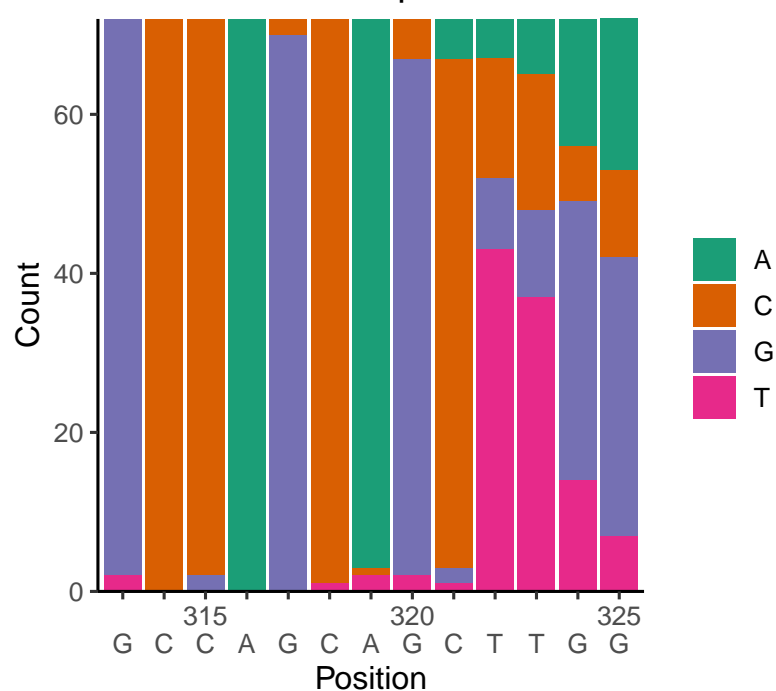
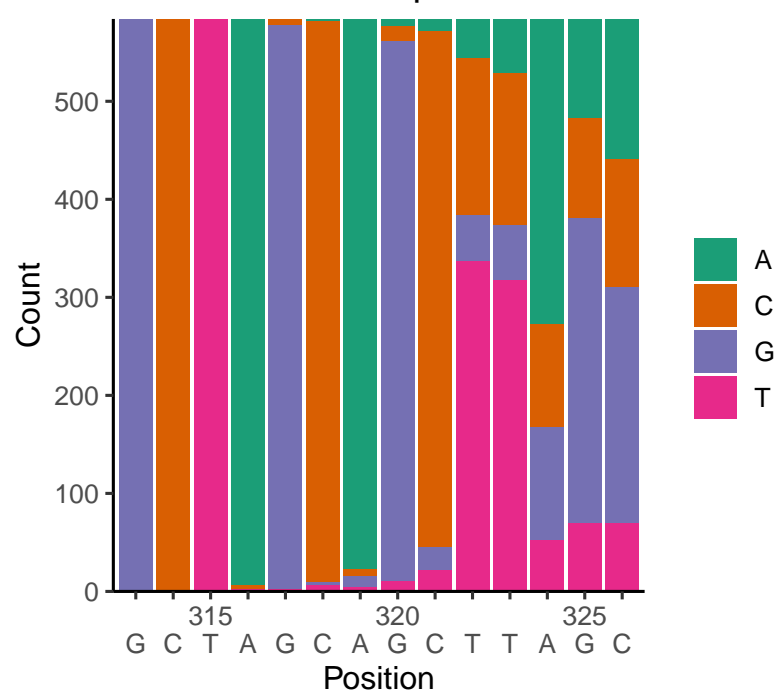


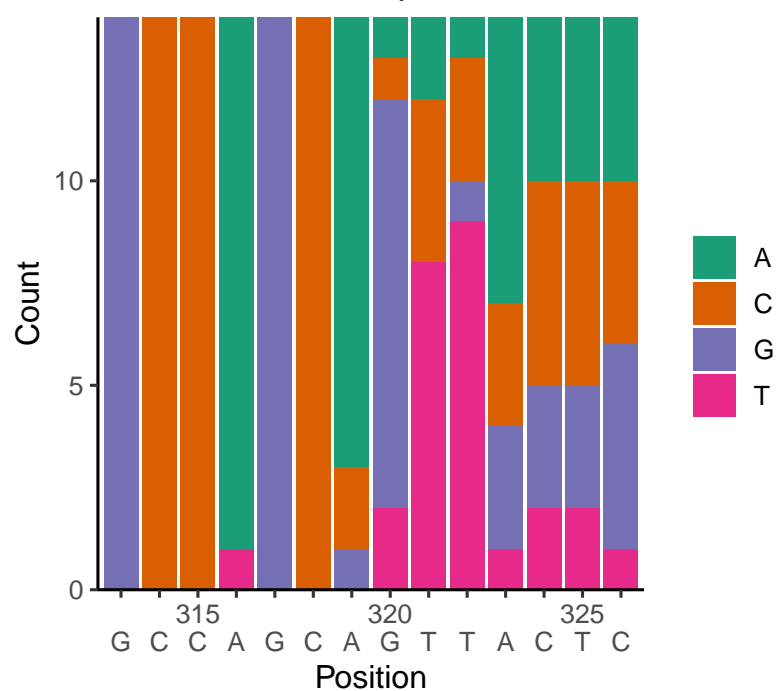
Gene TRBV5-7\*ap01\_G290A



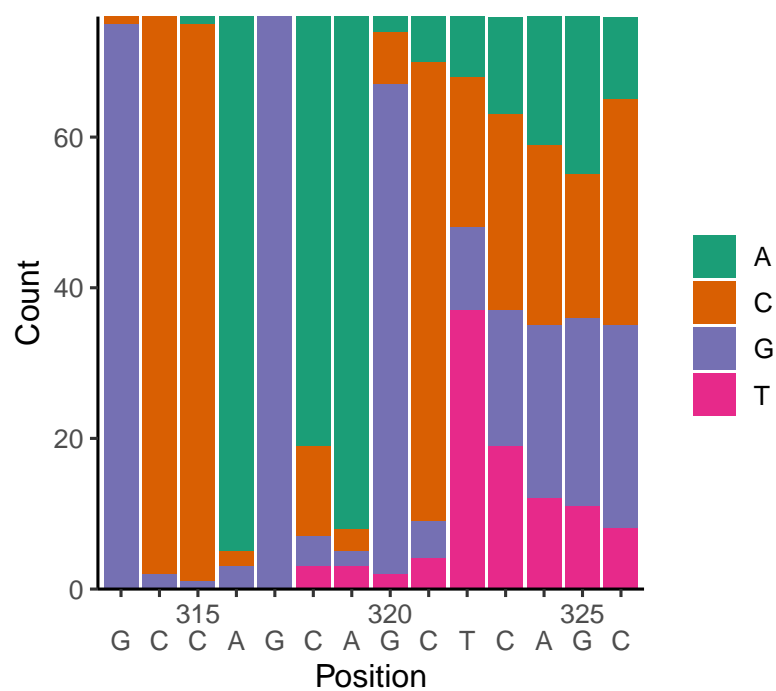
Gene TRBV7-7\*ap01\_C315T



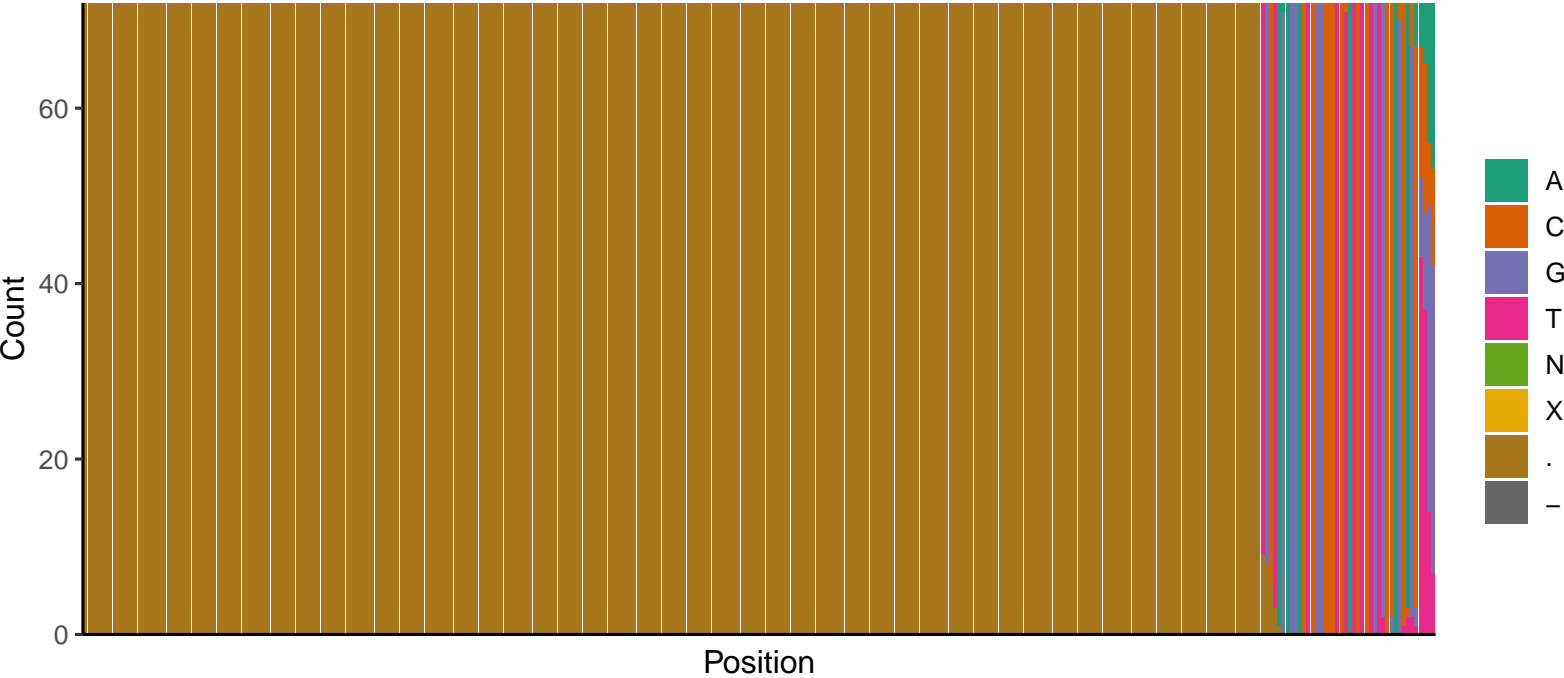
Gene TRBV6-8\*ap01\_A293G



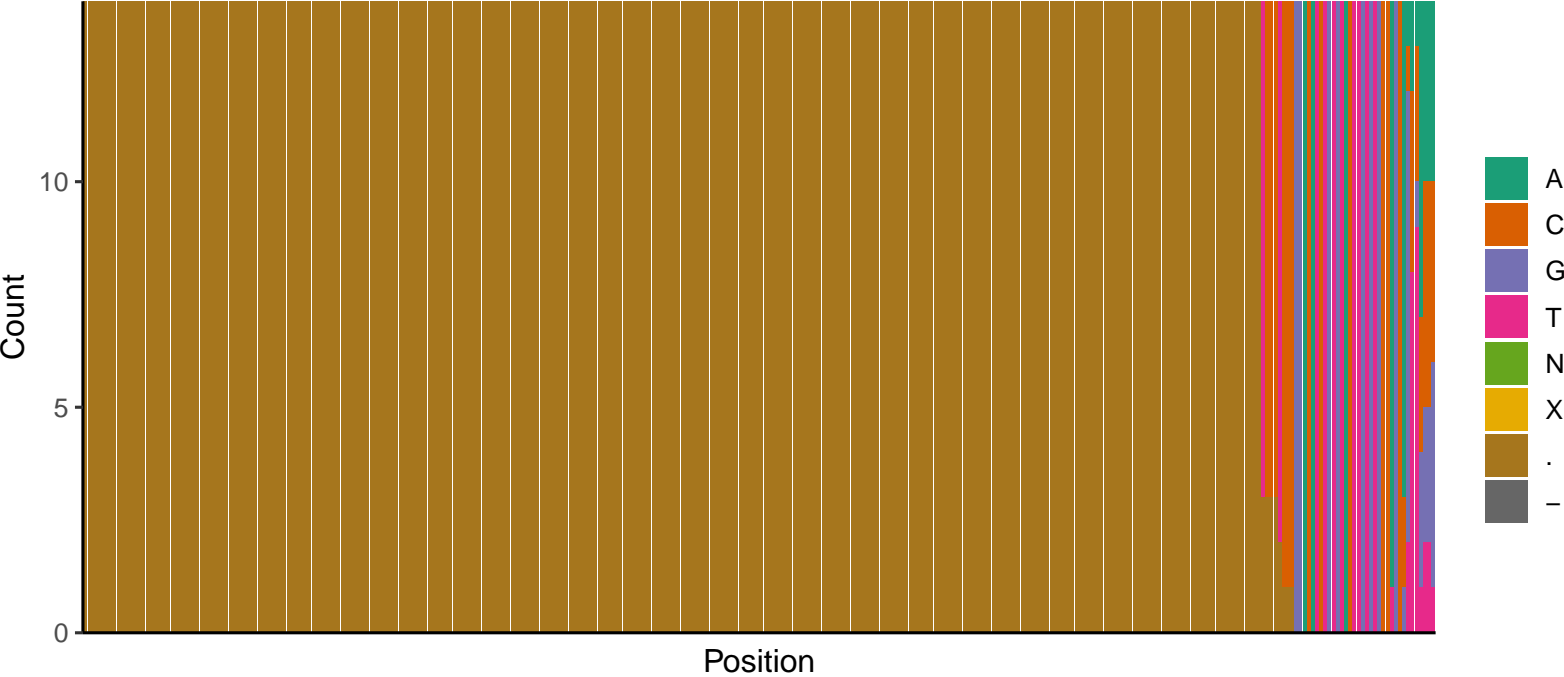
Gene TRBV7-1\*ap01\_T296C



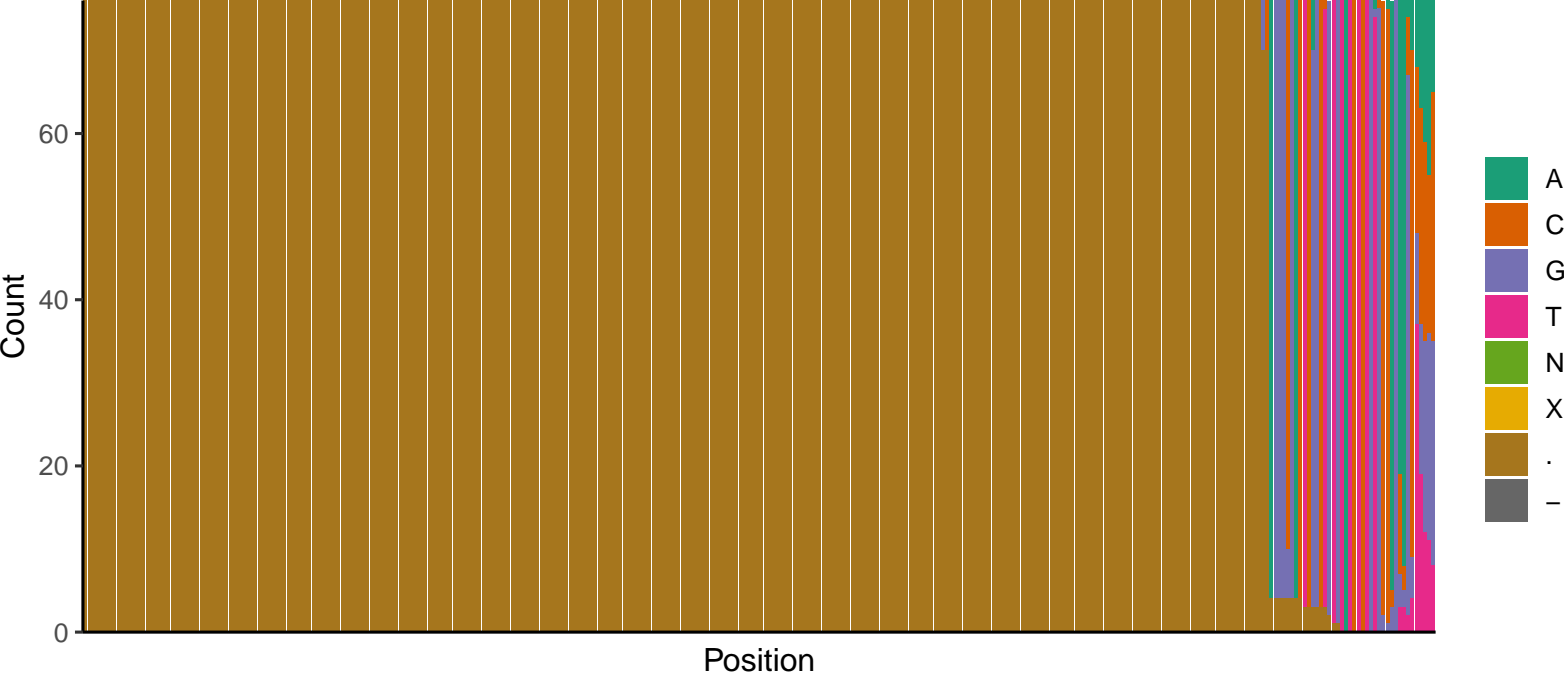
Gene TRBV5-7\*ap01\_G290A



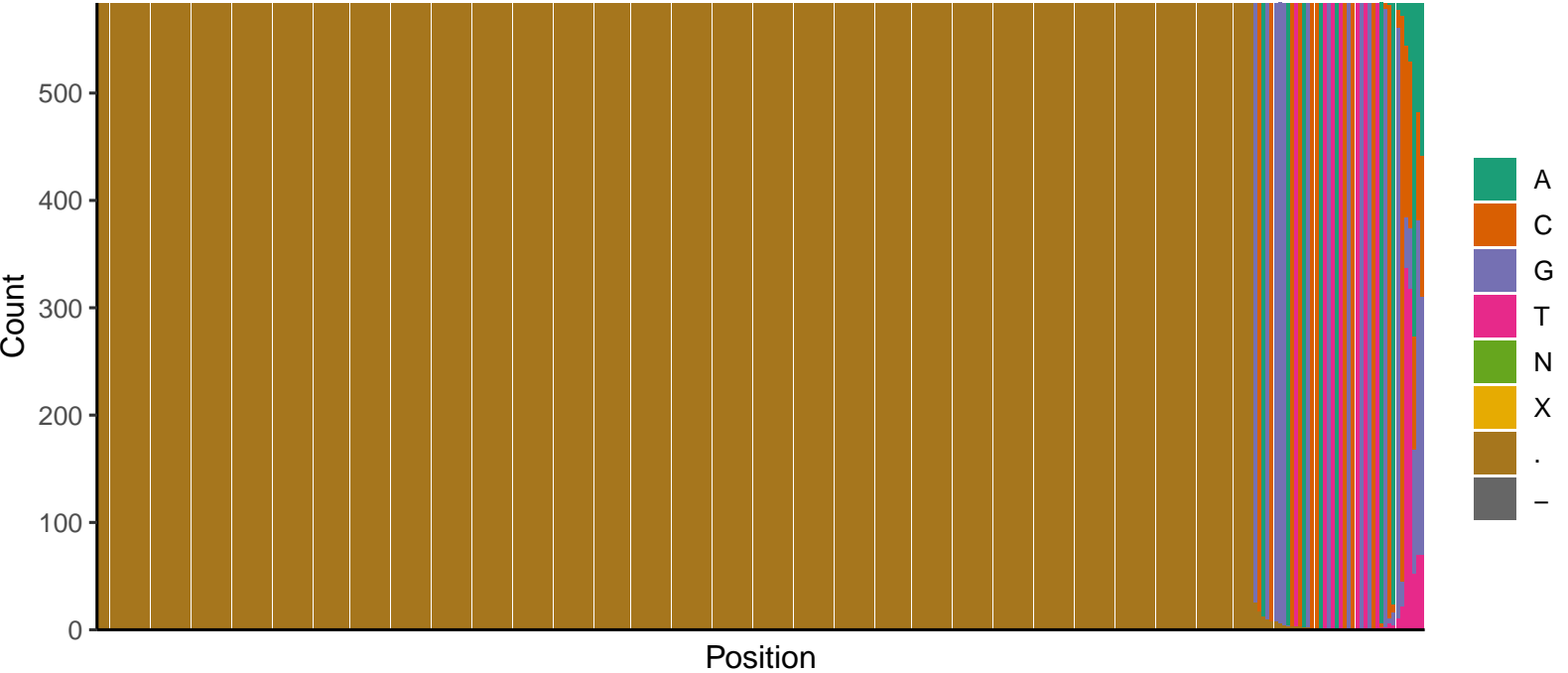
Gene TRBV6-8\*ap01\_A293G



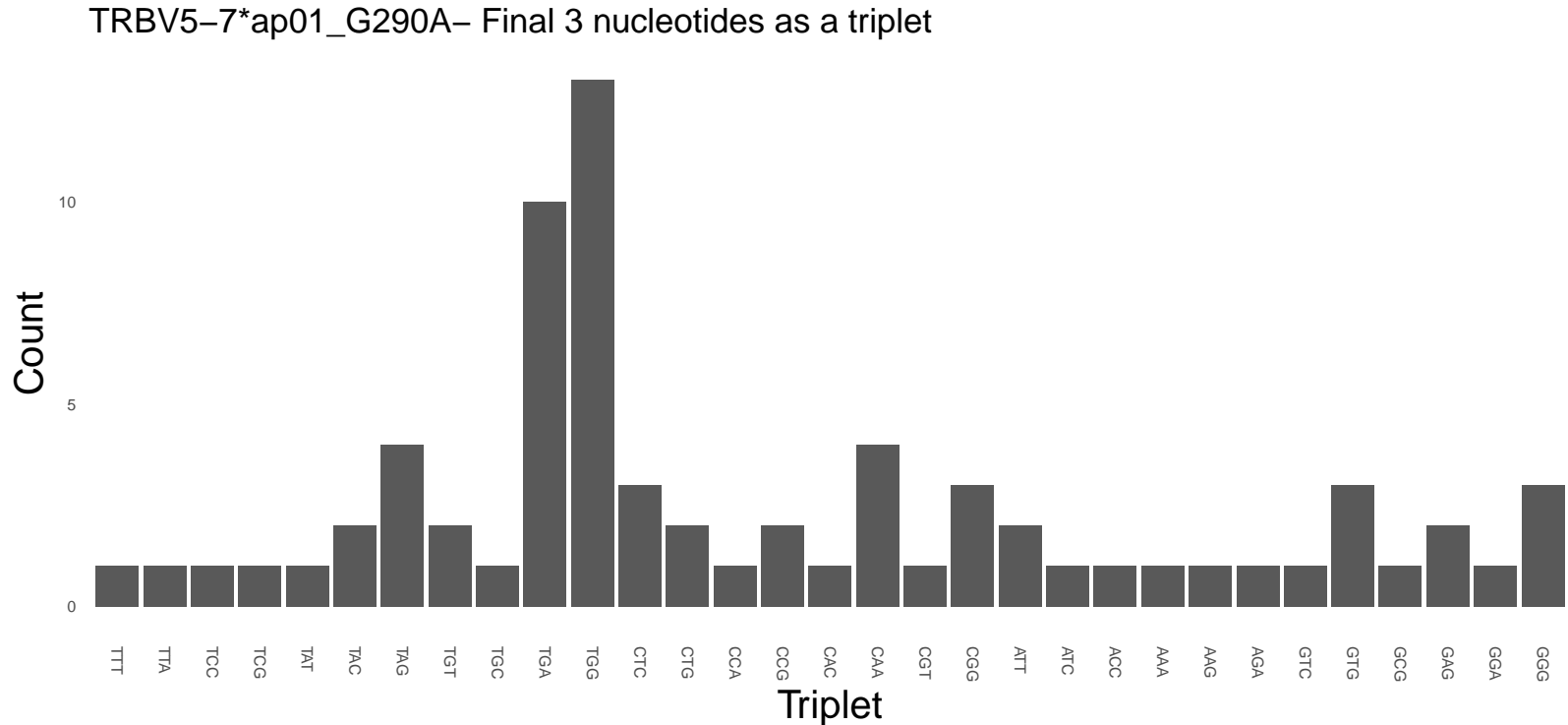
Gene TRBV7-1\*ap01\_T296C



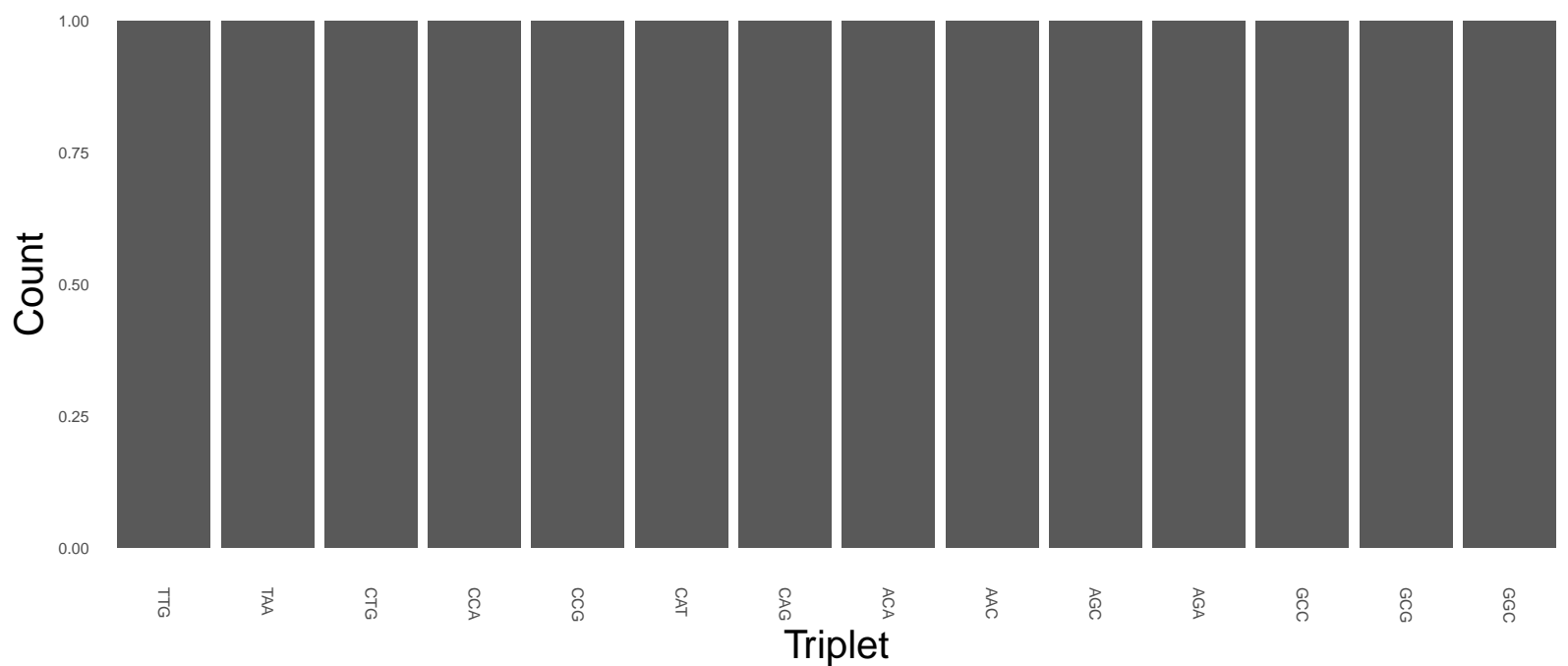
Gene TRBV7-7\*ap01\_C315T



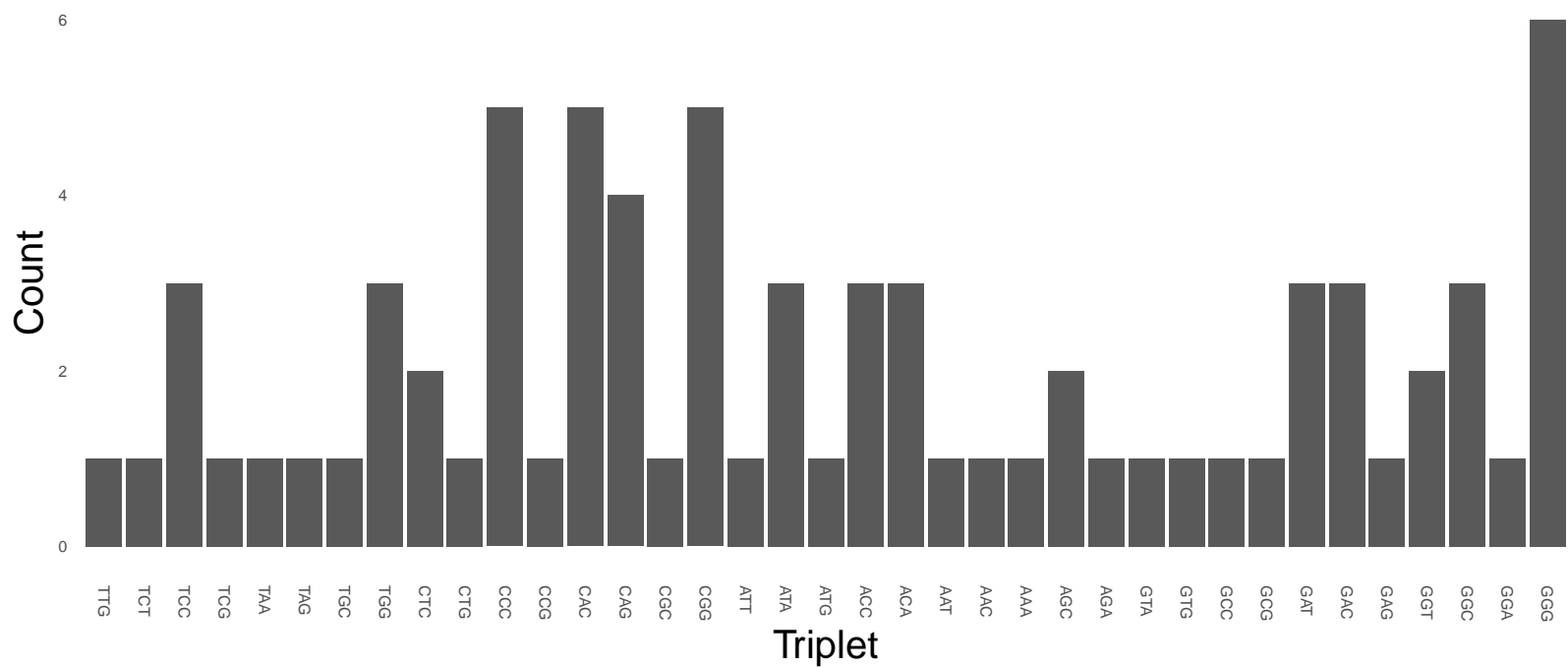
TRBV5-7\*ap01\_G290A- Final 3 nucleotides as a triplet



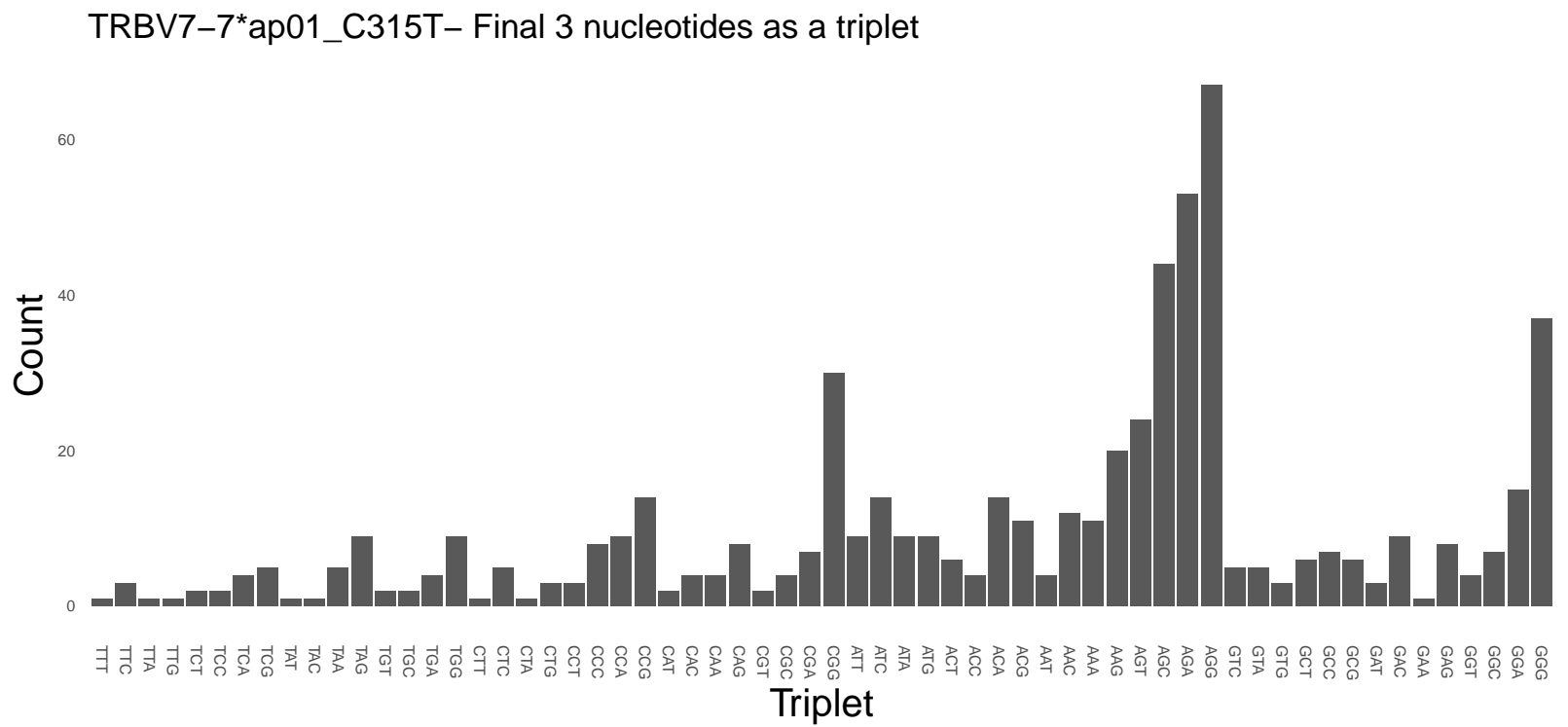
TRBV6-8\*ap01\_A293G- Final 3 nucleotides as a triplet



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

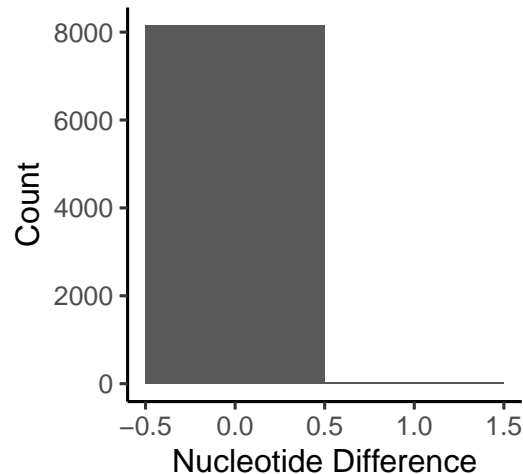


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



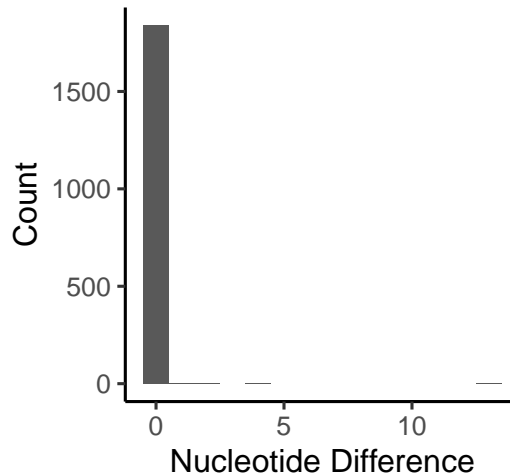
### TRBV20-1\*ap01

8186 sequences assigned  
8153 (99.6%) exact matches, in which:  
8119 unique CDR3  
13 unique J



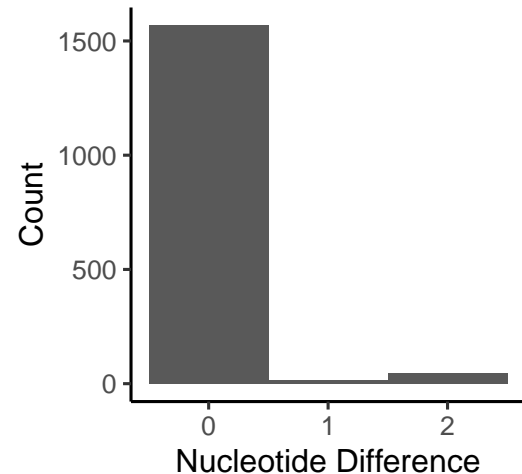
### TRBV10-2\*ap01

1846 sequences assigned  
1839 (99.6%) exact matches, in which:  
1826 unique CDR3  
13 unique J



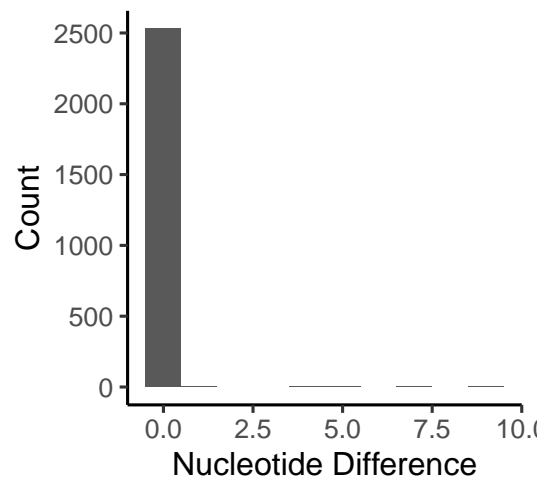
### TRBV13\*ap01

1628 sequences assigned  
1568 (96.3%) exact matches, in which:  
1554 unique CDR3  
13 unique J



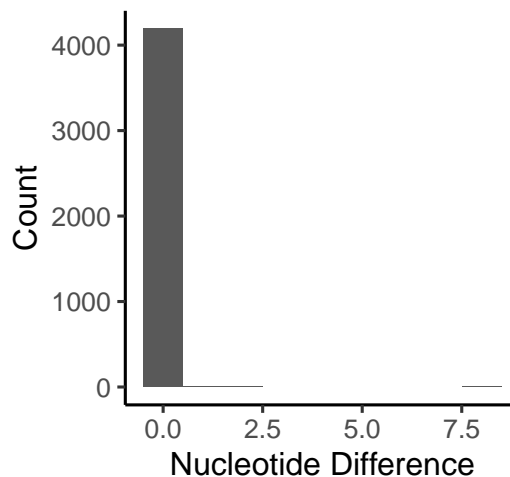
### TRBV10-1\*ap01

2540 sequences assigned  
2530 (99.6%) exact matches, in which:  
2518 unique CDR3  
13 unique J



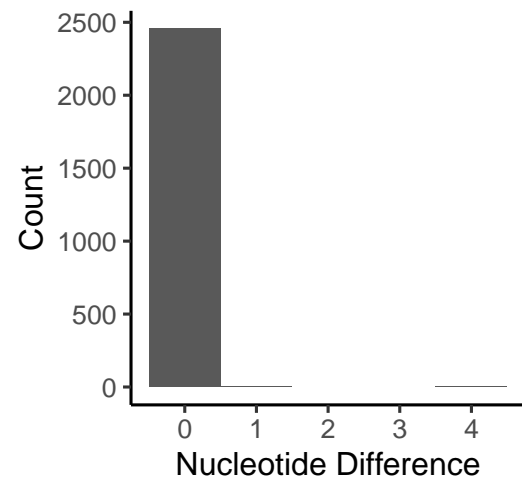
### TRBV10-3\*ap01

4206 sequences assigned  
4192 (99.7%) exact matches, in which:  
4170 unique CDR3  
13 unique J



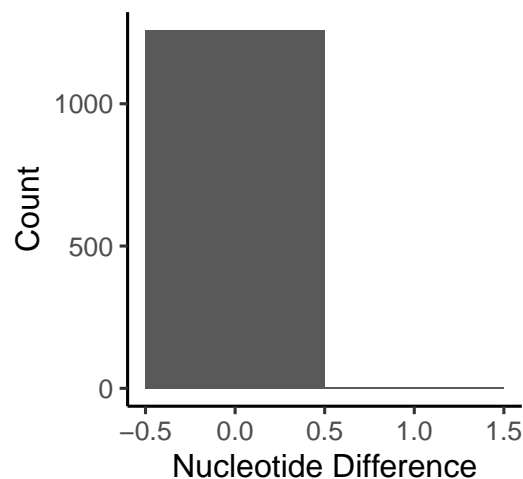
### TRBV14\*ap01

2459 sequences assigned  
2456 (99.9%) exact matches, in which:  
2449 unique CDR3  
13 unique J



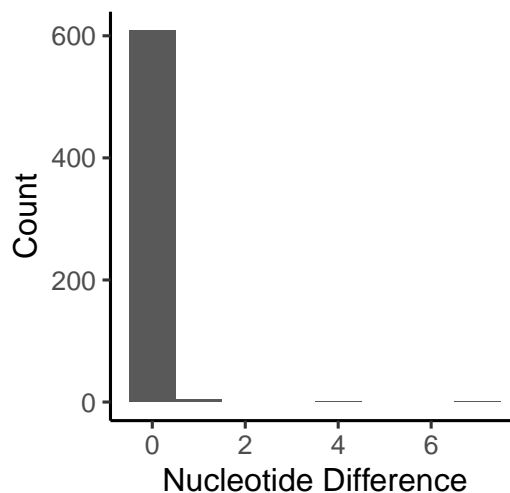
### TRBV20-1\*ap02

1264 sequences assigned  
1259 (99.6%) exact matches, in which:  
1255 unique CDR3  
13 unique J



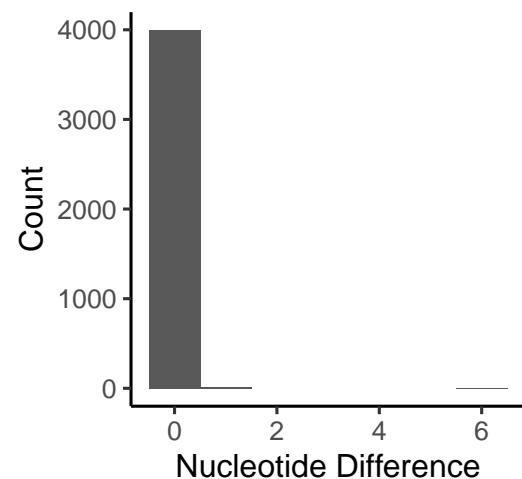
### TRBV1\*ap01

615 sequences assigned  
609 (99%) exact matches, in which:  
600 unique CDR3  
13 unique J



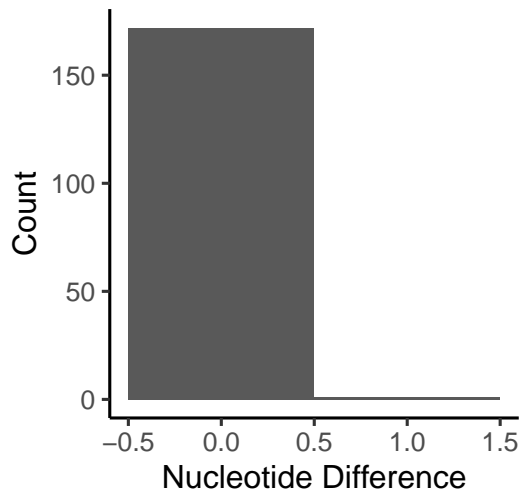
### TRBV15\*ap02

4014 sequences assigned  
3997 (99.6%) exact matches, in which:  
3974 unique CDR3  
13 unique J



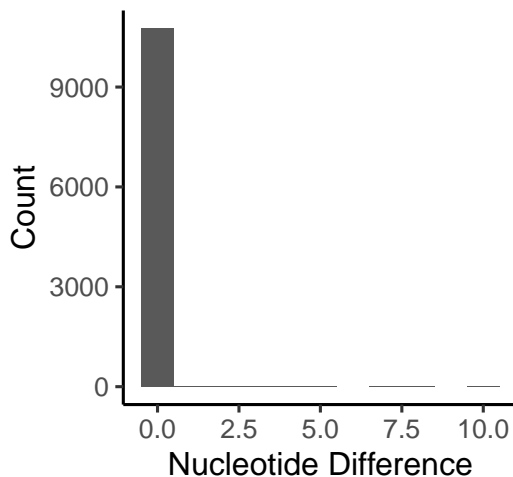
### TRBV16\*ap01

173 sequences assigned  
172 (99.4%) exact matches, in which:  
171 unique CDR3  
13 unique J



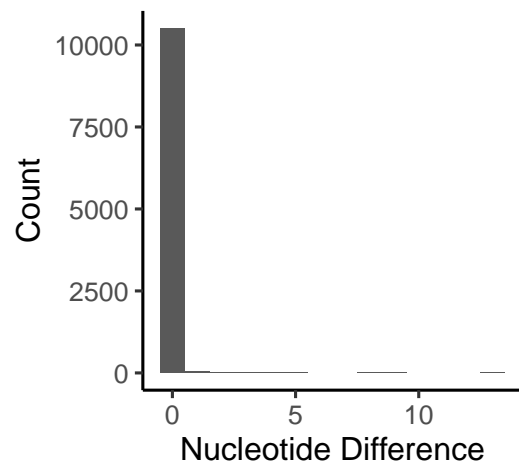
### TRBV19\*ap01

10808 sequences assigned  
10761 (99.6%) exact matches, in which:  
10734 unique CDR3  
13 unique J



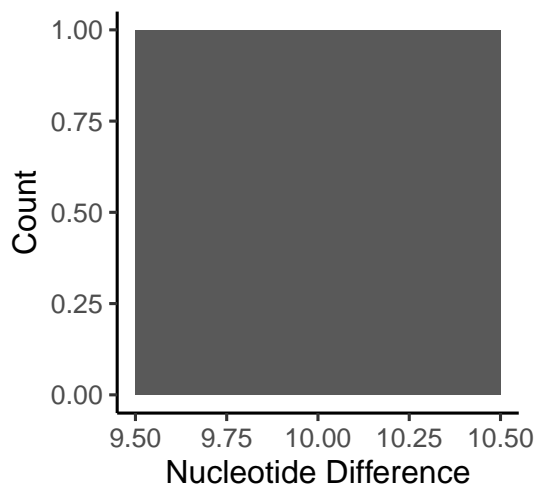
### TRBV27\*ap01

10563 sequences assigned  
10513 (99.5%) exact matches, in which:  
10438 unique CDR3  
13 unique J



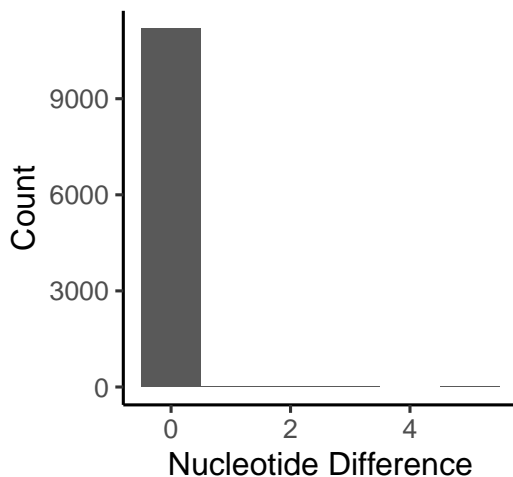
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



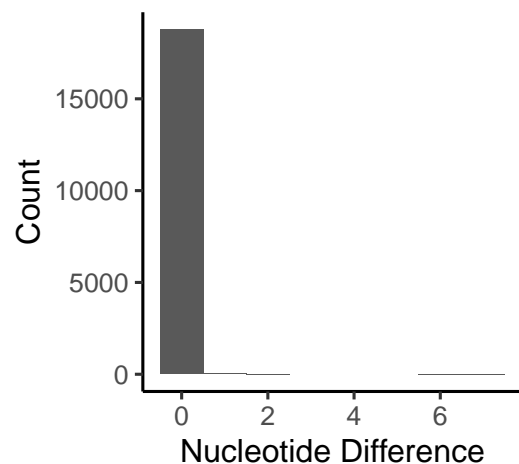
### TRBV2\*ap01

11221 sequences assigned  
11185 (99.7%) exact matches, in which:  
11111 unique CDR3  
13 unique J



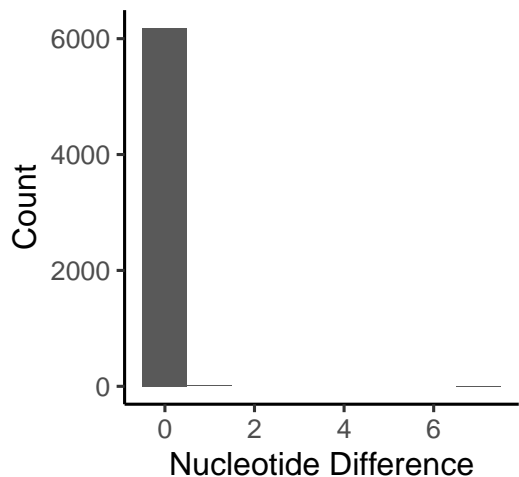
### TRBV28\*ap01

18836 sequences assigned  
18777 (99.7%) exact matches, in which:  
18706 unique CDR3  
13 unique J



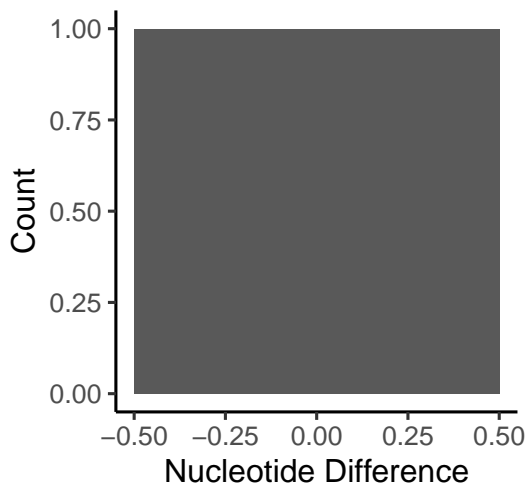
### TRBV18\*ap01

6197 sequences assigned  
6183 (99.8%) exact matches, in which:  
6169 unique CDR3  
13 unique J



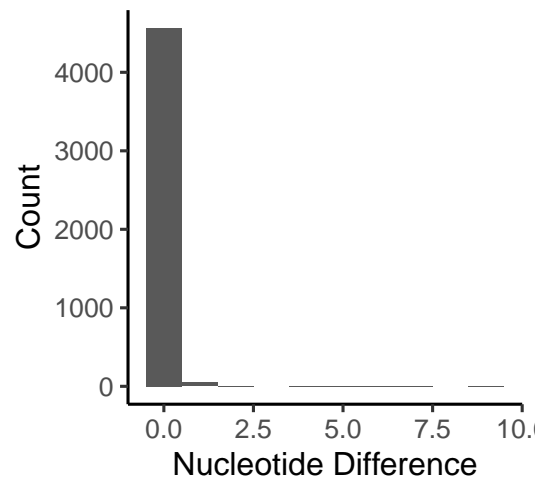
### TRBV26\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



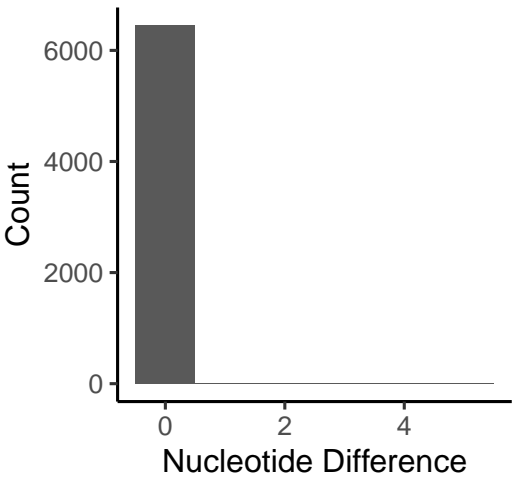
### TRBV30\*ap02

4622 sequences assigned  
4564 (98.7%) exact matches, in which:  
4485 unique CDR3  
13 unique J



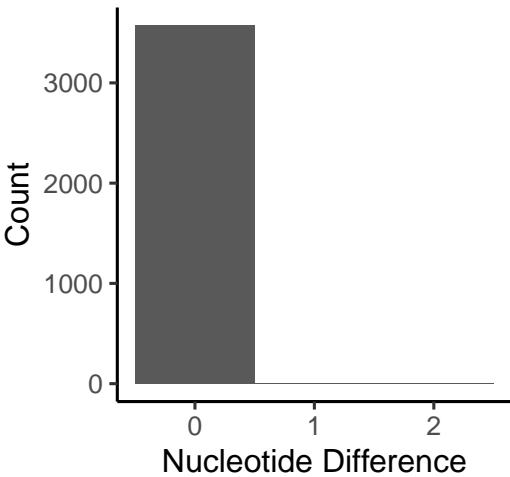
TRBV9\*ap01

6472 sequences assigned  
6450 (99.7%) exact matches, in which:  
6424 unique CDR3  
13 unique J



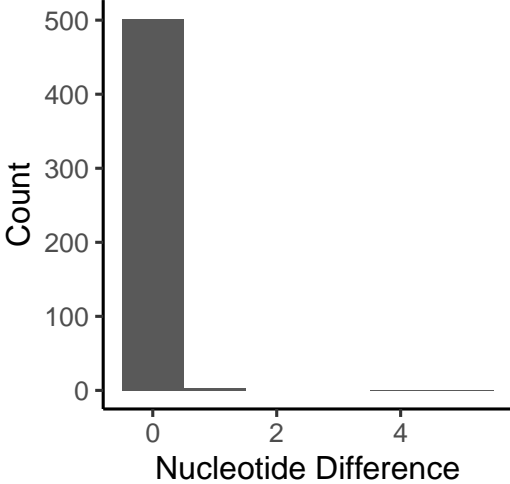
TRBV11-2\*ap01

3577 sequences assigned  
3573 (99.9%) exact matches, in which:  
3561 unique CDR3  
13 unique J



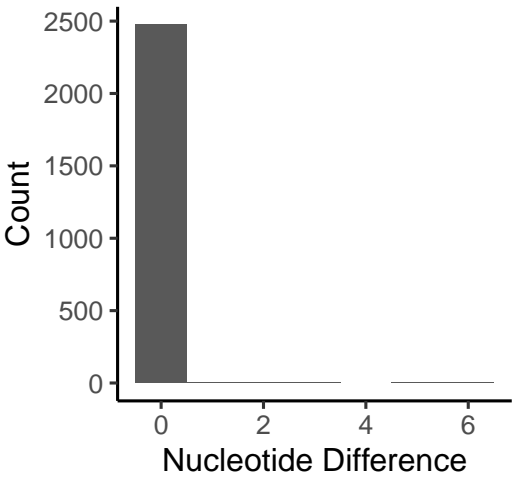
TRBV12-2\*ap01

507 sequences assigned  
502 (99%) exact matches, in which:  
502 unique CDR3  
13 unique J



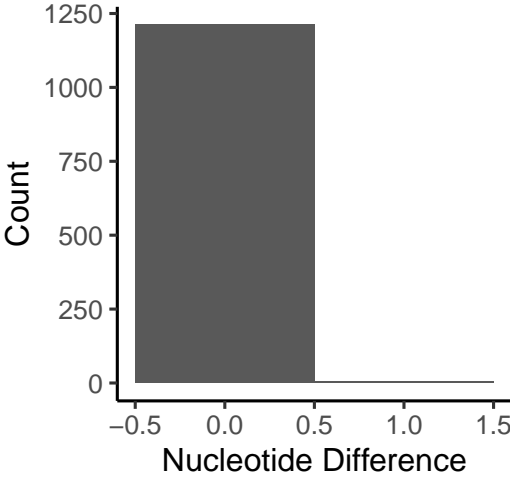
TRBV21-1\*ap01

2495 sequences assigned  
2475 (99.2%) exact matches, in which:  
2466 unique CDR3  
13 unique J



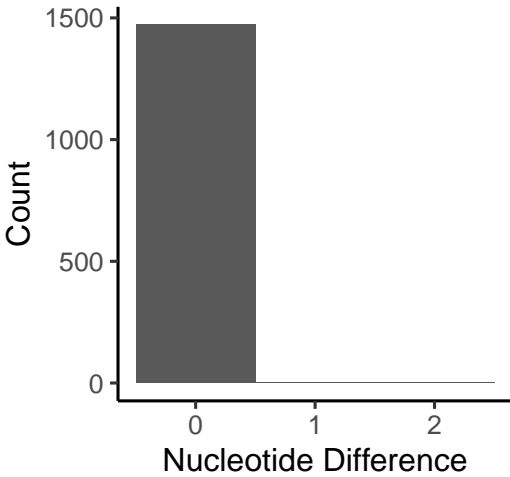
TRBV11-3\*ap01

1217 sequences assigned  
1212 (99.6%) exact matches, in which:  
1207 unique CDR3  
13 unique J



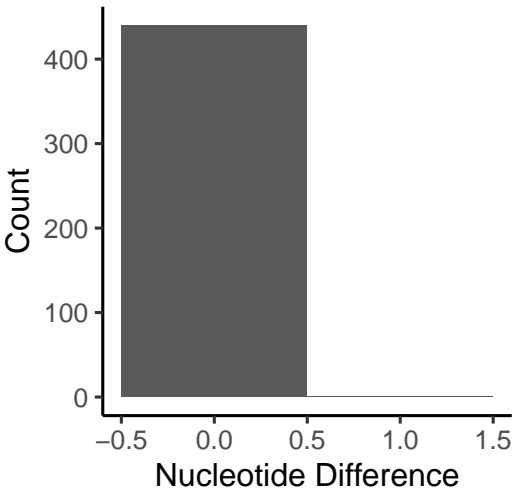
TRBV12-5\*ap01

1479 sequences assigned  
1472 (99.5%) exact matches, in which:  
1467 unique CDR3  
13 unique J



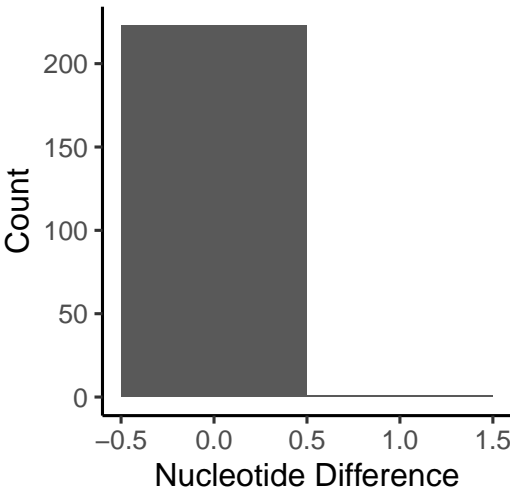
TRBV11-1\*ap01

441 sequences assigned  
440 (99.8%) exact matches, in which:  
435 unique CDR3  
13 unique J



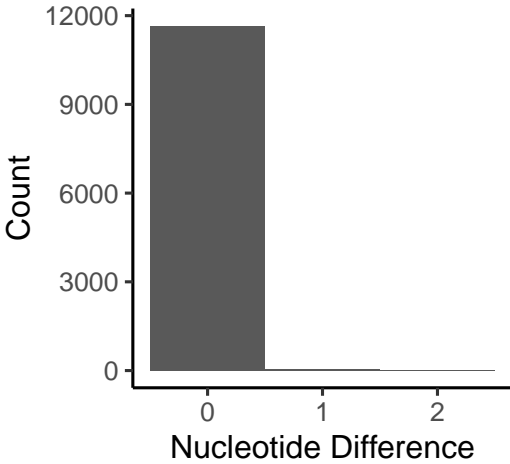
TRBV12-1\*ap01

224 sequences assigned  
223 (99.6%) exact matches, in which:  
222 unique CDR3  
13 unique J



TRBV12-34\*ap01

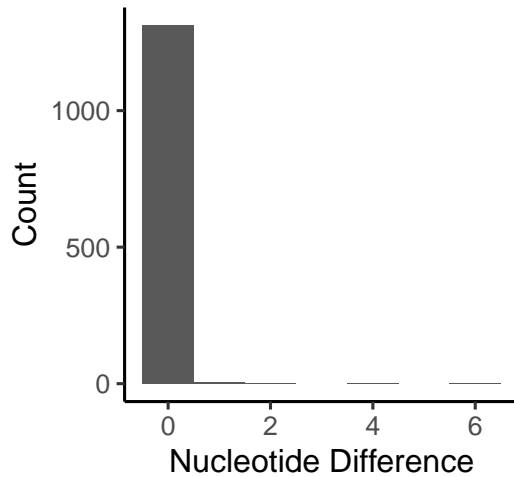
11710 sequences assigned  
11657 (99.5%) exact matches, in which:  
11612 unique CDR3  
13 unique J





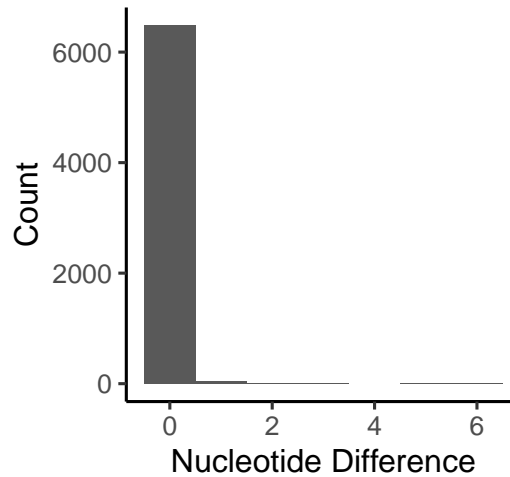
### TRBV23-1\*ap01

1322 sequences assigned  
1312 (99.2%) exact matches, in which:  
1311 unique CDR3  
13 unique J



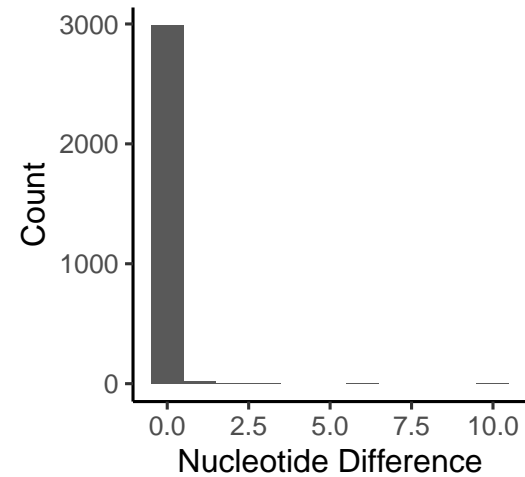
### TRBV24-1\*ap01

6529 sequences assigned  
6483 (99.3%) exact matches, in which:  
6449 unique CDR3  
13 unique J



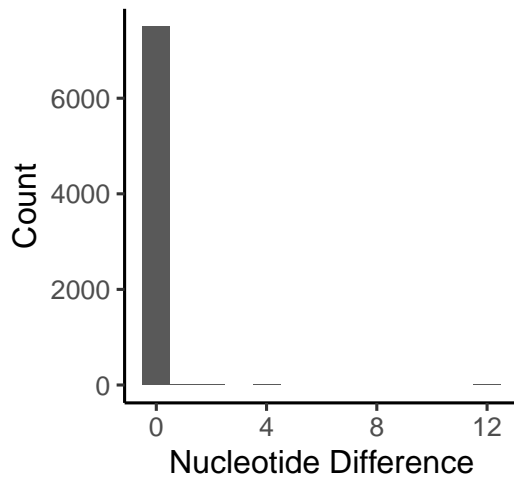
### TRBV25-1\*ap01

3010 sequences assigned  
2988 (99.3%) exact matches, in which:  
2948 unique CDR3  
13 unique J



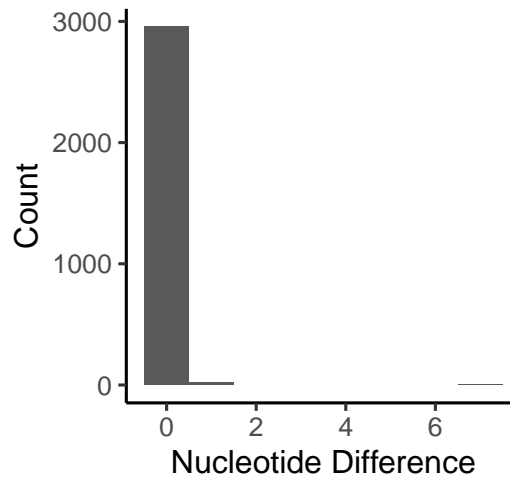
### TRBV3-12\*ap01

7515 sequences assigned  
7496 (99.7%) exact matches, in which:  
7474 unique CDR3  
13 unique J



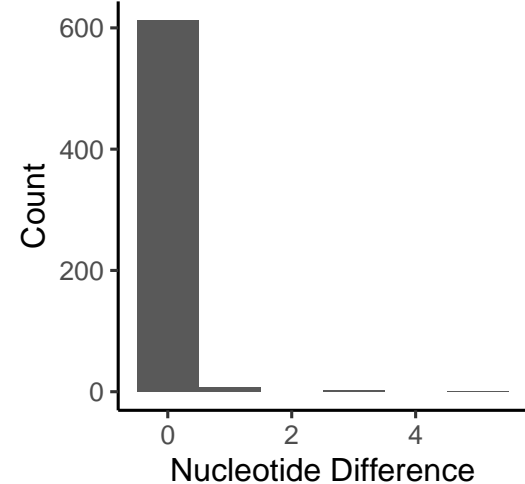
### TRBV4-2\*ap01

2976 sequences assigned  
2956 (99.3%) exact matches, in which:  
2937 unique CDR3  
13 unique J



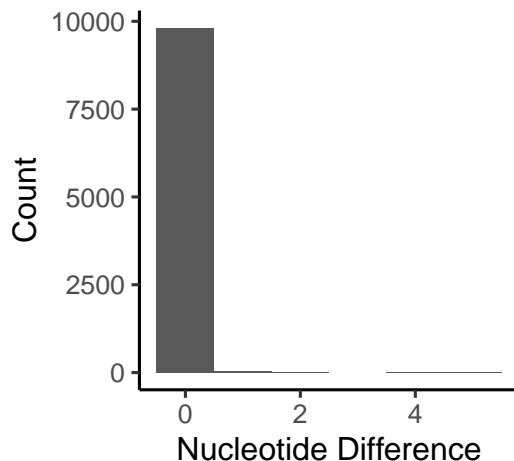
### TRBV5-3\*ap01

623 sequences assigned  
613 (98.4%) exact matches, in which:  
607 unique CDR3  
13 unique J



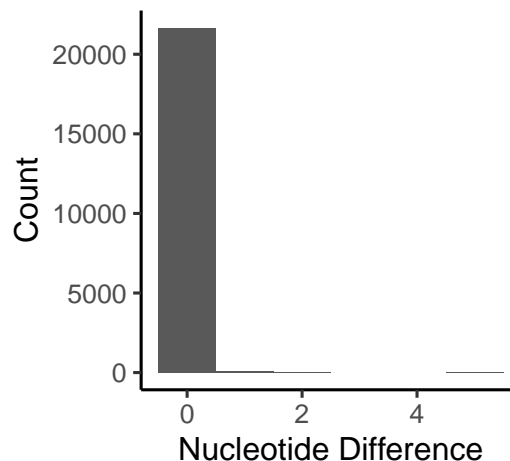
### TRBV4-1\*ap01

9862 sequences assigned  
9816 (99.5%) exact matches, in which:  
9738 unique CDR3  
13 unique J



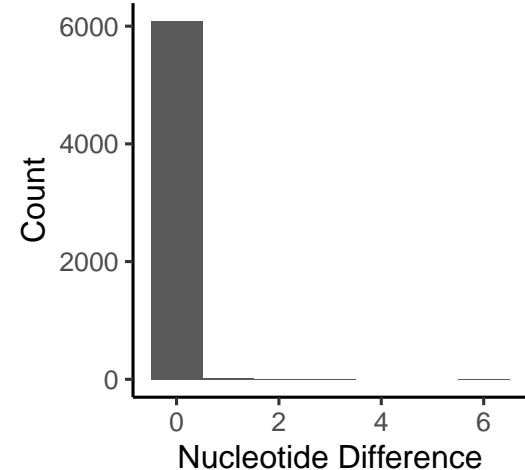
### TRBV5-1\*ap01

21740 sequences assigned  
21663 (99.6%) exact matches, in which:  
21496 unique CDR3  
13 unique J



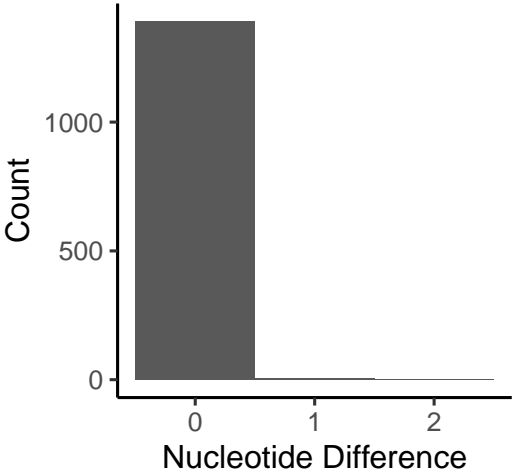
### TRBV5-4\*ap01

6116 sequences assigned  
6087 (99.5%) exact matches, in which:  
6043 unique CDR3  
13 unique J



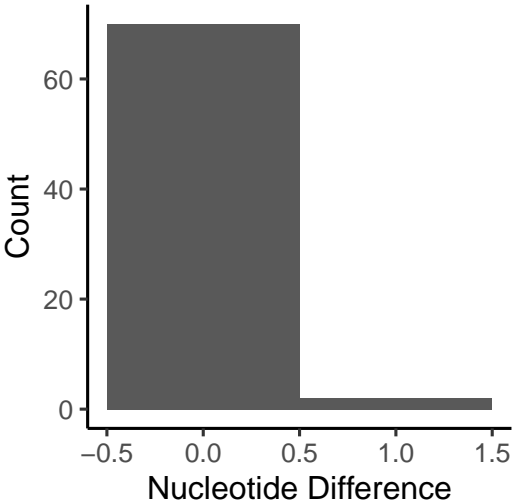
TRBV5-5\*ap01

1397 sequences assigned  
1391 (99.6%) exact matches, in which:  
1387 unique CDR3  
13 unique J



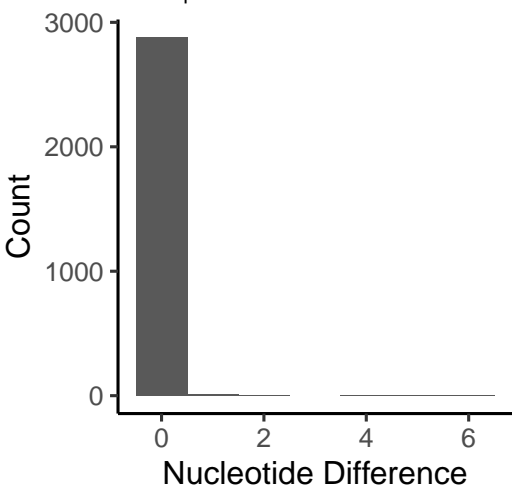
TRBV5-7\*ap01\_G290A

72 sequences assigned  
70 (97.2%) exact matches, in which:  
67 unique CDR3  
12 unique J



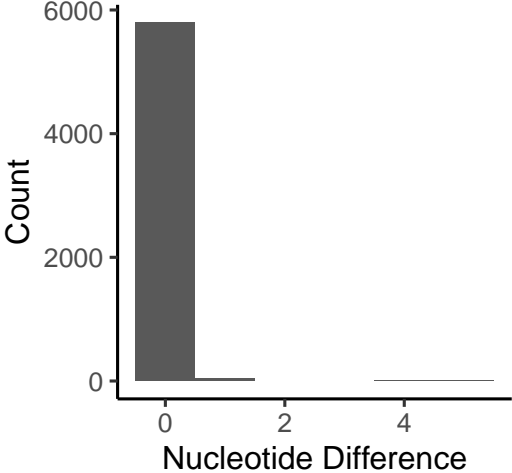
TRBV6-4\*ap01

2896 sequences assigned  
2879 (99.4%) exact matches, in which:  
2869 unique CDR3  
14 unique J



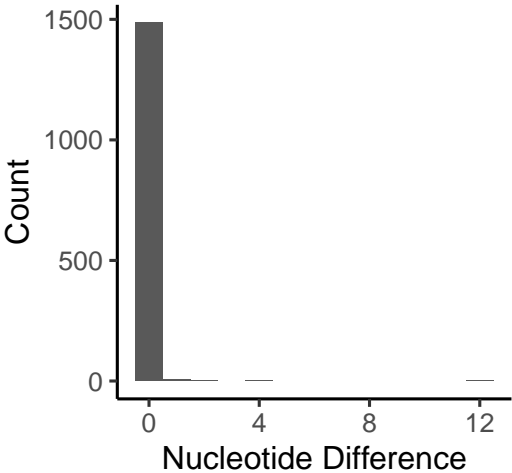
TRBV5-6\*ap01

5837 sequences assigned  
5794 (99.3%) exact matches, in which:  
5707 unique CDR3  
13 unique J



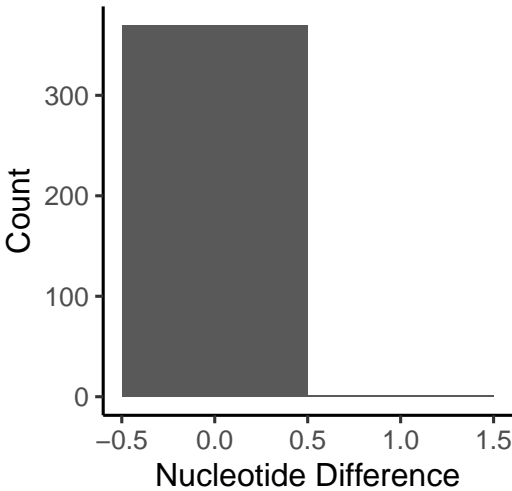
TRBV5-8\*ap01

1497 sequences assigned  
1486 (99.3%) exact matches, in which:  
1482 unique CDR3  
13 unique J



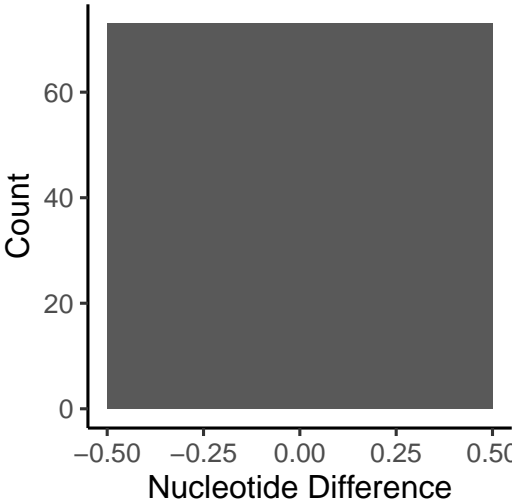
TRBV6-7\*ap01

371 sequences assigned  
370 (99.7%) exact matches, in which:  
367 unique CDR3  
13 unique J



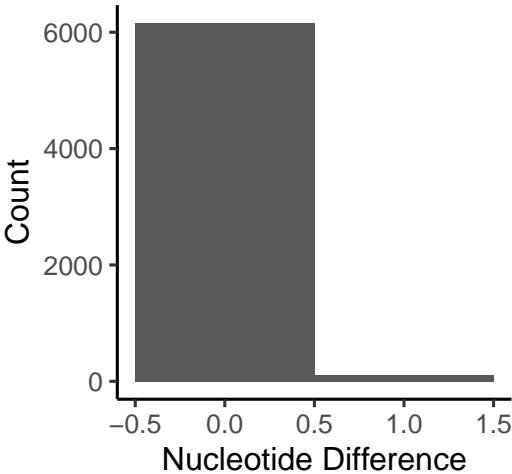
TRBV5-7\*ap01

73 sequences assigned  
73 (100%) exact matches, in which:  
71 unique CDR3  
13 unique J



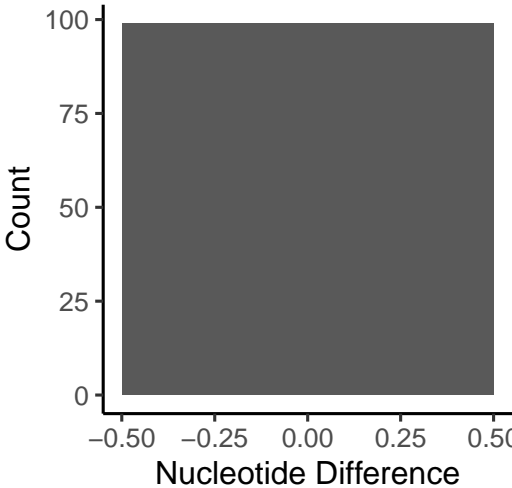
TRBV6-1\*ap01

6268 sequences assigned  
6158 (98.2%) exact matches, in which:  
6117 unique CDR3  
13 unique J



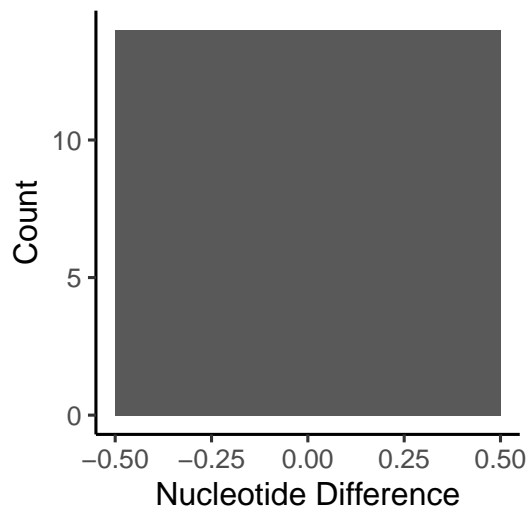
TRBV6-8\*ap01

99 sequences assigned  
99 (100%) exact matches, in which:  
99 unique CDR3  
12 unique J



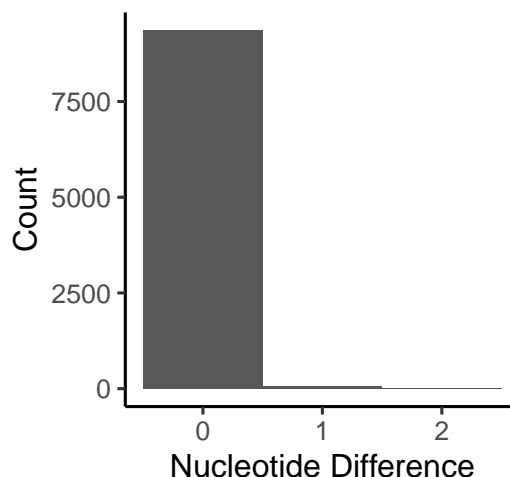
### TRBV6–8\*ap01\_A293G

14 sequences assigned  
14 (100%) exact matches, in which:  
14 unique CDR3  
8 unique J



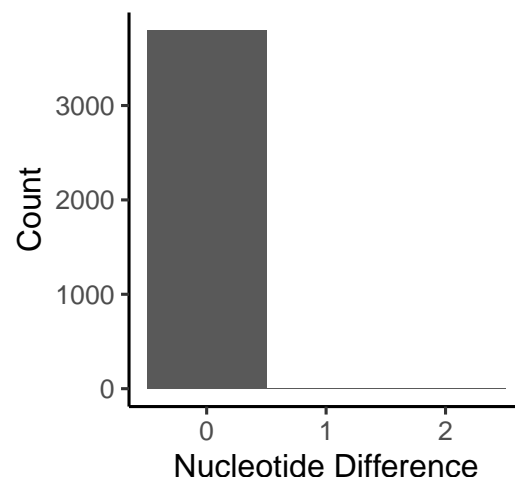
### TRBV6–56\*ap01

9412 sequences assigned  
9357 (99.4%) exact matches, in which:  
9260 unique CDR3  
13 unique J



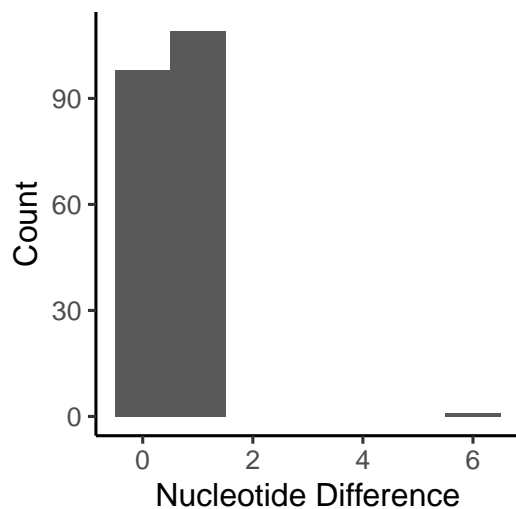
### TRBV7–2\*ap01

3805 sequences assigned  
3796 (99.8%) exact matches, in which:  
3780 unique CDR3  
13 unique J



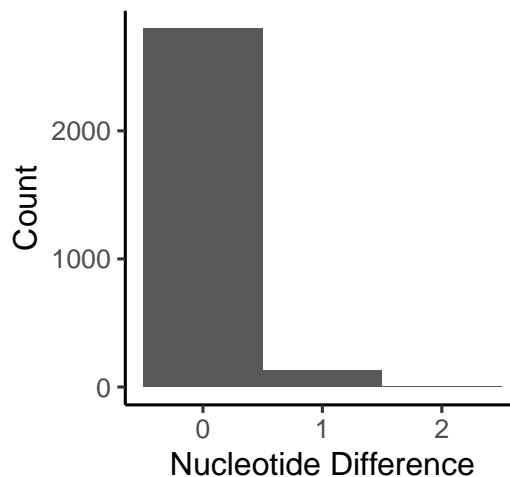
### TRBV6–9\*ap01

208 sequences assigned  
98 (47.1%) exact matches, in which:  
97 unique CDR3  
11 unique J



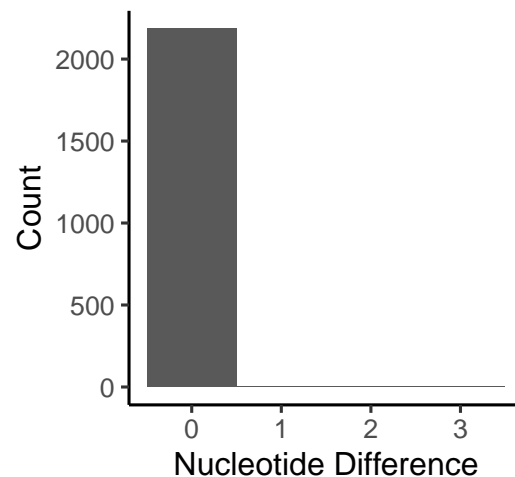
### TRBV6–56\*ap02

2930 sequences assigned  
2797 (95.5%) exact matches, in which:  
2776 unique CDR3  
13 unique J



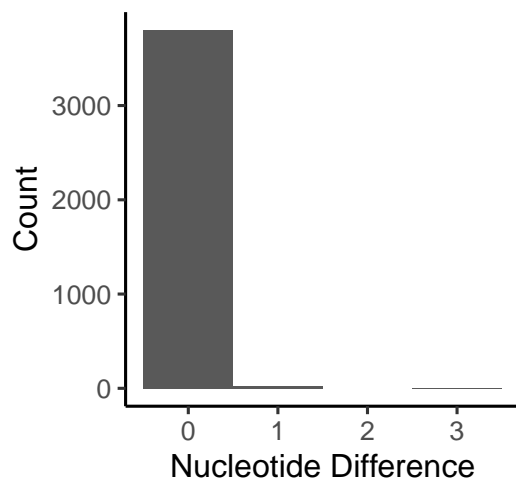
### TRBV7–3\*ap01

2194 sequences assigned  
2185 (99.6%) exact matches, in which:  
2180 unique CDR3  
13 unique J



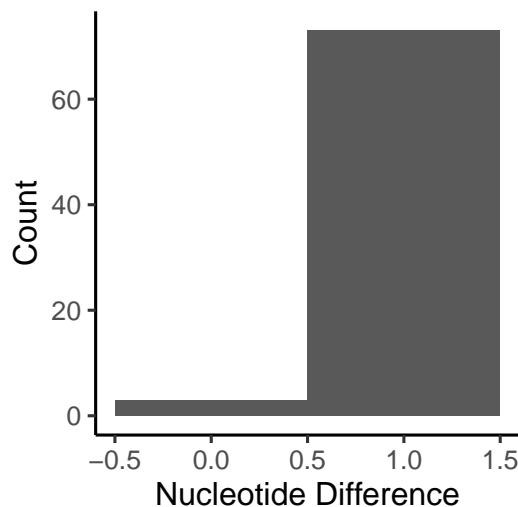
### TRBV6–23\*ap01

3825 sequences assigned  
3801 (99.4%) exact matches, in which:  
3757 unique CDR3  
14 unique J



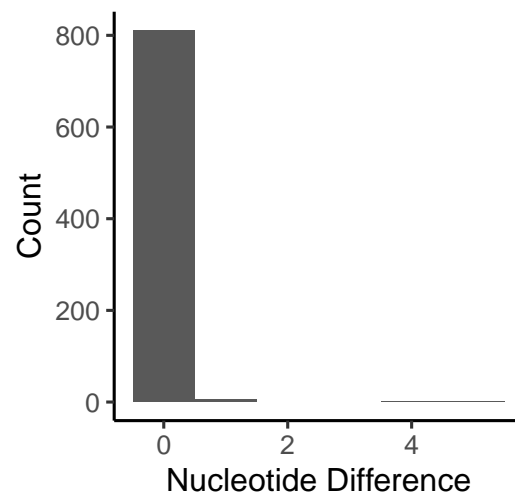
### TRBV7–1\*ap01\_T296C

76 sequences assigned  
3 (3.9%) exact matches, in which:  
3 unique CDR3  
2 unique J



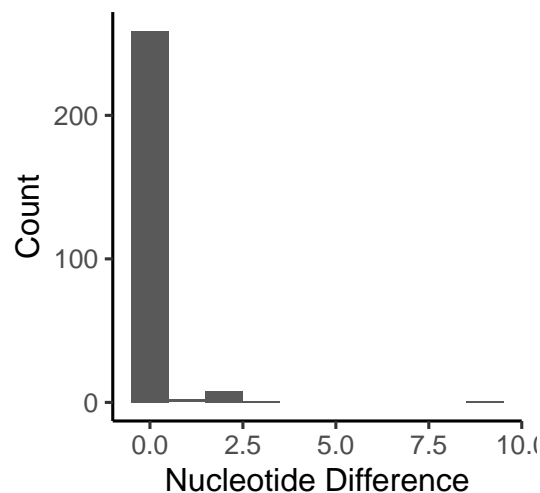
### TRBV7–3\*ap03

818 sequences assigned  
811 (99.1%) exact matches, in which:  
804 unique CDR3  
13 unique J



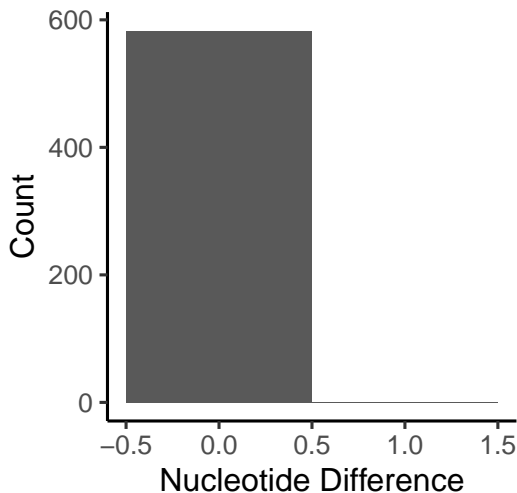
### TRBV7-4\*ap01

271 sequences assigned  
259 (95.6%) exact matches, in which:  
258 unique CDR3  
13 unique J



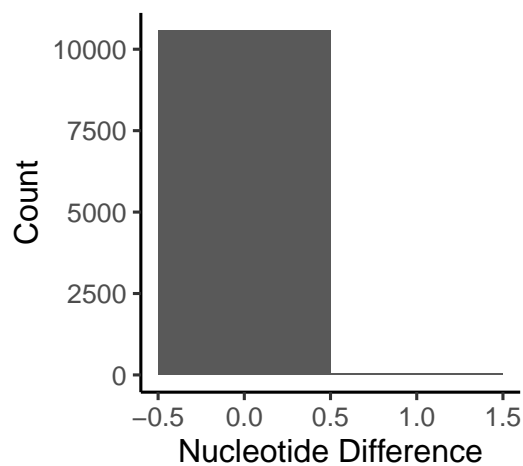
### TRBV7-7\*ap01\_C315T

584 sequences assigned  
583 (99.8%) exact matches, in which:  
580 unique CDR3  
13 unique J



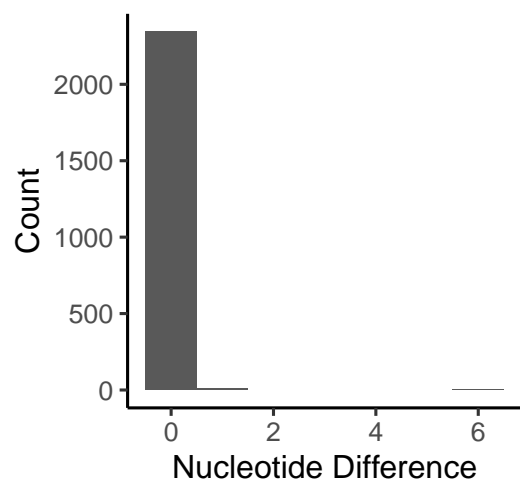
### TRBV7-9\*ap01

10622 sequences assigned  
10586 (99.7%) exact matches, in which:  
10532 unique CDR3  
13 unique J



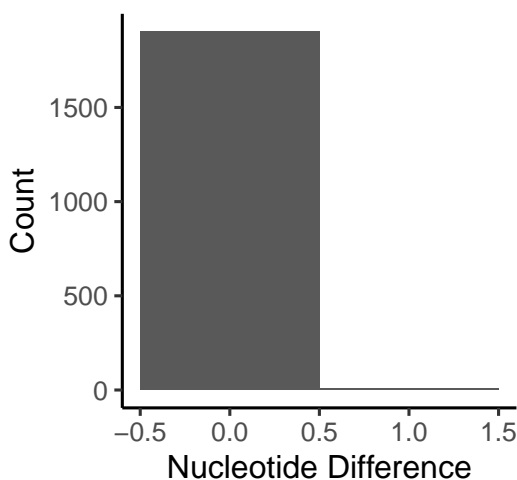
### TRBV7-6\*ap01

2354 sequences assigned  
2344 (99.6%) exact matches, in which:  
2338 unique CDR3  
13 unique J



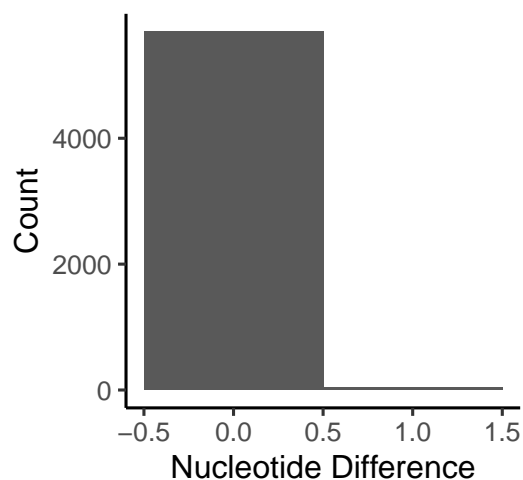
### TRBV7-8\*ap01

1908 sequences assigned  
1902 (99.7%) exact matches, in which:  
1891 unique CDR3  
13 unique J



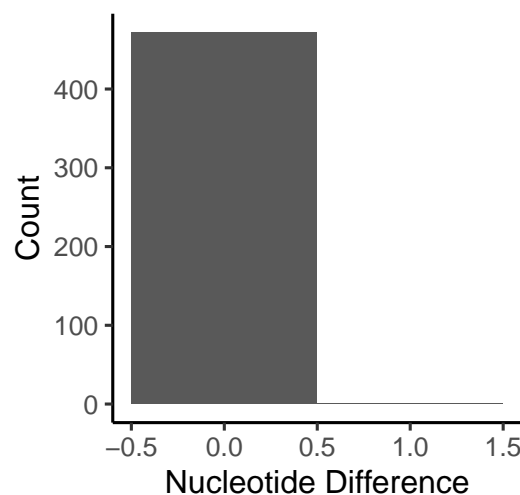
### TRBV29-1\*ap01

5734 sequences assigned  
5693 (99.3%) exact matches, in which:  
5611 unique CDR3  
13 unique J



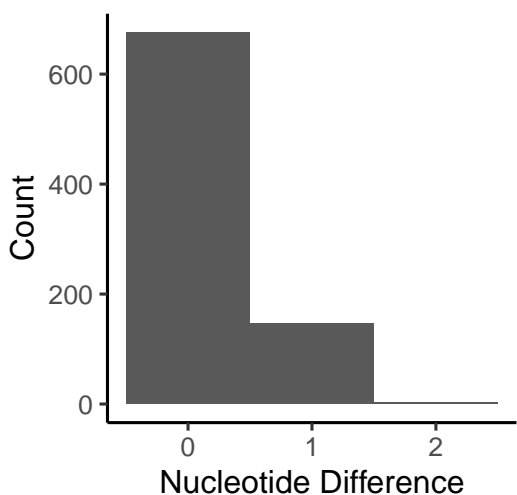
### TRBV7-7\*ap01

473 sequences assigned  
472 (99.8%) exact matches, in which:  
470 unique CDR3  
12 unique J



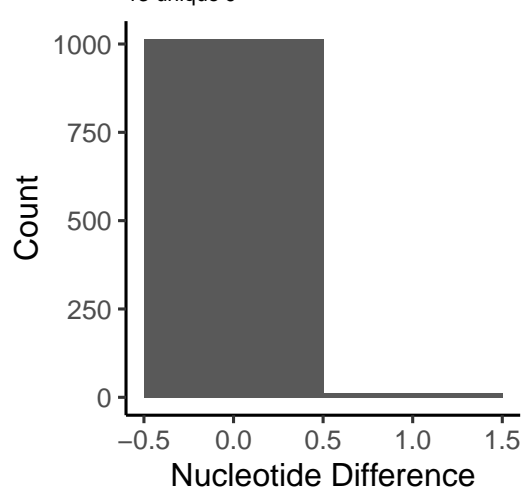
### TRBV7-8\*ap03

826 sequences assigned  
676 (81.8%) exact matches, in which:  
672 unique CDR3  
13 unique J

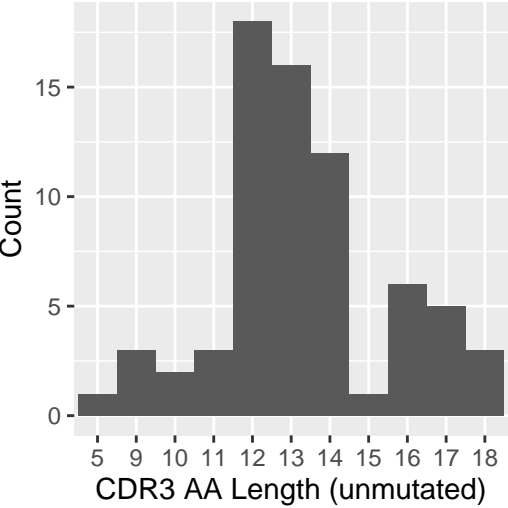


### TRBV29-1\*ap02

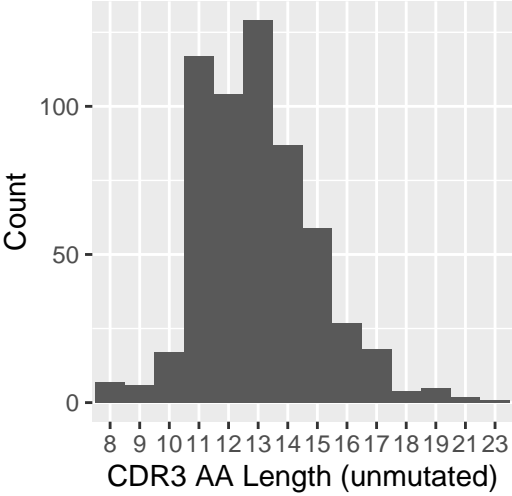
1026 sequences assigned  
1014 (98.8%) exact matches, in which:  
997 unique CDR3  
13 unique J



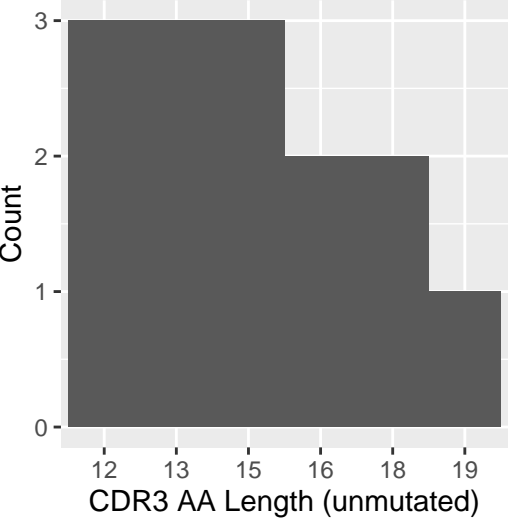
TRBV5-7\*ap01\_G290A



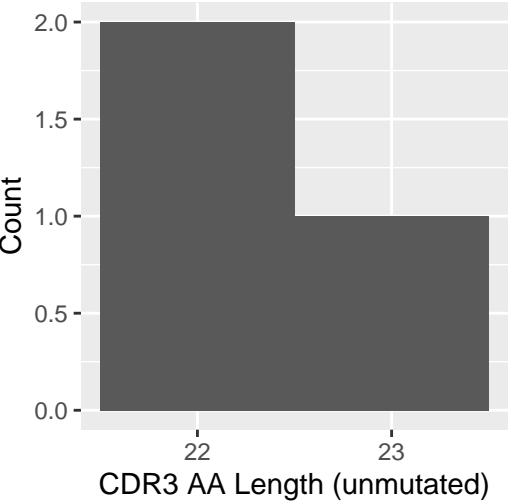
TRBV7-7\*ap01\_C315T



TRBV6-8\*ap01\_A293G



TRBV7-1\*ap01\_T296C





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