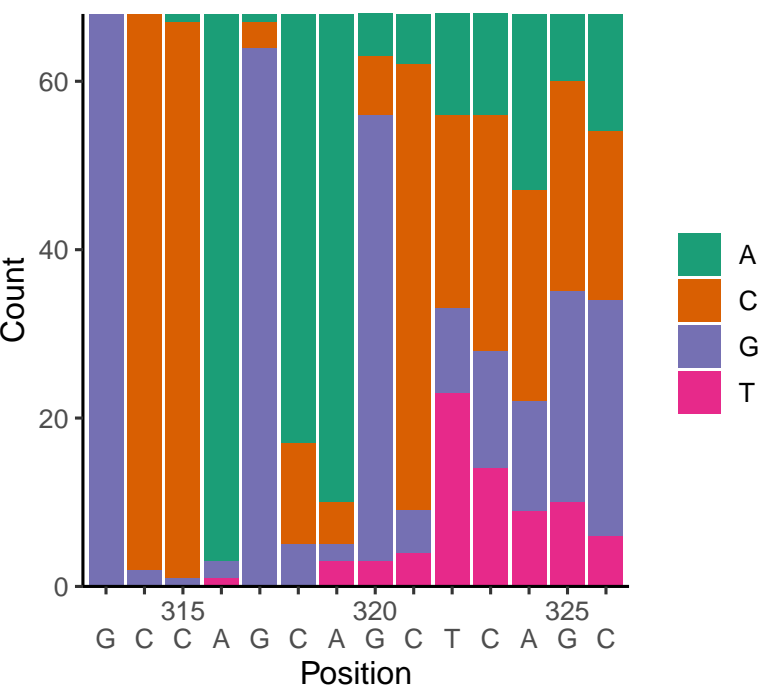
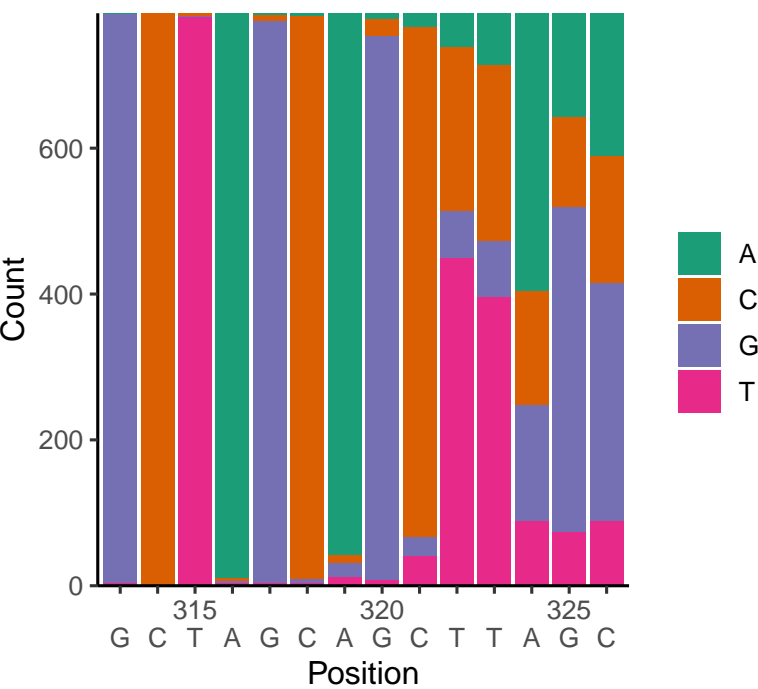


Gene TRBV7-1\*ap01\_T296C



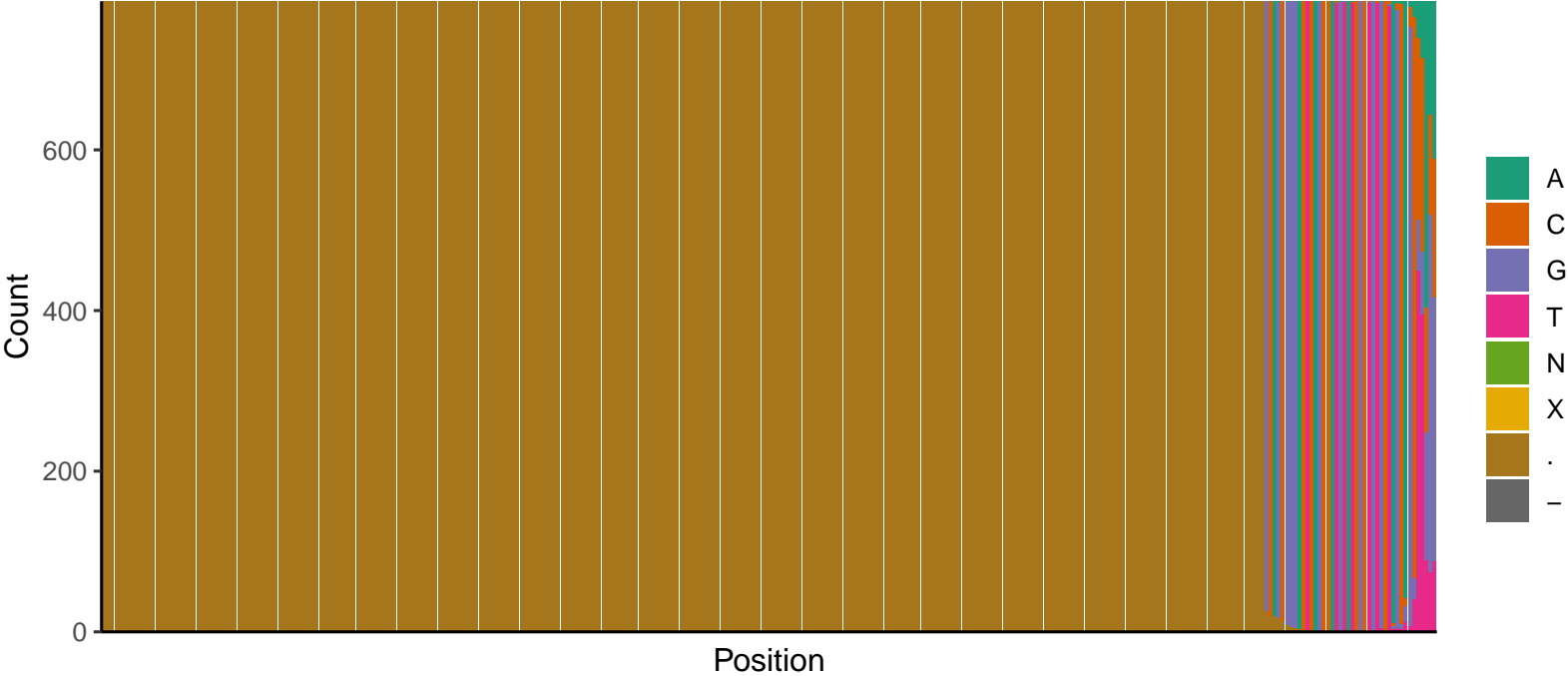
Gene TRBV7-7\*ap01\_C315T



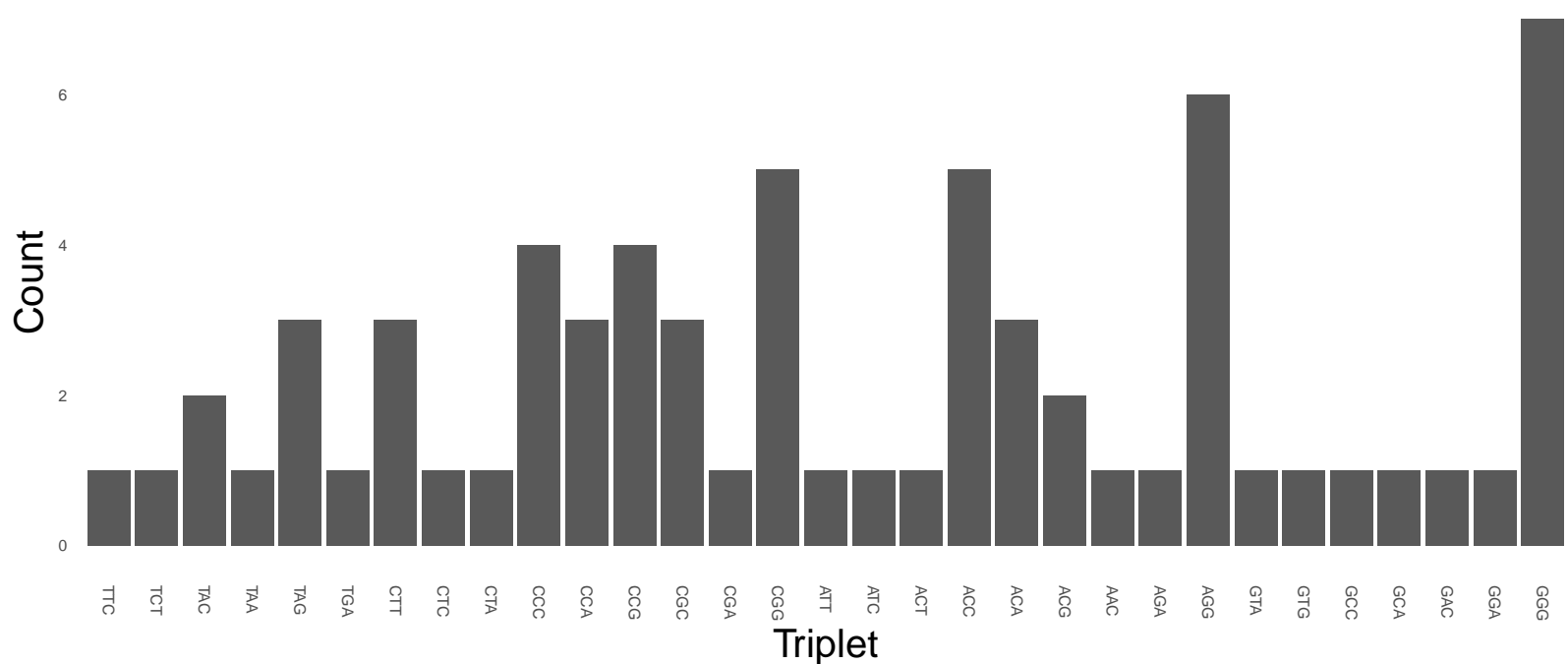
Gene TRBV7-1\*ap01\_T296C



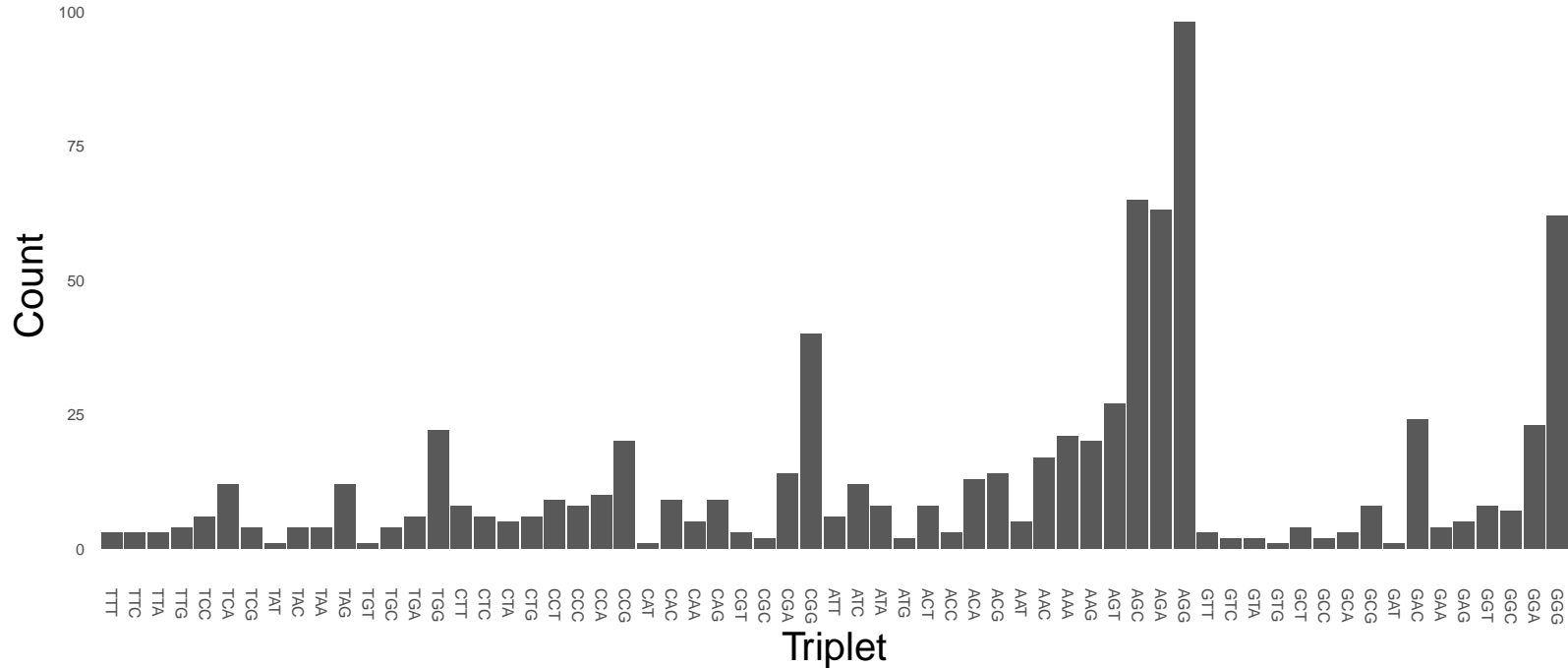
Gene TRBV7-7\*ap01\_C315T



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

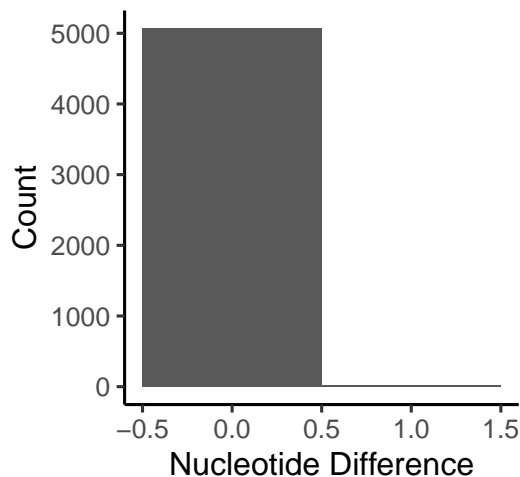


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



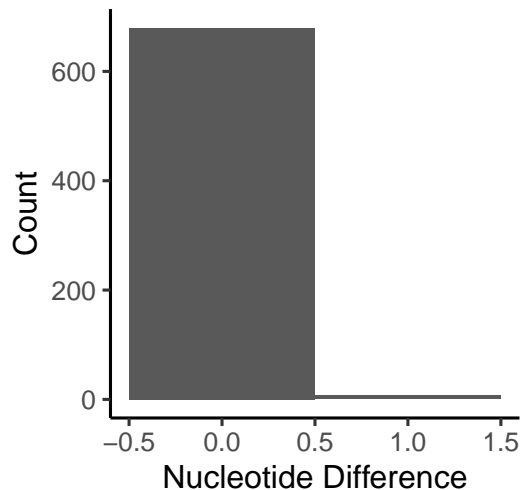
### TRBV20-1\*ap01

5097 sequences assigned  
5069 (99.5%) exact matches, in which:  
5018 unique CDR3  
13 unique J



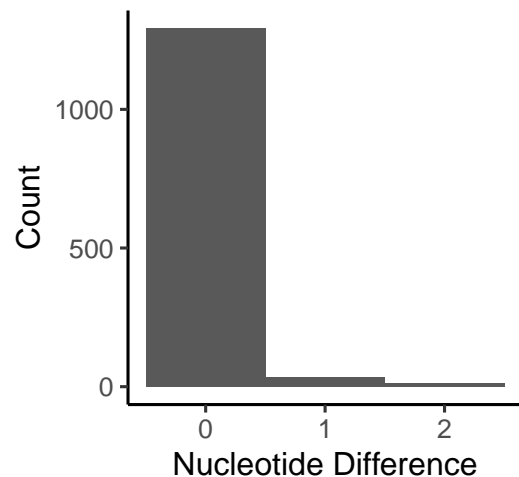
### TRBV10-2\*ap01

687 sequences assigned  
680 (99%) exact matches, in which:  
675 unique CDR3  
13 unique J



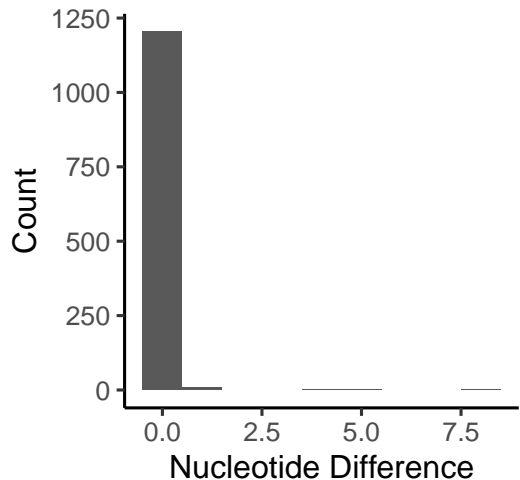
### TRBV13\*ap01

1338 sequences assigned  
1292 (96.6%) exact matches, in which:  
1270 unique CDR3  
13 unique J



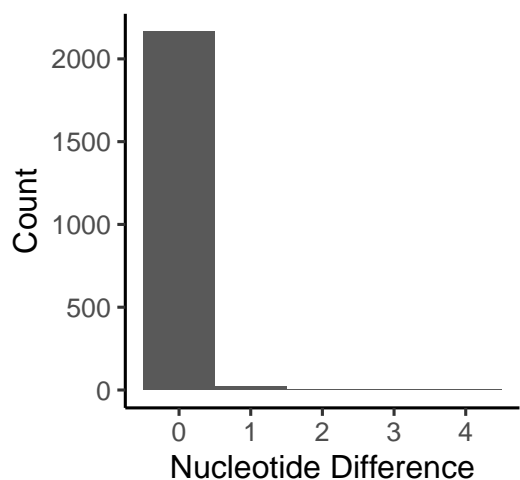
### TRBV10-1\*ap01

1216 sequences assigned  
1204 (99%) exact matches, in which:  
1188 unique CDR3  
13 unique J



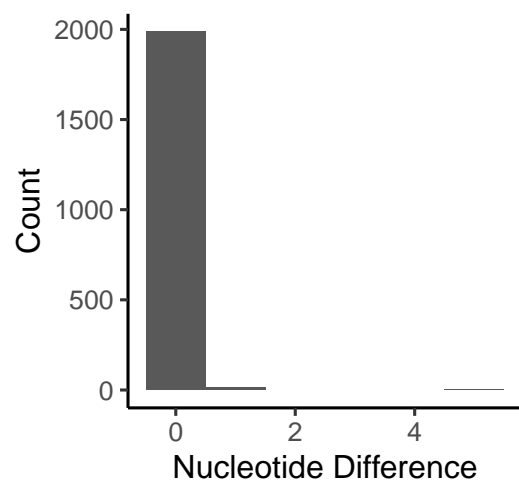
### TRBV10-3\*ap01

2190 sequences assigned  
2164 (98.8%) exact matches, in which:  
2127 unique CDR3  
13 unique J



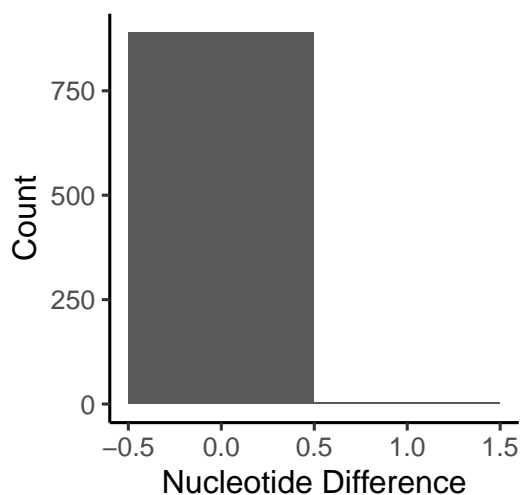
### TRBV14\*ap01

2000 sequences assigned  
1987 (99.3%) exact matches, in which:  
1964 unique CDR3  
13 unique J



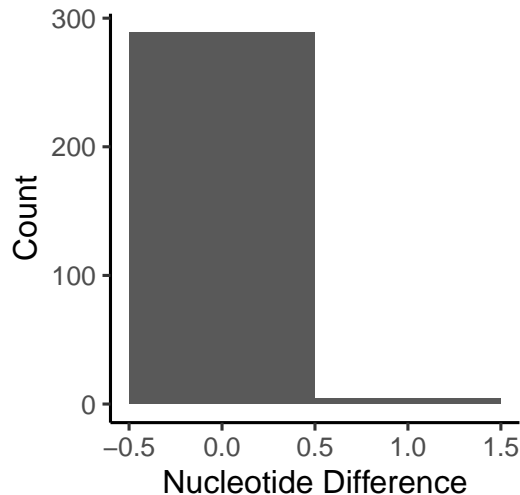
### TRBV20-1\*ap02

894 sequences assigned  
890 (99.6%) exact matches, in which:  
885 unique CDR3  
13 unique J



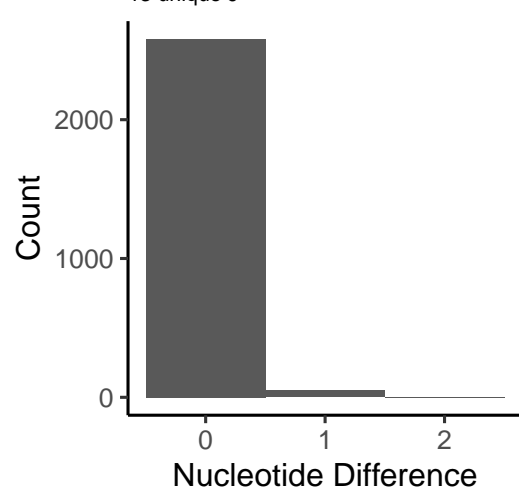
### TRBV1\*ap01

293 sequences assigned  
289 (98.6%) exact matches, in which:  
285 unique CDR3  
13 unique J



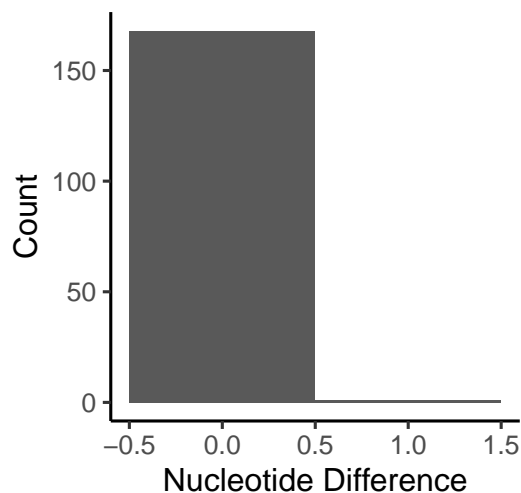
### TRBV15\*ap02

2633 sequences assigned  
2581 (98%) exact matches, in which:  
2543 unique CDR3  
13 unique J



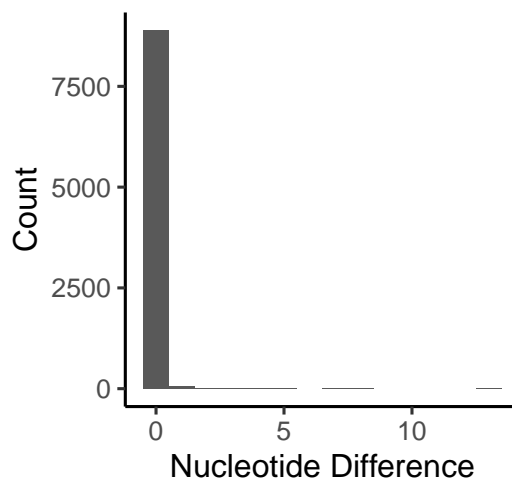
### TRBV16\*ap01

169 sequences assigned  
168 (99.4%) exact matches, in which:  
167 unique CDR3  
13 unique J



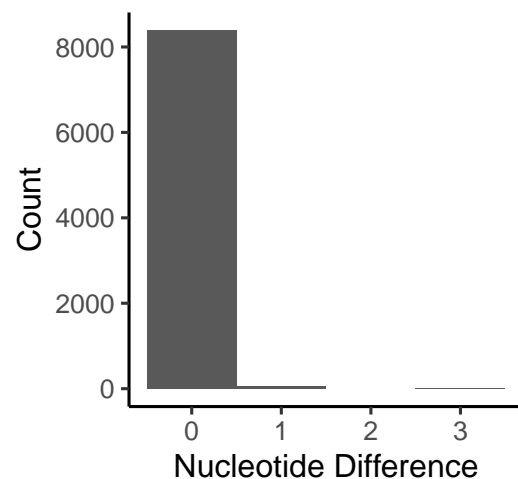
### TRBV19\*ap01

8967 sequences assigned  
8888 (99.1%) exact matches, in which:  
8816 unique CDR3  
13 unique J



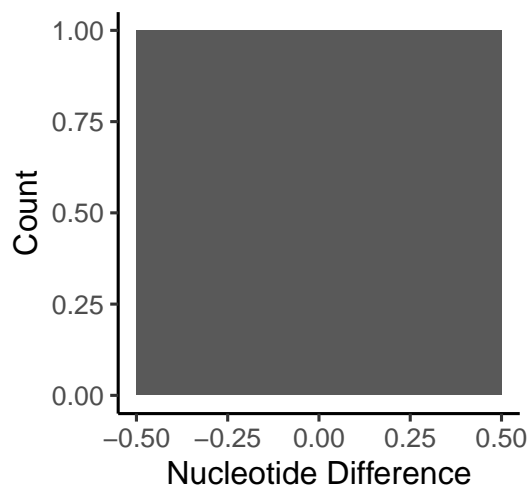
### TRBV28\*ap01

8449 sequences assigned  
8388 (99.3%) exact matches, in which:  
8299 unique CDR3  
13 unique J



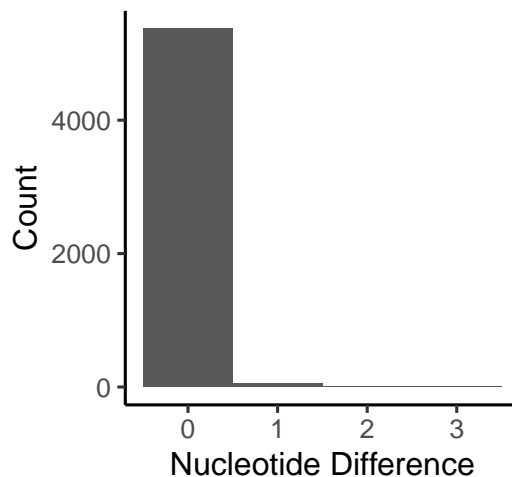
### TRBV17\*ap01

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



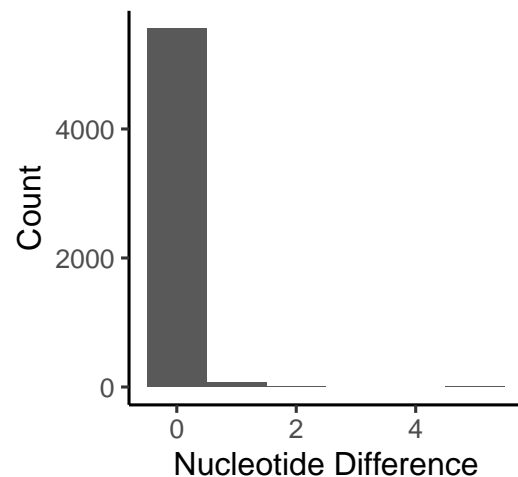
### TRBV2\*ap01

5424 sequences assigned  
5371 (99%) exact matches, in which:  
5301 unique CDR3  
13 unique J



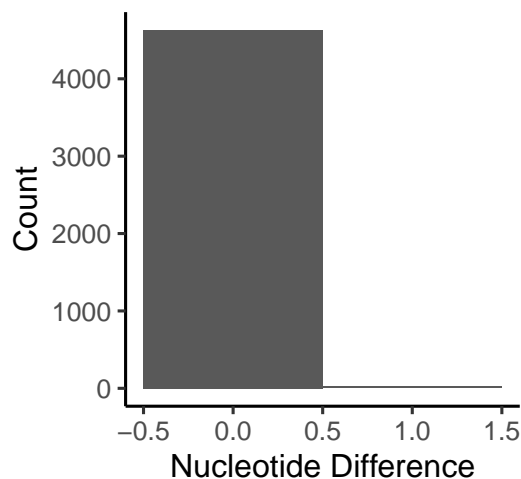
### TRBV30\*ap01

5623 sequences assigned  
5554 (98.8%) exact matches, in which:  
5440 unique CDR3  
13 unique J



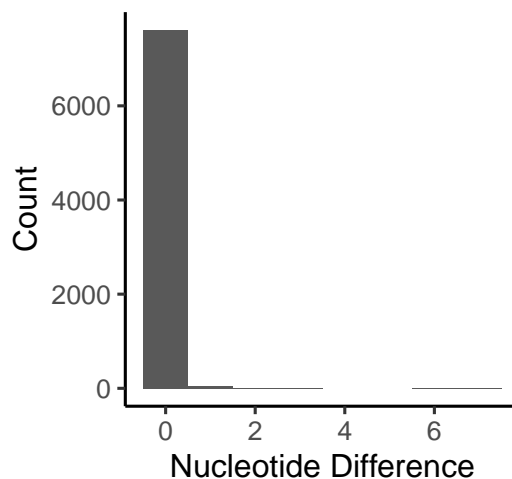
### TRBV18\*ap01

4653 sequences assigned  
4630 (99.5%) exact matches, in which:  
4599 unique CDR3  
13 unique J



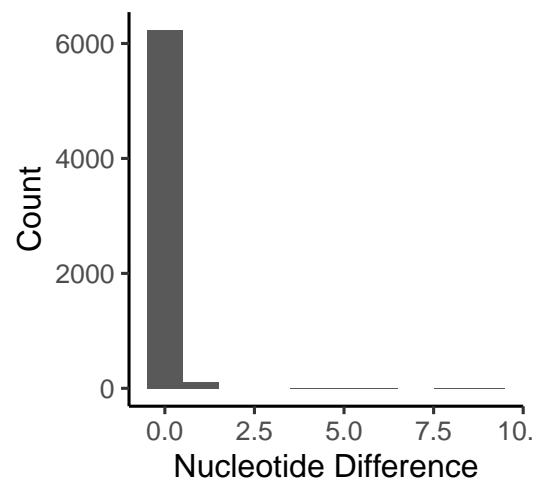
### TRBV27\*ap01

7671 sequences assigned  
7610 (99.2%) exact matches, in which:  
7518 unique CDR3  
13 unique J



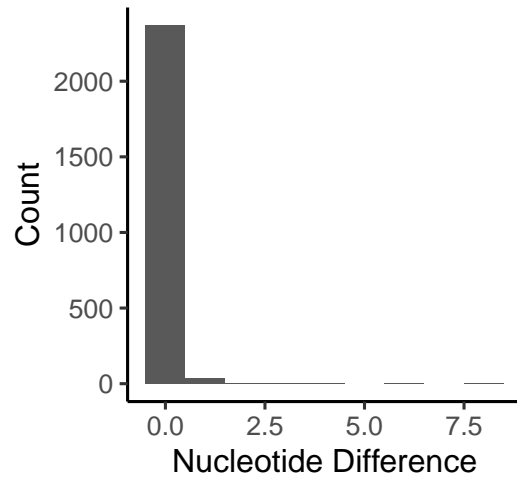
### TRBV9\*ap01

6345 sequences assigned  
6234 (98.3%) exact matches, in which:  
6168 unique CDR3  
13 unique J



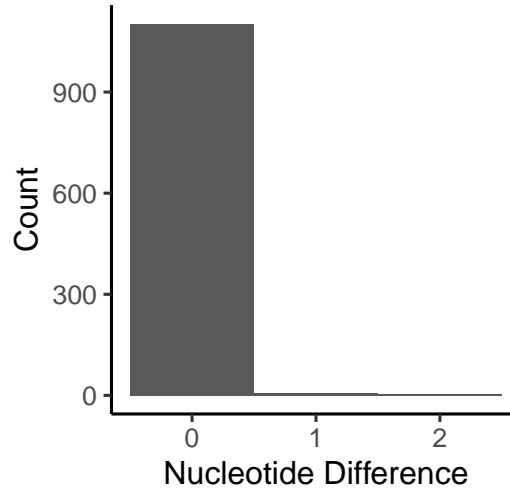
### TRBV21-1\*ap01

2415 sequences assigned  
2369 (98.1%) exact matches, in which:  
2347 unique CDR3  
13 unique J



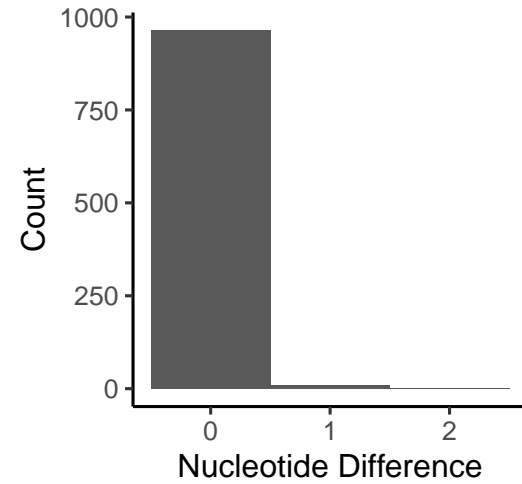
### TRBV11-3\*ap01

1112 sequences assigned  
1103 (99.2%) exact matches, in which:  
1097 unique CDR3  
13 unique J



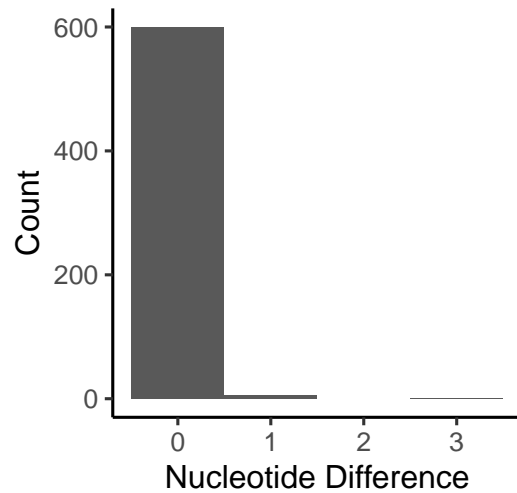
### TRBV12-5\*ap01

975 sequences assigned  
964 (98.9%) exact matches, in which:  
947 unique CDR3  
13 unique J



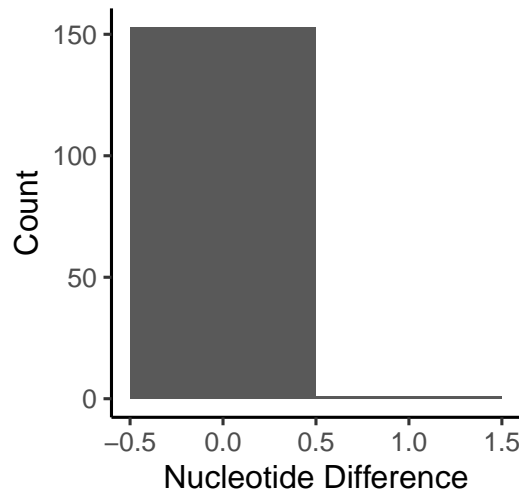
### TRBV11-1\*ap01

606 sequences assigned  
600 (99%) exact matches, in which:  
597 unique CDR3  
13 unique J



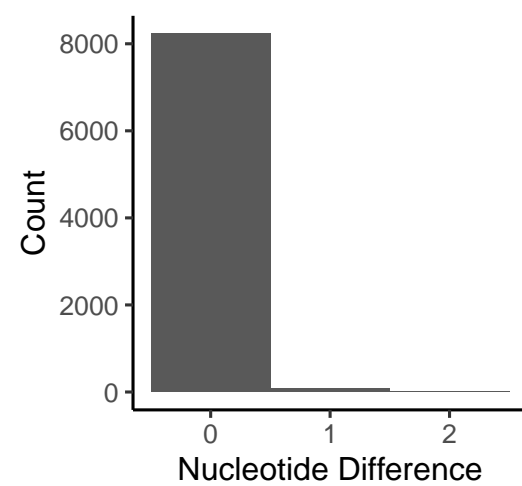
### TRBV12-1\*ap01

154 sequences assigned  
153 (99.4%) exact matches, in which:  
150 unique CDR3  
13 unique J



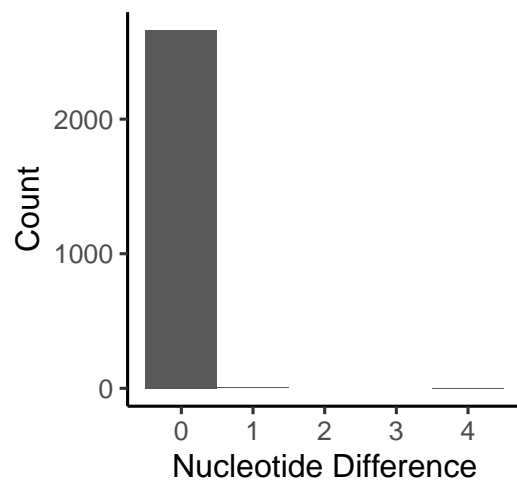
### TRBV12-34\*ap01

8319 sequences assigned  
8231 (98.9%) exact matches, in which:  
8121 unique CDR3  
13 unique J



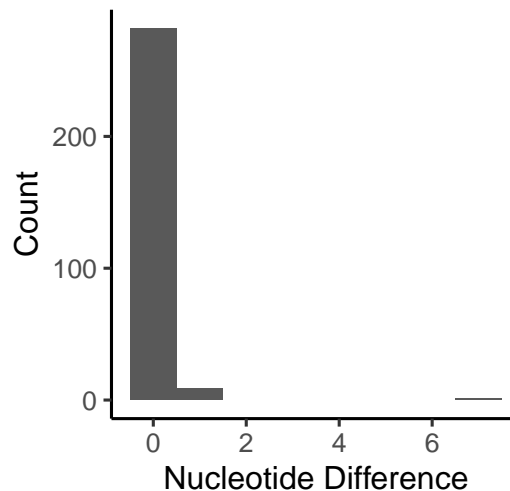
### TRBV11-2\*ap01

2670 sequences assigned  
2662 (99.7%) exact matches, in which:  
2647 unique CDR3  
13 unique J



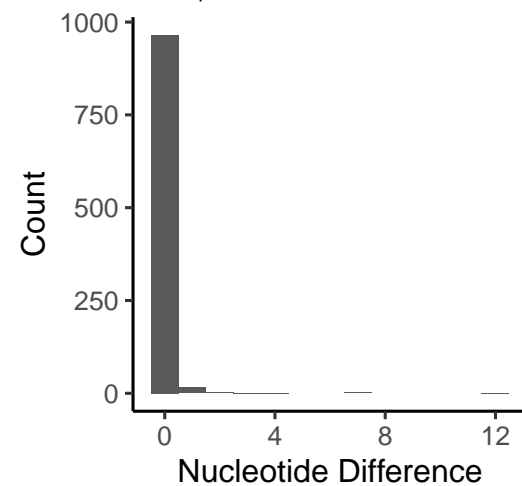
### TRBV12-2\*ap01

292 sequences assigned  
282 (96.6%) exact matches, in which:  
281 unique CDR3  
13 unique J



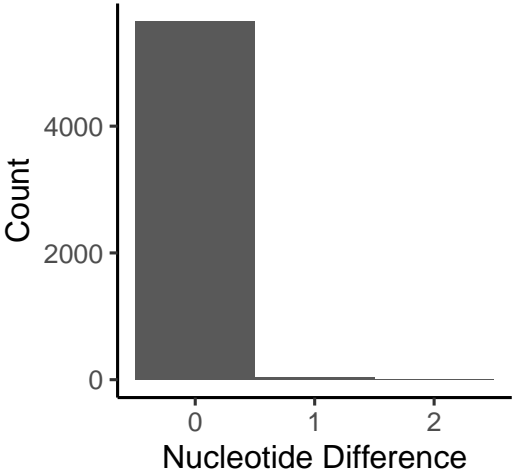
### TRBV23-1\*ap01

988 sequences assigned  
965 (97.7%) exact matches, in which:  
956 unique CDR3  
13 unique J



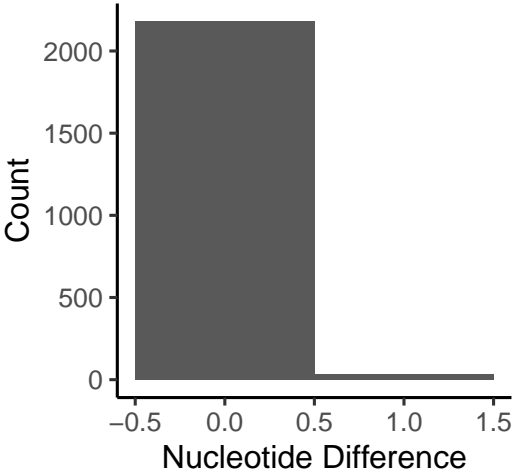
TRBV3-12\*ap01

5687 sequences assigned  
5653 (99.4%) exact matches, in which:  
5614 unique CDR3  
13 unique J



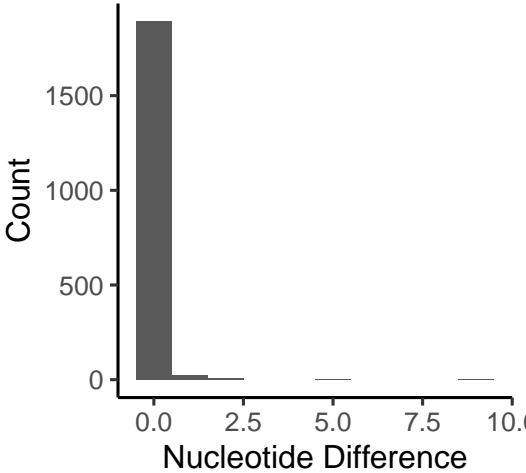
TRBV4-2\*ap01

2214 sequences assigned  
2180 (98.5%) exact matches, in which:  
2134 unique CDR3  
13 unique J



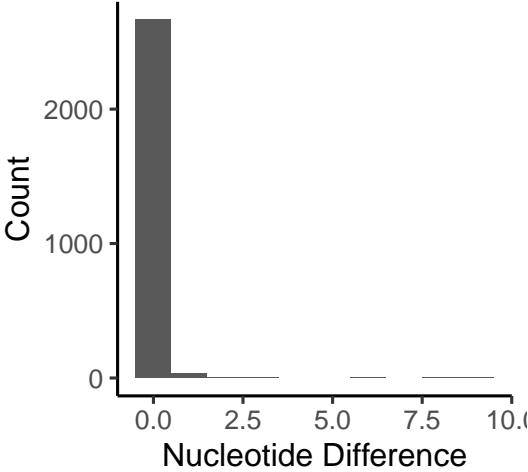
TRBV25-1\*ap01

1925 sequences assigned  
1892 (98.3%) exact matches, in which:  
1854 unique CDR3  
13 unique J



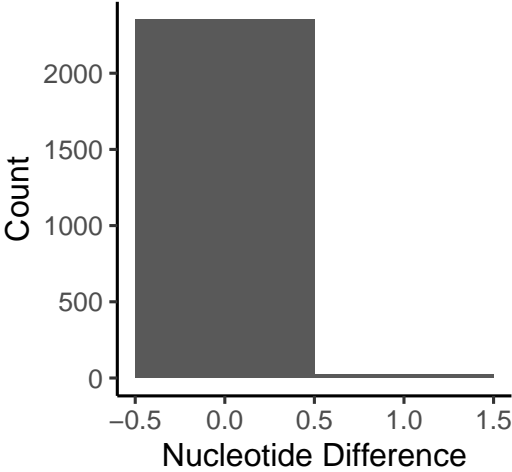
TRBV24-1\*ap01

2704 sequences assigned  
2665 (98.6%) exact matches, in which:  
2633 unique CDR3  
13 unique J



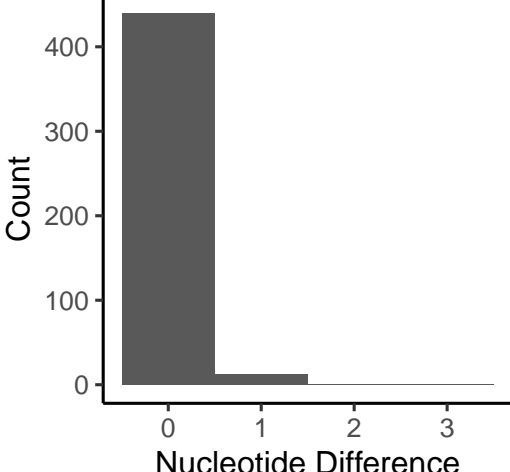
TRBV4-3\*ap01

2373 sequences assigned  
2351 (99.1%) exact matches, in which:  
2304 unique CDR3  
13 unique J



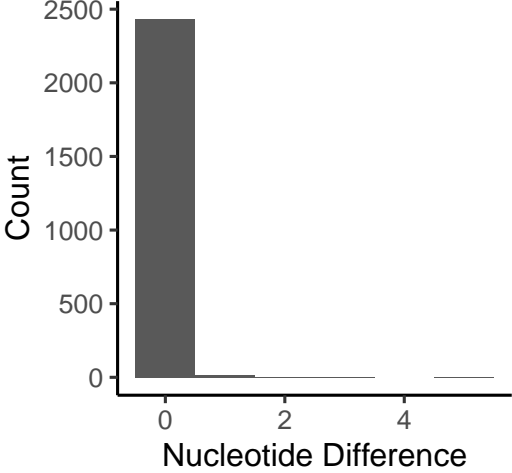
TRBV5-3\*ap01

455 sequences assigned  
440 (96.7%) exact matches, in which:  
434 unique CDR3  
13 unique J



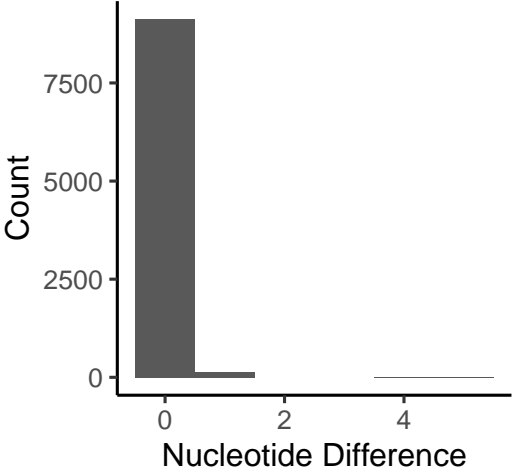
TRBV4-1\*ap01

2454 sequences assigned  
2433 (99.1%) exact matches, in which:  
2377 unique CDR3  
13 unique J



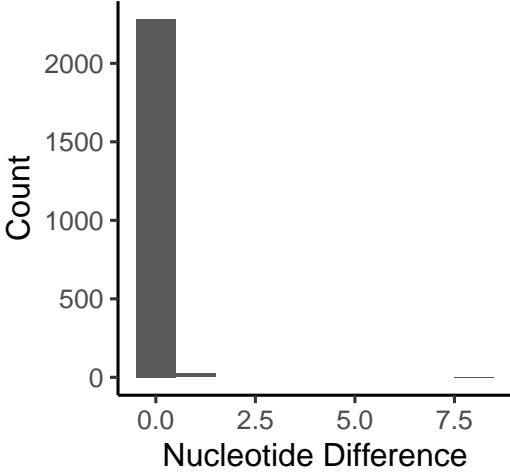
TRBV5-1\*ap01

9267 sequences assigned  
9128 (98.5%) exact matches, in which:  
9003 unique CDR3  
13 unique J



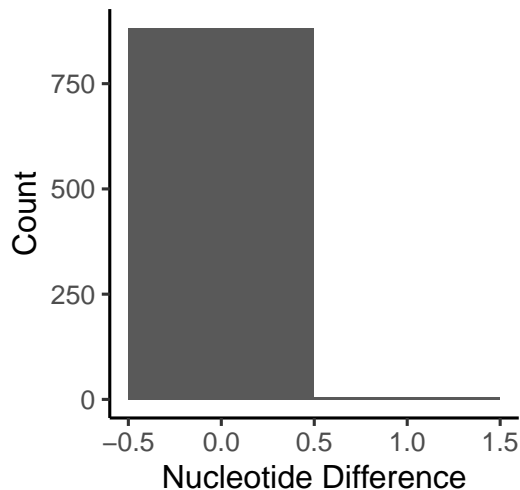
TRBV5-4\*ap01

2308 sequences assigned  
2282 (98.9%) exact matches, in which:  
2245 unique CDR3  
13 unique J



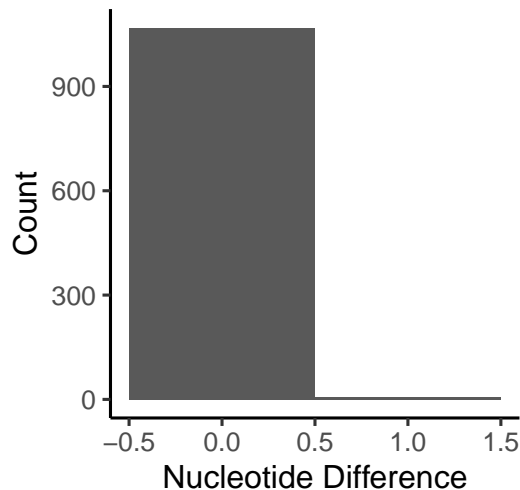
### TRBV5-5\*ap01

888 sequences assigned  
883 (99.4%) exact matches, in which:  
880 unique CDR3  
13 unique J



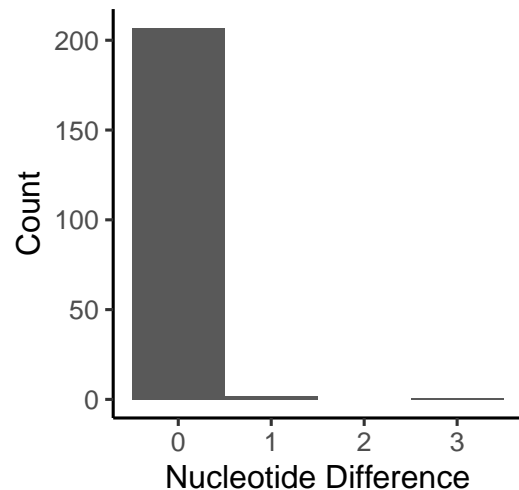
### TRBV5-8\*ap01

1075 sequences assigned  
1069 (99.4%) exact matches, in which:  
1048 unique CDR3  
13 unique J



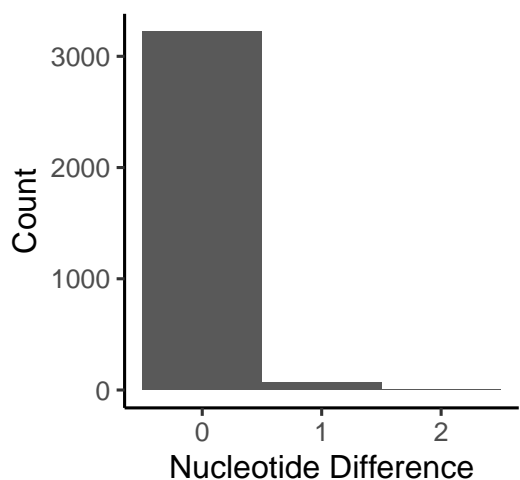
### TRBV6-7\*ap01

210 sequences assigned  
207 (98.6%) exact matches, in which:  
203 unique CDR3  
13 unique J



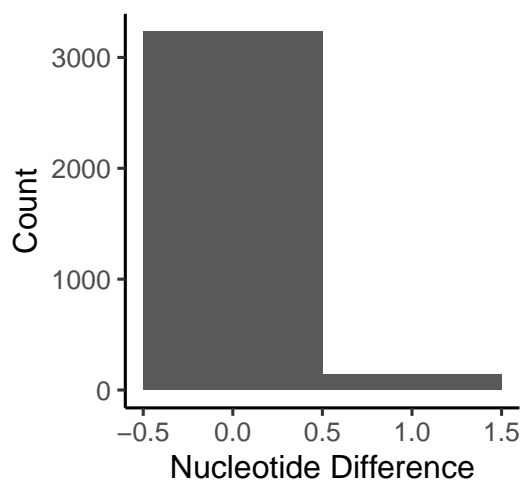
### TRBV5-6\*ap01

3289 sequences assigned  
3221 (97.9%) exact matches, in which:  
3151 unique CDR3  
13 unique J



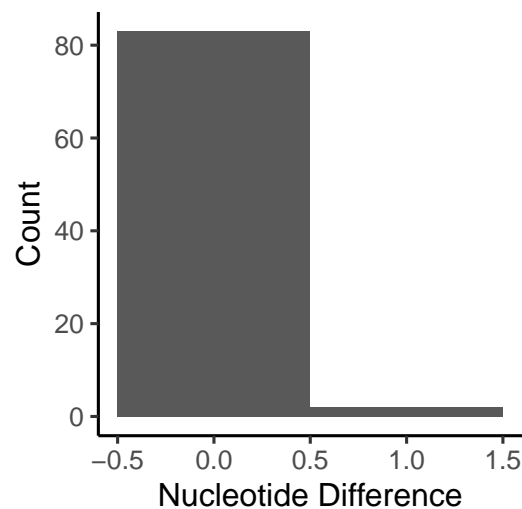
### TRBV6-1\*ap01

3369 sequences assigned  
3232 (95.9%) exact matches, in which:  
3174 unique CDR3  
13 unique J



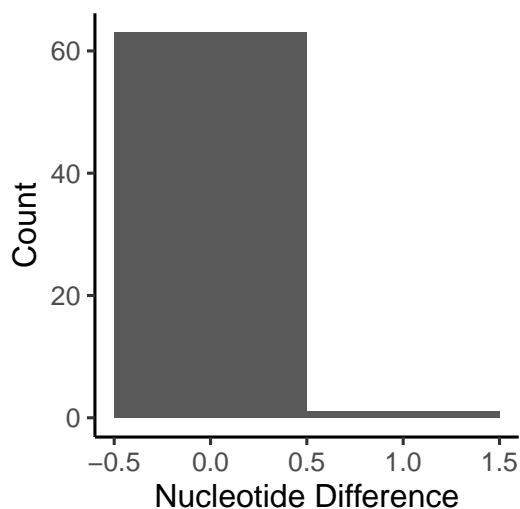
### TRBV6-8\*ap01

85 sequences assigned  
83 (97.6%) exact matches, in which:  
82 unique CDR3  
13 unique J



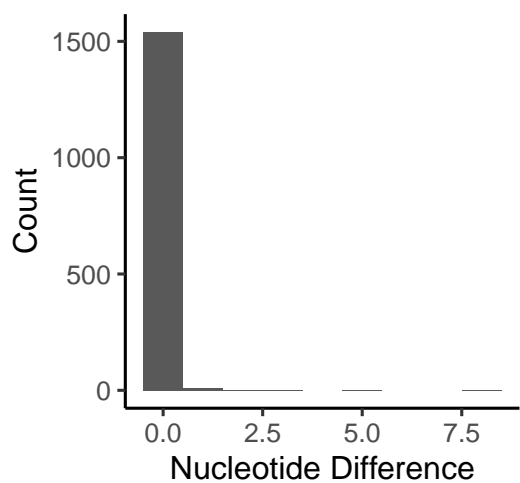
### TRBV5-7\*ap01

64 sequences assigned  
63 (98.4%) exact matches, in which:  
62 unique CDR3  
13 unique J



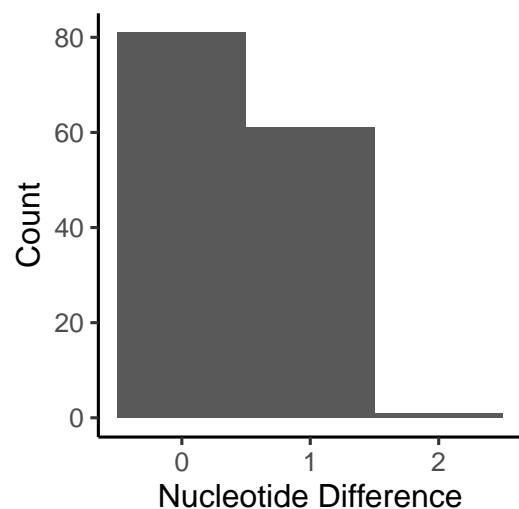
### TRBV6-4\*ap01

1554 sequences assigned  
1540 (99.1%) exact matches, in which:  
1524 unique CDR3  
13 unique J



### TRBV6-9\*ap01

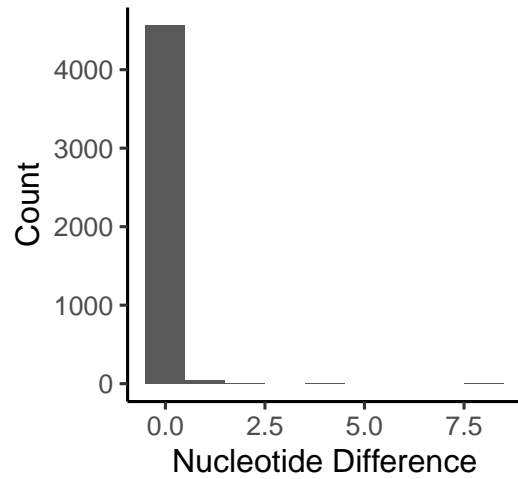
143 sequences assigned  
81 (56.6%) exact matches, in which:  
80 unique CDR3  
13 unique J





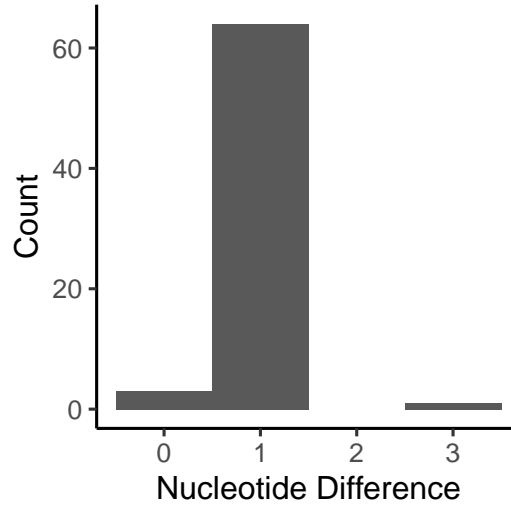
### TRBV6-23\*ap01

4613 sequences assigned  
4564 (98.9%) exact matches, in which:  
4463 unique CDR3  
13 unique J



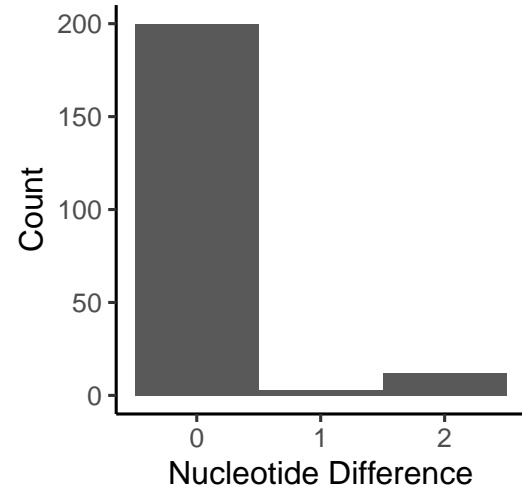
### TRBV7-1\*ap01\_T296C

68 sequences assigned  
3 (4.4%) exact matches, in which:  
3 unique CDR3  
2 unique J



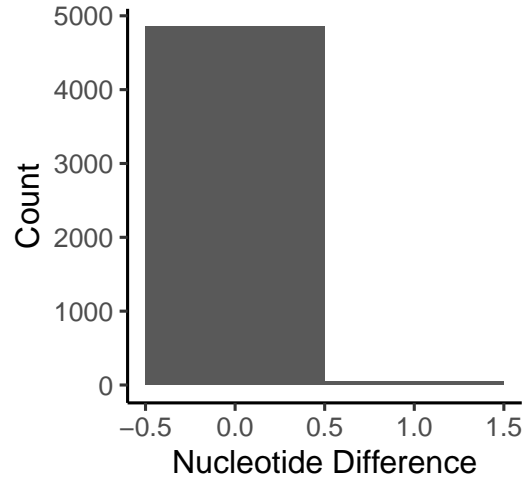
### TRBV7-4\*ap01

215 sequences assigned  
200 (93%) exact matches, in which:  
198 unique CDR3  
13 unique J



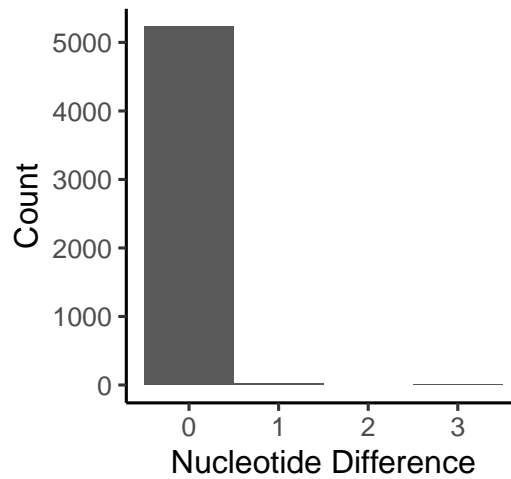
### TRBV6-56\*ap01

4899 sequences assigned  
4852 (99%) exact matches, in which:  
4764 unique CDR3  
13 unique J



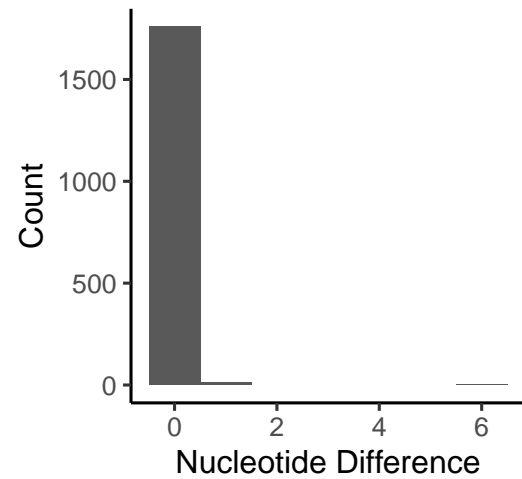
### TRBV7-2\*ap01

5251 sequences assigned  
5229 (99.6%) exact matches, in which:  
5169 unique CDR3  
13 unique J



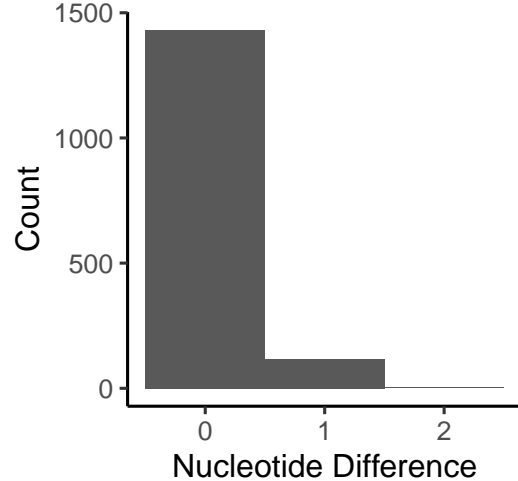
### TRBV7-6\*ap01

1774 sequences assigned  
1759 (99.2%) exact matches, in which:  
1743 unique CDR3  
13 unique J



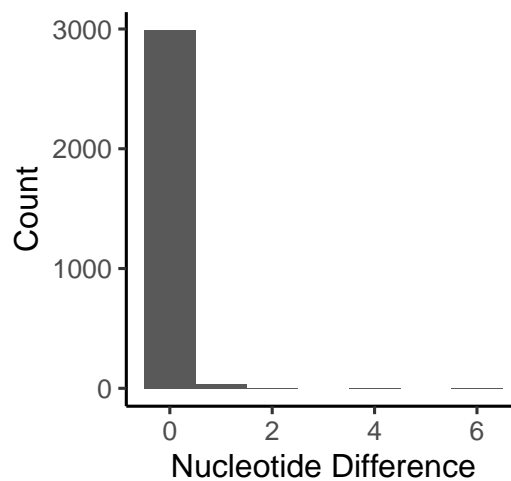
### TRBV6-56\*ap02

1552 sequences assigned  
1431 (92.2%) exact matches, in which:  
1400 unique CDR3  
13 unique J



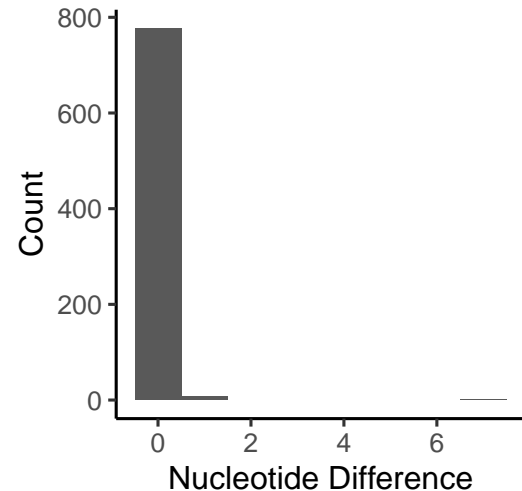
### TRBV7-3\*ap01

3032 sequences assigned  
2991 (98.6%) exact matches, in which:  
2965 unique CDR3  
13 unique J



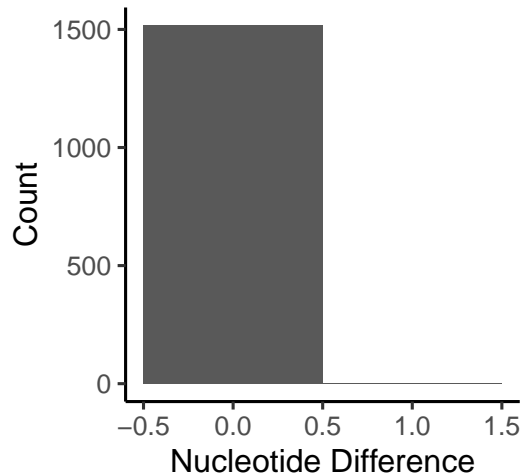
### TRBV7-7\*ap01\_C315T

785 sequences assigned  
777 (99%) exact matches, in which:  
769 unique CDR3  
13 unique J



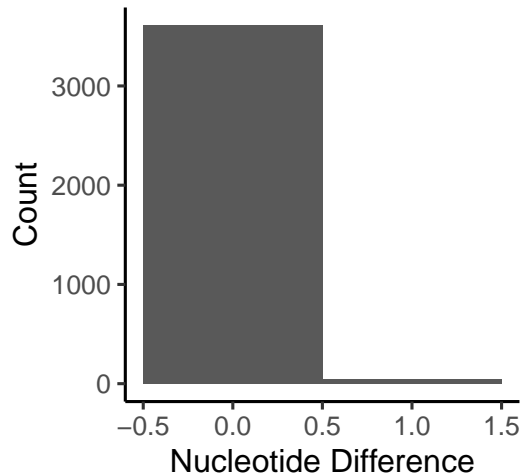
### TRBV7-8\*ap01

1520 sequences assigned  
1517 (99.8%) exact matches, in which:  
1501 unique CDR3  
13 unique J



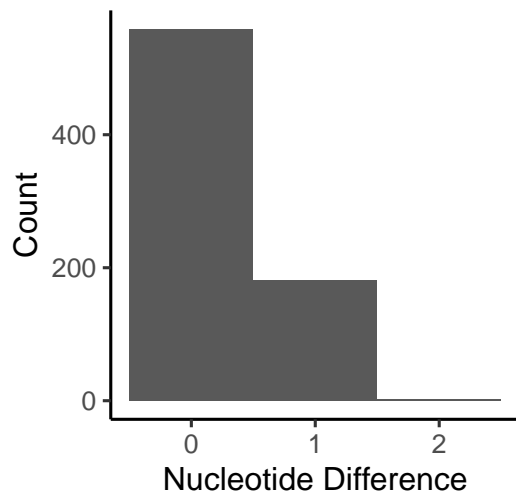
### TRBV29-1\*ap01

3659 sequences assigned  
3610 (98.7%) exact matches, in which:  
3531 unique CDR3  
13 unique J



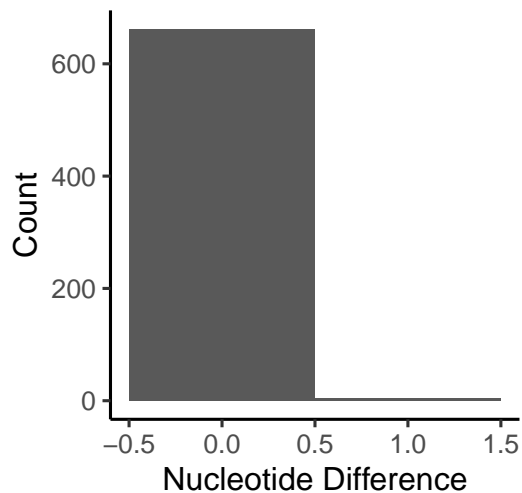
### TRBV7-8\*ap03

742 sequences assigned  
559 (75.3%) exact matches, in which:  
556 unique CDR3  
13 unique J



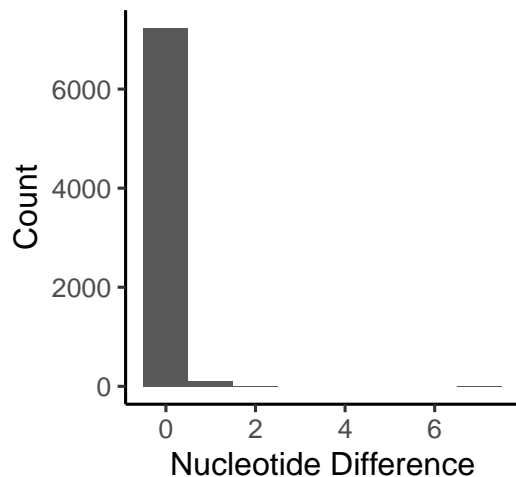
### TRBV29-1\*ap02

667 sequences assigned  
662 (99.3%) exact matches, in which:  
645 unique CDR3  
13 unique J

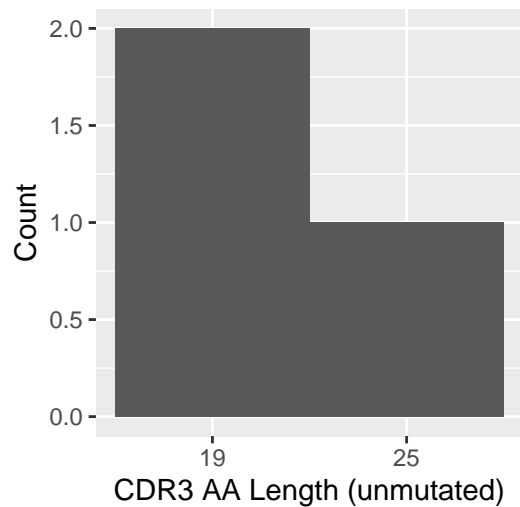


### TRBV7-9\*ap01

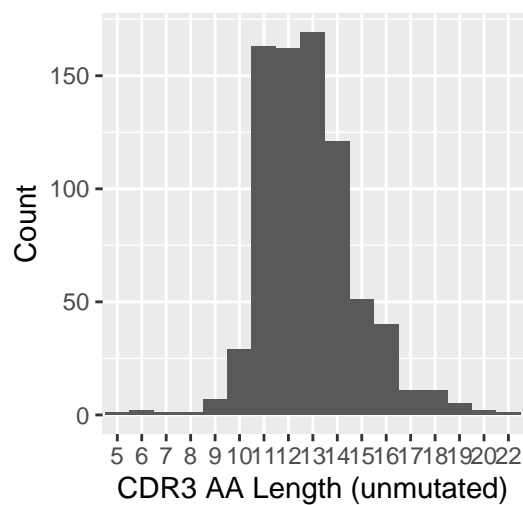
7335 sequences assigned  
7232 (98.6%) exact matches, in which:  
7144 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]