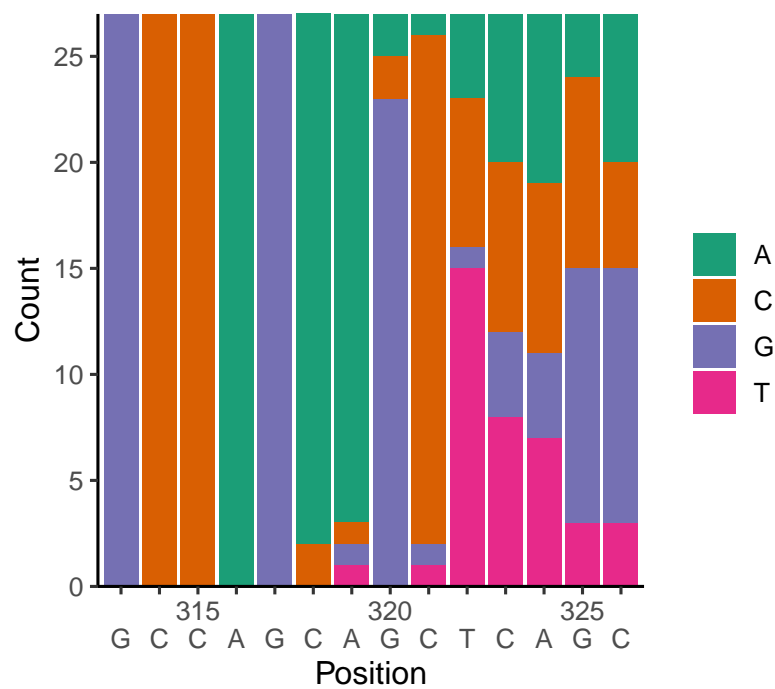
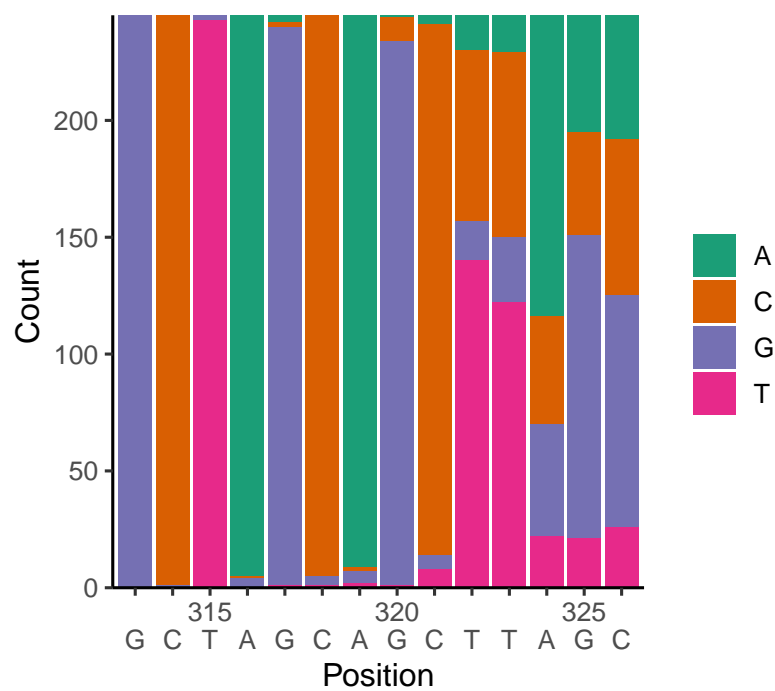


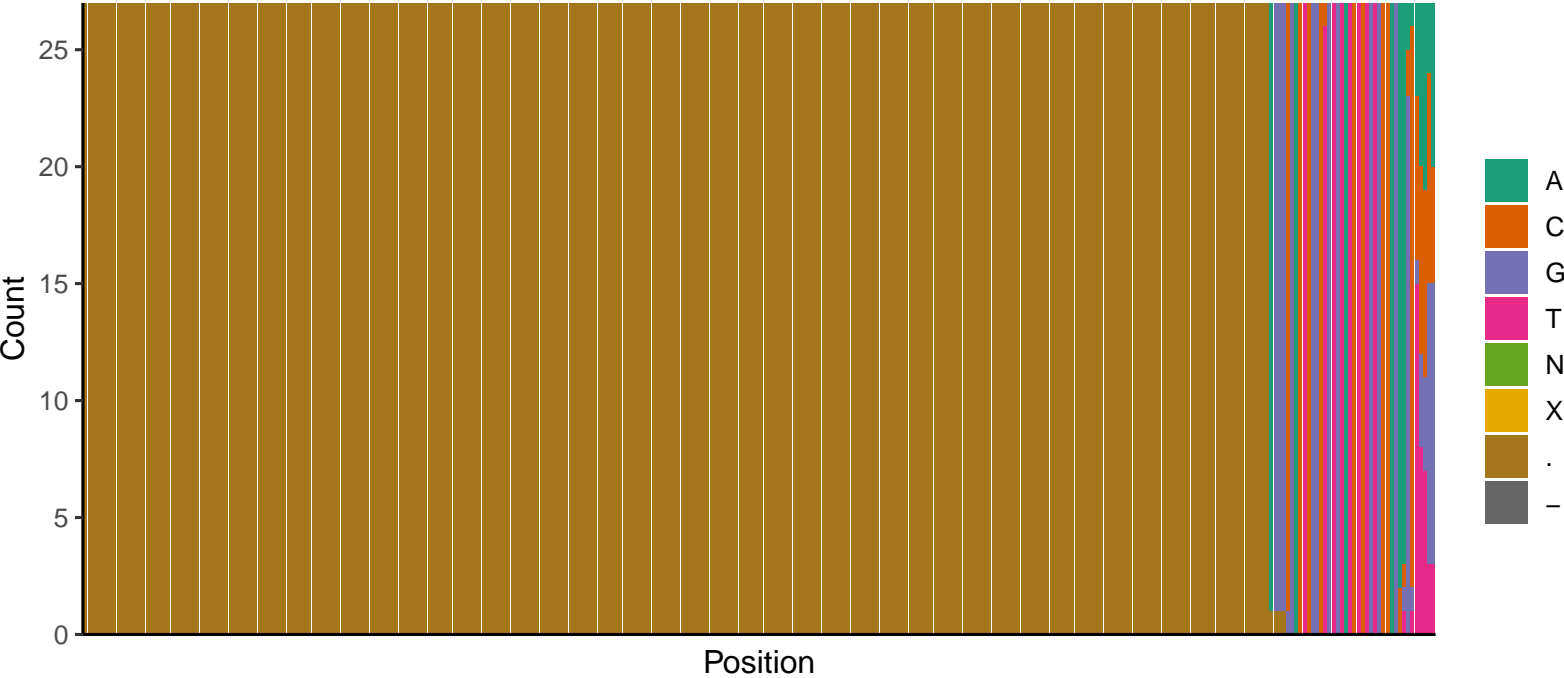
Gene TRBV7-1\*ap01\_T296C



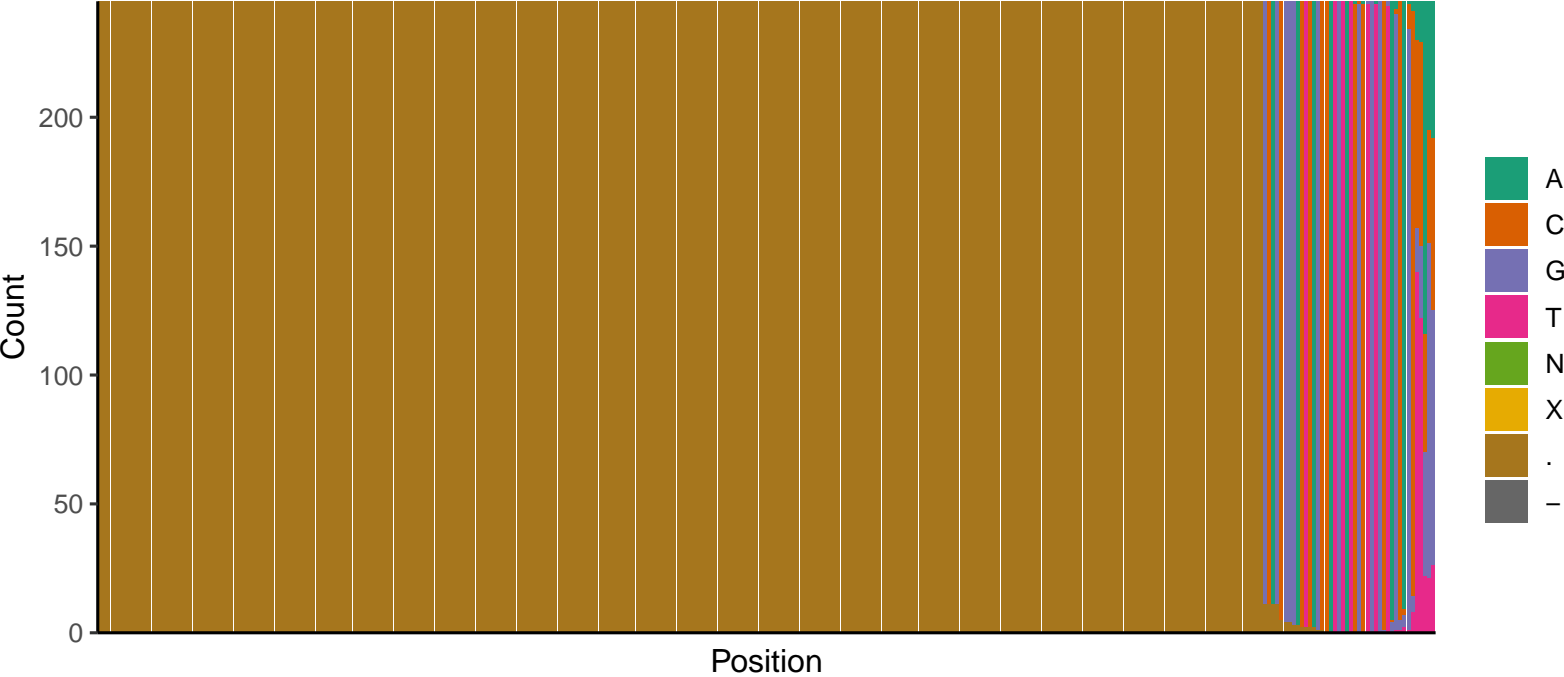
Gene TRBV7-7\*ap01\_C315T



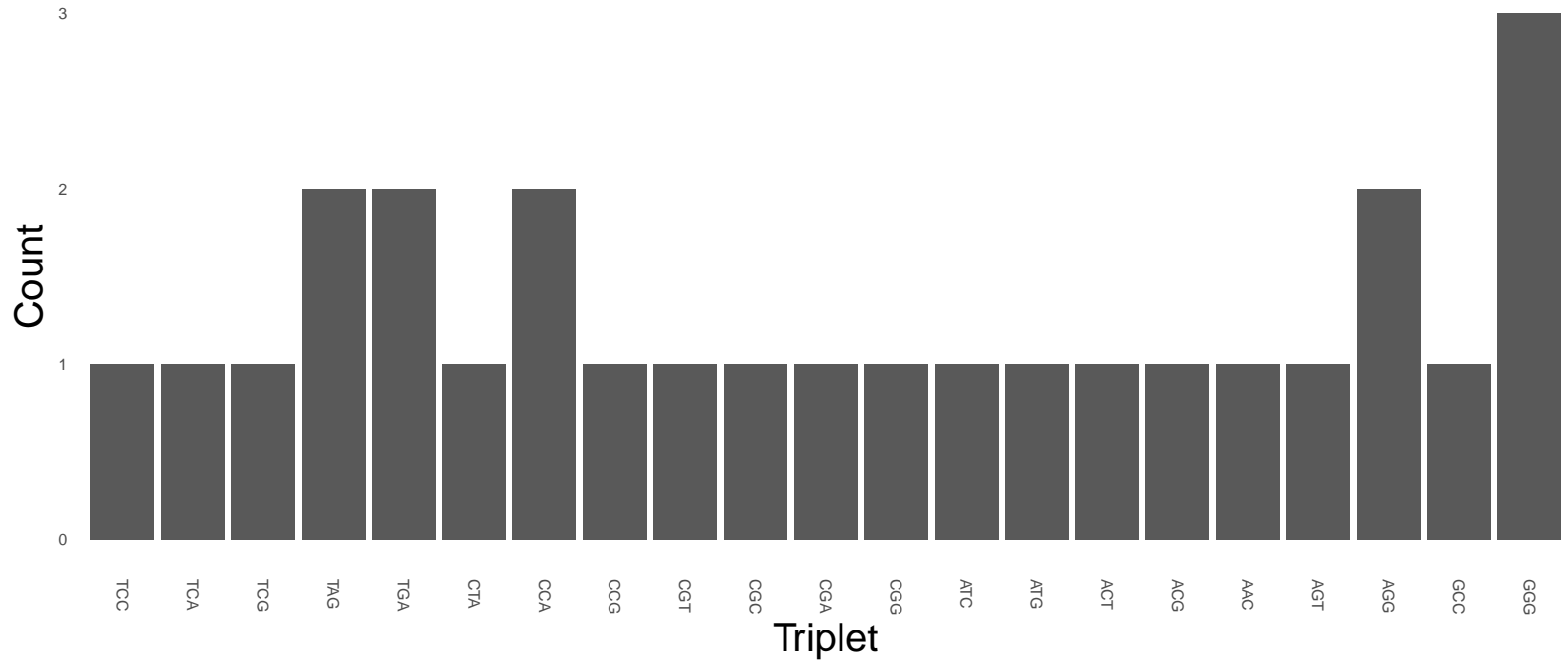
Gene TRBV7-1\*ap01\_T296C



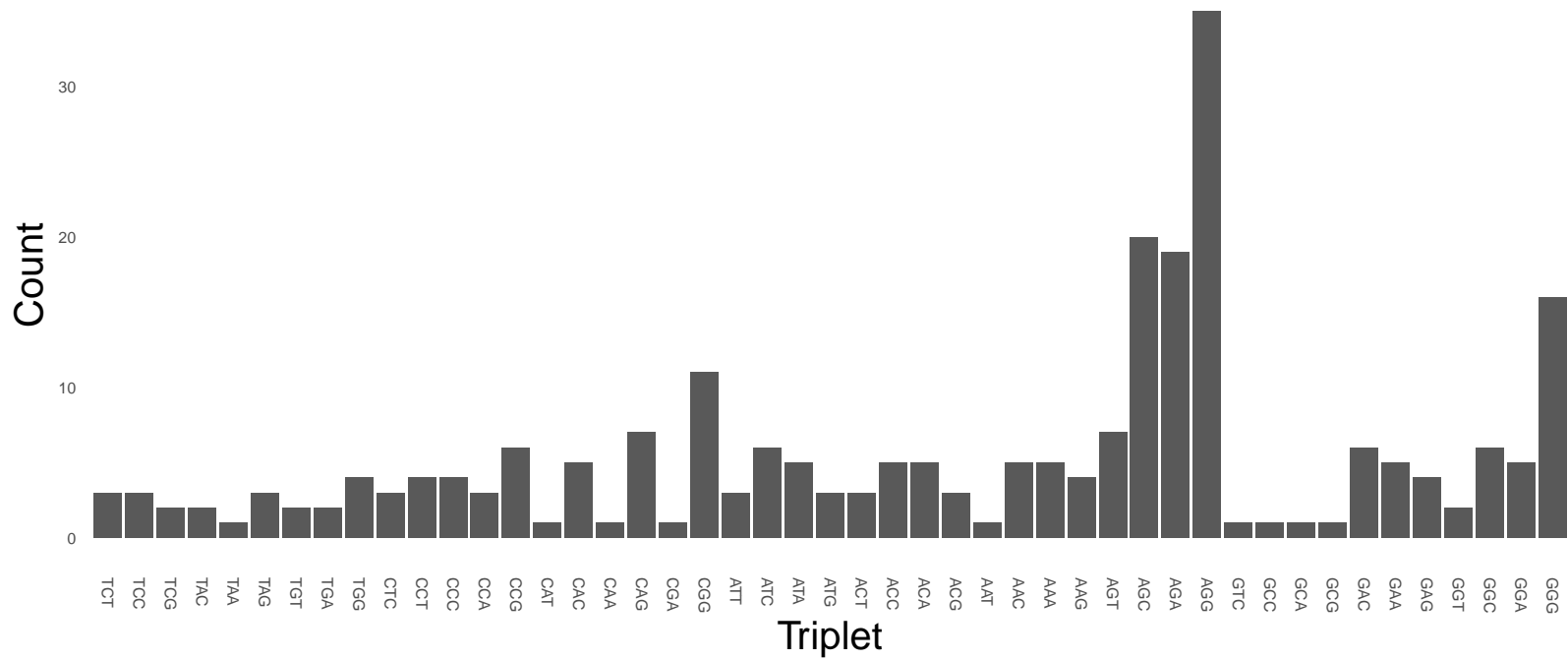
Gene TRBV7-7\*ap01\_C315T



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

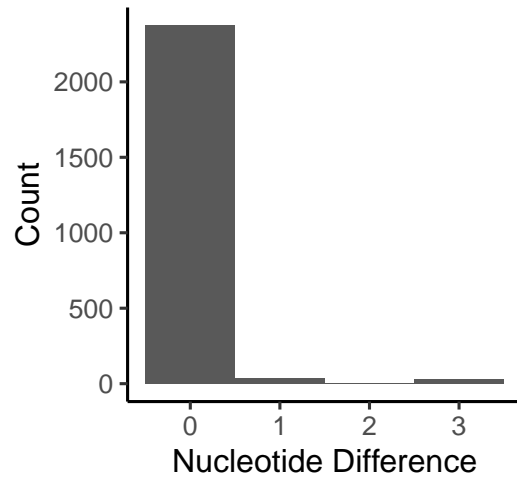


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



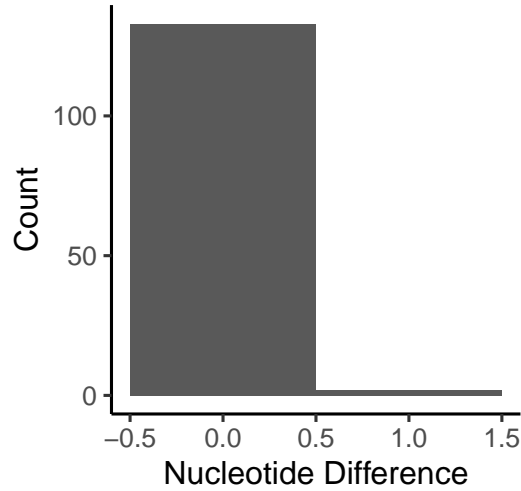
### TRBV20–1\*ap01

2445 sequences assigned  
2374 (97.1%) exact matches, in which:  
2324 unique CDR3  
13 unique J



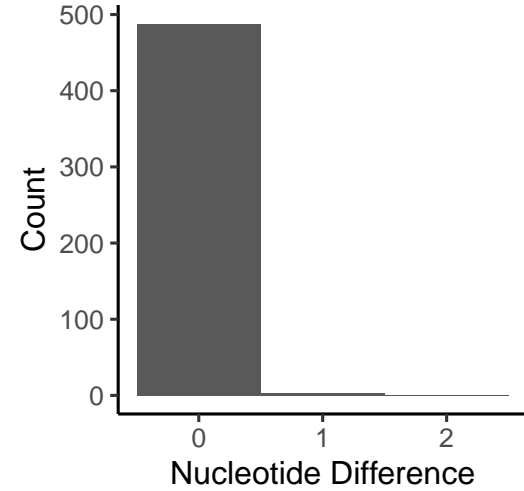
### TRBV10–2\*ap01

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



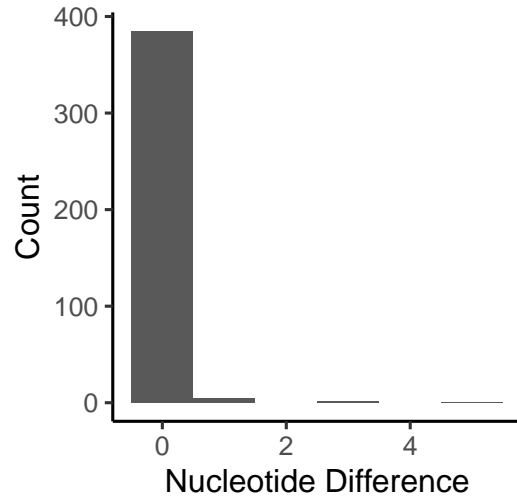
### TRBV13\*ap01

492 sequences assigned  
488 (99.2%) exact matches, in which:  
480 unique CDR3  
13 unique J



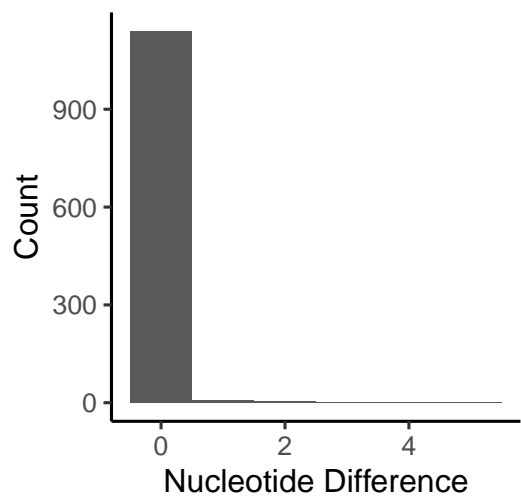
### TRBV10–1\*ap01

393 sequences assigned  
385 (98%) exact matches, in which:  
381 unique CDR3  
13 unique J



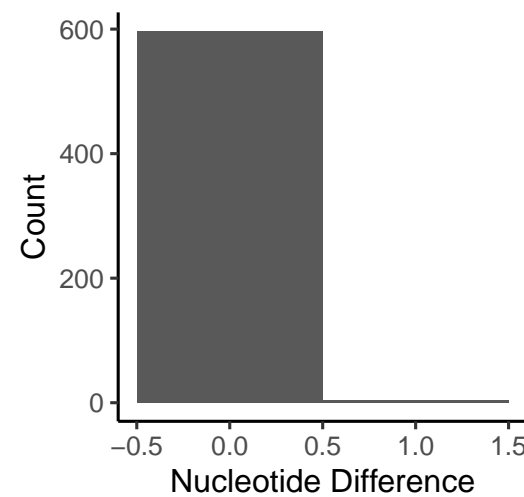
### TRBV10–3\*ap01

1156 sequences assigned  
1140 (98.6%) exact matches, in which:  
1123 unique CDR3  
13 unique J



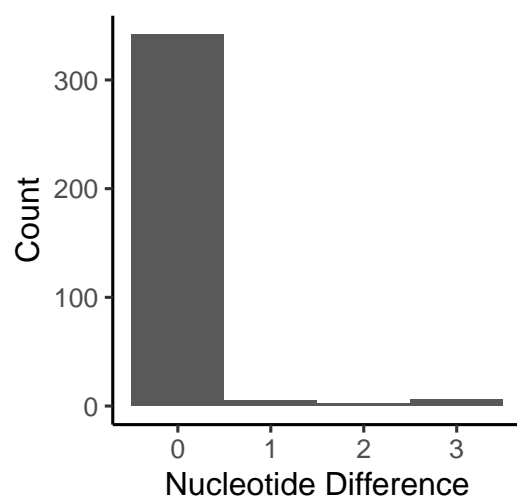
### TRBV14\*ap01

601 sequences assigned  
597 (99.3%) exact matches, in which:  
587 unique CDR3  
13 unique J



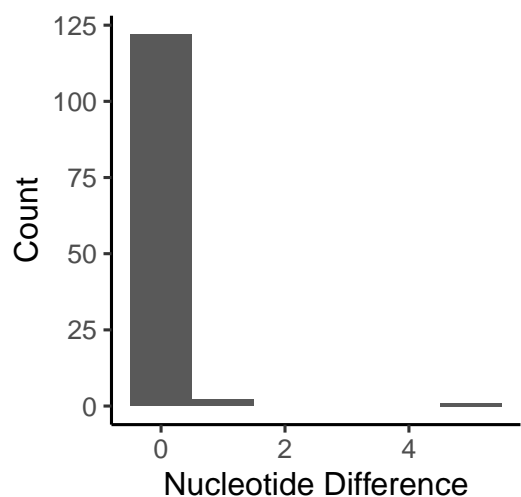
### TRBV20–1\*ap02

355 sequences assigned  
342 (96.3%) exact matches, in which:  
335 unique CDR3  
13 unique J



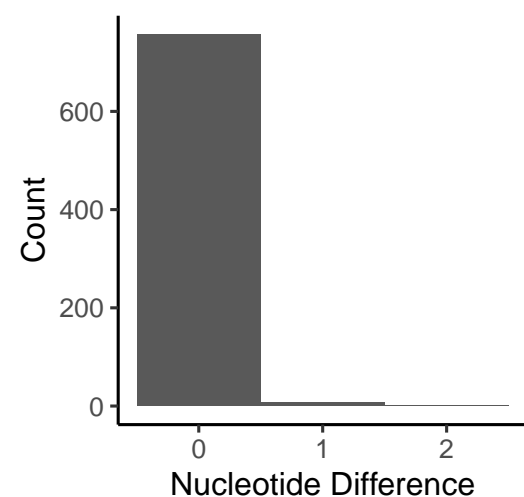
### TRBV1\*ap01

125 sequences assigned  
122 (97.6%) exact matches, in which:  
117 unique CDR3  
11 unique J



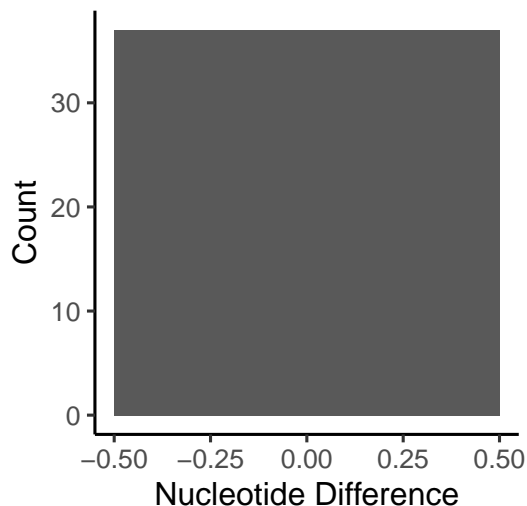
### TRBV15\*ap02

766 sequences assigned  
757 (98.8%) exact matches, in which:  
744 unique CDR3  
13 unique J



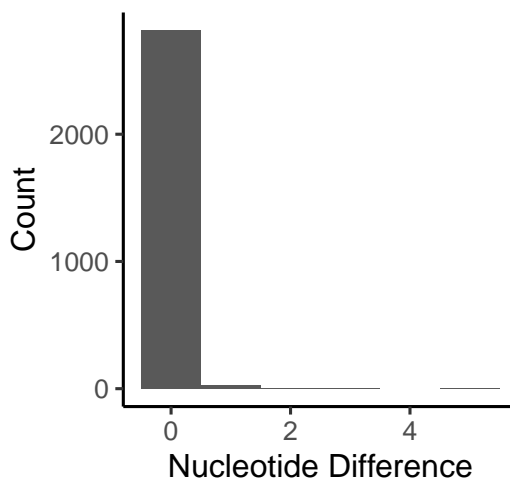
### TRBV16\*ap01

37 sequences assigned  
37 (100%) exact matches, in which:  
37 unique CDR3  
10 unique J



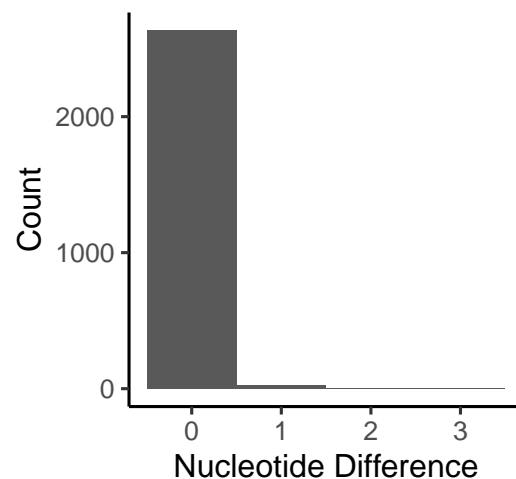
### TRBV19\*ap01

2853 sequences assigned  
2816 (98.7%) exact matches, in which:  
2771 unique CDR3  
13 unique J



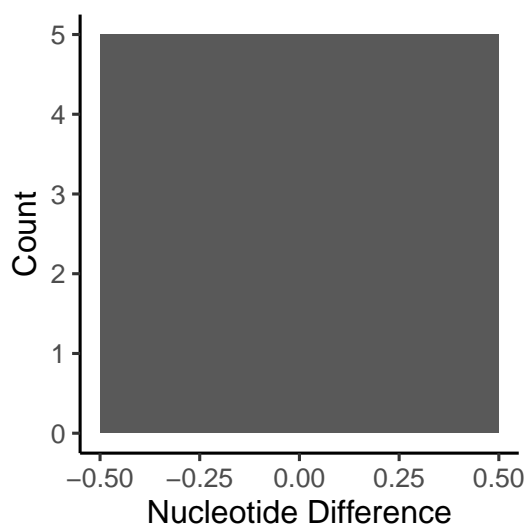
### TRBV28\*ap01

2665 sequences assigned  
2634 (98.8%) exact matches, in which:  
2586 unique CDR3  
13 unique J



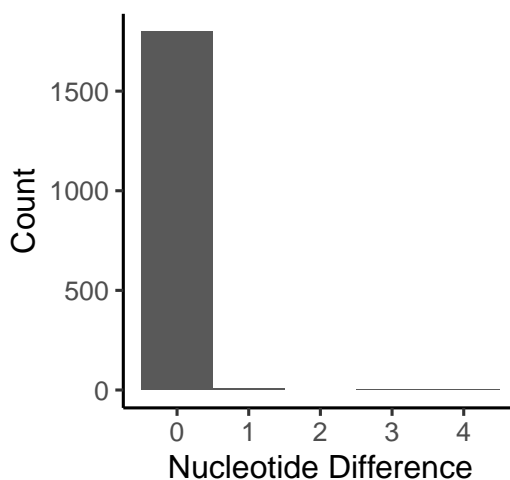
### TRBV17\*ap01

5 sequences assigned  
5 (100%) exact matches, in which:  
5 unique CDR3  
4 unique J



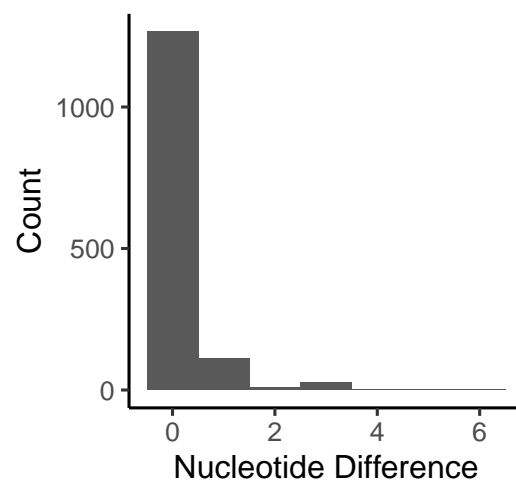
### TRBV2\*ap01

1806 sequences assigned  
1798 (99.6%) exact matches, in which:  
1776 unique CDR3  
13 unique J



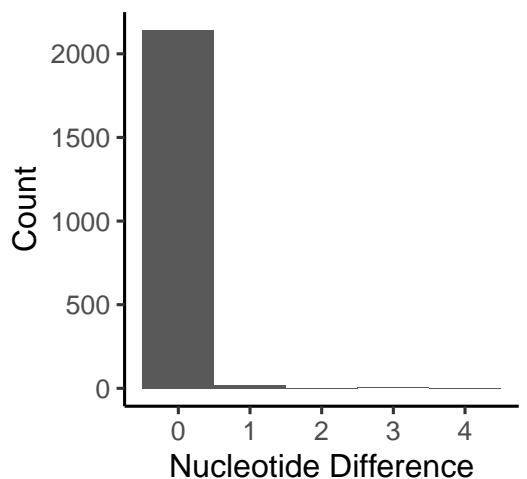
### TRBV30\*ap01

1420 sequences assigned  
1266 (89.2%) exact matches, in which:  
1242 unique CDR3  
13 unique J



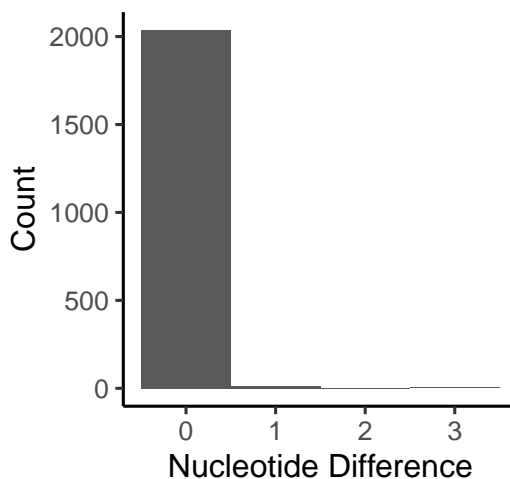
### TRBV18\*ap01

2170 sequences assigned  
2142 (98.7%) exact matches, in which:  
2094 unique CDR3  
13 unique J



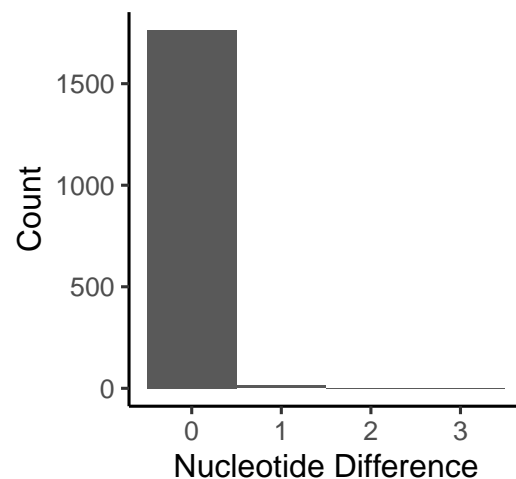
### TRBV27\*ap01

2055 sequences assigned  
2037 (99.1%) exact matches, in which:  
2009 unique CDR3  
13 unique J



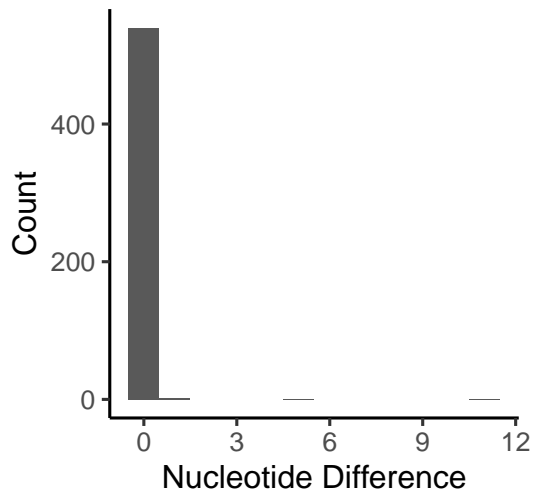
### TRBV9\*ap01

1780 sequences assigned  
1764 (99.1%) exact matches, in which:  
1732 unique CDR3  
13 unique J



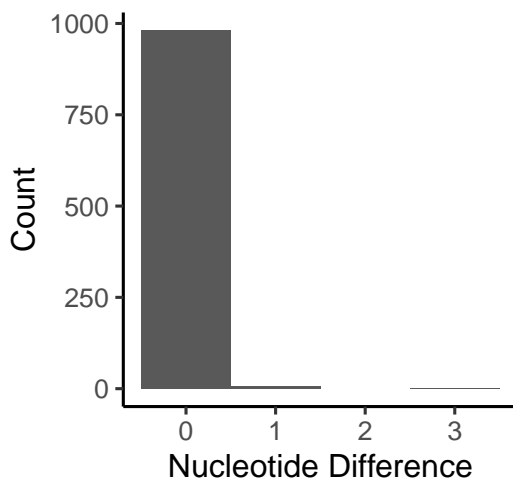
### TRBV21-1\*ap01

544 sequences assigned  
540 (99.3%) exact matches, in which:  
539 unique CDR3  
13 unique J



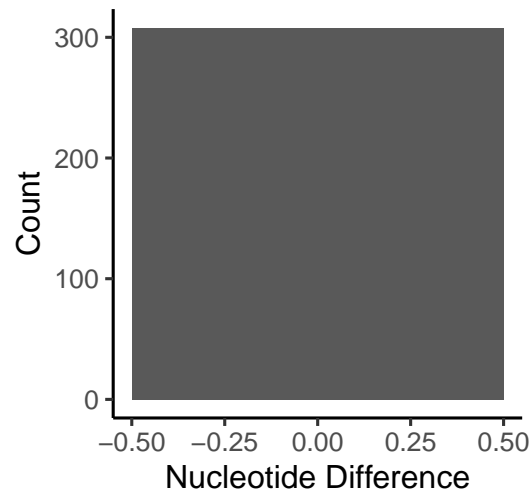
### TRBV11-3\*ap01

989 sequences assigned  
981 (99.2%) exact matches, in which:  
973 unique CDR3  
13 unique J



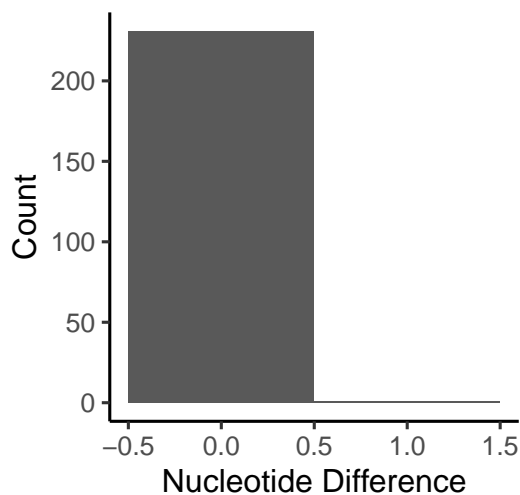
### TRBV12-5\*ap01

308 sequences assigned  
308 (100%) exact matches, in which:  
306 unique CDR3  
13 unique J



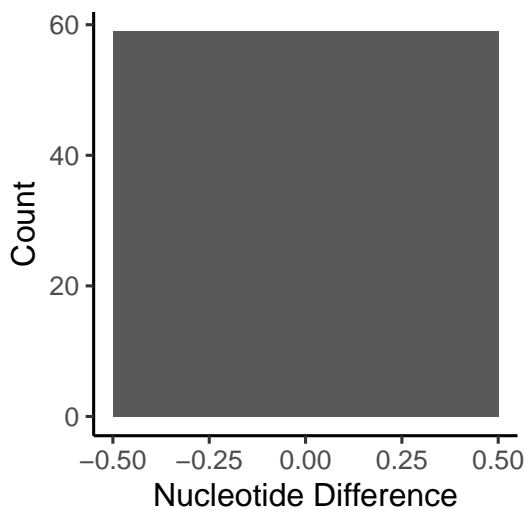
### TRBV11-1\*ap01

232 sequences assigned  
231 (99.6%) exact matches, in which:  
225 unique CDR3  
13 unique J



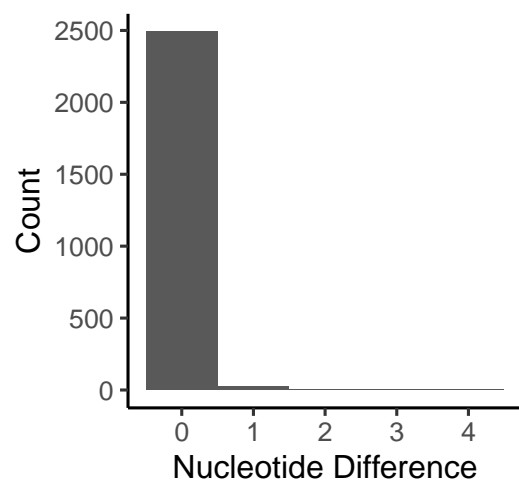
### TRBV12-1\*ap01

59 sequences assigned  
59 (100%) exact matches, in which:  
58 unique CDR3  
12 unique J



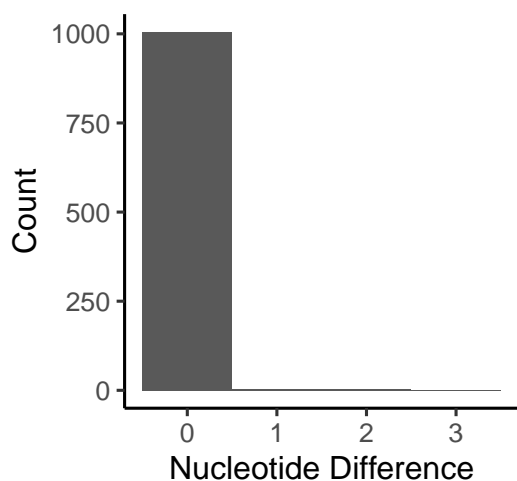
### TRBV12-34\*ap01

2517 sequences assigned  
2491 (99%) exact matches, in which:  
2443 unique CDR3  
13 unique J



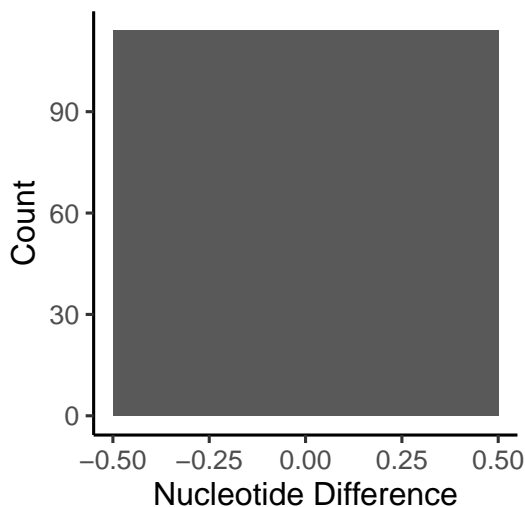
### TRBV11-2\*ap01

1014 sequences assigned  
1005 (99.1%) exact matches, in which:  
991 unique CDR3  
13 unique J



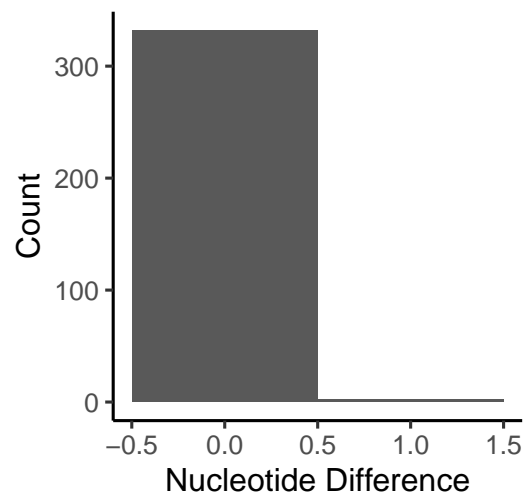
### TRBV12-2\*ap01

114 sequences assigned  
114 (100%) exact matches, in which:  
109 unique CDR3  
13 unique J



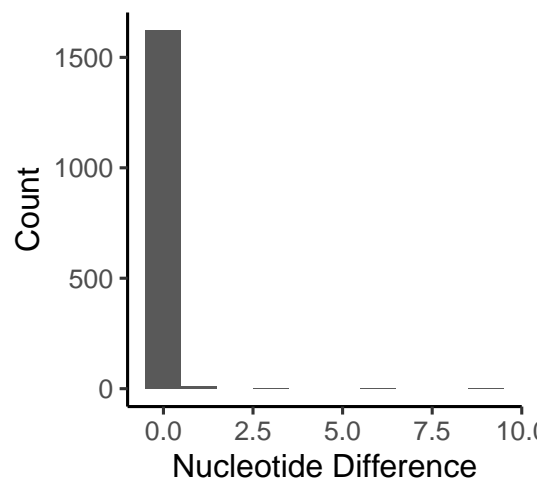
### TRBV23-1\*ap01

334 sequences assigned  
332 (99.4%) exact matches, in which:  
328 unique CDR3  
13 unique J



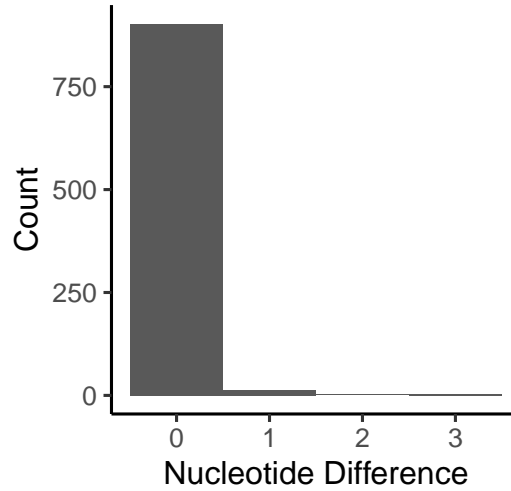
### TRBV3-12\*ap01

1638 sequences assigned  
1622 (99%) exact matches, in which:  
1607 unique CDR3  
13 unique J



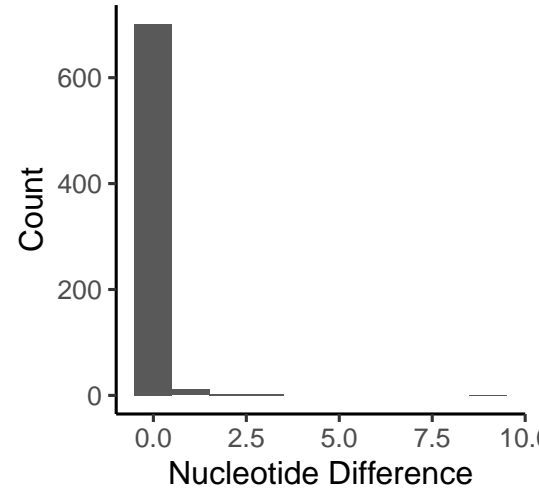
### TRBV4-2\*ap01

922 sequences assigned  
903 (97.9%) exact matches, in which:  
883 unique CDR3  
13 unique J



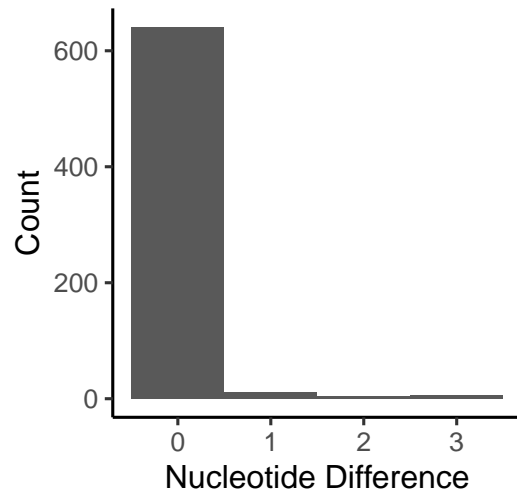
### TRBV25-1\*ap01

718 sequences assigned  
702 (97.8%) exact matches, in which:  
685 unique CDR3  
13 unique J



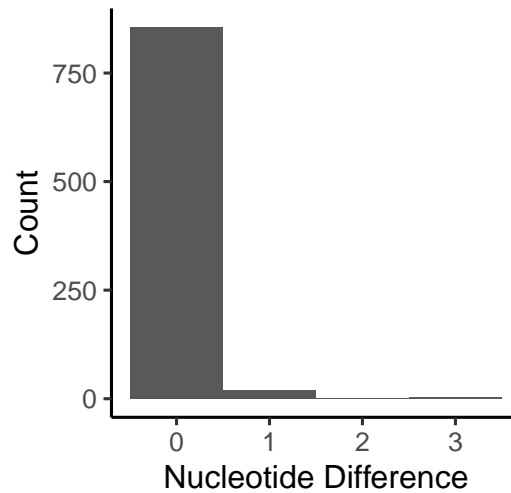
### TRBV4-1\*ap01

663 sequences assigned  
641 (96.7%) exact matches, in which:  
623 unique CDR3  
13 unique J



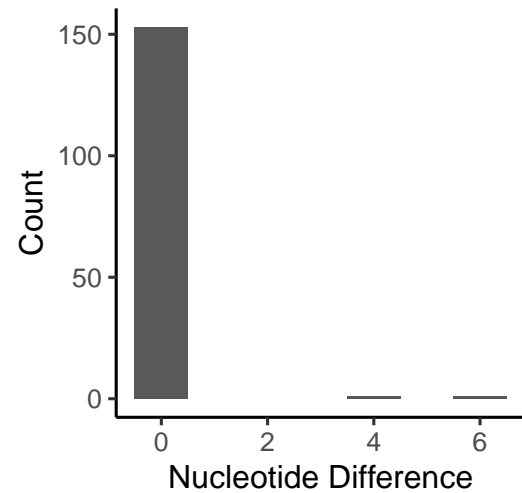
### TRBV4-3\*ap01

881 sequences assigned  
856 (97.2%) exact matches, in which:  
837 unique CDR3  
13 unique J



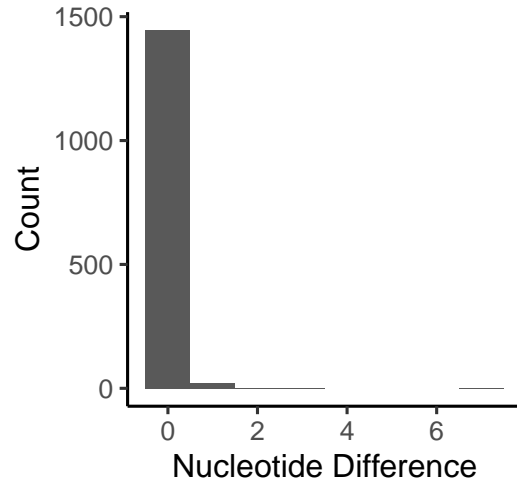
### TRBV5-3\*ap01

155 sequences assigned  
153 (98.7%) exact matches, in which:  
151 unique CDR3  
13 unique J



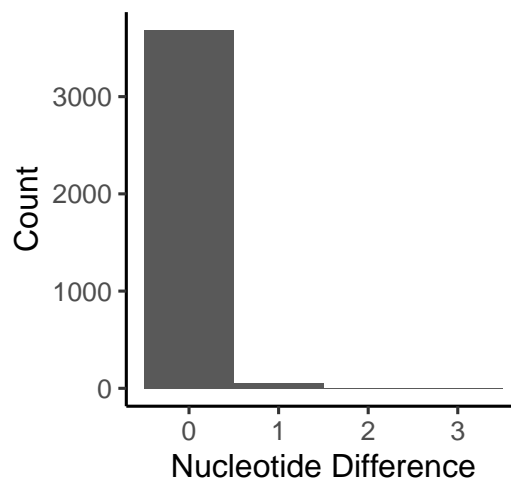
### TRBV24-1\*ap01

1472 sequences assigned  
1446 (98.2%) exact matches, in which:  
1414 unique CDR3  
13 unique J



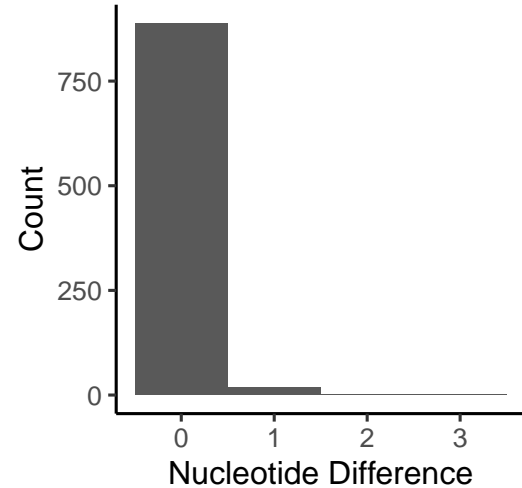
### TRBV5-1\*ap01

3744 sequences assigned  
3685 (98.4%) exact matches, in which:  
3596 unique CDR3  
13 unique J



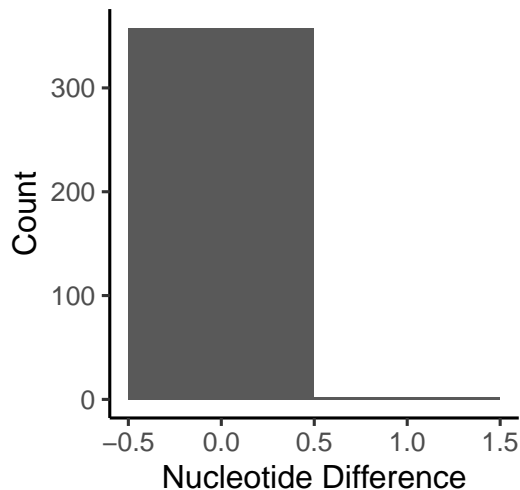
### TRBV5-4\*ap01

908 sequences assigned  
888 (97.8%) exact matches, in which:  
873 unique CDR3  
13 unique J



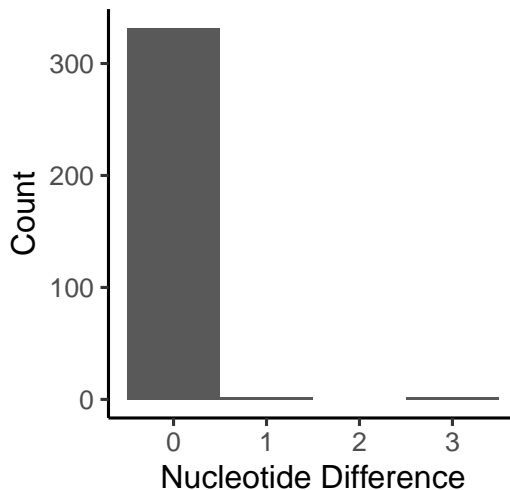
### TRBV5-5\*ap01

360 sequences assigned  
358 (99.4%) exact matches, in which:  
354 unique CDR3  
13 unique J



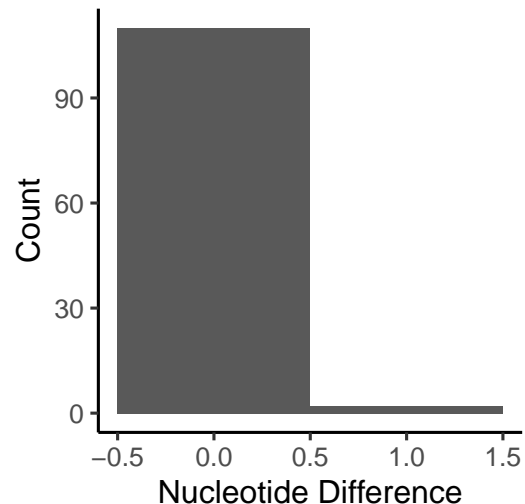
### TRBV5-8\*ap01

336 sequences assigned  
332 (98.8%) exact matches, in which:  
327 unique CDR3  
13 unique J



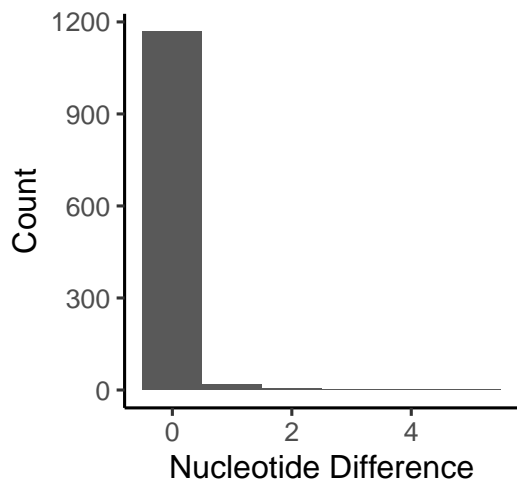
### TRBV6-7\*ap01

112 sequences assigned  
110 (98.2%) exact matches, in which:  
107 unique CDR3  
12 unique J



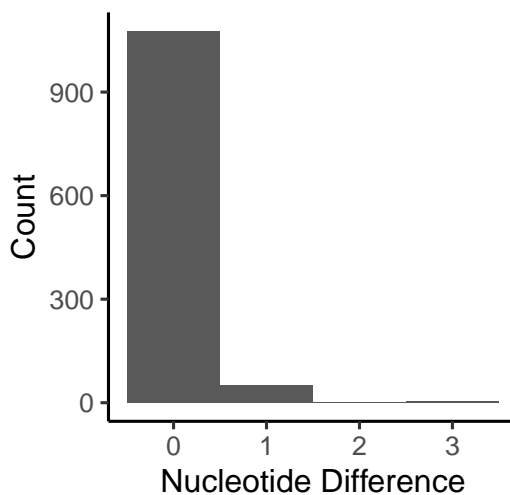
### TRBV5-6\*ap01

1199 sequences assigned  
1168 (97.4%) exact matches, in which:  
1128 unique CDR3  
13 unique J



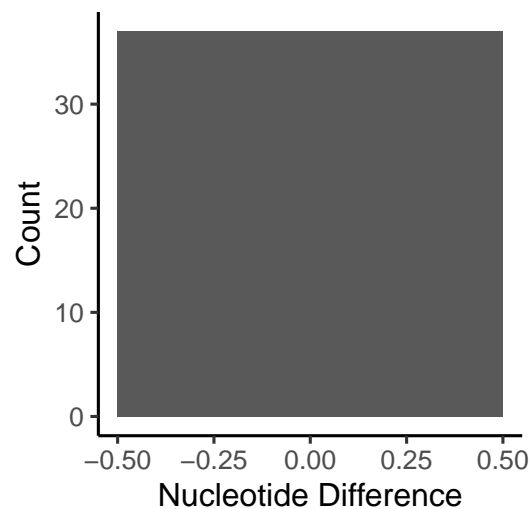
### TRBV6-1\*ap01

1133 sequences assigned  
1077 (95.1%) exact matches, in which:  
1056 unique CDR3  
13 unique J



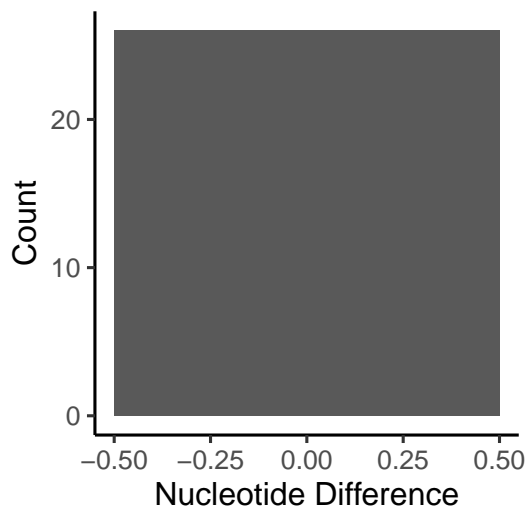
### TRBV6-8\*ap01

37 sequences assigned  
37 (100%) exact matches, in which:  
37 unique CDR3  
12 unique J



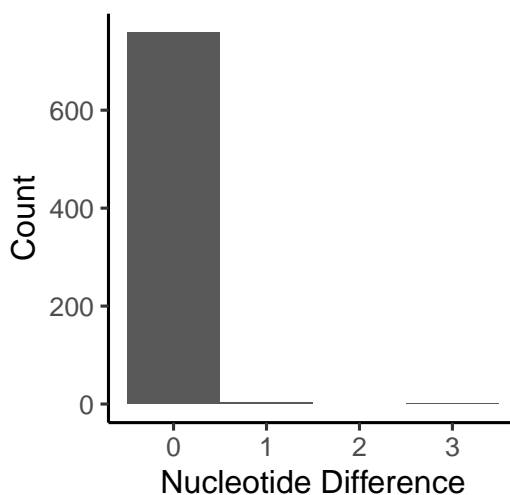
### TRBV5-7\*ap01

26 sequences assigned  
26 (100%) exact matches, in which:  
26 unique CDR3  
10 unique J



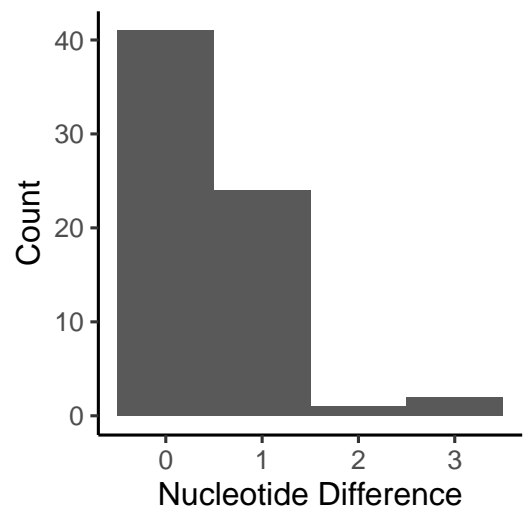
### TRBV6-4\*ap01

764 sequences assigned  
759 (99.3%) exact matches, in which:  
752 unique CDR3  
13 unique J



### TRBV6-9\*ap01

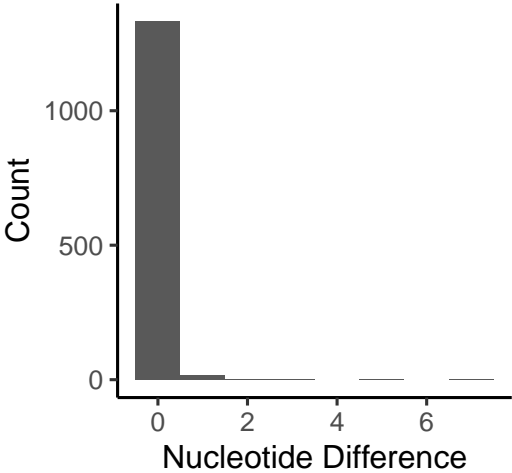
68 sequences assigned  
41 (60.3%) exact matches, in which:  
39 unique CDR3  
9 unique J





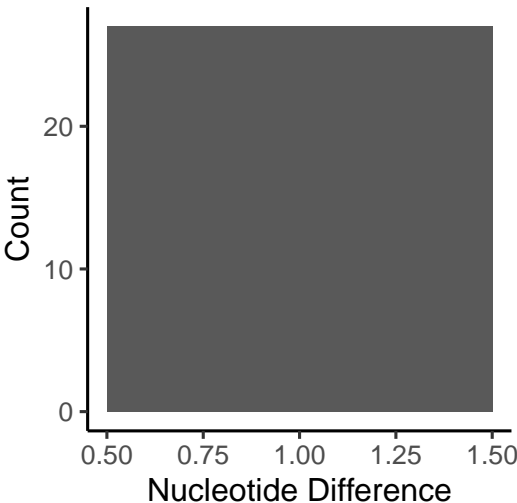
TRBV6-23\*ap01

1354 sequences assigned  
1332 (98.4%) exact matches, in which:  
1296 unique CDR3  
13 unique J



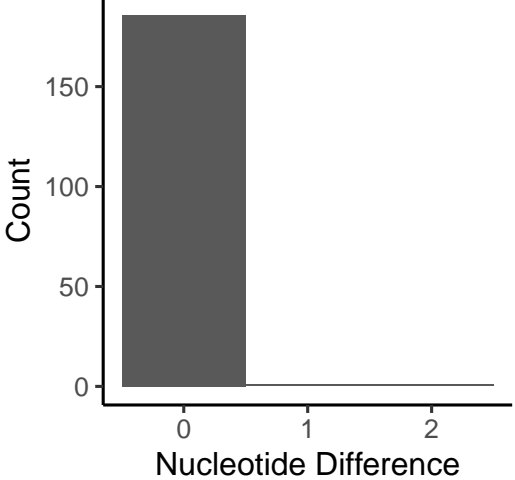
TRBV7-1\*ap01\_T296C

27 sequences assigned  
No exact matches.



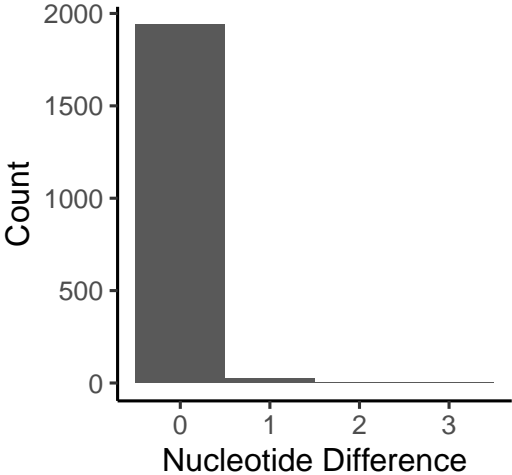
TRBV7-3\*ap03

188 sequences assigned  
186 (98.9%) exact matches, in which:  
185 unique CDR3  
13 unique J



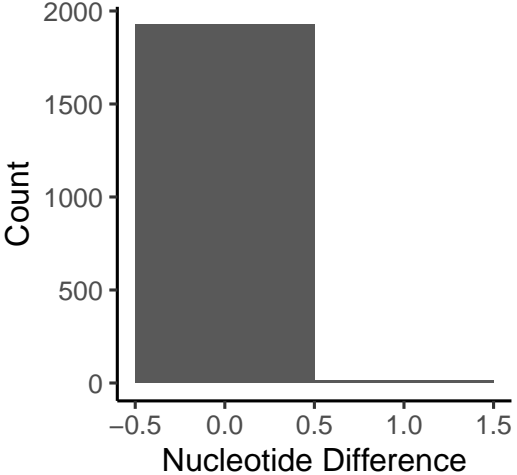
TRBV6-56\*ap01

1969 sequences assigned  
1939 (98.5%) exact matches, in which:  
1887 unique CDR3  
13 unique J



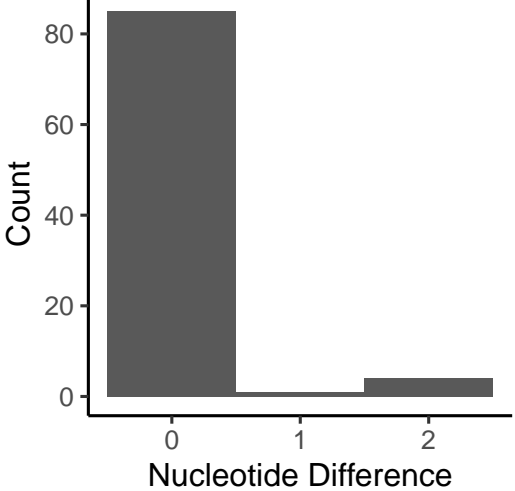
TRBV7-2\*ap01

1942 sequences assigned  
1926 (99.2%) exact matches, in which:  
1896 unique CDR3  
13 unique J



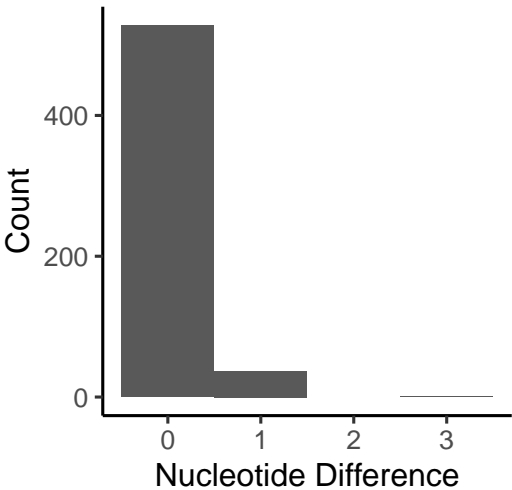
TRBV7-4\*ap01

90 sequences assigned  
85 (94.4%) exact matches, in which:  
84 unique CDR3  
13 unique J



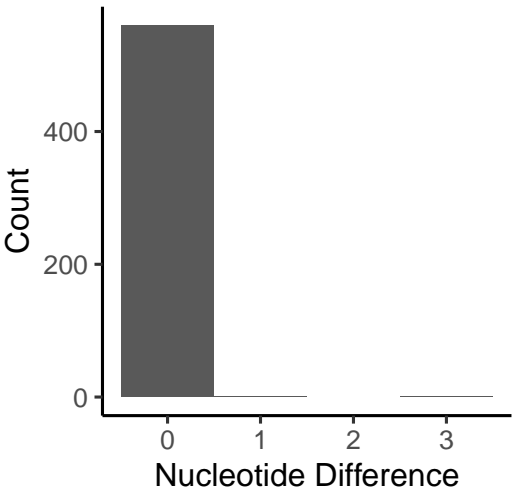
TRBV6-56\*ap02

566 sequences assigned  
528 (93.3%) exact matches, in which:  
515 unique CDR3  
13 unique J



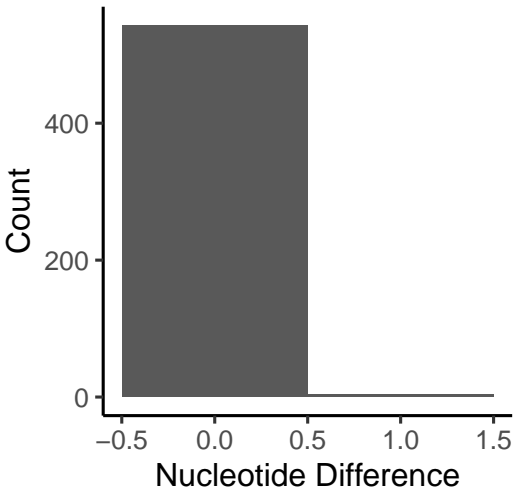
TRBV7-3\*ap01

562 sequences assigned  
560 (99.6%) exact matches, in which:  
557 unique CDR3  
13 unique J



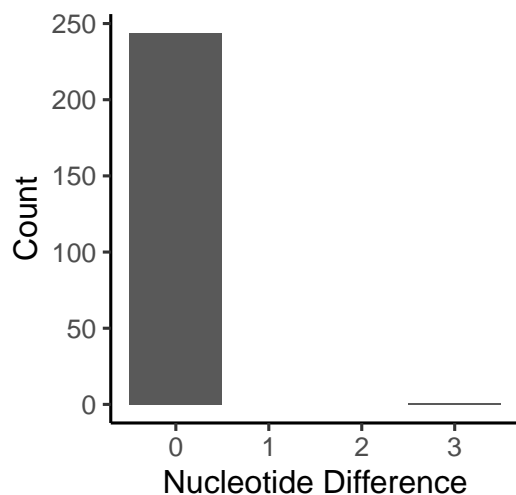
TRBV7-6\*ap01

547 sequences assigned  
543 (99.3%) exact matches, in which:  
532 unique CDR3  
13 unique J



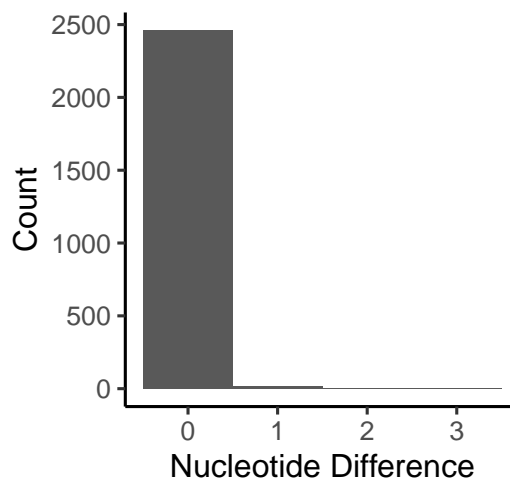
### TRBV7-7\*ap01\_C315T

245 sequences assigned  
244 (99.6%) exact matches, in which:  
244 unique CDR3  
13 unique J



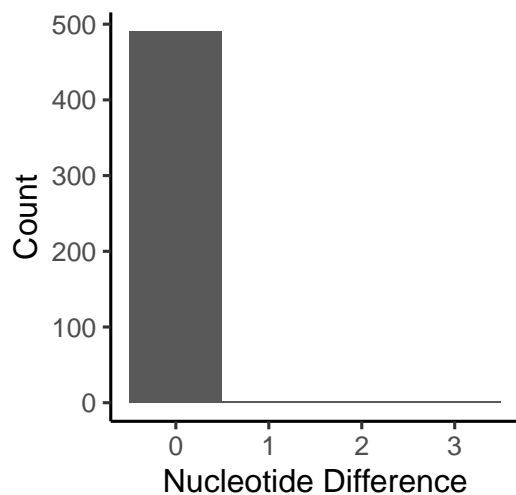
### TRBV7-9\*ap01

2477 sequences assigned  
2460 (99.3%) exact matches, in which:  
2420 unique CDR3  
13 unique J



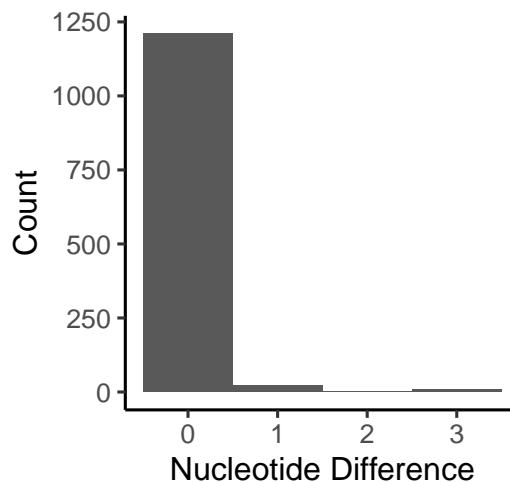
### TRBV7-8\*ap01

497 sequences assigned  
491 (98.8%) exact matches, in which:  
487 unique CDR3  
13 unique J



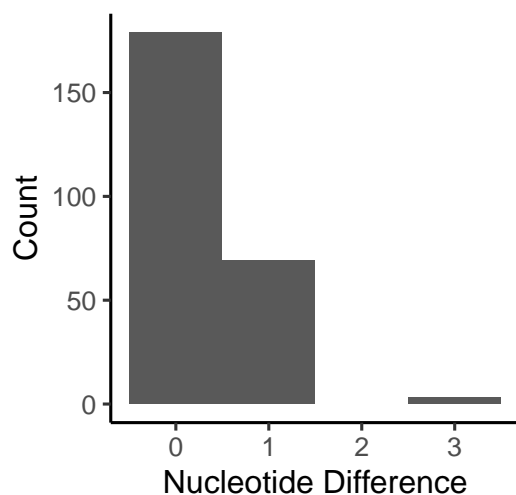
### TRBV29-1\*ap01

1239 sequences assigned  
1210 (97.7%) exact matches, in which:  
1186 unique CDR3  
13 unique J



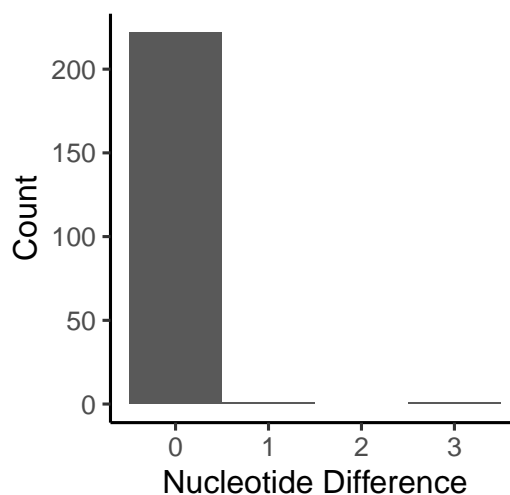
### TRBV7-8\*ap03

251 sequences assigned  
179 (71.3%) exact matches, in which:  
178 unique CDR3  
13 unique J



### TRBV29-1\*ap02

224 sequences assigned  
222 (99.1%) exact matches, in which:  
216 unique CDR3  
13 unique J



TRBV7-7\*ap01\_C315T

