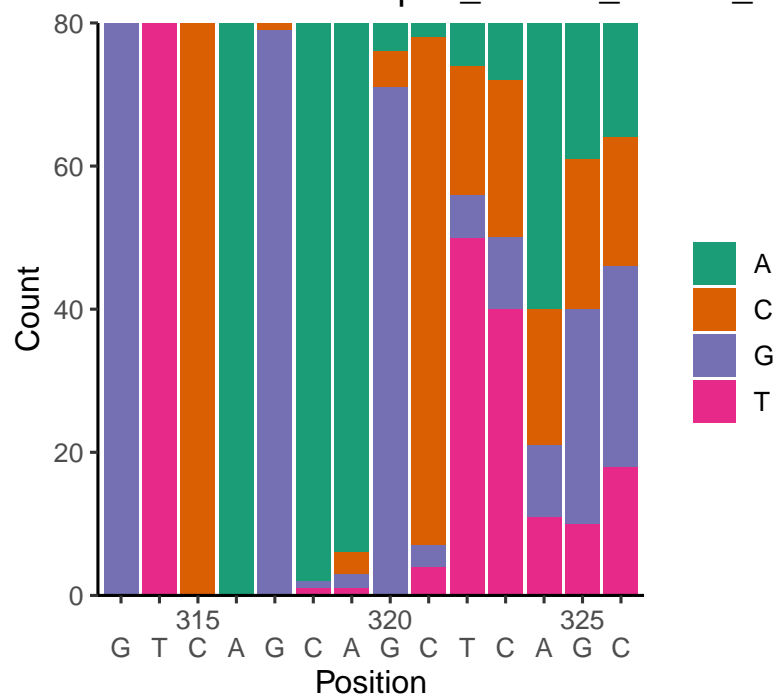
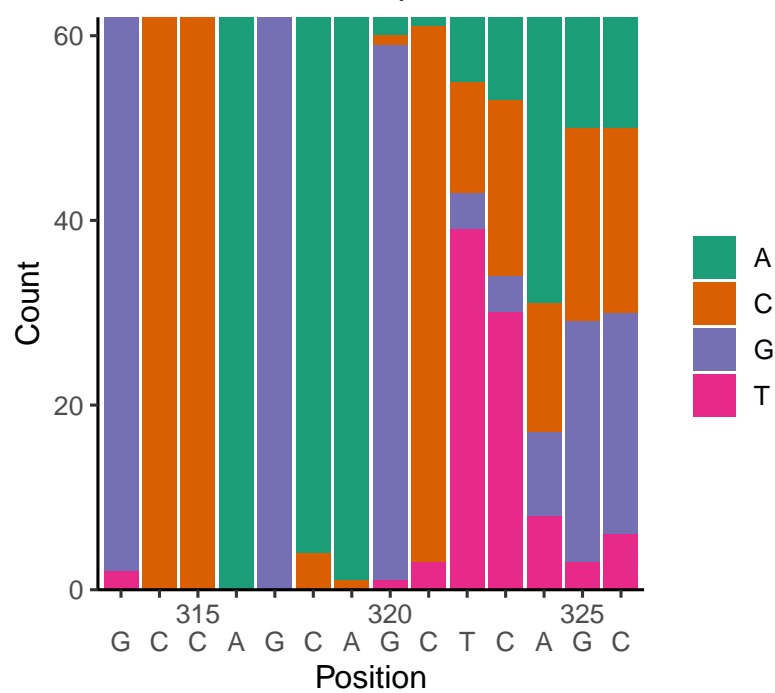


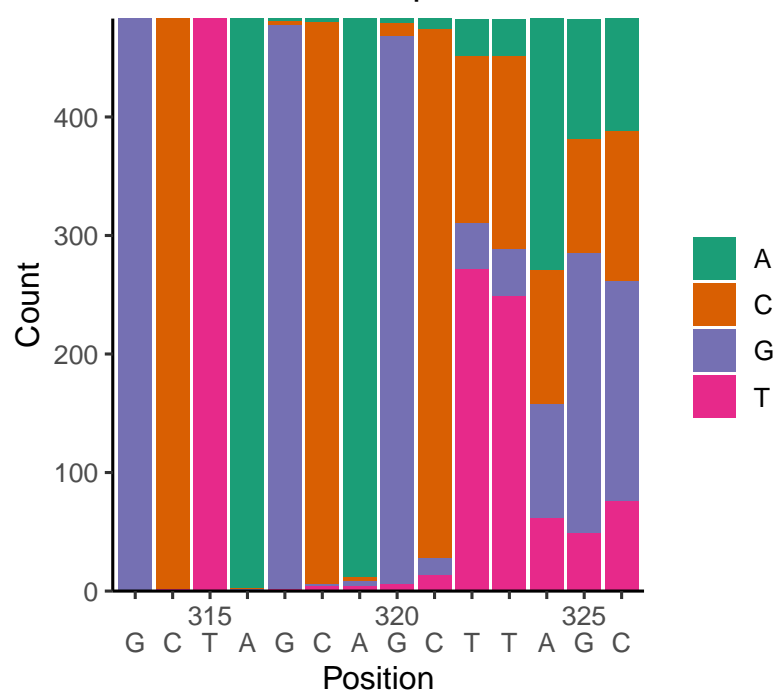
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



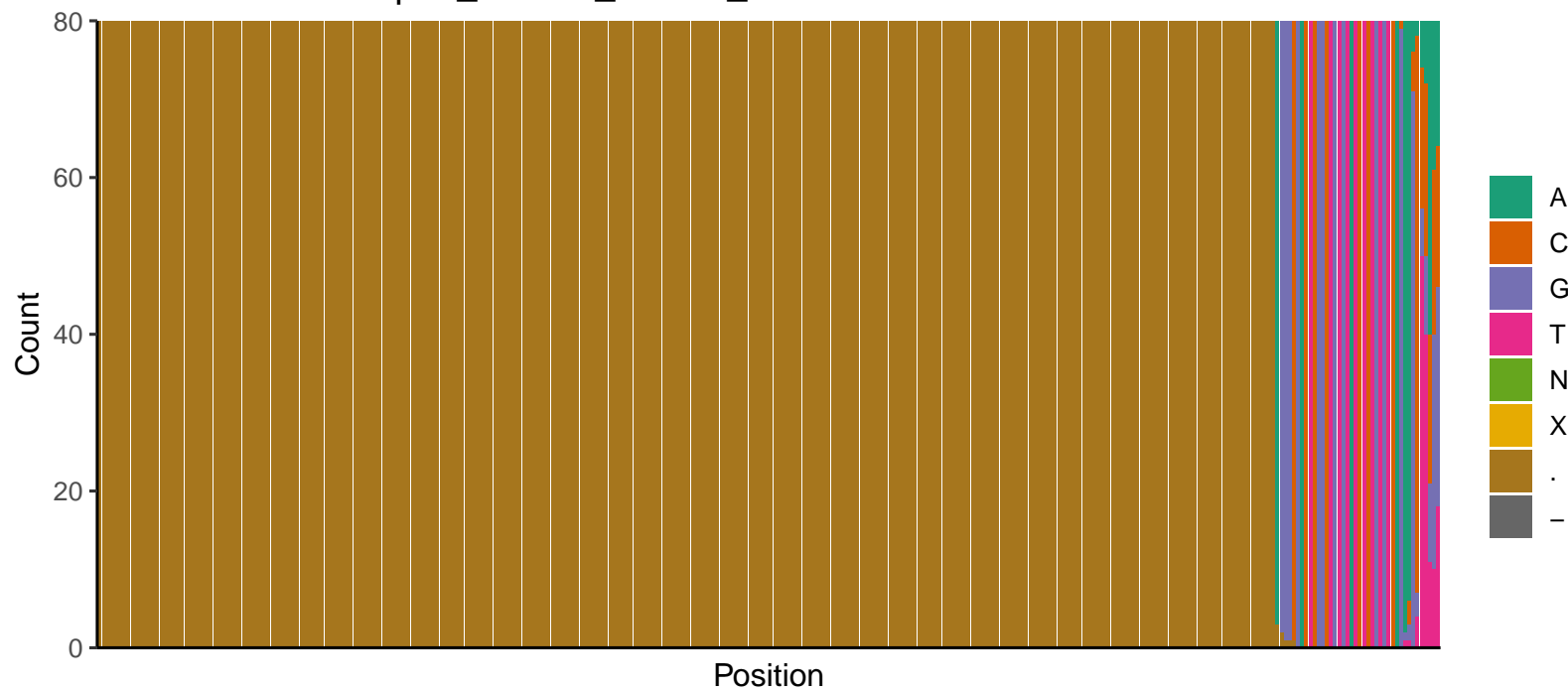
Gene TRBV7-1\*ap01\_G291C\_T296C



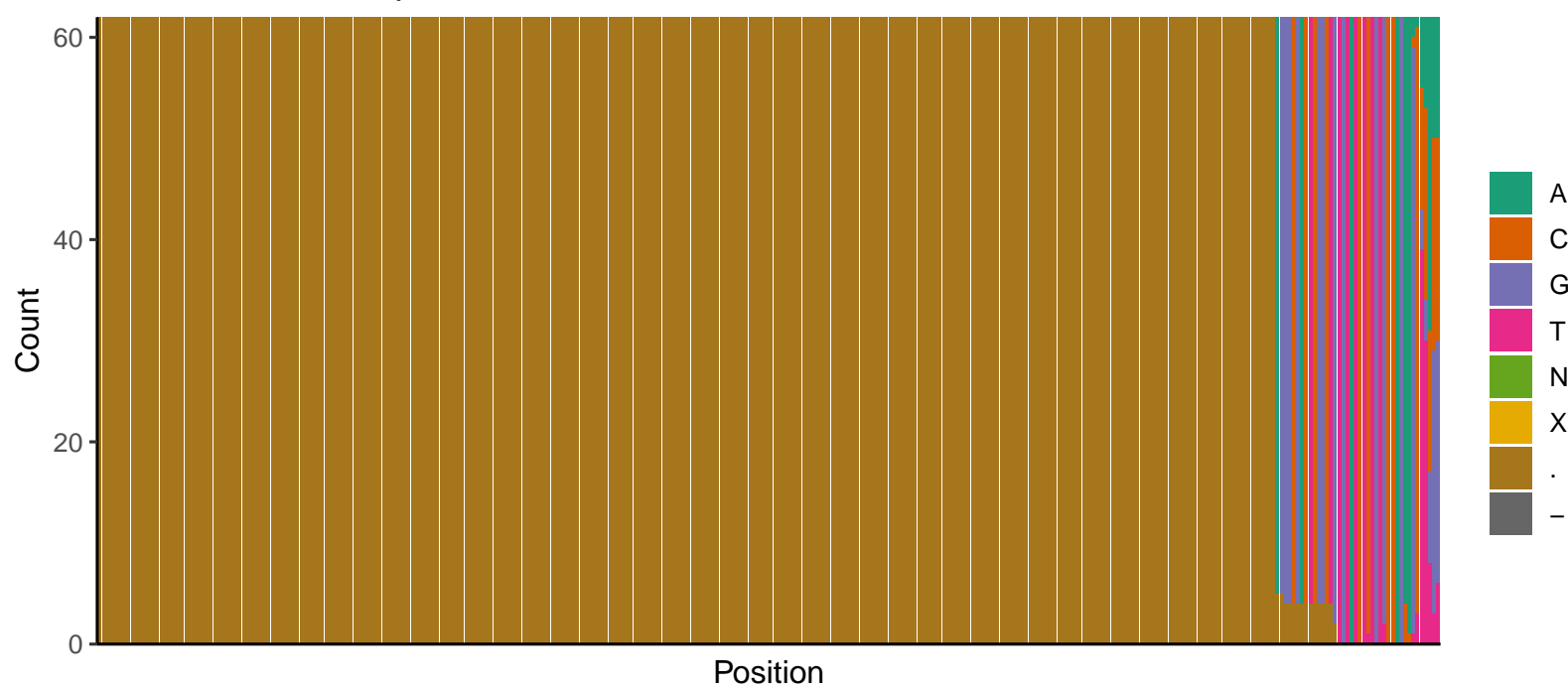
Gene TRBV7-7\*ap01\_C315T



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



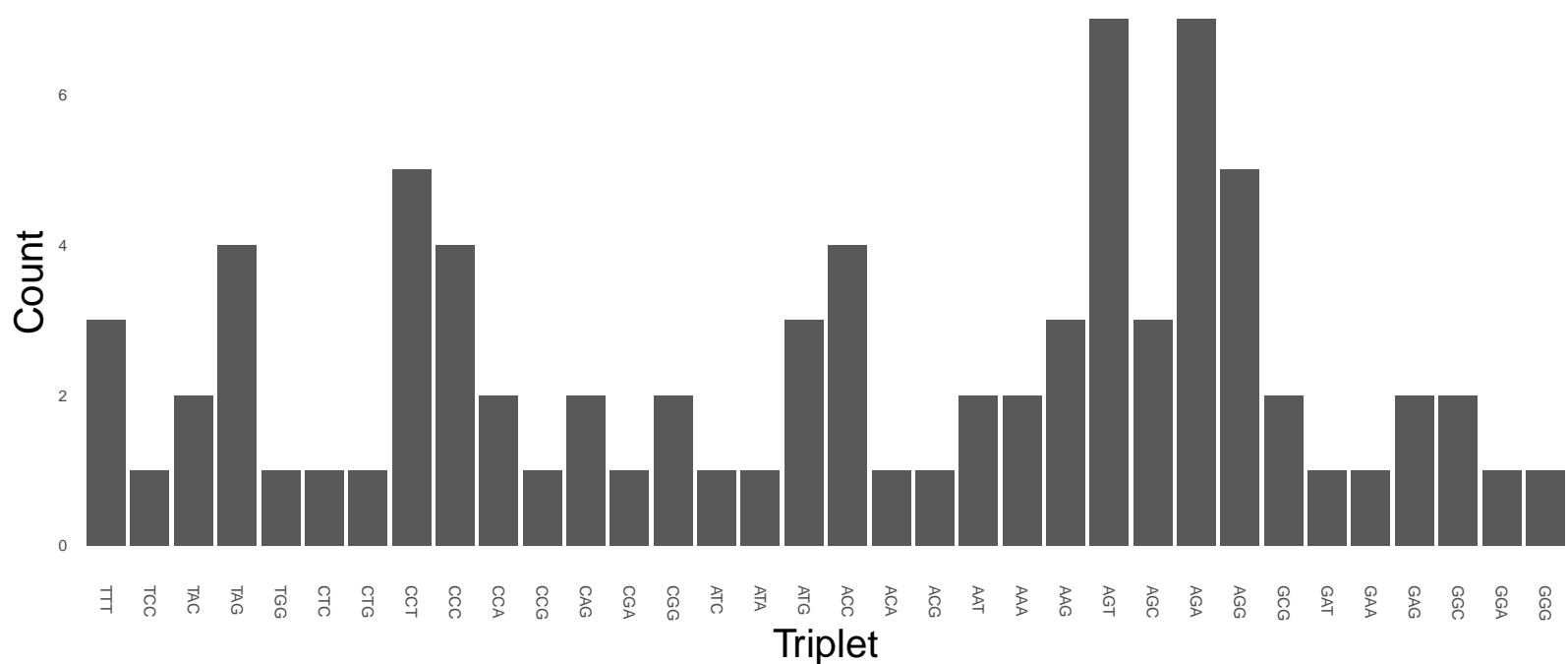
Gene TRBV7-1\*ap01\_G291C\_T296C



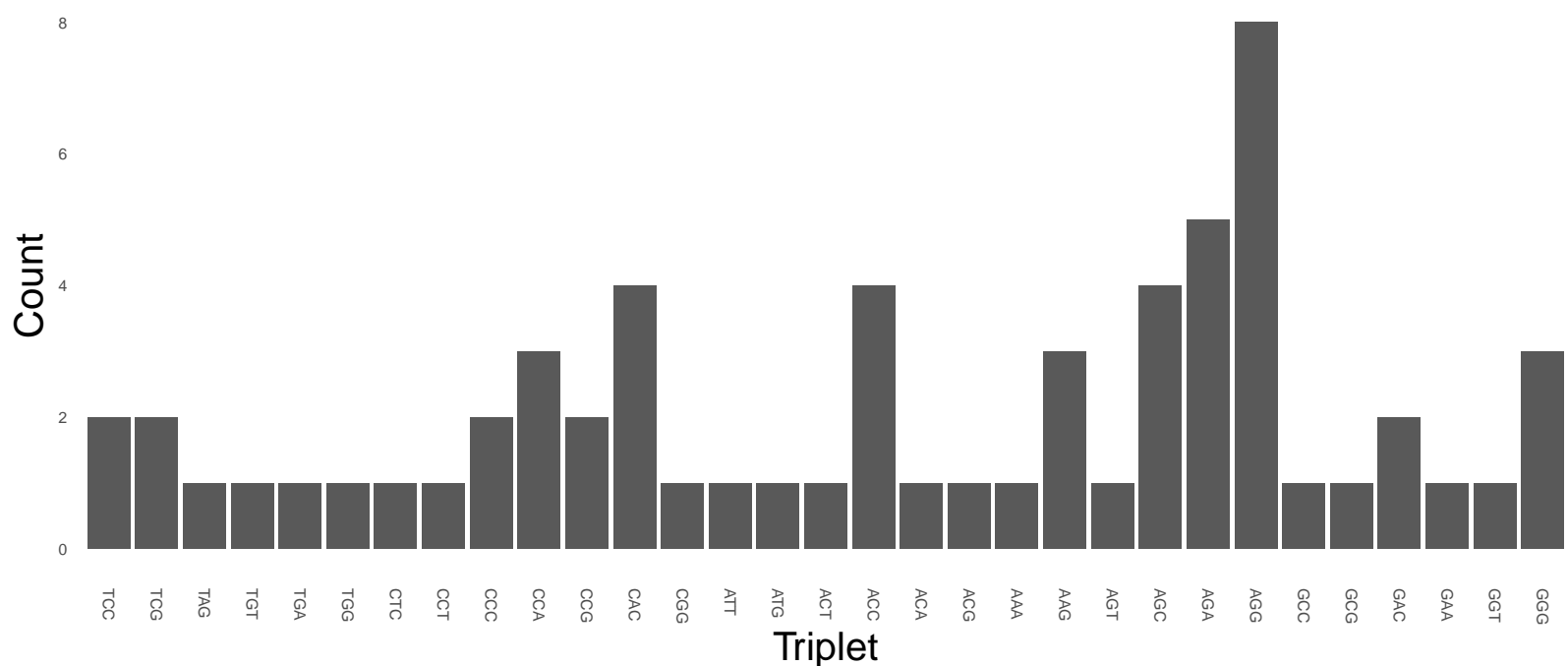
Gene TRBV7-7\*ap01\_C315T



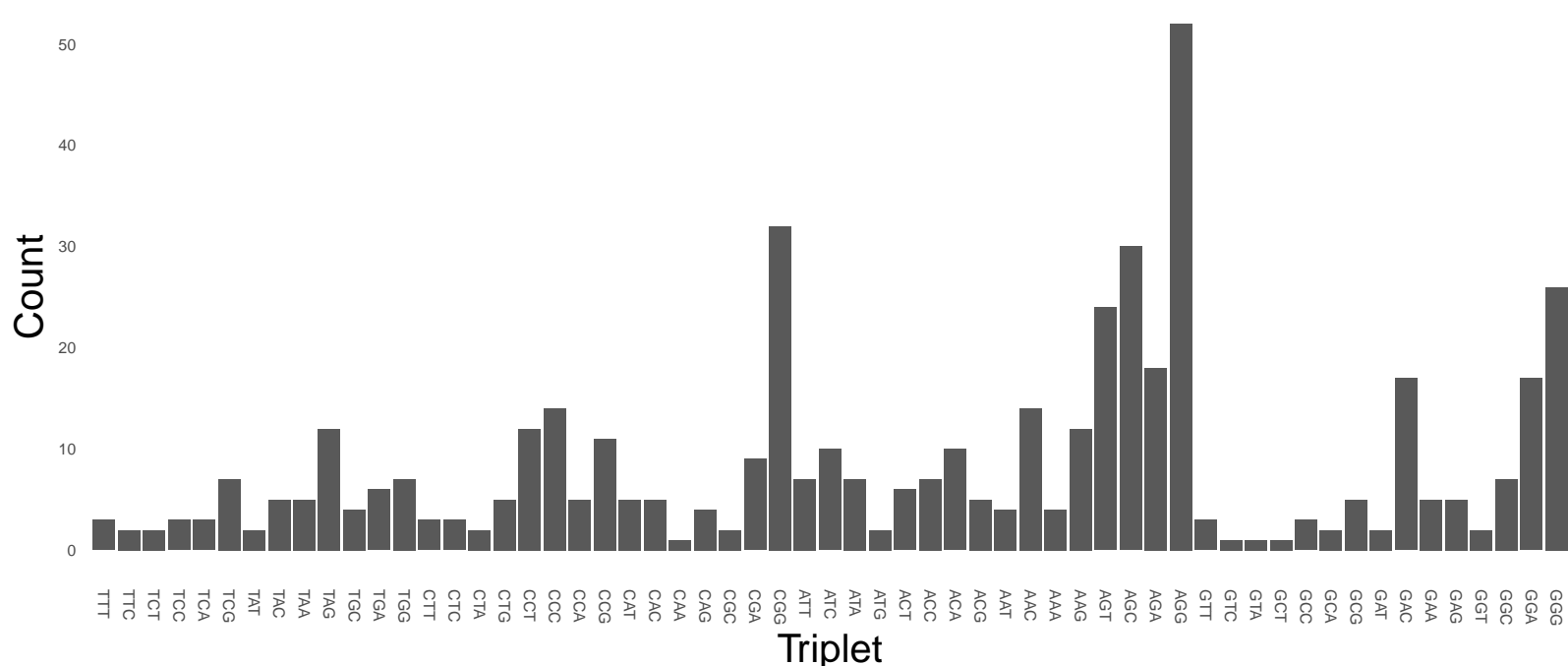
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

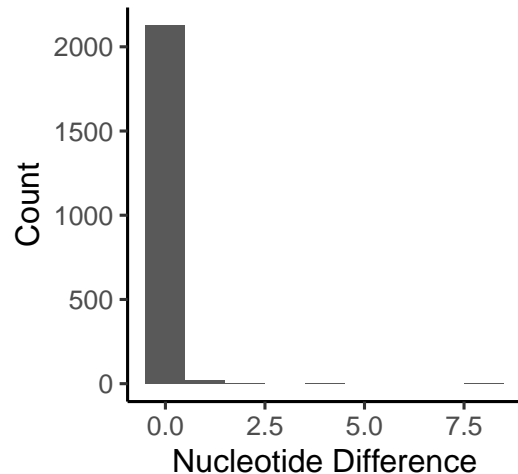


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



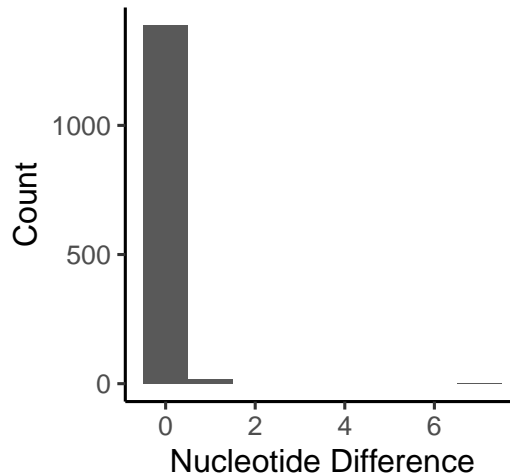
### TRBV10-1\*ap01

2150 sequences assigned  
2127 (98.9%) exact matches, in which:  
2088 unique CDR3  
13 unique J



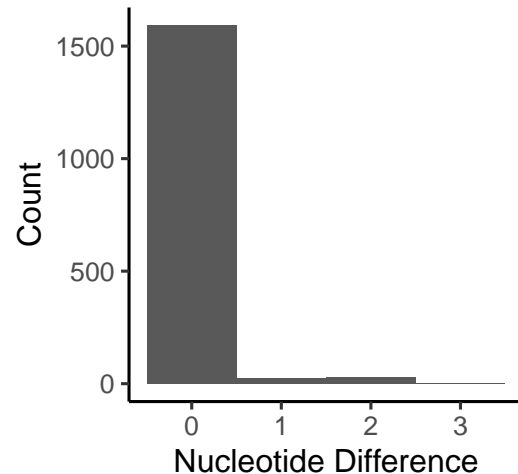
### TRBV10-2\*ap01

1407 sequences assigned  
1387 (98.6%) exact matches, in which:  
1369 unique CDR3  
13 unique J



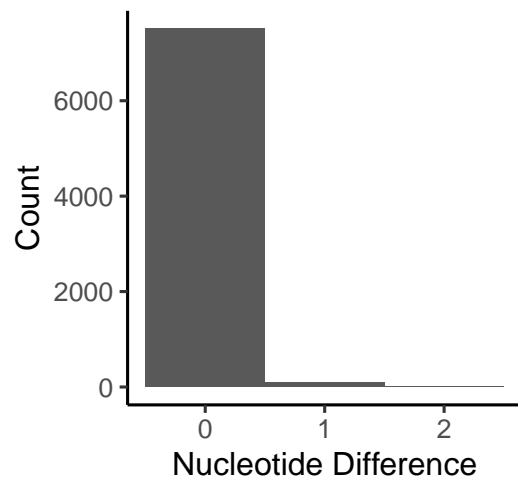
### TRBV13\*ap01

1645 sequences assigned  
1592 (96.8%) exact matches, in which:  
1564 unique CDR3  
13 unique J



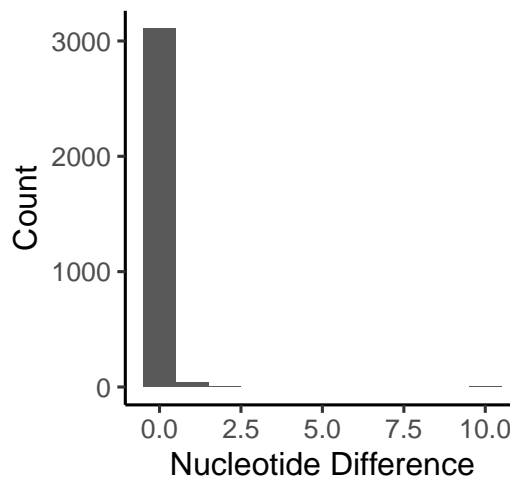
### TRBV20-1\*ap01

7606 sequences assigned  
7509 (98.7%) exact matches, in which:  
7396 unique CDR3  
13 unique J



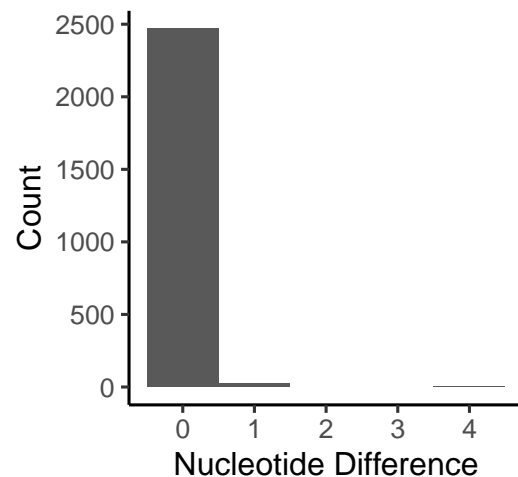
### TRBV10-3\*ap01

3146 sequences assigned  
3106 (98.7%) exact matches, in which:  
3034 unique CDR3  
13 unique J



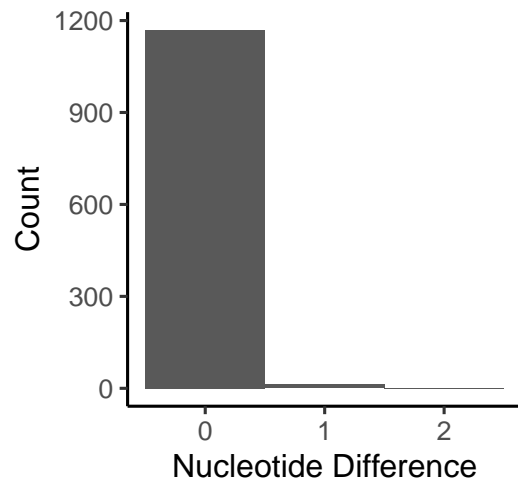
### TRBV14\*ap01

2491 sequences assigned  
2469 (99.1%) exact matches, in which:  
2432 unique CDR3  
13 unique J



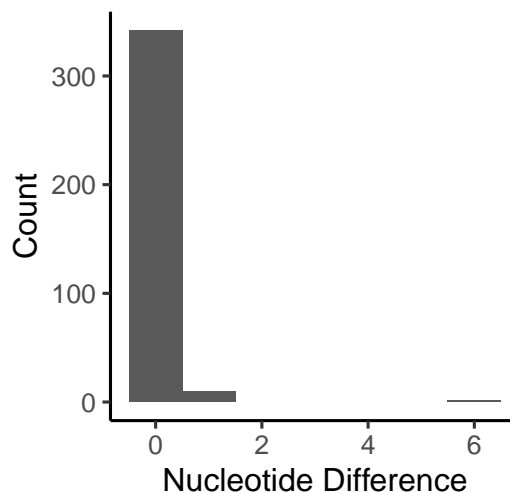
### TRBV20-1\*ap02

1183 sequences assigned  
1169 (98.8%) exact matches, in which:  
1155 unique CDR3  
13 unique J



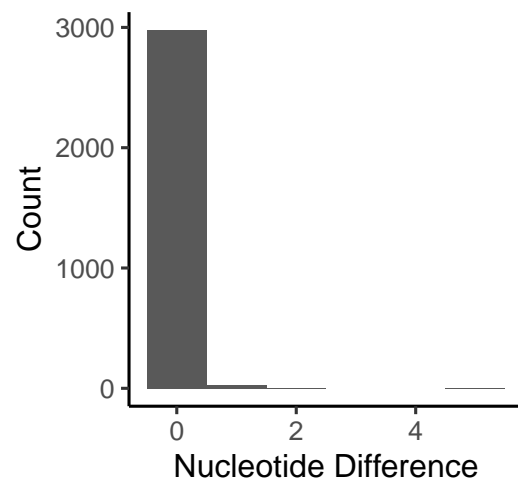
### TRBV1\*ap01

353 sequences assigned  
342 (96.9%) exact matches, in which:  
336 unique CDR3  
13 unique J



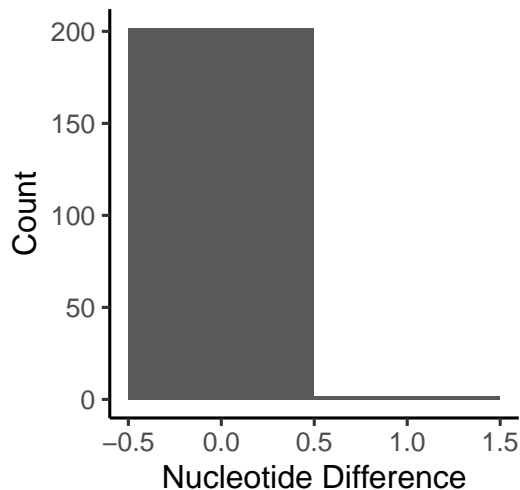
### TRBV15\*ap02

3009 sequences assigned  
2978 (99%) exact matches, in which:  
2911 unique CDR3  
13 unique J



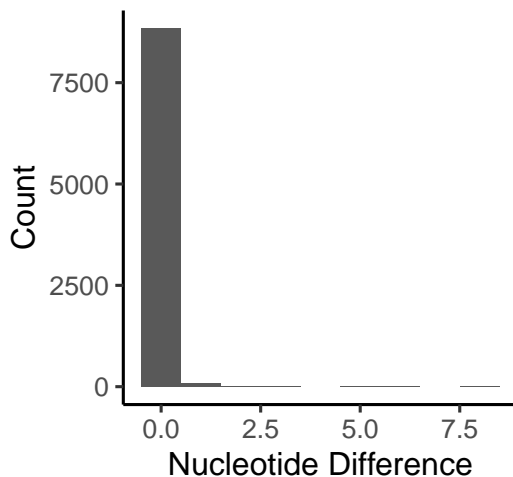
### TRBV16\*ap01

204 sequences assigned  
202 (99%) exact matches, in which:  
200 unique CDR3  
12 unique J



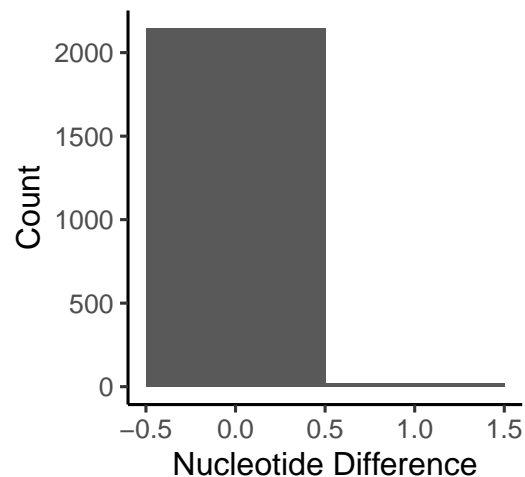
### TRBV2\*ap01

8935 sequences assigned  
8839 (98.9%) exact matches, in which:  
8672 unique CDR3  
13 unique J



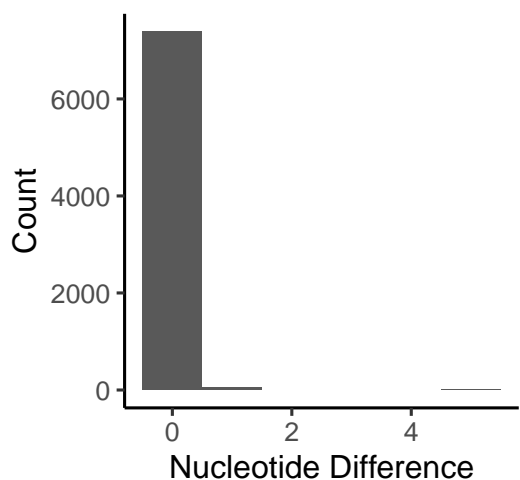
### TRBV28\*ap01

2164 sequences assigned  
2145 (99.1%) exact matches, in which:  
2111 unique CDR3  
13 unique J



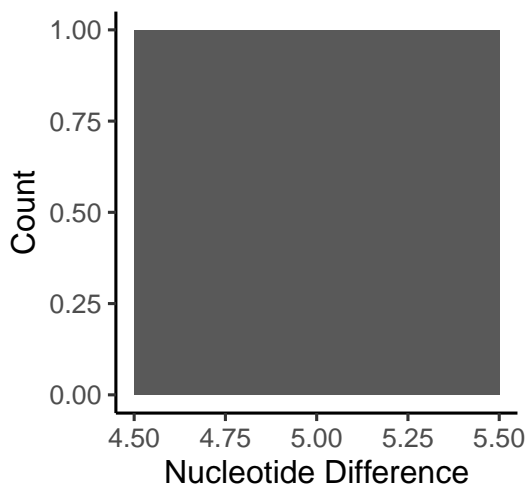
### TRBV18\*ap01

7439 sequences assigned  
7385 (99.3%) exact matches, in which:  
7296 unique CDR3  
13 unique J



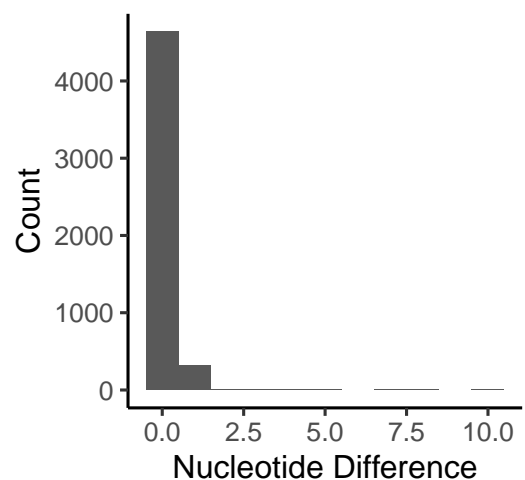
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



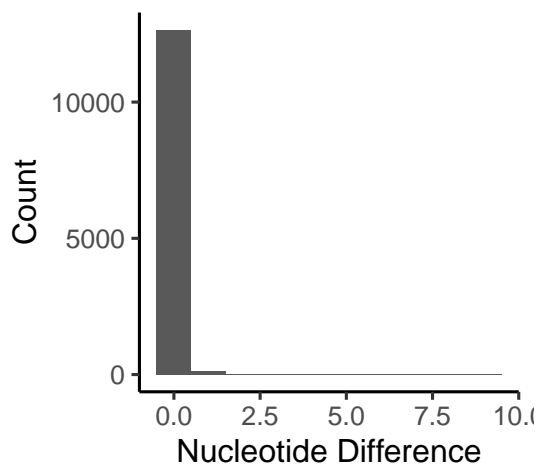
### TRBV30\*ap01

4978 sequences assigned  
4637 (93.1%) exact matches, in which:  
4587 unique CDR3  
13 unique J



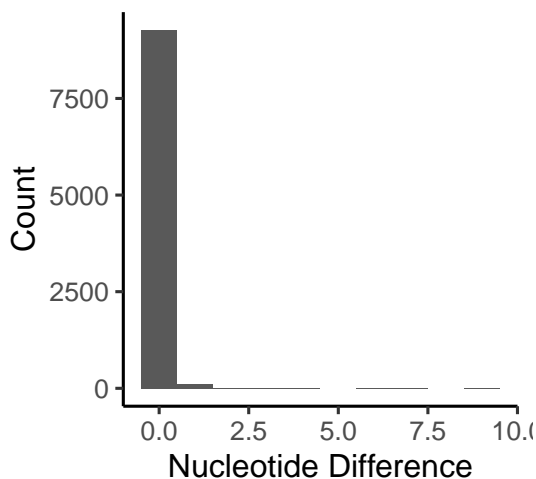
### TRBV19\*ap01

12812 sequences assigned  
12654 (98.8%) exact matches, in which:  
12530 unique CDR3  
13 unique J



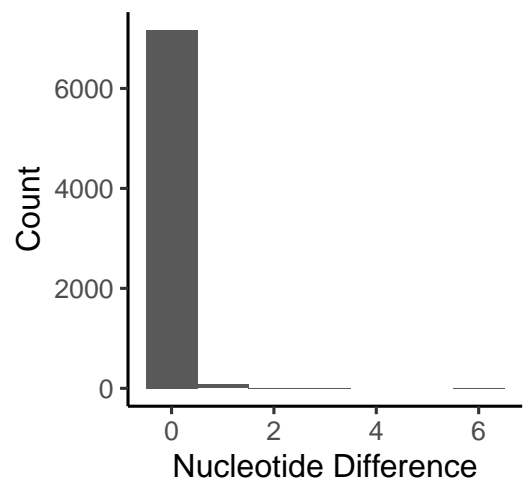
### TRBV27\*ap01

9403 sequences assigned  
9270 (98.6%) exact matches, in which:  
9089 unique CDR3  
13 unique J



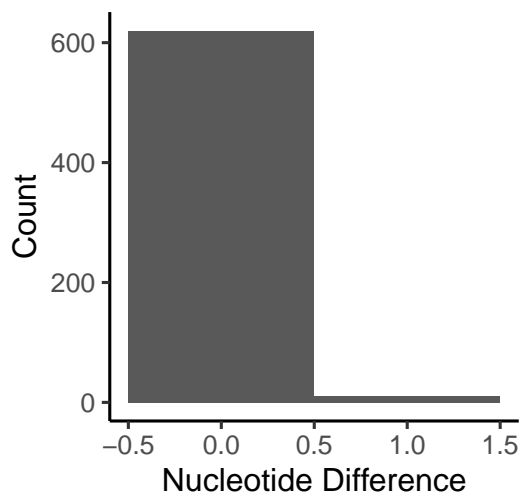
### TRBV9\*ap01

7251 sequences assigned  
7168 (98.9%) exact matches, in which:  
7073 unique CDR3  
13 unique J



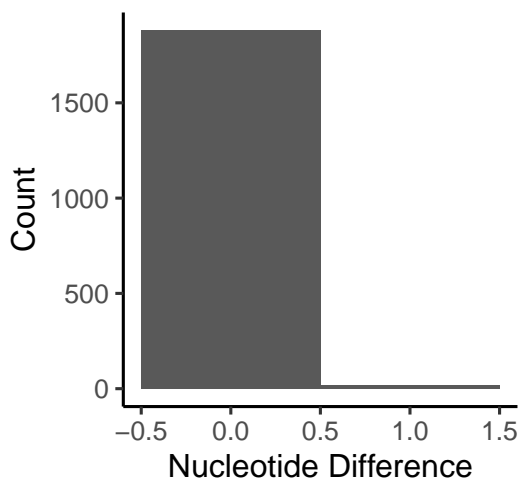
### TRBV11-1\*ap01

631 sequences assigned  
620 (98.3%) exact matches, in which:  
611 unique CDR3  
13 unique J



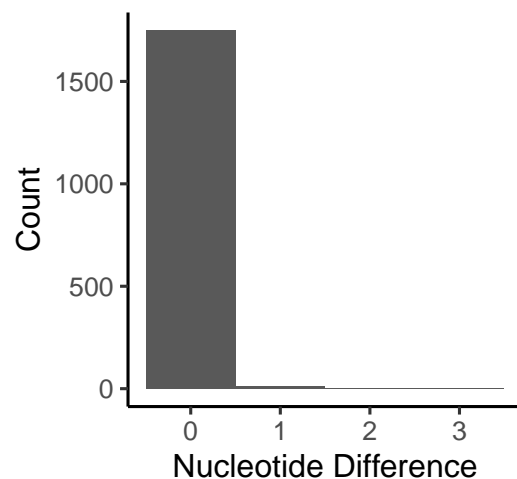
### TRBV11-3\*ap01

1900 sequences assigned  
1880 (98.9%) exact matches, in which:  
1846 unique CDR3  
13 unique J



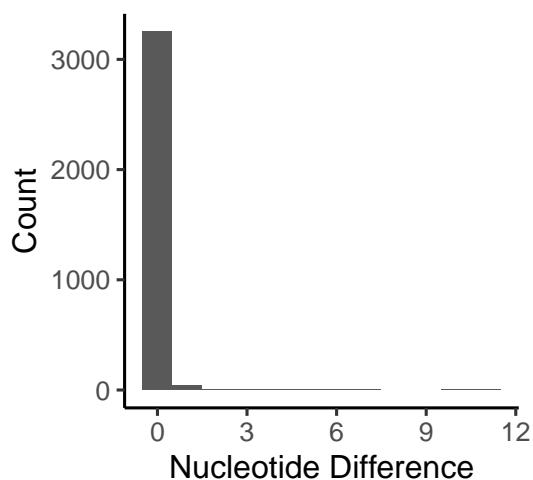
### TRBV12-5\*ap01

1766 sequences assigned  
1749 (99%) exact matches, in which:  
1707 unique CDR3  
13 unique J



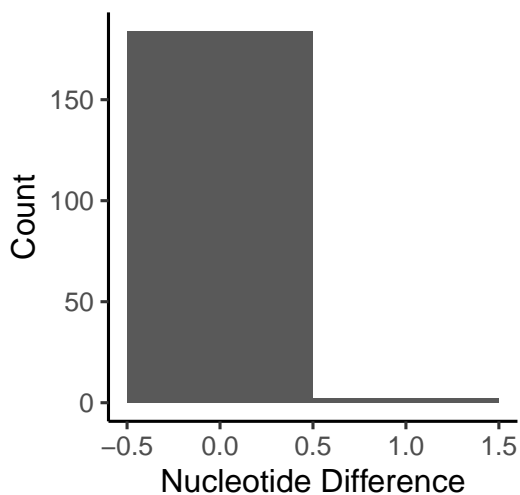
### TRBV21-1\*ap01

3323 sequences assigned  
3251 (97.8%) exact matches, in which:  
3203 unique CDR3  
13 unique J



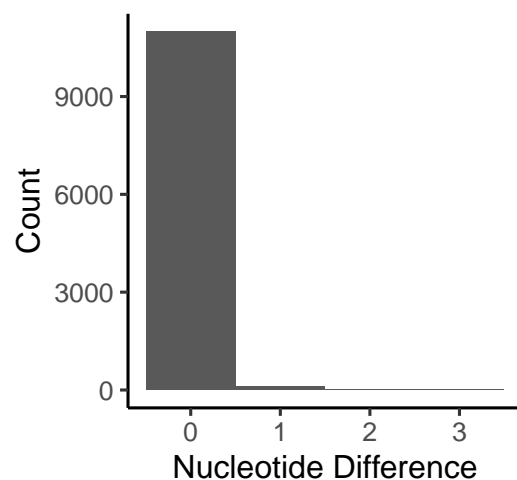
### TRBV12-1\*ap01

186 sequences assigned  
184 (98.9%) exact matches, in which:  
180 unique CDR3  
13 unique J



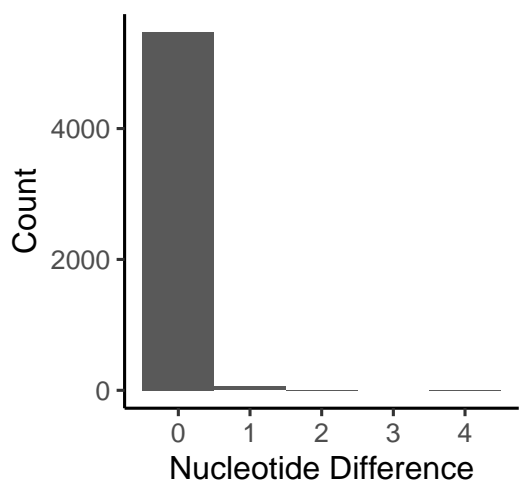
### TRBV12-34\*ap01

11111 sequences assigned  
10987 (98.9%) exact matches, in which:  
10804 unique CDR3  
13 unique J



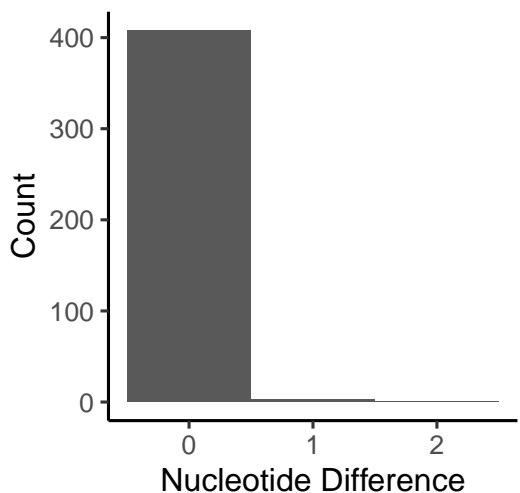
### TRBV11-2\*ap01

5536 sequences assigned  
5475 (98.9%) exact matches, in which:  
5367 unique CDR3  
13 unique J



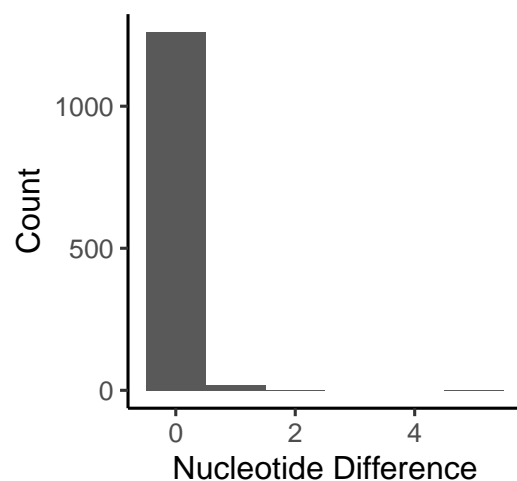
### TRBV12-2\*ap01

412 sequences assigned  
408 (99%) exact matches, in which:  
405 unique CDR3  
13 unique J



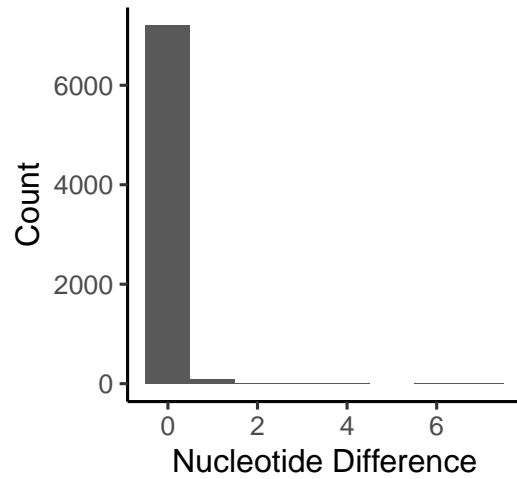
### TRBV23-1\*ap01

1282 sequences assigned  
1261 (98.4%) exact matches, in which:  
1241 unique CDR3  
13 unique J



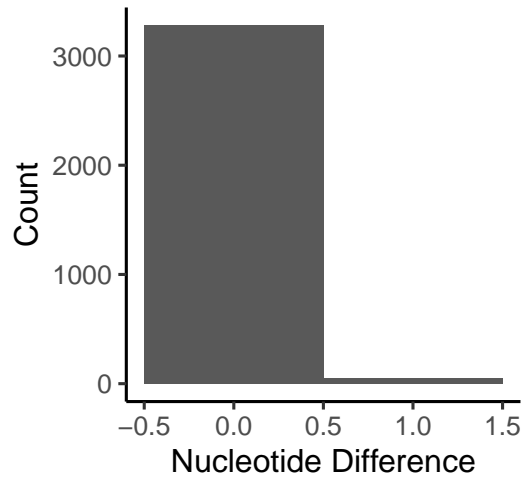
### TRBV3-12\*ap01

7314 sequences assigned  
7204 (98.5%) exact matches, in which:  
7073 unique CDR3  
13 unique J



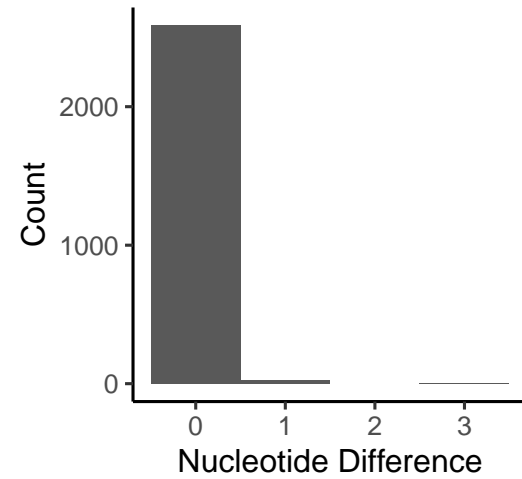
### TRBV4-2\*ap01

3333 sequences assigned  
3280 (98.4%) exact matches, in which:  
3223 unique CDR3  
13 unique J



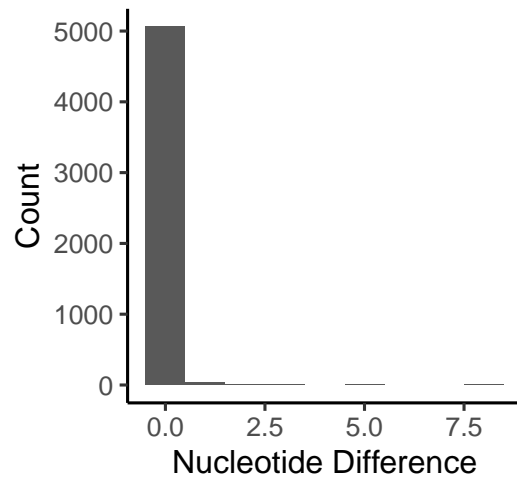
### TRBV25-1\*ap01

2613 sequences assigned  
2587 (99%) exact matches, in which:  
2546 unique CDR3  
13 unique J



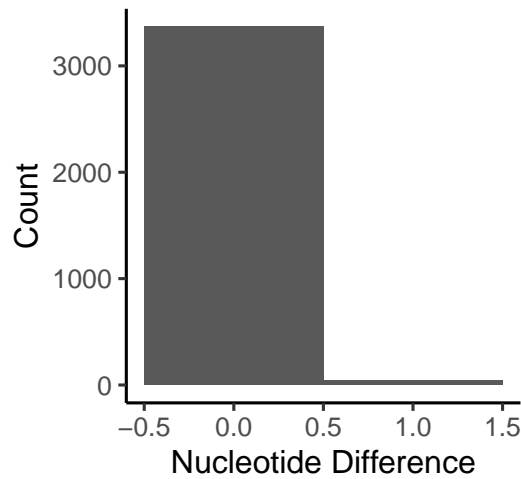
### TRBV4-1\*ap01

5107 sequences assigned  
5061 (99.1%) exact matches, in which:  
4969 unique CDR3  
13 unique J



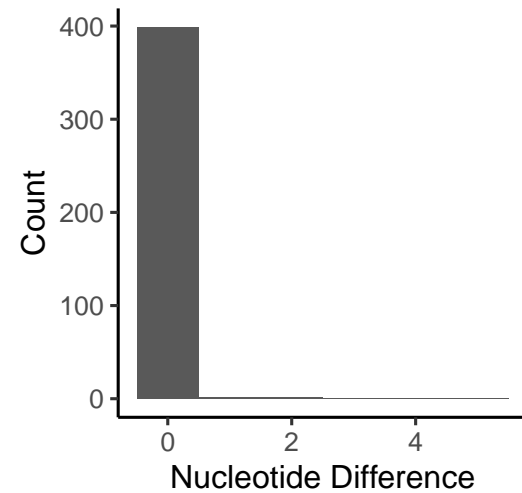
### TRBV4-3\*ap01

3407 sequences assigned  
3368 (98.9%) exact matches, in which:  
3317 unique CDR3  
13 unique J



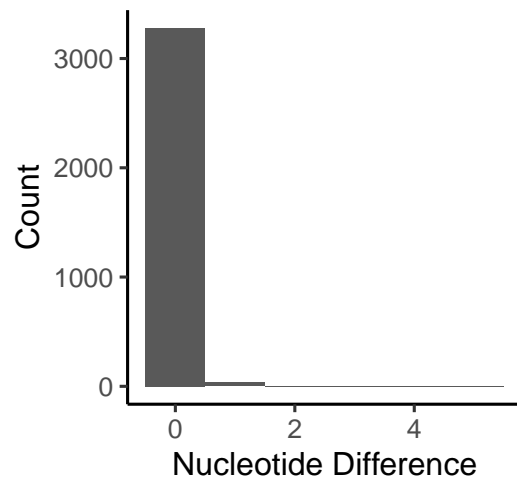
### TRBV5-3\*ap01

406 sequences assigned  
399 (98.3%) exact matches, in which:  
392 unique CDR3  
13 unique J



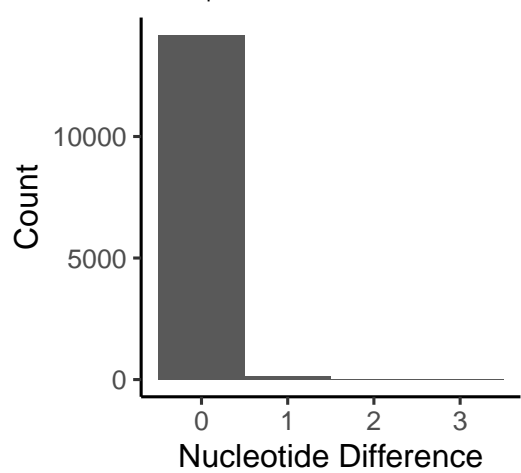
### TRBV24-1\*ap01

3325 sequences assigned  
3279 (98.6%) exact matches, in which:  
3224 unique CDR3  
13 unique J



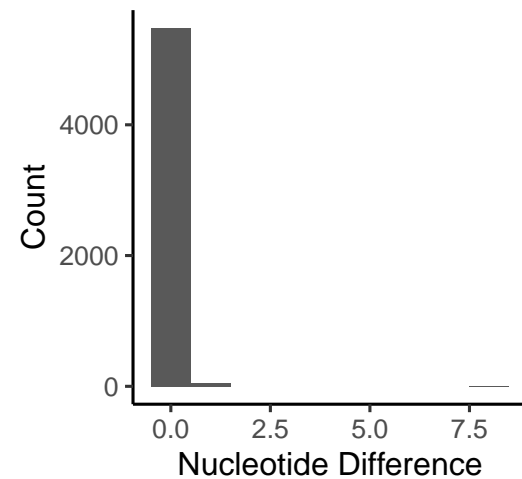
### TRBV5-1\*ap01

14328 sequences assigned  
14184 (99%) exact matches, in which:  
13897 unique CDR3  
13 unique J



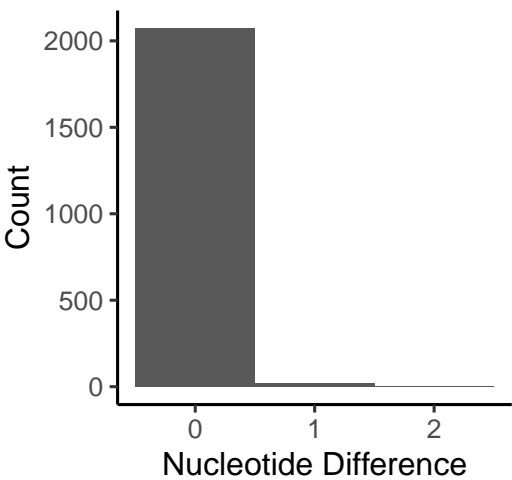
### TRBV5-4\*ap01

5533 sequences assigned  
5480 (99%) exact matches, in which:  
5370 unique CDR3  
13 unique J



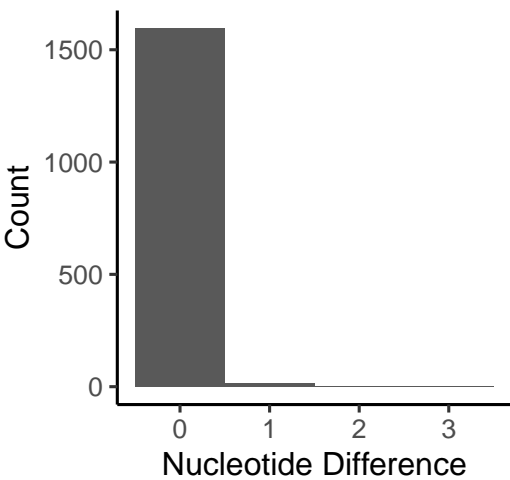
TRBV5-5\*ap01

2094 sequences assigned  
2072 (98.9%) exact matches, in which:  
2047 unique CDR3  
13 unique J



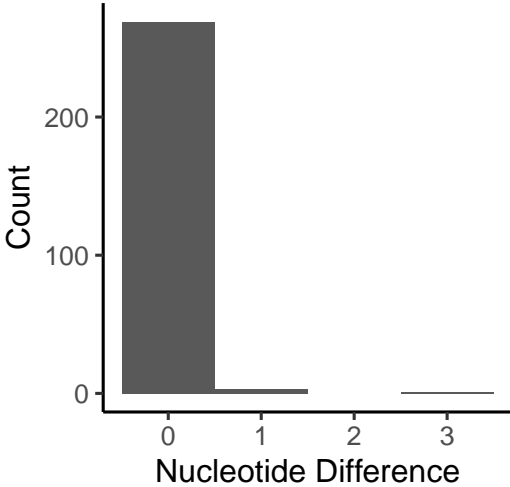
TRBV5-8\*ap01

1615 sequences assigned  
1595 (98.8%) exact matches, in which:  
1565 unique CDR3  
13 unique J



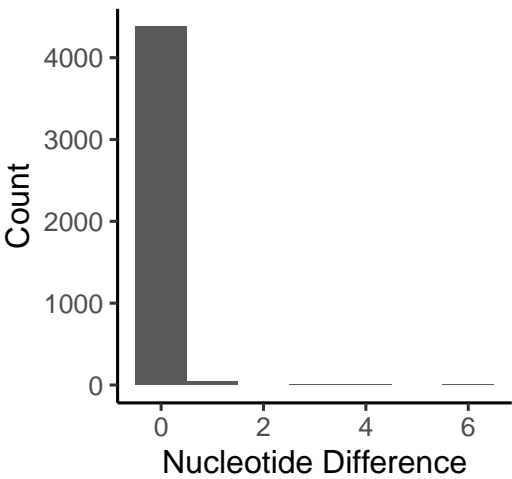
TRBV6-7\*ap01

273 sequences assigned  
269 (98.5%) exact matches, in which:  
265 unique CDR3  
13 unique J



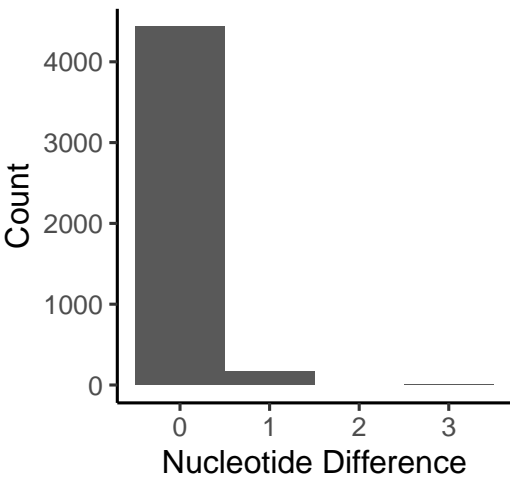
TRBV5-6\*ap01

4421 sequences assigned  
4378 (99%) exact matches, in which:  
4301 unique CDR3  
13 unique J



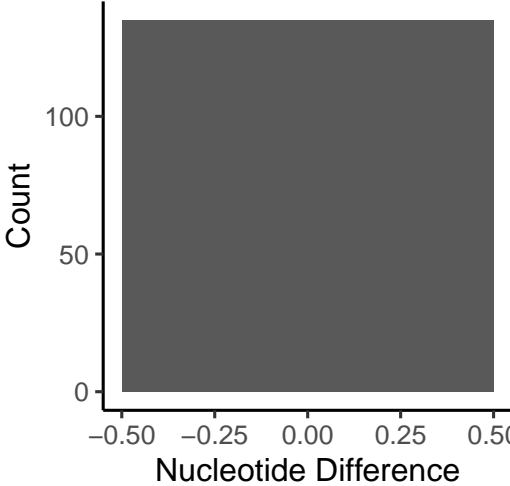
TRBV6-1\*ap01

4597 sequences assigned  
4434 (96.5%) exact matches, in which:  
4348 unique CDR3  
13 unique J



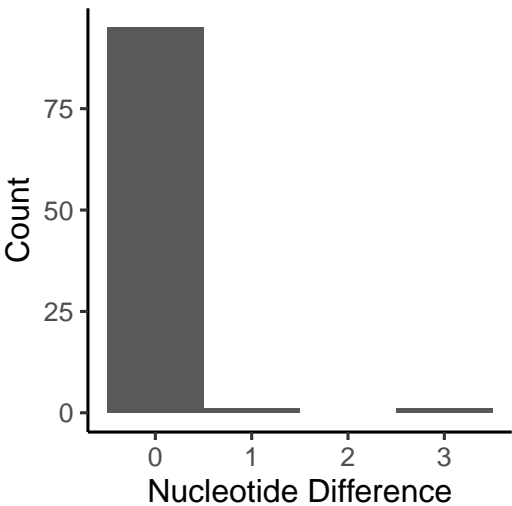
TRBV6-8\*ap01

135 sequences assigned  
135 (100%) exact matches, in which:  
130 unique CDR3  
11 unique J



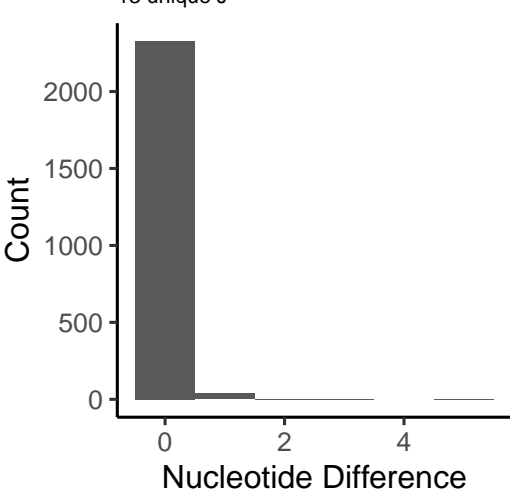
TRBV5-7\*ap01

97 sequences assigned  
95 (97.9%) exact matches, in which:  
95 unique CDR3  
12 unique J



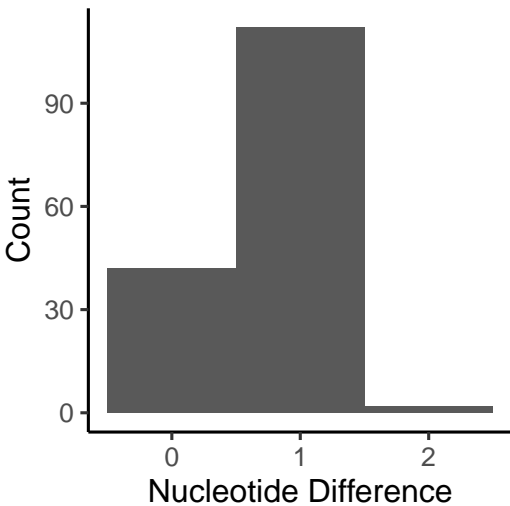
TRBV6-4\*ap01

2374 sequences assigned  
2328 (98.1%) exact matches, in which:  
2304 unique CDR3  
13 unique J



TRBV6-9\*ap01

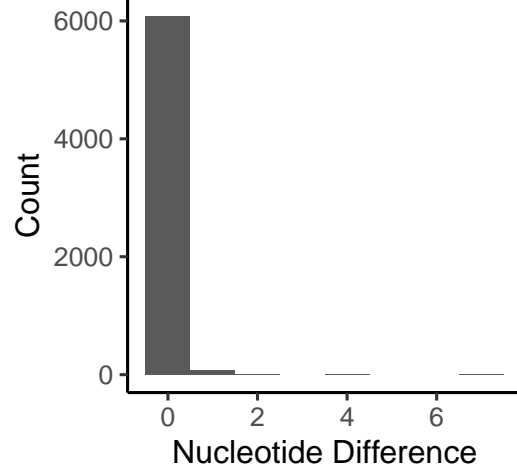
156 sequences assigned  
42 (26.9%) exact matches, in which:  
41 unique CDR3  
11 unique J





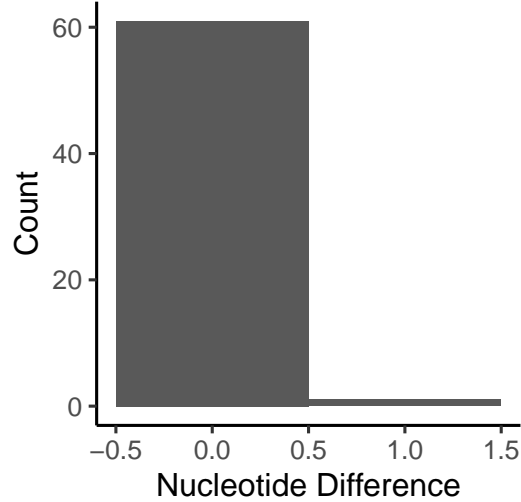
### TRBV6-23\*ap01

6151 sequences assigned  
6076 (98.8%) exact matches, in which:  
5963 unique CDR3  
13 unique J



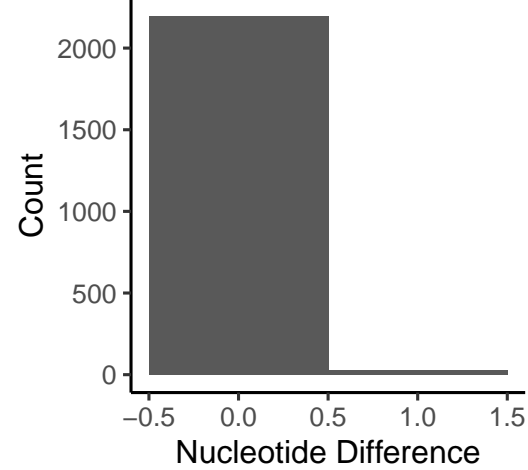
### TRBV7-1\*ap01\_G291C\_T

62 sequences assigned  
61 (98.4%) exact matches, in which:  
61 unique CDR3  
13 unique J



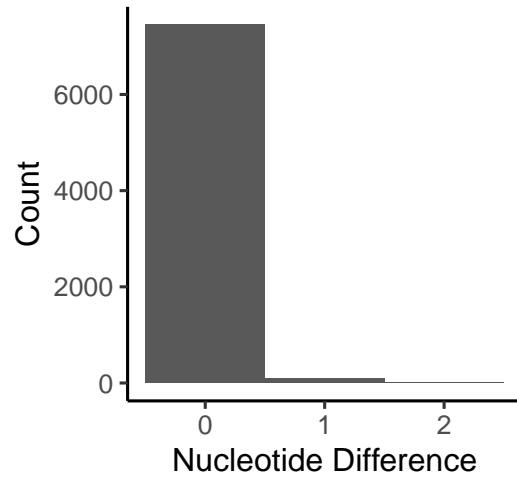
### TRBV7-3\*ap01

2219 sequences assigned  
2194 (98.9%) exact matches, in which:  
2171 unique CDR3  
13 unique J



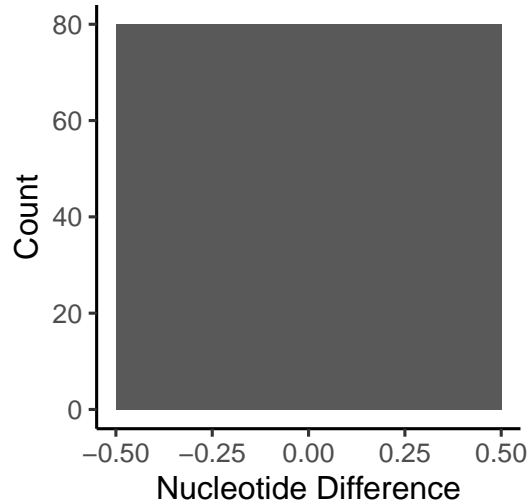
### TRBV6-56\*ap01

7552 sequences assigned  
7450 (98.6%) exact matches, in which:  
7315 unique CDR3  
13 unique J



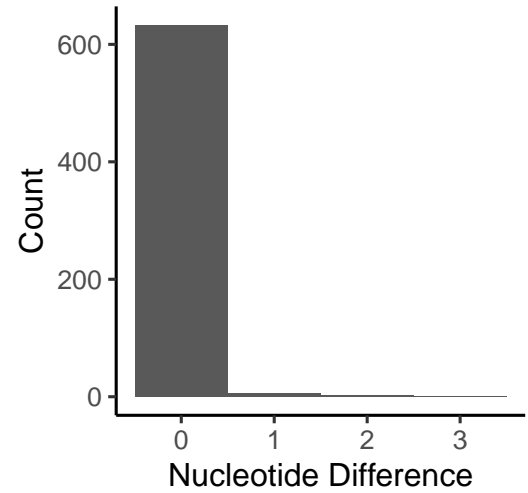
### TRBV7-1\*ap01\_G291C\_T

80 sequences assigned  
80 (100%) exact matches, in which:  
79 unique CDR3  
10 unique J



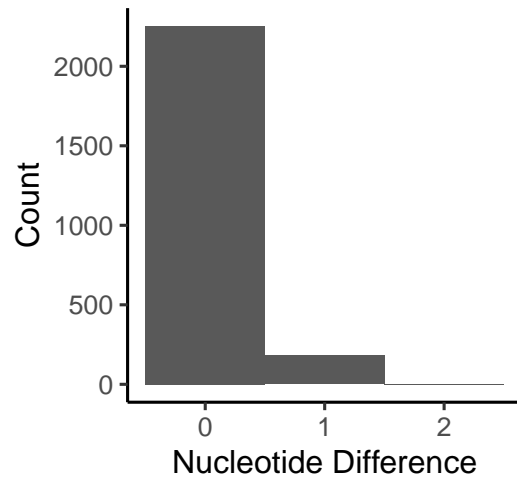
### TRBV7-3\*ap03

643 sequences assigned  
633 (98.4%) exact matches, in which:  
622 unique CDR3  
13 unique J



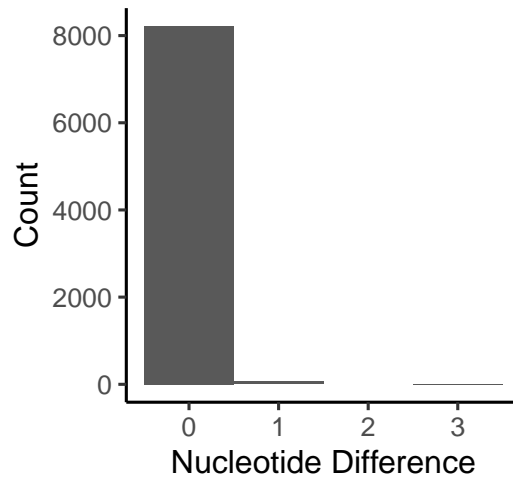
### TRBV6-56\*ap02

2435 sequences assigned  
2253 (92.5%) exact matches, in which:  
2208 unique CDR3  
13 unique J



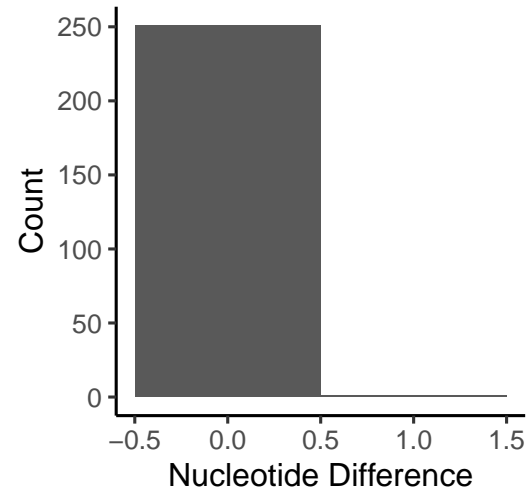
### TRBV7-2\*ap01

8281 sequences assigned  
8219 (99.3%) exact matches, in which:  
8087 unique CDR3  
13 unique J



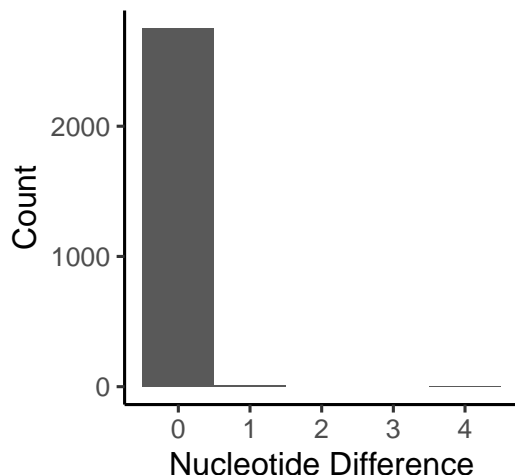
### TRBV7-4\*ap01

252 sequences assigned  
251 (99.6%) exact matches, in which:  
249 unique CDR3  
13 unique J



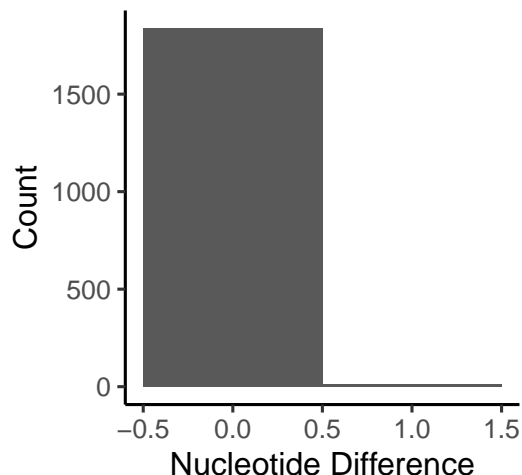
### TRBV7-6\*ap01

2763 sequences assigned  
2751 (99.6%) exact matches, in which:  
2696 unique CDR3  
13 unique J



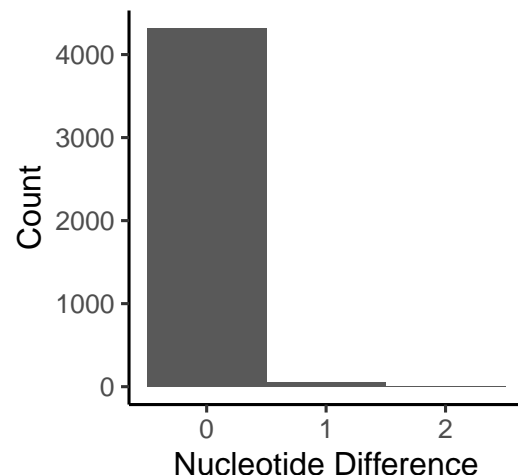
### TRBV7-8\*ap01

1851 sequences assigned  
1837 (99.2%) exact matches, in which:  
1808 unique CDR3  
13 unique J



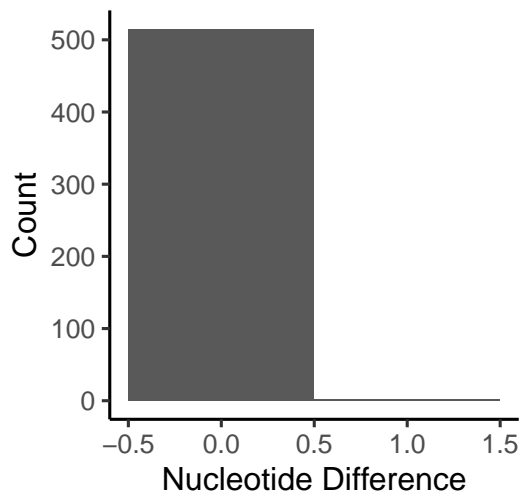
### TRBV29-1\*ap01

4370 sequences assigned  
4315 (98.7%) exact matches, in which:  
4243 unique CDR3  
13 unique J



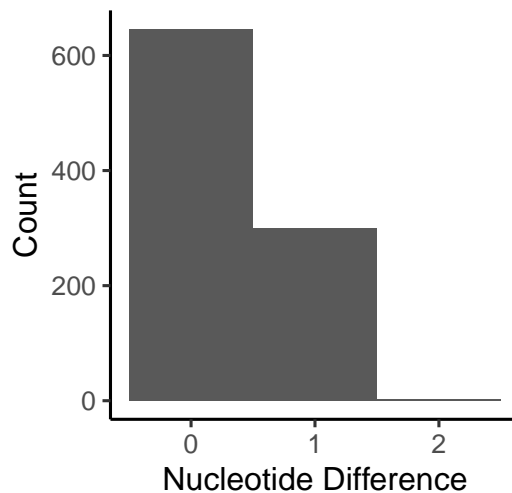
### TRBV7-7\*ap01

517 sequences assigned  
515 (99.6%) exact matches, in which:  
505 unique CDR3  
13 unique J



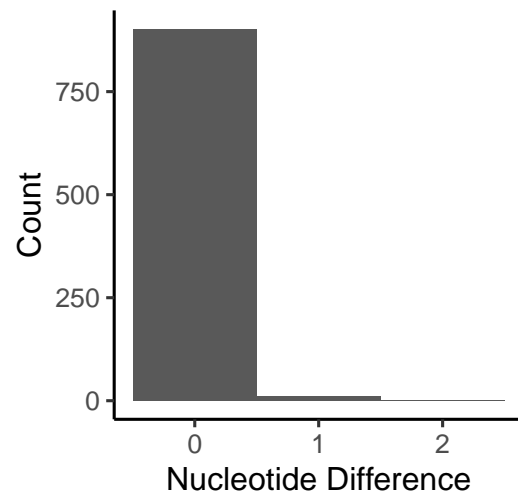
### TRBV7-8\*ap03

948 sequences assigned  
646 (68.1%) exact matches, in which:  
635 unique CDR3  
13 unique J



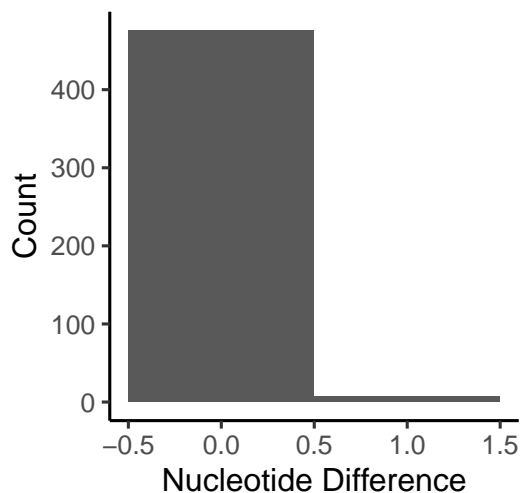
### TRBV29-1\*ap02

914 sequences assigned  
902 (98.7%) exact matches, in which:  
886 unique CDR3  
13 unique J



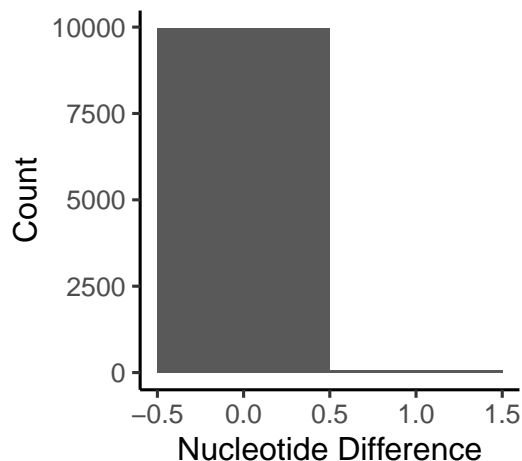
### TRBV7-7\*ap01\_C315T

483 sequences assigned  
476 (98.6%) exact matches, in which:  
467 unique CDR3  
13 unique J

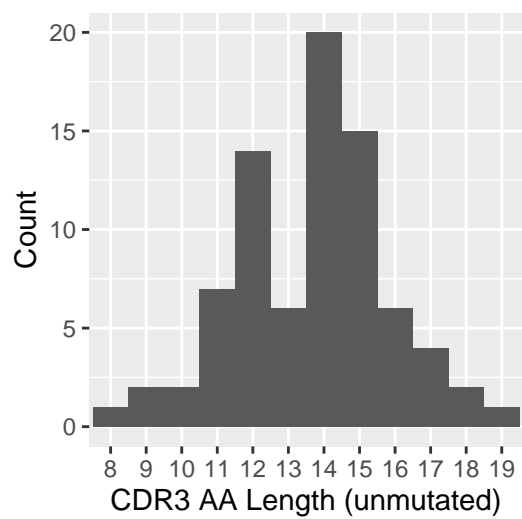


### TRBV7-9\*ap01

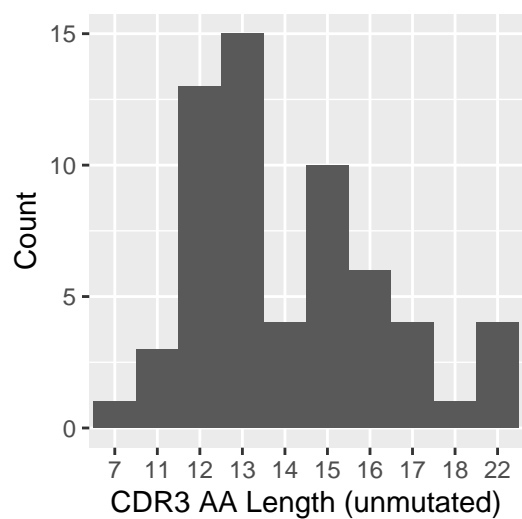
10055 sequences assigned  
9980 (99.3%) exact matches, in which:  
9832 unique CDR3  
13 unique J



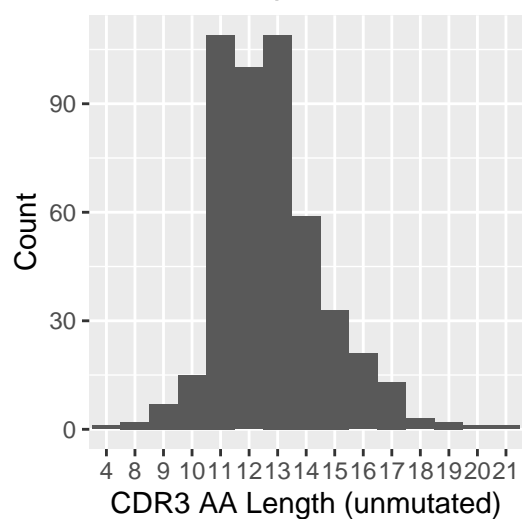
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]