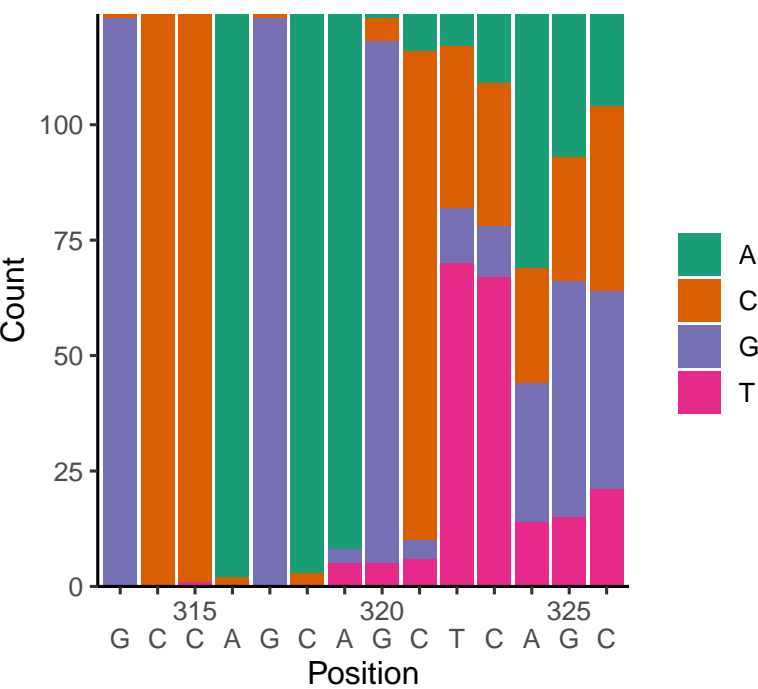
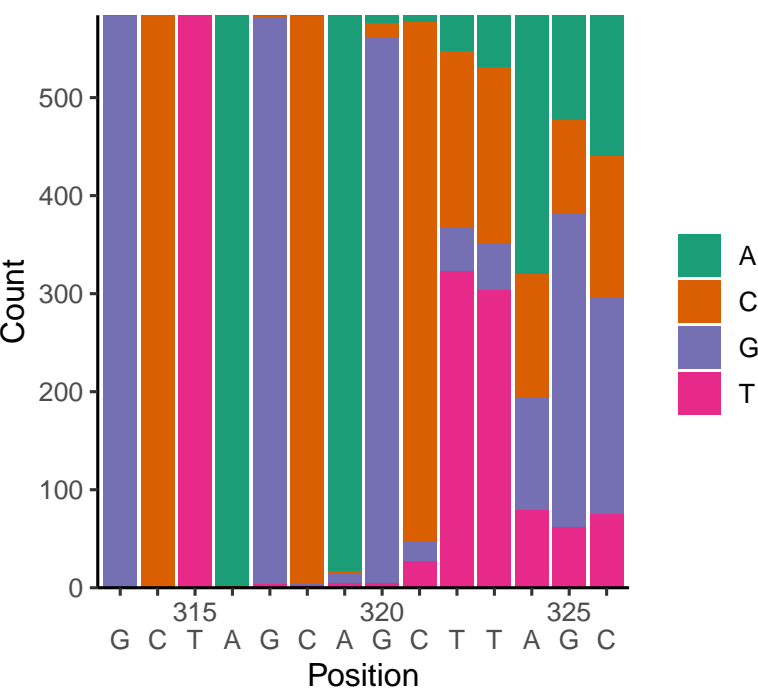


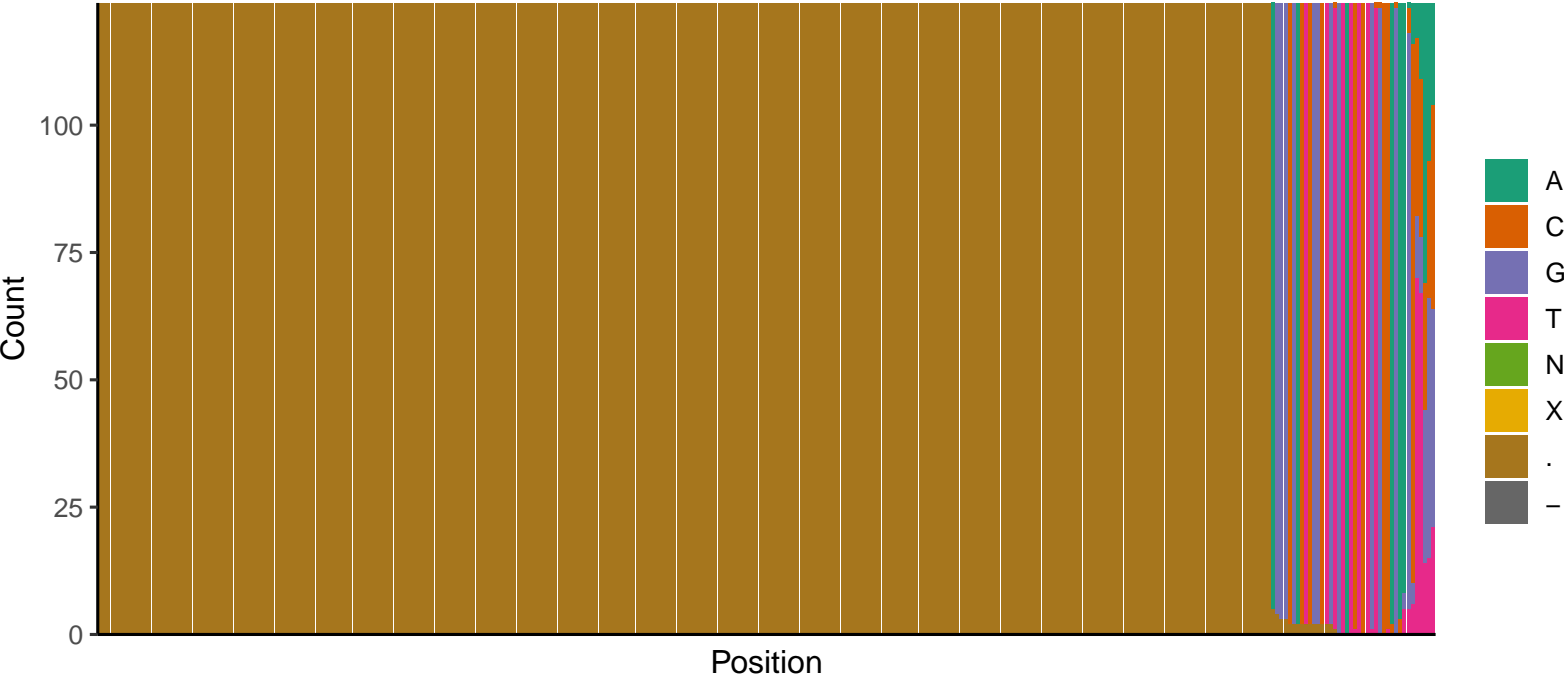
Gene TRBV7-1\*ap01\_G291C\_T296C



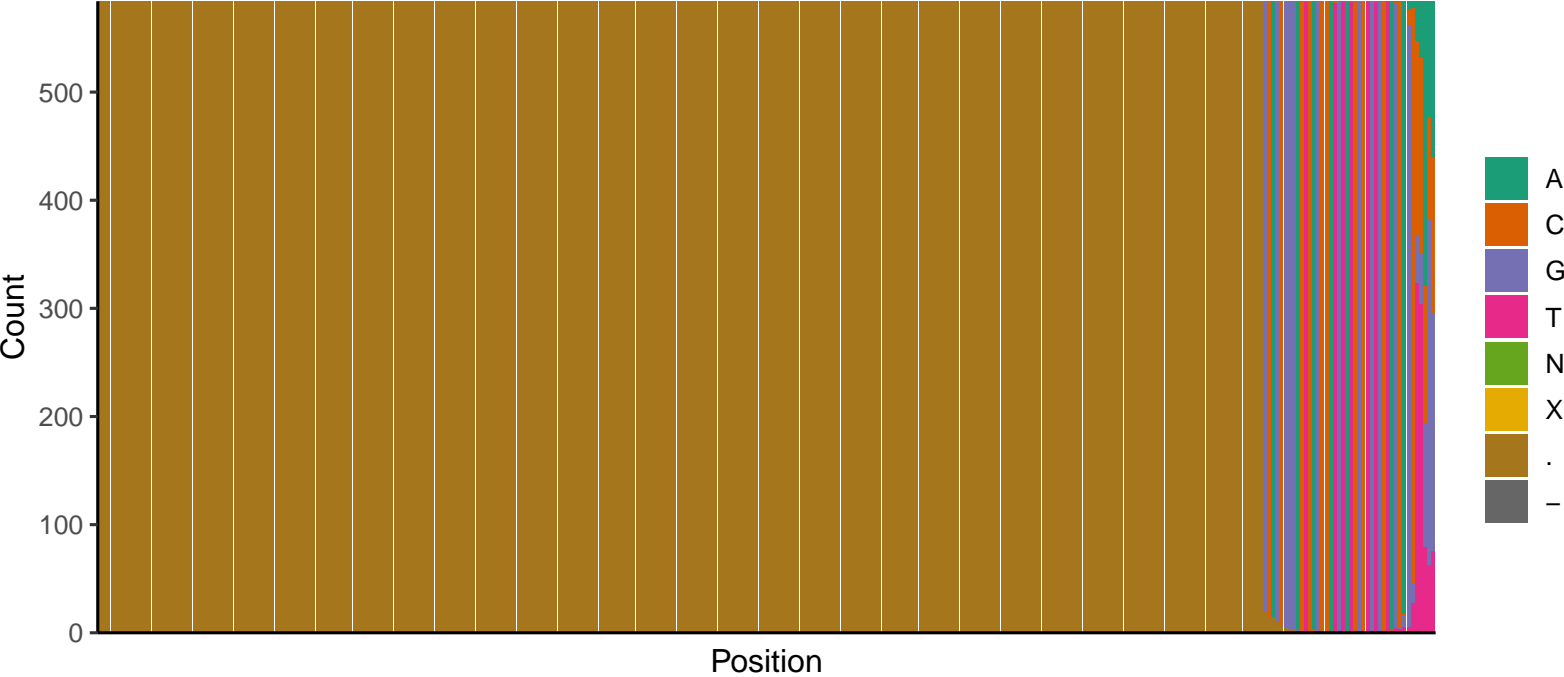
Gene TRBV7-7\*ap01\_C315T



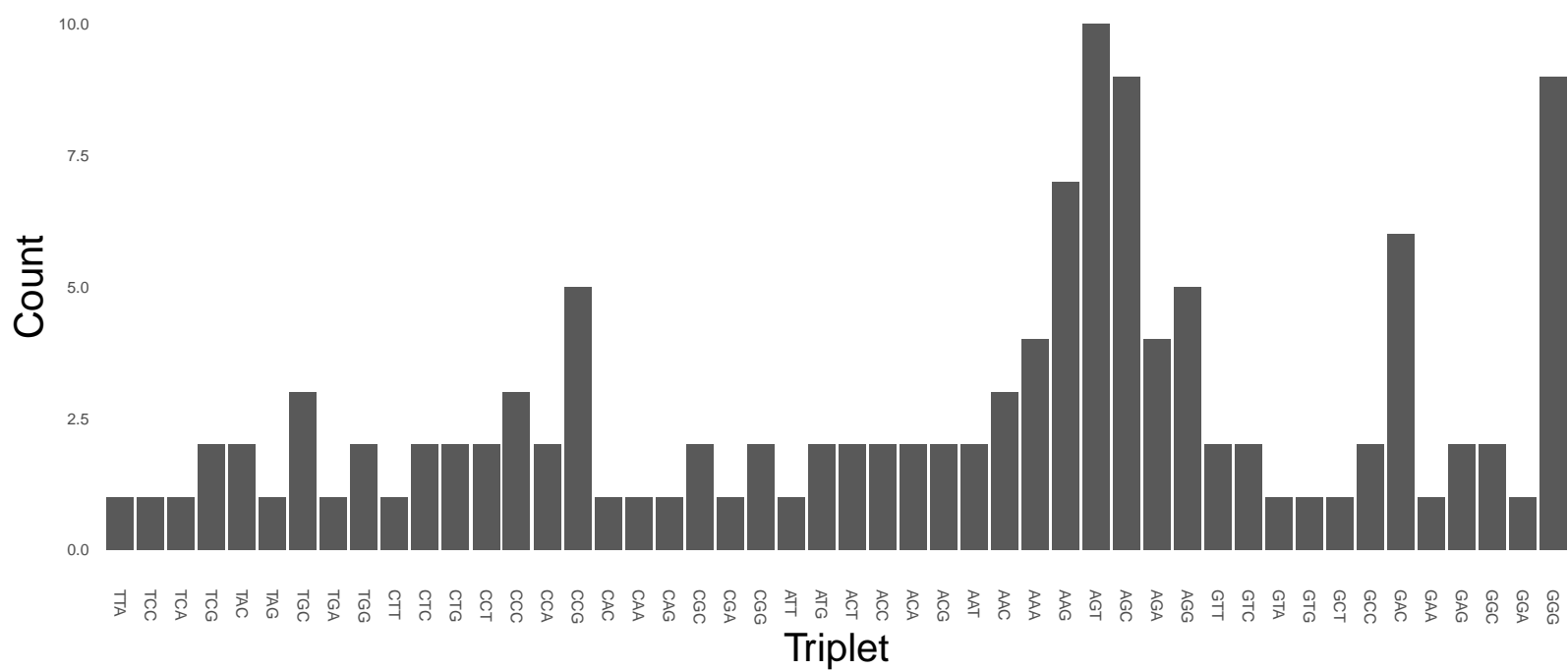
Gene TRBV7-1\*ap01\_G291C\_T296C



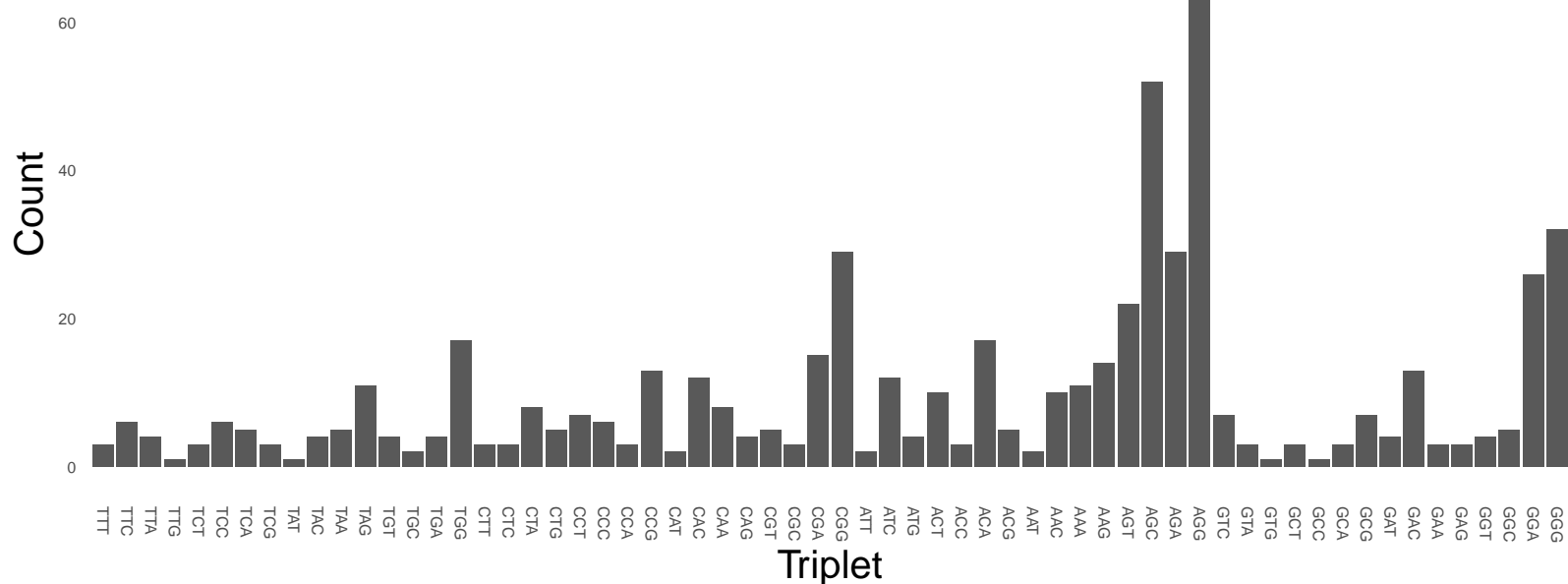
Gene TRBV7-7\*ap01\_C315T



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

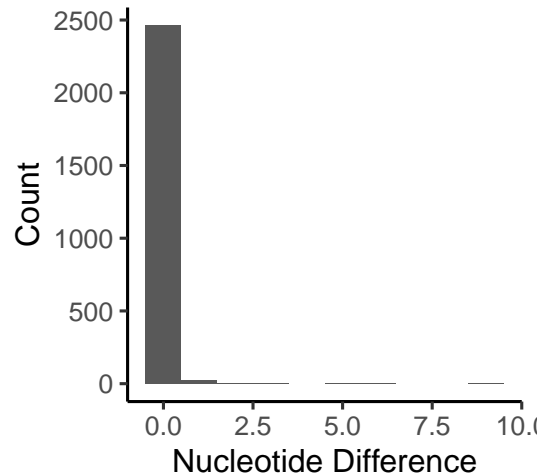


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



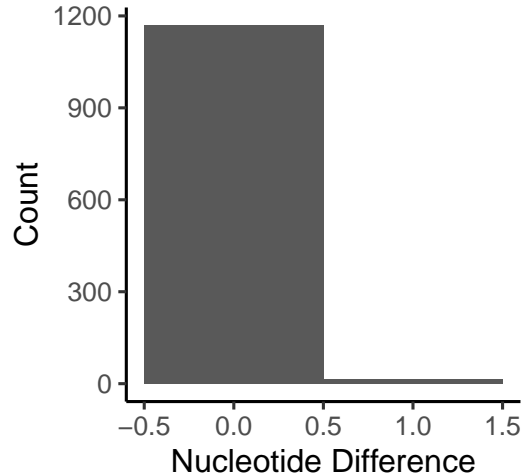
### TRBV10-1\*ap01

2496 sequences assigned  
2463 (98.7%) exact matches, in which:  
2378 unique CDR3  
13 unique J



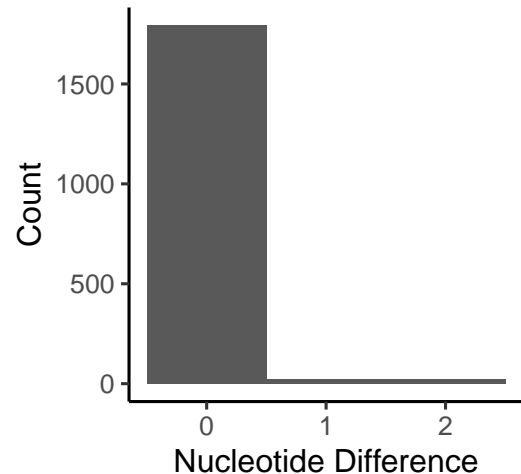
### TRBV10-2\*ap01

1185 sequences assigned  
1169 (98.6%) exact matches, in which:  
1135 unique CDR3  
13 unique J



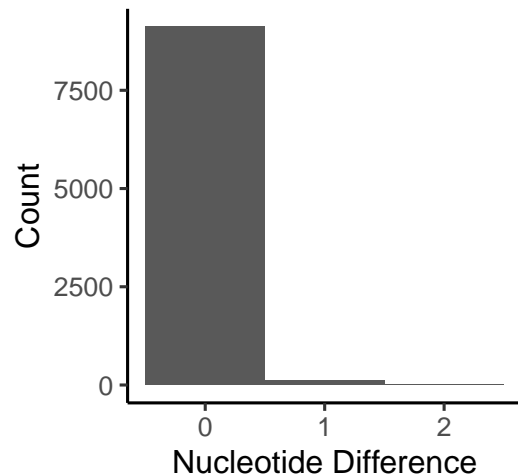
### TRBV13\*ap01

1838 sequences assigned  
1793 (97.6%) exact matches, in which:  
1720 unique CDR3  
13 unique J



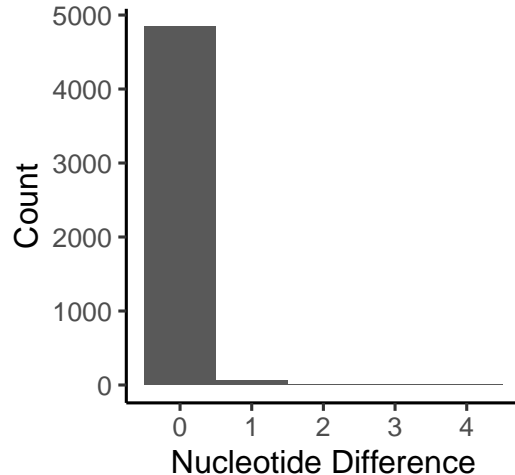
### TRBV20-1\*ap01

9223 sequences assigned  
9118 (98.9%) exact matches, in which:  
8975 unique CDR3  
13 unique J



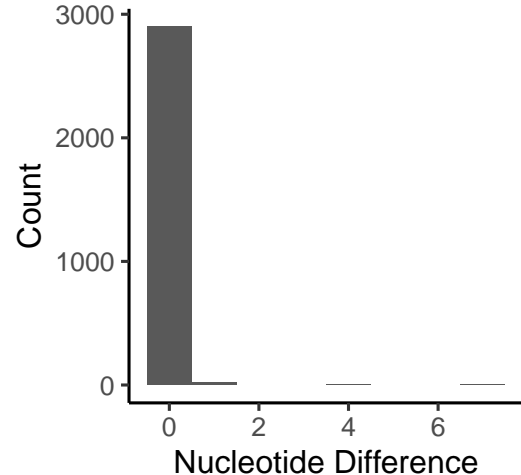
### TRBV10-3\*ap01

4915 sequences assigned  
4842 (98.5%) exact matches, in which:  
4724 unique CDR3  
13 unique J



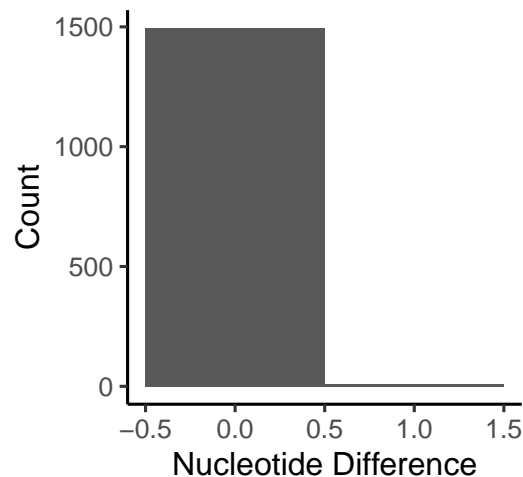
### TRBV14\*ap01

2923 sequences assigned  
2899 (99.2%) exact matches, in which:  
2844 unique CDR3  
13 unique J



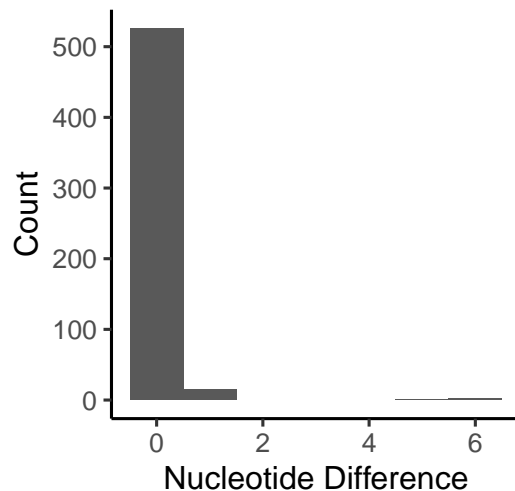
### TRBV20-1\*ap02

1504 sequences assigned  
1495 (99.4%) exact matches, in which:  
1458 unique CDR3  
13 unique J



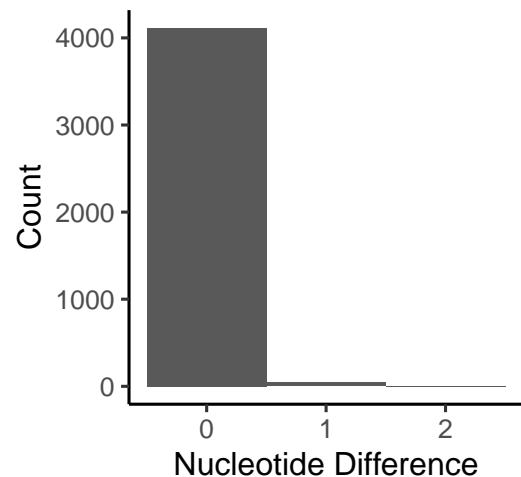
### TRBV1\*ap01

544 sequences assigned  
526 (96.7%) exact matches, in which:  
510 unique CDR3  
13 unique J



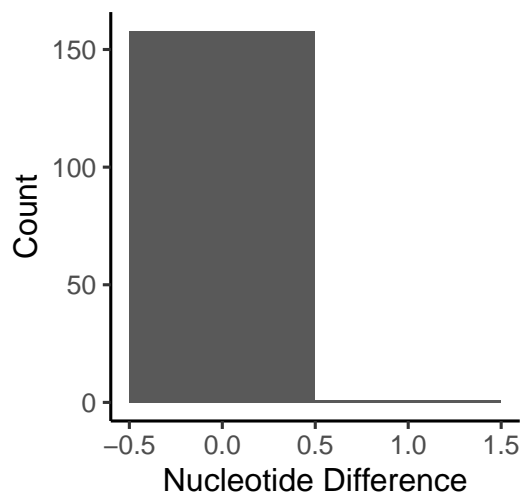
### TRBV15\*ap02

4159 sequences assigned  
4113 (98.9%) exact matches, in which:  
4004 unique CDR3  
13 unique J



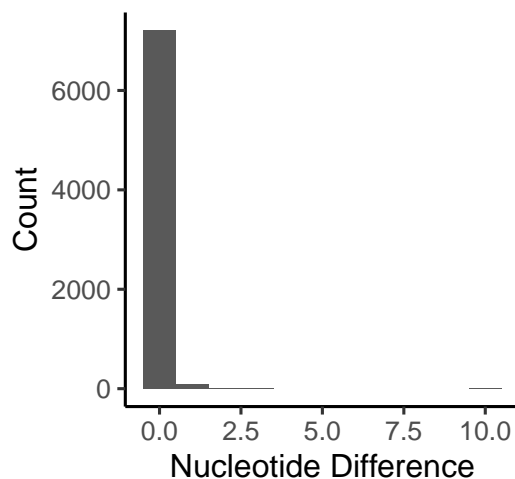
### TRBV16\*ap01

159 sequences assigned  
158 (99.4%) exact matches, in which:  
157 unique CDR3  
13 unique J



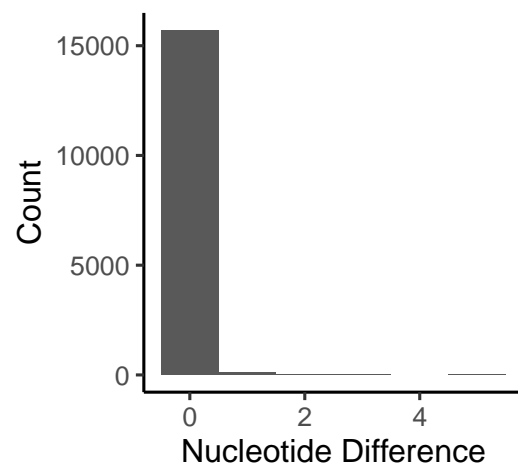
### TRBV2\*ap01

7304 sequences assigned  
7208 (98.7%) exact matches, in which:  
6994 unique CDR3  
13 unique J



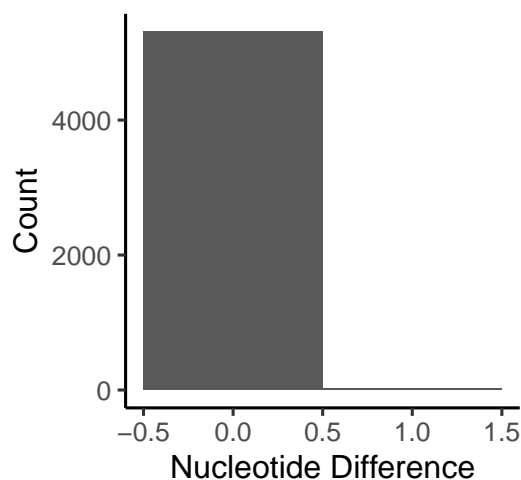
### TRBV28\*ap01

15832 sequences assigned  
15709 (99.2%) exact matches, in which:  
15525 unique CDR3  
13 unique J



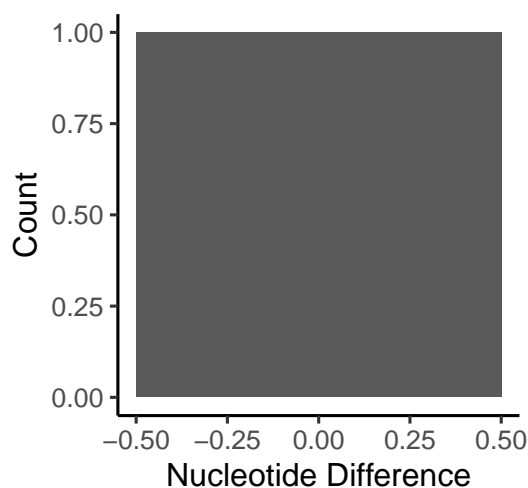
### TRBV18\*ap01

5328 sequences assigned  
5309 (99.6%) exact matches, in which:  
5257 unique CDR3  
13 unique J



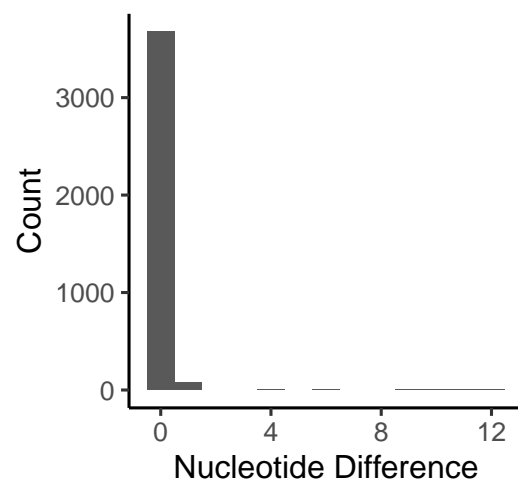
### TRBV26\*ap01

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



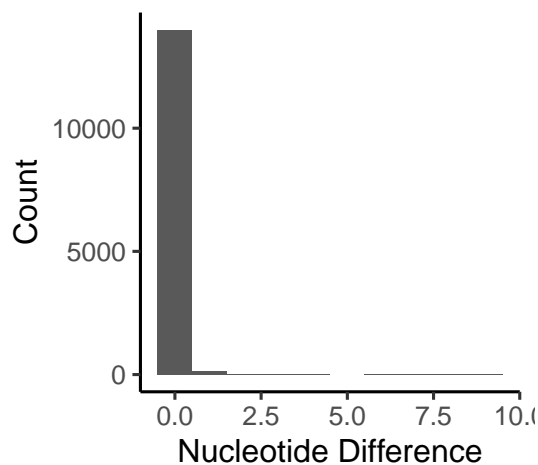
### TRBV30\*ap01

3765 sequences assigned  
3676 (97.6%) exact matches, in which:  
3573 unique CDR3  
13 unique J



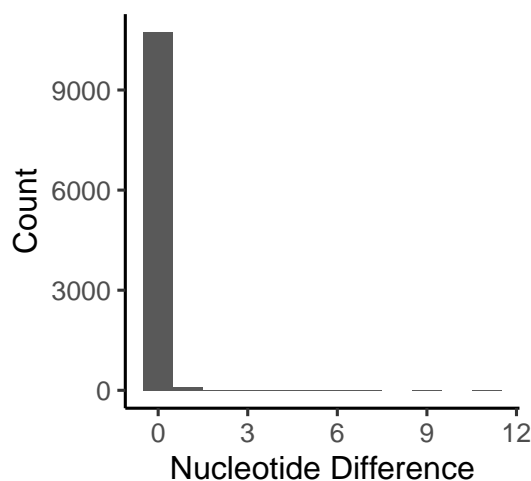
### TRBV19\*ap01

14144 sequences assigned  
13994 (98.9%) exact matches, in which:  
13805 unique CDR3  
13 unique J



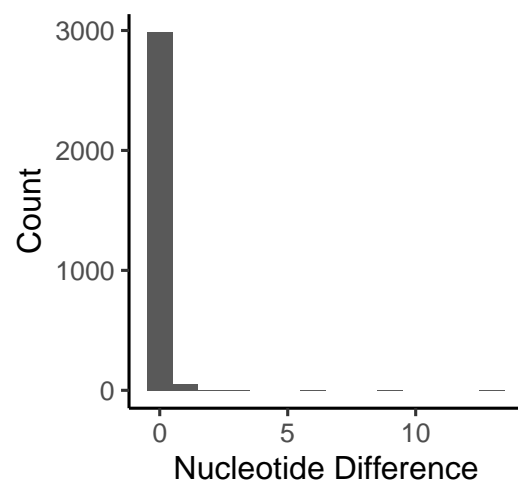
### TRBV27\*ap01

10851 sequences assigned  
10737 (98.9%) exact matches, in which:  
10540 unique CDR3  
13 unique J



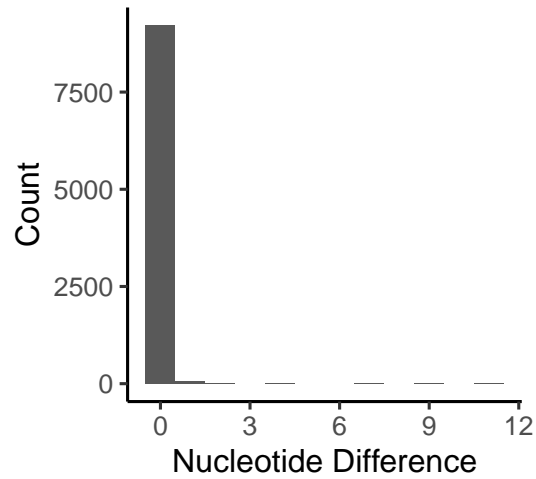
### TRBV30\*ap02

3047 sequences assigned  
2987 (98%) exact matches, in which:  
2915 unique CDR3  
13 unique J



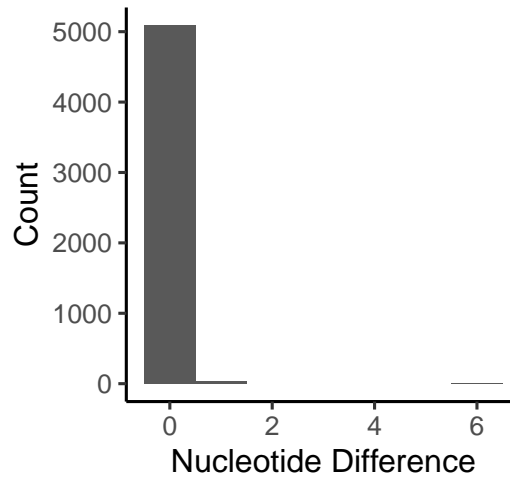
### TRBV9\*ap01

9294 sequences assigned  
9215 (99.1%) exact matches, in which:  
9109 unique CDR3  
13 unique J



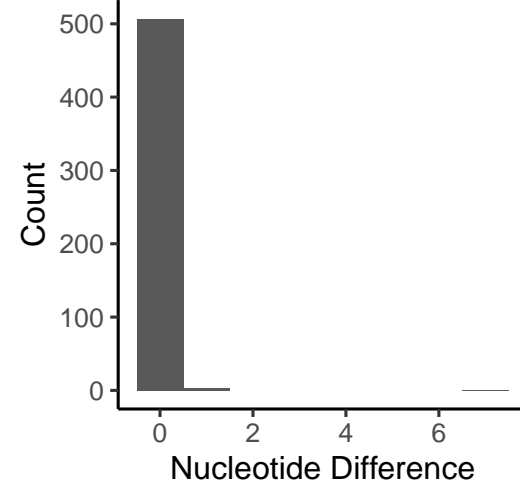
### TRBV11-2\*ap01

5132 sequences assigned  
5089 (99.2%) exact matches, in which:  
4990 unique CDR3  
13 unique J



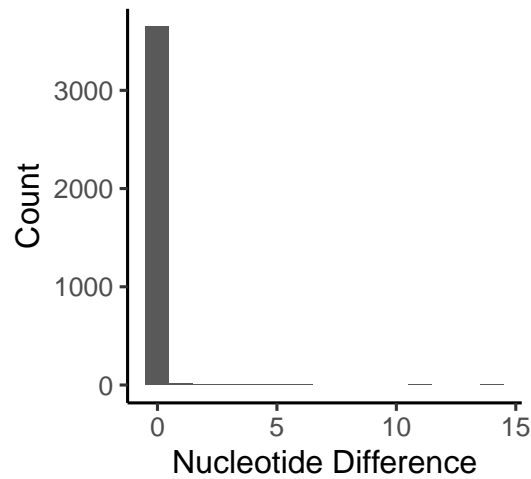
### TRBV12-2\*ap01

511 sequences assigned  
507 (99.2%) exact matches, in which:  
495 unique CDR3  
13 unique J



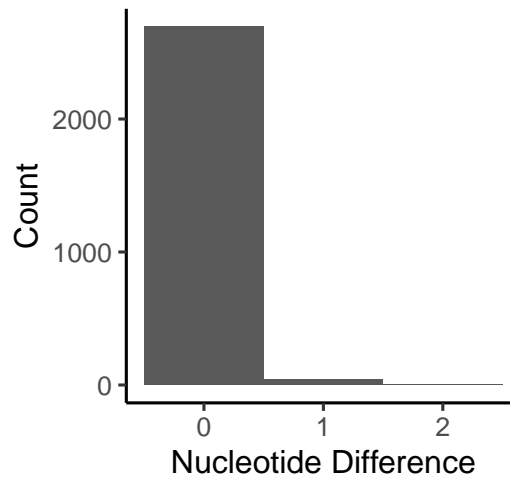
### TRBV21-1\*ap01

3689 sequences assigned  
3648 (98.9%) exact matches, in which:  
3618 unique CDR3  
13 unique J



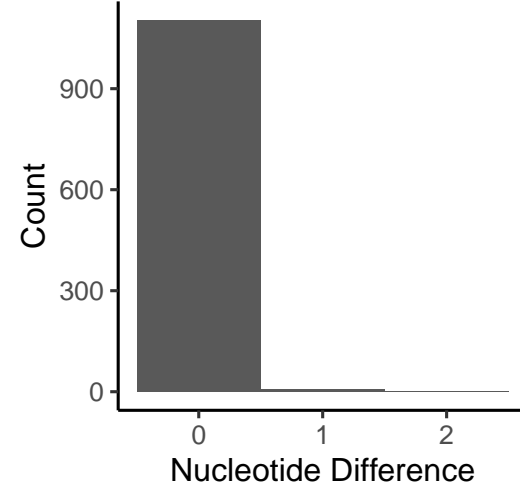
### TRBV11-3\*ap01

2735 sequences assigned  
2694 (98.5%) exact matches, in which:  
2653 unique CDR3  
13 unique J



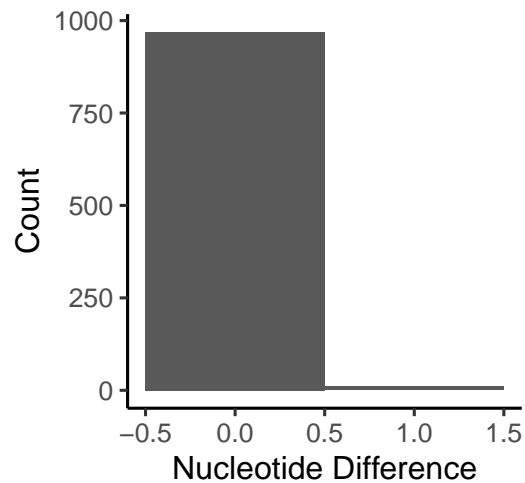
### TRBV12-5\*ap01

1113 sequences assigned  
1104 (99.2%) exact matches, in which:  
1085 unique CDR3  
13 unique J



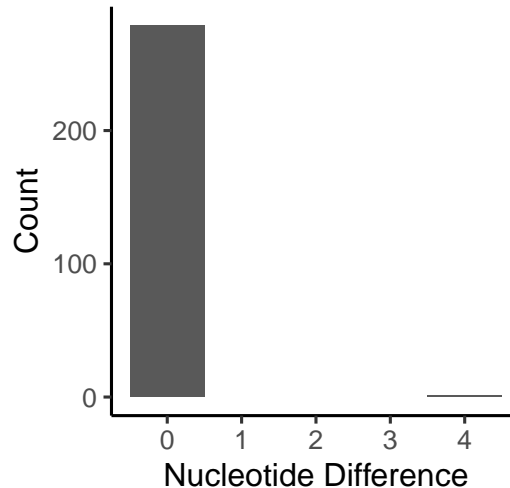
### TRBV11-1\*ap01

979 sequences assigned  
969 (99%) exact matches, in which:  
949 unique CDR3  
13 unique J



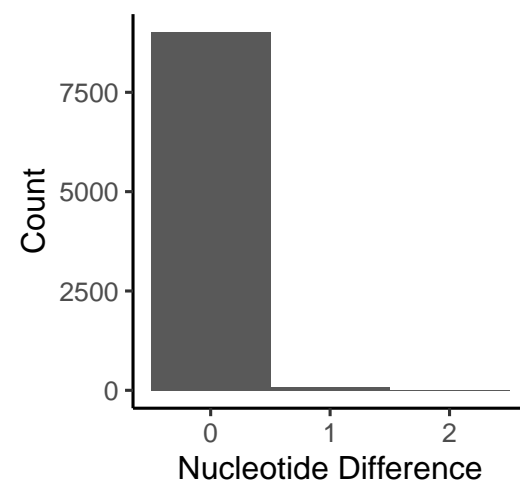
### TRBV12-1\*ap01

280 sequences assigned  
279 (99.6%) exact matches, in which:  
272 unique CDR3  
12 unique J



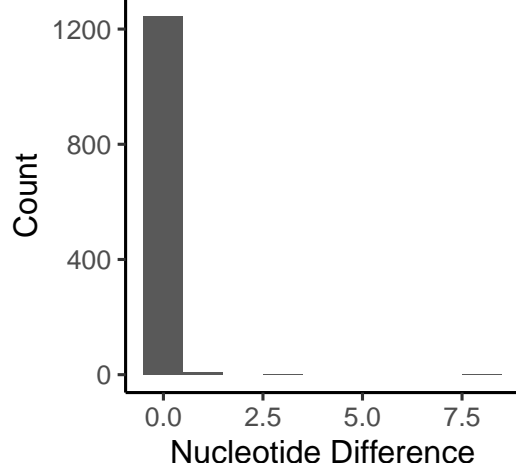
### TRBV12-34\*ap01

9097 sequences assigned  
9017 (99.1%) exact matches, in which:  
8820 unique CDR3  
13 unique J



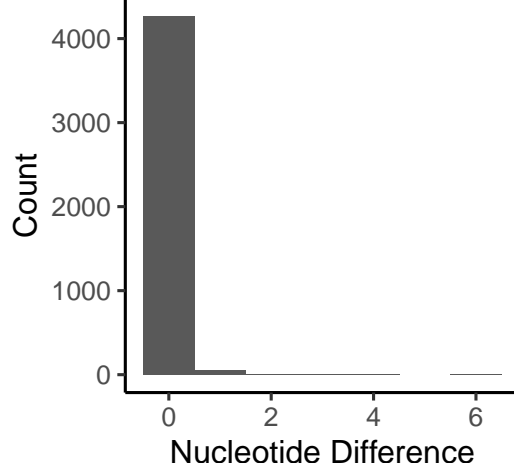
### TRBV23-1\*ap01

1253 sequences assigned  
1244 (99.3%) exact matches, in which:  
1233 unique CDR3  
13 unique J



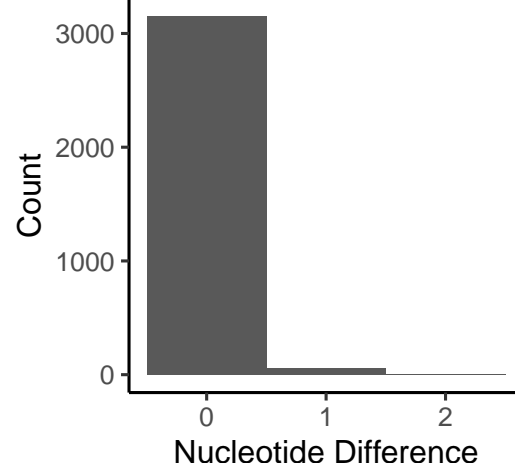
### TRBV24-1\*ap01

4319 sequences assigned  
4264 (98.7%) exact matches, in which:  
4201 unique CDR3  
13 unique J



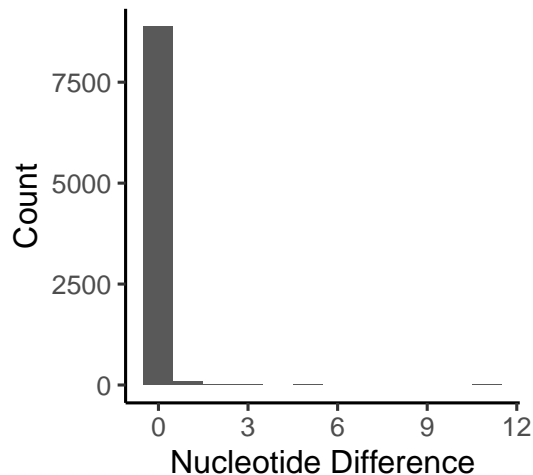
### TRBV25-1\*ap01

3213 sequences assigned  
3150 (98%) exact matches, in which:  
3061 unique CDR3  
13 unique J



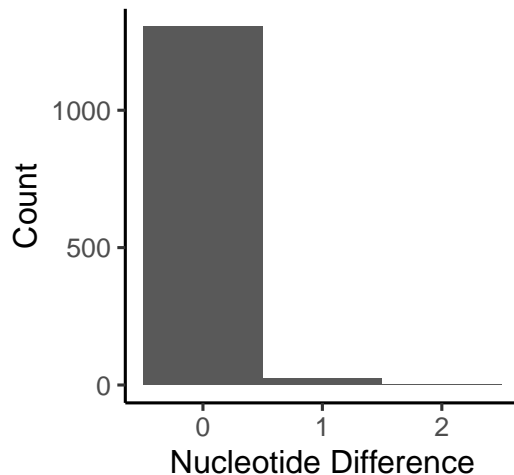
### TRBV3-12\*ap01

8980 sequences assigned  
8874 (98.8%) exact matches, in which:  
8683 unique CDR3  
13 unique J



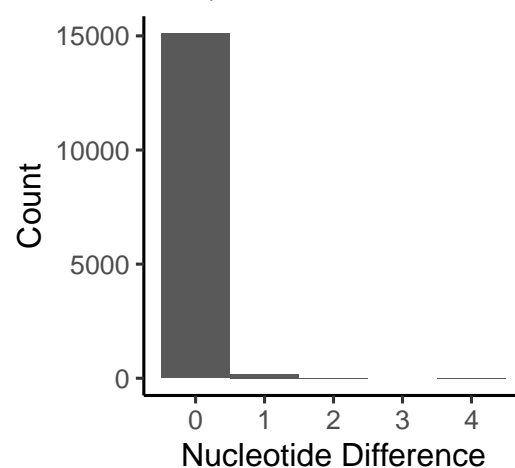
### TRBV4-2\*ap01

1327 sequences assigned  
1304 (98.3%) exact matches, in which:  
1263 unique CDR3  
13 unique J



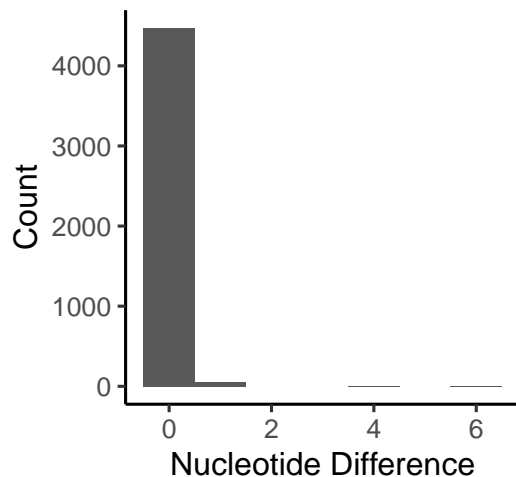
### TRBV5-1\*ap01

15305 sequences assigned  
15106 (98.7%) exact matches, in which:  
14630 unique CDR3  
13 unique J



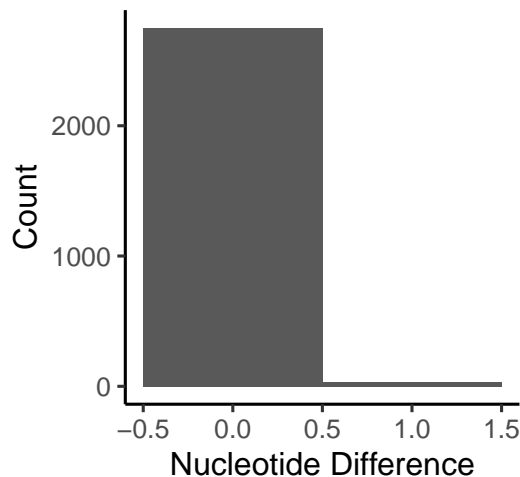
### TRBV4-1\*ap01

4528 sequences assigned  
4472 (98.8%) exact matches, in which:  
4351 unique CDR3  
13 unique J



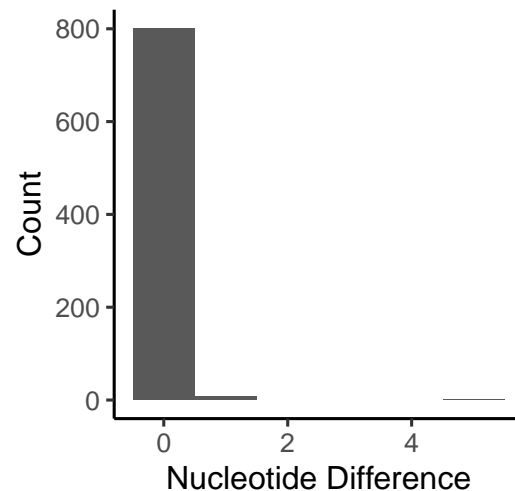
### TRBV4-3\*ap01

2784 sequences assigned  
2750 (98.8%) exact matches, in which:  
2679 unique CDR3  
13 unique J



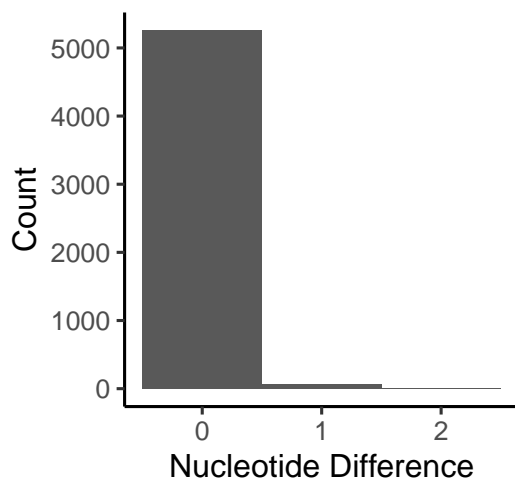
### TRBV5-3\*ap01

811 sequences assigned  
801 (98.8%) exact matches, in which:  
781 unique CDR3  
13 unique J



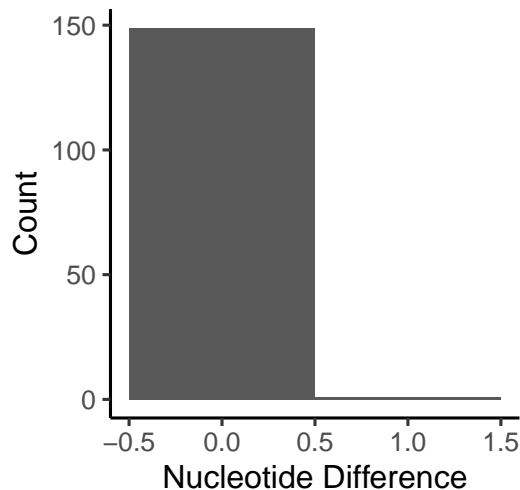
### TRBV5-4\*ap01

5318 sequences assigned  
5257 (98.9%) exact matches, in which:  
5112 unique CDR3  
13 unique J



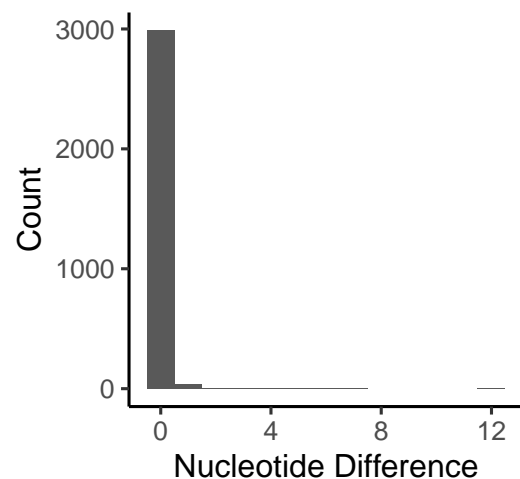
### TRBV5-7\*ap01

150 sequences assigned  
149 (99.3%) exact matches, in which:  
143 unique CDR3  
12 unique J



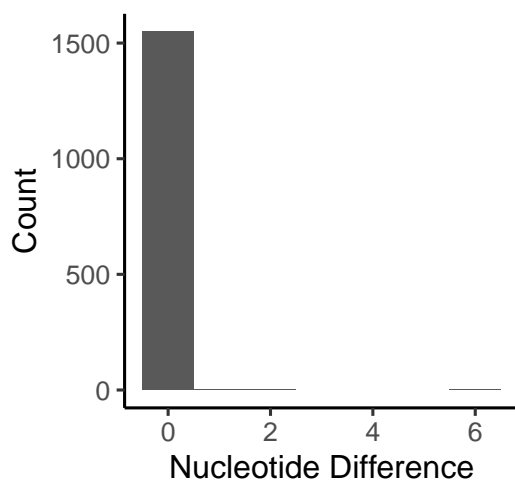
### TRBV6-4\*ap01

3045 sequences assigned  
2988 (98.1%) exact matches, in which:  
2947 unique CDR3  
13 unique J



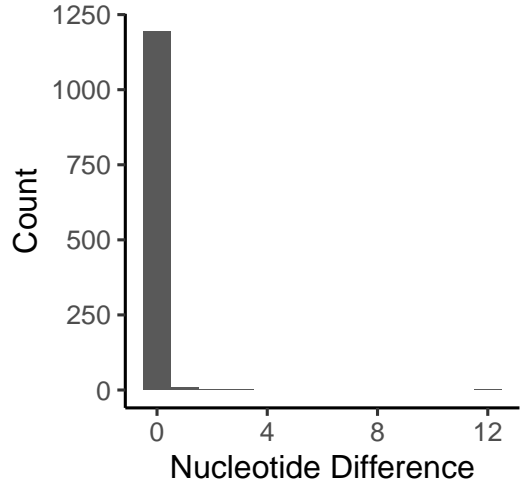
### TRBV5-5\*ap01

1554 sequences assigned  
1549 (99.7%) exact matches, in which:  
1530 unique CDR3  
13 unique J



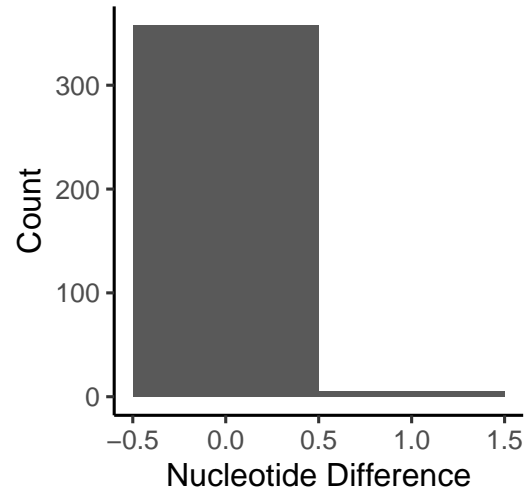
### TRBV5-8\*ap01

1203 sequences assigned  
1193 (99.2%) exact matches, in which:  
1169 unique CDR3  
13 unique J



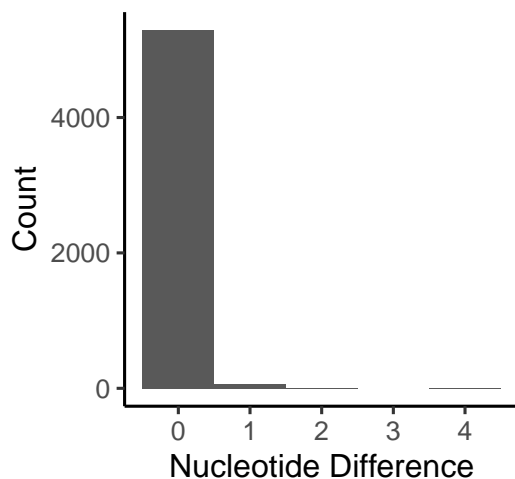
### TRBV6-7\*ap01

363 sequences assigned  
358 (98.6%) exact matches, in which:  
351 unique CDR3  
13 unique J



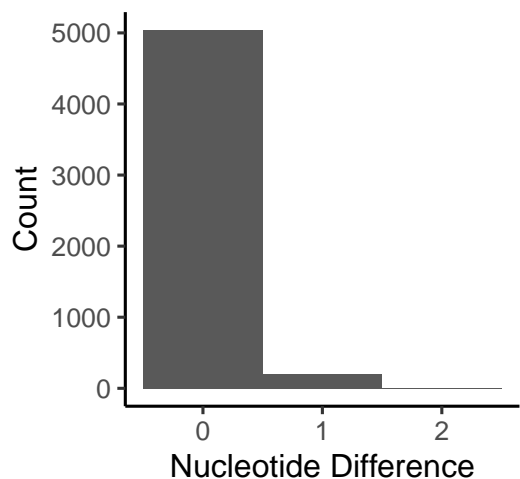
### TRBV5-6\*ap01

5360 sequences assigned  
5292 (98.7%) exact matches, in which:  
5085 unique CDR3  
13 unique J



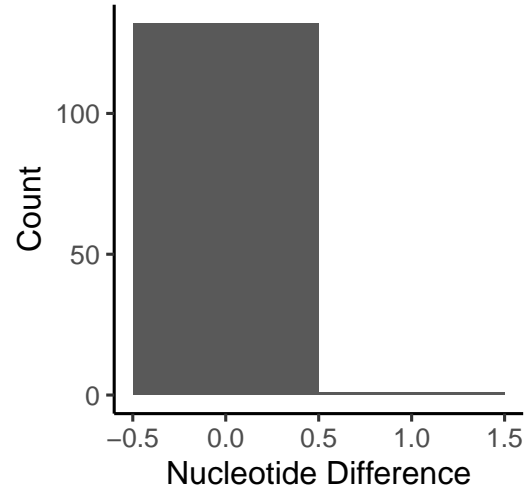
### TRBV6-1\*ap01

5239 sequences assigned  
5040 (96.2%) exact matches, in which:  
4855 unique CDR3  
13 unique J



### TRBV6-8\*ap01

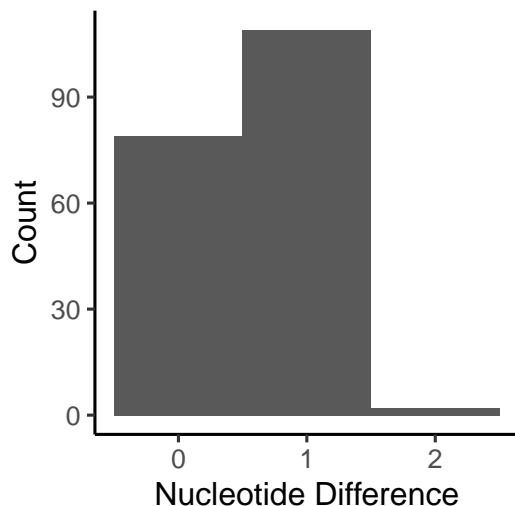
133 sequences assigned  
132 (99.2%) exact matches, in which:  
126 unique CDR3  
13 unique J





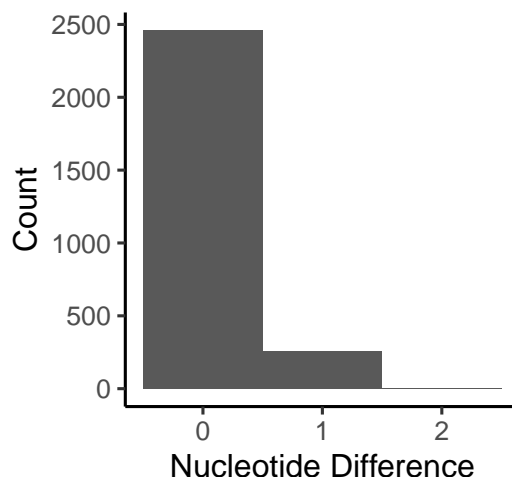
### TRBV6–9\*ap01

190 sequences assigned  
79 (41.6%) exact matches, in which:  
79 unique CDR3  
13 unique J



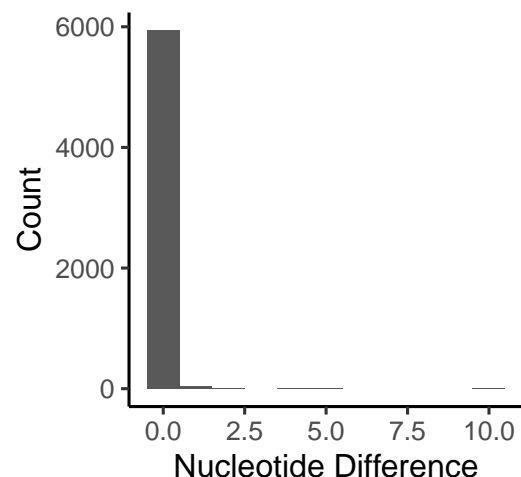
### TRBV6–56\*ap02

2715 sequences assigned  
2459 (90.6%) exact matches, in which:  
2391 unique CDR3  
13 unique J



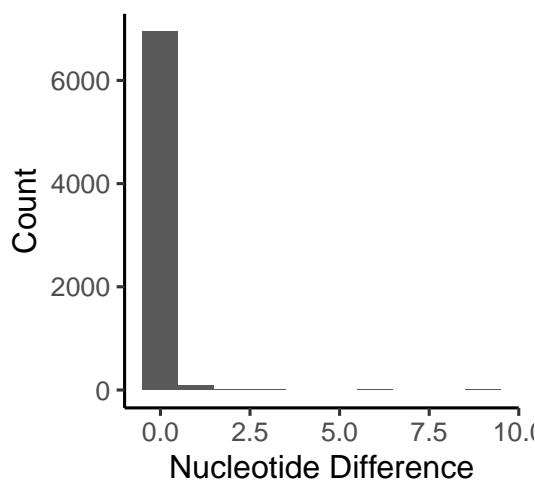
### TRBV7–3\*ap01

5984 sequences assigned  
5940 (99.3%) exact matches, in which:  
5825 unique CDR3  
13 unique J



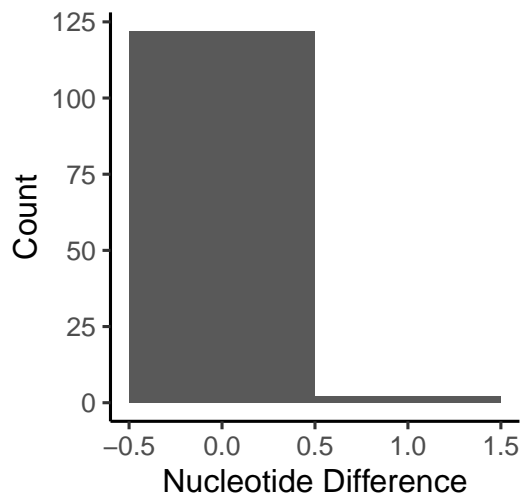
### TRBV6–23\*ap01

7043 sequences assigned  
6944 (98.6%) exact matches, in which:  
6663 unique CDR3  
13 unique J



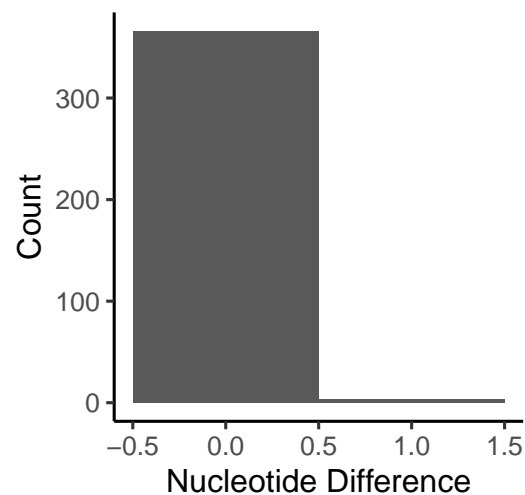
### TRBV7–1\*ap01\_G291C\_

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



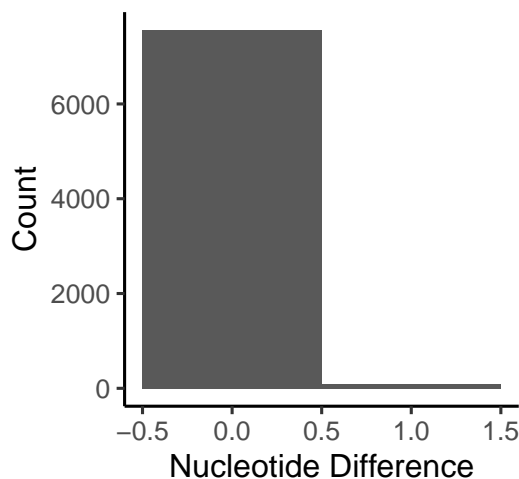
### TRBV7–4\*ap01

369 sequences assigned  
366 (99.2%) exact matches, in which:  
355 unique CDR3  
13 unique J



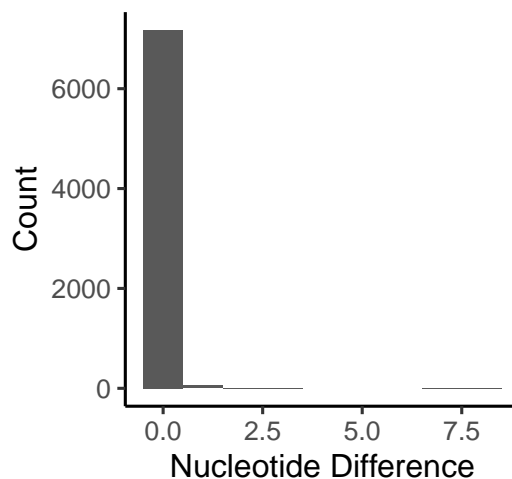
### TRBV6–56\*ap01

7655 sequences assigned  
7559 (98.7%) exact matches, in which:  
7274 unique CDR3  
13 unique J



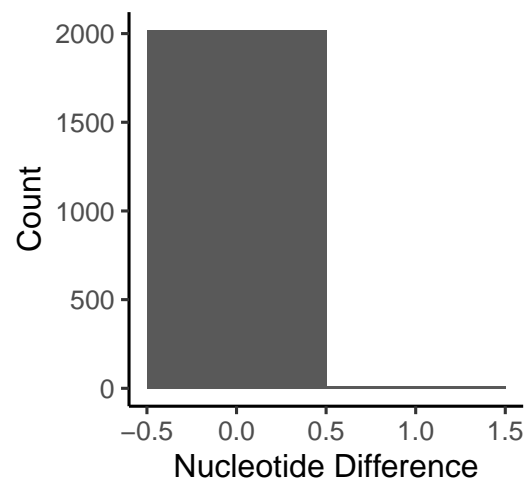
### TRBV7–2\*ap01

7232 sequences assigned  
7174 (99.2%) exact matches, in which:  
7041 unique CDR3  
13 unique J



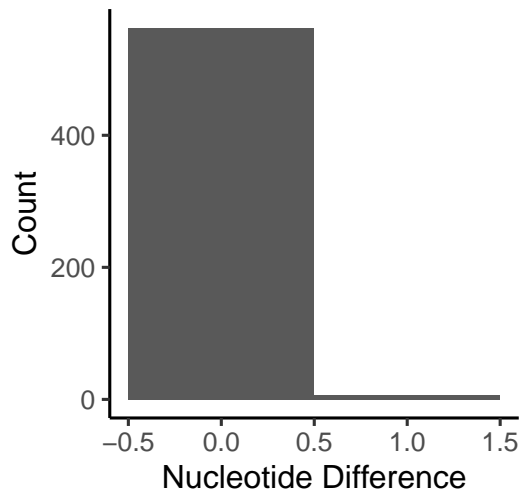
### TRBV7–6\*ap01

2034 sequences assigned  
2020 (99.3%) exact matches, in which:  
1971 unique CDR3  
13 unique J



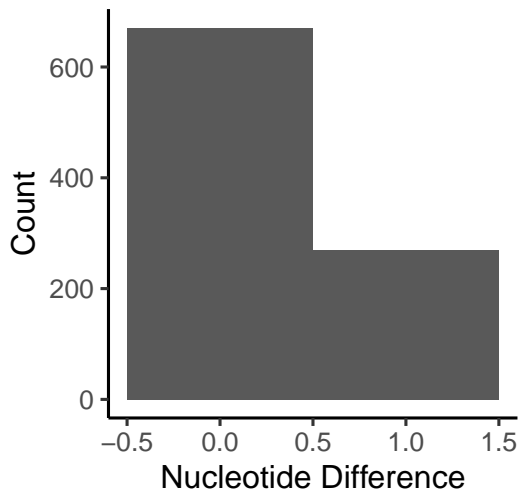
### TRBV7-7\*ap01

570 sequences assigned  
563 (98.8%) exact matches, in which:  
551 unique CDR3  
13 unique J



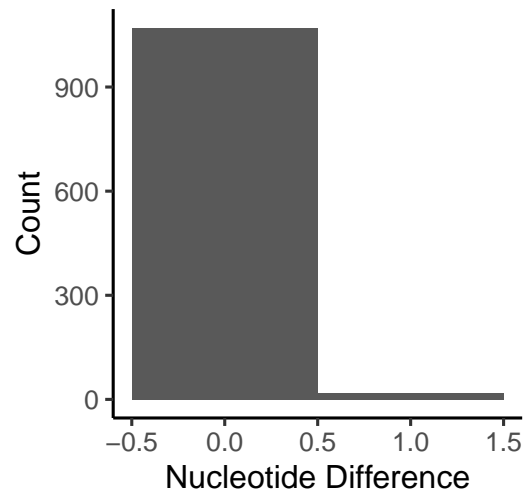
### TRBV7-8\*ap03

941 sequences assigned  
671 (71.3%) exact matches, in which:  
660 unique CDR3  
13 unique J



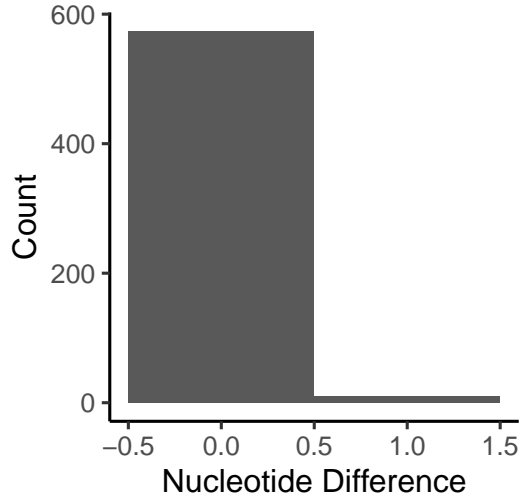
### TRBV29-1\*ap02

1090 sequences assigned  
1071 (98.3%) exact matches, in which:  
1044 unique CDR3  
13 unique J



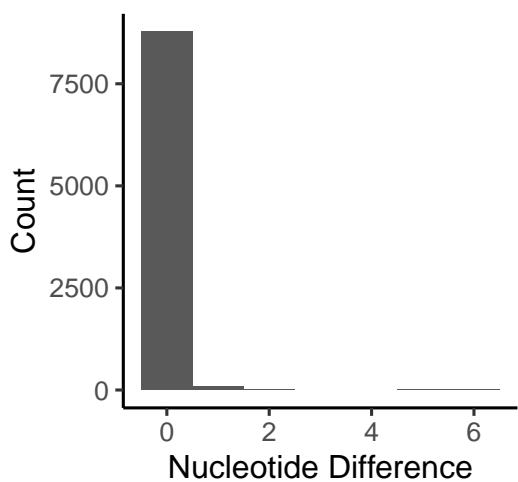
### TRBV7-7\*ap01\_C315T

584 sequences assigned  
574 (98.3%) exact matches, in which:  
560 unique CDR3  
13 unique J



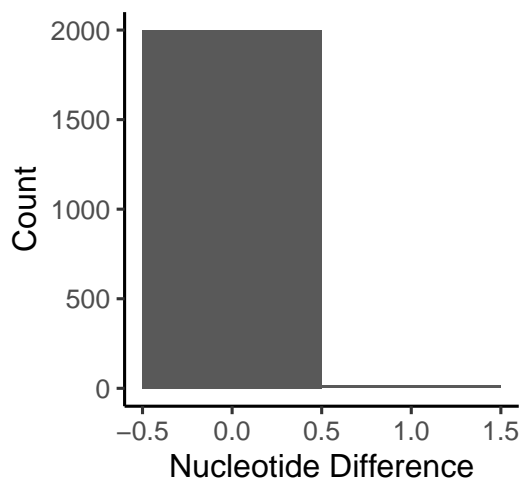
### TRBV7-9\*ap01

8863 sequences assigned  
8775 (99%) exact matches, in which:  
8575 unique CDR3  
13 unique J



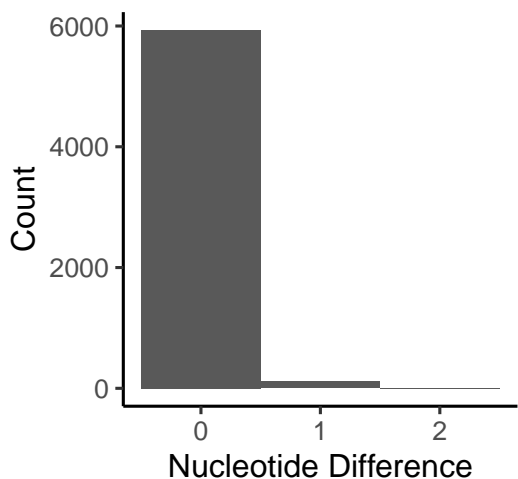
### TRBV7-8\*ap01

2015 sequences assigned  
2000 (99.3%) exact matches, in which:  
1945 unique CDR3  
13 unique J

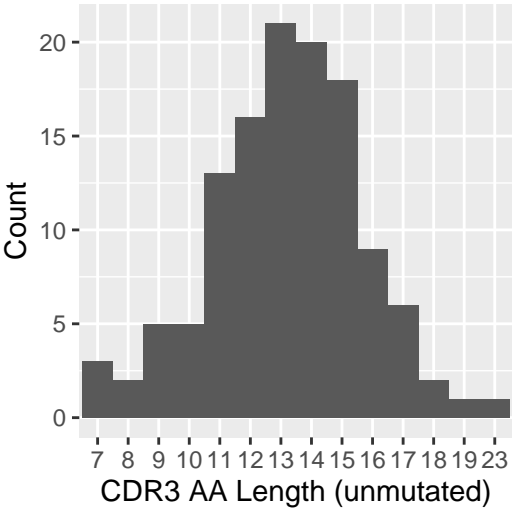


### TRBV29-1\*ap01

6048 sequences assigned  
5933 (98.1%) exact matches, in which:  
5769 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

