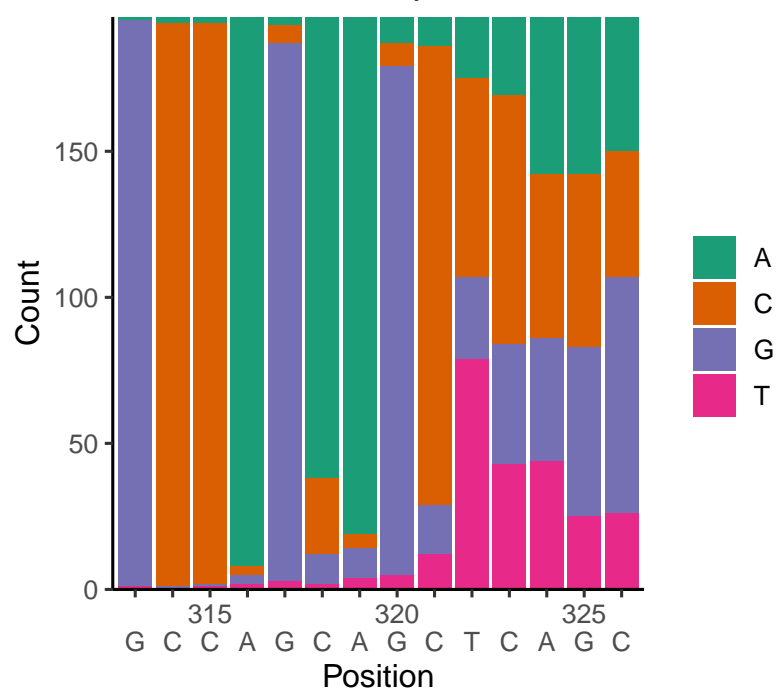
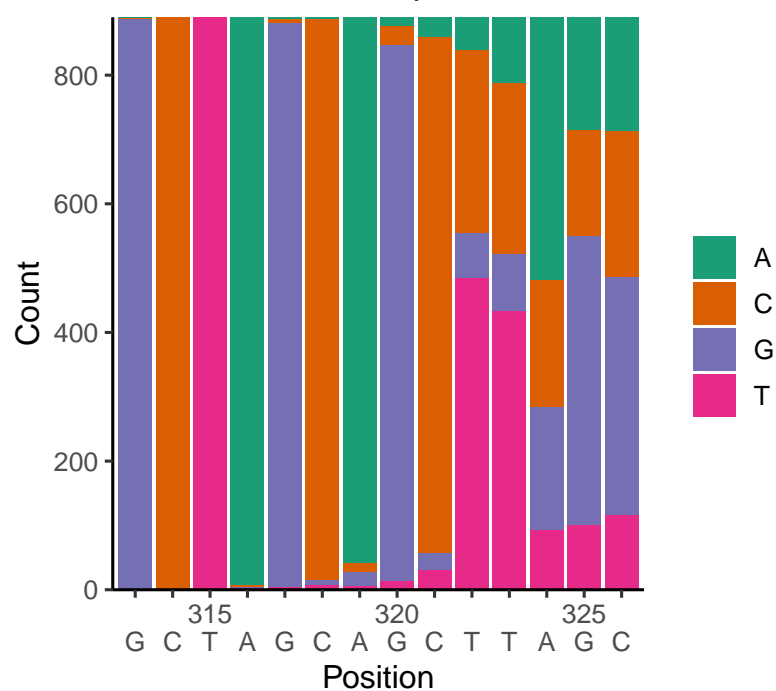


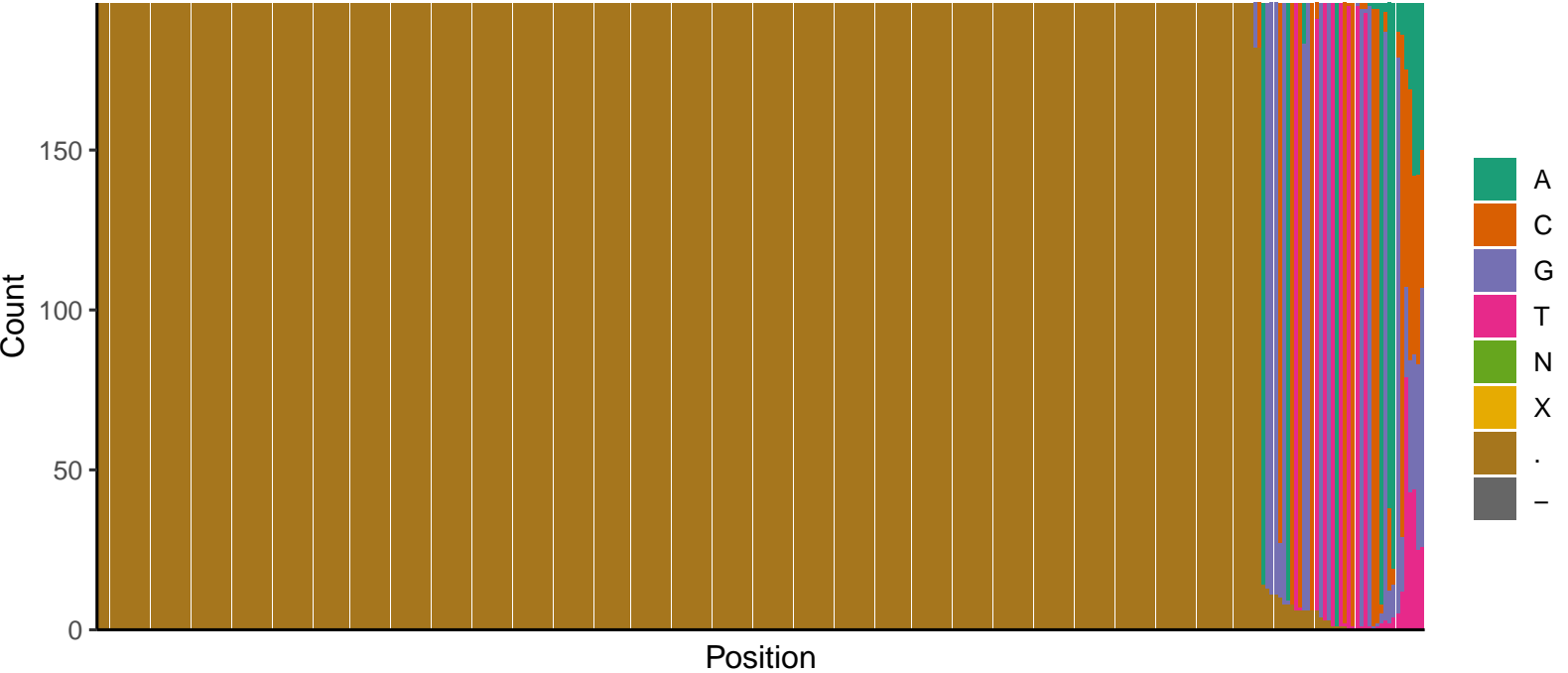
Gene TRBV7-1\*ap01\_T296C



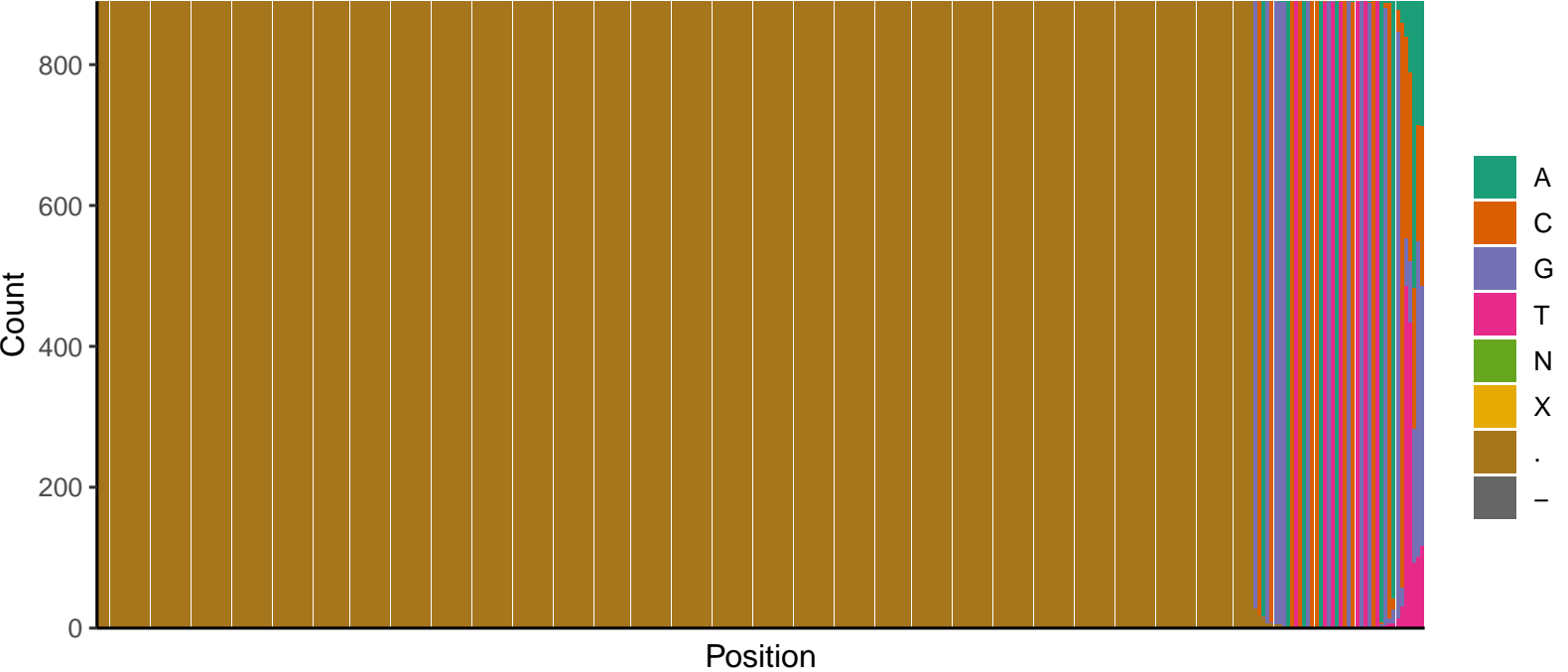
Gene TRBV7-7\*ap01\_C315T



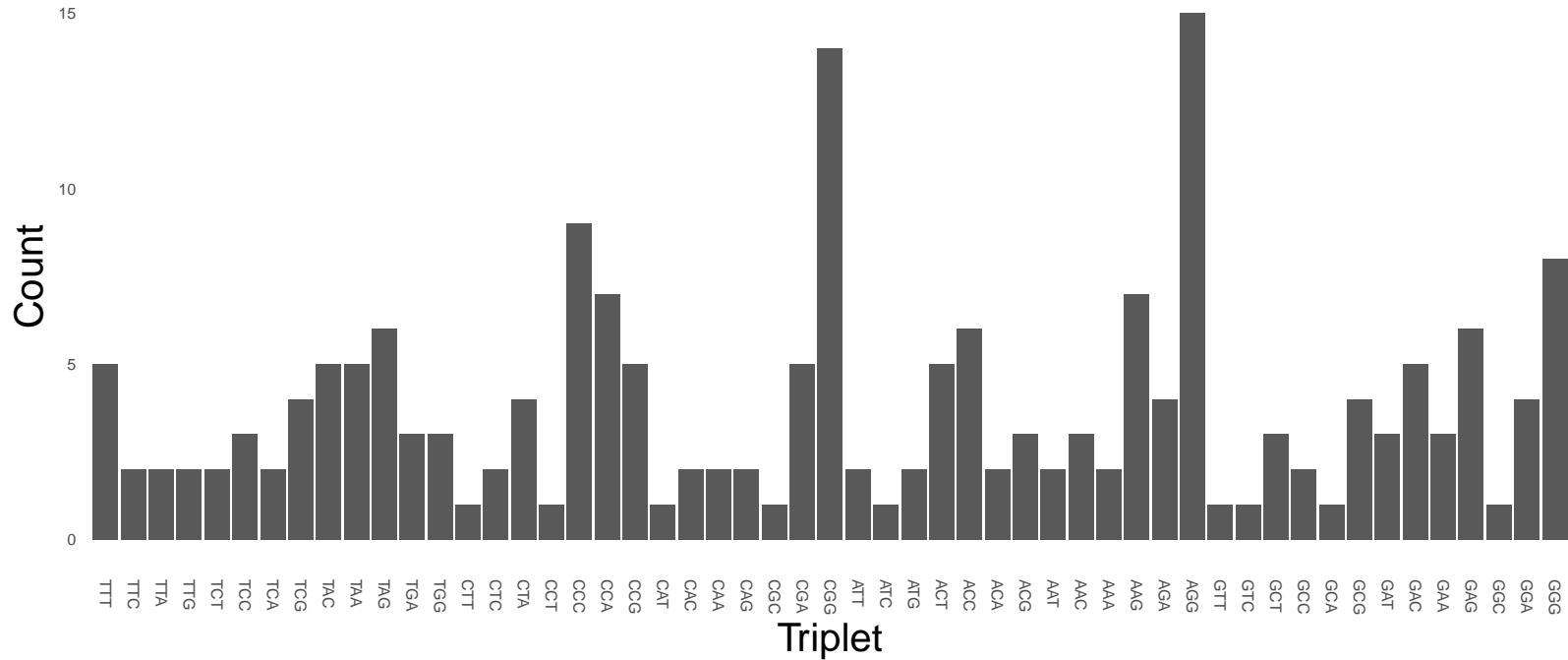
Gene TRBV7-1\*ap01\_T296C



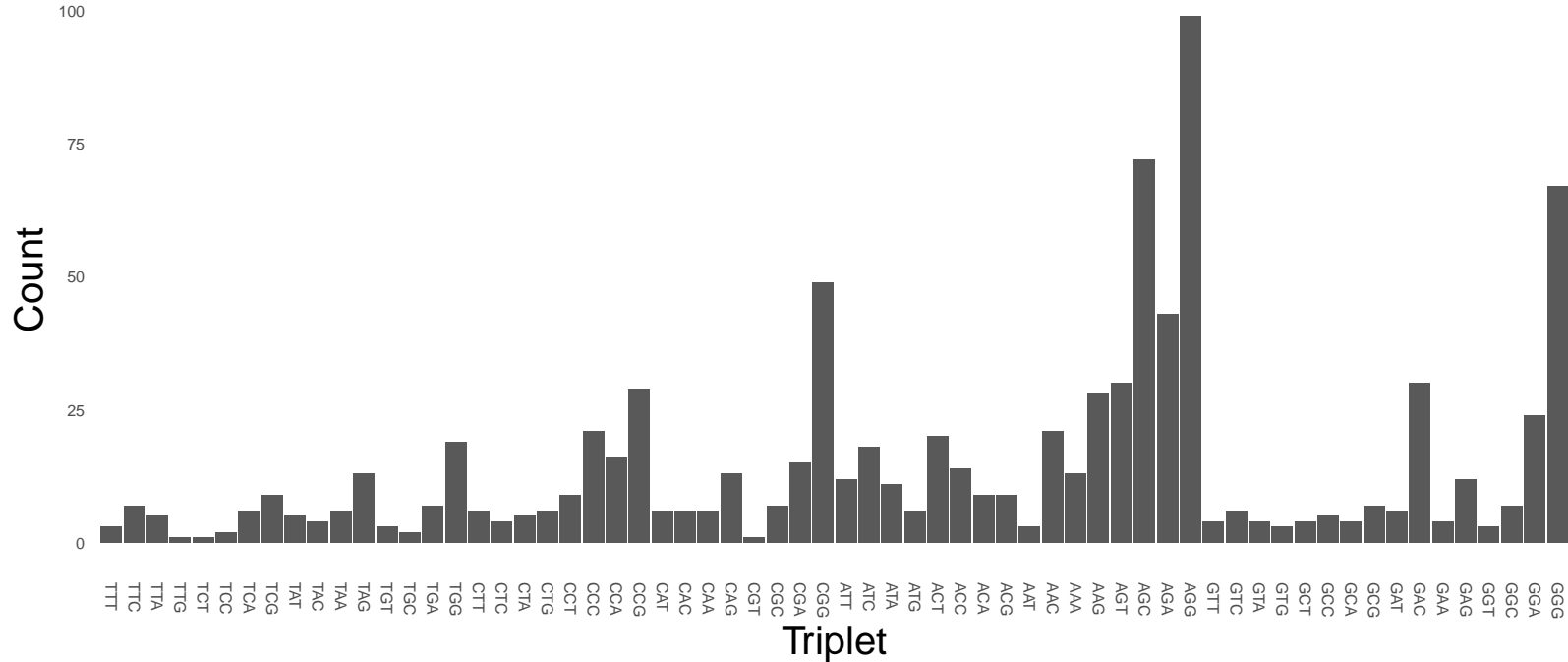
Gene TRBV7-7\*ap01\_C315T



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

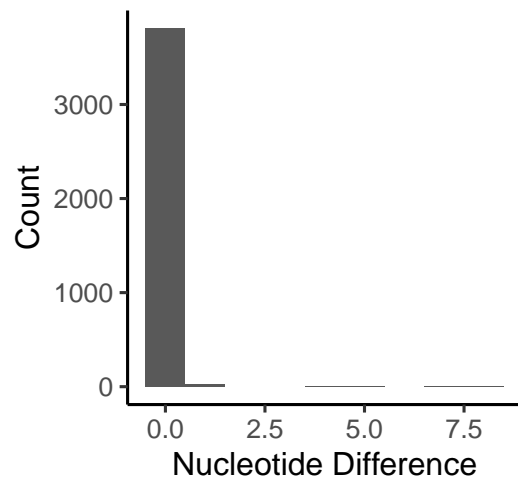


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



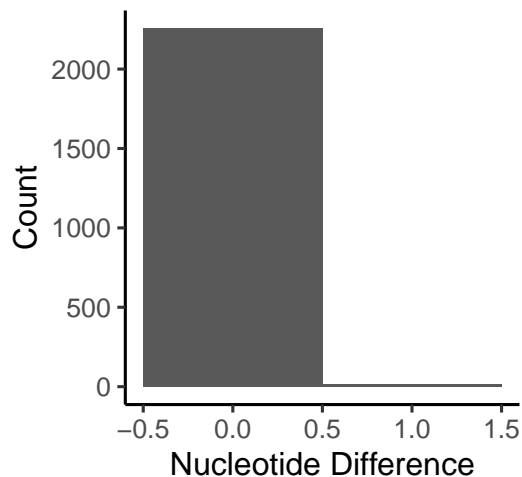
### TRBV10-1\*ap01

3841 sequences assigned  
3809 (99.2%) exact matches, in which:  
3719 unique CDR3  
13 unique J



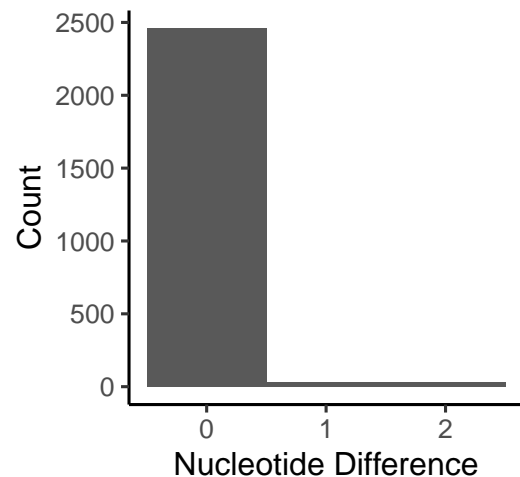
### TRBV10-2\*ap01

2274 sequences assigned  
2256 (99.2%) exact matches, in which:  
2197 unique CDR3  
13 unique J



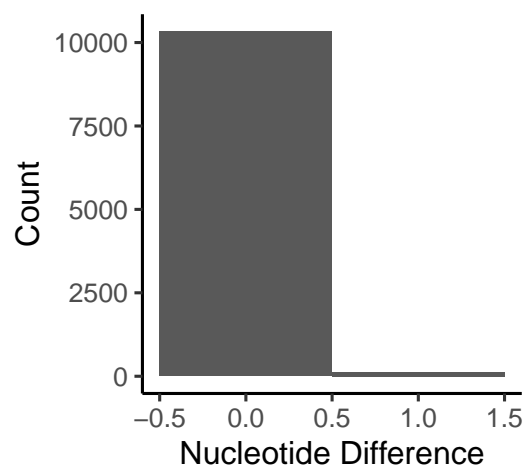
### TRBV13\*ap01

2520 sequences assigned  
2459 (97.6%) exact matches, in which:  
2370 unique CDR3  
13 unique J



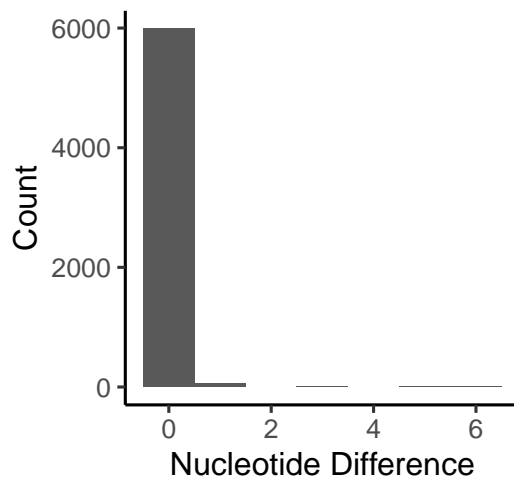
### TRBV20-1\*ap01

10465 sequences assigned  
10332 (98.7%) exact matches, in which:  
10123 unique CDR3  
13 unique J



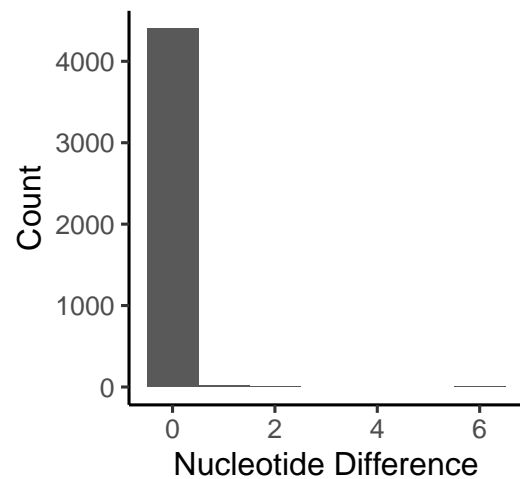
### TRBV10-3\*ap01

6047 sequences assigned  
5989 (99%) exact matches, in which:  
5851 unique CDR3  
13 unique J



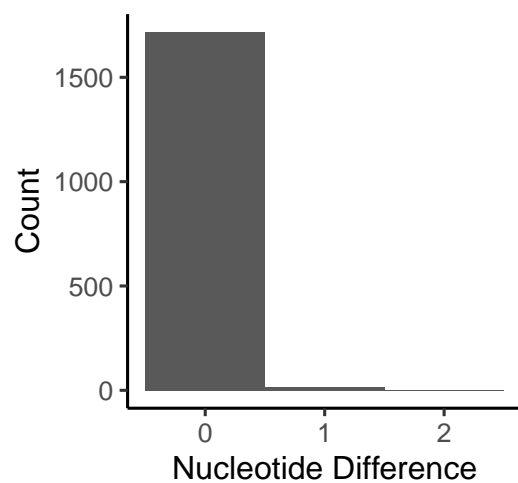
### TRBV14\*ap01

4426 sequences assigned  
4400 (99.4%) exact matches, in which:  
4283 unique CDR3  
13 unique J



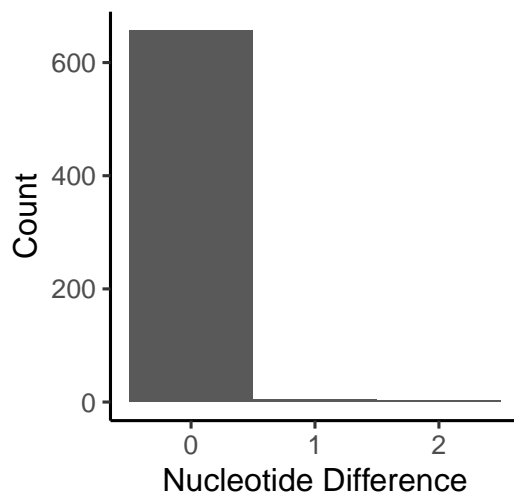
### TRBV20-1\*ap02

1734 sequences assigned  
1717 (99%) exact matches, in which:  
1681 unique CDR3  
13 unique J



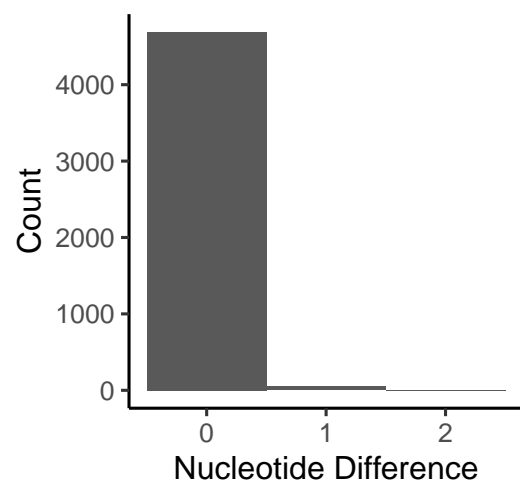
### TRBV1\*ap01

663 sequences assigned  
657 (99.1%) exact matches, in which:  
629 unique CDR3  
13 unique J



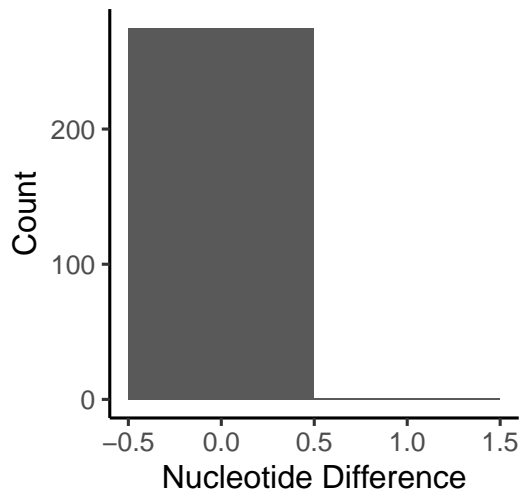
### TRBV15\*ap02

4739 sequences assigned  
4689 (98.9%) exact matches, in which:  
4552 unique CDR3  
13 unique J



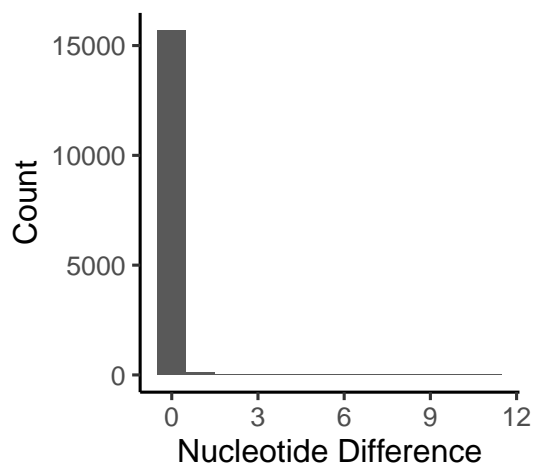
### TRBV16\*ap01

276 sequences assigned  
275 (99.6%) exact matches, in which:  
271 unique CDR3  
12 unique J



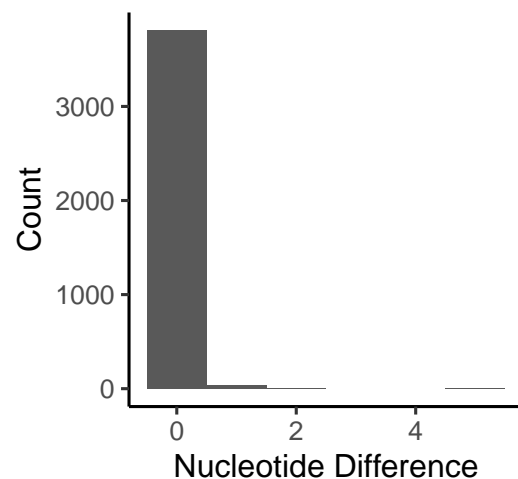
### TRBV19\*ap01

15862 sequences assigned  
15702 (99%) exact matches, in which:  
15448 unique CDR3  
13 unique J



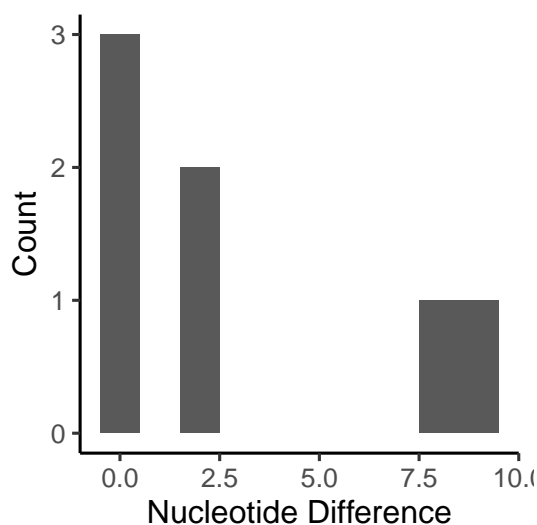
### TRBV28\*ap01

3851 sequences assigned  
3808 (98.9%) exact matches, in which:  
3723 unique CDR3  
13 unique J



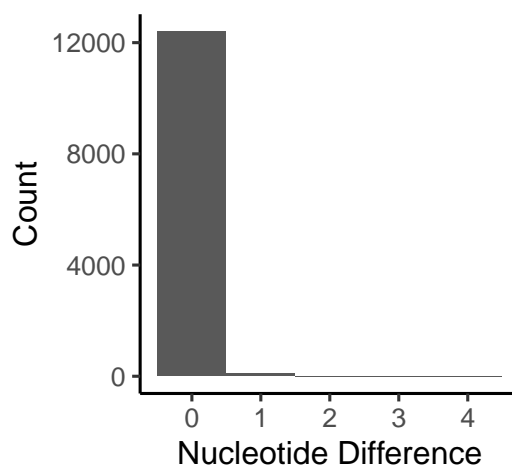
### TRBV17\*ap01

7 sequences assigned  
3 (42.9%) exact matches, in which:  
3 unique CDR3  
2 unique J



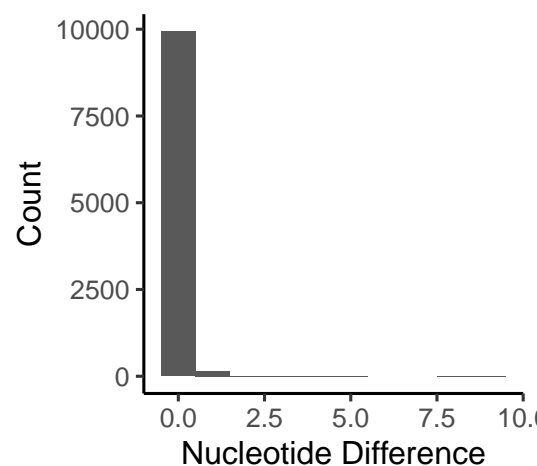
### TRBV2\*ap01

12519 sequences assigned  
12402 (99.1%) exact matches, in which:  
12111 unique CDR3  
13 unique J



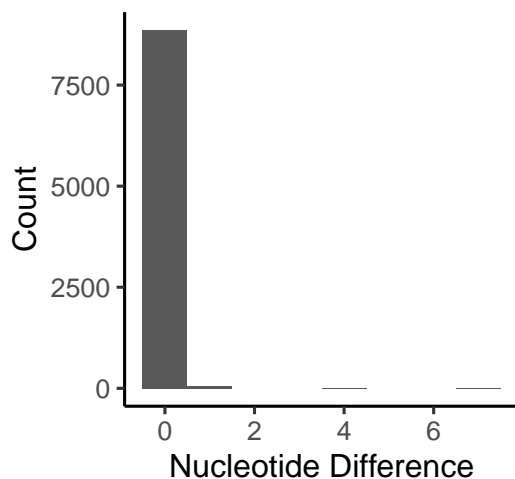
### TRBV30\*ap01

10098 sequences assigned  
9935 (98.4%) exact matches, in which:  
9673 unique CDR3  
13 unique J



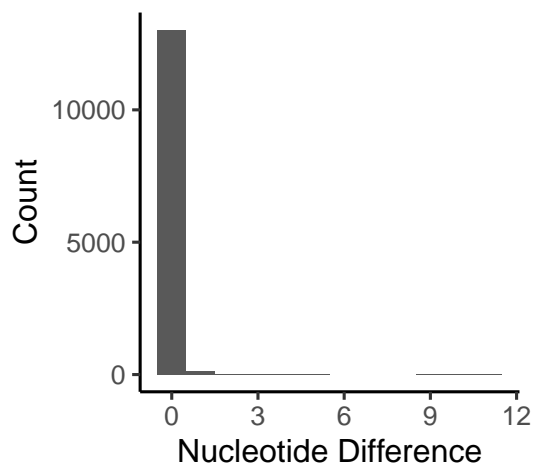
### TRBV18\*ap01

8919 sequences assigned  
8861 (99.3%) exact matches, in which:  
8717 unique CDR3  
13 unique J



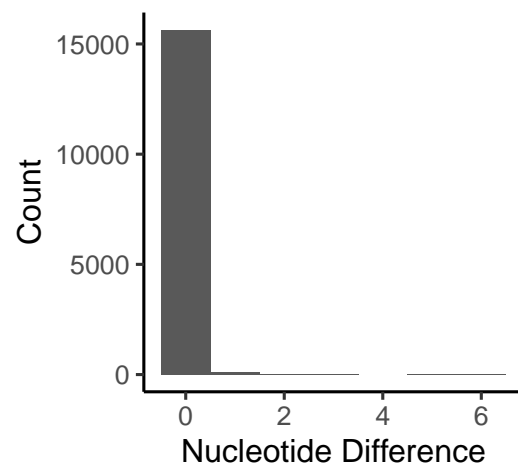
### TRBV27\*ap01

13160 sequences assigned  
13024 (99%) exact matches, in which:  
12683 unique CDR3  
13 unique J



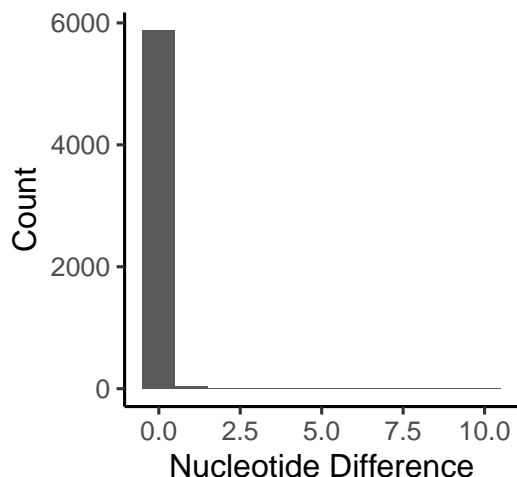
### TRBV9\*ap01

15775 sequences assigned  
15643 (99.2%) exact matches, in which:  
15393 unique CDR3  
13 unique J



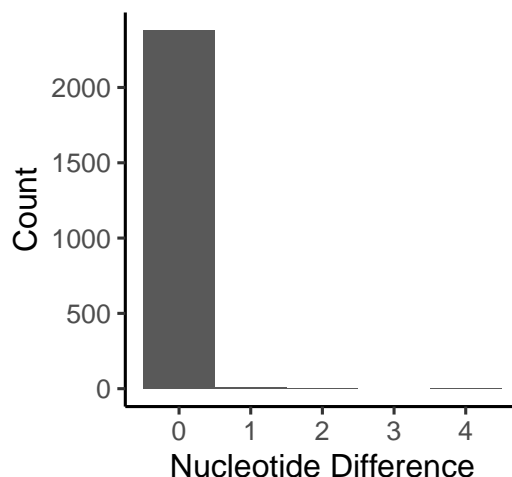
### TRBV21-1\*ap01

5942 sequences assigned  
5877 (98.9%) exact matches, in which:  
5787 unique CDR3  
13 unique J



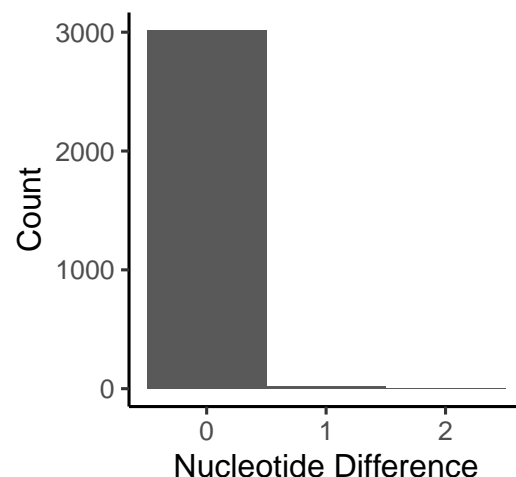
### TRBV11-3\*ap01

2394 sequences assigned  
2379 (99.4%) exact matches, in which:  
2359 unique CDR3  
13 unique J



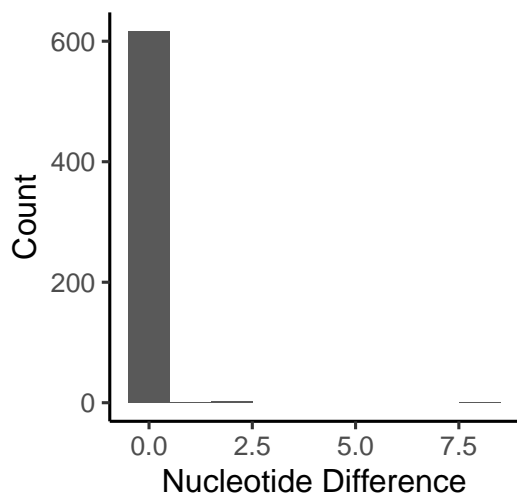
### TRBV12-5\*ap01

3045 sequences assigned  
3015 (99%) exact matches, in which:  
2946 unique CDR3  
13 unique J



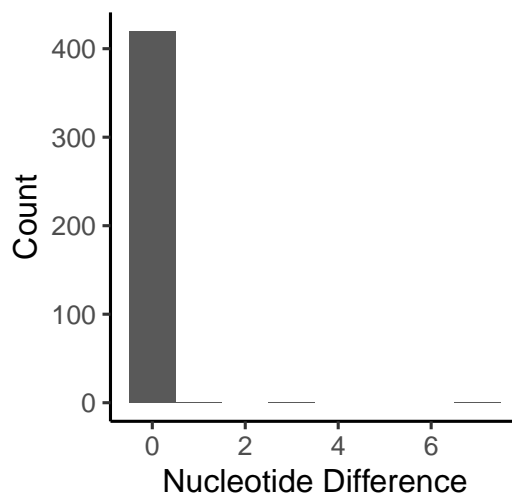
### TRBV11-1\*ap01

621 sequences assigned  
617 (99.4%) exact matches, in which:  
609 unique CDR3  
13 unique J



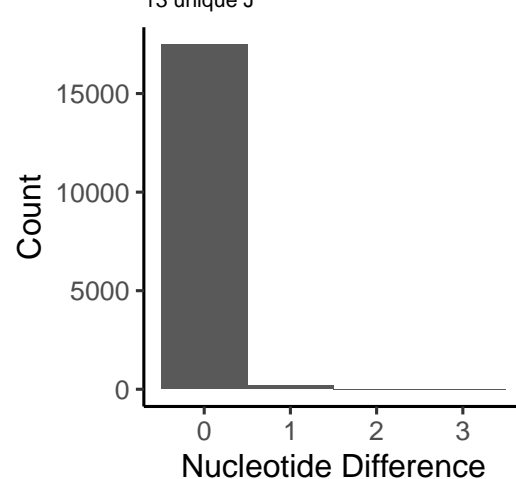
### TRBV12-1\*ap01

423 sequences assigned  
420 (99.3%) exact matches, in which:  
407 unique CDR3  
13 unique J



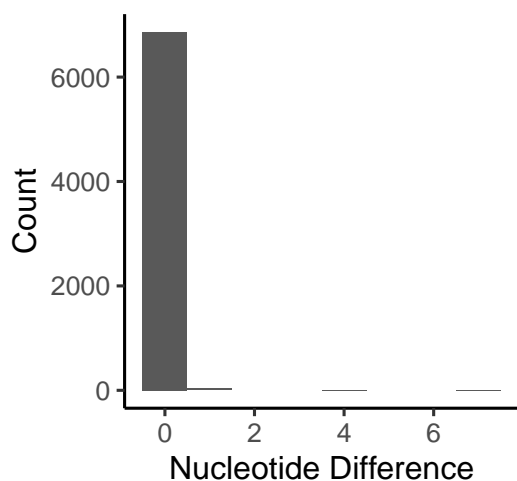
### TRBV12-34\*ap01

17676 sequences assigned  
17490 (98.9%) exact matches, in which:  
17076 unique CDR3  
13 unique J



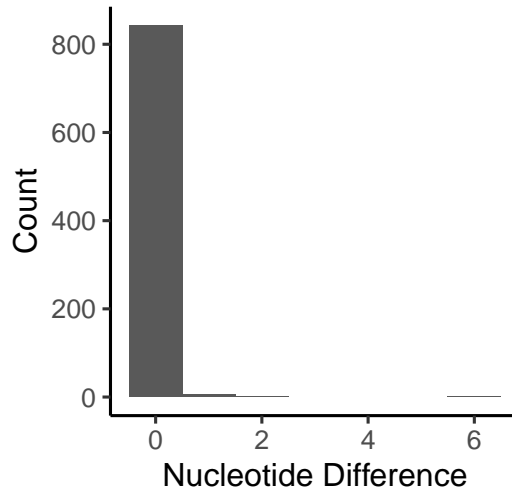
### TRBV11-2\*ap01

6901 sequences assigned  
6863 (99.4%) exact matches, in which:  
6791 unique CDR3  
13 unique J



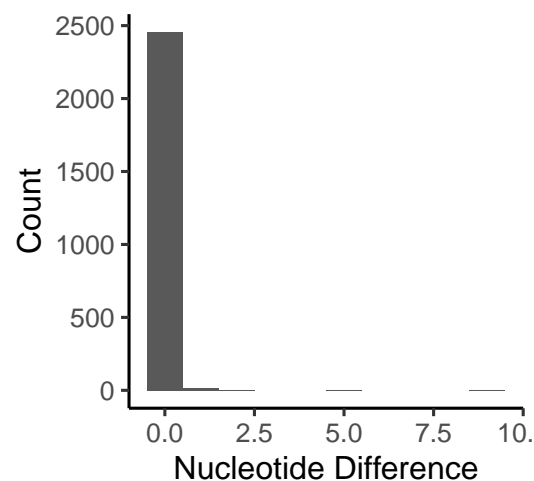
### TRBV12-2\*ap01

851 sequences assigned  
843 (99.1%) exact matches, in which:  
823 unique CDR3  
13 unique J



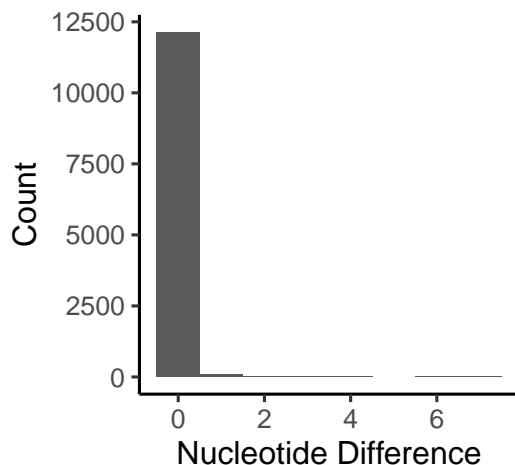
### TRBV23-1\*ap01

2477 sequences assigned  
2456 (99.2%) exact matches, in which:  
2397 unique CDR3  
13 unique J



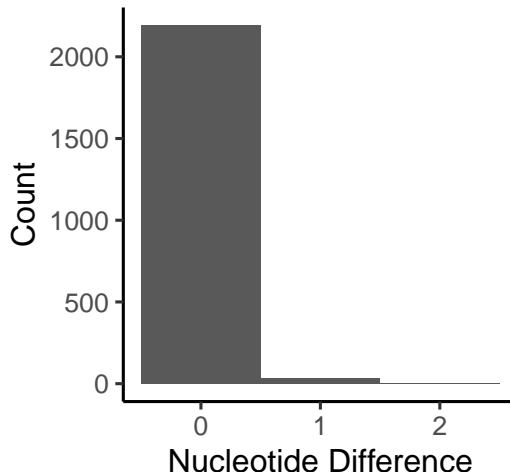
### TRBV3–12\*ap01

12236 sequences assigned  
12137 (99.2%) exact matches, in which:  
11928 unique CDR3  
13 unique J



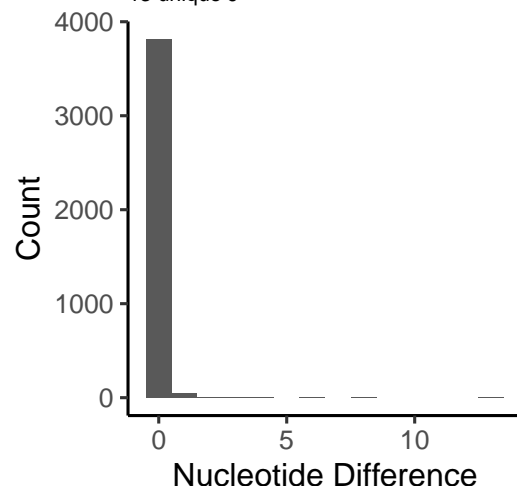
### TRBV4–2\*ap01

2225 sequences assigned  
2192 (98.5%) exact matches, in which:  
2121 unique CDR3  
13 unique J



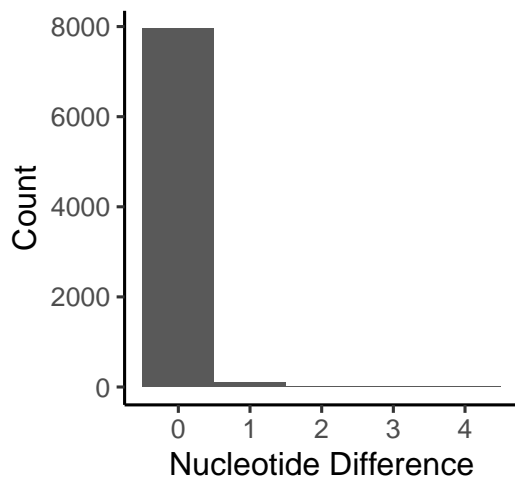
### TRBV25–1\*ap01

3878 sequences assigned  
3812 (98.3%) exact matches, in which:  
3708 unique CDR3  
13 unique J



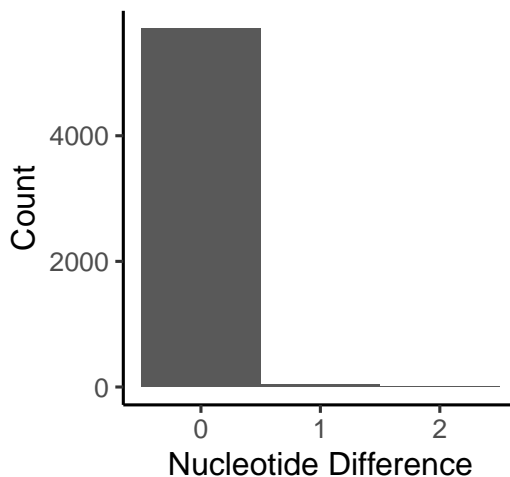
### TRBV4–1\*ap01

8051 sequences assigned  
7952 (98.8%) exact matches, in which:  
7699 unique CDR3  
13 unique J



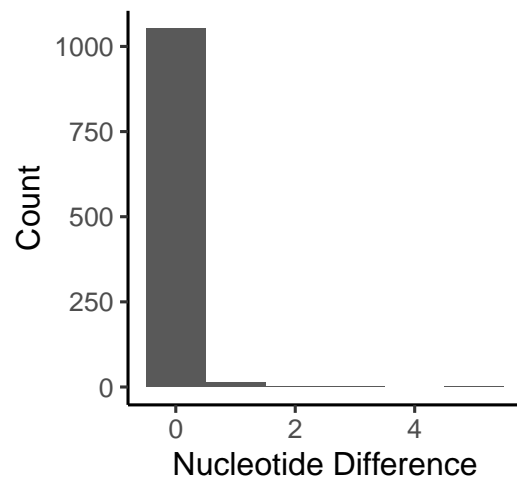
### TRBV4–3\*ap01

5748 sequences assigned  
5704 (99.2%) exact matches, in which:  
5528 unique CDR3  
13 unique J



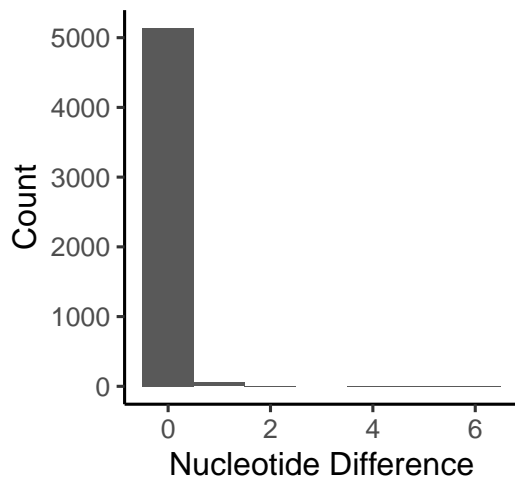
### TRBV5–3\*ap01

1070 sequences assigned  
1052 (98.3%) exact matches, in which:  
1027 unique CDR3  
13 unique J



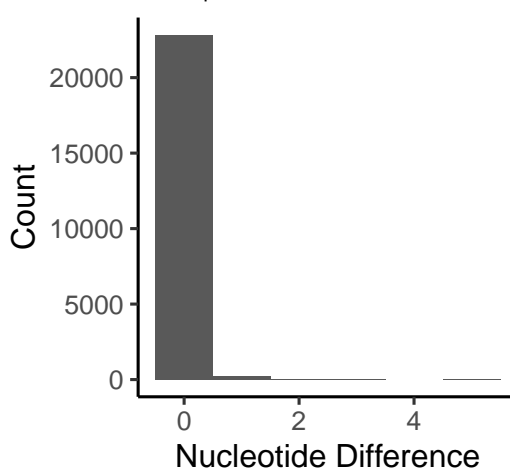
### TRBV24–1\*ap01

5198 sequences assigned  
5138 (98.8%) exact matches, in which:  
5008 unique CDR3  
13 unique J



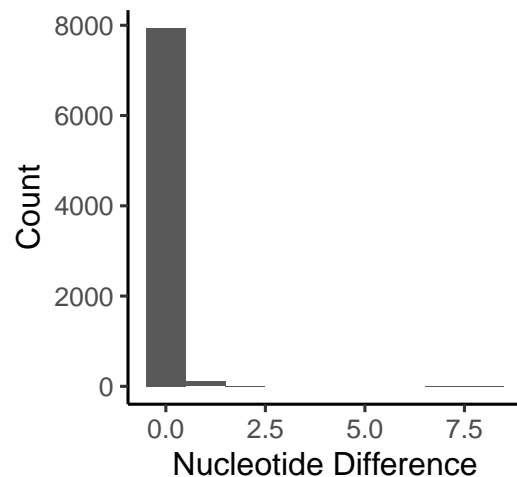
### TRBV5–1\*ap01

23093 sequences assigned  
22838 (98.9%) exact matches, in which:  
22208 unique CDR3  
13 unique J



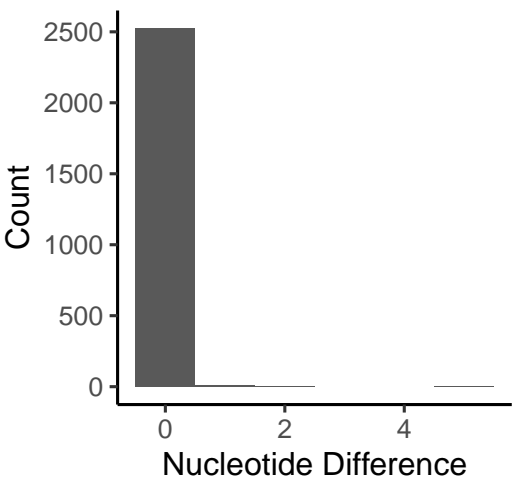
### TRBV5–4\*ap01

8053 sequences assigned  
7939 (98.6%) exact matches, in which:  
7715 unique CDR3  
13 unique J



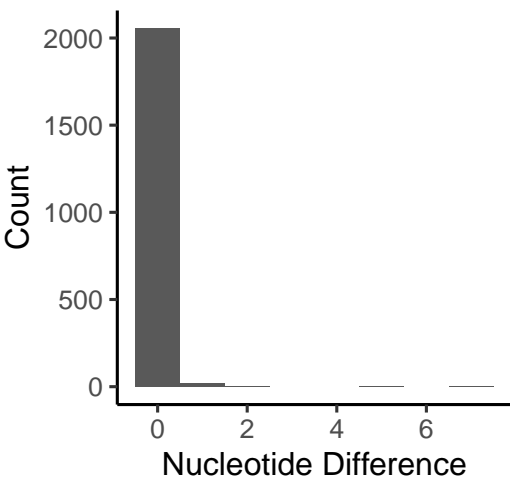
TRBV5-5\*ap01

2538 sequences assigned  
2524 (99.4%) exact matches, in which:  
2508 unique CDR3  
13 unique J



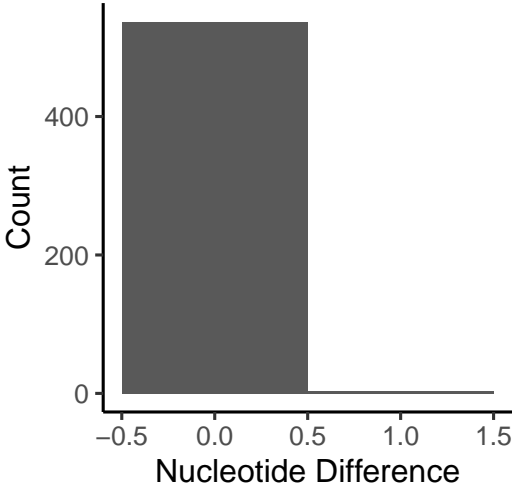
TRBV5-8\*ap01

2080 sequences assigned  
2055 (98.8%) exact matches, in which:  
2019 unique CDR3  
13 unique J



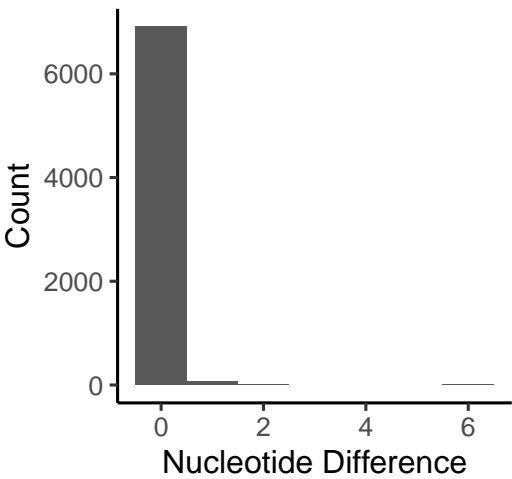
TRBV6-7\*ap01

541 sequences assigned  
537 (99.3%) exact matches, in which:  
515 unique CDR3  
13 unique J



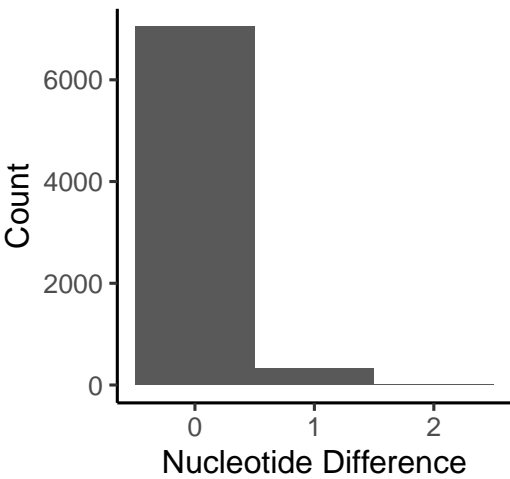
TRBV5-6\*ap01

6986 sequences assigned  
6908 (98.9%) exact matches, in which:  
6660 unique CDR3  
13 unique J



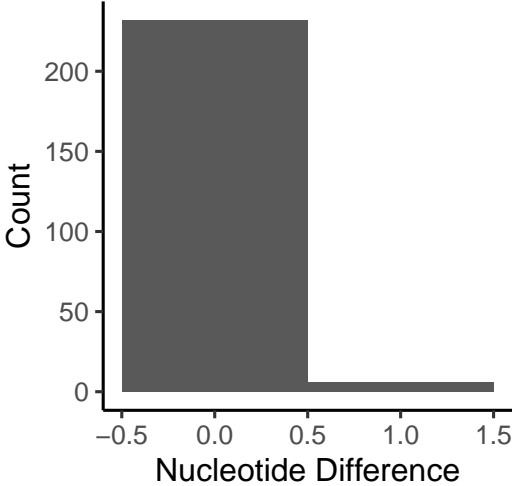
TRBV6-1\*ap01

7360 sequences assigned  
7043 (95.7%) exact matches, in which:  
6860 unique CDR3  
13 unique J



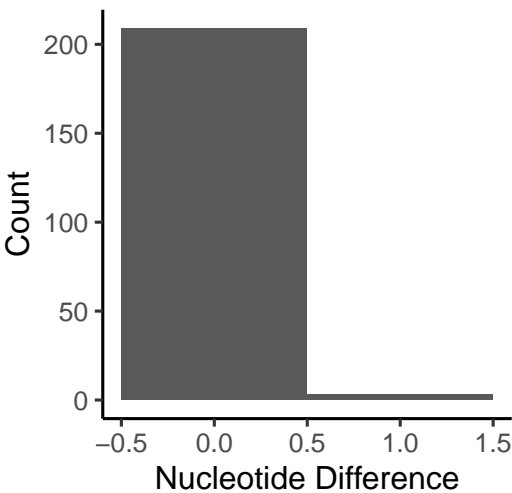
TRBV6-8\*ap01

238 sequences assigned  
232 (97.5%) exact matches, in which:  
225 unique CDR3  
13 unique J



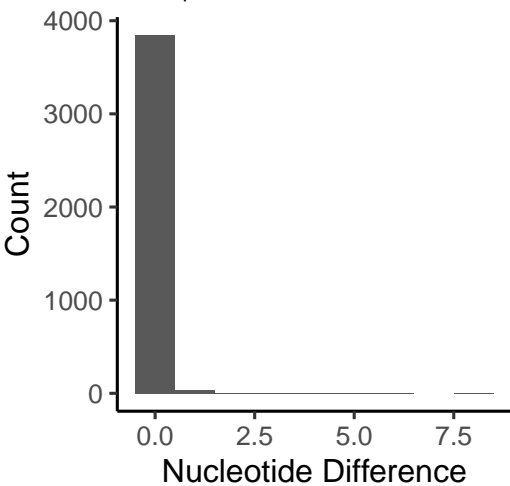
TRBV5-7\*ap01

212 sequences assigned  
209 (98.6%) exact matches, in which:  
201 unique CDR3  
13 unique J



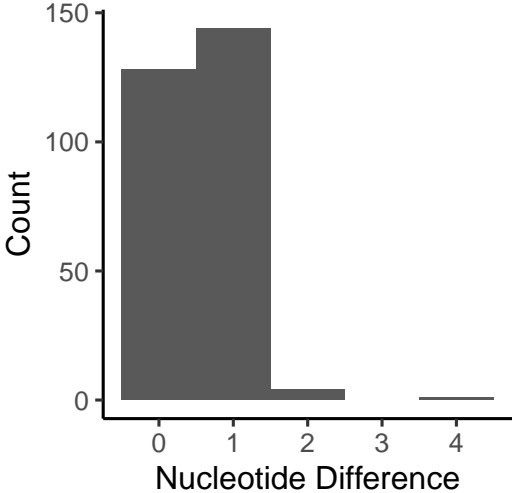
TRBV6-4\*ap01

3899 sequences assigned  
3846 (98.6%) exact matches, in which:  
3759 unique CDR3  
13 unique J



TRBV6-9\*ap01

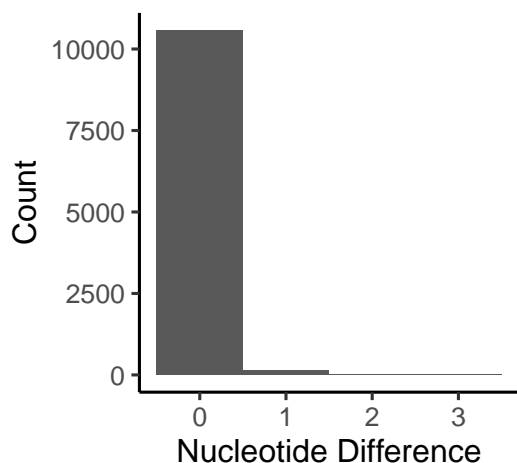
277 sequences assigned  
128 (46.2%) exact matches, in which:  
124 unique CDR3  
13 unique J





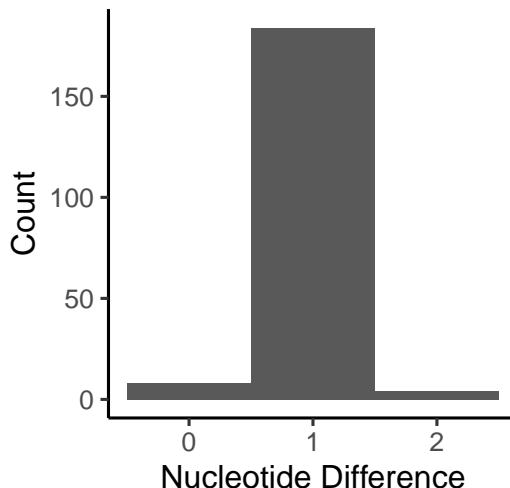
### TRBV6-23\*ap01

10710 sequences assigned  
10579 (98.8%) exact matches, in which:  
10230 unique CDR3  
13 unique J



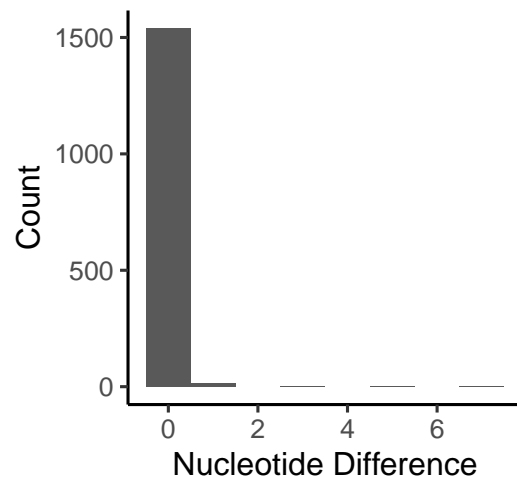
### TRBV7-1\*ap01\_T296C

196 sequences assigned  
8 (4.1%) exact matches, in which:  
8 unique CDR3  
6 unique J



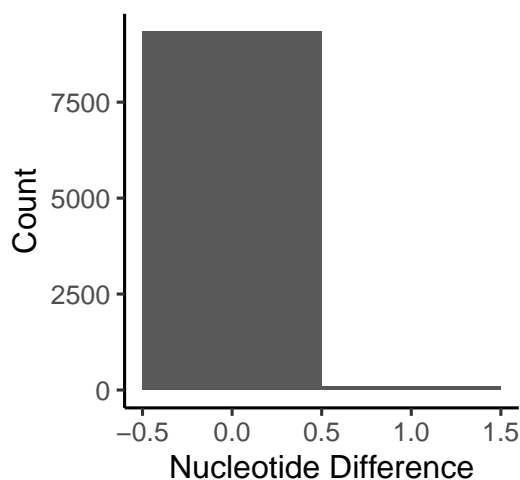
### TRBV7-3\*ap02

1557 sequences assigned  
1539 (98.8%) exact matches, in which:  
1513 unique CDR3  
13 unique J



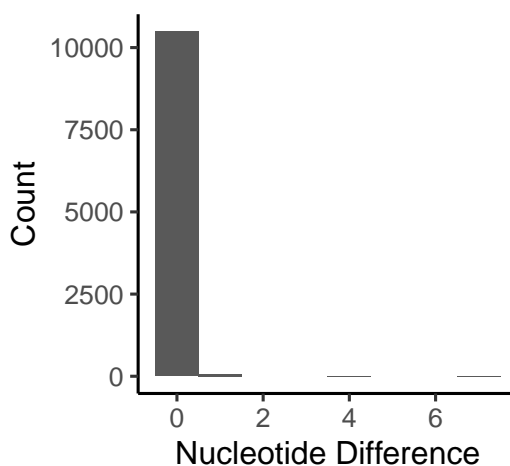
### TRBV6-56\*ap01

9437 sequences assigned  
9336 (98.9%) exact matches, in which:  
9057 unique CDR3  
13 unique J



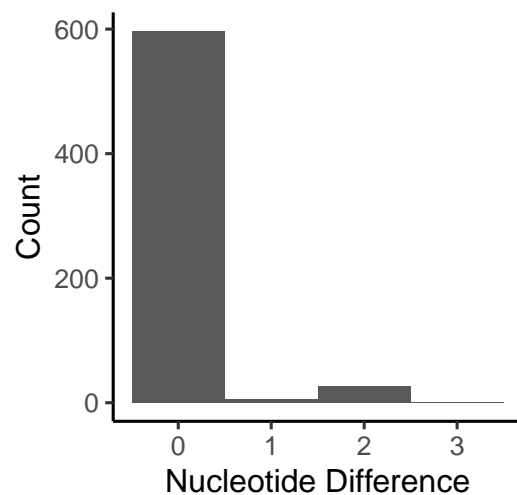
### TRBV7-2\*ap01

10557 sequences assigned  
10490 (99.4%) exact matches, in which:  
10238 unique CDR3  
13 unique J



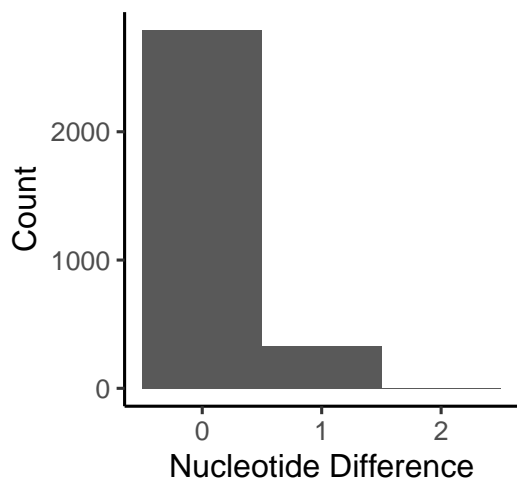
### TRBV7-4\*ap01

629 sequences assigned  
597 (94.9%) exact matches, in which:  
584 unique CDR3  
13 unique J



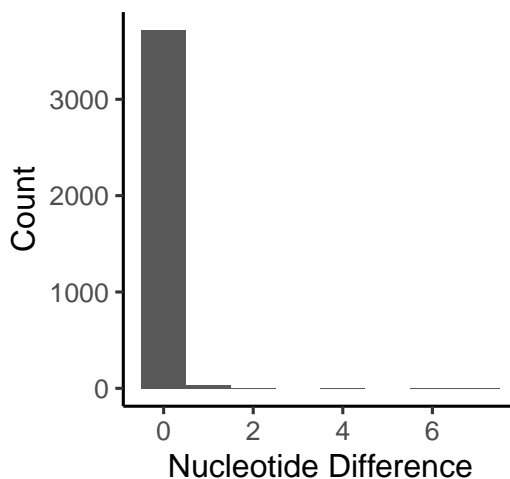
### TRBV6-56\*ap02

3123 sequences assigned  
2793 (89.4%) exact matches, in which:  
2700 unique CDR3  
13 unique J



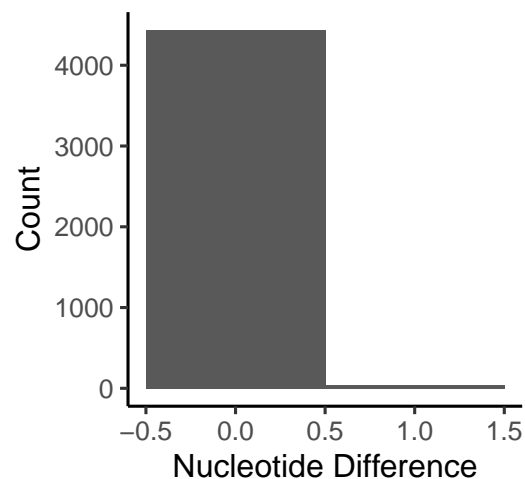
### TRBV7-3\*ap01

3761 sequences assigned  
3719 (98.9%) exact matches, in which:  
3657 unique CDR3  
13 unique J



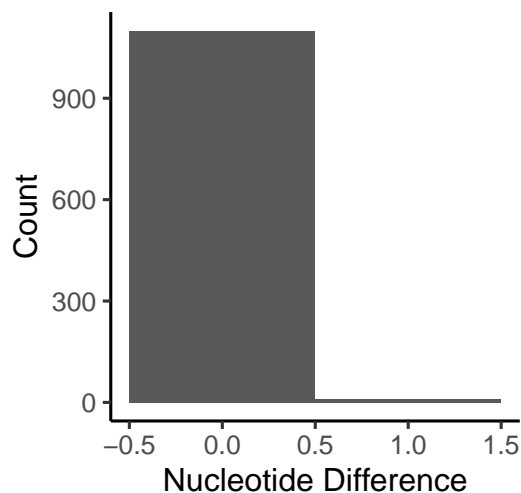
### TRBV7-6\*ap01

4481 sequences assigned  
4436 (99%) exact matches, in which:  
4314 unique CDR3  
13 unique J



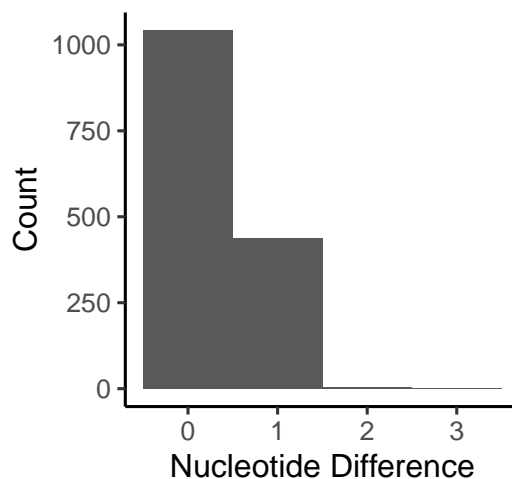
### TRBV7-7\*ap01

1109 sequences assigned  
1100 (99.2%) exact matches, in which:  
1066 unique CDR3  
13 unique J



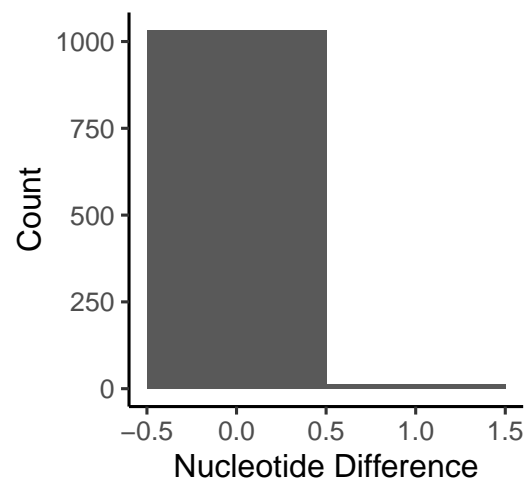
### TRBV7-8\*ap03

1485 sequences assigned  
1042 (70.2%) exact matches, in which:  
1020 unique CDR3  
13 unique J



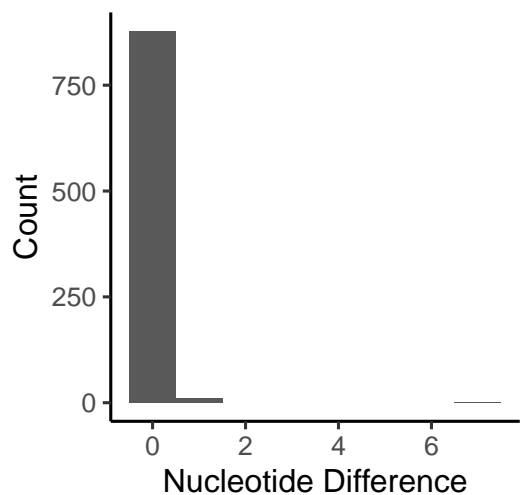
### TRBV29-1\*ap02

1046 sequences assigned  
1032 (98.7%) exact matches, in which:  
994 unique CDR3  
13 unique J



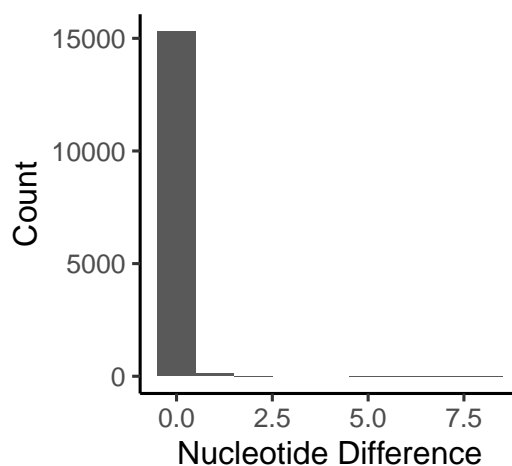
### TRBV7-7\*ap01\_C315T

890 sequences assigned  
878 (98.7%) exact matches, in which:  
856 unique CDR3  
13 unique J



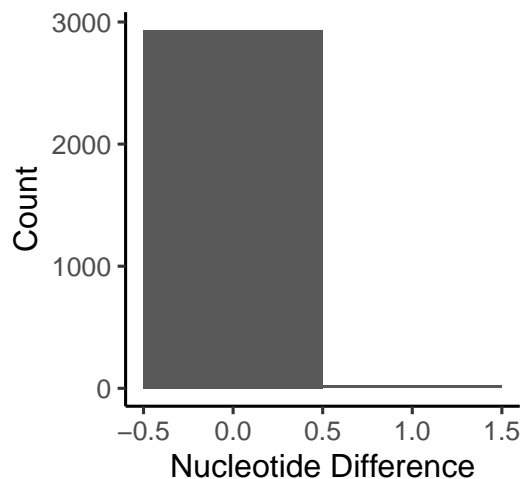
### TRBV7-9\*ap01

15436 sequences assigned  
15304 (99.1%) exact matches, in which:  
14937 unique CDR3  
13 unique J



### TRBV7-8\*ap01

2956 sequences assigned  
2934 (99.3%) exact matches, in which:  
2852 unique CDR3  
13 unique J



### TRBV29-1\*ap01

5358 sequences assigned  
5288 (98.7%) exact matches, in which:  
5108 unique CDR3  
13 unique J

