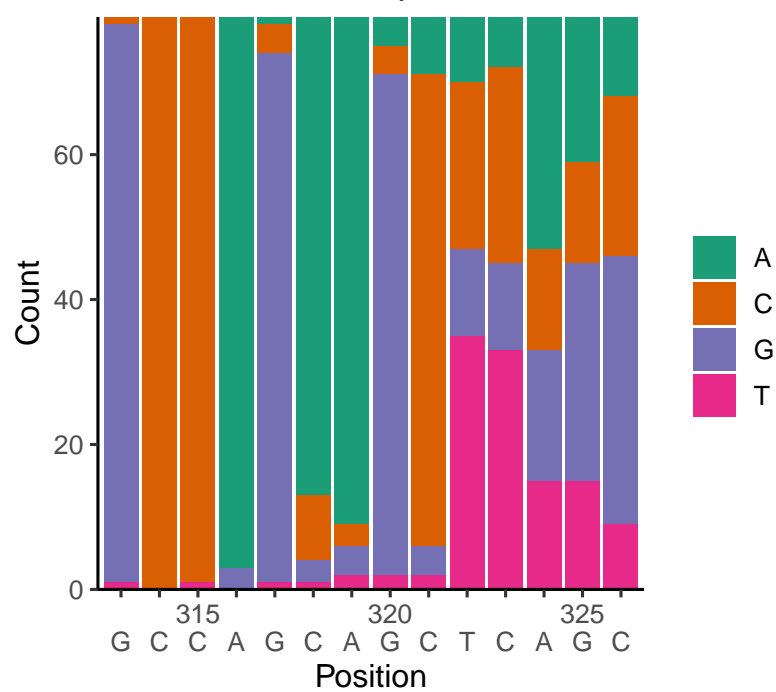
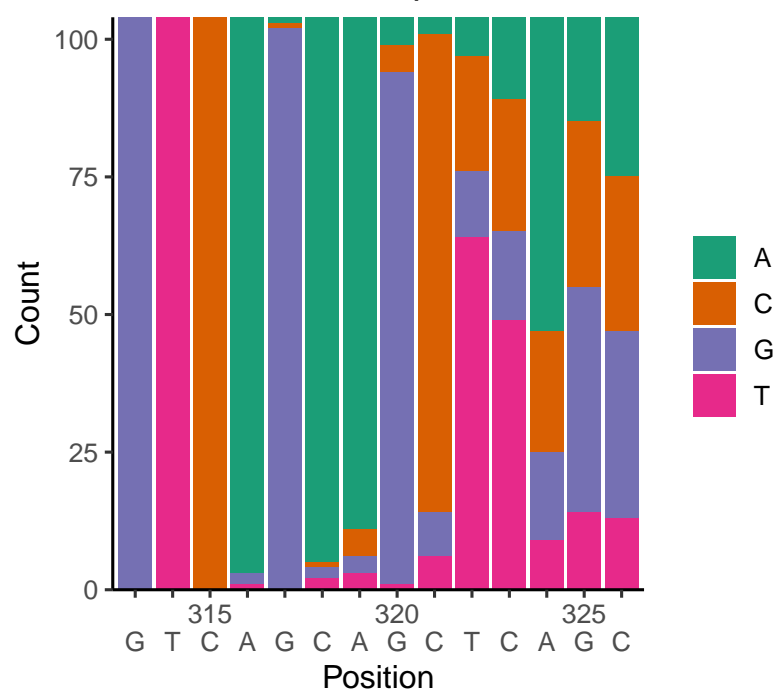


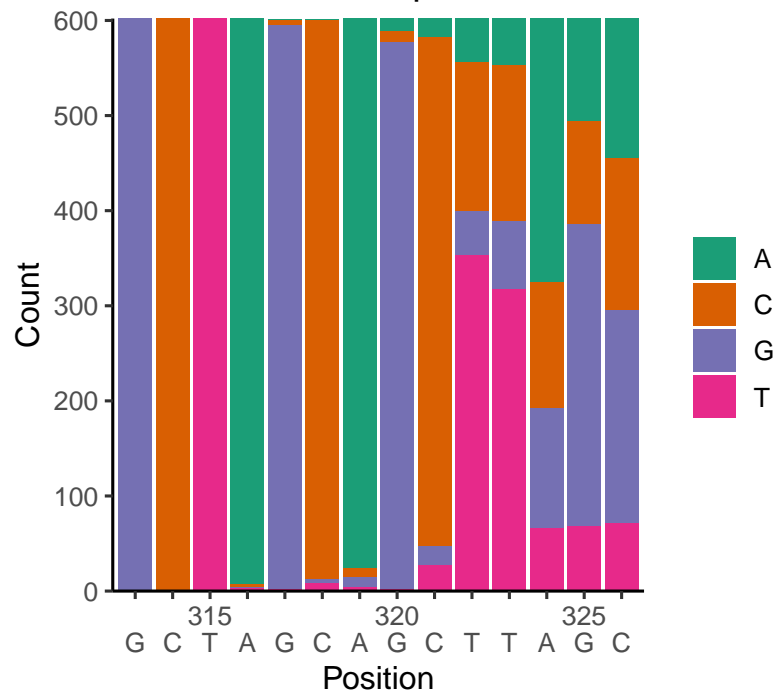
Gene TRBV7-1\*ap01\_G291C\_T296C



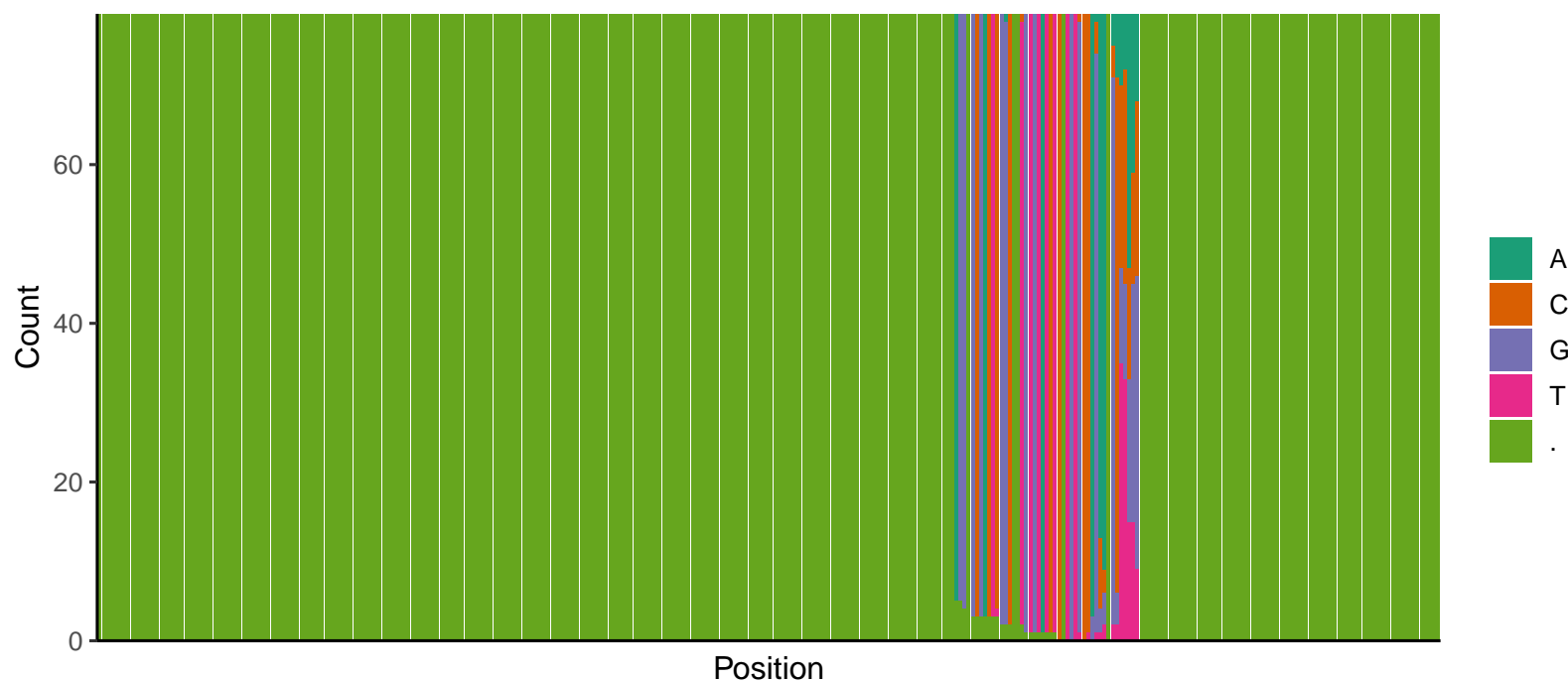
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_G291C\_T296C



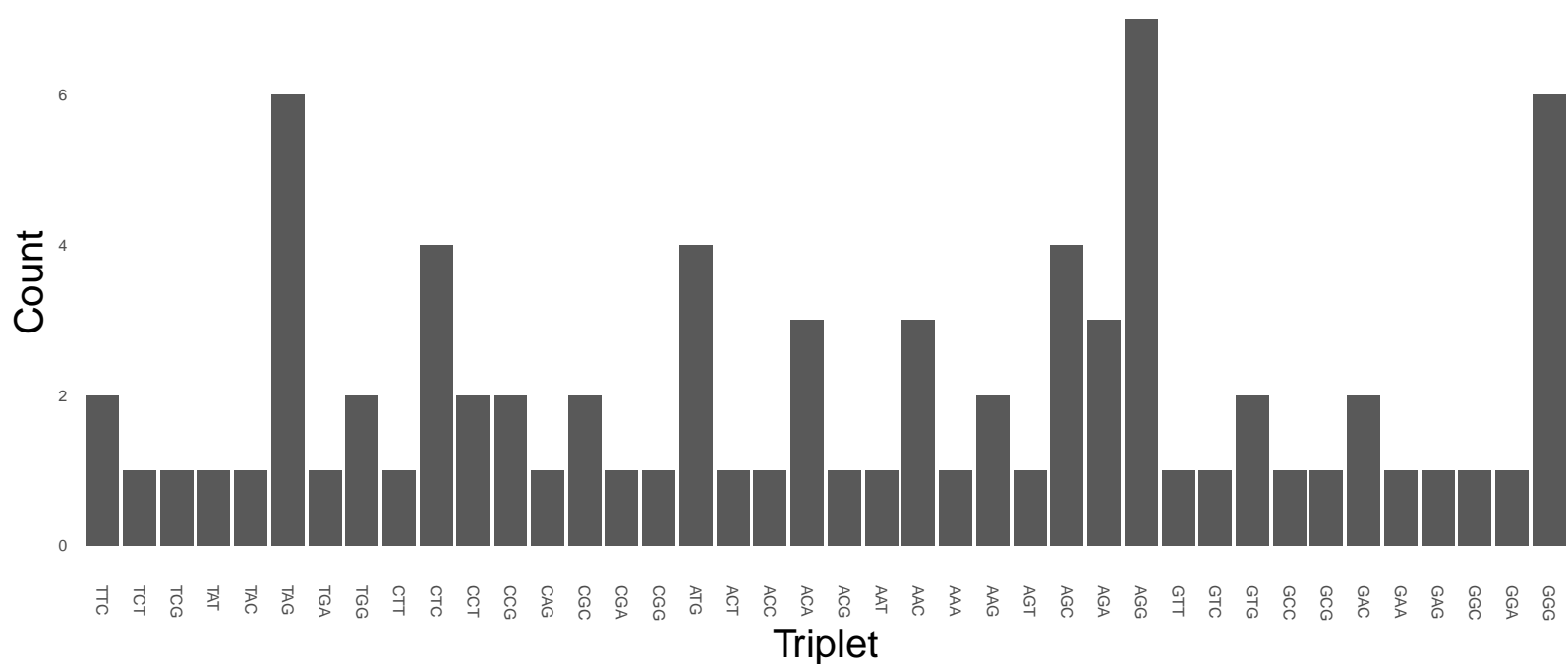
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



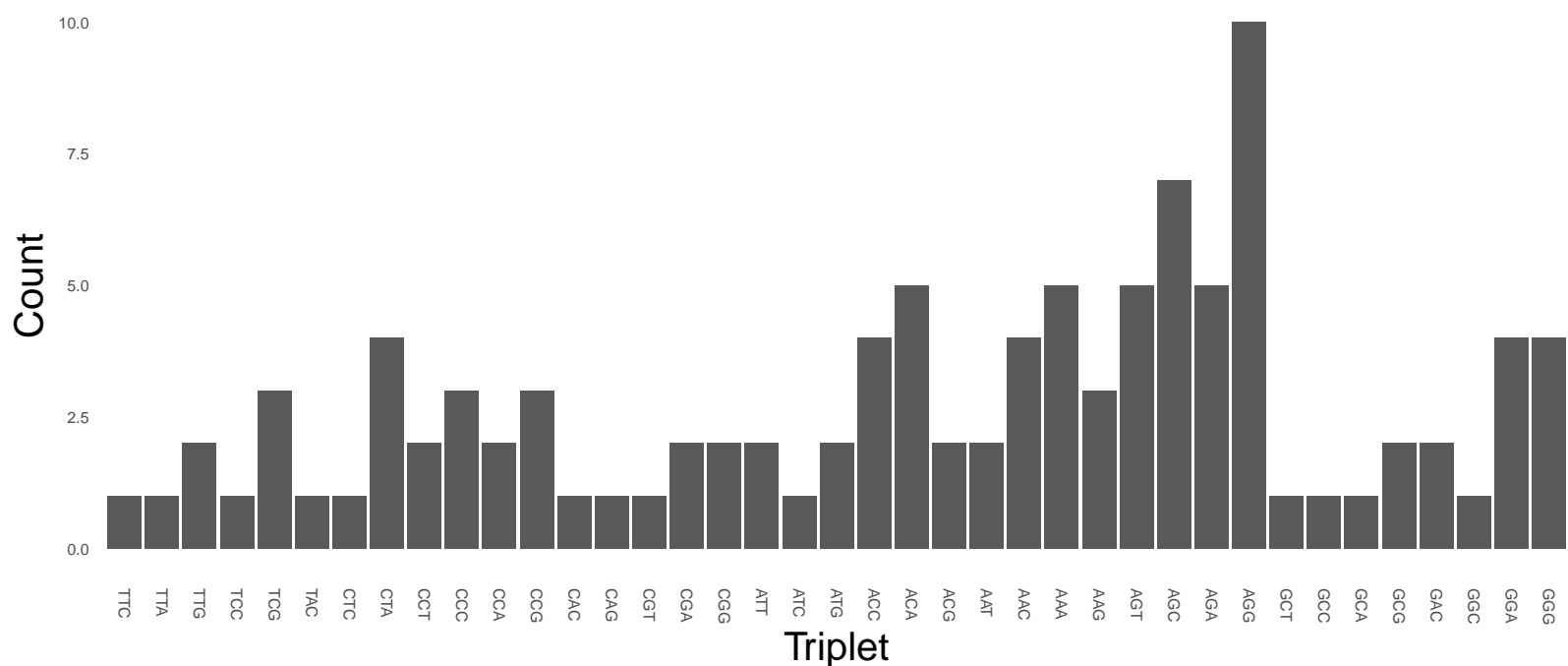
Gene TRBV7-7\*ap01\_C315T



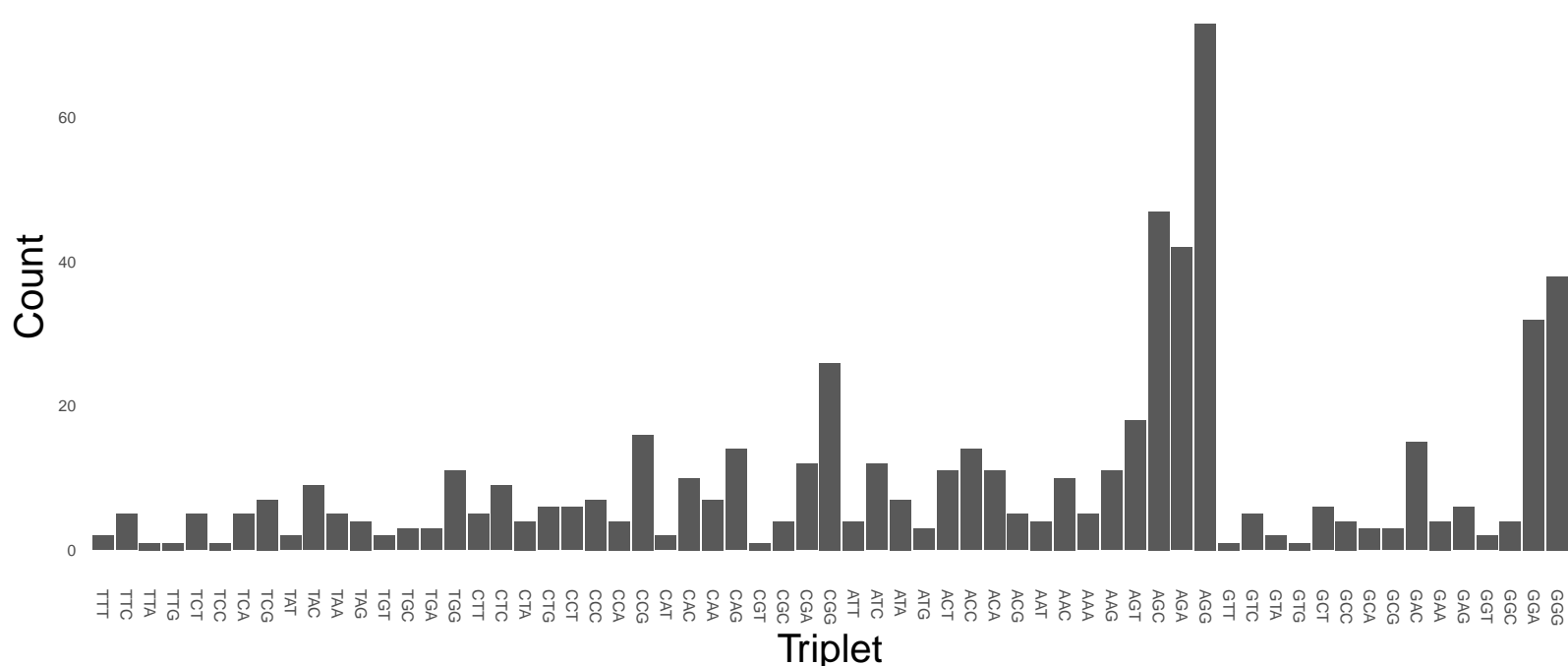
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



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

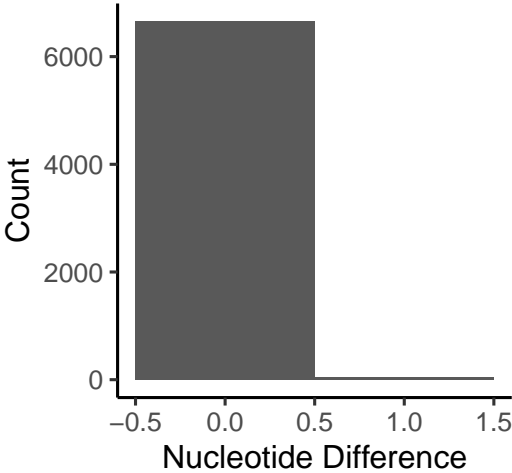


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



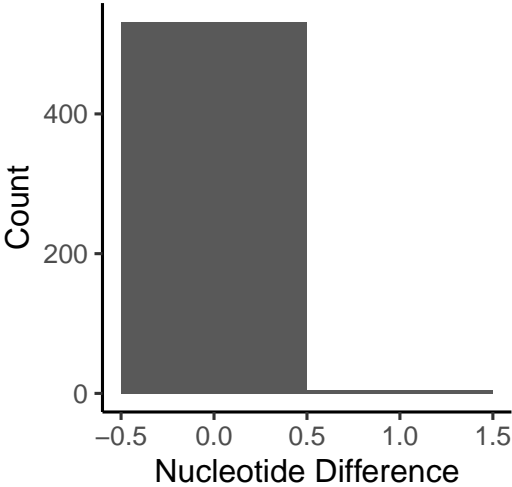
TRBV20–1\*ap01

6703 sequences assigned  
6654 (99.3%) exact matches, in which:  
6589 unique CDR3  
13 unique J



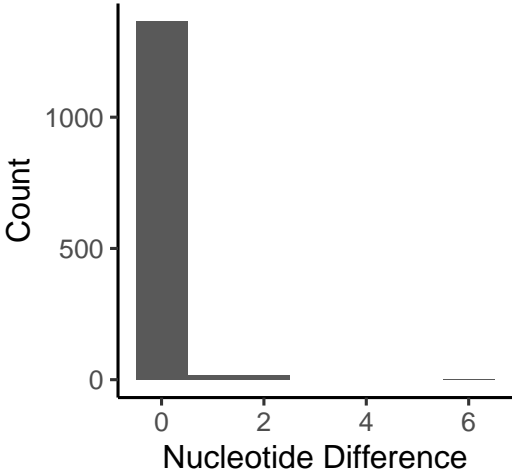
TRBV10–2\*ap01

537 sequences assigned  
532 (99.1%) exact matches, in which:  
527 unique CDR3  
13 unique J



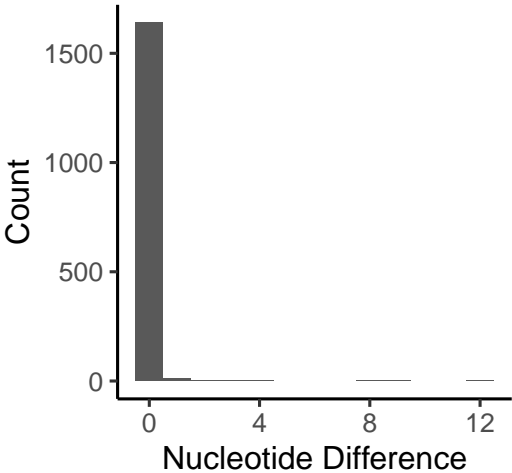
TRBV13\*ap01

1399 sequences assigned  
1365 (97.6%) exact matches, in which:  
1339 unique CDR3  
13 unique J



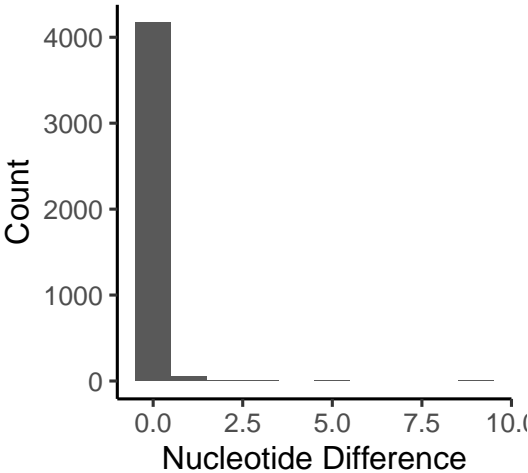
TRBV10–1\*ap01

1660 sequences assigned  
1640 (98.8%) exact matches, in which:  
1611 unique CDR3  
13 unique J



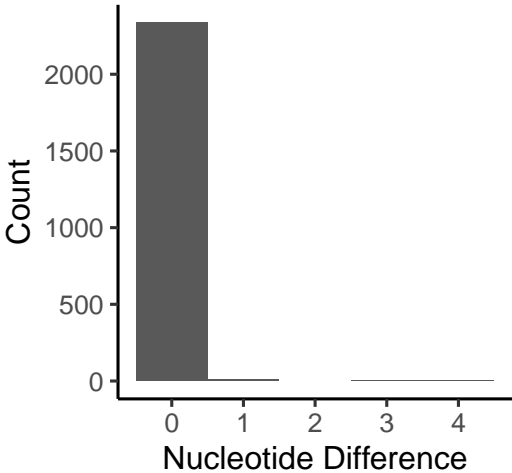
TRBV10–3\*ap01

4233 sequences assigned  
4169 (98.5%) exact matches, in which:  
4120 unique CDR3  
13 unique J



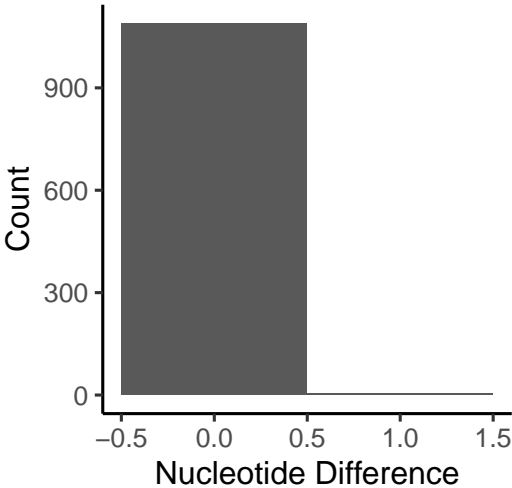
TRBV14\*ap01

2347 sequences assigned  
2336 (99.5%) exact matches, in which:  
2315 unique CDR3  
13 unique J



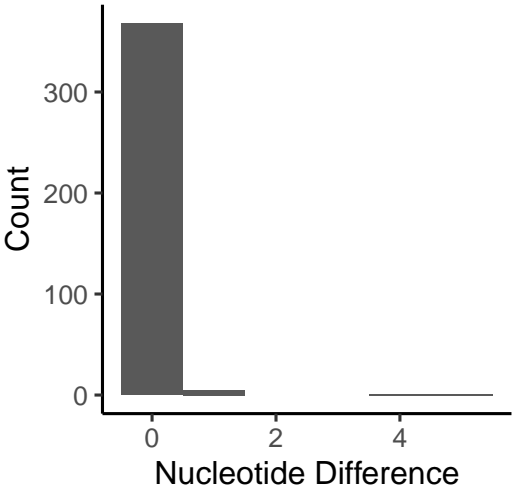
TRBV20–1\*ap02

1094 sequences assigned  
1089 (99.5%) exact matches, in which:  
1080 unique CDR3  
13 unique J



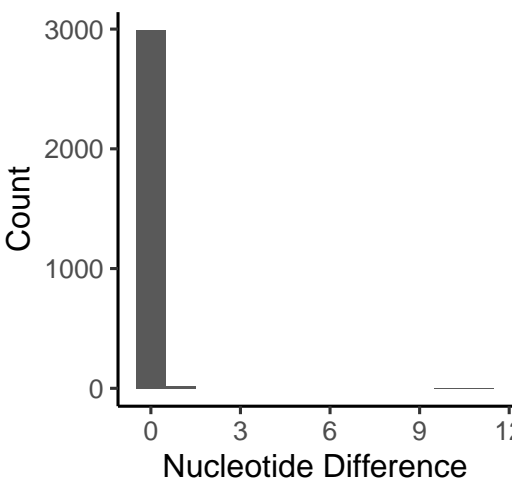
TRBV1\*ap01

375 sequences assigned  
368 (98.1%) exact matches, in which:  
364 unique CDR3  
13 unique J



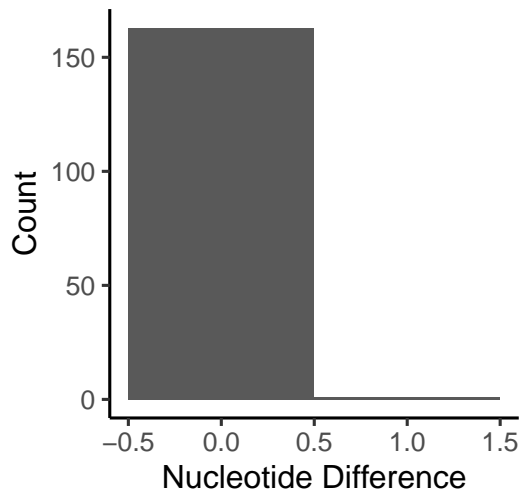
TRBV15\*ap02

3014 sequences assigned  
2992 (99.3%) exact matches, in which:  
2942 unique CDR3  
13 unique J



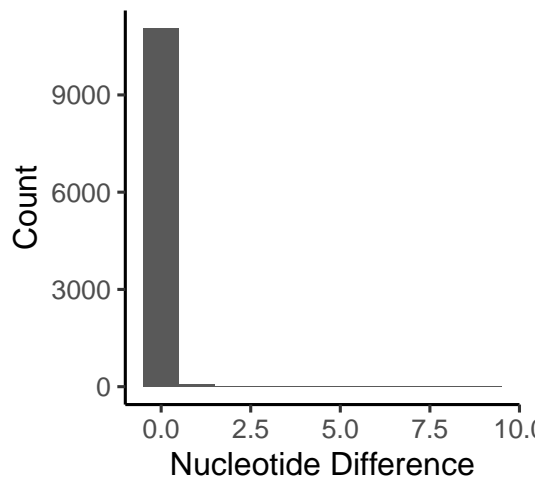
### TRBV16\*ap01

164 sequences assigned  
163 (99.4%) exact matches, in which:  
162 unique CDR3  
13 unique J



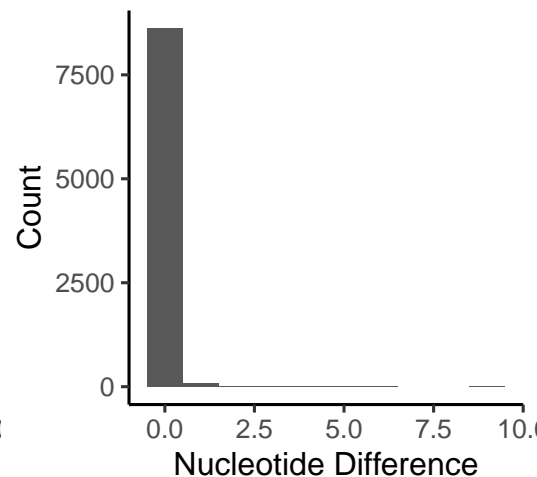
### TRBV19\*ap01

11152 sequences assigned  
11052 (99.1%) exact matches, in which:  
10975 unique CDR3  
13 unique J



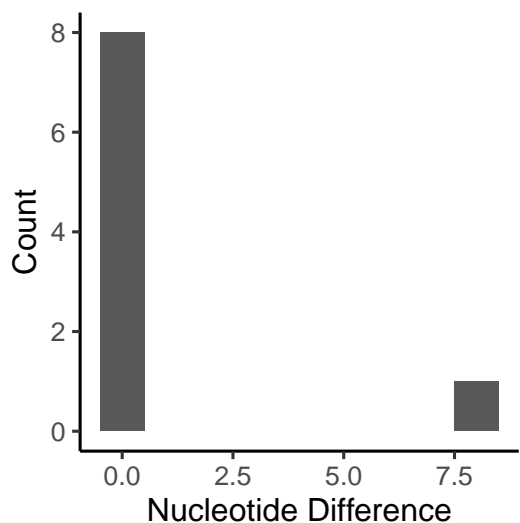
### TRBV27\*ap01

8723 sequences assigned  
8617 (98.8%) exact matches, in which:  
8506 unique CDR3  
13 unique J



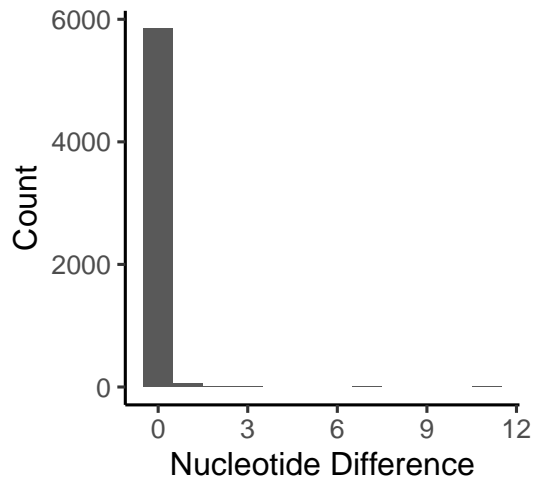
### TRBV17\*ap01

9 sequences assigned  
8 (88.9%) exact matches, in which:  
8 unique CDR3  
6 unique J



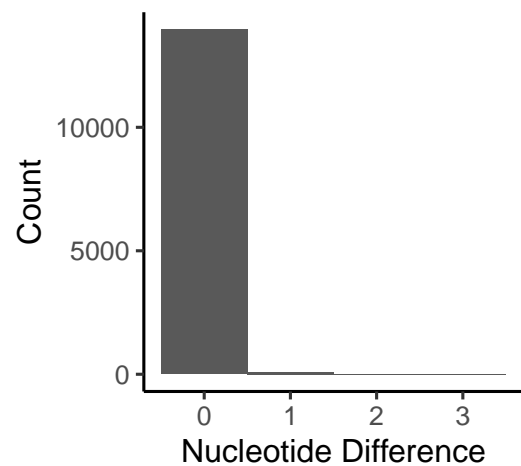
### TRBV2\*ap01

5912 sequences assigned  
5846 (98.9%) exact matches, in which:  
5758 unique CDR3  
13 unique J



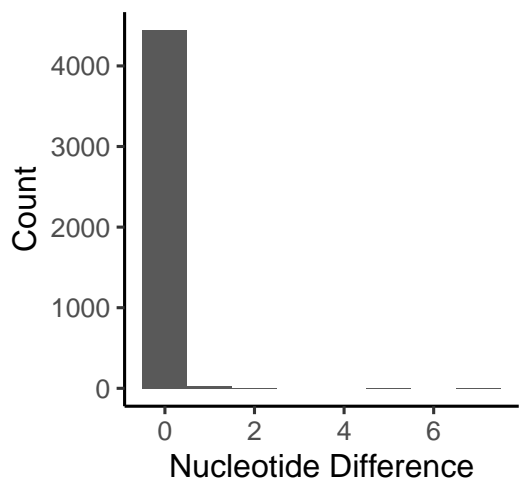
### TRBV28\*ap01

14051 sequences assigned  
13963 (99.4%) exact matches, in which:  
13790 unique CDR3  
13 unique J



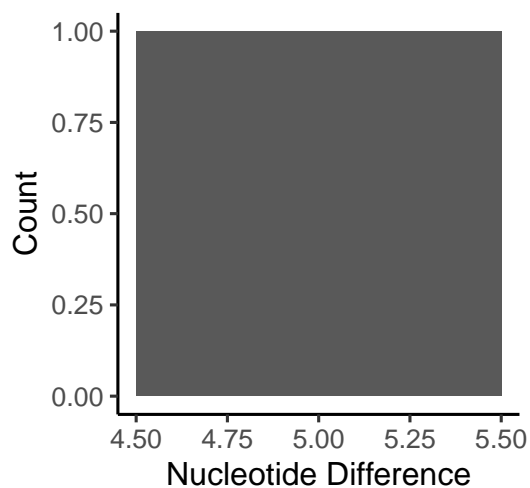
### TRBV18\*ap01

4474 sequences assigned  
4445 (99.4%) exact matches, in which:  
4421 unique CDR3  
13 unique J



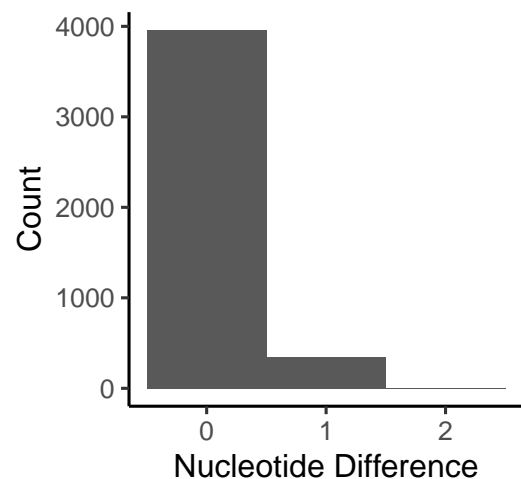
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



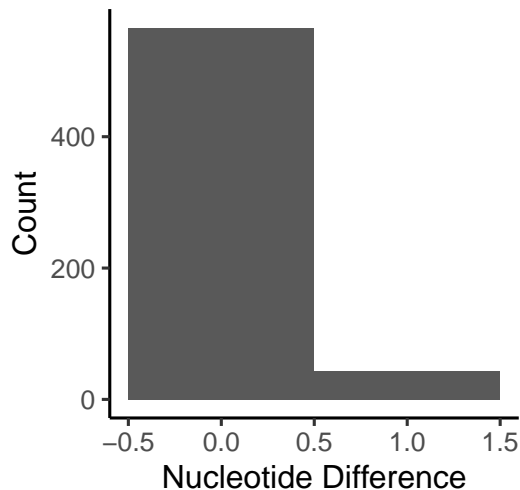
### TRBV30\*ap01

4308 sequences assigned  
3959 (91.9%) exact matches, in which:  
3863 unique CDR3  
13 unique J



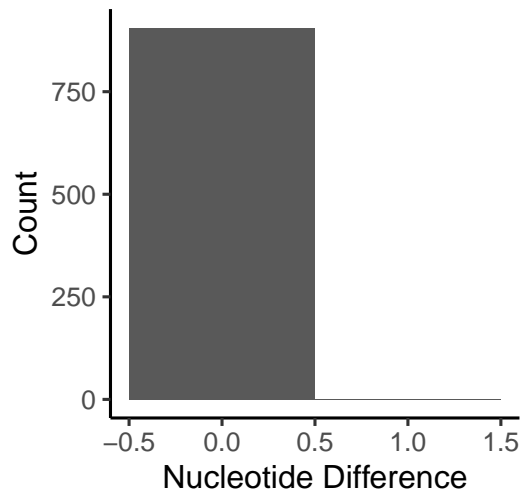
### TRBV30\*ap03

609 sequences assigned  
566 (92.9%) exact matches, in which:  
550 unique CDR3  
13 unique J



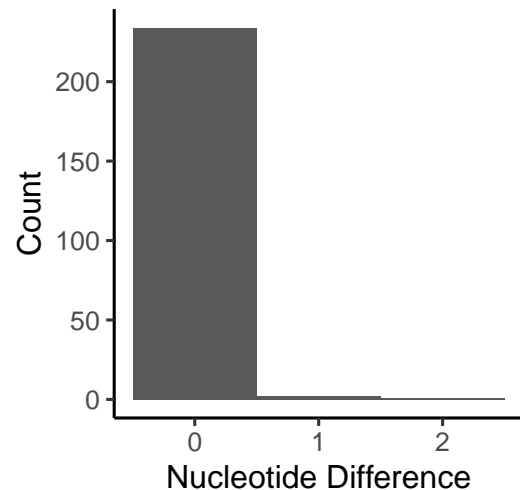
### TRBV11-1\*ap01

907 sequences assigned  
906 (99.9%) exact matches, in which:  
900 unique CDR3  
13 unique J



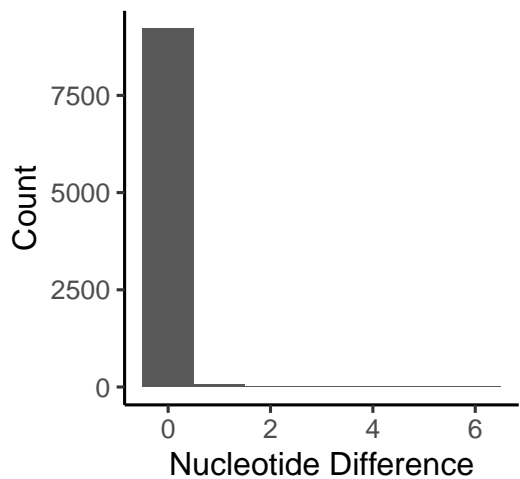
### TRBV12-1\*ap01

237 sequences assigned  
234 (98.7%) exact matches, in which:  
232 unique CDR3  
13 unique J



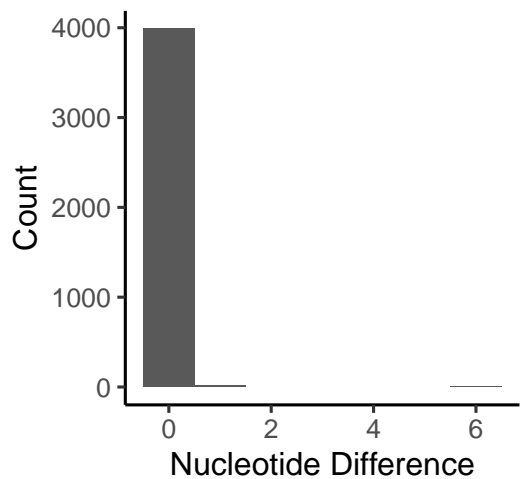
### TRBV9\*ap01

9292 sequences assigned  
9215 (99.2%) exact matches, in which:  
9129 unique CDR3  
13 unique J



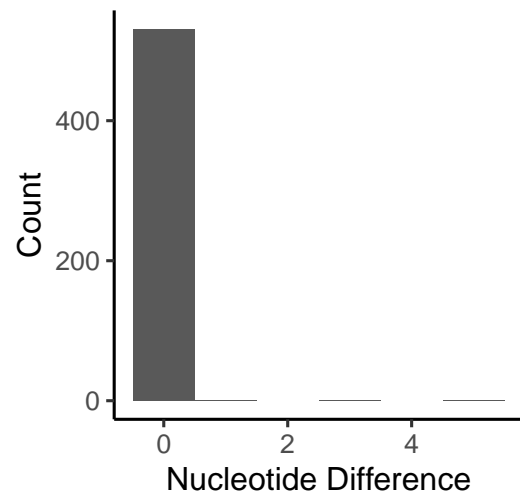
### TRBV11-2\*ap01

4008 sequences assigned  
3989 (99.5%) exact matches, in which:  
3958 unique CDR3  
13 unique J



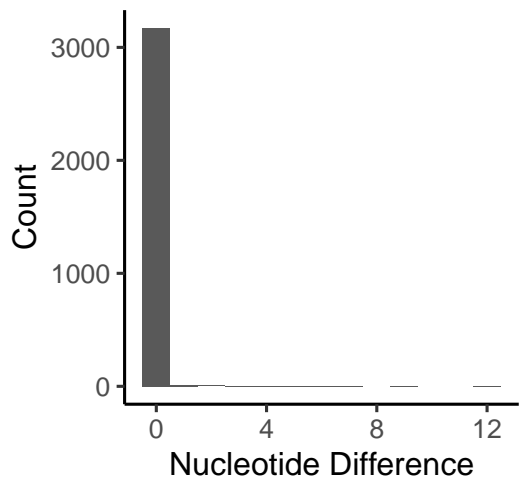
### TRBV12-2\*ap01

534 sequences assigned  
531 (99.4%) exact matches, in which:  
526 unique CDR3  
13 unique J



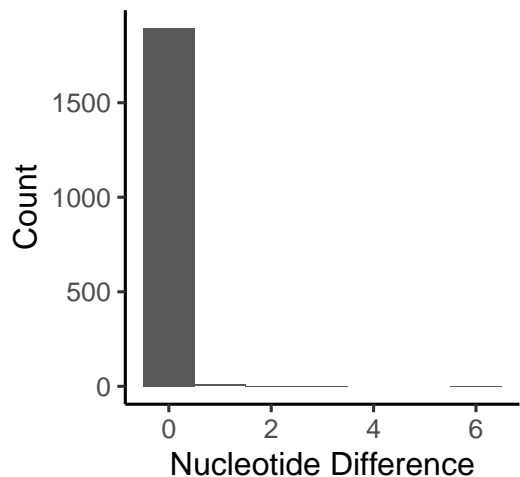
### TRBV21-1\*ap01

3201 sequences assigned  
3171 (99.1%) exact matches, in which:  
3154 unique CDR3  
13 unique J



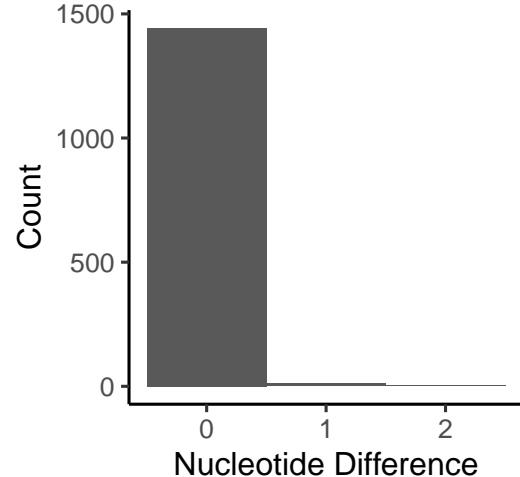
### TRBV11-3\*ap01

1909 sequences assigned  
1895 (99.3%) exact matches, in which:  
1882 unique CDR3  
13 unique J



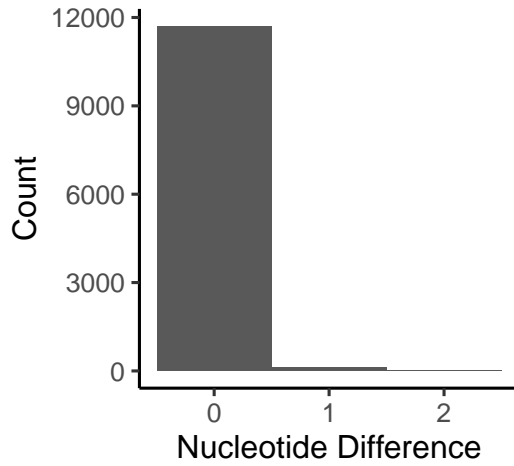
### TRBV12-5\*ap01

1457 sequences assigned  
1443 (99%) exact matches, in which:  
1424 unique CDR3  
13 unique J



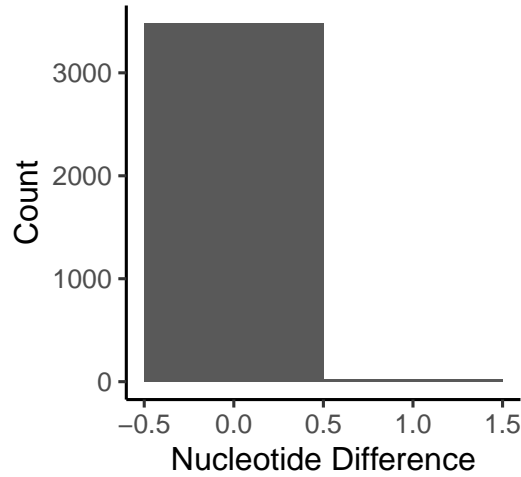
### TRBV12–34\*ap01

11827 sequences assigned  
11706 (99%) exact matches, in which:  
11546 unique CDR3  
13 unique J



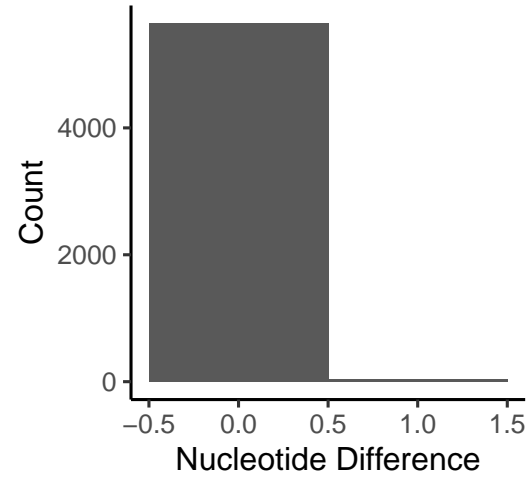
### TRBV4–1\*ap01

3502 sequences assigned  
3480 (99.4%) exact matches, in which:  
3414 unique CDR3  
13 unique J



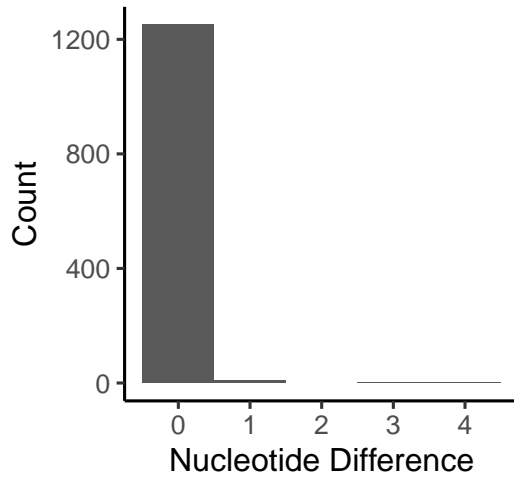
### TRBV4–3\*ap01

5686 sequences assigned  
5647 (99.3%) exact matches, in which:  
5526 unique CDR3  
13 unique J



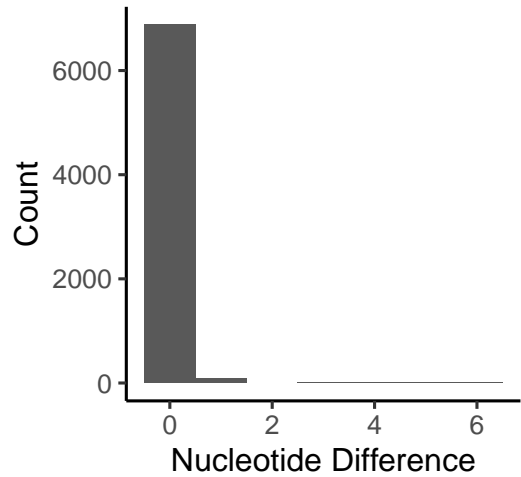
### TRBV23–1\*ap01

1263 sequences assigned  
1251 (99%) exact matches, in which:  
1240 unique CDR3  
13 unique J



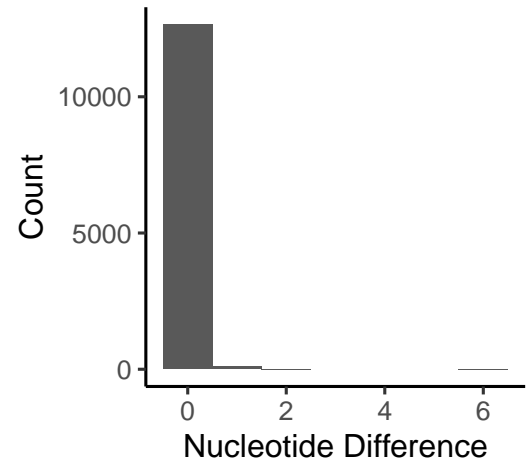
### TRBV24–1\*ap01

6975 sequences assigned  
6880 (98.6%) exact matches, in which:  
6761 unique CDR3  
13 unique J



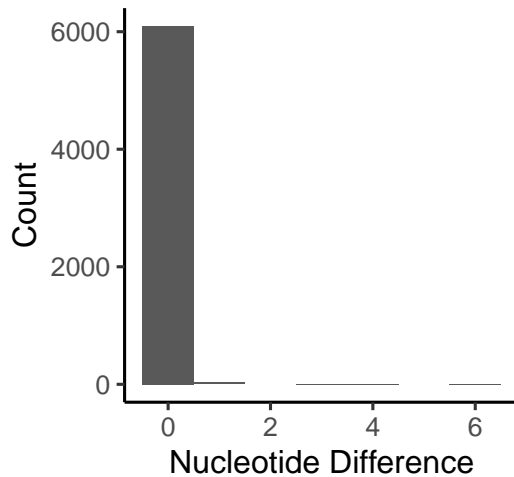
### TRBV5–1\*ap01

12757 sequences assigned  
12653 (99.2%) exact matches, in which:  
12392 unique CDR3  
13 unique J



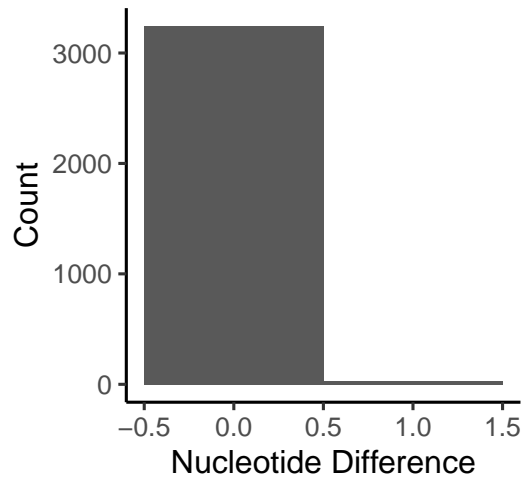
### TRBV3–12\*ap01

6129 sequences assigned  
6096 (99.5%) exact matches, in which:  
6049 unique CDR3  
13 unique J



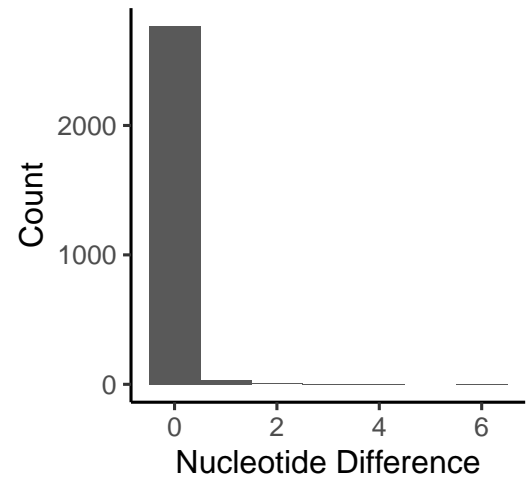
### TRBV4–2\*ap01

3272 sequences assigned  
3244 (99.1%) exact matches, in which:  
3191 unique CDR3  
13 unique J



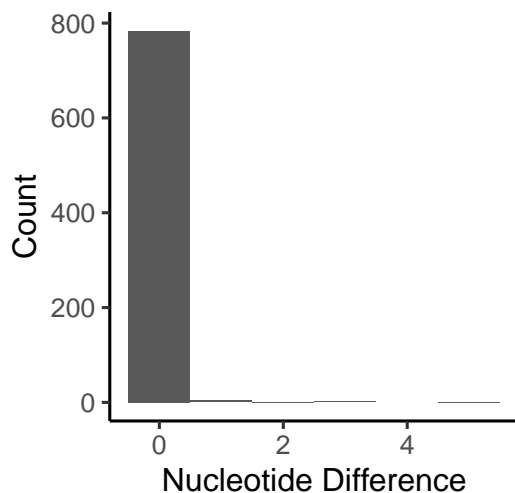
### TRBV25–1\*ap01

2808 sequences assigned  
2768 (98.6%) exact matches, in which:  
2704 unique CDR3  
13 unique J



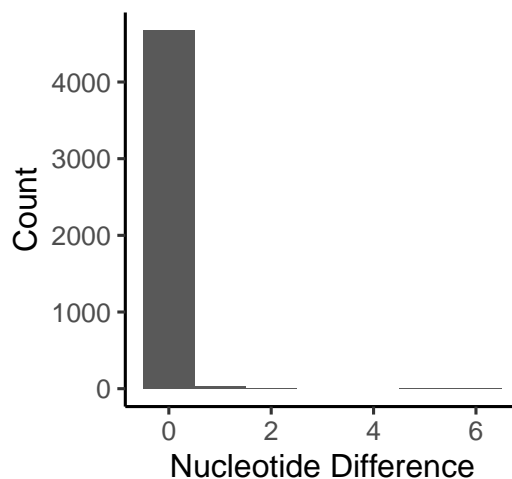
### TRBV5-3\*ap01

792 sequences assigned  
784 (99%) exact matches, in which:  
774 unique CDR3  
13 unique J



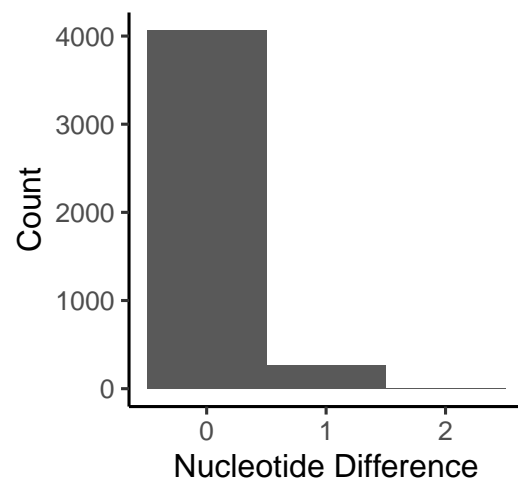
### TRBV5-6\*ap01

4715 sequences assigned  
4673 (99.1%) exact matches, in which:  
4567 unique CDR3  
13 unique J



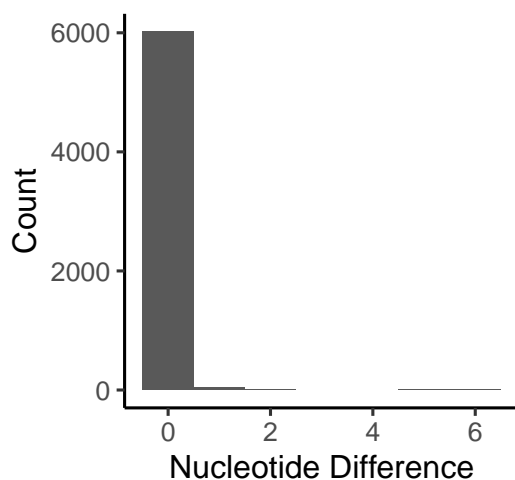
### TRBV6-1\*ap01

4338 sequences assigned  
4064 (93.7%) exact matches, in which:  
3998 unique CDR3  
13 unique J



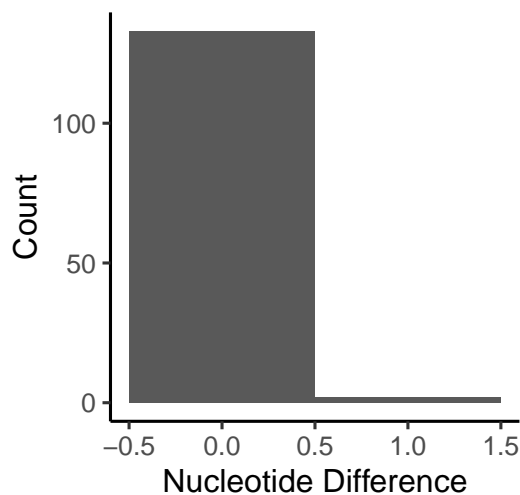
### TRBV5-4\*ap01

6069 sequences assigned  
6018 (99.2%) exact matches, in which:  
5908 unique CDR3  
13 unique J



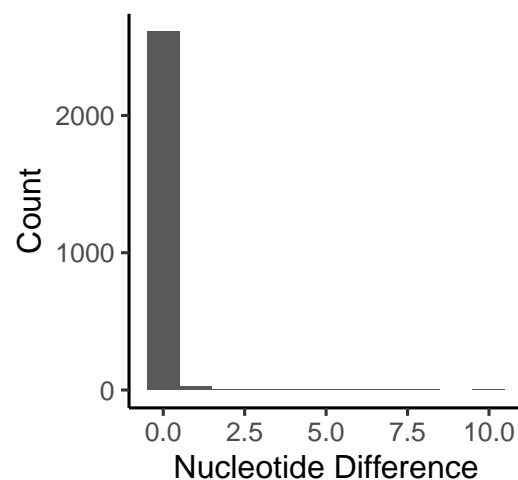
### TRBV5-7\*ap01

135 sequences assigned  
133 (98.5%) exact matches, in which:  
131 unique CDR3  
13 unique J



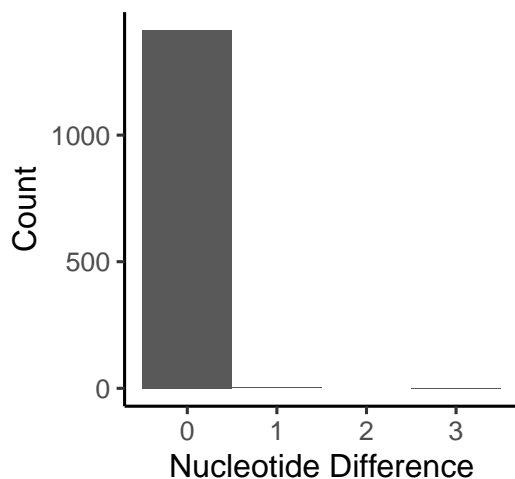
### TRBV6-4\*ap01

2646 sequences assigned  
2610 (98.6%) exact matches, in which:  
2582 unique CDR3  
13 unique J



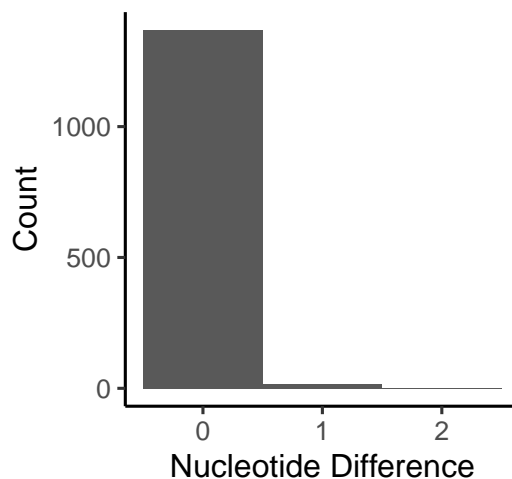
### TRBV5-5\*ap01

1419 sequences assigned  
1415 (99.7%) exact matches, in which:  
1406 unique CDR3  
13 unique J



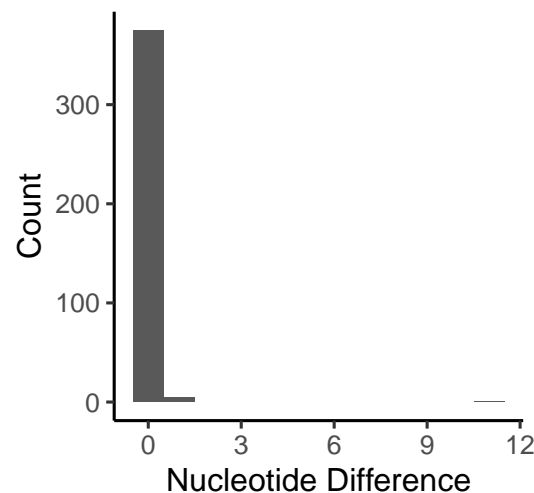
### TRBV5-8\*ap01

1386 sequences assigned  
1369 (98.8%) exact matches, in which:  
1358 unique CDR3  
13 unique J



### TRBV6-7\*ap01

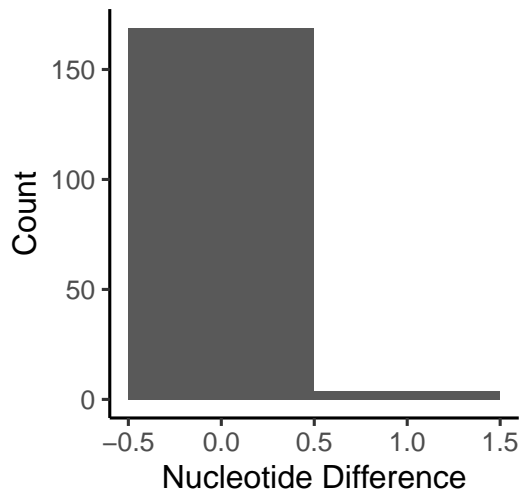
381 sequences assigned  
375 (98.4%) exact matches, in which:  
369 unique CDR3  
13 unique J





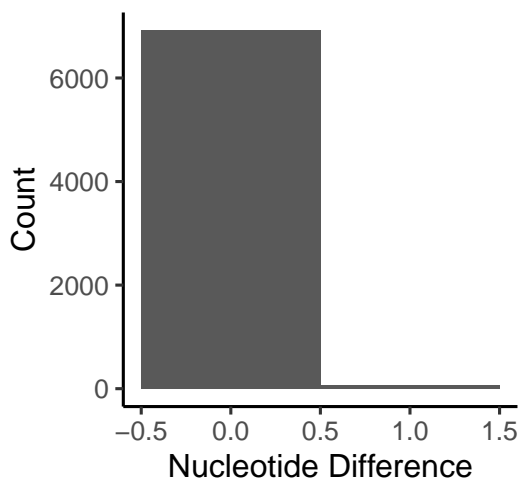
### TRBV6–8\*ap01

173 sequences assigned  
169 (97.7%) exact matches, in which:  
163 unique CDR3  
13 unique J



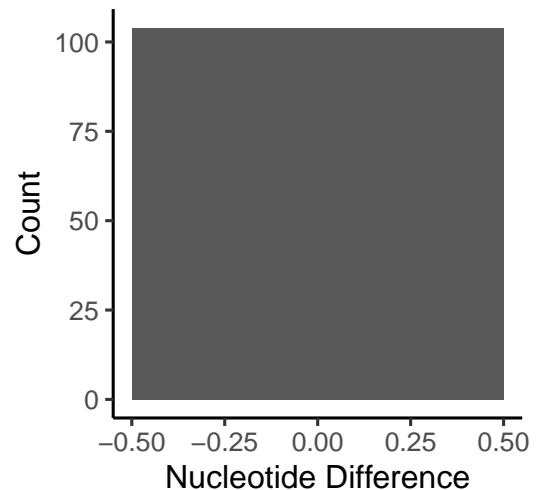
### TRBV6–56\*ap01

6993 sequences assigned  
6919 (98.9%) exact matches, in which:  
6771 unique CDR3  
13 unique J



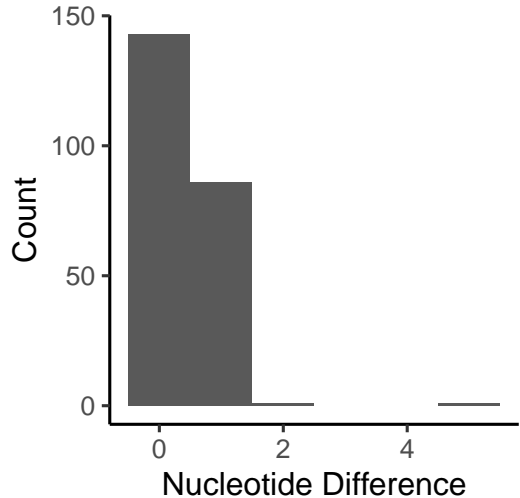
### TRBV7–1\*ap01\_G291C\_T

104 sequences assigned  
104 (100%) exact matches, in which:  
104 unique CDR3  
12 unique J



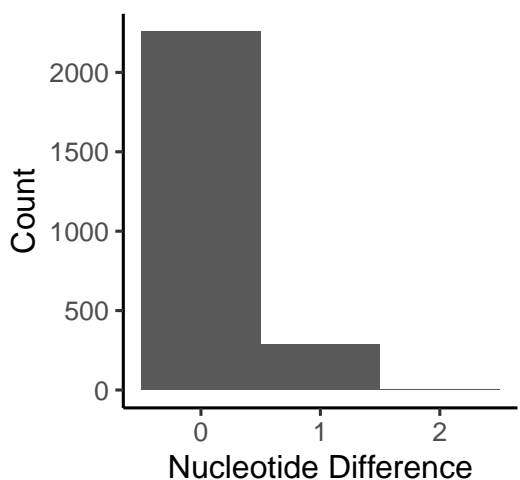
### TRBV6–9\*ap01

231 sequences assigned  
143 (61.9%) exact matches, in which:  
136 unique CDR3  
13 unique J



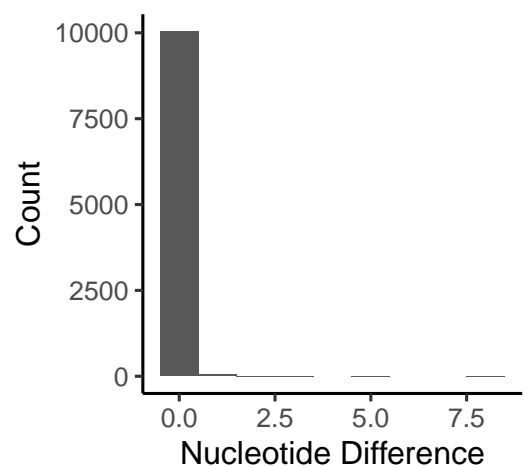
### TRBV6–56\*ap02

2548 sequences assigned  
2256 (88.5%) exact matches, in which:  
2203 unique CDR3  
13 unique J



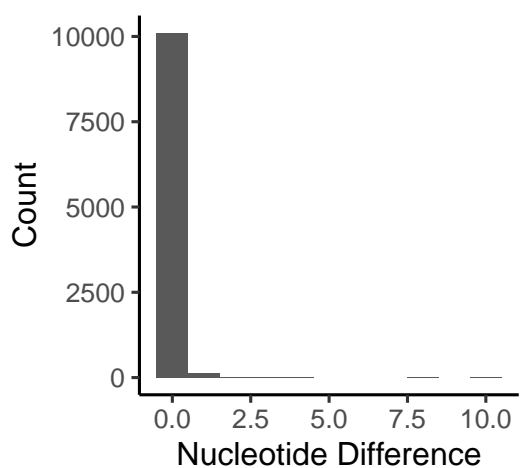
### TRBV7–2\*ap01

10092 sequences assigned  
10039 (99.5%) exact matches, in which:  
9935 unique CDR3  
13 unique J



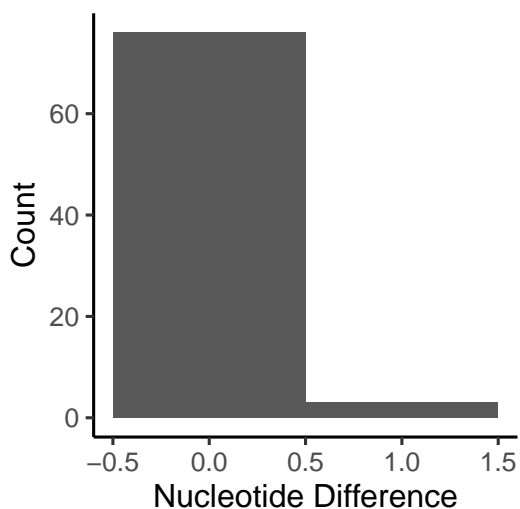
### TRBV6–23\*ap01

10253 sequences assigned  
10107 (98.6%) exact matches, in which:  
9853 unique CDR3  
13 unique J



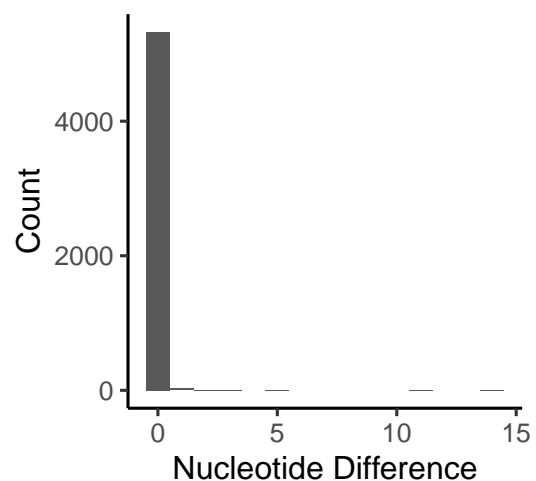
### TRBV7–1\*ap01\_G291C\_T

79 sequences assigned  
76 (96.2%) exact matches, in which:  
76 unique CDR3  
11 unique J



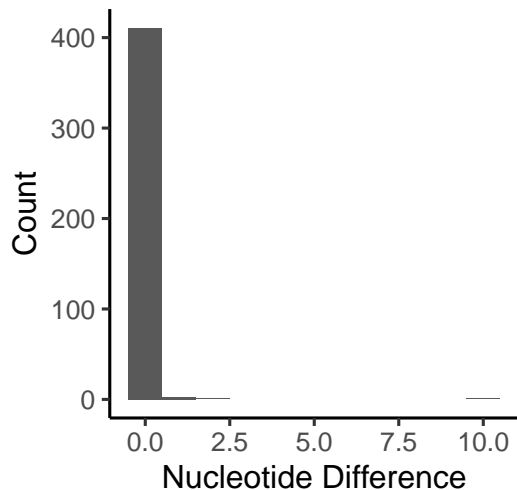
### TRBV7–3\*ap01

5359 sequences assigned  
5325 (99.4%) exact matches, in which:  
5279 unique CDR3  
13 unique J



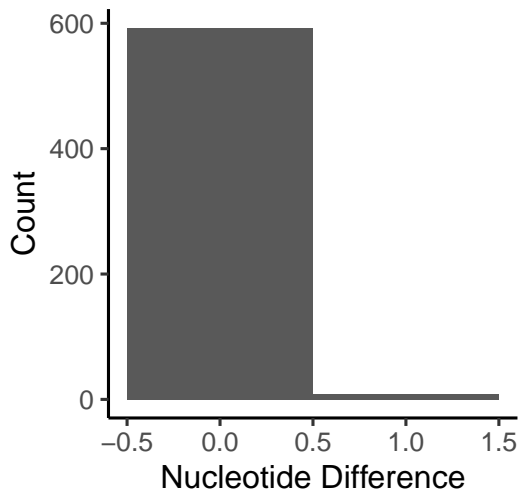
### TRBV7-4\*ap01

416 sequences assigned  
411 (98.8%) exact matches, in which:  
407 unique CDR3  
13 unique J



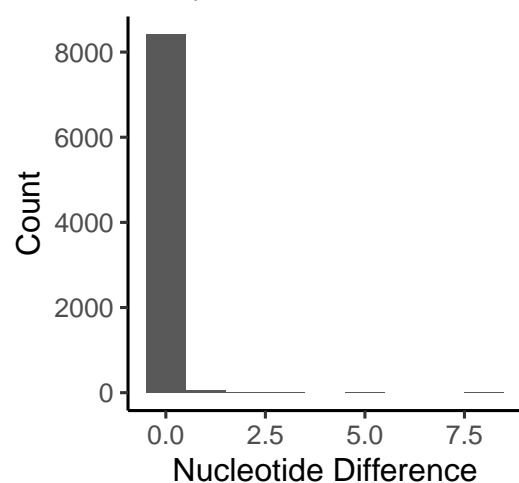
### TRBV7-7\*ap01\_C315T

602 sequences assigned  
593 (98.5%) exact matches, in which:  
586 unique CDR3  
13 unique J



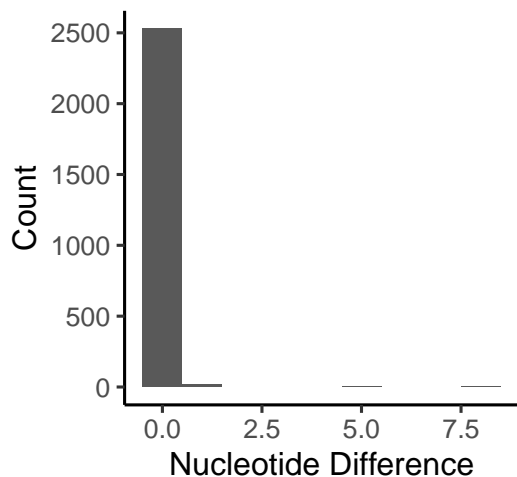
### TRBV7-9\*ap01

8473 sequences assigned  
8415 (99.3%) exact matches, in which:  
8300 unique CDR3  
13 unique J



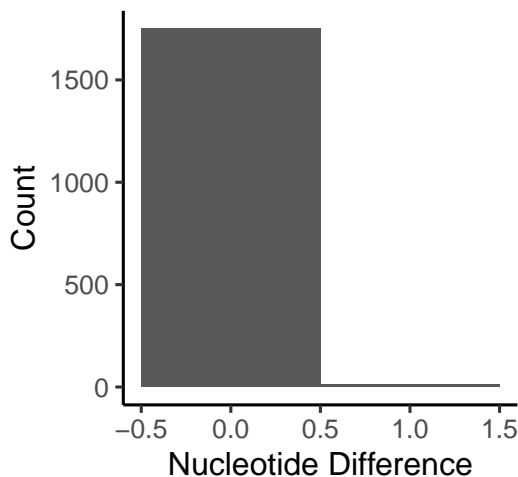
### TRBV7-6\*ap01

2549 sequences assigned  
2529 (99.2%) exact matches, in which:  
2481 unique CDR3  
13 unique J



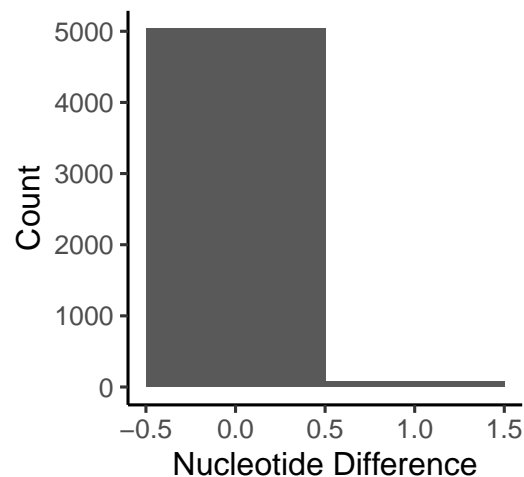
### TRBV7-8\*ap01

1764 sequences assigned  
1750 (99.2%) exact matches, in which:  
1727 unique CDR3  
13 unique J



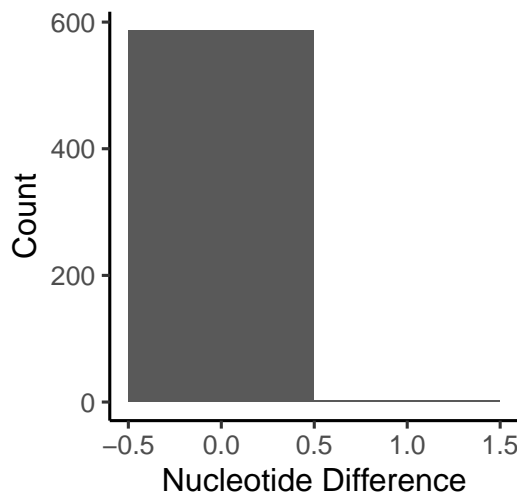
### TRBV29-1\*ap01

5113 sequences assigned  
5036 (98.5%) exact matches, in which:  
4890 unique CDR3  
13 unique J



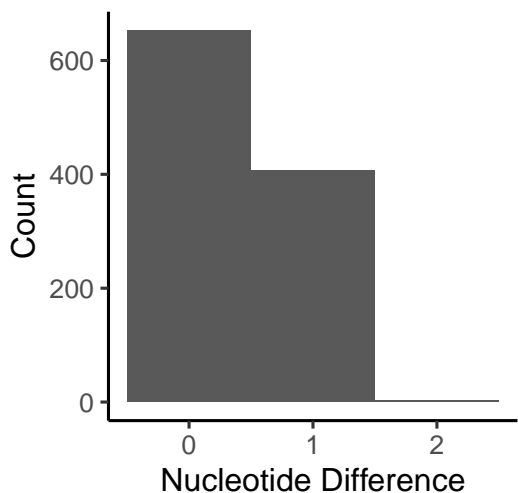
### TRBV7-7\*ap01

590 sequences assigned  
587 (99.5%) exact matches, in which:  
579 unique CDR3  
13 unique J



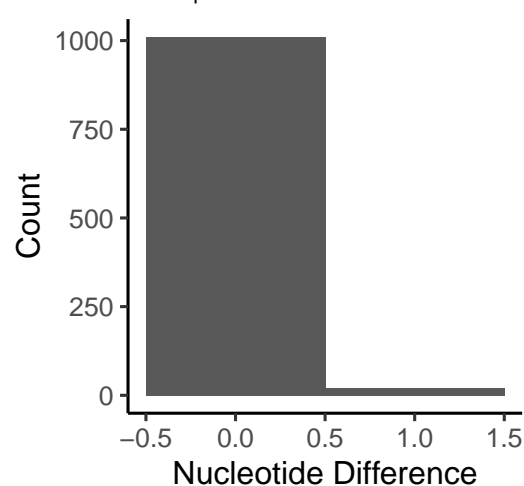
### TRBV7-8\*ap03

1061 sequences assigned  
653 (61.5%) exact matches, in which:  
644 unique CDR3  
13 unique J

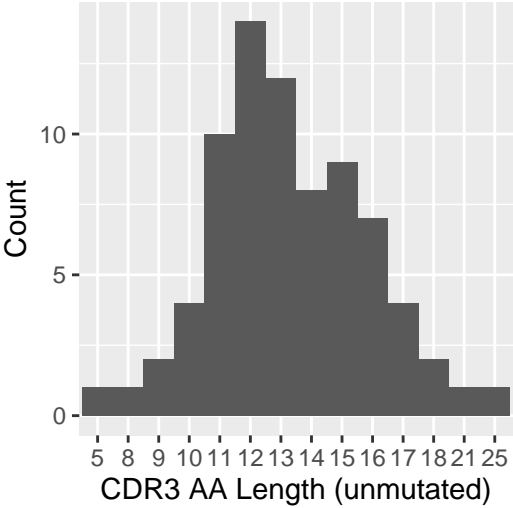


### TRBV29-1\*ap02

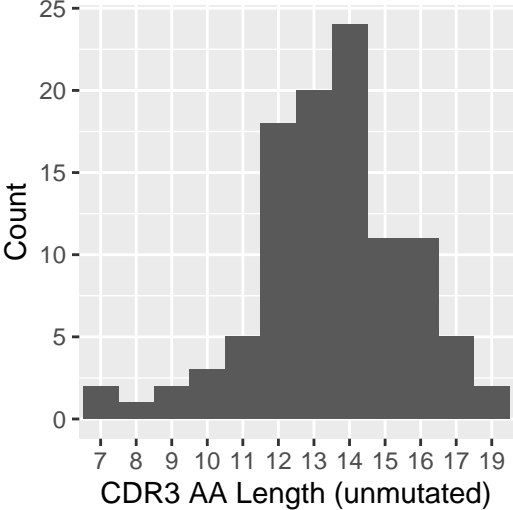
1030 sequences assigned  
1010 (98.1%) exact matches, in which:  
984 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



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



TRBV7-7\*ap01\_C315T

