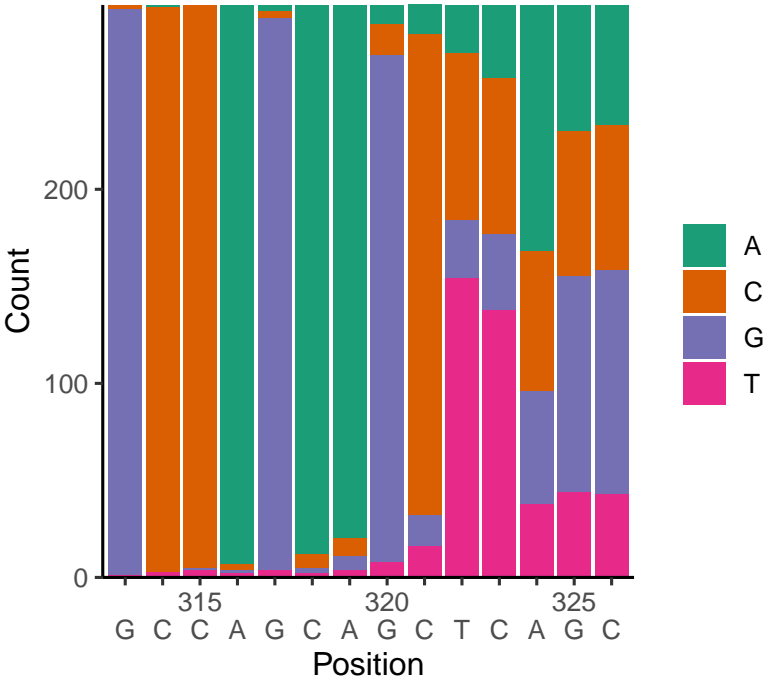


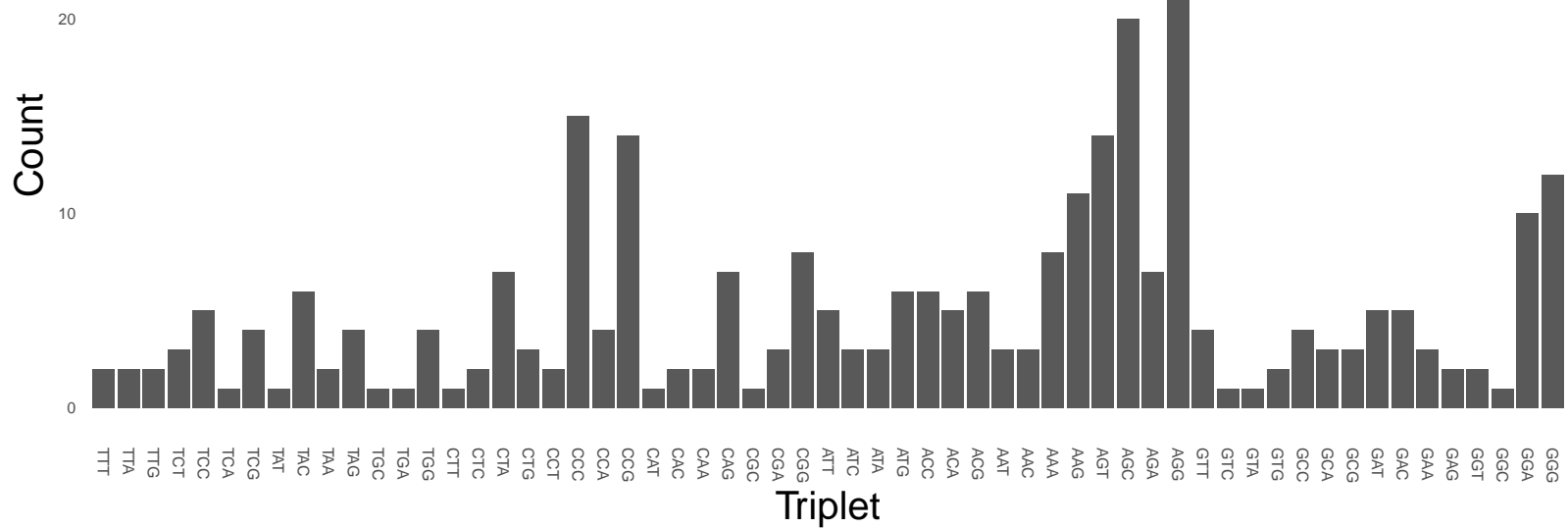
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-1\*ap01\_G291C\_T296C

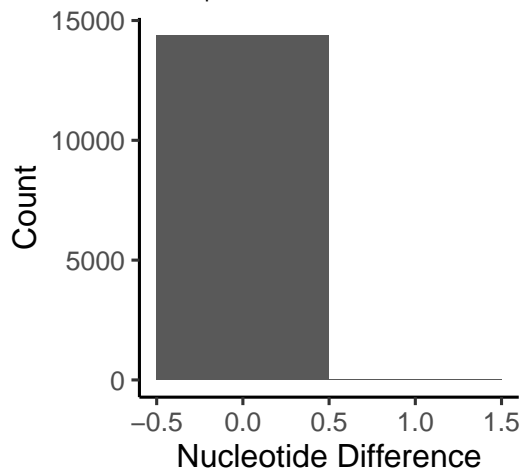


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



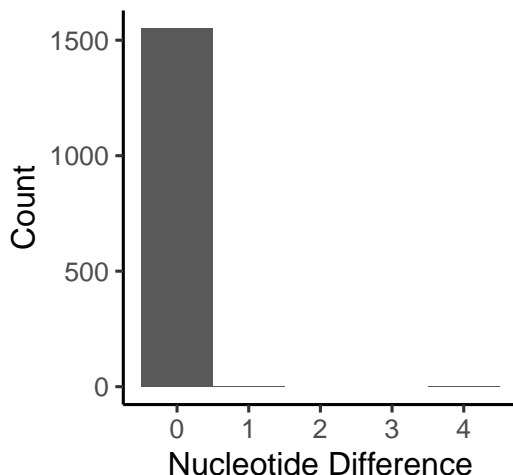
### TRBV20-1\*ap01

14421 sequences assigned  
14389 (99.8%) exact matches, in which:  
14376 unique CDR3  
13 unique J



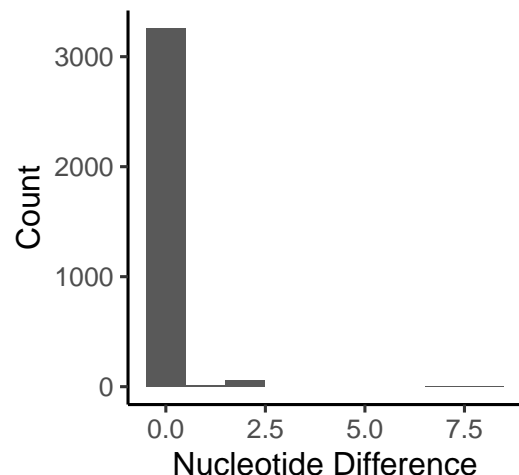
### TRBV10-2\*ap01

1554 sequences assigned  
1551 (99.8%) exact matches, in which:  
1551 unique CDR3  
13 unique J



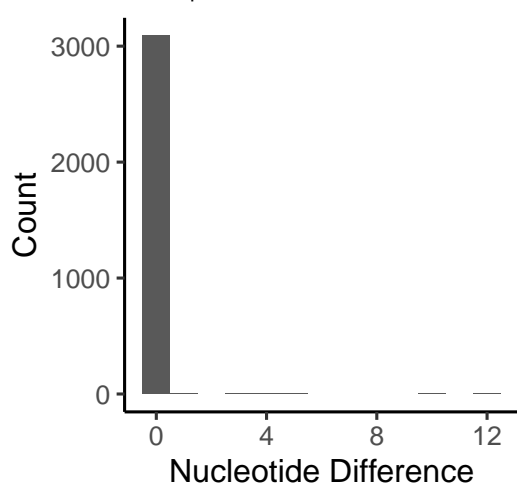
### TRBV13\*ap01

3333 sequences assigned  
3257 (97.7%) exact matches, in which:  
3251 unique CDR3  
13 unique J



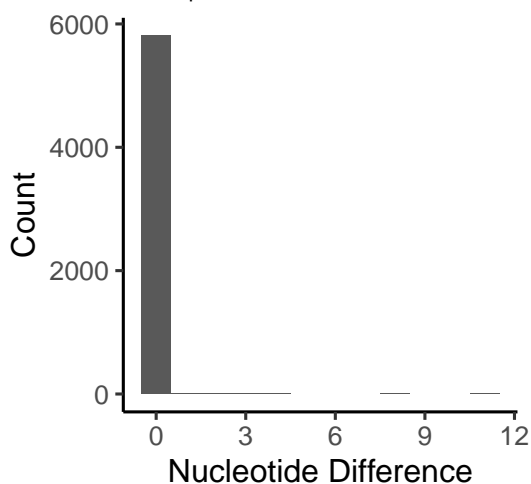
### TRBV10-1\*ap01

3103 sequences assigned  
3090 (99.6%) exact matches, in which:  
3089 unique CDR3  
13 unique J



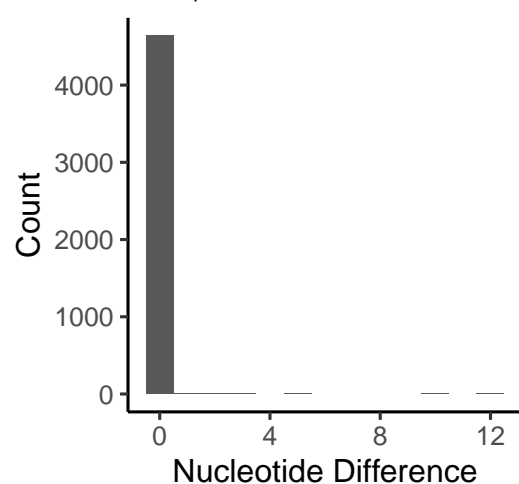
### TRBV10-3\*ap01

5827 sequences assigned  
5809 (99.7%) exact matches, in which:  
5807 unique CDR3  
13 unique J



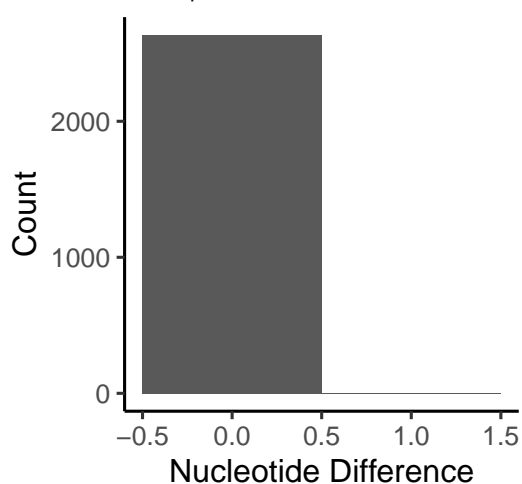
### TRBV14\*ap01

4654 sequences assigned  
4639 (99.7%) exact matches, in which:  
4631 unique CDR3  
13 unique J



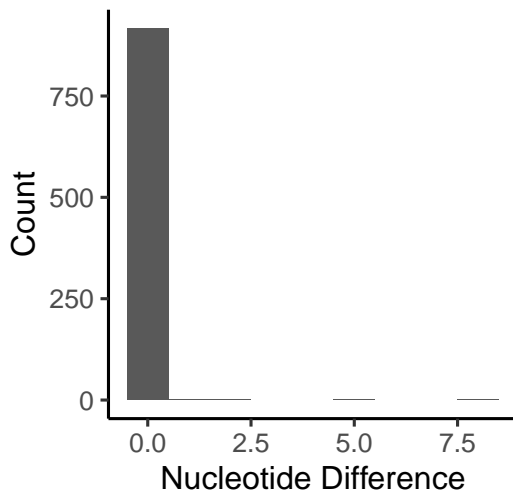
### TRBV20-1\*ap02

2638 sequences assigned  
2634 (99.8%) exact matches, in which:  
2633 unique CDR3  
13 unique J



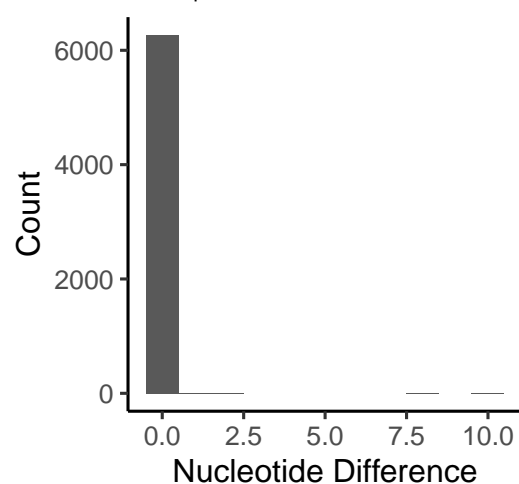
### TRBV1\*ap01

924 sequences assigned  
917 (99.2%) exact matches, in which:  
915 unique CDR3  
13 unique J



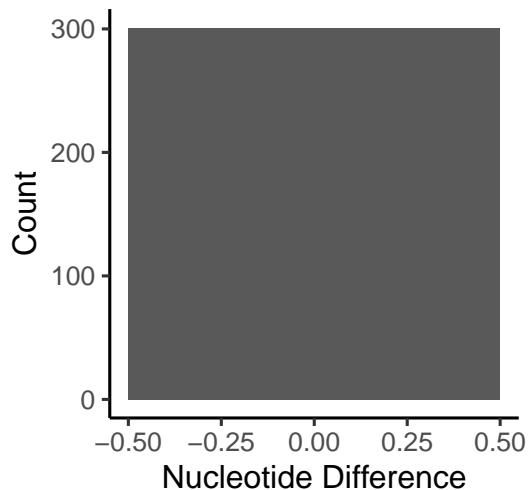
### TRBV15\*ap02

6280 sequences assigned  
6267 (99.8%) exact matches, in which:  
6256 unique CDR3  
13 unique J



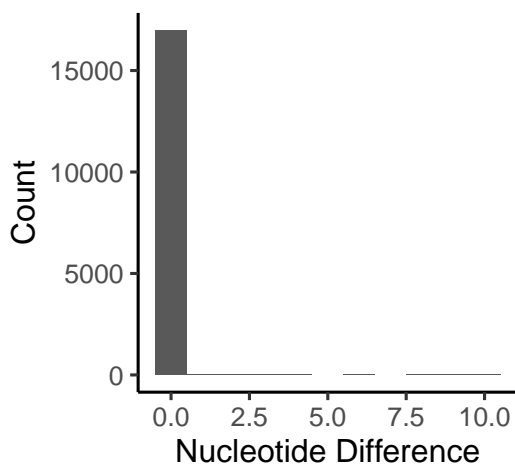
### TRBV16\*ap01

301 sequences assigned  
301 (100%) exact matches, in which:  
301 unique CDR3  
13 unique J



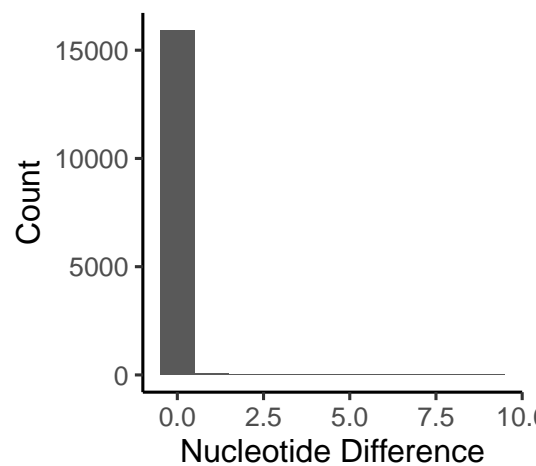
### TRBV19\*ap01

17049 sequences assigned  
16990 (99.7%) exact matches, in which:  
16988 unique CDR3  
13 unique J



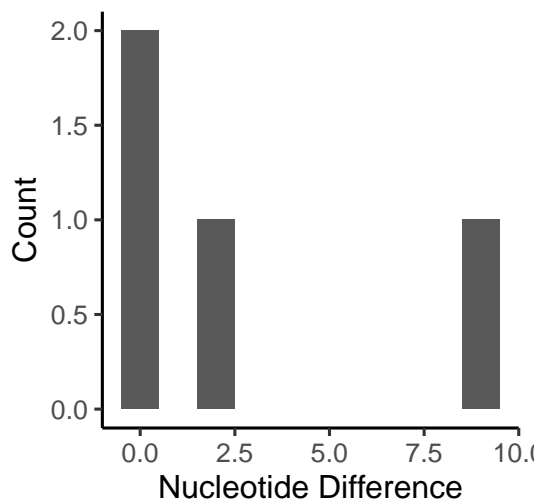
### TRBV27\*ap01

16011 sequences assigned  
15927 (99.5%) exact matches, in which:  
15897 unique CDR3  
13 unique J



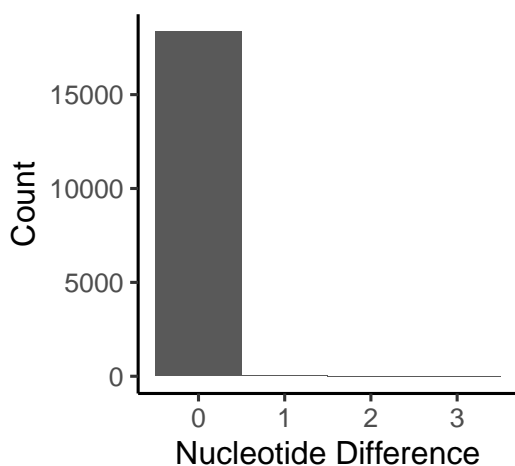
### TRBV17\*ap01

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



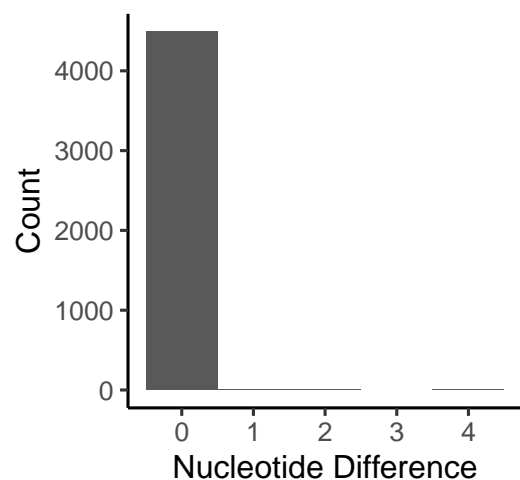
### TRBV2\*ap01

18425 sequences assigned  
18364 (99.7%) exact matches, in which:  
18328 unique CDR3  
13 unique J



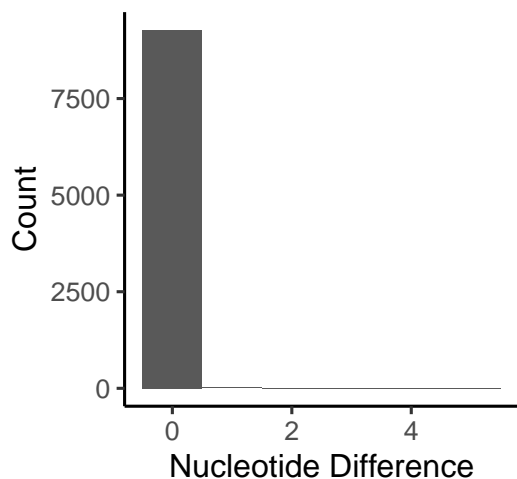
### TRBV28\*ap01

4500 sequences assigned  
4490 (99.8%) exact matches, in which:  
4490 unique CDR3  
13 unique J



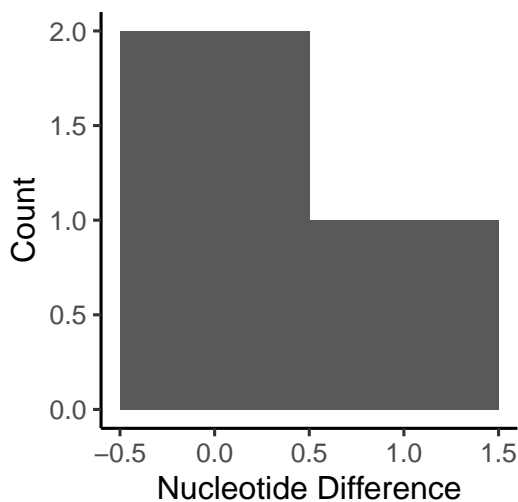
### TRBV18\*ap01

9298 sequences assigned  
9273 (99.7%) exact matches, in which:  
9270 unique CDR3  
13 unique J



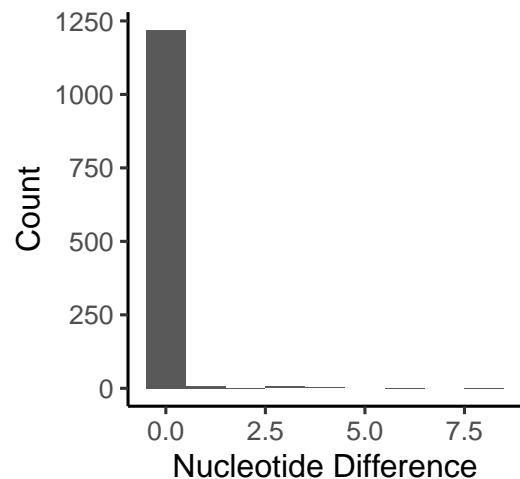
### TRBV26\*ap01

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



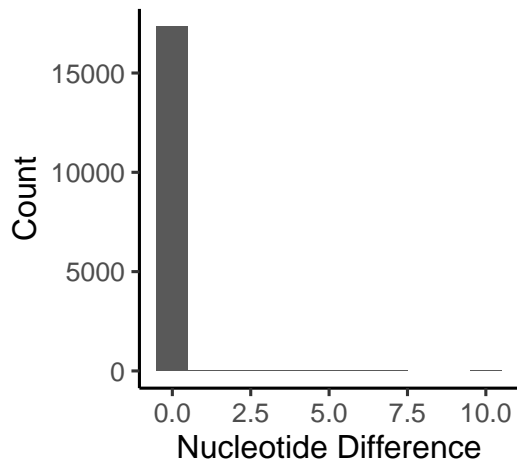
### TRBV30\*ap02

1240 sequences assigned  
1219 (98.3%) exact matches, in which:  
1219 unique CDR3  
13 unique J



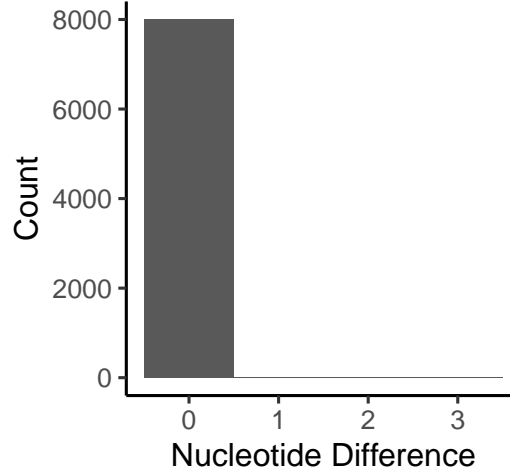
### TRBV9\*ap01

17402 sequences assigned  
17360 (99.8%) exact matches, in which:  
17339 unique CDR3  
13 unique J



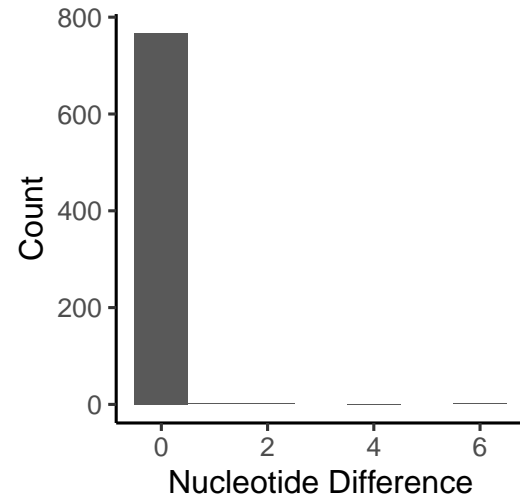
### TRBV11-2\*ap01

8014 sequences assigned  
8002 (99.9%) exact matches, in which:  
8001 unique CDR3  
13 unique J



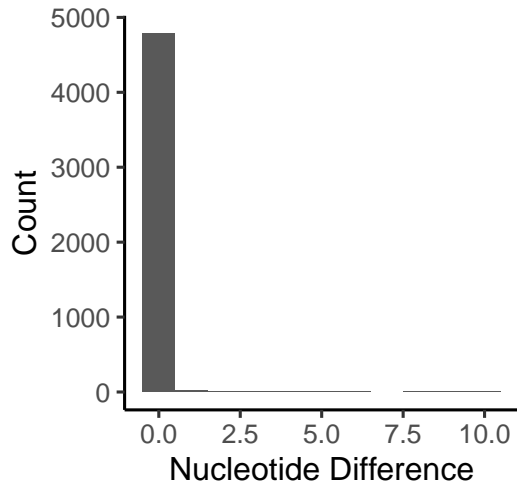
### TRBV12-2\*ap01

775 sequences assigned  
768 (99.1%) exact matches, in which:  
768 unique CDR3  
13 unique J



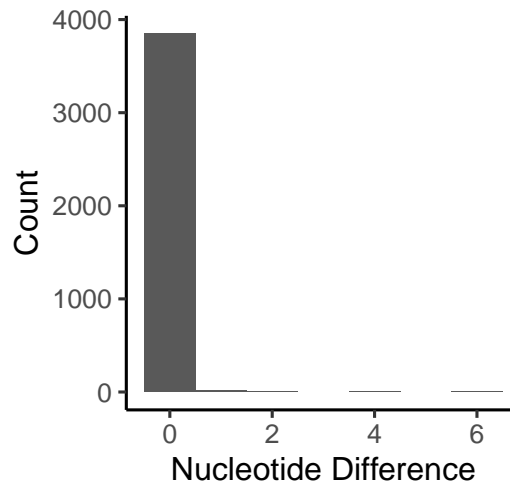
### TRBV21-1\*ap01

4838 sequences assigned  
4782 (98.8%) exact matches, in which:  
4782 unique CDR3  
13 unique J



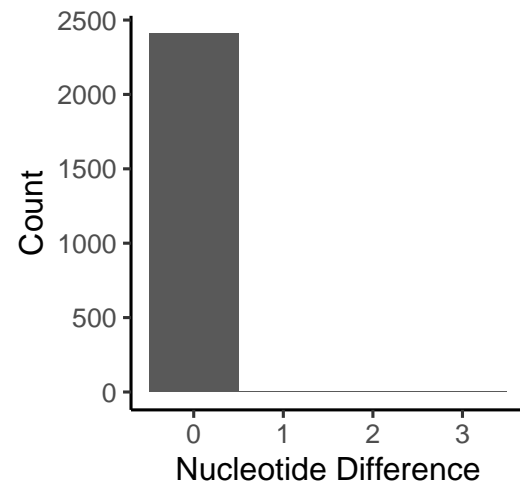
### TRBV11-3\*ap01

3871 sequences assigned  
3848 (99.4%) exact matches, in which:  
3846 unique CDR3  
13 unique J



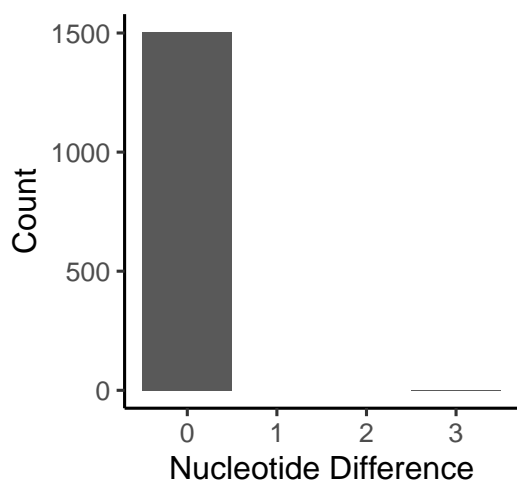
### TRBV12-5\*ap01

2413 sequences assigned  
2408 (99.8%) exact matches, in which:  
2407 unique CDR3  
13 unique J



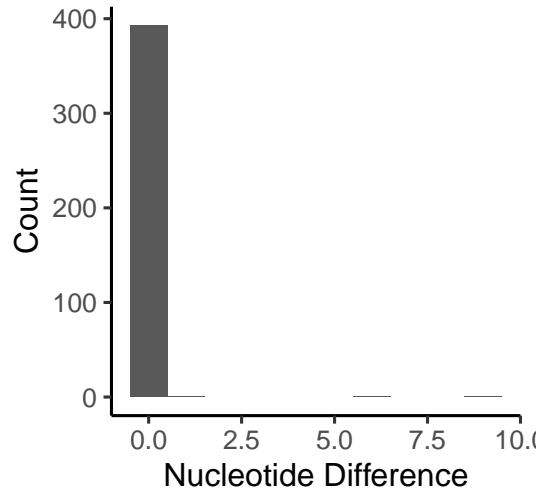
### TRBV11-1\*ap01

1505 sequences assigned  
1504 (99.9%) exact matches, in which:  
1504 unique CDR3  
13 unique J



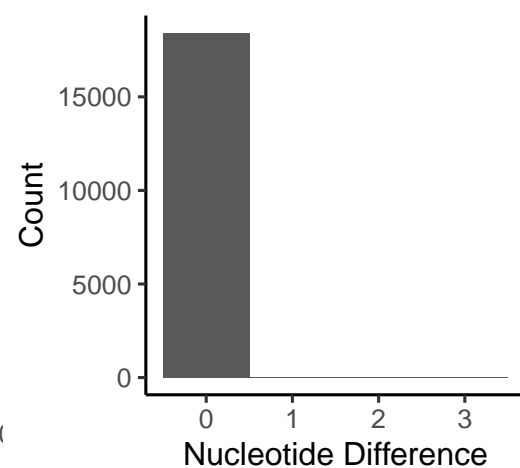
### TRBV12-1\*ap01

396 sequences assigned  
393 (99.2%) exact matches, in which:  
393 unique CDR3  
13 unique J



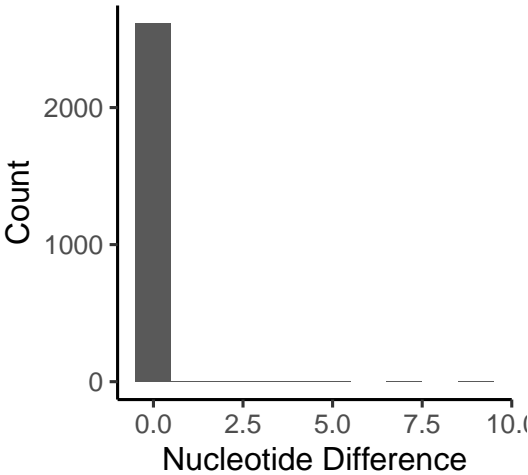
### TRBV12-34\*ap01

18466 sequences assigned  
18423 (99.8%) exact matches, in which:  
18414 unique CDR3  
13 unique J



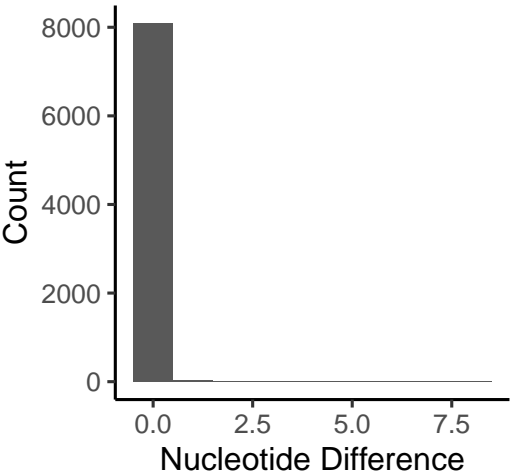
TRBV23-1\*ap01

2633 sequences assigned  
2614 (99.3%) exact matches, in which:  
2614 unique CDR3  
13 unique J



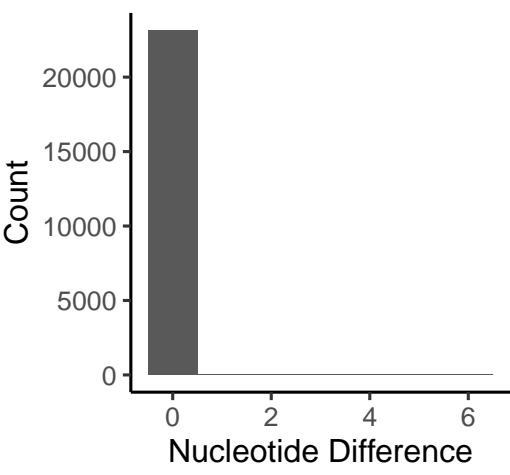
TRBV24-1\*ap01

8153 sequences assigned  
8087 (99.2%) exact matches, in which:  
8069 unique CDR3  
13 unique J



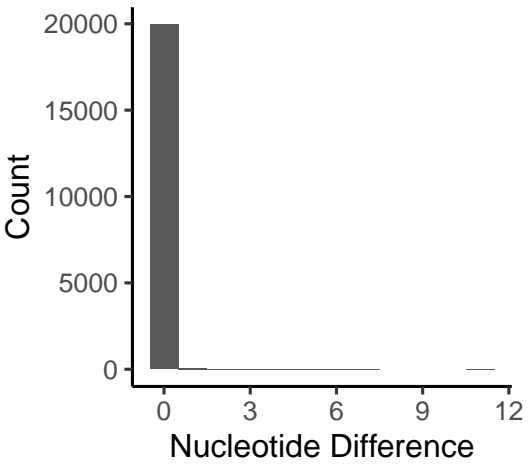
TRBV5-1\*ap01

23217 sequences assigned  
23154 (99.7%) exact matches, in which:  
23092 unique CDR3  
13 unique J



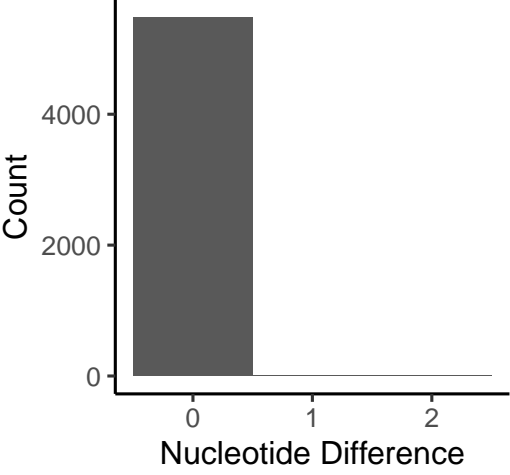
TRBV3-12\*ap01

20050 sequences assigned  
19960 (99.6%) exact matches, in which:  
19932 unique CDR3  
13 unique J



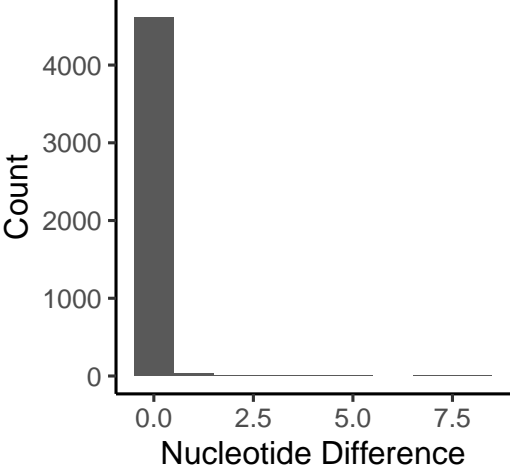
TRBV4-2\*ap01

5491 sequences assigned  
5475 (99.7%) exact matches, in which:  
5471 unique CDR3  
13 unique J



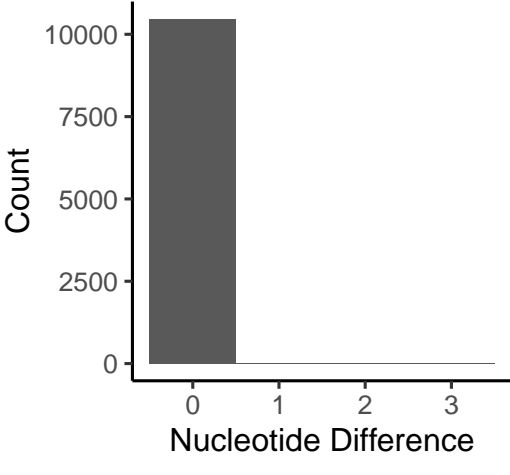
TRBV25-1\*ap01

4650 sequences assigned  
4609 (99.1%) exact matches, in which:  
4599 unique CDR3  
13 unique J



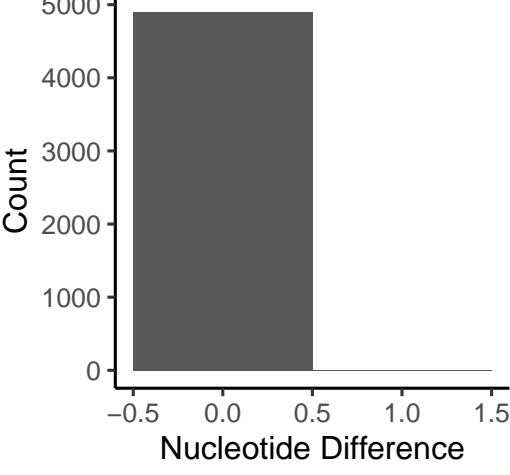
TRBV4-1\*ap01

10484 sequences assigned  
10471 (99.9%) exact matches, in which:  
10465 unique CDR3  
13 unique J



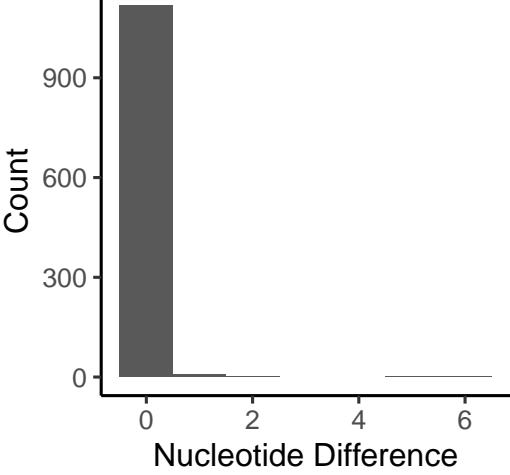
TRBV4-3\*ap01

4903 sequences assigned  
4899 (99.9%) exact matches, in which:  
4896 unique CDR3  
13 unique J



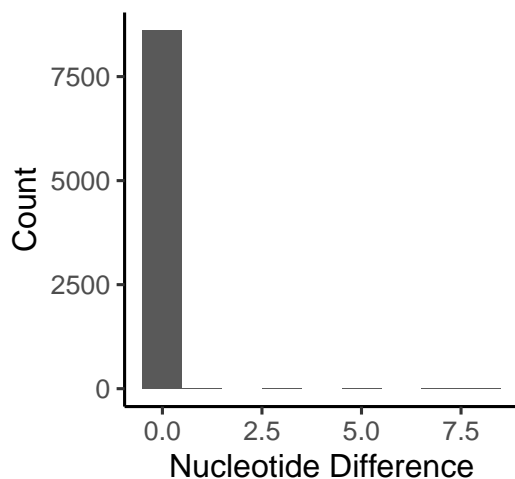
TRBV5-3\*ap01

1129 sequences assigned  
1118 (99%) exact matches, in which:  
1117 unique CDR3  
13 unique J



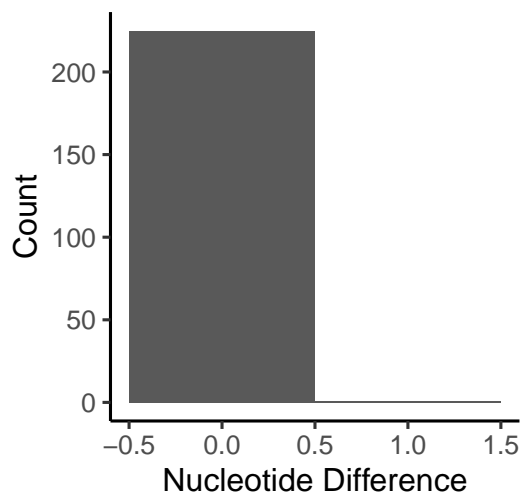
### TRBV5-4\*ap01

8636 sequences assigned  
8610 (99.7%) exact matches, in which:  
8610 unique CDR3  
13 unique J



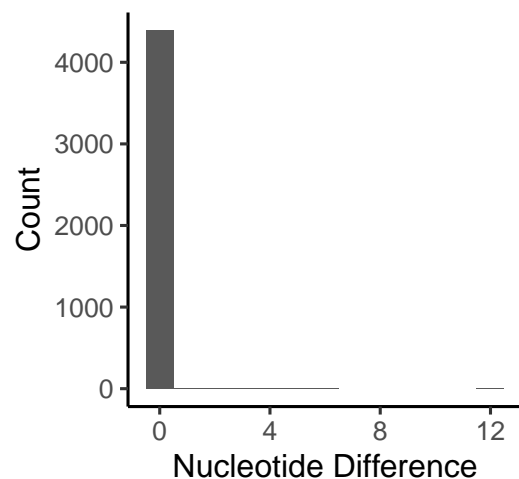
### TRBV5-7\*ap01

226 sequences assigned  
225 (99.6%) exact matches, in which:  
223 unique CDR3  
13 unique J



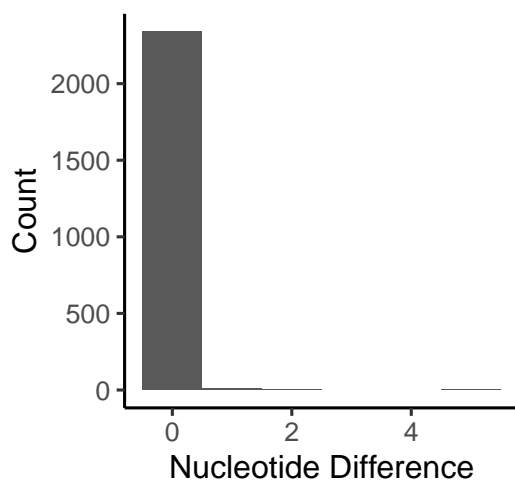
### TRBV6-4\*ap01

4414 sequences assigned  
4391 (99.5%) exact matches, in which:  
4390 unique CDR3  
13 unique J



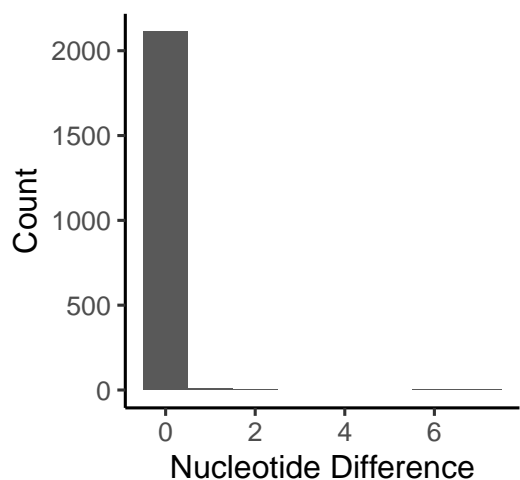
### TRBV5-5\*ap01

2350 sequences assigned  
2339 (99.5%) exact matches, in which:  
2336 unique CDR3  
13 unique J



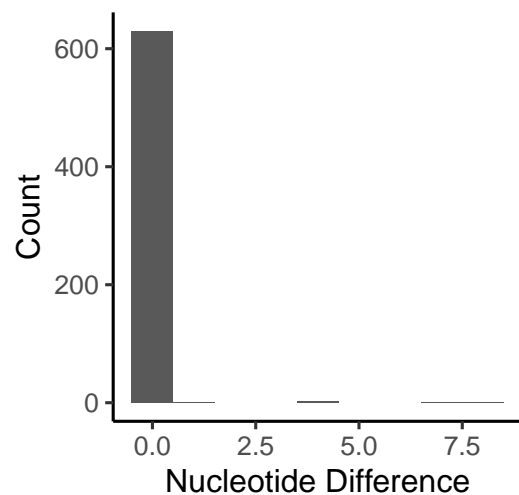
### TRBV5-8\*ap01

2122 sequences assigned  
2112 (99.5%) exact matches, in which:  
2112 unique CDR3  
13 unique J



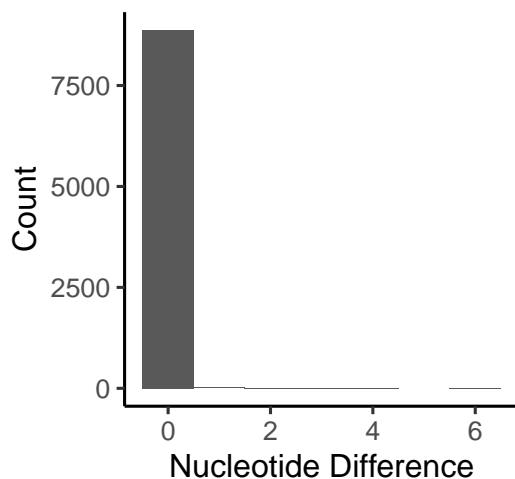
### TRBV6-7\*ap01

635 sequences assigned  
630 (99.2%) exact matches, in which:  
629 unique CDR3  
13 unique J



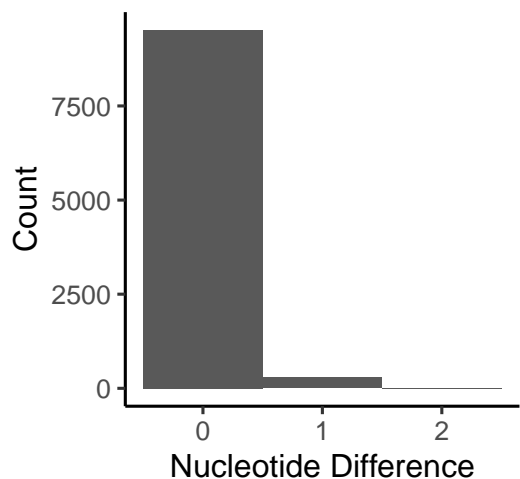
### TRBV5-6\*ap01

8896 sequences assigned  
8874 (99.8%) exact matches, in which:  
8852 unique CDR3  
13 unique J



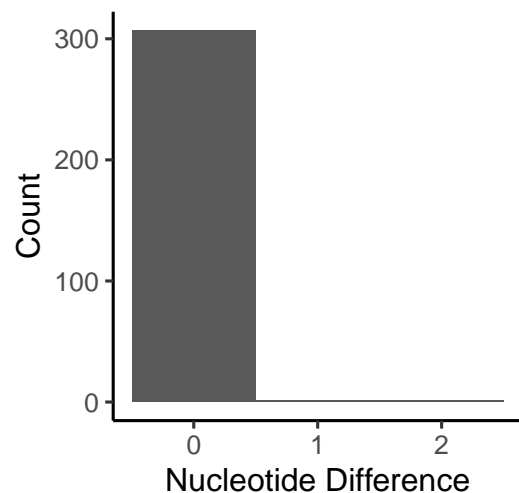
### TRBV6-1\*ap01

9804 sequences assigned  
9516 (97.1%) exact matches, in which:  
9511 unique CDR3  
14 unique J



### TRBV6-8\*ap01

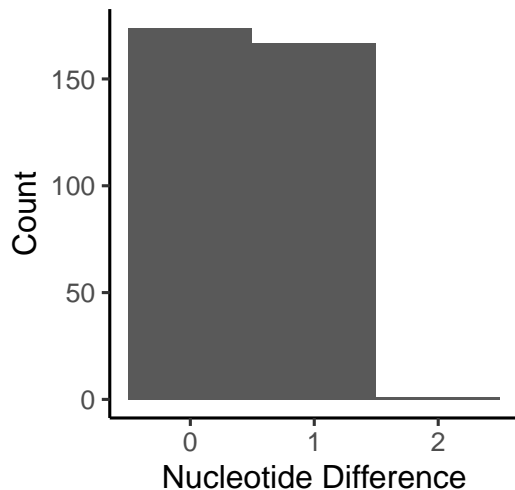
309 sequences assigned  
307 (99.4%) exact matches, in which:  
307 unique CDR3  
13 unique J





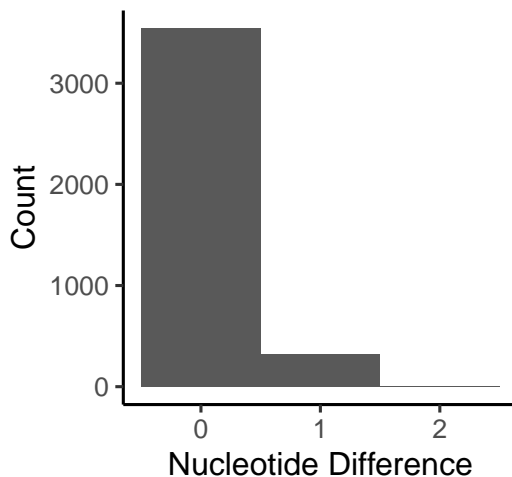
### TRBV6–9\*ap01

342 sequences assigned  
174 (50.9%) exact matches, in which:  
173 unique CDR3  
13 unique J



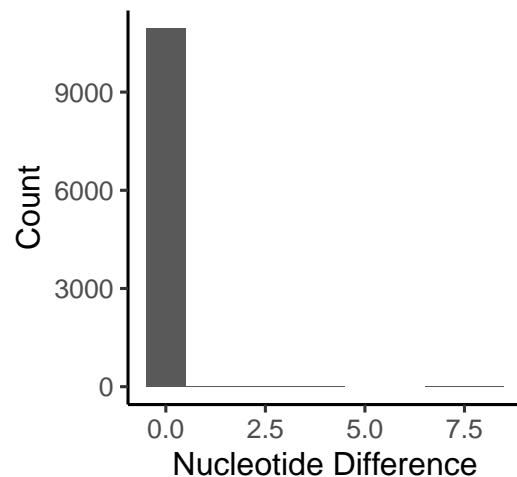
### TRBV6–56\*ap02

3868 sequences assigned  
3542 (91.6%) exact matches, in which:  
3540 unique CDR3  
13 unique J



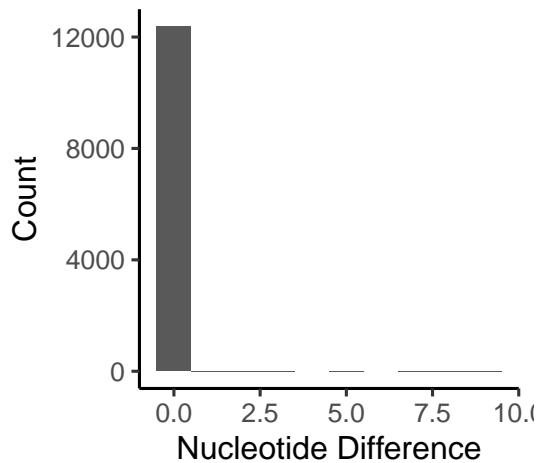
### TRBV7–2\*ap01

10964 sequences assigned  
10946 (99.8%) exact matches, in which:  
10945 unique CDR3  
13 unique J



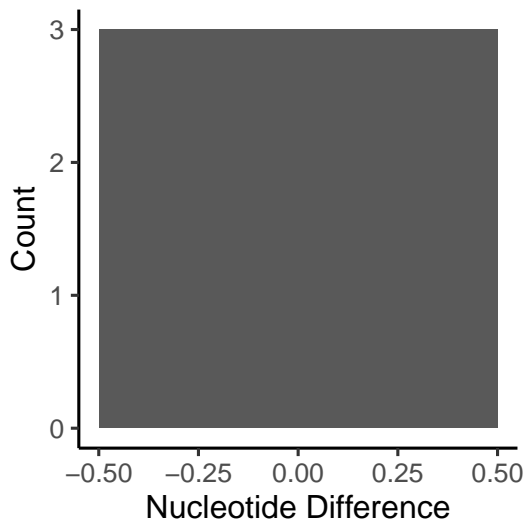
### TRBV6–23\*ap01

12422 sequences assigned  
12379 (99.7%) exact matches, in which:  
12362 unique CDR3  
13 unique J



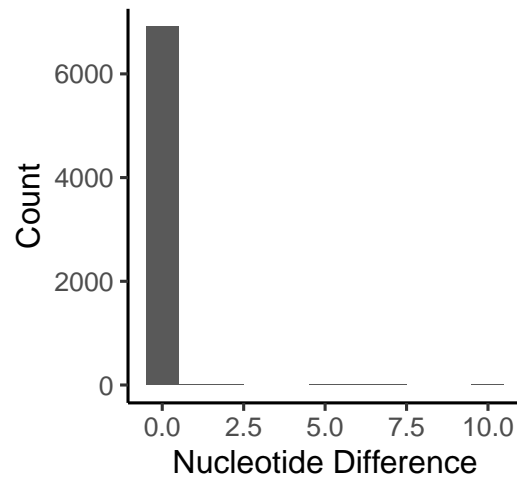
### TRBV7–1\*ap01

3 sequences assigned  
3 (100%) exact matches, in which:  
3 unique CDR3  
3 unique J



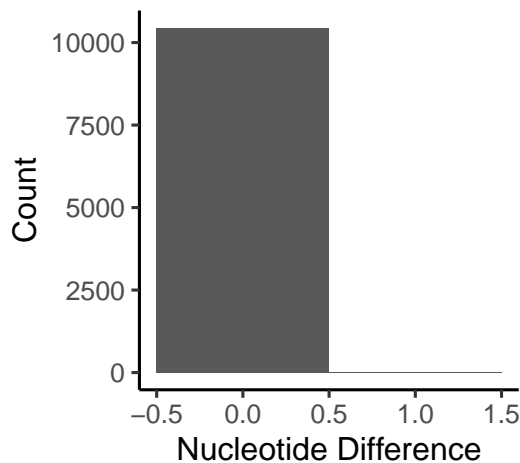
### TRBV7–3\*ap01

6939 sequences assigned  
6909 (99.6%) exact matches, in which:  
6903 unique CDR3  
14 unique J



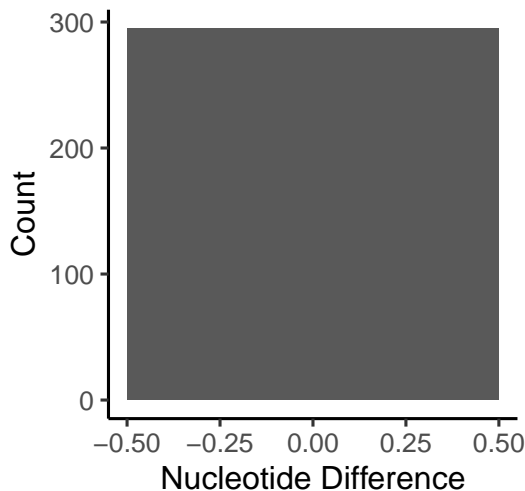
### TRBV6–56\*ap01

10462 sequences assigned  
10448 (99.9%) exact matches, in which:  
10442 unique CDR3  
13 unique J



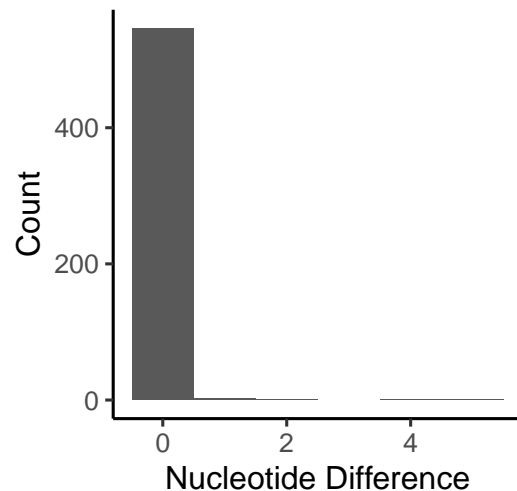
### TRBV7–1\*ap01\_G291C\_

295 sequences assigned  
295 (100%) exact matches, in which:  
295 unique CDR3  
13 unique J



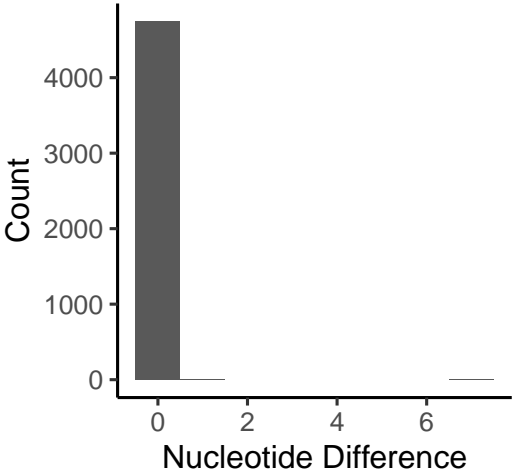
### TRBV7–4\*ap01

551 sequences assigned  
546 (99.1%) exact matches, in which:  
546 unique CDR3  
13 unique J



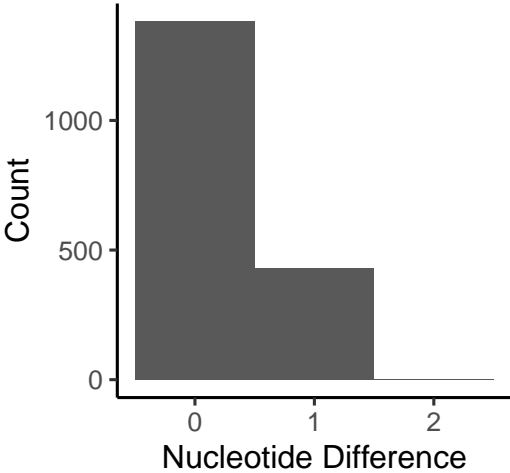
TRBV7-6\*ap01

4750 sequences assigned  
4745 (99.9%) exact matches, in which:  
4741 unique CDR3  
13 unique J



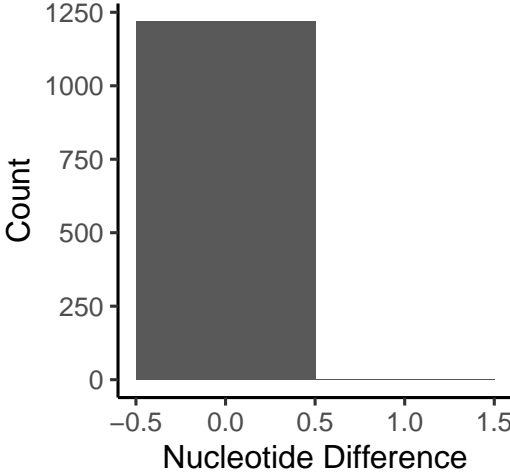
TRBV7-8\*ap03

1812 sequences assigned  
1382 (76.3%) exact matches, in which:  
1382 unique CDR3  
13 unique J



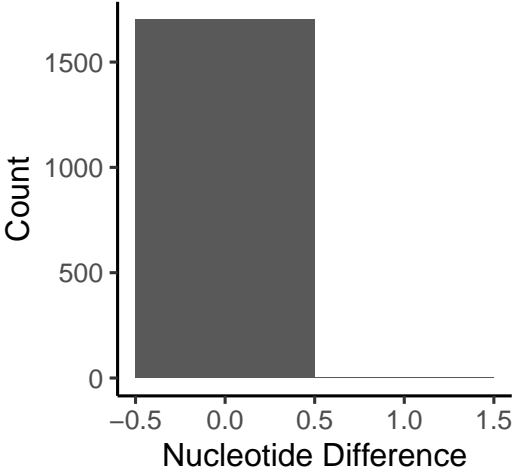
TRBV29-1\*ap02

1222 sequences assigned  
1219 (99.8%) exact matches, in which:  
1216 unique CDR3  
13 unique J



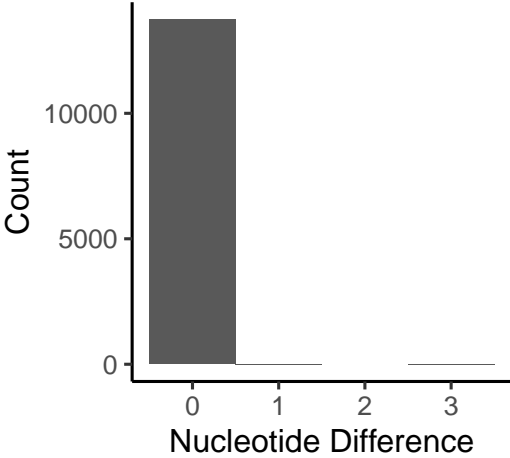
TRBV7-7\*ap01

1705 sequences assigned  
1701 (99.8%) exact matches, in which:  
1701 unique CDR3  
13 unique J



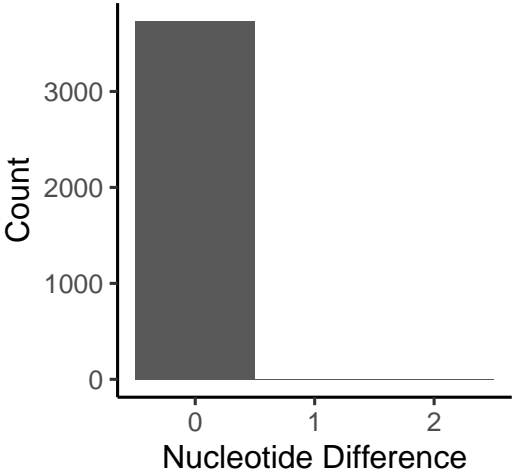
TRBV7-9\*ap01

13760 sequences assigned  
13740 (99.9%) exact matches, in which:  
13737 unique CDR3  
13 unique J



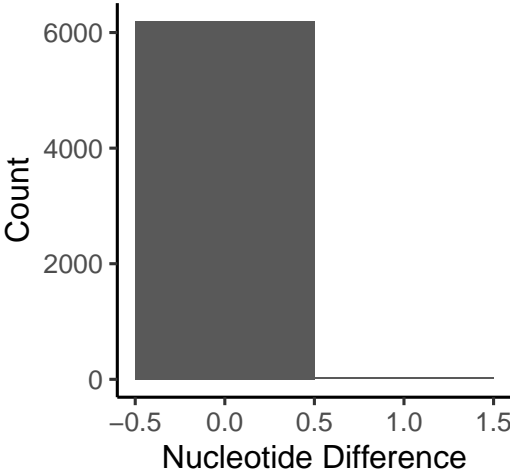
TRBV7-8\*ap01

3742 sequences assigned  
3734 (99.8%) exact matches, in which:  
3734 unique CDR3  
13 unique J



TRBV29-1\*ap01

6230 sequences assigned  
6199 (99.5%) exact matches, in which:  
6186 unique CDR3  
13 unique J



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