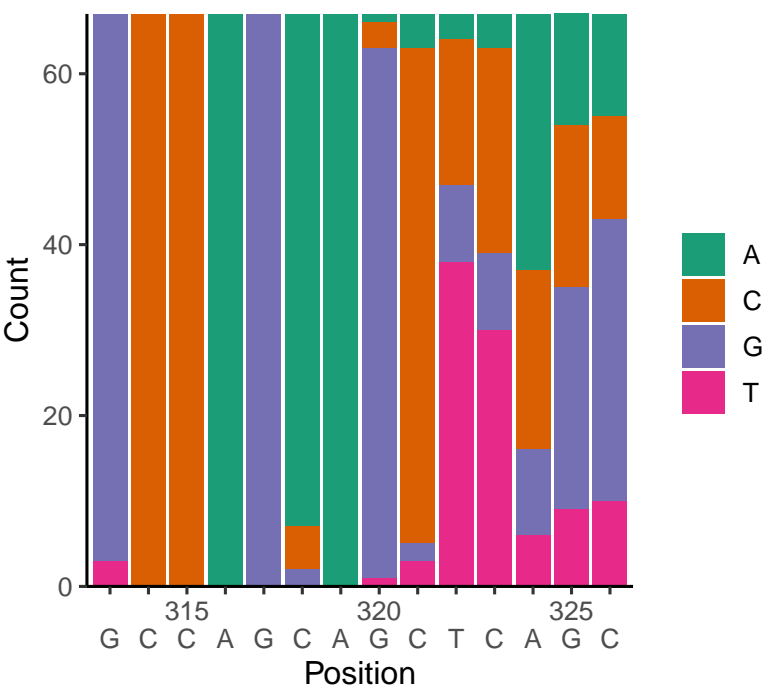
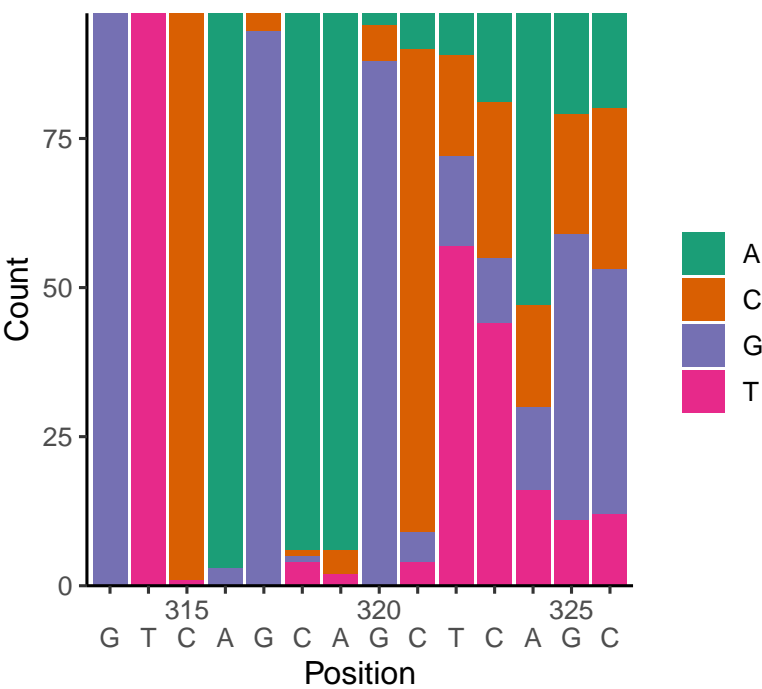


Gene TRBV7-1\*ap01\_G291C\_T296C



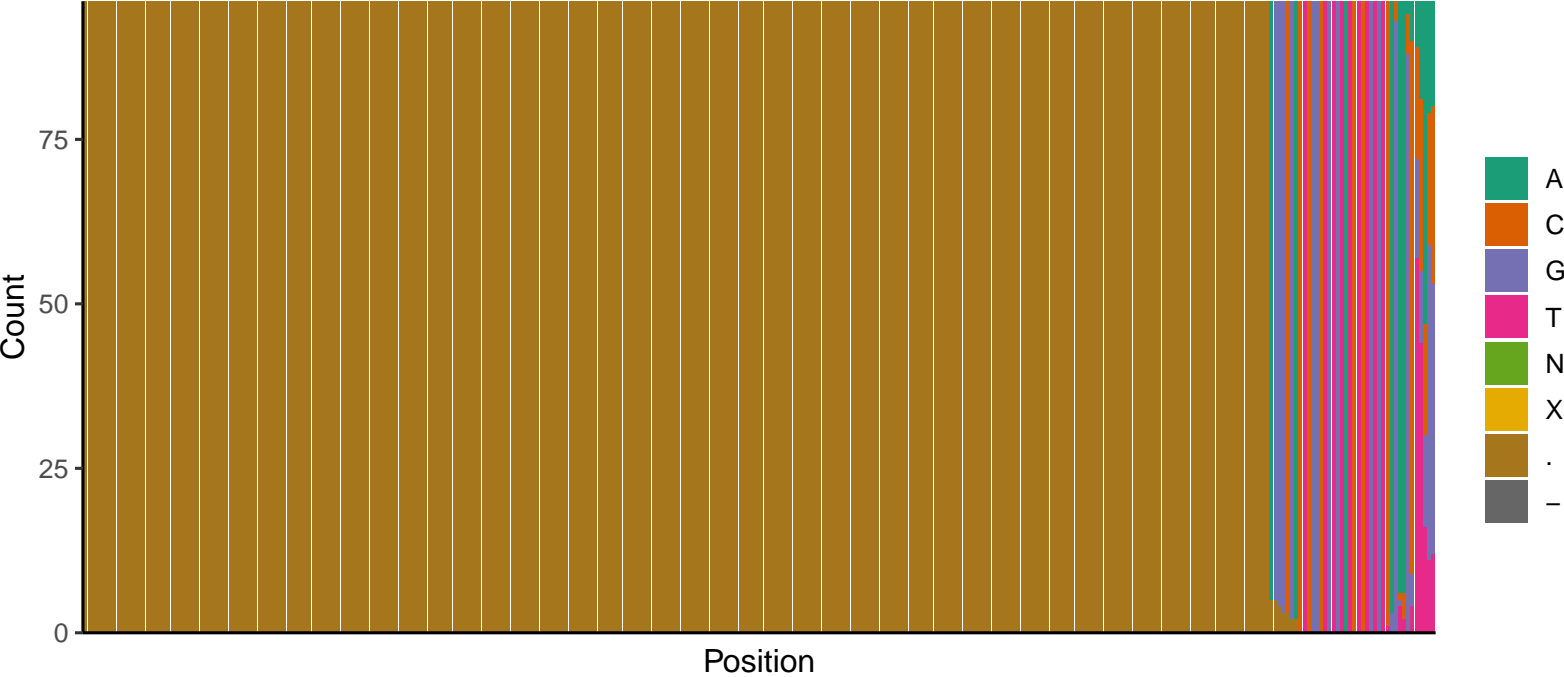
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



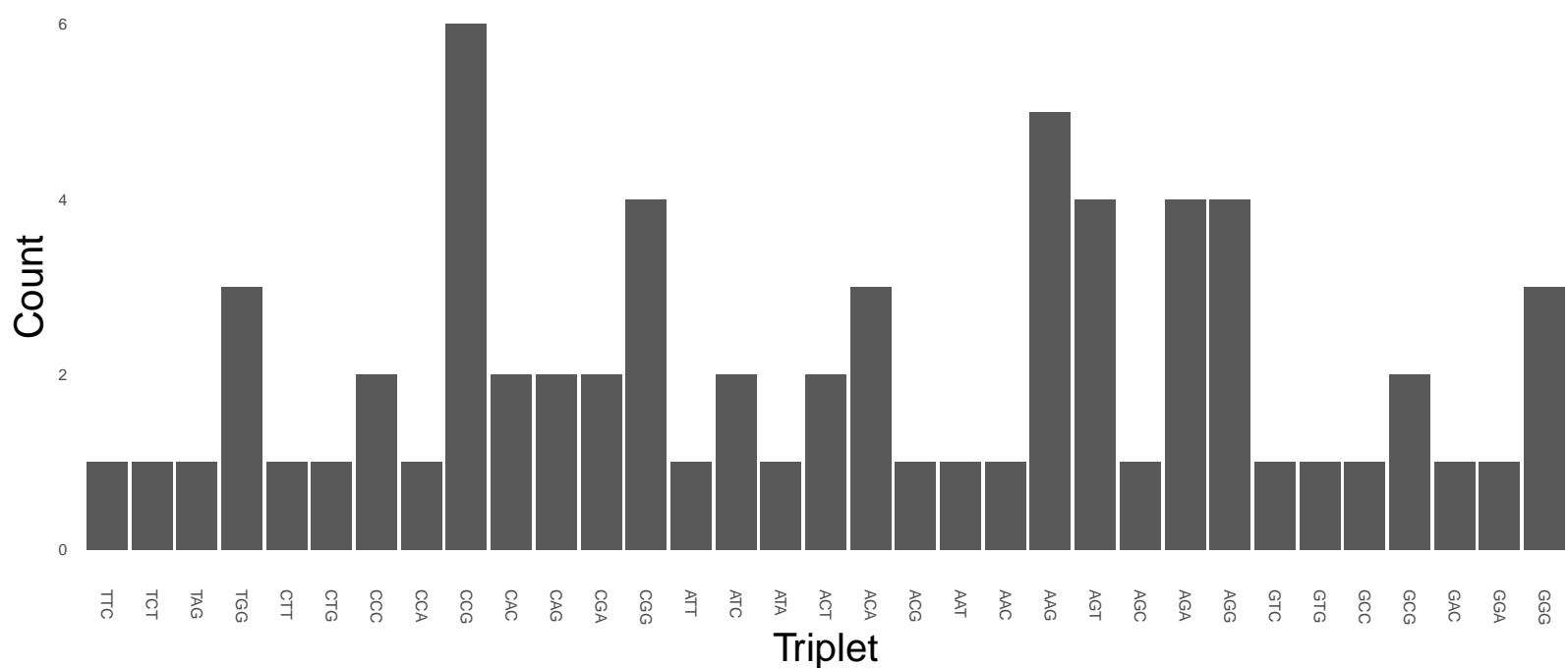
Gene TRBV7-1\*ap01\_G291C\_T296C



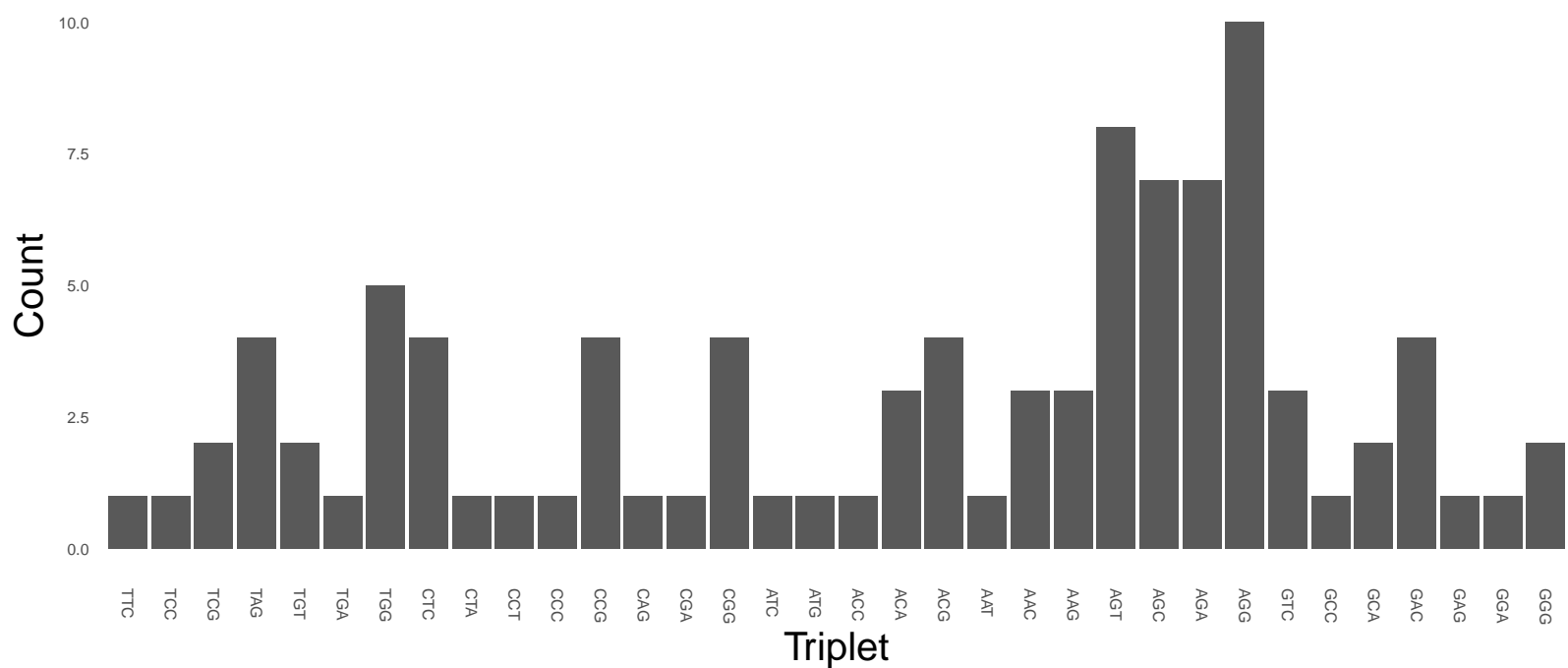
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



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

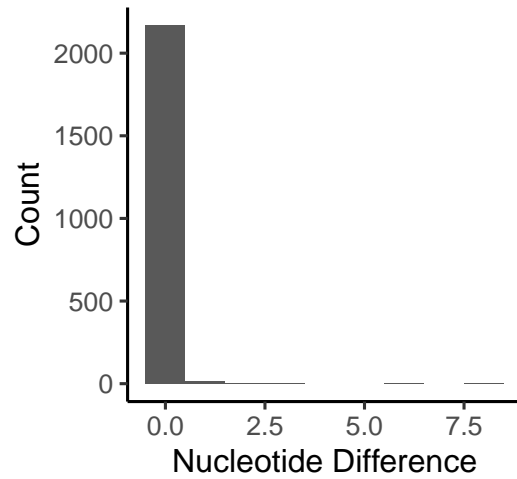


TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



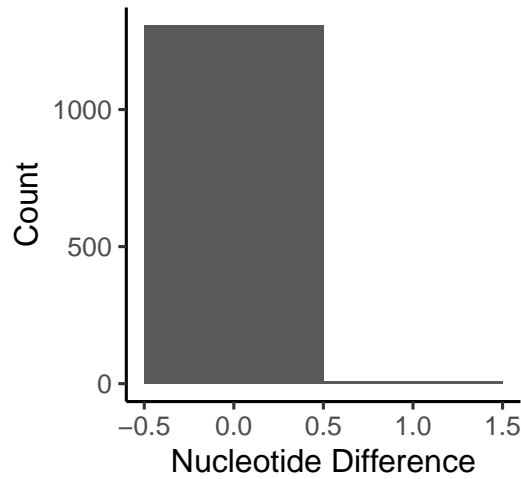
### TRBV10-1\*ap01

2188 sequences assigned  
2168 (99.1%) exact matches, in which:  
2123 unique CDR3  
13 unique J



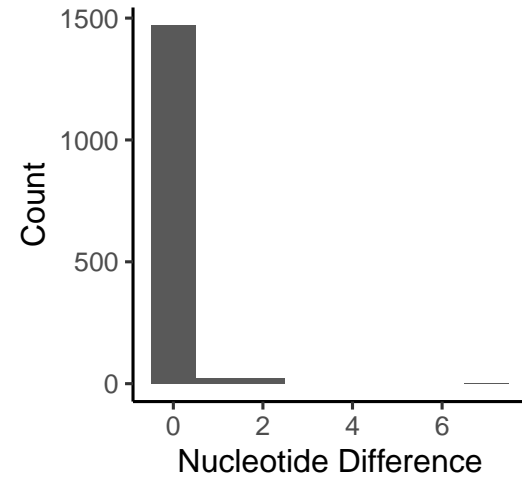
### TRBV10-2\*ap01

1316 sequences assigned  
1307 (99.3%) exact matches, in which:  
1268 unique CDR3  
13 unique J



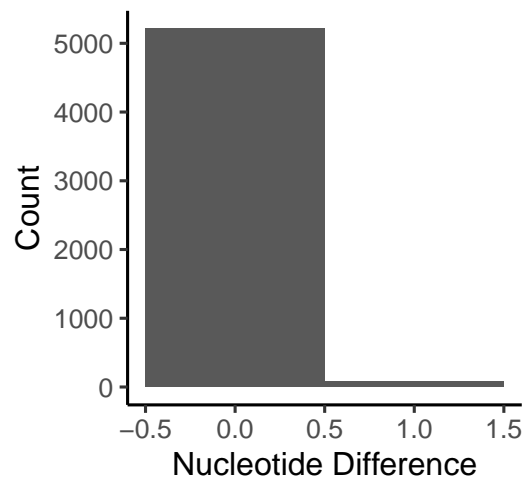
### TRBV13\*ap01

1515 sequences assigned  
1470 (97%) exact matches, in which:  
1438 unique CDR3  
13 unique J



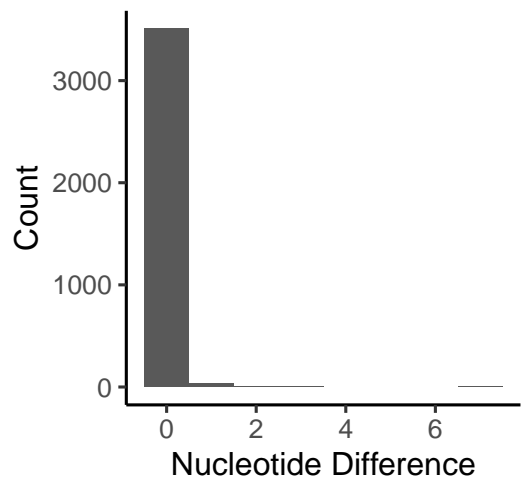
### TRBV20-1\*ap01

5287 sequences assigned  
5212 (98.6%) exact matches, in which:  
5121 unique CDR3  
13 unique J



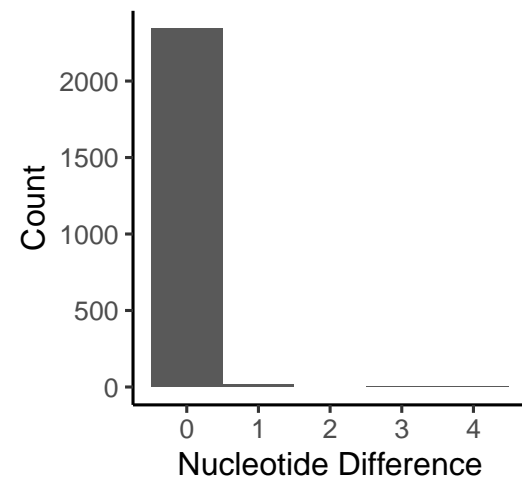
### TRBV10-3\*ap01

3544 sequences assigned  
3508 (99%) exact matches, in which:  
3427 unique CDR3  
13 unique J



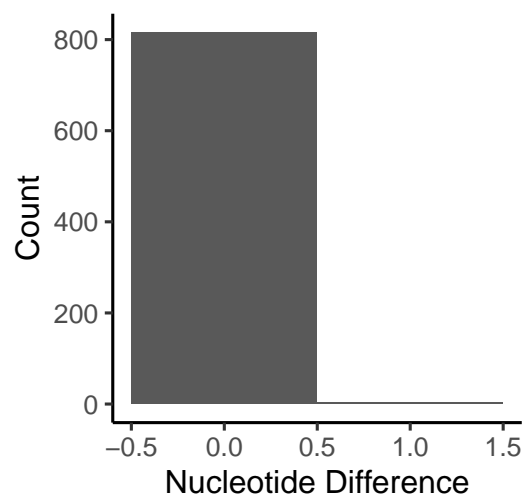
### TRBV14\*ap01

2363 sequences assigned  
2342 (99.1%) exact matches, in which:  
2304 unique CDR3  
13 unique J



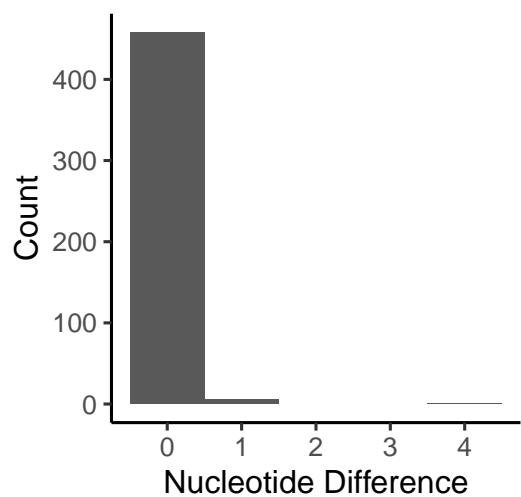
### TRBV20-1\*ap02

819 sequences assigned  
816 (99.6%) exact matches, in which:  
806 unique CDR3  
13 unique J



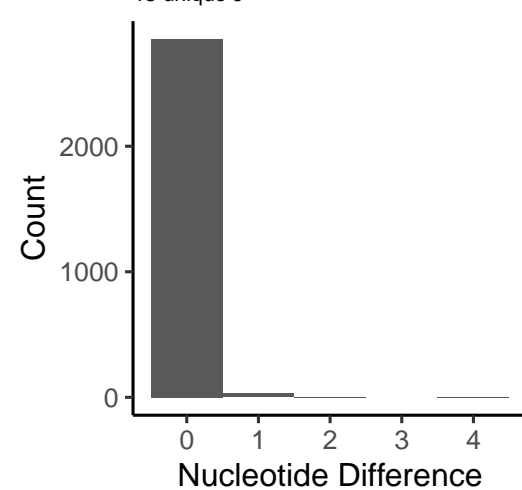
### TRBV1\*ap01

465 sequences assigned  
458 (98.5%) exact matches, in which:  
441 unique CDR3  
13 unique J



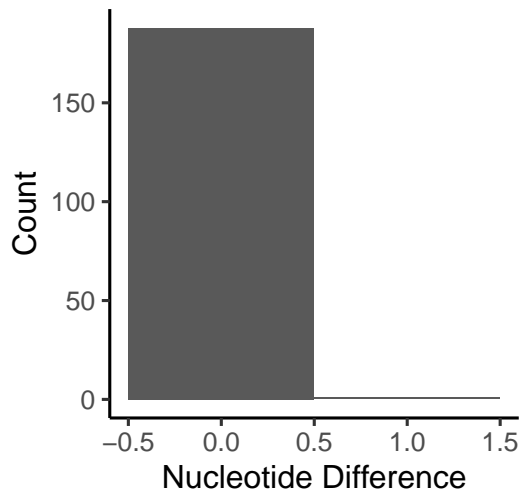
### TRBV15\*ap02

2886 sequences assigned  
2854 (98.9%) exact matches, in which:  
2787 unique CDR3  
13 unique J



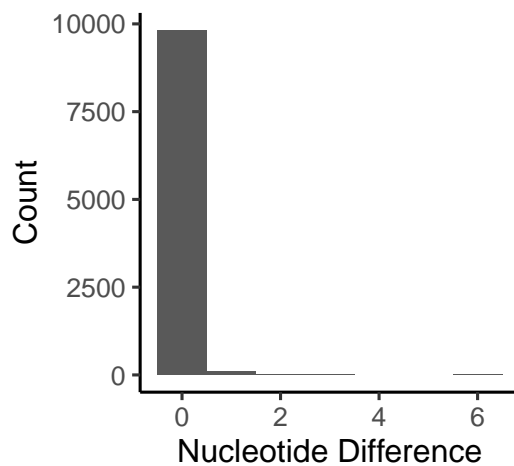
### TRBV16\*ap01

189 sequences assigned  
188 (99.5%) exact matches, in which:  
183 unique CDR3  
13 unique J



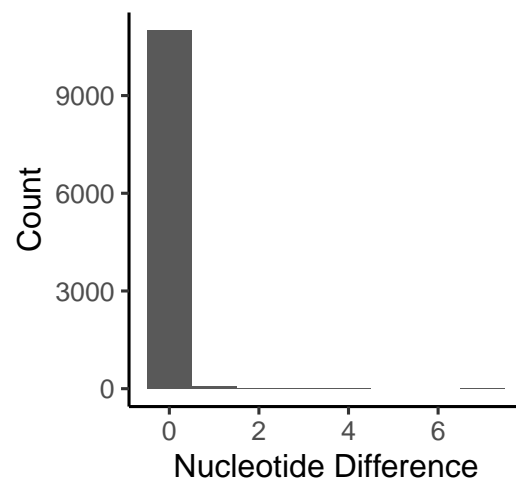
### TRBV2\*ap01

9933 sequences assigned  
9822 (98.9%) exact matches, in which:  
9638 unique CDR3  
13 unique J



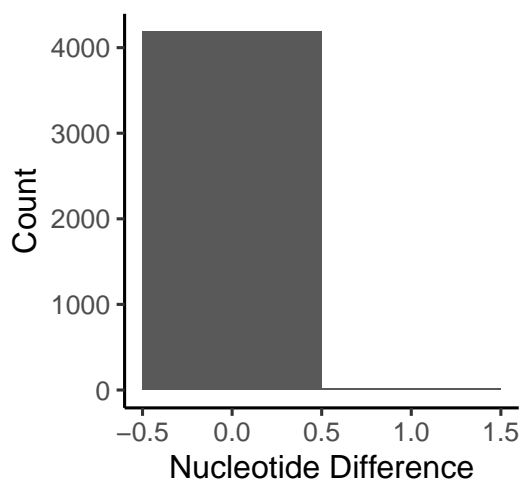
### TRBV28\*ap01

11097 sequences assigned  
11001 (99.1%) exact matches, in which:  
10788 unique CDR3  
13 unique J



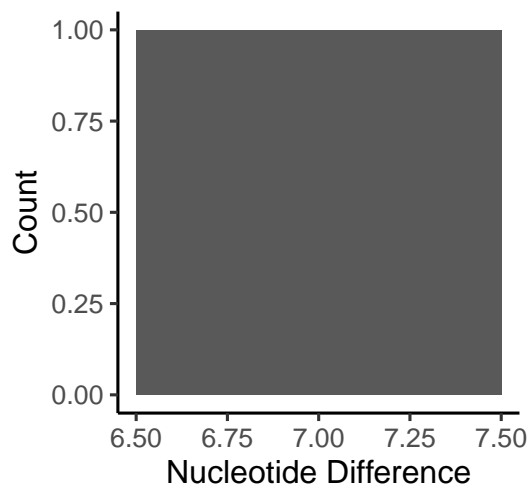
### TRBV18\*ap01

4209 sequences assigned  
4186 (99.5%) exact matches, in which:  
4130 unique CDR3  
13 unique J



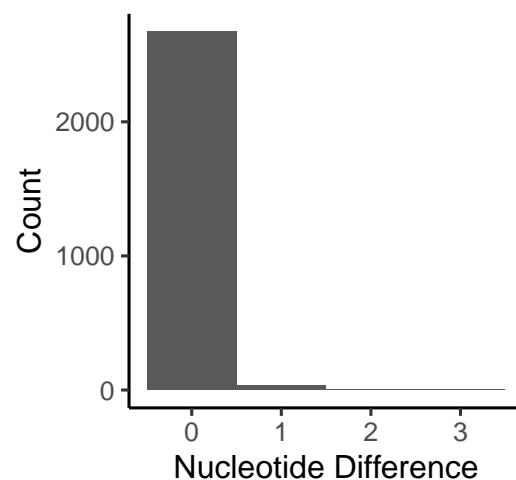
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



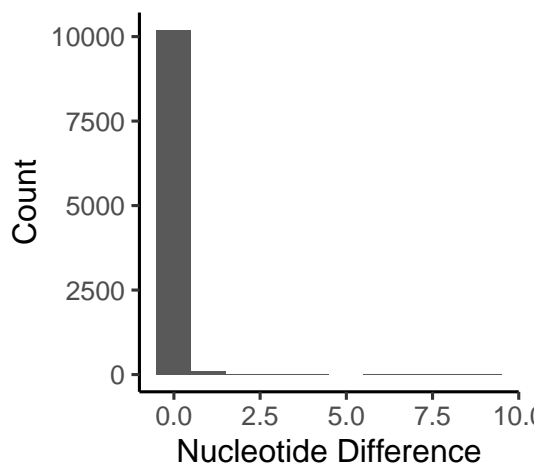
### TRBV30\*ap01

2708 sequences assigned  
2672 (98.7%) exact matches, in which:  
2618 unique CDR3  
13 unique J



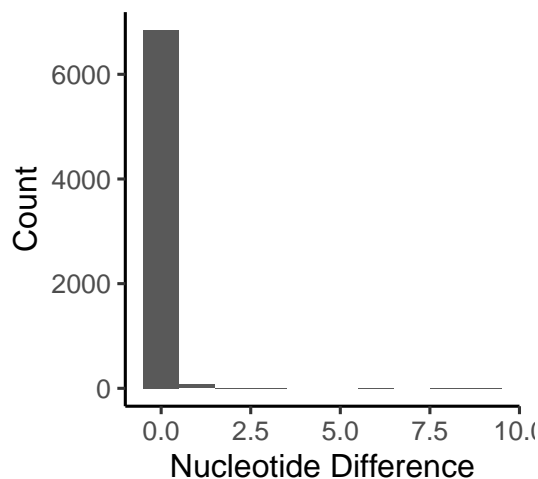
### TRBV19\*ap01

10320 sequences assigned  
10201 (98.8%) exact matches, in which:  
10087 unique CDR3  
13 unique J



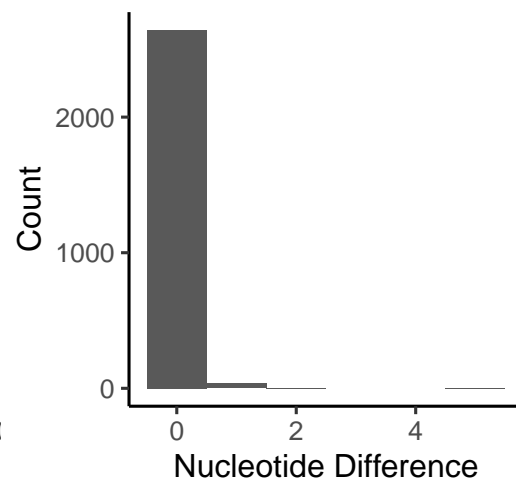
### TRBV27\*ap01

6930 sequences assigned  
6846 (98.8%) exact matches, in which:  
6670 unique CDR3  
13 unique J



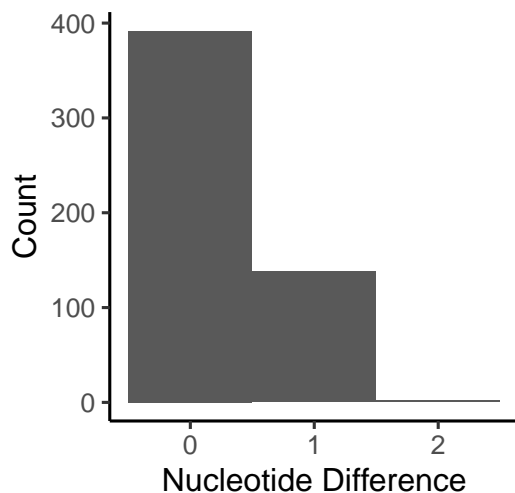
### TRBV30\*ap02

2679 sequences assigned  
2642 (98.6%) exact matches, in which:  
2593 unique CDR3  
13 unique J



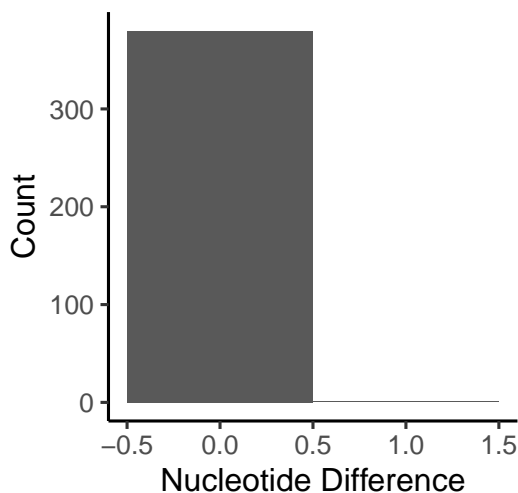
### TRBV30\*ap03

532 sequences assigned  
392 (73.7%) exact matches, in which:  
386 unique CDR3  
13 unique J



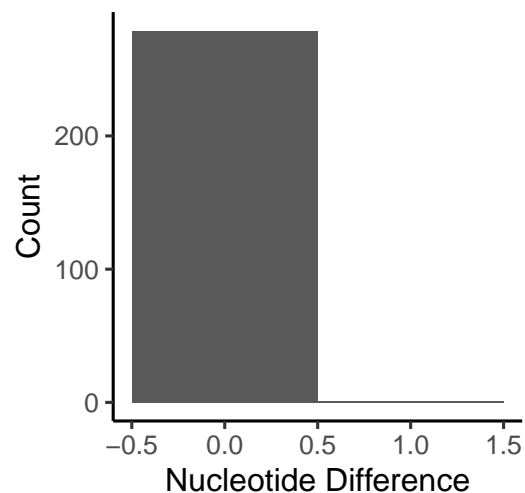
### TRBV11-1\*ap01

381 sequences assigned  
380 (99.7%) exact matches, in which:  
379 unique CDR3  
13 unique J



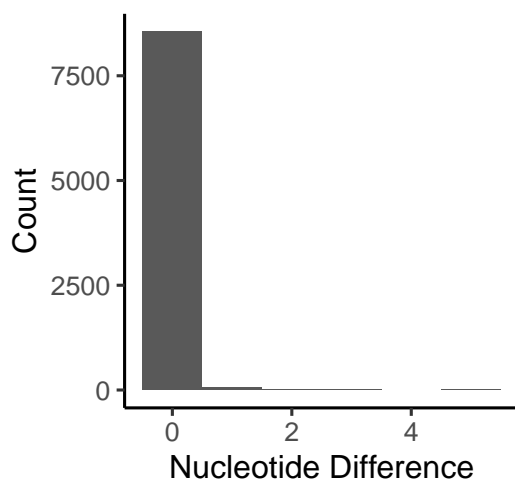
### TRBV12-1\*ap01

280 sequences assigned  
279 (99.6%) exact matches, in which:  
269 unique CDR3  
13 unique J



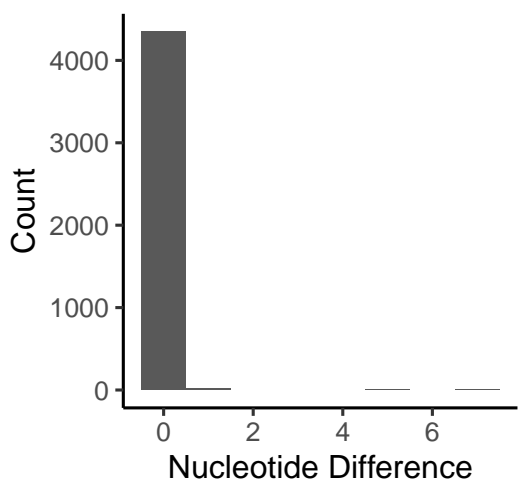
### TRBV9\*ap01

8625 sequences assigned  
8551 (99.1%) exact matches, in which:  
8420 unique CDR3  
13 unique J



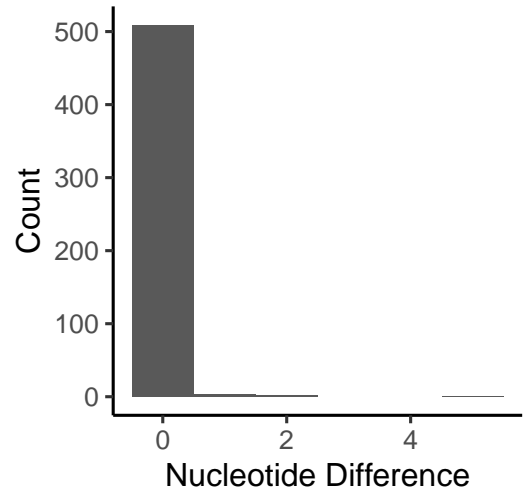
### TRBV11-2\*ap01

4366 sequences assigned  
4348 (99.6%) exact matches, in which:  
4296 unique CDR3  
13 unique J



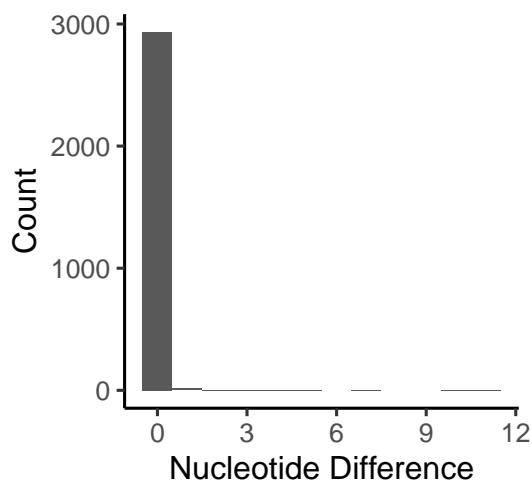
### TRBV12-2\*ap01

516 sequences assigned  
509 (98.6%) exact matches, in which:  
502 unique CDR3  
13 unique J



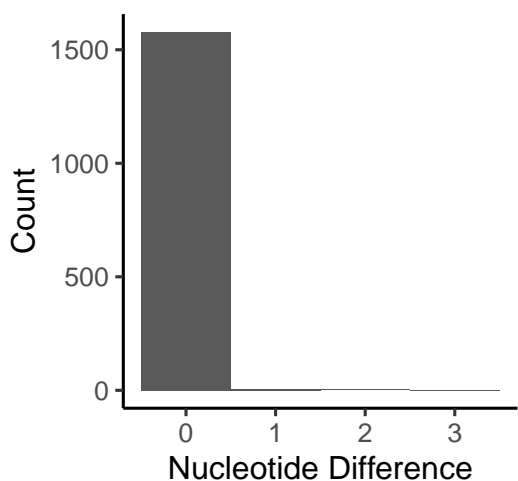
### TRBV21-1\*ap01

2962 sequences assigned  
2934 (99.1%) exact matches, in which:  
2901 unique CDR3  
13 unique J



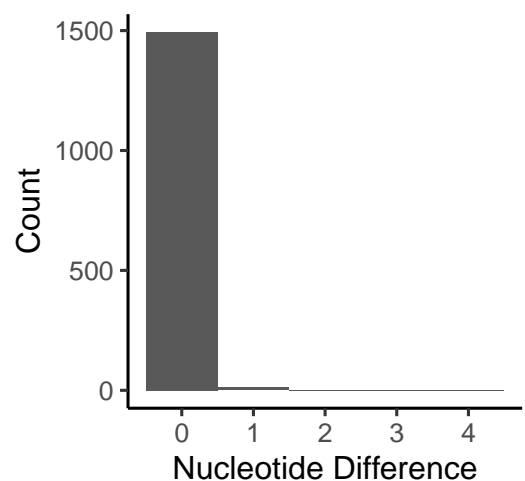
### TRBV11-3\*ap01

1589 sequences assigned  
1578 (99.3%) exact matches, in which:  
1569 unique CDR3  
13 unique J



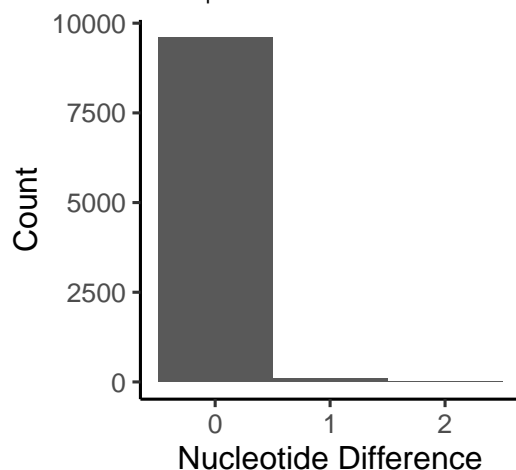
### TRBV12-5\*ap01

1508 sequences assigned  
1494 (99.1%) exact matches, in which:  
1468 unique CDR3  
13 unique J



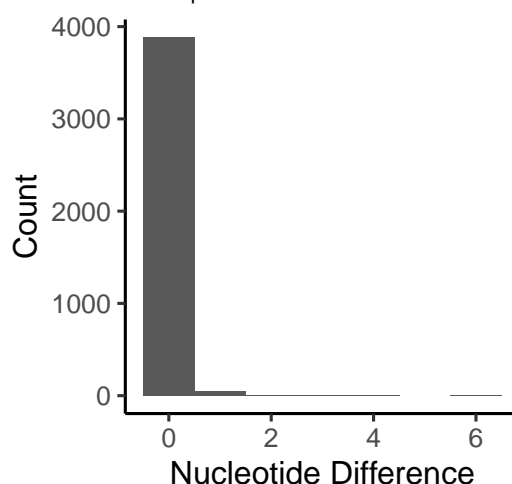
### TRBV12–34\*ap01

9707 sequences assigned  
9611 (99%) exact matches, in which:  
9408 unique CDR3  
13 unique J



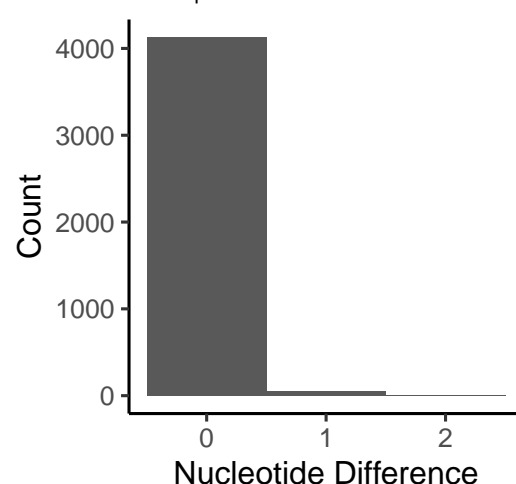
### TRBV24–1\*ap01

3933 sequences assigned  
3883 (98.7%) exact matches, in which:  
3816 unique CDR3  
13 unique J



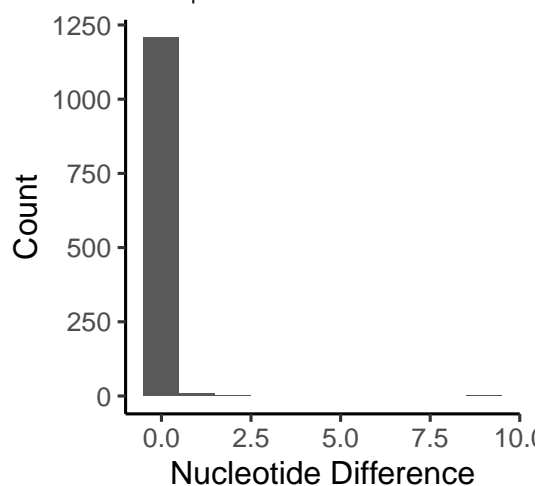
### TRBV4–3\*ap01

4182 sequences assigned  
4127 (98.7%) exact matches, in which:  
4031 unique CDR3  
13 unique J



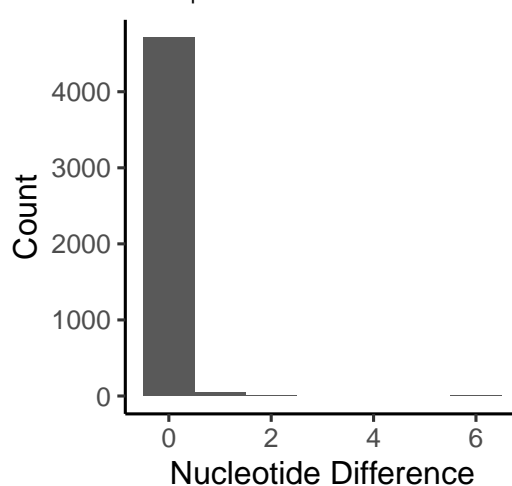
### TRBV23–1\*ap01

1218 sequences assigned  
1207 (99.1%) exact matches, in which:  
1183 unique CDR3  
13 unique J



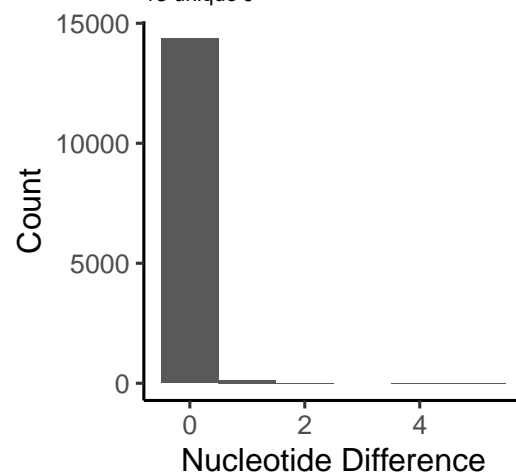
### TRBV4–1\*ap01

4759 sequences assigned  
4710 (99%) exact matches, in which:  
4592 unique CDR3  
13 unique J



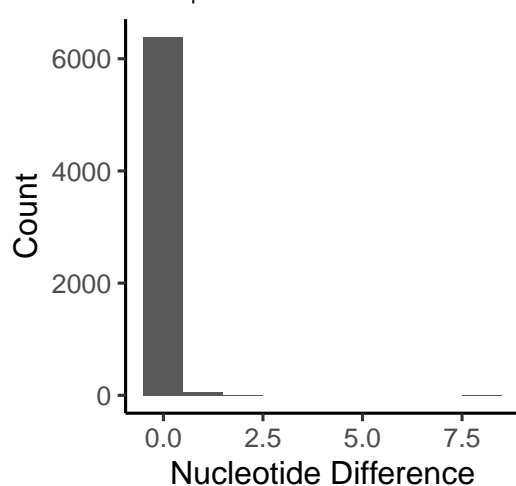
### TRBV5–1\*ap01

14504 sequences assigned  
14367 (99.1%) exact matches, in which:  
14039 unique CDR3  
13 unique J



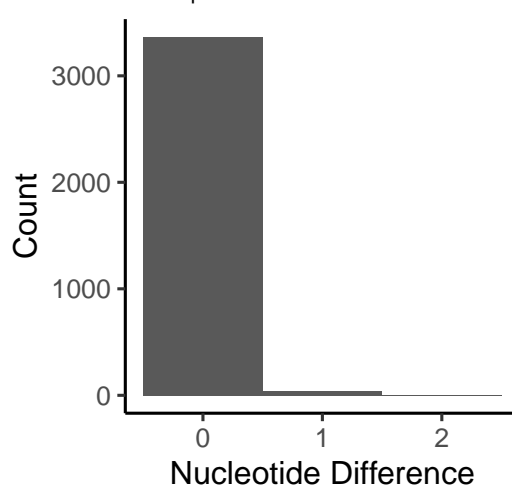
### TRBV3–12\*ap01

6448 sequences assigned  
6387 (99.1%) exact matches, in which:  
6319 unique CDR3  
13 unique J



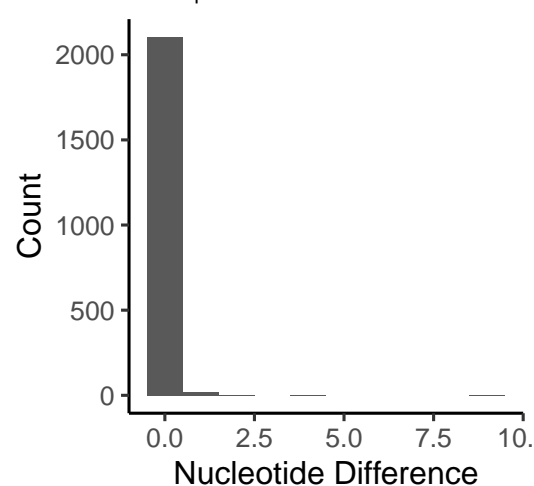
### TRBV4–2\*ap01

3406 sequences assigned  
3364 (98.8%) exact matches, in which:  
3283 unique CDR3  
13 unique J



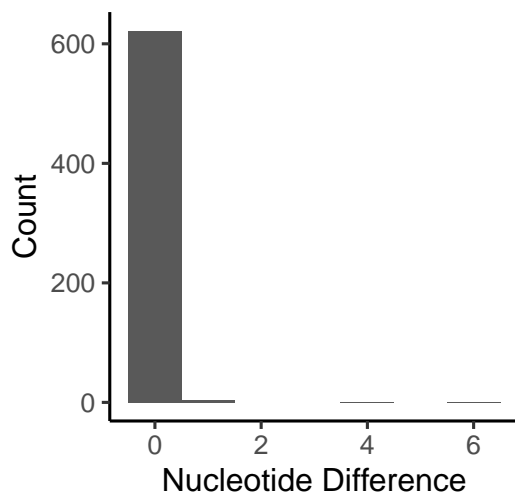
### TRBV25–1\*ap01

2128 sequences assigned  
2104 (98.9%) exact matches, in which:  
2060 unique CDR3  
13 unique J



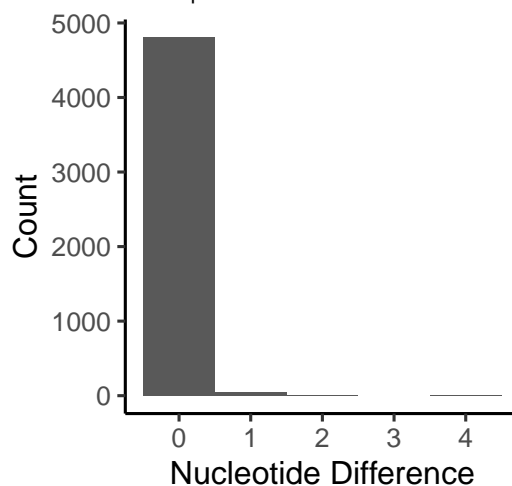
### TRBV5-3\*ap01

628 sequences assigned  
622 (99%) exact matches, in which:  
607 unique CDR3  
13 unique J



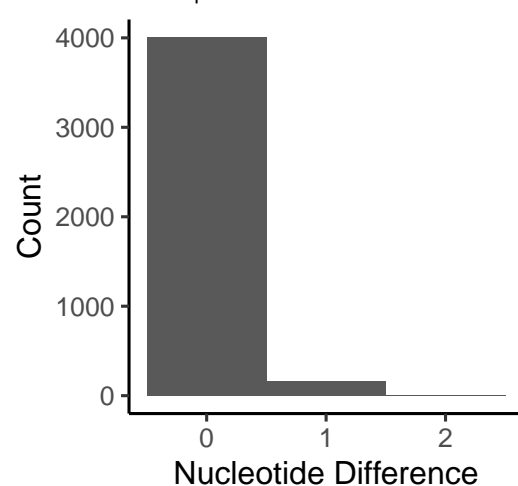
### TRBV5-6\*ap01

4858 sequences assigned  
4806 (98.9%) exact matches, in which:  
4643 unique CDR3  
13 unique J



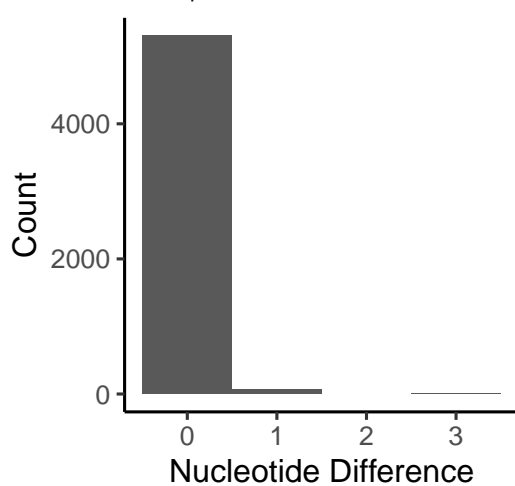
### TRBV6-1\*ap01

4170 sequences assigned  
4005 (96%) exact matches, in which:  
3890 unique CDR3  
13 unique J



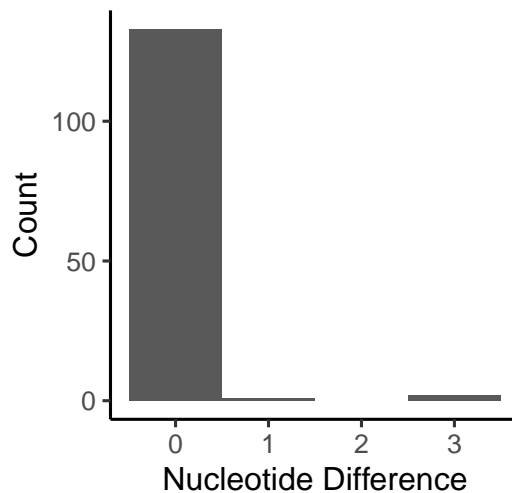
### TRBV5-4\*ap01

5377 sequences assigned  
5304 (98.6%) exact matches, in which:  
5183 unique CDR3  
13 unique J



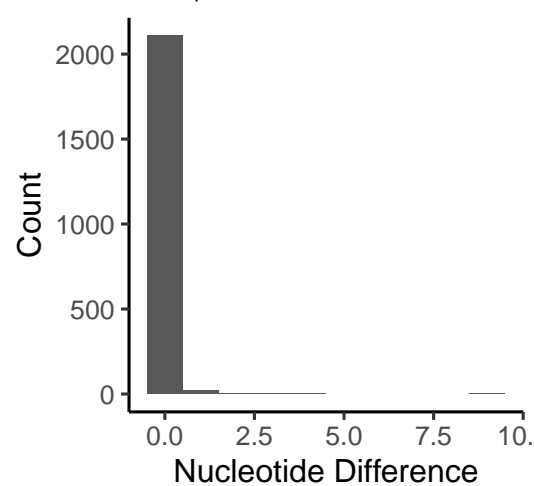
### TRBV5-7\*ap01

136 sequences assigned  
133 (97.8%) exact matches, in which:  
130 unique CDR3  
12 unique J



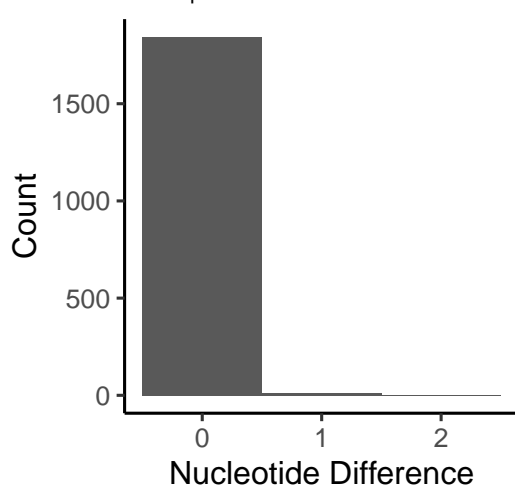
### TRBV6-4\*ap01

2133 sequences assigned  
2108 (98.8%) exact matches, in which:  
2075 unique CDR3  
13 unique J



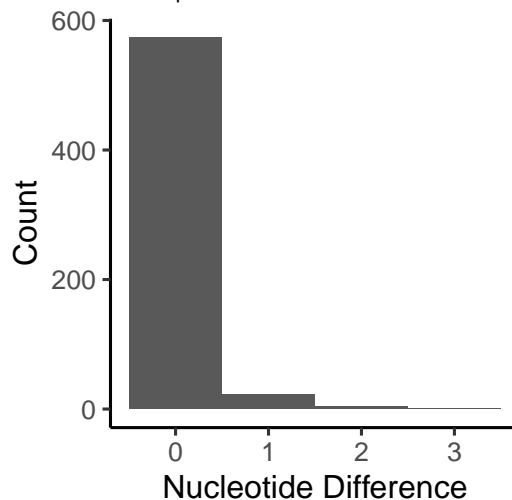
### TRBV5-5\*ap01

1855 sequences assigned  
1843 (99.4%) exact matches, in which:  
1821 unique CDR3  
13 unique J



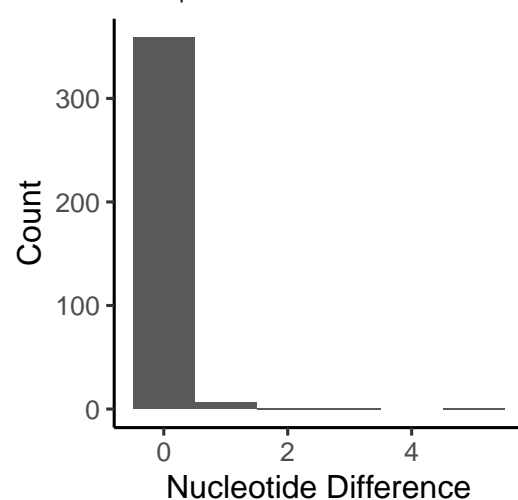
### TRBV5-8\*ap01

602 sequences assigned  
574 (95.3%) exact matches, in which:  
563 unique CDR3  
13 unique J



### TRBV6-7\*ap01

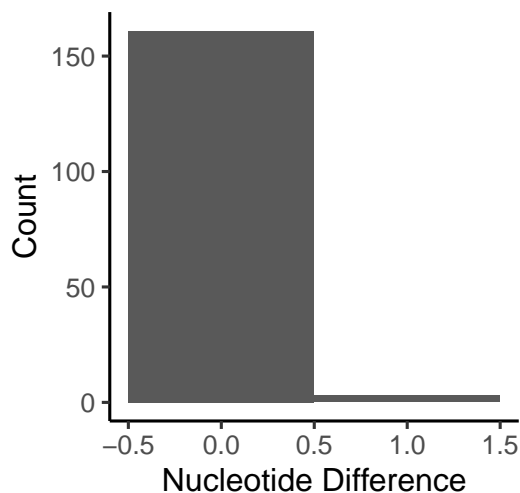
368 sequences assigned  
359 (97.6%) exact matches, in which:  
346 unique CDR3  
13 unique J





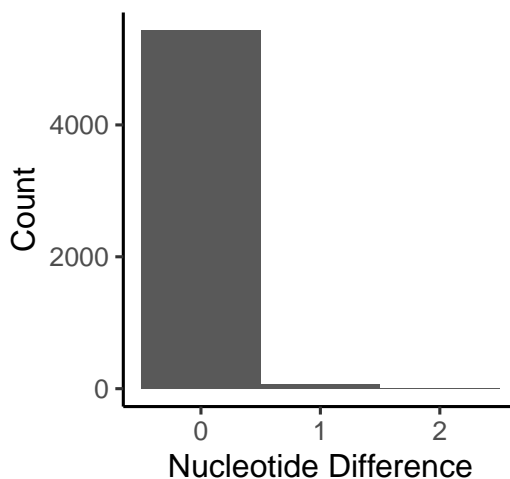
### TRBV6-8\*ap01

164 sequences assigned  
161 (98.2%) exact matches, in which:  
154 unique CDR3  
13 unique J



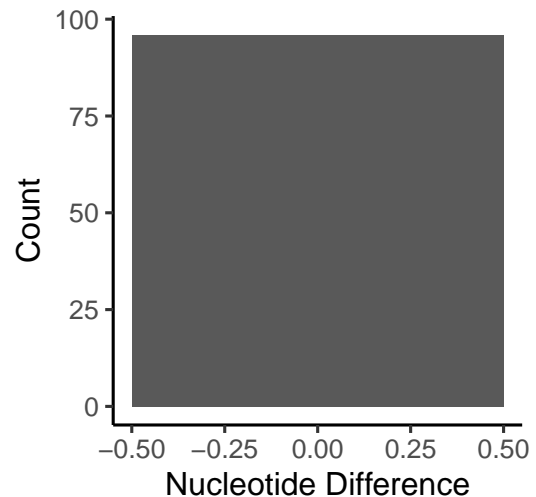
### TRBV6-56\*ap01

5509 sequences assigned  
5433 (98.6%) exact matches, in which:  
5310 unique CDR3  
13 unique J



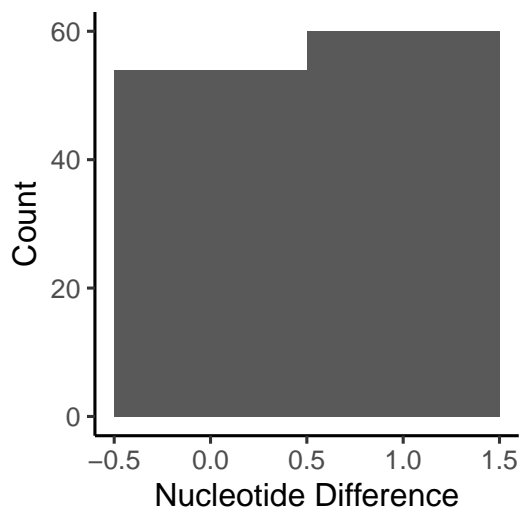
### TRBV7-1\*ap01\_G291C\_T

96 sequences assigned  
96 (100%) exact matches, in which:  
93 unique CDR3  
13 unique J



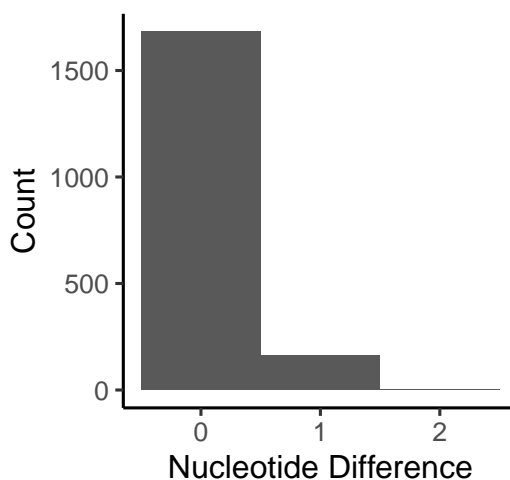
### TRBV6-9\*ap01

114 sequences assigned  
54 (47.4%) exact matches, in which:  
53 unique CDR3  
13 unique J



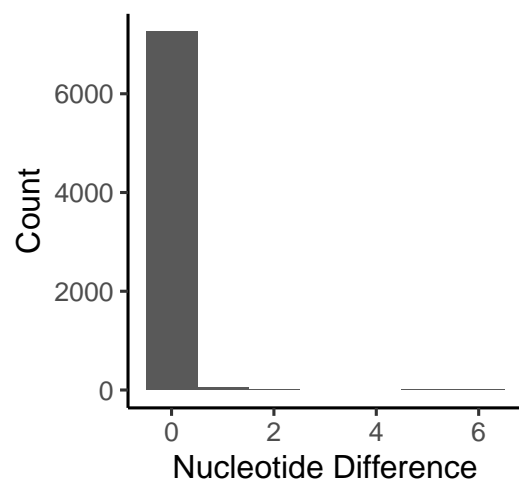
### TRBV6-56\*ap02

1845 sequences assigned  
1682 (91.2%) exact matches, in which:  
1644 unique CDR3  
13 unique J



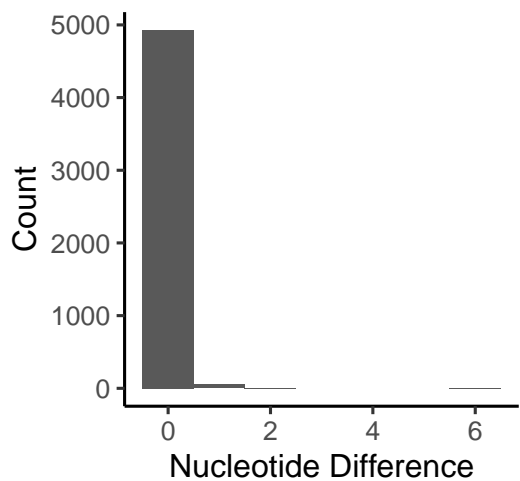
### TRBV7-2\*ap01

7315 sequences assigned  
7256 (99.2%) exact matches, in which:  
7131 unique CDR3  
13 unique J



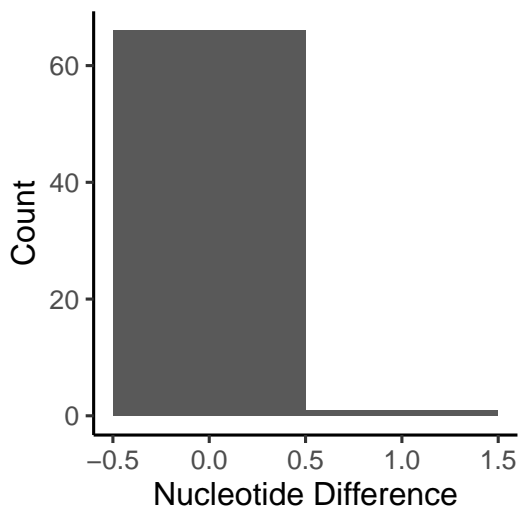
### TRBV6-23\*ap01

4984 sequences assigned  
4929 (98.9%) exact matches, in which:  
4805 unique CDR3  
13 unique J



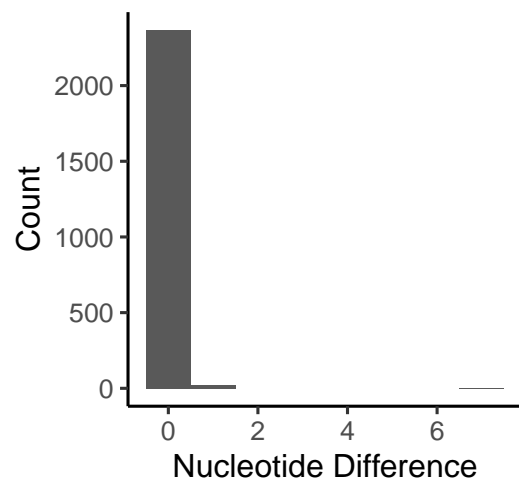
### TRBV7-1\*ap01\_G291C\_T

67 sequences assigned  
66 (98.5%) exact matches, in which:  
66 unique CDR3  
12 unique J



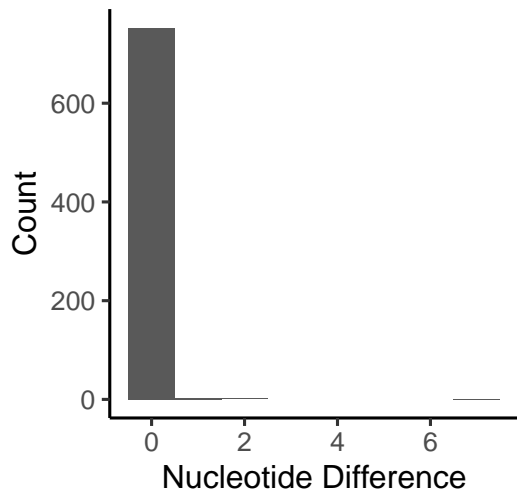
### TRBV7-3\*ap01

2389 sequences assigned  
2367 (99.1%) exact matches, in which:  
2336 unique CDR3  
13 unique J



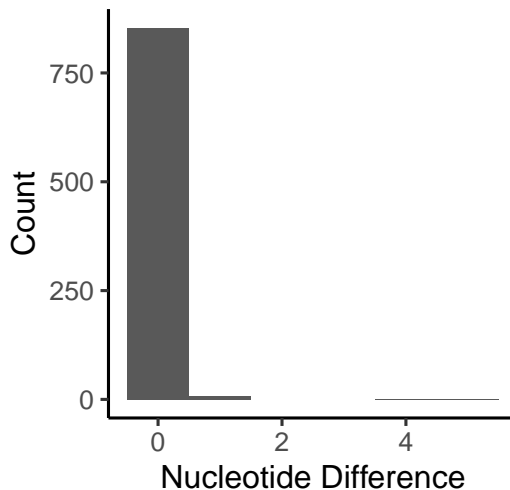
### TRBV7-3\*ap02

759 sequences assigned  
753 (99.2%) exact matches, in which:  
736 unique CDR3  
13 unique J



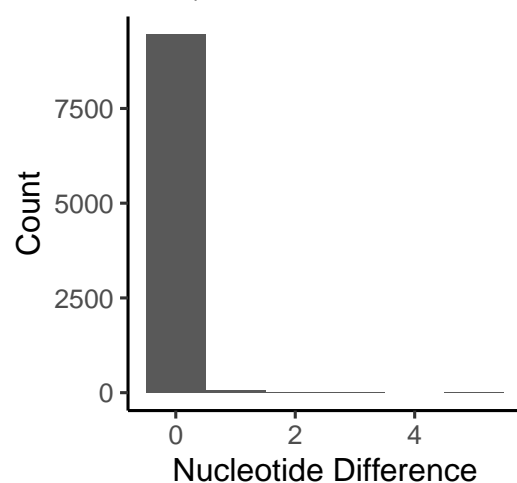
### TRBV7-7\*ap01

864 sequences assigned  
854 (98.8%) exact matches, in which:  
838 unique CDR3  
13 unique J



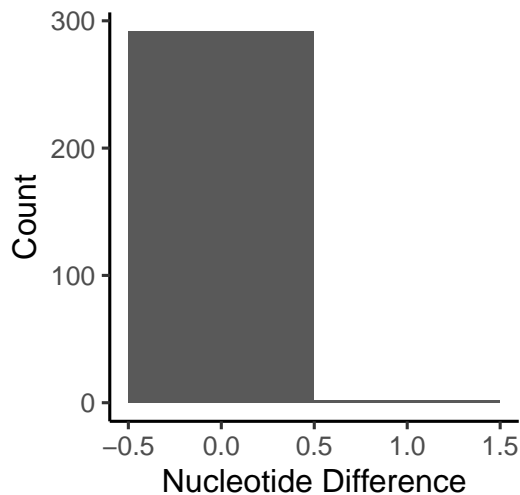
### TRBV7-9\*ap01

9534 sequences assigned  
9454 (99.2%) exact matches, in which:  
9279 unique CDR3  
13 unique J



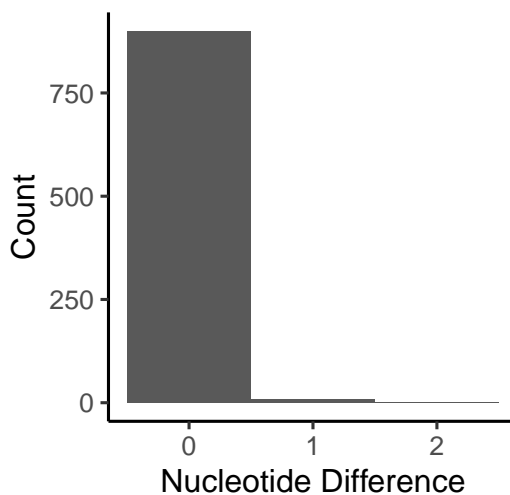
### TRBV7-4\*ap01

294 sequences assigned  
292 (99.3%) exact matches, in which:  
289 unique CDR3  
13 unique J



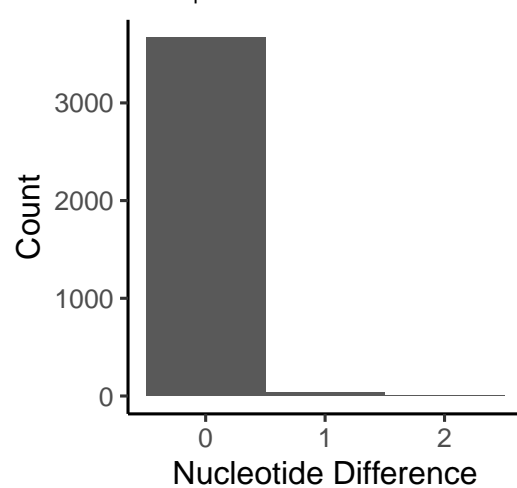
### TRBV7-8\*ap01

909 sequences assigned  
900 (99%) exact matches, in which:  
878 unique CDR3  
13 unique J



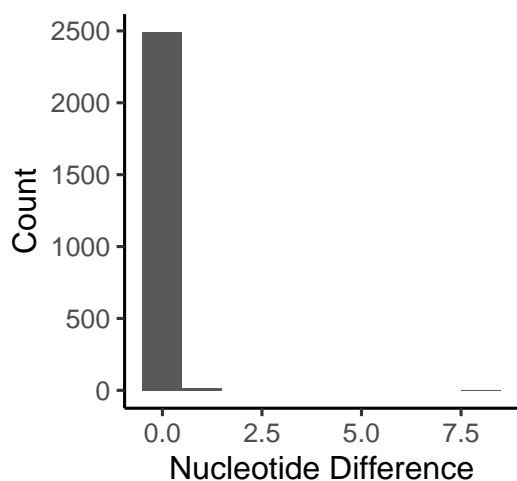
### TRBV29-1\*ap01

3707 sequences assigned  
3667 (98.9%) exact matches, in which:  
3581 unique CDR3  
13 unique J



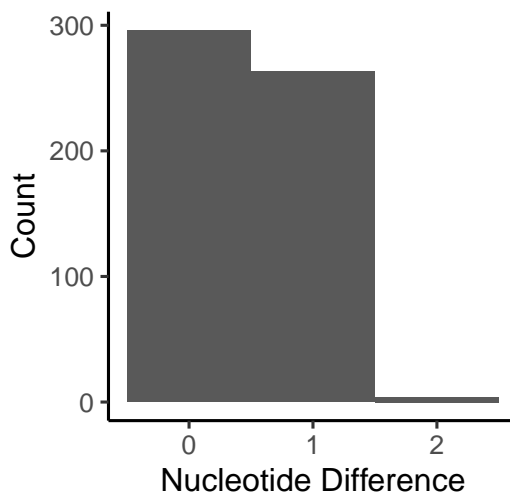
### TRBV7-6\*ap01

2510 sequences assigned  
2492 (99.3%) exact matches, in which:  
2436 unique CDR3  
13 unique J



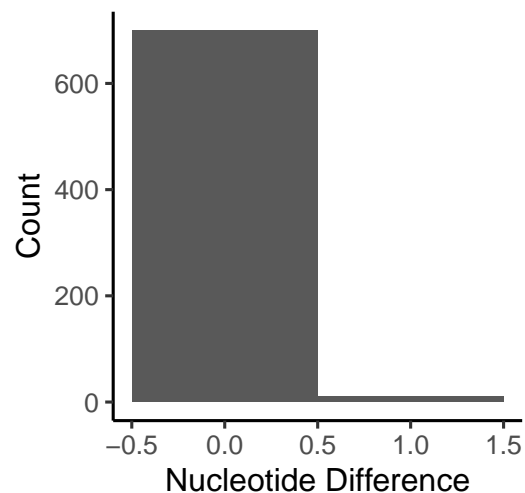
### TRBV7-8\*ap03

563 sequences assigned  
296 (52.6%) exact matches, in which:  
292 unique CDR3  
13 unique J

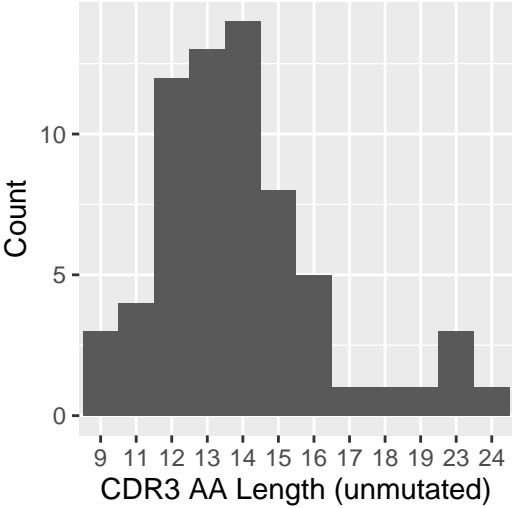


### TRBV29-1\*ap02

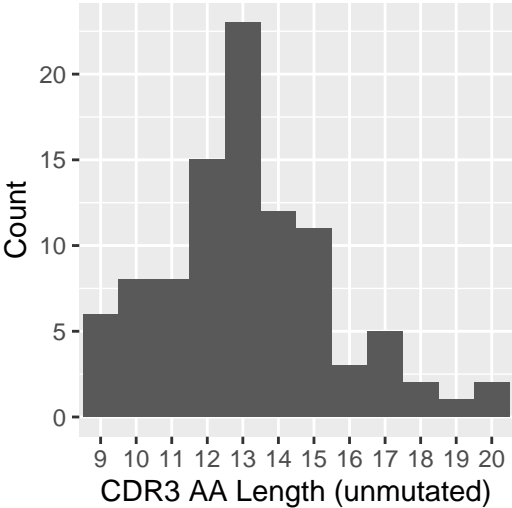
711 sequences assigned  
700 (98.5%) exact matches, in which:  
690 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



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





[illegible]