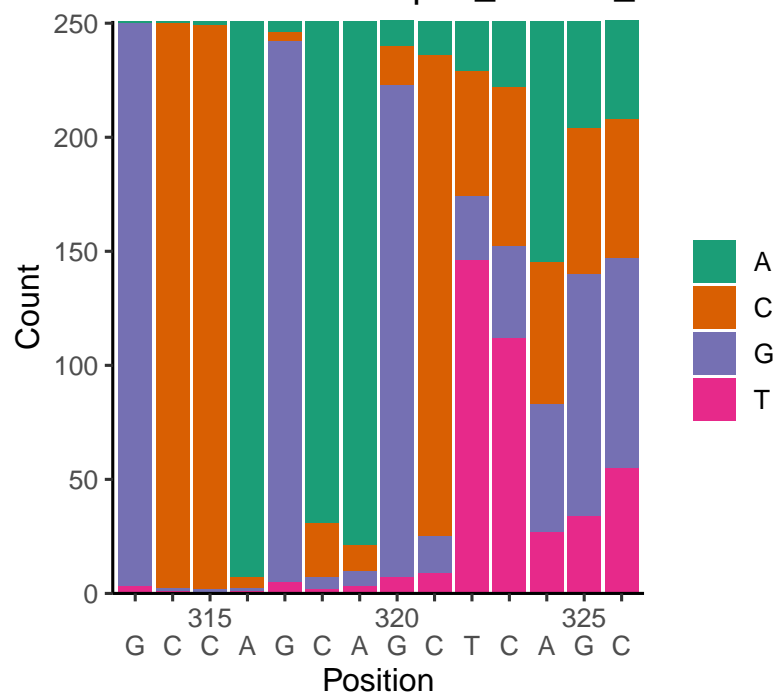
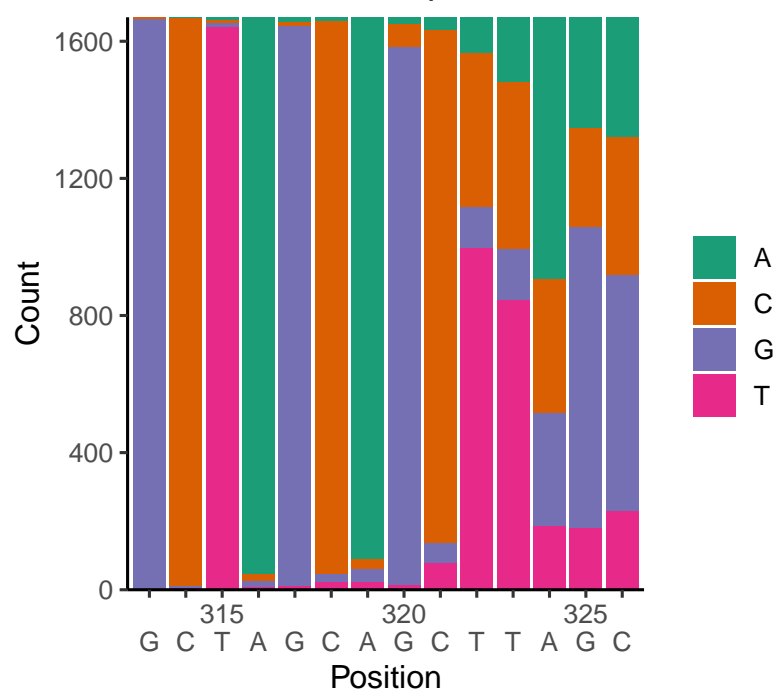


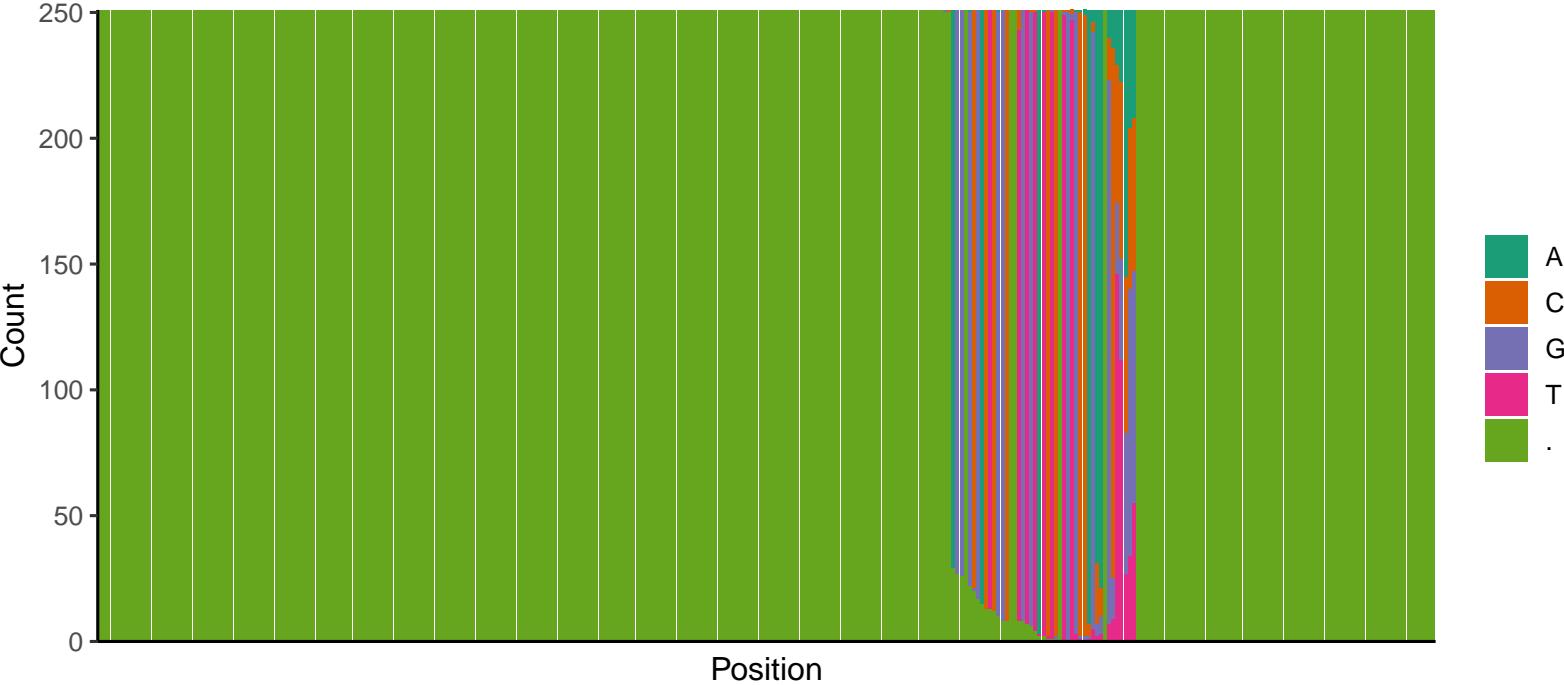
Gene TRBV7-1\*ap01\_G291C\_T296C



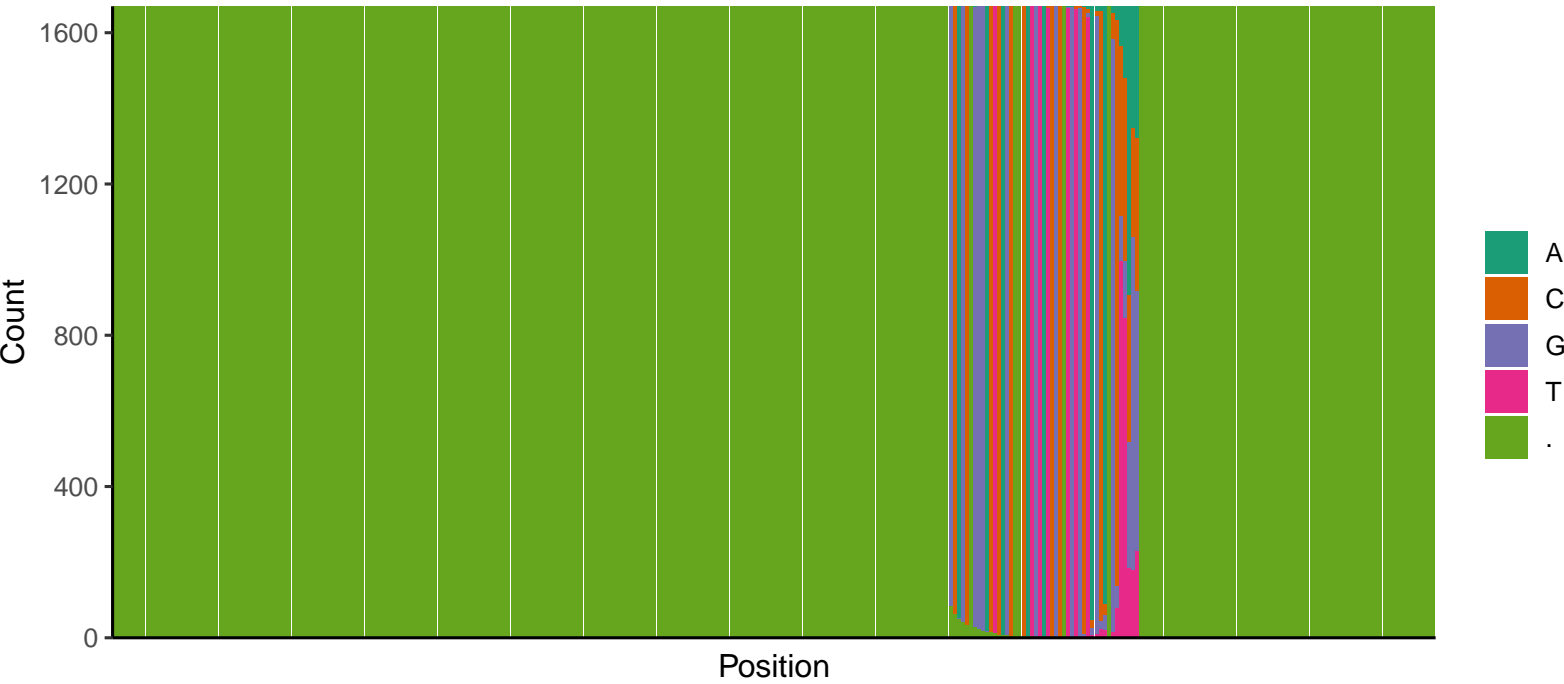
Gene TRBV7-7\*ap01\_C315T



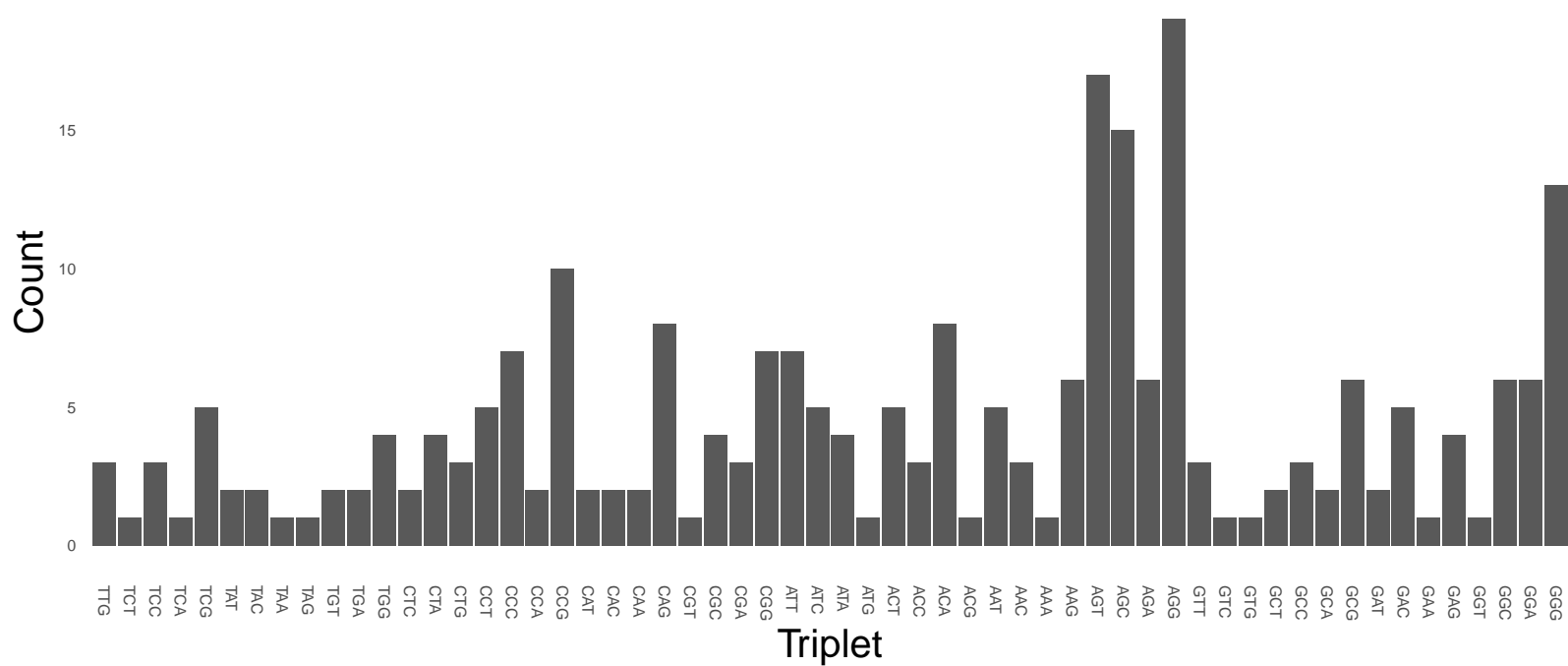
Gene TRBV7-1\*ap01\_G291C\_T296C



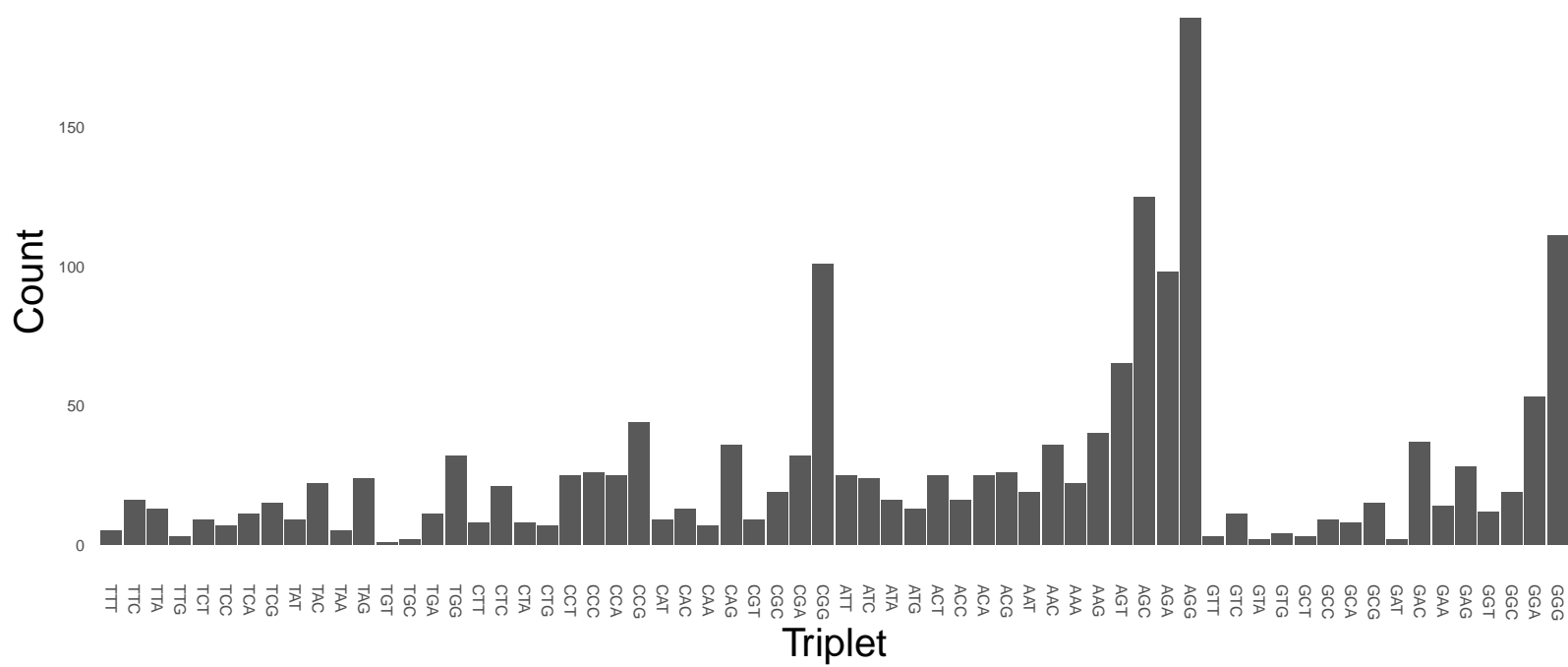
Gene TRBV7-7\*ap01\_C315T



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

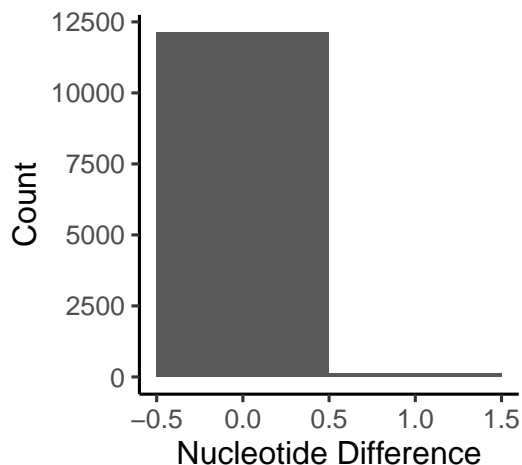


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



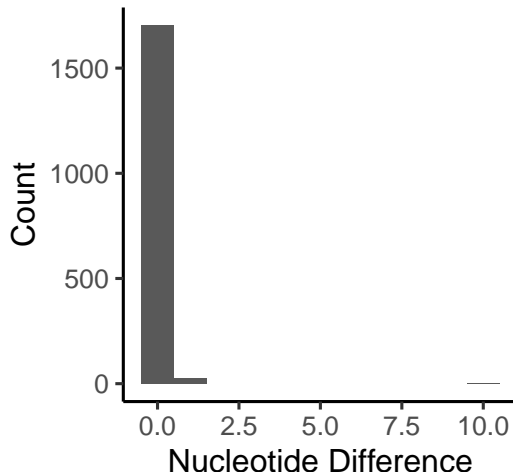
### TRBV20-1\*ap01

12272 sequences assigned  
12139 (98.9%) exact matches, in which:  
11885 unique CDR3  
13 unique J



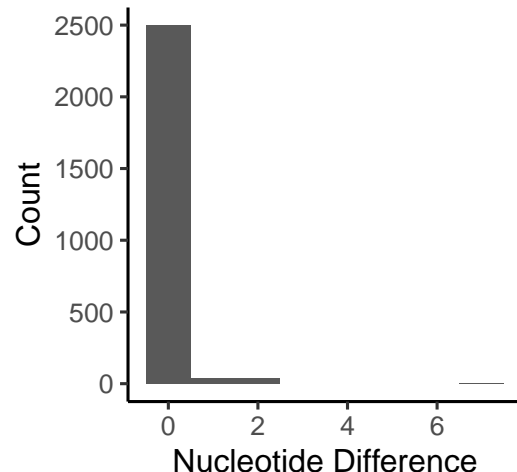
### TRBV10-2\*ap01

1730 sequences assigned  
1703 (98.4%) exact matches, in which:  
1669 unique CDR3  
13 unique J



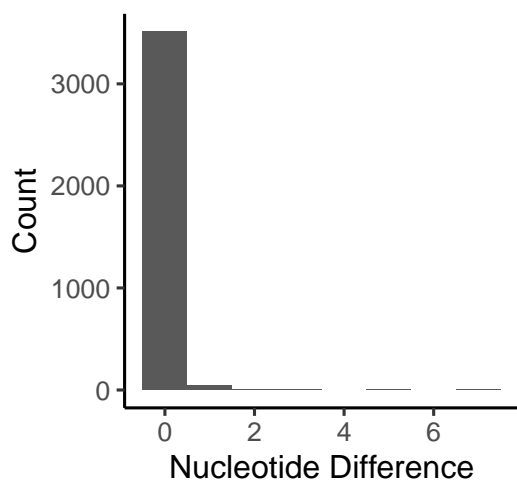
### TRBV13\*ap01

2575 sequences assigned  
2498 (97%) exact matches, in which:  
2426 unique CDR3  
13 unique J



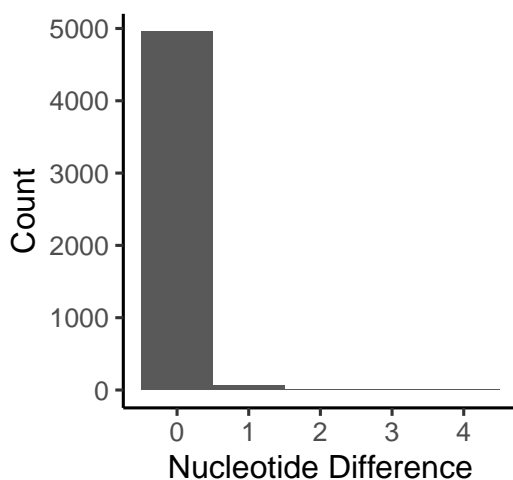
### TRBV10-1\*ap01

3558 sequences assigned  
3511 (98.7%) exact matches, in which:  
3435 unique CDR3  
13 unique J



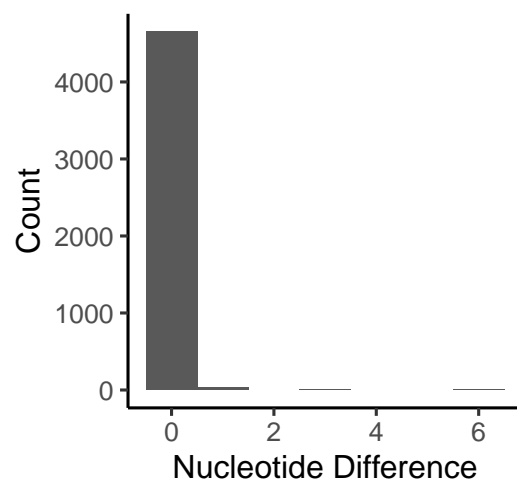
### TRBV10-3\*ap01

5018 sequences assigned  
4955 (98.7%) exact matches, in which:  
4843 unique CDR3  
13 unique J



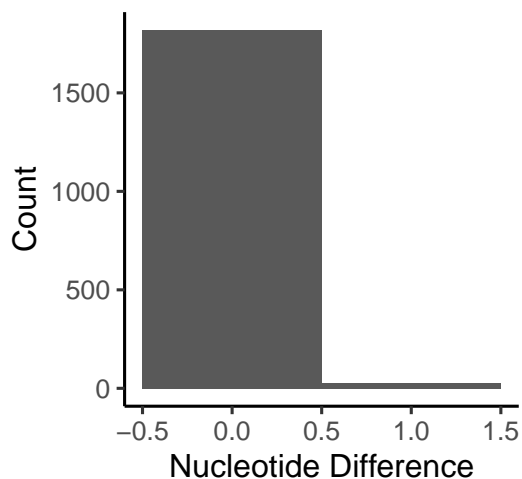
### TRBV14\*ap01

4691 sequences assigned  
4652 (99.2%) exact matches, in which:  
4568 unique CDR3  
13 unique J



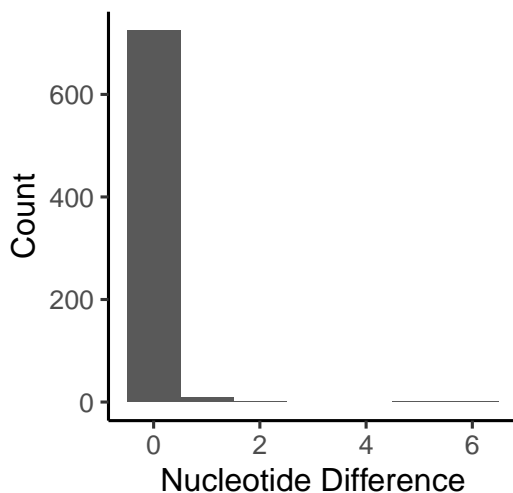
### TRBV20-1\*ap02

1847 sequences assigned  
1819 (98.5%) exact matches, in which:  
1776 unique CDR3  
13 unique J



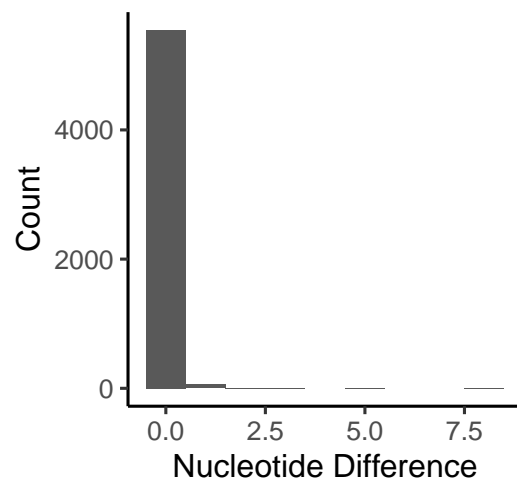
### TRBV1\*ap01

737 sequences assigned  
725 (98.4%) exact matches, in which:  
706 unique CDR3  
13 unique J



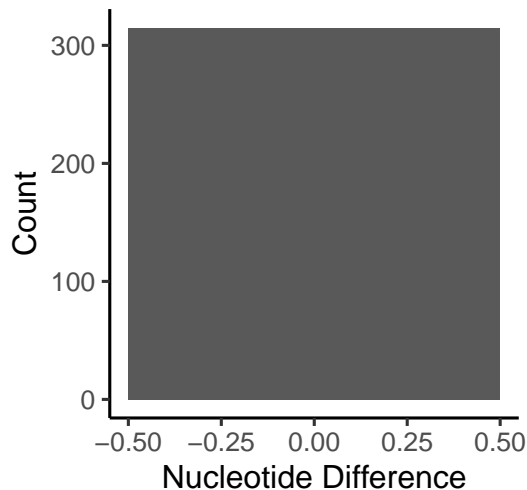
### TRBV15\*ap02

5612 sequences assigned  
5546 (98.8%) exact matches, in which:  
5437 unique CDR3  
14 unique J



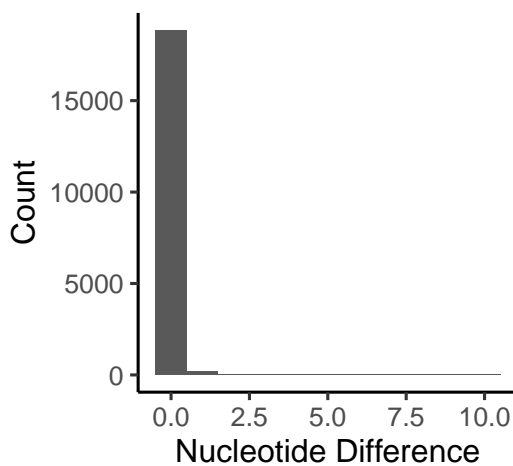
### TRBV16\*ap01

315 sequences assigned  
315 (100%) exact matches, in which:  
314 unique CDR3  
13 unique J



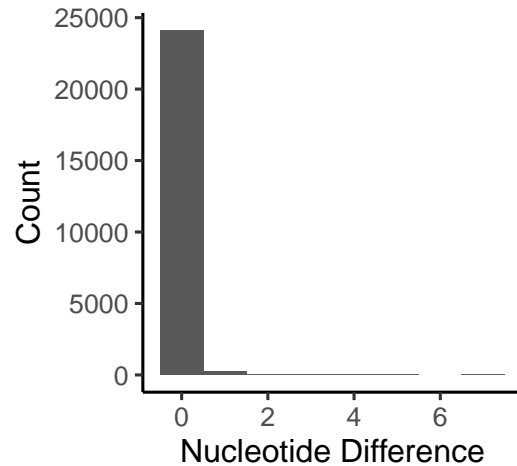
### TRBV19\*ap01

19072 sequences assigned  
18855 (98.9%) exact matches, in which:  
18635 unique CDR3  
13 unique J



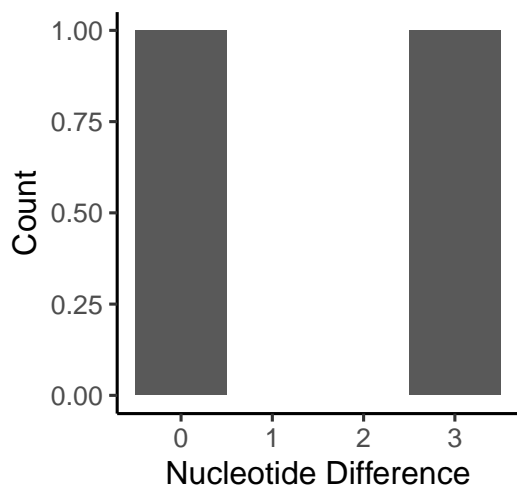
### TRBV28\*ap01

24363 sequences assigned  
24125 (99%) exact matches, in which:  
23681 unique CDR3  
13 unique J



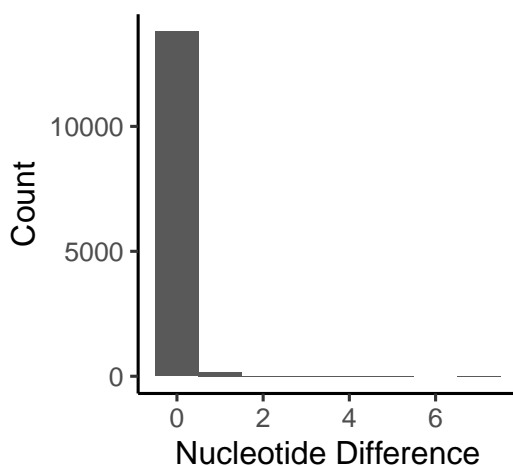
### TRBV17\*ap01

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



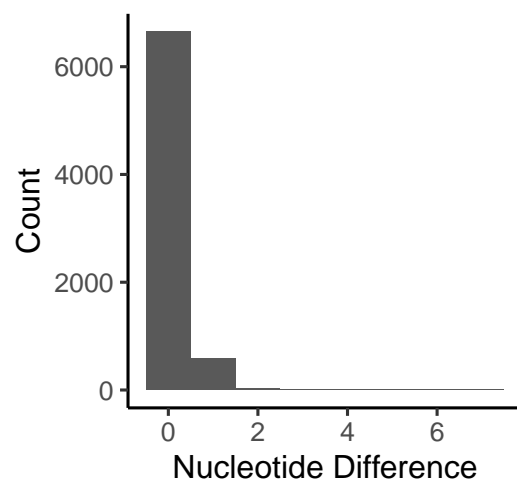
### TRBV2\*ap01

13970 sequences assigned  
13798 (98.8%) exact matches, in which:  
13509 unique CDR3  
13 unique J



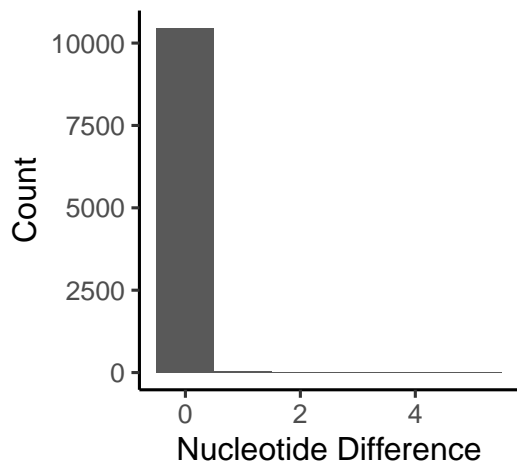
### TRBV30\*ap01

7277 sequences assigned  
6649 (91.4%) exact matches, in which:  
6547 unique CDR3  
13 unique J



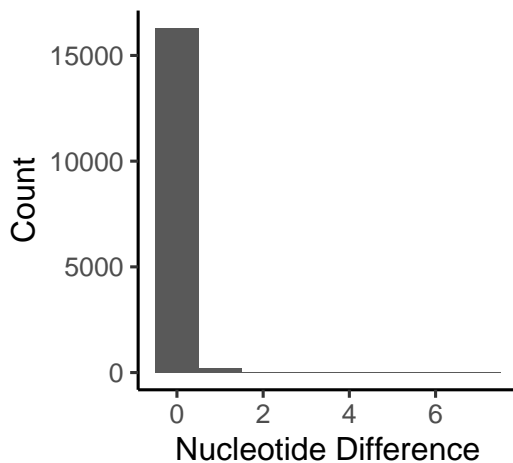
### TRBV18\*ap01

10520 sequences assigned  
10464 (99.5%) exact matches, in which:  
10329 unique CDR3  
13 unique J



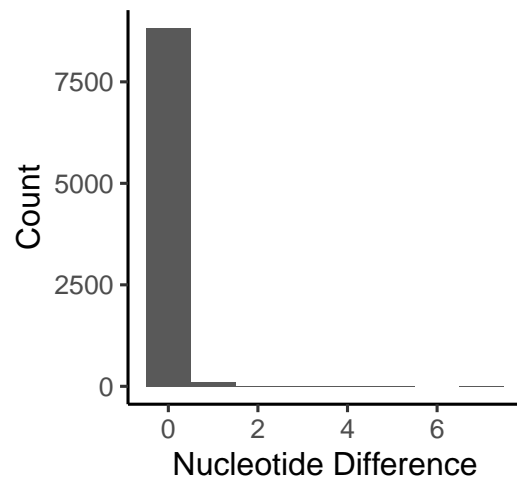
### TRBV27\*ap01

16526 sequences assigned  
16308 (98.7%) exact matches, in which:  
15861 unique CDR3  
13 unique J



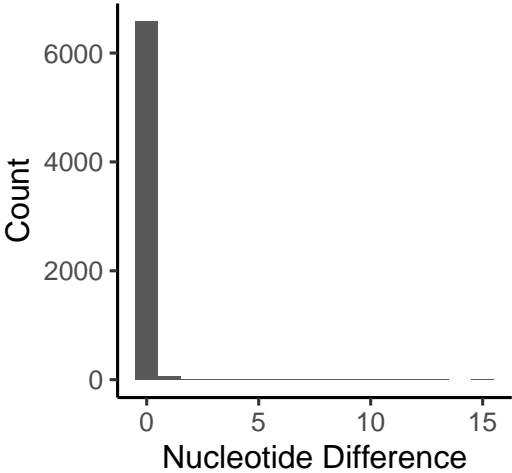
### TRBV9\*ap01

8950 sequences assigned  
8825 (98.6%) exact matches, in which:  
8682 unique CDR3  
13 unique J



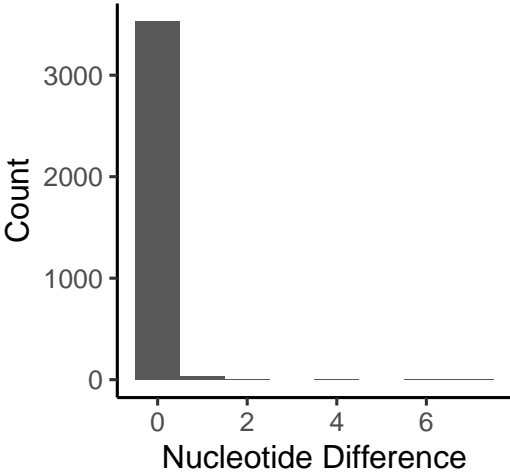
TRBV21-1\*ap01

6689 sequences assigned  
6581 (98.4%) exact matches, in which:  
6479 unique CDR3  
13 unique J



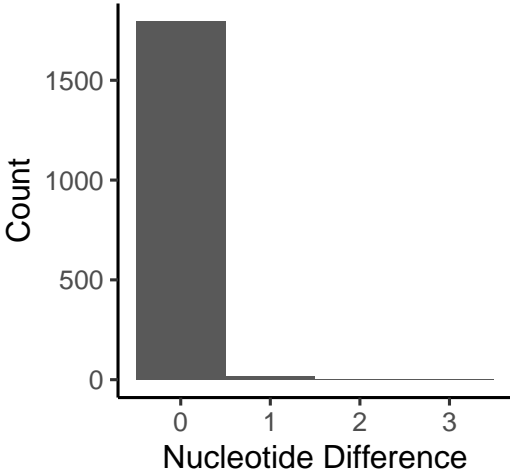
TRBV11-3\*ap01

3571 sequences assigned  
3530 (98.9%) exact matches, in which:  
3475 unique CDR3  
13 unique J



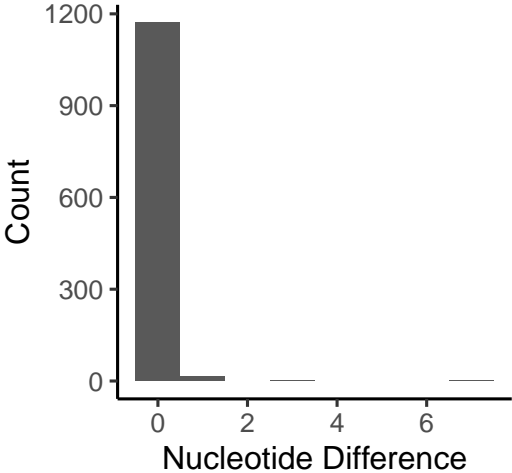
TRBV12-5\*ap01

1814 sequences assigned  
1795 (99%) exact matches, in which:  
1765 unique CDR3  
13 unique J



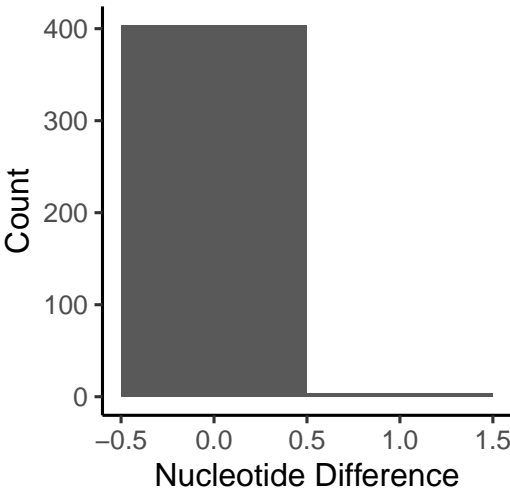
TRBV11-1\*ap01

1189 sequences assigned  
1171 (98.5%) exact matches, in which:  
1149 unique CDR3  
13 unique J



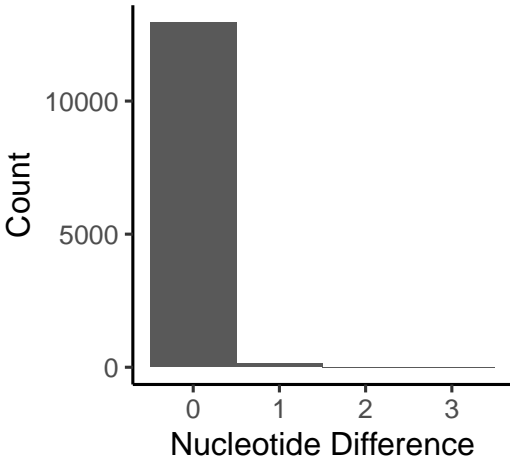
TRBV12-1\*ap01

408 sequences assigned  
404 (99%) exact matches, in which:  
395 unique CDR3  
13 unique J



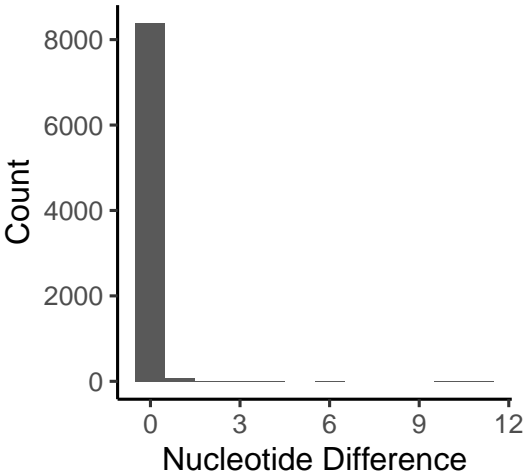
TRBV12-34\*ap01

13102 sequences assigned  
12953 (98.9%) exact matches, in which:  
12704 unique CDR3  
13 unique J



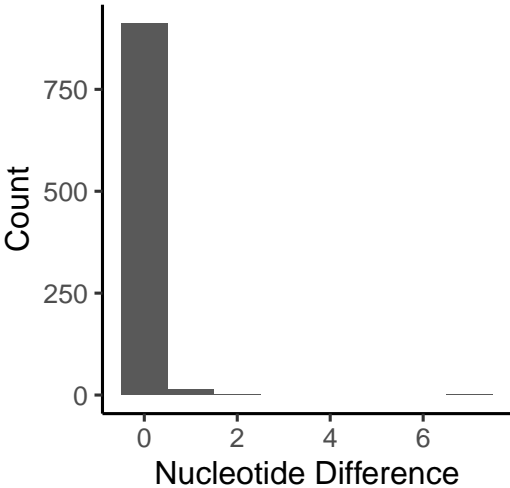
TRBV11-2\*ap01

8473 sequences assigned  
8388 (99%) exact matches, in which:  
8201 unique CDR3  
13 unique J



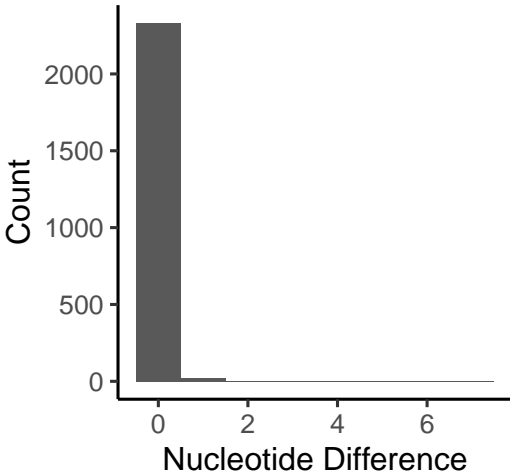
TRBV12-2\*ap01

929 sequences assigned  
912 (98.2%) exact matches, in which:  
902 unique CDR3  
13 unique J



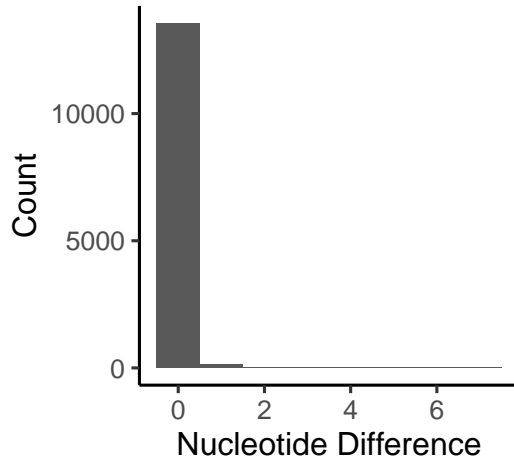
TRBV23-1\*ap01

2364 sequences assigned  
2331 (98.6%) exact matches, in which:  
2287 unique CDR3  
13 unique J



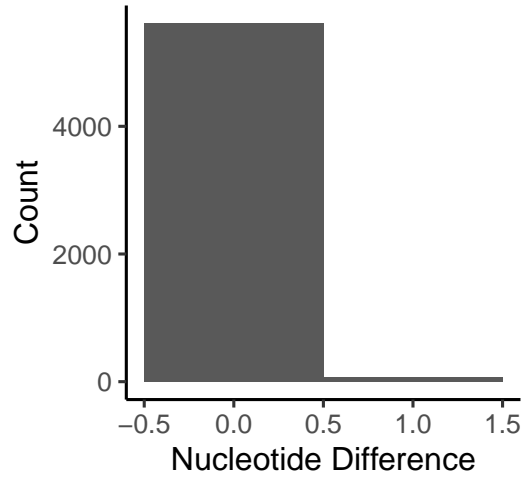
### TRBV3–12\*ap01

13724 sequences assigned  
13555 (98.8%) exact matches, in which:  
13282 unique CDR3  
13 unique J



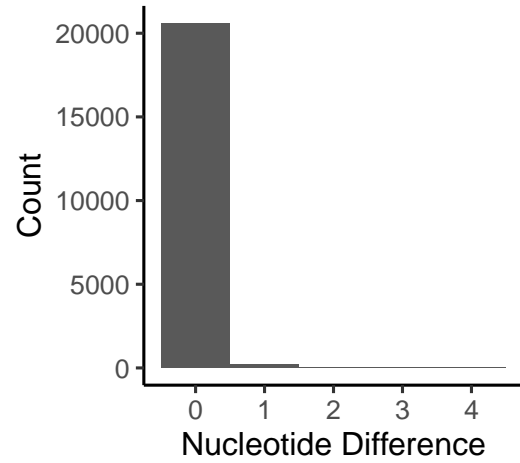
### TRBV4–2\*ap01

5689 sequences assigned  
5612 (98.6%) exact matches, in which:  
5499 unique CDR3  
13 unique J



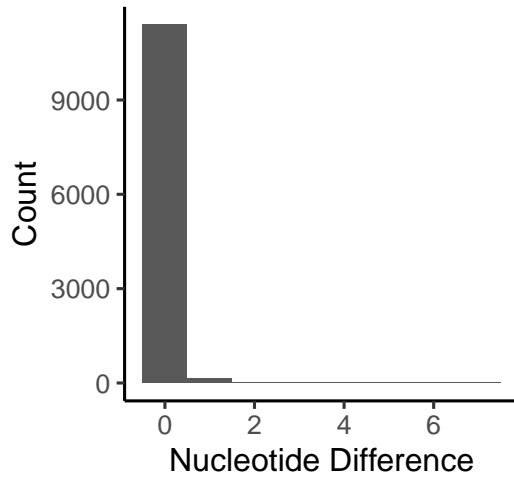
### TRBV5–1\*ap01

20830 sequences assigned  
20602 (98.9%) exact matches, in which:  
20096 unique CDR3  
13 unique J



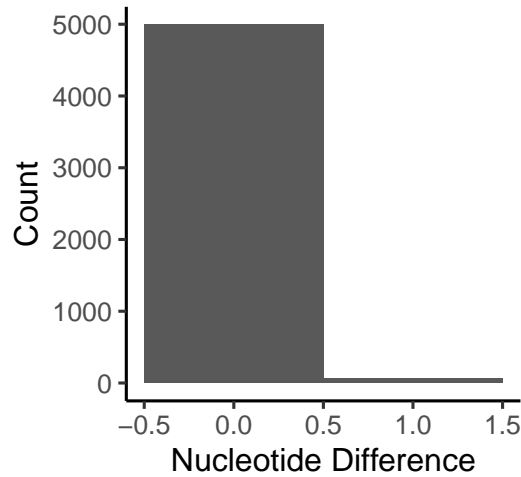
### TRBV24–1\*ap01

11559 sequences assigned  
11393 (98.6%) exact matches, in which:  
11201 unique CDR3  
13 unique J



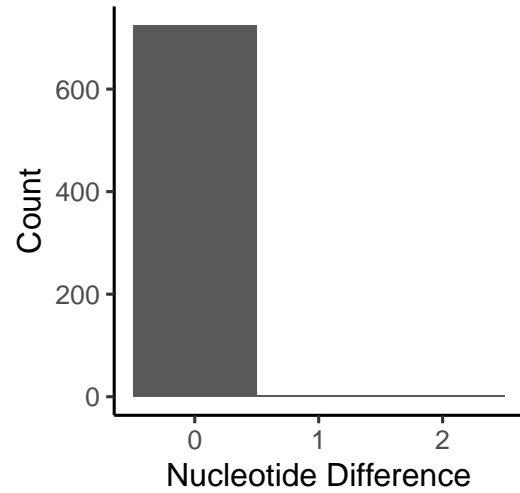
### TRBV4–3\*ap01

5056 sequences assigned  
4993 (98.8%) exact matches, in which:  
4906 unique CDR3  
13 unique J



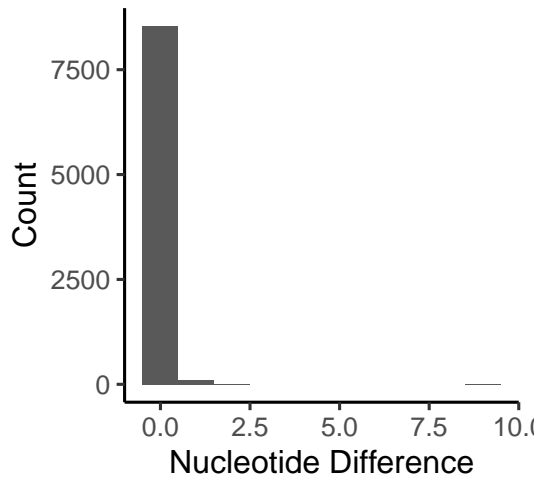
### TRBV5–3\*ap01

730 sequences assigned  
725 (99.3%) exact matches, in which:  
717 unique CDR3  
13 unique J



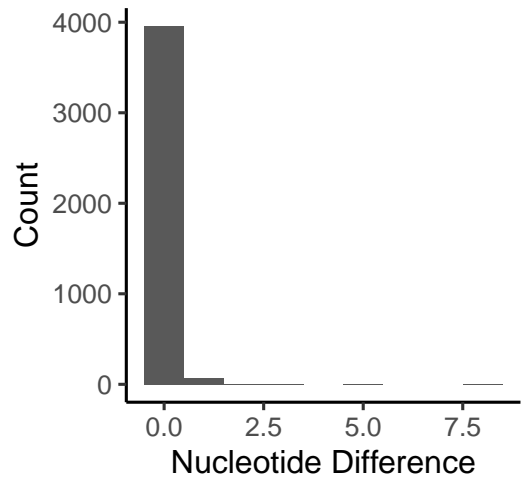
### TRBV4–1\*ap01

8642 sequences assigned  
8540 (98.8%) exact matches, in which:  
8372 unique CDR3  
13 unique J



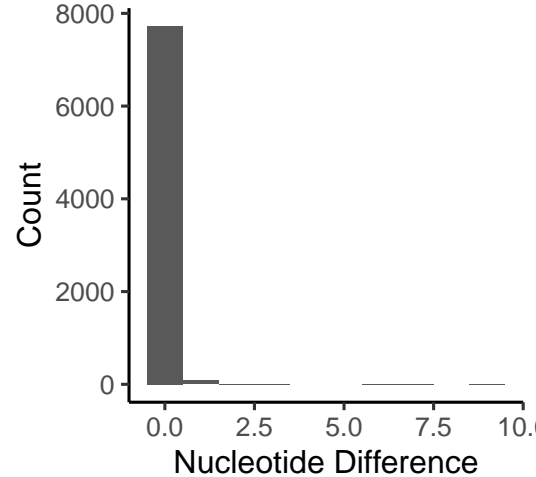
### TRBV25–1\*ap01

4034 sequences assigned  
3958 (98.1%) exact matches, in which:  
3875 unique CDR3  
13 unique J



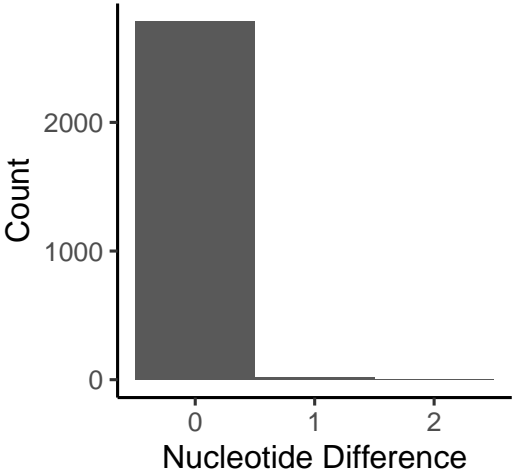
### TRBV5–4\*ap01

7817 sequences assigned  
7726 (98.8%) exact matches, in which:  
7550 unique CDR3  
14 unique J



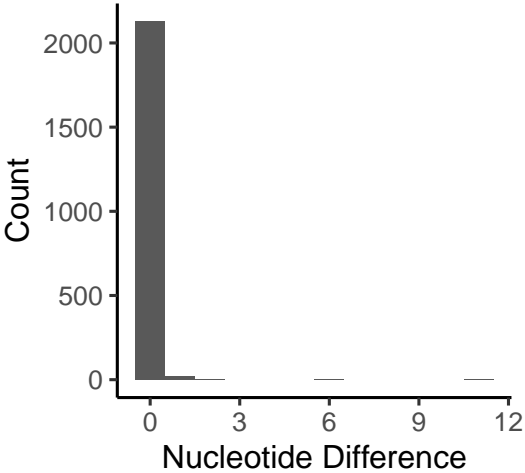
TRBV5-5\*ap01

2804 sequences assigned  
2785 (99.3%) exact matches, in which:  
2759 unique CDR3  
13 unique J



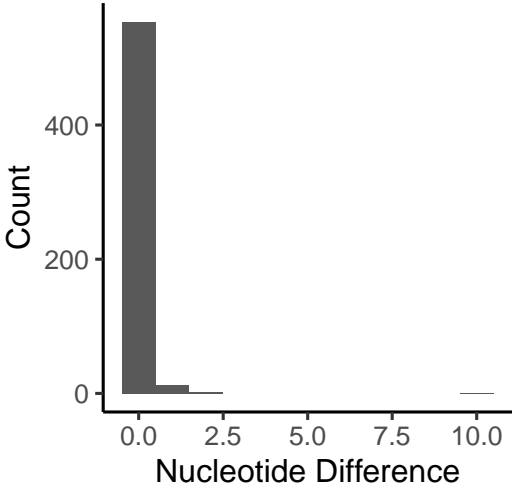
TRBV5-8\*ap01

2153 sequences assigned  
2128 (98.8%) exact matches, in which:  
2100 unique CDR3  
13 unique J



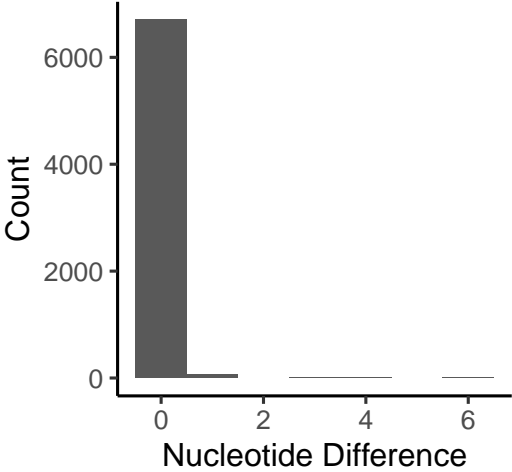
TRBV6-7\*ap01

570 sequences assigned  
554 (97.2%) exact matches, in which:  
536 unique CDR3  
13 unique J



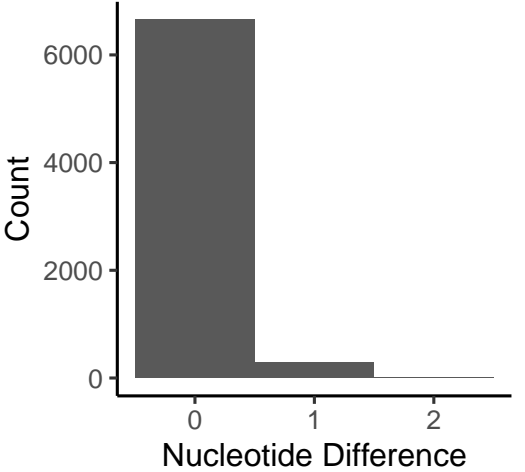
TRBV5-6\*ap01

6768 sequences assigned  
6704 (99.1%) exact matches, in which:  
6517 unique CDR3  
13 unique J



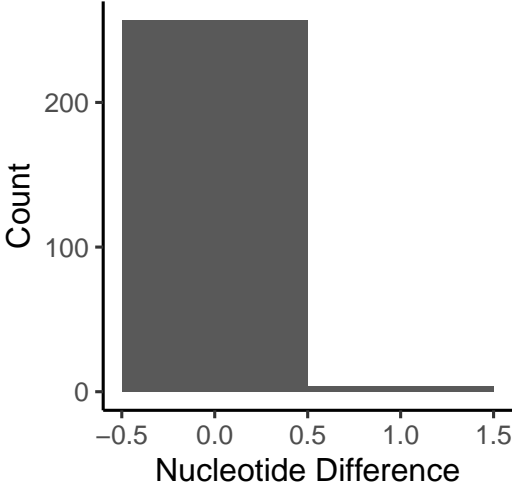
TRBV6-1\*ap01

6946 sequences assigned  
6653 (95.8%) exact matches, in which:  
6477 unique CDR3  
13 unique J



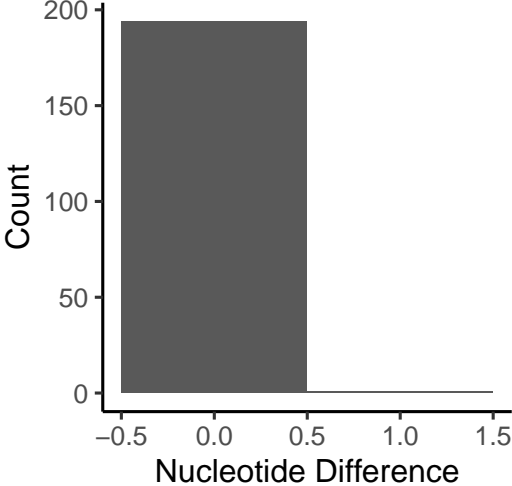
TRBV6-8\*ap01

261 sequences assigned  
257 (98.5%) exact matches, in which:  
251 unique CDR3  
13 unique J



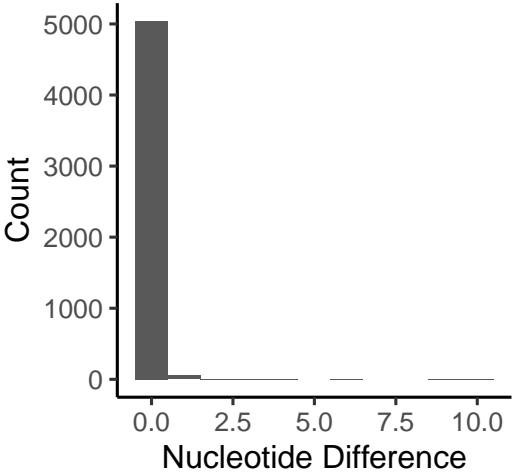
TRBV5-7\*ap01

195 sequences assigned  
194 (99.5%) exact matches, in which:  
192 unique CDR3  
13 unique J



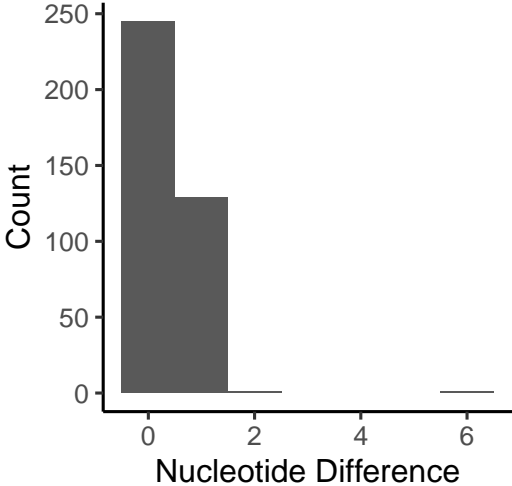
TRBV6-4\*ap01

5107 sequences assigned  
5041 (98.7%) exact matches, in which:  
4955 unique CDR3  
13 unique J



TRBV6-9\*ap01

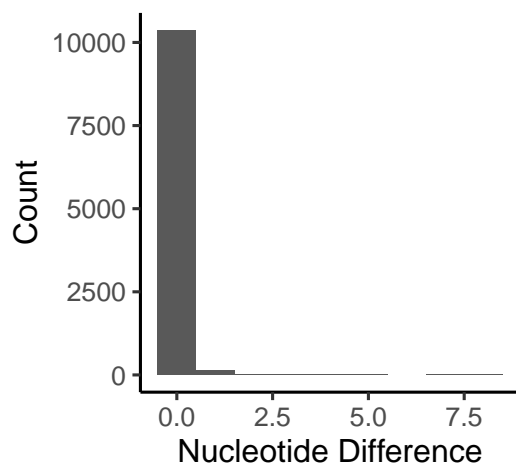
376 sequences assigned  
245 (65.2%) exact matches, in which:  
240 unique CDR3  
13 unique J





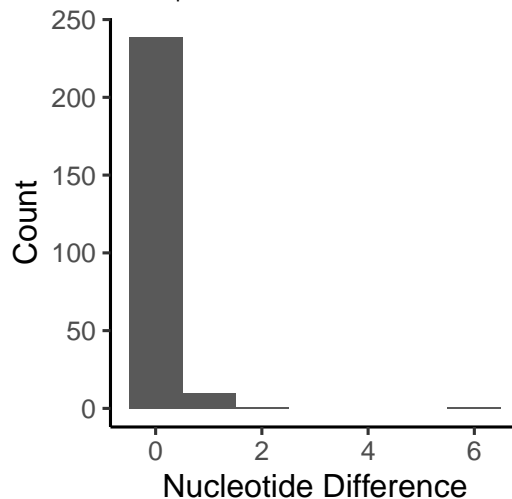
### TRBV6–23\*ap01

10512 sequences assigned  
10370 (98.6%) exact matches, in which:  
10117 unique CDR3  
13 unique J



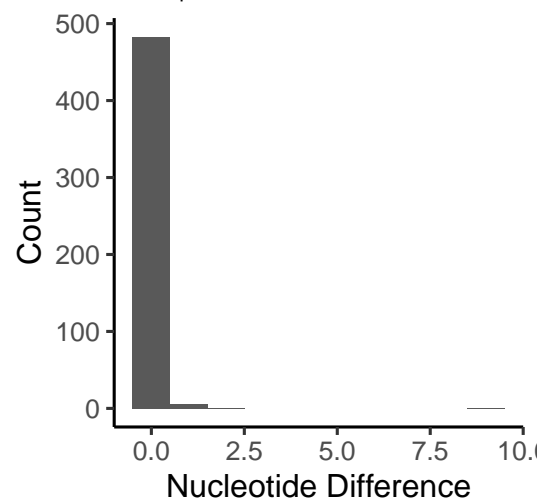
### TRBV7–1\*ap01\_G291C\_

251 sequences assigned  
239 (95.2%) exact matches, in which:  
237 unique CDR3  
13 unique J



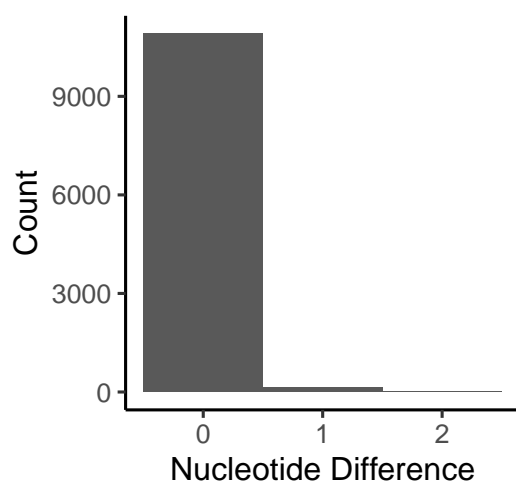
### TRBV7–4\*ap01

491 sequences assigned  
483 (98.4%) exact matches, in which:  
475 unique CDR3  
13 unique J



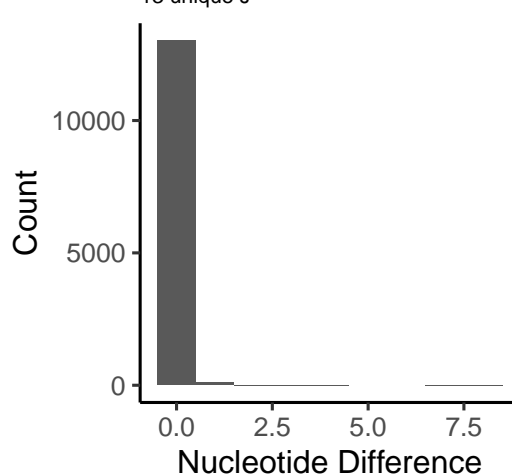
### TRBV6–56\*ap01

11033 sequences assigned  
10906 (98.8%) exact matches, in which:  
10645 unique CDR3  
13 unique J



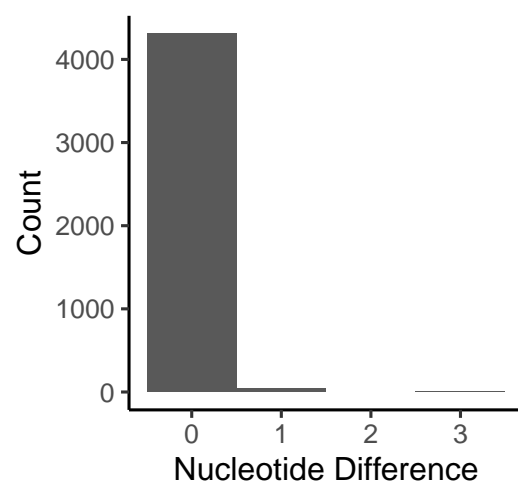
### TRBV7–2\*ap01

13133 sequences assigned  
13024 (99.2%) exact matches, in which:  
12797 unique CDR3  
13 unique J



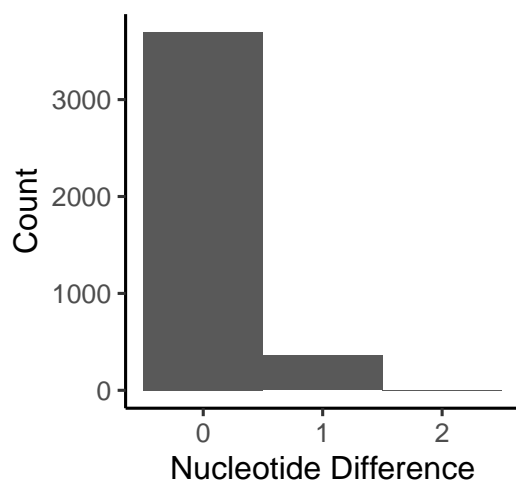
### TRBV7–6\*ap01

4355 sequences assigned  
4309 (98.9%) exact matches, in which:  
4204 unique CDR3  
13 unique J



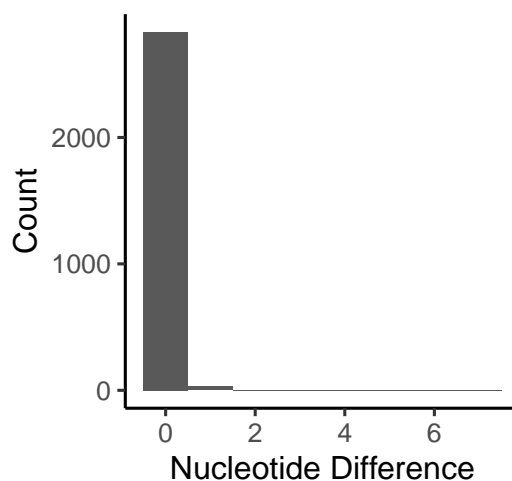
### TRBV6–56\*ap02

4057 sequences assigned  
3697 (91.1%) exact matches, in which:  
3614 unique CDR3  
13 unique J



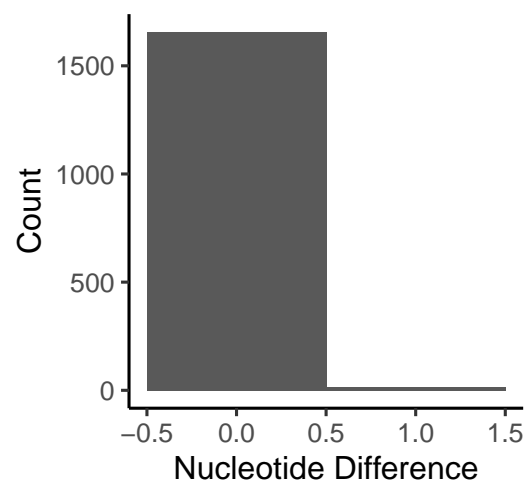
### TRBV7–3\*ap03

2873 sequences assigned  
2834 (98.6%) exact matches, in which:  
2770 unique CDR3  
13 unique J



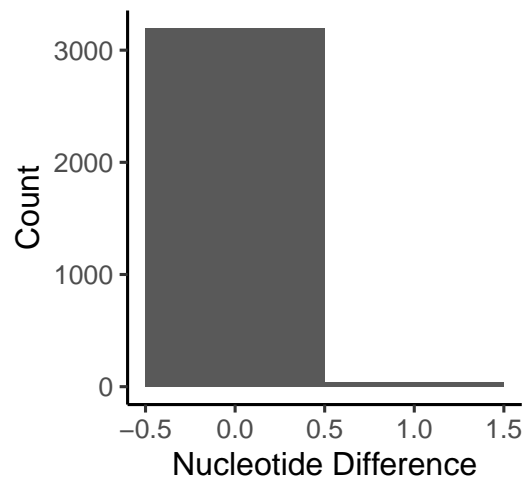
### TRBV7–7\*ap01\_C315T

1670 sequences assigned  
1656 (99.2%) exact matches, in which:  
1633 unique CDR3  
13 unique J



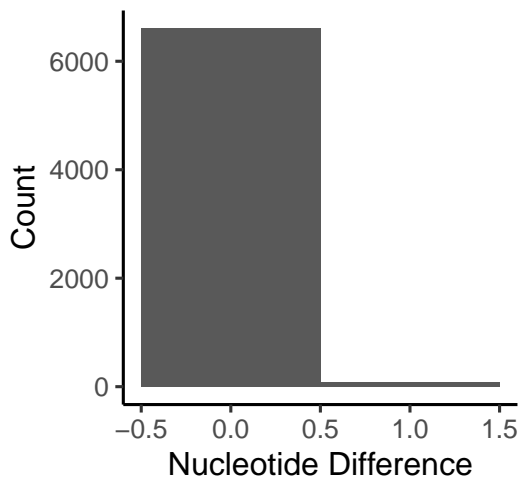
### TRBV7-8\*ap01

3233 sequences assigned  
3194 (98.8%) exact matches, in which:  
3123 unique CDR3  
13 unique J



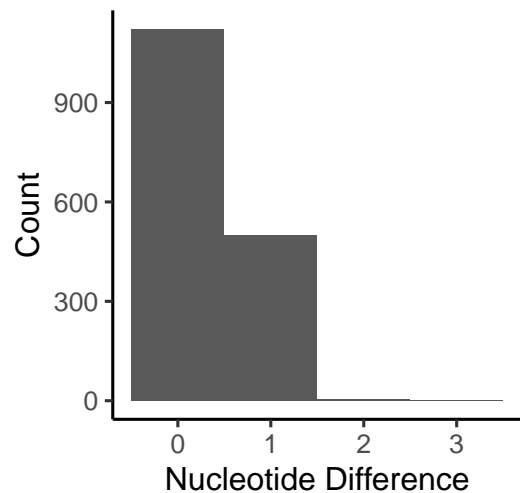
### TRBV29-1\*ap01

6684 sequences assigned  
6606 (98.8%) exact matches, in which:  
6454 unique CDR3  
13 unique J



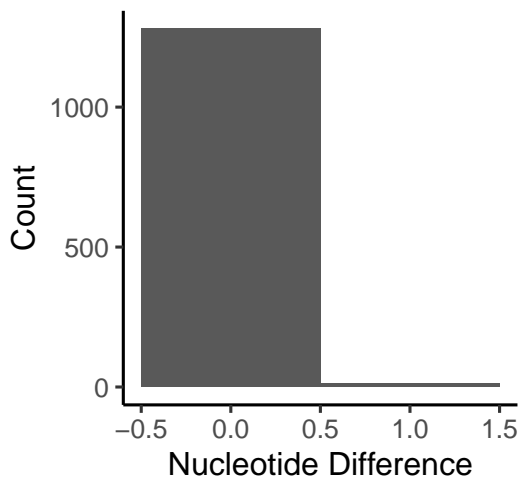
### TRBV7-8\*ap03

1629 sequences assigned  
1122 (68.9%) exact matches, in which:  
1094 unique CDR3  
13 unique J



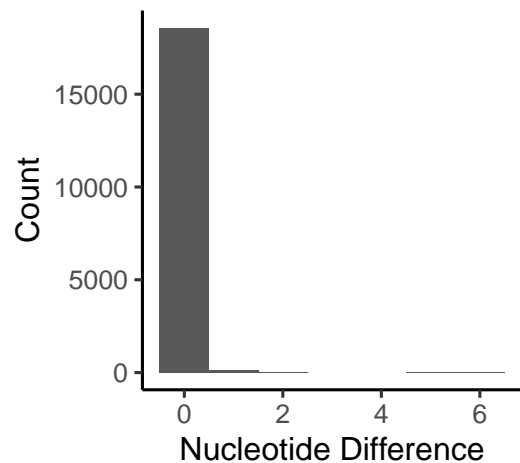
### TRBV29-1\*ap02

1291 sequences assigned  
1280 (99.1%) exact matches, in which:  
1265 unique CDR3  
13 unique J

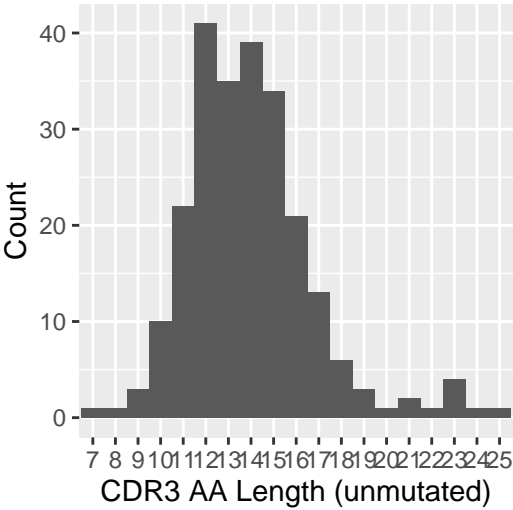


### TRBV7-9\*ap01

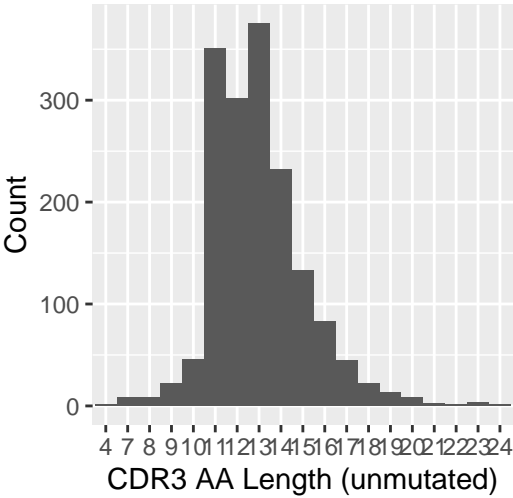
18732 sequences assigned  
18578 (99.2%) exact matches, in which:  
18252 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]