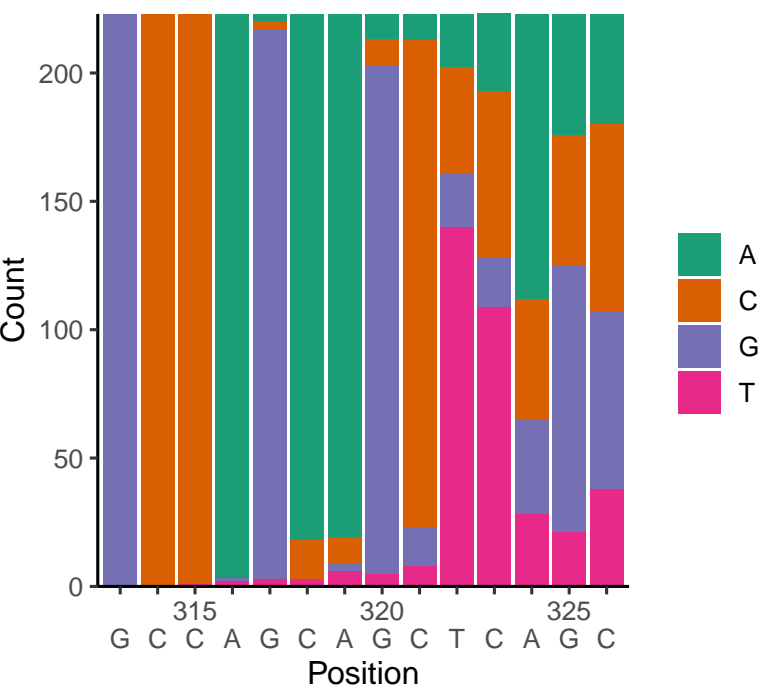
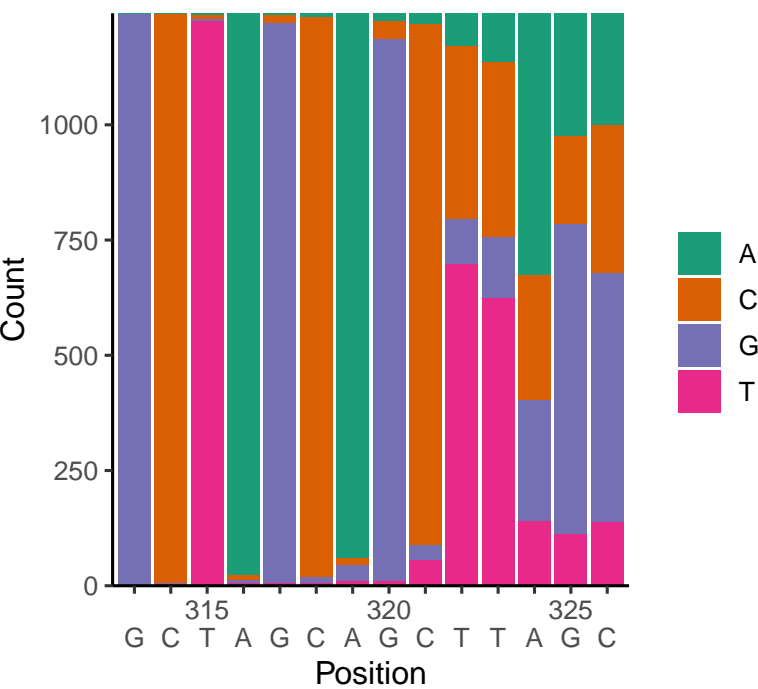


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



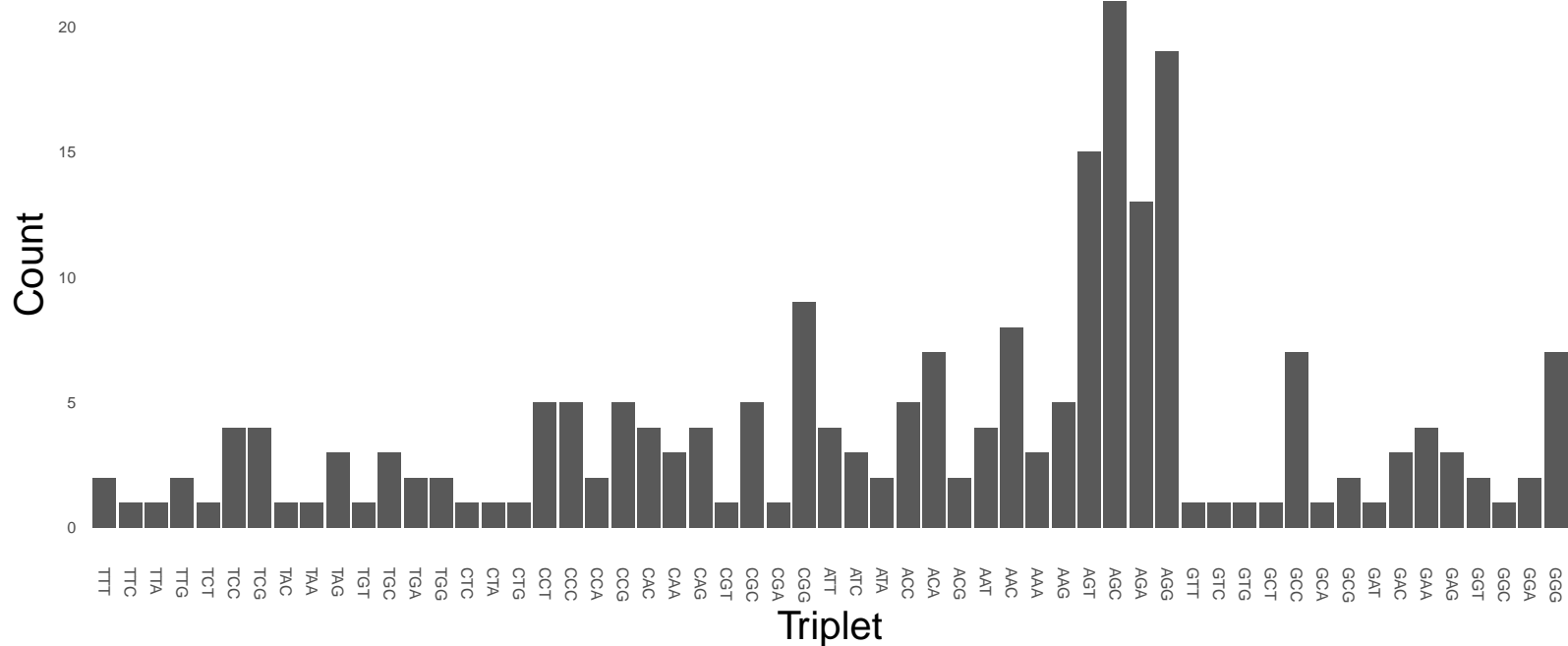
Gene TRBV7-1\*ap01\_G291C\_T296C



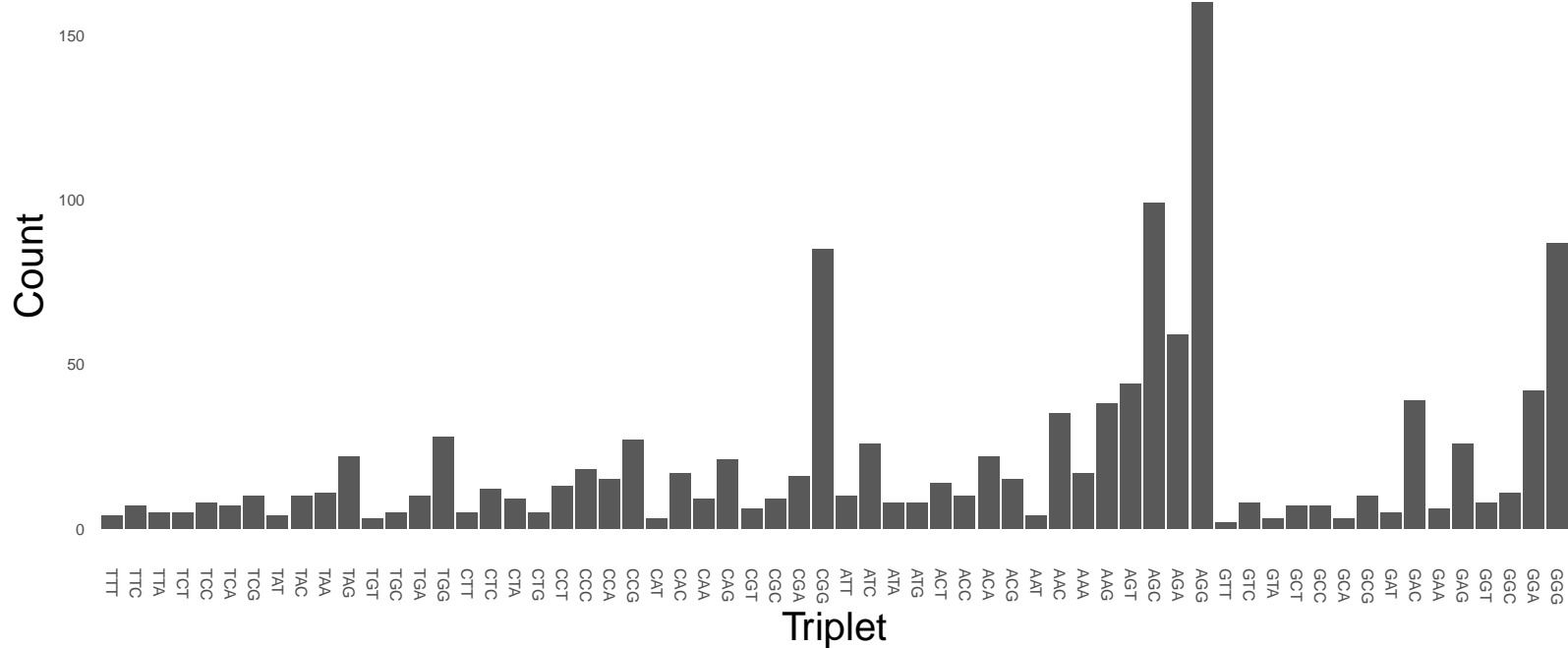
Gene TRBV7-7\*ap01\_C315T



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

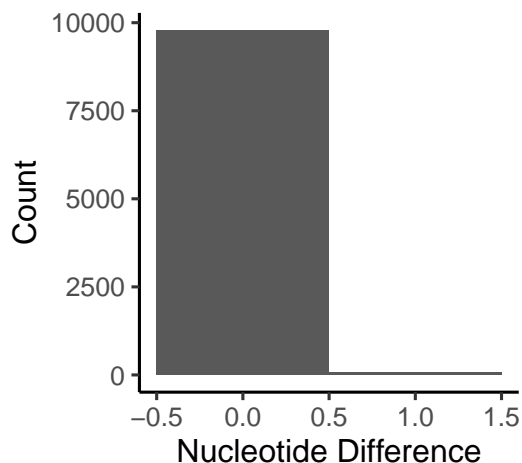


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



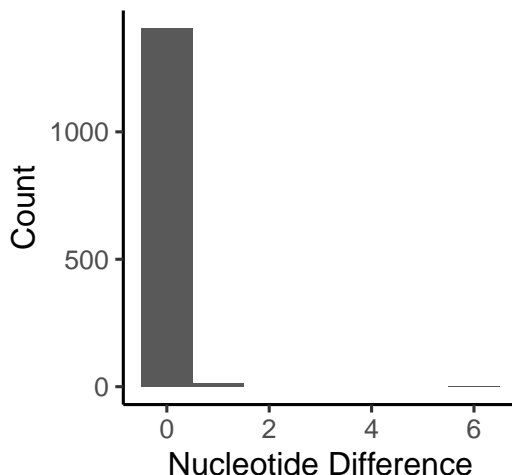
### TRBV20-1\*ap01

9871 sequences assigned  
9788 (99.2%) exact matches, in which:  
9719 unique CDR3  
13 unique J



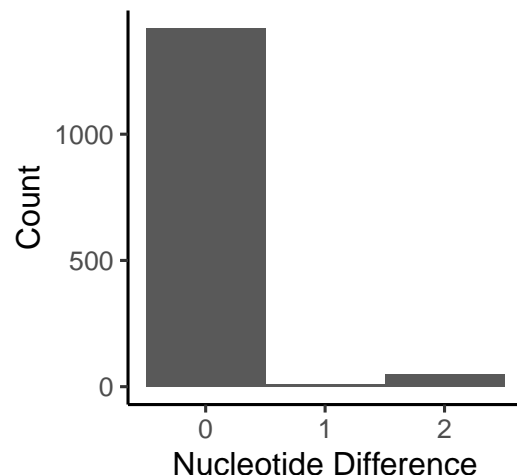
### TRBV10-2\*ap01

1423 sequences assigned  
1406 (98.8%) exact matches, in which:  
1398 unique CDR3  
13 unique J



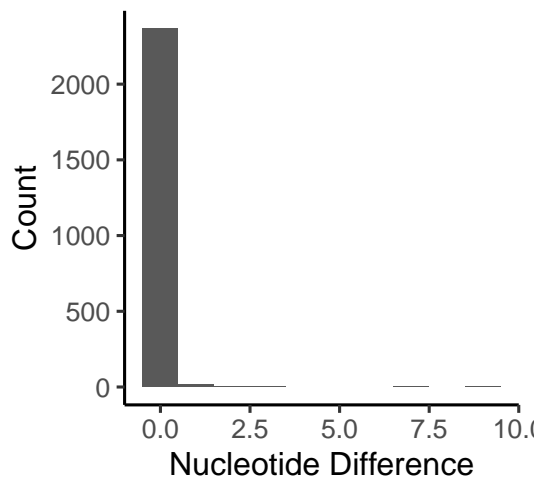
### TRBV13\*ap01

1478 sequences assigned  
1419 (96%) exact matches, in which:  
1406 unique CDR3  
13 unique J



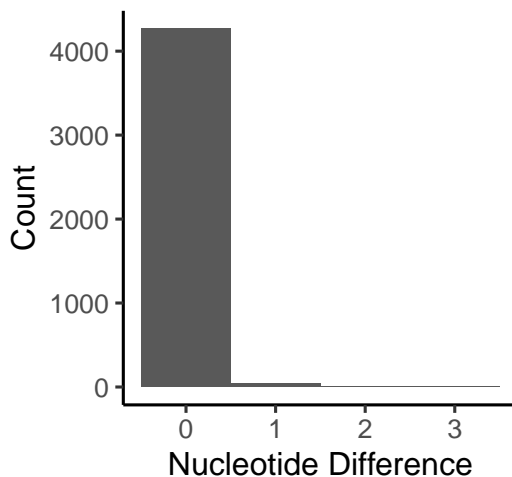
### TRBV10-1\*ap01

2390 sequences assigned  
2366 (99%) exact matches, in which:  
2342 unique CDR3  
13 unique J



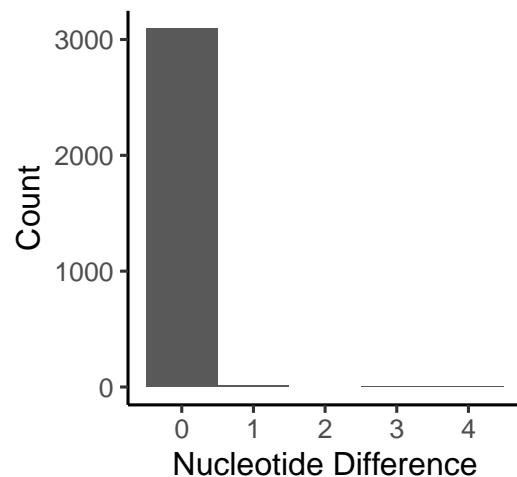
### TRBV10-3\*ap01

4317 sequences assigned  
4267 (98.8%) exact matches, in which:  
4228 unique CDR3  
13 unique J



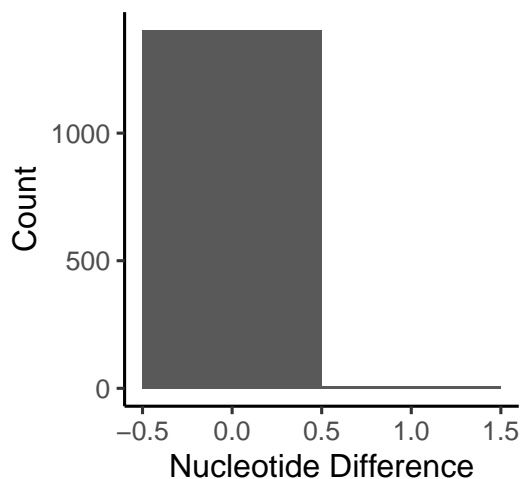
### TRBV14\*ap01

3106 sequences assigned  
3093 (99.6%) exact matches, in which:  
3078 unique CDR3  
13 unique J



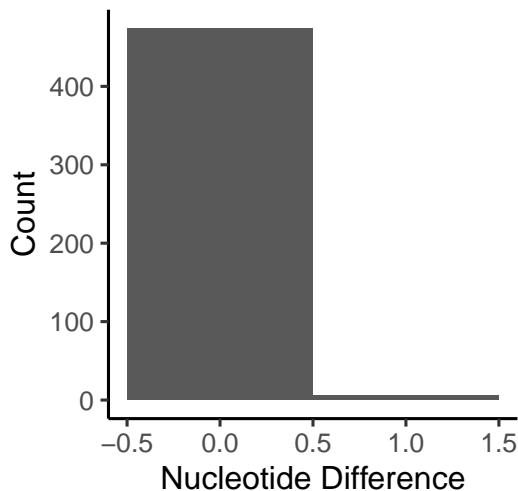
### TRBV20-1\*ap02

1414 sequences assigned  
1404 (99.3%) exact matches, in which:  
1394 unique CDR3  
13 unique J



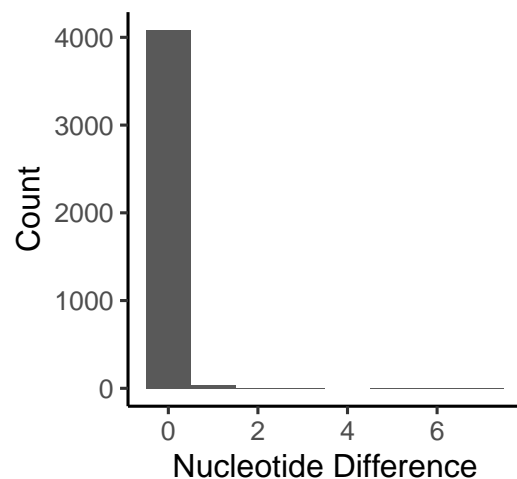
### TRBV1\*ap01

480 sequences assigned  
474 (98.8%) exact matches, in which:  
467 unique CDR3  
13 unique J



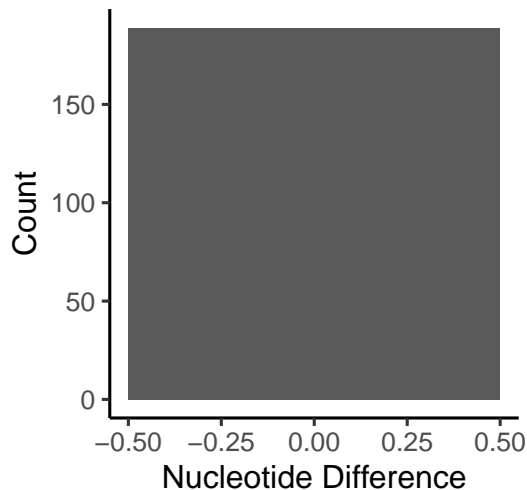
### TRBV15\*ap02

4127 sequences assigned  
4083 (98.9%) exact matches, in which:  
4050 unique CDR3  
13 unique J



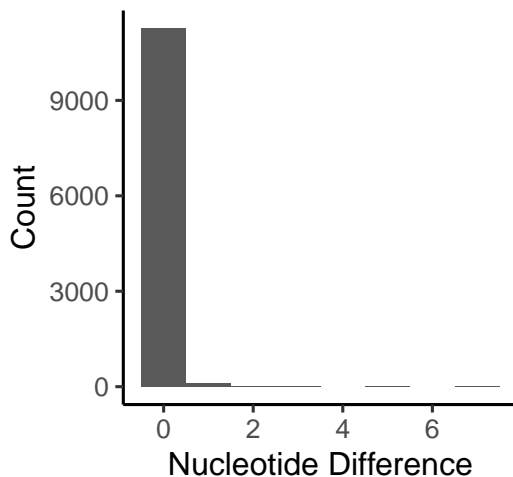
### TRBV16\*ap01

189 sequences assigned  
189 (100%) exact matches, in which:  
189 unique CDR3  
12 unique J



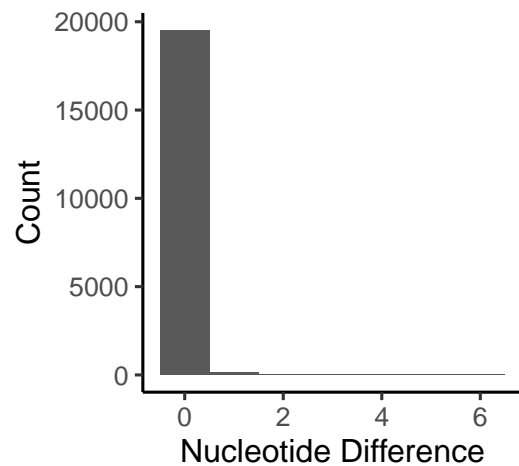
### TRBV2\*ap01

11386 sequences assigned  
11263 (98.9%) exact matches, in which:  
11190 unique CDR3  
13 unique J



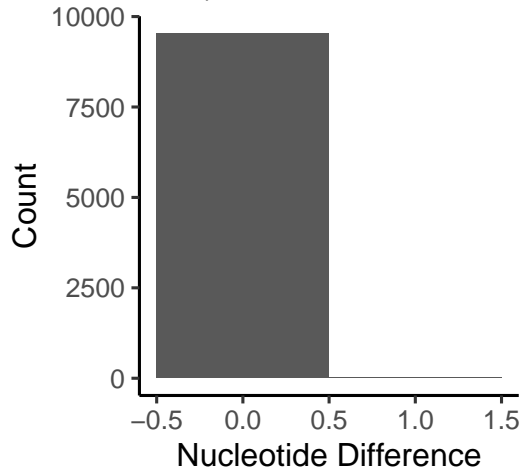
### TRBV28\*ap01

19668 sequences assigned  
19525 (99.3%) exact matches, in which:  
19385 unique CDR3  
13 unique J



### TRBV18\*ap01

9556 sequences assigned  
9533 (99.8%) exact matches, in which:  
9494 unique CDR3  
13 unique J



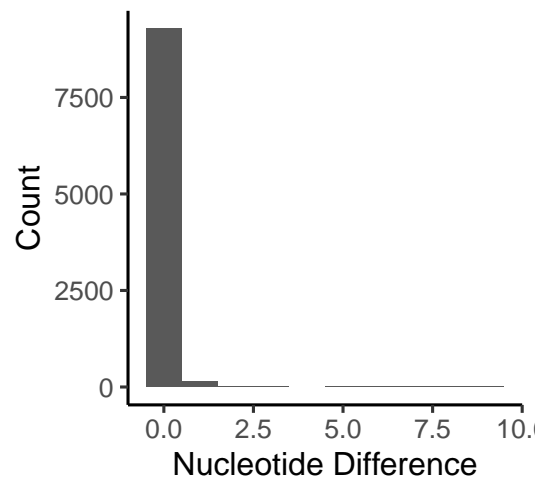
### TRBV26\*ap01

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



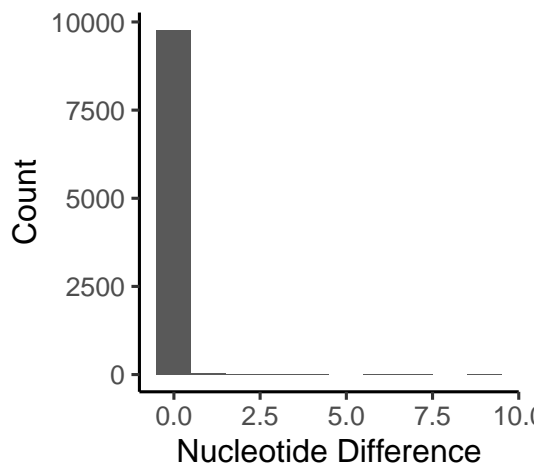
### TRBV30\*ap01

9434 sequences assigned  
9280 (98.4%) exact matches, in which:  
9204 unique CDR3  
13 unique J



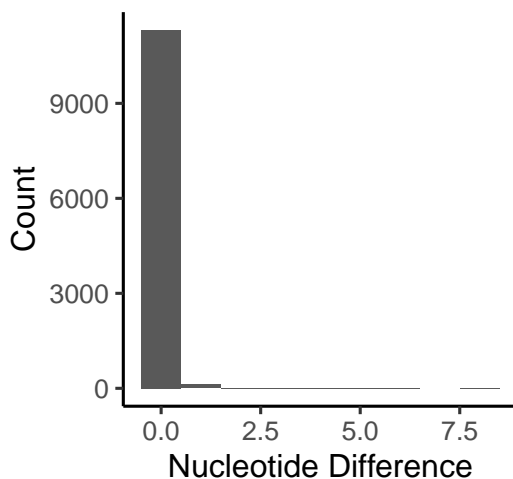
### TRBV19\*ap01

9844 sequences assigned  
9778 (99.3%) exact matches, in which:  
9754 unique CDR3  
13 unique J



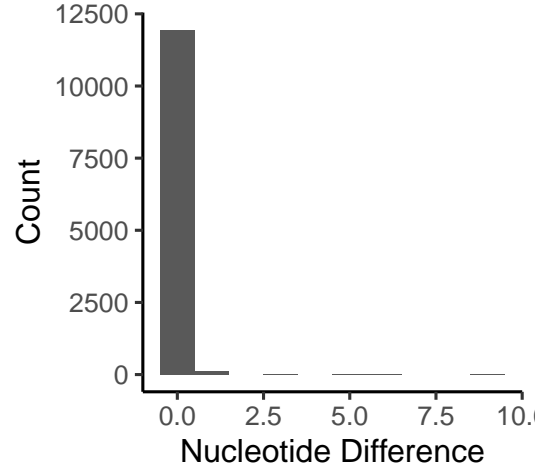
### TRBV27\*ap01

11453 sequences assigned  
11315 (98.8%) exact matches, in which:  
11198 unique CDR3  
13 unique J



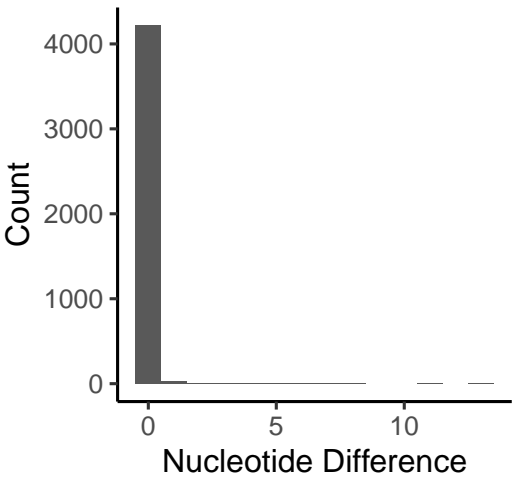
### TRBV9\*ap01

12066 sequences assigned  
11948 (99%) exact matches, in which:  
11839 unique CDR3  
13 unique J



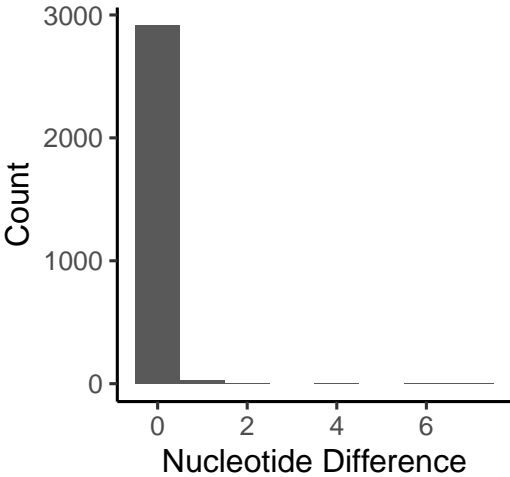
TRBV21-1\*ap01

4280 sequences assigned  
4218 (98.6%) exact matches, in which:  
4207 unique CDR3  
13 unique J



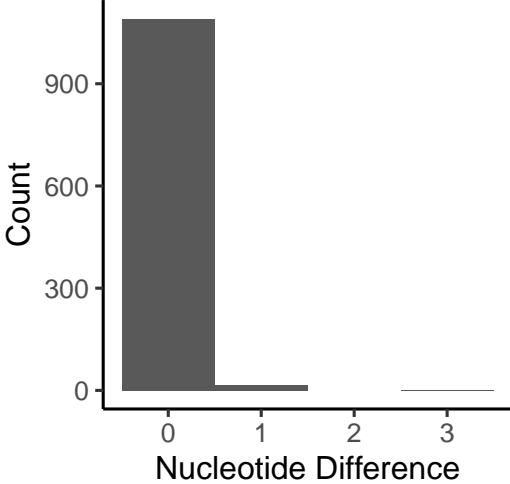
TRBV11-3\*ap01

2949 sequences assigned  
2915 (98.8%) exact matches, in which:  
2894 unique CDR3  
13 unique J



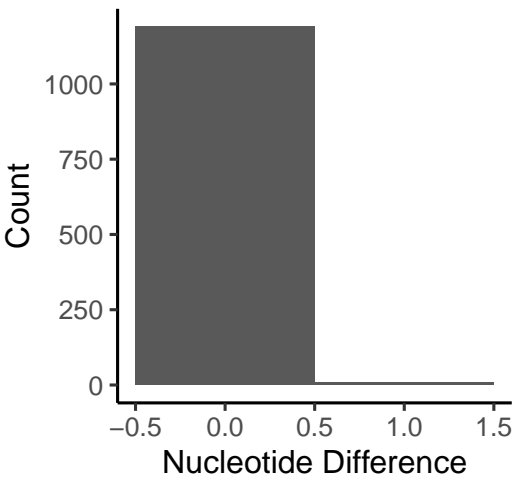
TRBV12-5\*ap01

1107 sequences assigned  
1091 (98.6%) exact matches, in which:  
1082 unique CDR3  
13 unique J



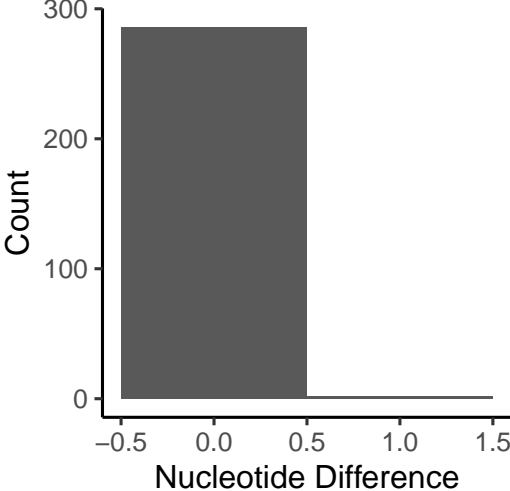
TRBV11-1\*ap01

1197 sequences assigned  
1190 (99.4%) exact matches, in which:  
1181 unique CDR3  
13 unique J



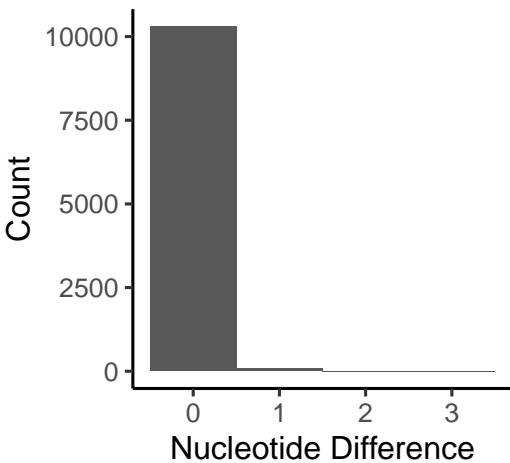
TRBV12-1\*ap01

288 sequences assigned  
286 (99.3%) exact matches, in which:  
286 unique CDR3  
13 unique J



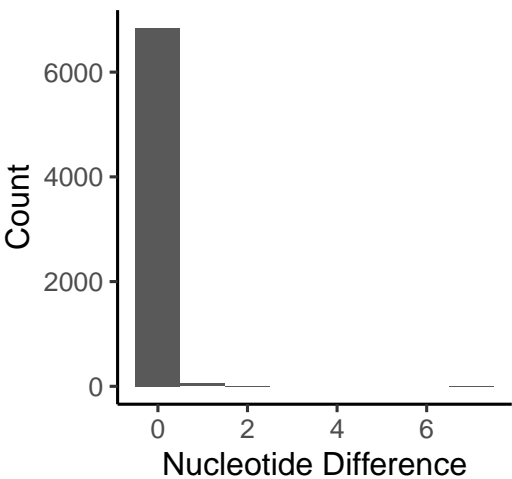
TRBV12-34\*ap01

10382 sequences assigned  
10302 (99.2%) exact matches, in which:  
10228 unique CDR3  
13 unique J



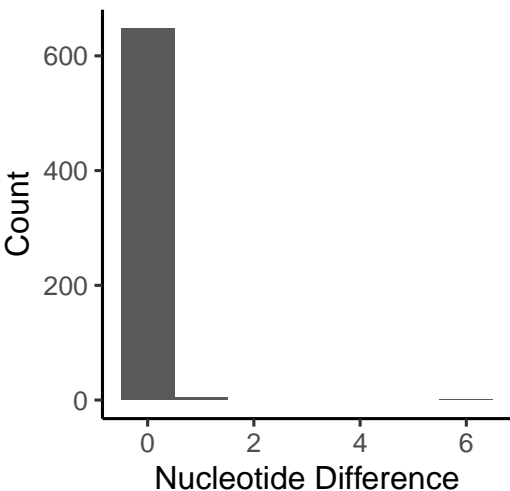
TRBV11-2\*ap01

6896 sequences assigned  
6842 (99.2%) exact matches, in which:  
6773 unique CDR3  
13 unique J



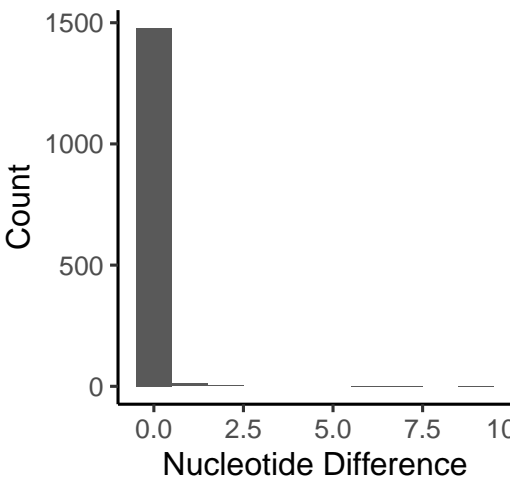
TRBV12-2\*ap01

654 sequences assigned  
648 (99.1%) exact matches, in which:  
641 unique CDR3  
13 unique J



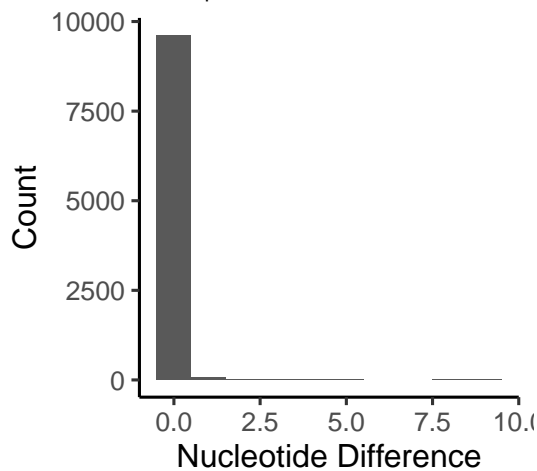
TRBV23-1\*ap01

1497 sequences assigned  
1478 (98.7%) exact matches, in which:  
1467 unique CDR3  
13 unique J



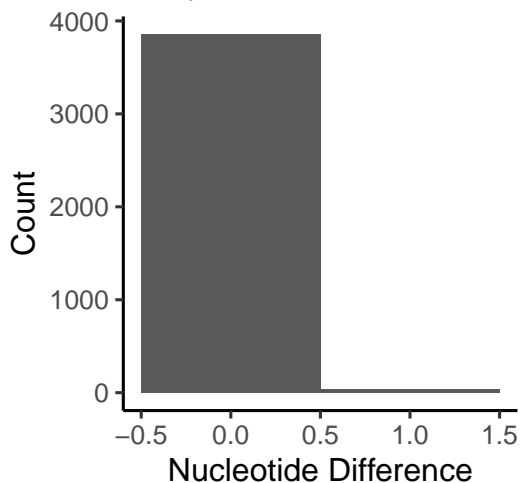
### TRBV3-12\*ap01

9698 sequences assigned  
9620 (99.2%) exact matches, in which:  
9546 unique CDR3  
14 unique J



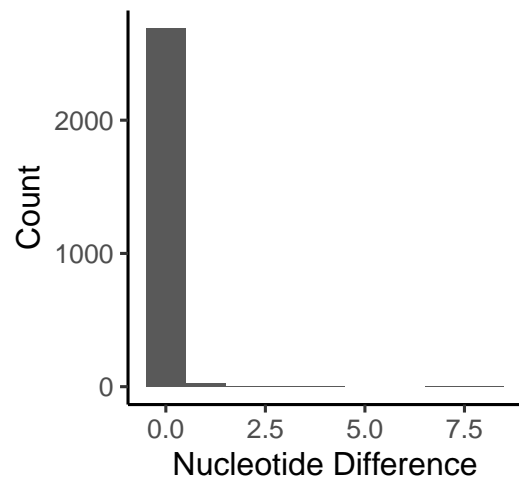
### TRBV4-2\*ap01

3896 sequences assigned  
3855 (98.9%) exact matches, in which:  
3822 unique CDR3  
13 unique J



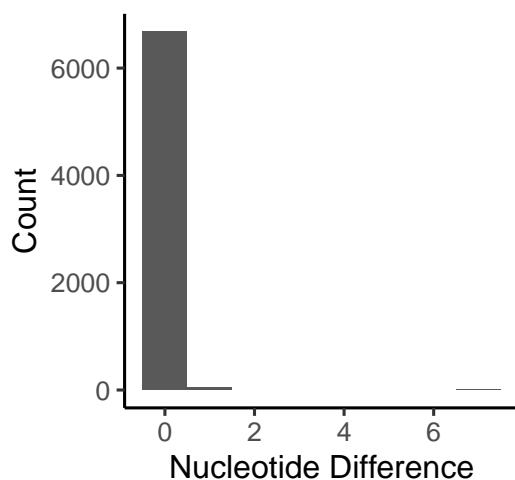
### TRBV25-1\*ap01

2723 sequences assigned  
2689 (98.8%) exact matches, in which:  
2666 unique CDR3  
13 unique J



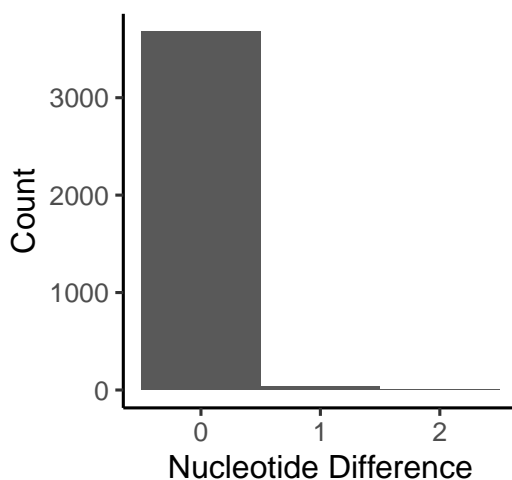
### TRBV4-1\*ap01

6731 sequences assigned  
6678 (99.2%) exact matches, in which:  
6615 unique CDR3  
13 unique J



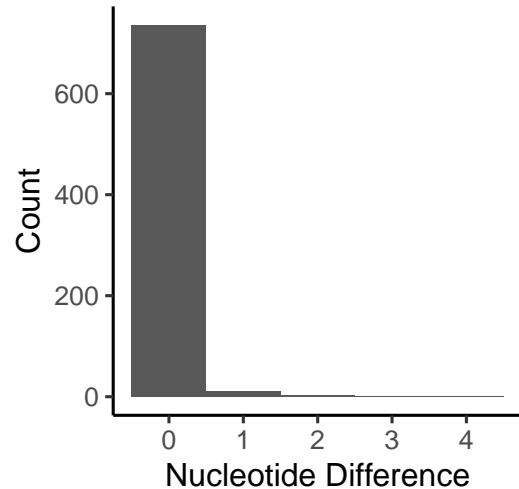
### TRBV4-3\*ap01

3711 sequences assigned  
3677 (99.1%) exact matches, in which:  
3638 unique CDR3  
13 unique J



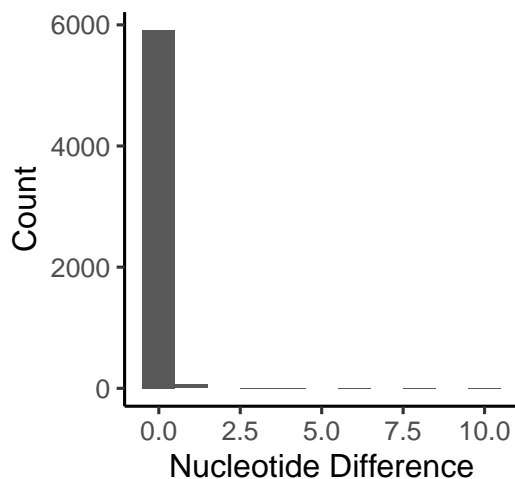
### TRBV5-3\*ap01

750 sequences assigned  
736 (98.1%) exact matches, in which:  
730 unique CDR3  
13 unique J



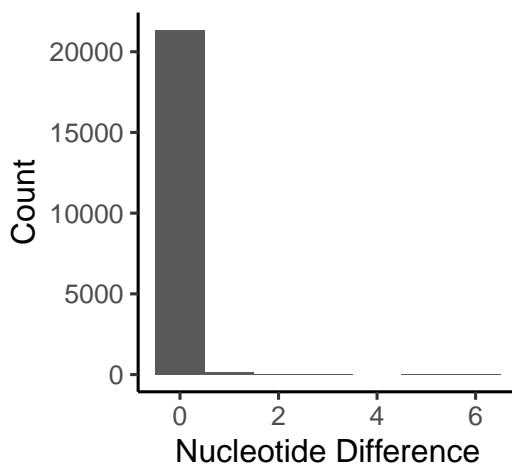
### TRBV24-1\*ap01

5984 sequences assigned  
5914 (98.8%) exact matches, in which:  
5879 unique CDR3  
13 unique J



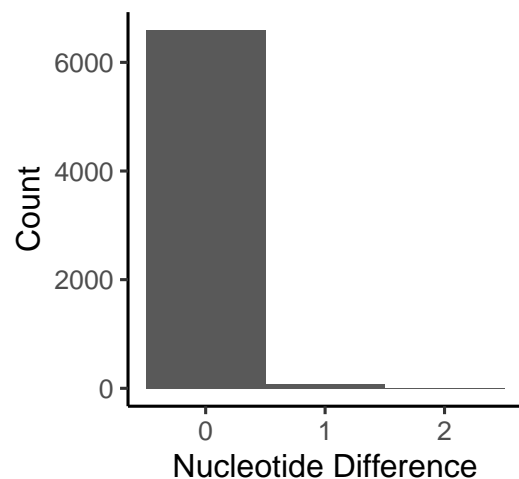
### TRBV5-1\*ap01

21539 sequences assigned  
21360 (99.2%) exact matches, in which:  
21138 unique CDR3  
13 unique J



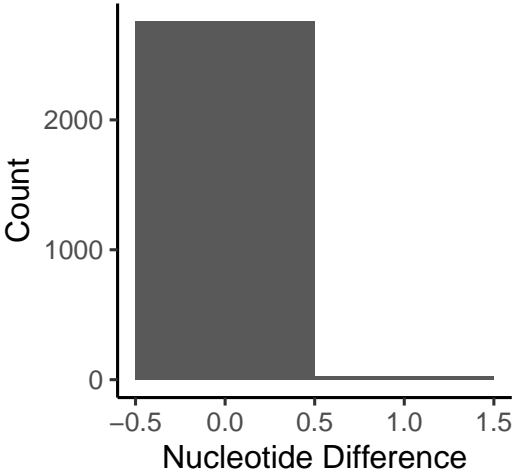
### TRBV5-4\*ap01

6677 sequences assigned  
6595 (98.8%) exact matches, in which:  
6518 unique CDR3  
13 unique J



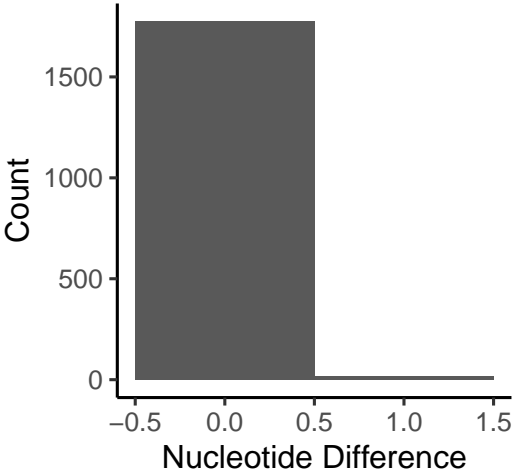
TRBV5-5\*ap01

2787 sequences assigned  
2758 (99%) exact matches, in which:  
2743 unique CDR3  
13 unique J



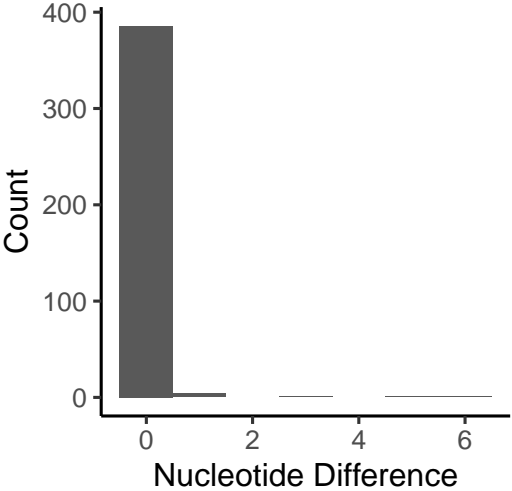
TRBV5-8\*ap01

1792 sequences assigned  
1775 (99.1%) exact matches, in which:  
1765 unique CDR3  
13 unique J



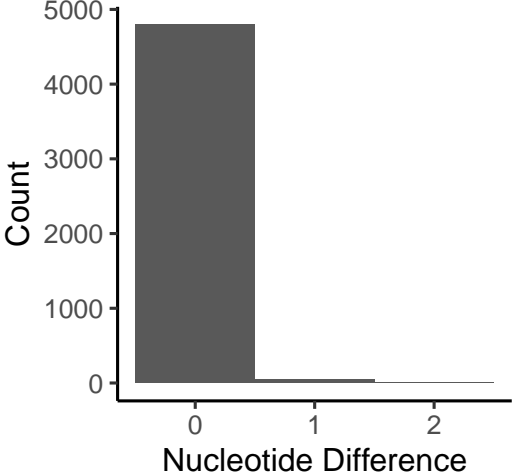
TRBV6-7\*ap01

393 sequences assigned  
386 (98.2%) exact matches, in which:  
383 unique CDR3  
13 unique J



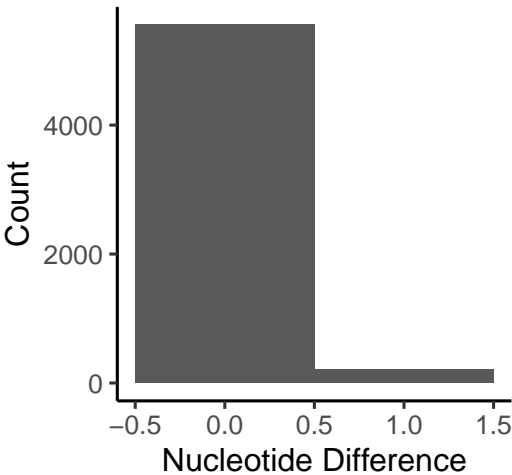
TRBV5-6\*ap01

4848 sequences assigned  
4795 (98.9%) exact matches, in which:  
4751 unique CDR3  
13 unique J



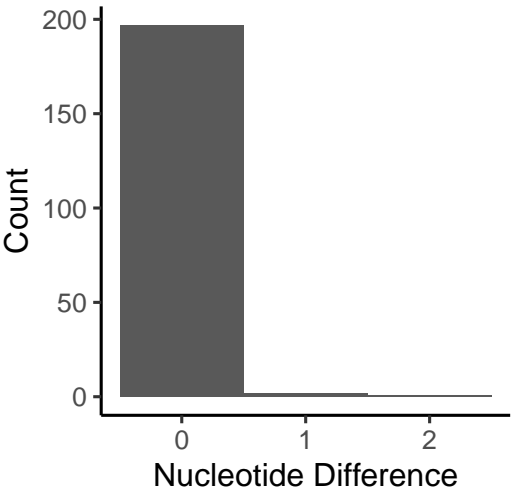
TRBV6-1\*ap01

5767 sequences assigned  
5557 (96.4%) exact matches, in which:  
5491 unique CDR3  
13 unique J



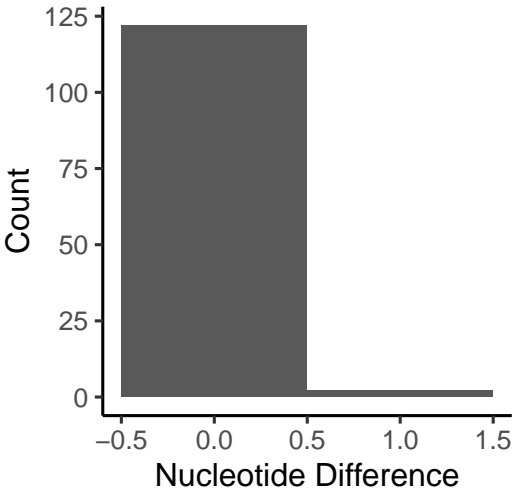
TRBV6-8\*ap01

200 sequences assigned  
197 (98.5%) exact matches, in which:  
196 unique CDR3  
13 unique J



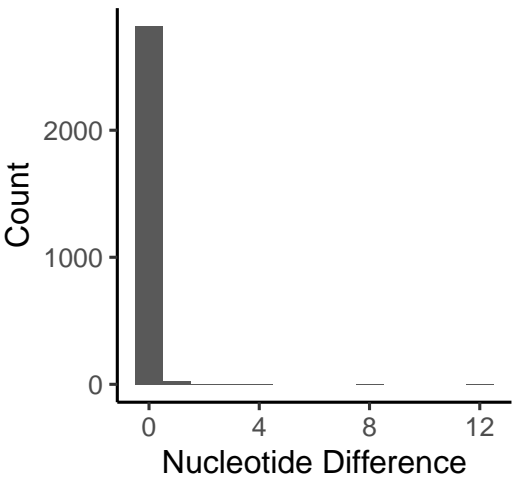
TRBV5-7\*ap01

124 sequences assigned  
122 (98.4%) exact matches, in which:  
121 unique CDR3  
13 unique J



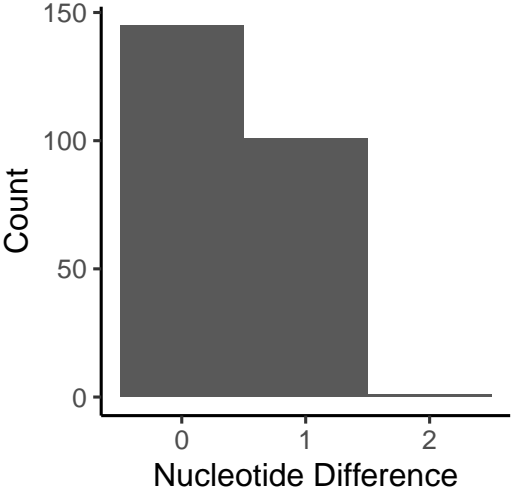
TRBV6-4\*ap01

2855 sequences assigned  
2820 (98.8%) exact matches, in which:  
2803 unique CDR3  
13 unique J



TRBV6-9\*ap01

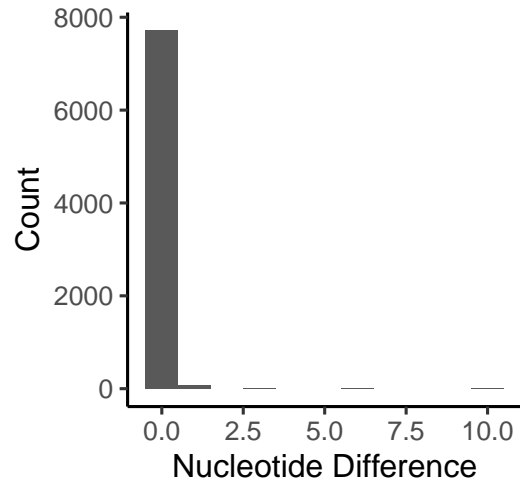
247 sequences assigned  
145 (58.7%) exact matches, in which:  
143 unique CDR3  
13 unique J





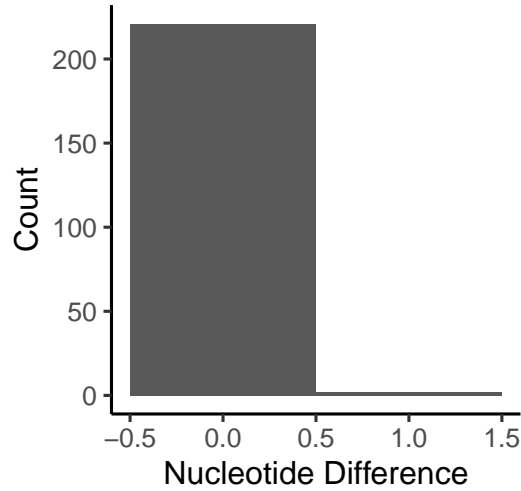
### TRBV6-23\*ap01

7793 sequences assigned  
7717 (99%) exact matches, in which:  
7648 unique CDR3  
13 unique J



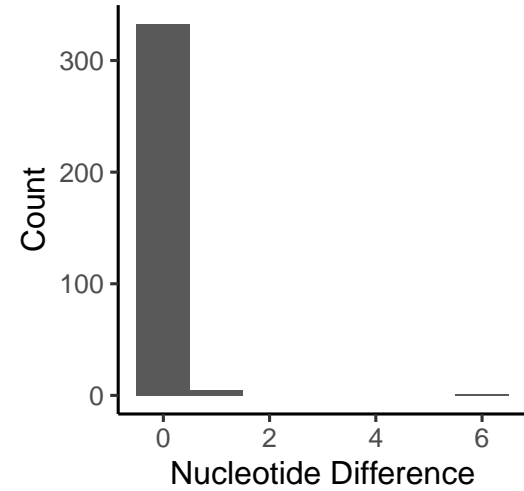
### TRBV7-1\*ap01\_G291C\_

223 sequences assigned  
221 (99.1%) exact matches, in which:  
220 unique CDR3  
13 unique J



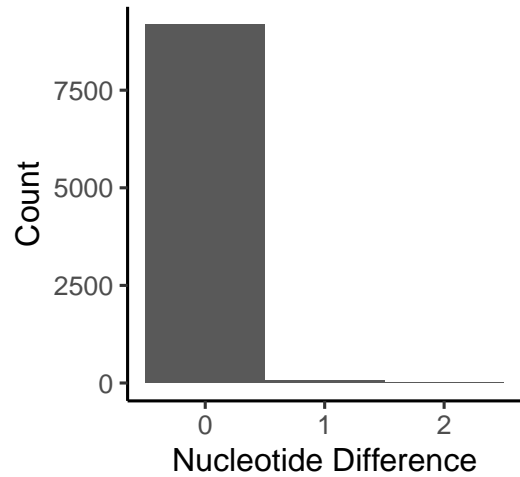
### TRBV7-4\*ap01

339 sequences assigned  
333 (98.2%) exact matches, in which:  
328 unique CDR3  
13 unique J



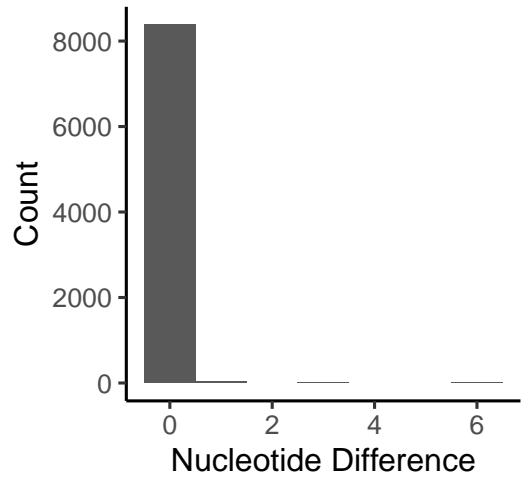
### TRBV6-56\*ap01

9251 sequences assigned  
9177 (99.2%) exact matches, in which:  
9101 unique CDR3  
13 unique J



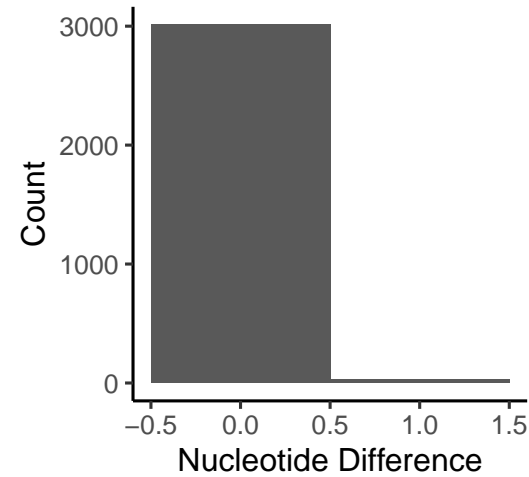
### TRBV7-2\*ap01

8426 sequences assigned  
8382 (99.5%) exact matches, in which:  
8342 unique CDR3  
13 unique J



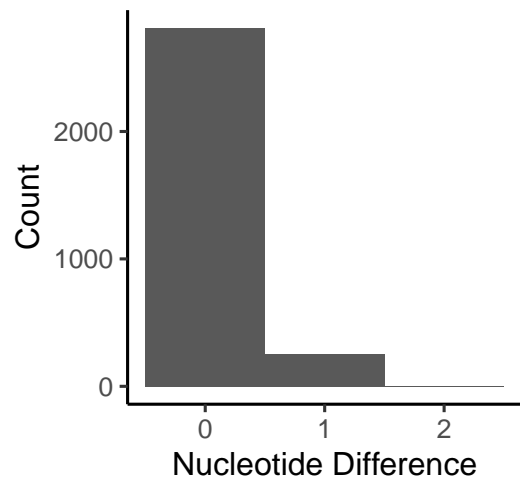
### TRBV7-6\*ap01

3041 sequences assigned  
3012 (99%) exact matches, in which:  
2986 unique CDR3  
13 unique J



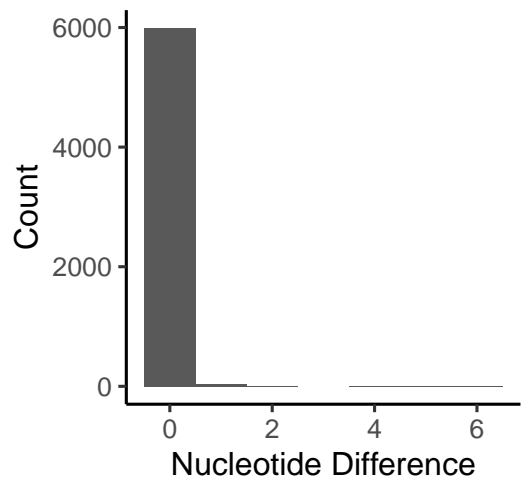
### TRBV6-56\*ap02

3068 sequences assigned  
2812 (91.7%) exact matches, in which:  
2784 unique CDR3  
13 unique J



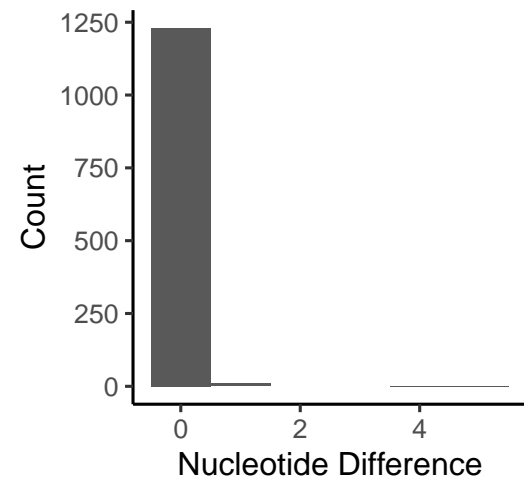
### TRBV7-3\*ap01

6036 sequences assigned  
5991 (99.3%) exact matches, in which:  
5940 unique CDR3  
13 unique J



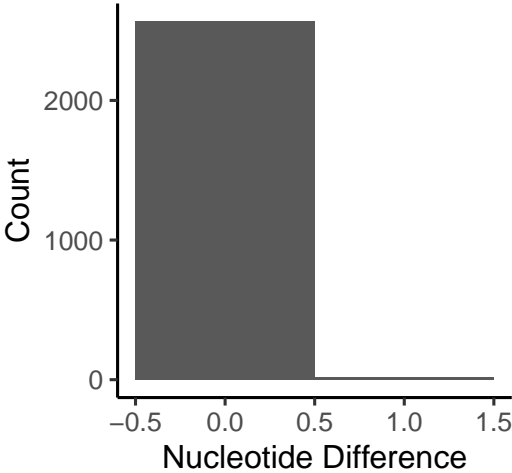
### TRBV7-7\*ap01\_C315T

1242 sequences assigned  
1230 (99%) exact matches, in which:  
1219 unique CDR3  
13 unique J



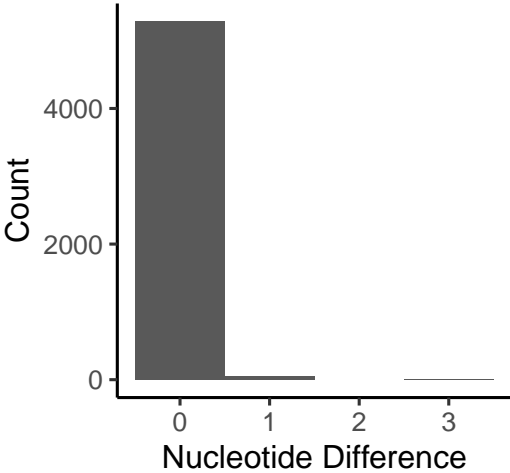
TRBV7-8\*ap01

2585 sequences assigned  
2566 (99.3%) exact matches, in which:  
2545 unique CDR3  
13 unique J



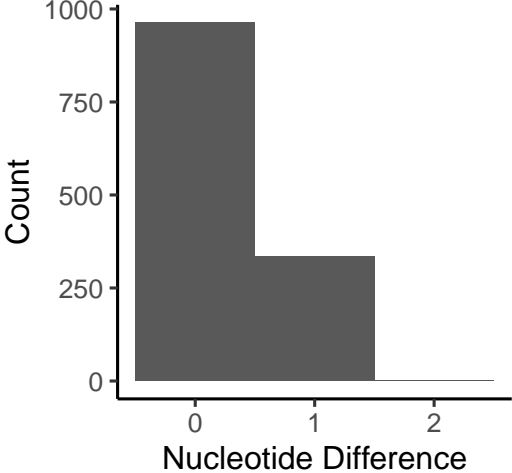
TRBV29-1\*ap01

5331 sequences assigned  
5284 (99.1%) exact matches, in which:  
5240 unique CDR3  
13 unique J



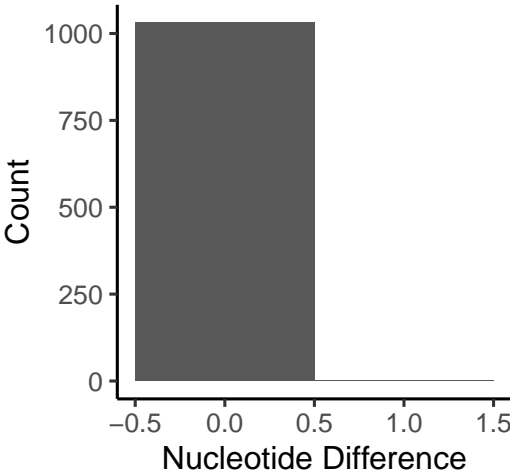
TRBV7-8\*ap03

1298 sequences assigned  
963 (74.2%) exact matches, in which:  
949 unique CDR3  
13 unique J



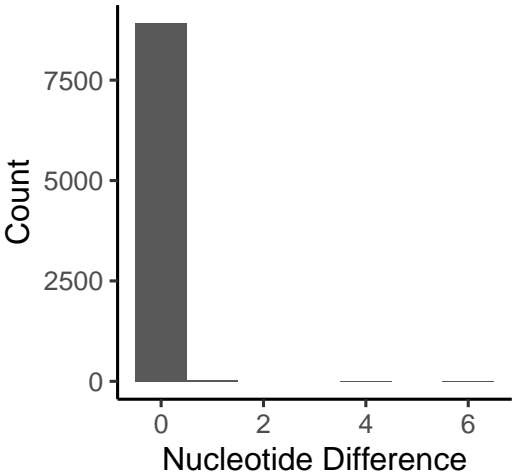
TRBV29-1\*ap02

1032 sequences assigned  
1031 (99.9%) exact matches, in which:  
1025 unique CDR3  
13 unique J

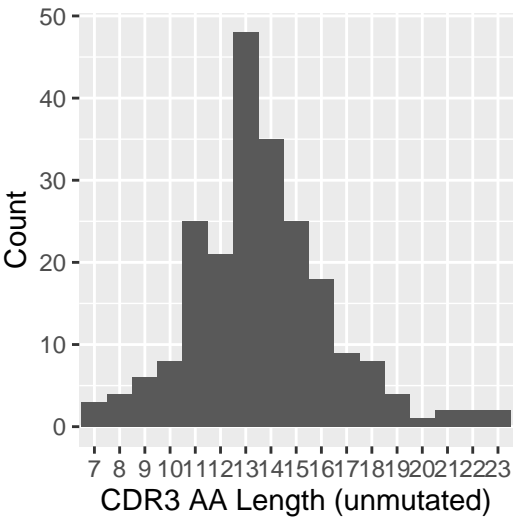


TRBV7-9\*ap01

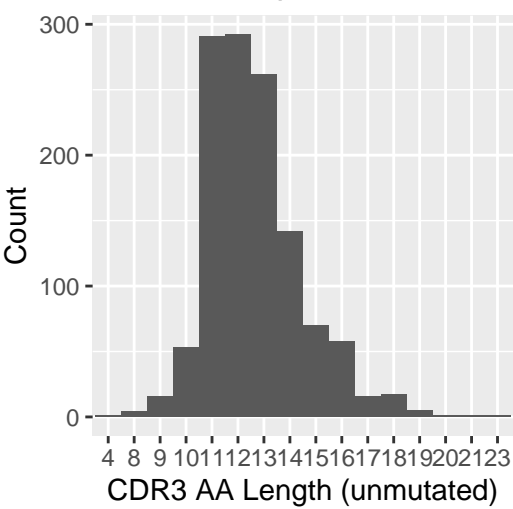
8958 sequences assigned  
8922 (99.6%) exact matches, in which:  
8892 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]