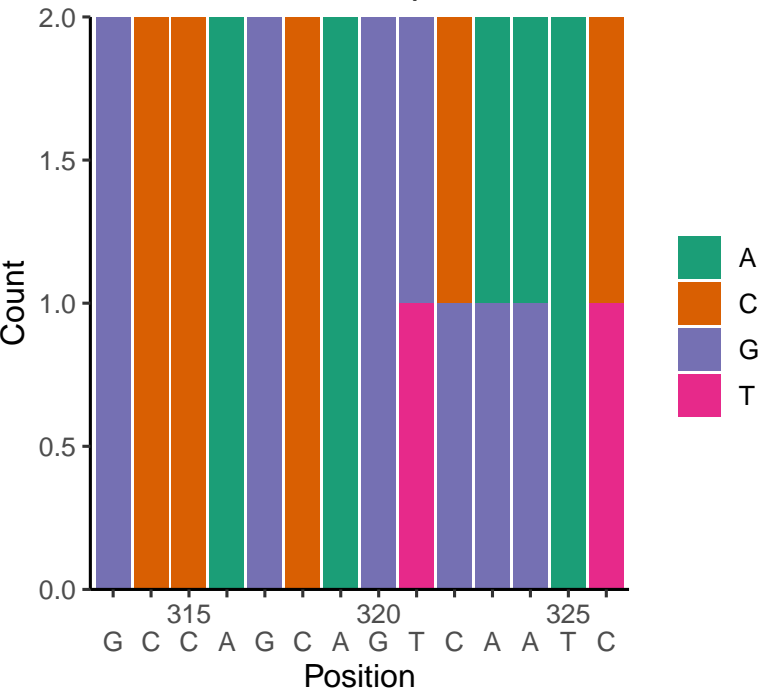
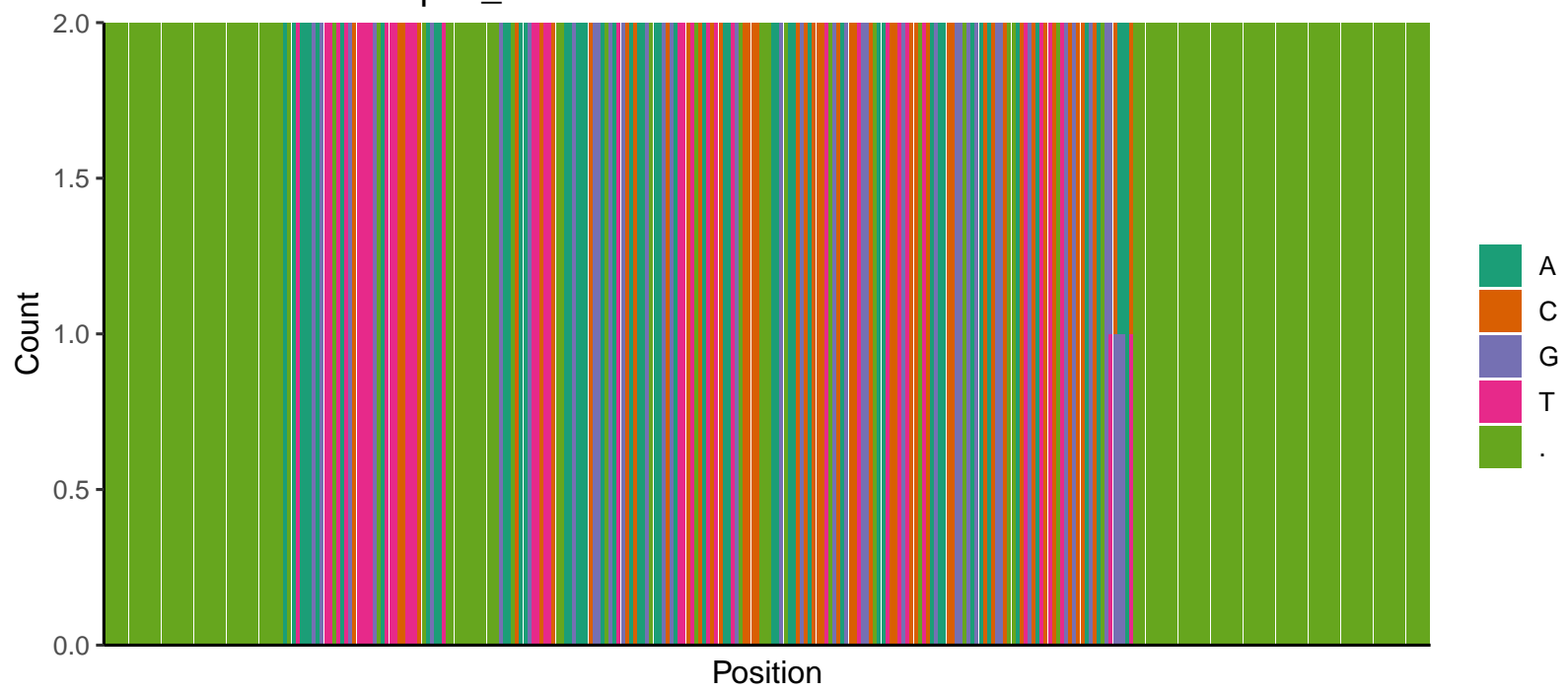


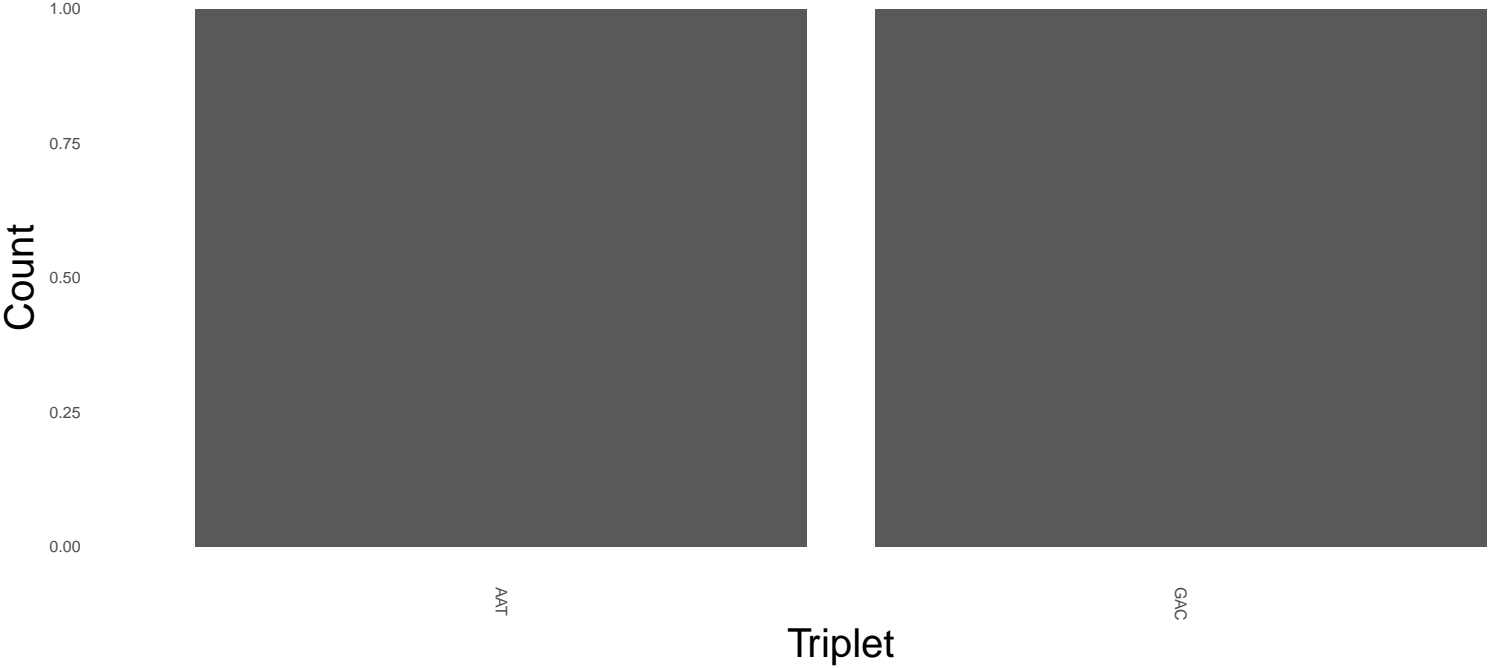
Gene TRBV23-1\*bp01\_T304C



Gene TRBV23-1\*bp01\_T304C

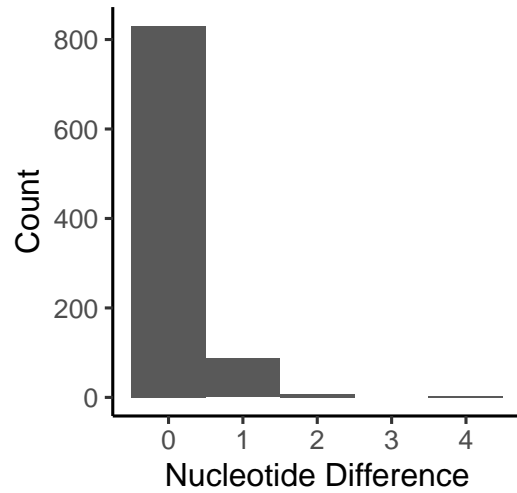


TRBV23-1\*bp01\_T304C- Final 3 nucleotides as a triplet



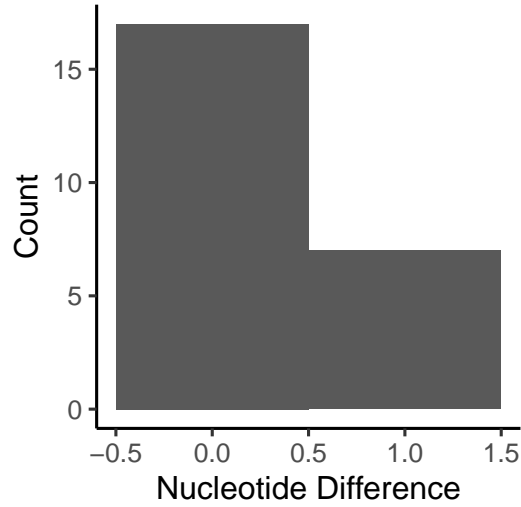
### TRBV20–1\*bp01

930 sequences assigned  
831 (89.4%) exact matches, in which:  
578 unique CDR3  
15 unique J



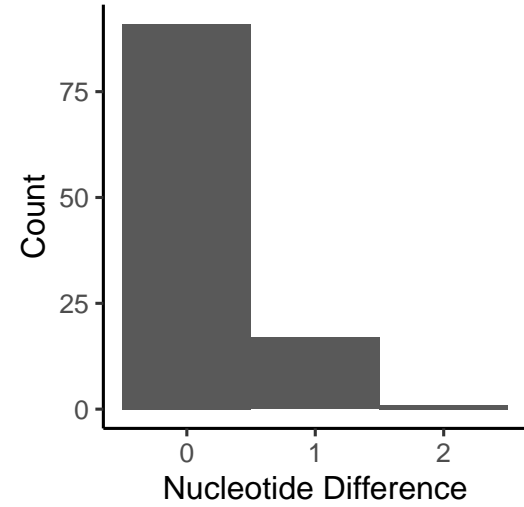
### TRBV10–2\*bp02

24 sequences assigned  
17 (70.8%) exact matches, in which:  
14 unique CDR3  
8 unique J



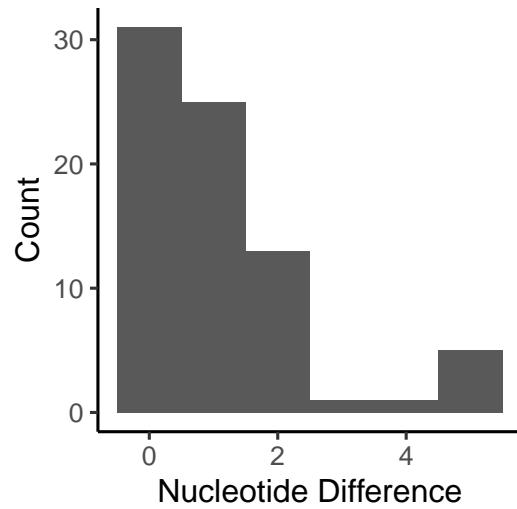
### TRBV14\*bp01

109 sequences assigned  
91 (83.5%) exact matches, in which:  
75 unique CDR3  
13 unique J



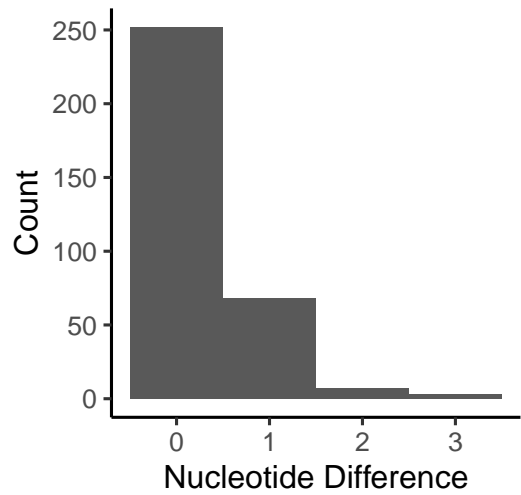
### TRBV10–1\*bp02

76 sequences assigned  
31 (40.8%) exact matches, in which:  
27 unique CDR3  
9 unique J



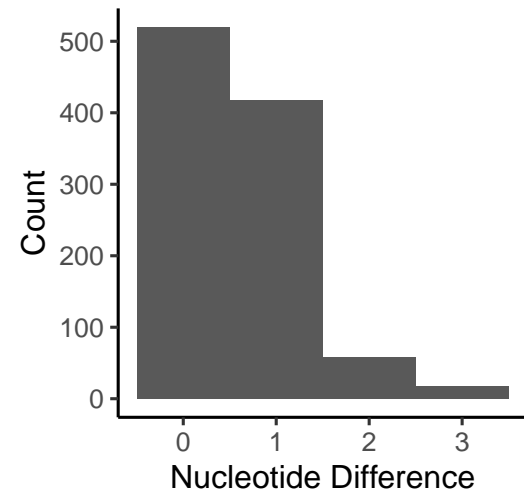
### TRBV10–3\*bp01

330 sequences assigned  
252 (76.4%) exact matches, in which:  
202 unique CDR3  
15 unique J



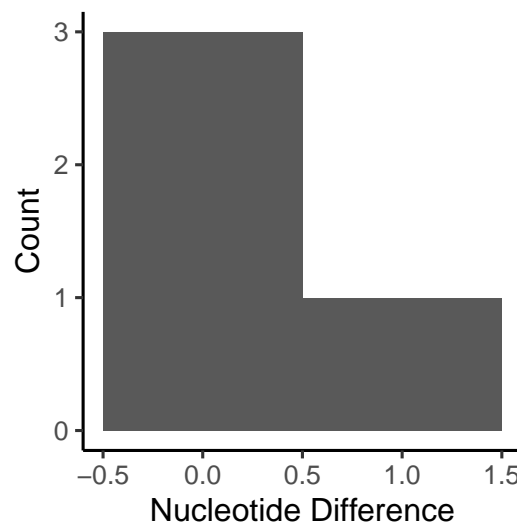
### TRBV15\*bp02

1012 sequences assigned  
520 (51.4%) exact matches, in which:  
286 unique CDR3  
15 unique J



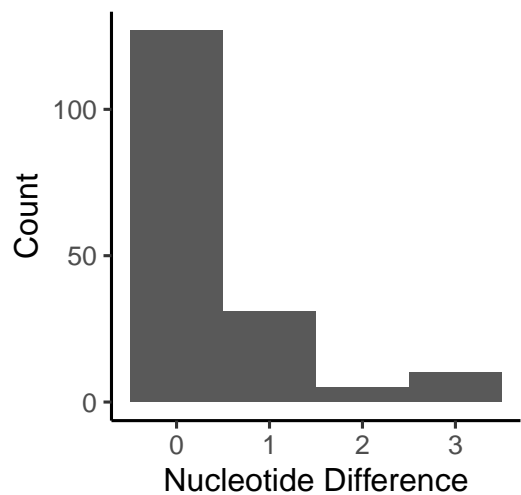
### TRBV10–2\*bp01

4 sequences assigned  
3 (75%) exact matches, in which:  
3 unique CDR3  
1 unique J



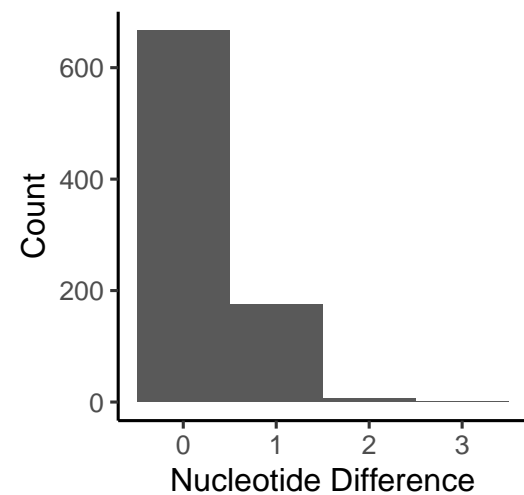
### TRBV13\*bp01

173 sequences assigned  
127 (73.4%) exact matches, in which:  
96 unique CDR3  
15 unique J



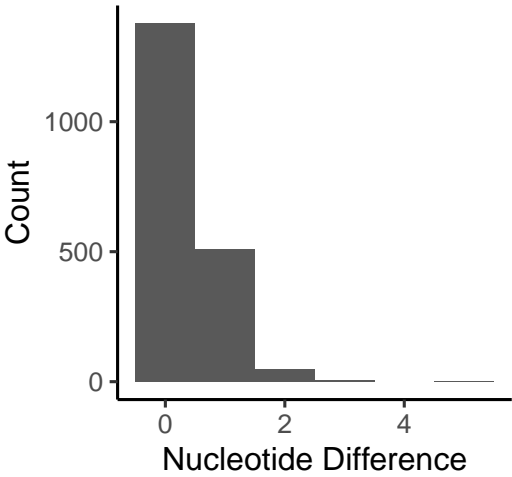
### TRBV18\*bp01

850 sequences assigned  
667 (78.5%) exact matches, in which:  
352 unique CDR3  
15 unique J



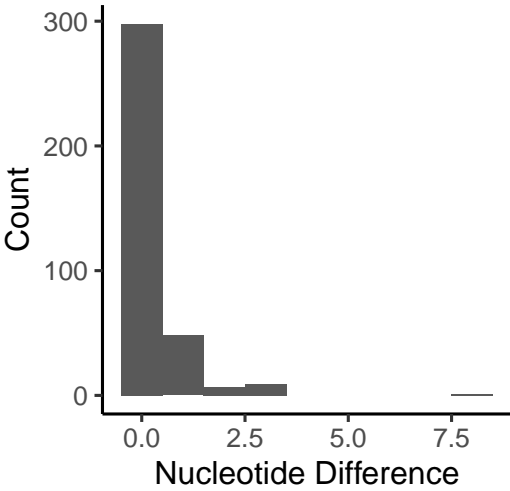
TRBV19\*bp01

1943 sequences assigned  
1378 (70.9%) exact matches, in which:  
770 unique CDR3  
15 unique J



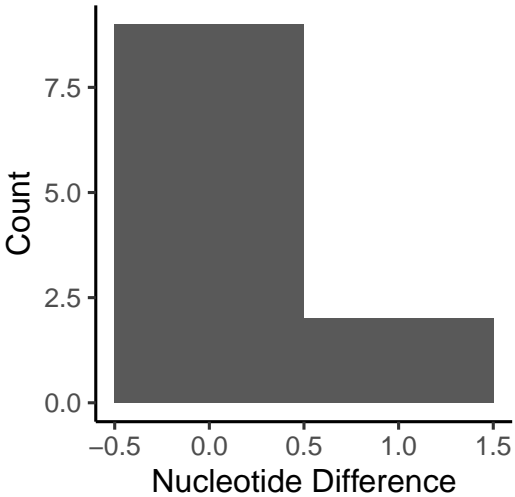
TRBV28\*bp01

363 sequences assigned  
298 (82.1%) exact matches, in which:  
243 unique CDR3  
15 unique J



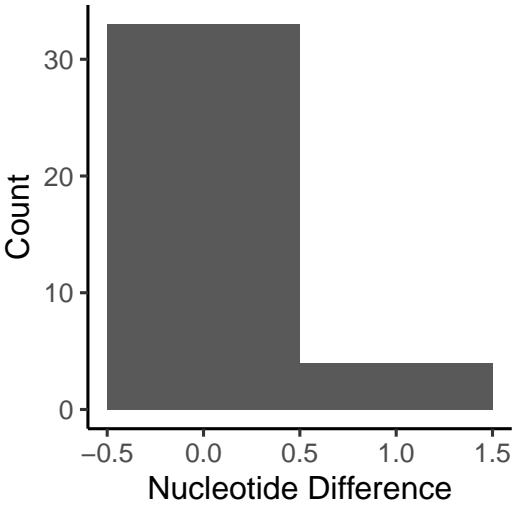
TRBV9\*bp02

11 sequences assigned  
9 (81.8%) exact matches, in which:  
8 unique CDR3  
5 unique J



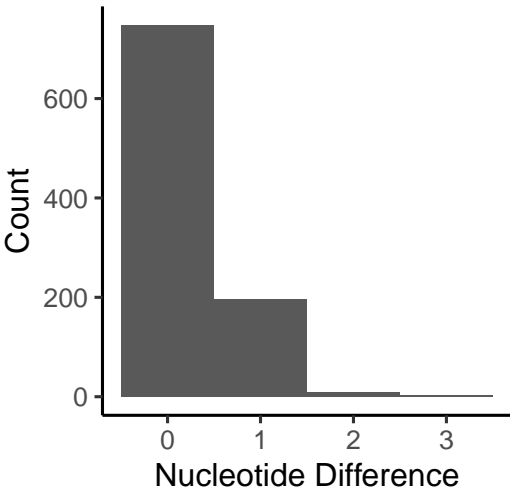
TRBV2\*bp01

37 sequences assigned  
33 (89.2%) exact matches, in which:  
33 unique CDR3  
11 unique J



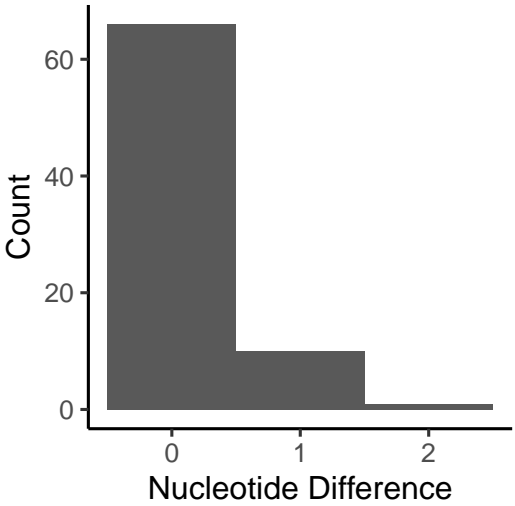
TRBV30\*bp01

958 sequences assigned  
748 (78.1%) exact matches, in which:  
324 unique CDR3  
14 unique J



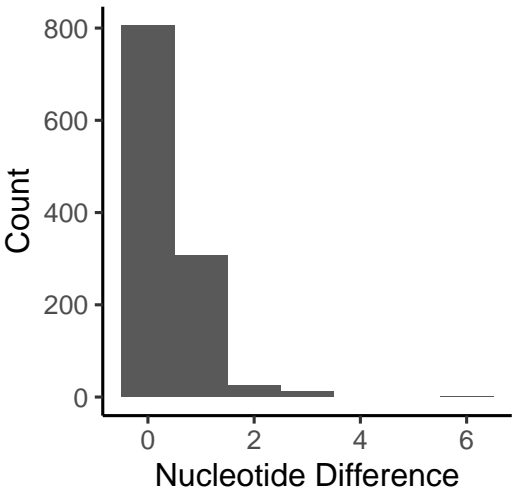
TRBV21-1\*bp01

77 sequences assigned  
66 (85.7%) exact matches, in which:  
62 unique CDR3  
12 unique J



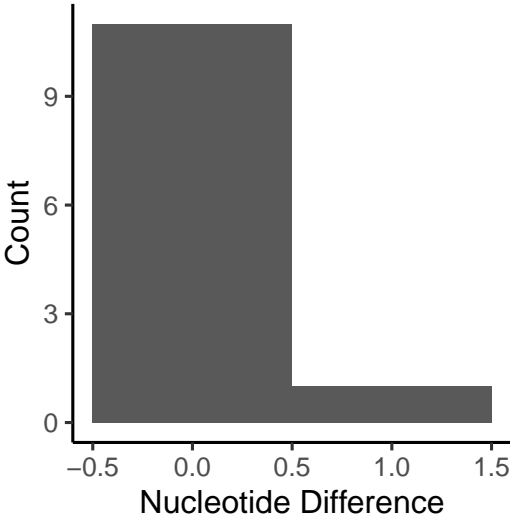
TRBV27\*bp01

1151 sequences assigned  
806 (70%) exact matches, in which:  
613 unique CDR3  
15 unique J



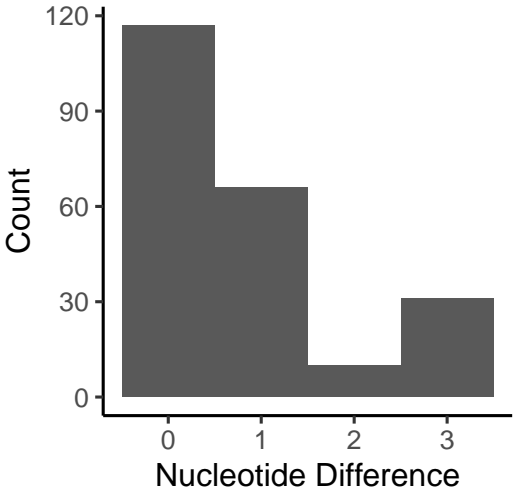
TRBV9\*bp01

12 sequences assigned  
11 (91.7%) exact matches, in which:  
11 unique CDR3  
8 unique J



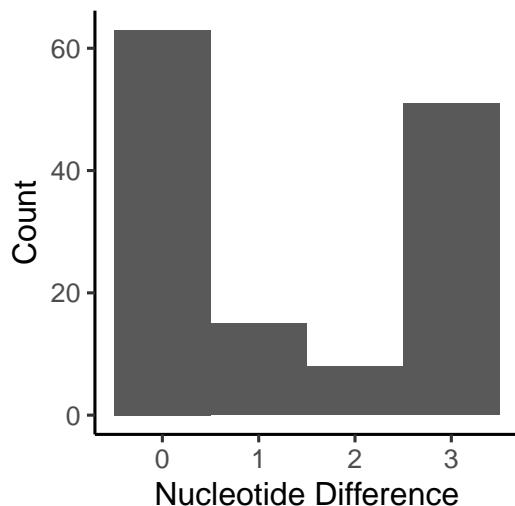
TRBV11-1\*bp01

224 sequences assigned  
117 (52.2%) exact matches, in which:  
83 unique CDR3  
13 unique J



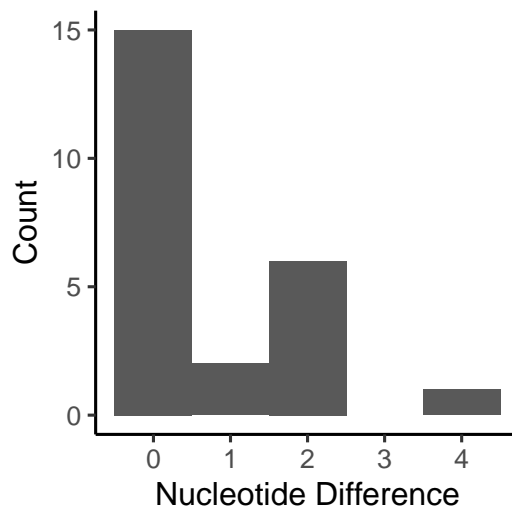
### TRBV11–2\*bp01

137 sequences assigned  
63 (46%) exact matches, in which:  
56 unique CDR3  
13 unique J



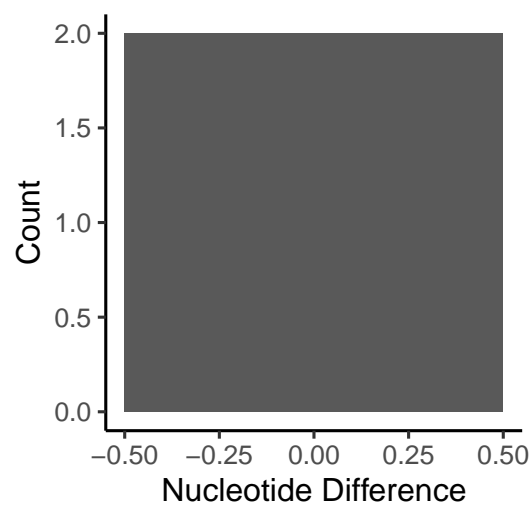
### TRBV12–5\*bp01

24 sequences assigned  
15 (62.5%) exact matches, in which:  
14 unique CDR3  
6 unique J



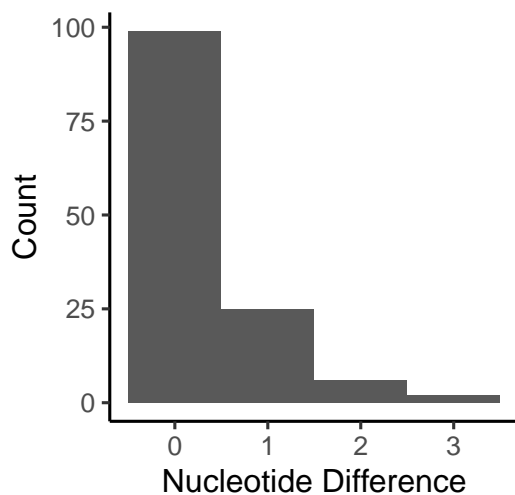
### TRBV23–1\*bp01\_T304C

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



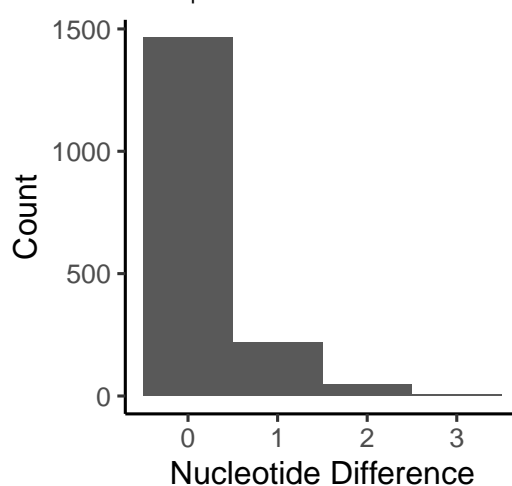
### TRBV11–2\*bp03

132 sequences assigned  
99 (75%) exact matches, in which:  
85 unique CDR3  
15 unique J



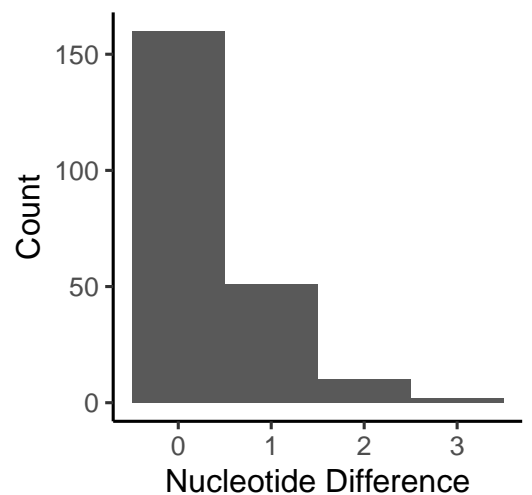
### TRBV12–34\*bp01

1734 sequences assigned  
1464 (84.4%) exact matches, in which:  
762 unique CDR3  
15 unique J



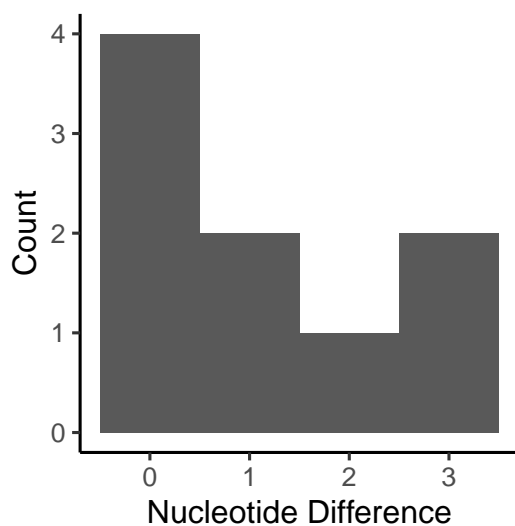
### TRBV24–1\*bp01

223 sequences assigned  
160 (71.7%) exact matches, in which:  
124 unique CDR3  
14 unique J



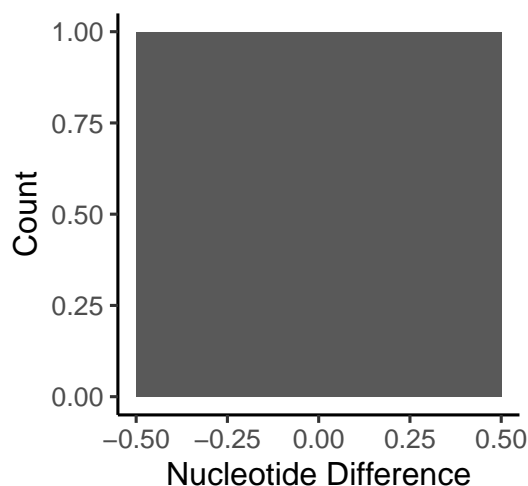
### TRBV11–3\*bp01

9 sequences assigned  
4 (44.4%) exact matches, in which:  
4 unique CDR3  
4 unique J



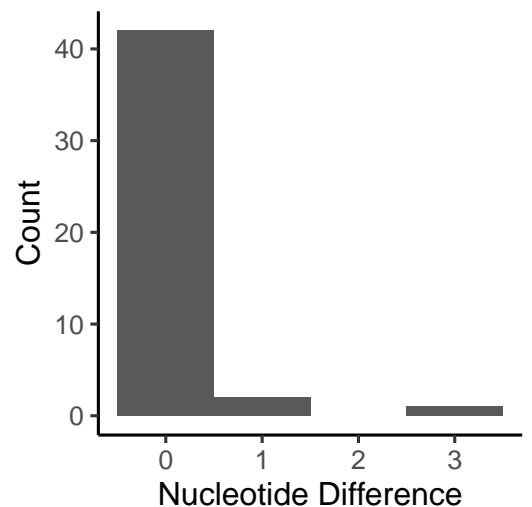
### TRBV23–1\*bp01

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



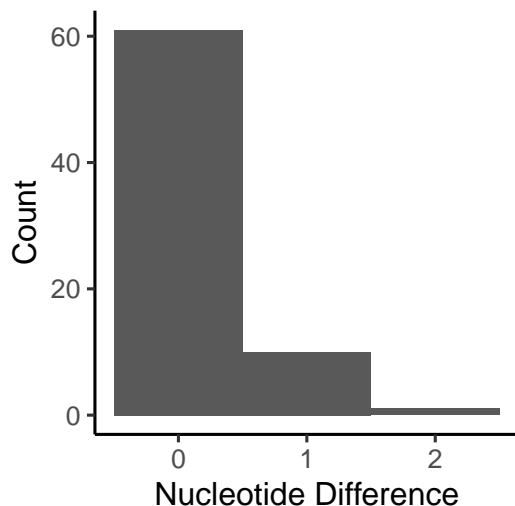
### TRBV4–1\*bp01

45 sequences assigned  
42 (93.3%) exact matches, in which:  
39 unique CDR3  
13 unique J



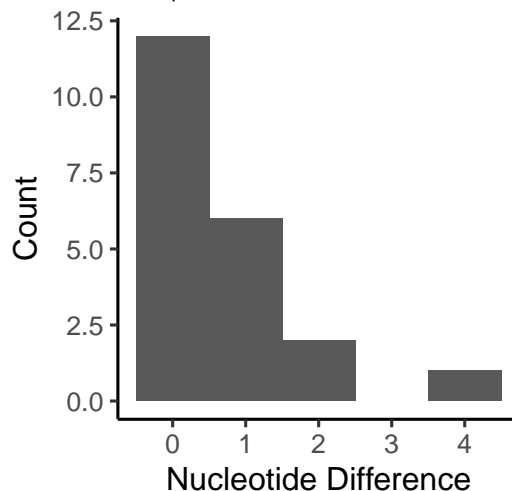
### TRBV4-2\*bp01

72 sequences assigned  
61 (84.7%) exact matches, in which:  
60 unique CDR3  
13 unique J



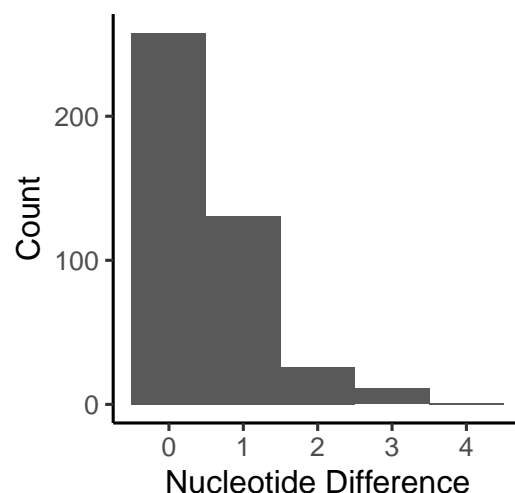
### TRBV5-3\*bp01

21 sequences assigned  
12 (57.1%) exact matches, in which:  
7 unique CDR3  
5 unique J



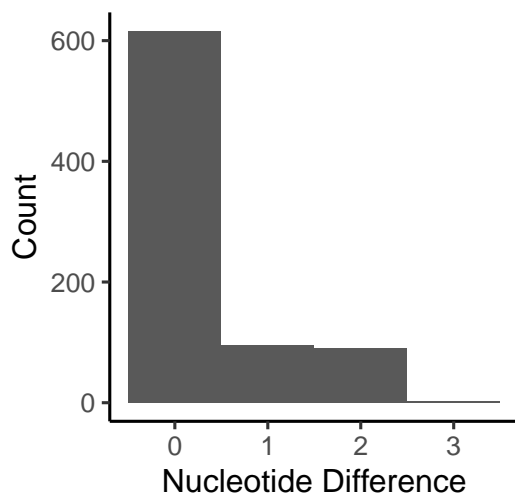
### TRBV5-5\*bp01

427 sequences assigned  
258 (60.4%) exact matches, in which:  
148 unique CDR3  
15 unique J



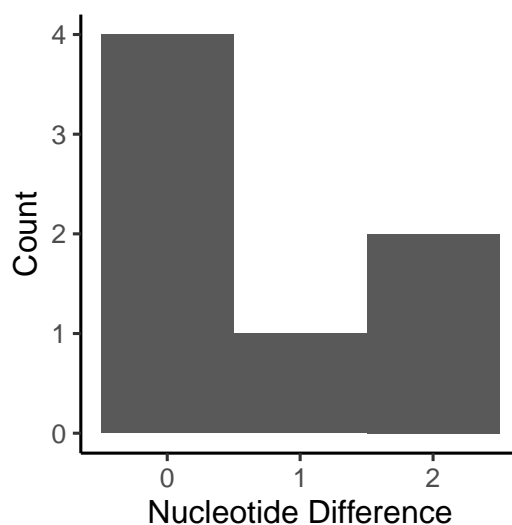
### TRBV5-1\*bp01

803 sequences assigned  
616 (76.7%) exact matches, in which:  
436 unique CDR3  
15 unique J



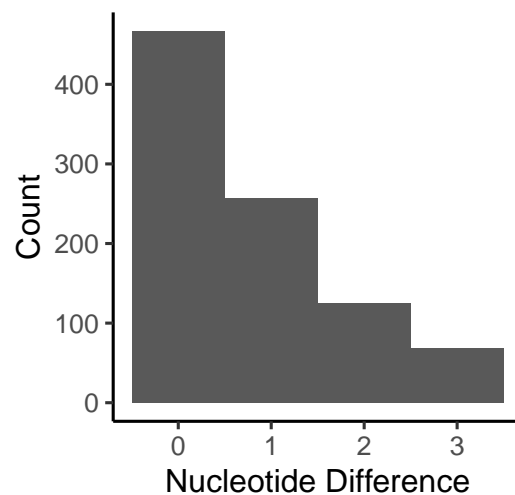
### TRBV5-3\*bp02

7 sequences assigned  
4 (57.1%) exact matches, in which:  
4 unique CDR3  
4 unique J



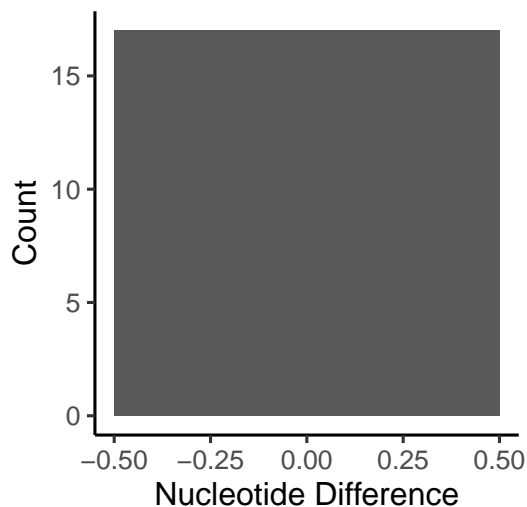
### TRBV5-6\*bp01

917 sequences assigned  
467 (50.9%) exact matches, in which:  
306 unique CDR3  
15 unique J



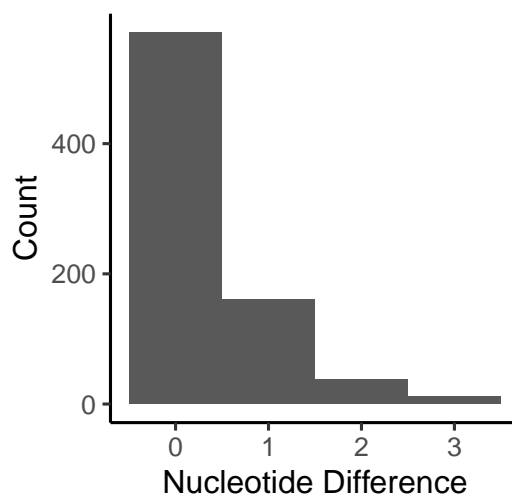
### TRBV25-1\*bp01

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



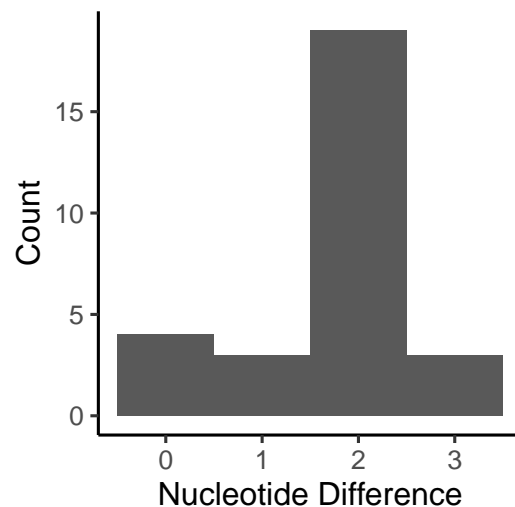
### TRBV5-4\*bp01

780 sequences assigned  
571 (73.2%) exact matches, in which:  
364 unique CDR3  
15 unique J



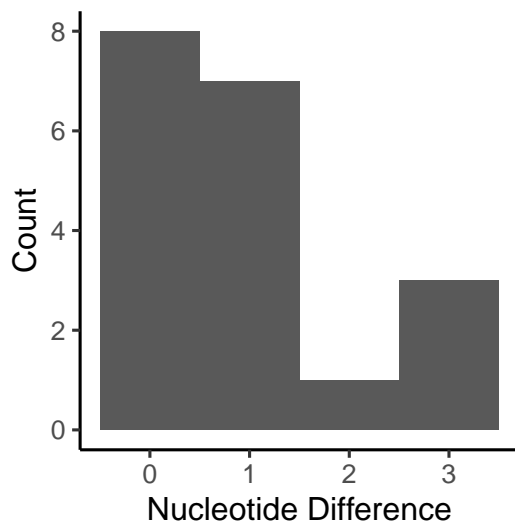
### TRBV5-7\*bp01

29 sequences assigned  
4 (13.8%) exact matches, in which:  
3 unique CDR3  
3 unique J



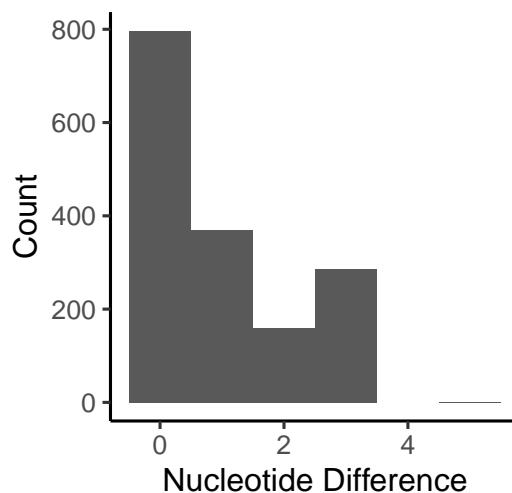
### TRBV5–8\*bp01

19 sequences assigned  
8 (42.1%) exact matches, in which:  
8 unique CDR3  
4 unique J



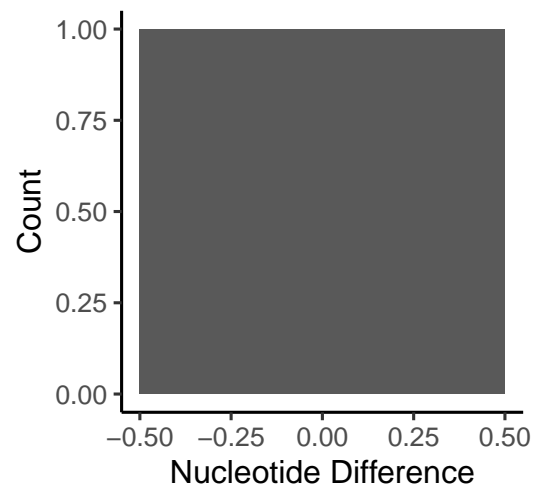
### TRBV6–5\*bp01

1613 sequences assigned  
797 (49.4%) exact matches, in which:  
630 unique CDR3  
15 unique J



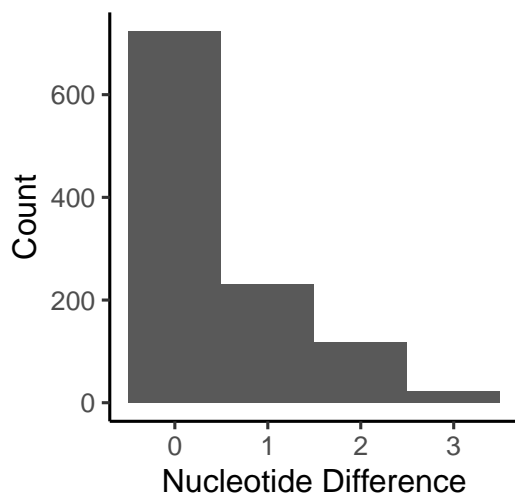
### TRBV6–7\*bp01

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



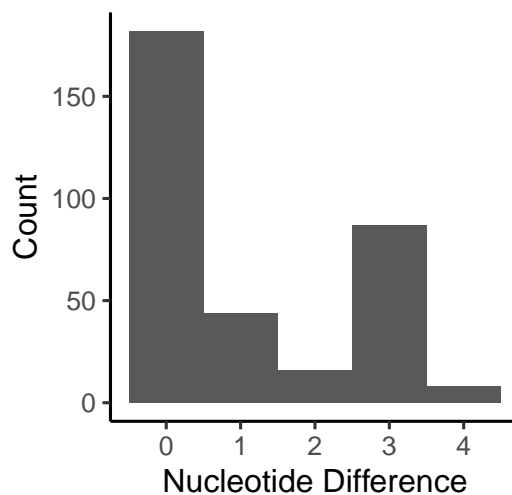
### TRBV6–1\*bp01

1094 sequences assigned  
724 (66.2%) exact matches, in which:  
581 unique CDR3  
15 unique J



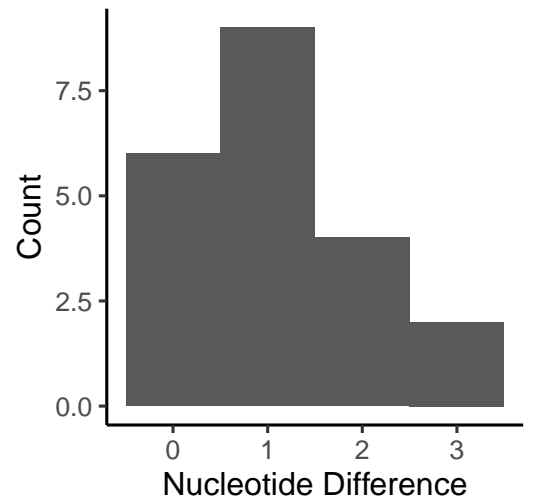
### TRBV6–6\*bp01

337 sequences assigned  
182 (54%) exact matches, in which:  
160 unique CDR3  
14 unique J



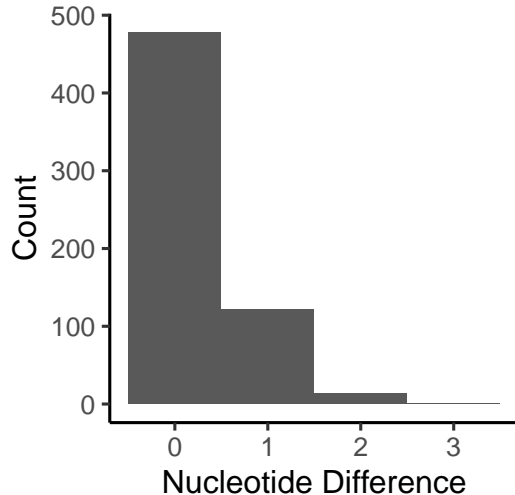
### TRBV6–8\*bp01

21 sequences assigned  
6 (28.6%) exact matches, in which:  
5 unique CDR3  
5 unique J



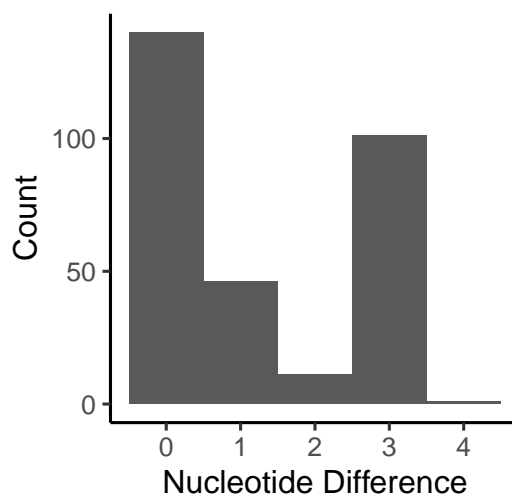
### TRBV6–4\*bp01

614 sequences assigned  
478 (77.9%) exact matches, in which:  
335 unique CDR3  
15 unique J



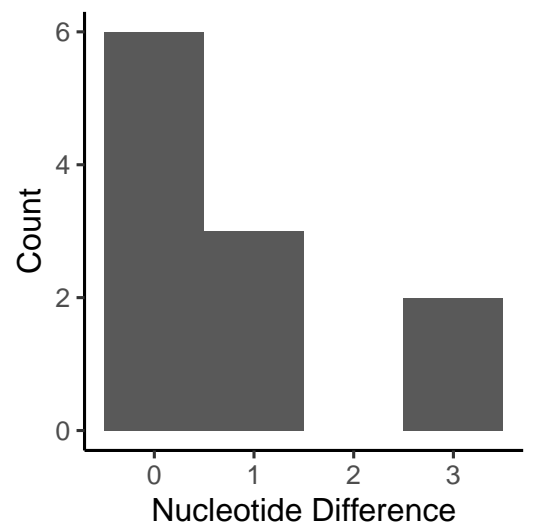
### TRBV6–6\*bp02

299 sequences assigned  
140 (46.8%) exact matches, in which:  
125 unique CDR3  
15 unique J



### TRBV6–9\*bp01

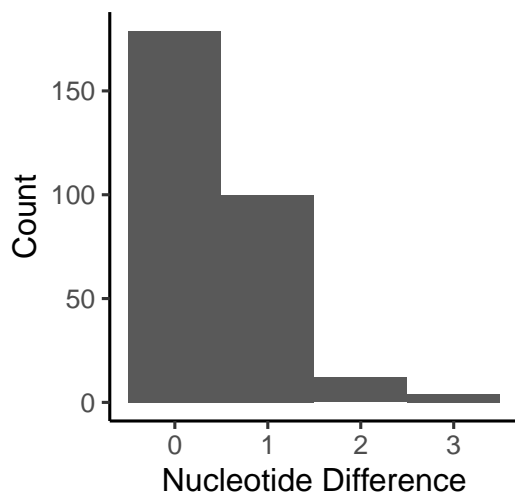
11 sequences assigned  
6 (54.5%) exact matches, in which:  
5 unique CDR3  
4 unique J





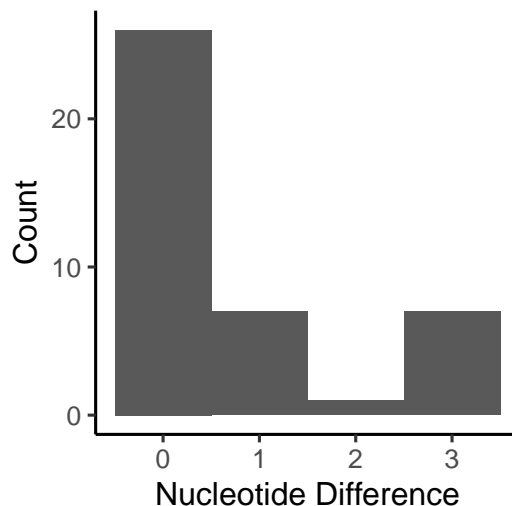
### TRBV6-23\*bp01

295 sequences assigned  
179 (60.7%) exact matches, in which:  
137 unique CDR3  
15 unique J



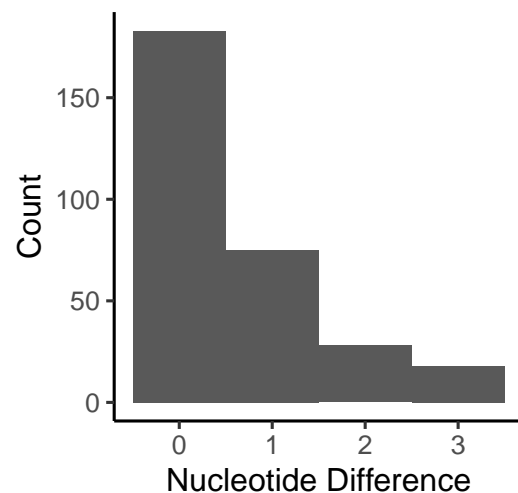
### TRBV7-3\*bp01

41 sequences assigned  
26 (63.4%) exact matches, in which:  
22 unique CDR3  
11 unique J



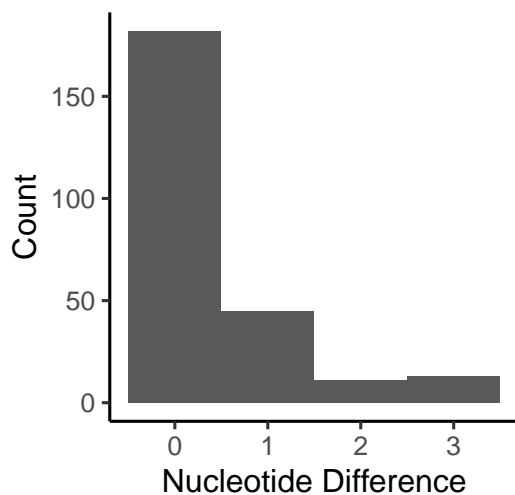
### TRBV7-6\*bp01

304 sequences assigned  
183 (60.2%) exact matches, in which:  
101 unique CDR3  
15 unique J



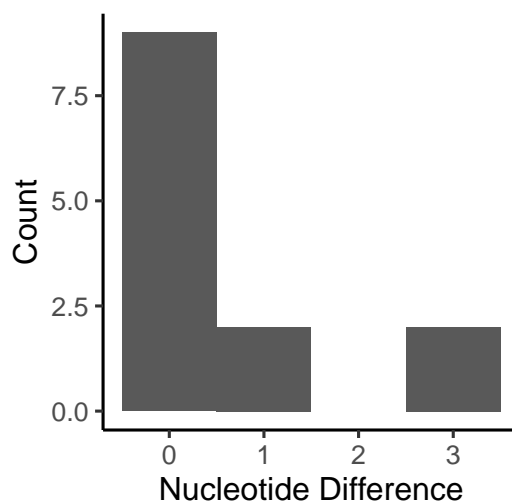
### TRBV7-2\*bp01

251 sequences assigned  
182 (72.5%) exact matches, in which:  
141 unique CDR3  
14 unique J



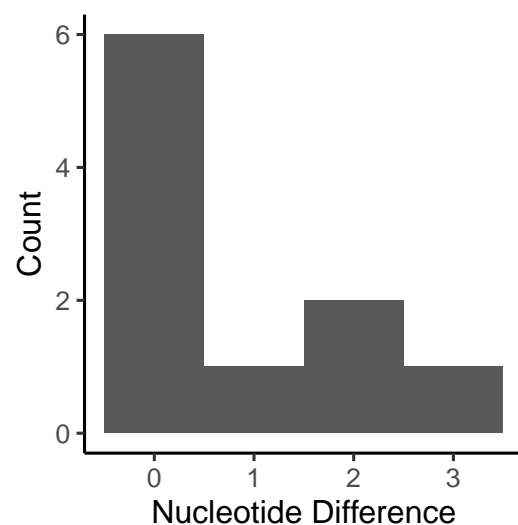
### TRBV7-3\*bp03

13 sequences assigned  
9 (69.2%) exact matches, in which:  
8 unique CDR3  
4 unique J



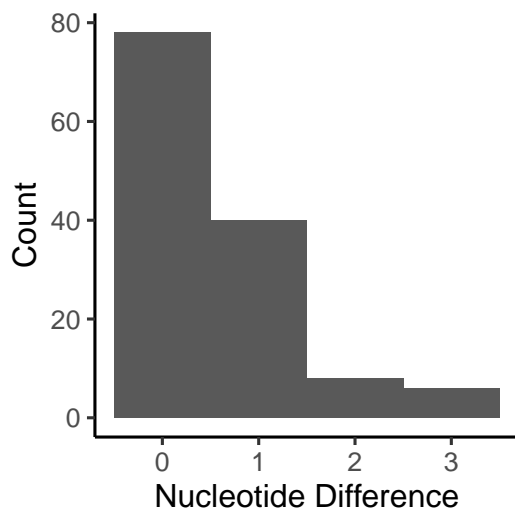
### TRBV7-7\*bp01

10 sequences assigned  
6 (60%) exact matches, in which:  
6 unique CDR3  
3 unique J



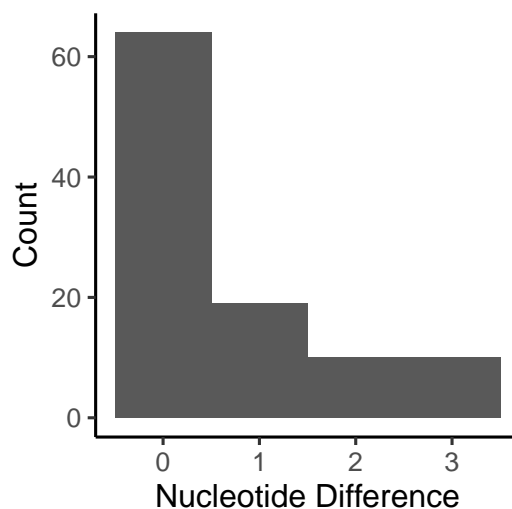
### TRBV7-2\*bp02

132 sequences assigned  
78 (59.1%) exact matches, in which:  
60 unique CDR3  
12 unique J



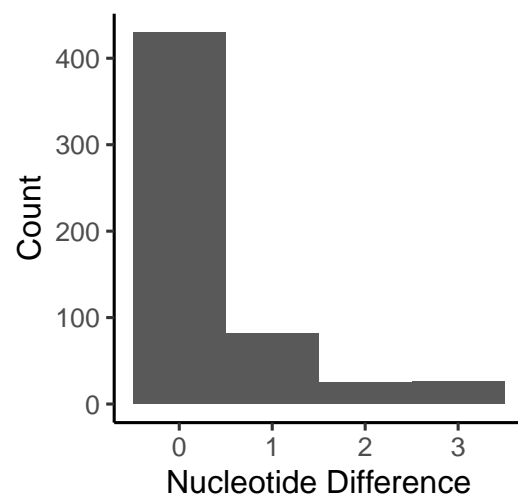
### TRBV7-4\*bp01

103 sequences assigned  
64 (62.1%) exact matches, in which:  
46 unique CDR3  
12 unique J



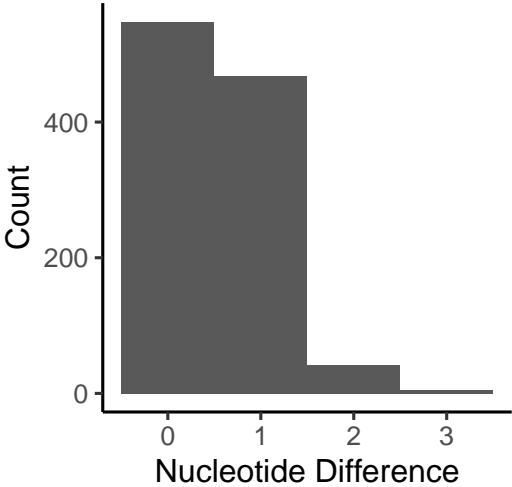
### TRBV7-9\*bp01

563 sequences assigned  
430 (76.4%) exact matches, in which:  
296 unique CDR3  
15 unique J

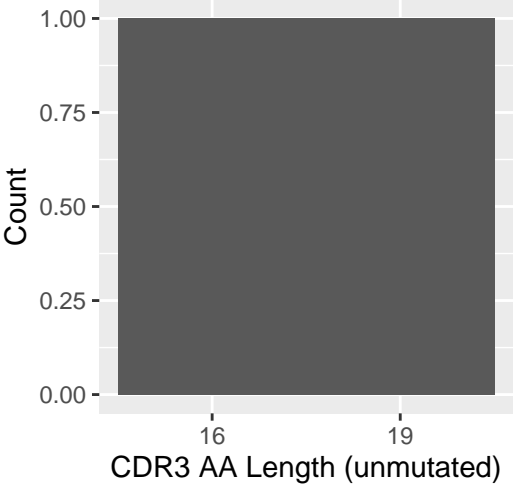


# TRBV29-1\*bp01

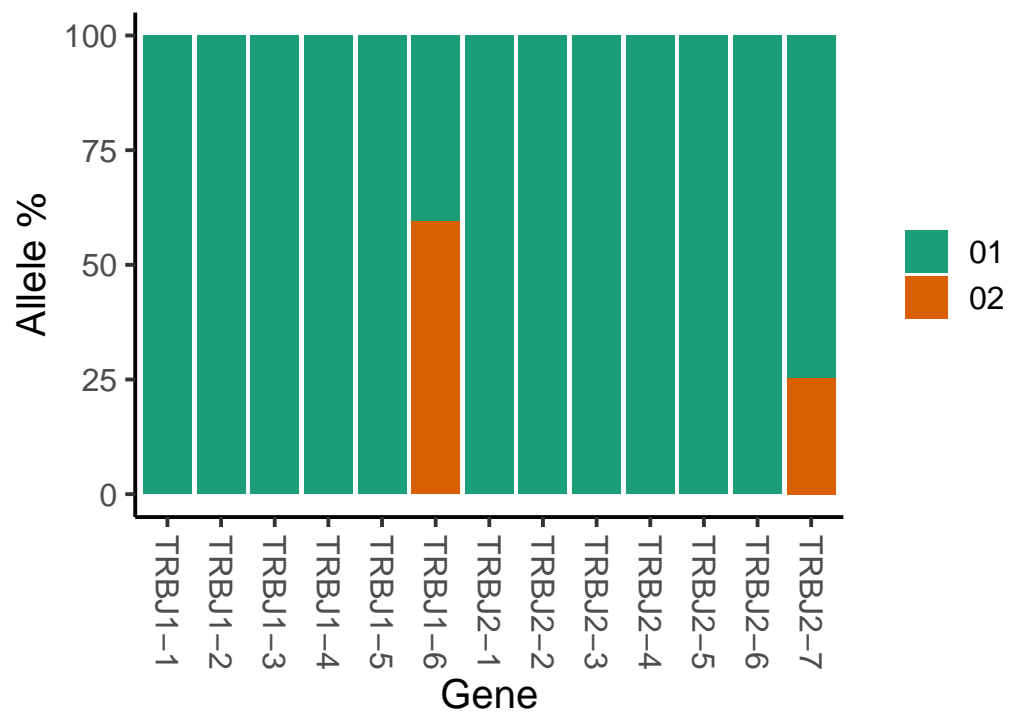
1063 sequences assigned  
548 (51.6%) exact matches, in which:  
346 unique CDR3  
15 unique J



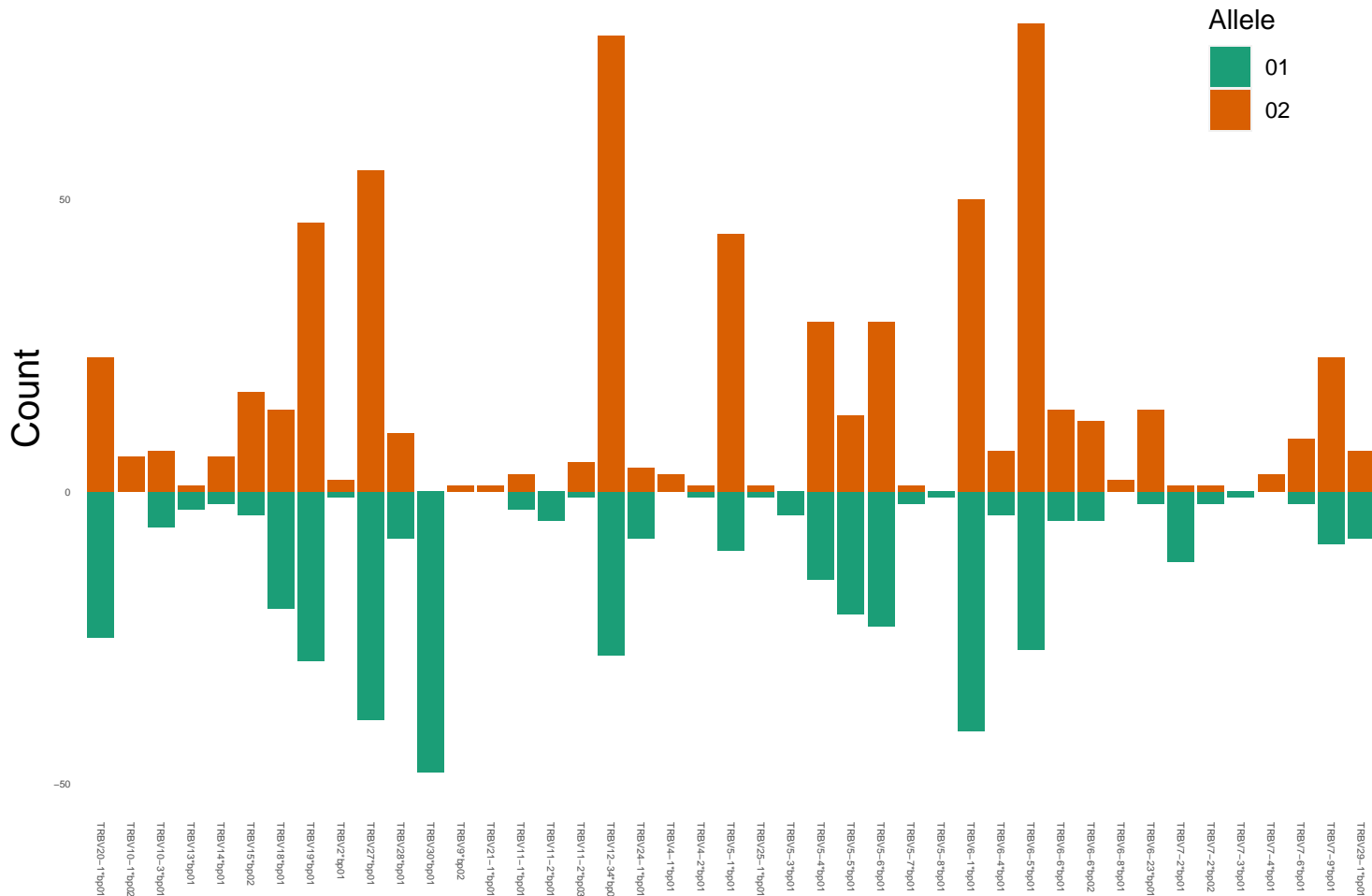
TRBV23-1\*bp01\_T304C



Allele Usage



Sequence Count by TRBJ1–6 allele usage



Sequence Count by TRBJ2–7 allele usage

