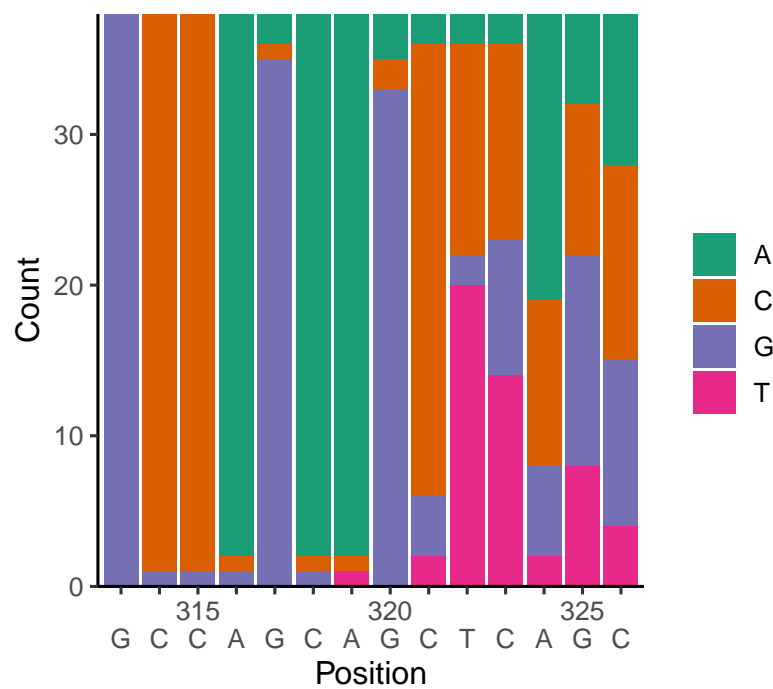
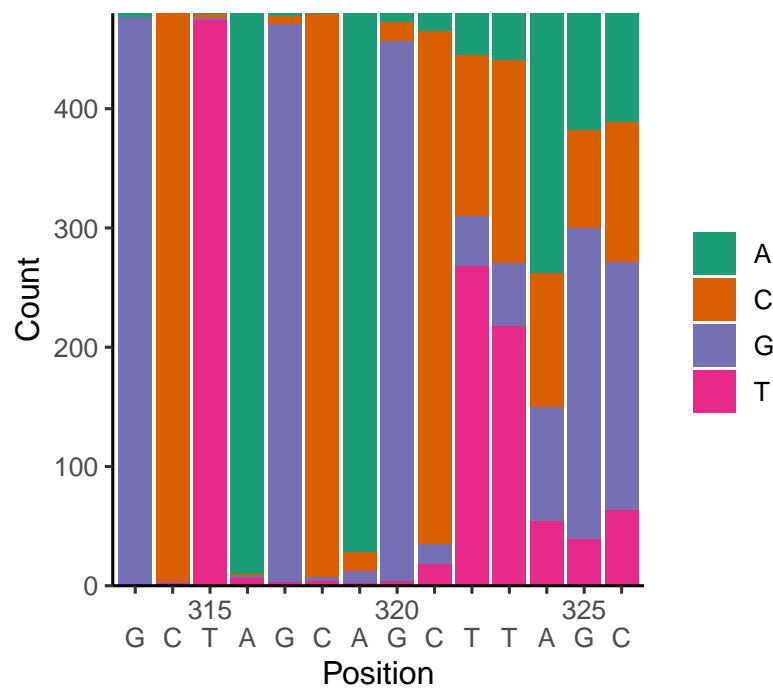


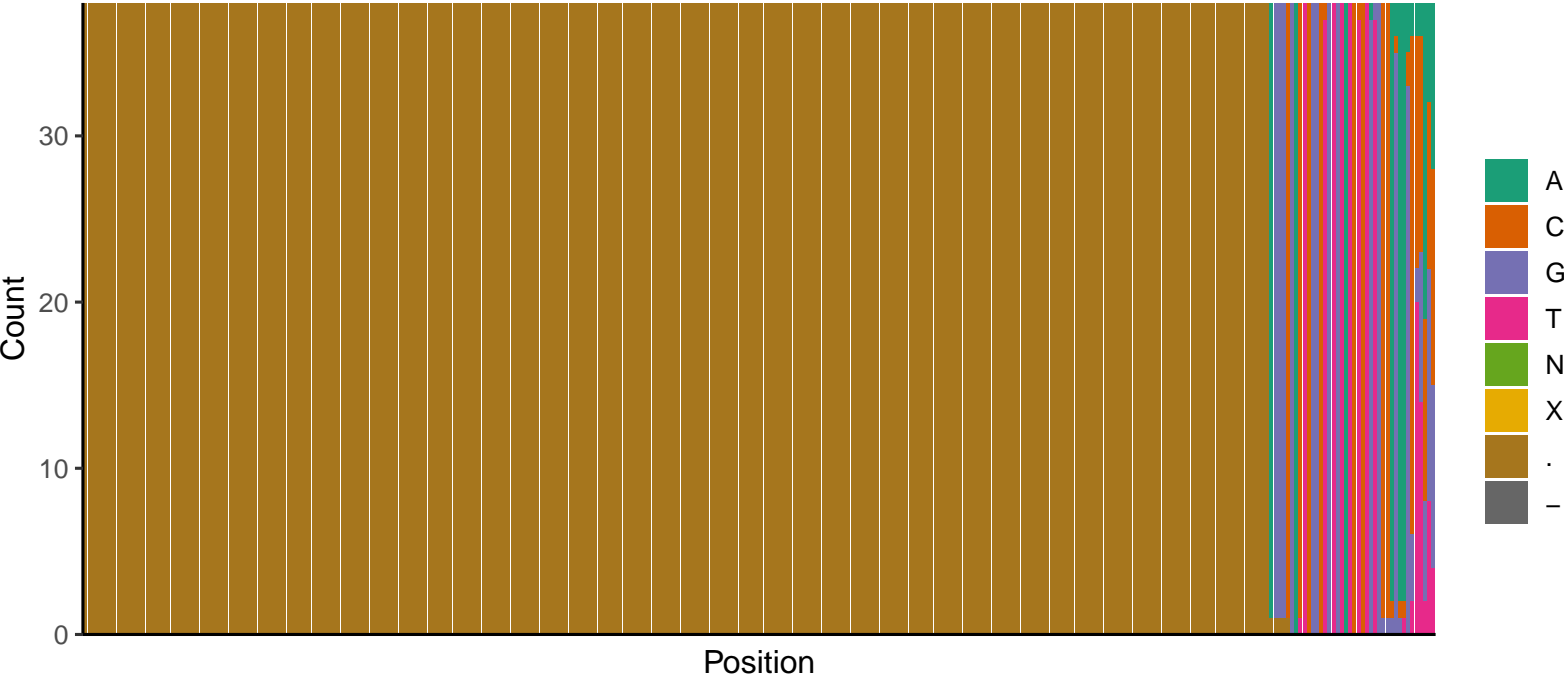
Gene TRBV7-1\*ap01\_G291C\_T296C



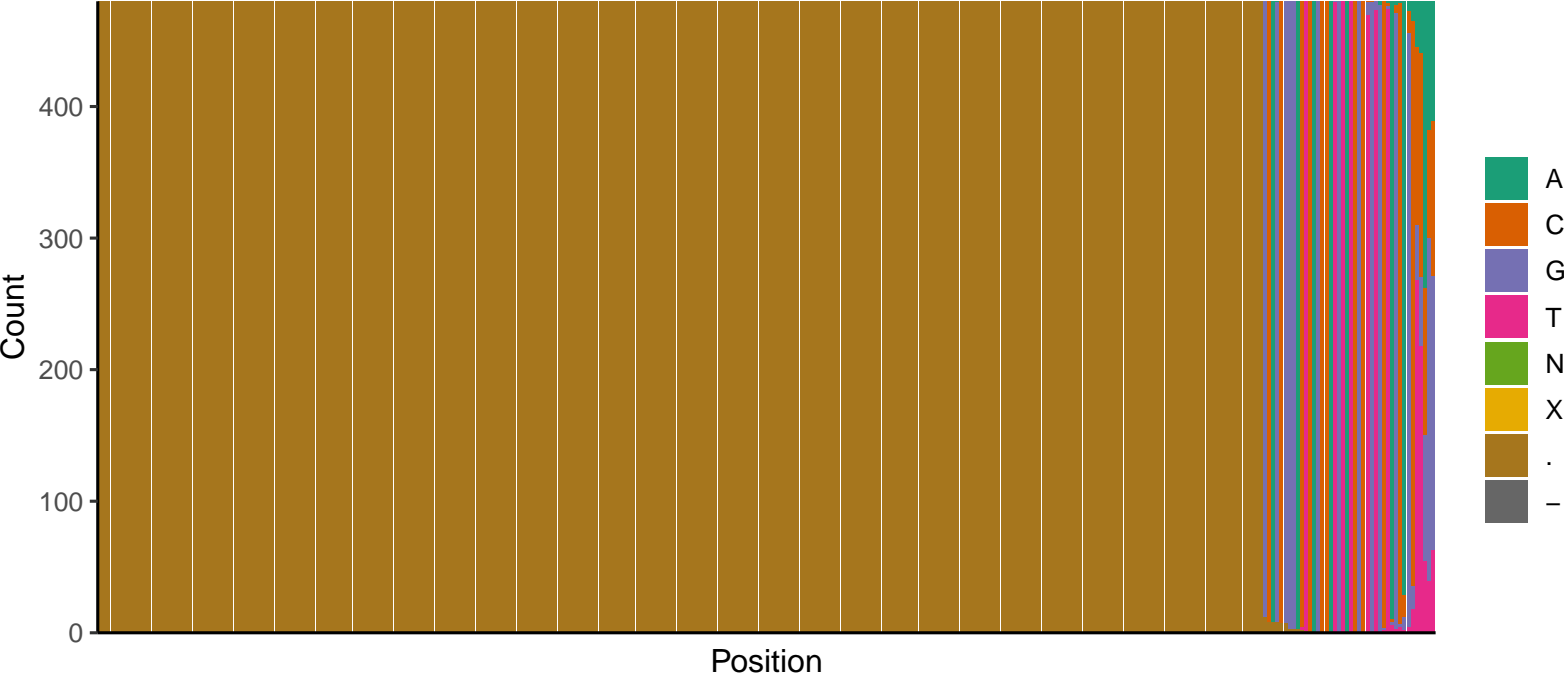
Gene TRBV7-7\*ap01\_C315T



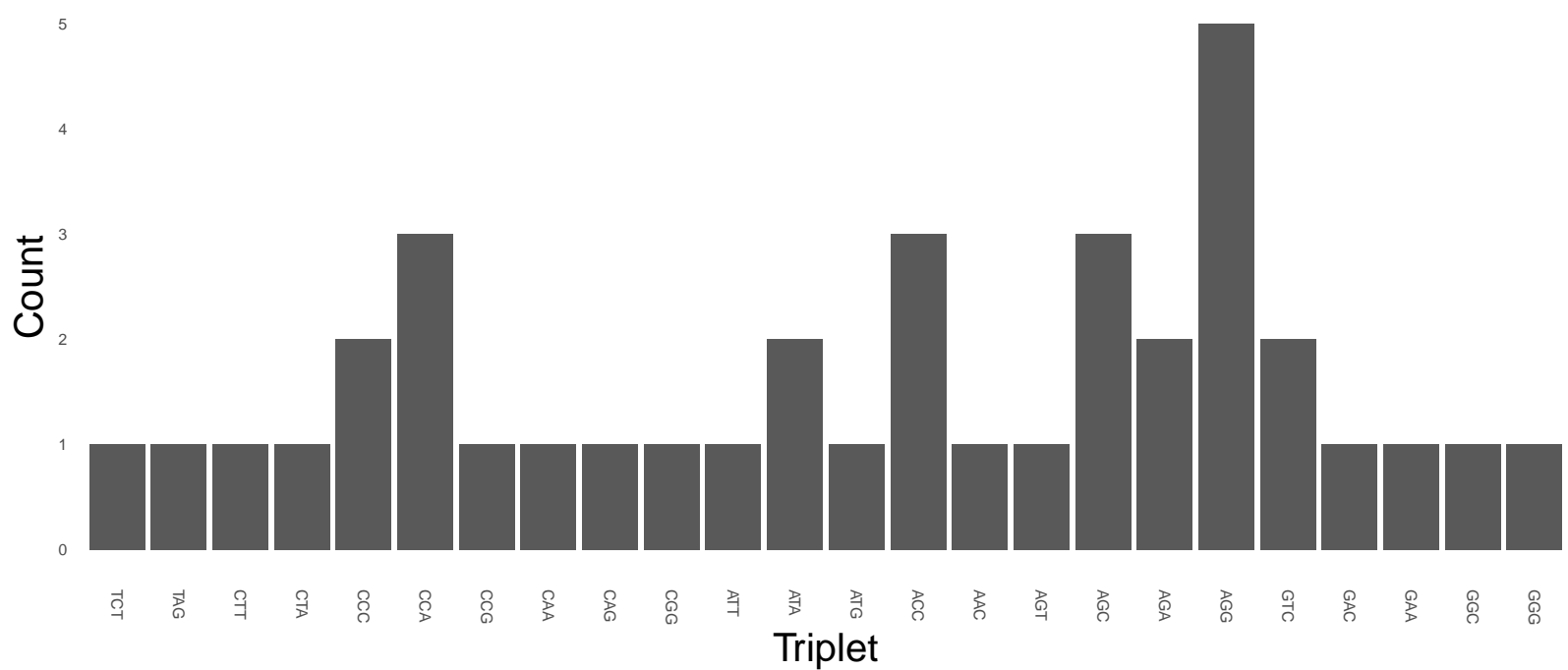
Gene TRBV7-1\*ap01\_G291C\_T296C



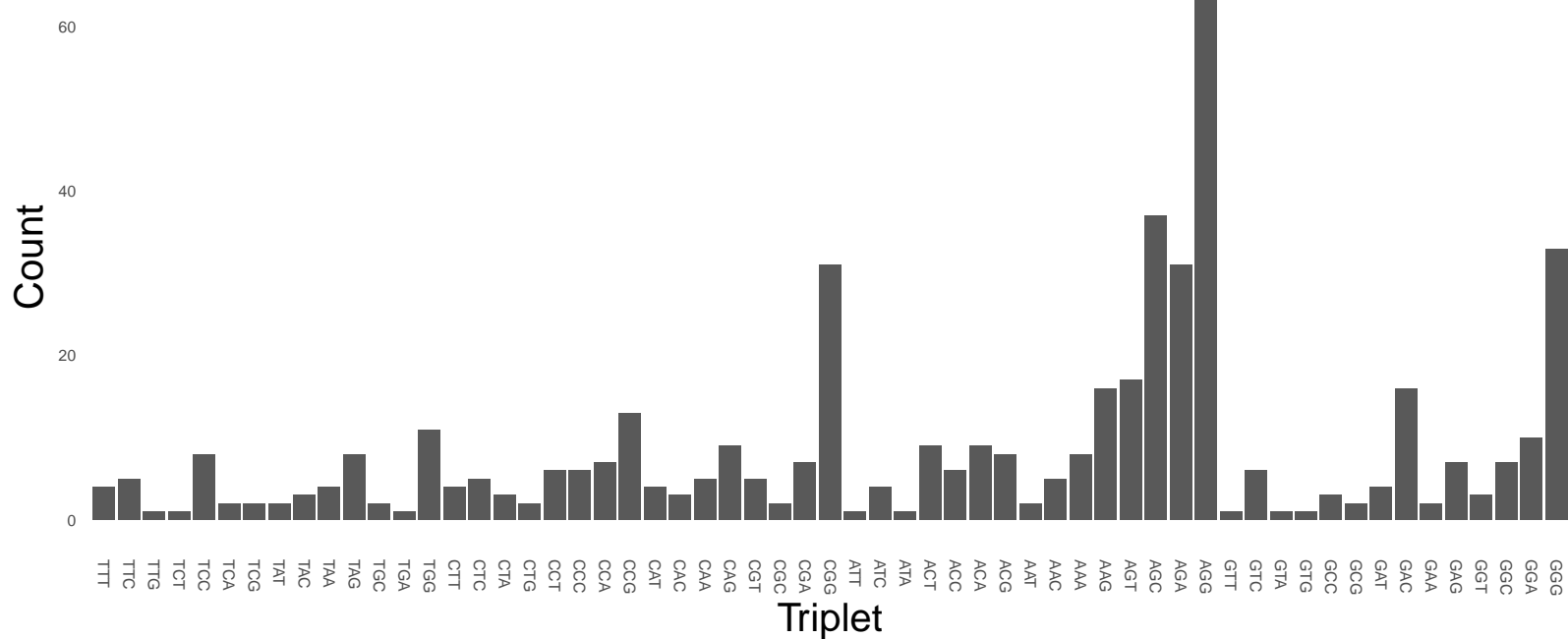
Gene TRBV7-7\*ap01\_C315T



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

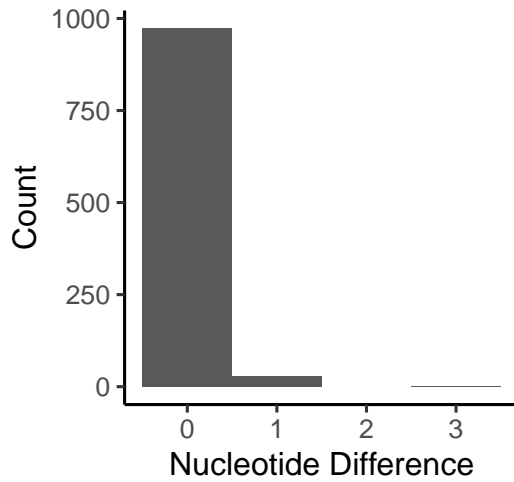


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



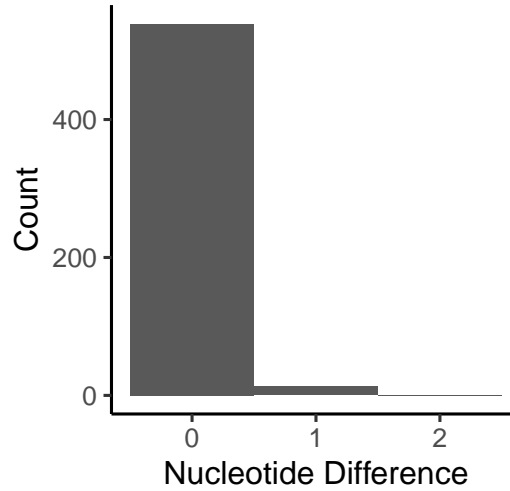
### TRBV10-1\*ap01

1002 sequences assigned  
973 (97.1%) exact matches, in which:  
952 unique CDR3  
13 unique J



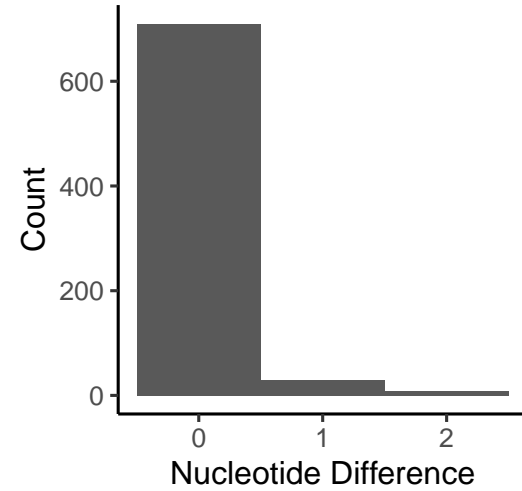
### TRBV10-2\*ap01

553 sequences assigned  
539 (97.5%) exact matches, in which:  
530 unique CDR3  
13 unique J



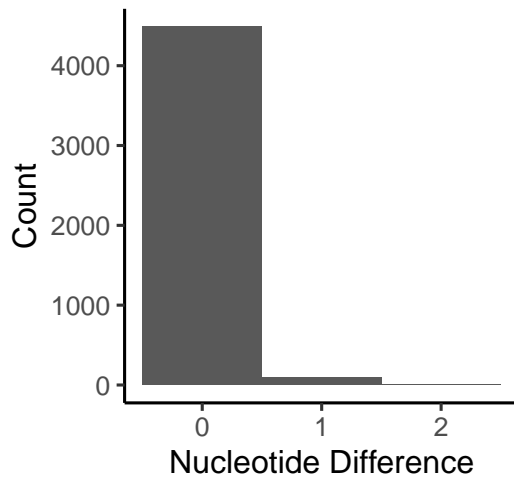
### TRBV13\*ap01

748 sequences assigned  
710 (94.9%) exact matches, in which:  
700 unique CDR3  
13 unique J



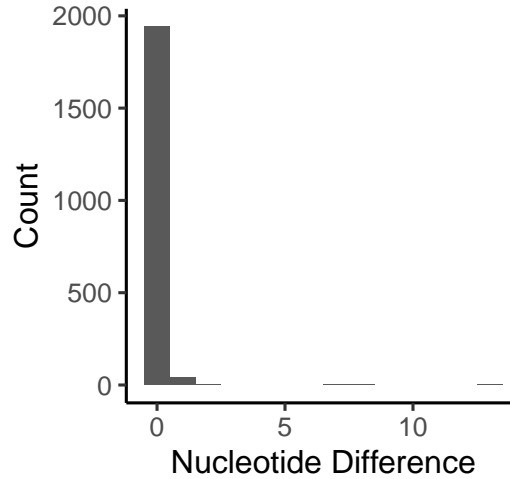
### TRBV20-1\*ap01

4581 sequences assigned  
4488 (98%) exact matches, in which:  
4347 unique CDR3  
13 unique J



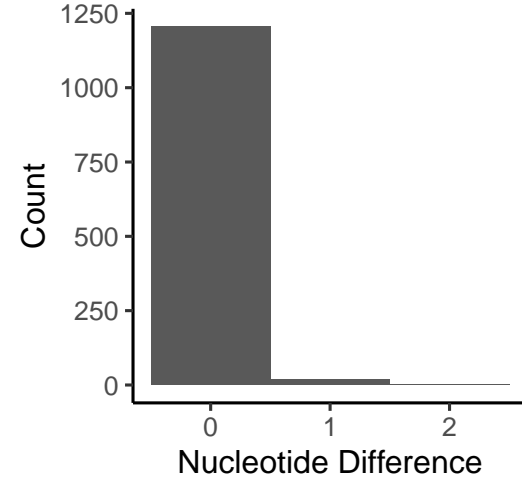
### TRBV10-3\*ap01

1984 sequences assigned  
1941 (97.8%) exact matches, in which:  
1905 unique CDR3  
13 unique J



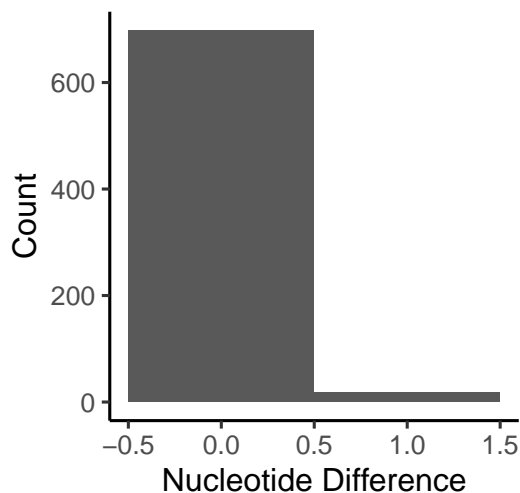
### TRBV14\*ap01

1226 sequences assigned  
1205 (98.3%) exact matches, in which:  
1186 unique CDR3  
13 unique J



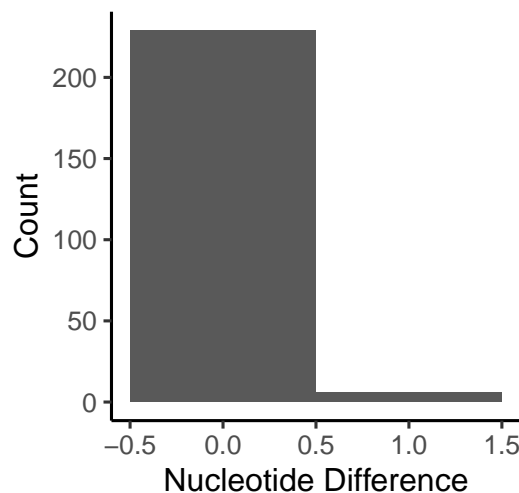
### TRBV20-1\*ap02

716 sequences assigned  
698 (97.5%) exact matches, in which:  
662 unique CDR3  
13 unique J



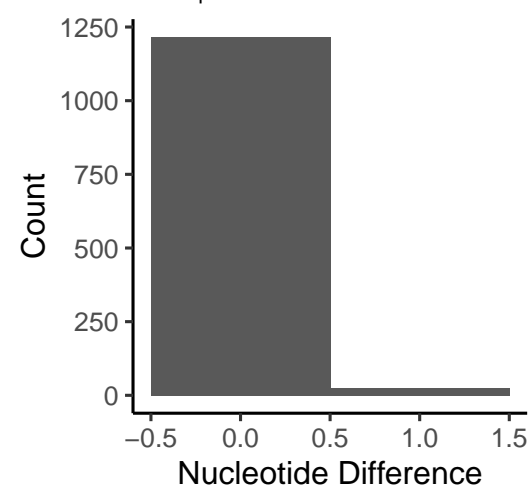
### TRBV1\*ap01

235 sequences assigned  
229 (97.4%) exact matches, in which:  
225 unique CDR3  
13 unique J



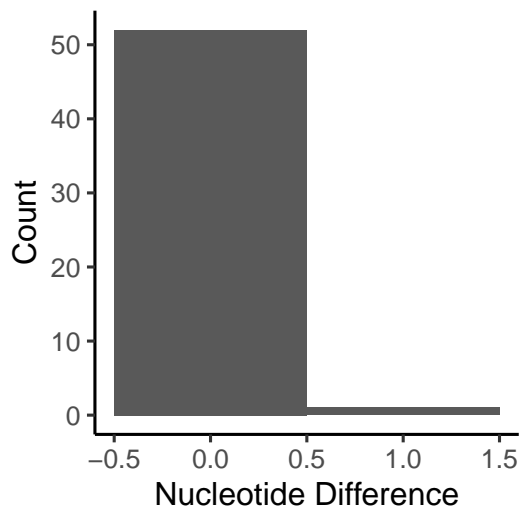
### TRBV15\*ap02

1240 sequences assigned  
1216 (98.1%) exact matches, in which:  
1194 unique CDR3  
13 unique J



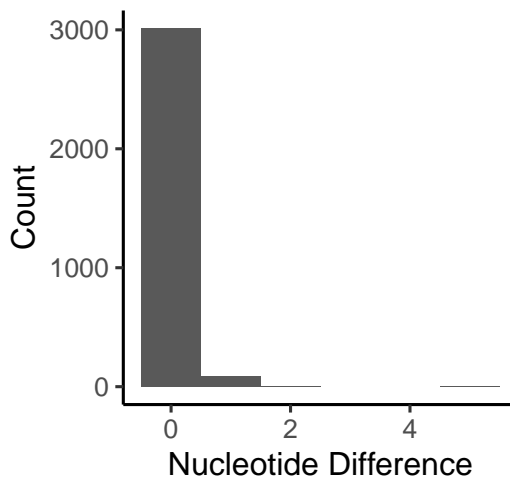
### TRBV16\*ap01

53 sequences assigned  
52 (98.1%) exact matches, in which:  
52 unique CDR3  
11 unique J



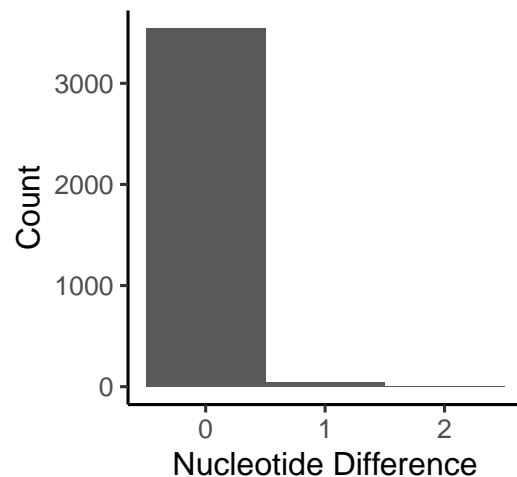
### TRBV2\*ap01

3101 sequences assigned  
3012 (97.1%) exact matches, in which:  
2975 unique CDR3  
13 unique J



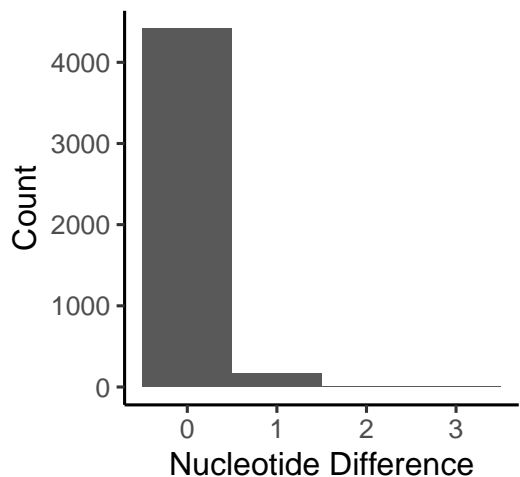
### TRBV28\*ap01

3595 sequences assigned  
3543 (98.6%) exact matches, in which:  
3480 unique CDR3  
13 unique J



### TRBV18\*ap01

4581 sequences assigned  
4414 (96.4%) exact matches, in which:  
4285 unique CDR3  
13 unique J



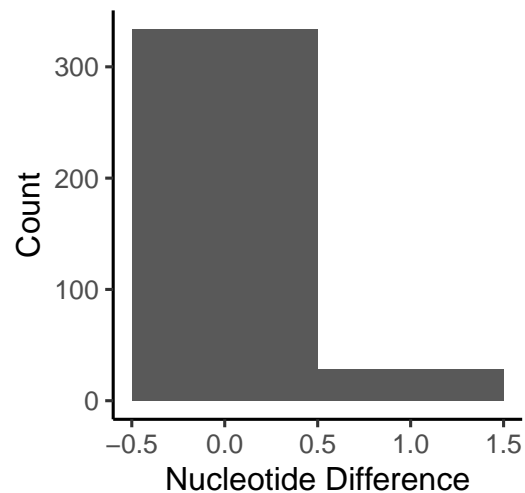
### TRBV26\*ap01

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



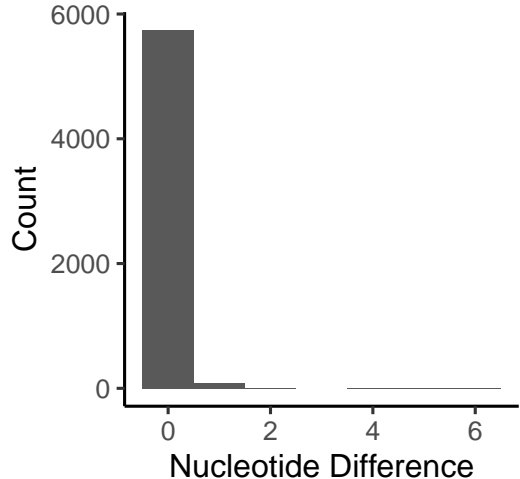
### TRBV30\*ap02

362 sequences assigned  
334 (92.3%) exact matches, in which:  
317 unique CDR3  
13 unique J



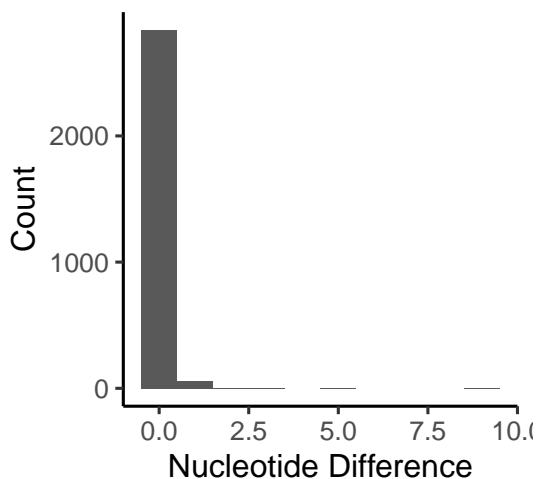
### TRBV19\*ap01

5833 sequences assigned  
5743 (98.5%) exact matches, in which:  
5638 unique CDR3  
14 unique J



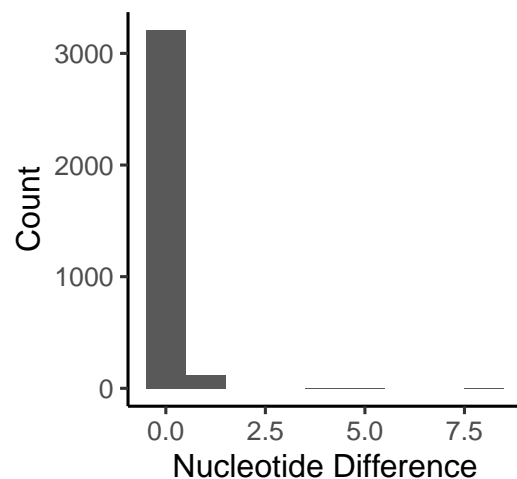
### TRBV27\*ap01

2904 sequences assigned  
2839 (97.8%) exact matches, in which:  
2790 unique CDR3  
13 unique J



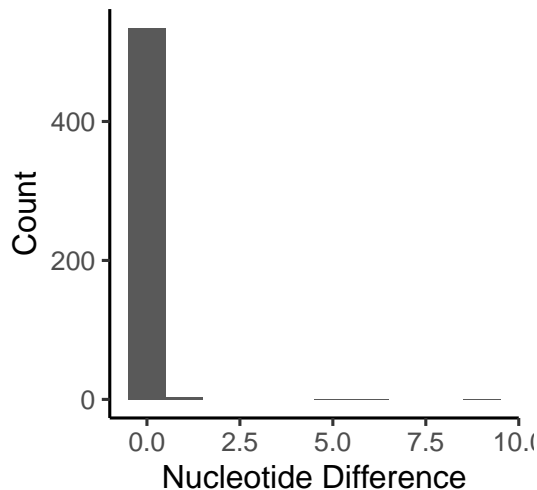
### TRBV9\*ap01

3329 sequences assigned  
3209 (96.4%) exact matches, in which:  
3158 unique CDR3  
13 unique J



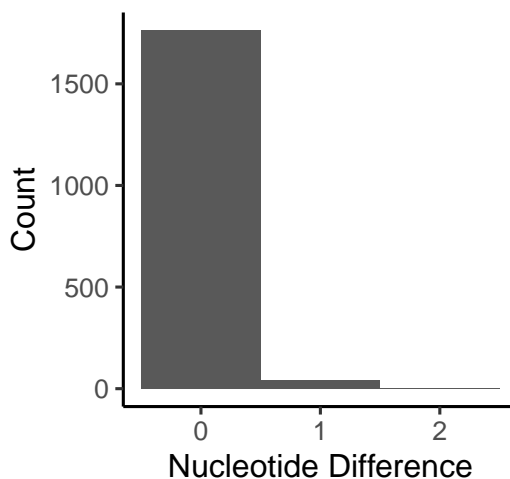
### TRBV21-1\*ap01

542 sequences assigned  
535 (98.7%) exact matches, in which:  
534 unique CDR3  
13 unique J



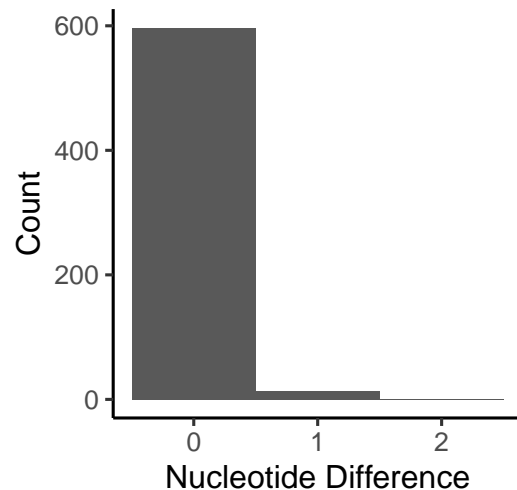
### TRBV11-3\*ap01

1808 sequences assigned  
1763 (97.5%) exact matches, in which:  
1733 unique CDR3  
13 unique J



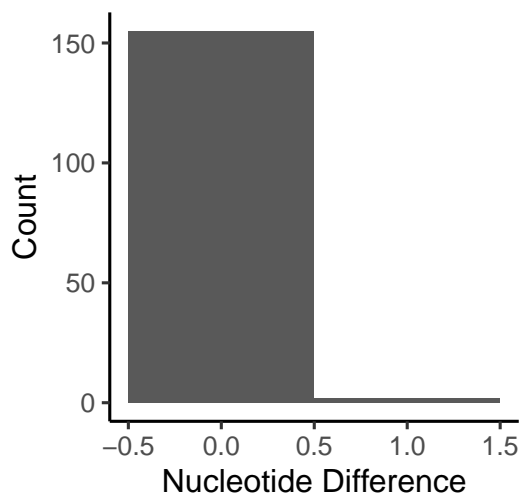
### TRBV12-5\*ap01

612 sequences assigned  
597 (97.5%) exact matches, in which:  
588 unique CDR3  
13 unique J



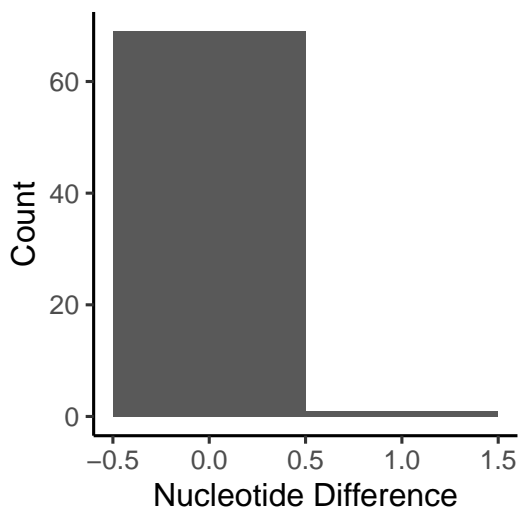
### TRBV11-1\*ap01

157 sequences assigned  
155 (98.7%) exact matches, in which:  
150 unique CDR3  
12 unique J



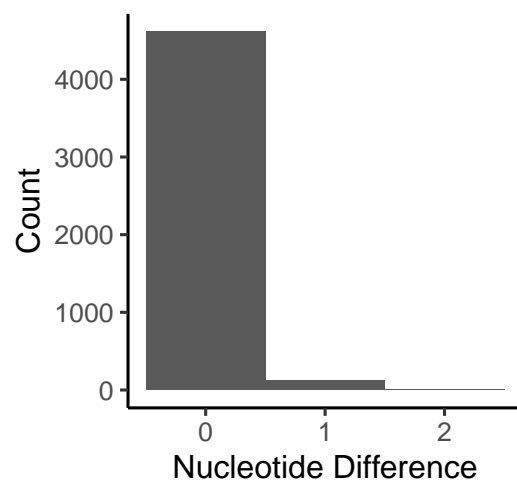
### TRBV12-1\*ap01

70 sequences assigned  
69 (98.6%) exact matches, in which:  
68 unique CDR3  
11 unique J



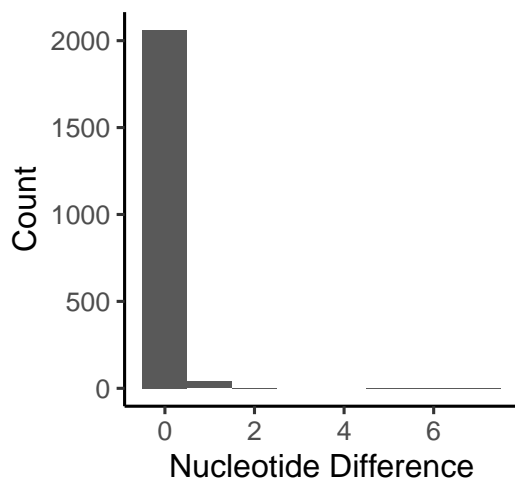
### TRBV12-34\*ap01

4733 sequences assigned  
4613 (97.5%) exact matches, in which:  
4540 unique CDR3  
13 unique J



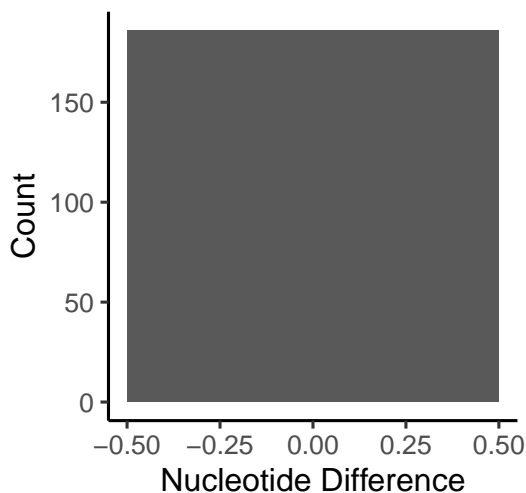
### TRBV11-2\*ap01

2104 sequences assigned  
2061 (98%) exact matches, in which:  
2030 unique CDR3  
13 unique J



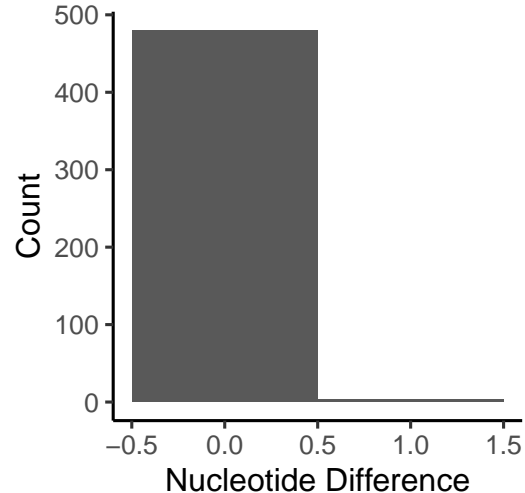
### TRBV12-2\*ap01

186 sequences assigned  
186 (100%) exact matches, in which:  
184 unique CDR3  
13 unique J



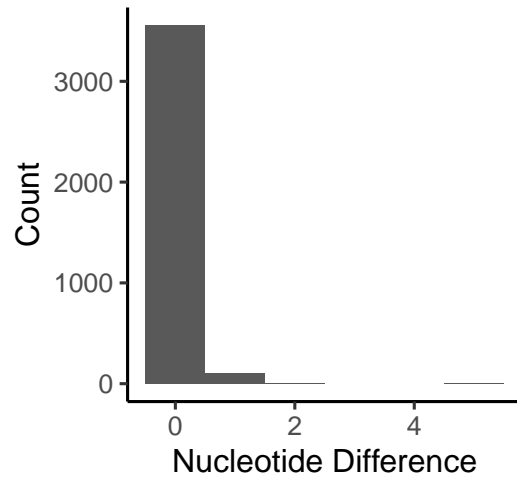
### TRBV23-1\*ap01

483 sequences assigned  
480 (99.4%) exact matches, in which:  
476 unique CDR3  
13 unique J



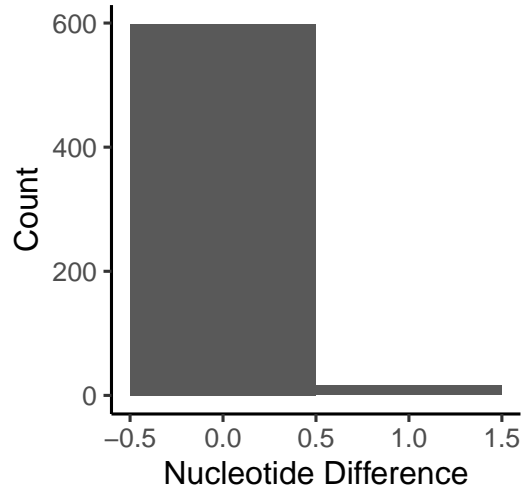
### TRBV3-12\*ap01

3659 sequences assigned  
3555 (97.2%) exact matches, in which:  
3513 unique CDR3  
13 unique J



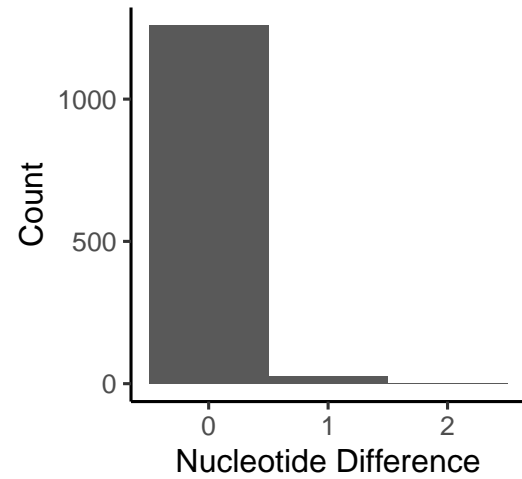
### TRBV4-2\*ap01

615 sequences assigned  
599 (97.4%) exact matches, in which:  
584 unique CDR3  
13 unique J



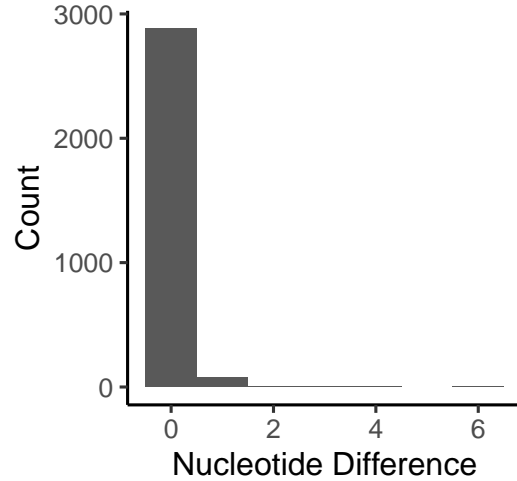
### TRBV25-1\*ap01

1286 sequences assigned  
1259 (97.9%) exact matches, in which:  
1218 unique CDR3  
13 unique J



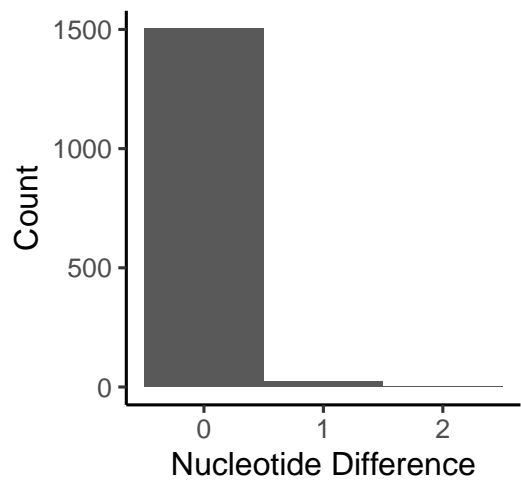
### TRBV24-1\*ap01

2961 sequences assigned  
2881 (97.3%) exact matches, in which:  
2822 unique CDR3  
13 unique J



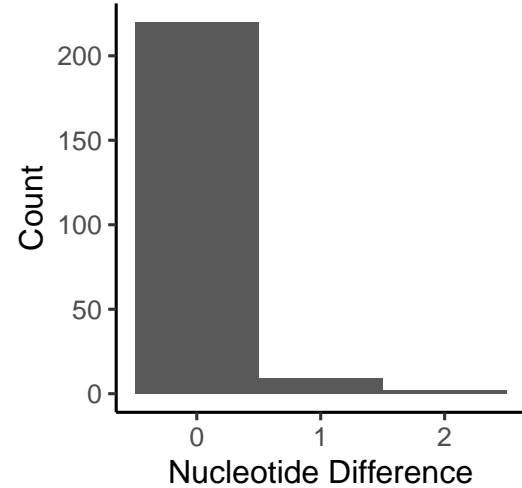
### TRBV4-3\*ap01

1525 sequences assigned  
1503 (98.6%) exact matches, in which:  
1468 unique CDR3  
13 unique J



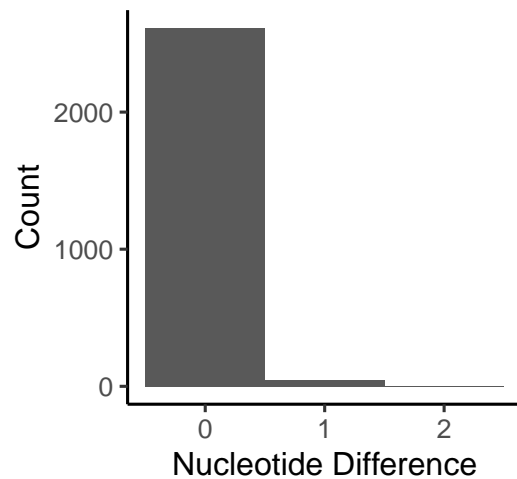
### TRBV5-3\*ap01

231 sequences assigned  
220 (95.2%) exact matches, in which:  
213 unique CDR3  
13 unique J



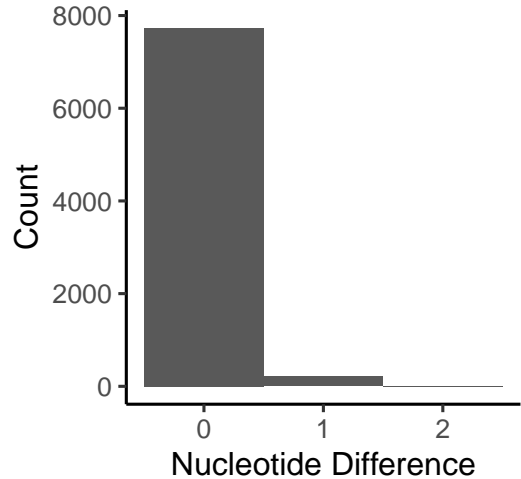
### TRBV4-1\*ap01

2664 sequences assigned  
2613 (98.1%) exact matches, in which:  
2544 unique CDR3  
13 unique J



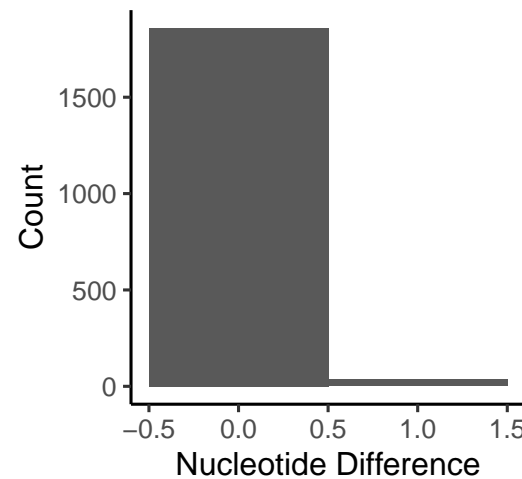
### TRBV5-1\*ap01

7945 sequences assigned  
7730 (97.3%) exact matches, in which:  
7495 unique CDR3  
13 unique J



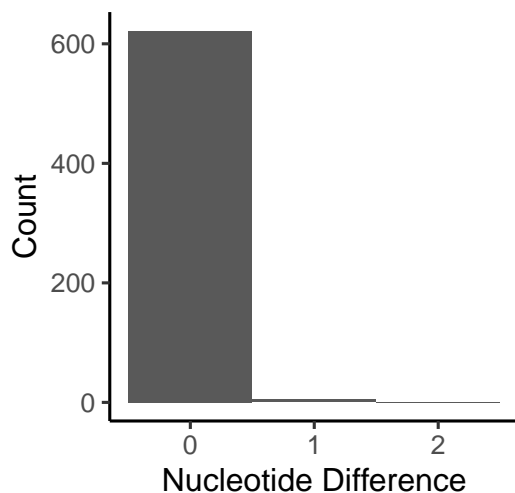
### TRBV5-4\*ap01

1895 sequences assigned  
1859 (98.1%) exact matches, in which:  
1825 unique CDR3  
13 unique J



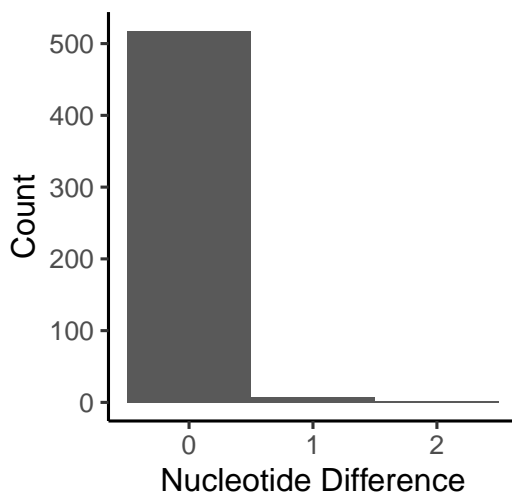
### TRBV5-5\*ap01

628 sequences assigned  
622 (99%) exact matches, in which:  
615 unique CDR3  
13 unique J



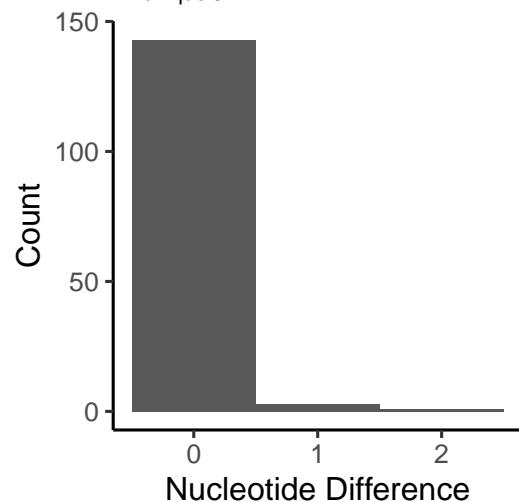
### TRBV5-8\*ap01

528 sequences assigned  
518 (98.1%) exact matches, in which:  
512 unique CDR3  
13 unique J



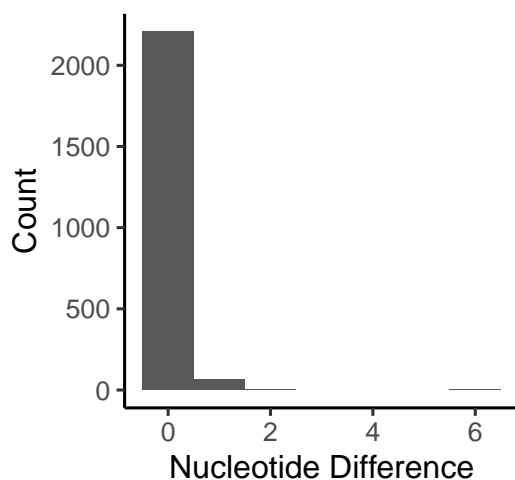
### TRBV6-7\*ap01

147 sequences assigned  
143 (97.3%) exact matches, in which:  
138 unique CDR3  
12 unique J



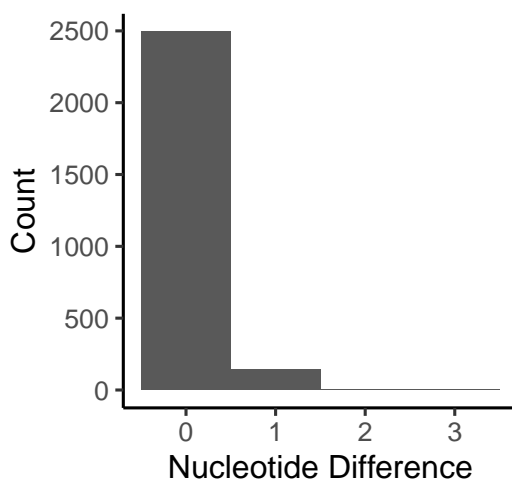
### TRBV5-6\*ap01

2276 sequences assigned  
2207 (97%) exact matches, in which:  
2094 unique CDR3  
13 unique J



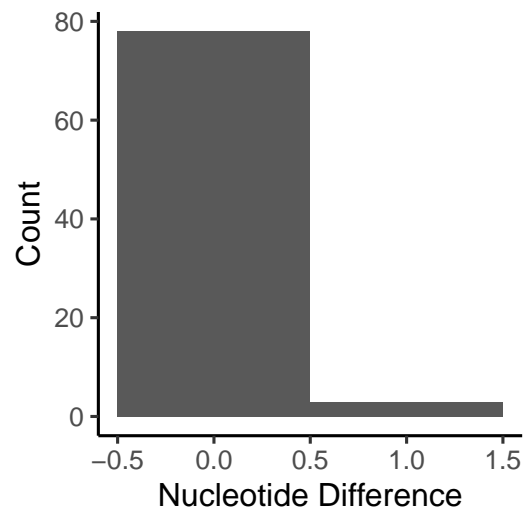
### TRBV6-1\*ap01

2644 sequences assigned  
2494 (94.3%) exact matches, in which:  
2435 unique CDR3  
13 unique J



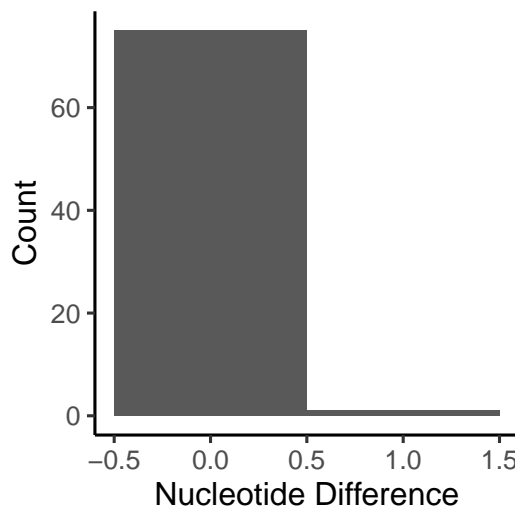
### TRBV6-8\*ap01

81 sequences assigned  
78 (96.3%) exact matches, in which:  
78 unique CDR3  
13 unique J



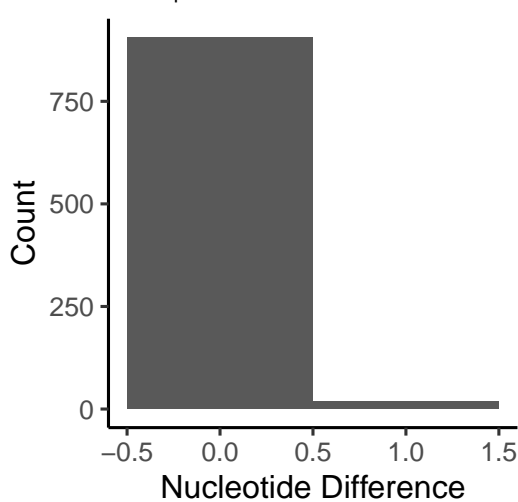
### TRBV5-7\*ap01

76 sequences assigned  
75 (98.7%) exact matches, in which:  
66 unique CDR3  
11 unique J



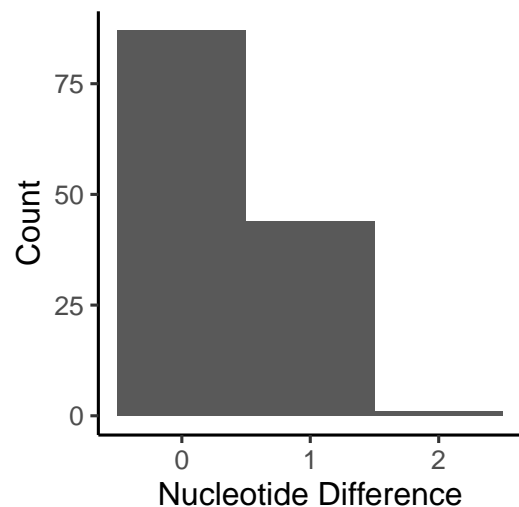
### TRBV6-4\*ap01

925 sequences assigned  
906 (97.9%) exact matches, in which:  
886 unique CDR3  
13 unique J



### TRBV6-9\*ap01

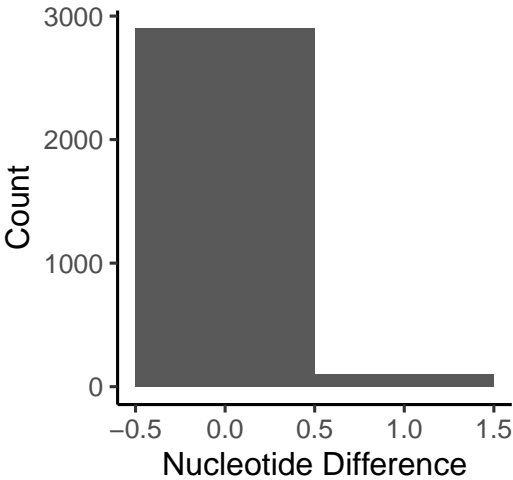
132 sequences assigned  
87 (65.9%) exact matches, in which:  
83 unique CDR3  
12 unique J





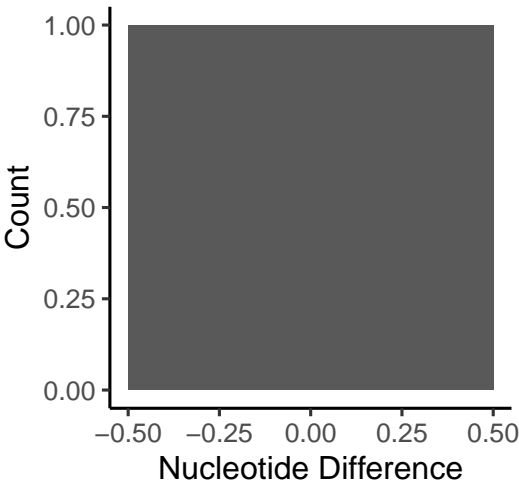
TRBV6–23\*ap01

3003 sequences assigned  
2900 (96.6%) exact matches, in which:  
2821 unique CDR3  
13 unique J



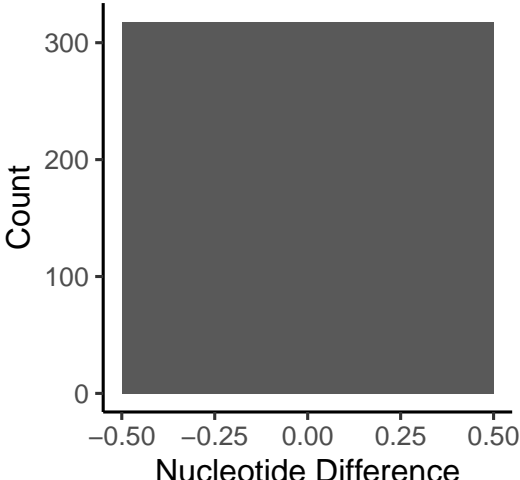
TRBV7–1\*ap01

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



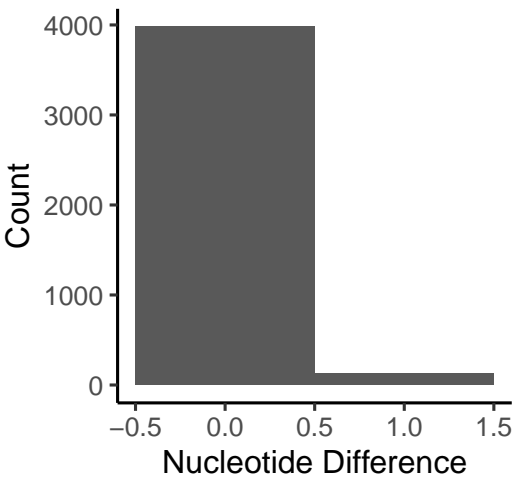
TRBV7–3\*ap02

318 sequences assigned  
318 (100%) exact matches, in which:  
312 unique CDR3  
13 unique J



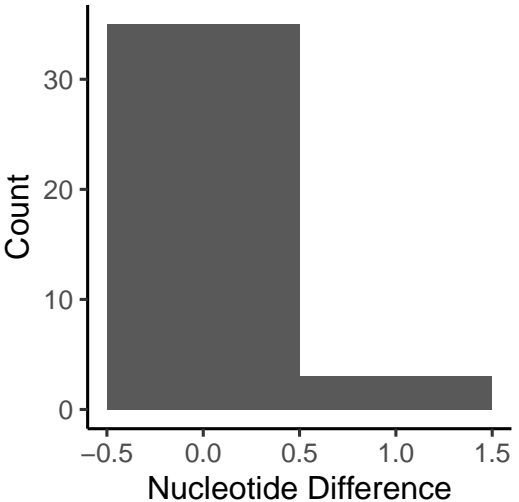
TRBV6–56\*ap01

4109 sequences assigned  
3980 (96.9%) exact matches, in which:  
3874 unique CDR3  
13 unique J



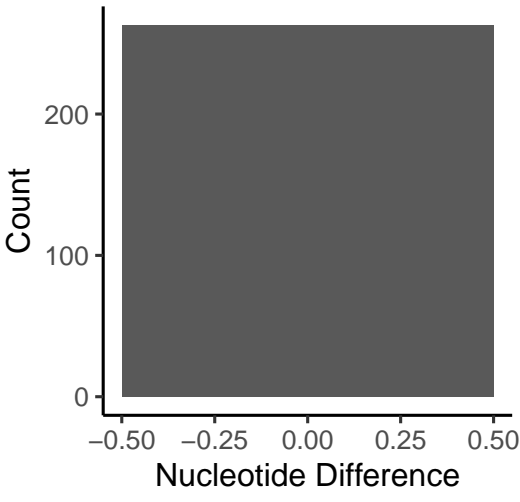
TRBV7–1\*ap01\_G291C\_T

38 sequences assigned  
35 (92.1%) exact matches, in which:  
35 unique CDR3  
12 unique J



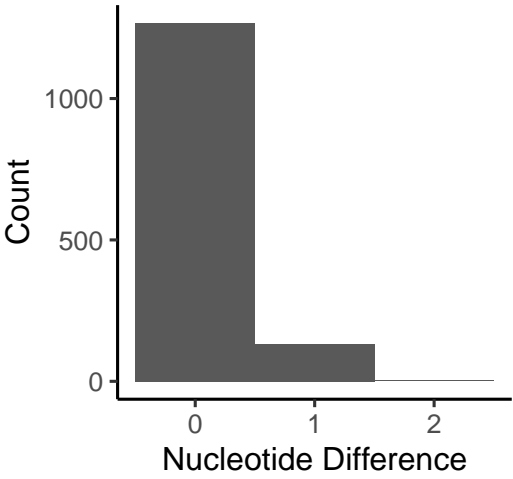
TRBV7–3\*ap03

263 sequences assigned  
263 (100%) exact matches, in which:  
259 unique CDR3  
13 unique J



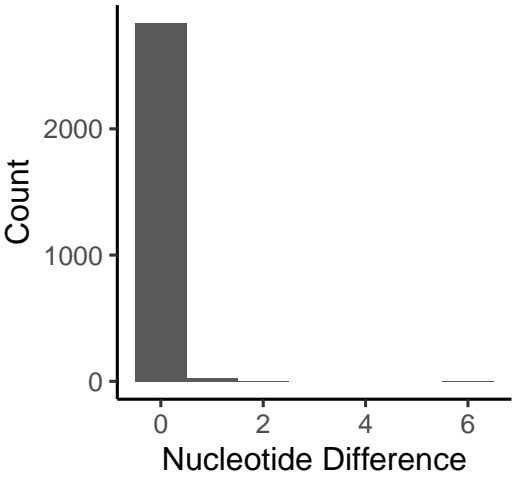
TRBV6–56\*ap02

1401 sequences assigned  
1267 (90.4%) exact matches, in which:  
1234 unique CDR3  
13 unique J



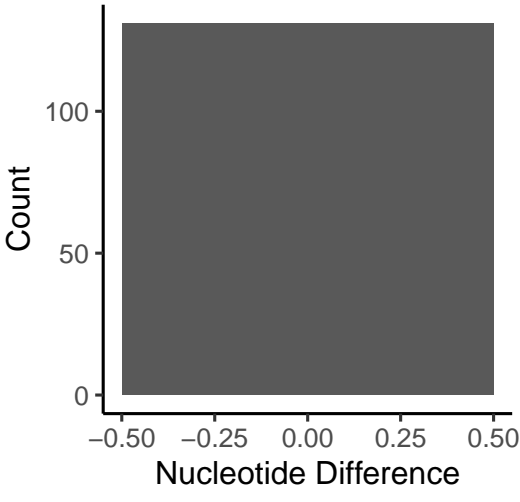
TRBV7–2\*ap01

2869 sequences assigned  
2838 (98.9%) exact matches, in which:  
2793 unique CDR3  
13 unique J



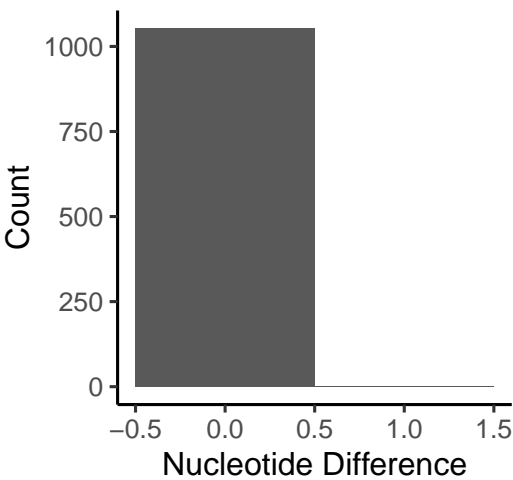
TRBV7–4\*ap01

131 sequences assigned  
131 (100%) exact matches, in which:  
129 unique CDR3  
13 unique J



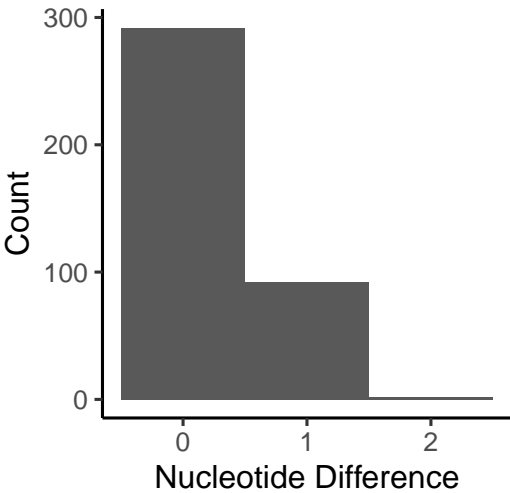
TRBV7-6\*ap01

1055 sequences assigned  
1053 (99.8%) exact matches, in which:  
1028 unique CDR3  
13 unique J



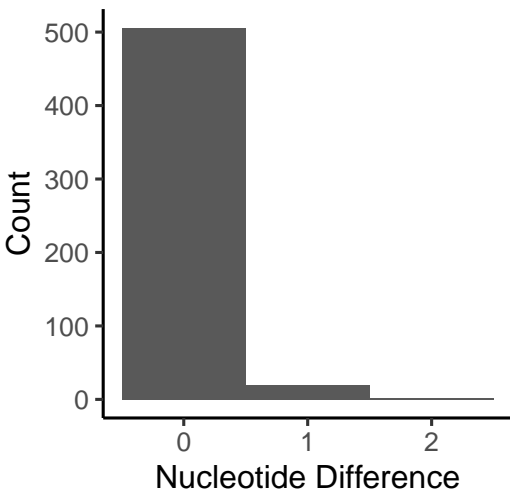
TRBV7-8\*ap03

386 sequences assigned  
292 (75.6%) exact matches, in which:  
290 unique CDR3  
13 unique J



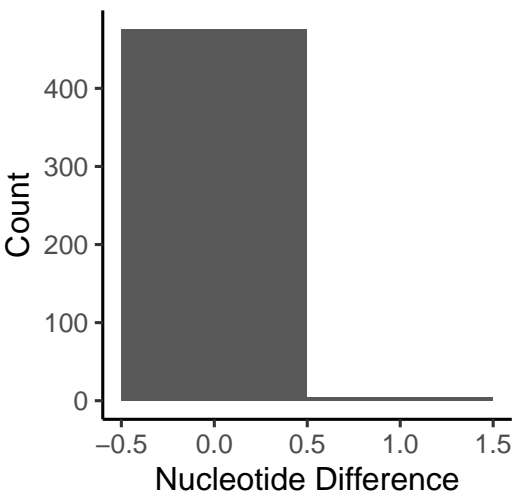
TRBV29-1\*ap02

528 sequences assigned  
506 (95.8%) exact matches, in which:  
464 unique CDR3  
13 unique J



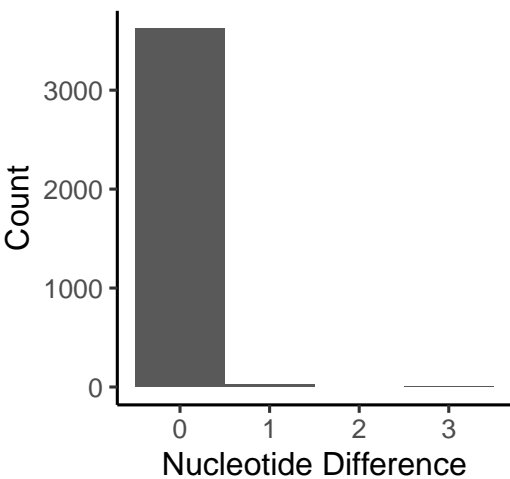
TRBV7-7\*ap01\_C315T

480 sequences assigned  
476 (99.2%) exact matches, in which:  
458 unique CDR3  
13 unique J



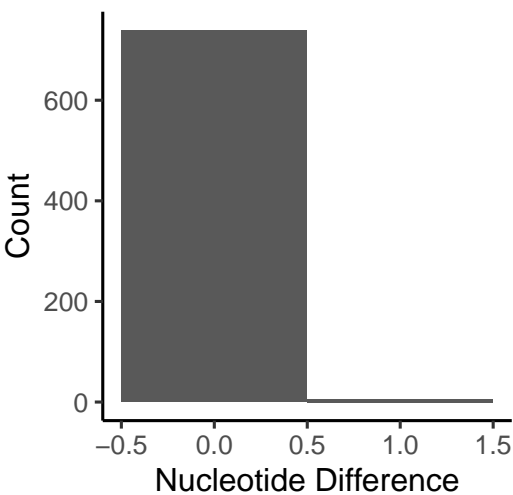
TRBV7-9\*ap01

3649 sequences assigned  
3621 (99.2%) exact matches, in which:  
3554 unique CDR3  
13 unique J



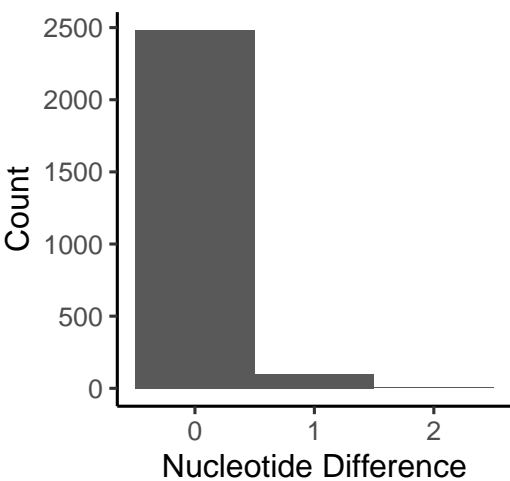
TRBV7-8\*ap01

745 sequences assigned  
739 (99.2%) exact matches, in which:  
728 unique CDR3  
13 unique J

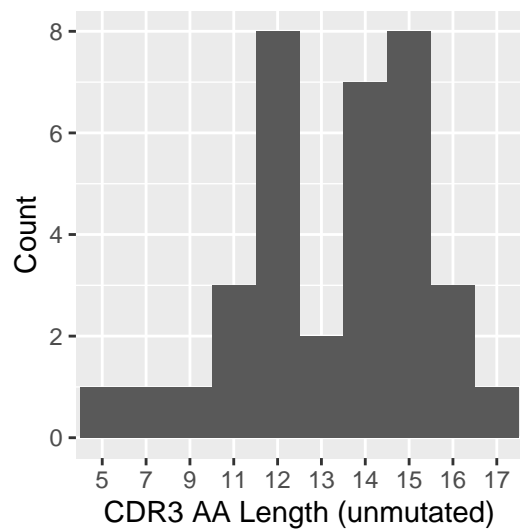


TRBV29-1\*ap01

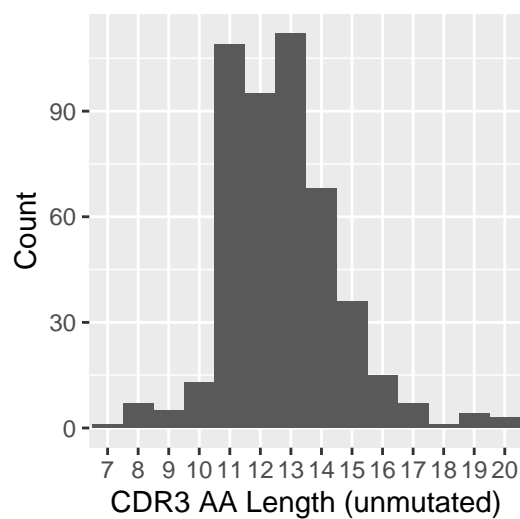
2589 sequences assigned  
2483 (95.9%) exact matches, in which:  
2320 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]