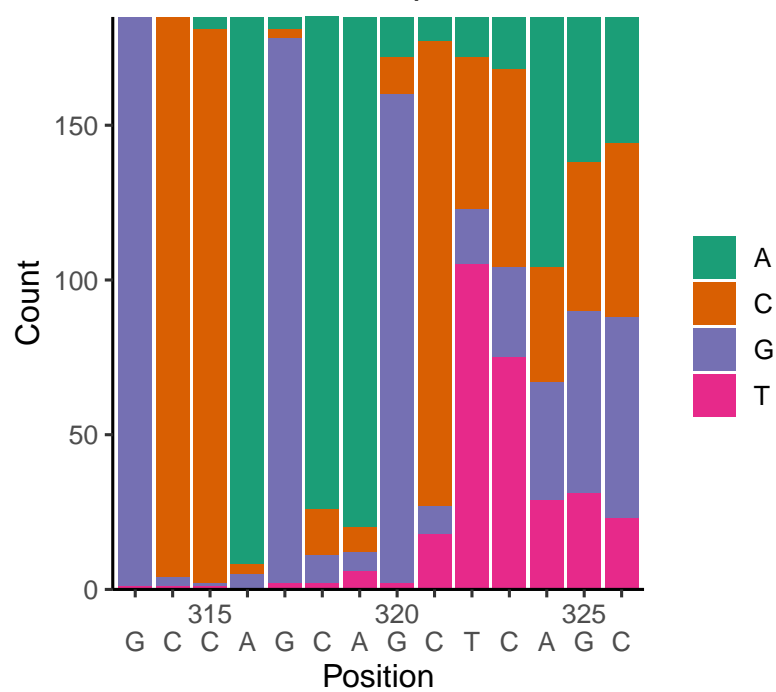
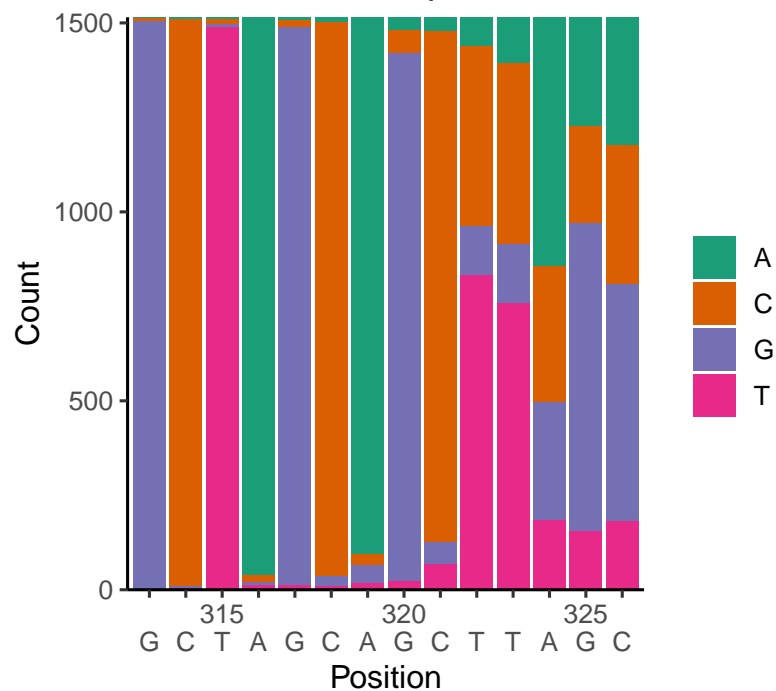


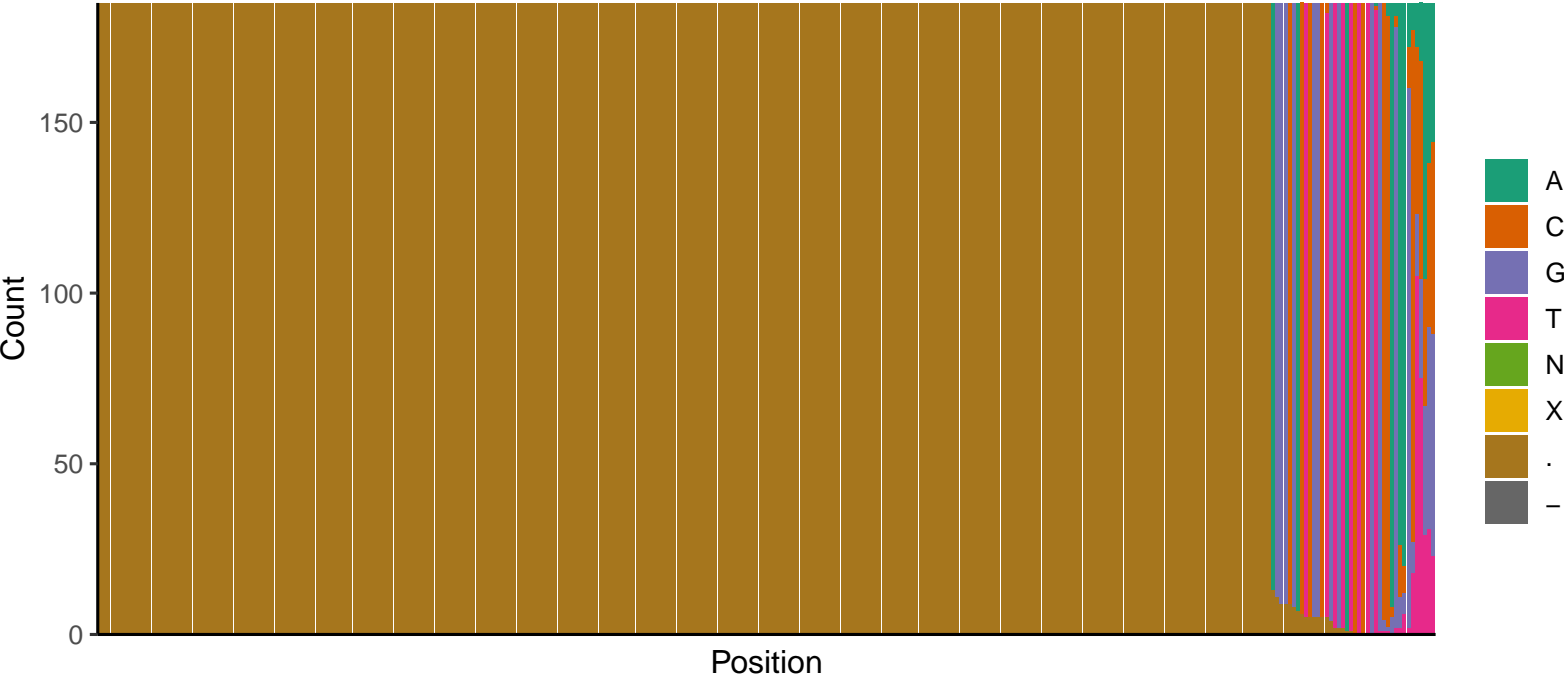
Gene TRBV7-1\*ap01\_G291C\_T296C



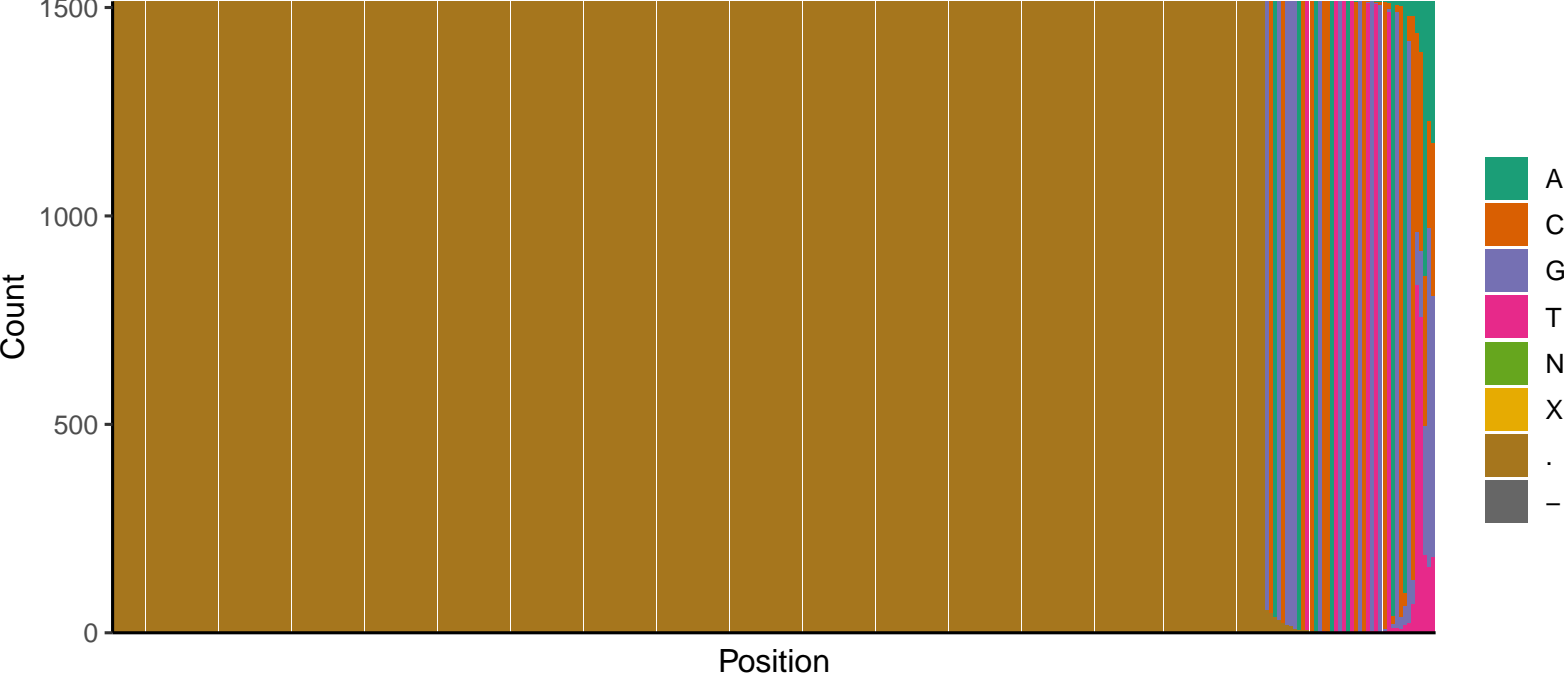
Gene TRBV7-7\*ap01\_C315T



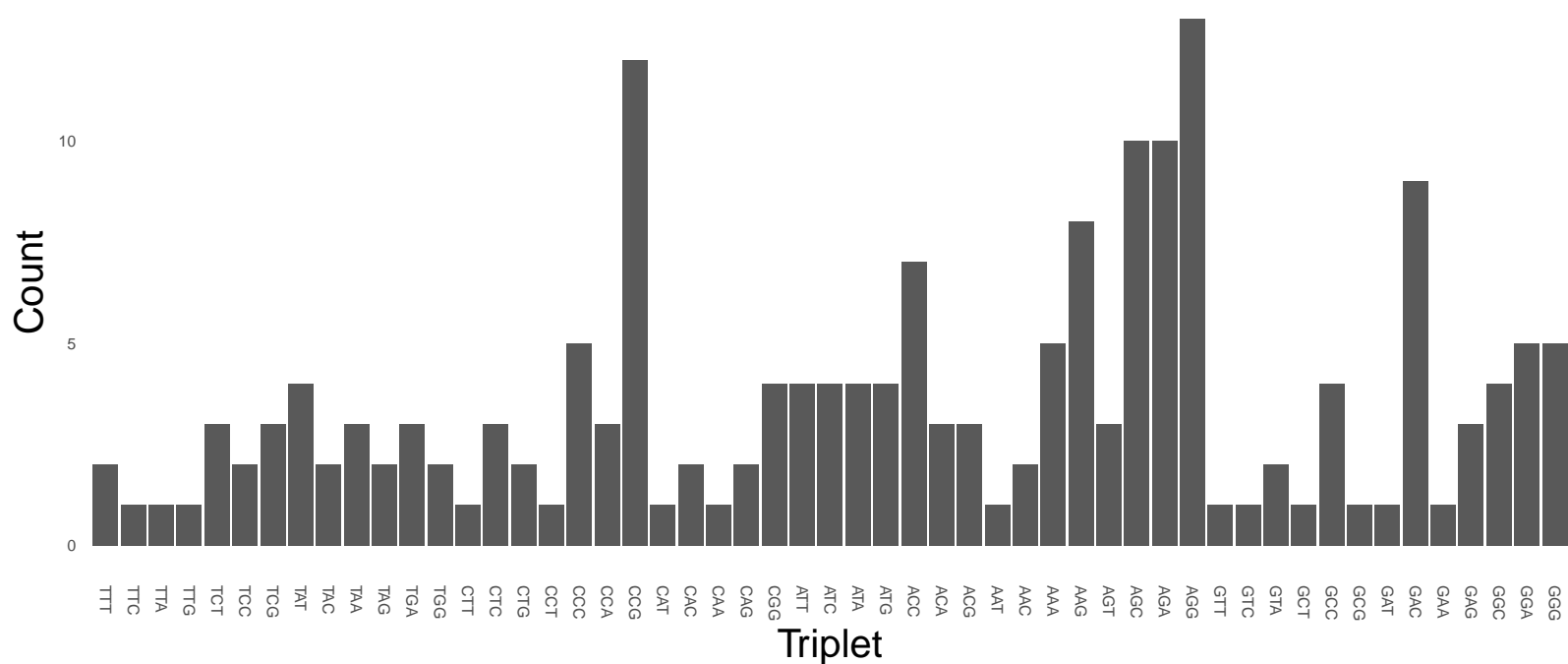
Gene TRBV7-1\*ap01\_G291C\_T296C



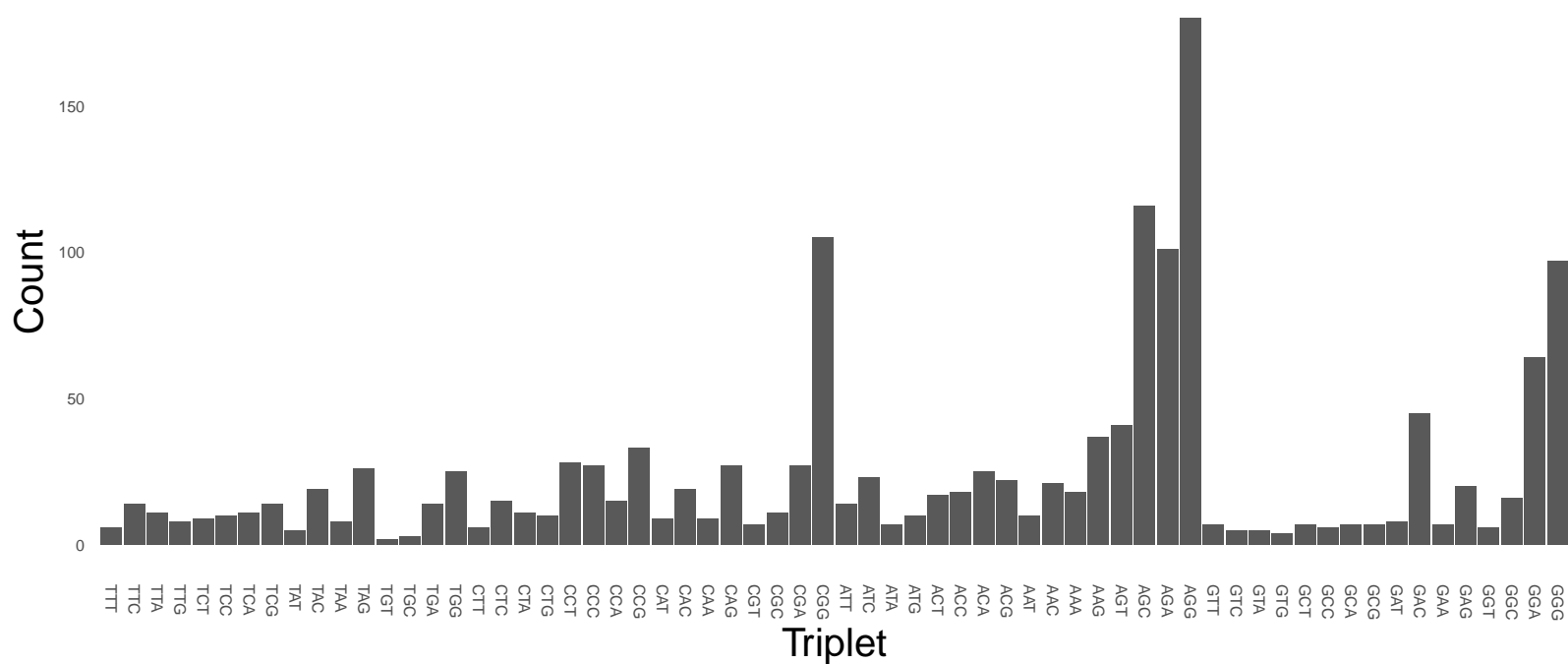
Gene TRBV7-7\*ap01\_C315T



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

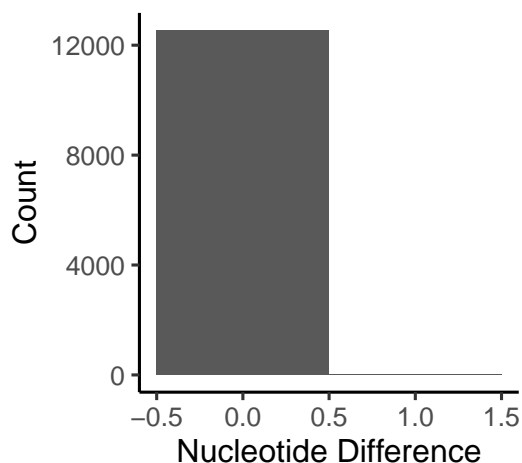


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



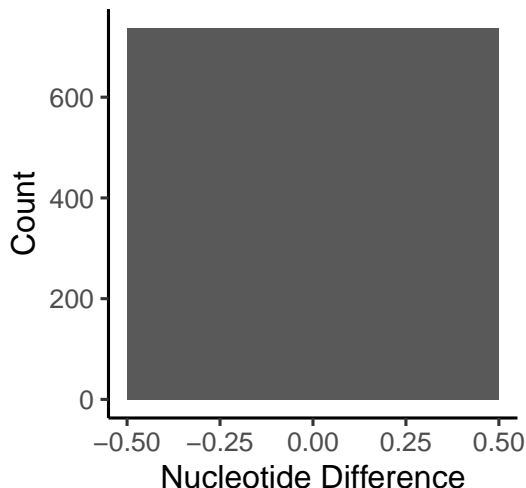
### TRBV20–1\*ap01

12569 sequences assigned  
12548 (99.8%) exact matches, in which:  
12536 unique CDR3  
13 unique J



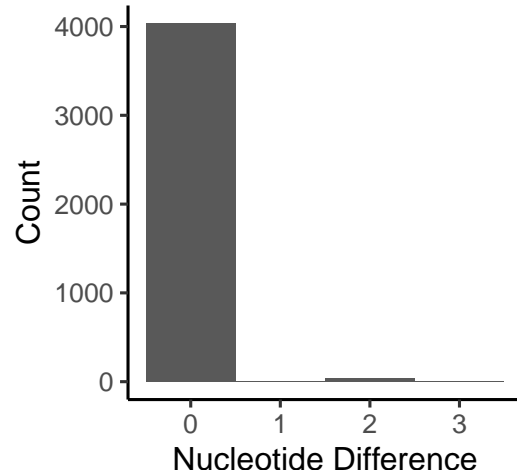
### TRBV10–2\*ap01

738 sequences assigned  
738 (100%) exact matches, in which:  
738 unique CDR3  
13 unique J



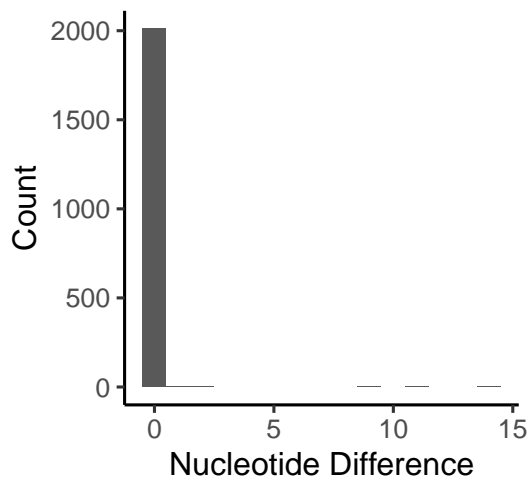
### TRBV13\*ap01

4079 sequences assigned  
4035 (98.9%) exact matches, in which:  
4033 unique CDR3  
13 unique J



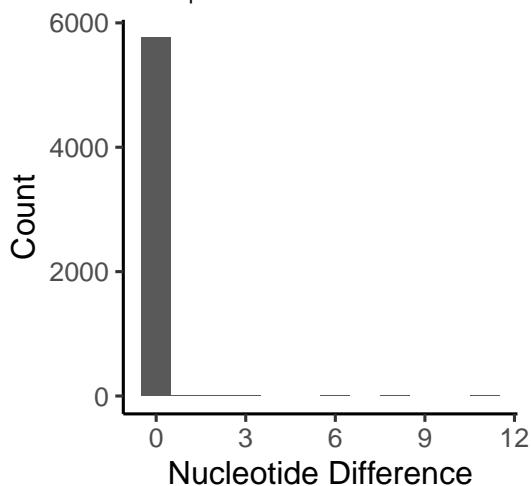
### TRBV10–1\*ap01

2021 sequences assigned  
2011 (99.5%) exact matches, in which:  
2009 unique CDR3  
13 unique J



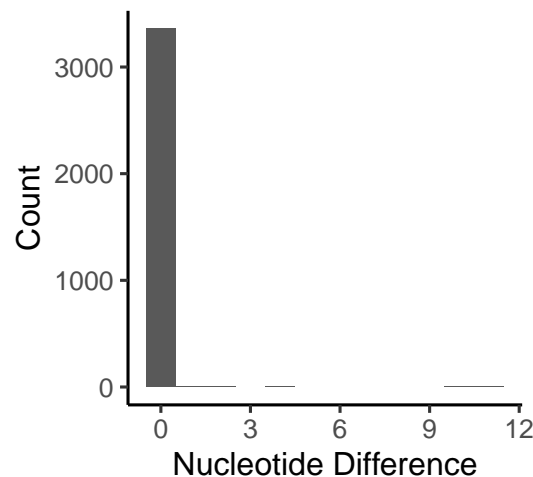
### TRBV10–3\*ap01

5780 sequences assigned  
5761 (99.7%) exact matches, in which:  
5760 unique CDR3  
13 unique J



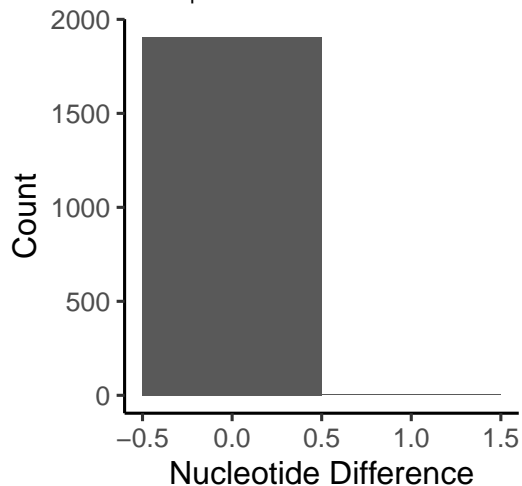
### TRBV14\*ap01

3364 sequences assigned  
3359 (99.9%) exact matches, in which:  
3359 unique CDR3  
13 unique J



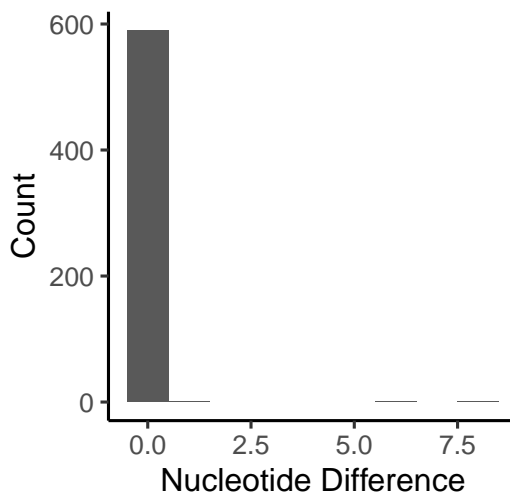
### TRBV20–1\*ap02

1911 sequences assigned  
1906 (99.7%) exact matches, in which:  
1903 unique CDR3  
13 unique J



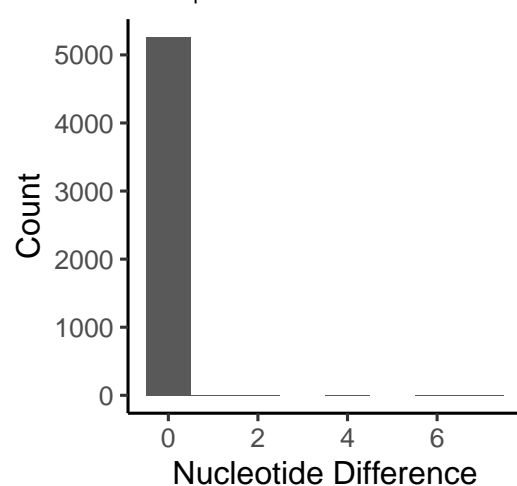
### TRBV1\*ap01

593 sequences assigned  
590 (99.5%) exact matches, in which:  
590 unique CDR3  
13 unique J



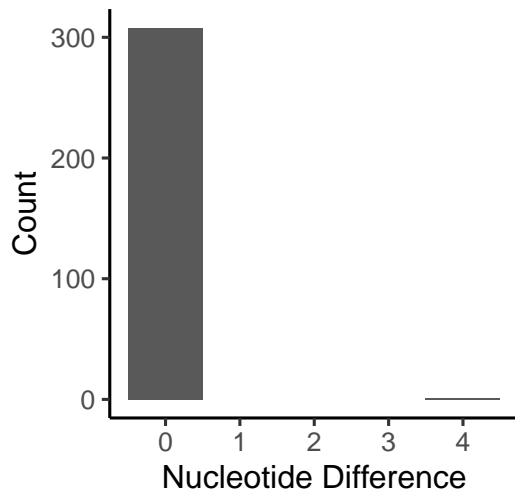
### TRBV15\*ap02

5274 sequences assigned  
5262 (99.8%) exact matches, in which:  
5258 unique CDR3  
13 unique J



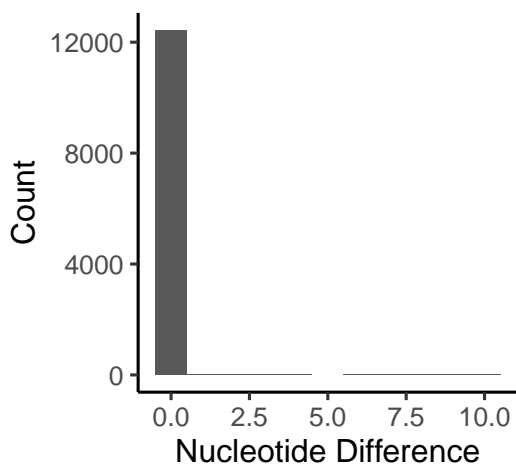
### TRBV16\*ap01

309 sequences assigned  
308 (99.7%) exact matches, in which:  
308 unique CDR3  
13 unique J



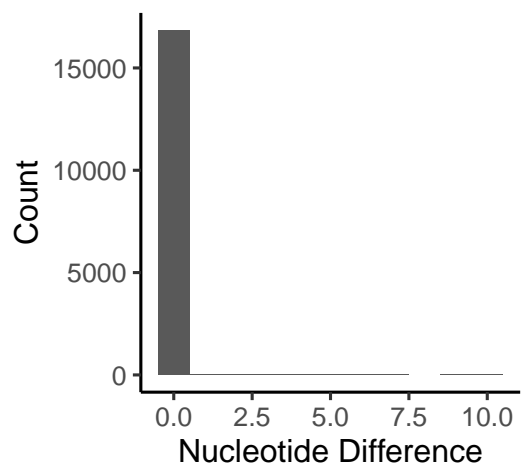
### TRBV19\*ap01

12480 sequences assigned  
12435 (99.6%) exact matches, in which:  
12435 unique CDR3  
13 unique J



### TRBV27\*ap01

16906 sequences assigned  
16846 (99.6%) exact matches, in which:  
16799 unique CDR3  
13 unique J



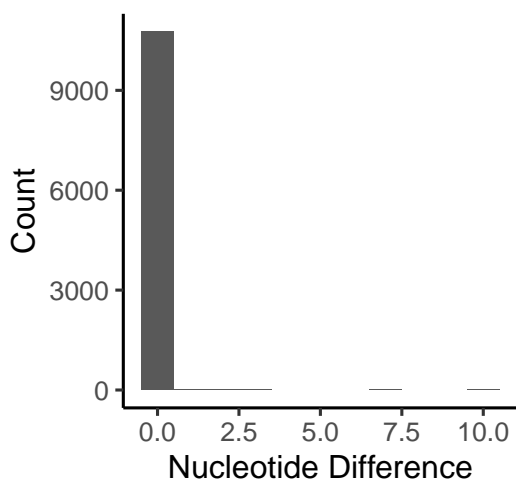
### TRBV17\*ap01

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



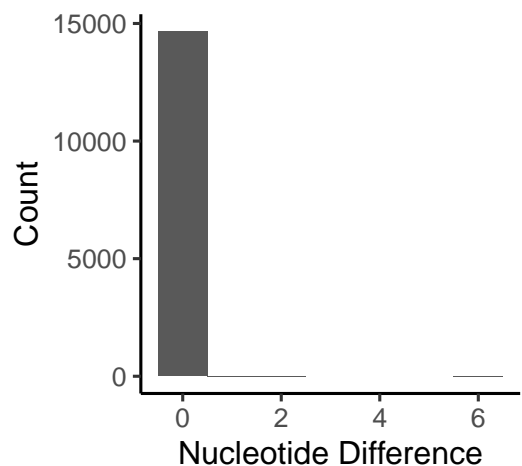
### TRBV2\*ap01

10784 sequences assigned  
10760 (99.8%) exact matches, in which:  
10742 unique CDR3  
14 unique J



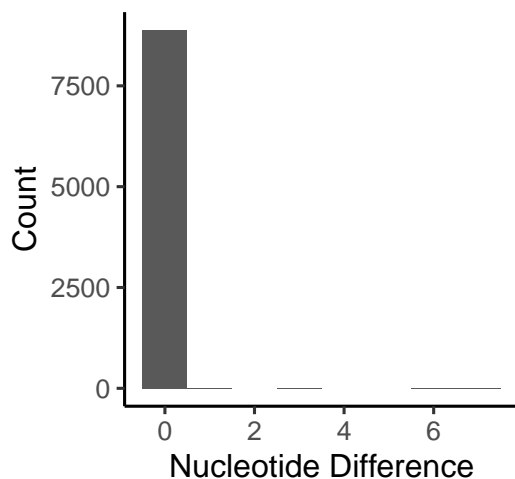
### TRBV28\*ap01

14687 sequences assigned  
14660 (99.8%) exact matches, in which:  
14658 unique CDR3  
13 unique J



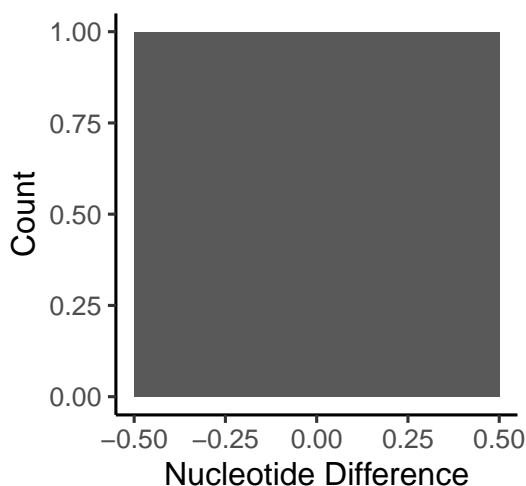
### TRBV18\*ap01

8898 sequences assigned  
8883 (99.8%) exact matches, in which:  
8883 unique CDR3  
13 unique J



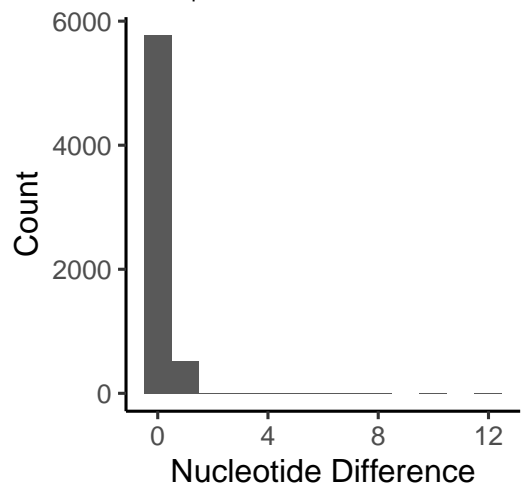
### TRBV26\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



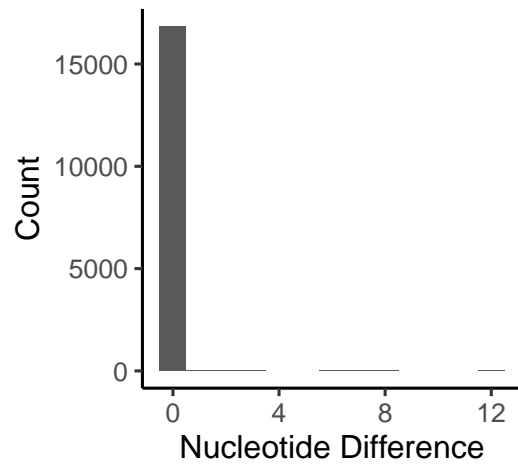
### TRBV30\*ap01

6323 sequences assigned  
5776 (91.3%) exact matches, in which:  
5767 unique CDR3  
13 unique J



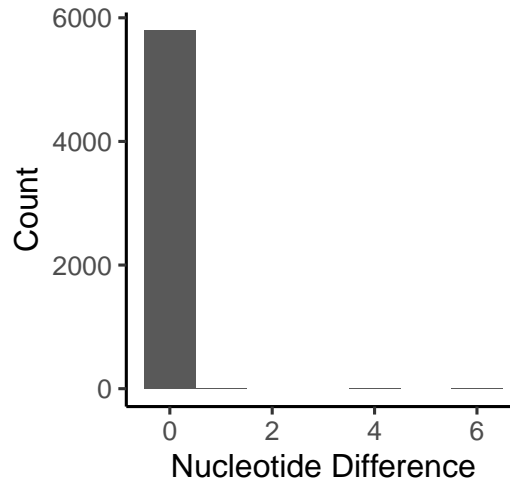
### TRBV9\*ap01

16878 sequences assigned  
16849 (99.8%) exact matches, in which:  
16837 unique CDR3  
13 unique J



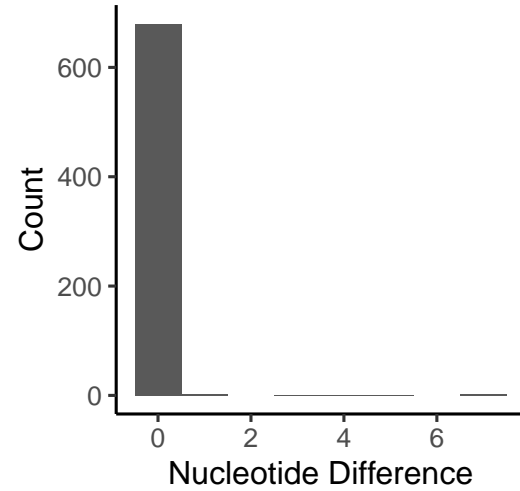
### TRBV11-2\*ap01

5807 sequences assigned  
5796 (99.8%) exact matches, in which:  
5794 unique CDR3  
13 unique J



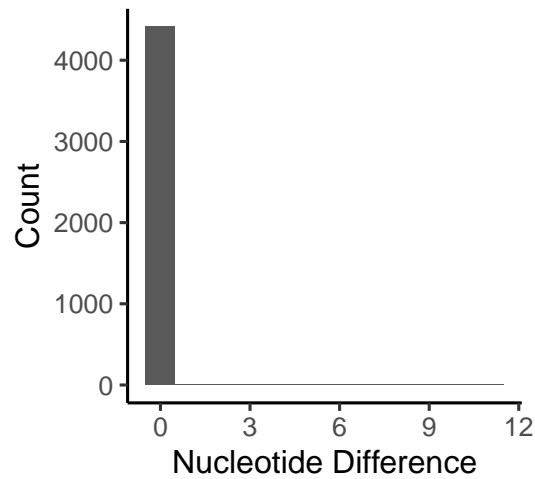
### TRBV12-2\*ap01

688 sequences assigned  
680 (98.8%) exact matches, in which:  
680 unique CDR3  
13 unique J



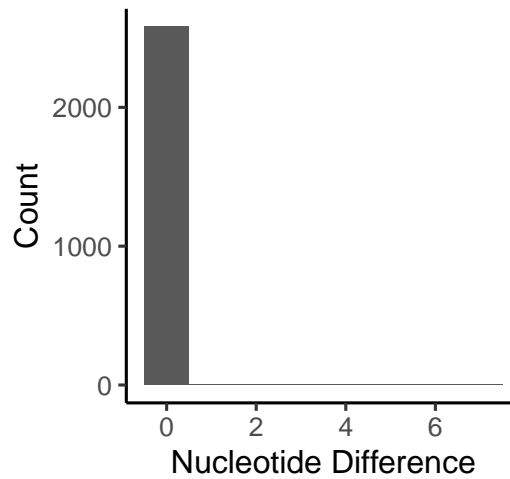
### TRBV21-1\*ap01

4463 sequences assigned  
4413 (98.9%) exact matches, in which:  
4413 unique CDR3  
13 unique J



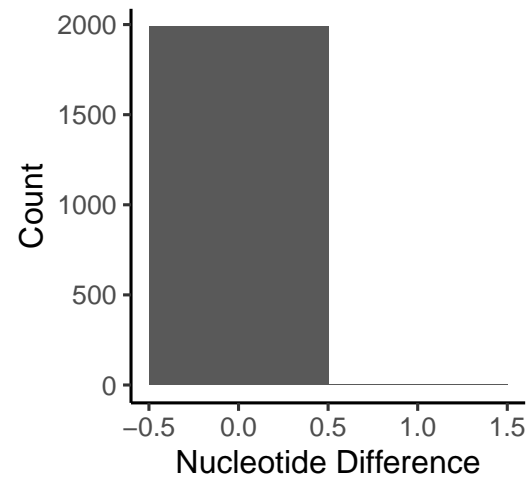
### TRBV11-3\*ap01

2592 sequences assigned  
2581 (99.6%) exact matches, in which:  
2581 unique CDR3  
13 unique J



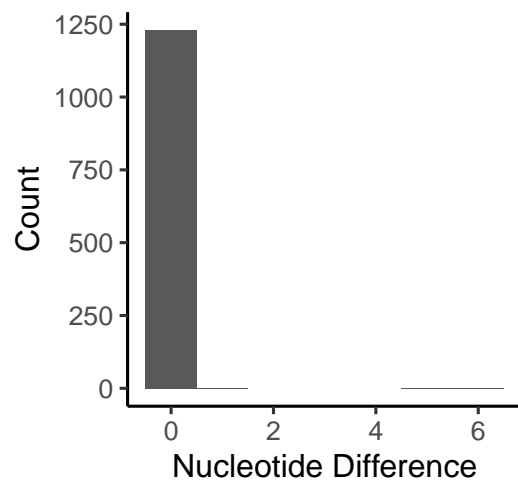
### TRBV12-5\*ap01

1990 sequences assigned  
1988 (99.9%) exact matches, in which:  
1988 unique CDR3  
13 unique J



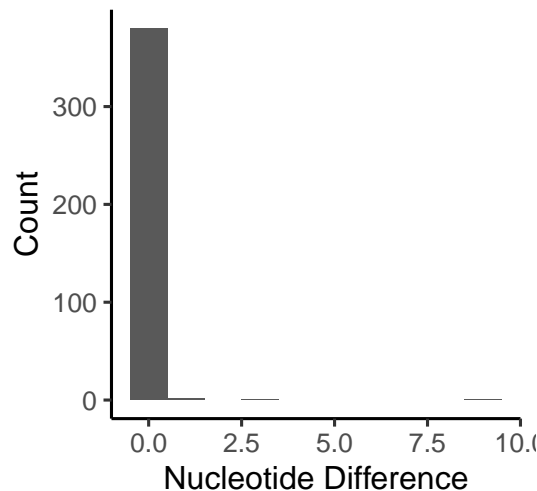
### TRBV11-1\*ap01

1234 sequences assigned  
1230 (99.7%) exact matches, in which:  
1229 unique CDR3  
13 unique J



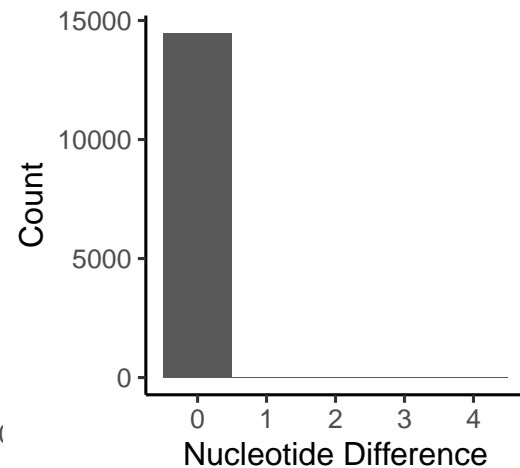
### TRBV12-1\*ap01

384 sequences assigned  
380 (99%) exact matches, in which:  
380 unique CDR3  
13 unique J



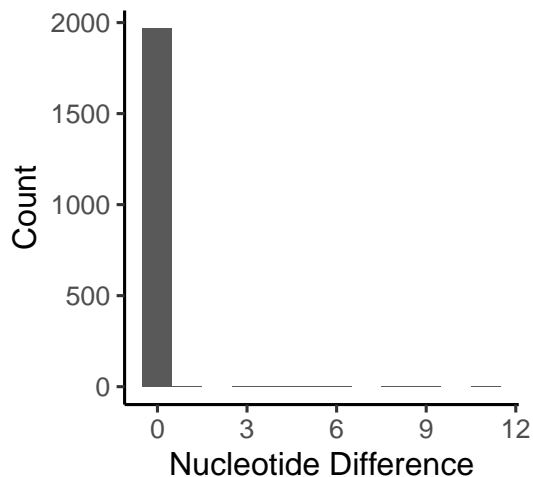
### TRBV12-34\*ap01

14507 sequences assigned  
14484 (99.8%) exact matches, in which:  
14481 unique CDR3  
13 unique J



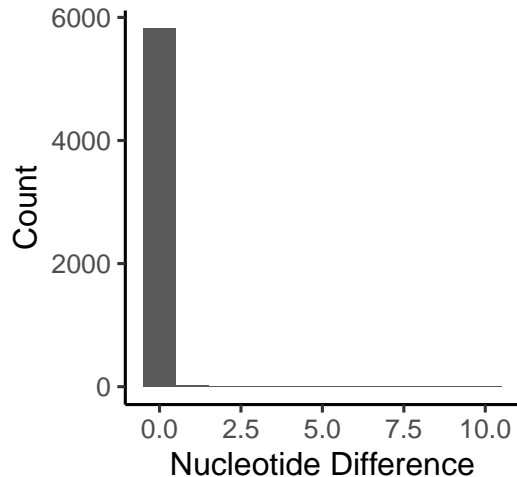
### TRBV23-1\*ap01

1989 sequences assigned  
1968 (98.9%) exact matches, in which:  
1967 unique CDR3  
13 unique J



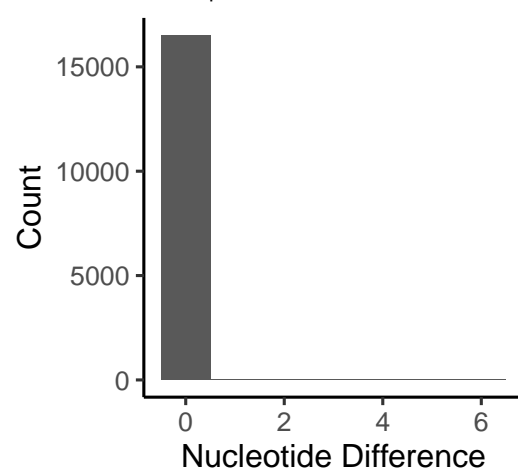
### TRBV24-1\*ap01

5862 sequences assigned  
5821 (99.3%) exact matches, in which:  
5806 unique CDR3  
13 unique J



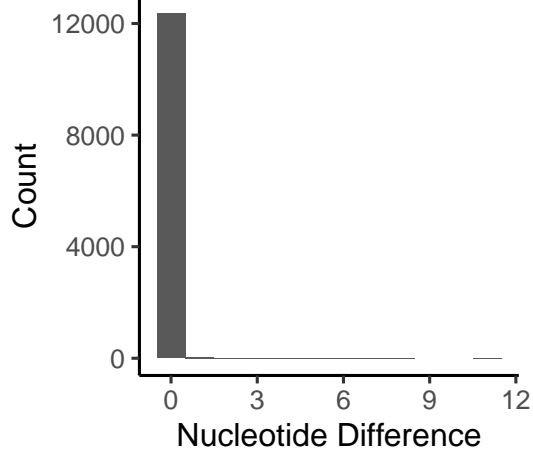
### TRBV5-1\*ap01

16556 sequences assigned  
16518 (99.8%) exact matches, in which:  
16500 unique CDR3  
13 unique J



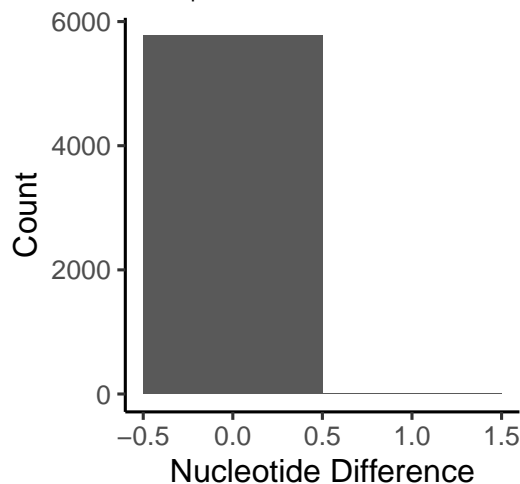
### TRBV3-12\*ap01

12416 sequences assigned  
12361 (99.6%) exact matches, in which:  
12335 unique CDR3  
13 unique J



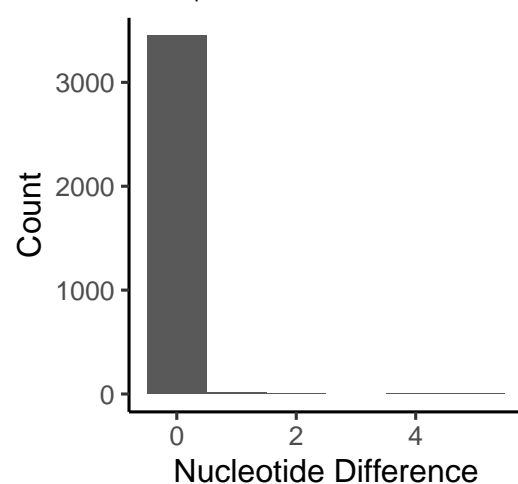
### TRBV4-2\*ap01

5787 sequences assigned  
5772 (99.7%) exact matches, in which:  
5769 unique CDR3  
13 unique J



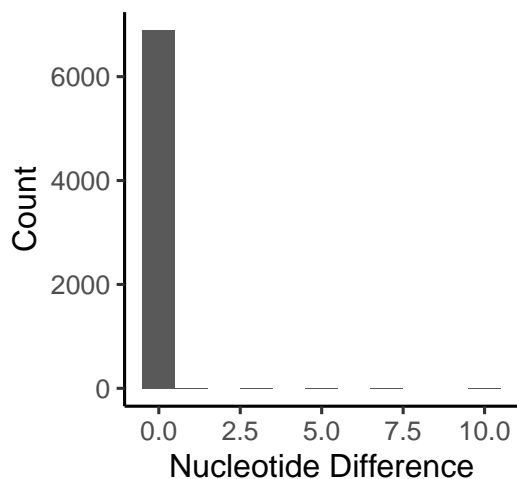
### TRBV25-1\*ap01

3471 sequences assigned  
3449 (99.4%) exact matches, in which:  
3441 unique CDR3  
13 unique J



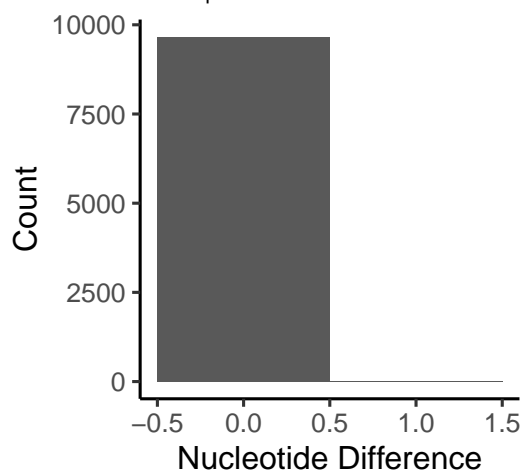
### TRBV4-1\*ap01

6907 sequences assigned  
6897 (99.9%) exact matches, in which:  
6895 unique CDR3  
13 unique J



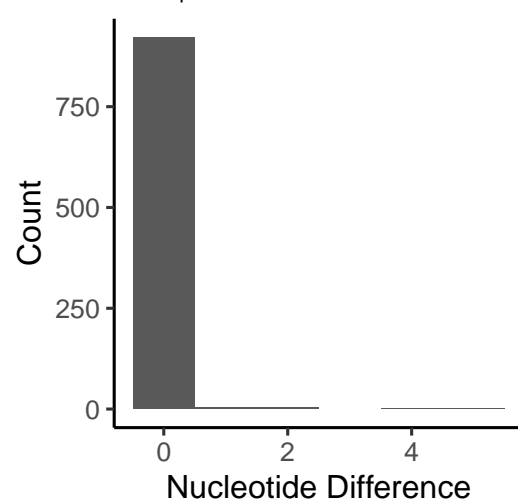
### TRBV4-3\*ap01

9677 sequences assigned  
9664 (99.9%) exact matches, in which:  
9659 unique CDR3  
13 unique J



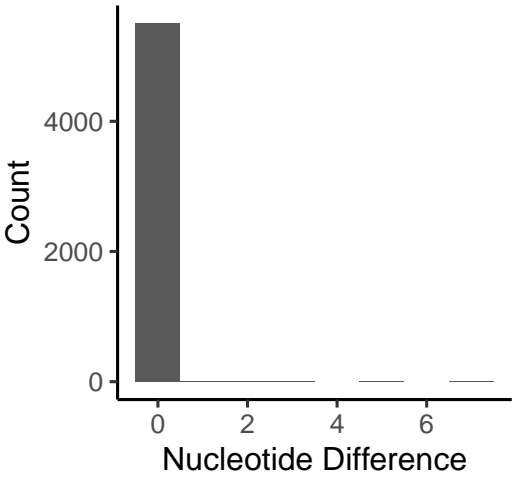
### TRBV5-3\*ap01

931 sequences assigned  
922 (99%) exact matches, in which:  
922 unique CDR3  
13 unique J



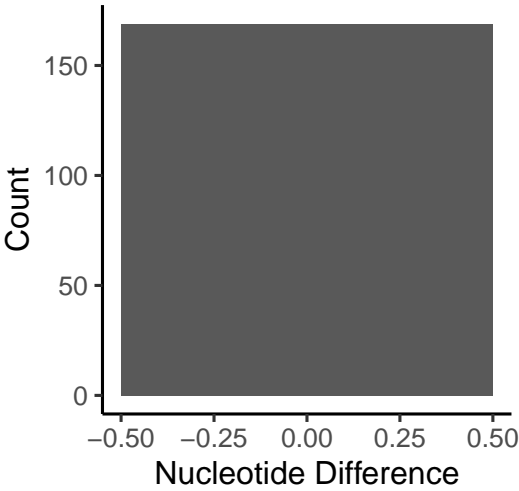
TRBV5-4\*ap01

5517 sequences assigned  
5504 (99.8%) exact matches, in which:  
5503 unique CDR3  
13 unique J



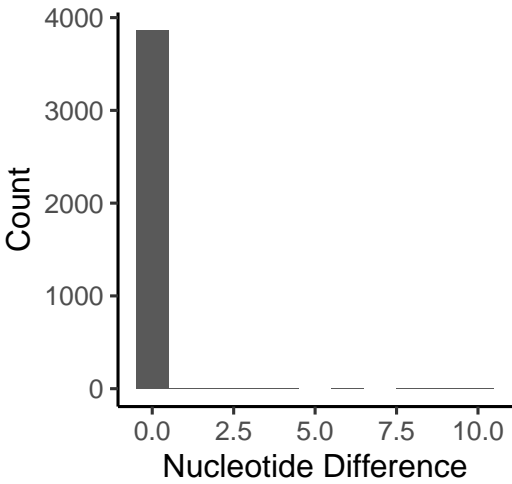
TRBV5-7\*ap01

169 sequences assigned  
169 (100%) exact matches, in which:  
169 unique CDR3  
13 unique J



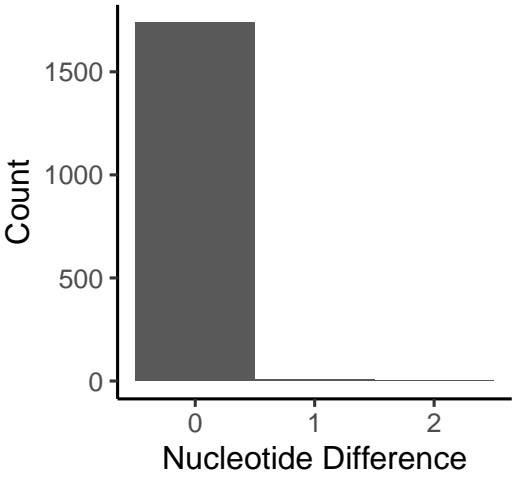
TRBV6-4\*ap01

3881 sequences assigned  
3862 (99.5%) exact matches, in which:  
3862 unique CDR3  
13 unique J



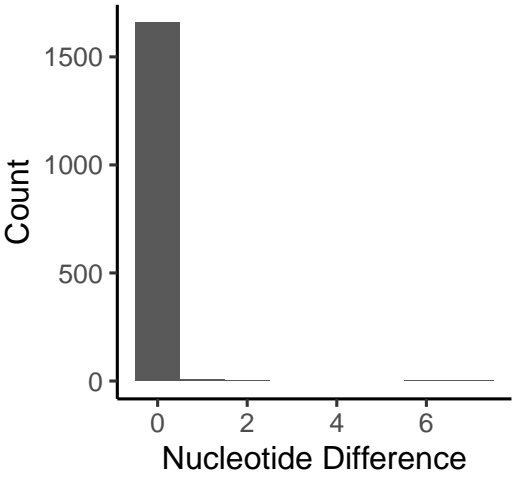
TRBV5-5\*ap01

1744 sequences assigned  
1738 (99.7%) exact matches, in which:  
1738 unique CDR3  
13 unique J



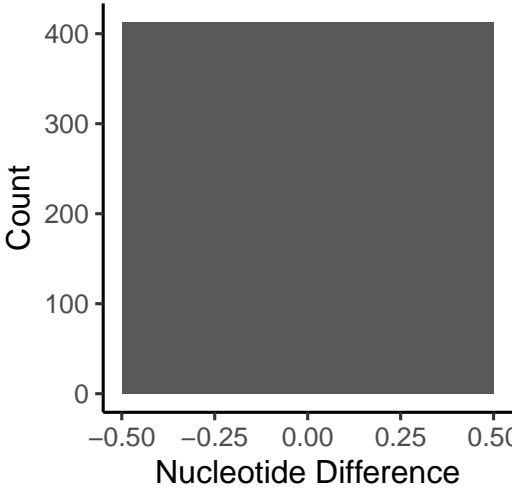
TRBV5-8\*ap01

1670 sequences assigned  
1658 (99.3%) exact matches, in which:  
1657 unique CDR3  
13 unique J



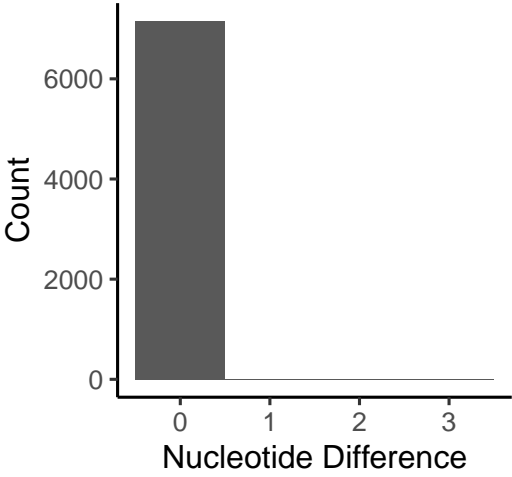
TRBV6-7\*ap01

413 sequences assigned  
413 (100%) exact matches, in which:  
413 unique CDR3  
13 unique J



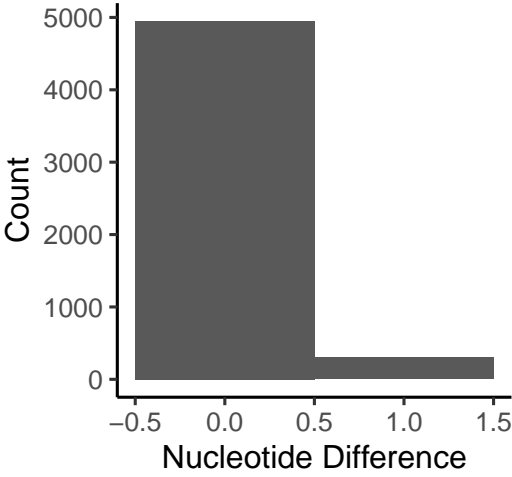
TRBV5-6\*ap01

7168 sequences assigned  
7154 (99.8%) exact matches, in which:  
7142 unique CDR3  
13 unique J



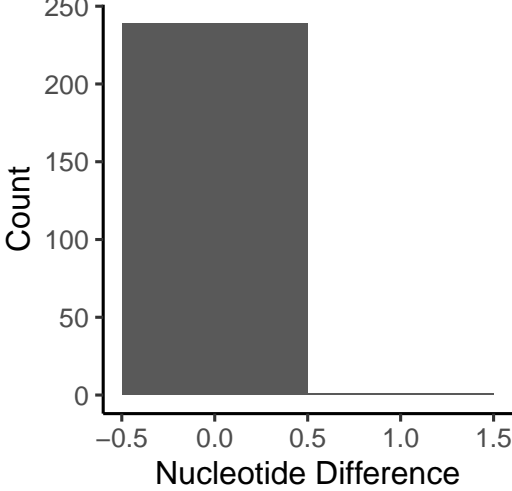
TRBV6-1\*ap01

5254 sequences assigned  
4950 (94.2%) exact matches, in which:  
4945 unique CDR3  
13 unique J



TRBV6-8\*ap01

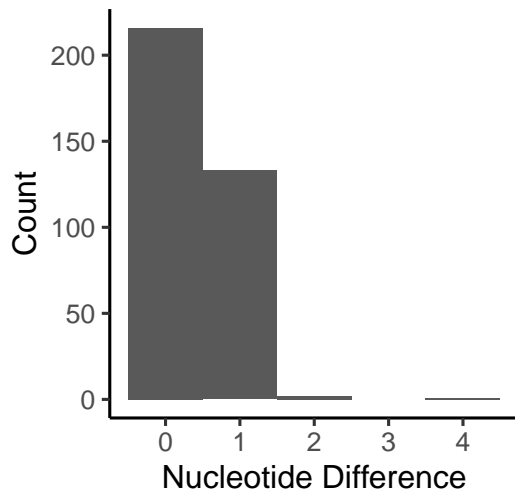
240 sequences assigned  
239 (99.6%) exact matches, in which:  
239 unique CDR3  
13 unique J





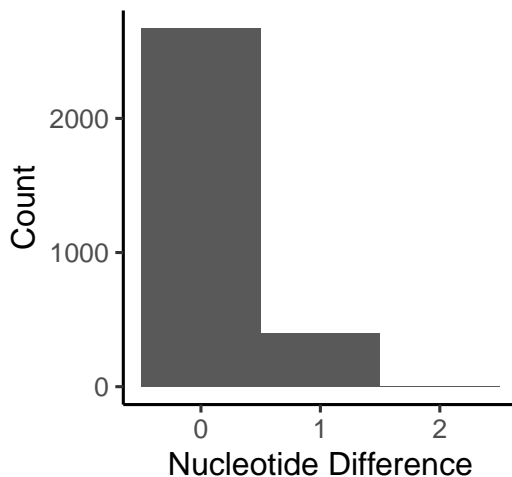
### TRBV6–9\*ap01

352 sequences assigned  
216 (61.4%) exact matches, in which:  
216 unique CDR3  
13 unique J



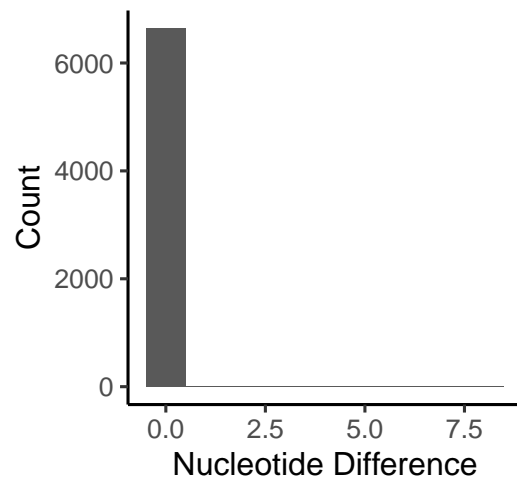
### TRBV6–56\*ap02

3072 sequences assigned  
2671 (86.9%) exact matches, in which:  
2668 unique CDR3  
13 unique J



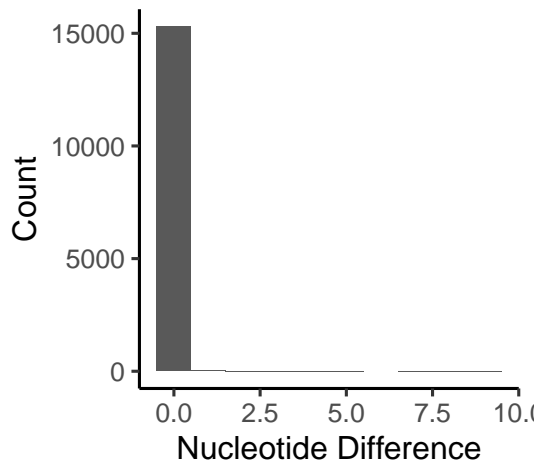
### TRBV7–3\*ap01

6668 sequences assigned  
6641 (99.6%) exact matches, in which:  
6637 unique CDR3  
13 unique J



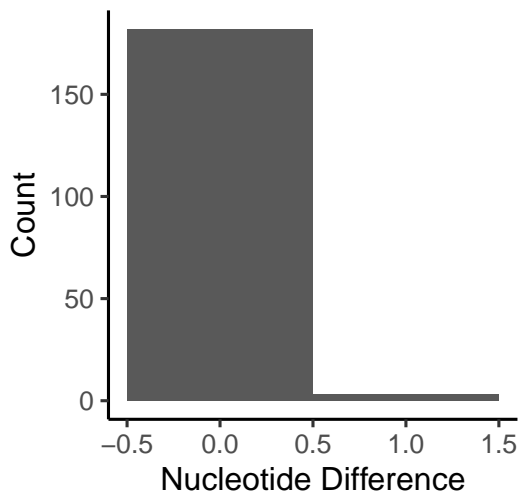
### TRBV6–23\*ap01

15354 sequences assigned  
15303 (99.7%) exact matches, in which:  
15272 unique CDR3  
13 unique J



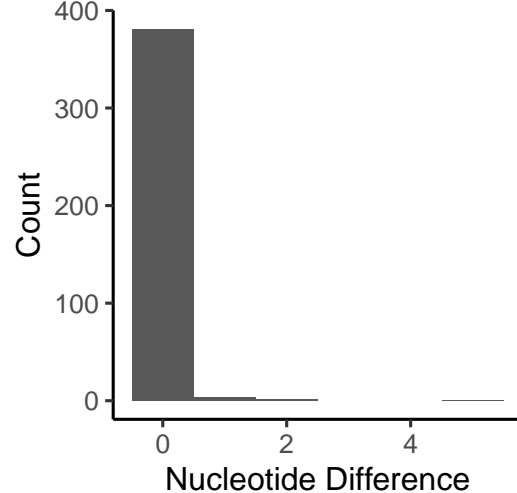
### TRBV7–1\*ap01\_G291C\_

185 sequences assigned  
182 (98.4%) exact matches, in which:  
182 unique CDR3  
13 unique J



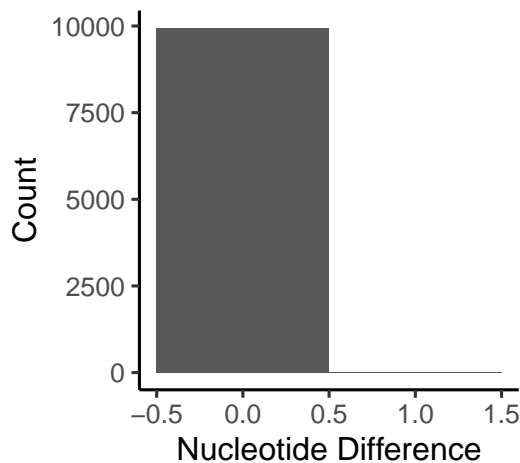
### TRBV7–4\*ap01

388 sequences assigned  
381 (98.2%) exact matches, in which:  
381 unique CDR3  
13 unique J



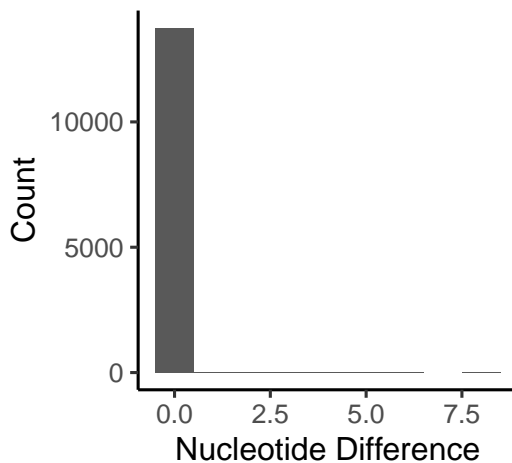
### TRBV6–56\*ap01

9958 sequences assigned  
9949 (99.9%) exact matches, in which:  
9942 unique CDR3  
13 unique J



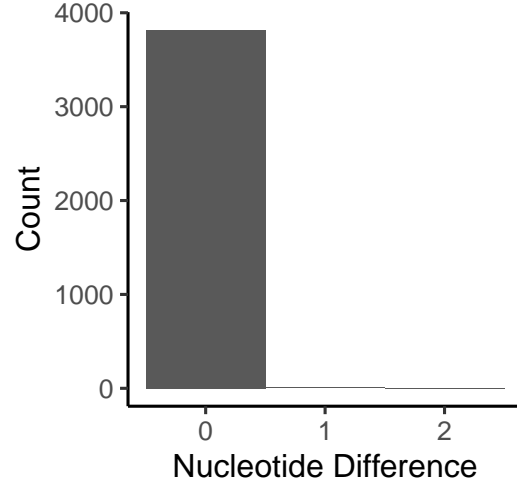
### TRBV7–2\*ap01

13786 sequences assigned  
13755 (99.8%) exact matches, in which:  
13753 unique CDR3  
13 unique J



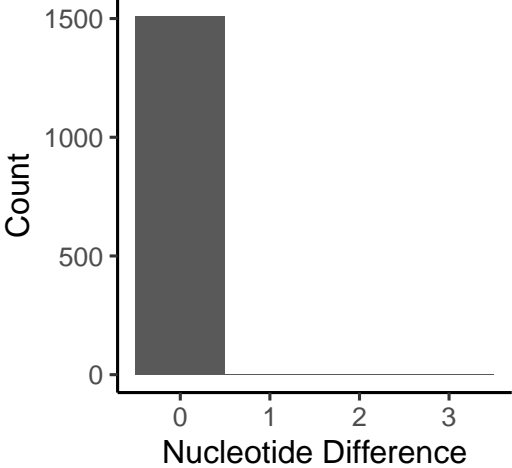
### TRBV7–6\*ap01

3825 sequences assigned  
3816 (99.8%) exact matches, in which:  
3816 unique CDR3  
13 unique J



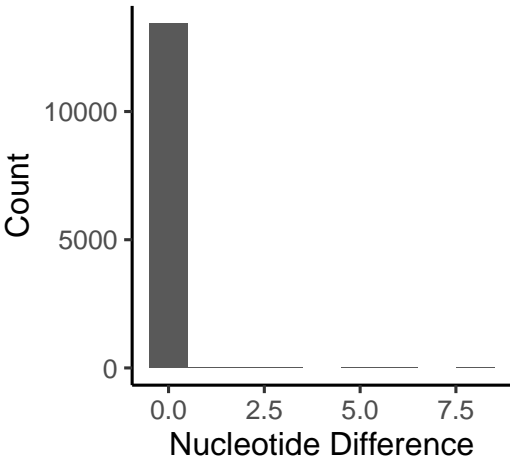
TRBV7-7\*ap01\_C315T

1515 sequences assigned  
1509 (99.6%) exact matches, in which:  
1509 unique CDR3  
13 unique J



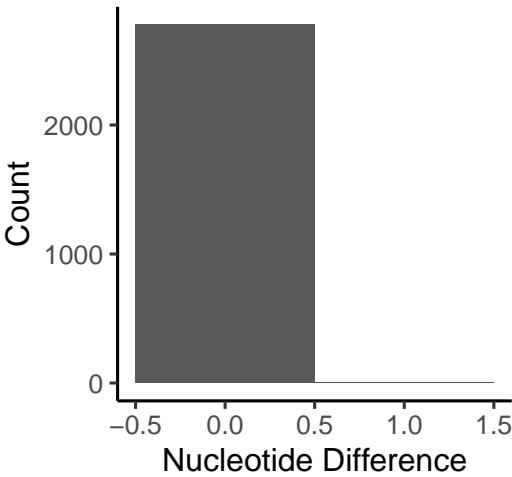
TRBV7-9\*ap01

13473 sequences assigned  
13447 (99.8%) exact matches, in which:  
13445 unique CDR3  
13 unique J



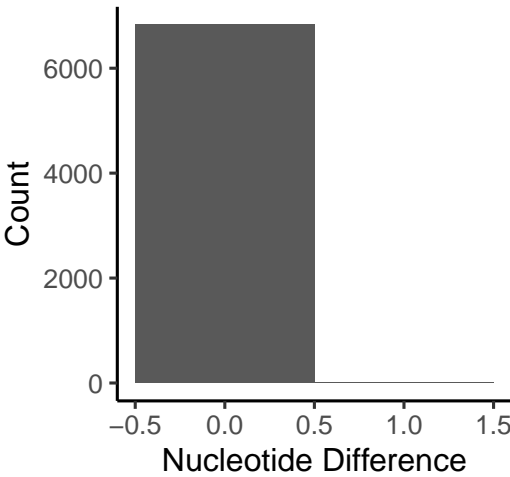
TRBV7-8\*ap01

2780 sequences assigned  
2777 (99.9%) exact matches, in which:  
2777 unique CDR3  
13 unique J



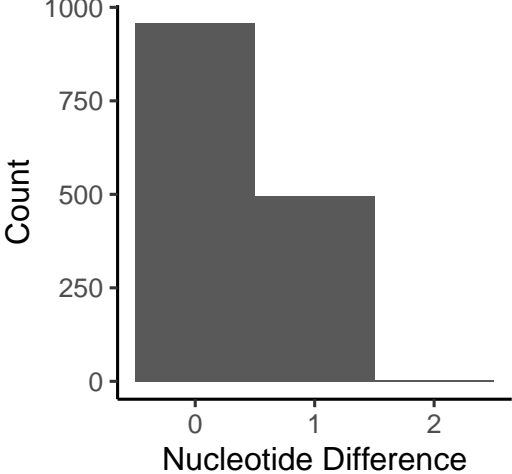
TRBV29-1\*ap01

6847 sequences assigned  
6829 (99.7%) exact matches, in which:  
6810 unique CDR3  
13 unique J



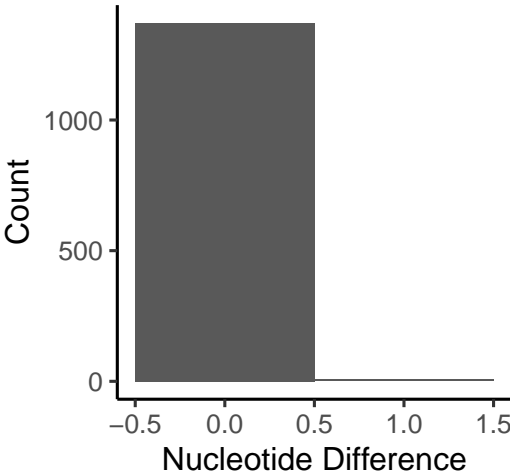
TRBV7-8\*ap03

1456 sequences assigned  
958 (65.8%) exact matches, in which:  
958 unique CDR3  
13 unique J

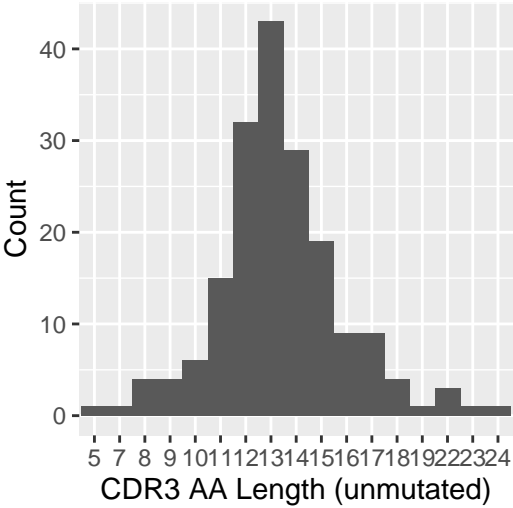


TRBV29-1\*ap02

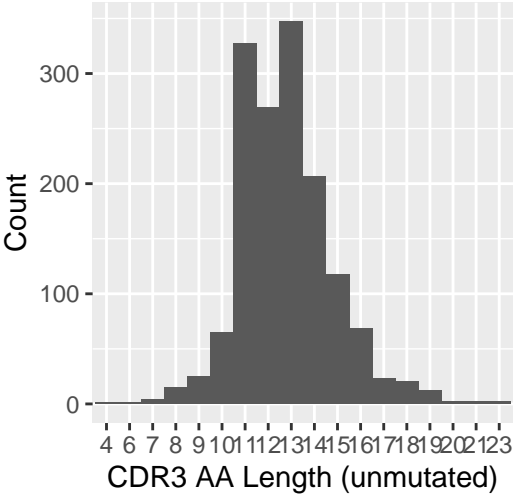
1378 sequences assigned  
1371 (99.5%) exact matches, in which:  
1371 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]