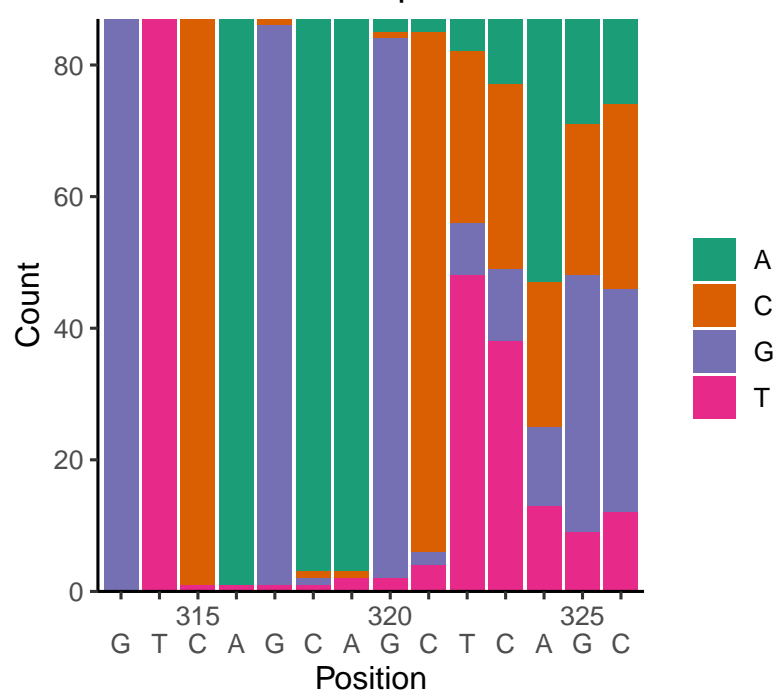
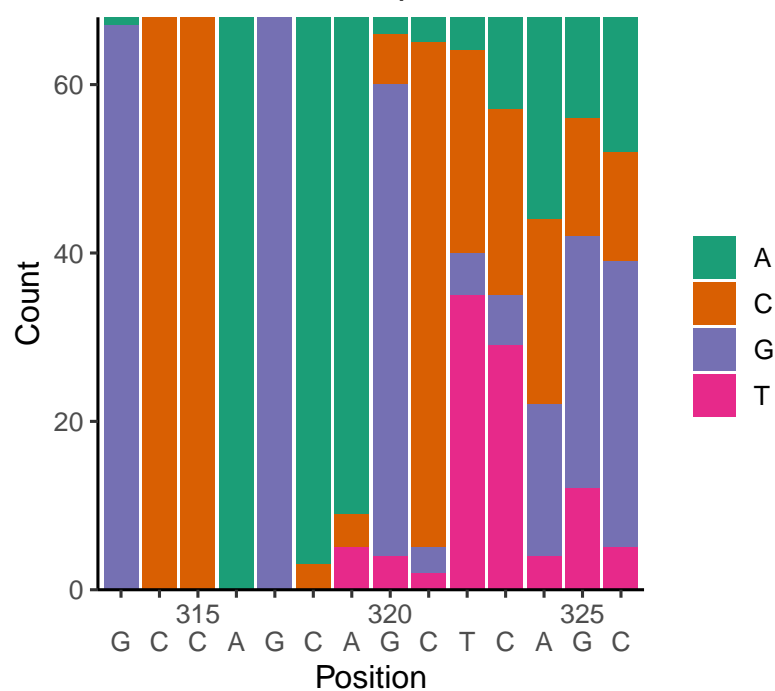


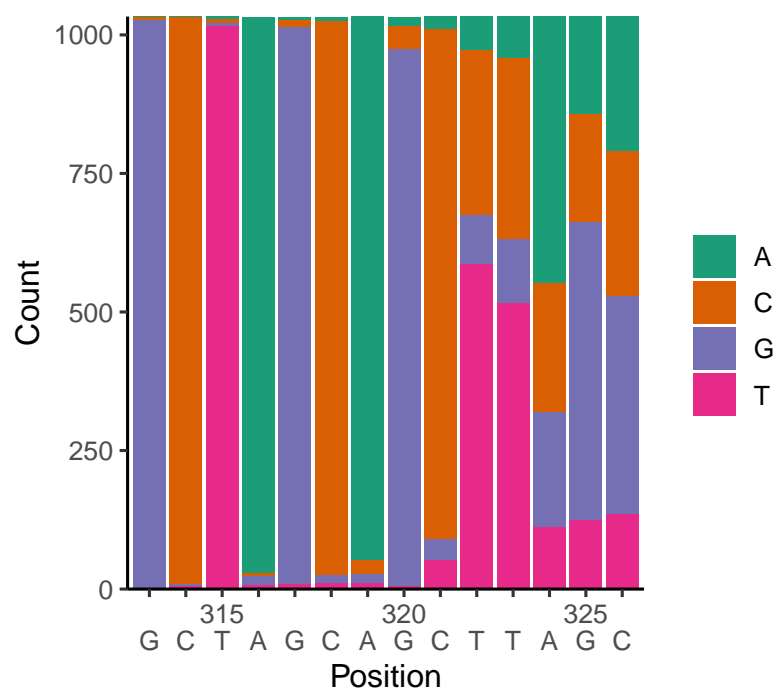
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-1\*ap01\_G291C\_T296C



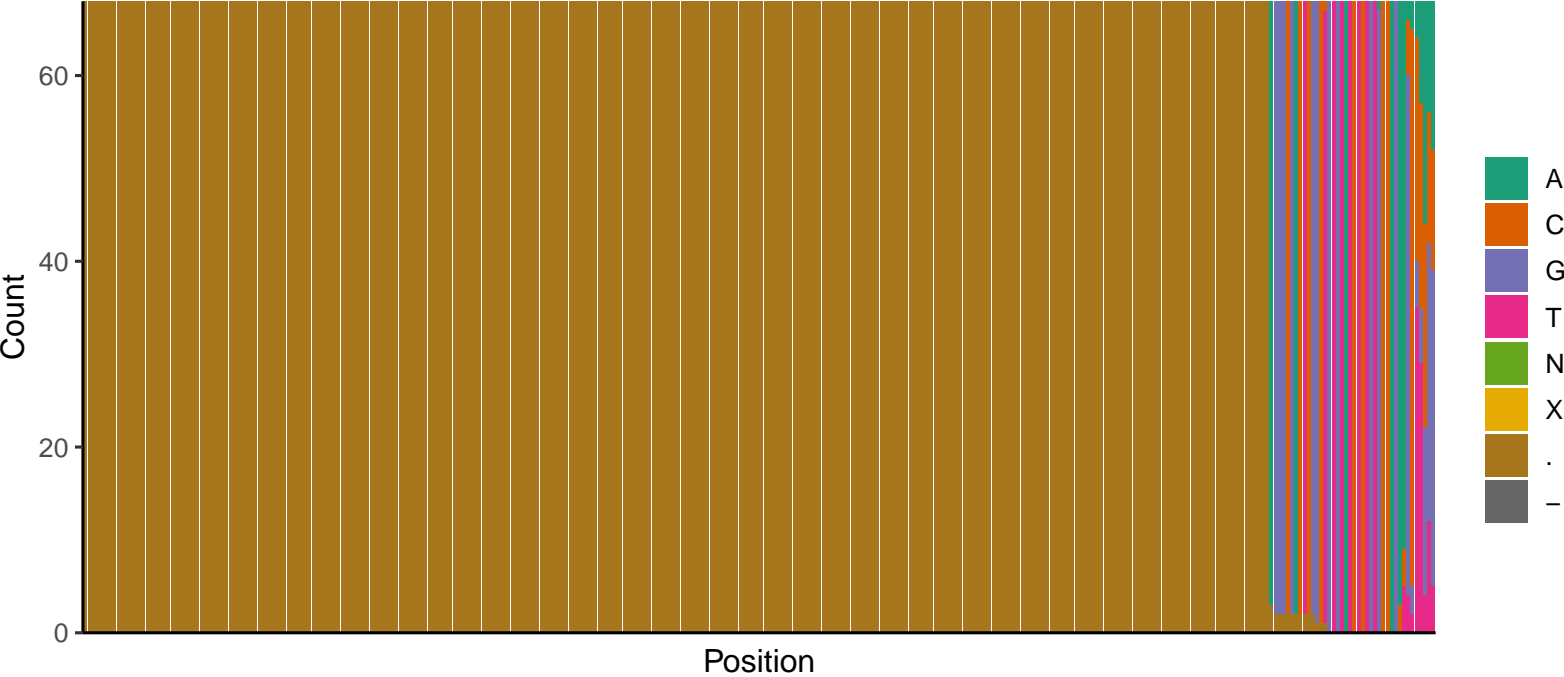
Gene TRBV7-7\*ap01\_C315T



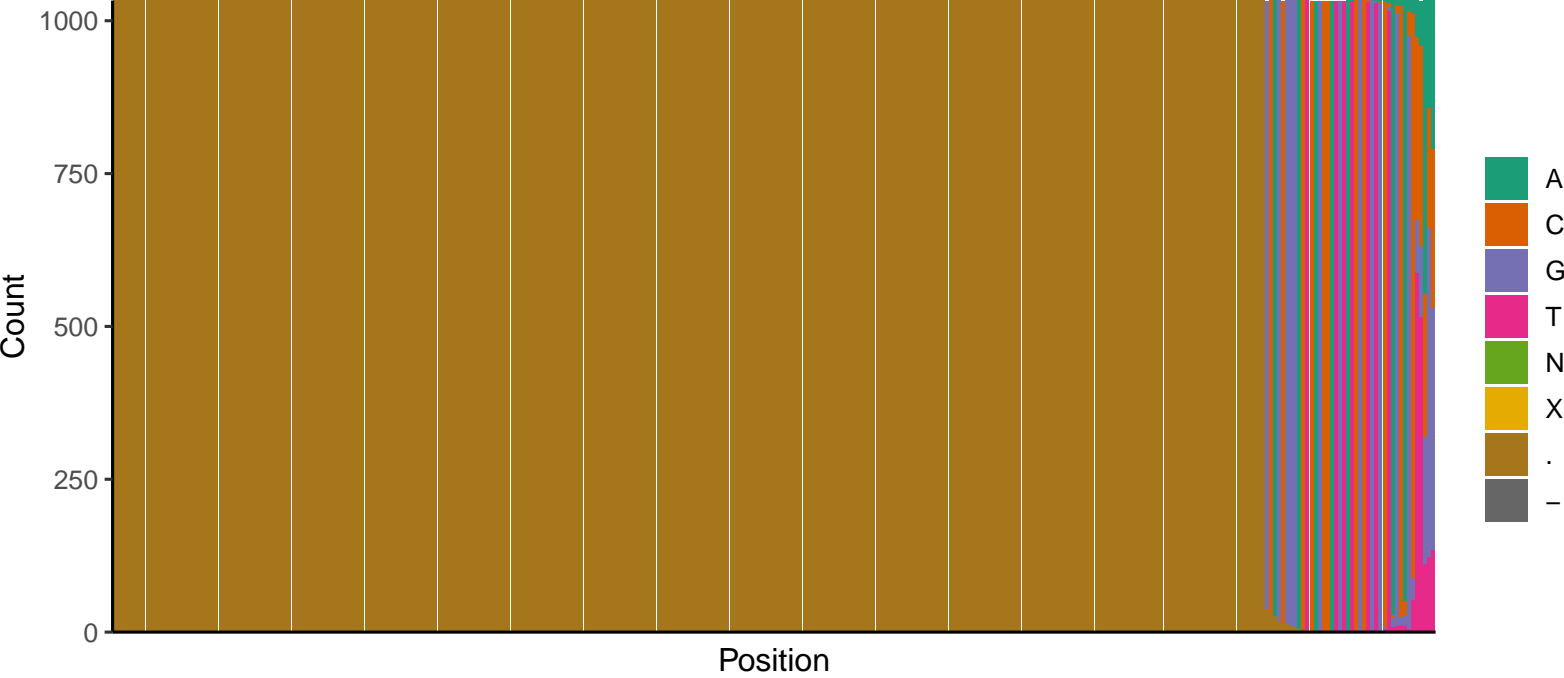
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



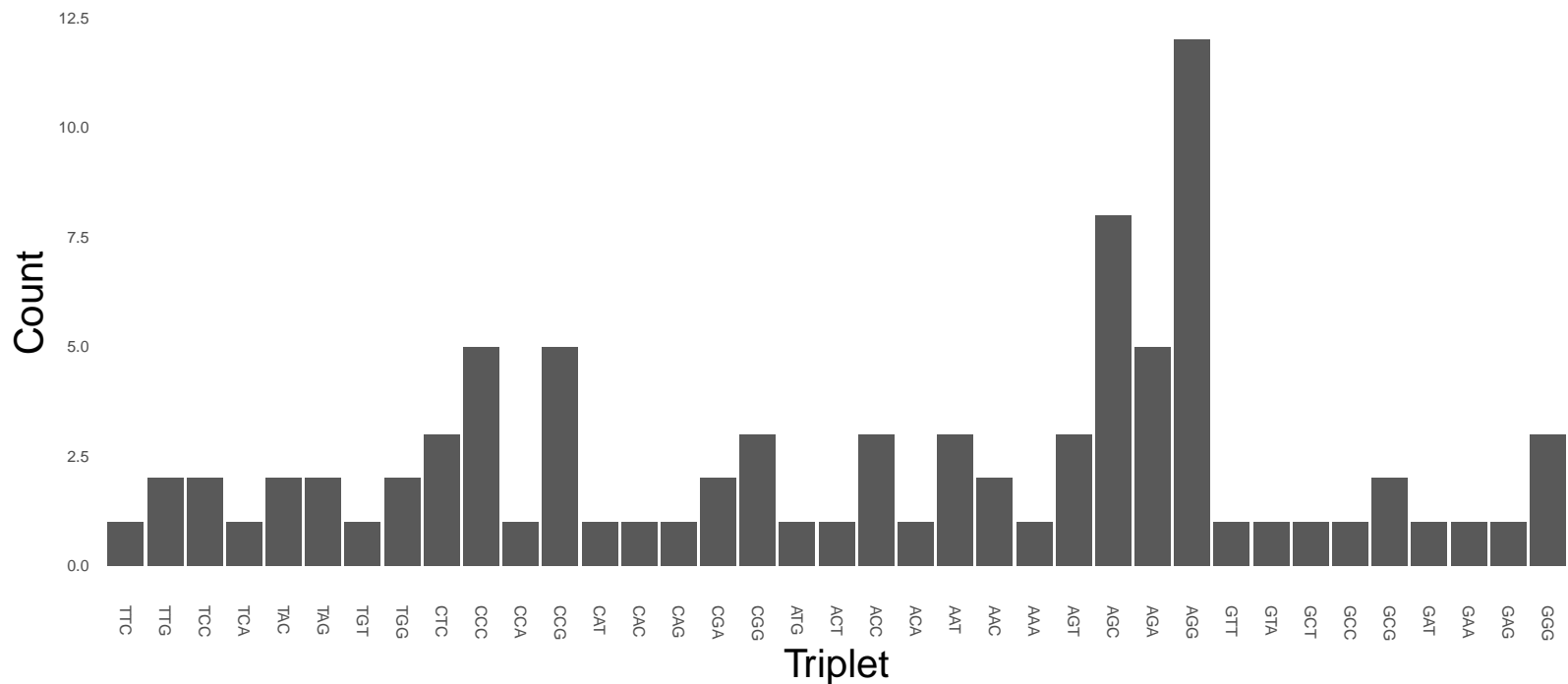
Gene TRBV7-1\*ap01\_G291C\_T296C



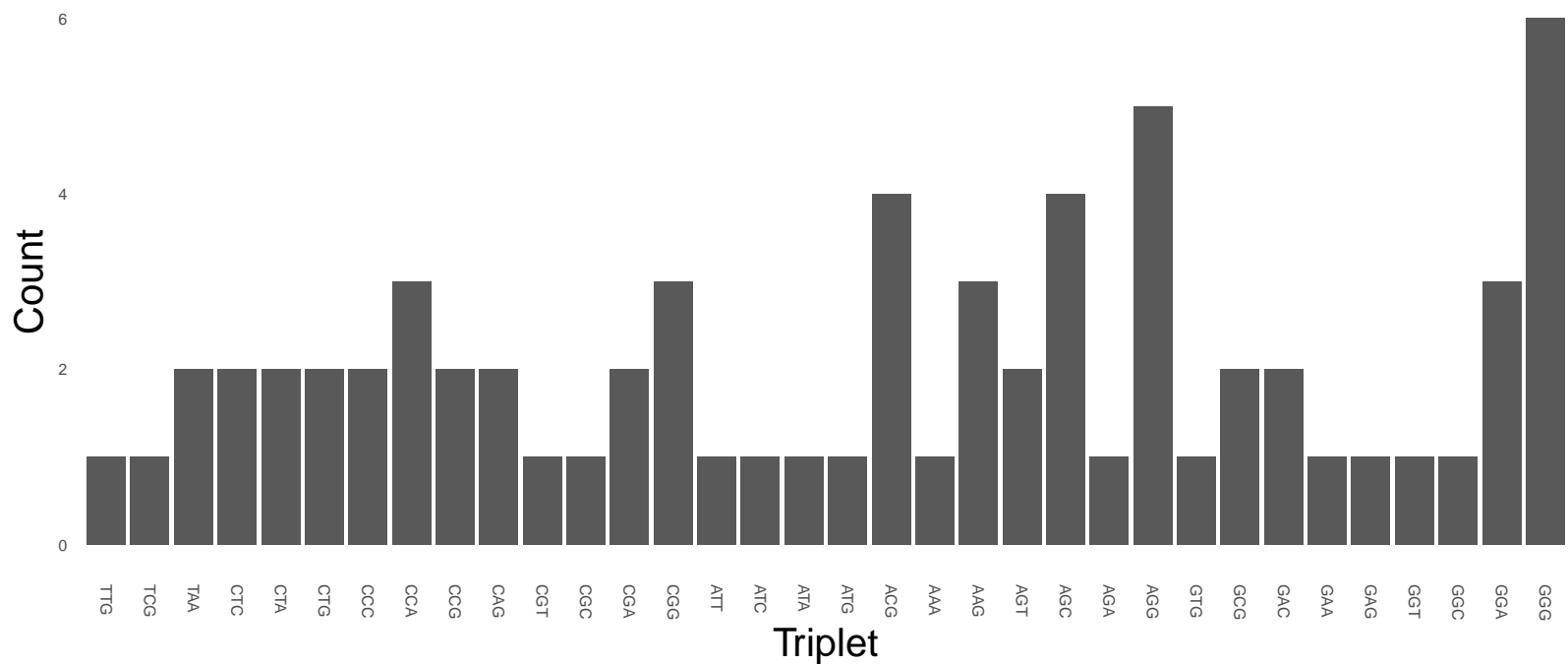
Gene TRBV7-7\*ap01\_C315T



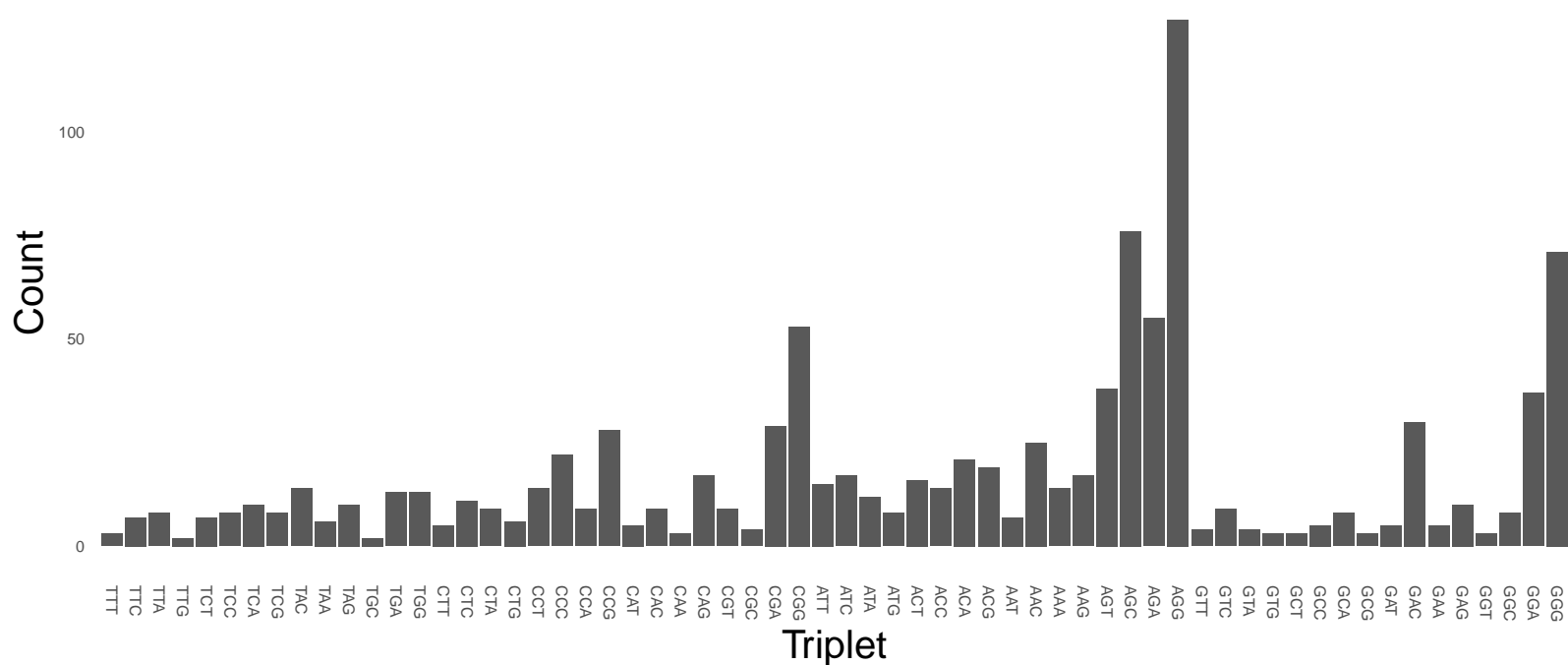
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

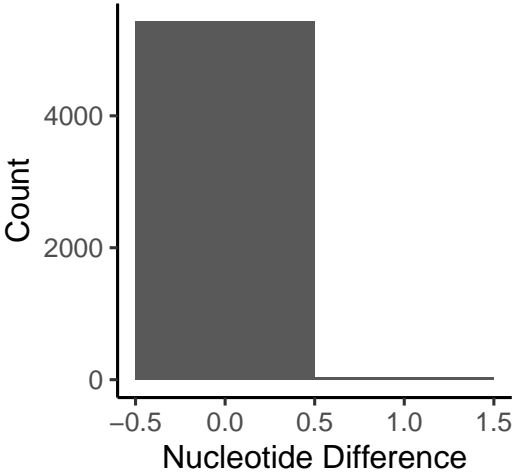


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



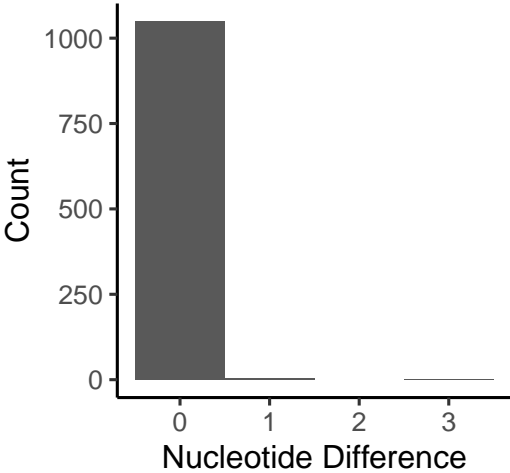
TRBV20-1\*ap01

5462 sequences assigned  
5431 (99.4%) exact matches, in which:  
5382 unique CDR3  
13 unique J



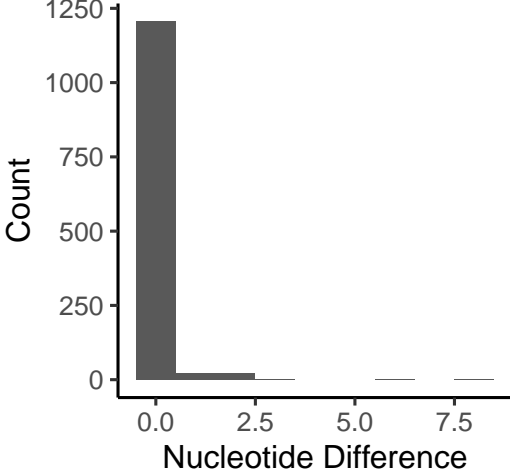
TRBV10-2\*ap01

1055 sequences assigned  
1049 (99.4%) exact matches, in which:  
1025 unique CDR3  
13 unique J



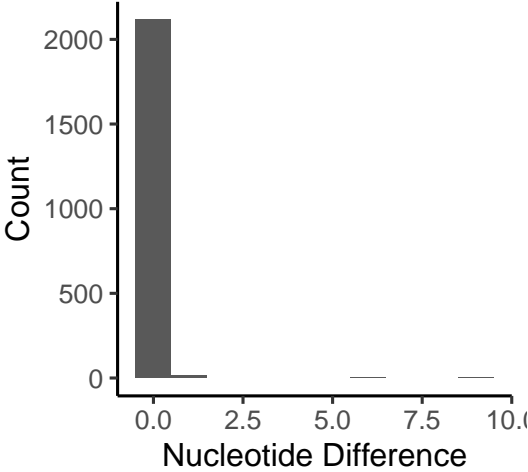
TRBV13\*ap01

1256 sequences assigned  
1206 (96%) exact matches, in which:  
1177 unique CDR3  
13 unique J



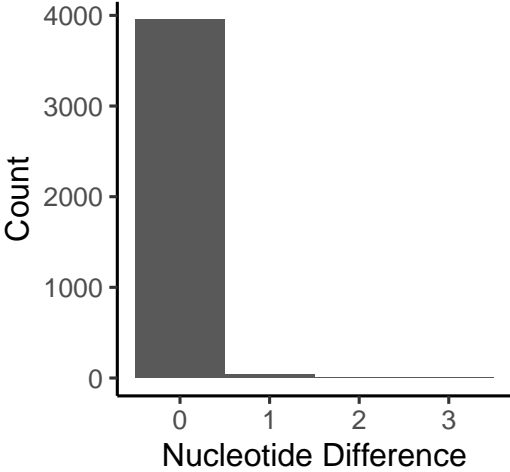
TRBV10-1\*ap01

2131 sequences assigned  
2116 (99.3%) exact matches, in which:  
2076 unique CDR3  
13 unique J



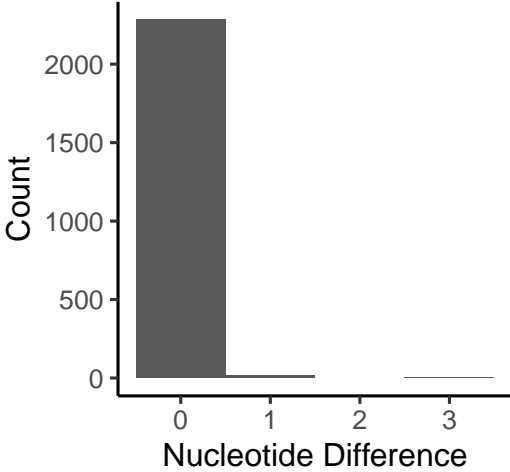
TRBV10-3\*ap01

3994 sequences assigned  
3952 (98.9%) exact matches, in which:  
3883 unique CDR3  
14 unique J



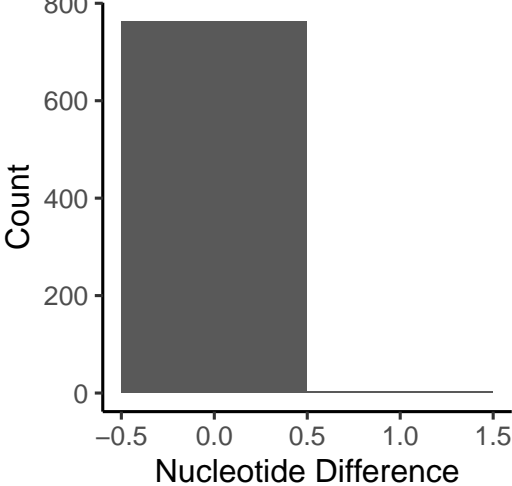
TRBV14\*ap01

2298 sequences assigned  
2283 (99.3%) exact matches, in which:  
2252 unique CDR3  
13 unique J



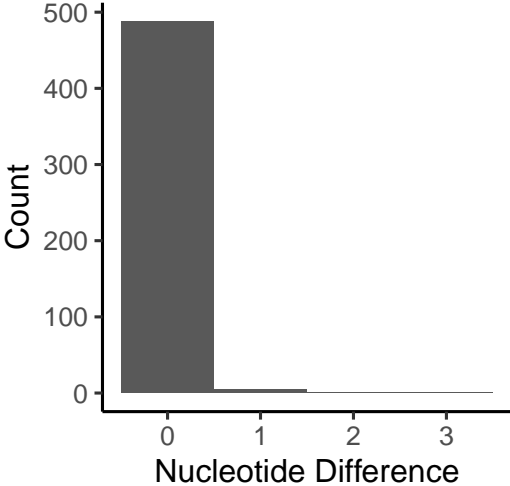
TRBV20-1\*ap02

767 sequences assigned  
763 (99.5%) exact matches, in which:  
757 unique CDR3  
13 unique J



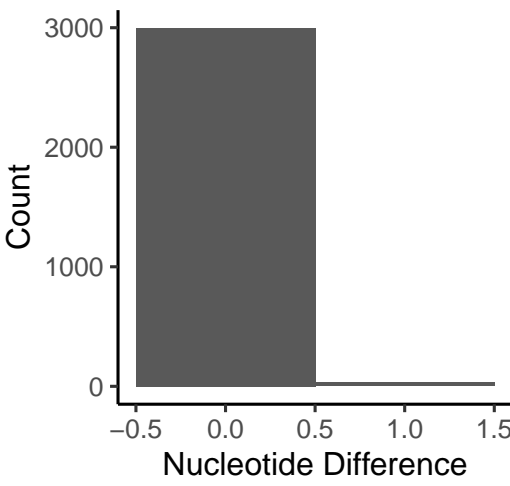
TRBV1\*ap01

495 sequences assigned  
488 (98.6%) exact matches, in which:  
474 unique CDR3  
13 unique J



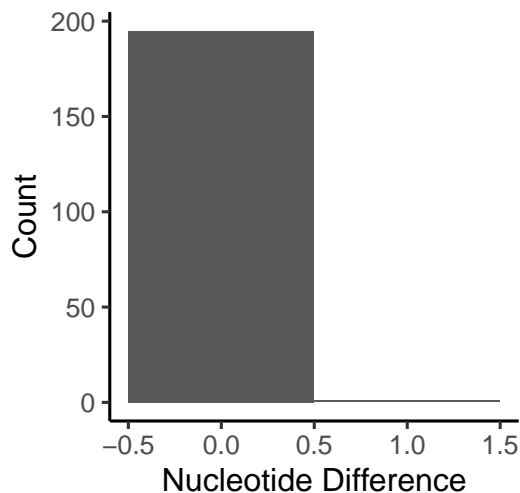
TRBV15\*ap02

3028 sequences assigned  
2997 (99%) exact matches, in which:  
2936 unique CDR3  
13 unique J



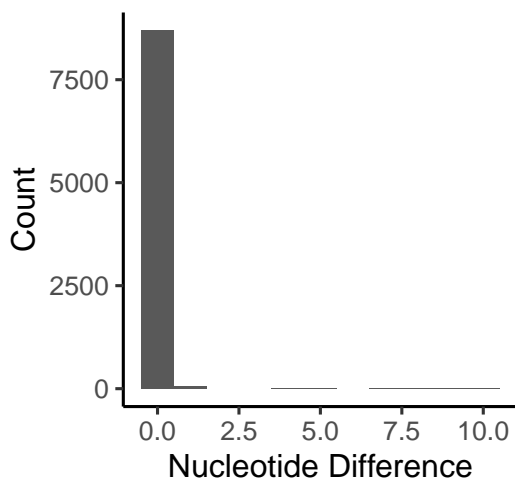
### TRBV16\*ap01

196 sequences assigned  
195 (99.5%) exact matches, in which:  
193 unique CDR3  
13 unique J



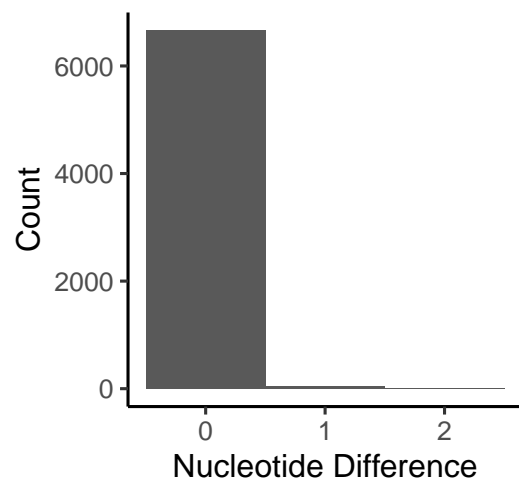
### TRBV19\*ap01

8774 sequences assigned  
8696 (99.1%) exact matches, in which:  
8639 unique CDR3  
13 unique J



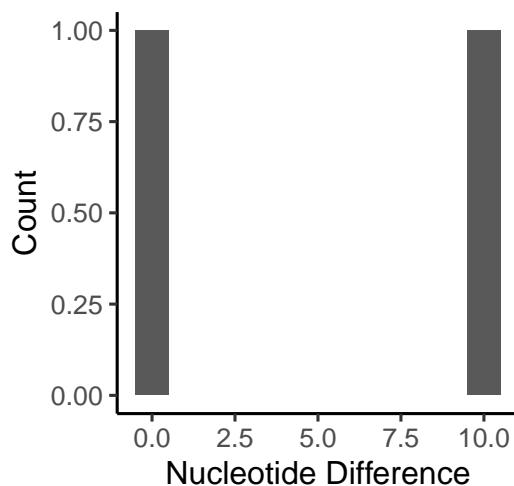
### TRBV28\*ap01

6718 sequences assigned  
6661 (99.2%) exact matches, in which:  
6587 unique CDR3  
13 unique J



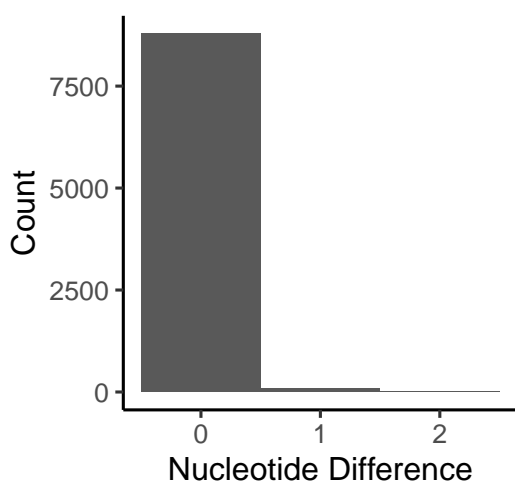
### TRBV17\*ap01

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



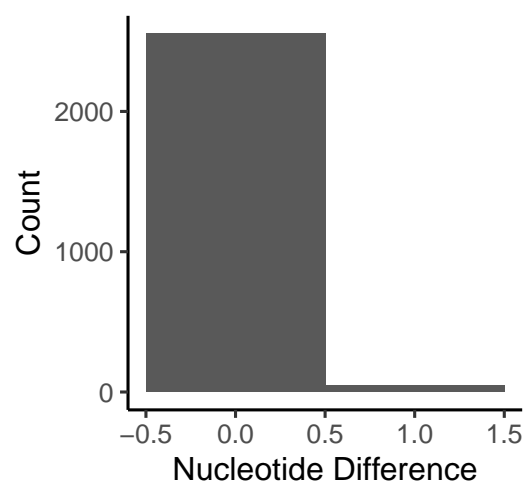
### TRBV2\*ap01

8867 sequences assigned  
8784 (99.1%) exact matches, in which:  
8623 unique CDR3  
13 unique J



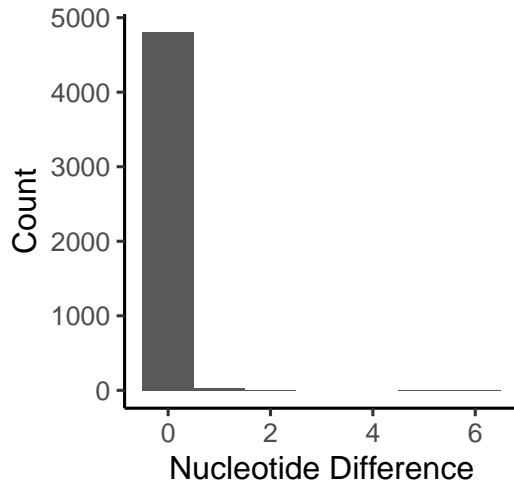
### TRBV30\*ap01

2598 sequences assigned  
2554 (98.3%) exact matches, in which:  
2465 unique CDR3  
13 unique J



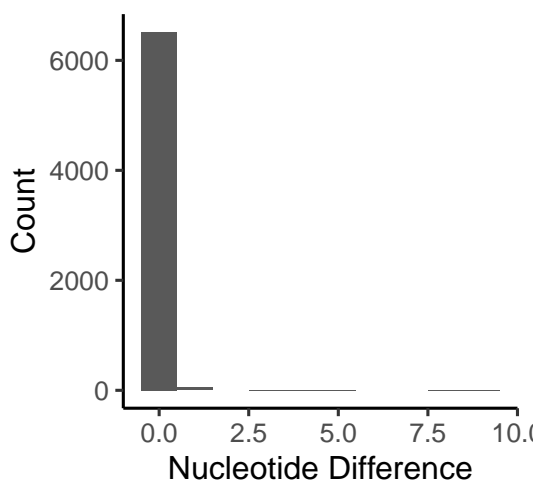
### TRBV18\*ap01

4844 sequences assigned  
4807 (99.2%) exact matches, in which:  
4758 unique CDR3  
13 unique J



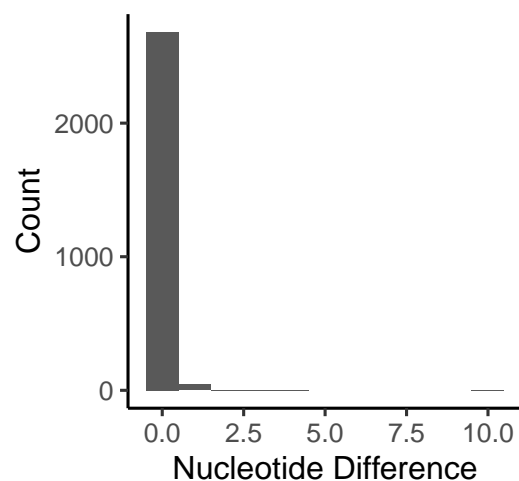
### TRBV27\*ap01

6573 sequences assigned  
6515 (99.1%) exact matches, in which:  
6403 unique CDR3  
13 unique J



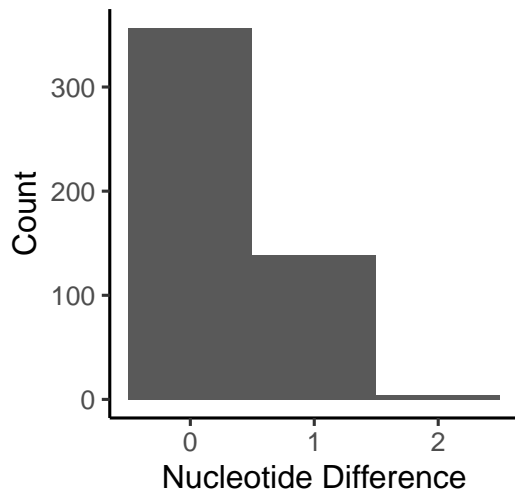
### TRBV30\*ap02

2731 sequences assigned  
2682 (98.2%) exact matches, in which:  
2598 unique CDR3  
13 unique J



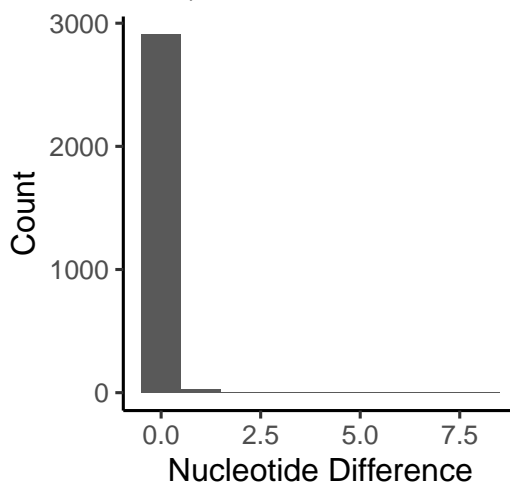
### TRBV30\*ap03

500 sequences assigned  
357 (71.4%) exact matches, in which:  
337 unique CDR3  
13 unique J



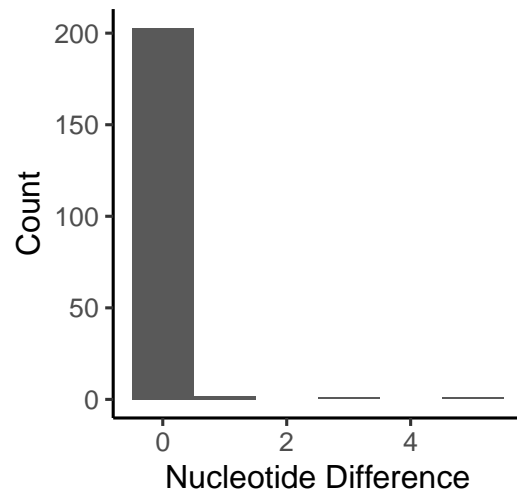
### TRBV21-1\*ap01

2946 sequences assigned  
2909 (98.7%) exact matches, in which:  
2882 unique CDR3  
13 unique J



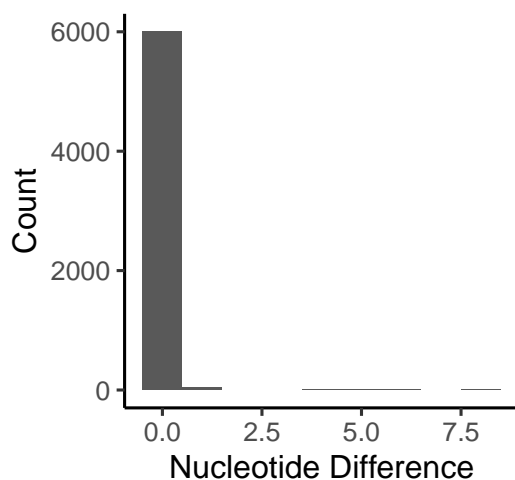
### TRBV12-1\*ap01

207 sequences assigned  
203 (98.1%) exact matches, in which:  
202 unique CDR3  
13 unique J



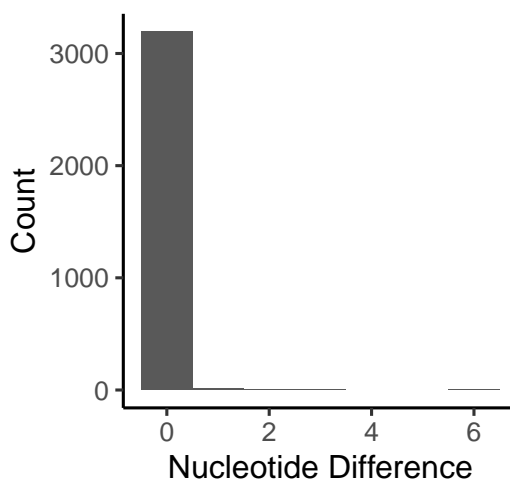
### TRBV9\*ap01

6048 sequences assigned  
6001 (99.2%) exact matches, in which:  
5942 unique CDR3  
13 unique J



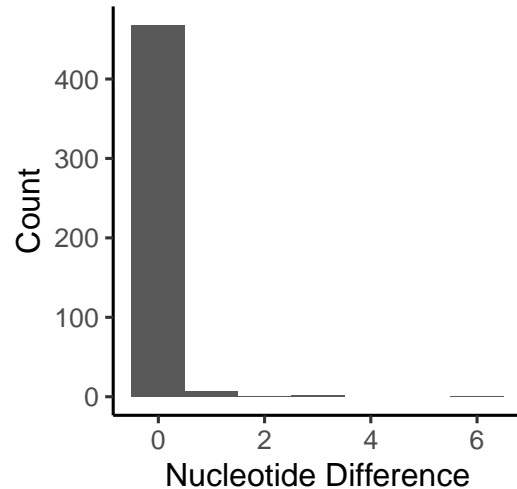
### TRBV11-2\*ap01

3215 sequences assigned  
3194 (99.3%) exact matches, in which:  
3172 unique CDR3  
13 unique J



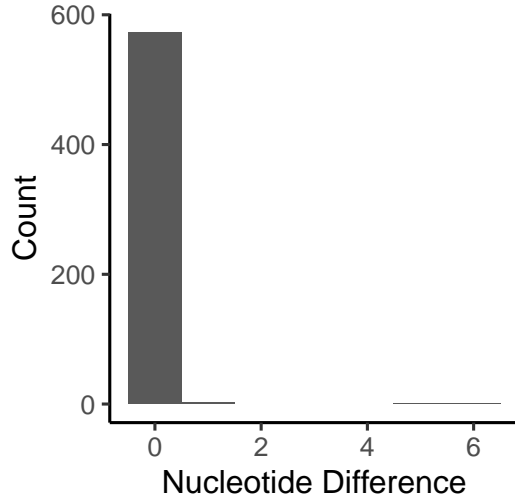
### TRBV12-2\*ap01

479 sequences assigned  
468 (97.7%) exact matches, in which:  
462 unique CDR3  
13 unique J



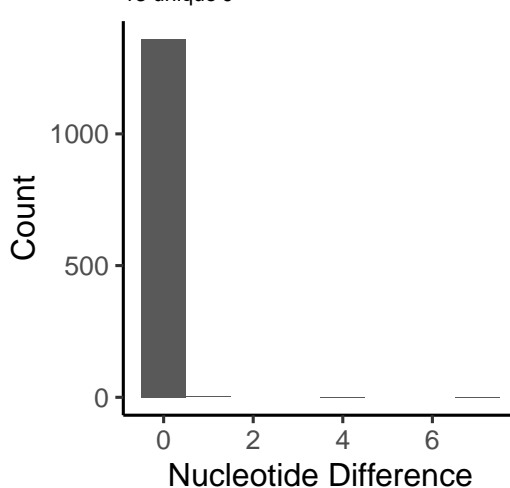
### TRBV11-1\*ap01

578 sequences assigned  
573 (99.1%) exact matches, in which:  
569 unique CDR3  
13 unique J



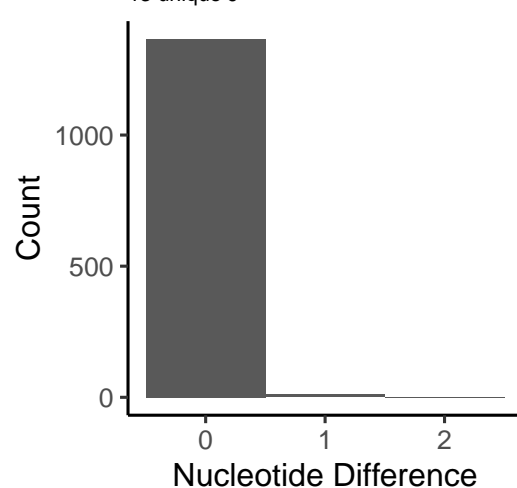
### TRBV11-3\*ap01

1365 sequences assigned  
1360 (99.6%) exact matches, in which:  
1351 unique CDR3  
13 unique J



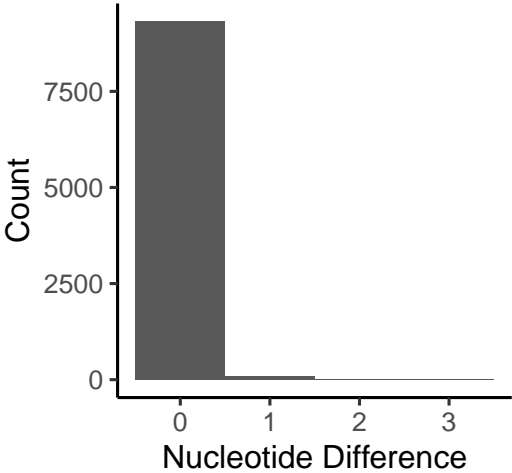
### TRBV12-5\*ap01

1378 sequences assigned  
1366 (99.1%) exact matches, in which:  
1341 unique CDR3  
13 unique J



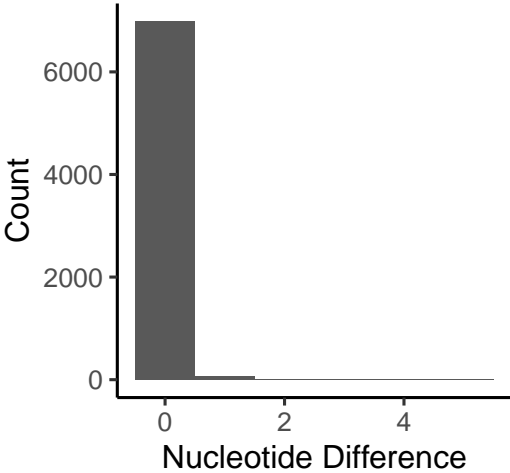
TRBV12-34\*ap01

9406 sequences assigned  
9320 (99.1%) exact matches, in which:  
9162 unique CDR3  
13 unique J



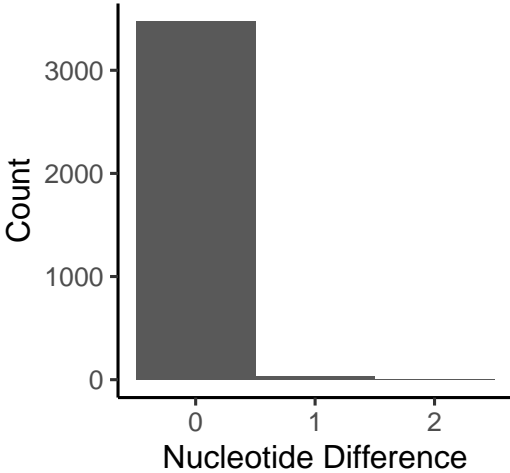
TRBV4-1\*ap01

7055 sequences assigned  
6984 (99%) exact matches, in which:  
6839 unique CDR3  
13 unique J



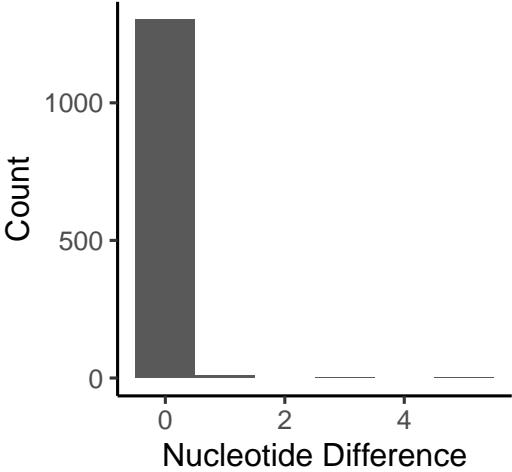
TRBV4-3\*ap01

3514 sequences assigned  
3474 (98.9%) exact matches, in which:  
3414 unique CDR3  
13 unique J



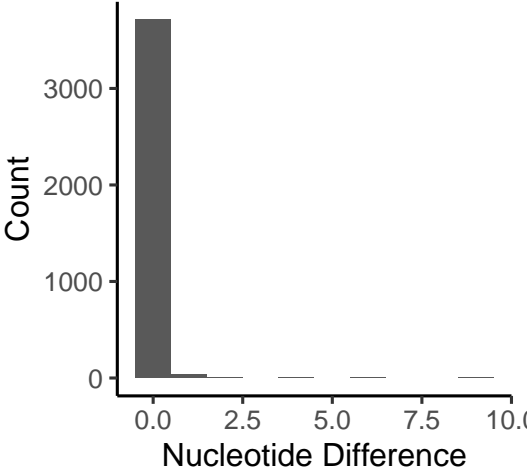
TRBV23-1\*ap01

1314 sequences assigned  
1302 (99.1%) exact matches, in which:  
1285 unique CDR3  
13 unique J



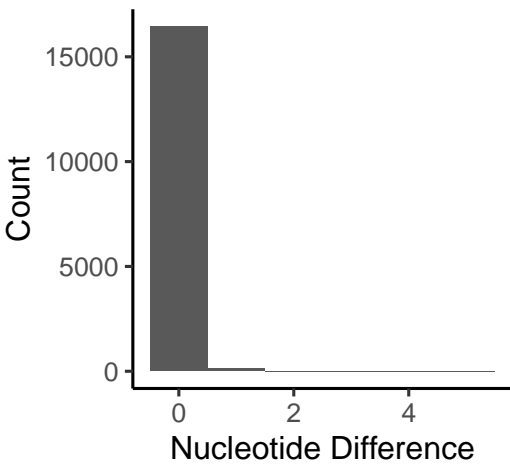
TRBV24-1\*ap01

3754 sequences assigned  
3712 (98.9%) exact matches, in which:  
3631 unique CDR3  
13 unique J



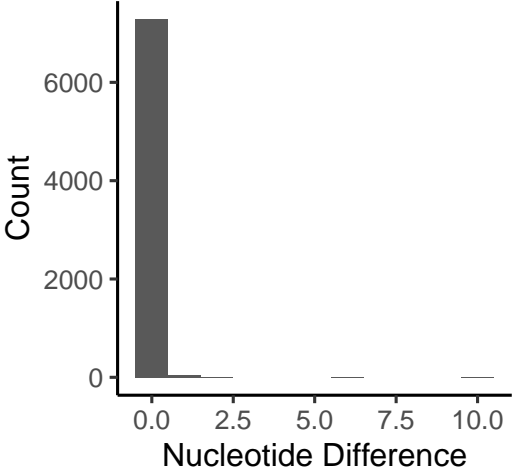
TRBV5-1\*ap01

16588 sequences assigned  
16446 (99.1%) exact matches, in which:  
16113 unique CDR3  
13 unique J



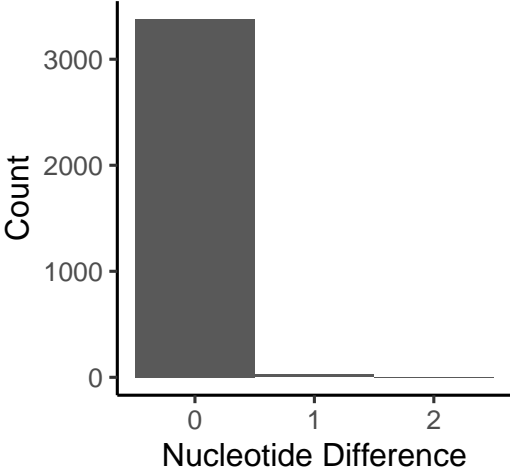
TRBV3-12\*ap01

7341 sequences assigned  
7288 (99.3%) exact matches, in which:  
7201 unique CDR3  
13 unique J



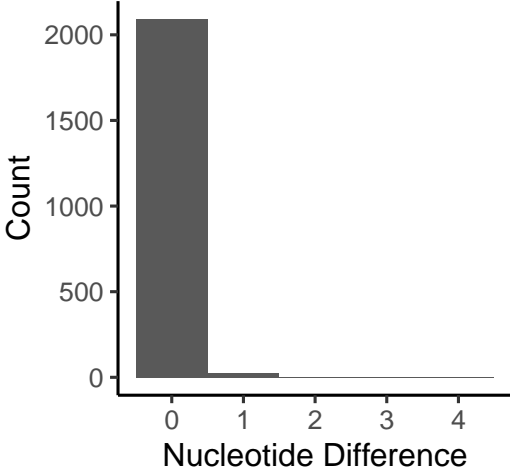
TRBV4-2\*ap01

3407 sequences assigned  
3379 (99.2%) exact matches, in which:  
3322 unique CDR3  
13 unique J



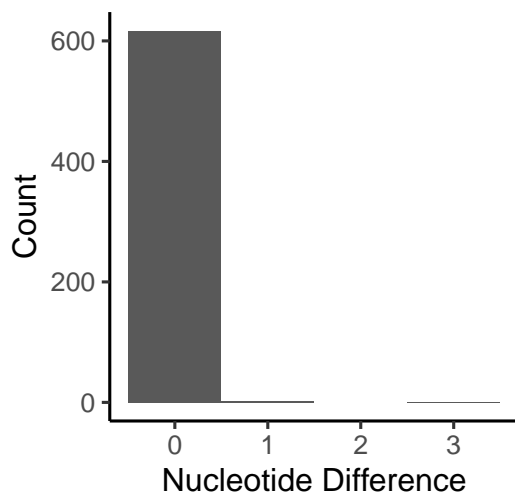
TRBV25-1\*ap01

2119 sequences assigned  
2092 (98.7%) exact matches, in which:  
2031 unique CDR3  
13 unique J



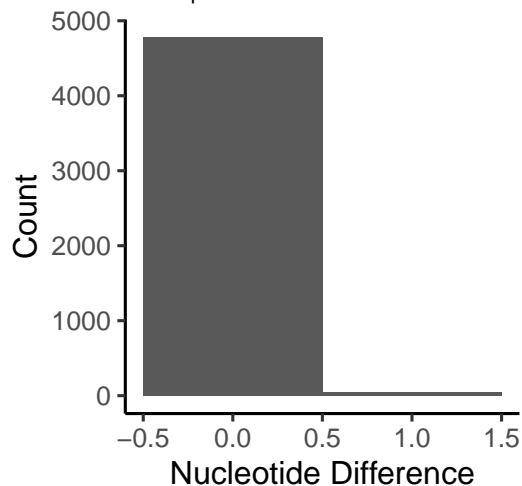
### TRBV5-3\*ap01

620 sequences assigned  
617 (99.5%) exact matches, in which:  
611 unique CDR3  
13 unique J



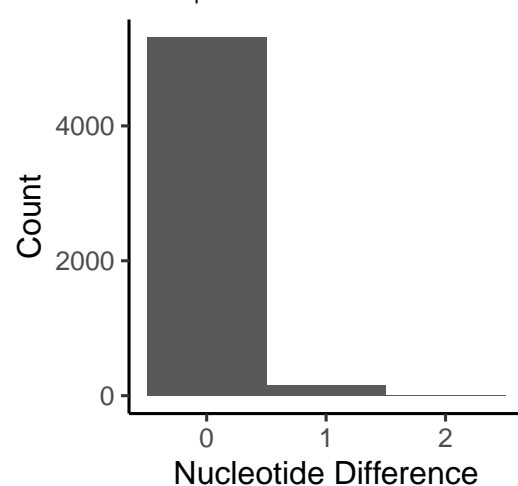
### TRBV5-6\*ap01

4829 sequences assigned  
4778 (98.9%) exact matches, in which:  
4649 unique CDR3  
13 unique J



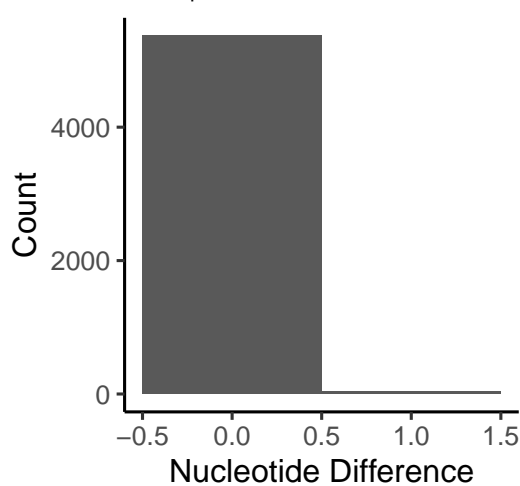
### TRBV6-1\*ap01

5476 sequences assigned  
5312 (97%) exact matches, in which:  
5200 unique CDR3  
13 unique J



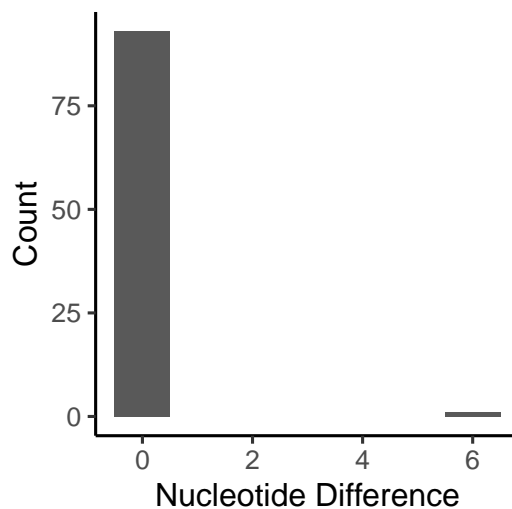
### TRBV5-4\*ap01

5415 sequences assigned  
5371 (99.2%) exact matches, in which:  
5271 unique CDR3  
13 unique J



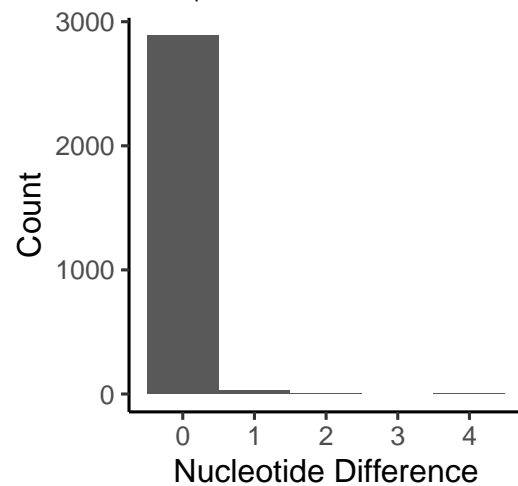
### TRBV5-7\*ap01

94 sequences assigned  
93 (98.9%) exact matches, in which:  
90 unique CDR3  
13 unique J



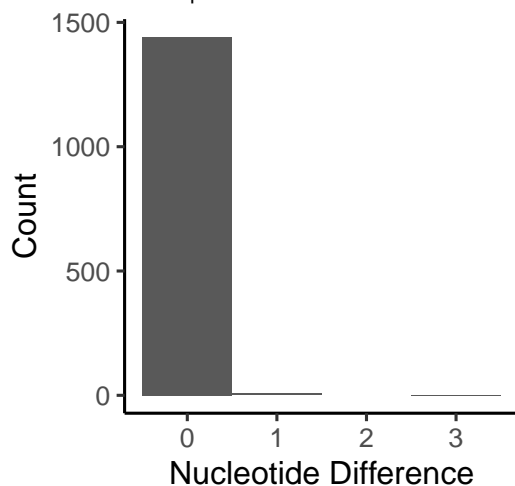
### TRBV6-4\*ap01

2923 sequences assigned  
2887 (98.8%) exact matches, in which:  
2844 unique CDR3  
13 unique J



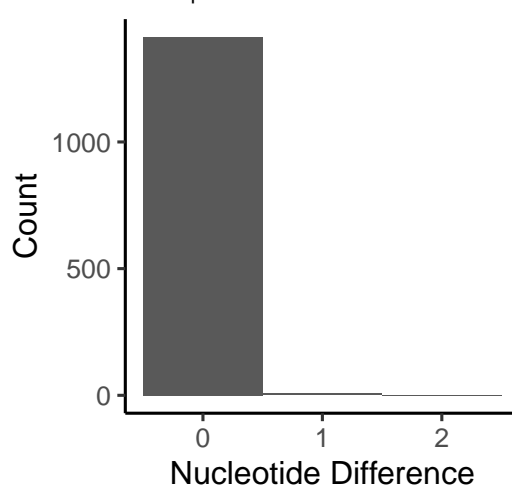
### TRBV5-5\*ap01

1450 sequences assigned  
1441 (99.4%) exact matches, in which:  
1425 unique CDR3  
13 unique J



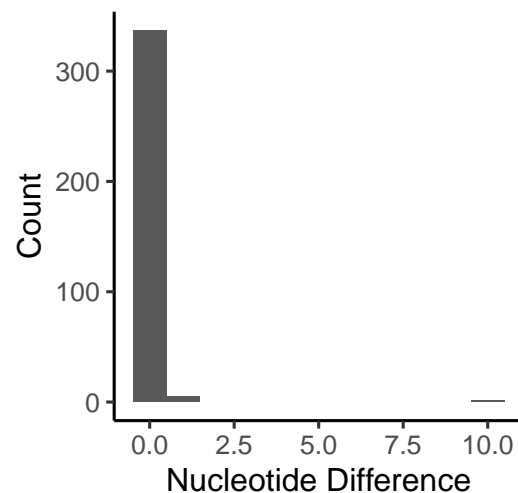
### TRBV5-8\*ap01

1423 sequences assigned  
1414 (99.4%) exact matches, in which:  
1389 unique CDR3  
13 unique J



### TRBV6-7\*ap01

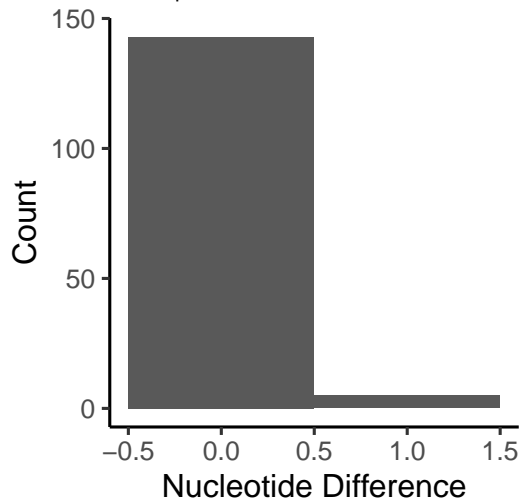
343 sequences assigned  
337 (98.3%) exact matches, in which:  
326 unique CDR3  
13 unique J





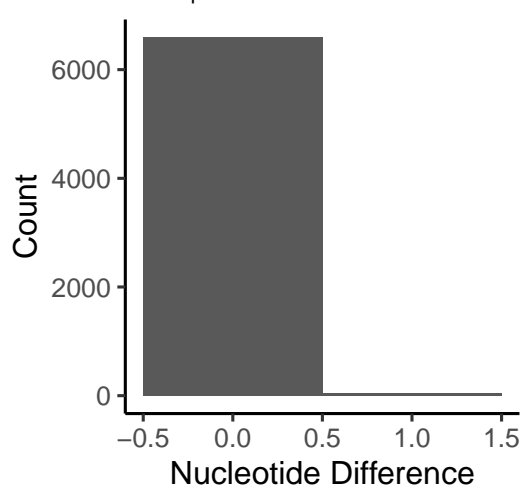
### TRBV6–8\*ap01

148 sequences assigned  
143 (96.6%) exact matches, in which:  
140 unique CDR3  
13 unique J



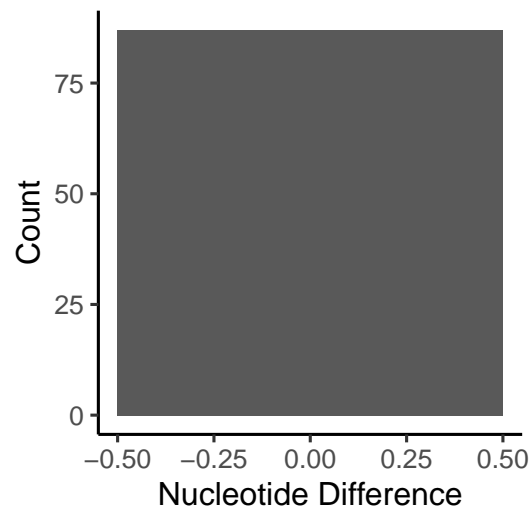
### TRBV6–56\*ap01

6647 sequences assigned  
6593 (99.2%) exact matches, in which:  
6406 unique CDR3  
13 unique J



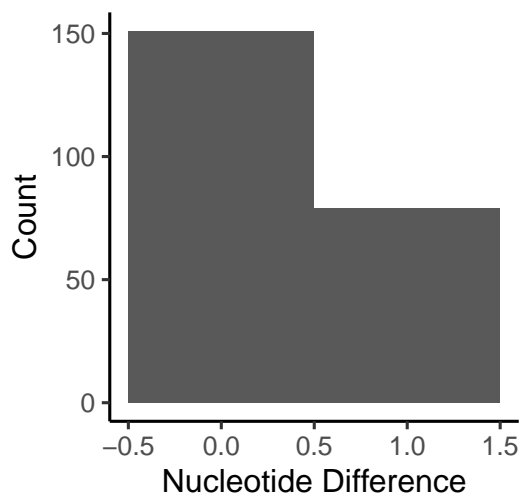
### TRBV7–1\*ap01\_G291C\_T

87 sequences assigned  
87 (100%) exact matches, in which:  
86 unique CDR3  
13 unique J



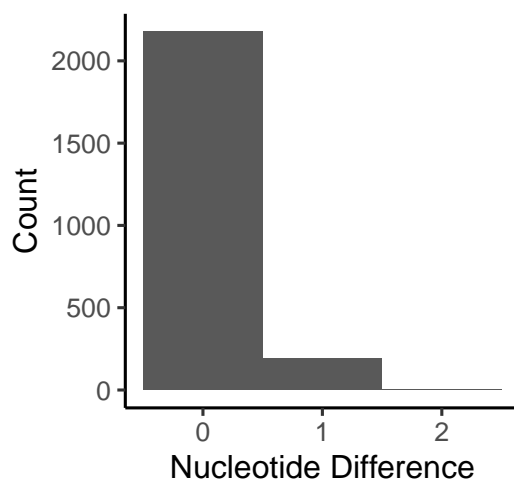
### TRBV6–9\*ap01

230 sequences assigned  
151 (65.7%) exact matches, in which:  
145 unique CDR3  
13 unique J



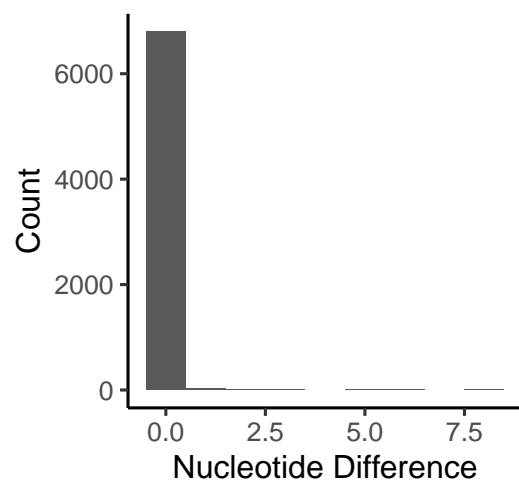
### TRBV6–56\*ap02

2375 sequences assigned  
2177 (91.7%) exact matches, in which:  
2115 unique CDR3  
13 unique J



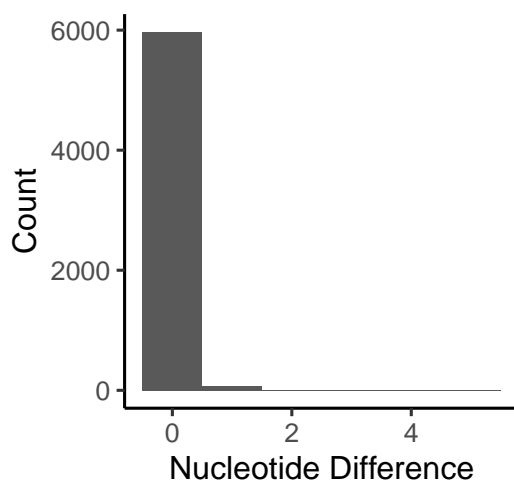
### TRBV7–2\*ap01

6839 sequences assigned  
6797 (99.4%) exact matches, in which:  
6695 unique CDR3  
13 unique J



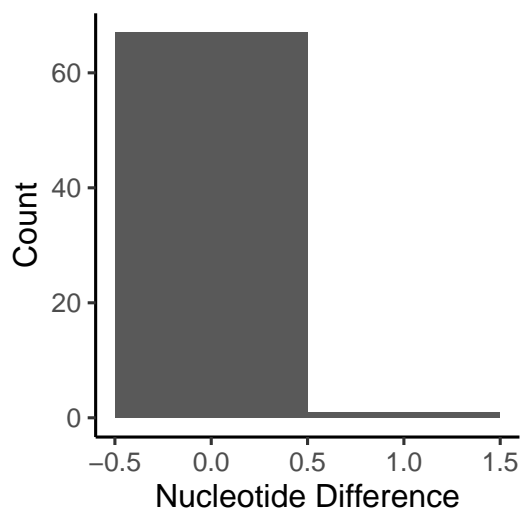
### TRBV6–23\*ap01

6046 sequences assigned  
5968 (98.7%) exact matches, in which:  
5787 unique CDR3  
13 unique J



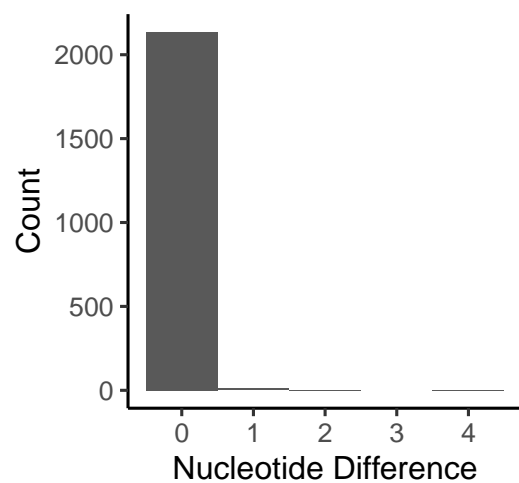
### TRBV7–1\*ap01\_G291C\_T

68 sequences assigned  
67 (98.5%) exact matches, in which:  
66 unique CDR3  
12 unique J



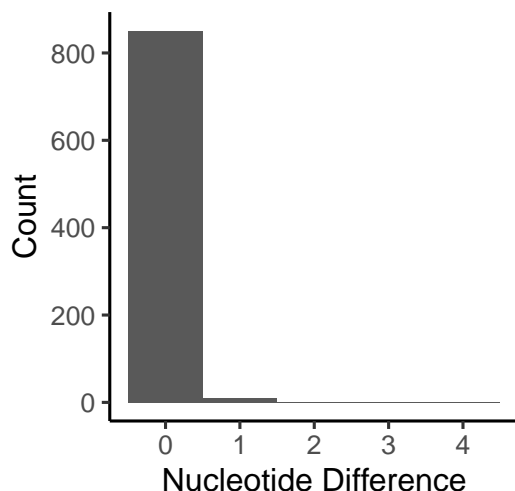
### TRBV7–3\*ap01

2149 sequences assigned  
2135 (99.3%) exact matches, in which:  
2124 unique CDR3  
13 unique J



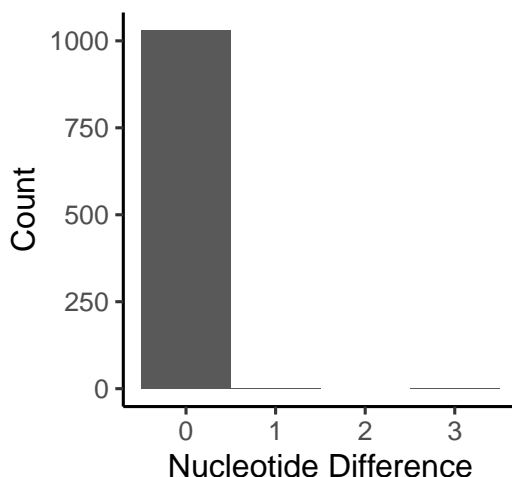
### TRBV7-3\*ap03

865 sequences assigned  
851 (98.4%) exact matches, in which:  
841 unique CDR3  
13 unique J



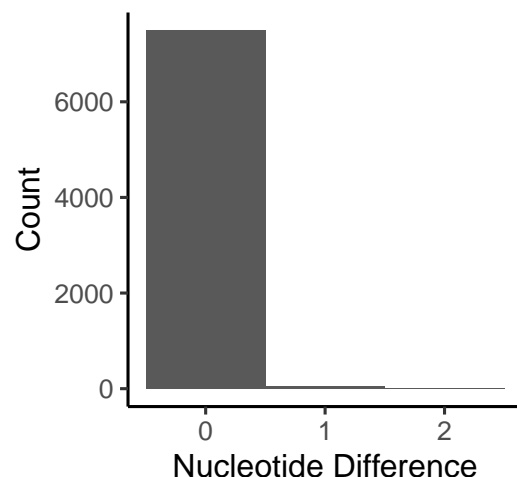
### TRBV7-7\*ap01\_C315T

1033 sequences assigned  
1030 (99.7%) exact matches, in which:  
1008 unique CDR3  
13 unique J



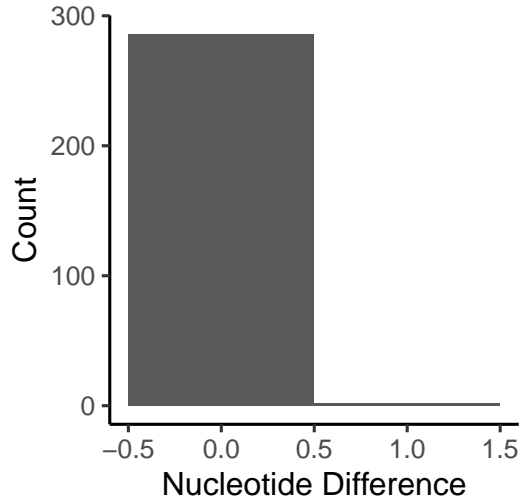
### TRBV7-9\*ap01

7546 sequences assigned  
7493 (99.3%) exact matches, in which:  
7391 unique CDR3  
13 unique J



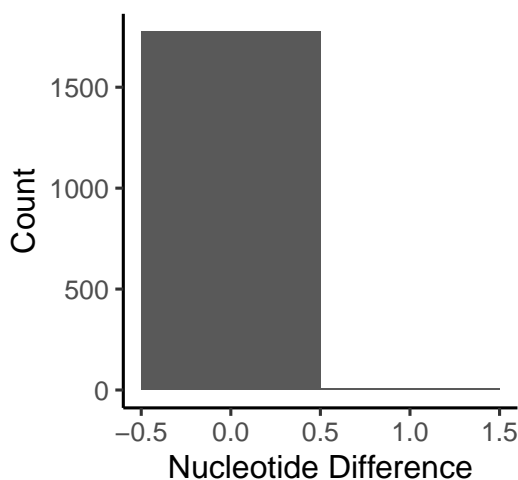
### TRBV7-4\*ap01

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



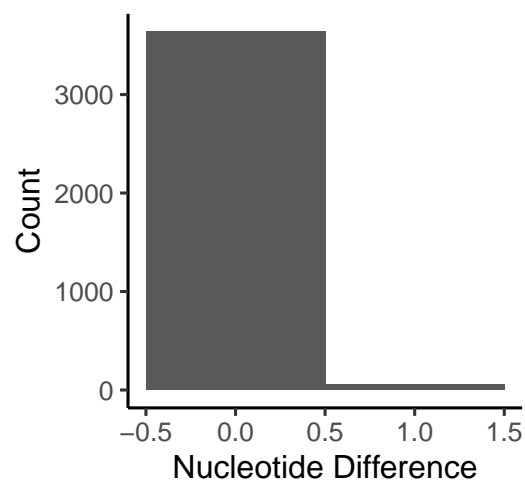
### TRBV7-8\*ap01

1782 sequences assigned  
1775 (99.6%) exact matches, in which:  
1738 unique CDR3  
13 unique J



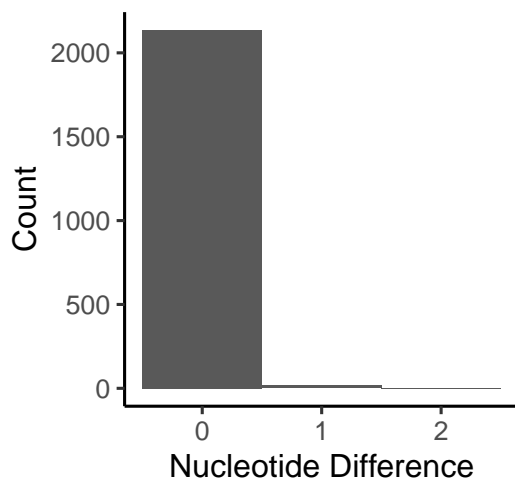
### TRBV29-1\*ap01

3697 sequences assigned  
3638 (98.4%) exact matches, in which:  
3484 unique CDR3  
13 unique J



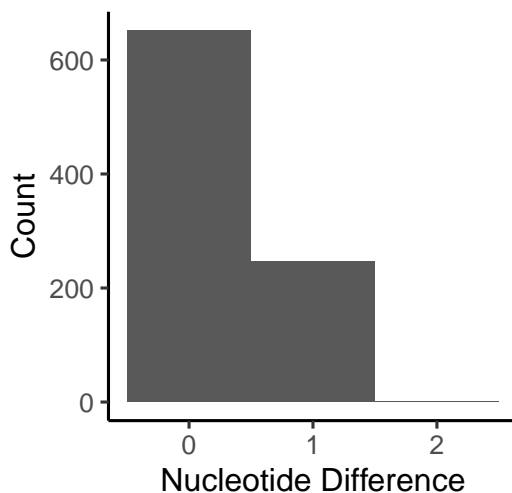
### TRBV7-6\*ap01

2154 sequences assigned  
2136 (99.2%) exact matches, in which:  
2099 unique CDR3  
13 unique J



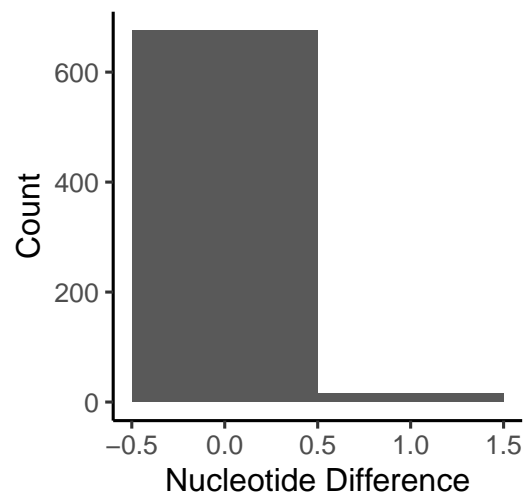
### TRBV7-8\*ap03

899 sequences assigned  
652 (72.5%) exact matches, in which:  
637 unique CDR3  
13 unique J

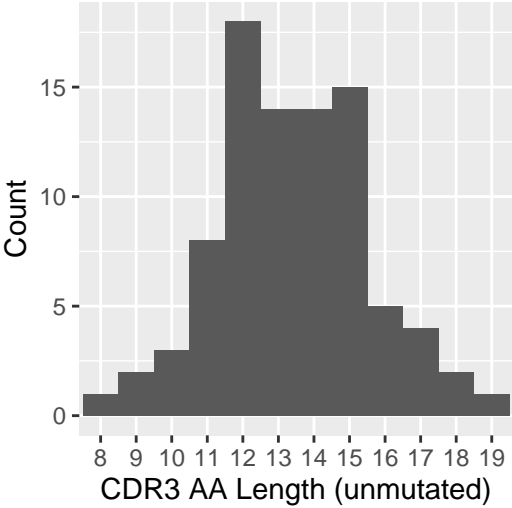


### TRBV29-1\*ap02

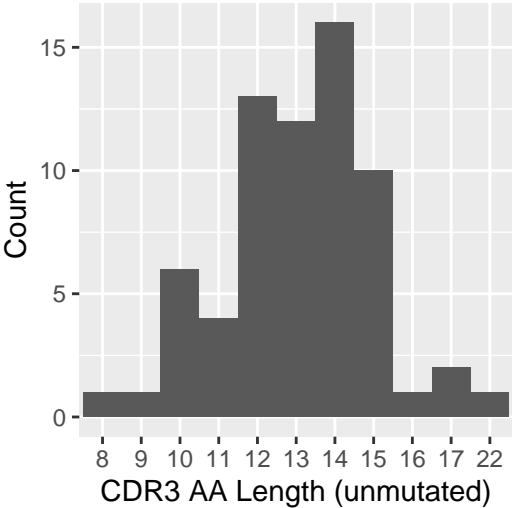
691 sequences assigned  
676 (97.8%) exact matches, in which:  
649 unique CDR3  
13 unique J



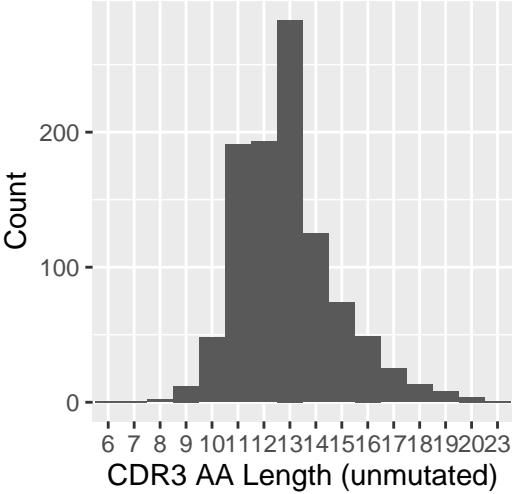
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]