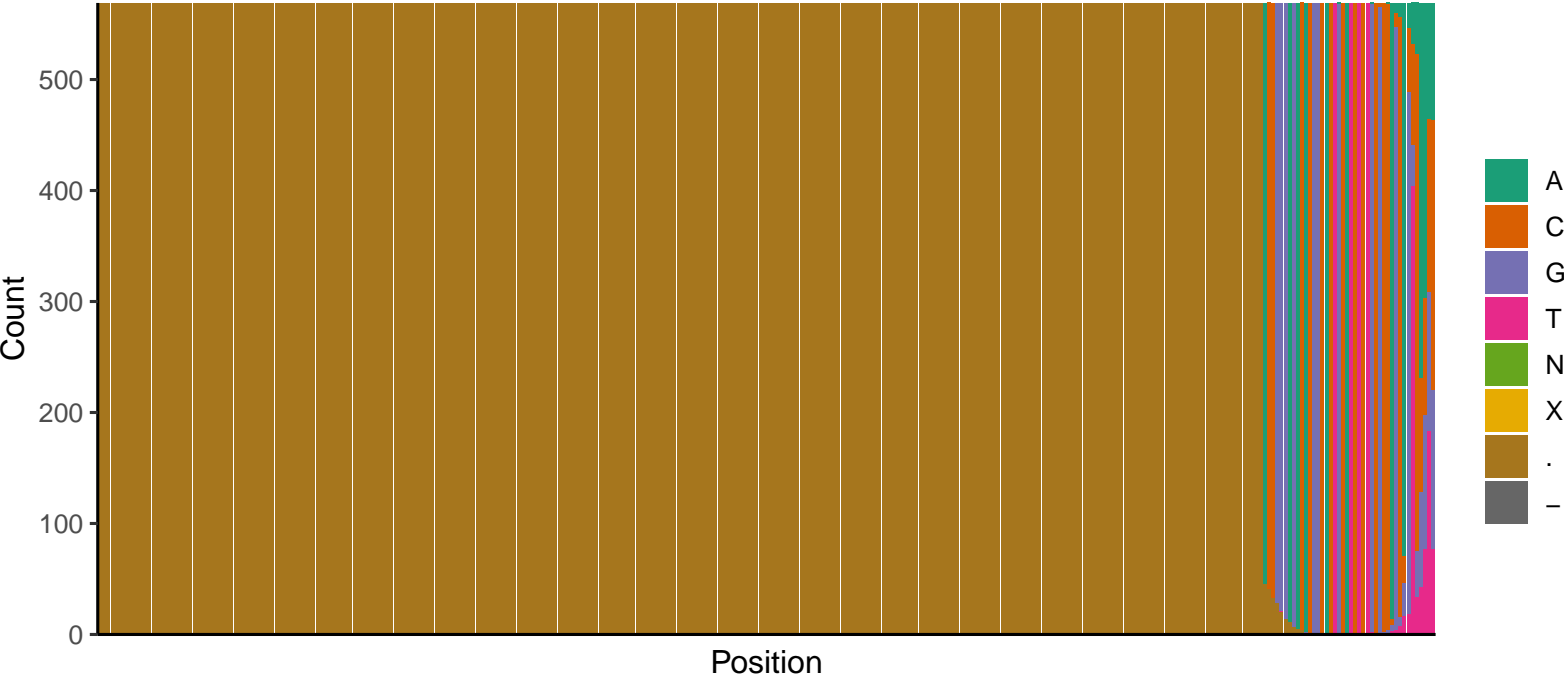
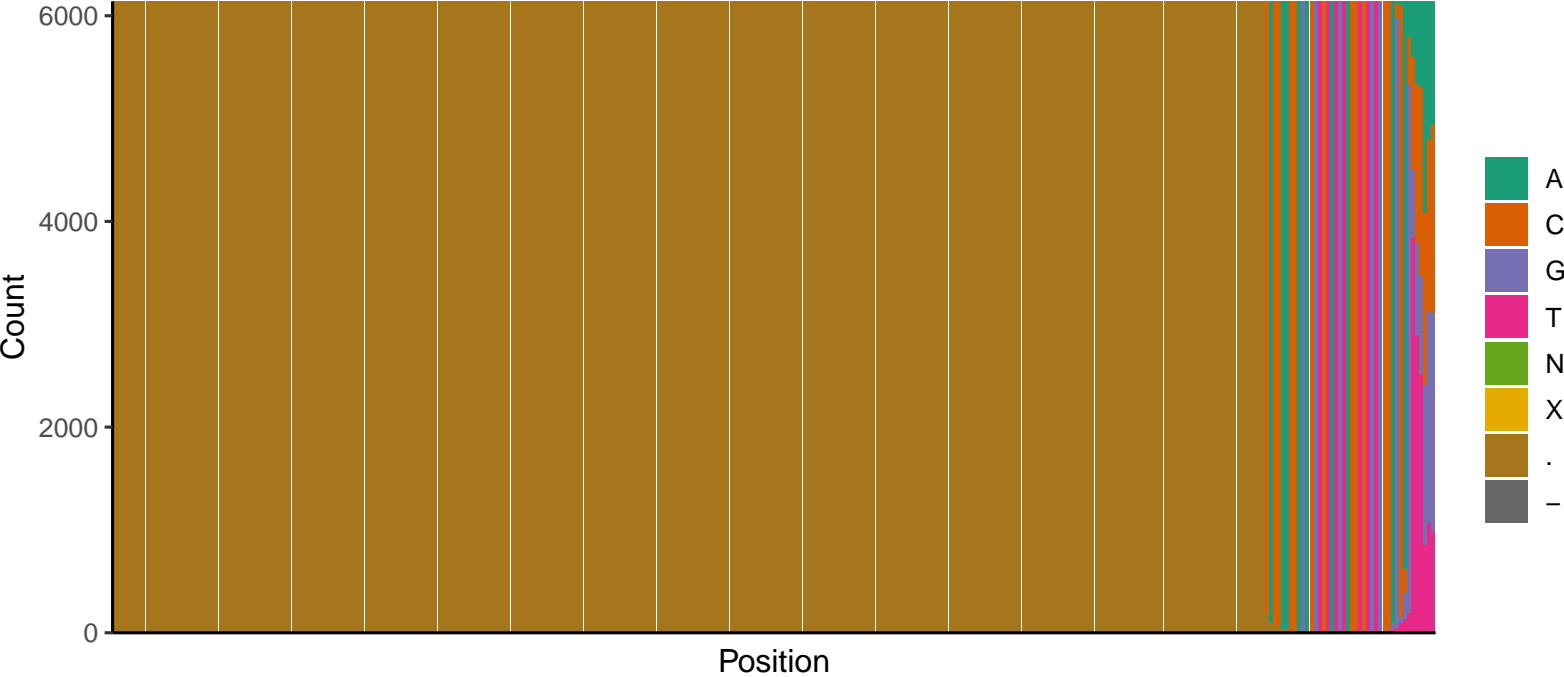


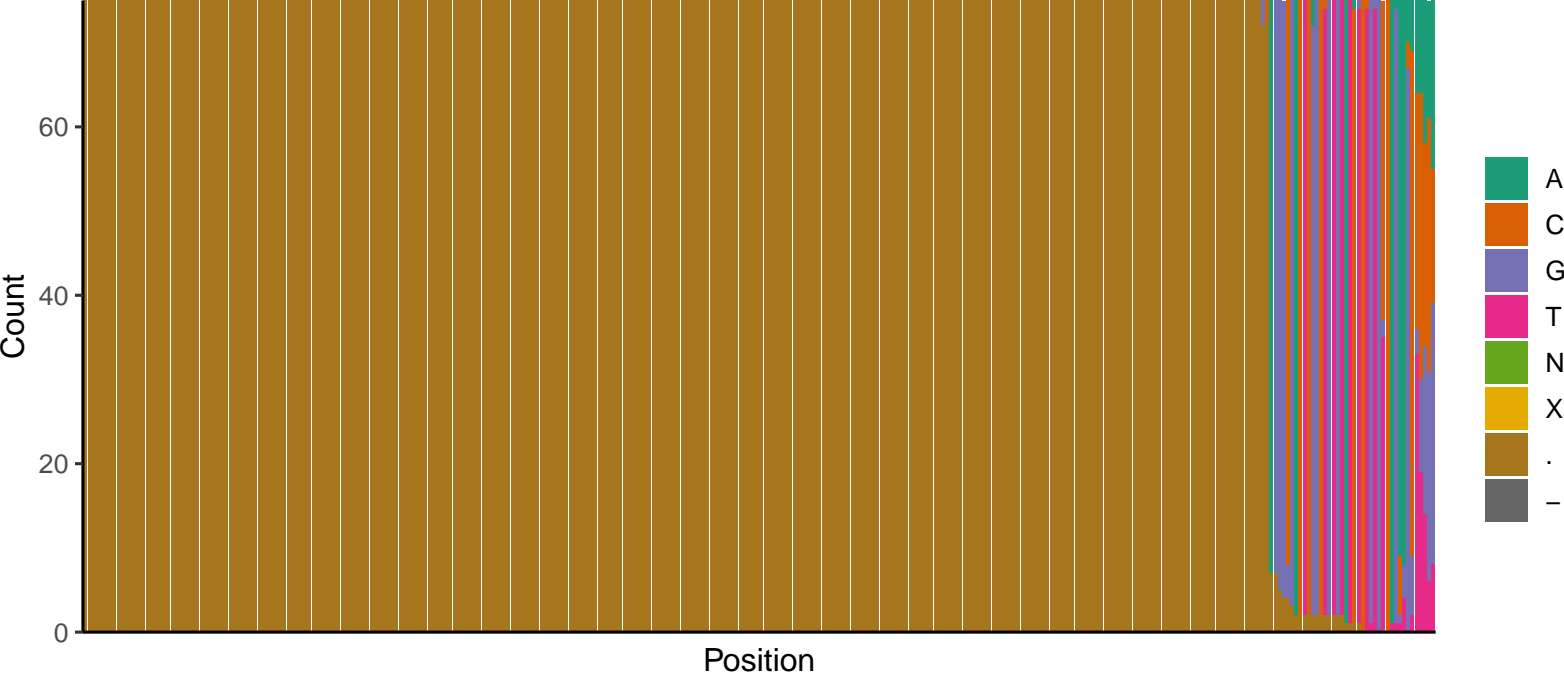
Gene TRBV23-1\*ap01\_T304C



Gene TRBV28\*ap01\_A297G



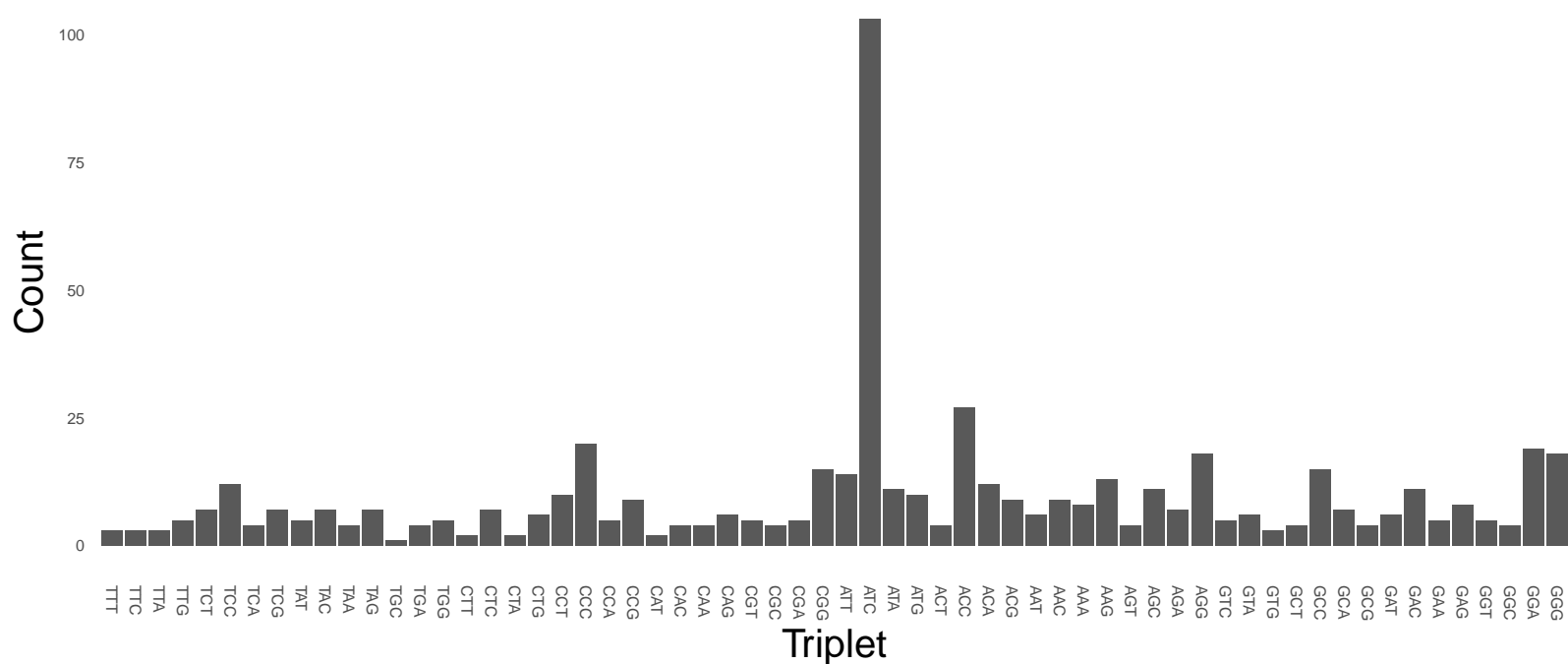
Gene TRBV7-1\*ap01\_T296C



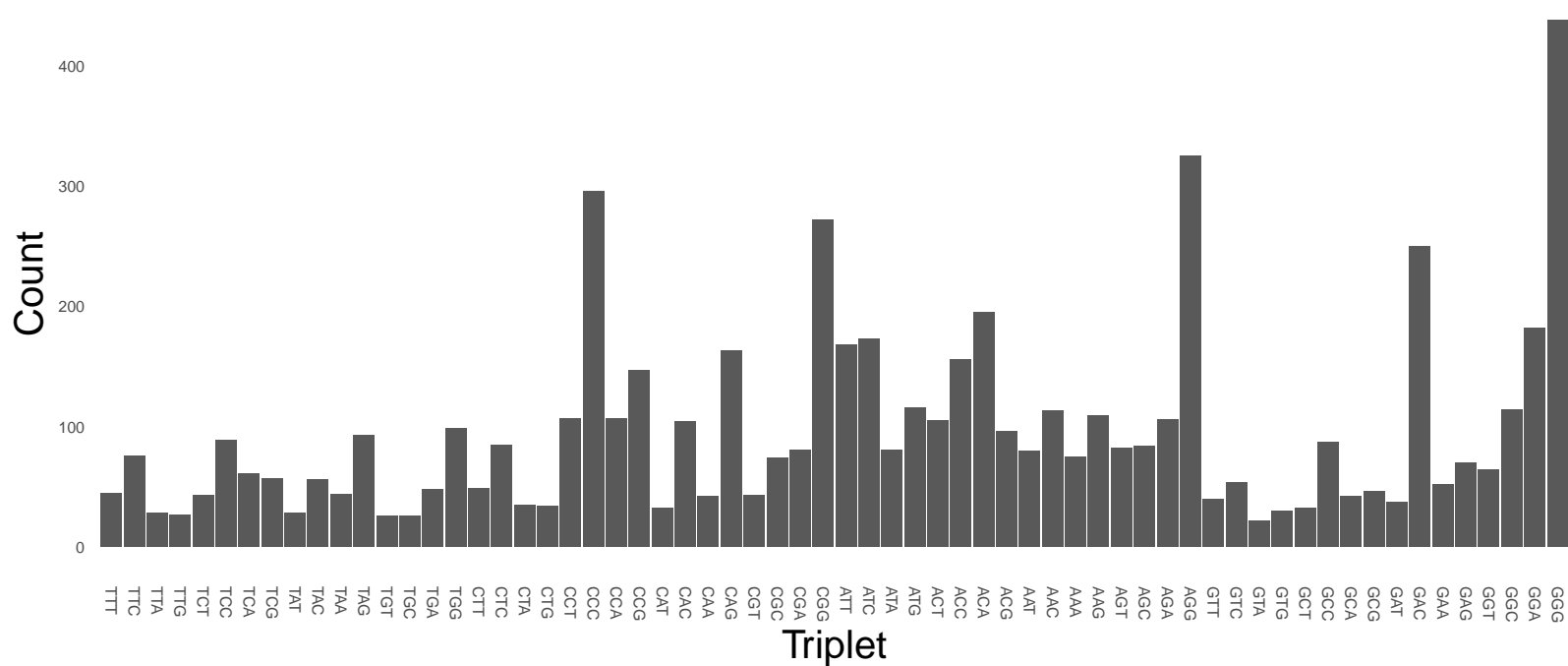
Gene TRBV7-7\*ap01\_C315T



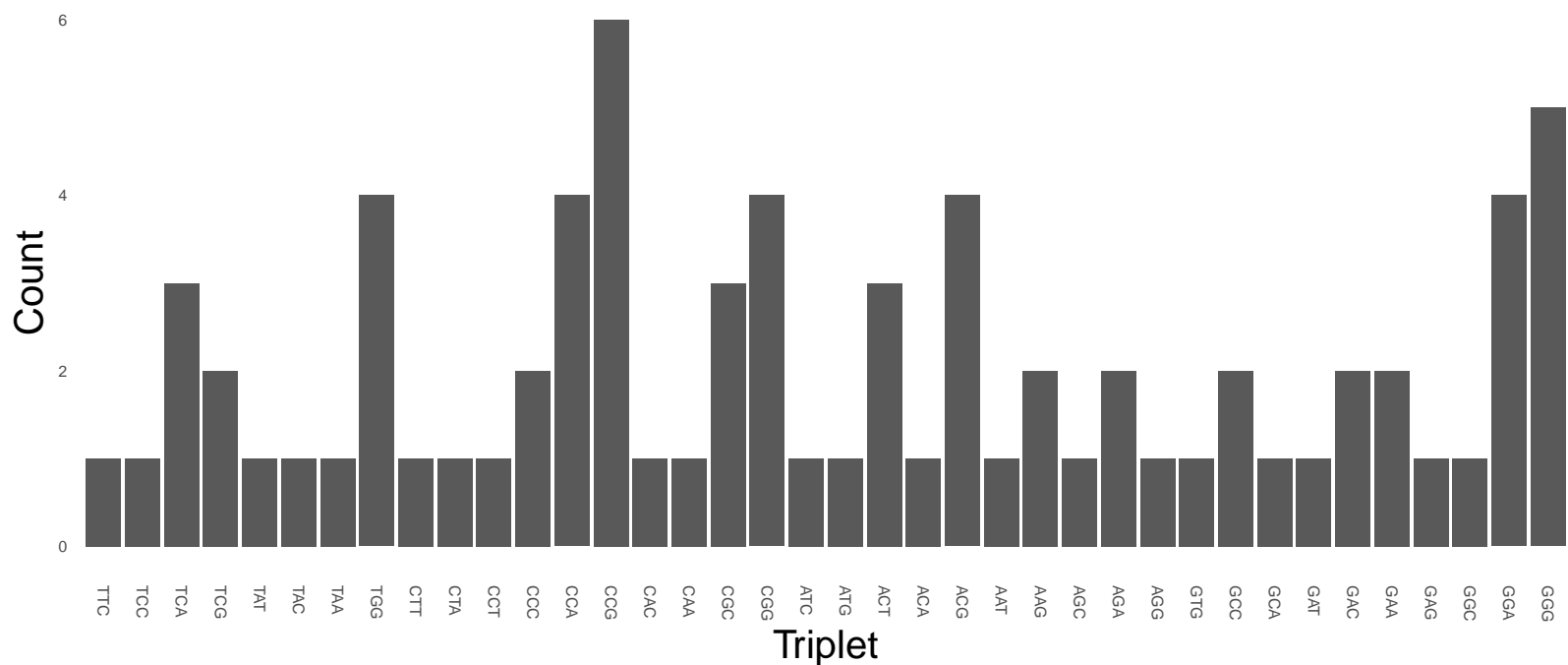
TRBV23–1\*ap01\_T304C– Final 3 nucleotides as a triplet



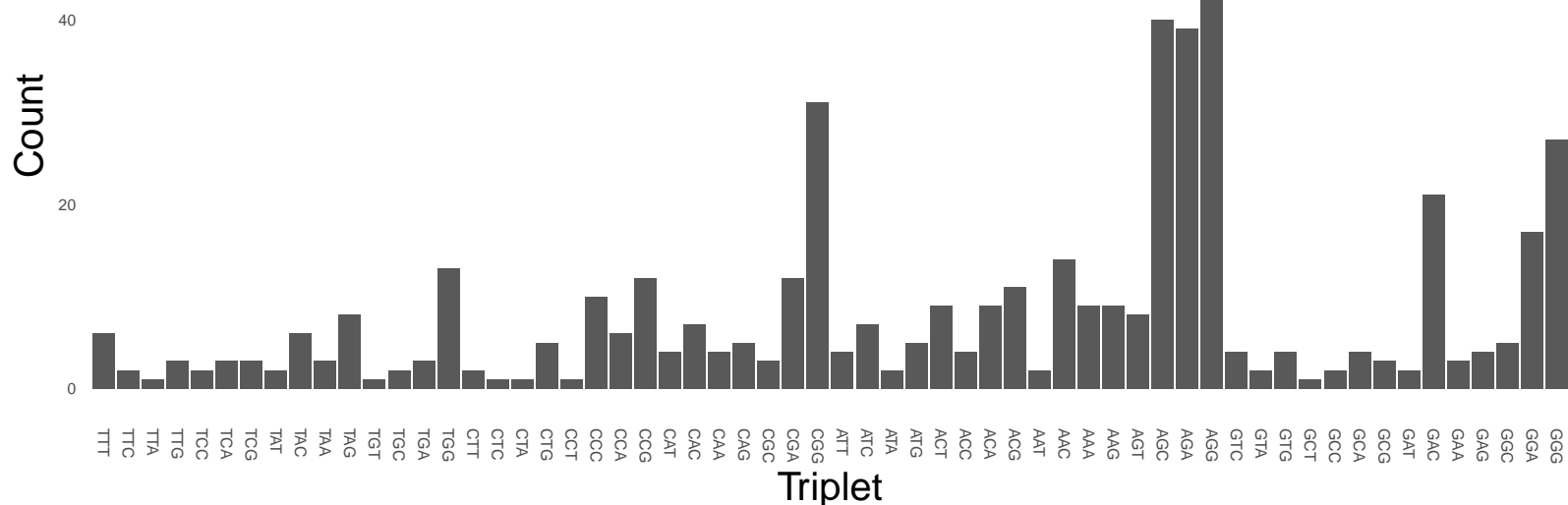
TRBV28\*ap01\_A297G– Final 3 nucleotides as a triplet



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

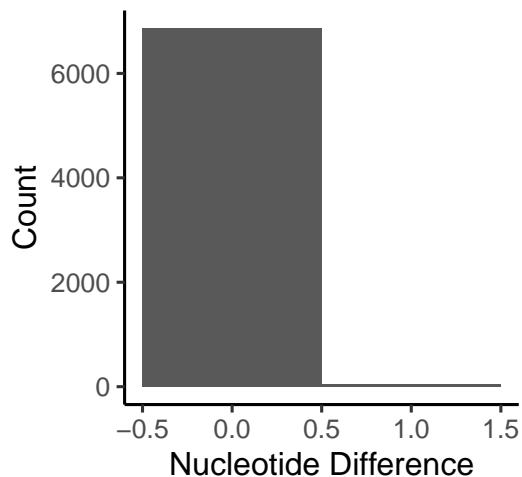


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



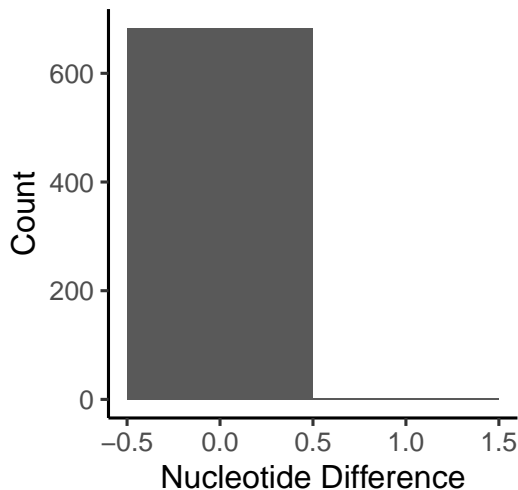
### TRBV20–1\*ap01

6909 sequences assigned  
6862 (99.3%) exact matches, in which:  
6831 unique CDR3  
13 unique J



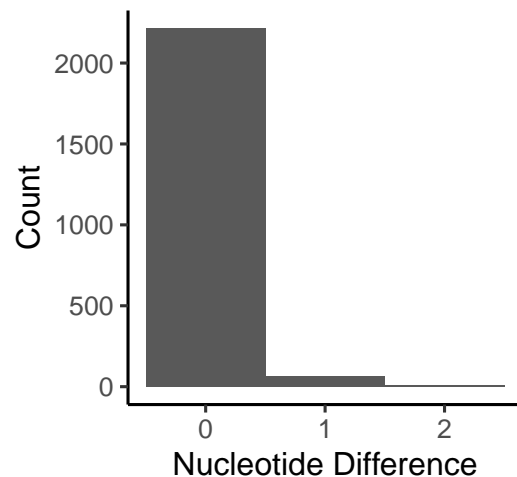
### TRBV10–2\*ap01

687 sequences assigned  
684 (99.6%) exact matches, in which:  
681 unique CDR3  
13 unique J



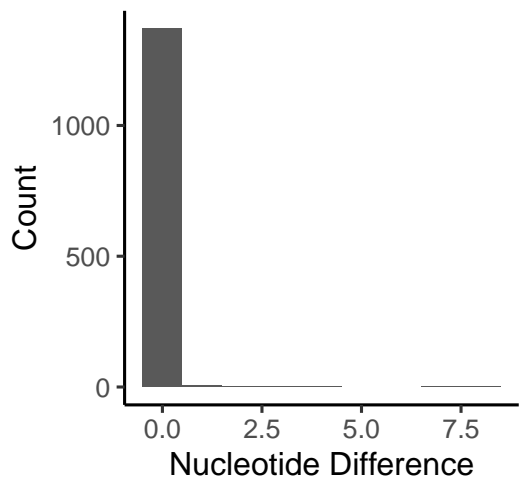
### TRBV13\*ap01

2287 sequences assigned  
2214 (96.8%) exact matches, in which:  
2178 unique CDR3  
13 unique J



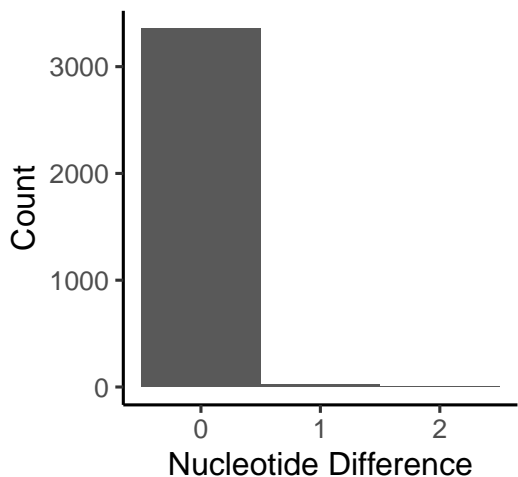
### TRBV10–1\*ap01

1382 sequences assigned  
1370 (99.1%) exact matches, in which:  
1352 unique CDR3  
13 unique J



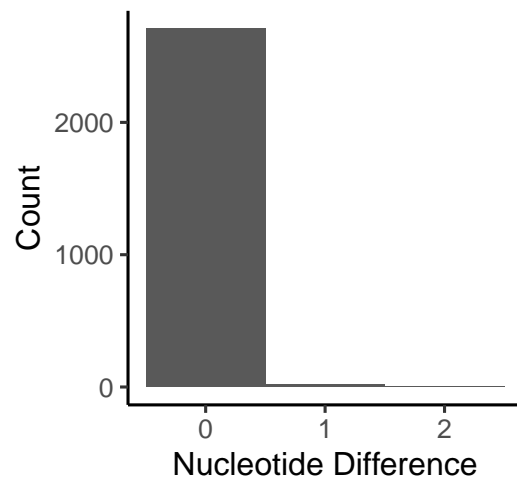
### TRBV10–3\*ap01

3378 sequences assigned  
3355 (99.3%) exact matches, in which:  
3333 unique CDR3  
13 unique J



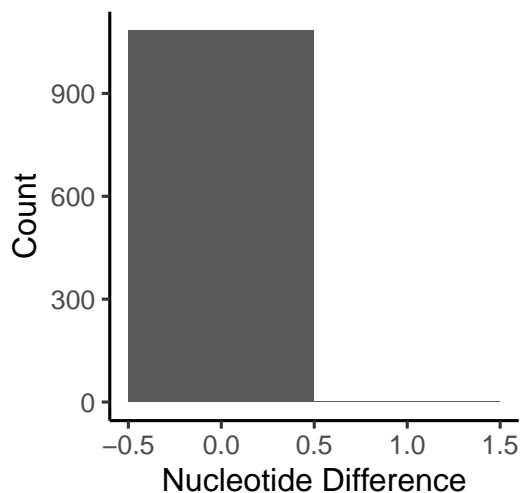
### TRBV14\*ap01

2728 sequences assigned  
2708 (99.3%) exact matches, in which:  
2695 unique CDR3  
13 unique J



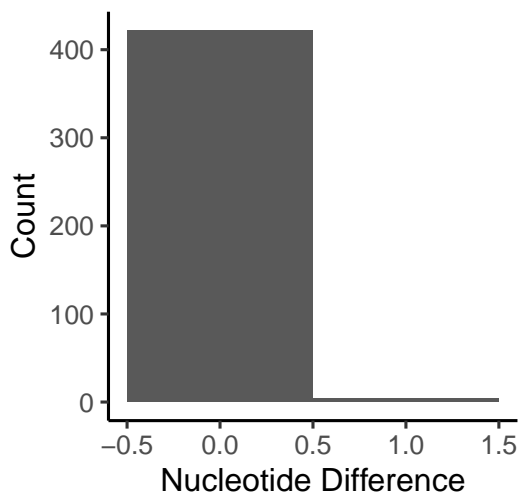
### TRBV20–1\*ap02

1085 sequences assigned  
1084 (99.9%) exact matches, in which:  
1076 unique CDR3  
13 unique J



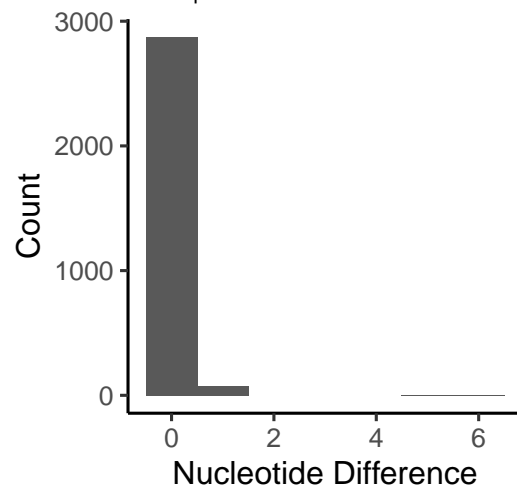
### TRBV1\*ap01

426 sequences assigned  
422 (99.1%) exact matches, in which:  
414 unique CDR3  
13 unique J



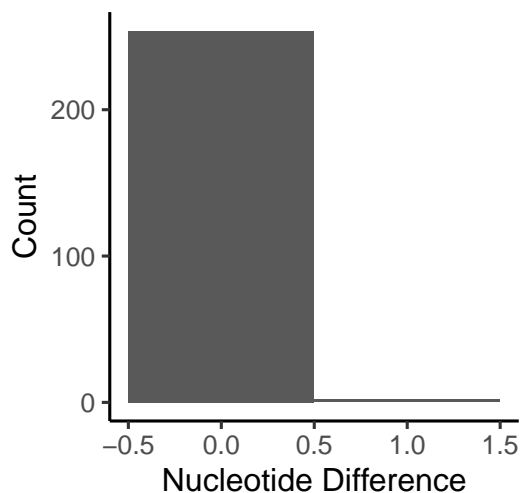
### TRBV15\*ap02

2952 sequences assigned  
2873 (97.3%) exact matches, in which:  
2847 unique CDR3  
13 unique J



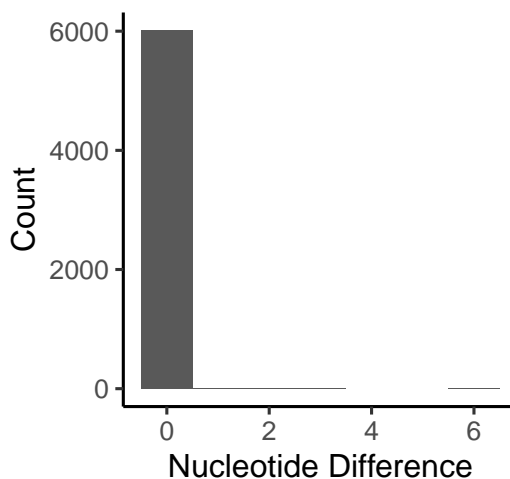
### TRBV16\*ap01

256 sequences assigned  
254 (99.2%) exact matches, in which:  
251 unique CDR3  
13 unique J



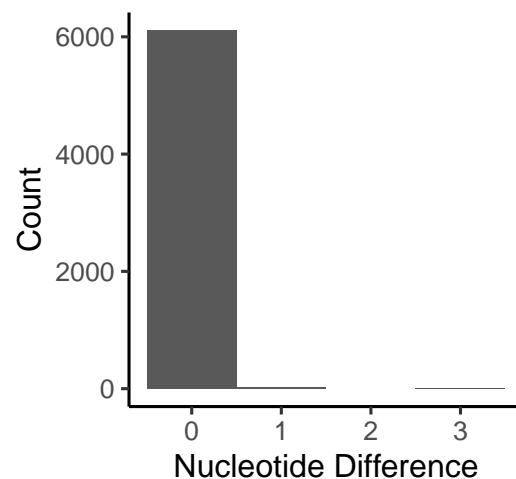
### TRBV2\*ap01

6034 sequences assigned  
6013 (99.7%) exact matches, in which:  
5985 unique CDR3  
13 unique J



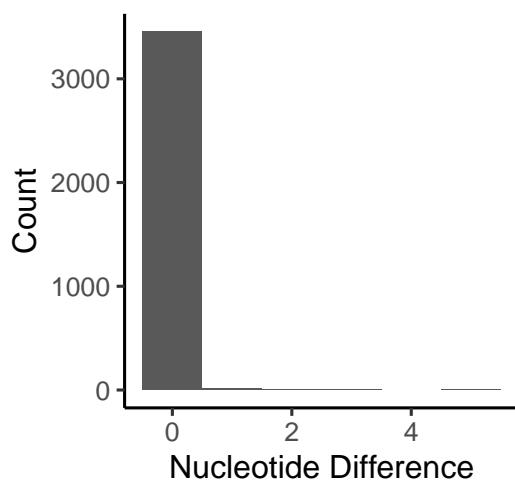
### TRBV28\*ap01\_A297G

6141 sequences assigned  
6109 (99.5%) exact matches, in which:  
6090 unique CDR3  
13 unique J



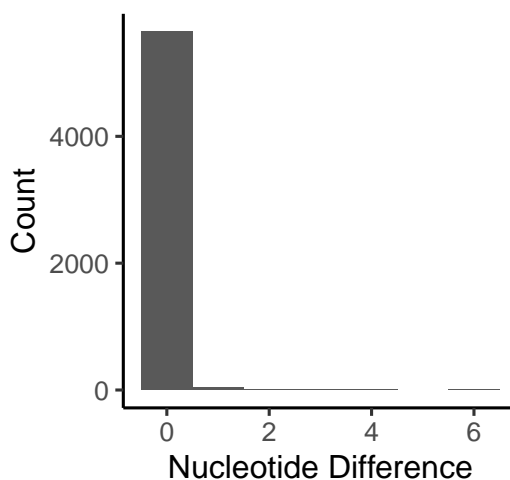
### TRBV18\*ap01

3470 sequences assigned  
3454 (99.5%) exact matches, in which:  
3443 unique CDR3  
13 unique J



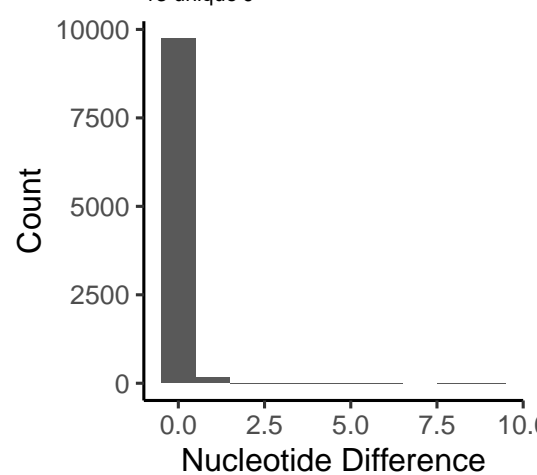
### TRBV27\*ap01

5702 sequences assigned  
5650 (99.1%) exact matches, in which:  
5609 unique CDR3  
13 unique J



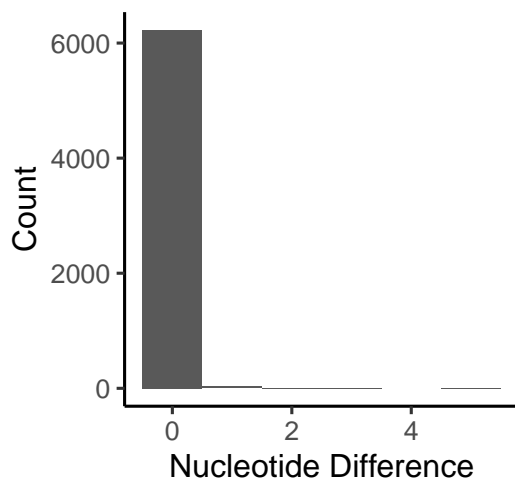
### TRBV30\*ap01

9917 sequences assigned  
9745 (98.3%) exact matches, in which:  
9617 unique CDR3  
13 unique J



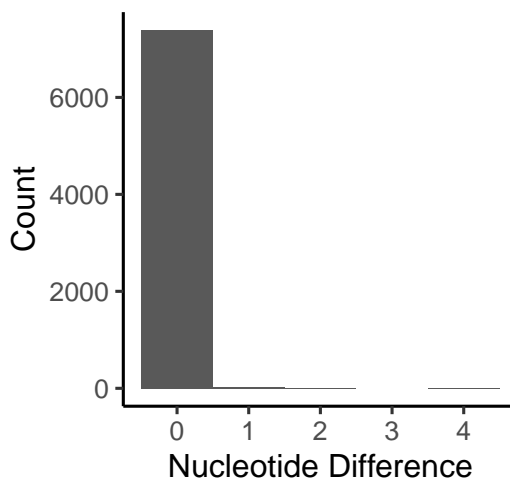
### TRBV19\*ap01

6260 sequences assigned  
6226 (99.5%) exact matches, in which:  
6198 unique CDR3  
13 unique J



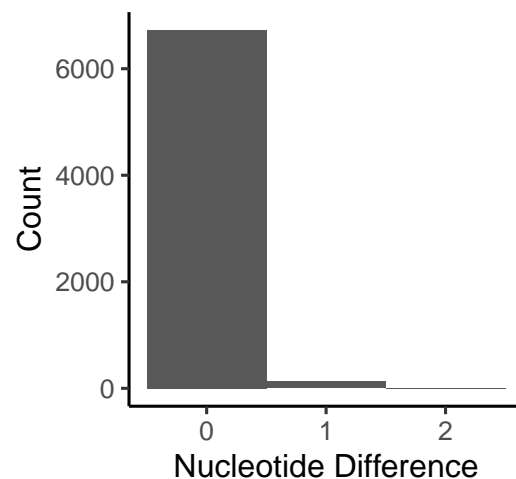
### TRBV28\*ap01

7424 sequences assigned  
7389 (99.5%) exact matches, in which:  
7353 unique CDR3  
13 unique J



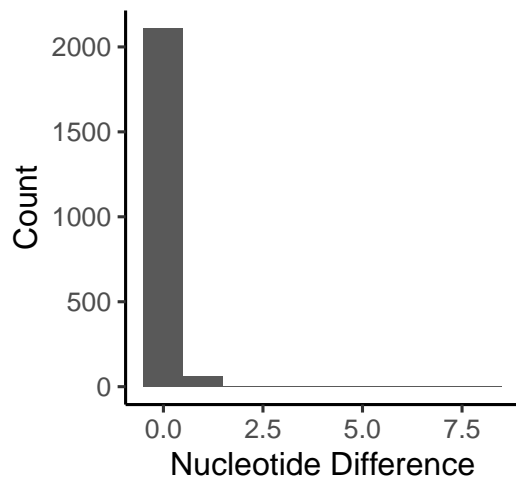
### TRBV9\*ap01

6854 sequences assigned  
6726 (98.1%) exact matches, in which:  
6677 unique CDR3  
14 unique J



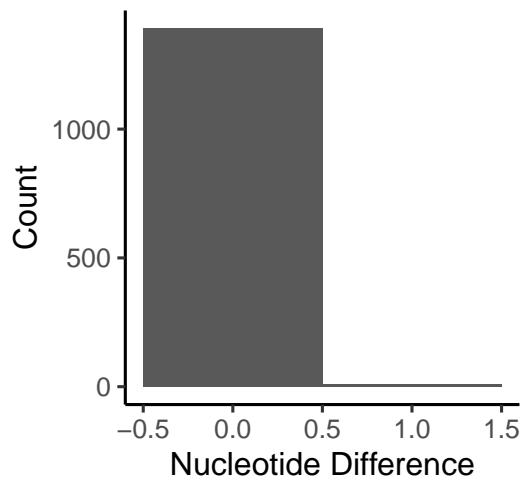
### TRBV21-1\*ap01

2180 sequences assigned  
2109 (96.7%) exact matches, in which:  
2102 unique CDR3  
13 unique J



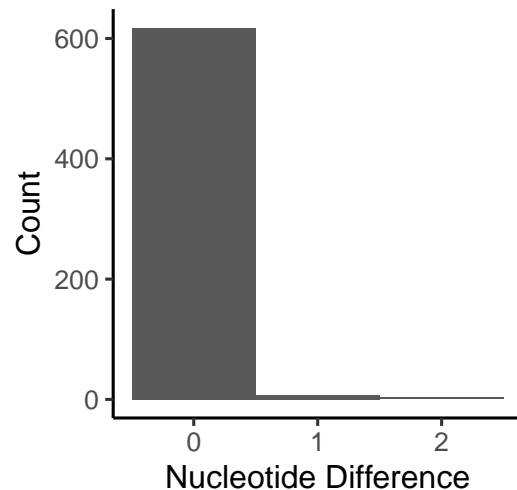
### TRBV11-3\*ap01

1401 sequences assigned  
1391 (99.3%) exact matches, in which:  
1388 unique CDR3  
13 unique J



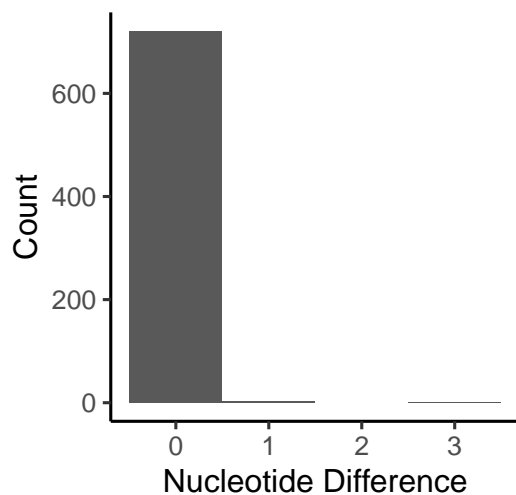
### TRBV12-5\*ap01

629 sequences assigned  
618 (98.3%) exact matches, in which:  
615 unique CDR3  
13 unique J



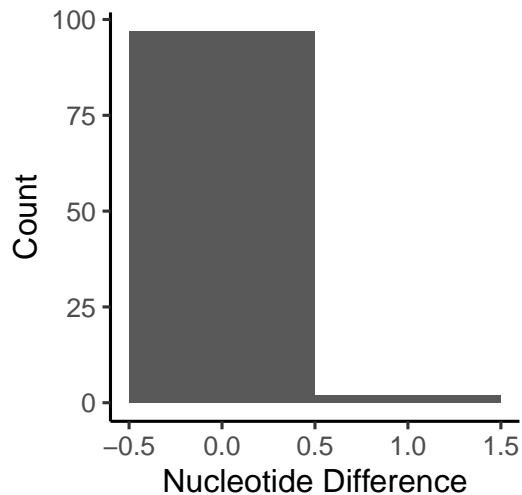
### TRBV11-1\*ap01

724 sequences assigned  
721 (99.6%) exact matches, in which:  
720 unique CDR3  
13 unique J



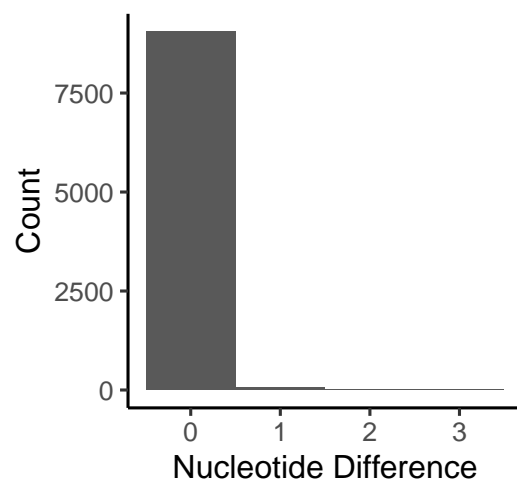
### TRBV12-1\*ap01

99 sequences assigned  
97 (98%) exact matches, in which:  
97 unique CDR3  
12 unique J



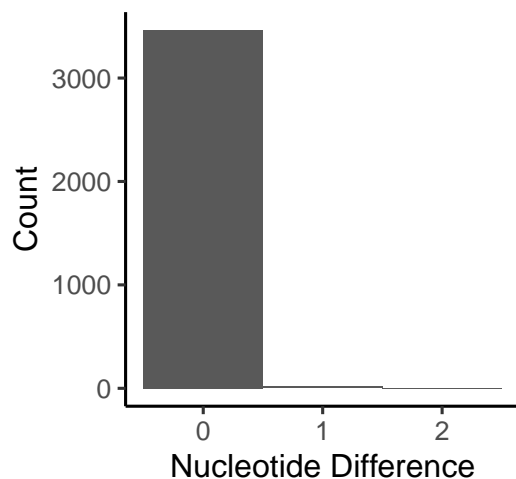
### TRBV12-34\*ap01

9118 sequences assigned  
9048 (99.2%) exact matches, in which:  
9013 unique CDR3  
13 unique J



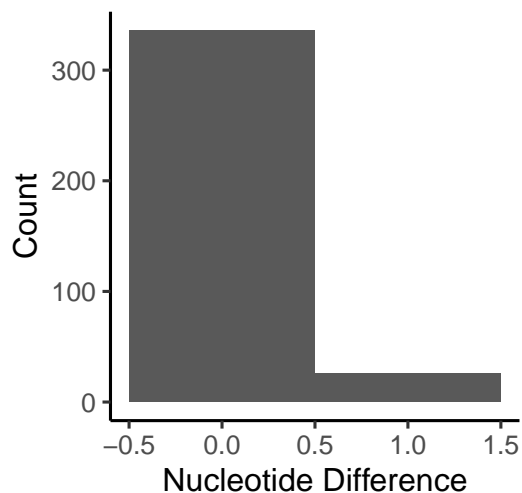
### TRBV11-2\*ap01

3482 sequences assigned  
3464 (99.5%) exact matches, in which:  
3448 unique CDR3  
13 unique J



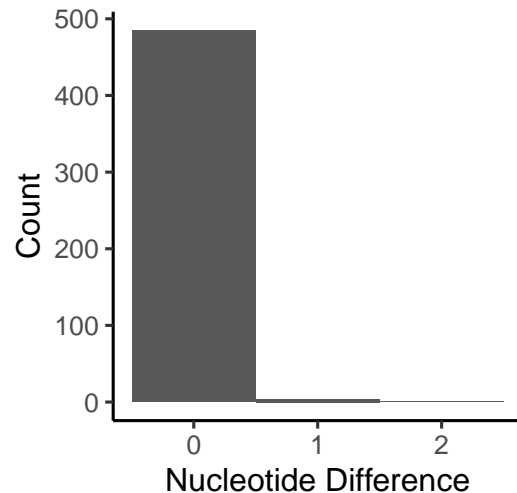
### TRBV12-2\*ap01

362 sequences assigned  
336 (92.8%) exact matches, in which:  
335 unique CDR3  
13 unique J



### TRBV23-1\*ap01

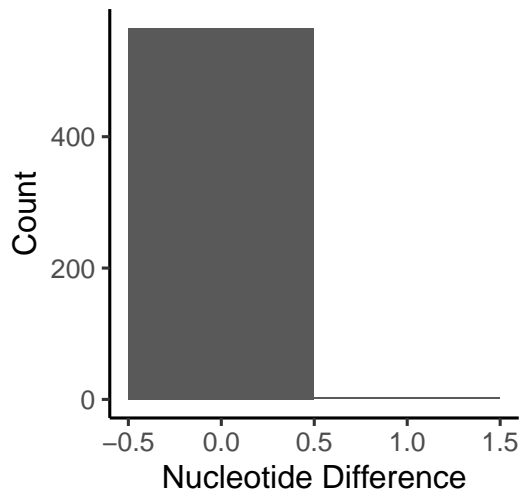
490 sequences assigned  
485 (99%) exact matches, in which:  
484 unique CDR3  
13 unique J





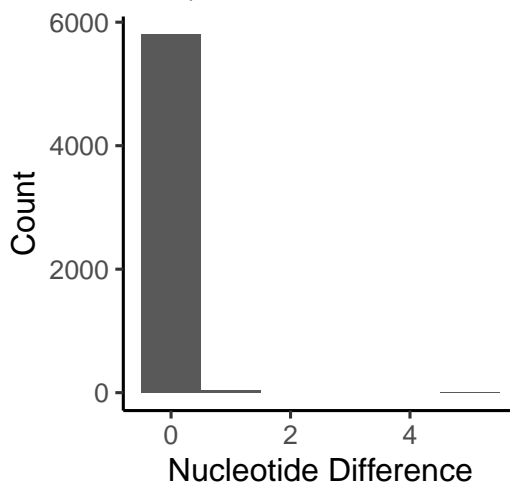
### TRBV23–1\*ap01\_T304C

569 sequences assigned  
566 (99.5%) exact matches, in which:  
561 unique CDR3  
13 unique J



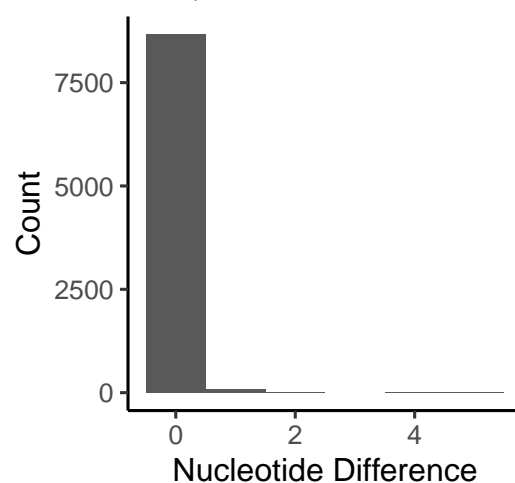
### TRBV4–1\*ap01

5841 sequences assigned  
5802 (99.3%) exact matches, in which:  
5752 unique CDR3  
13 unique J



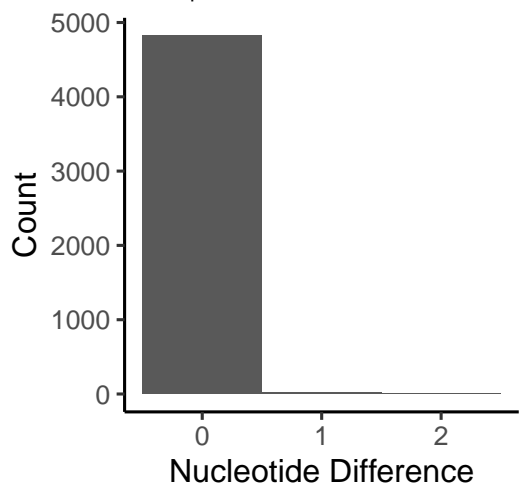
### TRBV5–1\*ap01

8757 sequences assigned  
8666 (99%) exact matches, in which:  
8623 unique CDR3  
13 unique J



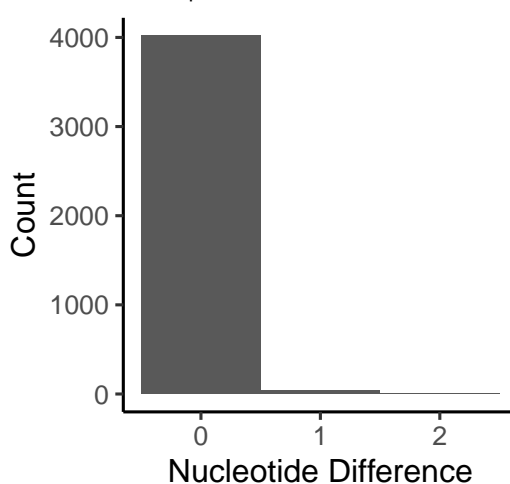
### TRBV3–12\*ap01

4843 sequences assigned  
4822 (99.6%) exact matches, in which:  
4816 unique CDR3  
13 unique J



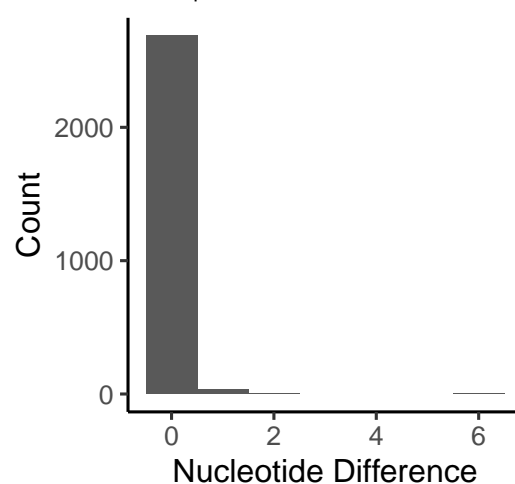
### TRBV4–2\*ap01

4060 sequences assigned  
4019 (99%) exact matches, in which:  
3990 unique CDR3  
13 unique J



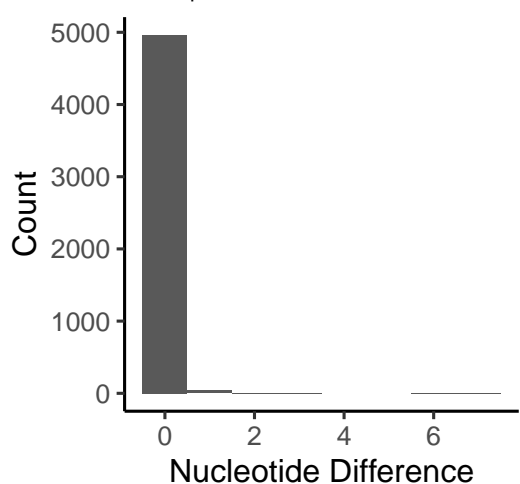
### TRBV25–1\*ap01

2723 sequences assigned  
2687 (98.7%) exact matches, in which:  
2655 unique CDR3  
13 unique J



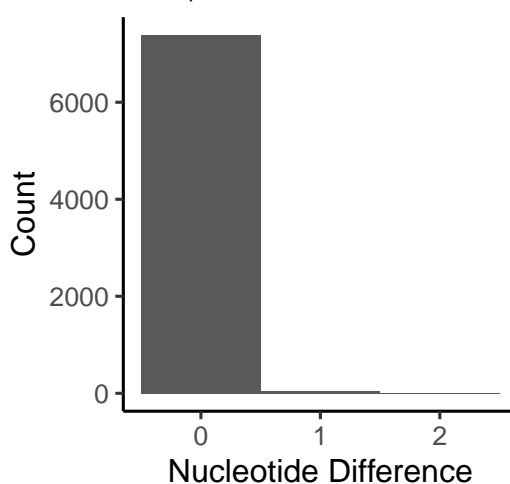
### TRBV24–1\*ap01

5012 sequences assigned  
4962 (99%) exact matches, in which:  
4921 unique CDR3  
13 unique J



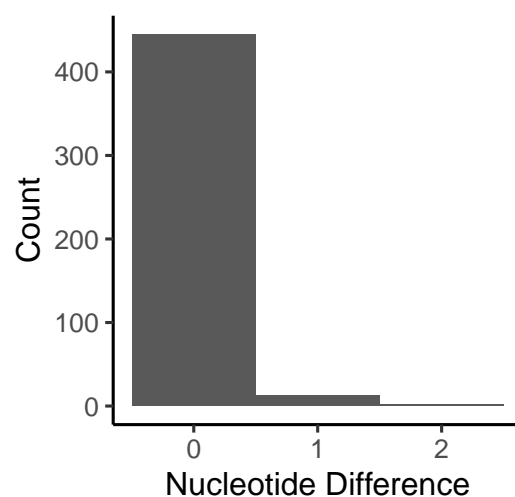
### TRBV4–3\*ap01

7436 sequences assigned  
7385 (99.3%) exact matches, in which:  
7329 unique CDR3  
13 unique J



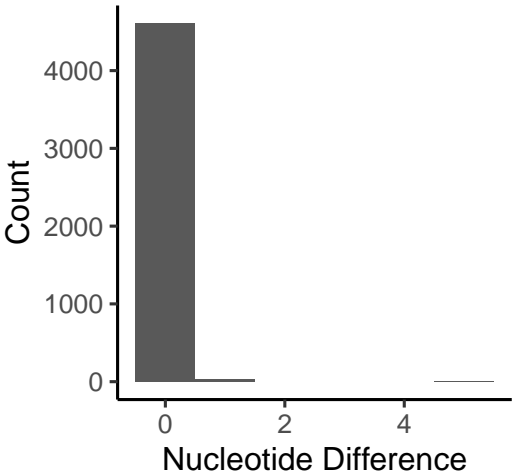
### TRBV5–3\*ap01

460 sequences assigned  
445 (96.7%) exact matches, in which:  
441 unique CDR3  
13 unique J



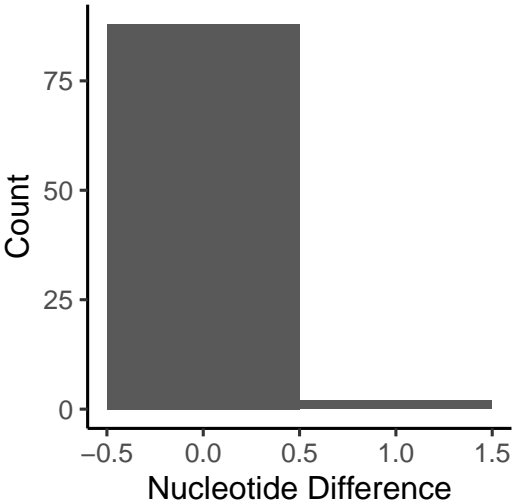
TRBV5-4\*ap01

4634 sequences assigned  
4607 (99.4%) exact matches, in which:  
4591 unique CDR3  
14 unique J



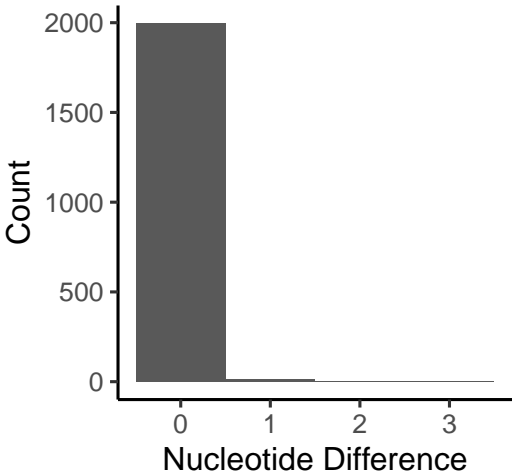
TRBV5-7\*ap01

90 sequences assigned  
88 (97.8%) exact matches, in which:  
87 unique CDR3  
12 unique J



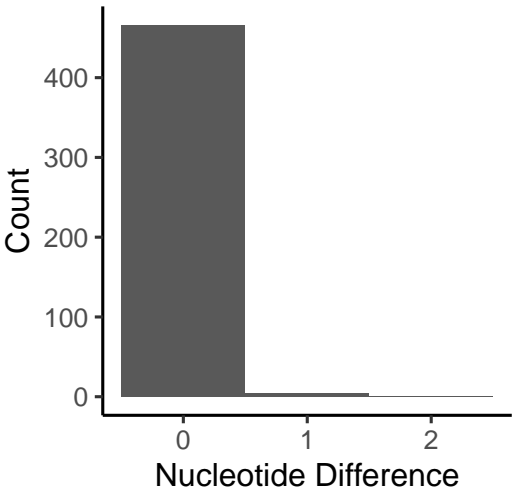
TRBV6-4\*ap01

2016 sequences assigned  
1996 (99%) exact matches, in which:  
1991 unique CDR3  
13 unique J



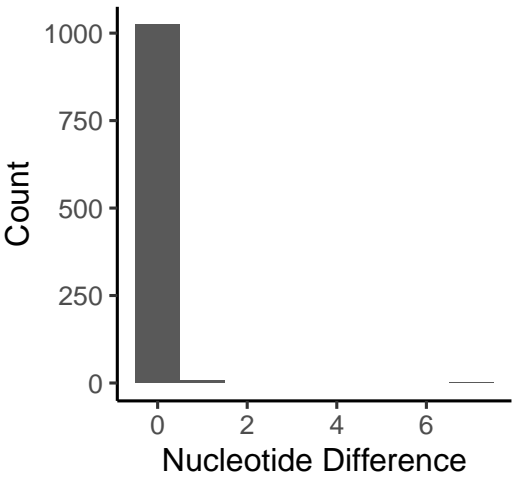
TRBV5-5\*ap01

471 sequences assigned  
466 (98.9%) exact matches, in which:  
466 unique CDR3  
13 unique J



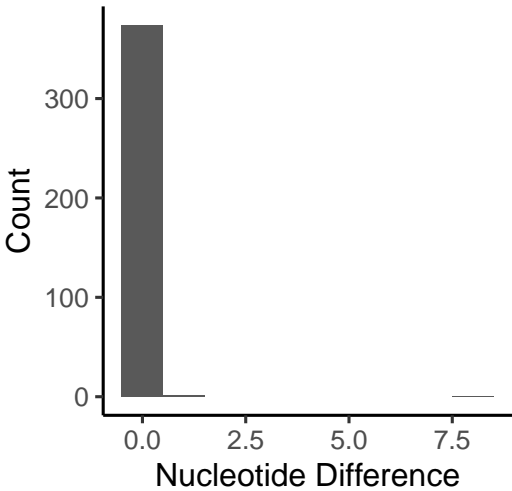
TRBV5-8\*ap01

1031 sequences assigned  
1024 (99.3%) exact matches, in which:  
1022 unique CDR3  
13 unique J



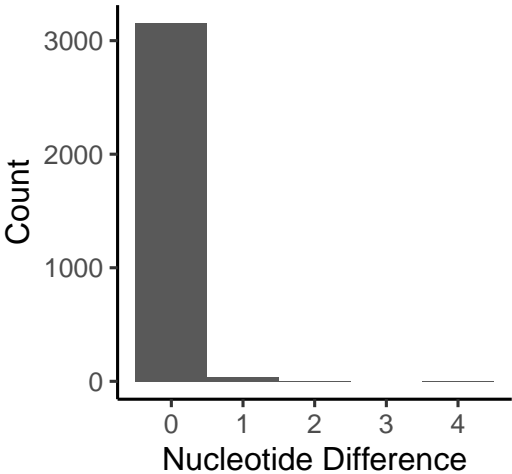
TRBV6-7\*ap01

377 sequences assigned  
374 (99.2%) exact matches, in which:  
363 unique CDR3  
13 unique J



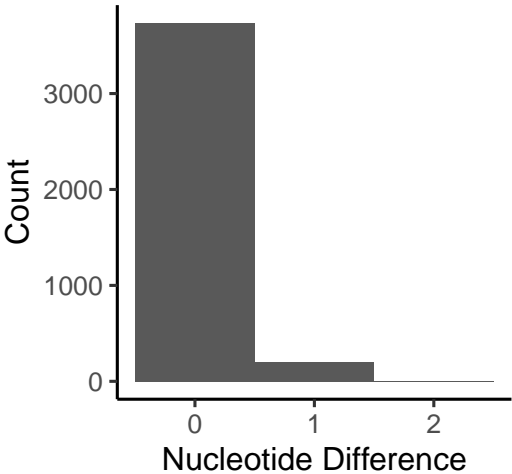
TRBV5-6\*ap01

3194 sequences assigned  
3155 (98.8%) exact matches, in which:  
3128 unique CDR3  
13 unique J



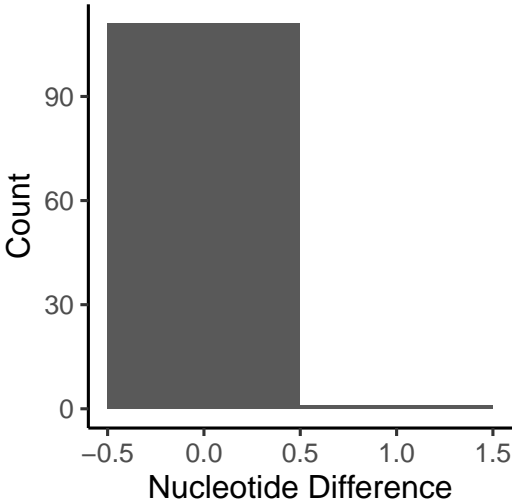
TRBV6-1\*ap01

3937 sequences assigned  
3735 (94.9%) exact matches, in which:  
3706 unique CDR3  
13 unique J



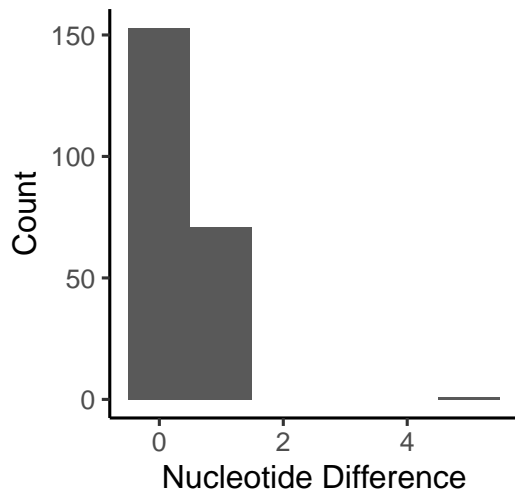
TRBV6-8\*ap01

112 sequences assigned  
111 (99.1%) exact matches, in which:  
111 unique CDR3  
13 unique J



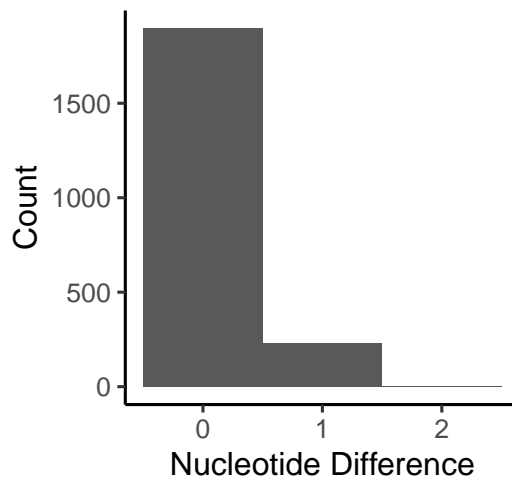
### TRBV6-9\*ap01

225 sequences assigned  
153 (68%) exact matches, in which:  
153 unique CDR3  
13 unique J



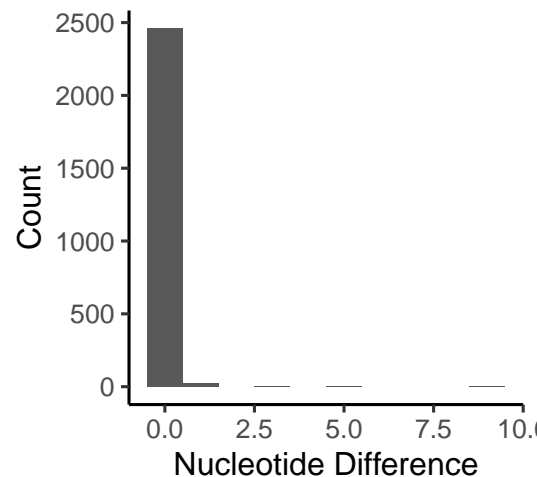
### TRBV6-56\*ap02

2130 sequences assigned  
1896 (89%) exact matches, in which:  
1874 unique CDR3  
13 unique J



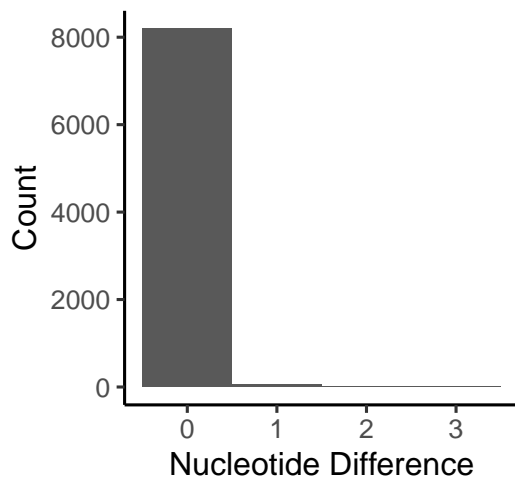
### TRBV7-3\*ap01

2491 sequences assigned  
2460 (98.8%) exact matches, in which:  
2449 unique CDR3  
13 unique J



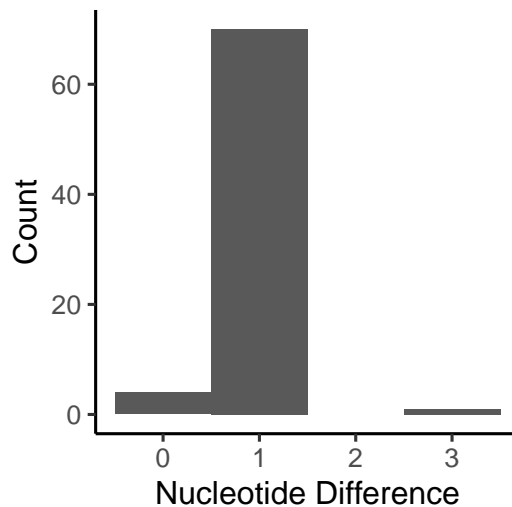
### TRBV6-23\*ap01

8244 sequences assigned  
8194 (99.4%) exact matches, in which:  
8133 unique CDR3  
13 unique J



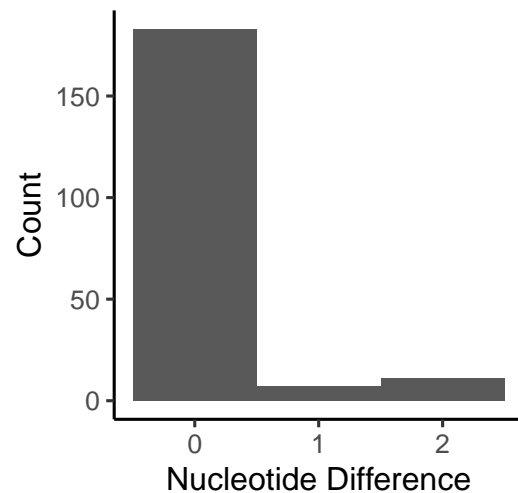
### TRBV7-1\*ap01\_T296C

75 sequences assigned  
4 (5.3%) exact matches, in which:  
4 unique CDR3  
3 unique J



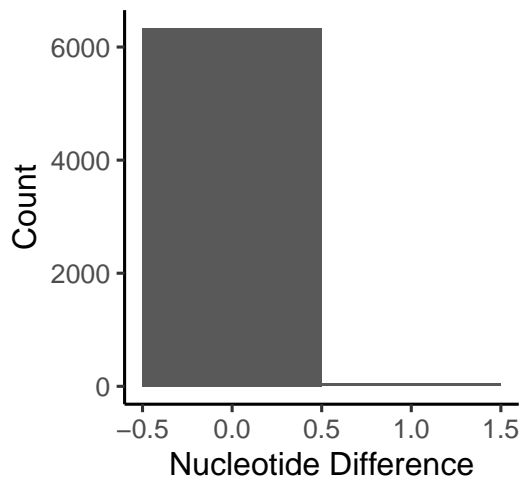
### TRBV7-4\*ap01

201 sequences assigned  
183 (91%) exact matches, in which:  
181 unique CDR3  
13 unique J



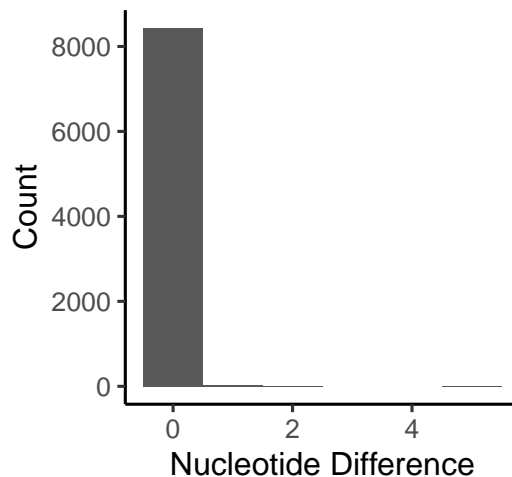
### TRBV6-56\*ap01

6386 sequences assigned  
6336 (99.2%) exact matches, in which:  
6276 unique CDR3  
13 unique J



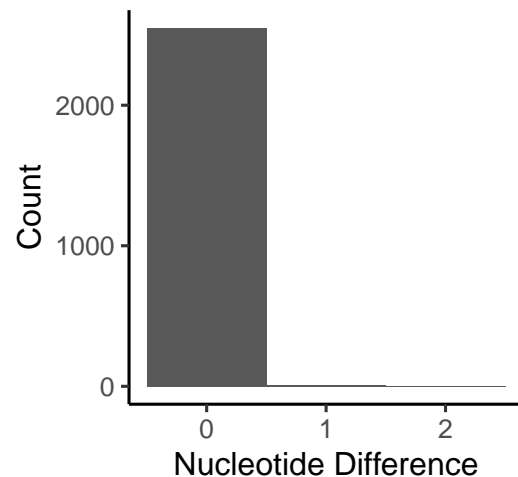
### TRBV7-2\*ap01

8461 sequences assigned  
8433 (99.7%) exact matches, in which:  
8391 unique CDR3  
14 unique J



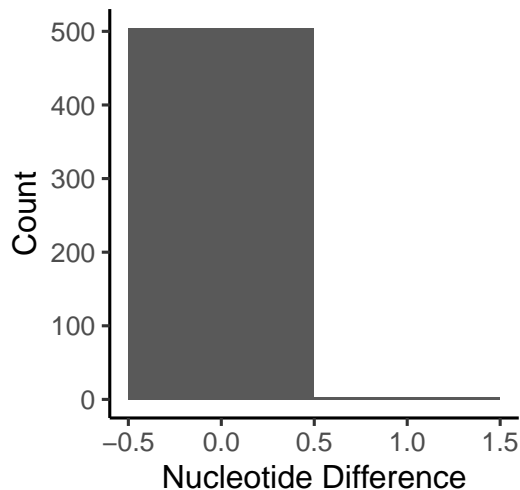
### TRBV7-6\*ap01

2559 sequences assigned  
2549 (99.6%) exact matches, in which:  
2526 unique CDR3  
13 unique J



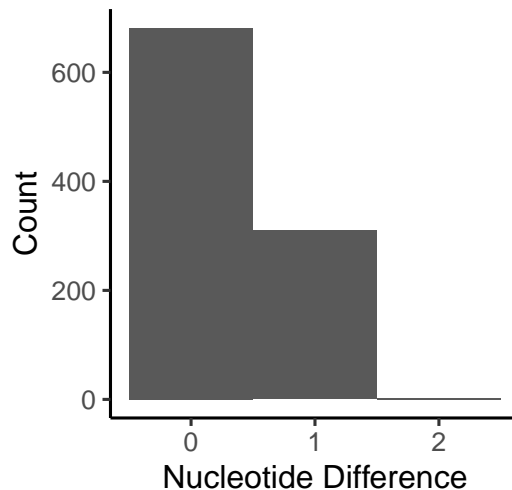
### TRBV7-7\*ap01

508 sequences assigned  
505 (99.4%) exact matches, in which:  
500 unique CDR3  
13 unique J



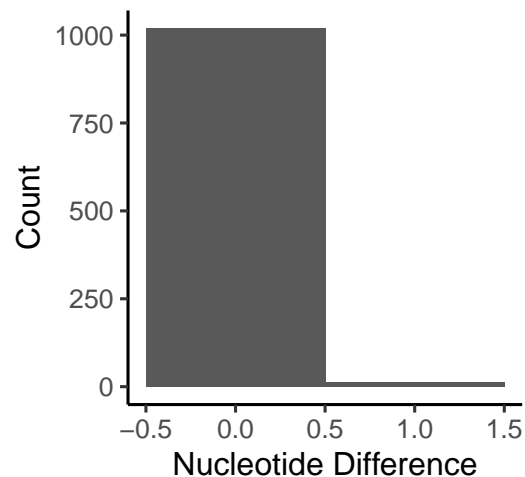
### TRBV7-8\*ap03

994 sequences assigned  
682 (68.6%) exact matches, in which:  
677 unique CDR3  
13 unique J



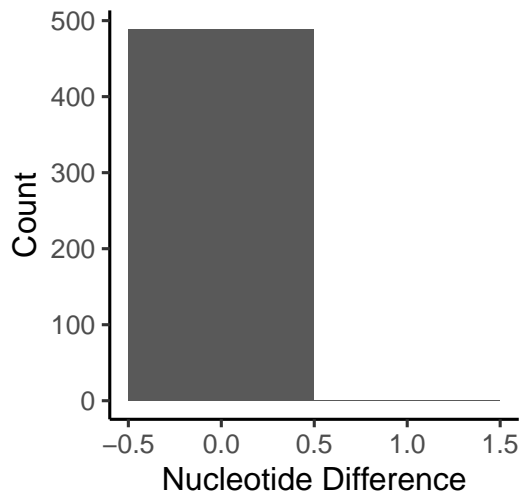
### TRBV29-1\*ap02

1033 sequences assigned  
1019 (98.6%) exact matches, in which:  
1000 unique CDR3  
13 unique J



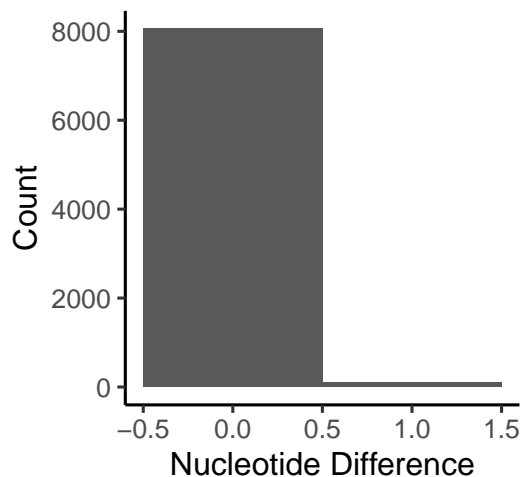
### TRBV7-7\*ap01\_C315T

490 sequences assigned  
489 (99.8%) exact matches, in which:  
480 unique CDR3  
13 unique J



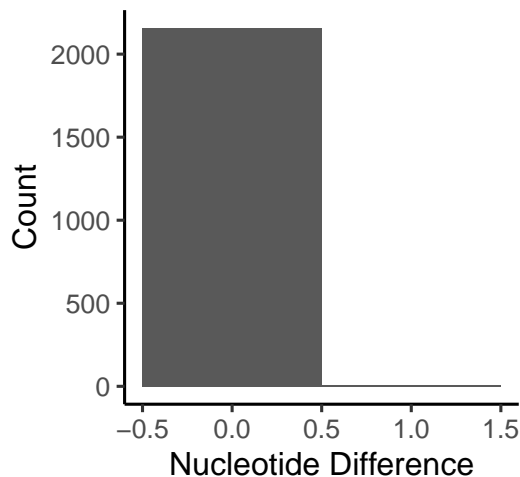
### TRBV7-9\*ap01

8165 sequences assigned  
8058 (98.7%) exact matches, in which:  
8024 unique CDR3  
13 unique J



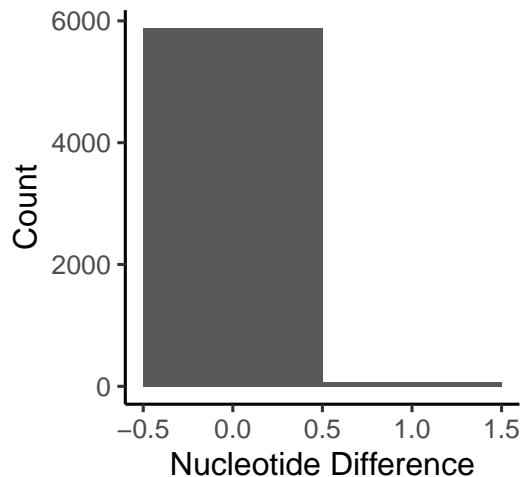
### TRBV7-8\*ap01

2165 sequences assigned  
2157 (99.6%) exact matches, in which:  
2141 unique CDR3  
13 unique J

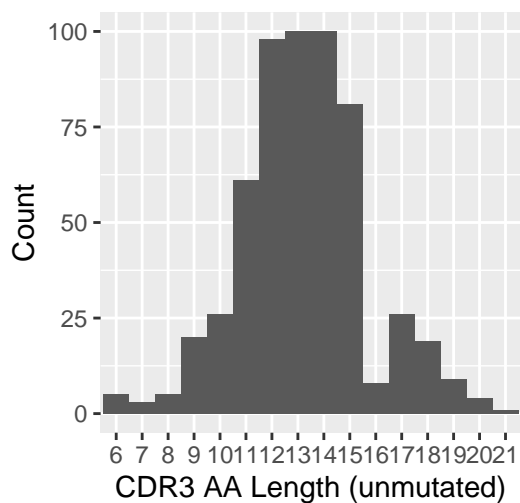


### TRBV29-1\*ap01

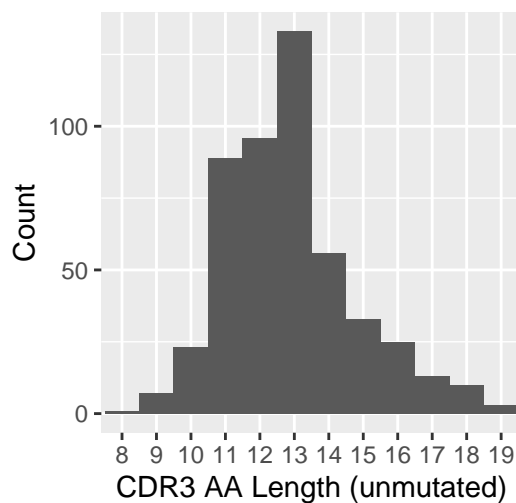
5951 sequences assigned  
5882 (98.8%) exact matches, in which:  
5778 unique CDR3  
13 unique J



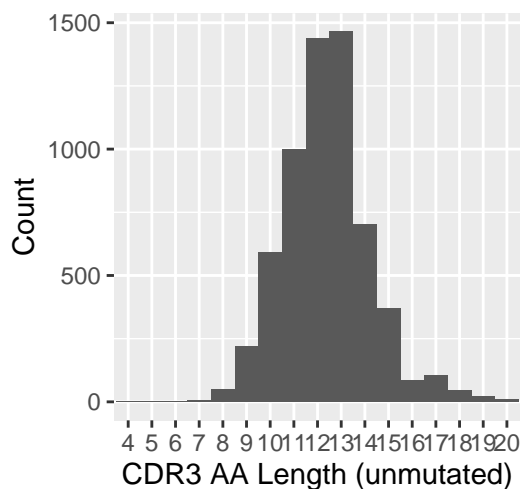
TRBV23-1\*ap01\_T304C



TRBV7-7\*ap01\_C315T



TRBV28\*ap01\_A297G



TRBV7-1\*ap01\_T296C

