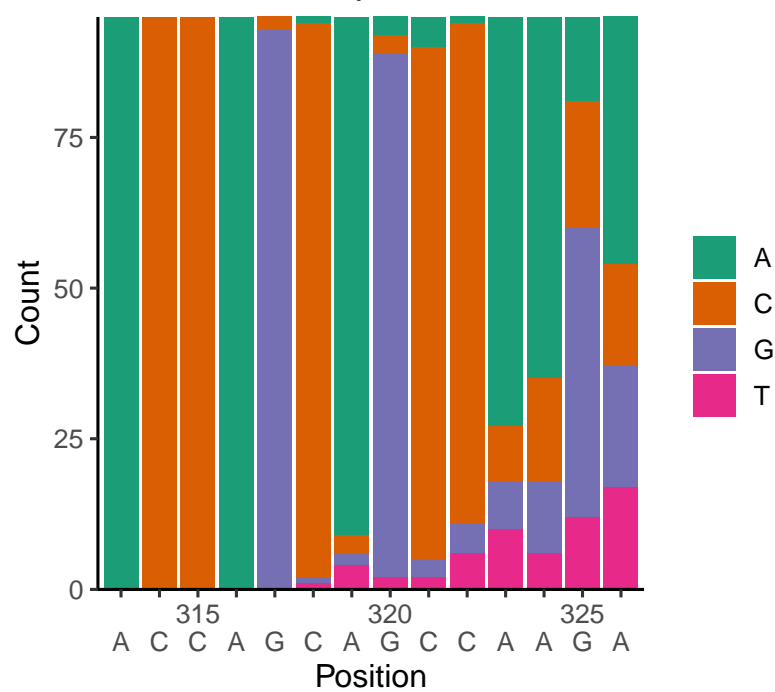
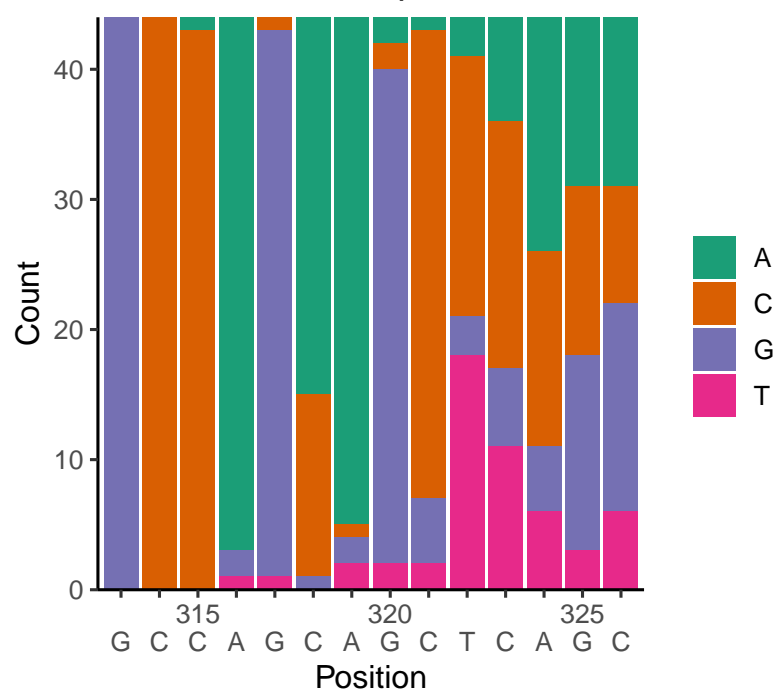


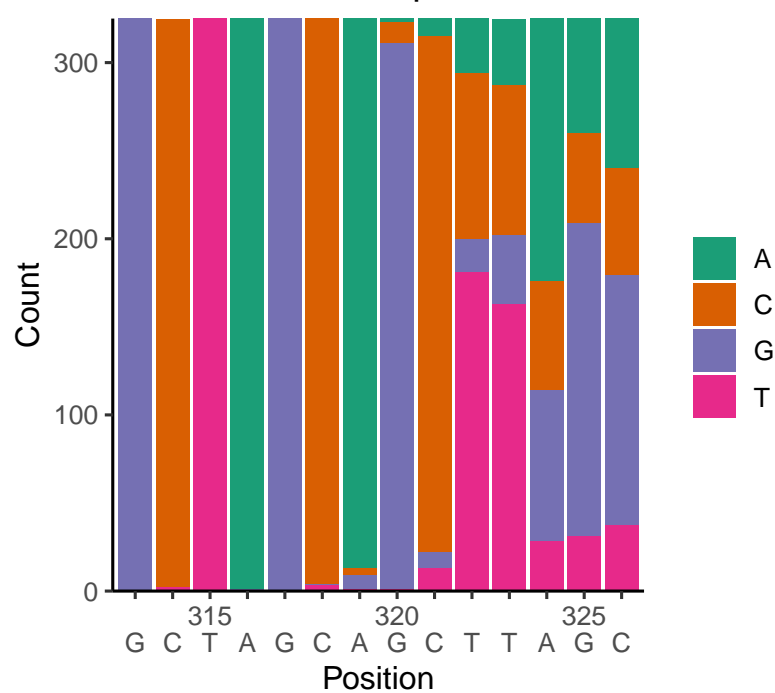
Gene TRBV1\*ap01\_G303A



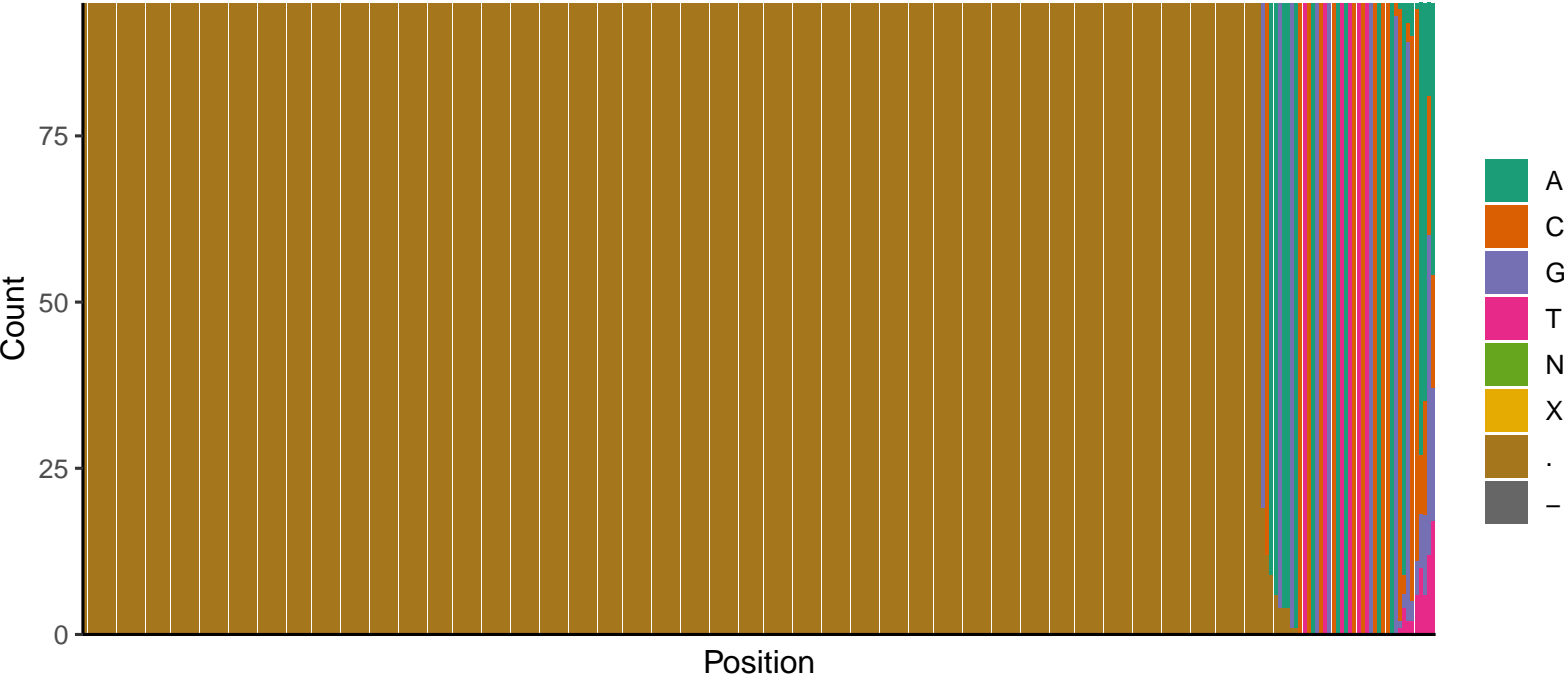
Gene TRBV7-1\*ap01\_T296C



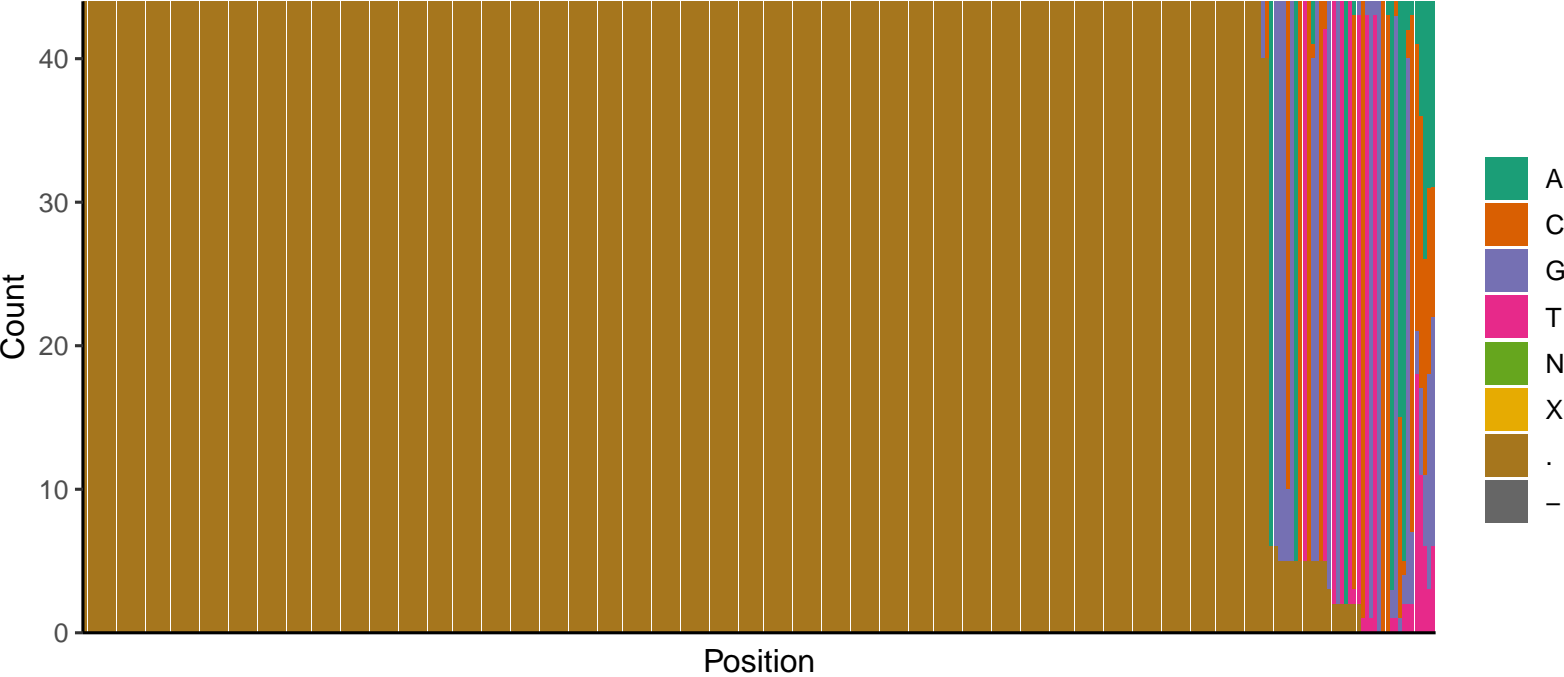
Gene TRBV7-7\*ap01\_C315T



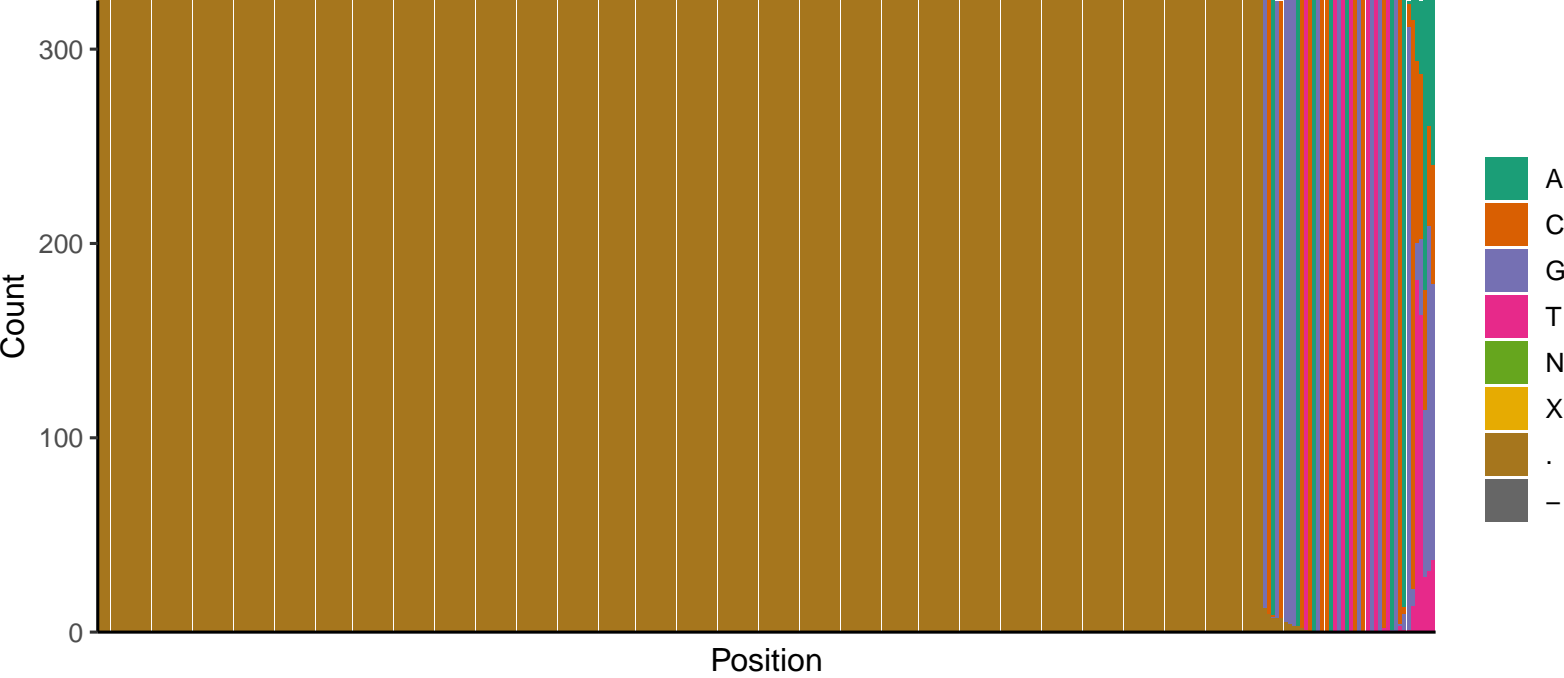
Gene TRBV1\*ap01\_G303A



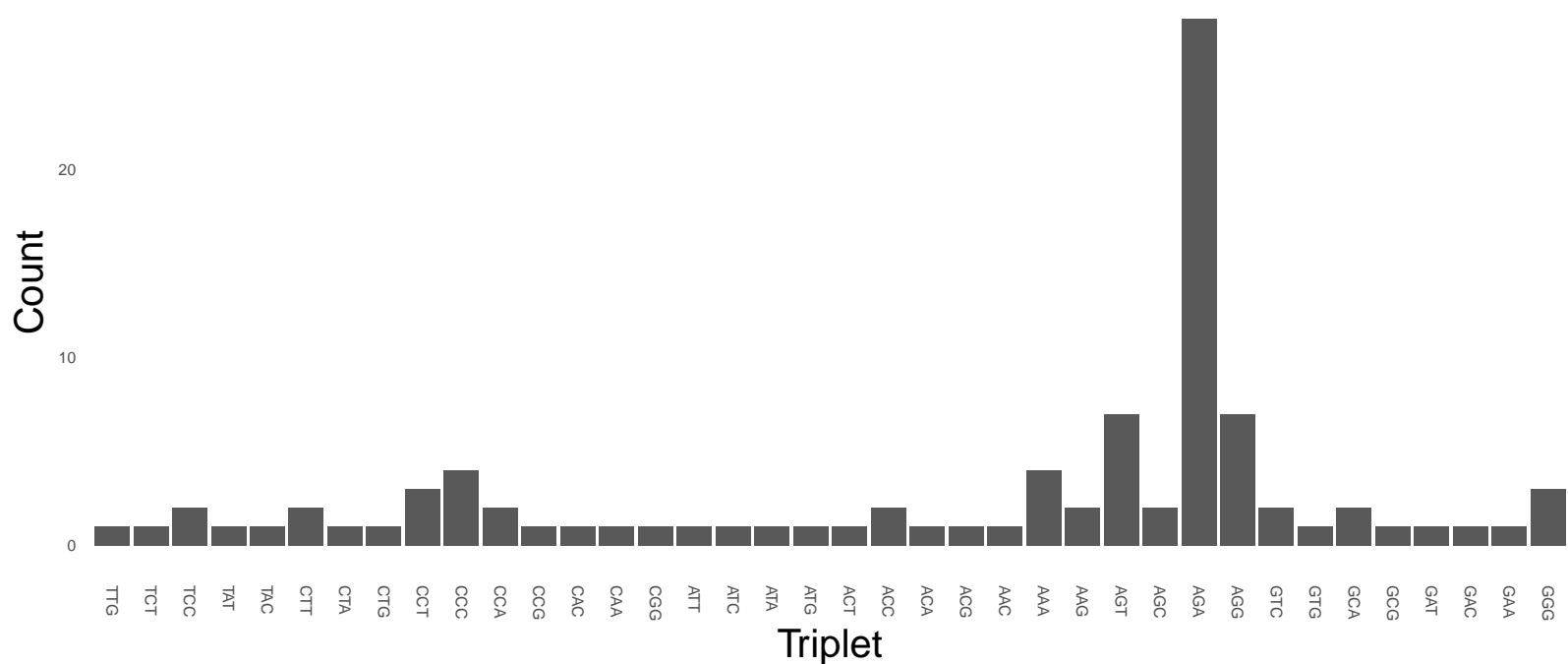
Gene TRBV7-1\*ap01\_T296C



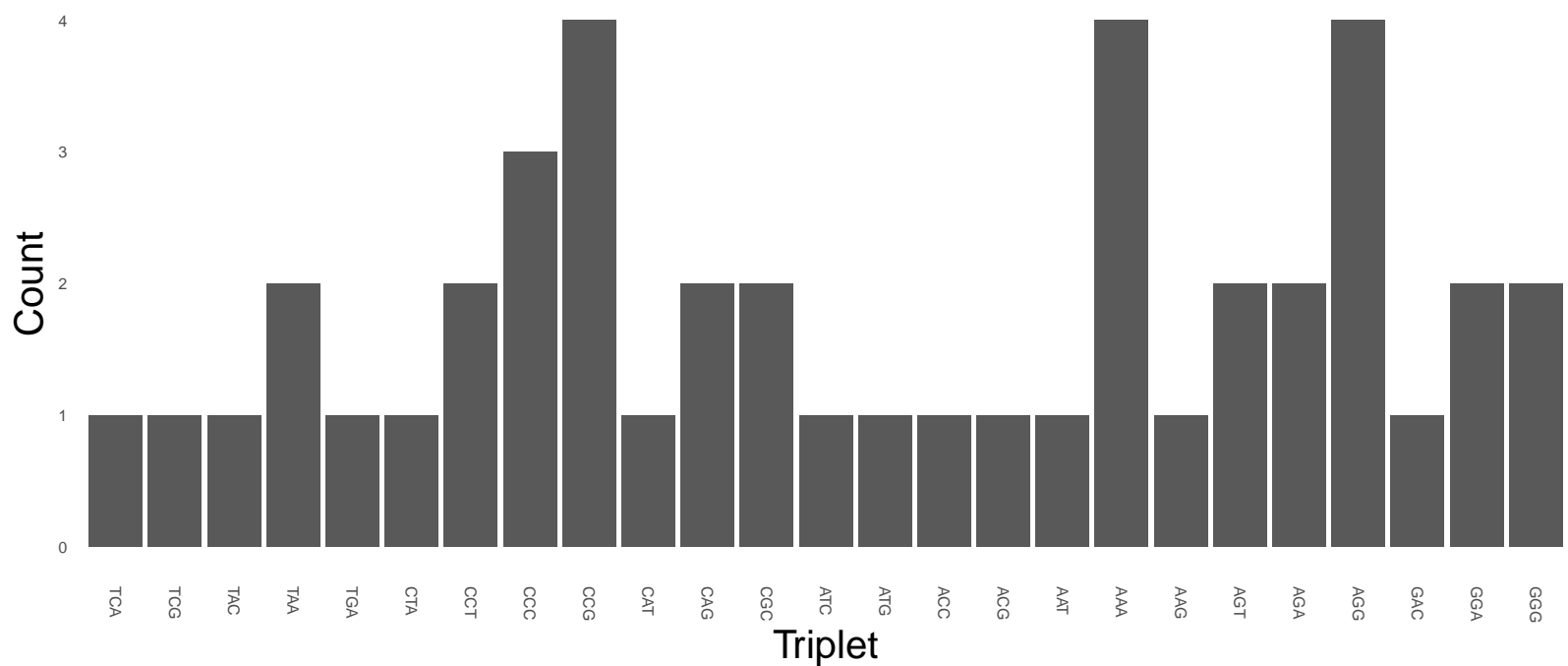
Gene TRBV7-7\*ap01\_C315T



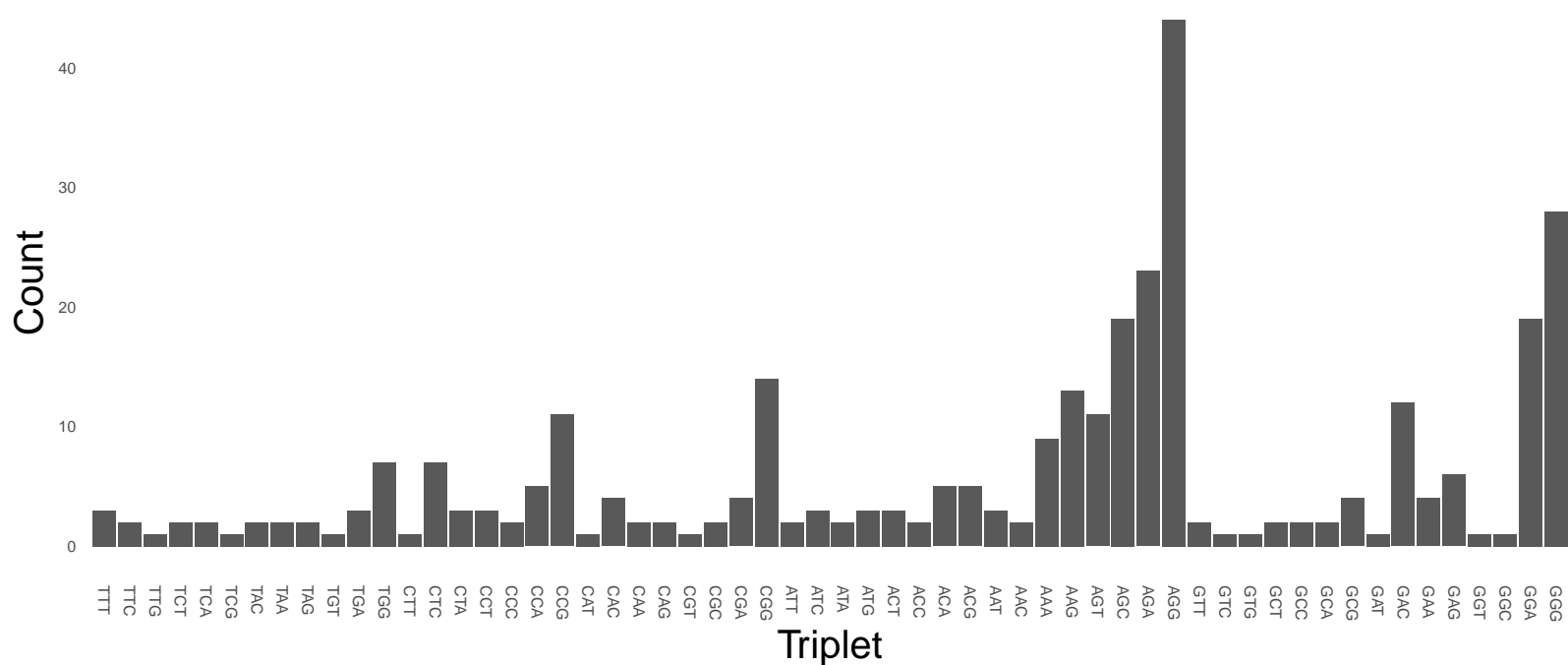
TRBV1\*ap01\_G303A– Final 3 nucleotides as a triplet



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

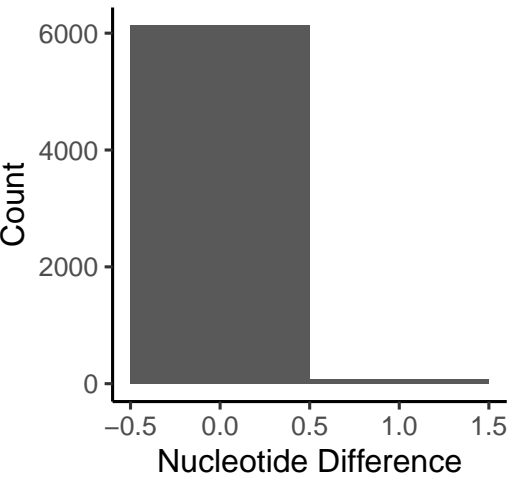


TRBV7-7\*ap01\_C315T– Final 3 nucleotides as a triplet



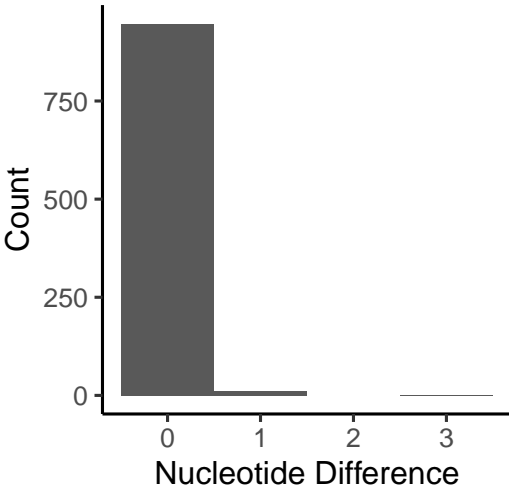
TRBV20–1\*ap01

6208 sequences assigned  
6133 (98.8%) exact matches, in which:  
6010 unique CDR3  
13 unique J



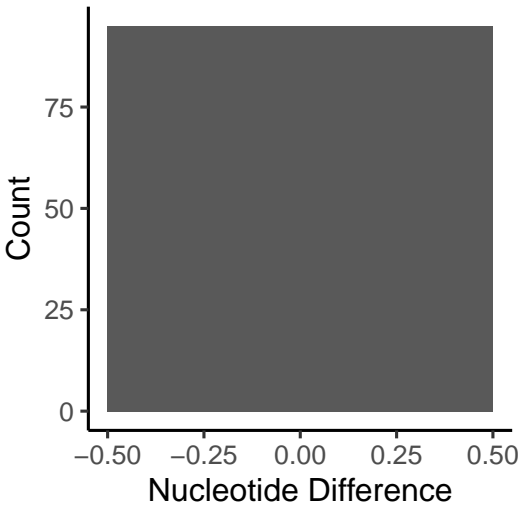
TRBV10–2\*ap01

960 sequences assigned  
947 (98.6%) exact matches, in which:  
921 unique CDR3  
13 unique J



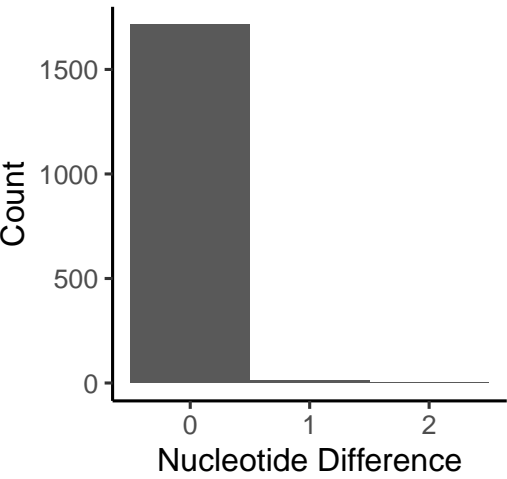
TRBV1\*ap01\_G303A

95 sequences assigned  
95 (100%) exact matches, in which:  
92 unique CDR3  
12 unique J



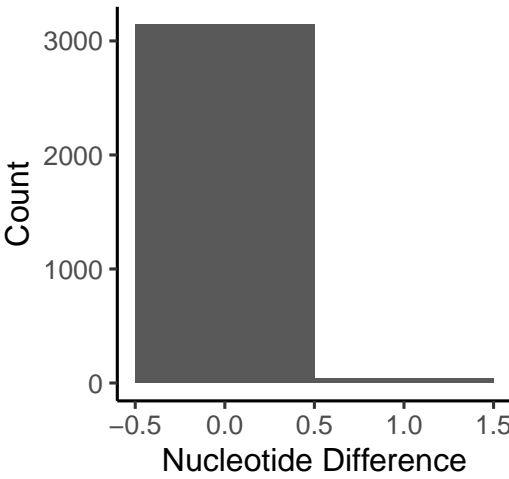
TRBV10–1\*ap01

1728 sequences assigned  
1714 (99.2%) exact matches, in which:  
1667 unique CDR3  
13 unique J



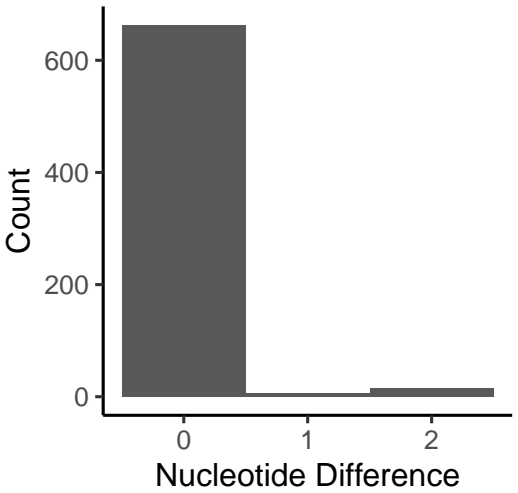
TRBV10–3\*ap01

3180 sequences assigned  
3142 (98.8%) exact matches, in which:  
3077 unique CDR3  
13 unique J



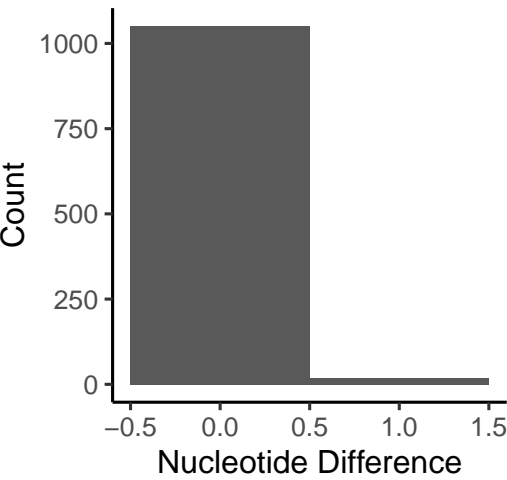
TRBV13\*ap01

685 sequences assigned  
663 (96.8%) exact matches, in which:  
644 unique CDR3  
13 unique J



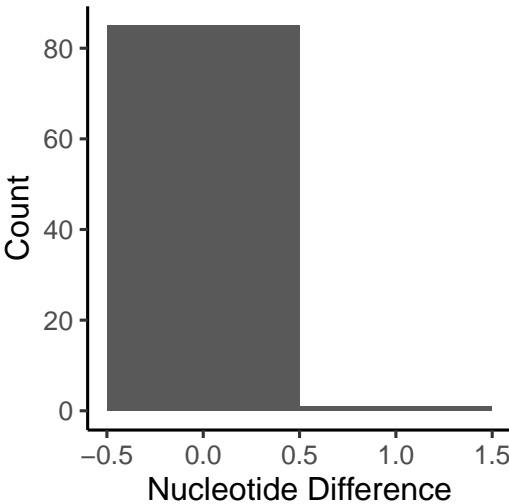
TRBV20–1\*ap02

1070 sequences assigned  
1051 (98.2%) exact matches, in which:  
1037 unique CDR3  
13 unique J



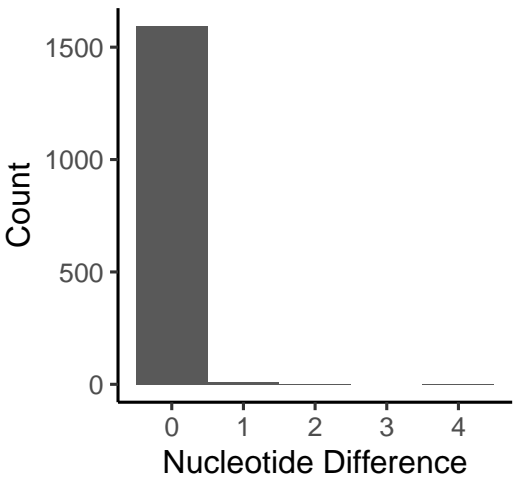
TRBV1\*ap01

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



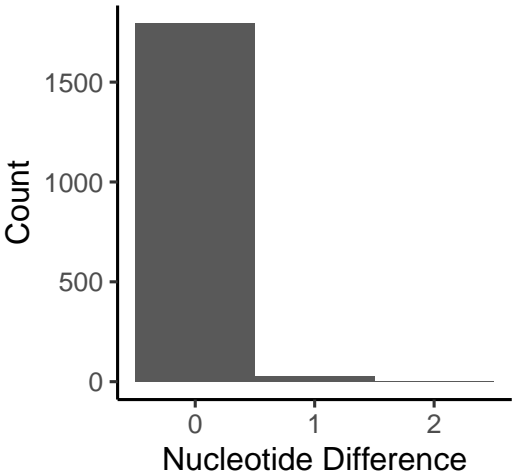
TRBV14\*ap01

1607 sequences assigned  
1594 (99.2%) exact matches, in which:  
1573 unique CDR3  
13 unique J



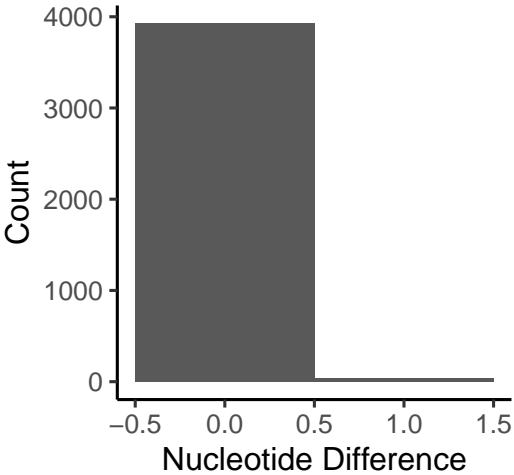
TRBV15\*ap02

1823 sequences assigned  
1794 (98.4%) exact matches, in which:  
1750 unique CDR3  
13 unique J



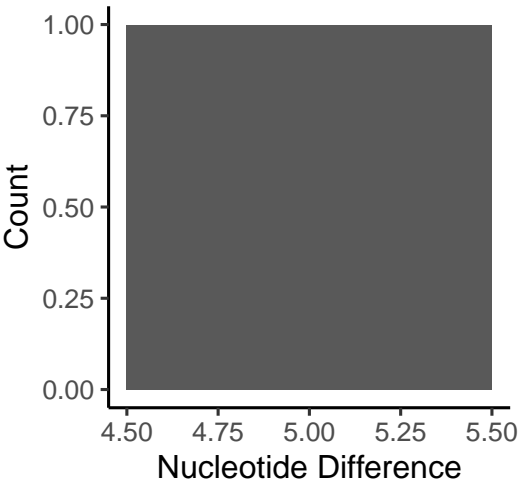
TRBV18\*ap01

3963 sequences assigned  
3927 (99.1%) exact matches, in which:  
3863 unique CDR3  
13 unique J



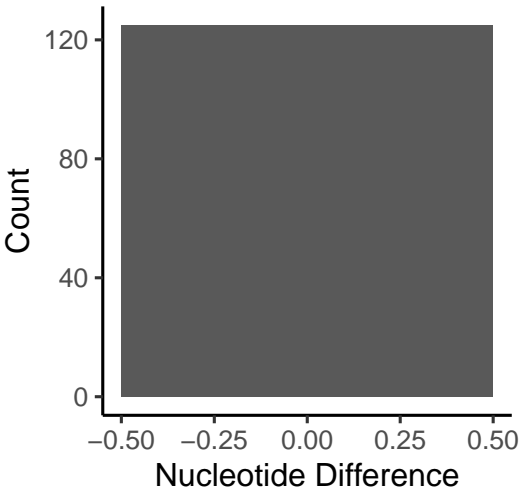
TRBV26\*ap01

1 sequences assigned  
No exact matches.



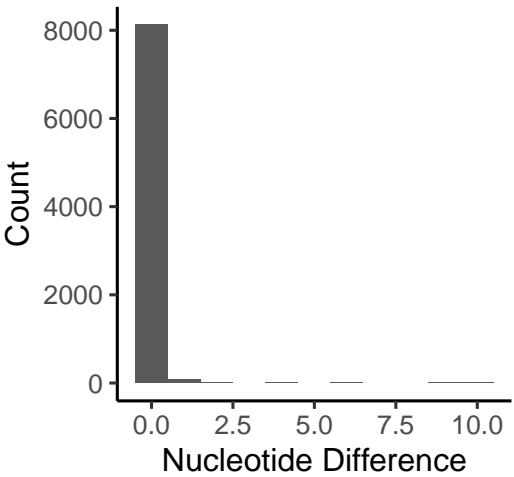
TRBV16\*ap01

125 sequences assigned  
125 (100%) exact matches, in which:  
125 unique CDR3  
12 unique J



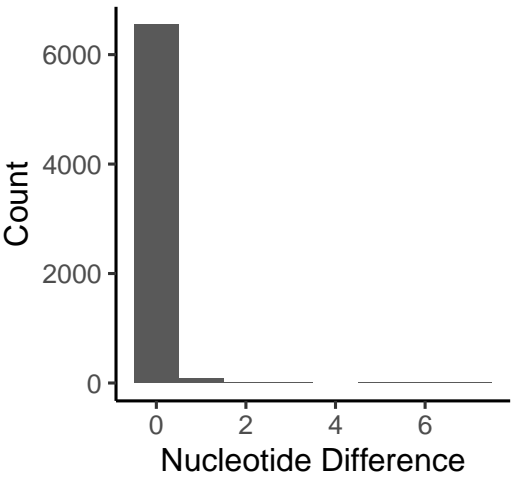
TRBV19\*ap01

8216 sequences assigned  
8126 (98.9%) exact matches, in which:  
7997 unique CDR3  
13 unique J



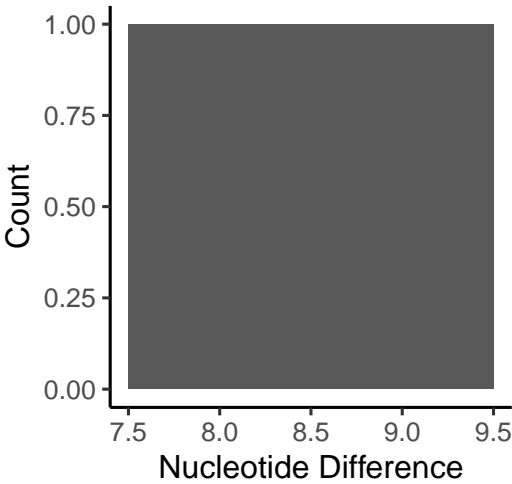
TRBV27\*ap01

6643 sequences assigned  
6546 (98.5%) exact matches, in which:  
6376 unique CDR3  
13 unique J



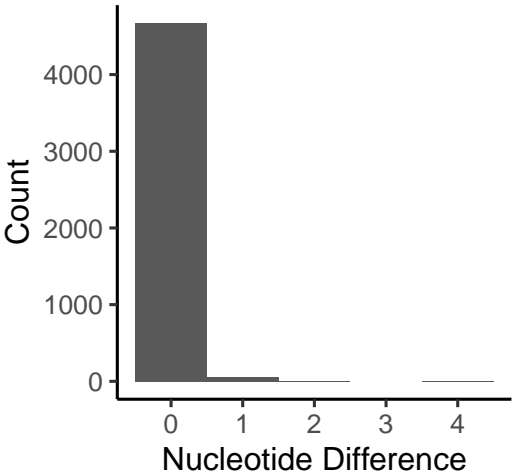
TRBV17\*ap01

2 sequences assigned  
No exact matches.



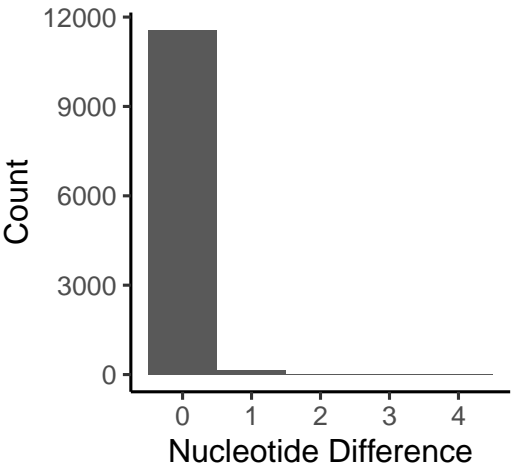
TRBV2\*ap01

4734 sequences assigned  
4672 (98.7%) exact matches, in which:  
4583 unique CDR3  
13 unique J



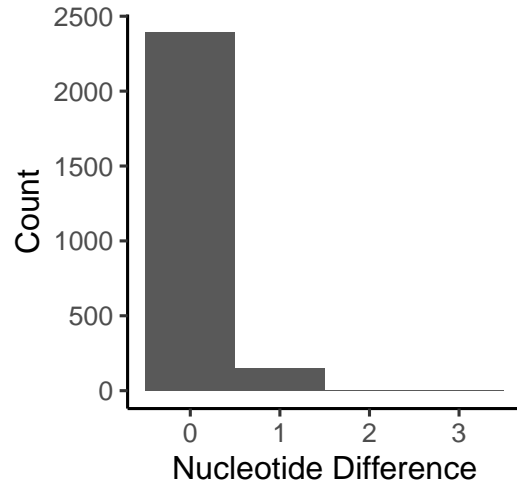
TRBV28\*ap01

11723 sequences assigned  
11573 (98.7%) exact matches, in which:  
11297 unique CDR3  
13 unique J



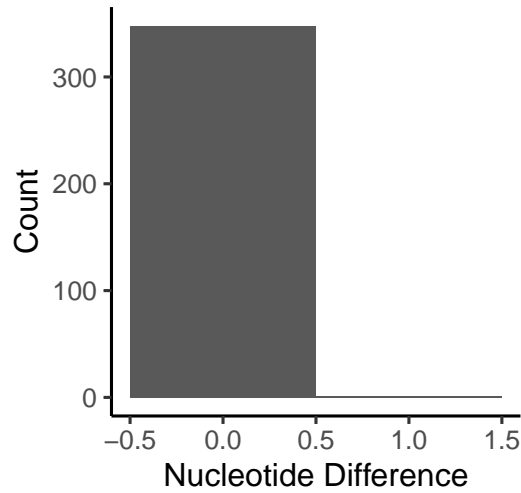
### TRBV30\*ap01

2545 sequences assigned  
2392 (94%) exact matches, in which:  
2368 unique CDR3  
13 unique J



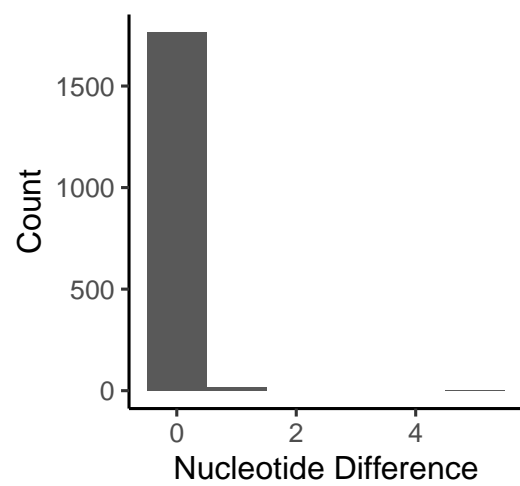
### TRBV11-1\*ap01

349 sequences assigned  
348 (99.7%) exact matches, in which:  
337 unique CDR3  
13 unique J



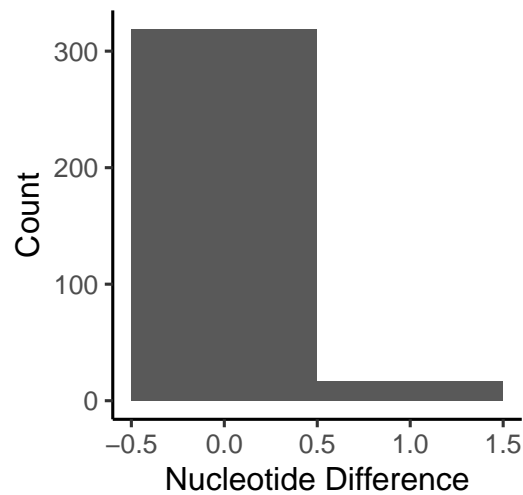
### TRBV11-3\*ap01

1784 sequences assigned  
1764 (98.9%) exact matches, in which:  
1726 unique CDR3  
13 unique J



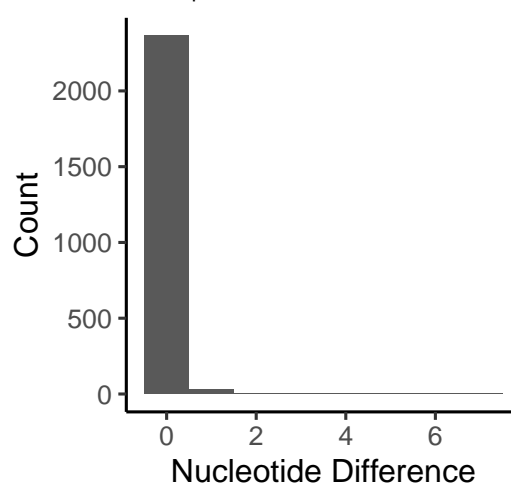
### TRBV30\*ap03

336 sequences assigned  
319 (94.9%) exact matches, in which:  
314 unique CDR3  
13 unique J



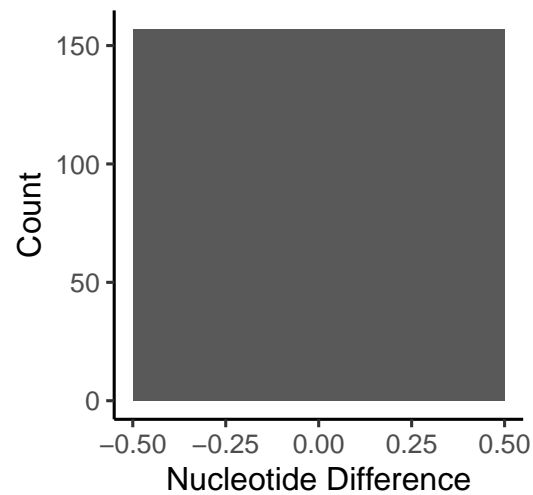
### TRBV21-1\*ap01

2408 sequences assigned  
2364 (98.2%) exact matches, in which:  
2314 unique CDR3  
13 unique J



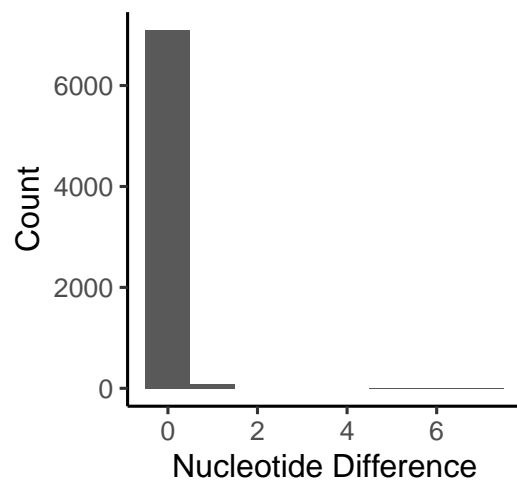
### TRBV12-1\*ap01

157 sequences assigned  
157 (100%) exact matches, in which:  
155 unique CDR3  
13 unique J



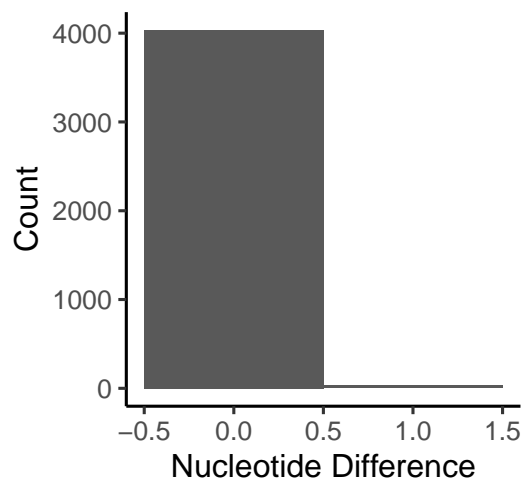
### TRBV9\*ap01

7188 sequences assigned  
7100 (98.8%) exact matches, in which:  
6957 unique CDR3  
13 unique J



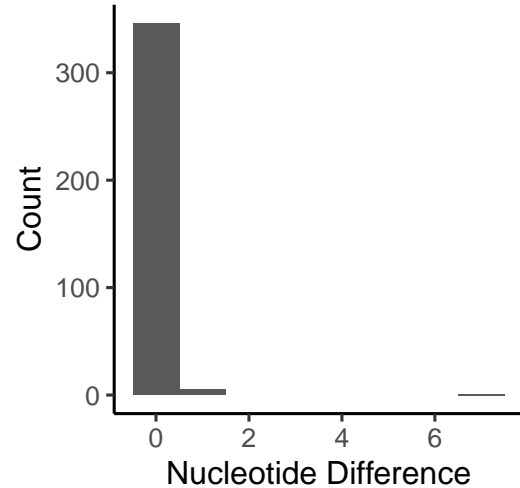
### TRBV11-2\*ap01

4067 sequences assigned  
4035 (99.2%) exact matches, in which:  
3946 unique CDR3  
13 unique J



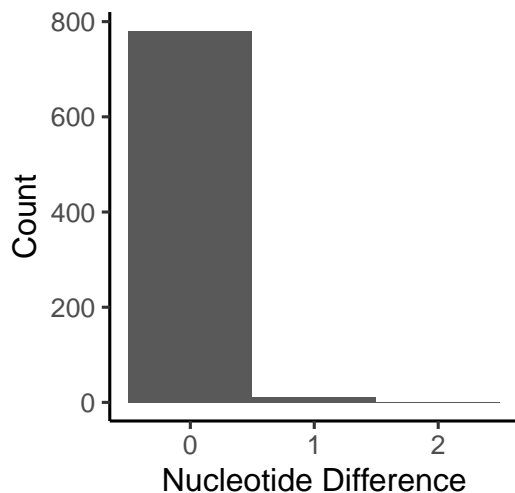
### TRBV12-2\*ap01

352 sequences assigned  
346 (98.3%) exact matches, in which:  
332 unique CDR3  
13 unique J



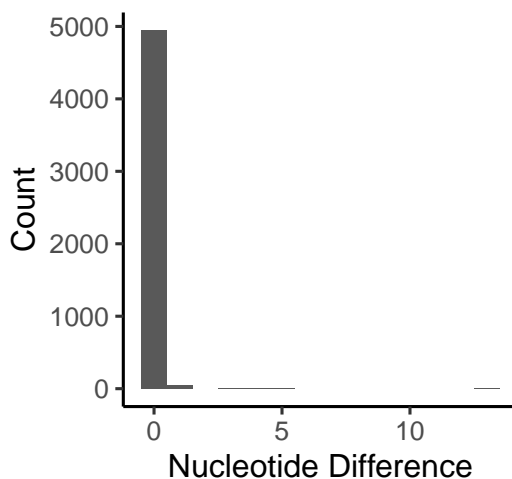
### TRBV12–5\*ap01

793 sequences assigned  
781 (98.5%) exact matches, in which:  
768 unique CDR3  
13 unique J



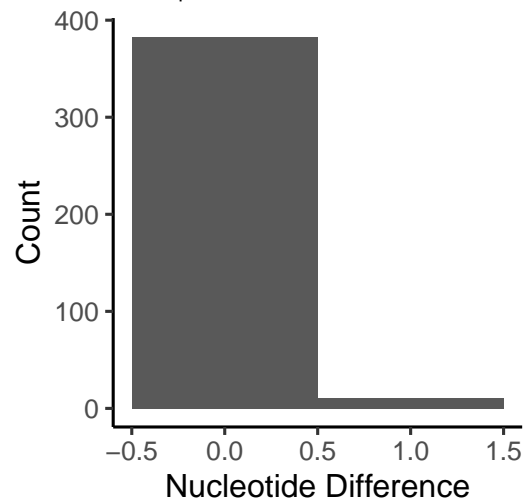
### TRBV3–12\*ap01

5007 sequences assigned  
4945 (98.8%) exact matches, in which:  
4856 unique CDR3  
13 unique J



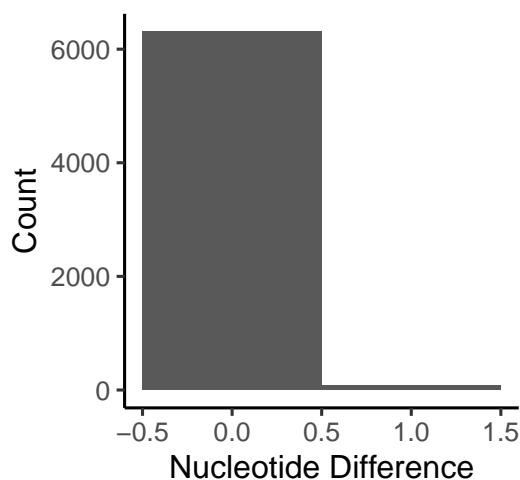
### TRBV4–2\*ap01

394 sequences assigned  
383 (97.2%) exact matches, in which:  
376 unique CDR3  
13 unique J



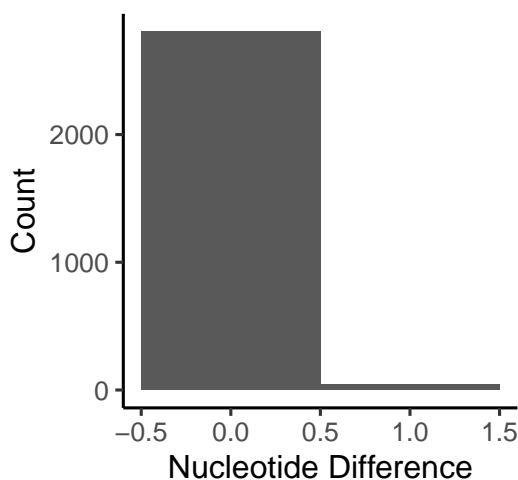
### TRBV12–34\*ap01

6381 sequences assigned  
6307 (98.8%) exact matches, in which:  
6152 unique CDR3  
13 unique J



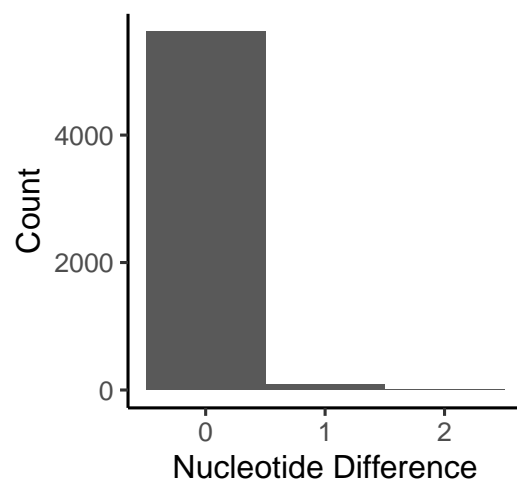
### TRBV4–1\*ap01

2845 sequences assigned  
2805 (98.6%) exact matches, in which:  
2751 unique CDR3  
13 unique J



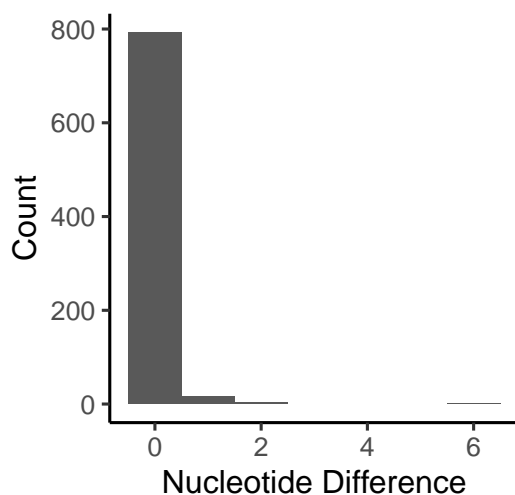
### TRBV4–3\*ap01

5708 sequences assigned  
5622 (98.5%) exact matches, in which:  
5514 unique CDR3  
13 unique J



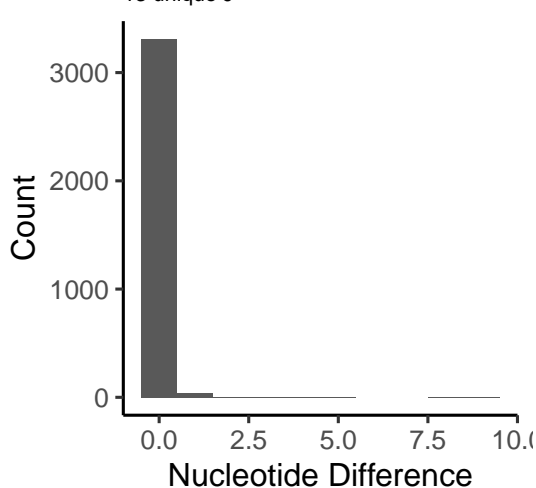
### TRBV23–1\*ap01

813 sequences assigned  
793 (97.5%) exact matches, in which:  
777 unique CDR3  
13 unique J



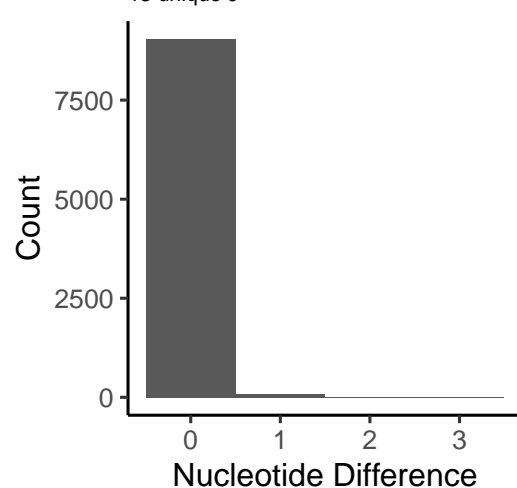
### TRBV24–1\*ap01

3356 sequences assigned  
3310 (98.6%) exact matches, in which:  
3269 unique CDR3  
13 unique J



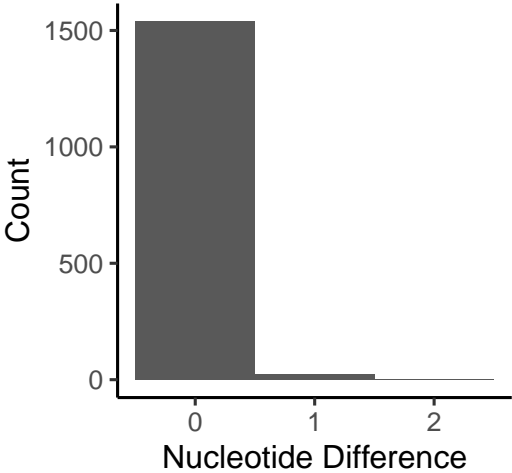
### TRBV5–1\*ap01

9138 sequences assigned  
9041 (98.9%) exact matches, in which:  
8812 unique CDR3  
13 unique J



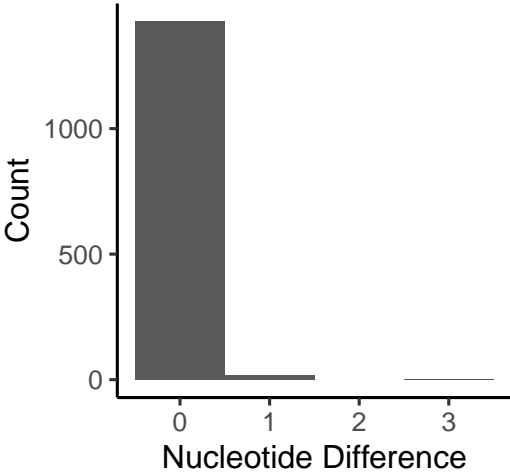
TRBV25-1\*ap01

1564 sequences assigned  
1539 (98.4%) exact matches, in which:  
1507 unique CDR3  
13 unique J



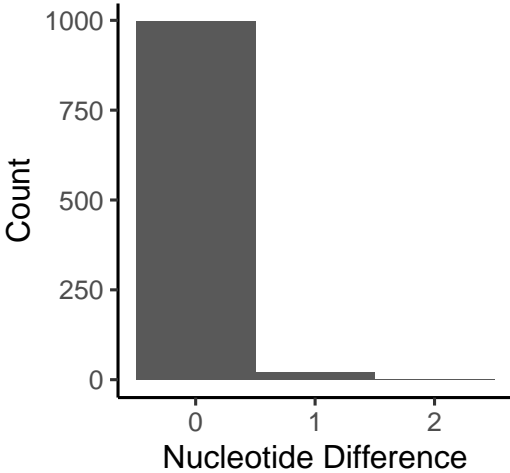
TRBV5-5\*ap01

1445 sequences assigned  
1427 (98.8%) exact matches, in which:  
1406 unique CDR3  
13 unique J



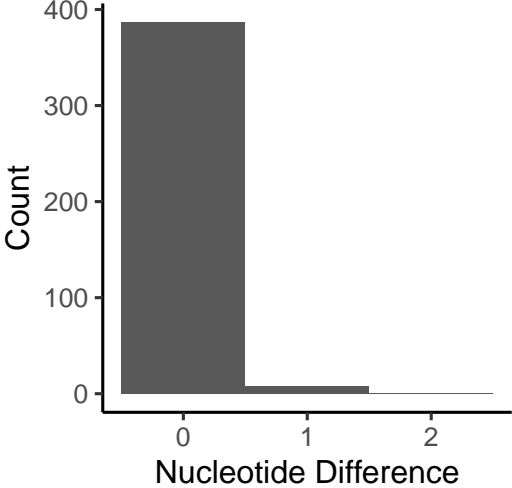
TRBV5-8\*ap01

1019 sequences assigned  
997 (97.8%) exact matches, in which:  
980 unique CDR3  
13 unique J



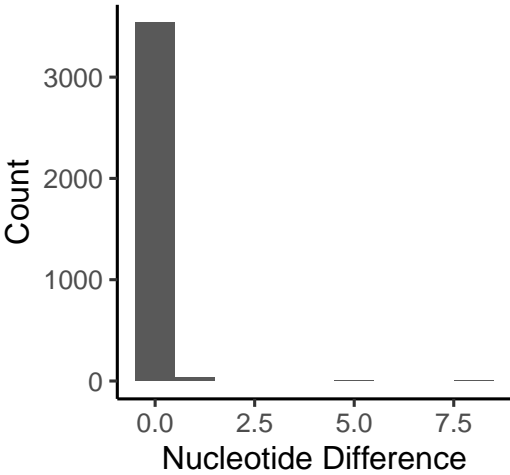
TRBV5-3\*ap01

396 sequences assigned  
387 (97.7%) exact matches, in which:  
380 unique CDR3  
13 unique J



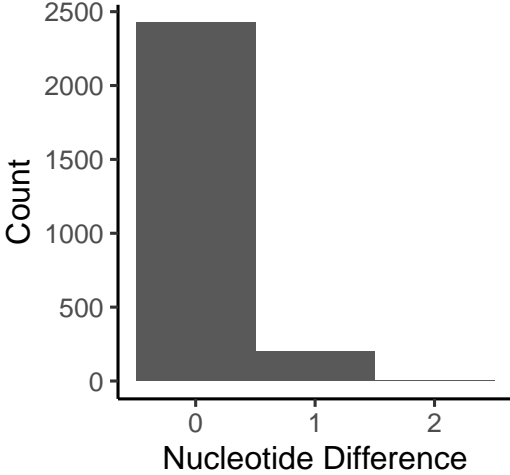
TRBV5-6\*ap01

3573 sequences assigned  
3537 (99%) exact matches, in which:  
3465 unique CDR3  
13 unique J



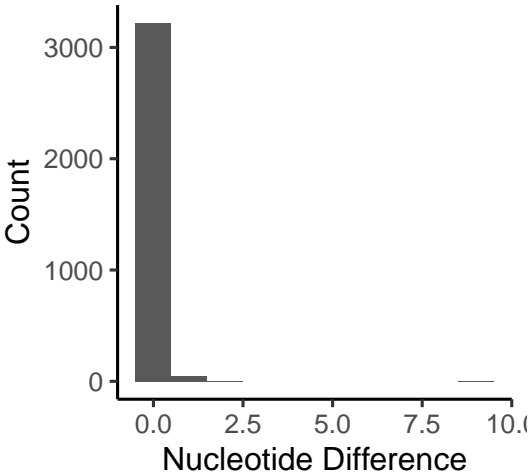
TRBV6-1\*ap01

2627 sequences assigned  
2425 (92.3%) exact matches, in which:  
2383 unique CDR3  
13 unique J



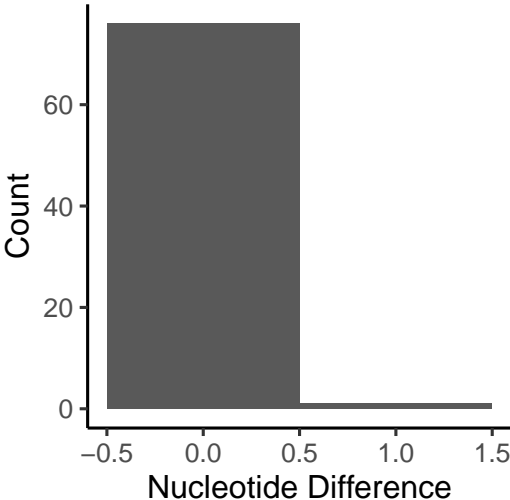
TRBV5-4\*ap01

3270 sequences assigned  
3219 (98.4%) exact matches, in which:  
3144 unique CDR3  
13 unique J



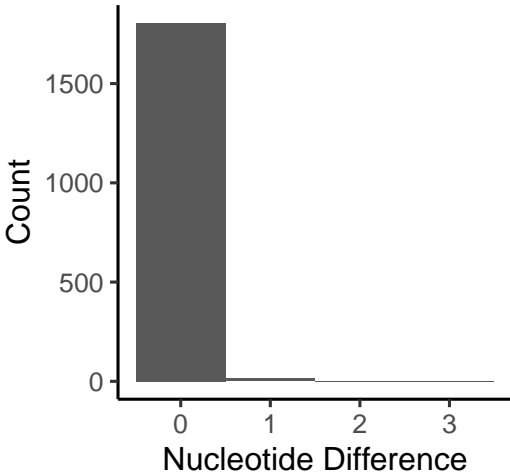
TRBV5-7\*ap01

77 sequences assigned  
76 (98.7%) exact matches, in which:  
74 unique CDR3  
11 unique J



TRBV6-4\*ap01

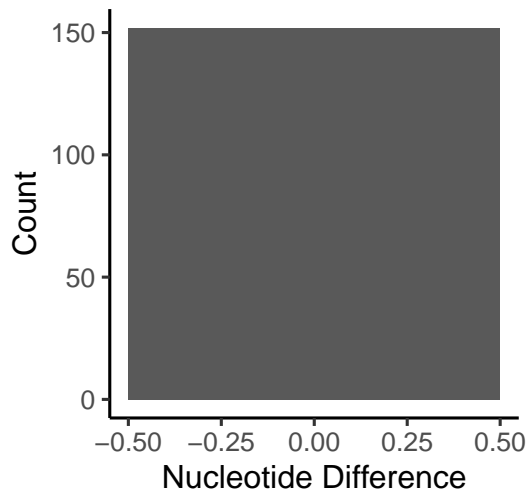
1822 sequences assigned  
1805 (99.1%) exact matches, in which:  
1778 unique CDR3  
13 unique J





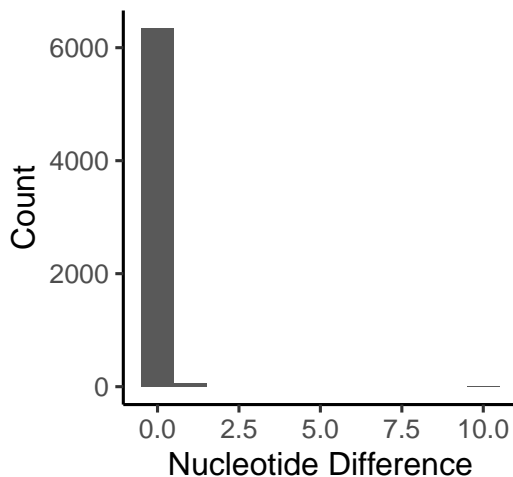
### TRBV6-7\*ap01

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



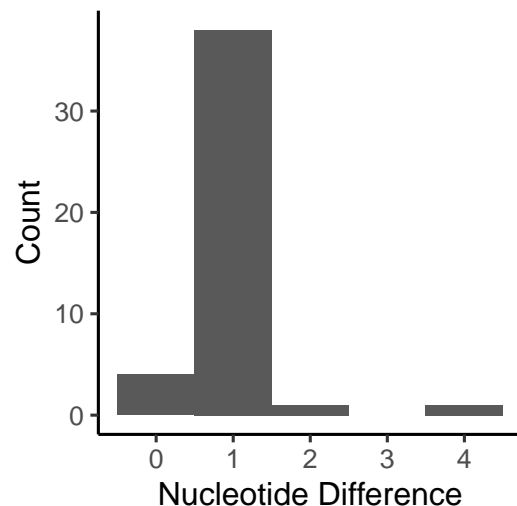
### TRBV6-23\*ap01

6409 sequences assigned  
6341 (98.9%) exact matches, in which:  
6203 unique CDR3  
13 unique J



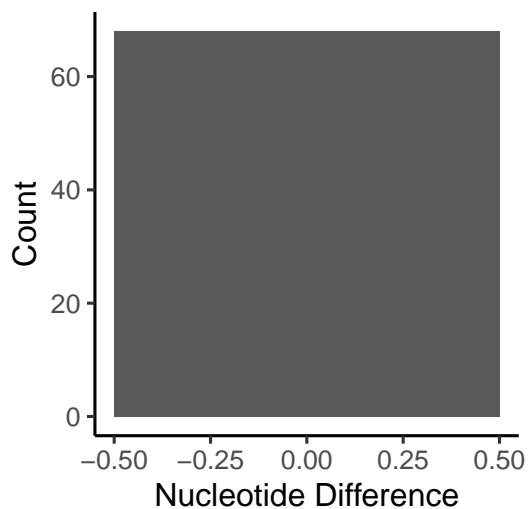
### TRBV7-1\*ap01\_T296C

44 sequences assigned  
4 (9.1%) exact matches, in which:  
4 unique CDR3  
4 unique J



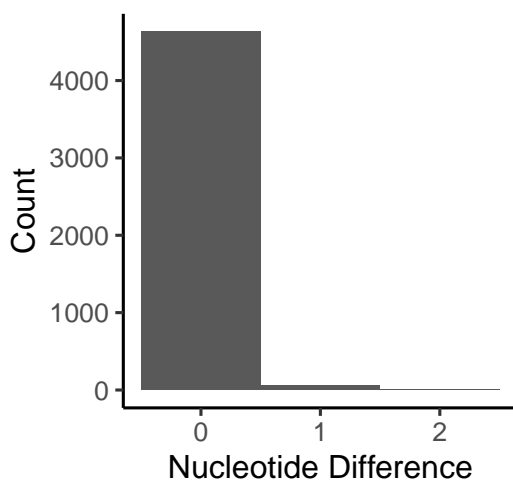
### TRBV6-8\*ap01

68 sequences assigned  
68 (100%) exact matches, in which:  
67 unique CDR3  
12 unique J



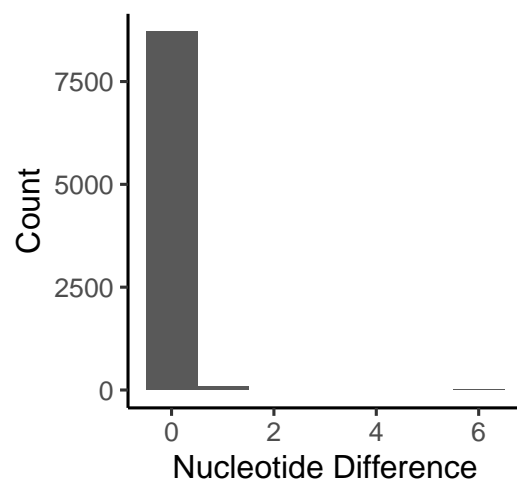
### TRBV6-56\*ap01

4692 sequences assigned  
4631 (98.7%) exact matches, in which:  
4550 unique CDR3  
13 unique J



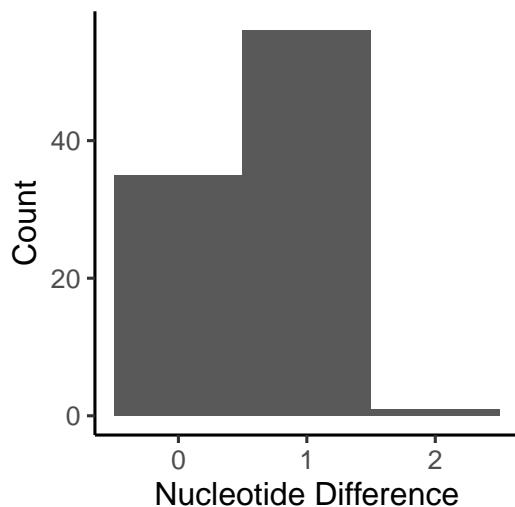
### TRBV7-2\*ap01

8796 sequences assigned  
8711 (99%) exact matches, in which:  
8524 unique CDR3  
13 unique J



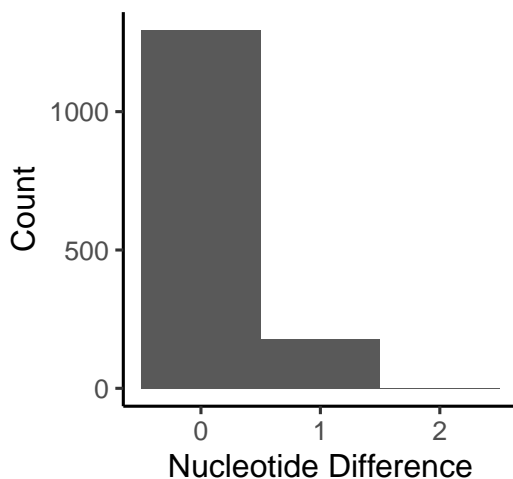
### TRBV6-9\*ap01

92 sequences assigned  
35 (38%) exact matches, in which:  
35 unique CDR3  
11 unique J



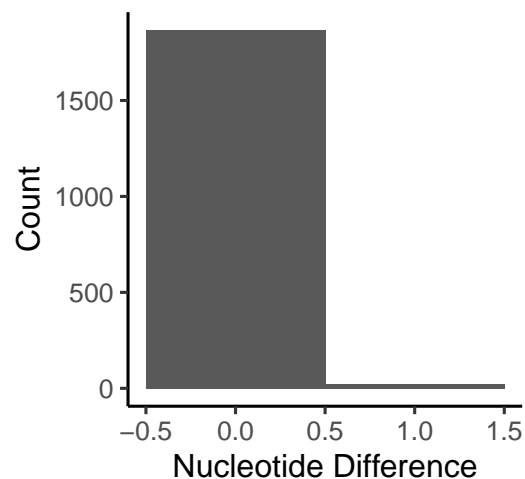
### TRBV6-56\*ap02

1476 sequences assigned  
1295 (87.7%) exact matches, in which:  
1266 unique CDR3  
13 unique J



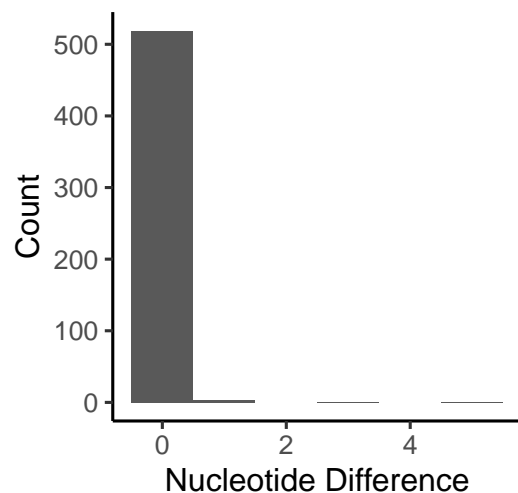
### TRBV7-3\*ap01

1888 sequences assigned  
1867 (98.9%) exact matches, in which:  
1838 unique CDR3  
13 unique J



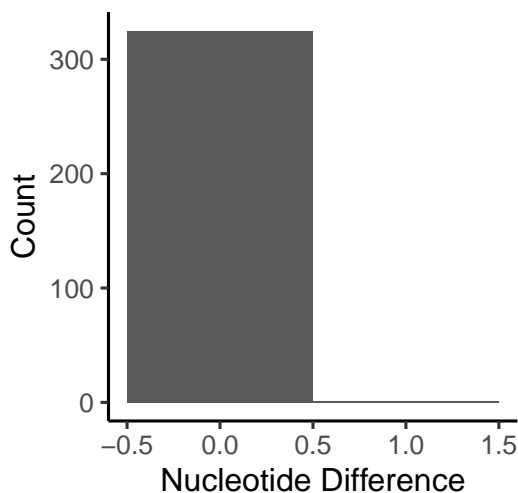
### TRBV7-3\*ap02

524 sequences assigned  
519 (99%) exact matches, in which:  
502 unique CDR3  
13 unique J



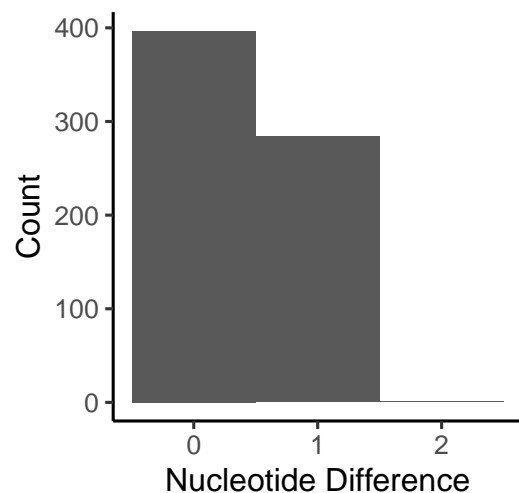
### TRBV7-7\*ap01

326 sequences assigned  
325 (99.7%) exact matches, in which:  
310 unique CDR3  
13 unique J



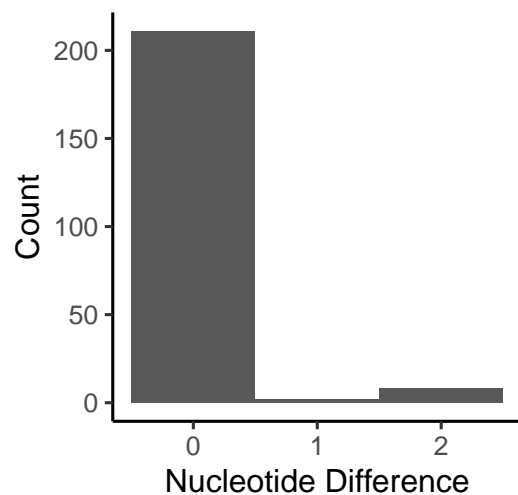
### TRBV7-8\*ap03

682 sequences assigned  
397 (58.2%) exact matches, in which:  
385 unique CDR3  
13 unique J



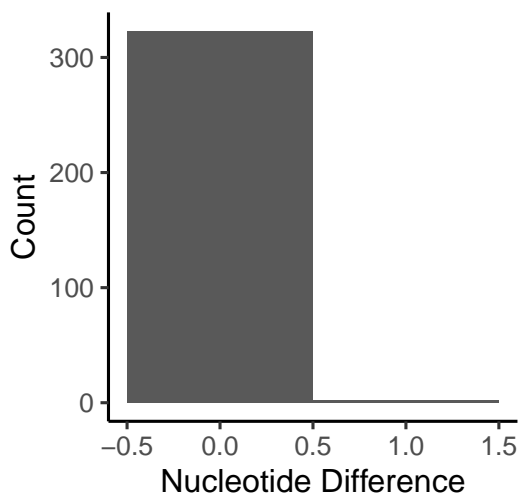
### TRBV7-4\*ap01

221 sequences assigned  
211 (95.5%) exact matches, in which:  
208 unique CDR3  
13 unique J



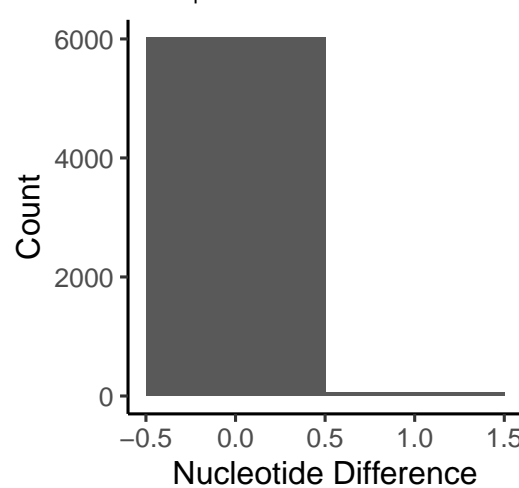
### TRBV7-7\*ap01\_C315T

325 sequences assigned  
323 (99.4%) exact matches, in which:  
318 unique CDR3  
13 unique J



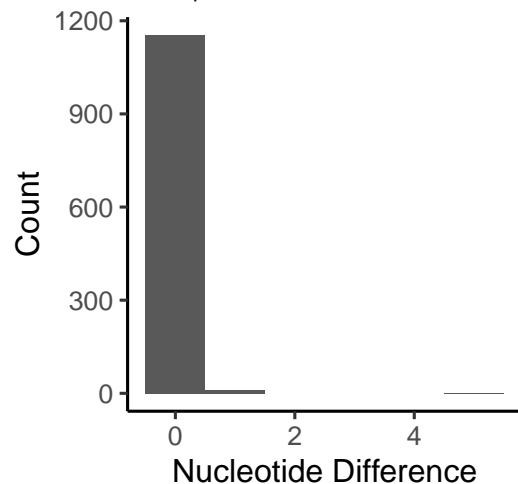
### TRBV7-9\*ap01

6078 sequences assigned  
6020 (99%) exact matches, in which:  
5900 unique CDR3  
13 unique J



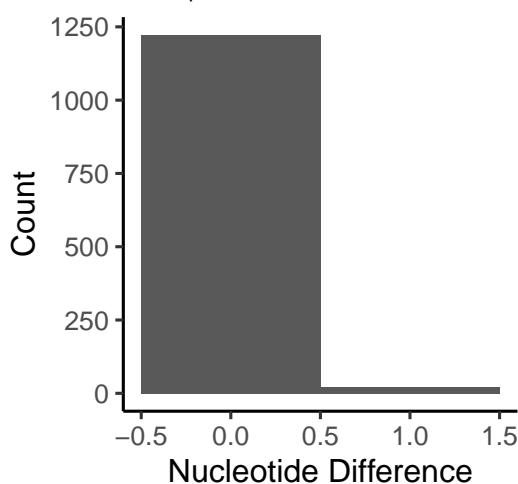
### TRBV7-6\*ap01

1165 sequences assigned  
1154 (99.1%) exact matches, in which:  
1132 unique CDR3  
13 unique J



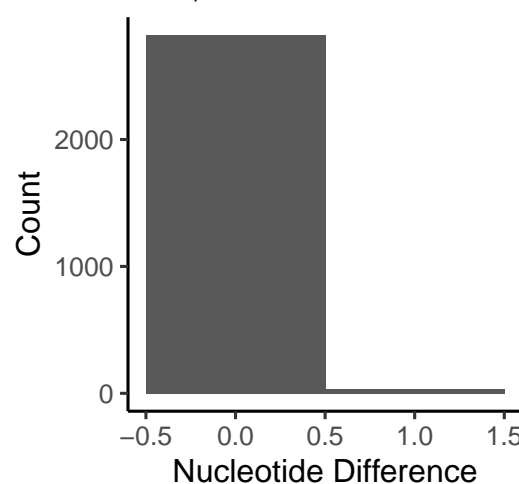
### TRBV7-8\*ap01

1244 sequences assigned  
1222 (98.2%) exact matches, in which:  
1197 unique CDR3  
13 unique J



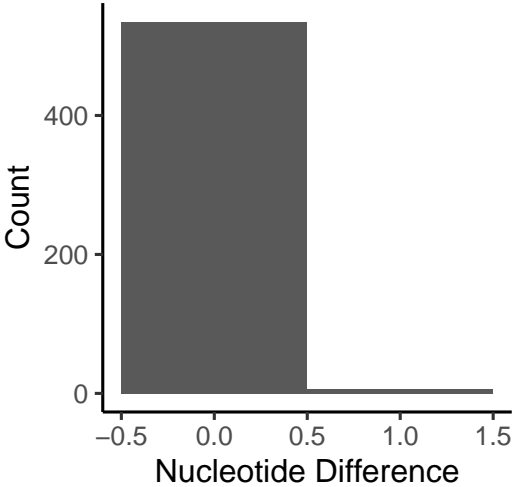
### TRBV29-1\*ap01

2858 sequences assigned  
2823 (98.8%) exact matches, in which:  
2776 unique CDR3  
13 unique J

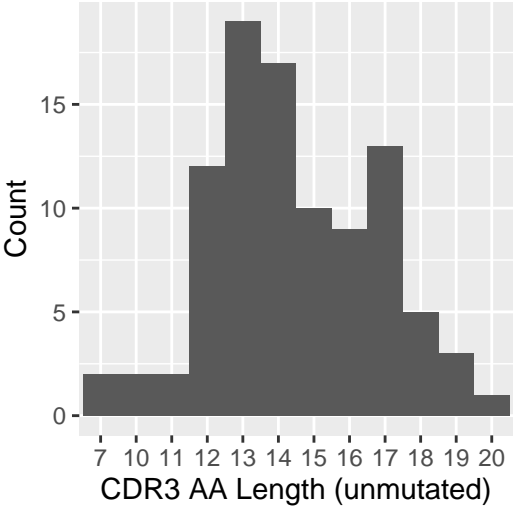


# TRBV29-1\*ap02

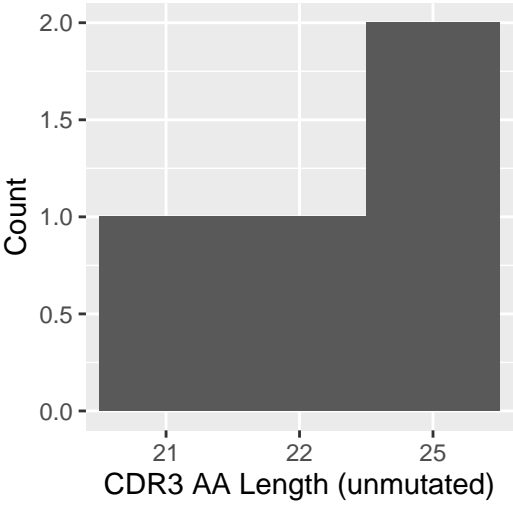
541 sequences assigned  
535 (98.9%) exact matches, in which:  
529 unique CDR3  
13 unique J



TRBV1\*ap01\_G303A



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T

