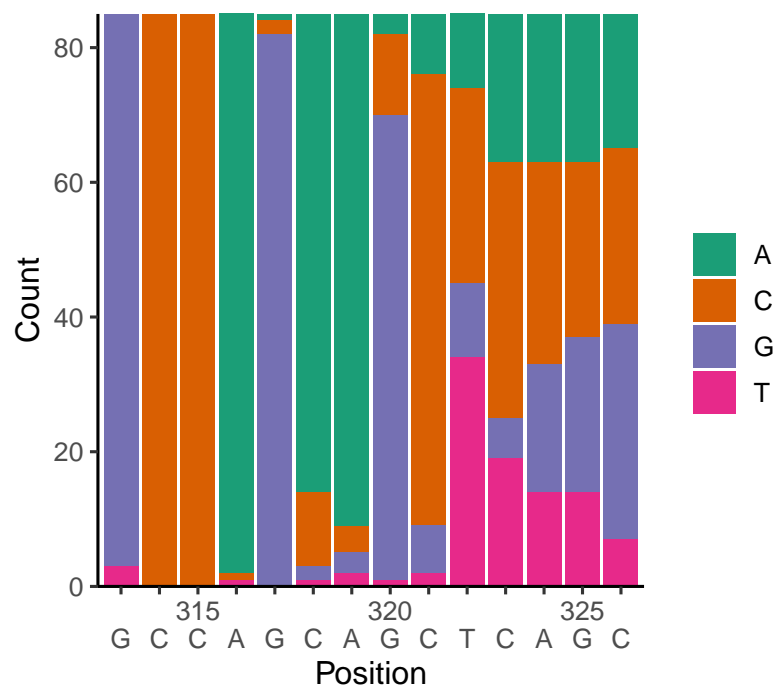
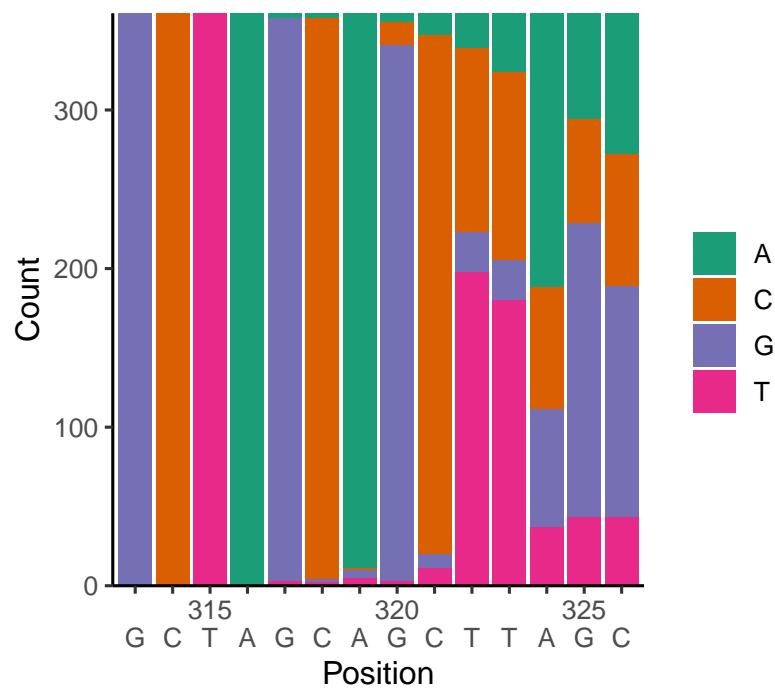


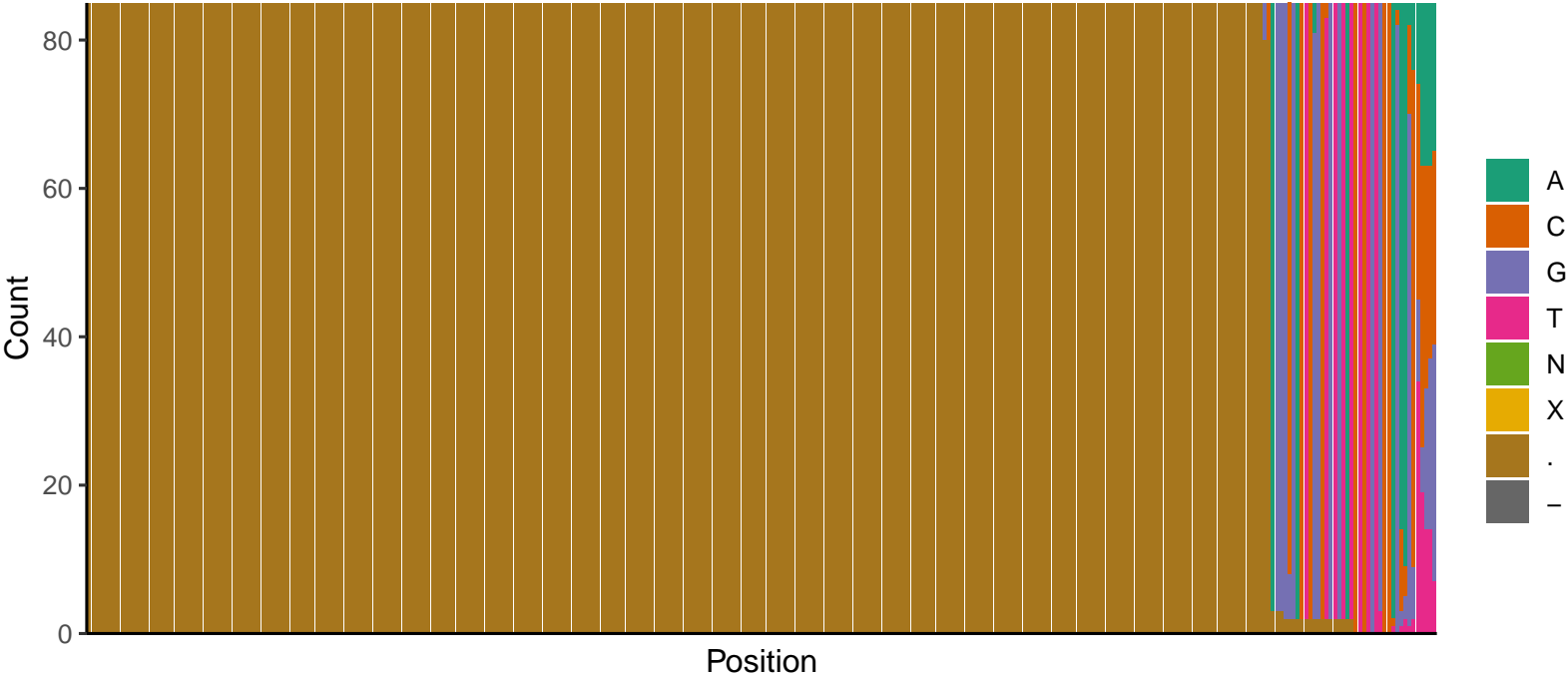
Gene TRBV7-1\*ap01\_T296C



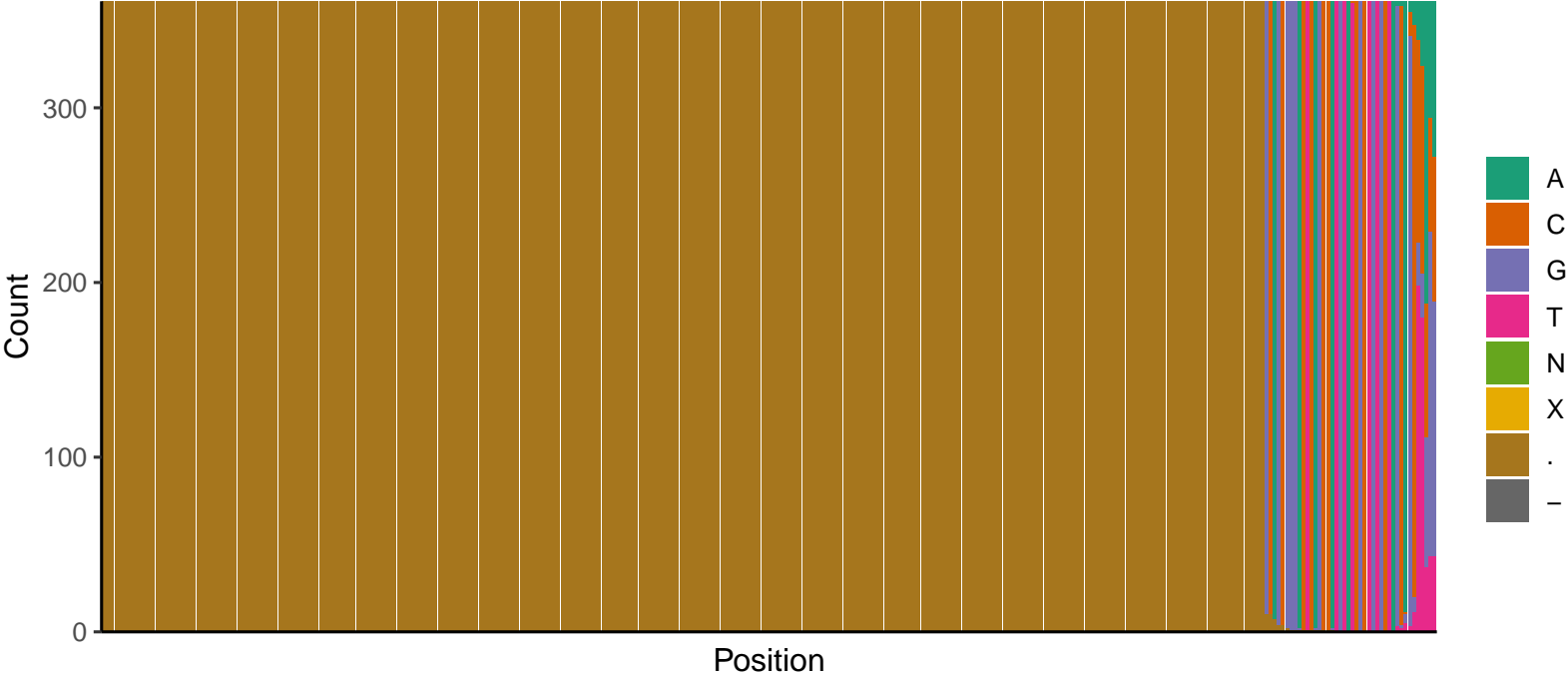
Gene TRBV7-7\*ap01\_C315T



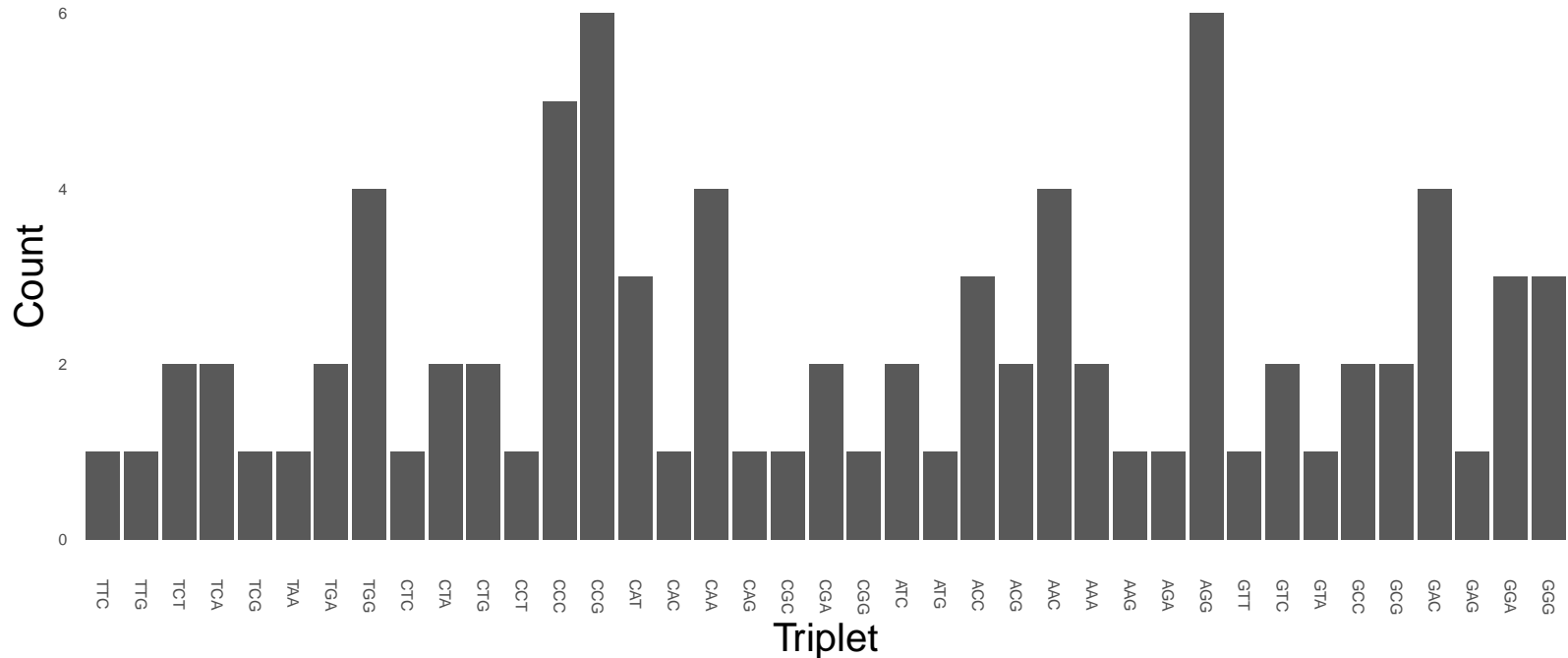
Gene TRBV7-1\*ap01\_T296C



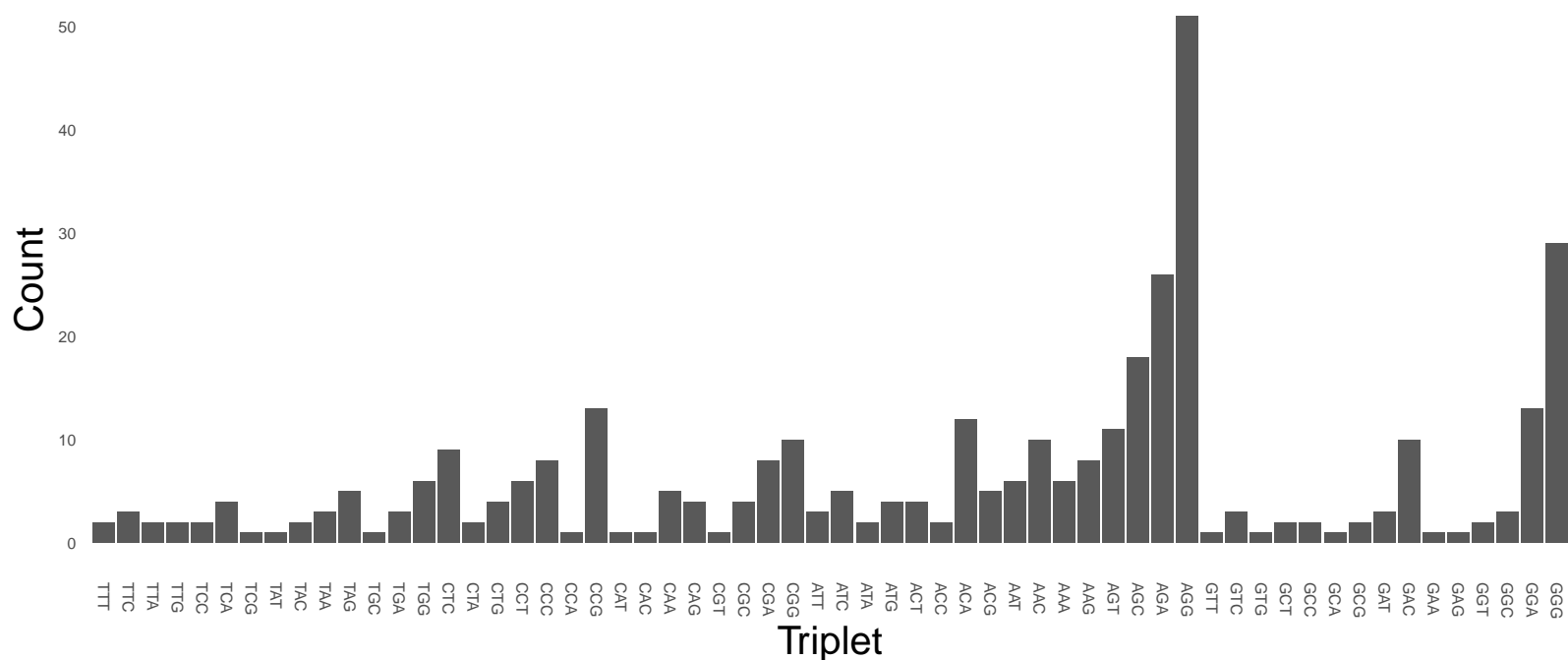
Gene TRBV7-7\*ap01\_C315T



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

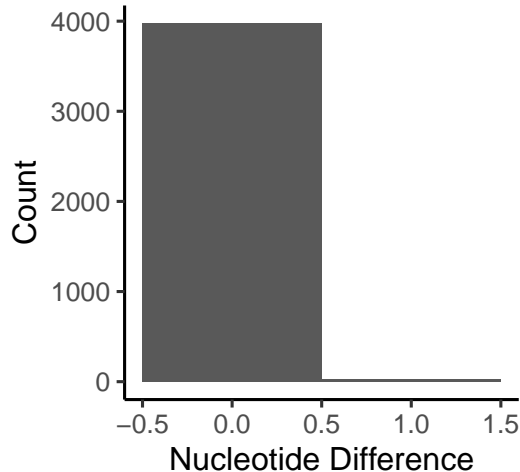


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



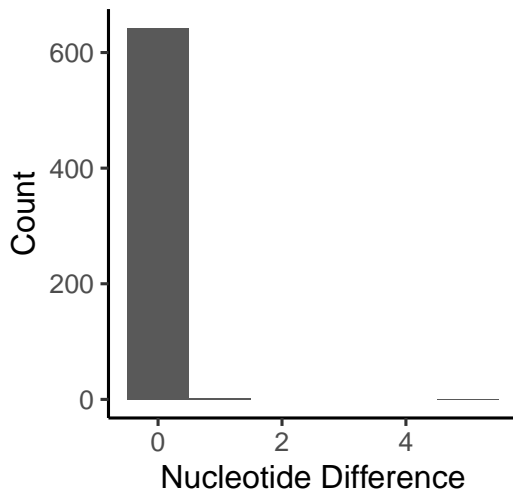
### TRBV20-1\*ap01

4005 sequences assigned  
3975 (99.3%) exact matches, in which:  
3944 unique CDR3  
13 unique J



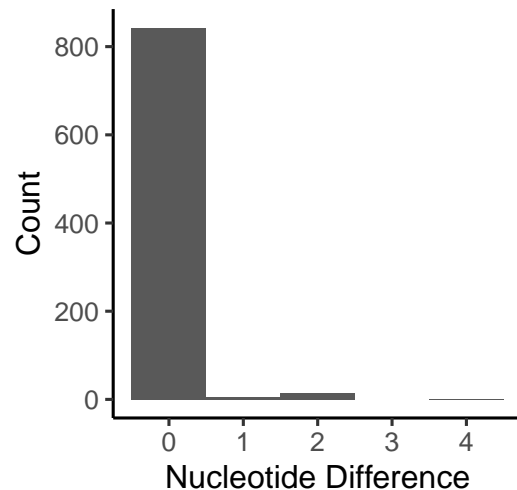
### TRBV10-2\*ap01

646 sequences assigned  
643 (99.5%) exact matches, in which:  
632 unique CDR3  
13 unique J



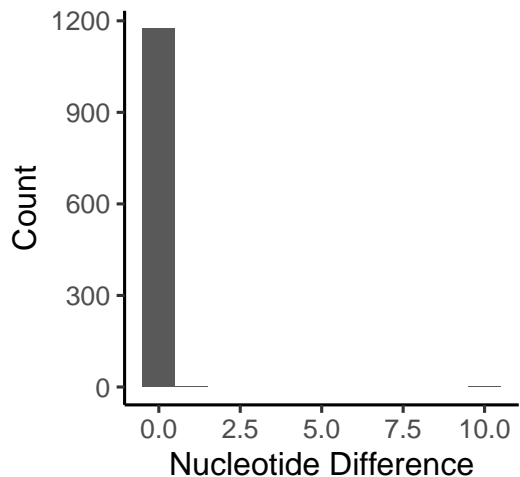
### TRBV13\*ap01

865 sequences assigned  
843 (97.5%) exact matches, in which:  
827 unique CDR3  
13 unique J



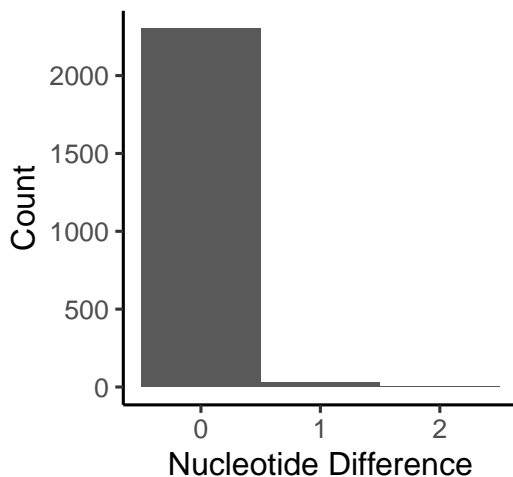
### TRBV10-1\*ap01

1178 sequences assigned  
1174 (99.7%) exact matches, in which:  
1149 unique CDR3  
13 unique J



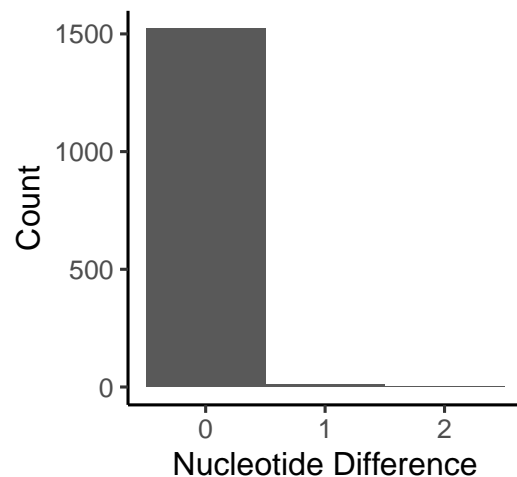
### TRBV10-3\*ap01

2328 sequences assigned  
2301 (98.8%) exact matches, in which:  
2267 unique CDR3  
13 unique J



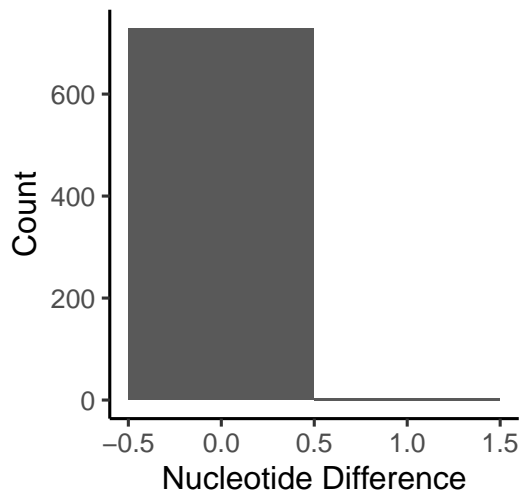
### TRBV14\*ap01

1533 sequences assigned  
1522 (99.3%) exact matches, in which:  
1502 unique CDR3  
13 unique J



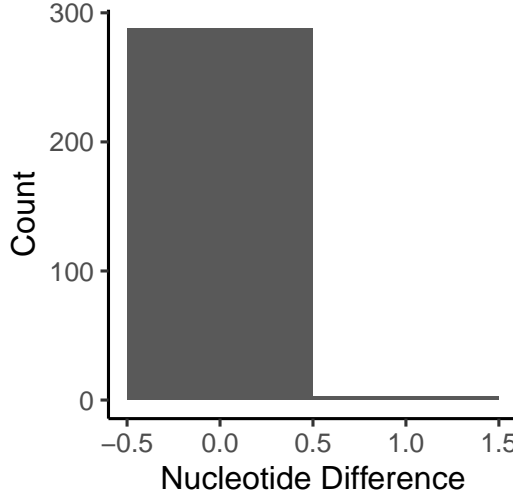
### TRBV20-1\*ap02

733 sequences assigned  
729 (99.5%) exact matches, in which:  
722 unique CDR3  
13 unique J



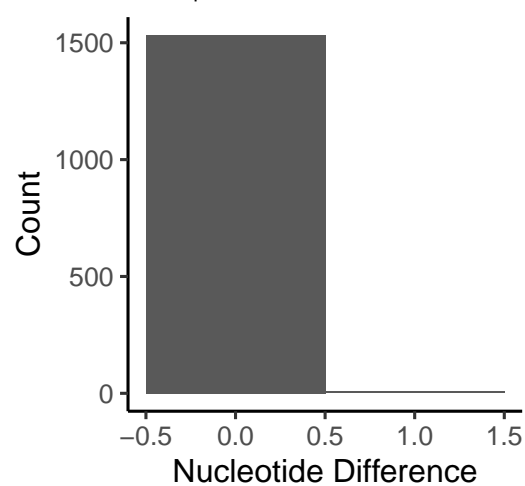
### TRBV1\*ap01

291 sequences assigned  
288 (99%) exact matches, in which:  
281 unique CDR3  
13 unique J



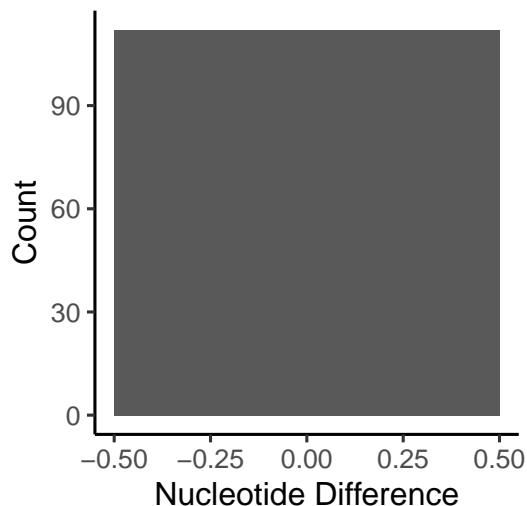
### TRBV15\*ap02

1541 sequences assigned  
1533 (99.5%) exact matches, in which:  
1497 unique CDR3  
13 unique J



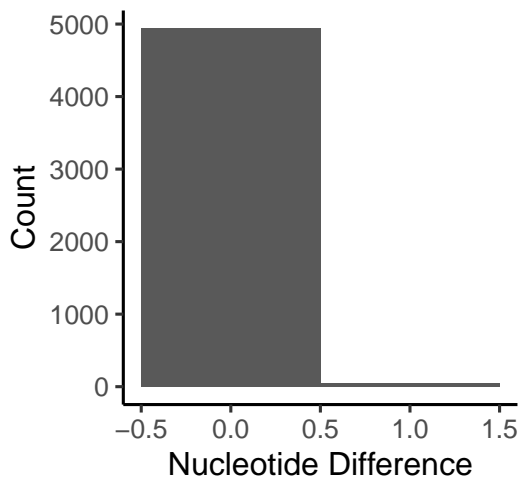
### TRBV16\*ap01

112 sequences assigned  
112 (100%) exact matches, in which:  
112 unique CDR3  
13 unique J



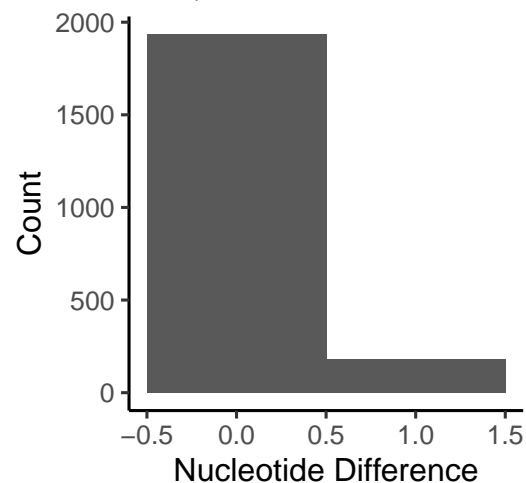
### TRBV2\*ap01

4989 sequences assigned  
4940 (99%) exact matches, in which:  
4870 unique CDR3  
13 unique J



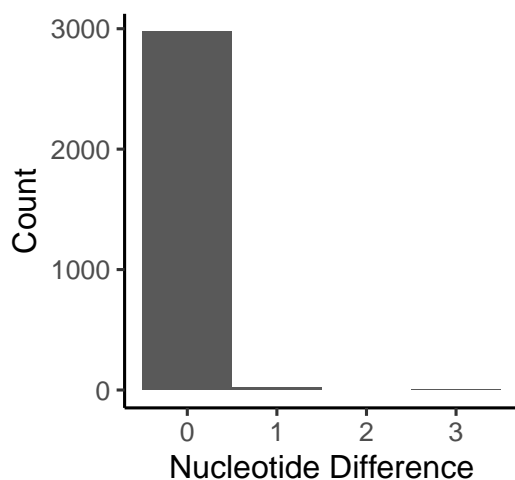
### TRBV30\*ap01

2114 sequences assigned  
1934 (91.5%) exact matches, in which:  
1901 unique CDR3  
13 unique J



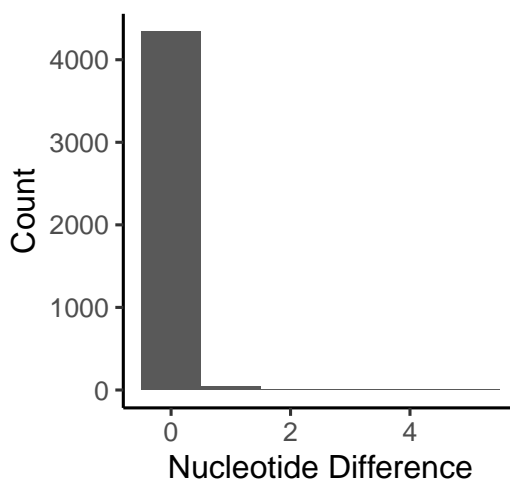
### TRBV18\*ap01

2995 sequences assigned  
2975 (99.3%) exact matches, in which:  
2946 unique CDR3  
13 unique J



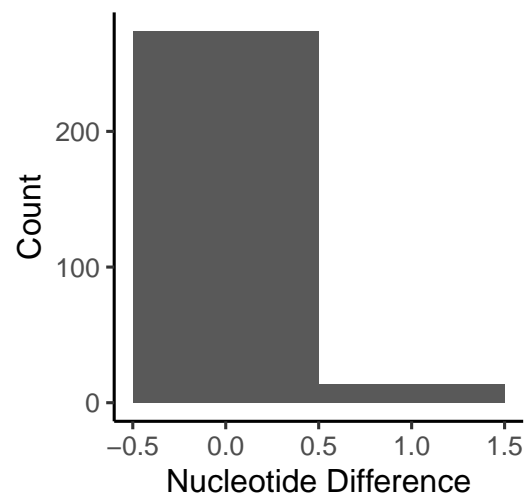
### TRBV27\*ap01

4385 sequences assigned  
4339 (99%) exact matches, in which:  
4289 unique CDR3  
13 unique J



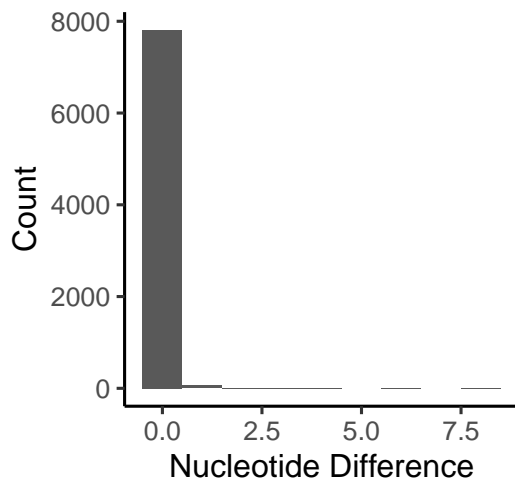
### TRBV30\*ap03

288 sequences assigned  
274 (95.1%) exact matches, in which:  
268 unique CDR3  
13 unique J



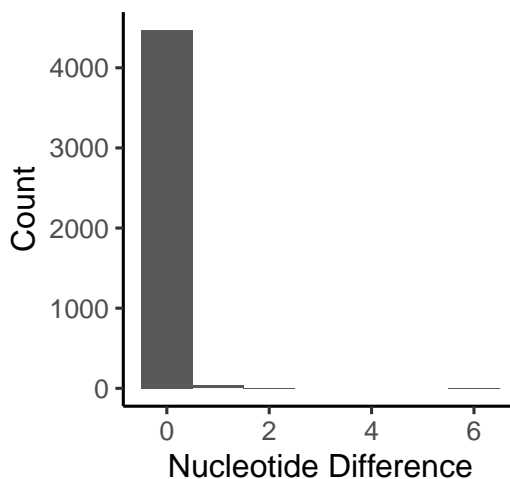
### TRBV19\*ap01

7877 sequences assigned  
7809 (99.1%) exact matches, in which:  
7730 unique CDR3  
13 unique J



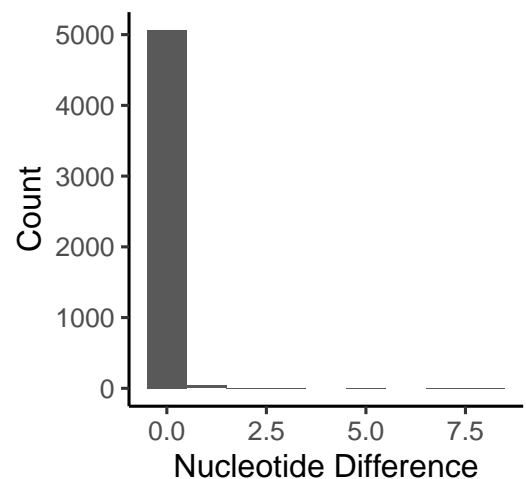
### TRBV28\*ap01

4510 sequences assigned  
4471 (99.1%) exact matches, in which:  
4392 unique CDR3  
13 unique J



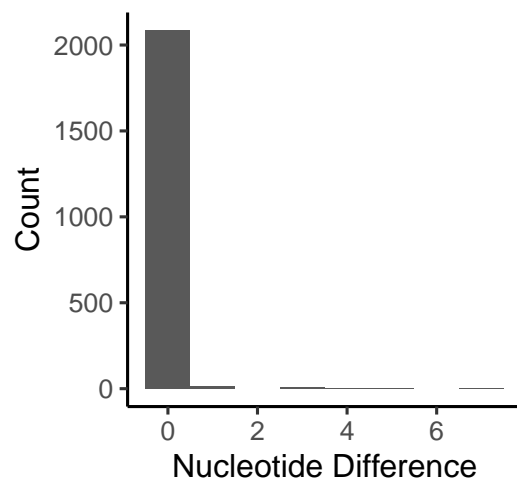
### TRBV9\*ap01

5112 sequences assigned  
5065 (99.1%) exact matches, in which:  
5014 unique CDR3  
13 unique J



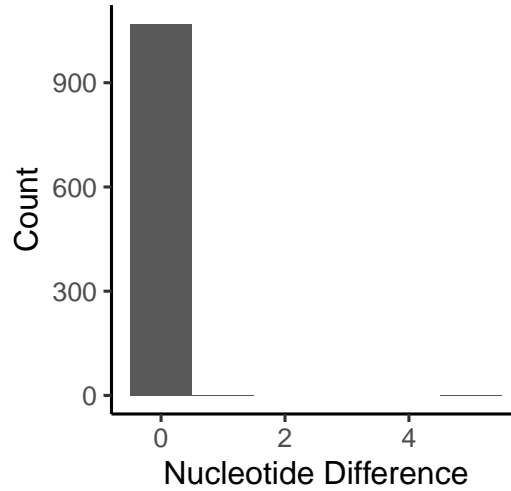
### TRBV21-1\*ap01

2110 sequences assigned  
2085 (98.8%) exact matches, in which:  
2066 unique CDR3  
13 unique J



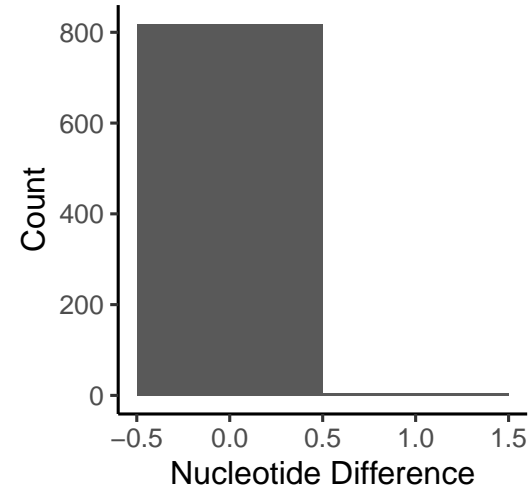
### TRBV11-3\*ap01

1072 sequences assigned  
1070 (99.8%) exact matches, in which:  
1064 unique CDR3  
13 unique J



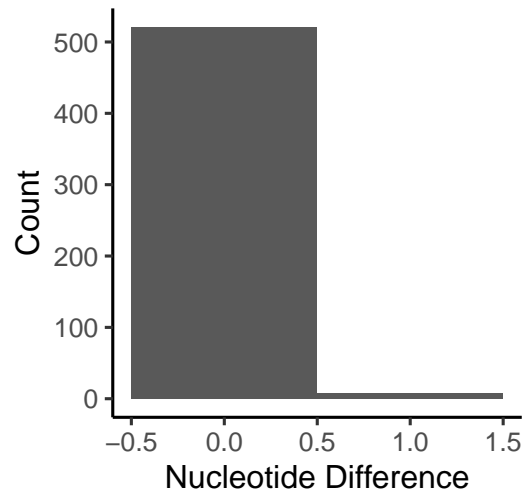
### TRBV12-5\*ap01

825 sequences assigned  
819 (99.3%) exact matches, in which:  
809 unique CDR3  
13 unique J



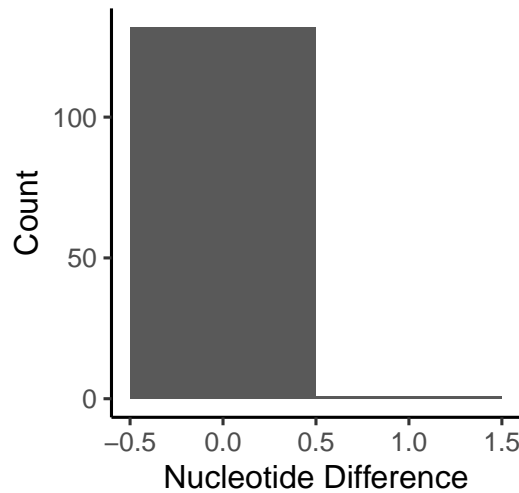
### TRBV11-1\*ap01

529 sequences assigned  
521 (98.5%) exact matches, in which:  
518 unique CDR3  
13 unique J



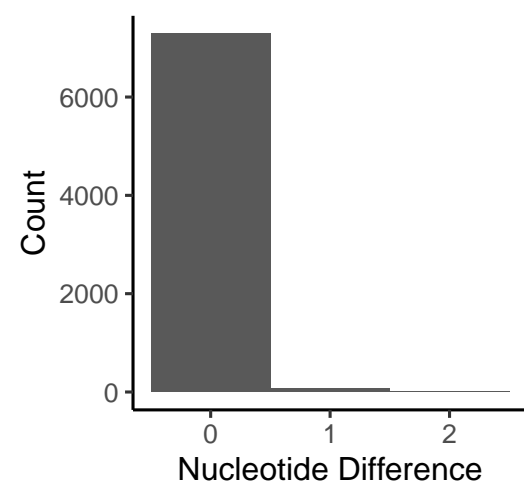
### TRBV12-1\*ap01

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



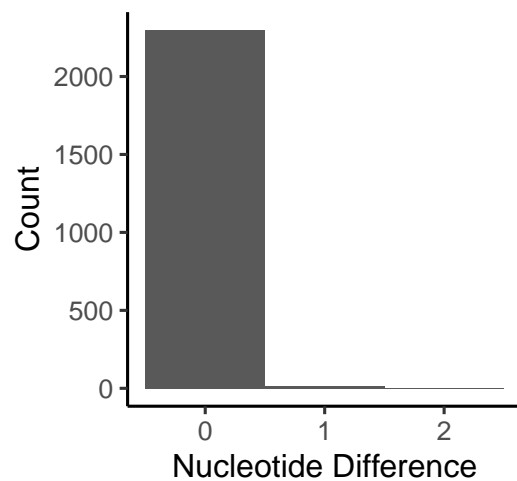
### TRBV12-34\*ap01

7369 sequences assigned  
7288 (98.9%) exact matches, in which:  
7169 unique CDR3  
13 unique J



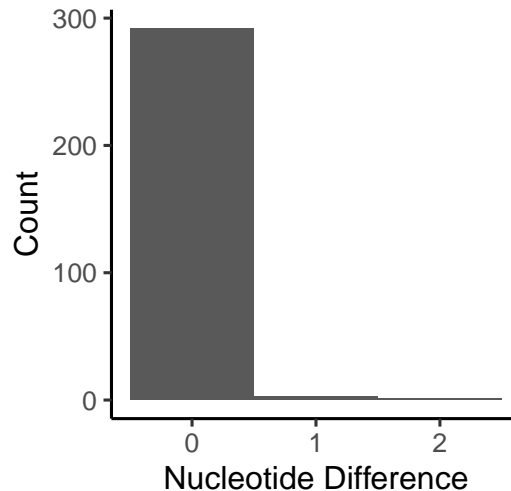
### TRBV11-2\*ap01

2315 sequences assigned  
2298 (99.3%) exact matches, in which:  
2284 unique CDR3  
13 unique J



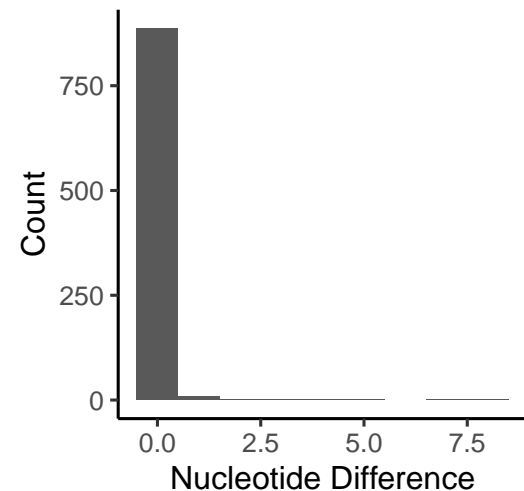
### TRBV12-2\*ap01

296 sequences assigned  
292 (98.6%) exact matches, in which:  
286 unique CDR3  
13 unique J



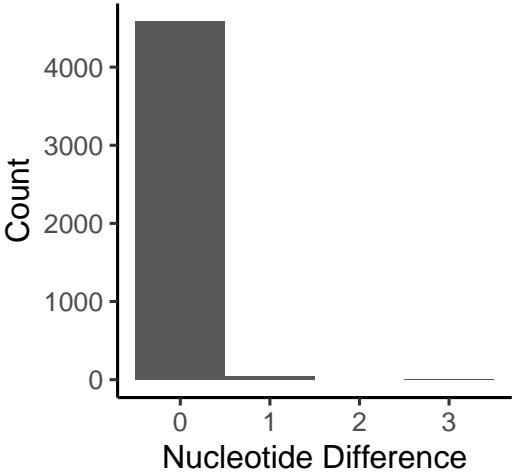
### TRBV23-1\*ap01

901 sequences assigned  
887 (98.4%) exact matches, in which:  
864 unique CDR3  
13 unique J



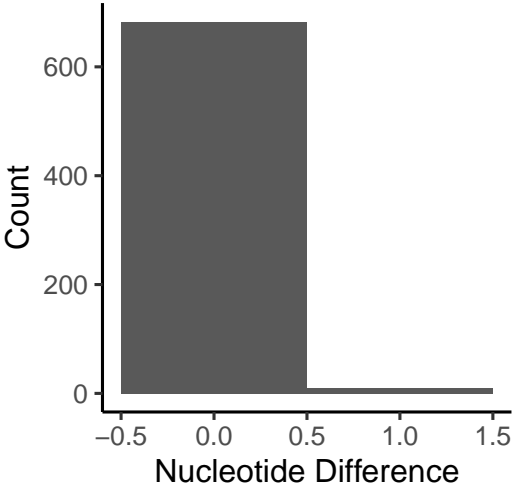
TRBV3-12\*ap01

4628 sequences assigned  
4585 (99.1%) exact matches, in which:  
4536 unique CDR3  
13 unique J



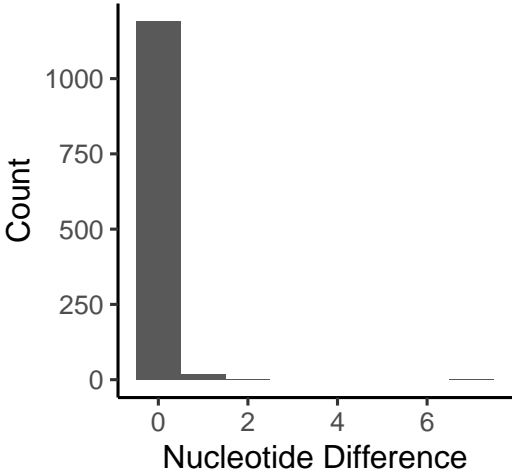
TRBV4-2\*ap01

693 sequences assigned  
683 (98.6%) exact matches, in which:  
667 unique CDR3  
13 unique J



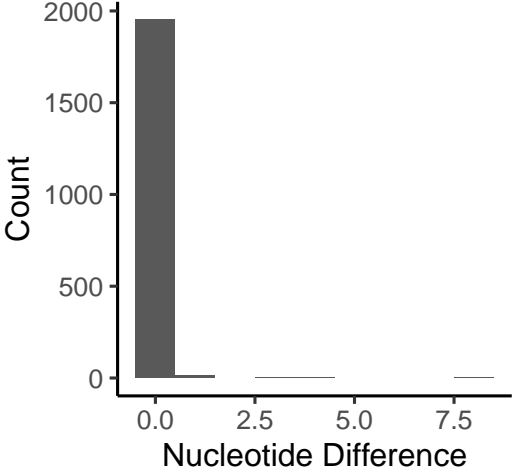
TRBV25-1\*ap01

1209 sequences assigned  
1190 (98.4%) exact matches, in which:  
1165 unique CDR3  
13 unique J



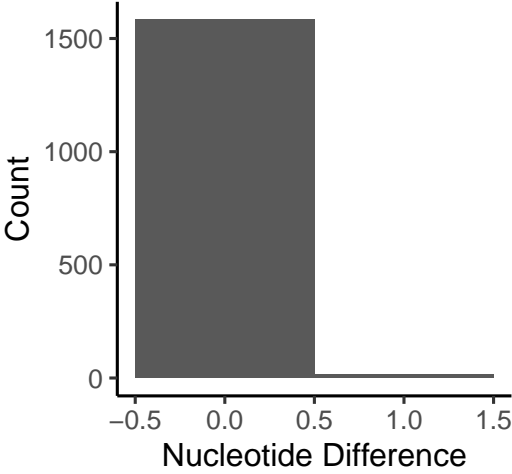
TRBV24-1\*ap01

1974 sequences assigned  
1952 (98.9%) exact matches, in which:  
1912 unique CDR3  
13 unique J



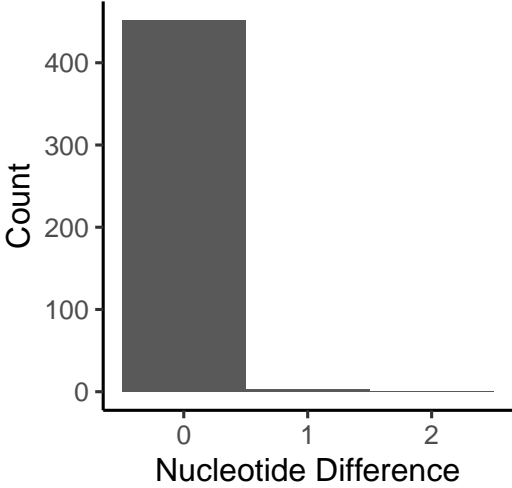
TRBV4-3\*ap01

1600 sequences assigned  
1583 (98.9%) exact matches, in which:  
1550 unique CDR3  
13 unique J



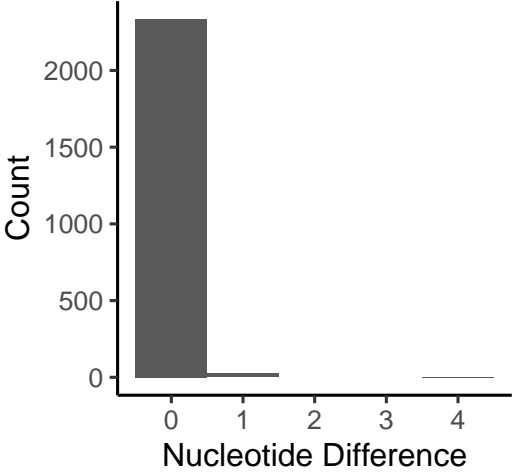
TRBV5-3\*ap01

456 sequences assigned  
452 (99.1%) exact matches, in which:  
444 unique CDR3  
13 unique J



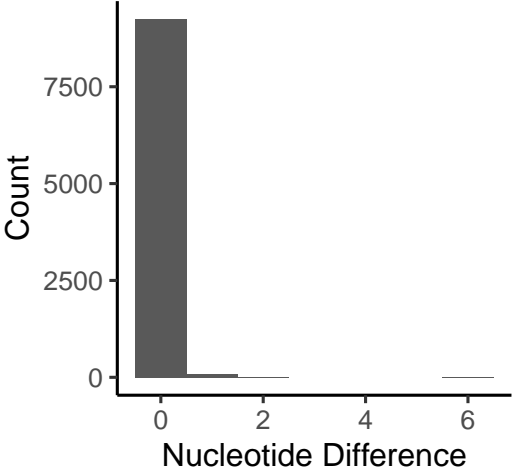
TRBV4-1\*ap01

2361 sequences assigned  
2335 (98.9%) exact matches, in which:  
2286 unique CDR3  
13 unique J



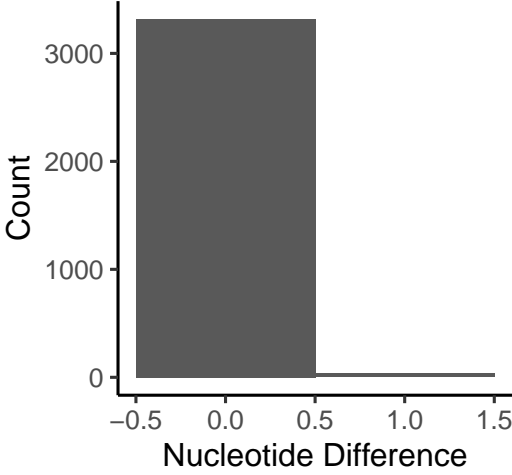
TRBV5-1\*ap01

9327 sequences assigned  
9247 (99.1%) exact matches, in which:  
9053 unique CDR3  
13 unique J



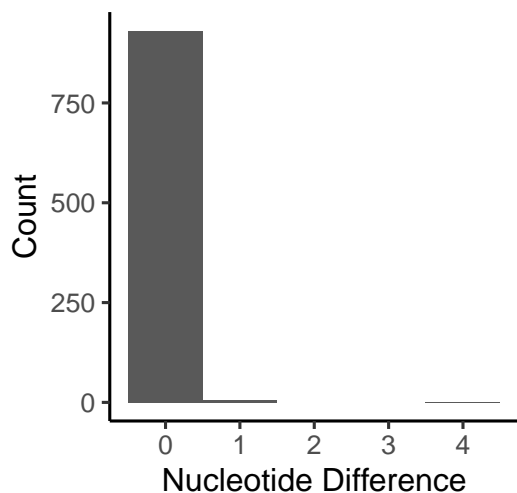
TRBV5-4\*ap01

3354 sequences assigned  
3318 (98.9%) exact matches, in which:  
3260 unique CDR3  
13 unique J



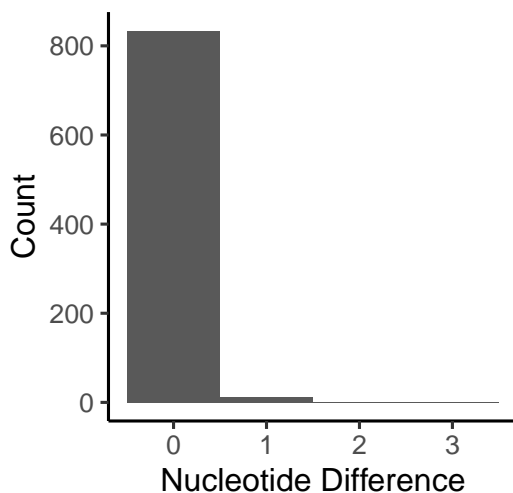
### TRBV5-5\*ap01

938 sequences assigned  
931 (99.3%) exact matches, in which:  
920 unique CDR3  
13 unique J



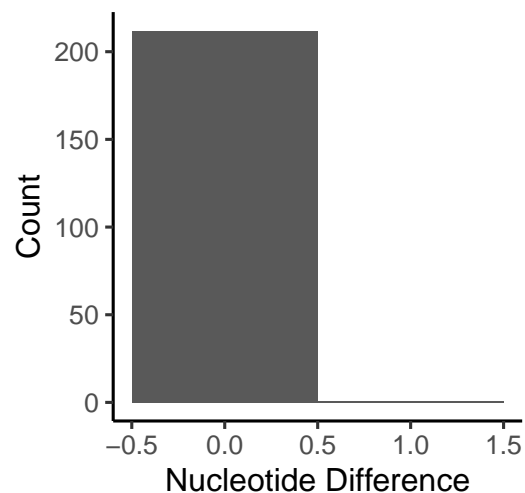
### TRBV5-8\*ap01

848 sequences assigned  
834 (98.3%) exact matches, in which:  
825 unique CDR3  
13 unique J



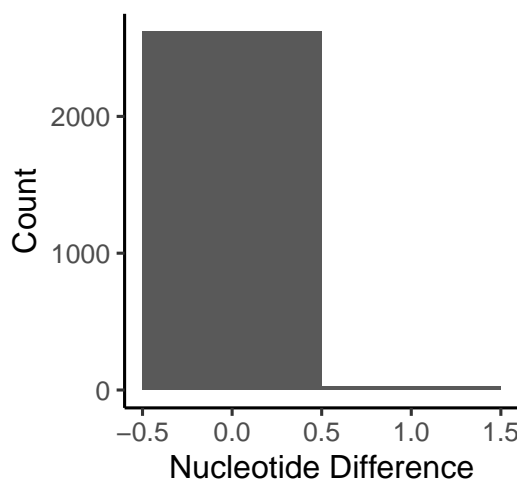
### TRBV6-7\*ap01

213 sequences assigned  
212 (99.5%) exact matches, in which:  
207 unique CDR3  
13 unique J



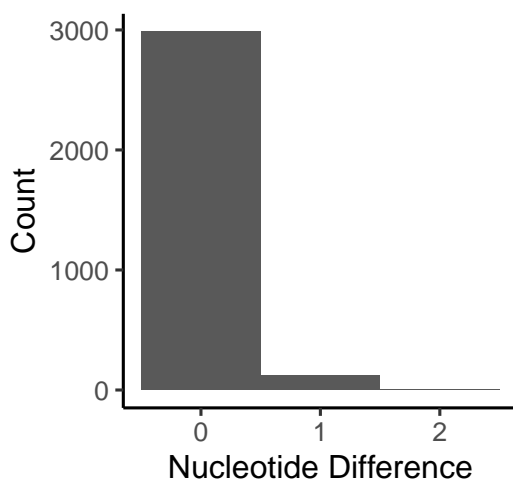
### TRBV5-6\*ap01

2648 sequences assigned  
2619 (98.9%) exact matches, in which:  
2545 unique CDR3  
13 unique J



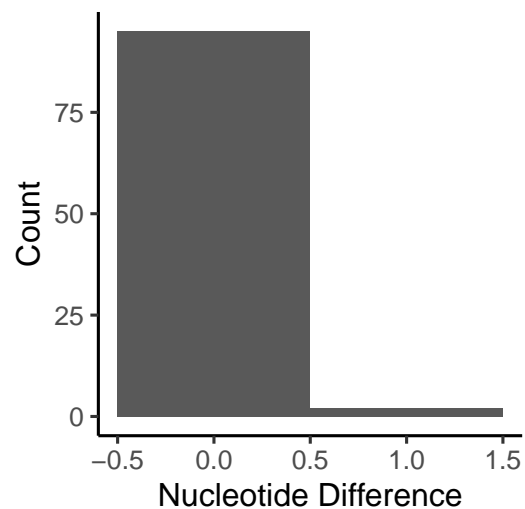
### TRBV6-1\*ap01

3105 sequences assigned  
2985 (96.1%) exact matches, in which:  
2923 unique CDR3  
13 unique J



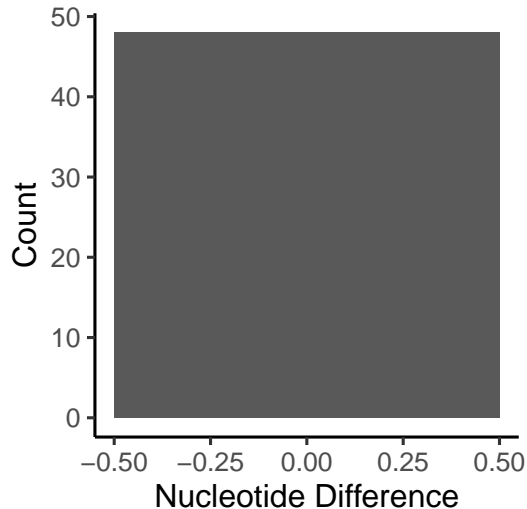
### TRBV6-8\*ap01

97 sequences assigned  
95 (97.9%) exact matches, in which:  
94 unique CDR3  
13 unique J



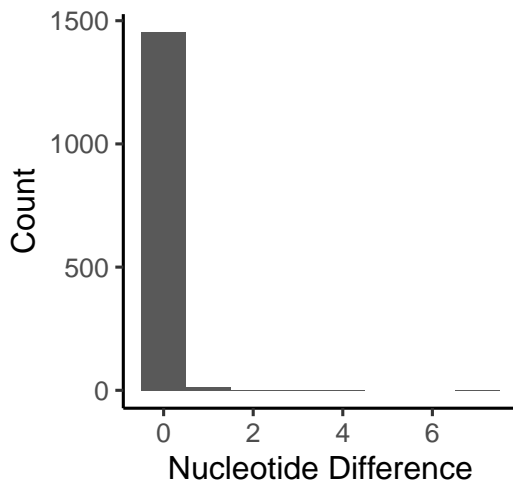
### TRBV5-7\*ap01

48 sequences assigned  
48 (100%) exact matches, in which:  
48 unique CDR3  
12 unique J



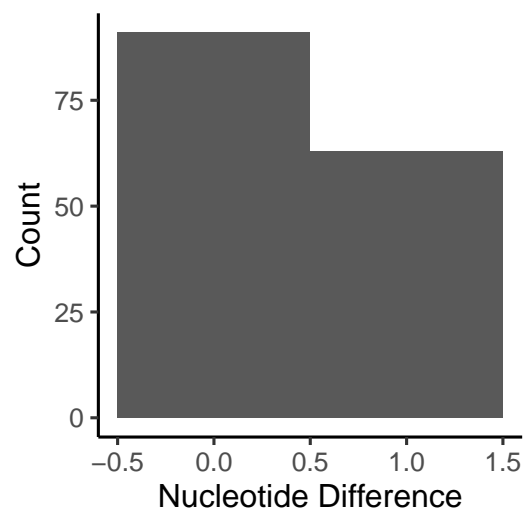
### TRBV6-4\*ap01

1472 sequences assigned  
1454 (98.8%) exact matches, in which:  
1434 unique CDR3  
13 unique J



### TRBV6-9\*ap01

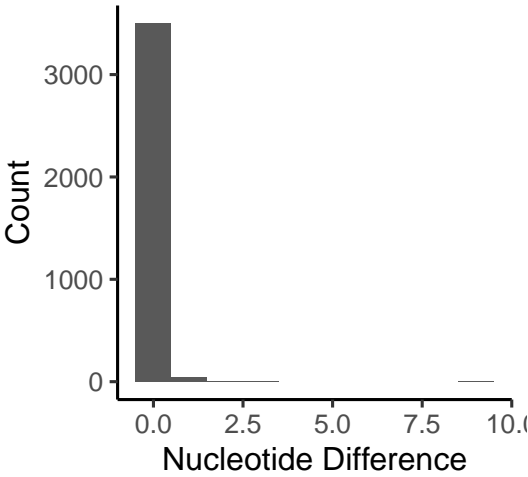
154 sequences assigned  
91 (59.1%) exact matches, in which:  
89 unique CDR3  
13 unique J





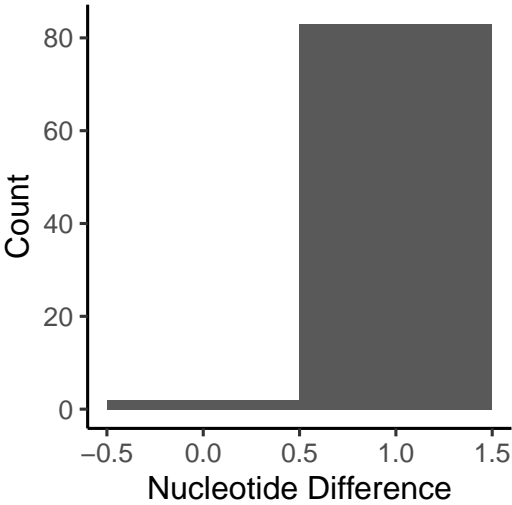
TRBV6-23\*ap01

3545 sequences assigned  
3500 (98.7%) exact matches, in which:  
3418 unique CDR3  
13 unique J



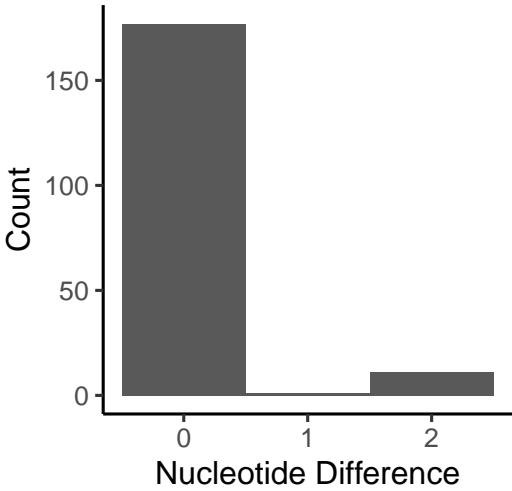
TRBV7-1\*ap01\_T296C

85 sequences assigned  
2 (2.4%) exact matches, in which:  
2 unique CDR3  
1 unique J



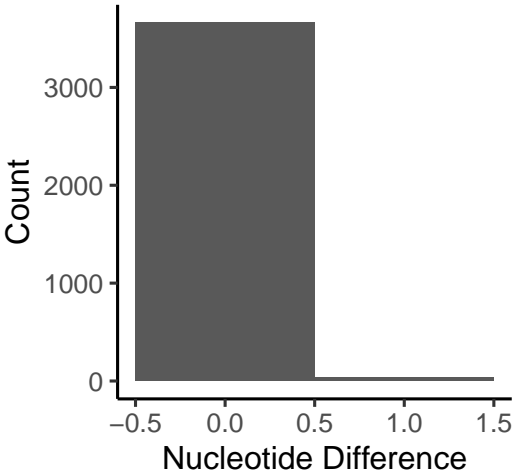
TRBV7-4\*ap01

189 sequences assigned  
177 (93.7%) exact matches, in which:  
172 unique CDR3  
13 unique J



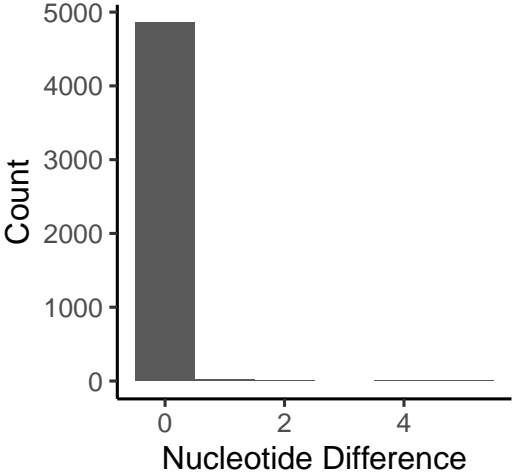
TRBV6-56\*ap01

3699 sequences assigned  
3661 (99%) exact matches, in which:  
3567 unique CDR3  
13 unique J



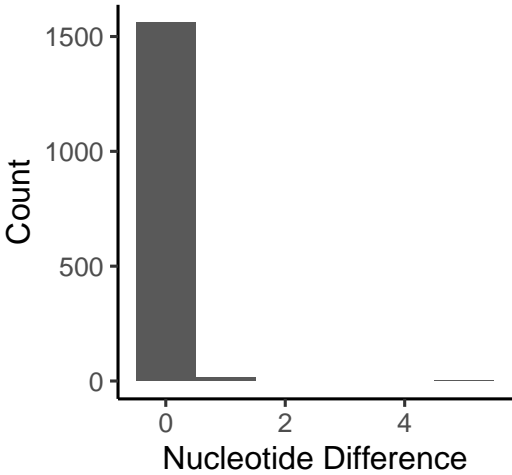
TRBV7-2\*ap01

4886 sequences assigned  
4856 (99.4%) exact matches, in which:  
4795 unique CDR3  
13 unique J



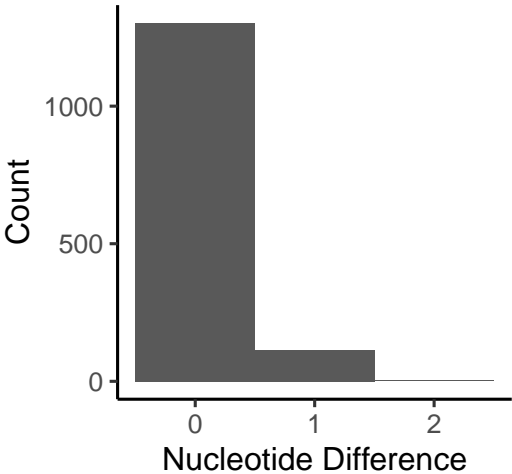
TRBV7-6\*ap01

1577 sequences assigned  
1560 (98.9%) exact matches, in which:  
1537 unique CDR3  
13 unique J



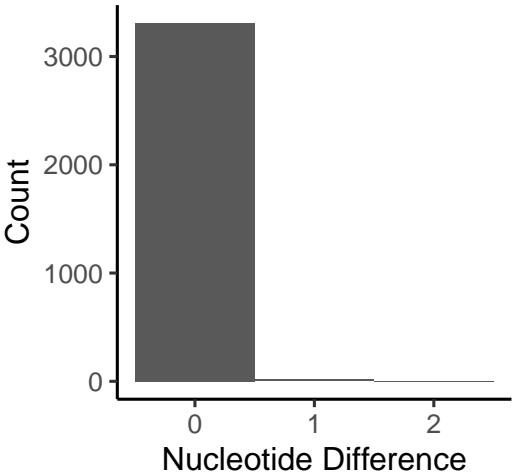
TRBV6-56\*ap02

1418 sequences assigned  
1302 (91.8%) exact matches, in which:  
1273 unique CDR3  
13 unique J



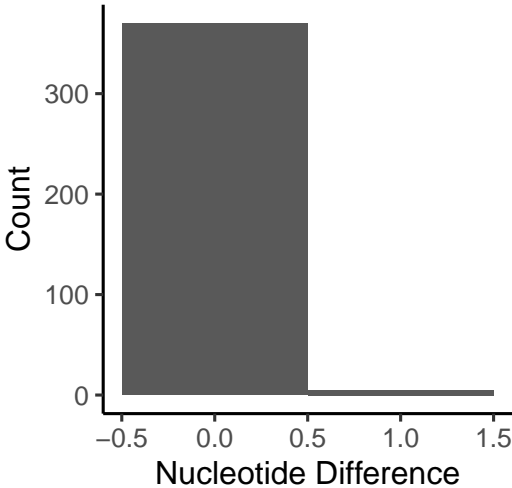
TRBV7-3\*ap01

3326 sequences assigned  
3309 (99.5%) exact matches, in which:  
3273 unique CDR3  
13 unique J



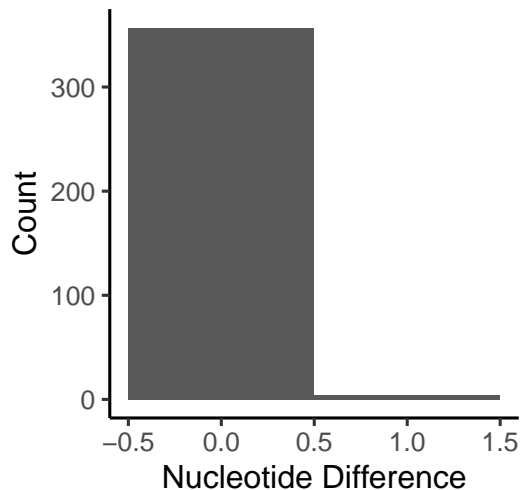
TRBV7-7\*ap01

375 sequences assigned  
370 (98.7%) exact matches, in which:  
363 unique CDR3  
13 unique J



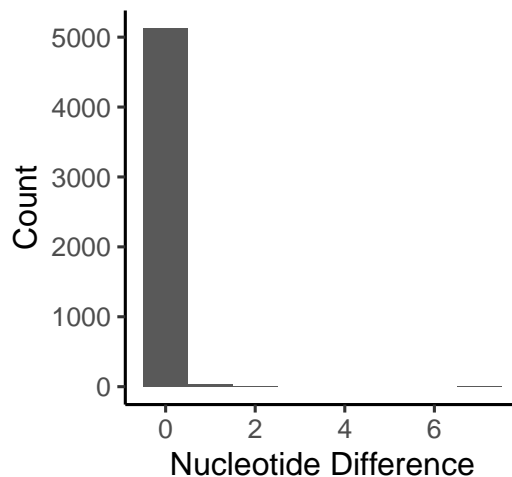
### TRBV7-7\*ap01\_C315T

361 sequences assigned  
357 (98.9%) exact matches, in which:  
353 unique CDR3  
13 unique J



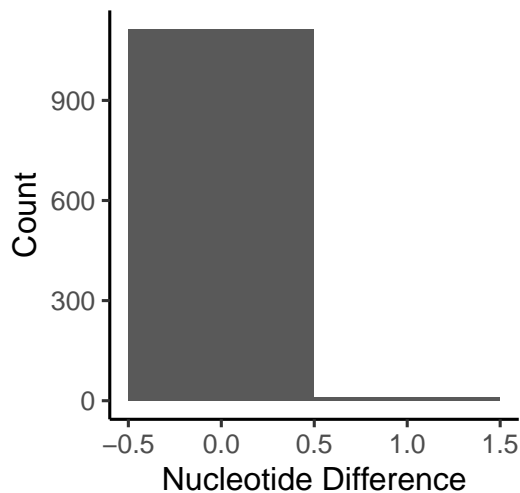
### TRBV7-9\*ap01

5163 sequences assigned  
5125 (99.3%) exact matches, in which:  
5035 unique CDR3  
13 unique J



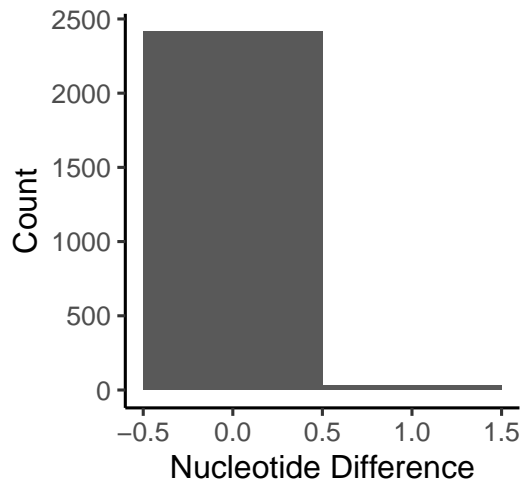
### TRBV7-8\*ap01

1125 sequences assigned  
1114 (99%) exact matches, in which:  
1096 unique CDR3  
13 unique J



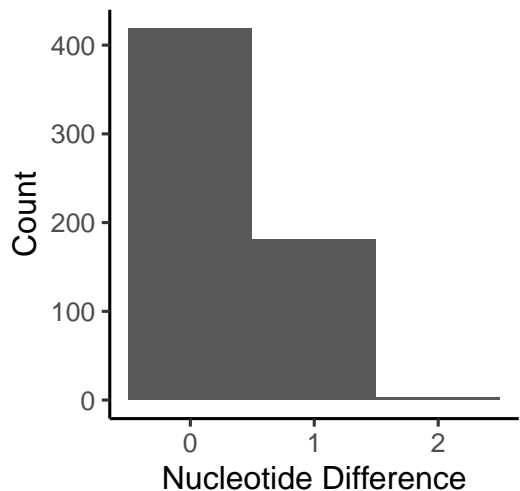
### TRBV29-1\*ap01

2443 sequences assigned  
2414 (98.8%) exact matches, in which:  
2369 unique CDR3  
13 unique J



### TRBV7-8\*ap03

603 sequences assigned  
419 (69.5%) exact matches, in which:  
412 unique CDR3  
13 unique J



### TRBV29-1\*ap02

500 sequences assigned  
494 (98.8%) exact matches, in which:  
487 unique CDR3  
13 unique J

