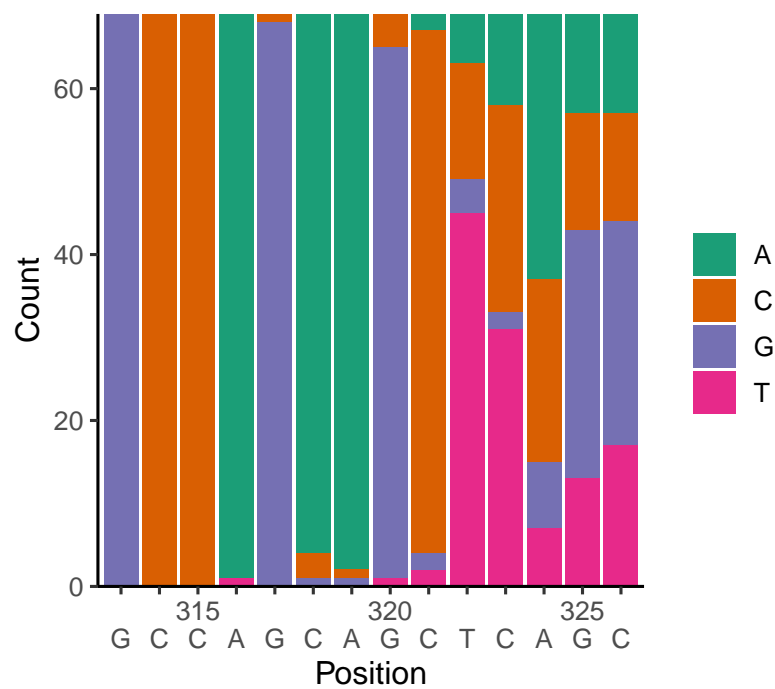
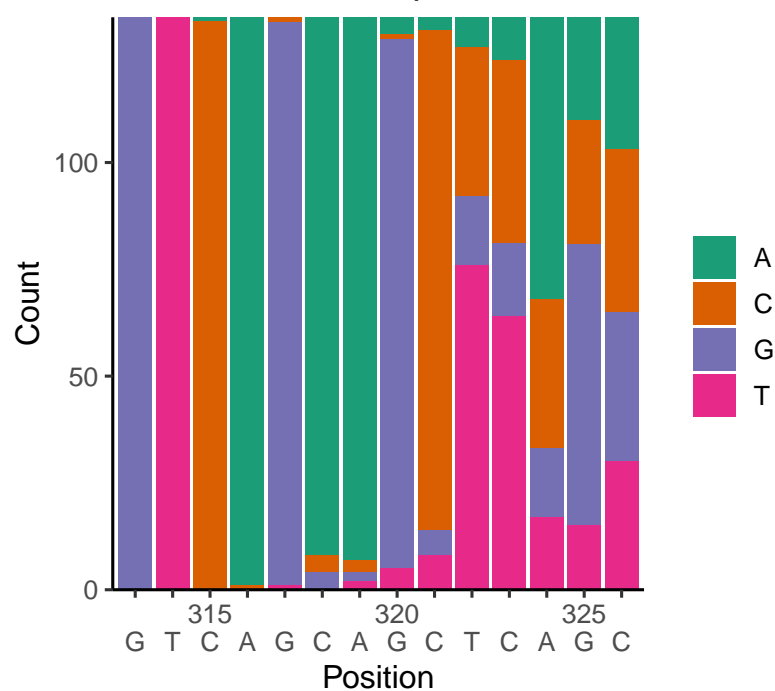


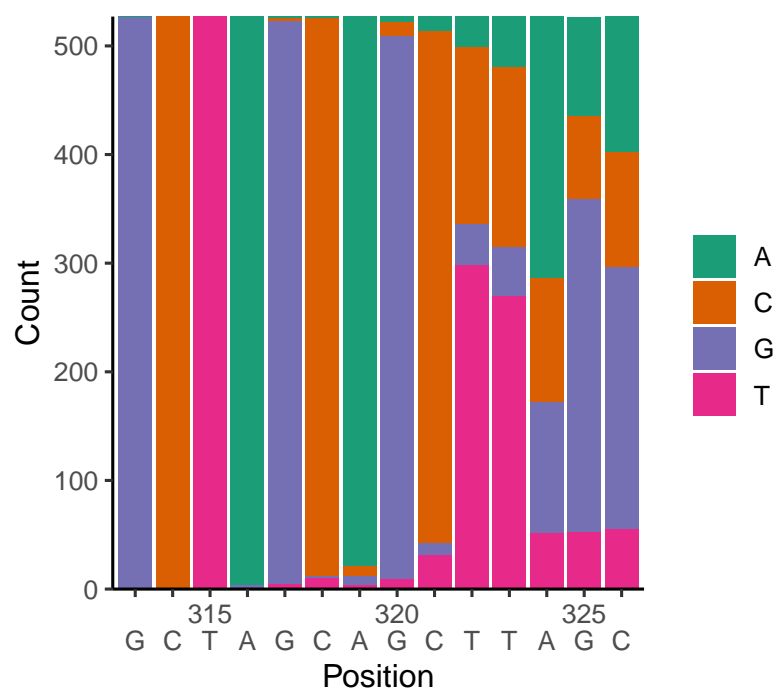
Gene TRBV7-1\*ap01\_G291C\_T296C



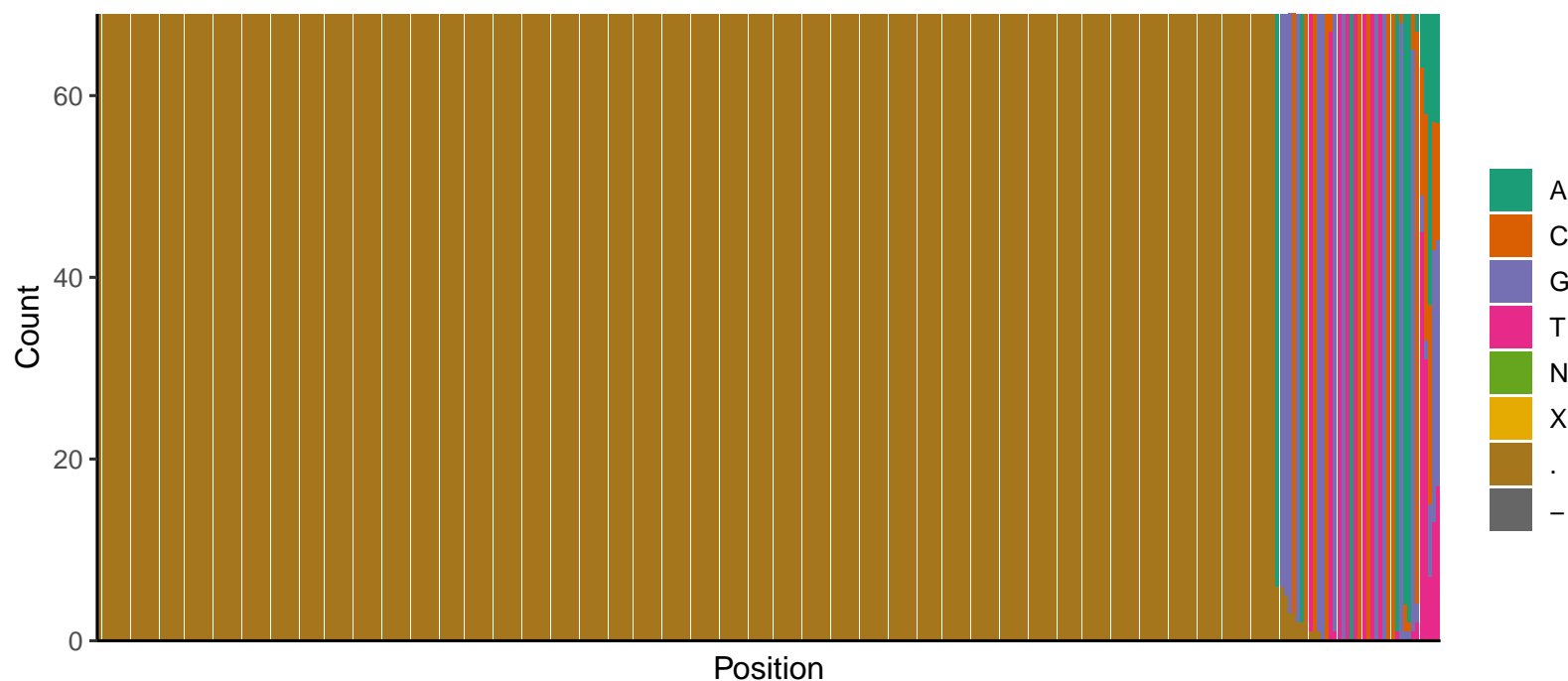
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_G291C\_T296C



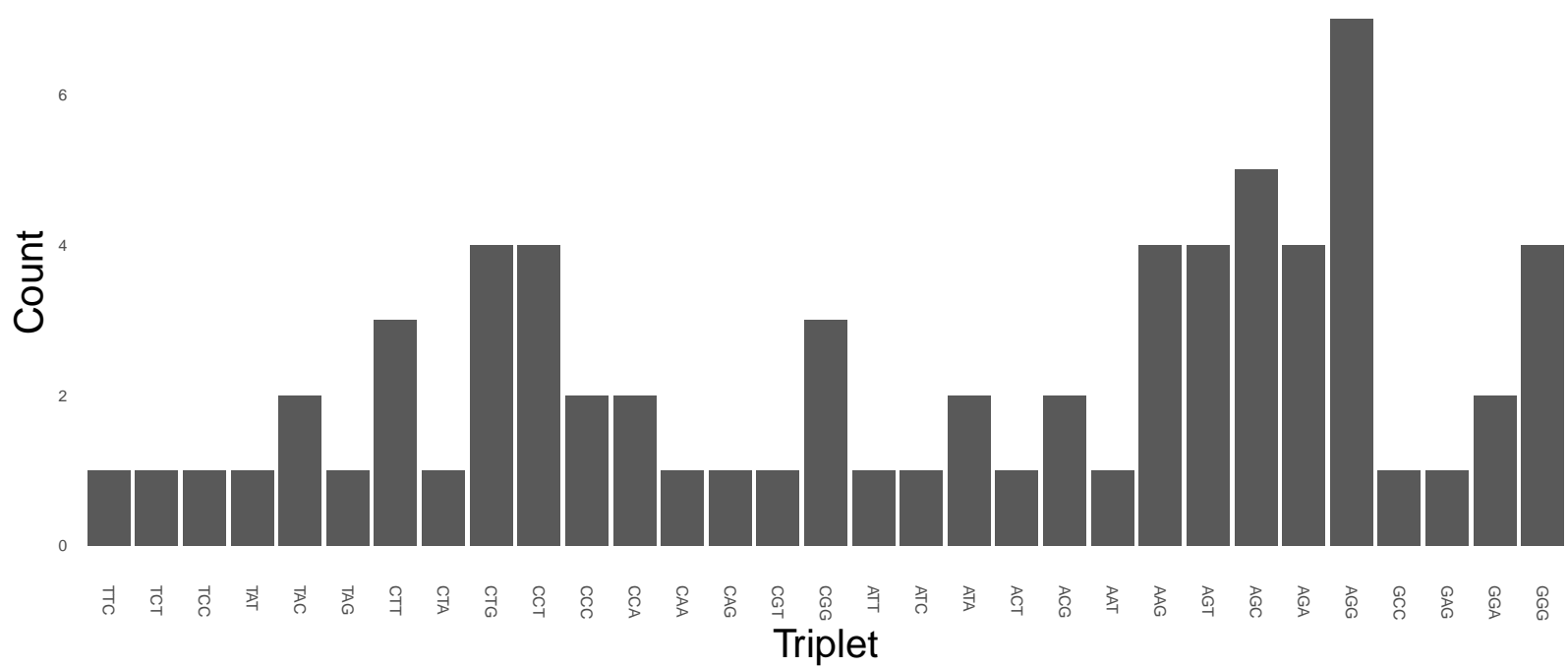
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



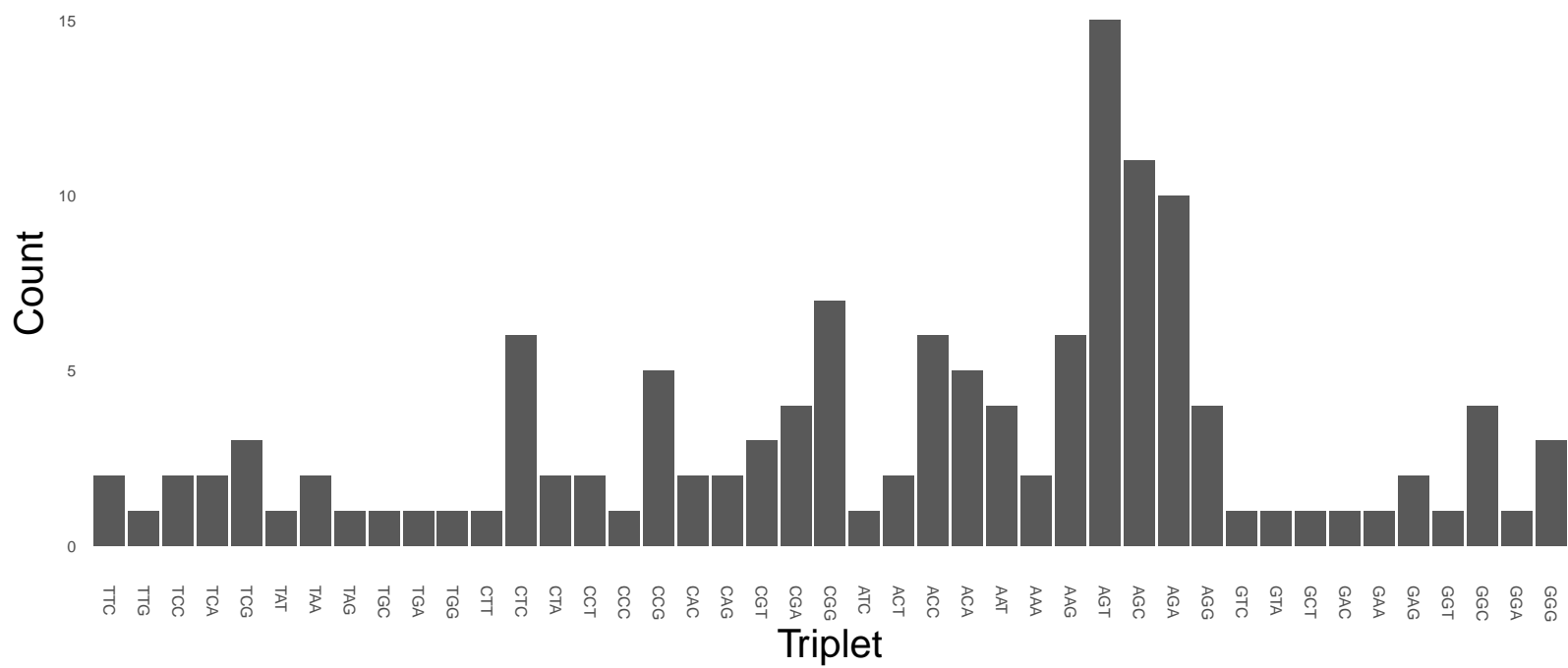
Gene TRBV7-7\*ap01\_C315T



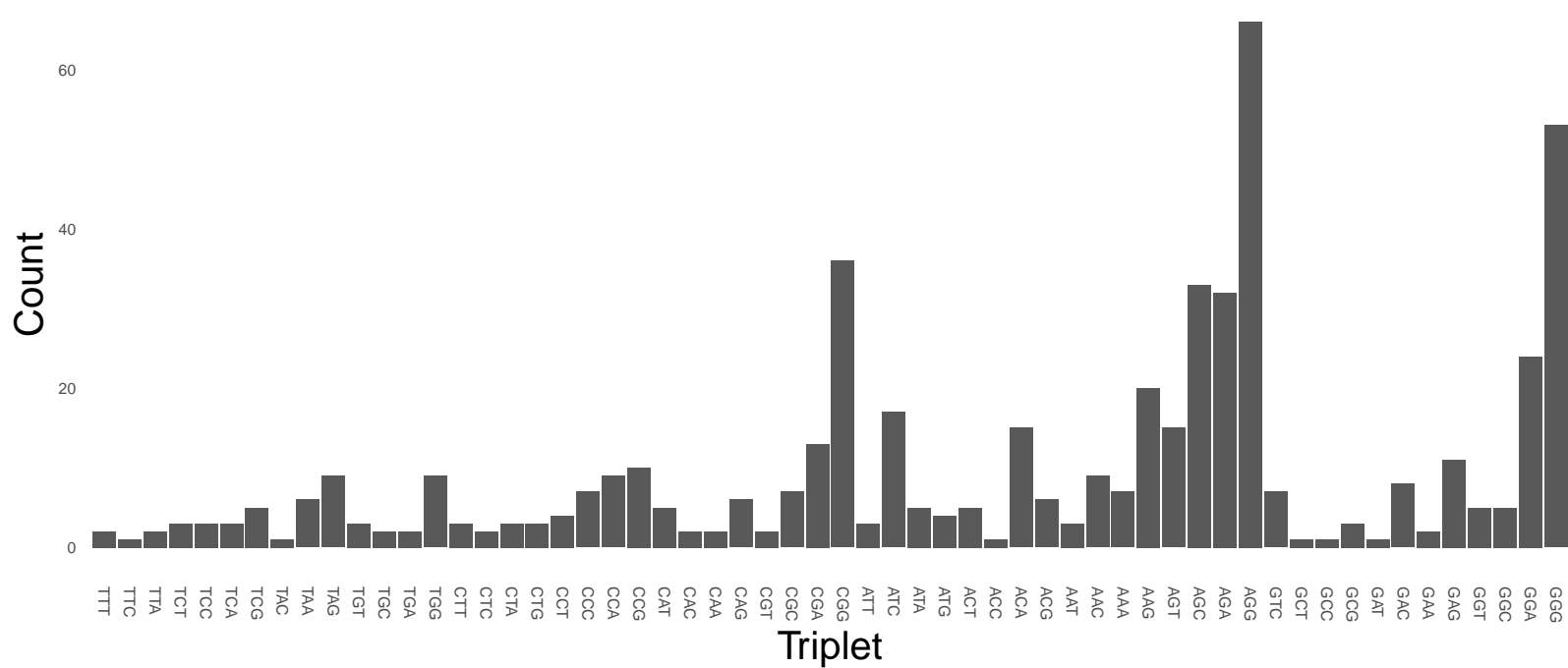
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



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

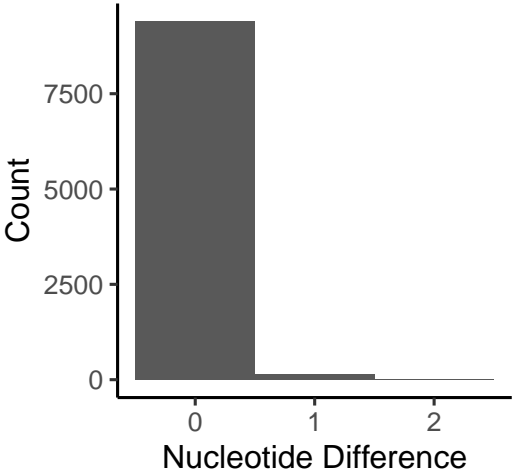


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



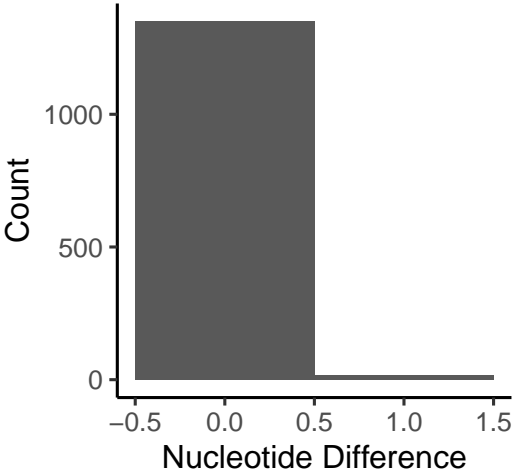
TRBV20-1\*ap01

9538 sequences assigned  
9396 (98.5%) exact matches, in which:  
9237 unique CDR3  
14 unique J



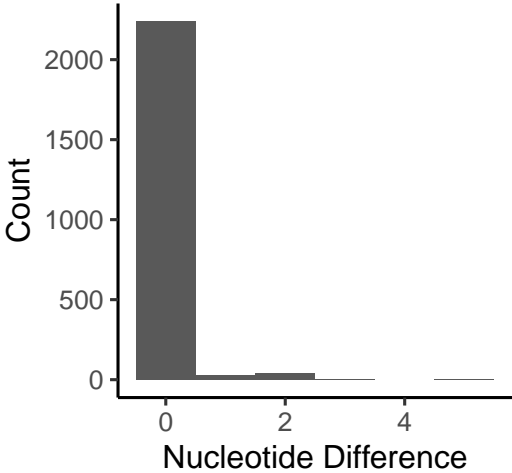
TRBV10-2\*ap01

1367 sequences assigned  
1350 (98.8%) exact matches, in which:  
1331 unique CDR3  
14 unique J



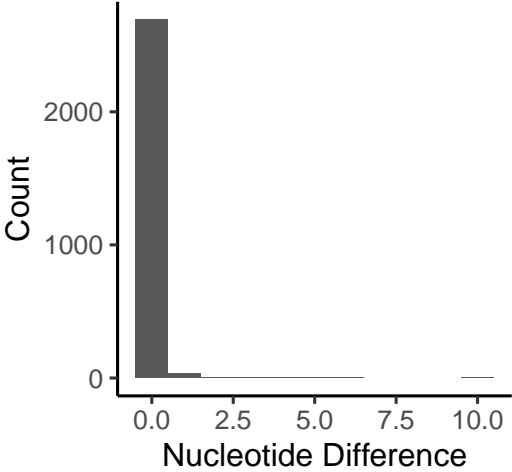
TRBV13\*ap01

2312 sequences assigned  
2239 (96.8%) exact matches, in which:  
2184 unique CDR3  
14 unique J



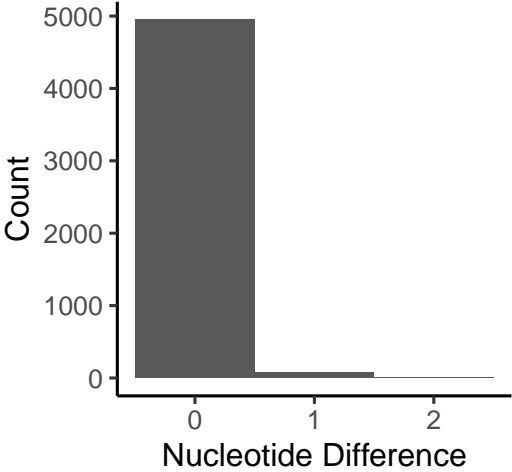
TRBV10-1\*ap01

2735 sequences assigned  
2692 (98.4%) exact matches, in which:  
2643 unique CDR3  
14 unique J



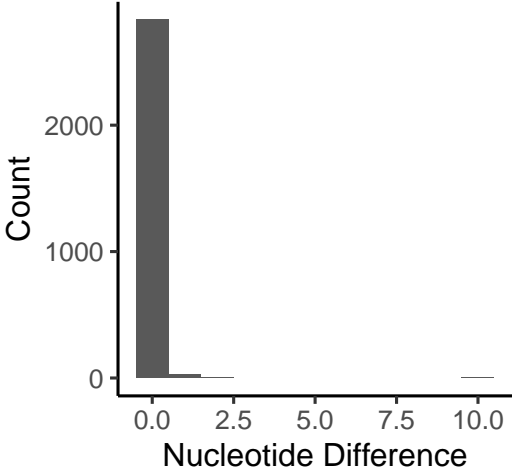
TRBV10-3\*ap01

5030 sequences assigned  
4949 (98.4%) exact matches, in which:  
4873 unique CDR3  
14 unique J



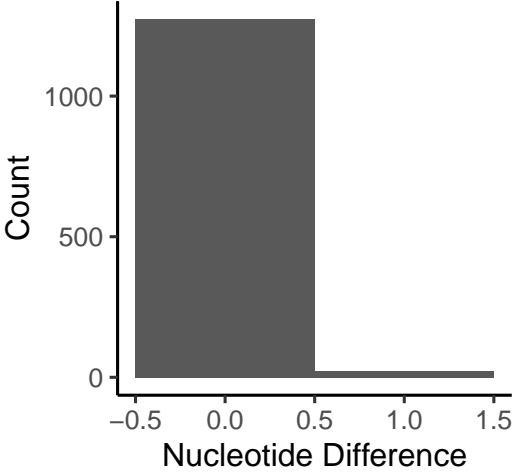
TRBV14\*ap01

2866 sequences assigned  
2834 (98.9%) exact matches, in which:  
2790 unique CDR3  
14 unique J



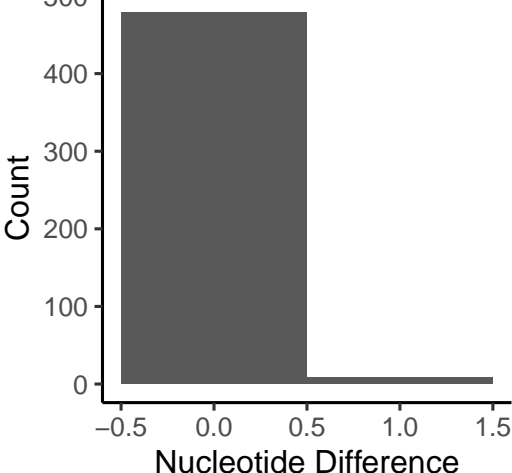
TRBV20-1\*ap02

1297 sequences assigned  
1274 (98.2%) exact matches, in which:  
1257 unique CDR3  
14 unique J



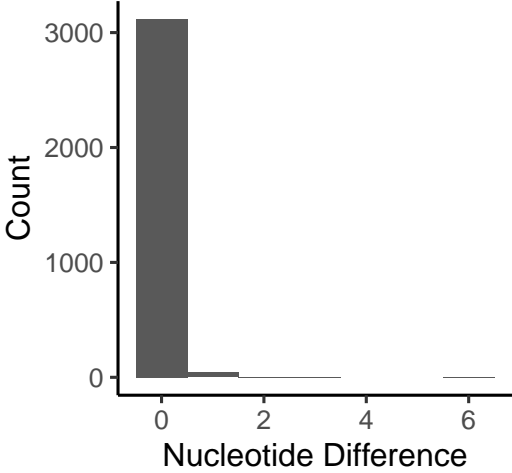
TRBV1\*ap01

488 sequences assigned  
479 (98.2%) exact matches, in which:  
475 unique CDR3  
14 unique J



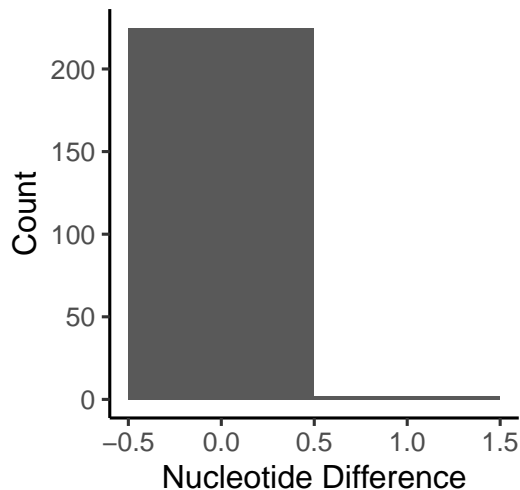
TRBV15\*ap02

3164 sequences assigned  
3118 (98.5%) exact matches, in which:  
3062 unique CDR3  
14 unique J



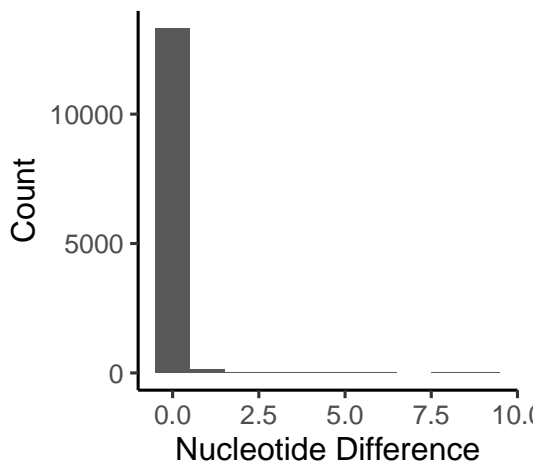
### TRBV16\*ap01

227 sequences assigned  
225 (99.1%) exact matches, in which:  
221 unique CDR3  
14 unique J



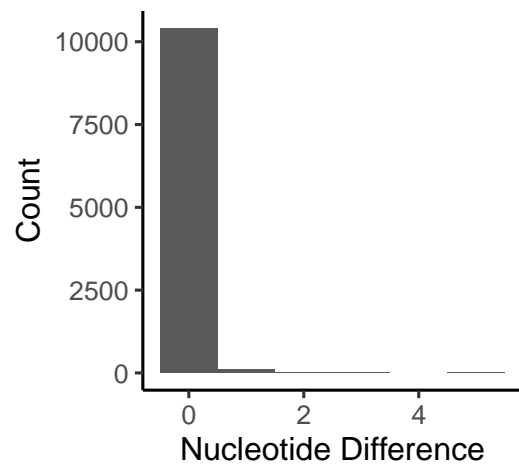
### TRBV19\*ap01

13482 sequences assigned  
13322 (98.8%) exact matches, in which:  
13172 unique CDR3  
14 unique J



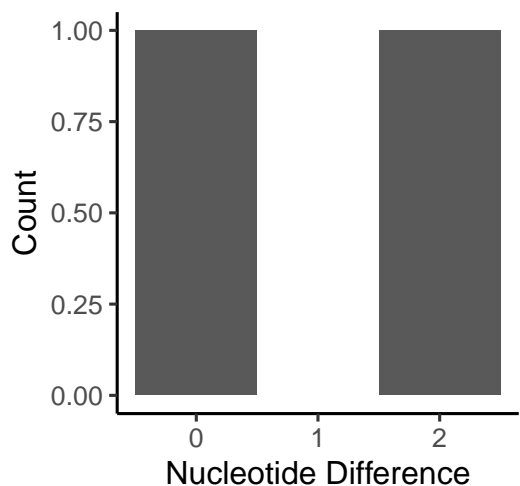
### TRBV28\*ap01

10520 sequences assigned  
10410 (99%) exact matches, in which:  
10258 unique CDR3  
14 unique J



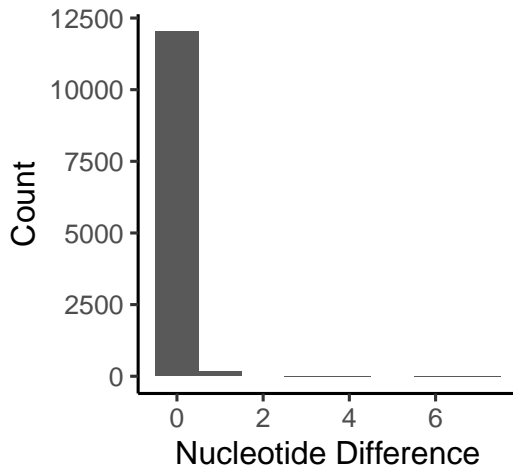
### TRBV17\*ap01

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



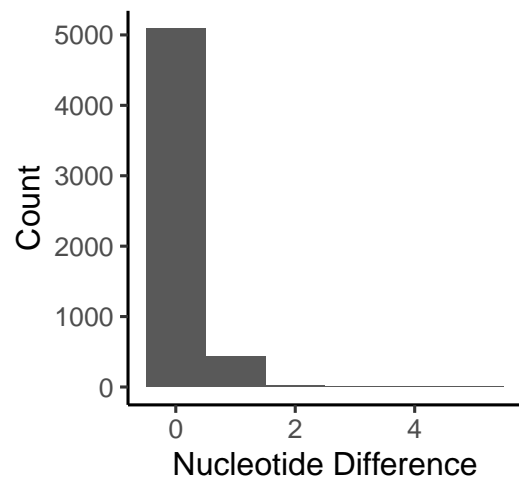
### TRBV2\*ap01

12203 sequences assigned  
12031 (98.6%) exact matches, in which:  
11851 unique CDR3  
14 unique J



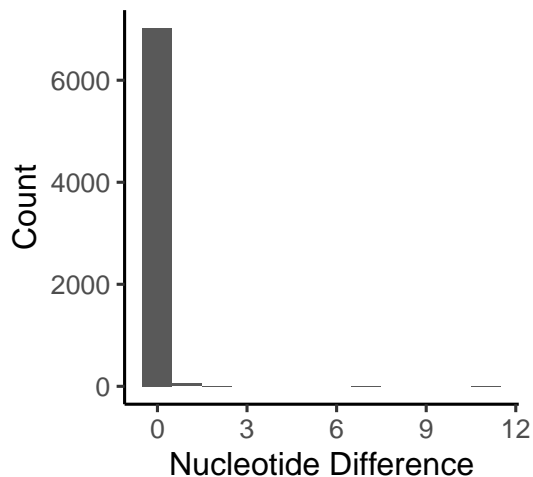
### TRBV30\*ap01

5544 sequences assigned  
5088 (91.8%) exact matches, in which:  
5014 unique CDR3  
14 unique J



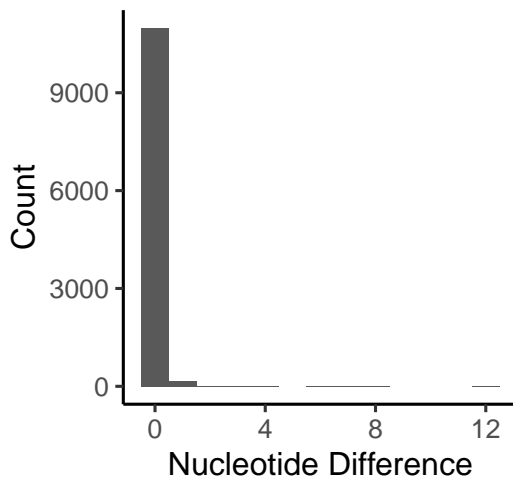
### TRBV18\*ap01

7084 sequences assigned  
7023 (99.1%) exact matches, in which:  
6918 unique CDR3  
14 unique J



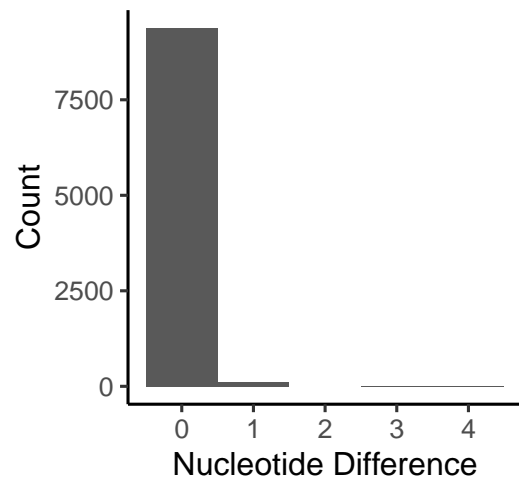
### TRBV27\*ap01

11169 sequences assigned  
10984 (98.3%) exact matches, in which:  
10765 unique CDR3  
14 unique J



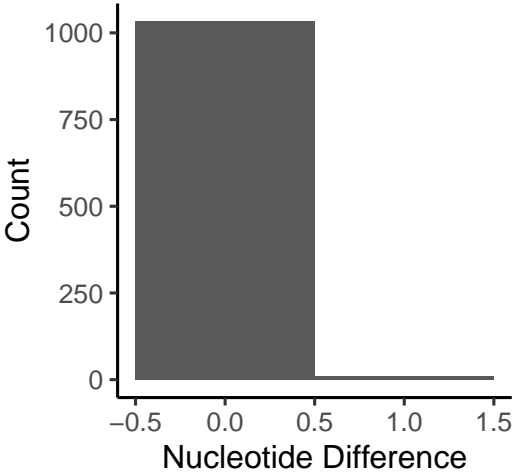
### TRBV9\*ap01

9497 sequences assigned  
9378 (98.7%) exact matches, in which:  
9229 unique CDR3  
14 unique J



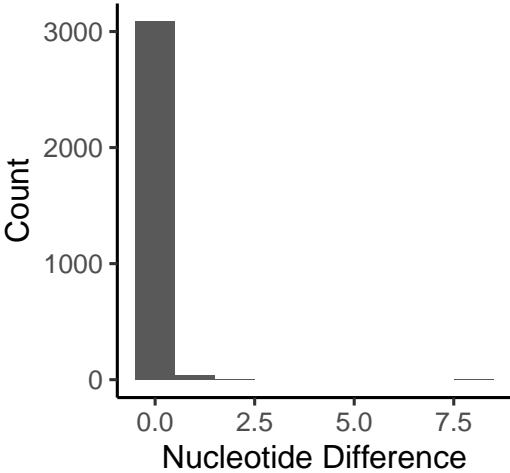
TRBV11-1\*ap01

1043 sequences assigned  
1033 (99%) exact matches, in which:  
1015 unique CDR3  
14 unique J



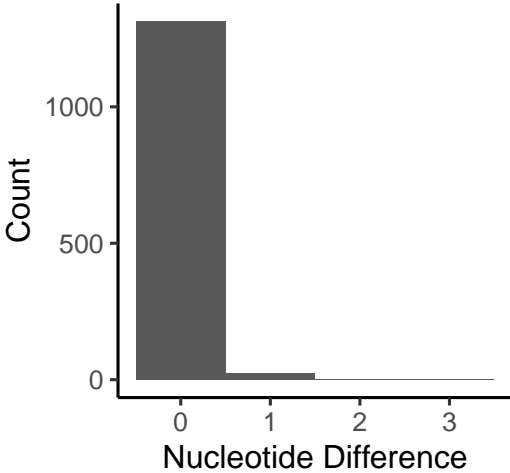
TRBV11-3\*ap01

3125 sequences assigned  
3087 (98.8%) exact matches, in which:  
3028 unique CDR3  
14 unique J



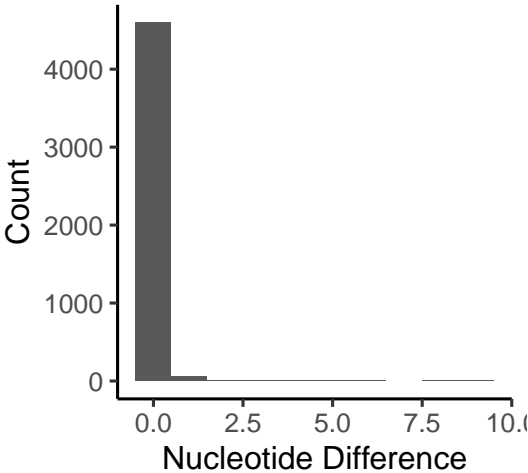
TRBV12-5\*ap01

1339 sequences assigned  
1313 (98.1%) exact matches, in which:  
1296 unique CDR3  
14 unique J



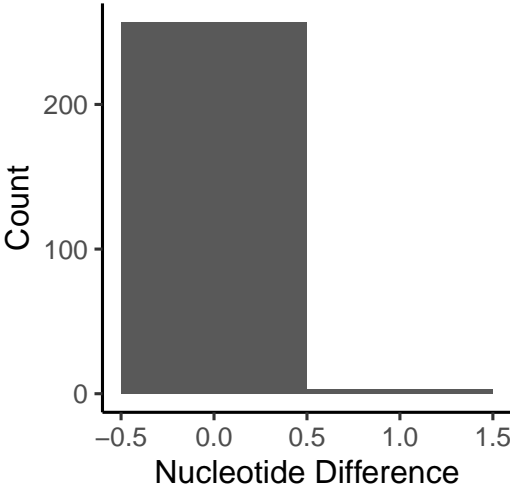
TRBV21-1\*ap01

4679 sequences assigned  
4596 (98.2%) exact matches, in which:  
4496 unique CDR3  
14 unique J



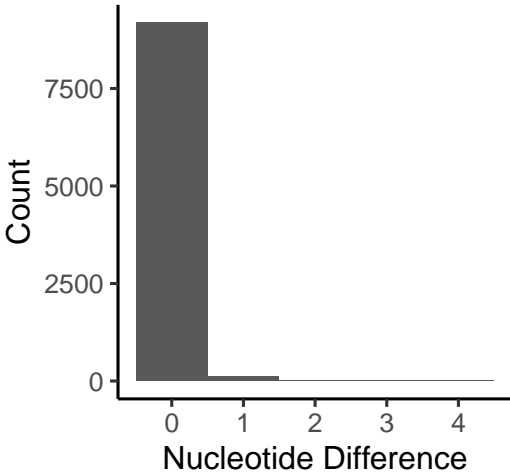
TRBV12-1\*ap01

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



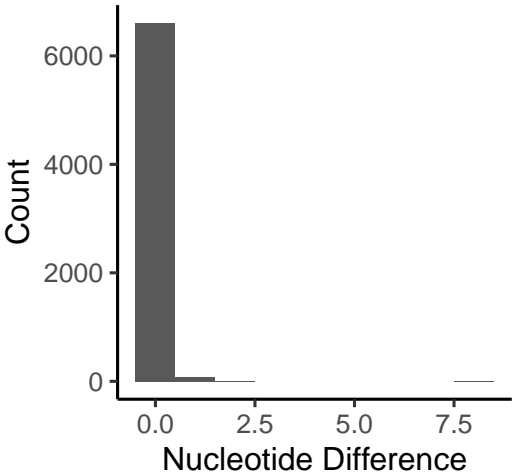
TRBV12-34\*ap01

9301 sequences assigned  
9187 (98.8%) exact matches, in which:  
9055 unique CDR3  
14 unique J



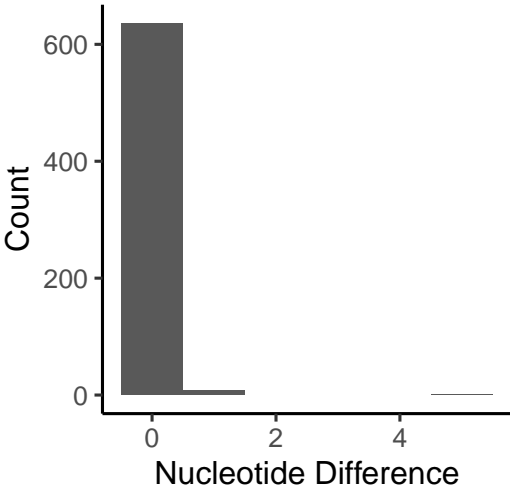
TRBV11-2\*ap01

6685 sequences assigned  
6605 (98.8%) exact matches, in which:  
6473 unique CDR3  
14 unique J



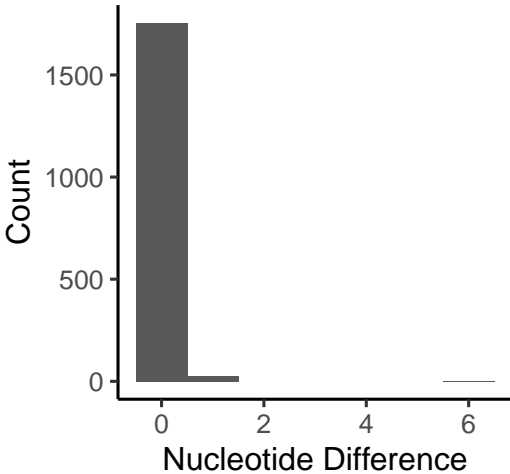
TRBV12-2\*ap01

644 sequences assigned  
636 (98.8%) exact matches, in which:  
624 unique CDR3  
14 unique J



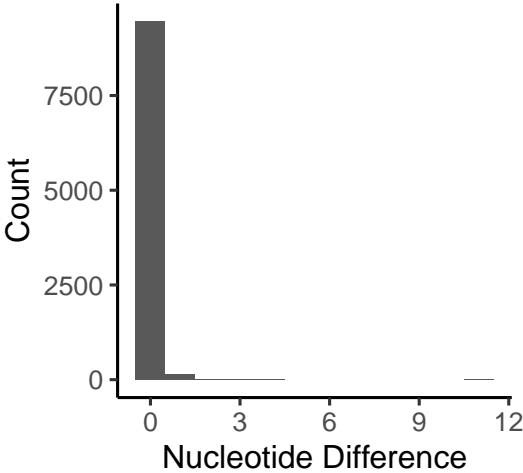
TRBV23-1\*ap01

1782 sequences assigned  
1754 (98.4%) exact matches, in which:  
1722 unique CDR3  
14 unique J



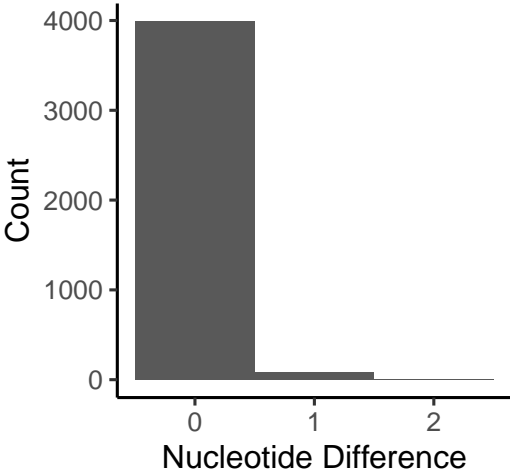
TRBV3-12\*ap01

9611 sequences assigned  
9456 (98.4%) exact matches, in which:  
9314 unique CDR3  
14 unique J



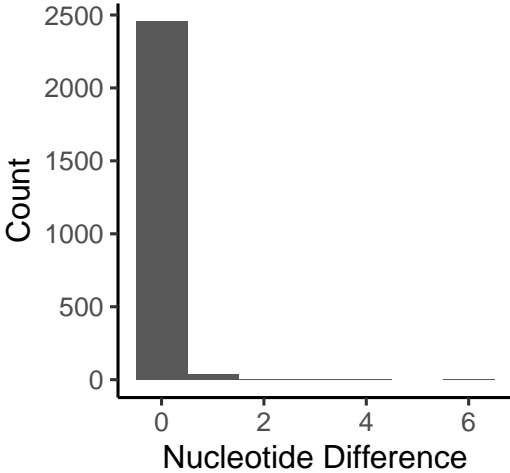
TRBV4-2\*ap01

4074 sequences assigned  
3990 (97.9%) exact matches, in which:  
3931 unique CDR3  
14 unique J



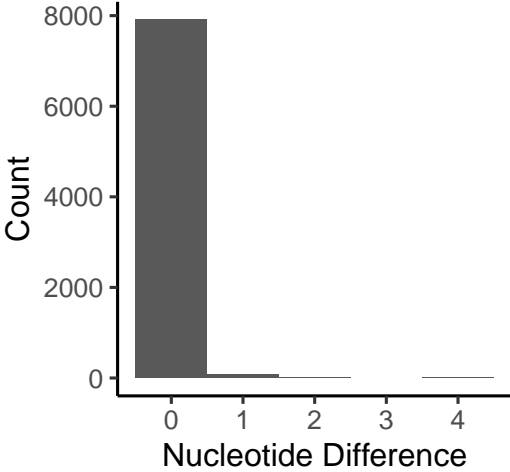
TRBV25-1\*ap01

2505 sequences assigned  
2456 (98%) exact matches, in which:  
2421 unique CDR3  
14 unique J



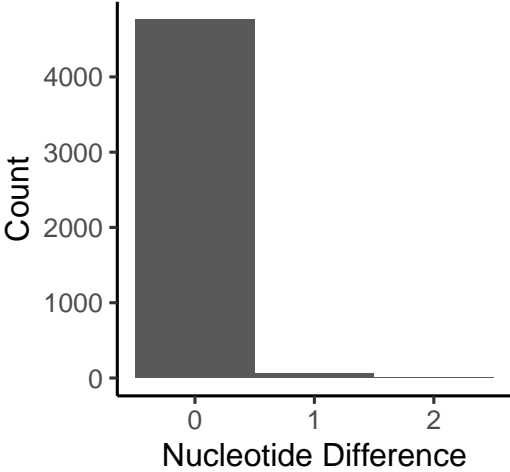
TRBV4-1\*ap01

7997 sequences assigned  
7910 (98.9%) exact matches, in which:  
7795 unique CDR3  
14 unique J



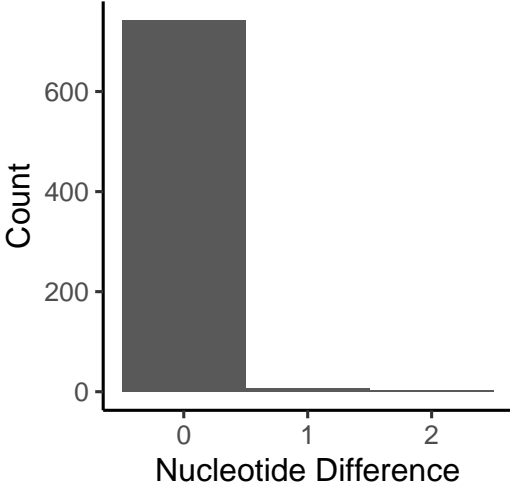
TRBV4-3\*ap01

4825 sequences assigned  
4759 (98.6%) exact matches, in which:  
4666 unique CDR3  
14 unique J



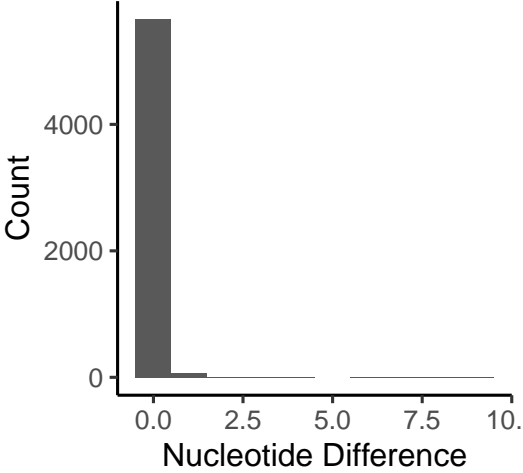
TRBV5-3\*ap01

753 sequences assigned  
743 (98.7%) exact matches, in which:  
727 unique CDR3  
14 unique J



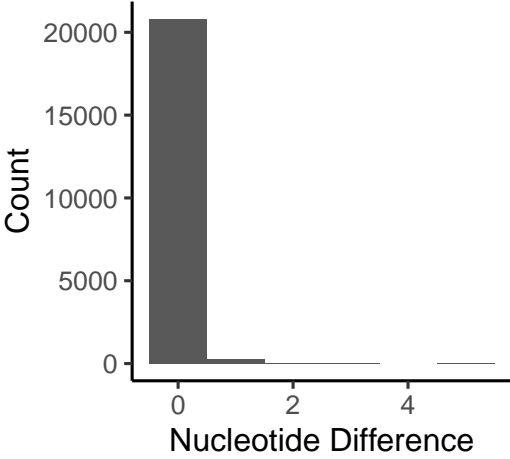
TRBV24-1\*ap01

5749 sequences assigned  
5666 (98.6%) exact matches, in which:  
5589 unique CDR3  
14 unique J



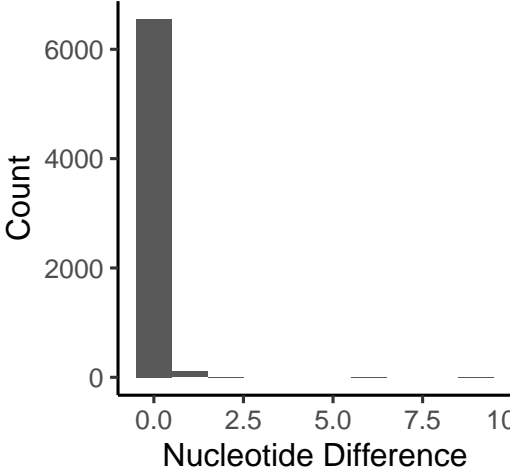
TRBV5-1\*ap01

21079 sequences assigned  
20816 (98.8%) exact matches, in which:  
20419 unique CDR3  
14 unique J



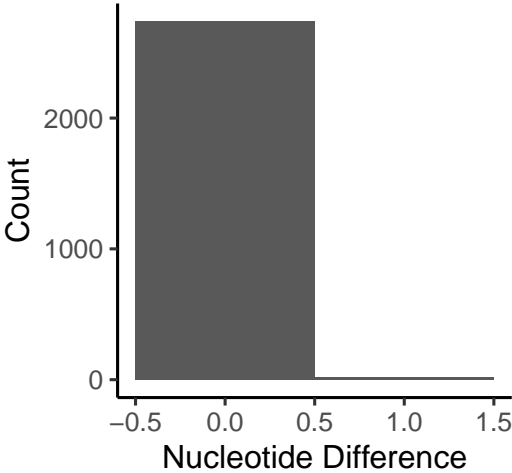
TRBV5-4\*ap01

6668 sequences assigned  
6553 (98.3%) exact matches, in which:  
6417 unique CDR3  
14 unique J



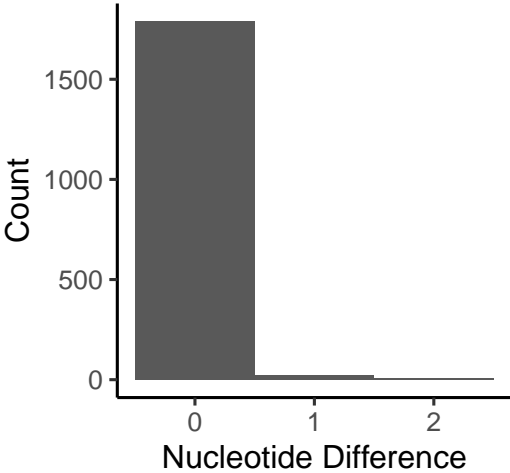
TRBV5-5\*ap01

2759 sequences assigned  
2739 (99.3%) exact matches, in which:  
2712 unique CDR3  
14 unique J



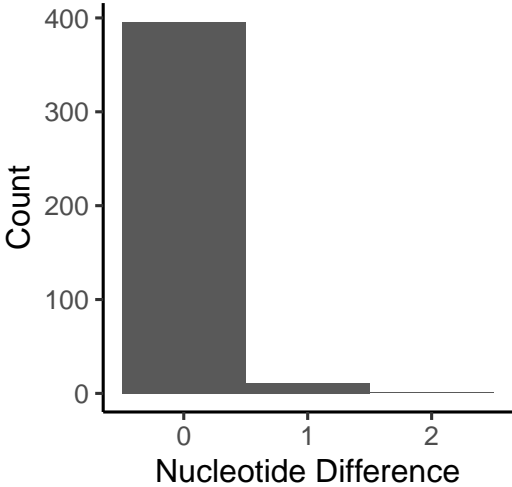
TRBV5-8\*ap01

1817 sequences assigned  
1789 (98.5%) exact matches, in which:  
1758 unique CDR3  
14 unique J



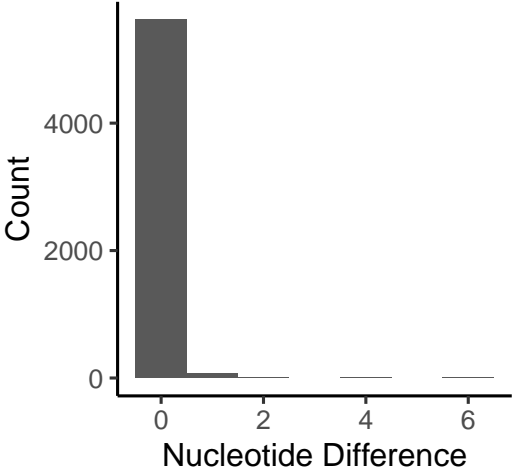
TRBV6-7\*ap01

408 sequences assigned  
396 (97.1%) exact matches, in which:  
386 unique CDR3  
14 unique J



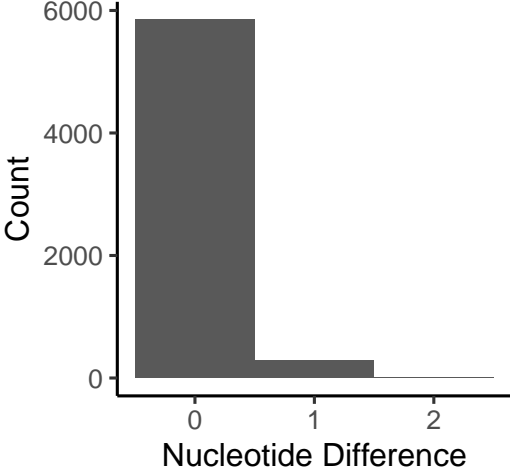
TRBV5-6\*ap01

5699 sequences assigned  
5623 (98.7%) exact matches, in which:  
5498 unique CDR3  
14 unique J



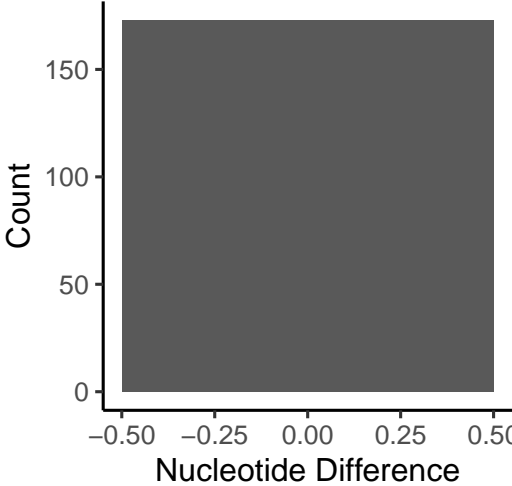
TRBV6-1\*ap01

6144 sequences assigned  
5849 (95.2%) exact matches, in which:  
5711 unique CDR3  
14 unique J



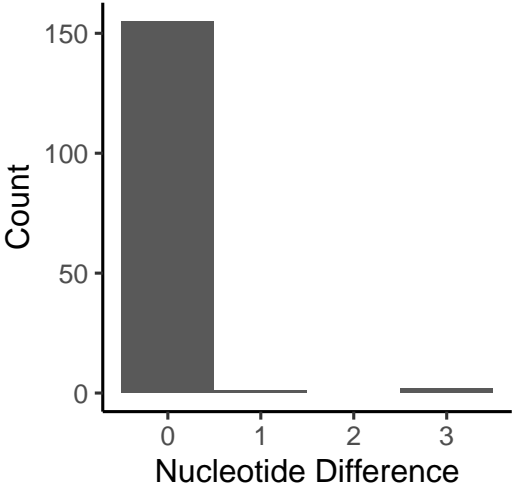
TRBV6-8\*ap01

173 sequences assigned  
173 (100%) exact matches, in which:  
168 unique CDR3  
14 unique J



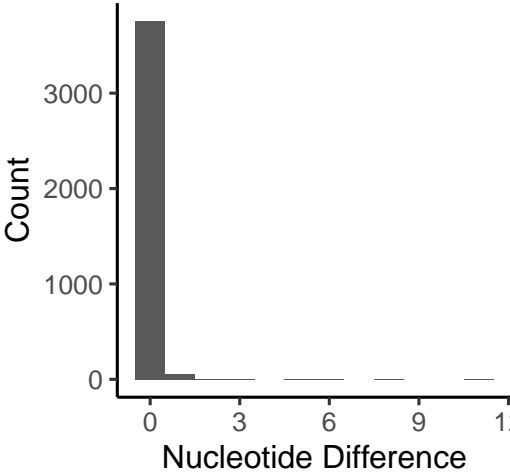
TRBV5-7\*ap01

158 sequences assigned  
155 (98.1%) exact matches, in which:  
154 unique CDR3  
14 unique J



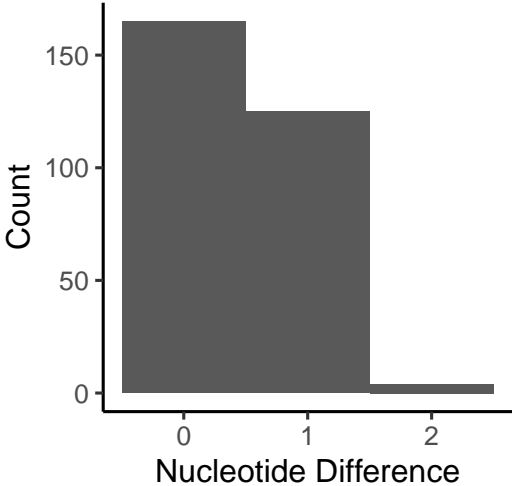
TRBV6-4\*ap01

3826 sequences assigned  
3756 (98.2%) exact matches, in which:  
3709 unique CDR3  
14 unique J



TRBV6-9\*ap01

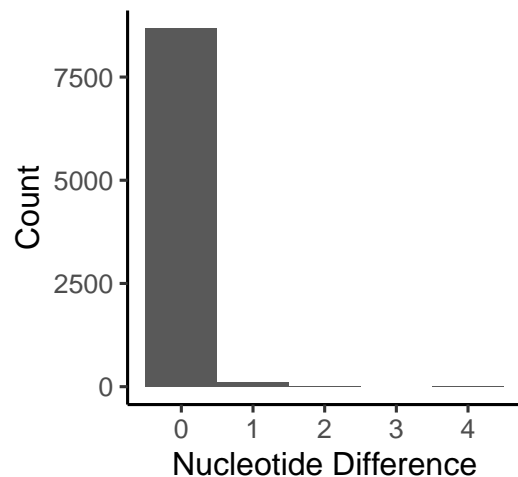
294 sequences assigned  
165 (56.1%) exact matches, in which:  
161 unique CDR3  
14 unique J





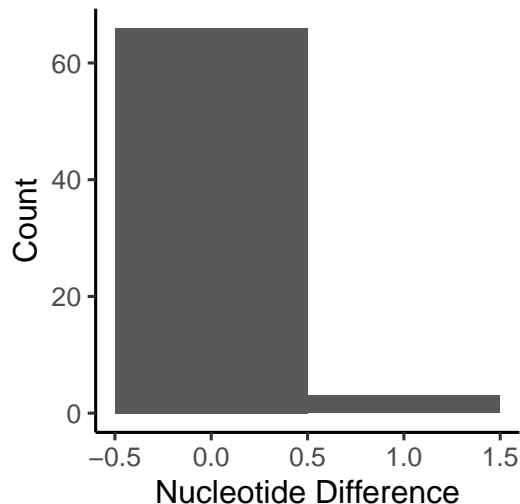
### TRBV6-23\*ap01

8796 sequences assigned  
8678 (98.7%) exact matches, in which:  
8480 unique CDR3  
14 unique J



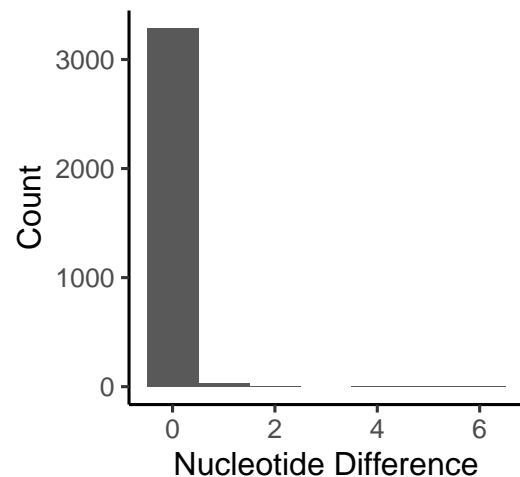
### TRBV7-1\*ap01\_G291C\_T

69 sequences assigned  
66 (95.7%) exact matches, in which:  
65 unique CDR3  
13 unique J



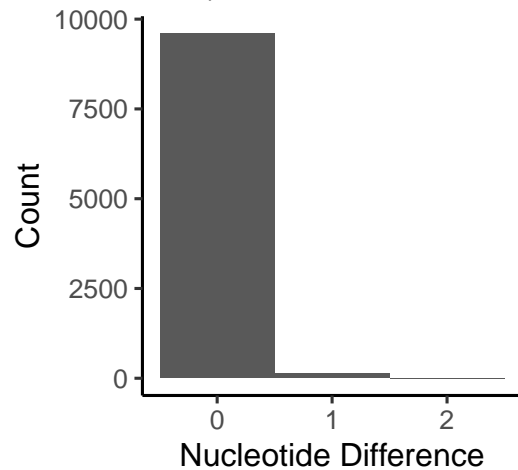
### TRBV7-3\*ap01

3321 sequences assigned  
3285 (98.9%) exact matches, in which:  
3215 unique CDR3  
13 unique J



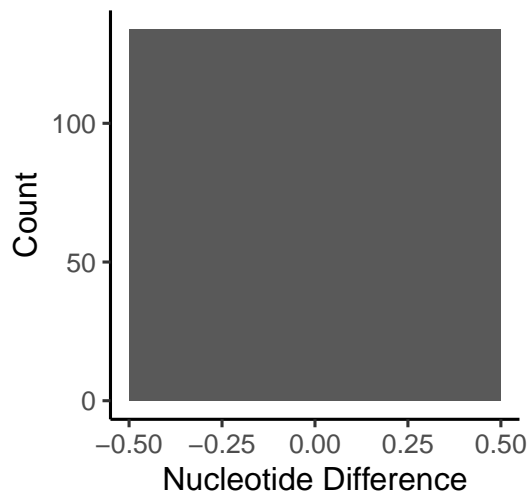
### TRBV6-56\*ap01

9745 sequences assigned  
9601 (98.5%) exact matches, in which:  
9401 unique CDR3  
14 unique J



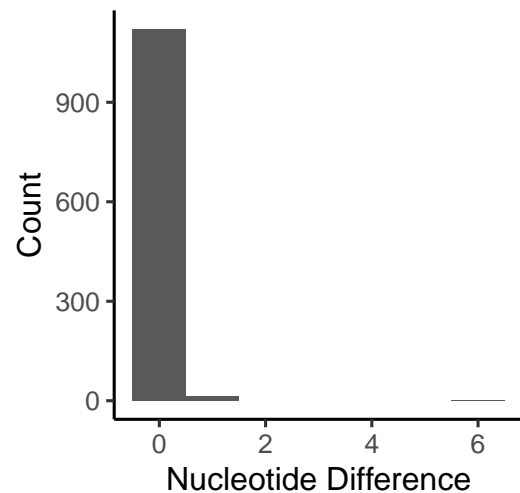
### TRBV7-1\*ap01\_G291C\_

134 sequences assigned  
134 (100%) exact matches, in which:  
132 unique CDR3  
13 unique J



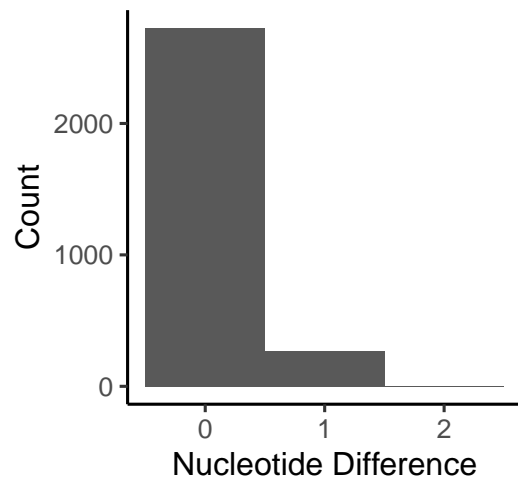
### TRBV7-3\*ap03

1137 sequences assigned  
1121 (98.6%) exact matches, in which:  
1104 unique CDR3  
13 unique J



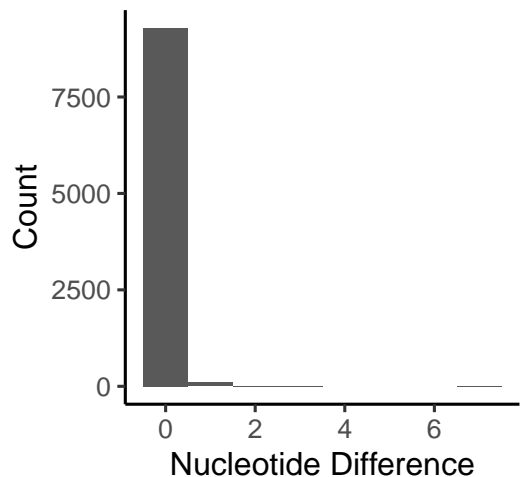
### TRBV6-56\*ap02

3000 sequences assigned  
2726 (90.9%) exact matches, in which:  
2672 unique CDR3  
14 unique J



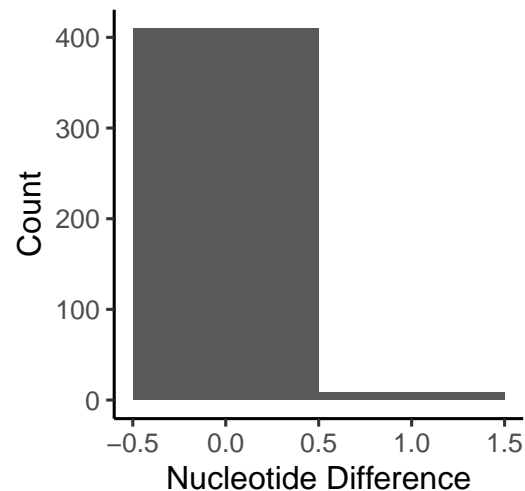
### TRBV7-2\*ap01

9393 sequences assigned  
9287 (98.9%) exact matches, in which:  
9108 unique CDR3  
14 unique J



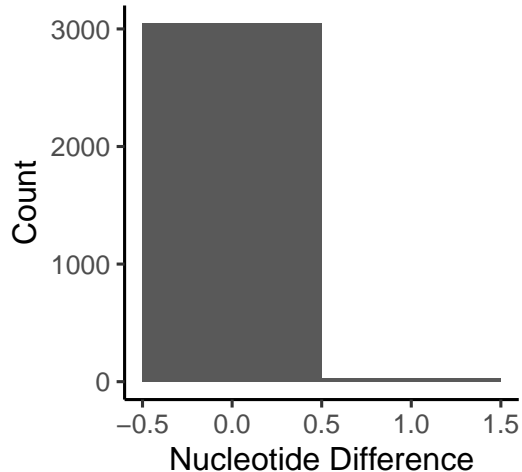
### TRBV7-4\*ap01

418 sequences assigned  
410 (98.1%) exact matches, in which:  
397 unique CDR3  
14 unique J



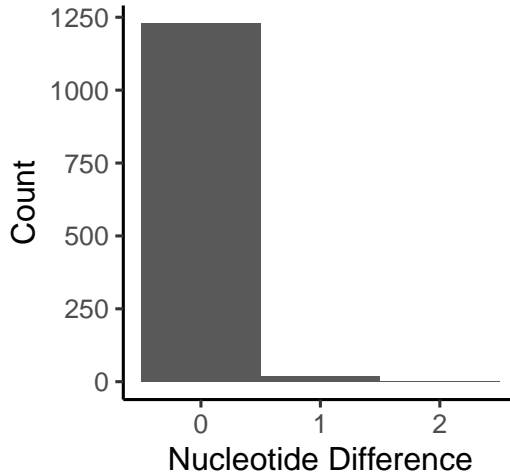
### TRBV7-6\*ap01

3079 sequences assigned  
3047 (99%) exact matches, in which:  
2998 unique CDR3  
14 unique J



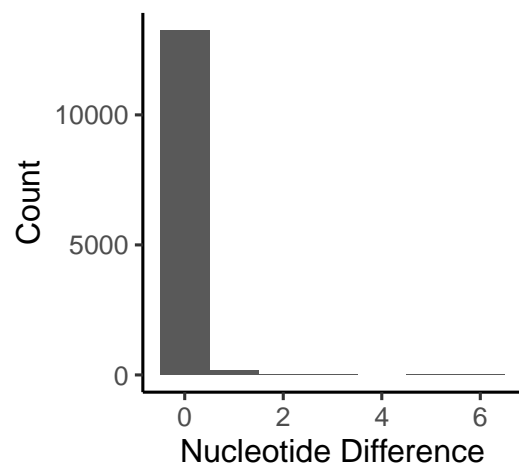
### TRBV7-8\*ap01

1250 sequences assigned  
1229 (98.3%) exact matches, in which:  
1195 unique CDR3  
13 unique J



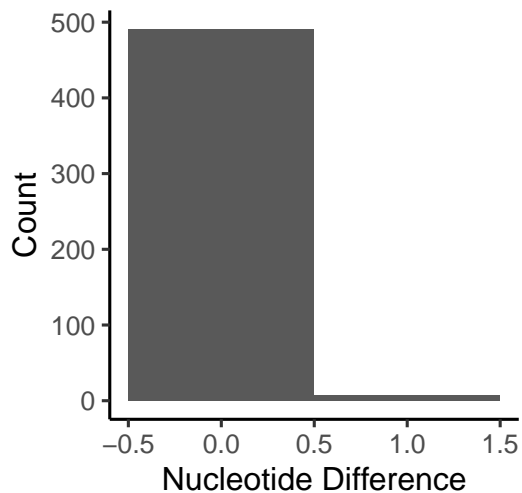
### TRBV7-9\*ap01

13437 sequences assigned  
13258 (98.7%) exact matches, in which:  
13049 unique CDR3  
14 unique J



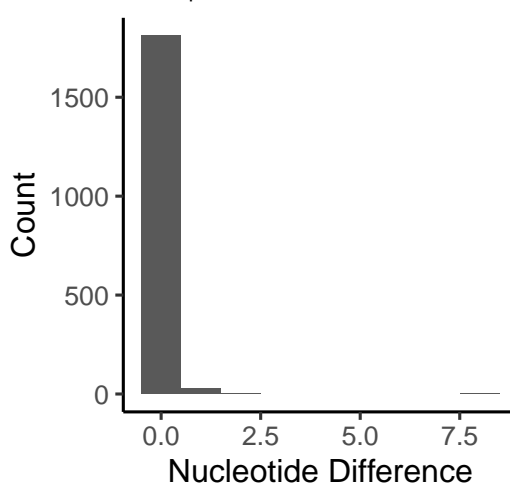
### TRBV7-7\*ap01

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



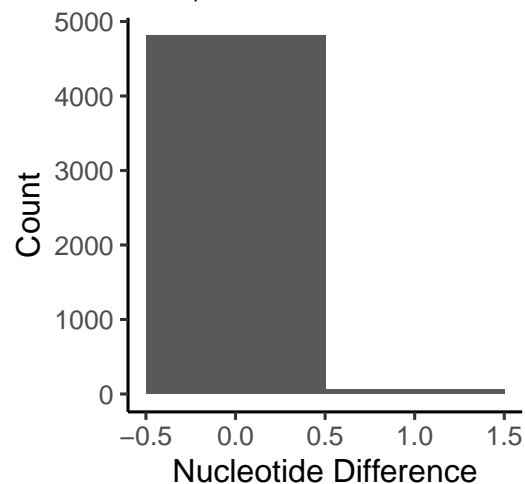
### TRBV7-8\*ap02

1842 sequences assigned  
1811 (98.3%) exact matches, in which:  
1783 unique CDR3  
14 unique J



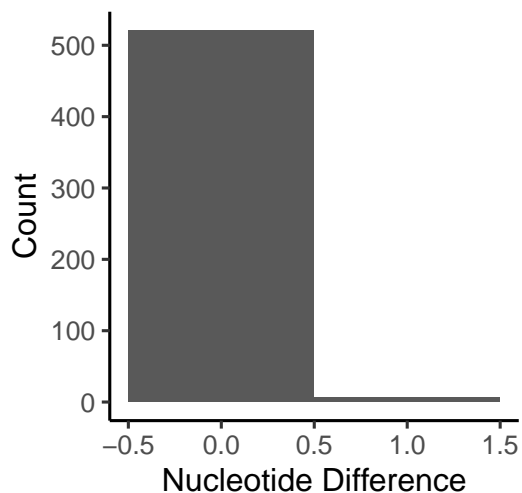
### TRBV29-1\*ap01

4865 sequences assigned  
4809 (98.8%) exact matches, in which:  
4740 unique CDR3  
14 unique J



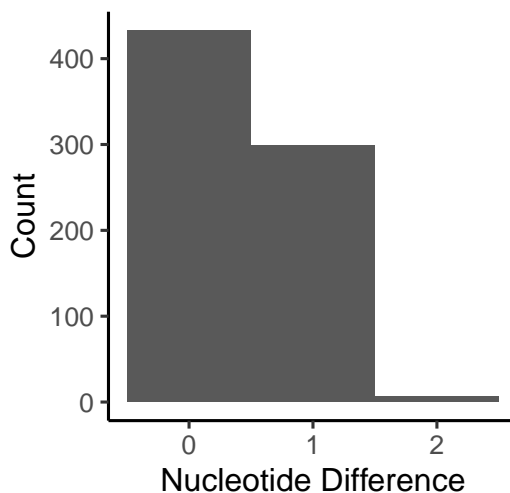
### TRBV7-7\*ap01\_C315T

527 sequences assigned  
521 (98.9%) exact matches, in which:  
508 unique CDR3  
14 unique J



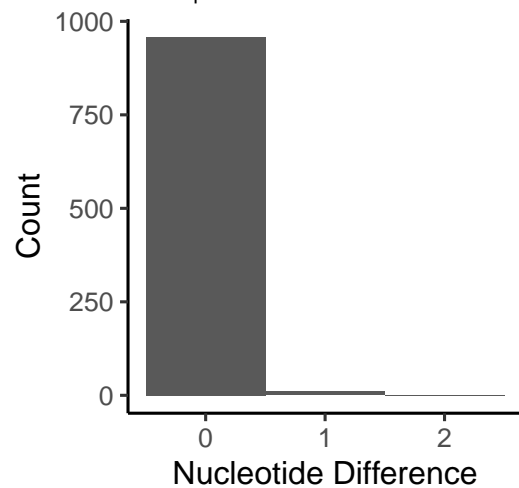
### TRBV7-8\*ap03

738 sequences assigned  
433 (58.7%) exact matches, in which:  
426 unique CDR3  
14 unique J

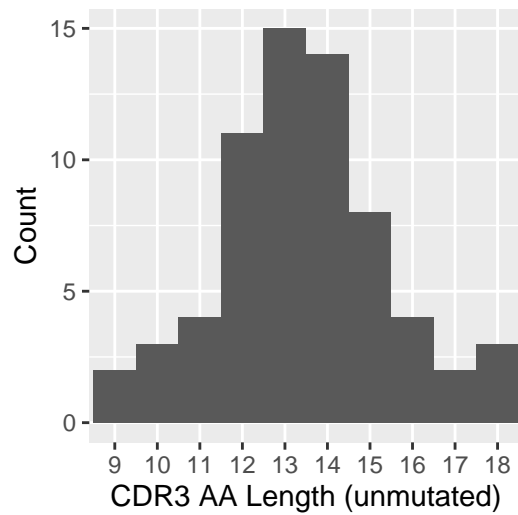


### TRBV29-1\*ap02

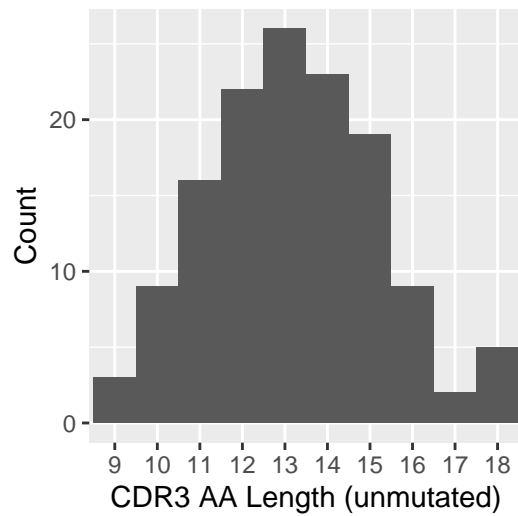
969 sequences assigned  
958 (98.9%) exact matches, in which:  
947 unique CDR3  
14 unique J



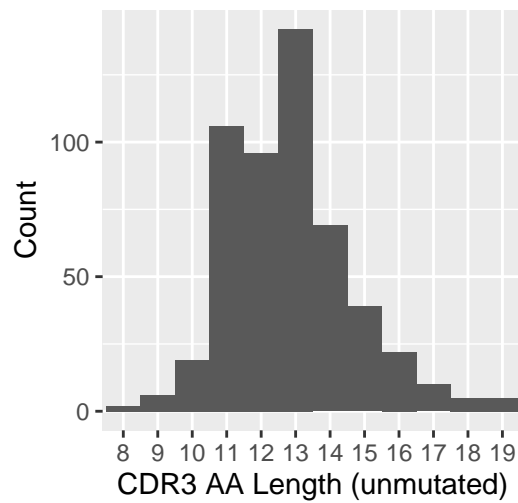
TRBV7-1\*ap01\_G291C\_T296C

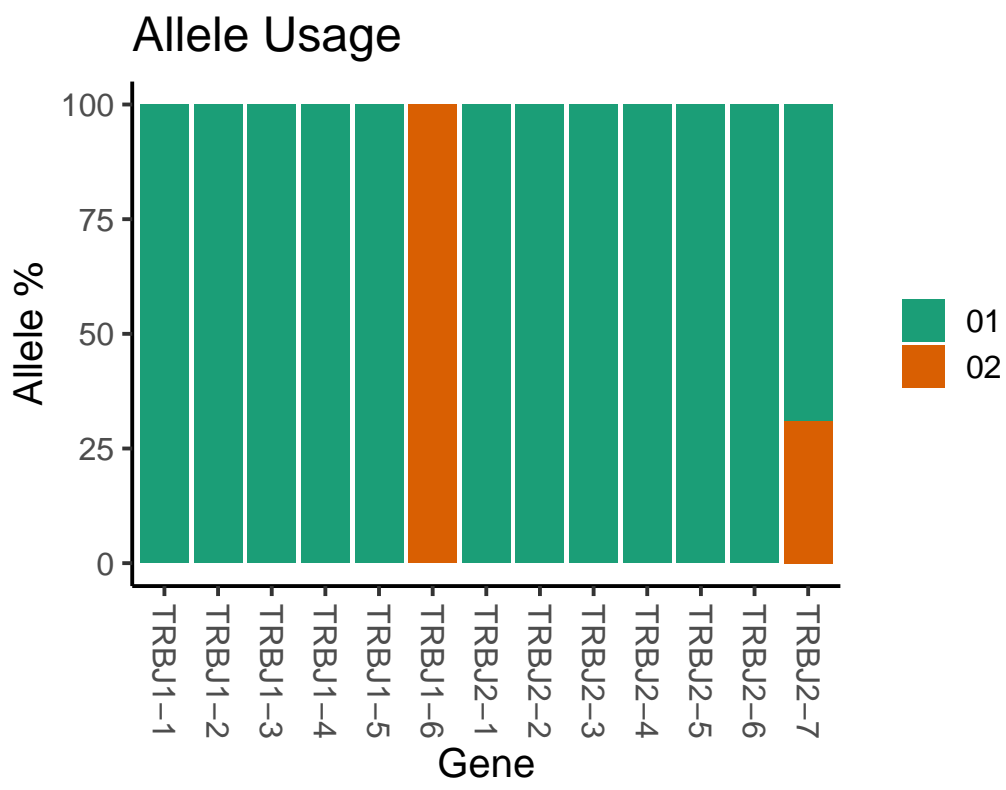


TRBV7-1\*ap01\_G291C\_T296C\_C314T

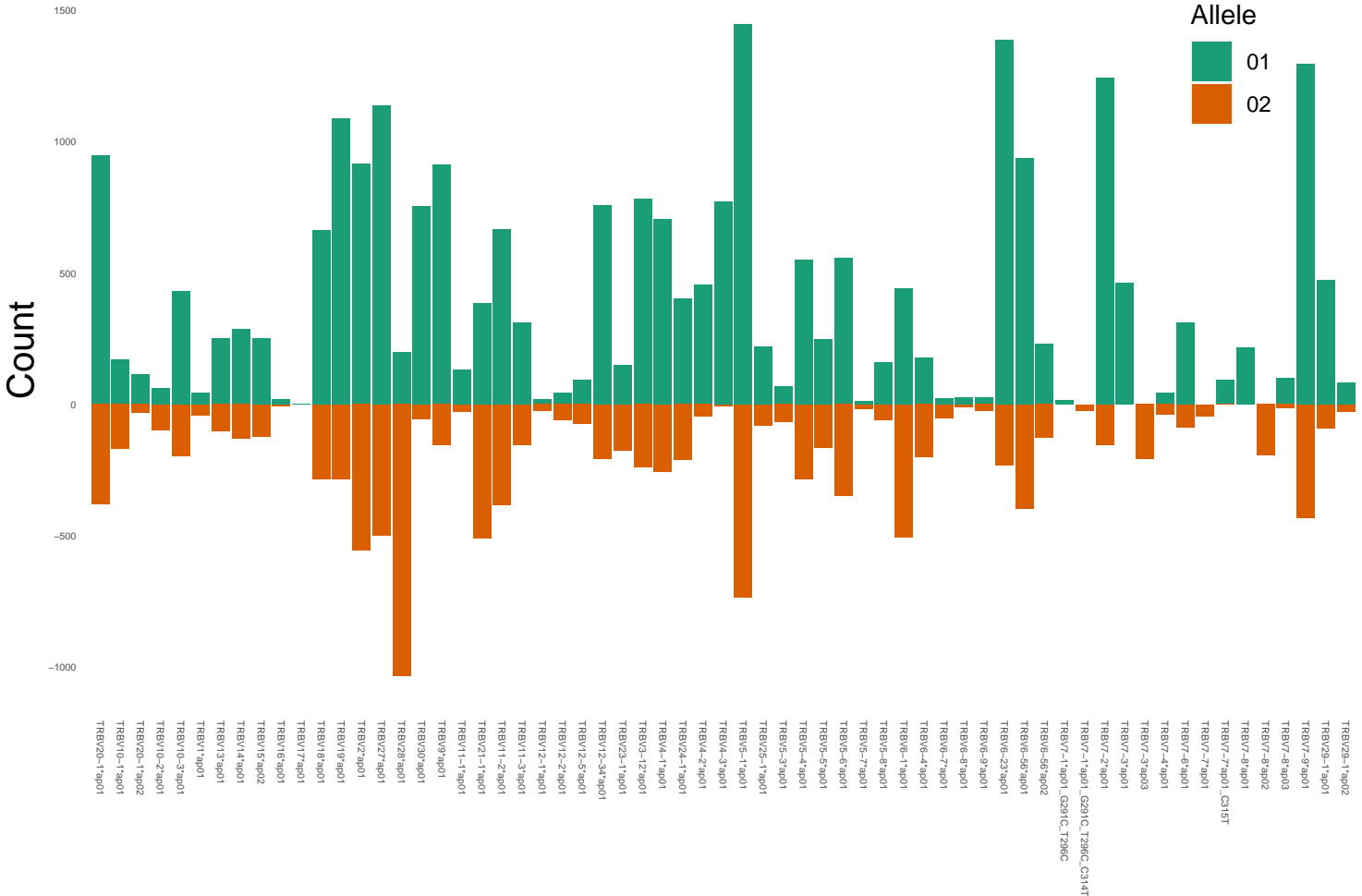


TRBV7-7\*ap01\_C315T





Sequence Count by TRBJ2–7 allele usage



[illegible]