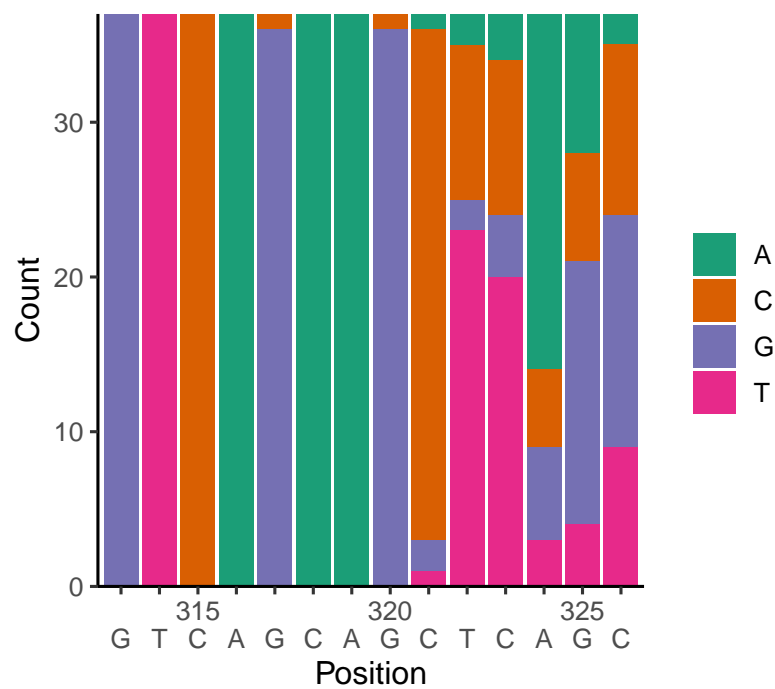
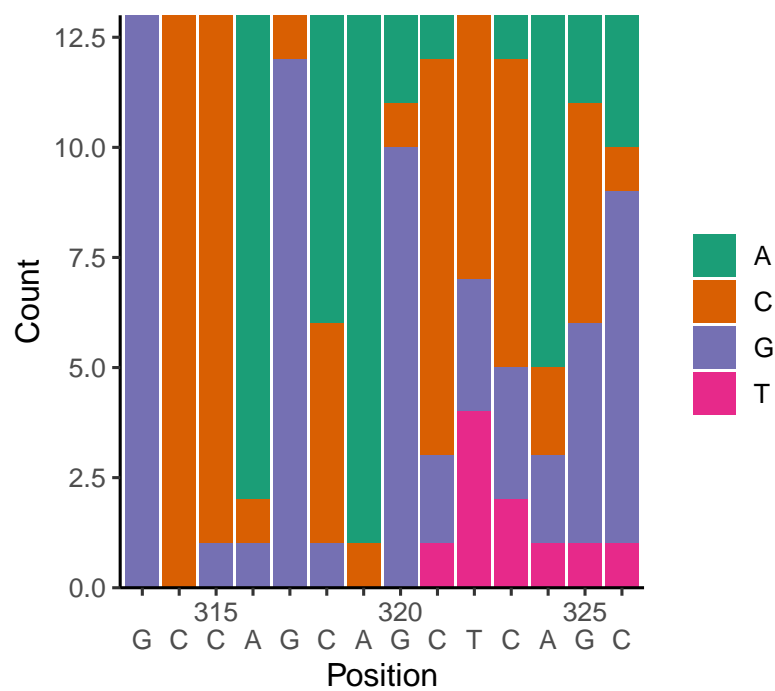


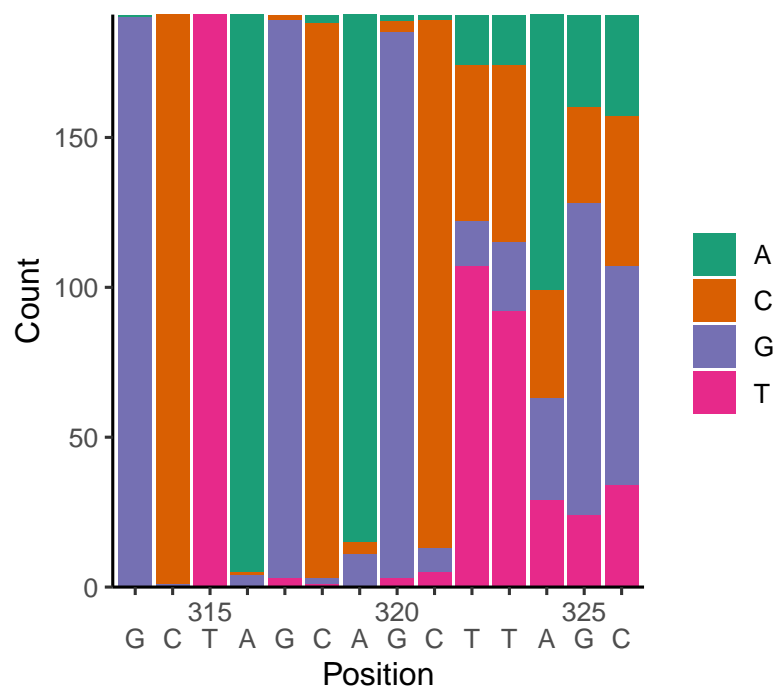
Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C



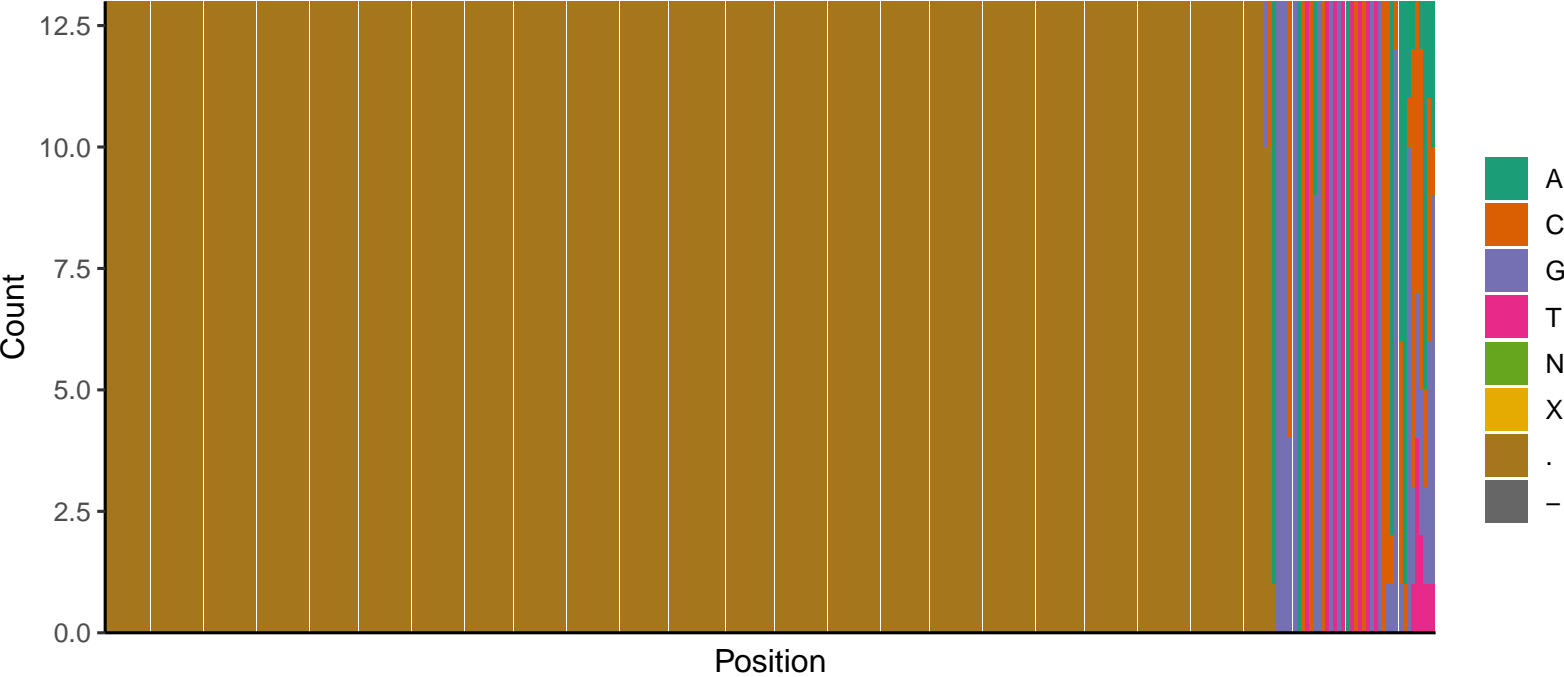
Gene TRBV7-7\*ap01\_C315T



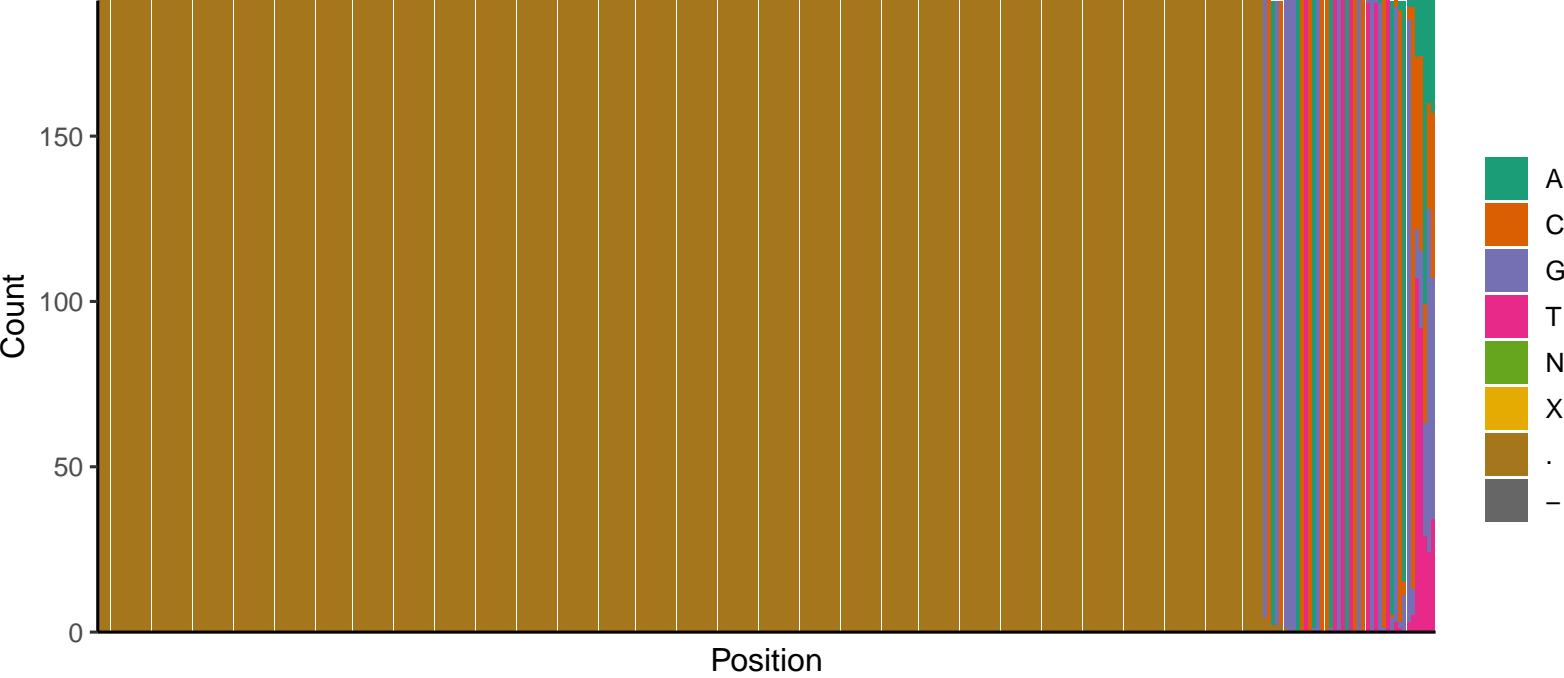
Gene TRBV7-1\*ap01\_T296C\_C314T



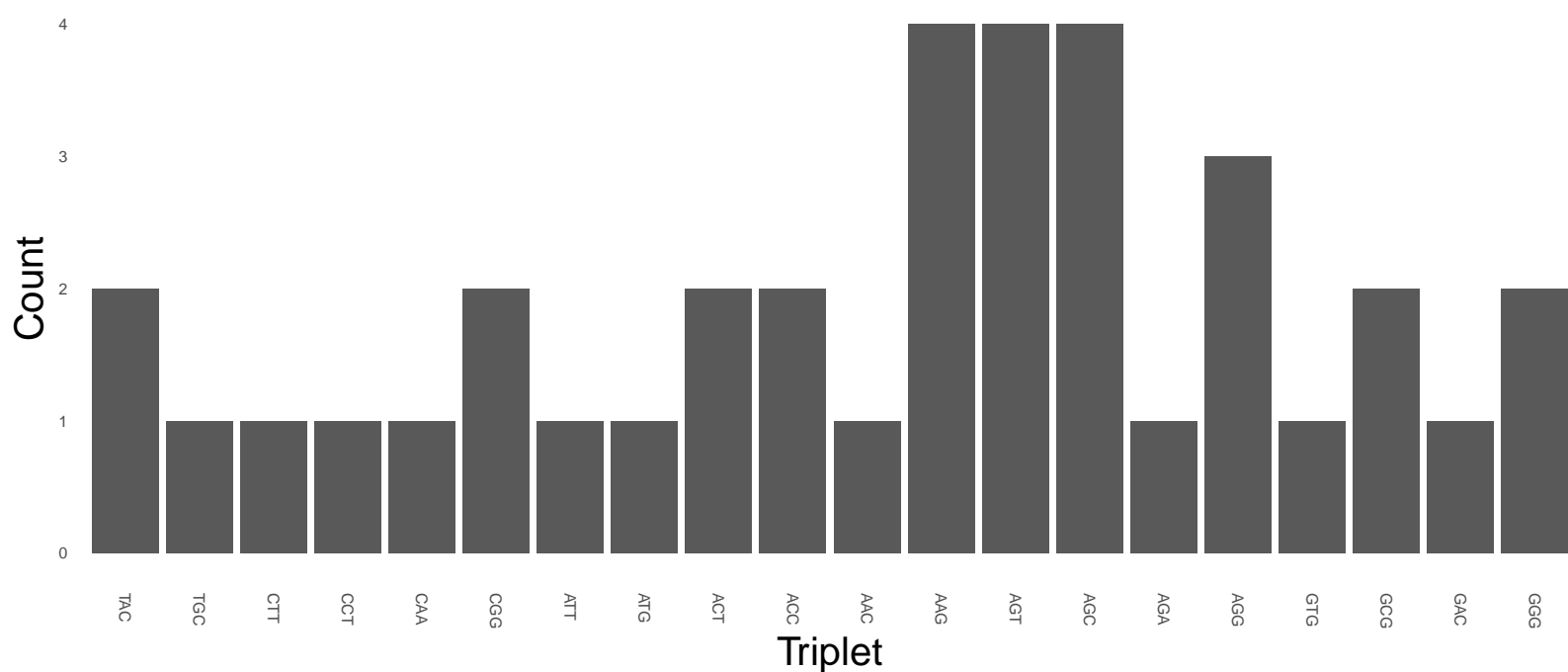
Gene TRBV7-1\*ap01\_T296C



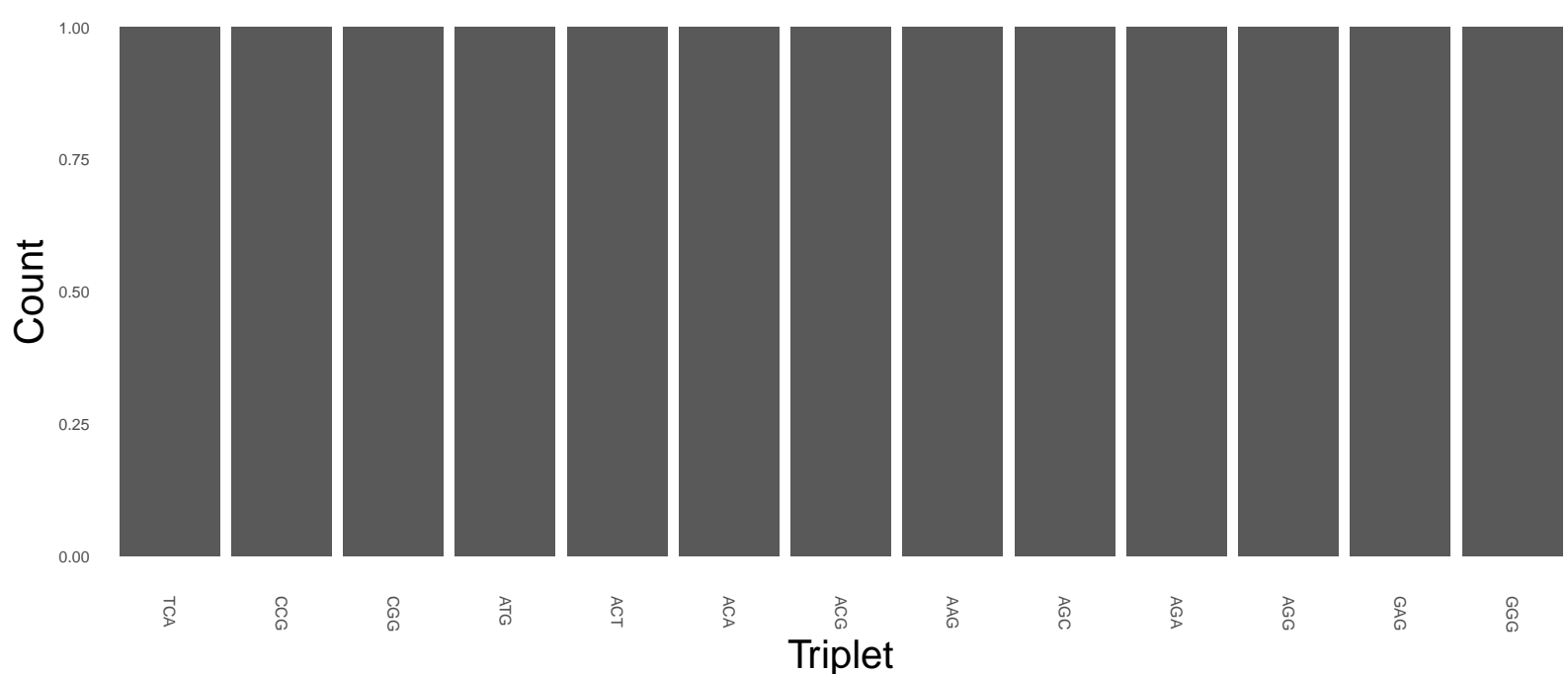
Gene TRBV7-7\*ap01\_C315T



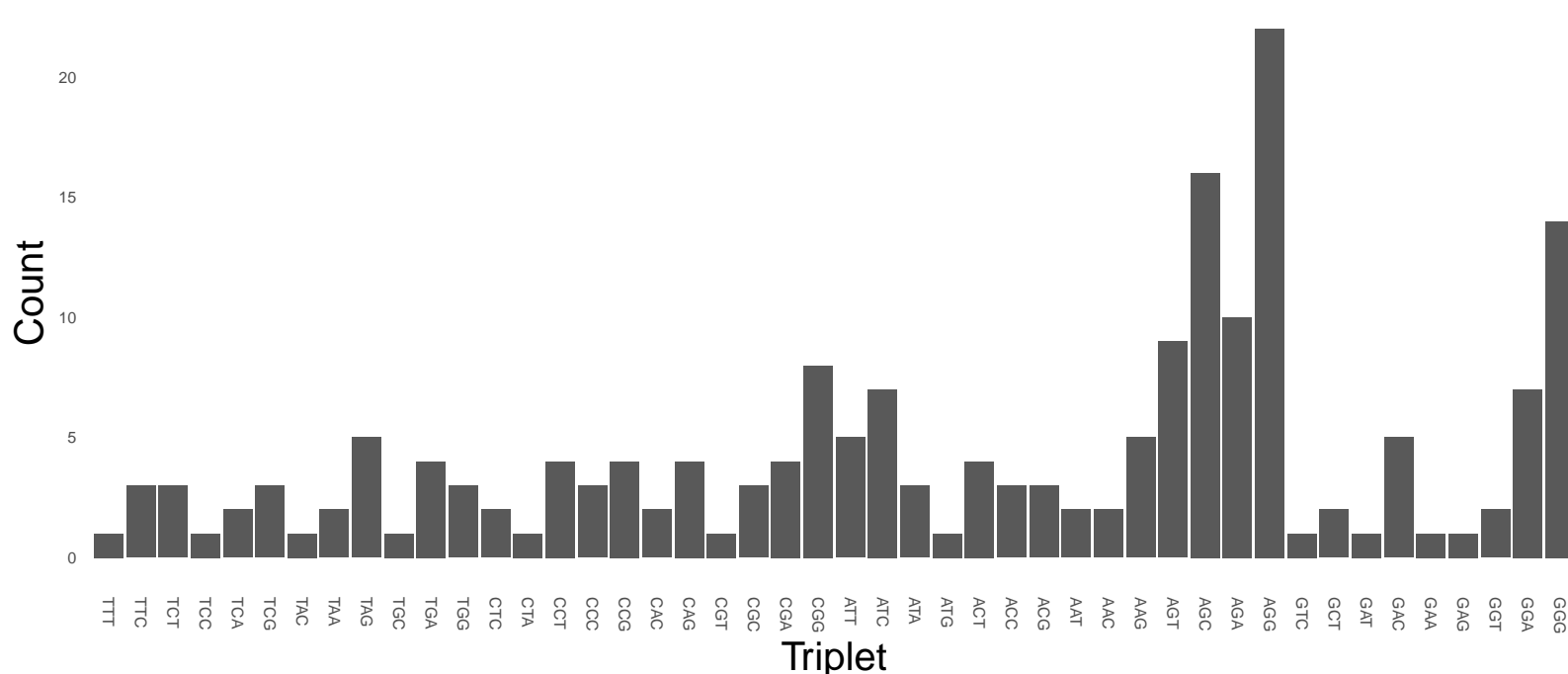
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



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

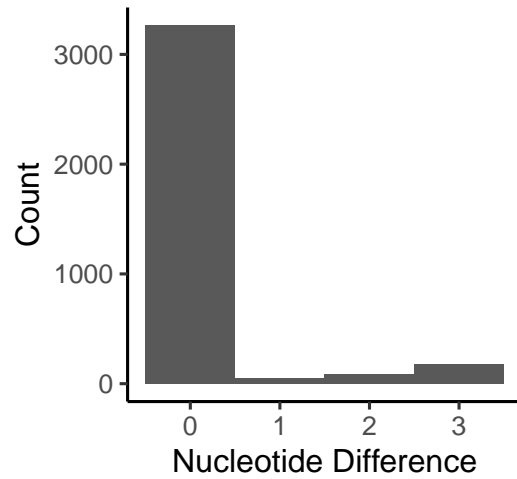


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



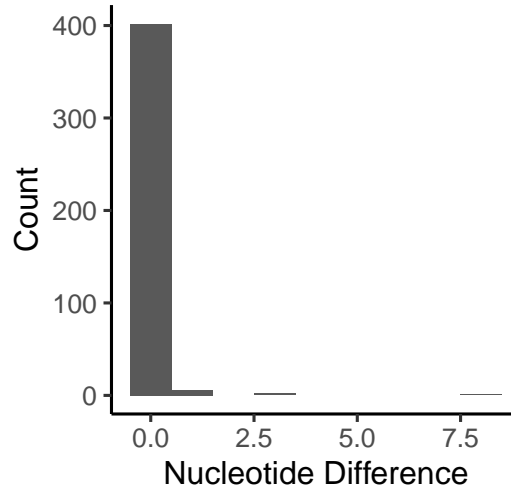
### TRBV20-1\*ap01

3572 sequences assigned  
3264 (91.4%) exact matches, in which:  
3174 unique CDR3  
13 unique J



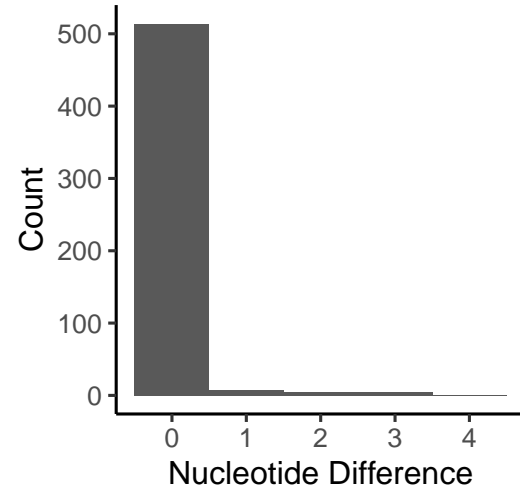
### TRBV10-2\*ap01

411 sequences assigned  
402 (97.8%) exact matches, in which:  
396 unique CDR3  
13 unique J



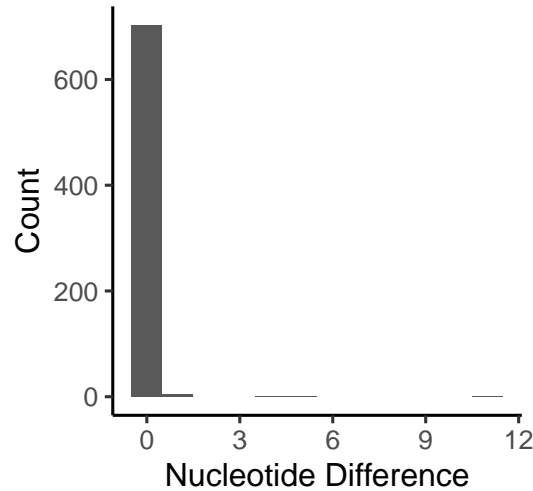
### TRBV13\*ap01

533 sequences assigned  
514 (96.4%) exact matches, in which:  
499 unique CDR3  
13 unique J



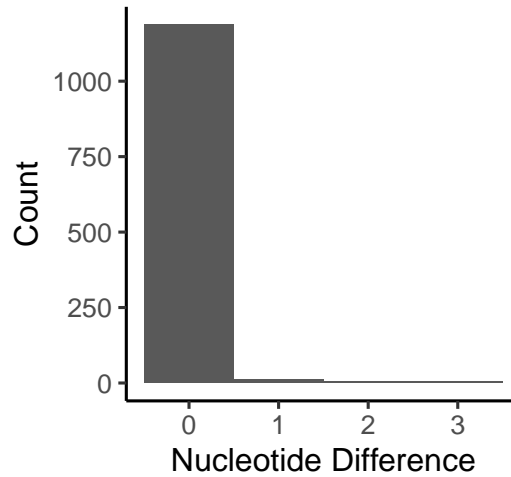
### TRBV10-1\*ap01

711 sequences assigned  
703 (98.9%) exact matches, in which:  
687 unique CDR3  
13 unique J



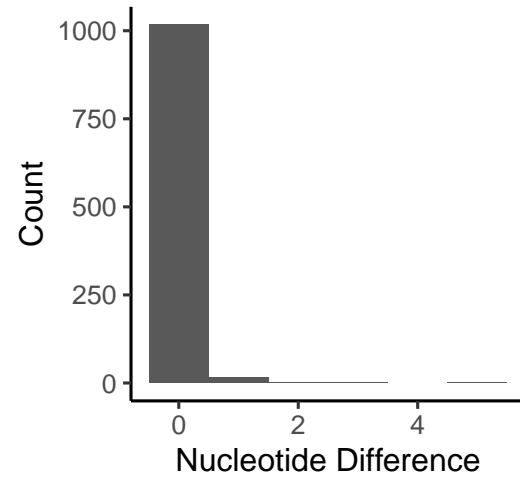
### TRBV10-3\*ap01

1207 sequences assigned  
1187 (98.3%) exact matches, in which:  
1162 unique CDR3  
13 unique J



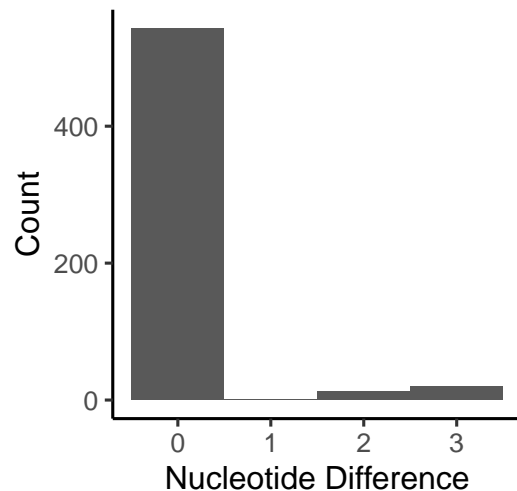
### TRBV14\*ap01

1036 sequences assigned  
1017 (98.2%) exact matches, in which:  
1002 unique CDR3  
13 unique J



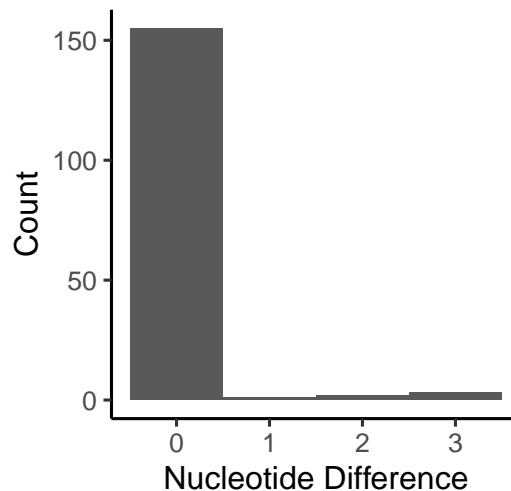
### TRBV20-1\*ap02

576 sequences assigned  
543 (94.3%) exact matches, in which:  
532 unique CDR3  
13 unique J



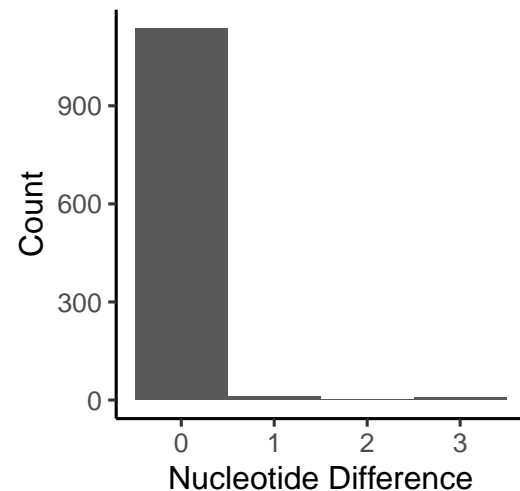
### TRBV1\*ap01

161 sequences assigned  
155 (96.3%) exact matches, in which:  
151 unique CDR3  
12 unique J



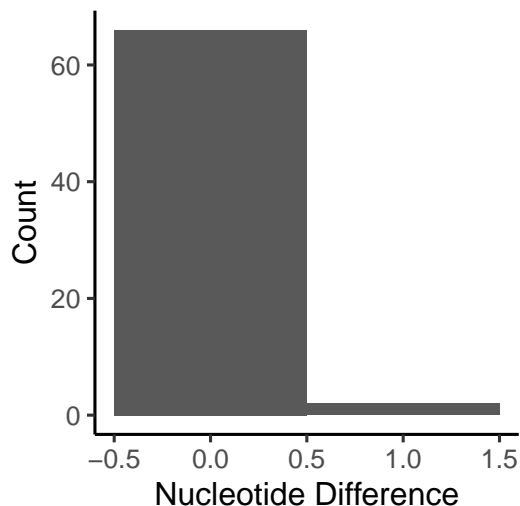
### TRBV15\*ap02

1160 sequences assigned  
1137 (98%) exact matches, in which:  
1121 unique CDR3  
13 unique J



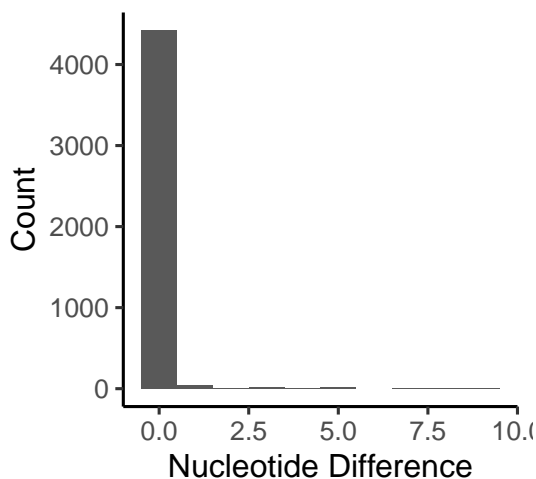
### TRBV16\*ap01

68 sequences assigned  
66 (97.1%) exact matches, in which:  
66 unique CDR3  
11 unique J



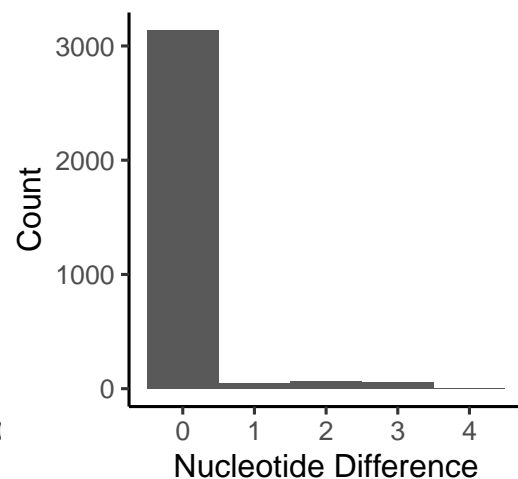
### TRBV19\*ap01

4528 sequences assigned  
4421 (97.6%) exact matches, in which:  
4356 unique CDR3  
13 unique J



### TRBV27\*ap01

3306 sequences assigned  
3136 (94.9%) exact matches, in which:  
3090 unique CDR3  
13 unique J



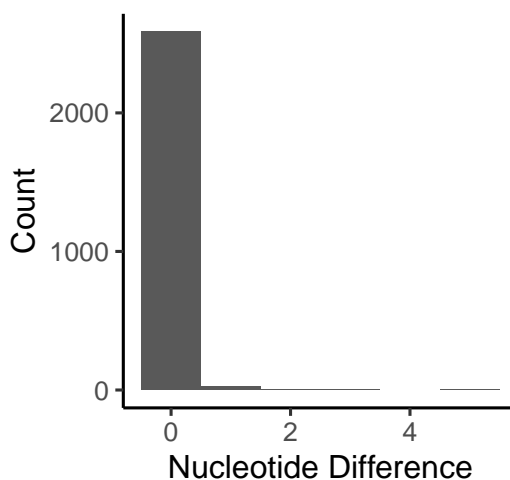
### TRBV17\*ap01

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



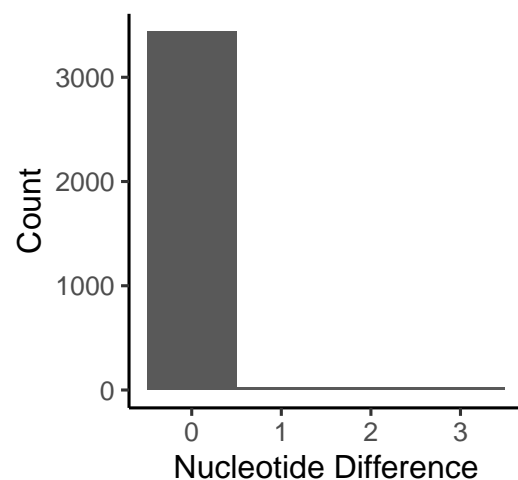
### TRBV2\*ap01

2620 sequences assigned  
2586 (98.7%) exact matches, in which:  
2556 unique CDR3  
13 unique J



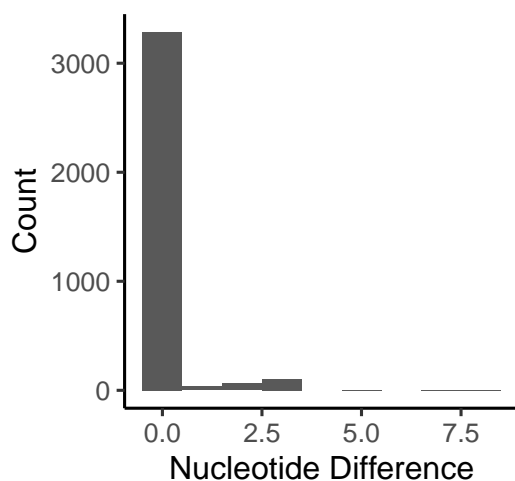
### TRBV28\*ap01

3511 sequences assigned  
3437 (97.9%) exact matches, in which:  
3374 unique CDR3  
13 unique J



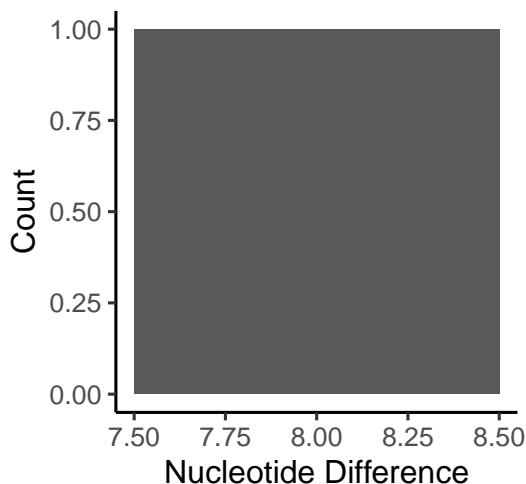
### TRBV18\*ap01

3490 sequences assigned  
3286 (94.2%) exact matches, in which:  
3210 unique CDR3  
13 unique J



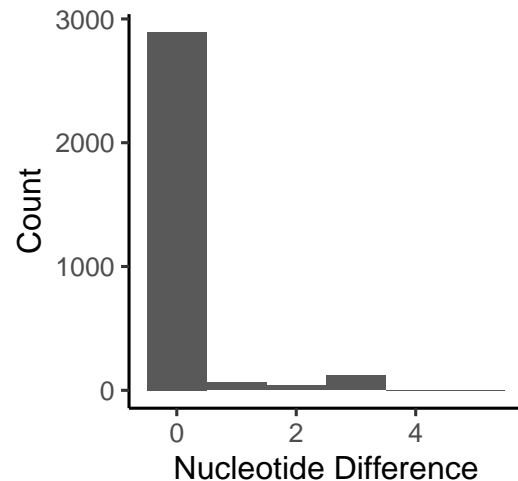
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



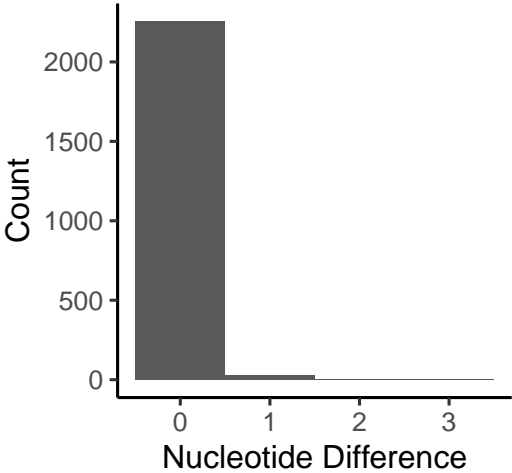
### TRBV30\*ap01

3119 sequences assigned  
2894 (92.8%) exact matches, in which:  
2827 unique CDR3  
13 unique J



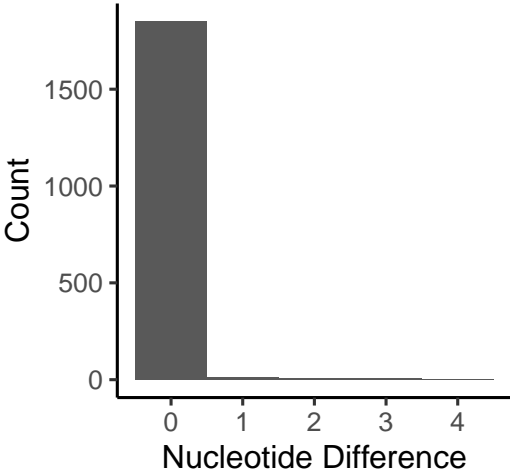
TRBV9\*ap01

2288 sequences assigned  
2255 (98.6%) exact matches, in which:  
2216 unique CDR3  
13 unique J



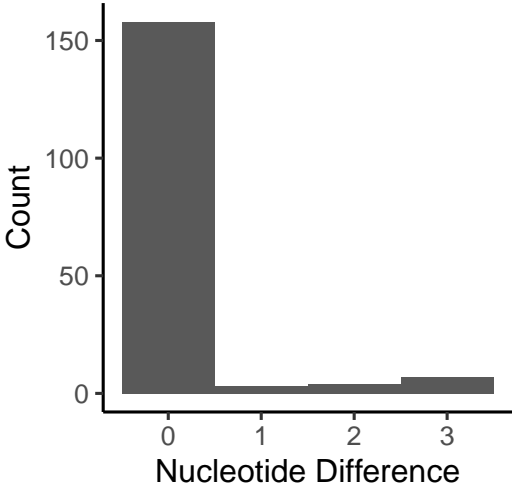
TRBV11-2\*ap01

1881 sequences assigned  
1850 (98.4%) exact matches, in which:  
1825 unique CDR3  
13 unique J



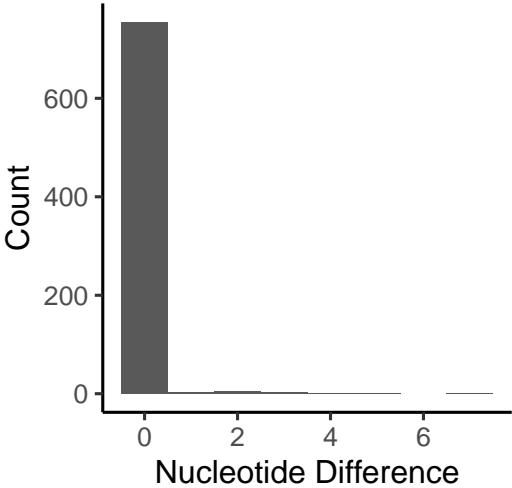
TRBV12-2\*ap01

172 sequences assigned  
158 (91.9%) exact matches, in which:  
154 unique CDR3  
12 unique J



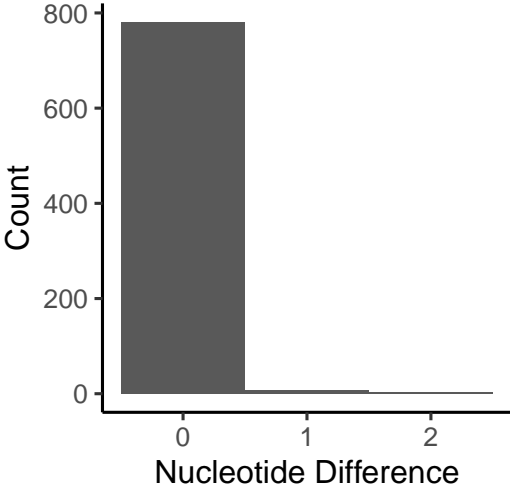
TRBV21-1\*ap01

772 sequences assigned  
755 (97.8%) exact matches, in which:  
752 unique CDR3  
13 unique J



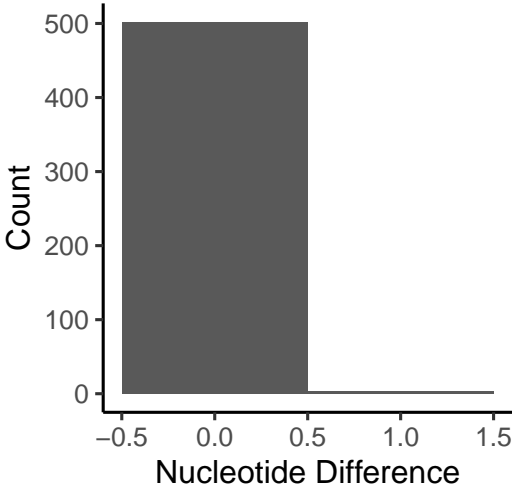
TRBV11-3\*ap01

792 sequences assigned  
781 (98.6%) exact matches, in which:  
773 unique CDR3  
13 unique J



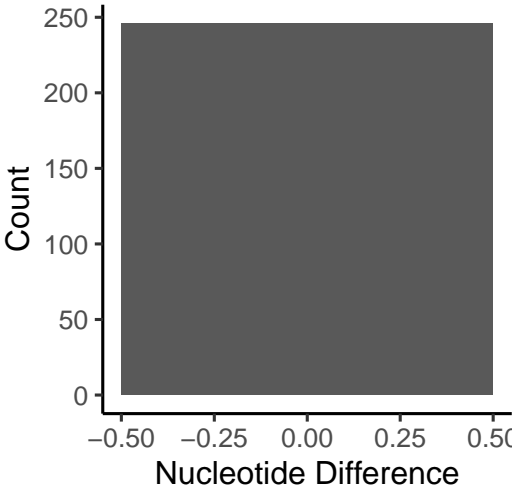
TRBV12-5\*ap01

505 sequences assigned  
502 (99.4%) exact matches, in which:  
495 unique CDR3  
13 unique J



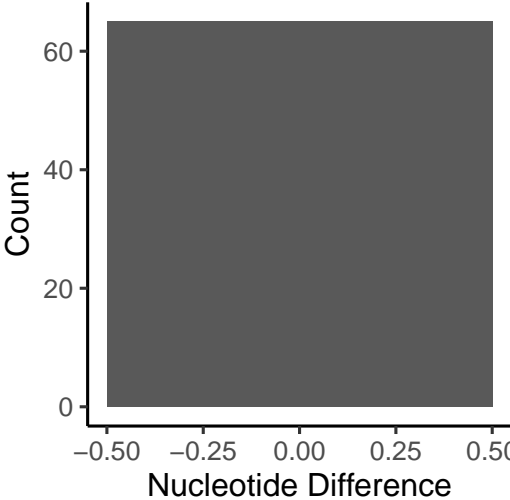
TRBV11-1\*ap01

246 sequences assigned  
246 (100%) exact matches, in which:  
245 unique CDR3  
13 unique J



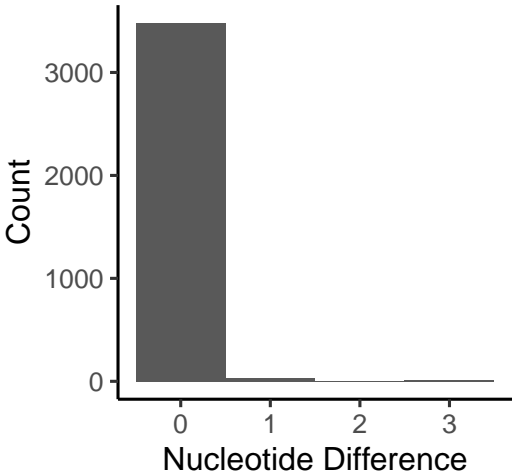
TRBV12-1\*ap01

65 sequences assigned  
65 (100%) exact matches, in which:  
64 unique CDR3  
11 unique J



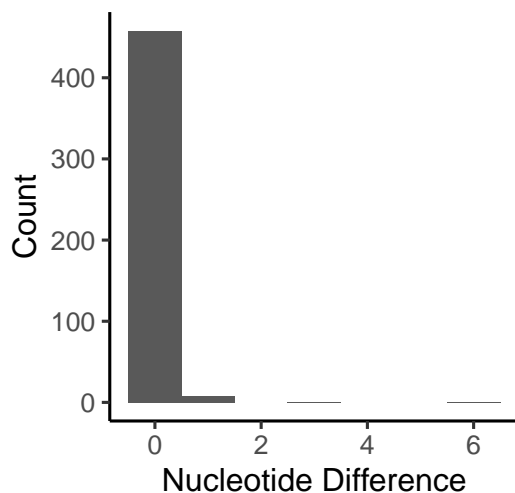
TRBV12-34\*ap01

3525 sequences assigned  
3480 (98.7%) exact matches, in which:  
3403 unique CDR3  
13 unique J



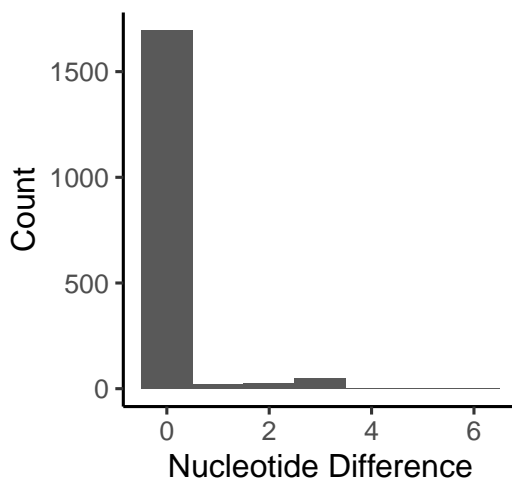
### TRBV23-1\*ap01

468 sequences assigned  
458 (97.9%) exact matches, in which:  
452 unique CDR3  
13 unique J



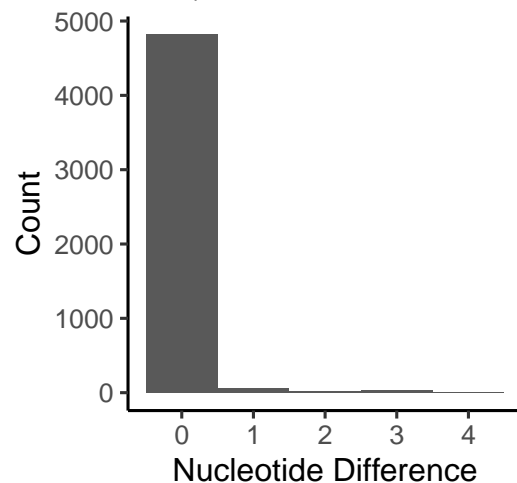
### TRBV24-1\*ap01

1796 sequences assigned  
1695 (94.4%) exact matches, in which:  
1667 unique CDR3  
13 unique J



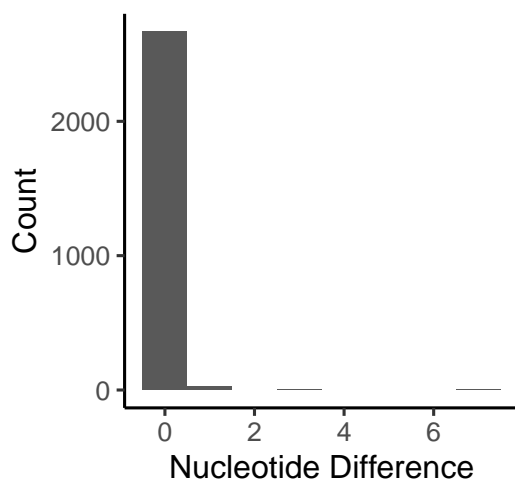
### TRBV5-1\*ap01

4936 sequences assigned  
4820 (97.6%) exact matches, in which:  
4724 unique CDR3  
13 unique J



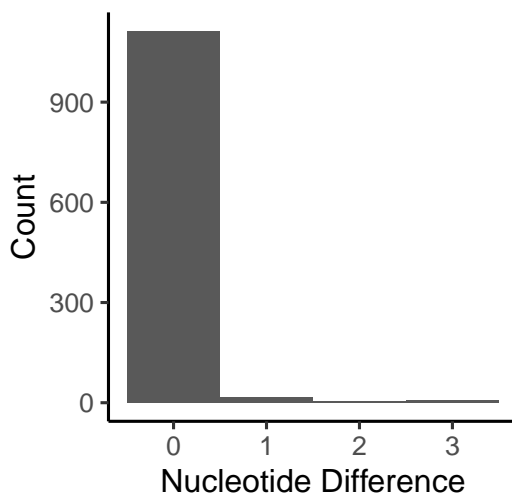
### TRBV3-12\*ap01

2695 sequences assigned  
2667 (99%) exact matches, in which:  
2619 unique CDR3  
13 unique J



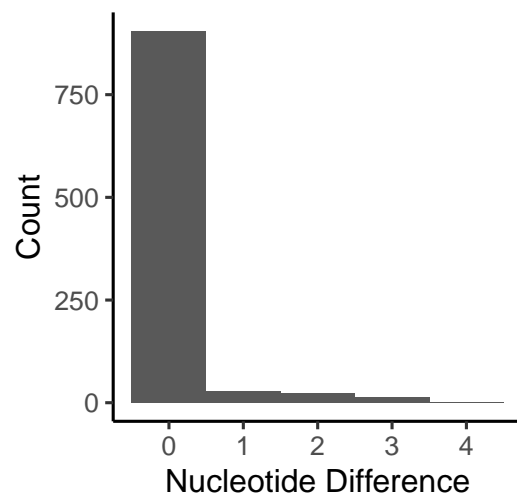
### TRBV4-2\*ap01

1139 sequences assigned  
1113 (97.7%) exact matches, in which:  
1076 unique CDR3  
13 unique J



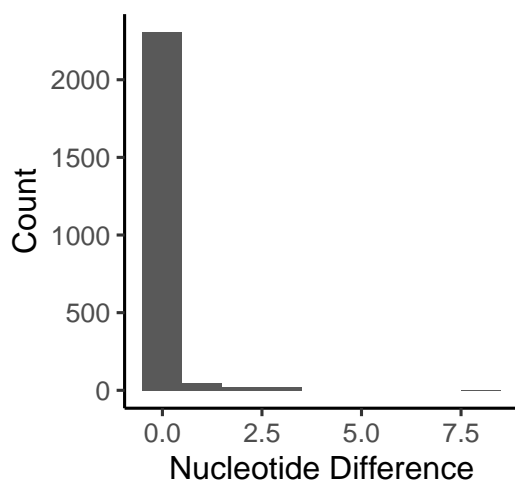
### TRBV25-1\*ap01

972 sequences assigned  
905 (93.1%) exact matches, in which:  
889 unique CDR3  
13 unique J



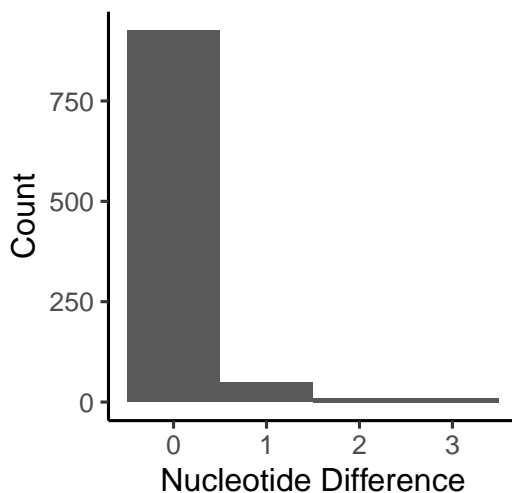
### TRBV4-1\*ap01

2401 sequences assigned  
2307 (96.1%) exact matches, in which:  
2245 unique CDR3  
13 unique J



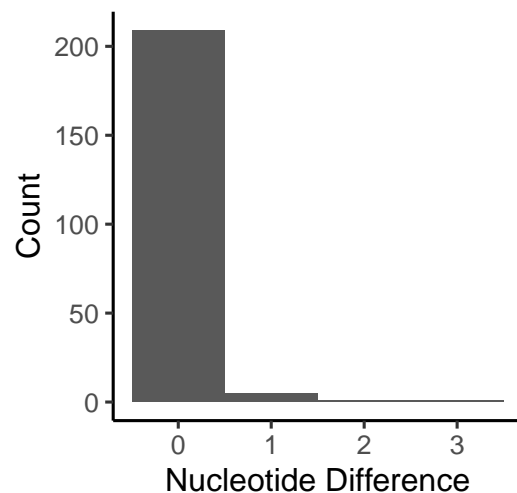
### TRBV4-3\*ap01

995 sequences assigned  
926 (93.1%) exact matches, in which:  
898 unique CDR3  
13 unique J



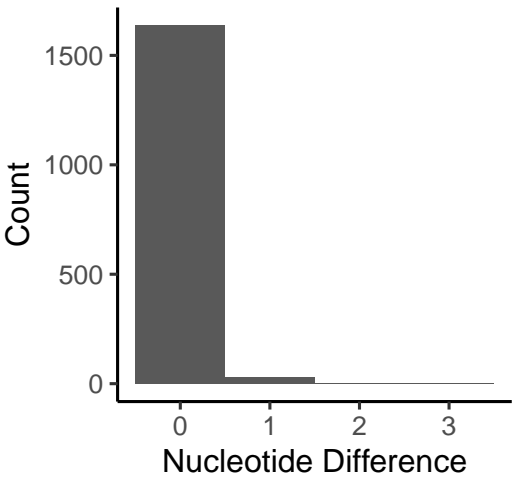
### TRBV5-3\*ap01

216 sequences assigned  
209 (96.8%) exact matches, in which:  
206 unique CDR3  
13 unique J



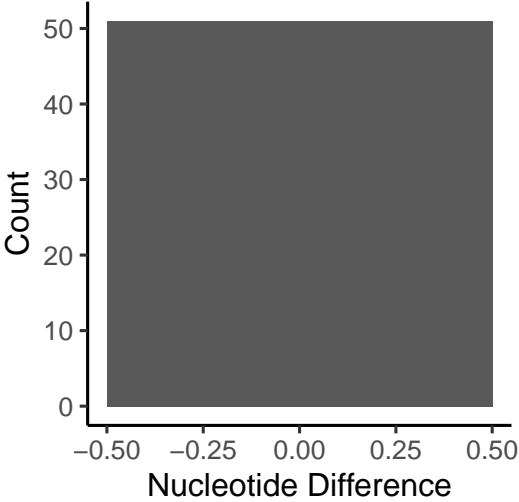
TRBV5-4\*ap01

1675 sequences assigned  
1637 (97.7%) exact matches, in which:  
1604 unique CDR3  
13 unique J



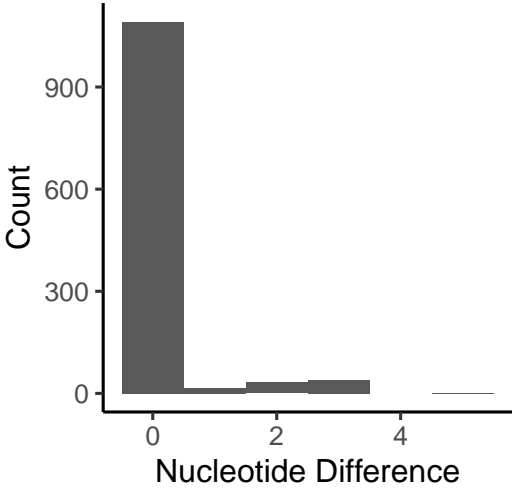
TRBV5-7\*ap01

51 sequences assigned  
51 (100%) exact matches, in which:  
48 unique CDR3  
10 unique J



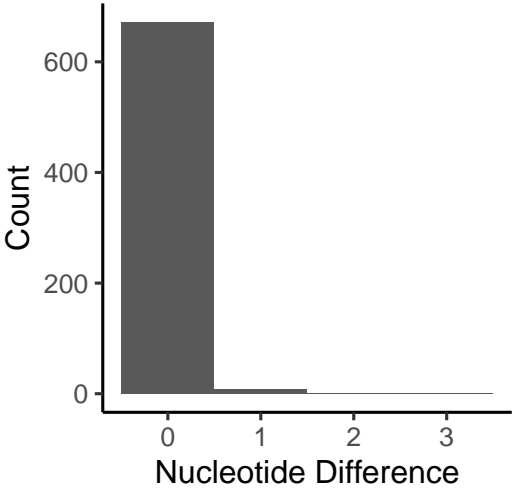
TRBV6-4\*ap01

1182 sequences assigned  
1092 (92.4%) exact matches, in which:  
1075 unique CDR3  
13 unique J



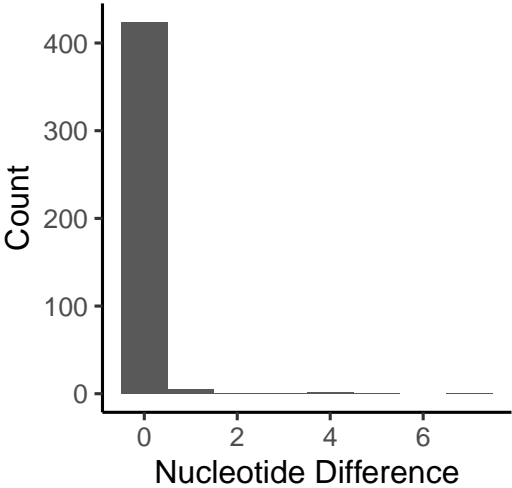
TRBV5-5\*ap01

682 sequences assigned  
672 (98.5%) exact matches, in which:  
664 unique CDR3  
13 unique J



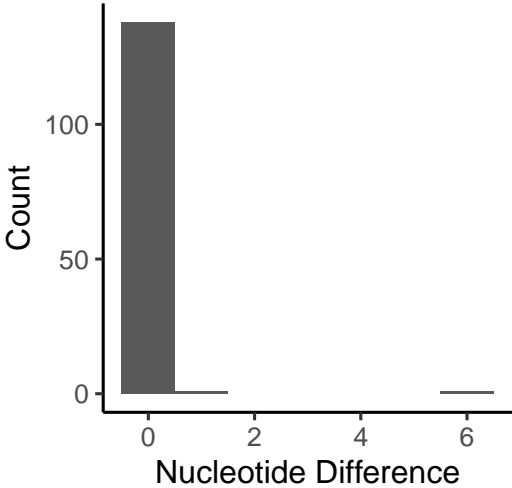
TRBV5-8\*ap01

435 sequences assigned  
424 (97.5%) exact matches, in which:  
420 unique CDR3  
13 unique J



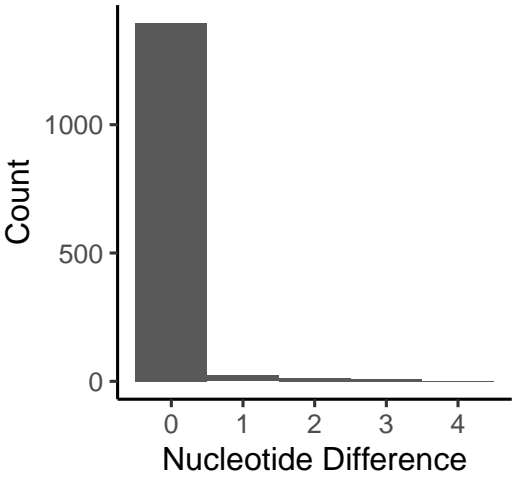
TRBV6-7\*ap01

140 sequences assigned  
138 (98.6%) exact matches, in which:  
132 unique CDR3  
10 unique J



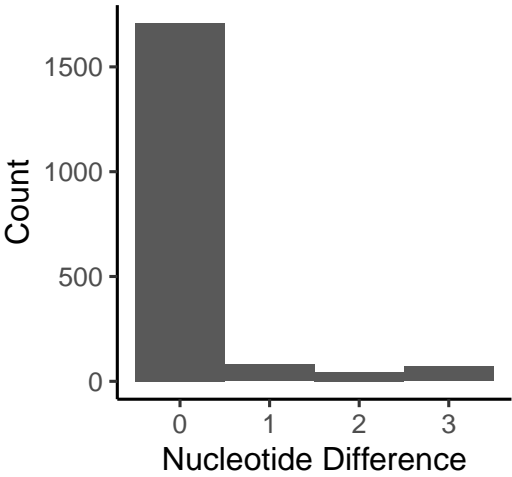
TRBV5-6\*ap01

1440 sequences assigned  
1396 (96.9%) exact matches, in which:  
1358 unique CDR3  
13 unique J



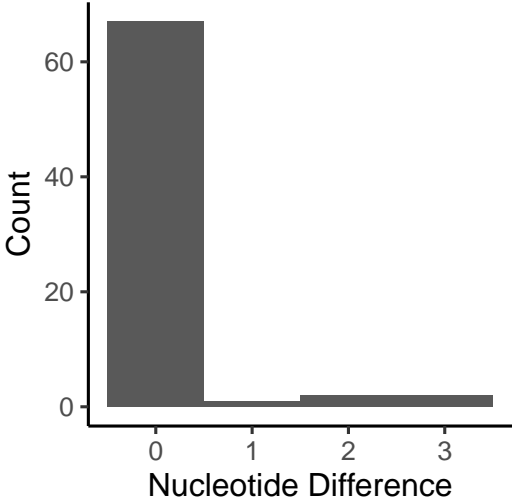
TRBV6-1\*ap01

1904 sequences assigned  
1709 (89.8%) exact matches, in which:  
1676 unique CDR3  
13 unique J



TRBV6-8\*ap01

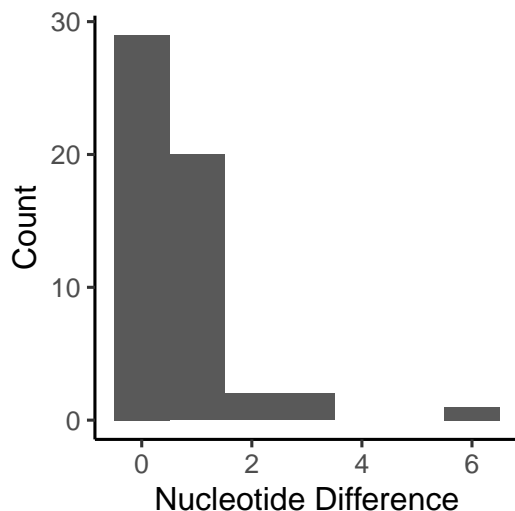
72 sequences assigned  
67 (93.1%) exact matches, in which:  
66 unique CDR3  
13 unique J





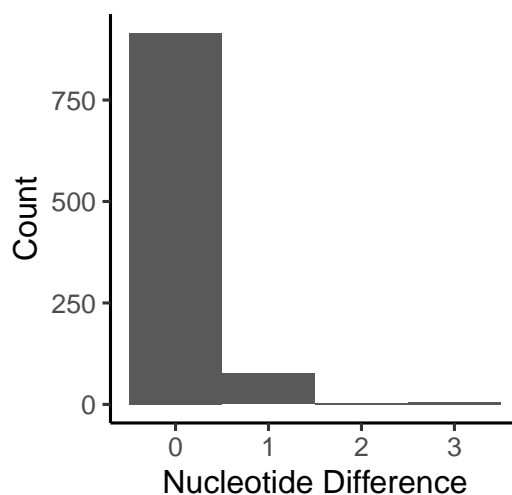
### TRBV6-9\*ap01

54 sequences assigned  
29 (53.7%) exact matches, in which:  
28 unique CDR3  
11 unique J



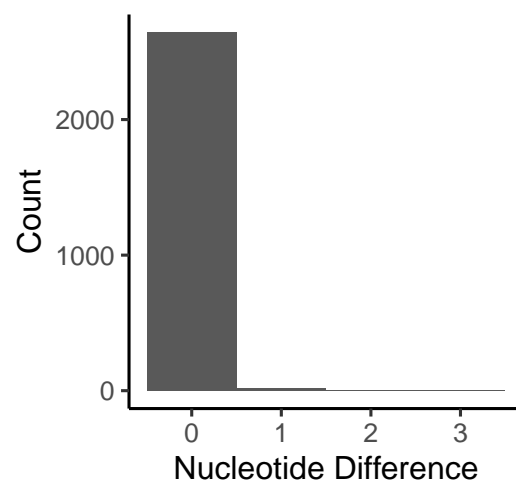
### TRBV6-56\*ap02

1000 sequences assigned  
916 (91.6%) exact matches, in which:  
890 unique CDR3  
13 unique J



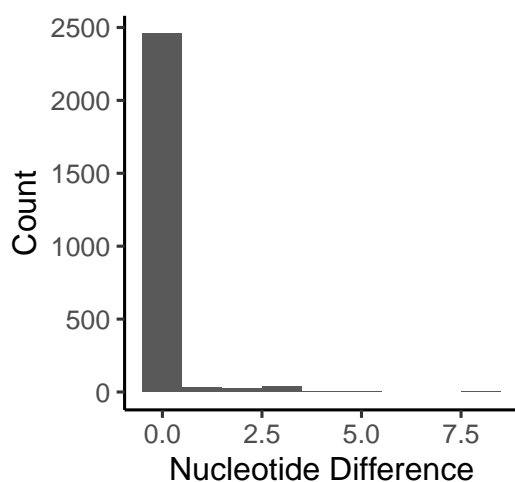
### TRBV7-2\*ap01

2665 sequences assigned  
2643 (99.2%) exact matches, in which:  
2594 unique CDR3  
13 unique J



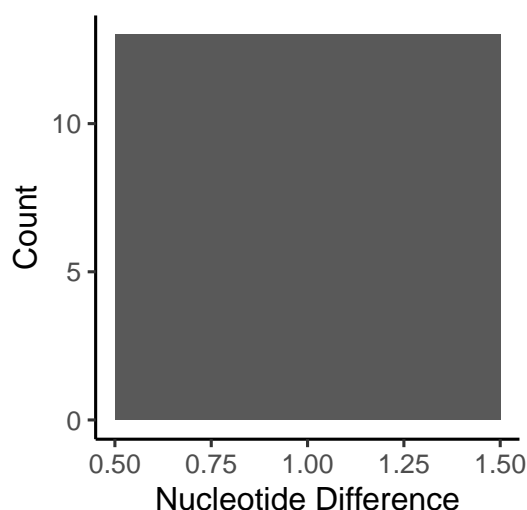
### TRBV6-23\*ap01

2550 sequences assigned  
2457 (96.4%) exact matches, in which:  
2390 unique CDR3  
13 unique J



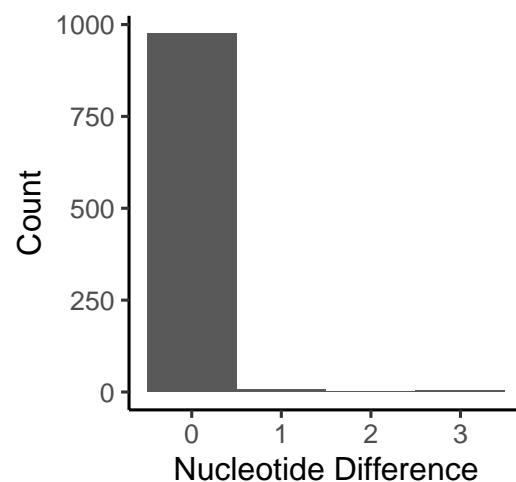
### TRBV7-1\*ap01\_T296C

13 sequences assigned  
No exact matches.



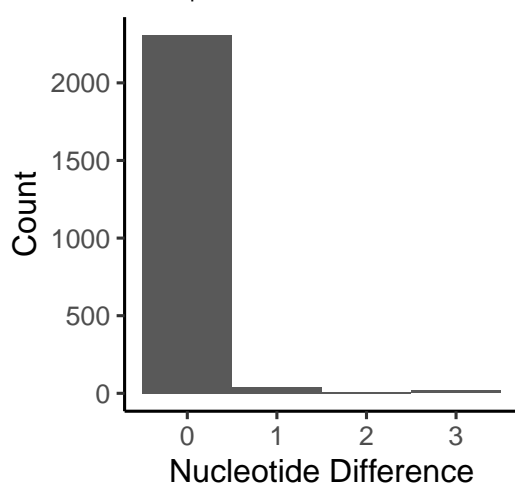
### TRBV7-3\*ap01

986 sequences assigned  
975 (98.9%) exact matches, in which:  
964 unique CDR3  
13 unique J



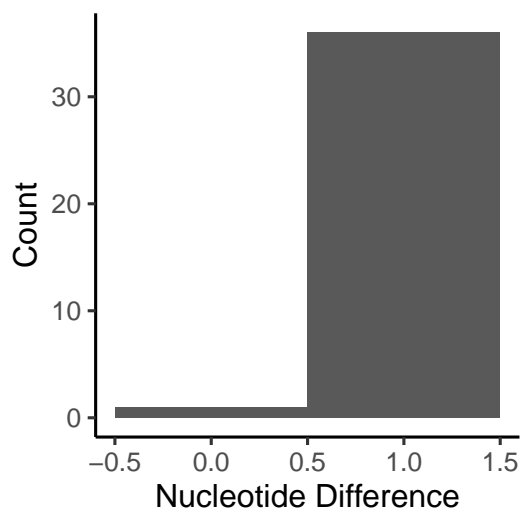
### TRBV6-56\*ap01

2374 sequences assigned  
2308 (97.2%) exact matches, in which:  
2260 unique CDR3  
13 unique J



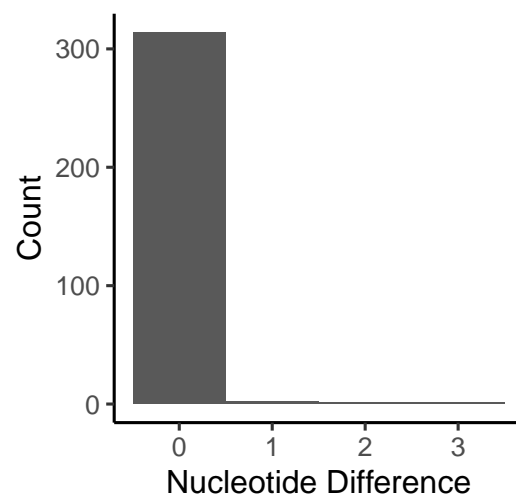
### TRBV7-1\*ap01\_T296C\_C

37 sequences assigned  
1 (2.7%) exact matches, in which:  
1 unique CDR3  
1 unique J



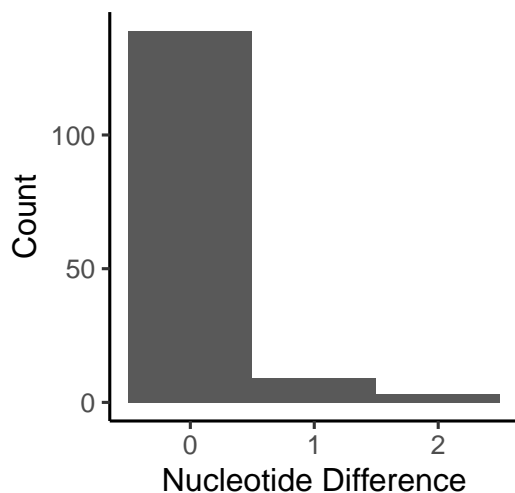
### TRBV7-3\*ap03

318 sequences assigned  
314 (98.7%) exact matches, in which:  
309 unique CDR3  
13 unique J



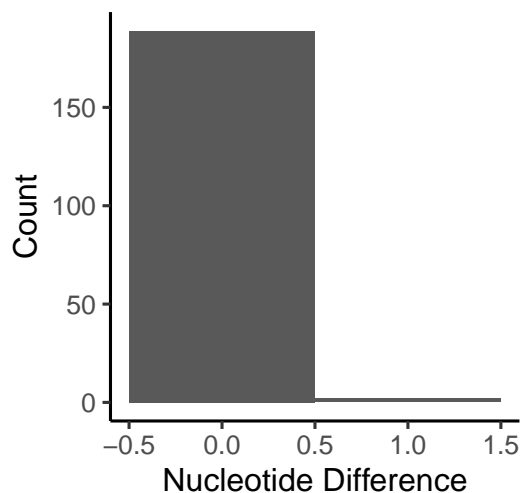
### TRBV7-4\*ap01

151 sequences assigned  
139 (92.1%) exact matches, in which:  
135 unique CDR3  
12 unique J



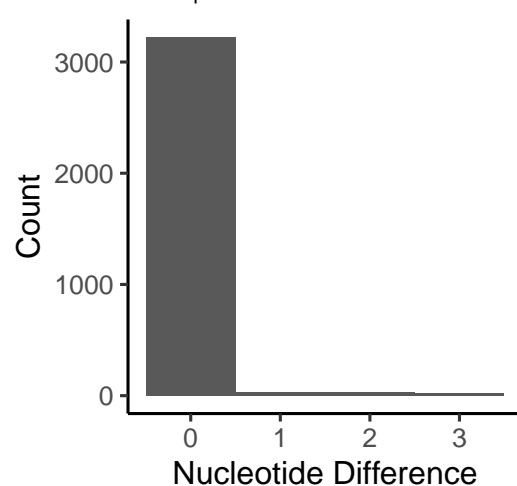
### TRBV7-7\*ap01\_C315T

191 sequences assigned  
189 (99%) exact matches, in which:  
184 unique CDR3  
11 unique J



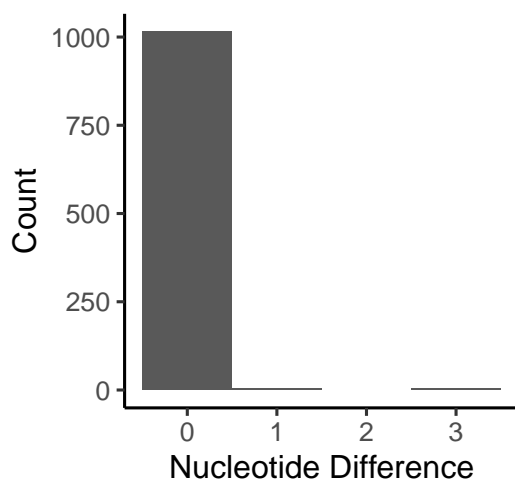
### TRBV7-9\*ap01

3299 sequences assigned  
3221 (97.6%) exact matches, in which:  
3144 unique CDR3  
13 unique J



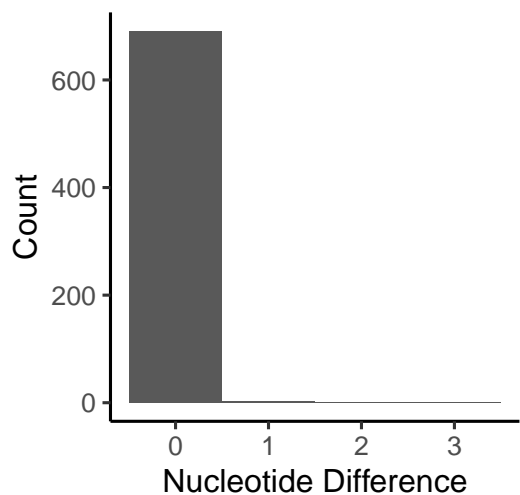
### TRBV7-6\*ap01

1021 sequences assigned  
1015 (99.4%) exact matches, in which:  
1002 unique CDR3  
13 unique J



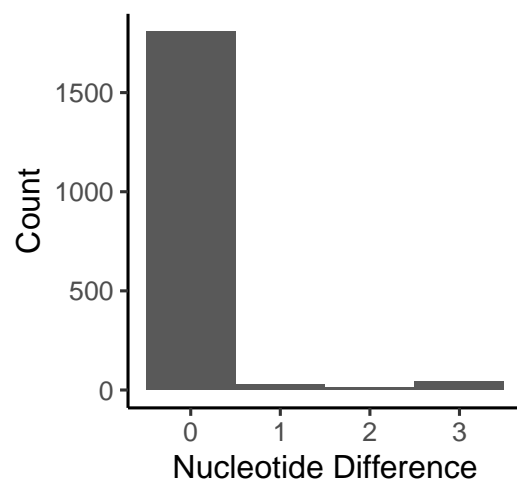
### TRBV7-8\*ap01

696 sequences assigned  
691 (99.3%) exact matches, in which:  
684 unique CDR3  
13 unique J



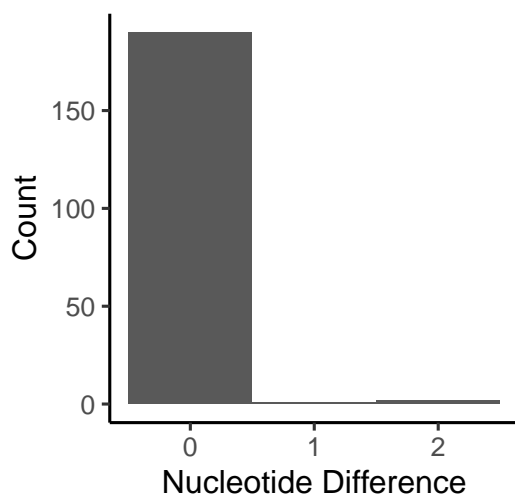
### TRBV29-1\*ap01

1888 sequences assigned  
1807 (95.7%) exact matches, in which:  
1761 unique CDR3  
13 unique J



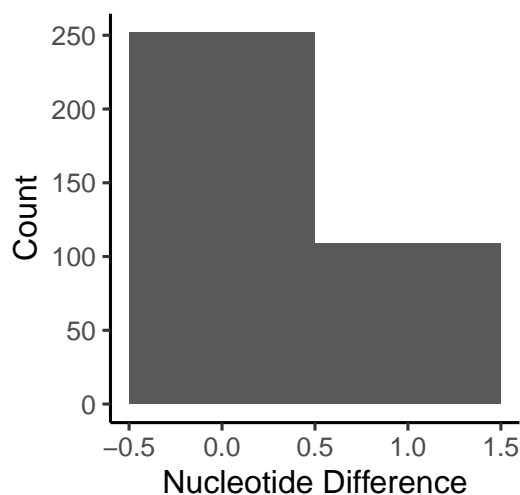
### TRBV7-7\*ap01

193 sequences assigned  
190 (98.4%) exact matches, in which:  
187 unique CDR3  
12 unique J



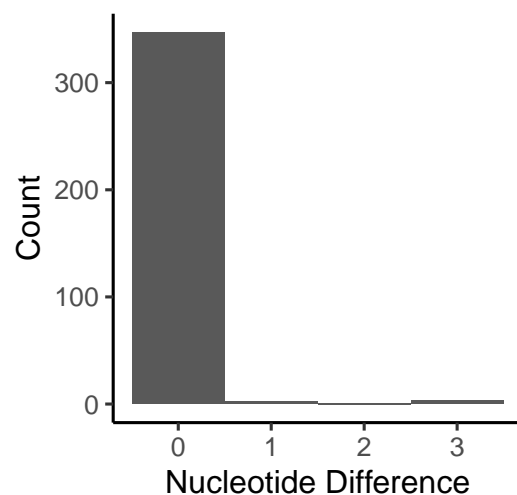
### TRBV7-8\*ap03

361 sequences assigned  
252 (69.8%) exact matches, in which:  
249 unique CDR3  
12 unique J

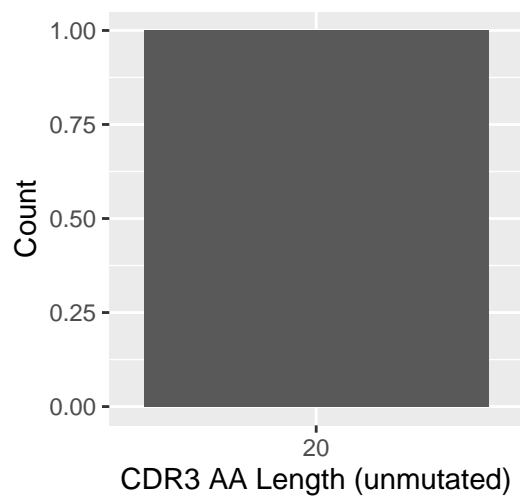


### TRBV29-1\*ap02

353 sequences assigned  
347 (98.3%) exact matches, in which:  
344 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-7\*ap01\_C315T

