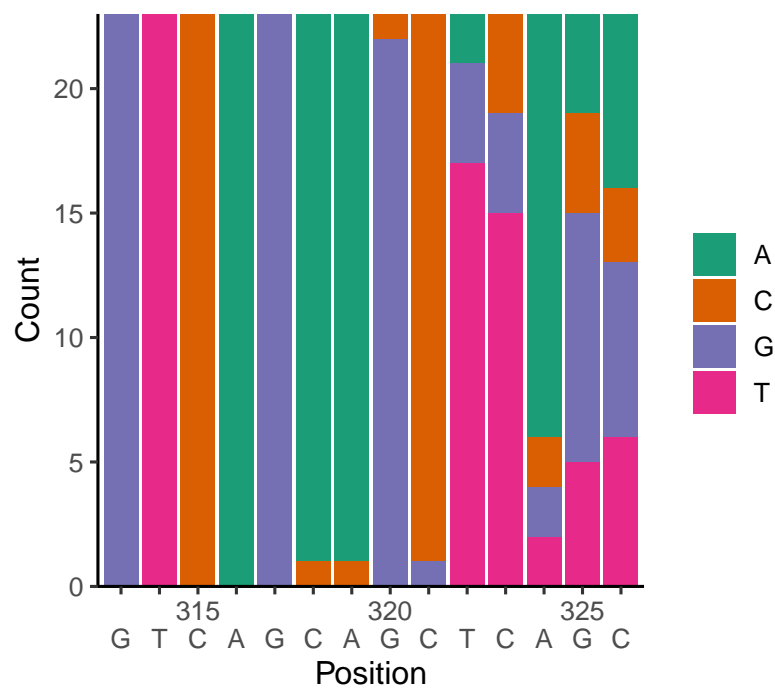
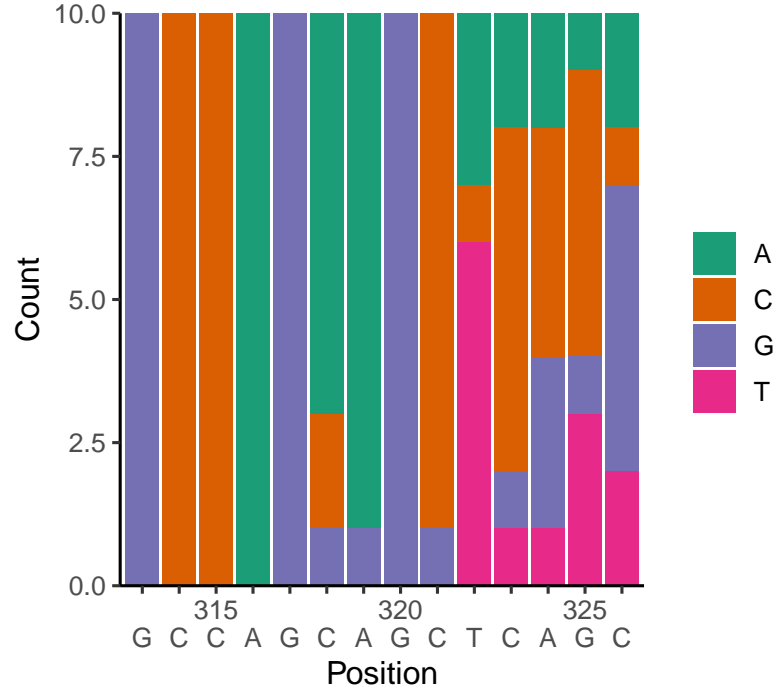


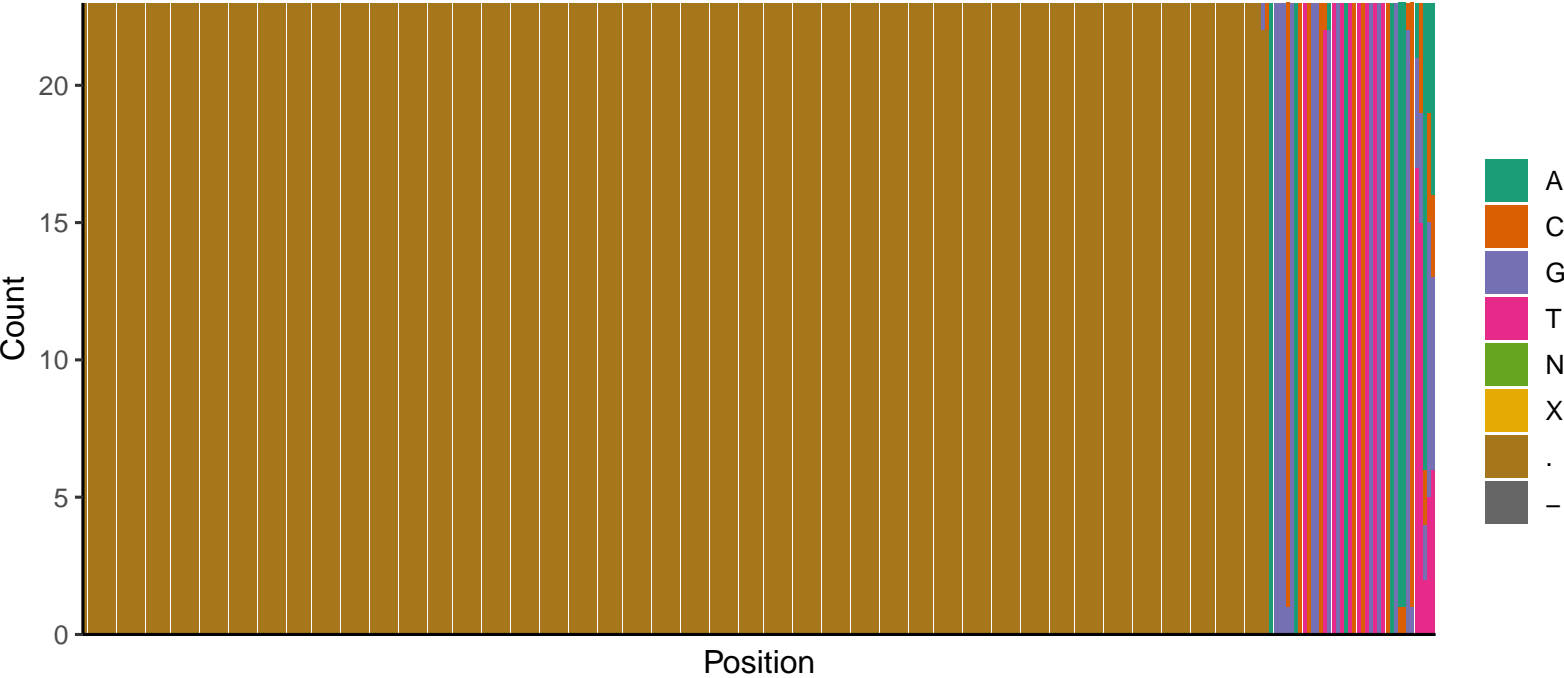
Gene TRBV7-1\*ap01\_T296C\_C314T



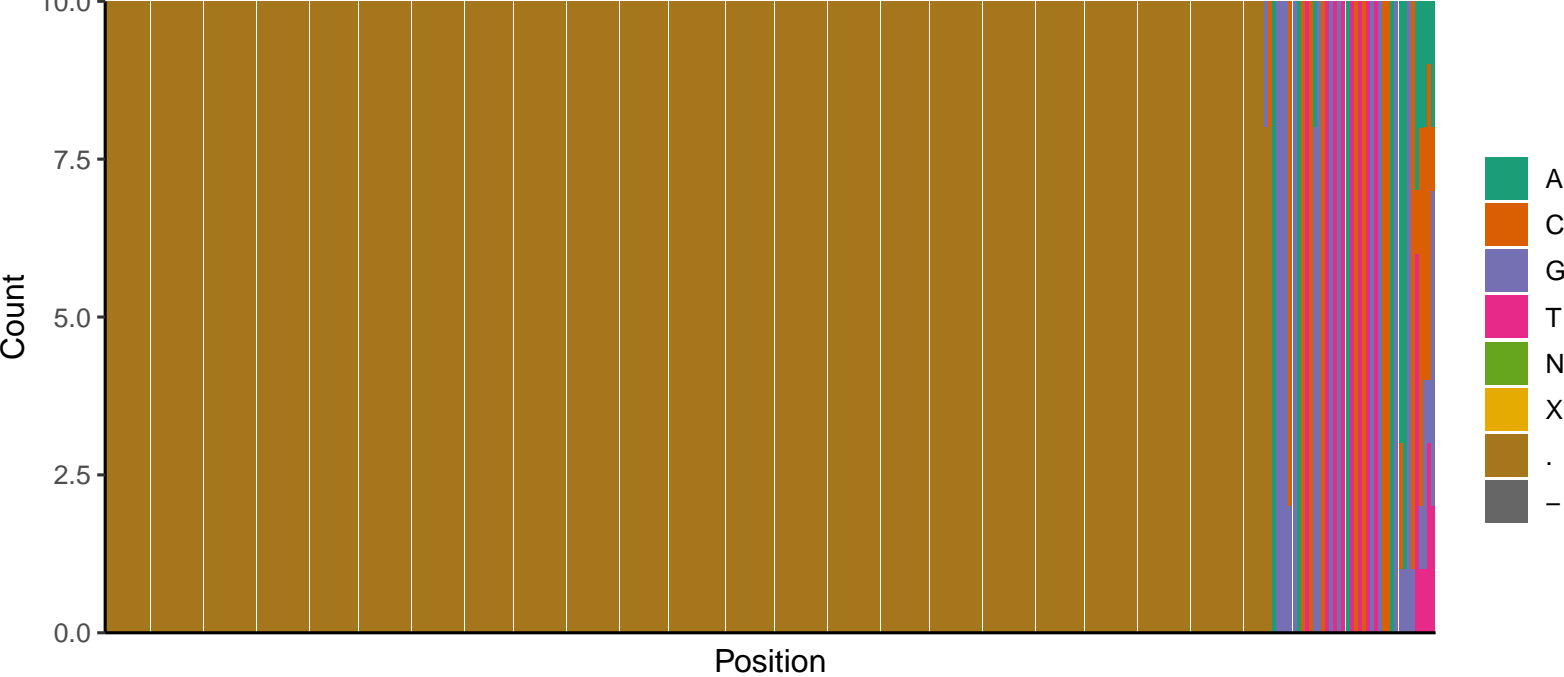
Gene TRBV7-1\*ap01\_T296C



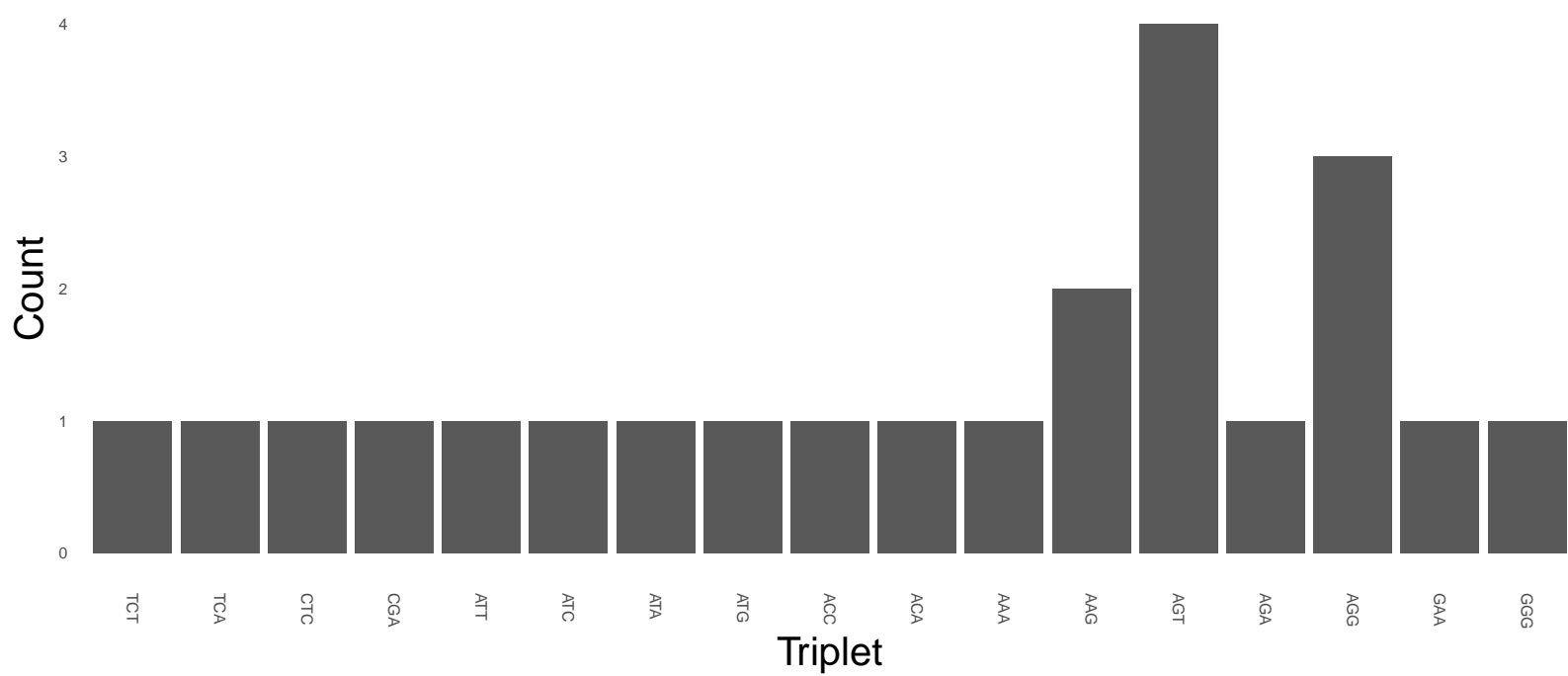
Gene TRBV7-1\*ap01\_T296C\_C314T



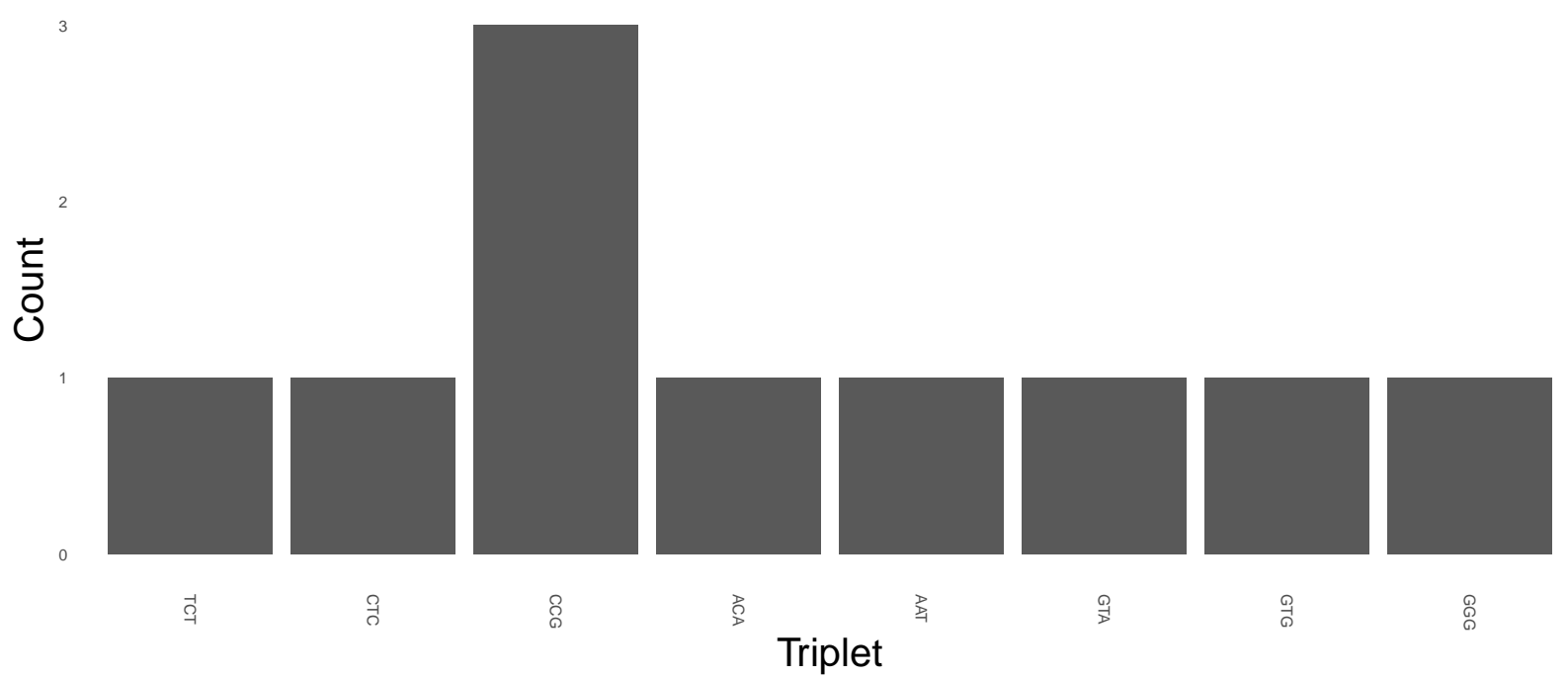
Gene TRBV7-1\*ap01\_T296C



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

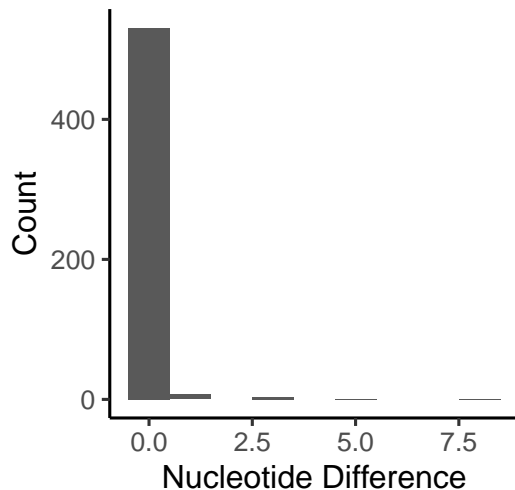


TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



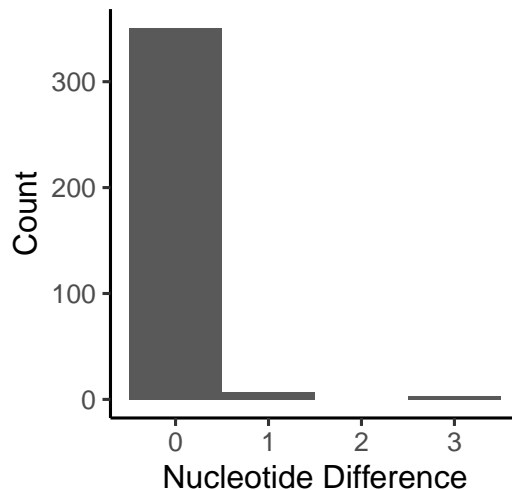
### TRBV10–1\*ap01

543 sequences assigned  
531 (97.8%) exact matches, in which:  
521 unique CDR3  
13 unique J



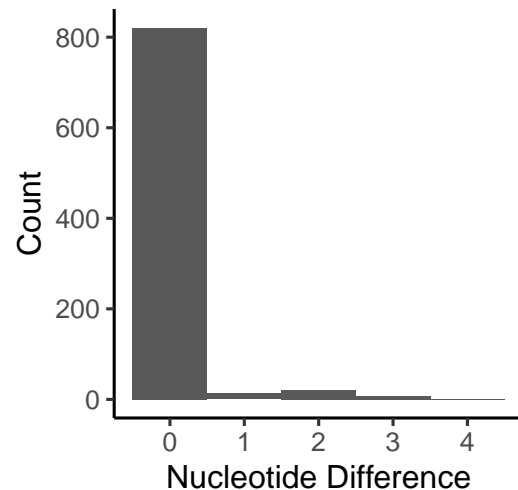
### TRBV10–2\*ap01

361 sequences assigned  
351 (97.2%) exact matches, in which:  
344 unique CDR3  
13 unique J



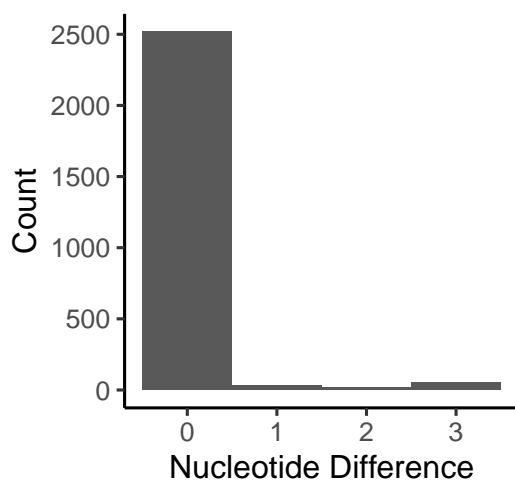
### TRBV13\*ap01

863 sequences assigned  
821 (95.1%) exact matches, in which:  
800 unique CDR3  
13 unique J



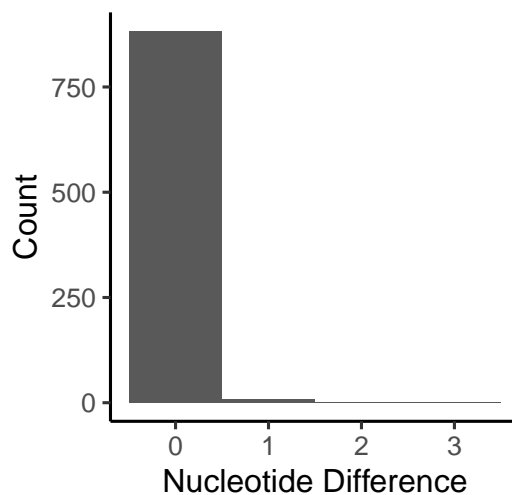
### TRBV20–1\*ap01

2622 sequences assigned  
2518 (96%) exact matches, in which:  
2462 unique CDR3  
13 unique J



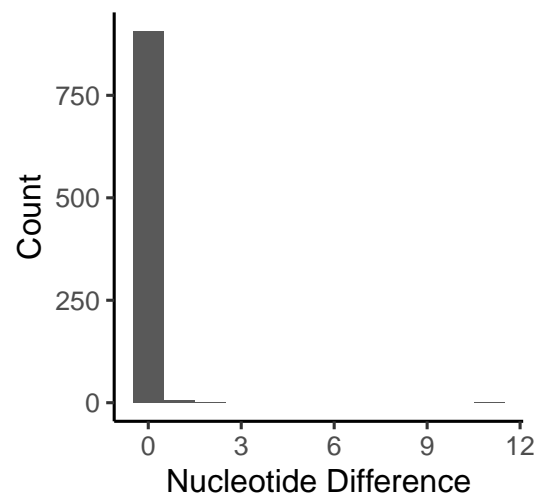
### TRBV10–3\*ap01

896 sequences assigned  
883 (98.5%) exact matches, in which:  
874 unique CDR3  
13 unique J



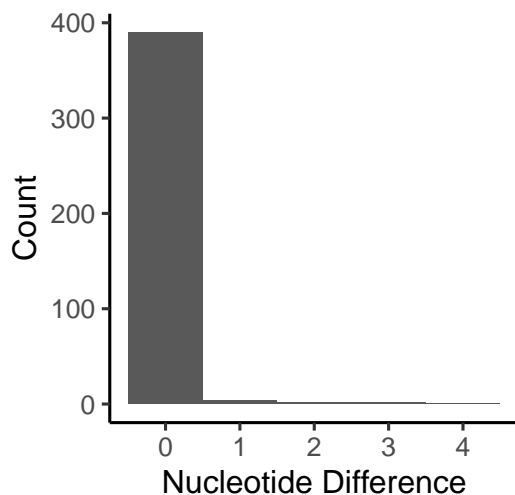
### TRBV14\*ap01

915 sequences assigned  
907 (99.1%) exact matches, in which:  
889 unique CDR3  
13 unique J



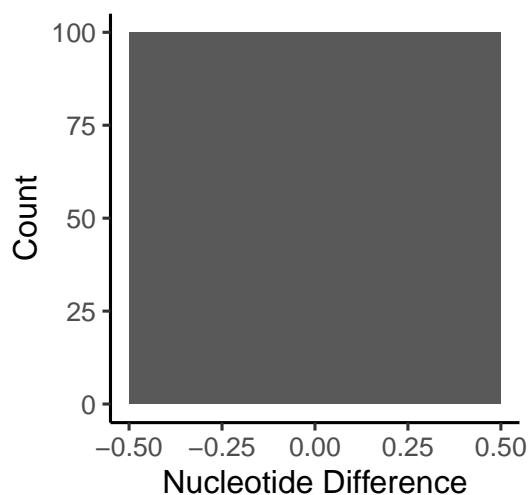
### TRBV20–1\*ap02

399 sequences assigned  
390 (97.7%) exact matches, in which:  
381 unique CDR3  
13 unique J



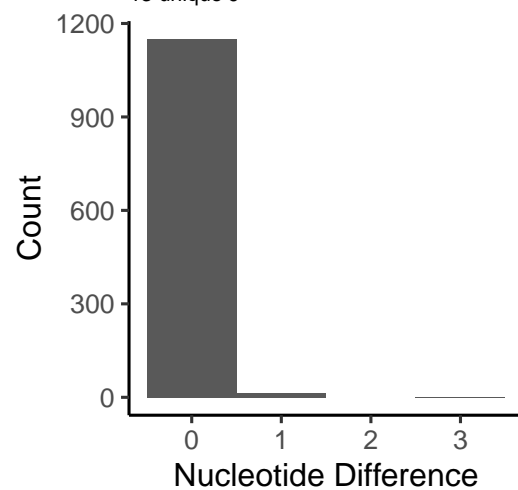
### TRBV1\*ap01

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



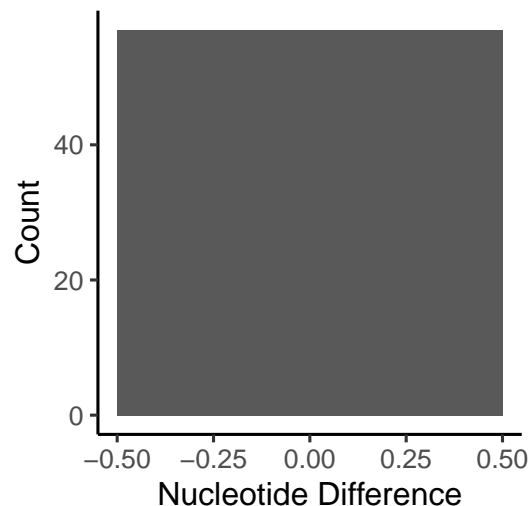
### TRBV15\*ap02

1164 sequences assigned  
1150 (98.8%) exact matches, in which:  
1135 unique CDR3  
13 unique J



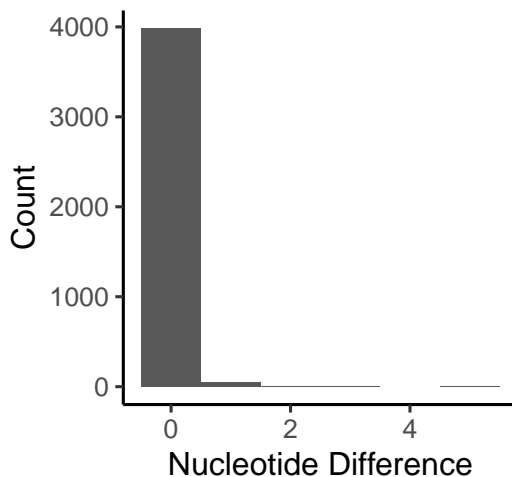
### TRBV16\*ap01

57 sequences assigned  
57 (100%) exact matches, in which:  
57 unique CDR3  
12 unique J



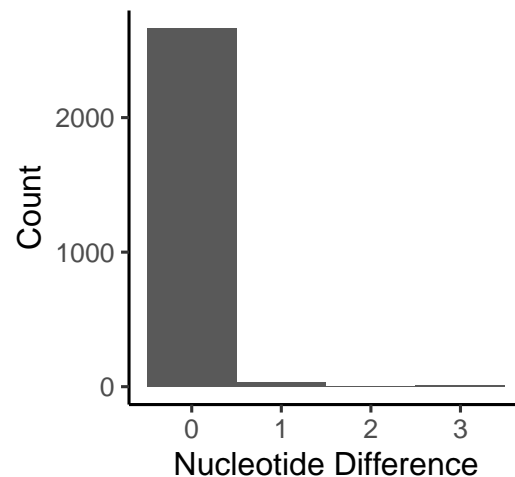
### TRBV19\*ap01

4055 sequences assigned  
3983 (98.2%) exact matches, in which:  
3926 unique CDR3  
13 unique J



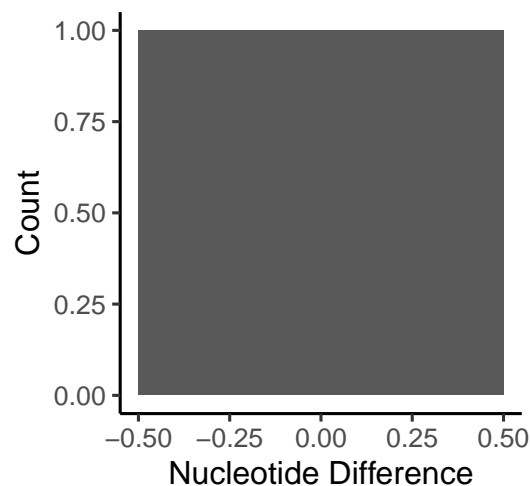
### TRBV28\*ap01

2711 sequences assigned  
2663 (98.2%) exact matches, in which:  
2633 unique CDR3  
13 unique J



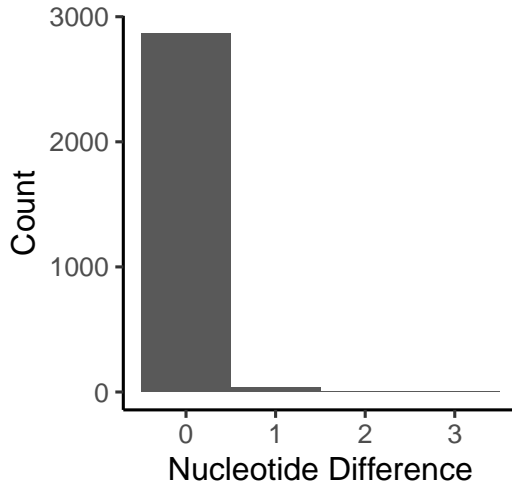
### TRBV17\*ap01

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



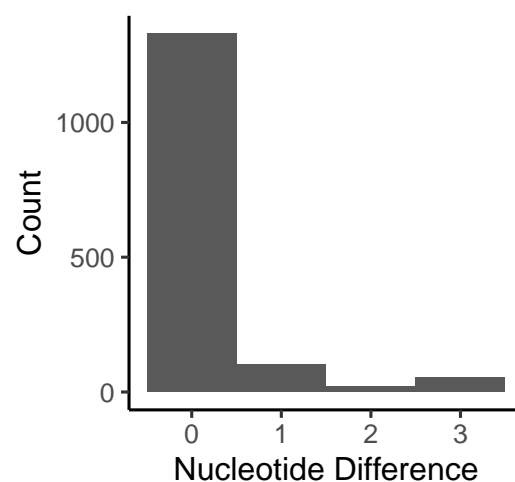
### TRBV2\*ap01

2909 sequences assigned  
2864 (98.5%) exact matches, in which:  
2830 unique CDR3  
13 unique J



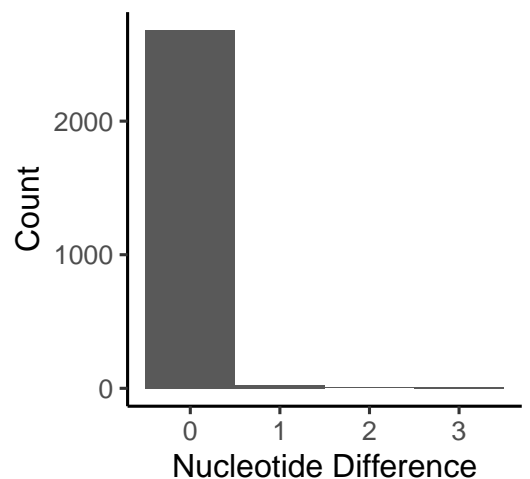
### TRBV30\*ap01

1504 sequences assigned  
1329 (88.4%) exact matches, in which:  
1305 unique CDR3  
13 unique J



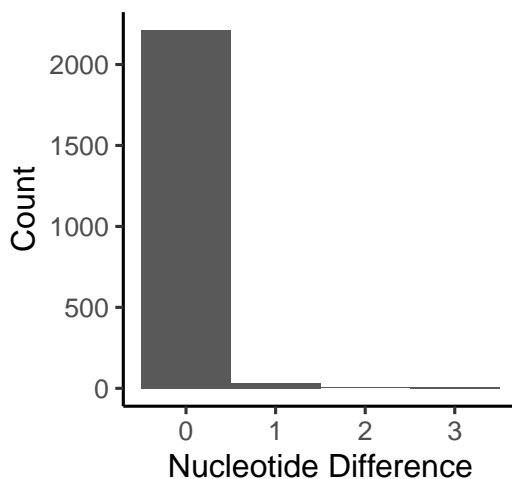
### TRBV18\*ap01

2725 sequences assigned  
2682 (98.4%) exact matches, in which:  
2624 unique CDR3  
13 unique J



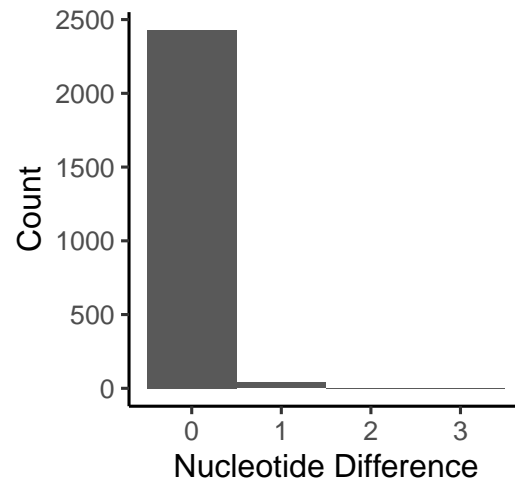
### TRBV27\*ap01

2259 sequences assigned  
2213 (98%) exact matches, in which:  
2190 unique CDR3  
13 unique J



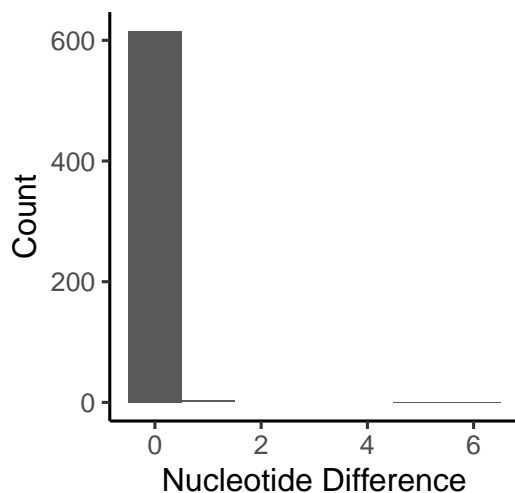
### TRBV9\*ap01

2476 sequences assigned  
2429 (98.1%) exact matches, in which:  
2385 unique CDR3  
13 unique J



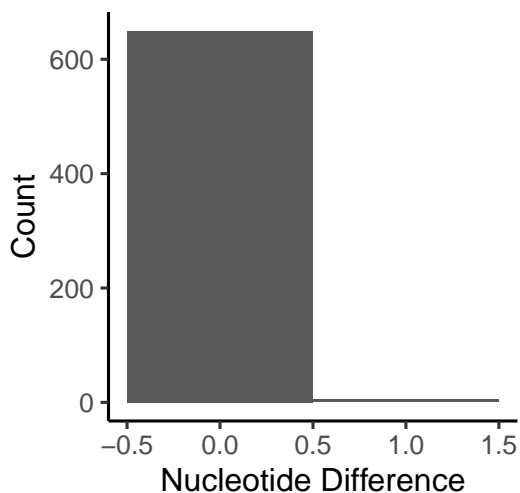
### TRBV21–1\*ap01

621 sequences assigned  
616 (99.2%) exact matches, in which:  
614 unique CDR3  
13 unique J



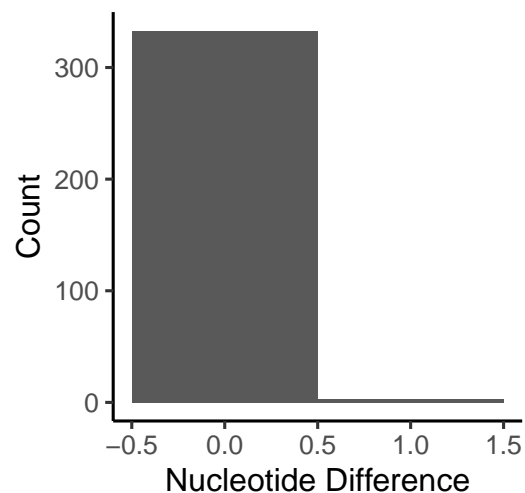
### TRBV11–3\*ap01

655 sequences assigned  
650 (99.2%) exact matches, in which:  
644 unique CDR3  
13 unique J



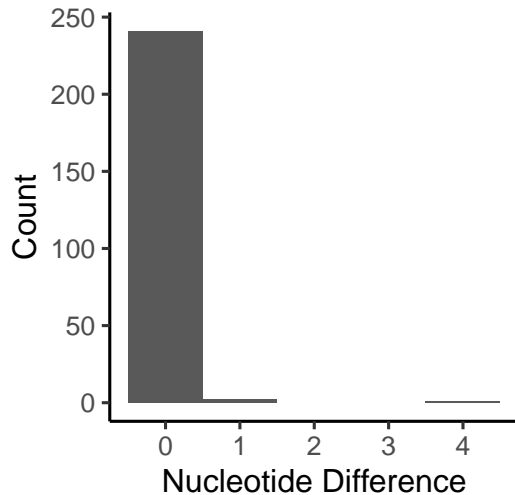
### TRBV12–5\*ap01

336 sequences assigned  
333 (99.1%) exact matches, in which:  
331 unique CDR3  
13 unique J



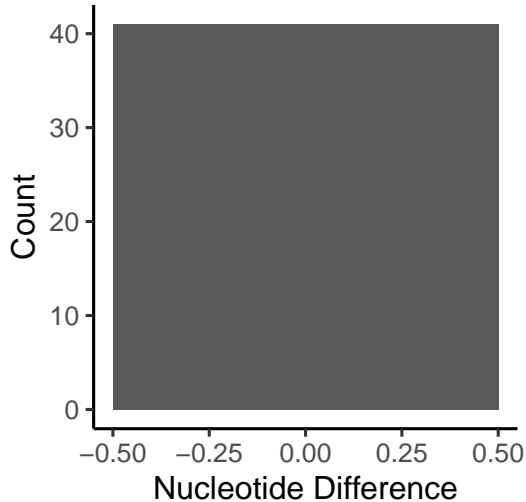
### TRBV11–1\*ap01

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



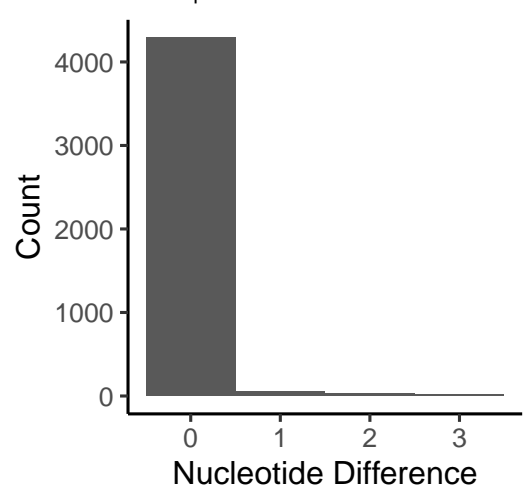
### TRBV12–1\*ap01

41 sequences assigned  
41 (100%) exact matches, in which:  
41 unique CDR3  
13 unique J



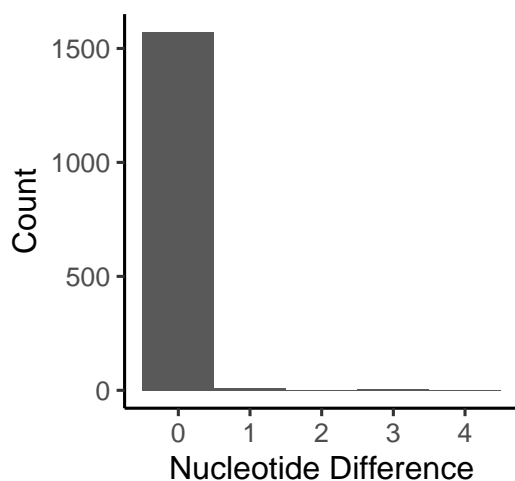
### TRBV12–34\*ap01

4383 sequences assigned  
4290 (97.9%) exact matches, in which:  
4225 unique CDR3  
13 unique J



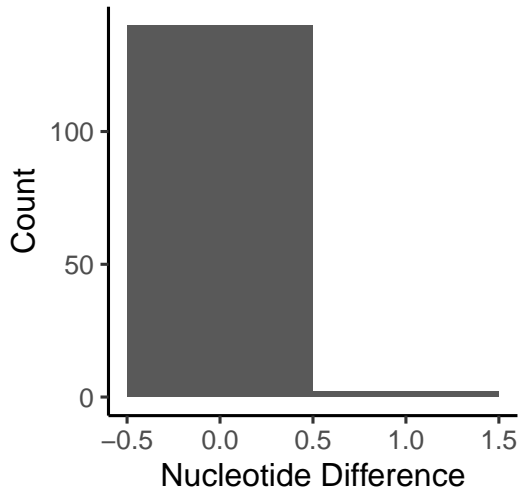
### TRBV11–2\*ap01

1589 sequences assigned  
1572 (98.9%) exact matches, in which:  
1555 unique CDR3  
13 unique J



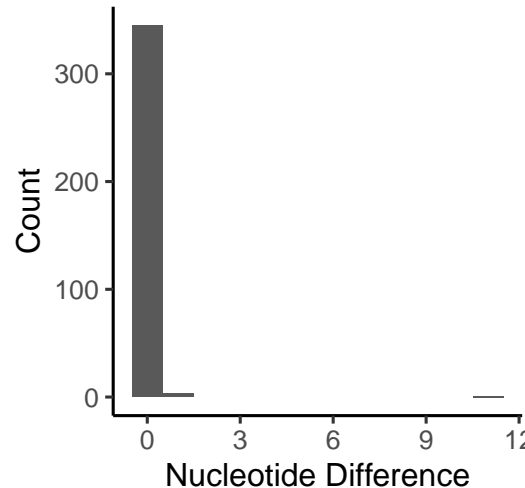
### TRBV12–2\*ap01

142 sequences assigned  
140 (98.6%) exact matches, in which:  
140 unique CDR3  
13 unique J



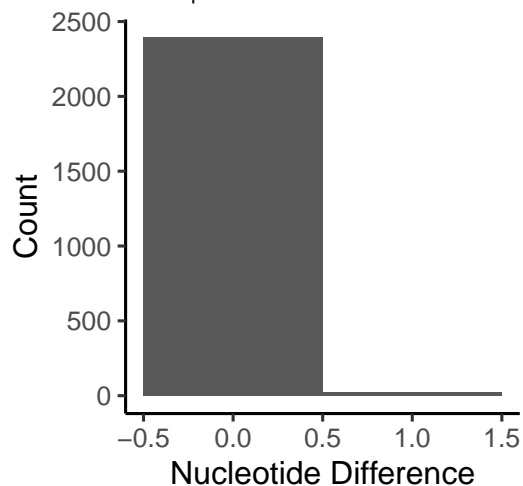
### TRBV23–1\*ap01

349 sequences assigned  
345 (98.9%) exact matches, in which:  
343 unique CDR3  
13 unique J



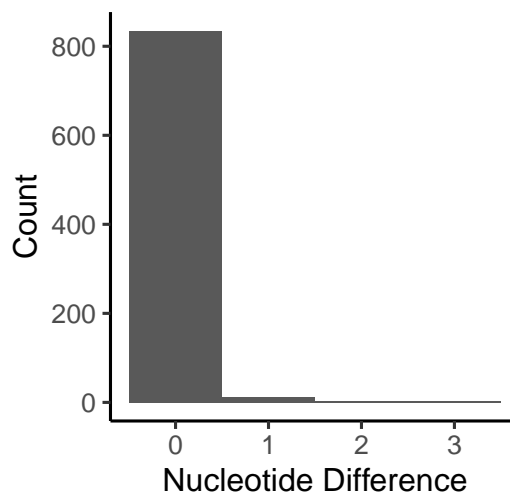
### TRBV3-12\*ap01

2418 sequences assigned  
2394 (99%) exact matches, in which:  
2361 unique CDR3  
13 unique J



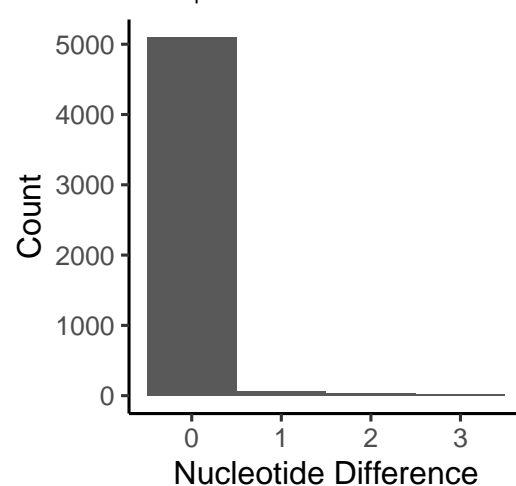
### TRBV4-2\*ap01

854 sequences assigned  
835 (97.8%) exact matches, in which:  
821 unique CDR3  
13 unique J



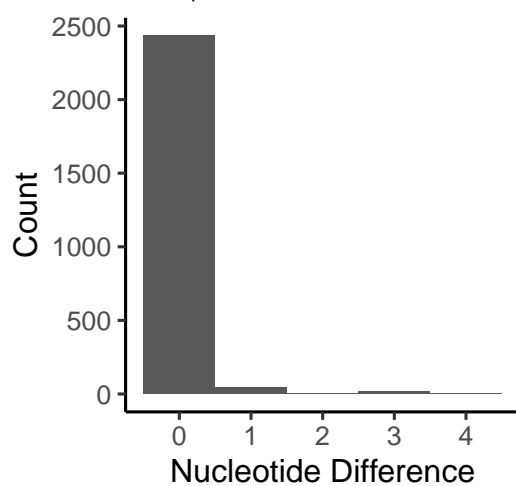
### TRBV5-1\*ap01

5217 sequences assigned  
5097 (97.7%) exact matches, in which:  
4961 unique CDR3  
13 unique J



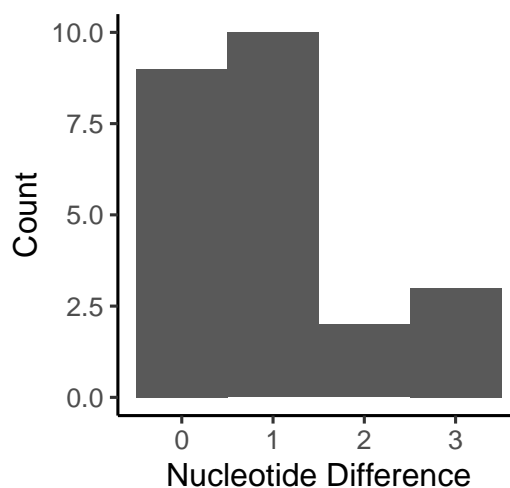
### TRBV4-1\*ap01

2500 sequences assigned  
2434 (97.4%) exact matches, in which:  
2370 unique CDR3  
13 unique J



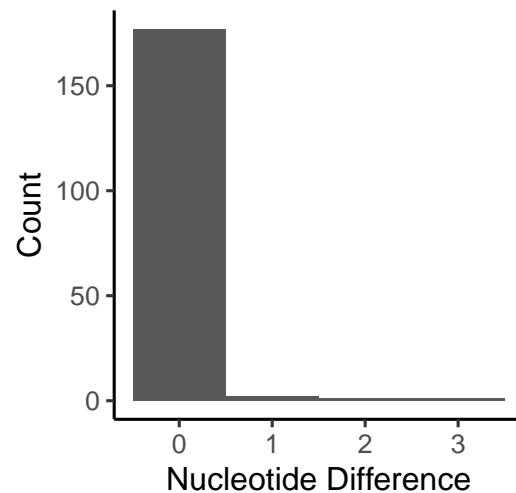
### TRBV4-3\*ap01

24 sequences assigned  
9 (37.5%) exact matches, in which:  
9 unique CDR3  
5 unique J



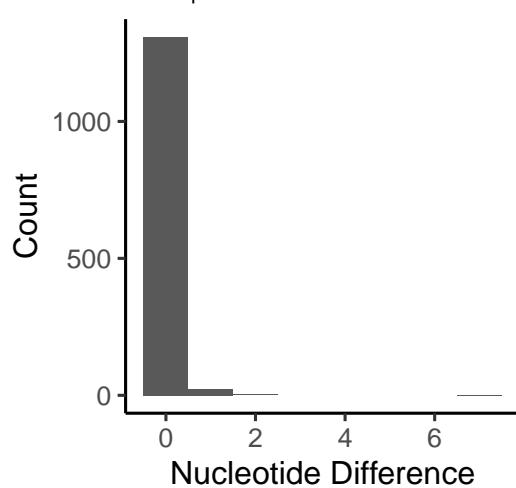
### TRBV5-3\*ap01

181 sequences assigned  
177 (97.8%) exact matches, in which:  
173 unique CDR3  
13 unique J



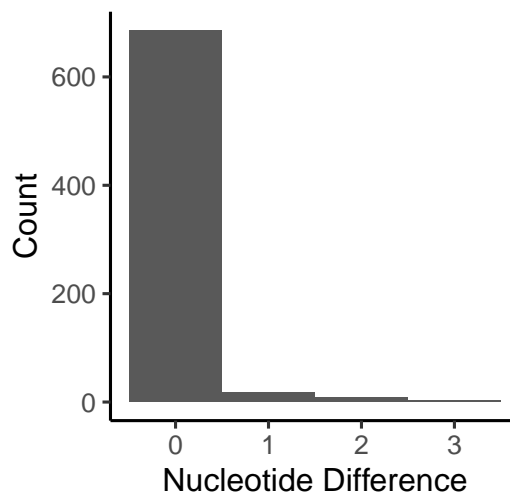
### TRBV24-1\*ap01

1334 sequences assigned  
1308 (98.1%) exact matches, in which:  
1278 unique CDR3  
13 unique J



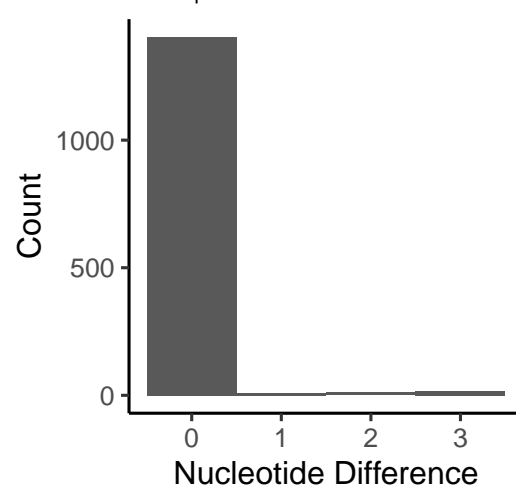
### TRBV25-1\*ap01

714 sequences assigned  
686 (96.1%) exact matches, in which:  
672 unique CDR3  
13 unique J



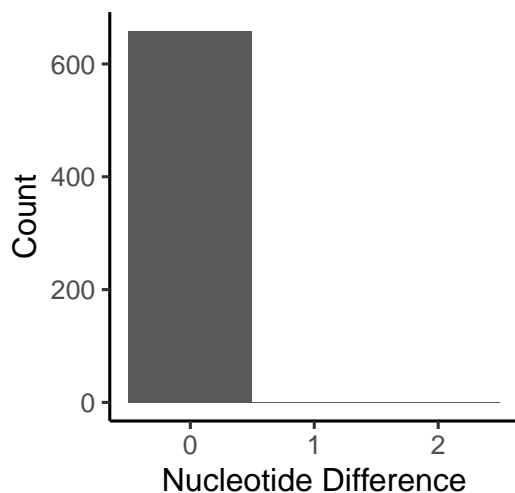
### TRBV5-4\*ap01

1443 sequences assigned  
1404 (97.3%) exact matches, in which:  
1380 unique CDR3  
13 unique J



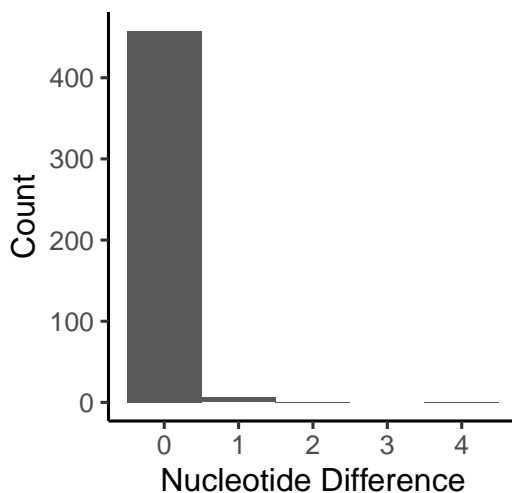
### TRBV5-5\*ap01

661 sequences assigned  
659 (99.7%) exact matches, in which:  
655 unique CDR3  
12 unique J



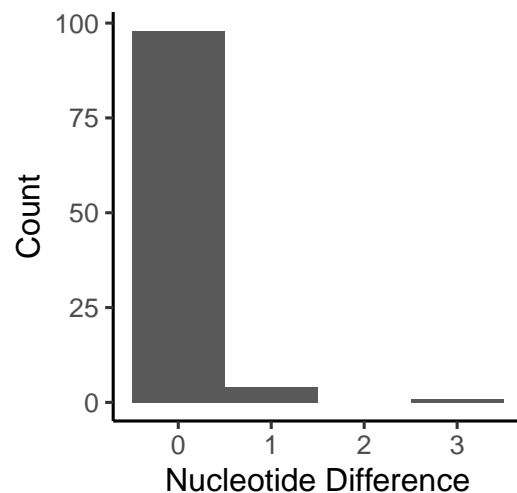
### TRBV5-8\*ap01

466 sequences assigned  
458 (98.3%) exact matches, in which:  
448 unique CDR3  
13 unique J



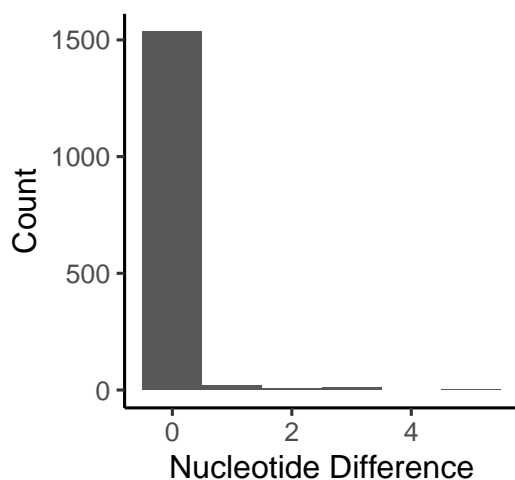
### TRBV6-7\*ap01

103 sequences assigned  
98 (95.1%) exact matches, in which:  
94 unique CDR3  
13 unique J



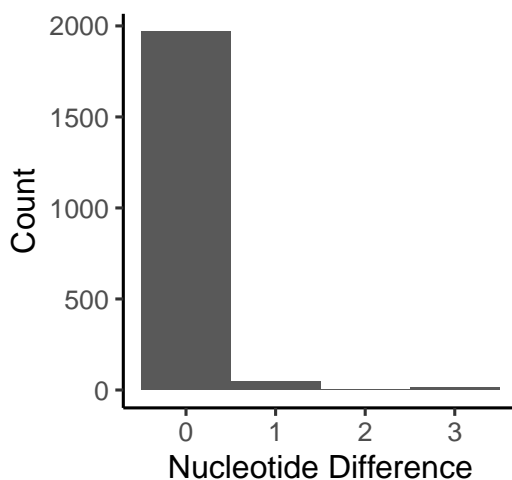
### TRBV5-6\*ap01

1572 sequences assigned  
1535 (97.6%) exact matches, in which:  
1492 unique CDR3  
13 unique J



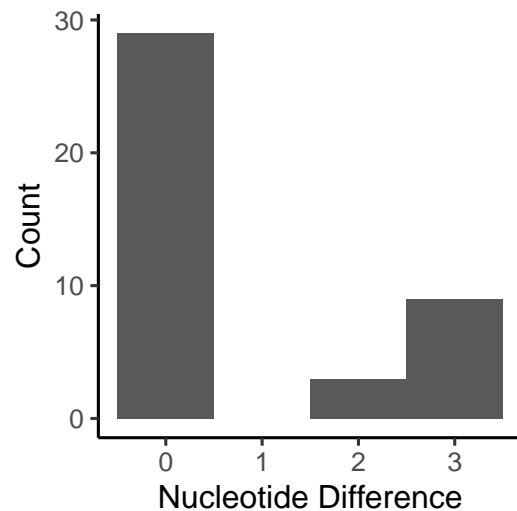
### TRBV6-1\*ap01

2035 sequences assigned  
1968 (96.7%) exact matches, in which:  
1915 unique CDR3  
13 unique J



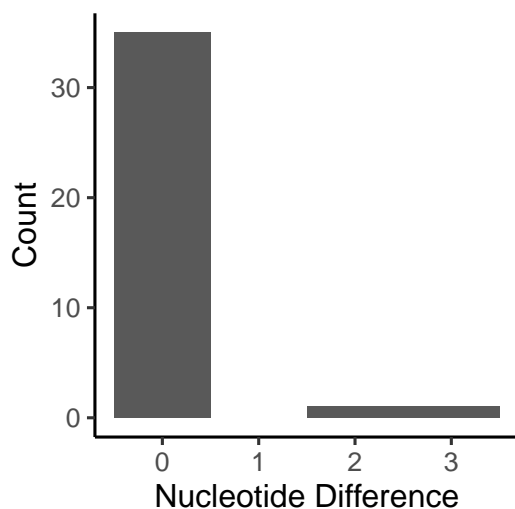
### TRBV6-8\*ap01

41 sequences assigned  
29 (70.7%) exact matches, in which:  
28 unique CDR3  
8 unique J



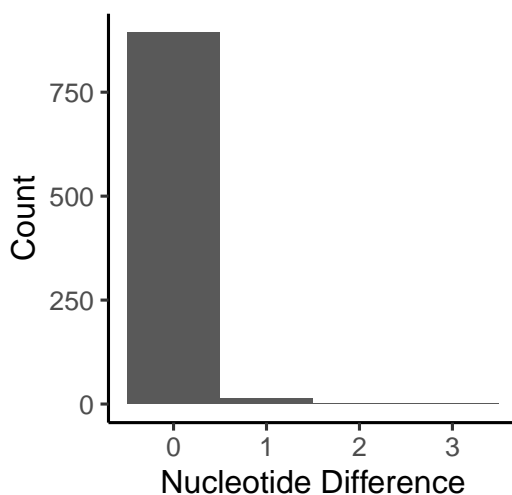
### TRBV5-7\*ap01

37 sequences assigned  
35 (94.6%) exact matches, in which:  
34 unique CDR3  
11 unique J



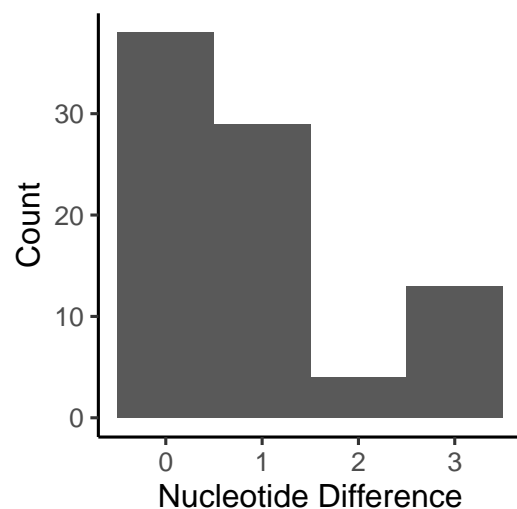
### TRBV6-4\*ap01

911 sequences assigned  
894 (98.1%) exact matches, in which:  
887 unique CDR3  
13 unique J



### TRBV6-9\*ap01

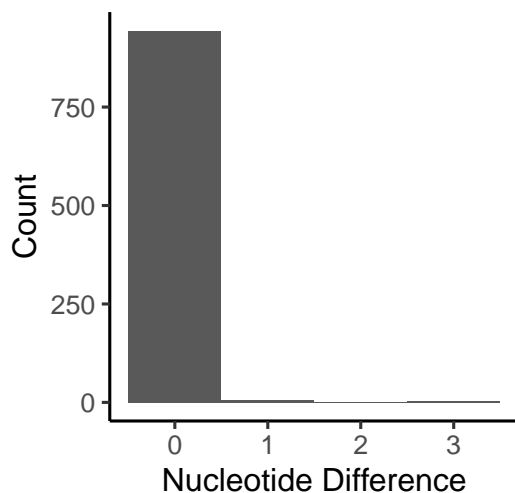
84 sequences assigned  
38 (45.2%) exact matches, in which:  
36 unique CDR3  
11 unique J





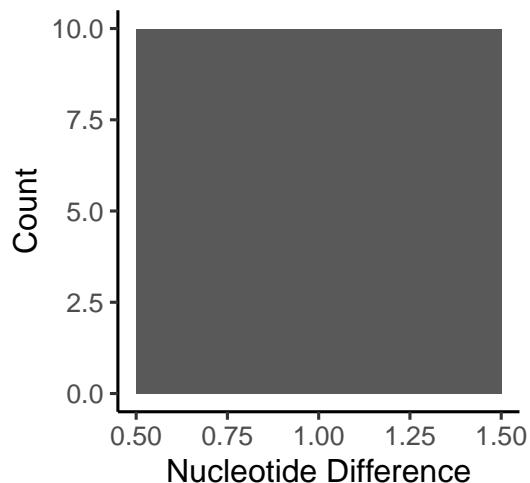
### TRBV6–23\*ap01

955 sequences assigned  
944 (98.8%) exact matches, in which:  
922 unique CDR3  
13 unique J



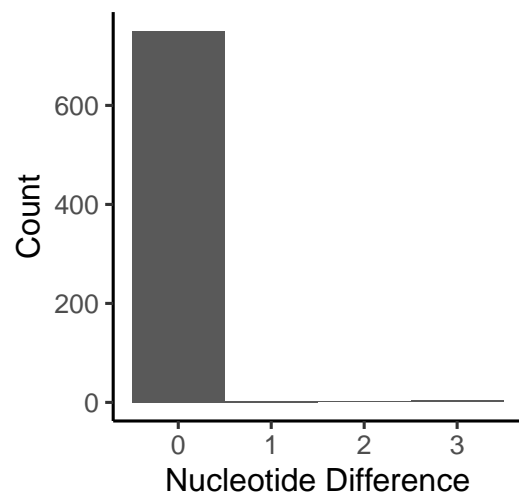
### TRBV7–1\*ap01\_T296C

10 sequences assigned  
No exact matches.



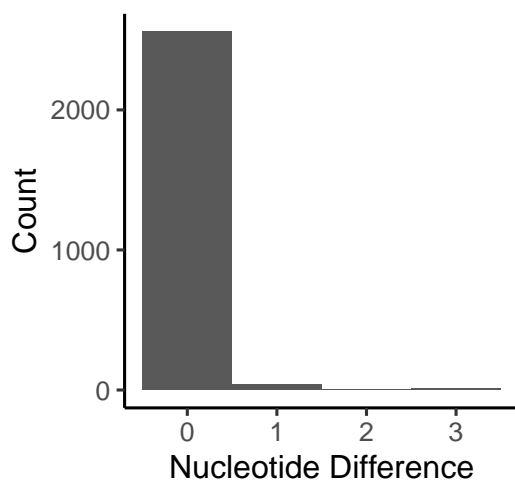
### TRBV7–3\*ap01

760 sequences assigned  
751 (98.8%) exact matches, in which:  
742 unique CDR3  
13 unique J



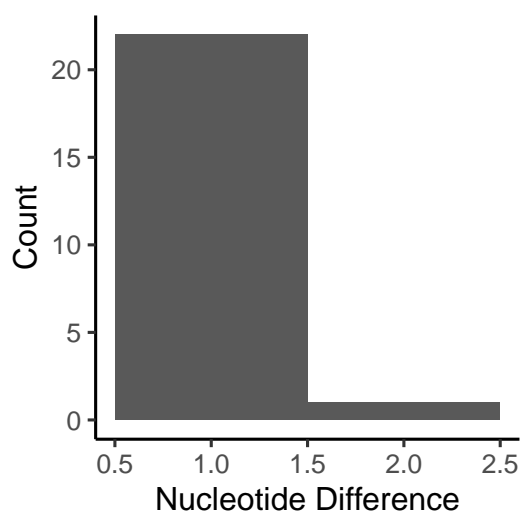
### TRBV6–56\*ap01

2612 sequences assigned  
2558 (97.9%) exact matches, in which:  
2499 unique CDR3  
13 unique J



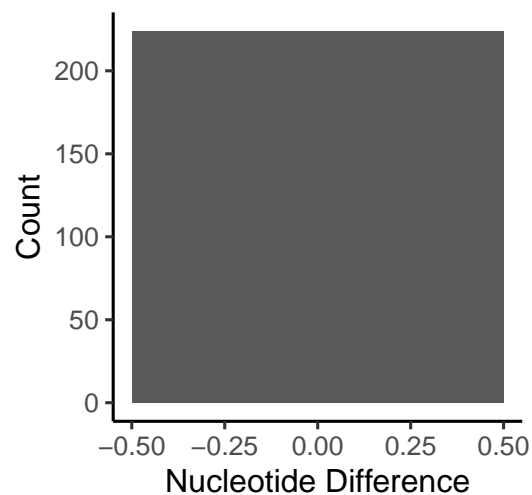
### TRBV7–1\*ap01\_T296C\_C

23 sequences assigned  
No exact matches.



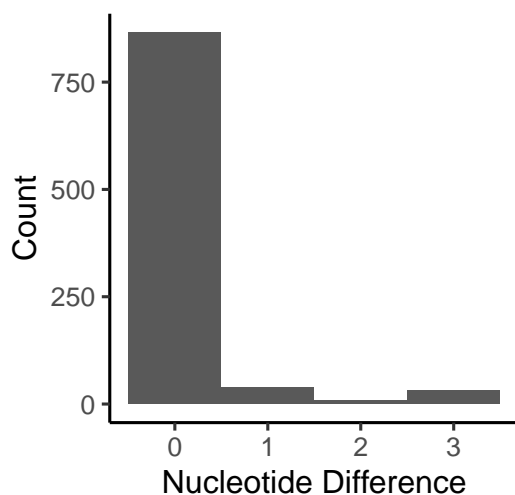
### TRBV7–3\*ap03

224 sequences assigned  
224 (100%) exact matches, in which:  
216 unique CDR3  
13 unique J



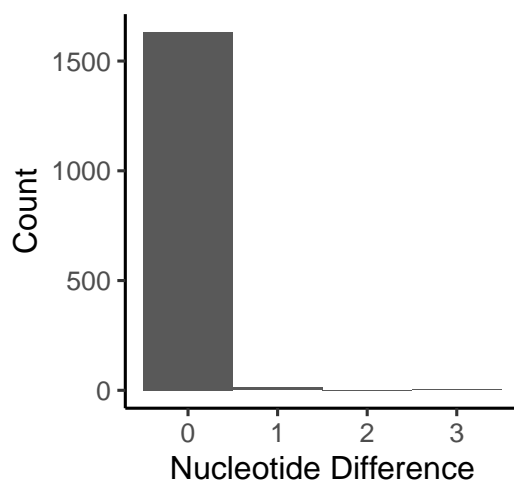
### TRBV6–56\*ap02

945 sequences assigned  
866 (91.6%) exact matches, in which:  
837 unique CDR3  
13 unique J



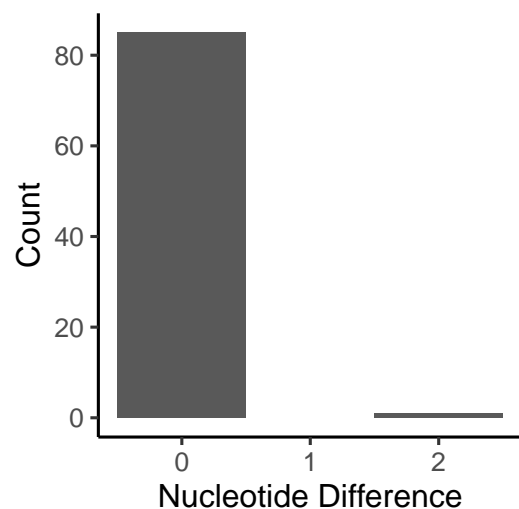
### TRBV7–2\*ap01

1651 sequences assigned  
1632 (98.8%) exact matches, in which:  
1604 unique CDR3  
13 unique J



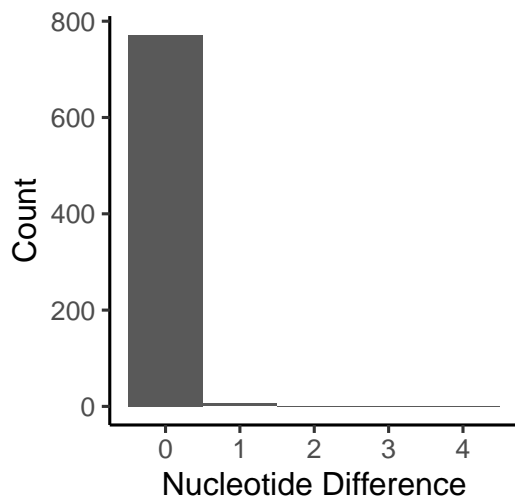
### TRBV7–4\*ap01

86 sequences assigned  
85 (98.8%) exact matches, in which:  
82 unique CDR3  
13 unique J



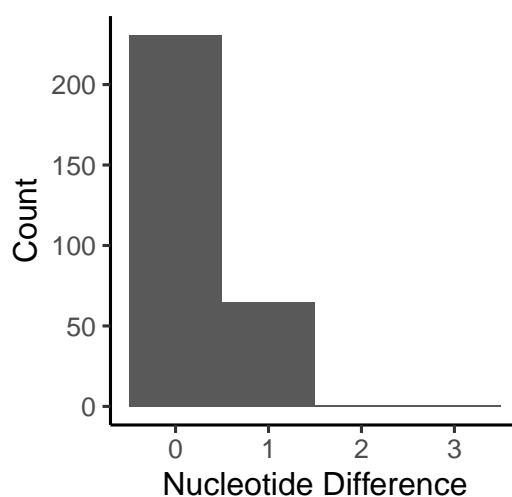
### TRBV7-6\*ap01

781 sequences assigned  
772 (98.8%) exact matches, in which:  
760 unique CDR3  
13 unique J



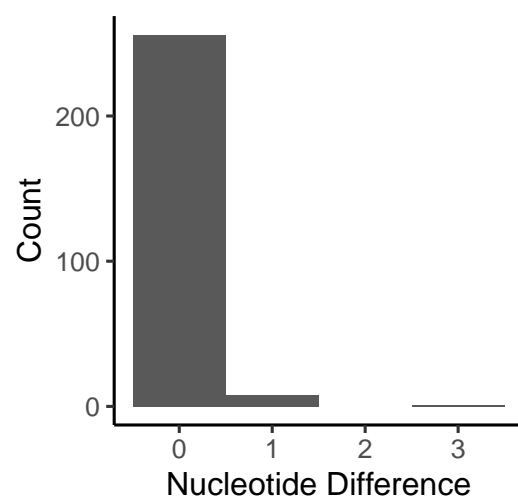
### TRBV7-8\*ap03

298 sequences assigned  
231 (77.5%) exact matches, in which:  
225 unique CDR3  
13 unique J



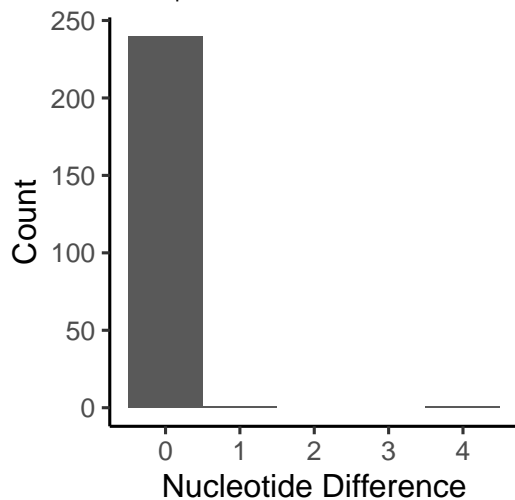
### TRBV29-1\*ap02

265 sequences assigned  
256 (96.6%) exact matches, in which:  
254 unique CDR3  
13 unique J



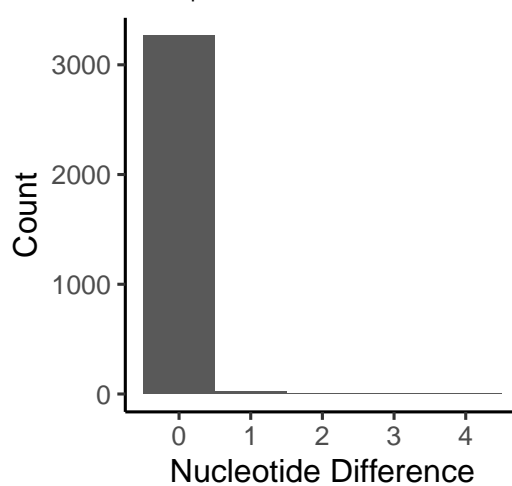
### TRBV7-7\*ap01

242 sequences assigned  
240 (99.2%) exact matches, in which:  
235 unique CDR3  
13 unique J



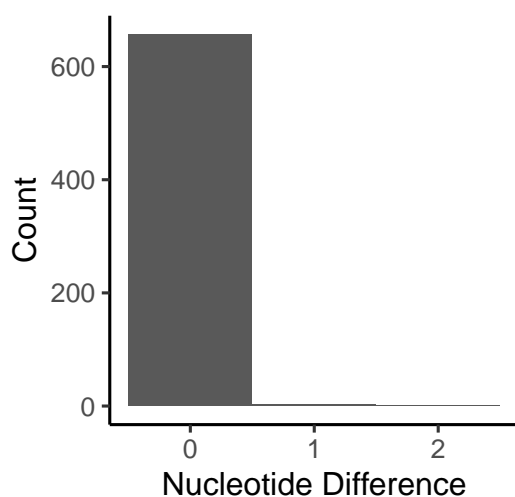
### TRBV7-9\*ap01

3305 sequences assigned  
3265 (98.8%) exact matches, in which:  
3212 unique CDR3  
13 unique J



### TRBV7-8\*ap01

661 sequences assigned  
657 (99.4%) exact matches, in which:  
648 unique CDR3  
13 unique J



### TRBV29-1\*ap01

1218 sequences assigned  
1179 (96.8%) exact matches, in which:  
1152 unique CDR3  
13 unique J

