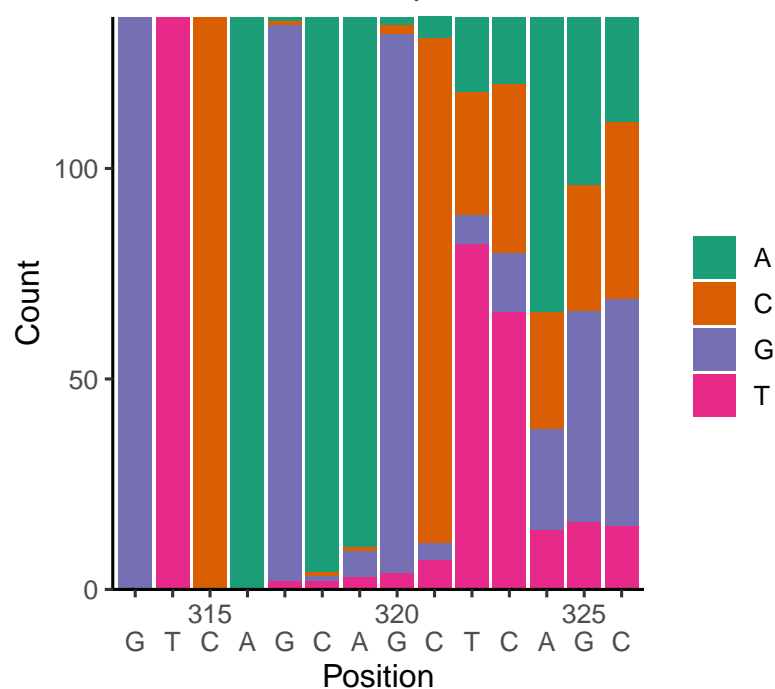
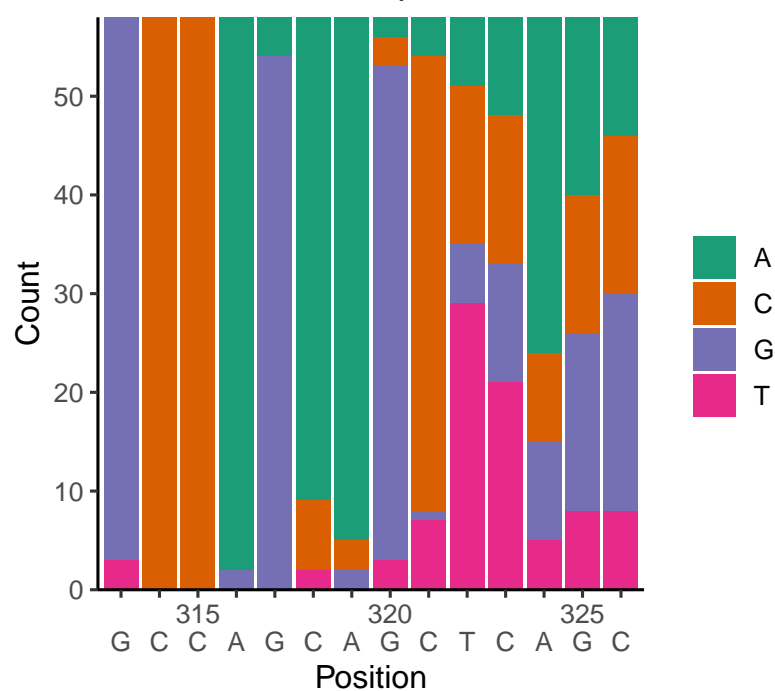


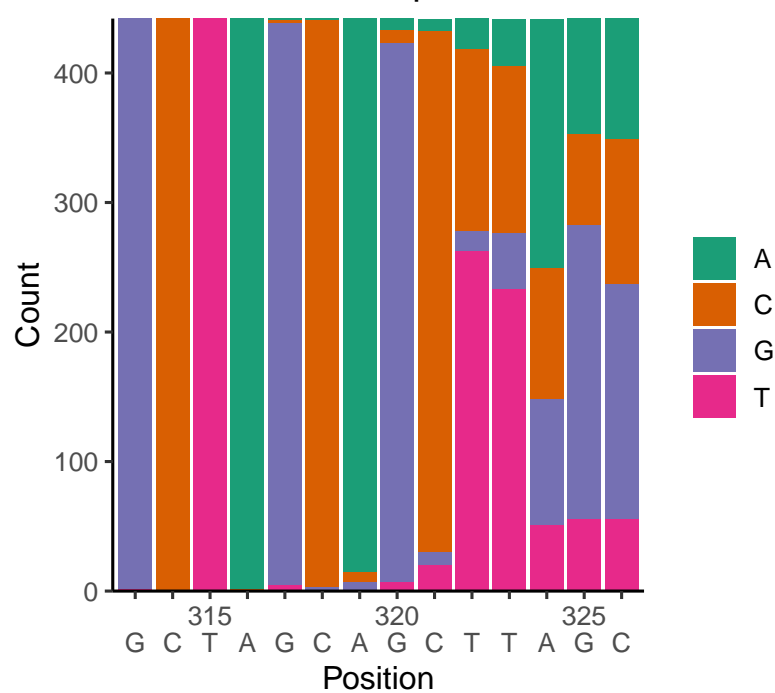
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



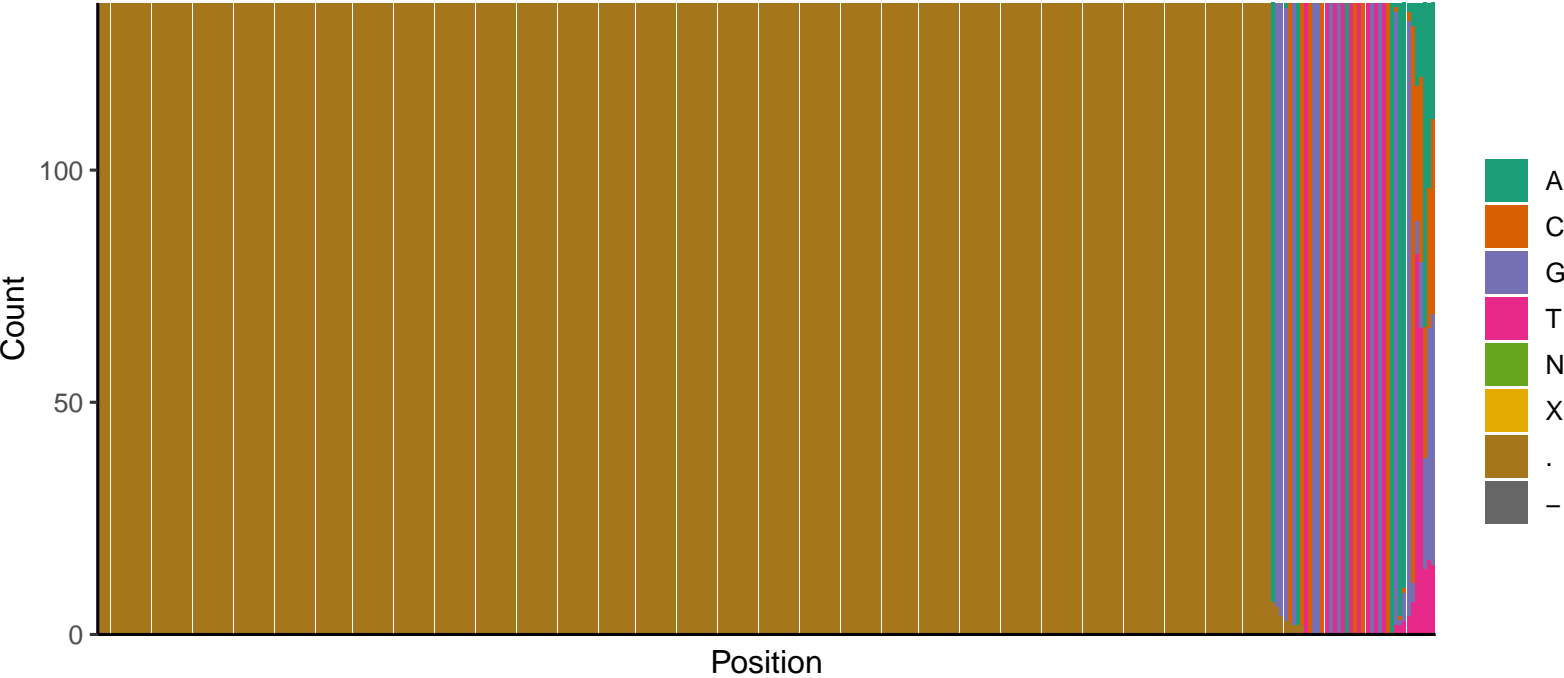
Gene TRBV7-1\*ap01\_G291C\_T296C



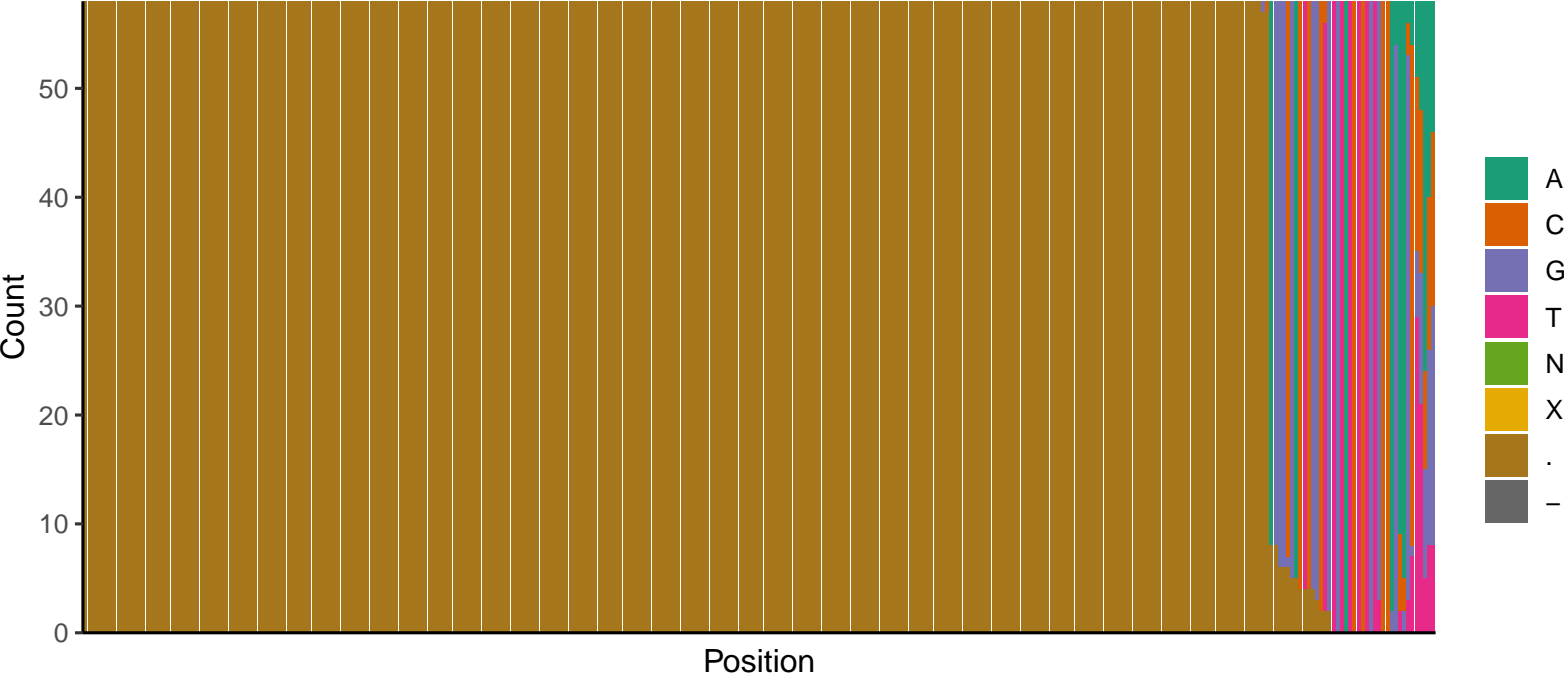
Gene TRBV7-7\*ap01\_C315T



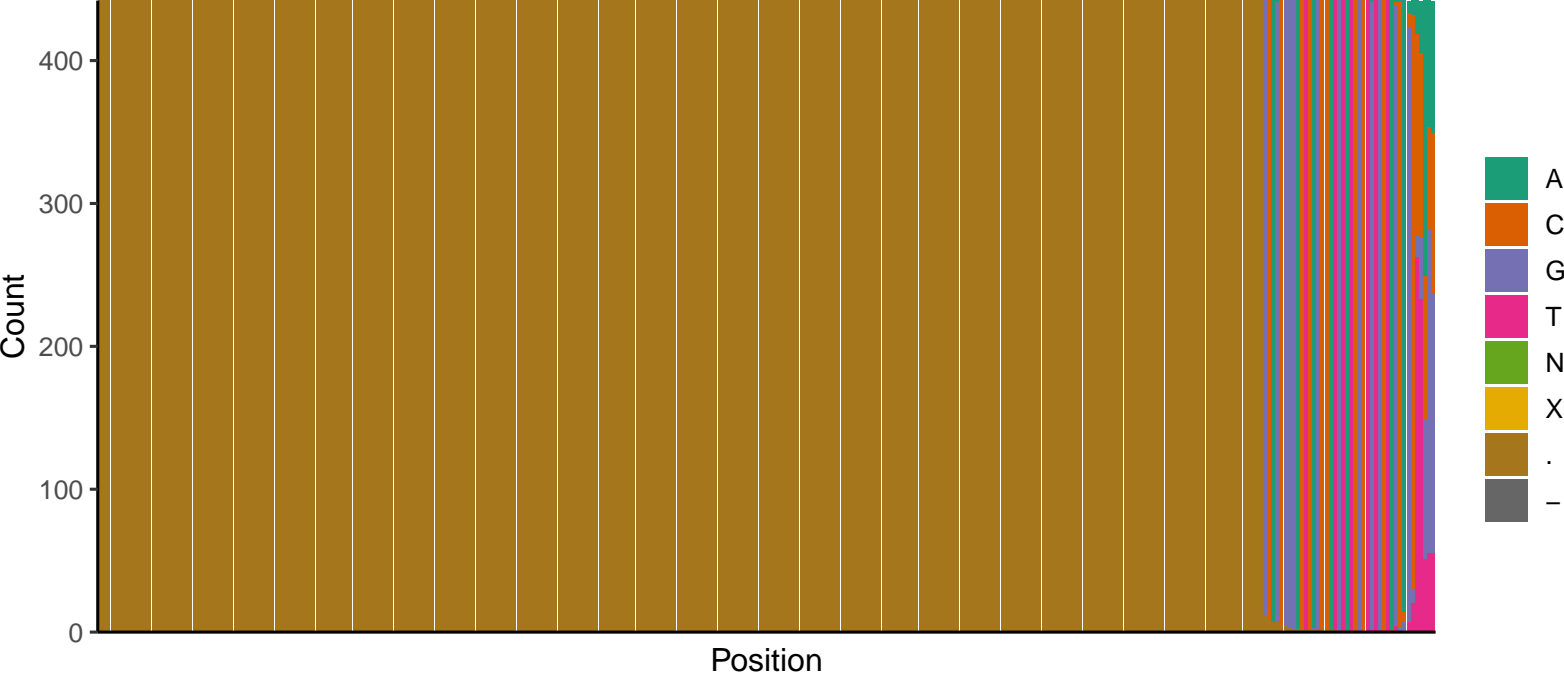
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



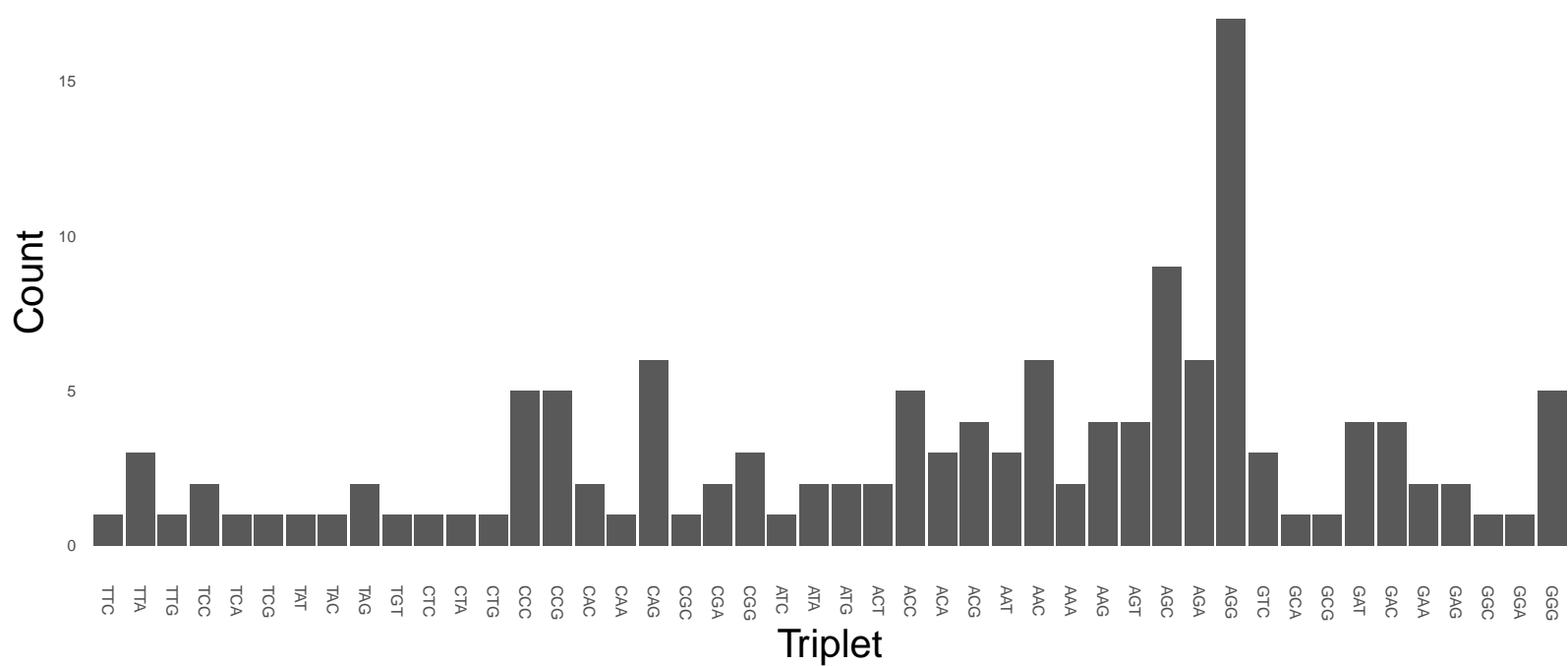
Gene TRBV7-1\*ap01\_G291C\_T296C



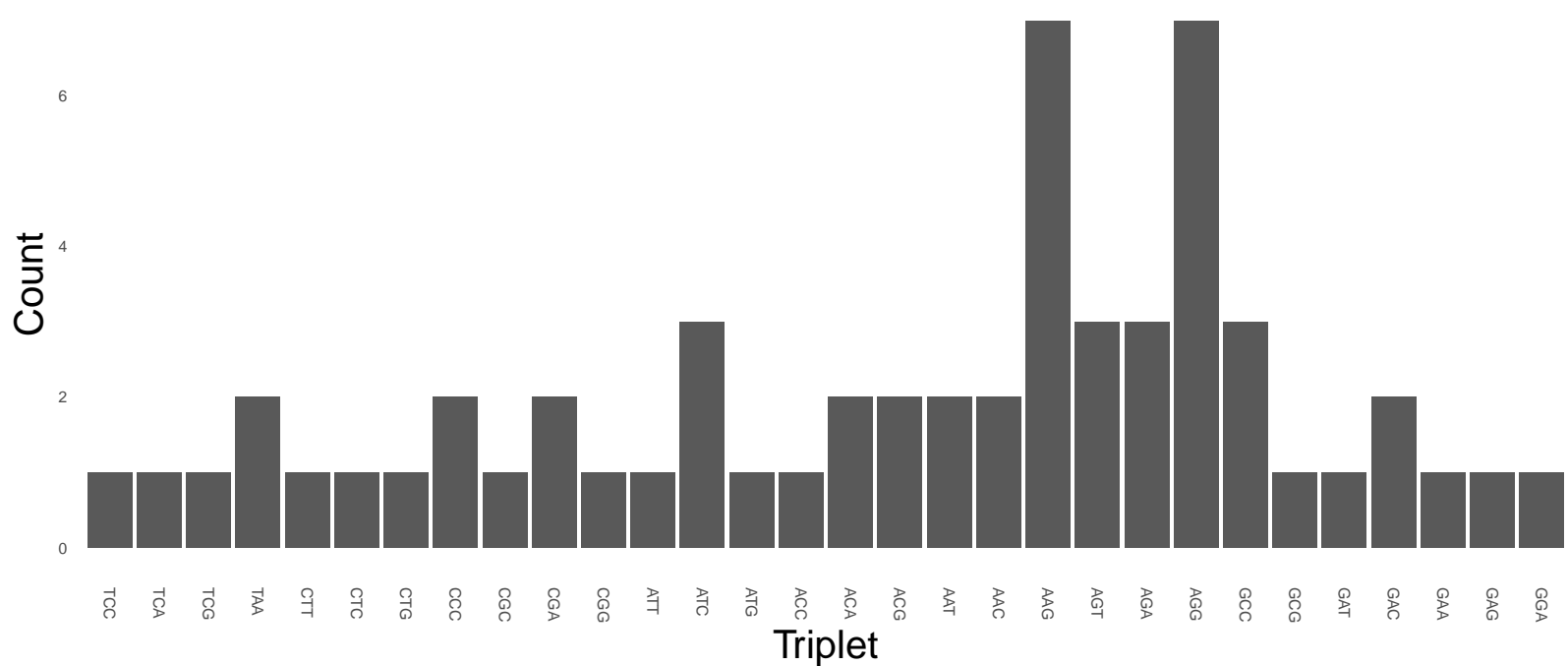
Gene TRBV7-7\*ap01\_C315T



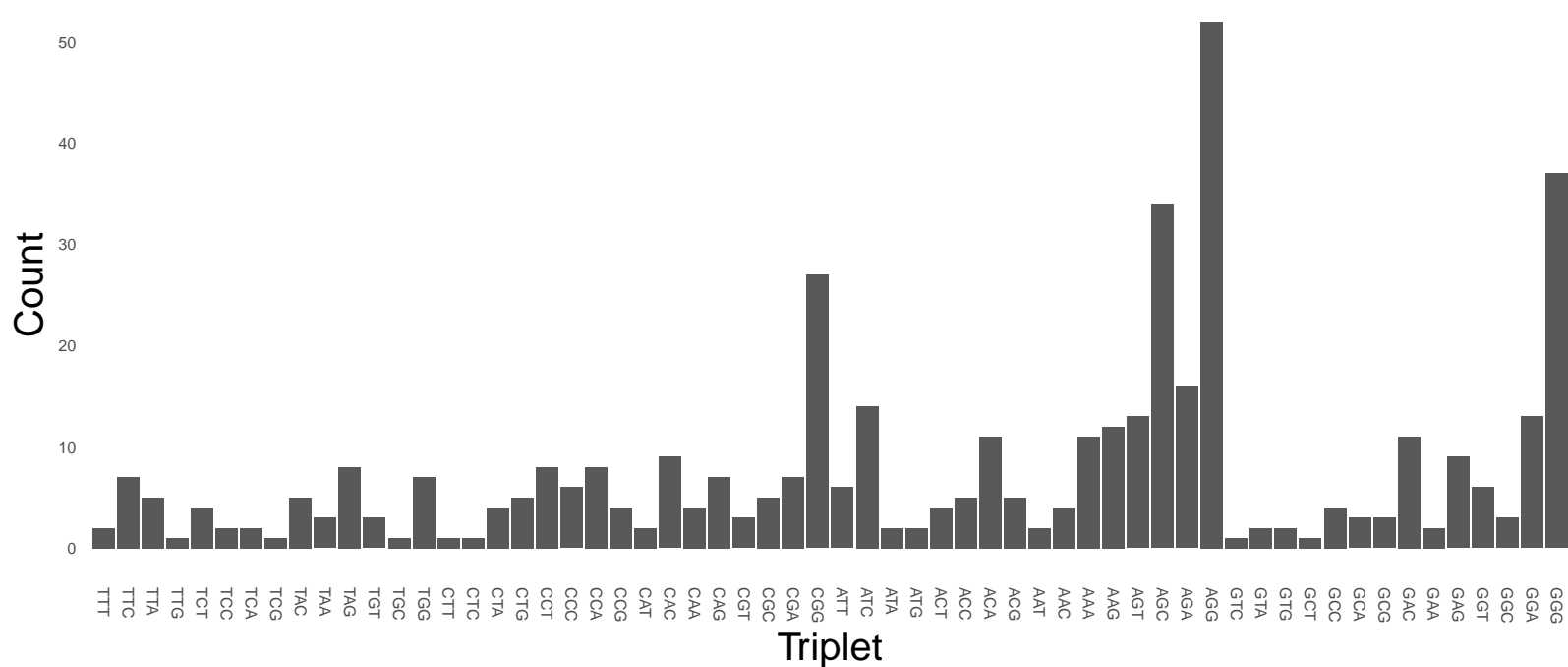
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

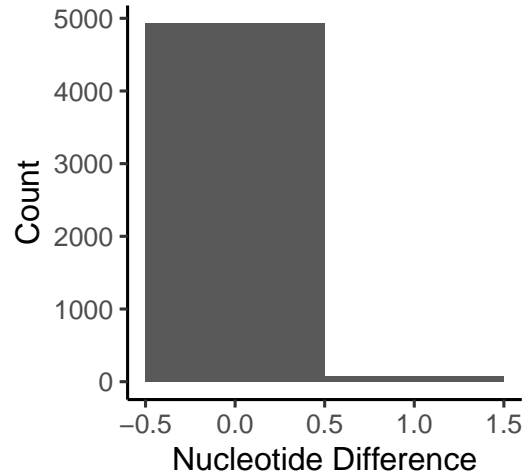


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



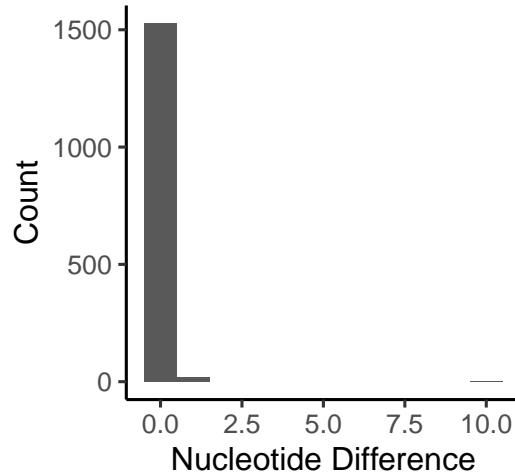
### TRBV20-1\*ap01

5012 sequences assigned  
4930 (98.4%) exact matches, in which:  
4845 unique CDR3  
13 unique J



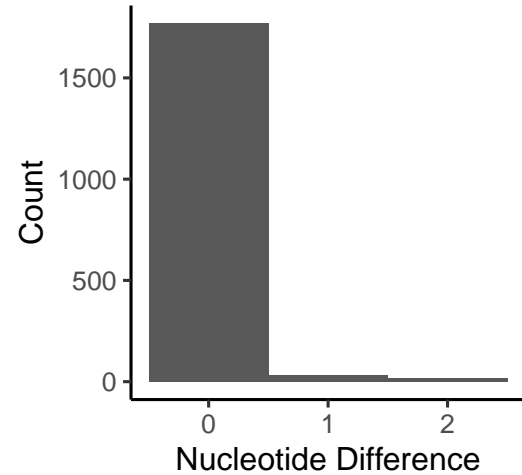
### TRBV10-2\*ap01

1547 sequences assigned  
1527 (98.7%) exact matches, in which:  
1504 unique CDR3  
13 unique J



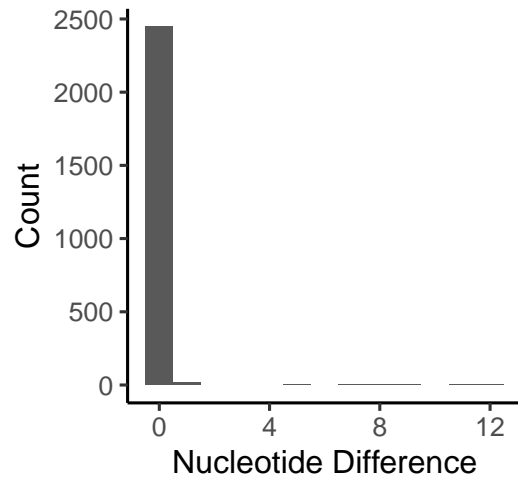
### TRBV13\*ap01

1819 sequences assigned  
1769 (97.3%) exact matches, in which:  
1730 unique CDR3  
13 unique J



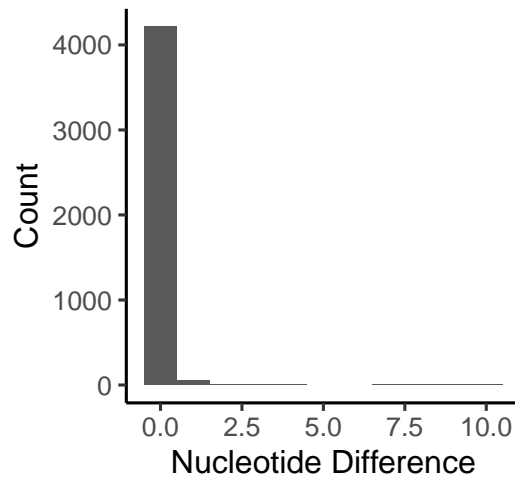
### TRBV10-1\*ap01

2471 sequences assigned  
2447 (99%) exact matches, in which:  
2410 unique CDR3  
13 unique J



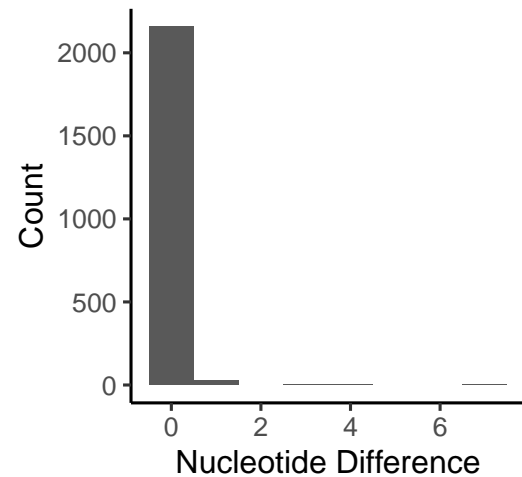
### TRBV10-3\*ap01

4269 sequences assigned  
4214 (98.7%) exact matches, in which:  
4125 unique CDR3  
13 unique J



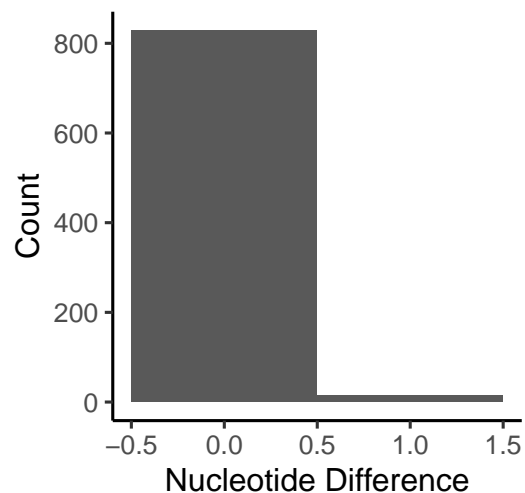
### TRBV14\*ap01

2188 sequences assigned  
2157 (98.6%) exact matches, in which:  
2116 unique CDR3  
13 unique J



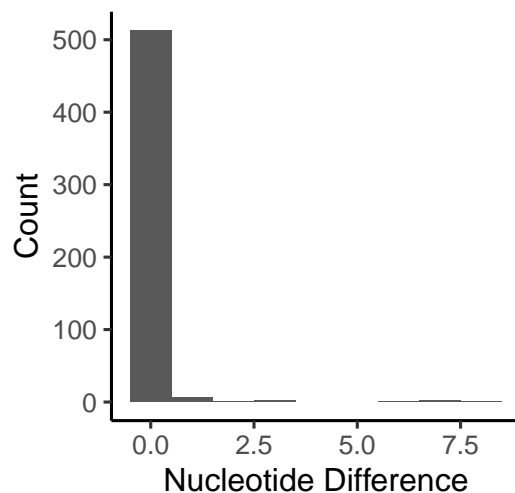
### TRBV20-1\*ap02

844 sequences assigned  
829 (98.2%) exact matches, in which:  
816 unique CDR3  
13 unique J



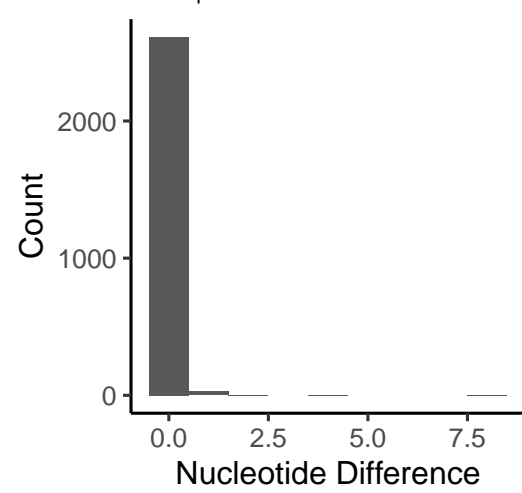
### TRBV1\*ap01

526 sequences assigned  
513 (97.5%) exact matches, in which:  
501 unique CDR3  
13 unique J



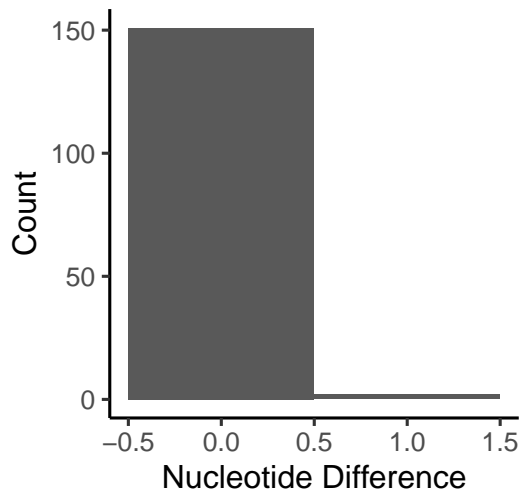
### TRBV15\*ap02

2642 sequences assigned  
2612 (98.9%) exact matches, in which:  
2540 unique CDR3  
13 unique J



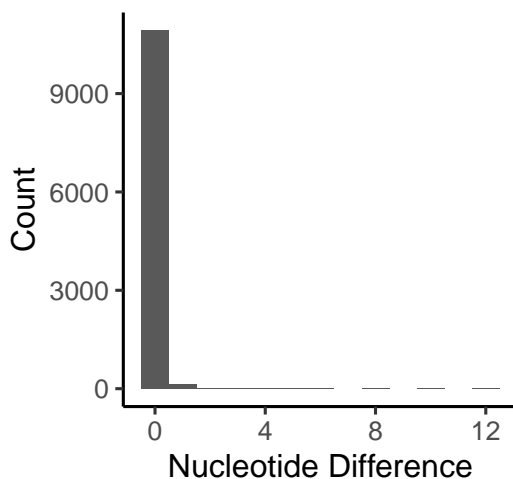
### TRBV16\*ap01

153 sequences assigned  
151 (98.7%) exact matches, in which:  
150 unique CDR3  
12 unique J



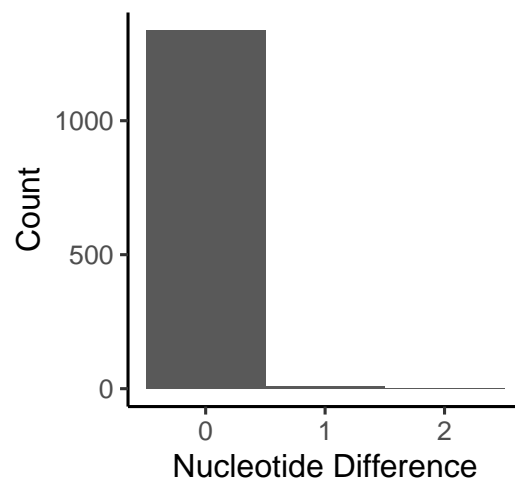
### TRBV19\*ap01

11088 sequences assigned  
10927 (98.5%) exact matches, in which:  
10741 unique CDR3  
13 unique J



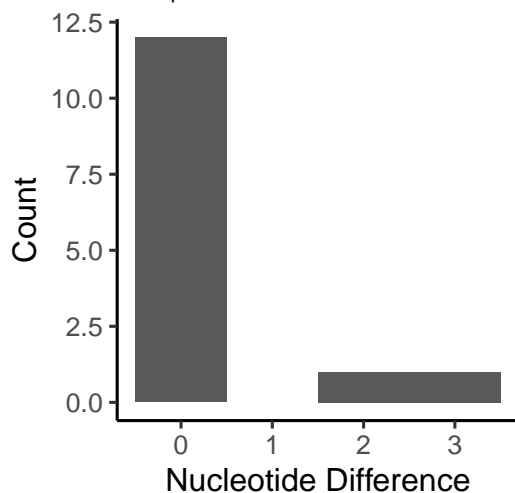
### TRBV28\*ap01

1349 sequences assigned  
1337 (99.1%) exact matches, in which:  
1316 unique CDR3  
13 unique J



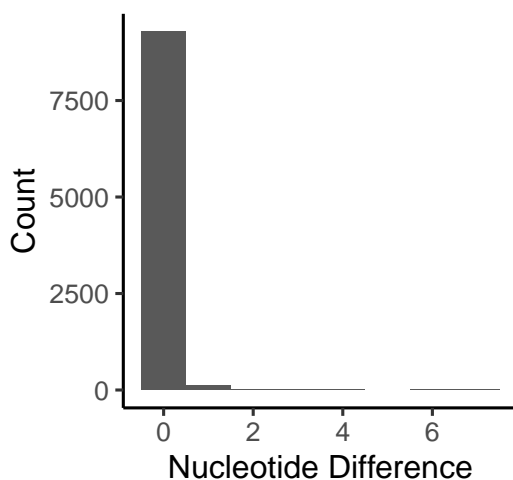
### TRBV17\*ap01

14 sequences assigned  
12 (85.7%) exact matches, in which:  
12 unique CDR3  
8 unique J



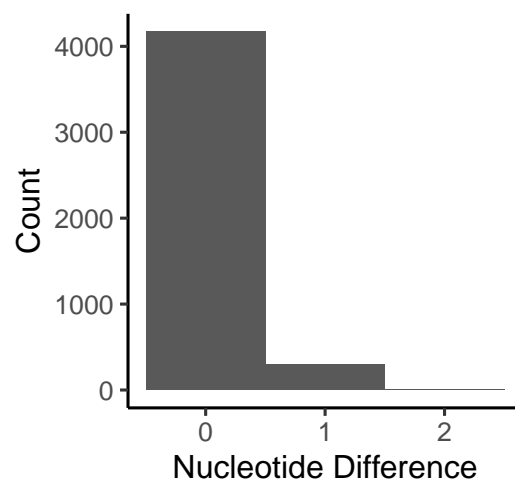
### TRBV2\*ap01

9410 sequences assigned  
9283 (98.7%) exact matches, in which:  
9147 unique CDR3  
13 unique J



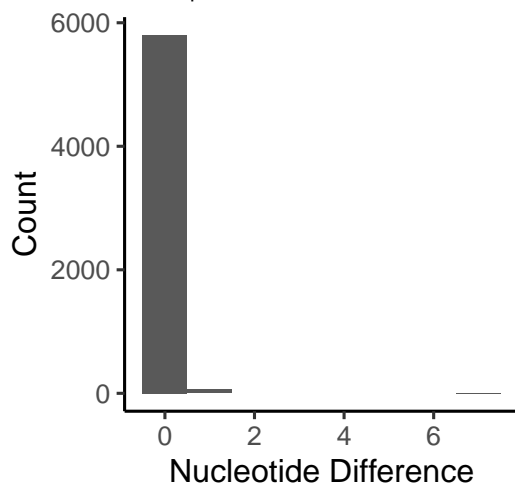
### TRBV30\*ap01

4476 sequences assigned  
4170 (93.2%) exact matches, in which:  
4131 unique CDR3  
13 unique J



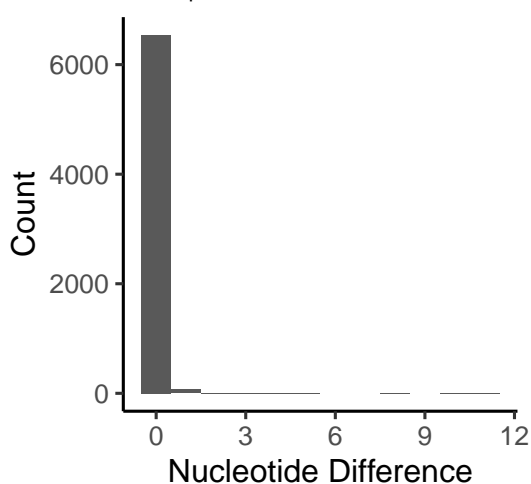
### TRBV18\*ap01

5865 sequences assigned  
5801 (98.9%) exact matches, in which:  
5712 unique CDR3  
13 unique J



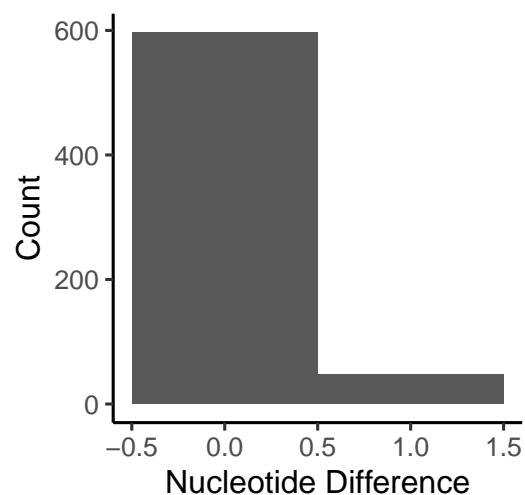
### TRBV27\*ap01

6628 sequences assigned  
6540 (98.7%) exact matches, in which:  
6421 unique CDR3  
13 unique J



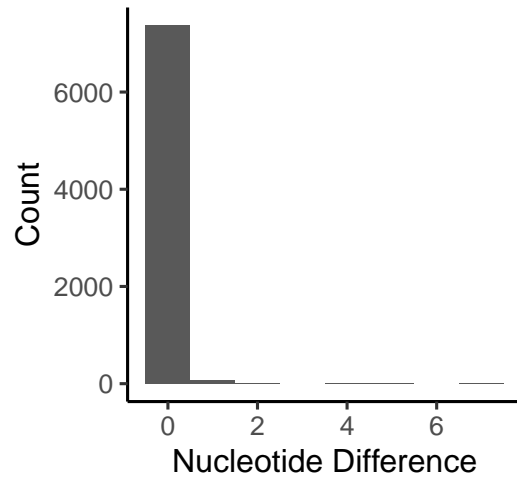
### TRBV30\*ap03

644 sequences assigned  
597 (92.7%) exact matches, in which:  
594 unique CDR3  
13 unique J



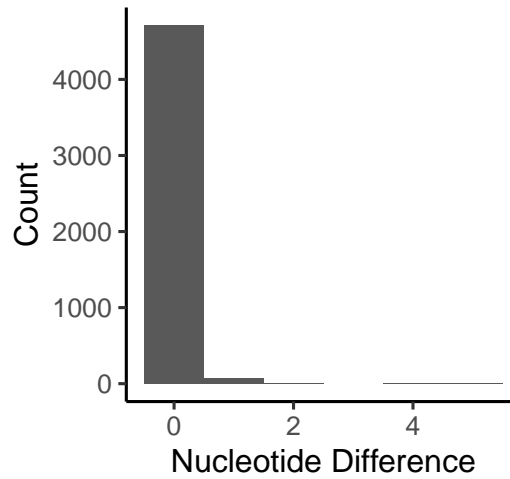
### TRBV9\*ap01

7458 sequences assigned  
7371 (98.8%) exact matches, in which:  
7243 unique CDR3  
13 unique J



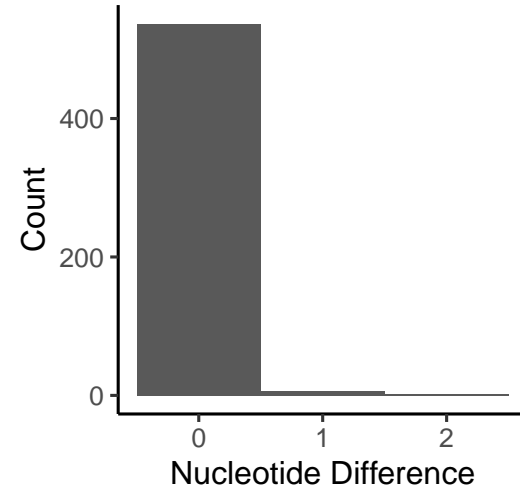
### TRBV11-2\*ap01

4781 sequences assigned  
4710 (98.5%) exact matches, in which:  
4621 unique CDR3  
13 unique J



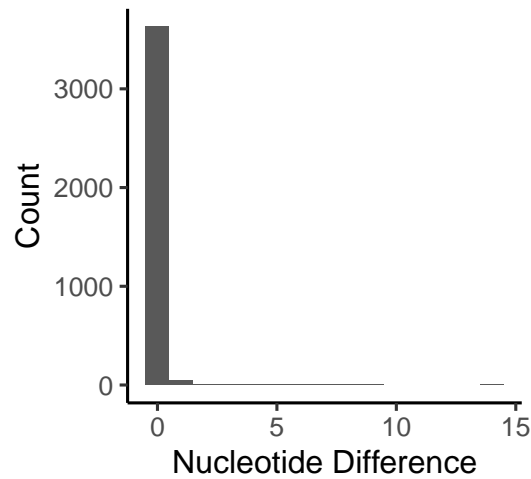
### TRBV12-2\*ap01

545 sequences assigned  
537 (98.5%) exact matches, in which:  
528 unique CDR3  
13 unique J



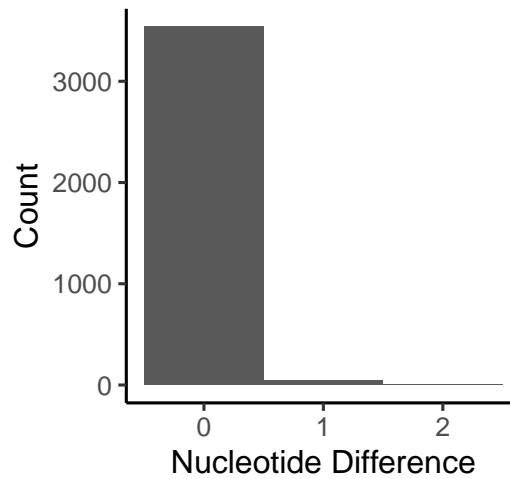
### TRBV21-1\*ap01

3694 sequences assigned  
3629 (98.2%) exact matches, in which:  
3568 unique CDR3  
13 unique J



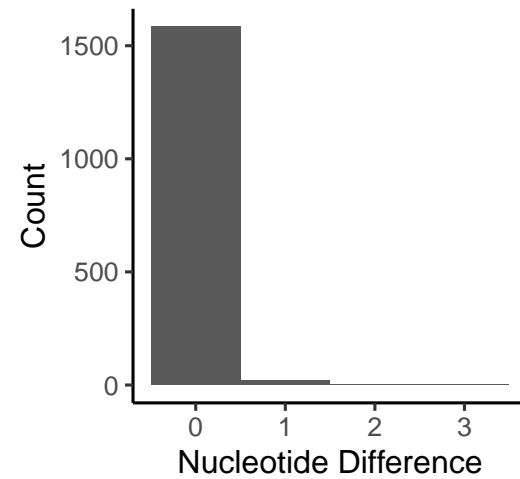
### TRBV11-3\*ap01

3587 sequences assigned  
3539 (98.7%) exact matches, in which:  
3462 unique CDR3  
13 unique J



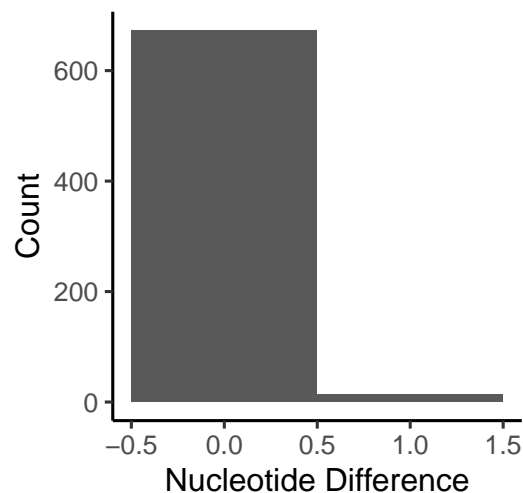
### TRBV12-5\*ap01

1606 sequences assigned  
1584 (98.6%) exact matches, in which:  
1551 unique CDR3  
13 unique J



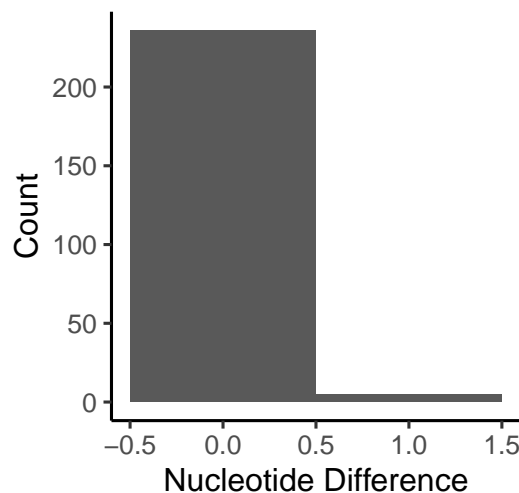
### TRBV11-1\*ap01

686 sequences assigned  
673 (98.1%) exact matches, in which:  
664 unique CDR3  
13 unique J



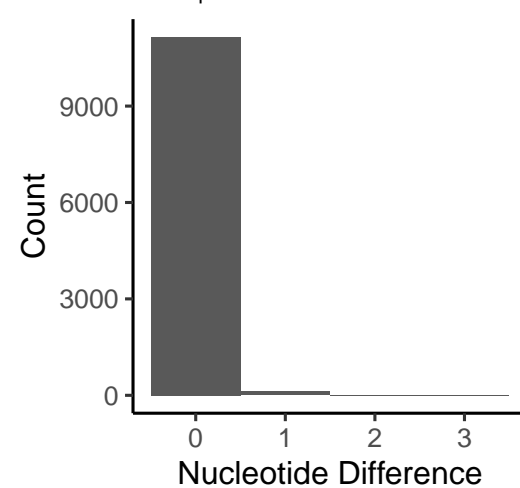
### TRBV12-1\*ap01

241 sequences assigned  
236 (97.9%) exact matches, in which:  
235 unique CDR3  
13 unique J



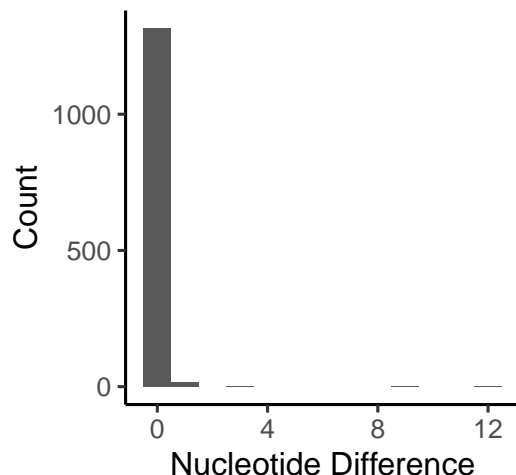
### TRBV12-34\*ap01

11277 sequences assigned  
11148 (98.9%) exact matches, in which:  
10951 unique CDR3  
13 unique J



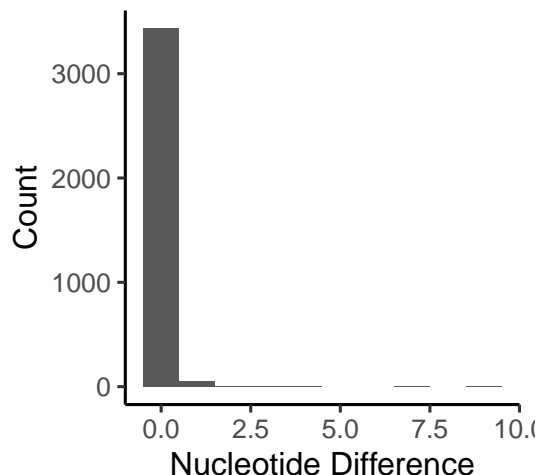
### TRBV23-1\*ap01

1336 sequences assigned  
1315 (98.4%) exact matches, in which:  
1287 unique CDR3  
13 unique J



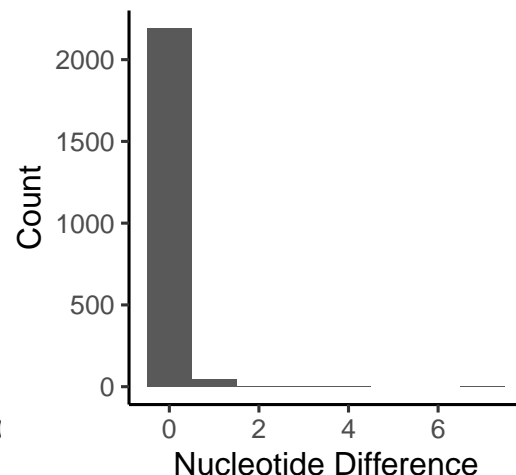
### TRBV24-1\*ap01

3498 sequences assigned  
3434 (98.2%) exact matches, in which:  
3408 unique CDR3  
13 unique J



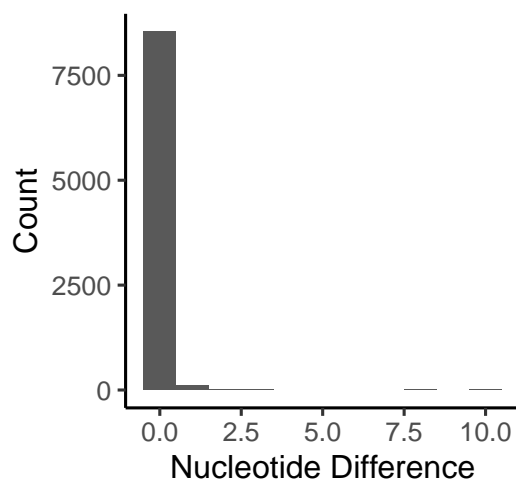
### TRBV25-1\*ap01

2243 sequences assigned  
2191 (97.7%) exact matches, in which:  
2149 unique CDR3  
13 unique J



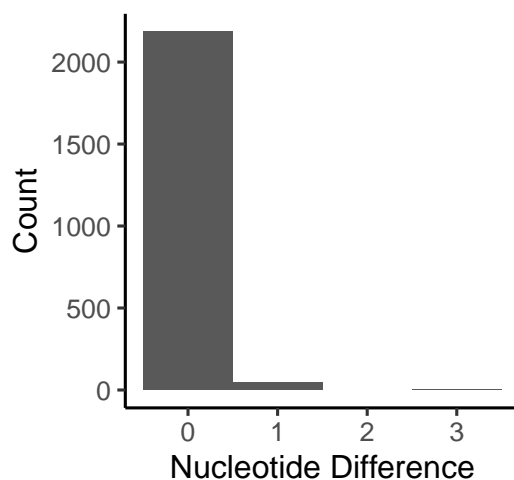
### TRBV3-12\*ap01

8653 sequences assigned  
8540 (98.7%) exact matches, in which:  
8392 unique CDR3  
13 unique J



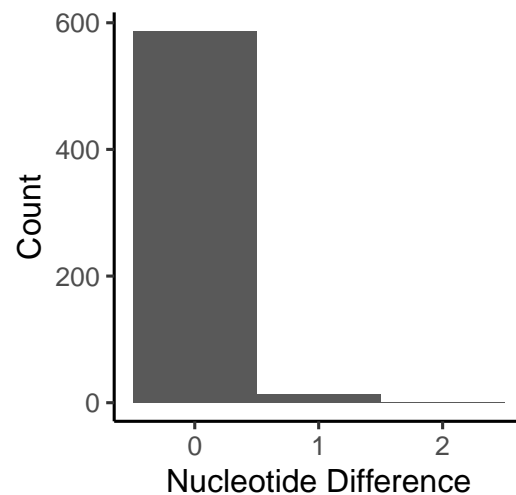
### TRBV4-2\*ap01

2230 sequences assigned  
2185 (98%) exact matches, in which:  
2158 unique CDR3  
13 unique J



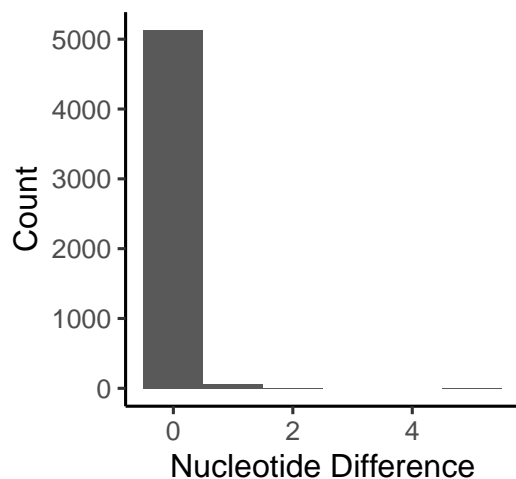
### TRBV5-3\*ap01

601 sequences assigned  
587 (97.7%) exact matches, in which:  
577 unique CDR3  
13 unique J



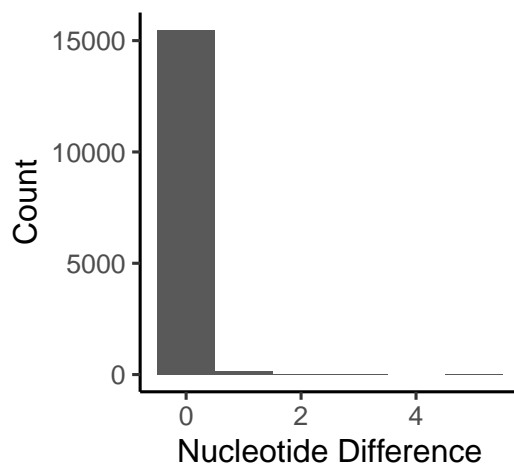
### TRBV4-1\*ap01

5192 sequences assigned  
5131 (98.8%) exact matches, in which:  
5043 unique CDR3  
13 unique J



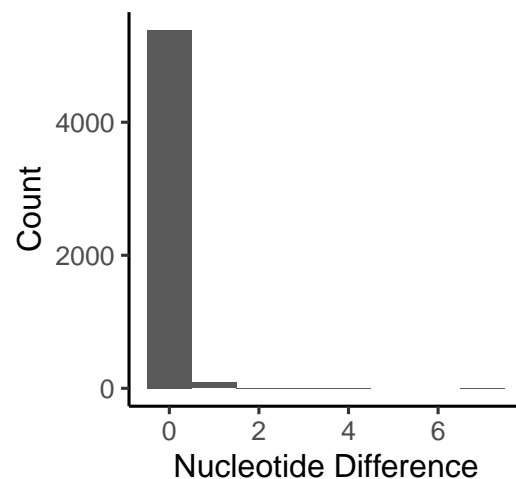
### TRBV5-1\*ap01

15640 sequences assigned  
15487 (99%) exact matches, in which:  
15193 unique CDR3  
13 unique J



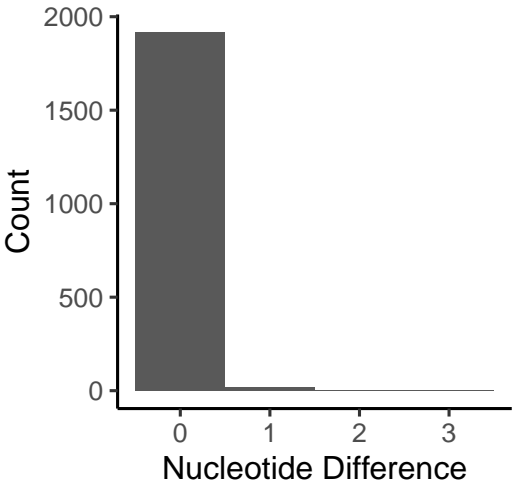
### TRBV5-4\*ap01

5478 sequences assigned  
5386 (98.3%) exact matches, in which:  
5294 unique CDR3  
13 unique J



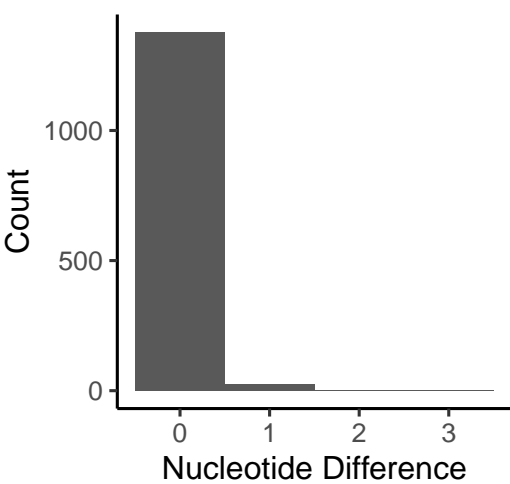
TRBV5-5\*ap01

1937 sequences assigned  
1916 (98.9%) exact matches, in which:  
1886 unique CDR3  
13 unique J



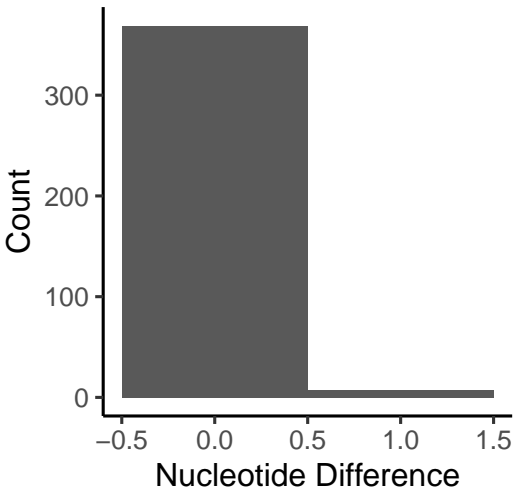
TRBV5-8\*ap01

1403 sequences assigned  
1377 (98.1%) exact matches, in which:  
1352 unique CDR3  
13 unique J



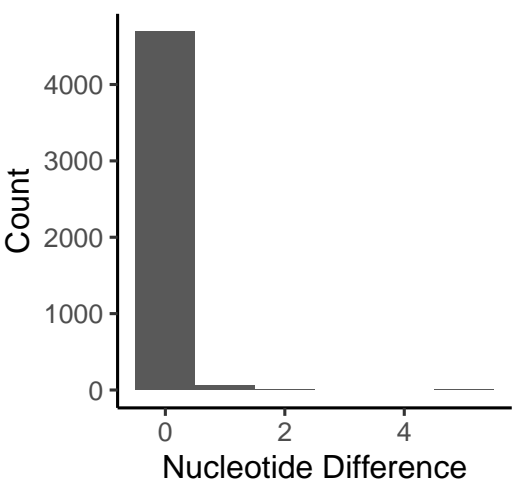
TRBV6-7\*ap01

376 sequences assigned  
369 (98.1%) exact matches, in which:  
363 unique CDR3  
13 unique J



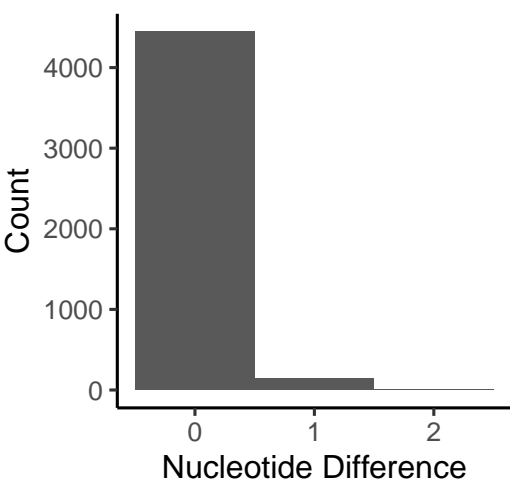
TRBV5-6\*ap01

4754 sequences assigned  
4691 (98.7%) exact matches, in which:  
4598 unique CDR3  
13 unique J



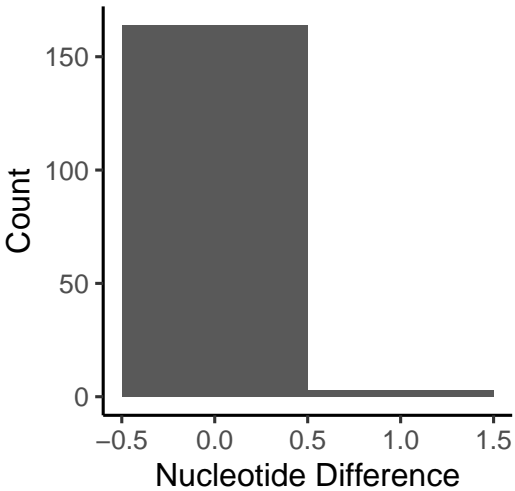
TRBV6-1\*ap01

4595 sequences assigned  
4445 (96.7%) exact matches, in which:  
4366 unique CDR3  
13 unique J



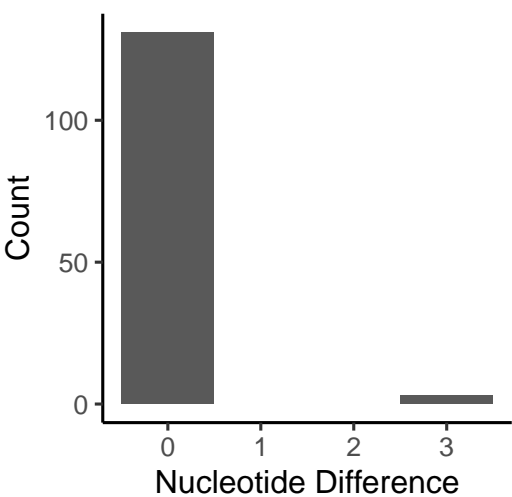
TRBV6-8\*ap01

167 sequences assigned  
164 (98.2%) exact matches, in which:  
161 unique CDR3  
13 unique J



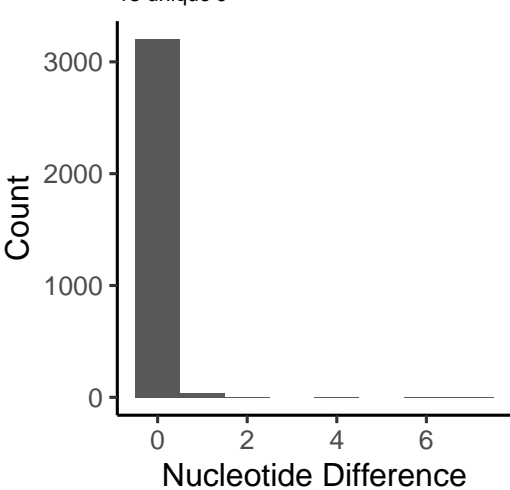
TRBV5-7\*ap01

134 sequences assigned  
131 (97.8%) exact matches, in which:  
129 unique CDR3  
13 unique J



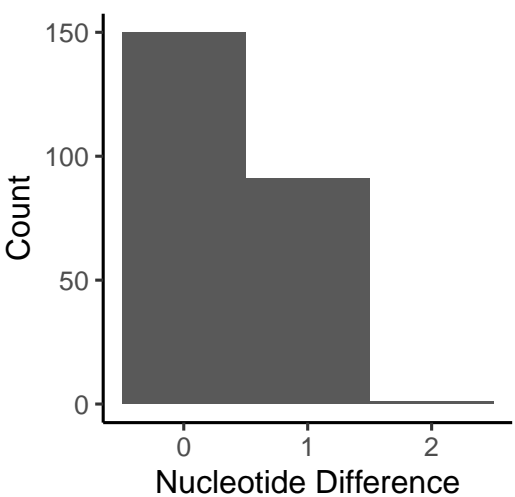
TRBV6-4\*ap01

3250 sequences assigned  
3204 (98.6%) exact matches, in which:  
3169 unique CDR3  
13 unique J



TRBV6-9\*ap01

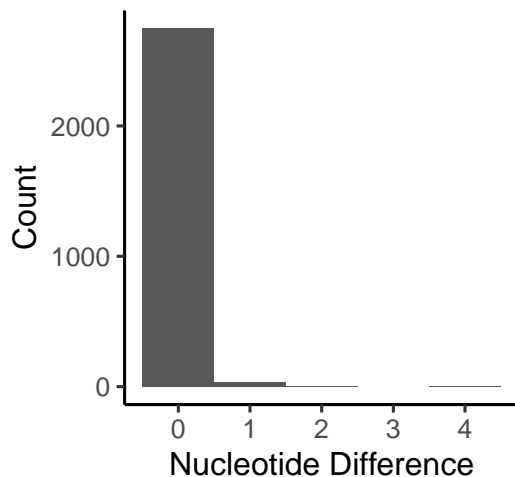
242 sequences assigned  
150 (62%) exact matches, in which:  
145 unique CDR3  
13 unique J





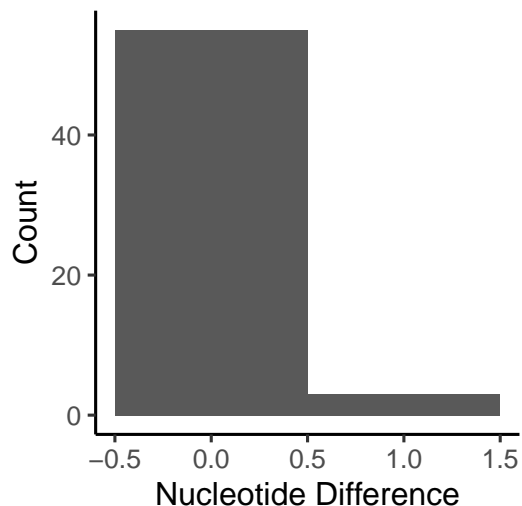
### TRBV6-23\*ap01

2789 sequences assigned  
2748 (98.5%) exact matches, in which:  
2700 unique CDR3  
13 unique J



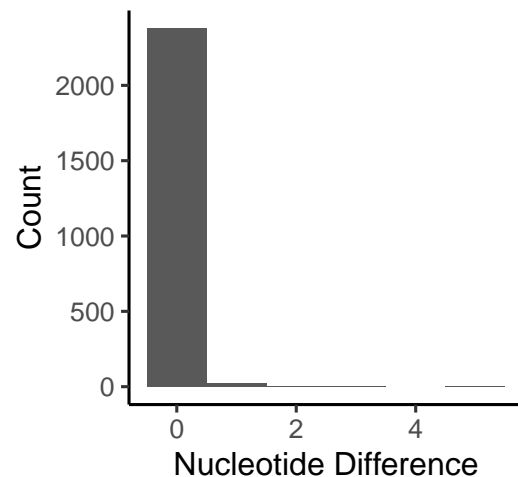
### TRBV7-1\*ap01\_G291C\_T

58 sequences assigned  
55 (94.8%) exact matches, in which:  
55 unique CDR3  
12 unique J



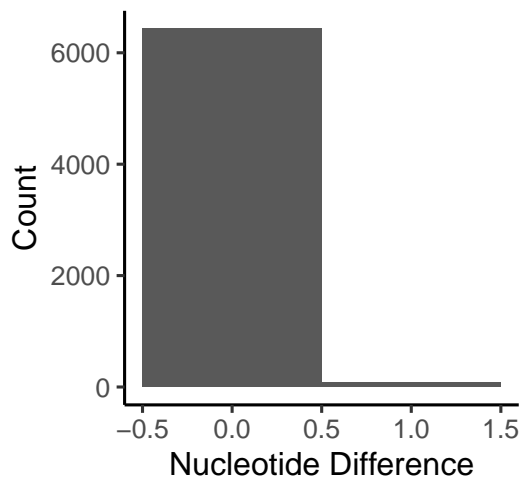
### TRBV7-3\*ap01

2406 sequences assigned  
2378 (98.8%) exact matches, in which:  
2336 unique CDR3  
13 unique J



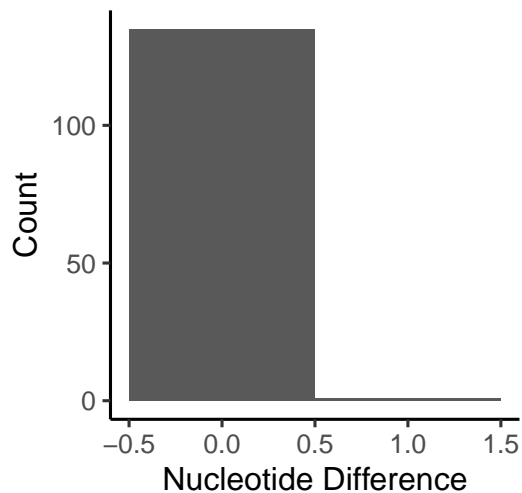
### TRBV6-56\*ap01

6511 sequences assigned  
6432 (98.8%) exact matches, in which:  
6297 unique CDR3  
13 unique J



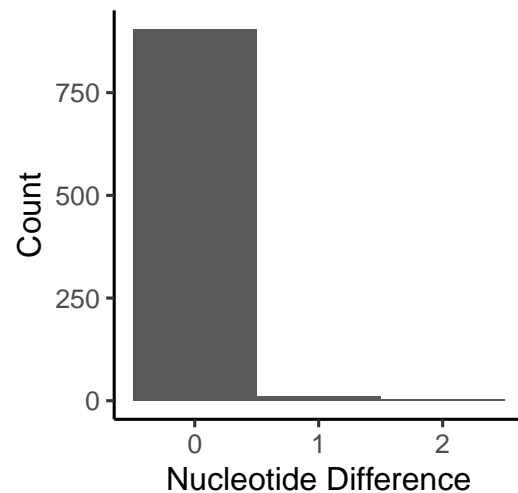
### TRBV7-1\*ap01\_G291C\_

136 sequences assigned  
135 (99.3%) exact matches, in which:  
133 unique CDR3  
13 unique J



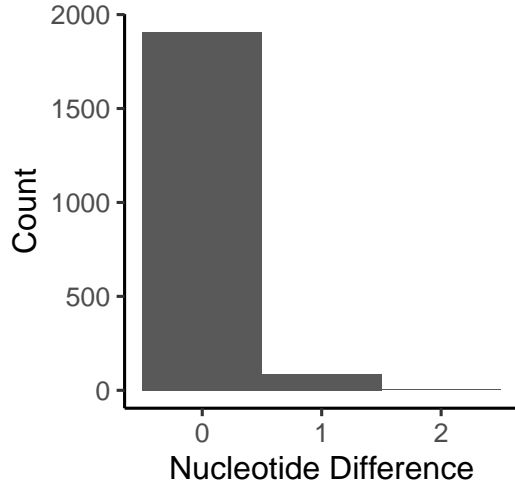
### TRBV7-3\*ap03

920 sequences assigned  
905 (98.4%) exact matches, in which:  
892 unique CDR3  
13 unique J



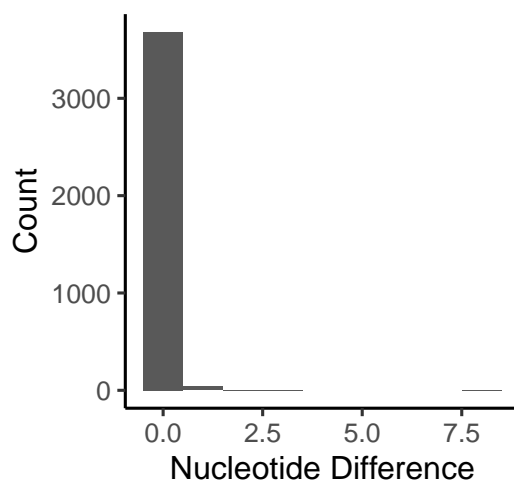
### TRBV6-56\*ap02

1999 sequences assigned  
1907 (95.4%) exact matches, in which:  
1878 unique CDR3  
13 unique J



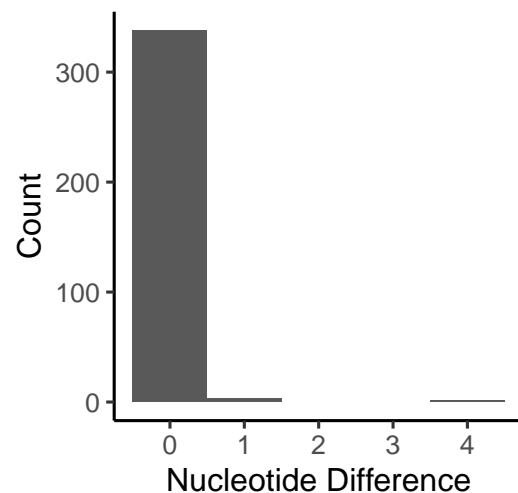
### TRBV7-2\*ap01

3726 sequences assigned  
3681 (98.8%) exact matches, in which:  
3619 unique CDR3  
13 unique J



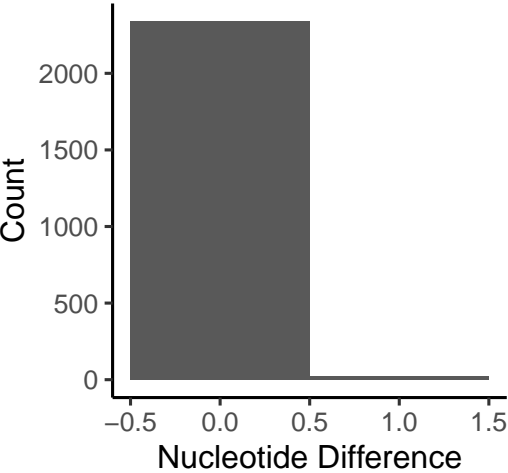
### TRBV7-4\*ap01

342 sequences assigned  
338 (98.8%) exact matches, in which:  
328 unique CDR3  
13 unique J



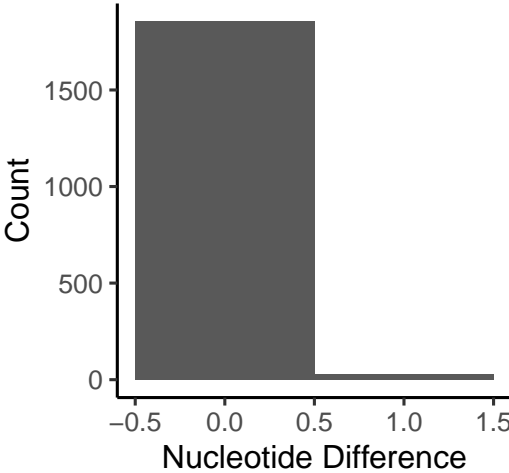
TRBV7-6\*ap01

2363 sequences assigned  
2339 (99%) exact matches, in which:  
2307 unique CDR3  
13 unique J



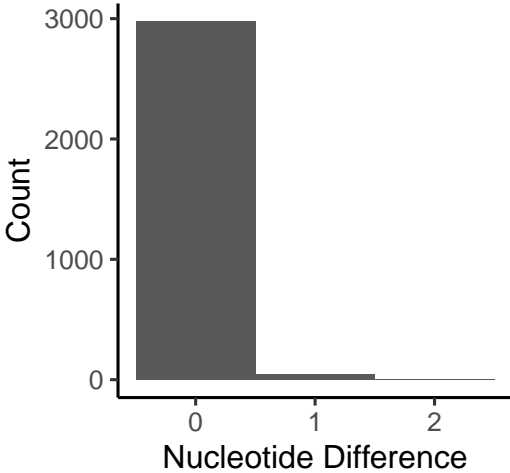
TRBV7-8\*ap01

1881 sequences assigned  
1855 (98.6%) exact matches, in which:  
1816 unique CDR3  
13 unique J



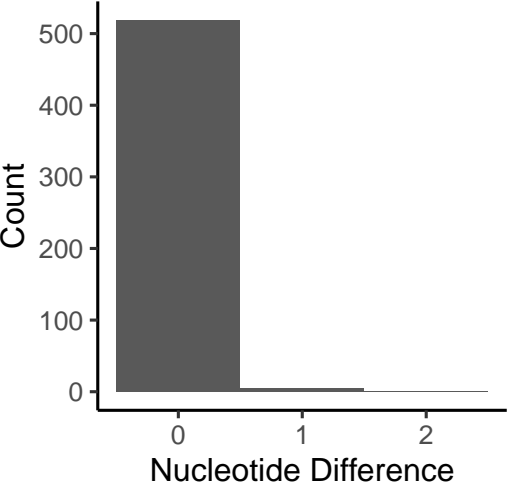
TRBV29-1\*ap01

3022 sequences assigned  
2977 (98.5%) exact matches, in which:  
2948 unique CDR3  
13 unique J



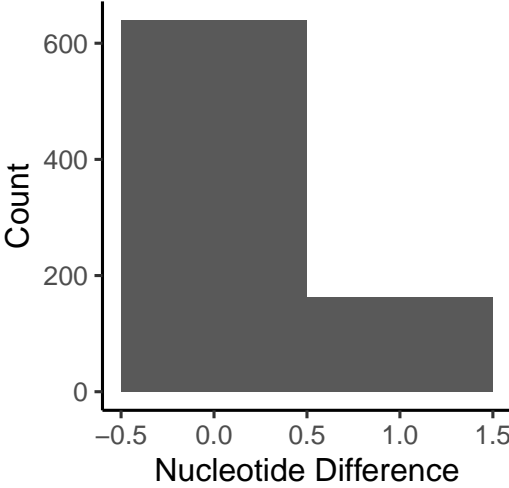
TRBV7-7\*ap01

525 sequences assigned  
519 (98.9%) exact matches, in which:  
516 unique CDR3  
13 unique J



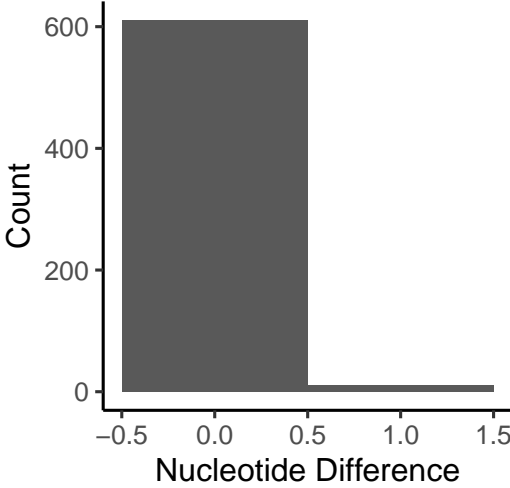
TRBV7-8\*ap03

802 sequences assigned  
640 (79.8%) exact matches, in which:  
629 unique CDR3  
13 unique J



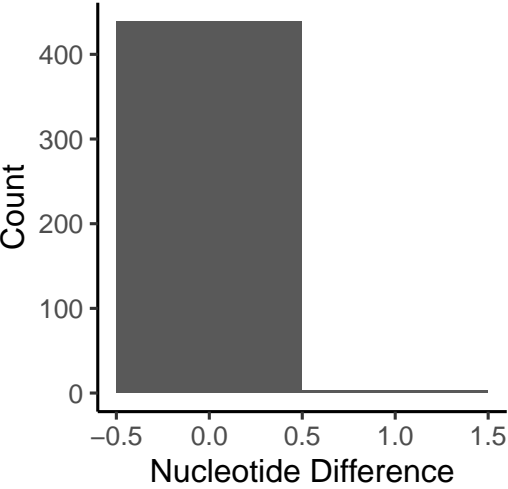
TRBV29-1\*ap02

621 sequences assigned  
611 (98.4%) exact matches, in which:  
603 unique CDR3  
13 unique J



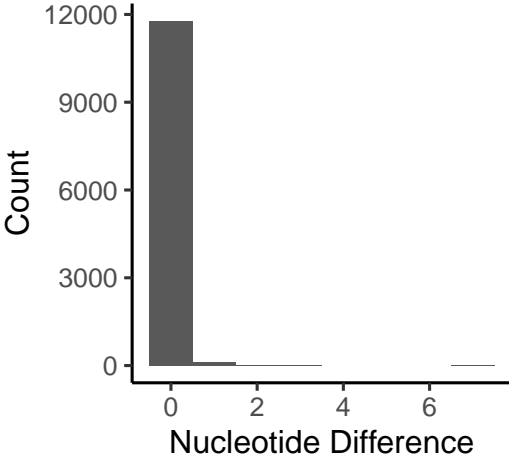
TRBV7-7\*ap01\_C315T

442 sequences assigned  
439 (99.3%) exact matches, in which:  
435 unique CDR3  
13 unique J

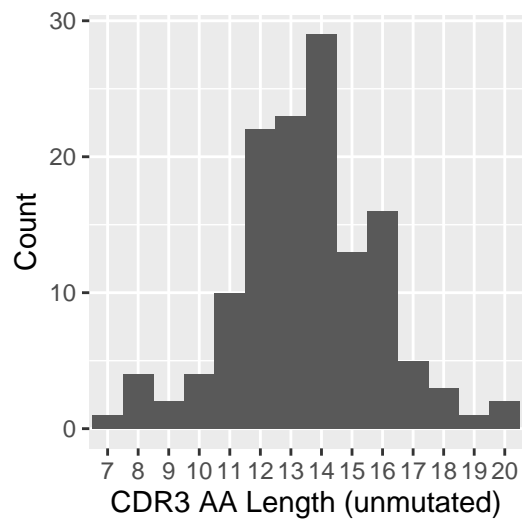


TRBV7-9\*ap01

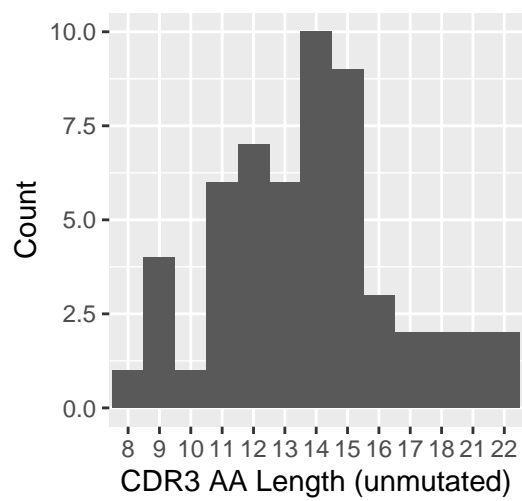
11895 sequences assigned  
11783 (99.1%) exact matches, in which:  
11615 unique CDR3  
13 unique J



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



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

