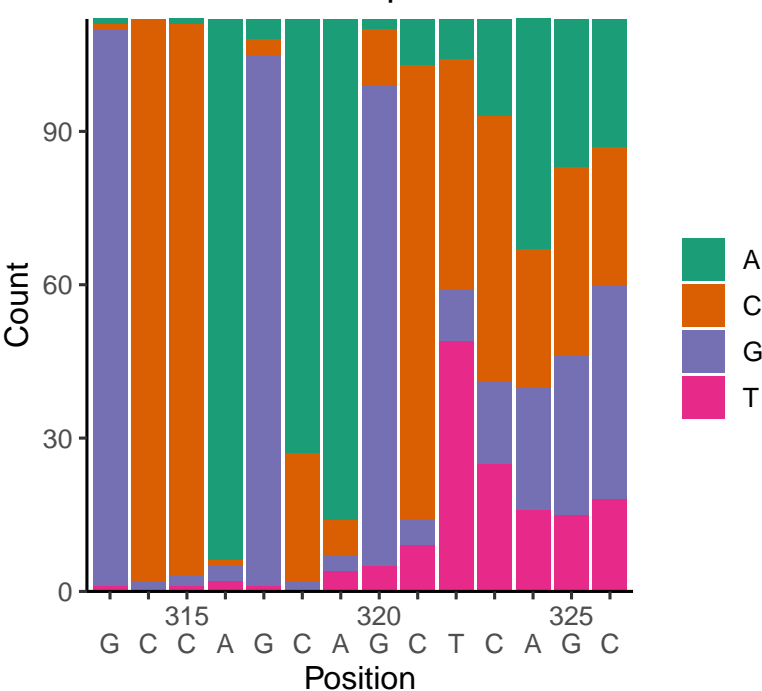
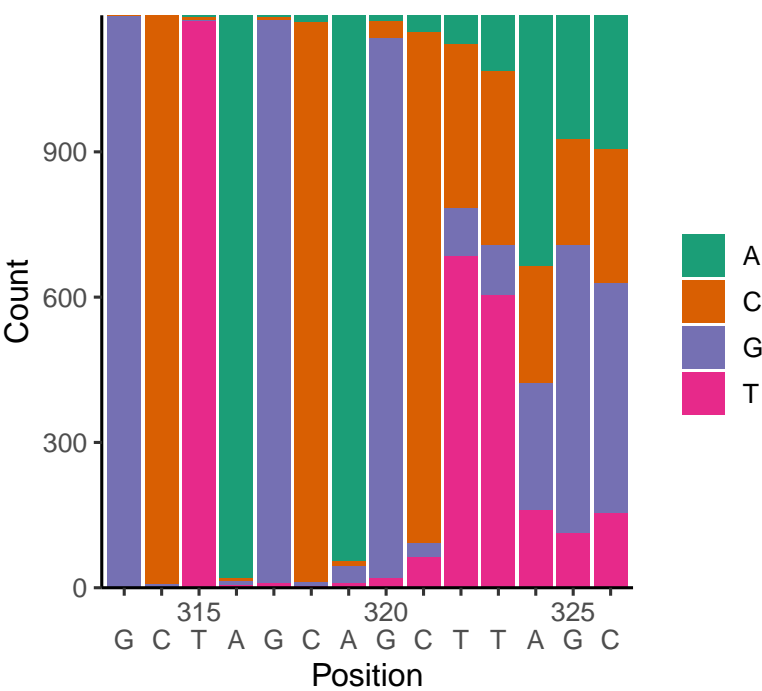


Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



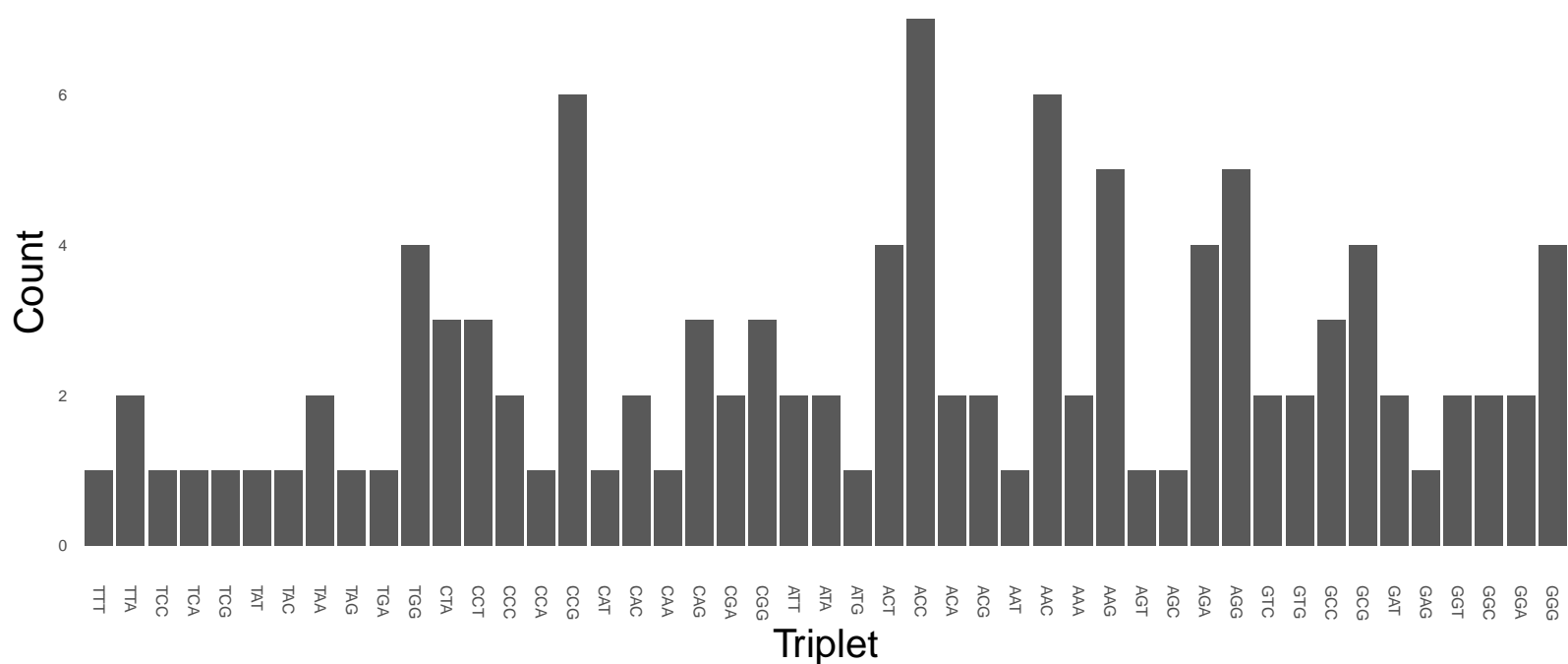
Gene TRBV7-1\*ap01\_T296C



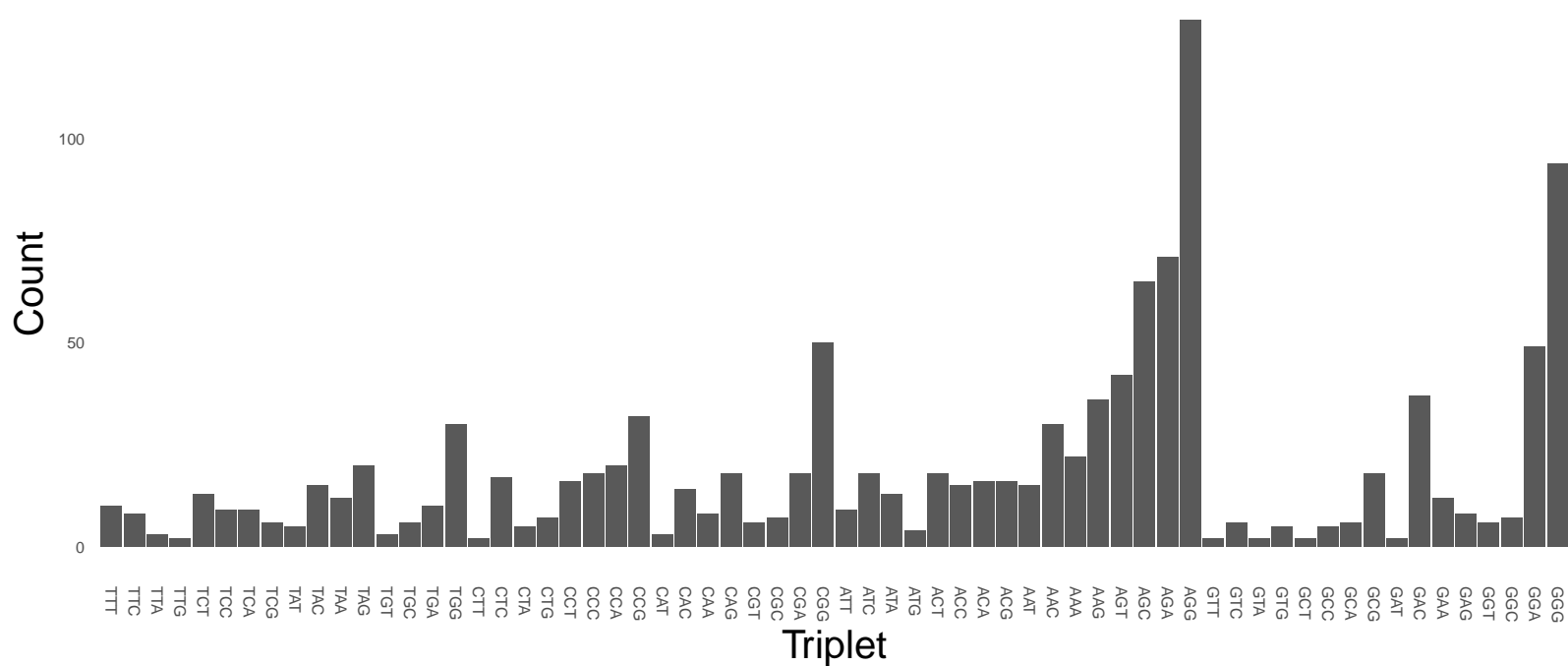
Gene TRBV7-7\*ap01\_C315T



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

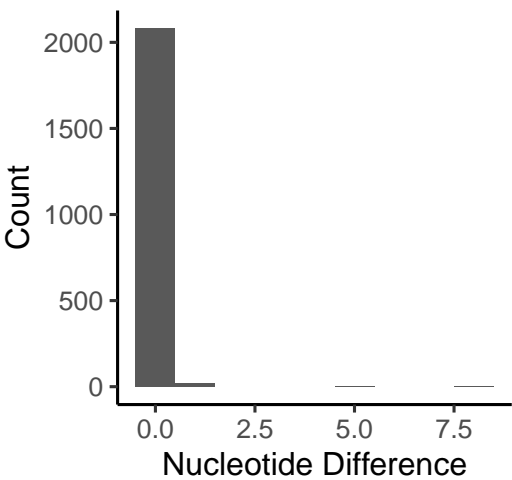


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



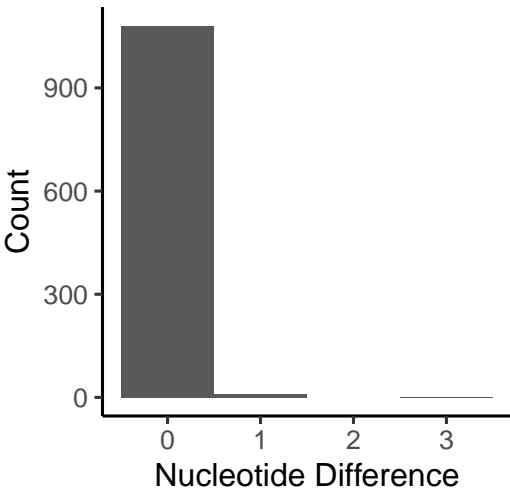
TRBV10-1\*ap01

2102 sequences assigned  
2081 (99%) exact matches, in which:  
2031 unique CDR3  
13 unique J



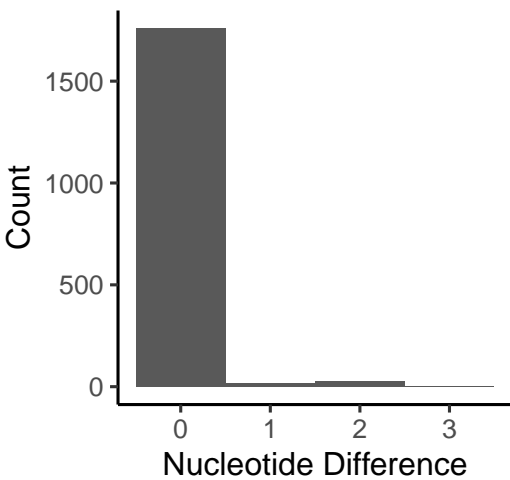
TRBV10-2\*ap01

1092 sequences assigned  
1081 (99%) exact matches, in which:  
1063 unique CDR3  
13 unique J



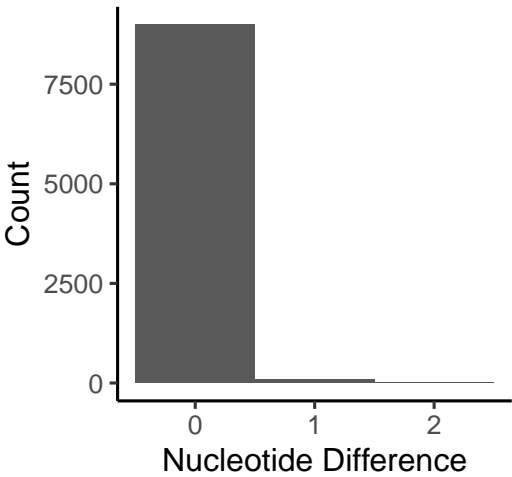
TRBV13\*ap01

1804 sequences assigned  
1759 (97.5%) exact matches, in which:  
1703 unique CDR3  
13 unique J



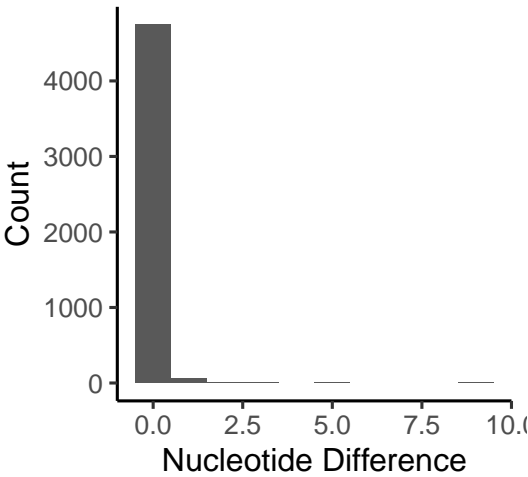
TRBV20-1\*ap01

9074 sequences assigned  
8993 (99.1%) exact matches, in which:  
8850 unique CDR3  
13 unique J



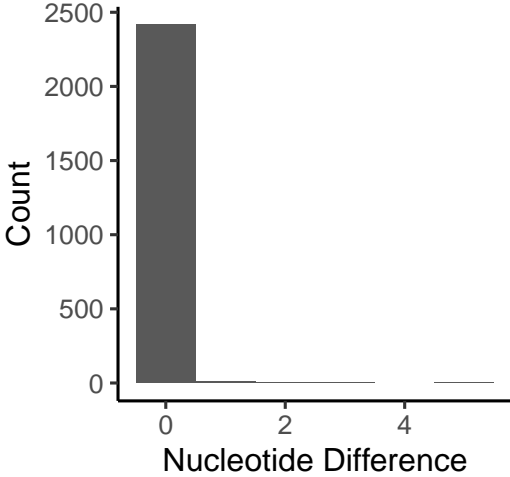
TRBV10-3\*ap01

4809 sequences assigned  
4744 (98.6%) exact matches, in which:  
4659 unique CDR3  
13 unique J



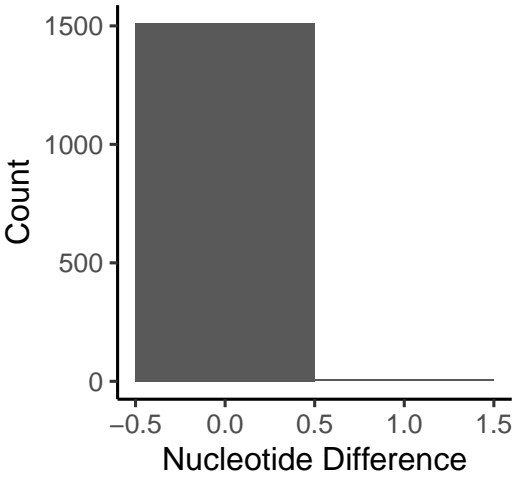
TRBV14\*ap01

2431 sequences assigned  
2416 (99.4%) exact matches, in which:  
2398 unique CDR3  
13 unique J



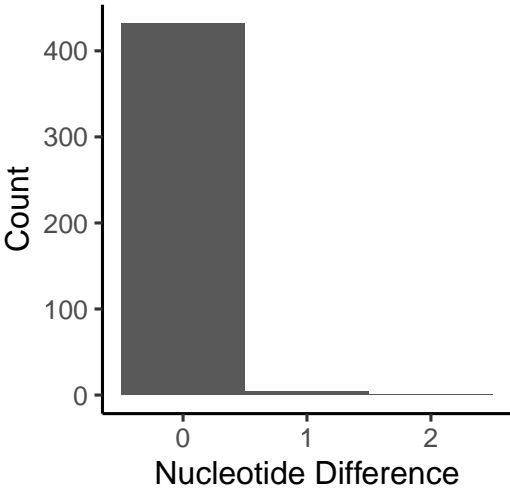
TRBV20-1\*ap02

1520 sequences assigned  
1512 (99.5%) exact matches, in which:  
1497 unique CDR3  
13 unique J



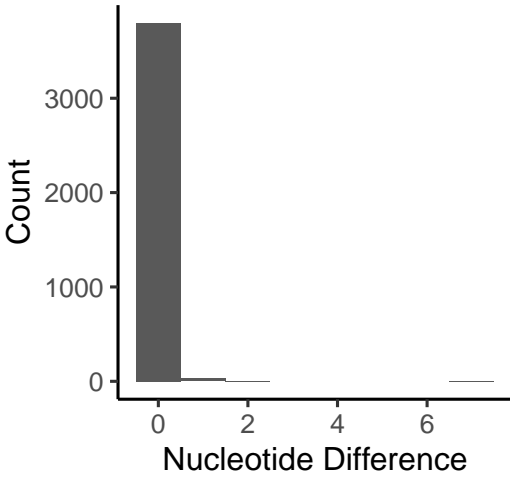
TRBV1\*ap01

437 sequences assigned  
432 (98.9%) exact matches, in which:  
416 unique CDR3  
13 unique J



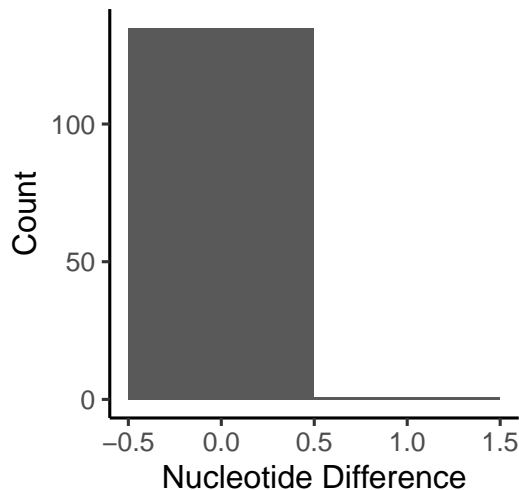
TRBV15\*ap02

3827 sequences assigned  
3797 (99.2%) exact matches, in which:  
3730 unique CDR3  
13 unique J



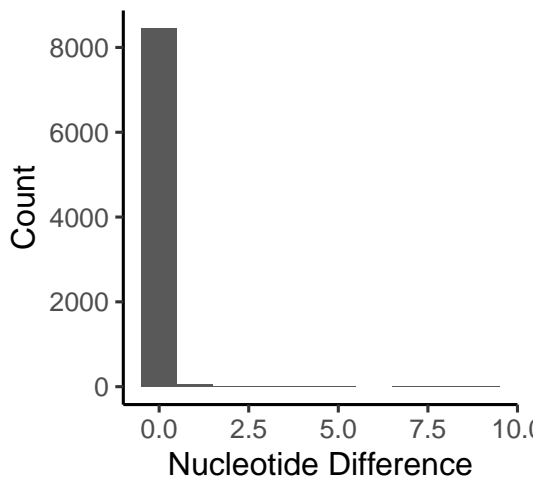
### TRBV16\*ap01

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



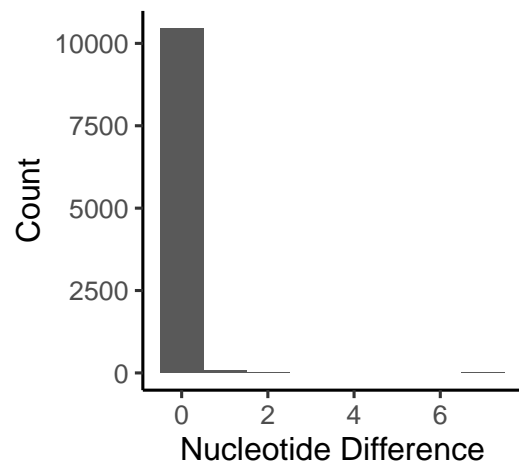
### TRBV19\*ap01

8518 sequences assigned  
8449 (99.2%) exact matches, in which:  
8394 unique CDR3  
13 unique J



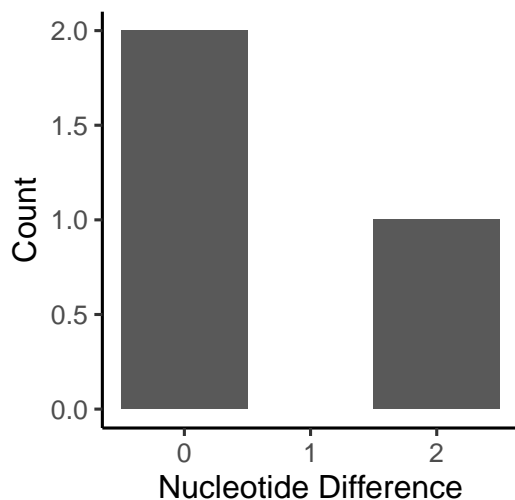
### TRBV28\*ap01

10551 sequences assigned  
10462 (99.2%) exact matches, in which:  
10328 unique CDR3  
13 unique J



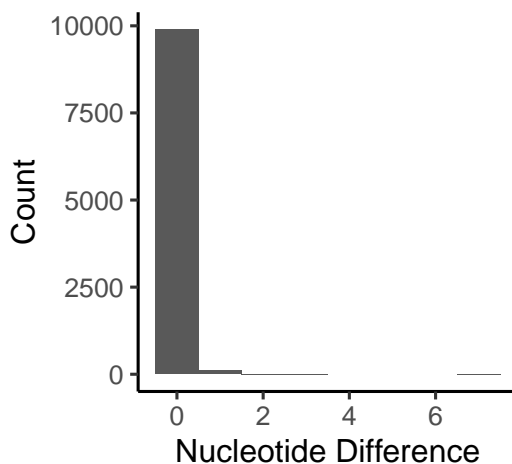
### TRBV17\*ap01

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



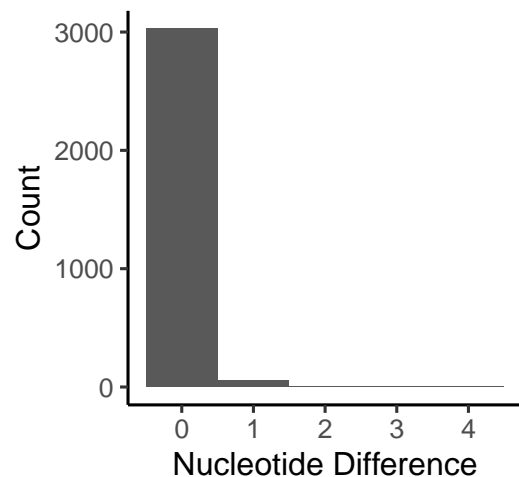
### TRBV2\*ap01

10010 sequences assigned  
9895 (98.9%) exact matches, in which:  
9670 unique CDR3  
13 unique J



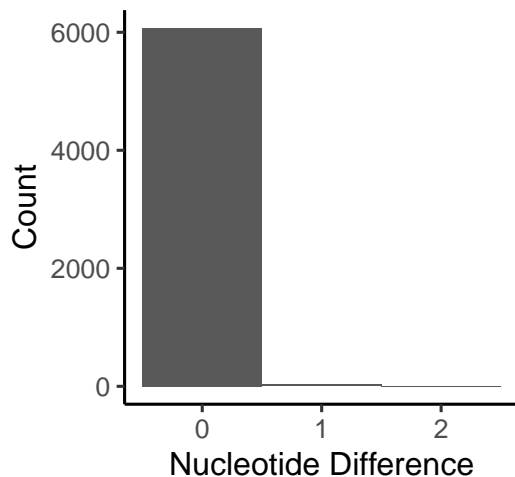
### TRBV30\*ap02

3087 sequences assigned  
3028 (98.1%) exact matches, in which:  
2934 unique CDR3  
13 unique J



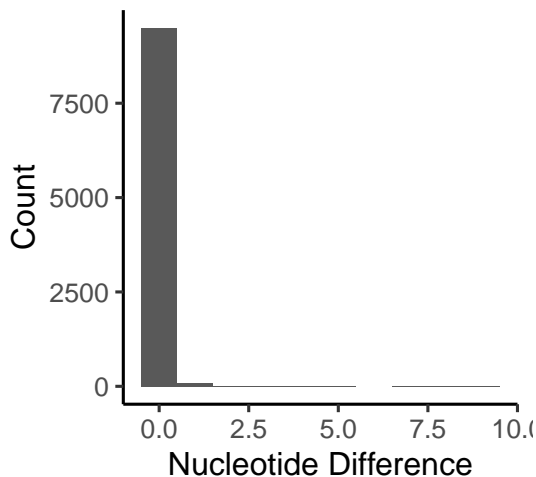
### TRBV18\*ap01

6107 sequences assigned  
6072 (99.4%) exact matches, in which:  
6020 unique CDR3  
13 unique J



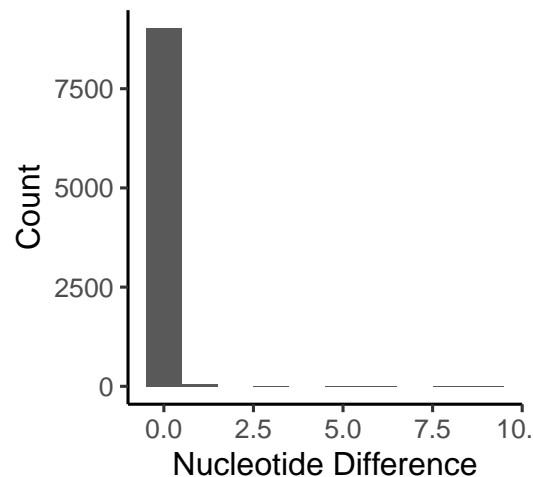
### TRBV27\*ap01

9591 sequences assigned  
9492 (99%) exact matches, in which:  
9303 unique CDR3  
13 unique J



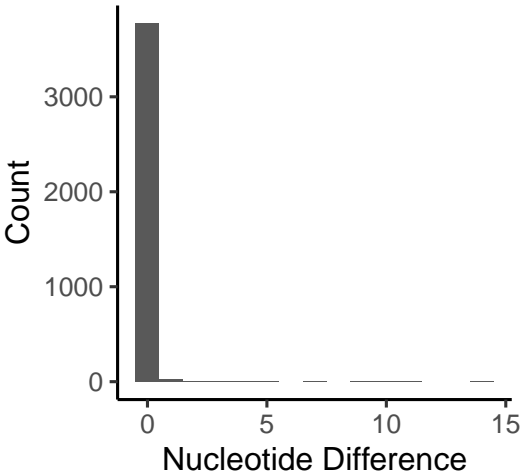
### TRBV9\*ap01

9094 sequences assigned  
9029 (99.3%) exact matches, in which:  
8907 unique CDR3  
13 unique J



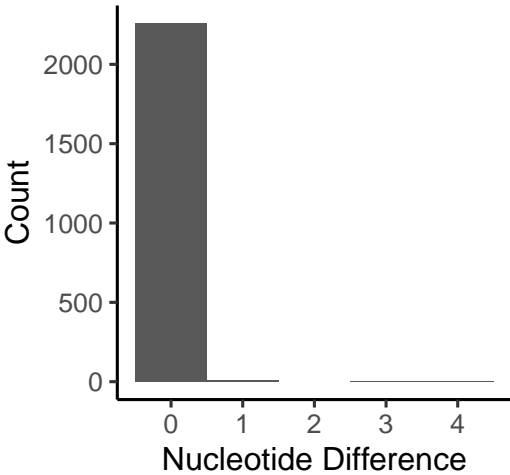
TRBV21-1\*ap01

3822 sequences assigned  
3773 (98.7%) exact matches, in which:  
3749 unique CDR3  
14 unique J



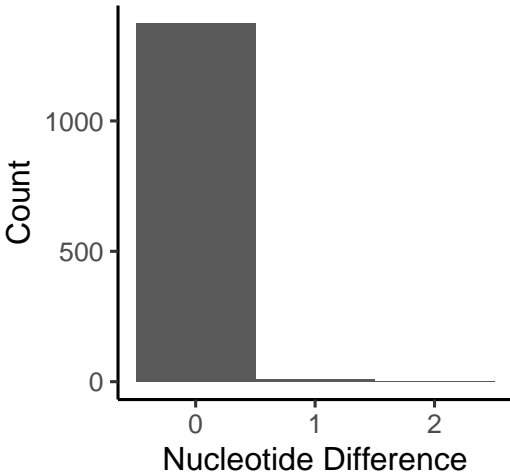
TRBV11-3\*ap01

2269 sequences assigned  
2258 (99.5%) exact matches, in which:  
2244 unique CDR3  
13 unique J



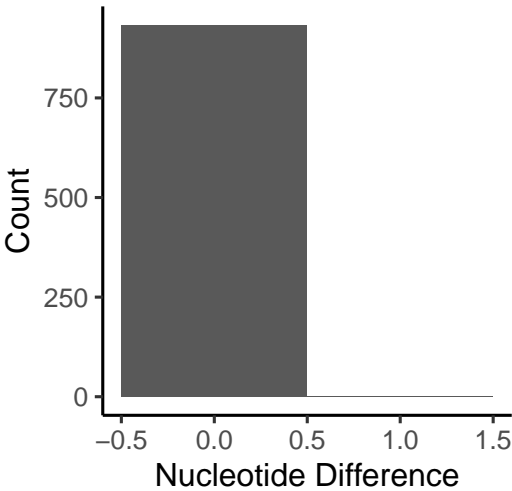
TRBV12-5\*ap01

1387 sequences assigned  
1374 (99.1%) exact matches, in which:  
1349 unique CDR3  
14 unique J



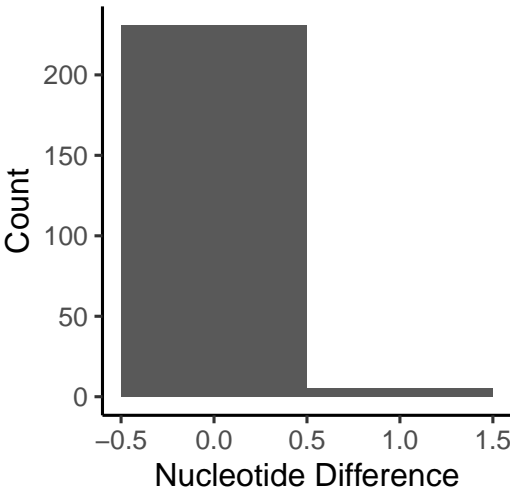
TRBV11-1\*ap01

935 sequences assigned  
933 (99.8%) exact matches, in which:  
928 unique CDR3  
13 unique J



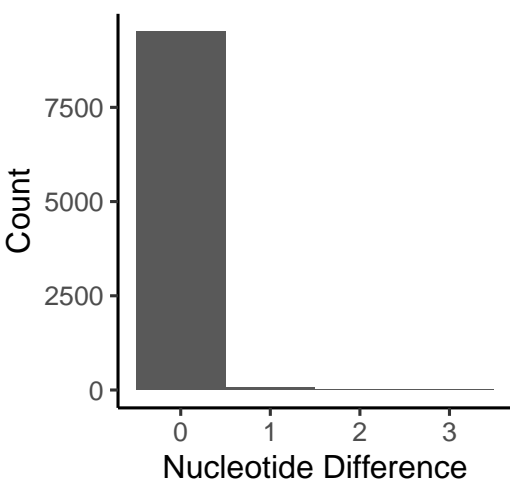
TRBV12-1\*ap01

236 sequences assigned  
231 (97.9%) exact matches, in which:  
225 unique CDR3  
13 unique J



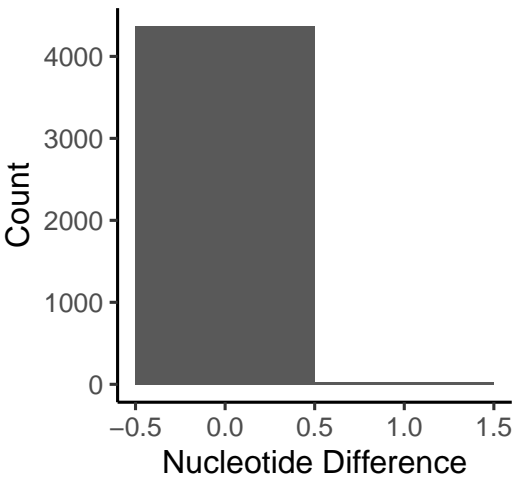
TRBV12-34\*ap01

9589 sequences assigned  
9507 (99.1%) exact matches, in which:  
9367 unique CDR3  
13 unique J



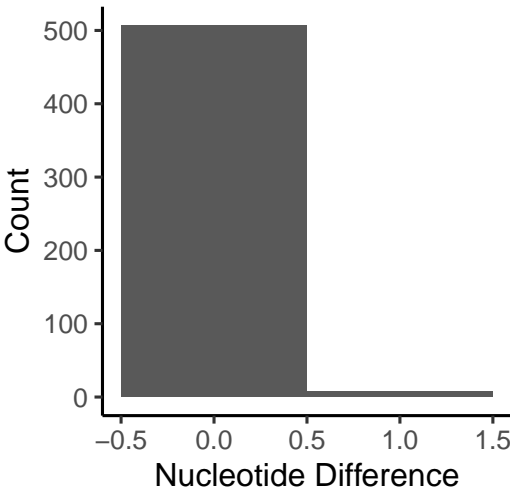
TRBV11-2\*ap01

4395 sequences assigned  
4370 (99.4%) exact matches, in which:  
4319 unique CDR3  
13 unique J



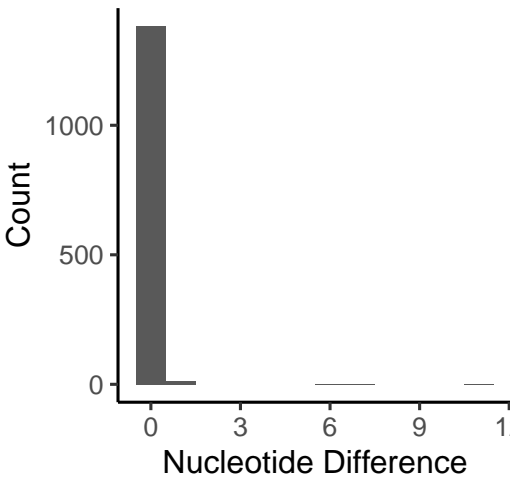
TRBV12-2\*ap01

515 sequences assigned  
507 (98.4%) exact matches, in which:  
503 unique CDR3  
13 unique J



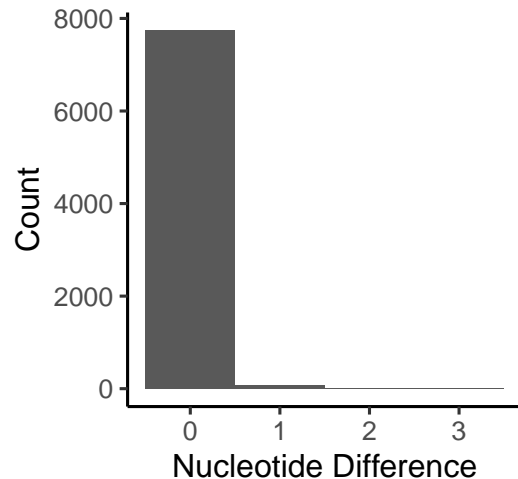
TRBV23-1\*ap01

1399 sequences assigned  
1383 (98.9%) exact matches, in which:  
1371 unique CDR3  
13 unique J



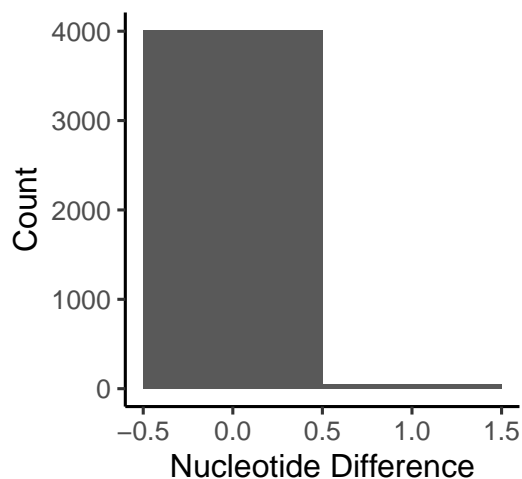
### TRBV3-12\*ap01

7826 sequences assigned  
7741 (98.9%) exact matches, in which:  
7586 unique CDR3  
13 unique J



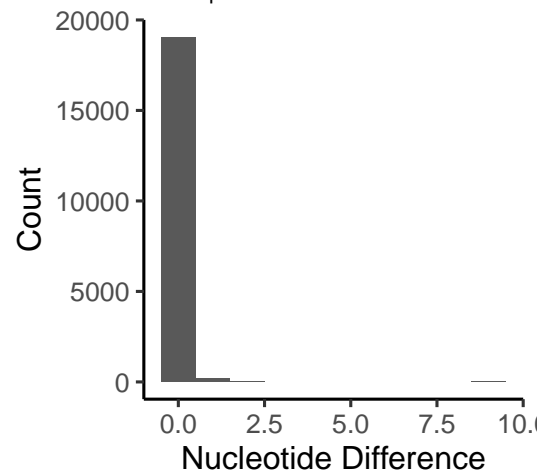
### TRBV4-2\*ap01

4057 sequences assigned  
4009 (98.8%) exact matches, in which:  
3922 unique CDR3  
13 unique J



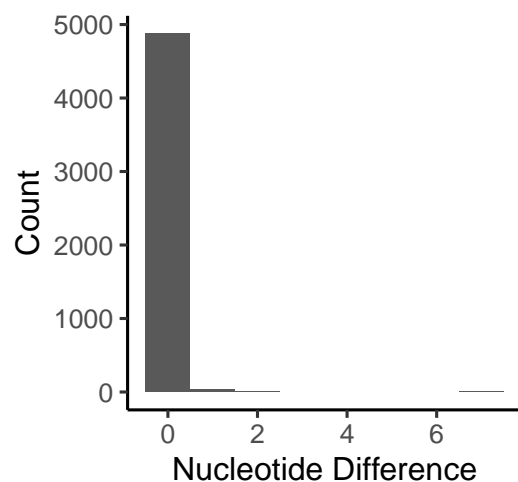
### TRBV5-1\*ap01

19253 sequences assigned  
19050 (98.9%) exact matches, in which:  
18601 unique CDR3  
13 unique J



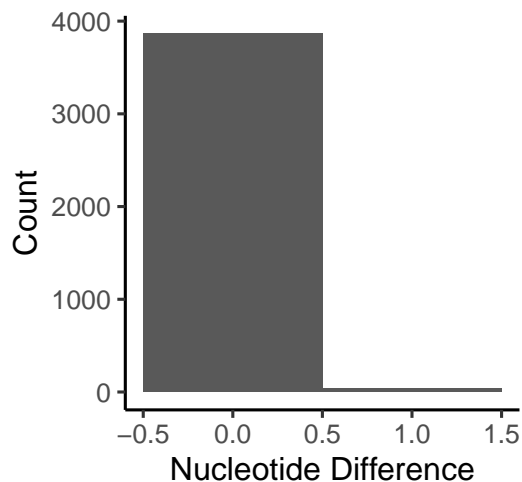
### TRBV4-1\*ap01

4914 sequences assigned  
4875 (99.2%) exact matches, in which:  
4756 unique CDR3  
13 unique J



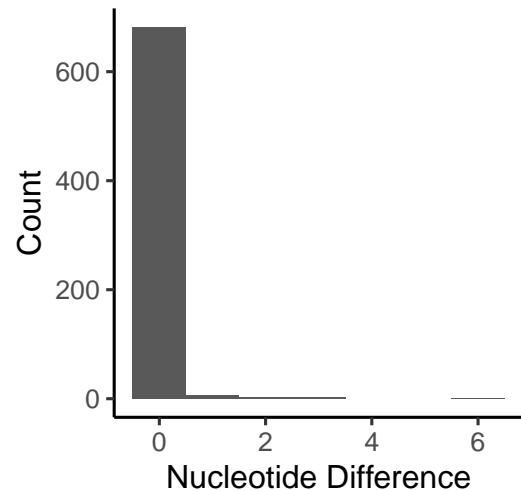
### TRBV4-3\*ap01

3907 sequences assigned  
3864 (98.9%) exact matches, in which:  
3769 unique CDR3  
13 unique J



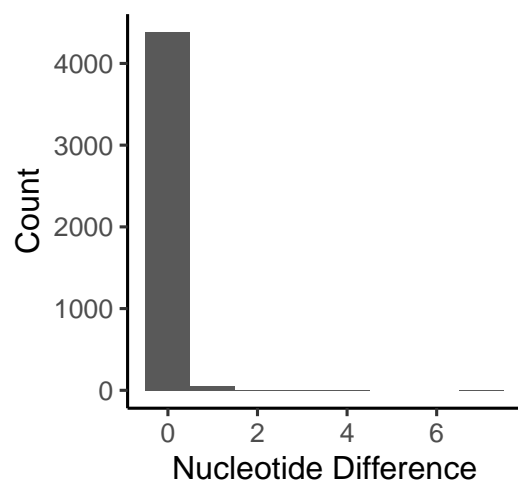
### TRBV5-3\*ap01

694 sequences assigned  
682 (98.3%) exact matches, in which:  
678 unique CDR3  
13 unique J



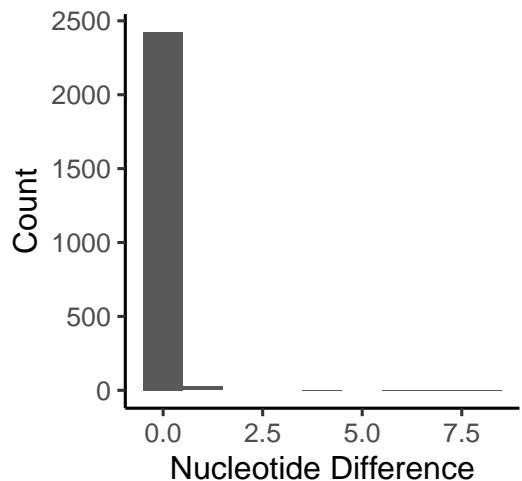
### TRBV24-1\*ap01

4444 sequences assigned  
4384 (98.6%) exact matches, in which:  
4305 unique CDR3  
13 unique J



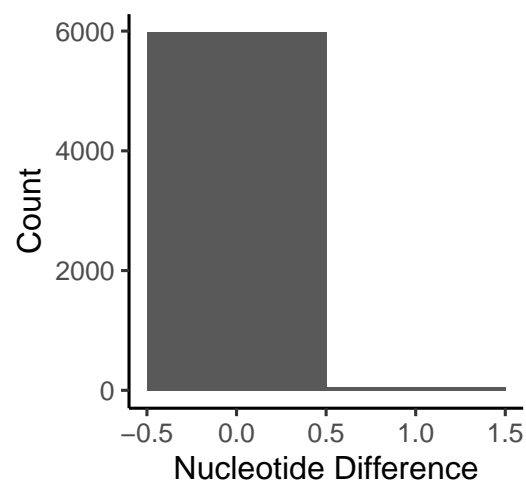
### TRBV25-1\*ap01

2457 sequences assigned  
2424 (98.7%) exact matches, in which:  
2363 unique CDR3  
13 unique J



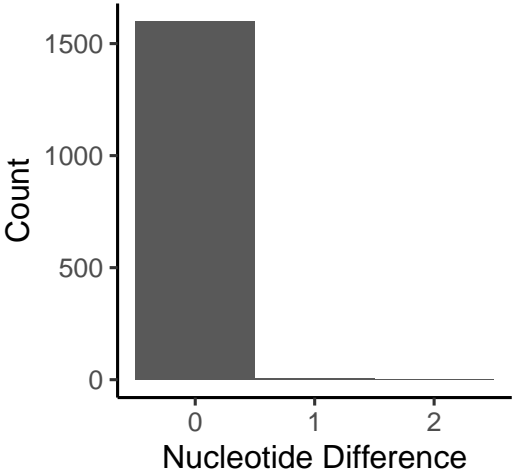
### TRBV5-4\*ap01

6041 sequences assigned  
5984 (99.1%) exact matches, in which:  
5885 unique CDR3  
13 unique J



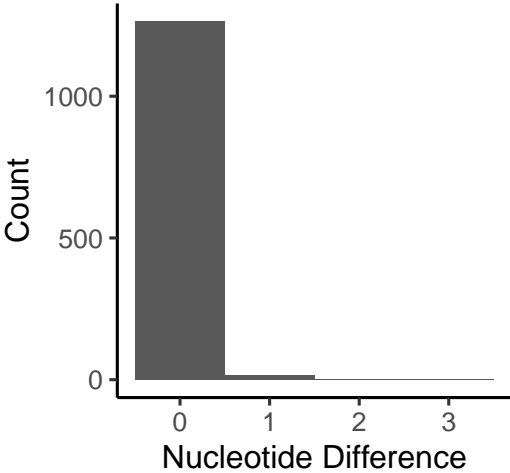
TRBV5-5\*ap01

1606 sequences assigned  
1599 (99.6%) exact matches, in which:  
1590 unique CDR3  
13 unique J



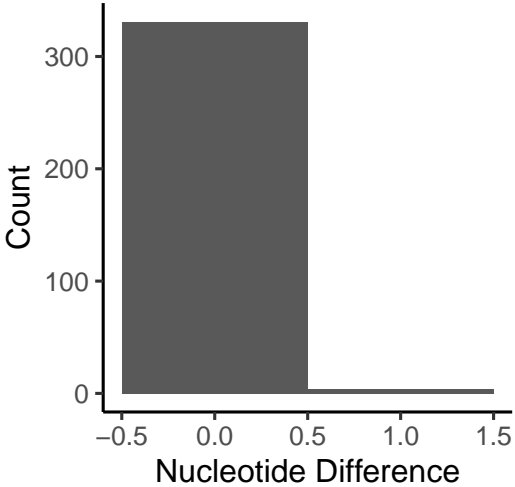
TRBV5-8\*ap01

1284 sequences assigned  
1264 (98.4%) exact matches, in which:  
1252 unique CDR3  
13 unique J



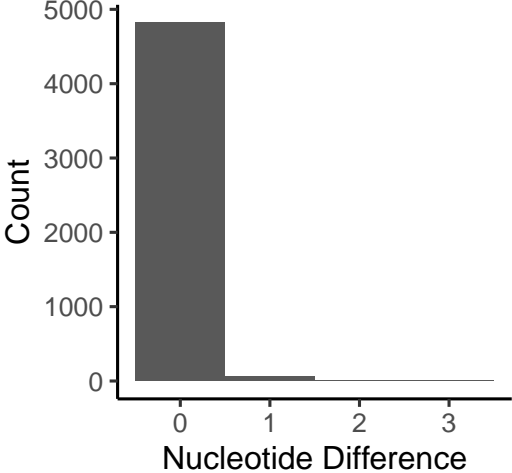
TRBV6-7\*ap01

335 sequences assigned  
331 (98.8%) exact matches, in which:  
321 unique CDR3  
13 unique J



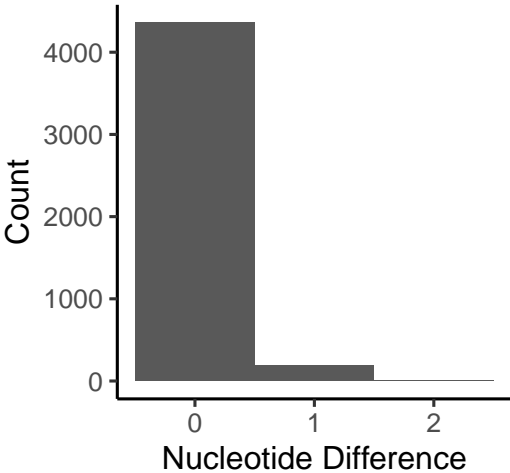
TRBV5-6\*ap01

4882 sequences assigned  
4820 (98.7%) exact matches, in which:  
4670 unique CDR3  
13 unique J



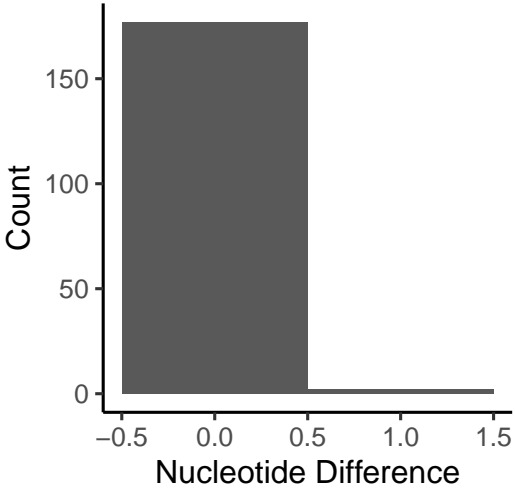
TRBV6-1\*ap01

4556 sequences assigned  
4359 (95.7%) exact matches, in which:  
4259 unique CDR3  
13 unique J



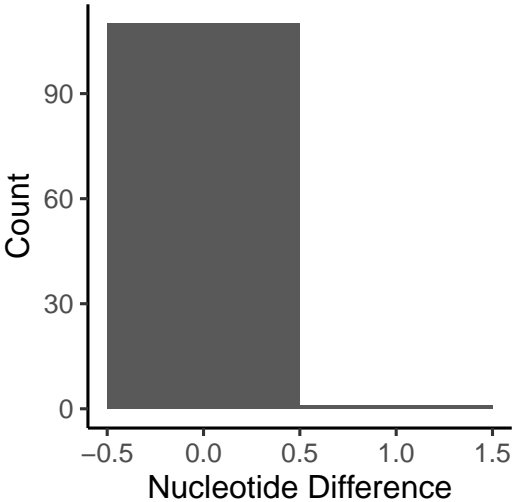
TRBV6-8\*ap01

179 sequences assigned  
177 (98.9%) exact matches, in which:  
169 unique CDR3  
13 unique J



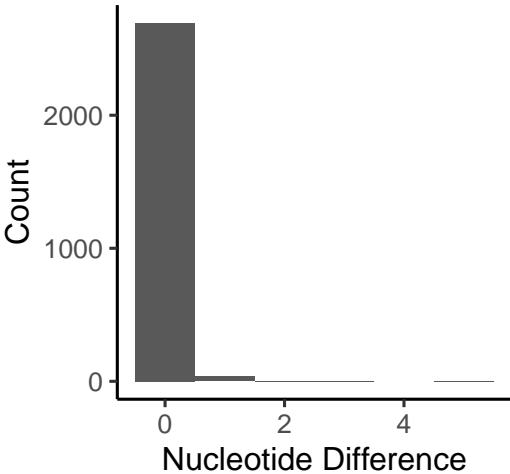
TRBV5-7\*ap01

111 sequences assigned  
110 (99.1%) exact matches, in which:  
107 unique CDR3  
11 unique J



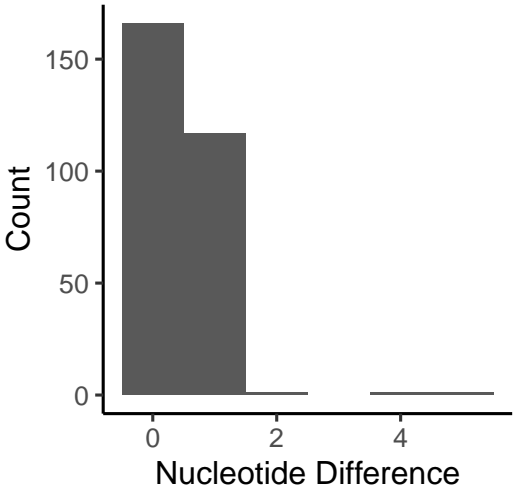
TRBV6-4\*ap01

2735 sequences assigned  
2693 (98.5%) exact matches, in which:  
2656 unique CDR3  
13 unique J



TRBV6-9\*ap01

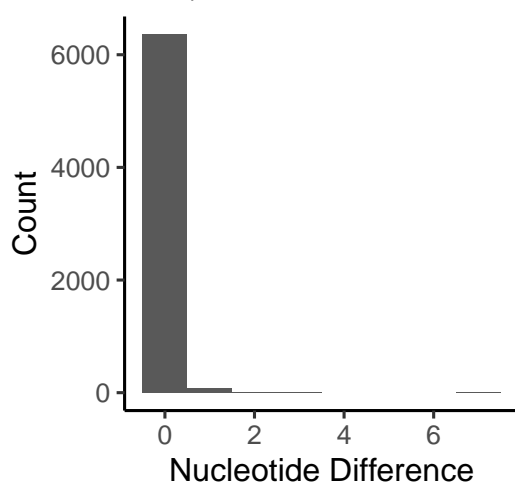
286 sequences assigned  
166 (58%) exact matches, in which:  
160 unique CDR3  
13 unique J





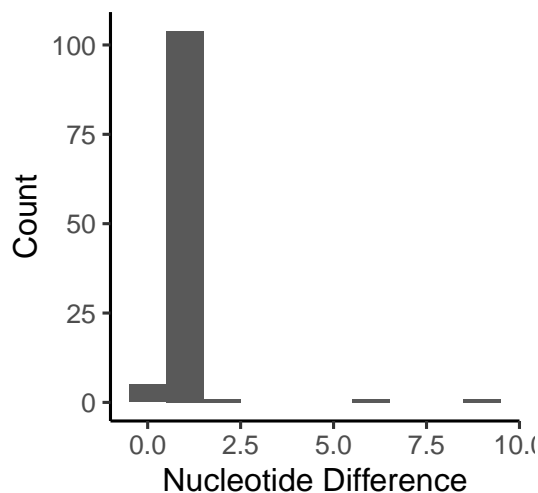
### TRBV6-23\*ap01

6443 sequences assigned  
6361 (98.7%) exact matches, in which:  
6208 unique CDR3  
13 unique J



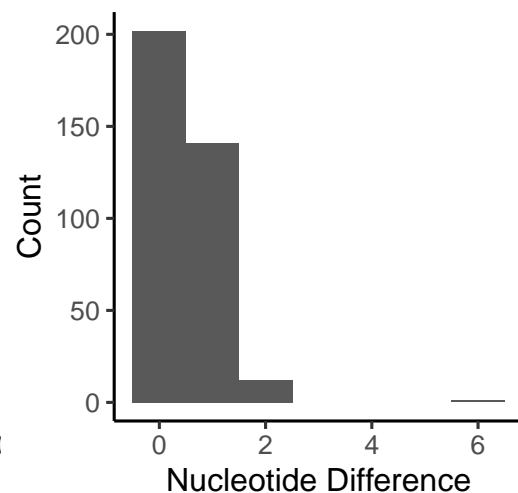
### TRBV7-1\*ap01\_T296C

112 sequences assigned  
5 (4.5%) exact matches, in which:  
5 unique CDR3  
2 unique J



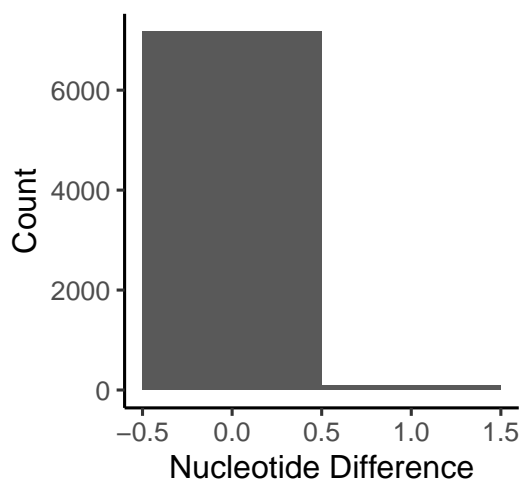
### TRBV7-4\*ap01

356 sequences assigned  
202 (56.7%) exact matches, in which:  
201 unique CDR3  
13 unique J



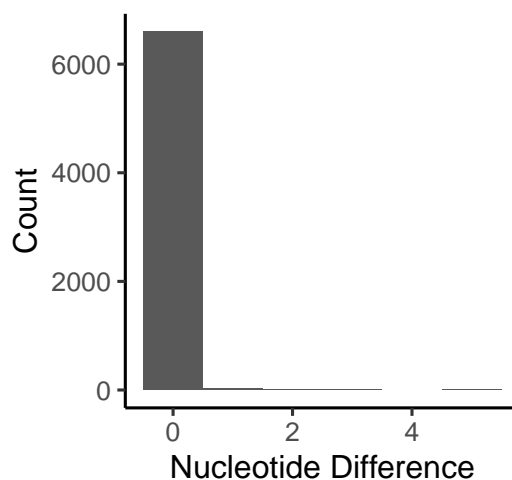
### TRBV6-56\*ap01

7257 sequences assigned  
7169 (98.8%) exact matches, in which:  
6960 unique CDR3  
13 unique J



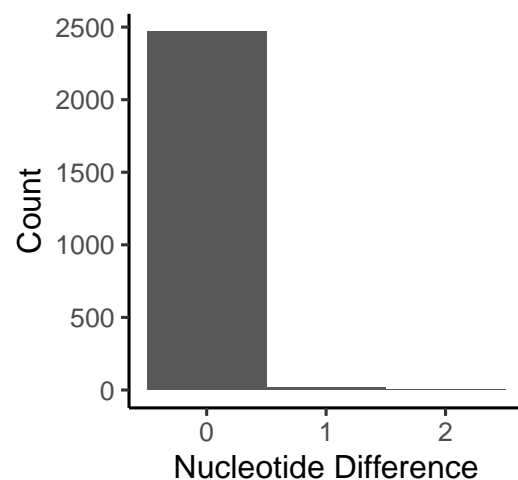
### TRBV7-2\*ap01

6635 sequences assigned  
6597 (99.4%) exact matches, in which:  
6526 unique CDR3  
13 unique J



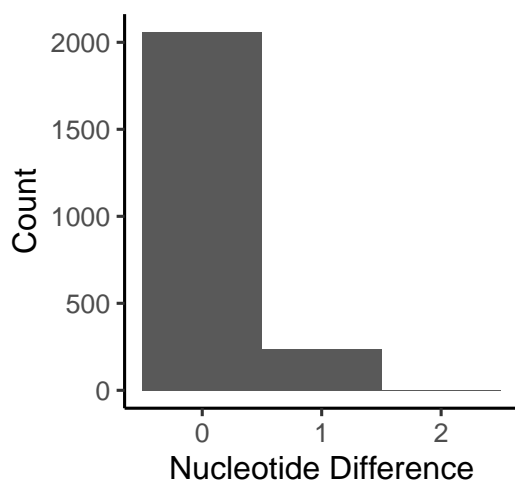
### TRBV7-6\*ap01

2489 sequences assigned  
2468 (99.2%) exact matches, in which:  
2423 unique CDR3  
13 unique J



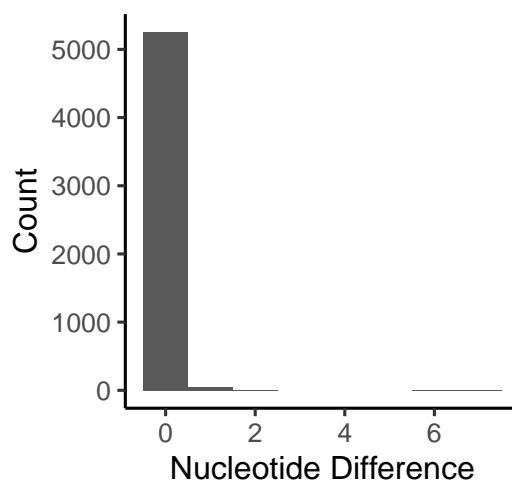
### TRBV6-56\*ap02

2297 sequences assigned  
2059 (89.6%) exact matches, in which:  
2004 unique CDR3  
13 unique J



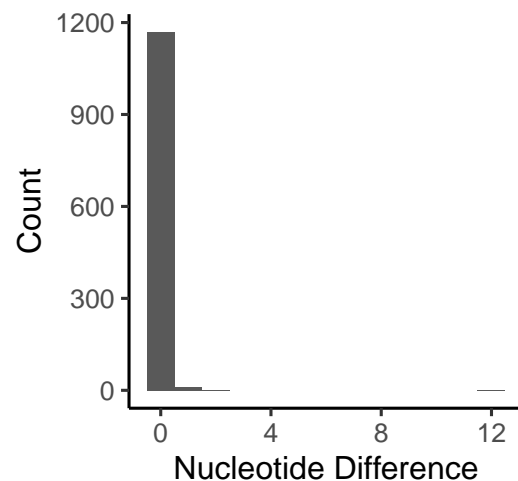
### TRBV7-3\*ap01

5306 sequences assigned  
5254 (99%) exact matches, in which:  
5215 unique CDR3  
13 unique J



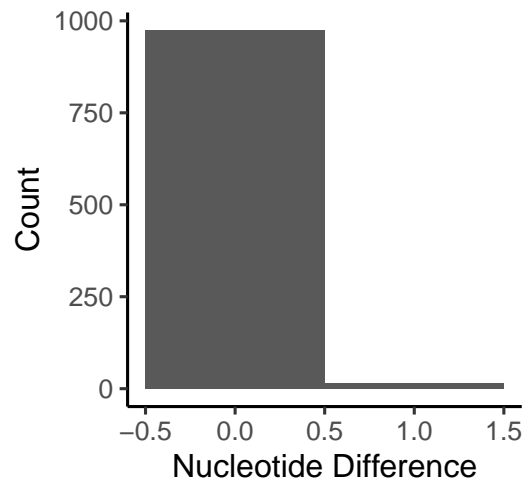
### TRBV7-7\*ap01\_C315T

1182 sequences assigned  
1169 (98.9%) exact matches, in which:  
1147 unique CDR3  
13 unique J



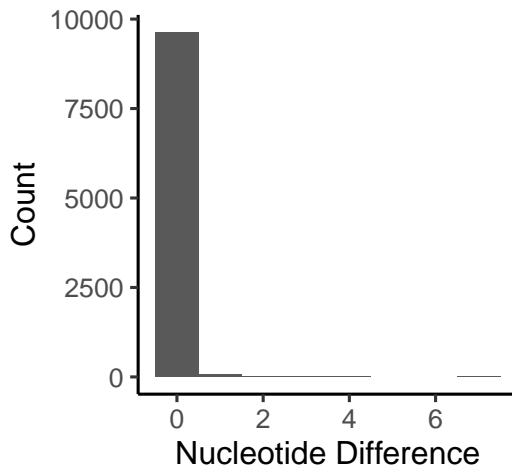
### TRBV7-8\*ap01

989 sequences assigned  
974 (98.5%) exact matches, in which:  
959 unique CDR3  
13 unique J



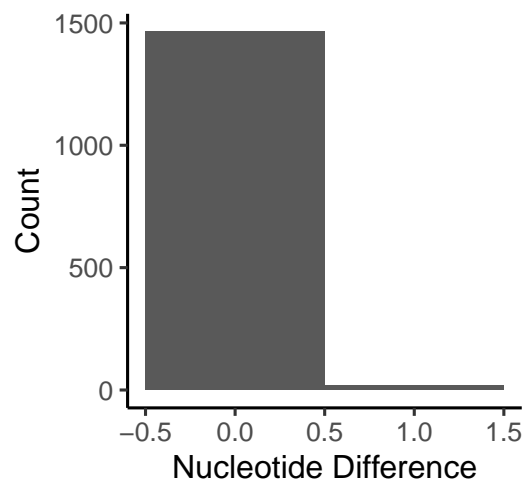
### TRBV7-9\*ap01

9716 sequences assigned  
9635 (99.2%) exact matches, in which:  
9510 unique CDR3  
13 unique J



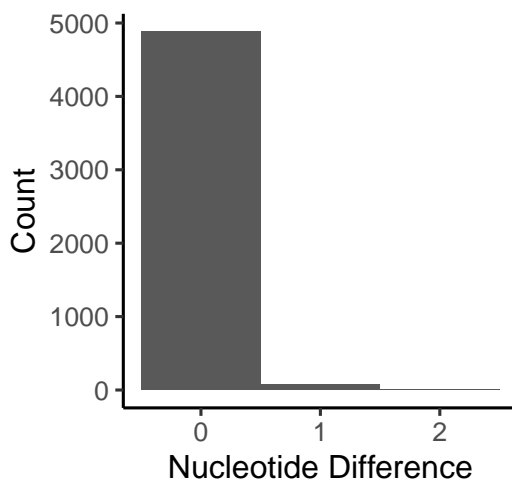
### TRBV7-8\*ap02

1484 sequences assigned  
1464 (98.7%) exact matches, in which:  
1441 unique CDR3  
13 unique J



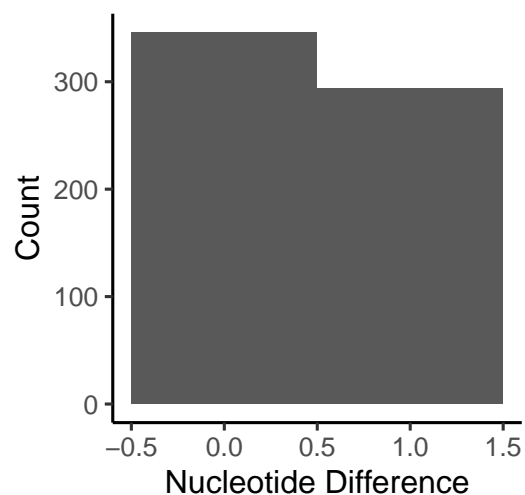
### TRBV29-1\*ap01

4960 sequences assigned  
4881 (98.4%) exact matches, in which:  
4733 unique CDR3  
13 unique J



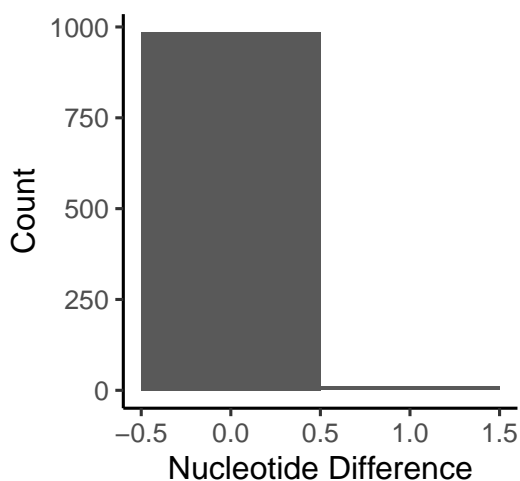
### TRBV7-8\*ap03

640 sequences assigned  
346 (54.1%) exact matches, in which:  
344 unique CDR3  
13 unique J

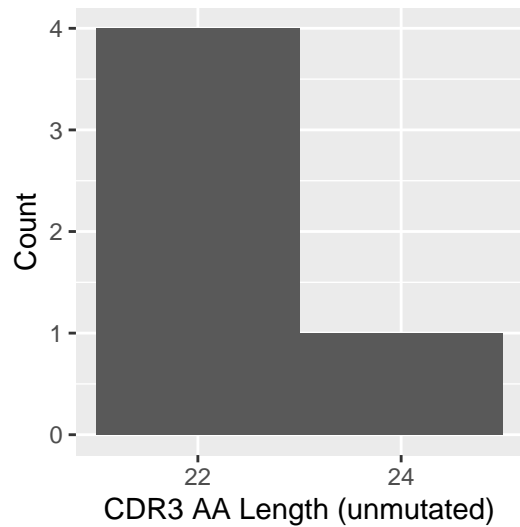


### TRBV29-1\*ap02

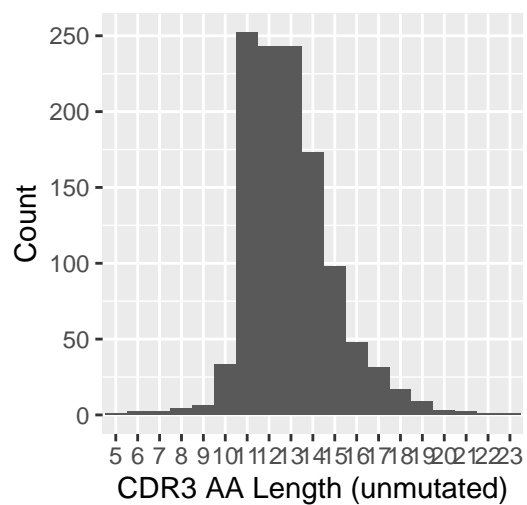
997 sequences assigned  
986 (98.9%) exact matches, in which:  
963 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]