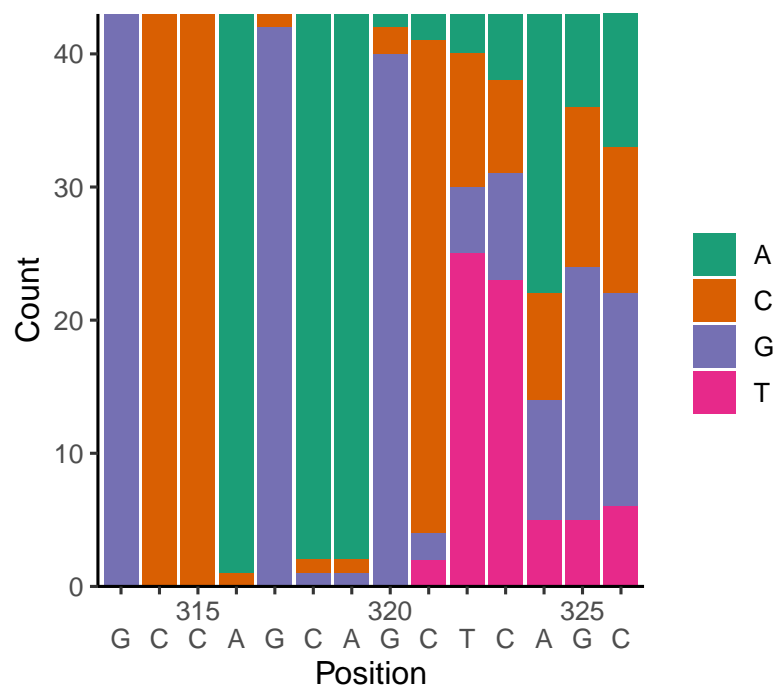
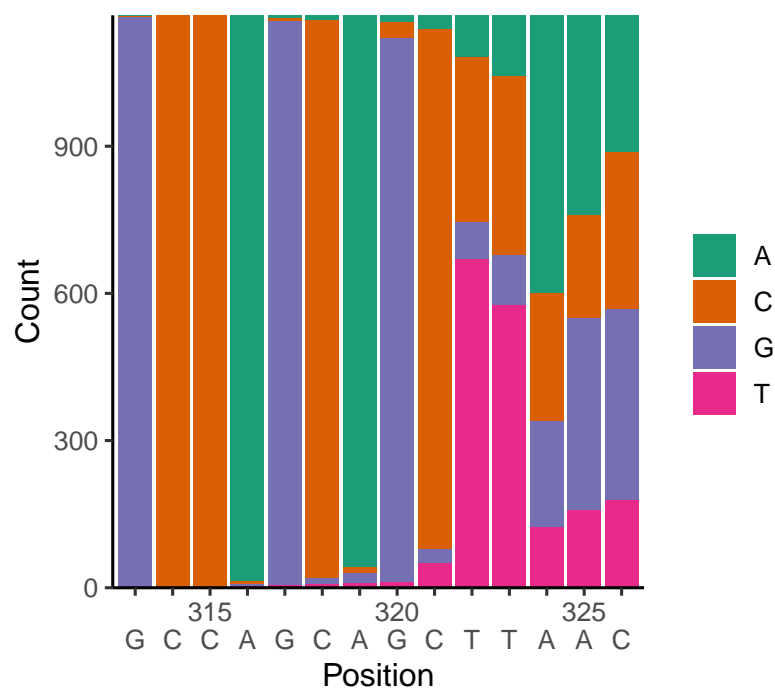


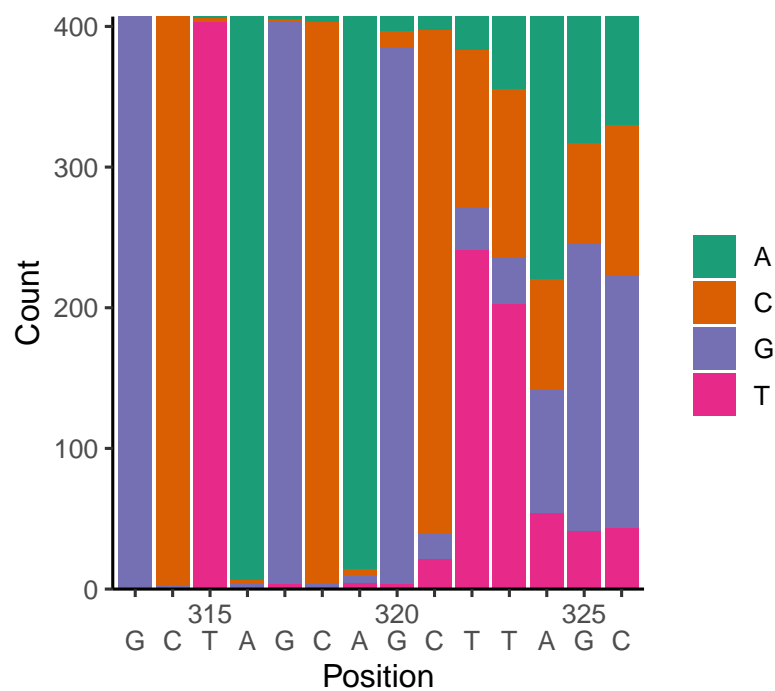
Gene TRBV7-1\*ap01\_G291C\_T296C



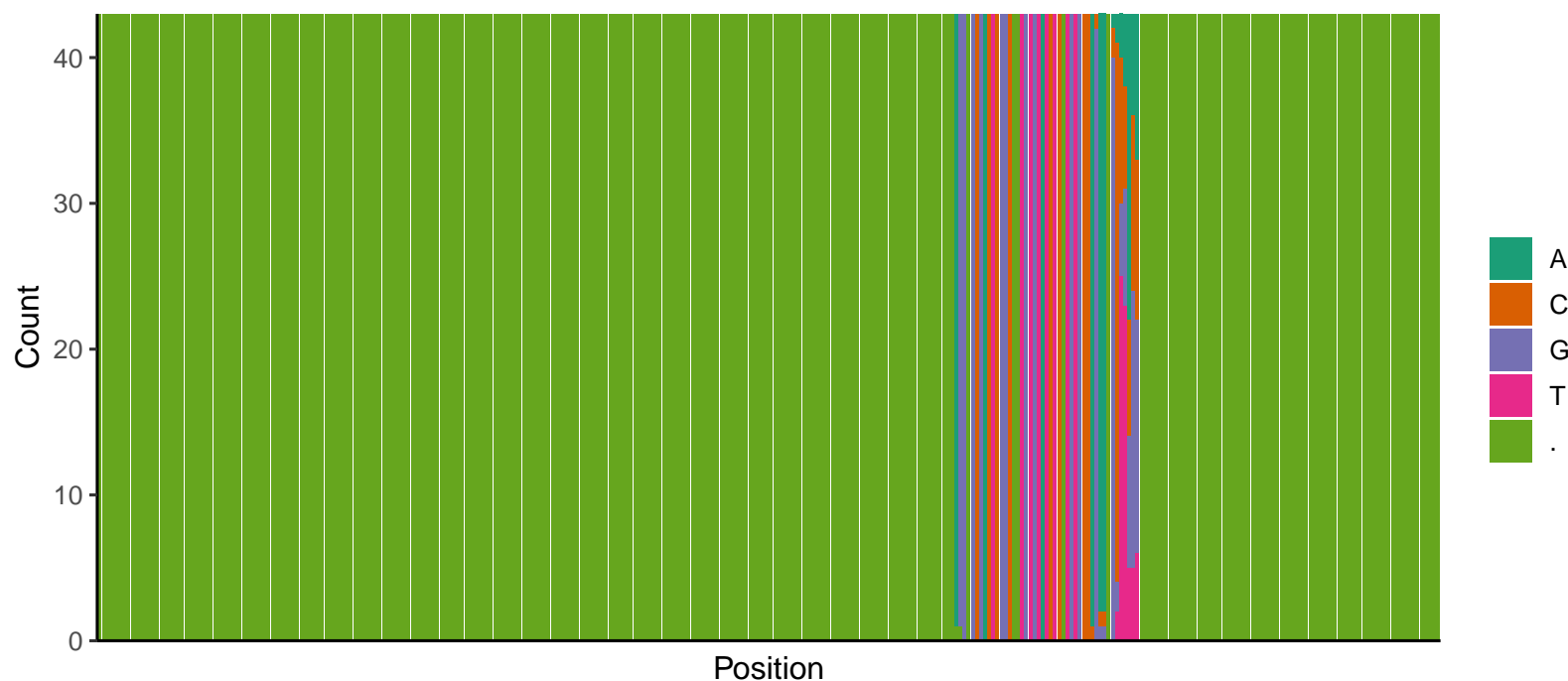
Gene TRBV7-3\*ap01\_G301A



Gene TRBV7-7\*ap01\_C315T



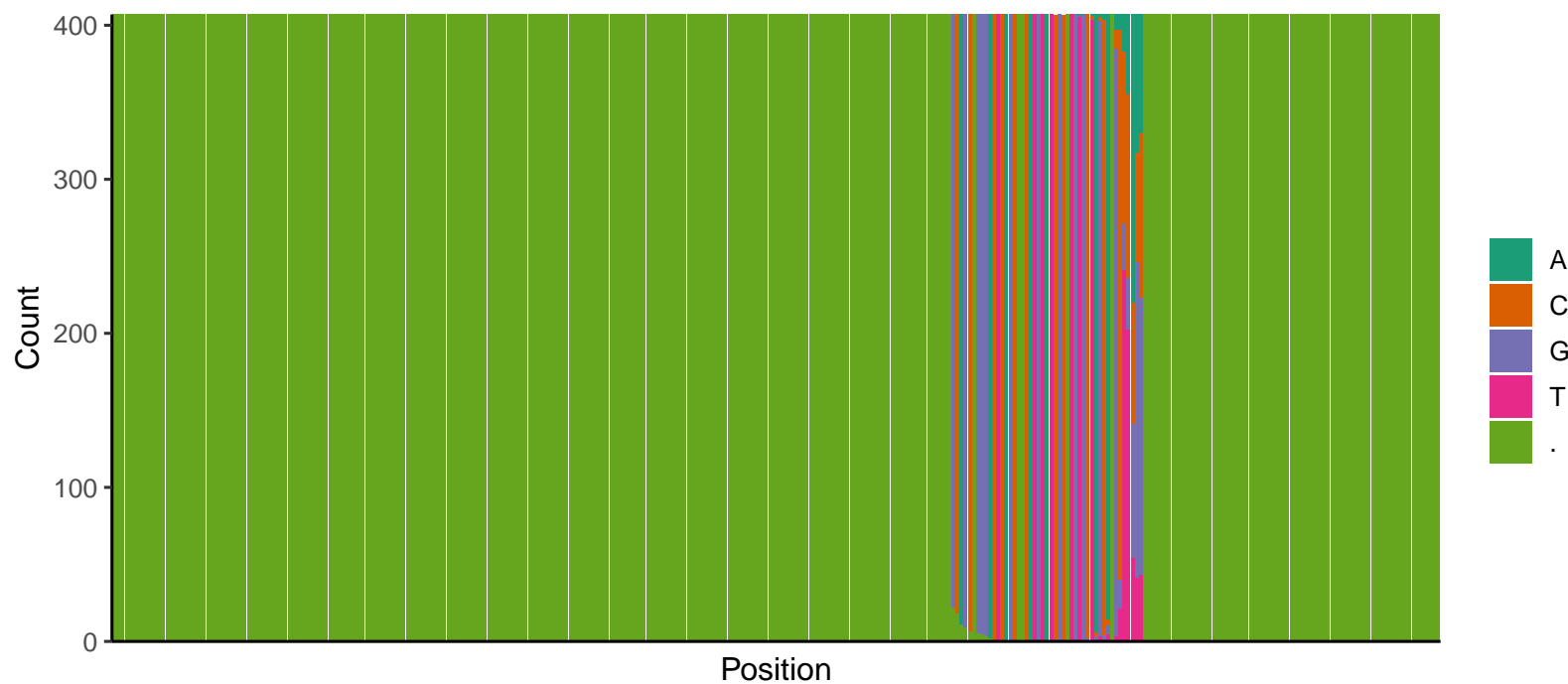
Gene TRBV7-1\*ap01\_G291C\_T296C



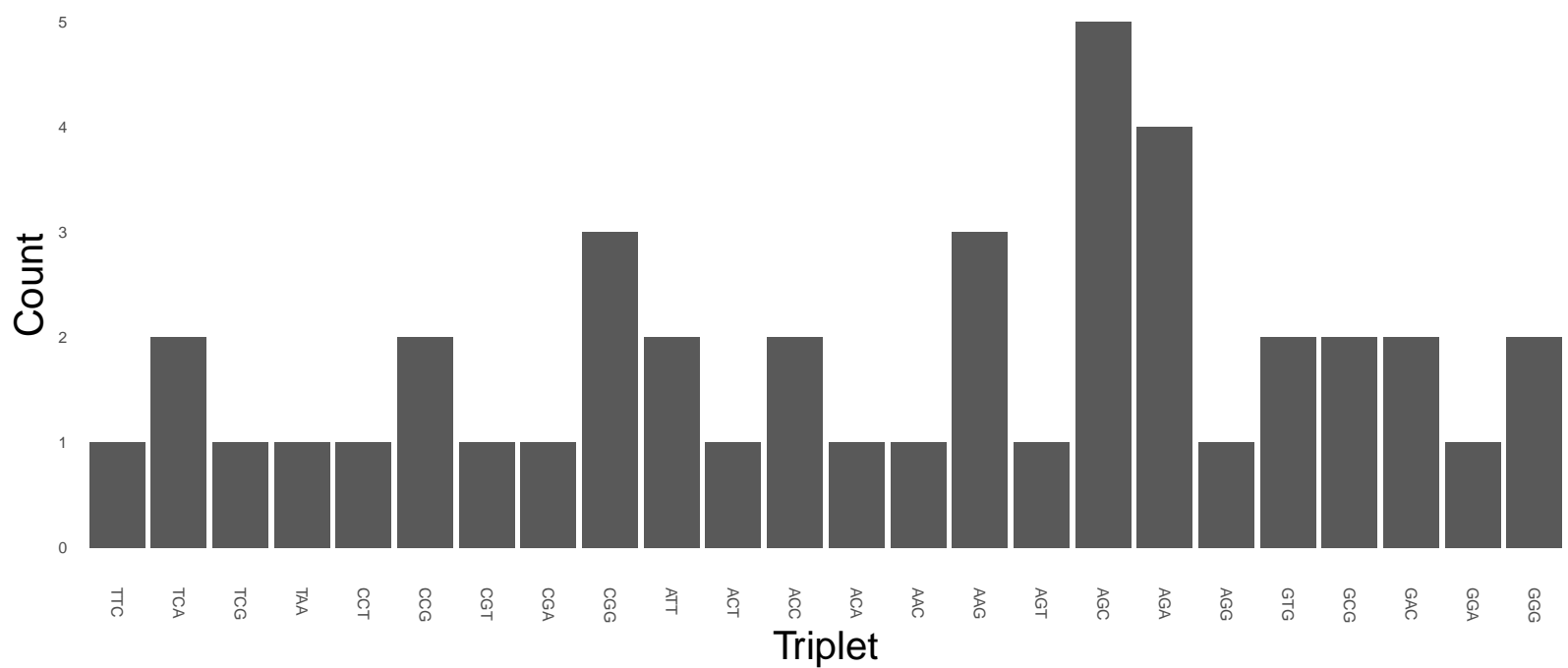
Gene TRBV7-3\*ap01\_G301A



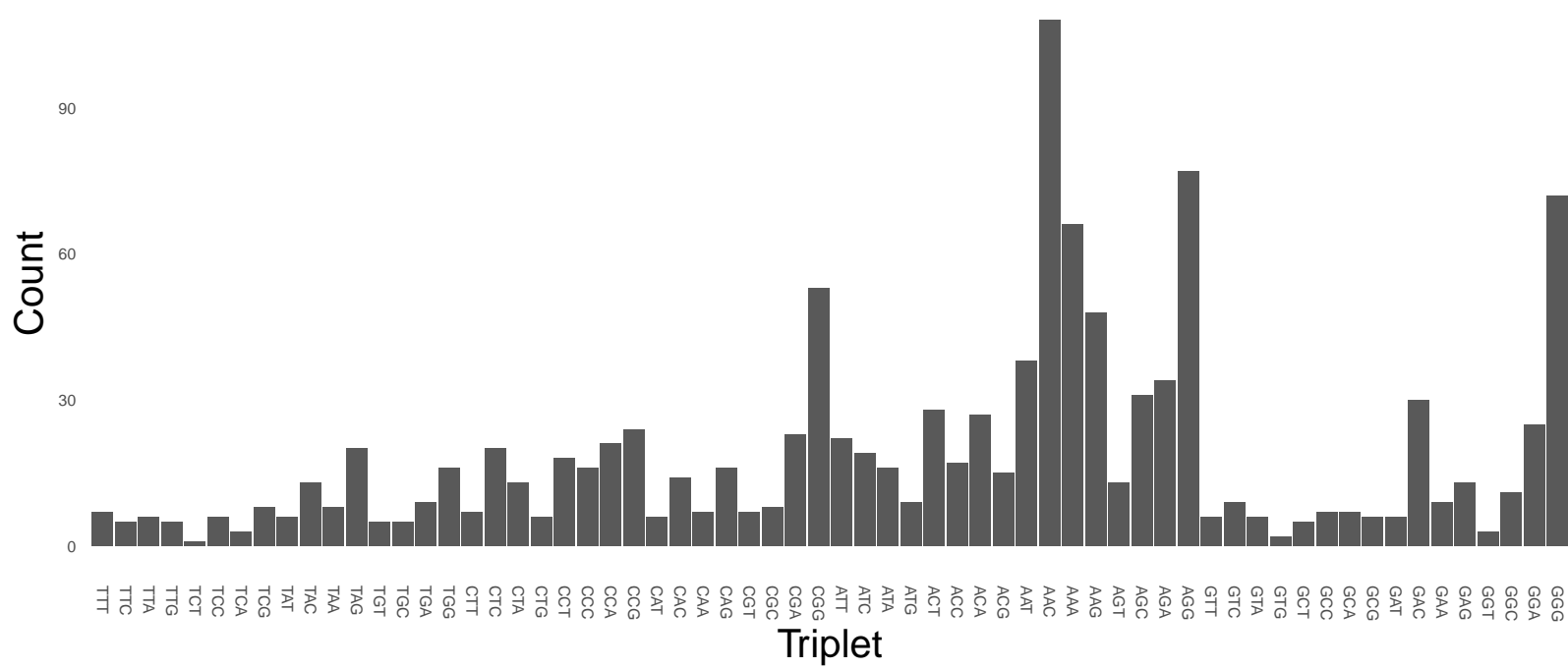
Gene TRBV7-7\*ap01\_C315T



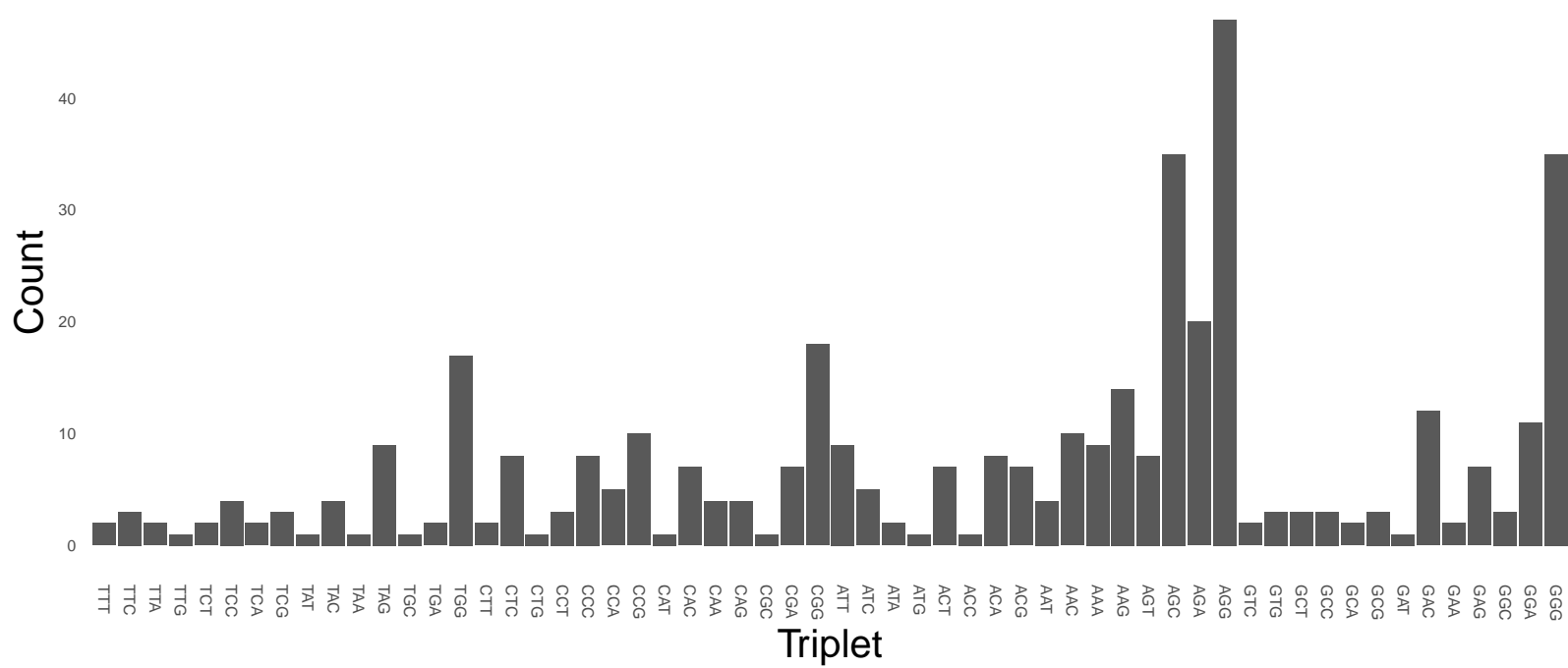
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



TRBV7-3\*ap01\_G301A- Final 3 nucleotides as a triplet

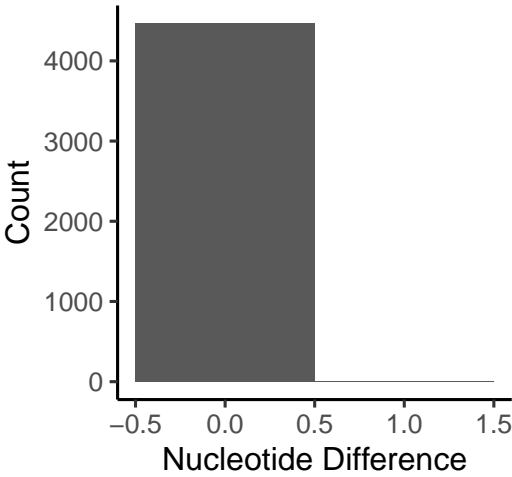


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



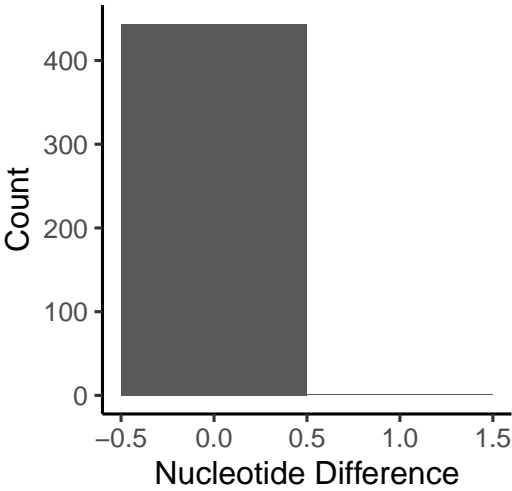
TRBV20–1\*ap01

4478 sequences assigned  
4467 (99.8%) exact matches, in which:  
4453 unique CDR3  
13 unique J



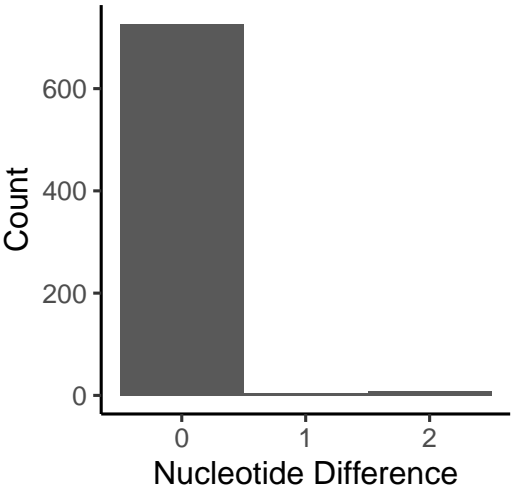
TRBV10–2\*ap01

445 sequences assigned  
444 (99.8%) exact matches, in which:  
444 unique CDR3  
13 unique J



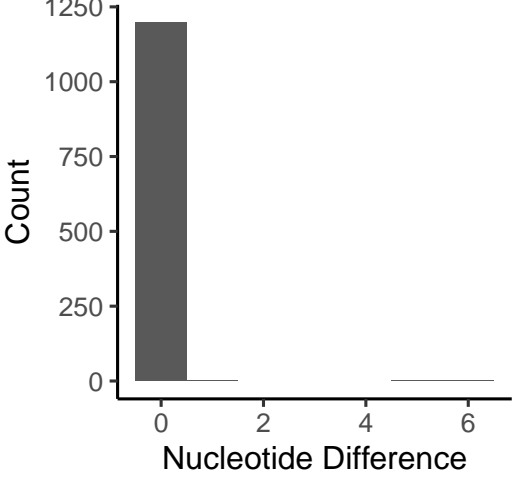
TRBV13\*ap01

739 sequences assigned  
727 (98.4%) exact matches, in which:  
724 unique CDR3  
13 unique J



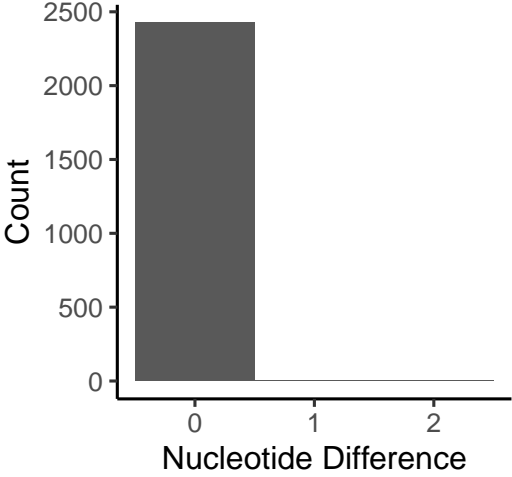
TRBV10–1\*ap01

1201 sequences assigned  
1197 (99.7%) exact matches, in which:  
1196 unique CDR3  
13 unique J



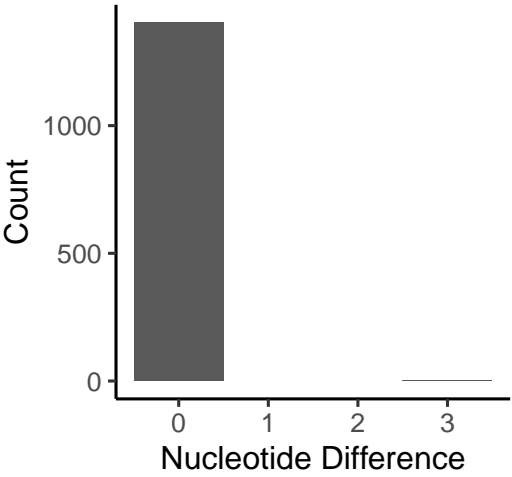
TRBV10–3\*ap01

2433 sequences assigned  
2426 (99.7%) exact matches, in which:  
2419 unique CDR3  
13 unique J



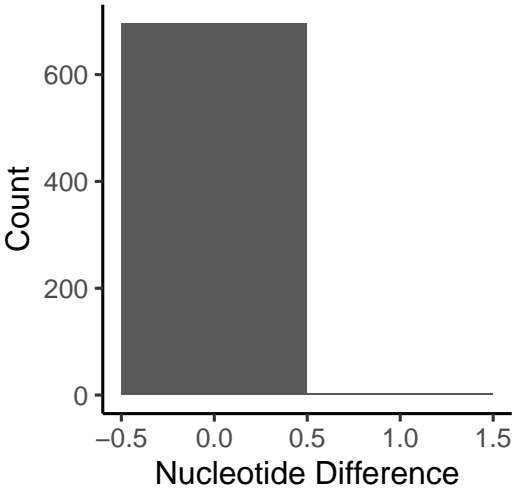
TRBV14\*ap01

1404 sequences assigned  
1403 (99.9%) exact matches, in which:  
1401 unique CDR3  
13 unique J



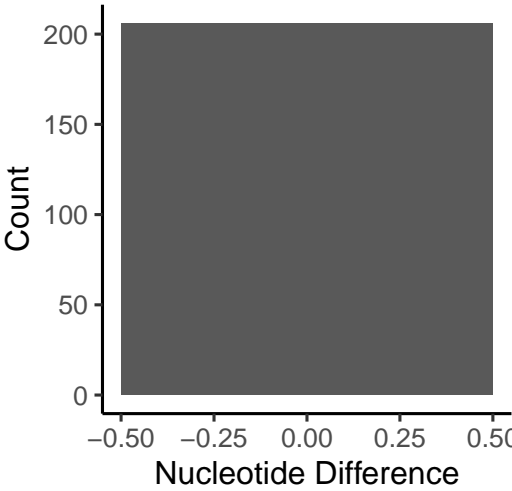
TRBV20–1\*ap02

699 sequences assigned  
696 (99.6%) exact matches, in which:  
696 unique CDR3  
13 unique J



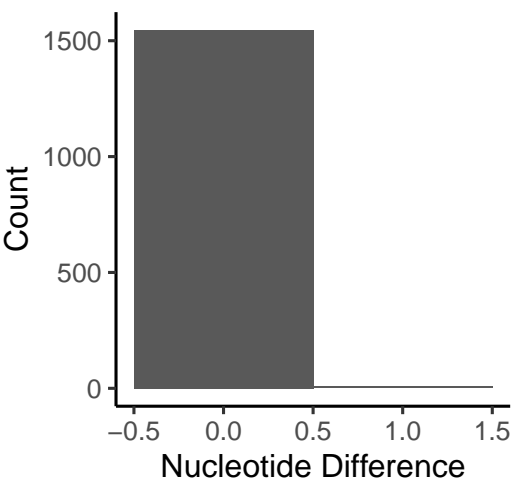
TRBV1\*ap01

206 sequences assigned  
206 (100%) exact matches, in which:  
206 unique CDR3  
13 unique J



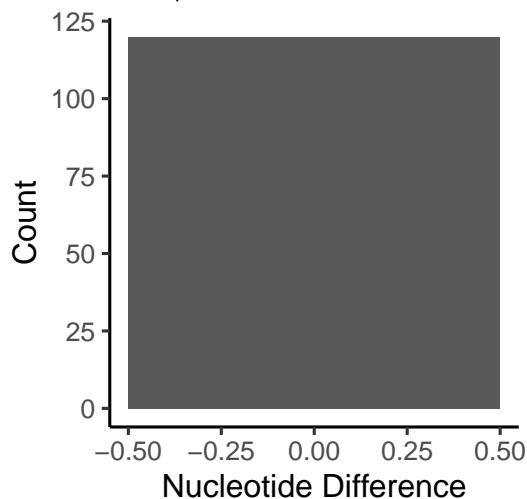
TRBV15\*ap02

1554 sequences assigned  
1546 (99.5%) exact matches, in which:  
1537 unique CDR3  
13 unique J



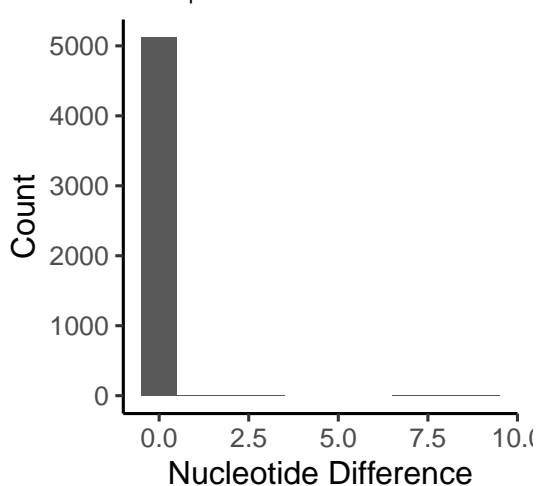
### TRBV16\*ap01

120 sequences assigned  
120 (100%) exact matches, in which:  
119 unique CDR3  
13 unique J



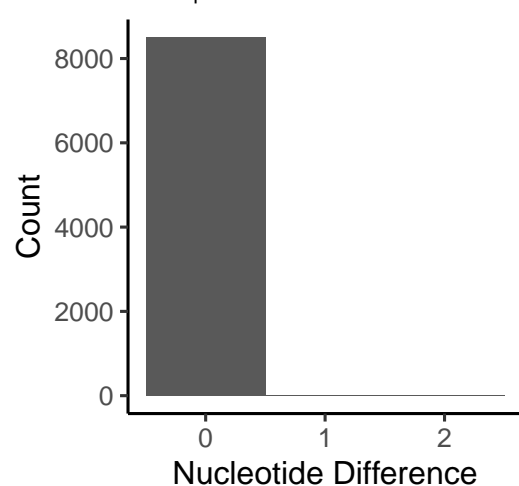
### TRBV19\*ap01

5135 sequences assigned  
5121 (99.7%) exact matches, in which:  
5120 unique CDR3  
13 unique J



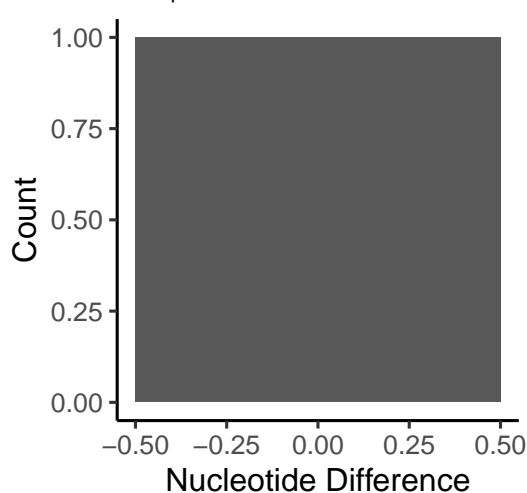
### TRBV28\*ap01

8518 sequences assigned  
8501 (99.8%) exact matches, in which:  
8490 unique CDR3  
13 unique J



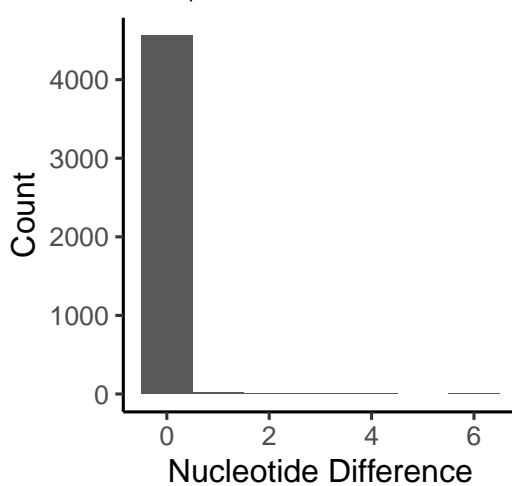
### TRBV17\*ap01

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



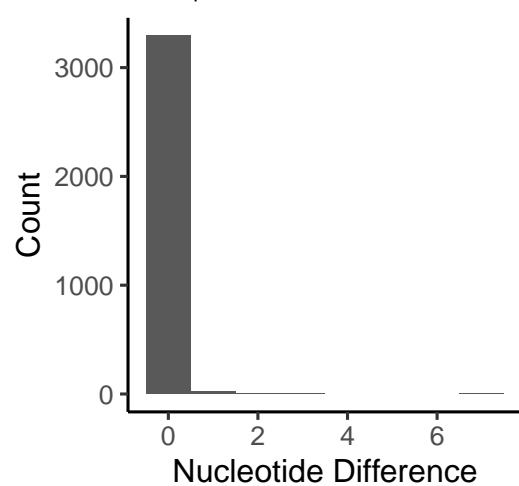
### TRBV2\*ap01

4584 sequences assigned  
4559 (99.5%) exact matches, in which:  
4552 unique CDR3  
13 unique J



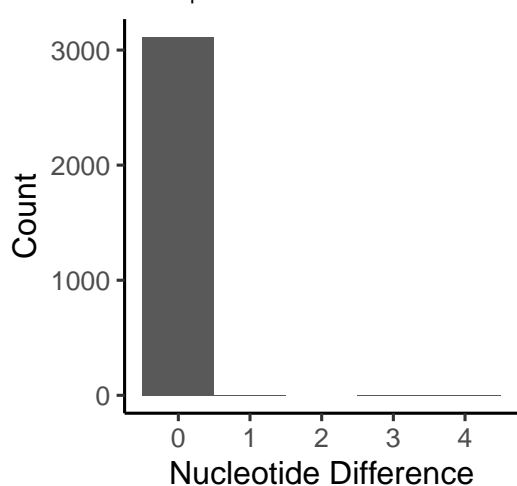
### TRBV30\*ap01

3316 sequences assigned  
3293 (99.3%) exact matches, in which:  
3285 unique CDR3  
13 unique J



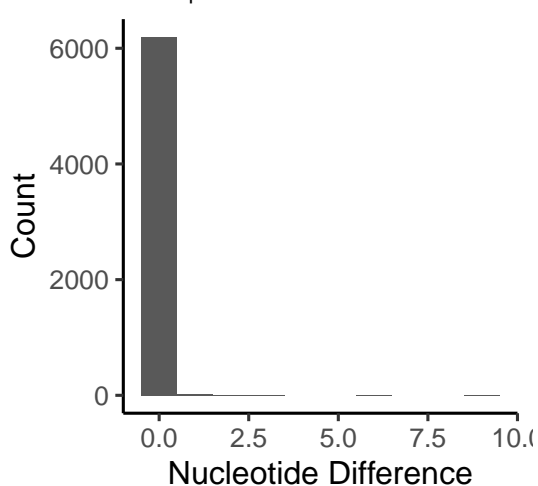
### TRBV18\*ap01

3117 sequences assigned  
3113 (99.9%) exact matches, in which:  
3111 unique CDR3  
13 unique J



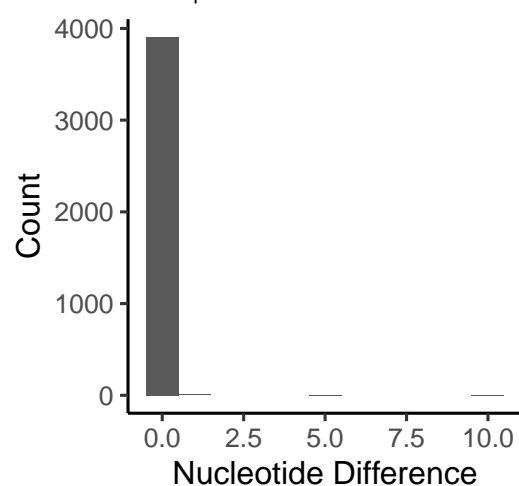
### TRBV27\*ap01

6221 sequences assigned  
6194 (99.6%) exact matches, in which:  
6169 unique CDR3  
13 unique J



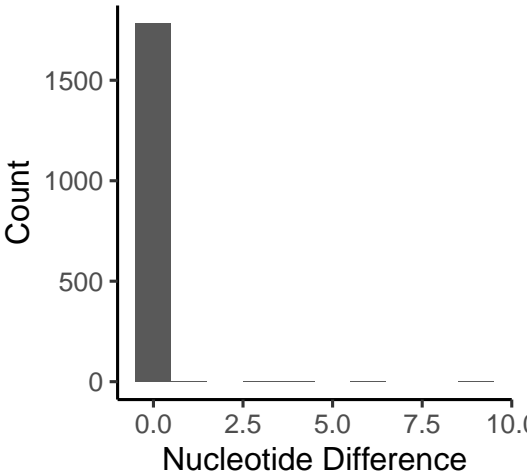
### TRBV9\*ap01

3916 sequences assigned  
3906 (99.7%) exact matches, in which:  
3891 unique CDR3  
13 unique J



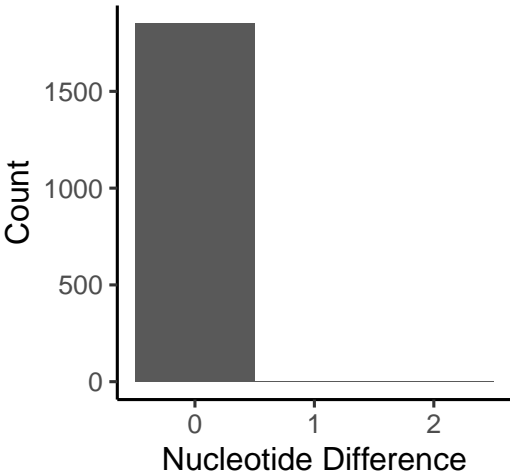
TRBV21-1\*ap01

1790 sequences assigned  
1783 (99.6%) exact matches, in which:  
1781 unique CDR3  
13 unique J



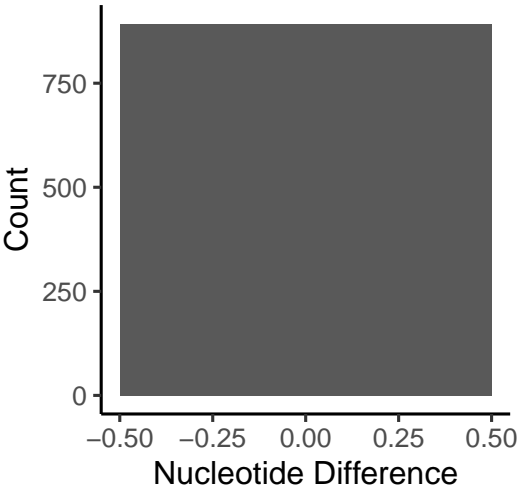
TRBV11-3\*ap01

1857 sequences assigned  
1851 (99.7%) exact matches, in which:  
1851 unique CDR3  
13 unique J



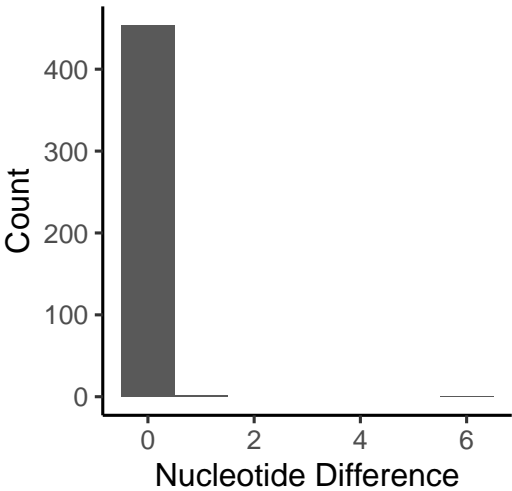
TRBV12-5\*ap01

893 sequences assigned  
893 (100%) exact matches, in which:  
893 unique CDR3  
13 unique J



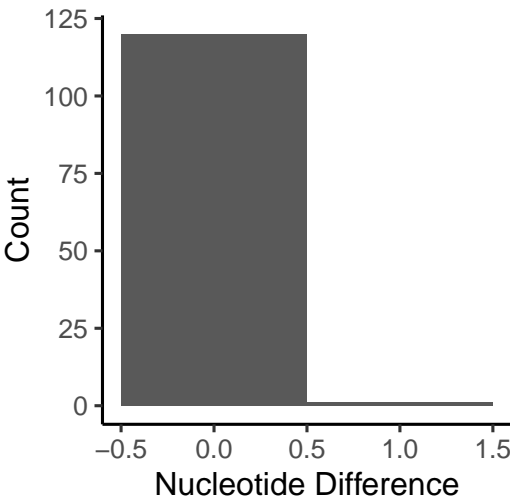
TRBV11-1\*ap01

457 sequences assigned  
454 (99.3%) exact matches, in which:  
453 unique CDR3  
13 unique J



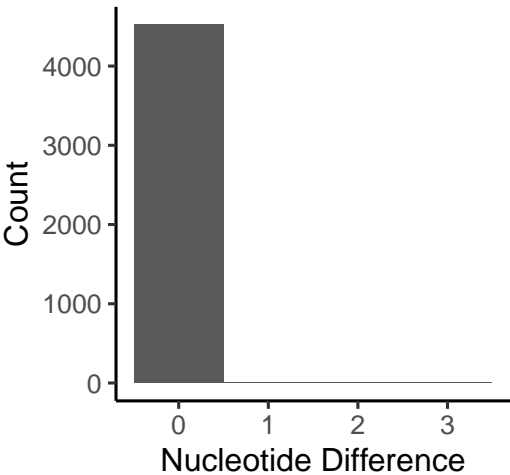
TRBV12-1\*ap01

121 sequences assigned  
120 (99.2%) exact matches, in which:  
120 unique CDR3  
13 unique J



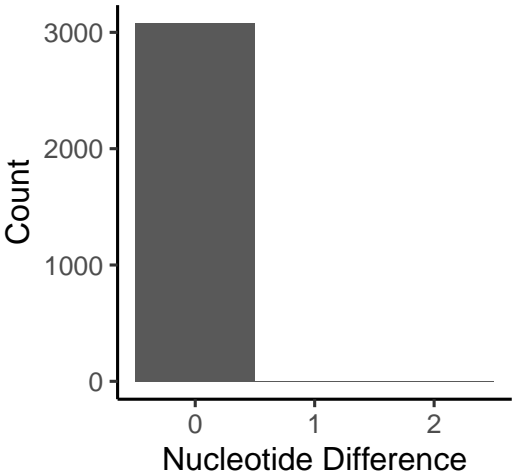
TRBV12-34\*ap01

4536 sequences assigned  
4522 (99.7%) exact matches, in which:  
4513 unique CDR3  
13 unique J



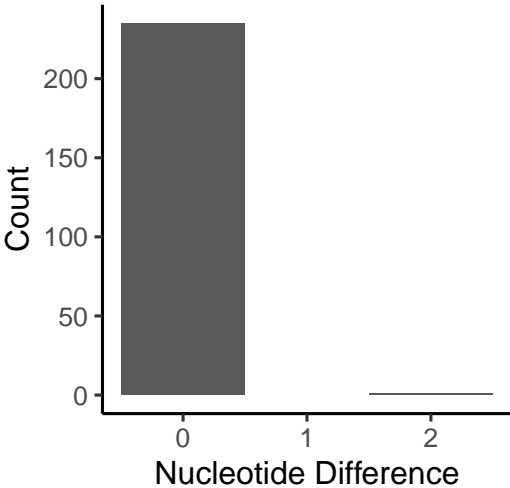
TRBV11-2\*ap01

3085 sequences assigned  
3080 (99.8%) exact matches, in which:  
3076 unique CDR3  
13 unique J



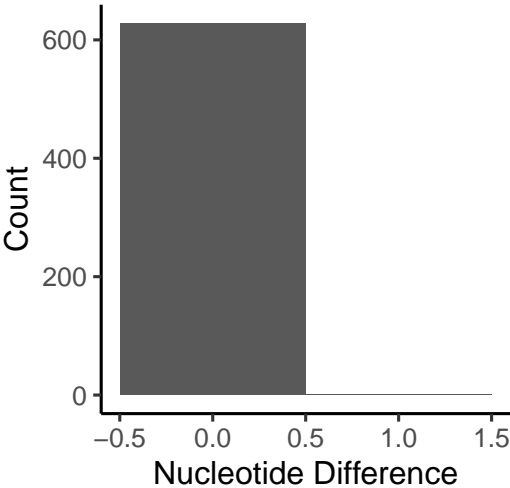
TRBV12-2\*ap01

236 sequences assigned  
235 (99.6%) exact matches, in which:  
235 unique CDR3  
13 unique J



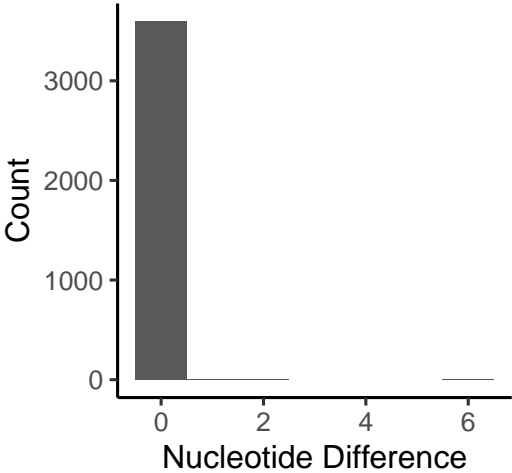
TRBV23-1\*ap01

629 sequences assigned  
628 (99.8%) exact matches, in which:  
628 unique CDR3  
13 unique J



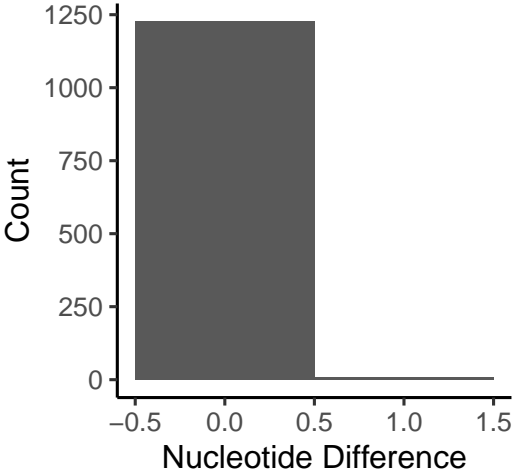
TRBV3-12\*ap01

3610 sequences assigned  
3596 (99.6%) exact matches, in which:  
3588 unique CDR3  
13 unique J



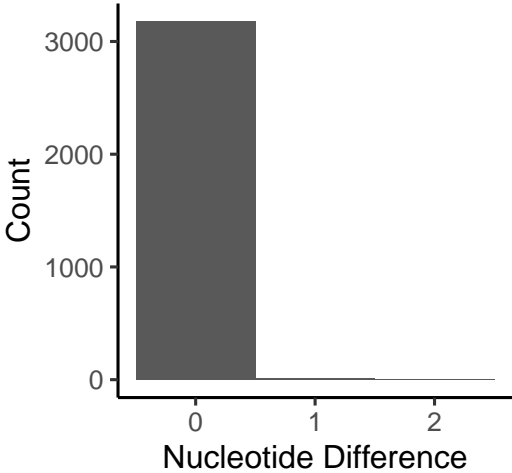
TRBV4-2\*ap01

1234 sequences assigned  
1227 (99.4%) exact matches, in which:  
1226 unique CDR3  
13 unique J



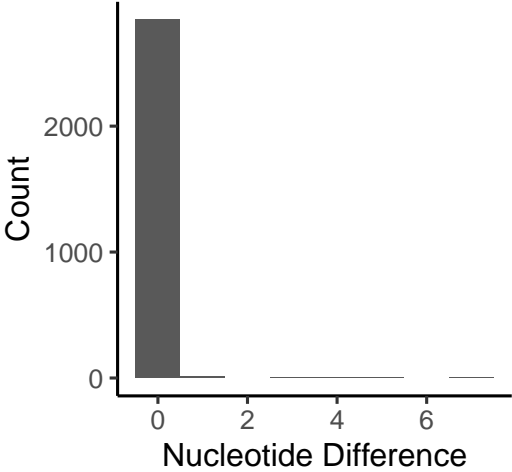
TRBV5-1\*ap01

3188 sequences assigned  
3178 (99.7%) exact matches, in which:  
3149 unique CDR3  
13 unique J



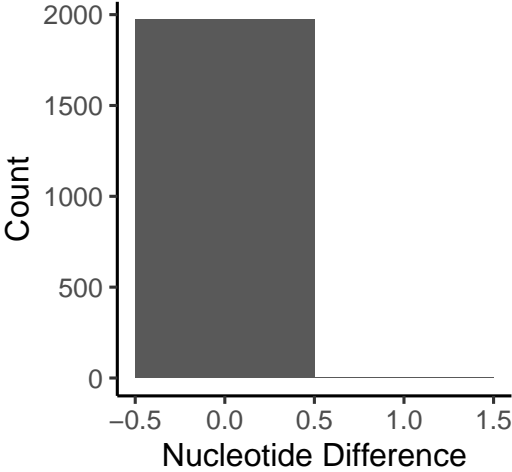
TRBV24-1\*ap01

2858 sequences assigned  
2845 (99.5%) exact matches, in which:  
2842 unique CDR3  
13 unique J



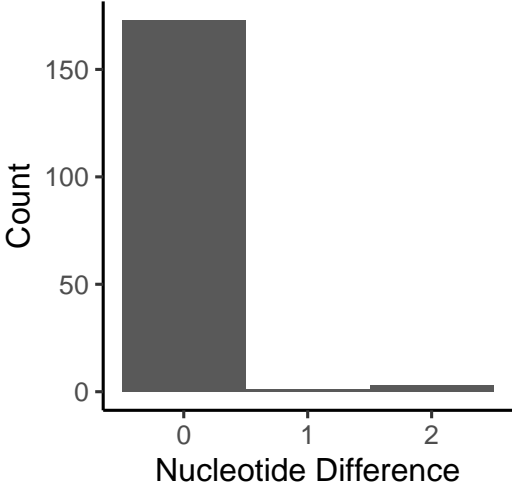
TRBV4-3\*ap01

1976 sequences assigned  
1972 (99.8%) exact matches, in which:  
1968 unique CDR3  
13 unique J



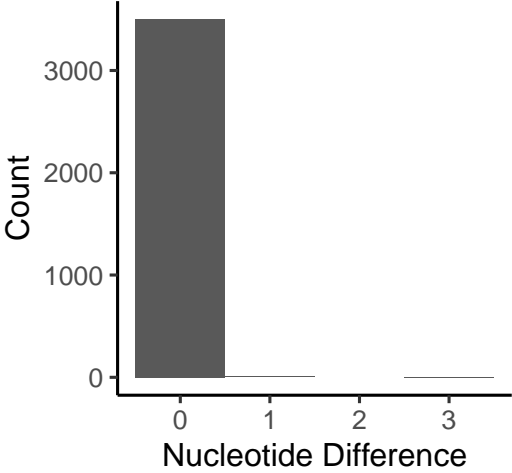
TRBV5-3\*ap01

177 sequences assigned  
173 (97.7%) exact matches, in which:  
173 unique CDR3  
12 unique J



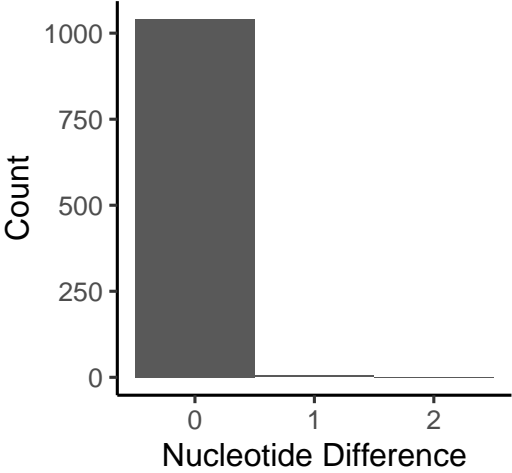
TRBV4-1\*ap01

3512 sequences assigned  
3503 (99.7%) exact matches, in which:  
3493 unique CDR3  
13 unique J



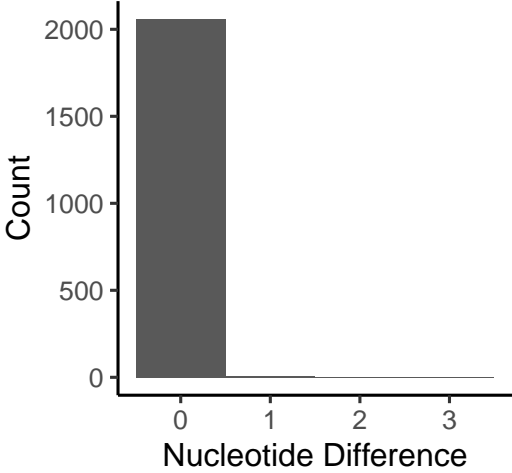
TRBV25-1\*ap01

1047 sequences assigned  
1041 (99.4%) exact matches, in which:  
1040 unique CDR3  
13 unique J



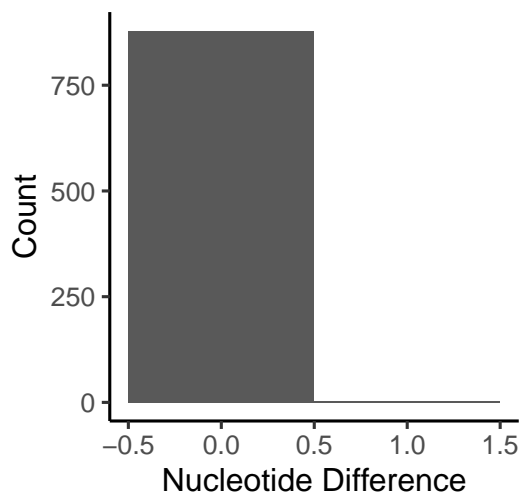
TRBV5-4\*ap01

2067 sequences assigned  
2059 (99.6%) exact matches, in which:  
2057 unique CDR3  
13 unique J



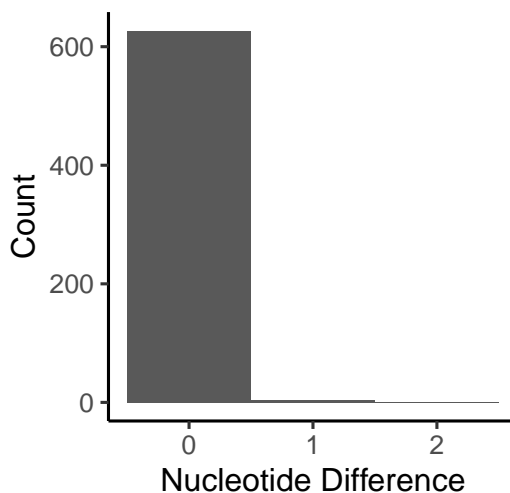
### TRBV5-5\*ap01

882 sequences assigned  
879 (99.7%) exact matches, in which:  
879 unique CDR3  
13 unique J



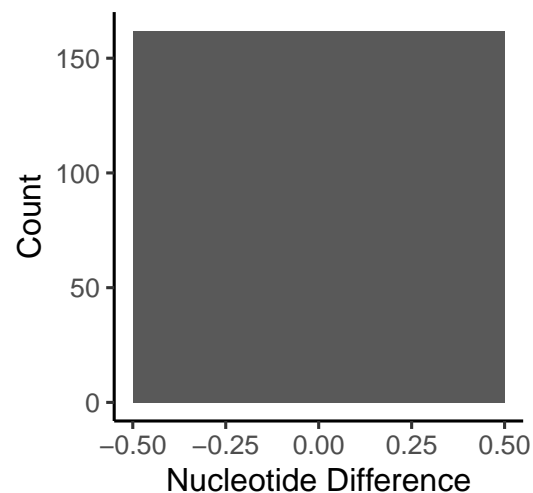
### TRBV5-8\*ap01

632 sequences assigned  
627 (99.2%) exact matches, in which:  
627 unique CDR3  
13 unique J



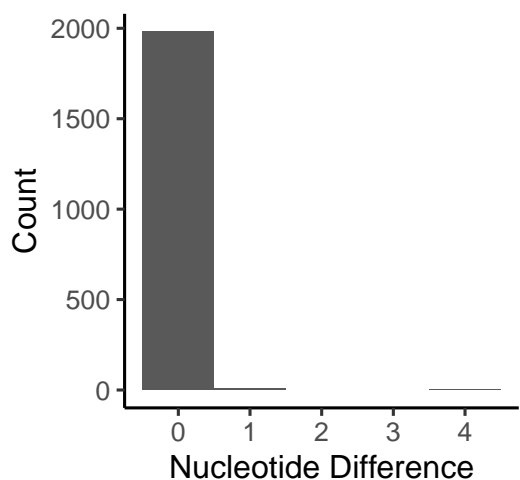
### TRBV6-7\*ap01

162 sequences assigned  
162 (100%) exact matches, in which:  
160 unique CDR3  
13 unique J



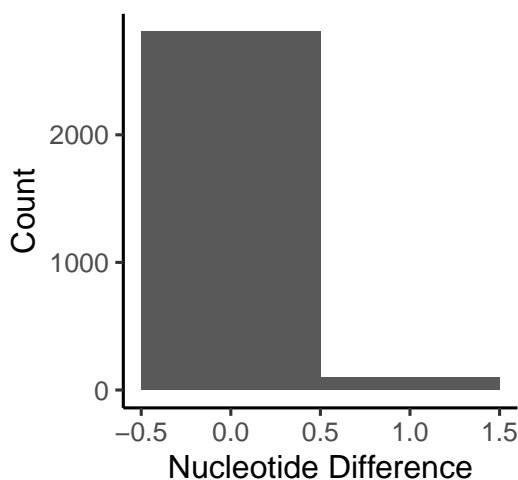
### TRBV5-6\*ap01

1990 sequences assigned  
1981 (99.5%) exact matches, in which:  
1971 unique CDR3  
13 unique J



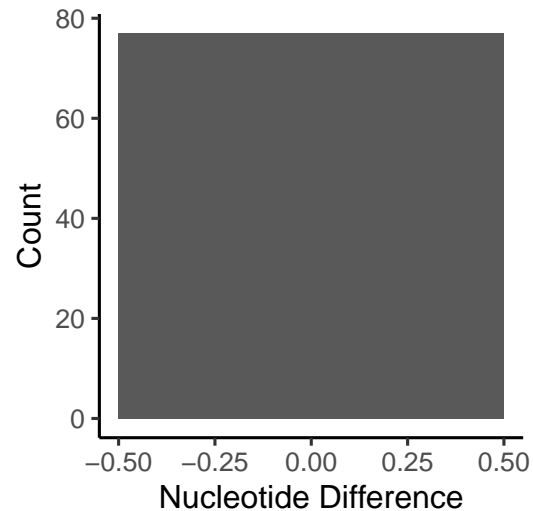
### TRBV6-1\*ap01

2906 sequences assigned  
2808 (96.6%) exact matches, in which:  
2797 unique CDR3  
13 unique J



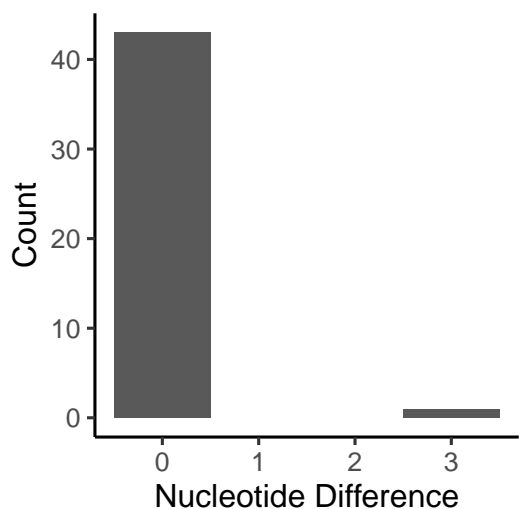
### TRBV6-8\*ap01

77 sequences assigned  
77 (100%) exact matches, in which:  
76 unique CDR3  
12 unique J



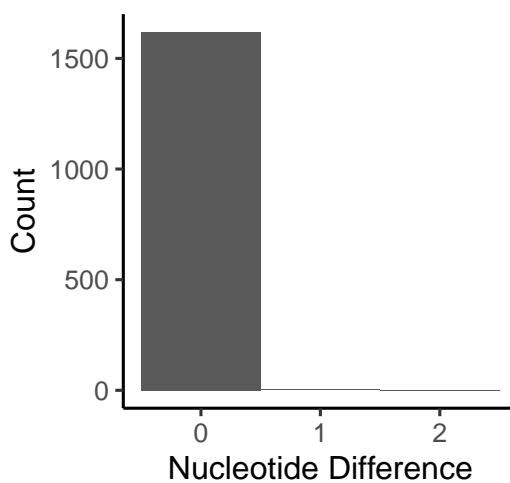
### TRBV5-7\*ap01

44 sequences assigned  
43 (97.7%) exact matches, in which:  
43 unique CDR3  
12 unique J



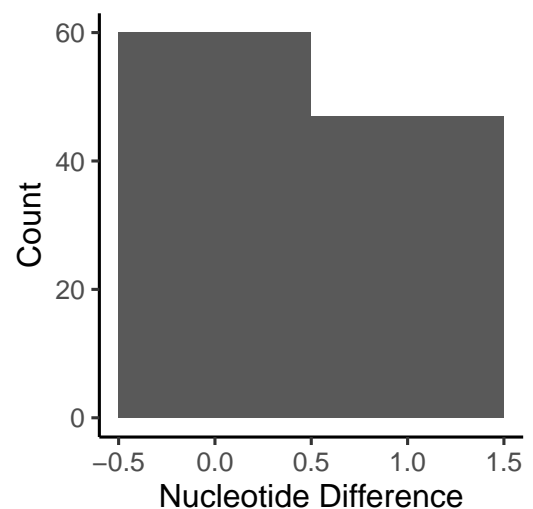
### TRBV6-4\*ap01

1624 sequences assigned  
1619 (99.7%) exact matches, in which:  
1618 unique CDR3  
13 unique J



### TRBV6-9\*ap01

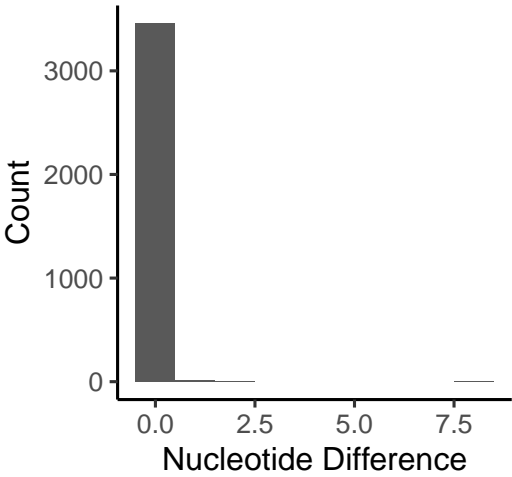
107 sequences assigned  
60 (56.1%) exact matches, in which:  
60 unique CDR3  
12 unique J





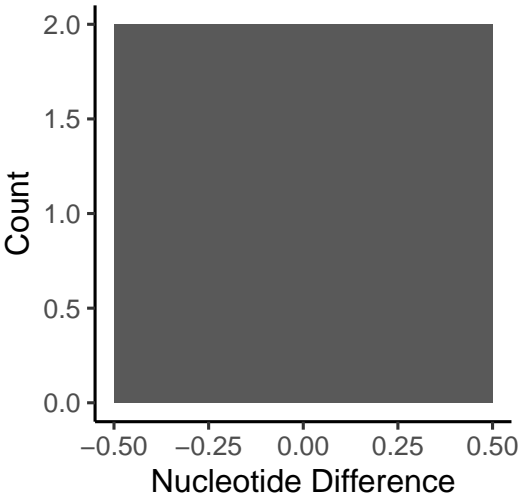
TRBV6-23\*ap01

3471 sequences assigned  
3458 (99.6%) exact matches, in which:  
3441 unique CDR3  
13 unique J



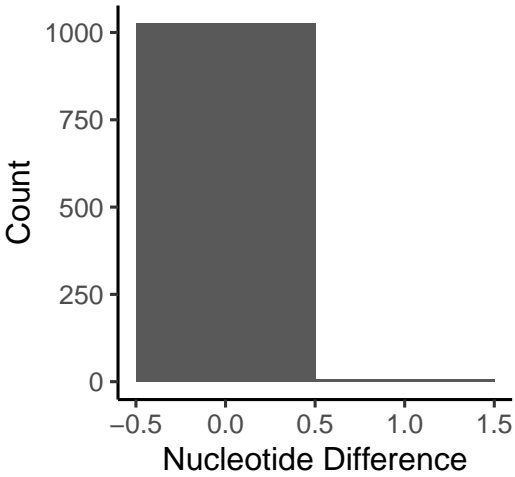
TRBV7-1\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



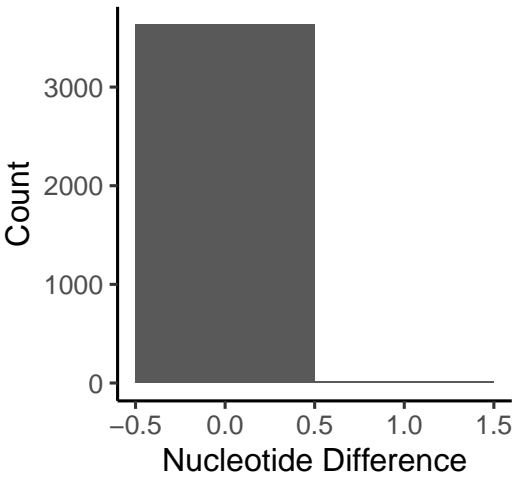
TRBV7-3\*ap01

1032 sequences assigned  
1026 (99.4%) exact matches, in which:  
1023 unique CDR3  
13 unique J



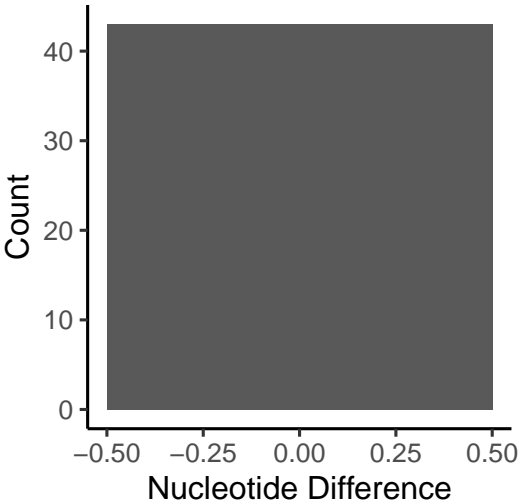
TRBV6-56\*ap01

3643 sequences assigned  
3632 (99.7%) exact matches, in which:  
3614 unique CDR3  
13 unique J



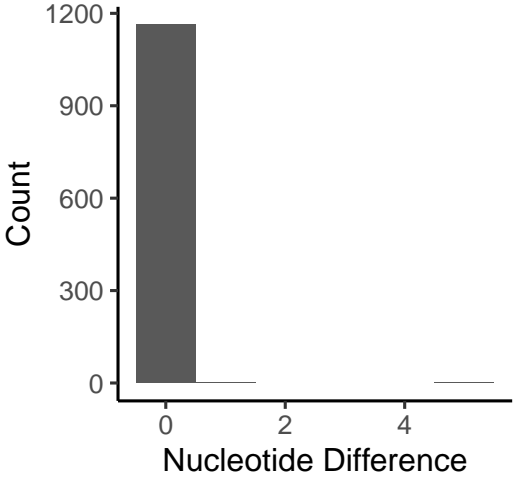
TRBV7-1\*ap01\_G291C\_T

43 sequences assigned  
43 (100%) exact matches, in which:  
42 unique CDR3  
11 unique J



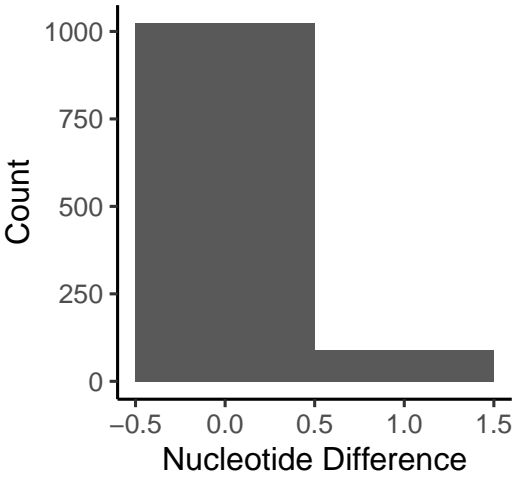
TRBV7-3\*ap01\_G301A

1167 sequences assigned  
1163 (99.7%) exact matches, in which:  
1160 unique CDR3  
12 unique J



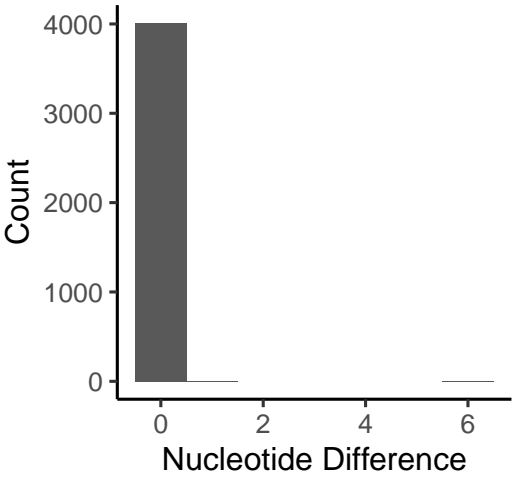
TRBV6-56\*ap02

1114 sequences assigned  
1024 (91.9%) exact matches, in which:  
1020 unique CDR3  
13 unique J



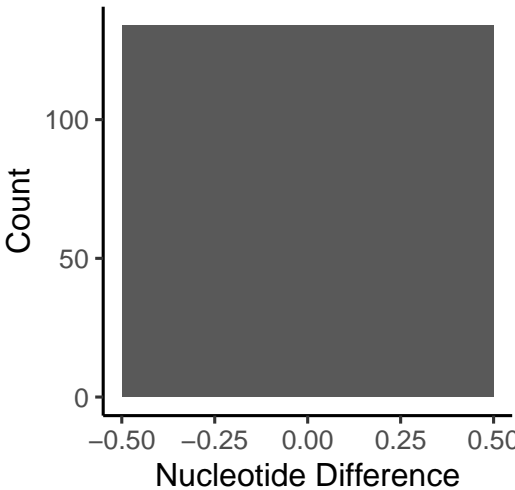
TRBV7-2\*ap01

4013 sequences assigned  
4010 (99.9%) exact matches, in which:  
4001 unique CDR3  
13 unique J



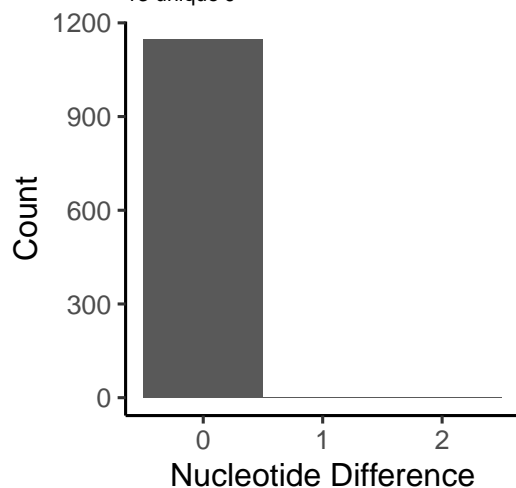
TRBV7-4\*ap01

134 sequences assigned  
134 (100%) exact matches, in which:  
134 unique CDR3  
13 unique J



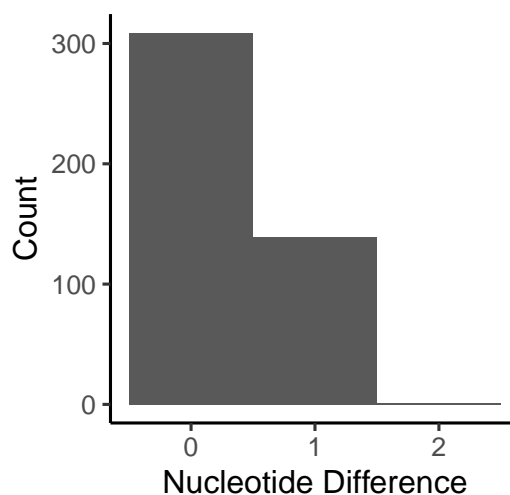
### TRBV7-6\*ap01

1150 sequences assigned  
1147 (99.7%) exact matches, in which:  
1144 unique CDR3  
13 unique J



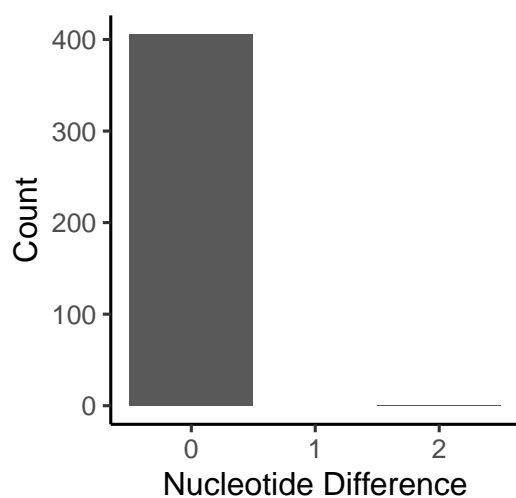
### TRBV7-8\*ap03

449 sequences assigned  
309 (68.8%) exact matches, in which:  
308 unique CDR3  
13 unique J



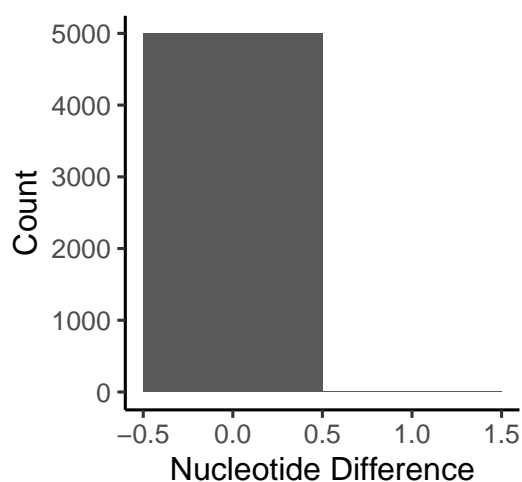
### TRBV7-7\*ap01\_C315T

407 sequences assigned  
406 (99.8%) exact matches, in which:  
406 unique CDR3  
13 unique J



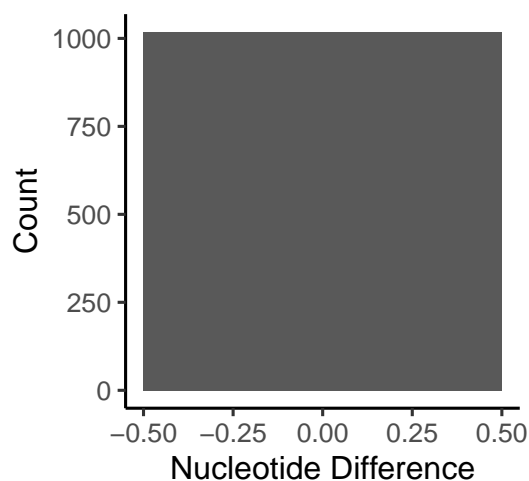
### TRBV7-9\*ap01

4998 sequences assigned  
4995 (99.9%) exact matches, in which:  
4992 unique CDR3  
13 unique J



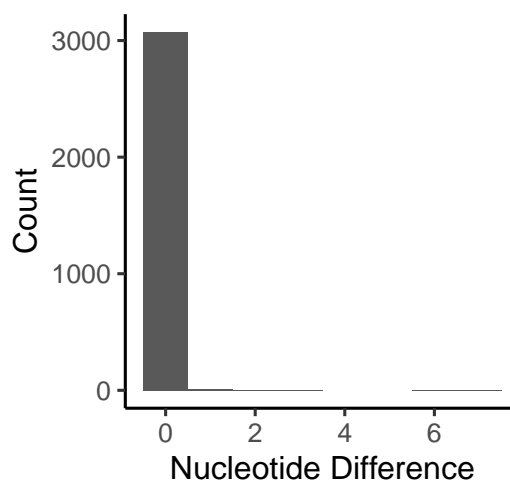
### TRBV7-8\*ap01

1018 sequences assigned  
1018 (100%) exact matches, in which:  
1016 unique CDR3  
13 unique J

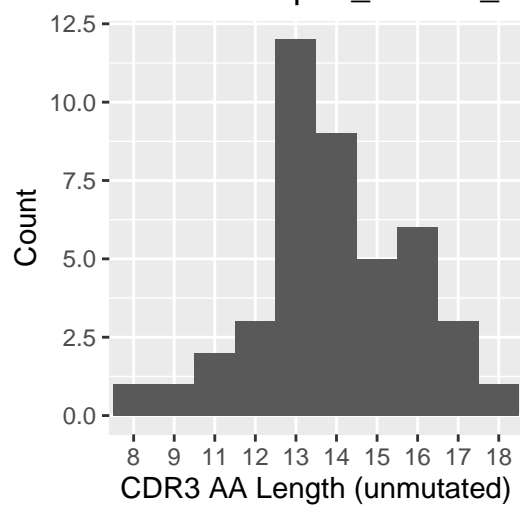


### TRBV29-1\*ap01

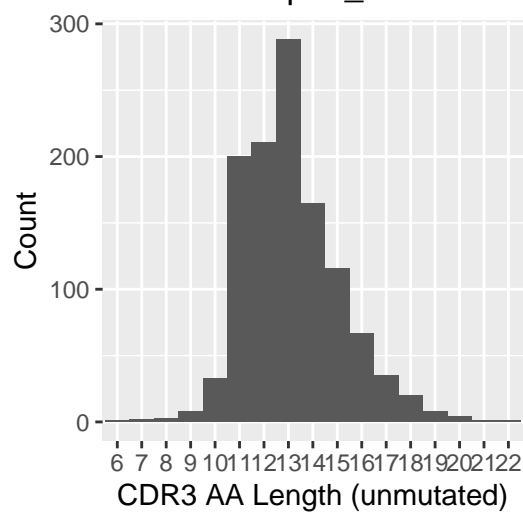
3091 sequences assigned  
3073 (99.4%) exact matches, in which:  
3067 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-3\*ap01\_G301A



TRBV7-7\*ap01\_C315T

