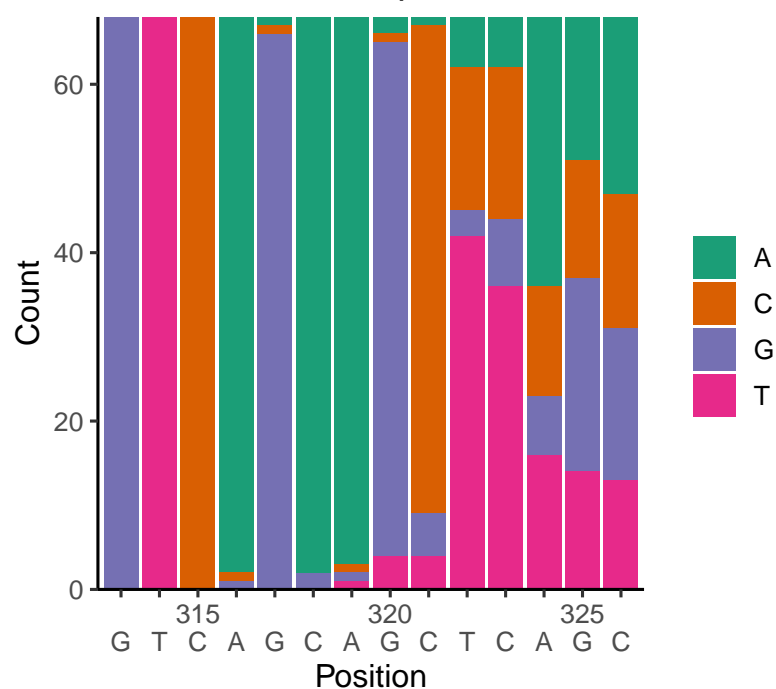
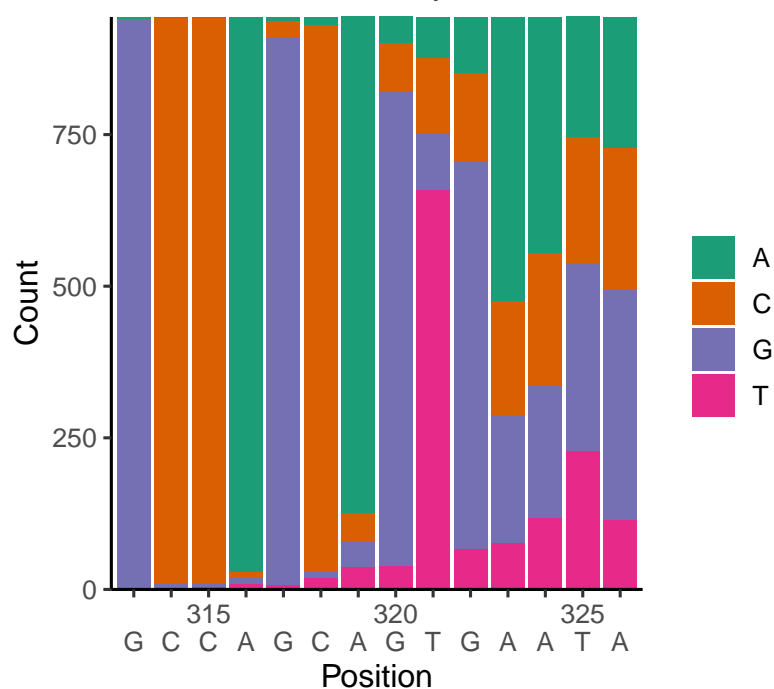


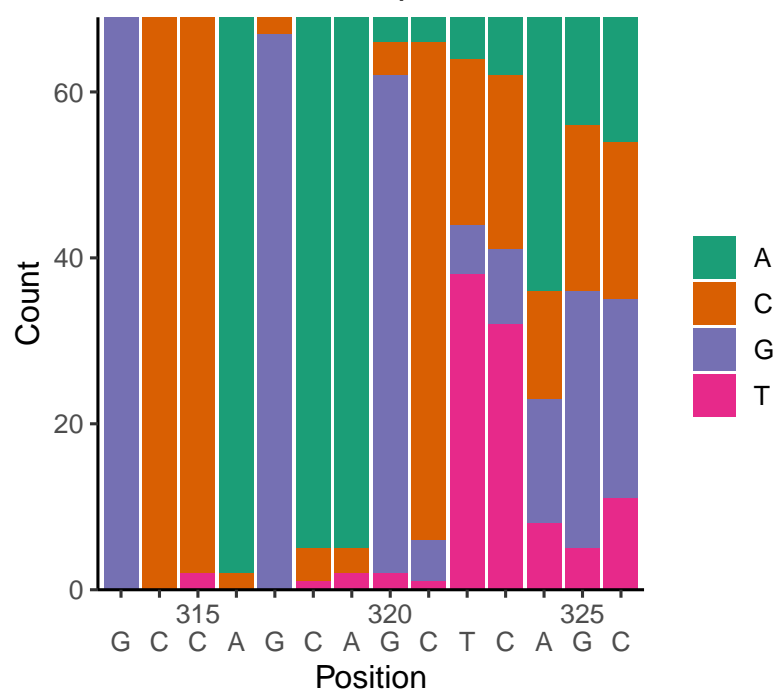
Gene TRBV7-1\*ap01\_G291C\_T296C\_C3



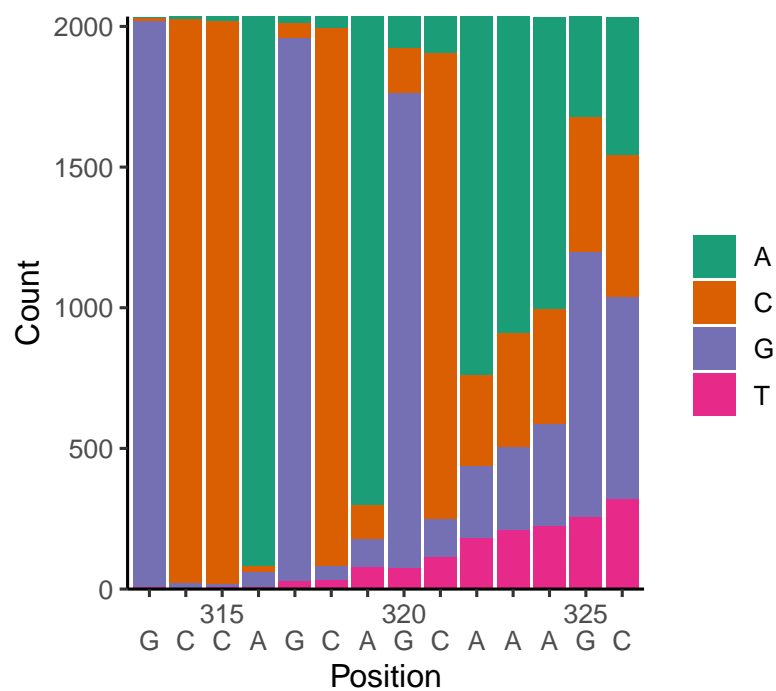
Gene TRBV25-1\*ap01\_A293G



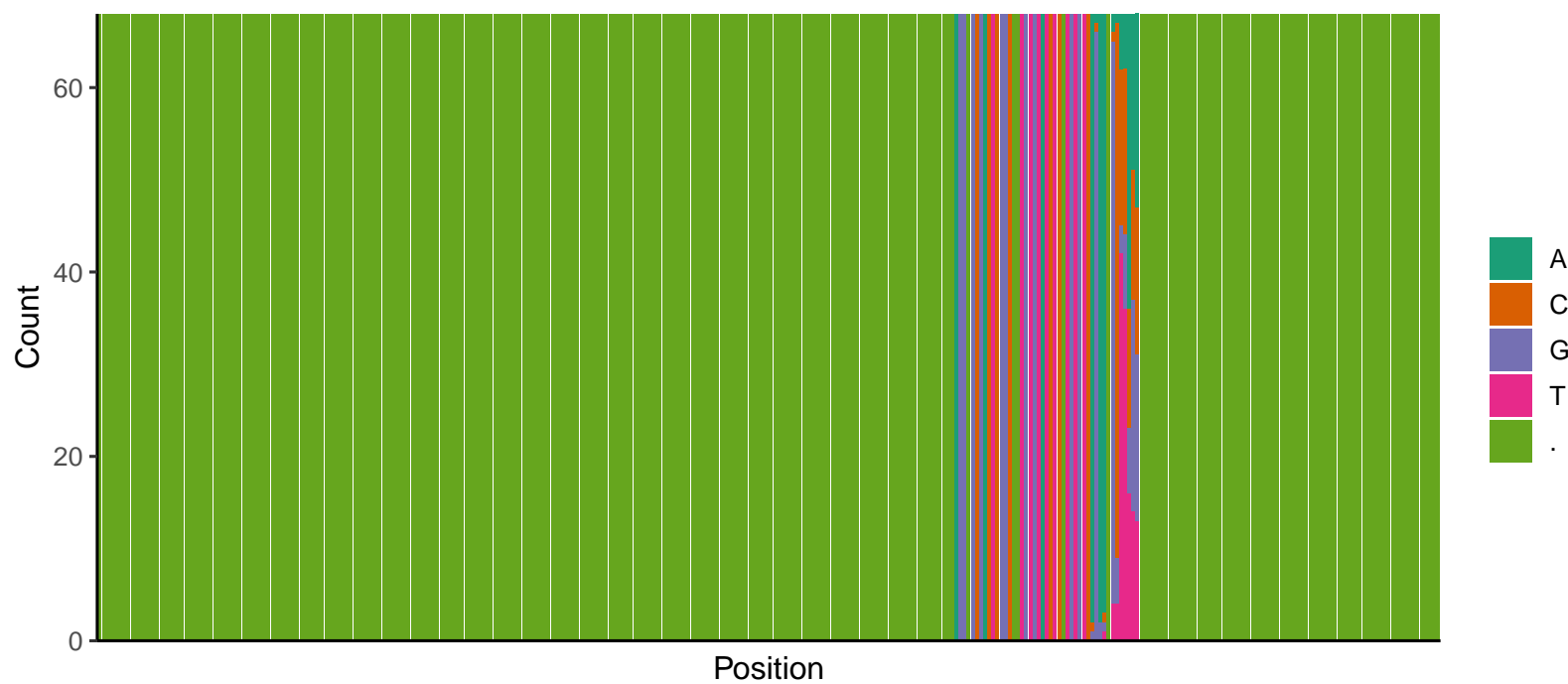
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV21-1\*ap01\_T307C



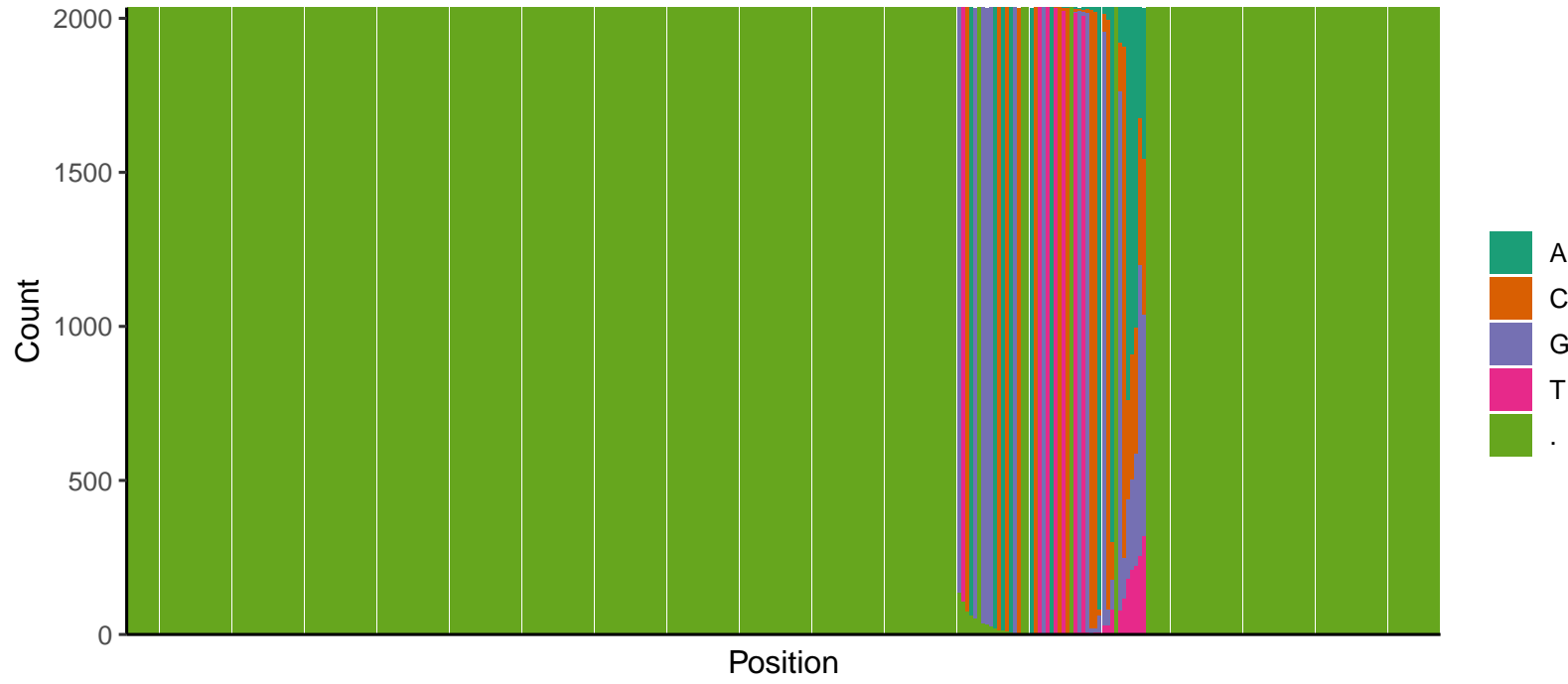
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-1\*ap01\_G291C\_T296C



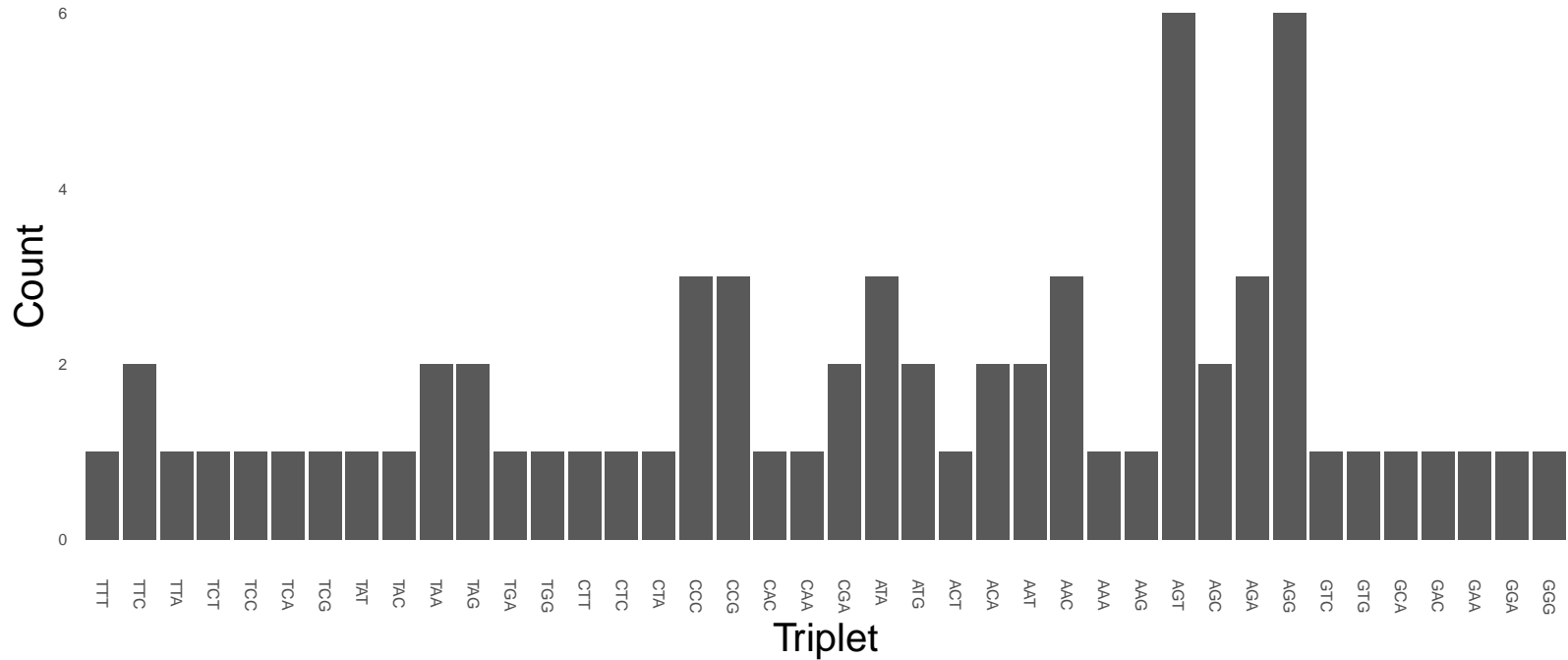
Gene TRBV21-1\*ap01\_T307C



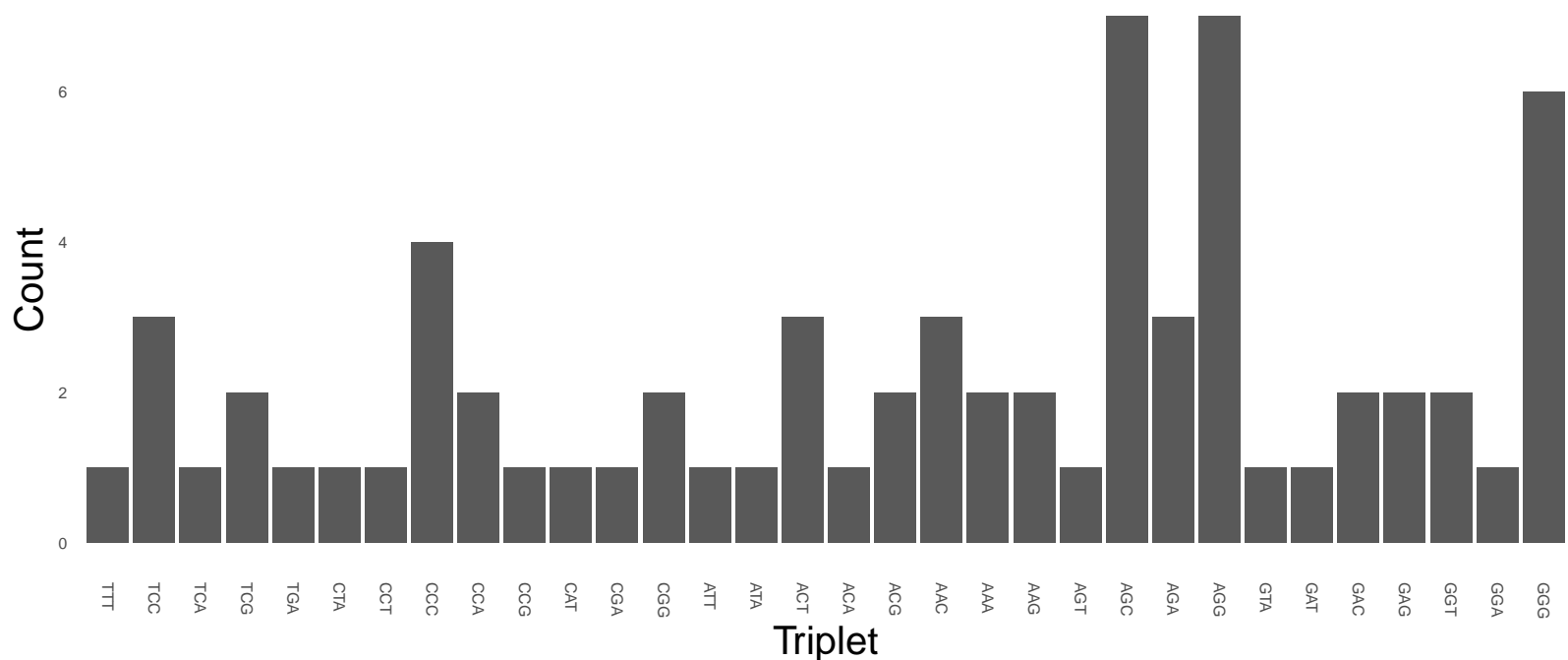
Gene TRBV25-1\*ap01\_A293G



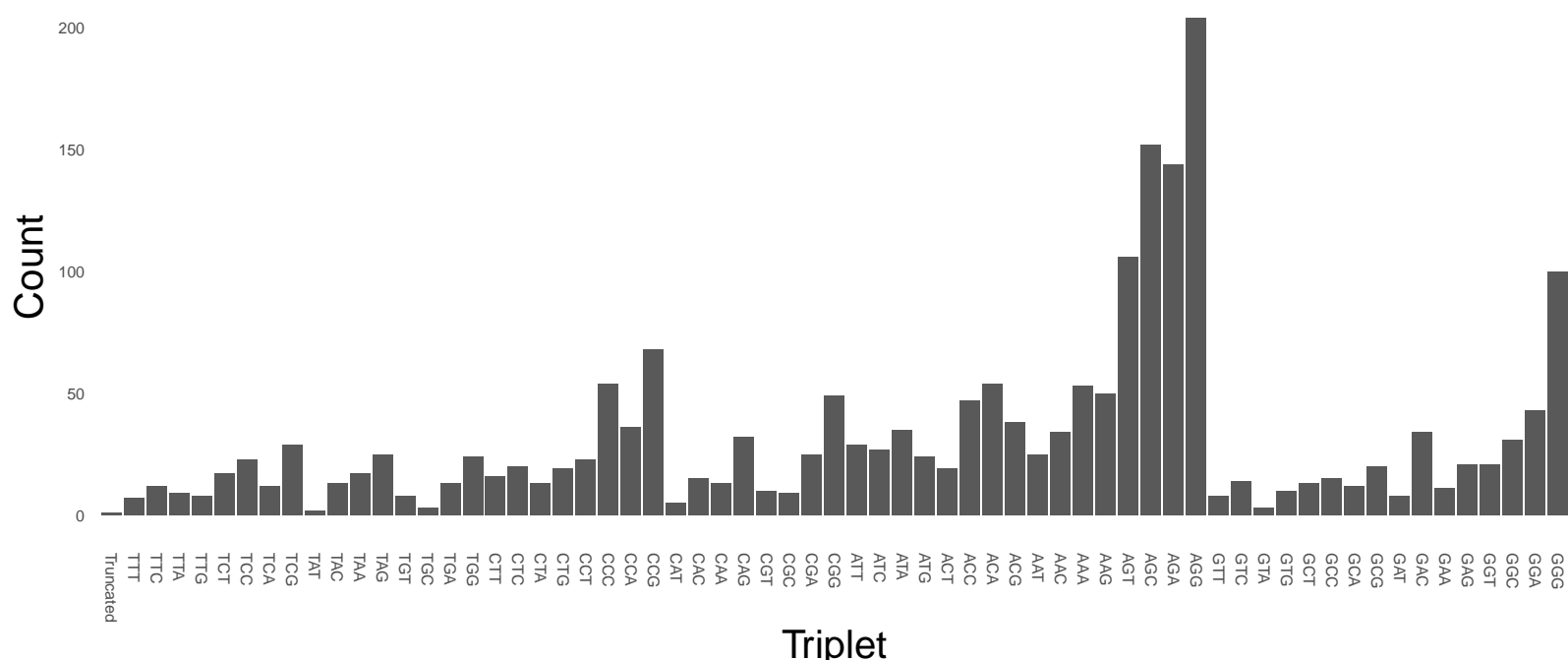
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



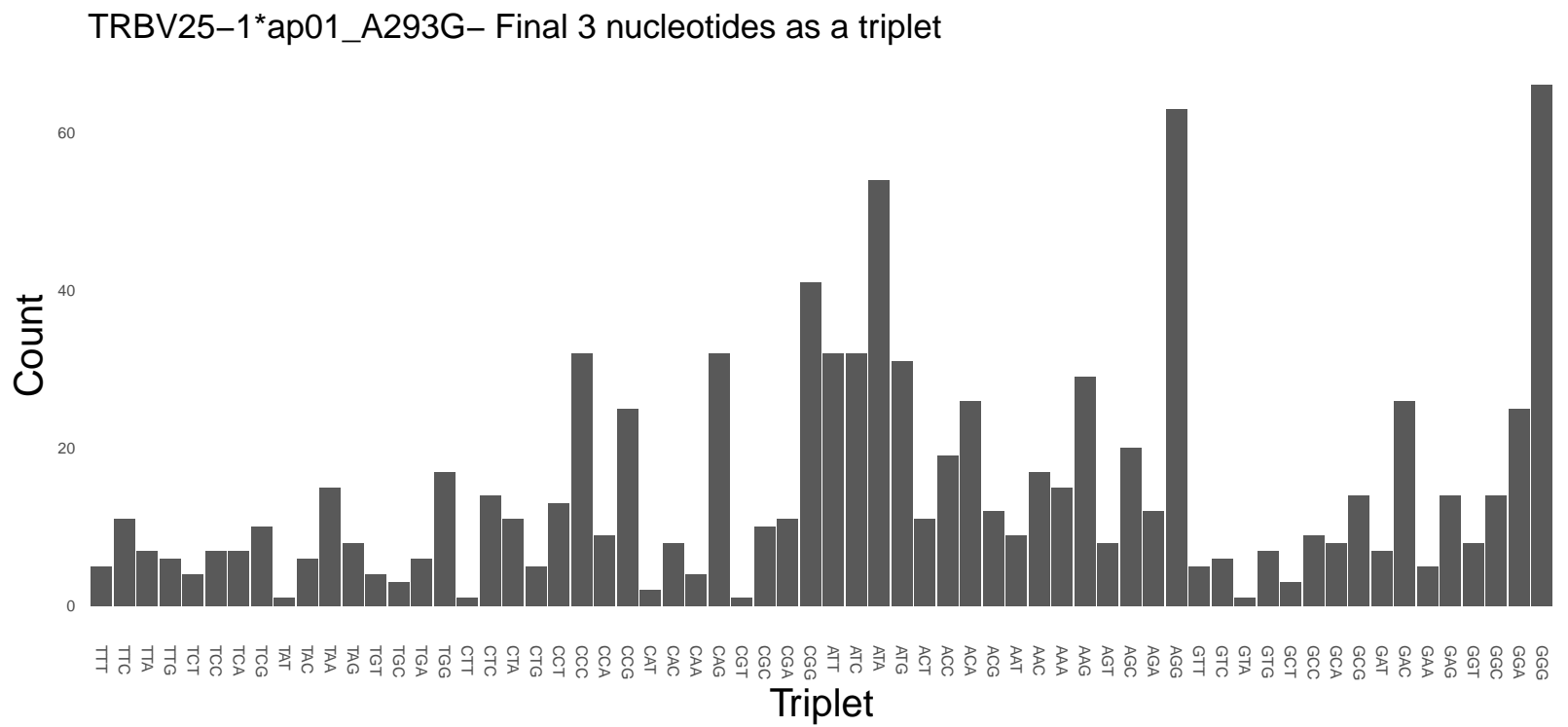
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



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

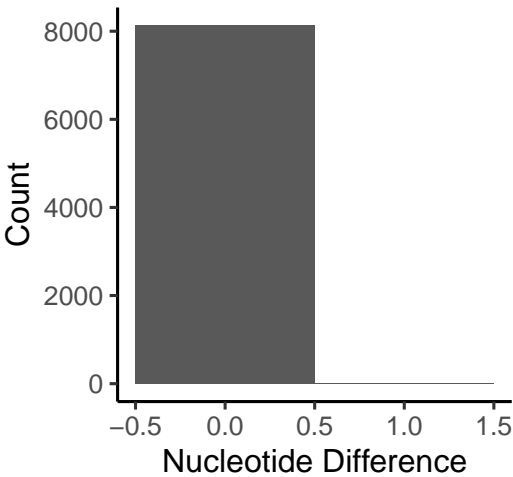


TRBV25-1\*ap01\_A293G- Final 3 nucleotides as a triplet



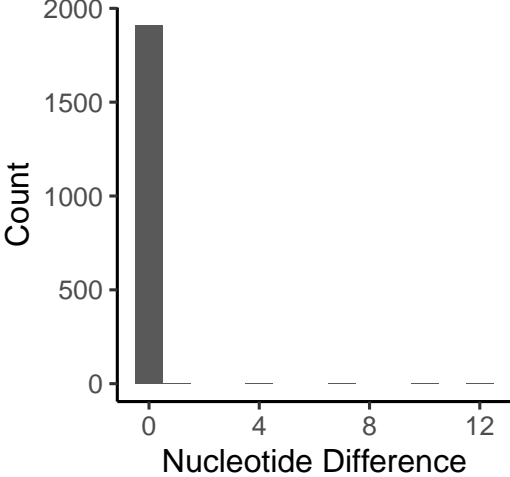
TRBV20-1\*ap01

8148 sequences assigned  
8132 (99.8%) exact matches, in which:  
8129 unique CDR3  
13 unique J



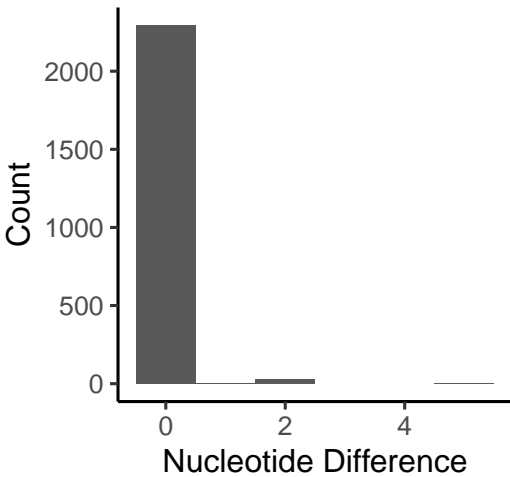
TRBV10-2\*ap01

1914 sequences assigned  
1909 (99.7%) exact matches, in which:  
1907 unique CDR3  
13 unique J



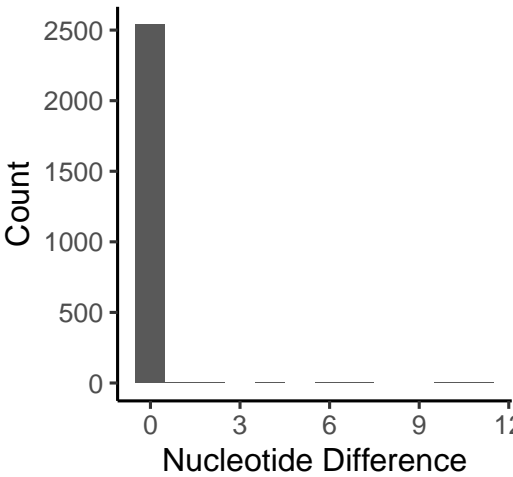
TRBV13\*ap01

2329 sequences assigned  
2293 (98.5%) exact matches, in which:  
2292 unique CDR3  
13 unique J



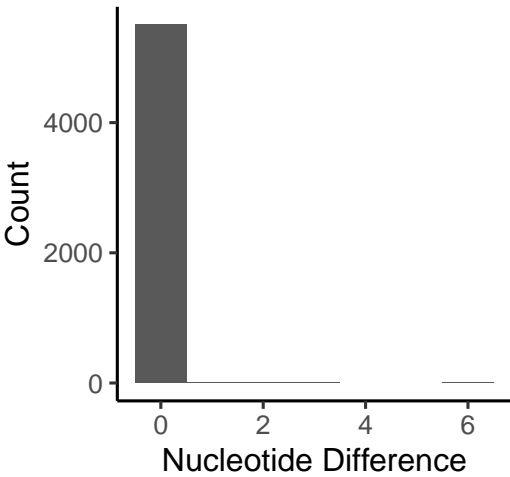
TRBV10-1\*ap01

2553 sequences assigned  
2538 (99.4%) exact matches, in which:  
2537 unique CDR3  
13 unique J



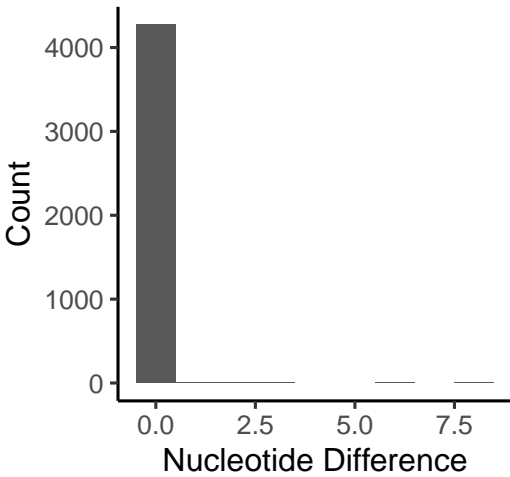
TRBV10-3\*ap01

5515 sequences assigned  
5504 (99.8%) exact matches, in which:  
5502 unique CDR3  
13 unique J



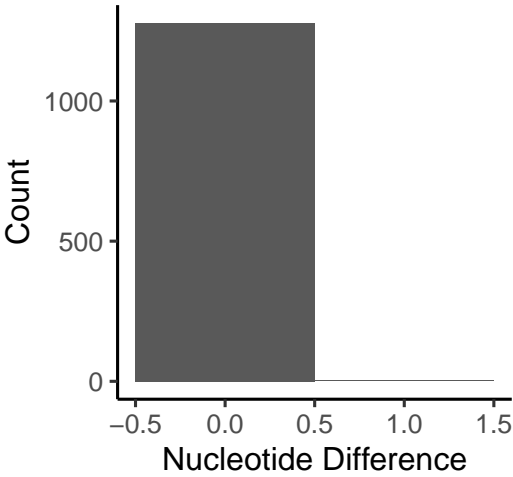
TRBV14\*ap01

4280 sequences assigned  
4272 (99.8%) exact matches, in which:  
4272 unique CDR3  
13 unique J



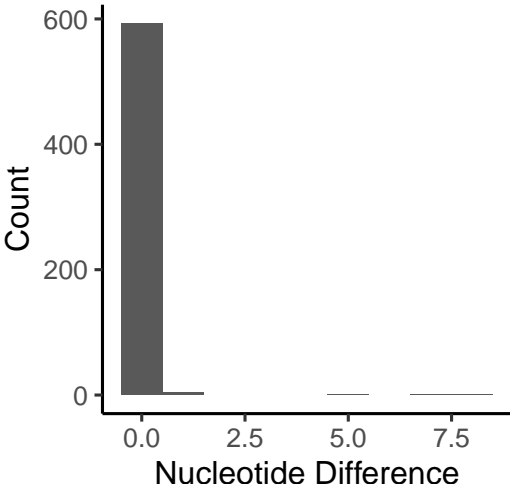
TRBV20-1\*ap02

1281 sequences assigned  
1278 (99.8%) exact matches, in which:  
1278 unique CDR3  
13 unique J



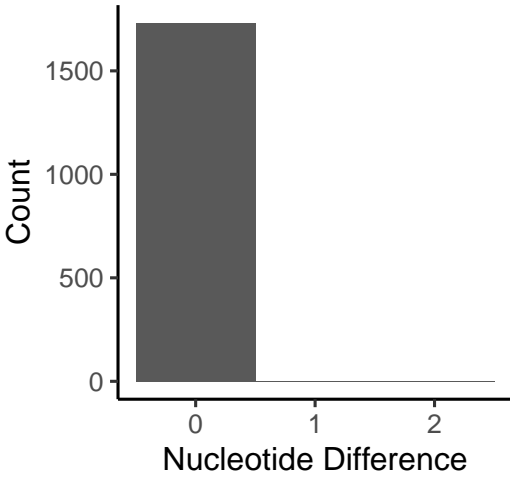
TRBV1\*ap01

600 sequences assigned  
593 (98.8%) exact matches, in which:  
593 unique CDR3  
13 unique J



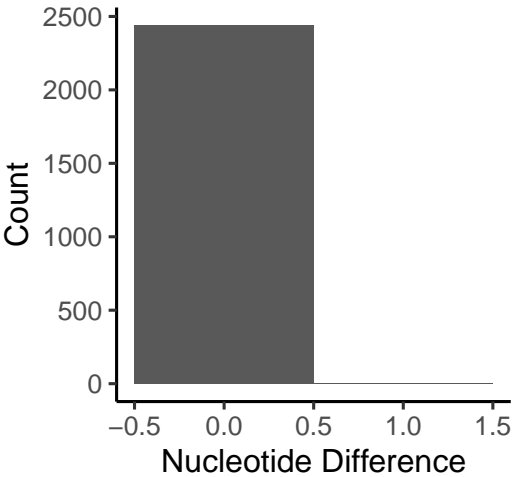
TRBV15\*ap01

1733 sequences assigned  
1731 (99.9%) exact matches, in which:  
1730 unique CDR3  
13 unique J



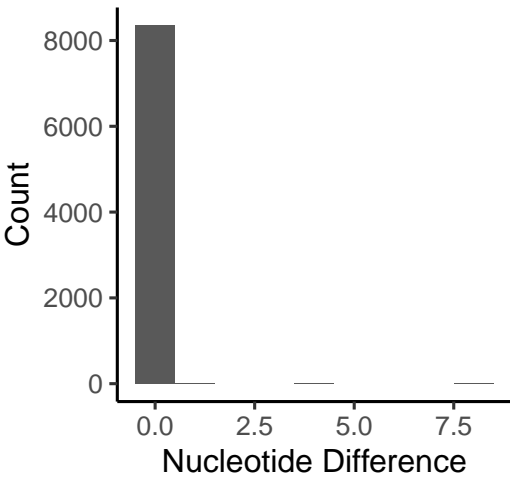
TRBV15\*ap02

2444 sequences assigned  
2439 (99.8%) exact matches, in which:  
2437 unique CDR3  
12 unique J



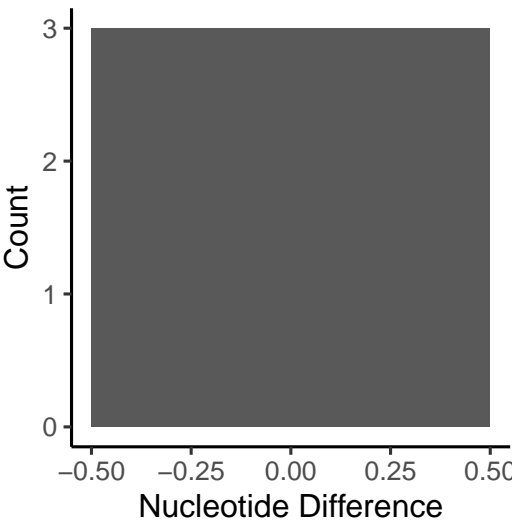
TRBV18\*ap01

8360 sequences assigned  
8352 (99.9%) exact matches, in which:  
8349 unique CDR3  
13 unique J



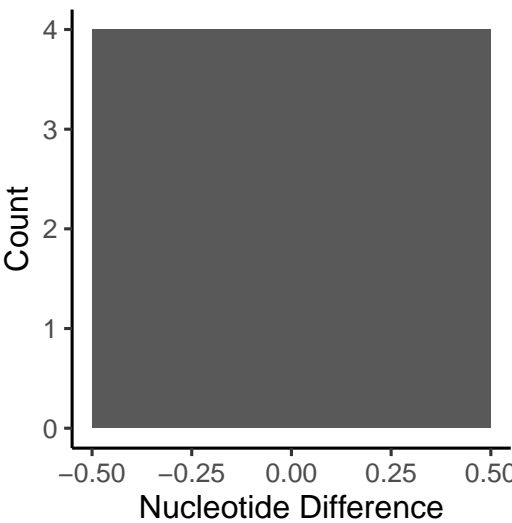
TRBV26\*ap01

3 sequences assigned  
3 (100%) exact matches, in which:  
3 unique CDR3  
1 unique J



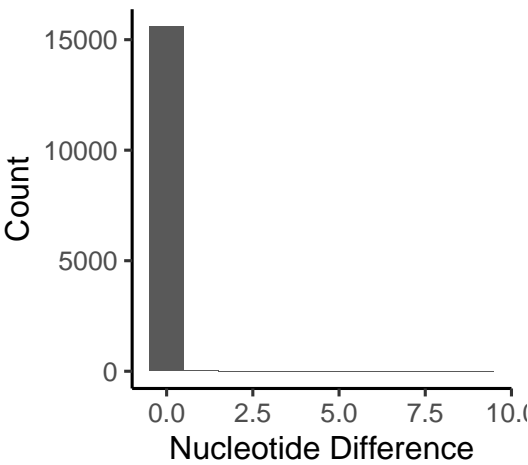
TRBV16\*ap01

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



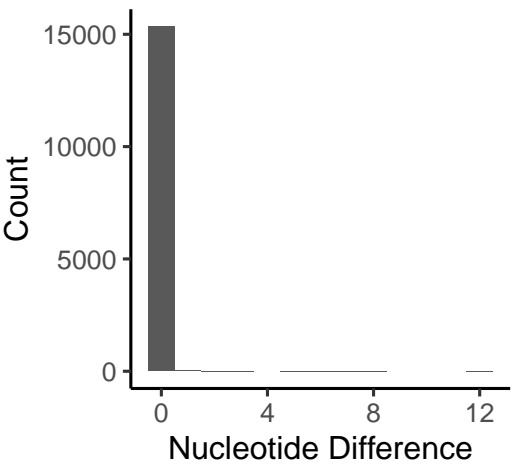
TRBV19\*ap01

15649 sequences assigned  
15597 (99.7%) exact matches, in which:  
15596 unique CDR3  
13 unique J



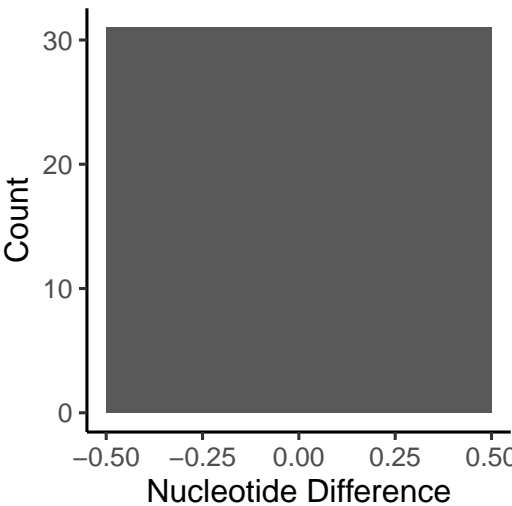
TRBV27\*ap01

15398 sequences assigned  
15348 (99.7%) exact matches, in which:  
15320 unique CDR3  
13 unique J



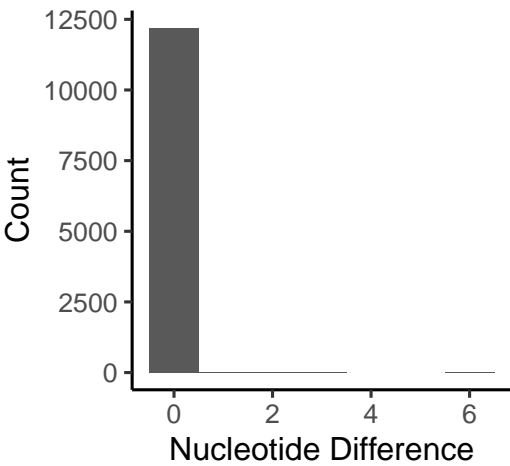
TRBV17\*ap01

31 sequences assigned  
31 (100%) exact matches, in which:  
31 unique CDR3  
10 unique J



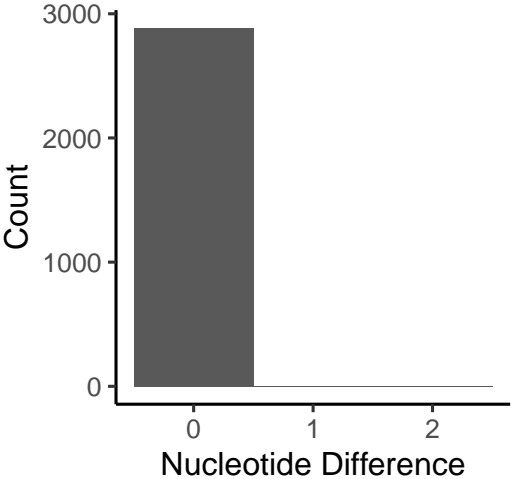
TRBV2\*ap01

12236 sequences assigned  
12201 (99.7%) exact matches, in which:  
12179 unique CDR3  
14 unique J



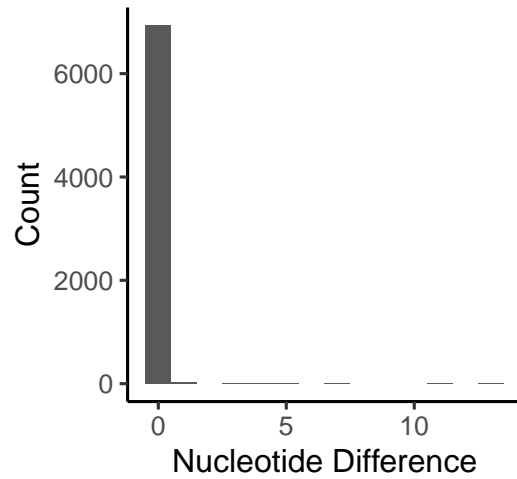
TRBV28\*ap01

2889 sequences assigned  
2885 (99.9%) exact matches, in which:  
2883 unique CDR3  
13 unique J



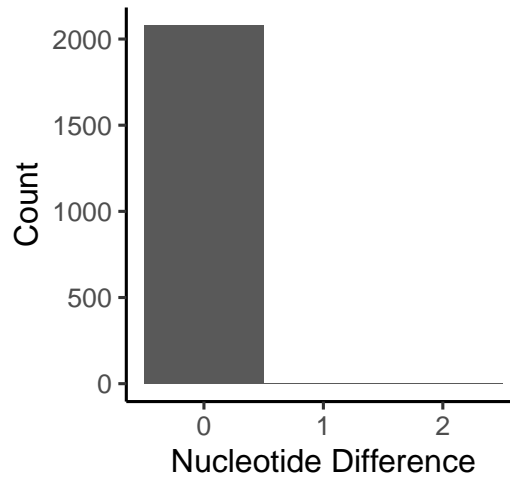
### TRBV30\*ap02

6978 sequences assigned  
6933 (99.4%) exact matches, in which:  
6913 unique CDR3  
13 unique J



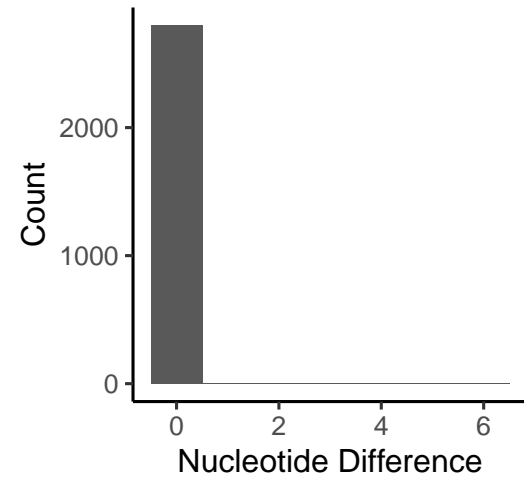
### TRBV21-1\*ap01

2086 sequences assigned  
2079 (99.7%) exact matches, in which:  
2079 unique CDR3  
13 unique J



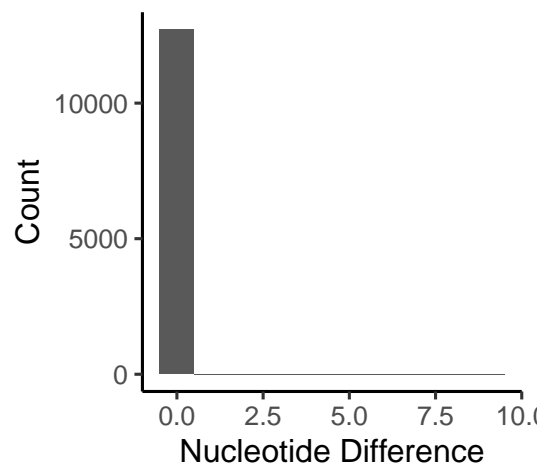
### TRBV11-3\*ap01

2812 sequences assigned  
2798 (99.5%) exact matches, in which:  
2798 unique CDR3  
13 unique J



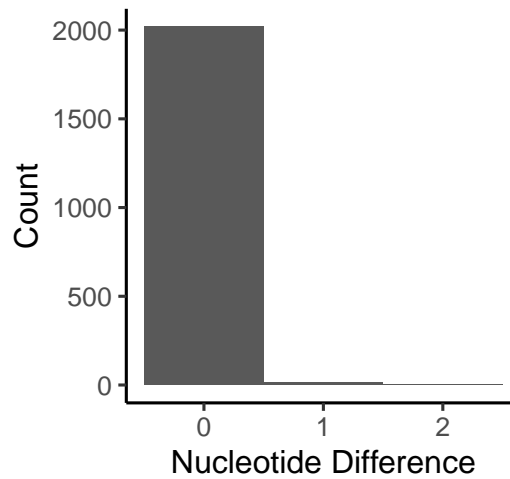
### TRBV9\*ap01

12743 sequences assigned  
12717 (99.8%) exact matches, in which:  
12711 unique CDR3  
13 unique J



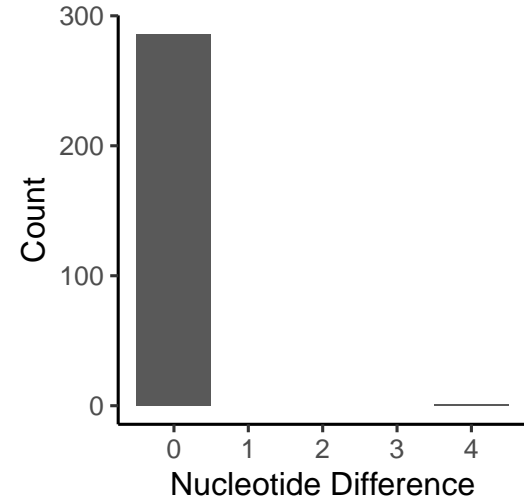
### TRBV21-1\*ap01\_T307C

2035 sequences assigned  
2019 (99.2%) exact matches, in which:  
2019 unique CDR3  
13 unique J



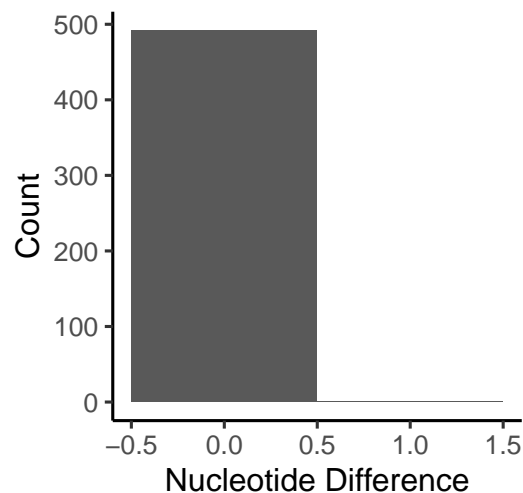
### TRBV12-1\*ap01

287 sequences assigned  
286 (99.7%) exact matches, in which:  
286 unique CDR3  
13 unique J



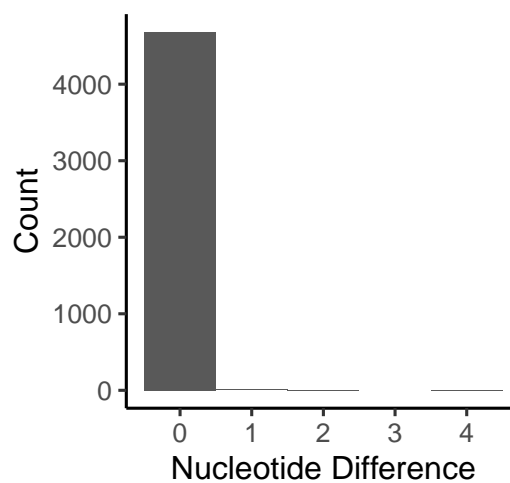
### TRBV11-1\*ap01

493 sequences assigned  
492 (99.8%) exact matches, in which:  
492 unique CDR3  
13 unique J



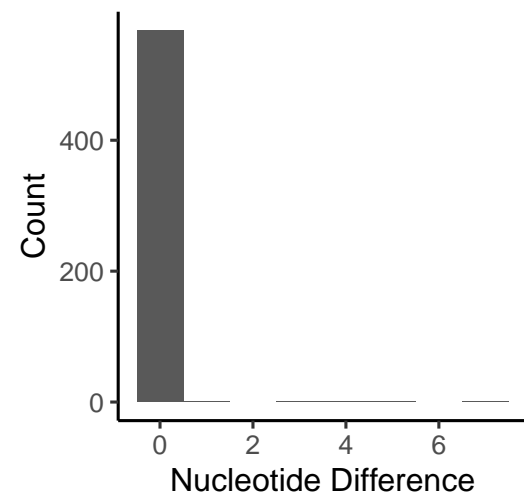
### TRBV11-2\*ap01

4695 sequences assigned  
4681 (99.7%) exact matches, in which:  
4681 unique CDR3  
13 unique J



### TRBV12-2\*ap01

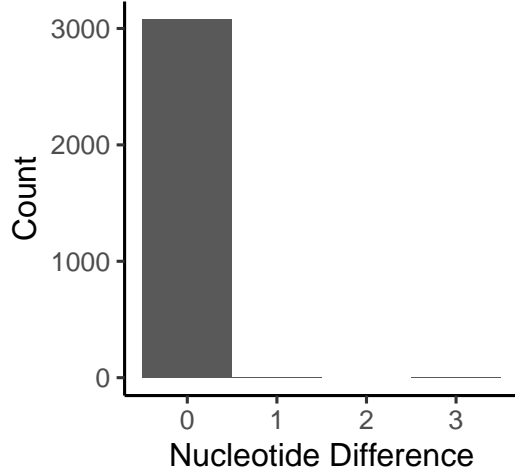
573 sequences assigned  
568 (99.1%) exact matches, in which:  
568 unique CDR3  
13 unique J





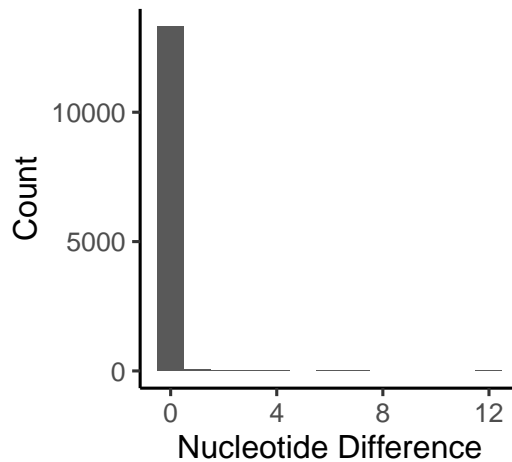
### TRBV12-5\*ap01

3084 sequences assigned  
3078 (99.8%) exact matches, in which:  
3077 unique CDR3  
13 unique J



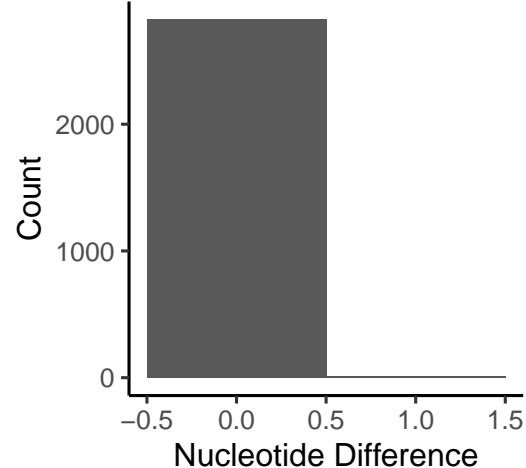
### TRBV3-12\*ap01

13390 sequences assigned  
13328 (99.5%) exact matches, in which:  
13300 unique CDR3  
13 unique J



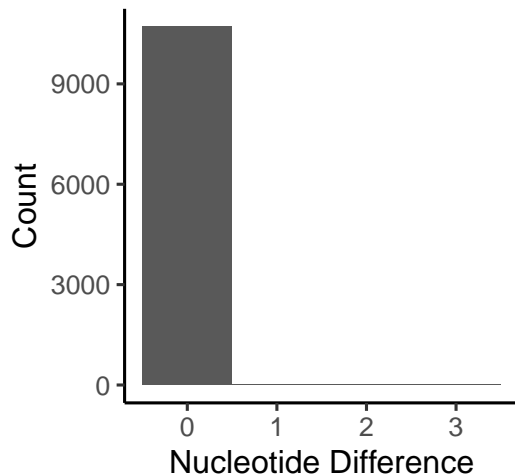
### TRBV4-2\*ap01

2836 sequences assigned  
2827 (99.7%) exact matches, in which:  
2827 unique CDR3  
13 unique J



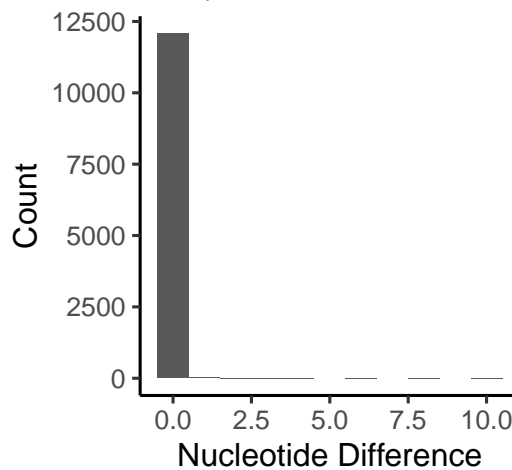
### TRBV12-34\*ap01

10734 sequences assigned  
10708 (99.8%) exact matches, in which:  
10706 unique CDR3  
13 unique J



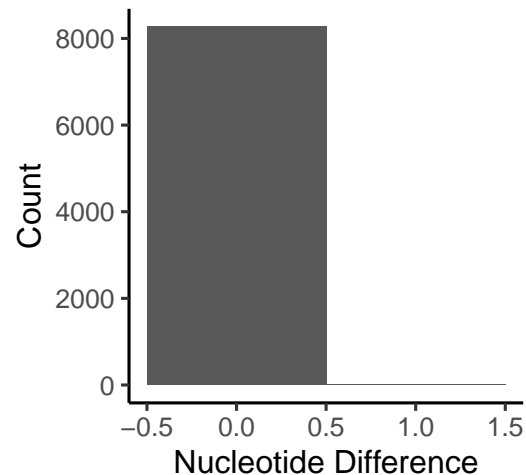
### TRBV24-1\*ap01

12128 sequences assigned  
12079 (99.6%) exact matches, in which:  
12051 unique CDR3  
13 unique J



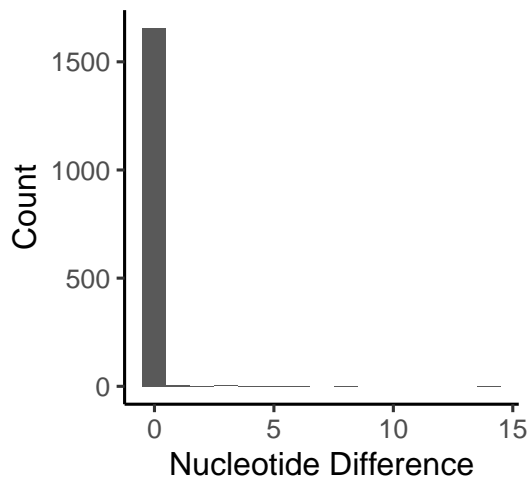
### TRBV4-3\*ap01

8278 sequences assigned  
8271 (99.9%) exact matches, in which:  
8266 unique CDR3  
12 unique J



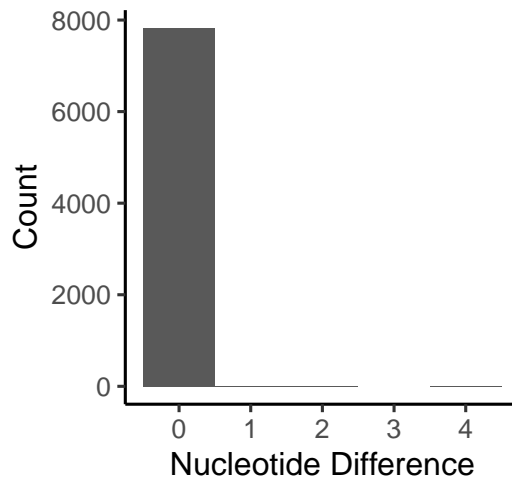
### TRBV23-1\*ap01

1673 sequences assigned  
1656 (99%) exact matches, in which:  
1656 unique CDR3  
13 unique J



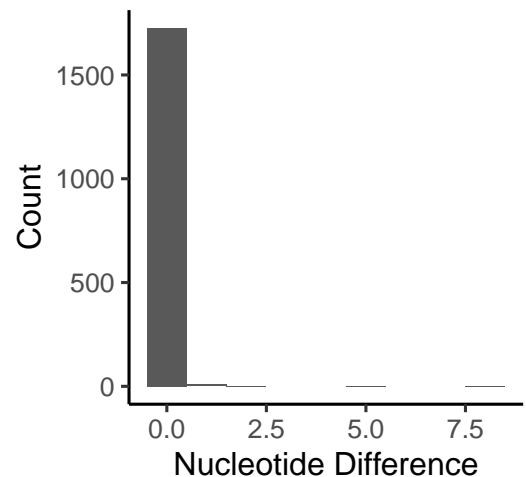
### TRBV4-1\*ap01

7838 sequences assigned  
7825 (99.8%) exact matches, in which:  
7820 unique CDR3  
13 unique J



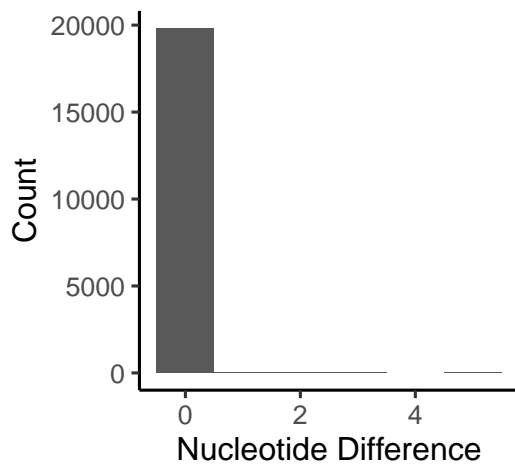
### TRBV25-1\*ap01

1738 sequences assigned  
1726 (99.3%) exact matches, in which:  
1724 unique CDR3  
13 unique J



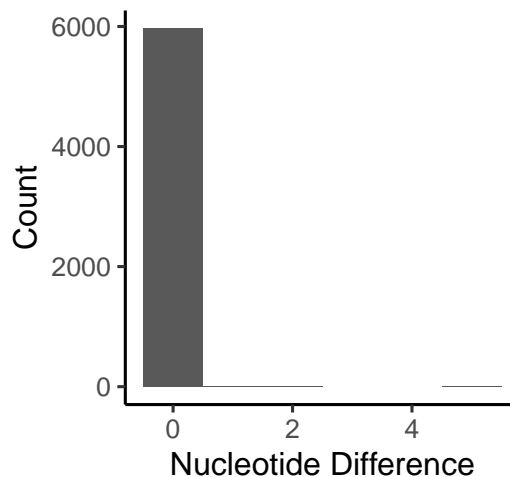
### TRBV5-1\*ap01

19859 sequences assigned  
19826 (99.8%) exact matches, in which:  
19794 unique CDR3  
13 unique J



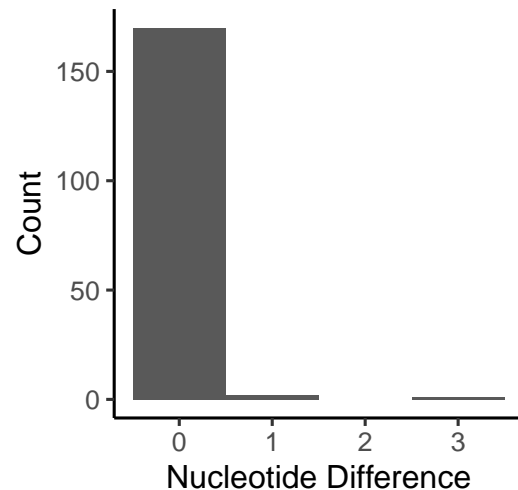
### TRBV5-4\*ap01

5981 sequences assigned  
5968 (99.8%) exact matches, in which:  
5968 unique CDR3  
13 unique J



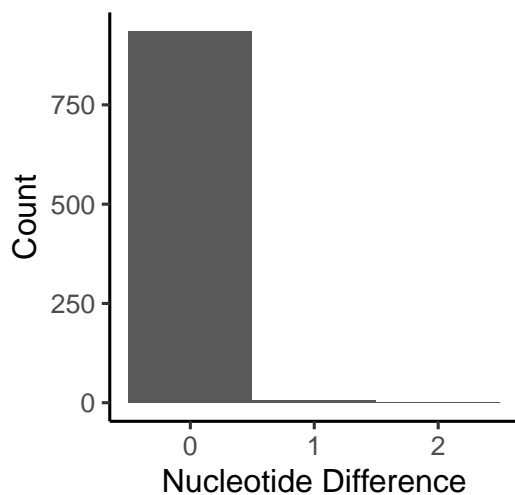
### TRBV5-7\*ap01

173 sequences assigned  
170 (98.3%) exact matches, in which:  
170 unique CDR3  
13 unique J



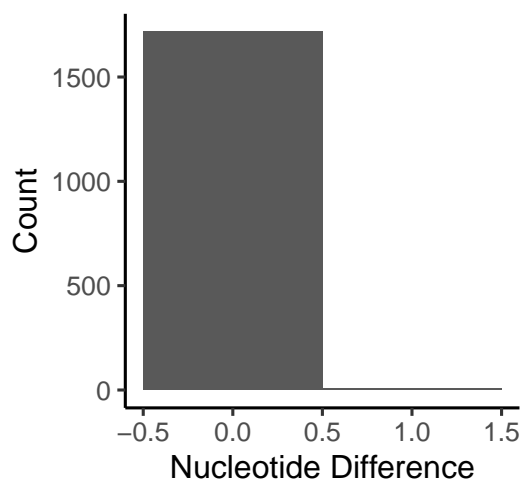
### TRBV25-1\*ap01\_A293G

944 sequences assigned  
936 (99.2%) exact matches, in which:  
931 unique CDR3  
13 unique J



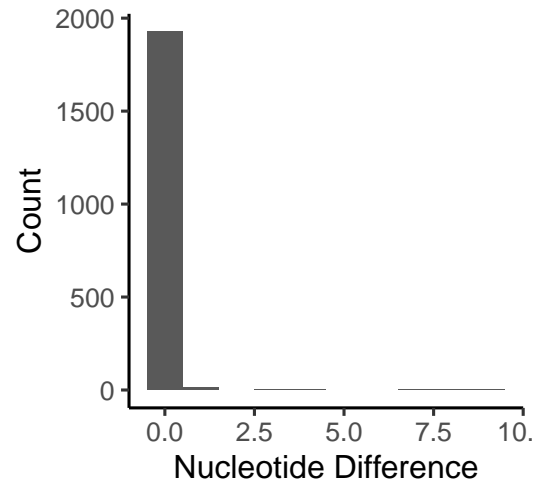
### TRBV5-5\*ap01

1723 sequences assigned  
1717 (99.7%) exact matches, in which:  
1715 unique CDR3  
13 unique J



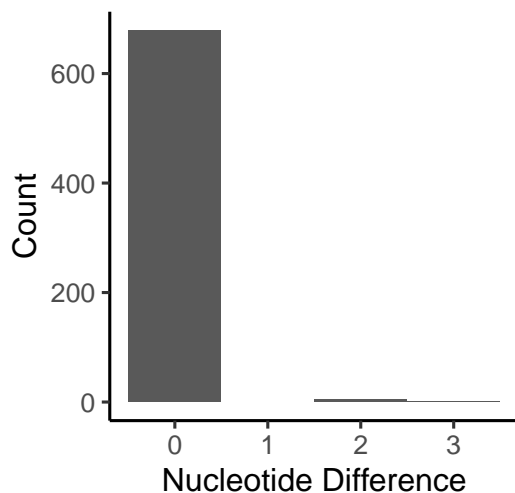
### TRBV5-8\*ap01

1944 sequences assigned  
1927 (99.1%) exact matches, in which:  
1927 unique CDR3  
13 unique J



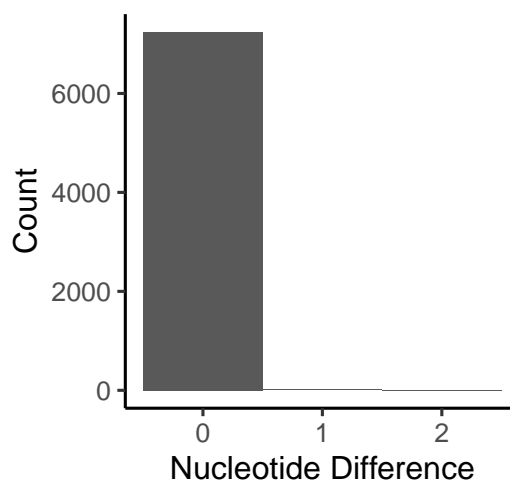
### TRBV5-3\*ap01

685 sequences assigned  
679 (99.1%) exact matches, in which:  
677 unique CDR3  
13 unique J



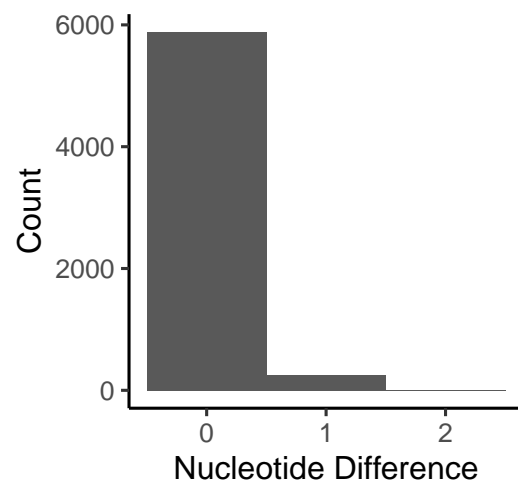
### TRBV5-6\*ap01

7258 sequences assigned  
7241 (99.8%) exact matches, in which:  
7223 unique CDR3  
13 unique J



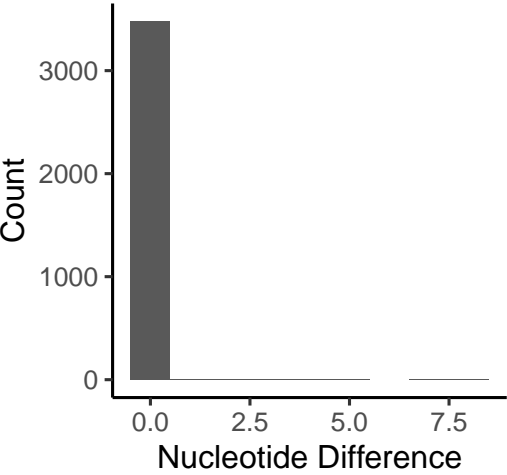
### TRBV6-1\*ap01

6135 sequences assigned  
5882 (95.9%) exact matches, in which:  
5877 unique CDR3  
13 unique J



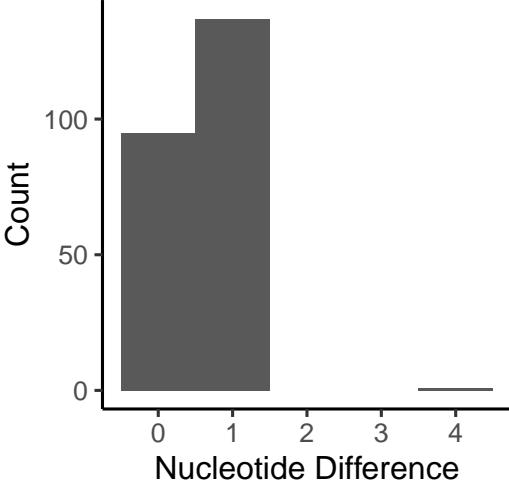
TRBV6-4\*ap01

3499 sequences assigned  
3478 (99.4%) exact matches, in which:  
3478 unique CDR3  
13 unique J



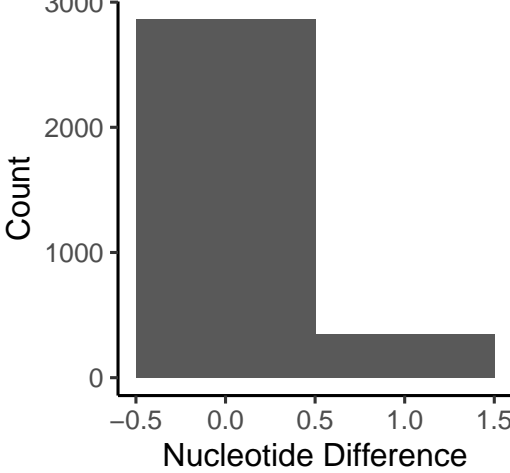
TRBV6-9\*ap01

233 sequences assigned  
95 (40.8%) exact matches, in which:  
95 unique CDR3  
13 unique J



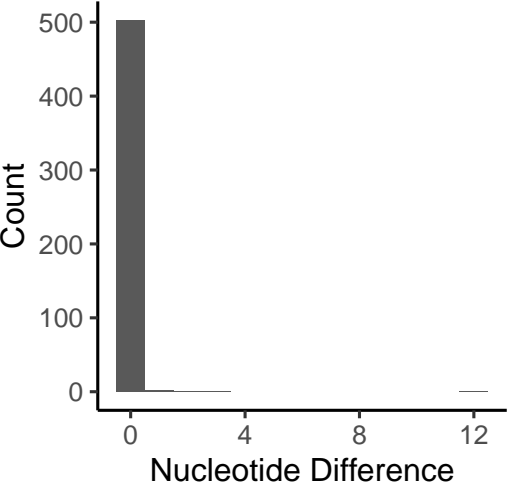
TRBV6-56\*ap02

3211 sequences assigned  
2862 (89.1%) exact matches, in which:  
2858 unique CDR3  
13 unique J



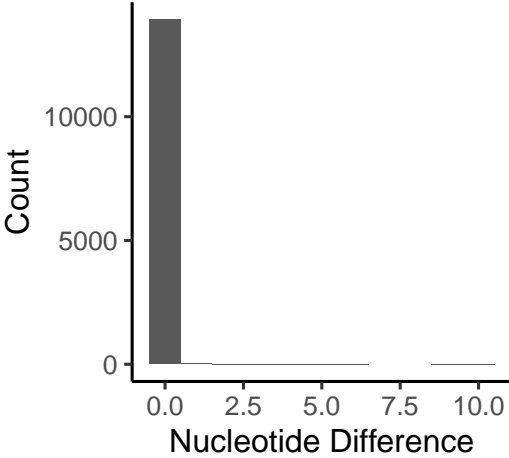
TRBV6-7\*ap01

508 sequences assigned  
503 (99%) exact matches, in which:  
503 unique CDR3  
13 unique J



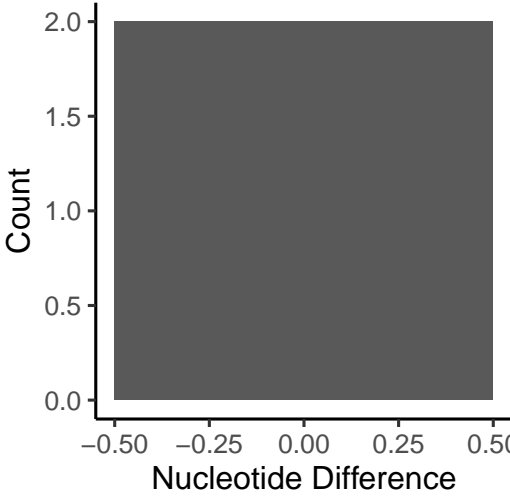
TRBV6-23\*ap01

13970 sequences assigned  
13927 (99.7%) exact matches, in which:  
13901 unique CDR3  
13 unique J



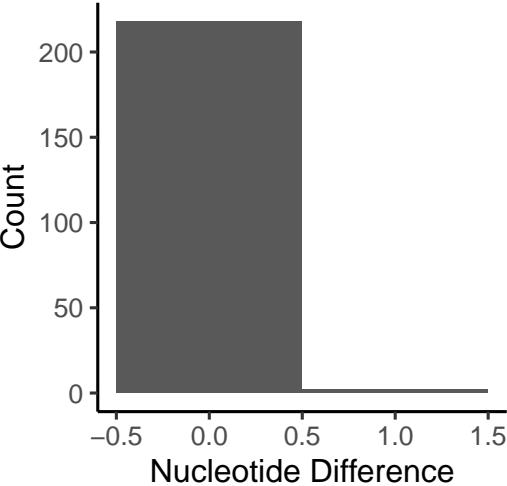
TRBV7-1\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



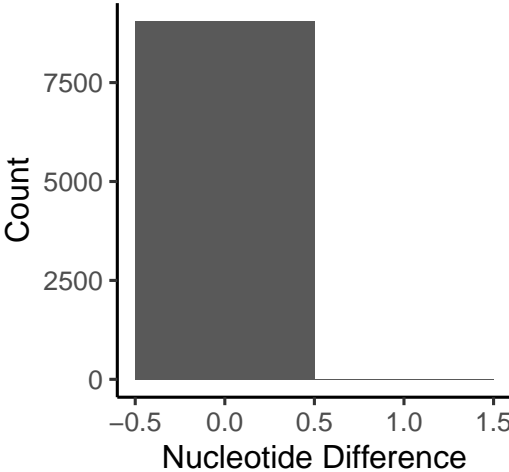
TRBV6-8\*ap01

220 sequences assigned  
218 (99.1%) exact matches, in which:  
218 unique CDR3  
13 unique J



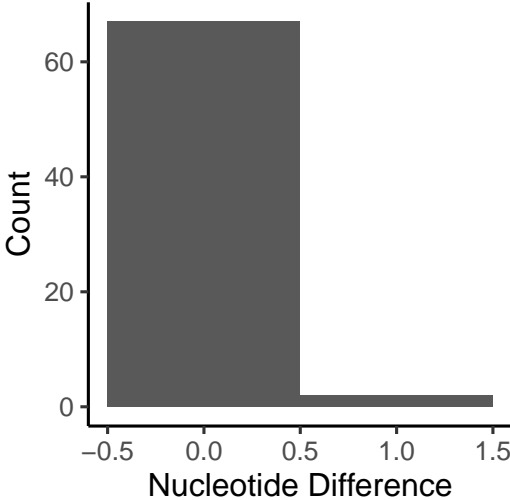
TRBV6-56\*ap01

9069 sequences assigned  
9056 (99.9%) exact matches, in which:  
9043 unique CDR3  
13 unique J



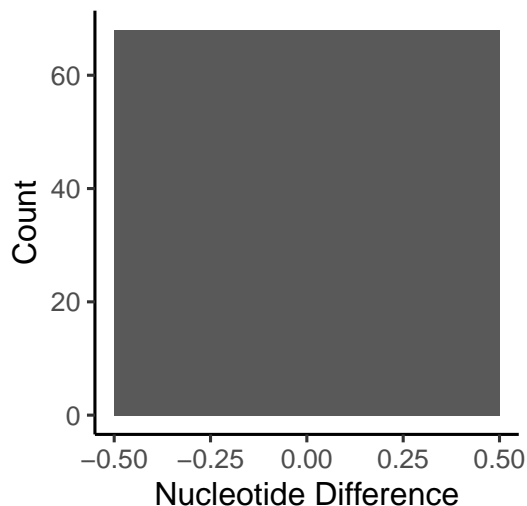
TRBV7-1\*ap01\_G291C\_T

69 sequences assigned  
67 (97.1%) exact matches, in which:  
67 unique CDR3  
12 unique J



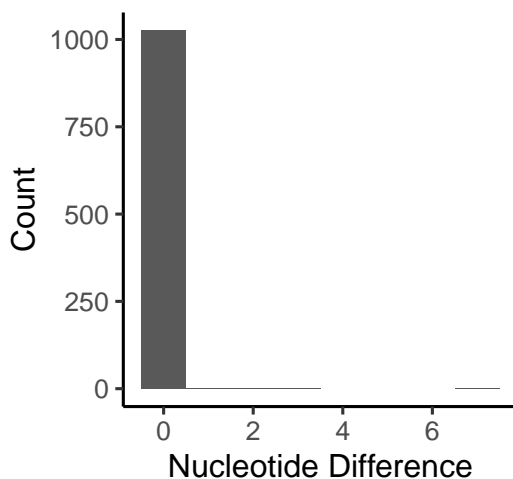
### TRBV7-1\*ap01\_G291C\_T

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



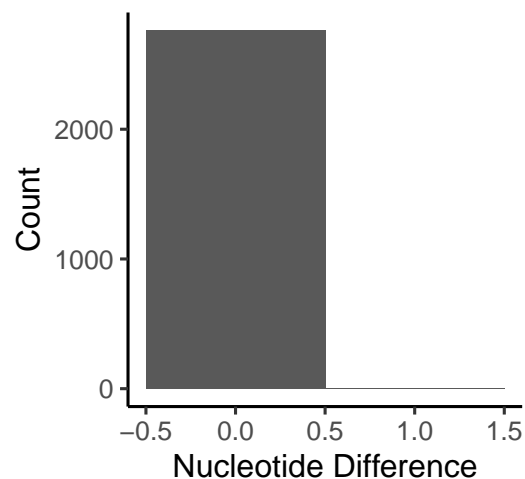
### TRBV7-3\*ap02

1032 sequences assigned  
1026 (99.4%) exact matches, in which:  
1025 unique CDR3  
12 unique J



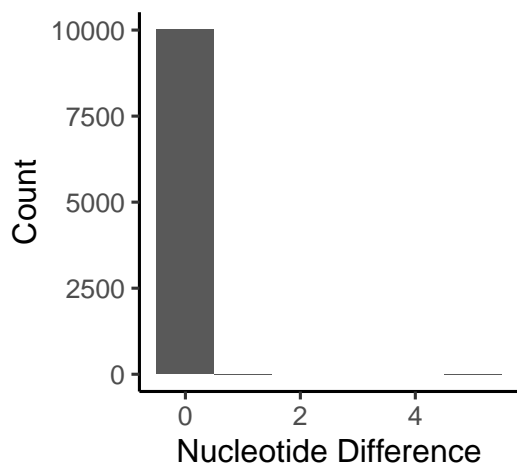
### TRBV7-8\*ap01

2764 sequences assigned  
2762 (99.9%) exact matches, in which:  
2762 unique CDR3  
13 unique J



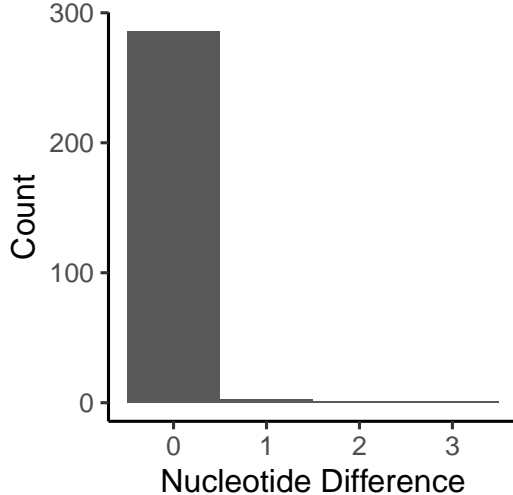
### TRBV7-2\*ap01

10031 sequences assigned  
10017 (99.9%) exact matches, in which:  
10015 unique CDR3  
13 unique J



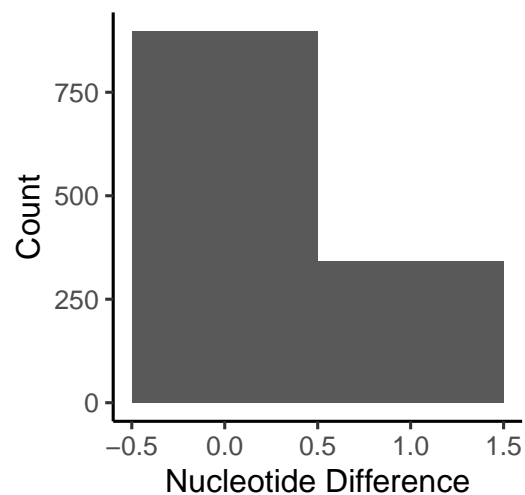
### TRBV7-4\*ap01

291 sequences assigned  
286 (98.3%) exact matches, in which:  
286 unique CDR3  
13 unique J



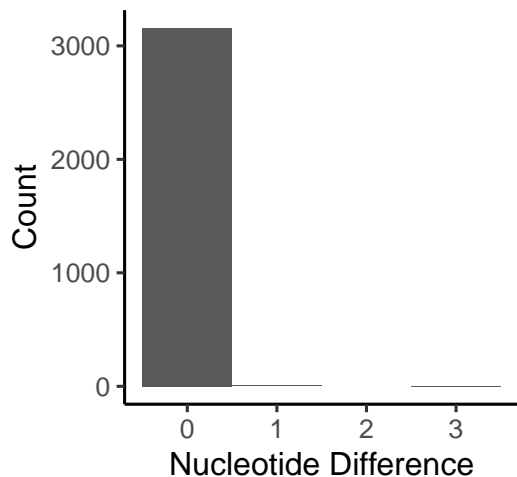
### TRBV7-8\*ap03

1240 sequences assigned  
898 (72.4%) exact matches, in which:  
898 unique CDR3  
13 unique J



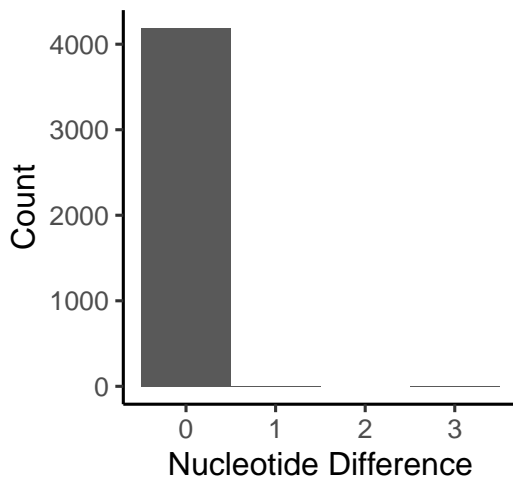
### TRBV7-3\*ap01

3164 sequences assigned  
3157 (99.8%) exact matches, in which:  
3155 unique CDR3  
13 unique J



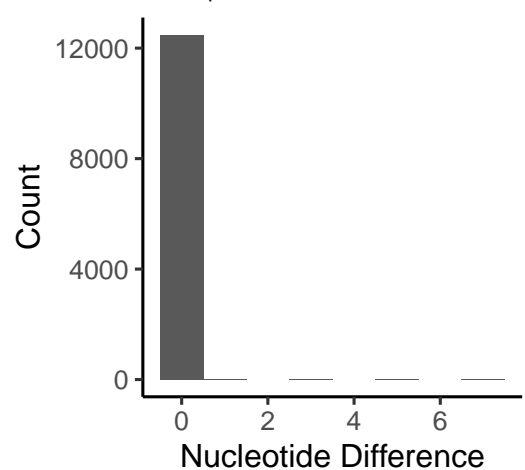
### TRBV7-6\*ap01

4197 sequences assigned  
4189 (99.8%) exact matches, in which:  
4185 unique CDR3  
13 unique J



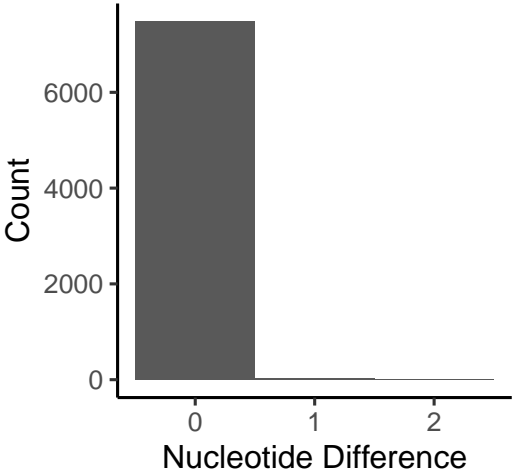
### TRBV7-9\*ap01

12492 sequences assigned  
12483 (99.9%) exact matches, in which:  
12481 unique CDR3  
13 unique J



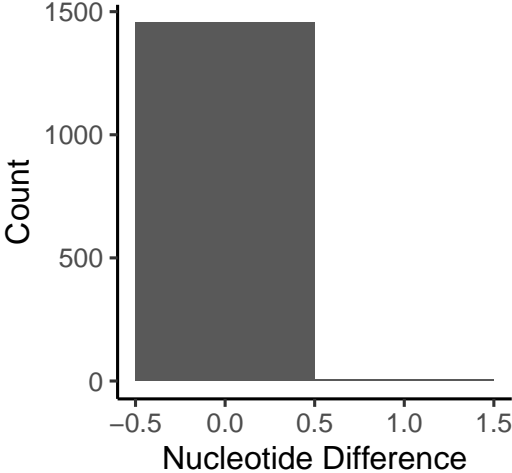
# TRBV29-1\*ap01

7504 sequences assigned  
7481 (99.7%) exact matches, in which:  
7458 unique CDR3  
13 unique J

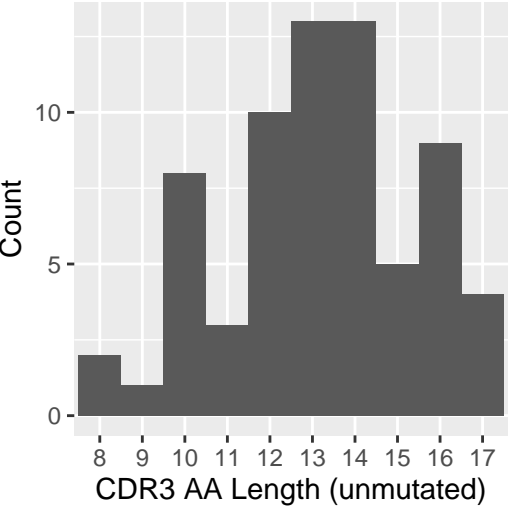


# TRBV29-1\*ap02

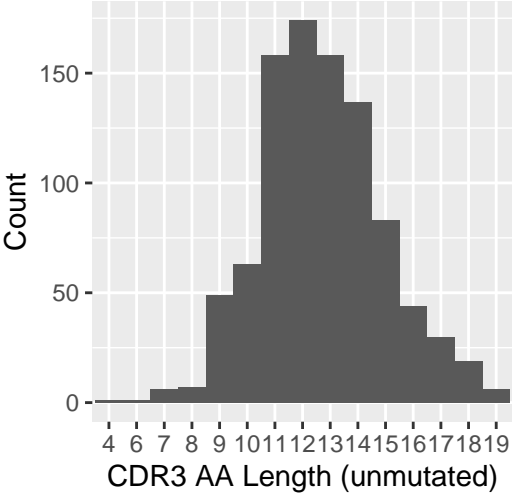
1460 sequences assigned  
1455 (99.7%) exact matches, in which:  
1447 unique CDR3  
13 unique J



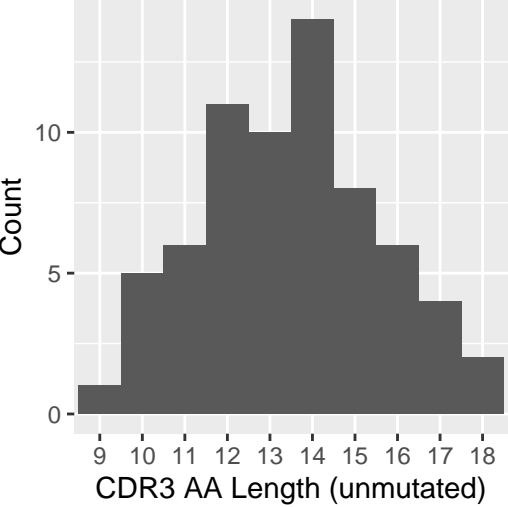
TRBV7-1\*ap01\_G291C\_T29



TRBV25-1\*ap01\_A293G



TRBV7-1\*ap01\_G291C\_T296C



TRBV21-1\*ap01\_T307C

