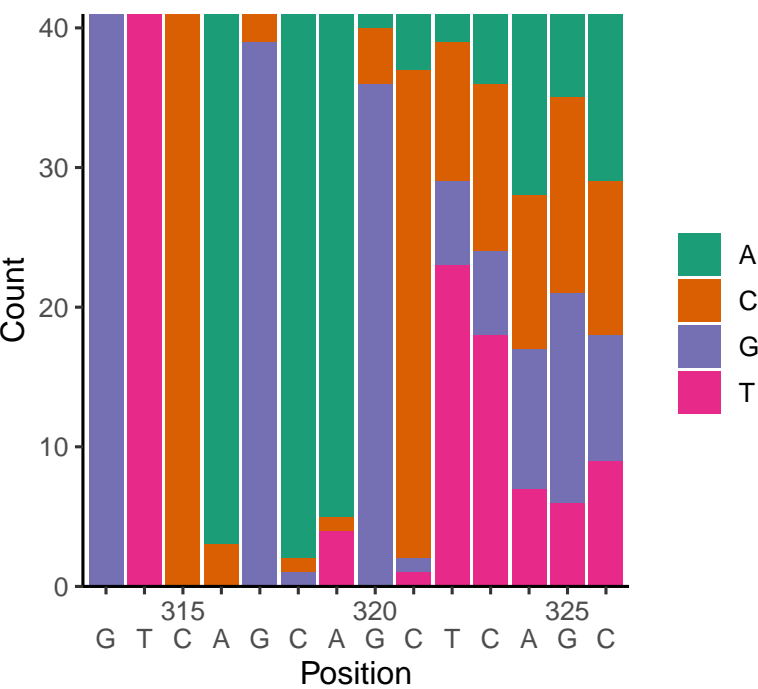
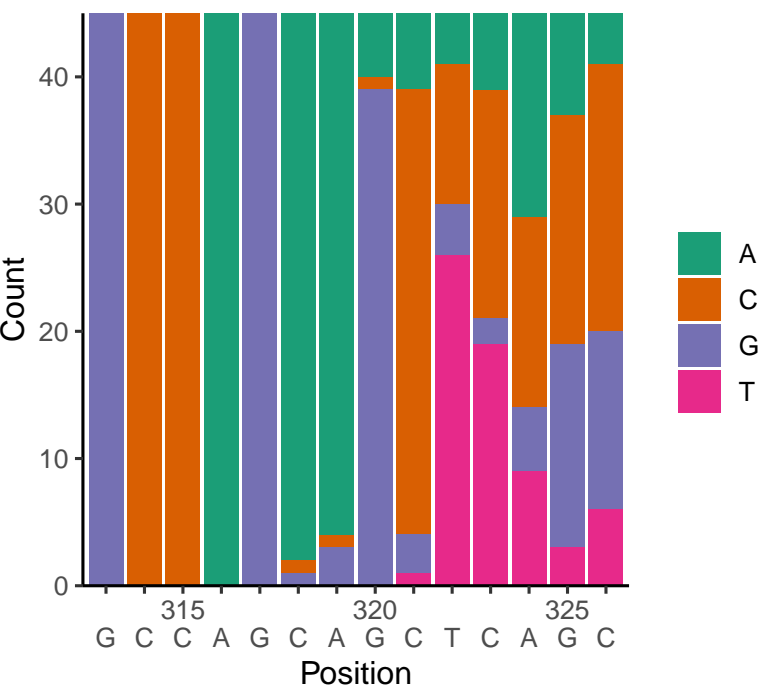


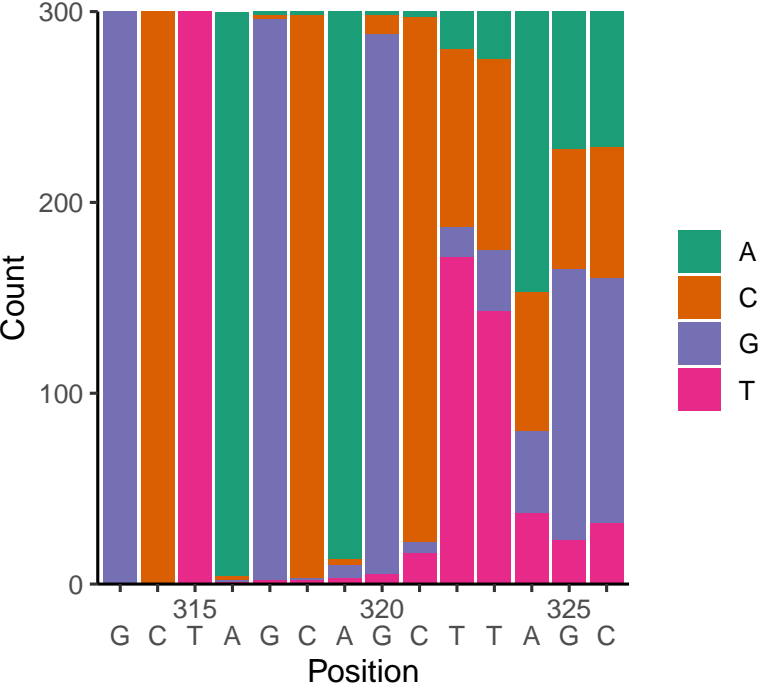
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



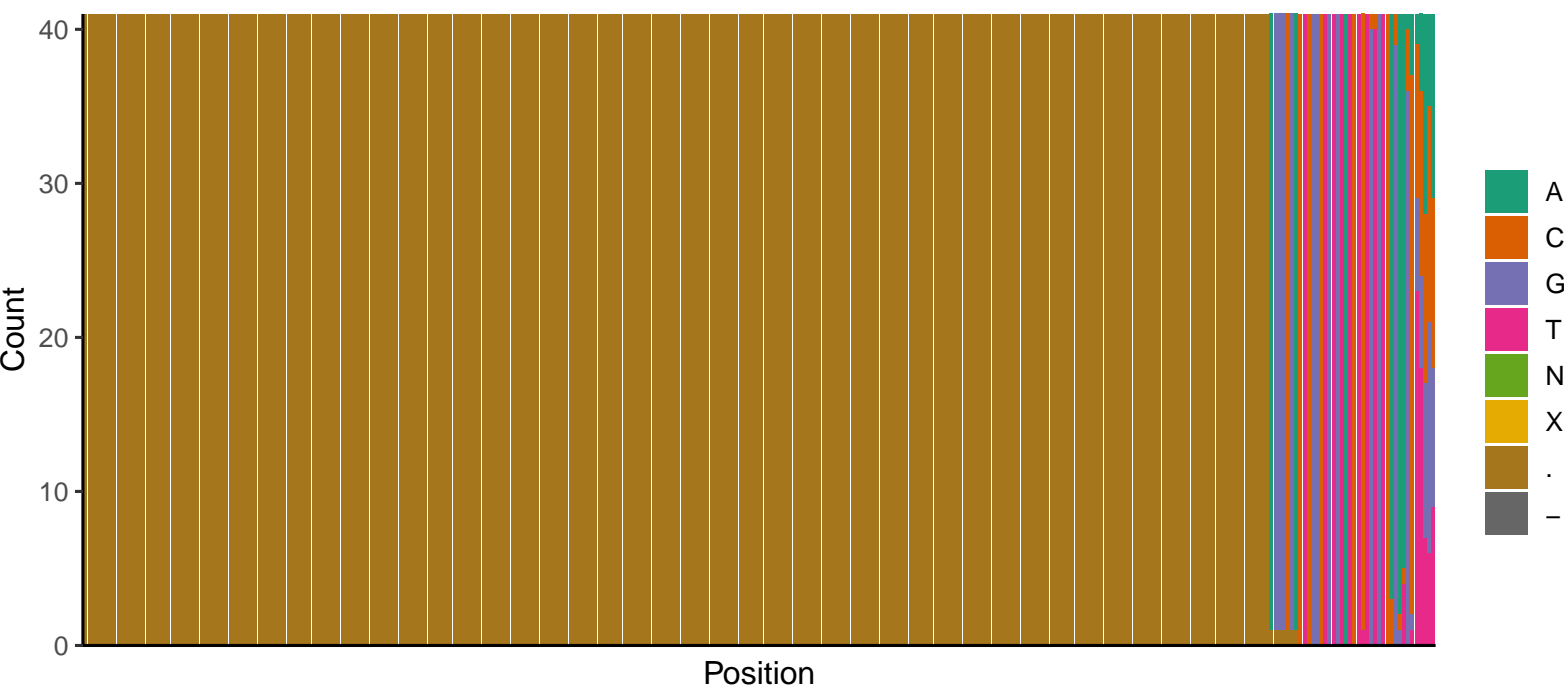
Gene TRBV7-1\*ap01\_G291C\_T296C



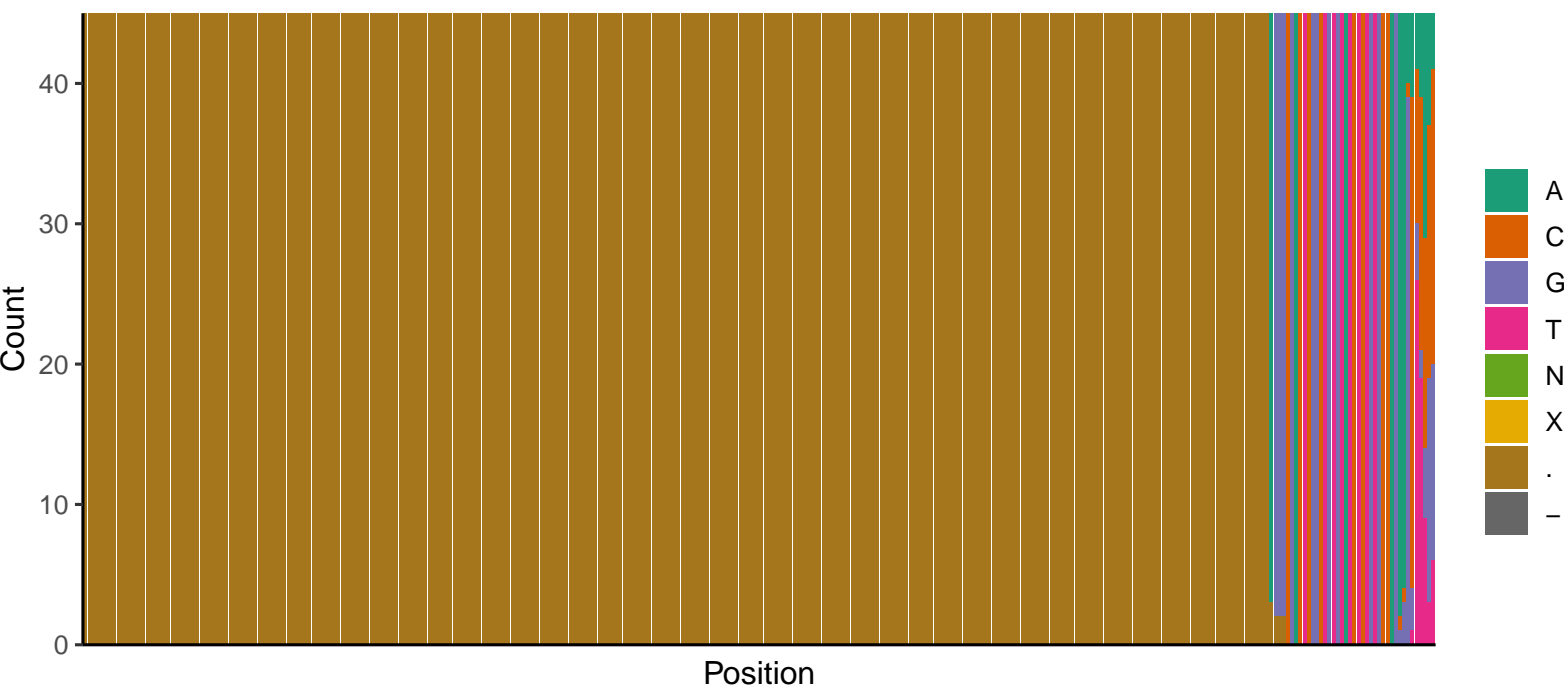
Gene TRBV7-7\*ap01\_C315T



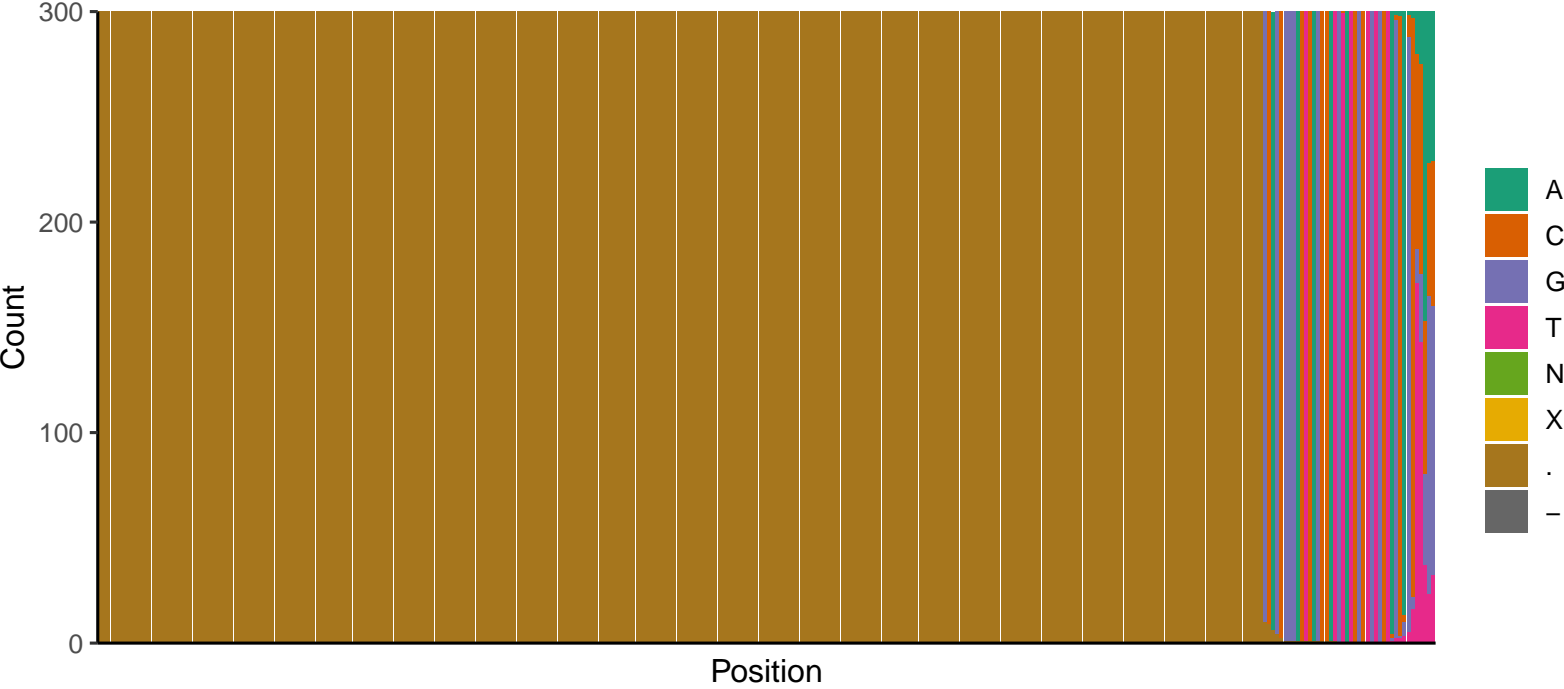
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



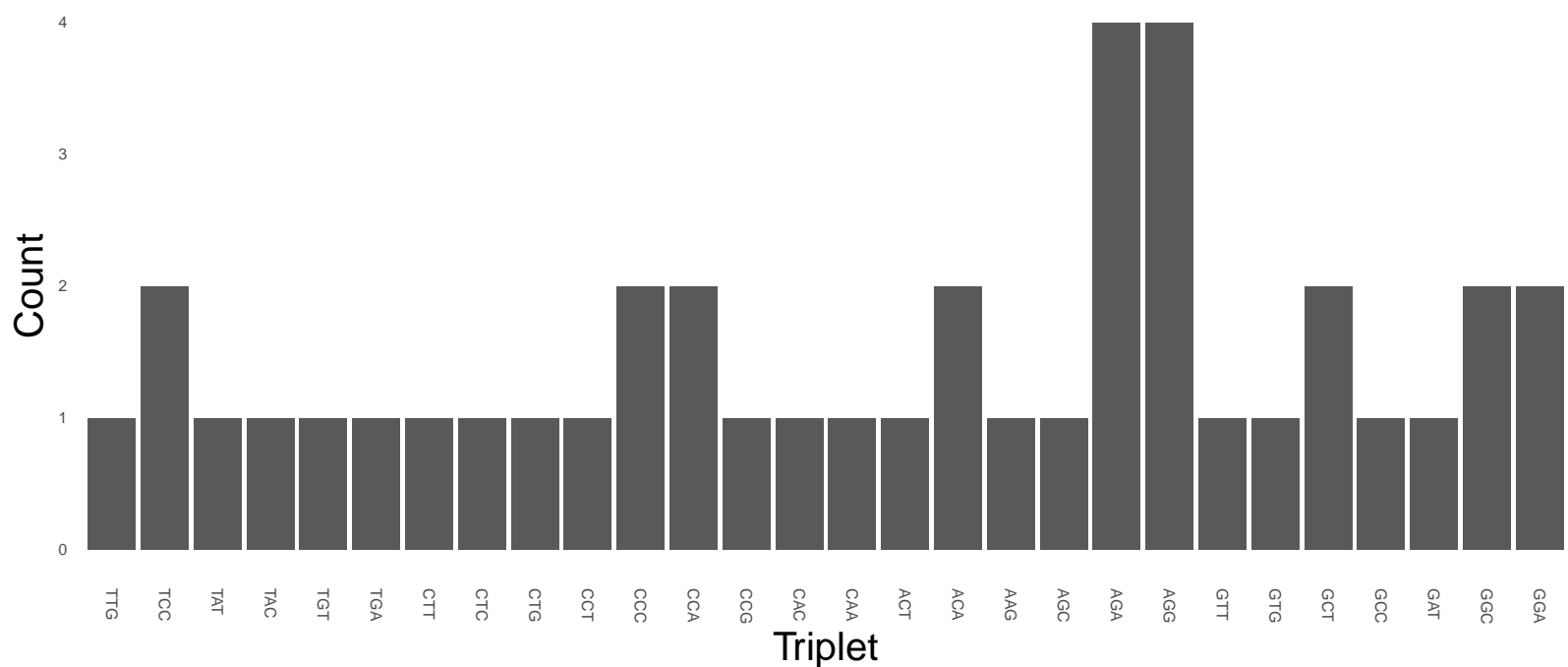
Gene TRBV7-1\*ap01\_G291C\_T296C



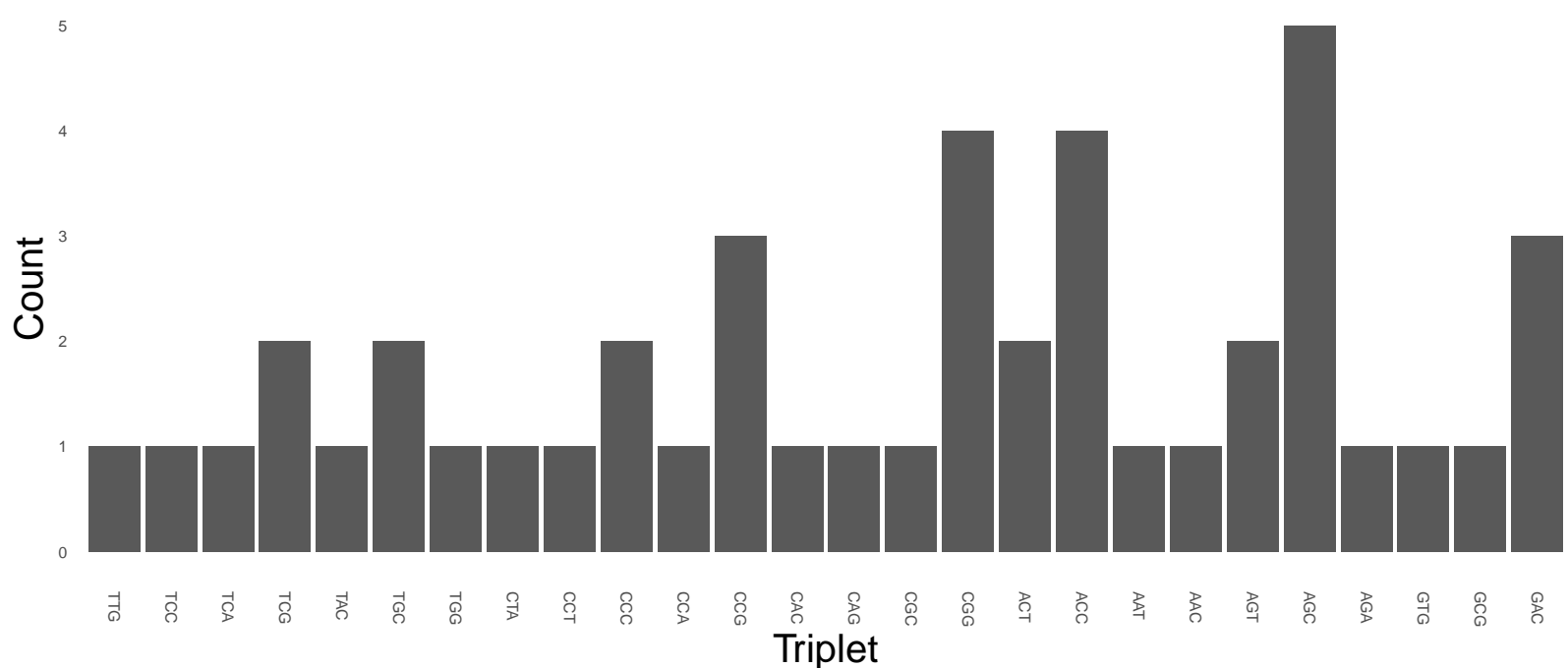
Gene TRBV7-7\*ap01\_C315T



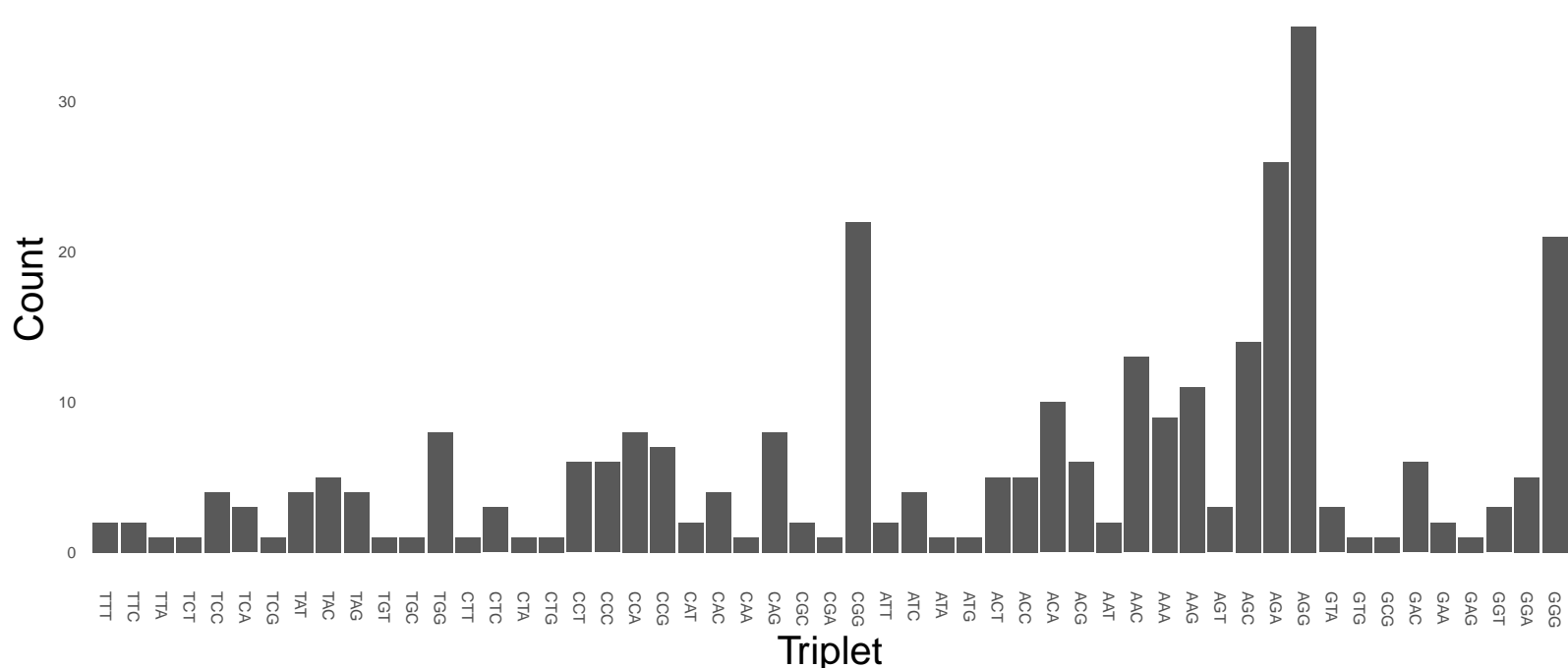
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

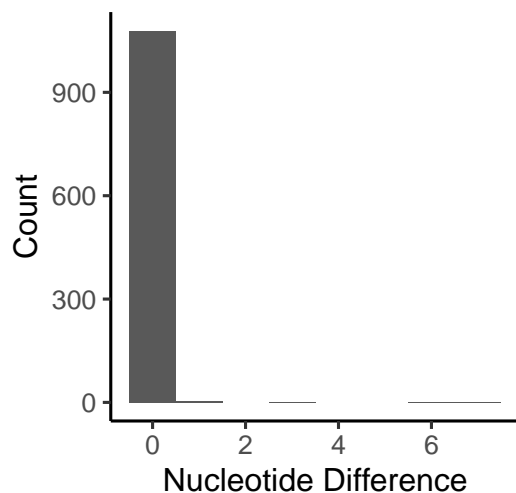


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



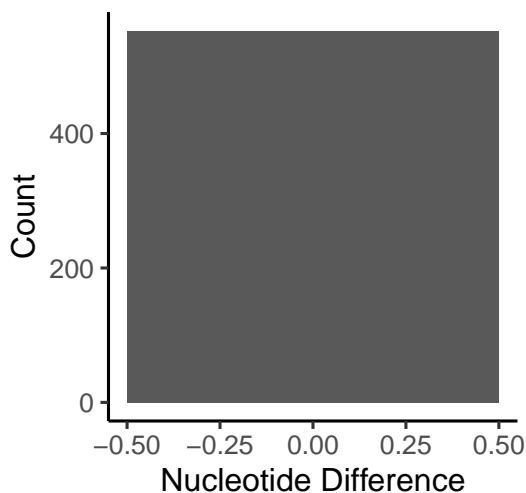
### TRBV10–1\*ap01

1086 sequences assigned  
1079 (99.4%) exact matches, in which:  
1078 unique CDR3  
13 unique J



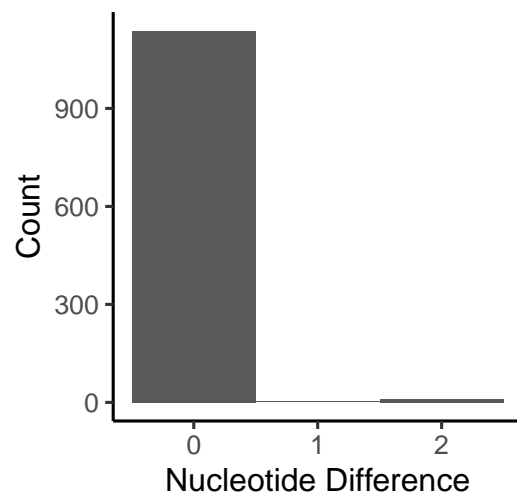
### TRBV10–2\*ap01

553 sequences assigned  
553 (100%) exact matches, in which:  
553 unique CDR3  
13 unique J



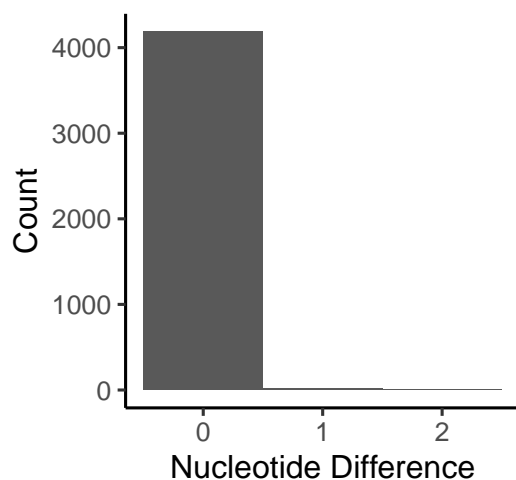
### TRBV13\*ap01

1152 sequences assigned  
1138 (98.8%) exact matches, in which:  
1134 unique CDR3  
13 unique J



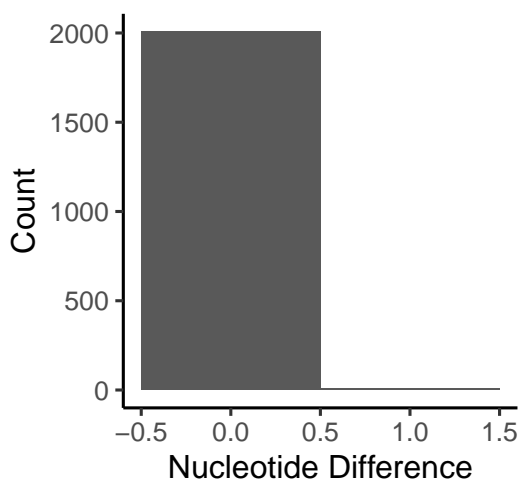
### TRBV20–1\*ap01

4200 sequences assigned  
4186 (99.7%) exact matches, in which:  
4161 unique CDR3  
13 unique J



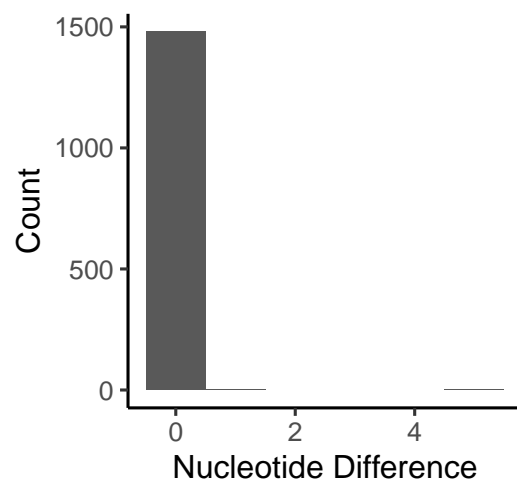
### TRBV10–3\*ap01

2013 sequences assigned  
2007 (99.7%) exact matches, in which:  
2001 unique CDR3  
13 unique J



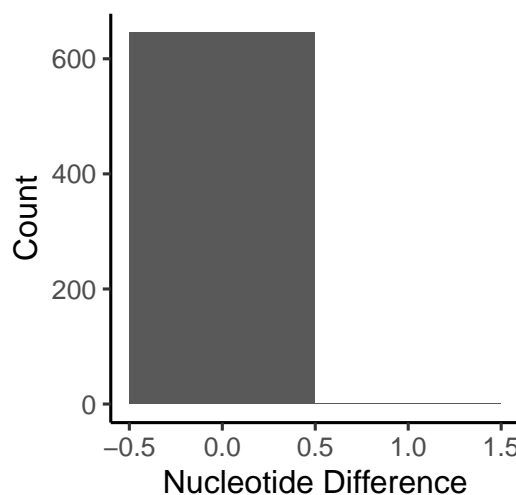
### TRBV14\*ap01

1482 sequences assigned  
1480 (99.9%) exact matches, in which:  
1479 unique CDR3  
13 unique J



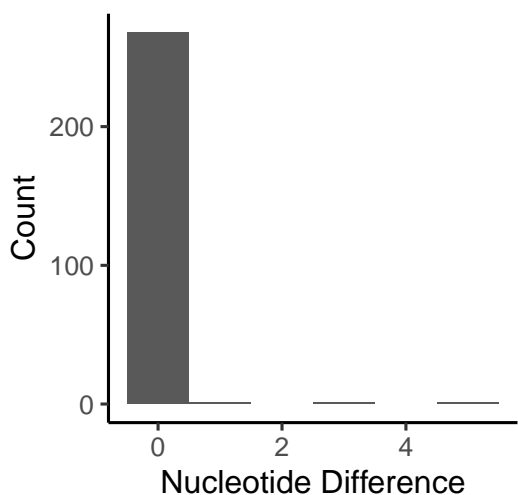
### TRBV20–1\*ap02

647 sequences assigned  
646 (99.8%) exact matches, in which:  
645 unique CDR3  
13 unique J



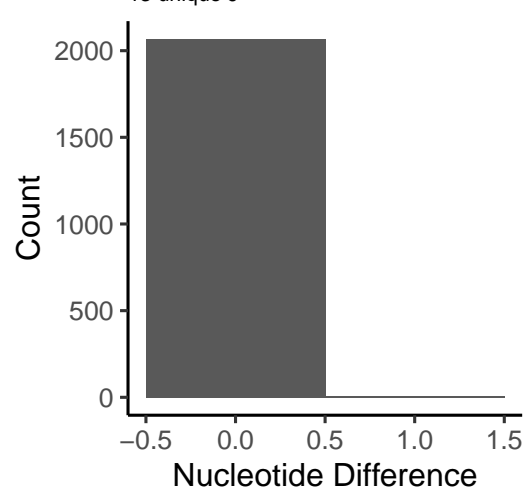
### TRBV1\*ap01

271 sequences assigned  
268 (98.9%) exact matches, in which:  
268 unique CDR3  
13 unique J



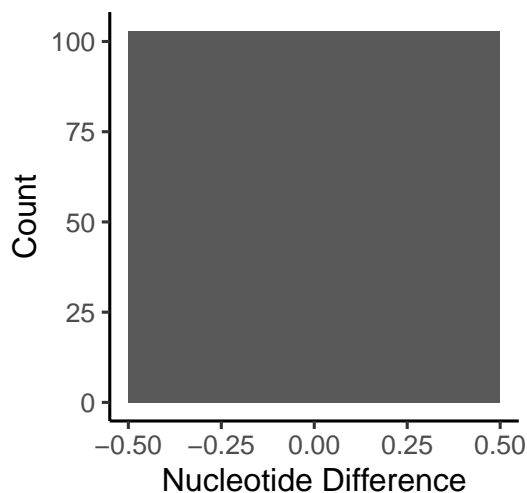
### TRBV15\*ap02

2074 sequences assigned  
2067 (99.7%) exact matches, in which:  
2061 unique CDR3  
13 unique J



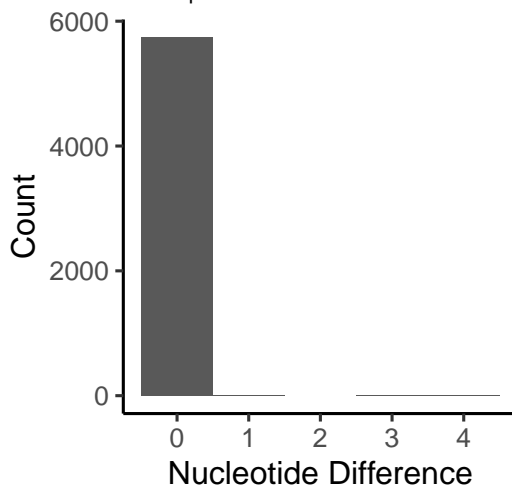
### TRBV16\*ap01

103 sequences assigned  
103 (100%) exact matches, in which:  
103 unique CDR3  
13 unique J



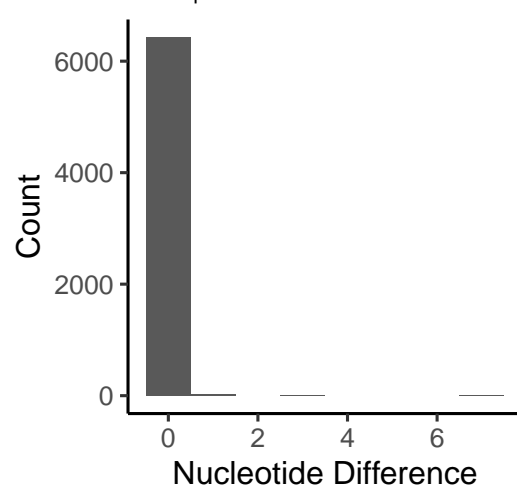
### TRBV19\*ap01

5756 sequences assigned  
5740 (99.7%) exact matches, in which:  
5738 unique CDR3  
13 unique J



### TRBV27\*ap01

6453 sequences assigned  
6426 (99.6%) exact matches, in which:  
6405 unique CDR3  
13 unique J



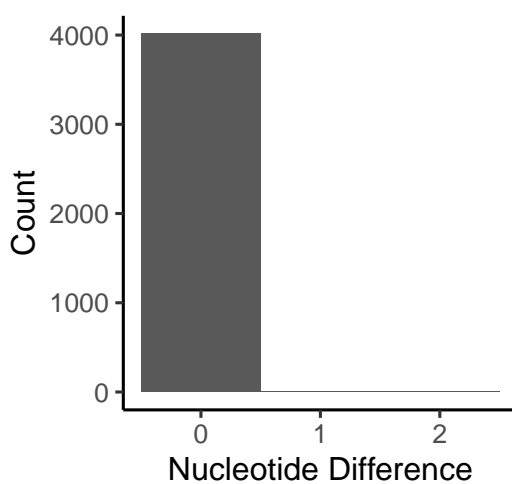
### TRBV17\*ap01

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



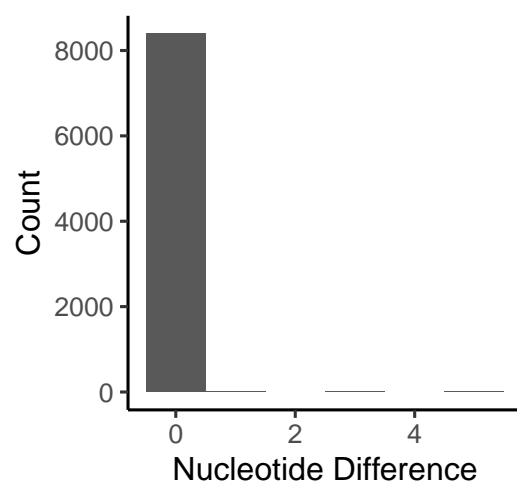
### TRBV2\*ap01

4028 sequences assigned  
4015 (99.7%) exact matches, in which:  
4002 unique CDR3  
13 unique J



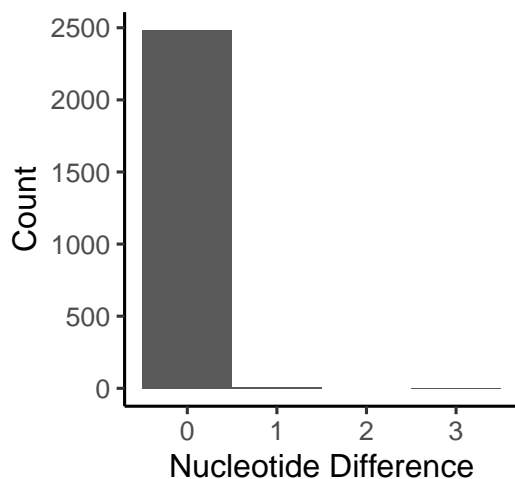
### TRBV28\*ap01

8405 sequences assigned  
8393 (99.9%) exact matches, in which:  
8387 unique CDR3  
13 unique J



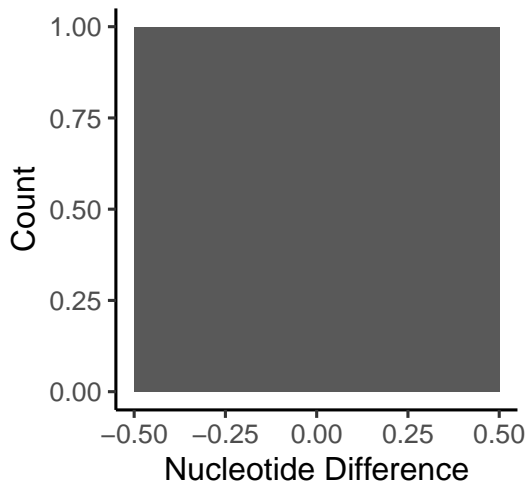
### TRBV18\*ap01

2492 sequences assigned  
2484 (99.7%) exact matches, in which:  
2482 unique CDR3  
13 unique J



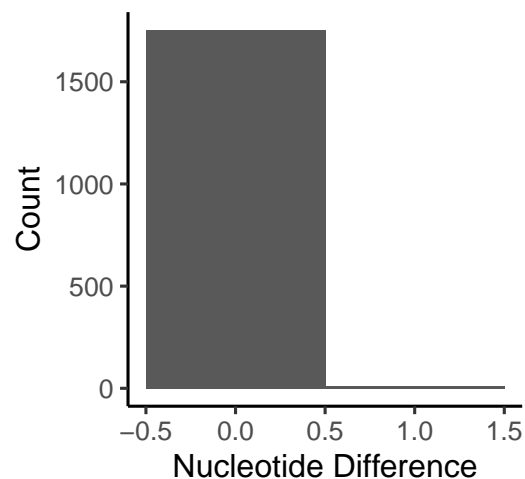
### TRBV26\*ap01

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



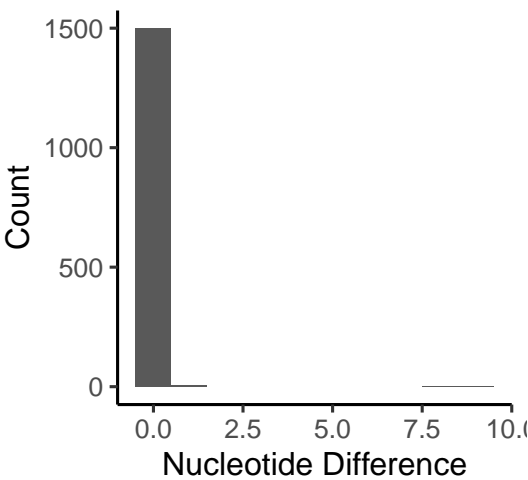
### TRBV30\*ap01

1763 sequences assigned  
1753 (99.4%) exact matches, in which:  
1750 unique CDR3  
13 unique J



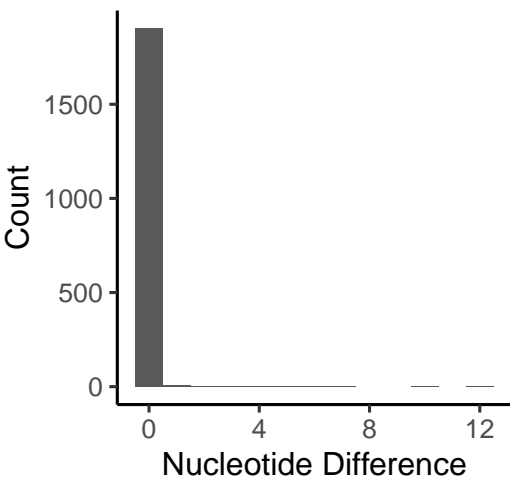
TRBV30\*ap02

1509 sequences assigned  
1499 (99.3%) exact matches, in which:  
1497 unique CDR3  
13 unique J



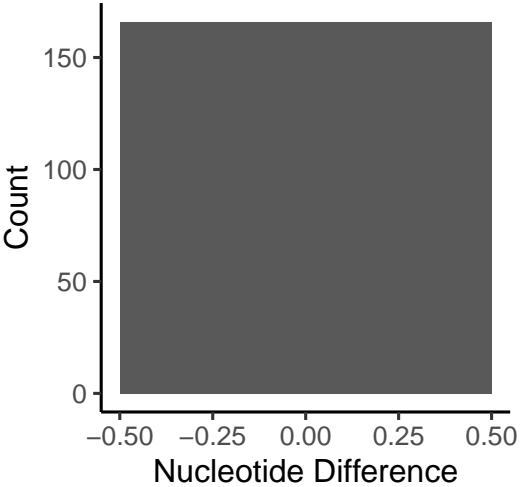
TRBV21-1\*ap01

1925 sequences assigned  
1903 (98.9%) exact matches, in which:  
1902 unique CDR3  
13 unique J



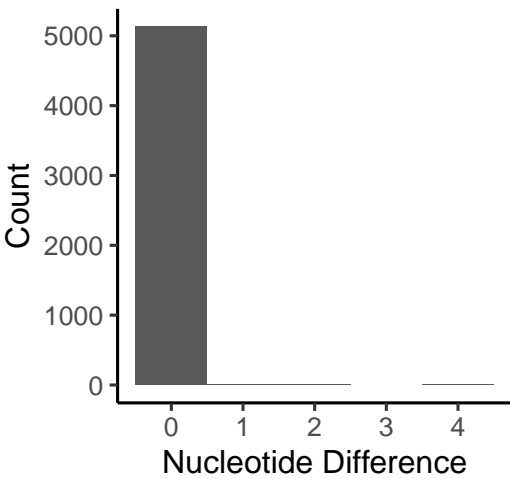
TRBV12-1\*ap01

166 sequences assigned  
166 (100%) exact matches, in which:  
165 unique CDR3  
13 unique J



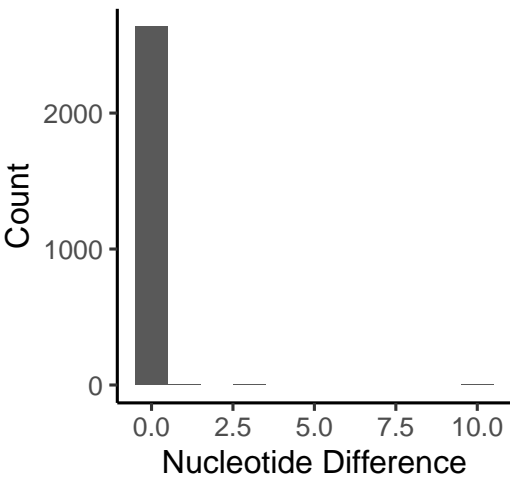
TRBV9\*ap01

5141 sequences assigned  
5130 (99.8%) exact matches, in which:  
5119 unique CDR3  
13 unique J



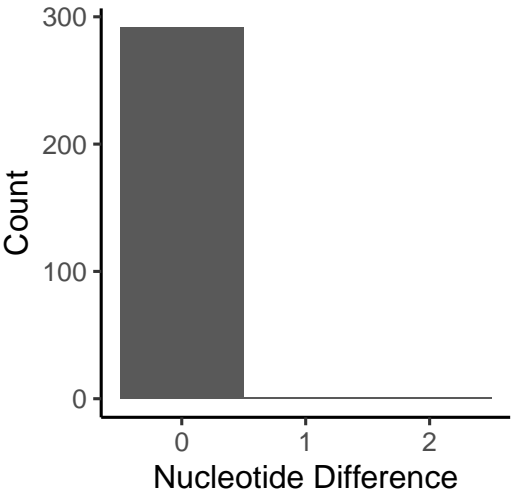
TRBV11-2\*ap01

2639 sequences assigned  
2635 (99.8%) exact matches, in which:  
2632 unique CDR3  
13 unique J



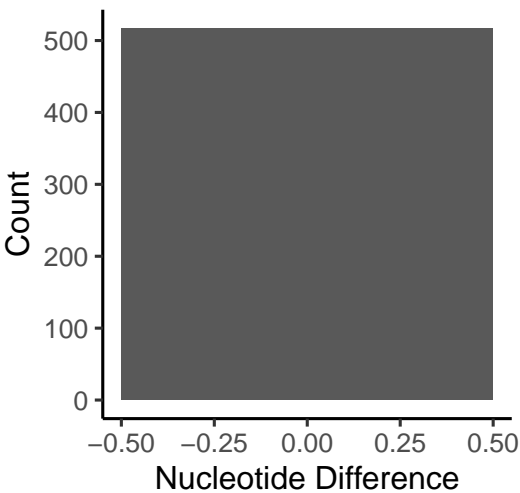
TRBV12-2\*ap01

294 sequences assigned  
292 (99.3%) exact matches, in which:  
290 unique CDR3  
13 unique J



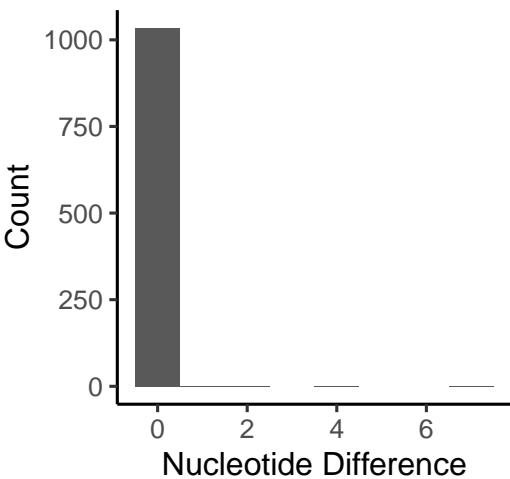
TRBV11-1\*ap01

517 sequences assigned  
517 (100%) exact matches, in which:  
516 unique CDR3  
13 unique J



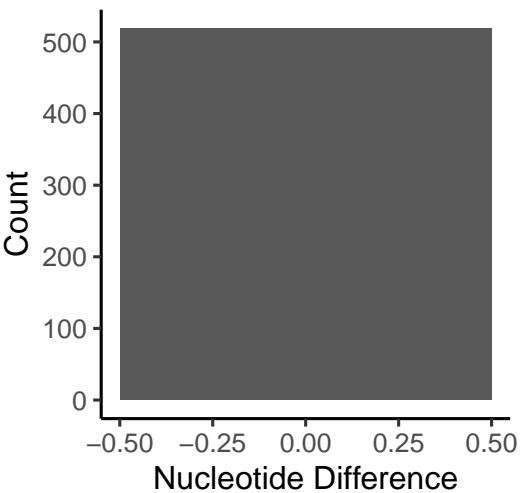
TRBV11-3\*ap01

1038 sequences assigned  
1034 (99.6%) exact matches, in which:  
1034 unique CDR3  
13 unique J



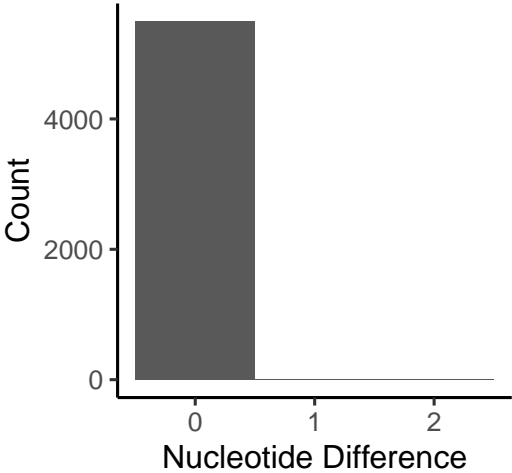
TRBV12-5\*ap01

519 sequences assigned  
519 (100%) exact matches, in which:  
518 unique CDR3  
13 unique J



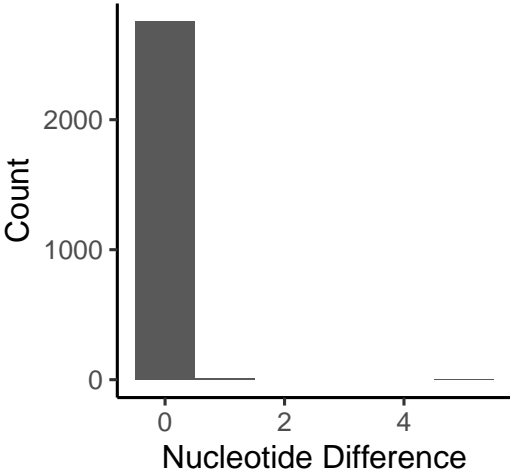
TRBV12-34\*ap01

5507 sequences assigned  
5496 (99.8%) exact matches, in which:  
5486 unique CDR3  
13 unique J



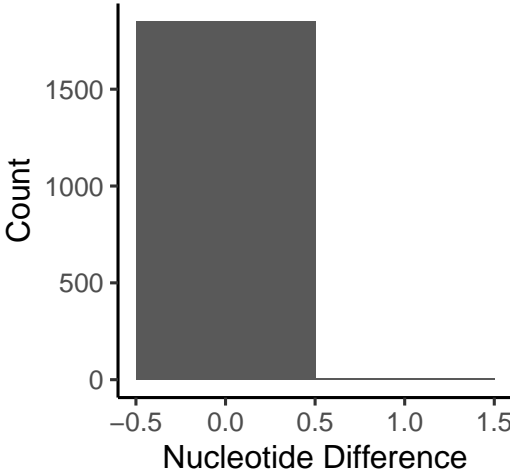
TRBV4-1\*ap01

2765 sequences assigned  
2756 (99.7%) exact matches, in which:  
2750 unique CDR3  
13 unique J



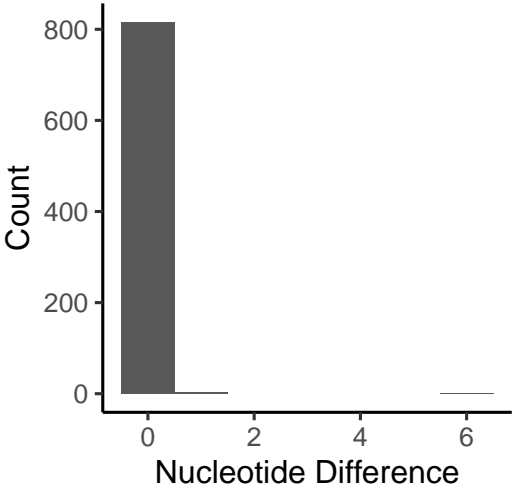
TRBV4-3\*ap01

1856 sequences assigned  
1850 (99.7%) exact matches, in which:  
1849 unique CDR3  
13 unique J



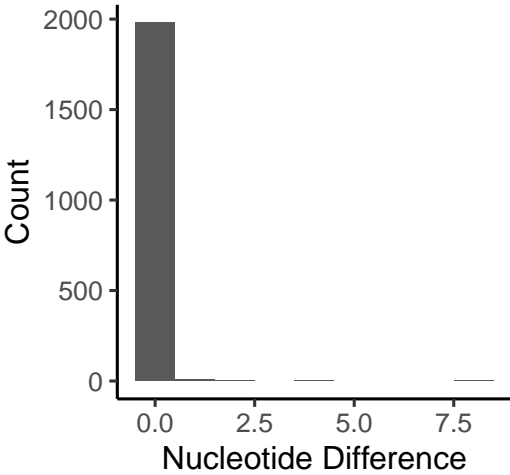
TRBV23-1\*ap01

820 sequences assigned  
816 (99.5%) exact matches, in which:  
816 unique CDR3  
13 unique J



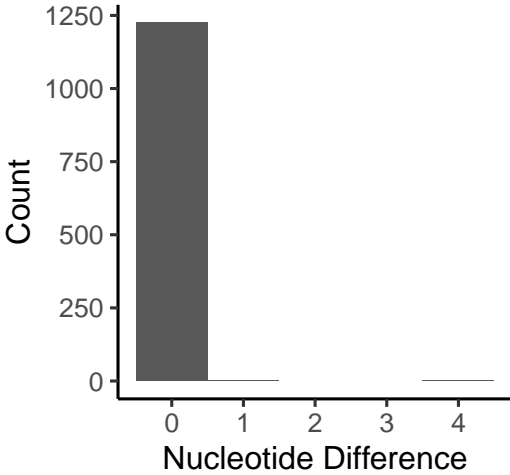
TRBV24-1\*ap01

1994 sequences assigned  
1980 (99.3%) exact matches, in which:  
1976 unique CDR3  
13 unique J



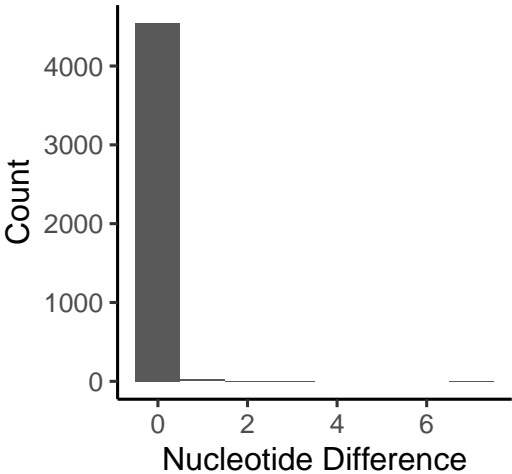
TRBV25-1\*ap01

1228 sequences assigned  
1225 (99.8%) exact matches, in which:  
1219 unique CDR3  
13 unique J



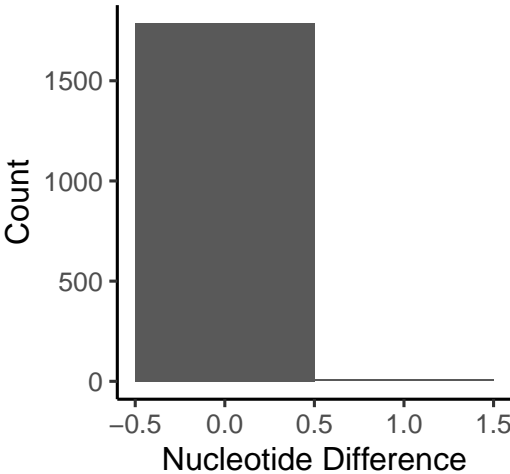
TRBV3-12\*ap01

4571 sequences assigned  
4545 (99.4%) exact matches, in which:  
4533 unique CDR3  
13 unique J



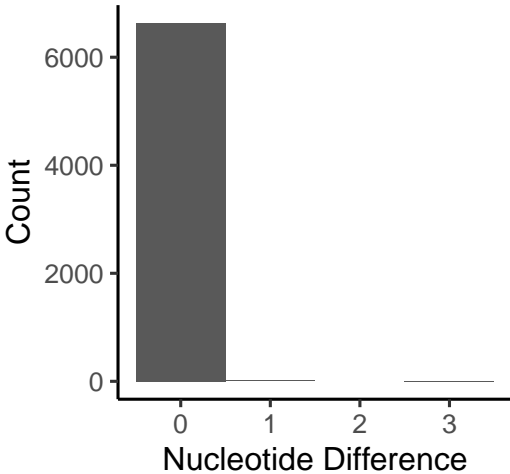
TRBV4-2\*ap01

1798 sequences assigned  
1788 (99.4%) exact matches, in which:  
1784 unique CDR3  
13 unique J



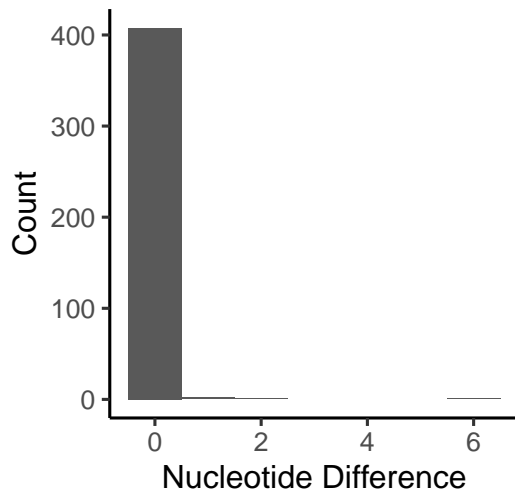
TRBV5-1\*ap01

6650 sequences assigned  
6633 (99.7%) exact matches, in which:  
6579 unique CDR3  
14 unique J



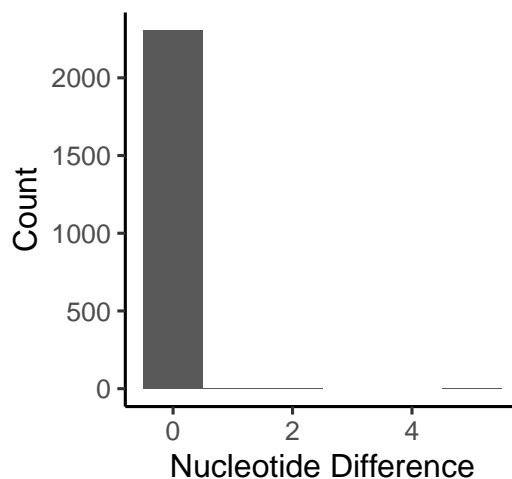
### TRBV5-3\*ap01

412 sequences assigned  
408 (99%) exact matches, in which:  
406 unique CDR3  
13 unique J



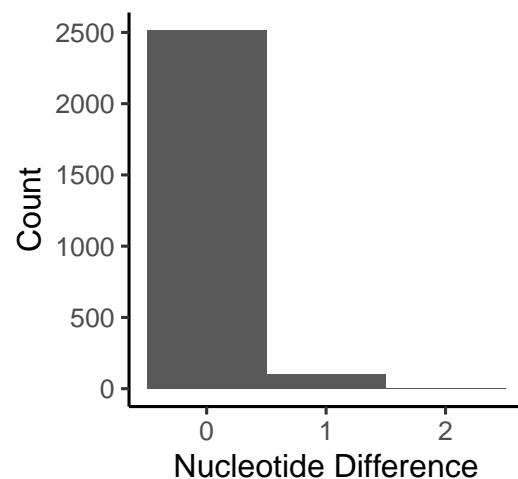
### TRBV5-6\*ap01

2308 sequences assigned  
2305 (99.9%) exact matches, in which:  
2294 unique CDR3  
13 unique J



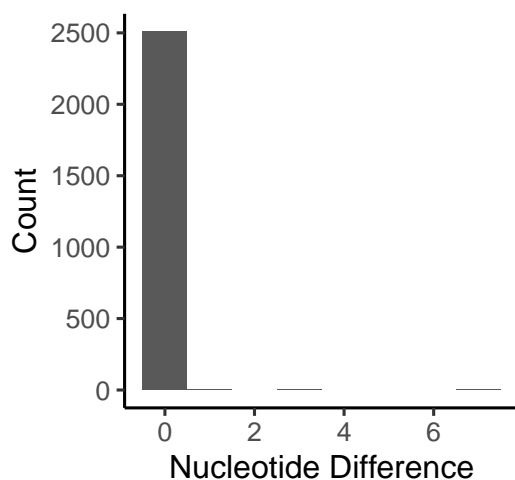
### TRBV6-1\*ap01

2617 sequences assigned  
2514 (96.1%) exact matches, in which:  
2506 unique CDR3  
13 unique J



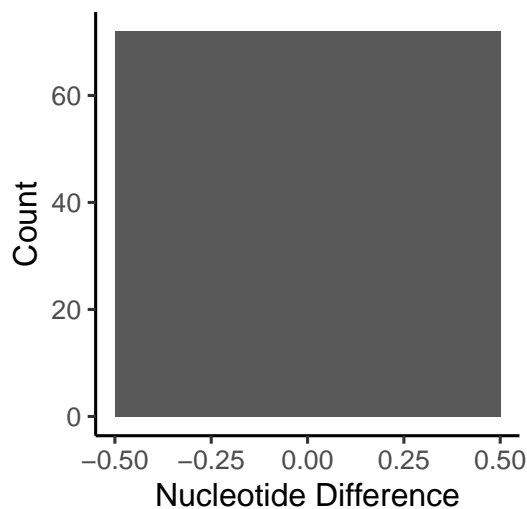
### TRBV5-4\*ap01

2513 sequences assigned  
2508 (99.8%) exact matches, in which:  
2504 unique CDR3  
13 unique J



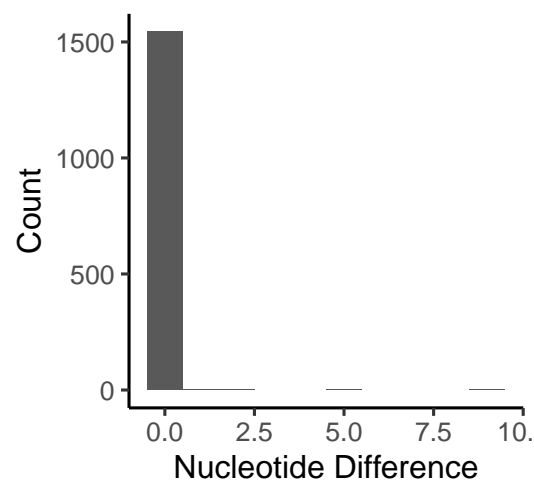
### TRBV5-7\*ap01

72 sequences assigned  
72 (100%) exact matches, in which:  
72 unique CDR3  
12 unique J



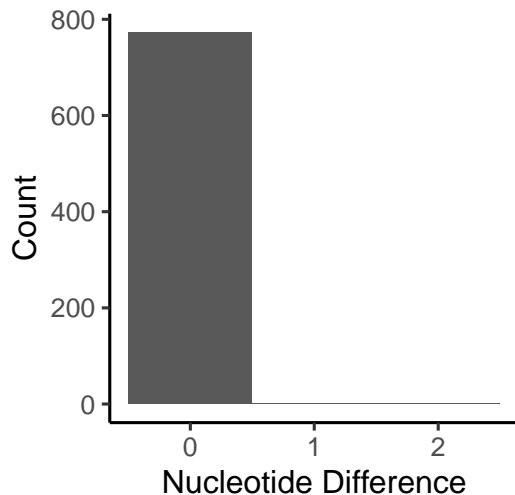
### TRBV6-4\*ap01

1553 sequences assigned  
1544 (99.4%) exact matches, in which:  
1543 unique CDR3  
13 unique J



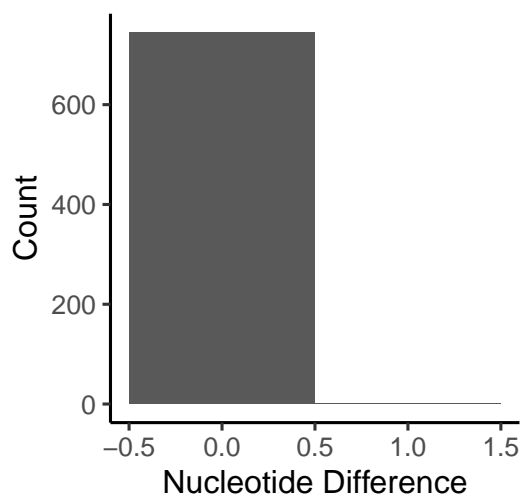
### TRBV5-5\*ap01

776 sequences assigned  
773 (99.6%) exact matches, in which:  
771 unique CDR3  
13 unique J



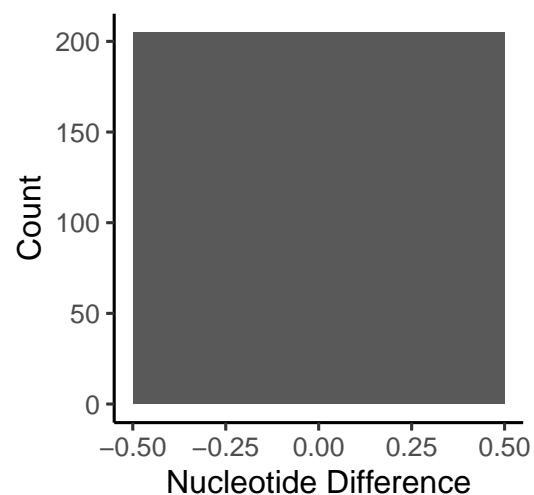
### TRBV5-8\*ap01

746 sequences assigned  
745 (99.9%) exact matches, in which:  
745 unique CDR3  
13 unique J



### TRBV6-7\*ap01

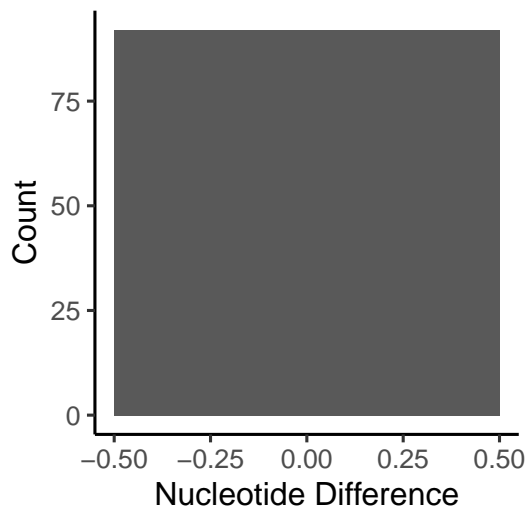
205 sequences assigned  
205 (100%) exact matches, in which:  
205 unique CDR3  
13 unique J





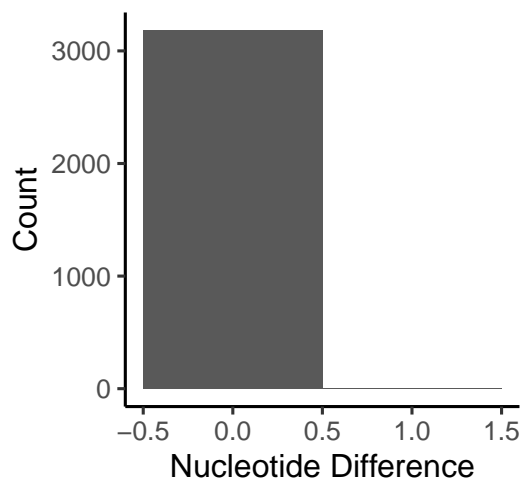
### TRBV6–8\*ap01

92 sequences assigned  
92 (100%) exact matches, in which:  
92 unique CDR3  
12 unique J



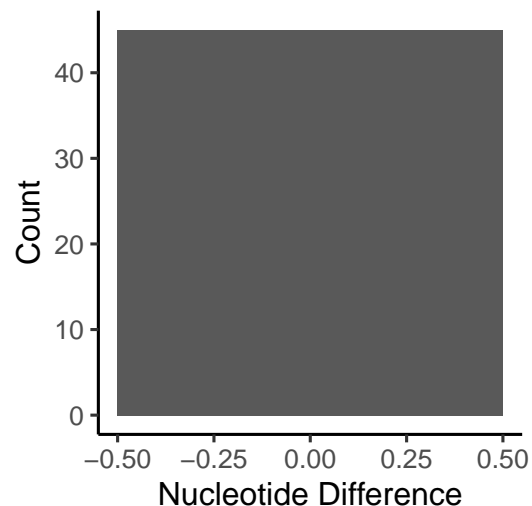
### TRBV6–56\*ap01

3190 sequences assigned  
3182 (99.7%) exact matches, in which:  
3173 unique CDR3  
13 unique J



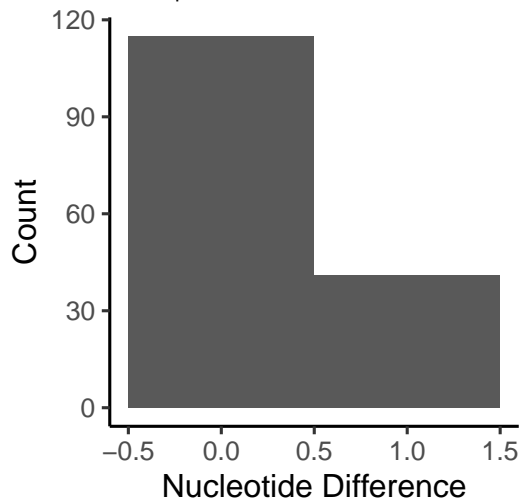
### TRBV7–1\*ap01\_G291C\_T

45 sequences assigned  
45 (100%) exact matches, in which:  
45 unique CDR3  
11 unique J



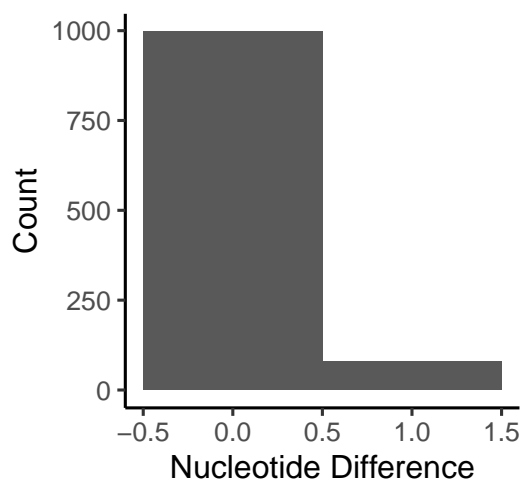
### TRBV6–9\*ap01

156 sequences assigned  
115 (73.7%) exact matches, in which:  
115 unique CDR3  
13 unique J



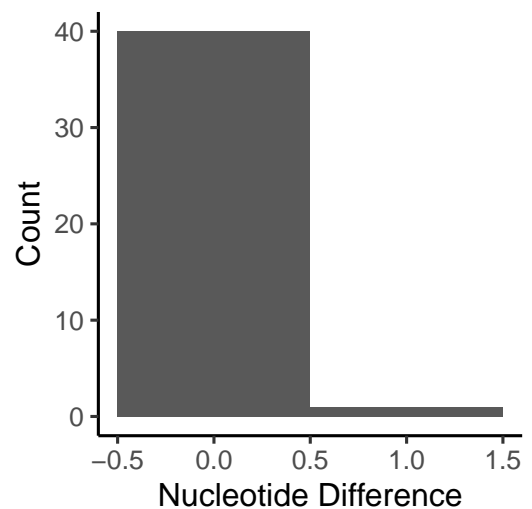
### TRBV6–56\*ap02

1076 sequences assigned  
997 (92.7%) exact matches, in which:  
994 unique CDR3  
13 unique J



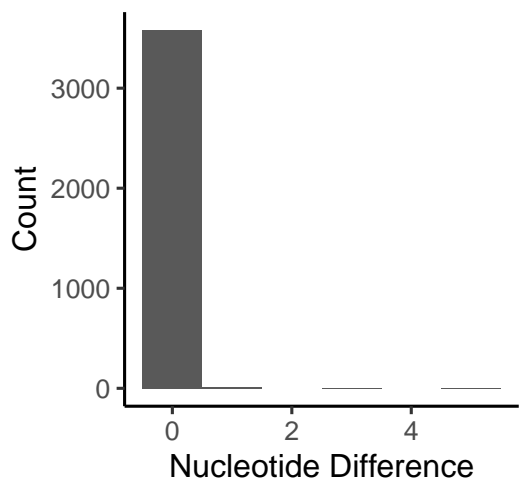
### TRBV7–1\*ap01\_G291C\_T

41 sequences assigned  
40 (97.6%) exact matches, in which:  
40 unique CDR3  
12 unique J



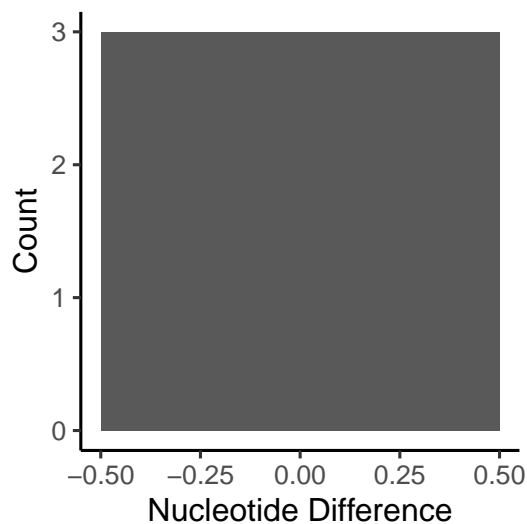
### TRBV6–23\*ap01

3597 sequences assigned  
3581 (99.6%) exact matches, in which:  
3567 unique CDR3  
13 unique J



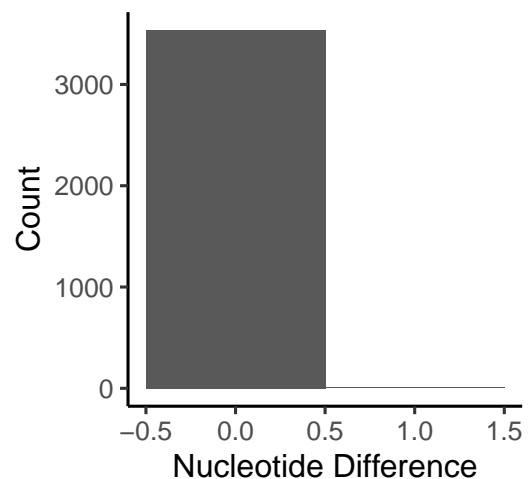
### TRBV7–1\*ap01

3 sequences assigned  
3 (100%) exact matches, in which:  
3 unique CDR3  
3 unique J



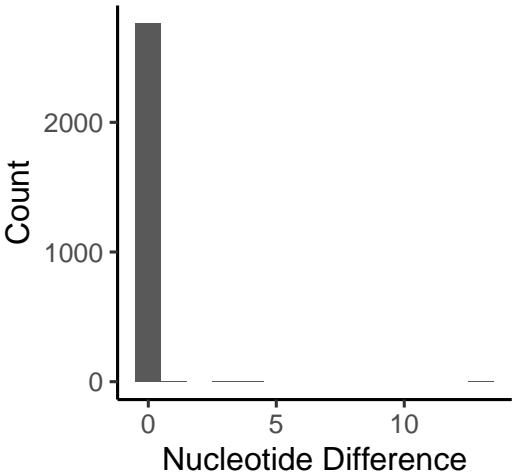
### TRBV7–2\*ap01

3545 sequences assigned  
3537 (99.8%) exact matches, in which:  
3535 unique CDR3  
13 unique J



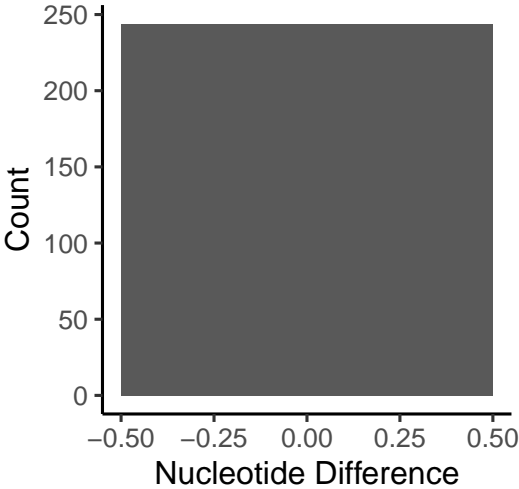
TRBV7-3\*ap01

2771 sequences assigned  
2763 (99.7%) exact matches, in which:  
2755 unique CDR3  
13 unique J



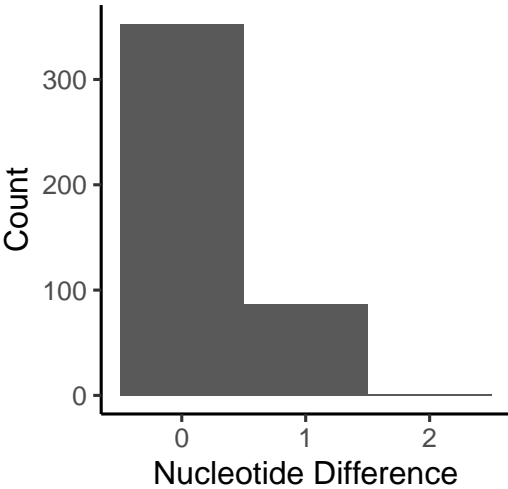
TRBV7-7\*ap01

244 sequences assigned  
244 (100%) exact matches, in which:  
244 unique CDR3  
12 unique J



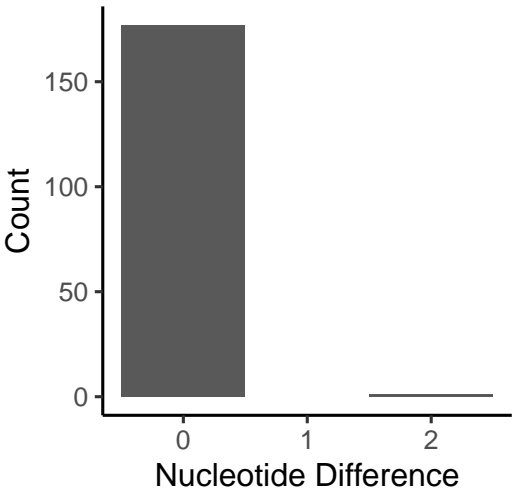
TRBV7-8\*ap03

441 sequences assigned  
353 (80%) exact matches, in which:  
352 unique CDR3  
13 unique J



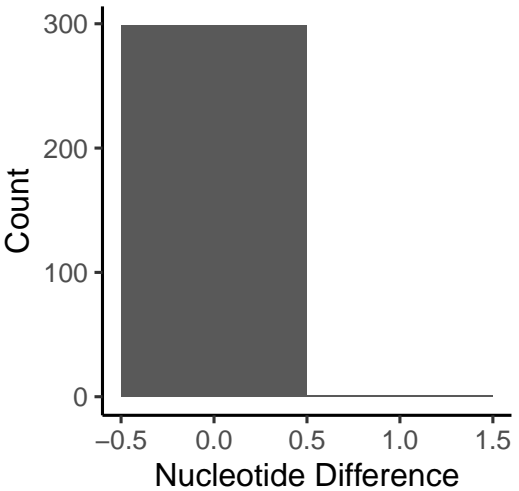
TRBV7-4\*ap01

178 sequences assigned  
177 (99.4%) exact matches, in which:  
177 unique CDR3  
13 unique J



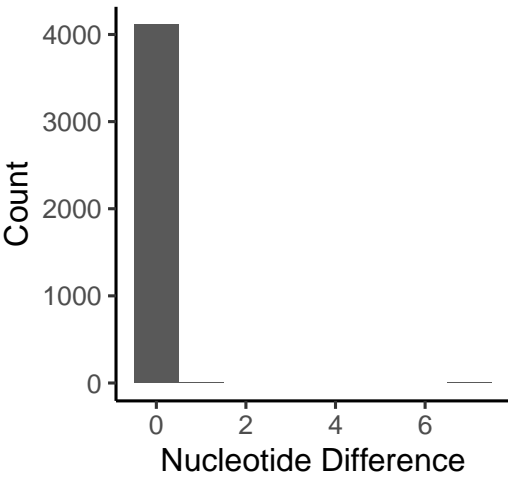
TRBV7-7\*ap01\_C315T

300 sequences assigned  
299 (99.7%) exact matches, in which:  
299 unique CDR3  
13 unique J



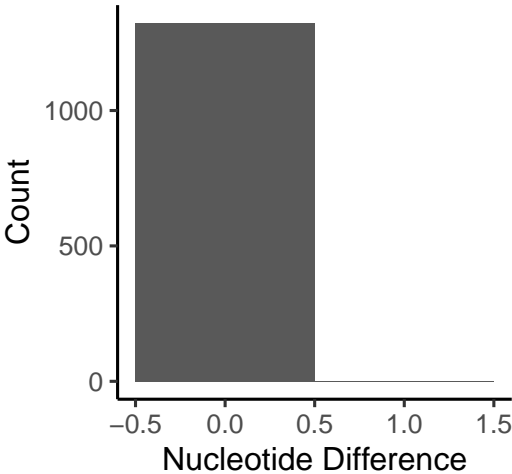
TRBV7-9\*ap01

4119 sequences assigned  
4112 (99.8%) exact matches, in which:  
4109 unique CDR3  
13 unique J



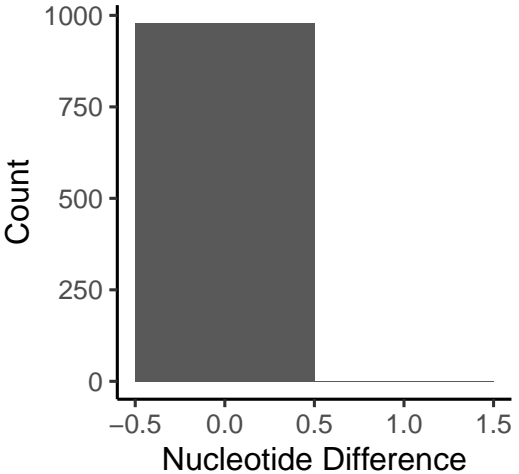
TRBV7-6\*ap01

1325 sequences assigned  
1323 (99.8%) exact matches, in which:  
1317 unique CDR3  
13 unique J



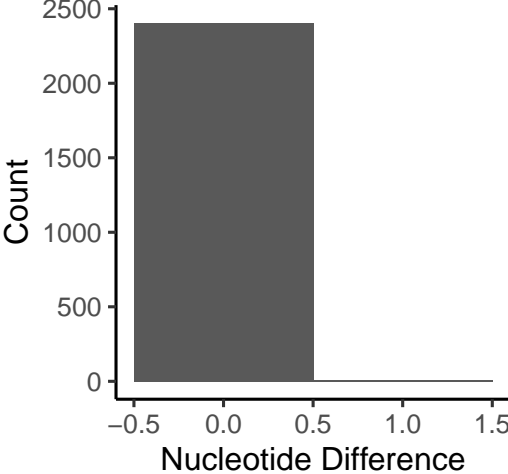
TRBV7-8\*ap01

980 sequences assigned  
979 (99.9%) exact matches, in which:  
977 unique CDR3  
13 unique J



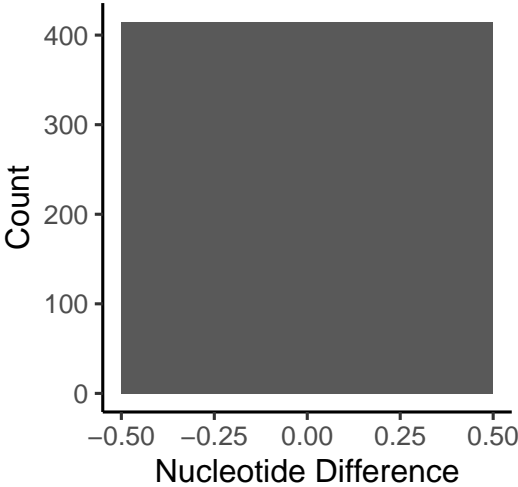
TRBV29-1\*ap01

2414 sequences assigned  
2404 (99.6%) exact matches, in which:  
2396 unique CDR3  
13 unique J

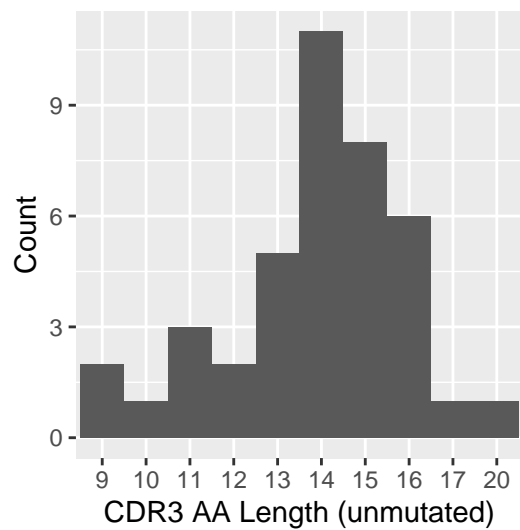


TRBV29-1\*ap02

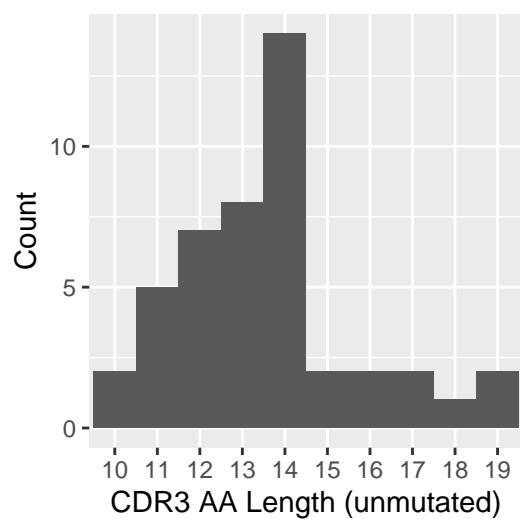
415 sequences assigned  
415 (100%) exact matches, in which:  
415 unique CDR3  
13 unique J



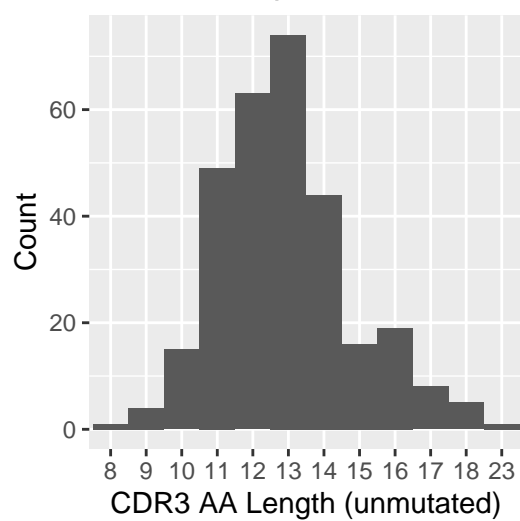
TRBV7-1\*ap01\_G291C\_T296C\_C314T

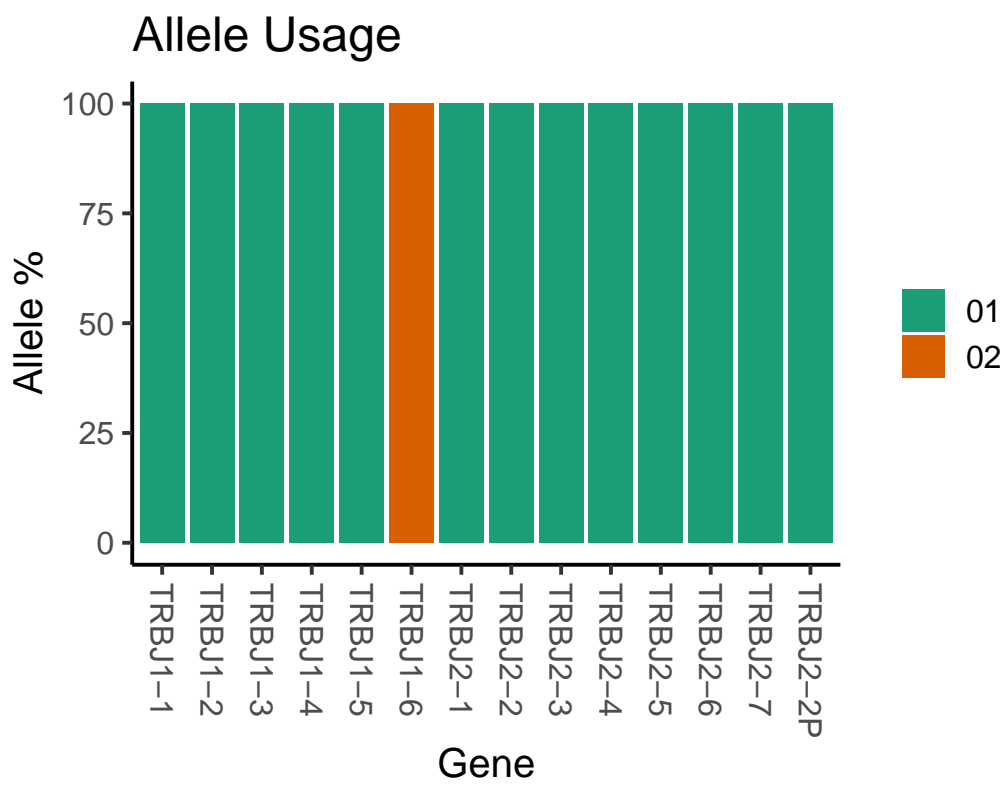


TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





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