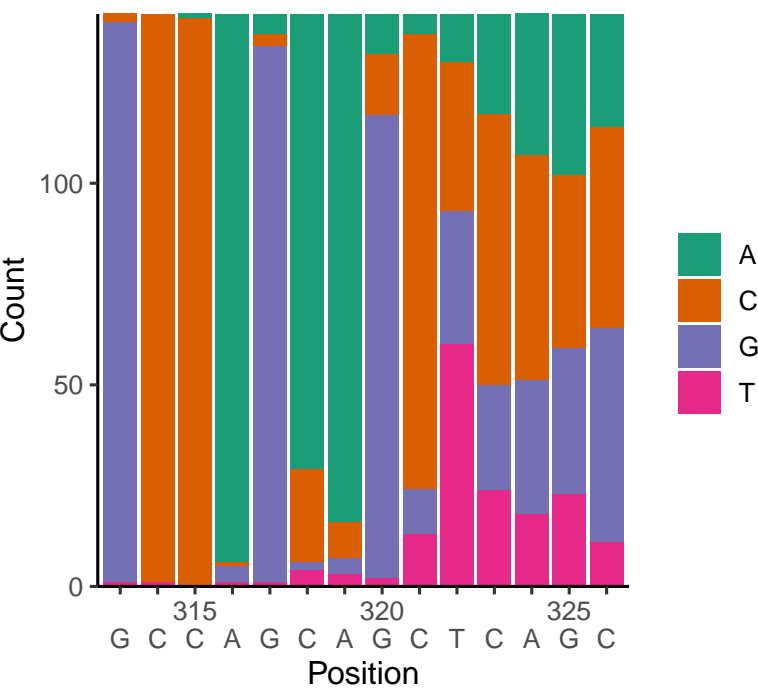
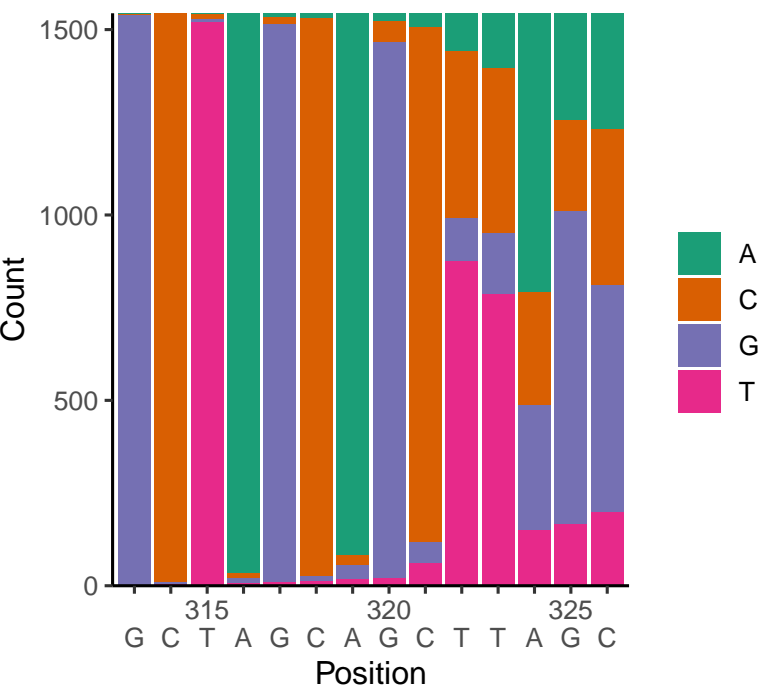


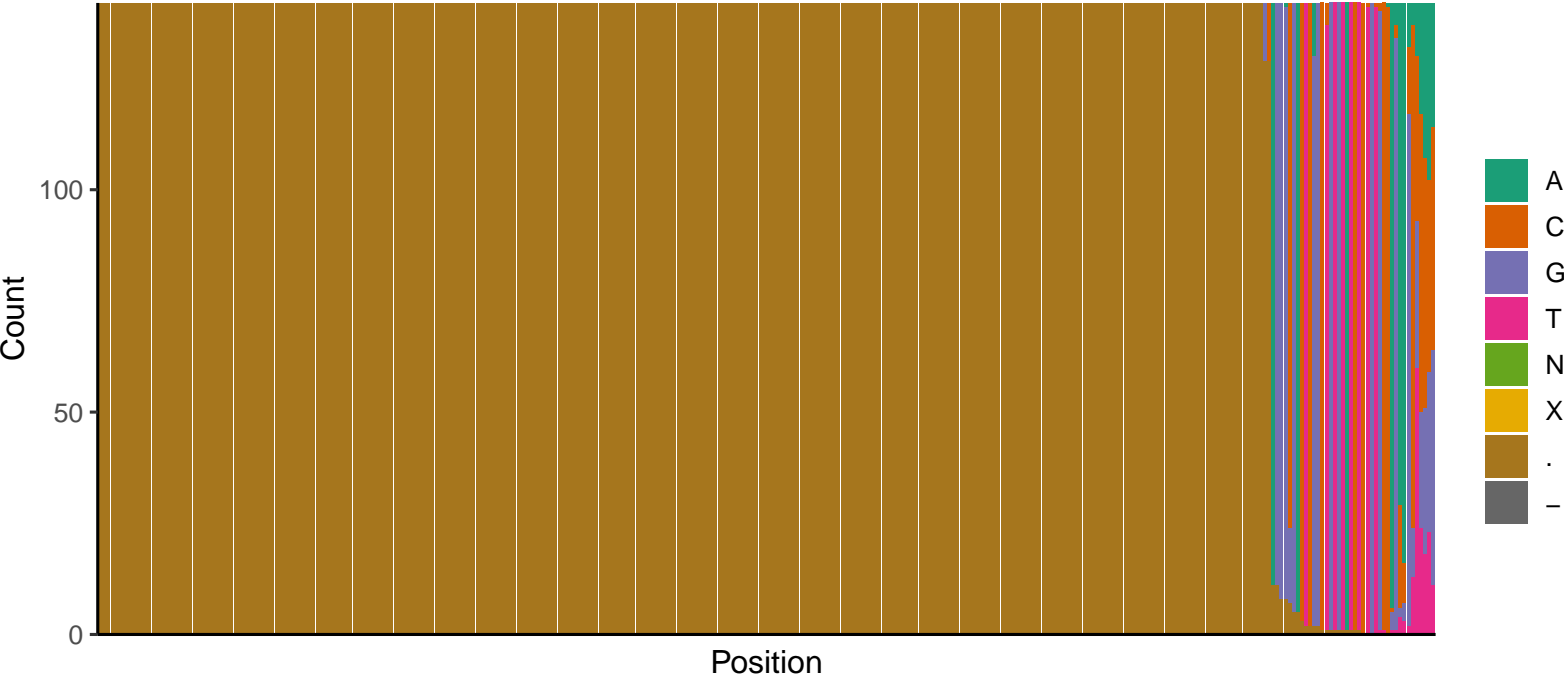
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



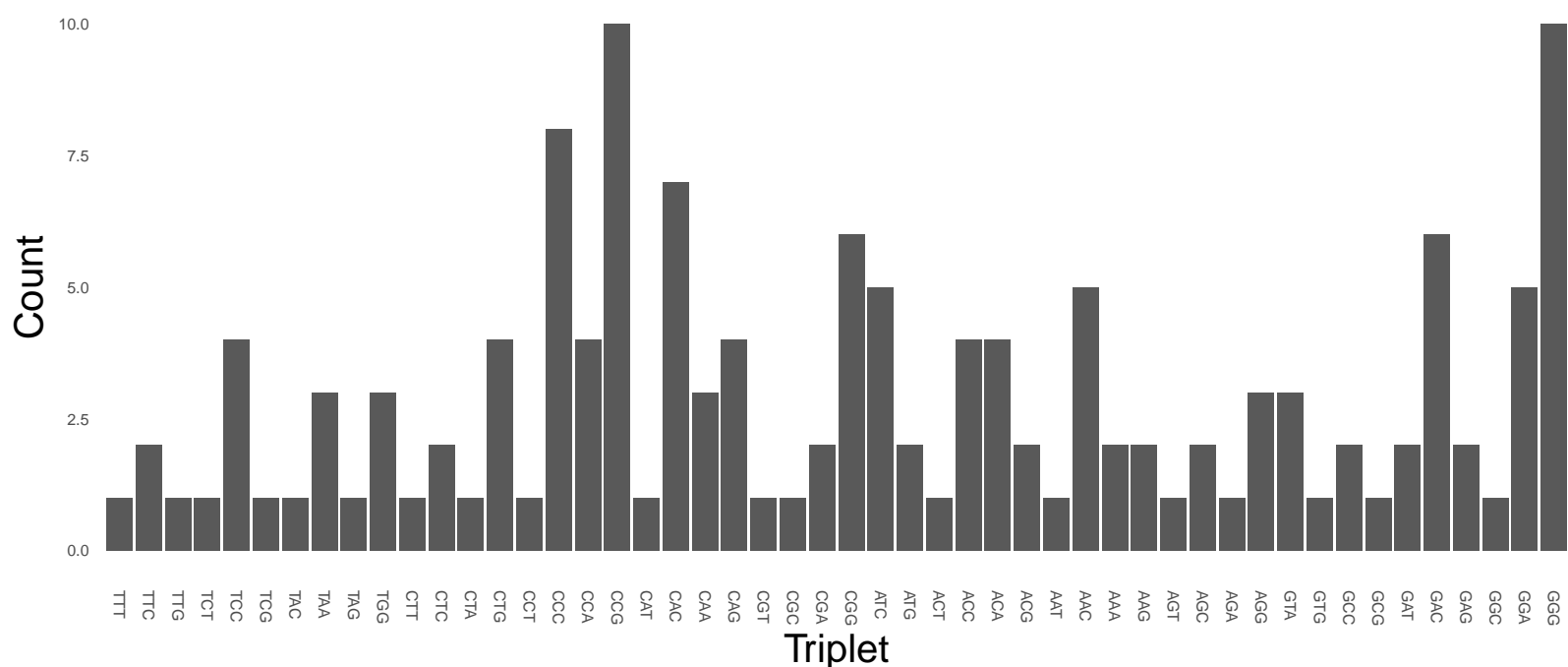
Gene TRBV7-1\*ap01\_T296C



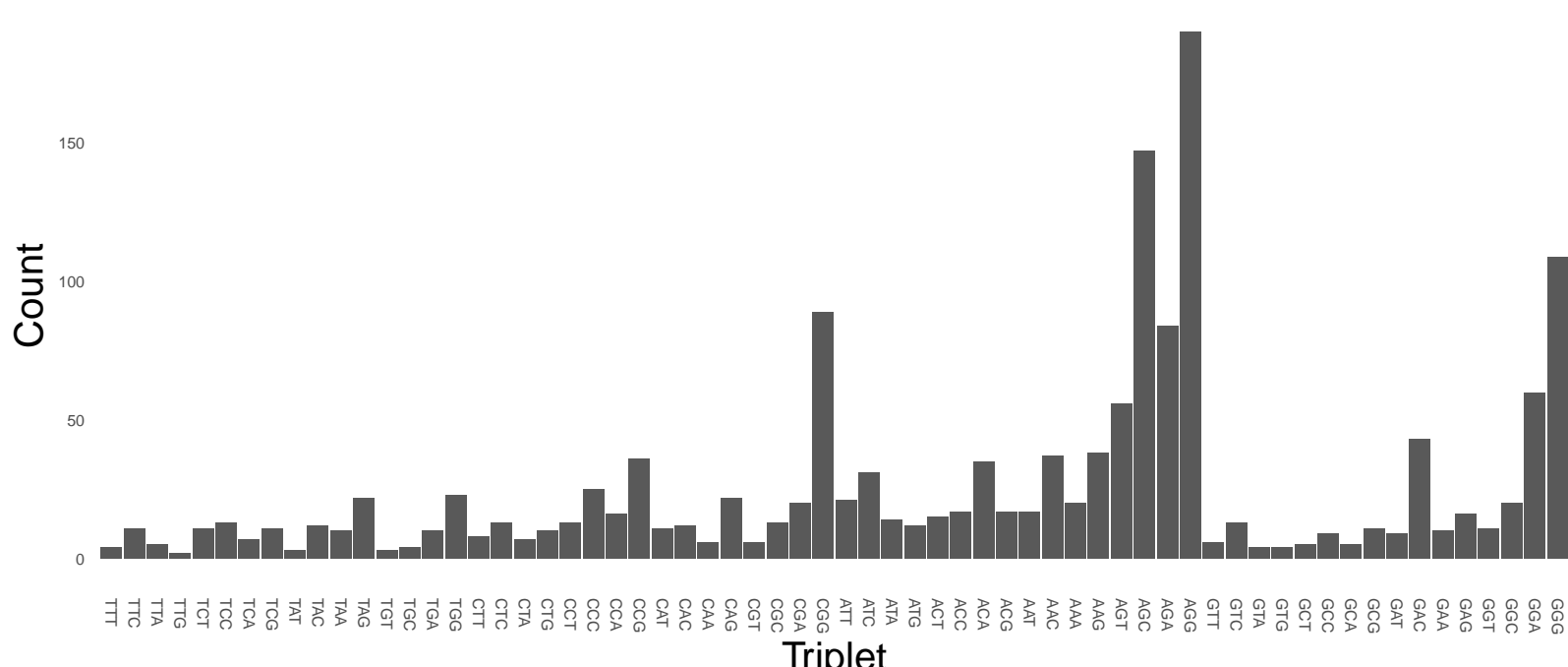
Gene TRBV7-7\*ap01\_C315T



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

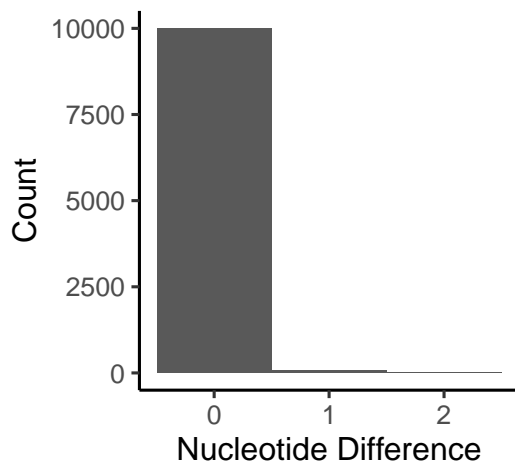


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



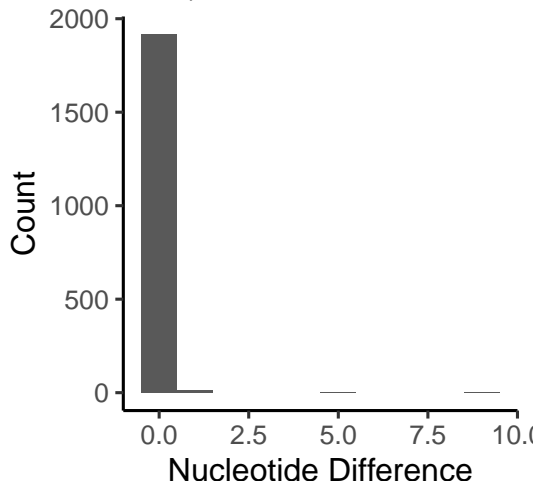
### TRBV20-1\*ap01

10078 sequences assigned  
10006 (99.3%) exact matches, in which:  
9928 unique CDR3  
13 unique J



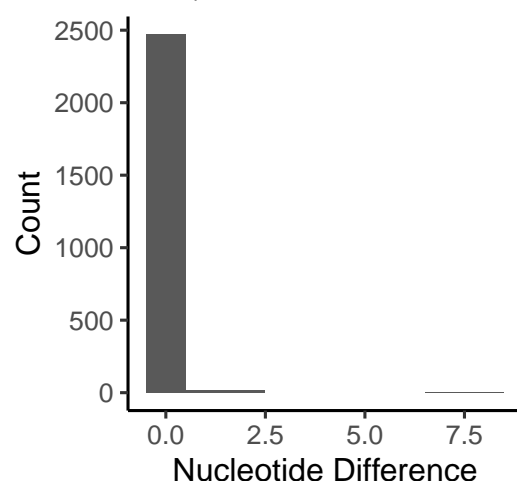
### TRBV10-2\*ap01

1932 sequences assigned  
1916 (99.2%) exact matches, in which:  
1889 unique CDR3  
13 unique J



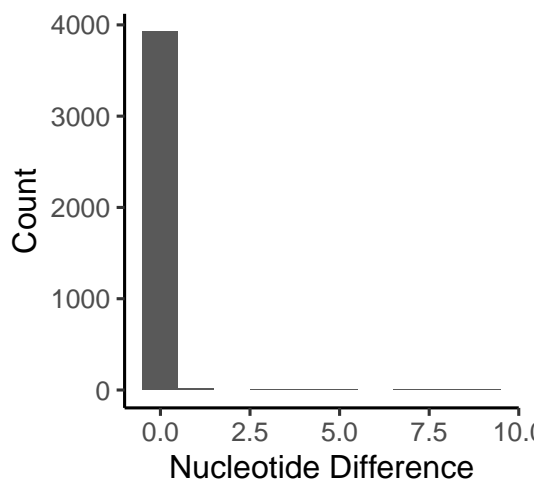
### TRBV13\*ap01

2508 sequences assigned  
2471 (98.5%) exact matches, in which:  
2429 unique CDR3  
13 unique J



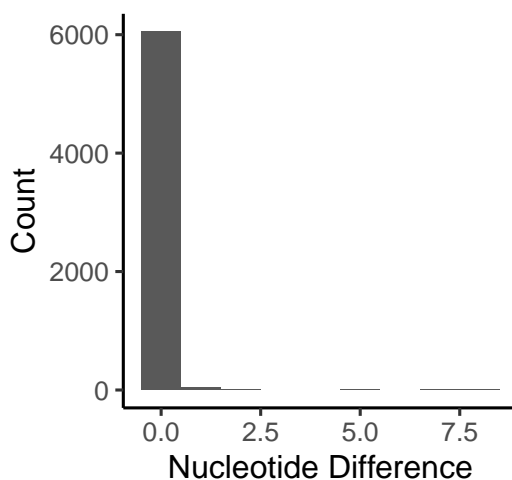
### TRBV10-1\*ap01

3946 sequences assigned  
3925 (99.5%) exact matches, in which:  
3883 unique CDR3  
13 unique J



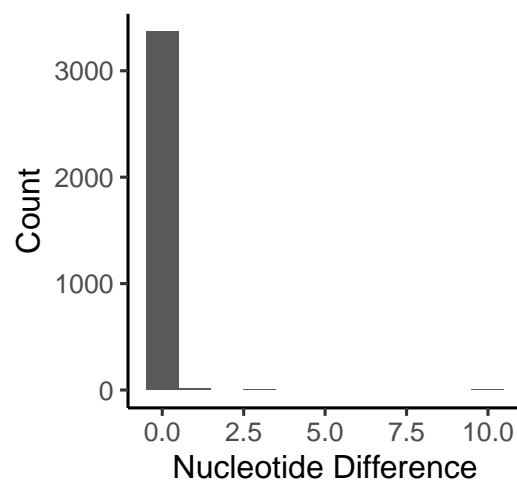
### TRBV10-3\*ap01

6096 sequences assigned  
6050 (99.2%) exact matches, in which:  
5975 unique CDR3  
13 unique J



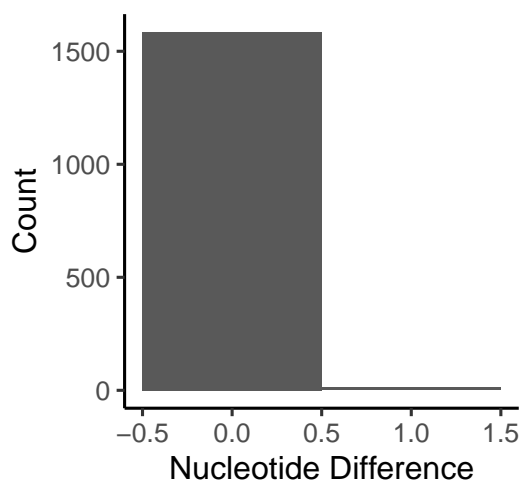
### TRBV14\*ap01

3382 sequences assigned  
3367 (99.6%) exact matches, in which:  
3329 unique CDR3  
13 unique J



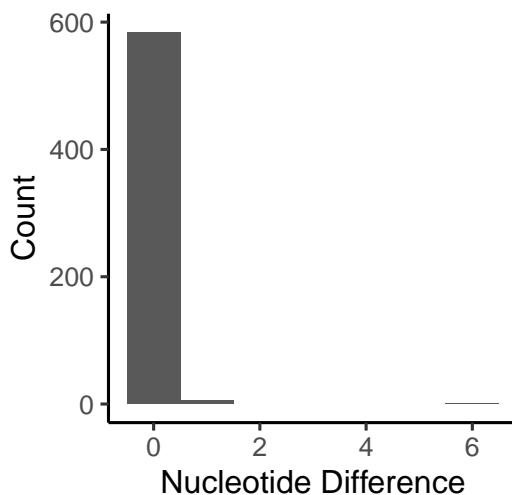
### TRBV20-1\*ap02

1597 sequences assigned  
1585 (99.2%) exact matches, in which:  
1570 unique CDR3  
13 unique J



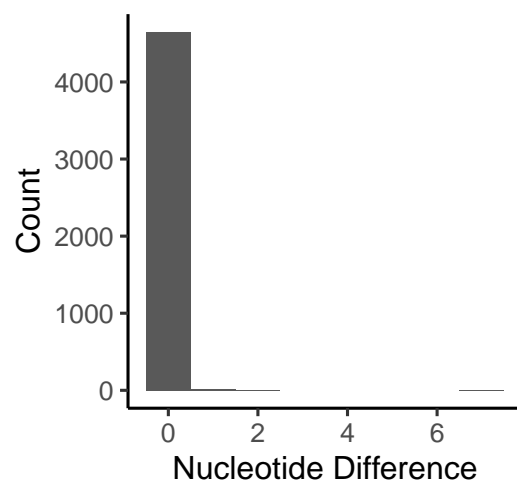
### TRBV1\*ap01

591 sequences assigned  
584 (98.8%) exact matches, in which:  
574 unique CDR3  
13 unique J



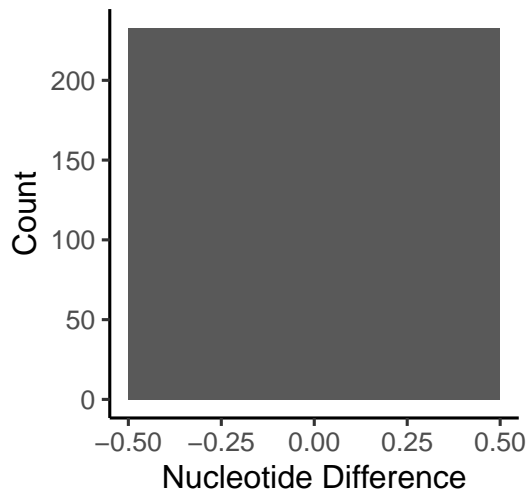
### TRBV15\*ap02

4671 sequences assigned  
4647 (99.5%) exact matches, in which:  
4577 unique CDR3  
13 unique J



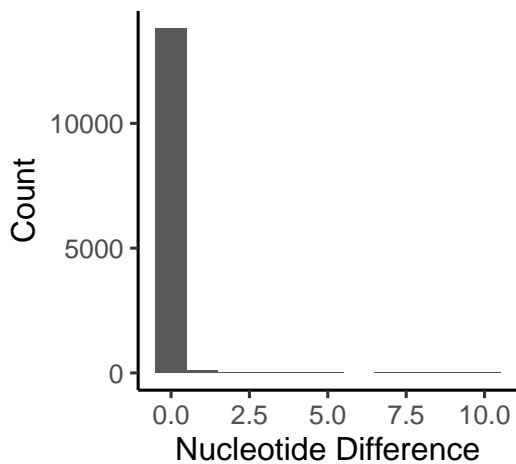
### TRBV16\*ap01

233 sequences assigned  
233 (100%) exact matches, in which:  
230 unique CDR3  
13 unique J



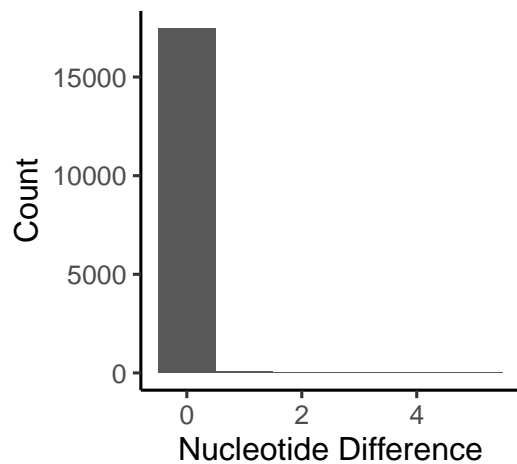
### TRBV19\*ap01

13917 sequences assigned  
13815 (99.3%) exact matches, in which:  
13724 unique CDR3  
13 unique J



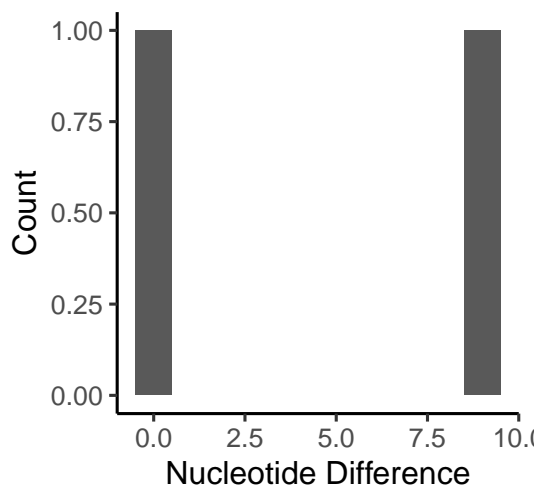
### TRBV28\*ap01

17577 sequences assigned  
17478 (99.4%) exact matches, in which:  
17337 unique CDR3  
14 unique J



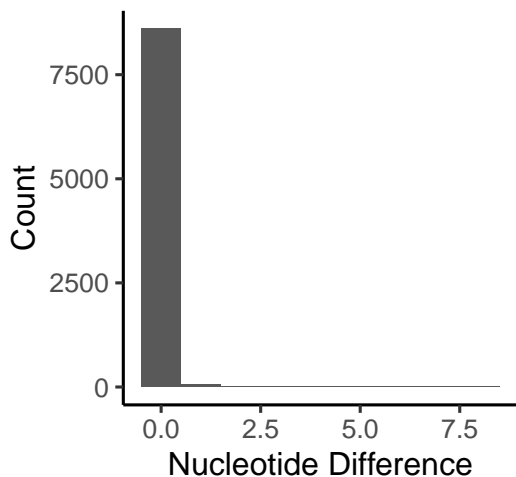
### TRBV17\*ap01

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



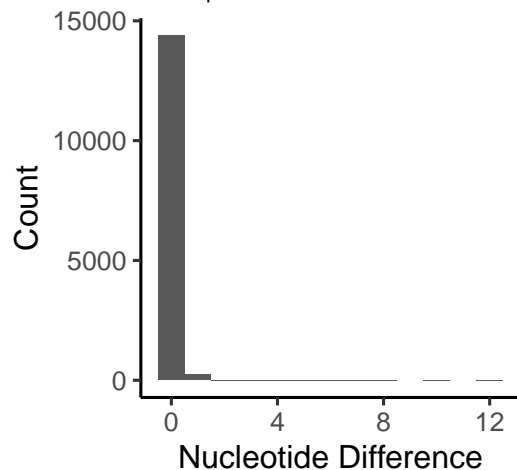
### TRBV2\*ap01

8674 sequences assigned  
8603 (99.2%) exact matches, in which:  
8506 unique CDR3  
13 unique J



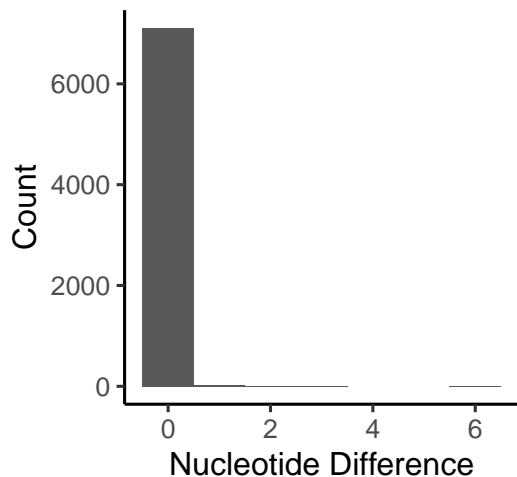
### TRBV30\*ap01

14663 sequences assigned  
14389 (98.1%) exact matches, in which:  
14049 unique CDR3  
13 unique J



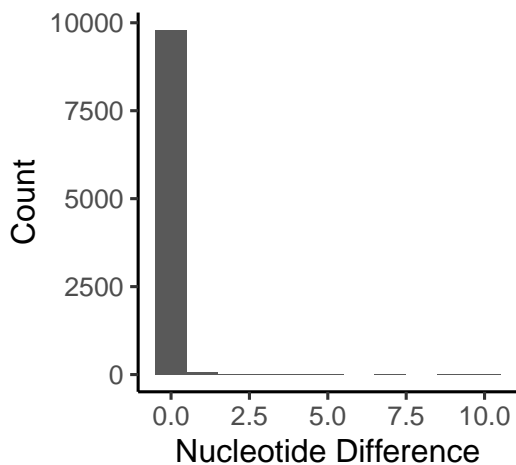
### TRBV18\*ap01

7138 sequences assigned  
7107 (99.6%) exact matches, in which:  
7068 unique CDR3  
13 unique J



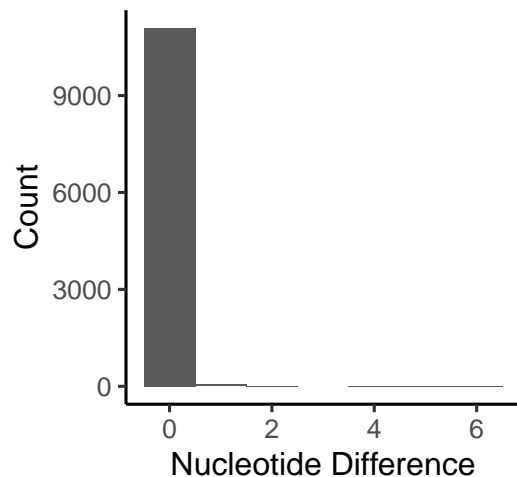
### TRBV27\*ap01

9880 sequences assigned  
9800 (99.2%) exact matches, in which:  
9713 unique CDR3  
13 unique J



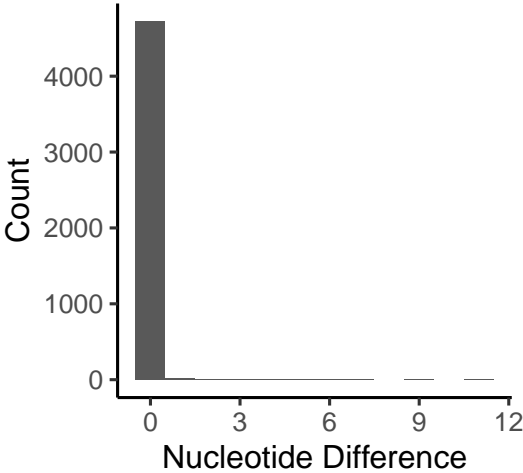
### TRBV9\*ap01

11156 sequences assigned  
11090 (99.4%) exact matches, in which:  
11007 unique CDR3  
13 unique J



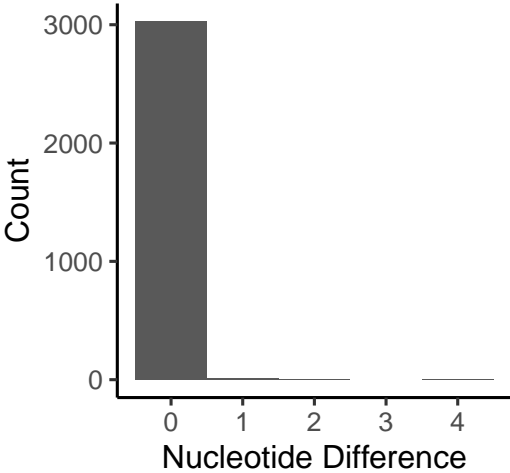
TRBV21-1\*ap01

4790 sequences assigned  
4722 (98.6%) exact matches, in which:  
4703 unique CDR3  
14 unique J



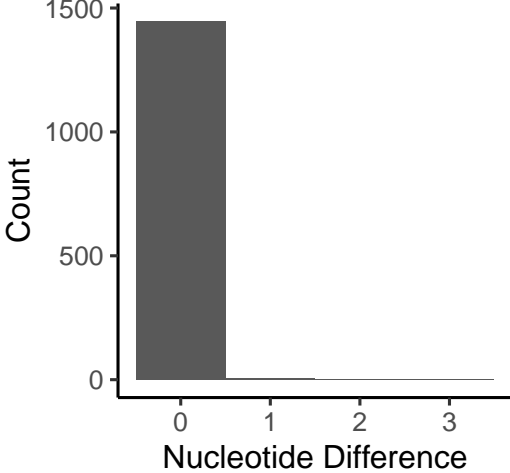
TRBV11-3\*ap01

3044 sequences assigned  
3028 (99.5%) exact matches, in which:  
3009 unique CDR3  
13 unique J



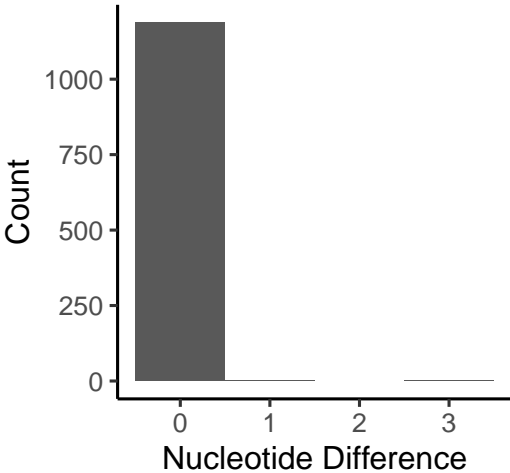
TRBV12-5\*ap01

1457 sequences assigned  
1446 (99.2%) exact matches, in which:  
1433 unique CDR3  
13 unique J



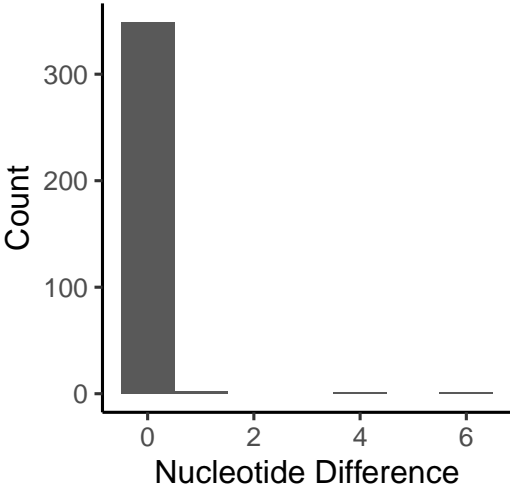
TRBV11-1\*ap01

1190 sequences assigned  
1187 (99.7%) exact matches, in which:  
1184 unique CDR3  
13 unique J



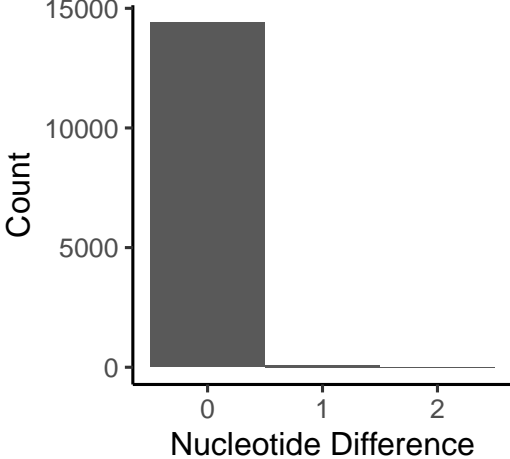
TRBV12-1\*ap01

353 sequences assigned  
349 (98.9%) exact matches, in which:  
347 unique CDR3  
13 unique J



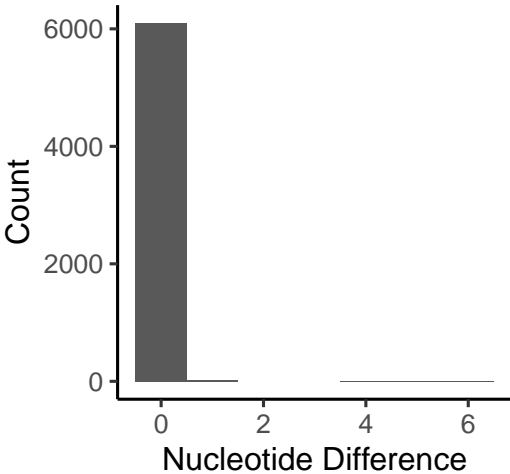
TRBV12-34\*ap01

14500 sequences assigned  
14408 (99.4%) exact matches, in which:  
14254 unique CDR3  
13 unique J



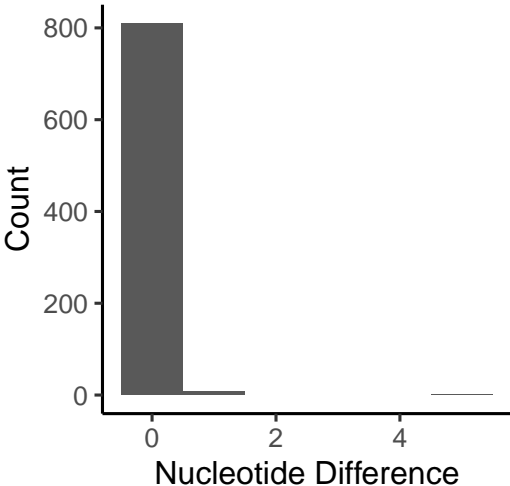
TRBV11-2\*ap01

6123 sequences assigned  
6099 (99.6%) exact matches, in which:  
6063 unique CDR3  
13 unique J



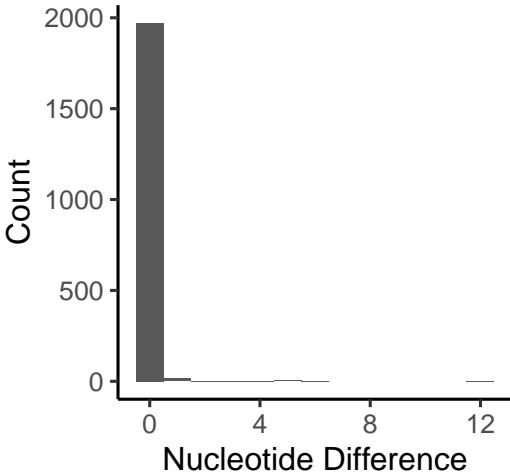
TRBV12-2\*ap01

819 sequences assigned  
810 (98.9%) exact matches, in which:  
803 unique CDR3  
13 unique J



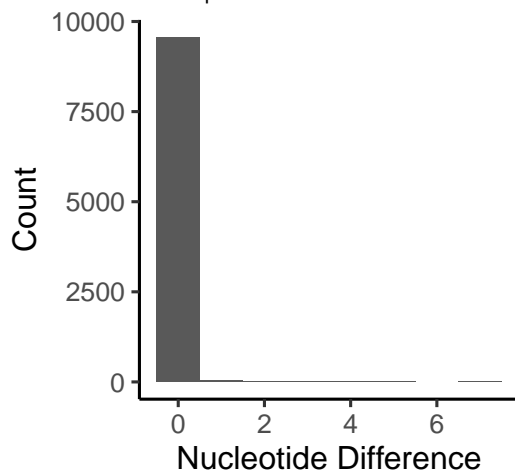
TRBV23-1\*ap01

1998 sequences assigned  
1971 (98.6%) exact matches, in which:  
1948 unique CDR3  
13 unique J



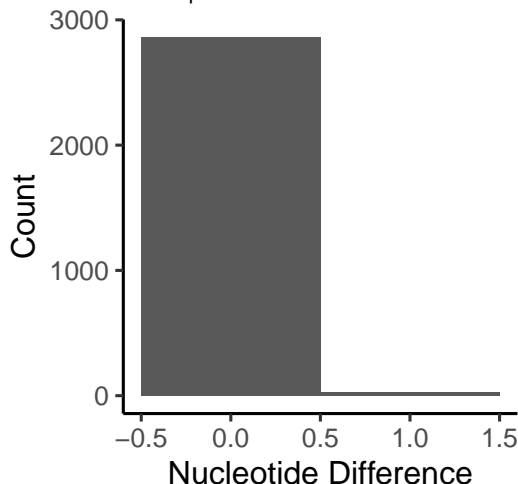
### TRBV3–12\*ap01

9623 sequences assigned  
9566 (99.4%) exact matches, in which:  
9523 unique CDR3  
13 unique J



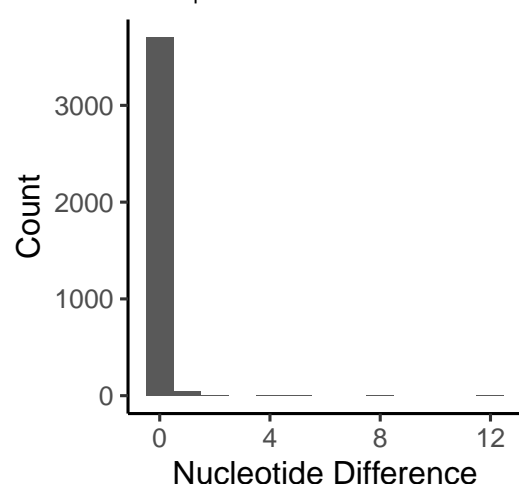
### TRBV4–2\*ap01

2892 sequences assigned  
2860 (98.9%) exact matches, in which:  
2813 unique CDR3  
13 unique J



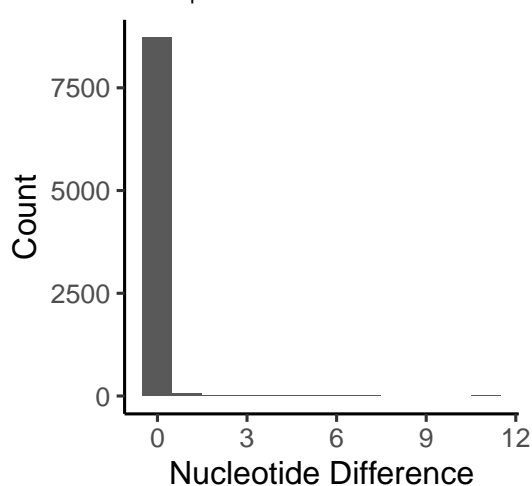
### TRBV25–1\*ap01

3754 sequences assigned  
3702 (98.6%) exact matches, in which:  
3629 unique CDR3  
13 unique J



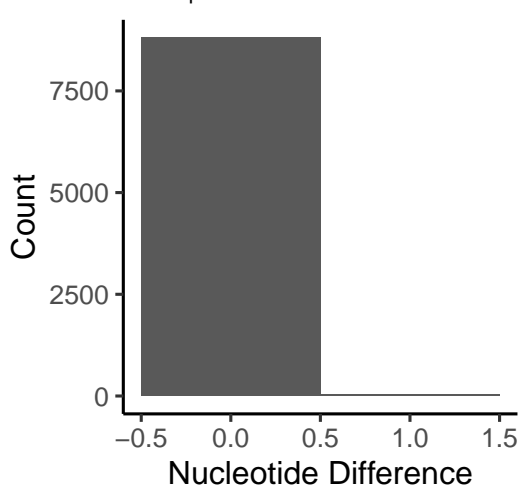
### TRBV24–1\*ap01

8806 sequences assigned  
8719 (99%) exact matches, in which:  
8591 unique CDR3  
13 unique J



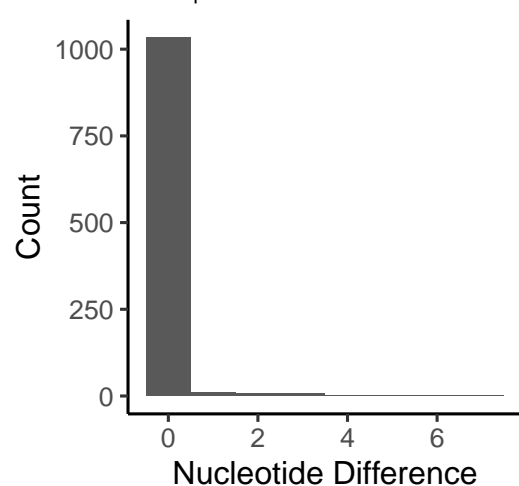
### TRBV4–3\*ap01

8849 sequences assigned  
8807 (99.5%) exact matches, in which:  
8670 unique CDR3  
13 unique J



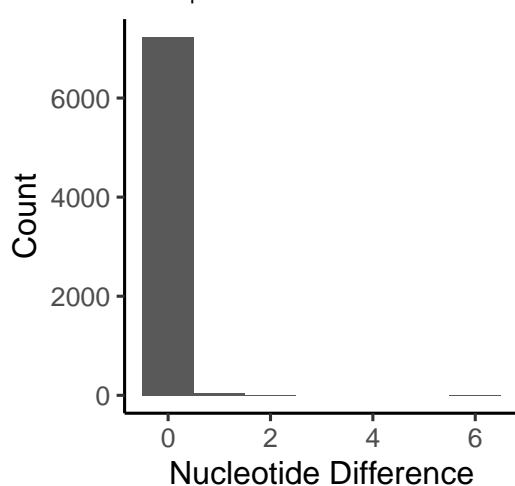
### TRBV5–3\*ap01

1059 sequences assigned  
1033 (97.5%) exact matches, in which:  
1026 unique CDR3  
13 unique J



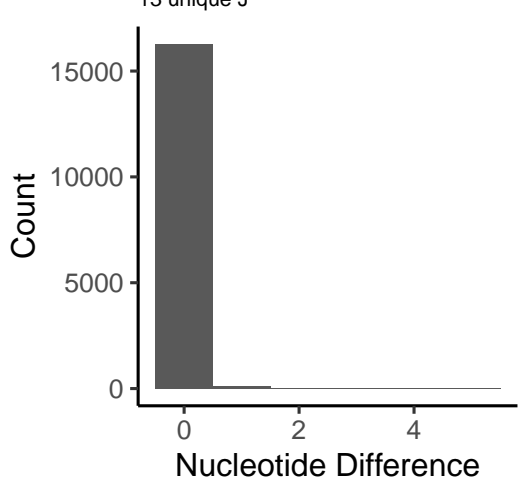
### TRBV4–1\*ap01

7285 sequences assigned  
7231 (99.3%) exact matches, in which:  
7114 unique CDR3  
13 unique J



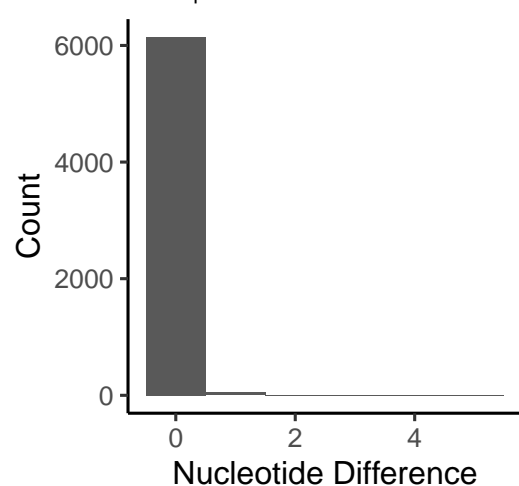
### TRBV5–1\*ap01

16392 sequences assigned  
16288 (99.4%) exact matches, in which:  
16016 unique CDR3  
13 unique J



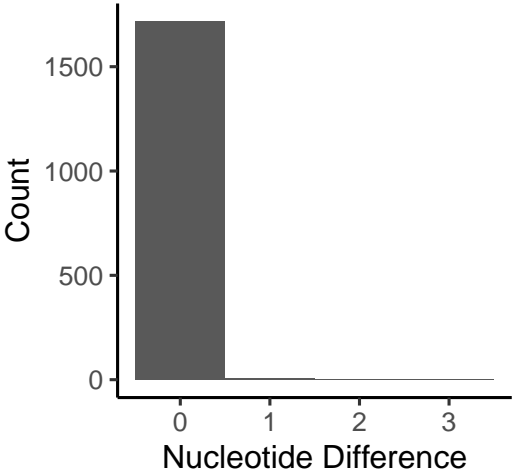
### TRBV5–4\*ap01

6196 sequences assigned  
6144 (99.2%) exact matches, in which:  
6049 unique CDR3  
13 unique J



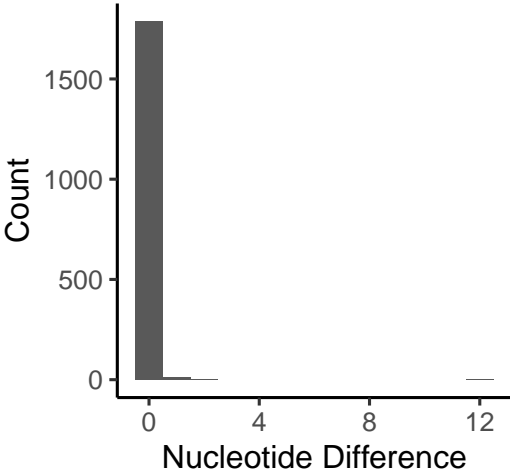
TRBV5-5\*ap01

1728 sequences assigned  
1717 (99.4%) exact matches, in which:  
1712 unique CDR3  
13 unique J



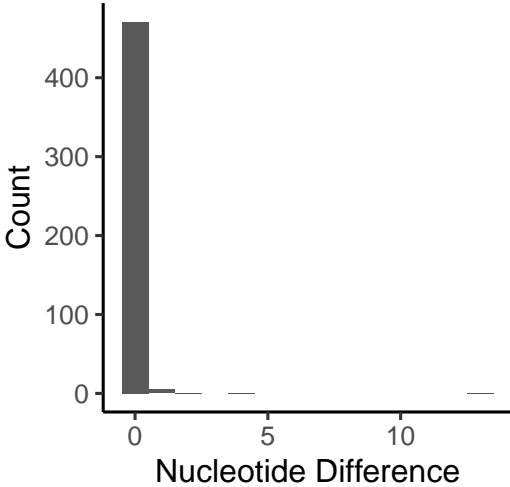
TRBV5-8\*ap01

1801 sequences assigned  
1787 (99.2%) exact matches, in which:  
1776 unique CDR3  
13 unique J



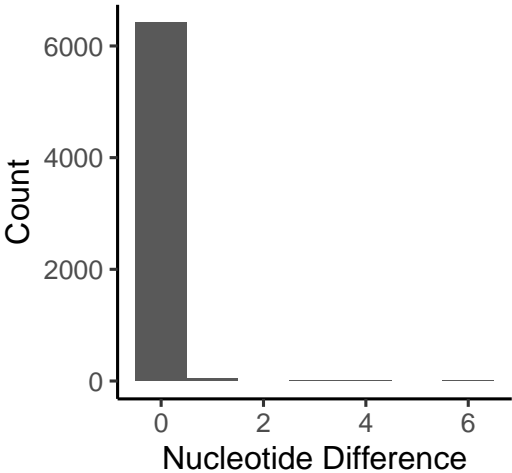
TRBV6-7\*ap01

479 sequences assigned  
471 (98.3%) exact matches, in which:  
463 unique CDR3  
13 unique J



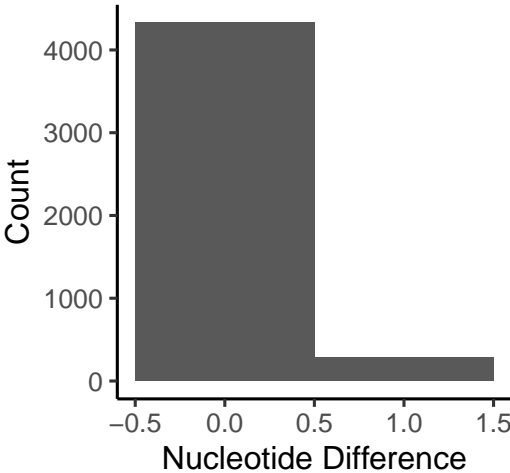
TRBV5-6\*ap01

6467 sequences assigned  
6416 (99.2%) exact matches, in which:  
6264 unique CDR3  
13 unique J



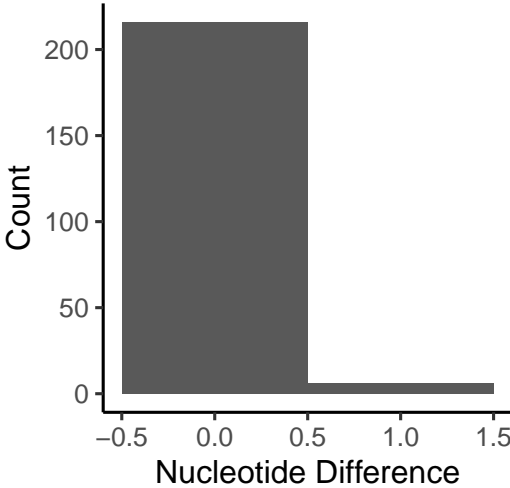
TRBV6-1\*ap01

4613 sequences assigned  
4329 (93.8%) exact matches, in which:  
4248 unique CDR3  
13 unique J



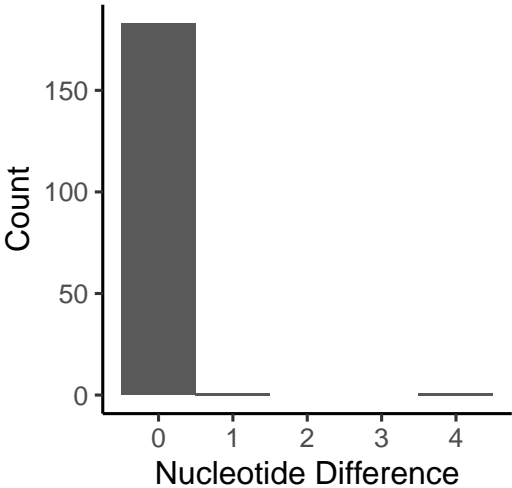
TRBV6-8\*ap01

222 sequences assigned  
216 (97.3%) exact matches, in which:  
210 unique CDR3  
13 unique J



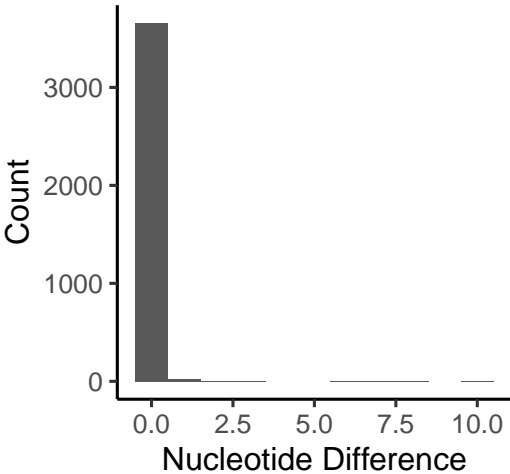
TRBV5-7\*ap01

185 sequences assigned  
183 (98.9%) exact matches, in which:  
178 unique CDR3  
13 unique J



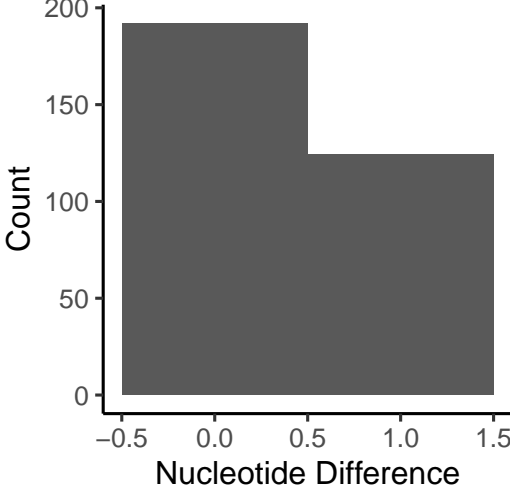
TRBV6-4\*ap01

3692 sequences assigned  
3657 (99.1%) exact matches, in which:  
3628 unique CDR3  
13 unique J



TRBV6-9\*ap01

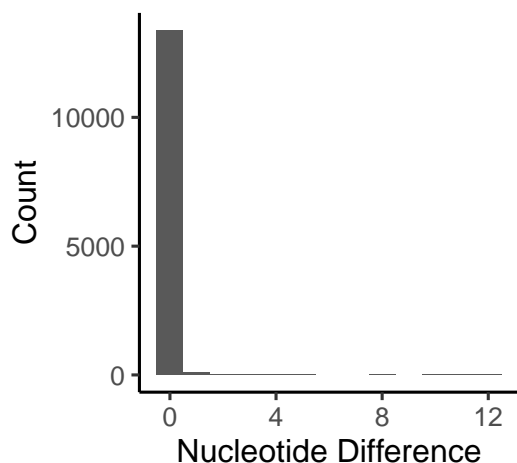
316 sequences assigned  
192 (60.8%) exact matches, in which:  
192 unique CDR3  
13 unique J





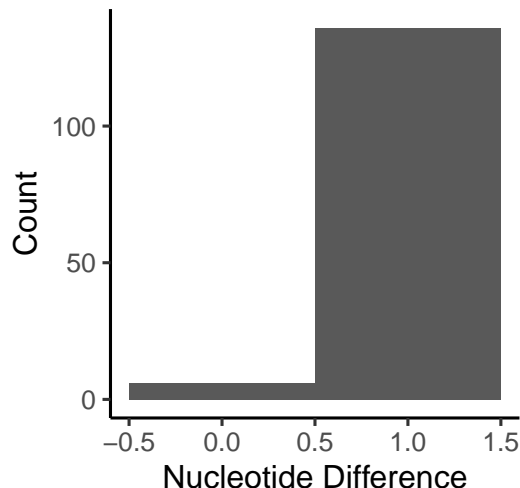
### TRBV6-23\*ap01

13506 sequences assigned  
13386 (99.1%) exact matches, in which:  
13060 unique CDR3  
14 unique J



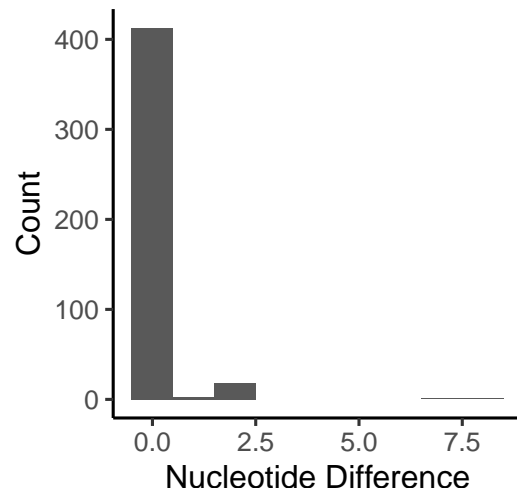
### TRBV7-1\*ap01\_T296C

142 sequences assigned  
6 (4.2%) exact matches, in which:  
6 unique CDR3  
5 unique J



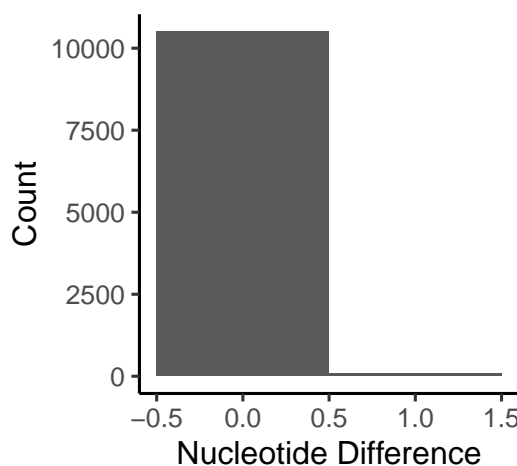
### TRBV7-4\*ap01

436 sequences assigned  
413 (94.7%) exact matches, in which:  
409 unique CDR3  
13 unique J



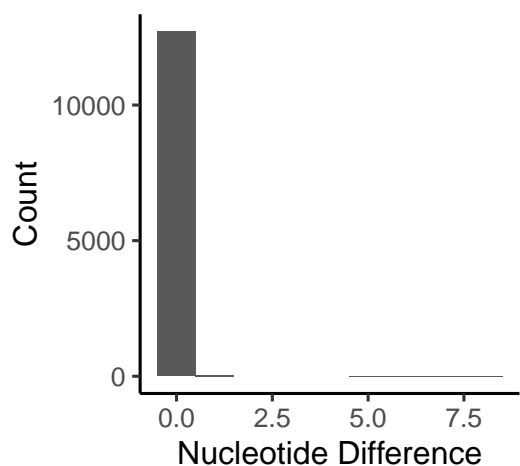
### TRBV6-56\*ap01

10598 sequences assigned  
10511 (99.2%) exact matches, in which:  
10264 unique CDR3  
13 unique J



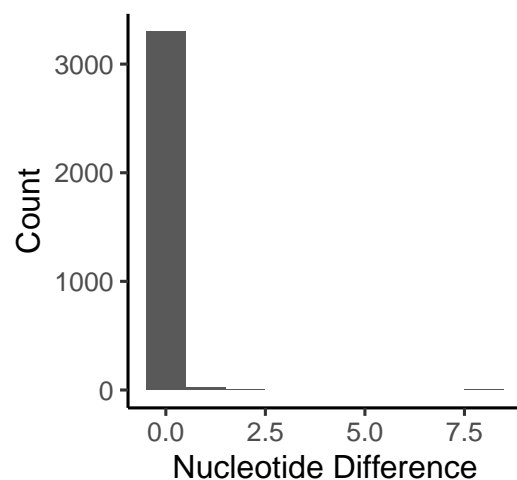
### TRBV7-2\*ap01

12772 sequences assigned  
12713 (99.5%) exact matches, in which:  
12605 unique CDR3  
13 unique J



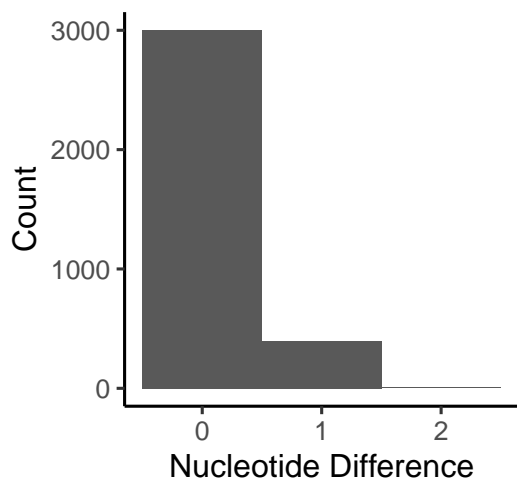
### TRBV7-6\*ap01

3323 sequences assigned  
3298 (99.2%) exact matches, in which:  
3261 unique CDR3  
13 unique J



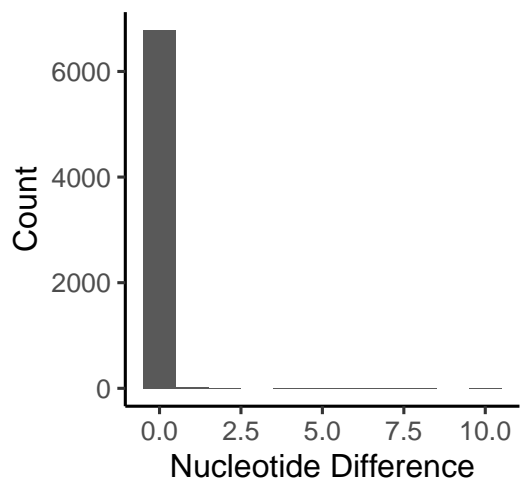
### TRBV6-56\*ap02

3402 sequences assigned  
3002 (88.2%) exact matches, in which:  
2923 unique CDR3  
13 unique J



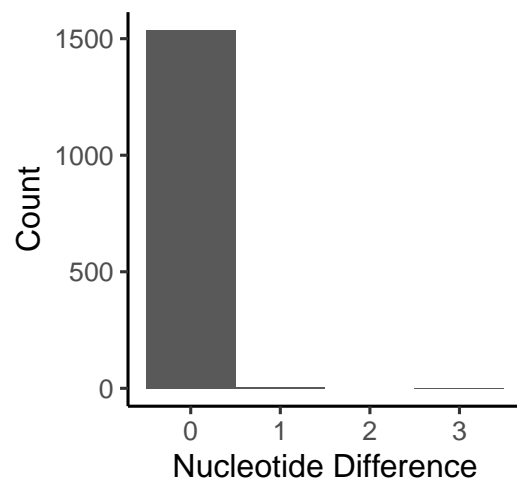
### TRBV7-3\*ap01

6826 sequences assigned  
6784 (99.4%) exact matches, in which:  
6741 unique CDR3  
13 unique J



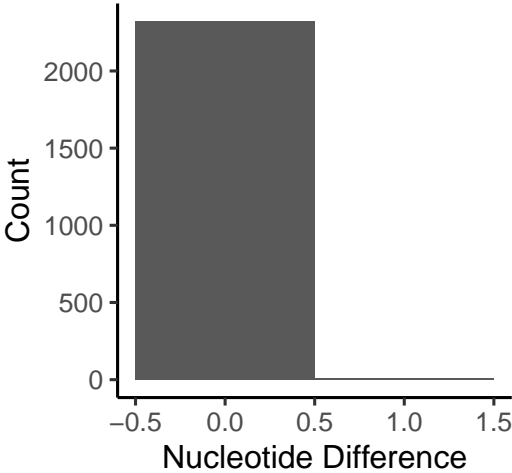
### TRBV7-7\*ap01\_C315T

1544 sequences assigned  
1537 (99.5%) exact matches, in which:  
1526 unique CDR3  
13 unique J



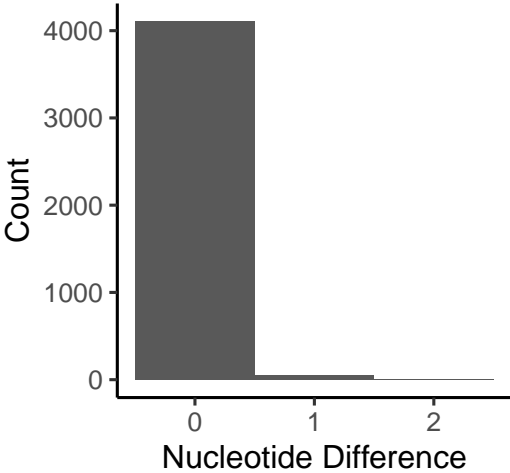
TRBV7-8\*ap01

2333 sequences assigned  
2321 (99.5%) exact matches, in which:  
2303 unique CDR3  
13 unique J



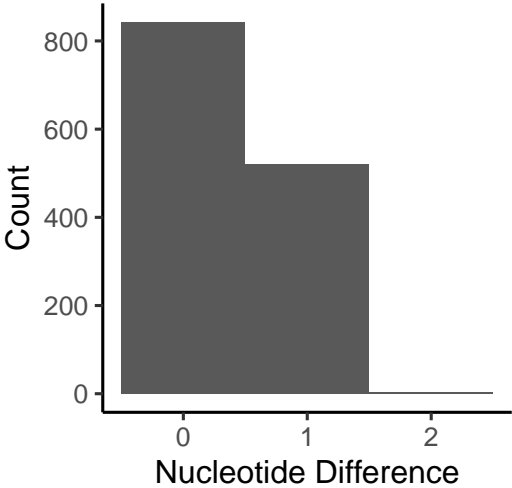
TRBV29-1\*ap01

4164 sequences assigned  
4106 (98.6%) exact matches, in which:  
3973 unique CDR3  
14 unique J



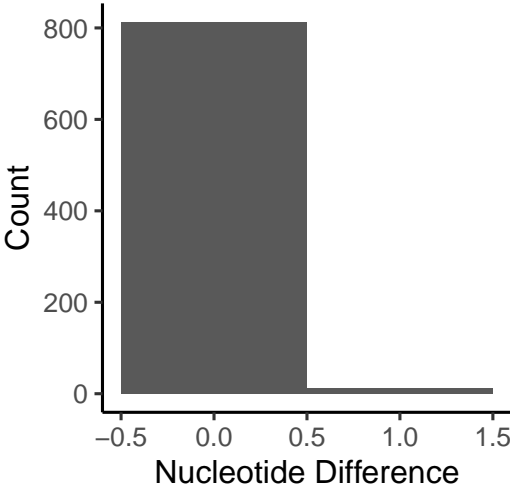
TRBV7-8\*ap03

1368 sequences assigned  
843 (61.6%) exact matches, in which:  
836 unique CDR3  
13 unique J



TRBV29-1\*ap02

824 sequences assigned  
813 (98.7%) exact matches, in which:  
791 unique CDR3  
13 unique J



TRBV7-9\*ap01

12511 sequences assigned  
12441 (99.4%) exact matches, in which:  
12336 unique CDR3  
13 unique J

