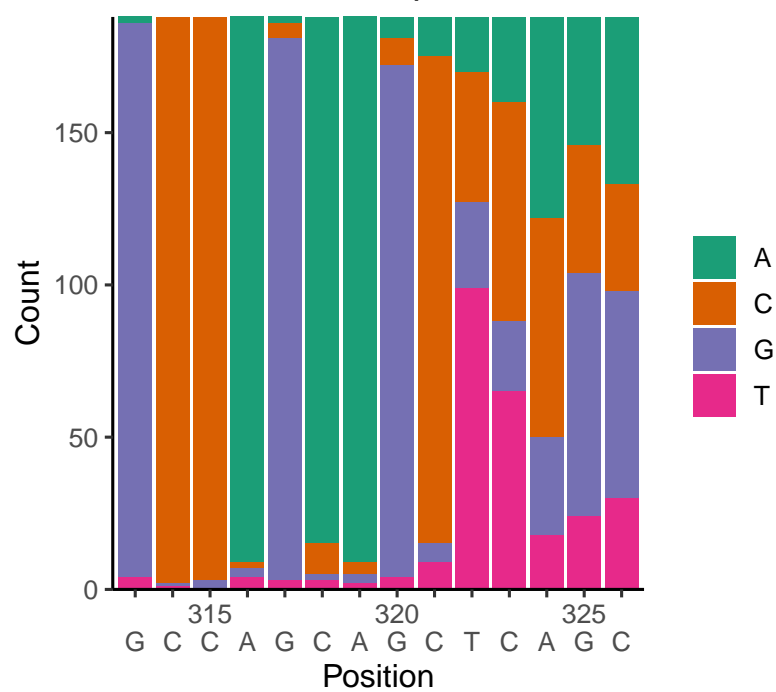
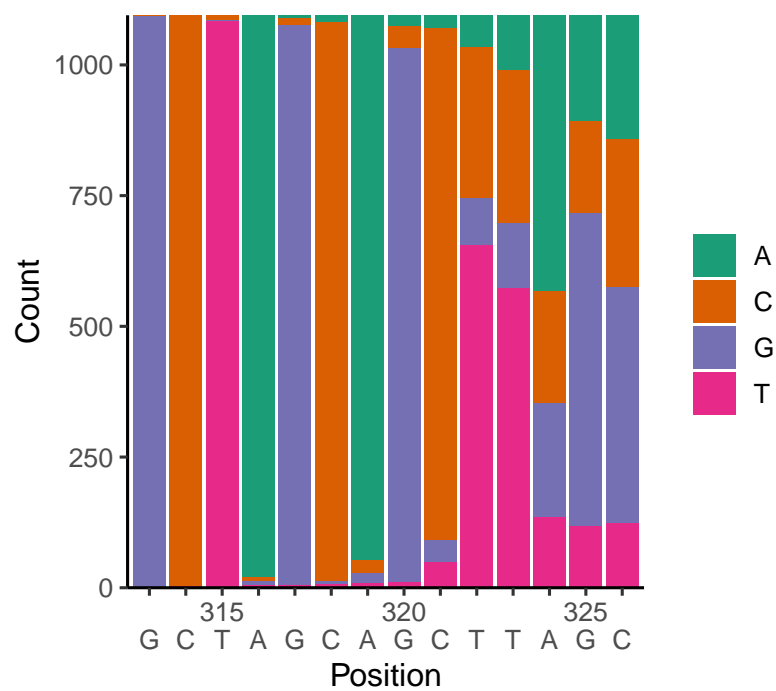


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



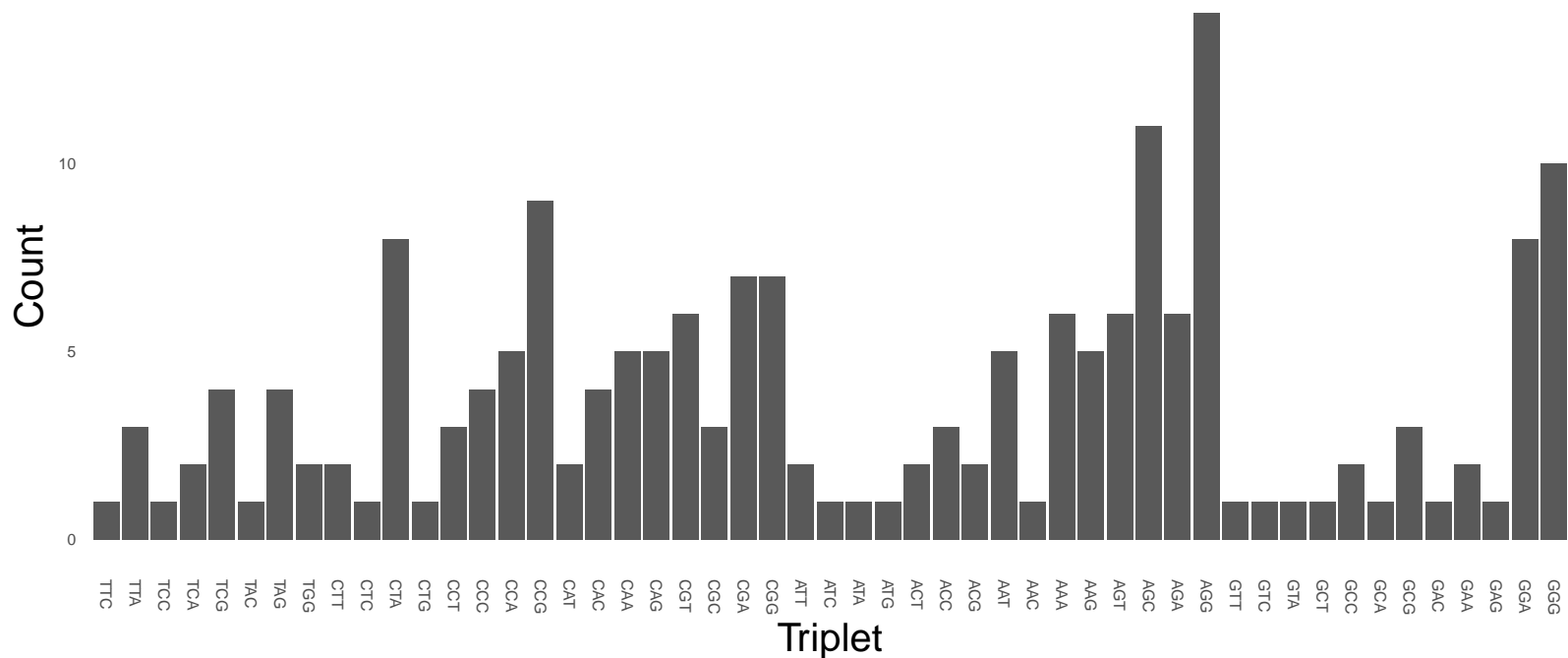
Gene TRBV7-1\*ap01\_G291C\_T296C



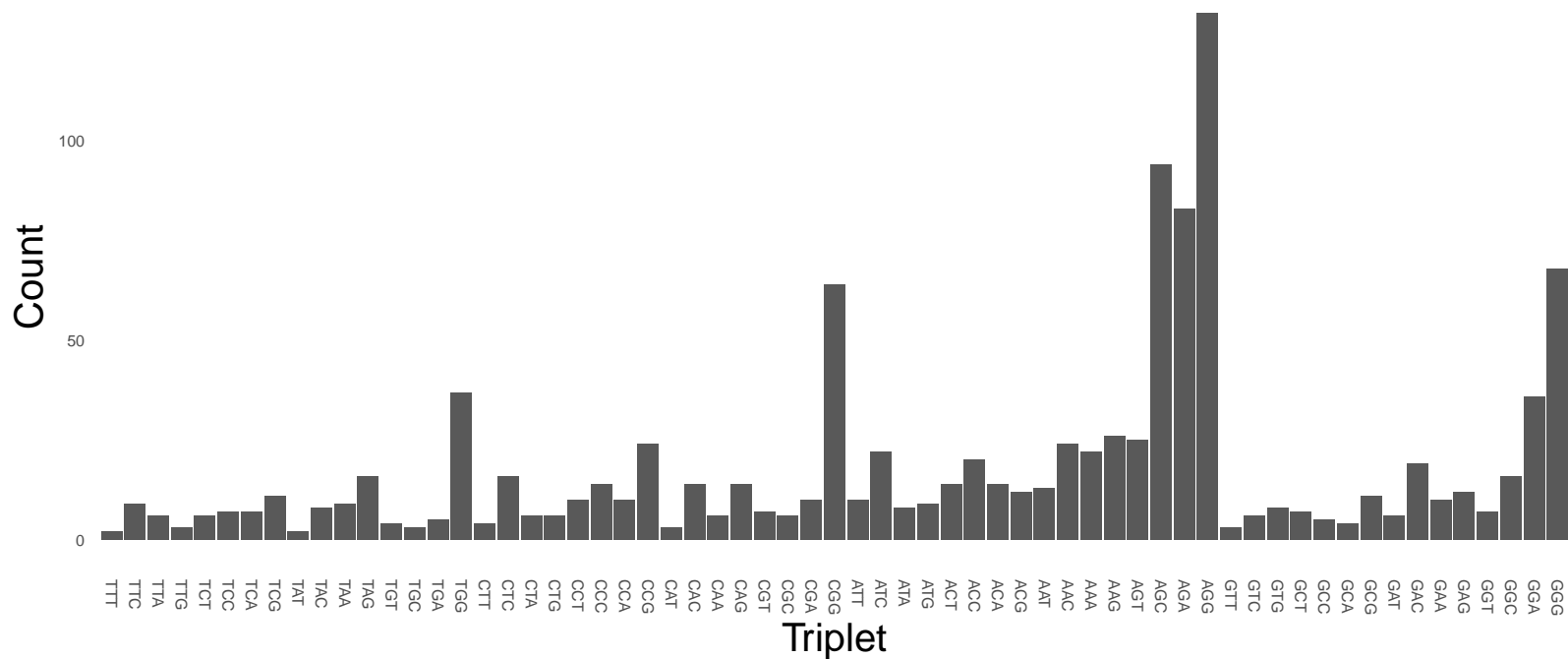
Gene TRBV7-7\*ap01\_C315T



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

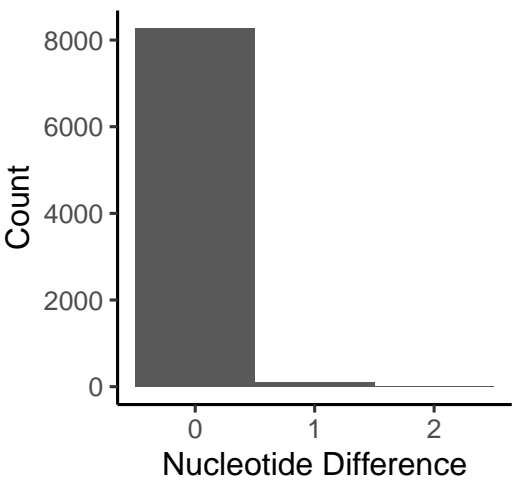


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



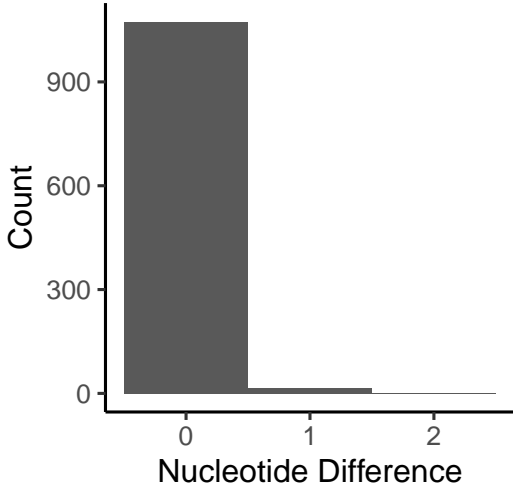
TRBV20-1\*ap01

8377 sequences assigned  
8269 (98.7%) exact matches, in which:  
8133 unique CDR3  
13 unique J



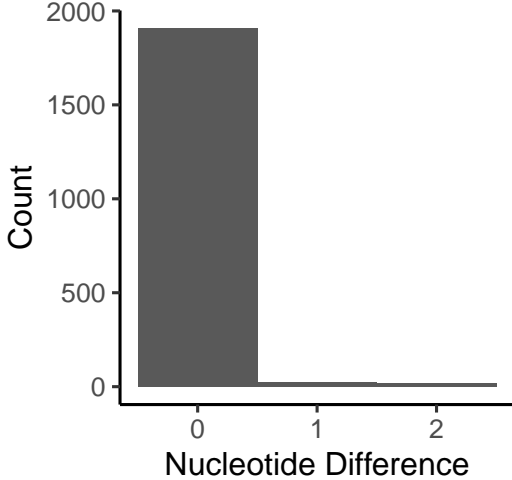
TRBV10-2\*ap01

1091 sequences assigned  
1074 (98.4%) exact matches, in which:  
1061 unique CDR3  
13 unique J



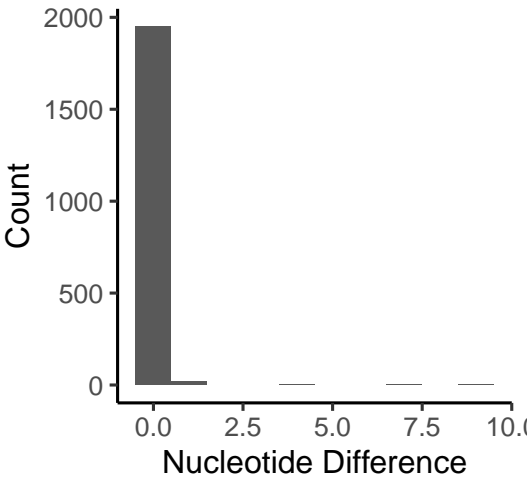
TRBV13\*ap01

1949 sequences assigned  
1907 (97.8%) exact matches, in which:  
1870 unique CDR3  
13 unique J



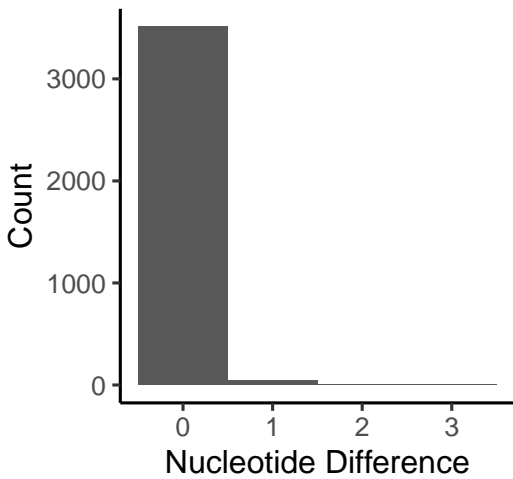
TRBV10-1\*ap01

1969 sequences assigned  
1949 (99%) exact matches, in which:  
1909 unique CDR3  
13 unique J



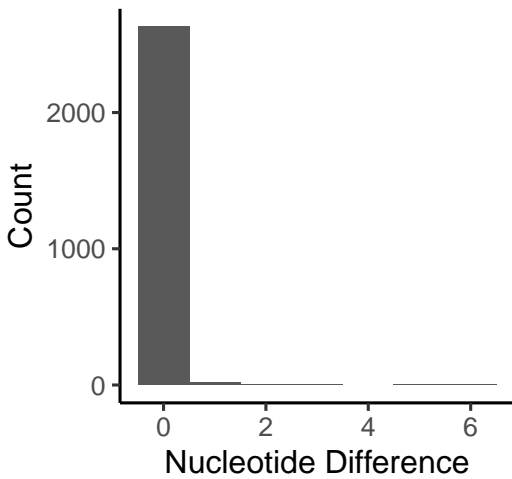
TRBV10-3\*ap01

3559 sequences assigned  
3511 (98.7%) exact matches, in which:  
3443 unique CDR3  
13 unique J



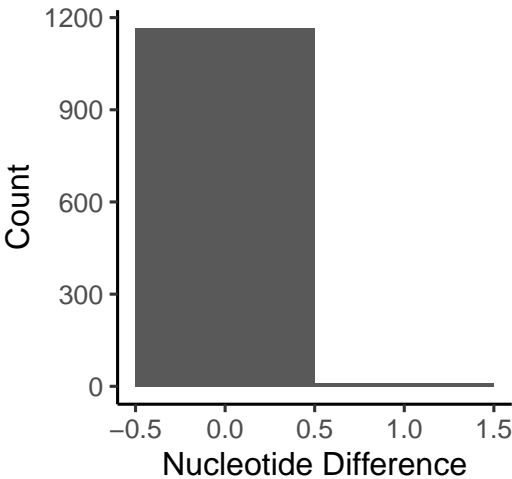
TRBV14\*ap01

2654 sequences assigned  
2630 (99.1%) exact matches, in which:  
2586 unique CDR3  
13 unique J



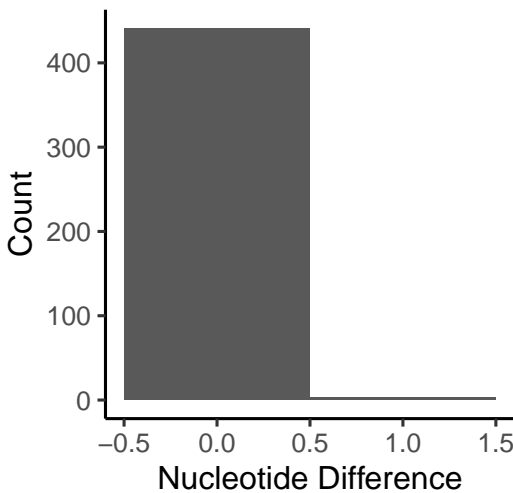
TRBV20-1\*ap02

1177 sequences assigned  
1166 (99.1%) exact matches, in which:  
1139 unique CDR3  
13 unique J



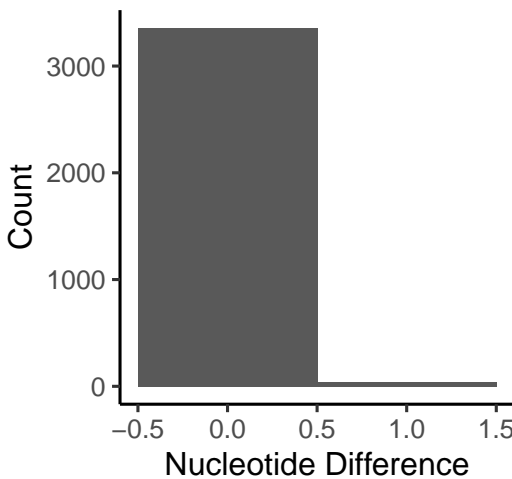
TRBV1\*ap01

444 sequences assigned  
441 (99.3%) exact matches, in which:  
434 unique CDR3  
13 unique J



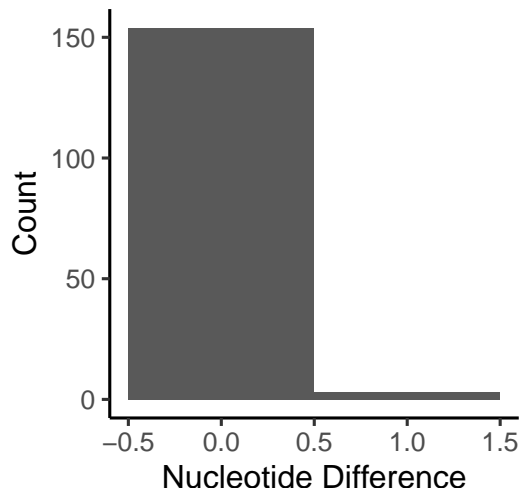
TRBV15\*ap02

3396 sequences assigned  
3356 (98.8%) exact matches, in which:  
3297 unique CDR3  
13 unique J



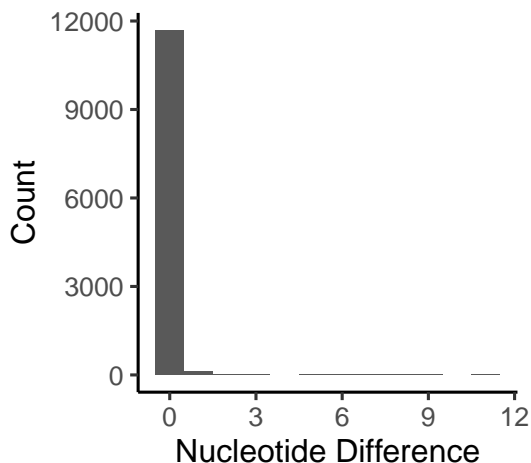
### TRBV16\*ap01

157 sequences assigned  
154 (98.1%) exact matches, in which:  
153 unique CDR3  
12 unique J



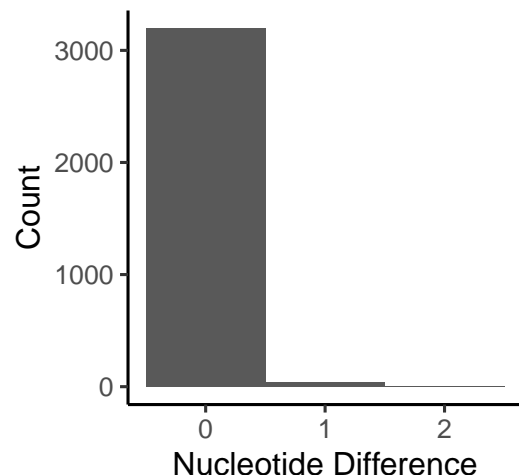
### TRBV19\*ap01

11821 sequences assigned  
11690 (98.9%) exact matches, in which:  
11553 unique CDR3  
14 unique J



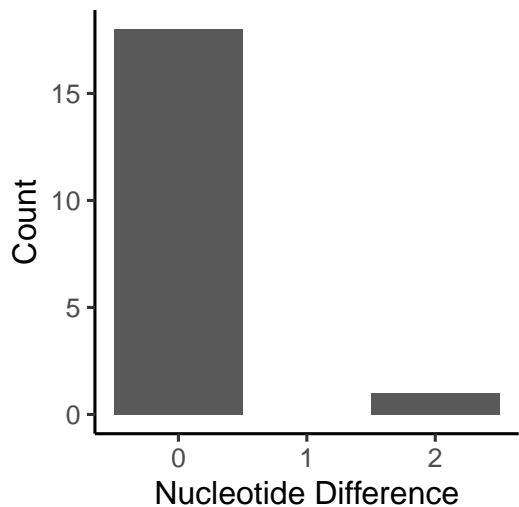
### TRBV28\*ap01

3234 sequences assigned  
3196 (98.8%) exact matches, in which:  
3130 unique CDR3  
13 unique J



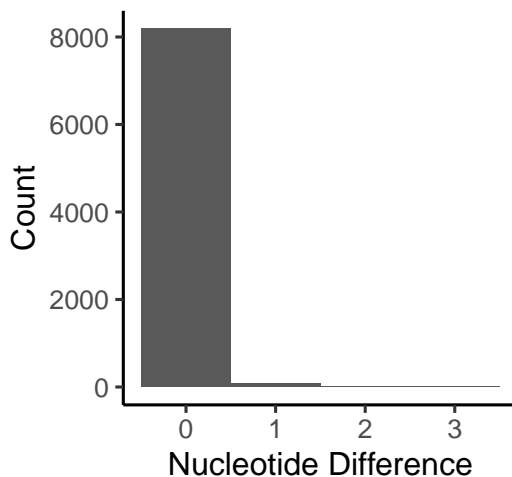
### TRBV17\*ap01

19 sequences assigned  
18 (94.7%) exact matches, in which:  
18 unique CDR3  
8 unique J



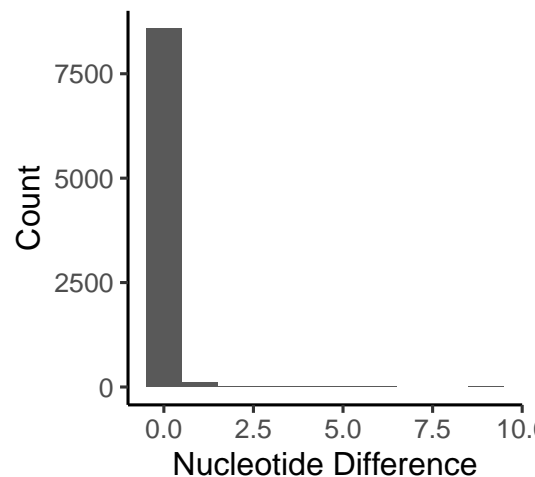
### TRBV2\*ap01

8274 sequences assigned  
8188 (99%) exact matches, in which:  
8076 unique CDR3  
13 unique J



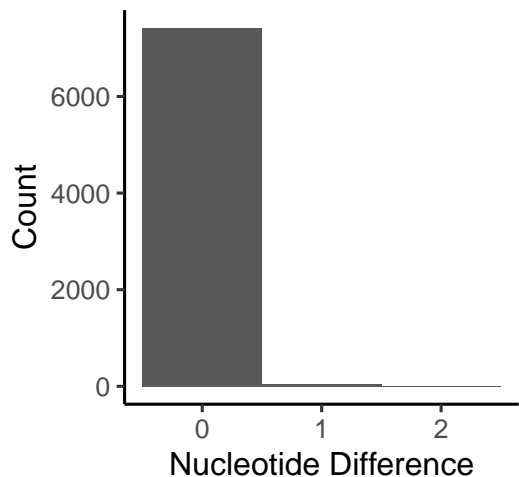
### TRBV30\*ap01

8704 sequences assigned  
8578 (98.6%) exact matches, in which:  
8489 unique CDR3  
13 unique J



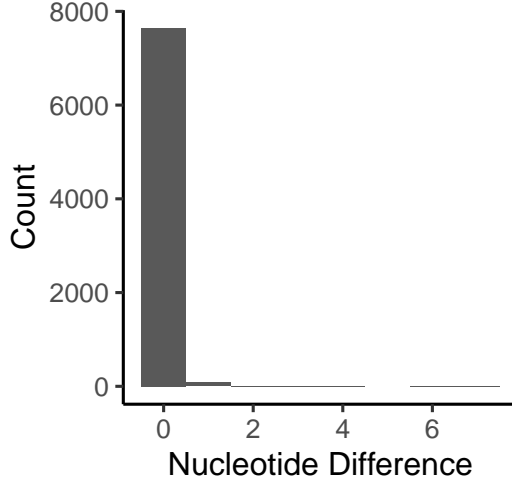
### TRBV18\*ap01

7460 sequences assigned  
7416 (99.4%) exact matches, in which:  
7342 unique CDR3  
13 unique J



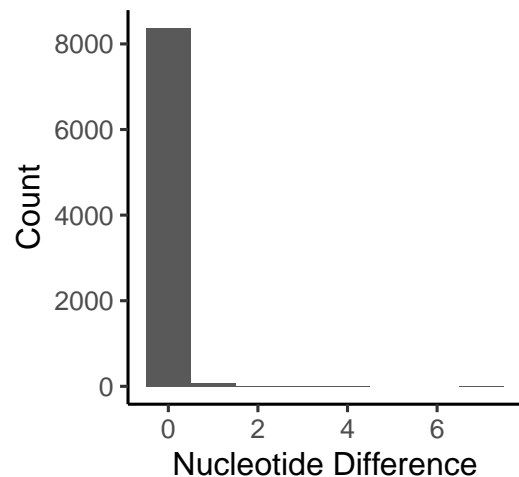
### TRBV27\*ap01

7731 sequences assigned  
7644 (98.9%) exact matches, in which:  
7513 unique CDR3  
13 unique J



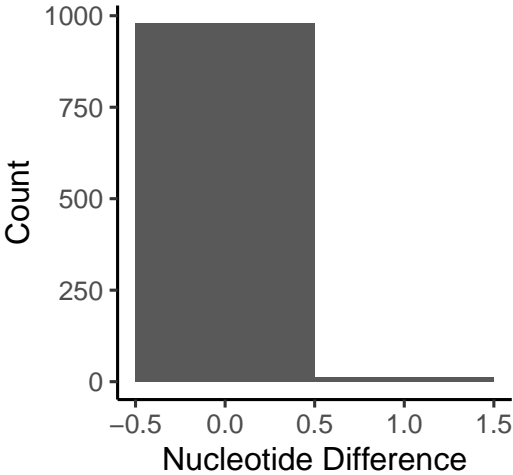
### TRBV9\*ap01

8457 sequences assigned  
8371 (99%) exact matches, in which:  
8241 unique CDR3  
13 unique J



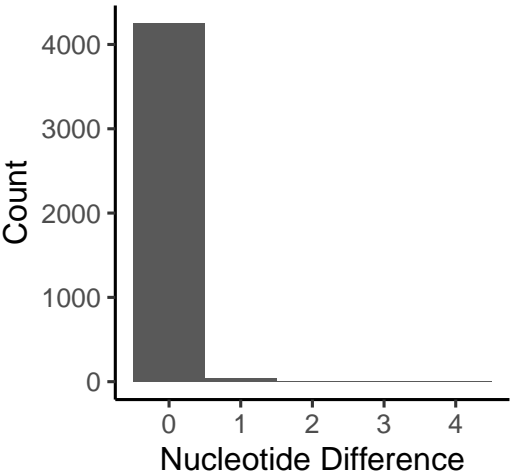
TRBV11-1\*ap01

992 sequences assigned  
979 (98.7%) exact matches, in which:  
954 unique CDR3  
13 unique J



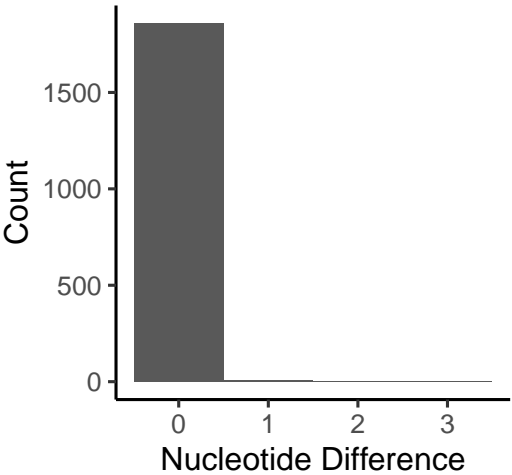
TRBV11-3\*ap01

4295 sequences assigned  
4250 (99%) exact matches, in which:  
4186 unique CDR3  
13 unique J



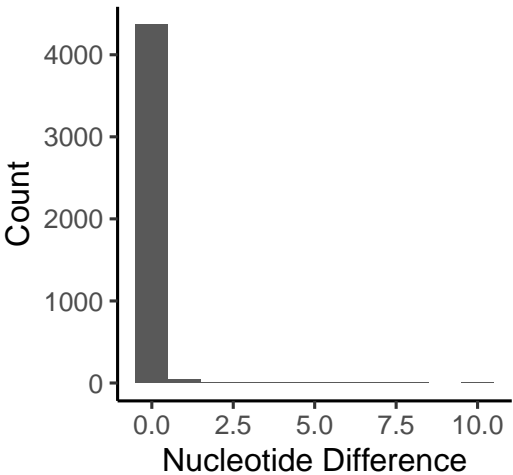
TRBV12-5\*ap01

1869 sequences assigned  
1858 (99.4%) exact matches, in which:  
1831 unique CDR3  
13 unique J



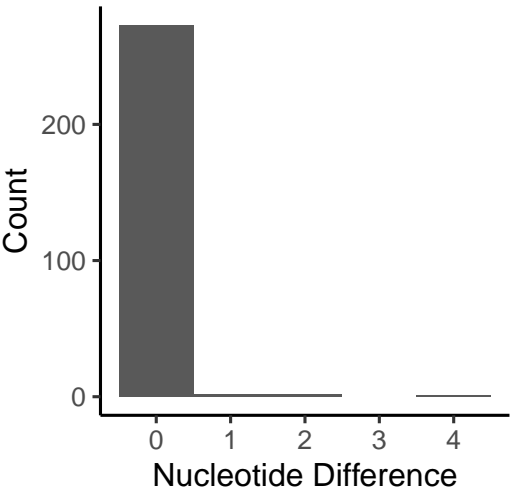
TRBV21-1\*ap01

4432 sequences assigned  
4366 (98.5%) exact matches, in which:  
4291 unique CDR3  
13 unique J



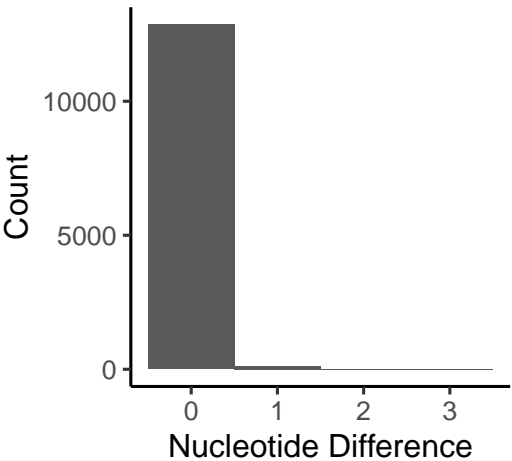
TRBV12-1\*ap01

278 sequences assigned  
273 (98.2%) exact matches, in which:  
268 unique CDR3  
13 unique J



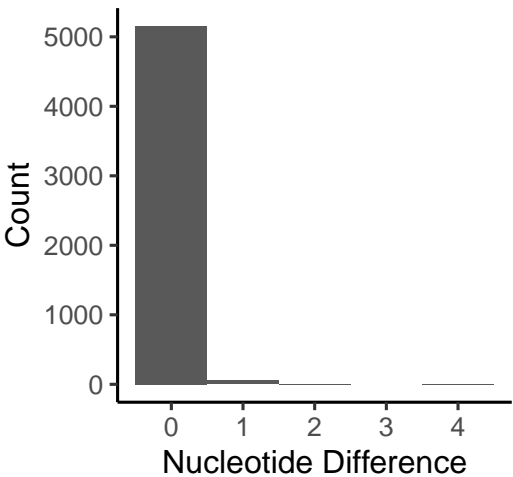
TRBV12-34\*ap01

12997 sequences assigned  
12865 (99%) exact matches, in which:  
12657 unique CDR3  
13 unique J



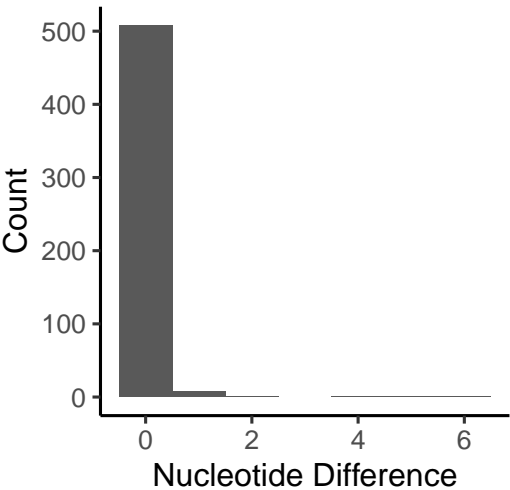
TRBV11-2\*ap01

5212 sequences assigned  
5155 (98.9%) exact matches, in which:  
5083 unique CDR3  
13 unique J



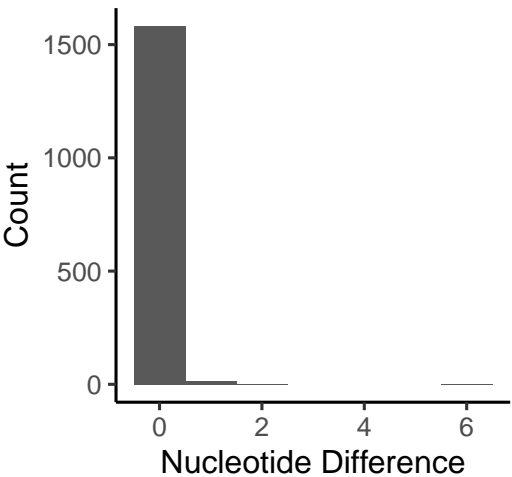
TRBV12-2\*ap01

519 sequences assigned  
508 (97.9%) exact matches, in which:  
499 unique CDR3  
13 unique J



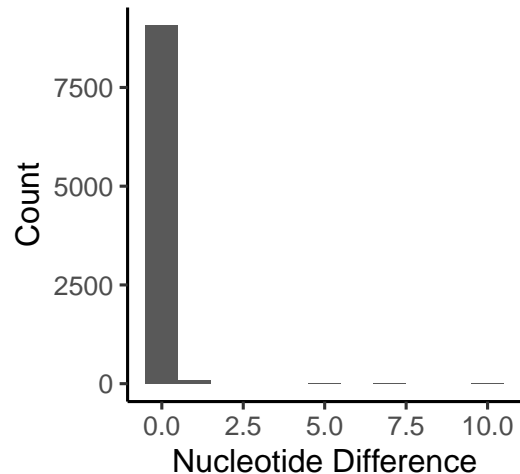
TRBV23-1\*ap01

1601 sequences assigned  
1582 (98.8%) exact matches, in which:  
1559 unique CDR3  
13 unique J



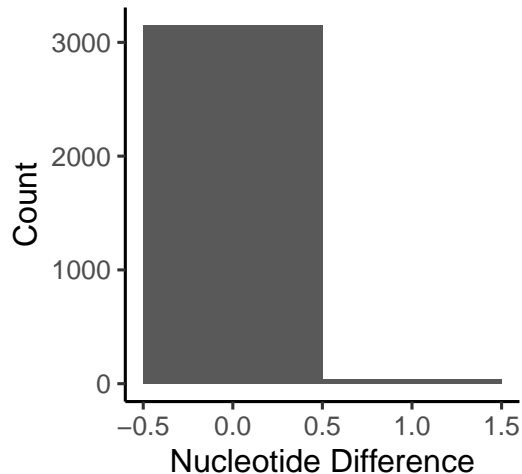
### TRBV3-12\*ap01

9167 sequences assigned  
9071 (99%) exact matches, in which:  
8915 unique CDR3  
13 unique J



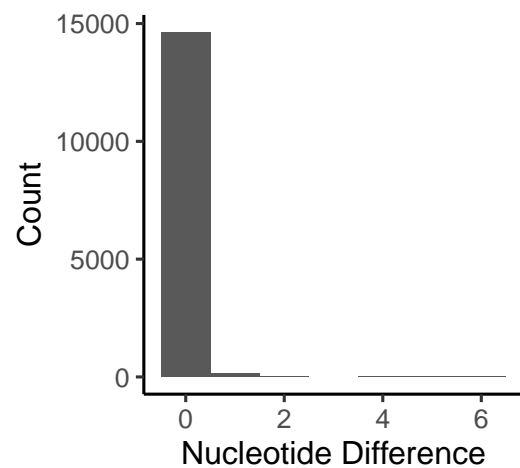
### TRBV4-2\*ap01

3190 sequences assigned  
3149 (98.7%) exact matches, in which:  
3102 unique CDR3  
13 unique J



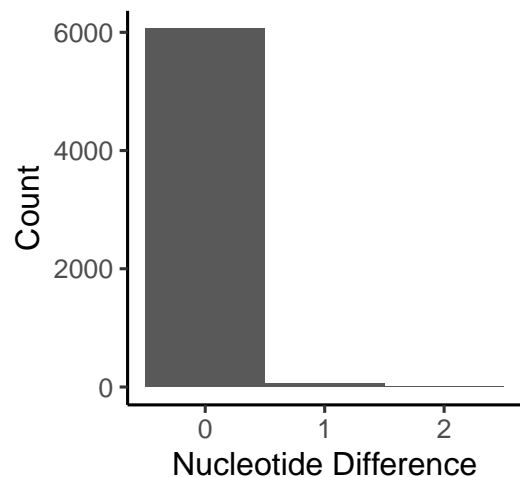
### TRBV5-1\*ap01

14797 sequences assigned  
14636 (98.9%) exact matches, in which:  
14373 unique CDR3  
13 unique J



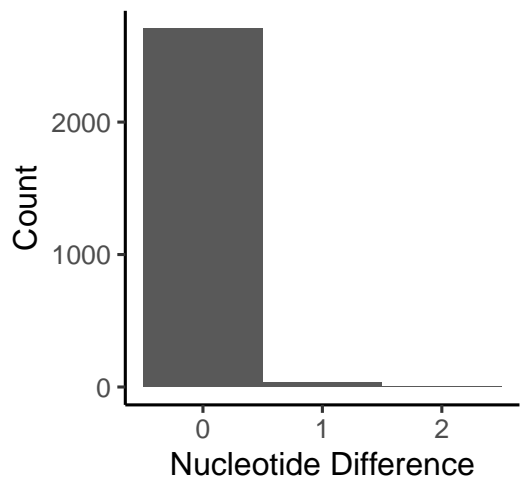
### TRBV4-1\*ap01

6113 sequences assigned  
6061 (99.1%) exact matches, in which:  
5963 unique CDR3  
13 unique J



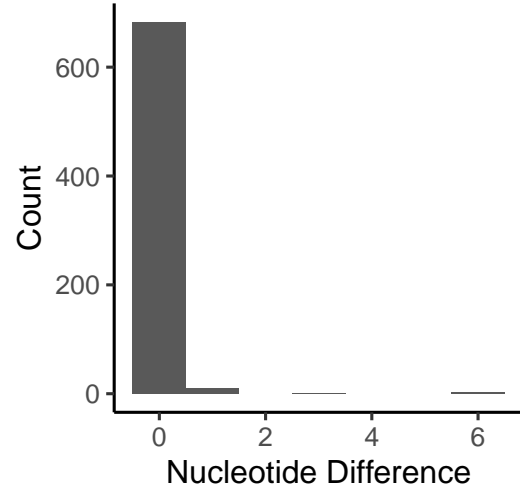
### TRBV4-3\*ap01

2737 sequences assigned  
2705 (98.8%) exact matches, in which:  
2651 unique CDR3  
13 unique J



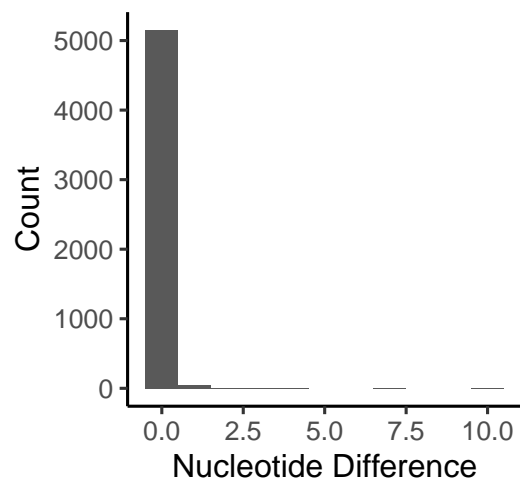
### TRBV5-3\*ap01

698 sequences assigned  
683 (97.9%) exact matches, in which:  
677 unique CDR3  
13 unique J



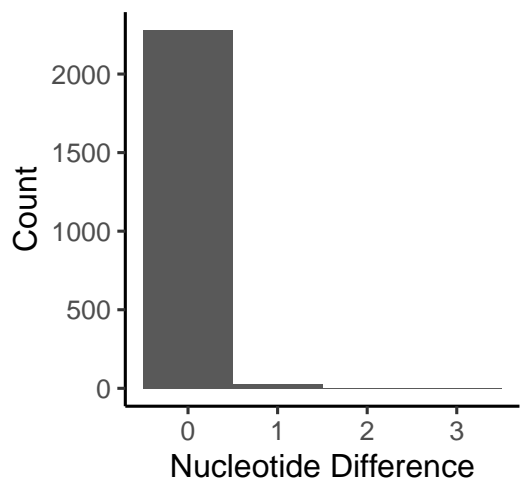
### TRBV24-1\*ap01

5211 sequences assigned  
5151 (98.8%) exact matches, in which:  
5092 unique CDR3  
13 unique J



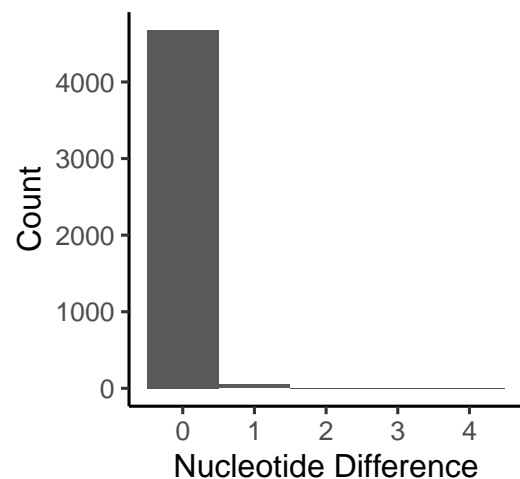
### TRBV25-1\*ap01

2308 sequences assigned  
2280 (98.8%) exact matches, in which:  
2255 unique CDR3  
13 unique J



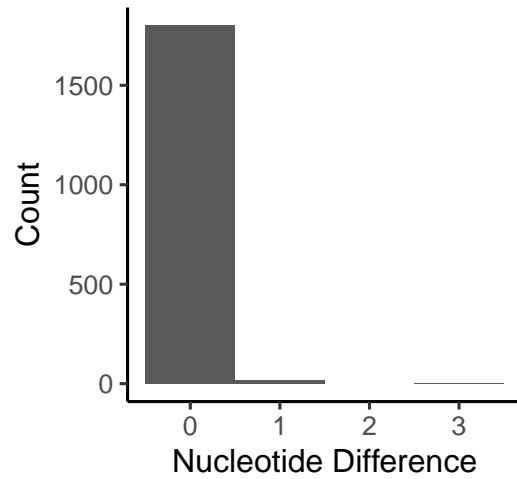
### TRBV5-4\*ap01

4730 sequences assigned  
4678 (98.9%) exact matches, in which:  
4602 unique CDR3  
13 unique J



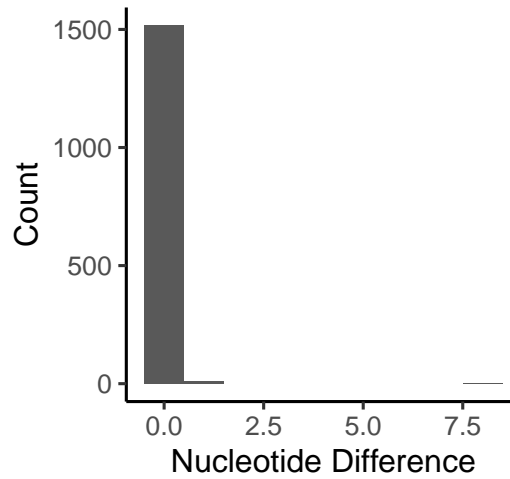
### TRBV5-5\*ap01

1820 sequences assigned  
1801 (99%) exact matches, in which:  
1776 unique CDR3  
13 unique J



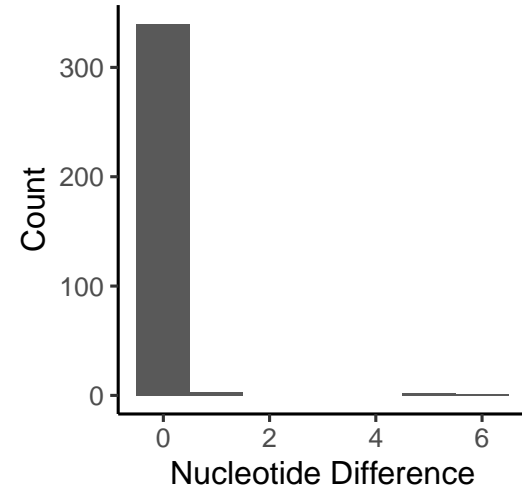
### TRBV5-8\*ap01

1530 sequences assigned  
1517 (99.2%) exact matches, in which:  
1500 unique CDR3  
13 unique J



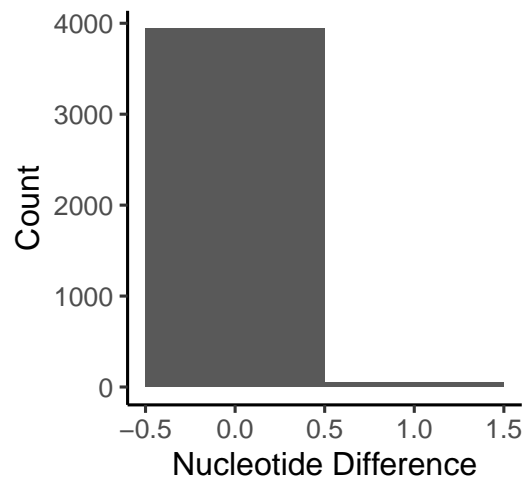
### TRBV6-7\*ap01

346 sequences assigned  
340 (98.3%) exact matches, in which:  
335 unique CDR3  
13 unique J



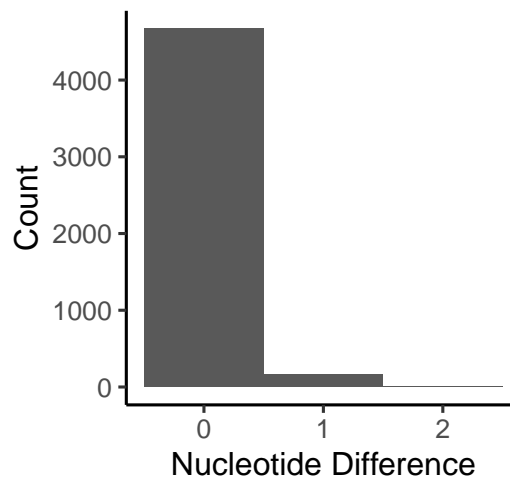
### TRBV5-6\*ap01

3985 sequences assigned  
3940 (98.9%) exact matches, in which:  
3880 unique CDR3  
13 unique J



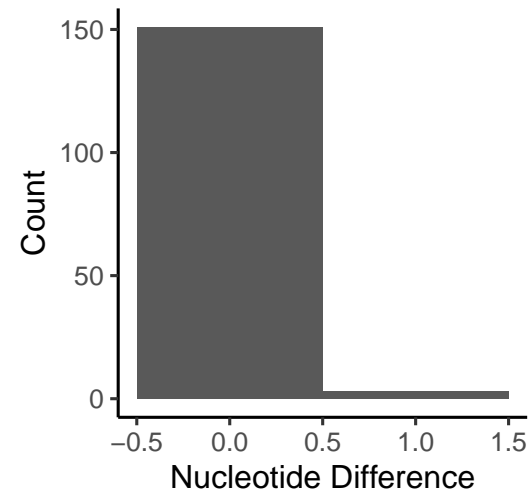
### TRBV6-1\*ap01

4837 sequences assigned  
4669 (96.5%) exact matches, in which:  
4584 unique CDR3  
13 unique J



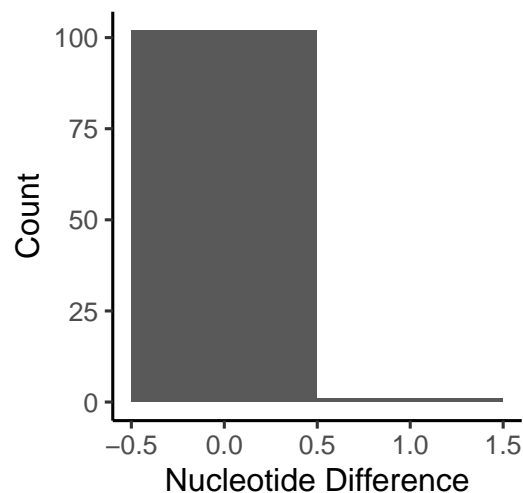
### TRBV6-8\*ap01

154 sequences assigned  
151 (98.1%) exact matches, in which:  
148 unique CDR3  
13 unique J



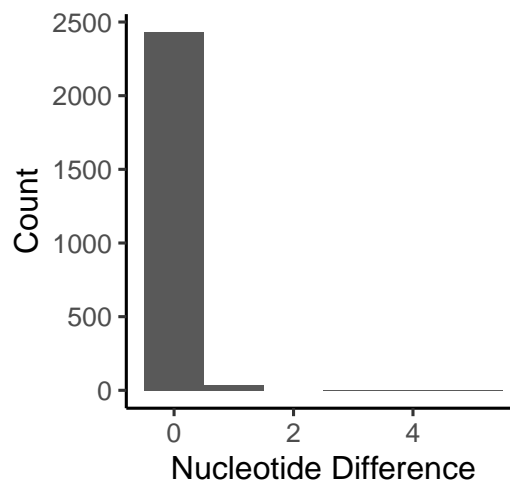
### TRBV5-7\*ap01

103 sequences assigned  
102 (99%) exact matches, in which:  
102 unique CDR3  
13 unique J



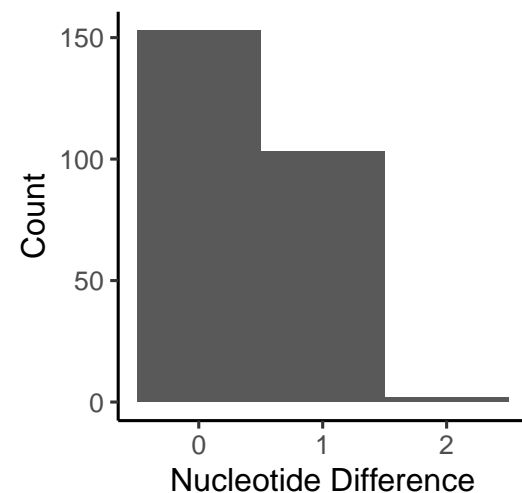
### TRBV6-4\*ap01

2474 sequences assigned  
2432 (98.3%) exact matches, in which:  
2402 unique CDR3  
13 unique J



### TRBV6-9\*ap01

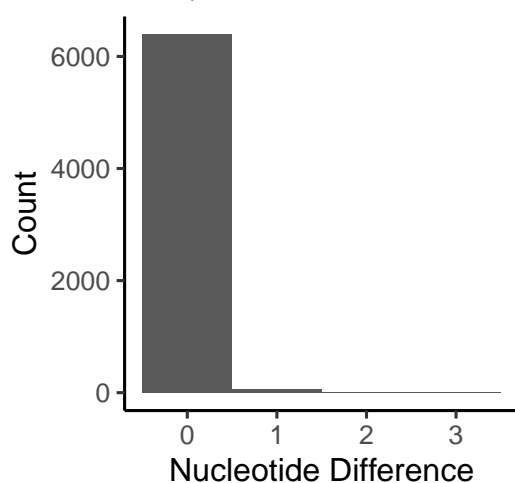
258 sequences assigned  
153 (59.3%) exact matches, in which:  
150 unique CDR3  
13 unique J





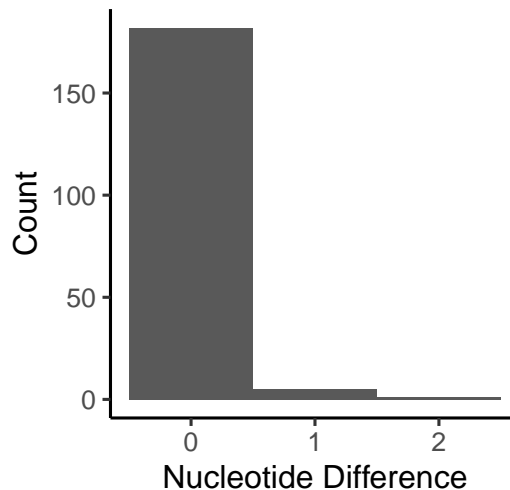
### TRBV6-23\*ap01

6451 sequences assigned  
6393 (99.1%) exact matches, in which:  
6297 unique CDR3  
13 unique J



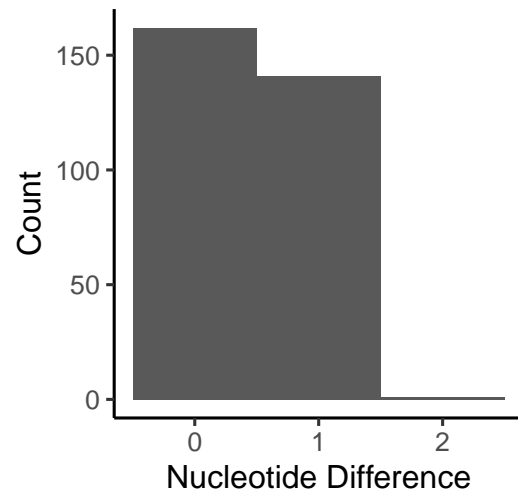
### TRBV7-1\*ap01\_G291C\_

188 sequences assigned  
182 (96.8%) exact matches, in which:  
178 unique CDR3  
13 unique J



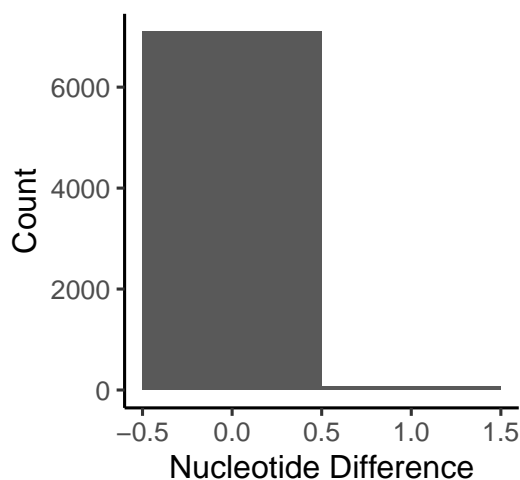
### TRBV7-4\*ap01

304 sequences assigned  
162 (53.3%) exact matches, in which:  
160 unique CDR3  
13 unique J



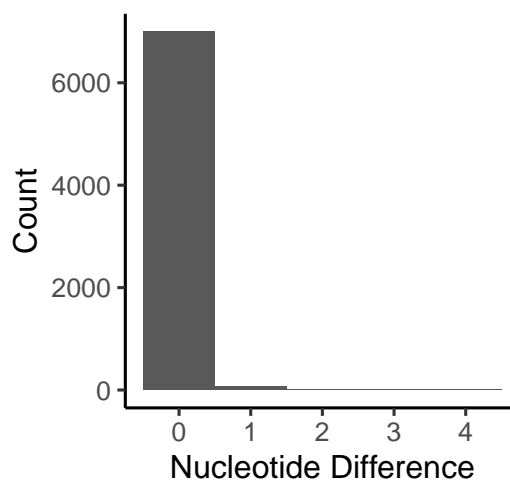
### TRBV6-56\*ap01

7168 sequences assigned  
7098 (99%) exact matches, in which:  
6986 unique CDR3  
13 unique J



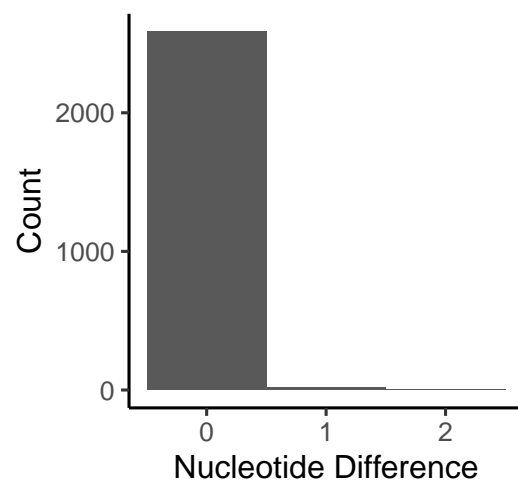
### TRBV7-2\*ap01

7066 sequences assigned  
6997 (99%) exact matches, in which:  
6902 unique CDR3  
13 unique J



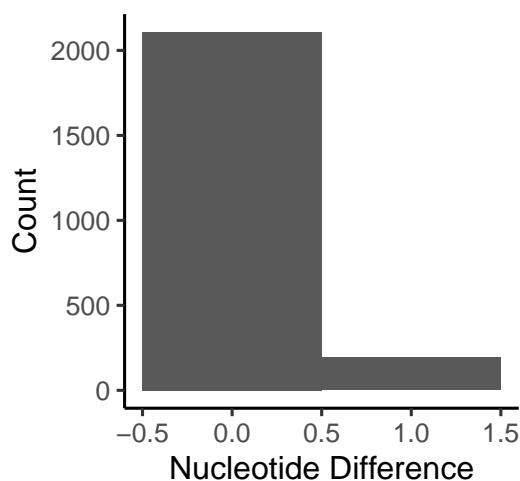
### TRBV7-6\*ap01

2606 sequences assigned  
2585 (99.2%) exact matches, in which:  
2541 unique CDR3  
13 unique J



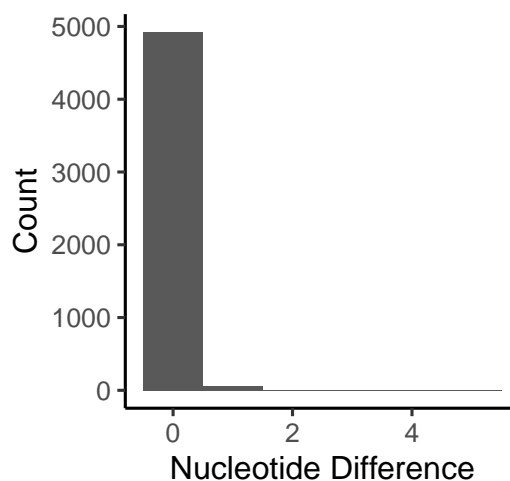
### TRBV6-56\*ap02

2301 sequences assigned  
2108 (91.6%) exact matches, in which:  
2066 unique CDR3  
13 unique J



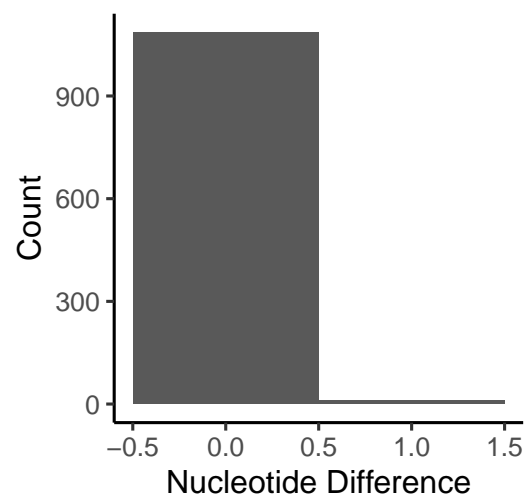
### TRBV7-3\*ap01

4991 sequences assigned  
4923 (98.6%) exact matches, in which:  
4839 unique CDR3  
13 unique J



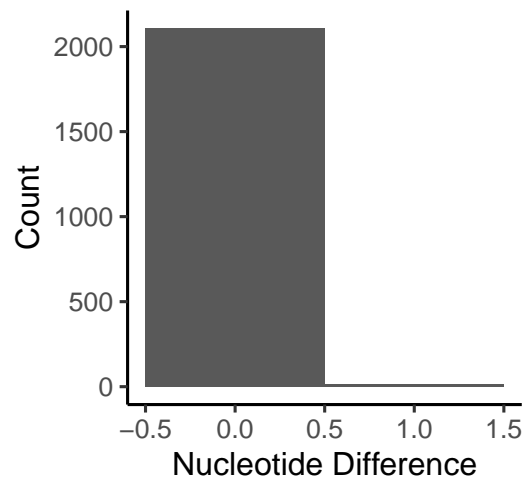
### TRBV7-7\*ap01\_C315T

1095 sequences assigned  
1086 (99.2%) exact matches, in which:  
1071 unique CDR3  
13 unique J



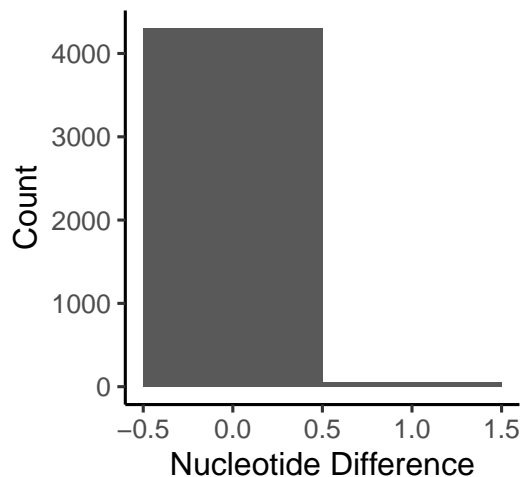
### TRBV7-8\*ap01

2122 sequences assigned  
2107 (99.3%) exact matches, in which:  
2070 unique CDR3  
13 unique J



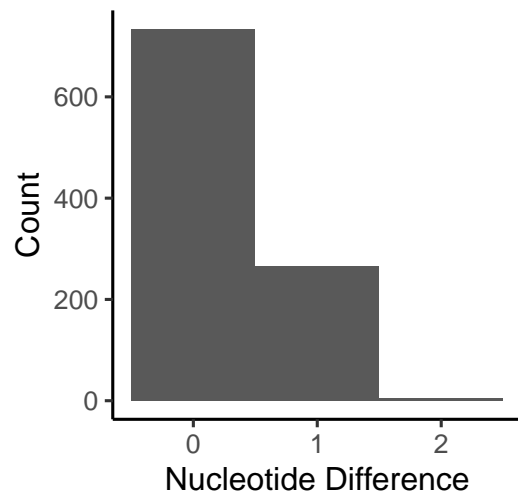
### TRBV29-1\*ap01

4355 sequences assigned  
4301 (98.8%) exact matches, in which:  
4244 unique CDR3  
13 unique J



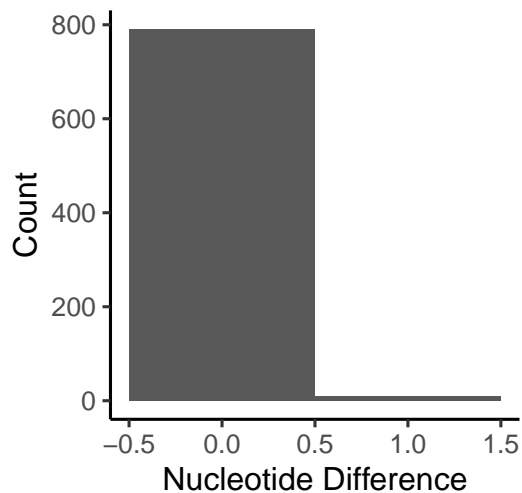
### TRBV7-8\*ap03

1004 sequences assigned  
734 (73.1%) exact matches, in which:  
723 unique CDR3  
13 unique J



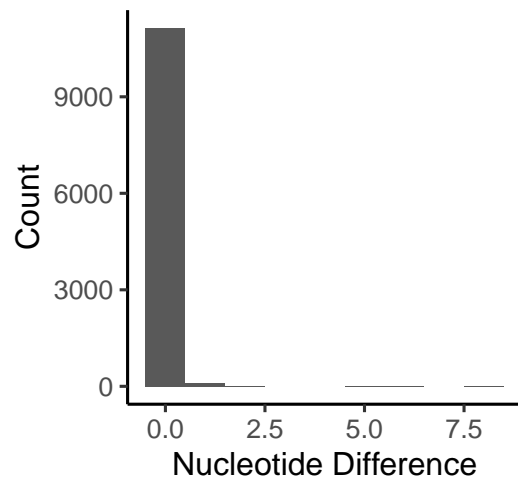
### TRBV29-1\*ap02

800 sequences assigned  
791 (98.9%) exact matches, in which:  
782 unique CDR3  
13 unique J

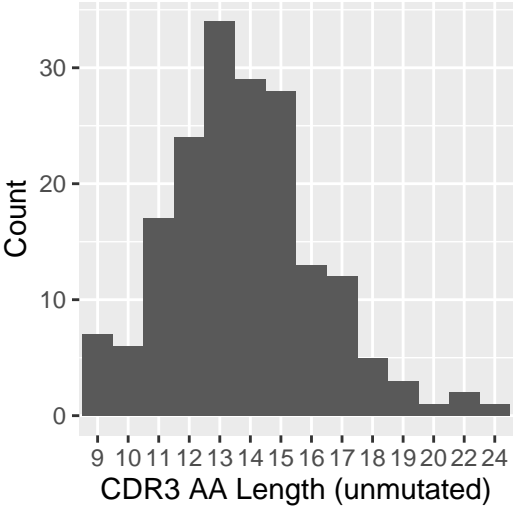


### TRBV7-9\*ap01

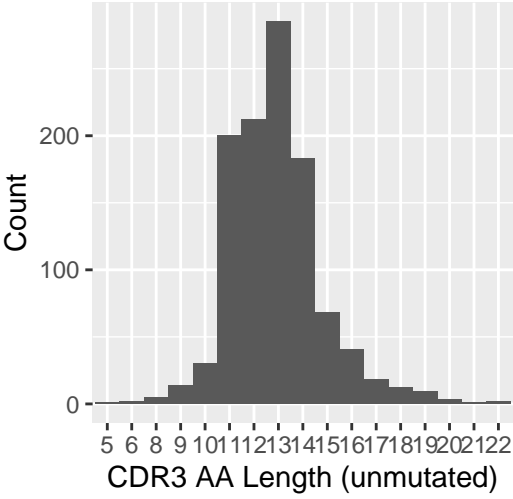
11241 sequences assigned  
11137 (99.1%) exact matches, in which:  
11009 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]