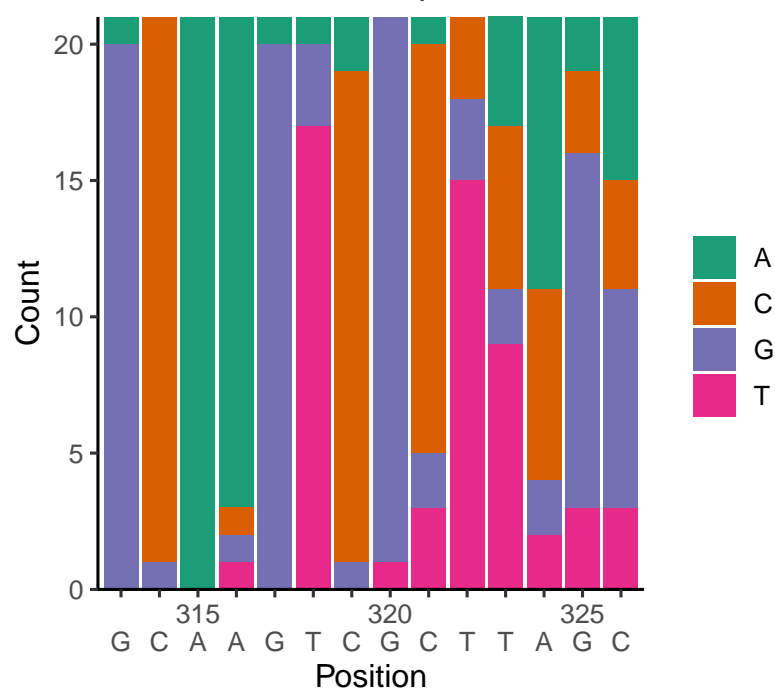
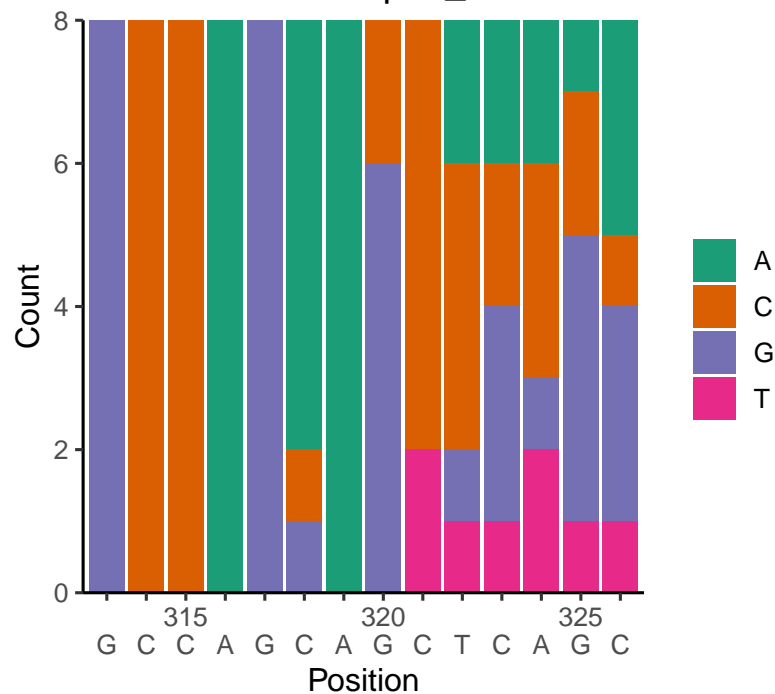


Gene TRBV12-2\*ap01\_G301A



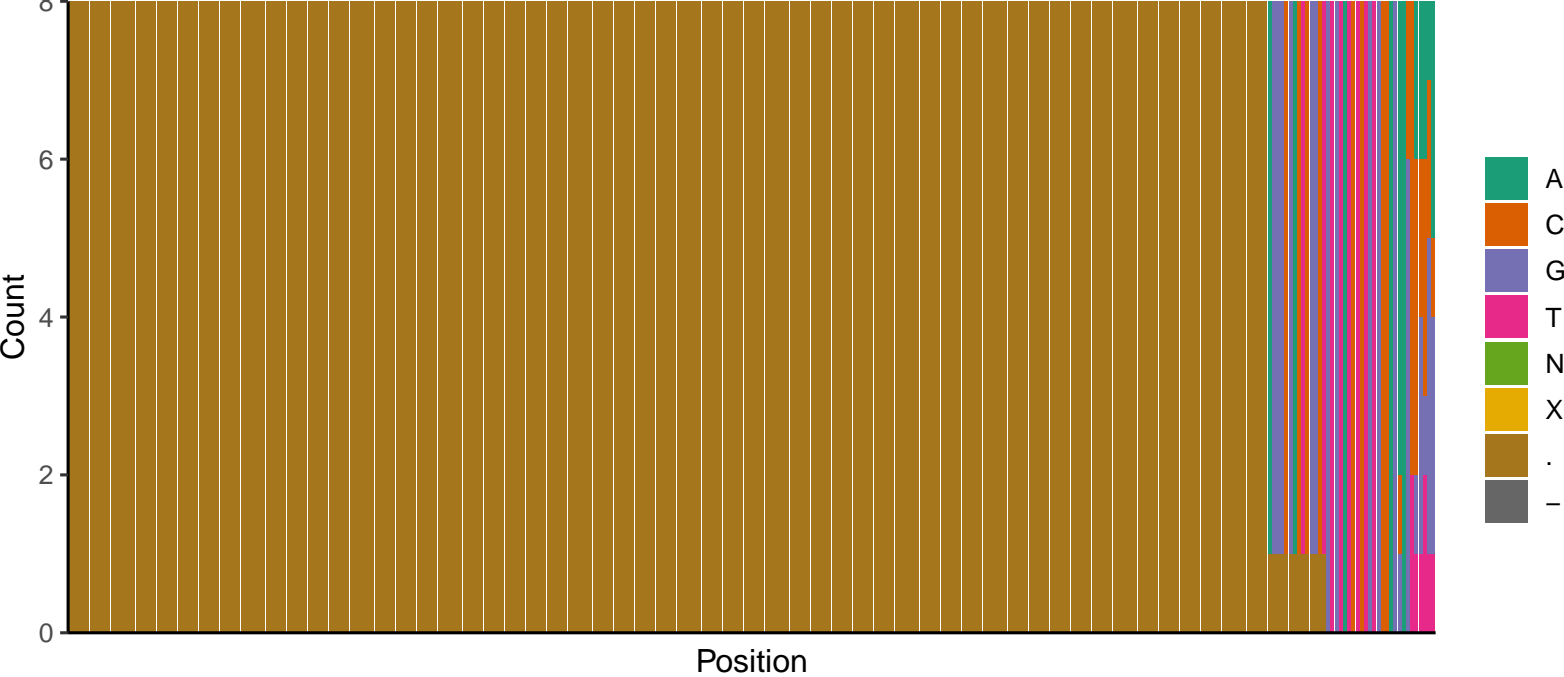
Gene TRBV7-1\*ap01\_T296C



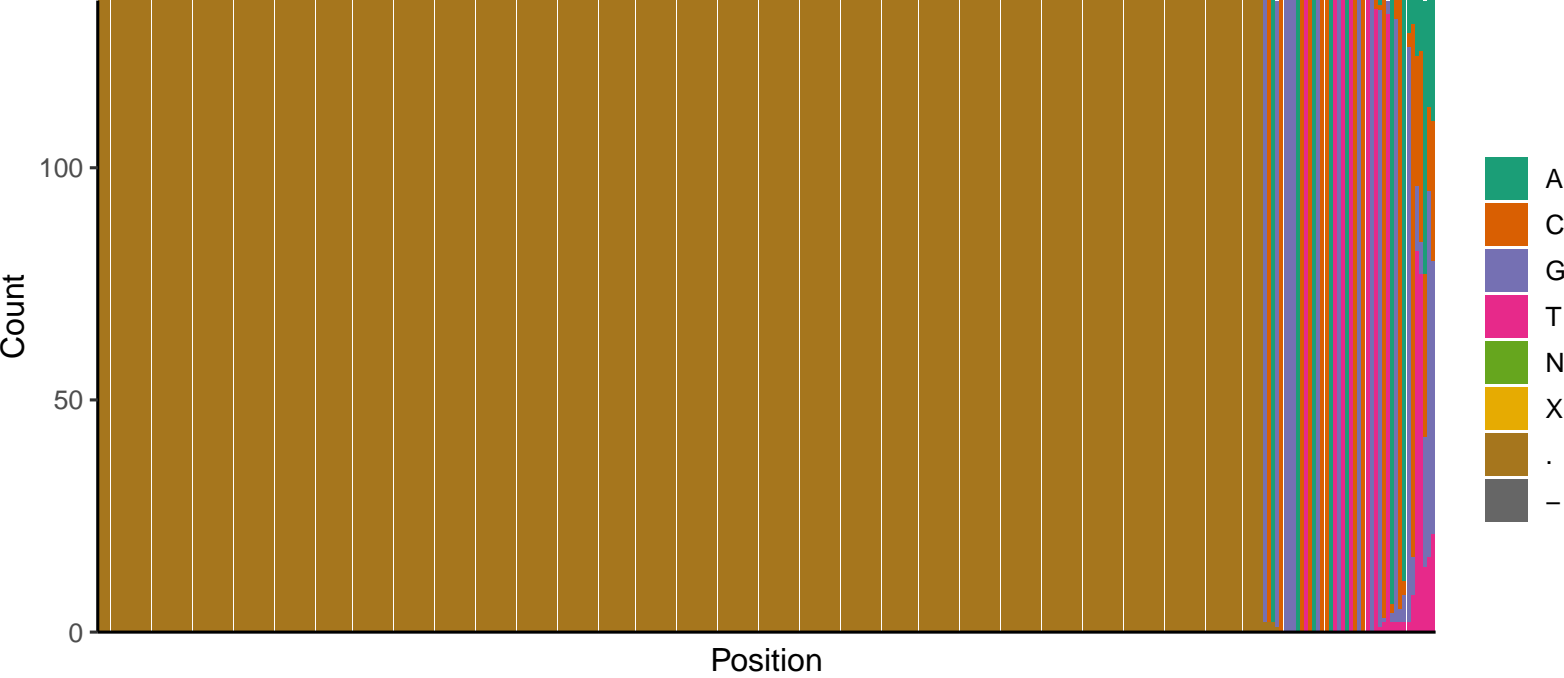
Gene TRBV12-2\*ap01\_G301A



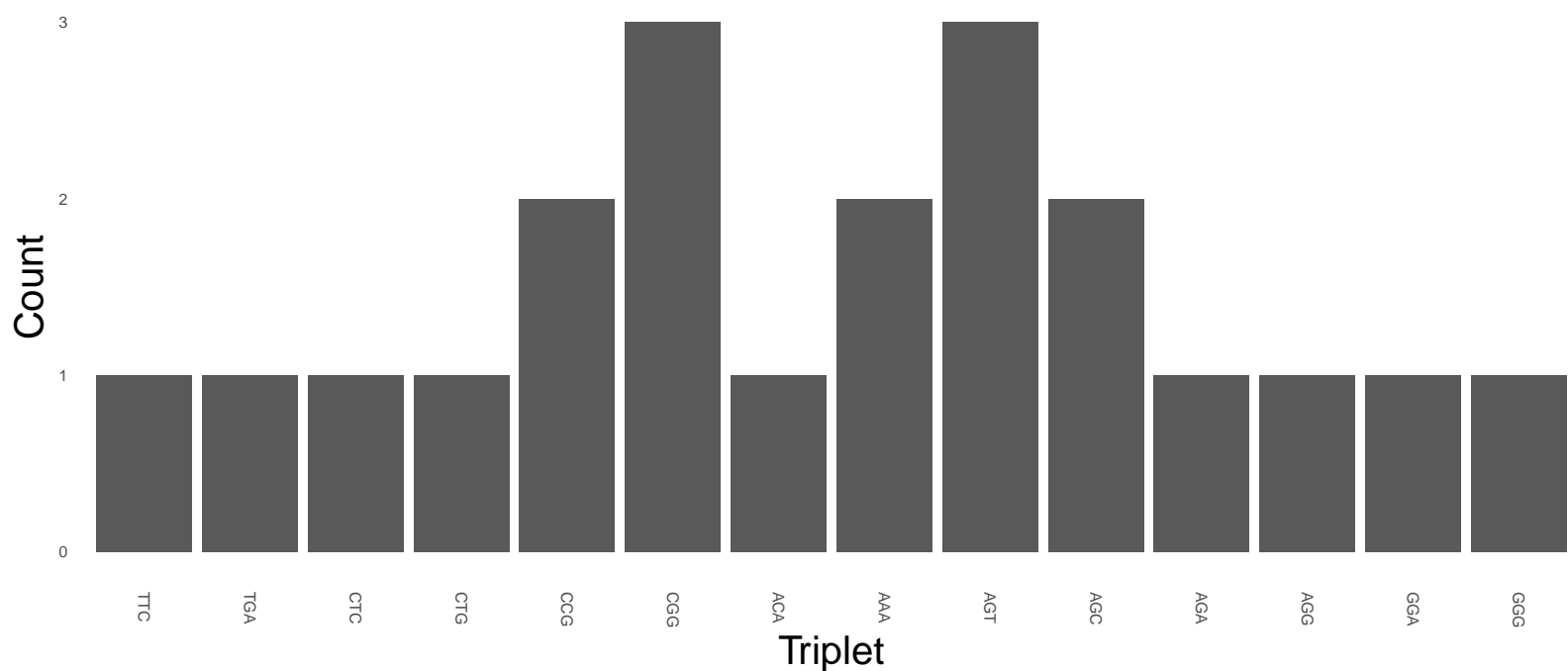
Gene TRBV7-1\*ap01\_T296C



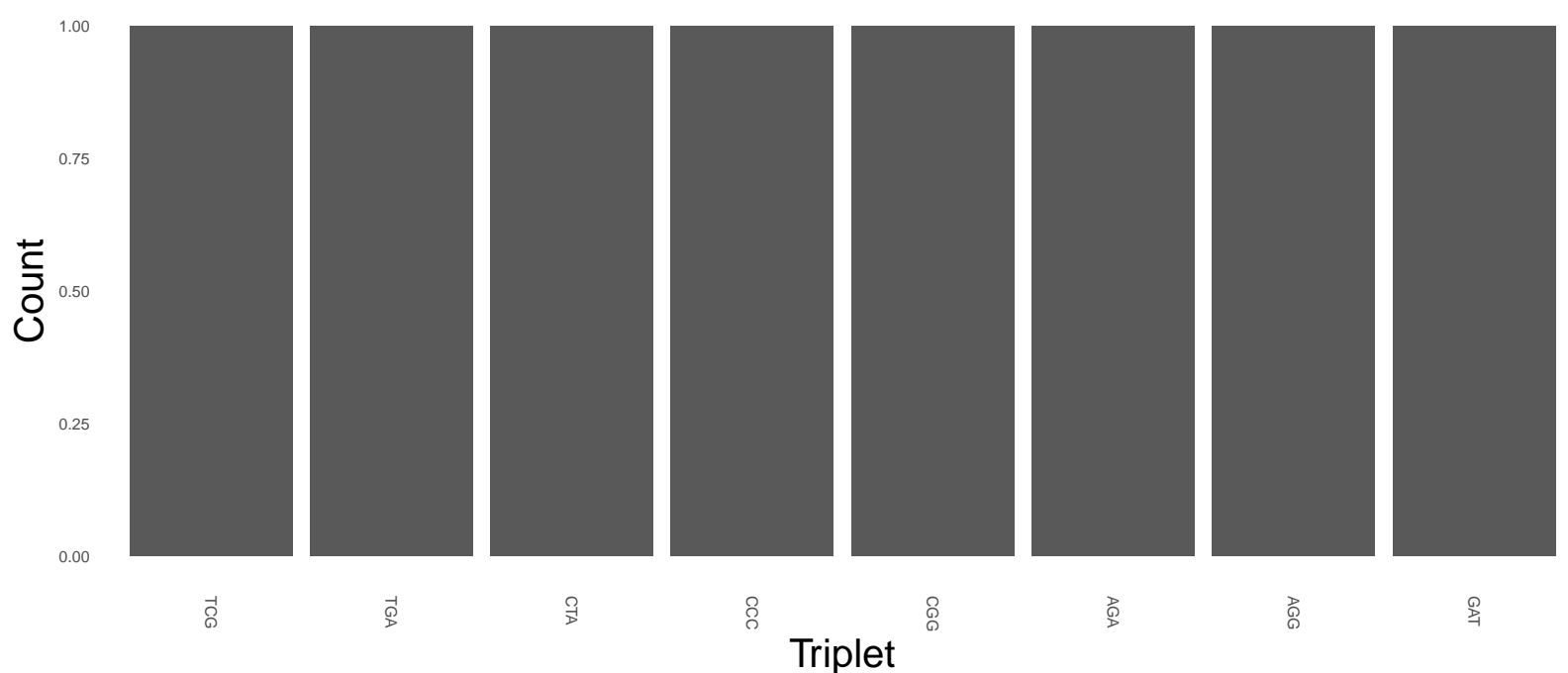
Gene TRBV7-7\*ap01\_C315T



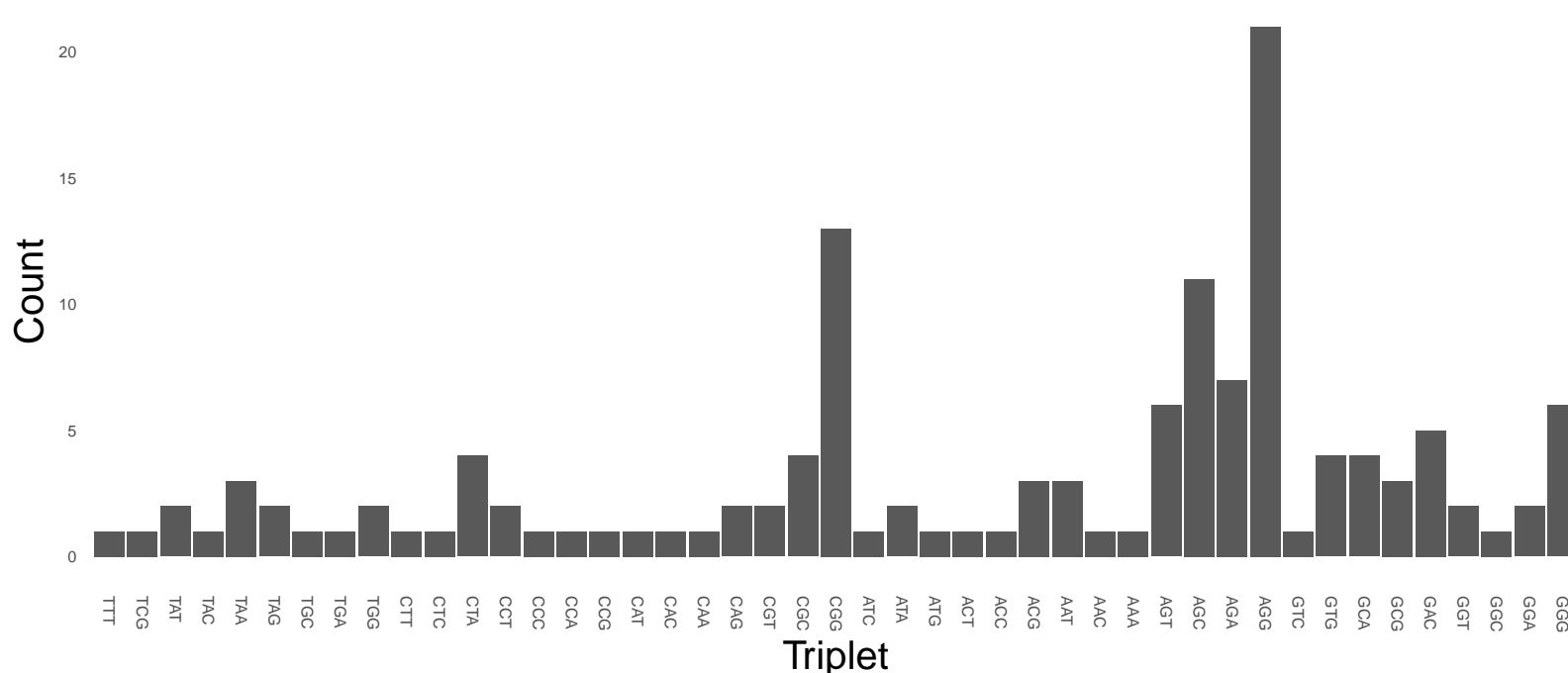
TRBV12-2\*ap01\_G301A- Final 3 nucleotides as a triplet



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

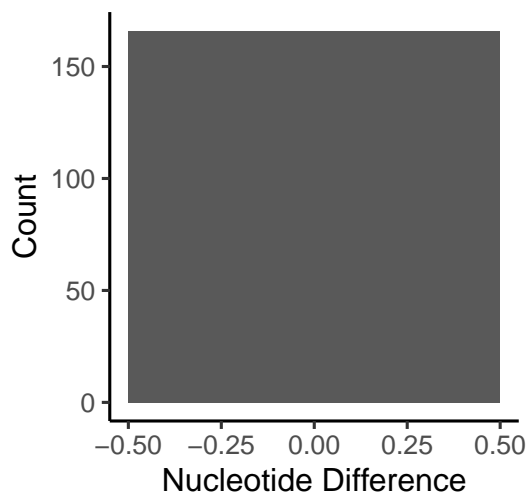


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



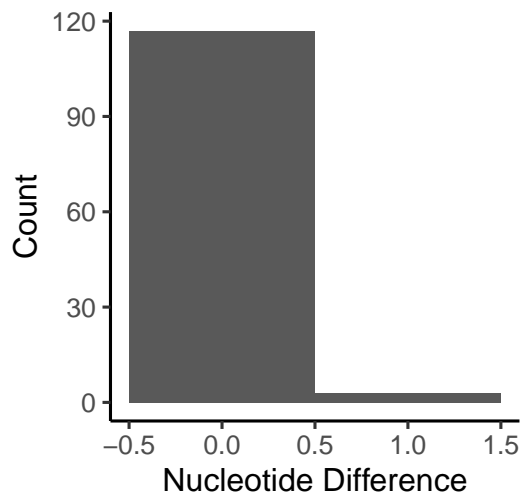
### TRBV10–1\*ap01

166 sequences assigned  
166 (100%) exact matches, in which:  
166 unique CDR3  
13 unique J



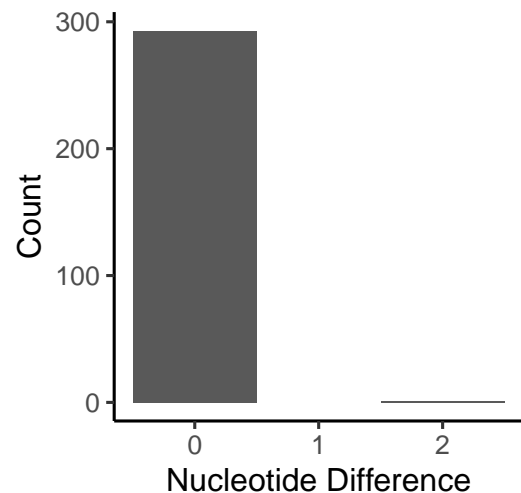
### TRBV10–2\*ap01

120 sequences assigned  
117 (97.5%) exact matches, in which:  
115 unique CDR3  
12 unique J



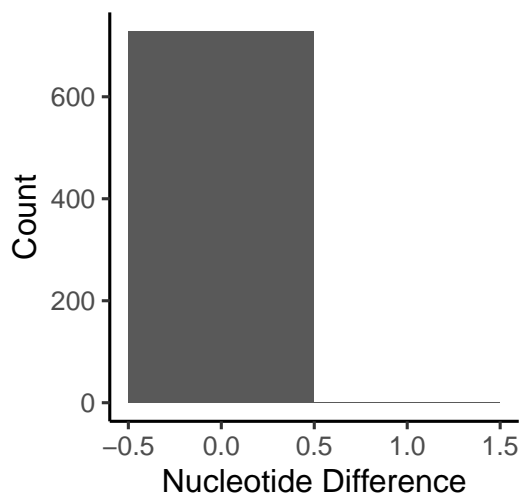
### TRBV13\*ap01

294 sequences assigned  
293 (99.7%) exact matches, in which:  
293 unique CDR3  
13 unique J



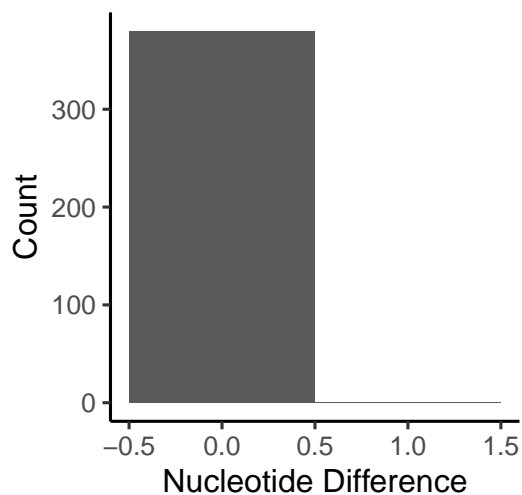
### TRBV20–1\*ap01

730 sequences assigned  
729 (99.9%) exact matches, in which:  
729 unique CDR3  
13 unique J



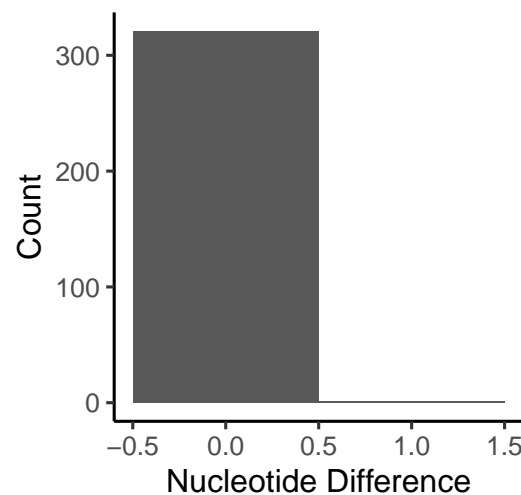
### TRBV10–3\*ap01

381 sequences assigned  
380 (99.7%) exact matches, in which:  
380 unique CDR3  
13 unique J



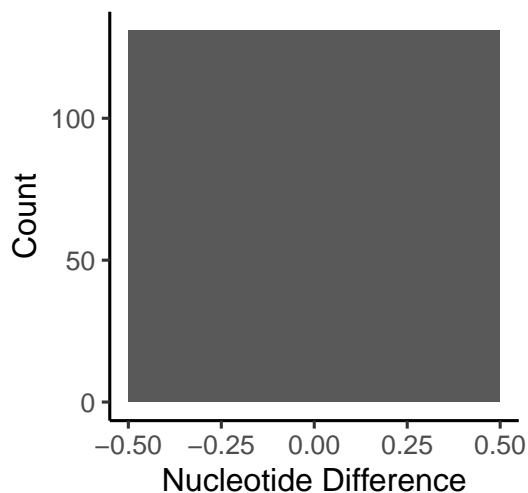
### TRBV14\*ap01

322 sequences assigned  
321 (99.7%) exact matches, in which:  
321 unique CDR3  
13 unique J



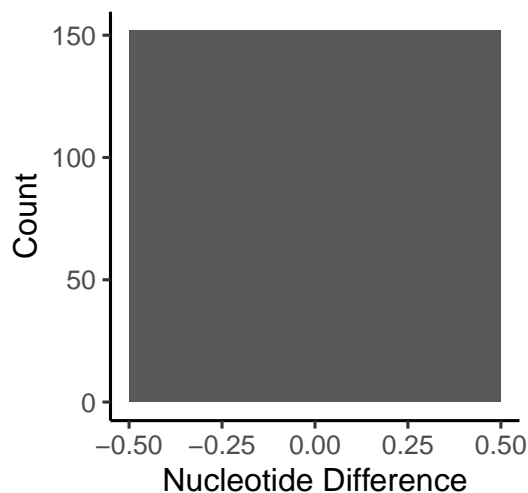
### TRBV20–1\*ap02

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



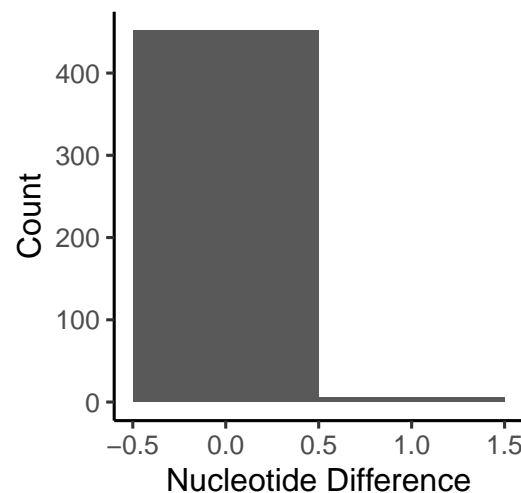
### TRBV1\*ap01

152 sequences assigned  
152 (100%) exact matches, in which:  
152 unique CDR3  
12 unique J



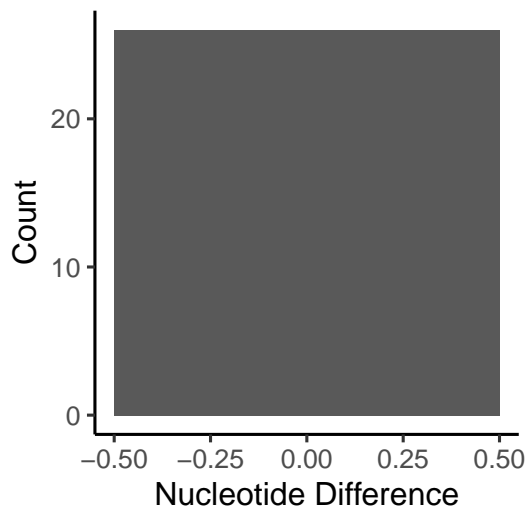
### TRBV15\*ap02

458 sequences assigned  
452 (98.7%) exact matches, in which:  
451 unique CDR3  
12 unique J



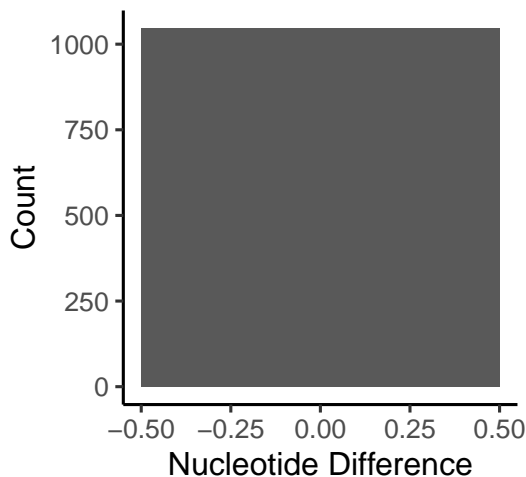
### TRBV16\*ap01

26 sequences assigned  
26 (100%) exact matches, in which:  
25 unique CDR3  
7 unique J



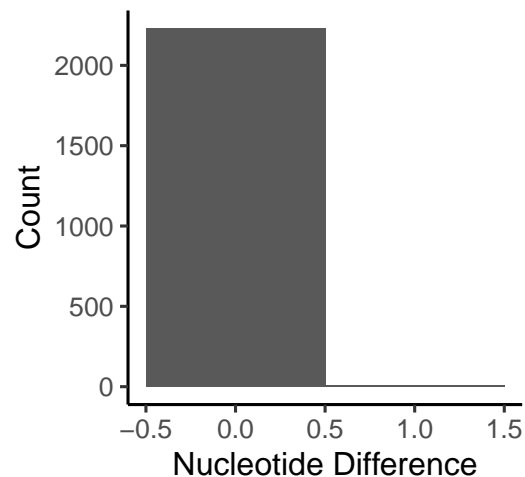
### TRBV2\*ap01

1046 sequences assigned  
1046 (100%) exact matches, in which:  
1046 unique CDR3  
13 unique J



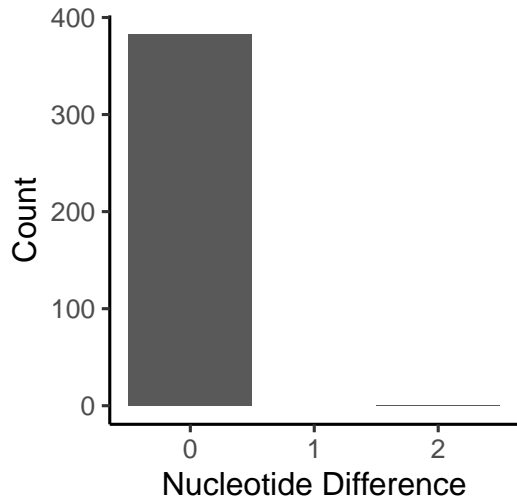
### TRBV30\*ap01

2242 sequences assigned  
2230 (99.5%) exact matches, in which:  
2228 unique CDR3  
13 unique J



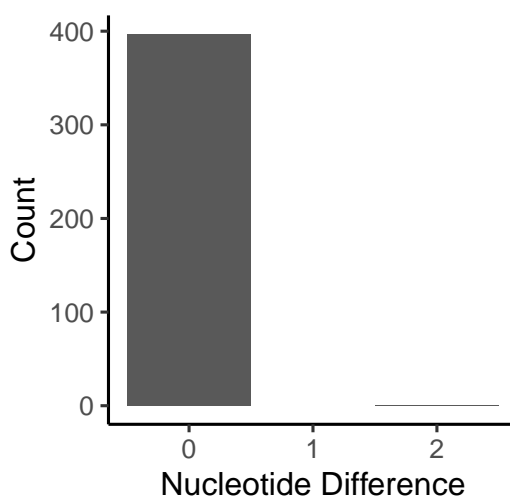
### TRBV18\*ap01

384 sequences assigned  
383 (99.7%) exact matches, in which:  
383 unique CDR3  
13 unique J



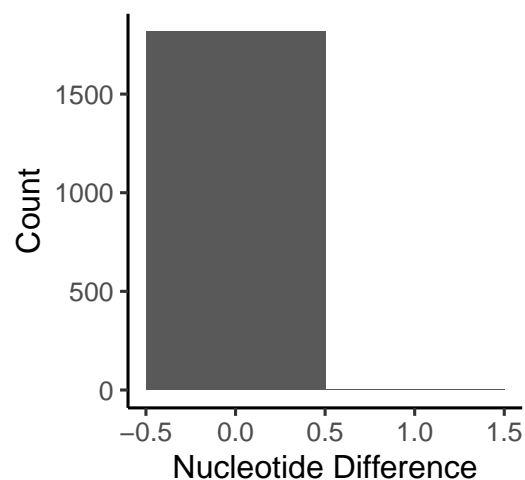
### TRBV27\*ap01

398 sequences assigned  
397 (99.7%) exact matches, in which:  
396 unique CDR3  
12 unique J



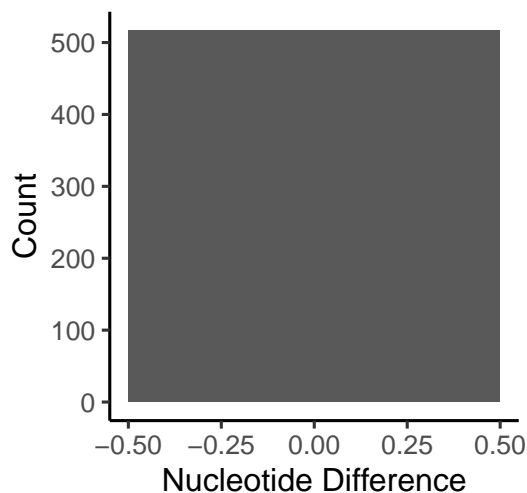
### TRBV30\*ap02

1819 sequences assigned  
1816 (99.8%) exact matches, in which:  
1811 unique CDR3  
13 unique J



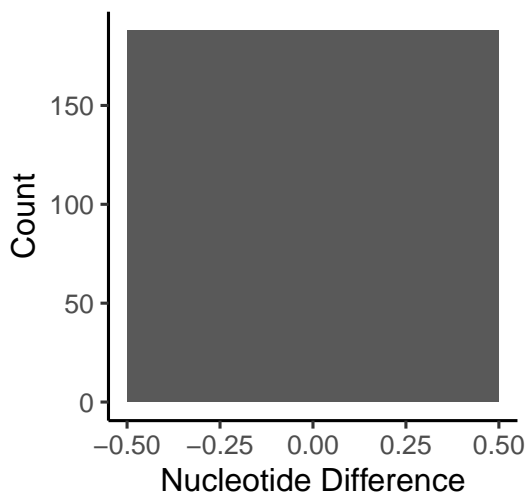
### TRBV19\*ap01

517 sequences assigned  
517 (100%) exact matches, in which:  
517 unique CDR3  
13 unique J



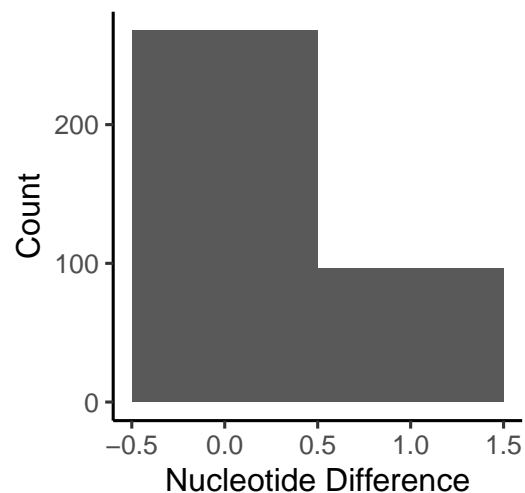
### TRBV28\*ap01

188 sequences assigned  
188 (100%) exact matches, in which:  
188 unique CDR3  
13 unique J



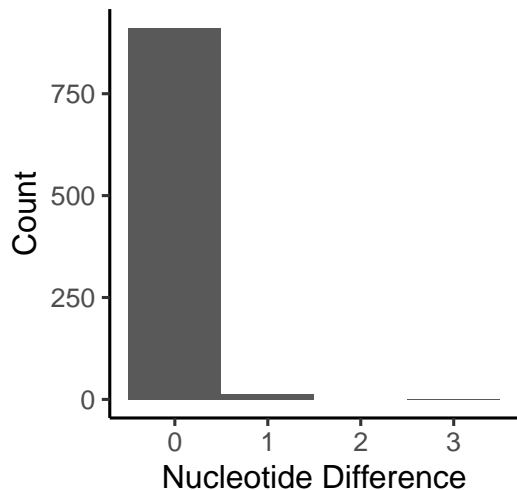
### TRBV30\*ap03

364 sequences assigned  
268 (73.6%) exact matches, in which:  
268 unique CDR3  
13 unique J



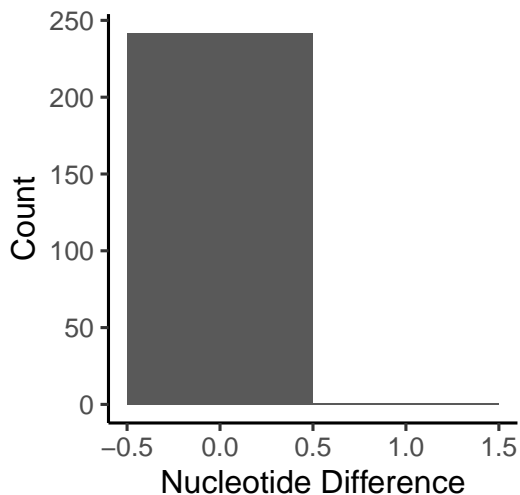
### TRBV9\*ap01

927 sequences assigned  
912 (98.4%) exact matches, in which:  
912 unique CDR3  
13 unique J



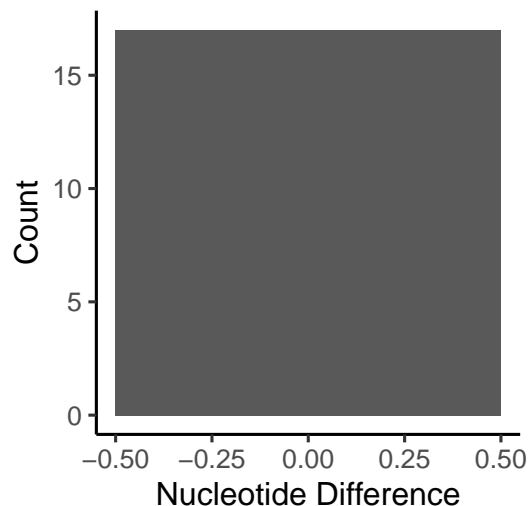
### TRBV11-2\*ap01

243 sequences assigned  
242 (99.6%) exact matches, in which:  
241 unique CDR3  
13 unique J



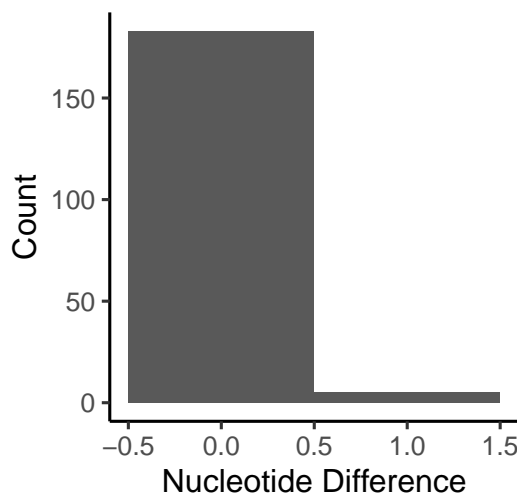
### TRBV12-2\*ap01

17 sequences assigned  
17 (100%) exact matches, in which:  
17 unique CDR3  
6 unique J



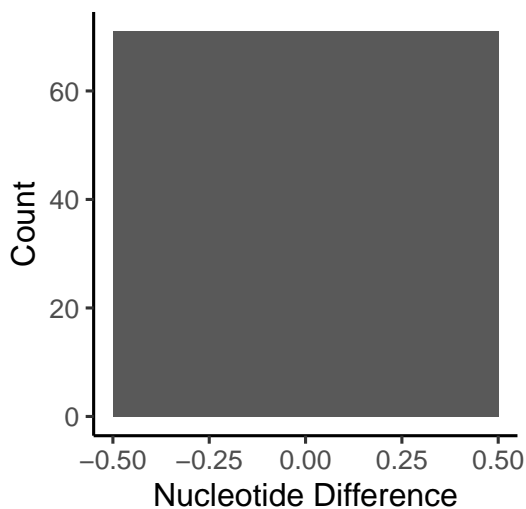
### TRBV21-1\*ap01

188 sequences assigned  
183 (97.3%) exact matches, in which:  
183 unique CDR3  
12 unique J



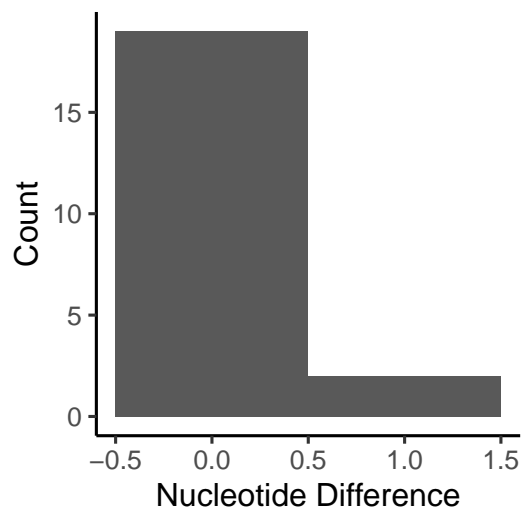
### TRBV11-3\*ap01

71 sequences assigned  
71 (100%) exact matches, in which:  
71 unique CDR3  
11 unique J



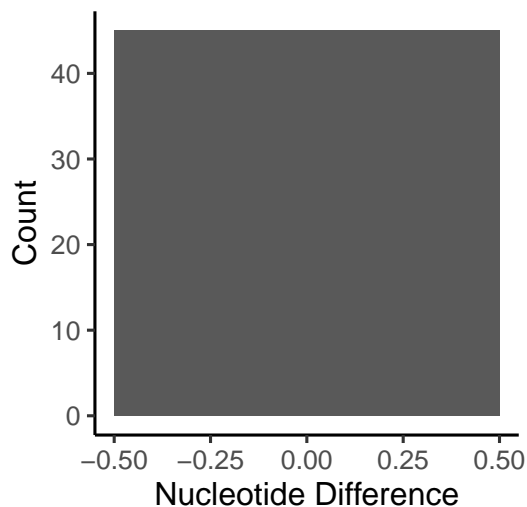
### TRBV12-2\*ap01\_G301A

21 sequences assigned  
19 (90.5%) exact matches, in which:  
19 unique CDR3  
8 unique J



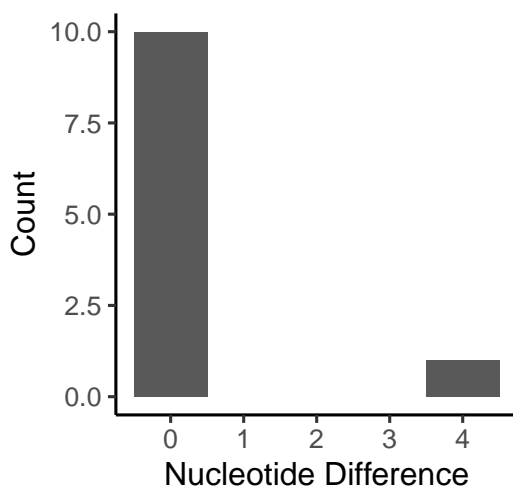
### TRBV11-1\*ap01

45 sequences assigned  
45 (100%) exact matches, in which:  
45 unique CDR3  
10 unique J



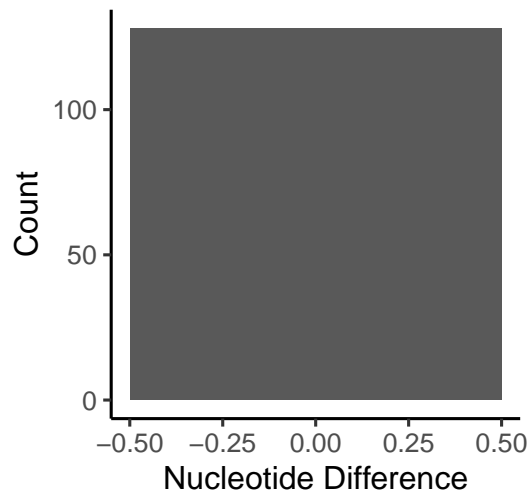
### TRBV12-1\*ap01

11 sequences assigned  
10 (90.9%) exact matches, in which:  
10 unique CDR3  
8 unique J



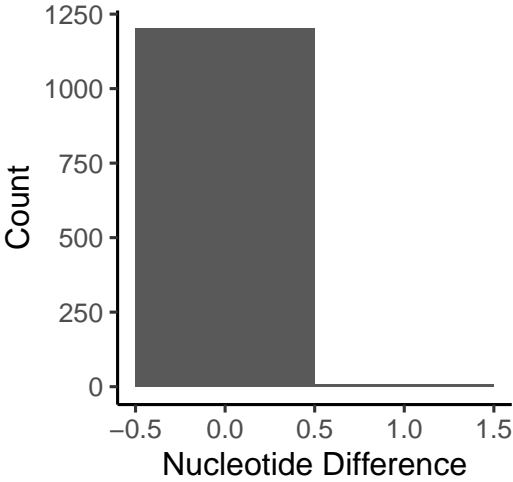
### TRBV12-5\*ap01

128 sequences assigned  
128 (100%) exact matches, in which:  
128 unique CDR3  
13 unique J



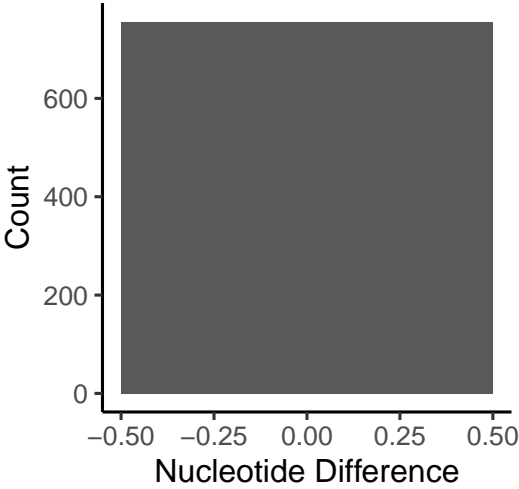
TRBV12-34\*ap01

1211 sequences assigned  
1202 (99.3%) exact matches, in which:  
1202 unique CDR3  
13 unique J



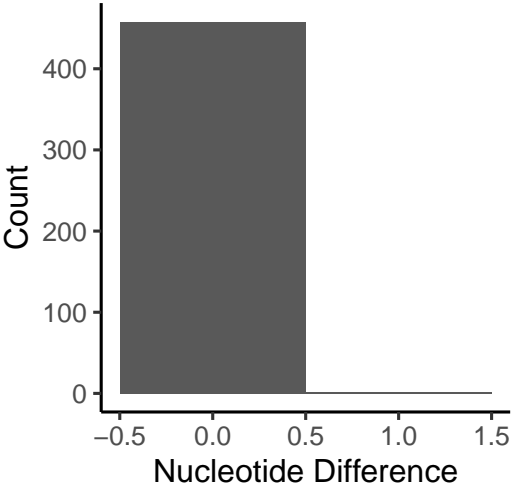
TRBV4-1\*ap01

756 sequences assigned  
756 (100%) exact matches, in which:  
756 unique CDR3  
13 unique J



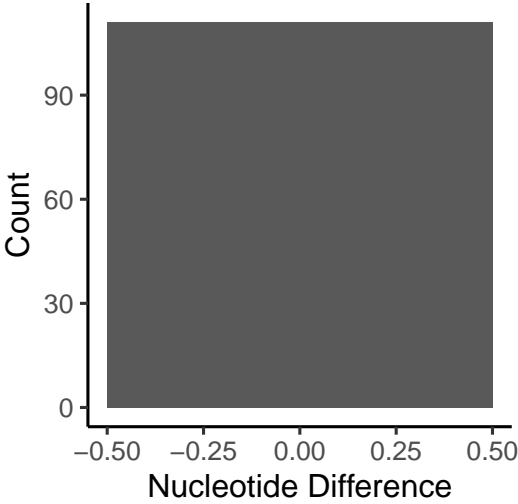
TRBV4-3\*ap01

460 sequences assigned  
458 (99.6%) exact matches, in which:  
457 unique CDR3  
13 unique J



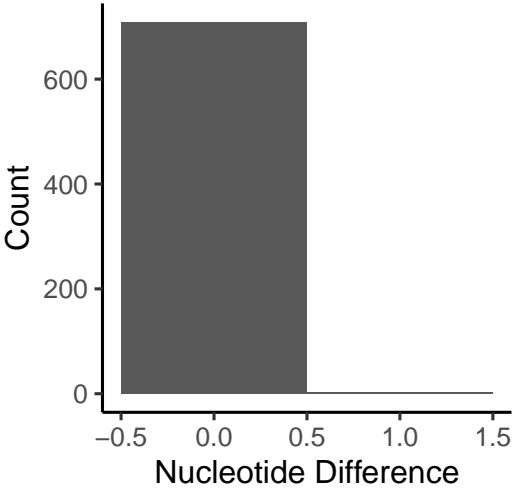
TRBV23-1\*ap01

111 sequences assigned  
111 (100%) exact matches, in which:  
111 unique CDR3  
12 unique J



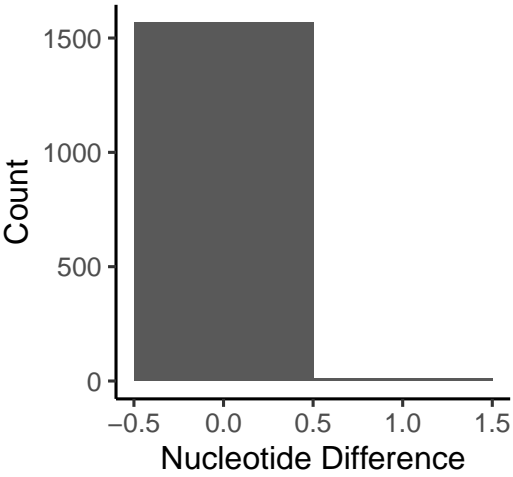
TRBV24-1\*ap01

712 sequences assigned  
709 (99.6%) exact matches, in which:  
705 unique CDR3  
13 unique J



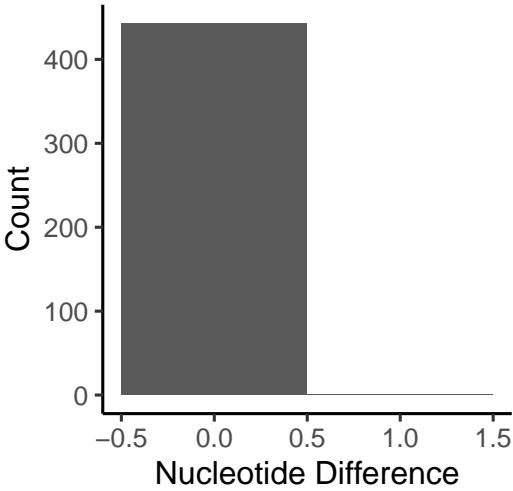
TRBV5-1\*ap01

1578 sequences assigned  
1567 (99.3%) exact matches, in which:  
1565 unique CDR3  
13 unique J



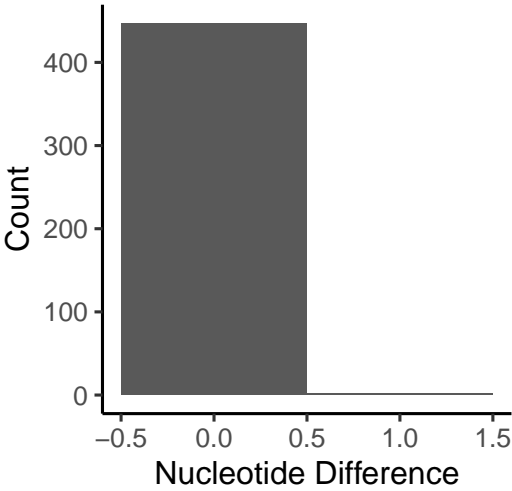
TRBV3-12\*ap01

444 sequences assigned  
443 (99.8%) exact matches, in which:  
443 unique CDR3  
13 unique J



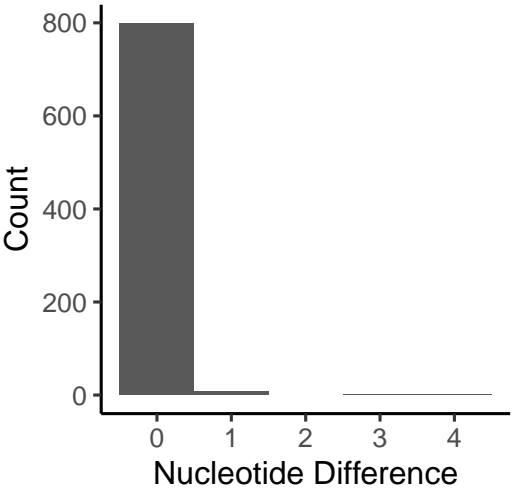
TRBV4-2\*ap01

449 sequences assigned  
447 (99.6%) exact matches, in which:  
446 unique CDR3  
13 unique J



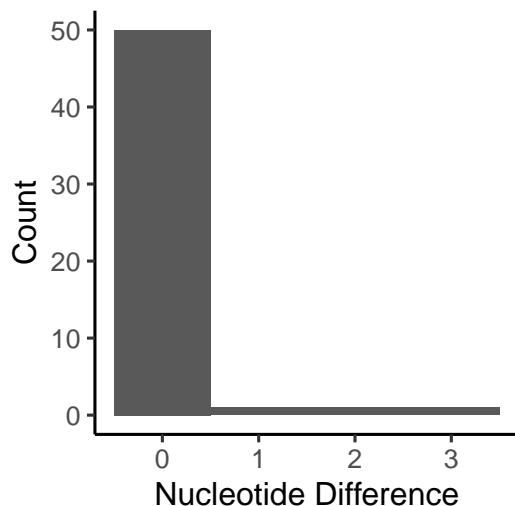
TRBV25-1\*ap01

809 sequences assigned  
799 (98.8%) exact matches, in which:  
799 unique CDR3  
13 unique J



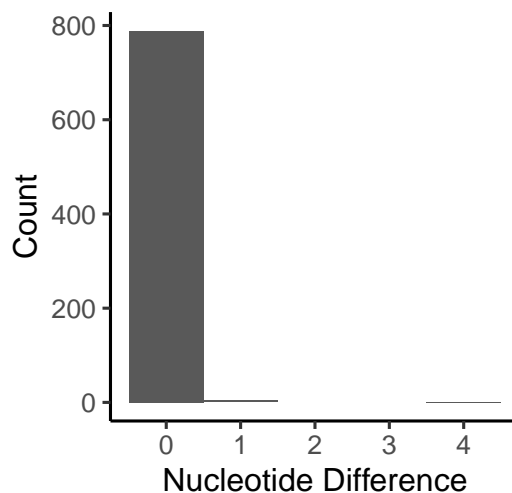
### TRBV5-3\*ap01

53 sequences assigned  
50 (94.3%) exact matches, in which:  
50 unique CDR3  
12 unique J



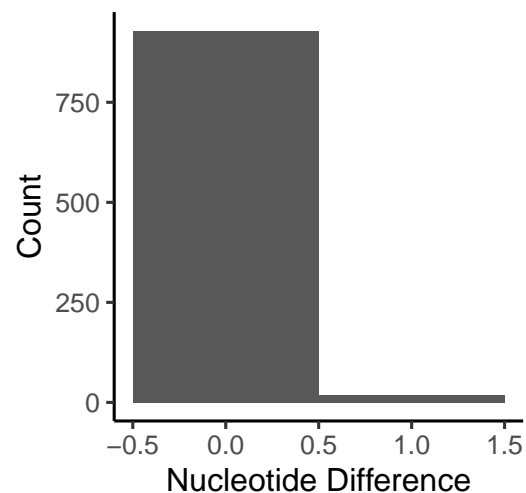
### TRBV5-6\*ap01

794 sequences assigned  
789 (99.4%) exact matches, in which:  
789 unique CDR3  
13 unique J



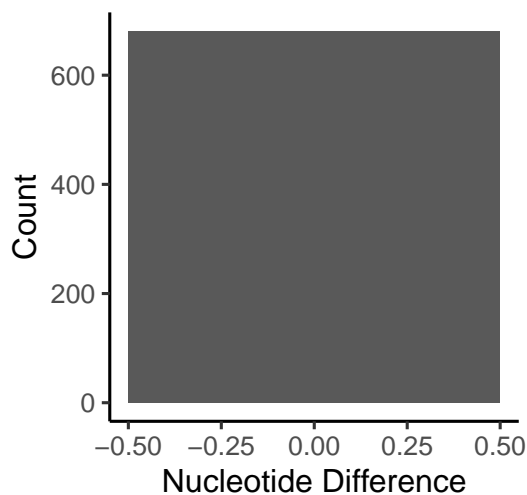
### TRBV6-1\*ap01

948 sequences assigned  
929 (98%) exact matches, in which:  
926 unique CDR3  
13 unique J



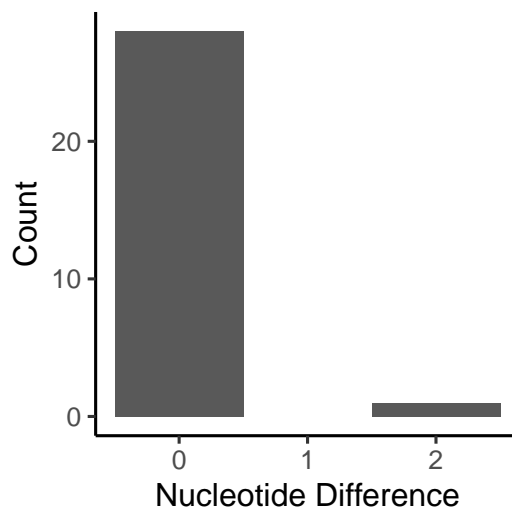
### TRBV5-4\*ap01

681 sequences assigned  
681 (100%) exact matches, in which:  
681 unique CDR3  
13 unique J



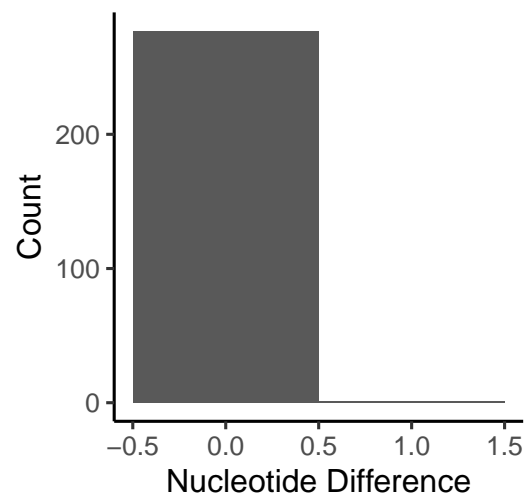
### TRBV5-7\*ap01

29 sequences assigned  
28 (96.6%) exact matches, in which:  
28 unique CDR3  
10 unique J



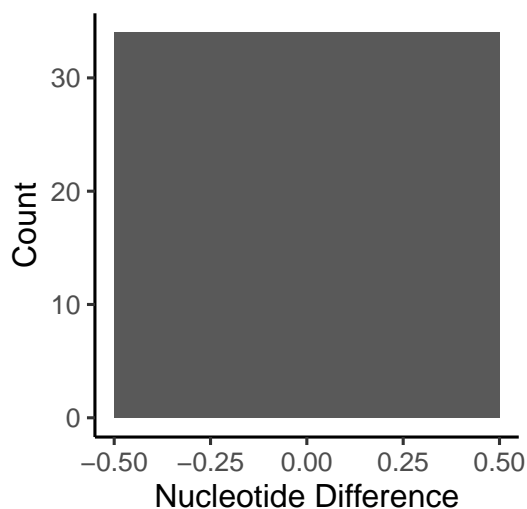
### TRBV6-4\*ap01

278 sequences assigned  
277 (99.6%) exact matches, in which:  
276 unique CDR3  
13 unique J



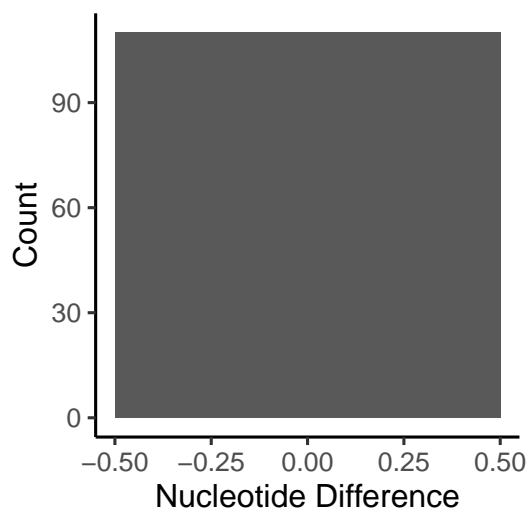
### TRBV5-5\*ap01

34 sequences assigned  
34 (100%) exact matches, in which:  
34 unique CDR3  
9 unique J



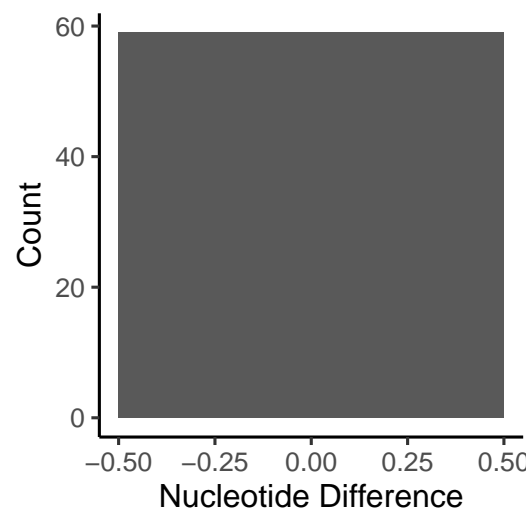
### TRBV5-8\*ap01

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



### TRBV6-7\*ap01

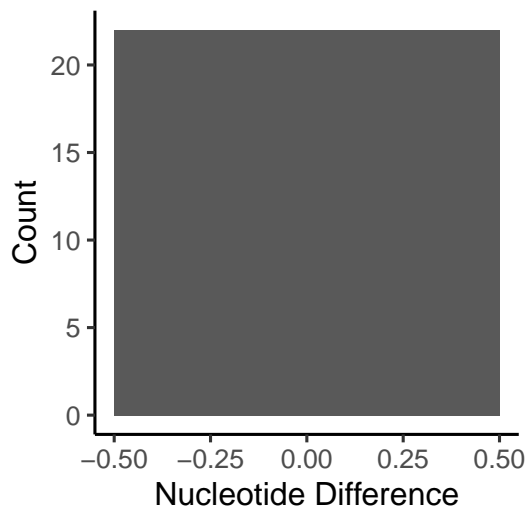
59 sequences assigned  
59 (100%) exact matches, in which:  
59 unique CDR3  
11 unique J





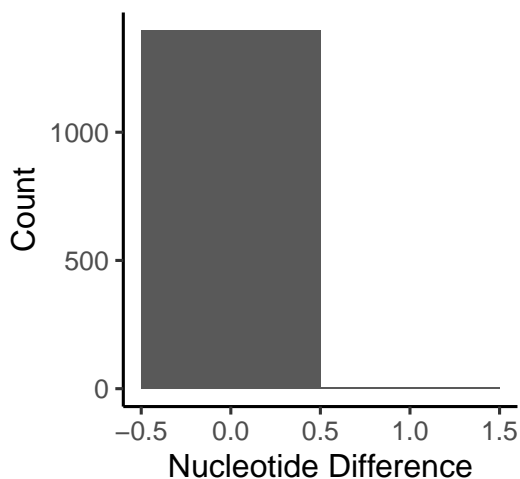
### TRBV6-8\*ap01

22 sequences assigned  
22 (100%) exact matches, in which:  
21 unique CDR3  
8 unique J



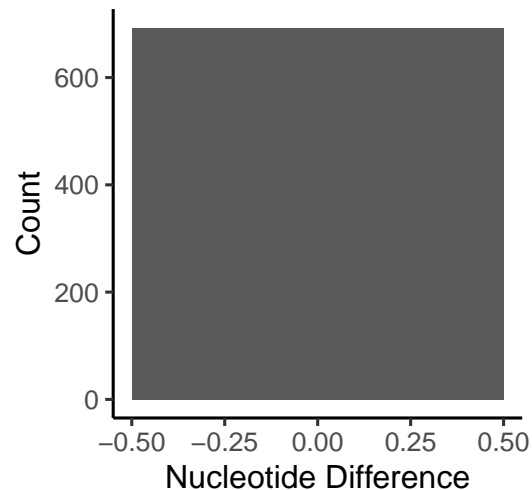
### TRBV6-56\*ap01

1401 sequences assigned  
1397 (99.7%) exact matches, in which:  
1393 unique CDR3  
13 unique J



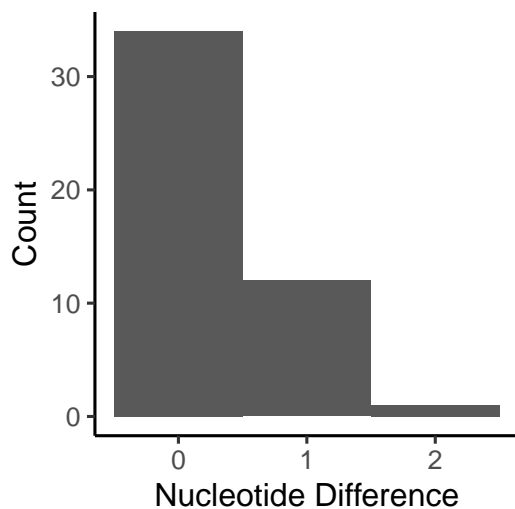
### TRBV7-2\*ap01

693 sequences assigned  
693 (100%) exact matches, in which:  
693 unique CDR3  
13 unique J



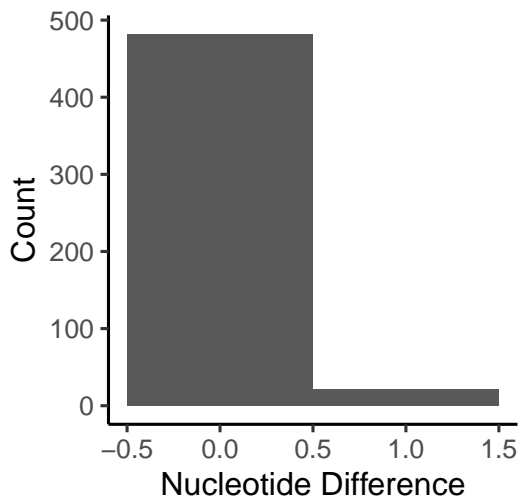
### TRBV6-9\*ap01

47 sequences assigned  
34 (72.3%) exact matches, in which:  
34 unique CDR3  
11 unique J



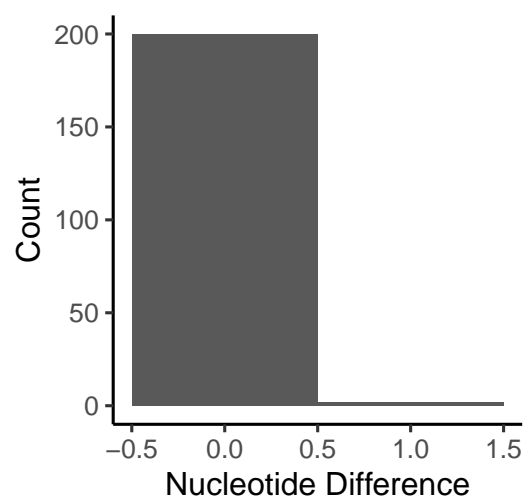
### TRBV6-56\*ap02

504 sequences assigned  
482 (95.6%) exact matches, in which:  
482 unique CDR3  
13 unique J



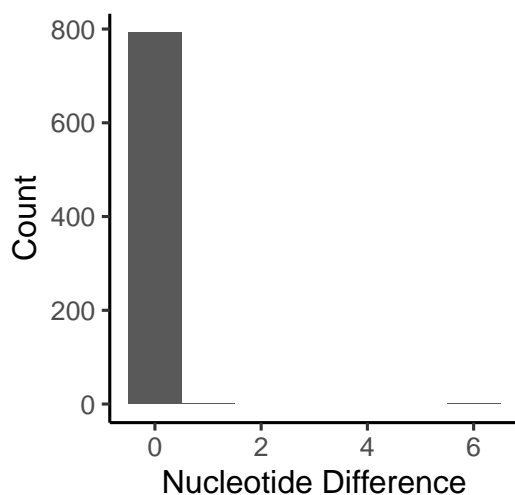
### TRBV7-3\*ap01

202 sequences assigned  
200 (99%) exact matches, in which:  
200 unique CDR3  
12 unique J



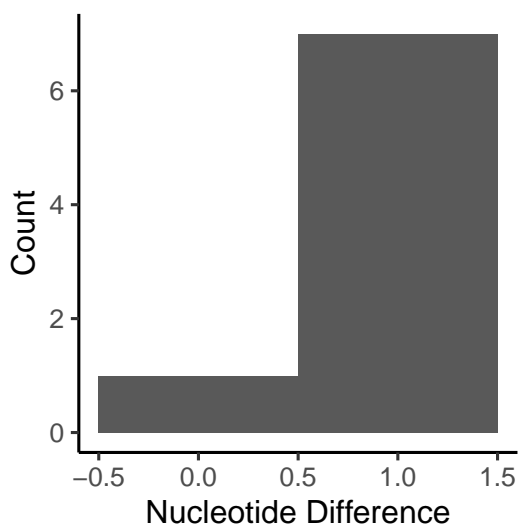
### TRBV6-23\*ap01

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



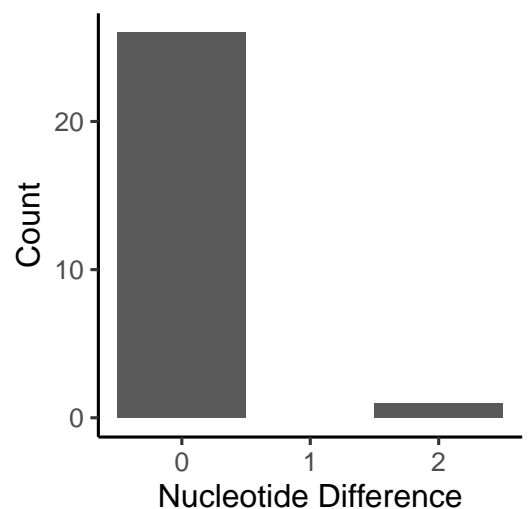
### TRBV7-1\*ap01\_T296C

8 sequences assigned  
1 (12.5%) exact matches, in which:  
1 unique CDR3  
1 unique J



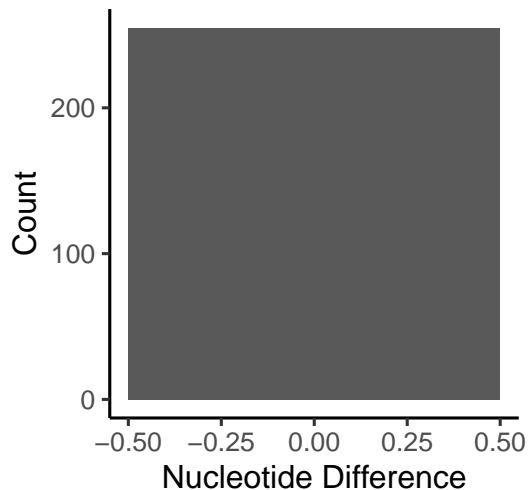
### TRBV7-4\*ap01

27 sequences assigned  
26 (96.3%) exact matches, in which:  
26 unique CDR3  
8 unique J



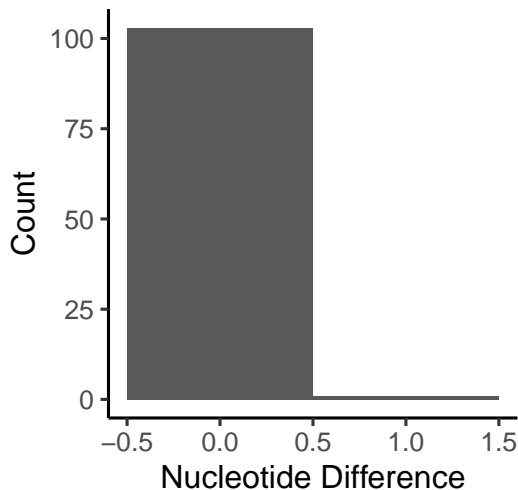
### TRBV7-6\*ap01

255 sequences assigned  
255 (100%) exact matches, in which:  
255 unique CDR3  
12 unique J



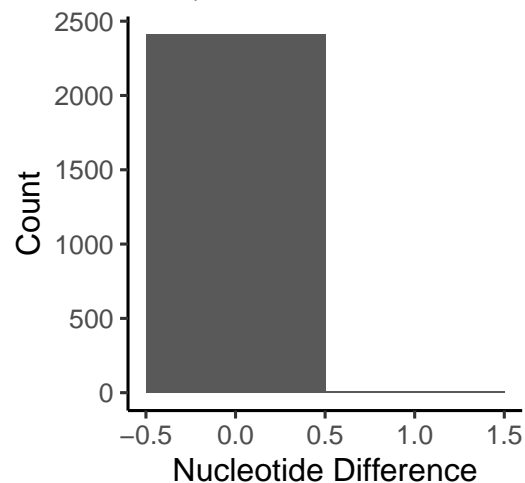
### TRBV7-8\*ap02

104 sequences assigned  
103 (99%) exact matches, in which:  
103 unique CDR3  
10 unique J



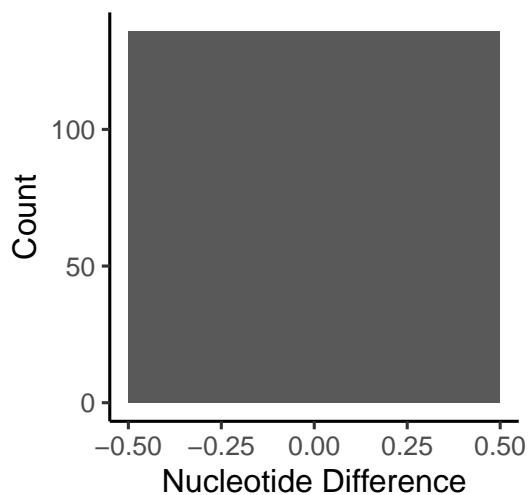
### TRBV29-1\*ap01

2419 sequences assigned  
2411 (99.7%) exact matches, in which:  
2403 unique CDR3  
13 unique J



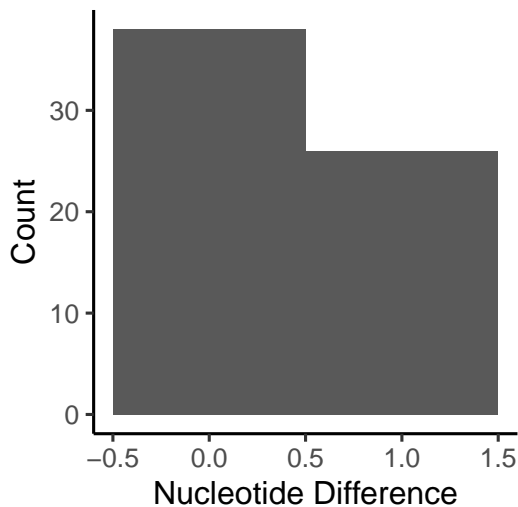
### TRBV7-7\*ap01\_C315T

136 sequences assigned  
136 (100%) exact matches, in which:  
136 unique CDR3  
13 unique J



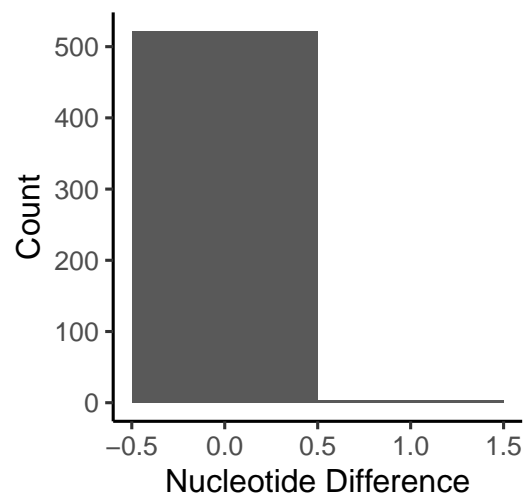
### TRBV7-8\*ap03

64 sequences assigned  
38 (59.4%) exact matches, in which:  
38 unique CDR3  
10 unique J



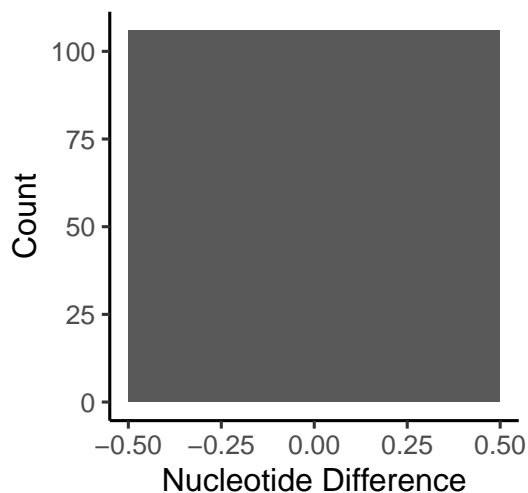
### TRBV29-1\*ap02

525 sequences assigned  
522 (99.4%) exact matches, in which:  
522 unique CDR3  
13 unique J



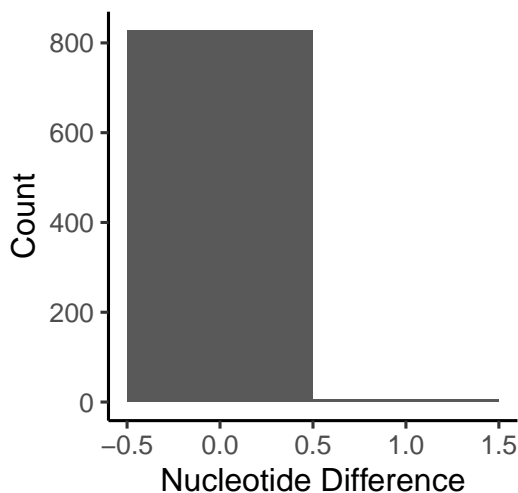
### TRBV7-8\*ap01

106 sequences assigned  
106 (100%) exact matches, in which:  
106 unique CDR3  
11 unique J

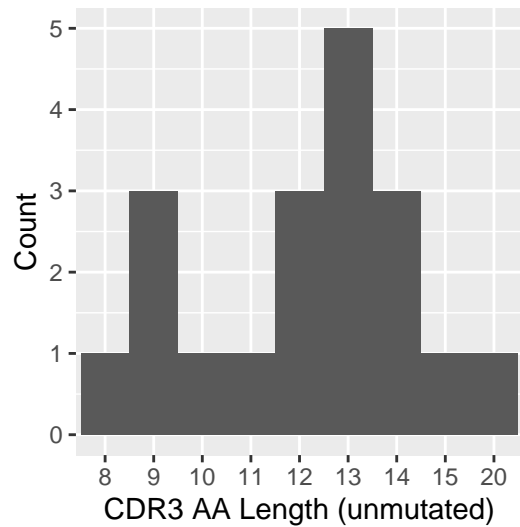


### TRBV7-9\*ap01

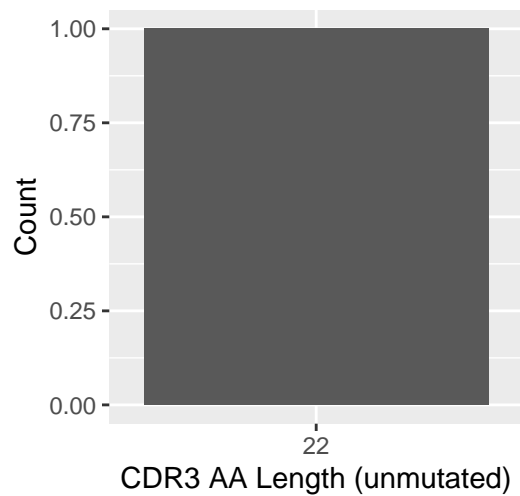
833 sequences assigned  
828 (99.4%) exact matches, in which:  
827 unique CDR3  
13 unique J



TRBV12-2\*ap01\_G301A



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T

