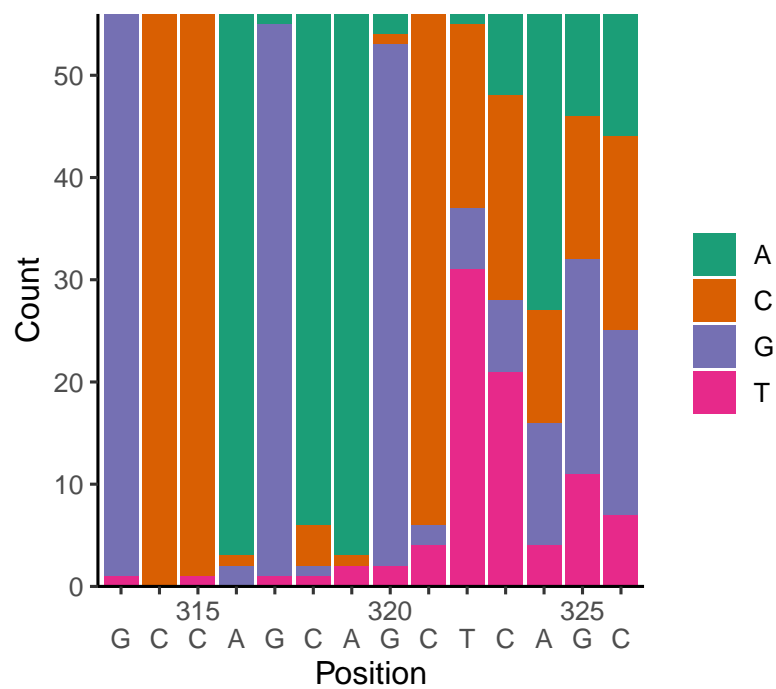
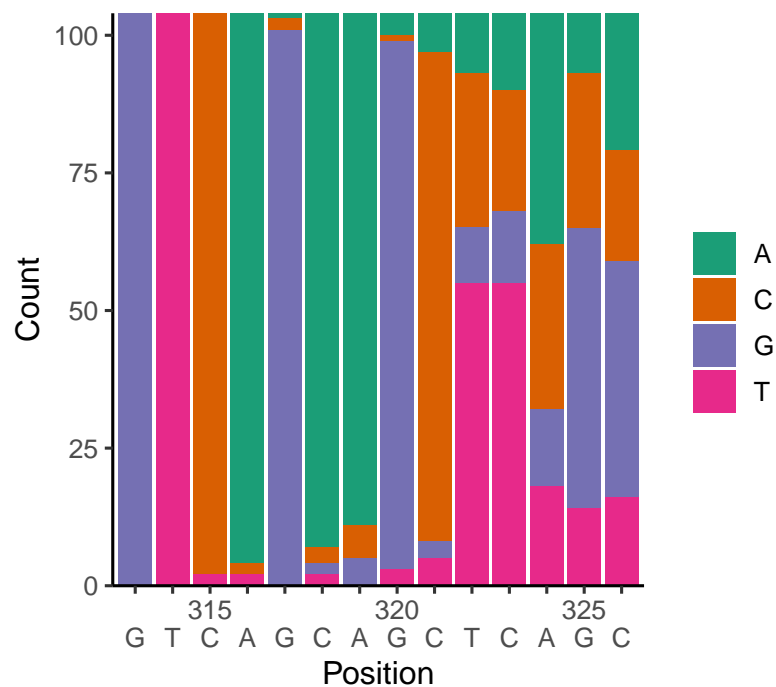


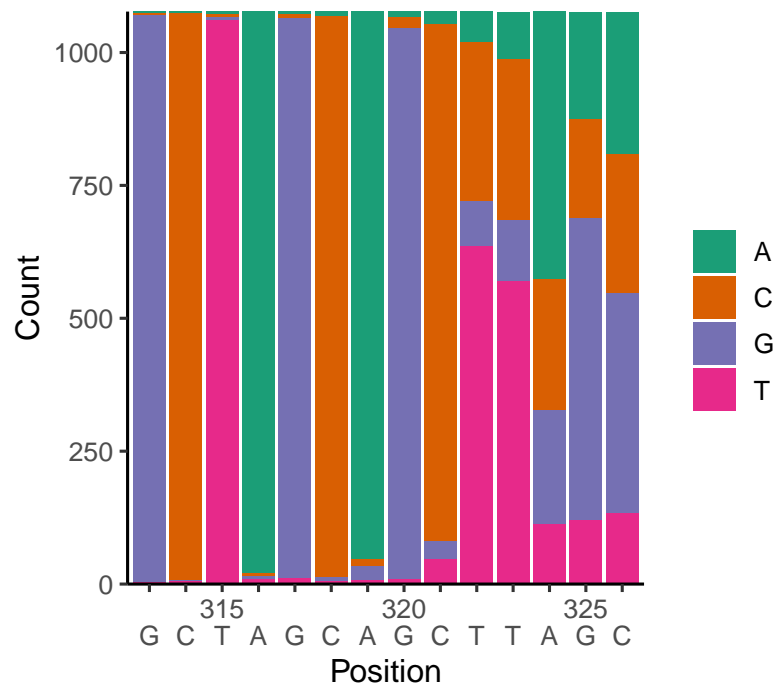
Gene TRBV7-1\*ap01\_G291C\_T296C



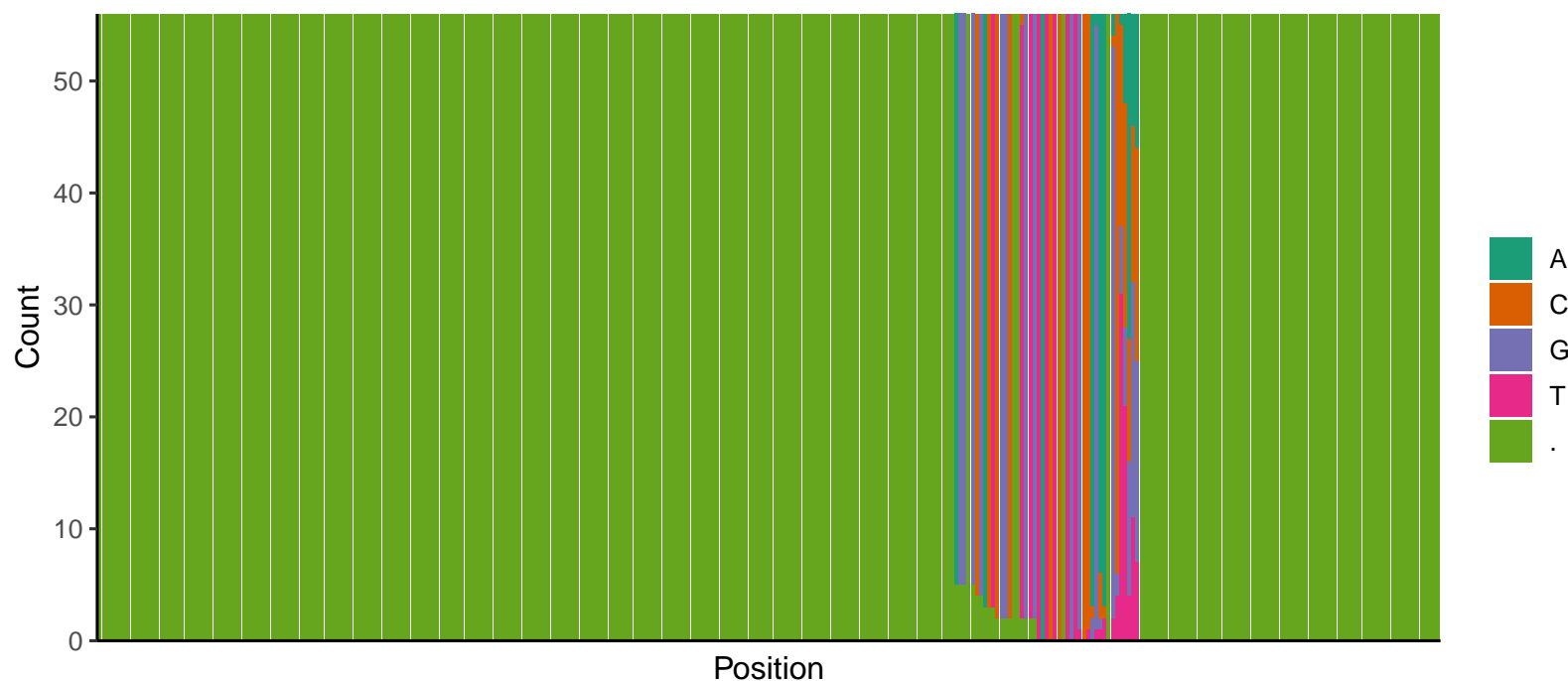
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-7\*ap01\_C315T



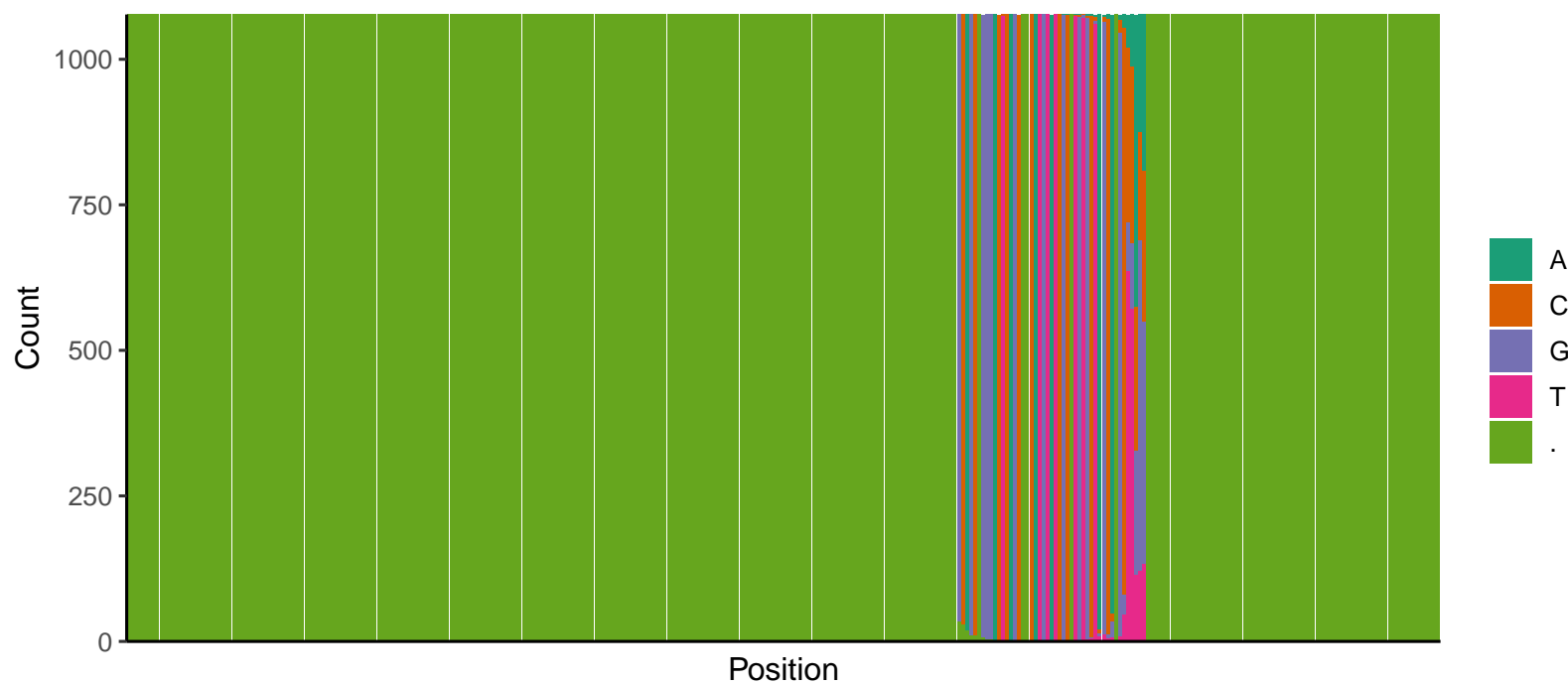
Gene TRBV7-1\*ap01\_G291C\_T296C



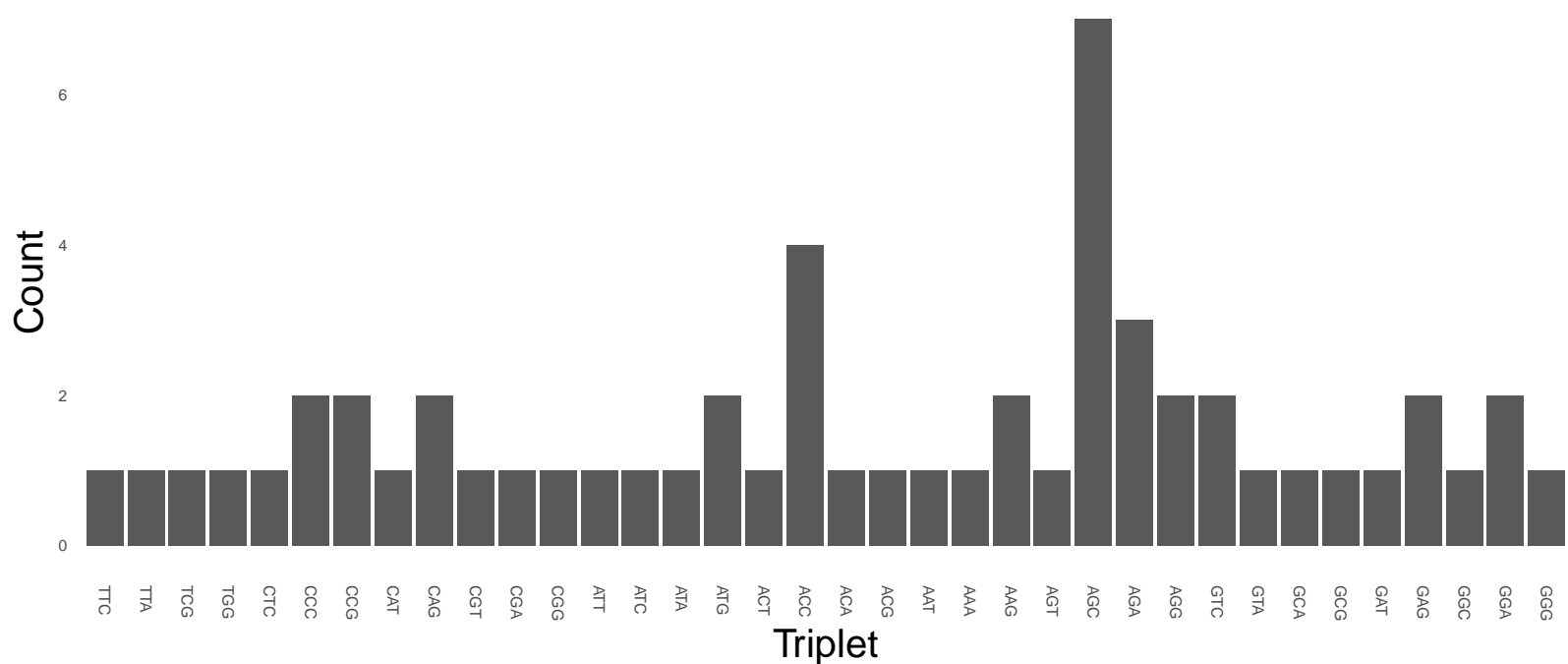
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



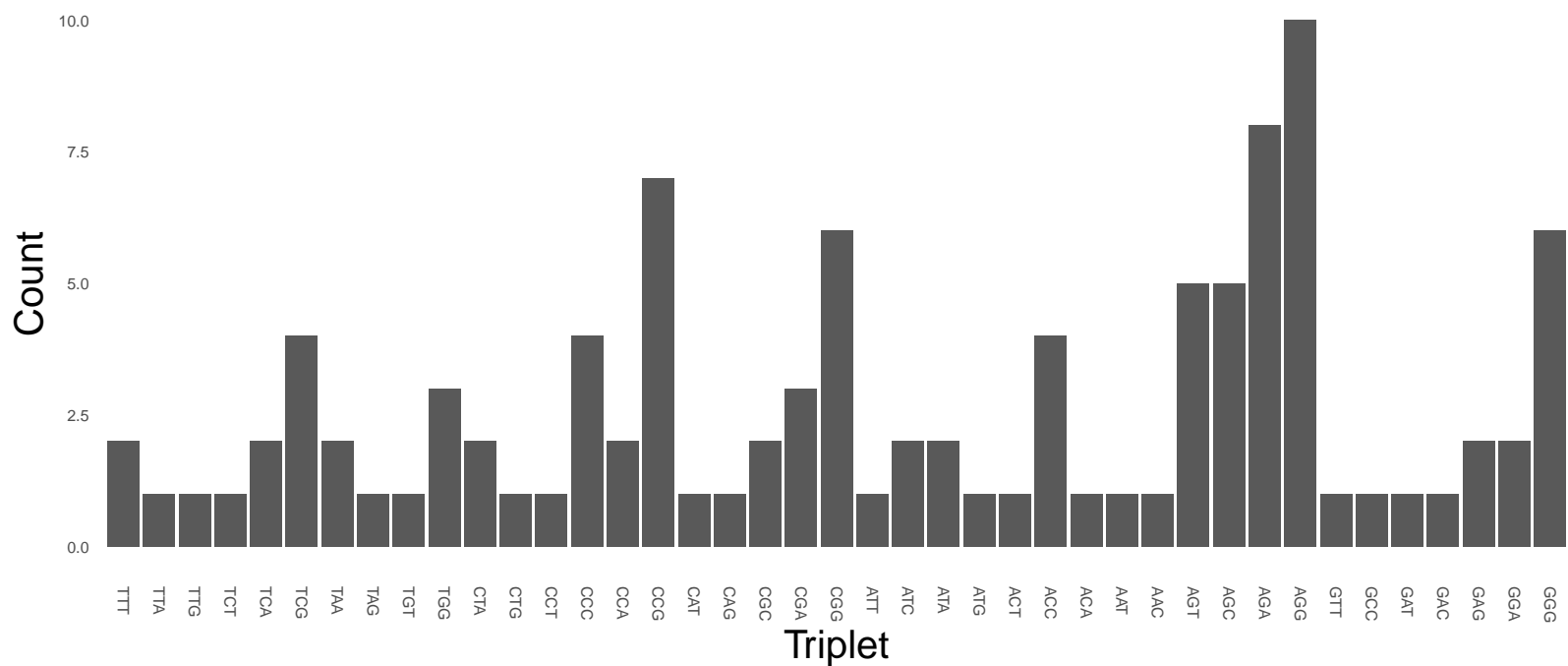
Gene TRBV7-7\*ap01\_C315T



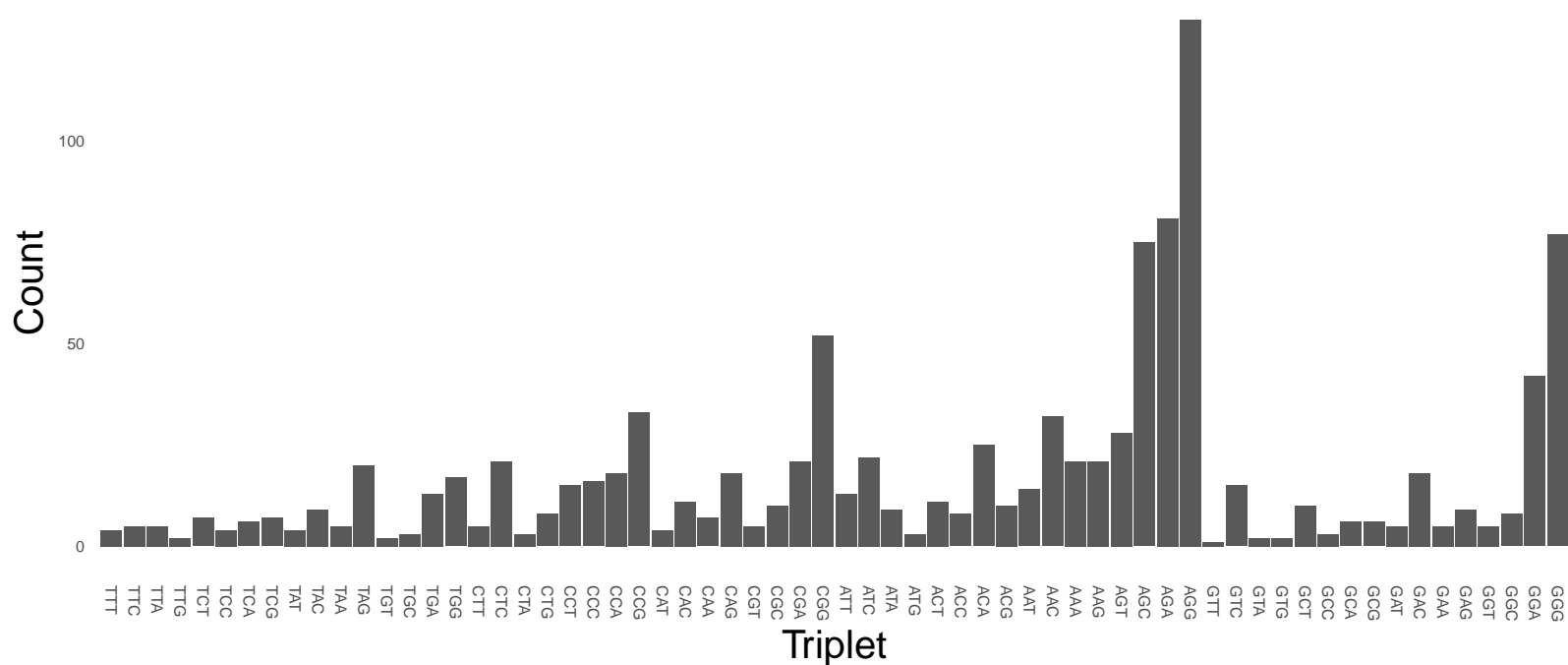
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



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

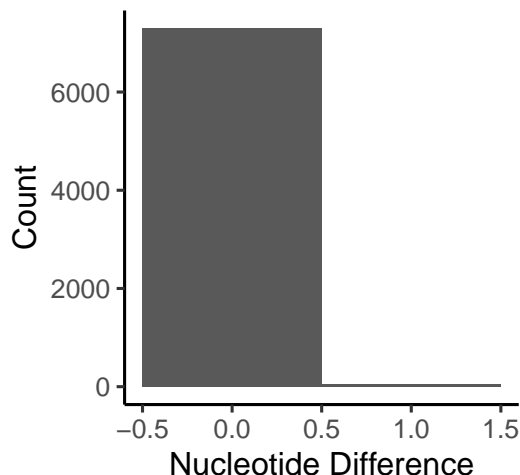


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



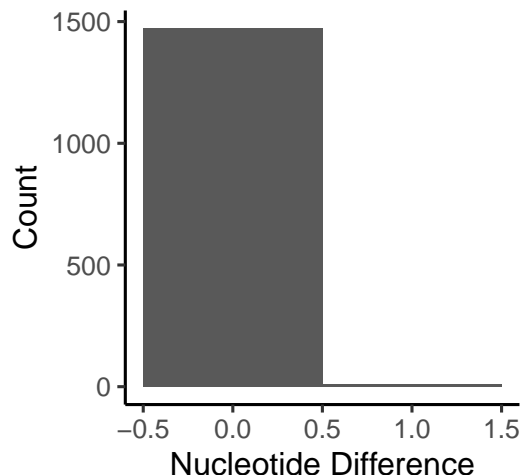
### TRBV20-1\*ap01

7347 sequences assigned  
7296 (99.3%) exact matches, in which:  
7248 unique CDR3  
13 unique J



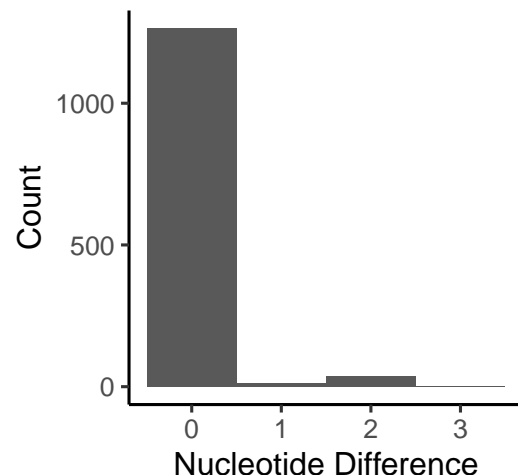
### TRBV10-2\*ap01

1483 sequences assigned  
1472 (99.3%) exact matches, in which:  
1457 unique CDR3  
13 unique J



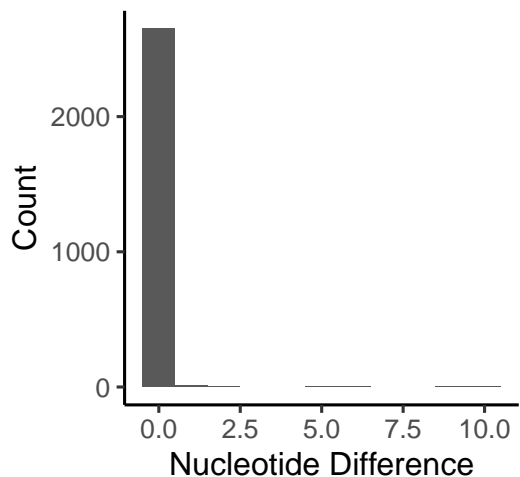
### TRBV13\*ap01

1314 sequences assigned  
1264 (96.2%) exact matches, in which:  
1240 unique CDR3  
13 unique J



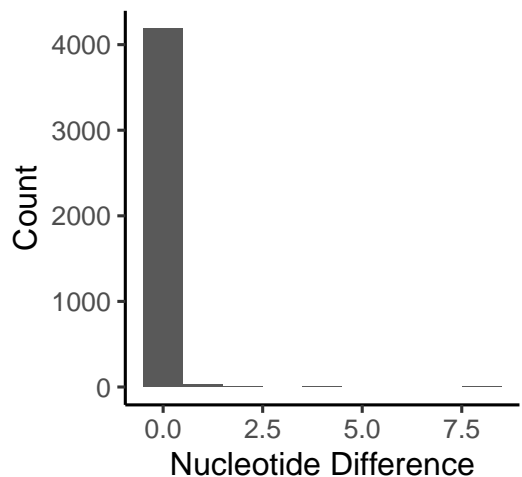
### TRBV10-1\*ap01

2665 sequences assigned  
2650 (99.4%) exact matches, in which:  
2624 unique CDR3  
13 unique J



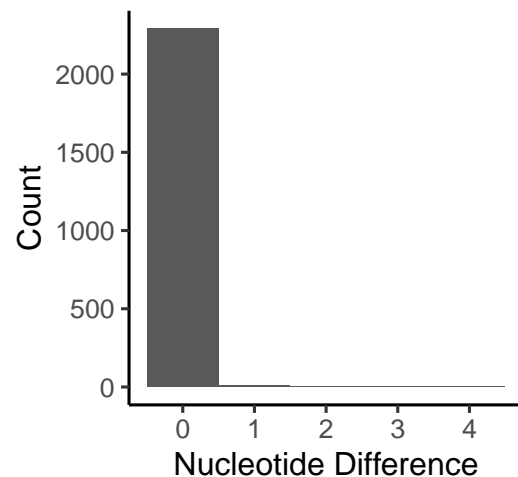
### TRBV10-3\*ap01

4224 sequences assigned  
4186 (99.1%) exact matches, in which:  
4159 unique CDR3  
13 unique J



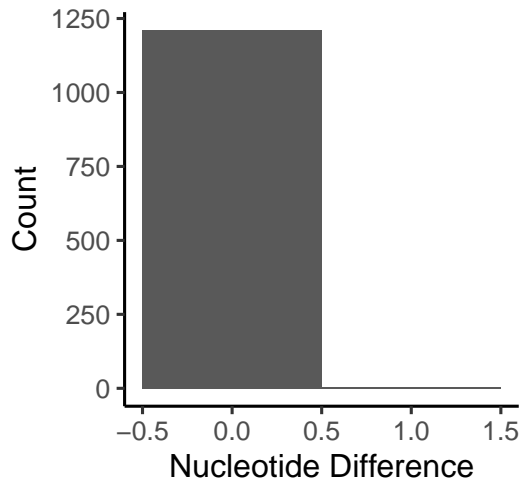
### TRBV14\*ap01

2305 sequences assigned  
2290 (99.3%) exact matches, in which:  
2279 unique CDR3  
13 unique J



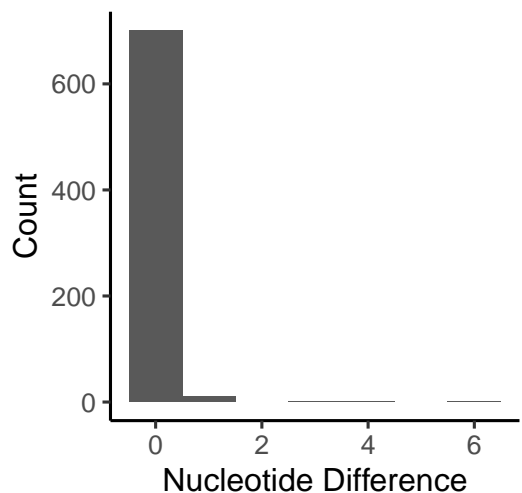
### TRBV20-1\*ap02

1216 sequences assigned  
1211 (99.6%) exact matches, in which:  
1202 unique CDR3  
13 unique J



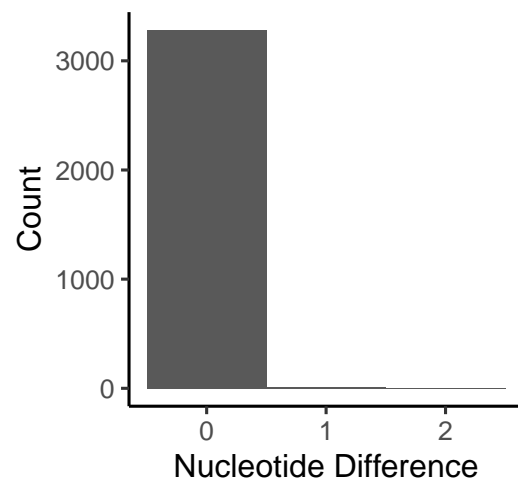
### TRBV1\*ap01

714 sequences assigned  
701 (98.2%) exact matches, in which:  
691 unique CDR3  
13 unique J



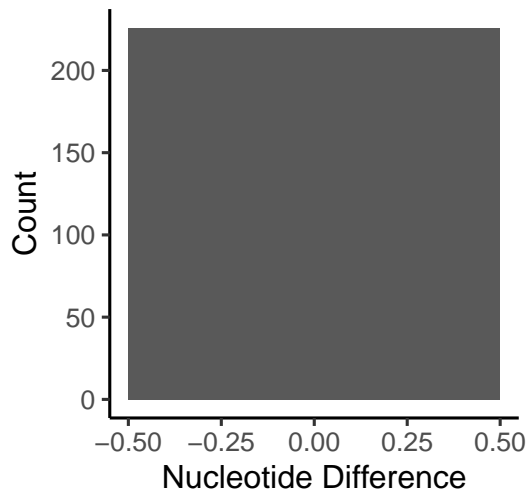
### TRBV15\*ap02

3298 sequences assigned  
3282 (99.5%) exact matches, in which:  
3239 unique CDR3  
13 unique J



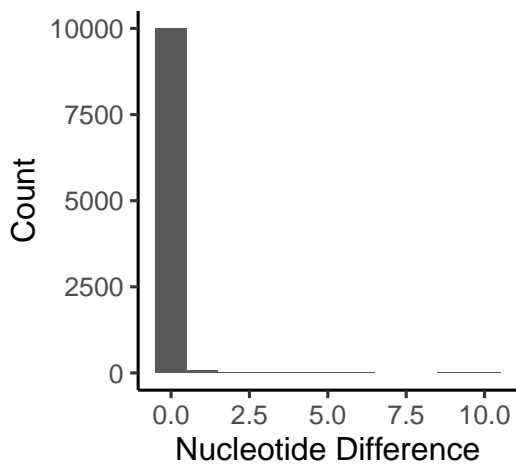
### TRBV16\*ap01

226 sequences assigned  
226 (100%) exact matches, in which:  
223 unique CDR3  
13 unique J



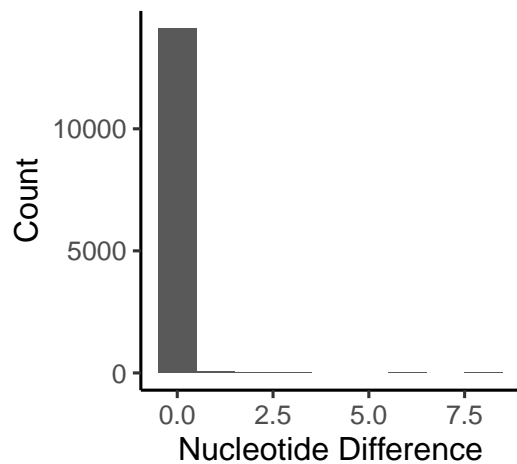
### TRBV19\*ap01

10098 sequences assigned  
10009 (99.1%) exact matches, in which:  
9957 unique CDR3  
13 unique J



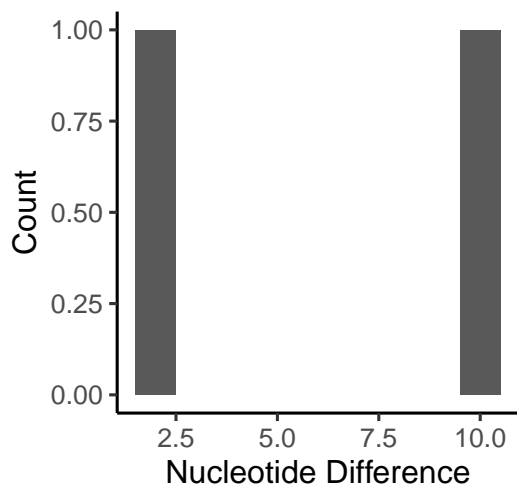
### TRBV28\*ap01

14208 sequences assigned  
14122 (99.4%) exact matches, in which:  
14024 unique CDR3  
13 unique J



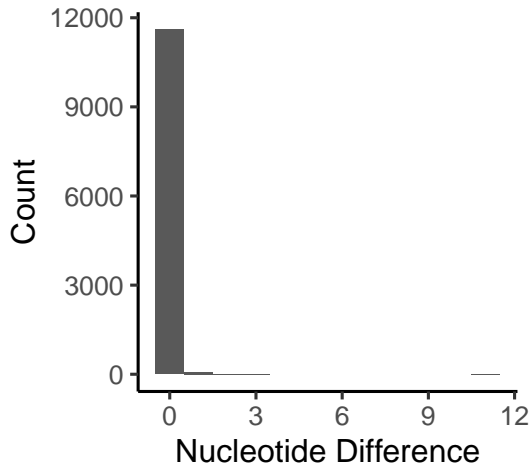
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



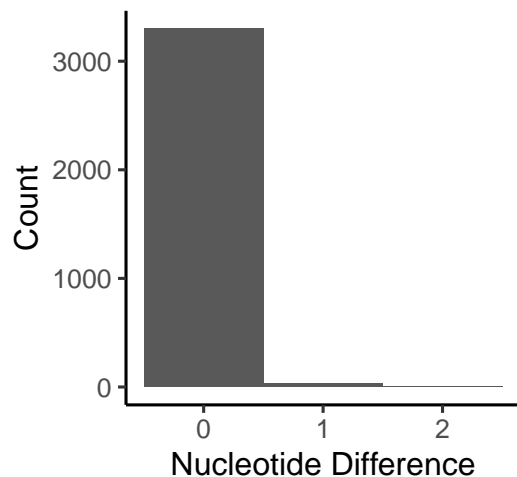
### TRBV2\*ap01

11686 sequences assigned  
11605 (99.3%) exact matches, in which:  
11503 unique CDR3  
13 unique J



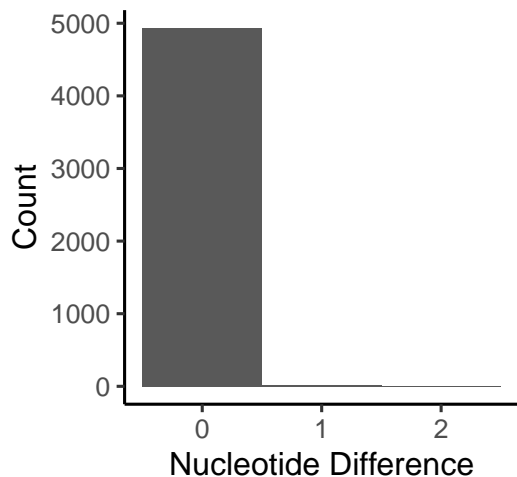
### TRBV30\*ap01

3332 sequences assigned  
3299 (99%) exact matches, in which:  
3230 unique CDR3  
13 unique J



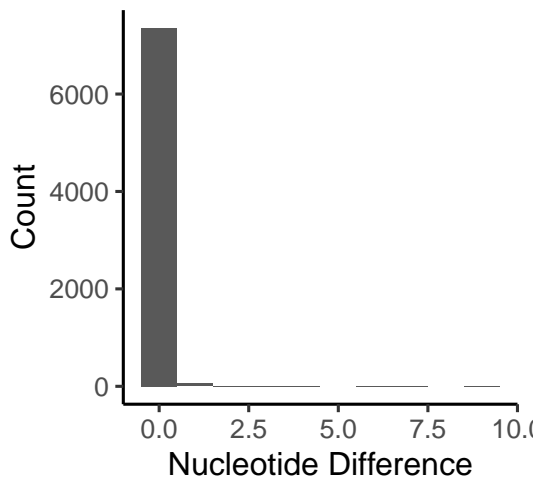
### TRBV18\*ap01

4954 sequences assigned  
4934 (99.6%) exact matches, in which:  
4919 unique CDR3  
13 unique J



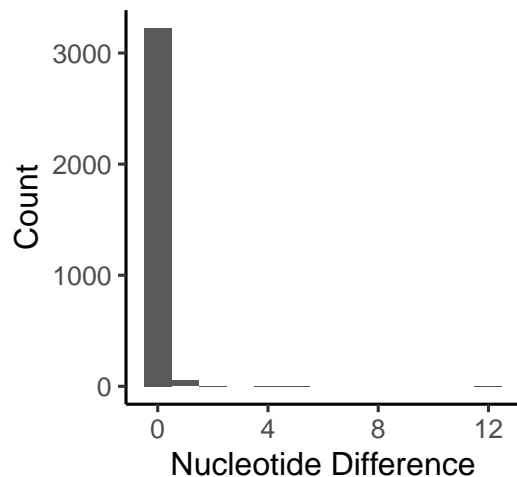
### TRBV27\*ap01

7425 sequences assigned  
7355 (99.1%) exact matches, in which:  
7289 unique CDR3  
13 unique J



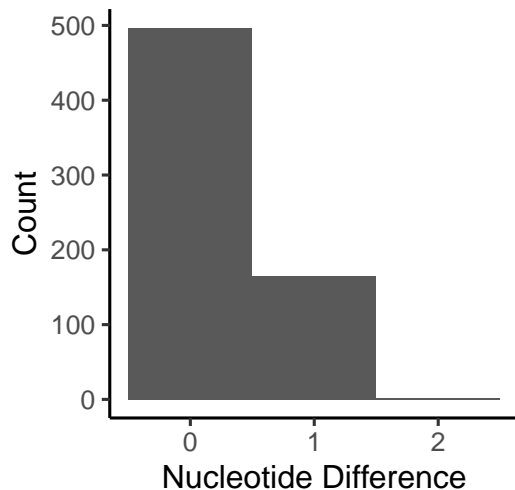
### TRBV30\*ap02

3283 sequences assigned  
3225 (98.2%) exact matches, in which:  
3178 unique CDR3  
13 unique J



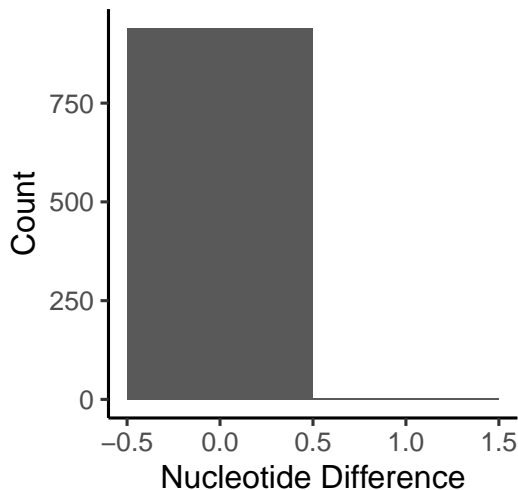
### TRBV30\*ap03

664 sequences assigned  
497 (74.8%) exact matches, in which:  
491 unique CDR3  
13 unique J



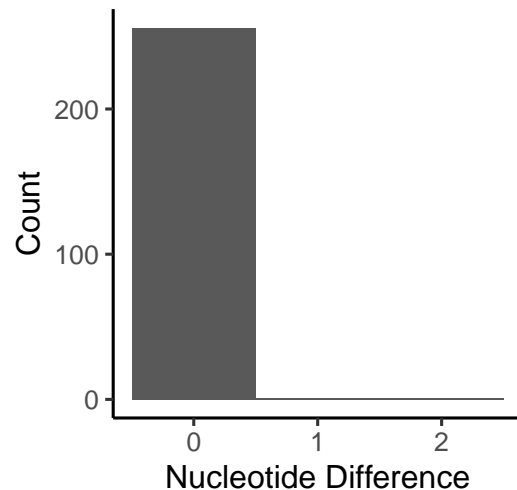
### TRBV11-1\*ap01

944 sequences assigned  
941 (99.7%) exact matches, in which:  
935 unique CDR3  
13 unique J



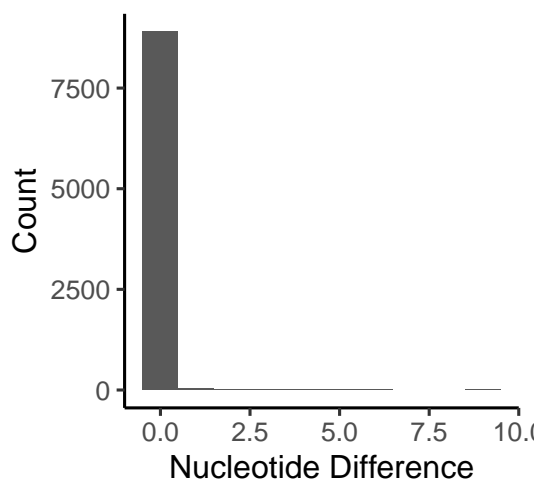
### TRBV12-1\*ap01

258 sequences assigned  
256 (99.2%) exact matches, in which:  
255 unique CDR3  
13 unique J



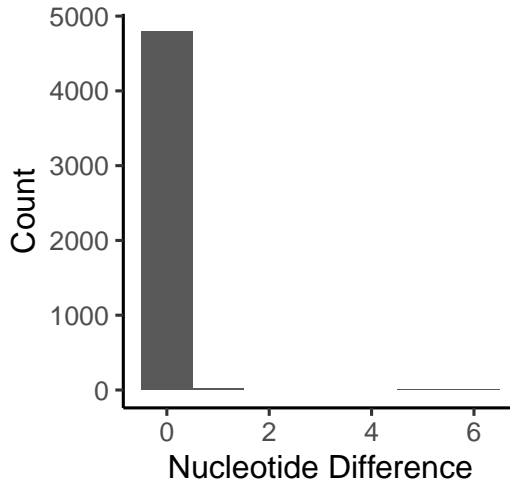
### TRBV9\*ap01

8955 sequences assigned  
8900 (99.4%) exact matches, in which:  
8842 unique CDR3  
13 unique J



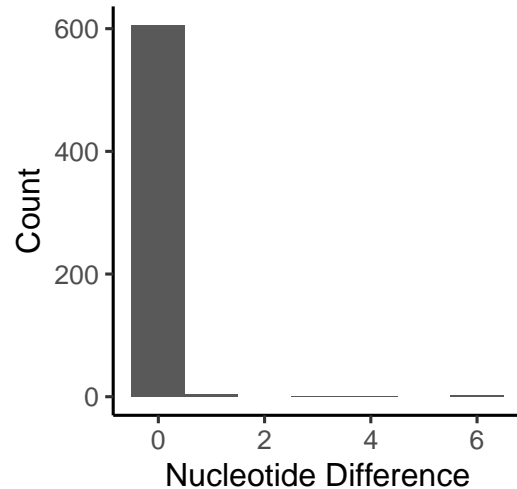
### TRBV11-2\*ap01

4811 sequences assigned  
4791 (99.6%) exact matches, in which:  
4764 unique CDR3  
13 unique J



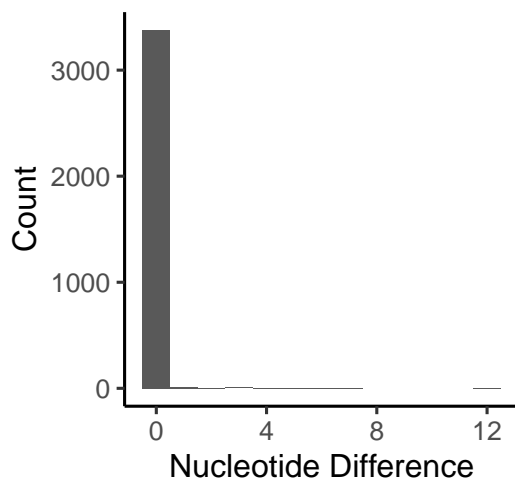
### TRBV12-2\*ap01

614 sequences assigned  
606 (98.7%) exact matches, in which:  
605 unique CDR3  
13 unique J



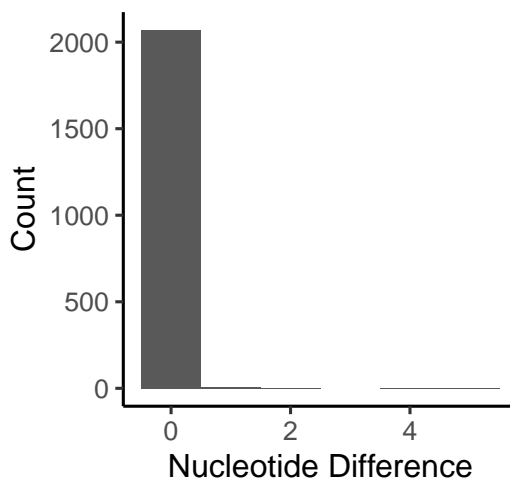
### TRBV21-1\*ap01

3410 sequences assigned  
3378 (99.1%) exact matches, in which:  
3360 unique CDR3  
13 unique J



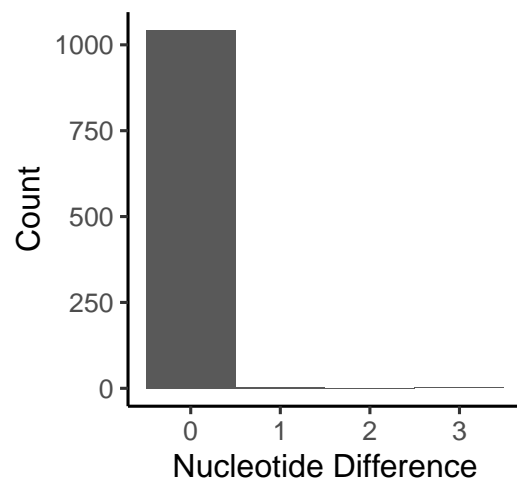
### TRBV11-3\*ap01

2080 sequences assigned  
2070 (99.5%) exact matches, in which:  
2060 unique CDR3  
13 unique J



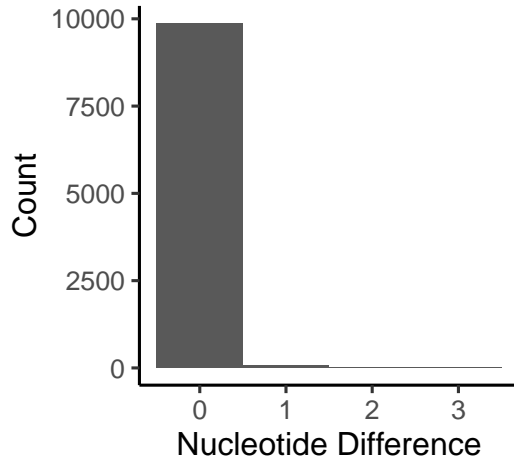
### TRBV12-5\*ap01

1050 sequences assigned  
1043 (99.3%) exact matches, in which:  
1035 unique CDR3  
13 unique J



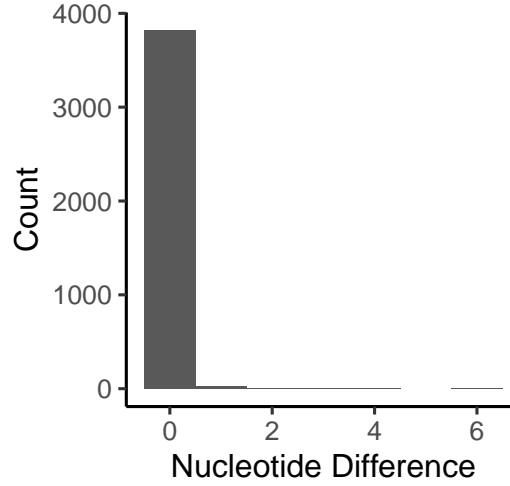
### TRBV12-34\*ap01

9955 sequences assigned  
9876 (99.2%) exact matches, in which:  
9795 unique CDR3  
13 unique J



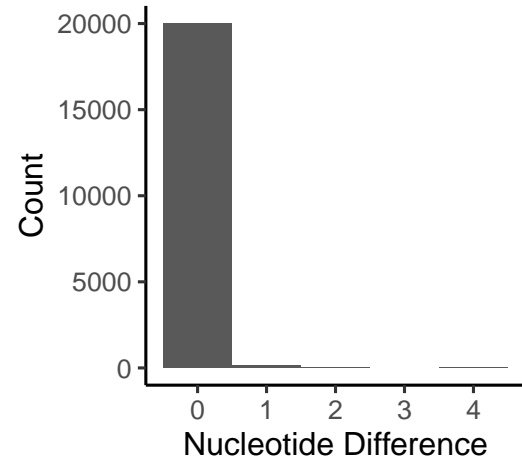
### TRBV24-1\*ap01

3847 sequences assigned  
3818 (99.2%) exact matches, in which:  
3792 unique CDR3  
13 unique J



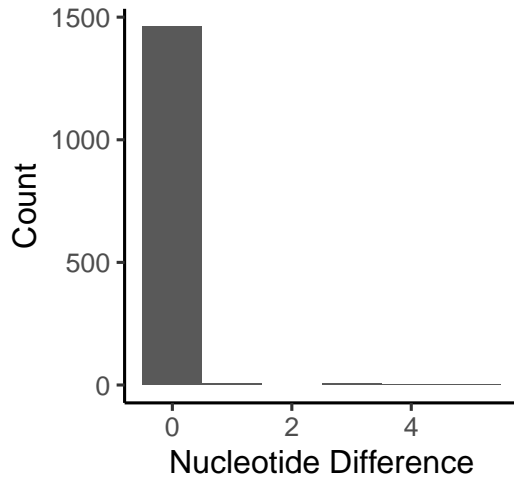
### TRBV5-1\*ap01

20170 sequences assigned  
20024 (99.3%) exact matches, in which:  
19783 unique CDR3  
13 unique J



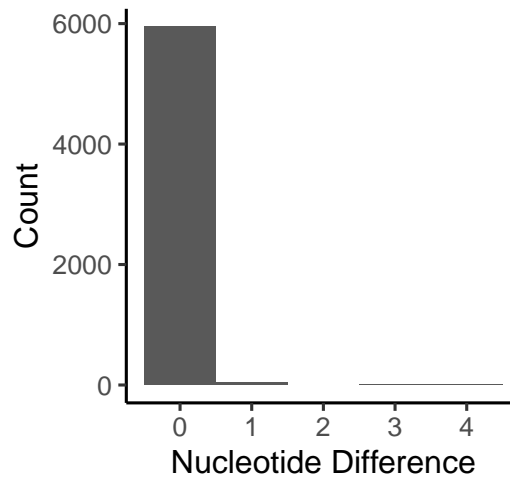
### TRBV23-1\*ap01

1476 sequences assigned  
1461 (99%) exact matches, in which:  
1452 unique CDR3  
13 unique J



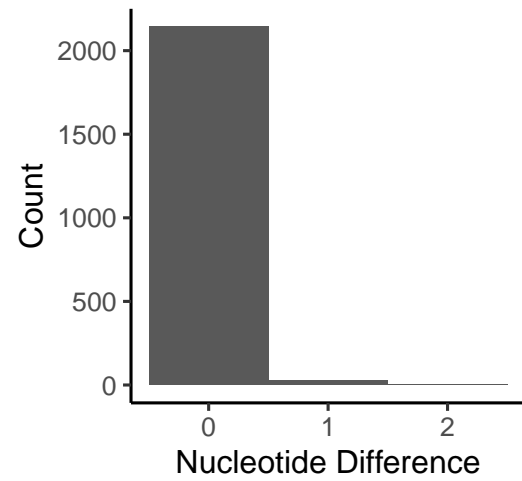
### TRBV4-1\*ap01

5990 sequences assigned  
5948 (99.3%) exact matches, in which:  
5860 unique CDR3  
13 unique J



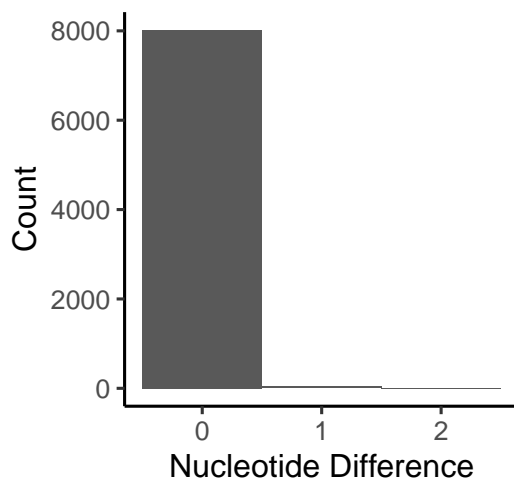
### TRBV25-1\*ap01

2170 sequences assigned  
2143 (98.8%) exact matches, in which:  
2091 unique CDR3  
13 unique J



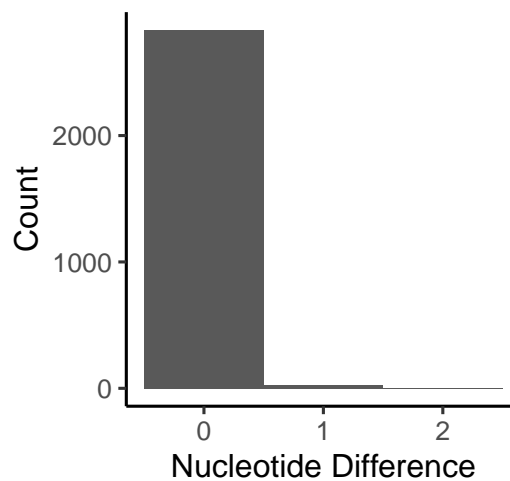
### TRBV3-12\*ap01

8062 sequences assigned  
8018 (99.5%) exact matches, in which:  
7983 unique CDR3  
13 unique J



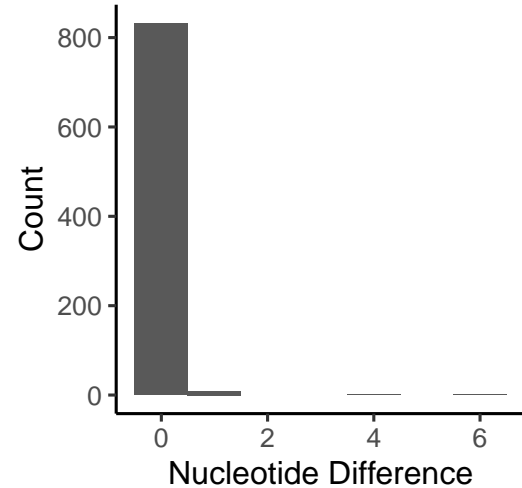
### TRBV4-2\*ap01

2862 sequences assigned  
2835 (99.1%) exact matches, in which:  
2798 unique CDR3  
13 unique J



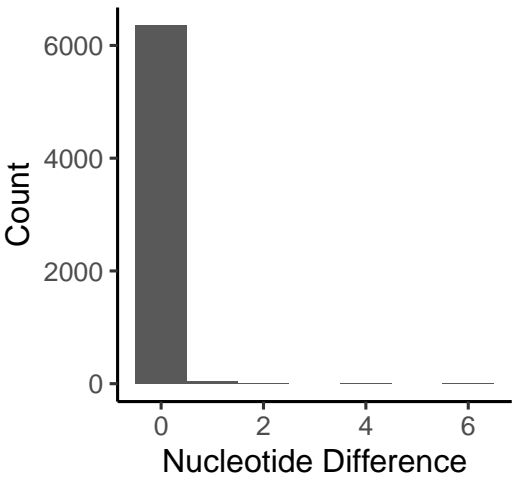
### TRBV5-3\*ap01

843 sequences assigned  
832 (98.7%) exact matches, in which:  
821 unique CDR3  
13 unique J



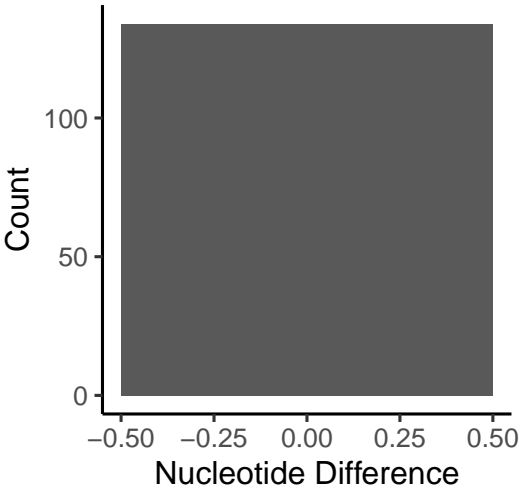
TRBV5-4\*ap01

6410 sequences assigned  
6355 (99.1%) exact matches, in which:  
6284 unique CDR3  
13 unique J



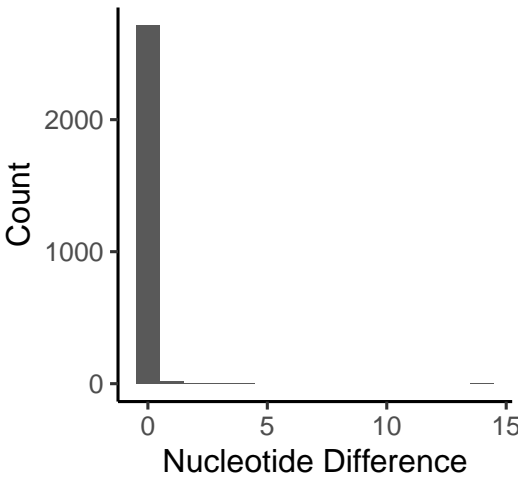
TRBV5-7\*ap01

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



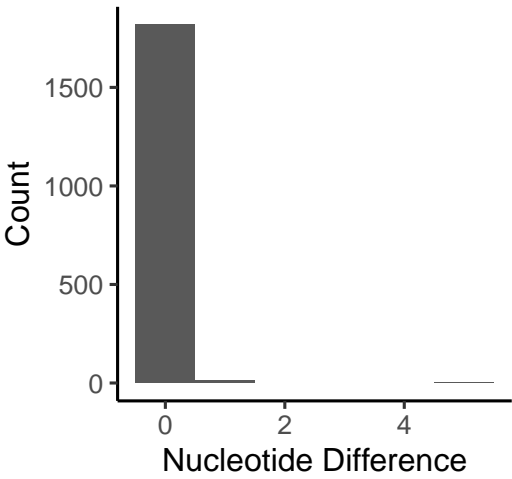
TRBV6-4\*ap01

2743 sequences assigned  
2714 (98.9%) exact matches, in which:  
2691 unique CDR3  
13 unique J



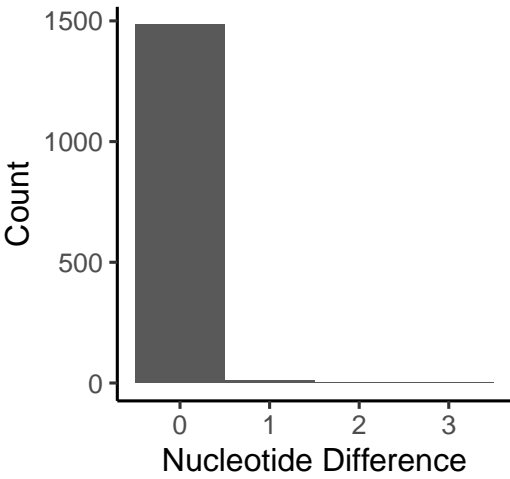
TRBV5-5\*ap01

1831 sequences assigned  
1818 (99.3%) exact matches, in which:  
1813 unique CDR3  
14 unique J



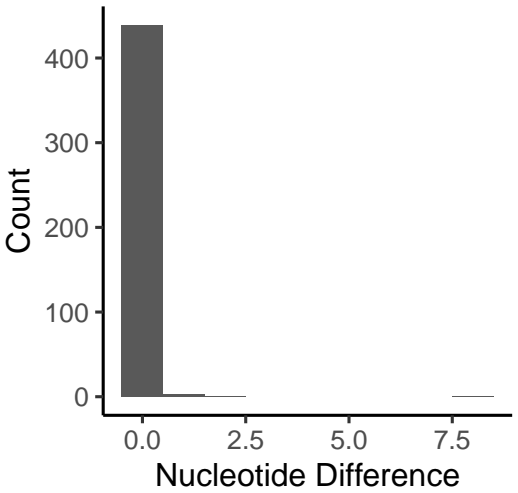
TRBV5-8\*ap01

1498 sequences assigned  
1484 (99.1%) exact matches, in which:  
1469 unique CDR3  
14 unique J



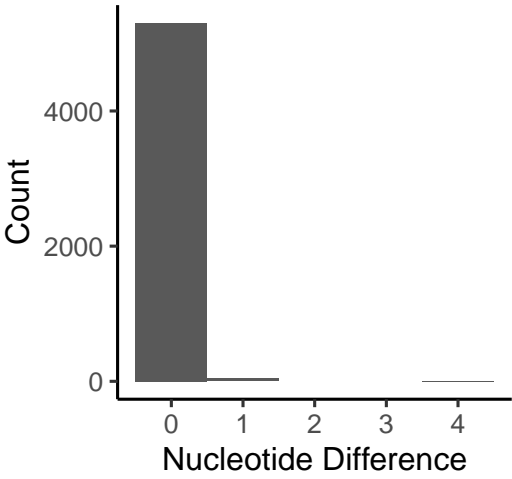
TRBV6-7\*ap01

444 sequences assigned  
439 (98.9%) exact matches, in which:  
433 unique CDR3  
13 unique J



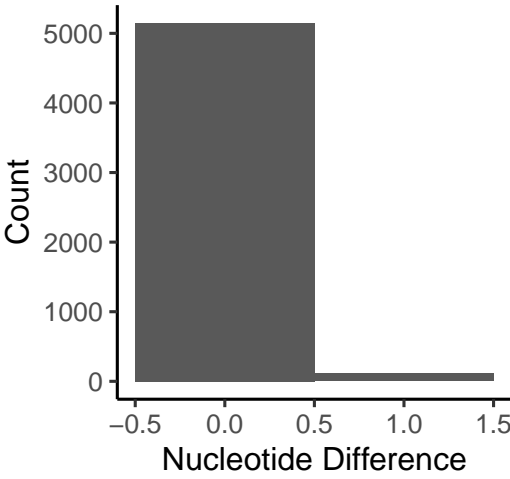
TRBV5-6\*ap01

5345 sequences assigned  
5301 (99.2%) exact matches, in which:  
5192 unique CDR3  
13 unique J



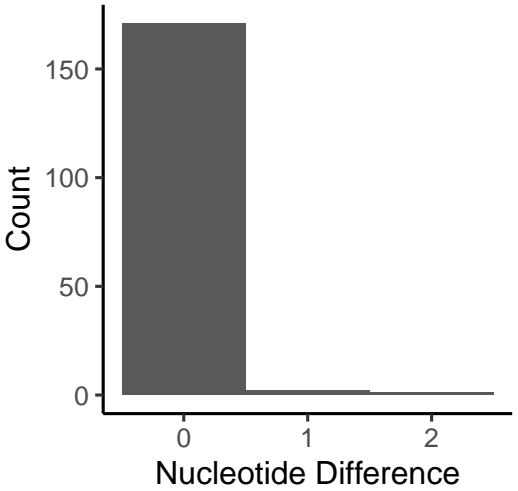
TRBV6-1\*ap01

5262 sequences assigned  
5148 (97.8%) exact matches, in which:  
5074 unique CDR3  
13 unique J



TRBV6-8\*ap01

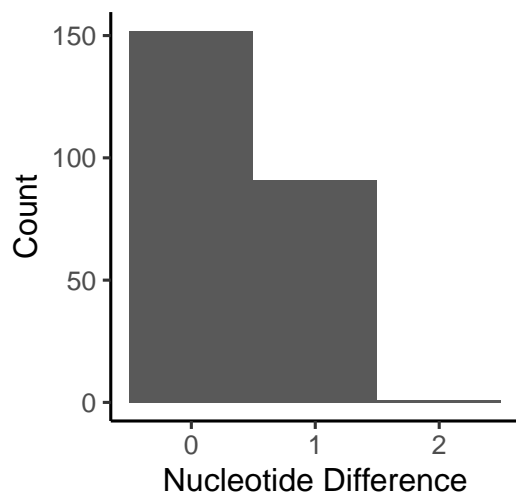
174 sequences assigned  
171 (98.3%) exact matches, in which:  
168 unique CDR3  
13 unique J





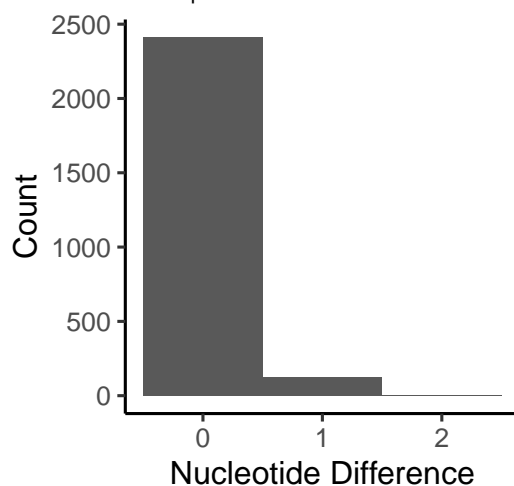
### TRBV6-9\*ap01

244 sequences assigned  
152 (62.3%) exact matches, in which:  
151 unique CDR3  
13 unique J



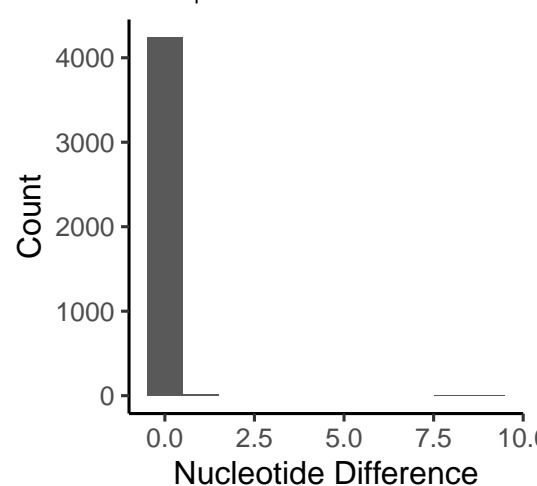
### TRBV6-56\*ap02

2534 sequences assigned  
2411 (95.1%) exact matches, in which:  
2371 unique CDR3  
13 unique J



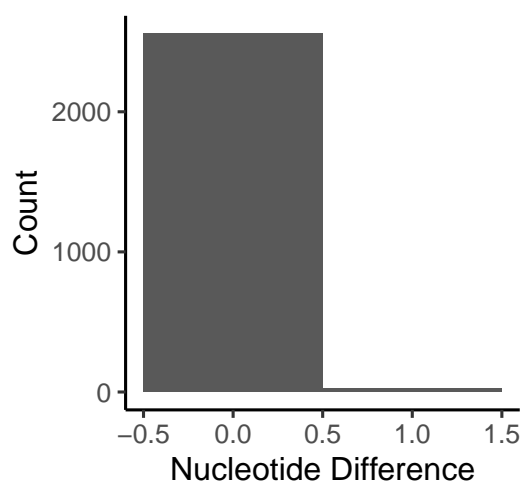
### TRBV7-2\*ap01

4266 sequences assigned  
4241 (99.4%) exact matches, in which:  
4217 unique CDR3  
13 unique J



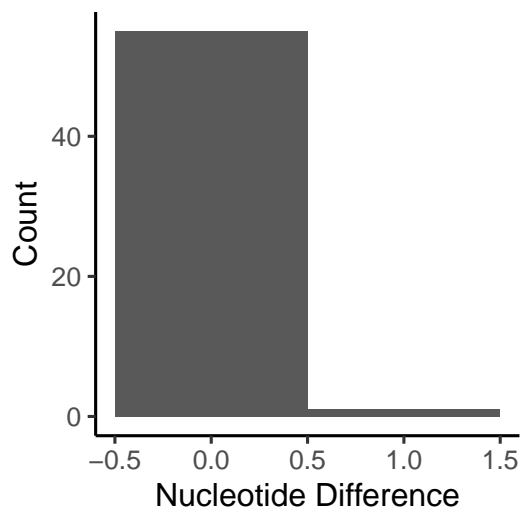
### TRBV6-23\*ap01

2584 sequences assigned  
2557 (99%) exact matches, in which:  
2508 unique CDR3  
13 unique J



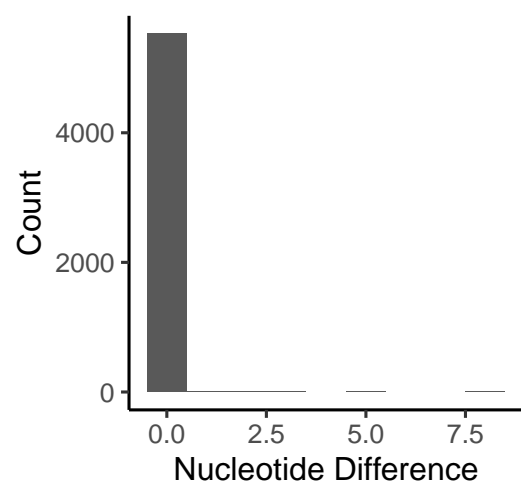
### TRBV7-1\*ap01\_G291C\_T

56 sequences assigned  
55 (98.2%) exact matches, in which:  
55 unique CDR3  
11 unique J



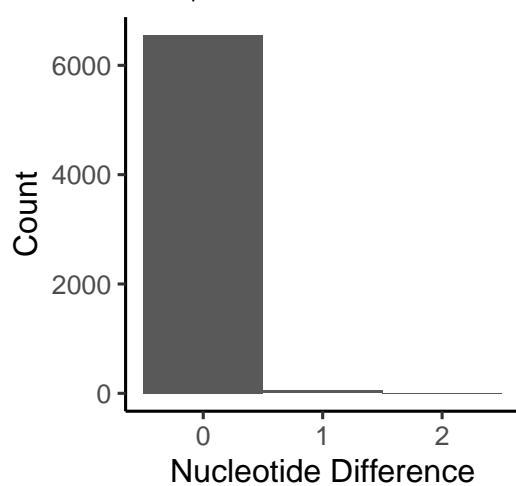
### TRBV7-3\*ap01

5546 sequences assigned  
5528 (99.7%) exact matches, in which:  
5487 unique CDR3  
13 unique J



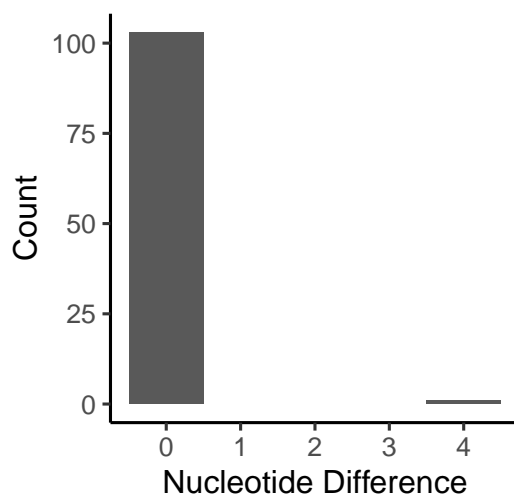
### TRBV6-56\*ap01

6608 sequences assigned  
6554 (99.2%) exact matches, in which:  
6428 unique CDR3  
13 unique J



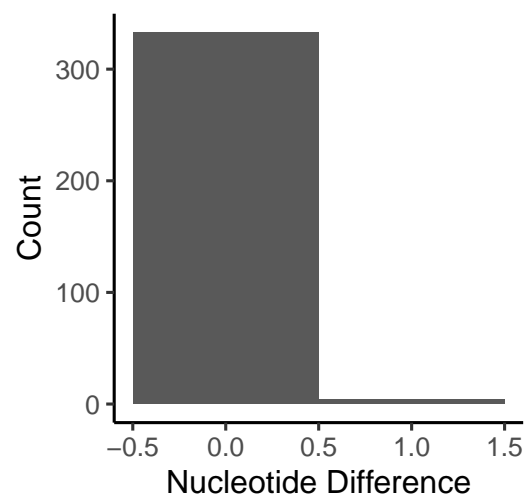
### TRBV7-1\*ap01\_G291C\_

104 sequences assigned  
103 (99%) exact matches, in which:  
102 unique CDR3  
13 unique J



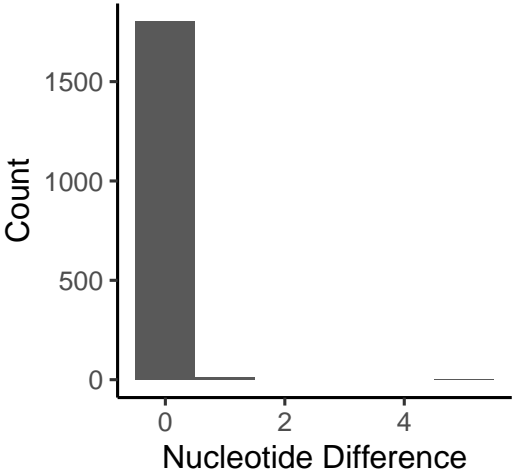
### TRBV7-4\*ap01

337 sequences assigned  
333 (98.8%) exact matches, in which:  
330 unique CDR3  
13 unique J



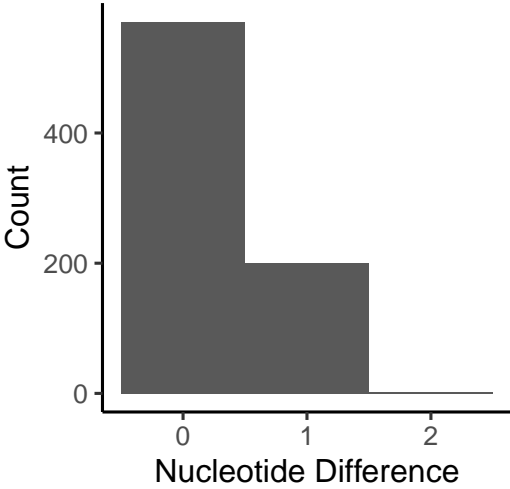
TRBV7-6\*ap01

1816 sequences assigned  
1803 (99.3%) exact matches, in which:  
1785 unique CDR3  
13 unique J



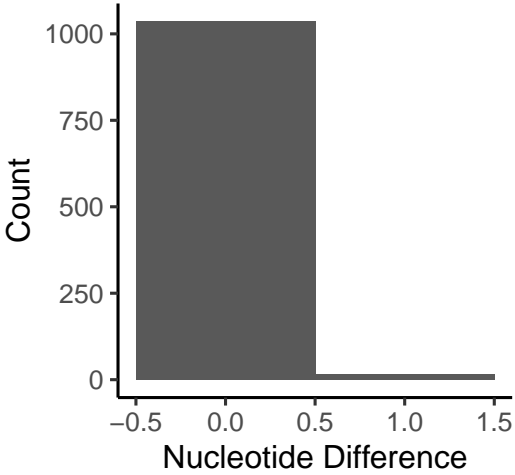
TRBV7-8\*ap03

773 sequences assigned  
571 (73.9%) exact matches, in which:  
564 unique CDR3  
13 unique J



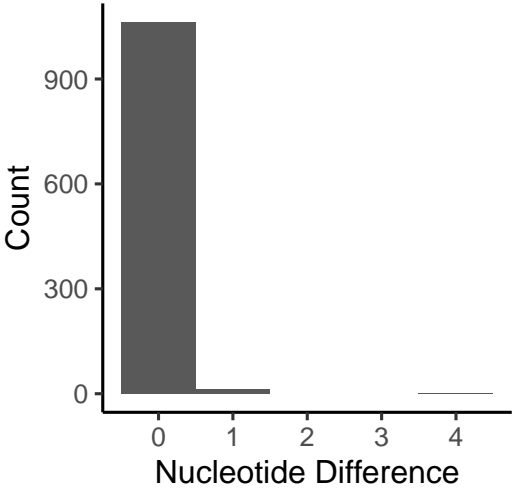
TRBV29-1\*ap02

1052 sequences assigned  
1036 (98.5%) exact matches, in which:  
1012 unique CDR3  
13 unique J



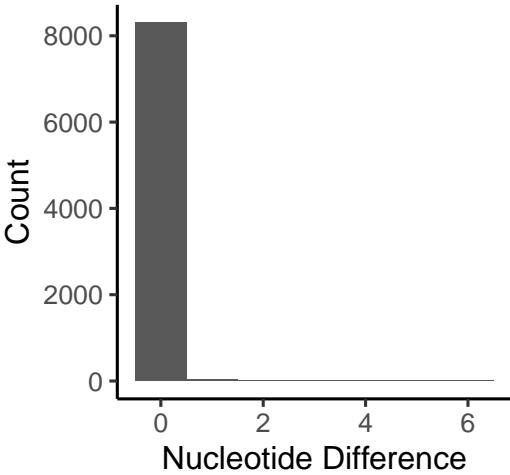
TRBV7-7\*ap01\_C315T

1077 sequences assigned  
1063 (98.7%) exact matches, in which:  
1051 unique CDR3  
13 unique J



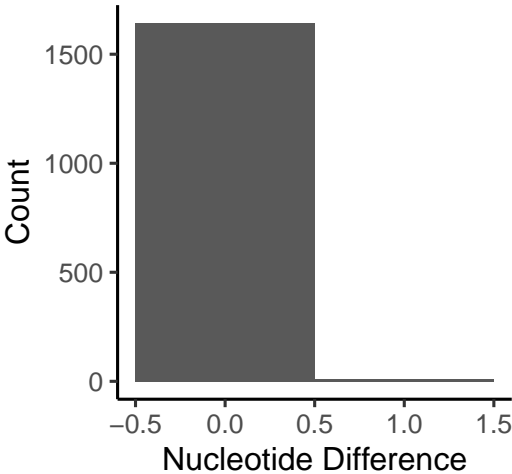
TRBV7-9\*ap01

8353 sequences assigned  
8303 (99.4%) exact matches, in which:  
8233 unique CDR3  
13 unique J



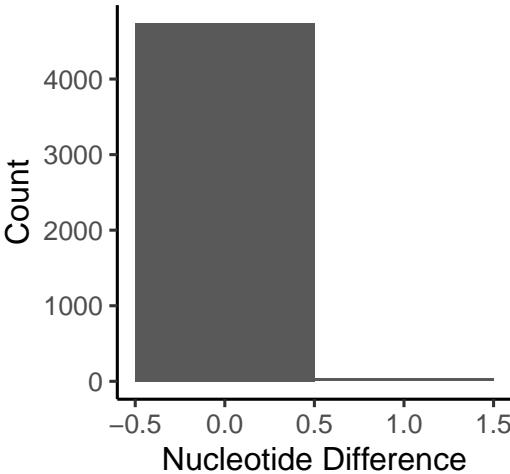
TRBV7-8\*ap01

1655 sequences assigned  
1643 (99.3%) exact matches, in which:  
1624 unique CDR3  
13 unique J

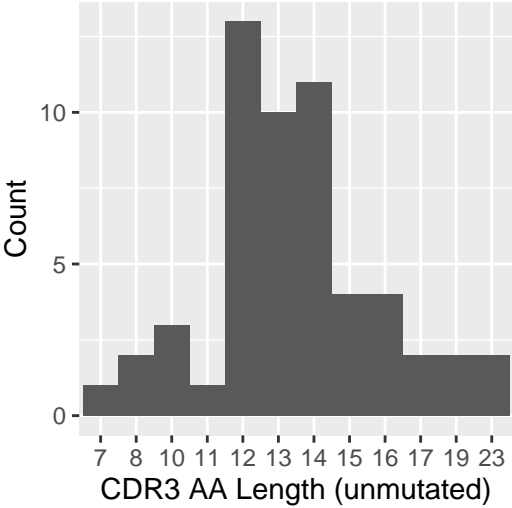


TRBV29-1\*ap01

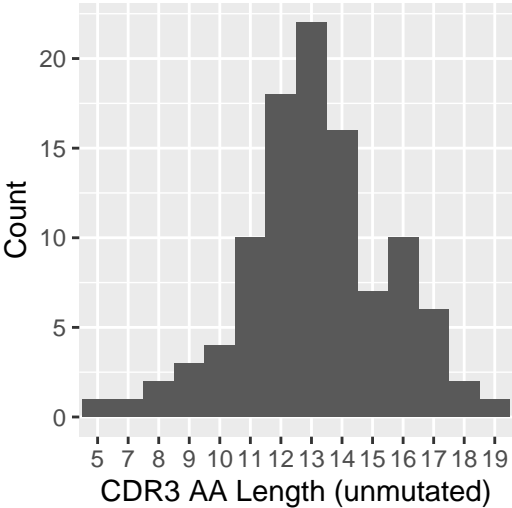
4780 sequences assigned  
4741 (99.2%) exact matches, in which:  
4651 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



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



TRBV7-7\*ap01\_C315T

