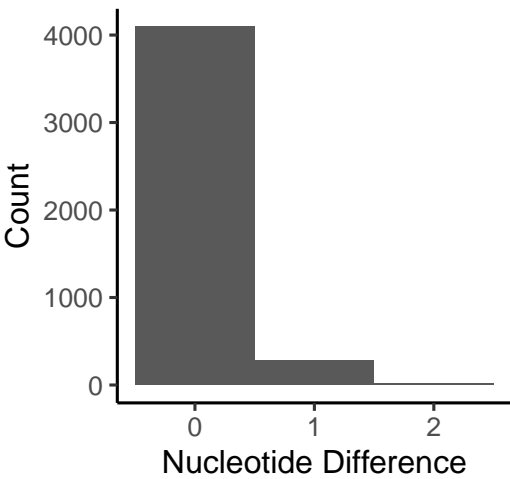
TRBV5-6\*ap01

4851 sequences assigned  
4671 (96.3%) exact matches, in which:  
4547 unique CDR3  
13 unique J



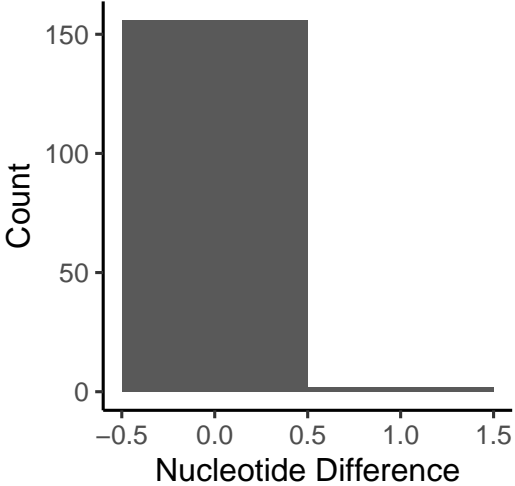
TRBV6-1\*ap01

4383 sequences assigned  
4095 (93.4%) exact matches, in which:  
4017 unique CDR3  
13 unique J



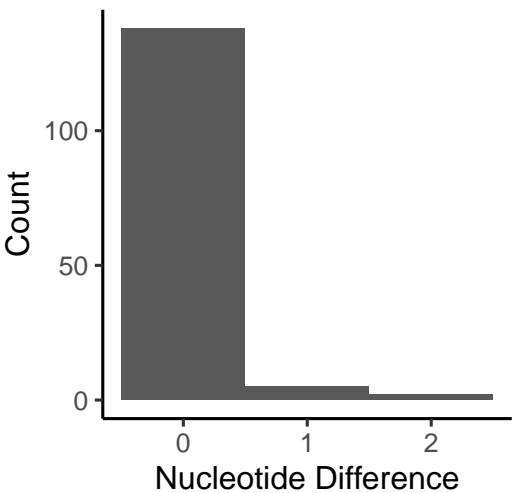
TRBV6-8\*ap01

158 sequences assigned  
156 (98.7%) exact matches, in which:  
154 unique CDR3  
13 unique J



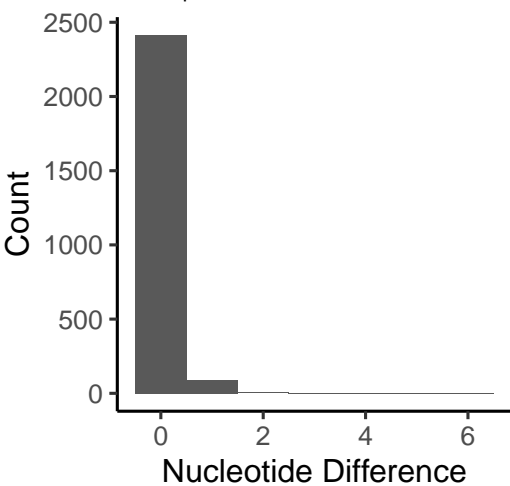
TRBV5-7\*ap01

145 sequences assigned  
138 (95.2%) exact matches, in which:  
132 unique CDR3  
13 unique J



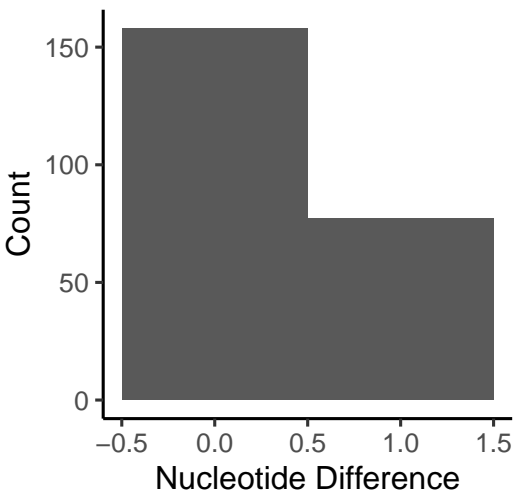
TRBV6-4\*ap01

2516 sequences assigned  
2414 (95.9%) exact matches, in which:  
2387 unique CDR3  
13 unique J



TRBV6-9\*ap01

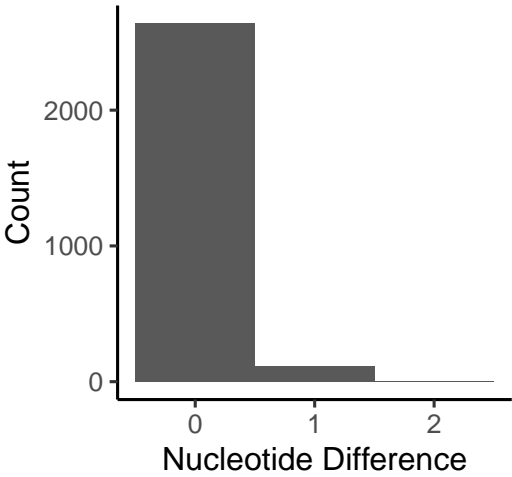
235 sequences assigned  
158 (67.2%) exact matches, in which:  
156 unique CDR3  
13 unique J





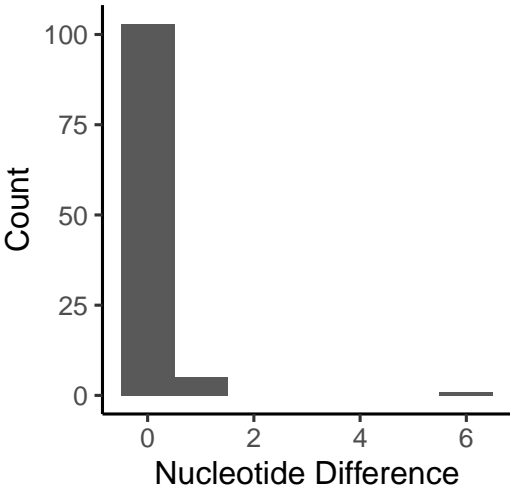
TRBV6-23\*ap01

2755 sequences assigned  
2639 (95.8%) exact matches, in which:  
2582 unique CDR3  
13 unique J



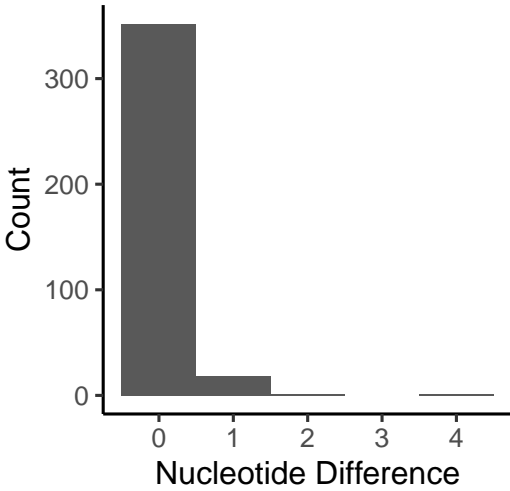
TRBV7-1\*ap01\_G291C\_

109 sequences assigned  
103 (94.5%) exact matches, in which:  
101 unique CDR3  
12 unique J



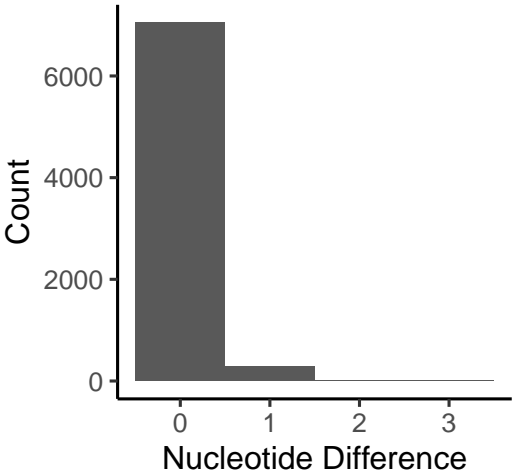
TRBV7-4\*ap01

372 sequences assigned  
352 (94.6%) exact matches, in which:  
343 unique CDR3  
13 unique J



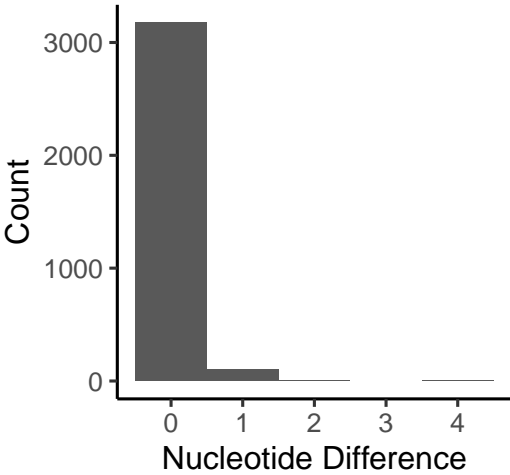
TRBV6-56\*ap01

7354 sequences assigned  
7047 (95.8%) exact matches, in which:  
6893 unique CDR3  
13 unique J



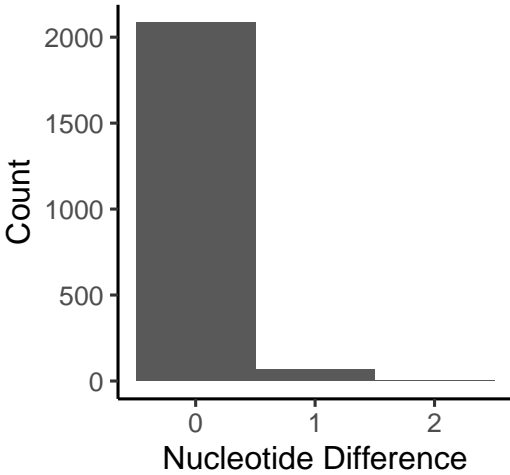
TRBV7-2\*ap01

3280 sequences assigned  
3175 (96.8%) exact matches, in which:  
3117 unique CDR3  
13 unique J



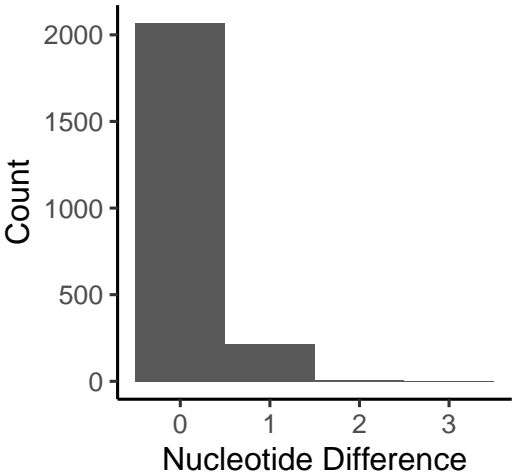
TRBV7-6\*ap01

2154 sequences assigned  
2084 (96.8%) exact matches, in which:  
2039 unique CDR3  
13 unique J



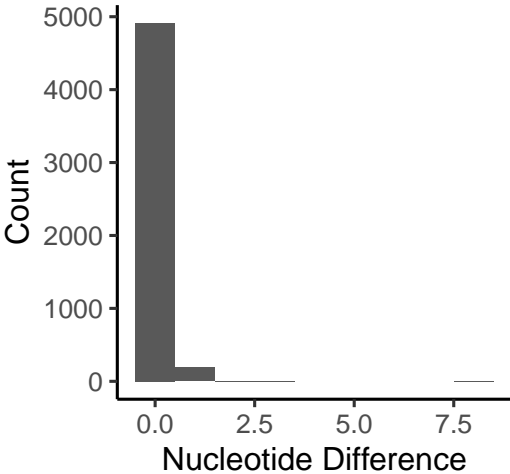
TRBV6-56\*ap02

2293 sequences assigned  
2068 (90.2%) exact matches, in which:  
2030 unique CDR3  
14 unique J



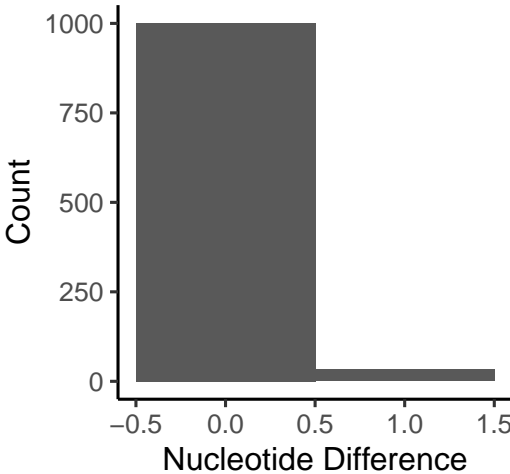
TRBV7-3\*ap01

5111 sequences assigned  
4913 (96.1%) exact matches, in which:  
4810 unique CDR3  
13 unique J



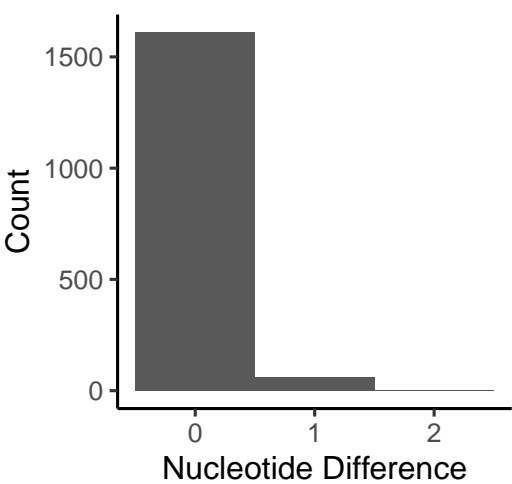
TRBV7-7\*ap01\_C315T

1034 sequences assigned  
1001 (96.8%) exact matches, in which:  
988 unique CDR3  
13 unique J



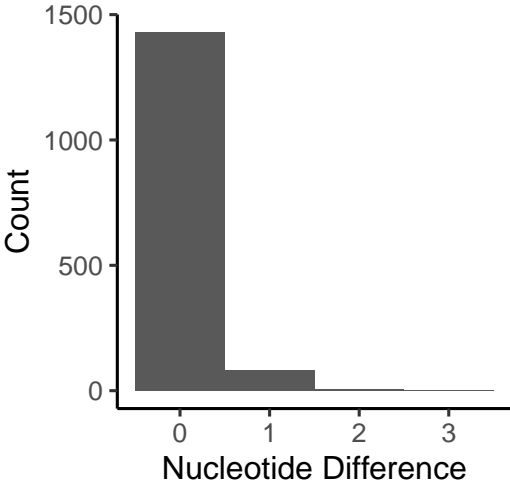
TRBV7-8\*ap01

1672 sequences assigned  
1610 (96.3%) exact matches, in which:  
1575 unique CDR3  
13 unique J



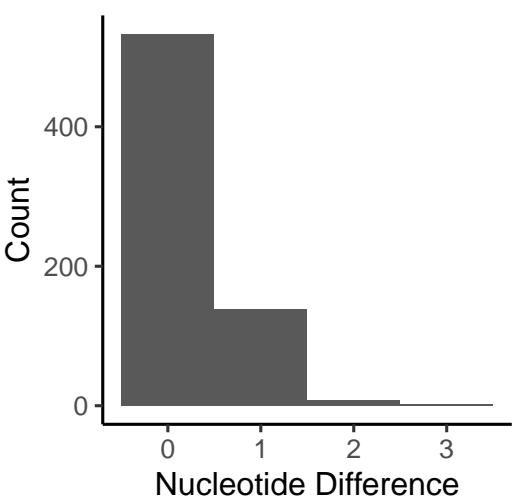
TRBV29-1\*ap01

1517 sequences assigned  
1429 (94.2%) exact matches, in which:  
1399 unique CDR3  
13 unique J



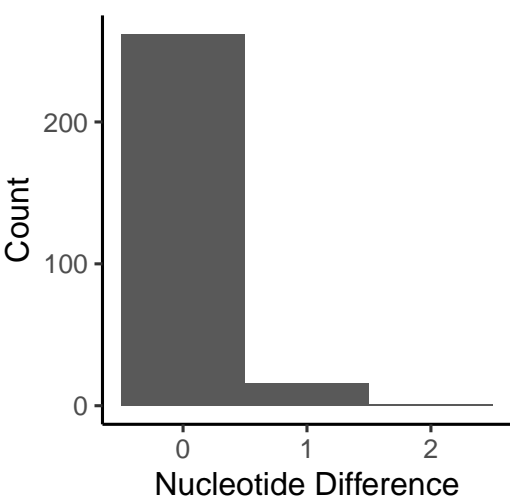
TRBV7-8\*ap03

681 sequences assigned  
533 (78.3%) exact matches, in which:  
522 unique CDR3  
13 unique J



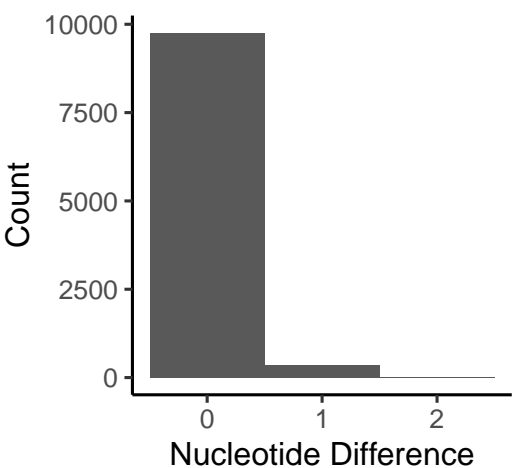
TRBV29-1\*ap02

279 sequences assigned  
262 (93.9%) exact matches, in which:  
260 unique CDR3  
13 unique J

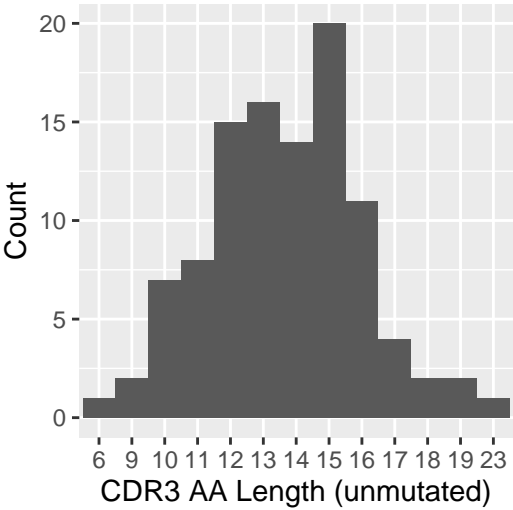


TRBV7-9\*ap01

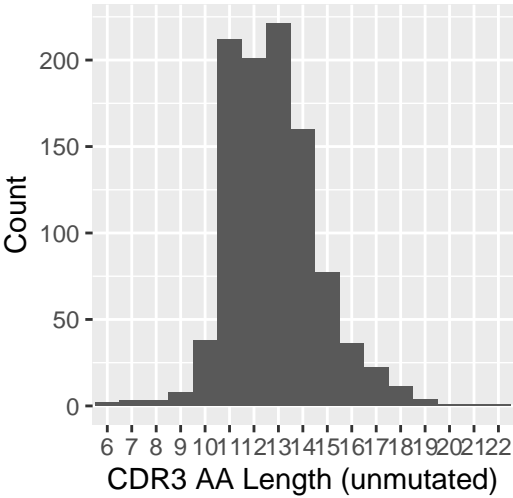
10121 sequences assigned  
9759 (96.4%) exact matches, in which:  
9605 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]