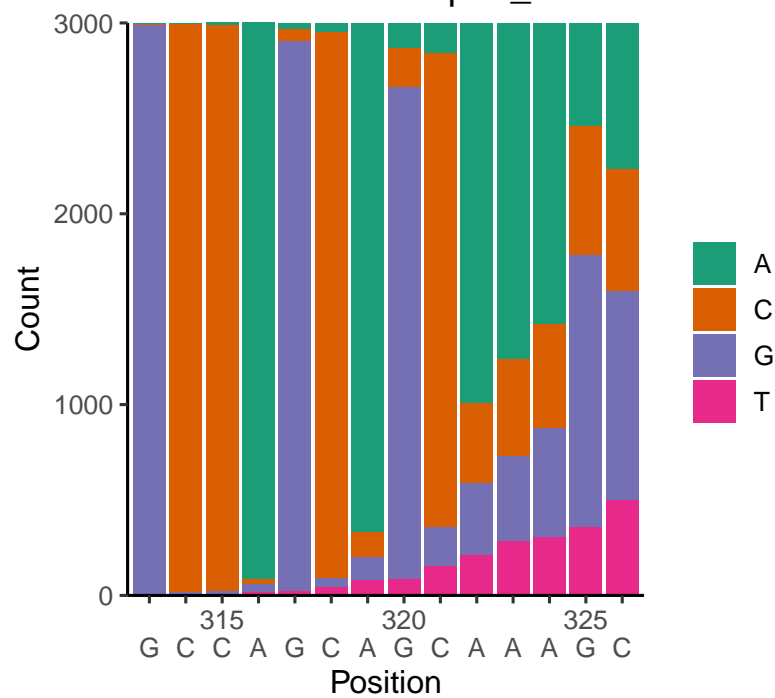
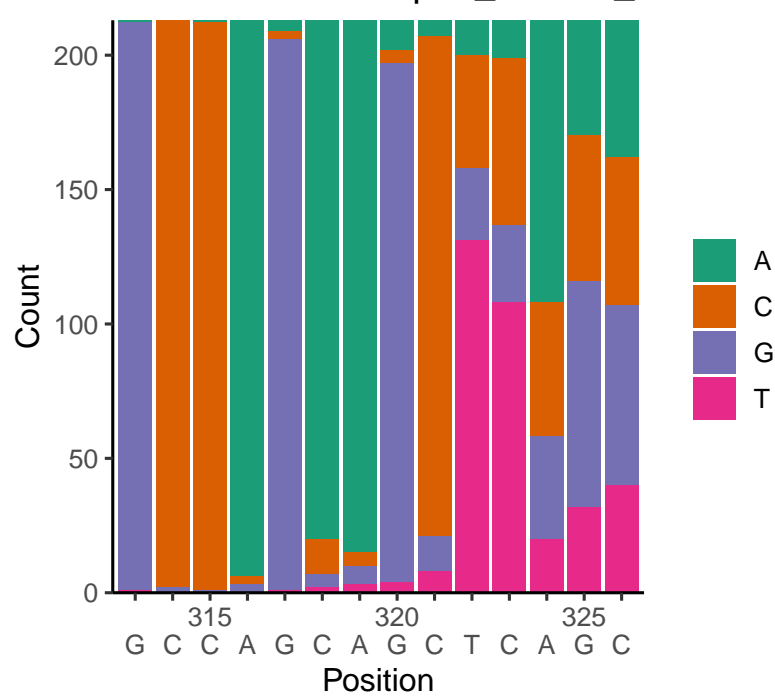


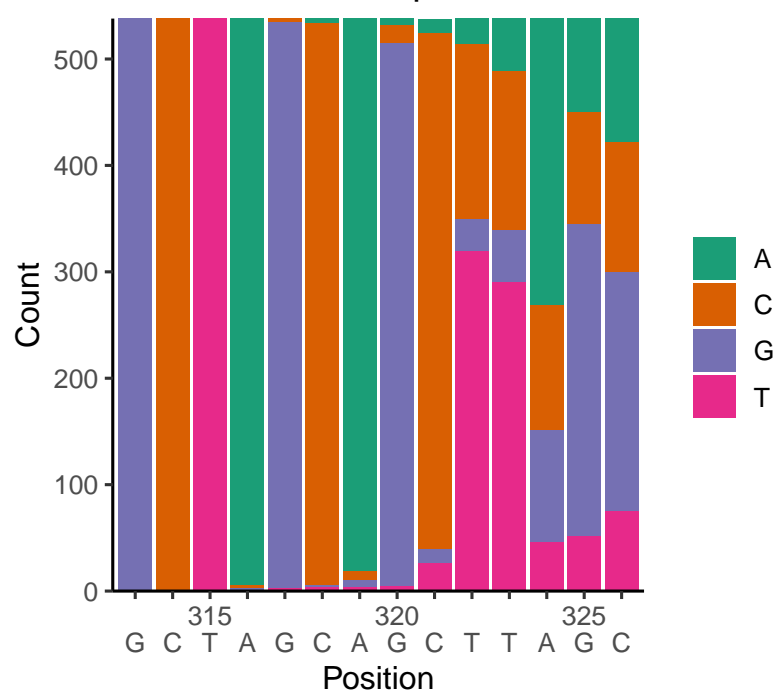
Gene TRBV21-1\*ap01\_T307C



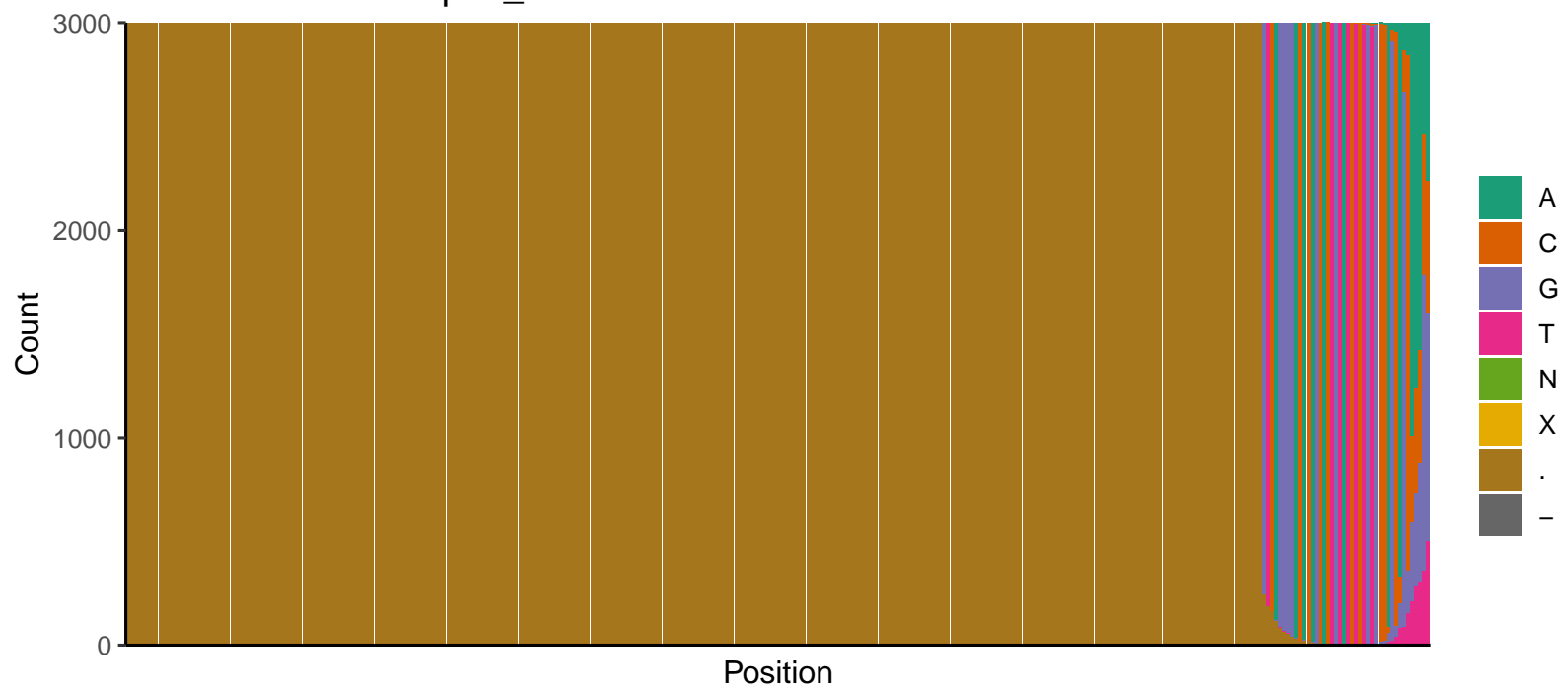
Gene TRBV7-1\*ap01\_G291C\_T296C



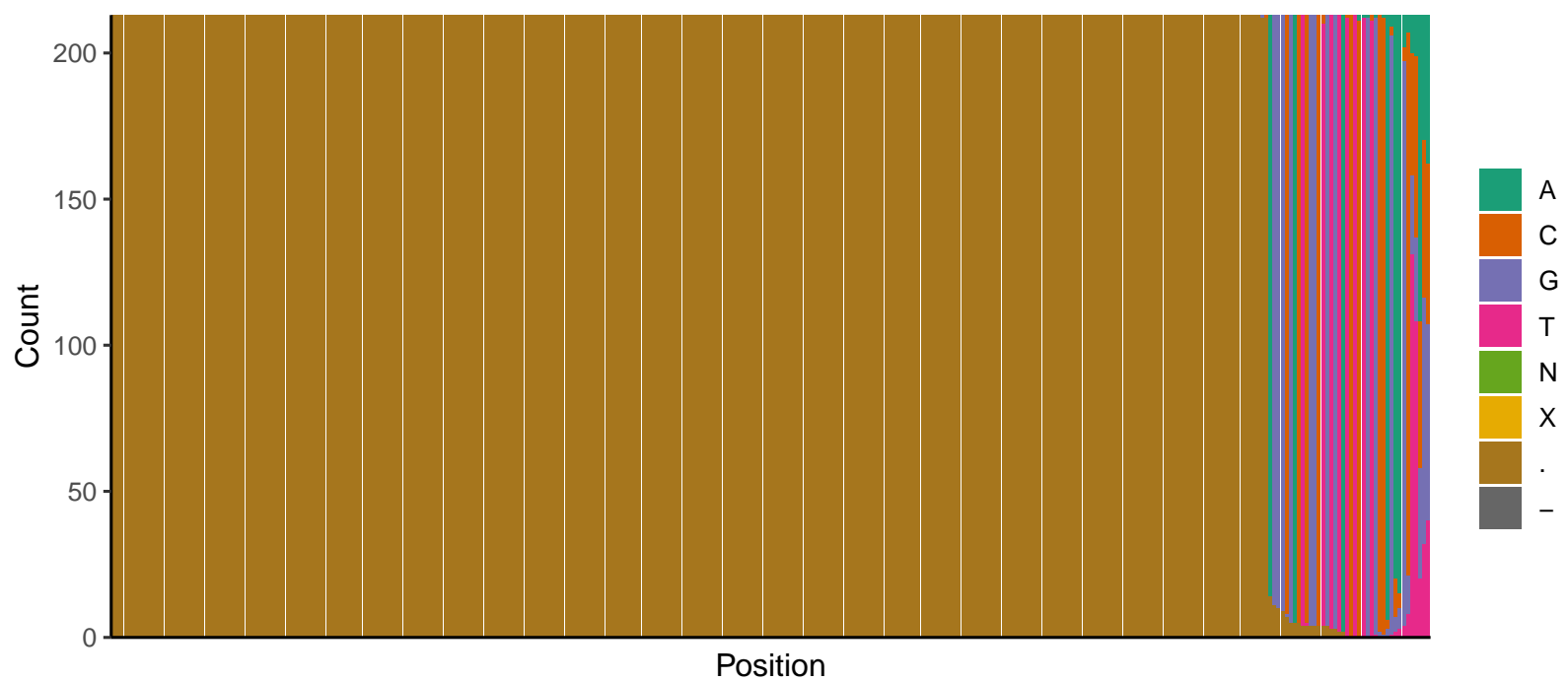
Gene TRBV7-7\*ap01\_C315T



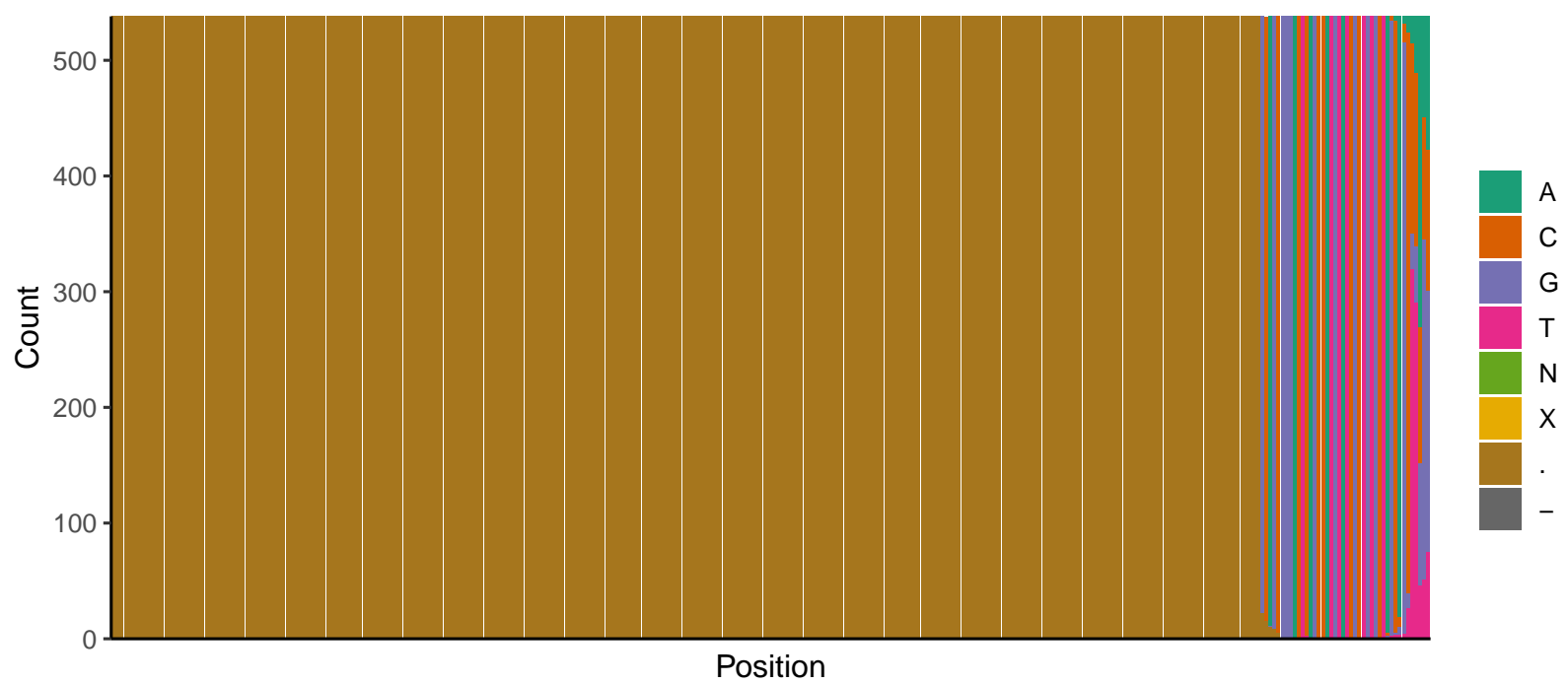
Gene TRBV21-1\*ap01\_T307C



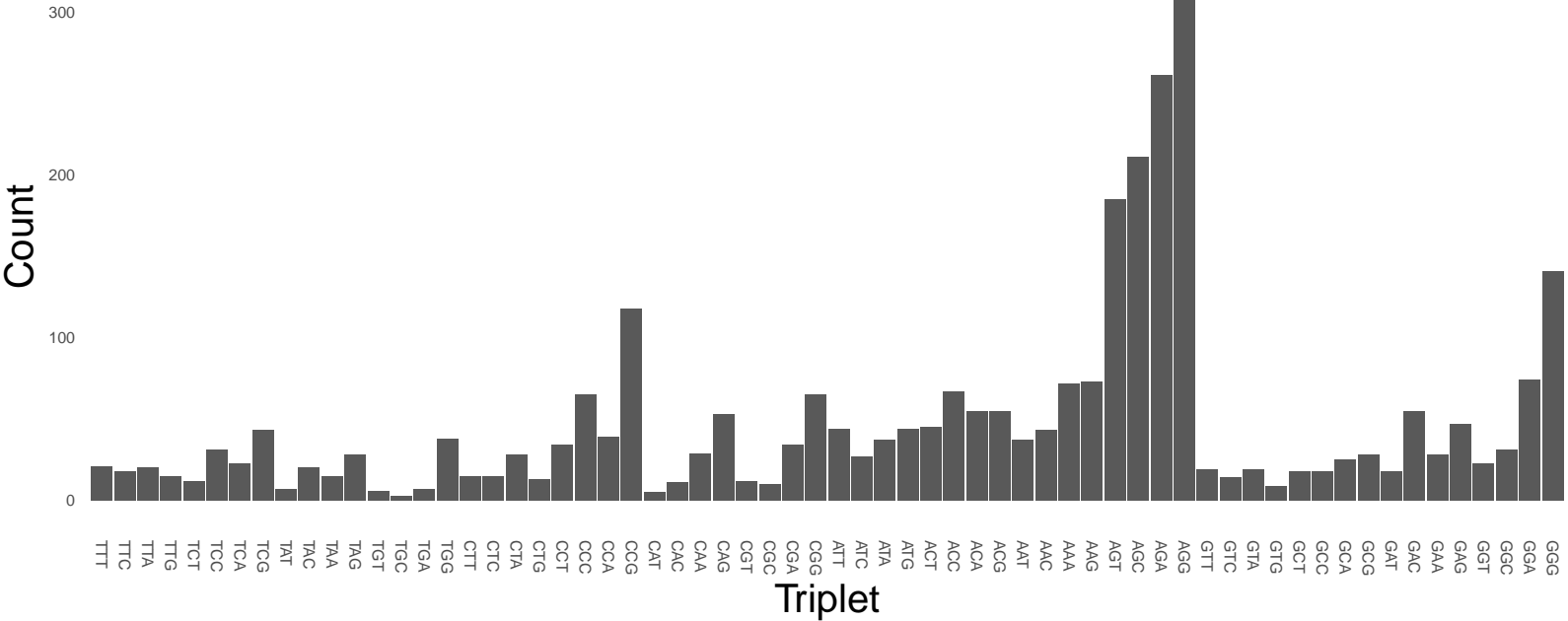
Gene TRBV7-1\*ap01\_G291C\_T296C



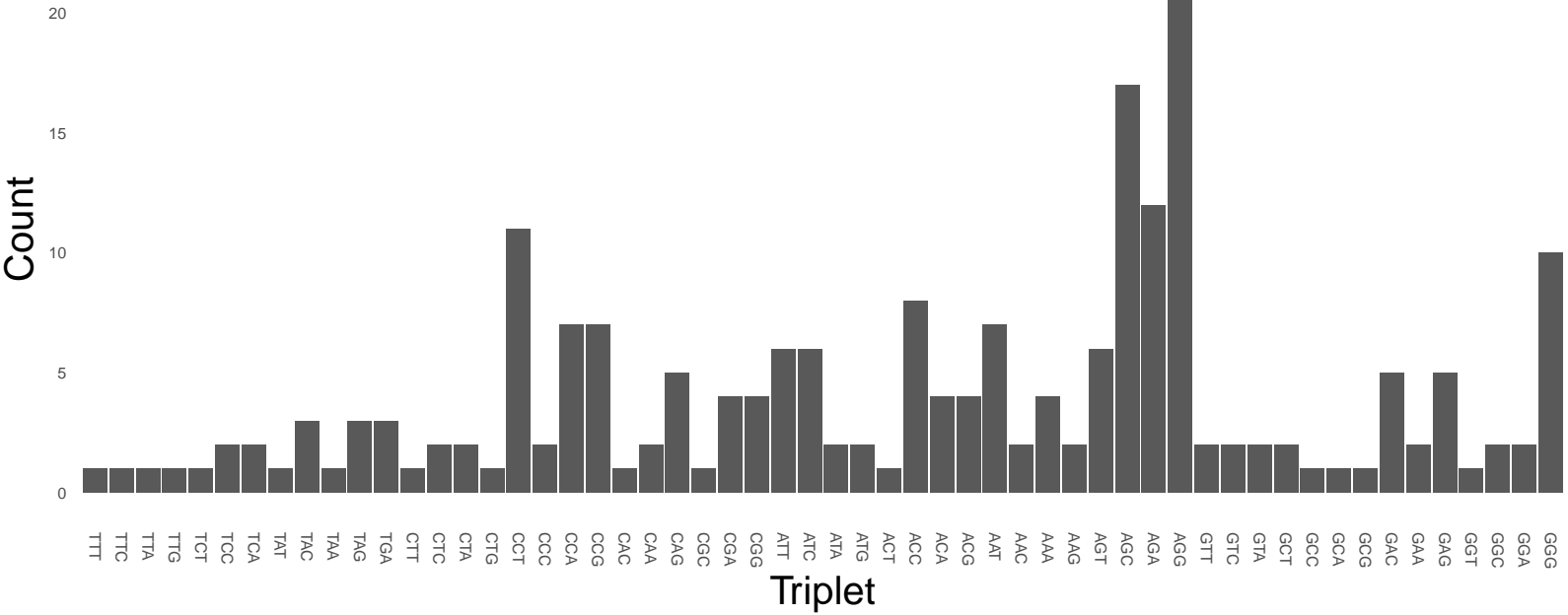
Gene TRBV7-7\*ap01\_C315T



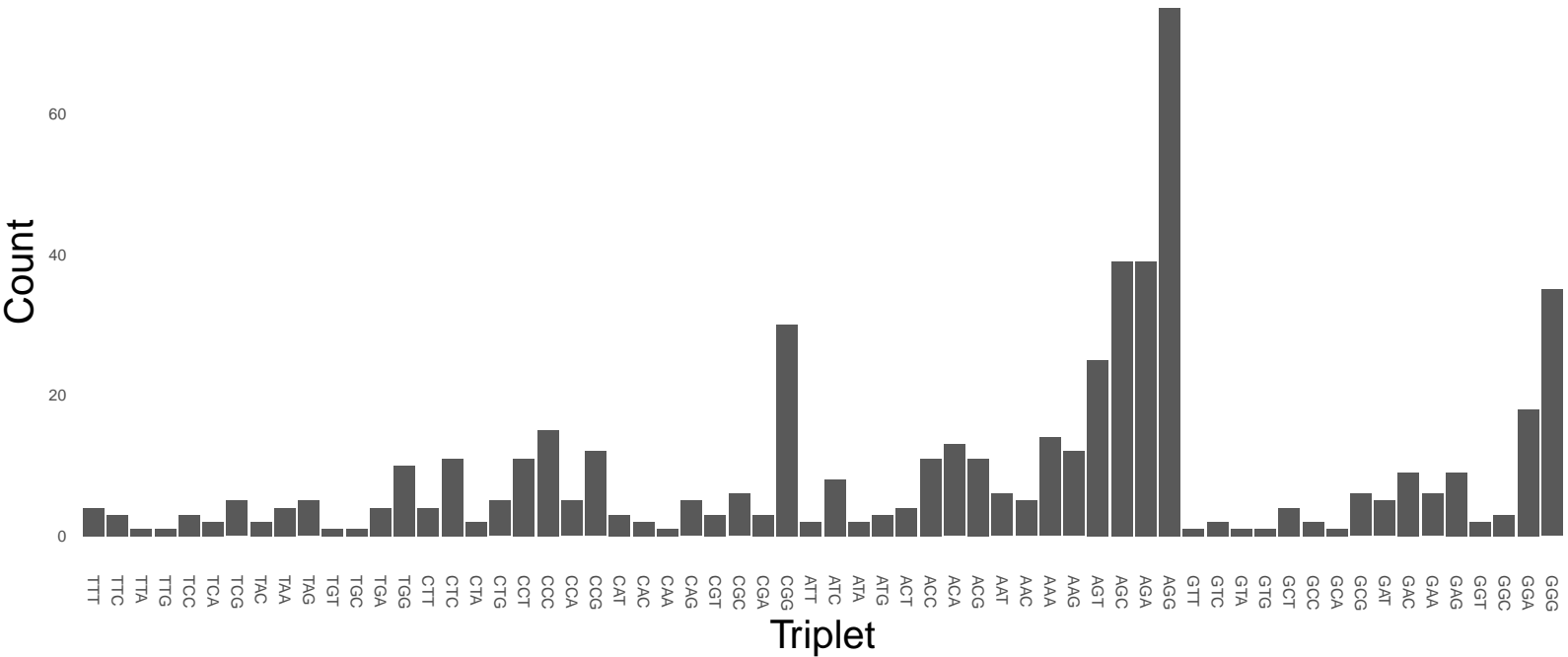
TRBV21-1\*ap01\_T307C- Final 3 nucleotides as a triplet



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

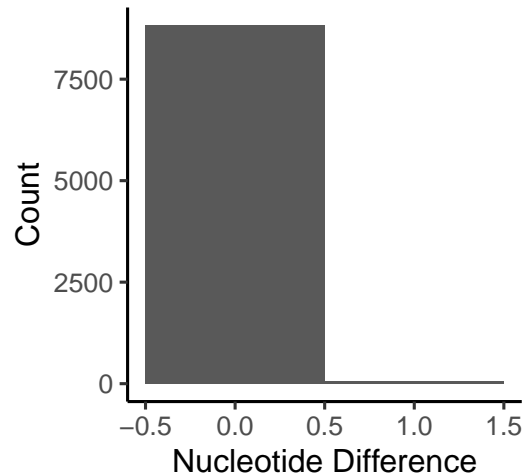


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



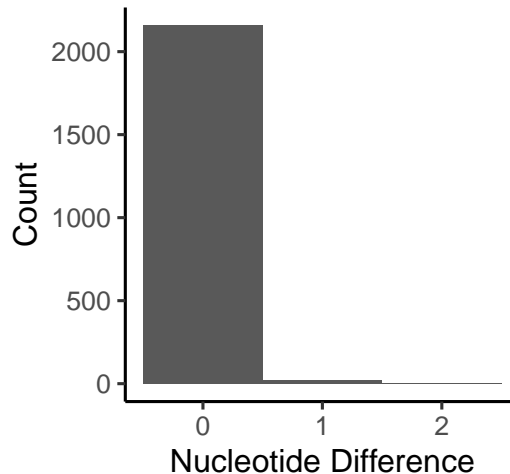
### TRBV20-1\*ap01

8897 sequences assigned  
8824 (99.2%) exact matches, in which:  
8750 unique CDR3  
13 unique J



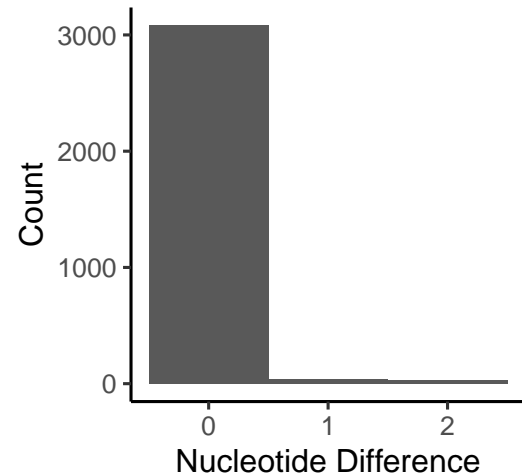
### TRBV10-2\*ap01

2182 sequences assigned  
2158 (98.9%) exact matches, in which:  
2129 unique CDR3  
13 unique J



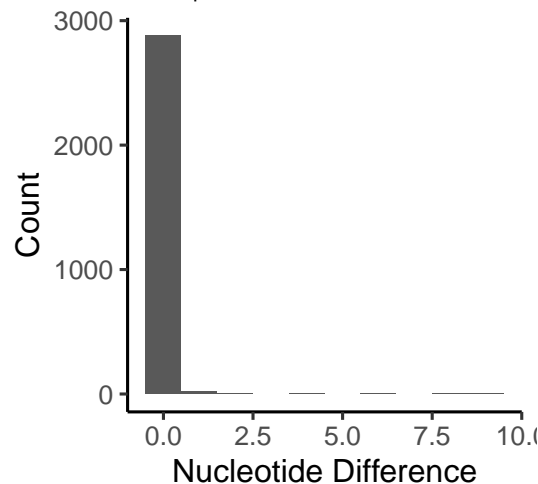
### TRBV13\*ap01

3151 sequences assigned  
3082 (97.8%) exact matches, in which:  
3013 unique CDR3  
13 unique J



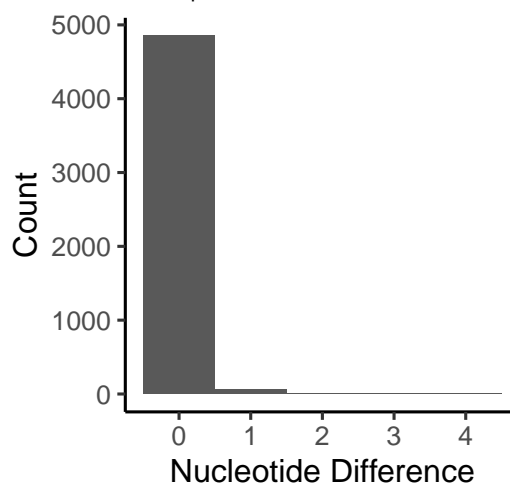
### TRBV10-1\*ap01

2909 sequences assigned  
2879 (99%) exact matches, in which:  
2822 unique CDR3  
13 unique J



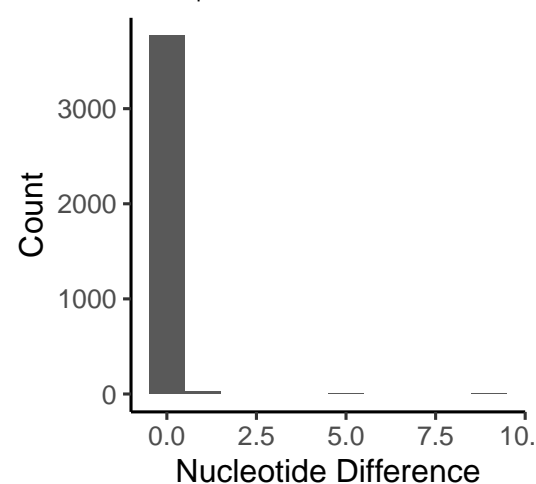
### TRBV10-3\*ap01

4918 sequences assigned  
4853 (98.7%) exact matches, in which:  
4785 unique CDR3  
13 unique J



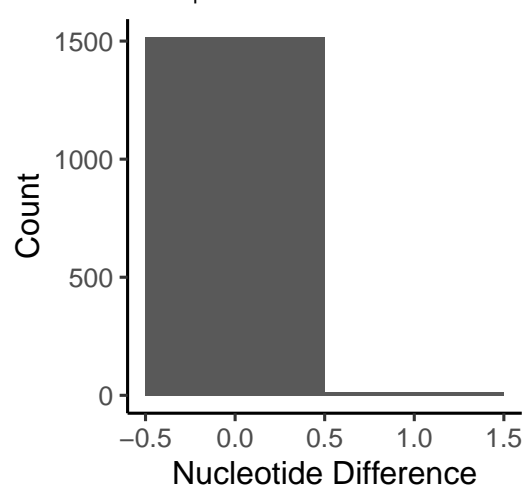
### TRBV14\*ap01

3791 sequences assigned  
3767 (99.4%) exact matches, in which:  
3717 unique CDR3  
13 unique J



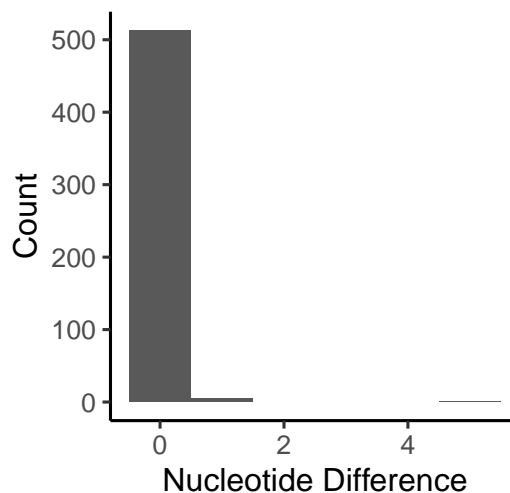
### TRBV20-1\*ap02

1531 sequences assigned  
1517 (99.1%) exact matches, in which:  
1502 unique CDR3  
13 unique J



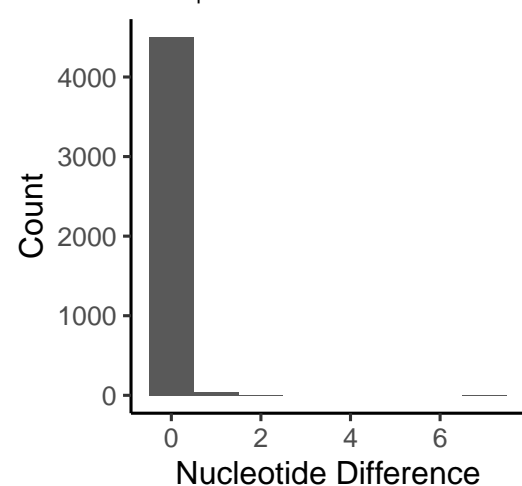
### TRBV1\*ap01

519 sequences assigned  
513 (98.8%) exact matches, in which:  
504 unique CDR3  
13 unique J



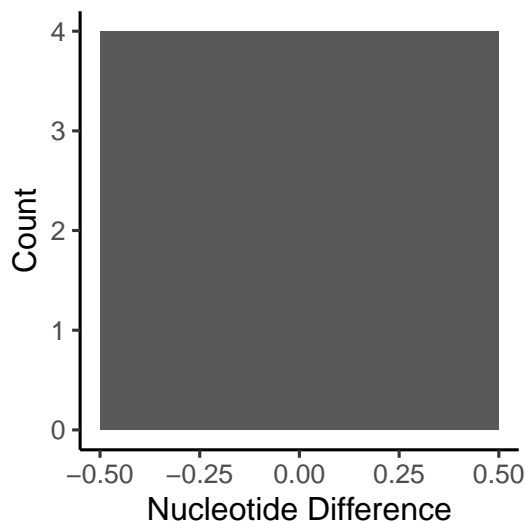
### TRBV15\*ap01

4550 sequences assigned  
4502 (98.9%) exact matches, in which:  
4426 unique CDR3  
13 unique J



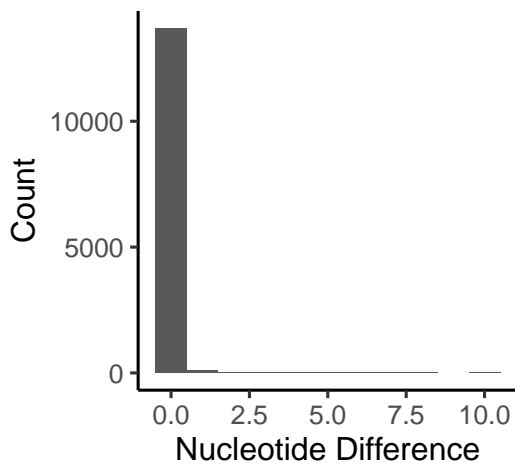
### TRBV16\*ap01

4 sequences assigned  
4 (100%) exact matches, in which:  
4 unique CDR3  
4 unique J



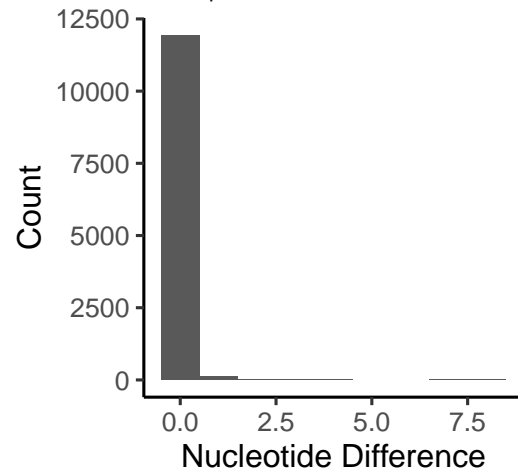
### TRBV19\*ap01

13835 sequences assigned  
13699 (99%) exact matches, in which:  
13589 unique CDR3  
13 unique J



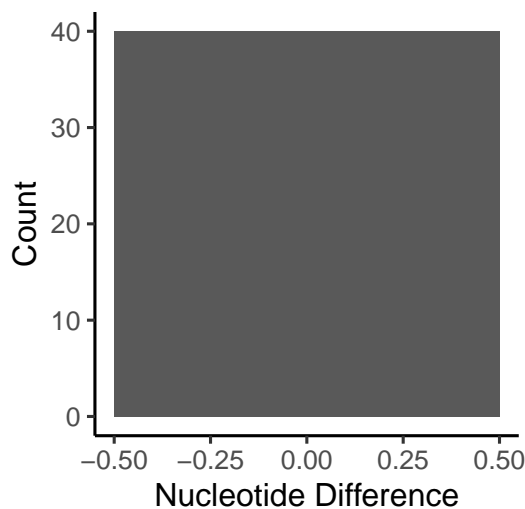
### TRBV27\*ap01

12086 sequences assigned  
11938 (98.8%) exact matches, in which:  
11705 unique CDR3  
13 unique J



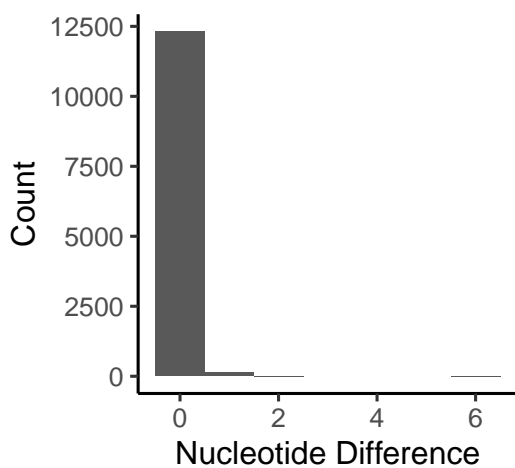
### TRBV17\*ap01

40 sequences assigned  
40 (100%) exact matches, in which:  
38 unique CDR3  
11 unique J



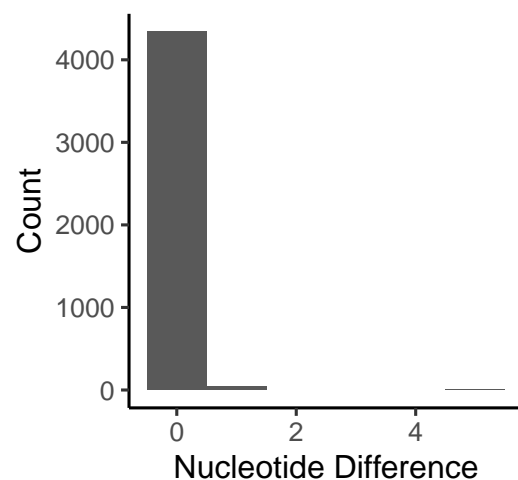
### TRBV2\*ap01

12468 sequences assigned  
12317 (98.8%) exact matches, in which:  
12101 unique CDR3  
13 unique J



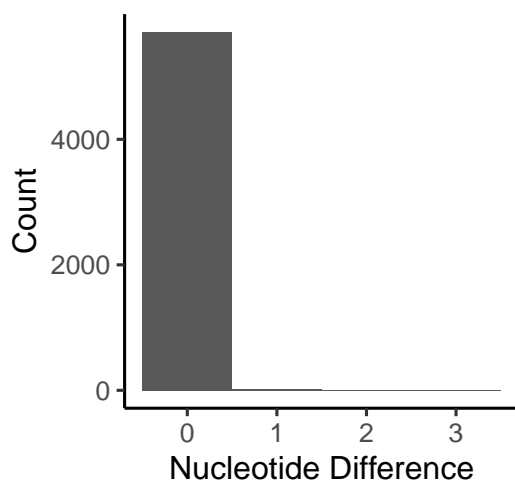
### TRBV28\*ap01

4385 sequences assigned  
4340 (99%) exact matches, in which:  
4271 unique CDR3  
13 unique J



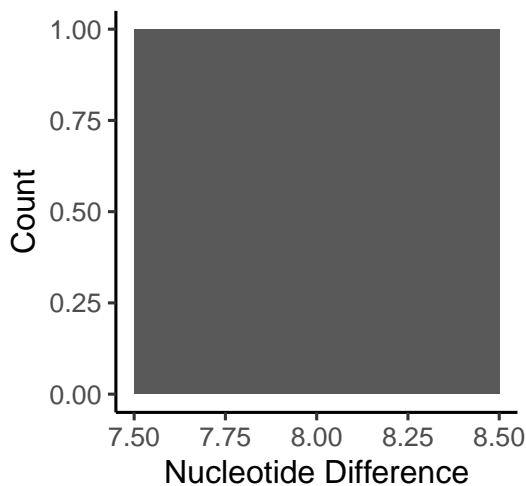
### TRBV18\*ap01

5733 sequences assigned  
5710 (99.6%) exact matches, in which:  
5658 unique CDR3  
13 unique J



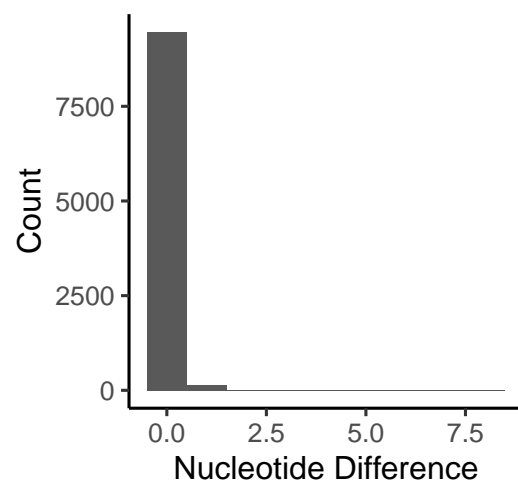
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



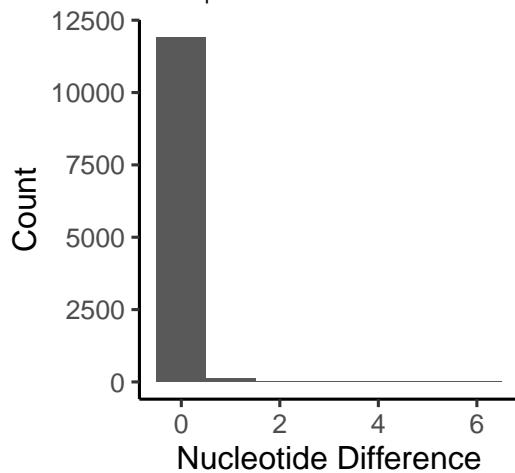
### TRBV30\*ap02

9617 sequences assigned  
9461 (98.4%) exact matches, in which:  
9351 unique CDR3  
13 unique J



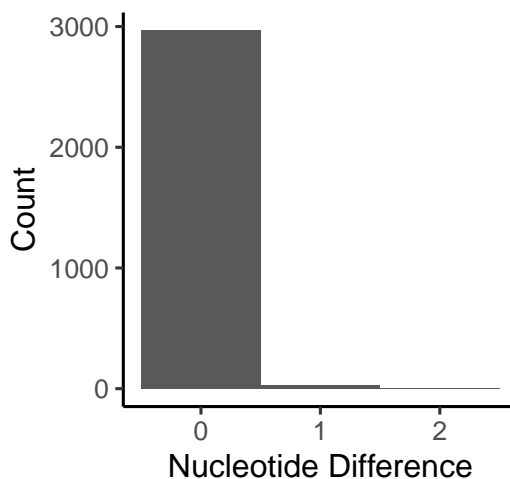
### TRBV9\*ap01

12043 sequences assigned  
11914 (98.9%) exact matches, in which:  
11764 unique CDR3  
13 unique J



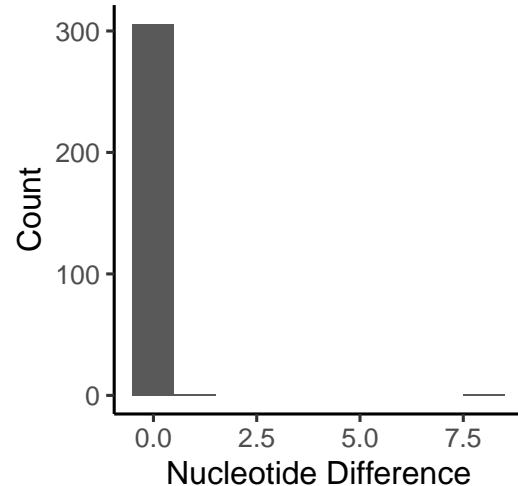
### TRBV21-1\*ap01\_T307C

3000 sequences assigned  
2968 (98.9%) exact matches, in which:  
2941 unique CDR3  
13 unique J



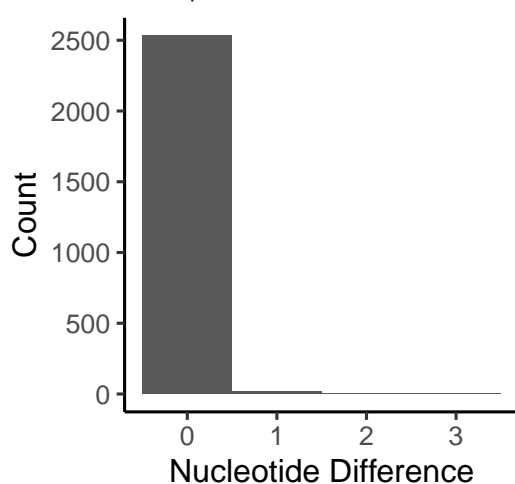
### TRBV12-1\*ap01

308 sequences assigned  
306 (99.4%) exact matches, in which:  
303 unique CDR3  
13 unique J



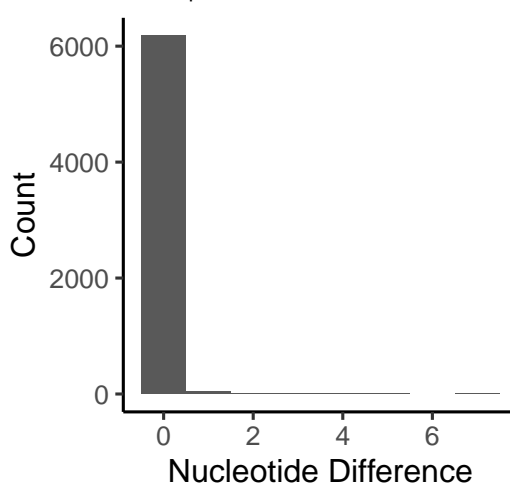
### TRBV21-1\*ap01

2558 sequences assigned  
2532 (99%) exact matches, in which:  
2503 unique CDR3  
13 unique J



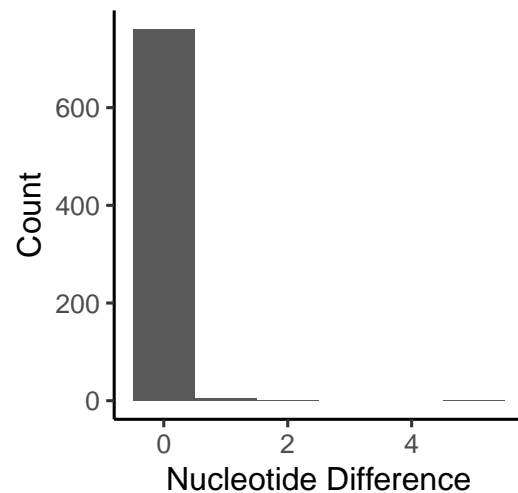
### TRBV11-2\*ap01

6224 sequences assigned  
6180 (99.3%) exact matches, in which:  
6122 unique CDR3  
13 unique J



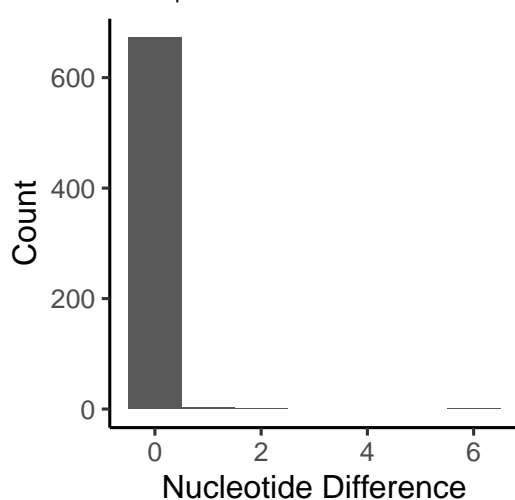
### TRBV12-2\*ap01

769 sequences assigned  
761 (99%) exact matches, in which:  
751 unique CDR3  
13 unique J



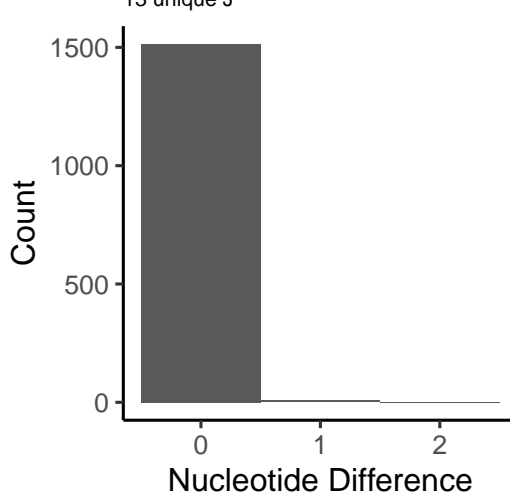
### TRBV11-1\*ap01

678 sequences assigned  
673 (99.3%) exact matches, in which:  
666 unique CDR3  
13 unique J



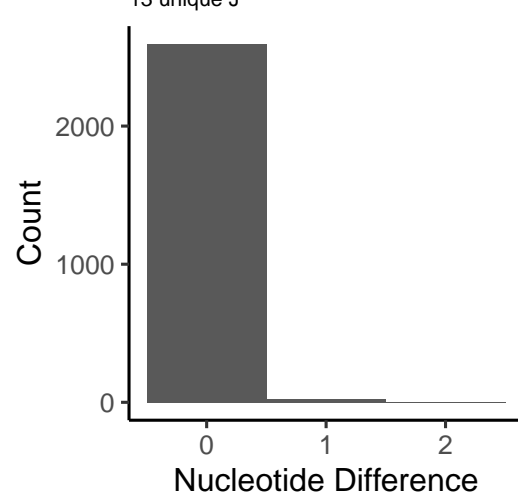
### TRBV11-3\*ap01

1523 sequences assigned  
1514 (99.4%) exact matches, in which:  
1508 unique CDR3  
13 unique J



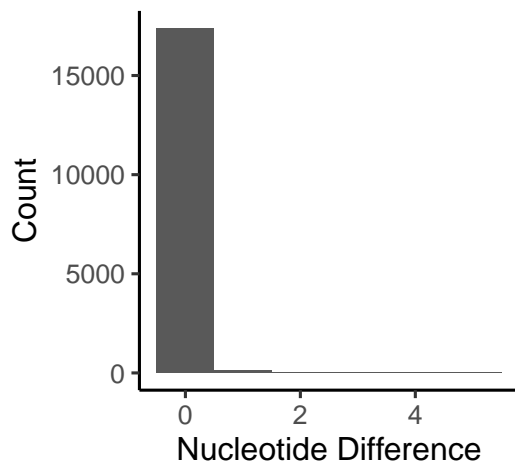
### TRBV12-5\*ap01

2618 sequences assigned  
2594 (99.1%) exact matches, in which:  
2547 unique CDR3  
13 unique J



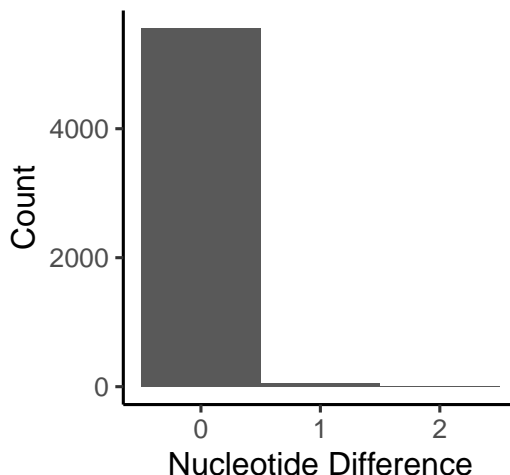
### TRBV12–34\*ap01

17551 sequences assigned  
17389 (99.1%) exact matches, in which:  
17141 unique CDR3  
13 unique J



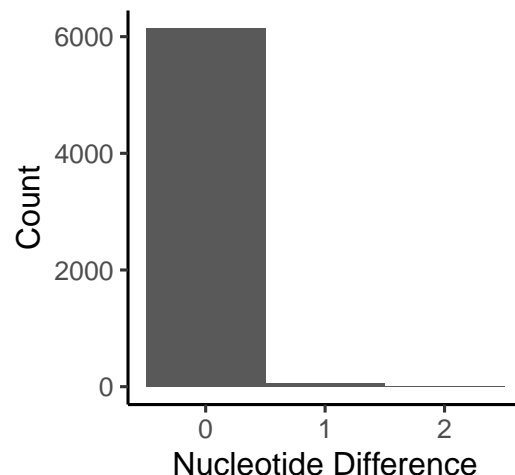
### TRBV4–1\*ap01

5613 sequences assigned  
5555 (99%) exact matches, in which:  
5454 unique CDR3  
13 unique J



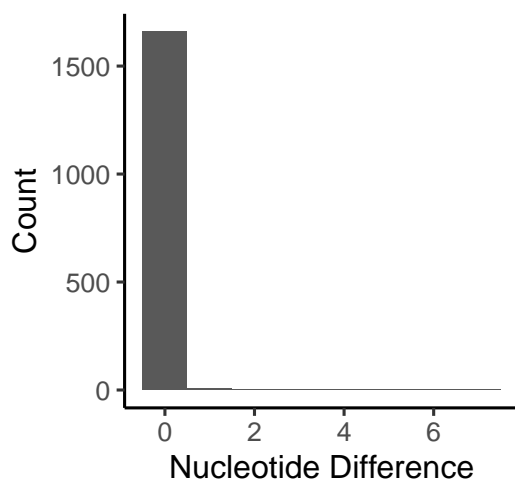
### TRBV4–3\*ap01

6213 sequences assigned  
6141 (98.8%) exact matches, in which:  
6055 unique CDR3  
13 unique J



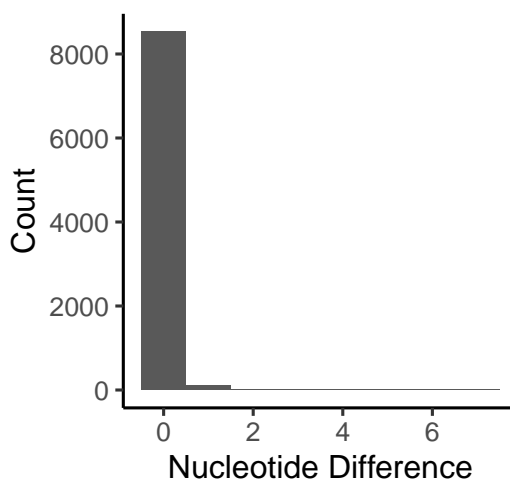
### TRBV23–1\*ap01

1679 sequences assigned  
1659 (98.8%) exact matches, in which:  
1641 unique CDR3  
13 unique J



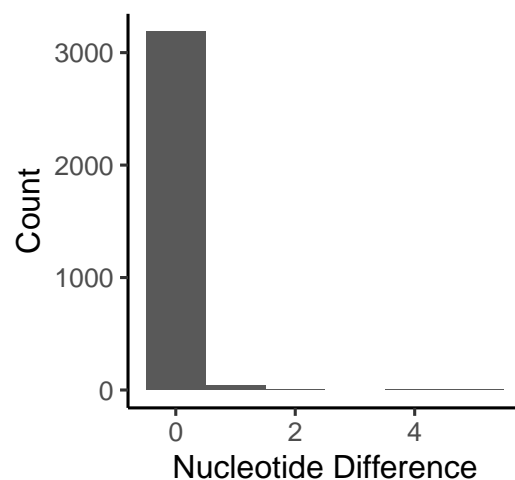
### TRBV24–1\*ap01

8664 sequences assigned  
8530 (98.5%) exact matches, in which:  
8419 unique CDR3  
13 unique J



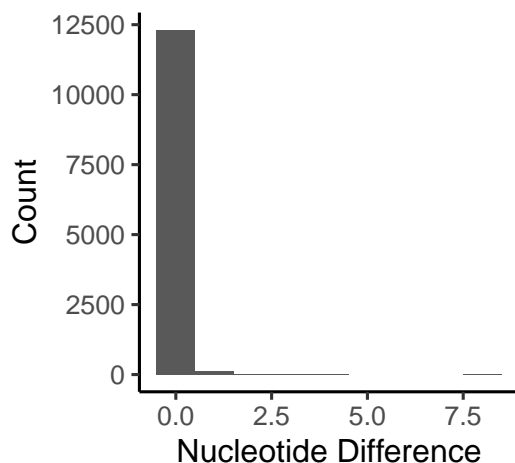
### TRBV25–1\*ap01

3235 sequences assigned  
3186 (98.5%) exact matches, in which:  
3139 unique CDR3  
13 unique J



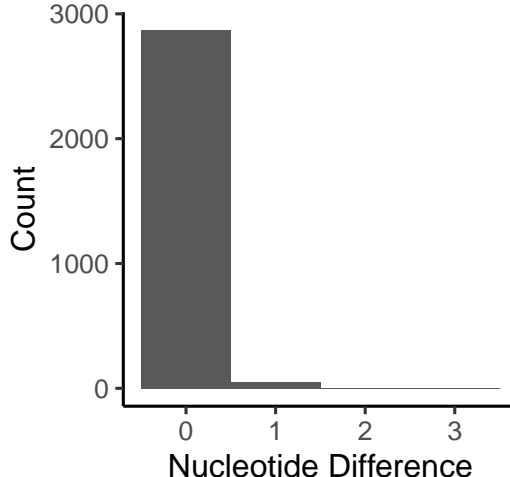
### TRBV3–12\*ap01

12458 sequences assigned  
12317 (98.9%) exact matches, in which:  
12117 unique CDR3  
13 unique J



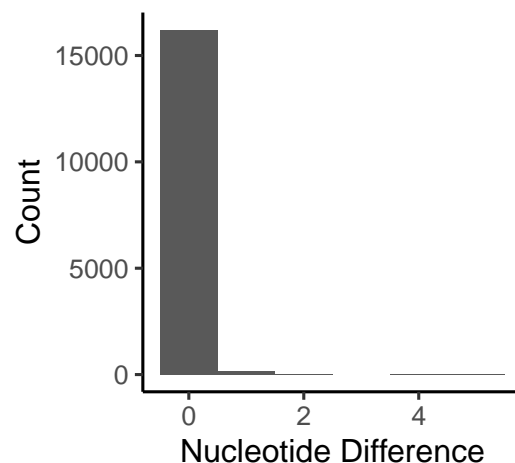
### TRBV4–2\*ap01

2923 sequences assigned  
2870 (98.2%) exact matches, in which:  
2839 unique CDR3  
13 unique J



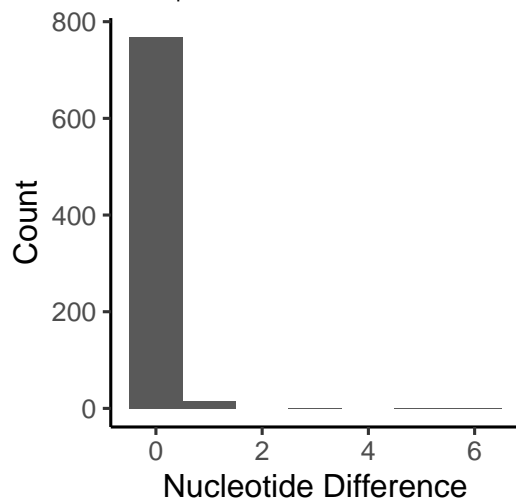
### TRBV5–1\*ap01

16388 sequences assigned  
16209 (98.9%) exact matches, in which:  
15894 unique CDR3  
13 unique J



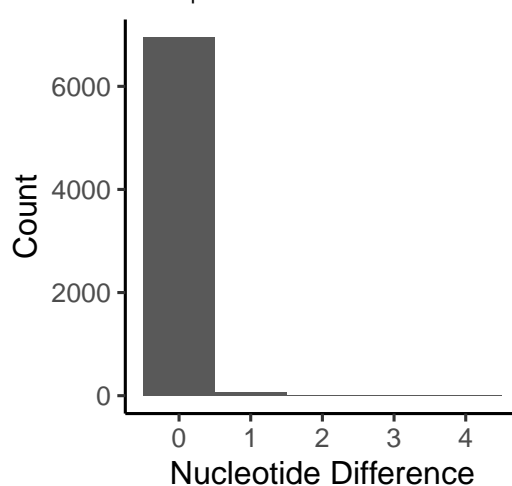
### TRBV5-3\*ap01

787 sequences assigned  
769 (97.7%) exact matches, in which:  
762 unique CDR3  
13 unique J



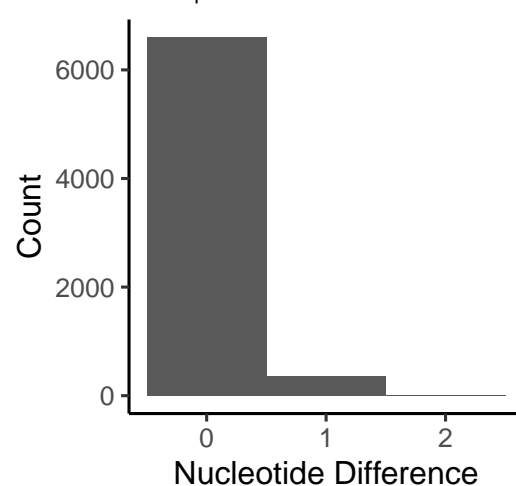
### TRBV5-6\*ap01

7020 sequences assigned  
6949 (99%) exact matches, in which:  
6800 unique CDR3  
13 unique J



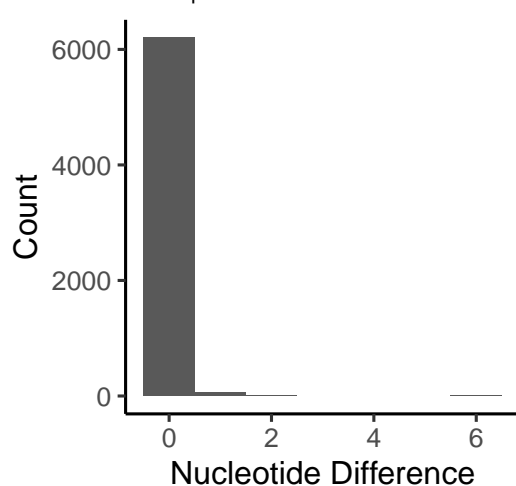
### TRBV6-1\*ap01

6954 sequences assigned  
6598 (94.9%) exact matches, in which:  
6479 unique CDR3  
13 unique J



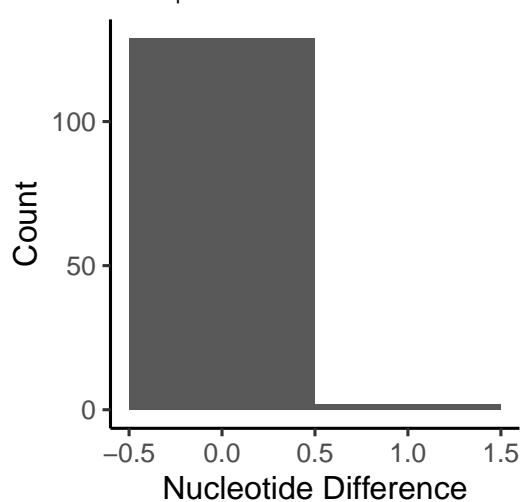
### TRBV5-4\*ap01

6260 sequences assigned  
6202 (99.1%) exact matches, in which:  
6094 unique CDR3  
13 unique J



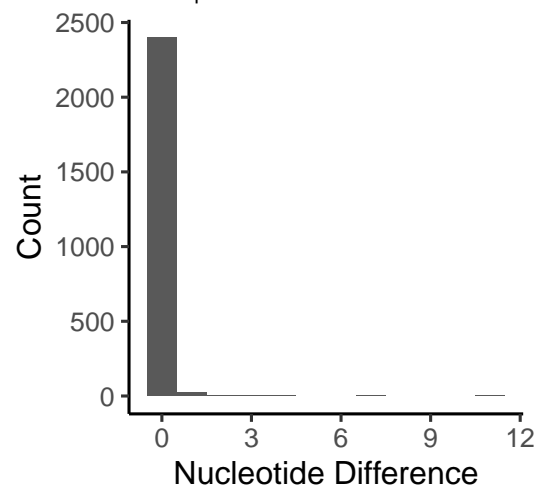
### TRBV5-7\*ap01

131 sequences assigned  
129 (98.5%) exact matches, in which:  
127 unique CDR3  
13 unique J



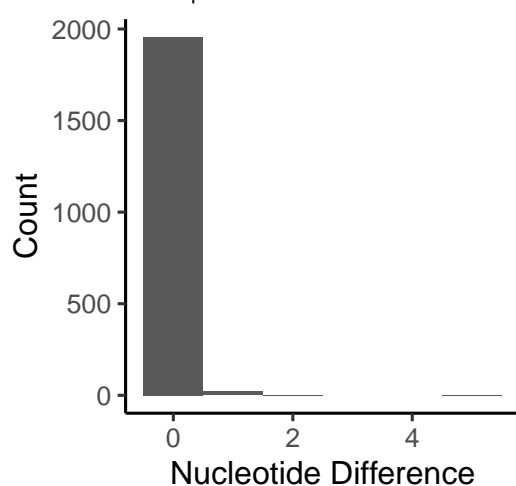
### TRBV6-4\*ap01

2434 sequences assigned  
2398 (98.5%) exact matches, in which:  
2357 unique CDR3  
13 unique J



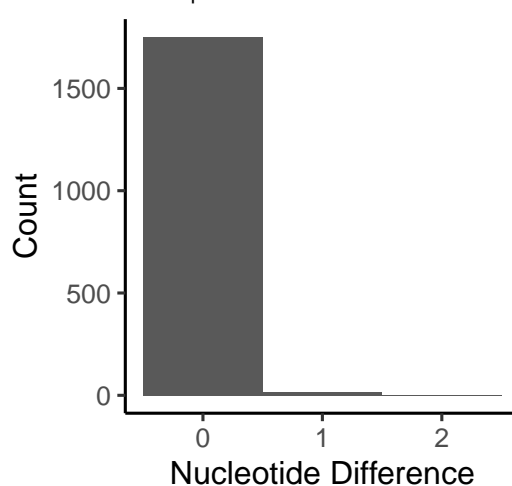
### TRBV5-5\*ap01

1979 sequences assigned  
1956 (98.8%) exact matches, in which:  
1947 unique CDR3  
13 unique J



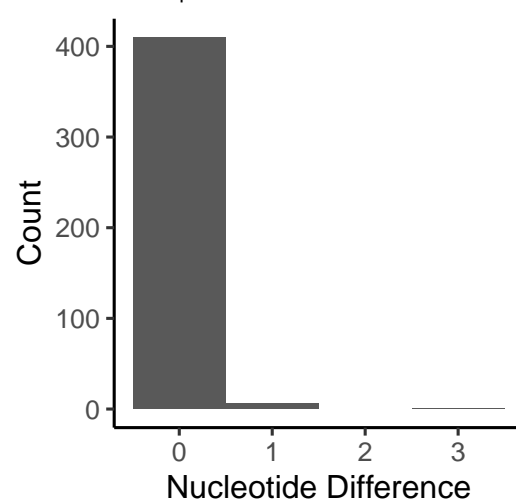
### TRBV5-8\*ap01

1769 sequences assigned  
1751 (99%) exact matches, in which:  
1735 unique CDR3  
13 unique J



### TRBV6-7\*ap01

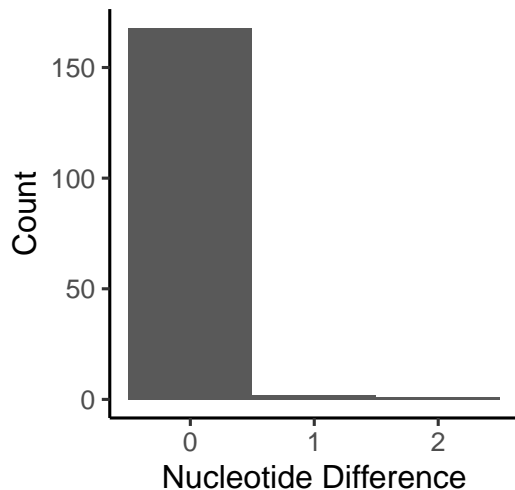
417 sequences assigned  
410 (98.3%) exact matches, in which:  
397 unique CDR3  
13 unique J





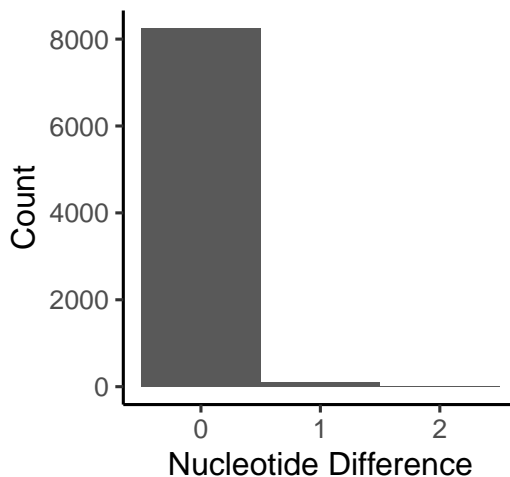
### TRBV6-8\*ap01

171 sequences assigned  
168 (98.2%) exact matches, in which:  
165 unique CDR3  
13 unique J



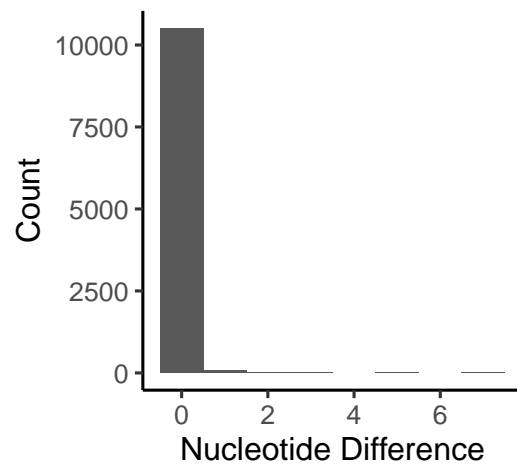
### TRBV6-56\*ap01

8347 sequences assigned  
8246 (98.8%) exact matches, in which:  
8091 unique CDR3  
13 unique J



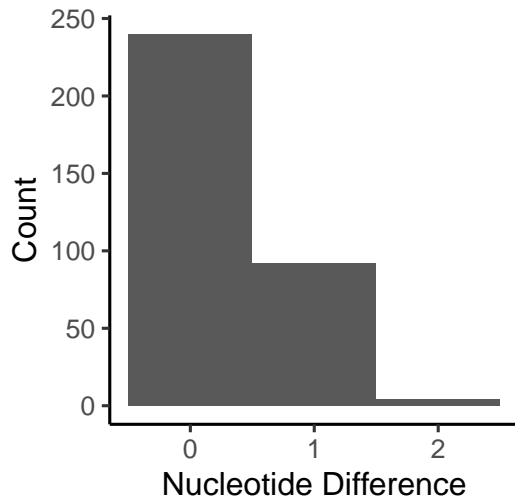
### TRBV7-2\*ap01

10603 sequences assigned  
10513 (99.2%) exact matches, in which:  
10372 unique CDR3  
13 unique J



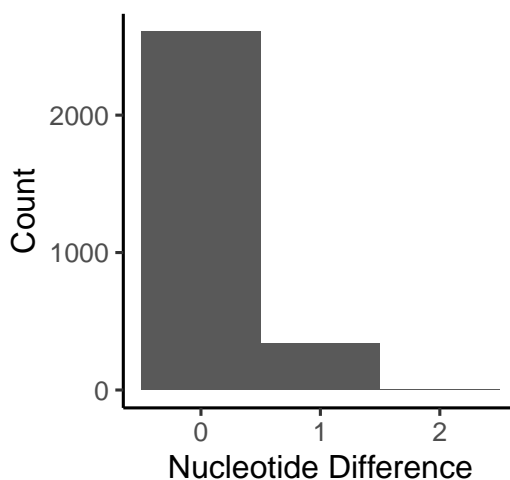
### TRBV6-9\*ap01

336 sequences assigned  
240 (71.4%) exact matches, in which:  
236 unique CDR3  
13 unique J



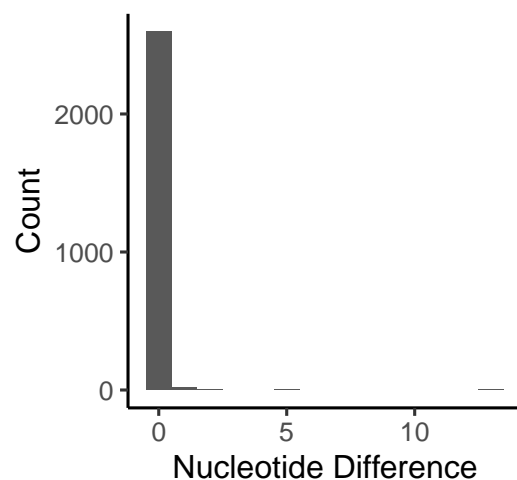
### TRBV6-56\*ap02

2953 sequences assigned  
2607 (88.3%) exact matches, in which:  
2553 unique CDR3  
13 unique J



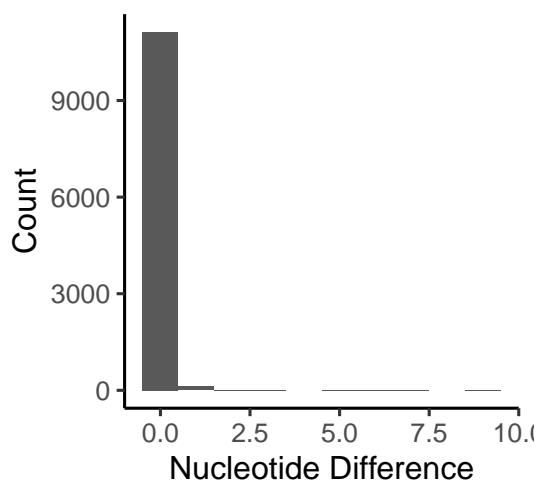
### TRBV7-3\*ap01

2621 sequences assigned  
2596 (99%) exact matches, in which:  
2563 unique CDR3  
13 unique J



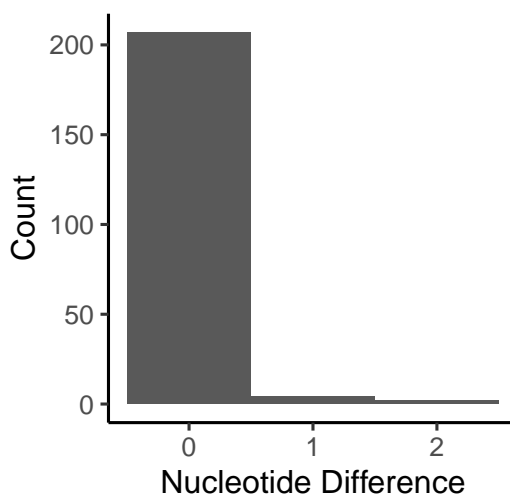
### TRBV6-23\*ap01

11260 sequences assigned  
11126 (98.8%) exact matches, in which:  
10931 unique CDR3  
13 unique J



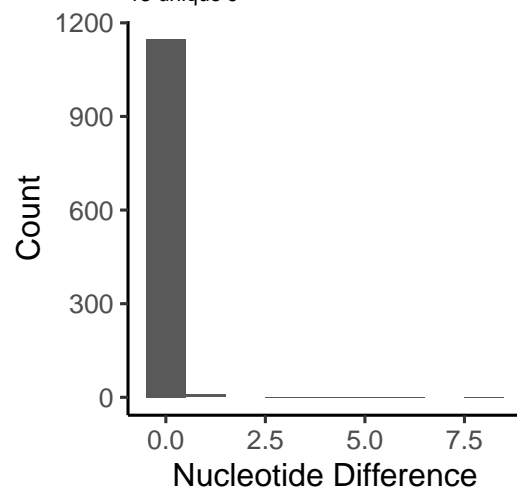
### TRBV7-1\*ap01\_G291C\_

213 sequences assigned  
207 (97.2%) exact matches, in which:  
206 unique CDR3  
13 unique J



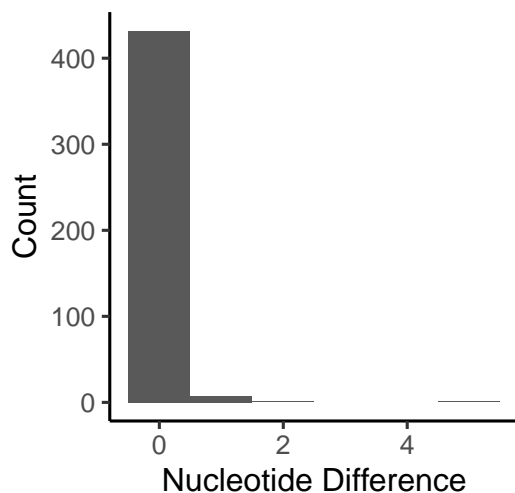
### TRBV7-3\*ap02

1163 sequences assigned  
1148 (98.7%) exact matches, in which:  
1134 unique CDR3  
13 unique J



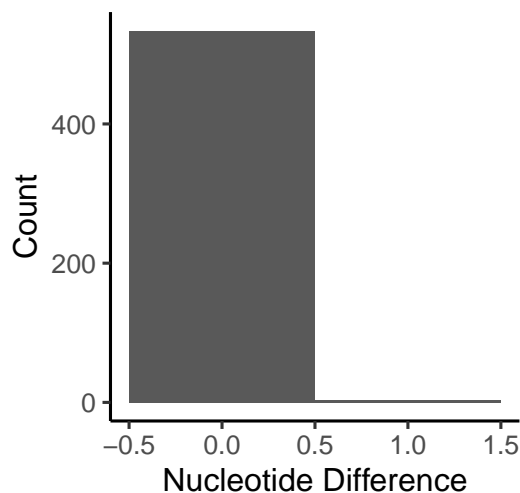
### TRBV7-4\*ap01

441 sequences assigned  
432 (98%) exact matches, in which:  
425 unique CDR3  
13 unique J



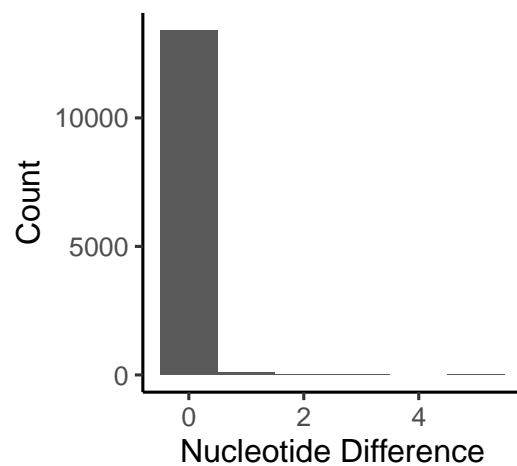
### TRBV7-7\*ap01\_C315T

538 sequences assigned  
534 (99.3%) exact matches, in which:  
527 unique CDR3  
13 unique J



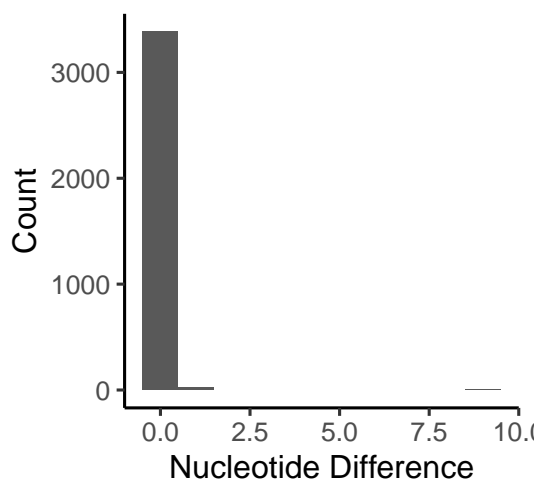
### TRBV7-9\*ap01

13524 sequences assigned  
13413 (99.2%) exact matches, in which:  
13266 unique CDR3  
13 unique J



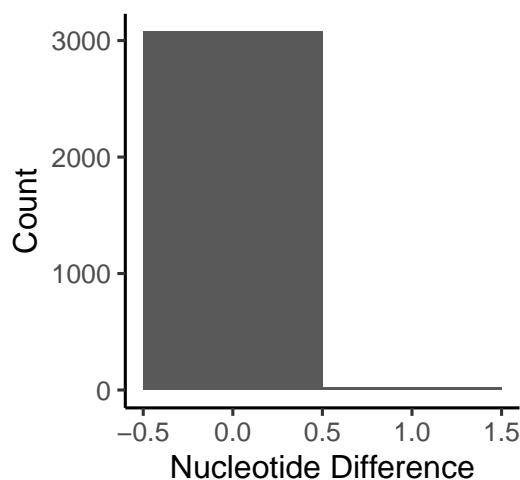
### TRBV7-6\*ap01

3408 sequences assigned  
3384 (99.3%) exact matches, in which:  
3324 unique CDR3  
13 unique J



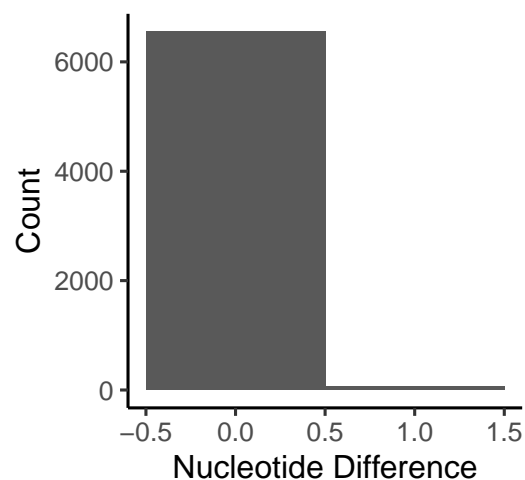
### TRBV7-8\*ap01

3101 sequences assigned  
3076 (99.2%) exact matches, in which:  
3013 unique CDR3  
13 unique J



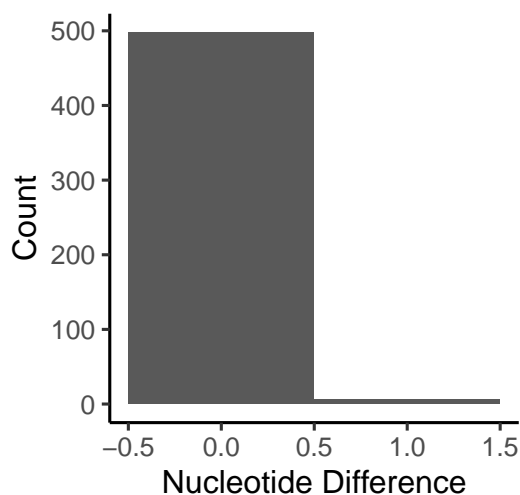
### TRBV29-1\*ap01

6617 sequences assigned  
6551 (99%) exact matches, in which:  
6448 unique CDR3  
13 unique J



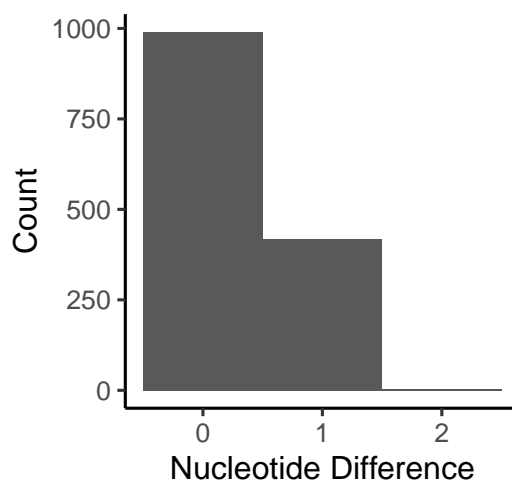
### TRBV7-7\*ap01

504 sequences assigned  
498 (98.8%) exact matches, in which:  
490 unique CDR3  
13 unique J



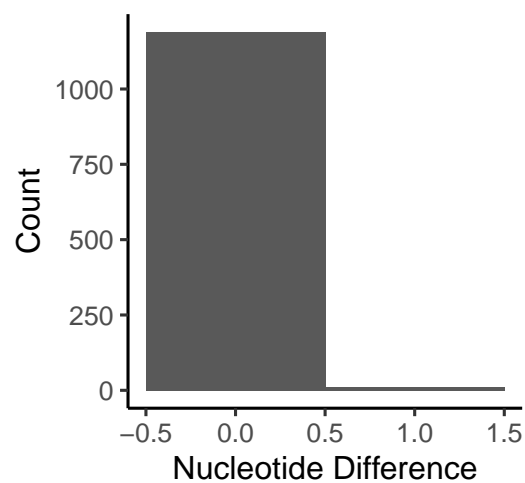
### TRBV7-8\*ap03

1411 sequences assigned  
990 (70.2%) exact matches, in which:  
976 unique CDR3  
13 unique J

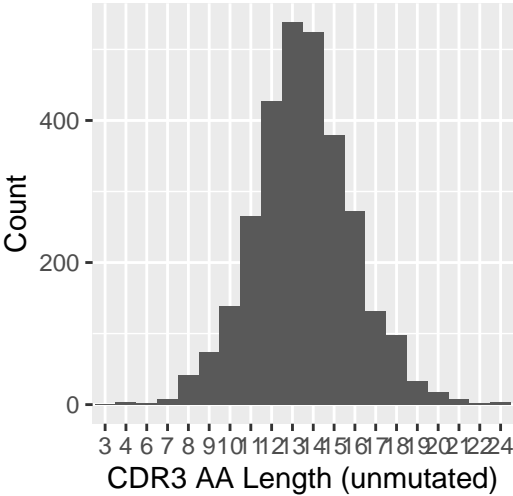


### TRBV29-1\*ap02

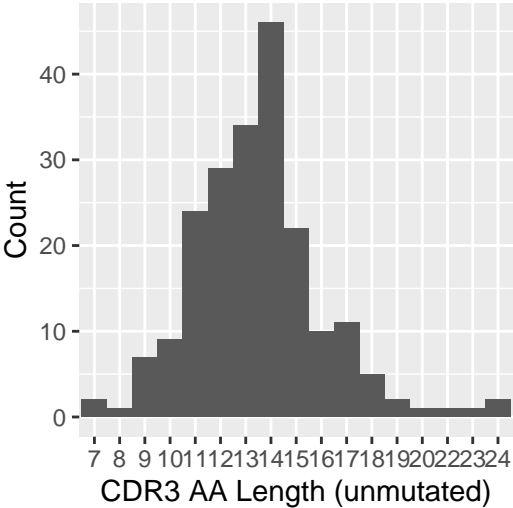
1201 sequences assigned  
1189 (99%) exact matches, in which:  
1172 unique CDR3  
13 unique J



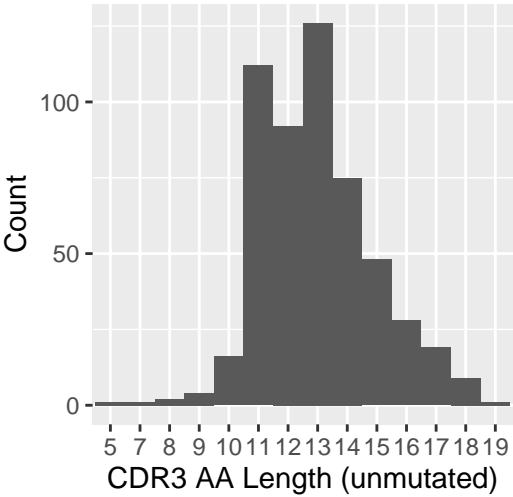
TRBV21-1\*ap01\_T307C



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]