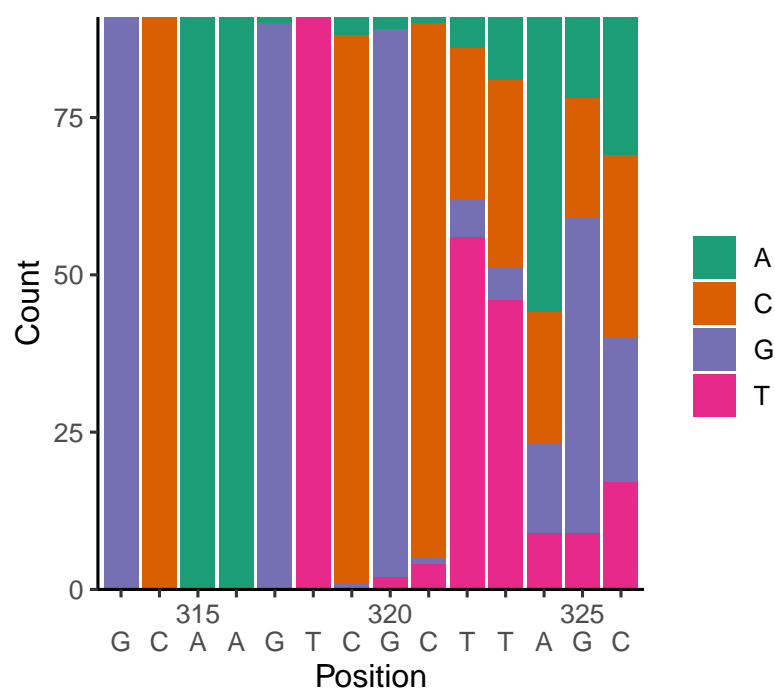
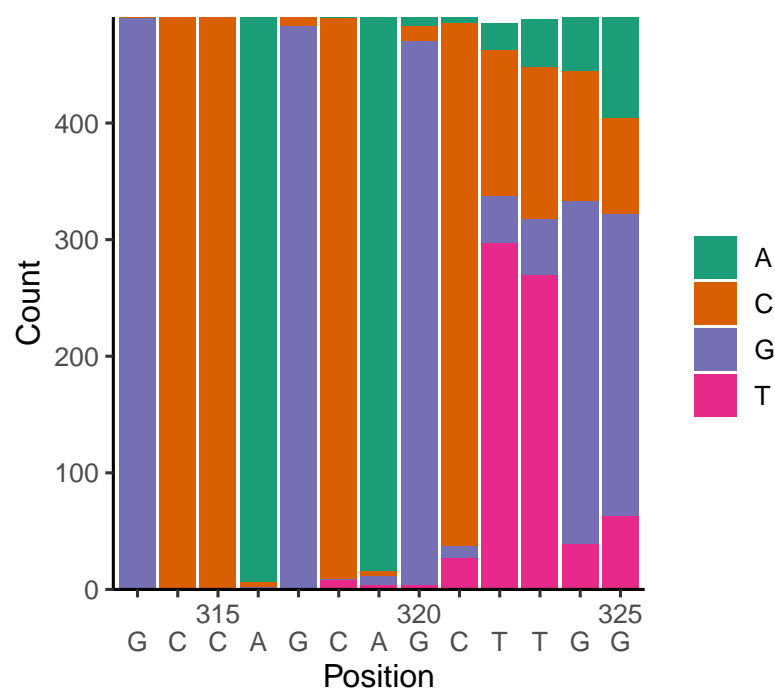


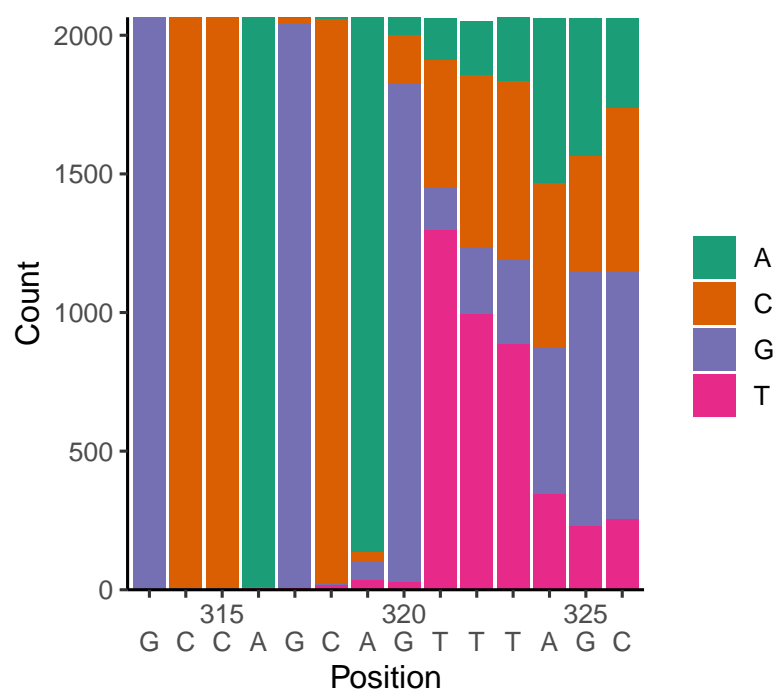
Gene TRBV12-2\*01\_T187C



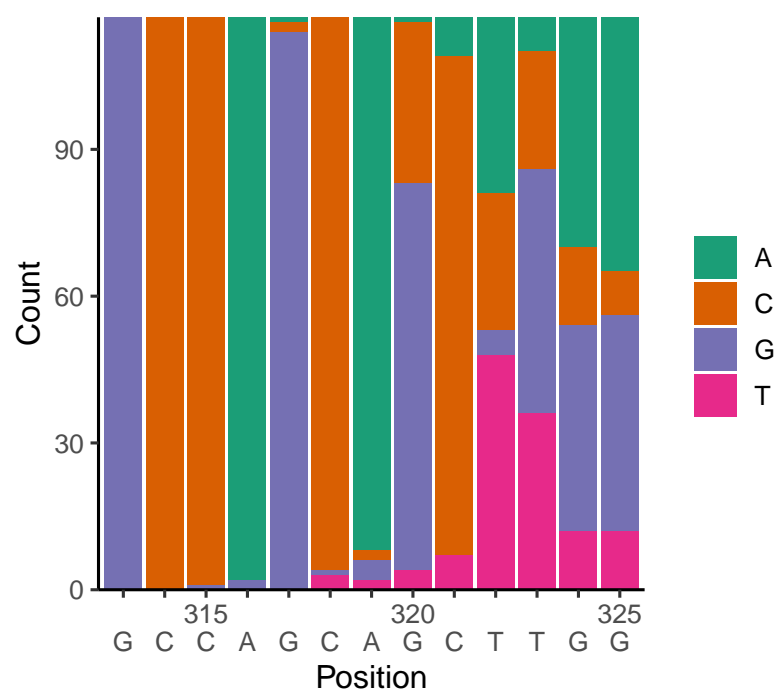
Gene TRBV5-5\*02\_322TTGG325



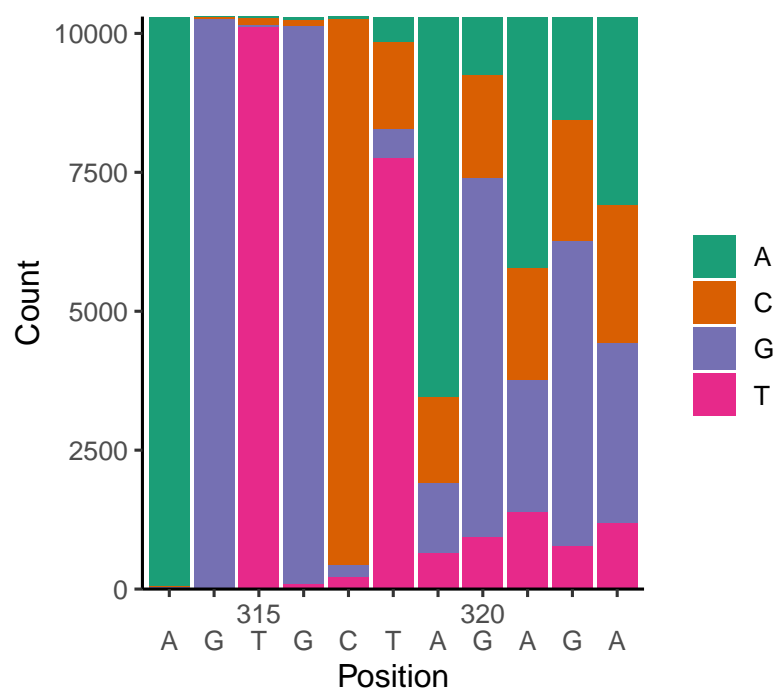
Gene TRBV12-4\*01\_C87T



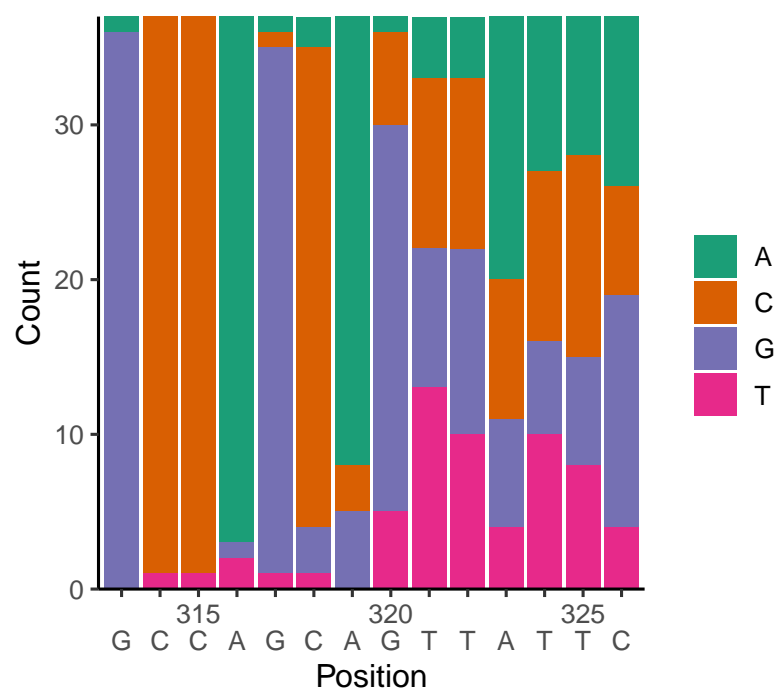
Gene TRBV5-8\*01\_C56T\_C276T



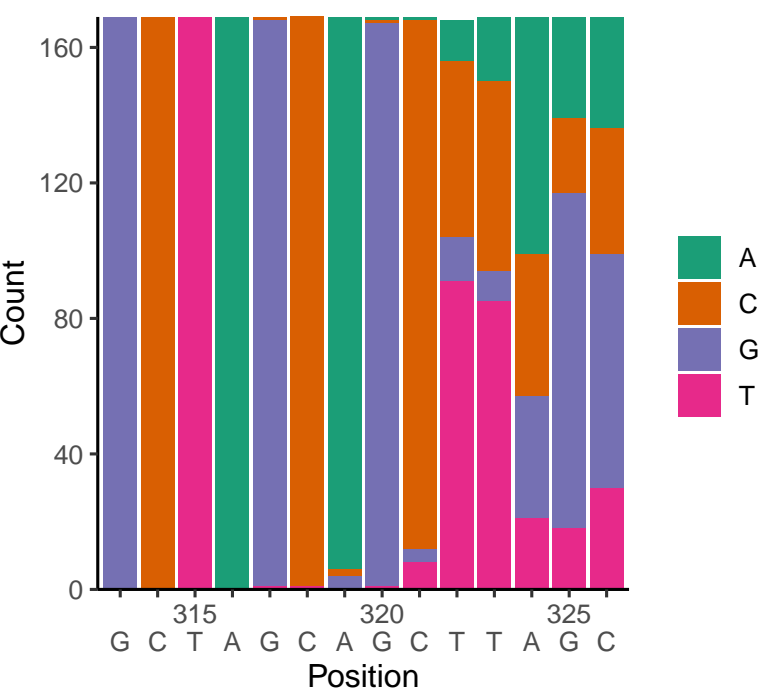
Gene TRBV20-1\*02\_319AGAGA323



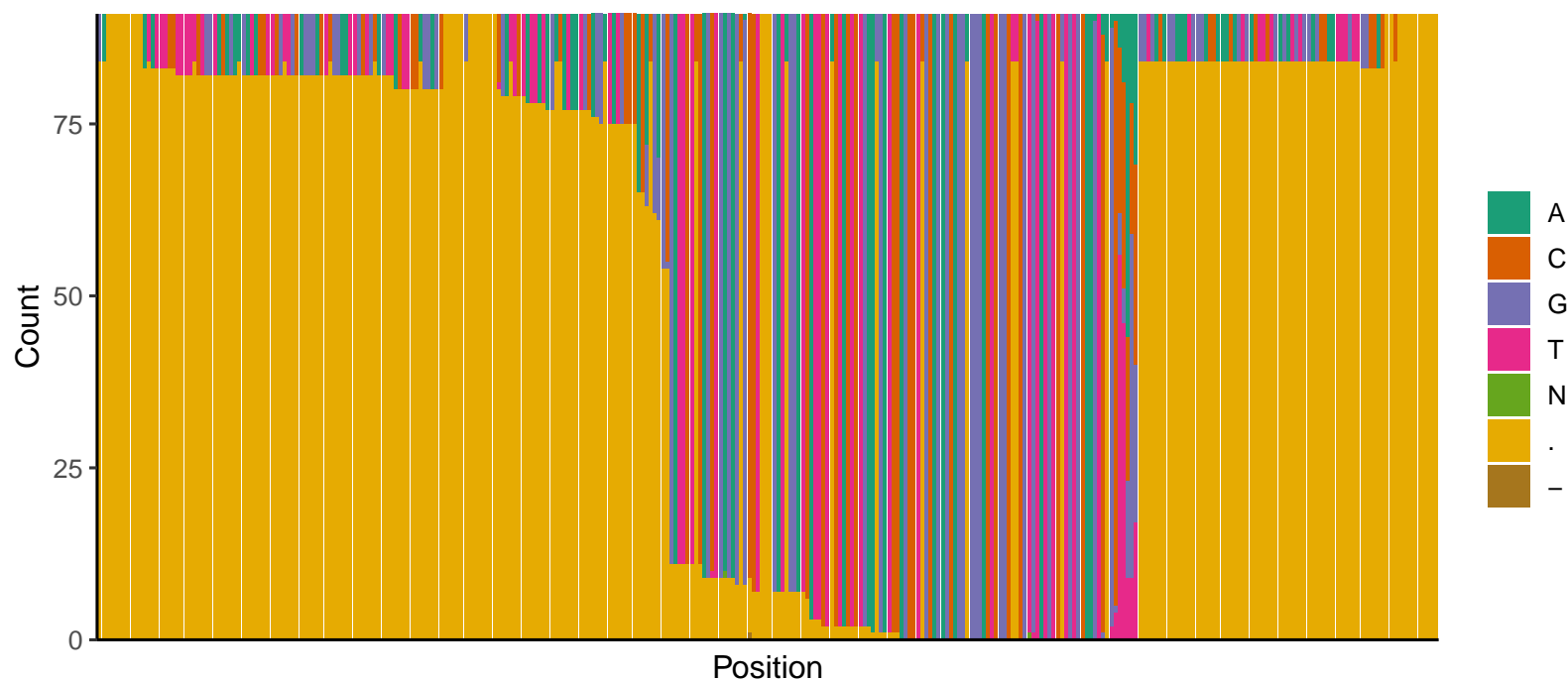
Gene TRBV6-9\*01\_A303G



Gene TRBV7-7\*01\_C315T



Gene TRBV12-2\*01\_T187C



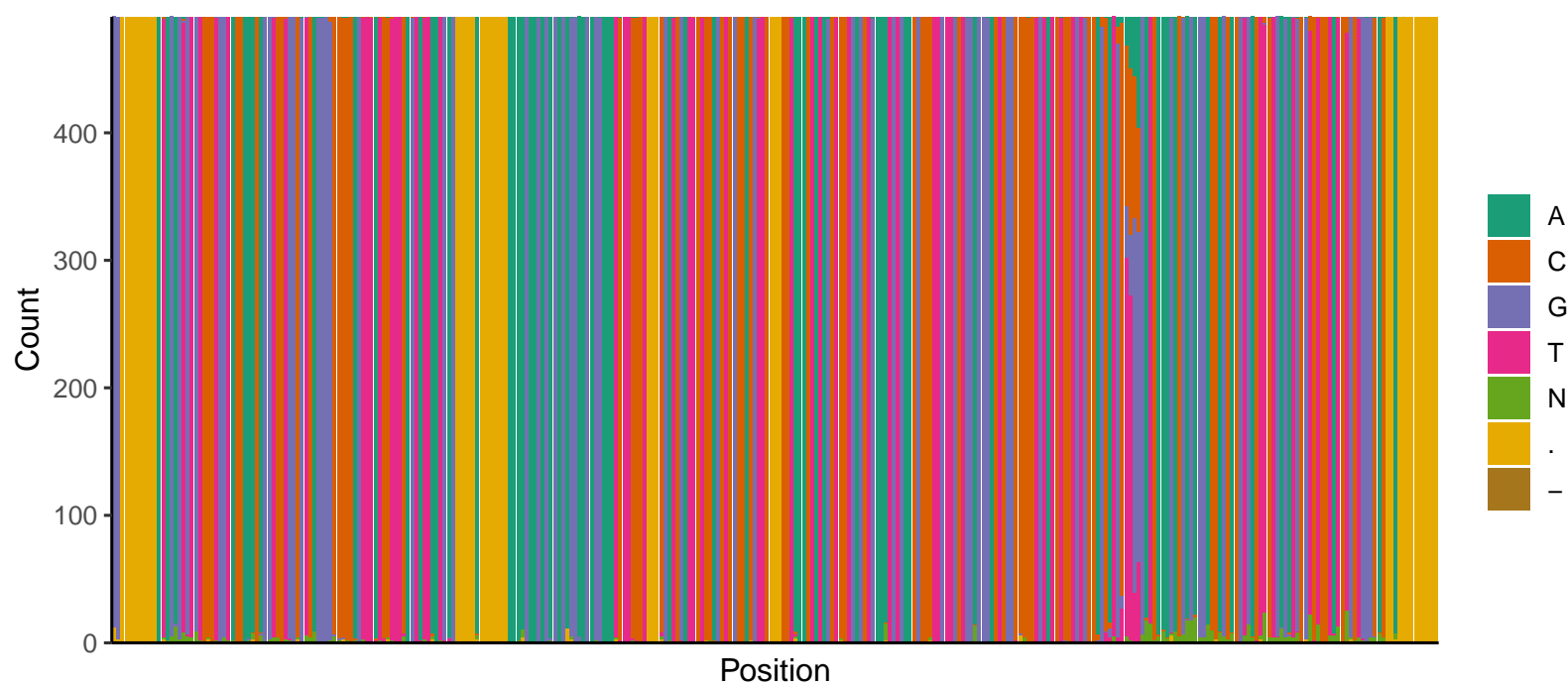
Gene TRBV12-4\*01\_C87T



Gene TRBV20-1\*02\_319AGAGA323



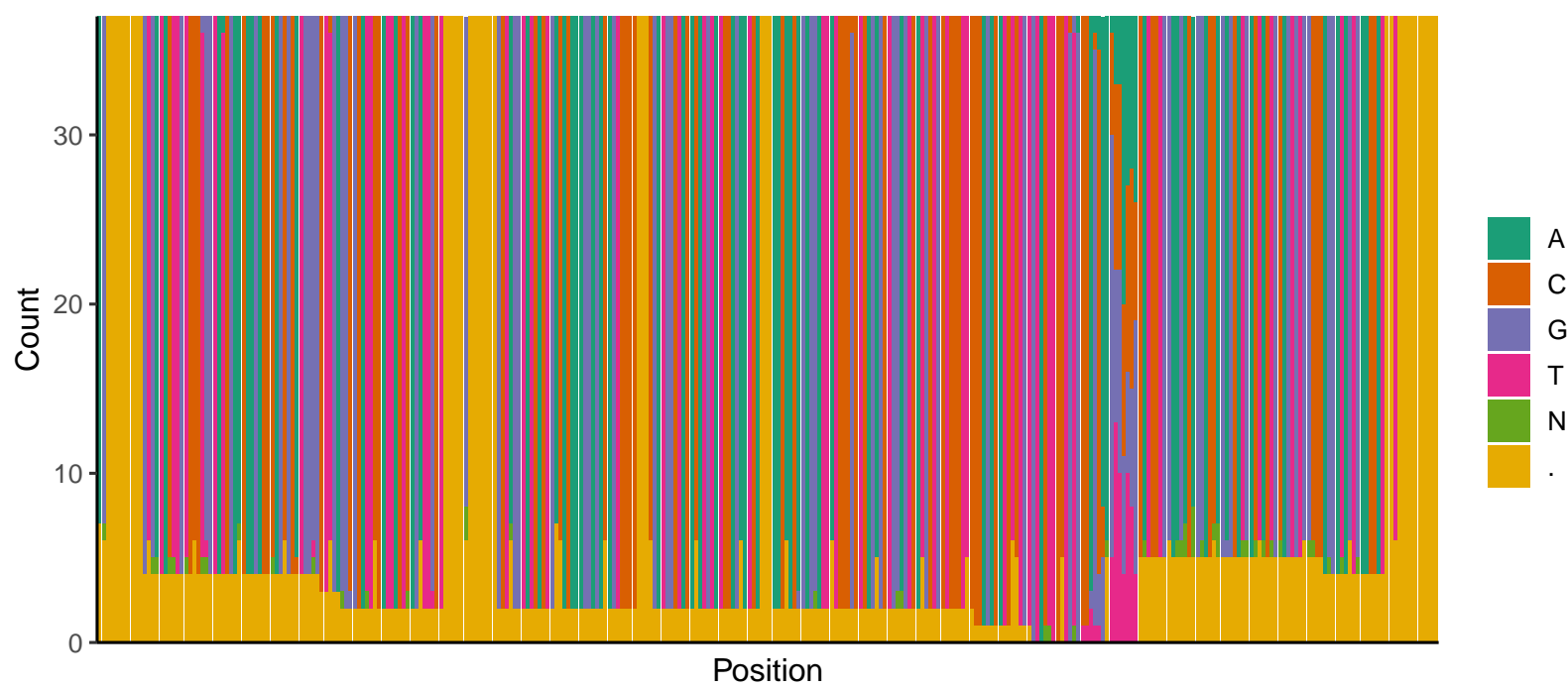
Gene TRBV5-5\*02\_322TTGG325



Gene TRBV5-8\*01\_C56T\_C276T



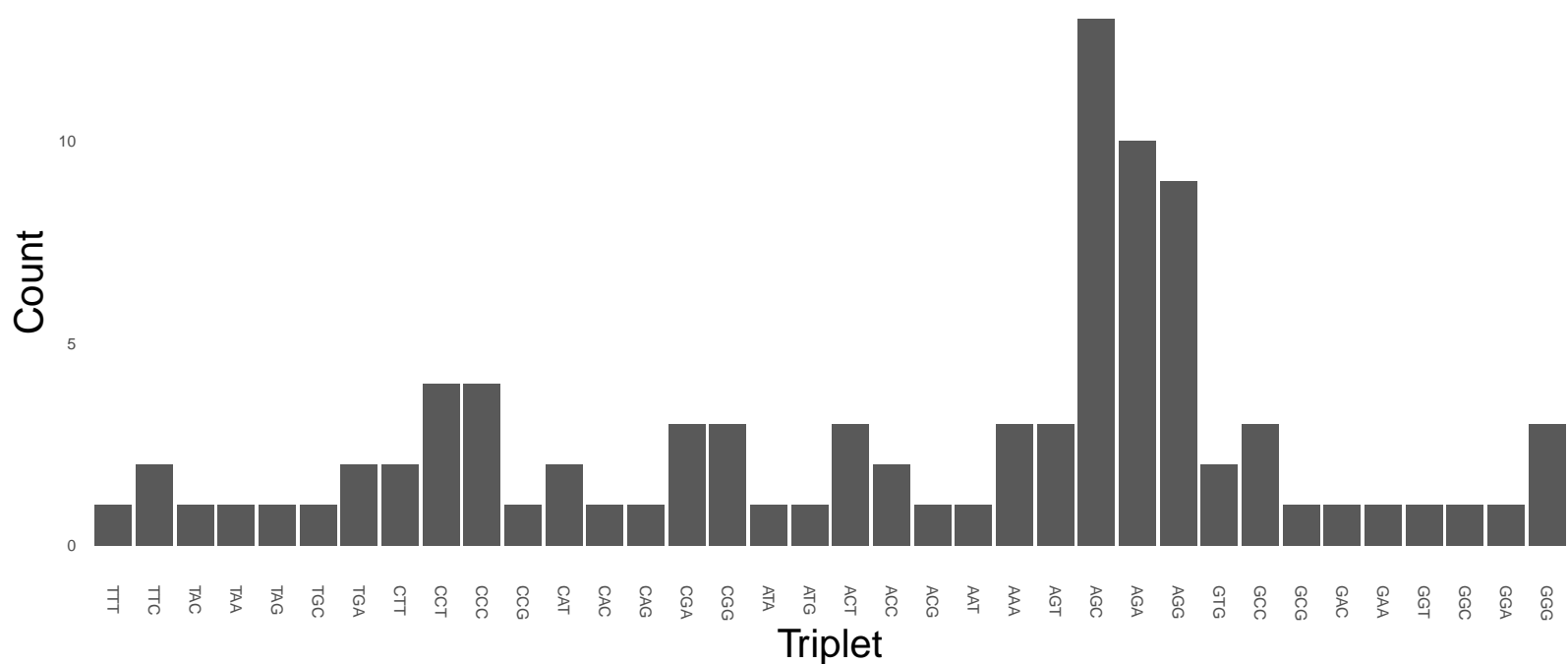
Gene TRBV6-9\*01\_A303G



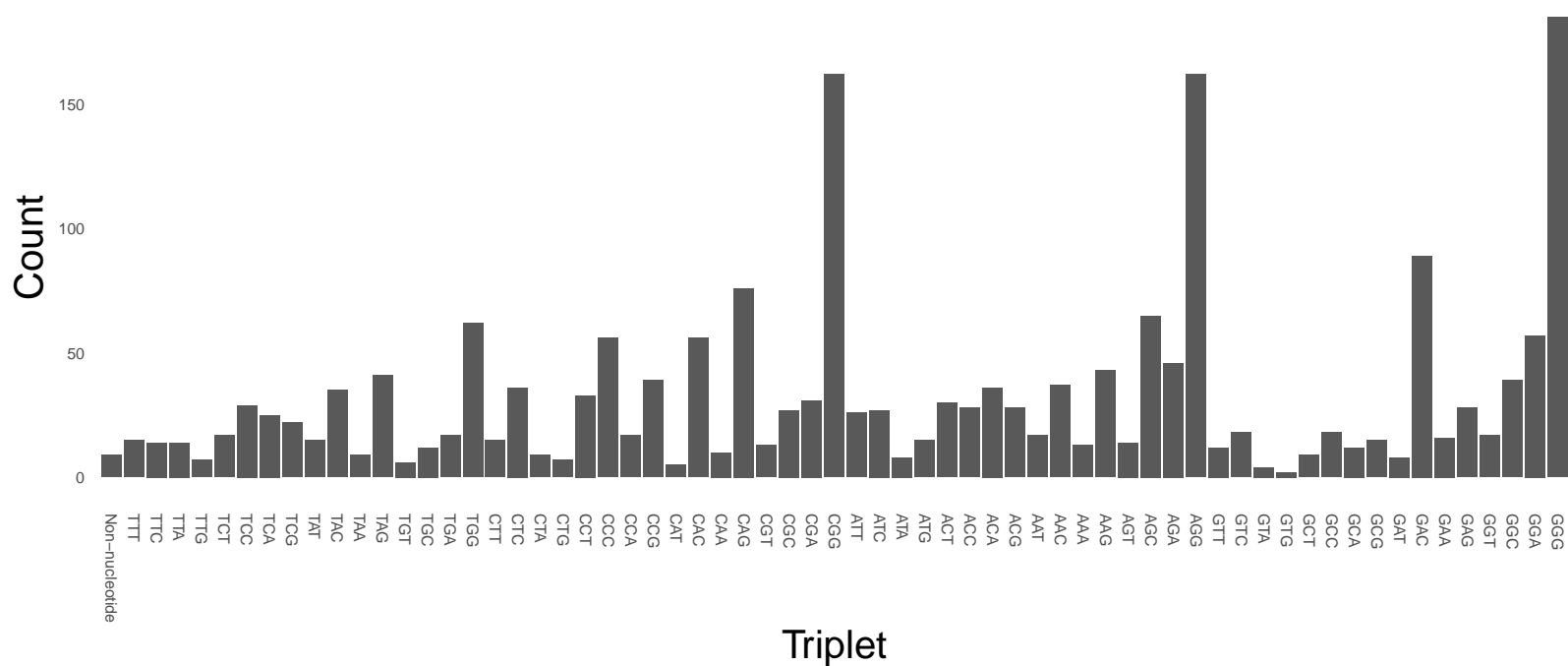
Gene TRBV7-7\*01\_C315T



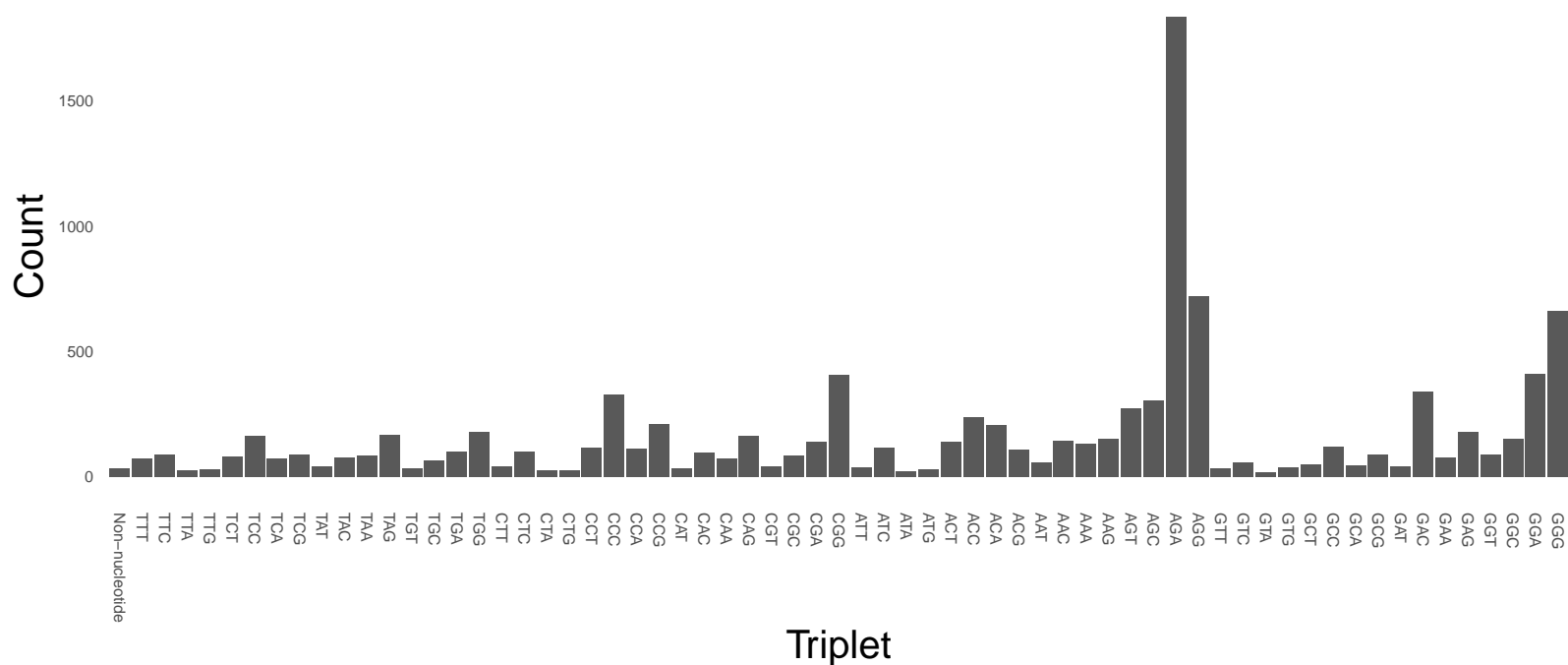
TRBV12-2\*01\_T187C- Final 3 nucleotides as a triplet



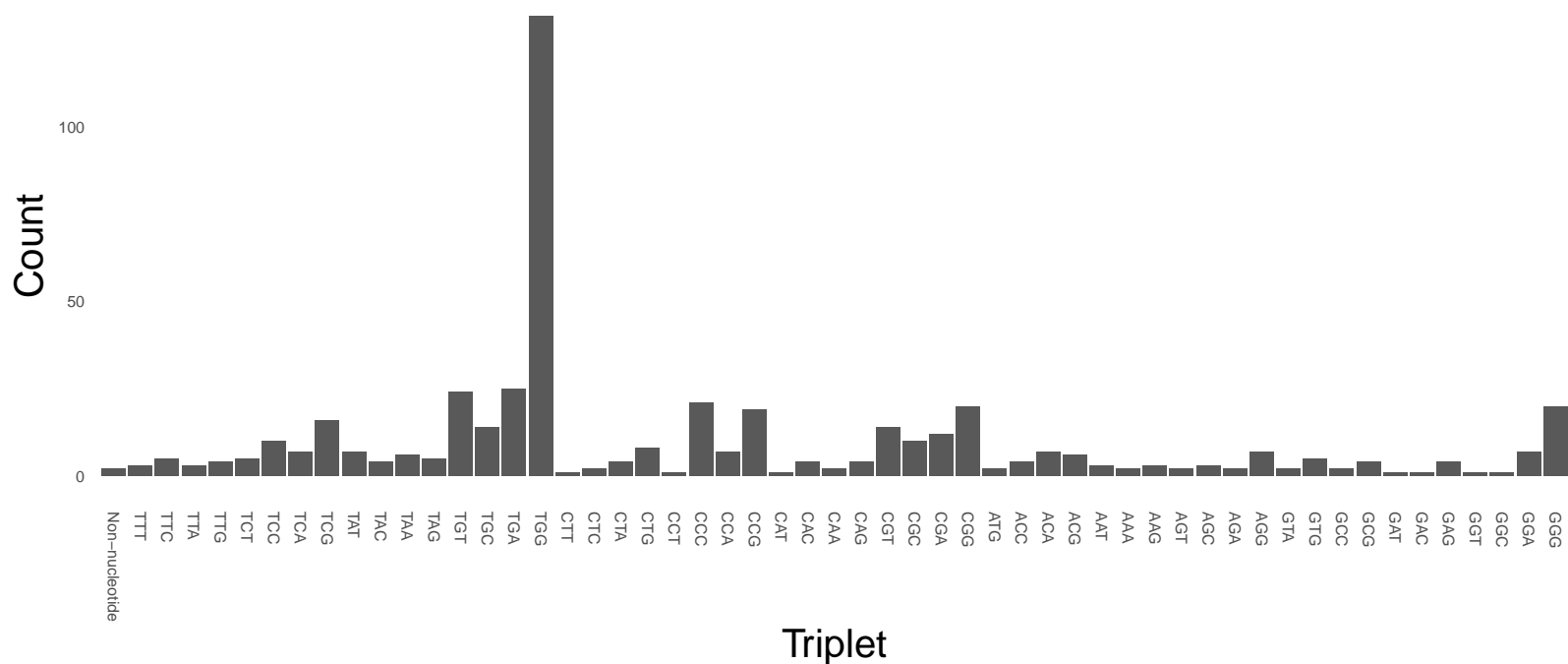
TRBV12-4\*01\_C87T- Final 3 nucleotides as a triplet



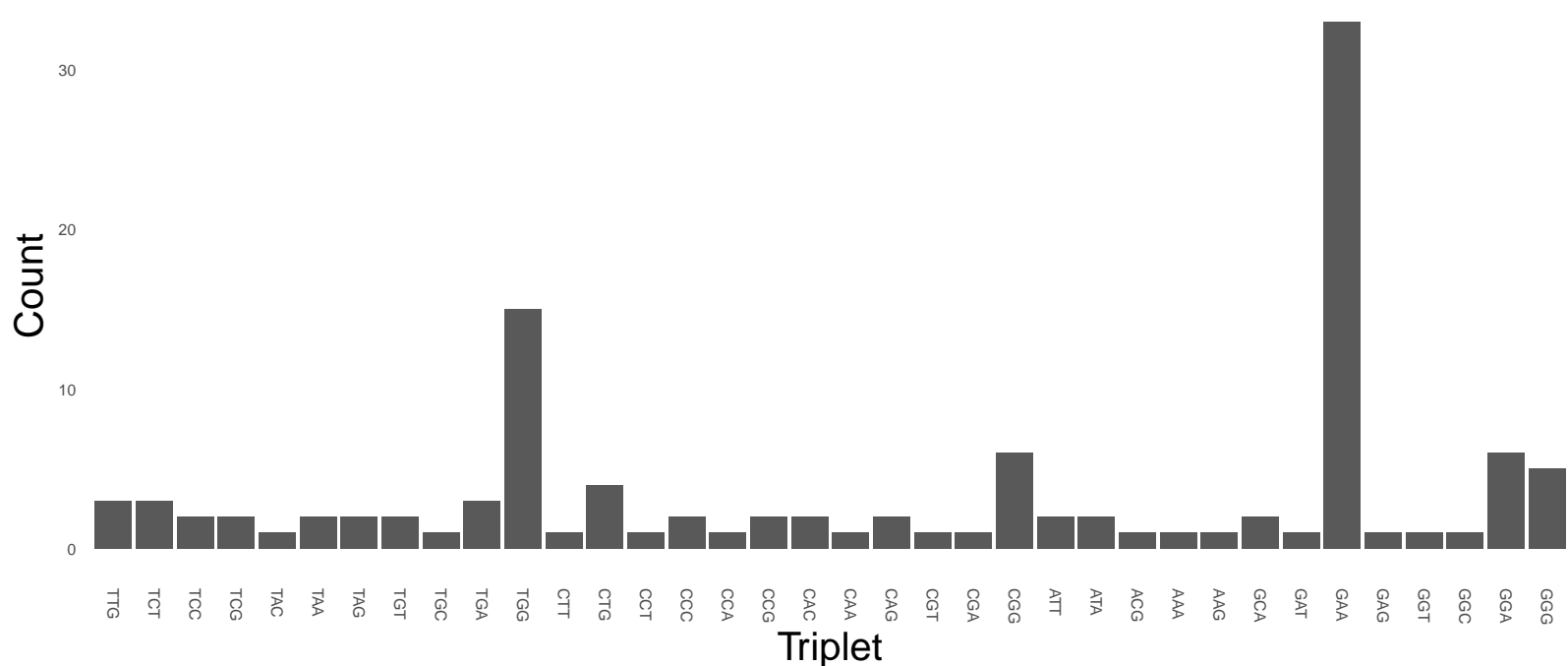
TRBV20-1\*02\_319AGAGA323- Final 3 nucleotides as a triplet



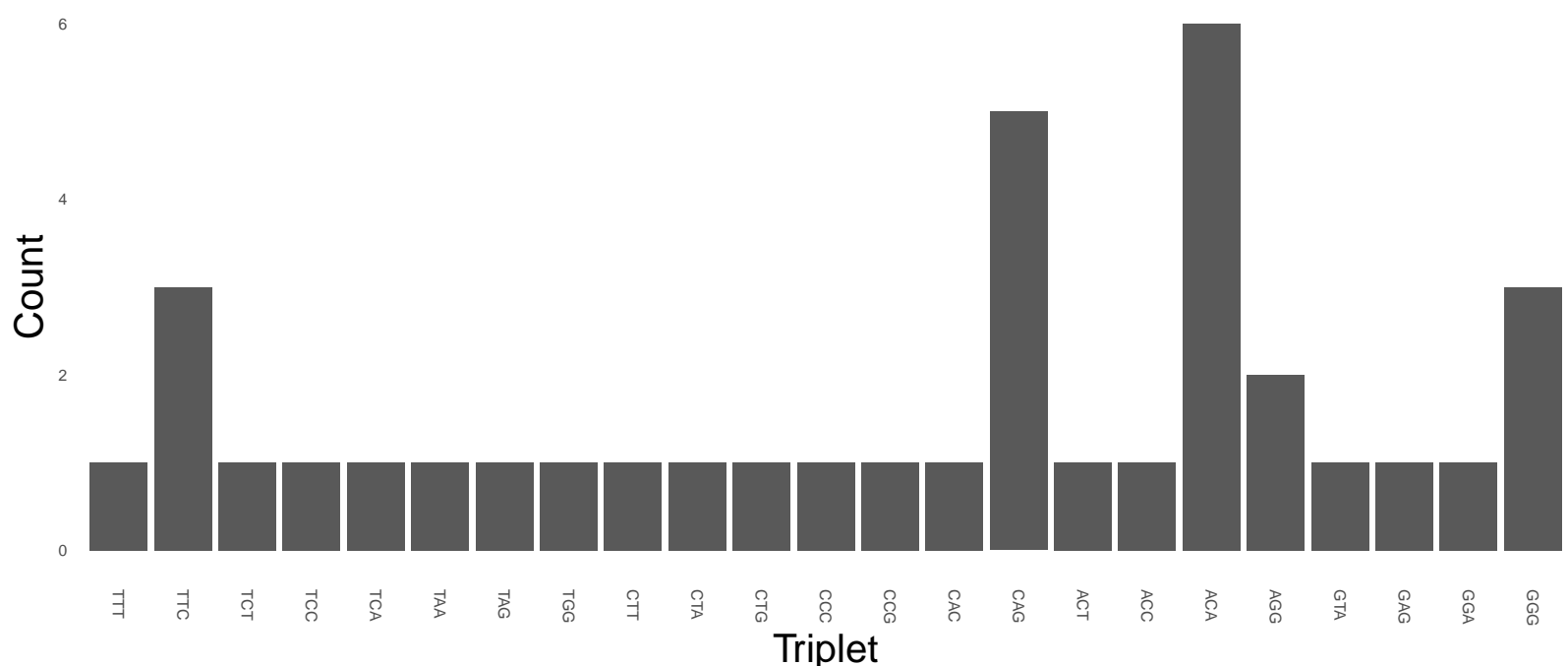
TRBV5–5\*02\_322TTGG325– Final 3 nucleotides as a triplet



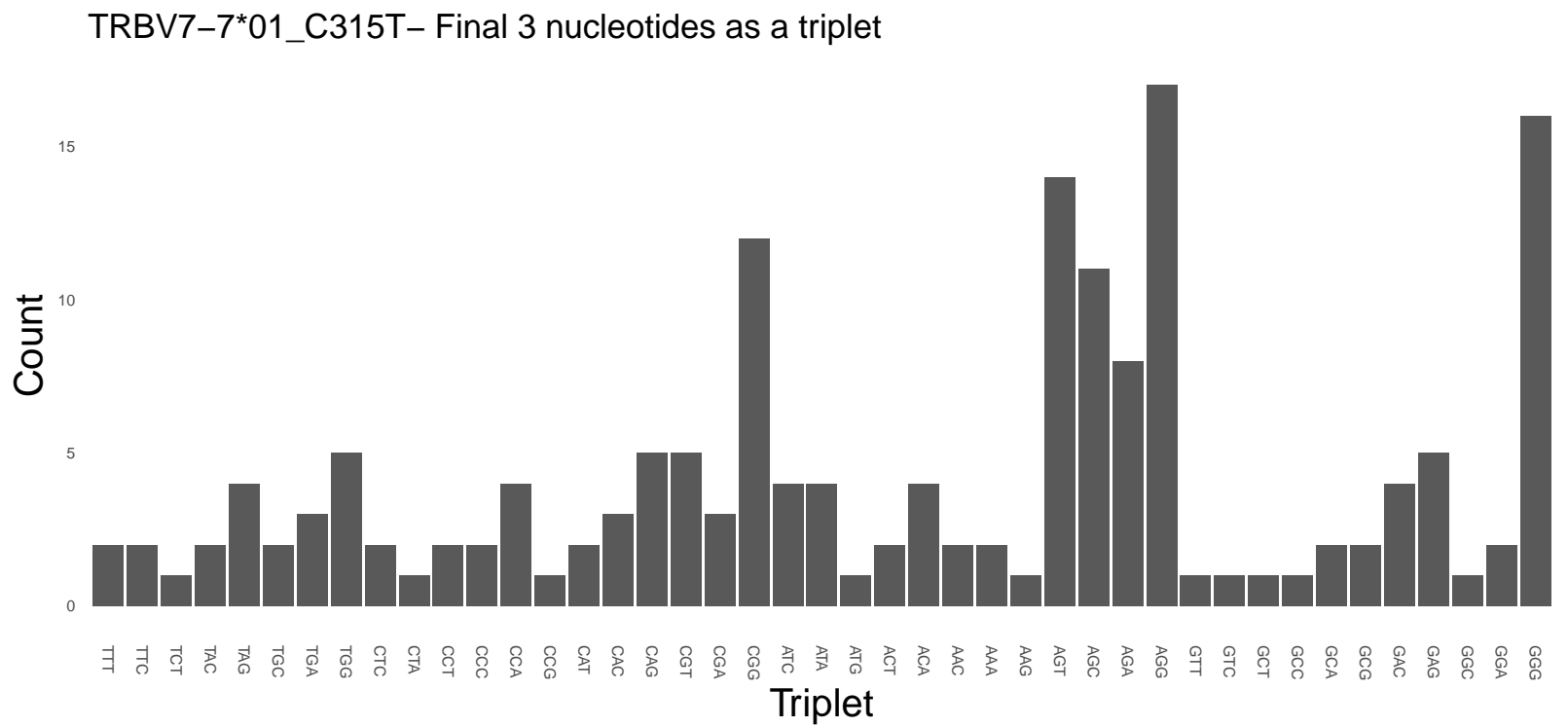
TRBV5–8\*01\_C56T\_C276T– Final 3 nucleotides as a triplet



TRBV6–9\*01\_A303G– Final 3 nucleotides as a triplet



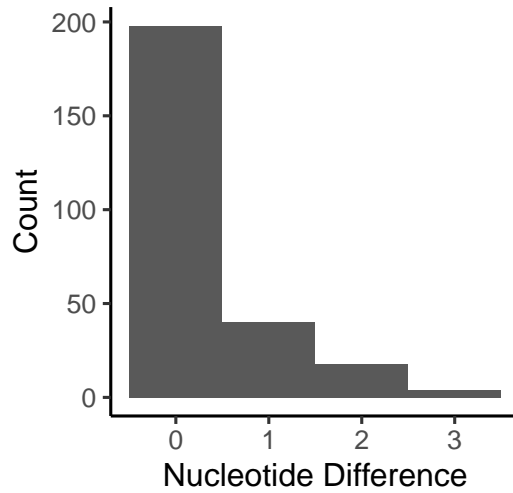
TRBV7-7\*01\_C315T- Final 3 nucleotides as a triplet





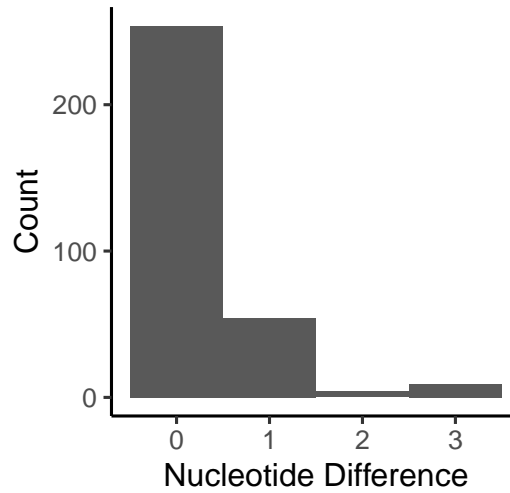
### TRBV10-1\*01

260 sequences assigned  
198 (76.2%) exact matches, in which:  
189 unique CDR3  
13 unique J



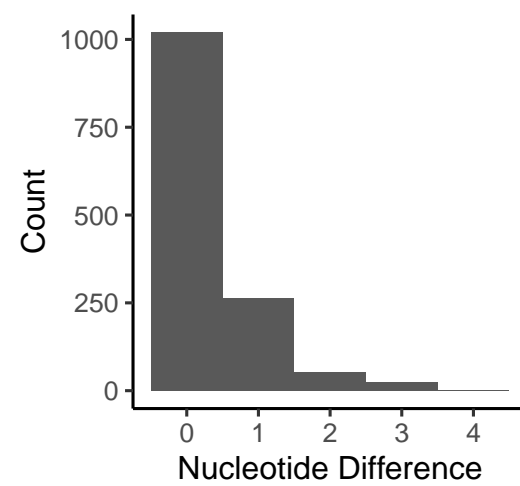
### TRBV10-2\*01

321 sequences assigned  
254 (79.1%) exact matches, in which:  
234 unique CDR3  
12 unique J



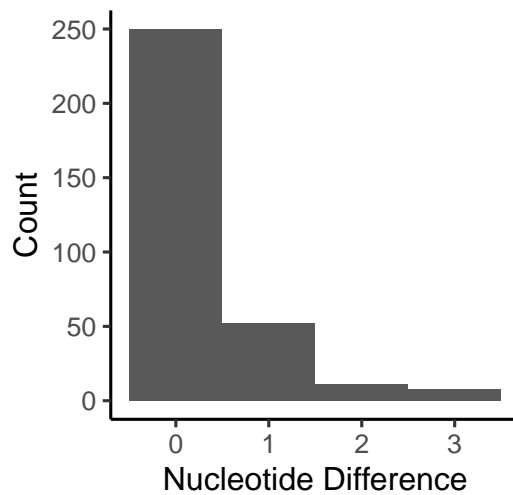
### TRBV10-3\*02

1359 sequences assigned  
1020 (75.1%) exact matches, in which:  
974 unique CDR3  
13 unique J



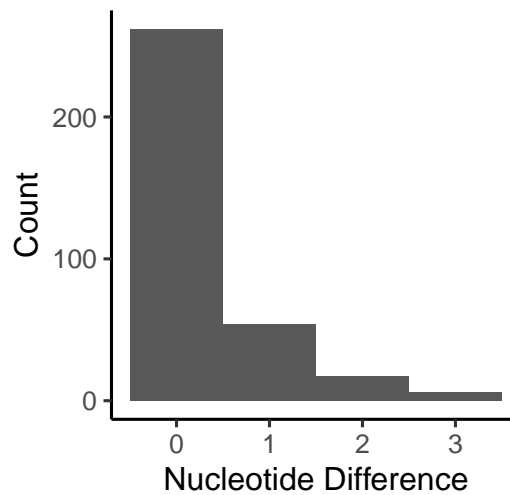
### TRBV10-1\*02

321 sequences assigned  
250 (77.9%) exact matches, in which:  
218 unique CDR3  
12 unique J



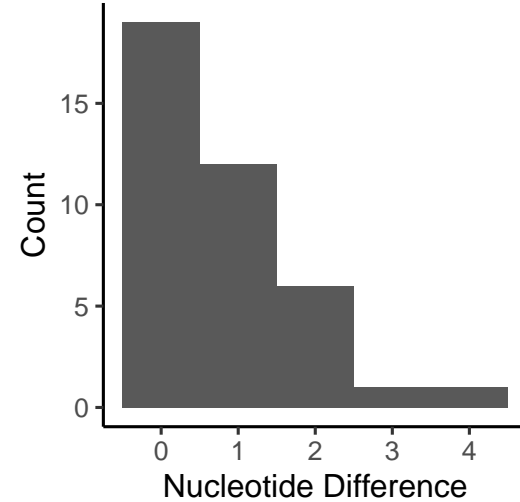
### TRBV10-2\*02

339 sequences assigned  
262 (77.3%) exact matches, in which:  
254 unique CDR3  
13 unique J



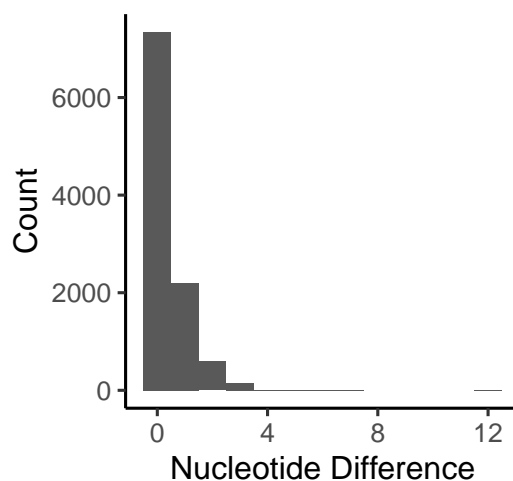
### TRBV1\*01

39 sequences assigned  
19 (48.7%) exact matches, in which:  
16 unique CDR3  
9 unique J



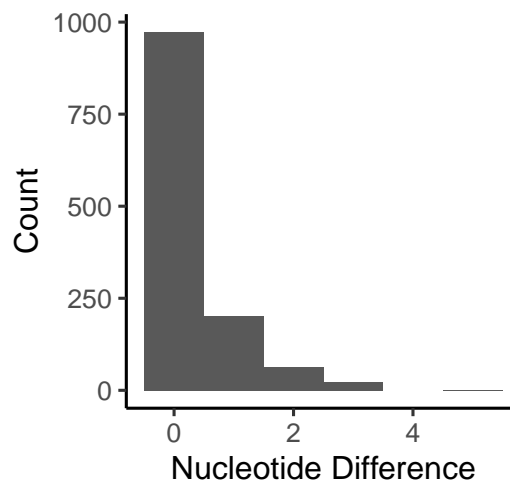
### TRBV20-1\*02\_319AGAC

10304 sequences assigned  
7342 (71.3%) exact matches, in which:  
6844 unique CDR3  
13 unique J



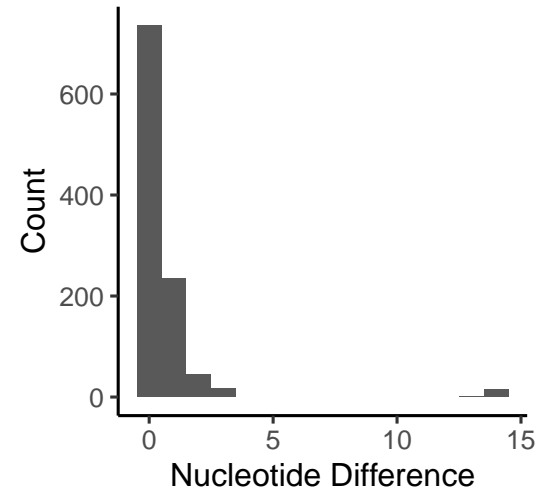
### TRBV10-3\*01

1262 sequences assigned  
973 (77.1%) exact matches, in which:  
930 unique CDR3  
13 unique J



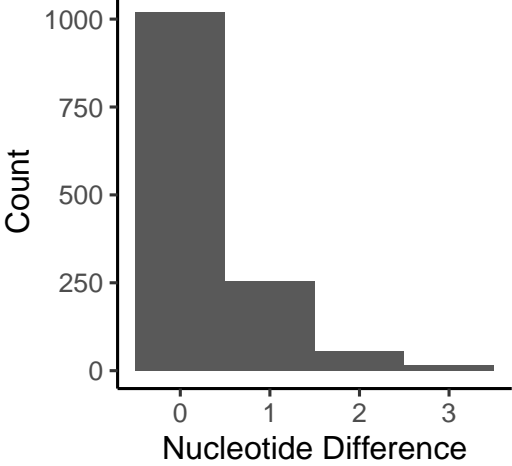
### TRBV13\*01

1048 sequences assigned  
736 (70.2%) exact matches, in which:  
693 unique CDR3  
13 unique J



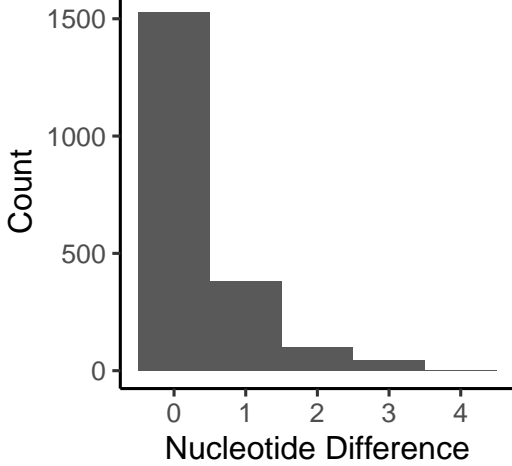
TRBV14\*01

1345 sequences assigned  
1019 (75.8%) exact matches, in which:  
936 unique CDR3  
13 unique J



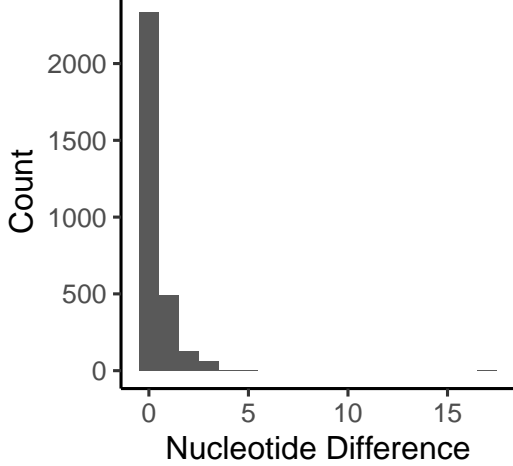
TRBV18\*01

2053 sequences assigned  
1527 (74.4%) exact matches, in which:  
1364 unique CDR3  
13 unique J



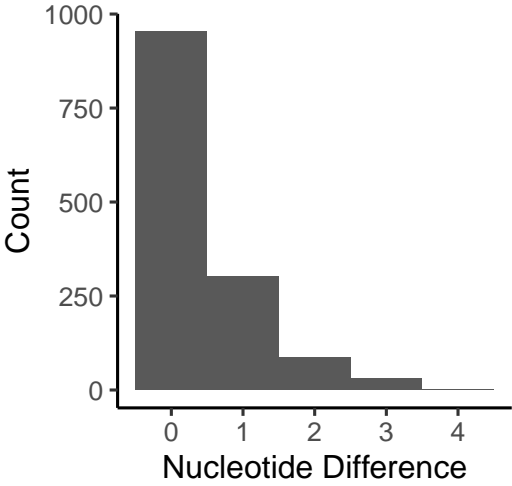
TRBV27\*01

3014 sequences assigned  
2333 (77.4%) exact matches, in which:  
2223 unique CDR3  
13 unique J



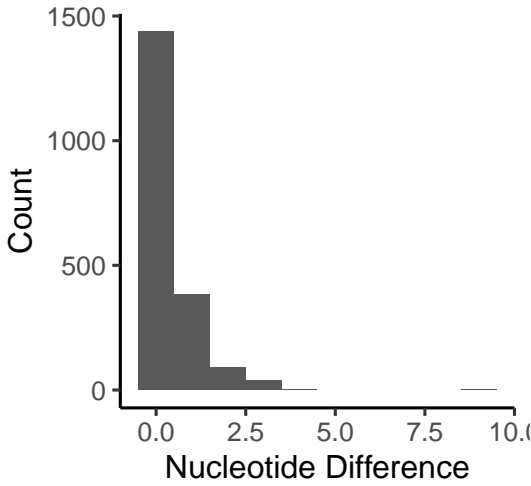
TRBV15\*02

1373 sequences assigned  
953 (69.4%) exact matches, in which:  
876 unique CDR3  
13 unique J



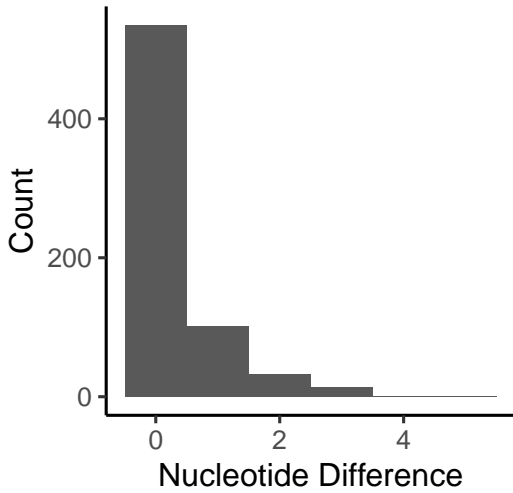
TRBV19\*01

1954 sequences assigned  
1437 (73.5%) exact matches, in which:  
1311 unique CDR3  
13 unique J



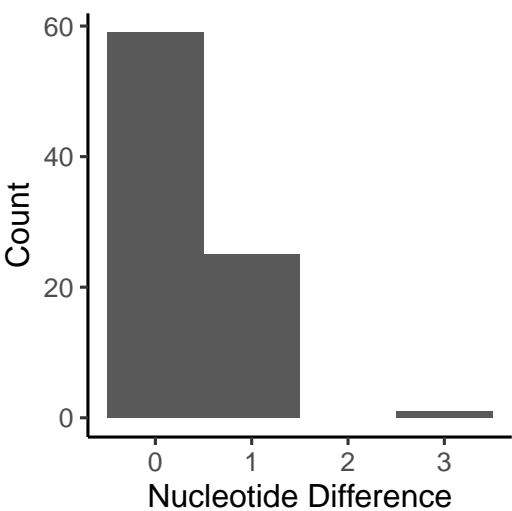
TRBV28\*01

684 sequences assigned  
535 (78.2%) exact matches, in which:  
511 unique CDR3  
13 unique J



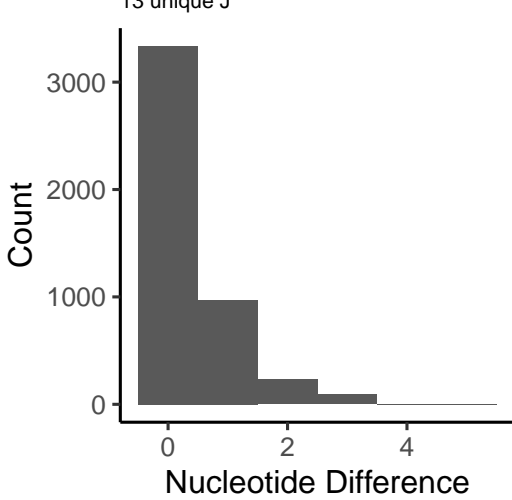
TRBV16\*01

85 sequences assigned  
59 (69.4%) exact matches, in which:  
57 unique CDR3  
13 unique J



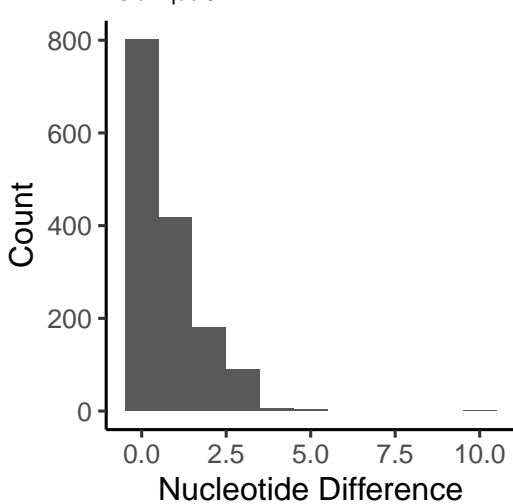
TRBV2\*01

4636 sequences assigned  
3336 (72%) exact matches, in which:  
3013 unique CDR3  
13 unique J



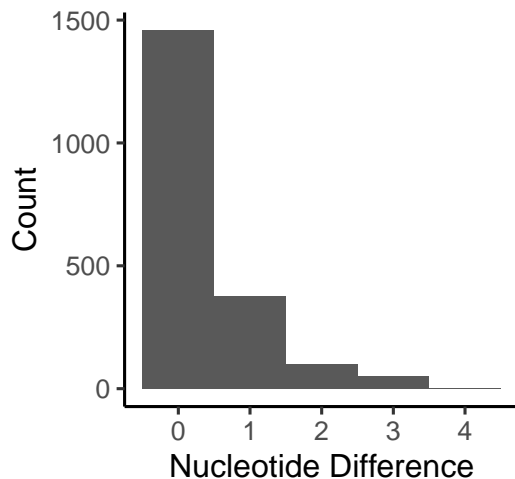
TRBV30\*01

1501 sequences assigned  
802 (53.4%) exact matches, in which:  
755 unique CDR3  
13 unique J



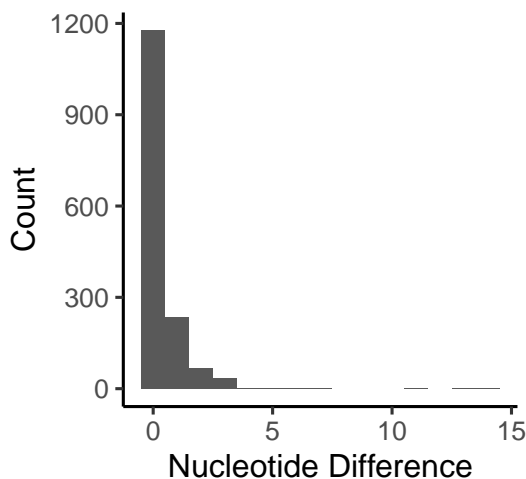
### TRBV9\*01

1988 sequences assigned  
1458 (73.3%) exact matches, in which:  
1382 unique CDR3  
13 unique J



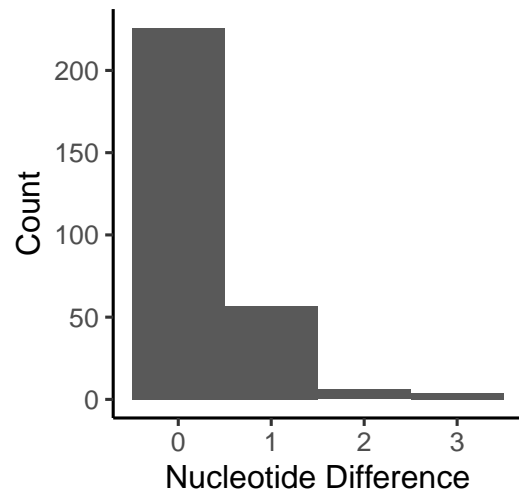
### TRBV21-1\*02

1527 sequences assigned  
1177 (77.1%) exact matches, in which:  
1093 unique CDR3  
14 unique J



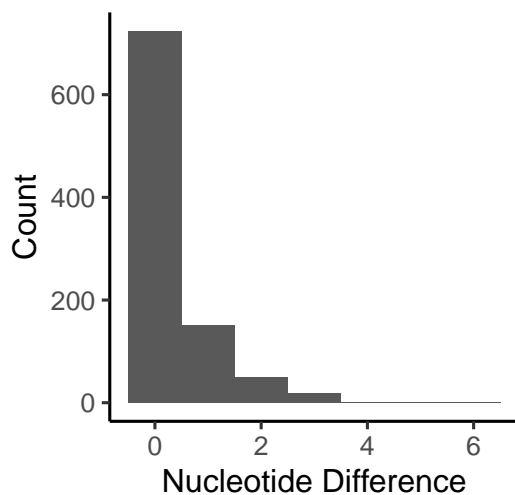
### TRBV11-3\*01

293 sequences assigned  
226 (77.1%) exact matches, in which:  
206 unique CDR3  
13 unique J



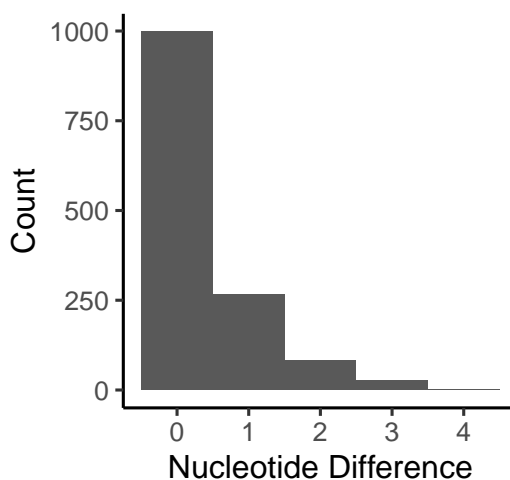
### TRBV9\*02

946 sequences assigned  
724 (76.5%) exact matches, in which:  
694 unique CDR3  
13 unique J



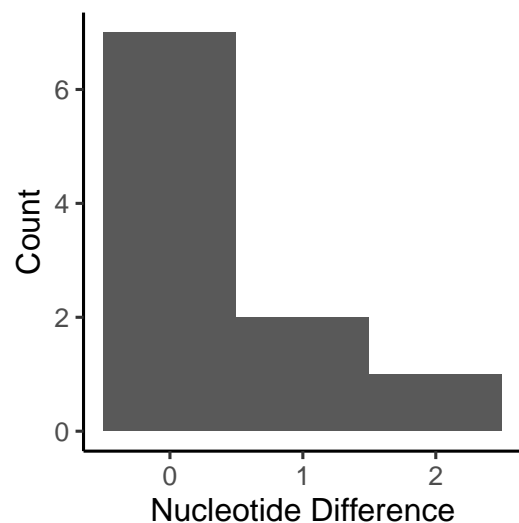
### TRBV11-2\*01

1375 sequences assigned  
998 (72.6%) exact matches, in which:  
916 unique CDR3  
13 unique J



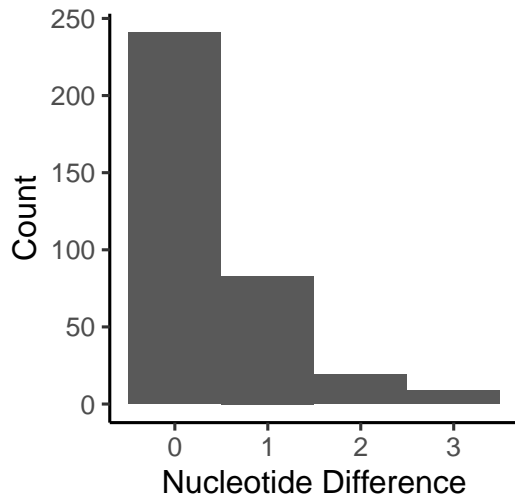
### TRBV12-1\*01

10 sequences assigned  
7 (70%) exact matches, in which:  
6 unique CDR3  
5 unique J



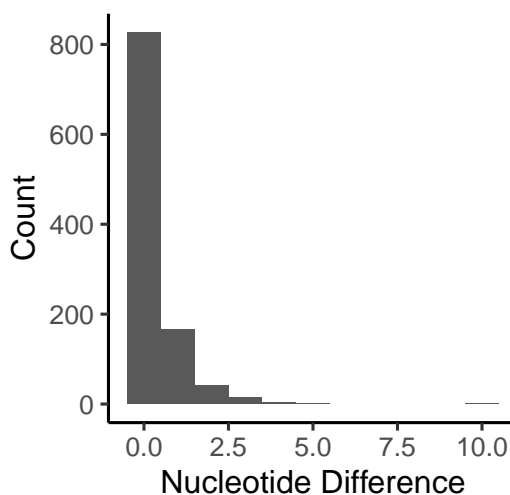
### TRBV11-1\*01

352 sequences assigned  
241 (68.5%) exact matches, in which:  
236 unique CDR3  
13 unique J



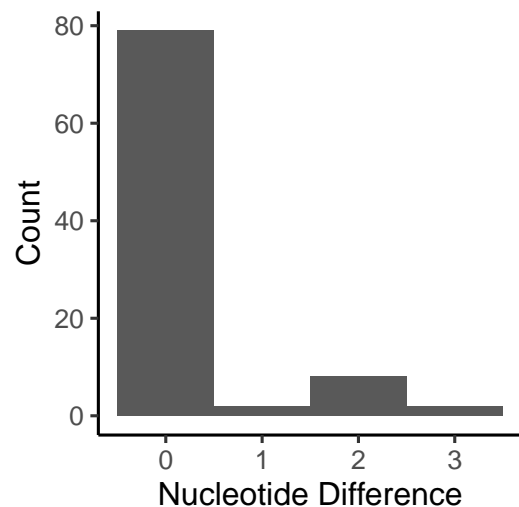
### TRBV11-2\*03

1053 sequences assigned  
827 (78.5%) exact matches, in which:  
798 unique CDR3  
13 unique J



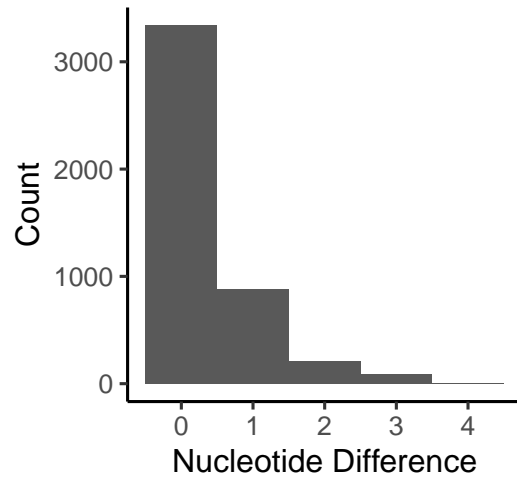
### TRBV12-2\*01\_T187C

91 sequences assigned  
79 (86.8%) exact matches, in which:  
76 unique CDR3  
12 unique J



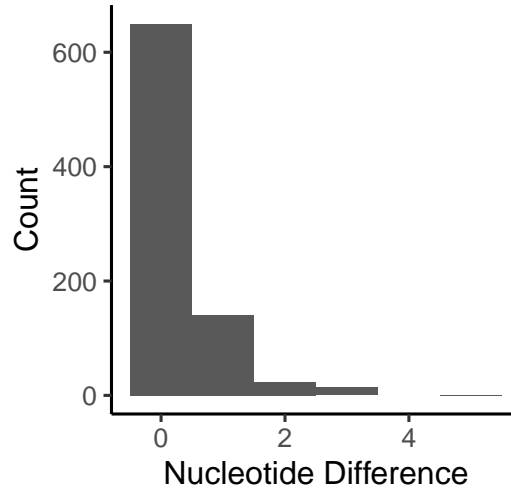
### TRBV12-3\*01

4527 sequences assigned  
3339 (73.8%) exact matches, in which:  
3168 unique CDR3  
13 unique J



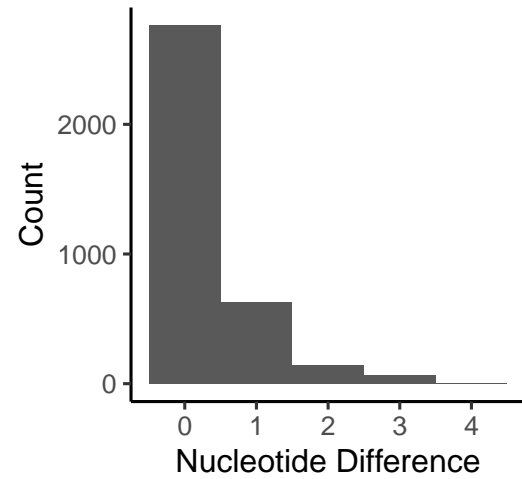
### TRBV12-5\*01

828 sequences assigned  
650 (78.5%) exact matches, in which:  
618 unique CDR3  
13 unique J



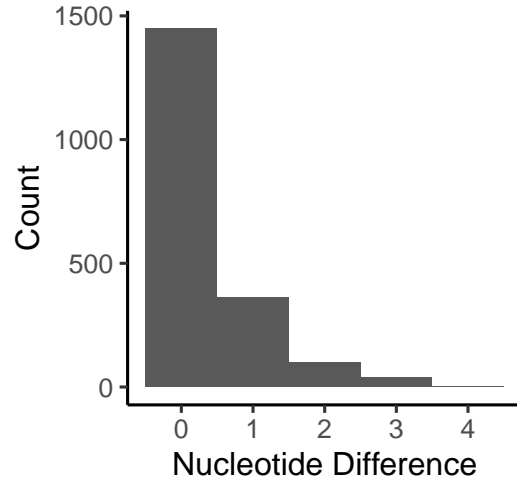
### TRBV4-1\*01

3603 sequences assigned  
2763 (76.7%) exact matches, in which:  
2578 unique CDR3  
13 unique J



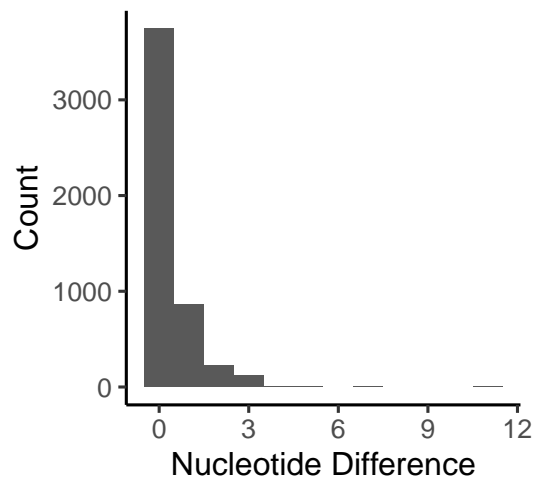
### TRBV12-4\*01

1949 sequences assigned  
1448 (74.3%) exact matches, in which:  
1406 unique CDR3  
13 unique J



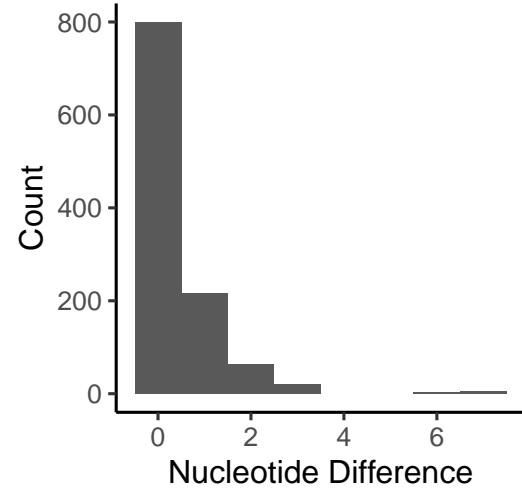
### TRBV3-1\*01

4950 sequences assigned  
3743 (75.6%) exact matches, in which:  
3450 unique CDR3  
13 unique J



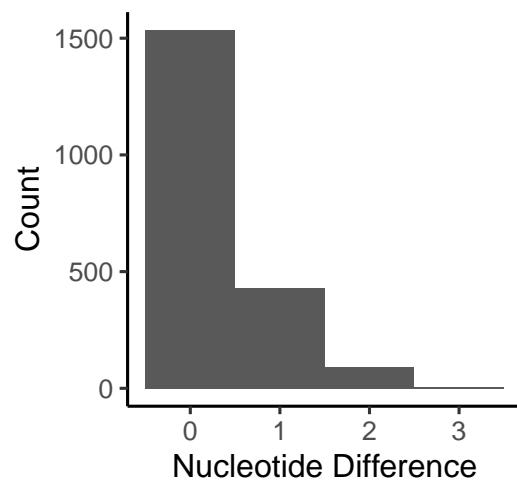
### TRBV24-1\*02

1109 sequences assigned  
800 (72.1%) exact matches, in which:  
752 unique CDR3  
13 unique J



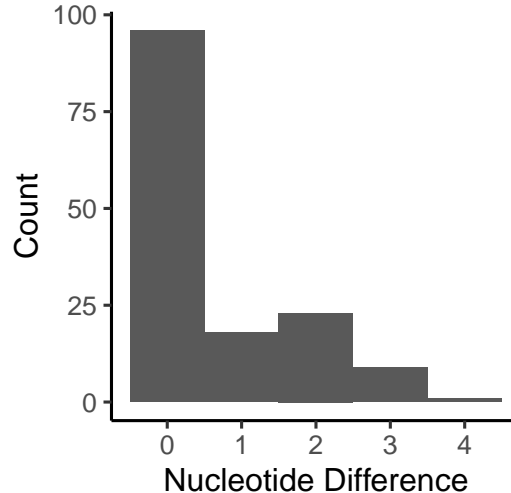
### TRBV12-4\*01\_C87T

2065 sequences assigned  
1535 (74.3%) exact matches, in which:  
1457 unique CDR3  
13 unique J



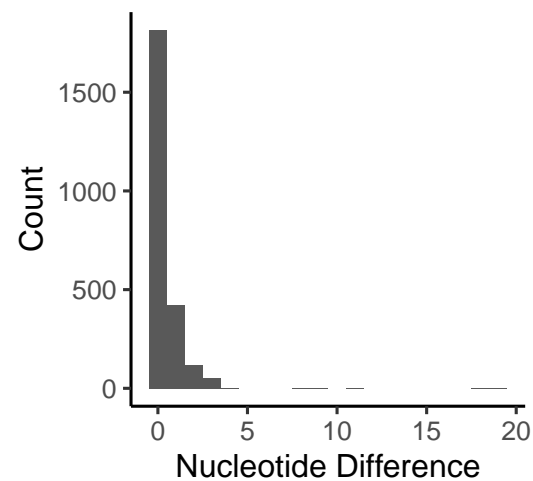
### TRBV23-1\*01

147 sequences assigned  
96 (65.3%) exact matches, in which:  
92 unique CDR3  
11 unique J



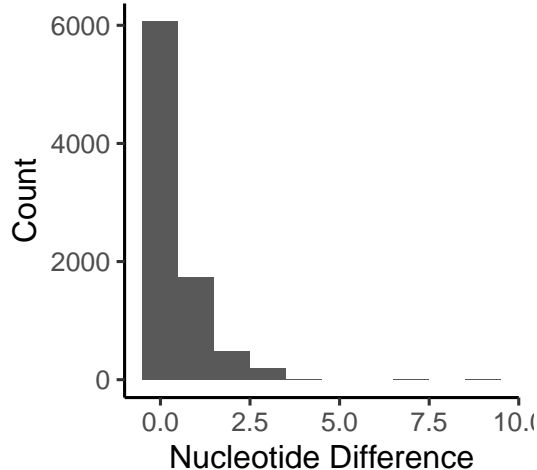
### TRBV4-2\*01

2421 sequences assigned  
1815 (75%) exact matches, in which:  
1612 unique CDR3  
13 unique J



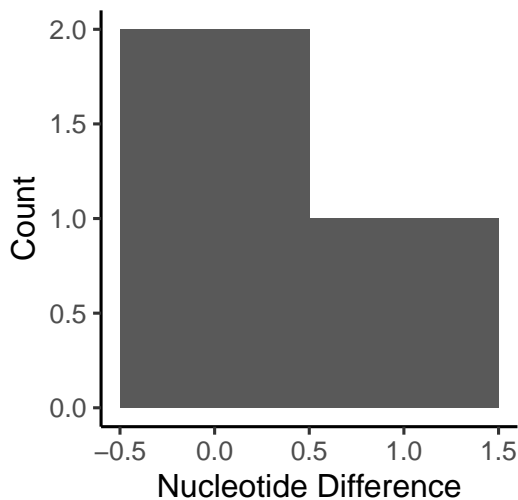
### TRBV5-1\*01

8495 sequences assigned  
6066 (71.4%) exact matches, in which:  
5740 unique CDR3  
13 unique J



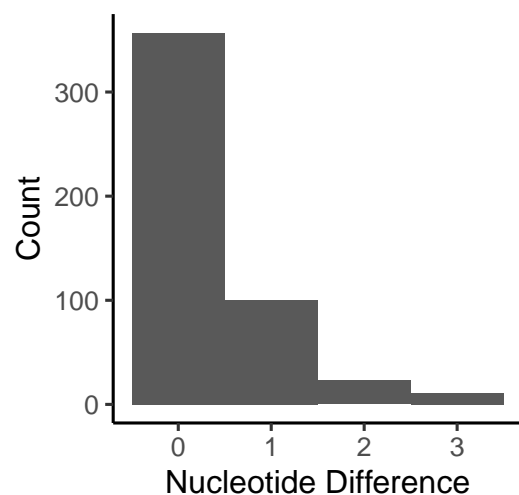
### TRBV5-3\*02

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



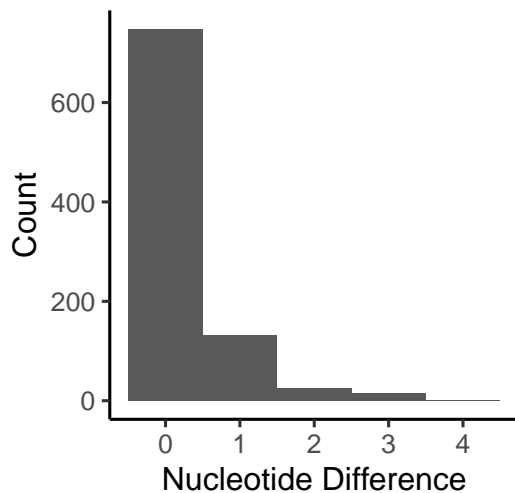
### TRBV5-5\*02\_322TTGG3

491 sequences assigned  
357 (72.7%) exact matches, in which:  
328 unique CDR3  
13 unique J



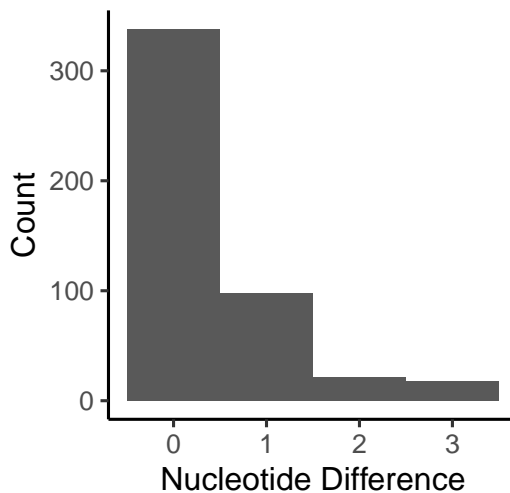
### TRBV25-1\*01

923 sequences assigned  
748 (81%) exact matches, in which:  
719 unique CDR3  
13 unique J



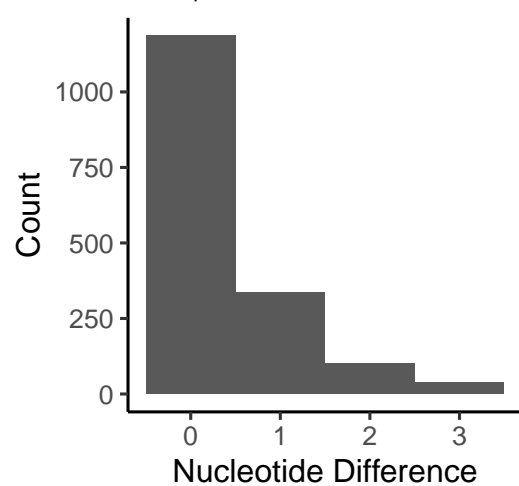
### TRBV5-4\*01

476 sequences assigned  
338 (71%) exact matches, in which:  
306 unique CDR3  
13 unique J



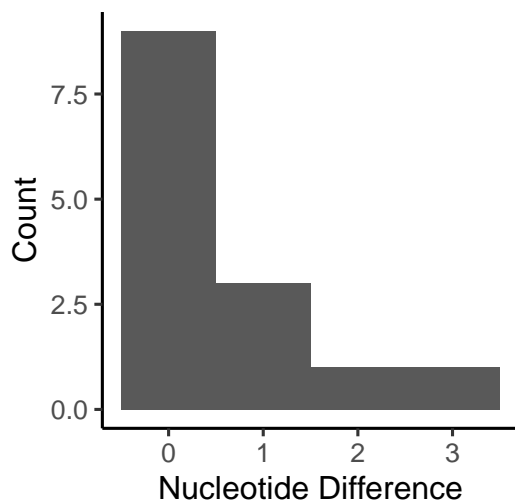
### TRBV5-6\*01

1663 sequences assigned  
1186 (71.3%) exact matches, in which:  
1080 unique CDR3  
13 unique J



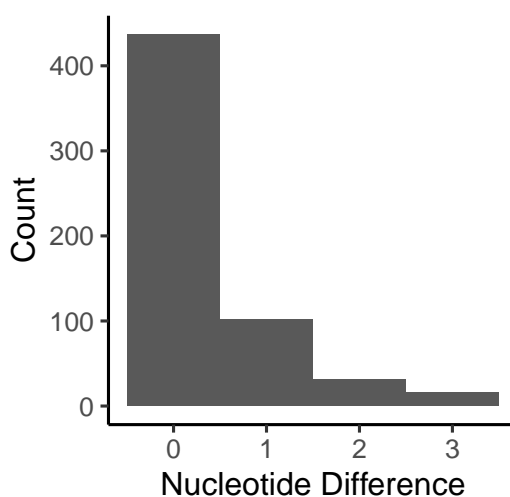
### TRBV5-3\*01

14 sequences assigned  
9 (64.3%) exact matches, in which:  
9 unique CDR3  
7 unique J



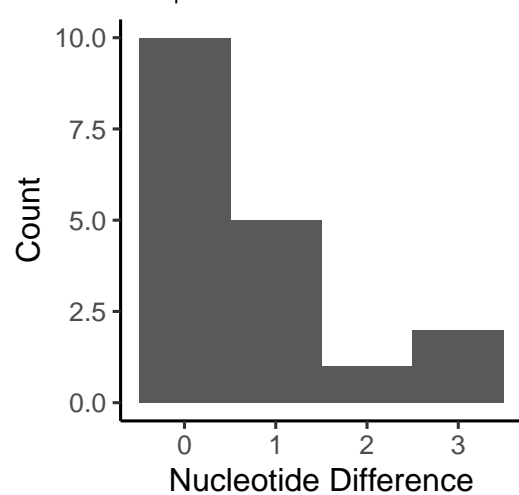
### TRBV5-5\*01

586 sequences assigned  
437 (74.6%) exact matches, in which:  
422 unique CDR3  
13 unique J



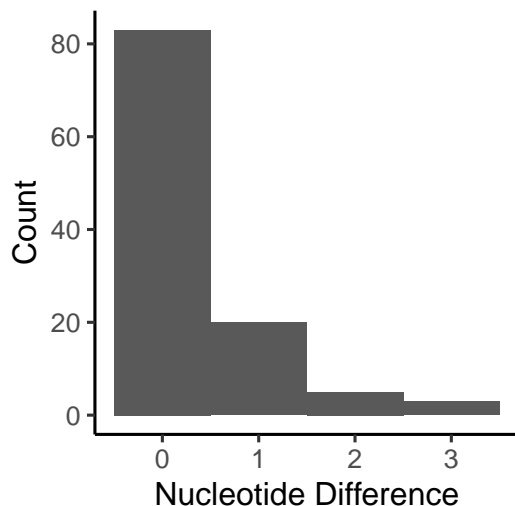
### TRBV5-7\*01

18 sequences assigned  
10 (55.6%) exact matches, in which:  
9 unique CDR3  
6 unique J



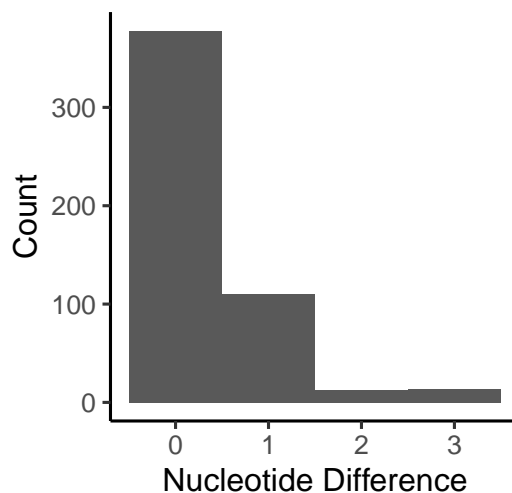
### TRBV5-8\*01

111 sequences assigned  
83 (74.8%) exact matches, in which:  
77 unique CDR3  
12 unique J



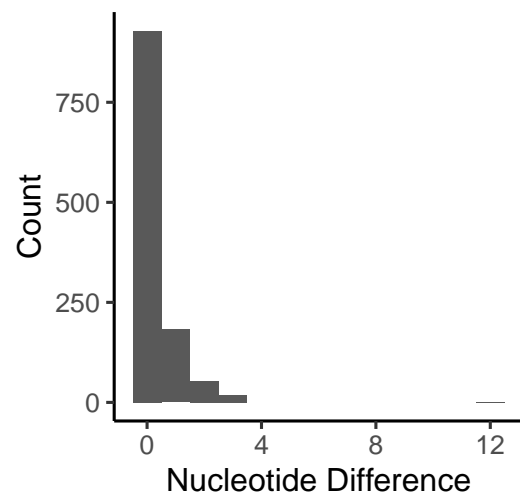
### TRBV6-4\*01

515 sequences assigned  
378 (73.4%) exact matches, in which:  
343 unique CDR3  
13 unique J



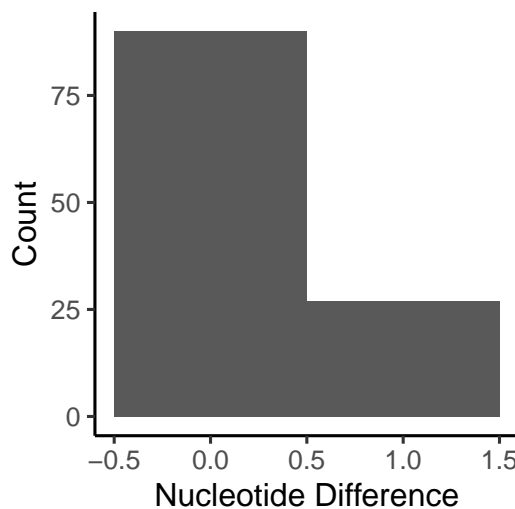
### TRBV6-6\*01

1184 sequences assigned  
929 (78.5%) exact matches, in which:  
880 unique CDR3  
13 unique J



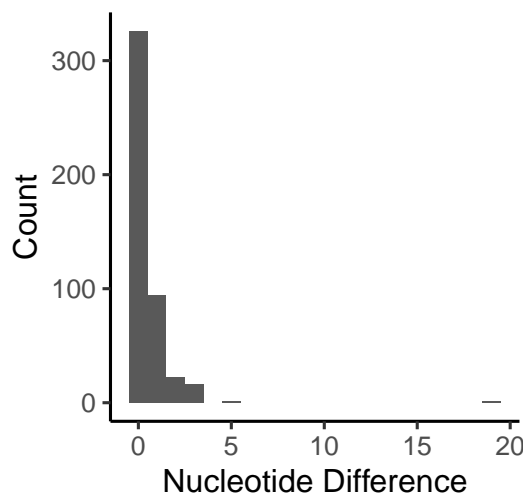
### TRBV5-8\*01\_C56T\_C276

117 sequences assigned  
90 (76.9%) exact matches, in which:  
62 unique CDR3  
13 unique J



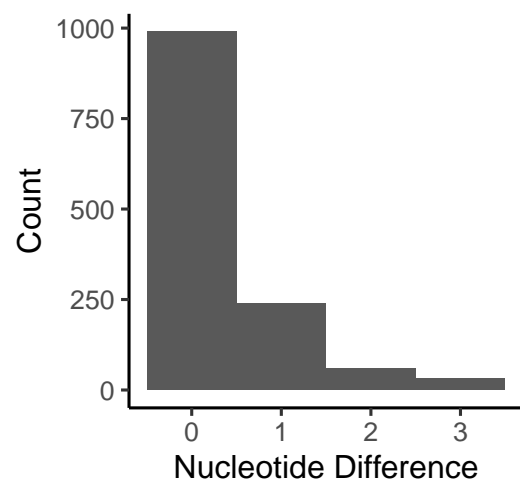
### TRBV6-4\*02

460 sequences assigned  
326 (70.9%) exact matches, in which:  
300 unique CDR3  
13 unique J



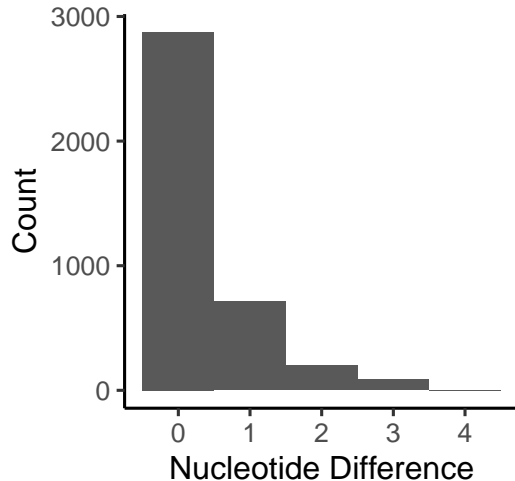
### TRBV6-6\*02

1321 sequences assigned  
990 (74.9%) exact matches, in which:  
915 unique CDR3  
13 unique J



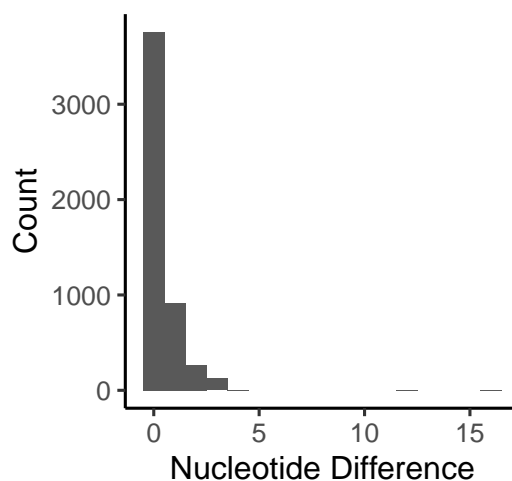
### TRBV6-1\*01

3878 sequences assigned  
2875 (74.1%) exact matches, in which:  
2612 unique CDR3  
13 unique J



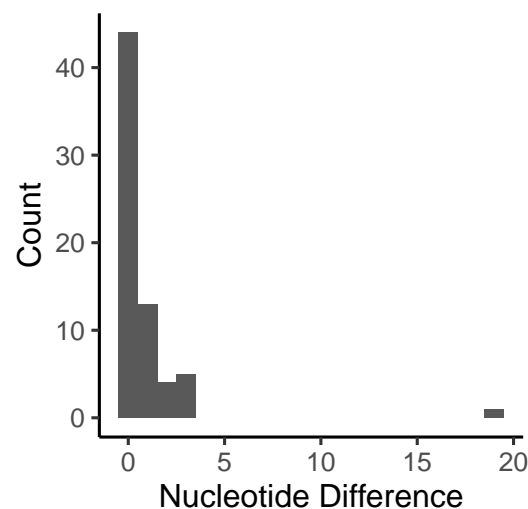
### TRBV6-5\*01

5067 sequences assigned  
3757 (74.1%) exact matches, in which:  
3562 unique CDR3  
13 unique J



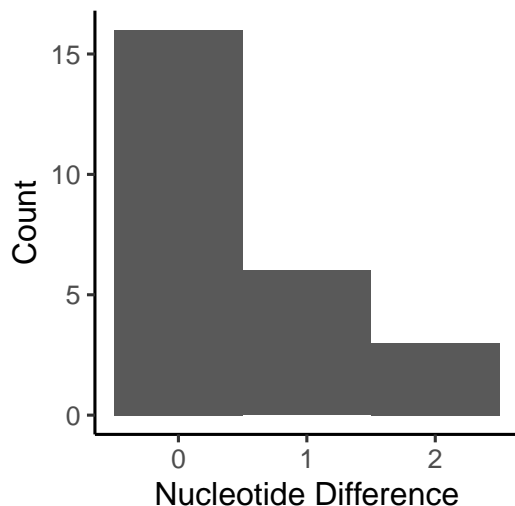
### TRBV6-7\*01

67 sequences assigned  
44 (65.7%) exact matches, in which:  
39 unique CDR3  
11 unique J



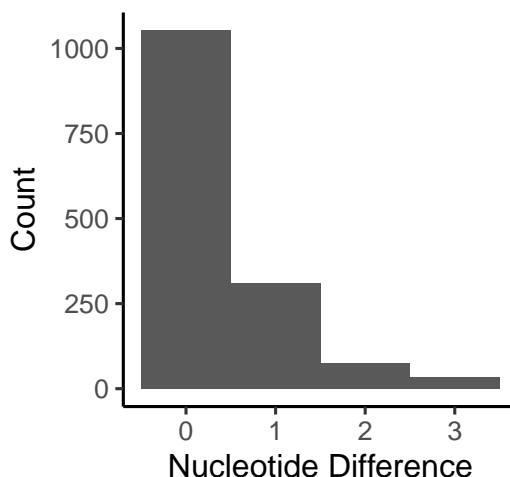
### TRBV6-8\*01

25 sequences assigned  
16 (64%) exact matches, in which:  
16 unique CDR3  
8 unique J



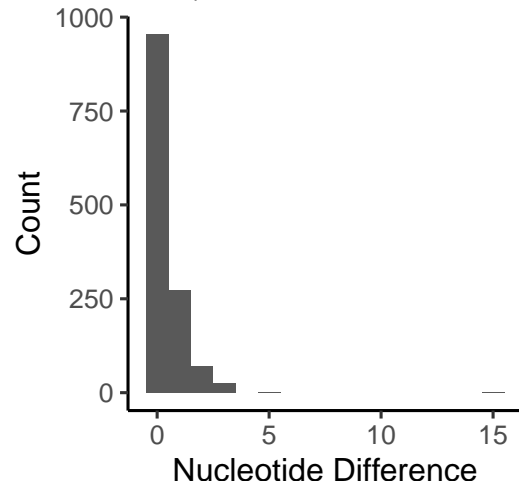
### TRBV6-23\*01

1473 sequences assigned  
1053 (71.5%) exact matches, in which:  
969 unique CDR3  
13 unique J



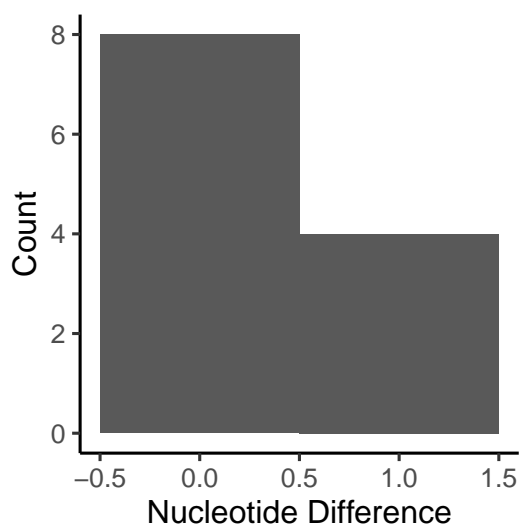
### TRBV7-3\*01

1323 sequences assigned  
954 (72.1%) exact matches, in which:  
885 unique CDR3  
13 unique J



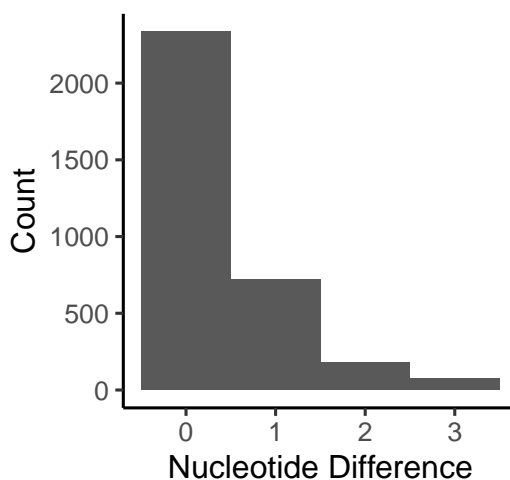
### TRBV6-9\*01

12 sequences assigned  
8 (66.7%) exact matches, in which:  
8 unique CDR3  
6 unique J



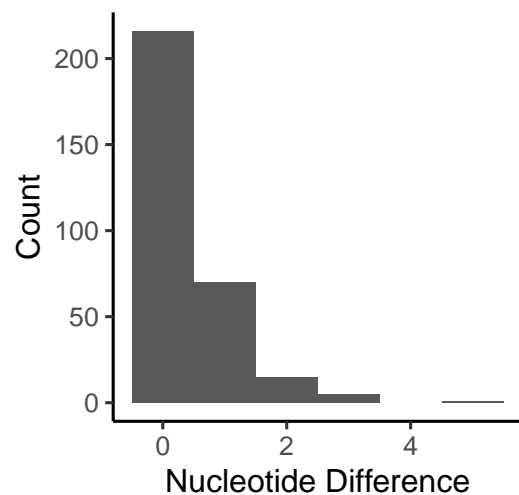
### TRBV7-2\*01

3307 sequences assigned  
2335 (70.6%) exact matches, in which:  
2152 unique CDR3  
13 unique J



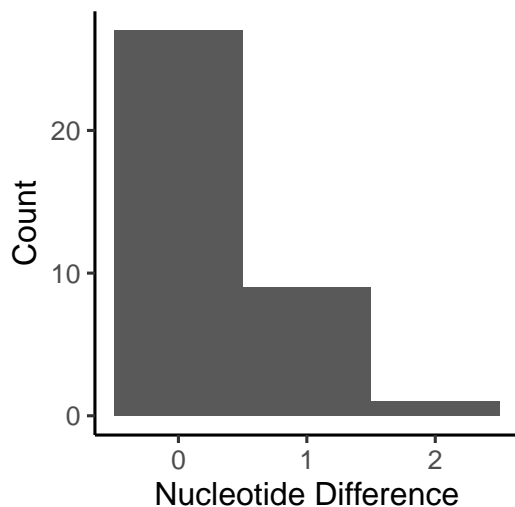
### TRBV7-3\*03

307 sequences assigned  
216 (70.4%) exact matches, in which:  
209 unique CDR3  
13 unique J



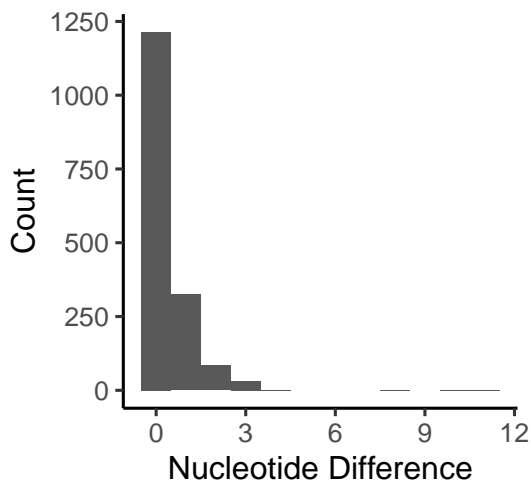
### TRBV6-9\*01\_A303G

37 sequences assigned  
27 (73%) exact matches, in which:  
26 unique CDR3  
11 unique J



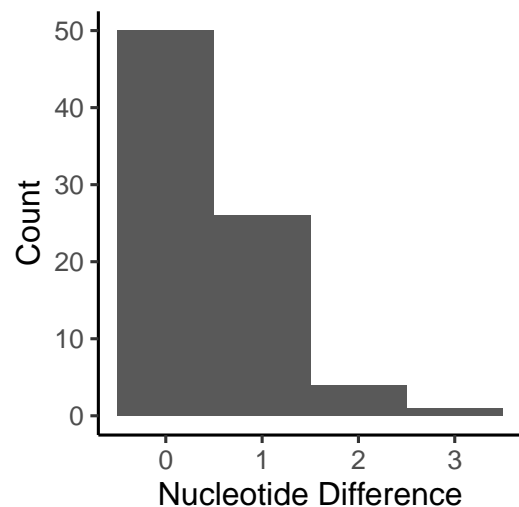
### TRBV7-2\*02

1659 sequences assigned  
1214 (73.2%) exact matches, in which:  
1165 unique CDR3  
13 unique J



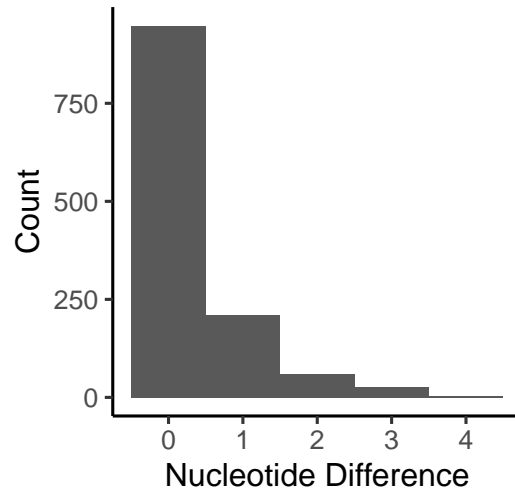
### TRBV7-4\*01

81 sequences assigned  
50 (61.7%) exact matches, in which:  
46 unique CDR3  
11 unique J



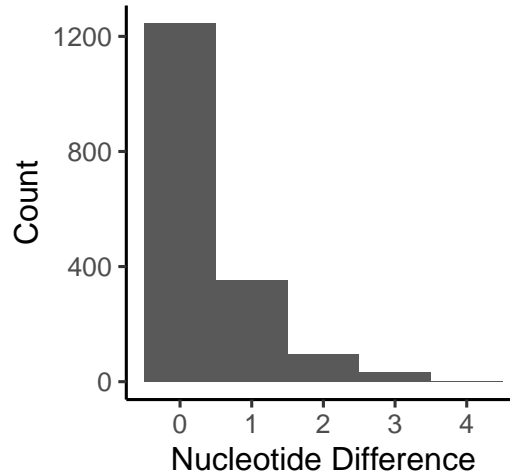
### TRBV7-6\*01

1247 sequences assigned  
948 (76%) exact matches, in which:  
886 unique CDR3  
13 unique J



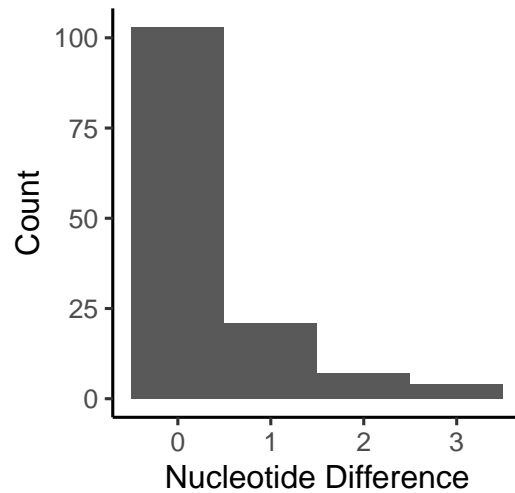
### TRBV7-8\*01

1727 sequences assigned  
1245 (72.1%) exact matches, in which:  
1114 unique CDR3  
13 unique J



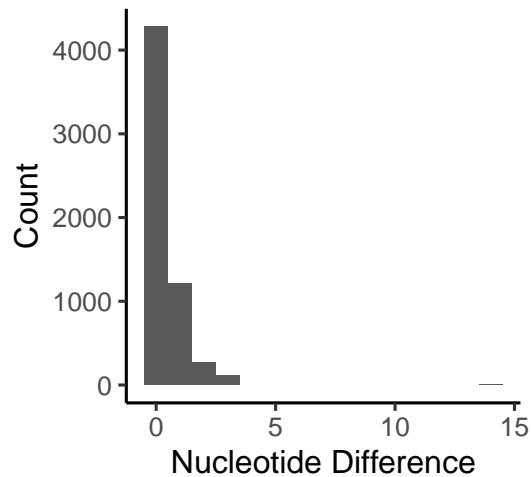
### TRBV7-7\*01

135 sequences assigned  
103 (76.3%) exact matches, in which:  
96 unique CDR3  
11 unique J



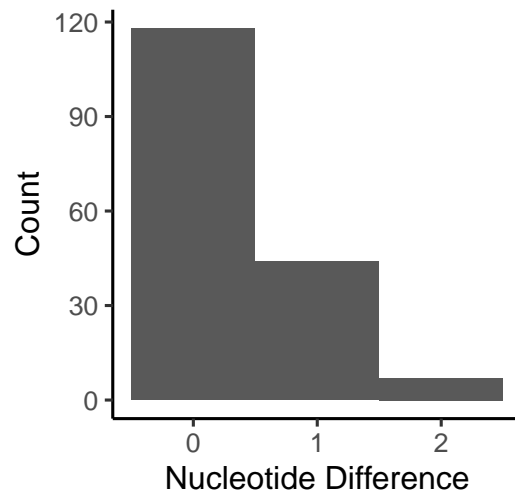
### TRBV7-9\*03

5883 sequences assigned  
4279 (72.7%) exact matches, in which:  
4034 unique CDR3  
13 unique J



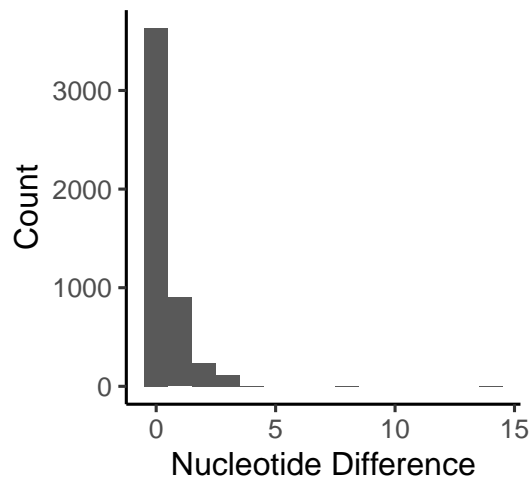
### TRBV7-7\*01\_C315T

169 sequences assigned  
118 (69.8%) exact matches, in which:  
111 unique CDR3  
11 unique J



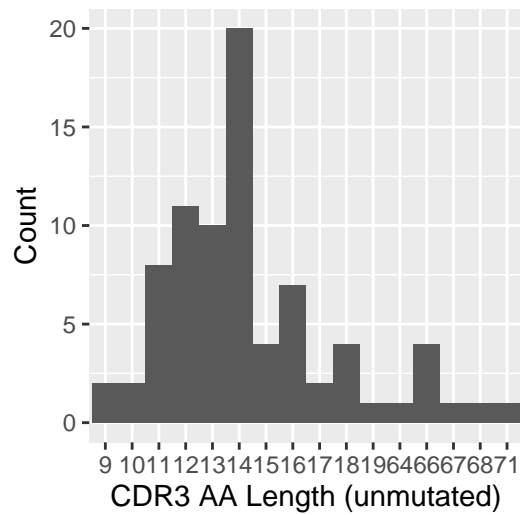
### TRBV29-1\*01

4892 sequences assigned  
3633 (74.3%) exact matches, in which:  
3401 unique CDR3  
13 unique J

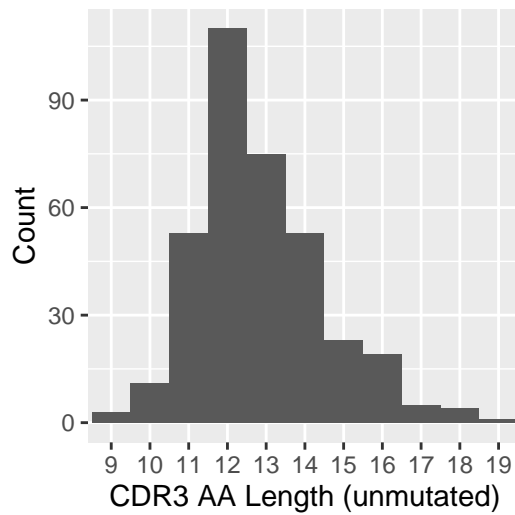




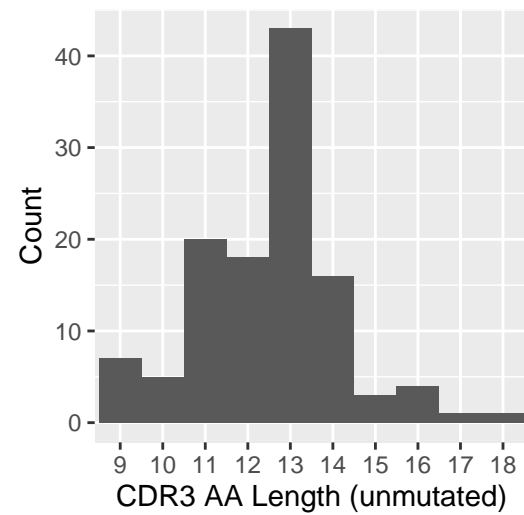
TRBV12-2\*01\_T187C



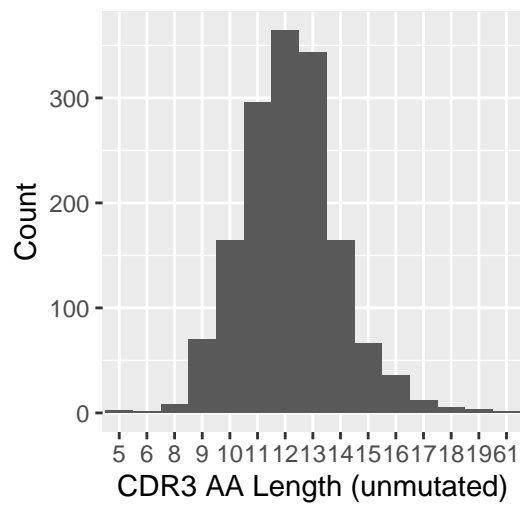
TRBV5-5\*02\_322TTGG325



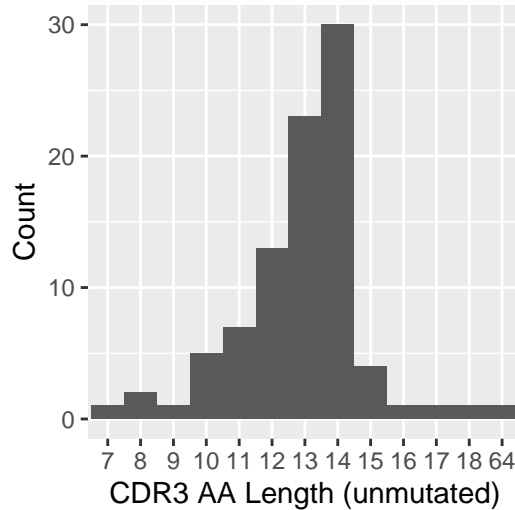
TRBV7-7\*01\_C315T



TRBV12-4\*01\_C87T



TRBV5-8\*01\_C56T\_C276T



TRBV20-1\*02\_319AGAGA

