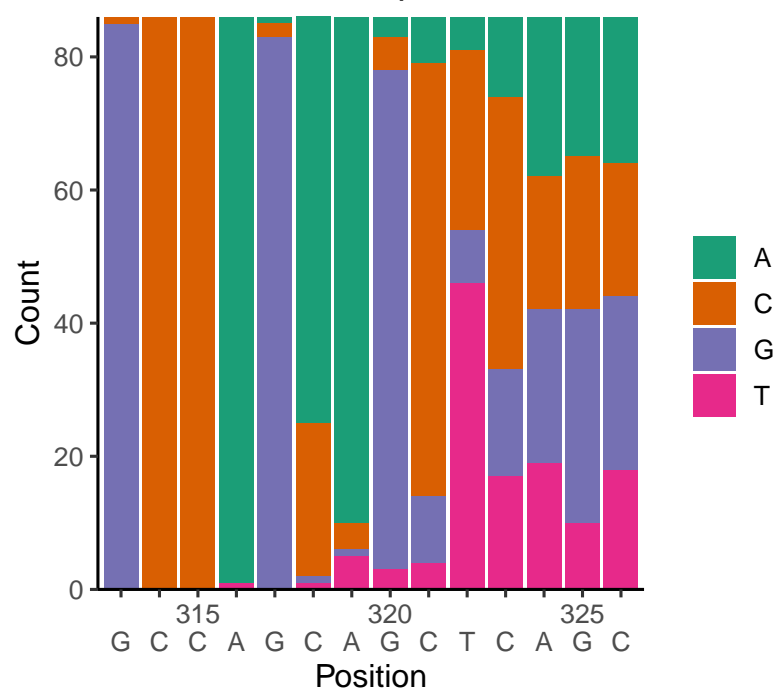
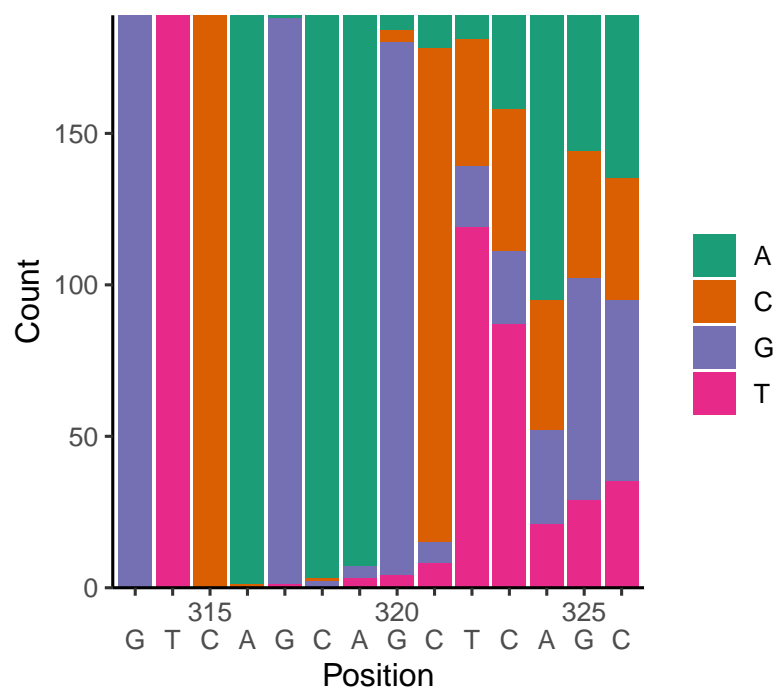


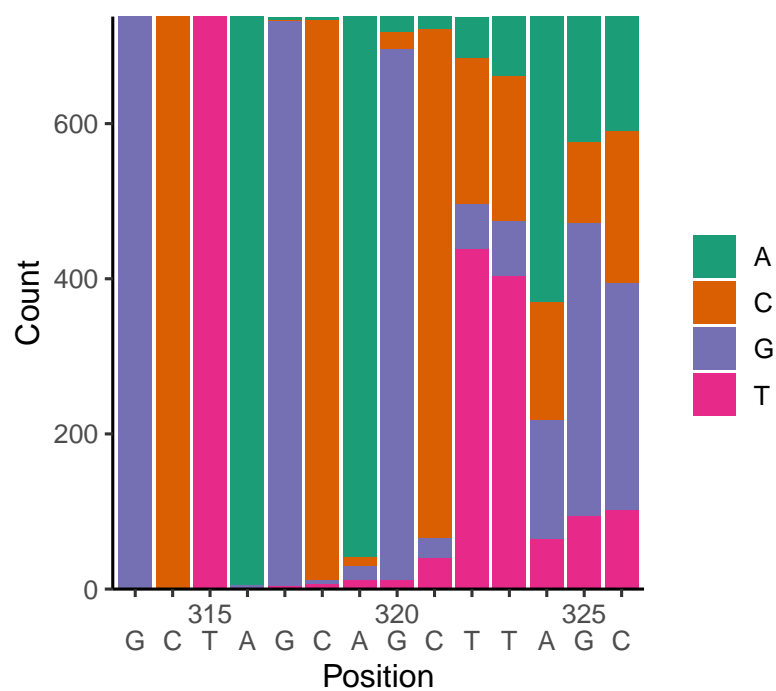
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-1\*ap01\_T296C\_C314T



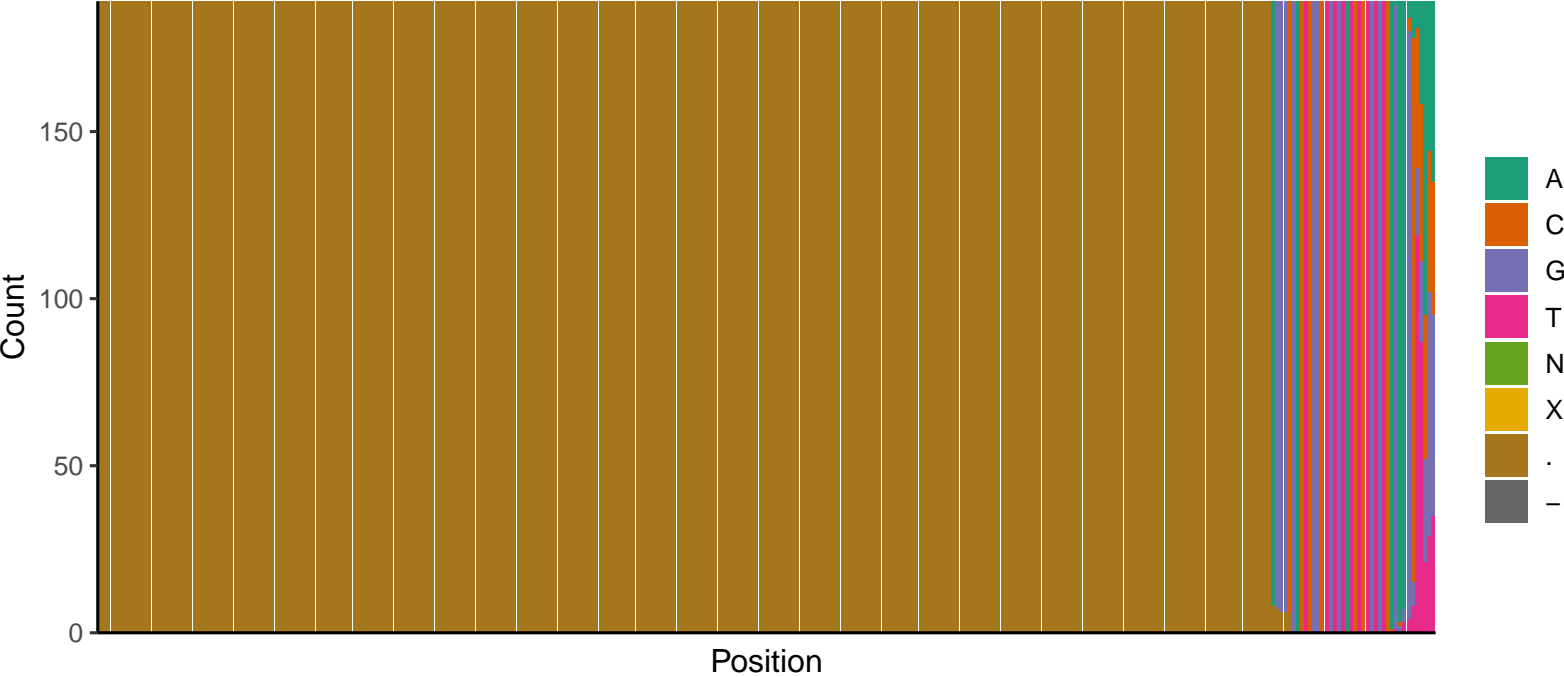
Gene TRBV7-7\*ap01\_C315T



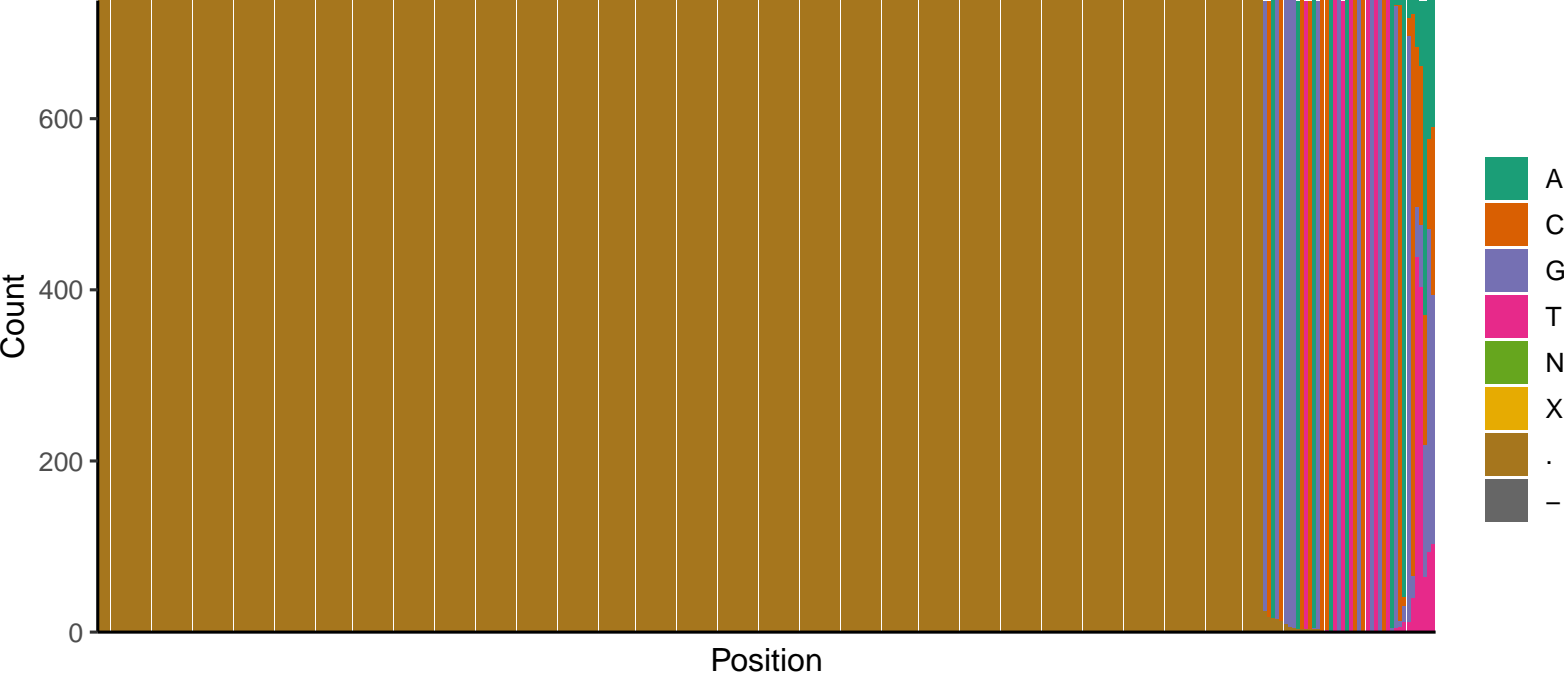
Gene TRBV7-1\*ap01\_T296C



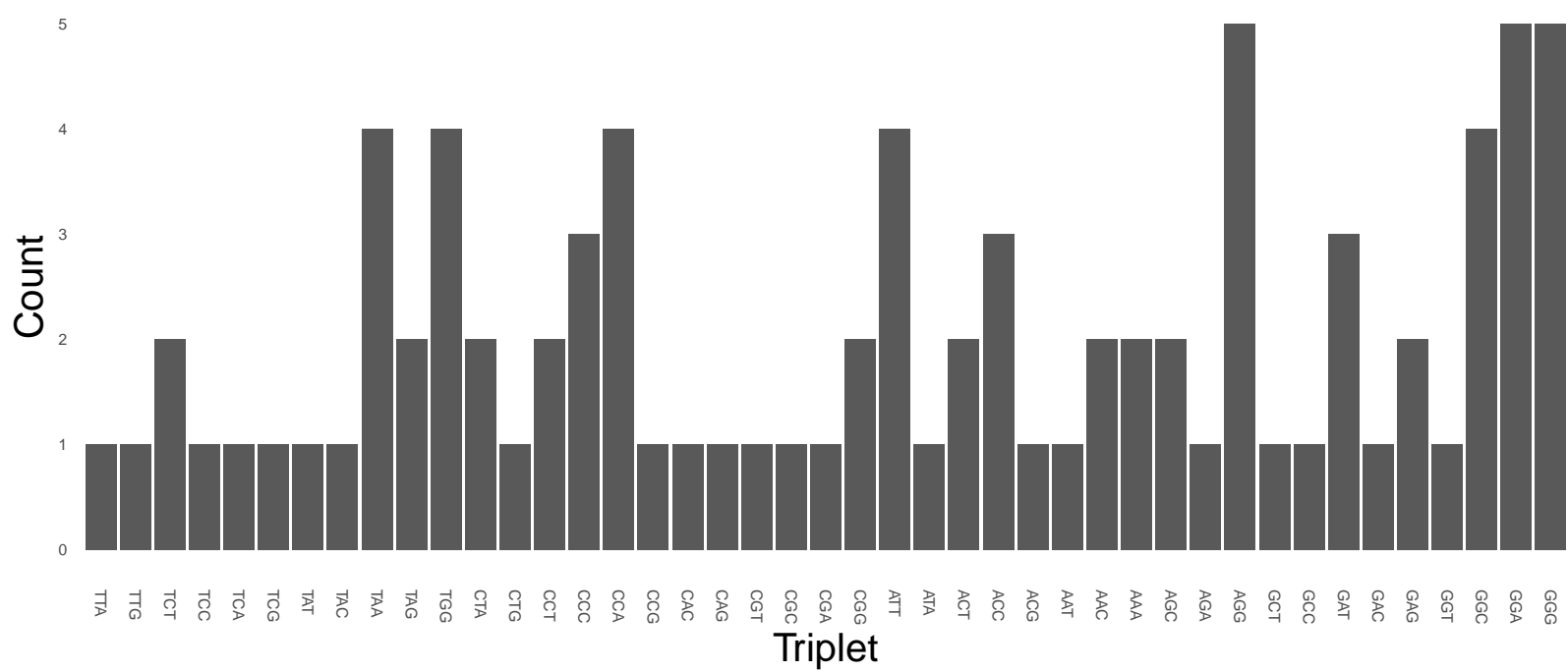
Gene TRBV7-1\*ap01\_T296C\_C314T



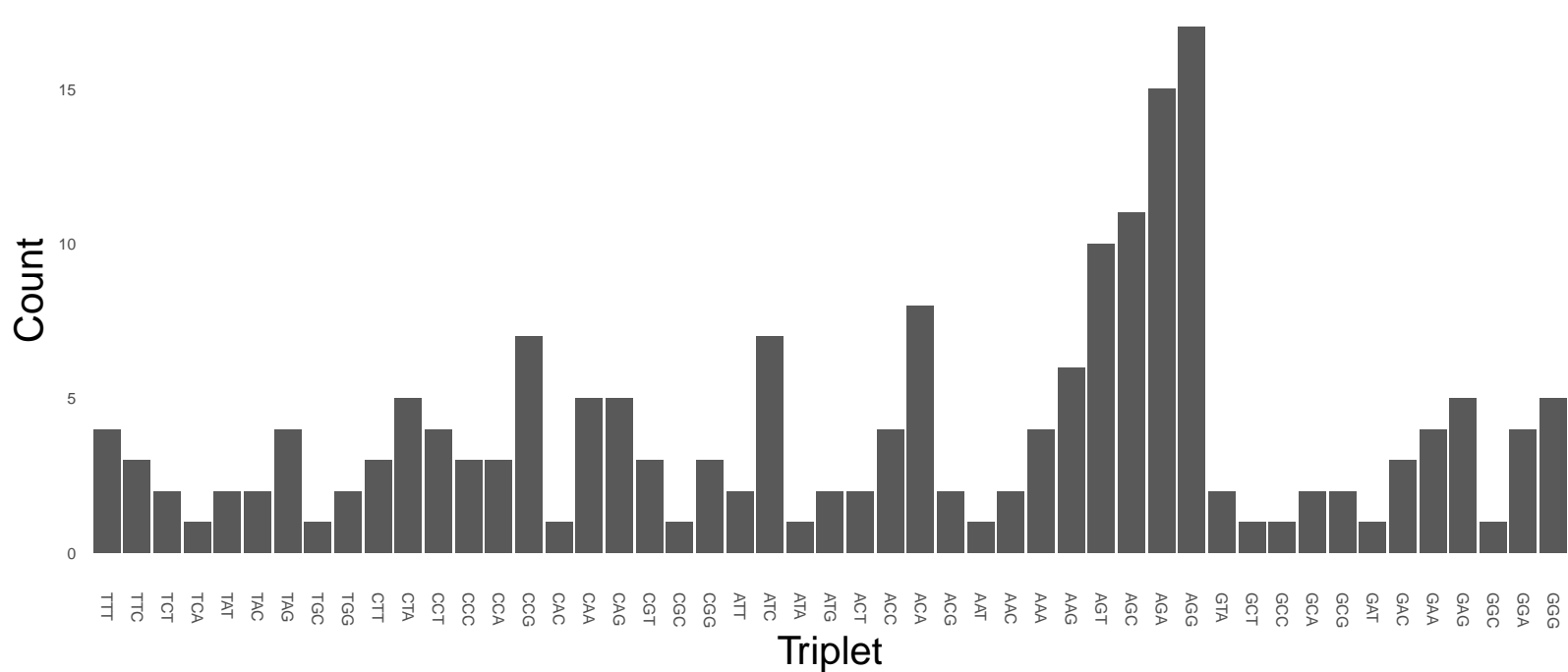
Gene TRBV7-7\*ap01\_C315T



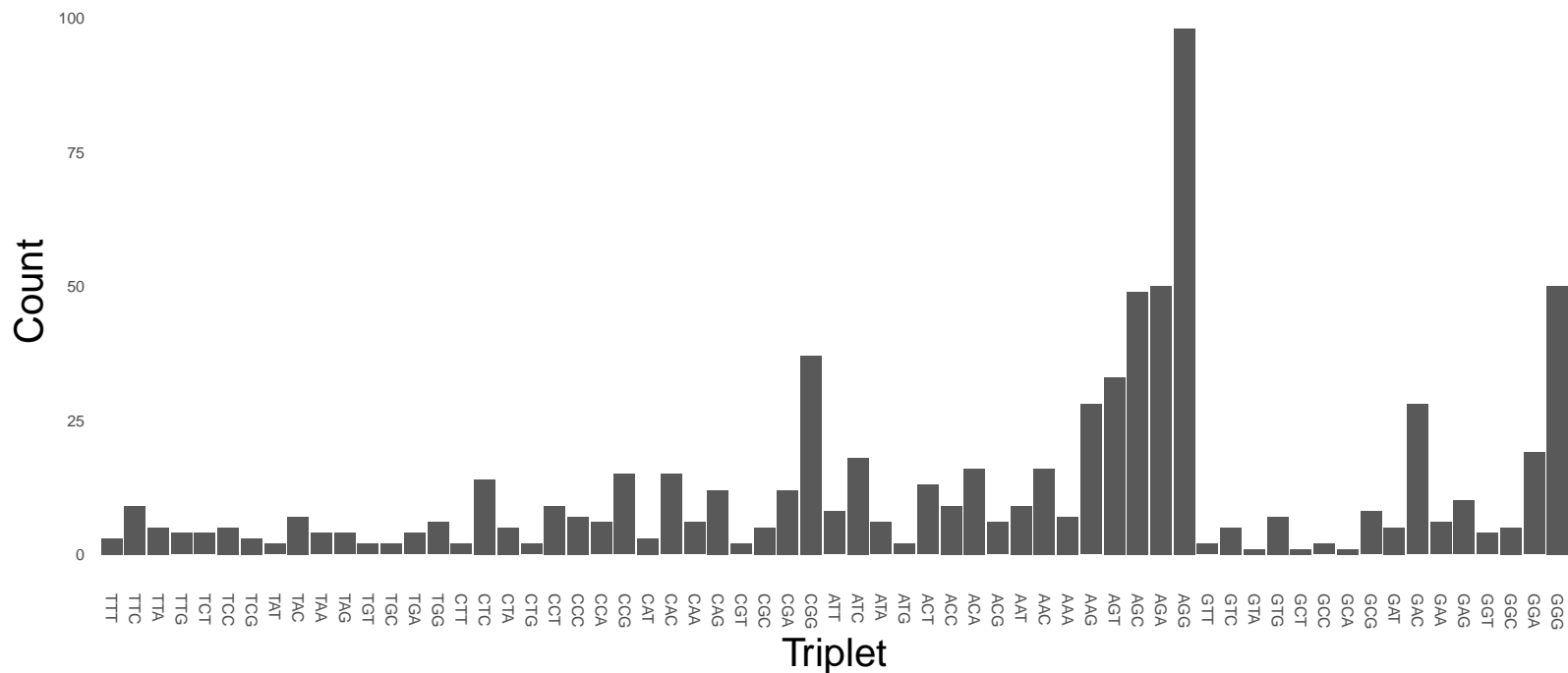
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



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

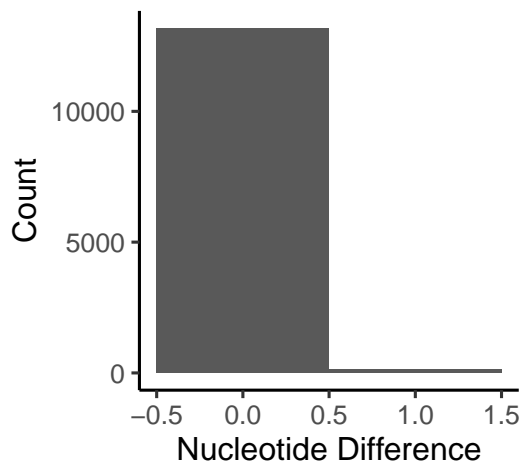


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



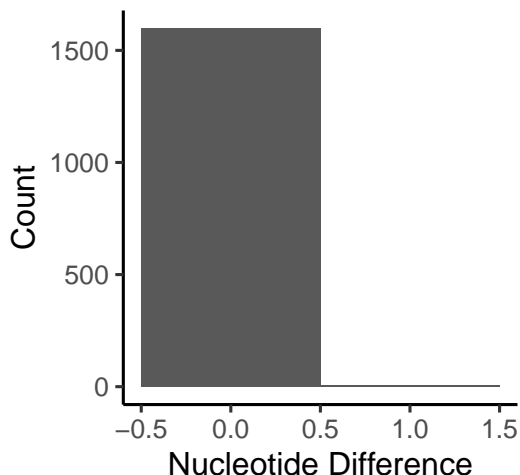
### TRBV20-1\*ap01

13312 sequences assigned  
13181 (99%) exact matches, in which:  
13015 unique CDR3  
13 unique J



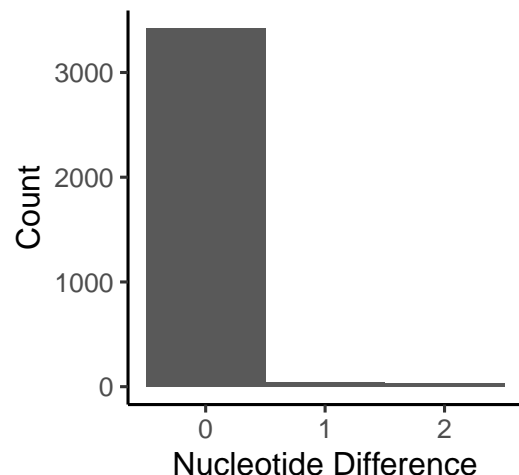
### TRBV10-2\*ap01

1603 sequences assigned  
1598 (99.7%) exact matches, in which:  
1574 unique CDR3  
13 unique J



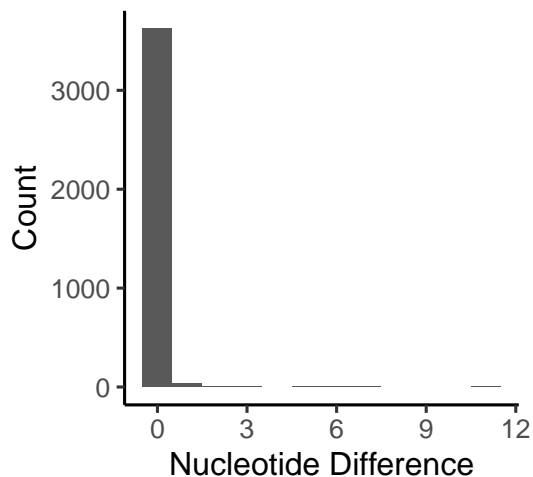
### TRBV13\*ap01

3494 sequences assigned  
3421 (97.9%) exact matches, in which:  
3323 unique CDR3  
13 unique J



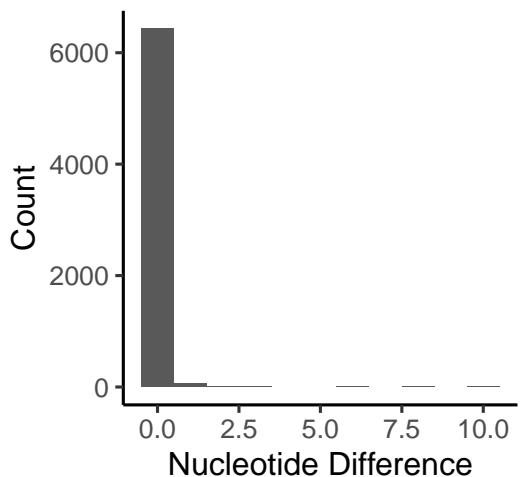
### TRBV10-1\*ap01

3663 sequences assigned  
3623 (98.9%) exact matches, in which:  
3553 unique CDR3  
14 unique J



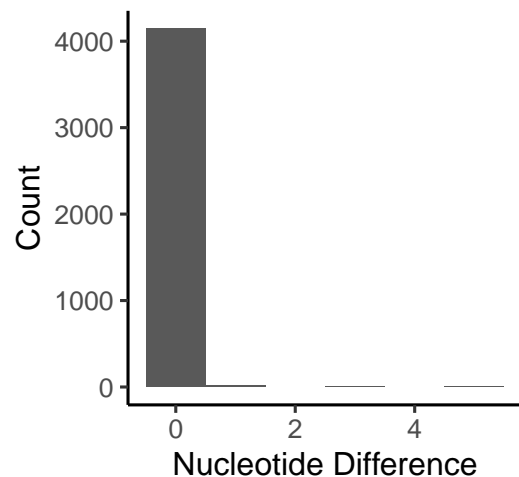
### TRBV10-3\*ap01

6509 sequences assigned  
6431 (98.8%) exact matches, in which:  
6308 unique CDR3  
13 unique J



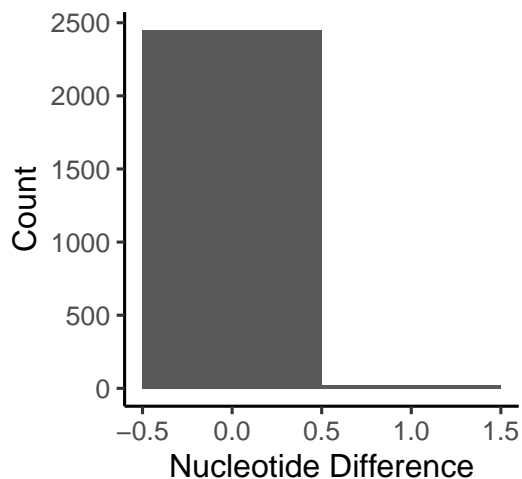
### TRBV14\*ap01

4166 sequences assigned  
4144 (99.5%) exact matches, in which:  
4082 unique CDR3  
13 unique J



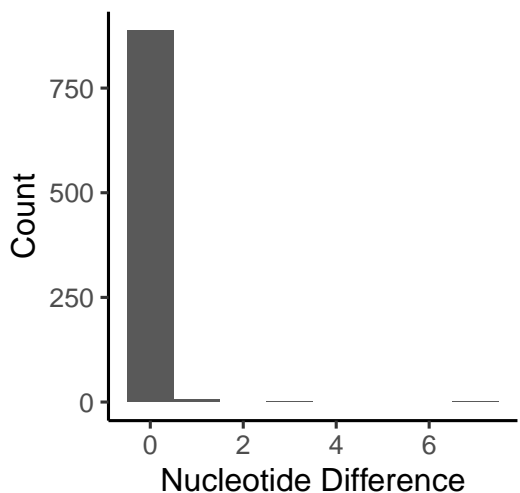
### TRBV20-1\*ap02

2471 sequences assigned  
2450 (99.2%) exact matches, in which:  
2415 unique CDR3  
13 unique J



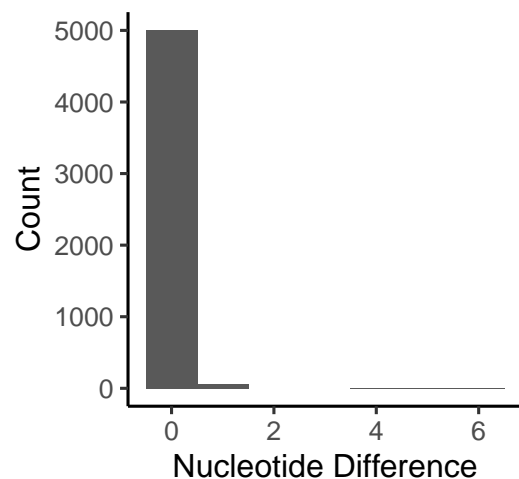
### TRBV1\*ap01

896 sequences assigned  
888 (99.1%) exact matches, in which:  
875 unique CDR3  
13 unique J



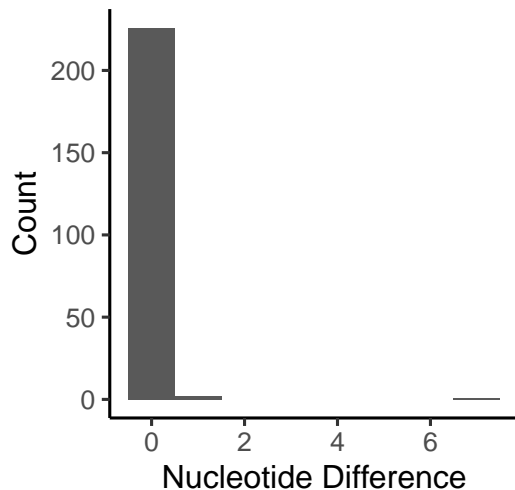
### TRBV15\*ap02

5069 sequences assigned  
5005 (98.7%) exact matches, in which:  
4901 unique CDR3  
13 unique J



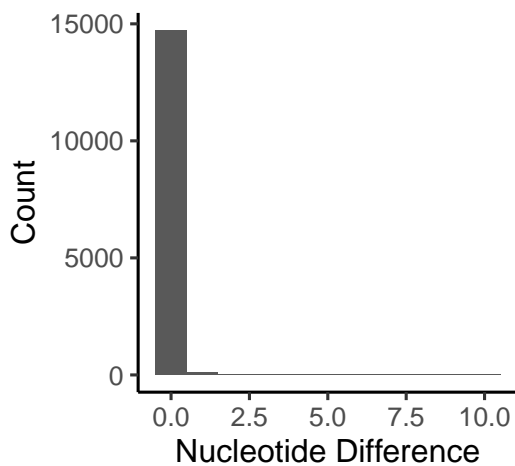
### TRBV16\*ap01

229 sequences assigned  
226 (98.7%) exact matches, in which:  
225 unique CDR3  
13 unique J



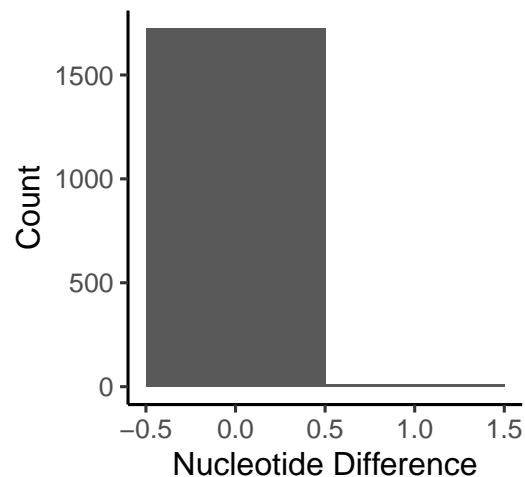
### TRBV19\*ap01

14878 sequences assigned  
14730 (99%) exact matches, in which:  
14596 unique CDR3  
13 unique J



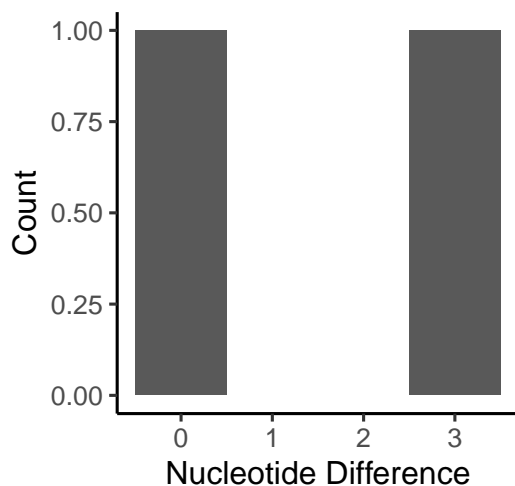
### TRBV28\*ap01

1737 sequences assigned  
1724 (99.3%) exact matches, in which:  
1689 unique CDR3  
13 unique J



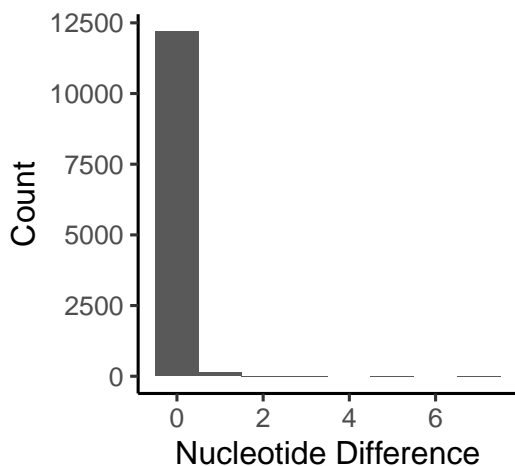
### TRBV17\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



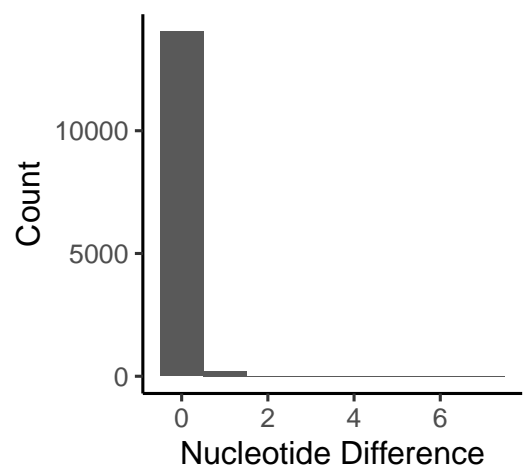
### TRBV2\*ap01

12343 sequences assigned  
12195 (98.8%) exact matches, in which:  
11921 unique CDR3  
13 unique J



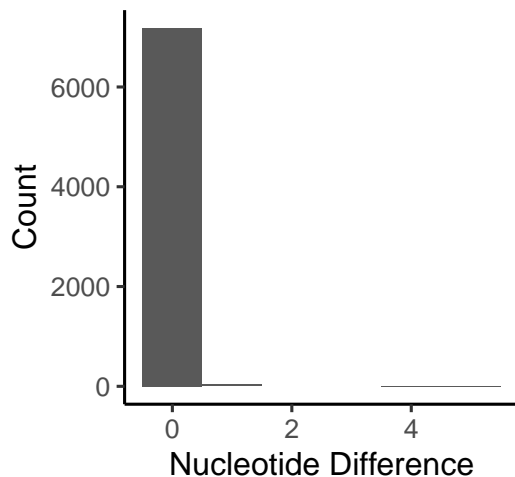
### TRBV30\*ap01

14276 sequences assigned  
14043 (98.4%) exact matches, in which:  
13837 unique CDR3  
13 unique J



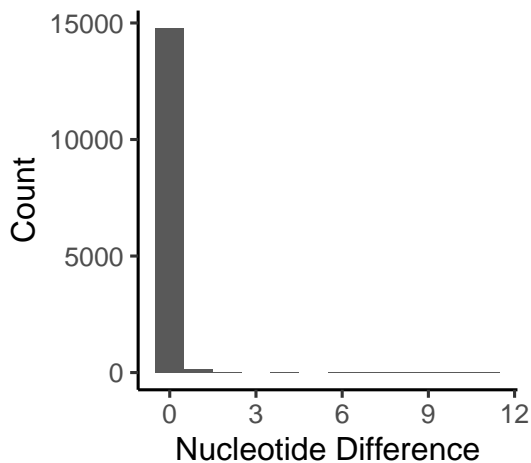
### TRBV18\*ap01

7221 sequences assigned  
7181 (99.4%) exact matches, in which:  
7122 unique CDR3  
13 unique J



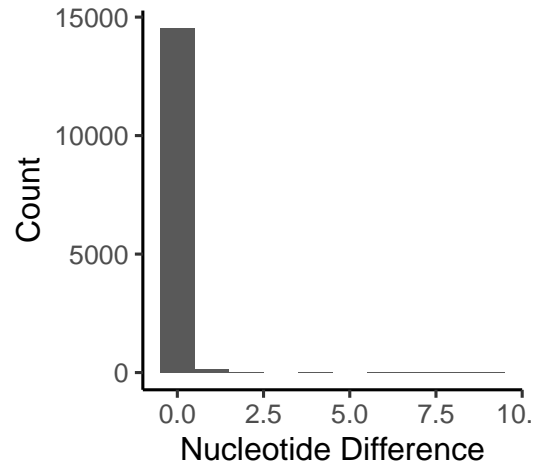
### TRBV27\*ap01

14986 sequences assigned  
14793 (98.7%) exact matches, in which:  
14455 unique CDR3  
13 unique J



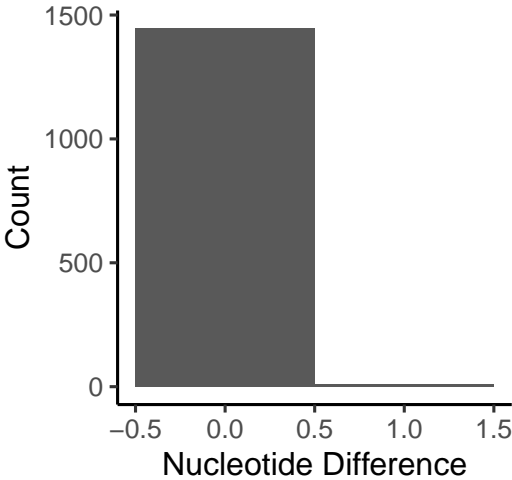
### TRBV9\*ap01

14683 sequences assigned  
14549 (99.1%) exact matches, in which:  
14323 unique CDR3  
13 unique J



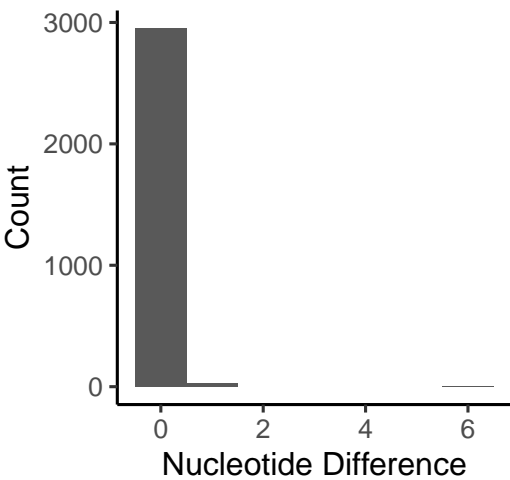
TRBV11-1\*ap01

1455 sequences assigned  
1446 (99.4%) exact matches, in which:  
1414 unique CDR3  
13 unique J



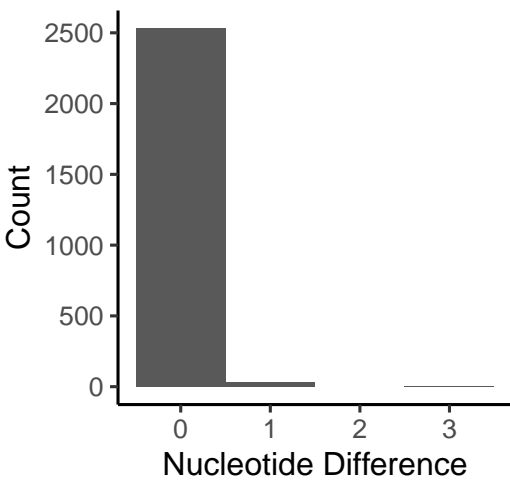
TRBV11-3\*ap01

2977 sequences assigned  
2951 (99.1%) exact matches, in which:  
2905 unique CDR3  
13 unique J



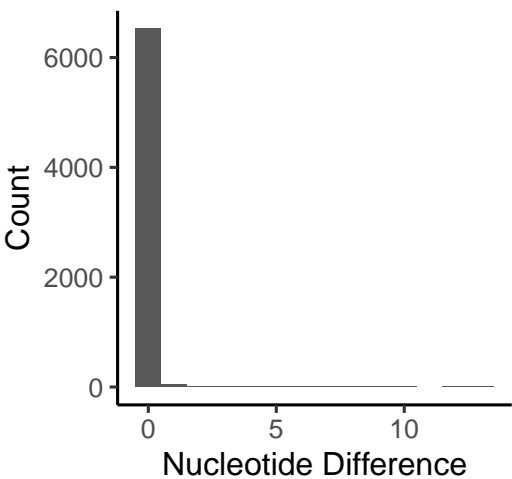
TRBV12-5\*ap01

2562 sequences assigned  
2531 (98.8%) exact matches, in which:  
2479 unique CDR3  
13 unique J



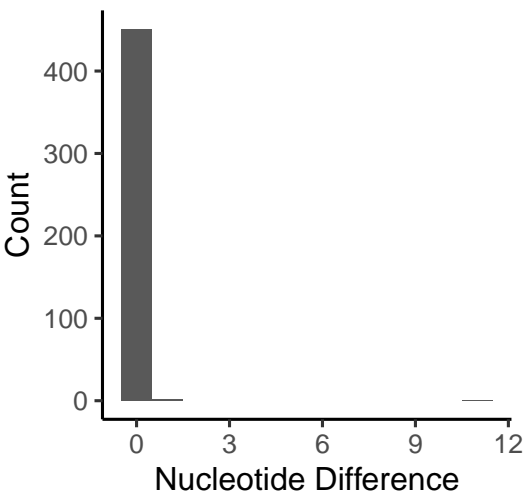
TRBV21-1\*ap01

6618 sequences assigned  
6525 (98.6%) exact matches, in which:  
6456 unique CDR3  
13 unique J



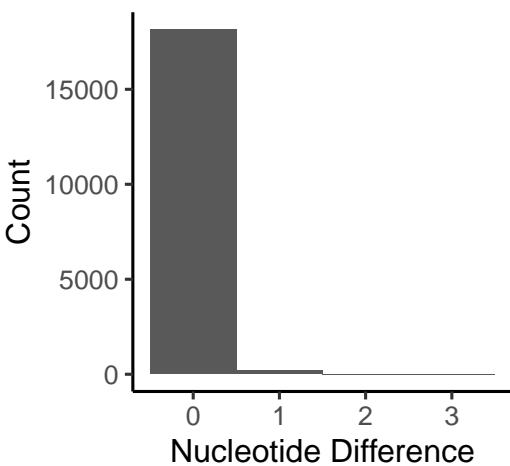
TRBV12-1\*ap01

454 sequences assigned  
451 (99.3%) exact matches, in which:  
445 unique CDR3  
13 unique J



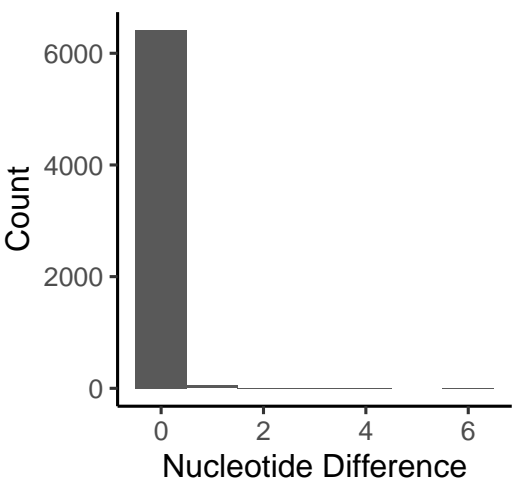
TRBV12-34\*ap01

18354 sequences assigned  
18150 (98.9%) exact matches, in which:  
17819 unique CDR3  
13 unique J



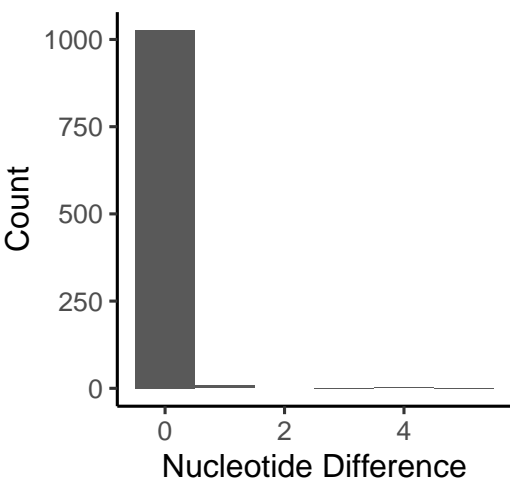
TRBV11-2\*ap01

6473 sequences assigned  
6416 (99.1%) exact matches, in which:  
6290 unique CDR3  
13 unique J



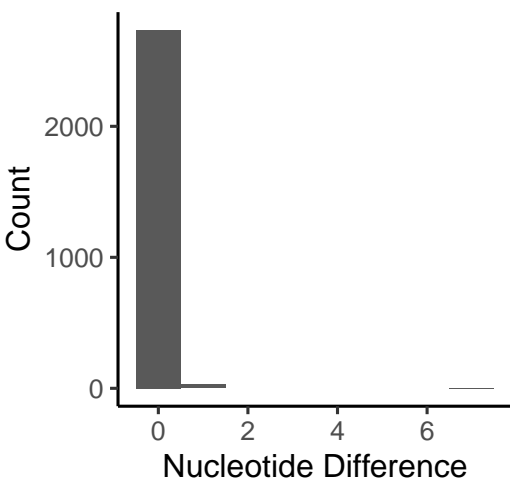
TRBV12-2\*ap01

1039 sequences assigned  
1027 (98.8%) exact matches, in which:  
1011 unique CDR3  
13 unique J



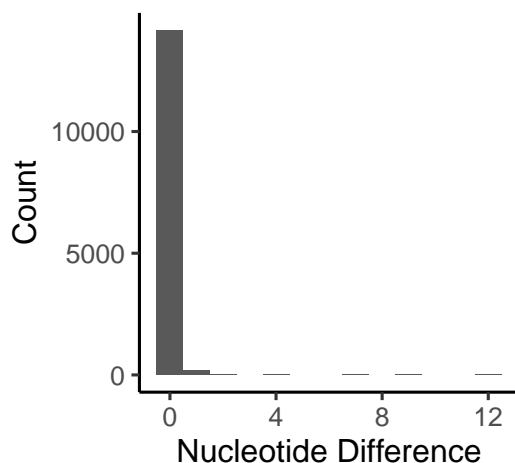
TRBV23-1\*ap01

2764 sequences assigned  
2735 (99%) exact matches, in which:  
2690 unique CDR3  
13 unique J



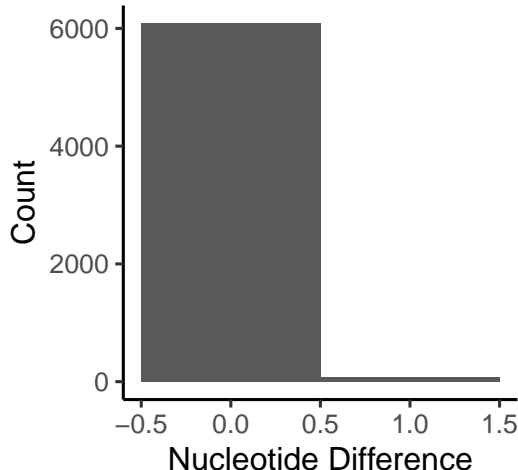
### TRBV3-12\*ap01

14340 sequences assigned  
14164 (98.8%) exact matches, in which:  
13885 unique CDR3  
13 unique J



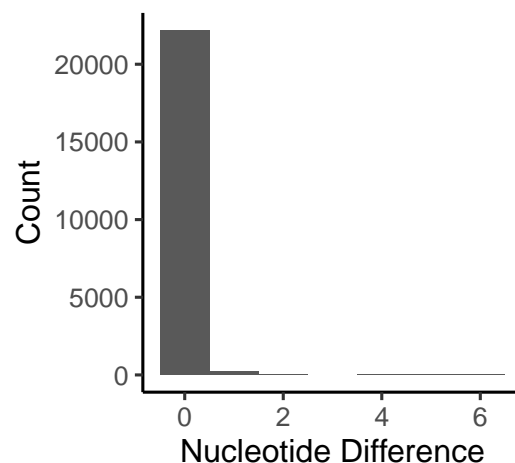
### TRBV4-2\*ap01

6163 sequences assigned  
6085 (98.7%) exact matches, in which:  
5961 unique CDR3  
13 unique J



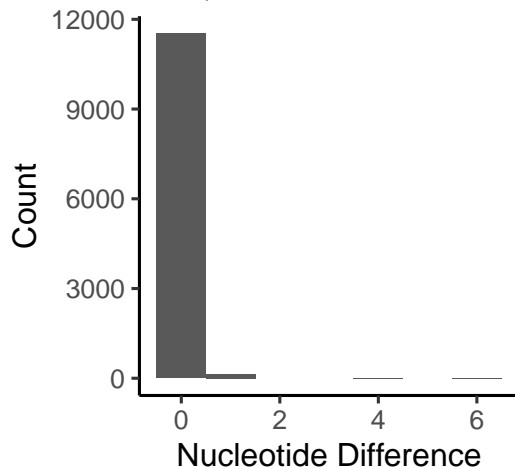
### TRBV5-1\*ap01

22411 sequences assigned  
22195 (99%) exact matches, in which:  
21698 unique CDR3  
13 unique J



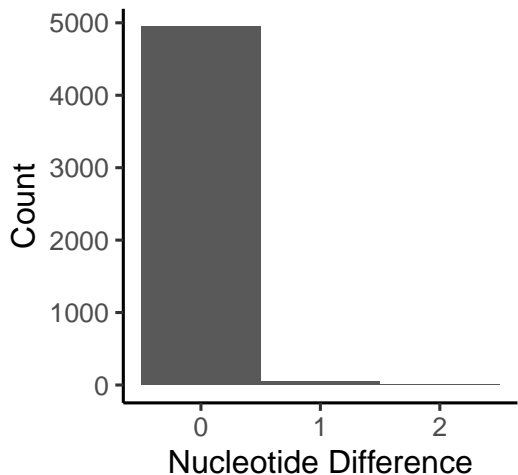
### TRBV4-1\*ap01

11671 sequences assigned  
11527 (98.8%) exact matches, in which:  
11257 unique CDR3  
14 unique J



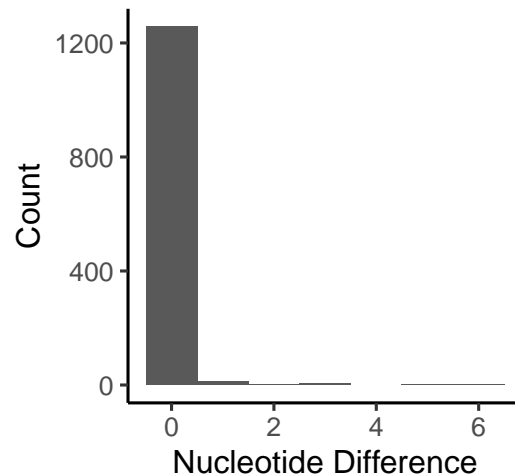
### TRBV4-3\*ap01

4995 sequences assigned  
4946 (99%) exact matches, in which:  
4829 unique CDR3  
13 unique J



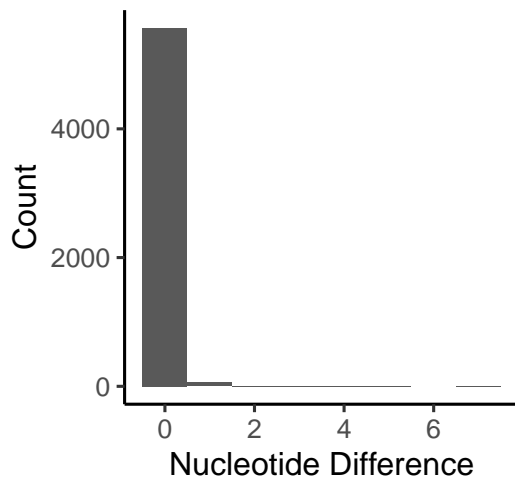
### TRBV5-3\*ap01

1277 sequences assigned  
1257 (98.4%) exact matches, in which:  
1243 unique CDR3  
13 unique J



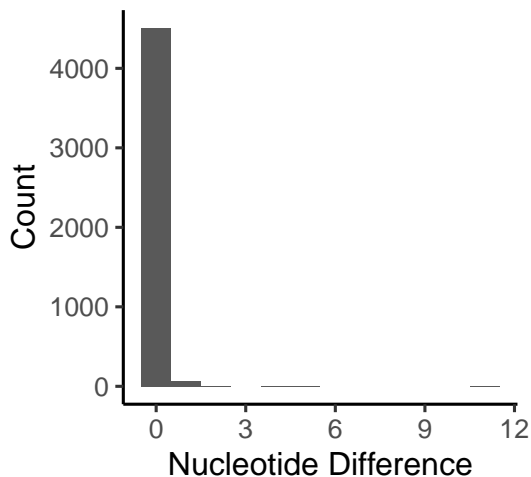
### TRBV24-1\*ap01

5632 sequences assigned  
5566 (98.8%) exact matches, in which:  
5448 unique CDR3  
13 unique J



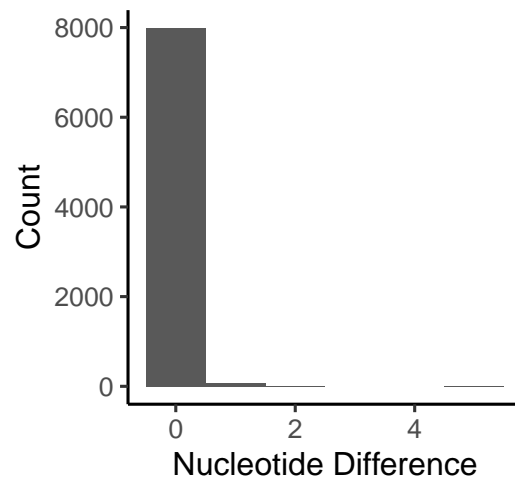
### TRBV25-1\*ap01

4579 sequences assigned  
4507 (98.4%) exact matches, in which:  
4434 unique CDR3  
13 unique J



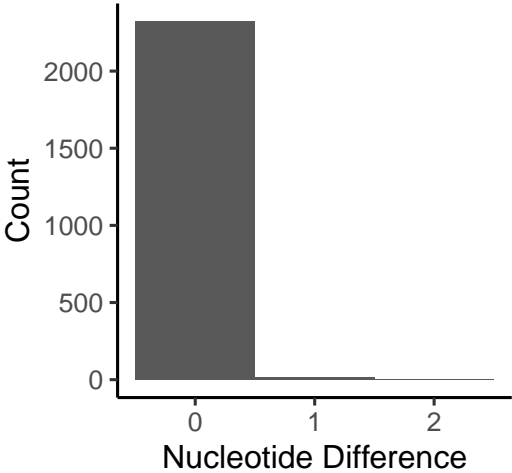
### TRBV5-4\*ap01

8070 sequences assigned  
7989 (99%) exact matches, in which:  
7803 unique CDR3  
13 unique J



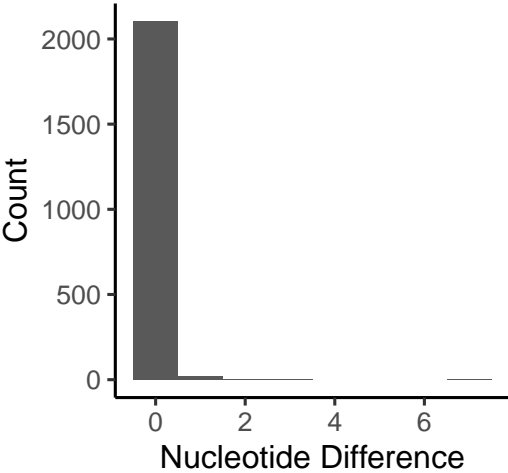
TRBV5-5\*ap01

2338 sequences assigned  
2322 (99.3%) exact matches, in which:  
2306 unique CDR3  
13 unique J



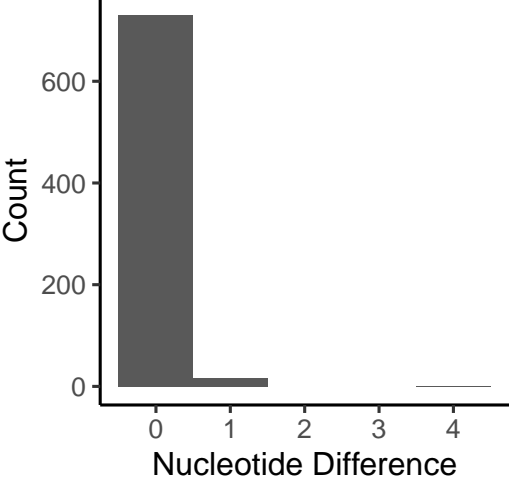
TRBV5-8\*ap01

2126 sequences assigned  
2103 (98.9%) exact matches, in which:  
2073 unique CDR3  
13 unique J



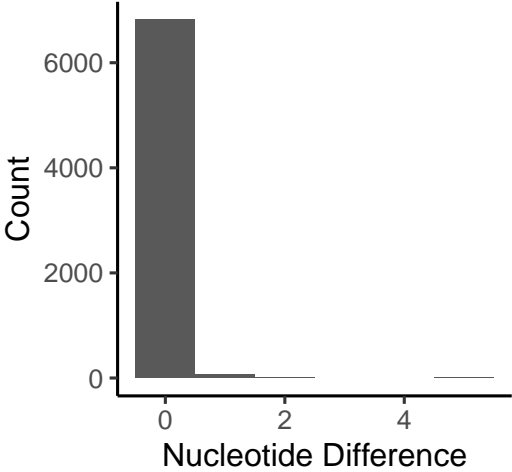
TRBV6-7\*ap01

749 sequences assigned  
731 (97.6%) exact matches, in which:  
711 unique CDR3  
13 unique J



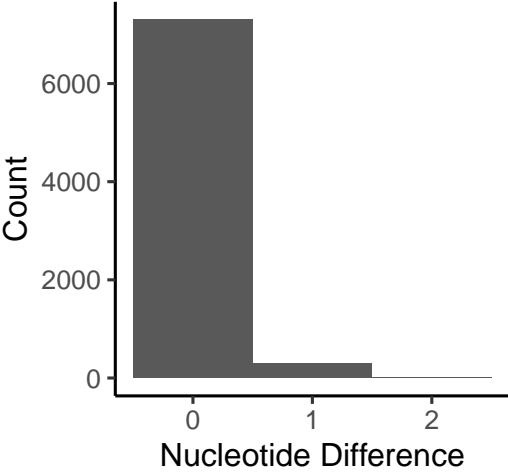
TRBV5-6\*ap01

6892 sequences assigned  
6818 (98.9%) exact matches, in which:  
6656 unique CDR3  
13 unique J



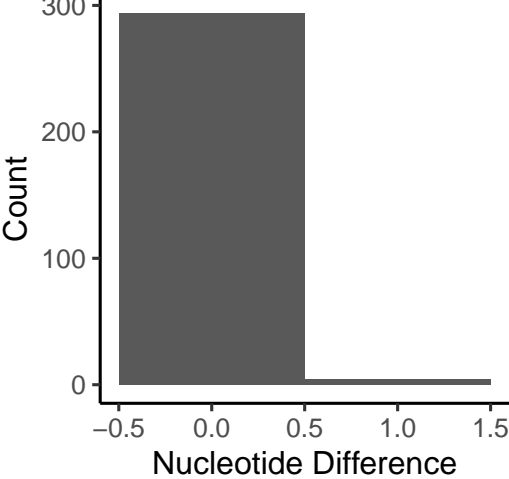
TRBV6-1\*ap01

7594 sequences assigned  
7300 (96.1%) exact matches, in which:  
7147 unique CDR3  
13 unique J



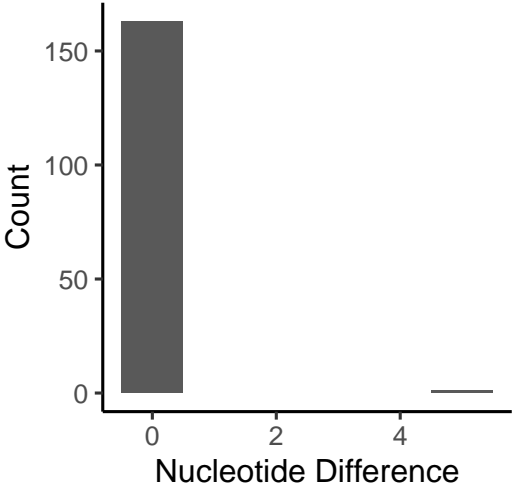
TRBV6-8\*ap01

298 sequences assigned  
294 (98.7%) exact matches, in which:  
285 unique CDR3  
13 unique J



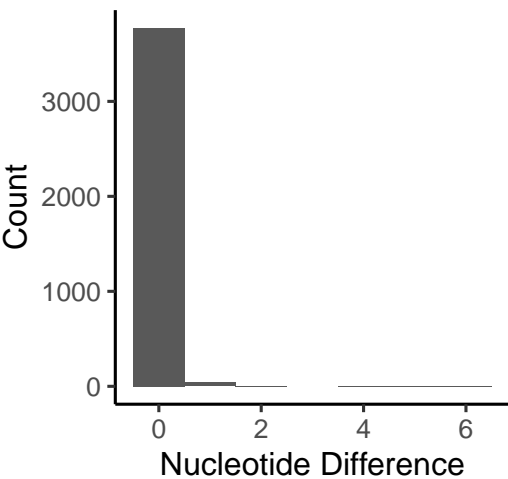
TRBV5-7\*ap01

164 sequences assigned  
163 (99.4%) exact matches, in which:  
162 unique CDR3  
13 unique J



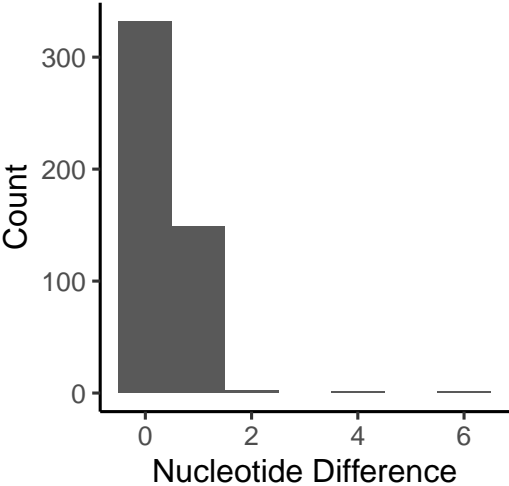
TRBV6-4\*ap01

3818 sequences assigned  
3772 (98.8%) exact matches, in which:  
3711 unique CDR3  
13 unique J



TRBV6-9\*ap01

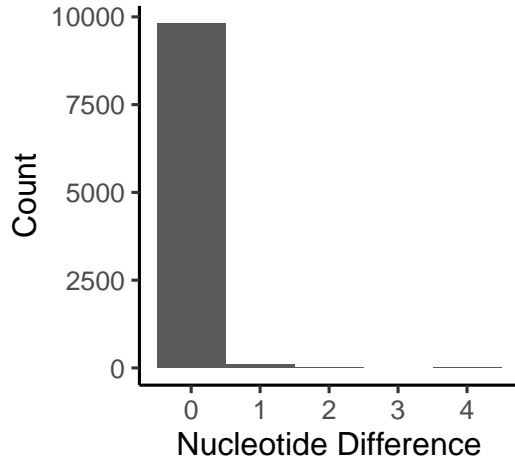
485 sequences assigned  
332 (68.5%) exact matches, in which:  
326 unique CDR3  
13 unique J





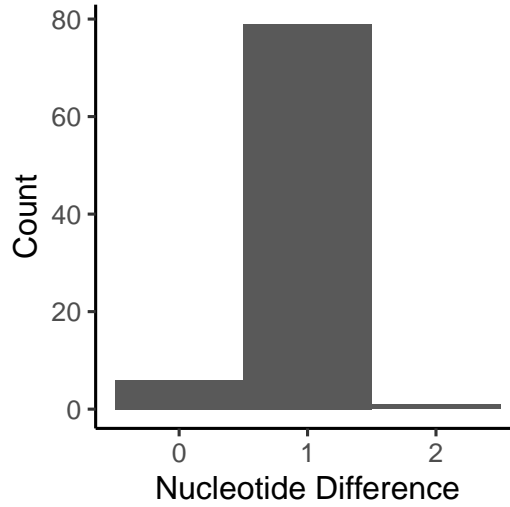
### TRBV6-23\*ap01

9921 sequences assigned  
9821 (99%) exact matches, in which:  
9595 unique CDR3  
13 unique J



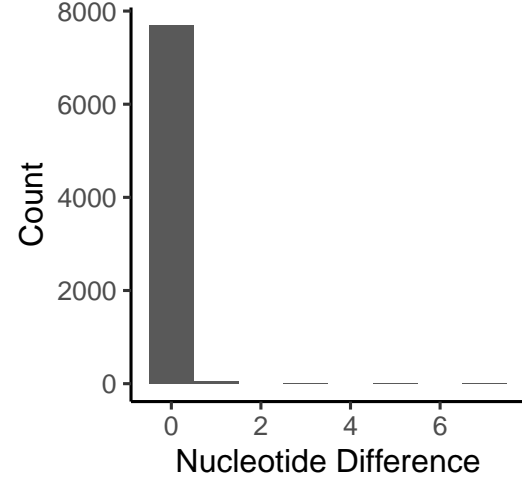
### TRBV7-1\*ap01\_T296C

86 sequences assigned  
6 (7%) exact matches, in which:  
6 unique CDR3  
5 unique J



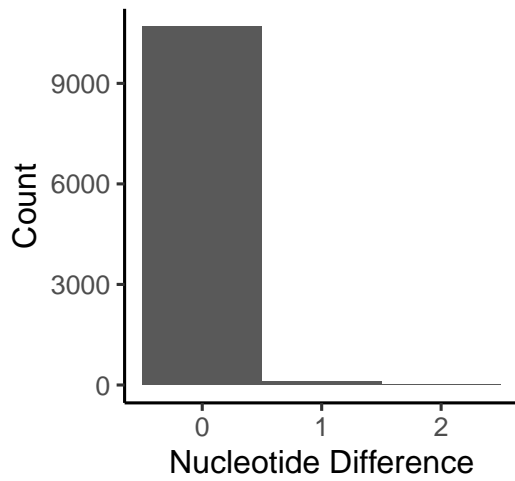
### TRBV7-3\*ap01

7758 sequences assigned  
7692 (99.1%) exact matches, in which:  
7597 unique CDR3  
13 unique J



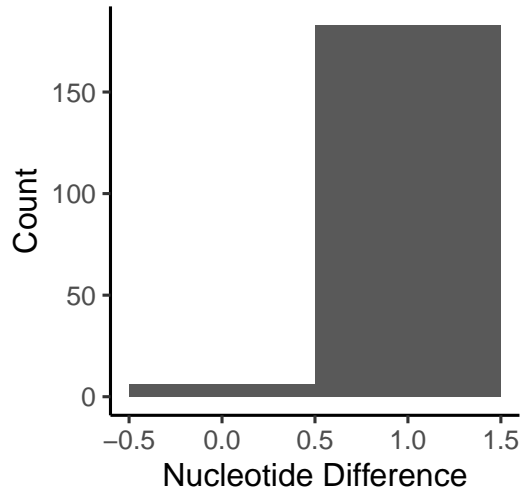
### TRBV6-56\*ap01

10801 sequences assigned  
10690 (99%) exact matches, in which:  
10434 unique CDR3  
13 unique J



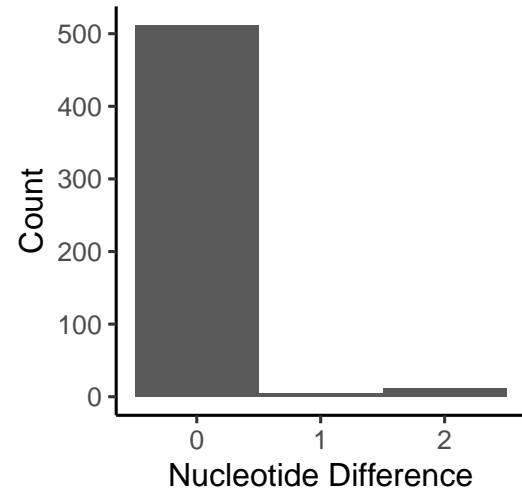
### TRBV7-1\*ap01\_T296C\_()

189 sequences assigned  
6 (3.2%) exact matches, in which:  
6 unique CDR3  
4 unique J



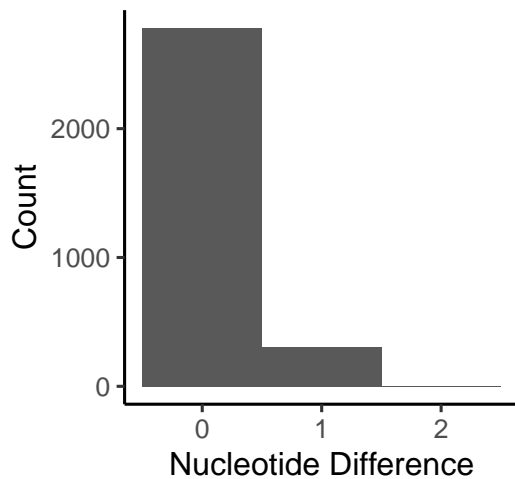
### TRBV7-4\*ap01

529 sequences assigned  
512 (96.8%) exact matches, in which:  
497 unique CDR3  
13 unique J



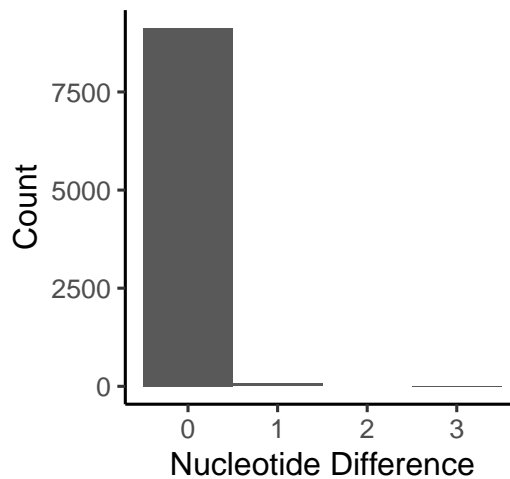
### TRBV6-56\*ap02

3087 sequences assigned  
2781 (90.1%) exact matches, in which:  
2721 unique CDR3  
13 unique J



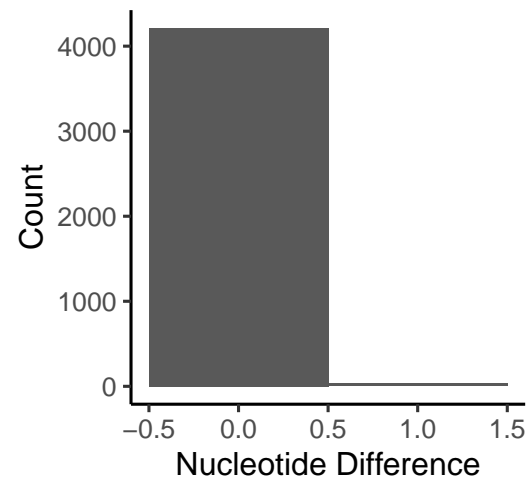
### TRBV7-2\*ap01

9202 sequences assigned  
9128 (99.2%) exact matches, in which:  
8971 unique CDR3  
13 unique J



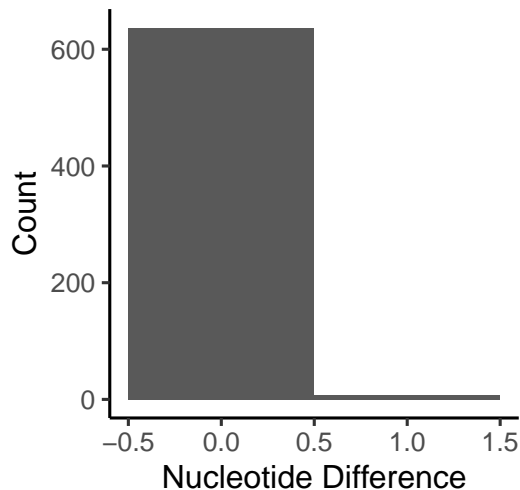
### TRBV7-6\*ap01

4248 sequences assigned  
4213 (99.2%) exact matches, in which:  
4130 unique CDR3  
13 unique J



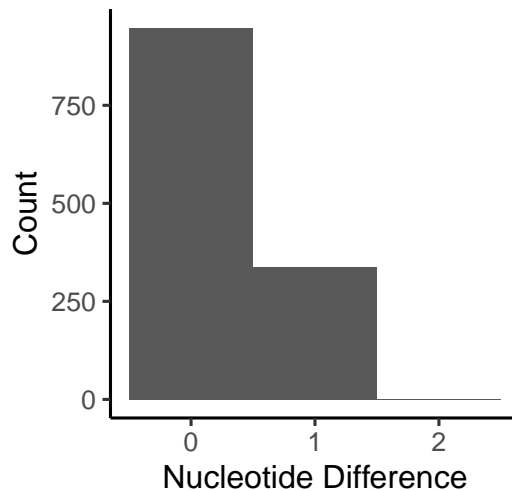
### TRBV7-7\*ap01

645 sequences assigned  
637 (98.8%) exact matches, in which:  
630 unique CDR3  
13 unique J



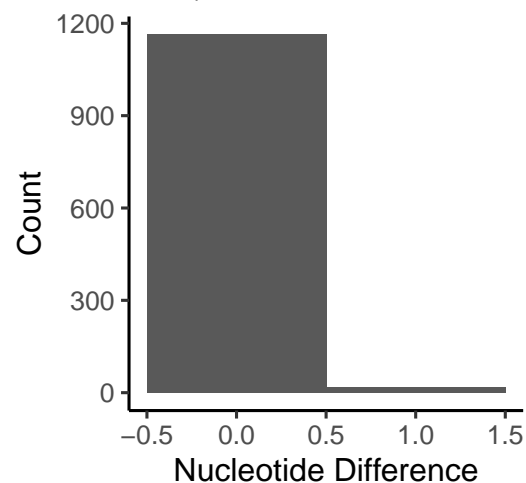
### TRBV7-8\*ap03

1288 sequences assigned  
948 (73.6%) exact matches, in which:  
929 unique CDR3  
13 unique J



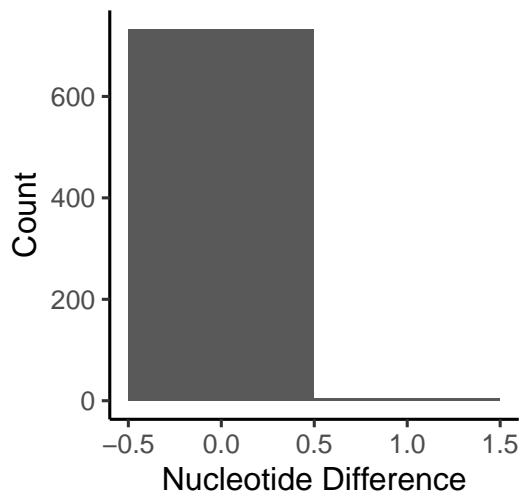
### TRBV29-1\*ap02

1181 sequences assigned  
1164 (98.6%) exact matches, in which:  
1149 unique CDR3  
13 unique J



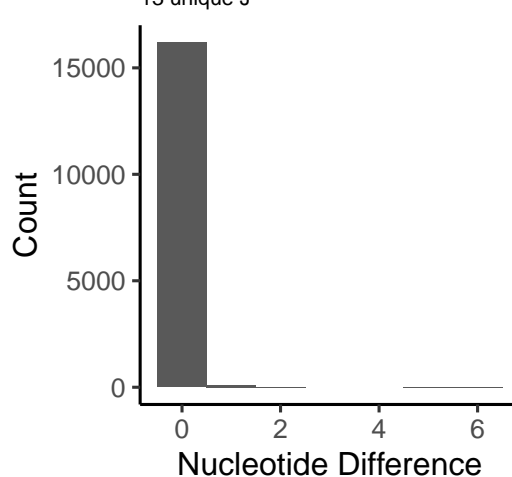
### TRBV7-7\*ap01\_C315T

738 sequences assigned  
733 (99.3%) exact matches, in which:  
728 unique CDR3  
13 unique J



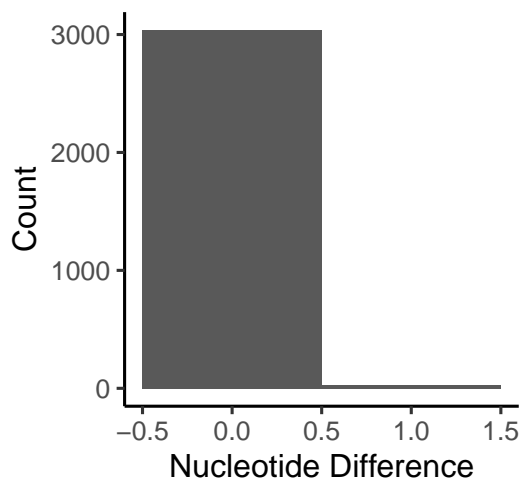
### TRBV7-9\*ap01

16300 sequences assigned  
16192 (99.3%) exact matches, in which:  
15972 unique CDR3  
13 unique J



### TRBV7-8\*ap01

3068 sequences assigned  
3038 (99%) exact matches, in which:  
2971 unique CDR3  
13 unique J



### TRBV29-1\*ap01

7148 sequences assigned  
7059 (98.8%) exact matches, in which:  
6909 unique CDR3  
13 unique J

