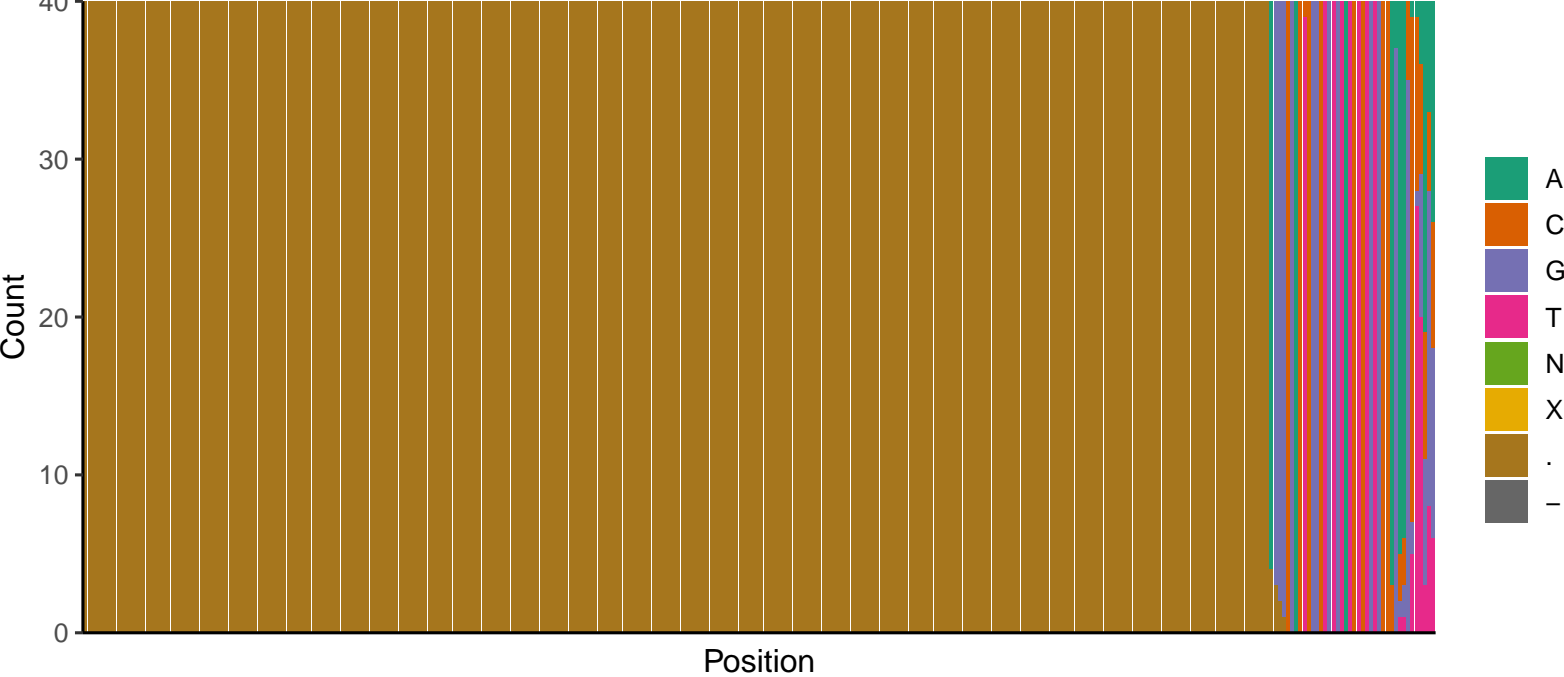




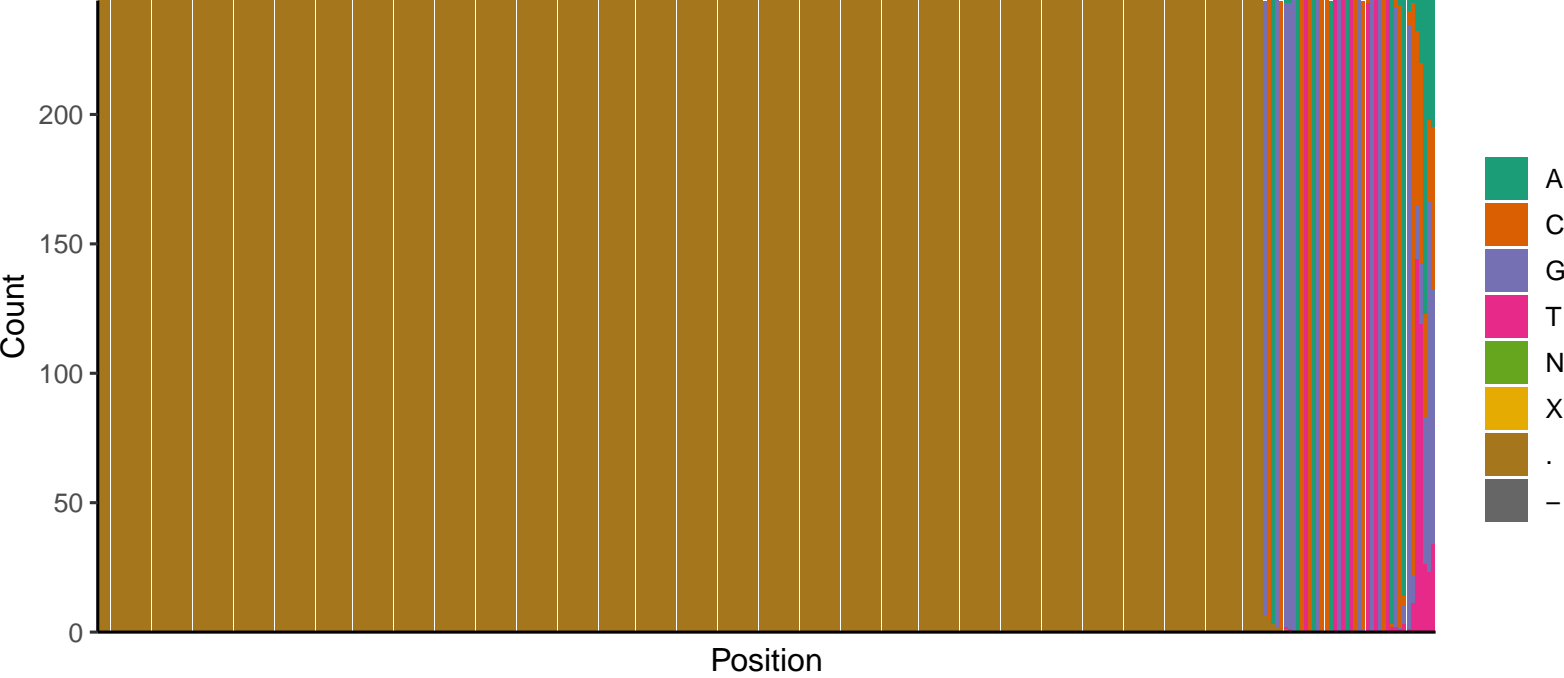
Gene TRBV1\*ap01\_C302T



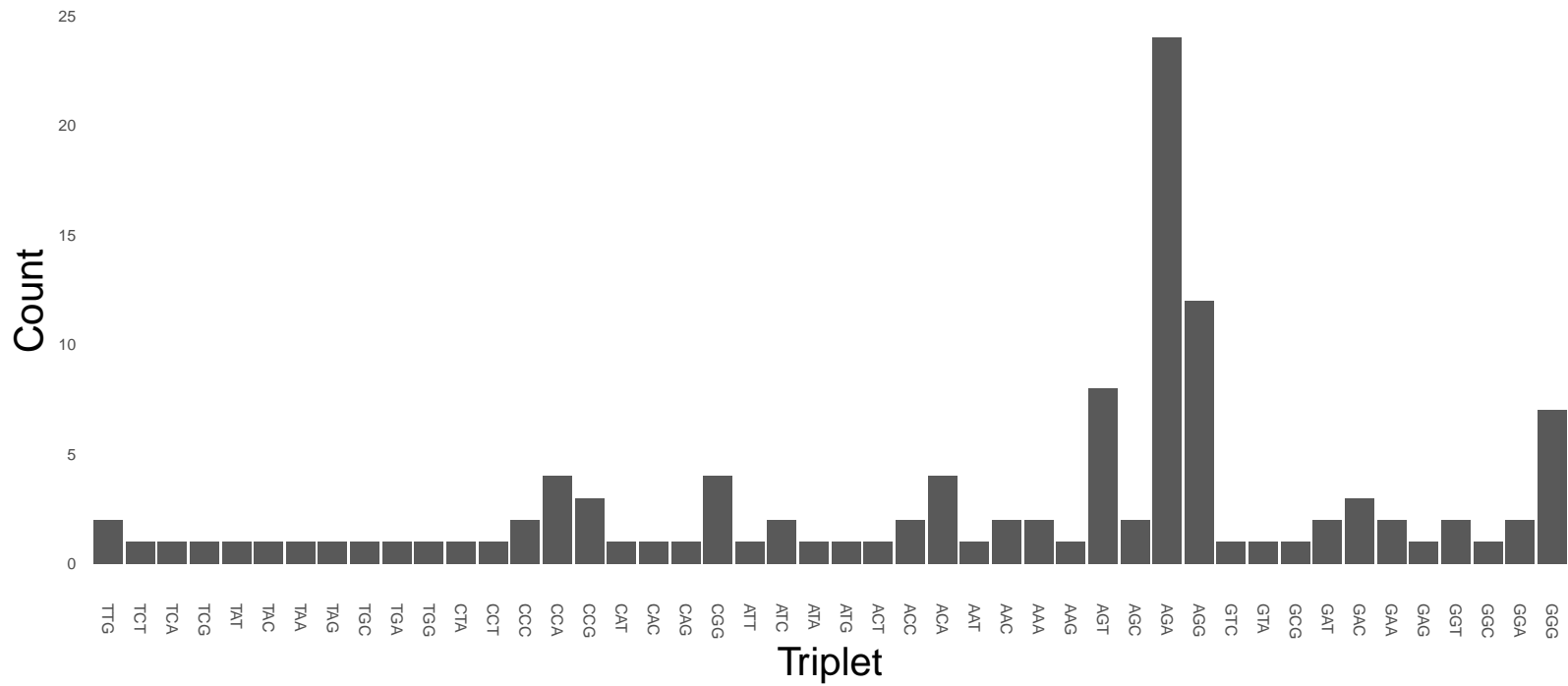
Gene TRBV7-1\*ap01\_G291C\_T296C



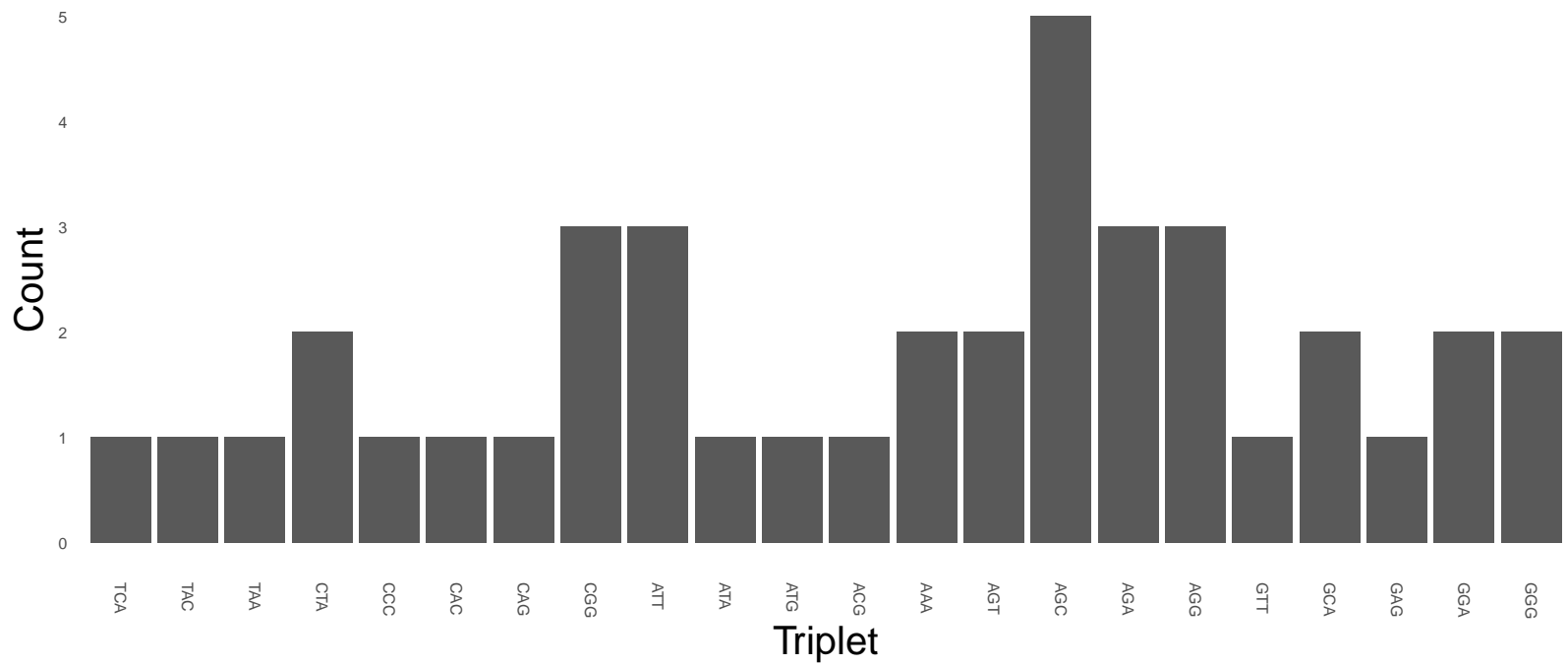
Gene TRBV7-7\*ap01\_C315T



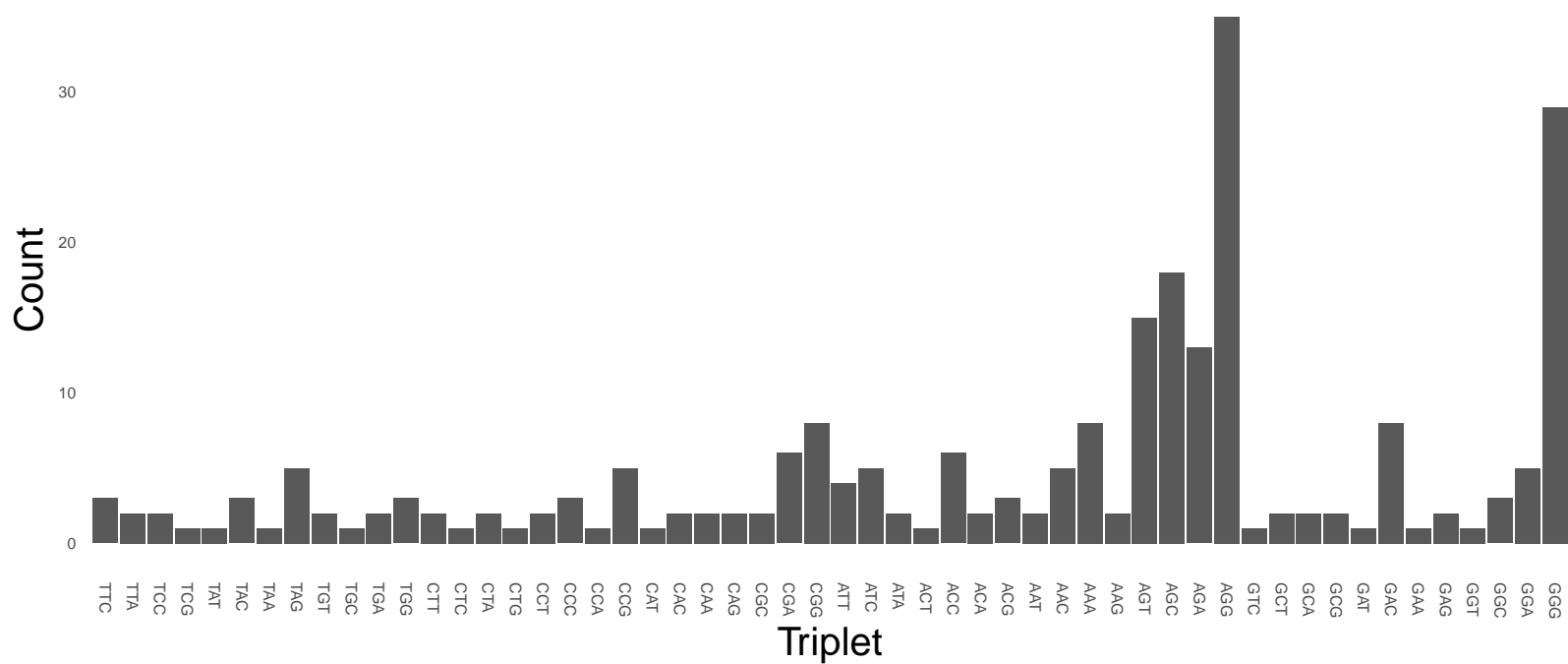
TRBV1\*ap01\_C302T– Final 3 nucleotides as a triplet



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

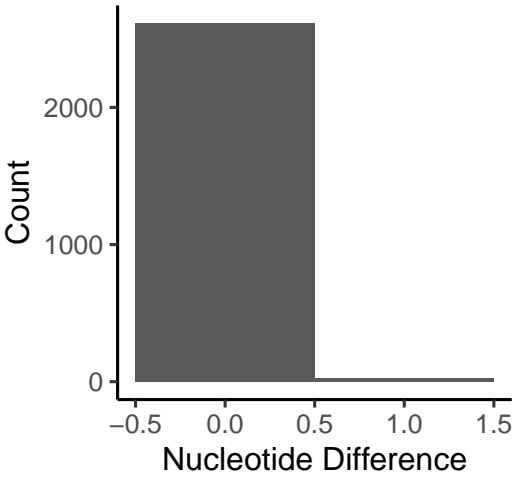


TRBV7–7\*ap01\_C315T– Final 3 nucleotides as a triplet



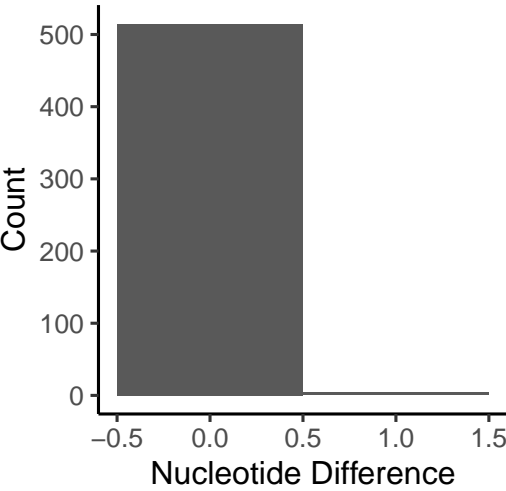
TRBV20-1\*ap01

2635 sequences assigned  
2613 (99.2%) exact matches, in which:  
2593 unique CDR3  
13 unique J



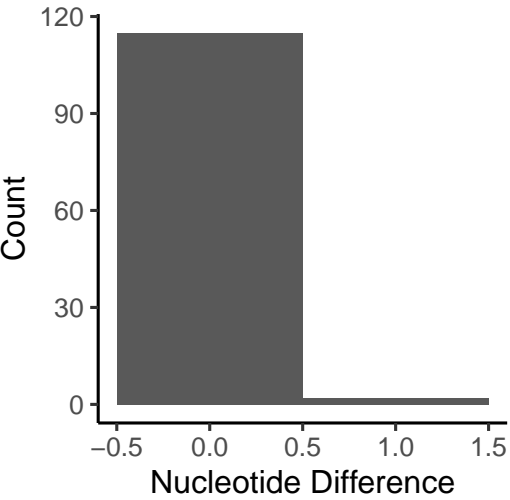
TRBV10-2\*ap01

519 sequences assigned  
515 (99.2%) exact matches, in which:  
506 unique CDR3  
13 unique J



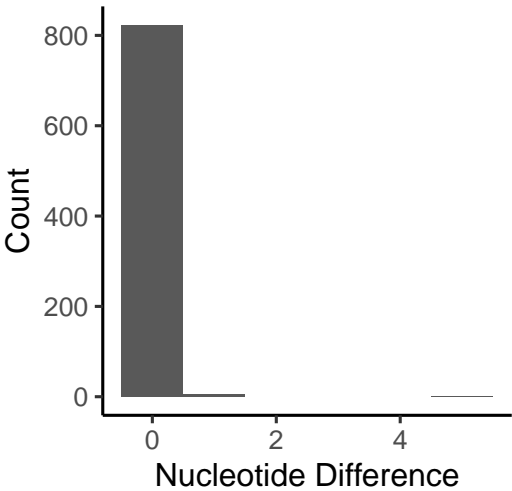
TRBV1\*ap01\_C302T

117 sequences assigned  
115 (98.3%) exact matches, in which:  
114 unique CDR3  
13 unique J



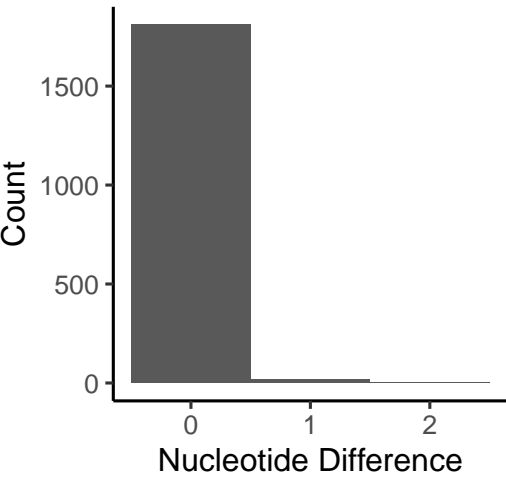
TRBV10-1\*ap01

830 sequences assigned  
823 (99.2%) exact matches, in which:  
810 unique CDR3  
13 unique J



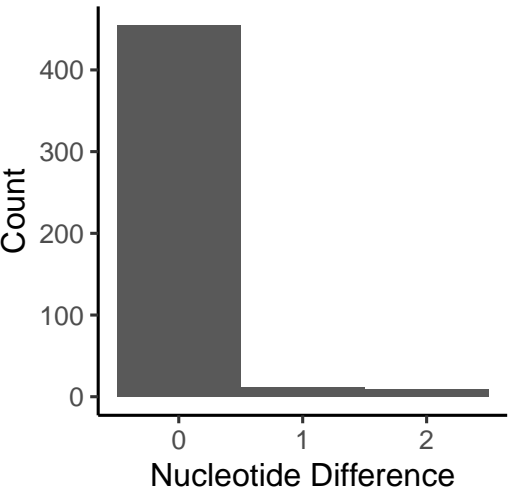
TRBV10-3\*ap01

1827 sequences assigned  
1810 (99.1%) exact matches, in which:  
1794 unique CDR3  
13 unique J



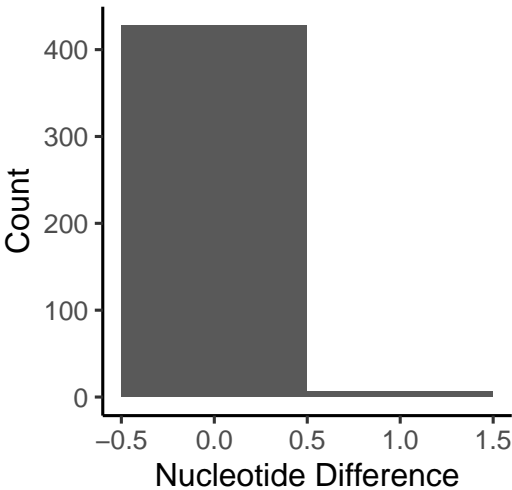
TRBV13\*ap01

476 sequences assigned  
455 (95.6%) exact matches, in which:  
449 unique CDR3  
13 unique J



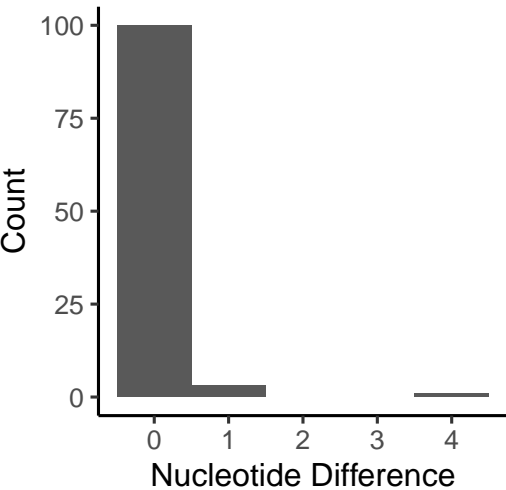
TRBV20-1\*ap02

434 sequences assigned  
428 (98.6%) exact matches, in which:  
424 unique CDR3  
13 unique J



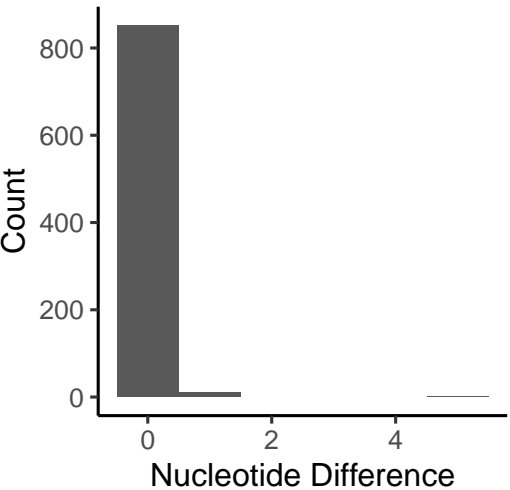
TRBV1\*ap01

104 sequences assigned  
100 (96.2%) exact matches, in which:  
99 unique CDR3  
12 unique J



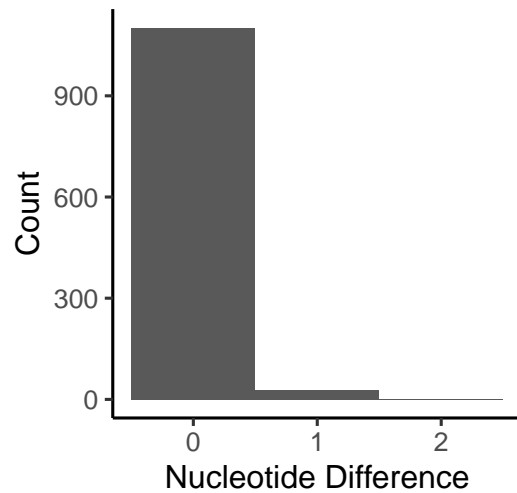
TRBV14\*ap01

863 sequences assigned  
852 (98.7%) exact matches, in which:  
844 unique CDR3  
13 unique J



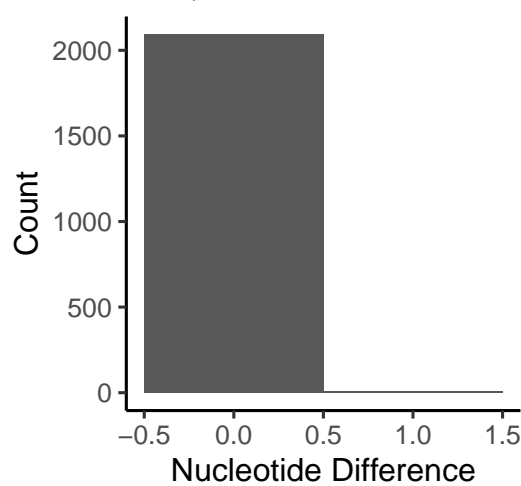
### TRBV15\*ap02

1132 sequences assigned  
1102 (97.3%) exact matches, in which:  
1091 unique CDR3  
13 unique J



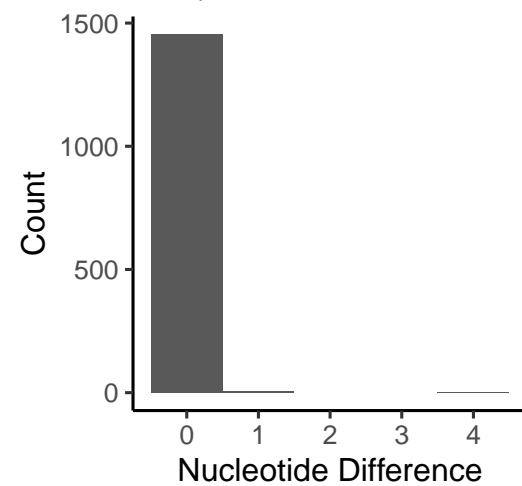
### TRBV18\*ap01

2101 sequences assigned  
2093 (99.6%) exact matches, in which:  
2079 unique CDR3  
13 unique J



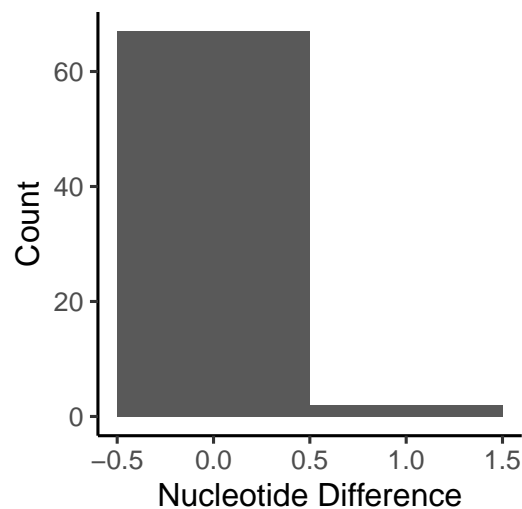
### TRBV27\*ap01

1461 sequences assigned  
1454 (99.5%) exact matches, in which:  
1446 unique CDR3  
13 unique J



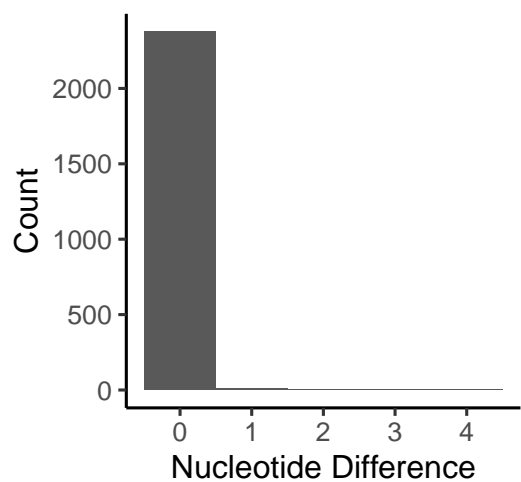
### TRBV16\*ap01

69 sequences assigned  
67 (97.1%) exact matches, in which:  
67 unique CDR3  
12 unique J



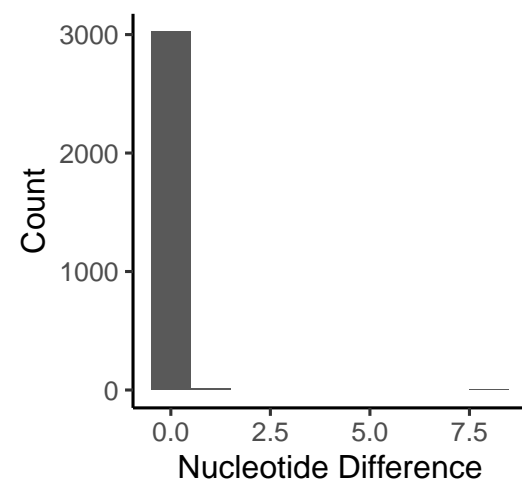
### TRBV19\*ap01

2391 sequences assigned  
2376 (99.4%) exact matches, in which:  
2362 unique CDR3  
13 unique J



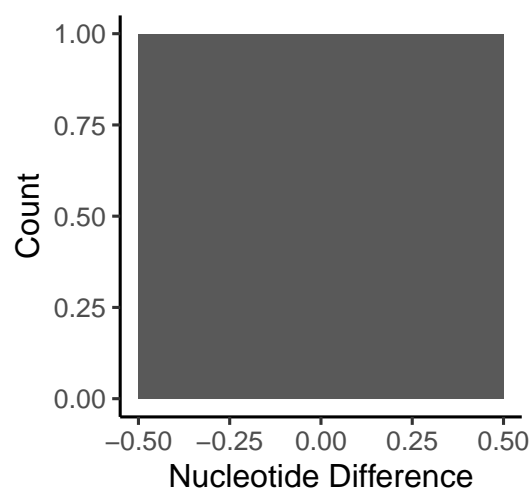
### TRBV28\*ap01

3035 sequences assigned  
3024 (99.6%) exact matches, in which:  
3001 unique CDR3  
13 unique J



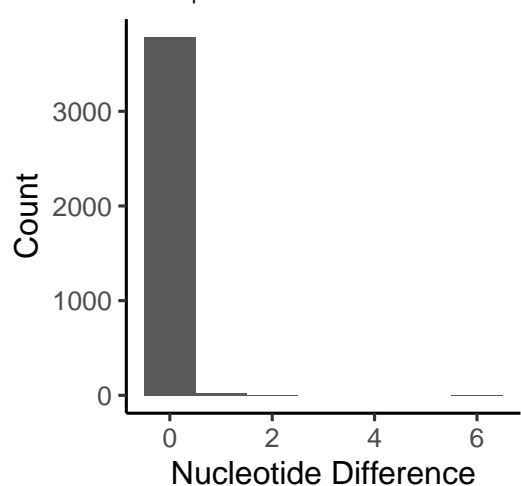
### TRBV17\*ap01

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



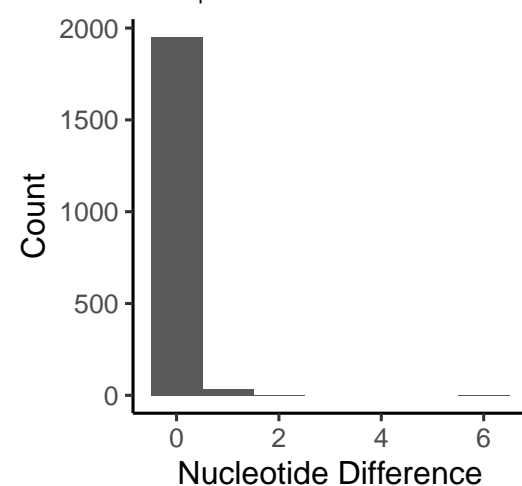
### TRBV2\*ap01

3810 sequences assigned  
3784 (99.3%) exact matches, in which:  
3756 unique CDR3  
13 unique J



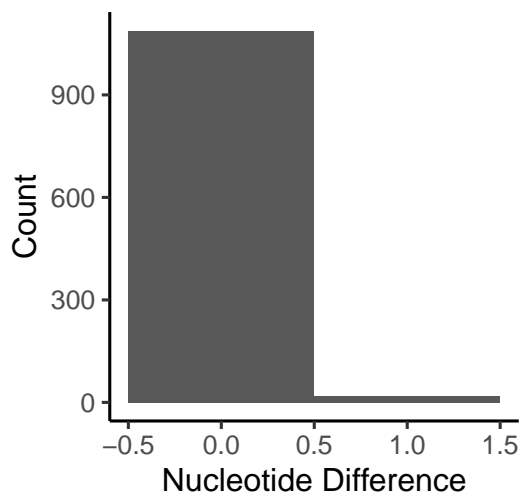
### TRBV30\*ap01

1987 sequences assigned  
1951 (98.2%) exact matches, in which:  
1930 unique CDR3  
13 unique J



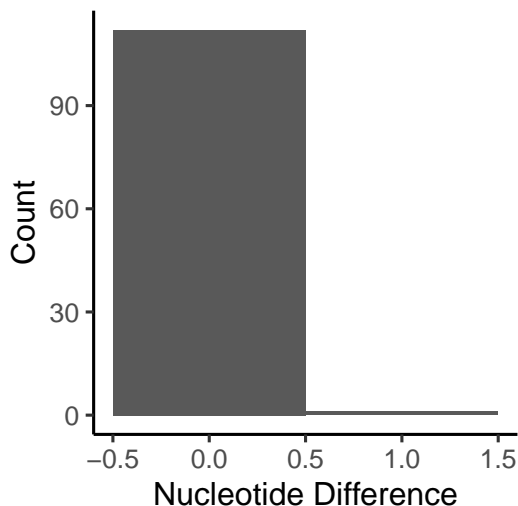
### TRBV30\*ap02

1106 sequences assigned  
1088 (98.4%) exact matches, in which:  
1068 unique CDR3  
13 unique J



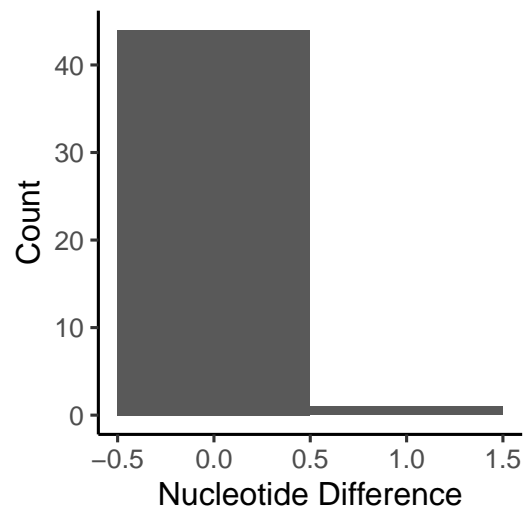
### TRBV11-1\*ap01

113 sequences assigned  
112 (99.1%) exact matches, in which:  
110 unique CDR3  
12 unique J



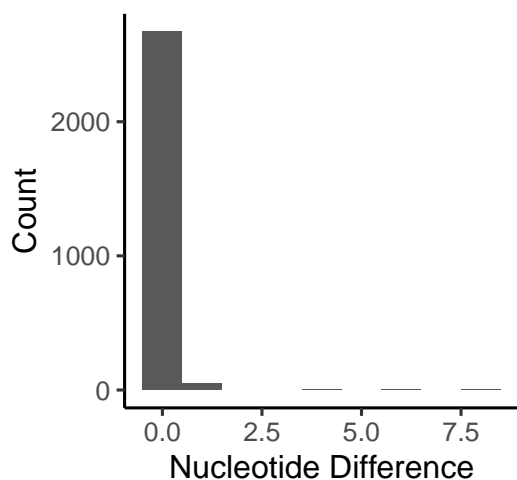
### TRBV12-1\*ap01

45 sequences assigned  
44 (97.8%) exact matches, in which:  
44 unique CDR3  
12 unique J



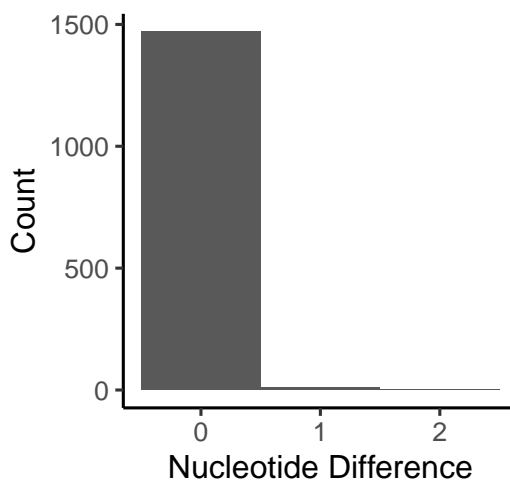
### TRBV9\*ap01

2722 sequences assigned  
2671 (98.1%) exact matches, in which:  
2648 unique CDR3  
13 unique J



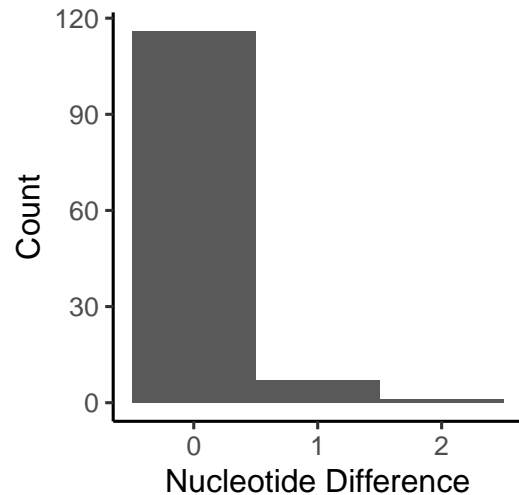
### TRBV11-2\*ap01

1481 sequences assigned  
1470 (99.3%) exact matches, in which:  
1453 unique CDR3  
13 unique J



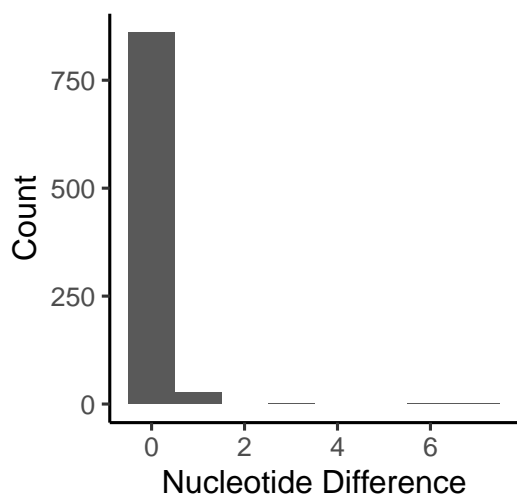
### TRBV12-2\*ap01

124 sequences assigned  
116 (93.5%) exact matches, in which:  
115 unique CDR3  
13 unique J



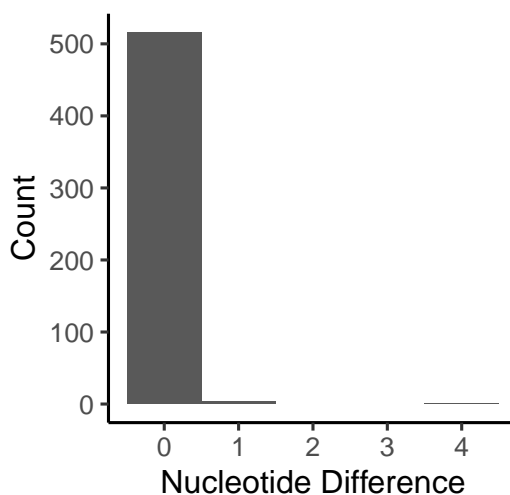
### TRBV21-1\*ap01

890 sequences assigned  
861 (96.7%) exact matches, in which:  
854 unique CDR3  
13 unique J



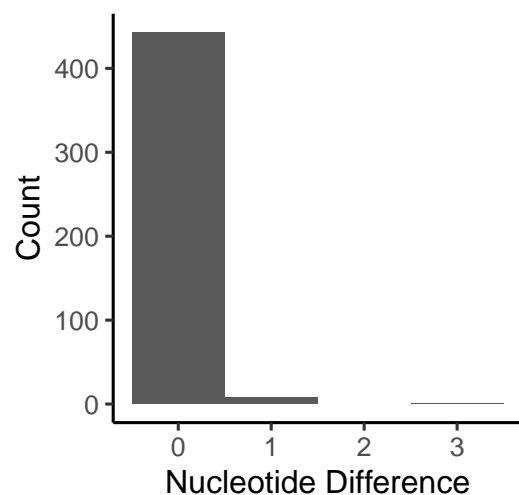
### TRBV11-3\*ap01

521 sequences assigned  
516 (99%) exact matches, in which:  
512 unique CDR3  
13 unique J



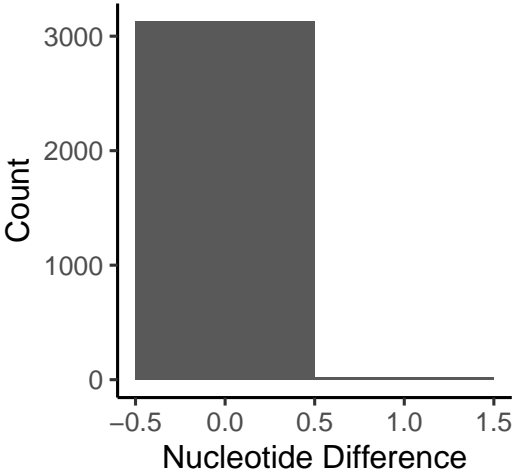
### TRBV12-5\*ap01

452 sequences assigned  
443 (98%) exact matches, in which:  
440 unique CDR3  
13 unique J



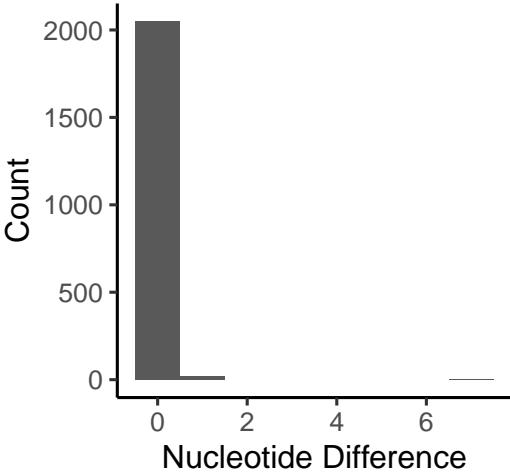
TRBV12-34\*ap01

3155 sequences assigned  
3129 (99.2%) exact matches, in which:  
3105 unique CDR3  
13 unique J



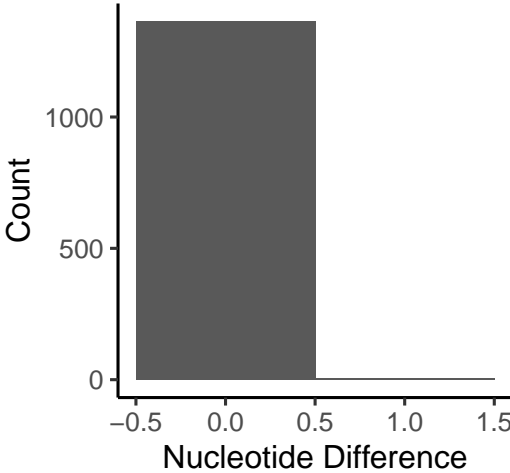
TRBV4-1\*ap01

2072 sequences assigned  
2049 (98.9%) exact matches, in which:  
2024 unique CDR3  
13 unique J



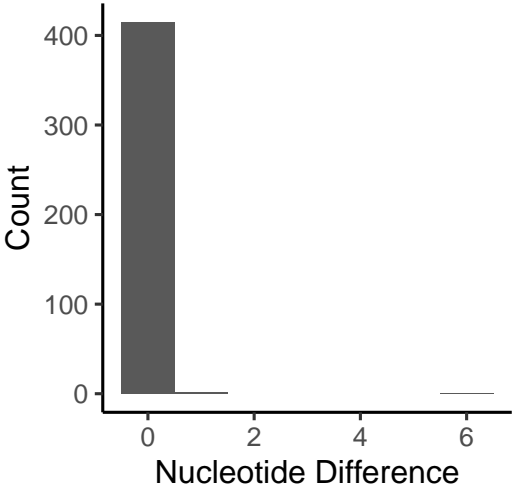
TRBV4-3\*ap01

1368 sequences assigned  
1364 (99.7%) exact matches, in which:  
1346 unique CDR3  
12 unique J



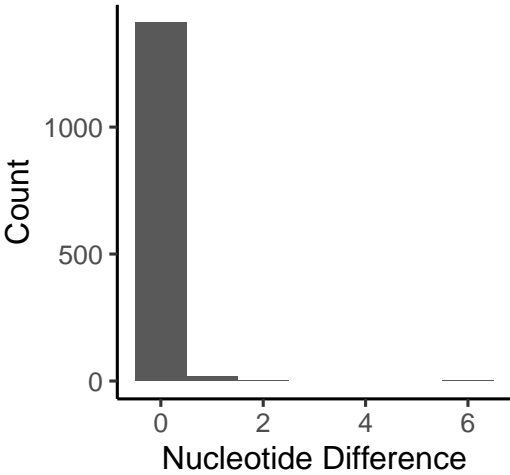
TRBV23-1\*ap01

418 sequences assigned  
415 (99.3%) exact matches, in which:  
414 unique CDR3  
13 unique J



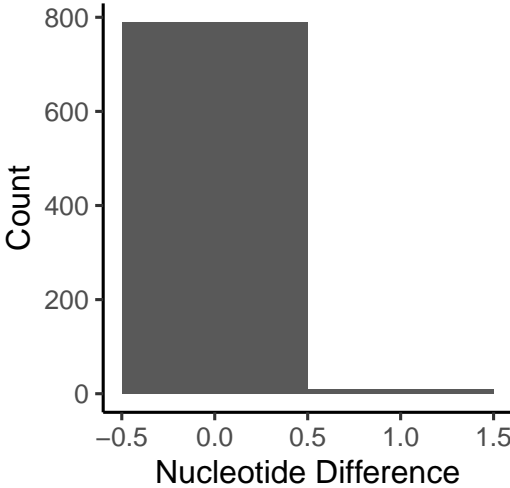
TRBV24-1\*ap01

1432 sequences assigned  
1411 (98.5%) exact matches, in which:  
1395 unique CDR3  
13 unique J



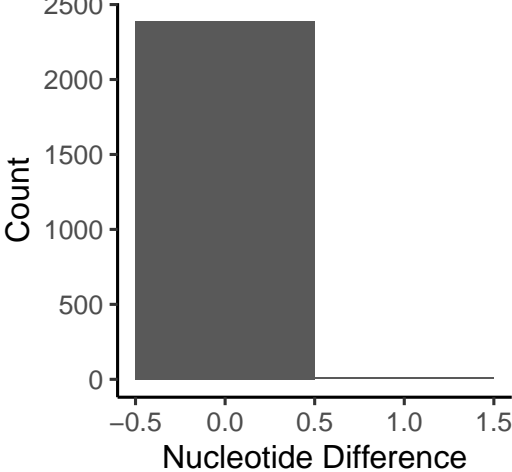
TRBV25-1\*ap01

799 sequences assigned  
790 (98.9%) exact matches, in which:  
779 unique CDR3  
13 unique J



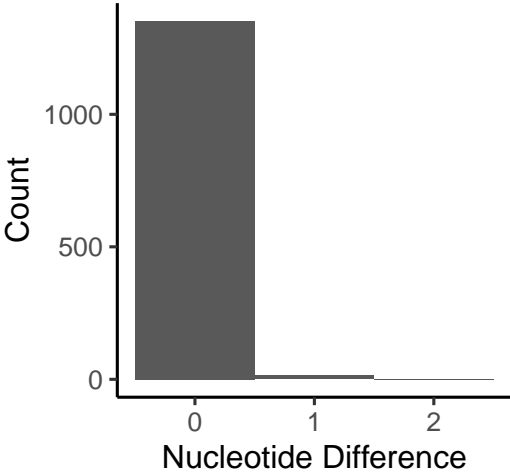
TRBV3-12\*ap01

2402 sequences assigned  
2390 (99.5%) exact matches, in which:  
2382 unique CDR3  
13 unique J



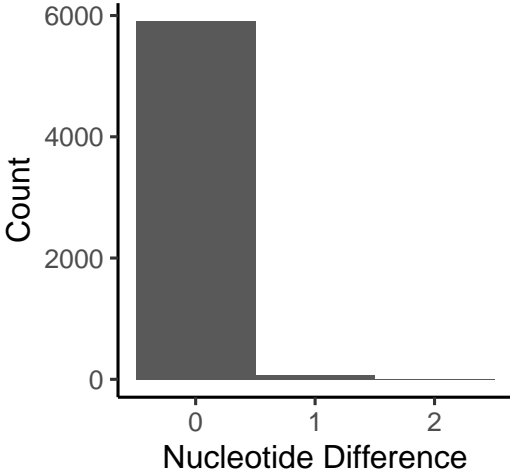
TRBV4-2\*ap01

1367 sequences assigned  
1352 (98.9%) exact matches, in which:  
1341 unique CDR3  
13 unique J



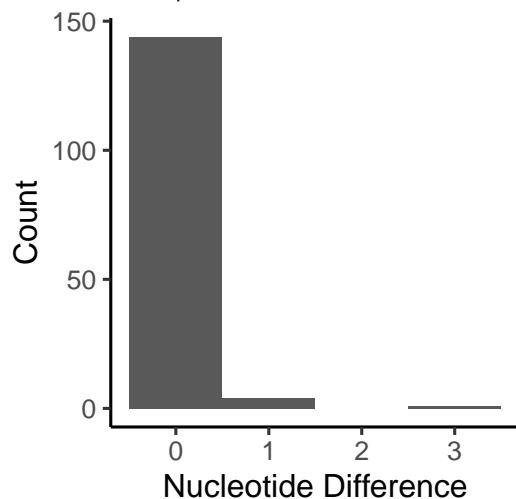
TRBV5-1\*ap01

5978 sequences assigned  
5909 (98.8%) exact matches, in which:  
5870 unique CDR3  
13 unique J



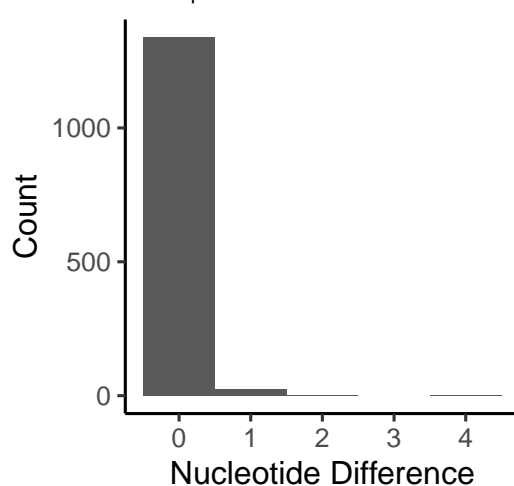
### TRBV5-3\*ap01

149 sequences assigned  
144 (96.6%) exact matches, in which:  
143 unique CDR3  
13 unique J



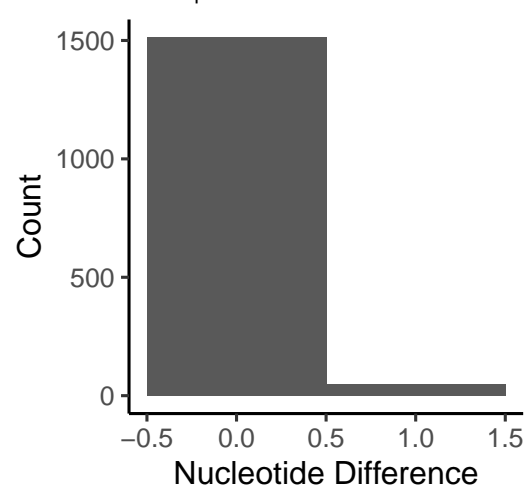
### TRBV5-6\*ap01

1364 sequences assigned  
1338 (98.1%) exact matches, in which:  
1329 unique CDR3  
13 unique J



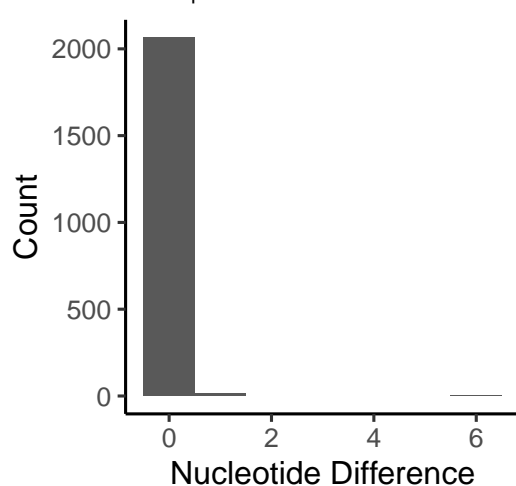
### TRBV6-1\*ap01

1560 sequences assigned  
1513 (97%) exact matches, in which:  
1495 unique CDR3  
13 unique J



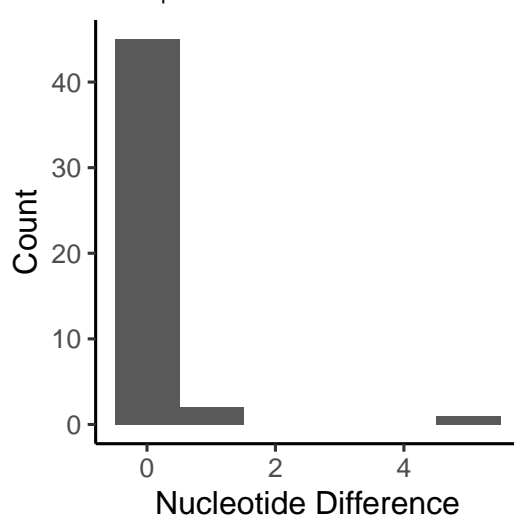
### TRBV5-4\*ap01

2078 sequences assigned  
2064 (99.3%) exact matches, in which:  
2048 unique CDR3  
13 unique J



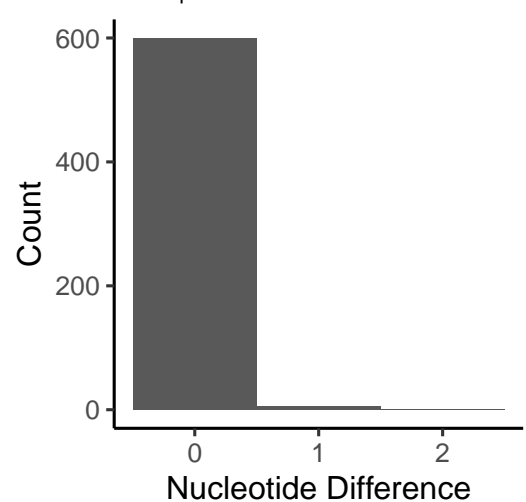
### TRBV5-7\*ap01

48 sequences assigned  
45 (93.8%) exact matches, in which:  
45 unique CDR3  
13 unique J



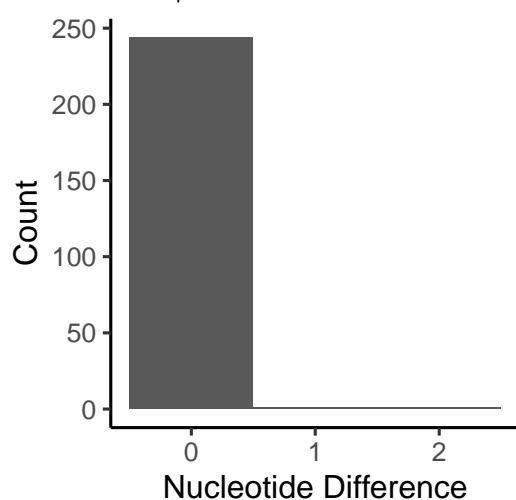
### TRBV6-4\*ap01

607 sequences assigned  
600 (98.8%) exact matches, in which:  
590 unique CDR3  
13 unique J



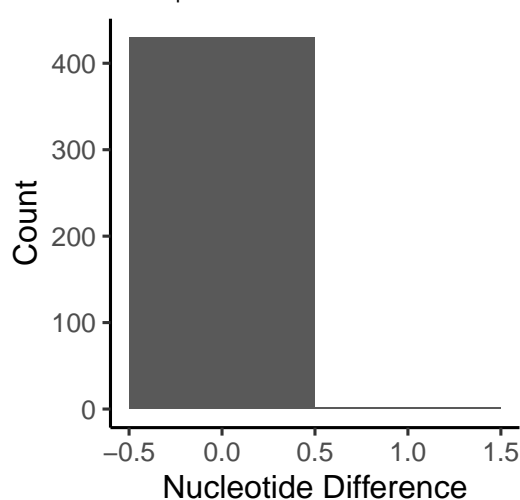
### TRBV5-5\*ap01

246 sequences assigned  
244 (99.2%) exact matches, in which:  
242 unique CDR3  
13 unique J



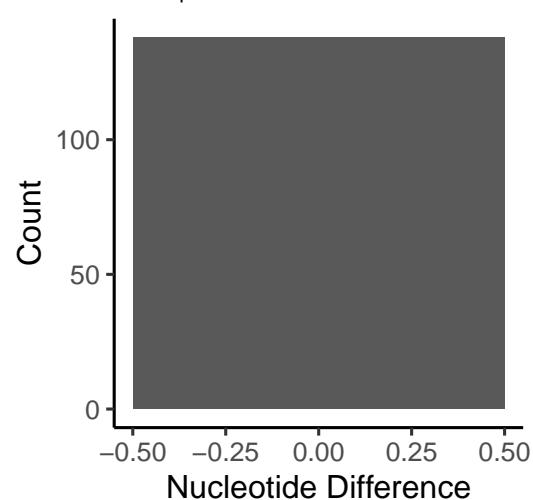
### TRBV5-8\*ap01

432 sequences assigned  
430 (99.5%) exact matches, in which:  
427 unique CDR3  
13 unique J



### TRBV6-7\*ap01

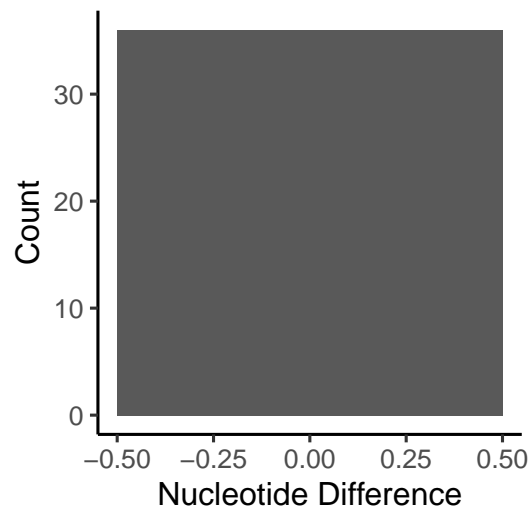
138 sequences assigned  
138 (100%) exact matches, in which:  
136 unique CDR3  
12 unique J





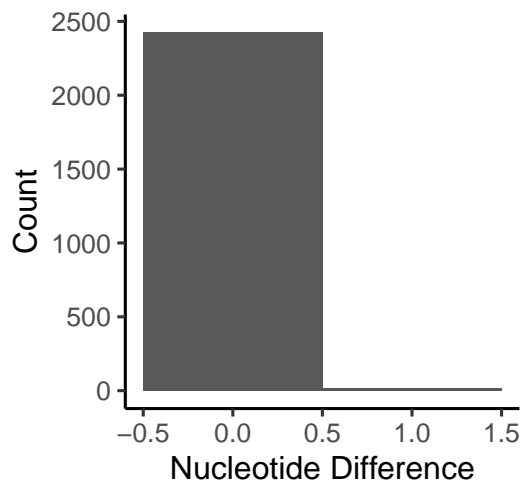
### TRBV6-8\*ap01

36 sequences assigned  
36 (100%) exact matches, in which:  
35 unique CDR3  
11 unique J



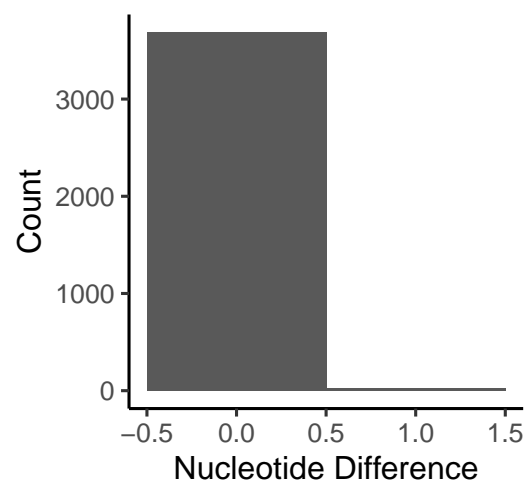
### TRBV6-56\*ap01

2444 sequences assigned  
2425 (99.2%) exact matches, in which:  
2394 unique CDR3  
13 unique J



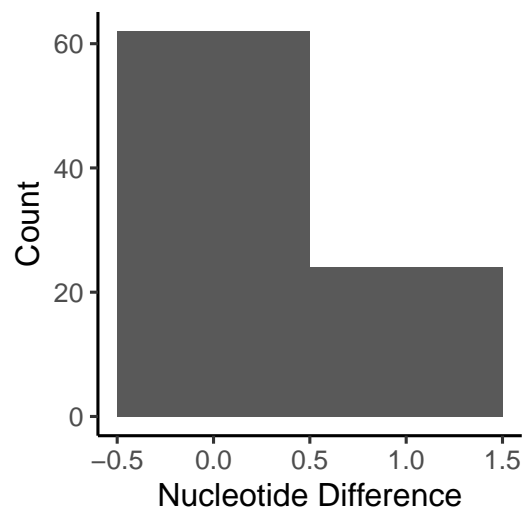
### TRBV7-2\*ap01

3707 sequences assigned  
3686 (99.4%) exact matches, in which:  
3652 unique CDR3  
13 unique J



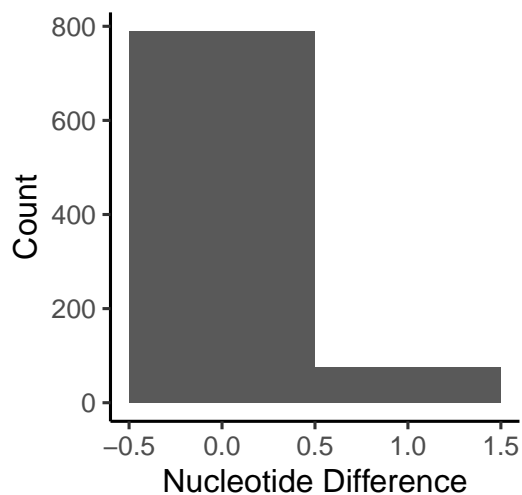
### TRBV6-9\*ap01

86 sequences assigned  
62 (72.1%) exact matches, in which:  
62 unique CDR3  
13 unique J



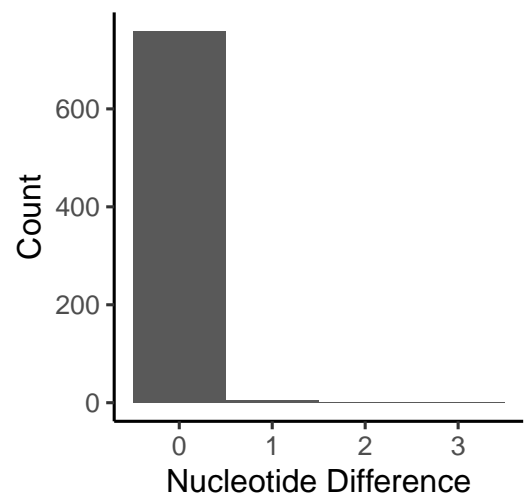
### TRBV6-56\*ap02

865 sequences assigned  
790 (91.3%) exact matches, in which:  
781 unique CDR3  
13 unique J



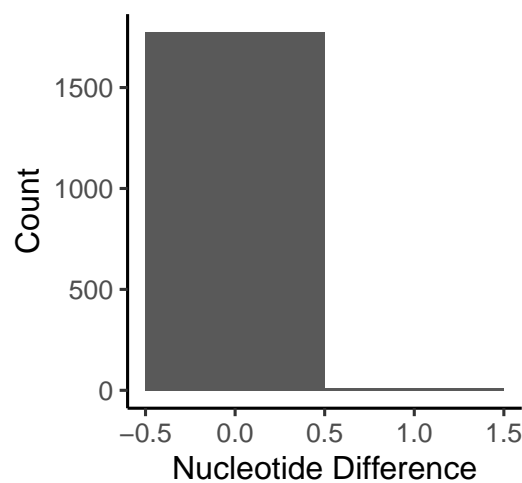
### TRBV7-3\*ap01

767 sequences assigned  
759 (99%) exact matches, in which:  
751 unique CDR3  
13 unique J



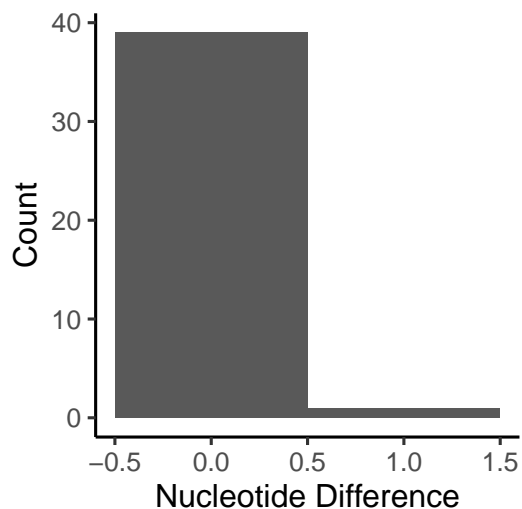
### TRBV6-23\*ap01

1786 sequences assigned  
1775 (99.4%) exact matches, in which:  
1759 unique CDR3  
13 unique J



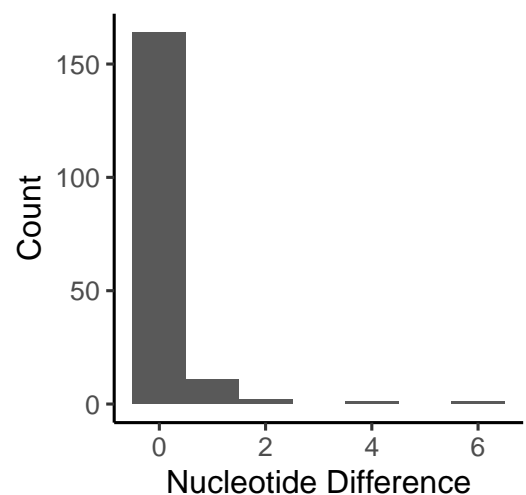
### TRBV7-1\*ap01\_G291C\_T

40 sequences assigned  
39 (97.5%) exact matches, in which:  
39 unique CDR3  
12 unique J



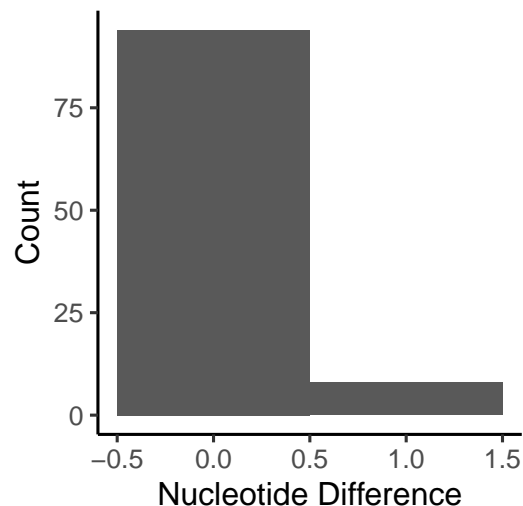
### TRBV7-3\*ap02

179 sequences assigned  
164 (91.6%) exact matches, in which:  
164 unique CDR3  
12 unique J



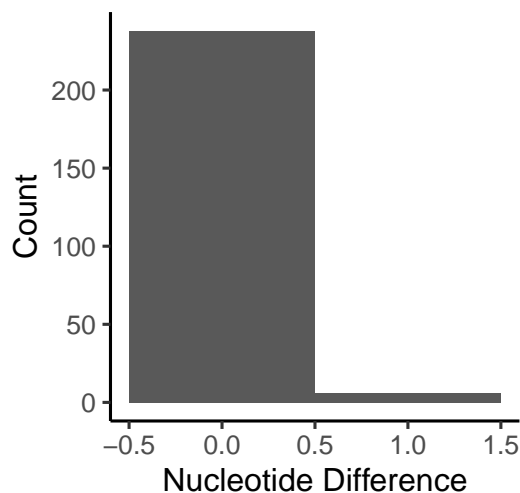
### TRBV7-4\*ap01

102 sequences assigned  
94 (92.2%) exact matches, in which:  
94 unique CDR3  
13 unique J



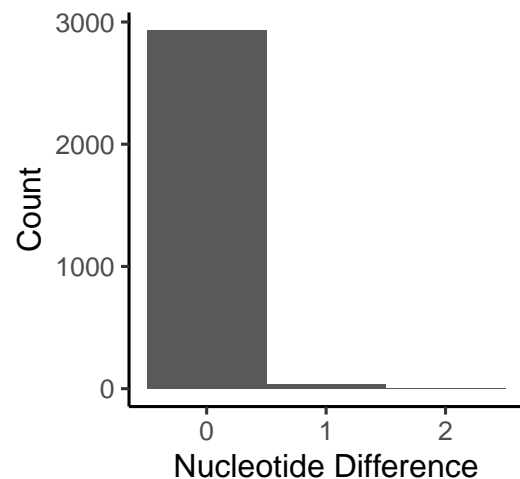
### TRBV7-7\*ap01\_C315T

244 sequences assigned  
238 (97.5%) exact matches, in which:  
231 unique CDR3  
13 unique J



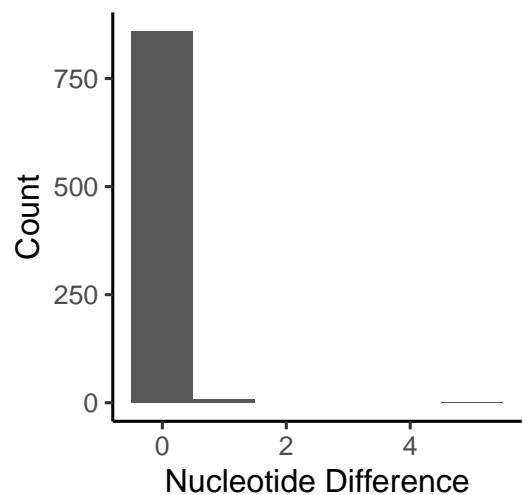
### TRBV7-9\*ap01

2970 sequences assigned  
2931 (98.7%) exact matches, in which:  
2904 unique CDR3  
13 unique J



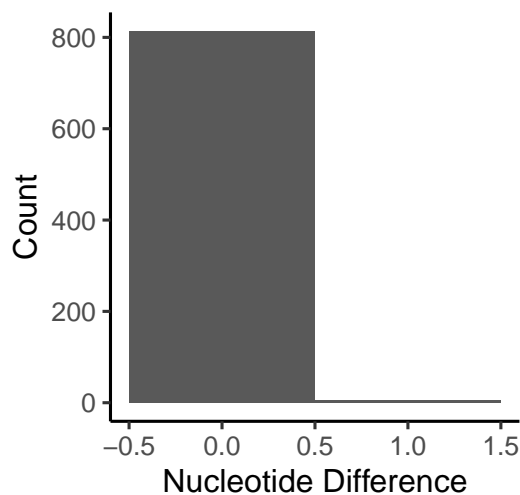
### TRBV7-6\*ap01

868 sequences assigned  
860 (99.1%) exact matches, in which:  
848 unique CDR3  
13 unique J



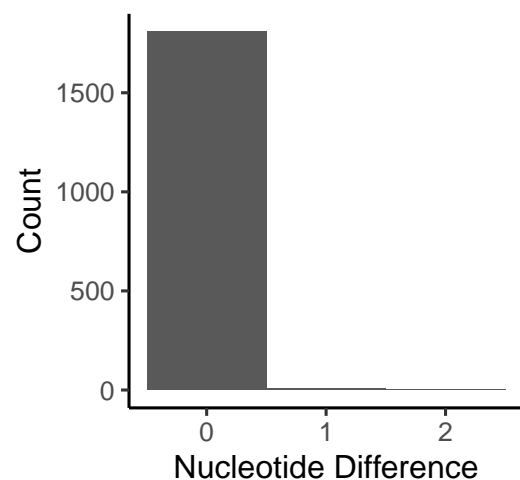
### TRBV7-8\*ap01

819 sequences assigned  
814 (99.4%) exact matches, in which:  
808 unique CDR3  
13 unique J



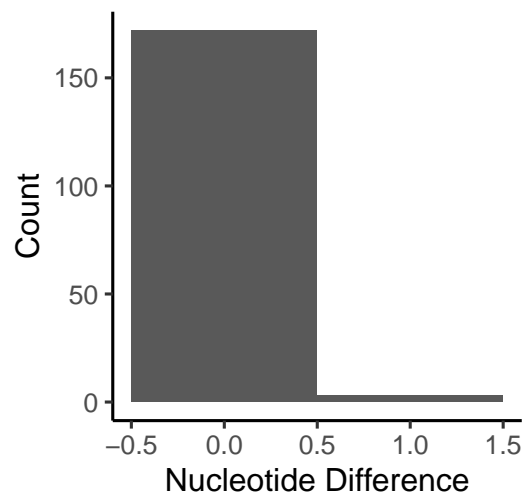
### TRBV29-1\*ap01

1818 sequences assigned  
1808 (99.4%) exact matches, in which:  
1772 unique CDR3  
13 unique J



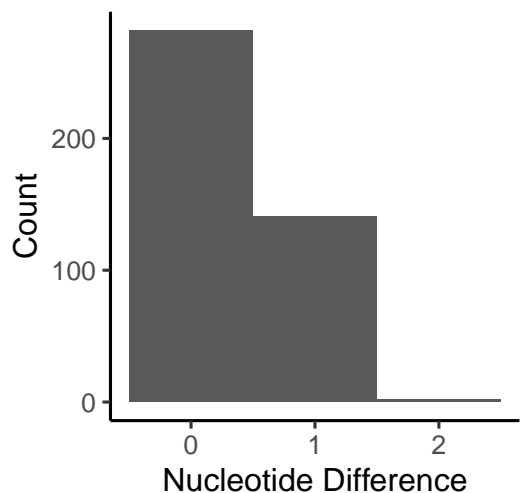
### TRBV7-7\*ap01

175 sequences assigned  
172 (98.3%) exact matches, in which:  
172 unique CDR3  
11 unique J



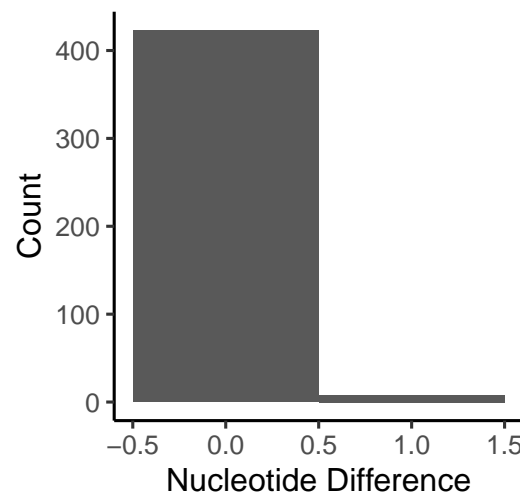
### TRBV7-8\*ap03

425 sequences assigned  
282 (66.4%) exact matches, in which:  
279 unique CDR3  
13 unique J

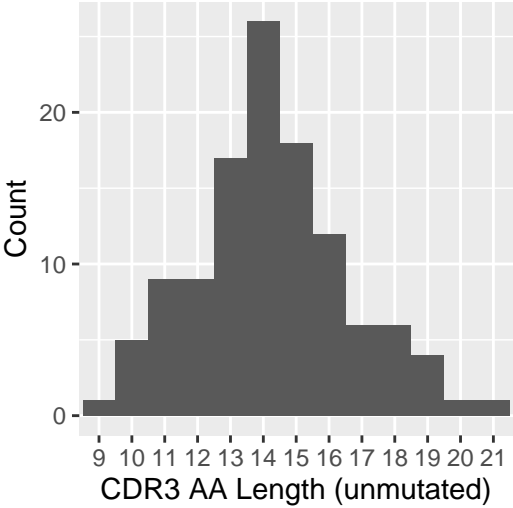


### TRBV29-1\*ap02

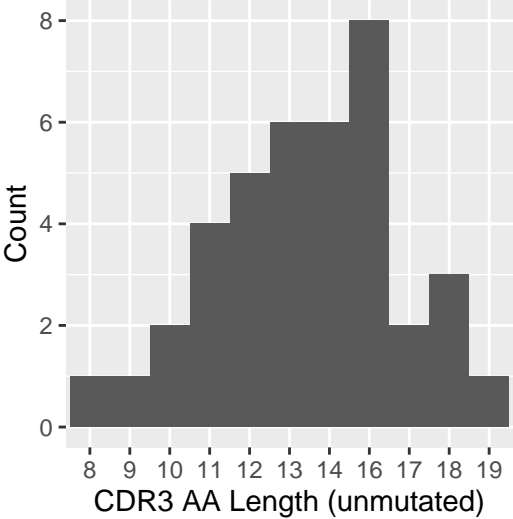
431 sequences assigned  
423 (98.1%) exact matches, in which:  
408 unique CDR3  
13 unique J



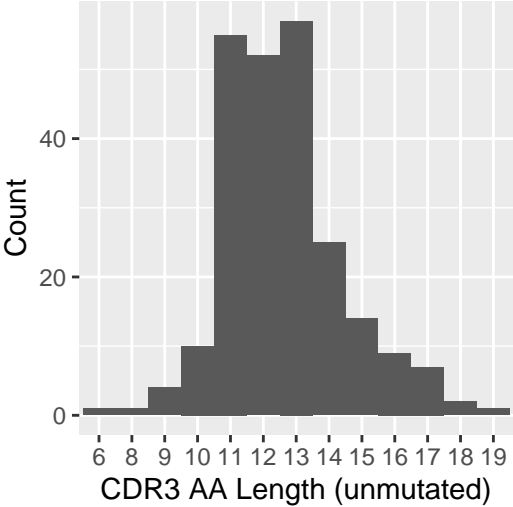
TRBV1\*ap01\_C302T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]