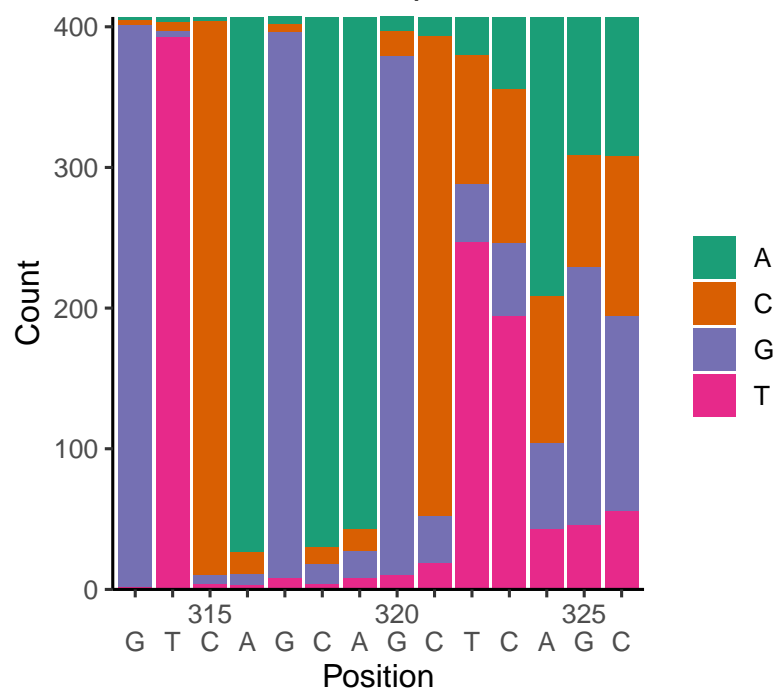
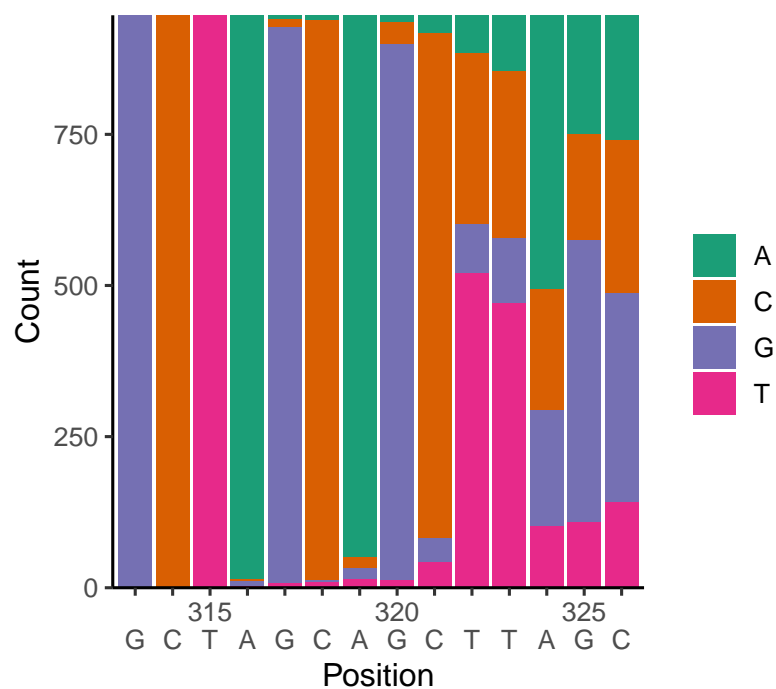


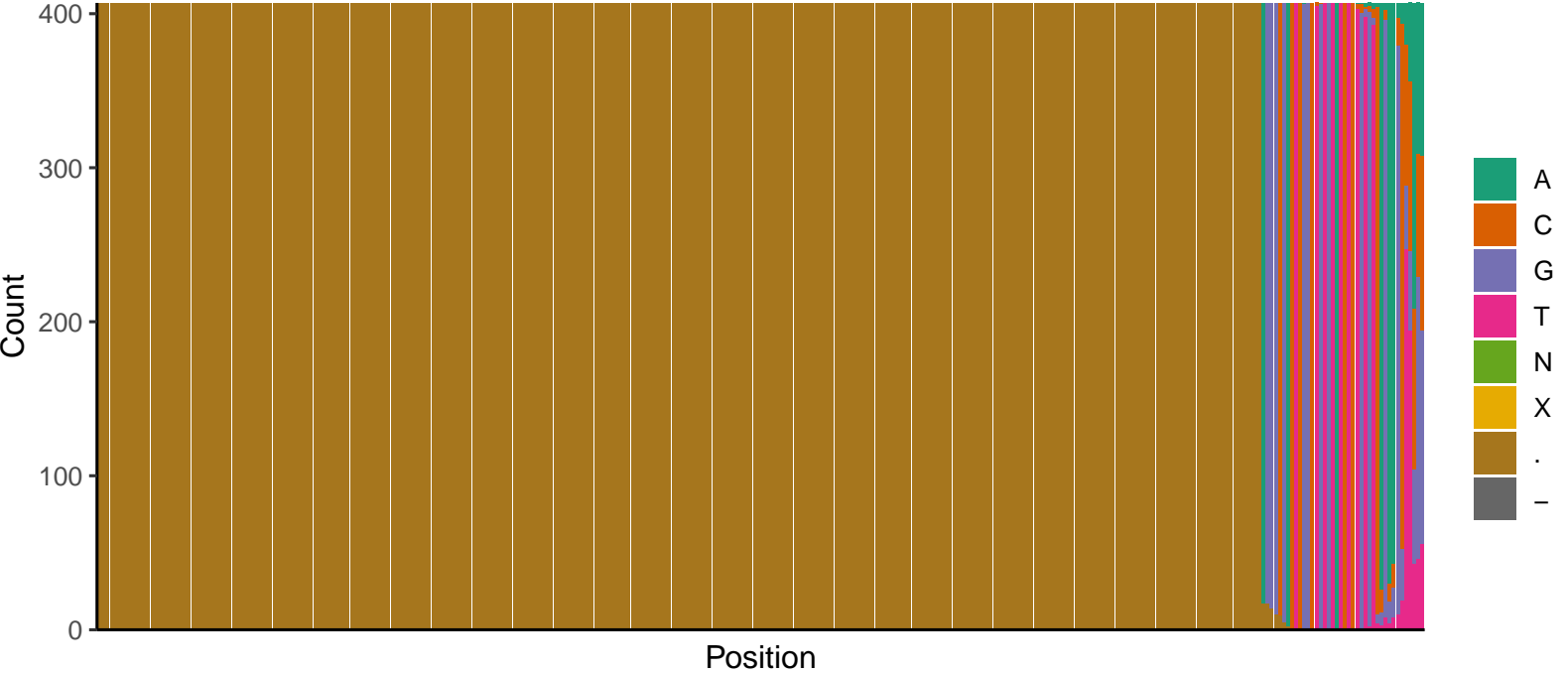
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



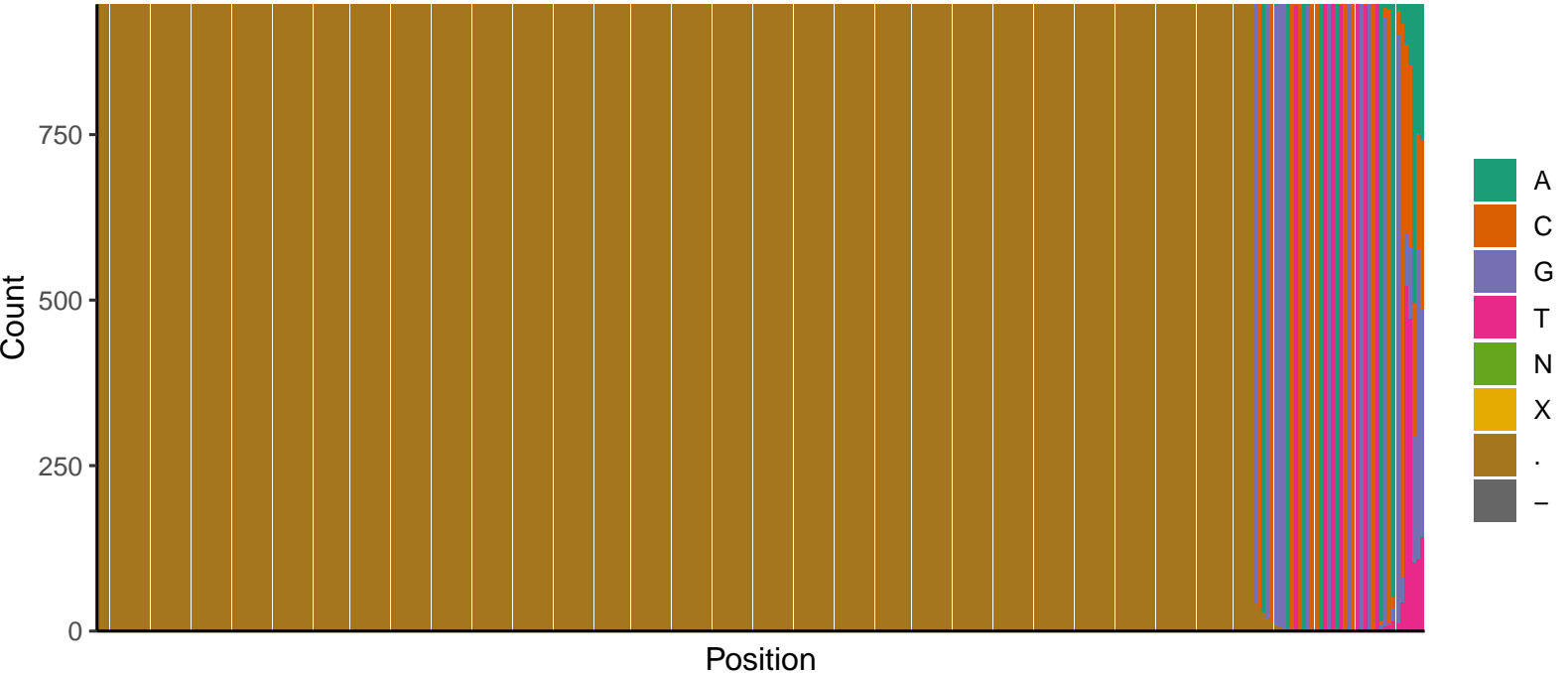
Gene TRBV7-7\*ap01\_C315T



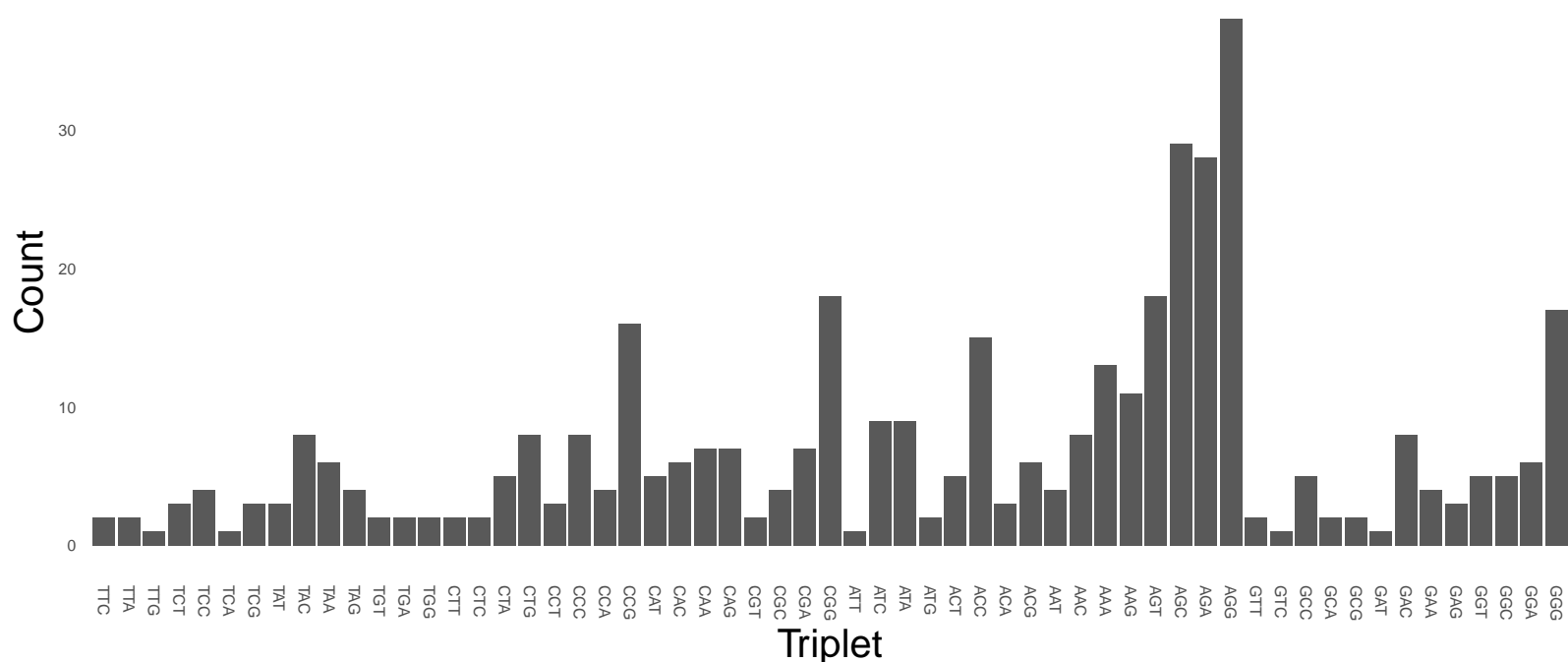
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



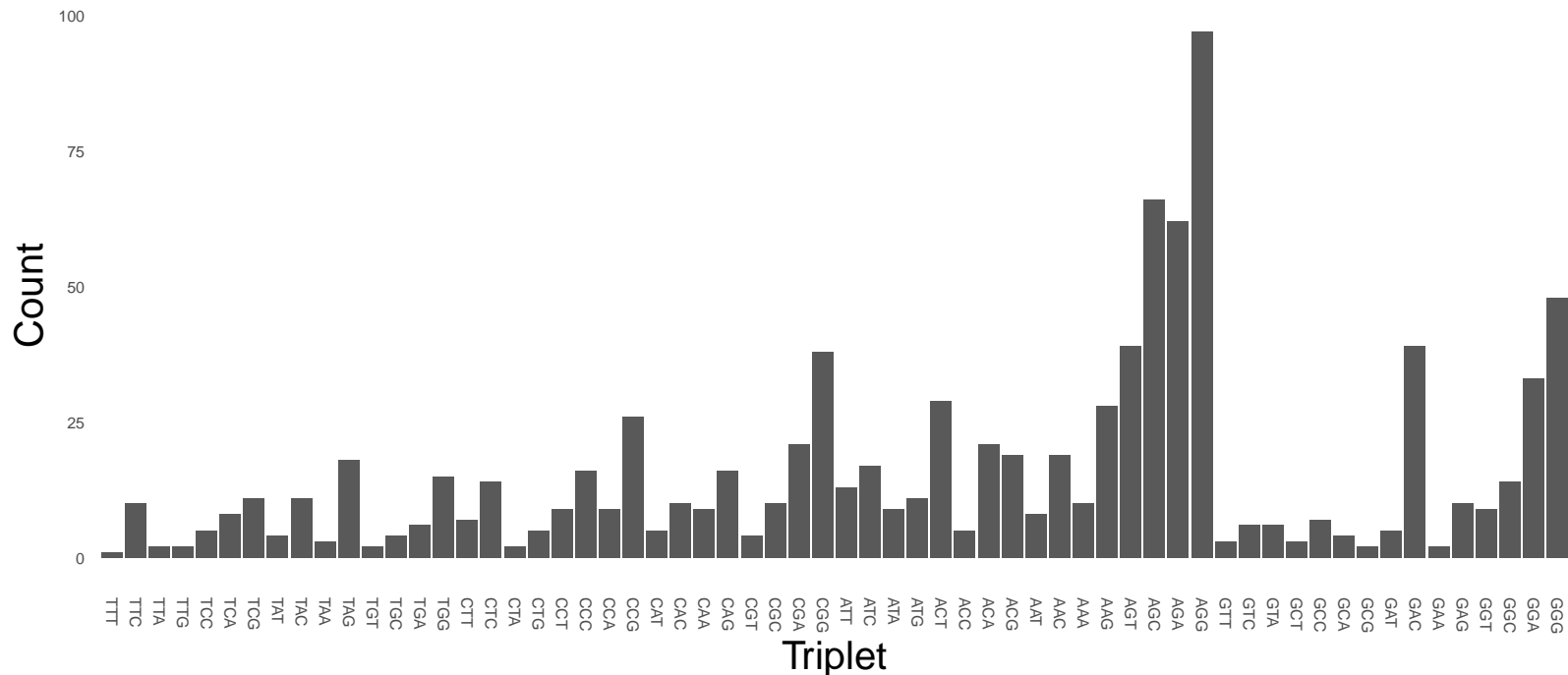
Gene TRBV7-7\*ap01\_C315T



TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet

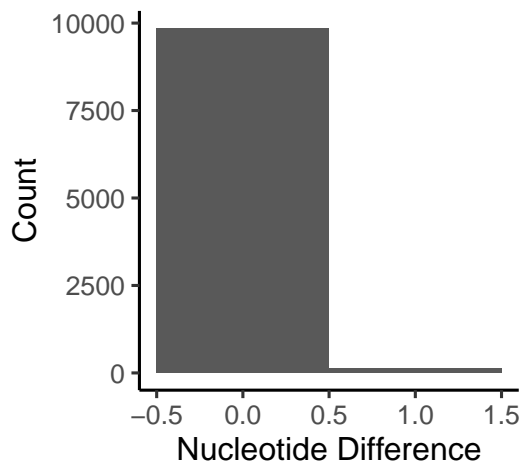


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



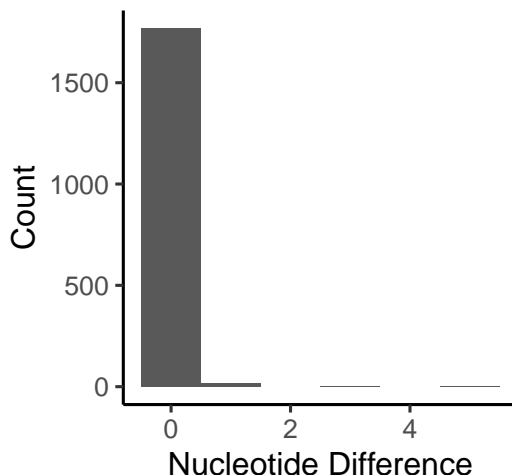
### TRBV20-1\*ap01

9977 sequences assigned  
9855 (98.8%) exact matches, in which:  
9749 unique CDR3  
14 unique J



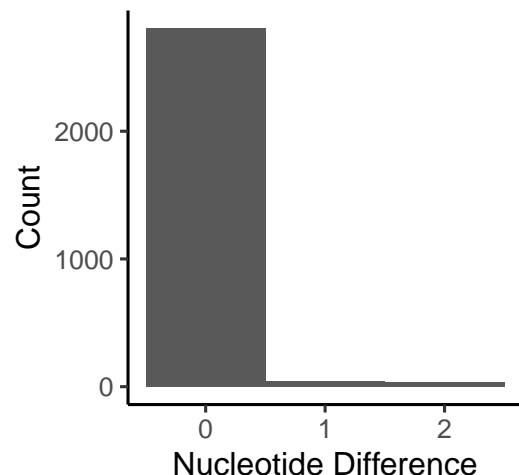
### TRBV10-2\*ap01

1787 sequences assigned  
1768 (98.9%) exact matches, in which:  
1743 unique CDR3  
14 unique J



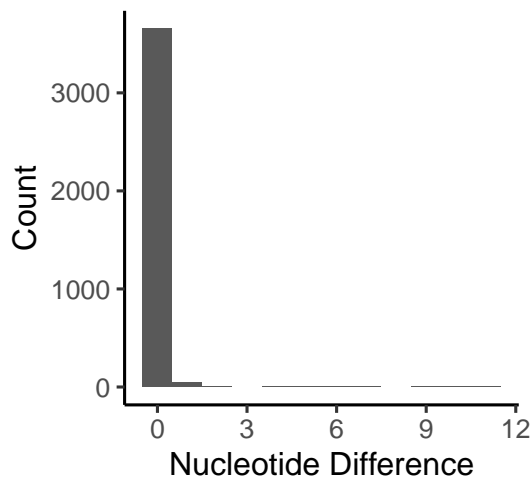
### TRBV13\*ap01

2884 sequences assigned  
2805 (97.3%) exact matches, in which:  
2755 unique CDR3  
14 unique J



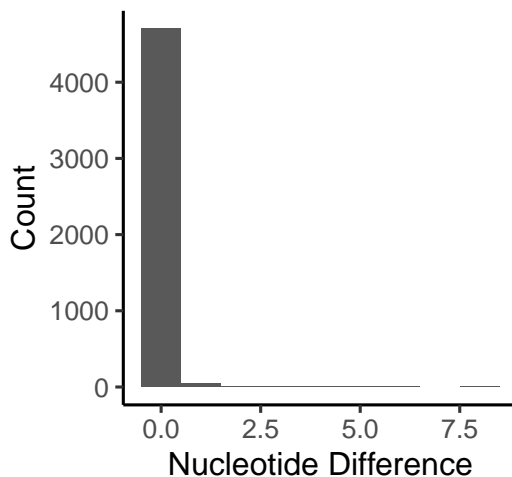
### TRBV10-1\*ap01

3714 sequences assigned  
3654 (98.4%) exact matches, in which:  
3581 unique CDR3  
14 unique J



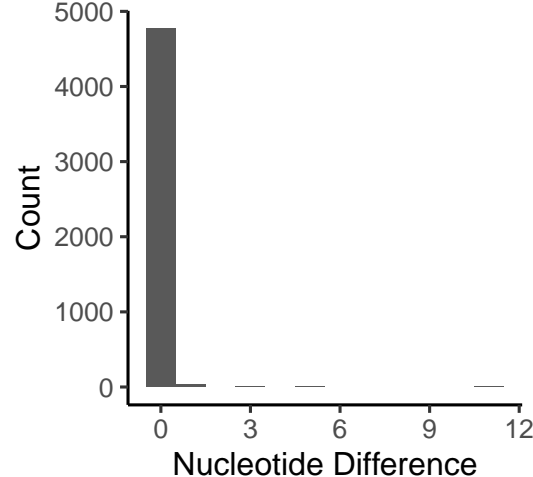
### TRBV10-3\*ap01

4760 sequences assigned  
4702 (98.8%) exact matches, in which:  
4623 unique CDR3  
14 unique J



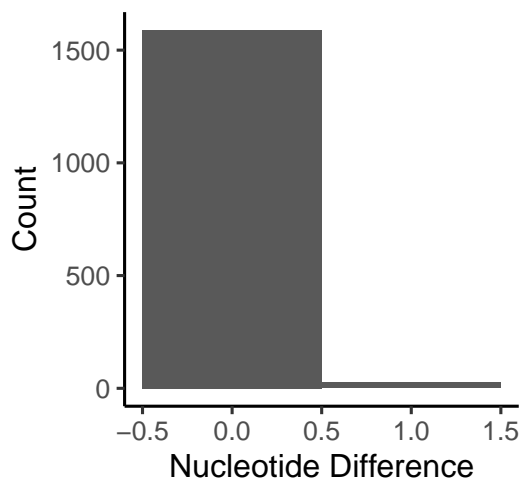
### TRBV14\*ap01

4808 sequences assigned  
4769 (99.2%) exact matches, in which:  
4718 unique CDR3  
14 unique J



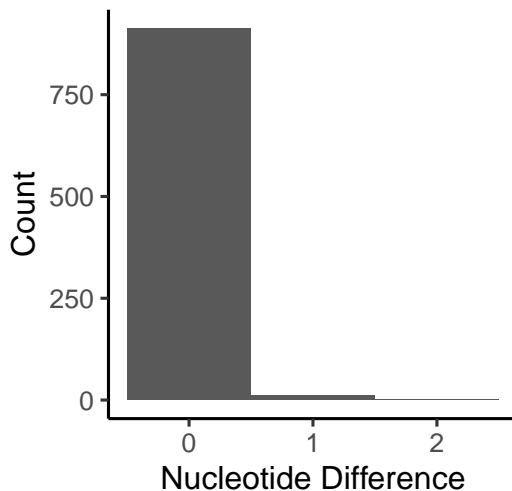
### TRBV20-1\*ap02

1615 sequences assigned  
1589 (98.4%) exact matches, in which:  
1563 unique CDR3  
14 unique J



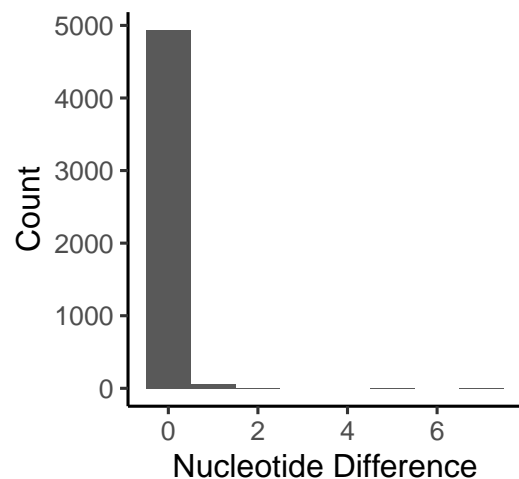
### TRBV1\*ap01

925 sequences assigned  
913 (98.7%) exact matches, in which:  
892 unique CDR3  
14 unique J



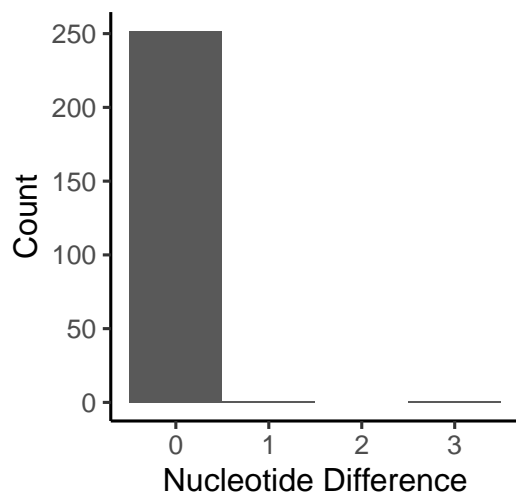
### TRBV15\*ap02

5000 sequences assigned  
4936 (98.7%) exact matches, in which:  
4849 unique CDR3  
14 unique J



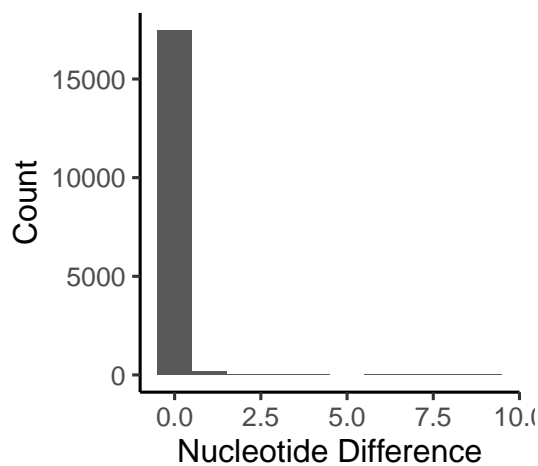
### TRBV16\*ap01

254 sequences assigned  
252 (99.2%) exact matches, in which:  
250 unique CDR3  
14 unique J



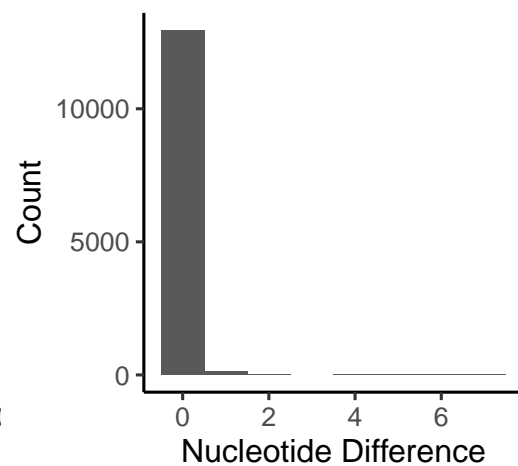
### TRBV19\*ap01

17671 sequences assigned  
17476 (98.9%) exact matches, in which:  
17324 unique CDR3  
14 unique J



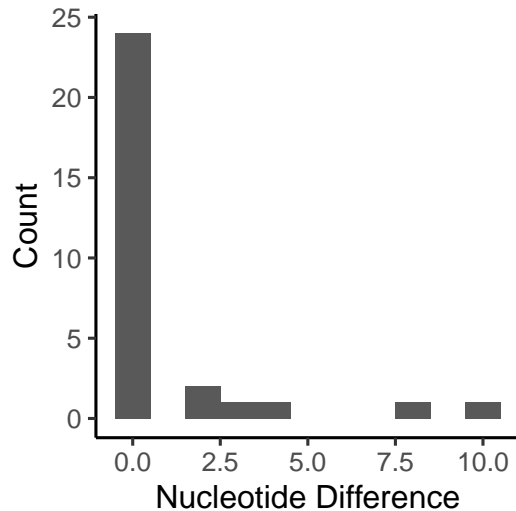
### TRBV28\*ap01

13096 sequences assigned  
12954 (98.9%) exact matches, in which:  
12748 unique CDR3  
14 unique J



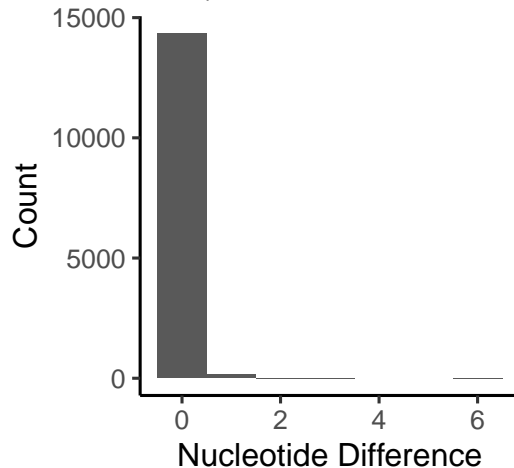
### TRBV17\*ap01

30 sequences assigned  
24 (80%) exact matches, in which:  
24 unique CDR3  
11 unique J



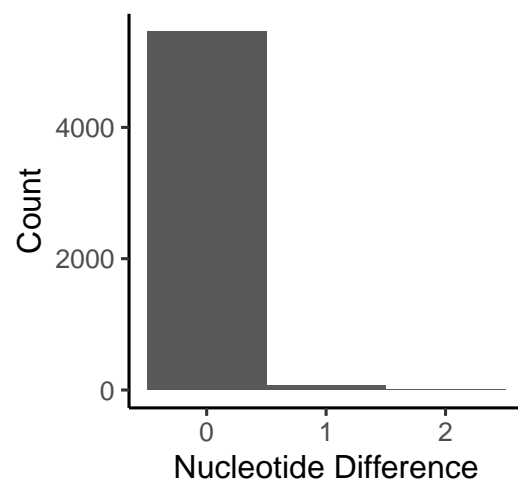
### TRBV2\*ap01

14517 sequences assigned  
14341 (98.8%) exact matches, in which:  
14100 unique CDR3  
14 unique J



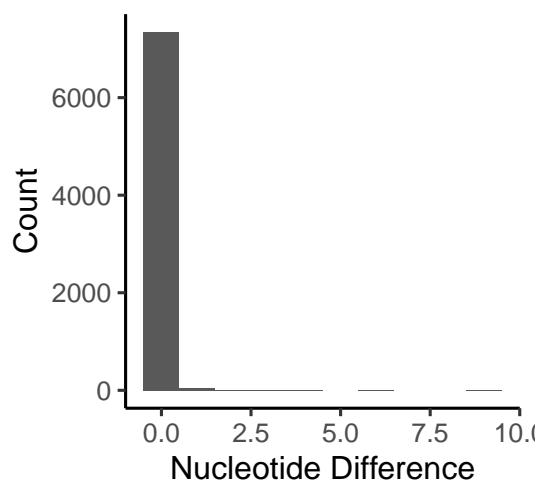
### TRBV30\*ap01

5530 sequences assigned  
5457 (98.7%) exact matches, in which:  
5379 unique CDR3  
14 unique J



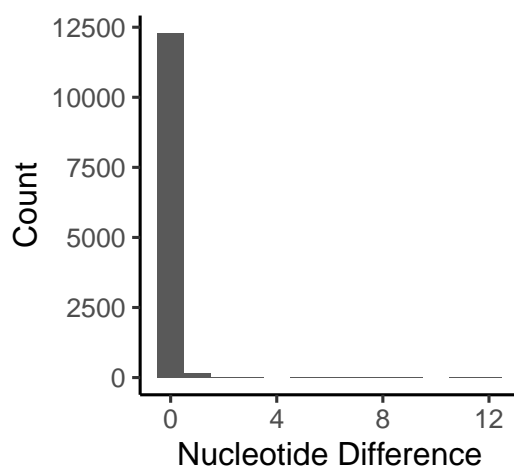
### TRBV18\*ap01

7403 sequences assigned  
7345 (99.2%) exact matches, in which:  
7289 unique CDR3  
14 unique J



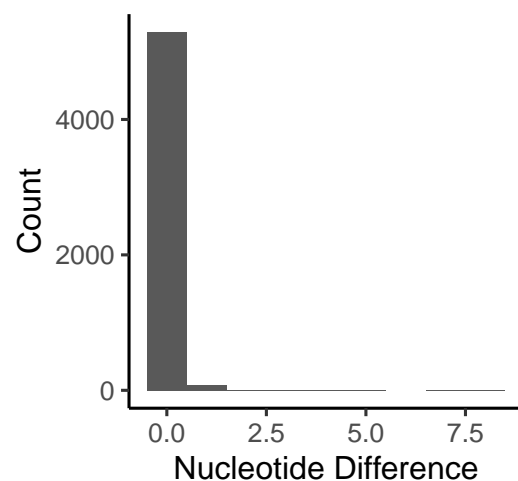
### TRBV27\*ap01

12489 sequences assigned  
12301 (98.5%) exact matches, in which:  
12096 unique CDR3  
14 unique J



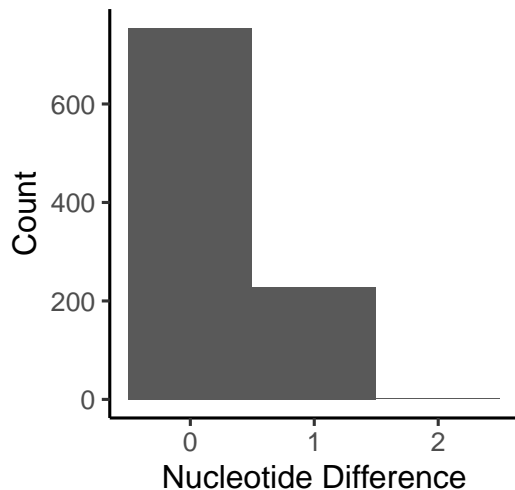
### TRBV30\*ap02

5381 sequences assigned  
5291 (98.3%) exact matches, in which:  
5255 unique CDR3  
13 unique J



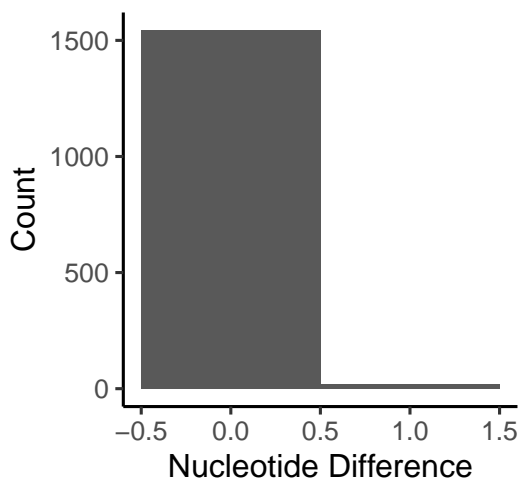
### TRBV30\*ap03

986 sequences assigned  
755 (76.6%) exact matches, in which:  
746 unique CDR3  
13 unique J



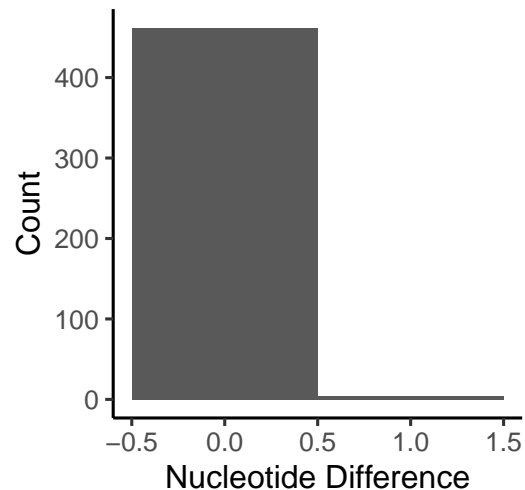
### TRBV11-1\*ap01

1561 sequences assigned  
1543 (98.8%) exact matches, in which:  
1524 unique CDR3  
14 unique J



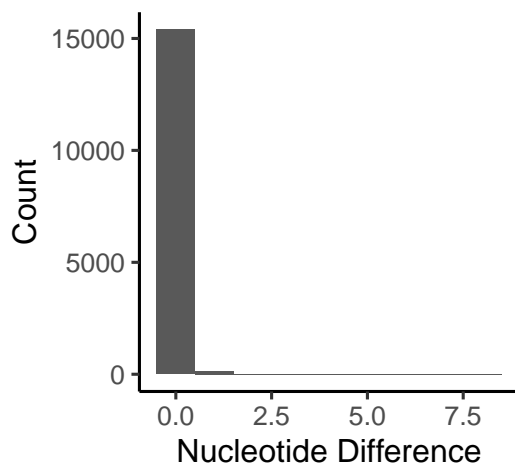
### TRBV12-1\*ap01

466 sequences assigned  
462 (99.1%) exact matches, in which:  
451 unique CDR3  
14 unique J



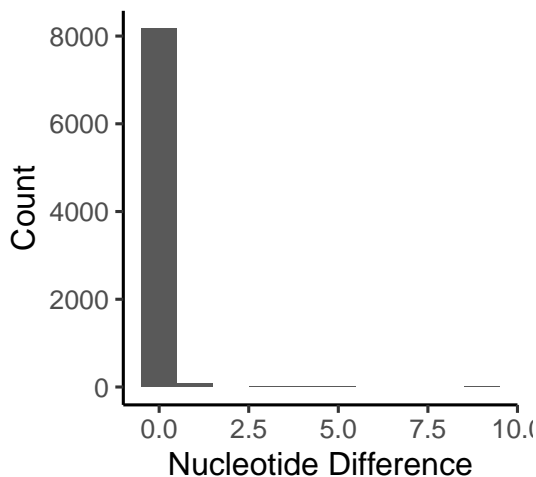
### TRBV9\*ap01

15564 sequences assigned  
15402 (99%) exact matches, in which:  
15219 unique CDR3  
14 unique J



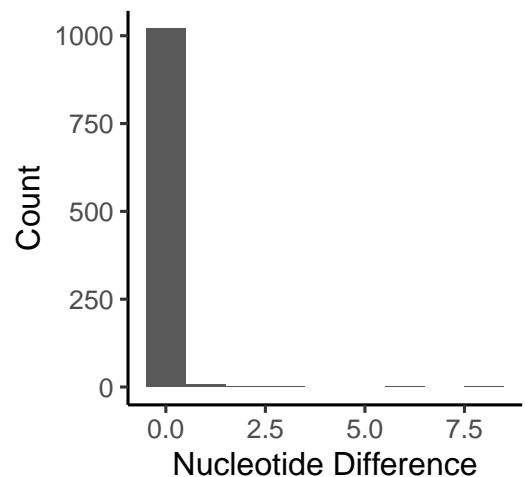
### TRBV11-2\*ap01

8243 sequences assigned  
8167 (99.1%) exact matches, in which:  
8036 unique CDR3  
14 unique J



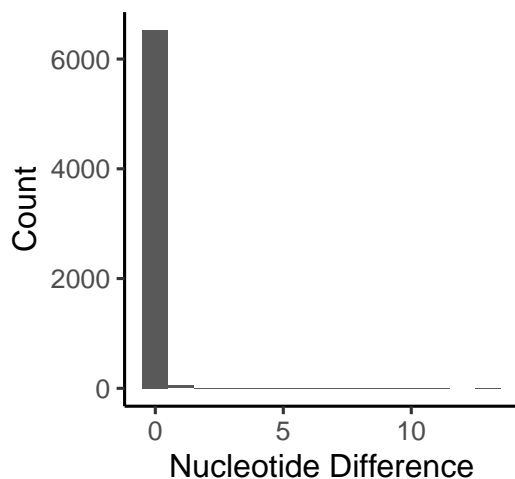
### TRBV12-2\*ap01

1030 sequences assigned  
1020 (99%) exact matches, in which:  
1005 unique CDR3  
14 unique J



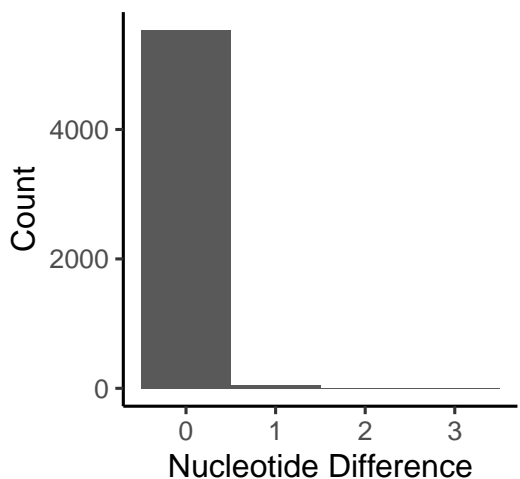
### TRBV21-1\*ap01

6610 sequences assigned  
6528 (98.8%) exact matches, in which:  
6446 unique CDR3  
14 unique J



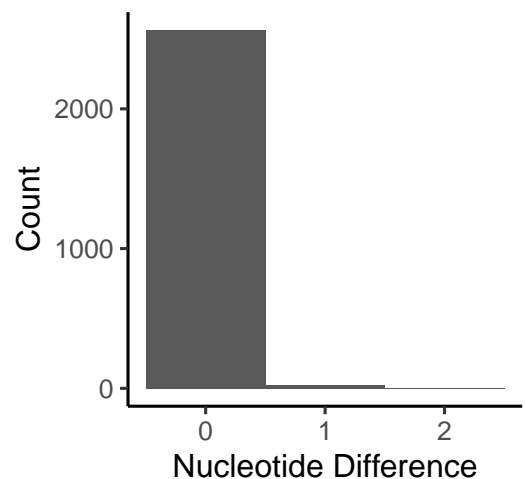
### TRBV11-3\*ap01

5589 sequences assigned  
5537 (99.1%) exact matches, in which:  
5484 unique CDR3  
14 unique J



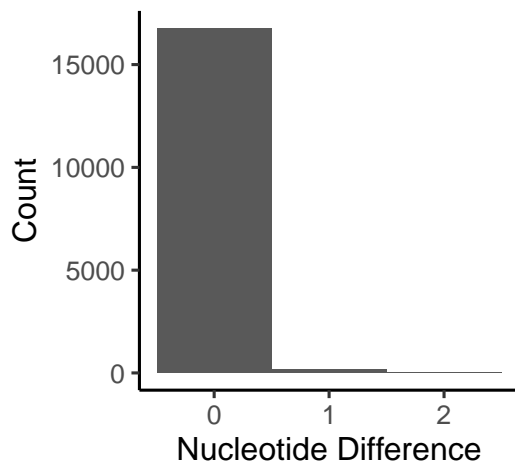
### TRBV12-5\*ap01

2592 sequences assigned  
2564 (98.9%) exact matches, in which:  
2516 unique CDR3  
14 unique J



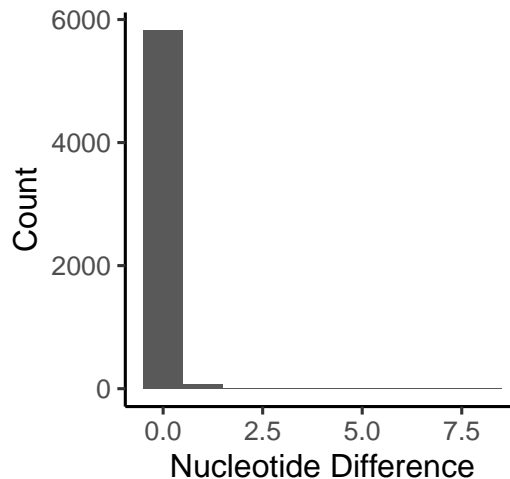
### TRBV12–34\*ap01

16953 sequences assigned  
16773 (98.9%) exact matches, in which:  
16549 unique CDR3  
14 unique J



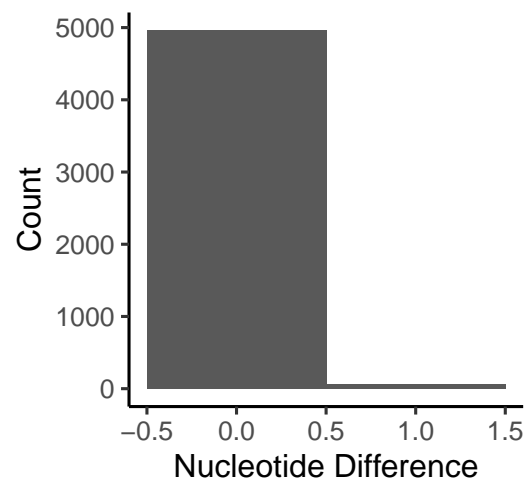
### TRBV24–1\*ap01

5905 sequences assigned  
5823 (98.6%) exact matches, in which:  
5751 unique CDR3  
14 unique J



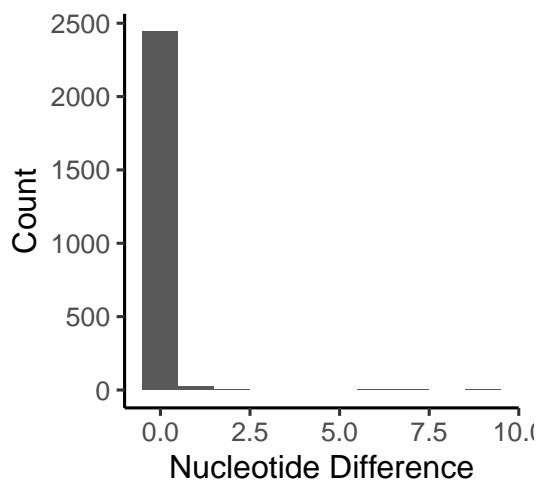
### TRBV4–3\*ap01

5018 sequences assigned  
4961 (98.9%) exact matches, in which:  
4921 unique CDR3  
14 unique J



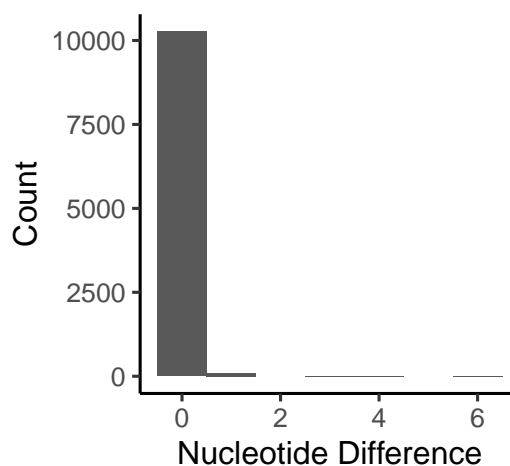
### TRBV23–1\*ap01

2474 sequences assigned  
2442 (98.7%) exact matches, in which:  
2404 unique CDR3  
14 unique J



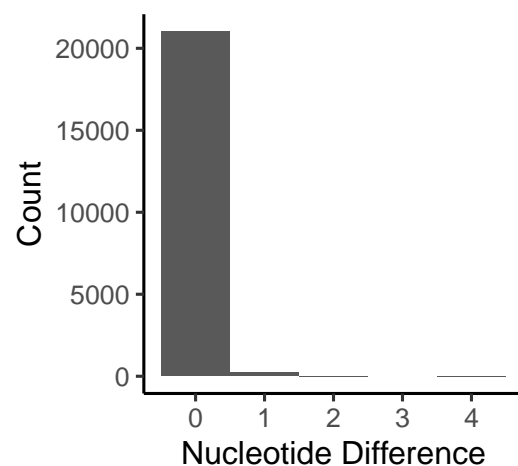
### TRBV4–1\*ap01

10370 sequences assigned  
10269 (99%) exact matches, in which:  
10096 unique CDR3  
14 unique J



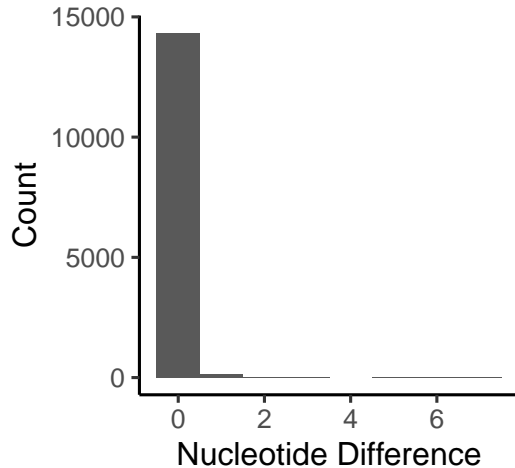
### TRBV5–1\*ap01

21272 sequences assigned  
21027 (98.8%) exact matches, in which:  
20621 unique CDR3  
15 unique J



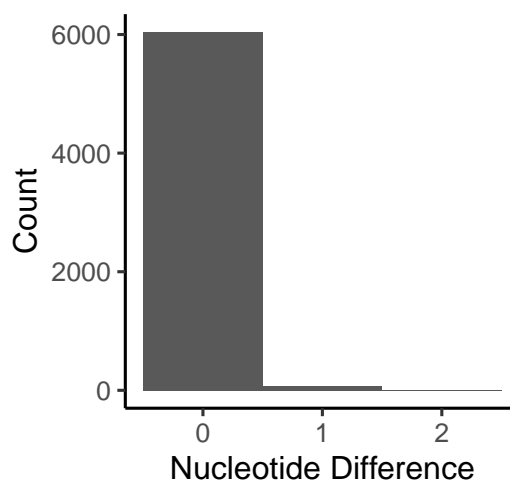
### TRBV3–12\*ap01

14519 sequences assigned  
14339 (98.8%) exact matches, in which:  
14111 unique CDR3  
14 unique J



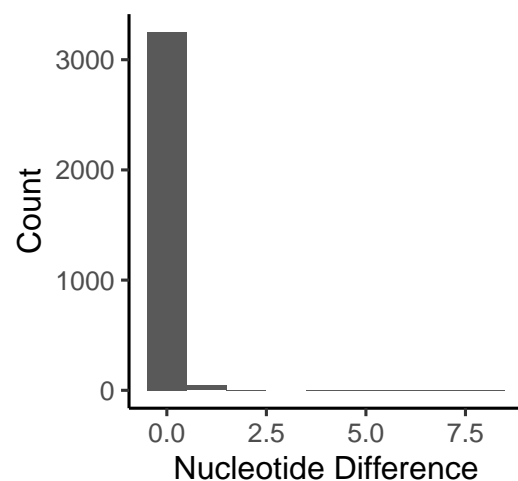
### TRBV4–2\*ap01

6113 sequences assigned  
6042 (98.8%) exact matches, in which:  
5986 unique CDR3  
14 unique J



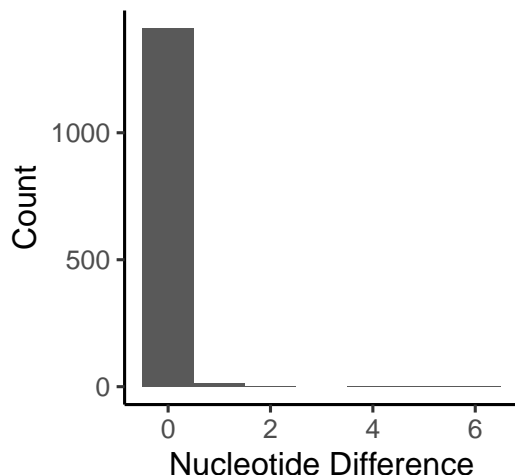
### TRBV25–1\*ap01

3306 sequences assigned  
3251 (98.3%) exact matches, in which:  
3206 unique CDR3  
14 unique J



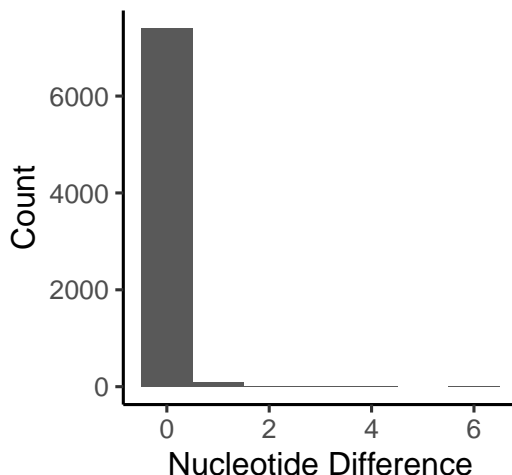
### TRBV5-3\*ap01

1431 sequences assigned  
1411 (98.6%) exact matches, in which:  
1398 unique CDR3  
14 unique J



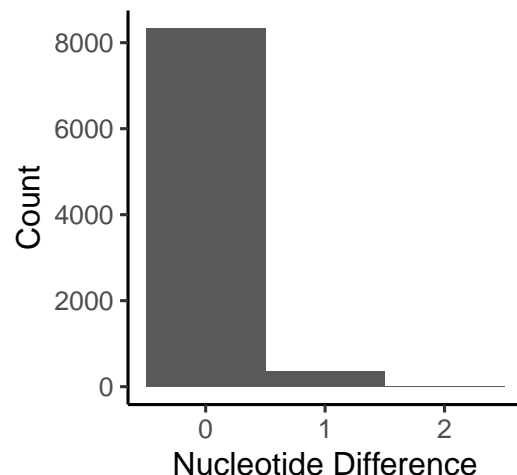
### TRBV5-6\*ap01

7496 sequences assigned  
7397 (98.7%) exact matches, in which:  
7268 unique CDR3  
14 unique J



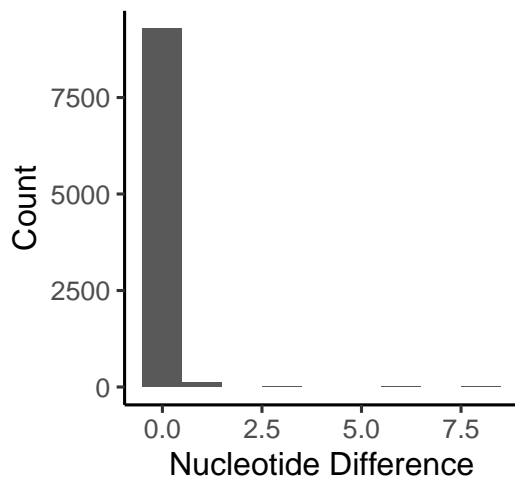
### TRBV6-1\*ap01

8703 sequences assigned  
8332 (95.7%) exact matches, in which:  
8195 unique CDR3  
14 unique J



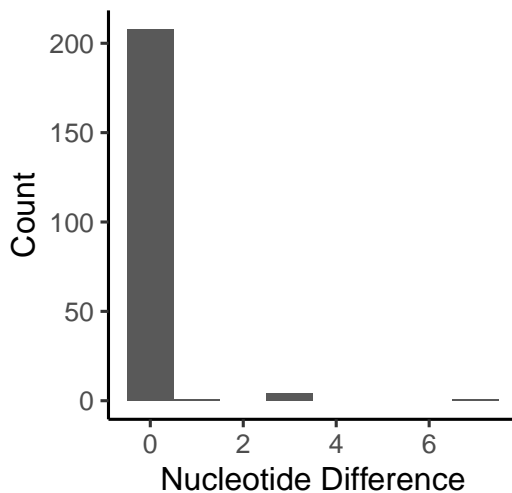
### TRBV5-4\*ap01

9394 sequences assigned  
9283 (98.8%) exact matches, in which:  
9126 unique CDR3  
14 unique J



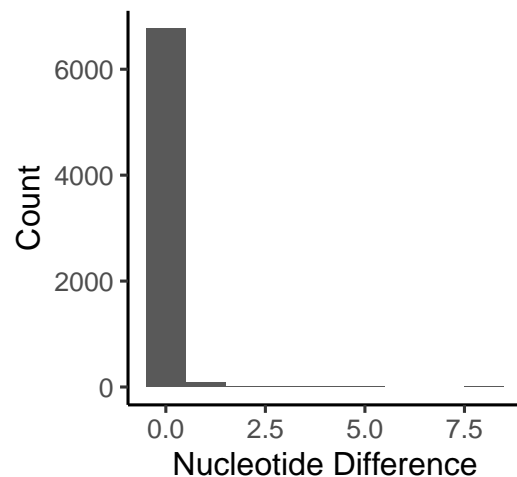
### TRBV5-7\*ap01

214 sequences assigned  
208 (97.2%) exact matches, in which:  
205 unique CDR3  
14 unique J



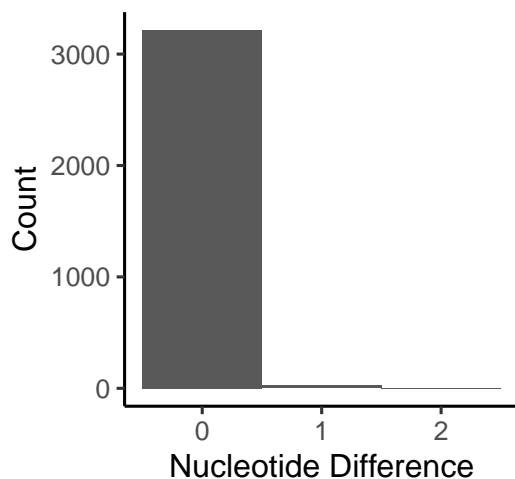
### TRBV6-4\*ap01

6862 sequences assigned  
6765 (98.6%) exact matches, in which:  
6679 unique CDR3  
14 unique J



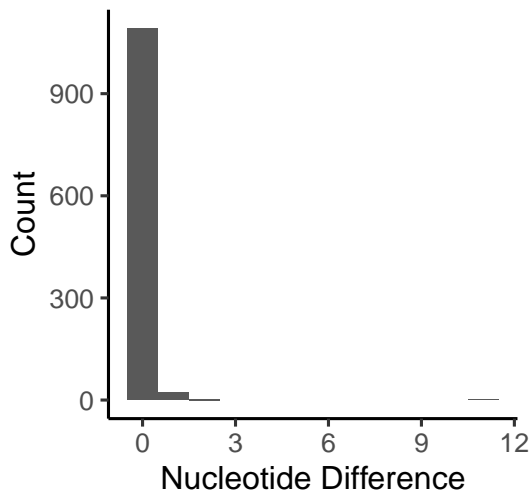
### TRBV5-5\*ap01

3242 sequences assigned  
3216 (99.2%) exact matches, in which:  
3191 unique CDR3  
14 unique J



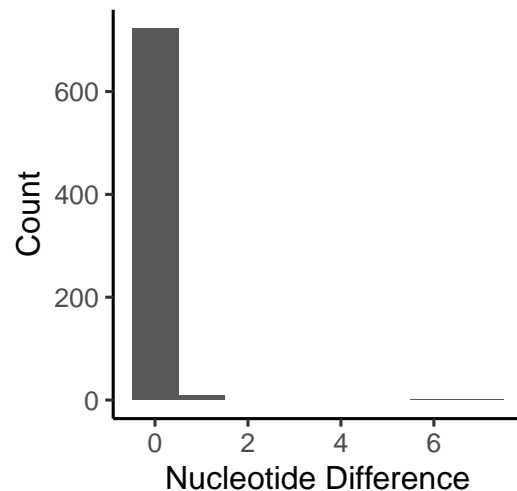
### TRBV5-8\*ap01

1119 sequences assigned  
1092 (97.6%) exact matches, in which:  
1082 unique CDR3  
13 unique J



### TRBV6-7\*ap01

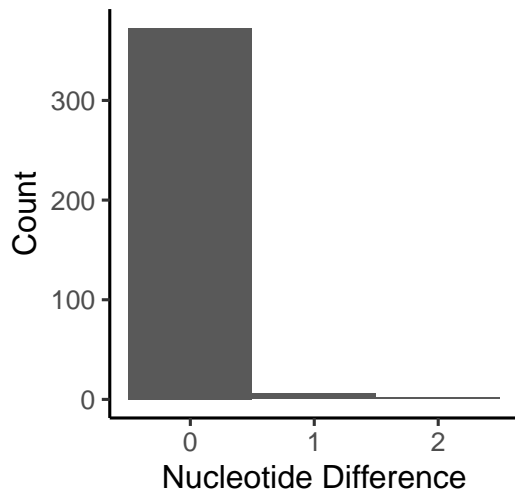
734 sequences assigned  
723 (98.5%) exact matches, in which:  
712 unique CDR3  
14 unique J





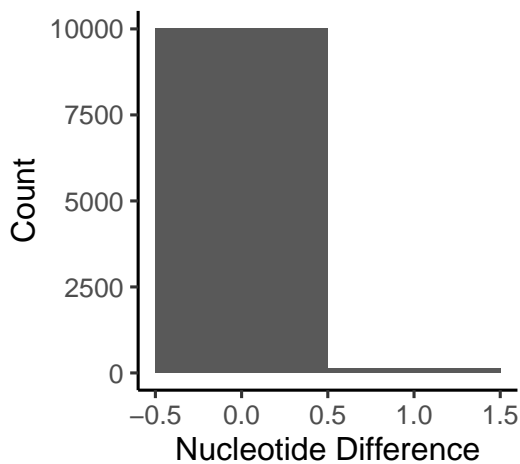
### TRBV6-8\*ap01

381 sequences assigned  
373 (97.9%) exact matches, in which:  
366 unique CDR3  
14 unique J



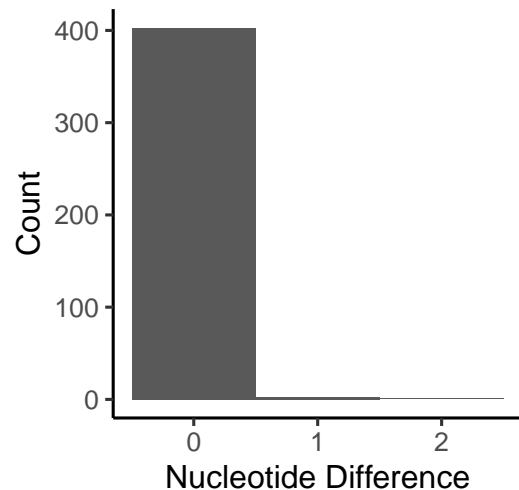
### TRBV6-56\*ap01

10147 sequences assigned  
10022 (98.8%) exact matches, in which:  
9846 unique CDR3  
14 unique J



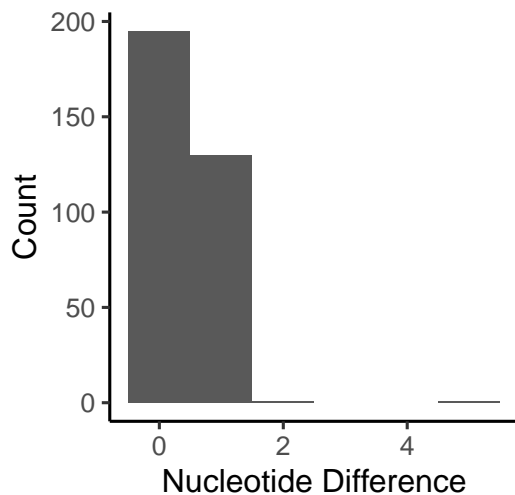
### TRBV7-1\*ap01\_G291C\_

407 sequences assigned  
403 (99%) exact matches, in which:  
395 unique CDR3  
14 unique J



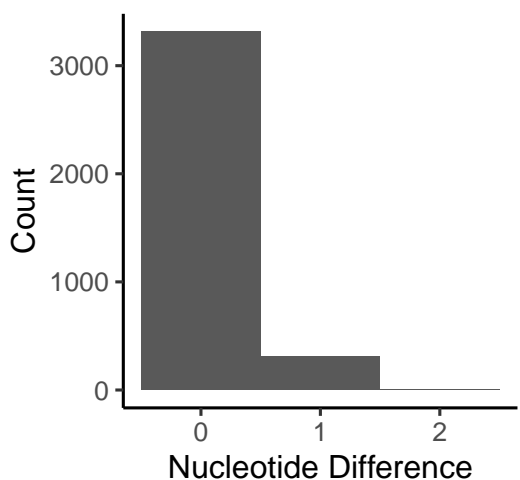
### TRBV6-9\*ap01

327 sequences assigned  
195 (59.6%) exact matches, in which:  
192 unique CDR3  
14 unique J



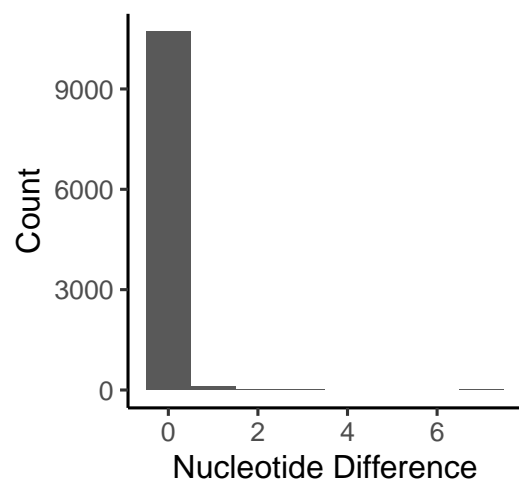
### TRBV6-56\*ap02

3632 sequences assigned  
3314 (91.2%) exact matches, in which:  
3256 unique CDR3  
14 unique J



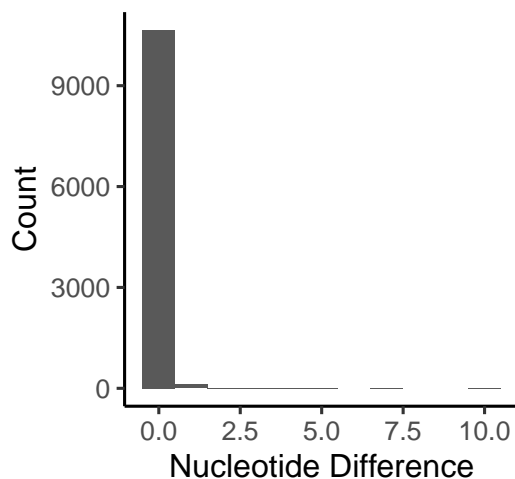
### TRBV7-2\*ap01

10818 sequences assigned  
10711 (99%) exact matches, in which:  
10614 unique CDR3  
14 unique J



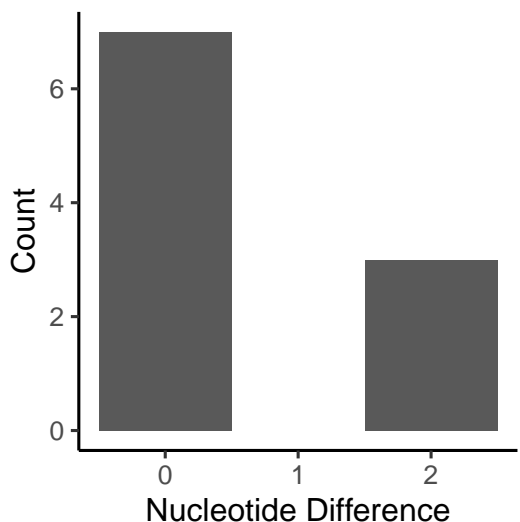
### TRBV6-23\*ap01

10789 sequences assigned  
10654 (98.7%) exact matches, in which:  
10469 unique CDR3  
14 unique J



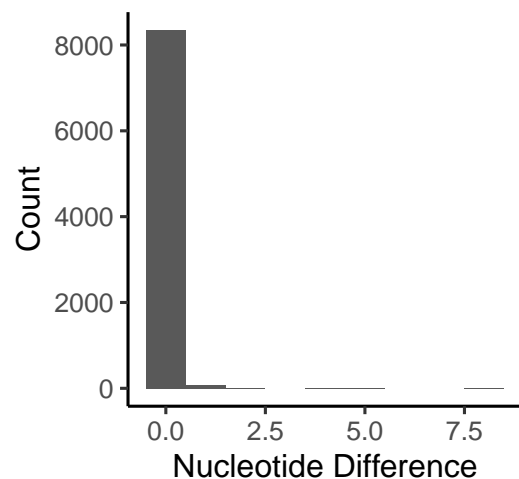
### TRBV7-1\*ap01

10 sequences assigned  
7 (70%) exact matches, in which:  
7 unique CDR3  
5 unique J



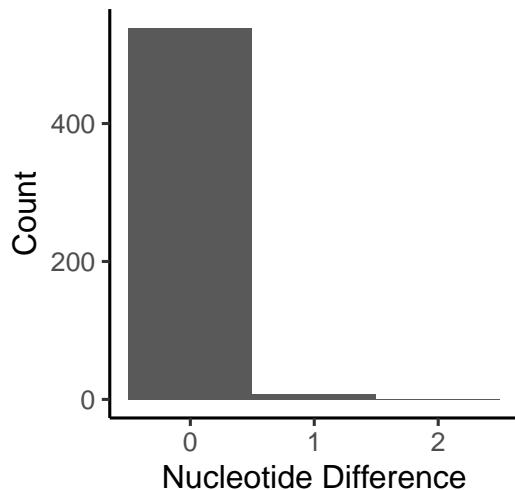
### TRBV7-3\*ap01

8431 sequences assigned  
8348 (99%) exact matches, in which:  
8264 unique CDR3  
14 unique J



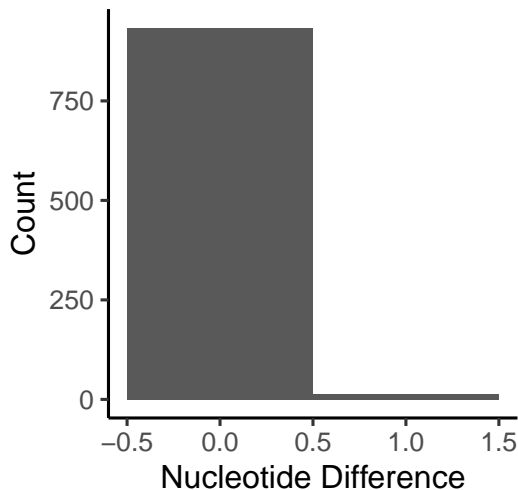
### TRBV7-4\*ap01

548 sequences assigned  
539 (98.4%) exact matches, in which:  
534 unique CDR3  
14 unique J



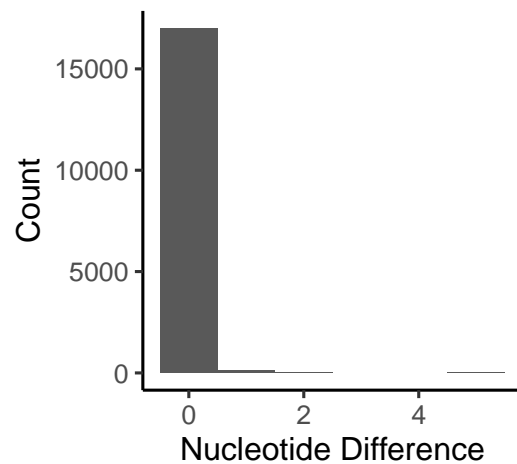
### TRBV7-7\*ap01\_C315T

947 sequences assigned  
934 (98.6%) exact matches, in which:  
924 unique CDR3  
14 unique J



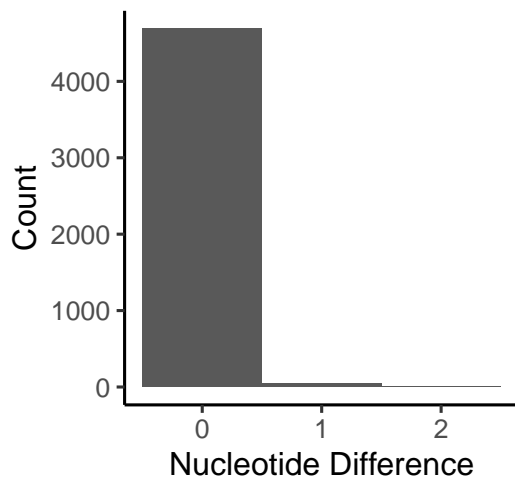
### TRBV7-9\*ap01

17141 sequences assigned  
17009 (99.2%) exact matches, in which:  
16808 unique CDR3  
14 unique J



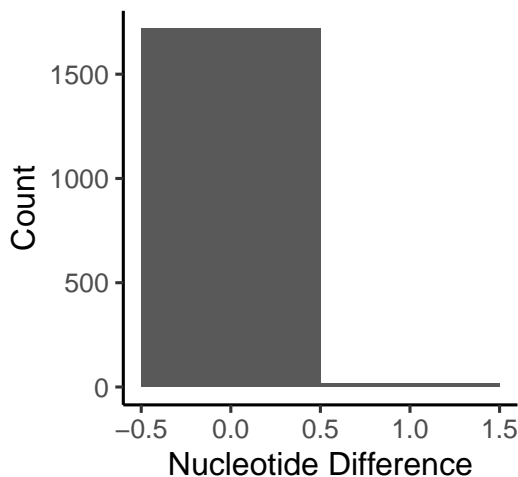
### TRBV7-6\*ap01

4740 sequences assigned  
4689 (98.9%) exact matches, in which:  
4614 unique CDR3  
14 unique J



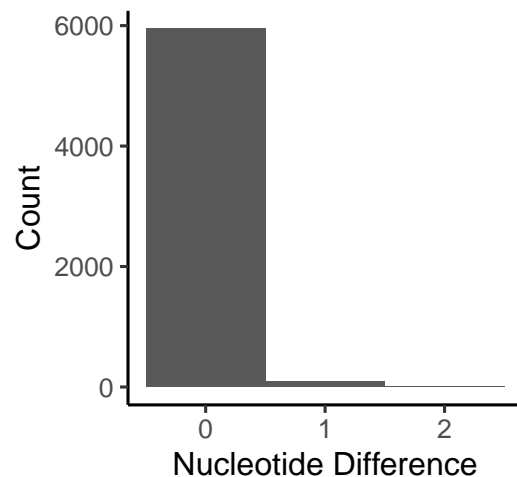
### TRBV7-8\*ap01

1733 sequences assigned  
1718 (99.1%) exact matches, in which:  
1699 unique CDR3  
14 unique J



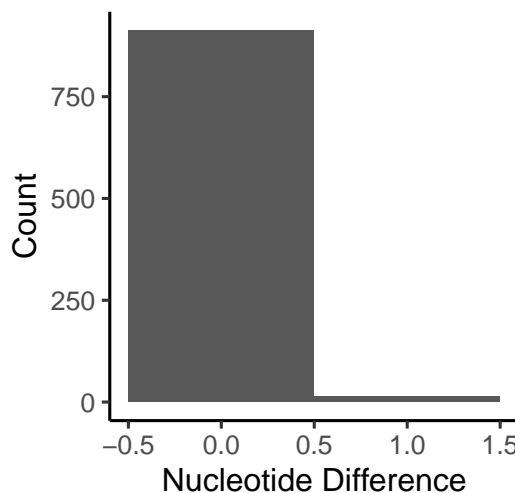
### TRBV29-1\*ap01

6046 sequences assigned  
5948 (98.4%) exact matches, in which:  
5839 unique CDR3  
14 unique J



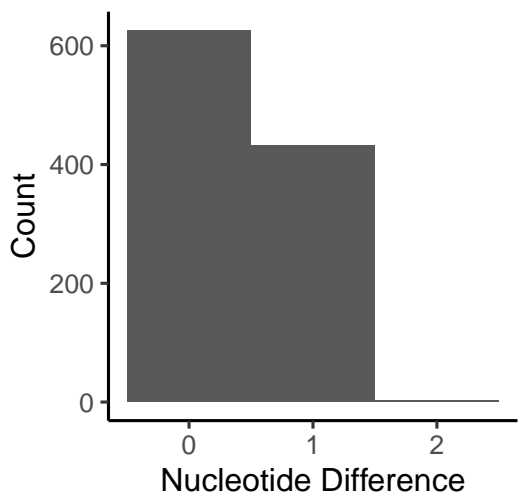
### TRBV7-7\*ap01

927 sequences assigned  
913 (98.5%) exact matches, in which:  
903 unique CDR3  
14 unique J



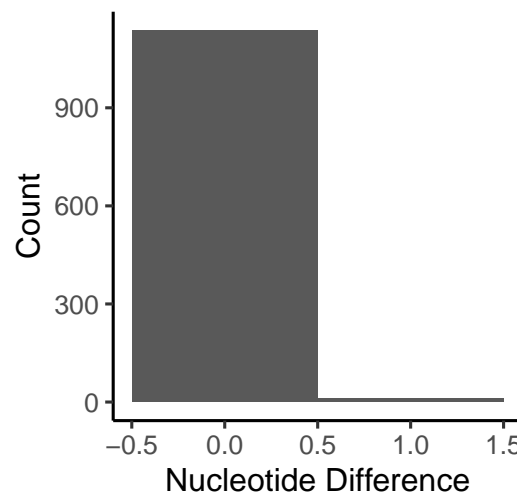
### TRBV7-8\*ap03

1061 sequences assigned  
626 (59%) exact matches, in which:  
625 unique CDR3  
13 unique J

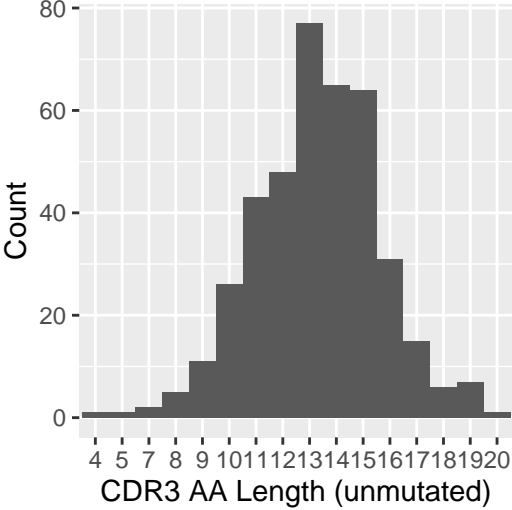


### TRBV29-1\*ap02

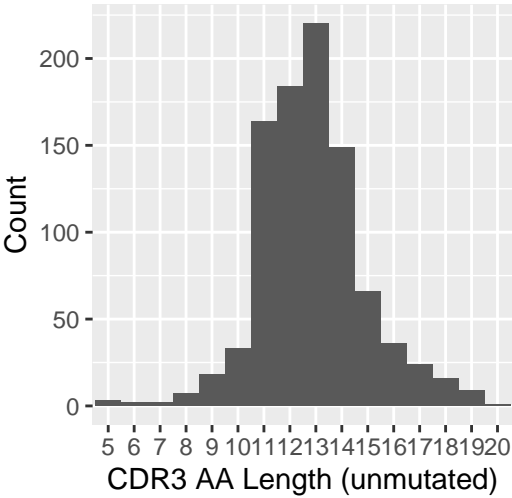
1147 sequences assigned  
1137 (99.1%) exact matches, in which:  
1120 unique CDR3  
14 unique J

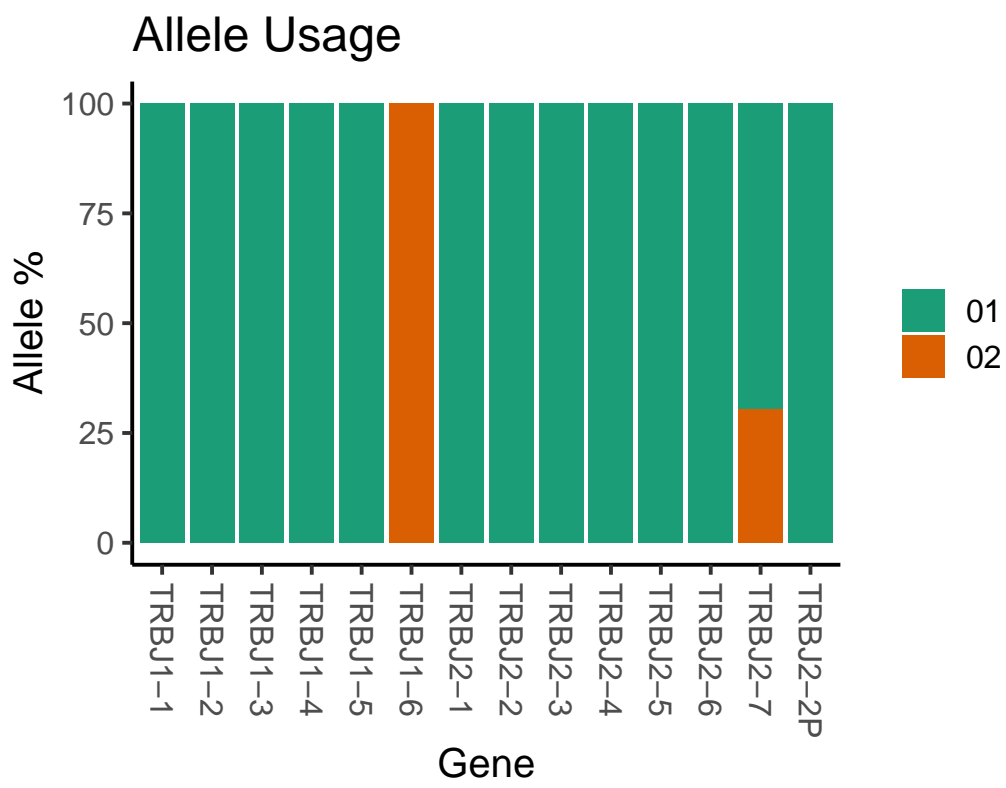


TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-7\*ap01\_C315T





Sequence Count by TRBJ2–7 allele usage

