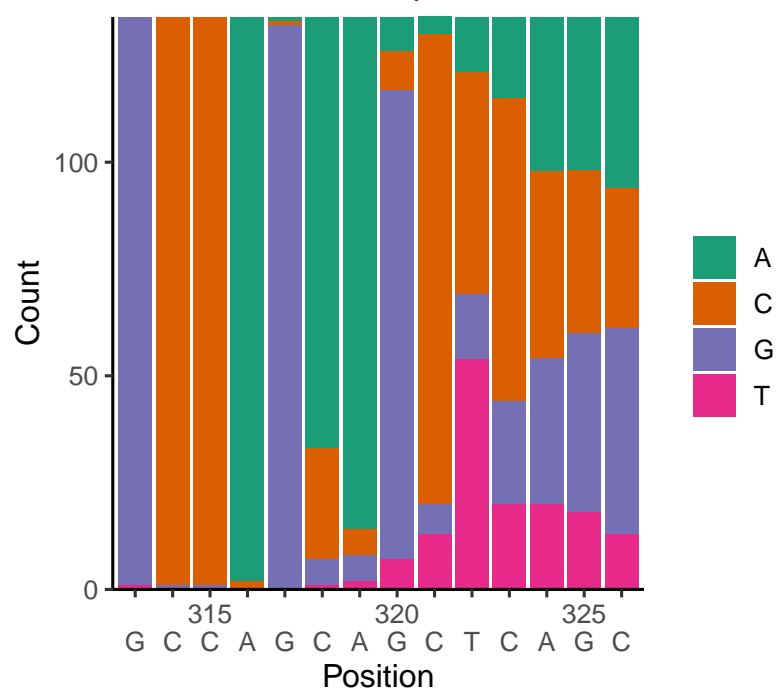
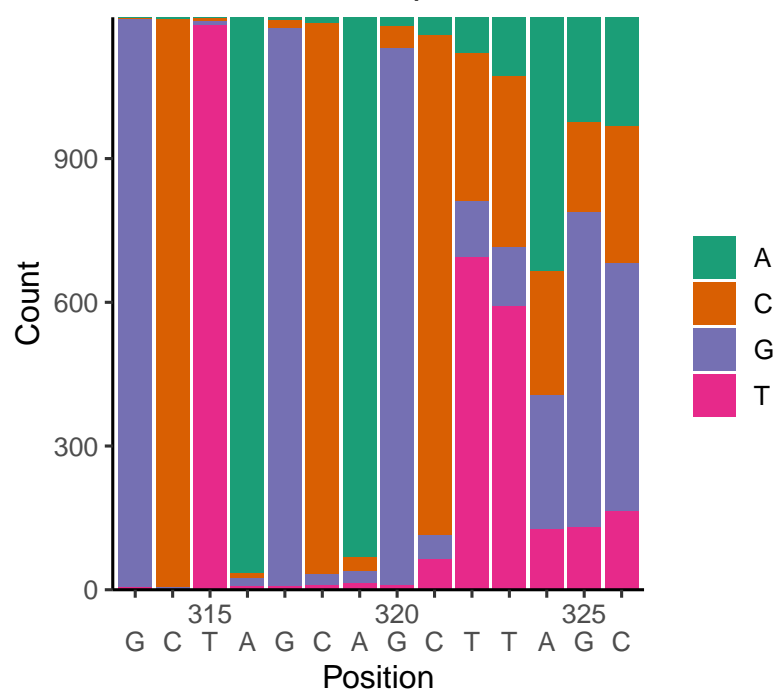


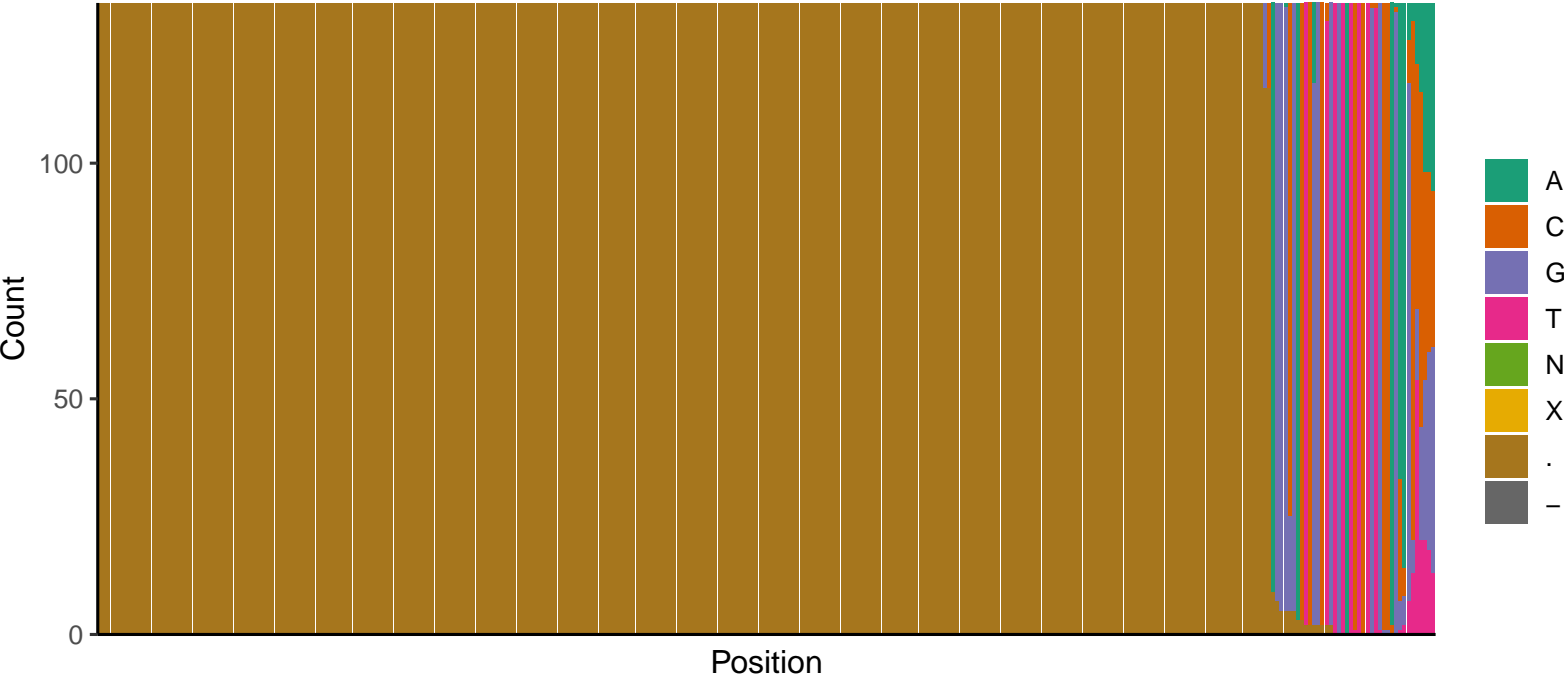
Gene TRBV7-1\*ap01\_T296C



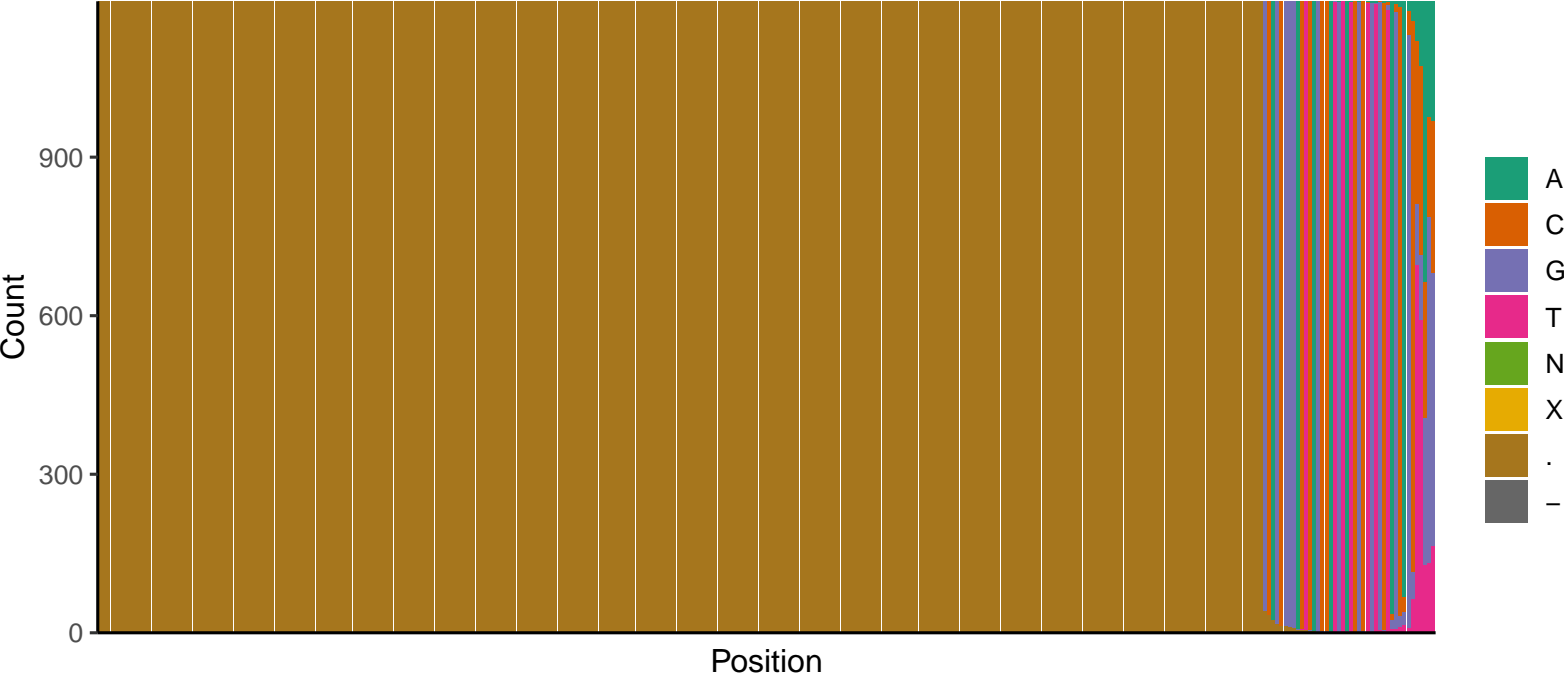
Gene TRBV7-7\*ap01\_C315T



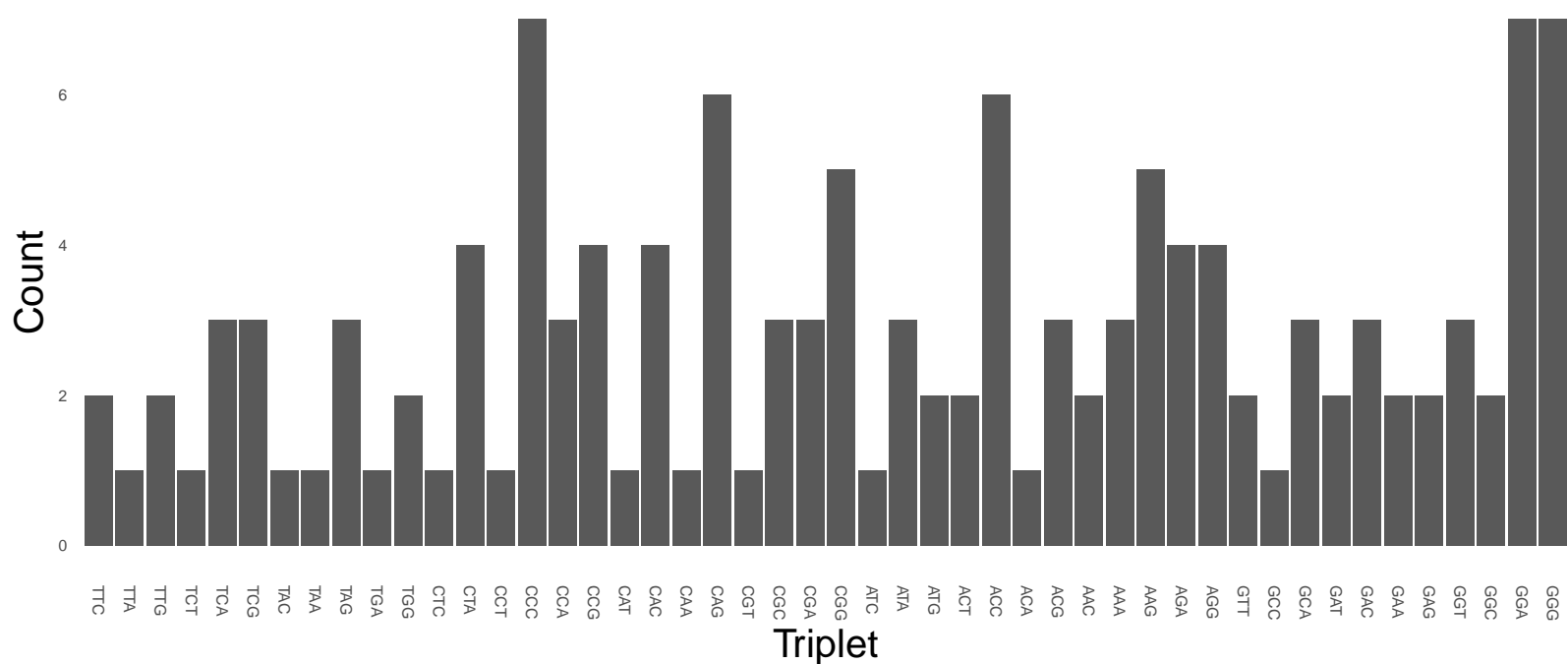
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



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

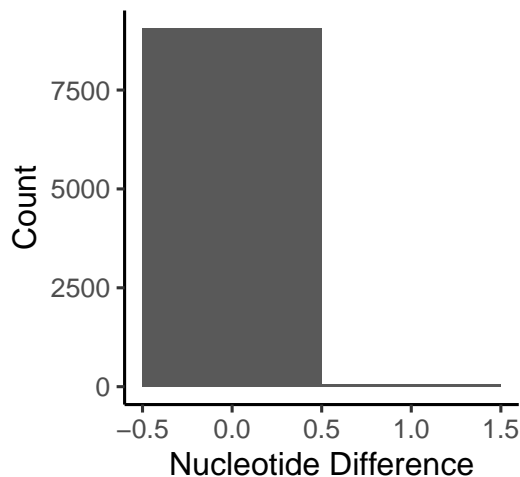


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



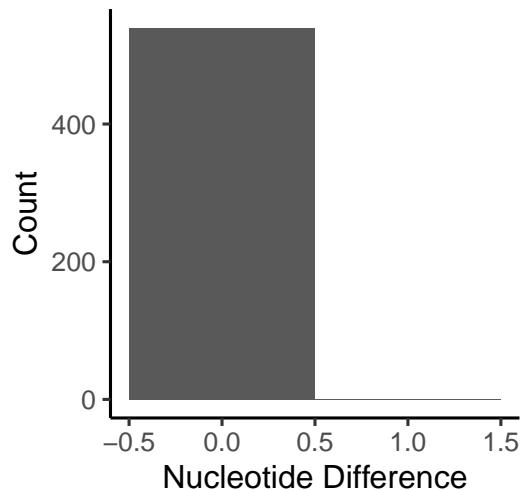
### TRBV20–1\*ap01

9124 sequences assigned  
9058 (99.3%) exact matches, in which:  
8991 unique CDR3  
13 unique J



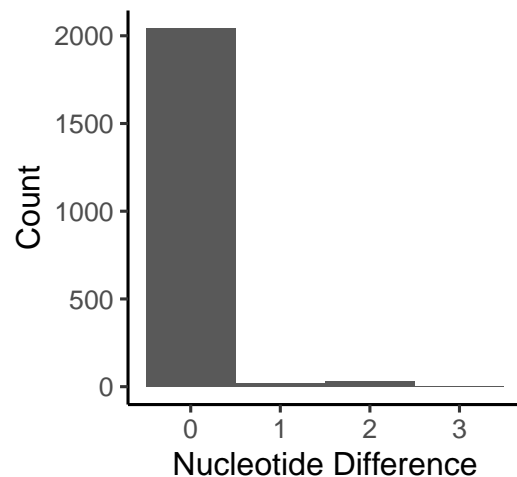
### TRBV10–2\*ap01

541 sequences assigned  
540 (99.8%) exact matches, in which:  
530 unique CDR3  
13 unique J



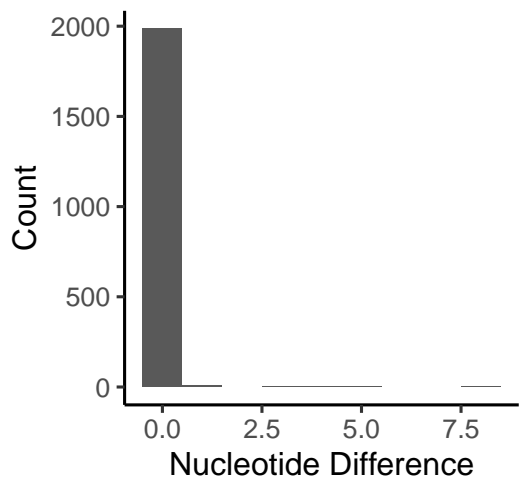
### TRBV13\*ap01

2093 sequences assigned  
2042 (97.6%) exact matches, in which:  
1998 unique CDR3  
13 unique J



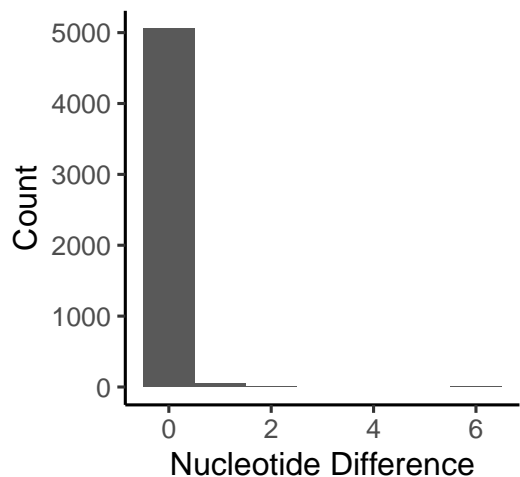
### TRBV10–1\*ap01

2003 sequences assigned  
1986 (99.2%) exact matches, in which:  
1955 unique CDR3  
13 unique J



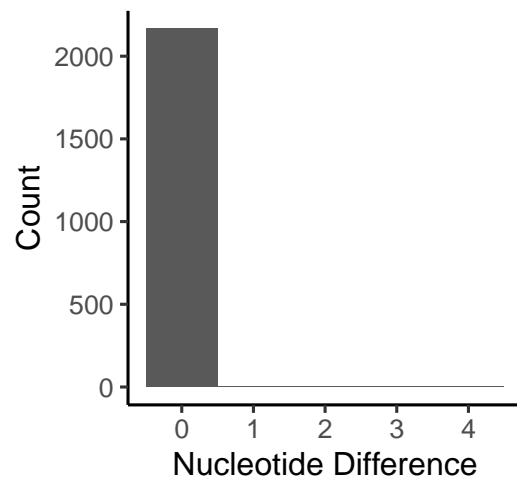
### TRBV10–3\*ap01

5104 sequences assigned  
5055 (99%) exact matches, in which:  
5008 unique CDR3  
13 unique J



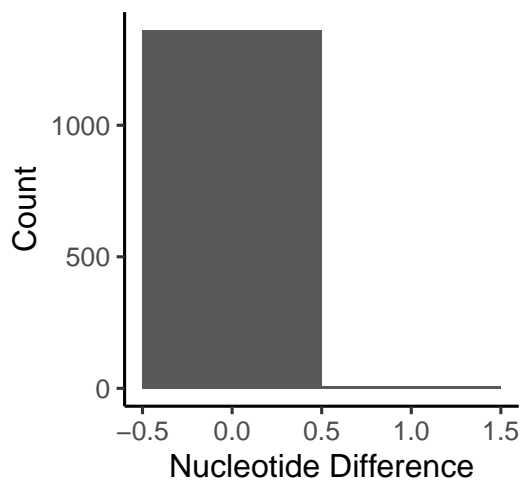
### TRBV14\*ap01

2173 sequences assigned  
2166 (99.7%) exact matches, in which:  
2149 unique CDR3  
13 unique J



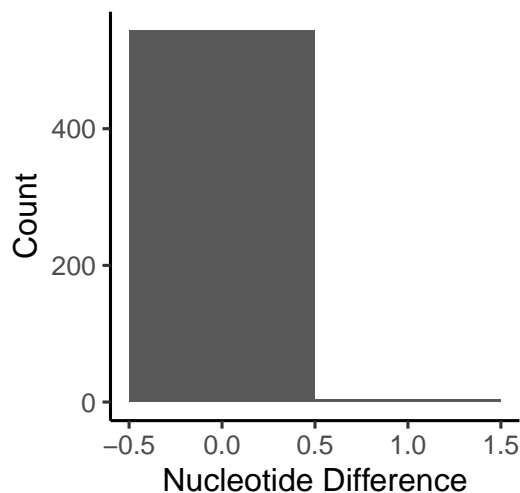
### TRBV20–1\*ap02

1370 sequences assigned  
1362 (99.4%) exact matches, in which:  
1353 unique CDR3  
13 unique J



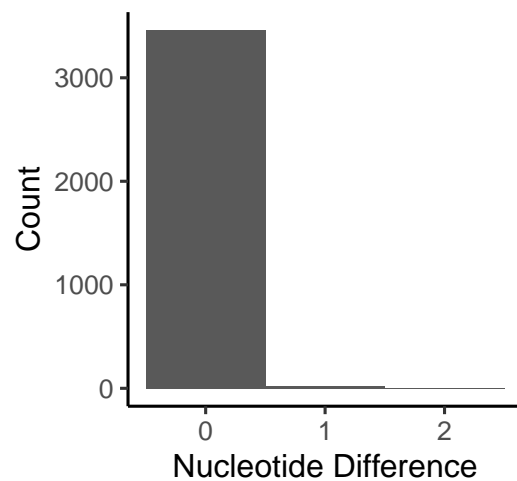
### TRBV1\*ap01

548 sequences assigned  
544 (99.3%) exact matches, in which:  
534 unique CDR3  
13 unique J



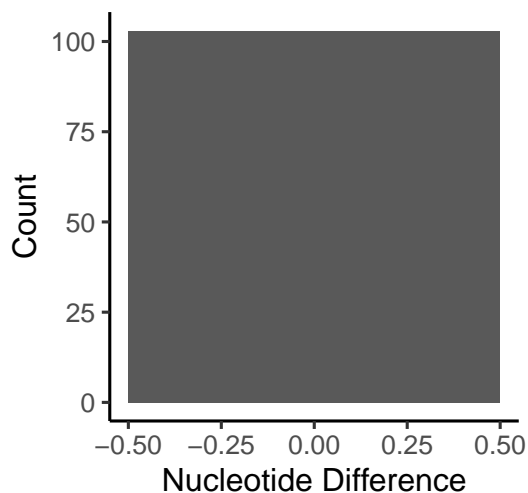
### TRBV15\*ap02

3484 sequences assigned  
3461 (99.3%) exact matches, in which:  
3425 unique CDR3  
13 unique J



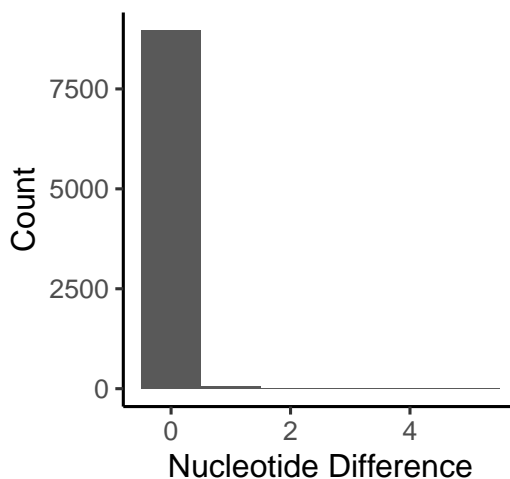
### TRBV16\*ap01

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



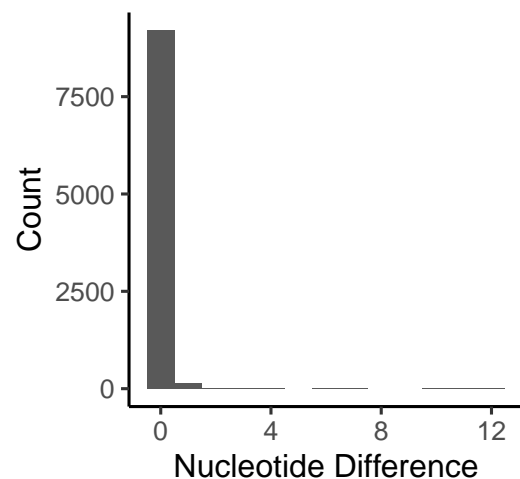
### TRBV2\*ap01

9048 sequences assigned  
8964 (99.1%) exact matches, in which:  
8838 unique CDR3  
13 unique J



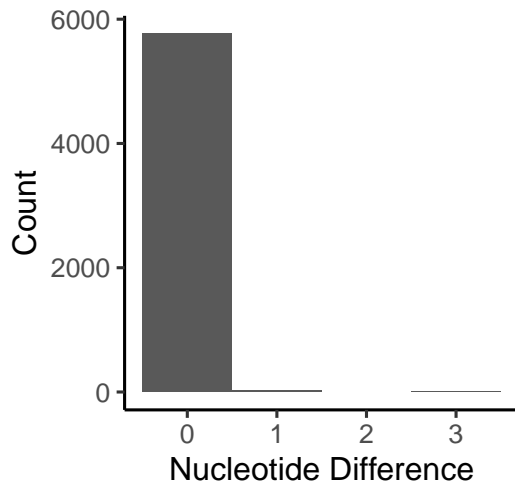
### TRBV30\*ap01

9361 sequences assigned  
9201 (98.3%) exact matches, in which:  
8998 unique CDR3  
13 unique J



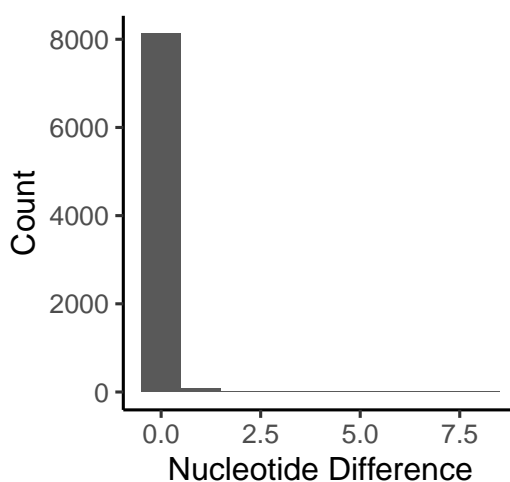
### TRBV18\*ap01

5787 sequences assigned  
5766 (99.6%) exact matches, in which:  
5740 unique CDR3  
13 unique J



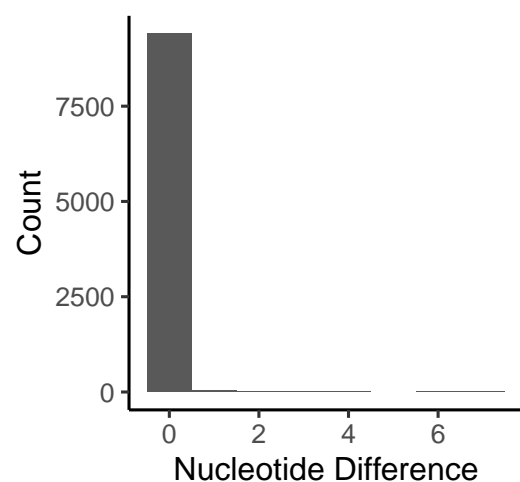
### TRBV27\*ap01

8228 sequences assigned  
8126 (98.8%) exact matches, in which:  
8011 unique CDR3  
13 unique J



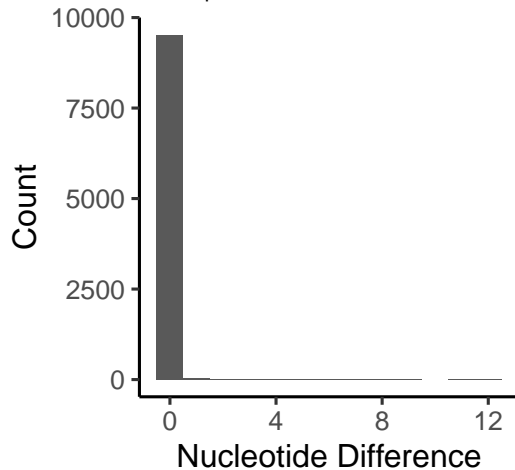
### TRBV9\*ap01

9461 sequences assigned  
9401 (99.4%) exact matches, in which:  
9322 unique CDR3  
13 unique J



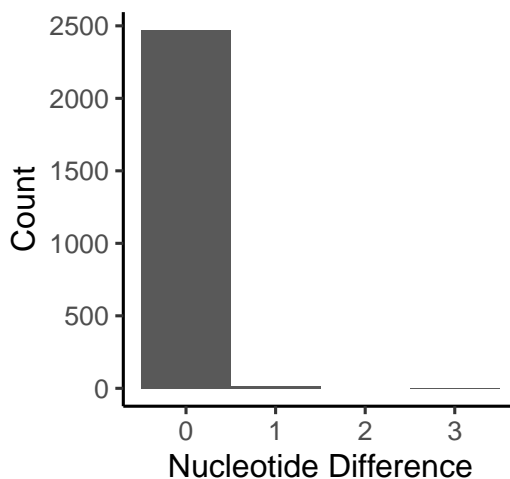
### TRBV19\*ap01

9588 sequences assigned  
9524 (99.3%) exact matches, in which:  
9482 unique CDR3  
13 unique J



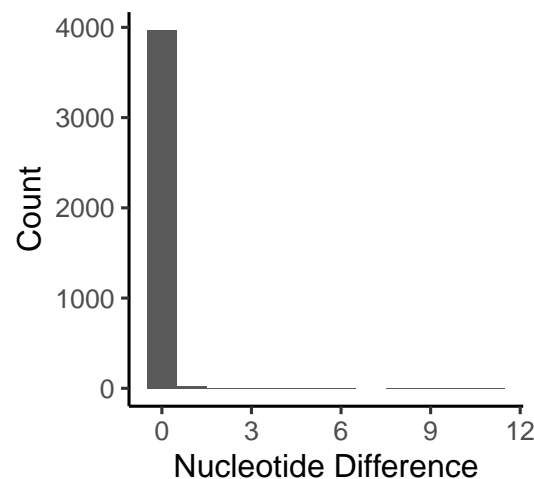
### TRBV28\*ap01

2488 sequences assigned  
2471 (99.3%) exact matches, in which:  
2456 unique CDR3  
13 unique J



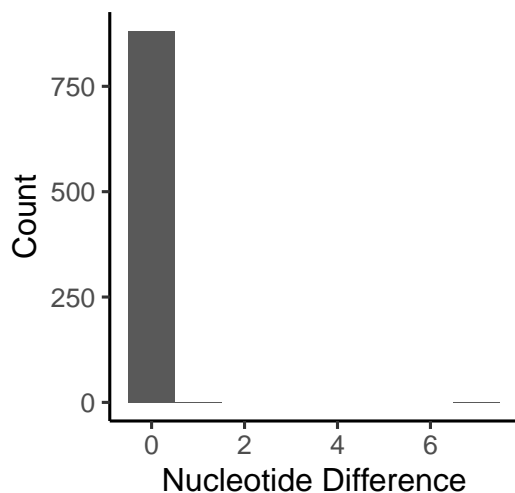
### TRBV21-1\*ap01

4018 sequences assigned  
3970 (98.8%) exact matches, in which:  
3949 unique CDR3  
13 unique J



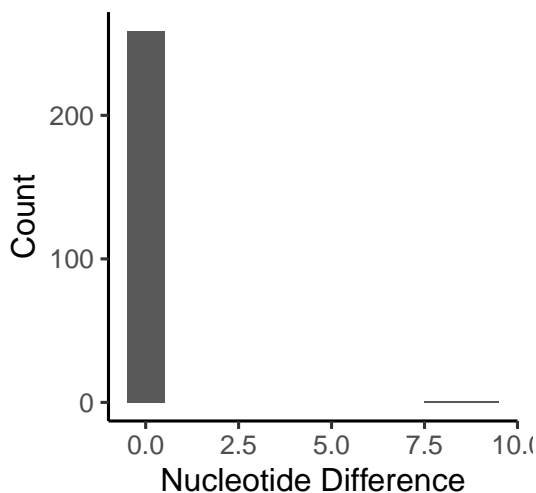
### TRBV11-1\*ap01

884 sequences assigned  
882 (99.8%) exact matches, in which:  
878 unique CDR3  
13 unique J



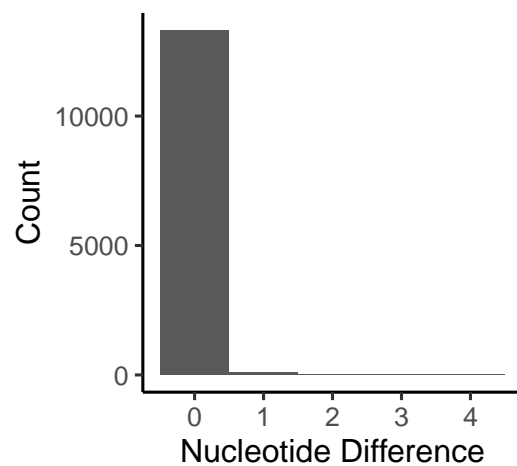
### TRBV12-1\*ap01

261 sequences assigned  
259 (99.2%) exact matches, in which:  
258 unique CDR3  
13 unique J



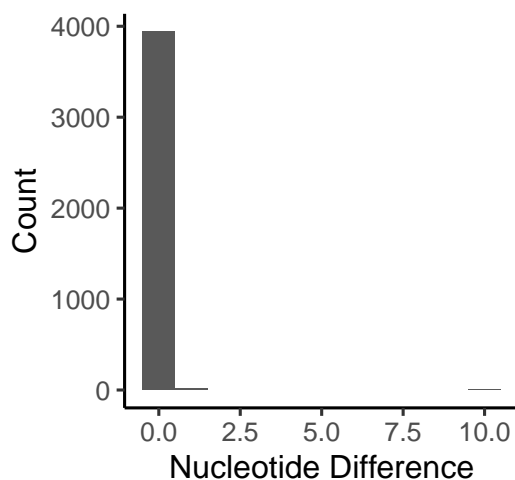
### TRBV12-34\*ap01

13434 sequences assigned  
13319 (99.1%) exact matches, in which:  
13190 unique CDR3  
13 unique J



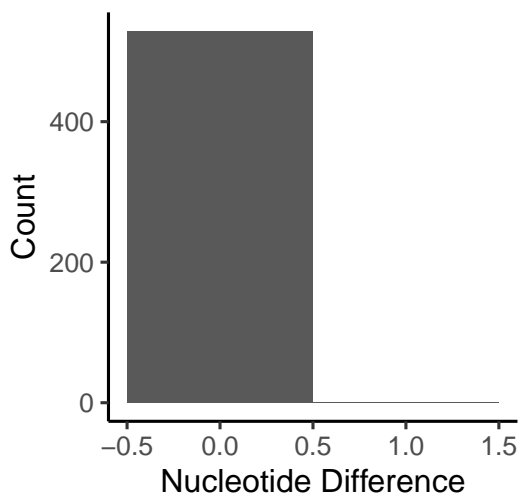
### TRBV11-2\*ap01

3963 sequences assigned  
3940 (99.4%) exact matches, in which:  
3924 unique CDR3  
13 unique J



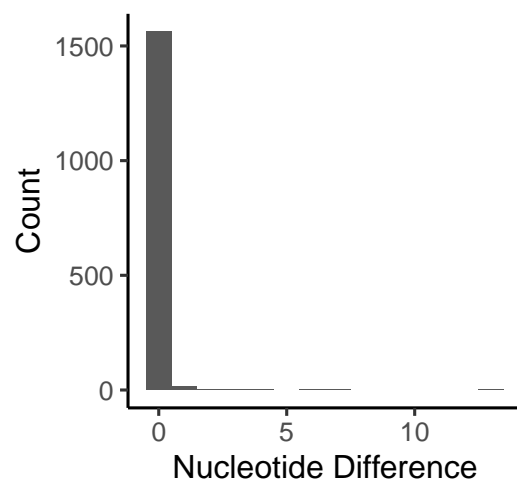
### TRBV12-2\*ap01

530 sequences assigned  
529 (99.8%) exact matches, in which:  
524 unique CDR3  
13 unique J



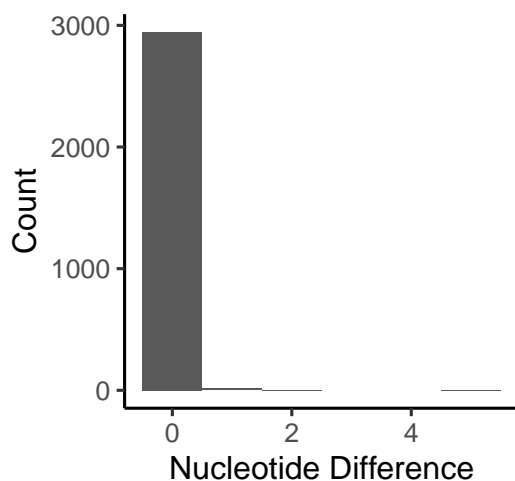
### TRBV23-1\*ap01

1587 sequences assigned  
1562 (98.4%) exact matches, in which:  
1550 unique CDR3  
13 unique J



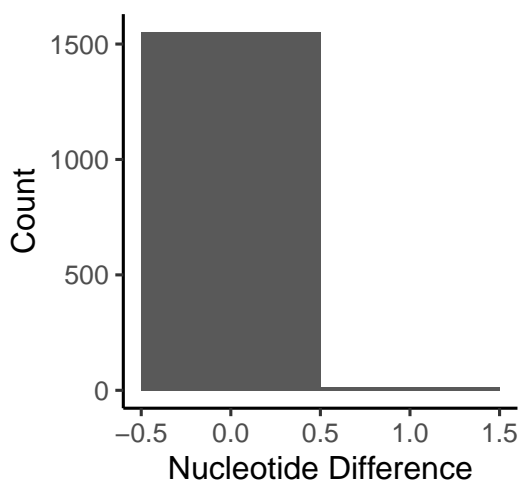
### TRBV11-3\*ap01

2961 sequences assigned  
2945 (99.5%) exact matches, in which:  
2930 unique CDR3  
13 unique J



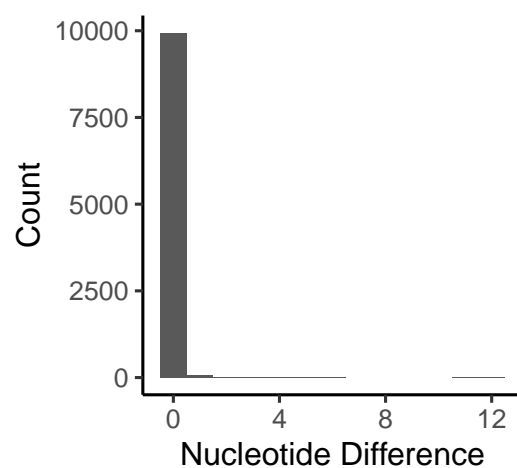
### TRBV12-5\*ap01

1567 sequences assigned  
1552 (99%) exact matches, in which:  
1543 unique CDR3  
13 unique J



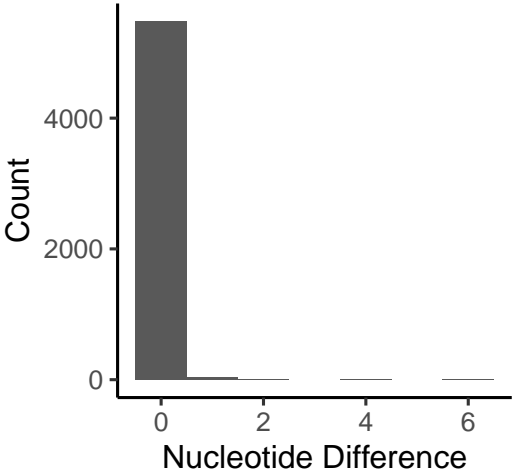
### TRBV3-12\*ap01

10032 sequences assigned  
9941 (99.1%) exact matches, in which:  
9813 unique CDR3  
13 unique J



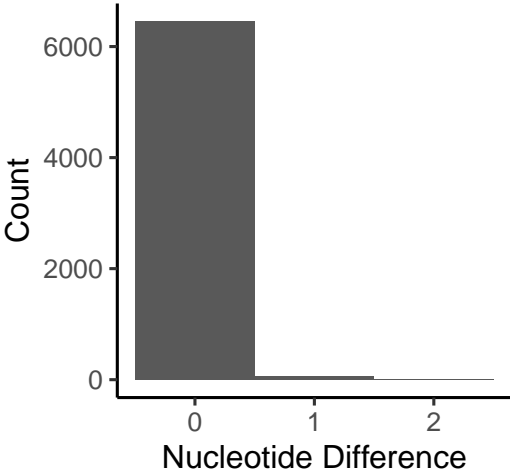
TRBV4-1\*ap01

5520 sequences assigned  
5479 (99.3%) exact matches, in which:  
5400 unique CDR3  
13 unique J



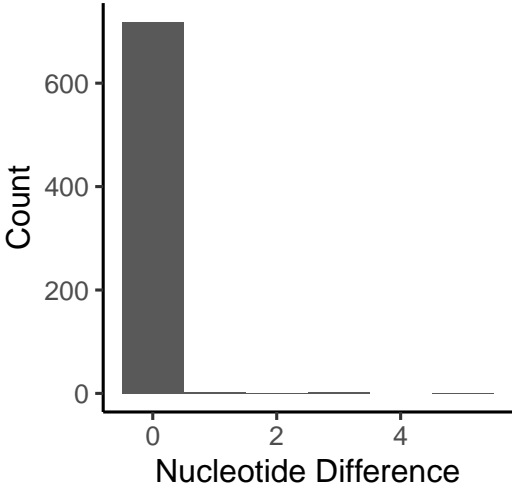
TRBV4-3\*ap01

6512 sequences assigned  
6453 (99.1%) exact matches, in which:  
6379 unique CDR3  
13 unique J



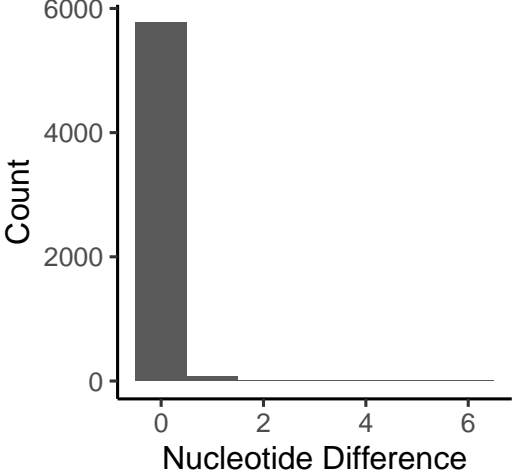
TRBV5-3\*ap01

725 sequences assigned  
719 (99.2%) exact matches, in which:  
713 unique CDR3  
13 unique J



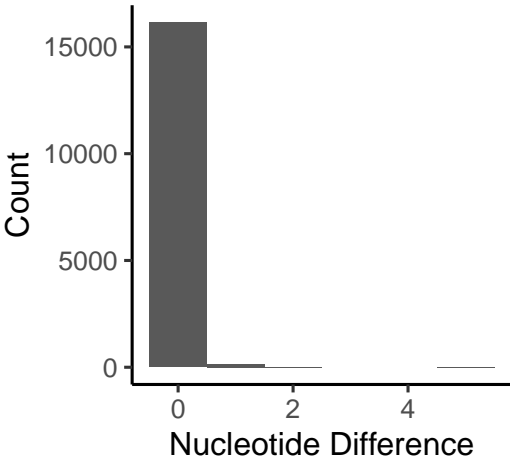
TRBV24-1\*ap01

5846 sequences assigned  
5770 (98.7%) exact matches, in which:  
5702 unique CDR3  
13 unique J



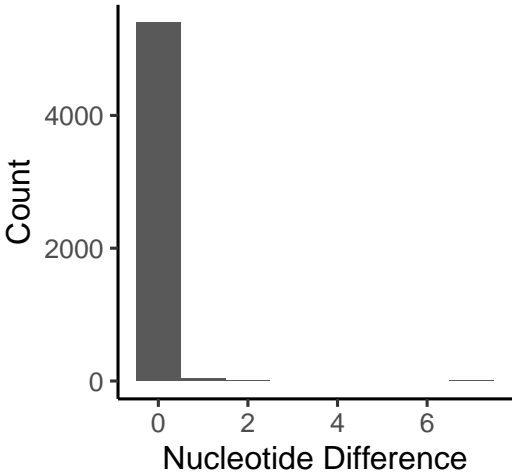
TRBV5-1\*ap01

16301 sequences assigned  
16144 (99%) exact matches, in which:  
15900 unique CDR3  
13 unique J



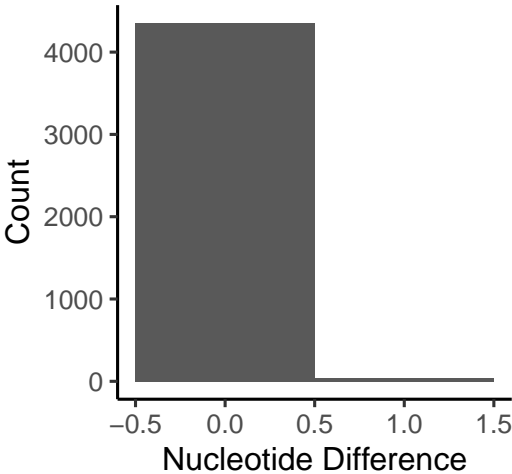
TRBV5-4\*ap01

5434 sequences assigned  
5396 (99.3%) exact matches, in which:  
5329 unique CDR3  
13 unique J



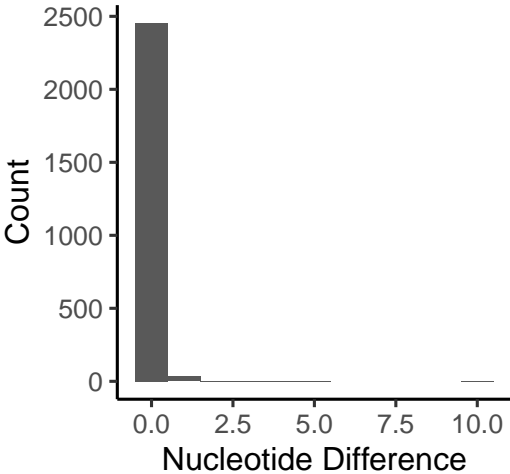
TRBV4-2\*ap01

4390 sequences assigned  
4353 (99.2%) exact matches, in which:  
4295 unique CDR3  
13 unique J



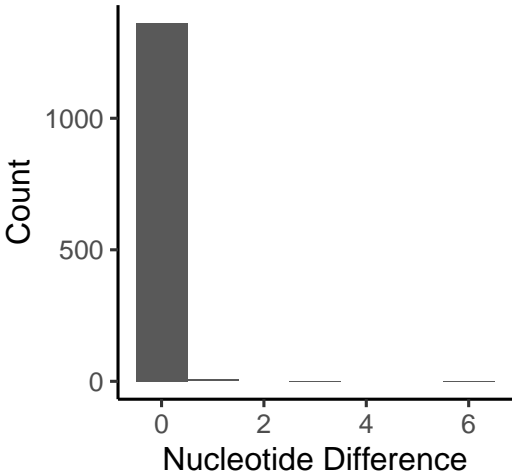
TRBV25-1\*ap01

2493 sequences assigned  
2454 (98.4%) exact matches, in which:  
2409 unique CDR3  
13 unique J



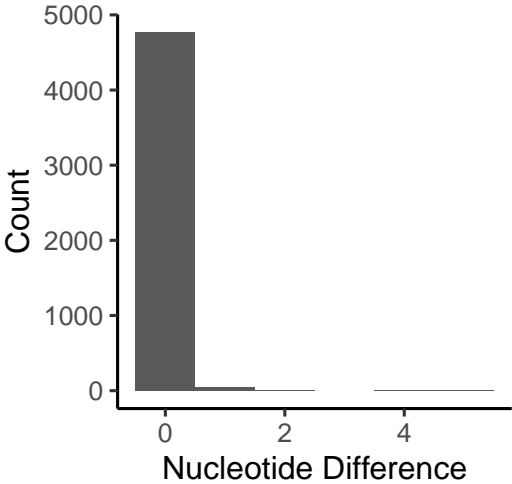
TRBV5-5\*ap01

1371 sequences assigned  
1362 (99.3%) exact matches, in which:  
1353 unique CDR3  
13 unique J



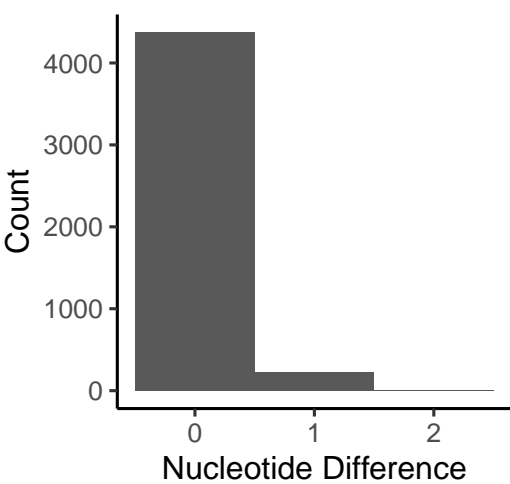
TRBV5-6\*ap01

4821 sequences assigned  
4767 (98.9%) exact matches, in which:  
4665 unique CDR3  
13 unique J



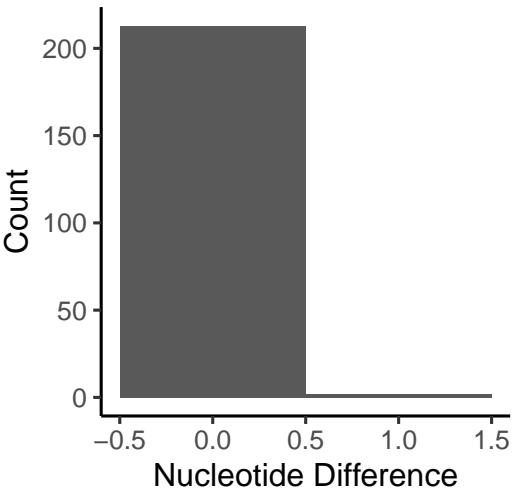
TRBV6-1\*ap01

4605 sequences assigned  
4373 (95%) exact matches, in which:  
4294 unique CDR3  
13 unique J



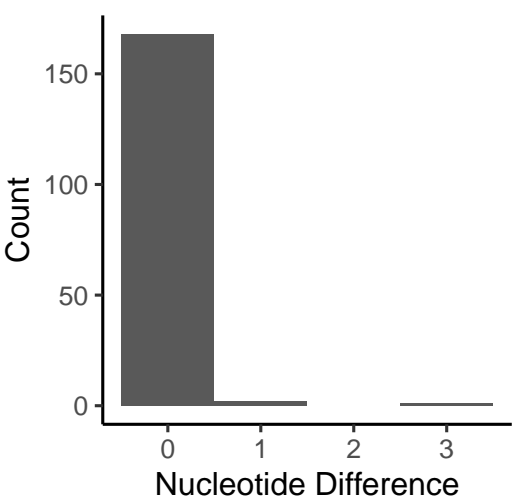
TRBV6-8\*ap01

215 sequences assigned  
213 (99.1%) exact matches, in which:  
212 unique CDR3  
13 unique J



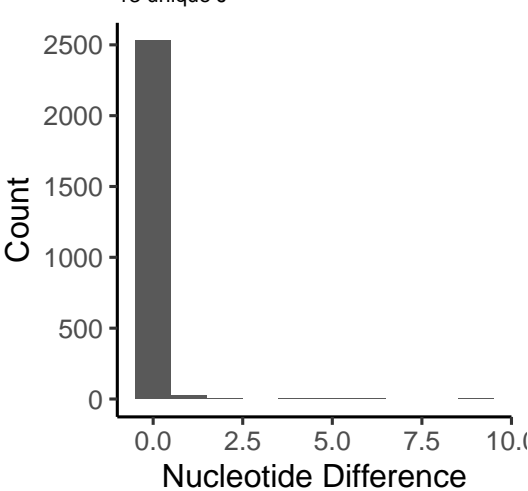
TRBV5-7\*ap01

171 sequences assigned  
168 (98.2%) exact matches, in which:  
166 unique CDR3  
13 unique J



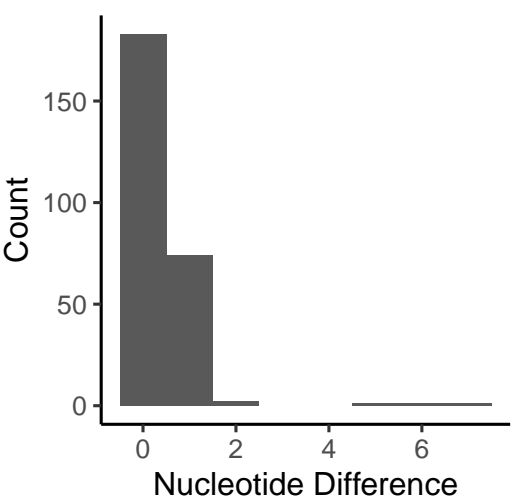
TRBV6-4\*ap01

2560 sequences assigned  
2529 (98.8%) exact matches, in which:  
2512 unique CDR3  
13 unique J



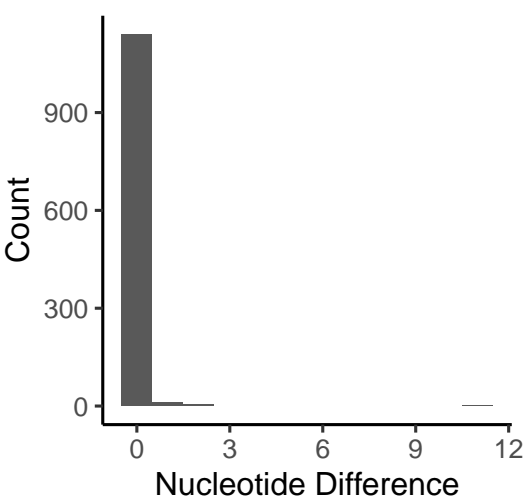
TRBV6-9\*ap01

262 sequences assigned  
183 (69.8%) exact matches, in which:  
182 unique CDR3  
13 unique J



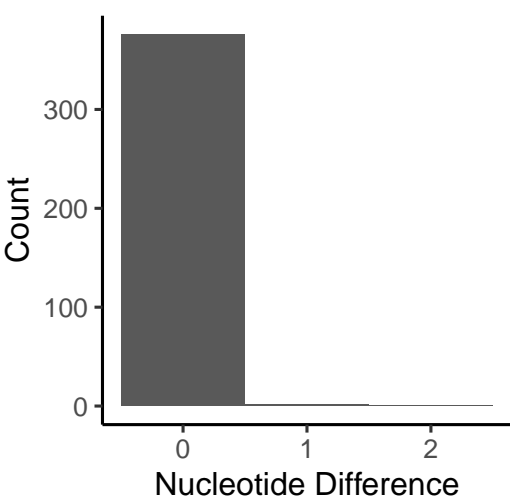
TRBV5-8\*ap01

1159 sequences assigned  
1140 (98.4%) exact matches, in which:  
1135 unique CDR3  
13 unique J



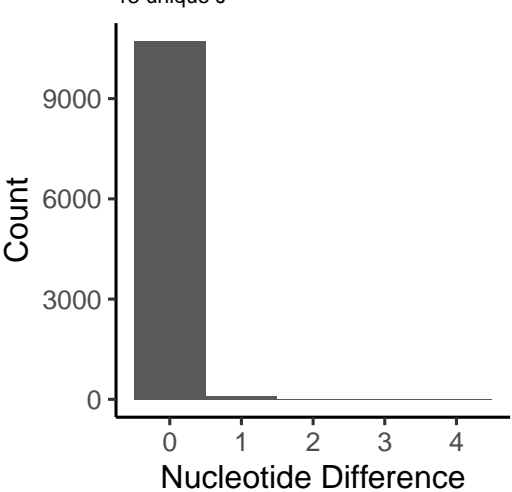
TRBV6-7\*ap01

379 sequences assigned  
376 (99.2%) exact matches, in which:  
369 unique CDR3  
13 unique J



TRBV6-23\*ap01

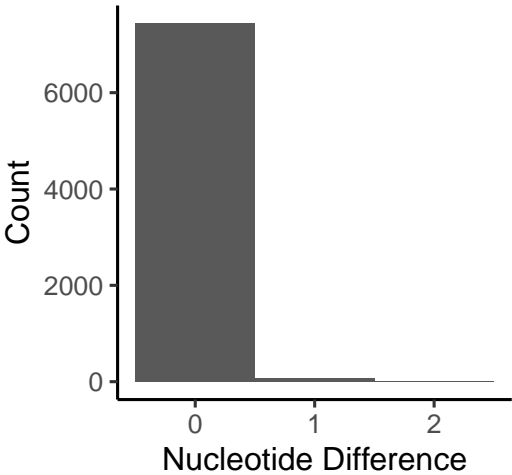
10826 sequences assigned  
10723 (99%) exact matches, in which:  
10530 unique CDR3  
13 unique J





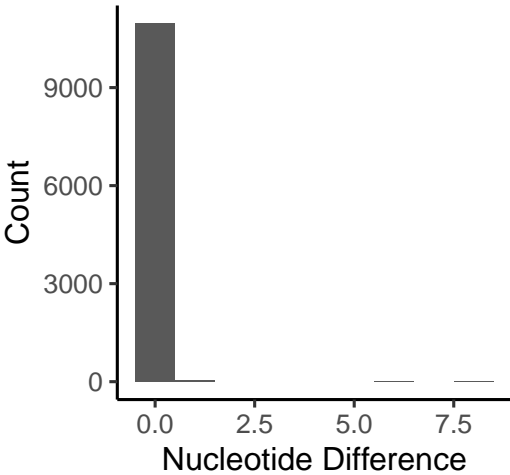
TRBV6-56\*ap01

7502 sequences assigned  
7438 (99.1%) exact matches, in which:  
7291 unique CDR3  
13 unique J



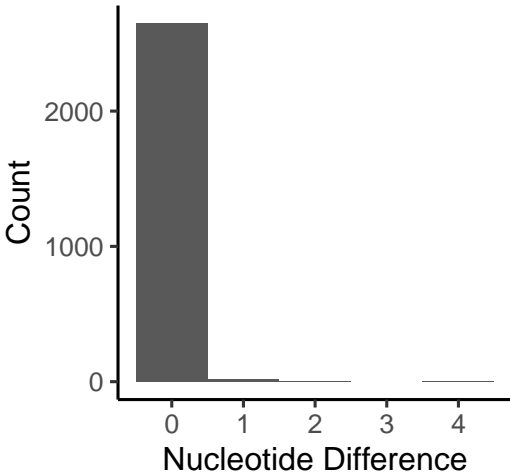
TRBV7-2\*ap01

11021 sequences assigned  
10964 (99.5%) exact matches, in which:  
10897 unique CDR3  
13 unique J



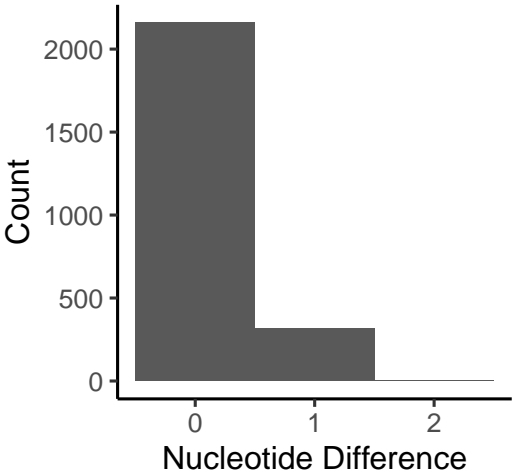
TRBV7-6\*ap01

2665 sequences assigned  
2648 (99.4%) exact matches, in which:  
2622 unique CDR3  
13 unique J



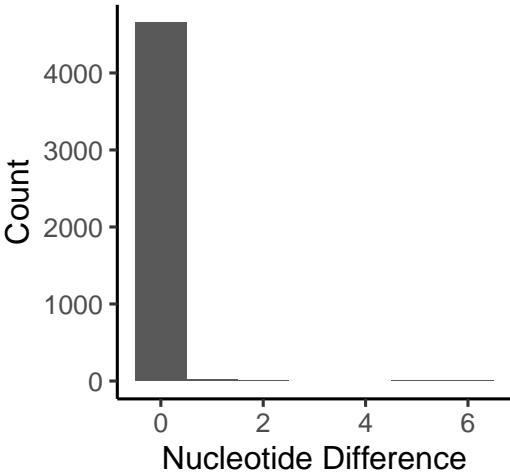
TRBV6-56\*ap02

2478 sequences assigned  
2159 (87.1%) exact matches, in which:  
2124 unique CDR3  
13 unique J



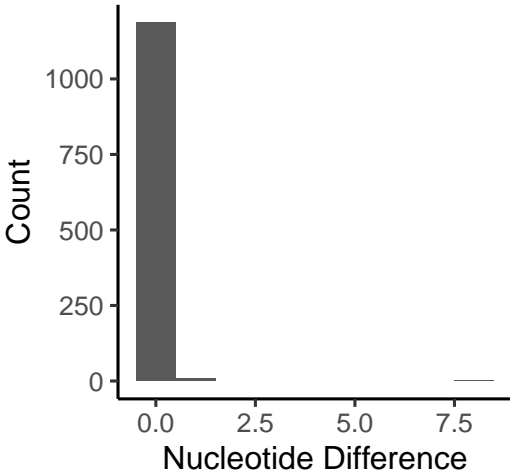
TRBV7-3\*ap01

4679 sequences assigned  
4652 (99.4%) exact matches, in which:  
4625 unique CDR3  
13 unique J



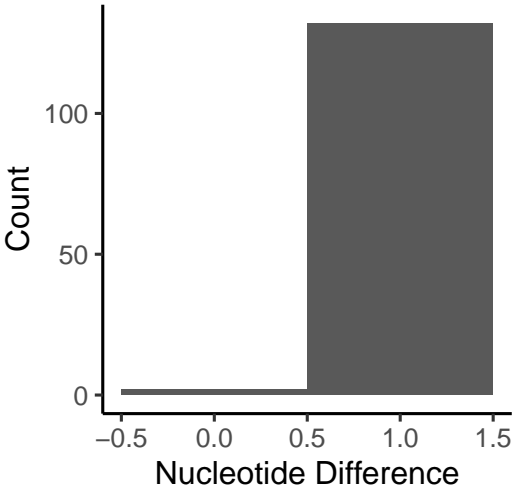
TRBV7-7\*ap01\_C315T

1195 sequences assigned  
1186 (99.2%) exact matches, in which:  
1178 unique CDR3  
13 unique J



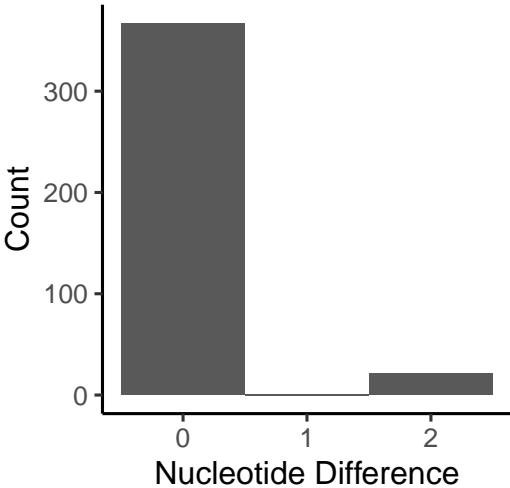
TRBV7-1\*ap01\_T296C

134 sequences assigned  
2 (1.5%) exact matches, in which:  
2 unique CDR3  
2 unique J



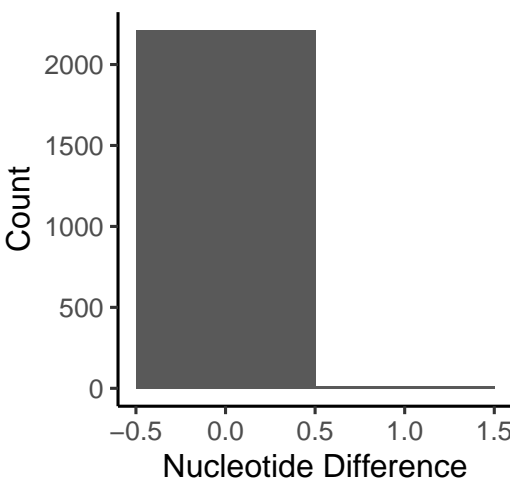
TRBV7-4\*ap01

389 sequences assigned  
367 (94.3%) exact matches, in which:  
365 unique CDR3  
13 unique J



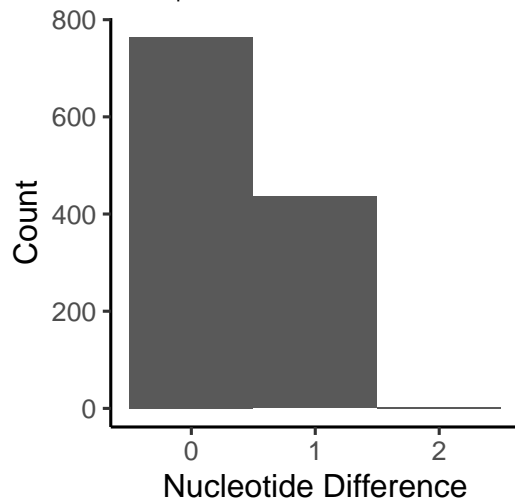
TRBV7-8\*ap01

2227 sequences assigned  
2213 (99.4%) exact matches, in which:  
2193 unique CDR3  
13 unique J



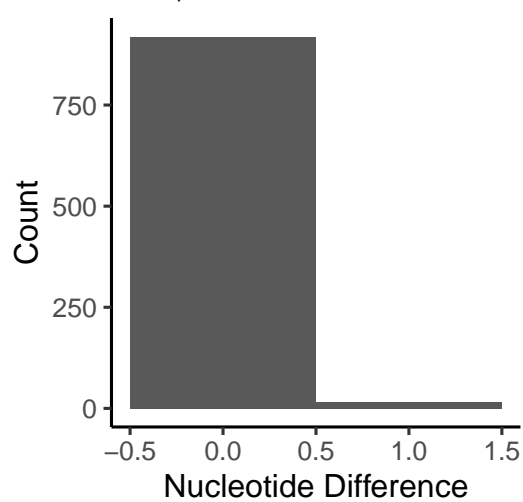
### TRBV7–8\*ap03

1204 sequences assigned  
765 (63.5%) exact matches, in which:  
759 unique CDR3  
13 unique J



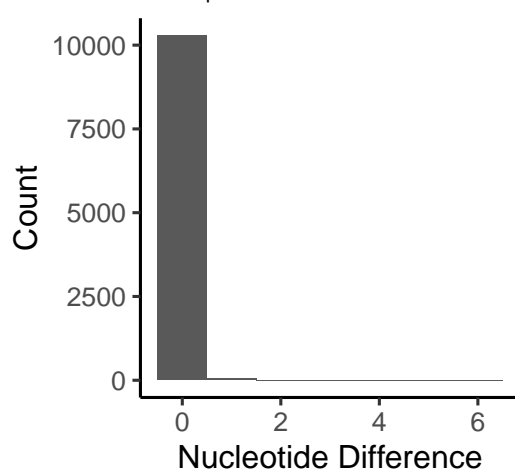
### TRBV29–1\*ap02

935 sequences assigned  
919 (98.3%) exact matches, in which:  
902 unique CDR3  
13 unique J



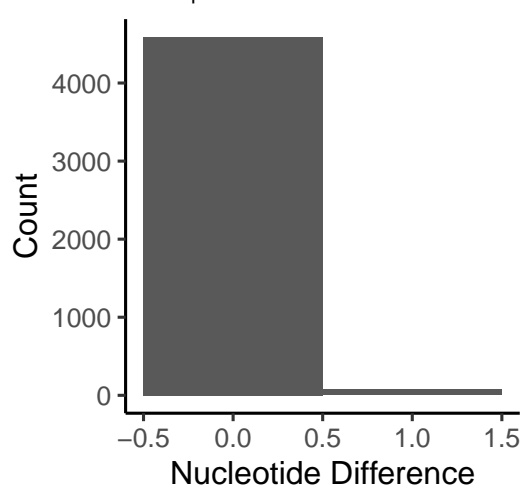
### TRBV7–9\*ap01

10347 sequences assigned  
10288 (99.4%) exact matches, in which:  
10208 unique CDR3  
13 unique J

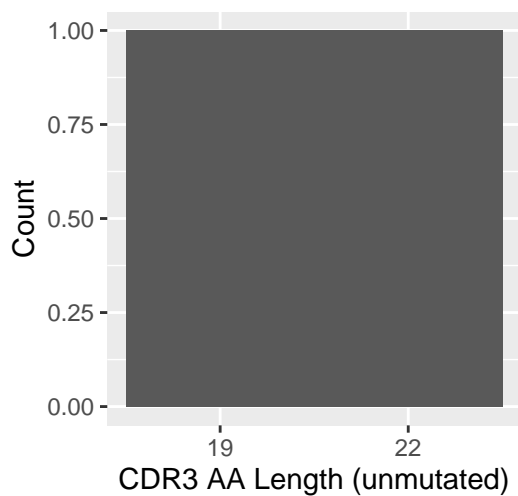


### TRBV29–1\*ap01

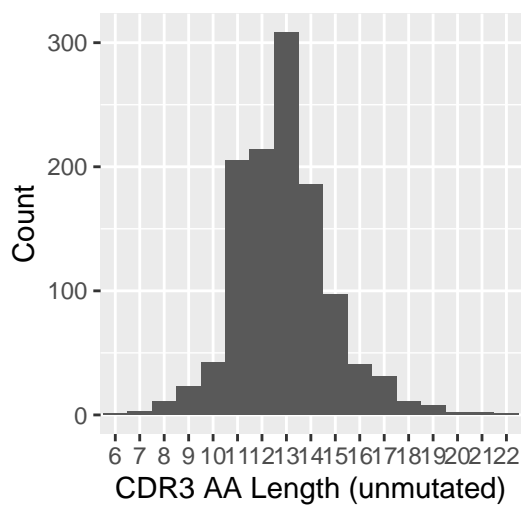
4662 sequences assigned  
4589 (98.4%) exact matches, in which:  
4482 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]