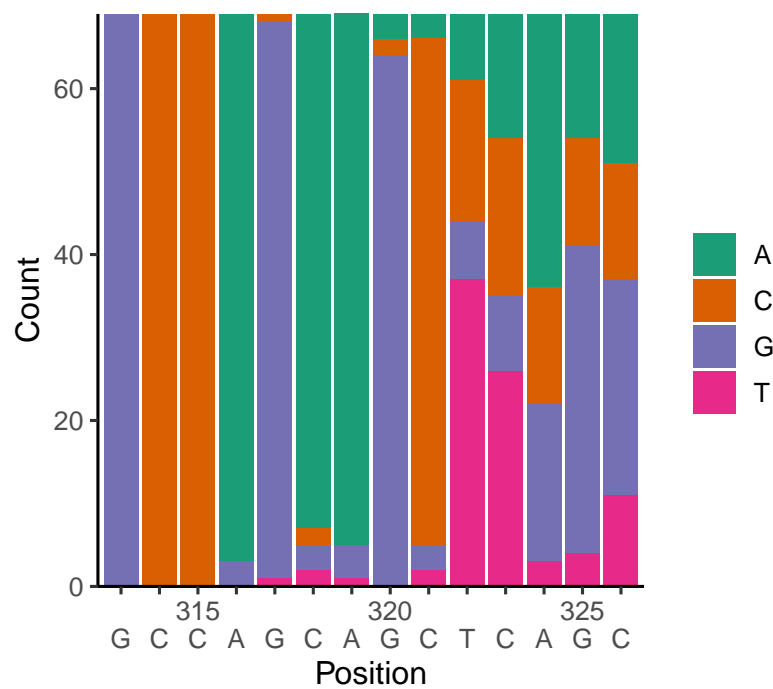
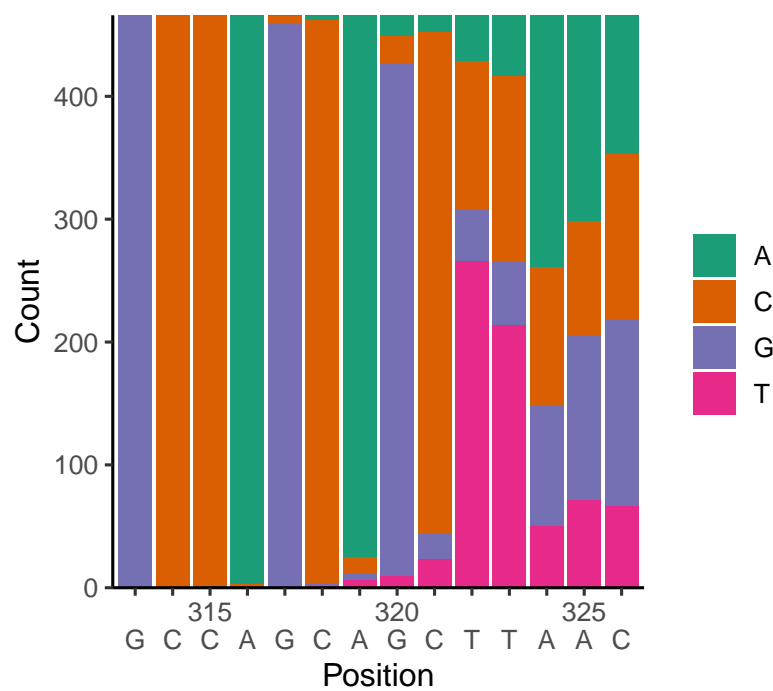


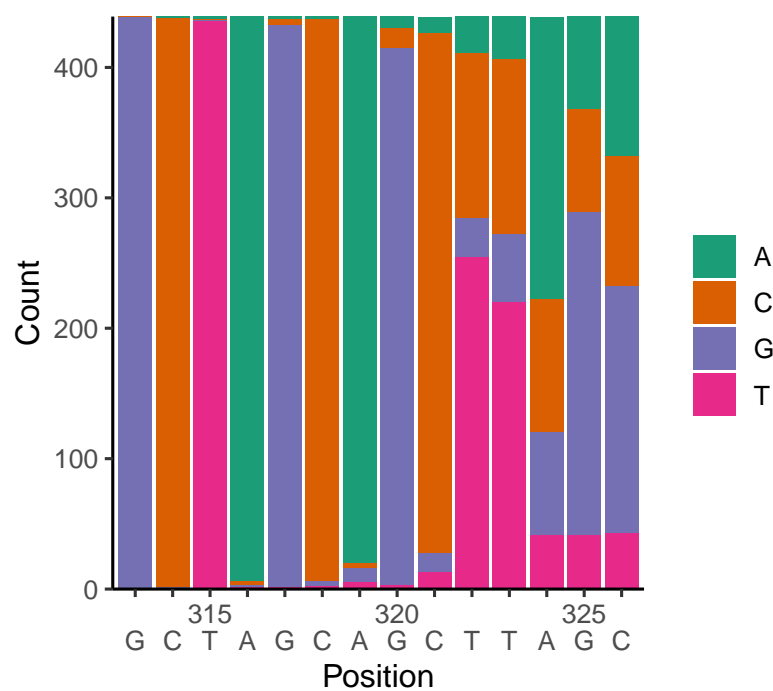
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-3\*ap01\_G292T



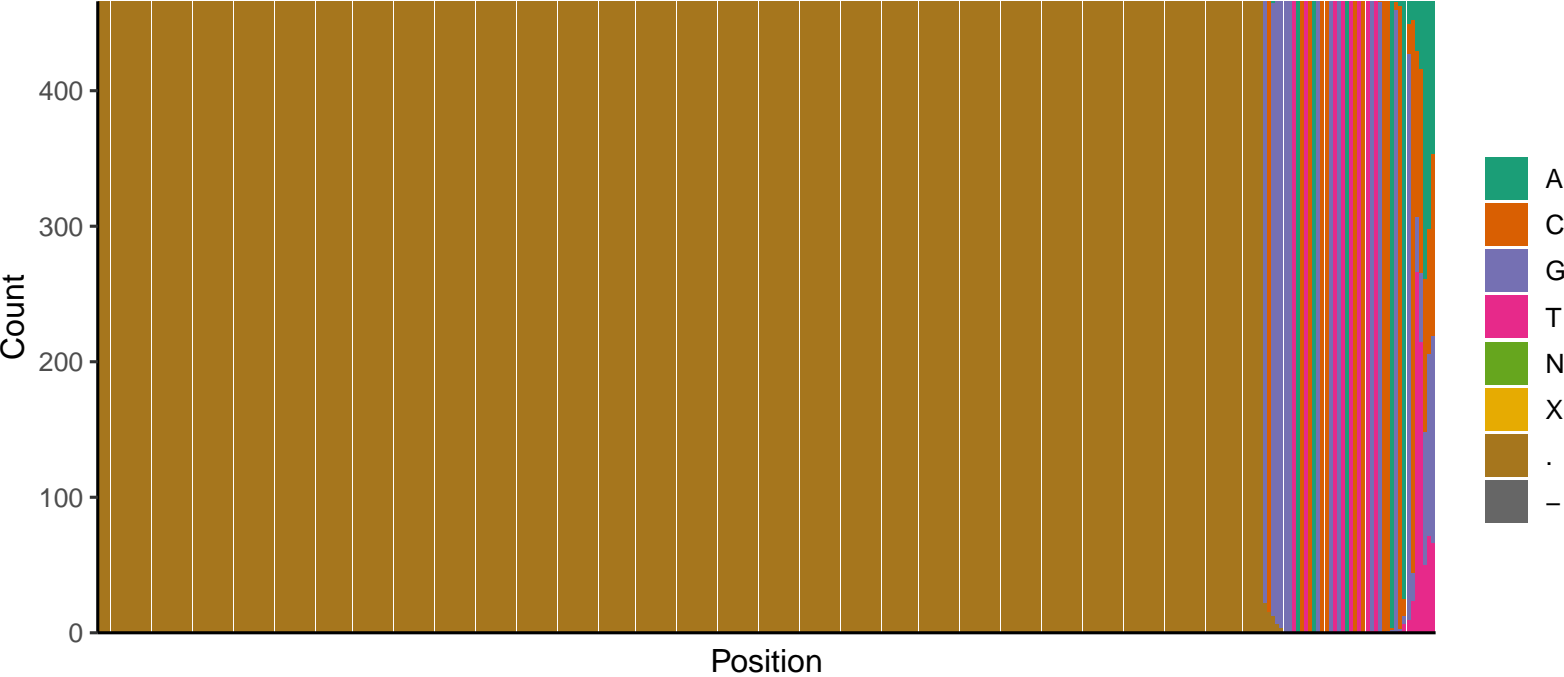
Gene TRBV7-7\*ap01\_C315T



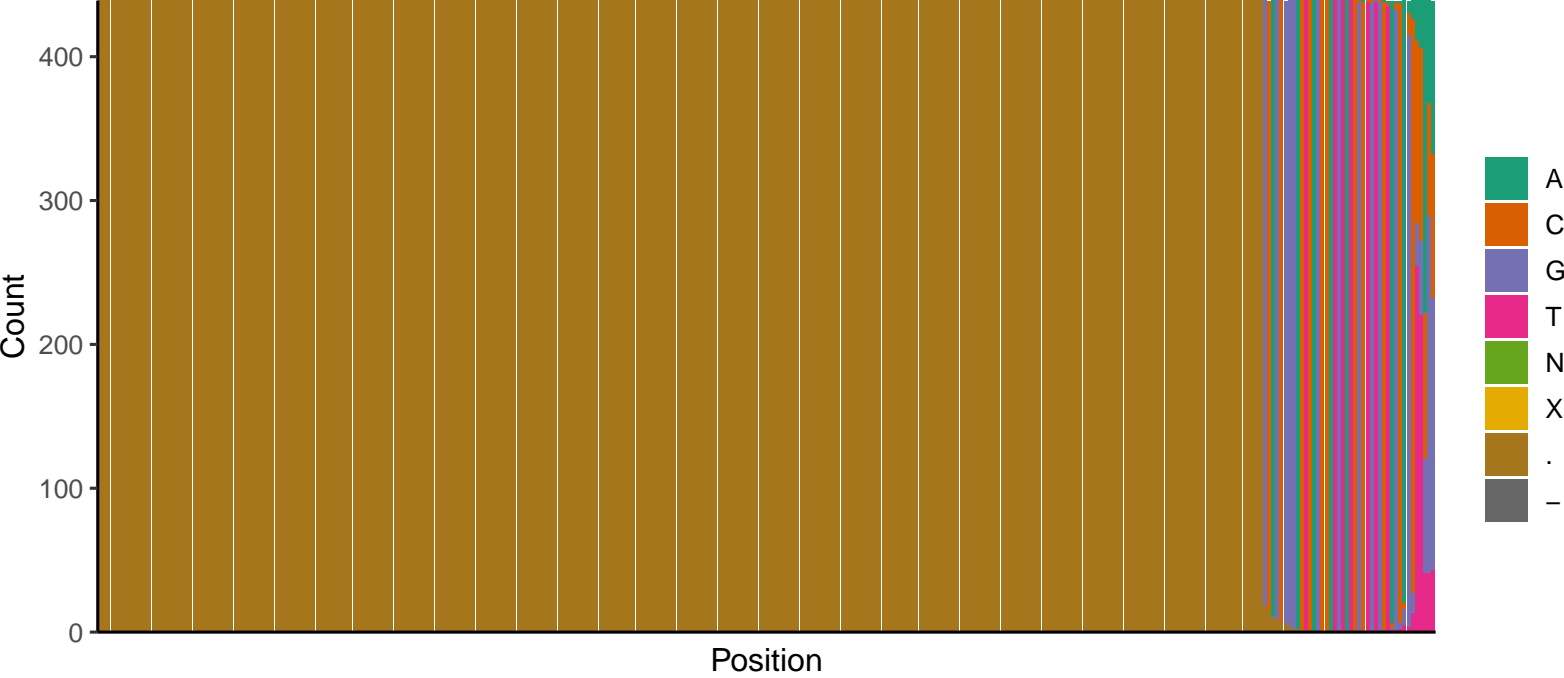
Gene TRBV7-1\*ap01\_G291C\_T296C



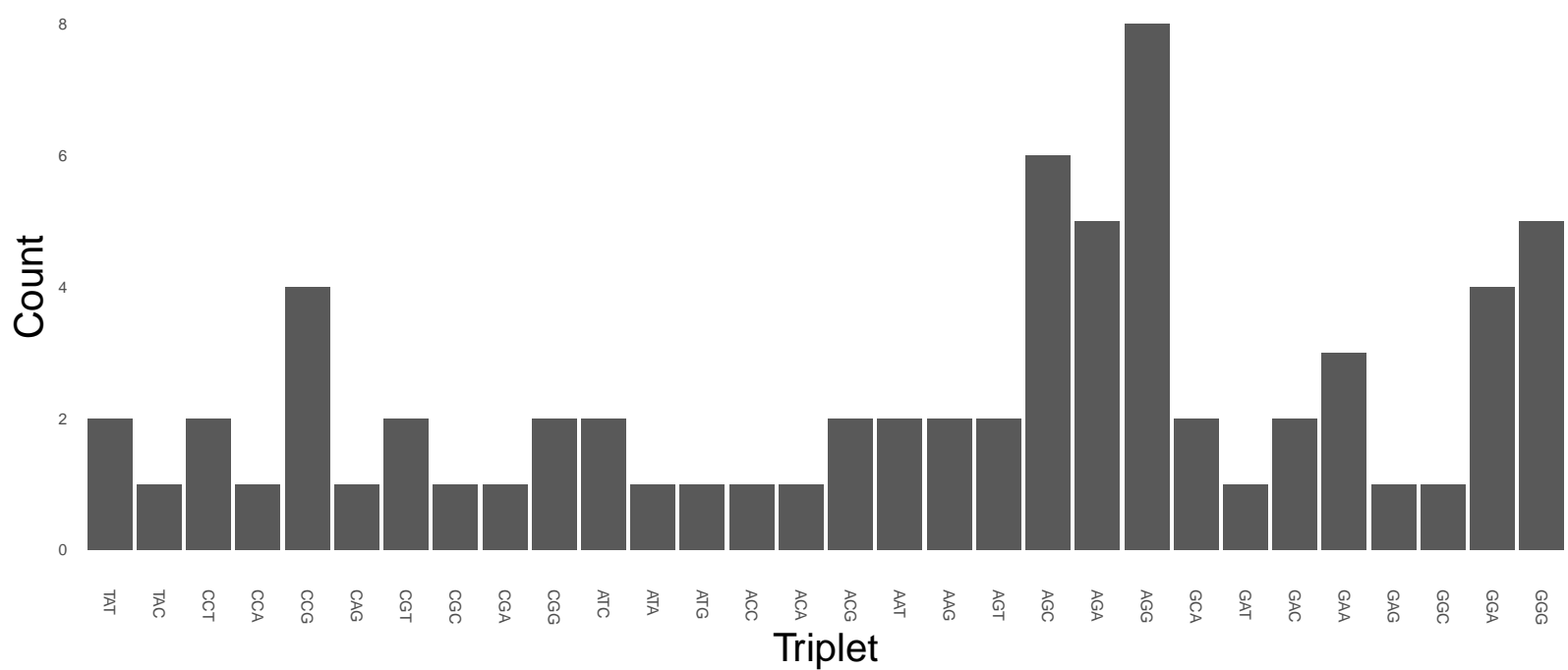
Gene TRBV7-3\*ap01\_G292T



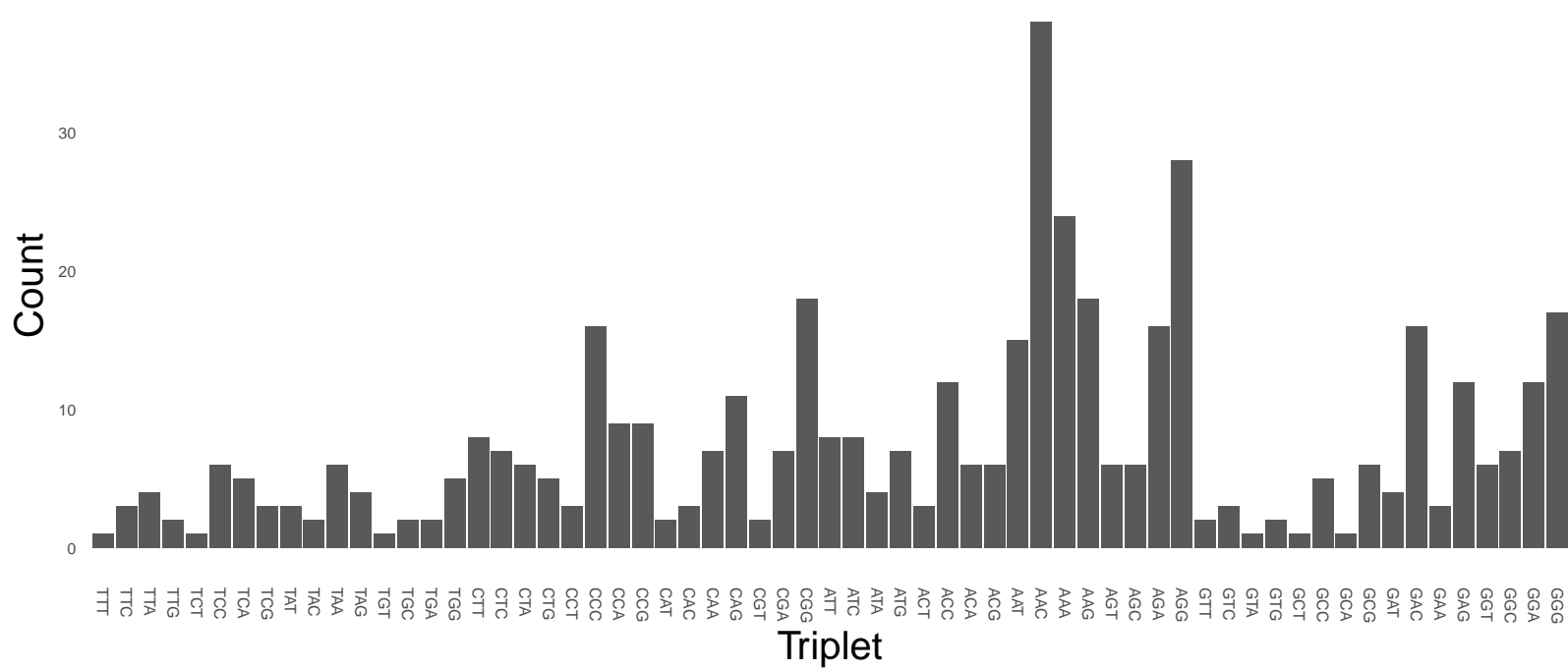
Gene TRBV7-7\*ap01\_C315T



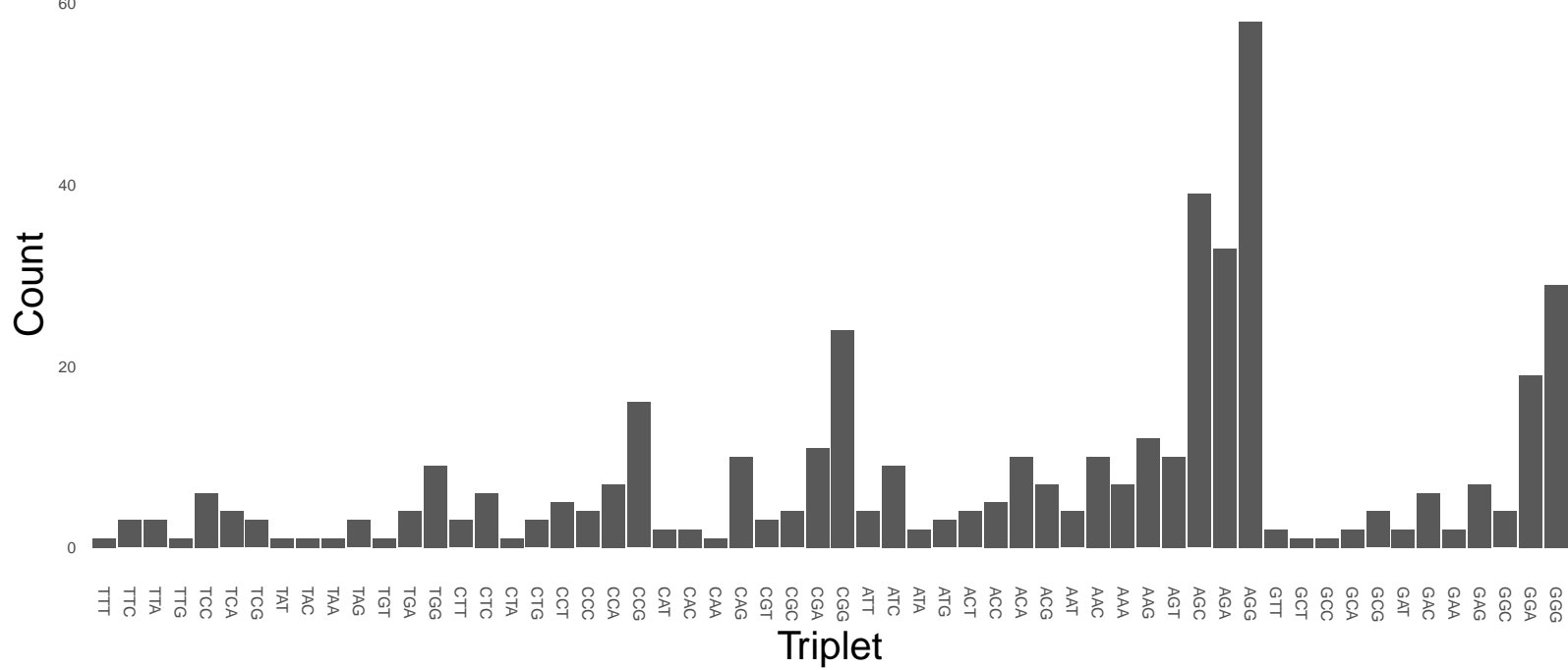
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



TRBV7-3\*ap01\_G292T- Final 3 nucleotides as a triplet

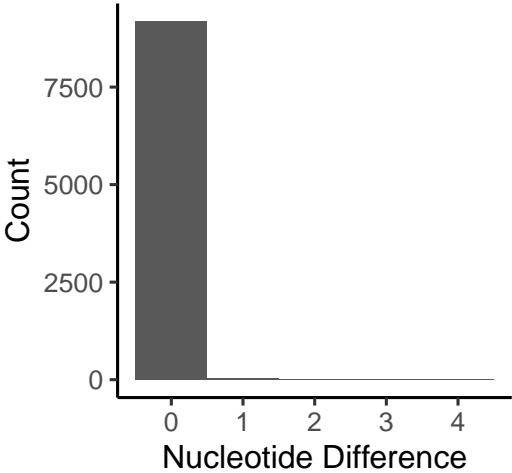


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



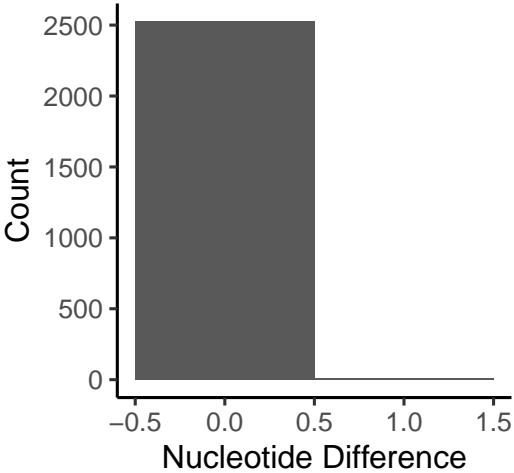
TRBV20-1\*ap01

9243 sequences assigned  
9184 (99.4%) exact matches, in which:  
9144 unique CDR3  
13 unique J



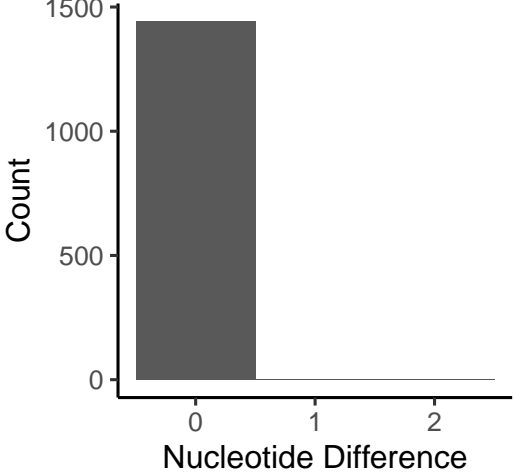
TRBV10-3\*ap01

2535 sequences assigned  
2526 (99.6%) exact matches, in which:  
2519 unique CDR3  
13 unique J



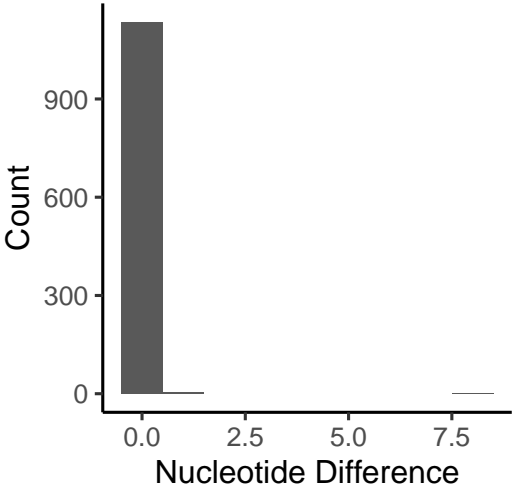
TRBV14\*ap01

1444 sequences assigned  
1442 (99.9%) exact matches, in which:  
1439 unique CDR3  
13 unique J



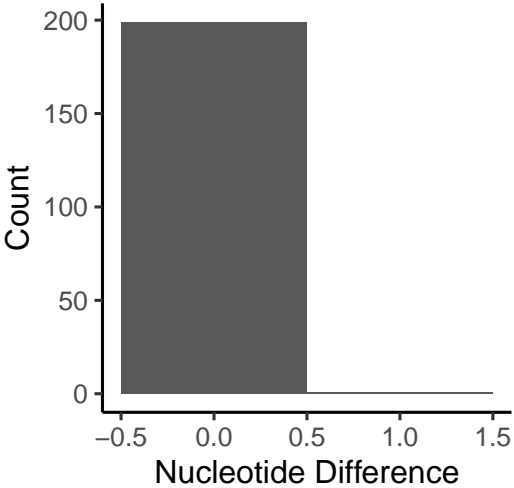
TRBV10-1\*ap01

1140 sequences assigned  
1135 (99.6%) exact matches, in which:  
1132 unique CDR3  
13 unique J



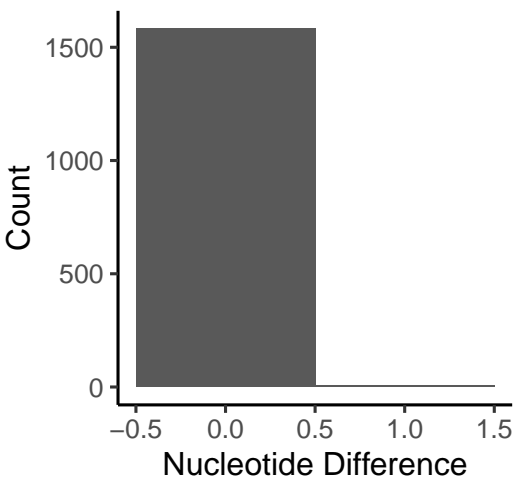
TRBV1\*ap01

200 sequences assigned  
199 (99.5%) exact matches, in which:  
196 unique CDR3  
13 unique J



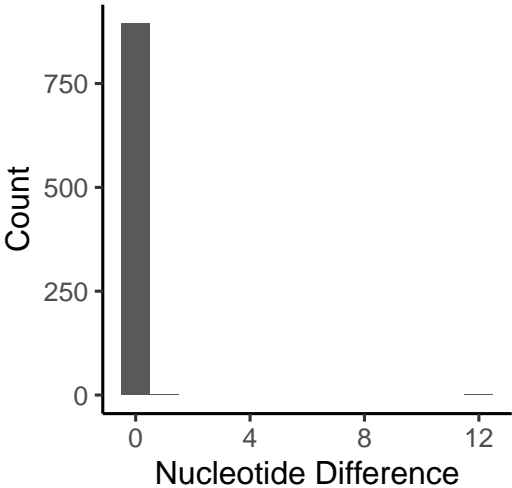
TRBV15\*ap02

1587 sequences assigned  
1582 (99.7%) exact matches, in which:  
1565 unique CDR3  
13 unique J



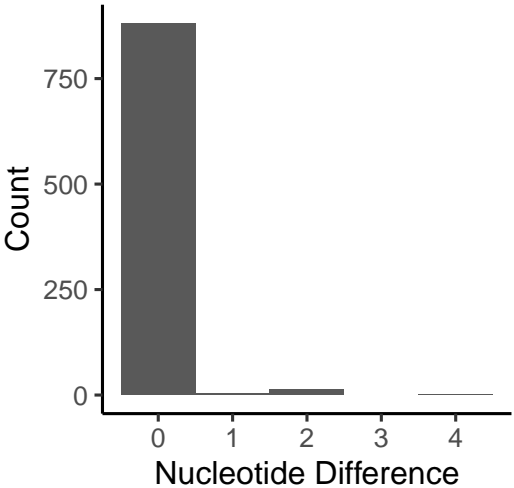
TRBV10-2\*ap01

898 sequences assigned  
895 (99.7%) exact matches, in which:  
892 unique CDR3  
13 unique J



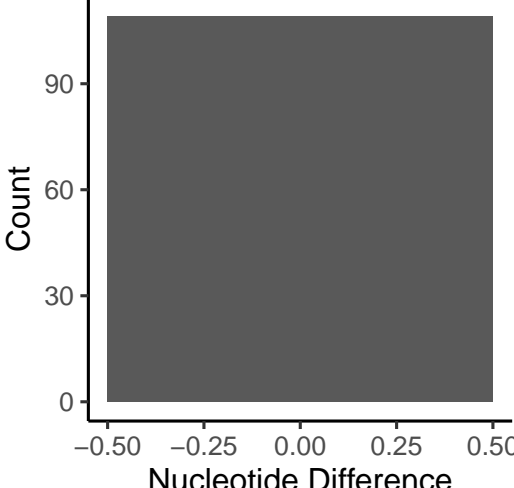
TRBV13\*ap01

899 sequences assigned  
881 (98%) exact matches, in which:  
879 unique CDR3  
13 unique J



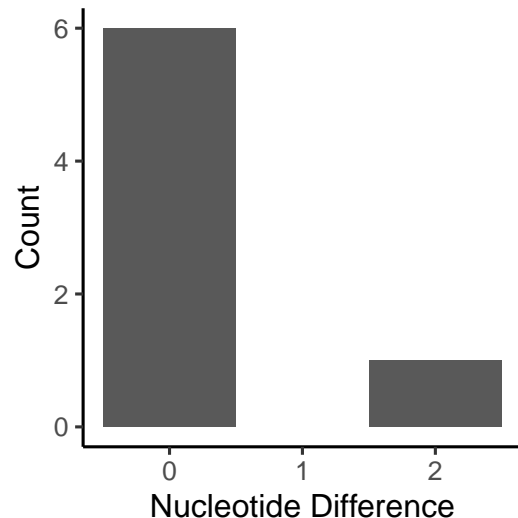
TRBV16\*ap01

109 sequences assigned  
109 (100%) exact matches, in which:  
108 unique CDR3  
12 unique J



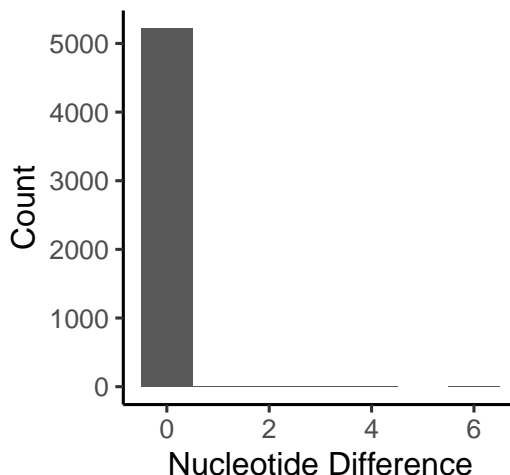
### TRBV17\*ap01

7 sequences assigned  
6 (85.7%) exact matches, in which:  
6 unique CDR3  
3 unique J



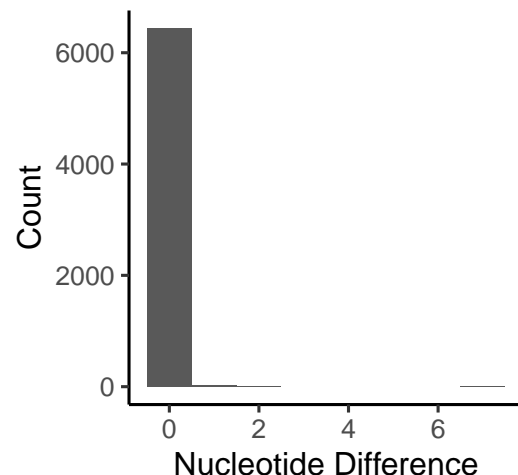
### TRBV2\*ap01

5239 sequences assigned  
5219 (99.6%) exact matches, in which:  
5209 unique CDR3  
13 unique J



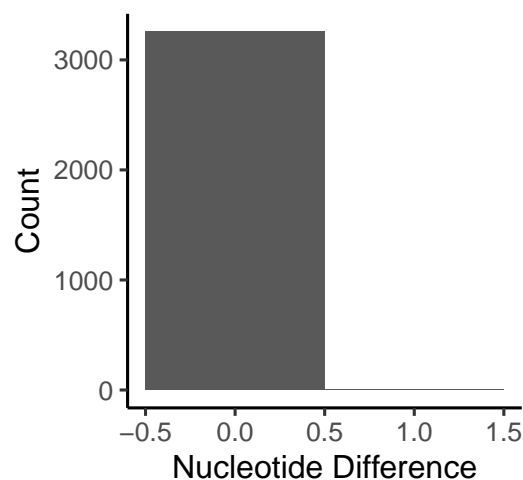
### TRBV28\*ap01

6465 sequences assigned  
6437 (99.6%) exact matches, in which:  
6415 unique CDR3  
13 unique J



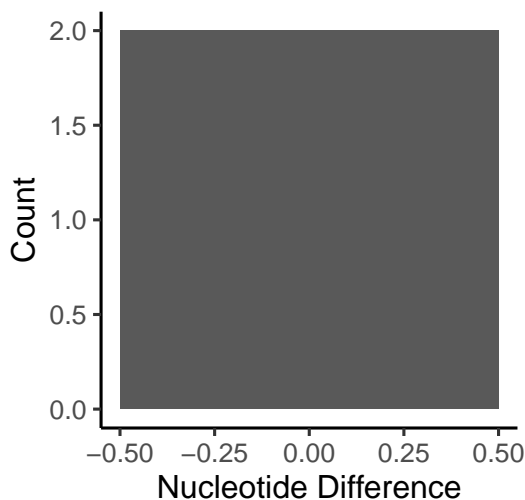
### TRBV18\*ap01

3259 sequences assigned  
3256 (99.9%) exact matches, in which:  
3244 unique CDR3  
13 unique J



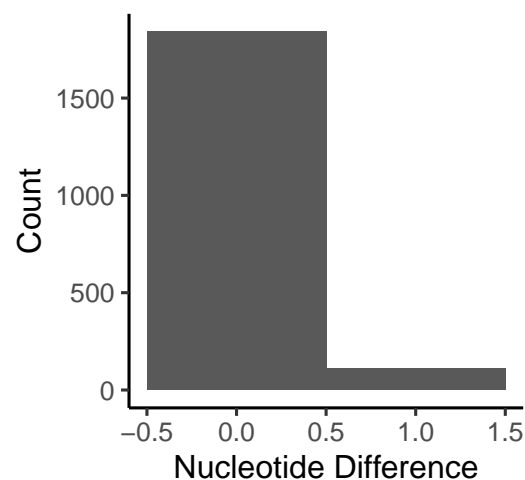
### TRBV26\*ap01

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



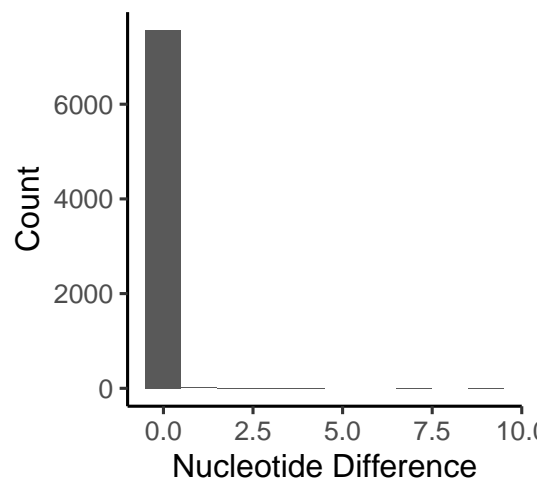
### TRBV30\*ap01

1949 sequences assigned  
1841 (94.5%) exact matches, in which:  
1834 unique CDR3  
13 unique J



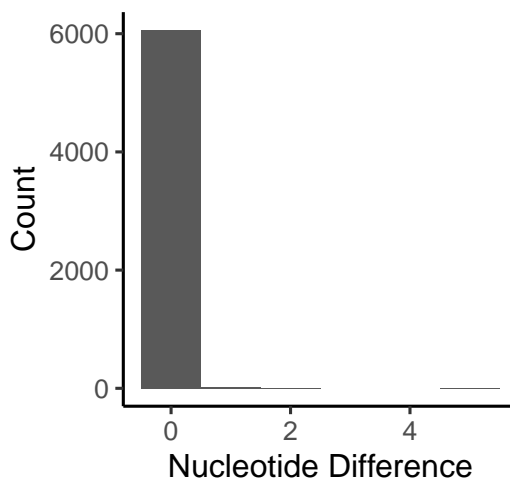
### TRBV19\*ap01

7590 sequences assigned  
7566 (99.7%) exact matches, in which:  
7551 unique CDR3  
13 unique J



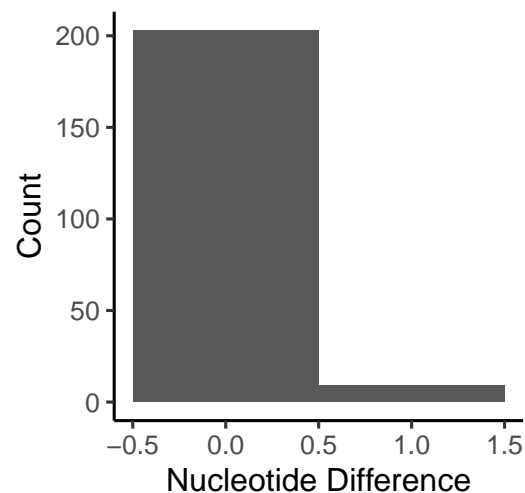
### TRBV27\*ap01

6090 sequences assigned  
6062 (99.5%) exact matches, in which:  
6042 unique CDR3  
13 unique J



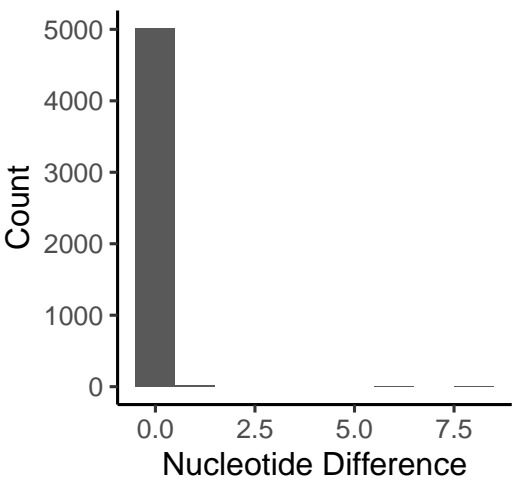
### TRBV30\*ap03

212 sequences assigned  
203 (95.8%) exact matches, in which:  
203 unique CDR3  
11 unique J



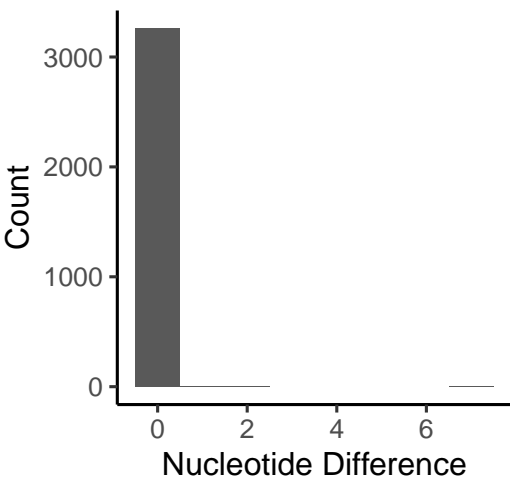
TRBV9\*ap01

5033 sequences assigned  
5013 (99.6%) exact matches, in which:  
4984 unique CDR3  
13 unique J



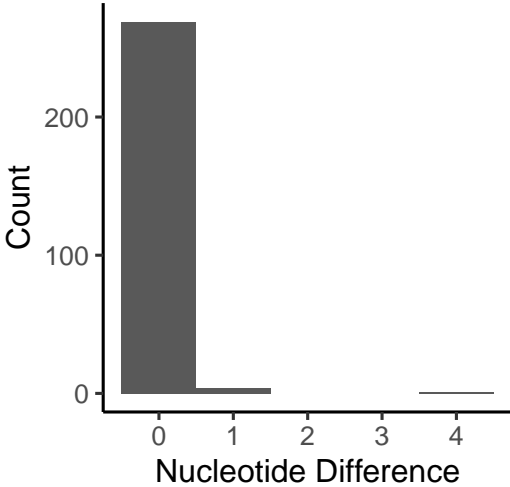
TRBV11-2\*ap01

3270 sequences assigned  
3260 (99.7%) exact matches, in which:  
3247 unique CDR3  
13 unique J



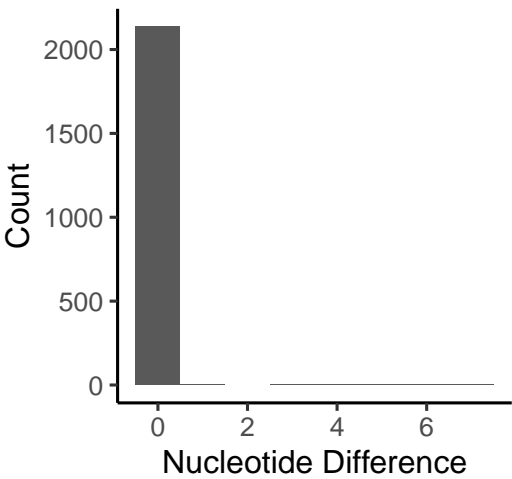
TRBV12-2\*ap01

274 sequences assigned  
269 (98.2%) exact matches, in which:  
265 unique CDR3  
13 unique J



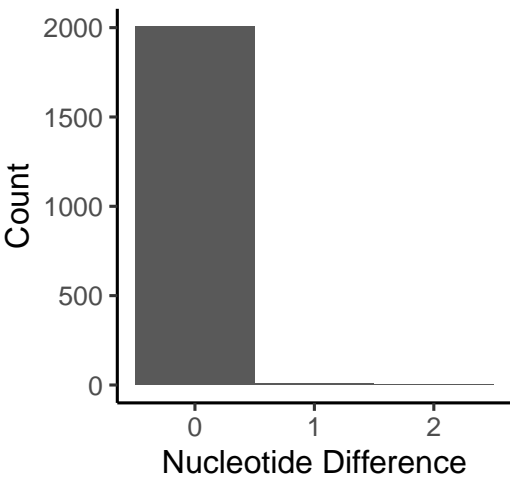
TRBV21-1\*ap01

2149 sequences assigned  
2136 (99.4%) exact matches, in which:  
2133 unique CDR3  
13 unique J



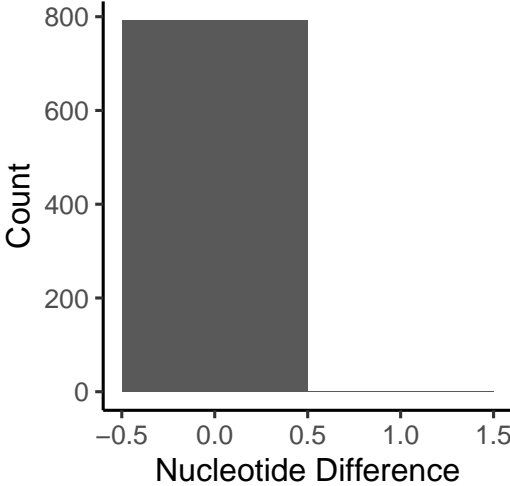
TRBV11-3\*ap01

2013 sequences assigned  
2005 (99.6%) exact matches, in which:  
1988 unique CDR3  
13 unique J



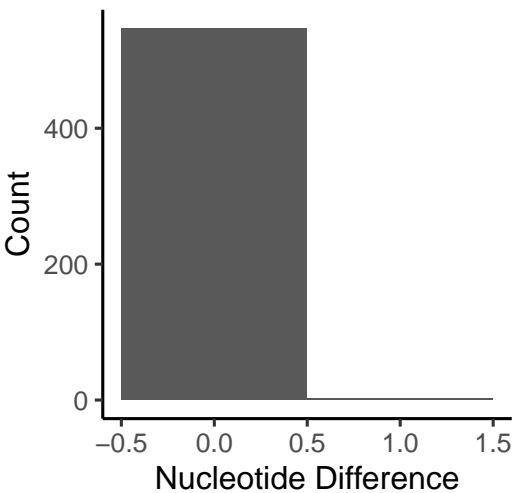
TRBV12-5\*ap01

795 sequences assigned  
793 (99.7%) exact matches, in which:  
792 unique CDR3  
13 unique J



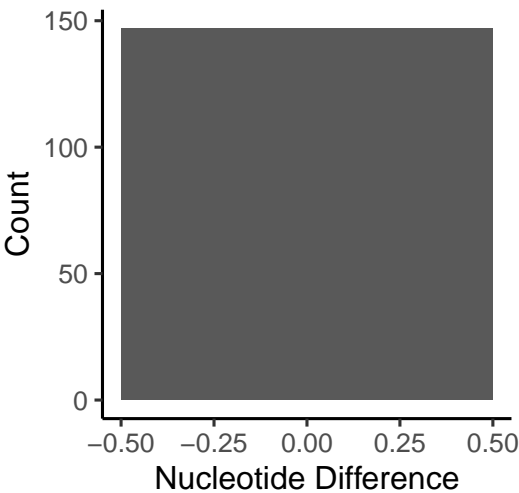
TRBV11-1\*ap01

549 sequences assigned  
547 (99.6%) exact matches, in which:  
543 unique CDR3  
13 unique J



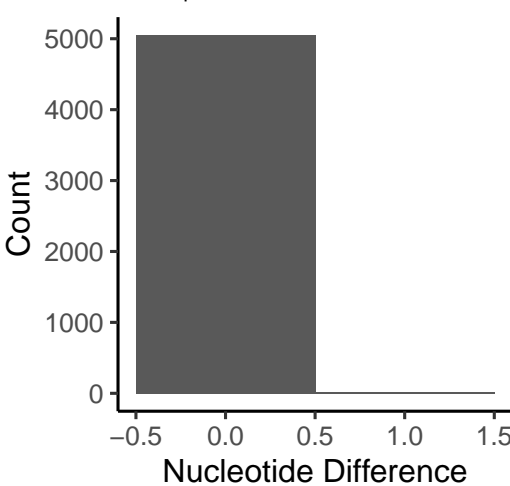
TRBV12-1\*ap01

147 sequences assigned  
147 (100%) exact matches, in which:  
147 unique CDR3  
13 unique J



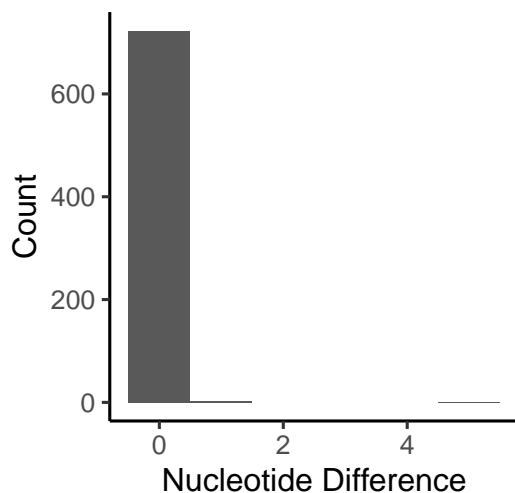
TRBV12-34\*ap01

5067 sequences assigned  
5052 (99.7%) exact matches, in which:  
5039 unique CDR3  
13 unique J



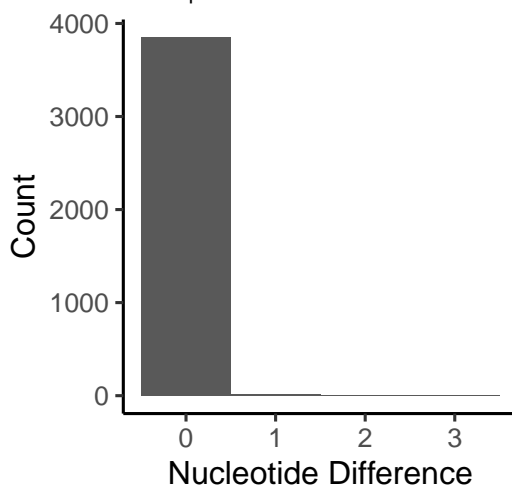
### TRBV23-1\*ap01

727 sequences assigned  
723 (99.4%) exact matches, in which:  
719 unique CDR3  
13 unique J



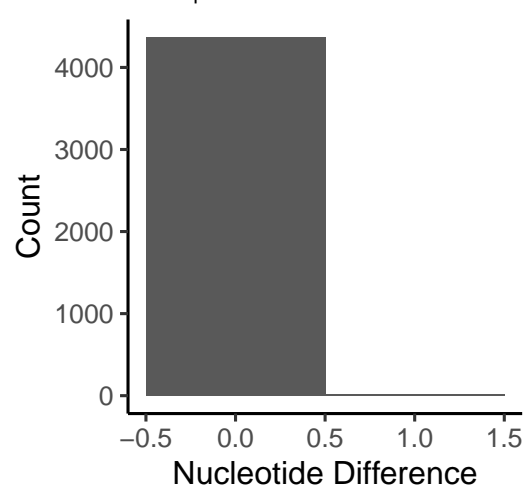
### TRBV4-1\*ap01

3863 sequences assigned  
3850 (99.7%) exact matches, in which:  
3830 unique CDR3  
13 unique J



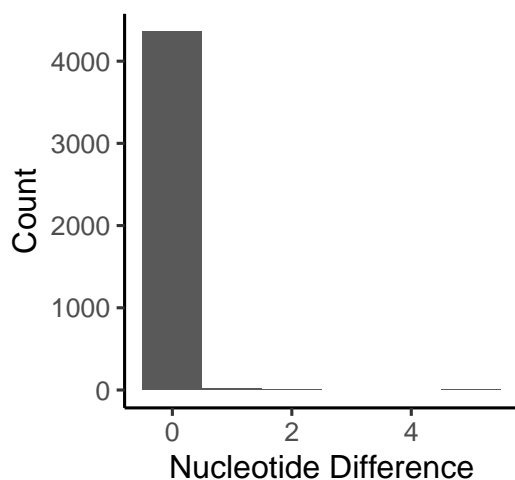
### TRBV5-1\*ap01

4380 sequences assigned  
4366 (99.7%) exact matches, in which:  
4314 unique CDR3  
13 unique J



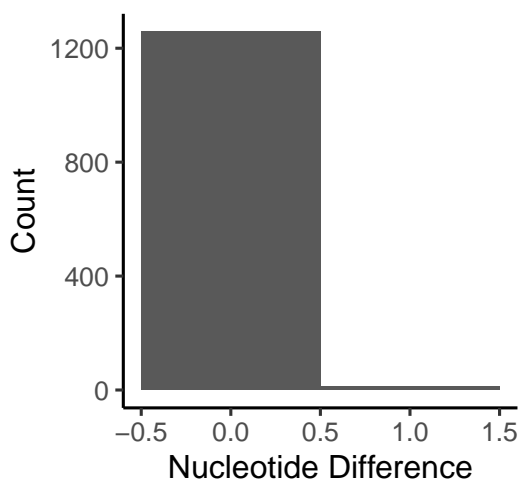
### TRBV3-12\*ap01

4384 sequences assigned  
4358 (99.4%) exact matches, in which:  
4354 unique CDR3  
13 unique J



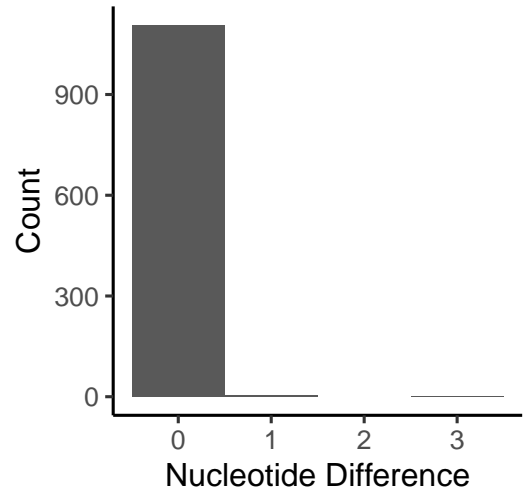
### TRBV4-2\*ap01

1269 sequences assigned  
1258 (99.1%) exact matches, in which:  
1254 unique CDR3  
13 unique J



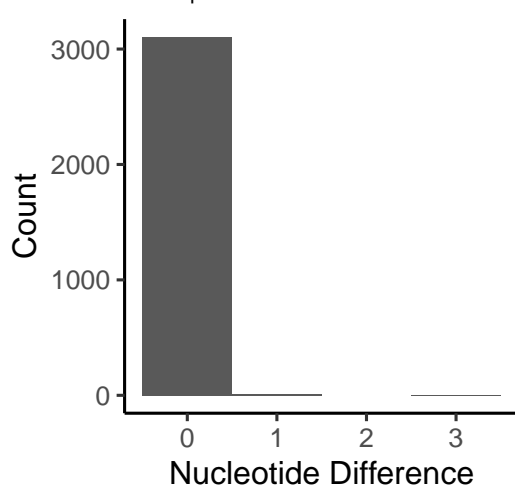
### TRBV25-1\*ap01

1111 sequences assigned  
1107 (99.6%) exact matches, in which:  
1105 unique CDR3  
13 unique J



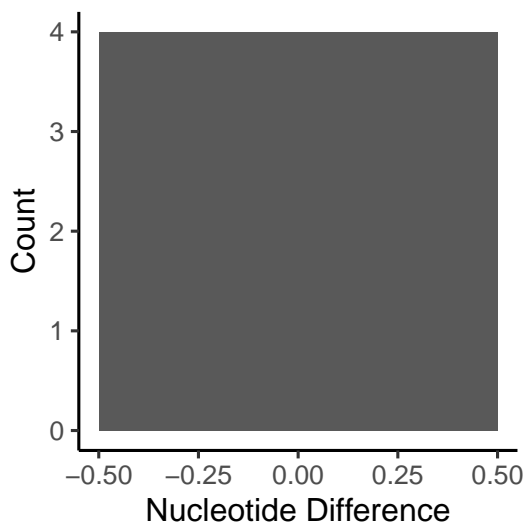
### TRBV24-1\*ap01

3116 sequences assigned  
3104 (99.6%) exact matches, in which:  
3098 unique CDR3  
13 unique J



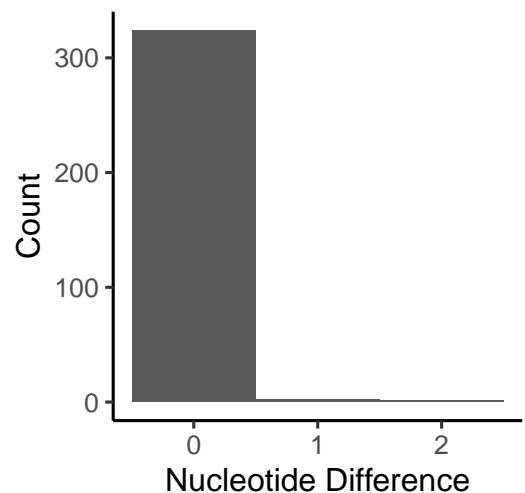
### TRBV4-3\*ap01

4 sequences assigned  
4 (100%) exact matches, in which:  
4 unique CDR3  
3 unique J



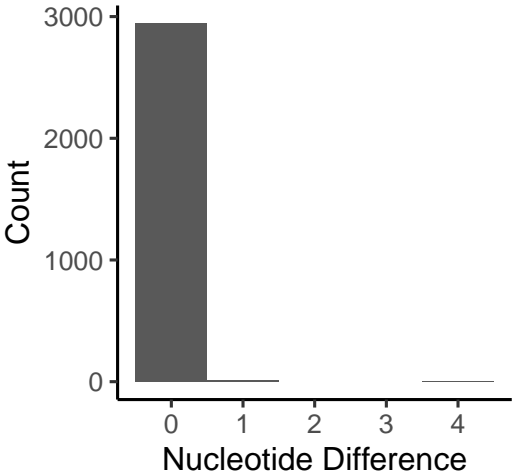
### TRBV5-3\*ap01

327 sequences assigned  
324 (99.1%) exact matches, in which:  
321 unique CDR3  
13 unique J



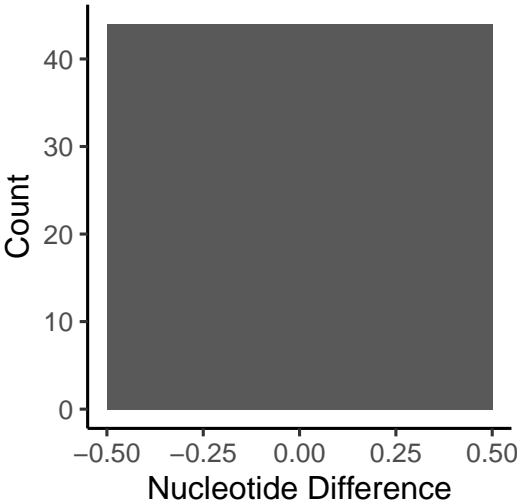
TRBV5-4\*ap01

2959 sequences assigned  
2944 (99.5%) exact matches, in which:  
2932 unique CDR3  
13 unique J



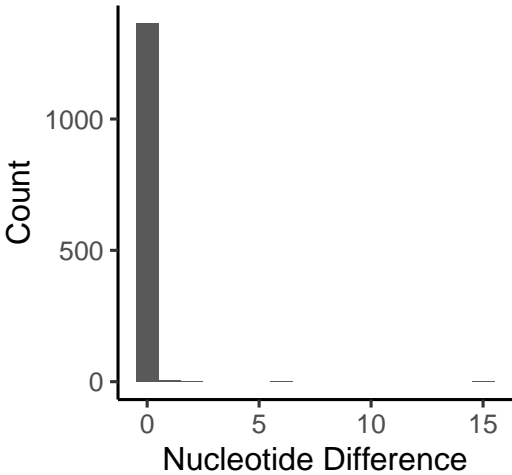
TRBV5-7\*ap01

44 sequences assigned  
44 (100%) exact matches, in which:  
44 unique CDR3  
11 unique J



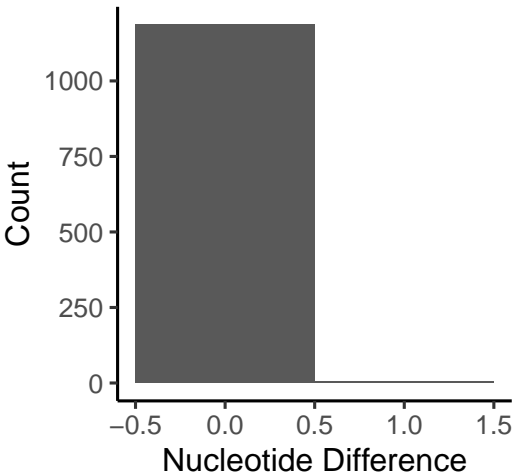
TRBV6-4\*ap01

1374 sequences assigned  
1364 (99.3%) exact matches, in which:  
1363 unique CDR3  
13 unique J



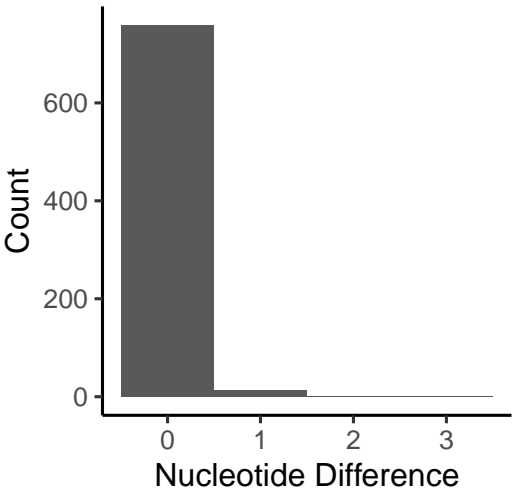
TRBV5-5\*ap01

1191 sequences assigned  
1186 (99.6%) exact matches, in which:  
1183 unique CDR3  
13 unique J



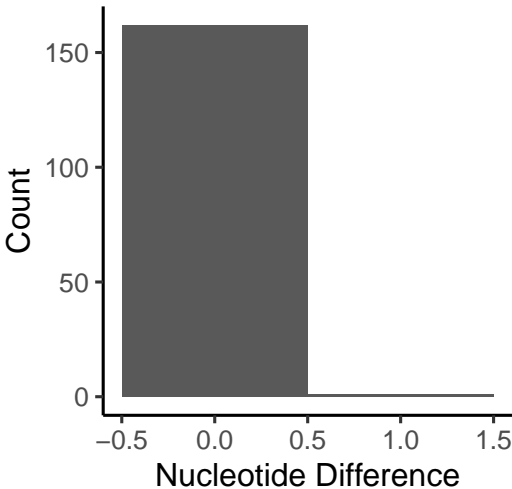
TRBV5-8\*ap01

775 sequences assigned  
759 (97.9%) exact matches, in which:  
758 unique CDR3  
13 unique J



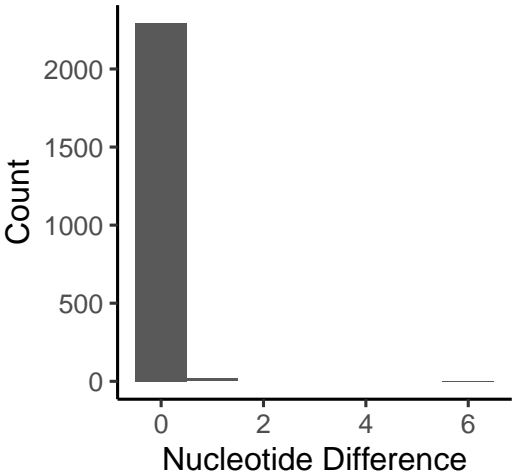
TRBV6-7\*ap01

163 sequences assigned  
162 (99.4%) exact matches, in which:  
162 unique CDR3  
13 unique J



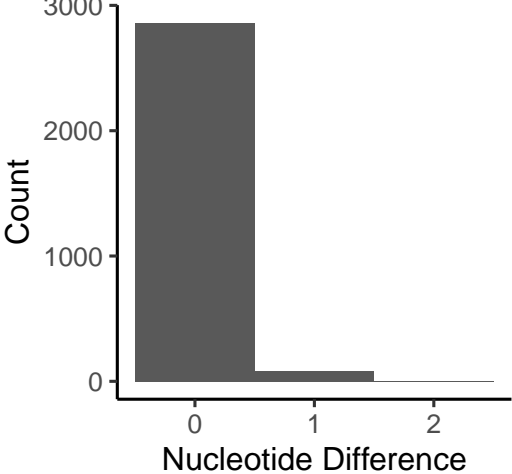
TRBV5-6\*ap01

2314 sequences assigned  
2294 (99.1%) exact matches, in which:  
2272 unique CDR3  
13 unique J



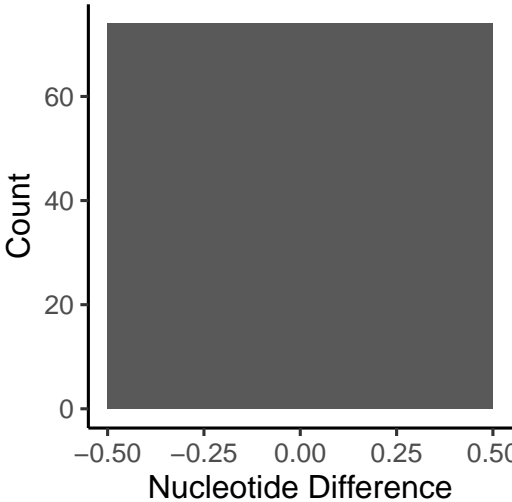
TRBV6-1\*ap01

2942 sequences assigned  
2859 (97.2%) exact matches, in which:  
2847 unique CDR3  
13 unique J



TRBV6-8\*ap01

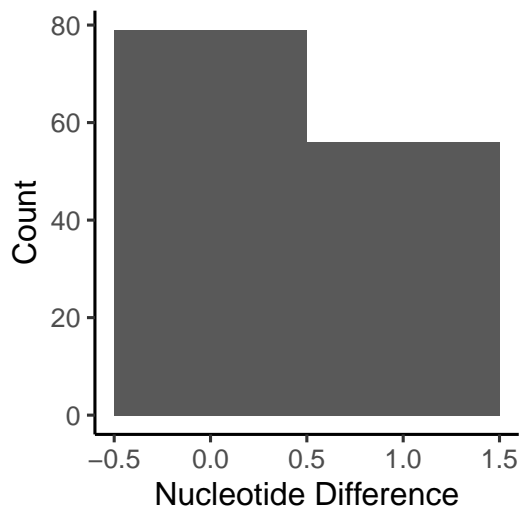
74 sequences assigned  
74 (100%) exact matches, in which:  
73 unique CDR3  
13 unique J





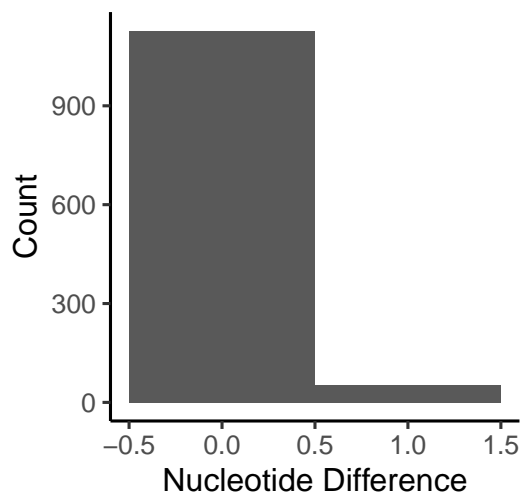
### TRBV6–9\*ap01

135 sequences assigned  
79 (58.5%) exact matches, in which:  
79 unique CDR3  
13 unique J



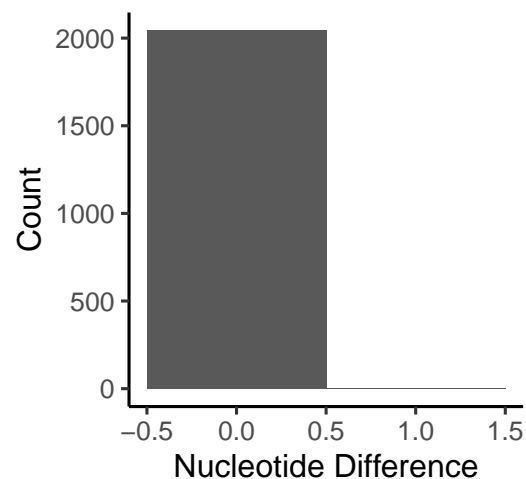
### TRBV6–56\*ap02

1182 sequences assigned  
1128 (95.4%) exact matches, in which:  
1123 unique CDR3  
13 unique J



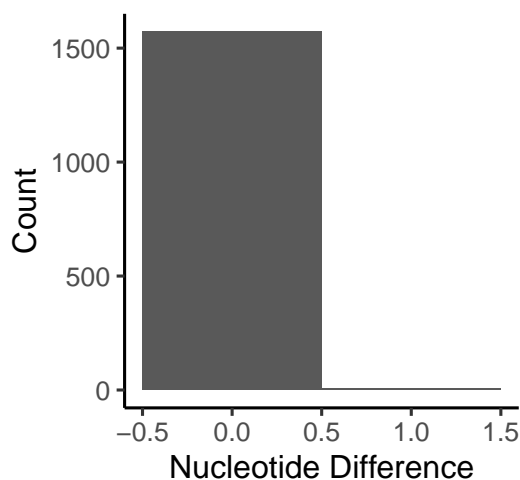
### TRBV7–2\*ap01

2048 sequences assigned  
2044 (99.8%) exact matches, in which:  
2037 unique CDR3  
13 unique J



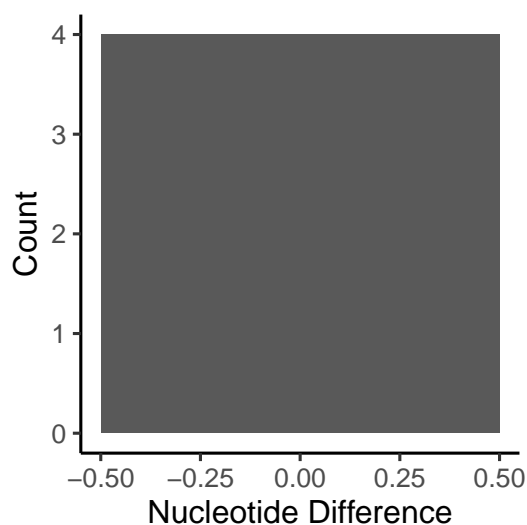
### TRBV6–23\*ap01

1577 sequences assigned  
1572 (99.7%) exact matches, in which:  
1568 unique CDR3  
13 unique J



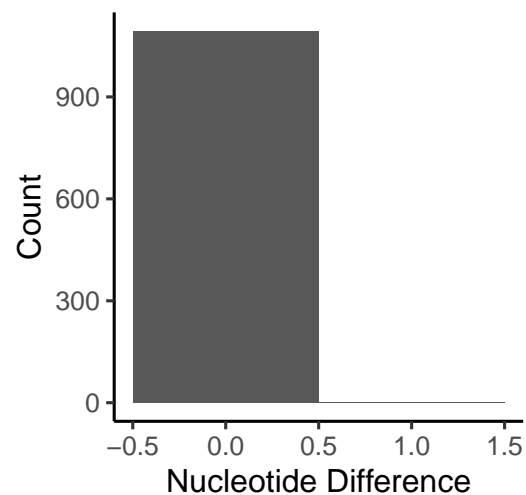
### TRBV7–1\*ap01

4 sequences assigned  
4 (100%) exact matches, in which:  
4 unique CDR3  
3 unique J



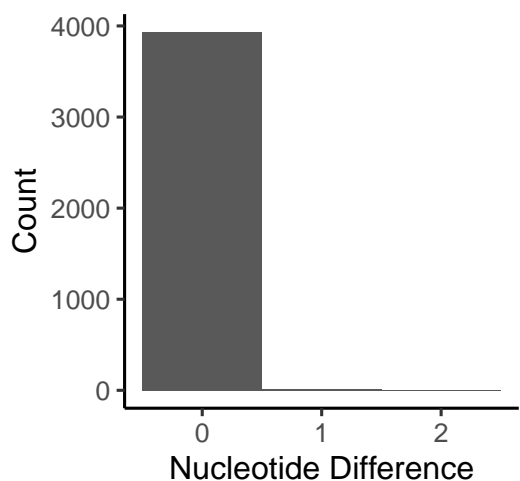
### TRBV7–3\*ap01

1095 sequences assigned  
1094 (99.9%) exact matches, in which:  
1082 unique CDR3  
13 unique J



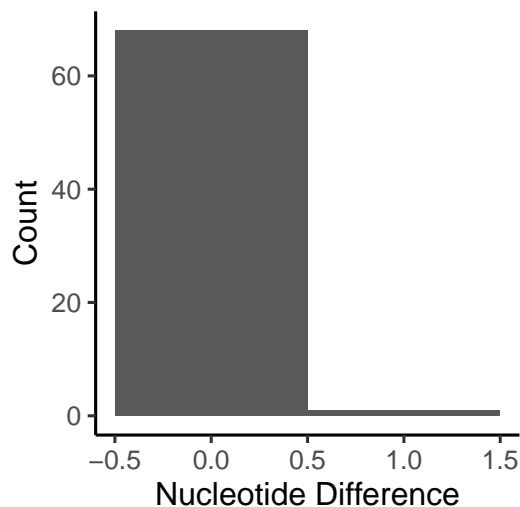
### TRBV6–56\*ap01

3949 sequences assigned  
3933 (99.6%) exact matches, in which:  
3920 unique CDR3  
13 unique J



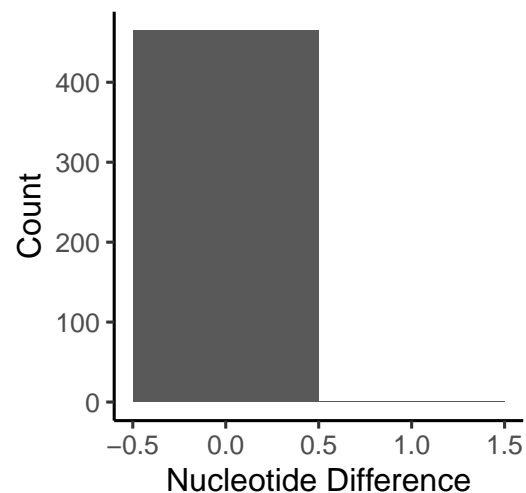
### TRBV7–1\*ap01\_G291C\_T

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



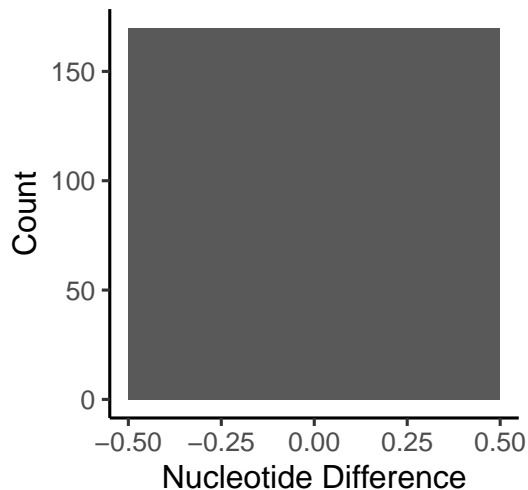
### TRBV7–3\*ap01\_G292T

466 sequences assigned  
465 (99.8%) exact matches, in which:  
463 unique CDR3  
13 unique J



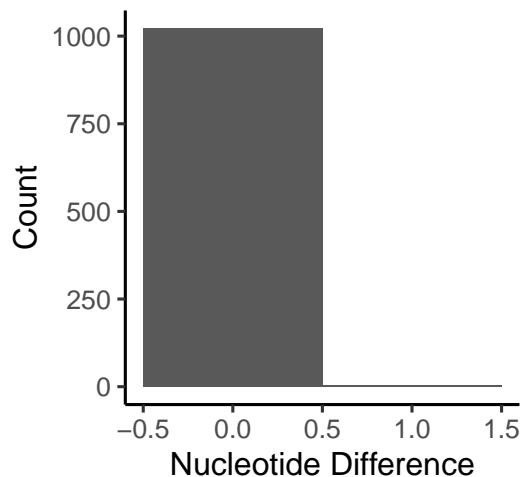
### TRBV7-4\*ap01

170 sequences assigned  
170 (100%) exact matches, in which:  
170 unique CDR3  
12 unique J



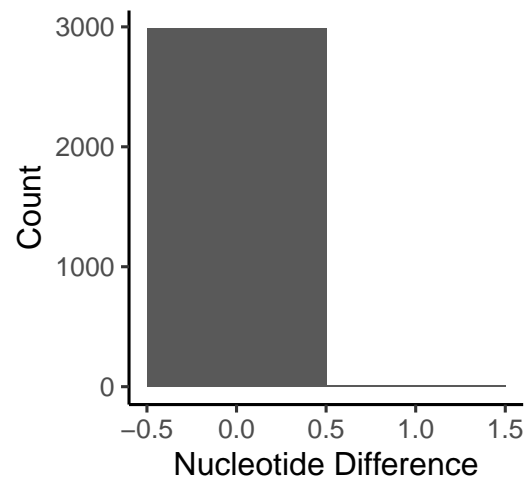
### TRBV7-8\*ap01

1026 sequences assigned  
1022 (99.6%) exact matches, in which:  
1015 unique CDR3  
13 unique J



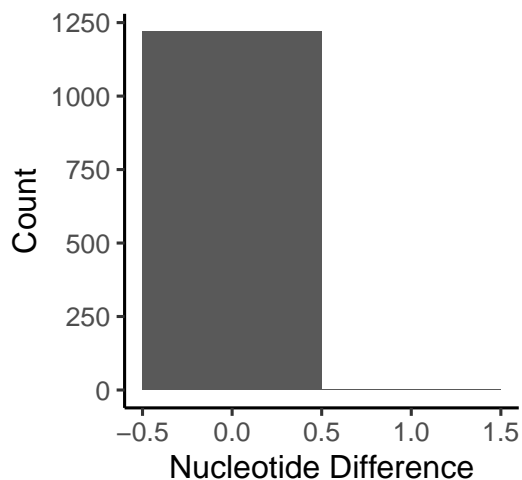
### TRBV29-1\*ap01

2999 sequences assigned  
2987 (99.6%) exact matches, in which:  
2969 unique CDR3  
13 unique J



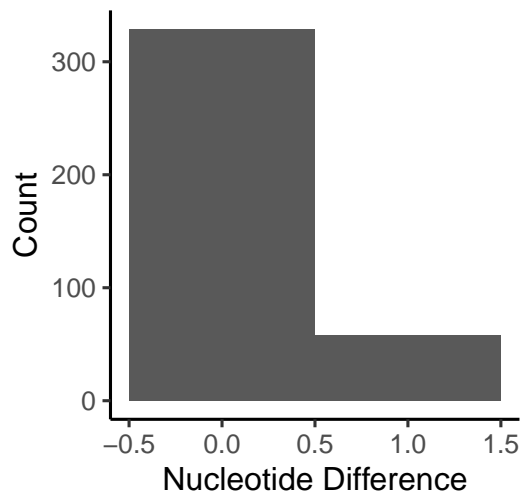
### TRBV7-6\*ap01

1221 sequences assigned  
1219 (99.8%) exact matches, in which:  
1213 unique CDR3  
13 unique J



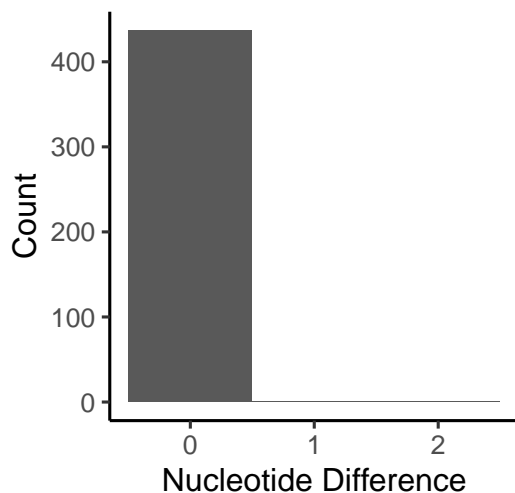
### TRBV7-8\*ap03

387 sequences assigned  
329 (85%) exact matches, in which:  
328 unique CDR3  
13 unique J



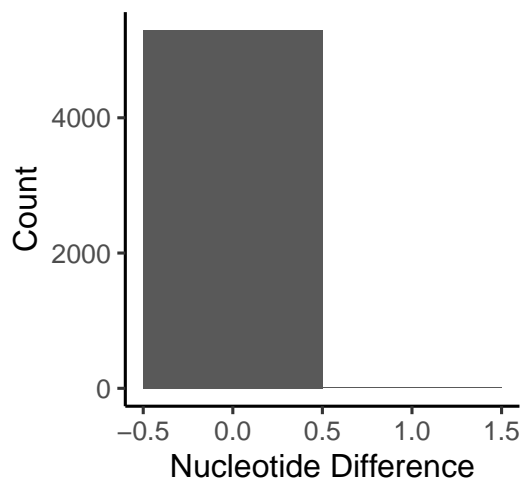
### TRBV7-7\*ap01\_C315T

439 sequences assigned  
437 (99.5%) exact matches, in which:  
436 unique CDR3  
13 unique J

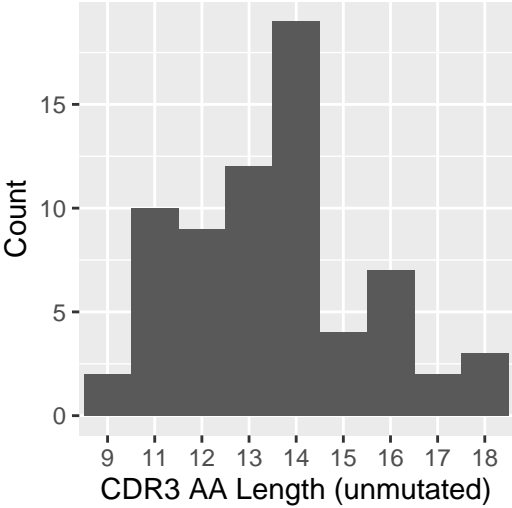


### TRBV7-9\*ap01

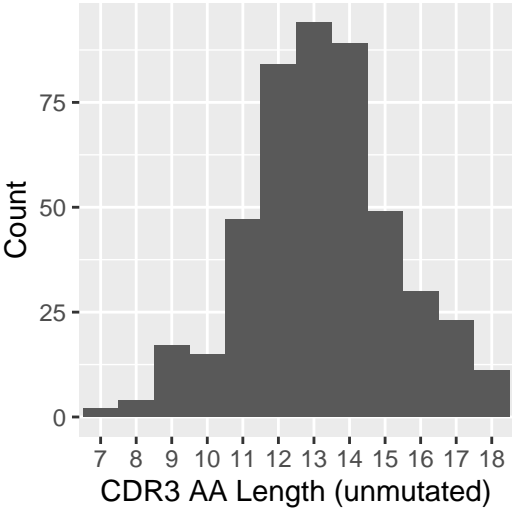
5311 sequences assigned  
5297 (99.7%) exact matches, in which:  
5278 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-3\*ap01\_G292T



TRBV7-7\*ap01\_C315T

