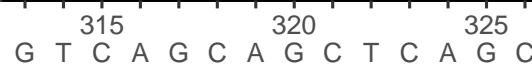
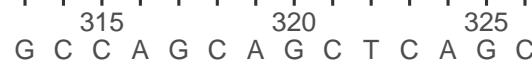


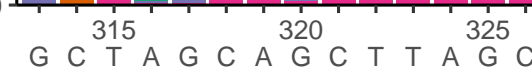
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



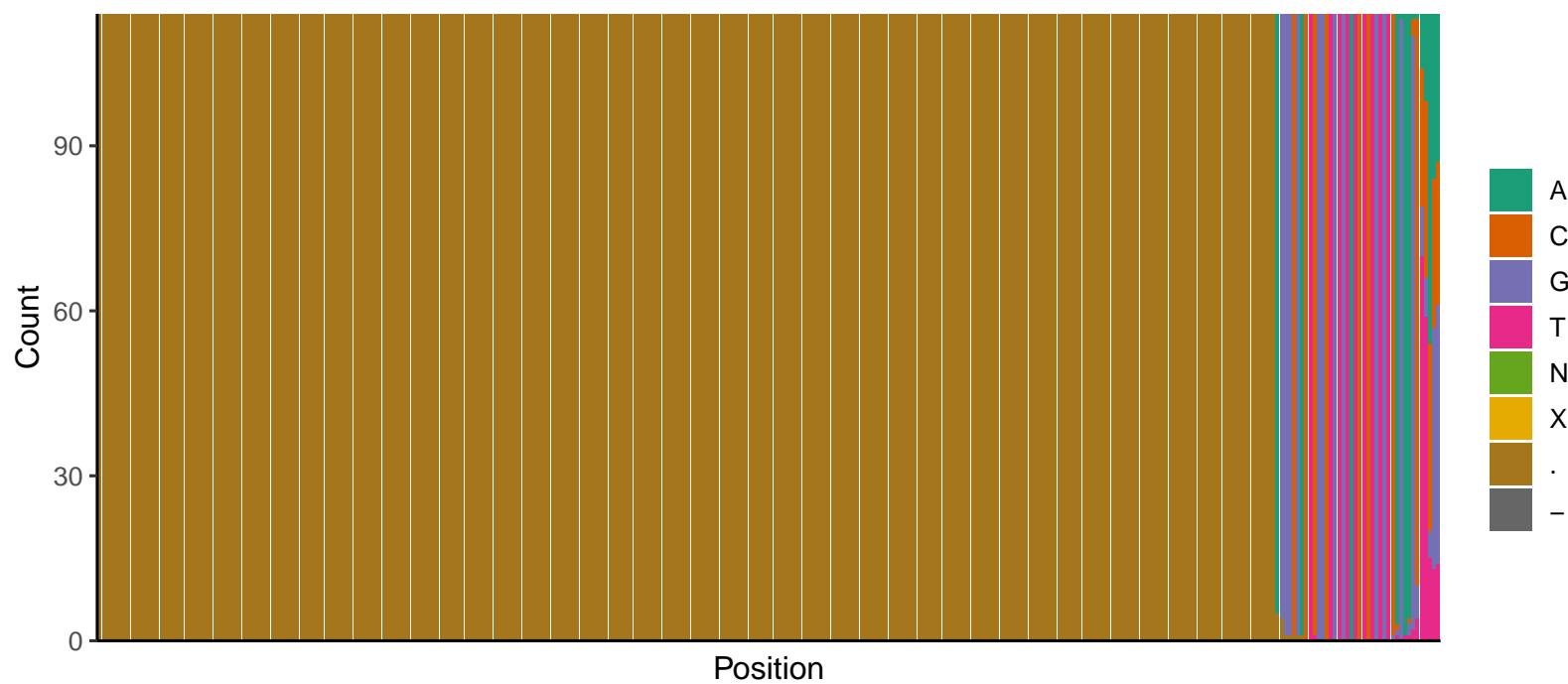
Gene TRBV7-1\*ap01\_G291C\_T296C



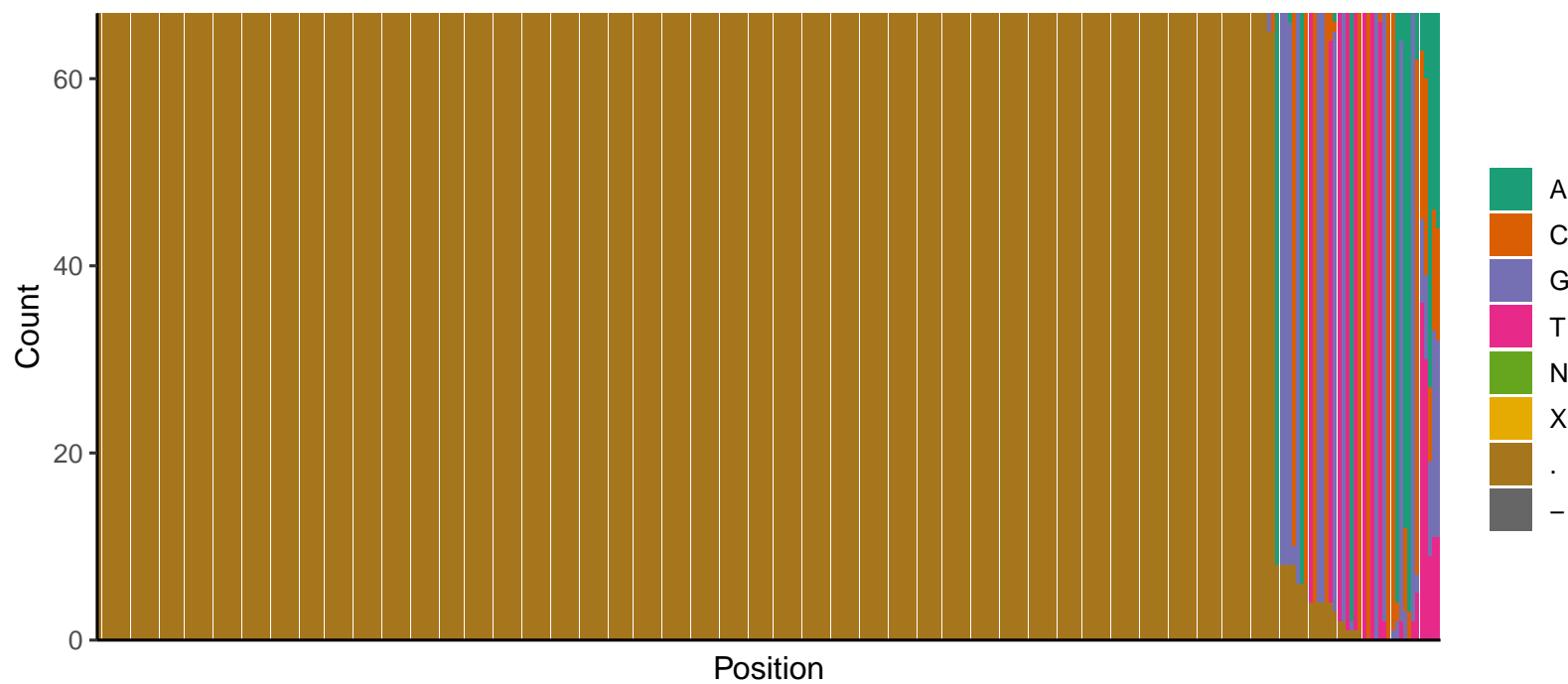
Gene TRBV7-7\*ap01\_C315T



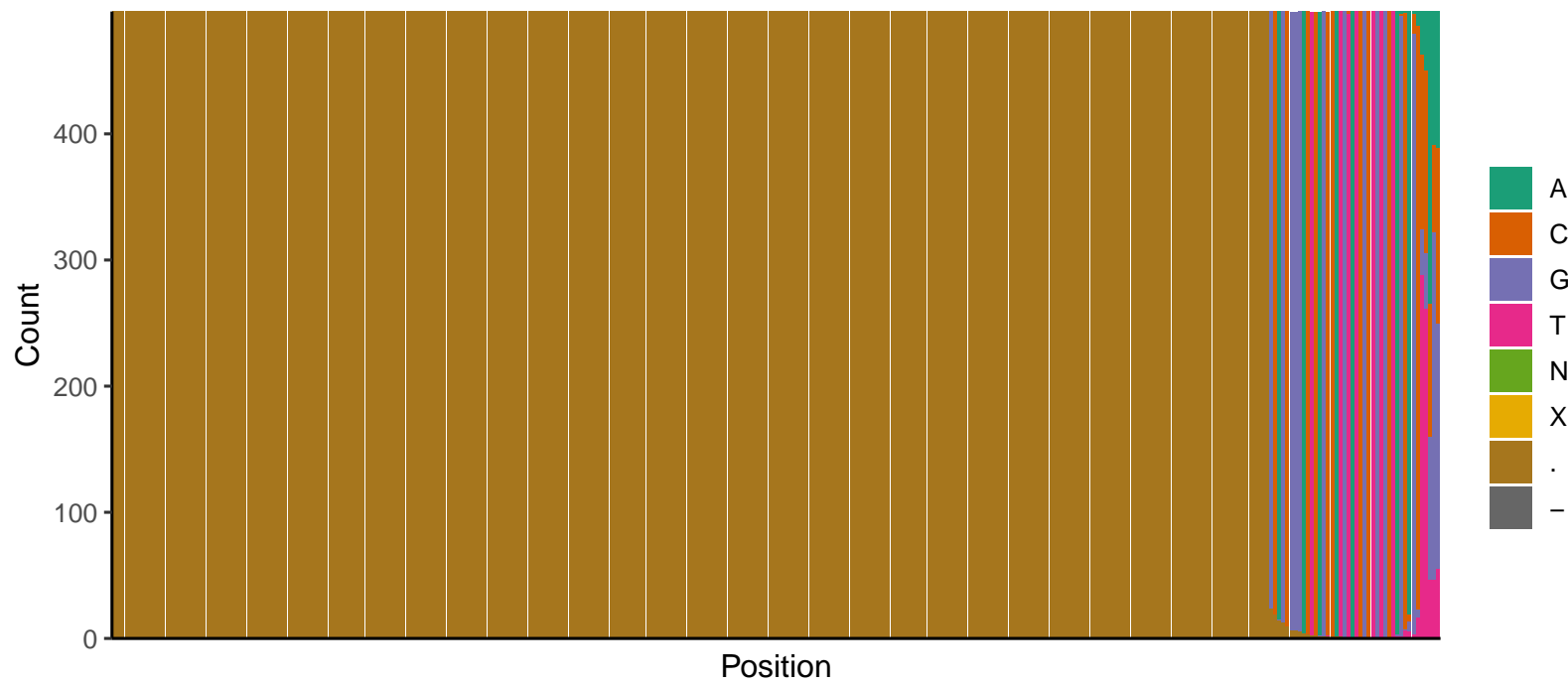
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



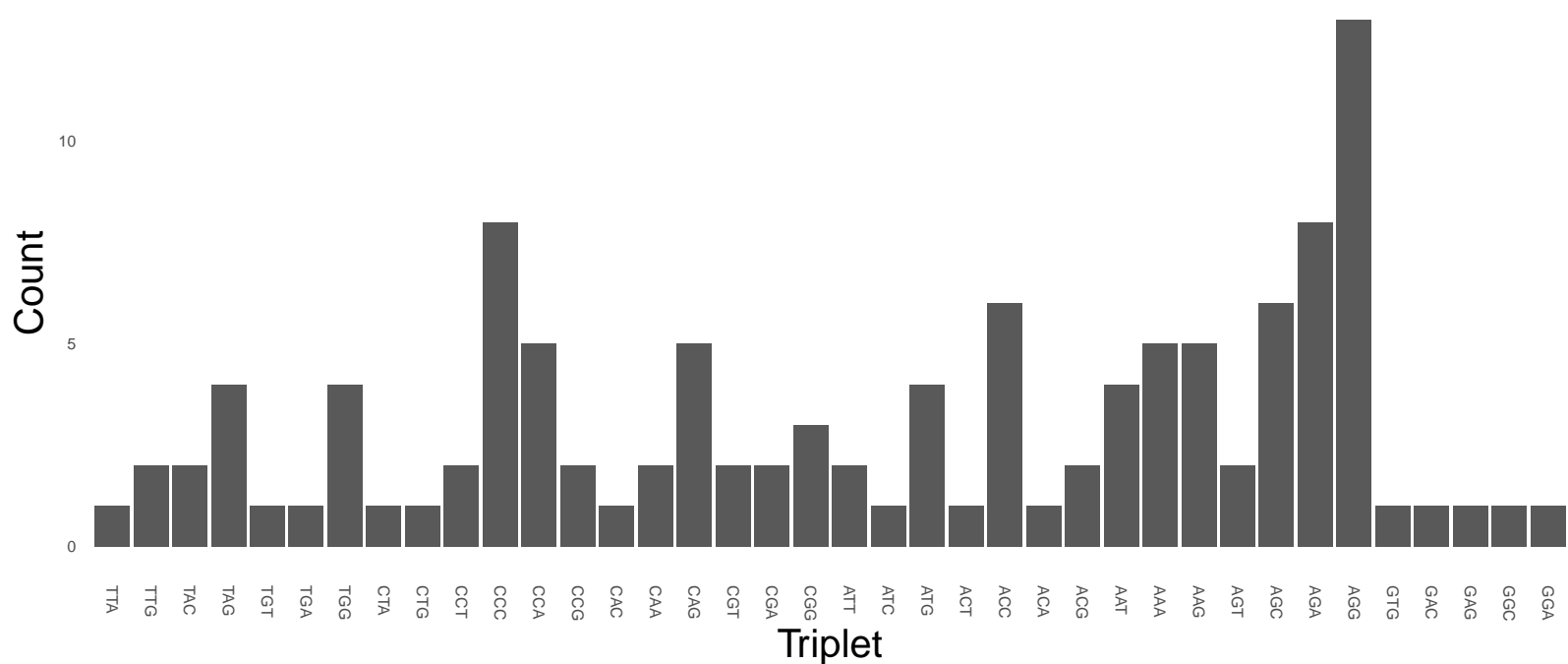
Gene TRBV7-1\*ap01\_G291C\_T296C



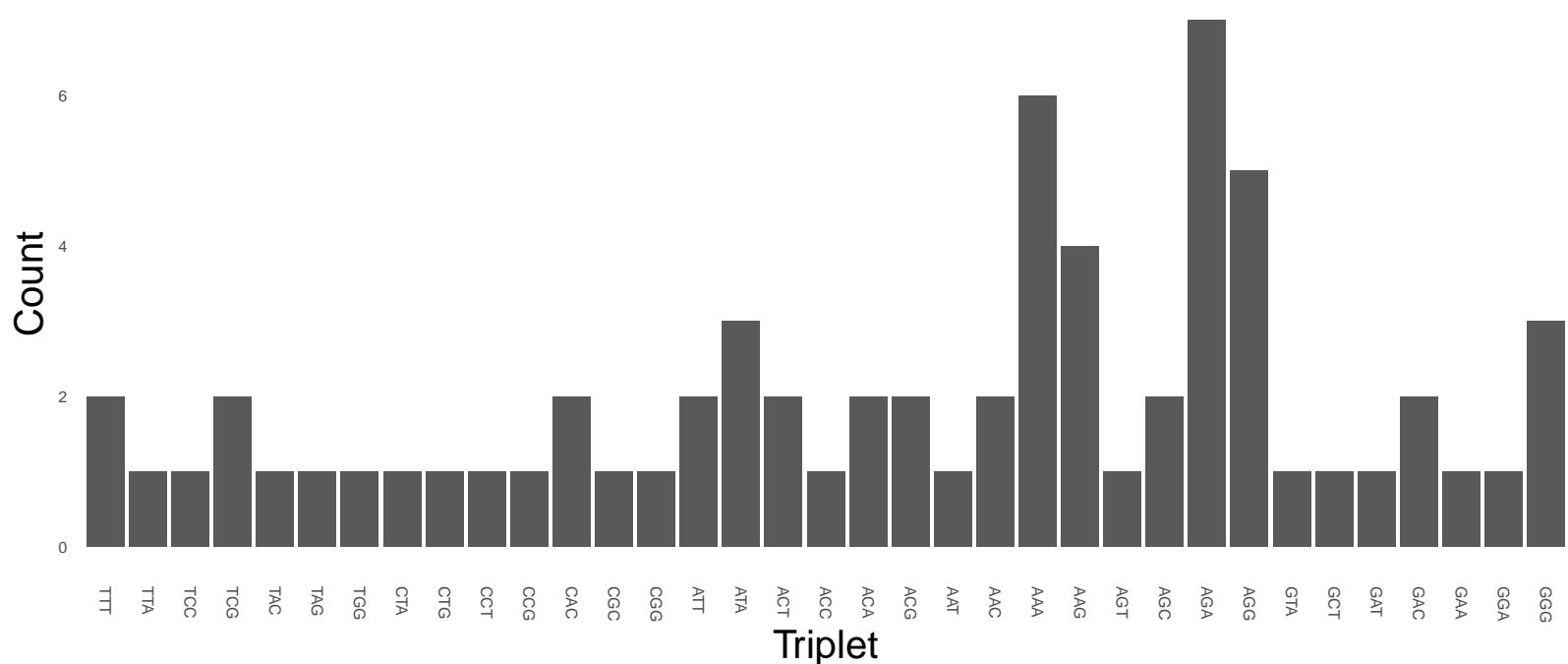
Gene TRBV7-7\*ap01\_C315T



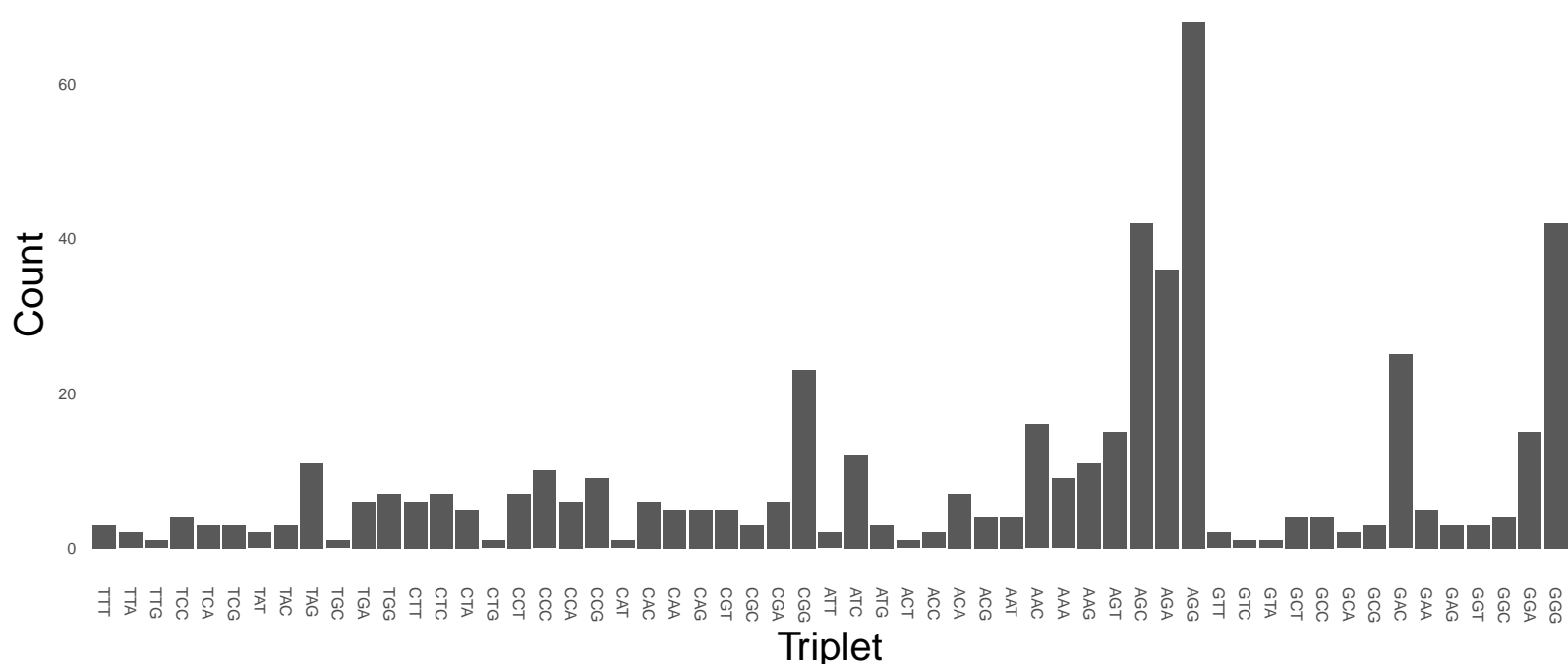
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

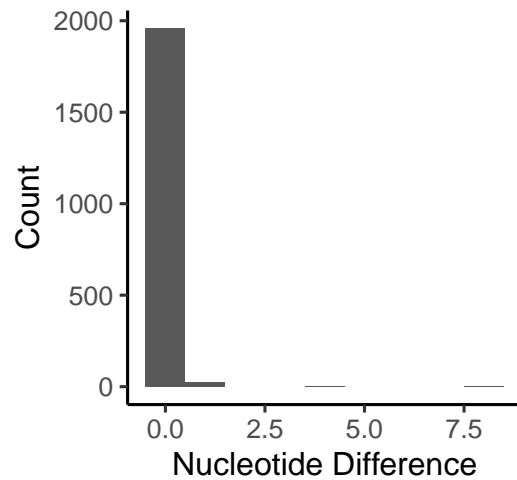


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



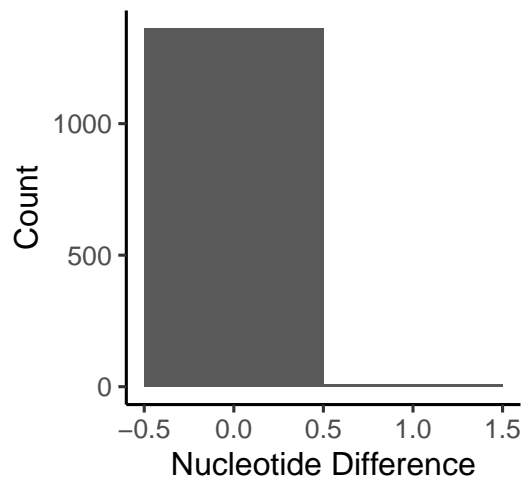
### TRBV10-1\*ap01

1984 sequences assigned  
1958 (98.7%) exact matches, in which:  
1914 unique CDR3  
13 unique J



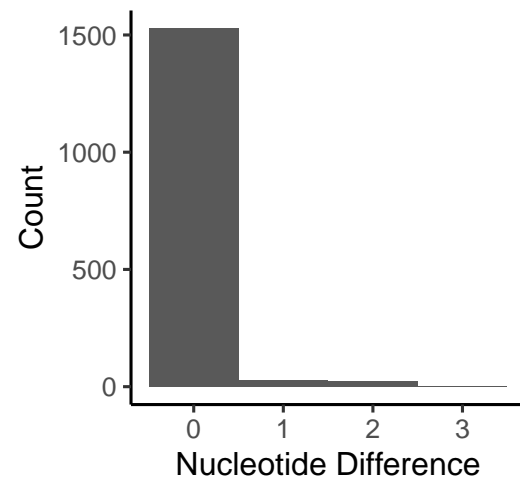
### TRBV10-2\*ap01

1373 sequences assigned  
1362 (99.2%) exact matches, in which:  
1346 unique CDR3  
13 unique J



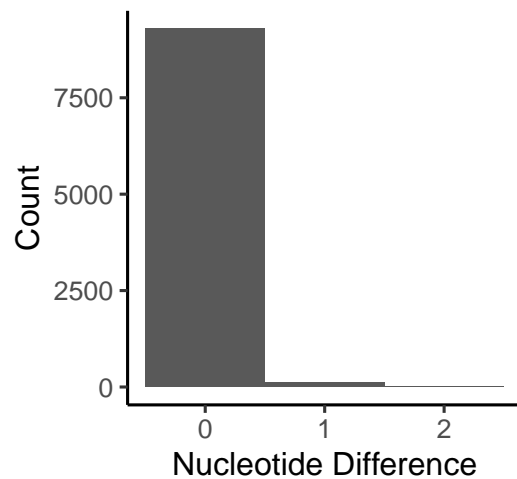
### TRBV13\*ap01

1579 sequences assigned  
1528 (96.8%) exact matches, in which:  
1484 unique CDR3  
13 unique J



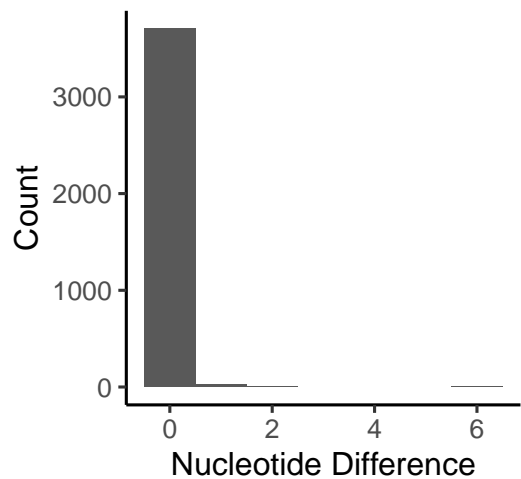
### TRBV20-1\*ap01

9398 sequences assigned  
9290 (98.9%) exact matches, in which:  
9171 unique CDR3  
13 unique J



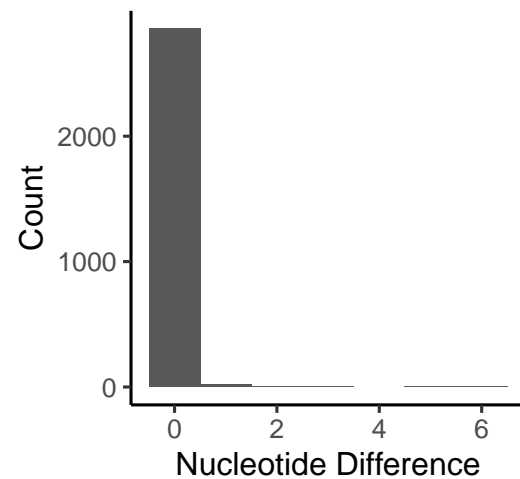
### TRBV10-3\*ap01

3733 sequences assigned  
3705 (99.2%) exact matches, in which:  
3633 unique CDR3  
13 unique J



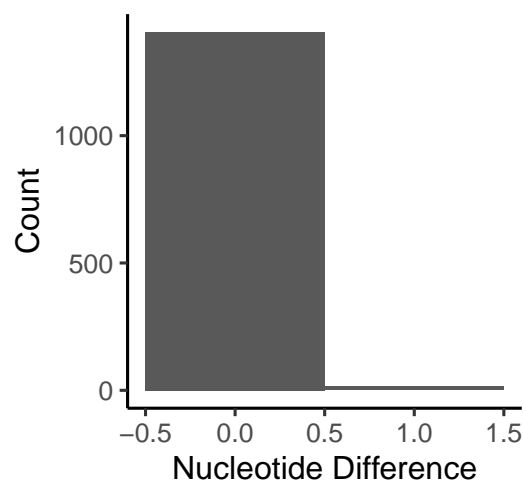
### TRBV14\*ap01

2883 sequences assigned  
2857 (99.1%) exact matches, in which:  
2829 unique CDR3  
13 unique J



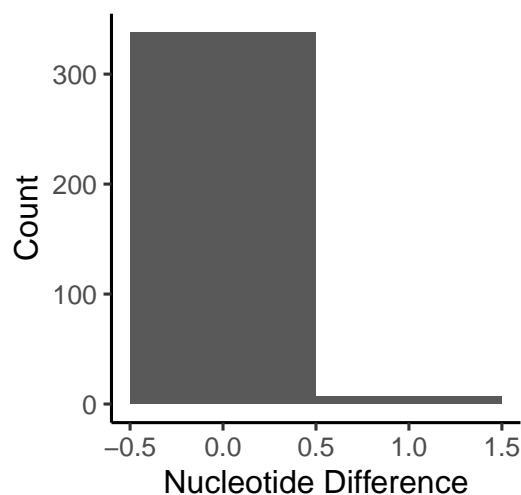
### TRBV20-1\*ap02

1422 sequences assigned  
1407 (98.9%) exact matches, in which:  
1384 unique CDR3  
13 unique J



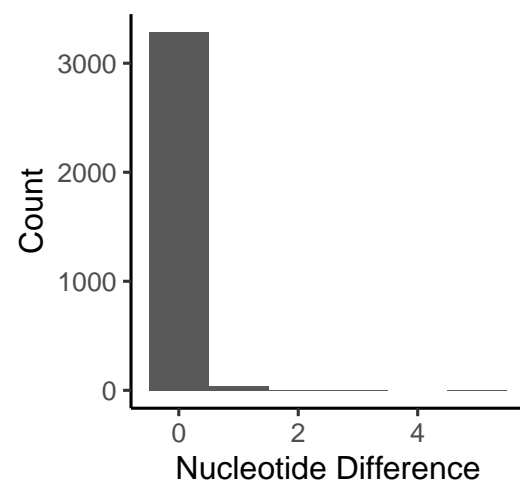
### TRBV1\*ap01

345 sequences assigned  
338 (98%) exact matches, in which:  
331 unique CDR3  
13 unique J



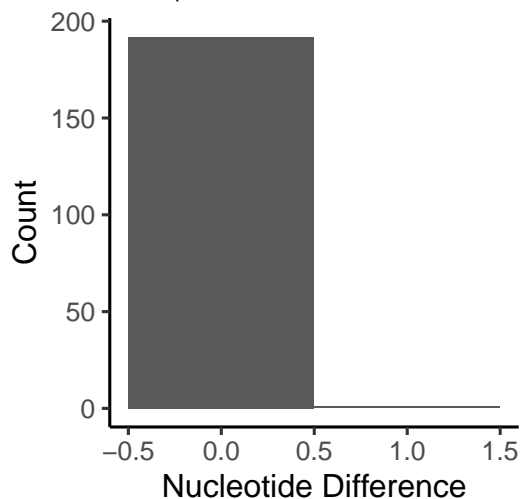
### TRBV15\*ap02

3329 sequences assigned  
3286 (98.7%) exact matches, in which:  
3221 unique CDR3  
13 unique J



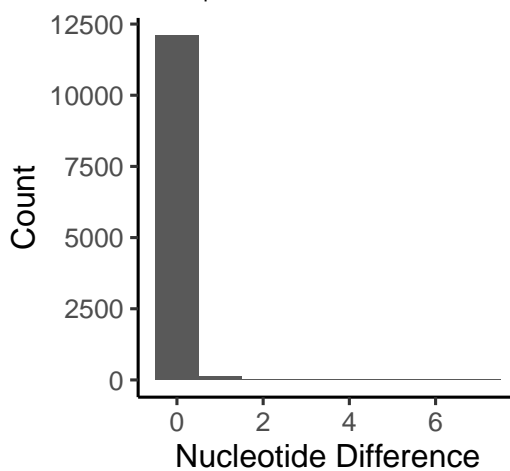
### TRBV16\*ap01

193 sequences assigned  
192 (99.5%) exact matches, in which:  
192 unique CDR3  
13 unique J



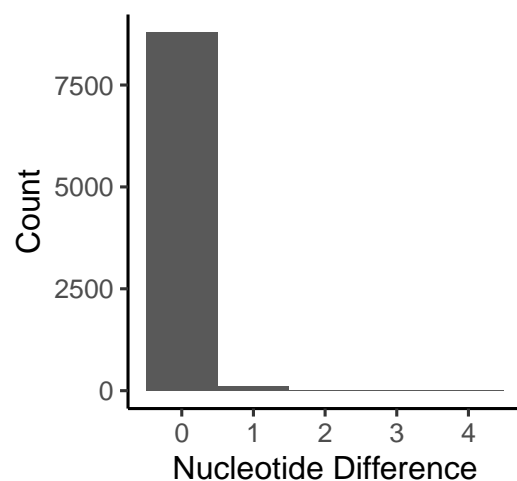
### TRBV19\*ap01

12231 sequences assigned  
12111 (99%) exact matches, in which:  
12023 unique CDR3  
13 unique J



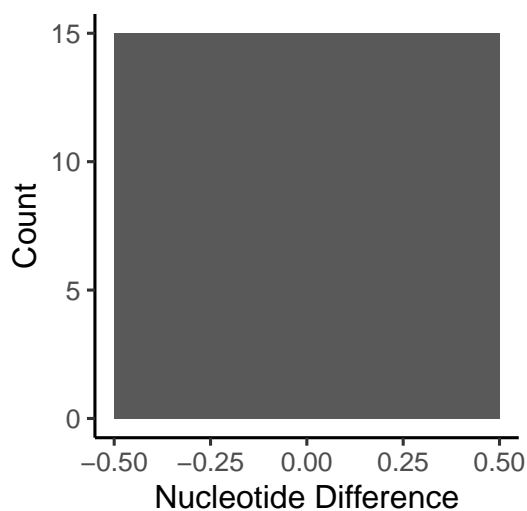
### TRBV27\*ap01

8912 sequences assigned  
8791 (98.6%) exact matches, in which:  
8610 unique CDR3  
13 unique J



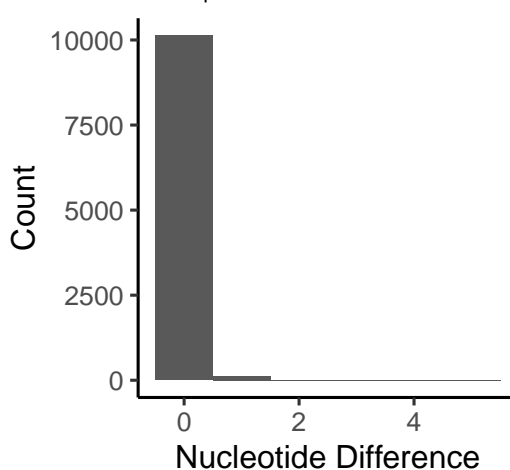
### TRBV17\*ap01

15 sequences assigned  
15 (100%) exact matches, in which:  
15 unique CDR3  
8 unique J



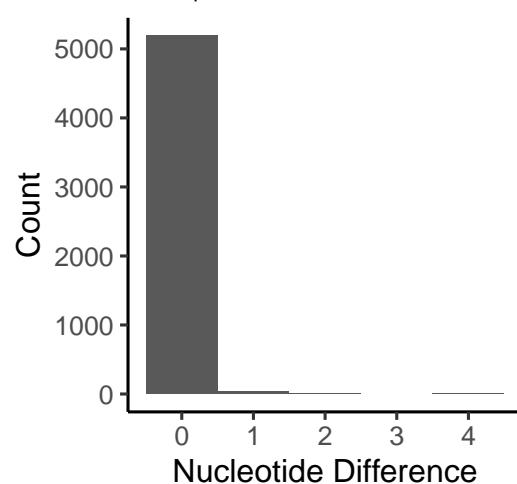
### TRBV2\*ap01

10263 sequences assigned  
10133 (98.7%) exact matches, in which:  
9958 unique CDR3  
13 unique J



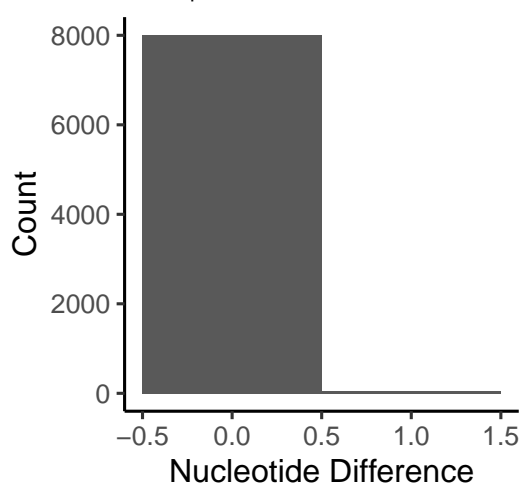
### TRBV28\*ap01

5234 sequences assigned  
5191 (99.2%) exact matches, in which:  
5120 unique CDR3  
13 unique J



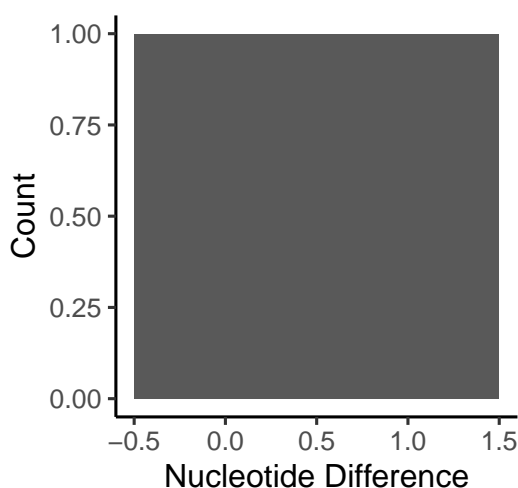
### TRBV18\*ap01

8057 sequences assigned  
8006 (99.4%) exact matches, in which:  
7935 unique CDR3  
13 unique J



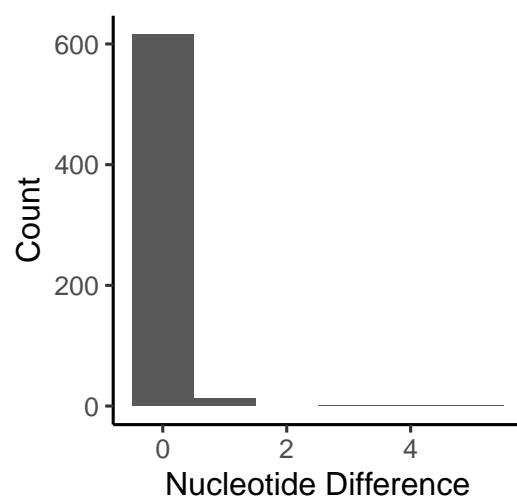
### TRBV26\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



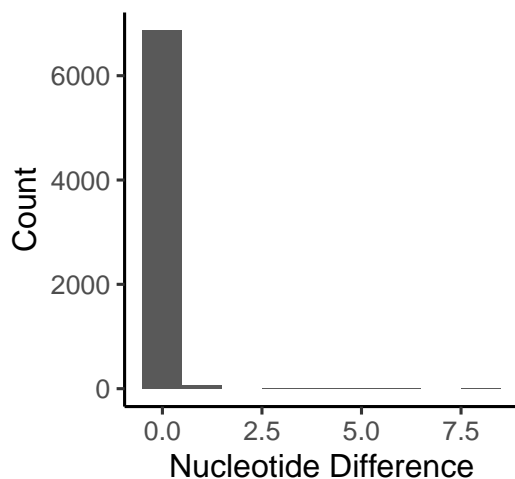
### TRBV30\*ap02

631 sequences assigned  
616 (97.6%) exact matches, in which:  
604 unique CDR3  
13 unique J



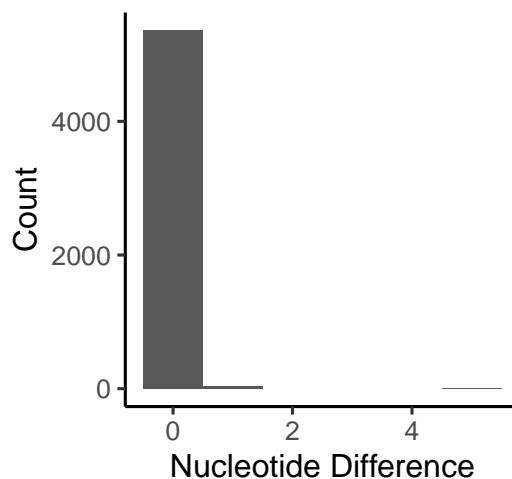
### TRBV9\*ap01

6944 sequences assigned  
6868 (98.9%) exact matches, in which:  
6764 unique CDR3  
13 unique J



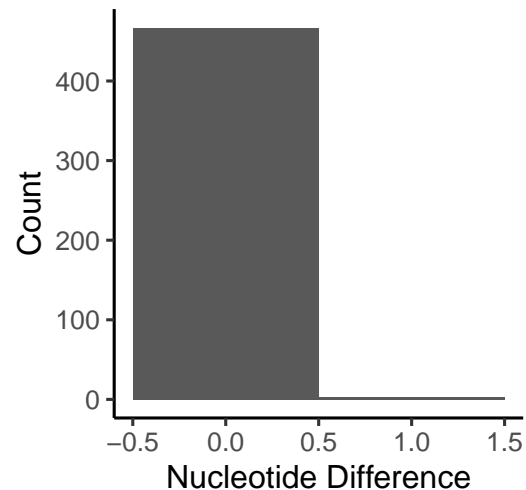
### TRBV11-2\*ap01

5401 sequences assigned  
5361 (99.3%) exact matches, in which:  
5299 unique CDR3  
13 unique J



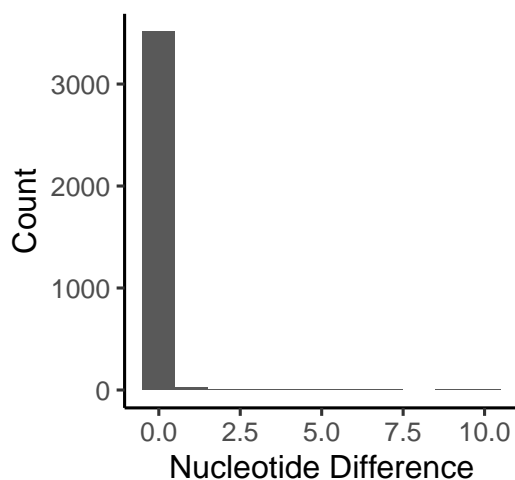
### TRBV12-2\*ap01

470 sequences assigned  
467 (99.4%) exact matches, in which:  
463 unique CDR3  
13 unique J



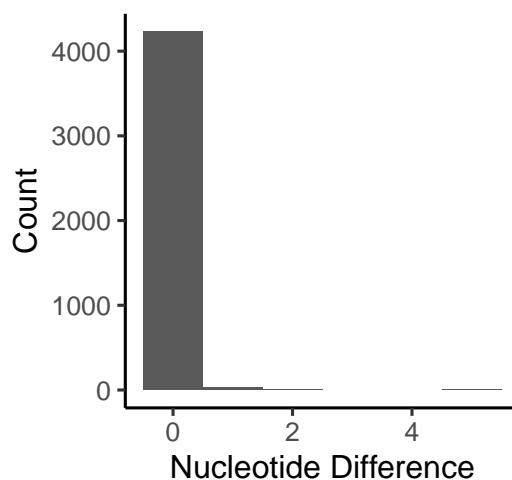
### TRBV21-1\*ap01

3563 sequences assigned  
3513 (98.6%) exact matches, in which:  
3483 unique CDR3  
13 unique J



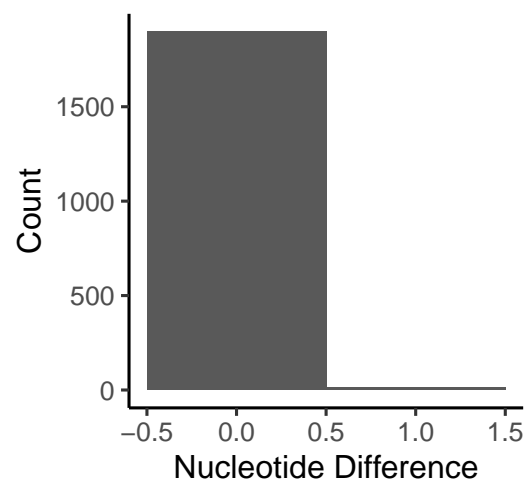
### TRBV11-3\*ap01

4265 sequences assigned  
4229 (99.2%) exact matches, in which:  
4172 unique CDR3  
13 unique J



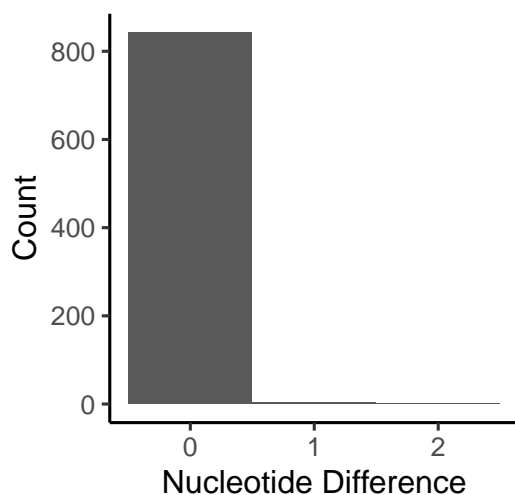
### TRBV12-5\*ap01

1909 sequences assigned  
1897 (99.4%) exact matches, in which:  
1865 unique CDR3  
13 unique J



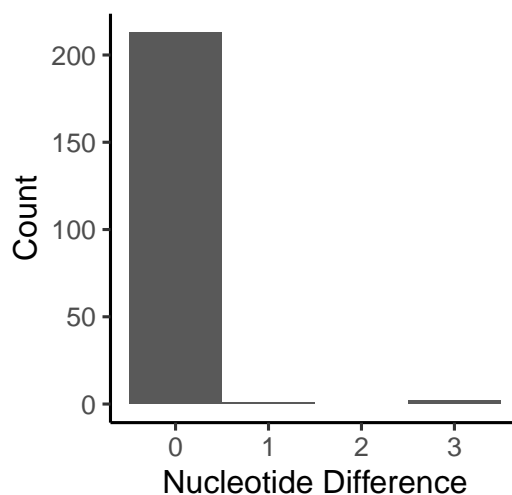
### TRBV11-1\*ap01

848 sequences assigned  
843 (99.4%) exact matches, in which:  
827 unique CDR3  
13 unique J



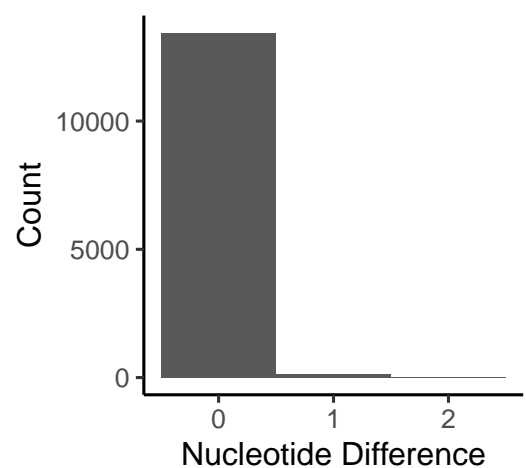
### TRBV12-1\*ap01

216 sequences assigned  
213 (98.6%) exact matches, in which:  
210 unique CDR3  
13 unique J



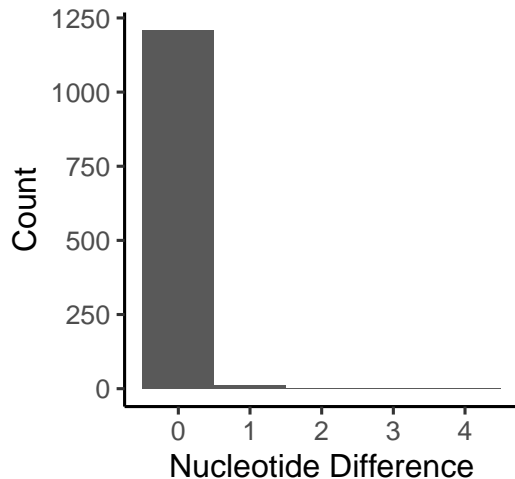
### TRBV12-34\*ap01

13579 sequences assigned  
13442 (99%) exact matches, in which:  
13238 unique CDR3  
13 unique J



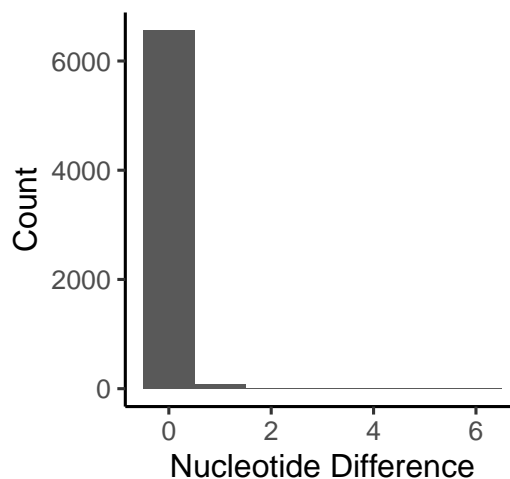
### TRBV23-1\*ap01

1225 sequences assigned  
1208 (98.6%) exact matches, in which:  
1192 unique CDR3  
13 unique J



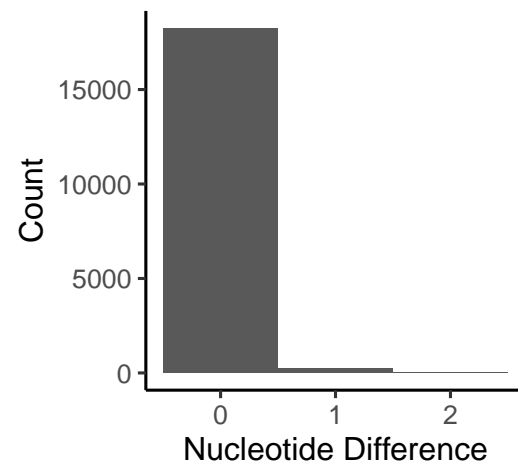
### TRBV24-1\*ap01

6663 sequences assigned  
6560 (98.5%) exact matches, in which:  
6424 unique CDR3  
13 unique J



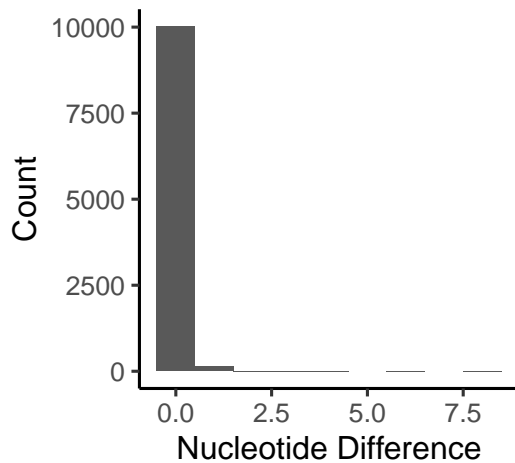
### TRBV5-1\*ap01

18484 sequences assigned  
18250 (98.7%) exact matches, in which:  
17817 unique CDR3  
13 unique J



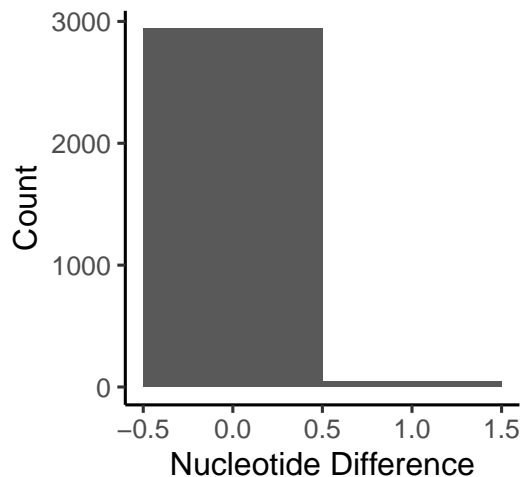
### TRBV3-12\*ap01

10171 sequences assigned  
10019 (98.5%) exact matches, in which:  
9836 unique CDR3  
14 unique J



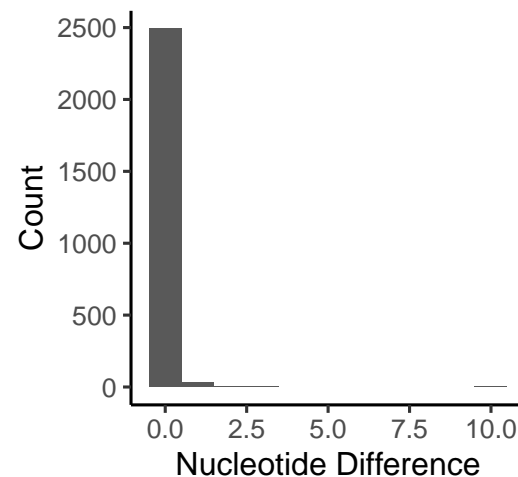
### TRBV4-2\*ap01

2989 sequences assigned  
2940 (98.4%) exact matches, in which:  
2889 unique CDR3  
13 unique J



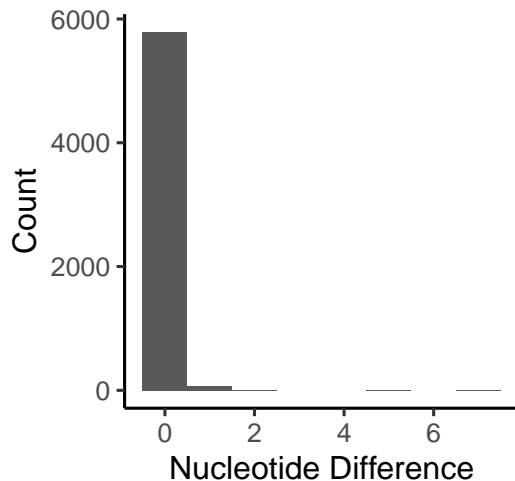
### TRBV25-1\*ap01

2529 sequences assigned  
2492 (98.5%) exact matches, in which:  
2428 unique CDR3  
13 unique J



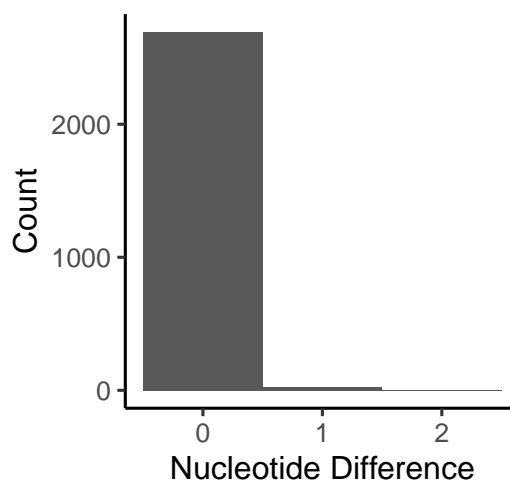
### TRBV4-1\*ap01

5858 sequences assigned  
5789 (98.8%) exact matches, in which:  
5691 unique CDR3  
14 unique J



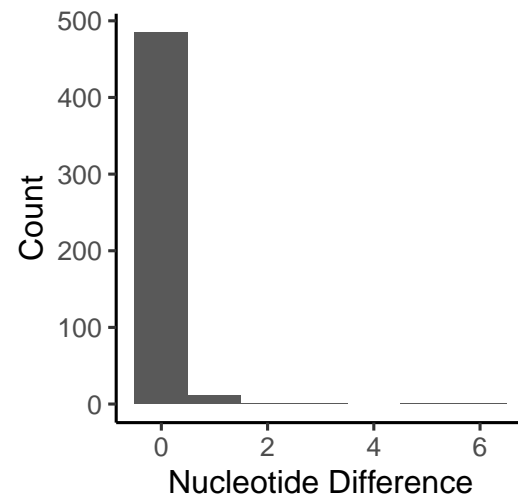
### TRBV4-3\*ap01

2722 sequences assigned  
2693 (98.9%) exact matches, in which:  
2631 unique CDR3  
13 unique J



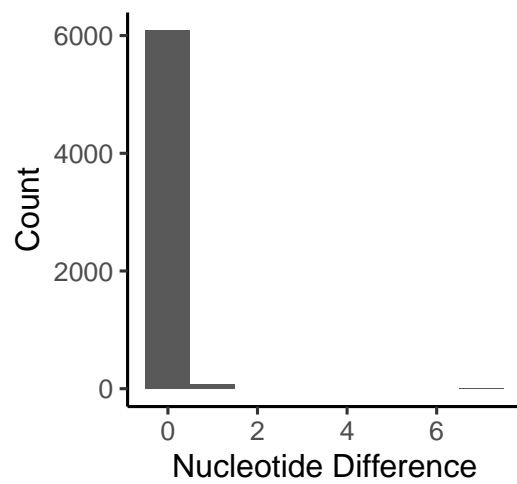
### TRBV5-3\*ap01

500 sequences assigned  
485 (97%) exact matches, in which:  
473 unique CDR3  
13 unique J



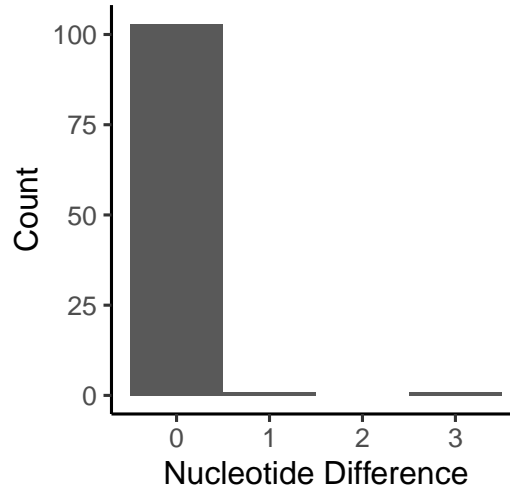
### TRBV5-4\*ap01

6173 sequences assigned  
6088 (98.6%) exact matches, in which:  
5982 unique CDR3  
13 unique J



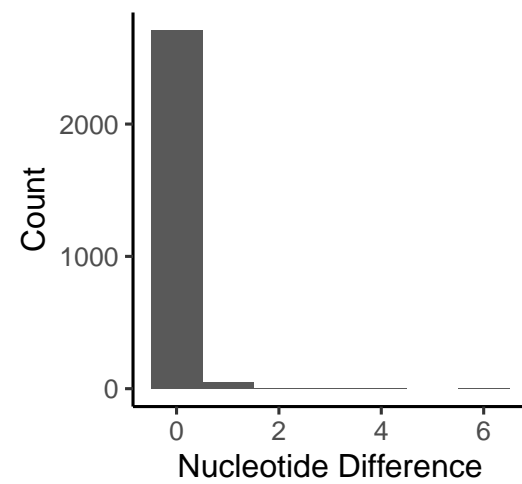
### TRBV5-7\*ap01

105 sequences assigned  
103 (98.1%) exact matches, in which:  
98 unique CDR3  
13 unique J



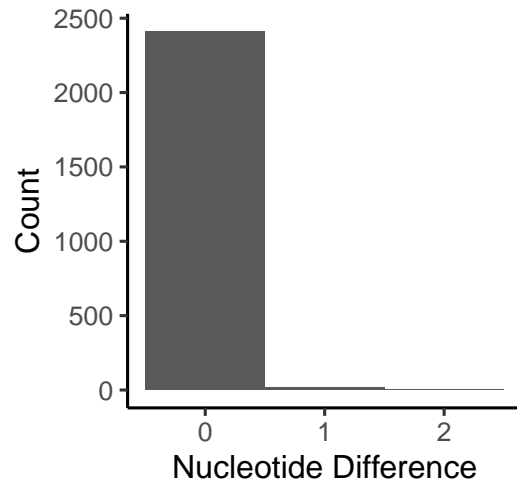
### TRBV6-4\*ap01

2765 sequences assigned  
2708 (97.9%) exact matches, in which:  
2678 unique CDR3  
13 unique J



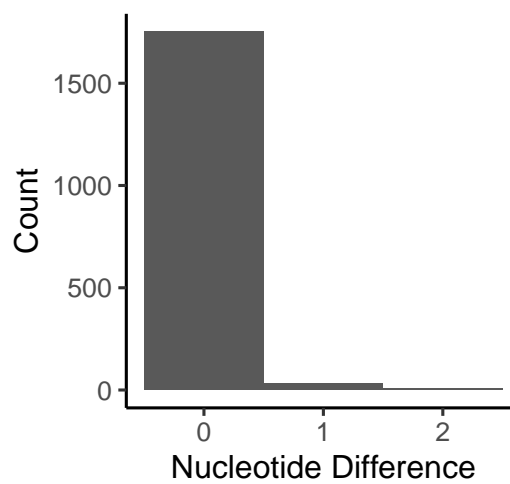
### TRBV5-5\*ap01

2431 sequences assigned  
2409 (99.1%) exact matches, in which:  
2381 unique CDR3  
13 unique J



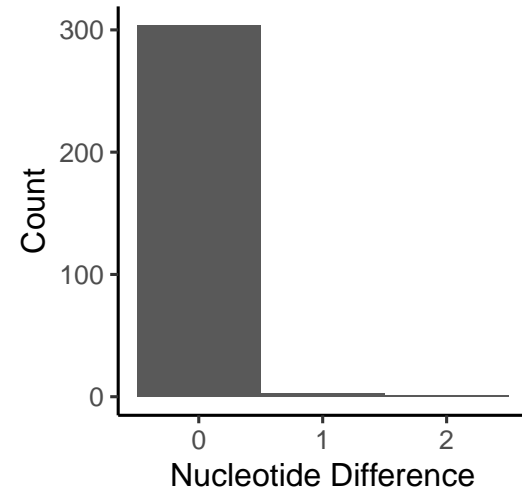
### TRBV5-8\*ap01

1787 sequences assigned  
1752 (98%) exact matches, in which:  
1728 unique CDR3  
13 unique J



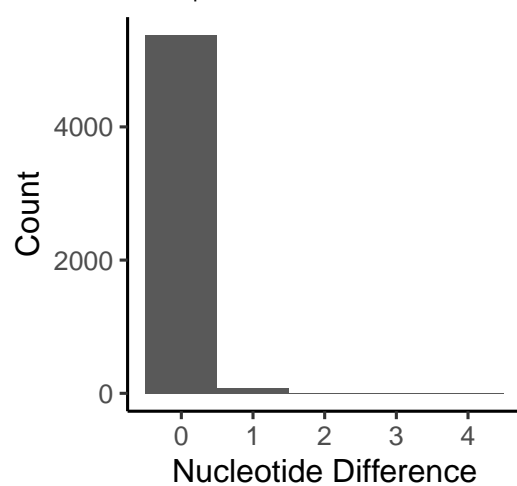
### TRBV6-7\*ap01

308 sequences assigned  
304 (98.7%) exact matches, in which:  
297 unique CDR3  
13 unique J



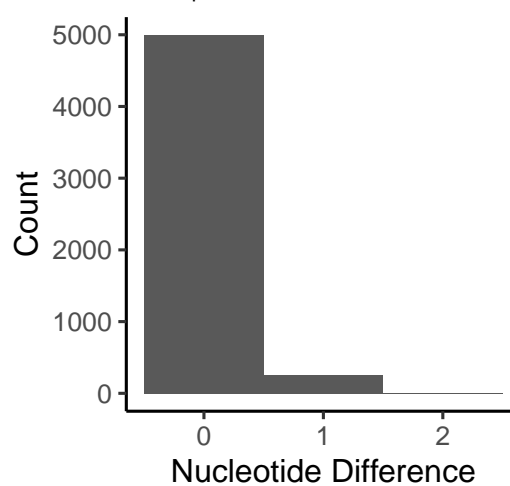
### TRBV5-6\*ap01

5464 sequences assigned  
5379 (98.4%) exact matches, in which:  
5224 unique CDR3  
13 unique J



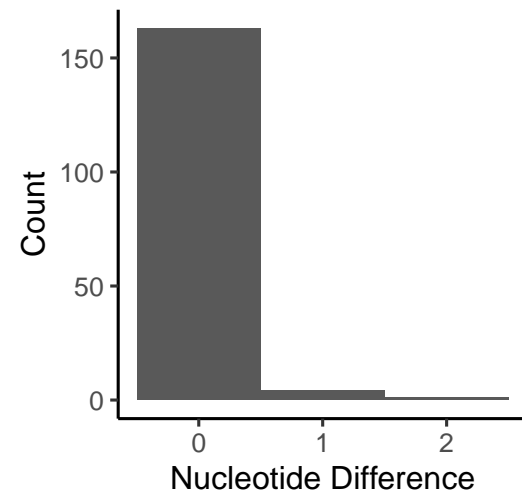
### TRBV6-1\*ap01

5251 sequences assigned  
4996 (95.1%) exact matches, in which:  
4898 unique CDR3  
13 unique J



### TRBV6-8\*ap01

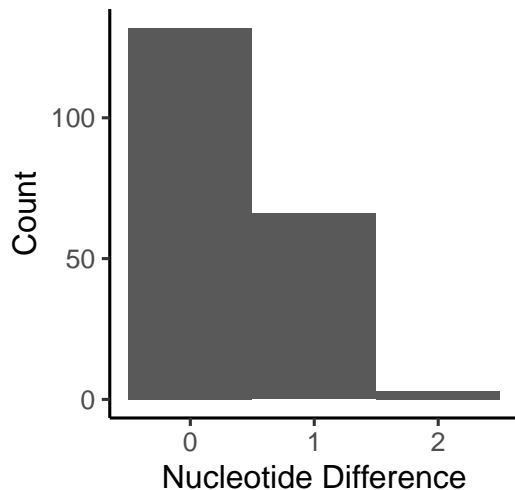
168 sequences assigned  
163 (97%) exact matches, in which:  
158 unique CDR3  
13 unique J





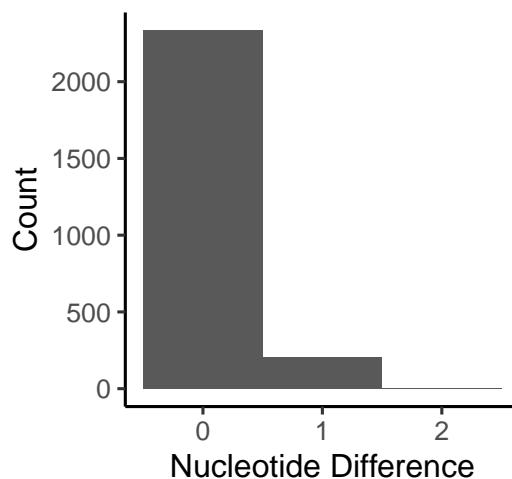
### TRBV6-9\*ap01

201 sequences assigned  
132 (65.7%) exact matches, in which:  
127 unique CDR3  
13 unique J



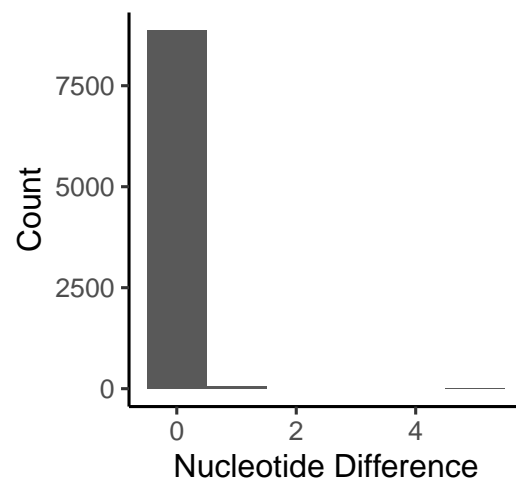
### TRBV6-56\*ap02

2543 sequences assigned  
2334 (91.8%) exact matches, in which:  
2294 unique CDR3  
13 unique J



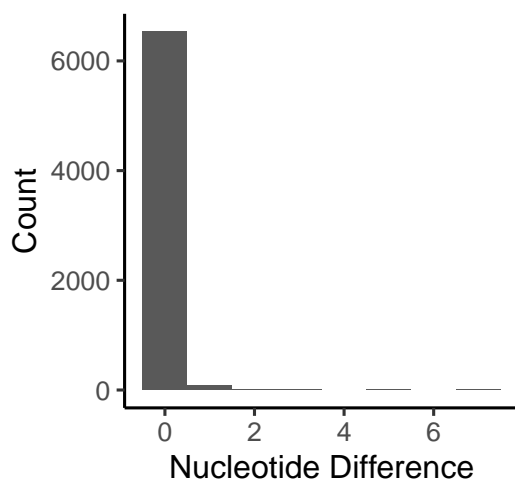
### TRBV7-2\*ap01

8939 sequences assigned  
8869 (99.2%) exact matches, in which:  
8764 unique CDR3  
13 unique J



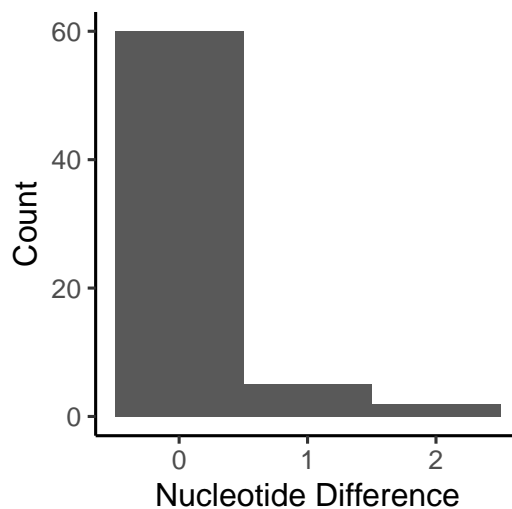
### TRBV6-23\*ap01

6620 sequences assigned  
6532 (98.7%) exact matches, in which:  
6363 unique CDR3  
13 unique J



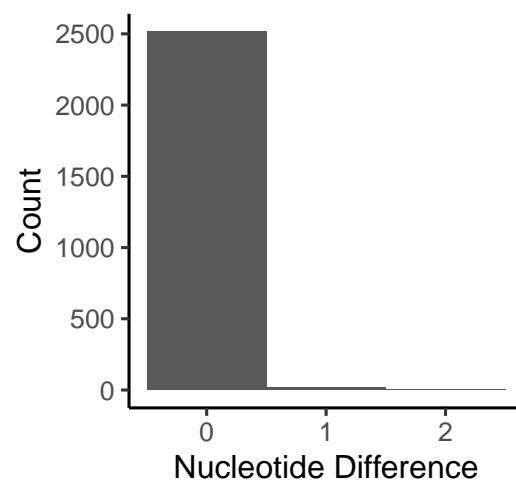
### TRBV7-1\*ap01\_G291C\_T

67 sequences assigned  
60 (89.6%) exact matches, in which:  
58 unique CDR3  
11 unique J



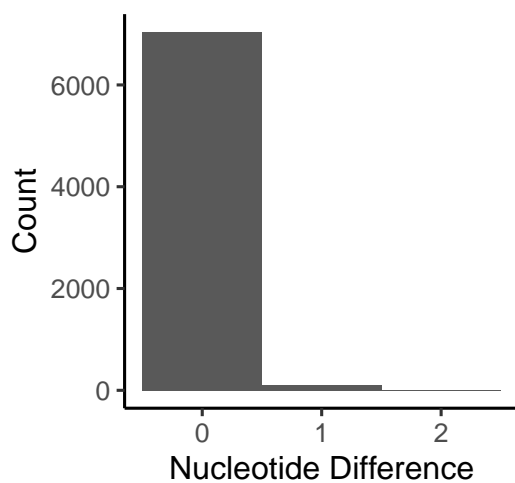
### TRBV7-3\*ap01

2535 sequences assigned  
2515 (99.2%) exact matches, in which:  
2492 unique CDR3  
13 unique J



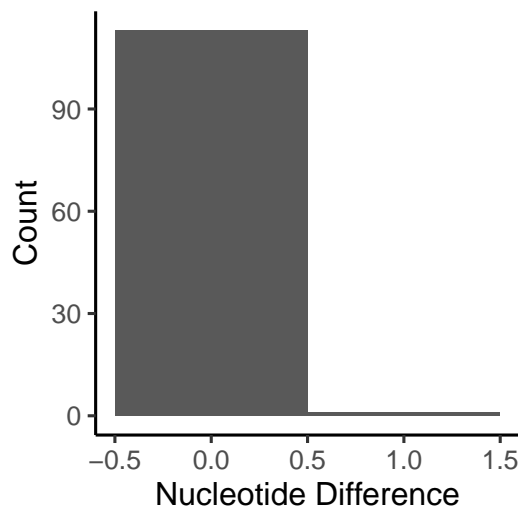
### TRBV6-56\*ap01

7144 sequences assigned  
7039 (98.5%) exact matches, in which:  
6866 unique CDR3  
13 unique J



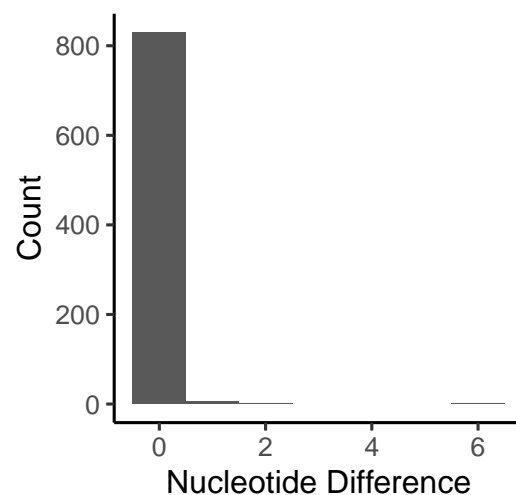
### TRBV7-1\*ap01\_G291C\_T

114 sequences assigned  
113 (99.1%) exact matches, in which:  
112 unique CDR3  
13 unique J



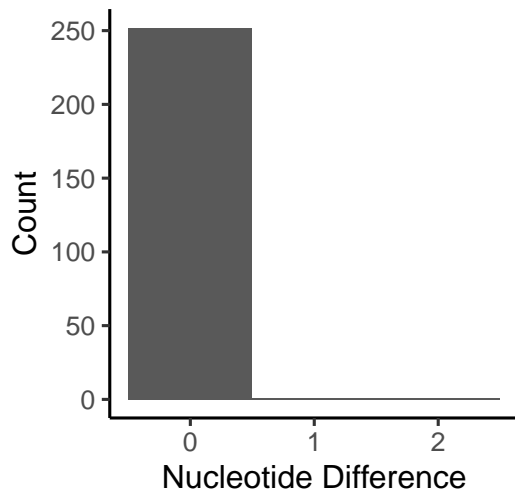
### TRBV7-3\*ap03

838 sequences assigned  
830 (99%) exact matches, in which:  
811 unique CDR3  
13 unique J



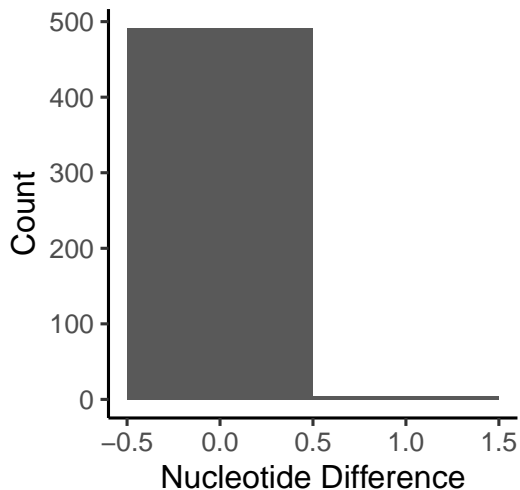
### TRBV7-4\*ap01

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



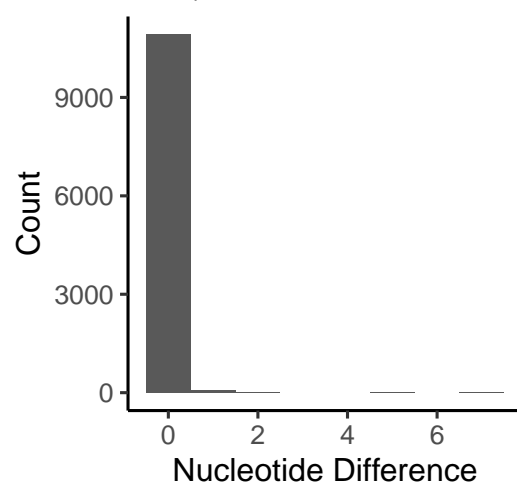
### TRBV7-7\*ap01\_C315T

497 sequences assigned  
492 (99%) exact matches, in which:  
487 unique CDR3  
13 unique J



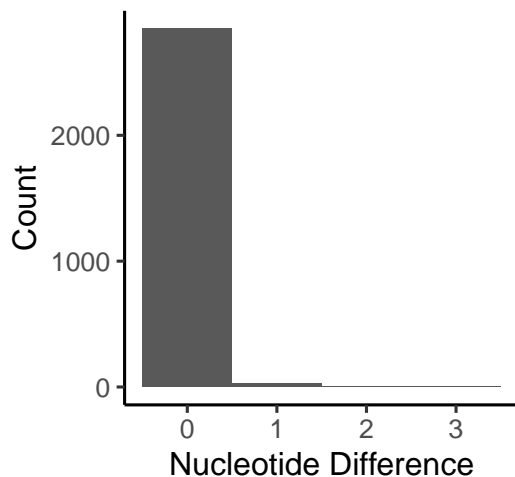
### TRBV7-9\*ap01

11001 sequences assigned  
10921 (99.3%) exact matches, in which:  
10805 unique CDR3  
13 unique J



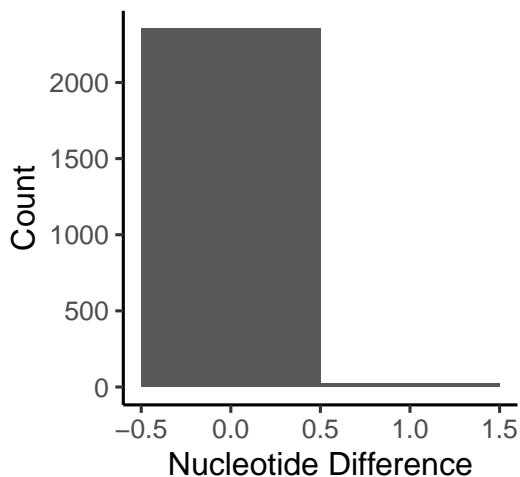
### TRBV7-6\*ap01

2880 sequences assigned  
2847 (98.9%) exact matches, in which:  
2793 unique CDR3  
13 unique J



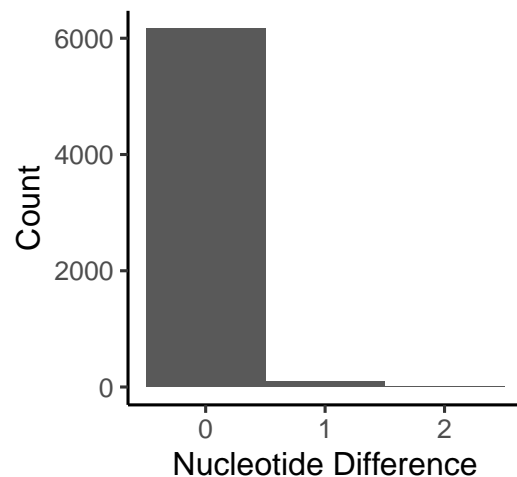
### TRBV7-8\*ap01

2375 sequences assigned  
2353 (99.1%) exact matches, in which:  
2313 unique CDR3  
13 unique J



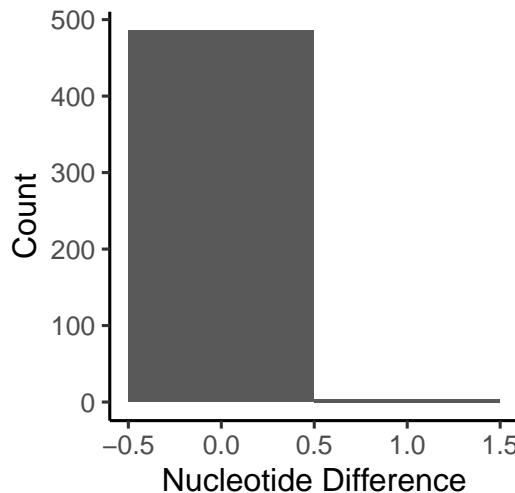
### TRBV29-1\*ap01

6259 sequences assigned  
6164 (98.5%) exact matches, in which:  
6034 unique CDR3  
13 unique J



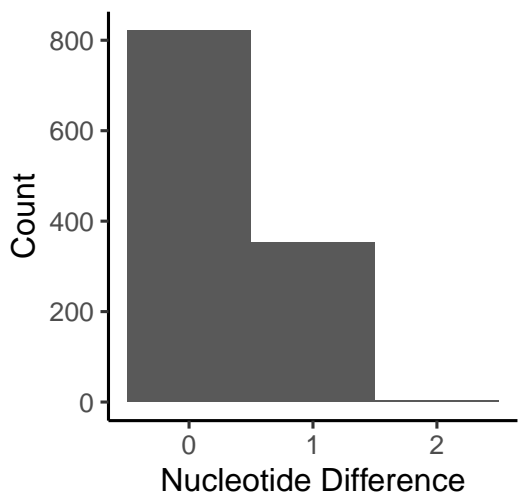
### TRBV7-7\*ap01

490 sequences assigned  
486 (99.2%) exact matches, in which:  
477 unique CDR3  
13 unique J



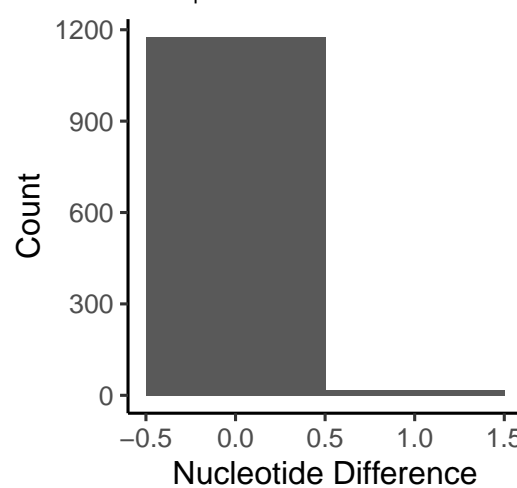
### TRBV7-8\*ap03

1179 sequences assigned  
822 (69.7%) exact matches, in which:  
808 unique CDR3  
13 unique J

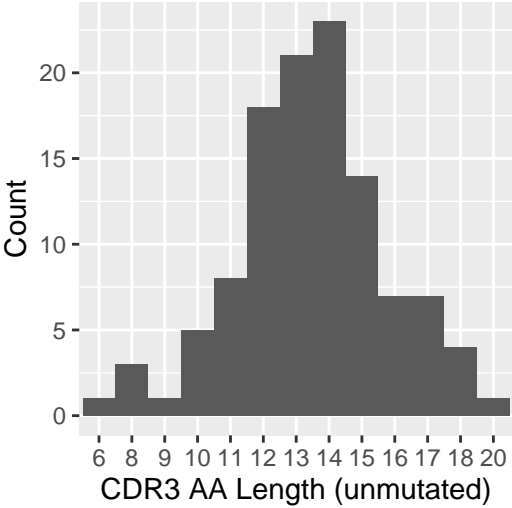


### TRBV29-1\*ap02

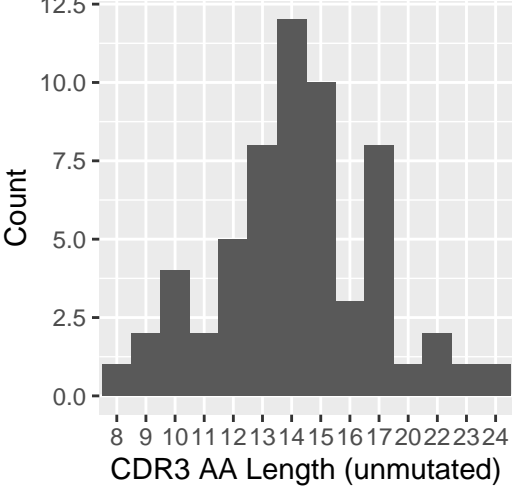
1194 sequences assigned  
1176 (98.5%) exact matches, in which:  
1148 unique CDR3  
13 unique J



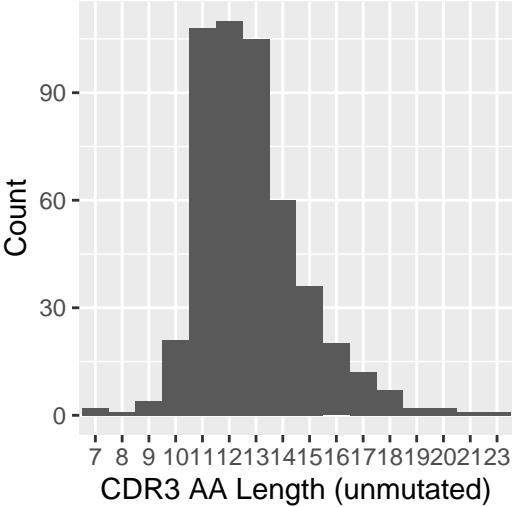
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]