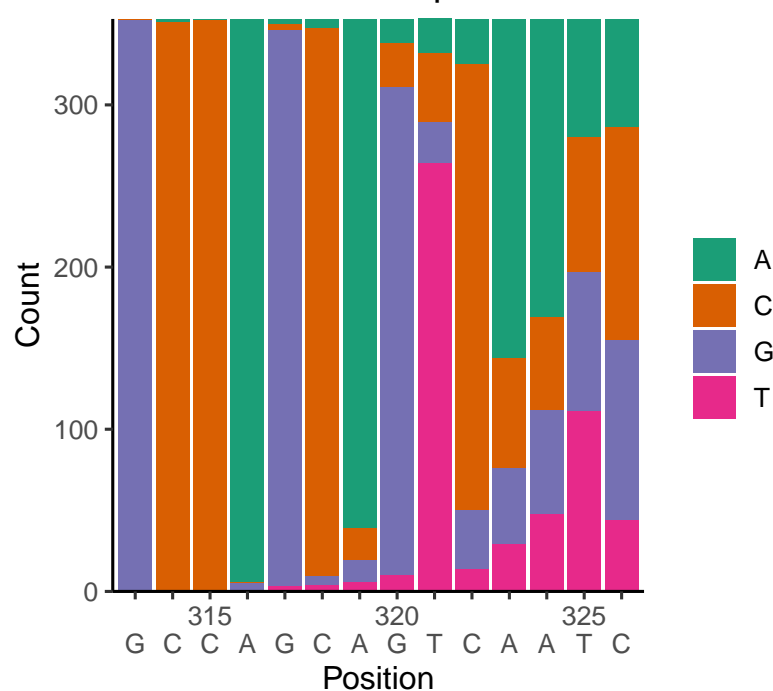
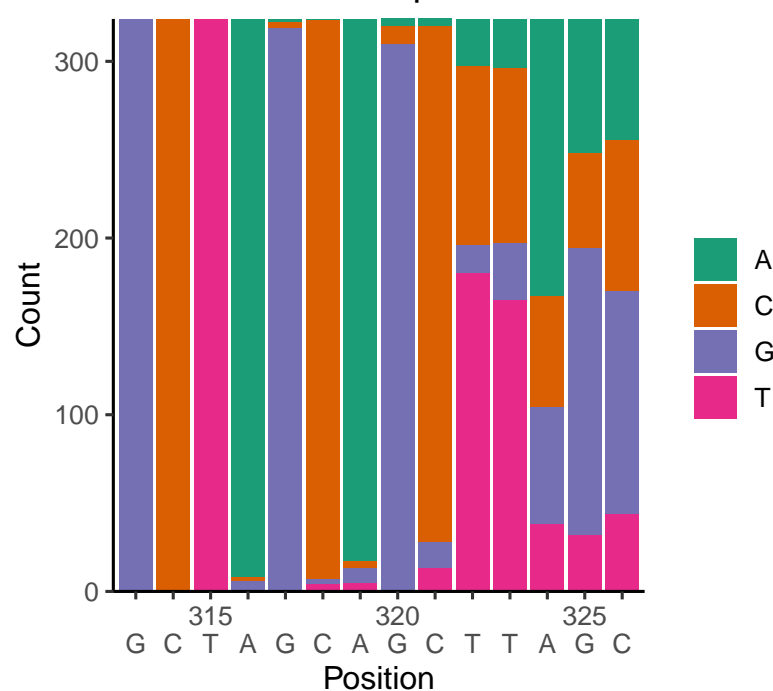


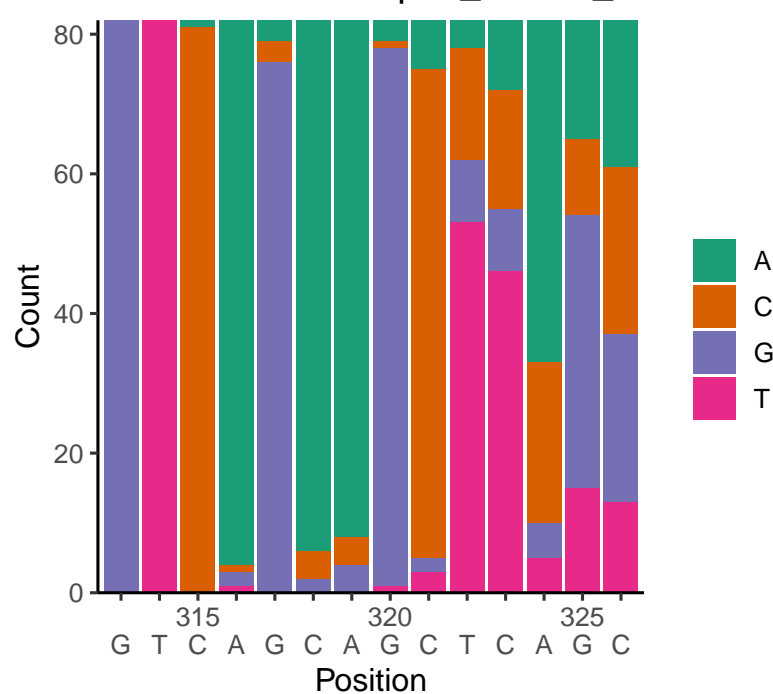
Gene TRBV23-1\*ap01\_T304C



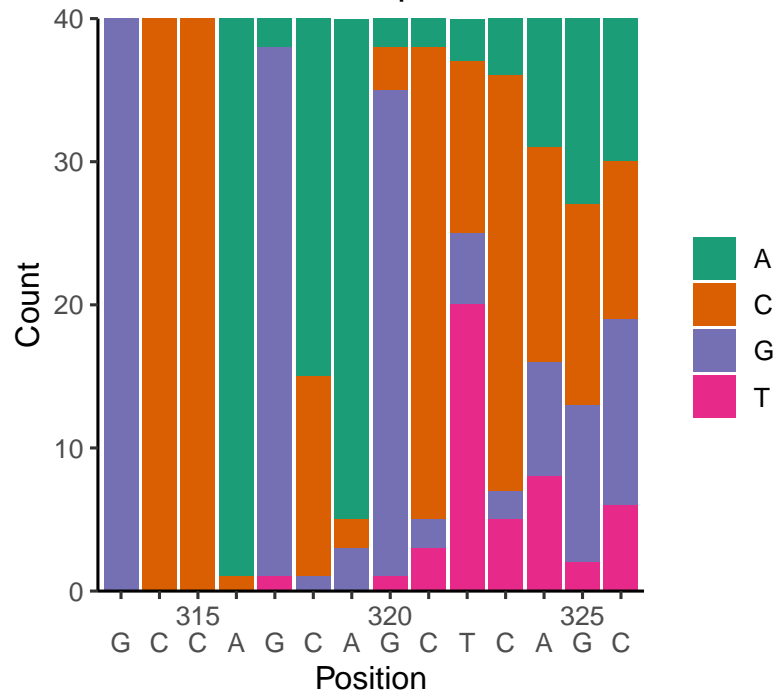
Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C



Gene TRBV23-1\*ap01\_T304C



Gene TRBV7-1\*ap01\_T296C\_C314T



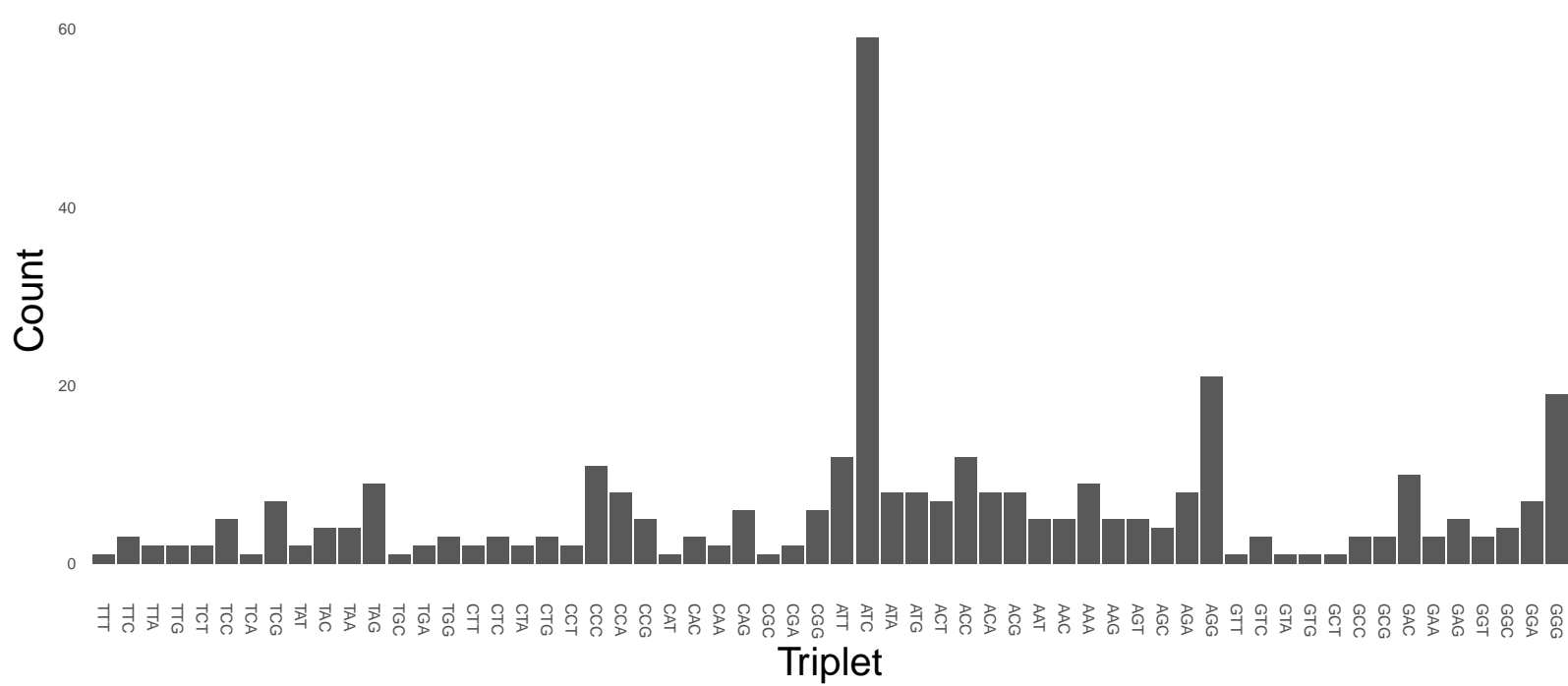
Gene TRBV7-1\*ap01\_T296C



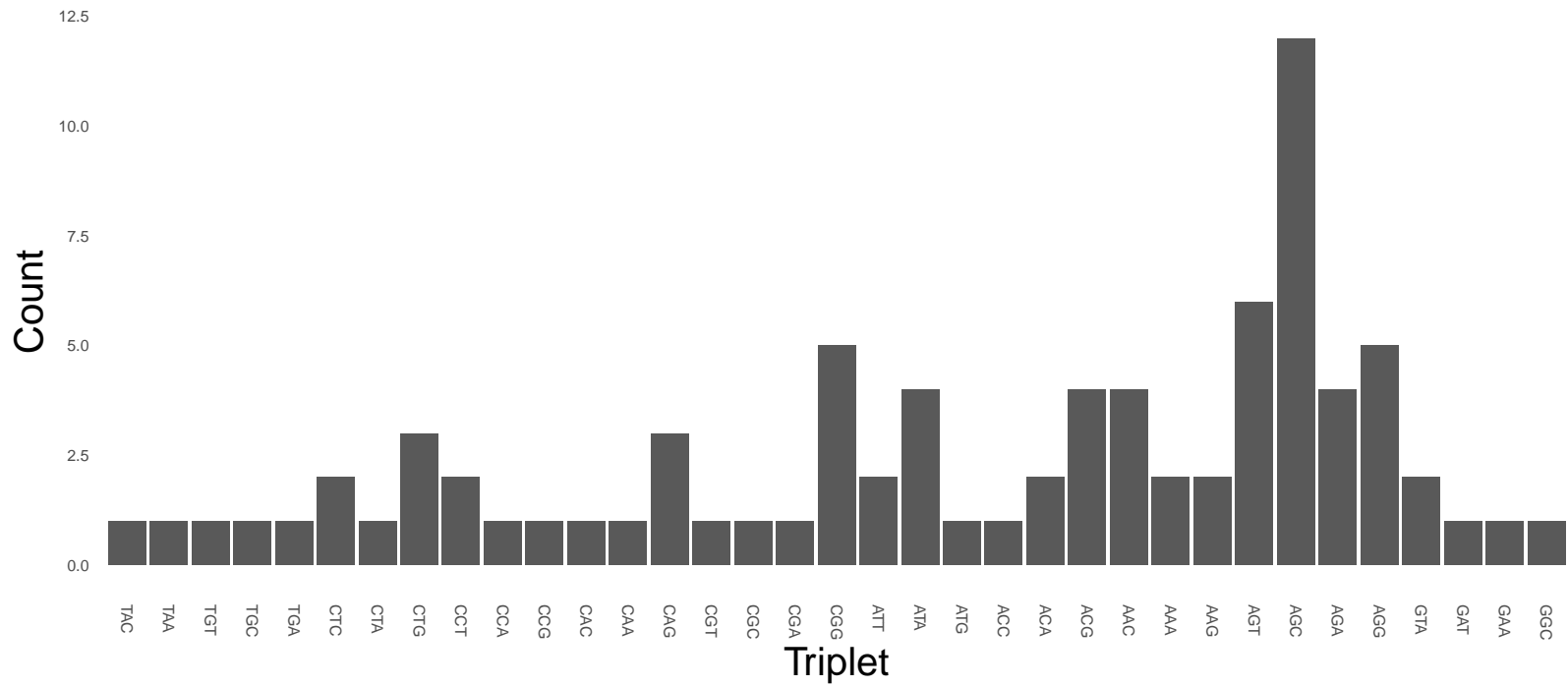
Gene TRBV7-7\*ap01\_C315T



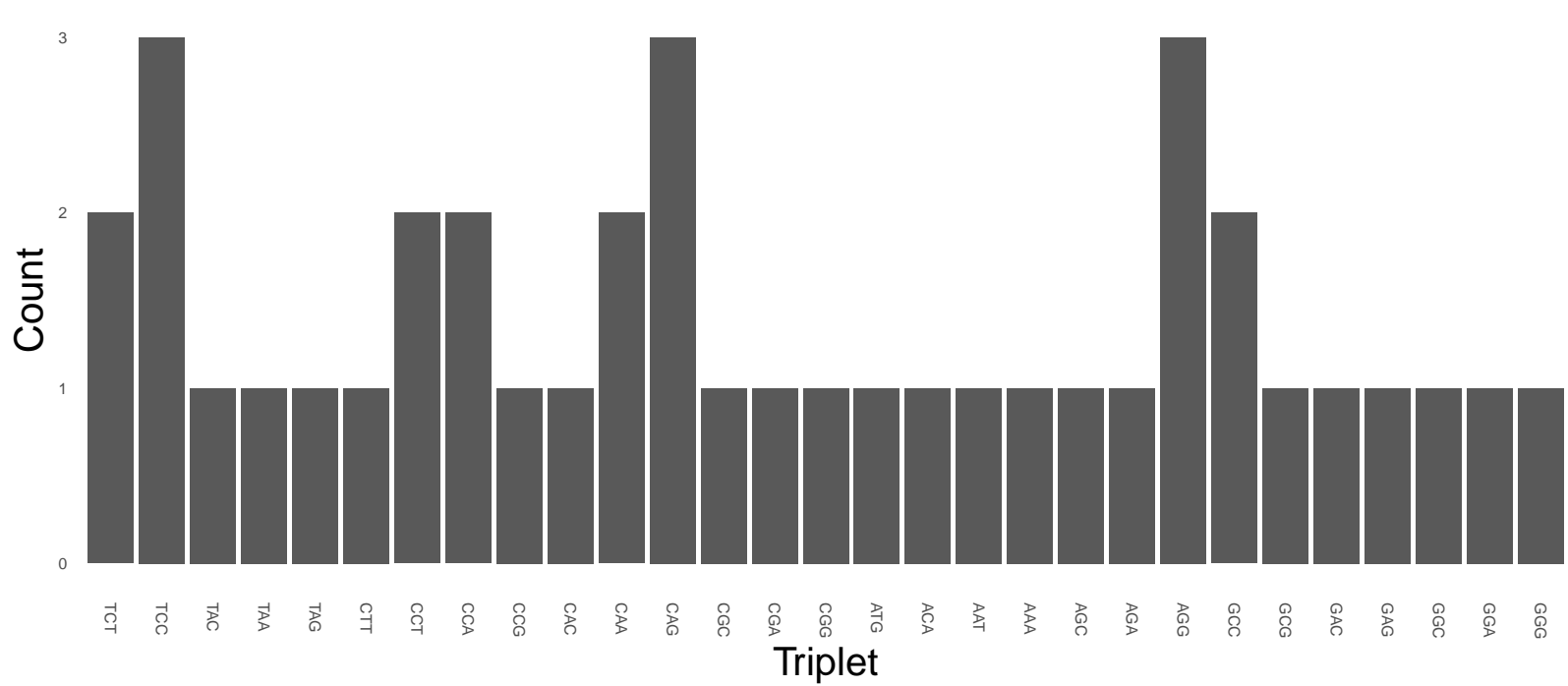
TRBV23-1\*ap01\_T304C- Final 3 nucleotides as a triplet



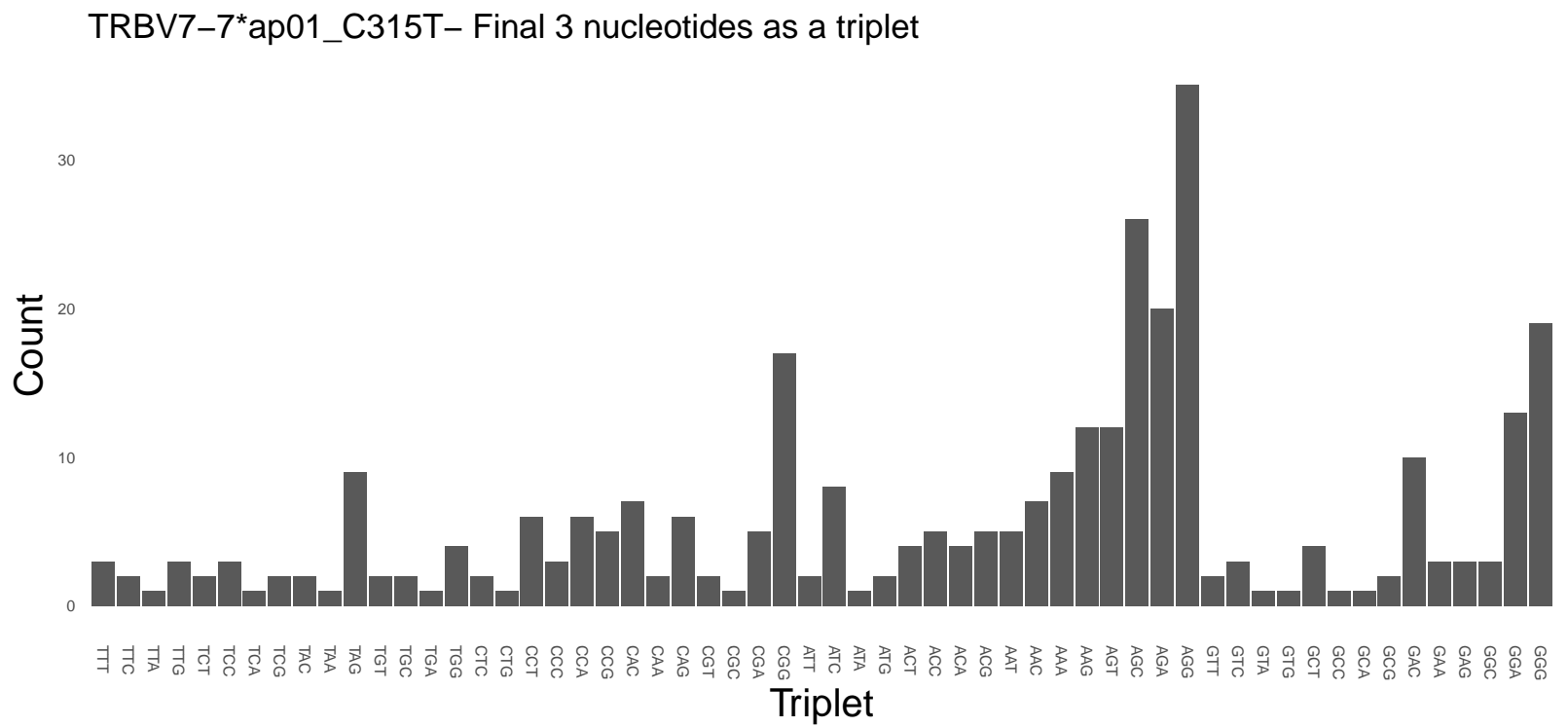
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

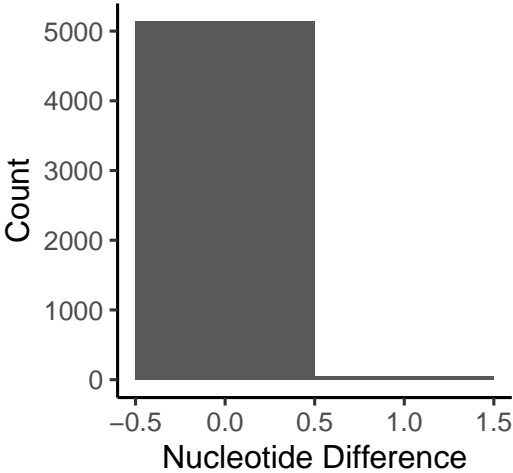


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



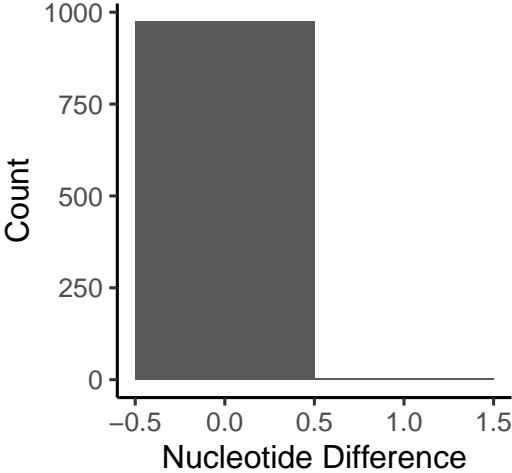
TRBV20-1\*ap01

5193 sequences assigned  
5139 (99%) exact matches, in which:  
5070 unique CDR3  
13 unique J



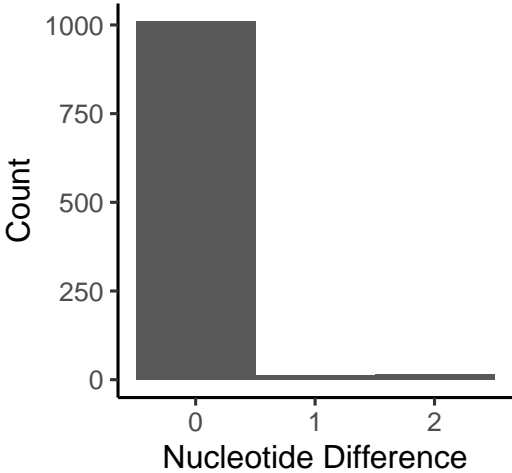
TRBV10-2\*ap01

980 sequences assigned  
975 (99.5%) exact matches, in which:  
952 unique CDR3  
13 unique J



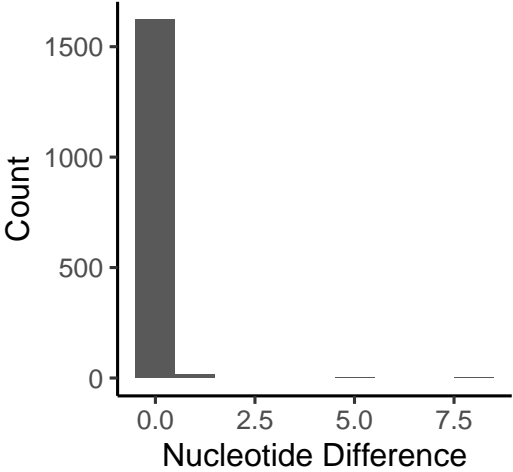
TRBV13\*ap01

1037 sequences assigned  
1010 (97.4%) exact matches, in which:  
987 unique CDR3  
13 unique J



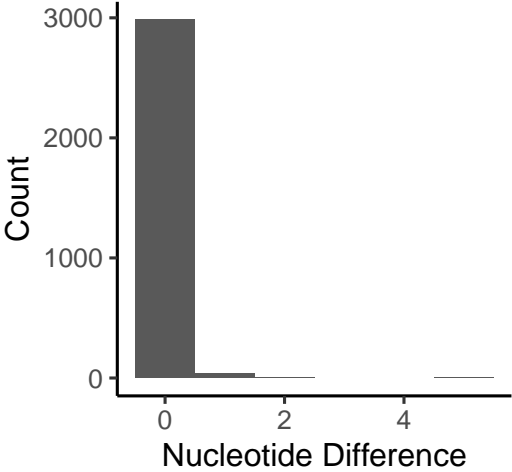
TRBV10-1\*ap01

1639 sequences assigned  
1622 (99%) exact matches, in which:  
1579 unique CDR3  
13 unique J



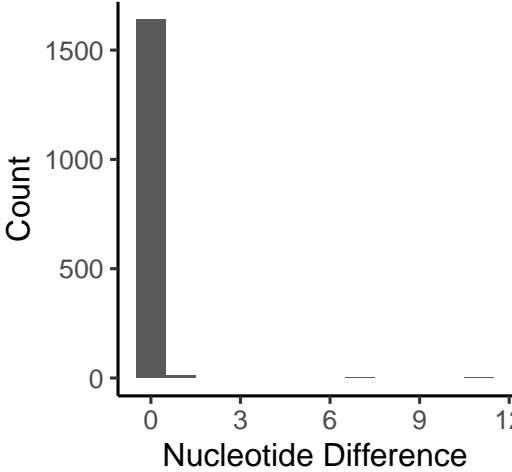
TRBV10-3\*ap01

3023 sequences assigned  
2984 (98.7%) exact matches, in which:  
2911 unique CDR3  
13 unique J



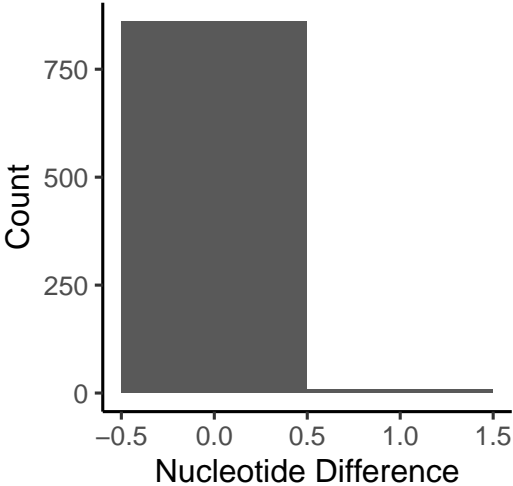
TRBV14\*ap01

1653 sequences assigned  
1639 (99.2%) exact matches, in which:  
1614 unique CDR3  
13 unique J



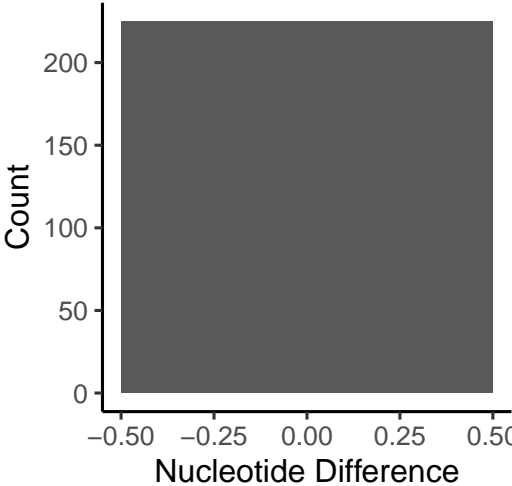
TRBV20-1\*ap02

869 sequences assigned  
861 (99.1%) exact matches, in which:  
852 unique CDR3  
13 unique J



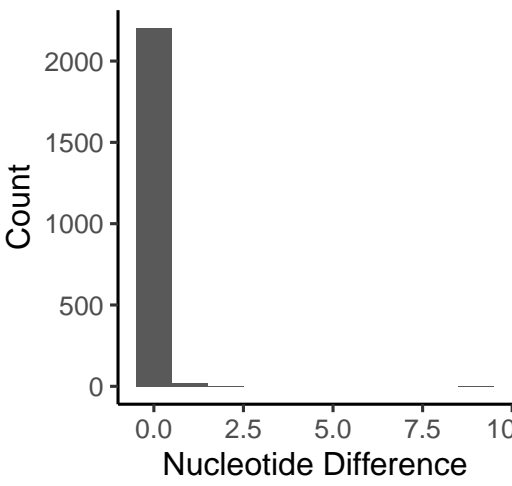
TRBV1\*ap01

225 sequences assigned  
225 (100%) exact matches, in which:  
221 unique CDR3  
13 unique J



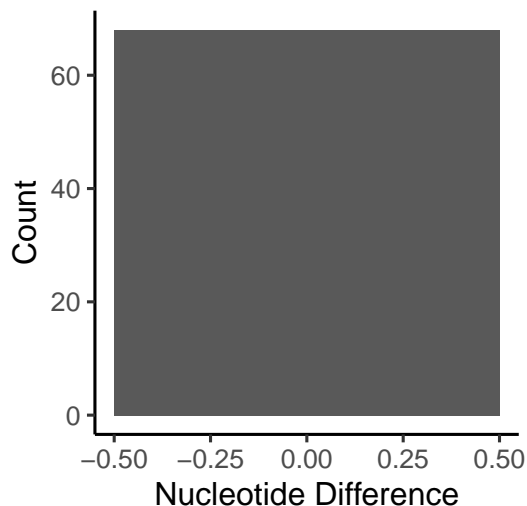
TRBV15\*ap02

2227 sequences assigned  
2203 (98.9%) exact matches, in which:  
2155 unique CDR3  
13 unique J



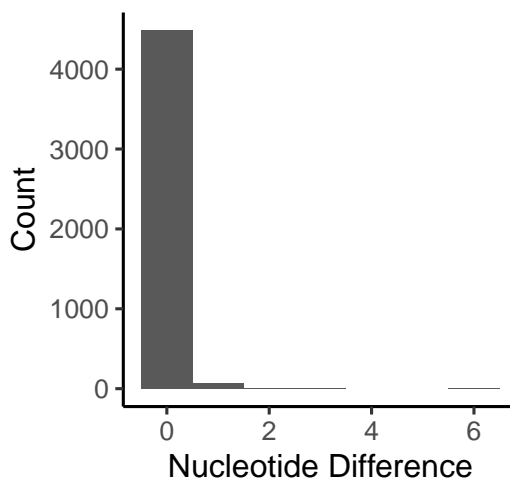
### TRBV16\*ap01

68 sequences assigned  
68 (100%) exact matches, in which:  
67 unique CDR3  
11 unique J



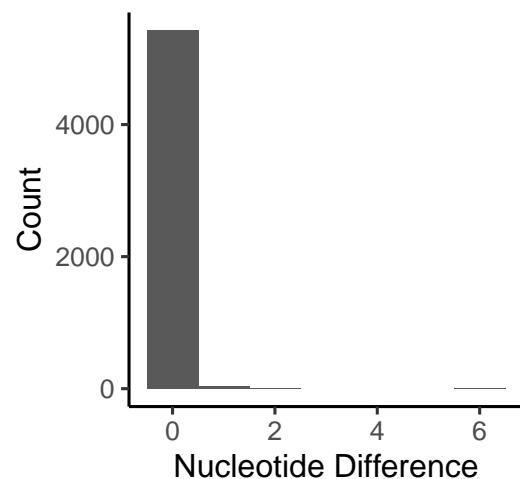
### TRBV2\*ap01

4556 sequences assigned  
4485 (98.4%) exact matches, in which:  
4381 unique CDR3  
13 unique J



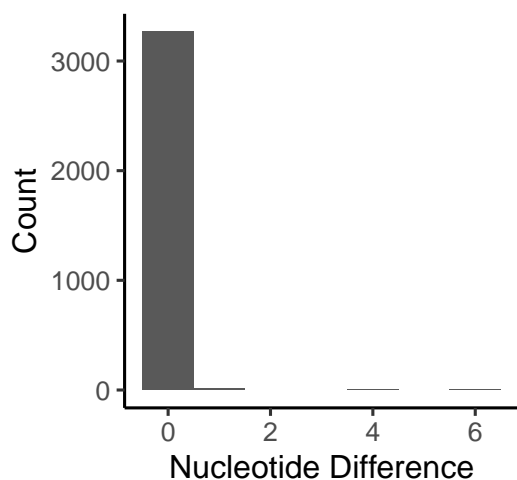
### TRBV28\*ap01

5469 sequences assigned  
5426 (99.2%) exact matches, in which:  
5349 unique CDR3  
13 unique J



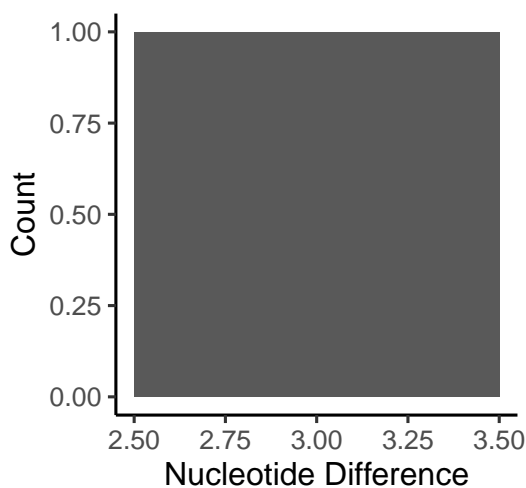
### TRBV18\*ap01

3282 sequences assigned  
3267 (99.5%) exact matches, in which:  
3227 unique CDR3  
13 unique J



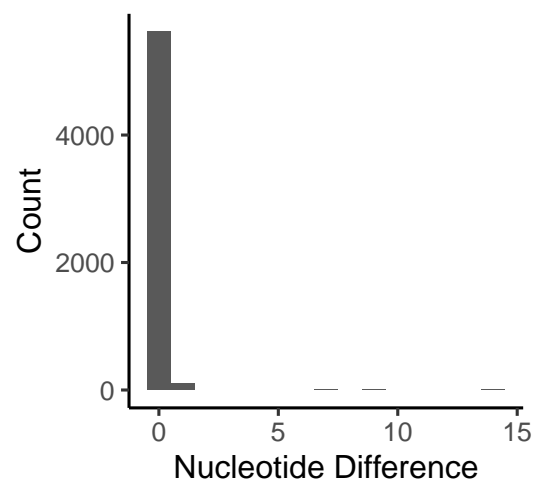
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



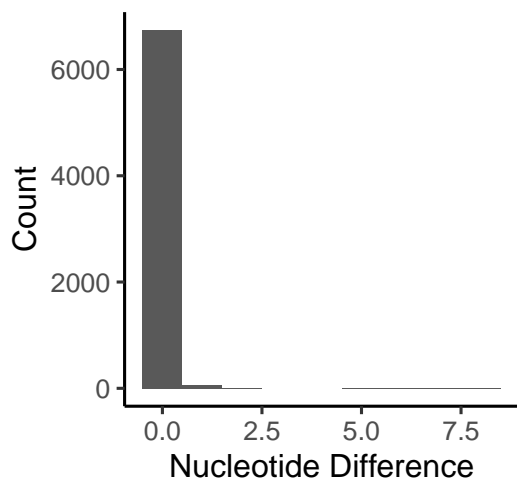
### TRBV30\*ap01

5721 sequences assigned  
5621 (98.3%) exact matches, in which:  
5485 unique CDR3  
13 unique J



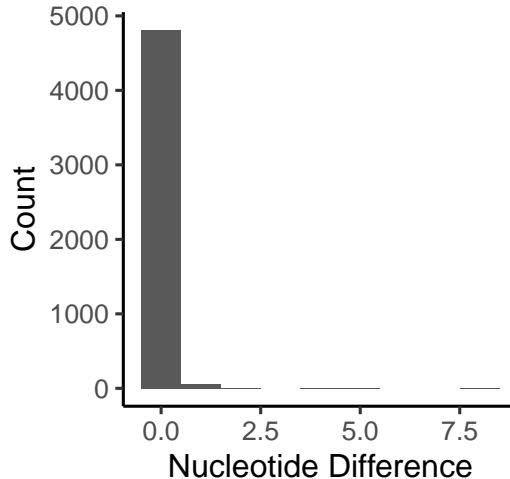
### TRBV19\*ap01

6815 sequences assigned  
6742 (98.9%) exact matches, in which:  
6668 unique CDR3  
13 unique J



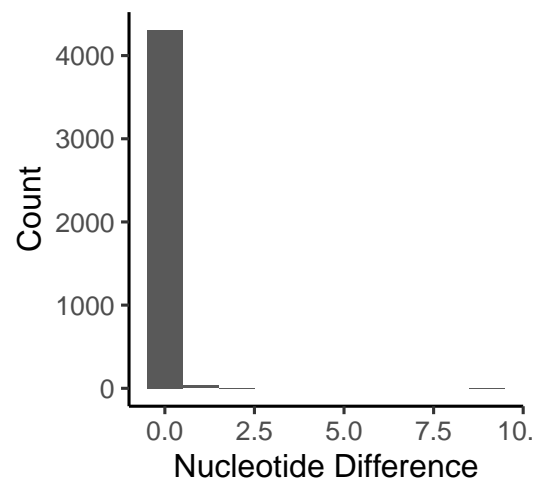
### TRBV27\*ap01

4877 sequences assigned  
4810 (98.6%) exact matches, in which:  
4742 unique CDR3  
13 unique J



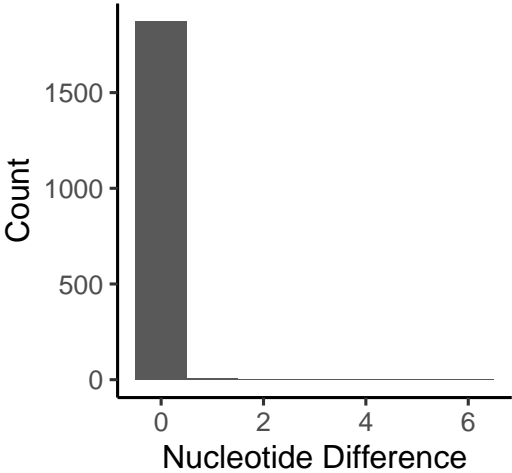
### TRBV9\*ap01

4345 sequences assigned  
4307 (99.1%) exact matches, in which:  
4264 unique CDR3  
13 unique J



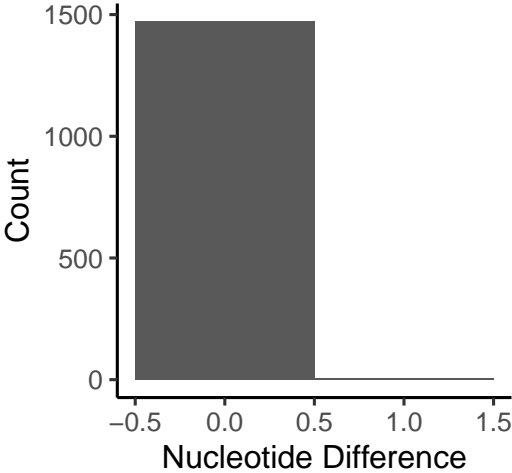
TRBV21-1\*ap01

1890 sequences assigned  
1872 (99%) exact matches, in which:  
1851 unique CDR3  
13 unique J



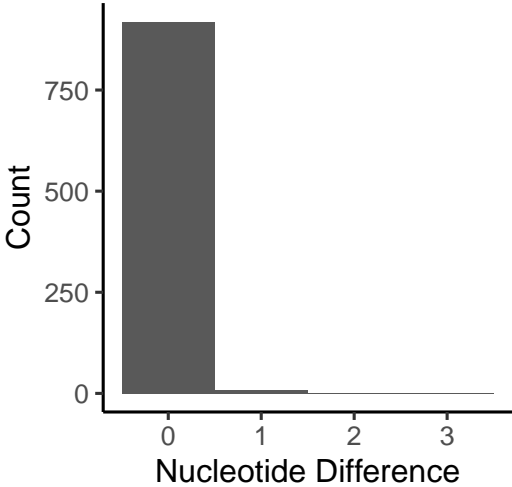
TRBV11-3\*ap01

1480 sequences assigned  
1472 (99.5%) exact matches, in which:  
1446 unique CDR3  
13 unique J



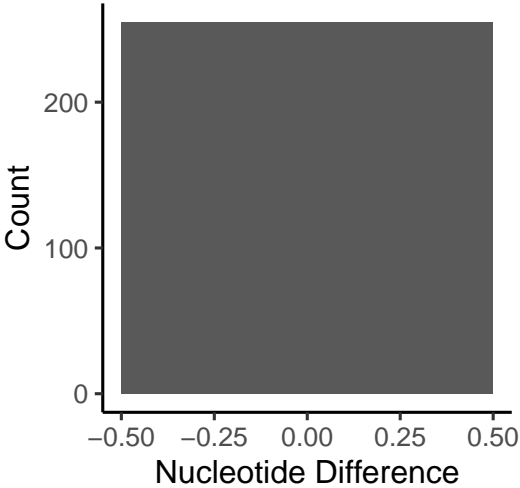
TRBV12-5\*ap01

929 sequences assigned  
919 (98.9%) exact matches, in which:  
897 unique CDR3  
13 unique J



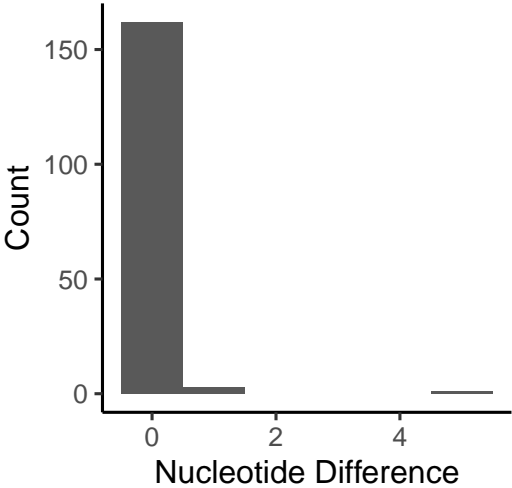
TRBV11-1\*ap01

255 sequences assigned  
255 (100%) exact matches, in which:  
253 unique CDR3  
13 unique J



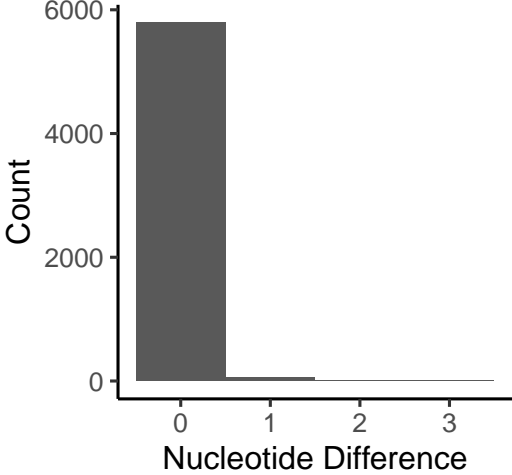
TRBV12-1\*ap01

166 sequences assigned  
162 (97.6%) exact matches, in which:  
162 unique CDR3  
13 unique J



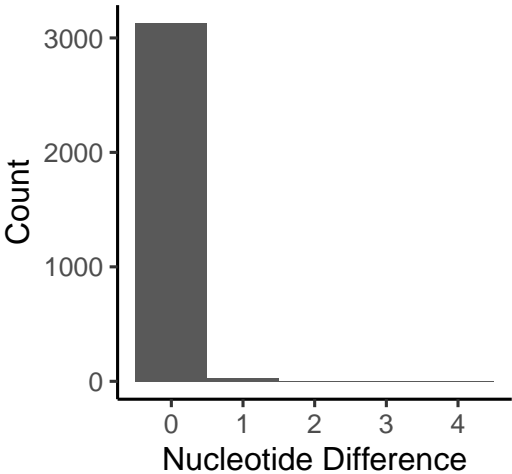
TRBV12-34\*ap01

5858 sequences assigned  
5791 (98.9%) exact matches, in which:  
5686 unique CDR3  
13 unique J



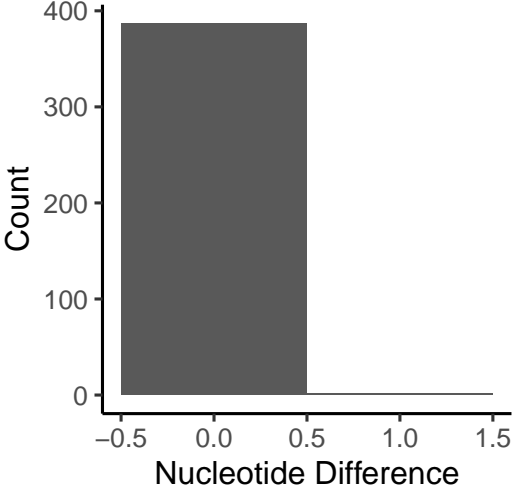
TRBV11-2\*ap01

3160 sequences assigned  
3130 (99.1%) exact matches, in which:  
3064 unique CDR3  
13 unique J



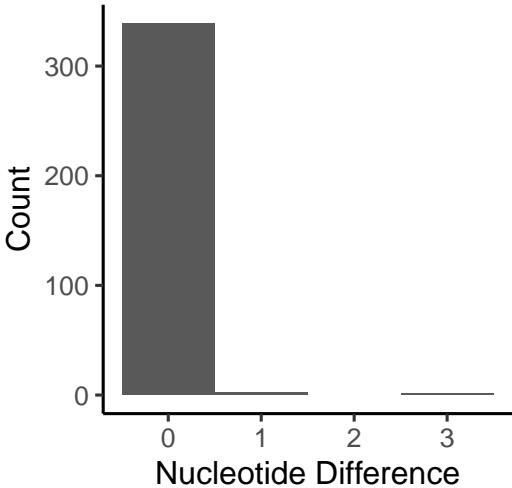
TRBV12-2\*ap01

389 sequences assigned  
387 (99.5%) exact matches, in which:  
376 unique CDR3  
13 unique J



TRBV23-1\*ap01

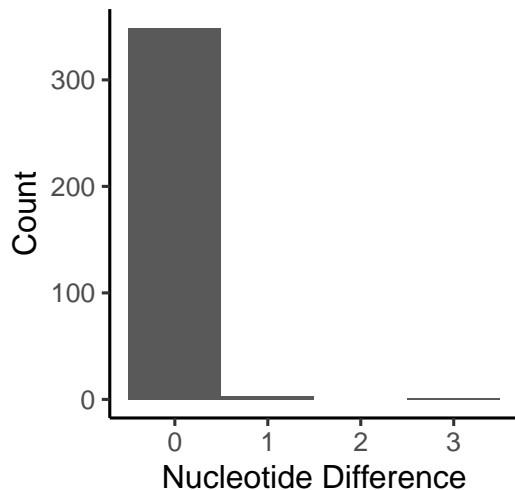
342 sequences assigned  
339 (99.1%) exact matches, in which:  
339 unique CDR3  
13 unique J





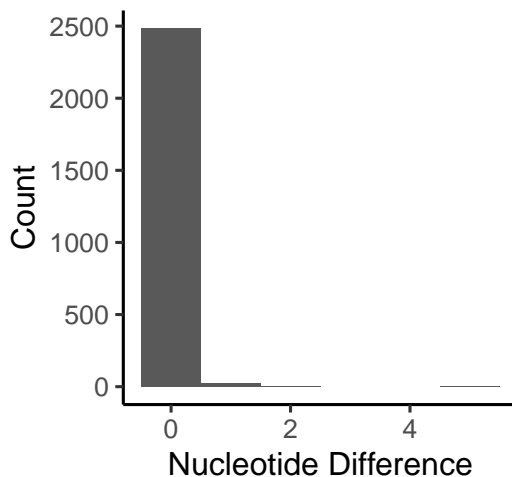
### TRBV23–1\*ap01\_T304C

353 sequences assigned  
349 (98.9%) exact matches, in which:  
345 unique CDR3  
13 unique J



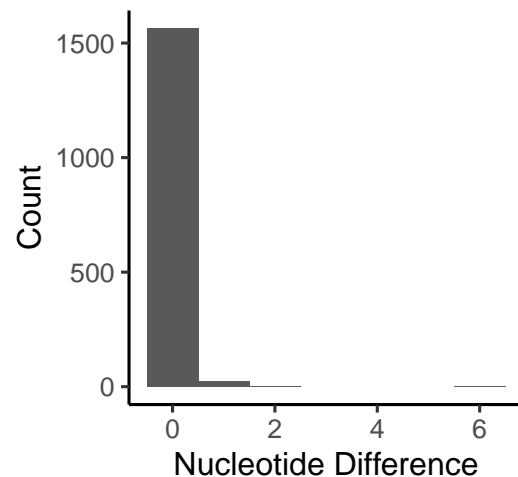
### TRBV4–1\*ap01

2507 sequences assigned  
2484 (99.1%) exact matches, in which:  
2422 unique CDR3  
13 unique J



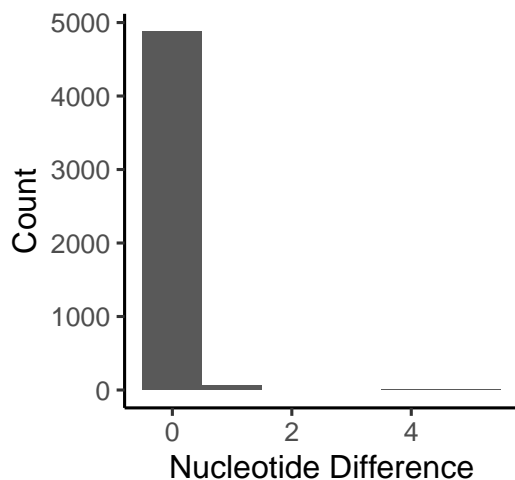
### TRBV25–1\*ap01

1591 sequences assigned  
1564 (98.3%) exact matches, in which:  
1536 unique CDR3  
13 unique J



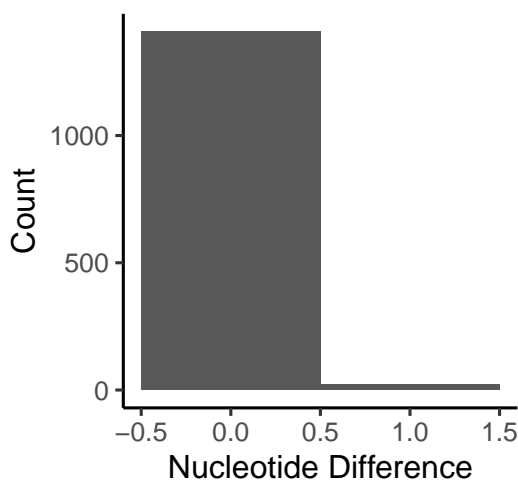
### TRBV3–12\*ap01

4935 sequences assigned  
4875 (98.8%) exact matches, in which:  
4788 unique CDR3  
13 unique J



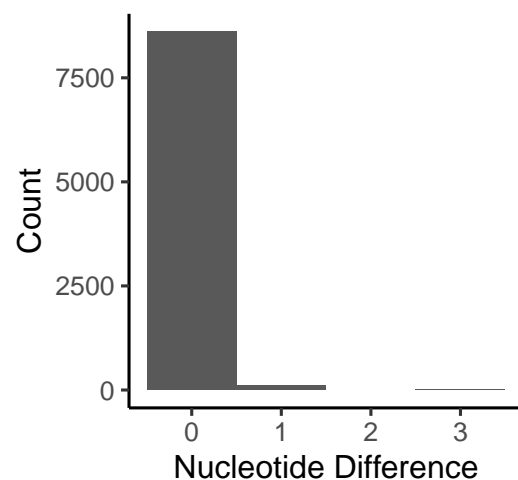
### TRBV4–2\*ap01

1429 sequences assigned  
1408 (98.5%) exact matches, in which:  
1379 unique CDR3  
13 unique J



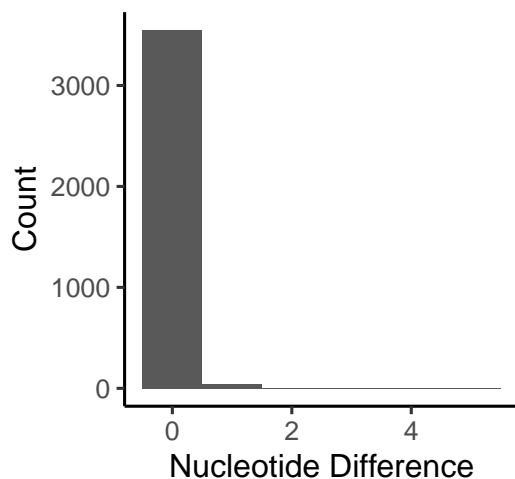
### TRBV5–1\*ap01

8719 sequences assigned  
8607 (98.7%) exact matches, in which:  
8388 unique CDR3  
13 unique J



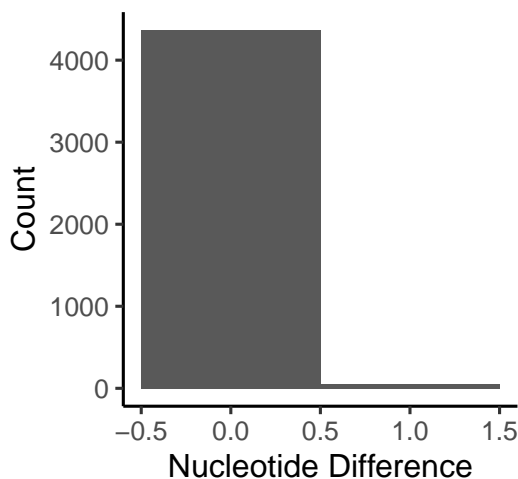
### TRBV24–1\*ap01

3603 sequences assigned  
3549 (98.5%) exact matches, in which:  
3492 unique CDR3  
13 unique J



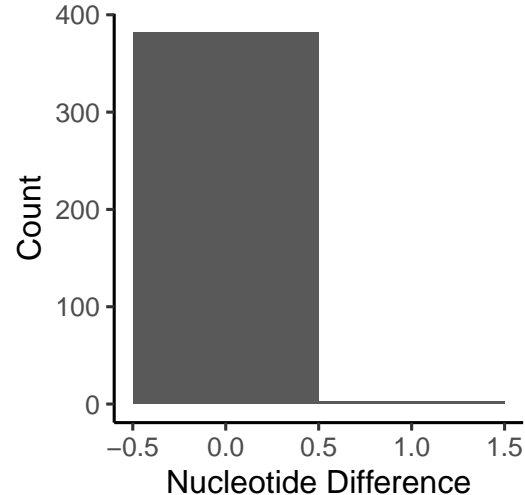
### TRBV4–3\*ap01

4418 sequences assigned  
4367 (98.8%) exact matches, in which:  
4267 unique CDR3  
13 unique J



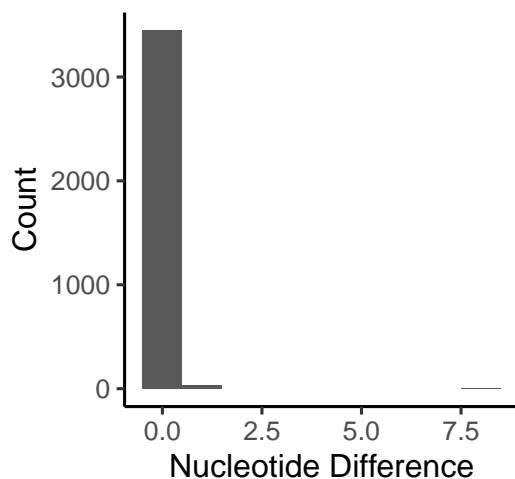
### TRBV5–3\*ap01

385 sequences assigned  
382 (99.2%) exact matches, in which:  
371 unique CDR3  
13 unique J



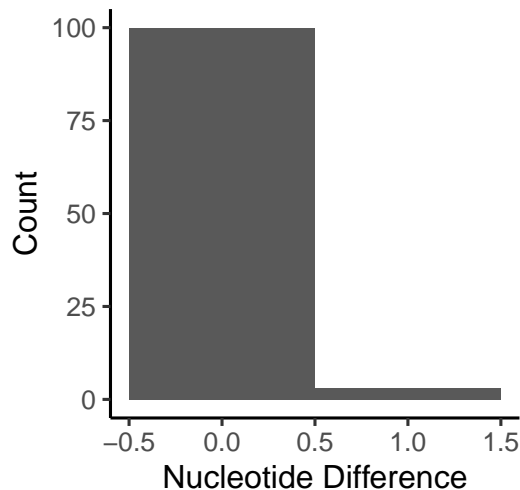
### TRBV5-4\*ap01

3487 sequences assigned  
3448 (98.9%) exact matches, in which:  
3386 unique CDR3  
13 unique J



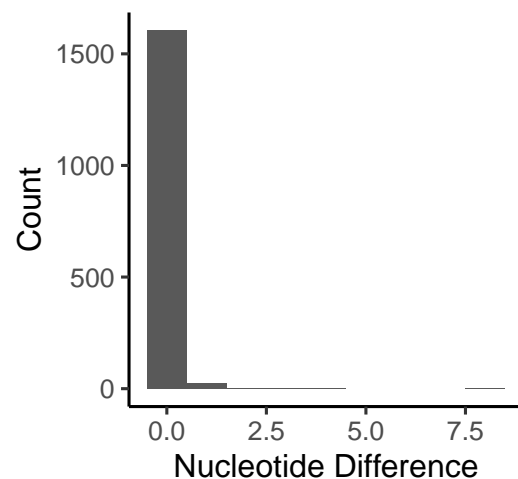
### TRBV5-7\*ap01

103 sequences assigned  
100 (97.1%) exact matches, in which:  
100 unique CDR3  
13 unique J



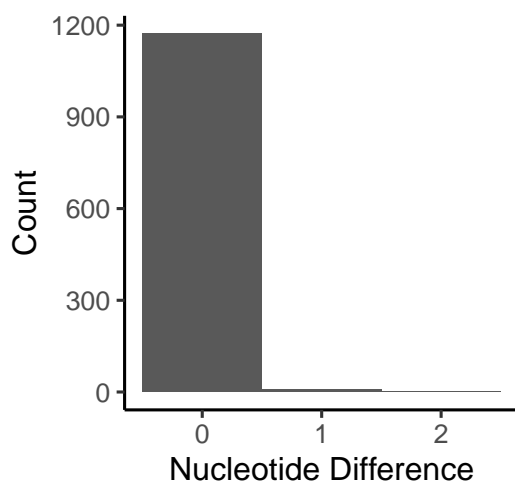
### TRBV6-4\*ap01

1637 sequences assigned  
1605 (98%) exact matches, in which:  
1585 unique CDR3  
13 unique J



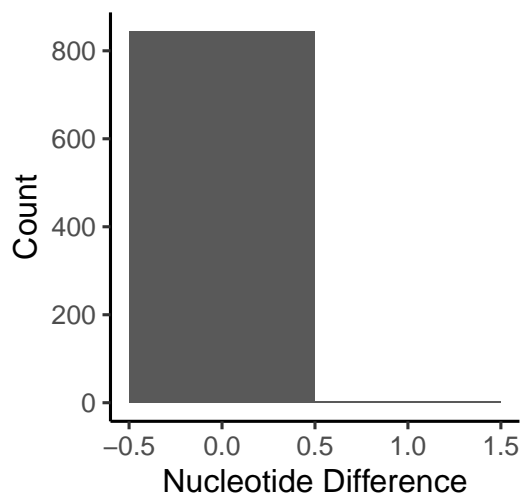
### TRBV5-5\*ap01

1180 sequences assigned  
1172 (99.3%) exact matches, in which:  
1161 unique CDR3  
13 unique J



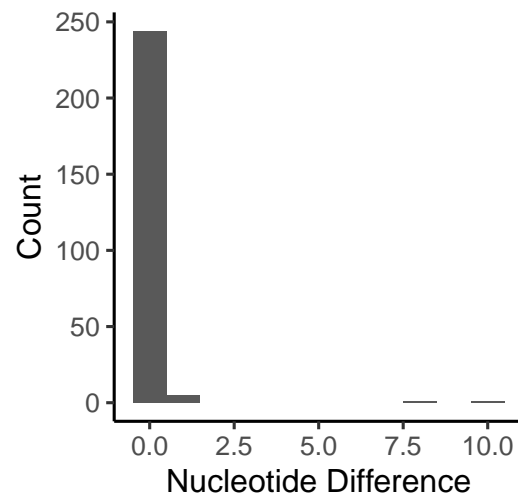
### TRBV5-8\*ap01

848 sequences assigned  
845 (99.6%) exact matches, in which:  
836 unique CDR3  
13 unique J



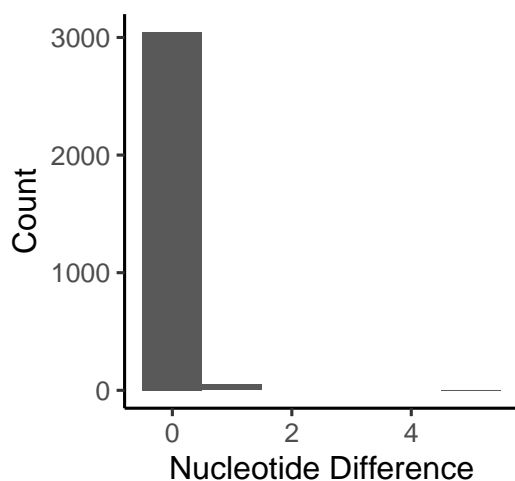
### TRBV6-7\*ap01

251 sequences assigned  
244 (97.2%) exact matches, in which:  
235 unique CDR3  
13 unique J



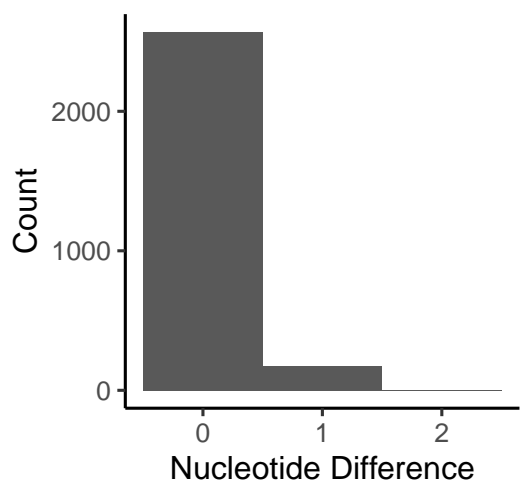
### TRBV5-6\*ap01

3098 sequences assigned  
3046 (98.3%) exact matches, in which:  
2953 unique CDR3  
13 unique J



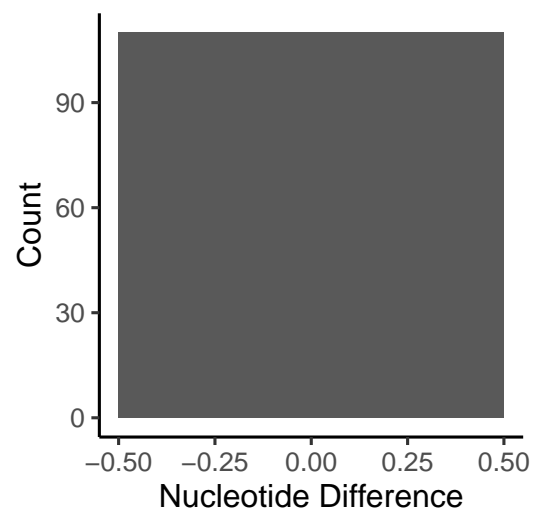
### TRBV6-1\*ap01

2746 sequences assigned  
2568 (93.5%) exact matches, in which:  
2515 unique CDR3  
13 unique J



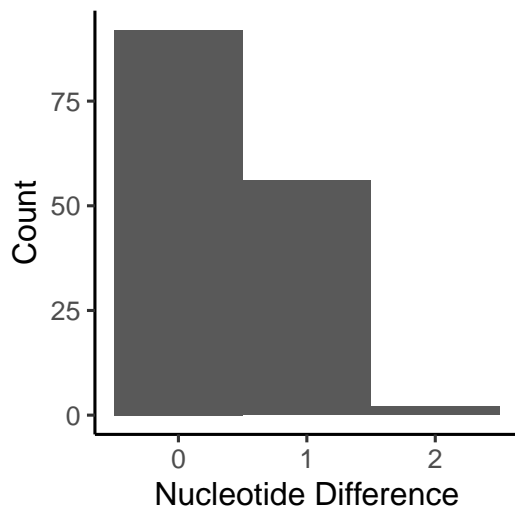
### TRBV6-8\*ap01

110 sequences assigned  
110 (100%) exact matches, in which:  
107 unique CDR3  
13 unique J



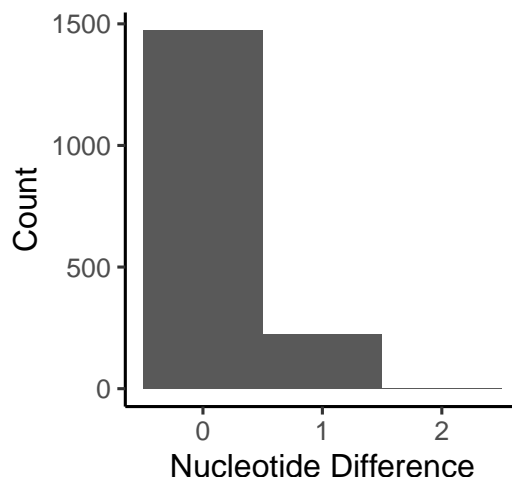
### TRBV6-9\*ap01

150 sequences assigned  
92 (61.3%) exact matches, in which:  
92 unique CDR3  
12 unique J



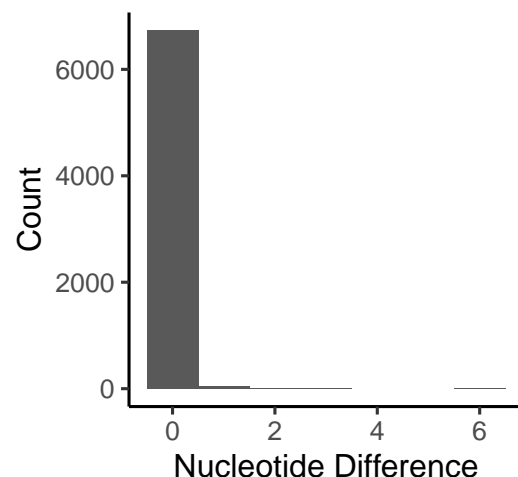
### TRBV6-56\*ap02

1700 sequences assigned  
1473 (86.6%) exact matches, in which:  
1432 unique CDR3  
13 unique J



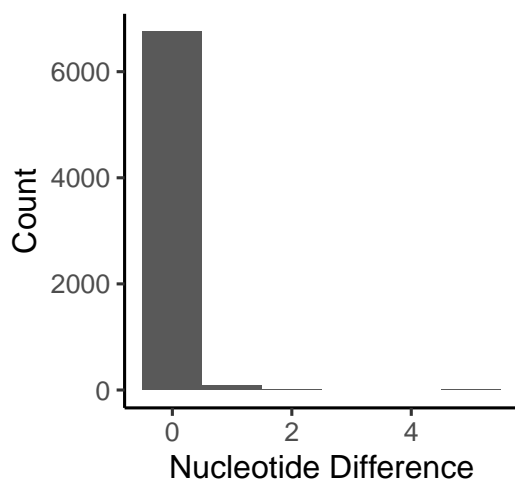
### TRBV7-2\*ap01

6786 sequences assigned  
6732 (99.2%) exact matches, in which:  
6624 unique CDR3  
13 unique J



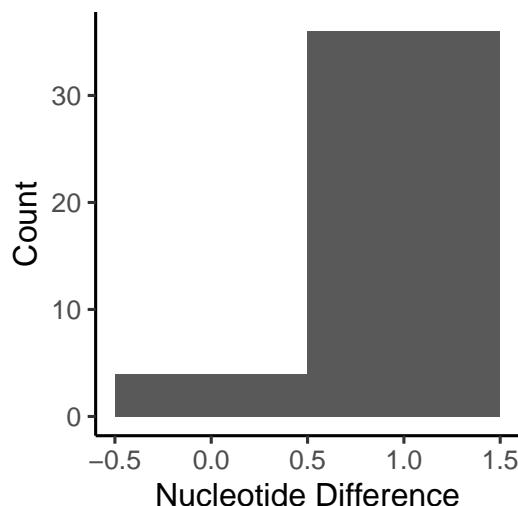
### TRBV6-23\*ap01

6848 sequences assigned  
6753 (98.6%) exact matches, in which:  
6526 unique CDR3  
13 unique J



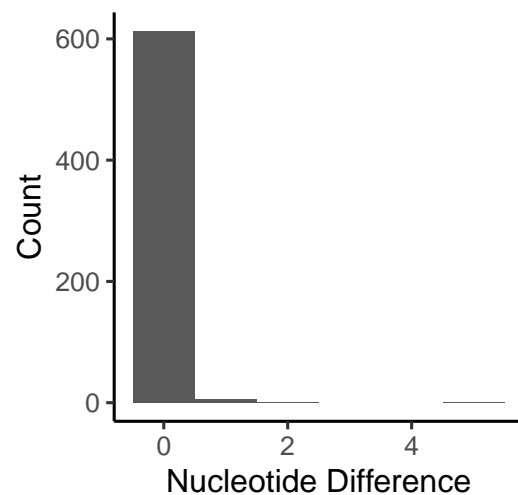
### TRBV7-1\*ap01\_T296C

40 sequences assigned  
4 (10%) exact matches, in which:  
4 unique CDR3  
4 unique J



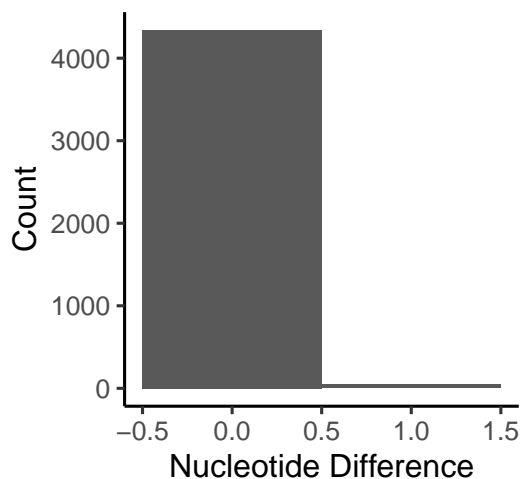
### TRBV7-3\*ap02

620 sequences assigned  
613 (98.9%) exact matches, in which:  
599 unique CDR3  
13 unique J



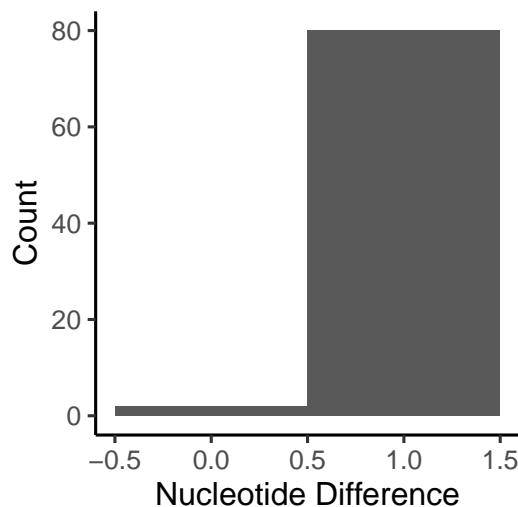
### TRBV6-56\*ap01

4389 sequences assigned  
4341 (98.9%) exact matches, in which:  
4204 unique CDR3  
13 unique J



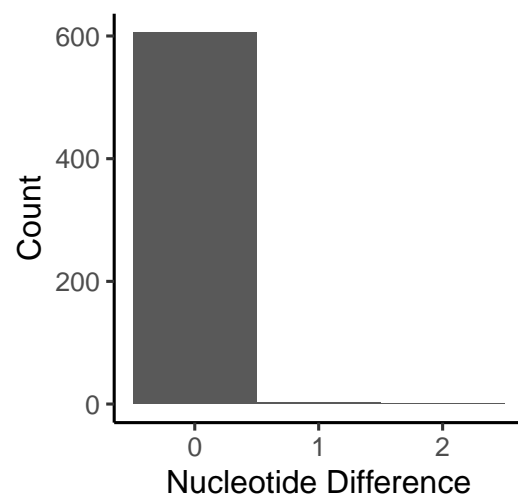
### TRBV7-1\*ap01\_T296C\_C

82 sequences assigned  
2 (2.4%) exact matches, in which:  
2 unique CDR3  
2 unique J



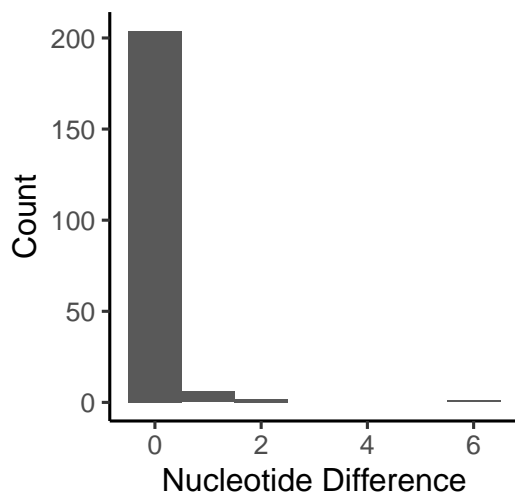
### TRBV7-3\*ap03

609 sequences assigned  
606 (99.5%) exact matches, in which:  
594 unique CDR3  
13 unique J



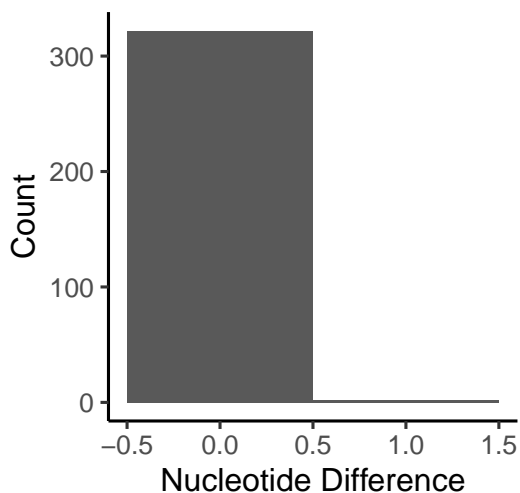
### TRBV7-4\*ap01

213 sequences assigned  
204 (95.8%) exact matches, in which:  
198 unique CDR3  
13 unique J



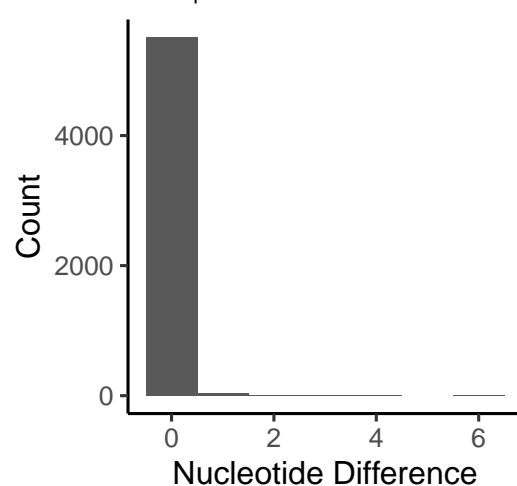
### TRBV7-7\*ap01\_C315T

324 sequences assigned  
322 (99.4%) exact matches, in which:  
314 unique CDR3  
13 unique J



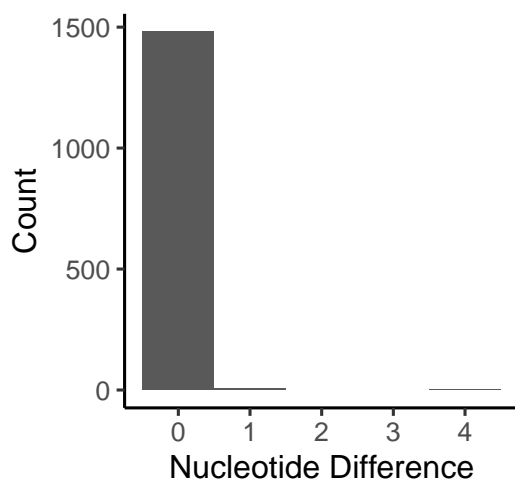
### TRBV7-9\*ap01

5560 sequences assigned  
5510 (99.1%) exact matches, in which:  
5415 unique CDR3  
13 unique J



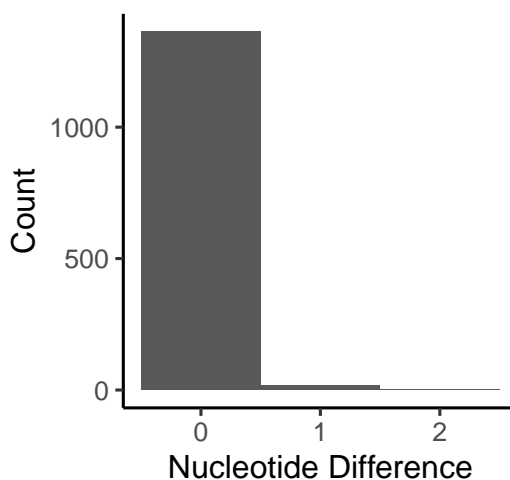
### TRBV7-6\*ap01

1490 sequences assigned  
1481 (99.4%) exact matches, in which:  
1460 unique CDR3  
13 unique J



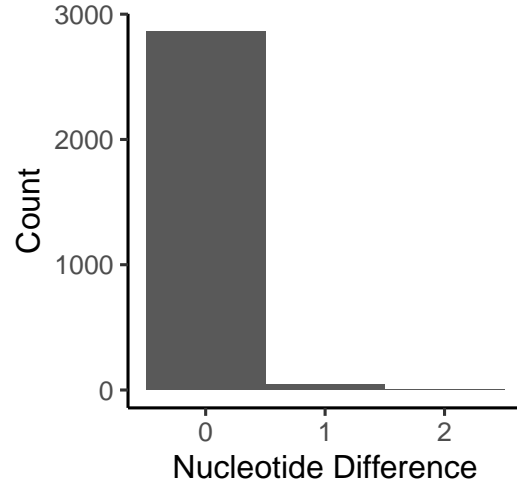
### TRBV7-8\*ap01

1381 sequences assigned  
1363 (98.7%) exact matches, in which:  
1338 unique CDR3  
13 unique J



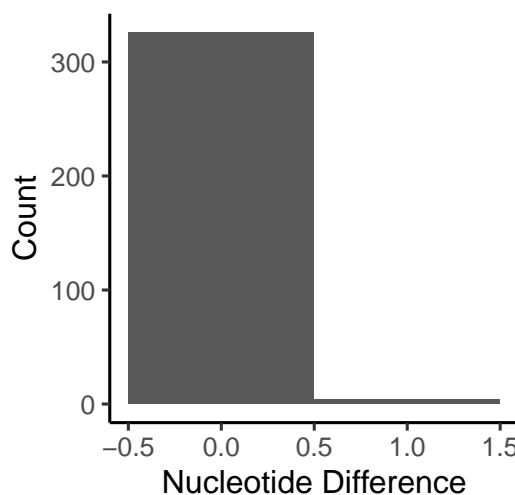
### TRBV29-1\*ap01

2905 sequences assigned  
2860 (98.5%) exact matches, in which:  
2794 unique CDR3  
13 unique J



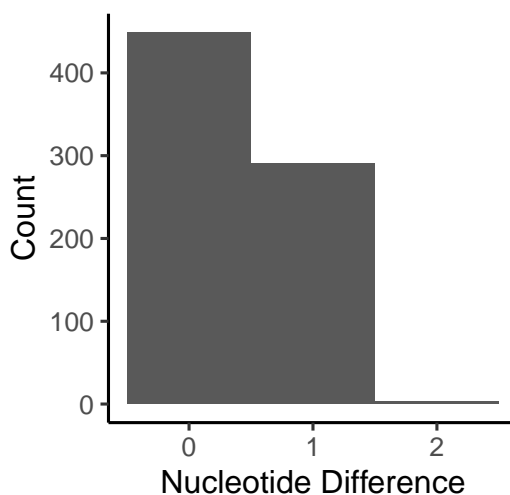
### TRBV7-7\*ap01

330 sequences assigned  
326 (98.8%) exact matches, in which:  
322 unique CDR3  
13 unique J



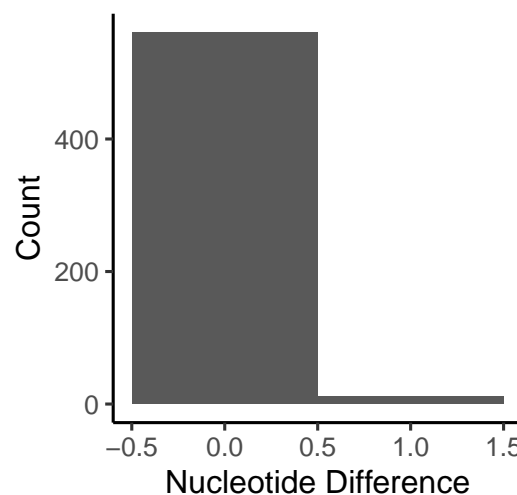
### TRBV7-8\*ap03

743 sequences assigned  
449 (60.4%) exact matches, in which:  
443 unique CDR3  
13 unique J

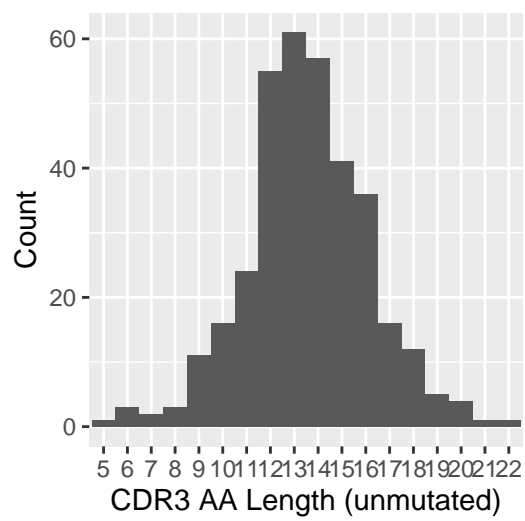


### TRBV29-1\*ap02

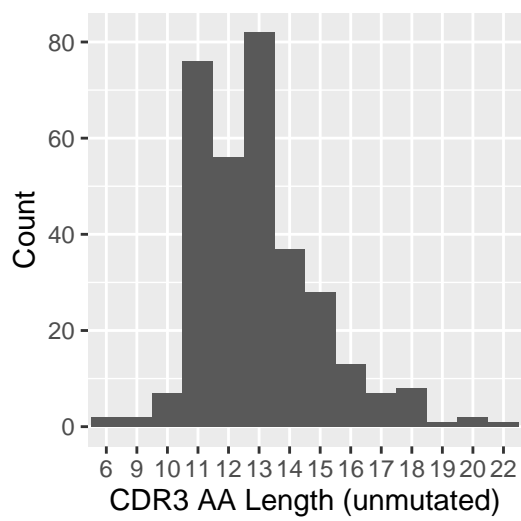
572 sequences assigned  
561 (98.1%) exact matches, in which:  
546 unique CDR3  
13 unique J



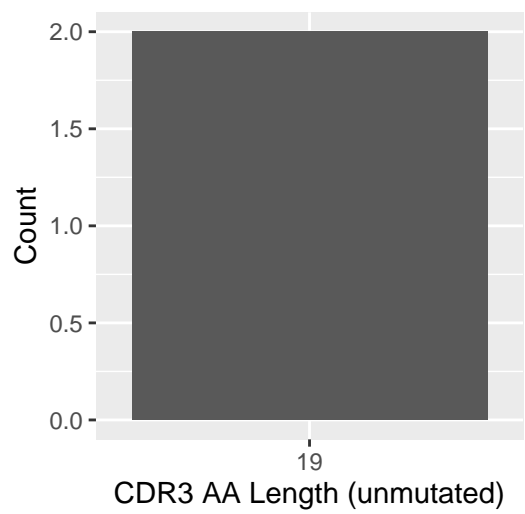
TRBV23-1\*ap01\_T304C



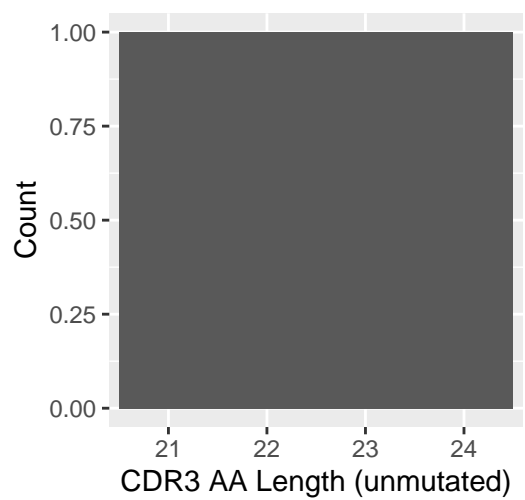
TRBV7-7\*ap01\_C315T

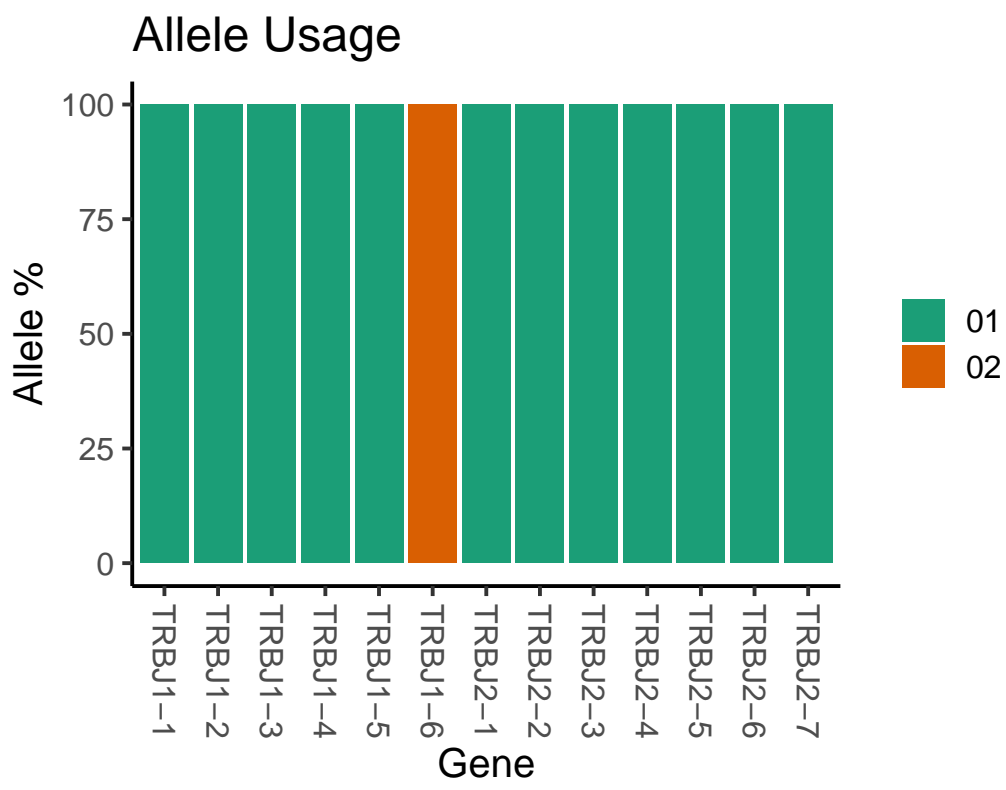


TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C





Warning – no inferred sequences found.

Warning – no inferred sequences found.