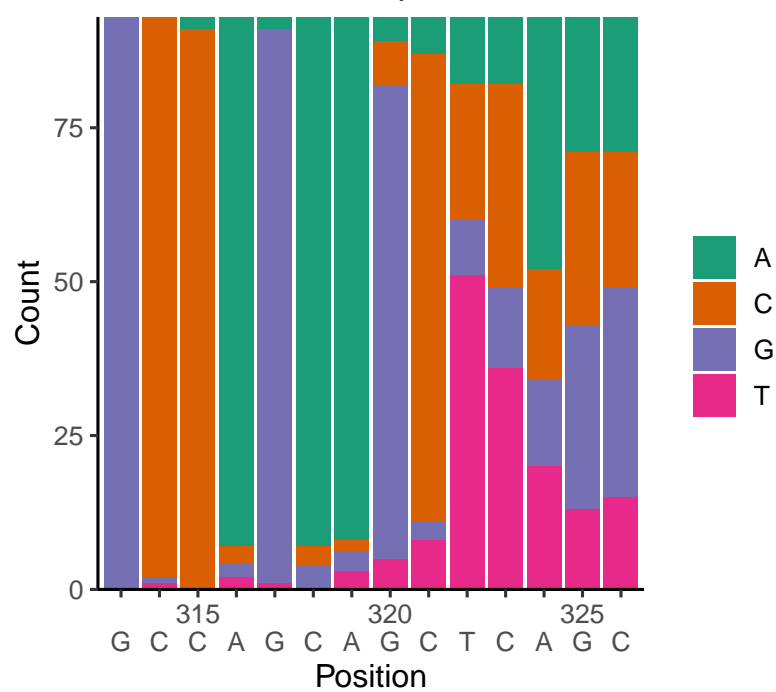
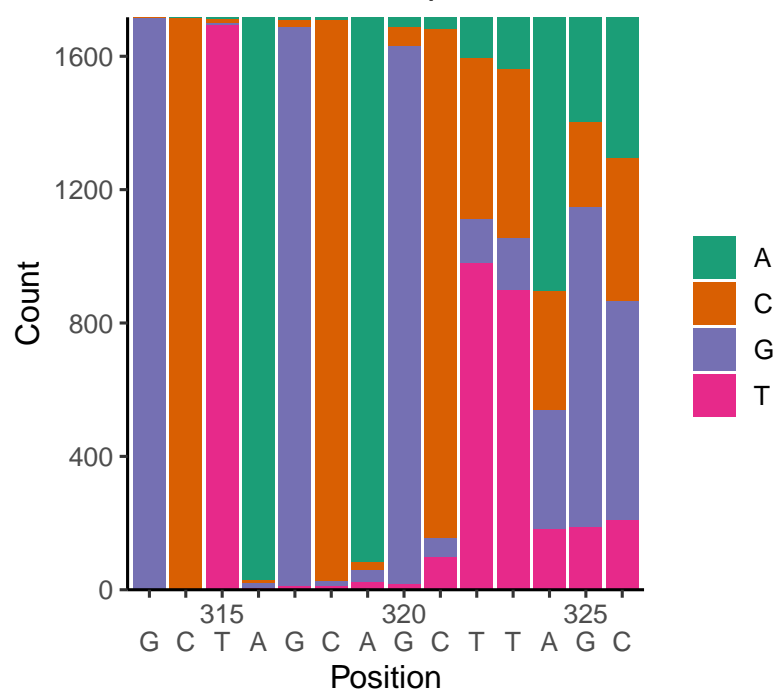


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



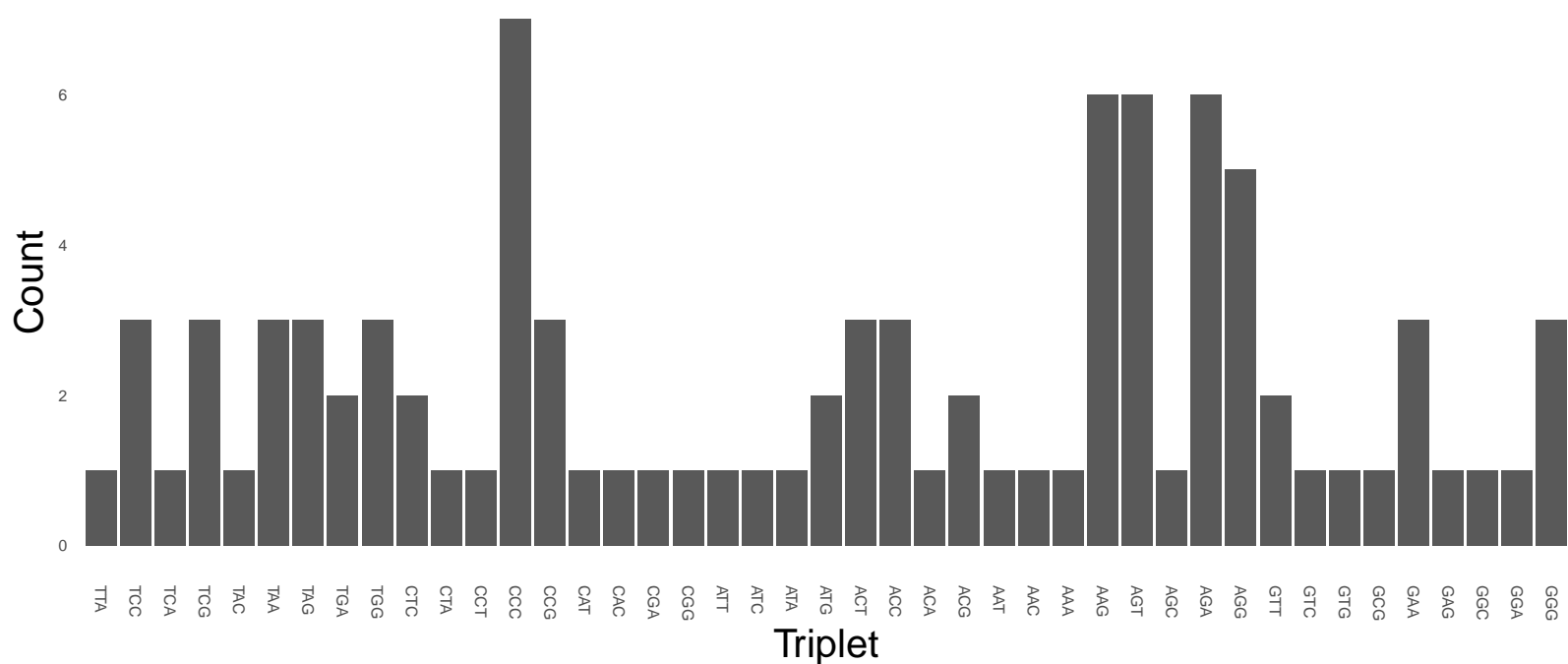
Gene TRBV7-1\*ap01\_G291C\_T296C



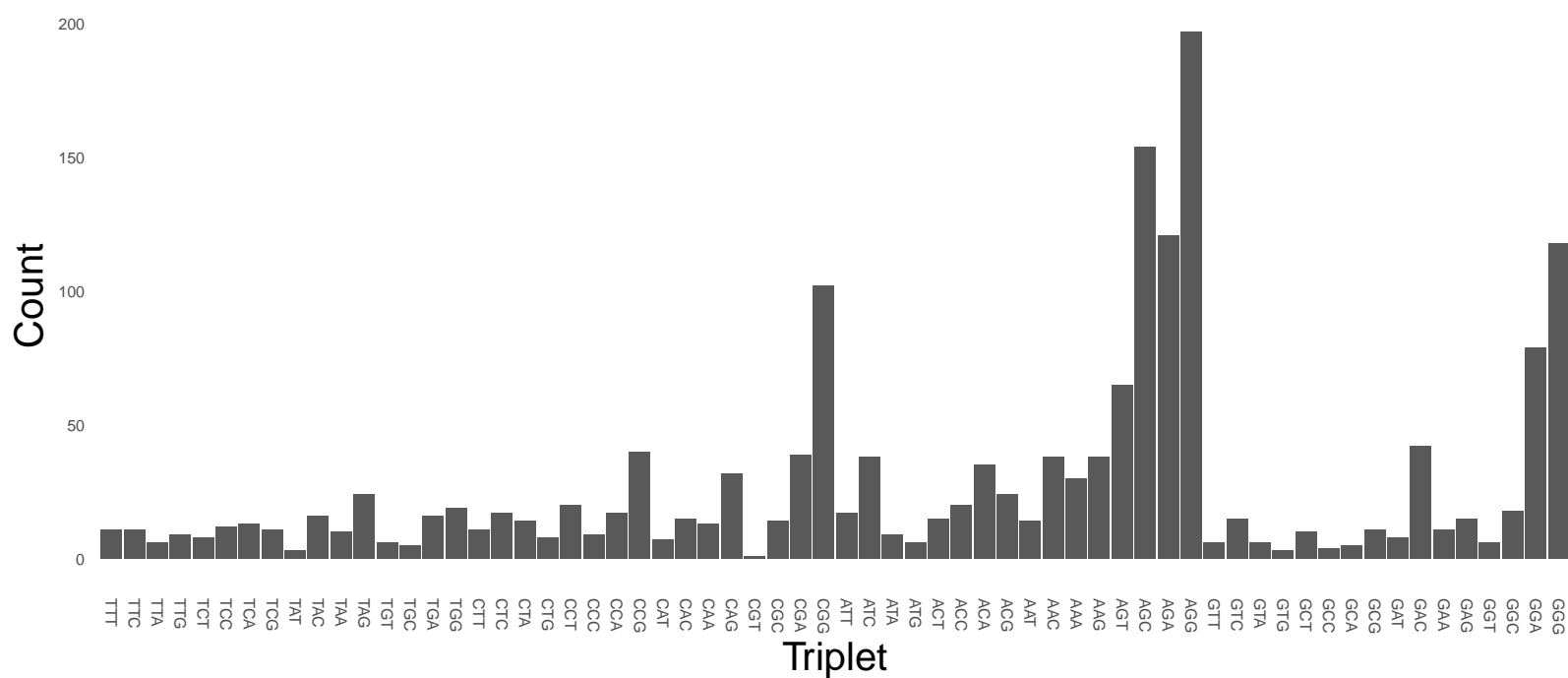
Gene TRBV7-7\*ap01\_C315T



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

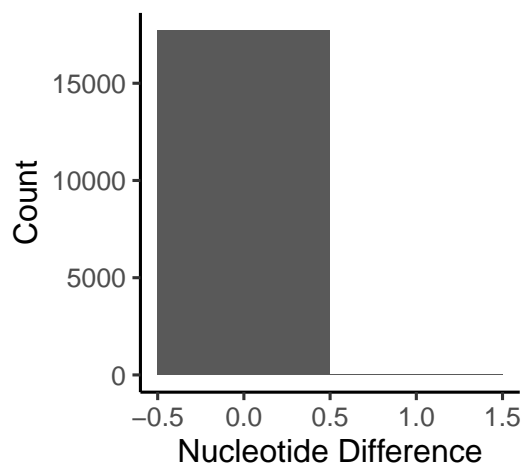


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



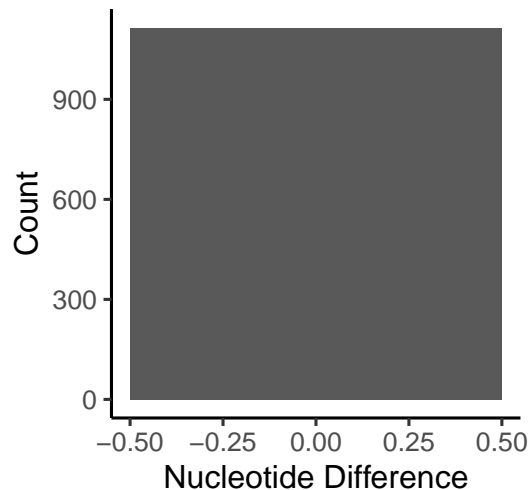
### TRBV20-1\*ap01

17747 sequences assigned  
17730 (99.9%) exact matches, in which:  
17727 unique CDR3  
12 unique J



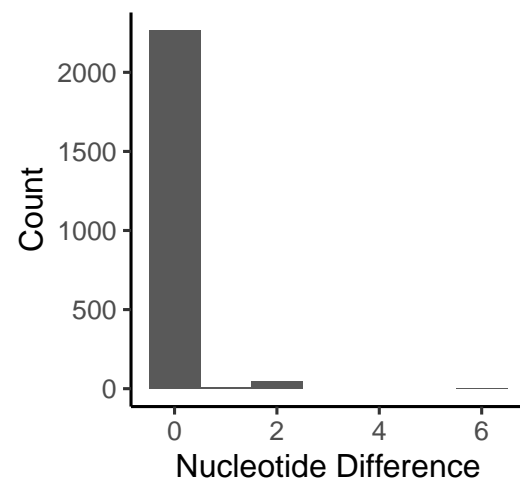
### TRBV10-2\*ap01

1115 sequences assigned  
1115 (100%) exact matches, in which:  
1114 unique CDR3  
12 unique J



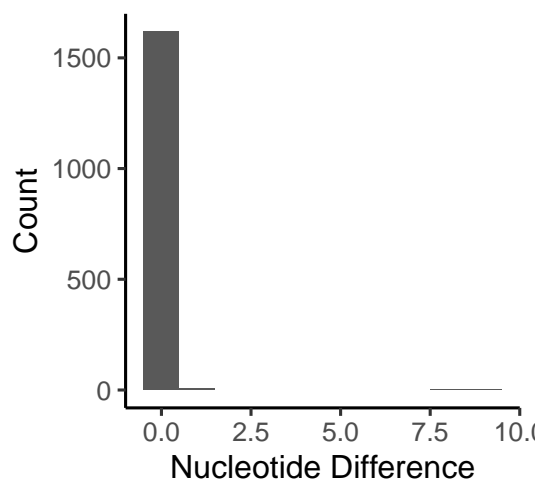
### TRBV13\*ap01

2325 sequences assigned  
2265 (97.4%) exact matches, in which:  
2265 unique CDR3  
12 unique J



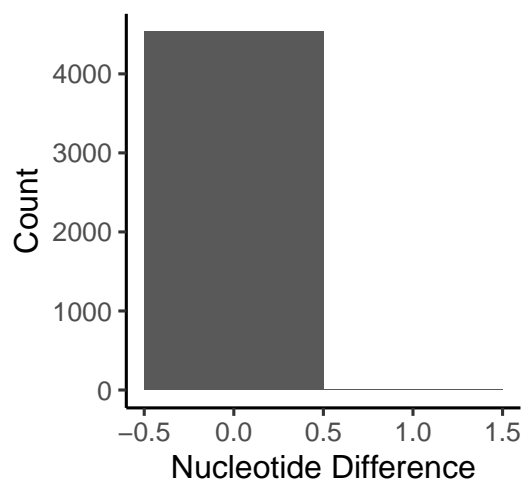
### TRBV10-1\*ap01

1627 sequences assigned  
1618 (99.4%) exact matches, in which:  
1618 unique CDR3  
12 unique J



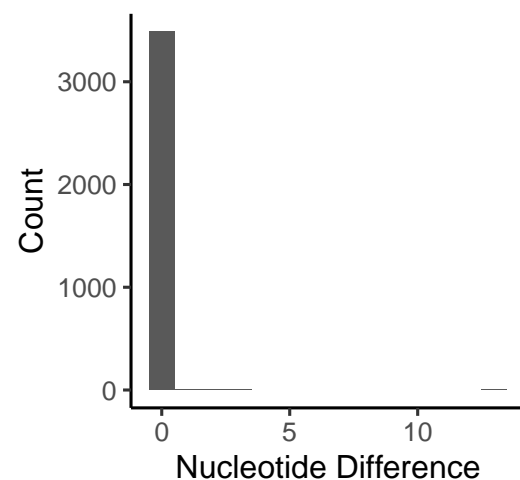
### TRBV10-3\*ap01

4542 sequences assigned  
4533 (99.8%) exact matches, in which:  
4531 unique CDR3  
12 unique J



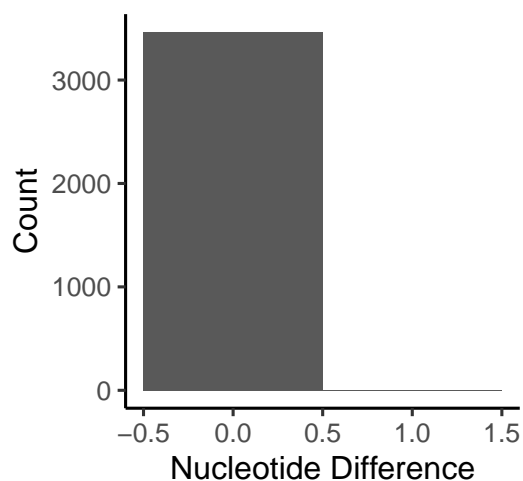
### TRBV14\*ap01

3493 sequences assigned  
3487 (99.8%) exact matches, in which:  
3486 unique CDR3  
12 unique J



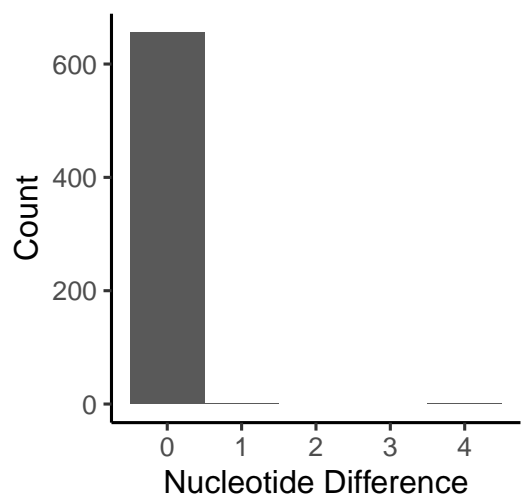
### TRBV20-1\*ap02

3467 sequences assigned  
3464 (99.9%) exact matches, in which:  
3464 unique CDR3  
12 unique J



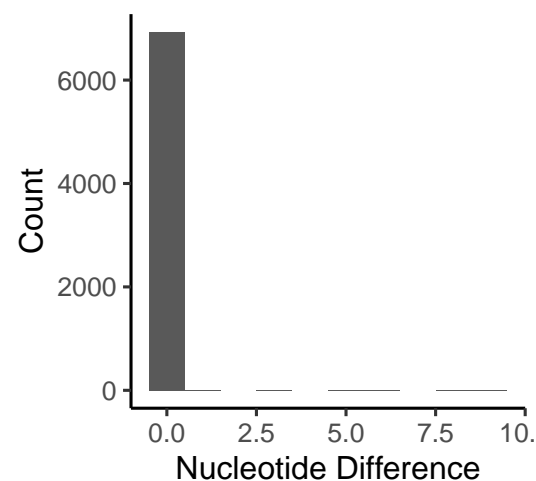
### TRBV1\*ap01

658 sequences assigned  
656 (99.7%) exact matches, in which:  
656 unique CDR3  
12 unique J



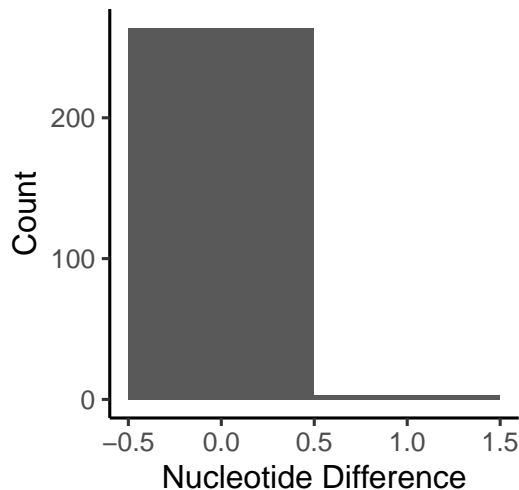
### TRBV15\*ap02

6942 sequences assigned  
6929 (99.8%) exact matches, in which:  
6925 unique CDR3  
12 unique J



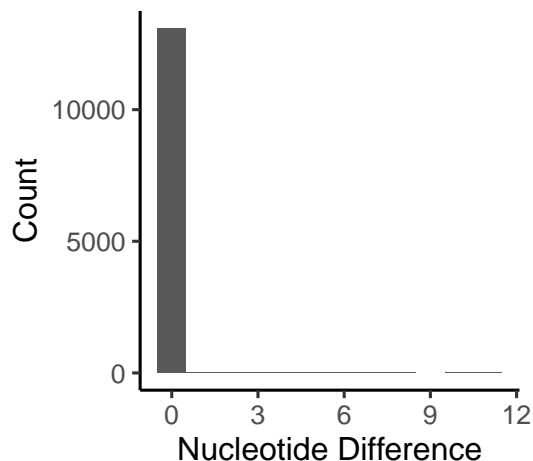
### TRBV16\*ap01

267 sequences assigned  
264 (98.9%) exact matches, in which:  
264 unique CDR3  
12 unique J



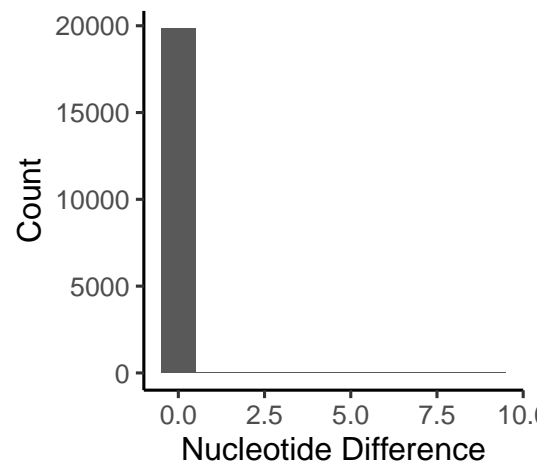
### TRBV19\*ap01

13131 sequences assigned  
13095 (99.7%) exact matches, in which:  
13095 unique CDR3  
12 unique J



### TRBV27\*ap01

19928 sequences assigned  
19862 (99.7%) exact matches, in which:  
19843 unique CDR3  
13 unique J



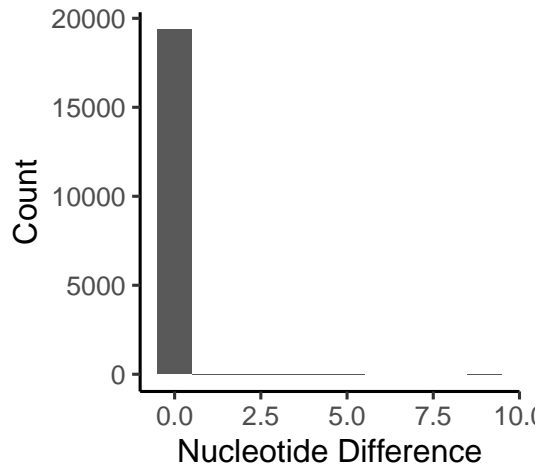
### TRBV17\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
1 unique J



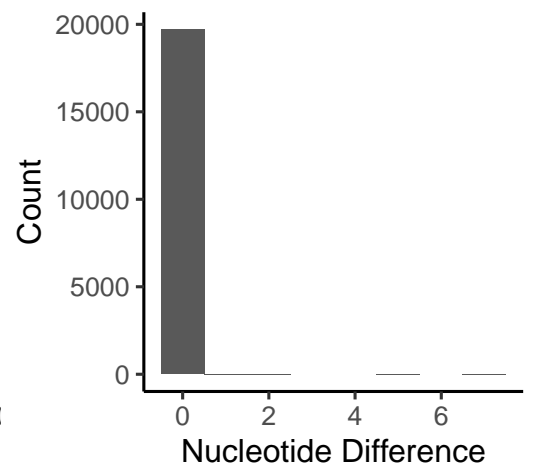
### TRBV2\*ap01

19413 sequences assigned  
19373 (99.8%) exact matches, in which:  
19362 unique CDR3  
13 unique J



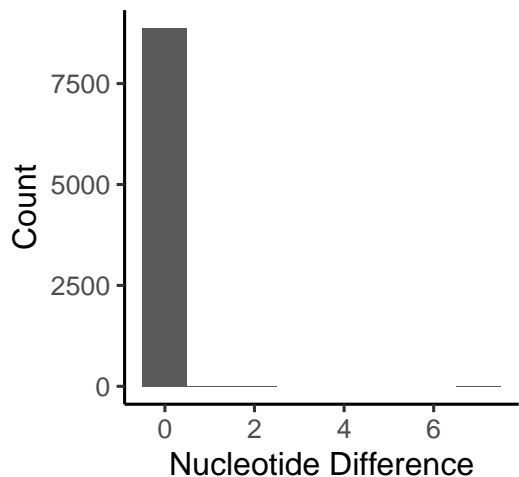
### TRBV28\*ap01

19737 sequences assigned  
19706 (99.8%) exact matches, in which:  
19705 unique CDR3  
12 unique J



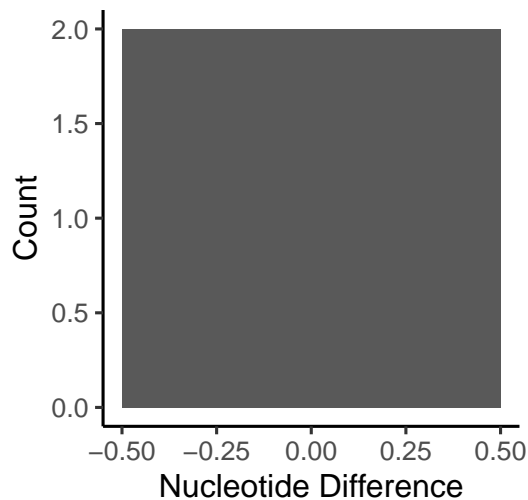
### TRBV18\*ap01

8886 sequences assigned  
8876 (99.9%) exact matches, in which:  
8875 unique CDR3  
12 unique J



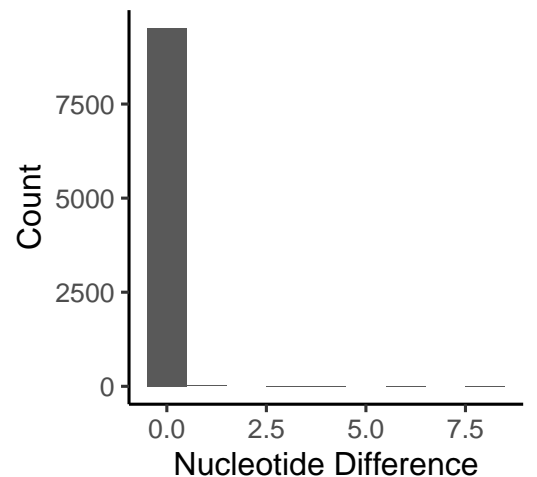
### TRBV26\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
1 unique J



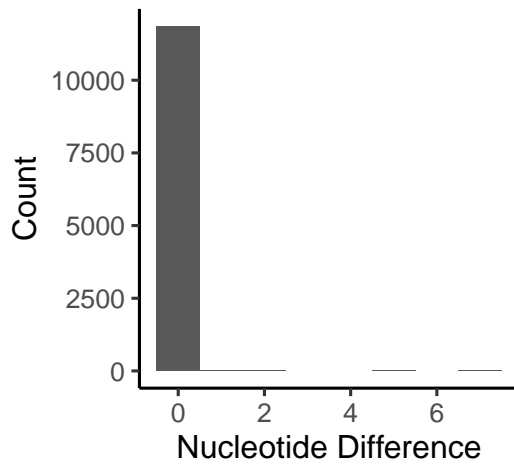
### TRBV30\*ap02

9550 sequences assigned  
9519 (99.7%) exact matches, in which:  
9514 unique CDR3  
14 unique J



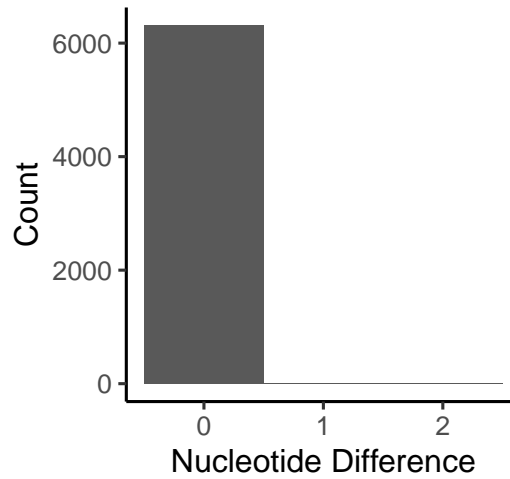
### TRBV9\*ap01

11879 sequences assigned  
11860 (99.8%) exact matches, in which:  
11855 unique CDR3  
13 unique J



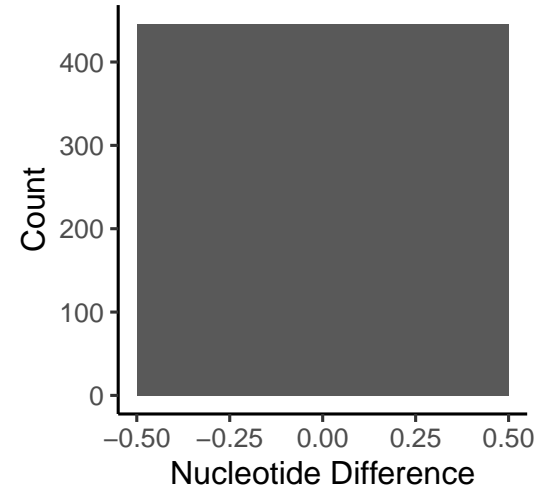
### TRBV11-2\*ap01

6321 sequences assigned  
6312 (99.9%) exact matches, in which:  
6312 unique CDR3  
13 unique J



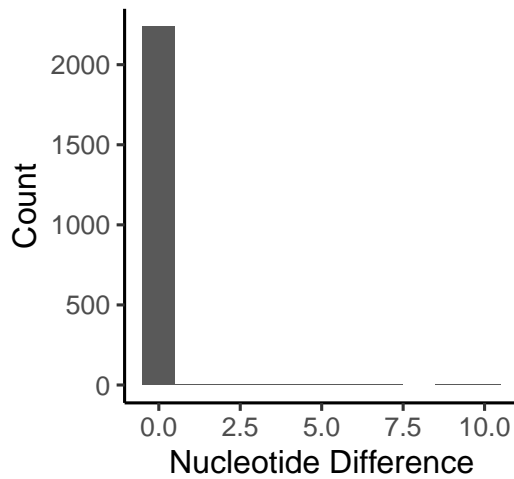
### TRBV12-2\*ap01

446 sequences assigned  
446 (100%) exact matches, in which:  
446 unique CDR3  
12 unique J



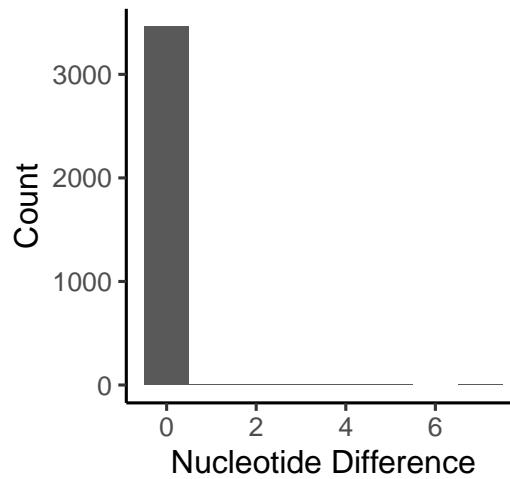
### TRBV21-1\*ap01

2266 sequences assigned  
2237 (98.7%) exact matches, in which:  
2237 unique CDR3  
12 unique J



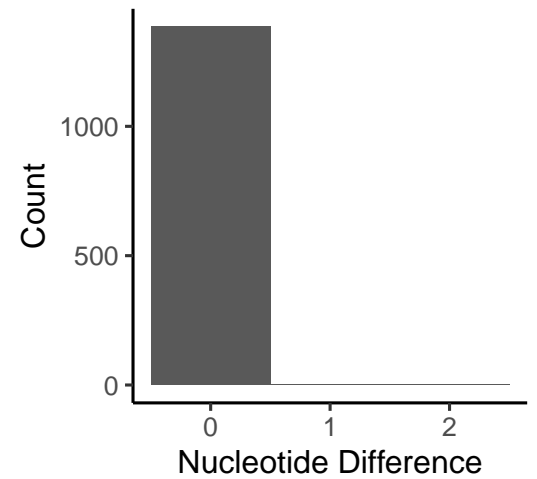
### TRBV11-3\*ap01

3475 sequences assigned  
3460 (99.6%) exact matches, in which:  
3458 unique CDR3  
12 unique J



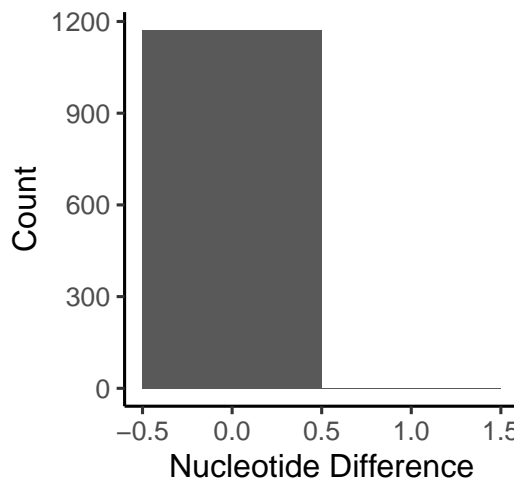
### TRBV12-5\*ap01

1389 sequences assigned  
1385 (99.7%) exact matches, in which:  
1385 unique CDR3  
12 unique J



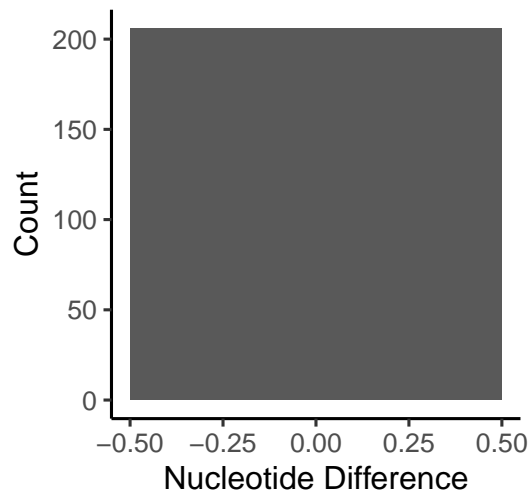
### TRBV11-1\*ap01

1173 sequences assigned  
1172 (99.9%) exact matches, in which:  
1171 unique CDR3  
12 unique J



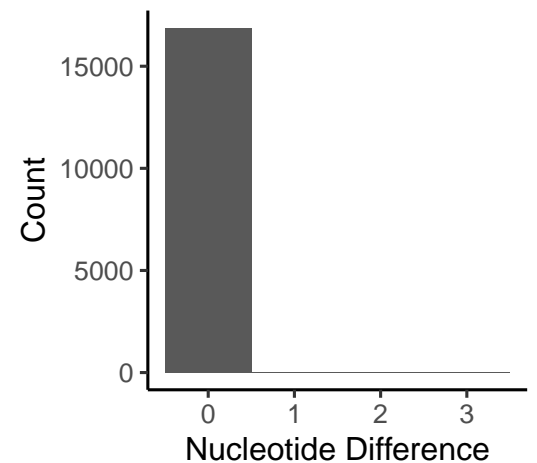
### TRBV12-1\*ap01

206 sequences assigned  
206 (100%) exact matches, in which:  
206 unique CDR3  
12 unique J



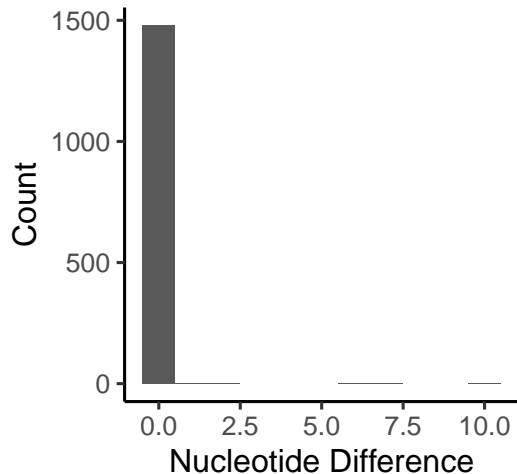
### TRBV12-34\*ap01

16916 sequences assigned  
16882 (99.8%) exact matches, in which:  
16879 unique CDR3  
12 unique J



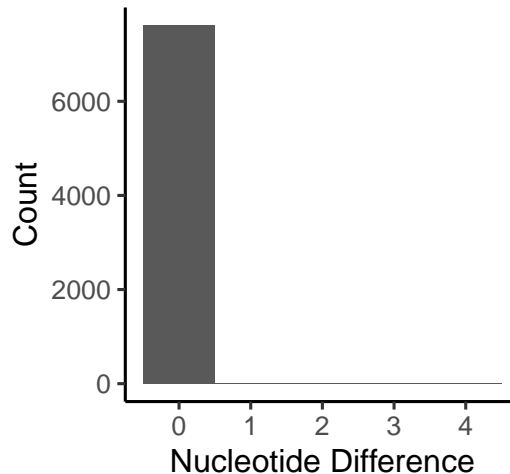
### TRBV23-1\*ap01

1487 sequences assigned  
1479 (99.5%) exact matches, in which:  
1479 unique CDR3  
12 unique J



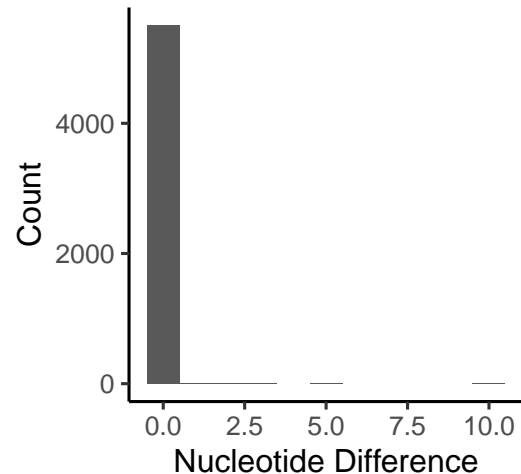
### TRBV24-1\*ap01

7630 sequences assigned  
7613 (99.8%) exact matches, in which:  
7607 unique CDR3  
12 unique J



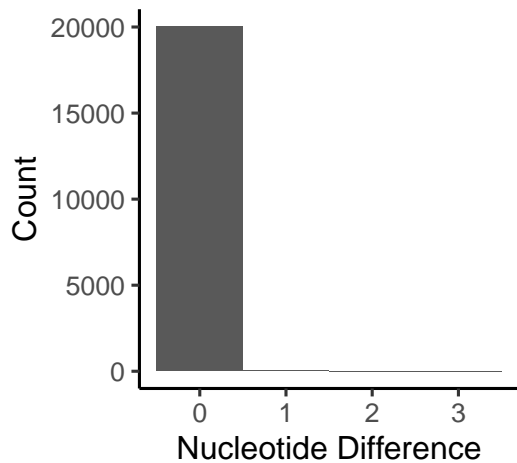
### TRBV25-1\*ap01

5527 sequences assigned  
5504 (99.6%) exact matches, in which:  
5500 unique CDR3  
12 unique J



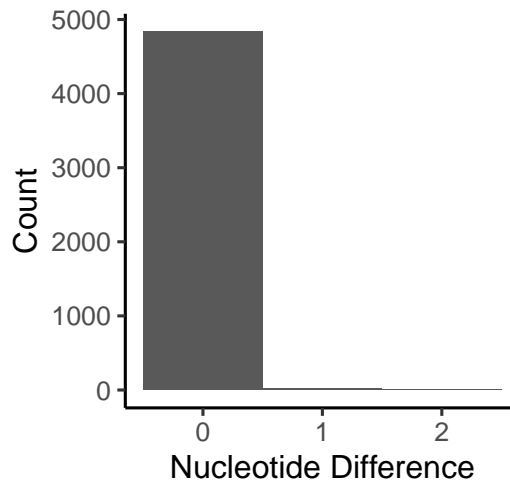
### TRBV3-12\*ap01

20069 sequences assigned  
20032 (99.8%) exact matches, in which:  
20010 unique CDR3  
13 unique J



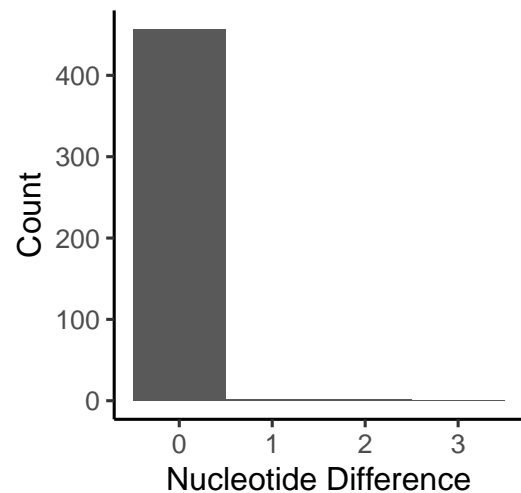
### TRBV4-2\*ap01

4855 sequences assigned  
4835 (99.6%) exact matches, in which:  
4834 unique CDR3  
12 unique J



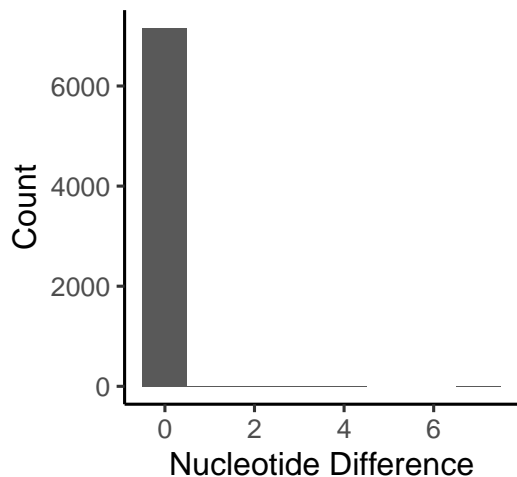
### TRBV5-3\*ap01

462 sequences assigned  
457 (98.9%) exact matches, in which:  
457 unique CDR3  
12 unique J



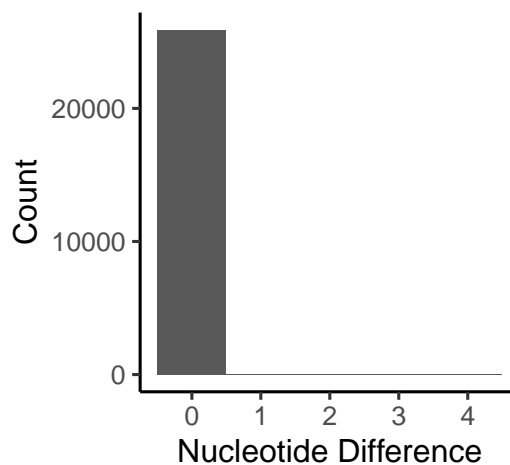
### TRBV4-1\*ap01

7172 sequences assigned  
7158 (99.8%) exact matches, in which:  
7154 unique CDR3  
12 unique J



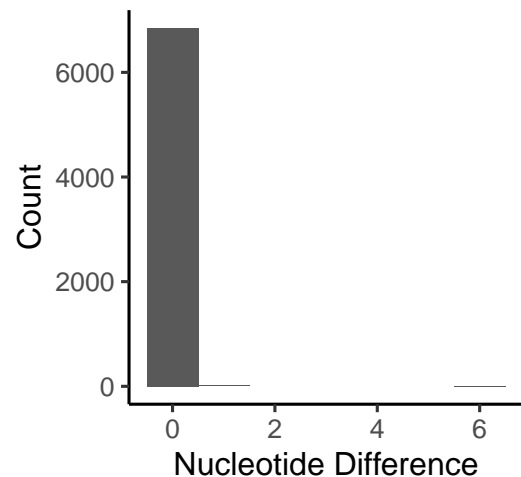
### TRBV5-1\*ap01

25934 sequences assigned  
25905 (99.9%) exact matches, in which:  
25887 unique CDR3  
13 unique J



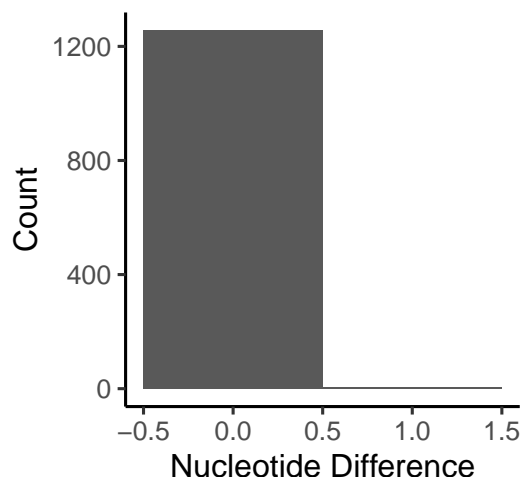
### TRBV5-4\*ap01

6862 sequences assigned  
6847 (99.8%) exact matches, in which:  
6845 unique CDR3  
12 unique J



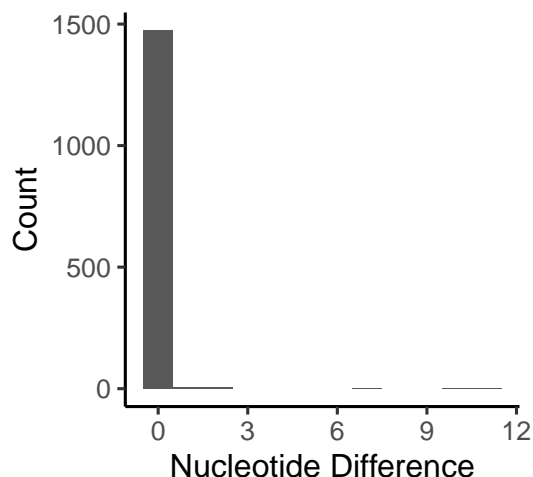
### TRBV5-5\*ap01

1263 sequences assigned  
1256 (99.4%) exact matches, in which:  
1253 unique CDR3  
12 unique J



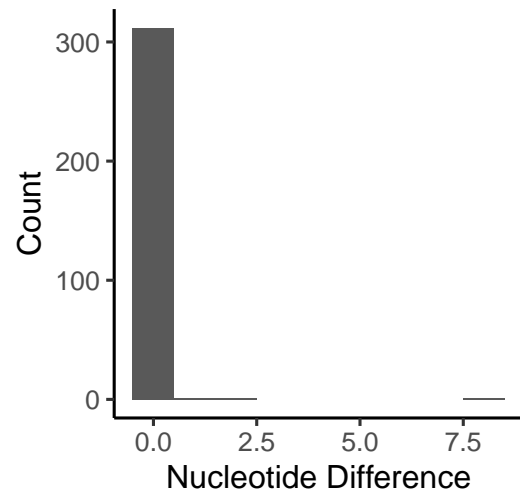
### TRBV5-8\*ap01

1489 sequences assigned  
1474 (99%) exact matches, in which:  
1474 unique CDR3  
12 unique J



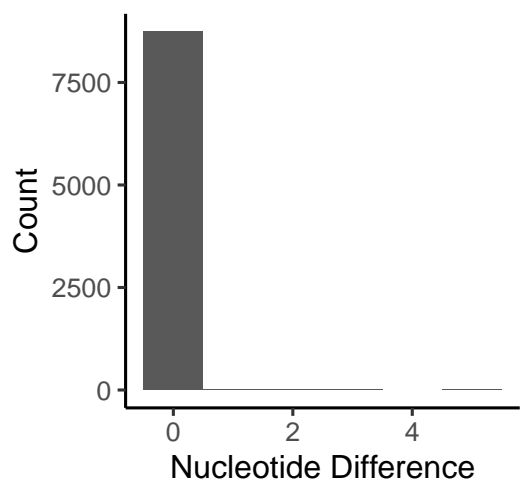
### TRBV6-7\*ap01

315 sequences assigned  
312 (99%) exact matches, in which:  
312 unique CDR3  
12 unique J



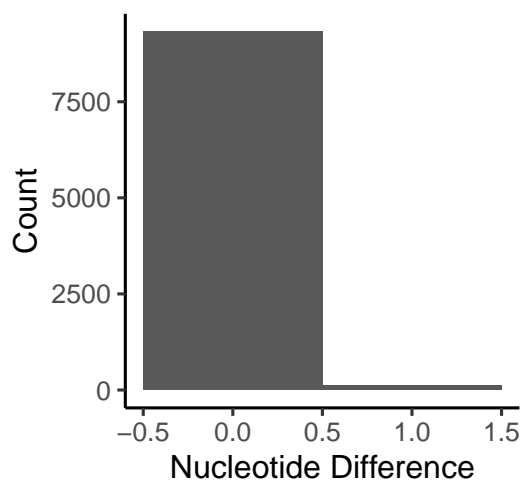
### TRBV5-6\*ap01

8763 sequences assigned  
8738 (99.7%) exact matches, in which:  
8721 unique CDR3  
13 unique J



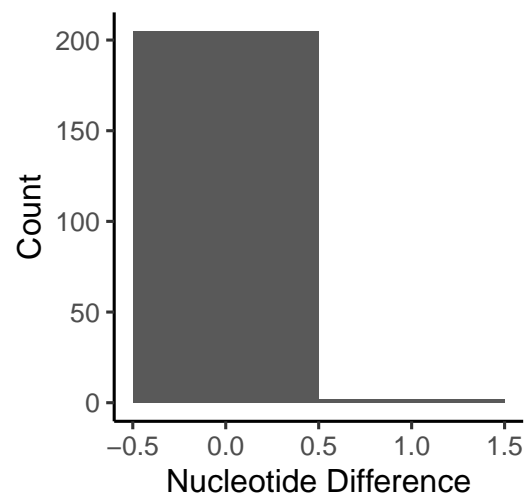
### TRBV6-1\*ap01

9441 sequences assigned  
9322 (98.7%) exact matches, in which:  
9319 unique CDR3  
12 unique J



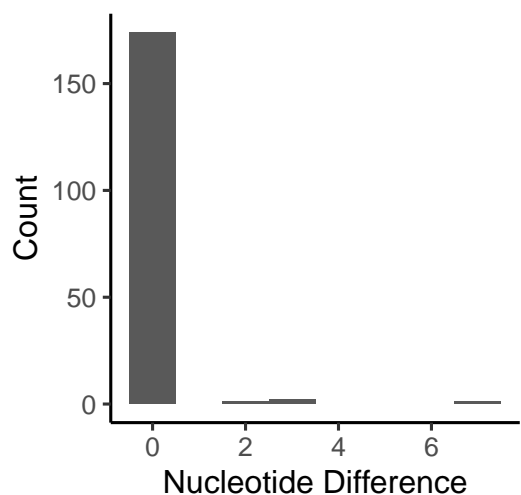
### TRBV6-8\*ap01

207 sequences assigned  
205 (99%) exact matches, in which:  
205 unique CDR3  
12 unique J



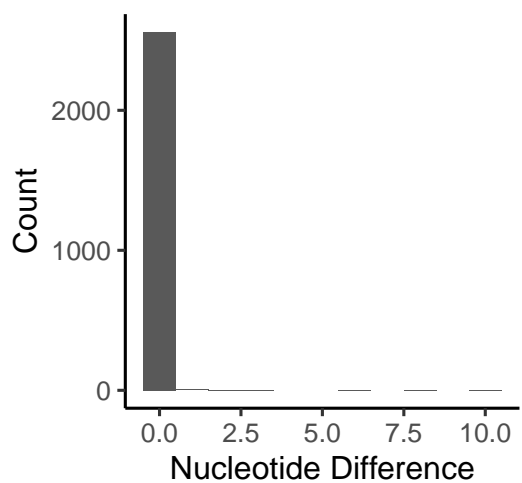
### TRBV5-7\*ap01

178 sequences assigned  
174 (97.8%) exact matches, in which:  
174 unique CDR3  
12 unique J



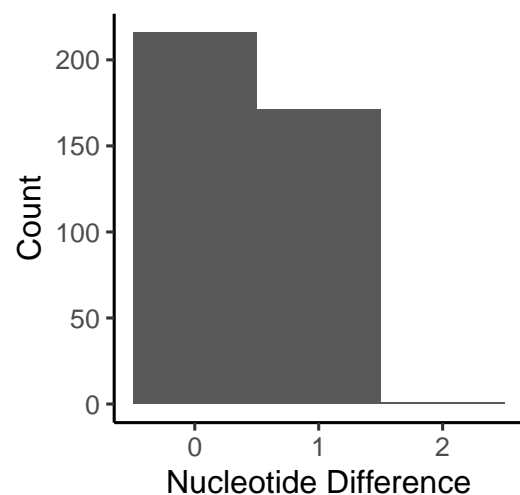
### TRBV6-4\*ap01

2573 sequences assigned  
2559 (99.5%) exact matches, in which:  
2559 unique CDR3  
12 unique J



### TRBV6-9\*ap01

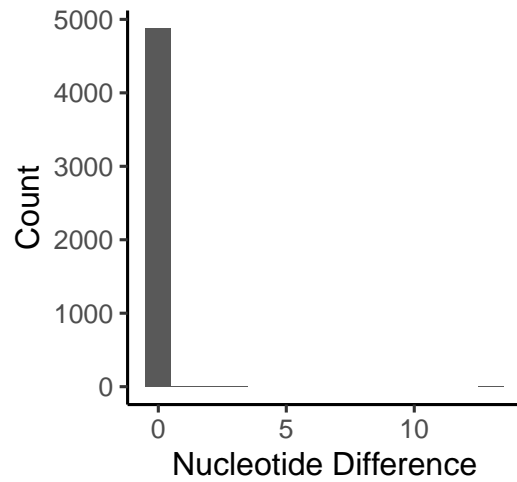
388 sequences assigned  
216 (55.7%) exact matches, in which:  
216 unique CDR3  
12 unique J





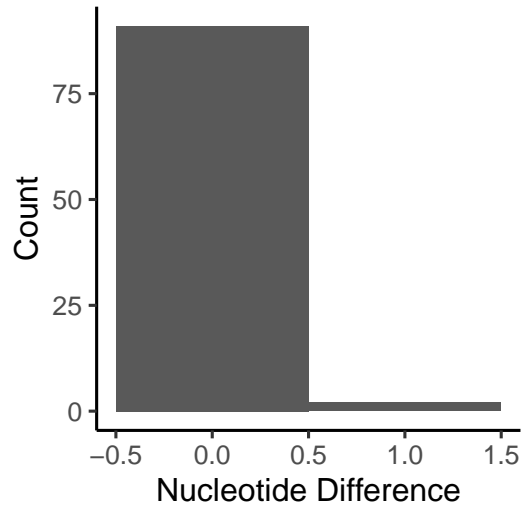
### TRBV6-23\*ap01

4893 sequences assigned  
4877 (99.7%) exact matches, in which:  
4877 unique CDR3  
12 unique J



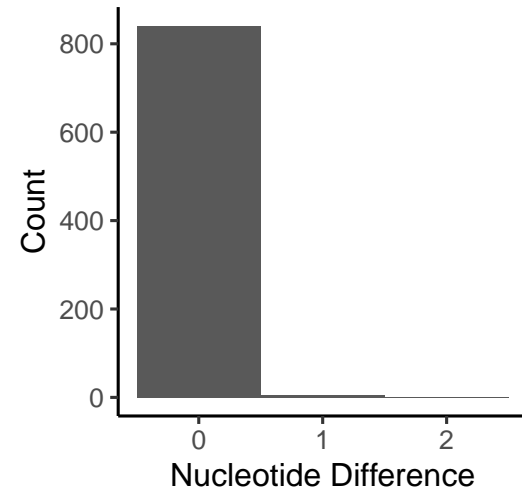
### TRBV7-1\*ap01\_G291C\_T

93 sequences assigned  
91 (97.8%) exact matches, in which:  
91 unique CDR3  
11 unique J



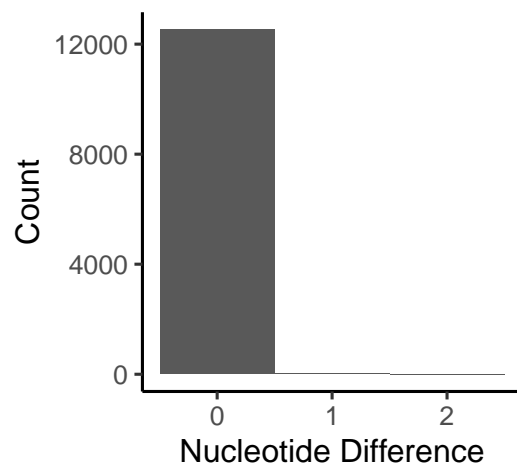
### TRBV7-3\*ap03

847 sequences assigned  
841 (99.3%) exact matches, in which:  
841 unique CDR3  
12 unique J



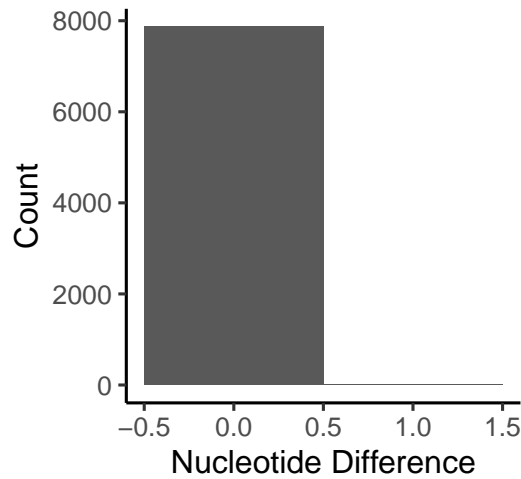
### TRBV6-56\*ap01

12552 sequences assigned  
12533 (99.8%) exact matches, in which:  
12524 unique CDR3  
13 unique J



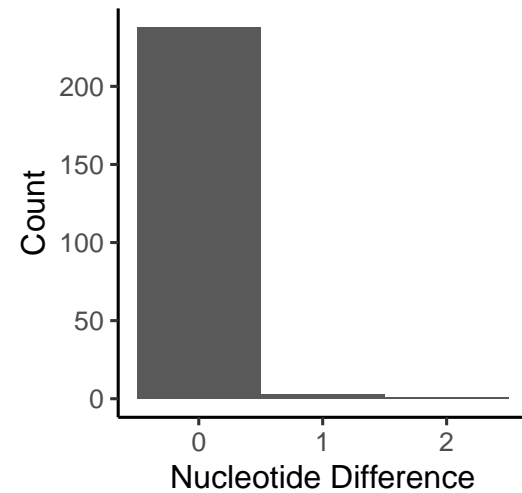
### TRBV7-2\*ap01

7884 sequences assigned  
7868 (99.8%) exact matches, in which:  
7867 unique CDR3  
12 unique J



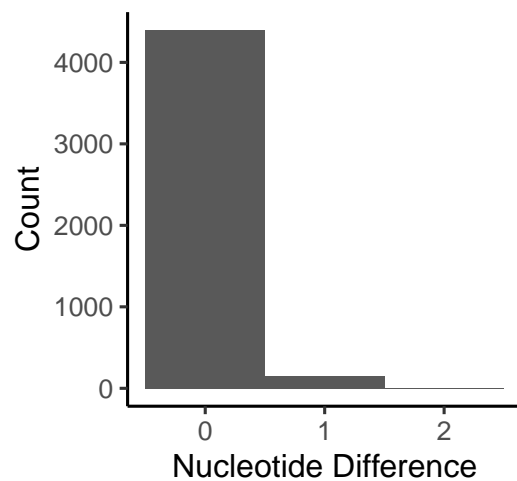
### TRBV7-4\*ap01

242 sequences assigned  
238 (98.3%) exact matches, in which:  
238 unique CDR3  
12 unique J



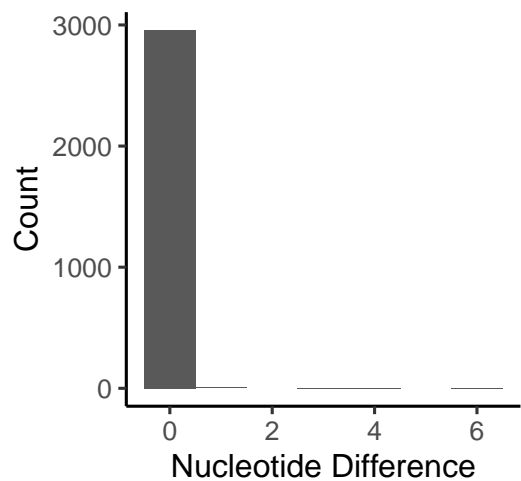
### TRBV6-56\*ap02

4547 sequences assigned  
4397 (96.7%) exact matches, in which:  
4395 unique CDR3  
12 unique J



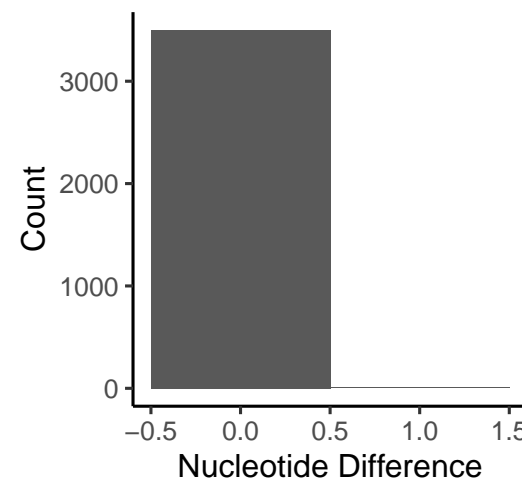
### TRBV7-3\*ap01

2969 sequences assigned  
2958 (99.6%) exact matches, in which:  
2956 unique CDR3  
12 unique J



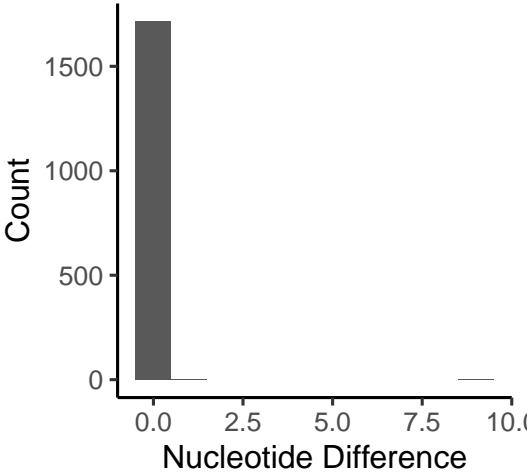
### TRBV7-6\*ap01

3507 sequences assigned  
3500 (99.8%) exact matches, in which:  
3500 unique CDR3  
12 unique J



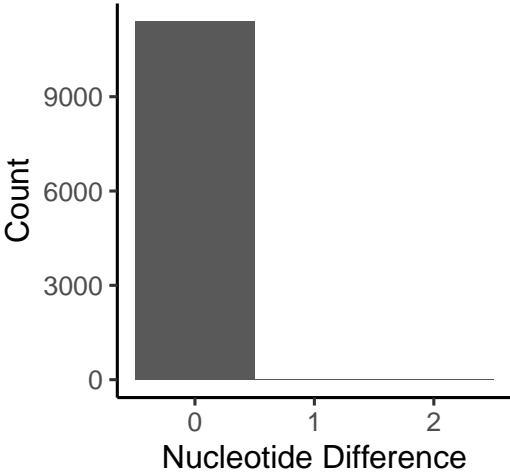
TRBV7-7\*ap01\_C315T

1717 sequences assigned  
1715 (99.9%) exact matches, in which:  
1715 unique CDR3  
12 unique J



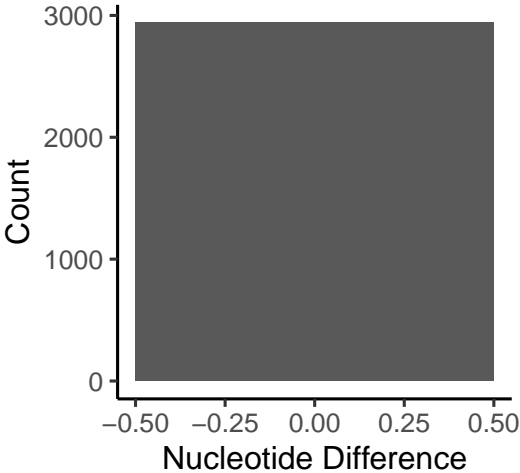
TRBV7-9\*ap01

11411 sequences assigned  
11394 (99.9%) exact matches, in which:  
11391 unique CDR3  
12 unique J



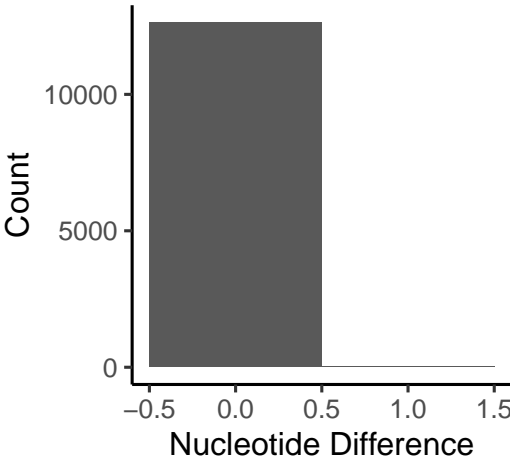
TRBV7-8\*ap01

2940 sequences assigned  
2940 (100%) exact matches, in which:  
2940 unique CDR3  
12 unique J



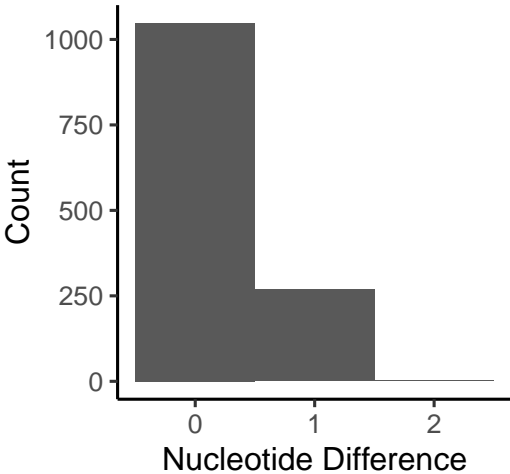
TRBV29-1\*ap01

12665 sequences assigned  
12635 (99.8%) exact matches, in which:  
12616 unique CDR3  
12 unique J



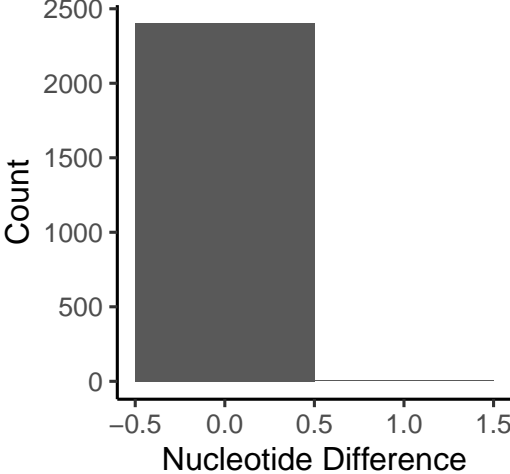
TRBV7-8\*ap03

1319 sequences assigned  
1048 (79.5%) exact matches, in which:  
1048 unique CDR3  
12 unique J

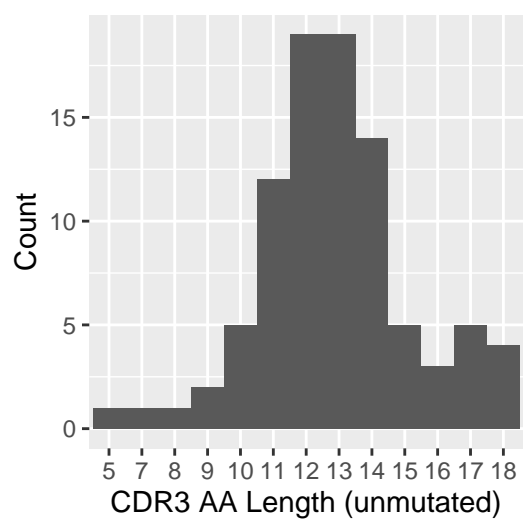


TRBV29-1\*ap02

2409 sequences assigned  
2404 (99.8%) exact matches, in which:  
2399 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

