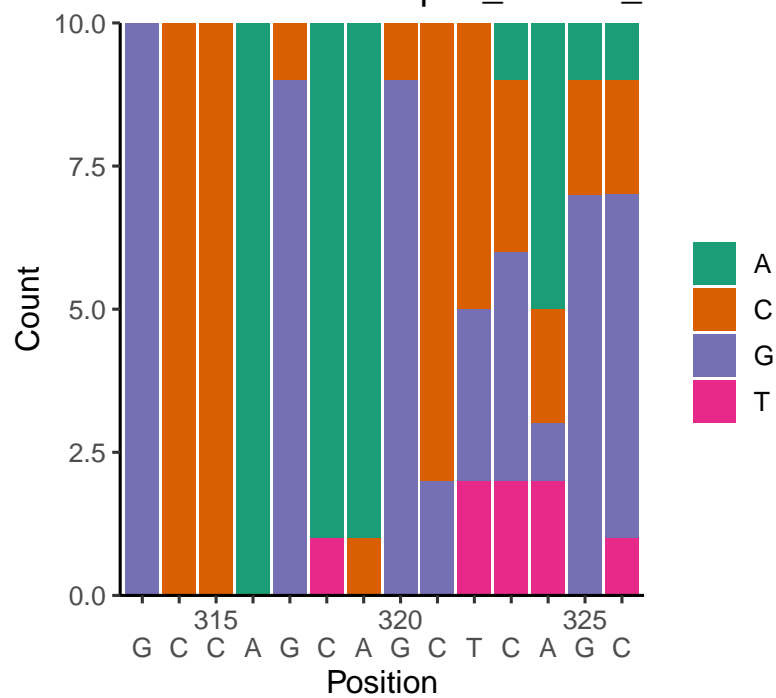
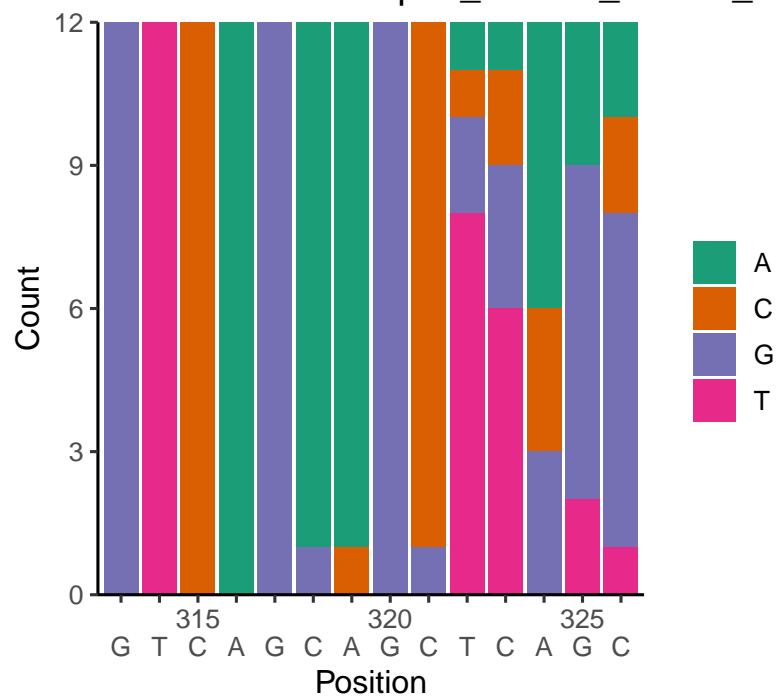


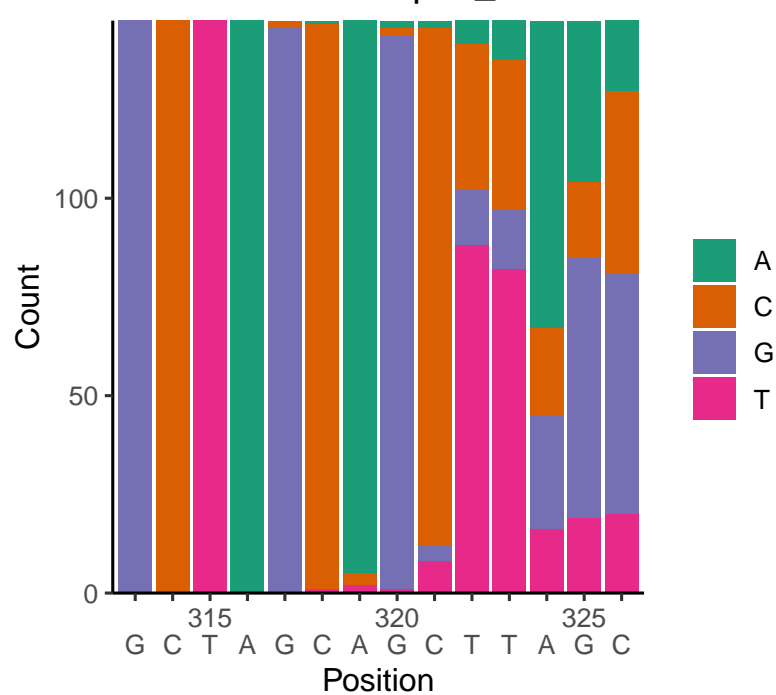
Gene TRBV7-1\*ap01\_G291C\_T296C



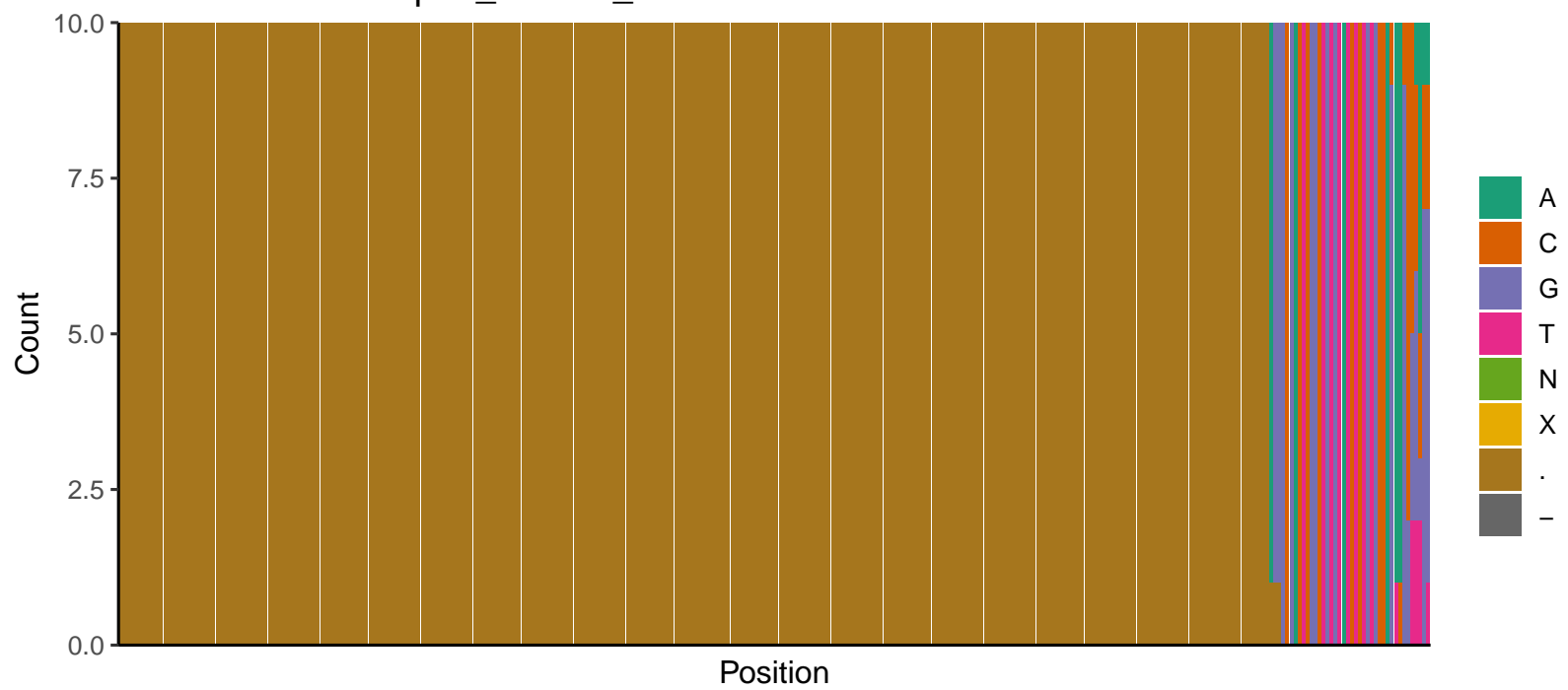
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



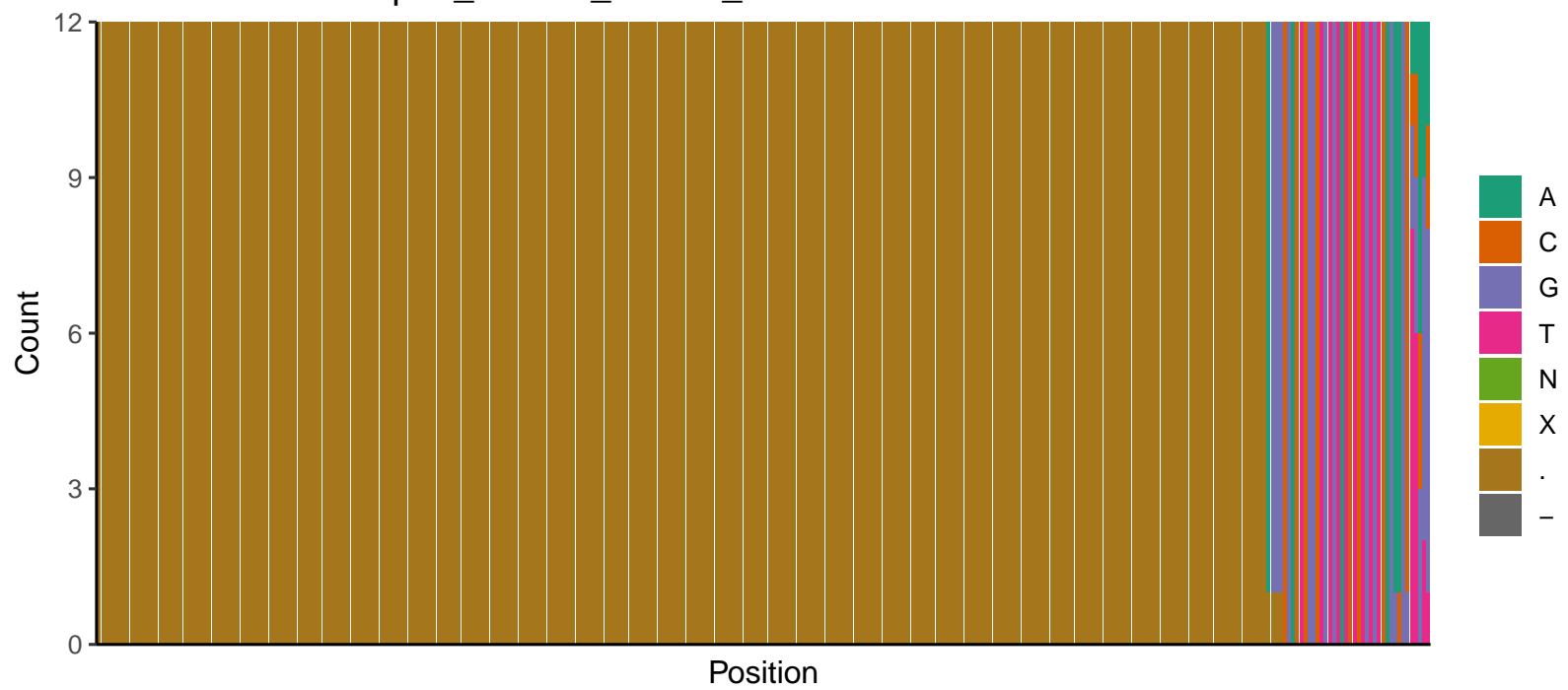
Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_G291C\_T296C



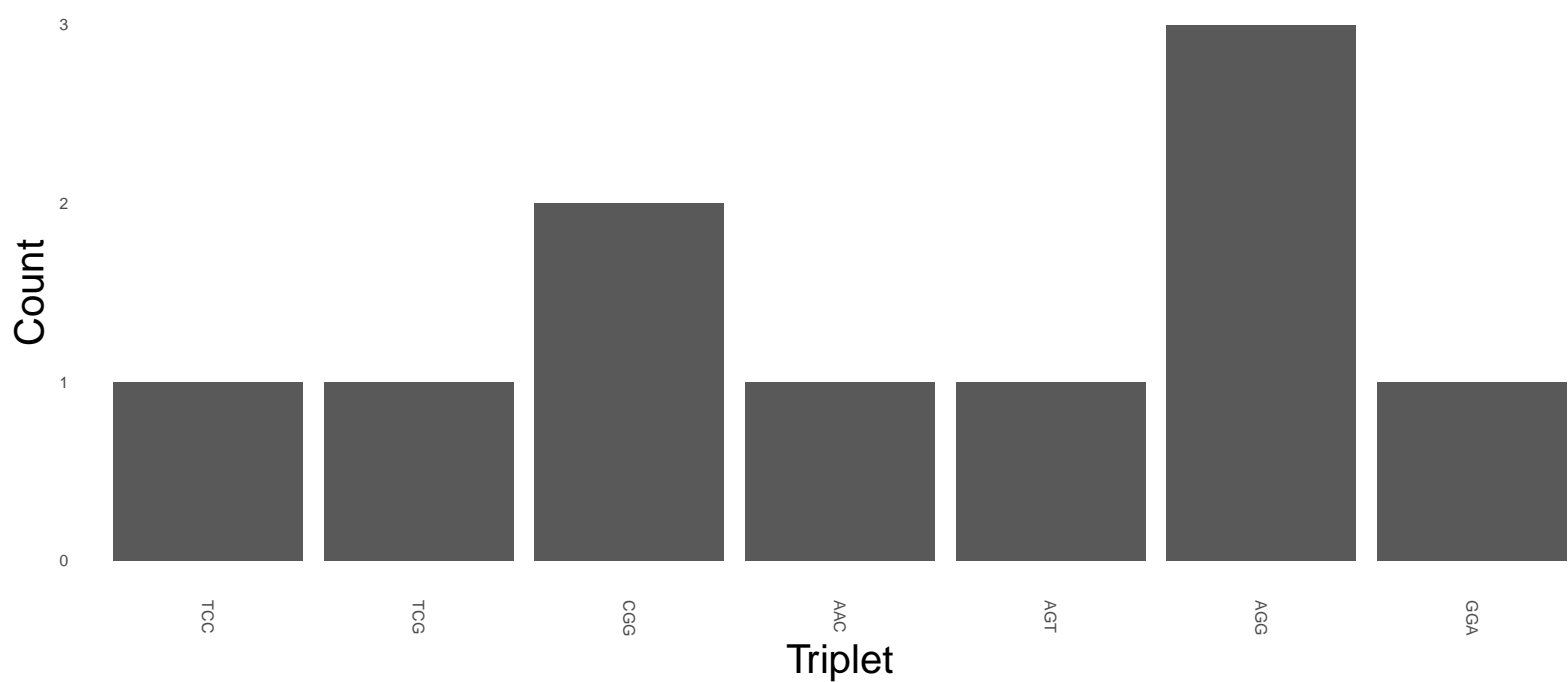
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



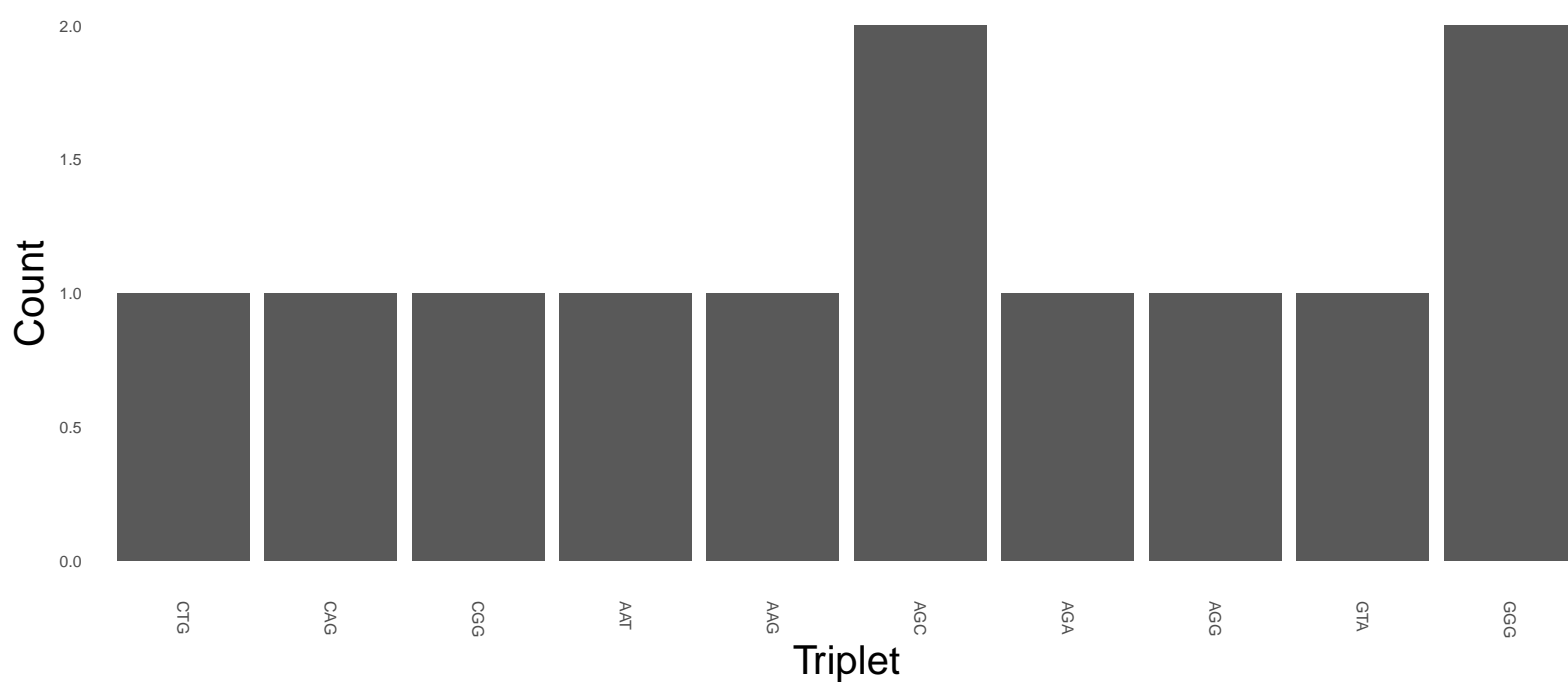
Gene TRBV7-7\*ap01\_C315T



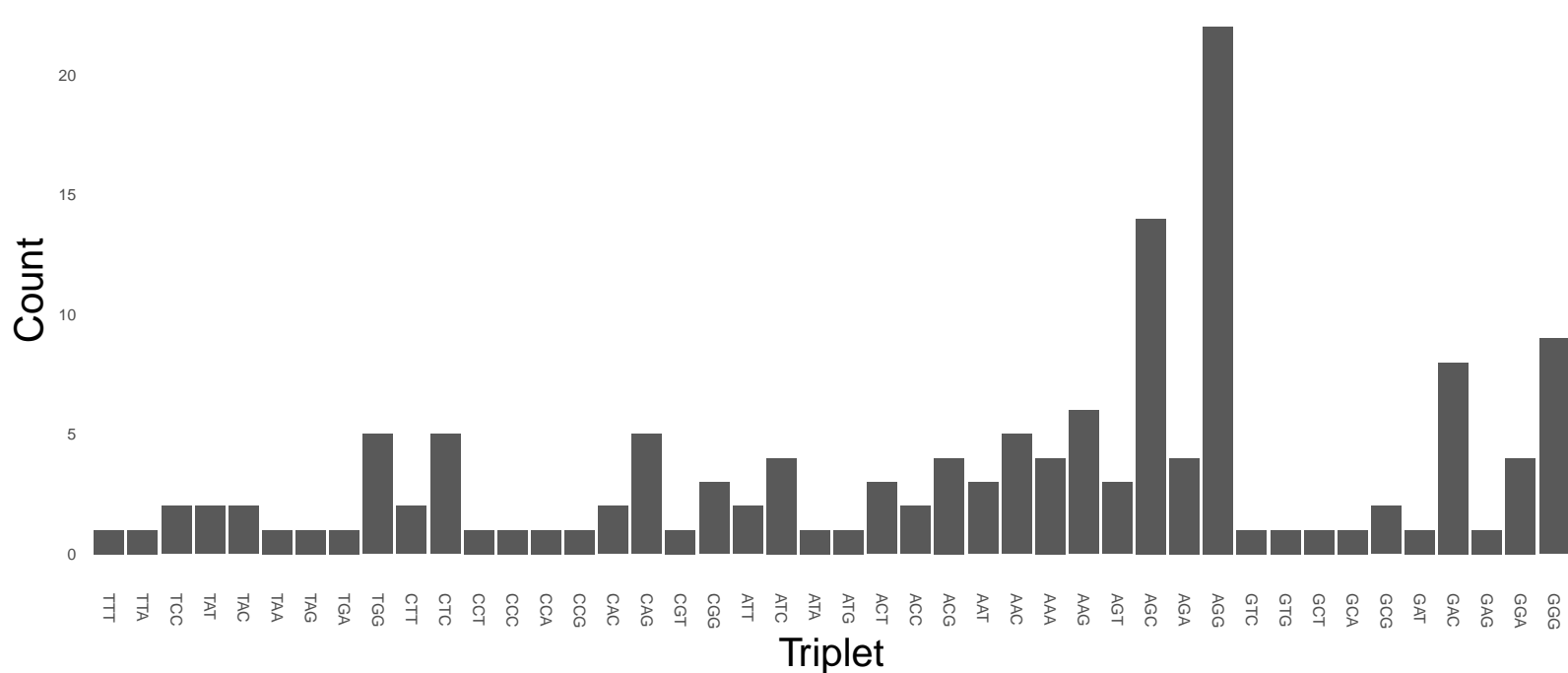
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



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

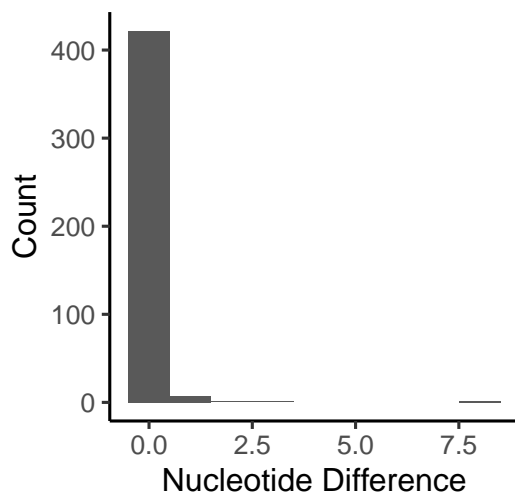


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



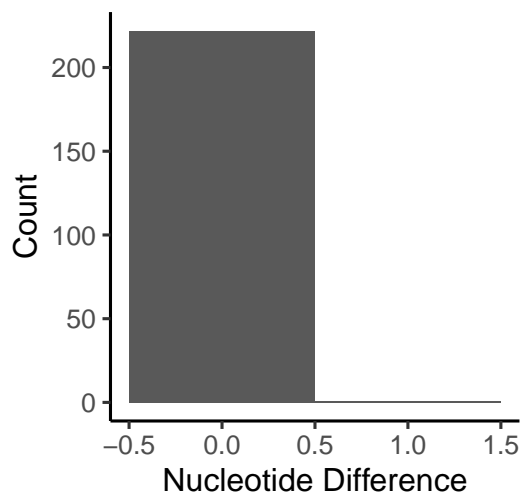
### TRBV10–1\*ap01

433 sequences assigned  
422 (97.5%) exact matches, in which:  
421 unique CDR3  
13 unique J



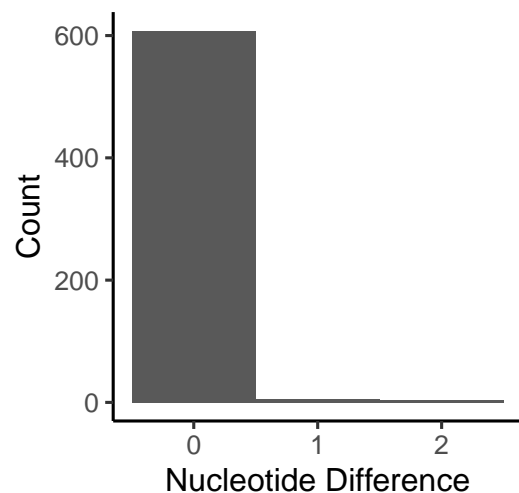
### TRBV10–2\*ap01

223 sequences assigned  
222 (99.6%) exact matches, in which:  
221 unique CDR3  
12 unique J



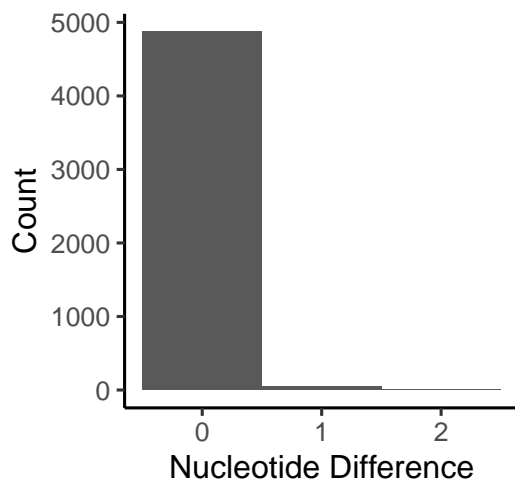
### TRBV13\*ap01

618 sequences assigned  
608 (98.4%) exact matches, in which:  
603 unique CDR3  
13 unique J



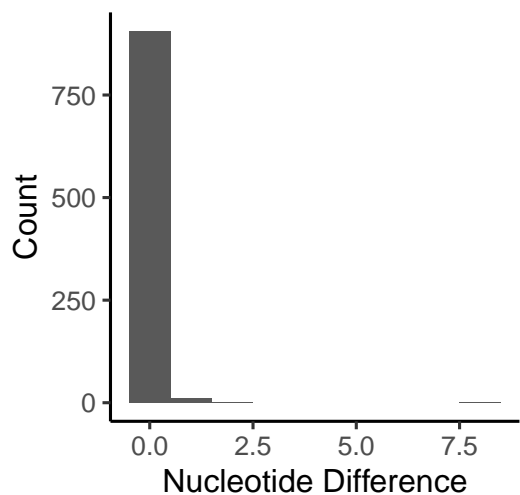
### TRBV20–1\*ap01

4920 sequences assigned  
4873 (99%) exact matches, in which:  
4807 unique CDR3  
13 unique J



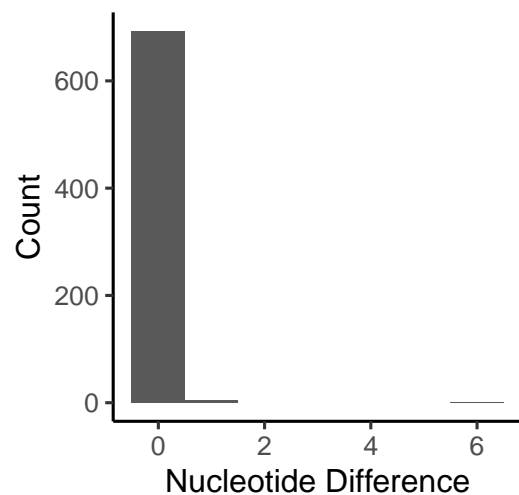
### TRBV10–3\*ap01

920 sequences assigned  
906 (98.5%) exact matches, in which:  
905 unique CDR3  
13 unique J



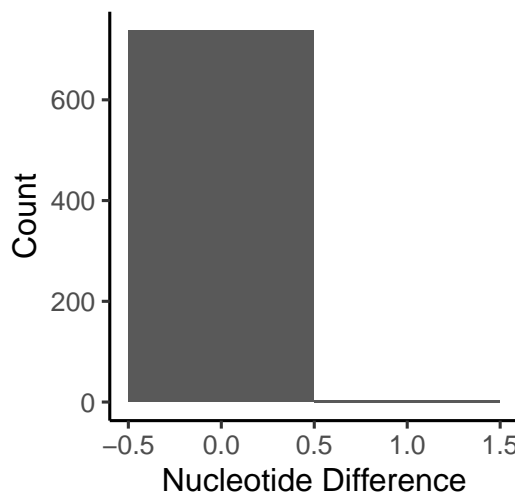
### TRBV14\*ap01

699 sequences assigned  
693 (99.1%) exact matches, in which:  
689 unique CDR3  
13 unique J



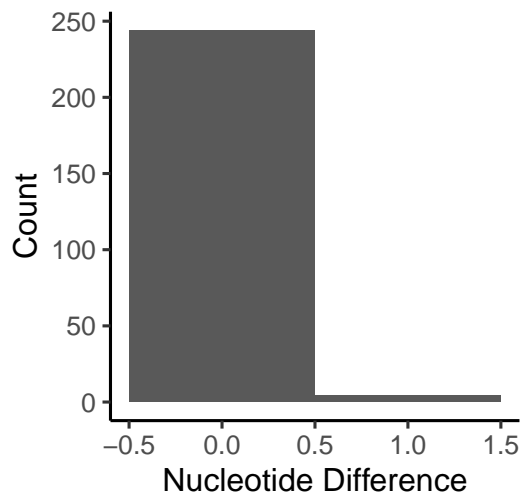
### TRBV20–1\*ap02

742 sequences assigned  
738 (99.5%) exact matches, in which:  
726 unique CDR3  
13 unique J



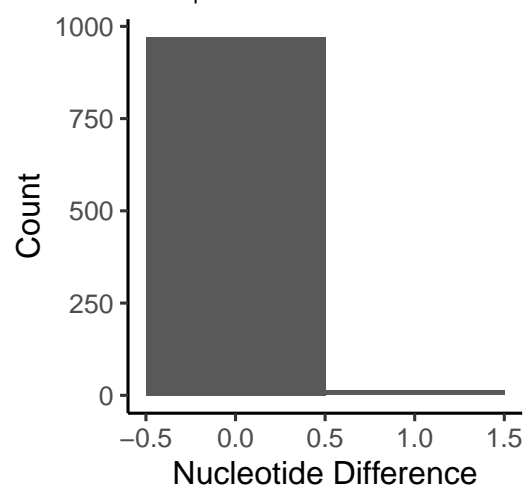
### TRBV1\*ap01

248 sequences assigned  
244 (98.4%) exact matches, in which:  
242 unique CDR3  
13 unique J



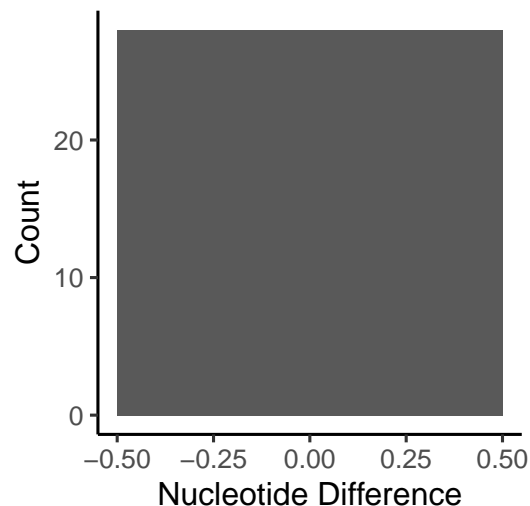
### TRBV15\*ap02

984 sequences assigned  
971 (98.7%) exact matches, in which:  
967 unique CDR3  
13 unique J



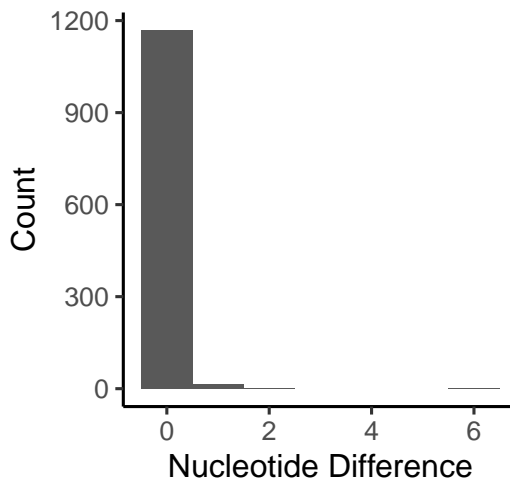
### TRBV16\*ap01

28 sequences assigned  
28 (100%) exact matches, in which:  
28 unique CDR3  
9 unique J



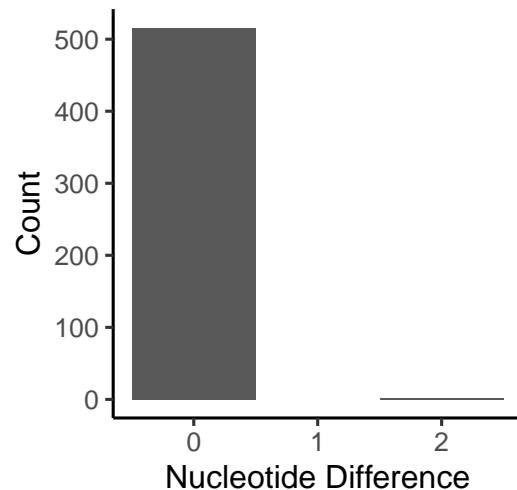
### TRBV2\*ap01

1186 sequences assigned  
1168 (98.5%) exact matches, in which:  
1166 unique CDR3  
13 unique J



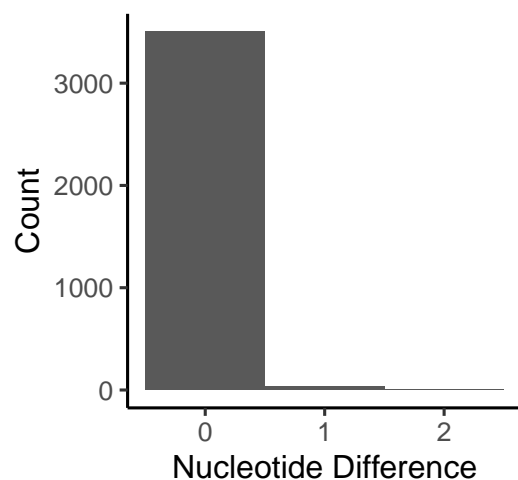
### TRBV28\*ap01

518 sequences assigned  
516 (99.6%) exact matches, in which:  
514 unique CDR3  
13 unique J



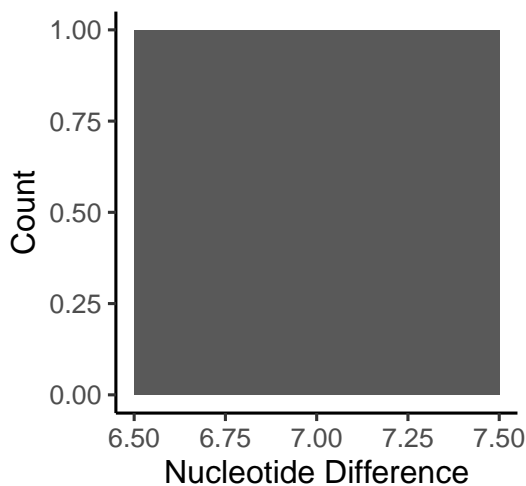
### TRBV18\*ap01

3543 sequences assigned  
3503 (98.9%) exact matches, in which:  
3471 unique CDR3  
13 unique J



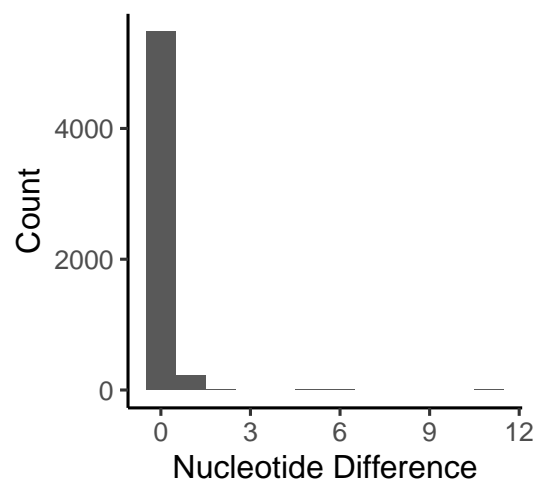
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



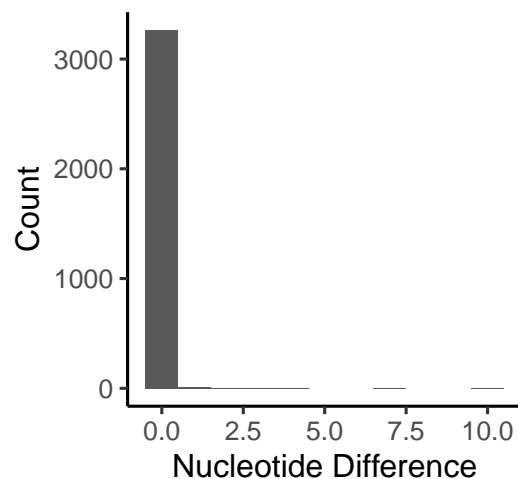
### TRBV30\*ap01

5709 sequences assigned  
5479 (96%) exact matches, in which:  
5316 unique CDR3  
13 unique J



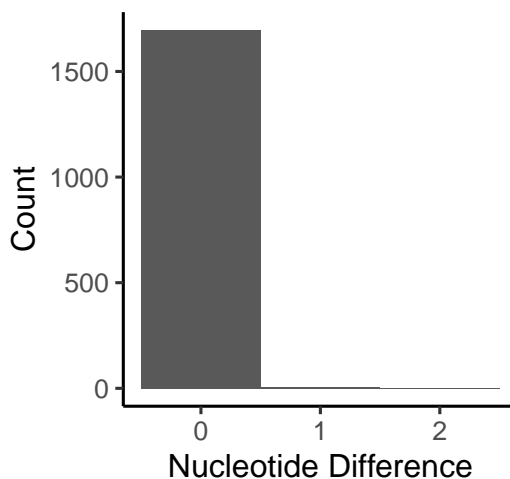
### TRBV19\*ap01

3280 sequences assigned  
3264 (99.5%) exact matches, in which:  
3251 unique CDR3  
13 unique J



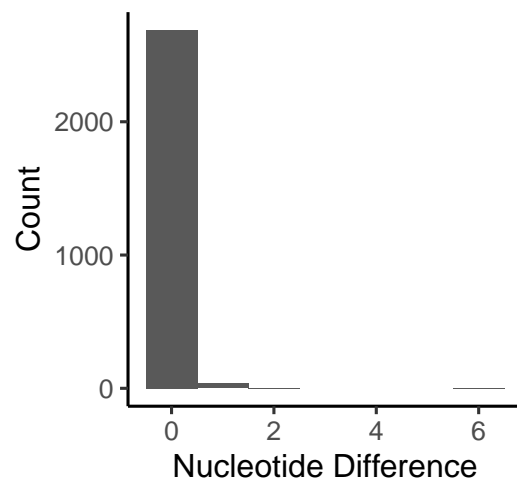
### TRBV27\*ap01

1704 sequences assigned  
1696 (99.5%) exact matches, in which:  
1691 unique CDR3  
13 unique J



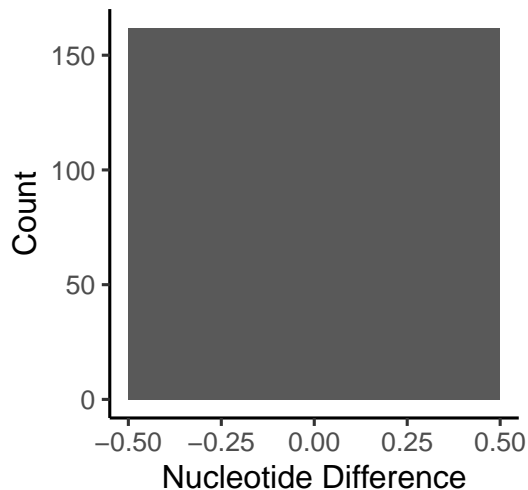
### TRBV9\*ap01

2725 sequences assigned  
2688 (98.6%) exact matches, in which:  
2673 unique CDR3  
13 unique J



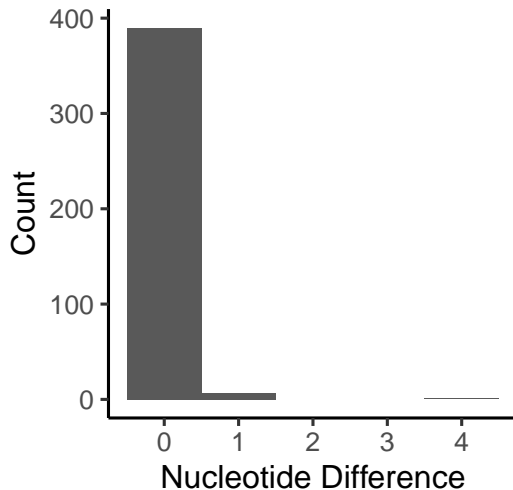
### TRBV11–1\*ap01

162 sequences assigned  
162 (100%) exact matches, in which:  
162 unique CDR3  
11 unique J



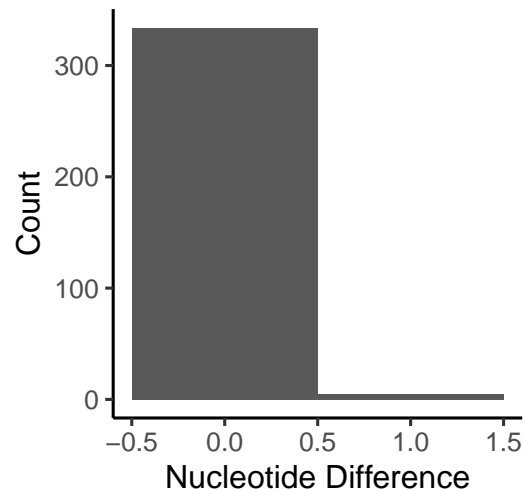
### TRBV11–3\*ap01

398 sequences assigned  
390 (98%) exact matches, in which:  
388 unique CDR3  
13 unique J



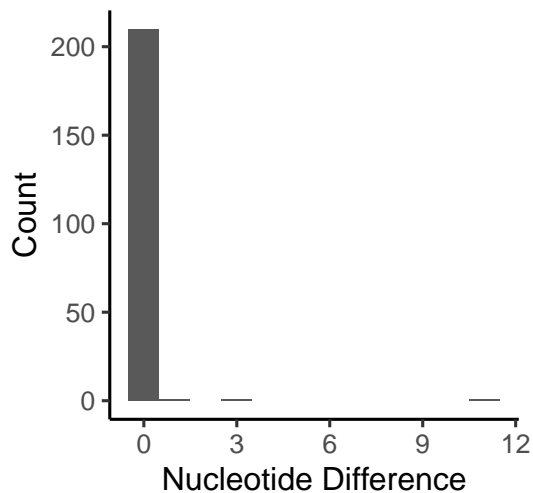
### TRBV12–5\*ap01

339 sequences assigned  
334 (98.5%) exact matches, in which:  
334 unique CDR3  
13 unique J



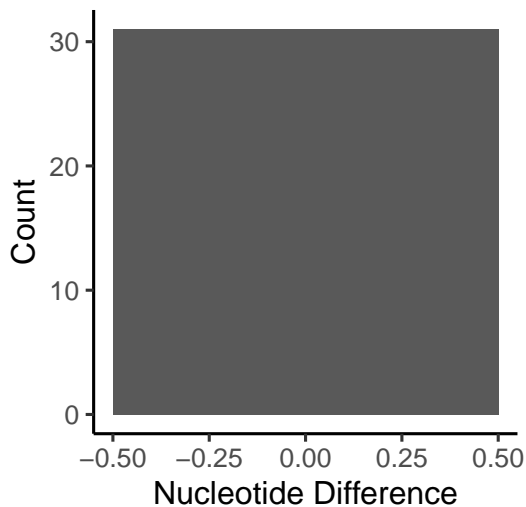
### TRBV21–1\*ap01

213 sequences assigned  
210 (98.6%) exact matches, in which:  
210 unique CDR3  
13 unique J



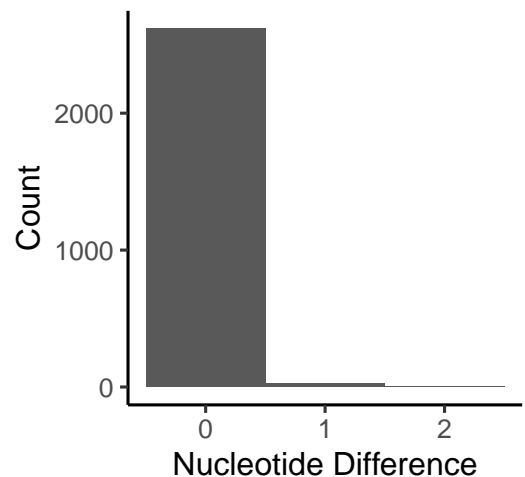
### TRBV12–1\*ap01

31 sequences assigned  
31 (100%) exact matches, in which:  
31 unique CDR3  
10 unique J



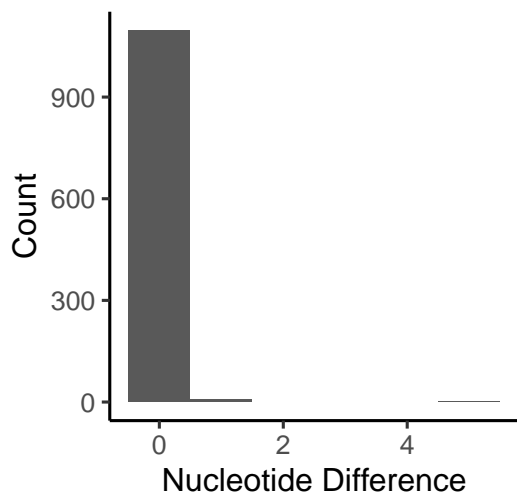
### TRBV12–34\*ap01

2641 sequences assigned  
2617 (99.1%) exact matches, in which:  
2601 unique CDR3  
13 unique J



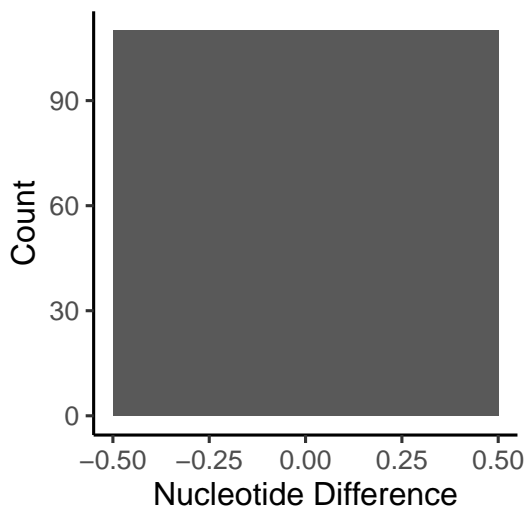
### TRBV11–2\*ap01

1105 sequences assigned  
1097 (99.3%) exact matches, in which:  
1091 unique CDR3  
13 unique J



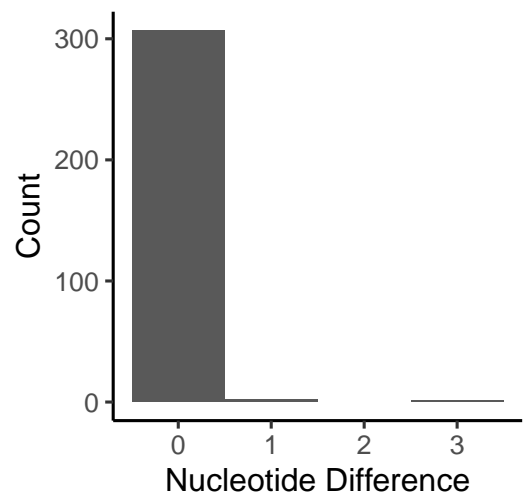
### TRBV12–2\*ap01

110 sequences assigned  
110 (100%) exact matches, in which:  
110 unique CDR3  
12 unique J



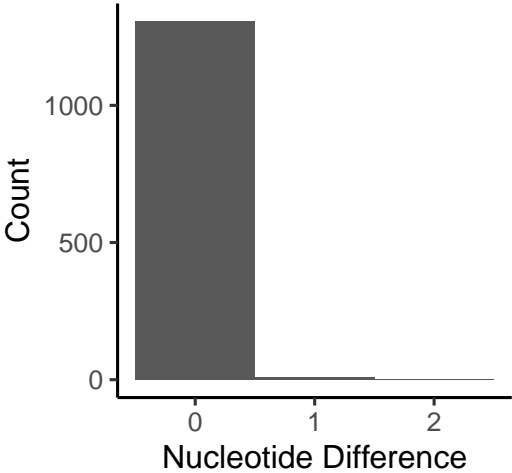
### TRBV23–1\*ap01

310 sequences assigned  
307 (99%) exact matches, in which:  
304 unique CDR3  
13 unique J



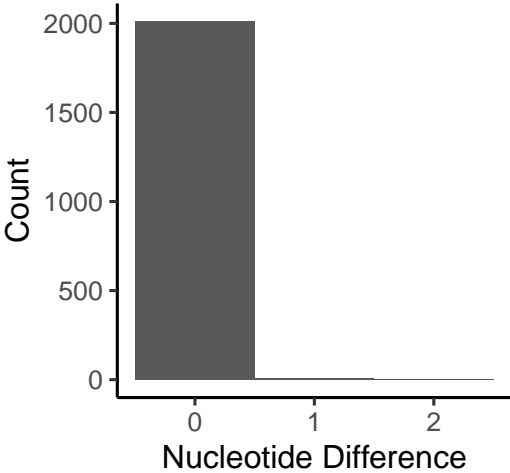
TRBV3-12\*ap01

1317 sequences assigned  
1306 (99.2%) exact matches, in which:  
1303 unique CDR3  
13 unique J



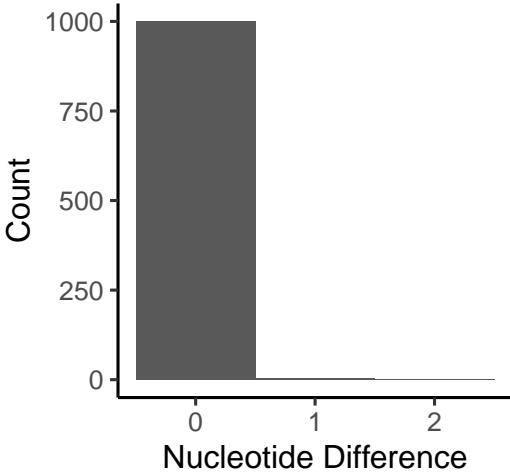
TRBV4-2\*ap01

2018 sequences assigned  
2011 (99.7%) exact matches, in which:  
1993 unique CDR3  
13 unique J



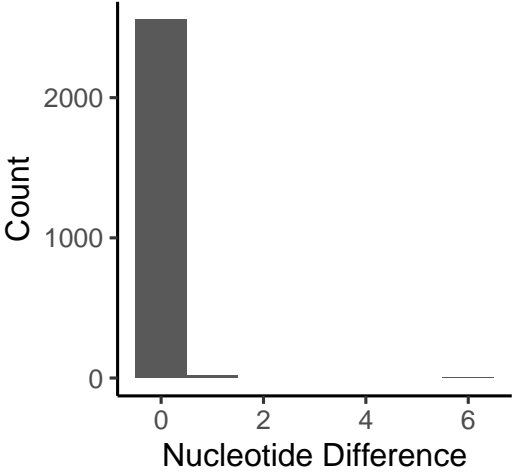
TRBV25-1\*ap01

1005 sequences assigned  
1000 (99.5%) exact matches, in which:  
991 unique CDR3  
13 unique J



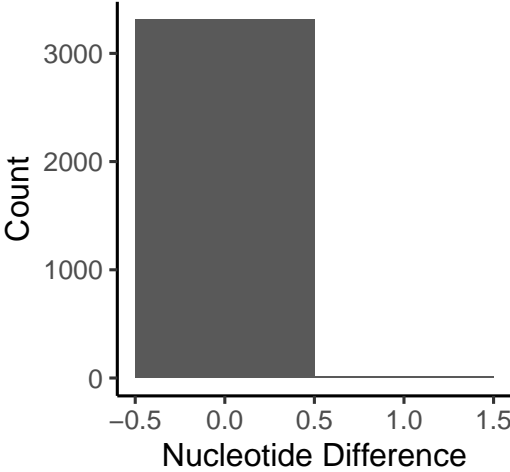
TRBV4-1\*ap01

2579 sequences assigned  
2556 (99.1%) exact matches, in which:  
2529 unique CDR3  
13 unique J



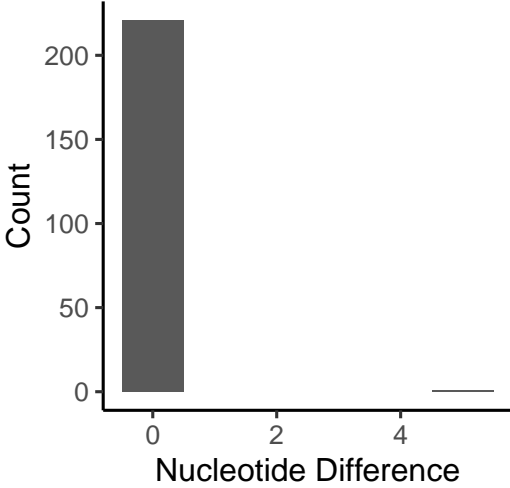
TRBV4-3\*ap01

3329 sequences assigned  
3311 (99.5%) exact matches, in which:  
3279 unique CDR3  
13 unique J



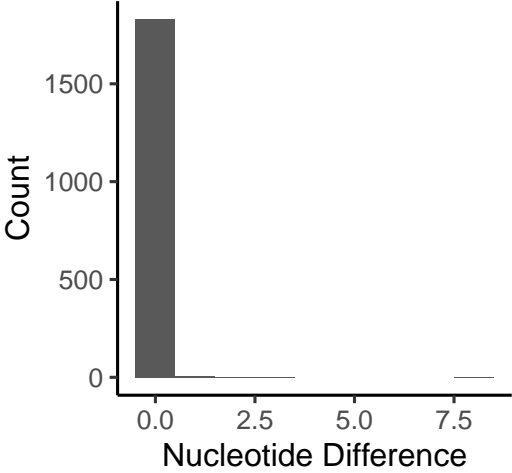
TRBV5-3\*ap01

222 sequences assigned  
221 (99.5%) exact matches, in which:  
220 unique CDR3  
13 unique J



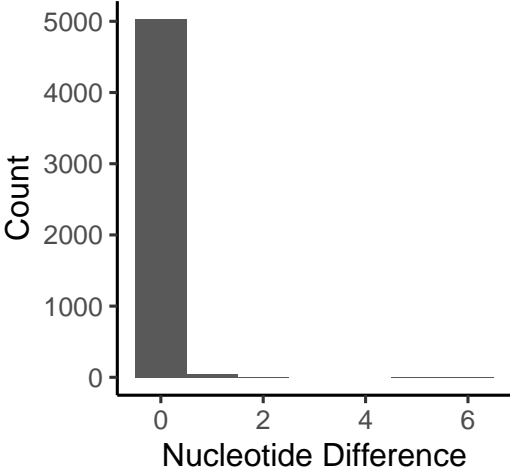
TRBV24-1\*ap01

1841 sequences assigned  
1831 (99.5%) exact matches, in which:  
1829 unique CDR3  
13 unique J



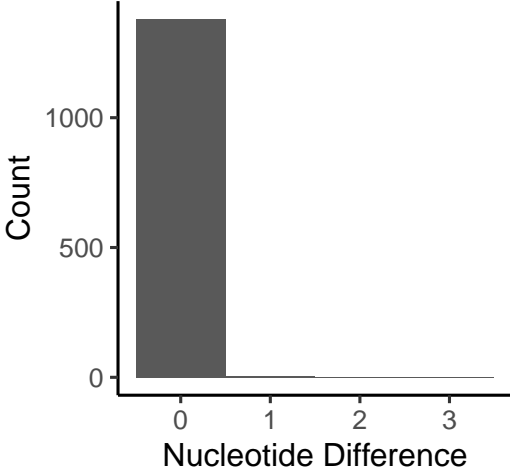
TRBV5-1\*ap01

5083 sequences assigned  
5032 (99%) exact matches, in which:  
4997 unique CDR3  
13 unique J



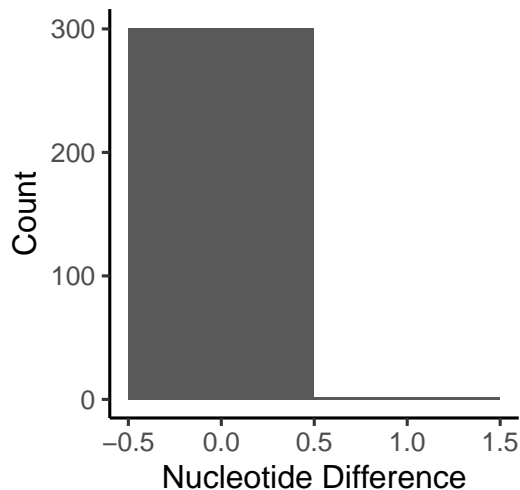
TRBV5-4\*ap01

1388 sequences assigned  
1380 (99.4%) exact matches, in which:  
1377 unique CDR3  
13 unique J



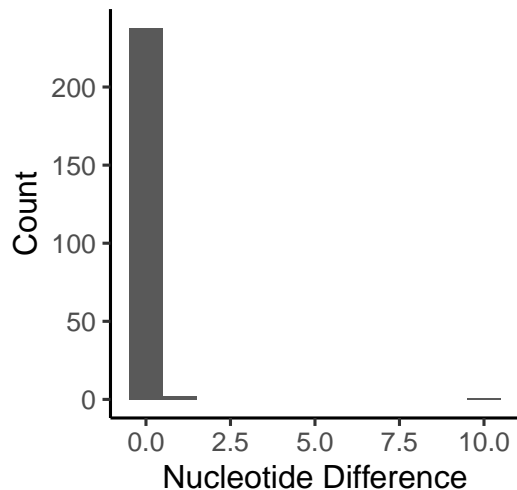
### TRBV5-5\*ap01

303 sequences assigned  
301 (99.3%) exact matches, in which:  
299 unique CDR3  
13 unique J



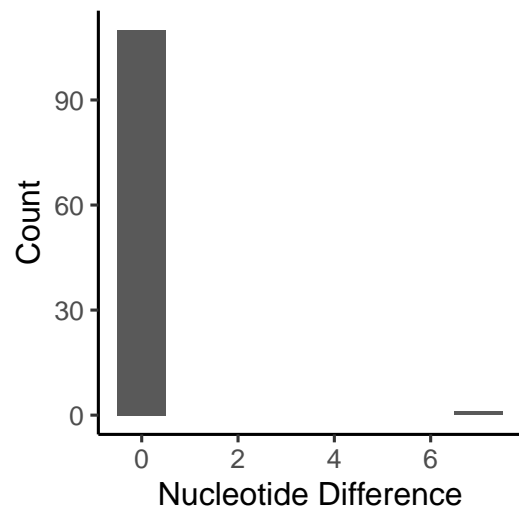
### TRBV5-8\*ap01

241 sequences assigned  
238 (98.8%) exact matches, in which:  
238 unique CDR3  
13 unique J



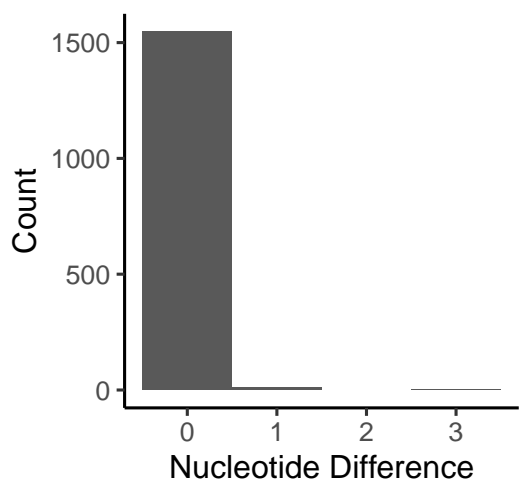
### TRBV6-7\*ap01

111 sequences assigned  
110 (99.1%) exact matches, in which:  
110 unique CDR3  
13 unique J



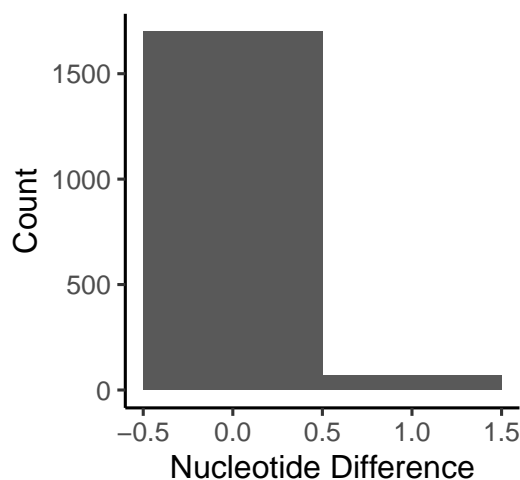
### TRBV5-6\*ap01

1558 sequences assigned  
1547 (99.3%) exact matches, in which:  
1530 unique CDR3  
13 unique J



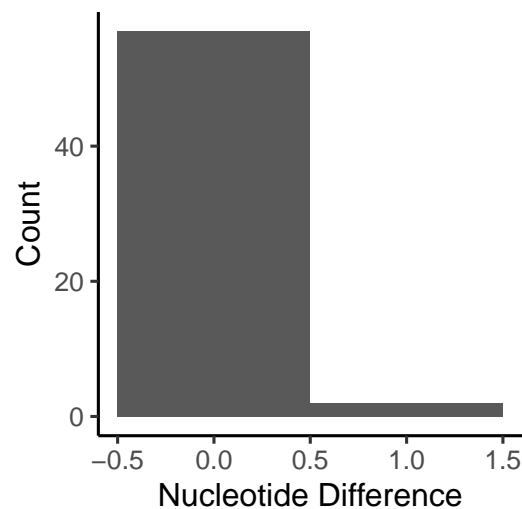
### TRBV6-1\*ap01

1770 sequences assigned  
1699 (96%) exact matches, in which:  
1689 unique CDR3  
13 unique J



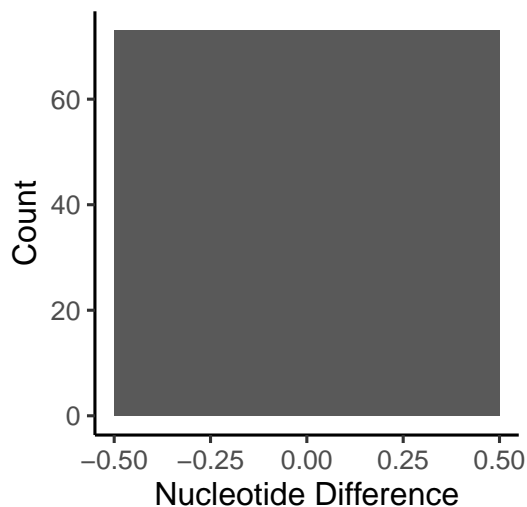
### TRBV6-8\*ap01

59 sequences assigned  
57 (96.6%) exact matches, in which:  
57 unique CDR3  
11 unique J



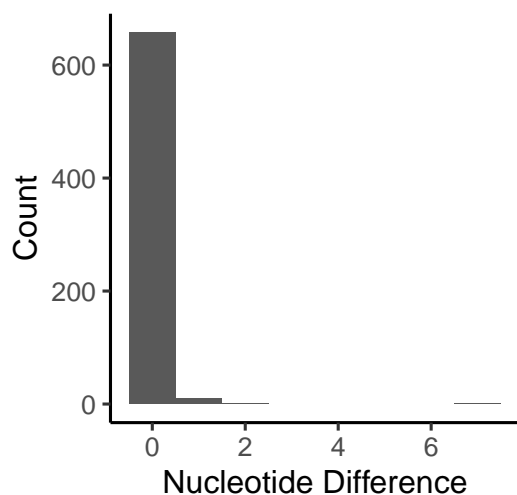
### TRBV5-7\*ap01

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



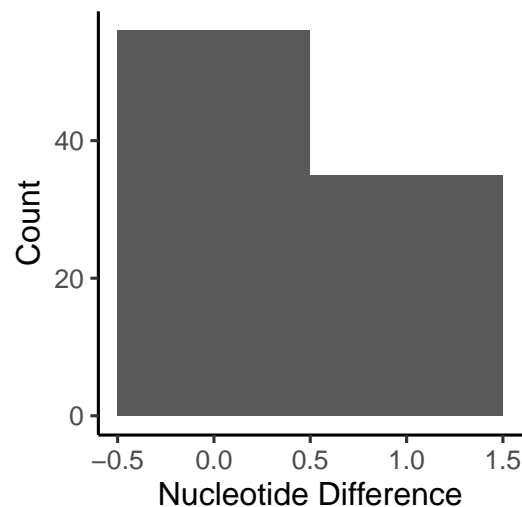
### TRBV6-4\*ap01

669 sequences assigned  
658 (98.4%) exact matches, in which:  
657 unique CDR3  
13 unique J



### TRBV6-9\*ap01

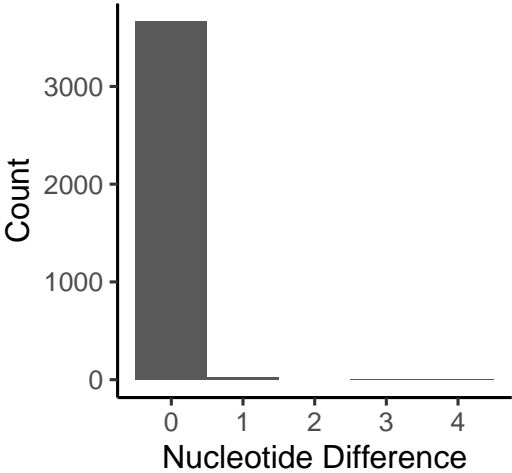
91 sequences assigned  
56 (61.5%) exact matches, in which:  
54 unique CDR3  
13 unique J





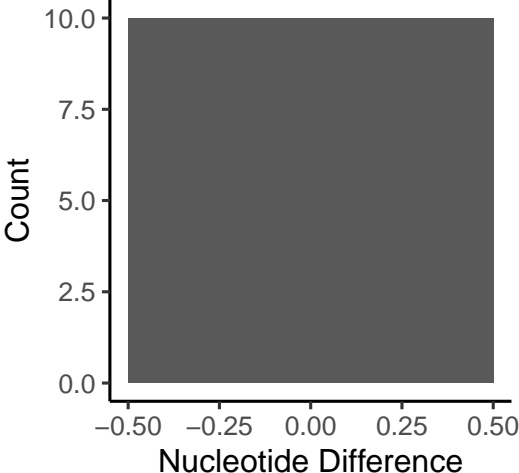
TRBV6-23\*ap01

3696 sequences assigned  
3665 (99.2%) exact matches, in which:  
3642 unique CDR3  
13 unique J



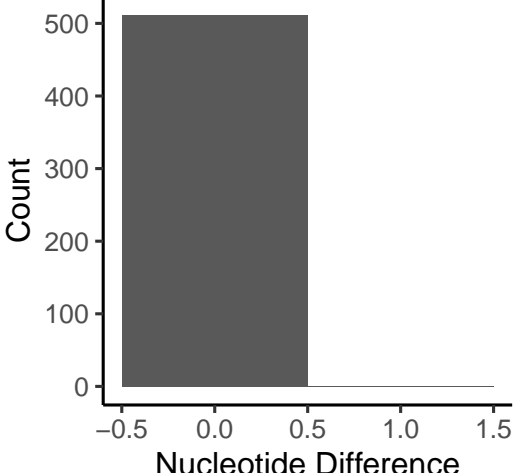
TRBV7-1\*ap01\_G291C\_

10 sequences assigned  
10 (100%) exact matches, in which:  
10 unique CDR3  
6 unique J



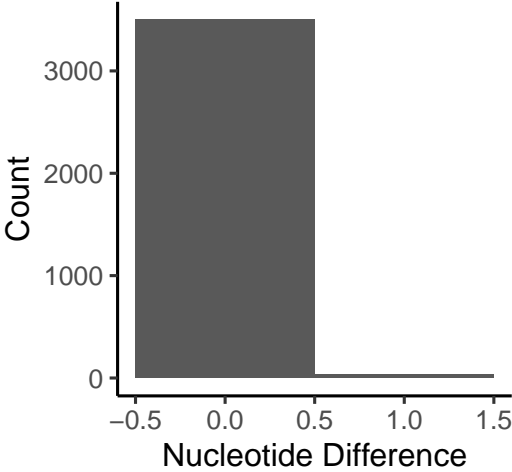
TRBV7-3\*ap01

513 sequences assigned  
512 (99.8%) exact matches, in which:  
511 unique CDR3  
13 unique J



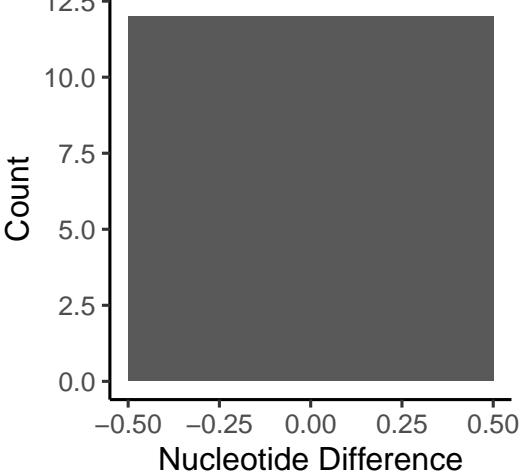
TRBV6-56\*ap01

3538 sequences assigned  
3500 (98.9%) exact matches, in which:  
3465 unique CDR3  
13 unique J



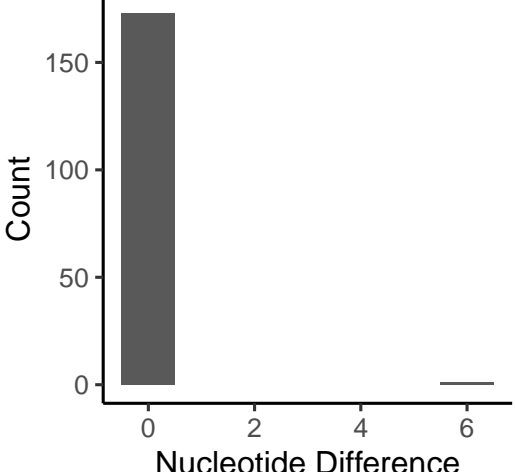
TRBV7-1\*ap01\_G291C\_

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



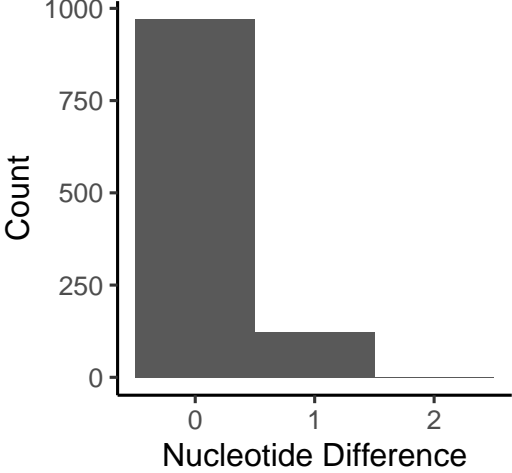
TRBV7-3\*ap03

174 sequences assigned  
173 (99.4%) exact matches, in which:  
173 unique CDR3  
13 unique J



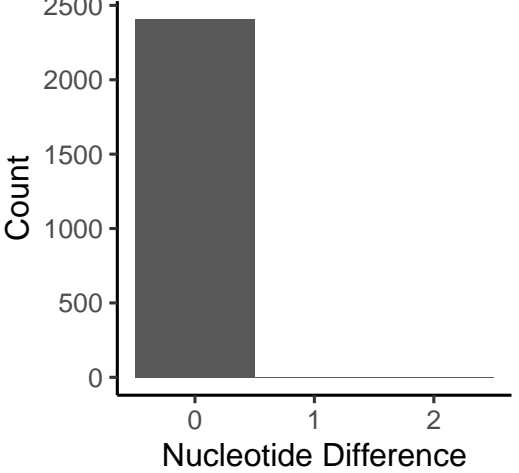
TRBV6-56\*ap02

1095 sequences assigned  
971 (88.7%) exact matches, in which:  
960 unique CDR3  
13 unique J



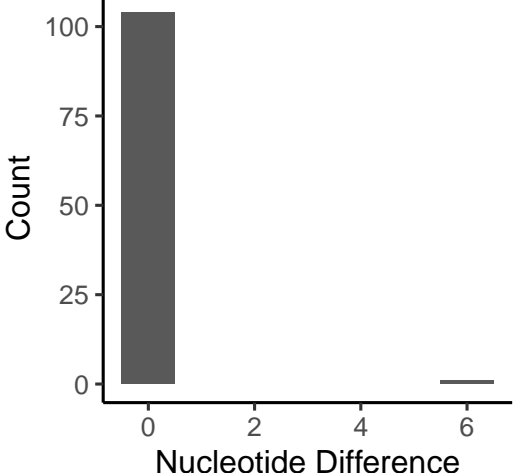
TRBV7-2\*ap01

2411 sequences assigned  
2408 (99.9%) exact matches, in which:  
2394 unique CDR3  
13 unique J



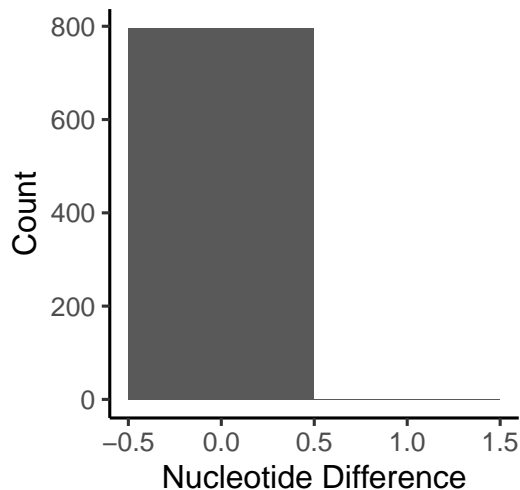
TRBV7-4\*ap01

105 sequences assigned  
104 (99%) exact matches, in which:  
104 unique CDR3  
11 unique J



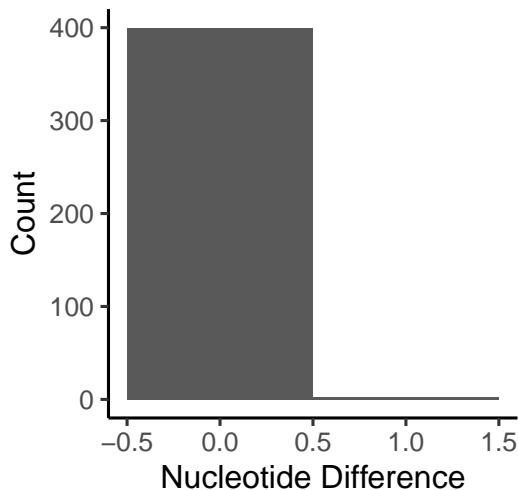
### TRBV7-6\*ap01

798 sequences assigned  
797 (99.9%) exact matches, in which:  
793 unique CDR3  
13 unique J



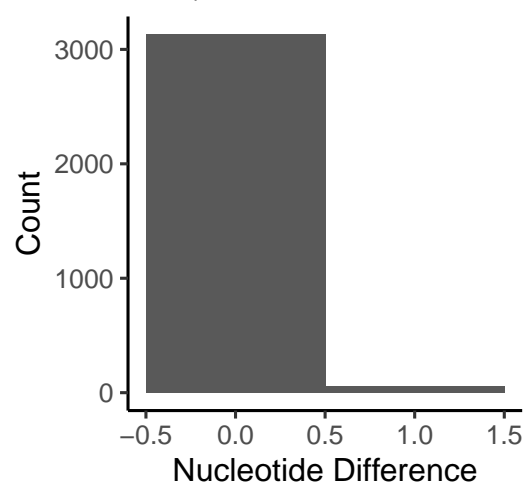
### TRBV7-8\*ap01

403 sequences assigned  
400 (99.3%) exact matches, in which:  
400 unique CDR3  
13 unique J



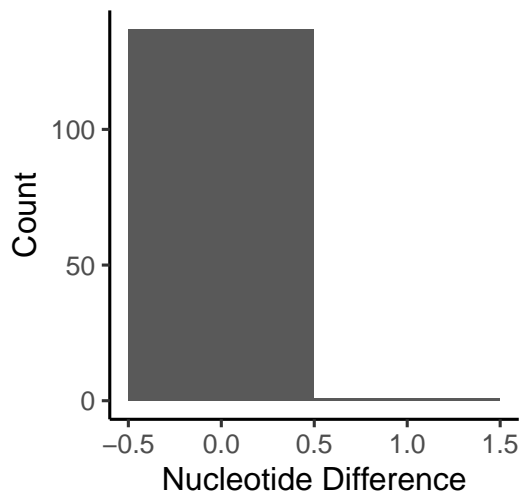
### TRBV29-1\*ap01

3186 sequences assigned  
3131 (98.3%) exact matches, in which:  
3067 unique CDR3  
13 unique J



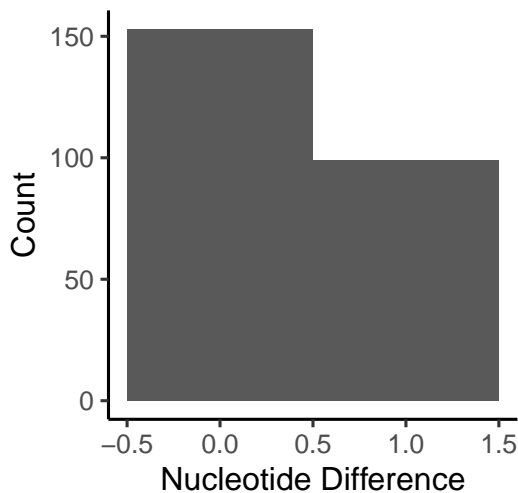
### TRBV7-7\*ap01

138 sequences assigned  
137 (99.3%) exact matches, in which:  
135 unique CDR3  
13 unique J



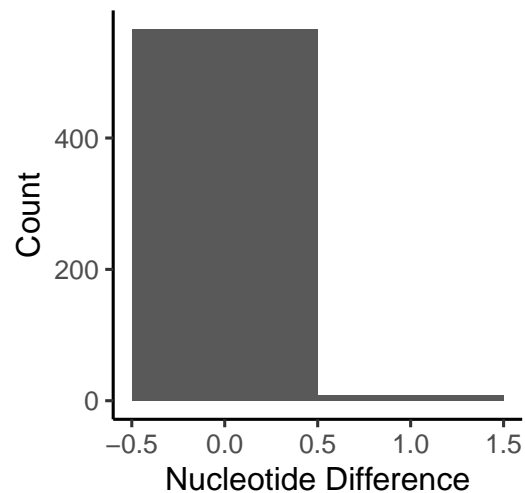
### TRBV7-8\*ap03

252 sequences assigned  
153 (60.7%) exact matches, in which:  
153 unique CDR3  
13 unique J



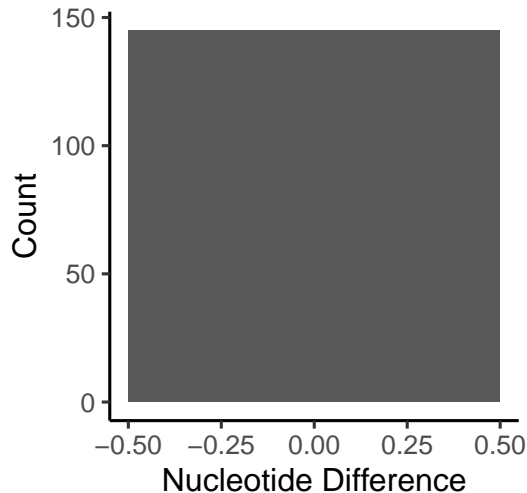
### TRBV29-1\*ap02

574 sequences assigned  
566 (98.6%) exact matches, in which:  
557 unique CDR3  
13 unique J



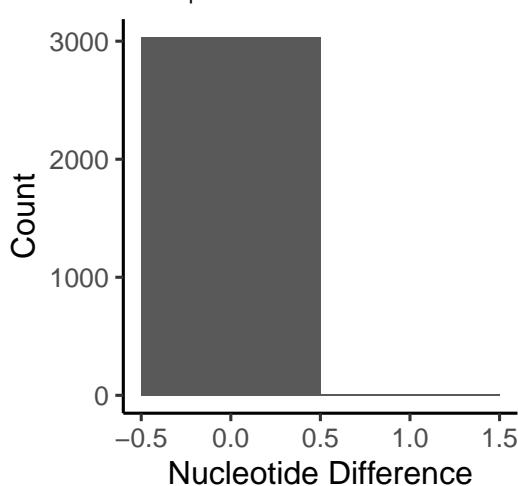
### TRBV7-7\*ap01\_C315T

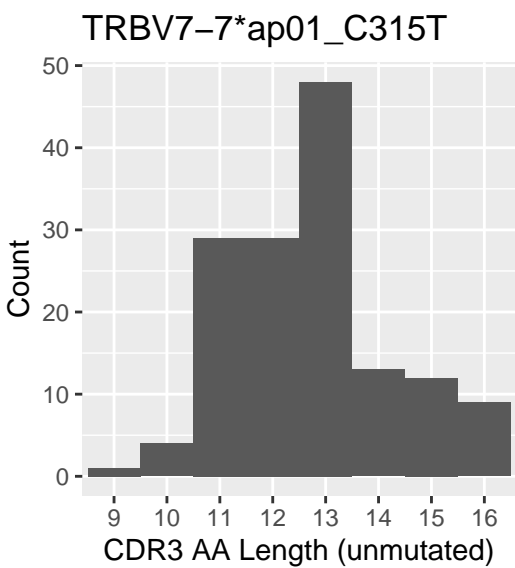
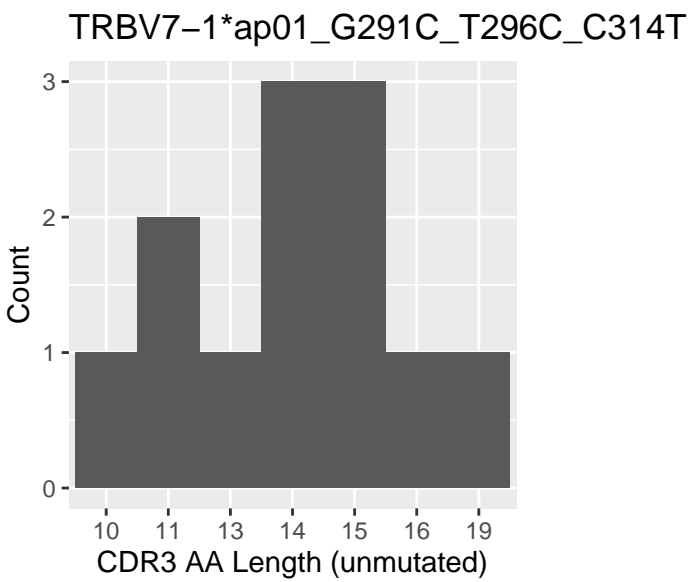
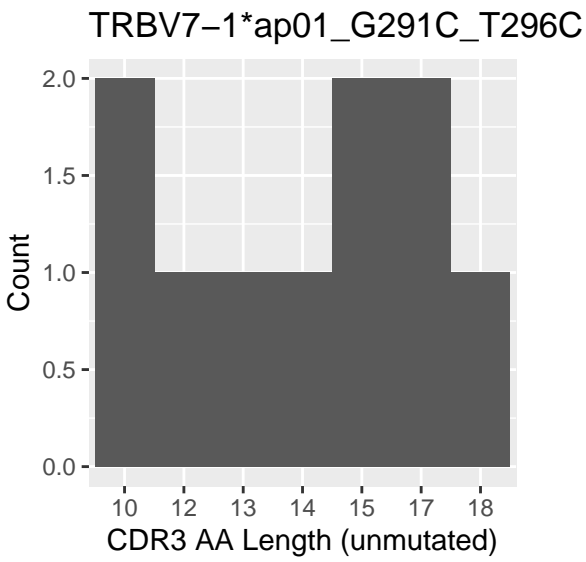
145 sequences assigned  
145 (100%) exact matches, in which:  
142 unique CDR3  
13 unique J



### TRBV7-9\*ap01

3047 sequences assigned  
3035 (99.6%) exact matches, in which:  
3012 unique CDR3  
13 unique J







[illegible]