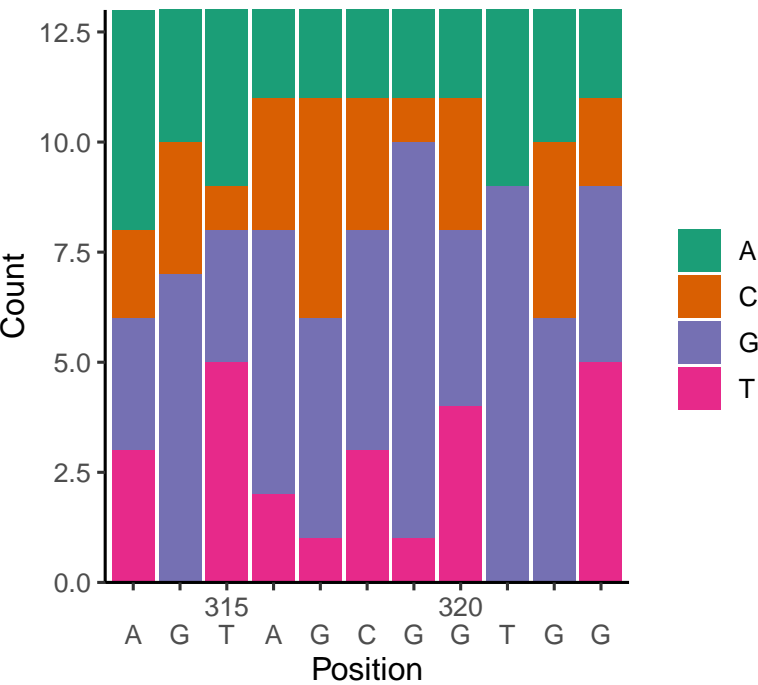
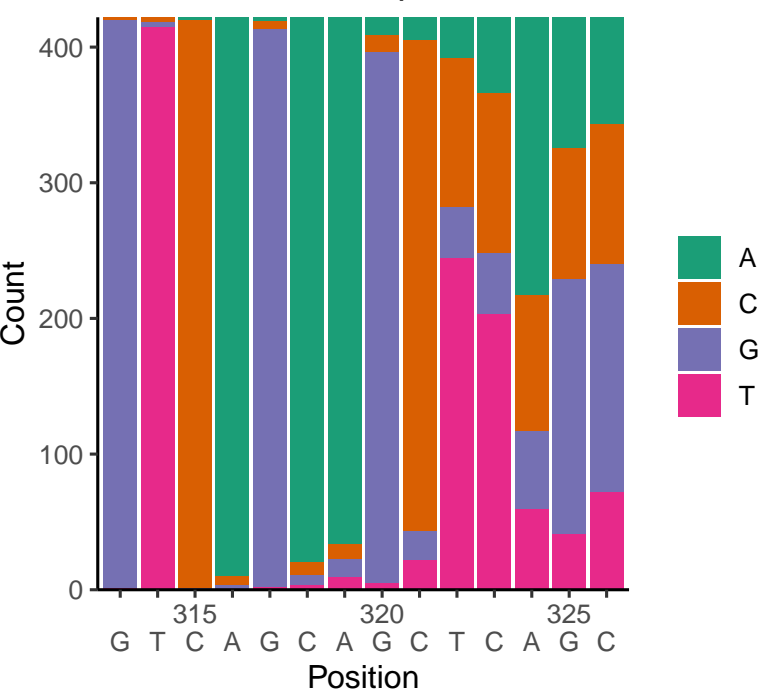


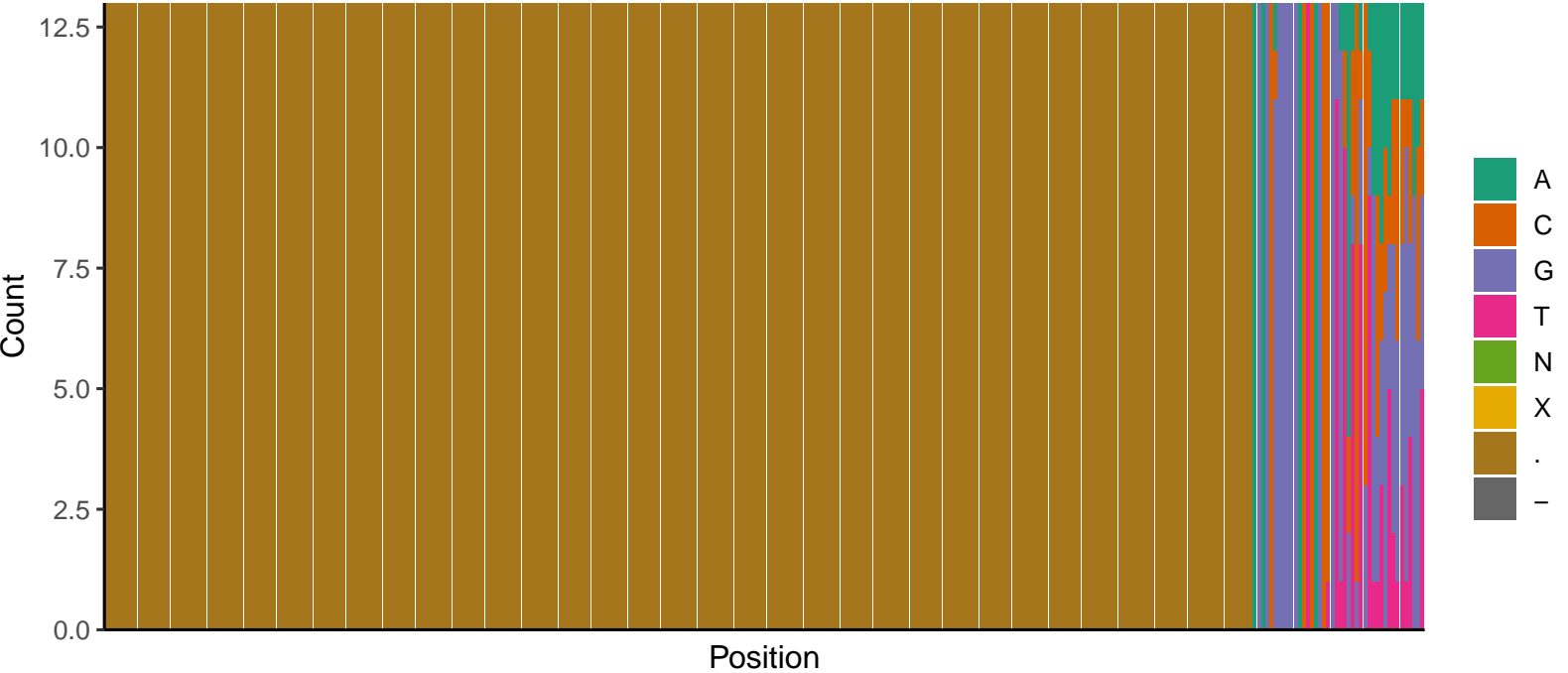
Gene TRBV17\*ap01\_A289G



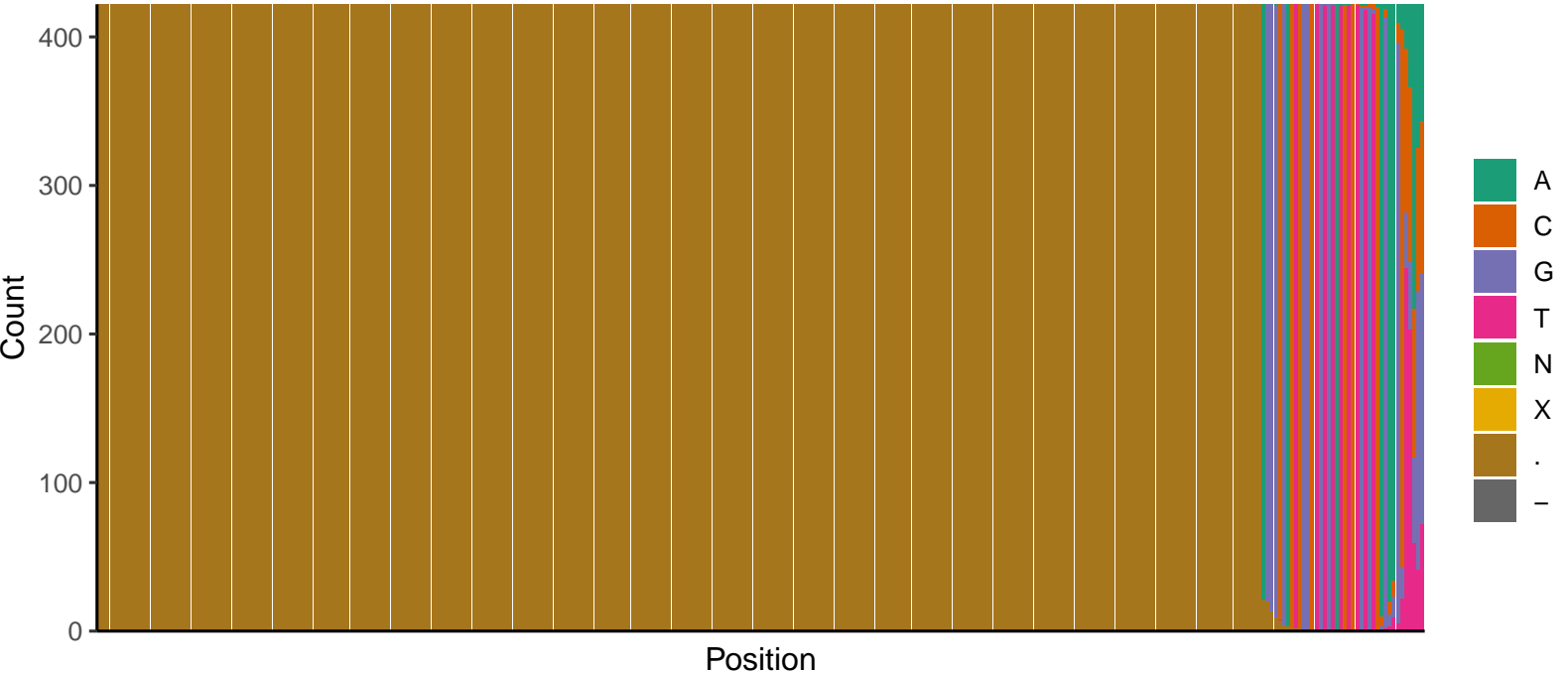
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



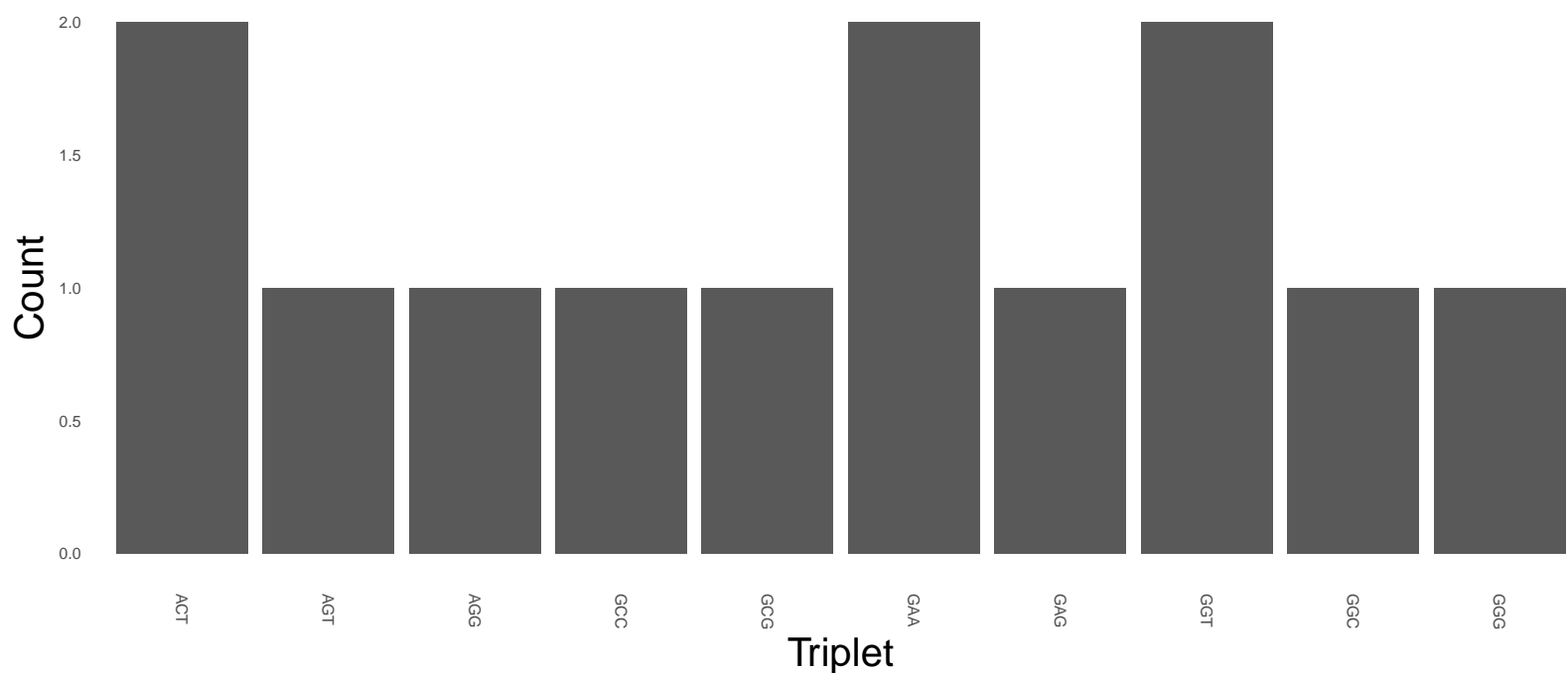
Gene TRBV17\*ap01\_A289G



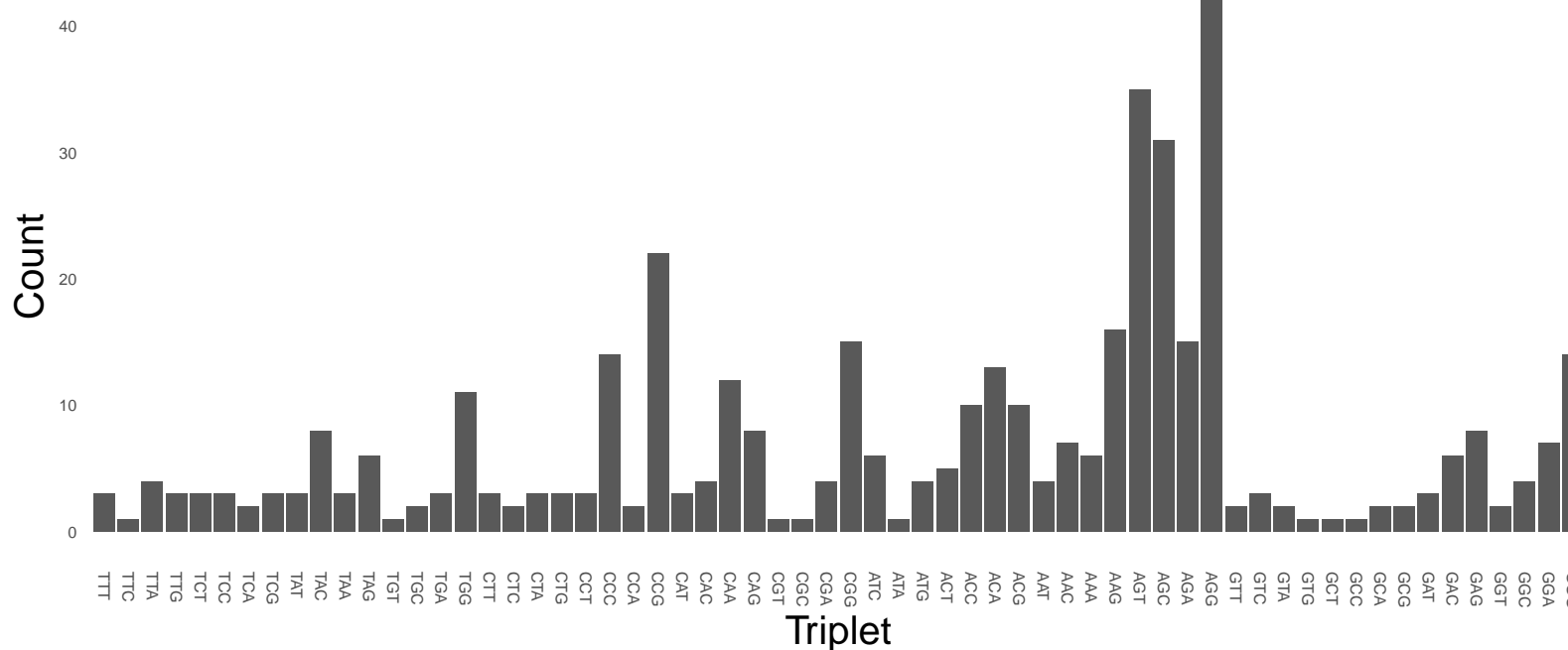
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV17\*ap01\_A289G– Final 3 nucleotides as a triplet

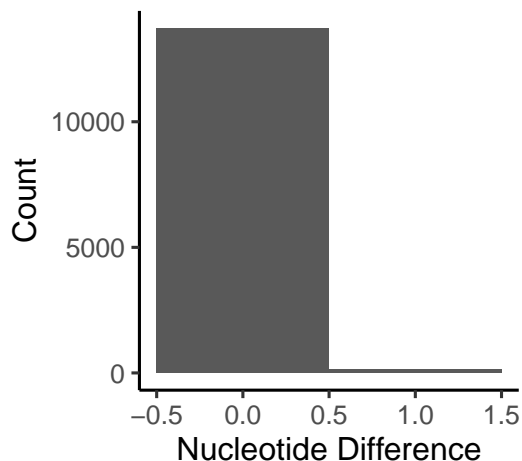


TRBV7-1\*ap01\_G291C\_T296C\_C314T– Final 3 nucleotides as a triplet



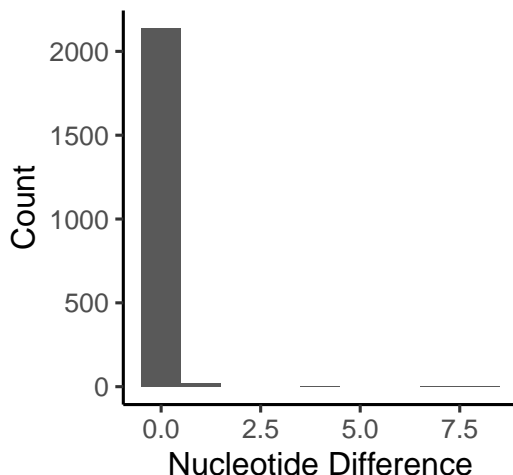
### TRBV20-1\*ap01

13874 sequences assigned  
13727 (98.9%) exact matches, in which:  
13524 unique CDR3  
13 unique J



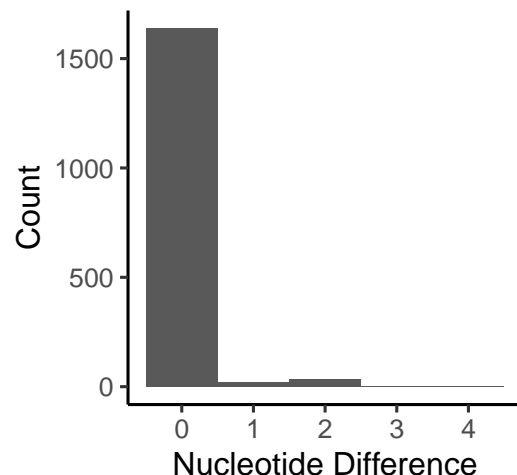
### TRBV10-2\*ap01

2159 sequences assigned  
2137 (99%) exact matches, in which:  
2095 unique CDR3  
13 unique J



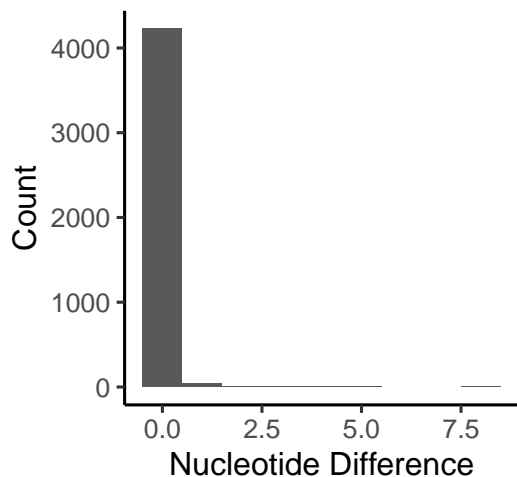
### TRBV13\*ap01

1694 sequences assigned  
1638 (96.7%) exact matches, in which:  
1587 unique CDR3  
13 unique J



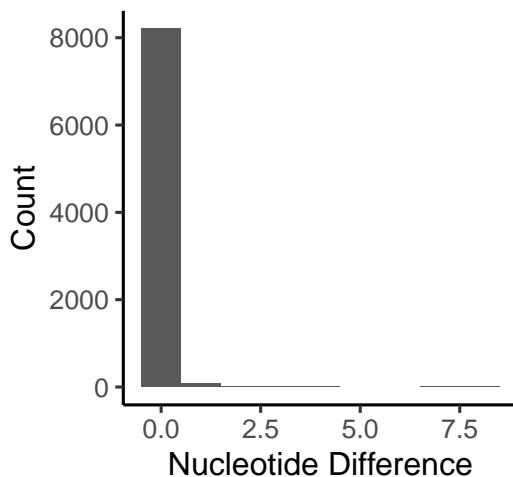
### TRBV10-1\*ap01

4274 sequences assigned  
4227 (98.9%) exact matches, in which:  
4128 unique CDR3  
13 unique J



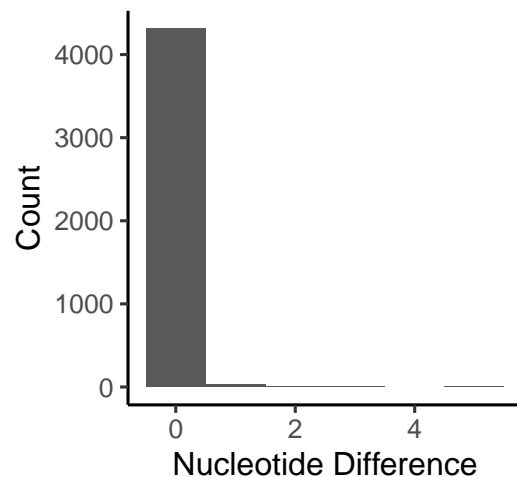
### TRBV10-3\*ap01

8297 sequences assigned  
8206 (98.9%) exact matches, in which:  
8053 unique CDR3  
13 unique J



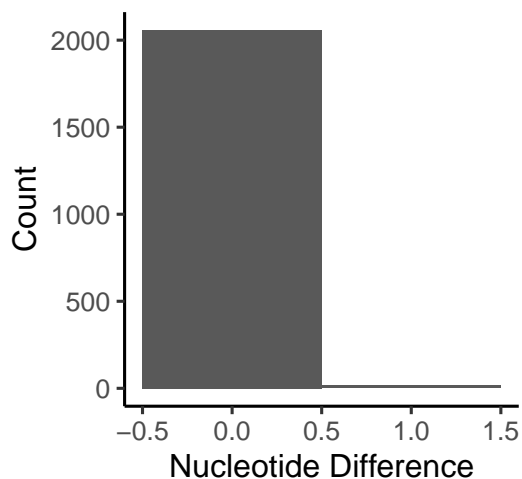
### TRBV14\*ap01

4341 sequences assigned  
4311 (99.3%) exact matches, in which:  
4242 unique CDR3  
13 unique J



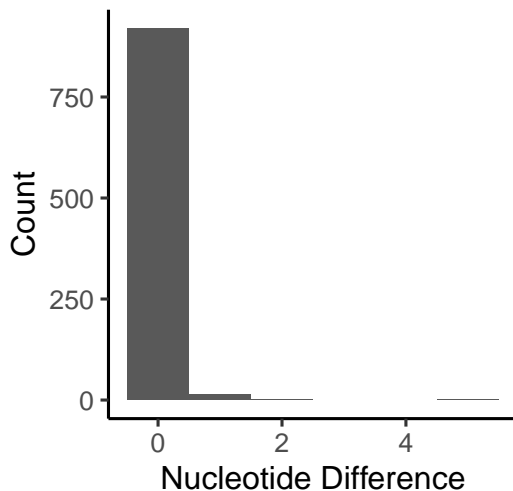
### TRBV20-1\*ap02

2075 sequences assigned  
2058 (99.2%) exact matches, in which:  
2026 unique CDR3  
13 unique J



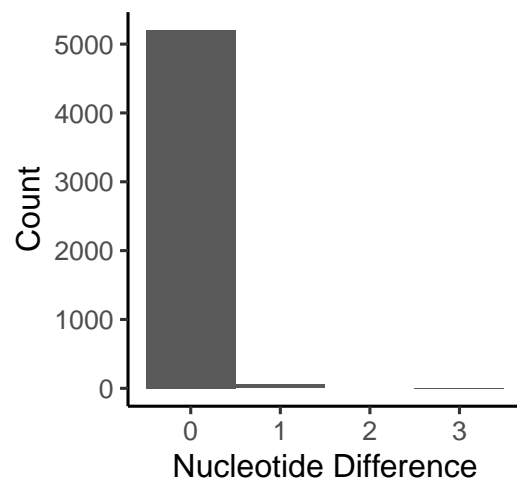
### TRBV1\*ap01

936 sequences assigned  
920 (98.3%) exact matches, in which:  
899 unique CDR3  
13 unique J



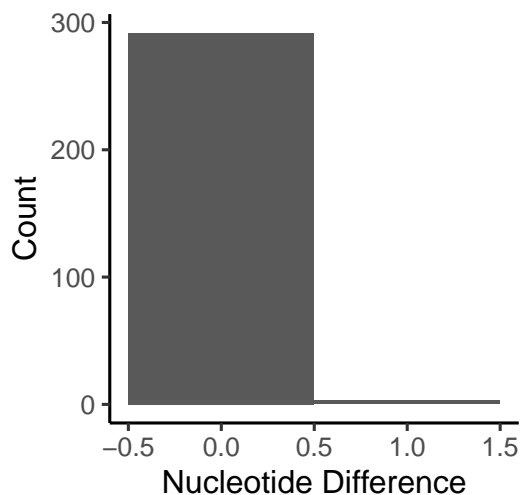
### TRBV15\*ap02

5264 sequences assigned  
5204 (98.9%) exact matches, in which:  
5091 unique CDR3  
13 unique J



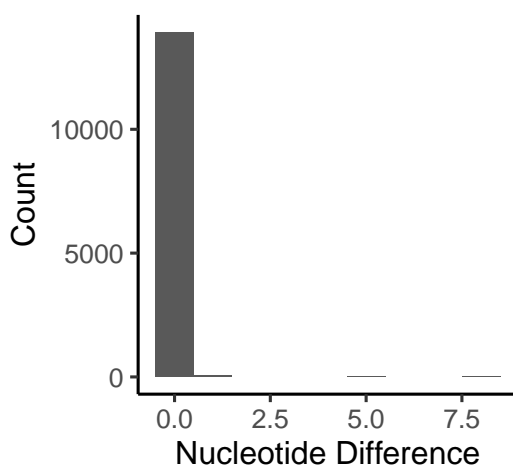
### TRBV16\*ap01

295 sequences assigned  
292 (99%) exact matches, in which:  
288 unique CDR3  
13 unique J



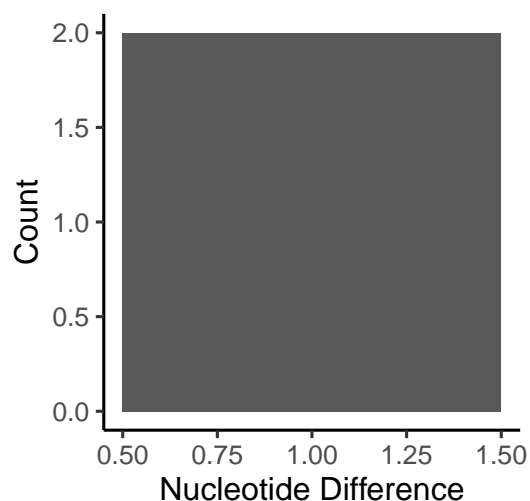
### TRBV18\*ap01

13991 sequences assigned  
13924 (99.5%) exact matches, in which:  
13789 unique CDR3  
13 unique J



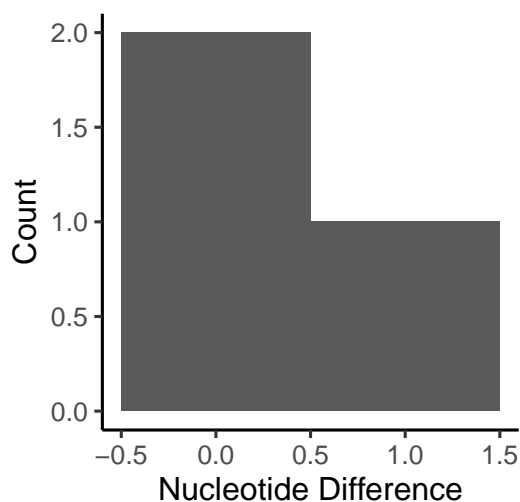
### TRBV26\*ap01

2 sequences assigned  
No exact matches.



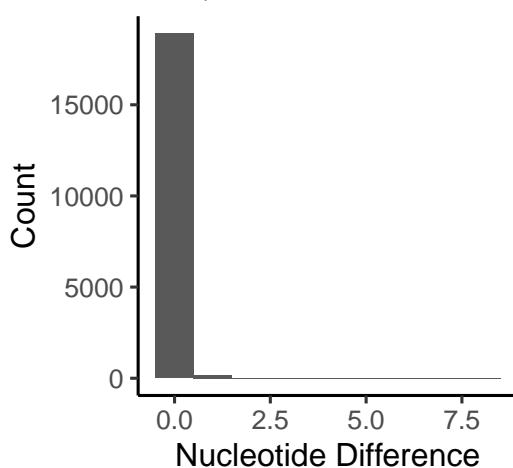
### TRBV17\*ap01

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



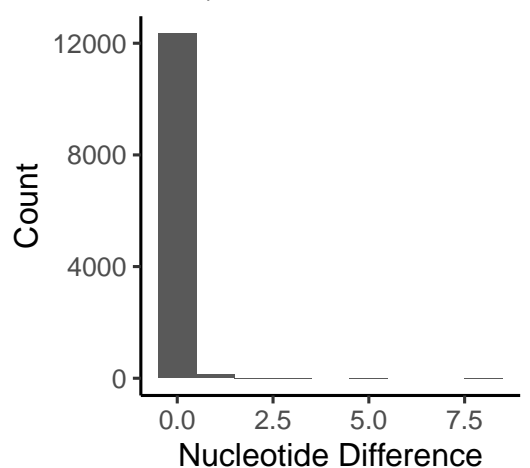
### TRBV19\*ap01

19094 sequences assigned  
18911 (99%) exact matches, in which:  
18724 unique CDR3  
13 unique J



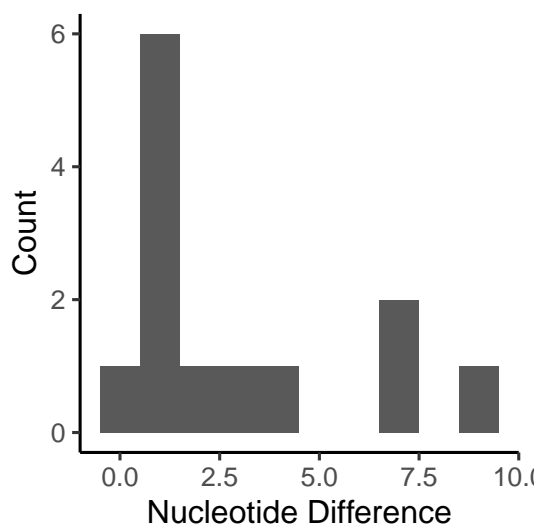
### TRBV27\*ap01

12505 sequences assigned  
12350 (98.8%) exact matches, in which:  
12077 unique CDR3  
13 unique J



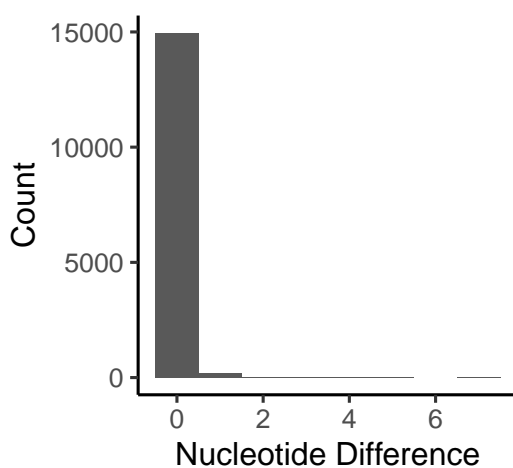
### TRBV17\*ap01\_A289G

13 sequences assigned  
1 (7.7%) exact matches, in which:  
1 unique CDR3  
1 unique J



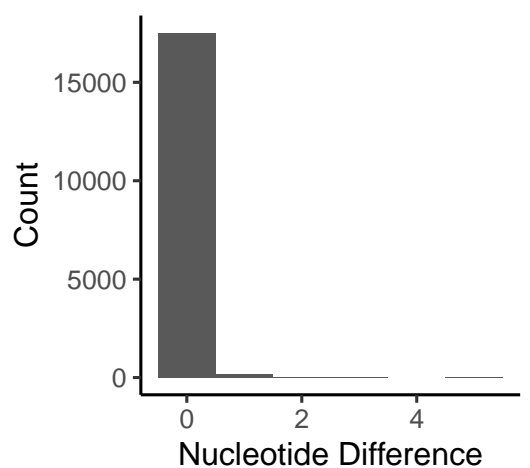
### TRBV2\*ap01

15150 sequences assigned  
14963 (98.8%) exact matches, in which:  
14666 unique CDR3  
13 unique J



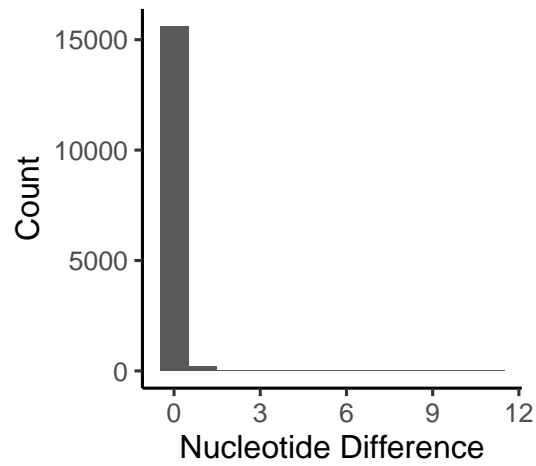
### TRBV28\*ap01

17693 sequences assigned  
17516 (99%) exact matches, in which:  
17245 unique CDR3  
13 unique J



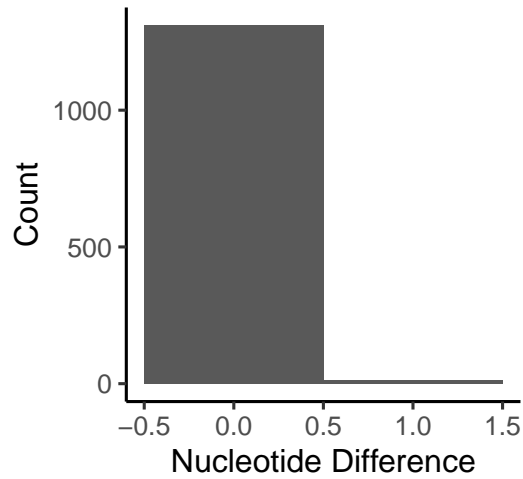
### TRBV30\*ap01

15863 sequences assigned  
15612 (98.4%) exact matches, in which:  
15368 unique CDR3  
13 unique J



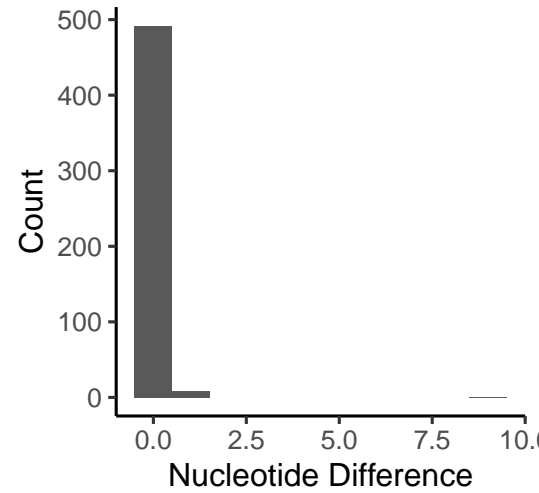
### TRBV11-1\*ap01

1324 sequences assigned  
1310 (98.9%) exact matches, in which:  
1294 unique CDR3  
13 unique J



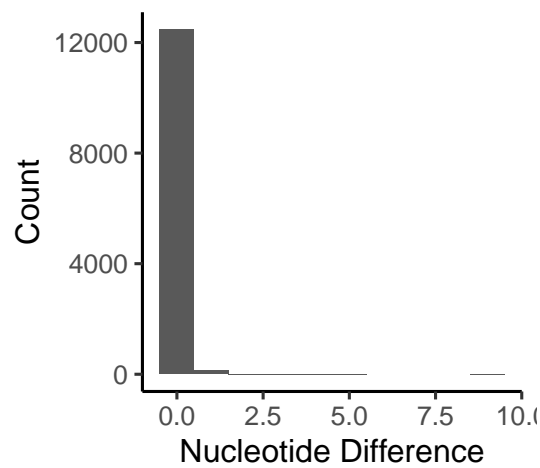
### TRBV12-1\*ap01

502 sequences assigned  
492 (98%) exact matches, in which:  
480 unique CDR3  
13 unique J



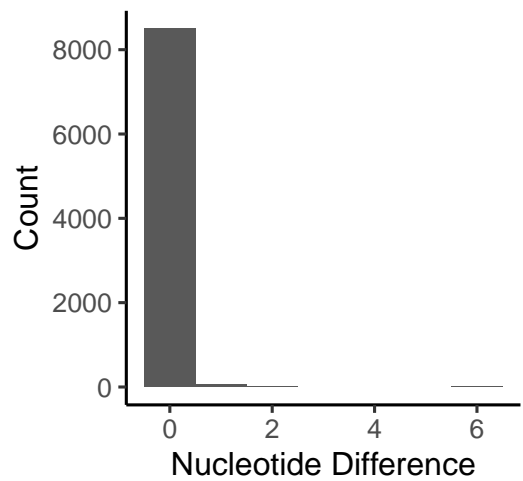
### TRBV9\*ap01

12616 sequences assigned  
12473 (98.9%) exact matches, in which:  
12268 unique CDR3  
13 unique J



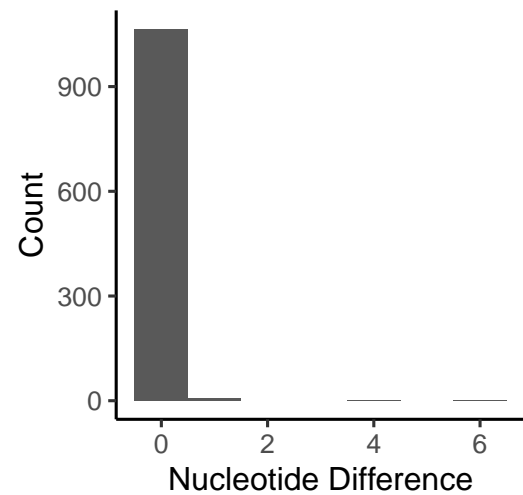
### TRBV11-2\*ap01

8568 sequences assigned  
8497 (99.2%) exact matches, in which:  
8335 unique CDR3  
13 unique J



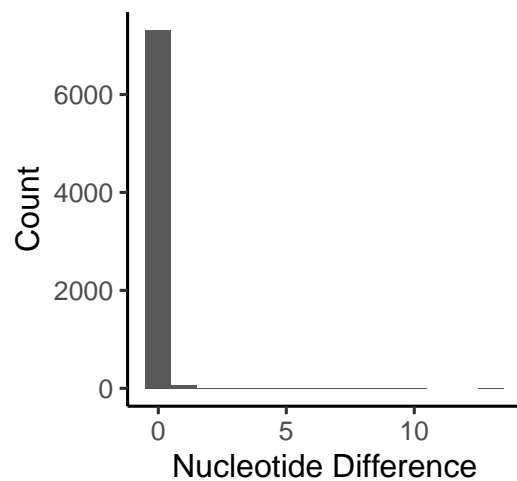
### TRBV12-2\*ap01

1075 sequences assigned  
1065 (99.1%) exact matches, in which:  
1046 unique CDR3  
13 unique J



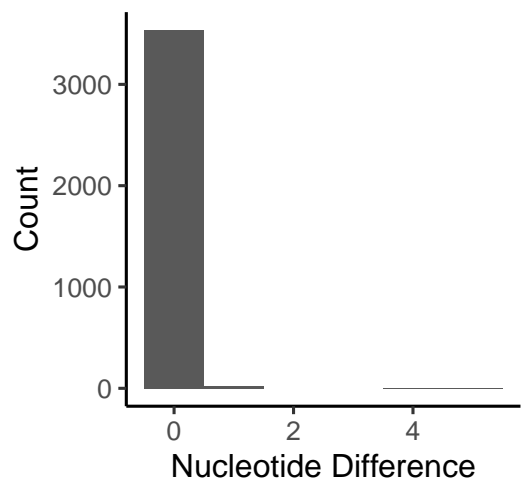
### TRBV21-1\*ap01

7424 sequences assigned  
7316 (98.5%) exact matches, in which:  
7212 unique CDR3  
13 unique J



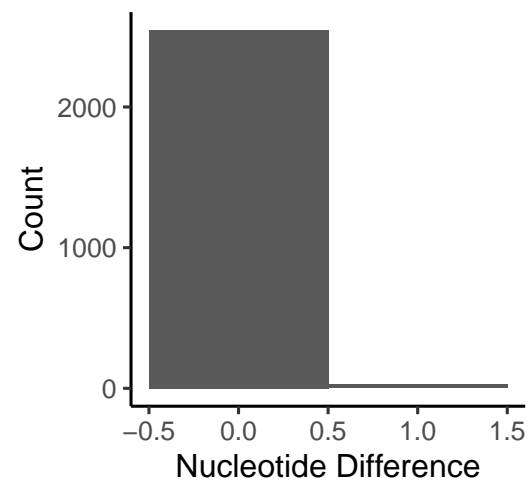
### TRBV11-3\*ap01

3563 sequences assigned  
3536 (99.2%) exact matches, in which:  
3464 unique CDR3  
13 unique J



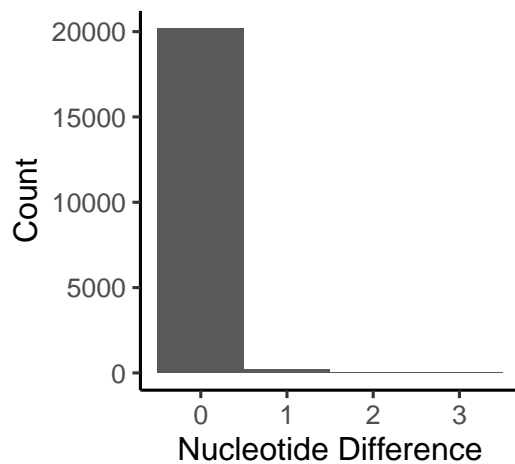
### TRBV12-5\*ap01

2573 sequences assigned  
2547 (99%) exact matches, in which:  
2500 unique CDR3  
13 unique J



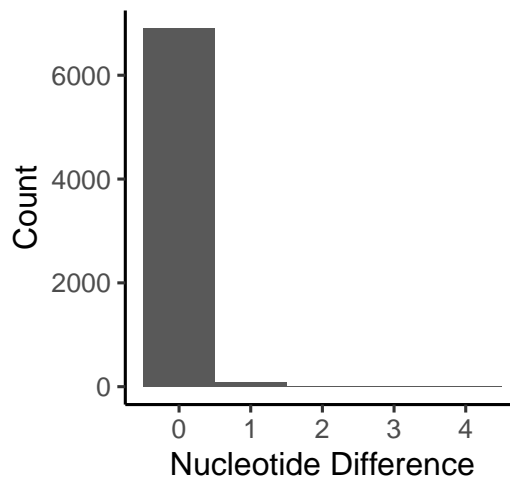
### TRBV12–34\*ap01

20426 sequences assigned  
20203 (98.9%) exact matches, in which:  
19803 unique CDR3  
13 unique J



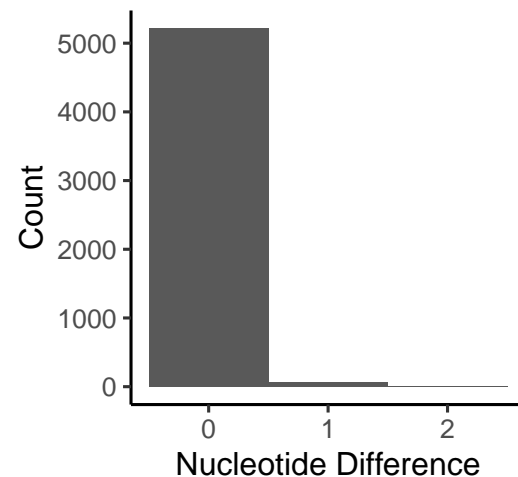
### TRBV24–1\*ap01

6985 sequences assigned  
6902 (98.8%) exact matches, in which:  
6784 unique CDR3  
13 unique J



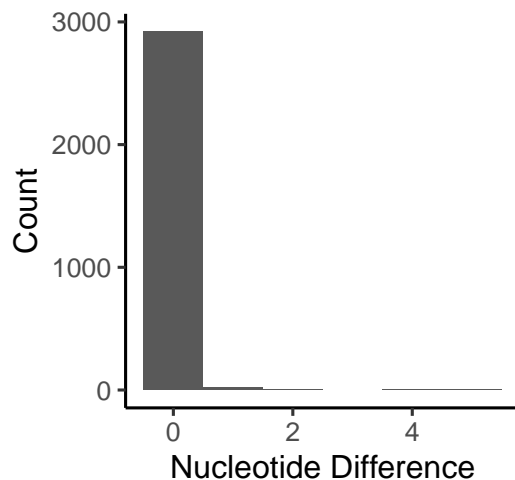
### TRBV4–3\*ap01

5277 sequences assigned  
5215 (98.8%) exact matches, in which:  
5127 unique CDR3  
13 unique J



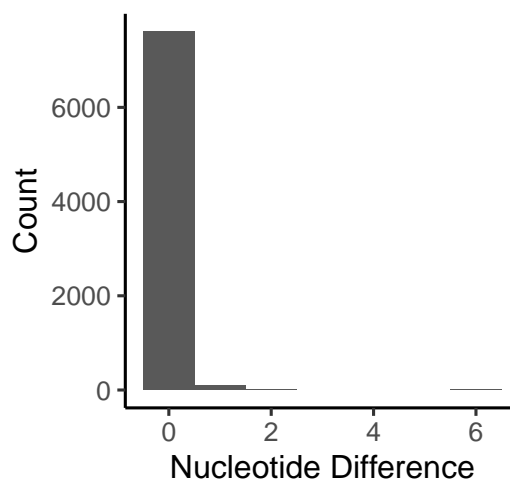
### TRBV23–1\*ap01

2949 sequences assigned  
2920 (99%) exact matches, in which:  
2878 unique CDR3  
13 unique J



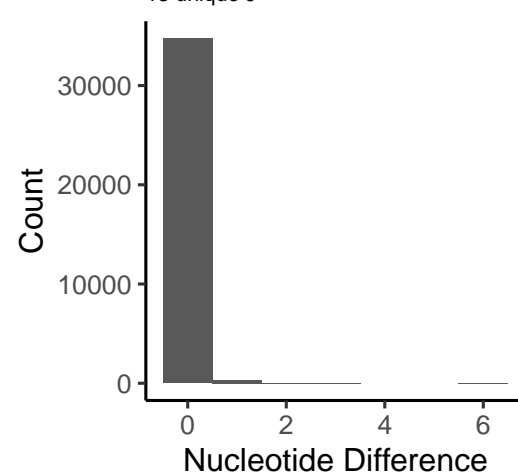
### TRBV4–1\*ap01

7699 sequences assigned  
7606 (98.8%) exact matches, in which:  
7461 unique CDR3  
13 unique J



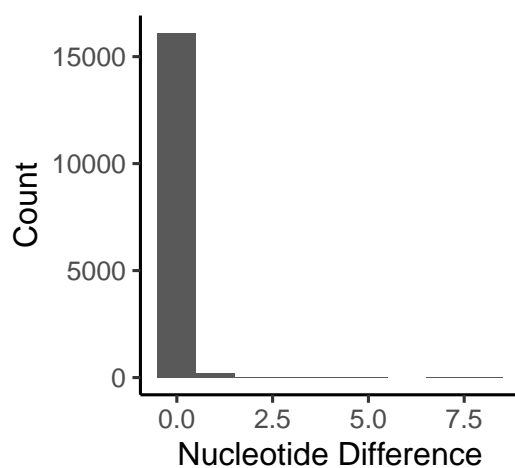
### TRBV5–1\*ap01

35109 sequences assigned  
34748 (99%) exact matches, in which:  
33994 unique CDR3  
13 unique J



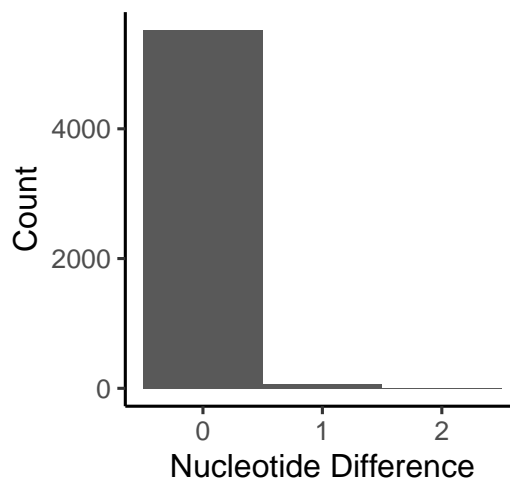
### TRBV3–12\*ap01

16334 sequences assigned  
16114 (98.7%) exact matches, in which:  
15814 unique CDR3  
13 unique J



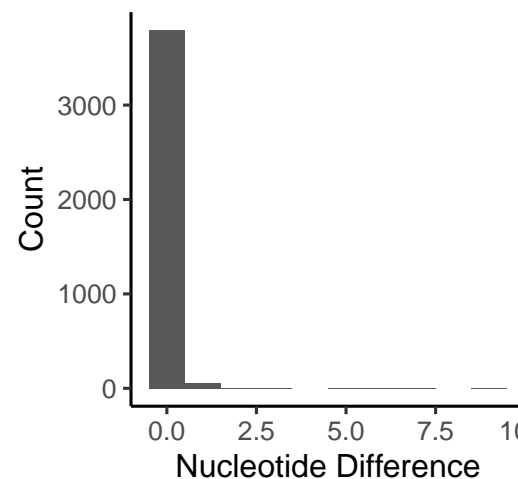
### TRBV4–2\*ap01

5594 sequences assigned  
5522 (98.7%) exact matches, in which:  
5399 unique CDR3  
13 unique J



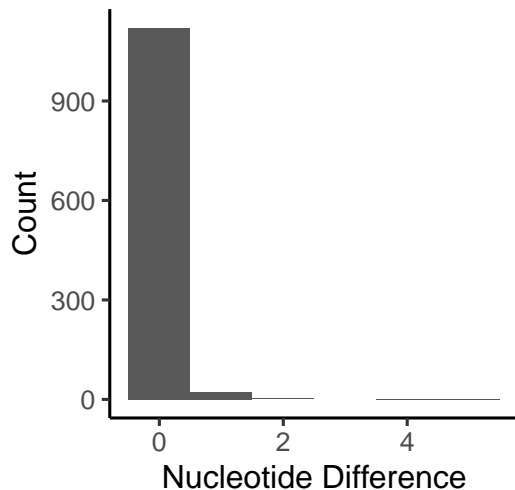
### TRBV25–1\*ap01

3858 sequences assigned  
3795 (98.4%) exact matches, in which:  
3724 unique CDR3  
13 unique J



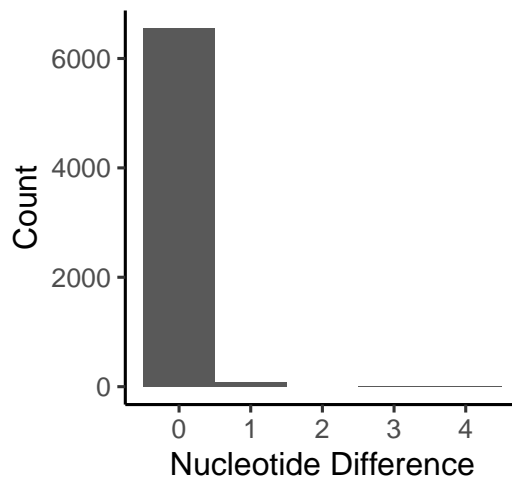
### TRBV5-3\*ap01

1148 sequences assigned  
1121 (97.6%) exact matches, in which:  
1098 unique CDR3  
13 unique J



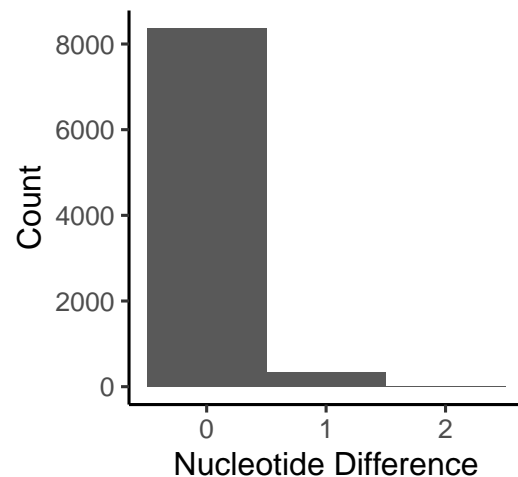
### TRBV5-6\*ap01

6630 sequences assigned  
6550 (98.8%) exact matches, in which:  
6417 unique CDR3  
13 unique J



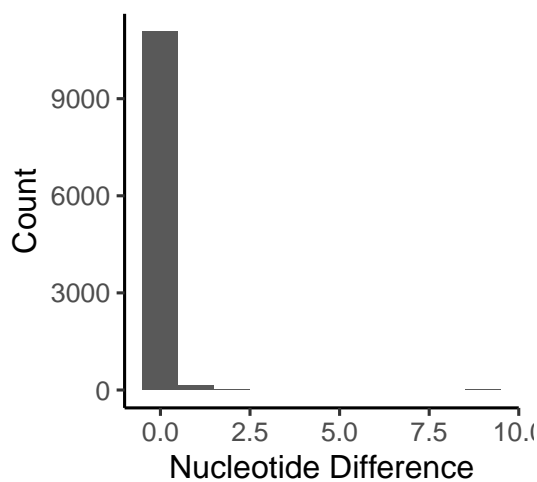
### TRBV6-1\*ap01

8701 sequences assigned  
8364 (96.1%) exact matches, in which:  
8202 unique CDR3  
13 unique J



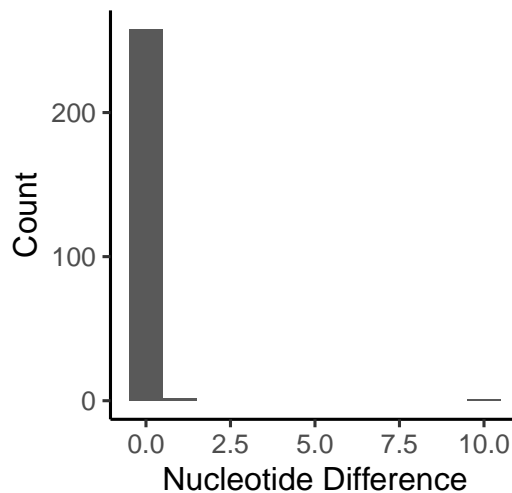
### TRBV5-4\*ap01

11209 sequences assigned  
11069 (98.8%) exact matches, in which:  
10831 unique CDR3  
13 unique J



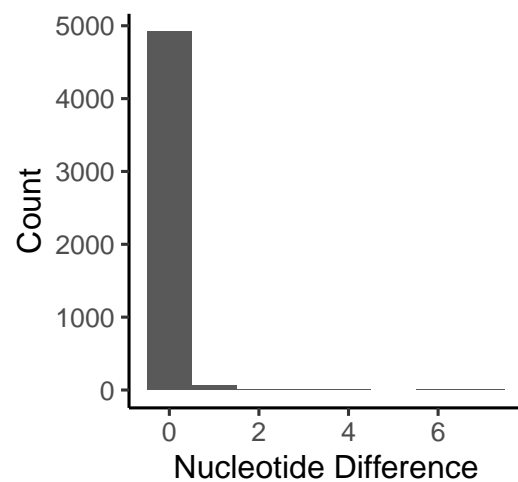
### TRBV5-7\*ap01

261 sequences assigned  
258 (98.9%) exact matches, in which:  
249 unique CDR3  
13 unique J



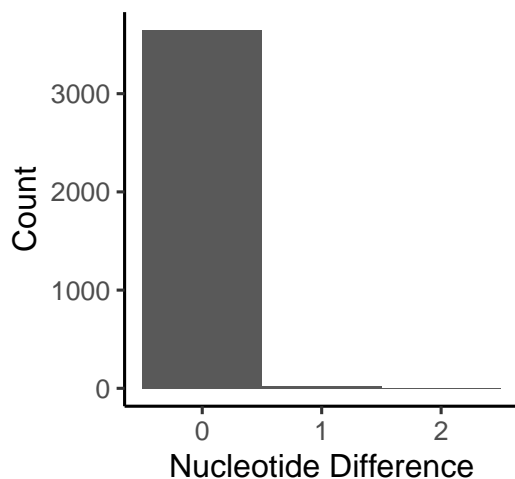
### TRBV6-4\*ap01

4986 sequences assigned  
4918 (98.6%) exact matches, in which:  
4853 unique CDR3  
13 unique J



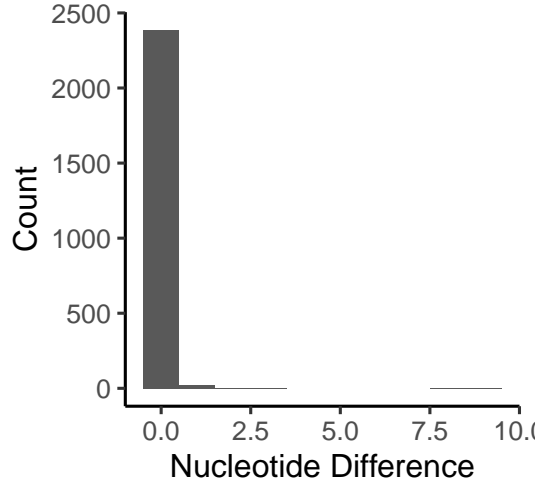
### TRBV5-5\*ap01

3674 sequences assigned  
3648 (99.3%) exact matches, in which:  
3622 unique CDR3  
13 unique J



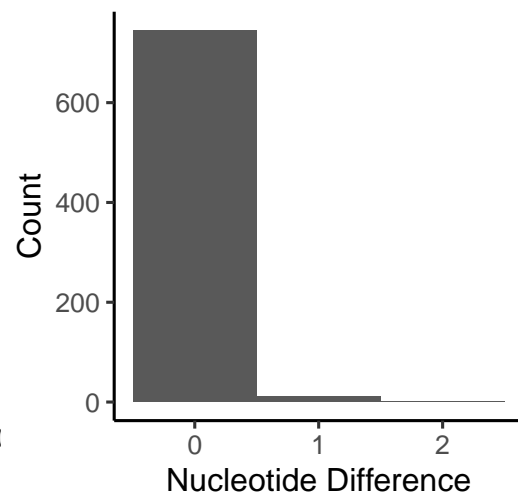
### TRBV5-8\*ap01

2414 sequences assigned  
2386 (98.8%) exact matches, in which:  
2351 unique CDR3  
13 unique J



### TRBV6-7\*ap01

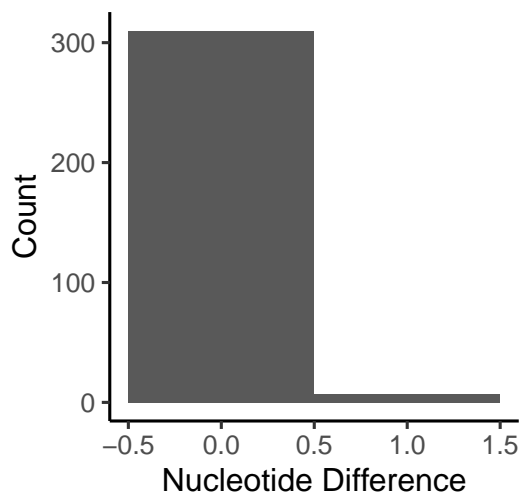
757 sequences assigned  
745 (98.4%) exact matches, in which:  
725 unique CDR3  
13 unique J





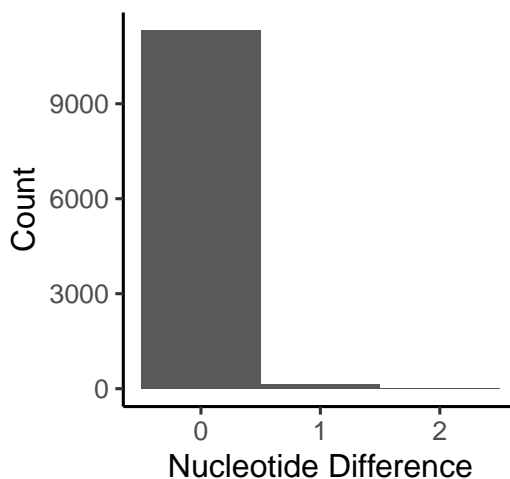
### TRBV6–8\*ap01

317 sequences assigned  
310 (97.8%) exact matches, in which:  
303 unique CDR3  
13 unique J



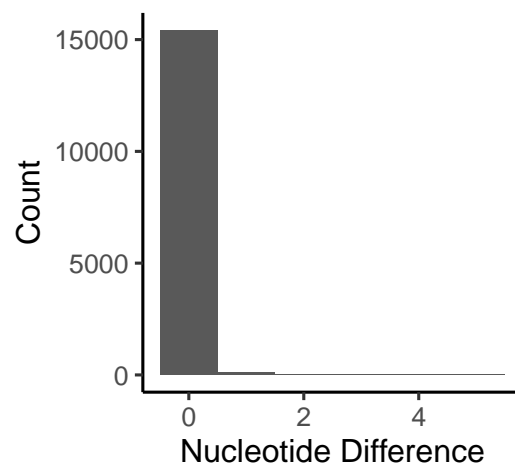
### TRBV6–56\*ap01

11456 sequences assigned  
11316 (98.8%) exact matches, in which:  
11024 unique CDR3  
13 unique J



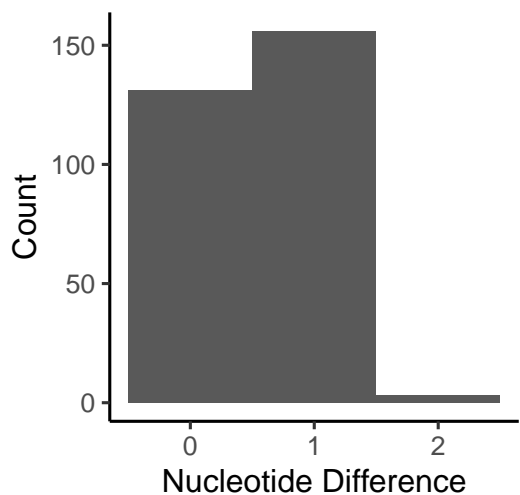
### TRBV7–2\*ap01

15544 sequences assigned  
15423 (99.2%) exact matches, in which:  
15211 unique CDR3  
13 unique J



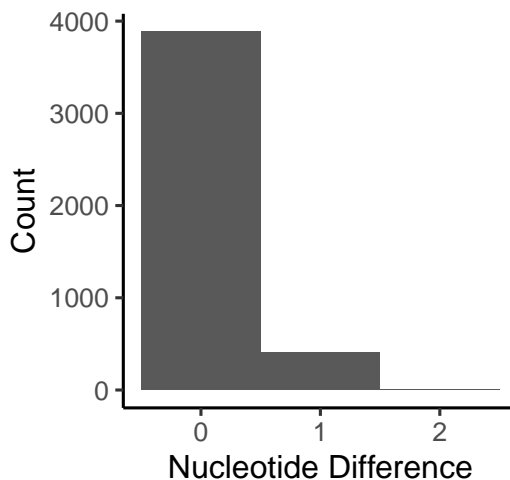
### TRBV6–9\*ap01

290 sequences assigned  
131 (45.2%) exact matches, in which:  
130 unique CDR3  
13 unique J



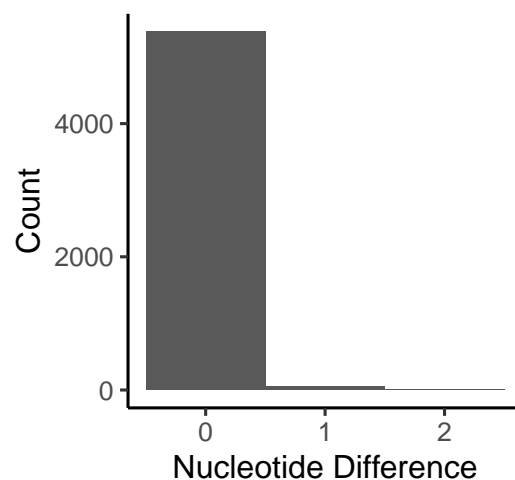
### TRBV6–56\*ap02

4295 sequences assigned  
3885 (90.5%) exact matches, in which:  
3791 unique CDR3  
13 unique J



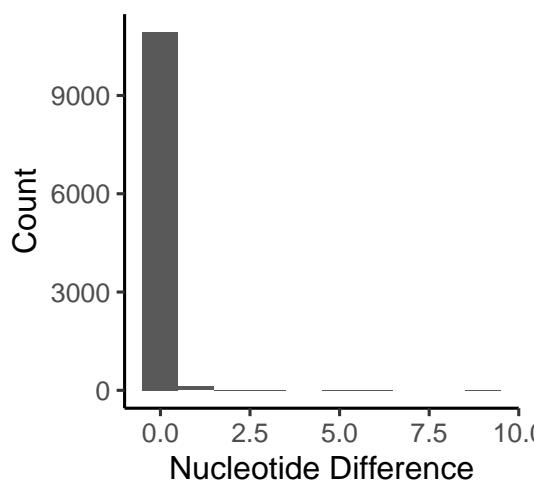
### TRBV7–3\*ap01

5428 sequences assigned  
5380 (99.1%) exact matches, in which:  
5304 unique CDR3  
13 unique J



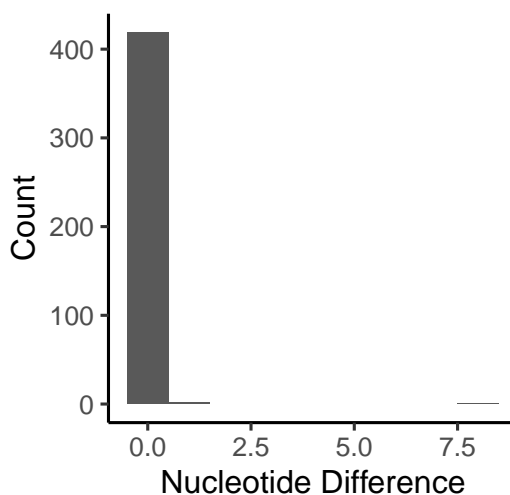
### TRBV6–23\*ap01

11062 sequences assigned  
10937 (98.9%) exact matches, in which:  
10698 unique CDR3  
13 unique J



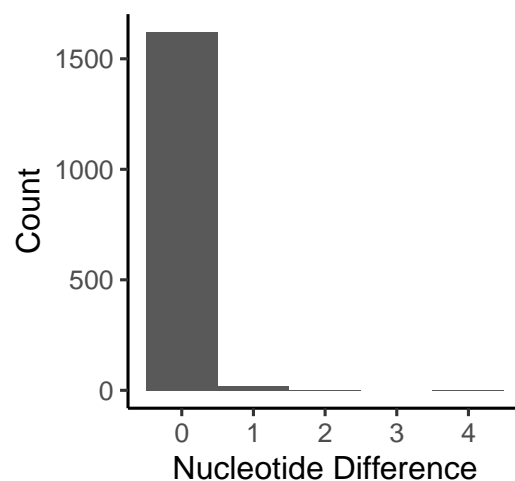
### TRBV7–1\*ap01\_G291C\_

422 sequences assigned  
419 (99.3%) exact matches, in which:  
406 unique CDR3  
13 unique J



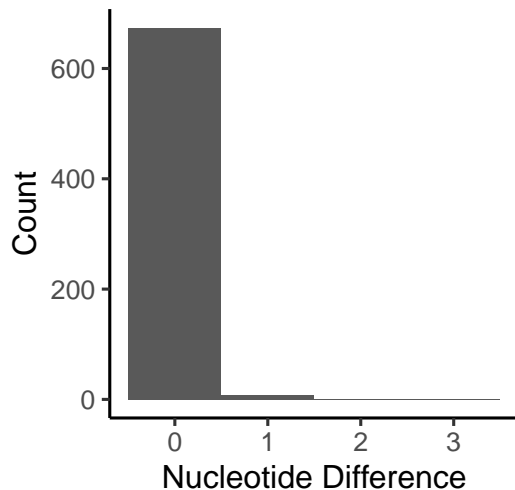
### TRBV7–3\*ap03

1643 sequences assigned  
1621 (98.7%) exact matches, in which:  
1582 unique CDR3  
13 unique J



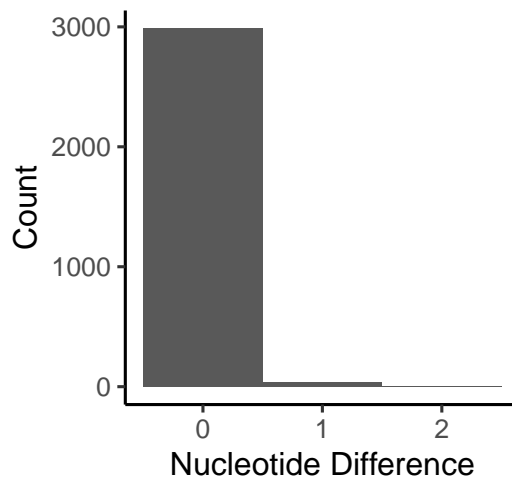
### TRBV7-4\*ap01

684 sequences assigned  
674 (98.5%) exact matches, in which:  
657 unique CDR3  
13 unique J



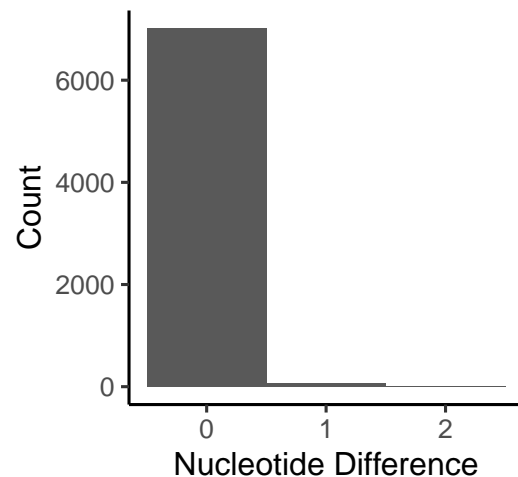
### TRBV7-8\*ap01

3025 sequences assigned  
2987 (98.7%) exact matches, in which:  
2925 unique CDR3  
13 unique J



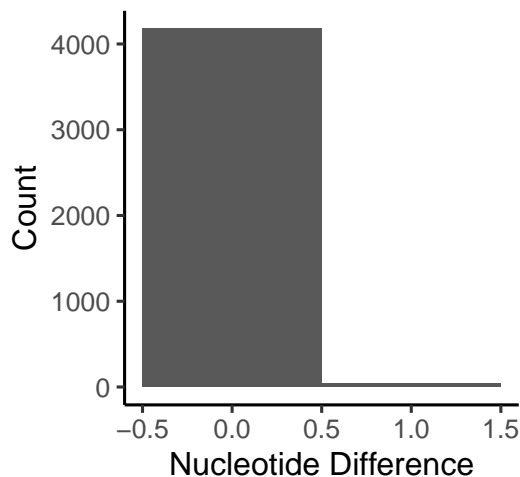
### TRBV29-1\*ap01

7093 sequences assigned  
7014 (98.9%) exact matches, in which:  
6908 unique CDR3  
13 unique J



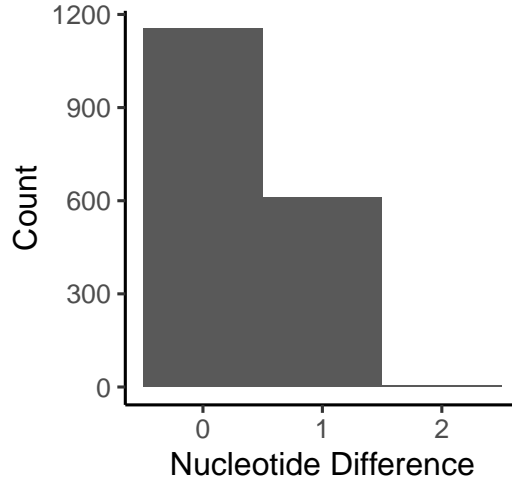
### TRBV7-6\*ap01

4218 sequences assigned  
4178 (99.1%) exact matches, in which:  
4099 unique CDR3  
13 unique J



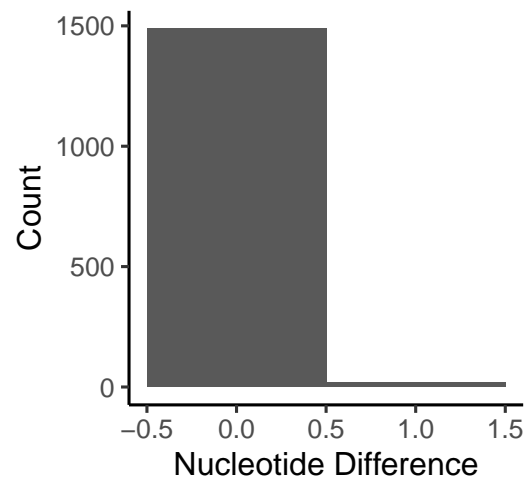
### TRBV7-8\*ap03

1771 sequences assigned  
1154 (65.2%) exact matches, in which:  
1134 unique CDR3  
13 unique J



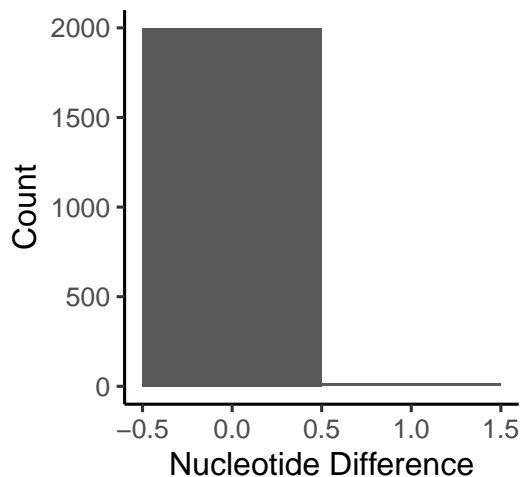
### TRBV29-1\*ap02

1505 sequences assigned  
1488 (98.9%) exact matches, in which:  
1458 unique CDR3  
13 unique J



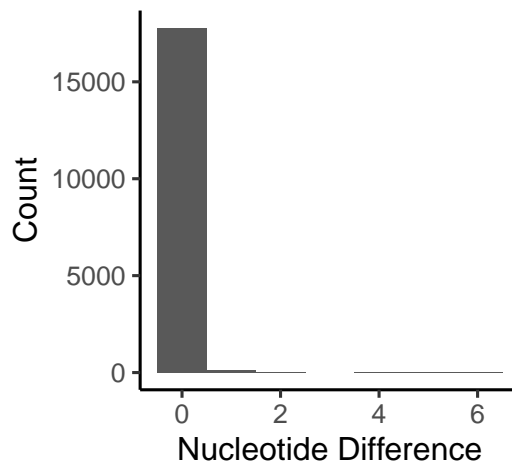
### TRBV7-7\*ap01

2014 sequences assigned  
1999 (99.3%) exact matches, in which:  
1961 unique CDR3  
13 unique J

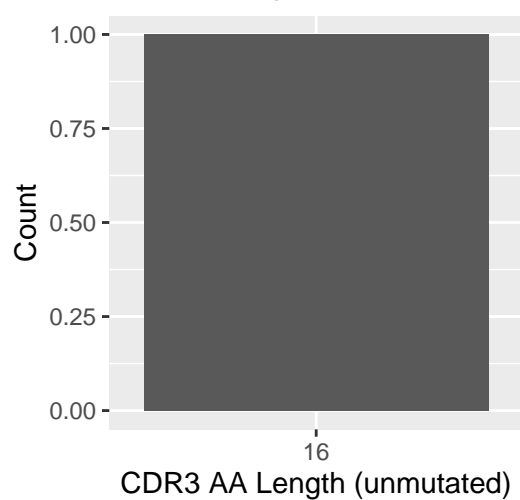


### TRBV7-9\*ap01

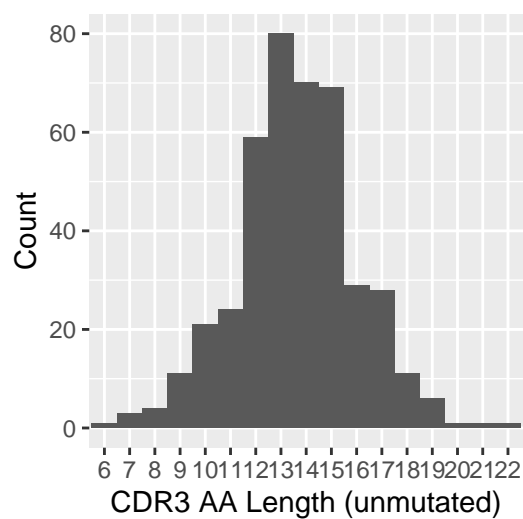
17919 sequences assigned  
17787 (99.3%) exact matches, in which:  
17539 unique CDR3  
13 unique J



TRBV17\*ap01\_A289G



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





[illegible]