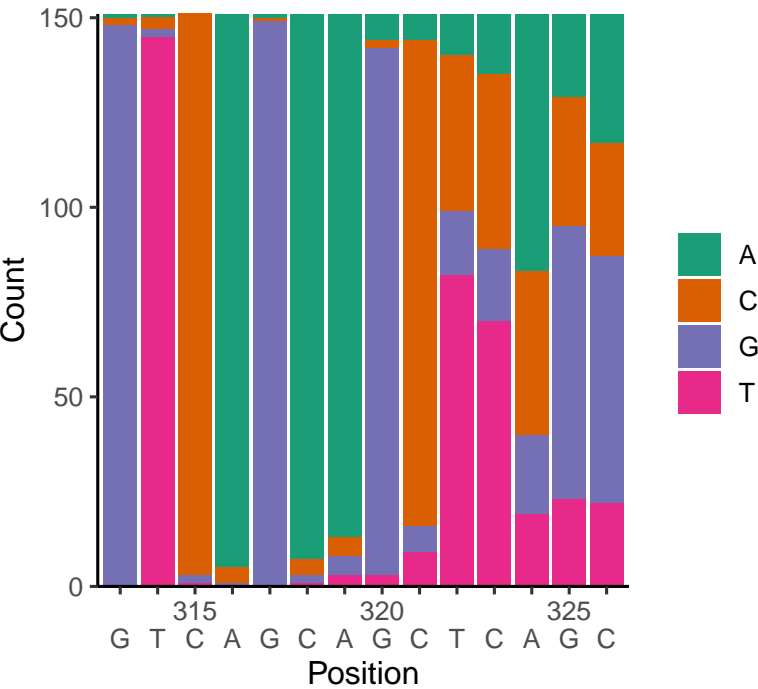
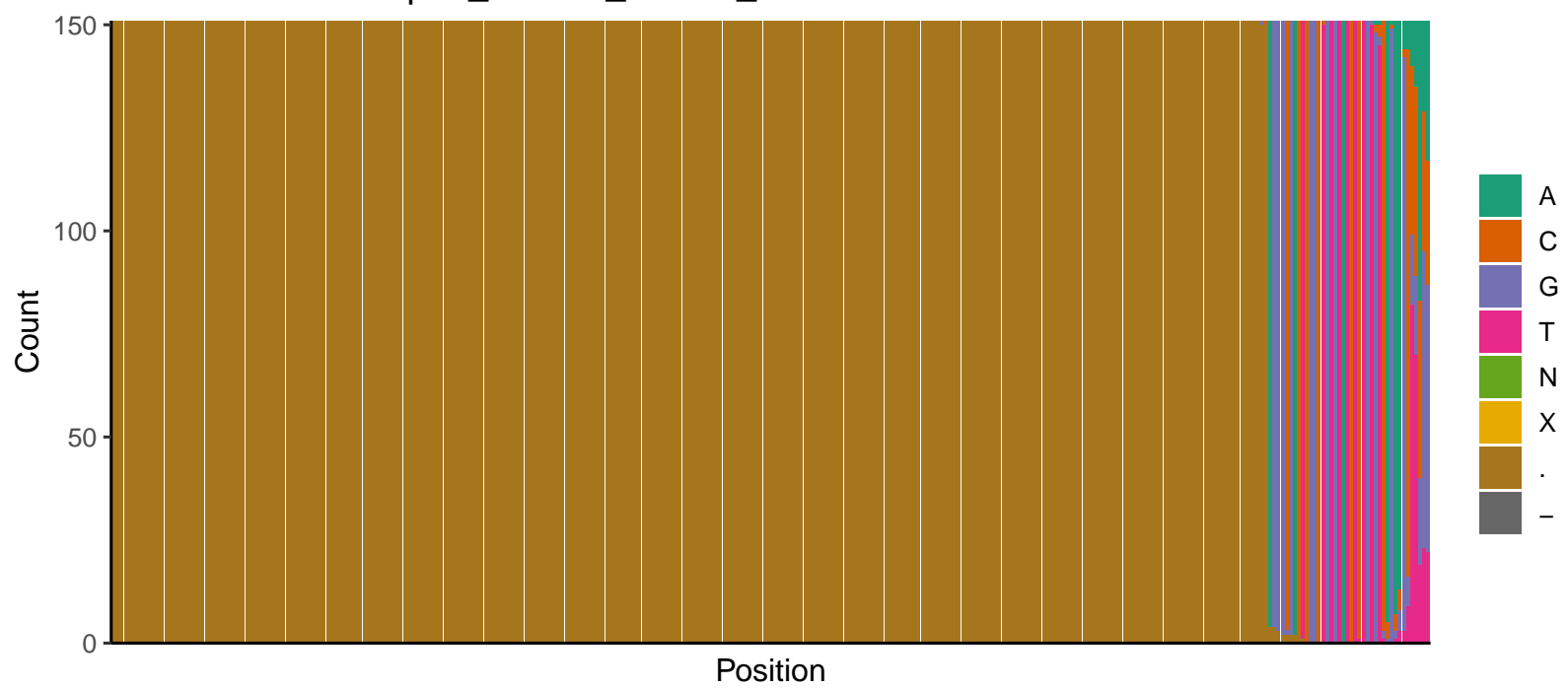


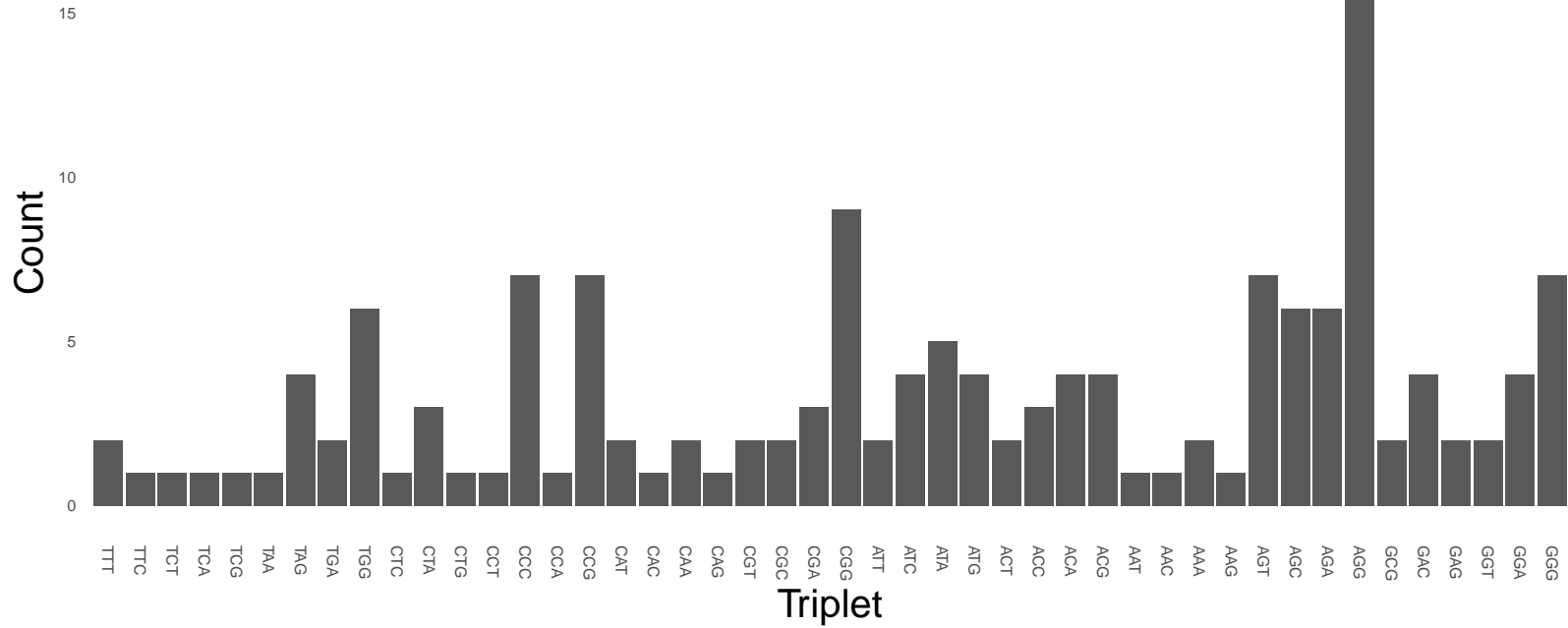
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



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

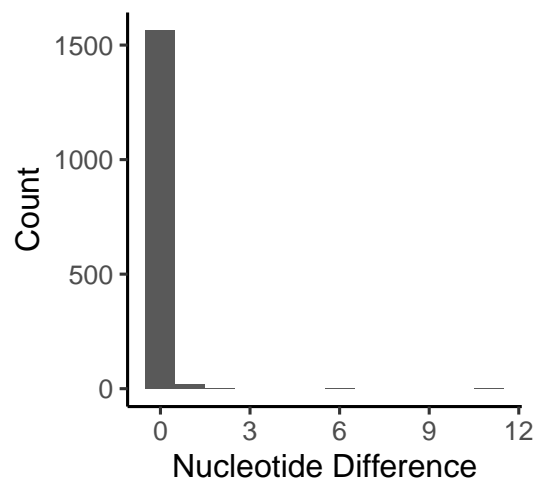


TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



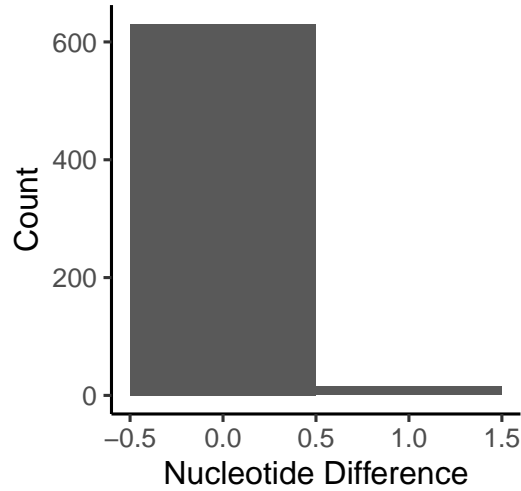
### TRBV10-1\*ap01

1588 sequences assigned  
1564 (98.5%) exact matches, in which:  
1516 unique CDR3  
13 unique J



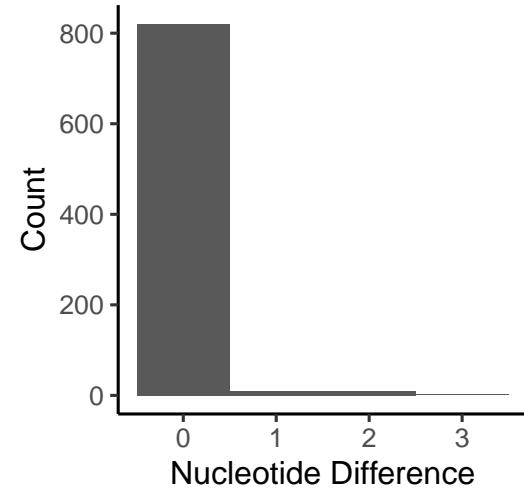
### TRBV10-2\*ap01

646 sequences assigned  
631 (97.7%) exact matches, in which:  
615 unique CDR3  
13 unique J



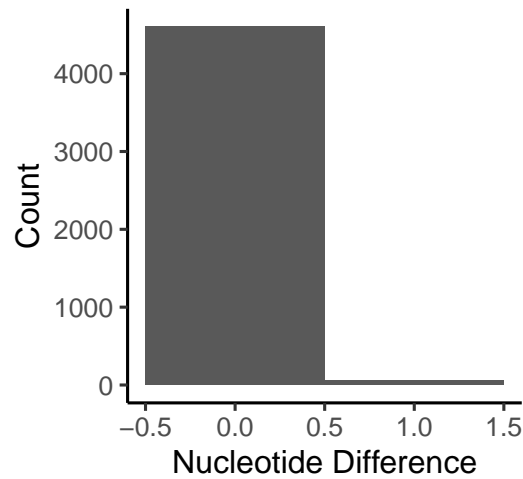
### TRBV13\*ap01

842 sequences assigned  
821 (97.5%) exact matches, in which:  
799 unique CDR3  
13 unique J



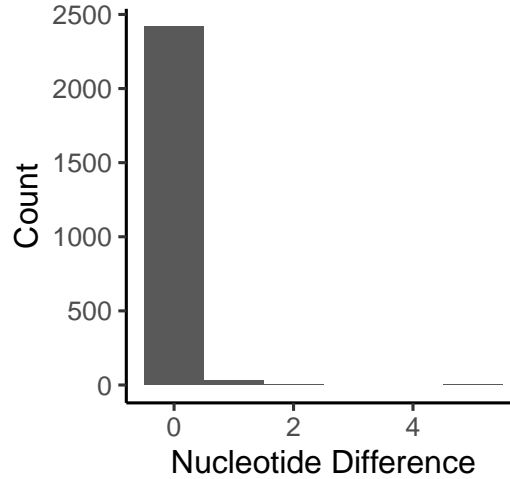
### TRBV20-1\*ap01

4656 sequences assigned  
4603 (98.9%) exact matches, in which:  
4508 unique CDR3  
13 unique J



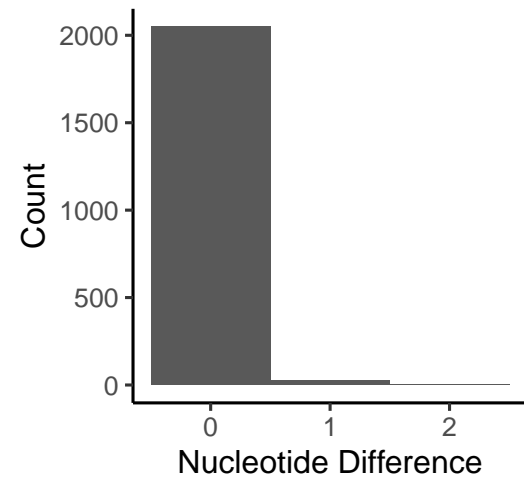
### TRBV10-3\*ap01

2451 sequences assigned  
2417 (98.6%) exact matches, in which:  
2348 unique CDR3  
13 unique J



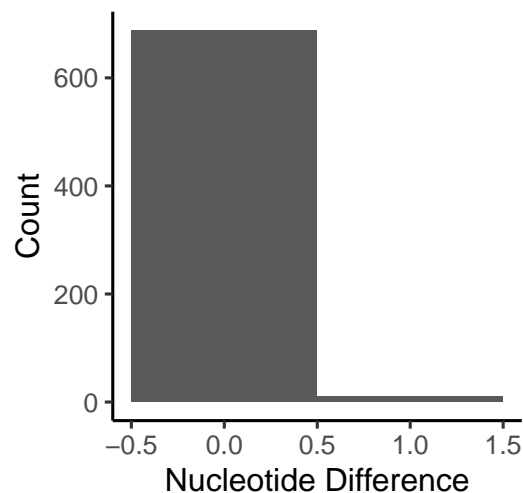
### TRBV14\*ap01

2078 sequences assigned  
2049 (98.6%) exact matches, in which:  
1996 unique CDR3  
13 unique J



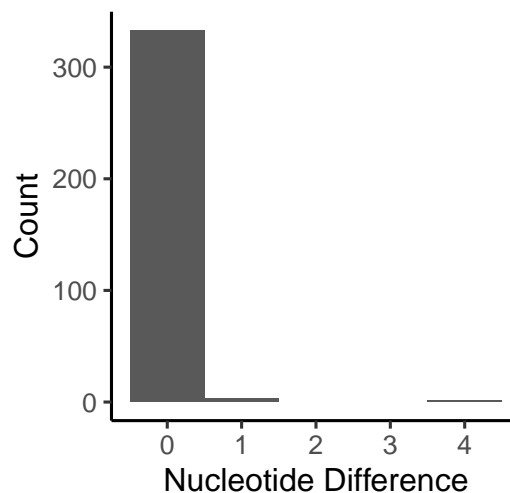
### TRBV20-1\*ap02

699 sequences assigned  
688 (98.4%) exact matches, in which:  
668 unique CDR3  
13 unique J



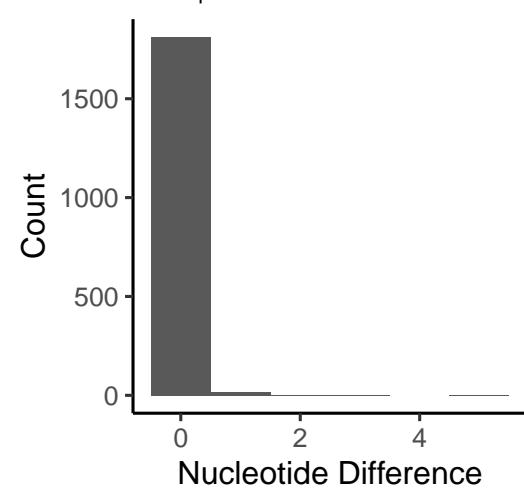
### TRBV1\*ap01

337 sequences assigned  
333 (98.8%) exact matches, in which:  
325 unique CDR3  
13 unique J



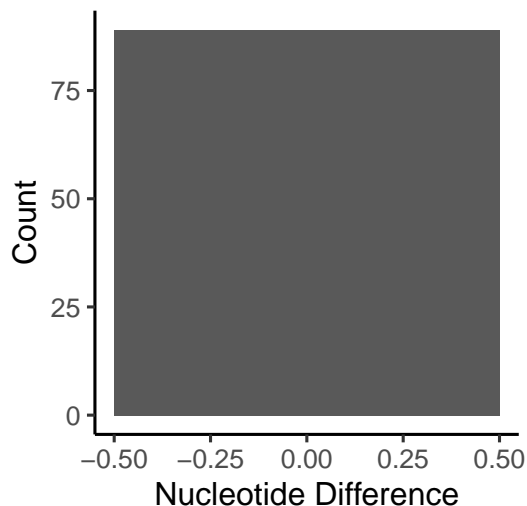
### TRBV15\*ap02

1834 sequences assigned  
1812 (98.8%) exact matches, in which:  
1758 unique CDR3  
13 unique J



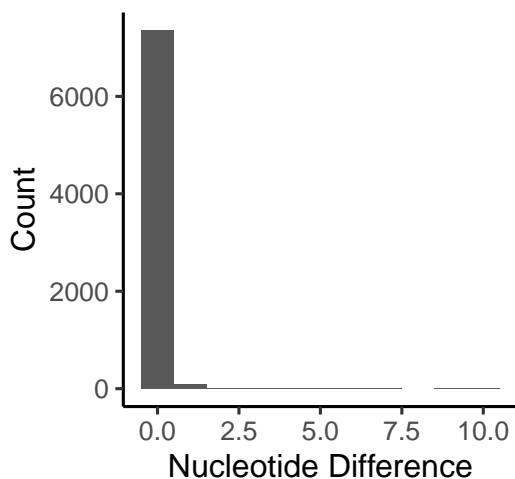
### TRBV16\*ap01

89 sequences assigned  
89 (100%) exact matches, in which:  
86 unique CDR3  
12 unique J



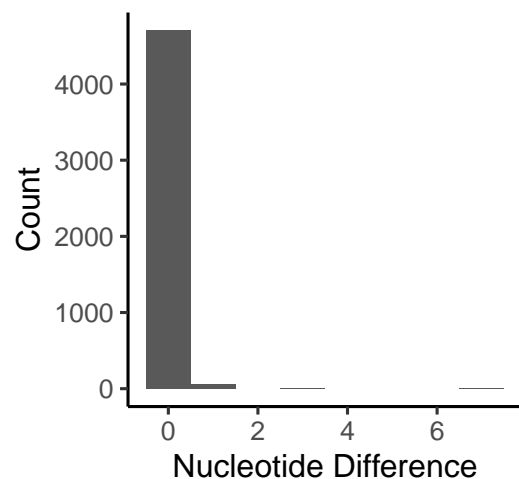
### TRBV19\*ap01

7455 sequences assigned  
7354 (98.6%) exact matches, in which:  
7192 unique CDR3  
13 unique J



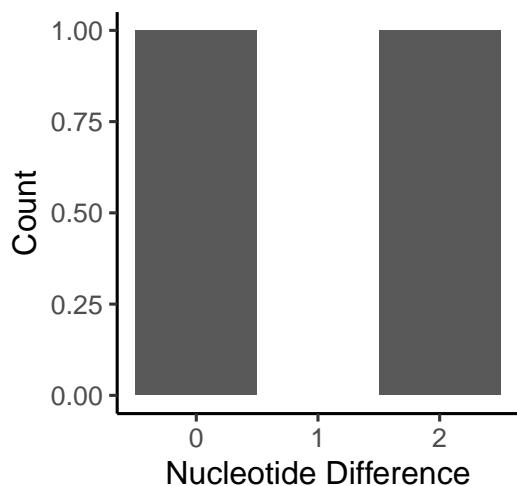
### TRBV28\*ap01

4766 sequences assigned  
4704 (98.7%) exact matches, in which:  
4592 unique CDR3  
13 unique J



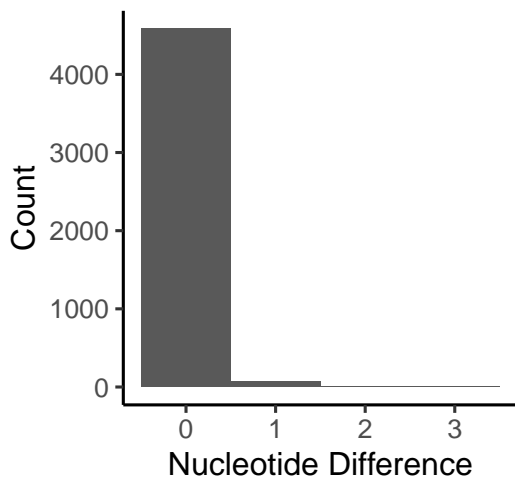
### TRBV17\*ap01

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



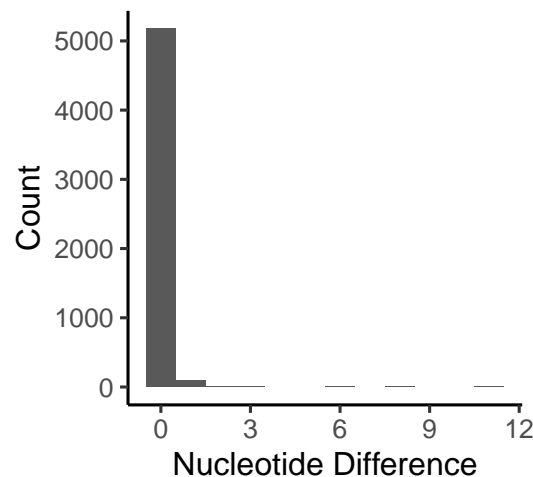
### TRBV2\*ap01

4653 sequences assigned  
4584 (98.5%) exact matches, in which:  
4492 unique CDR3  
13 unique J



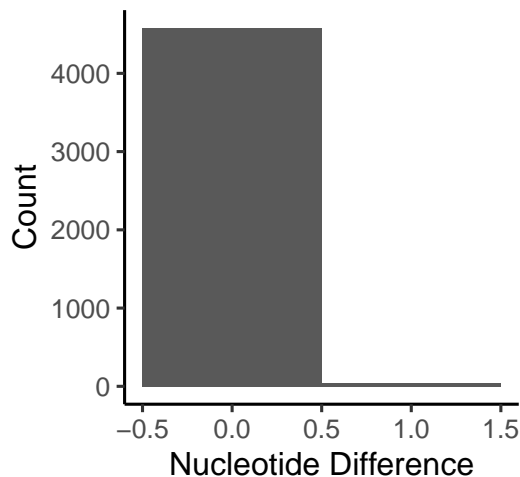
### TRBV30\*ap01

5279 sequences assigned  
5176 (98%) exact matches, in which:  
5120 unique CDR3  
13 unique J



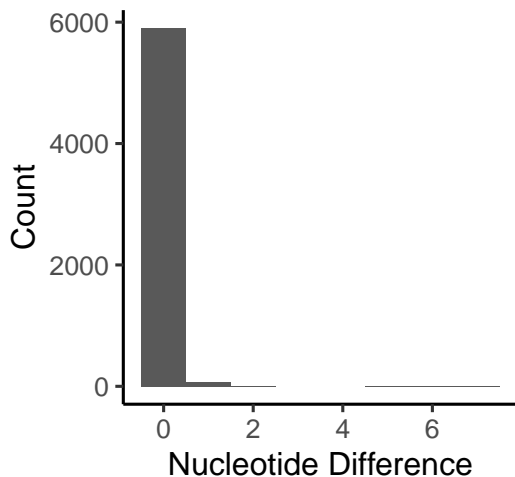
### TRBV18\*ap01

4619 sequences assigned  
4579 (99.1%) exact matches, in which:  
4486 unique CDR3  
13 unique J



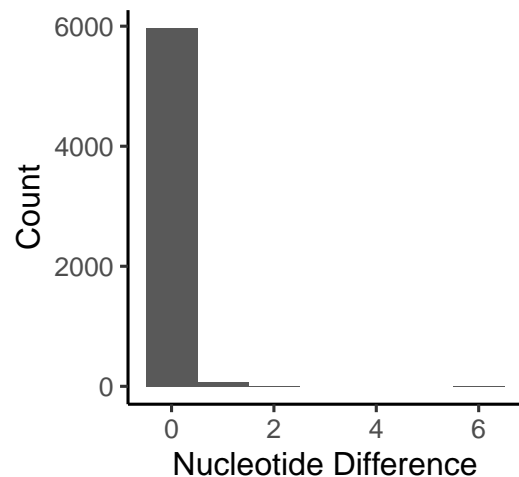
### TRBV27\*ap01

5977 sequences assigned  
5903 (98.8%) exact matches, in which:  
5752 unique CDR3  
13 unique J



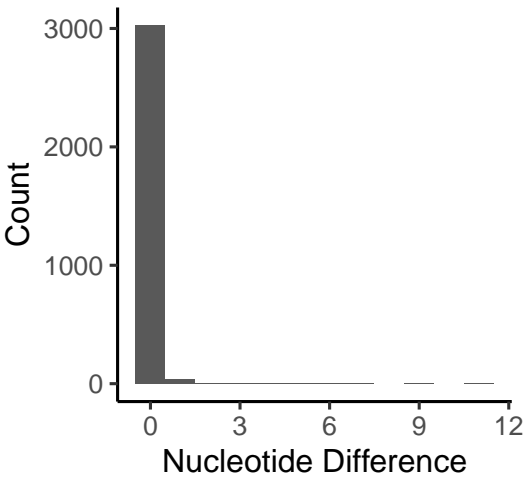
### TRBV9\*ap01

6038 sequences assigned  
5969 (98.9%) exact matches, in which:  
5823 unique CDR3  
13 unique J



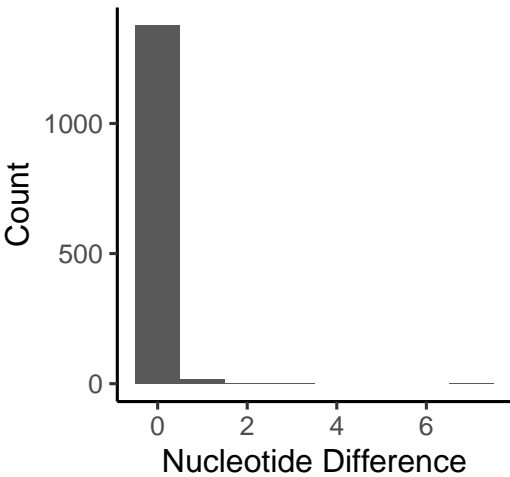
TRBV21-1\*ap01

3077 sequences assigned  
3026 (98.3%) exact matches, in which:  
2939 unique CDR3  
13 unique J



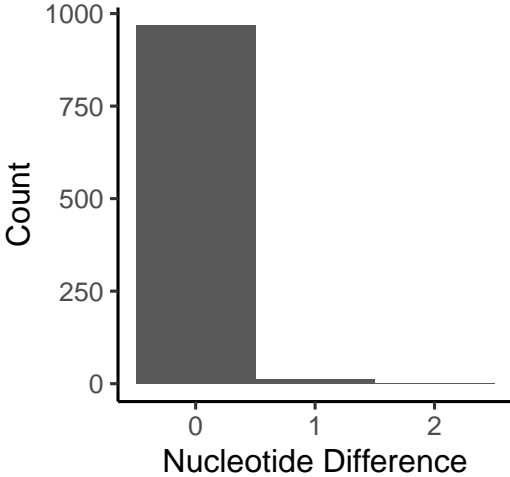
TRBV11-3\*ap01

1397 sequences assigned  
1377 (98.6%) exact matches, in which:  
1351 unique CDR3  
13 unique J



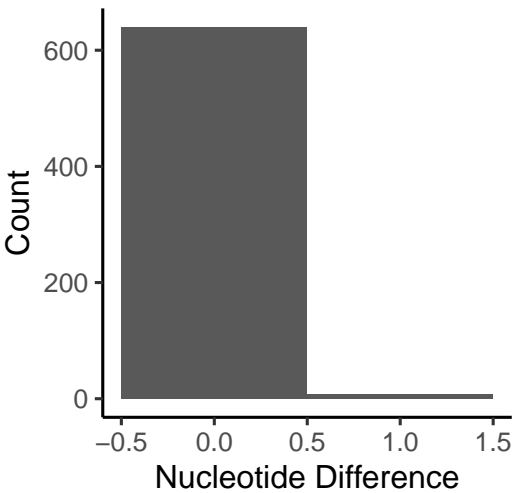
TRBV12-5\*ap01

980 sequences assigned  
968 (98.8%) exact matches, in which:  
938 unique CDR3  
13 unique J



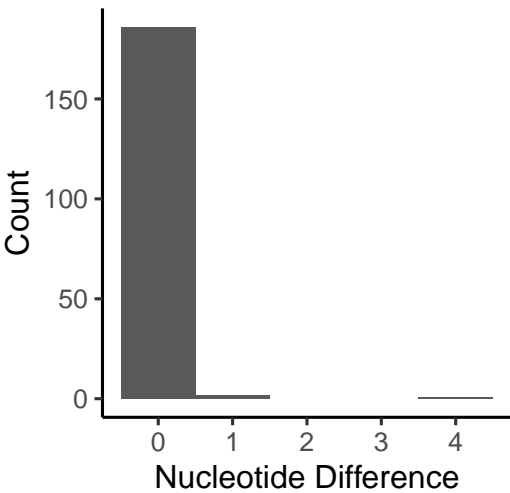
TRBV11-1\*ap01

647 sequences assigned  
640 (98.9%) exact matches, in which:  
624 unique CDR3  
13 unique J



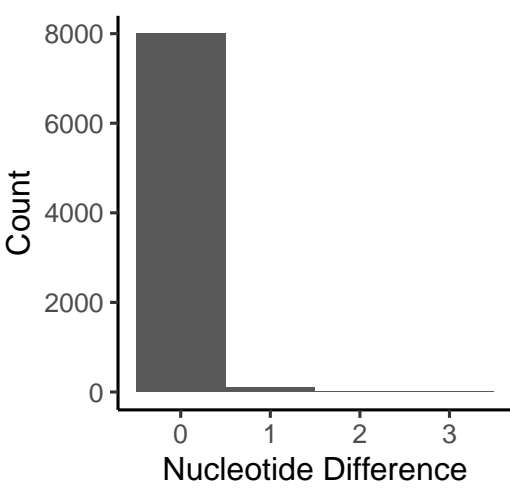
TRBV12-1\*ap01

189 sequences assigned  
186 (98.4%) exact matches, in which:  
183 unique CDR3  
13 unique J



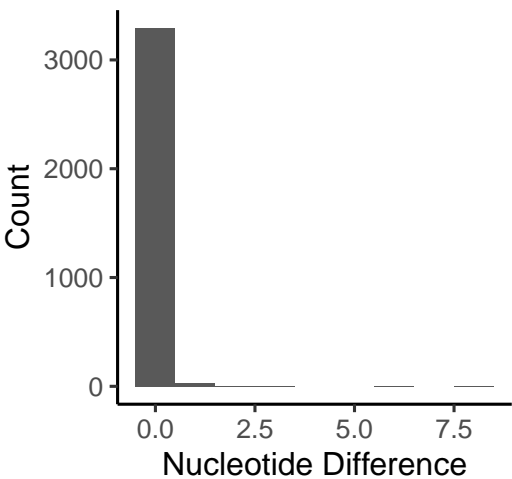
TRBV12-34\*ap01

8113 sequences assigned  
7998 (98.6%) exact matches, in which:  
7807 unique CDR3  
13 unique J



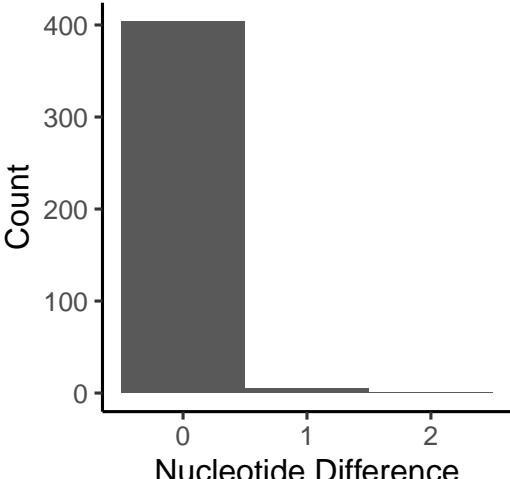
TRBV11-2\*ap01

3329 sequences assigned  
3293 (98.9%) exact matches, in which:  
3176 unique CDR3  
13 unique J



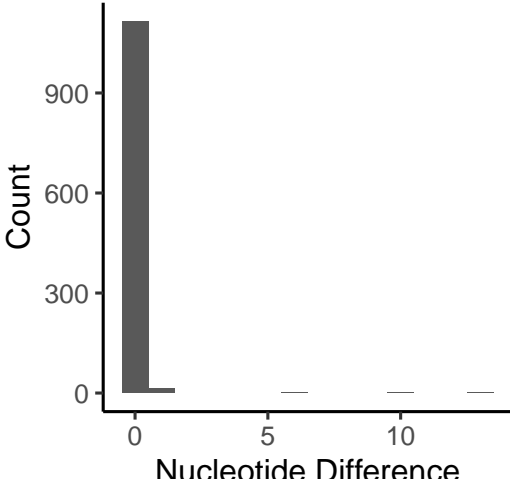
TRBV12-2\*ap01

410 sequences assigned  
404 (98.5%) exact matches, in which:  
390 unique CDR3  
13 unique J



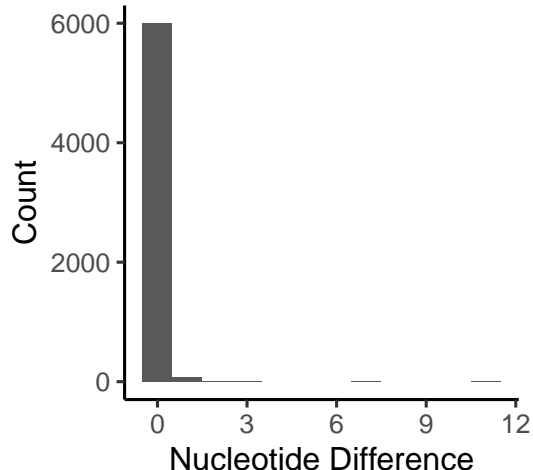
TRBV23-1\*ap01

1132 sequences assigned  
1115 (98.5%) exact matches, in which:  
1082 unique CDR3  
13 unique J



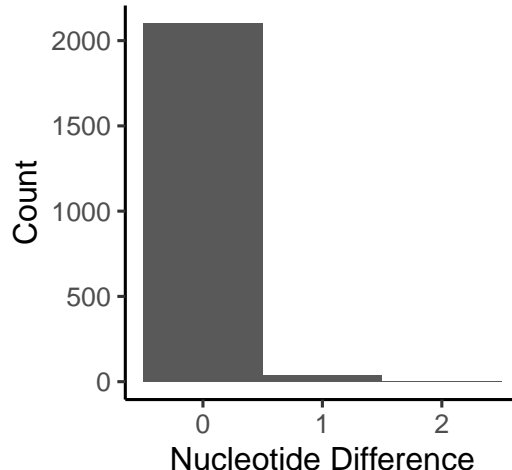
### TRBV3-12\*ap01

6085 sequences assigned  
5997 (98.6%) exact matches, in which:  
5858 unique CDR3  
13 unique J



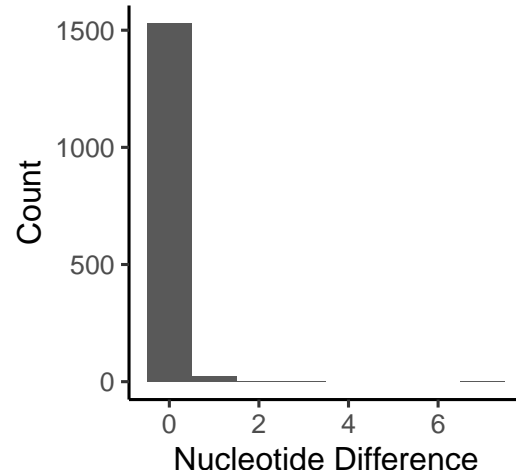
### TRBV4-2\*ap01

2143 sequences assigned  
2101 (98%) exact matches, in which:  
2054 unique CDR3  
13 unique J



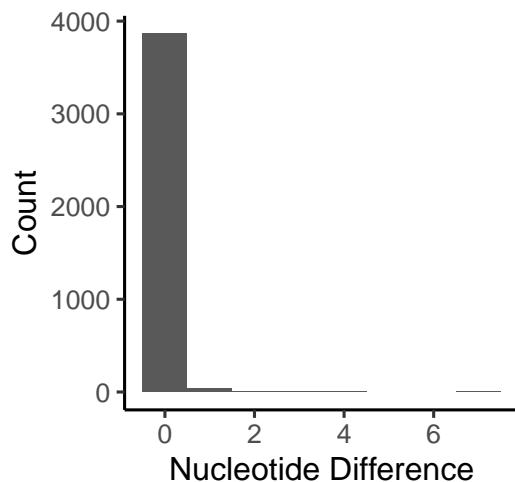
### TRBV25-1\*ap01

1556 sequences assigned  
1529 (98.3%) exact matches, in which:  
1493 unique CDR3  
13 unique J



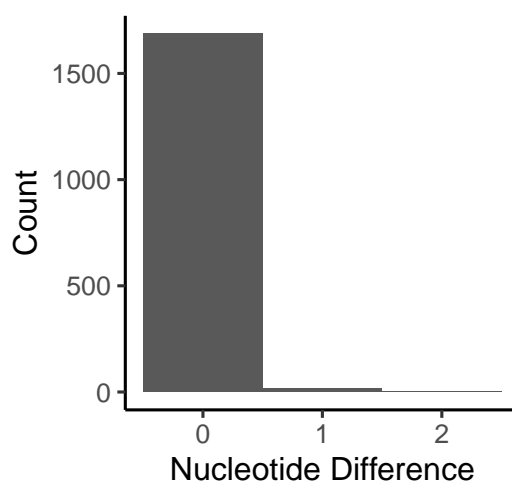
### TRBV24-1\*ap01

3910 sequences assigned  
3864 (98.8%) exact matches, in which:  
3798 unique CDR3  
14 unique J



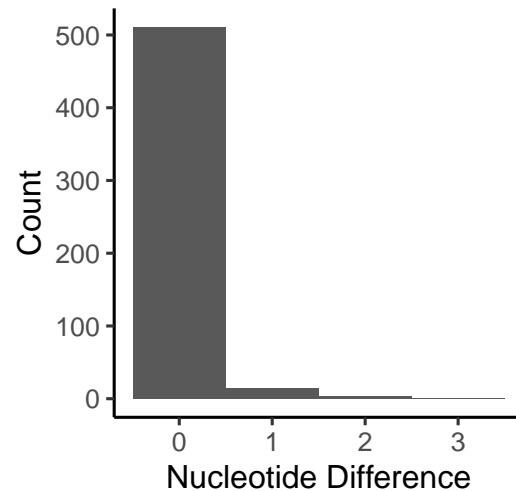
### TRBV4-3\*ap01

1705 sequences assigned  
1687 (98.9%) exact matches, in which:  
1657 unique CDR3  
13 unique J



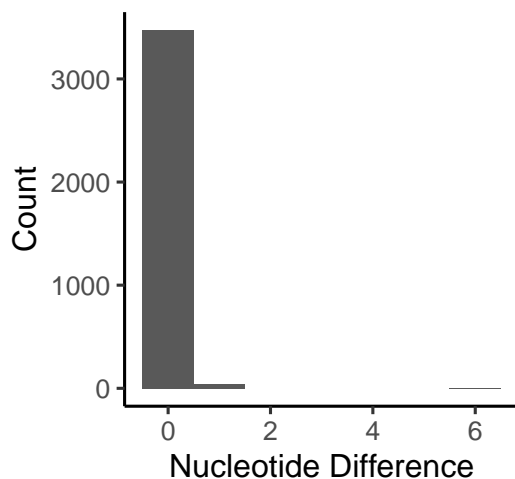
### TRBV5-3\*ap01

530 sequences assigned  
511 (96.4%) exact matches, in which:  
501 unique CDR3  
13 unique J



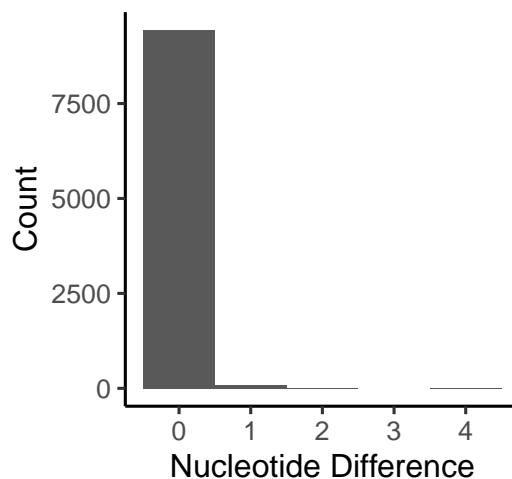
### TRBV4-1\*ap01

3519 sequences assigned  
3474 (98.7%) exact matches, in which:  
3396 unique CDR3  
13 unique J



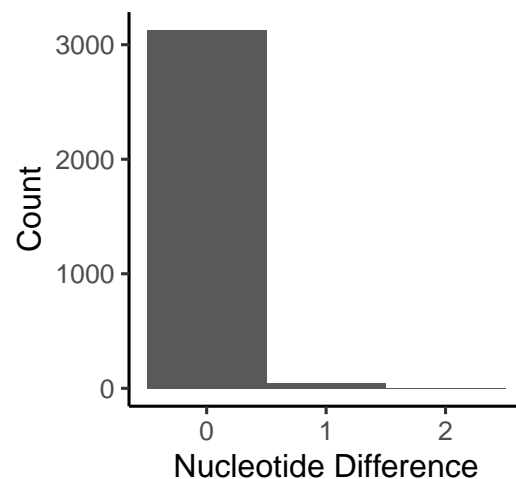
### TRBV5-1\*ap01

9526 sequences assigned  
9435 (99%) exact matches, in which:  
9174 unique CDR3  
13 unique J



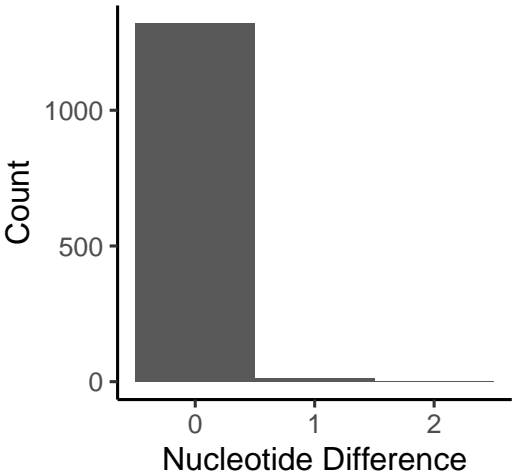
### TRBV5-4\*ap01

3175 sequences assigned  
3128 (98.5%) exact matches, in which:  
3038 unique CDR3  
13 unique J



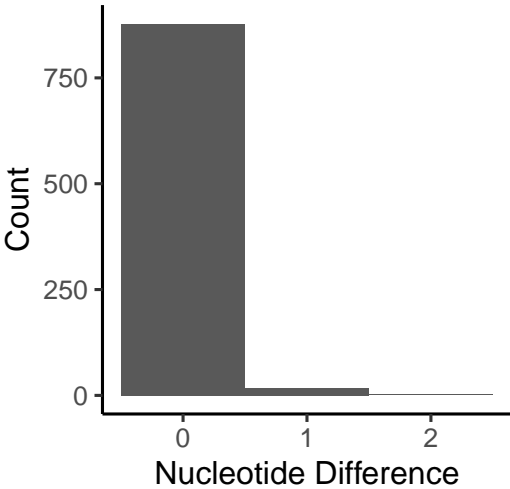
TRBV5-5\*ap01

1333 sequences assigned  
1320 (99%) exact matches, in which:  
1300 unique CDR3  
13 unique J



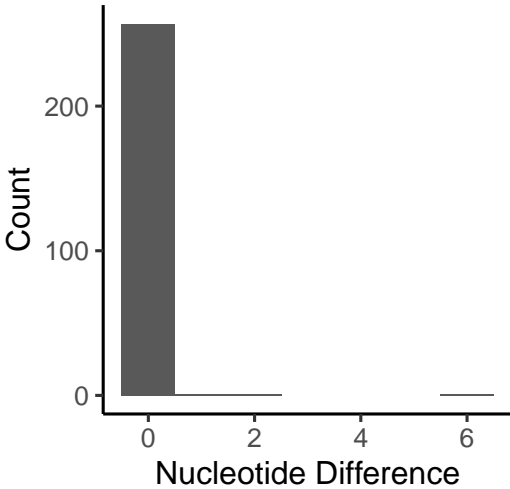
TRBV5-8\*ap01

898 sequences assigned  
878 (97.8%) exact matches, in which:  
852 unique CDR3  
13 unique J



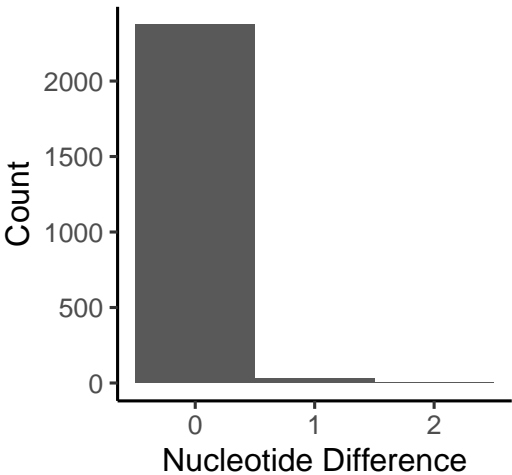
TRBV6-7\*ap01

260 sequences assigned  
257 (98.8%) exact matches, in which:  
249 unique CDR3  
13 unique J



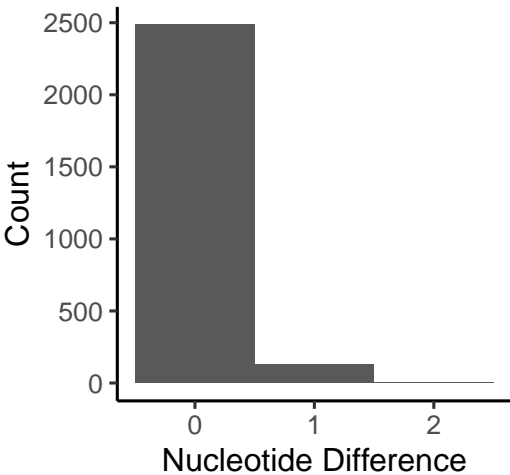
TRBV5-6\*ap01

2402 sequences assigned  
2373 (98.8%) exact matches, in which:  
2316 unique CDR3  
13 unique J



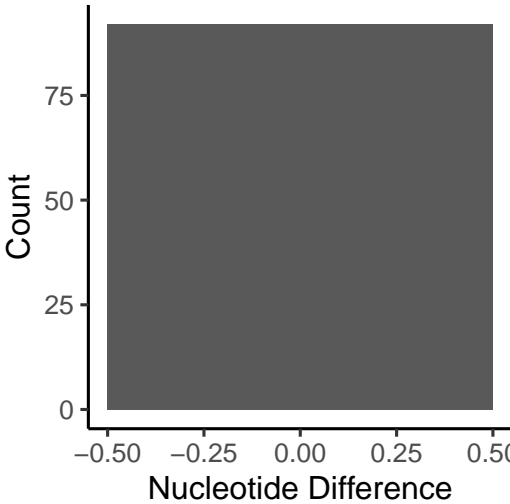
TRBV6-1\*ap01

2616 sequences assigned  
2486 (95%) exact matches, in which:  
2433 unique CDR3  
13 unique J



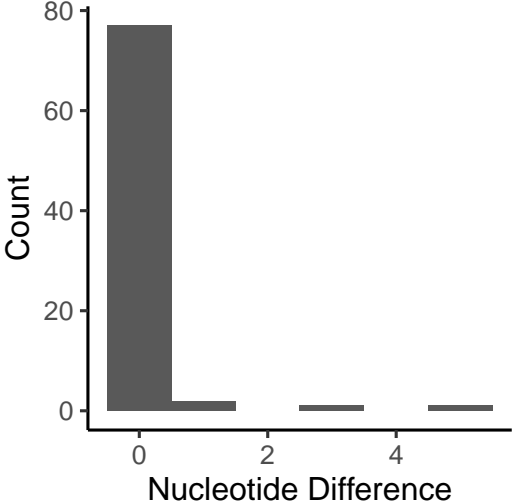
TRBV6-8\*ap01

92 sequences assigned  
92 (100%) exact matches, in which:  
89 unique CDR3  
13 unique J



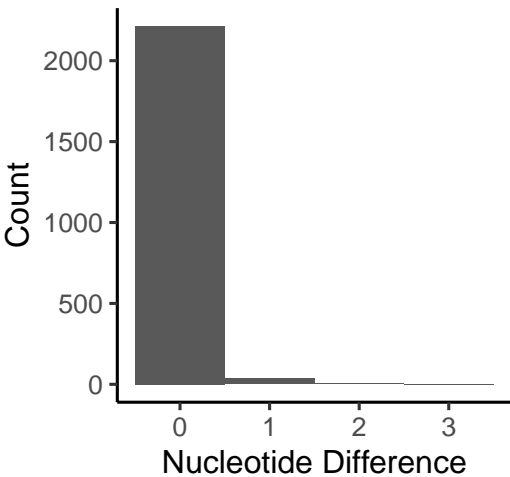
TRBV5-7\*ap01

81 sequences assigned  
77 (95.1%) exact matches, in which:  
77 unique CDR3  
12 unique J



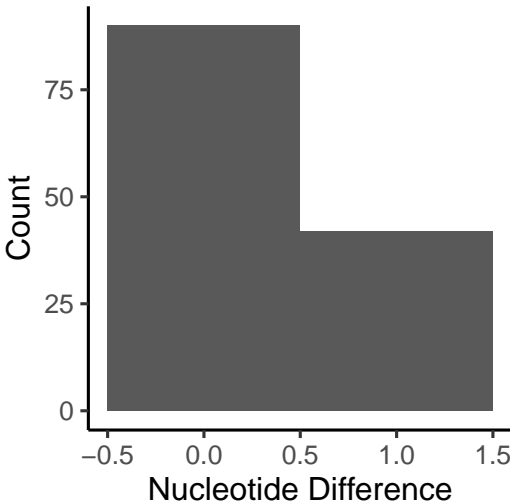
TRBV6-4\*ap01

2257 sequences assigned  
2214 (98.1%) exact matches, in which:  
2167 unique CDR3  
13 unique J



TRBV6-9\*ap01

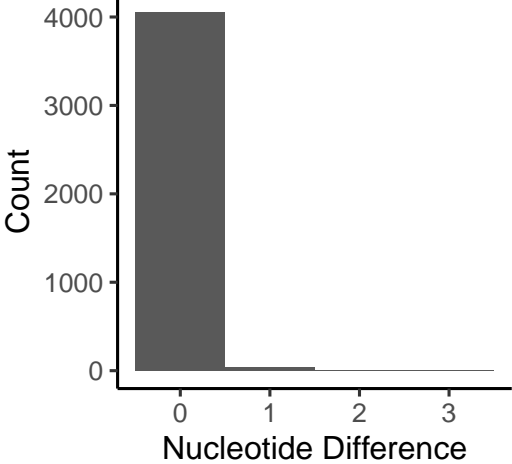
132 sequences assigned  
90 (68.2%) exact matches, in which:  
90 unique CDR3  
13 unique J





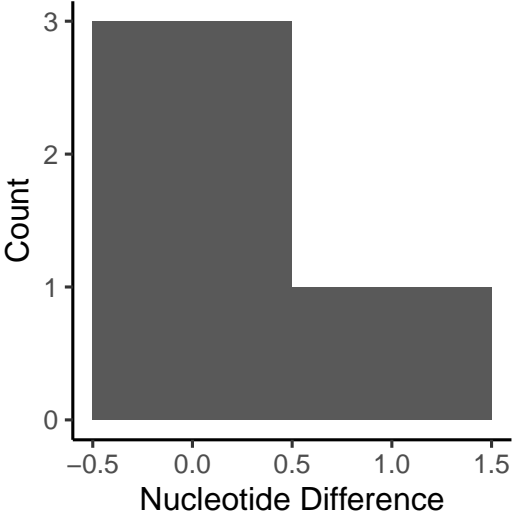
TRBV6-23\*ap01

4100 sequences assigned  
4052 (98.8%) exact matches, in which:  
3954 unique CDR3  
13 unique J



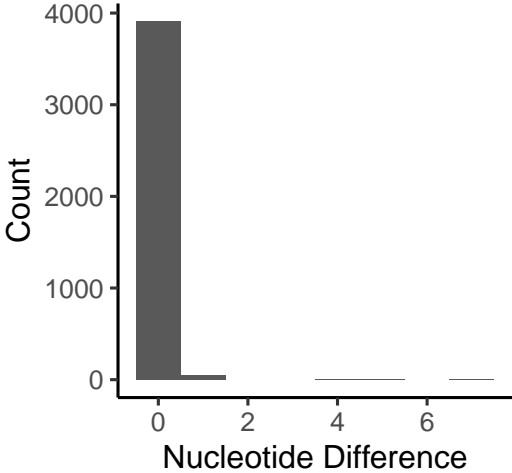
TRBV7-1\*ap01

4 sequences assigned  
3 (75%) exact matches, in which:  
3 unique CDR3  
2 unique J



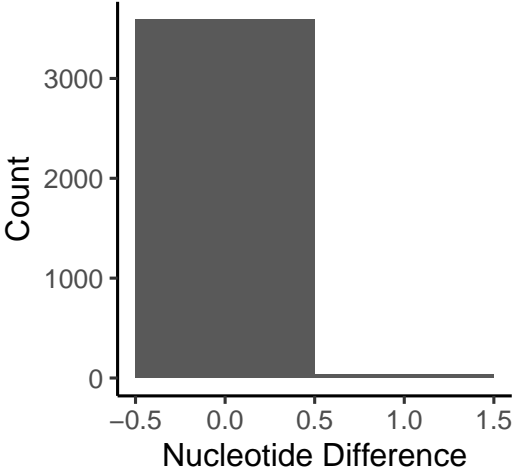
TRBV7-3\*ap01

3961 sequences assigned  
3909 (98.7%) exact matches, in which:  
3799 unique CDR3  
13 unique J



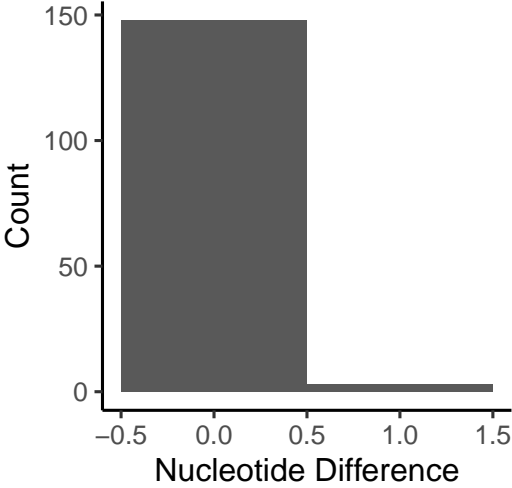
TRBV6-56\*ap01

3627 sequences assigned  
3588 (98.9%) exact matches, in which:  
3496 unique CDR3  
13 unique J



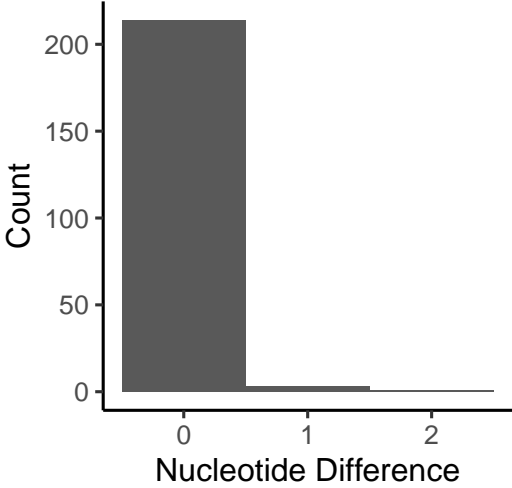
TRBV7-1\*ap01\_G291C\_

151 sequences assigned  
148 (98%) exact matches, in which:  
144 unique CDR3  
13 unique J



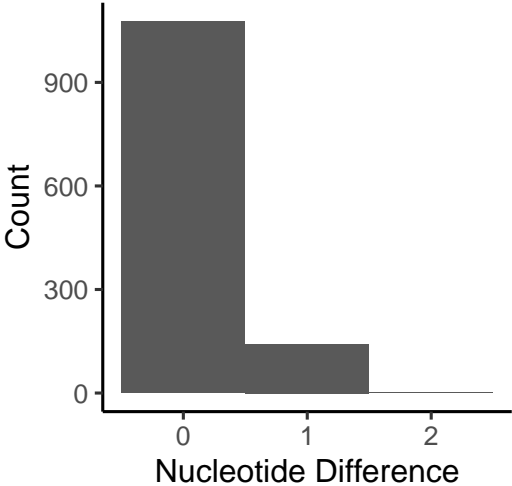
TRBV7-4\*ap01

218 sequences assigned  
214 (98.2%) exact matches, in which:  
207 unique CDR3  
13 unique J



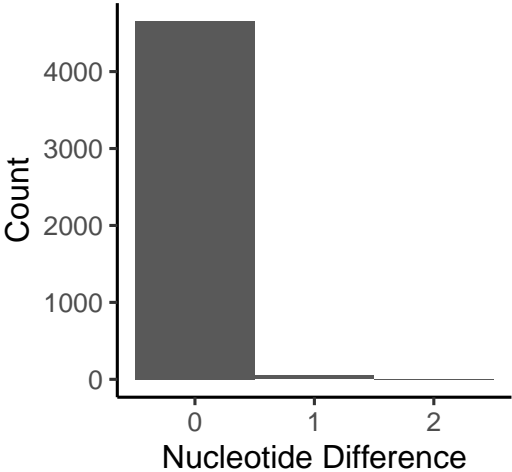
TRBV6-56\*ap02

1220 sequences assigned  
1077 (88.3%) exact matches, in which:  
1056 unique CDR3  
13 unique J



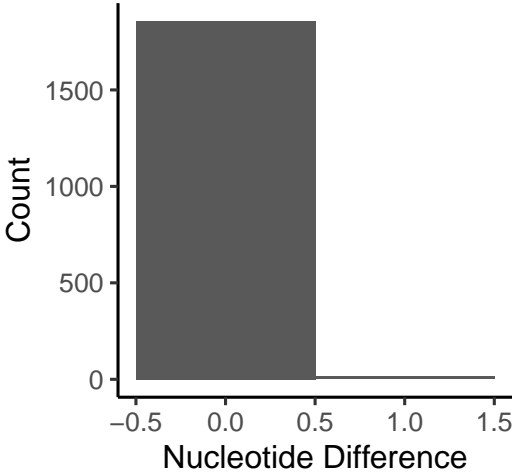
TRBV7-2\*ap01

4709 sequences assigned  
4657 (98.9%) exact matches, in which:  
4547 unique CDR3  
13 unique J



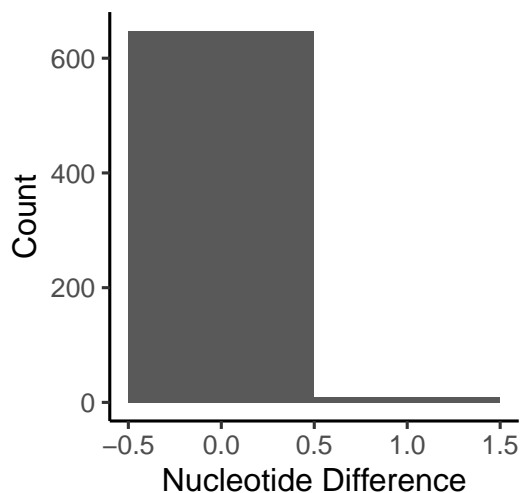
TRBV7-6\*ap01

1871 sequences assigned  
1857 (99.3%) exact matches, in which:  
1798 unique CDR3  
13 unique J



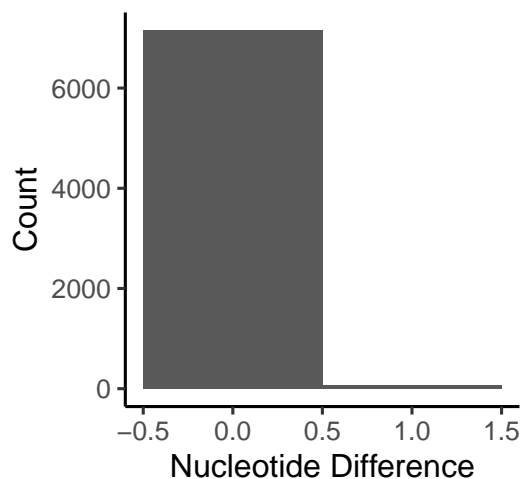
### TRBV7-7\*ap01

657 sequences assigned  
648 (98.6%) exact matches, in which:  
629 unique CDR3  
13 unique J



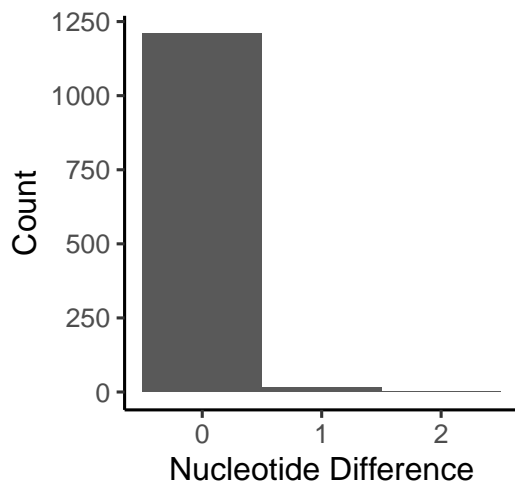
### TRBV7-9\*ap01

7226 sequences assigned  
7151 (99%) exact matches, in which:  
7012 unique CDR3  
13 unique J



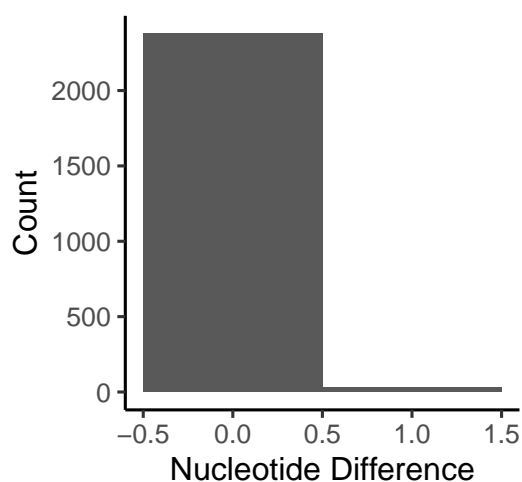
### TRBV7-8\*ap01

1224 sequences assigned  
1209 (98.8%) exact matches, in which:  
1186 unique CDR3  
13 unique J



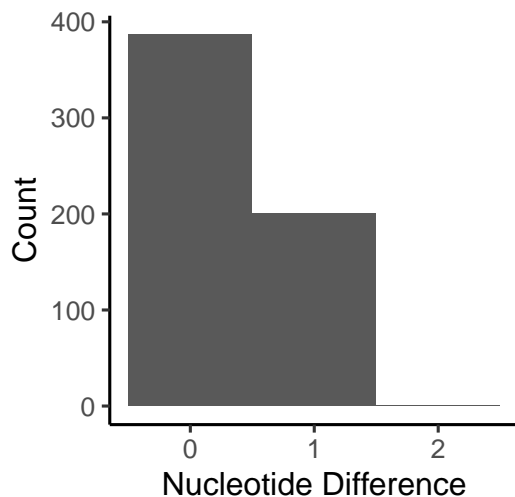
### TRBV29-1\*ap01

2404 sequences assigned  
2377 (98.9%) exact matches, in which:  
2335 unique CDR3  
13 unique J



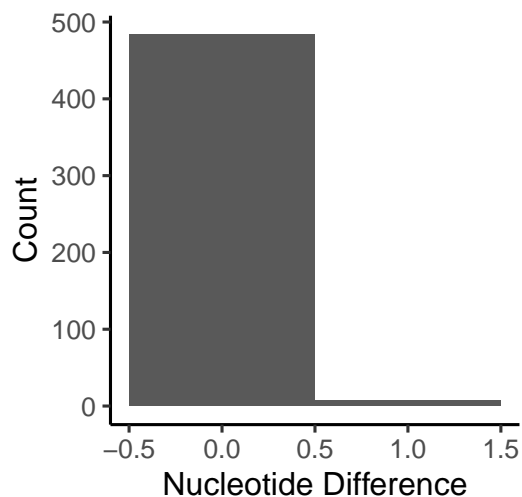
### TRBV7-8\*ap03

588 sequences assigned  
387 (65.8%) exact matches, in which:  
380 unique CDR3  
13 unique J

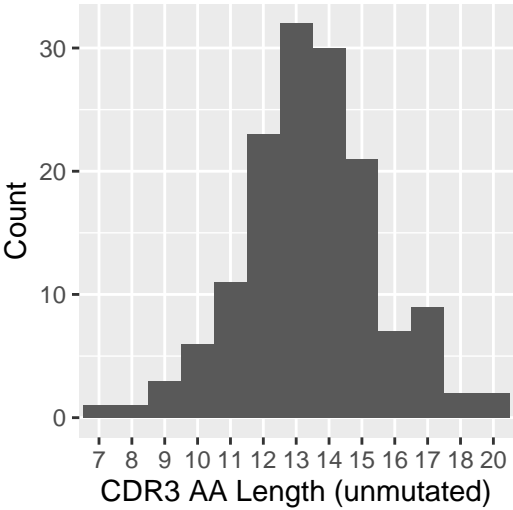


### TRBV29-1\*ap02

491 sequences assigned  
484 (98.6%) exact matches, in which:  
469 unique CDR3  
13 unique J



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





[illegible]