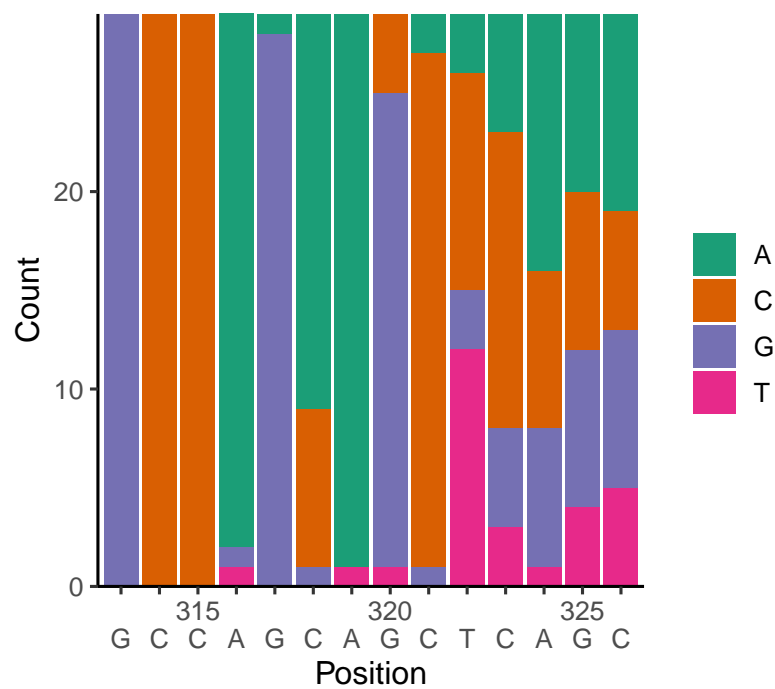
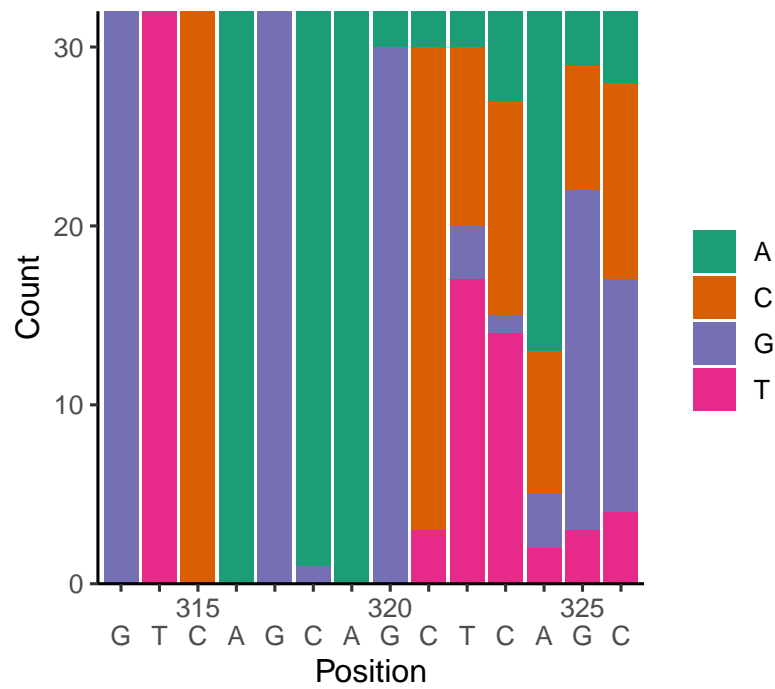


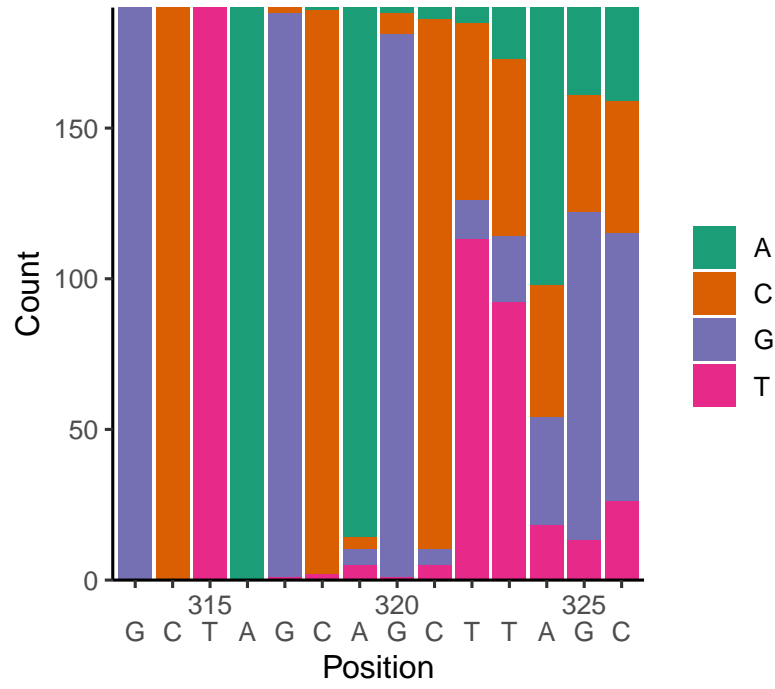
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-7\*ap01\_C315T



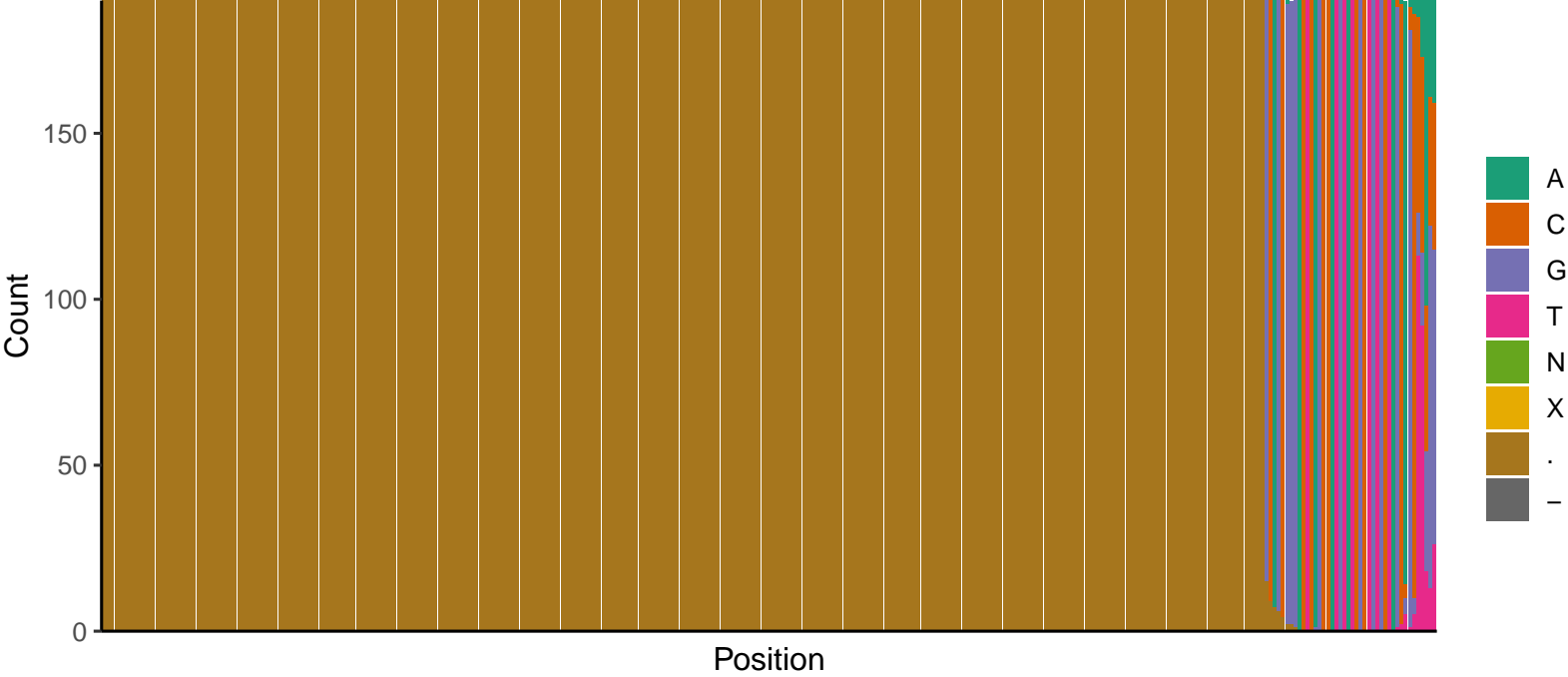
Gene TRBV7-1\*ap01\_T296C



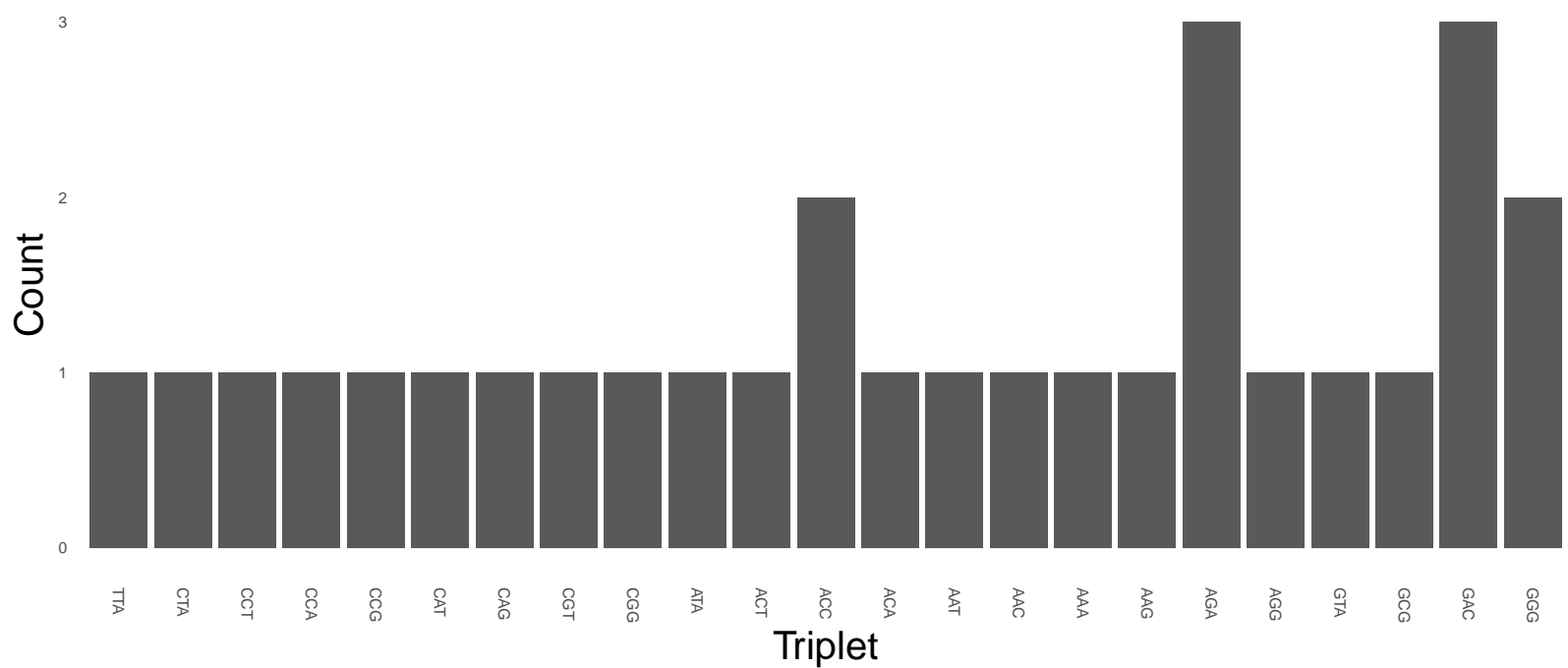
Gene TRBV7-1\*ap01\_T296C\_C314T



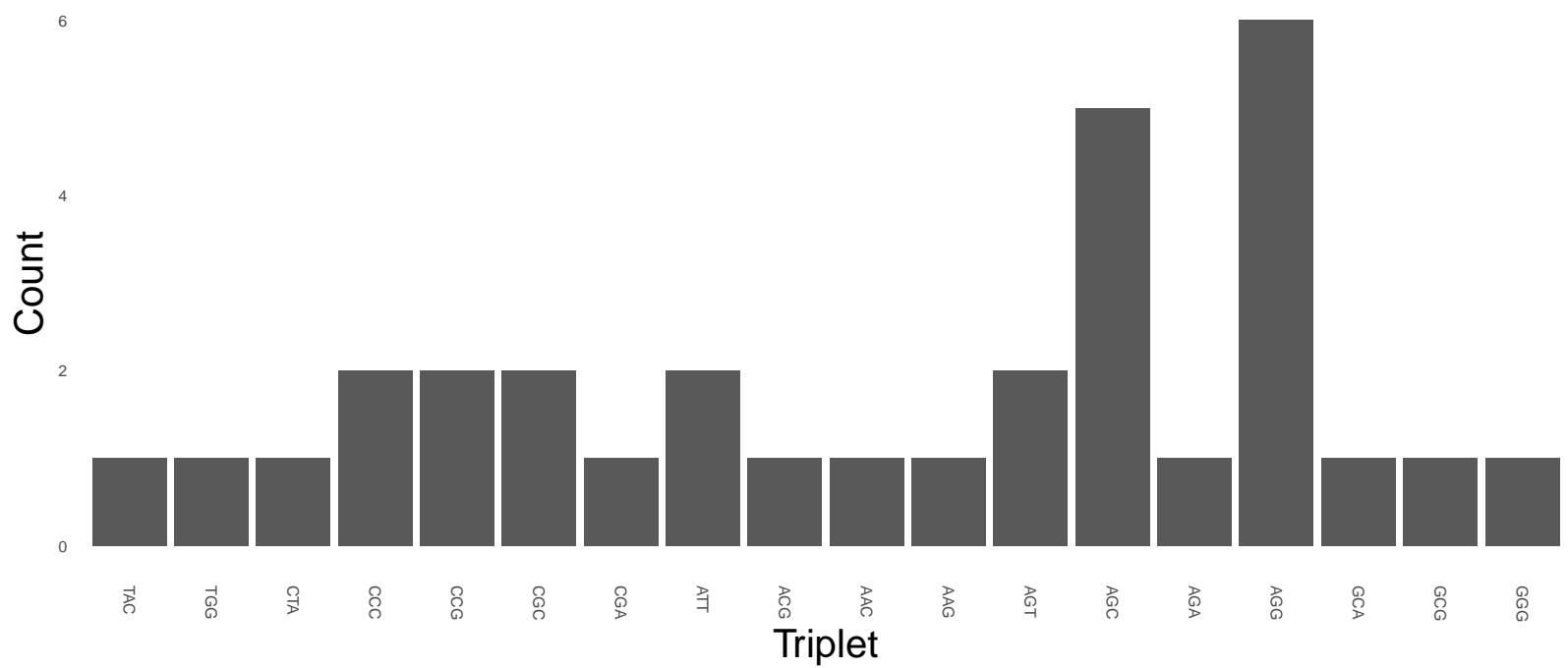
Gene TRBV7-7\*ap01\_C315T



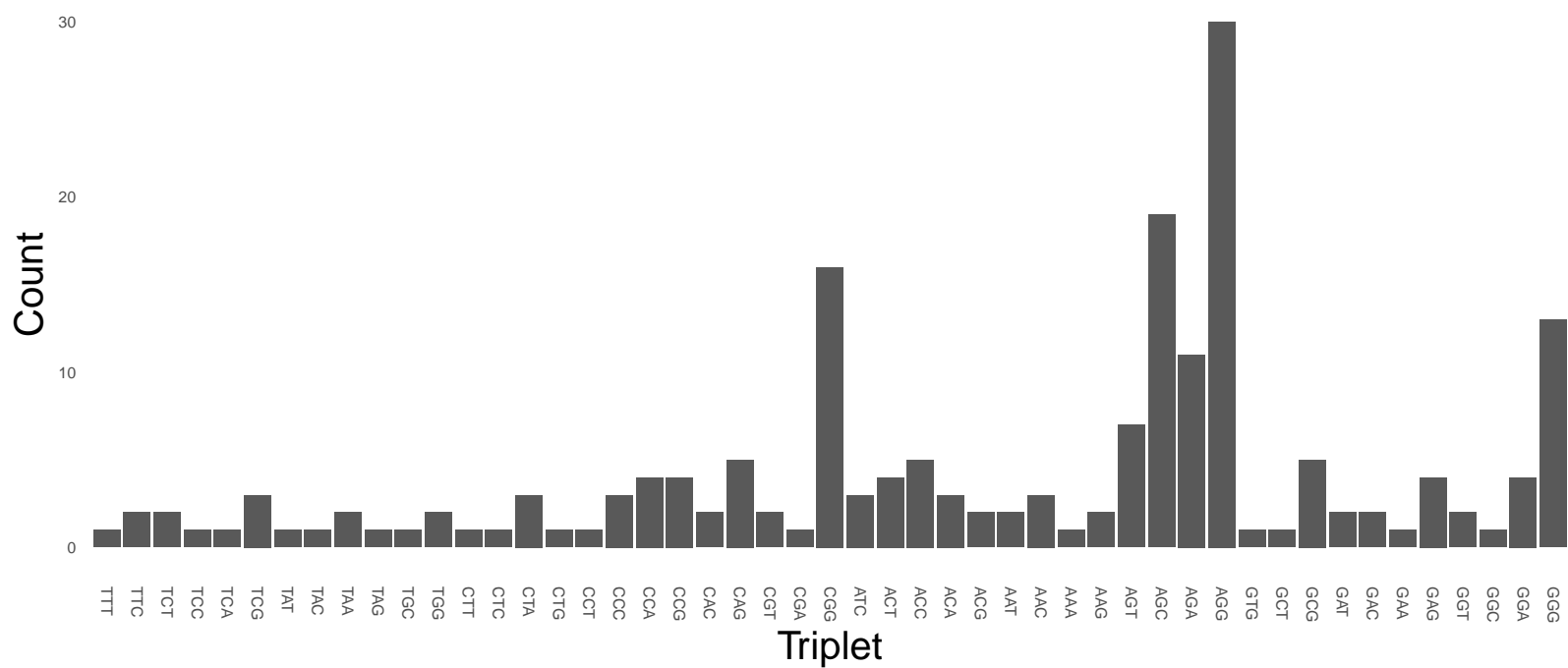
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



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

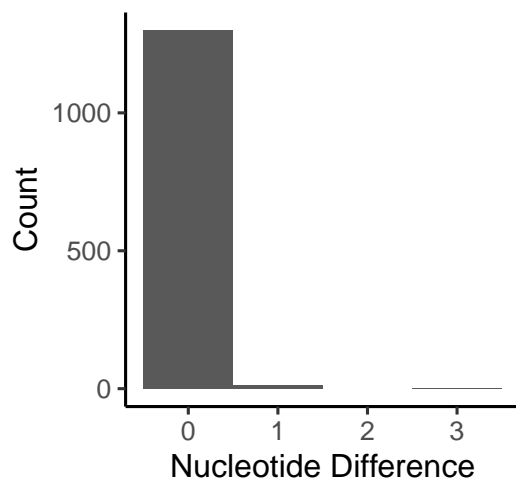


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



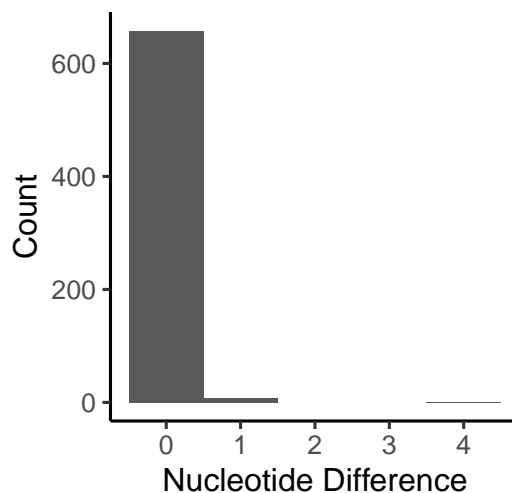
### TRBV10-1\*ap01

1311 sequences assigned  
1299 (99.1%) exact matches, in which:  
1280 unique CDR3  
13 unique J



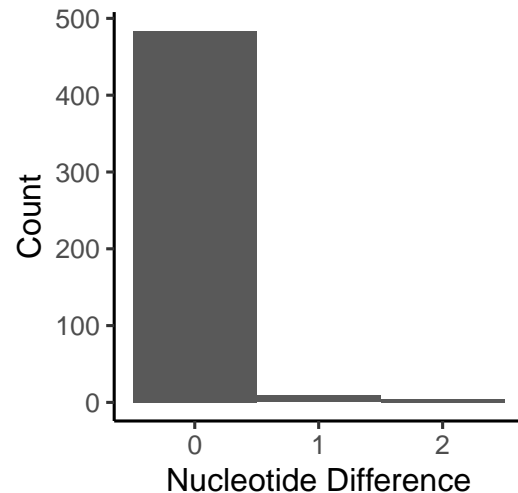
### TRBV10-2\*ap01

667 sequences assigned  
658 (98.7%) exact matches, in which:  
642 unique CDR3  
13 unique J



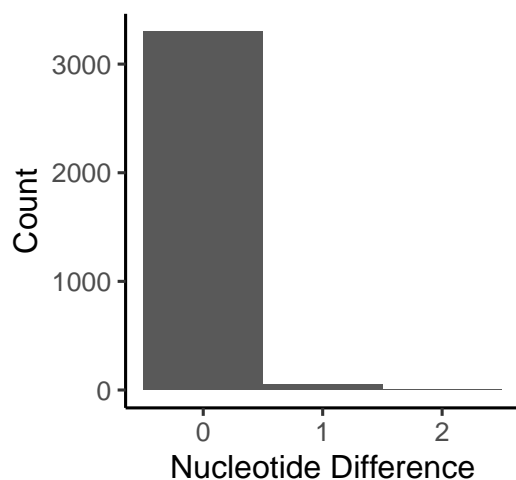
### TRBV13\*ap01

497 sequences assigned  
484 (97.4%) exact matches, in which:  
475 unique CDR3  
13 unique J



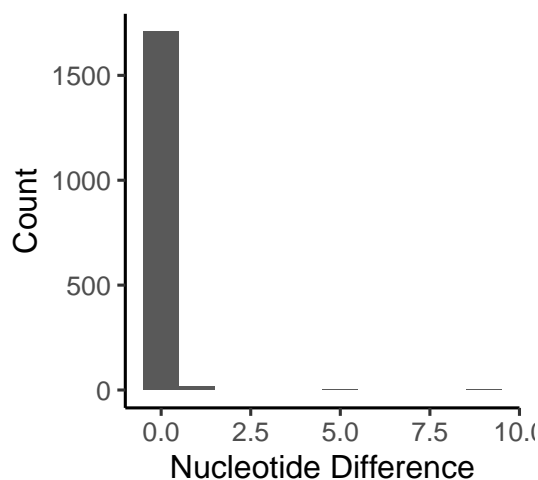
### TRBV20-1\*ap01

3346 sequences assigned  
3298 (98.6%) exact matches, in which:  
3224 unique CDR3  
13 unique J



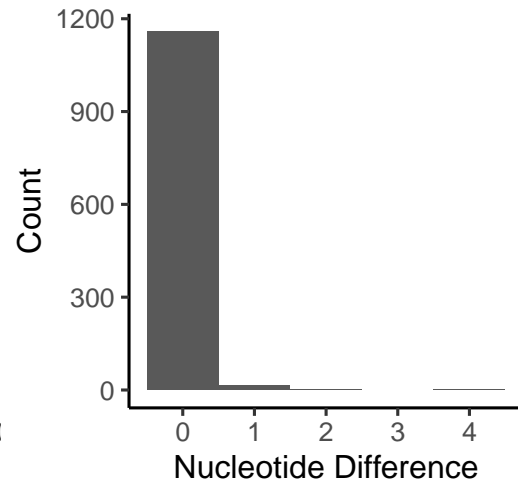
### TRBV10-3\*ap01

1727 sequences assigned  
1708 (98.9%) exact matches, in which:  
1674 unique CDR3  
13 unique J



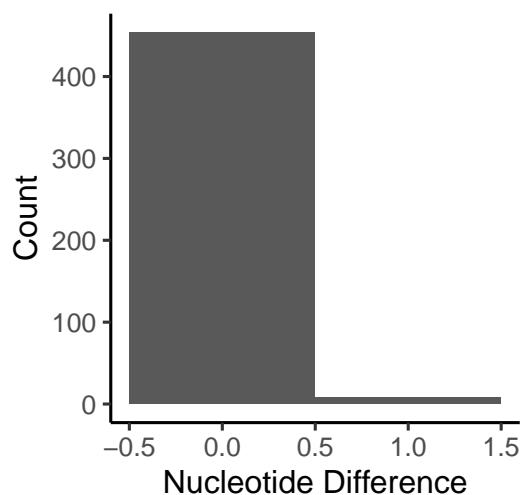
### TRBV14\*ap01

1176 sequences assigned  
1158 (98.5%) exact matches, in which:  
1138 unique CDR3  
13 unique J



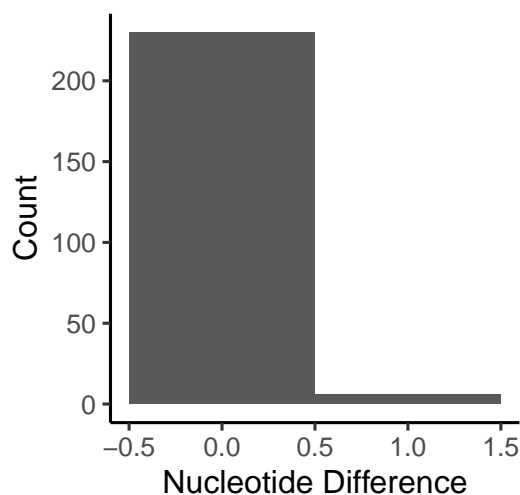
### TRBV20-1\*ap02

462 sequences assigned  
454 (98.3%) exact matches, in which:  
443 unique CDR3  
13 unique J



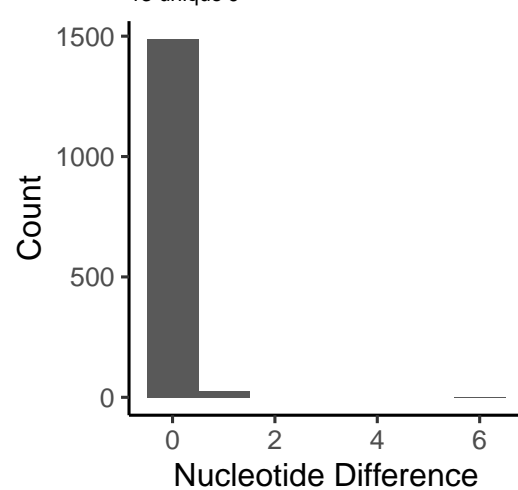
### TRBV1\*ap01

236 sequences assigned  
230 (97.5%) exact matches, in which:  
225 unique CDR3  
12 unique J



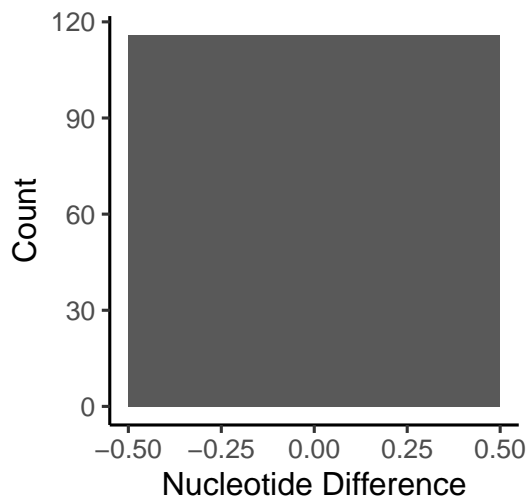
### TRBV15\*ap02

1516 sequences assigned  
1488 (98.2%) exact matches, in which:  
1452 unique CDR3  
13 unique J



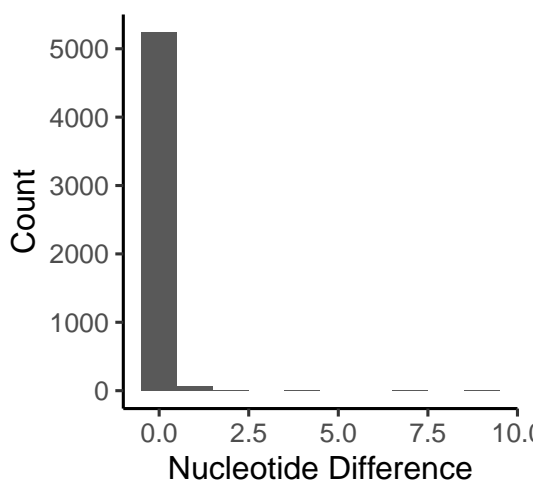
### TRBV16\*ap01

116 sequences assigned  
116 (100%) exact matches, in which:  
115 unique CDR3  
13 unique J



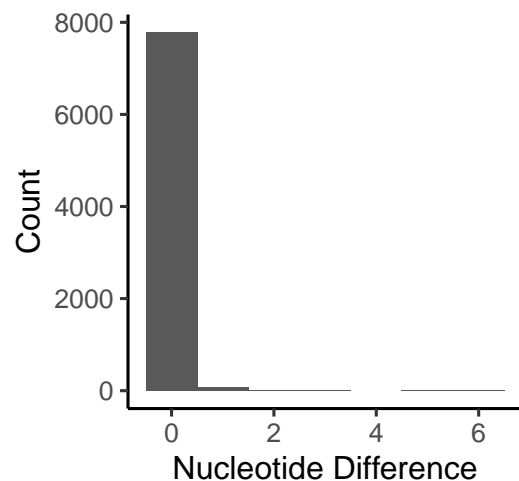
### TRBV19\*ap01

5305 sequences assigned  
5239 (98.8%) exact matches, in which:  
5132 unique CDR3  
13 unique J



### TRBV28\*ap01

7872 sequences assigned  
7781 (98.8%) exact matches, in which:  
7637 unique CDR3  
13 unique J



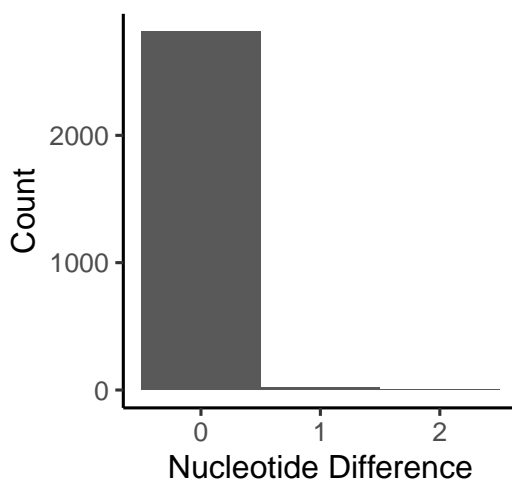
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



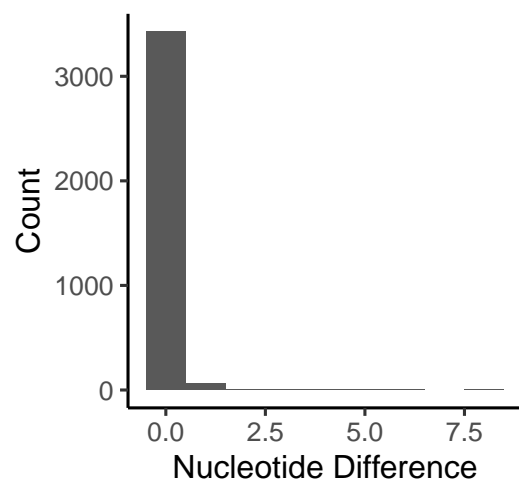
### TRBV2\*ap01

2834 sequences assigned  
2814 (99.3%) exact matches, in which:  
2786 unique CDR3  
13 unique J



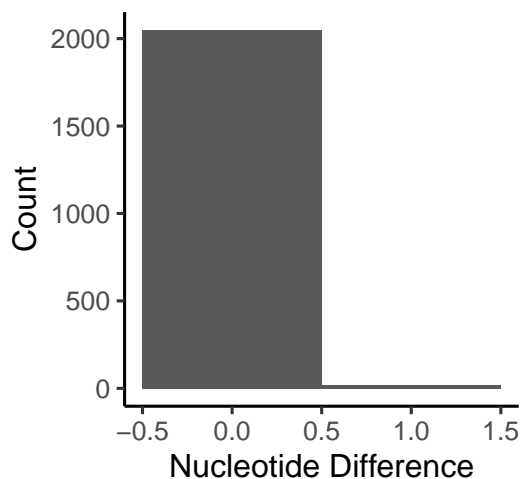
### TRBV30\*ap01

3500 sequences assigned  
3426 (97.9%) exact matches, in which:  
3389 unique CDR3  
13 unique J



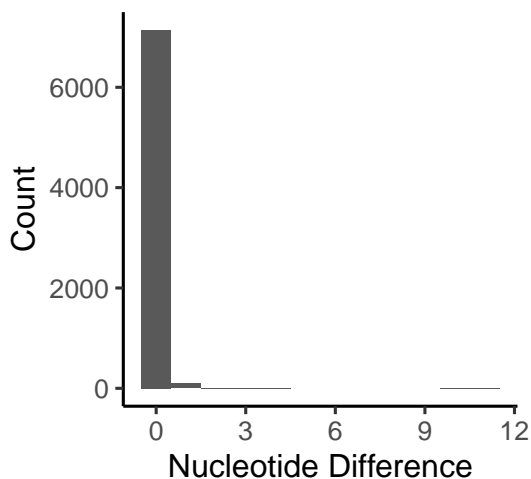
### TRBV18\*ap01

2067 sequences assigned  
2049 (99.1%) exact matches, in which:  
2017 unique CDR3  
13 unique J



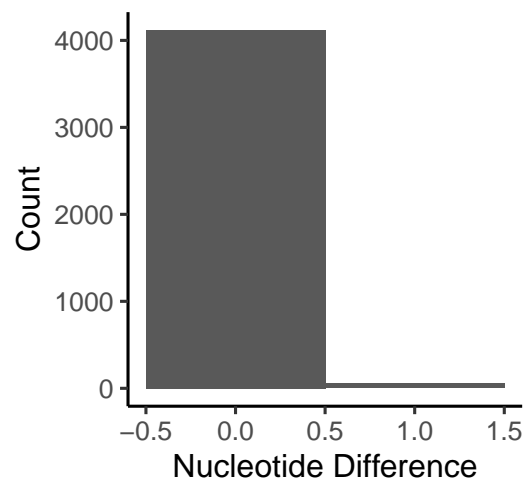
### TRBV27\*ap01

7244 sequences assigned  
7141 (98.6%) exact matches, in which:  
7003 unique CDR3  
13 unique J



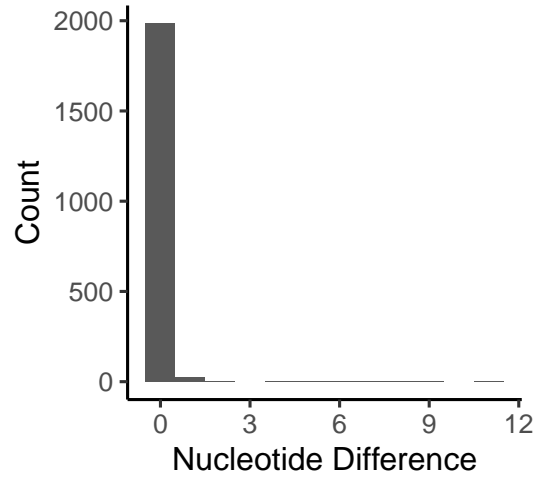
### TRBV9\*ap01

4174 sequences assigned  
4119 (98.7%) exact matches, in which:  
4033 unique CDR3  
13 unique J



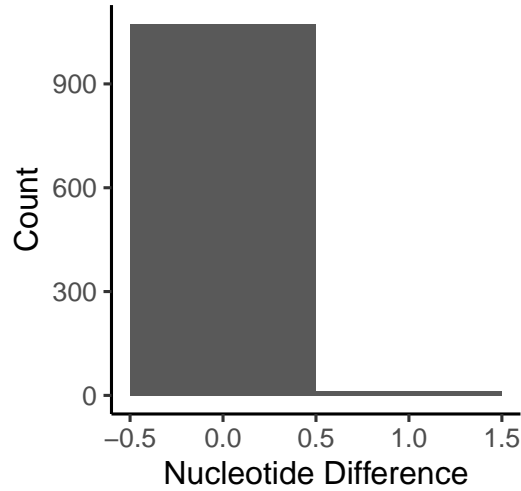
### TRBV21-1\*ap01

2020 sequences assigned  
1985 (98.3%) exact matches, in which:  
1945 unique CDR3  
13 unique J



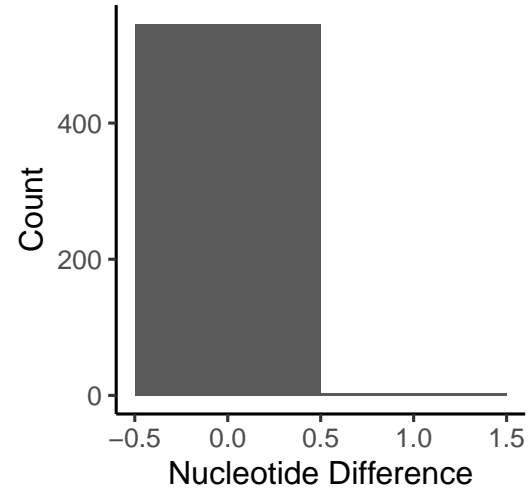
### TRBV11-3\*ap01

1087 sequences assigned  
1074 (98.8%) exact matches, in which:  
1053 unique CDR3  
13 unique J



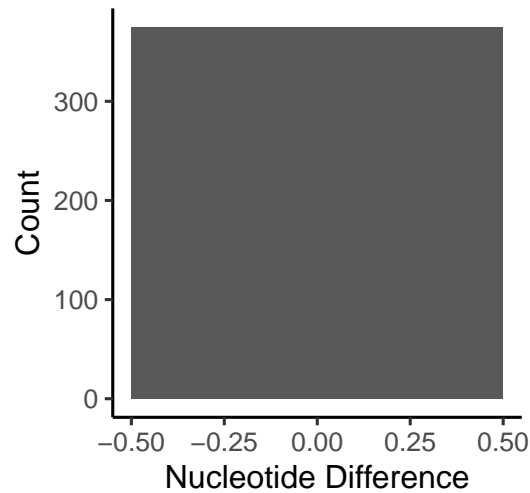
### TRBV12-5\*ap01

549 sequences assigned  
546 (99.5%) exact matches, in which:  
536 unique CDR3  
13 unique J



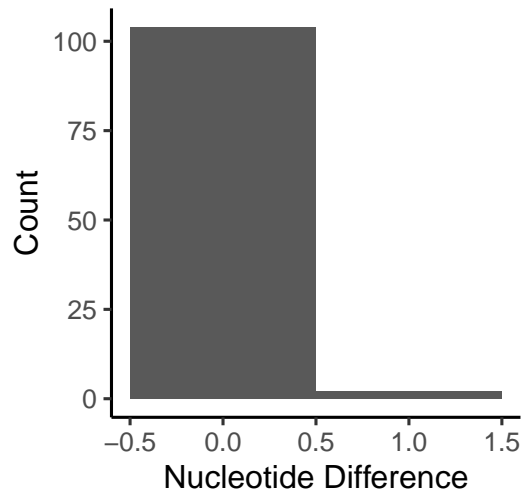
### TRBV11-1\*ap01

375 sequences assigned  
375 (100%) exact matches, in which:  
364 unique CDR3  
13 unique J



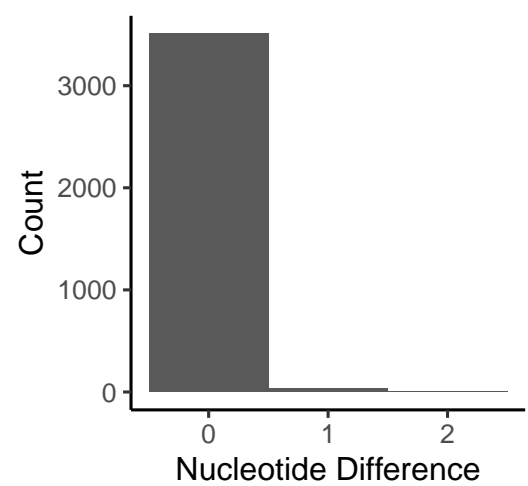
### TRBV12-1\*ap01

106 sequences assigned  
104 (98.1%) exact matches, in which:  
103 unique CDR3  
13 unique J



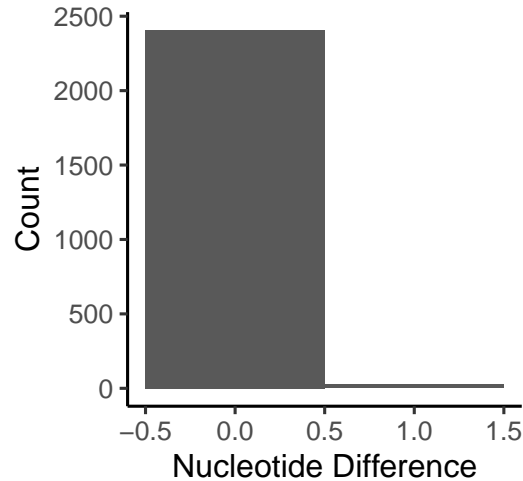
### TRBV12-34\*ap01

3548 sequences assigned  
3509 (98.9%) exact matches, in which:  
3444 unique CDR3  
13 unique J



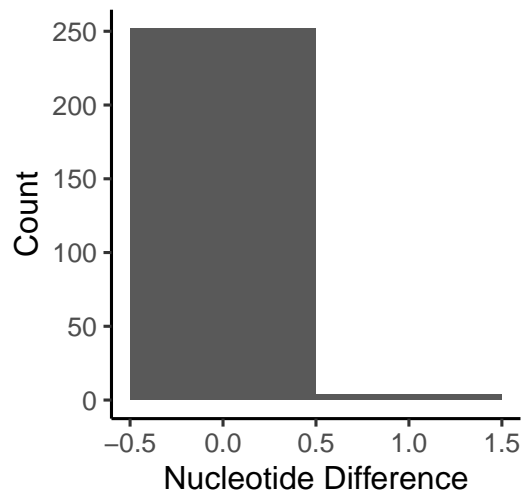
### TRBV11-2\*ap01

2433 sequences assigned  
2407 (98.9%) exact matches, in which:  
2364 unique CDR3  
13 unique J



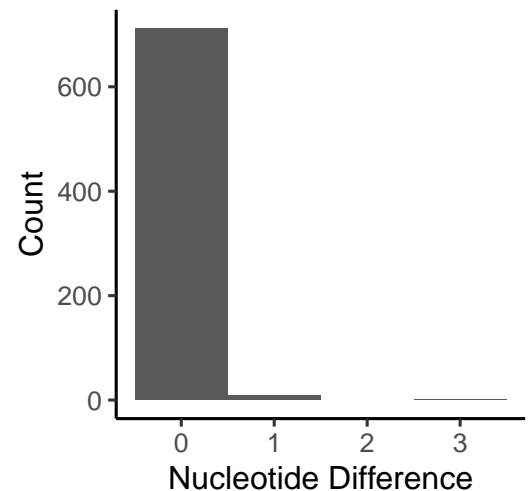
### TRBV12-2\*ap01

256 sequences assigned  
252 (98.4%) exact matches, in which:  
244 unique CDR3  
13 unique J



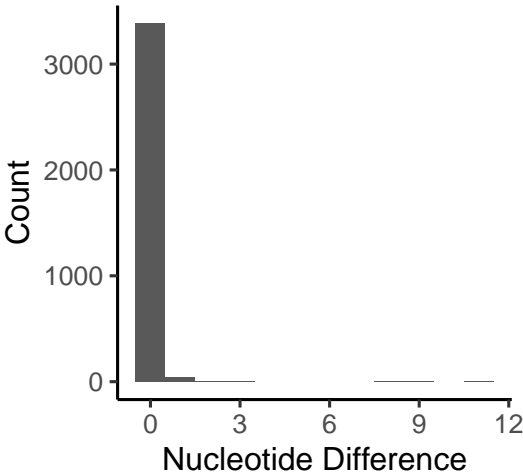
### TRBV23-1\*ap01

722 sequences assigned  
712 (98.6%) exact matches, in which:  
704 unique CDR3  
13 unique J



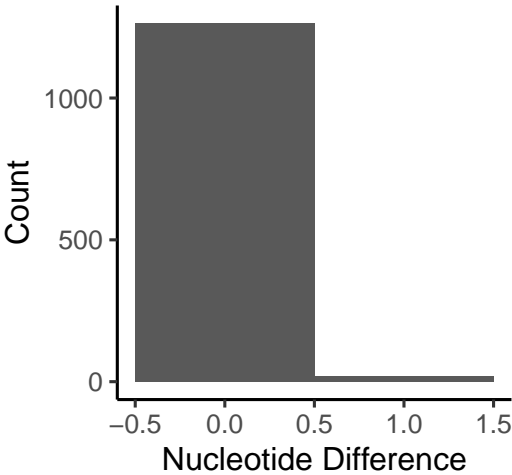
TRBV3-12\*ap01

3431 sequences assigned  
3384 (98.6%) exact matches, in which:  
3330 unique CDR3  
13 unique J



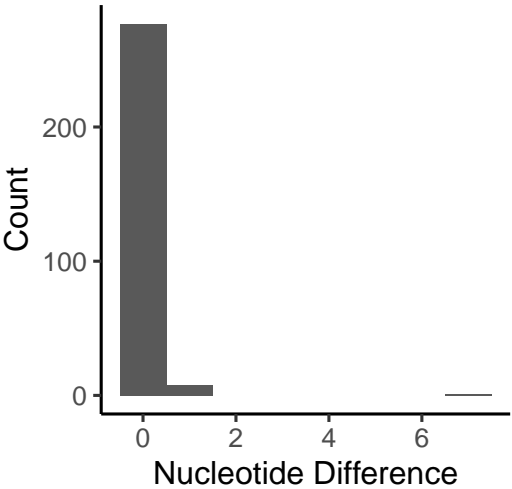
TRBV4-2\*ap01

1281 sequences assigned  
1263 (98.6%) exact matches, in which:  
1240 unique CDR3  
13 unique J



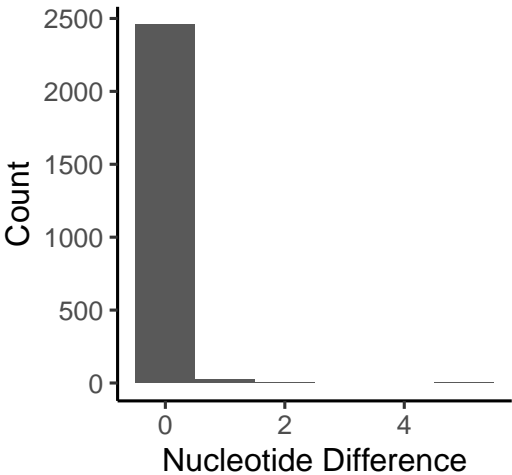
TRBV5-3\*ap01

286 sequences assigned  
277 (96.9%) exact matches, in which:  
271 unique CDR3  
13 unique J



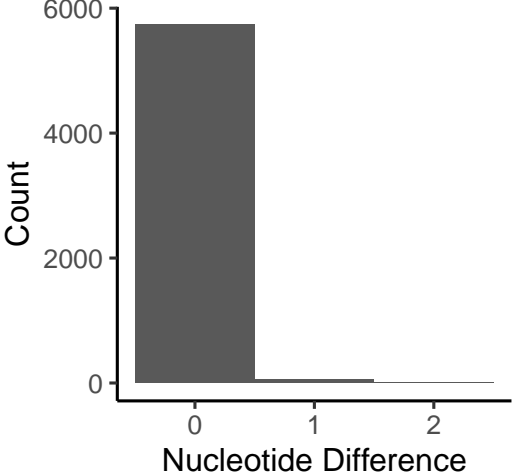
TRBV4-1\*ap01

2483 sequences assigned  
2457 (99%) exact matches, in which:  
2416 unique CDR3  
13 unique J



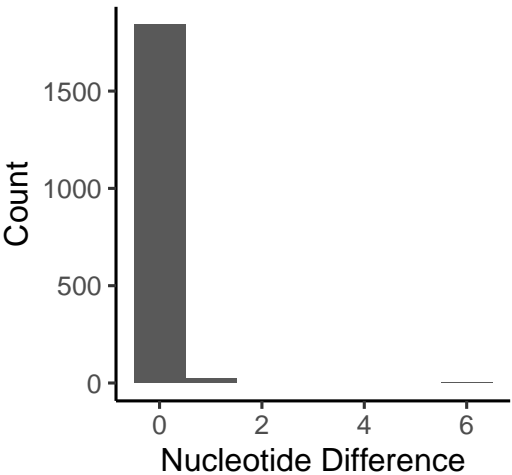
TRBV5-1\*ap01

5801 sequences assigned  
5735 (98.9%) exact matches, in which:  
5613 unique CDR3  
13 unique J



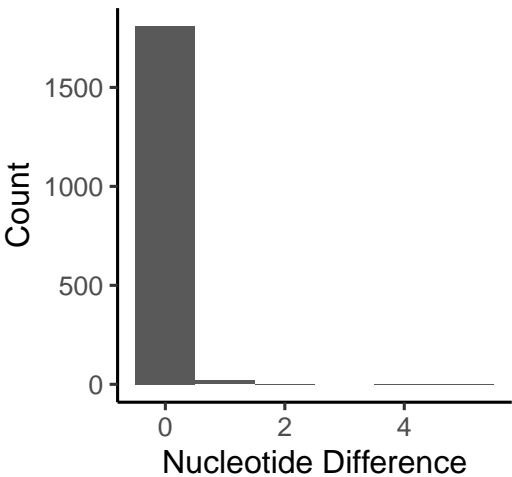
TRBV5-4\*ap01

1865 sequences assigned  
1841 (98.7%) exact matches, in which:  
1805 unique CDR3  
13 unique J



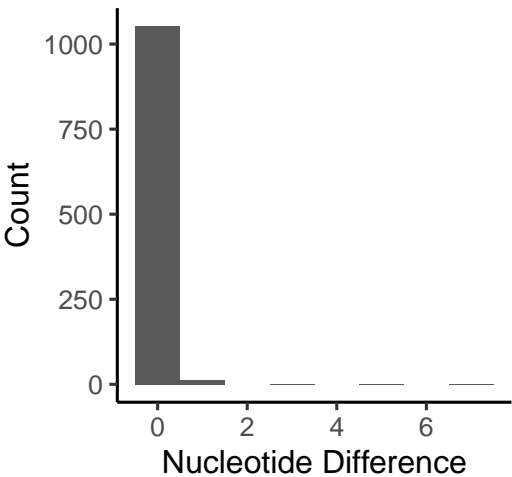
TRBV24-1\*ap01

1836 sequences assigned  
1810 (98.6%) exact matches, in which:  
1796 unique CDR3  
13 unique J



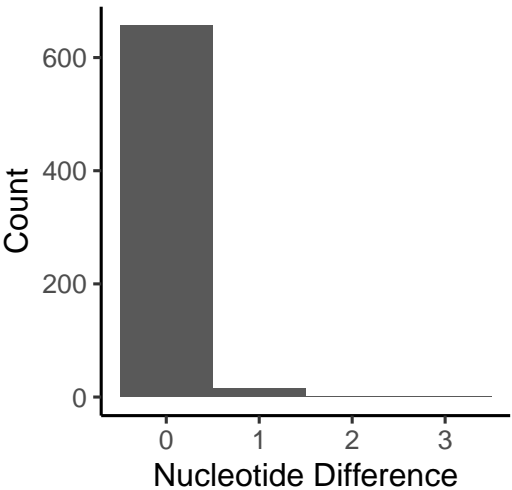
TRBV25-1\*ap01

1069 sequences assigned  
1053 (98.5%) exact matches, in which:  
1048 unique CDR3  
13 unique J



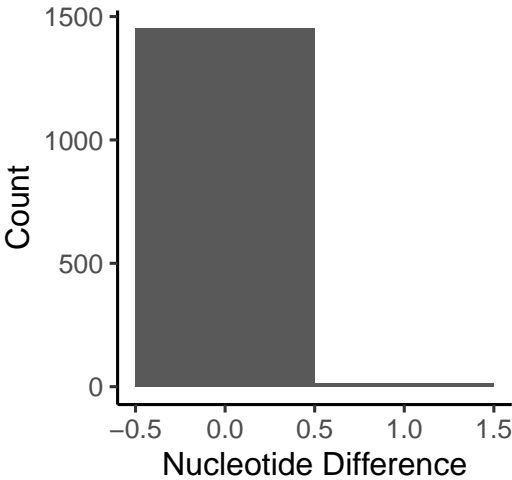
TRBV5-5\*ap01

674 sequences assigned  
657 (97.5%) exact matches, in which:  
642 unique CDR3  
13 unique J



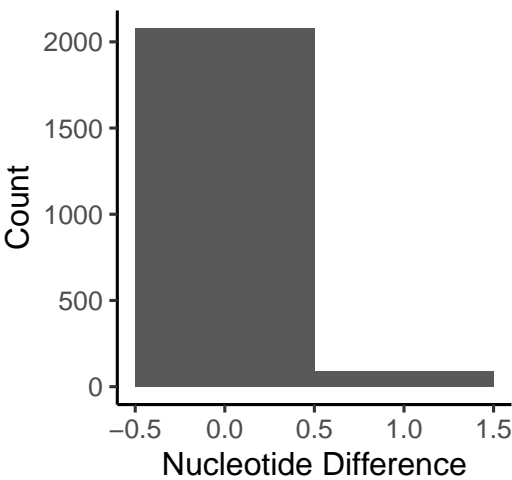
TRBV5-6\*ap01

1467 sequences assigned  
1452 (99%) exact matches, in which:  
1426 unique CDR3  
13 unique J



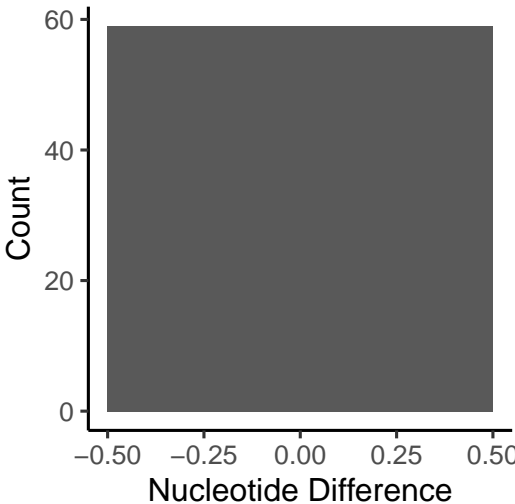
TRBV6-1\*ap01

2169 sequences assigned  
2078 (95.8%) exact matches, in which:  
2037 unique CDR3  
13 unique J



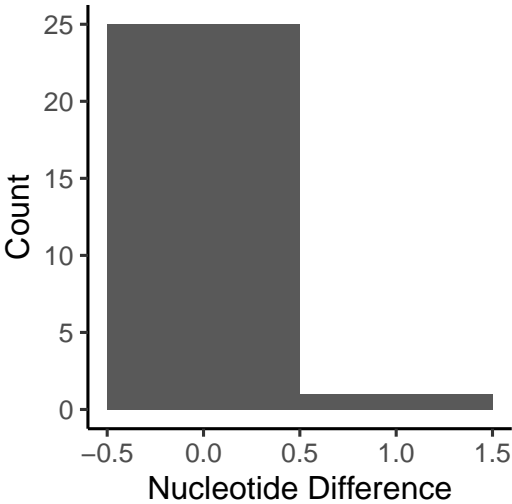
TRBV6-8\*ap01

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



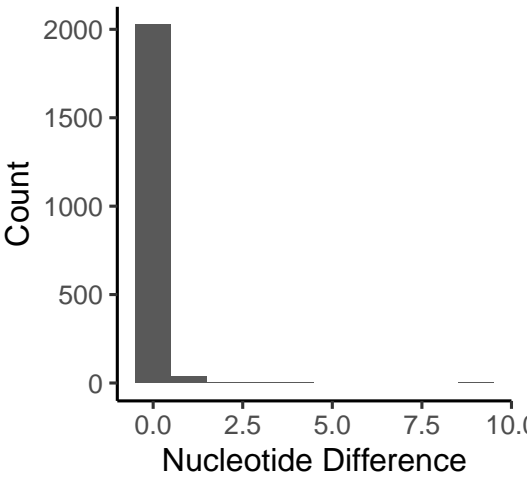
TRBV5-7\*ap01

26 sequences assigned  
25 (96.2%) exact matches, in which:  
25 unique CDR3  
10 unique J



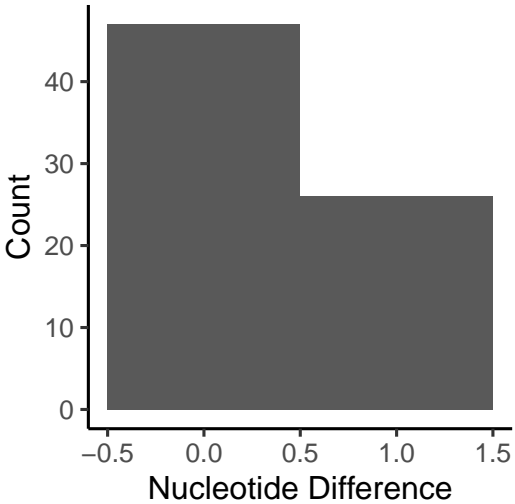
TRBV6-4\*ap01

2070 sequences assigned  
2026 (97.9%) exact matches, in which:  
2004 unique CDR3  
13 unique J



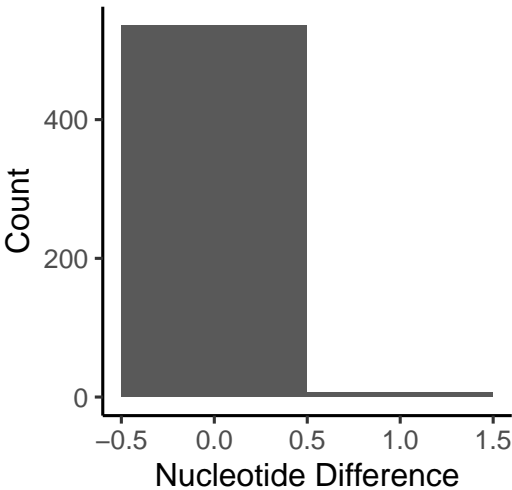
TRBV6-9\*ap01

73 sequences assigned  
47 (64.4%) exact matches, in which:  
47 unique CDR3  
12 unique J



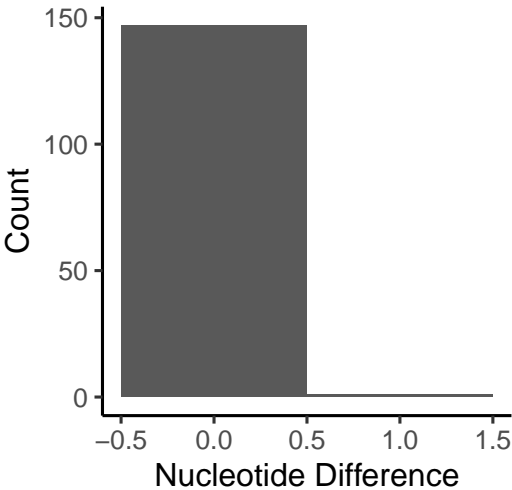
TRBV5-8\*ap01

542 sequences assigned  
536 (98.9%) exact matches, in which:  
532 unique CDR3  
13 unique J



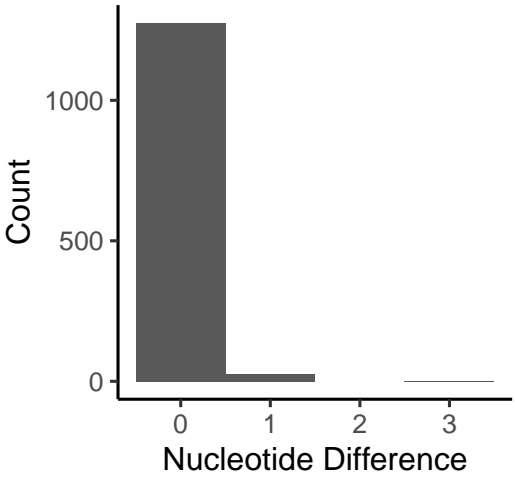
TRBV6-7\*ap01

148 sequences assigned  
147 (99.3%) exact matches, in which:  
144 unique CDR3  
13 unique J



TRBV6-23\*ap01

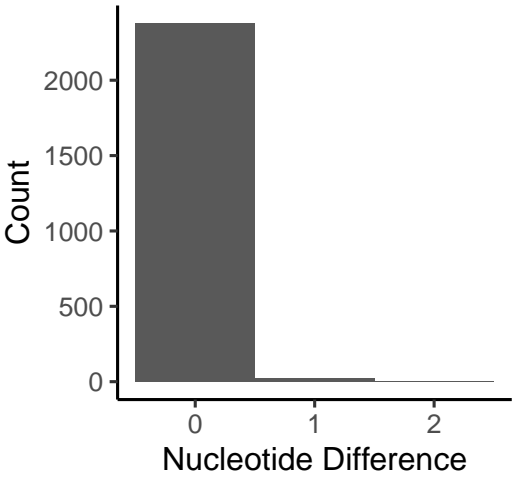
1301 sequences assigned  
1275 (98%) exact matches, in which:  
1261 unique CDR3  
13 unique J





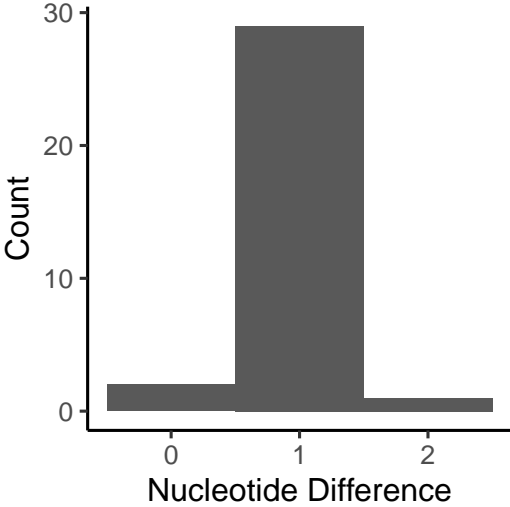
TRBV6-56\*ap01

2405 sequences assigned  
2377 (98.8%) exact matches, in which:  
2346 unique CDR3  
13 unique J



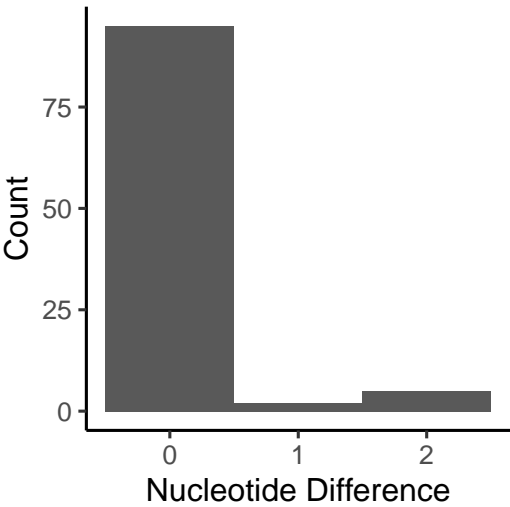
TRBV7-1\*ap01\_T296C\_C

32 sequences assigned  
2 (6.2%) exact matches, in which:  
2 unique CDR3  
1 unique J



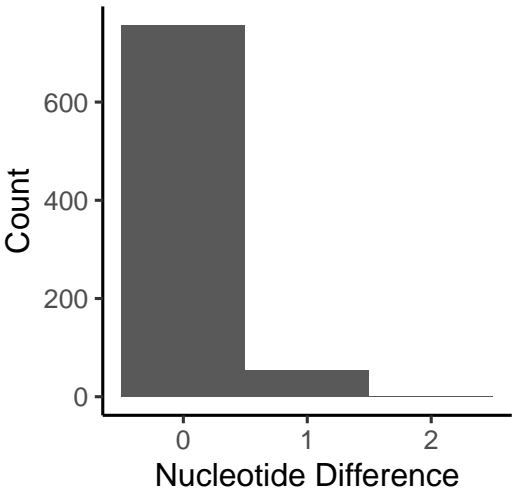
TRBV7-4\*ap01

102 sequences assigned  
95 (93.1%) exact matches, in which:  
92 unique CDR3  
13 unique J



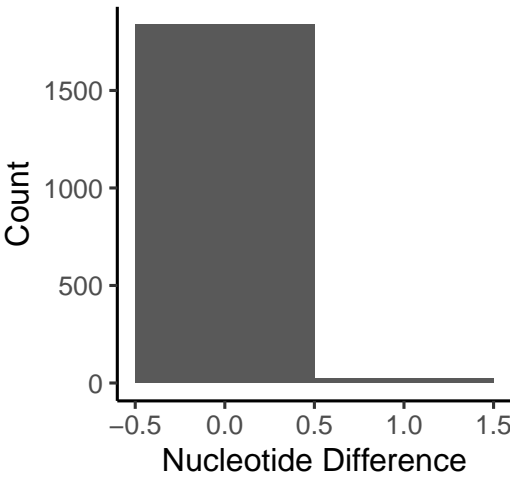
TRBV6-56\*ap02

812 sequences assigned  
757 (93.2%) exact matches, in which:  
751 unique CDR3  
13 unique J



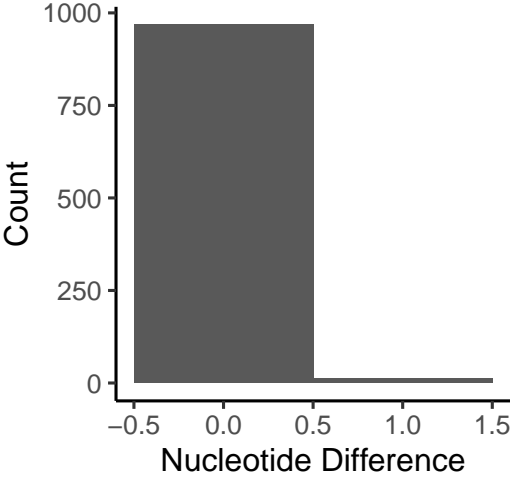
TRBV7-2\*ap01

1859 sequences assigned  
1837 (98.8%) exact matches, in which:  
1806 unique CDR3  
13 unique J



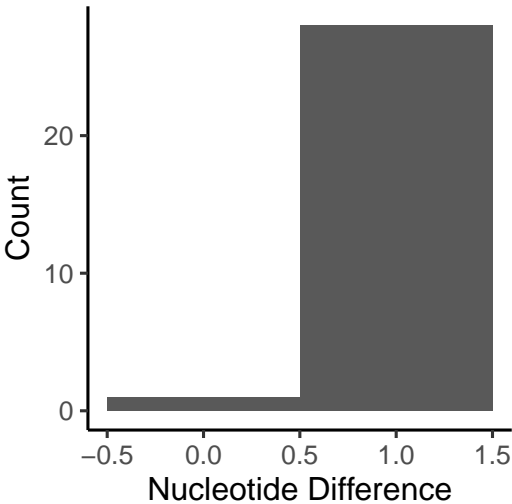
TRBV7-6\*ap01

981 sequences assigned  
968 (98.7%) exact matches, in which:  
943 unique CDR3  
13 unique J



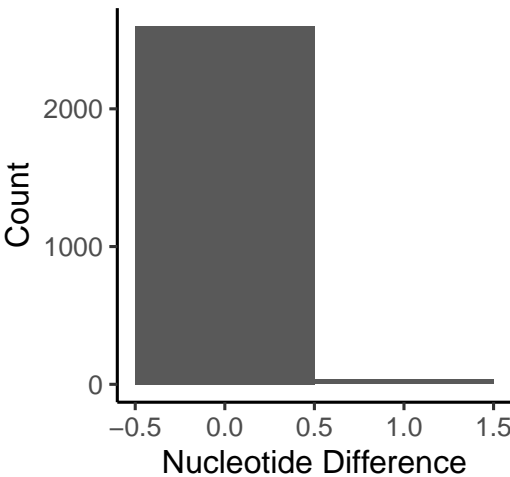
TRBV7-1\*ap01\_T296C

29 sequences assigned  
1 (3.4%) exact matches, in which:  
1 unique CDR3  
1 unique J



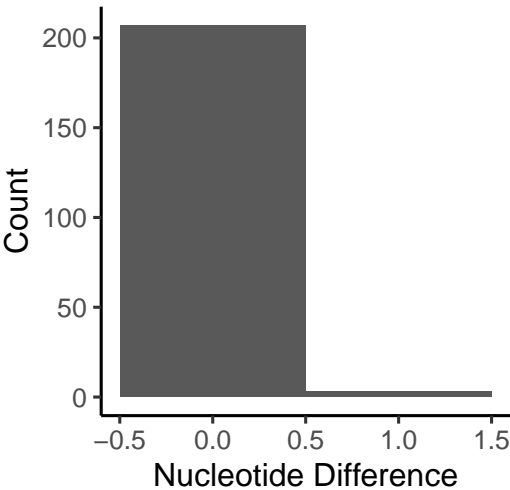
TRBV7-3\*ap01

2635 sequences assigned  
2601 (98.7%) exact matches, in which:  
2545 unique CDR3  
13 unique J



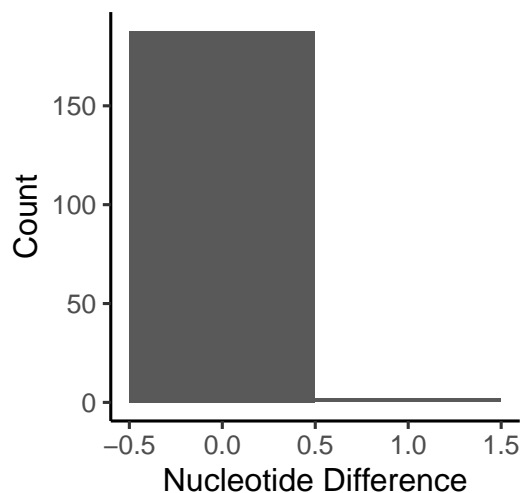
TRBV7-7\*ap01

210 sequences assigned  
207 (98.6%) exact matches, in which:  
202 unique CDR3  
13 unique J



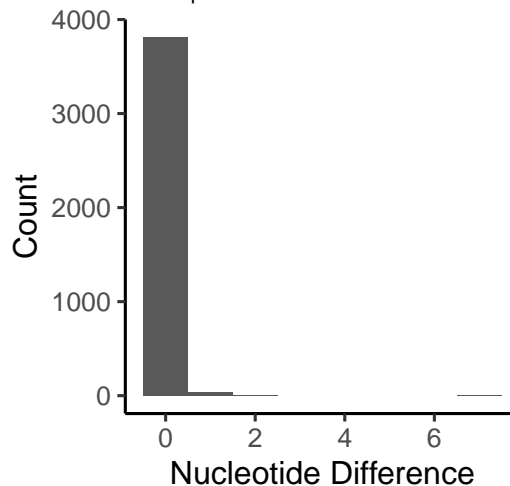
### TRBV7-7\*ap01\_C315T

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



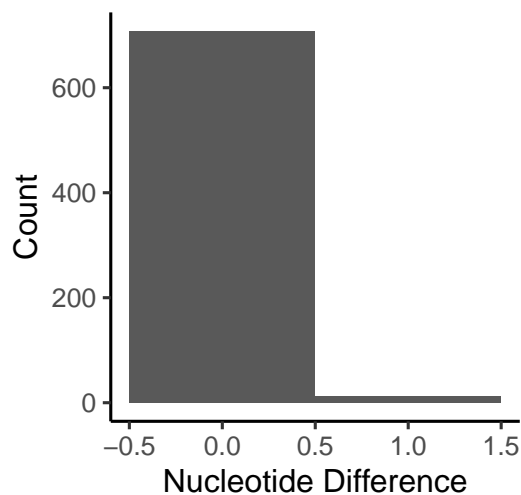
### TRBV7-9\*ap01

3851 sequences assigned  
3810 (98.9%) exact matches, in which:  
3739 unique CDR3  
13 unique J



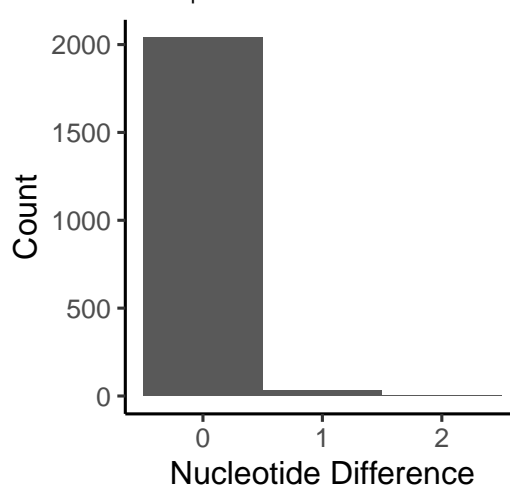
### TRBV7-8\*ap01

720 sequences assigned  
708 (98.3%) exact matches, in which:  
696 unique CDR3  
13 unique J



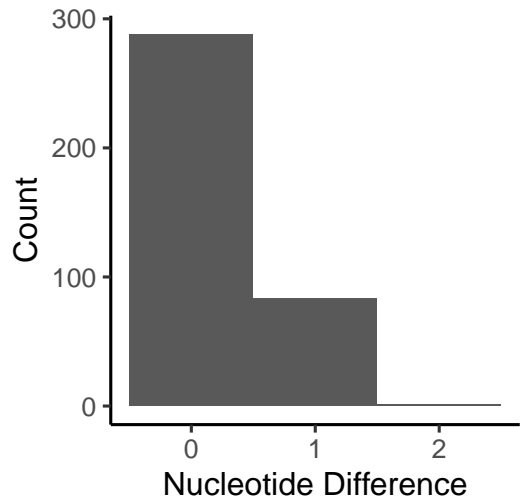
### TRBV29-1\*ap01

2073 sequences assigned  
2039 (98.4%) exact matches, in which:  
2016 unique CDR3  
13 unique J



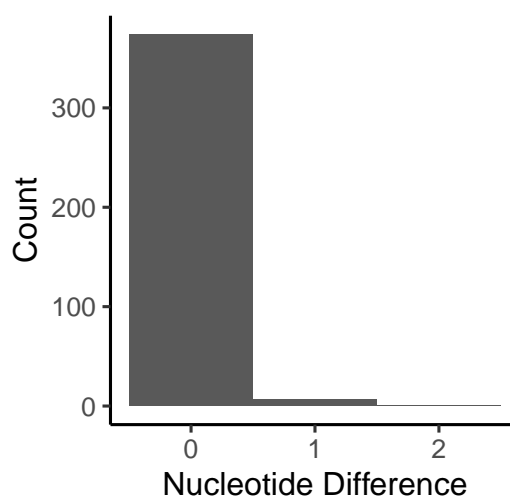
### TRBV7-8\*ap03

372 sequences assigned  
288 (77.4%) exact matches, in which:  
284 unique CDR3  
13 unique J

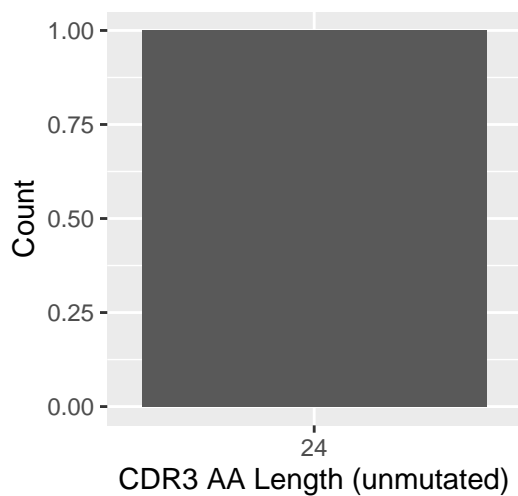


### TRBV29-1\*ap02

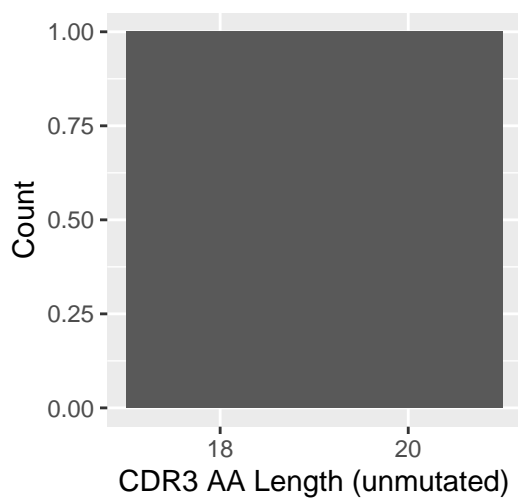
382 sequences assigned  
374 (97.9%) exact matches, in which:  
368 unique CDR3  
13 unique J



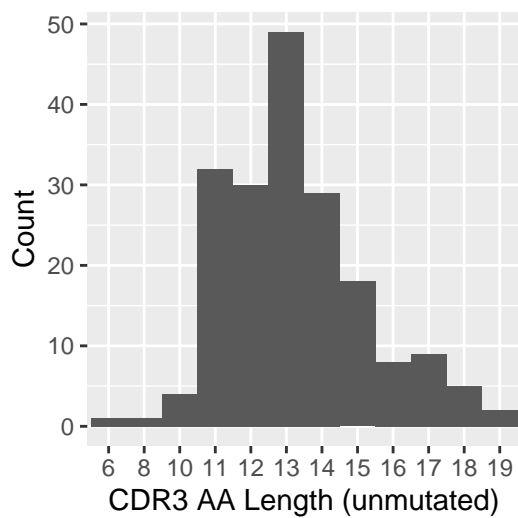
TRBV7-1\*ap01\_T296C



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-7\*ap01\_C315T





[illegible]