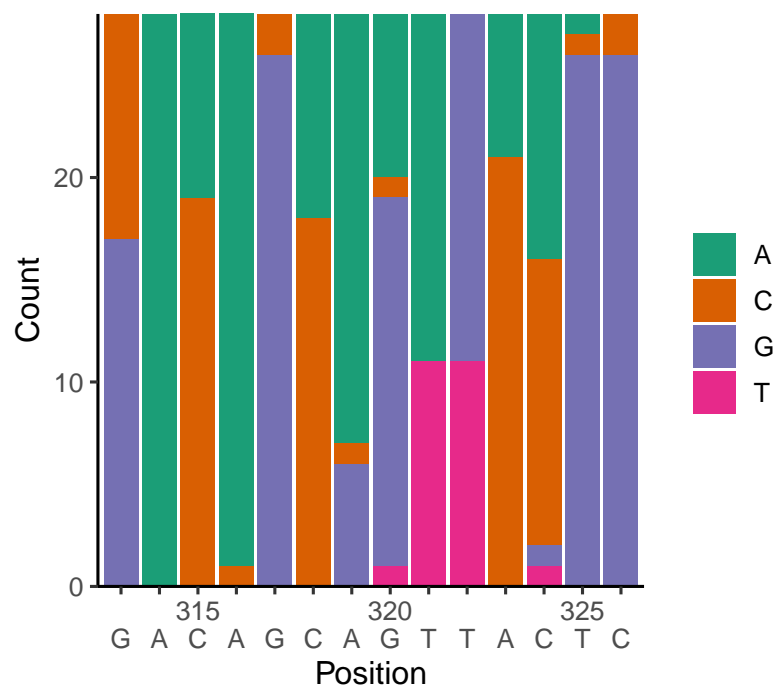
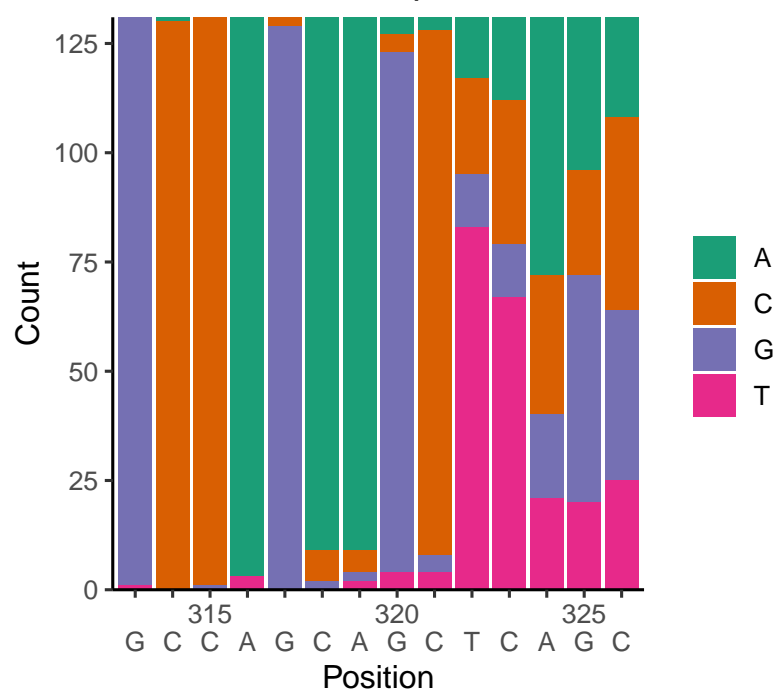


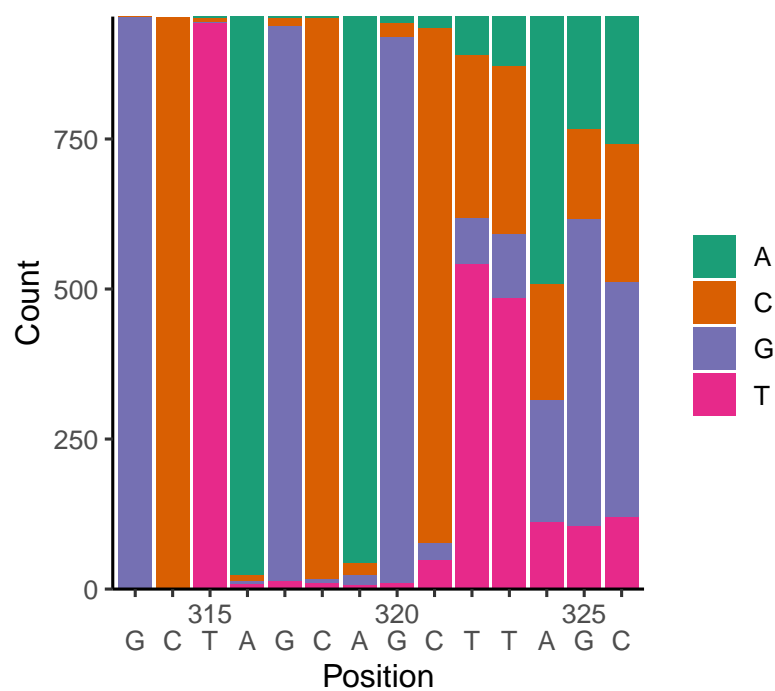
Gene TRBV6-8\*ap01\_C314A



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



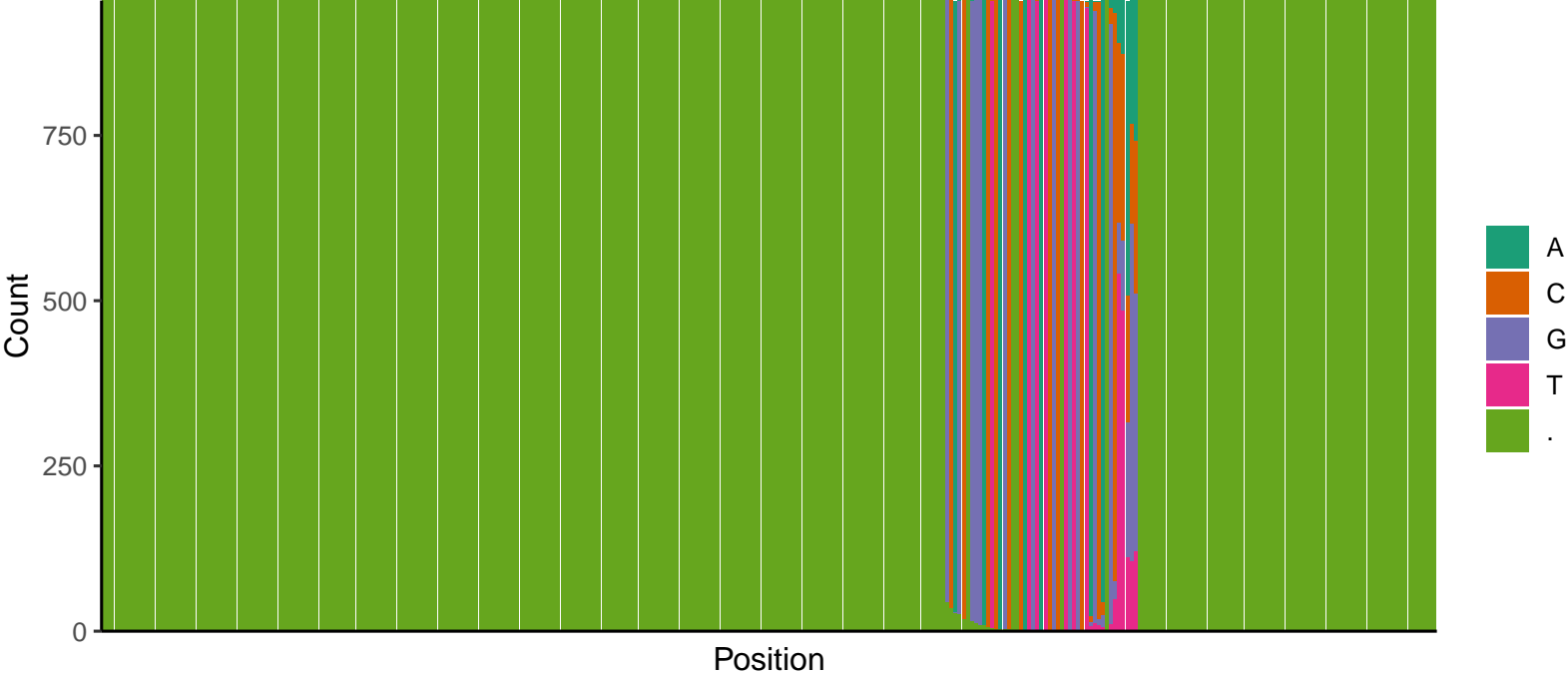
Gene TRBV6-8\*ap01\_C314A



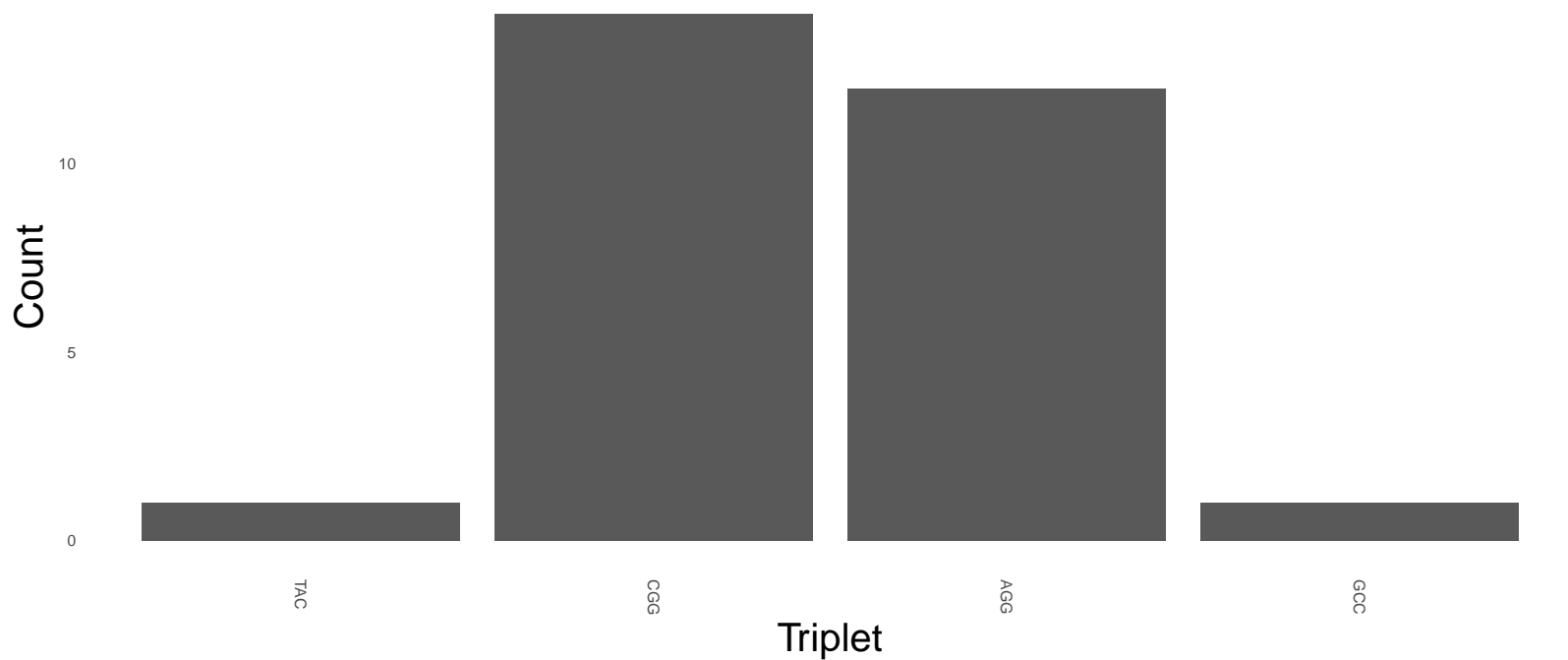
Gene TRBV7-1\*ap01\_G291C\_T296C



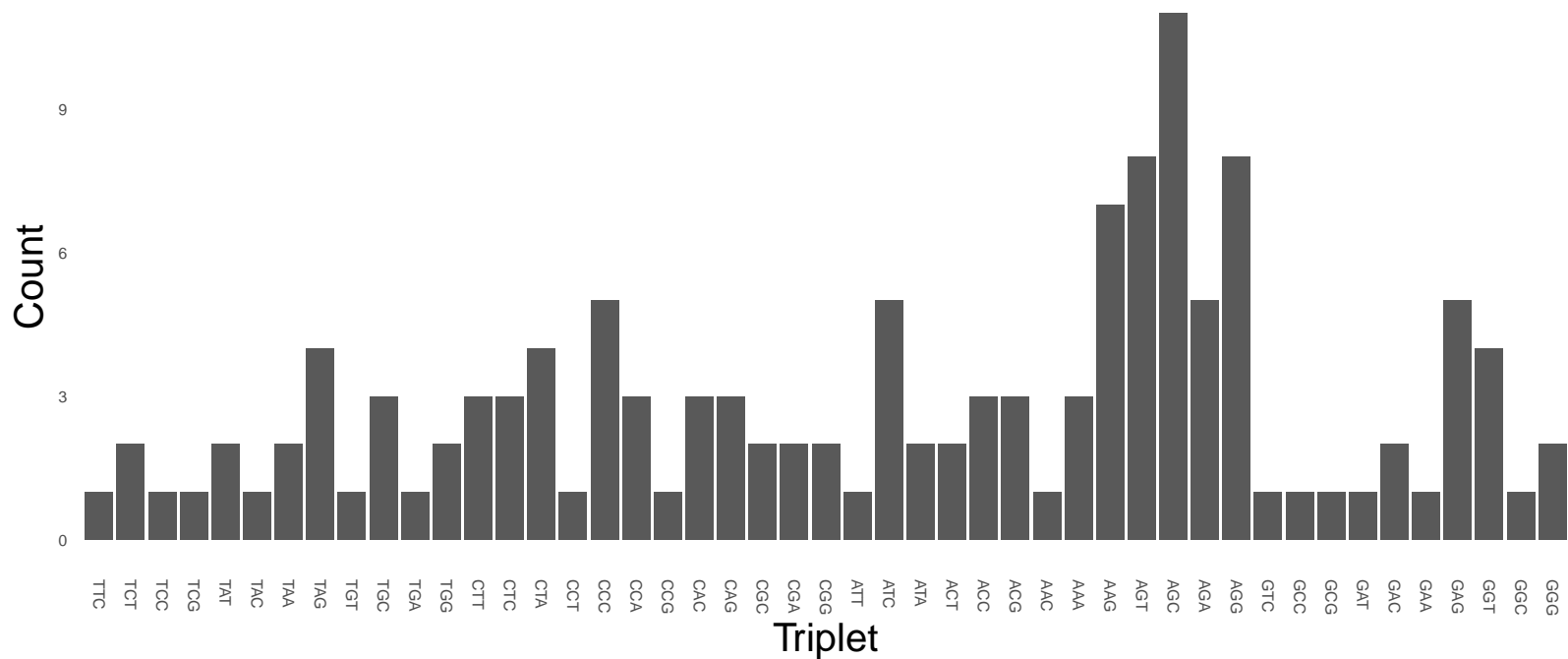
Gene TRBV7-7\*ap01\_C315T



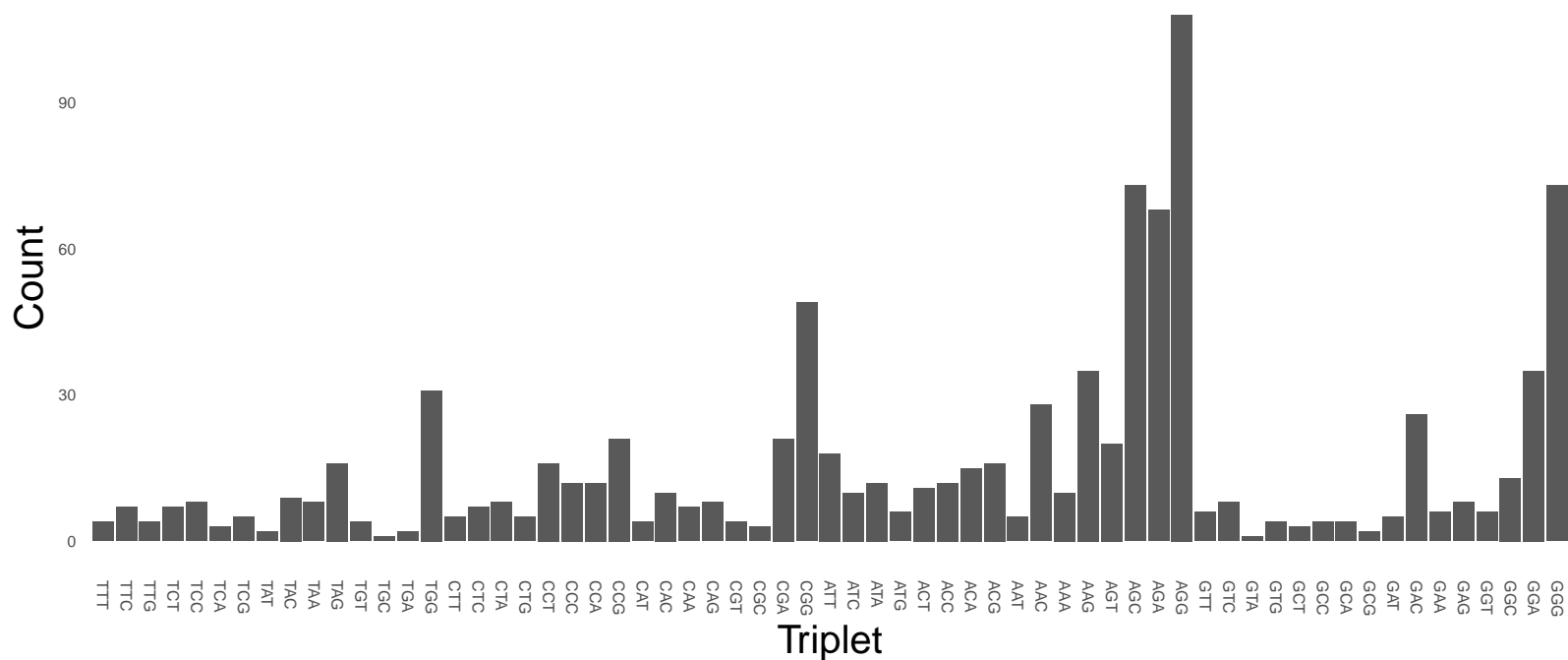
TRBV6-8\*ap01\_C314A- Final 3 nucleotides as a triplet



TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet

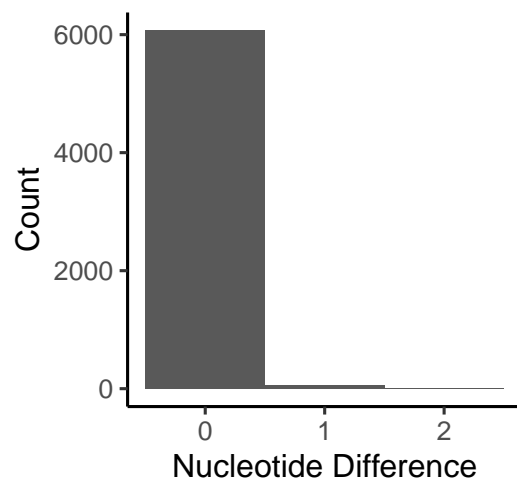


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



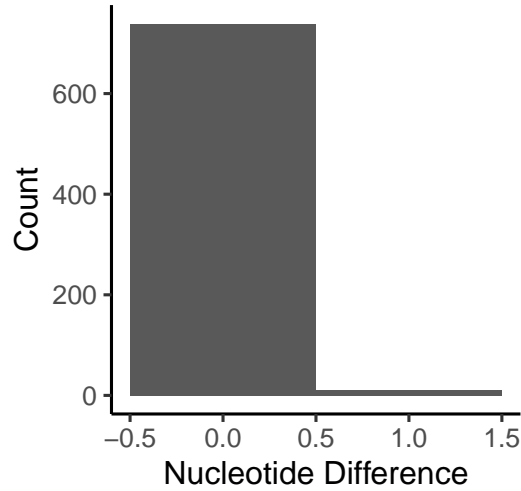
### TRBV20-1\*ap01

6129 sequences assigned  
6072 (99.1%) exact matches, in which:  
5964 unique CDR3  
13 unique J



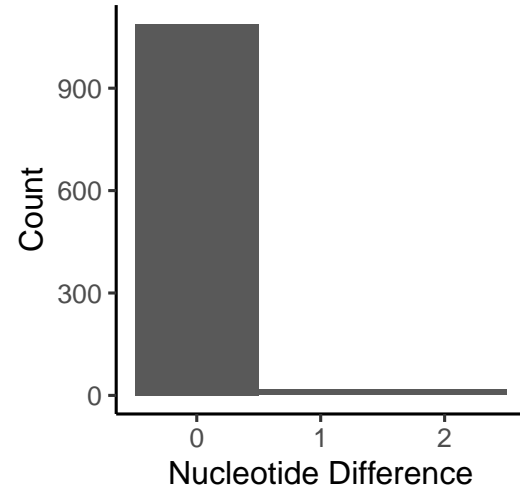
### TRBV10-2\*ap01

749 sequences assigned  
739 (98.7%) exact matches, in which:  
719 unique CDR3  
13 unique J



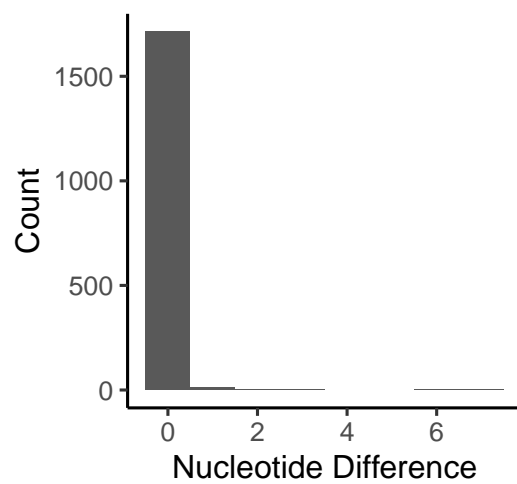
### TRBV13\*ap01

1123 sequences assigned  
1089 (97%) exact matches, in which:  
1066 unique CDR3  
13 unique J



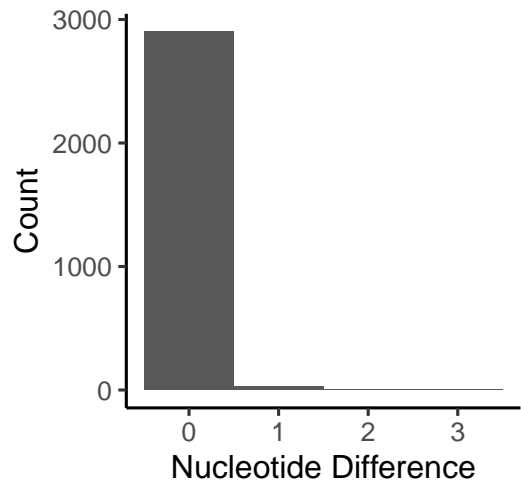
### TRBV10-1\*ap01

1732 sequences assigned  
1713 (98.9%) exact matches, in which:  
1688 unique CDR3  
13 unique J



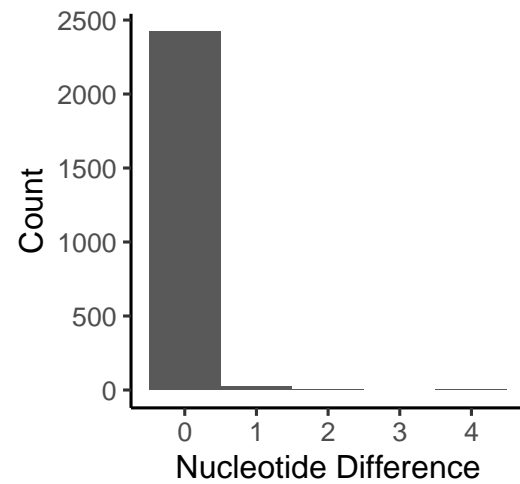
### TRBV10-3\*ap01

2937 sequences assigned  
2901 (98.8%) exact matches, in which:  
2843 unique CDR3  
13 unique J



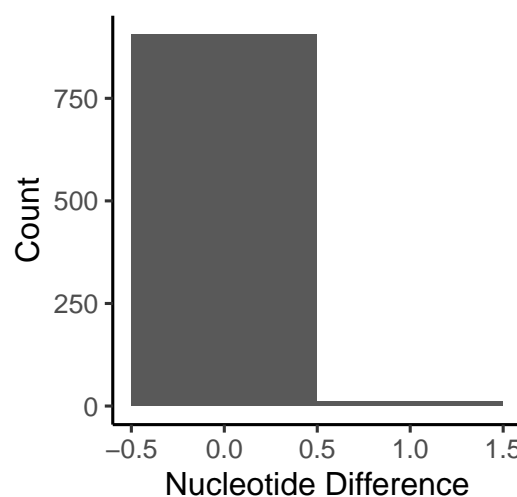
### TRBV14\*ap01

2446 sequences assigned  
2421 (99%) exact matches, in which:  
2381 unique CDR3  
13 unique J



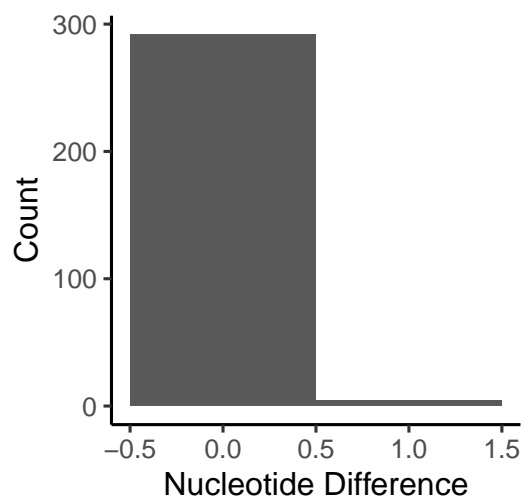
### TRBV20-1\*ap02

916 sequences assigned  
906 (98.9%) exact matches, in which:  
888 unique CDR3  
13 unique J



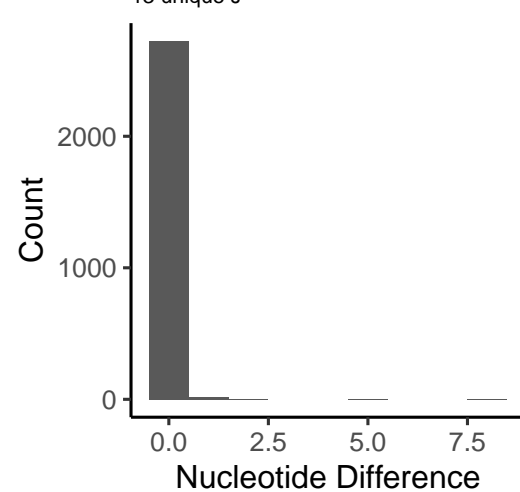
### TRBV1\*ap01

296 sequences assigned  
292 (98.6%) exact matches, in which:  
286 unique CDR3  
13 unique J



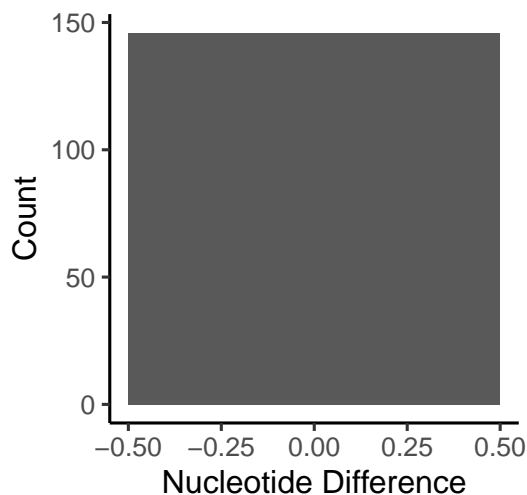
### TRBV15\*ap02

2745 sequences assigned  
2724 (99.2%) exact matches, in which:  
2670 unique CDR3  
13 unique J



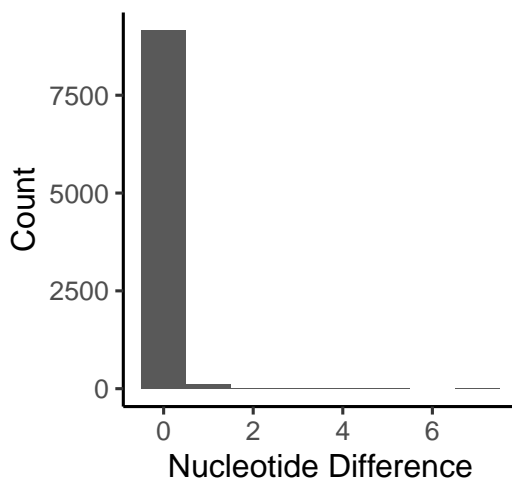
### TRBV16\*ap01

146 sequences assigned  
146 (100%) exact matches, in which:  
146 unique CDR3  
13 unique J



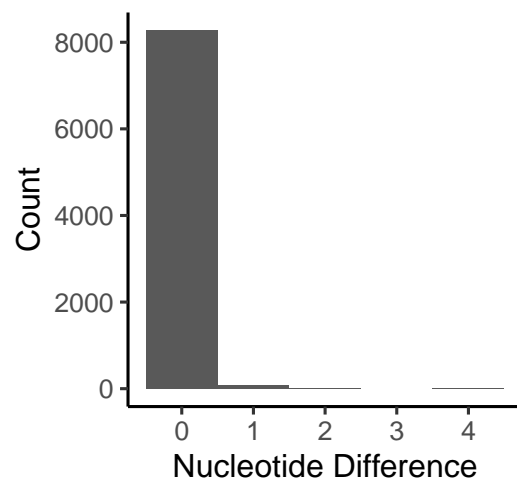
### TRBV19\*ap01

9277 sequences assigned  
9157 (98.7%) exact matches, in which:  
9016 unique CDR3  
13 unique J



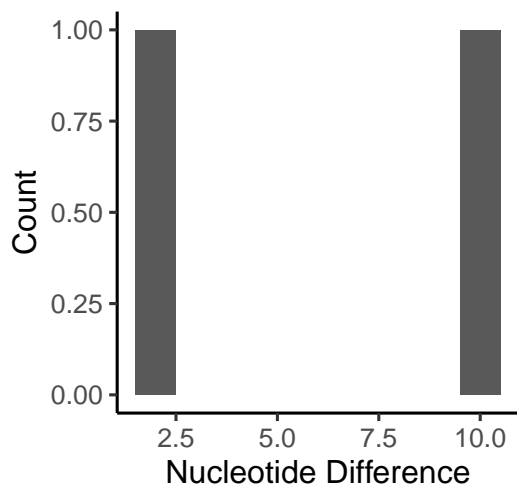
### TRBV28\*ap01

8364 sequences assigned  
8274 (98.9%) exact matches, in which:  
8095 unique CDR3  
13 unique J



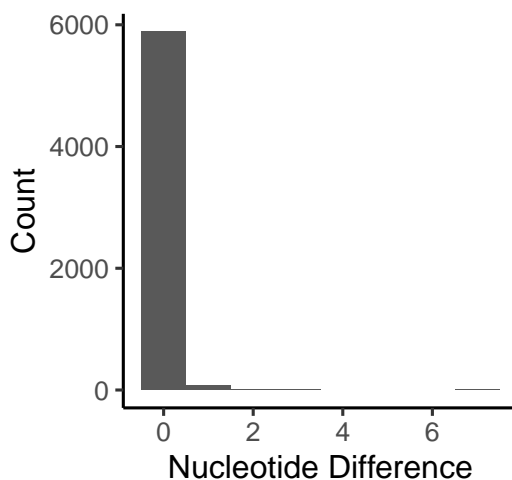
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



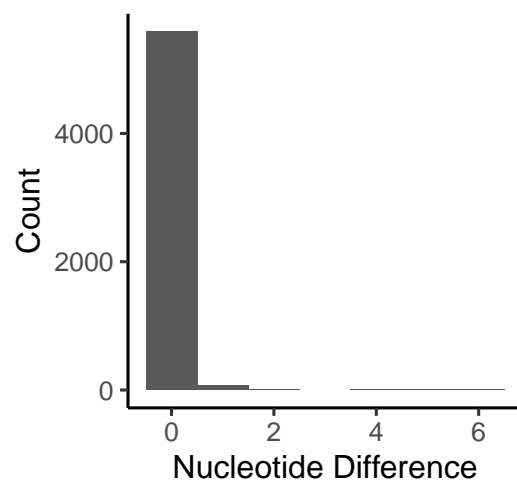
### TRBV2\*ap01

5972 sequences assigned  
5886 (98.6%) exact matches, in which:  
5795 unique CDR3  
13 unique J



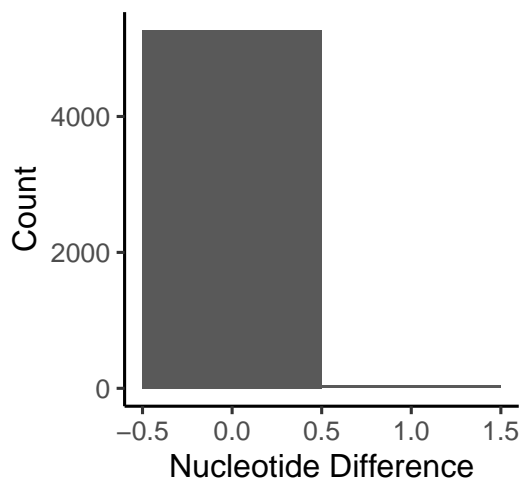
### TRBV30\*ap01

5666 sequences assigned  
5586 (98.6%) exact matches, in which:  
5535 unique CDR3  
13 unique J



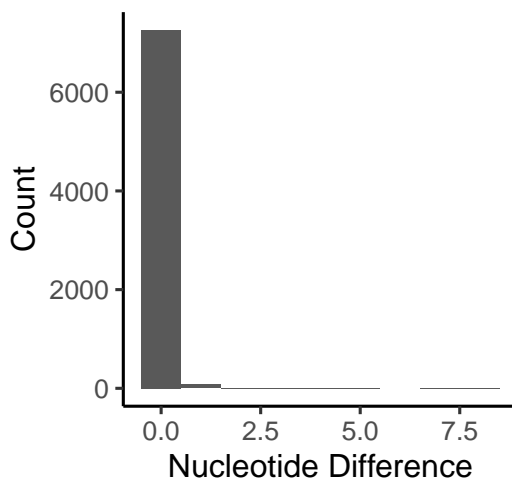
### TRBV18\*ap01

5312 sequences assigned  
5272 (99.2%) exact matches, in which:  
5170 unique CDR3  
13 unique J



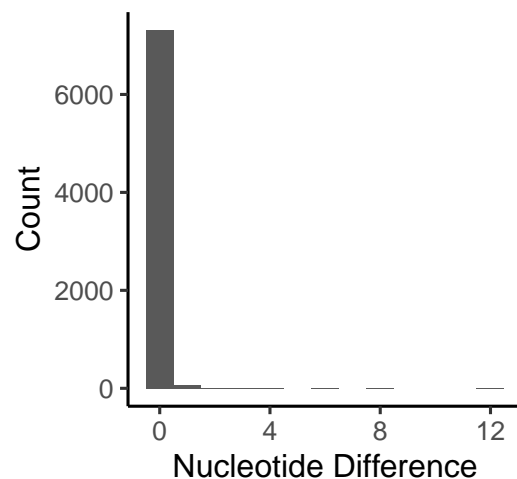
### TRBV27\*ap01

7355 sequences assigned  
7260 (98.7%) exact matches, in which:  
7113 unique CDR3  
13 unique J



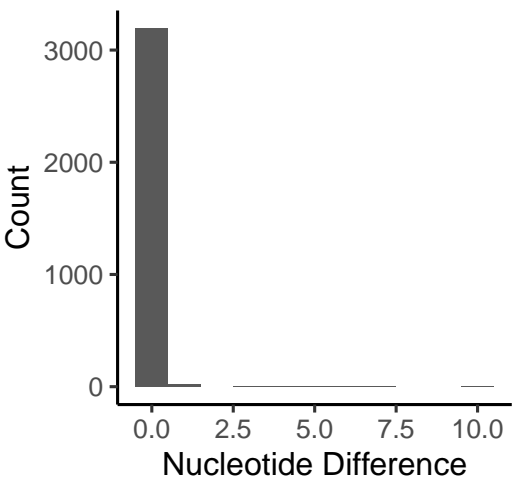
### TRBV9\*ap01

7395 sequences assigned  
7315 (98.9%) exact matches, in which:  
7158 unique CDR3  
13 unique J



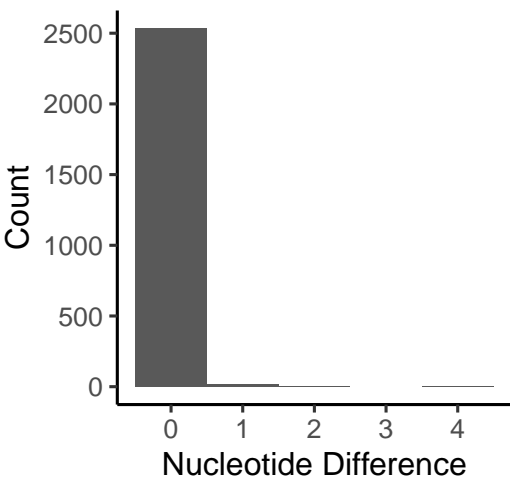
TRBV21-1\*ap01

3235 sequences assigned  
3193 (98.7%) exact matches, in which:  
3133 unique CDR3  
13 unique J



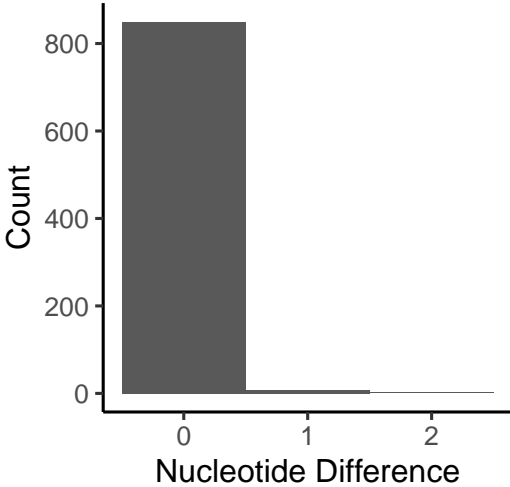
TRBV11-3\*ap01

2555 sequences assigned  
2534 (99.2%) exact matches, in which:  
2488 unique CDR3  
13 unique J



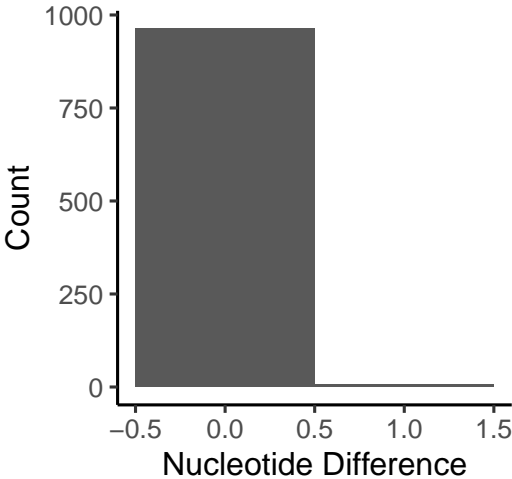
TRBV12-5\*ap01

860 sequences assigned  
850 (98.8%) exact matches, in which:  
831 unique CDR3  
13 unique J



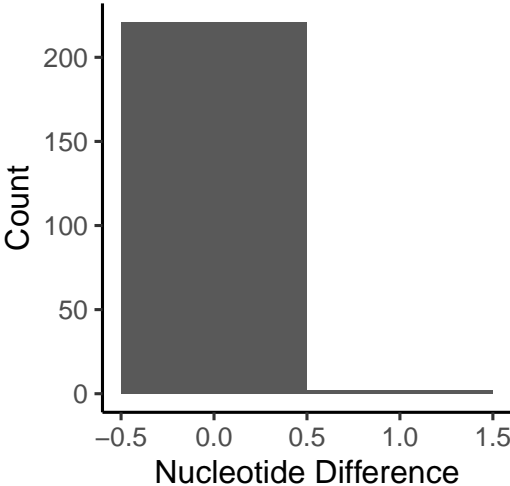
TRBV11-1\*ap01

971 sequences assigned  
963 (99.2%) exact matches, in which:  
937 unique CDR3  
13 unique J



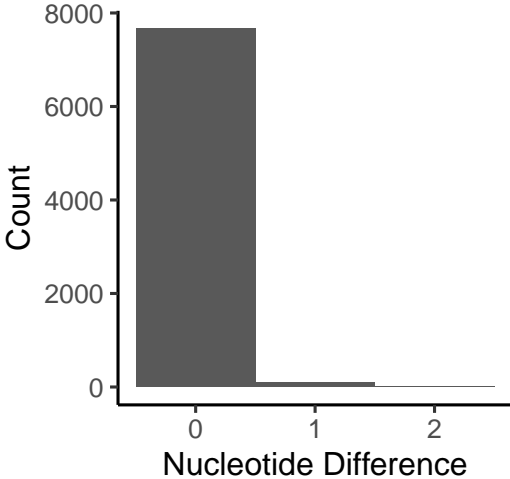
TRBV12-1\*ap01

223 sequences assigned  
221 (99.1%) exact matches, in which:  
212 unique CDR3  
13 unique J



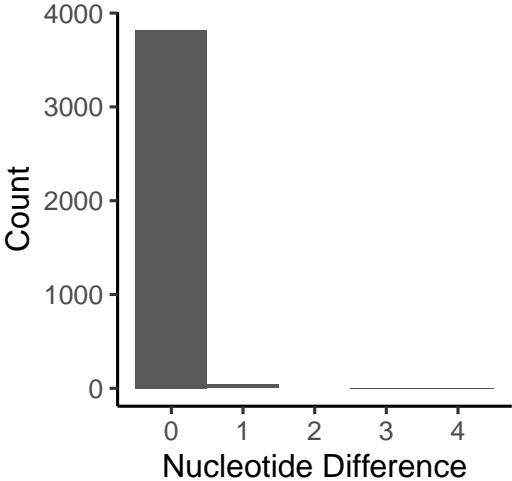
TRBV12-34\*ap01

7761 sequences assigned  
7663 (98.7%) exact matches, in which:  
7518 unique CDR3  
13 unique J



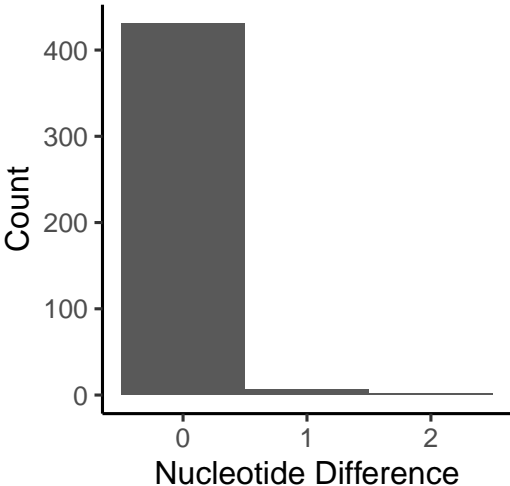
TRBV11-2\*ap01

3863 sequences assigned  
3819 (98.9%) exact matches, in which:  
3745 unique CDR3  
13 unique J



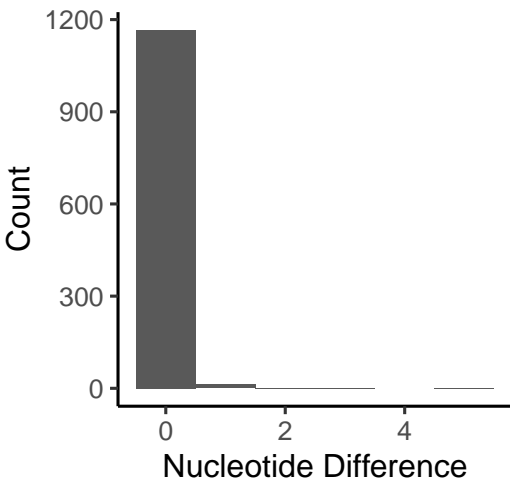
TRBV12-2\*ap01

439 sequences assigned  
431 (98.2%) exact matches, in which:  
423 unique CDR3  
13 unique J



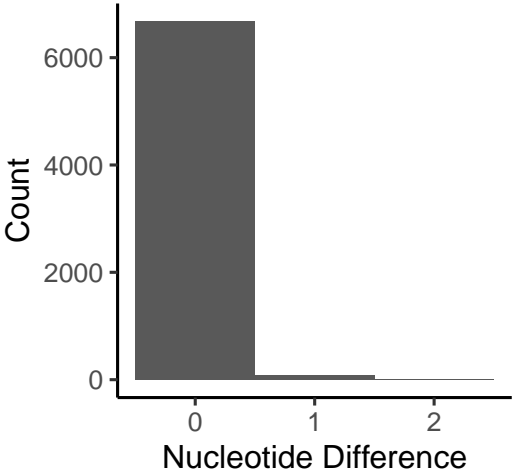
TRBV23-1\*ap01

1181 sequences assigned  
1166 (98.7%) exact matches, in which:  
1142 unique CDR3  
13 unique J



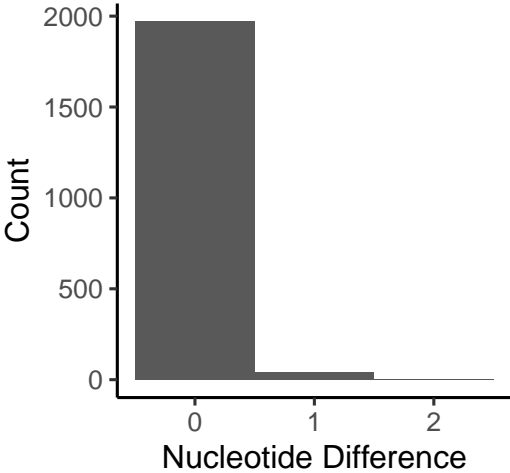
TRBV3-12\*ap01

6770 sequences assigned  
6675 (98.6%) exact matches, in which:  
6567 unique CDR3  
13 unique J



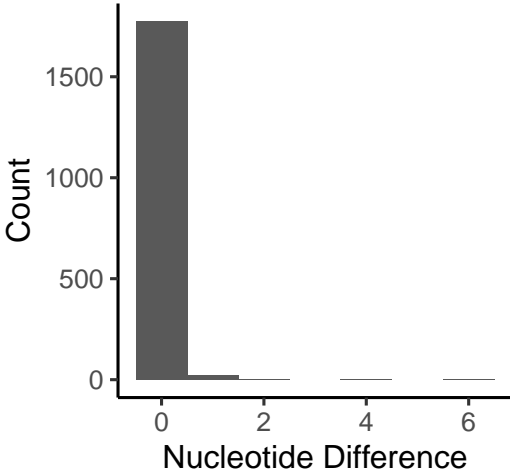
TRBV4-2\*ap01

2015 sequences assigned  
1971 (97.8%) exact matches, in which:  
1939 unique CDR3  
13 unique J



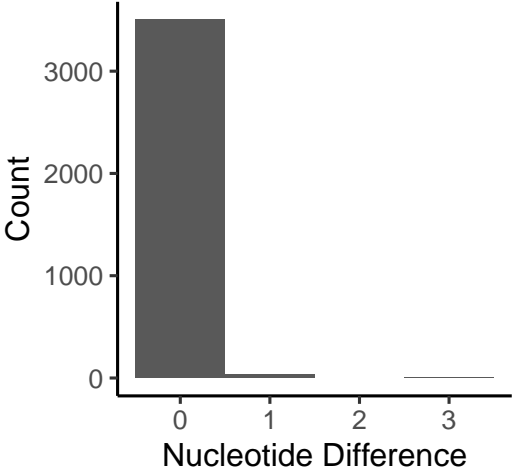
TRBV25-1\*ap01

1801 sequences assigned  
1774 (98.5%) exact matches, in which:  
1751 unique CDR3  
13 unique J



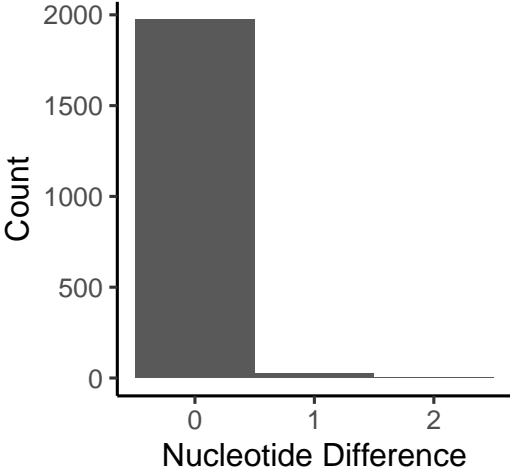
TRBV4-1\*ap01

3537 sequences assigned  
3503 (99%) exact matches, in which:  
3446 unique CDR3  
13 unique J



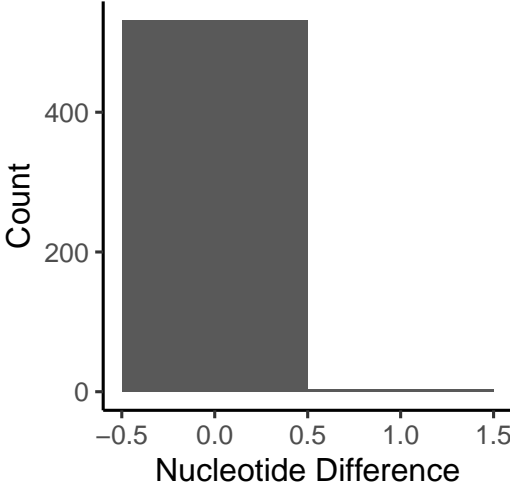
TRBV4-3\*ap01

1999 sequences assigned  
1973 (98.7%) exact matches, in which:  
1944 unique CDR3  
13 unique J



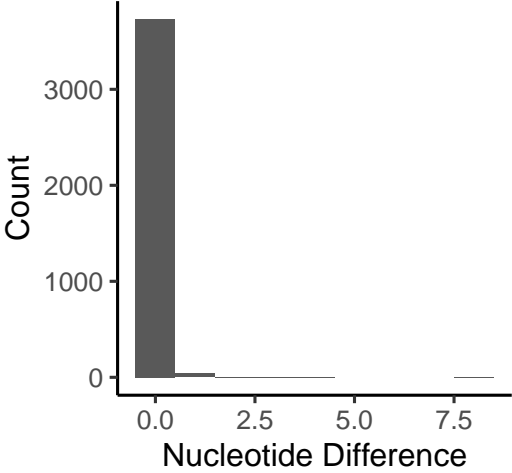
TRBV5-3\*ap01

536 sequences assigned  
532 (99.3%) exact matches, in which:  
522 unique CDR3  
13 unique J



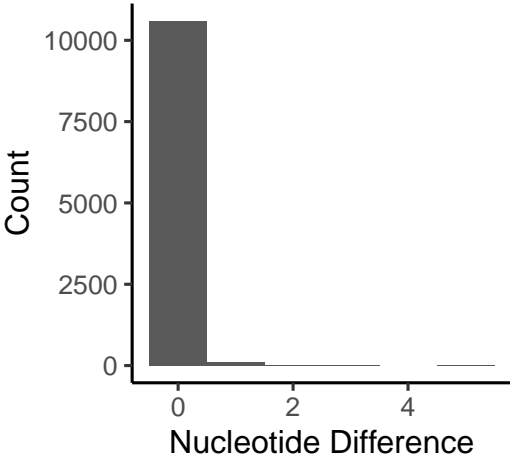
TRBV24-1\*ap01

3776 sequences assigned  
3732 (98.8%) exact matches, in which:  
3687 unique CDR3  
13 unique J



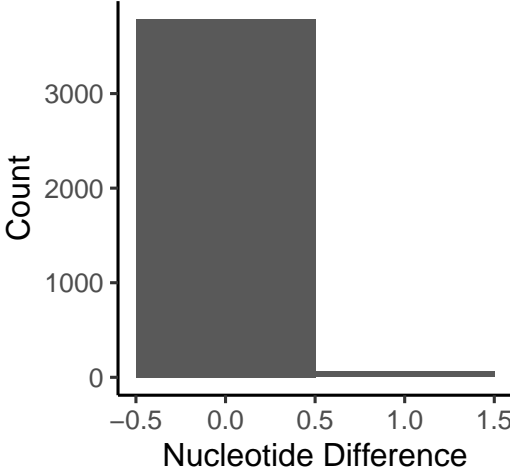
TRBV5-1\*ap01

10705 sequences assigned  
10600 (99%) exact matches, in which:  
10382 unique CDR3  
13 unique J



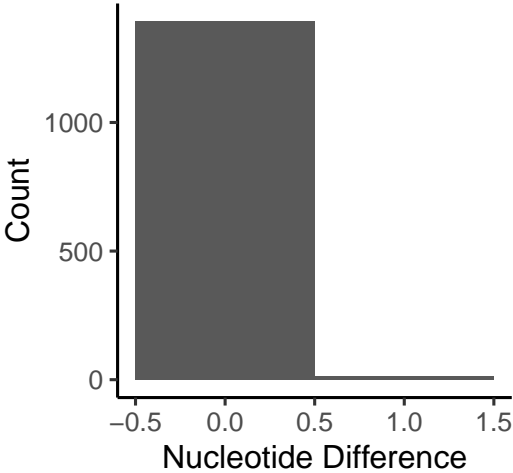
TRBV5-4\*ap01

3848 sequences assigned  
3788 (98.4%) exact matches, in which:  
3729 unique CDR3  
13 unique J



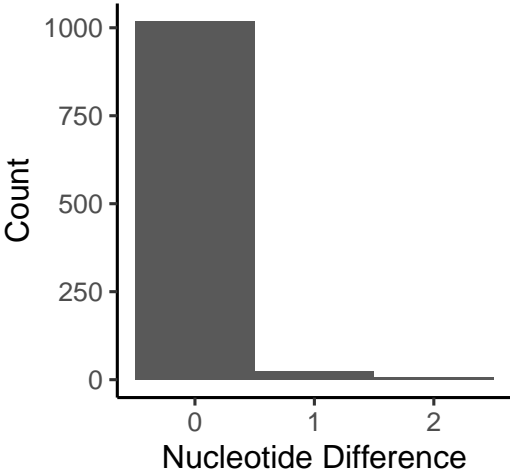
TRBV5-5\*ap01

1407 sequences assigned  
1393 (99%) exact matches, in which:  
1374 unique CDR3  
13 unique J



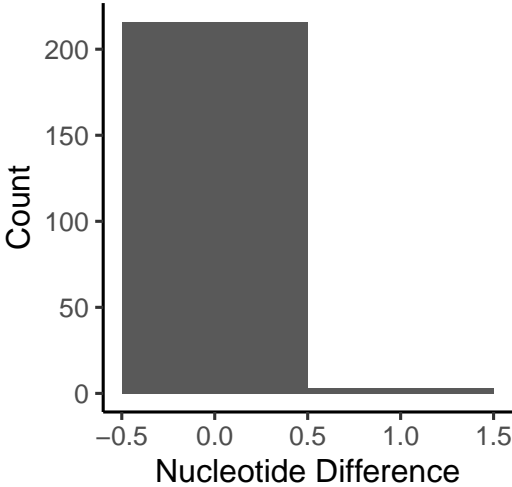
TRBV5-8\*ap01

1048 sequences assigned  
1018 (97.1%) exact matches, in which:  
995 unique CDR3  
13 unique J



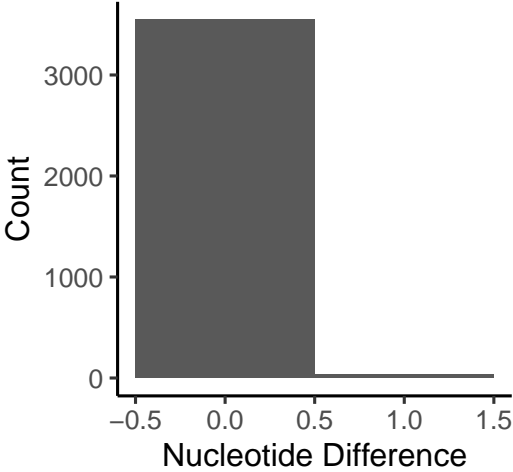
TRBV6-7\*ap01

219 sequences assigned  
216 (98.6%) exact matches, in which:  
211 unique CDR3  
13 unique J



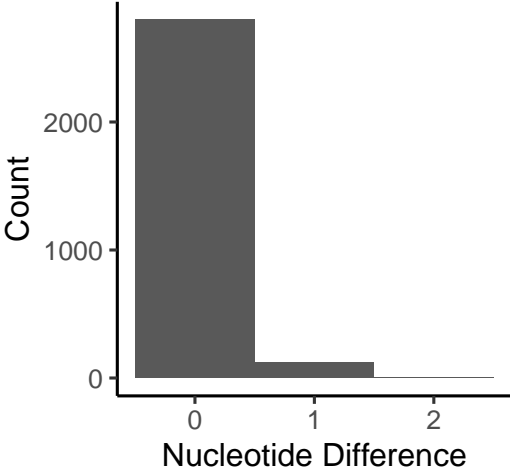
TRBV5-6\*ap01

3584 sequences assigned  
3547 (99%) exact matches, in which:  
3486 unique CDR3  
13 unique J



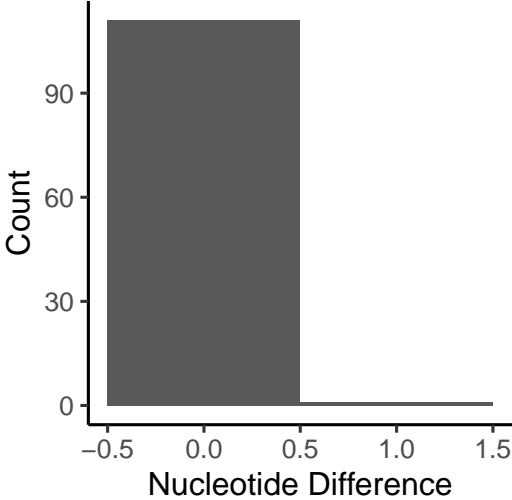
TRBV6-1\*ap01

2920 sequences assigned  
2799 (95.9%) exact matches, in which:  
2745 unique CDR3  
13 unique J



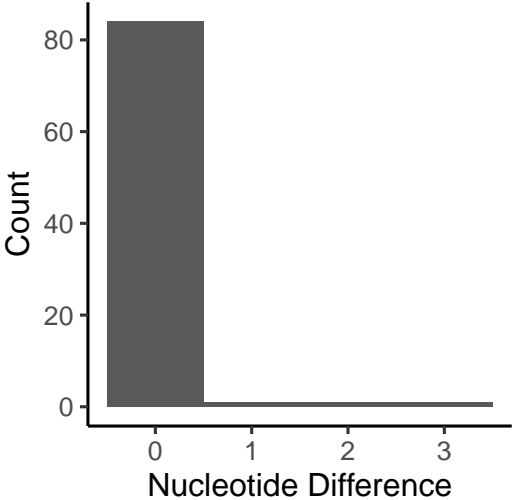
TRBV6-8\*ap01

112 sequences assigned  
111 (99.1%) exact matches, in which:  
110 unique CDR3  
12 unique J



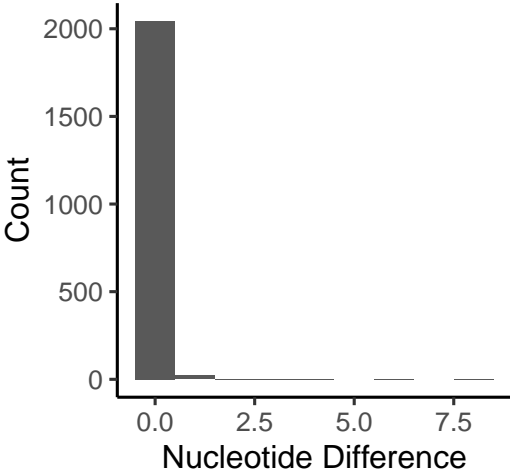
TRBV5-7\*ap01

87 sequences assigned  
84 (96.6%) exact matches, in which:  
84 unique CDR3  
13 unique J



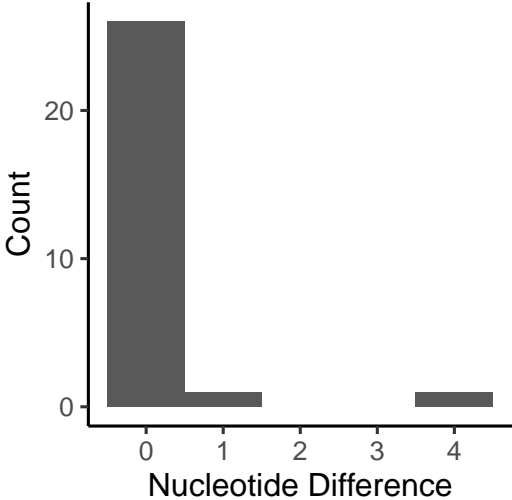
TRBV6-4\*ap01

2073 sequences assigned  
2044 (98.6%) exact matches, in which:  
2017 unique CDR3  
13 unique J



TRBV6-8\*ap01\_C314A

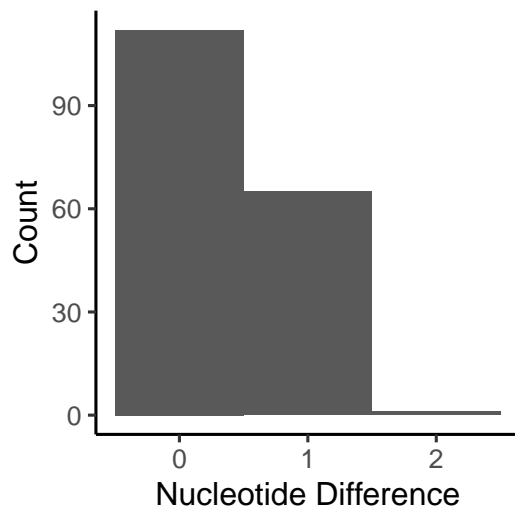
28 sequences assigned  
26 (92.9%) exact matches, in which:  
26 unique CDR3  
1 unique J





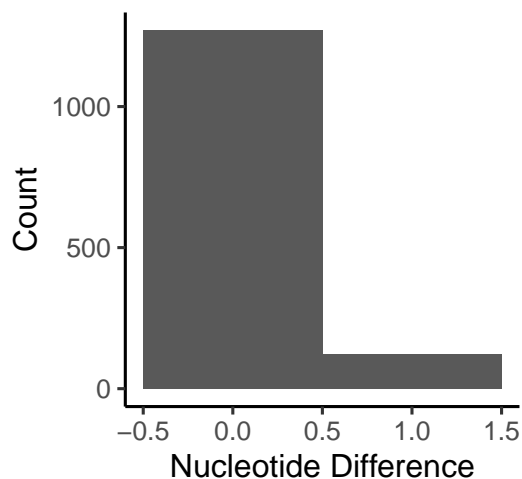
### TRBV6–9\*ap01

178 sequences assigned  
112 (62.9%) exact matches, in which:  
110 unique CDR3  
13 unique J



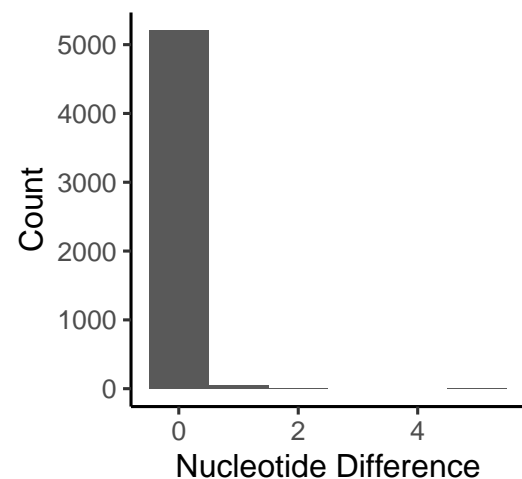
### TRBV6–56\*ap02

1393 sequences assigned  
1270 (91.2%) exact matches, in which:  
1249 unique CDR3  
13 unique J



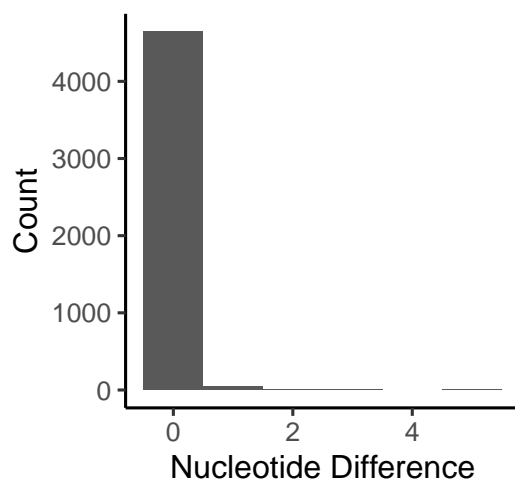
### TRBV7–3\*ap01

5260 sequences assigned  
5207 (99%) exact matches, in which:  
5118 unique CDR3  
13 unique J



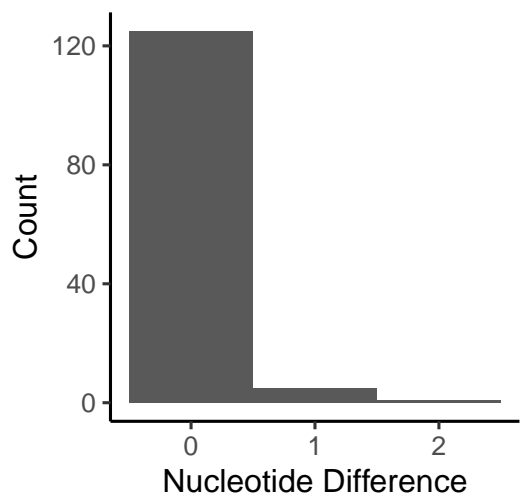
### TRBV6–23\*ap01

4692 sequences assigned  
4643 (99%) exact matches, in which:  
4571 unique CDR3  
13 unique J



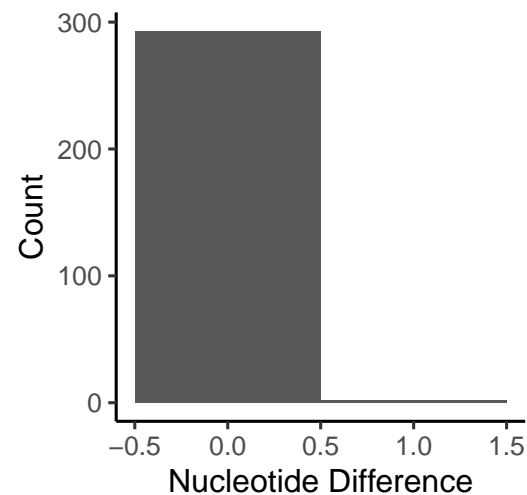
### TRBV7–1\*ap01\_G291C\_

131 sequences assigned  
125 (95.4%) exact matches, in which:  
122 unique CDR3  
11 unique J



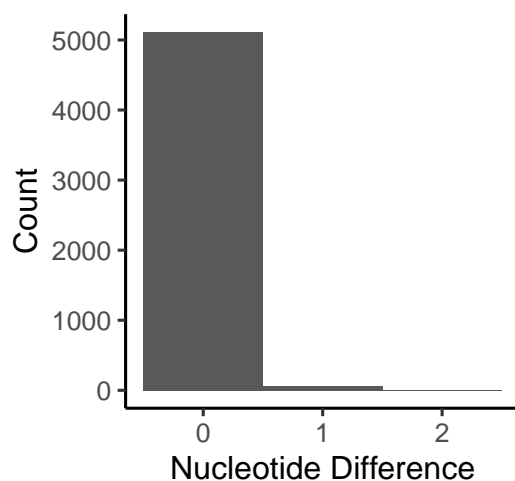
### TRBV7–4\*ap01

295 sequences assigned  
293 (99.3%) exact matches, in which:  
286 unique CDR3  
13 unique J



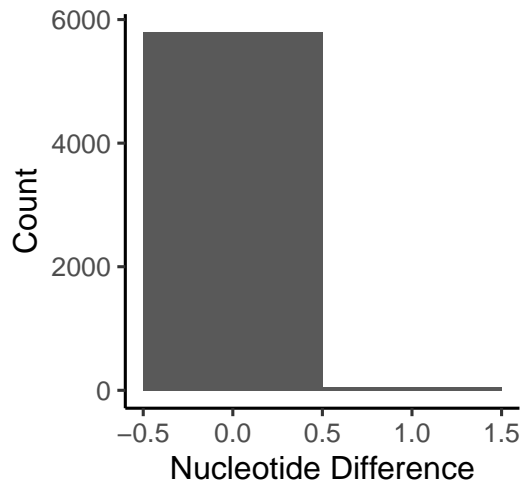
### TRBV6–56\*ap01

5173 sequences assigned  
5113 (98.8%) exact matches, in which:  
5024 unique CDR3  
13 unique J



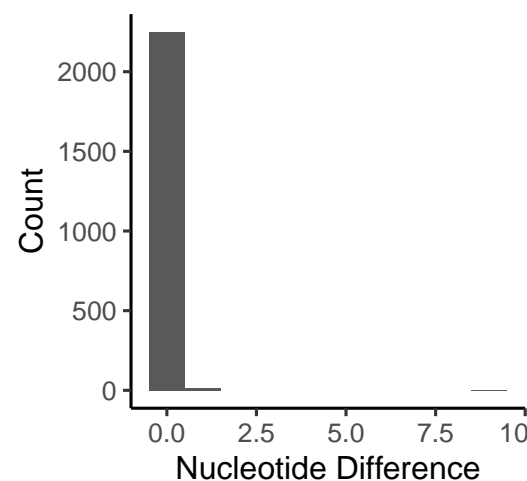
### TRBV7–2\*ap01

5851 sequences assigned  
5798 (99.1%) exact matches, in which:  
5660 unique CDR3  
13 unique J



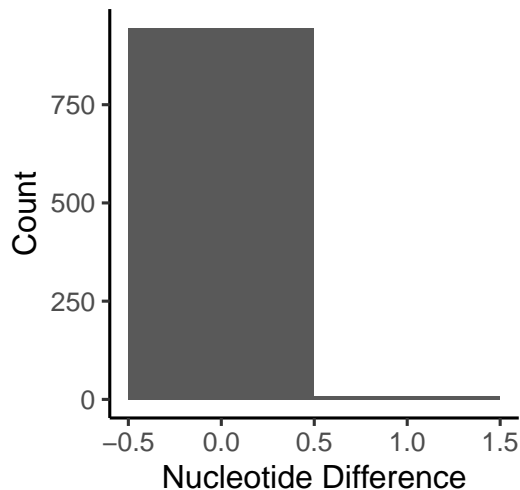
### TRBV7–6\*ap01

2265 sequences assigned  
2249 (99.3%) exact matches, in which:  
2194 unique CDR3  
13 unique J



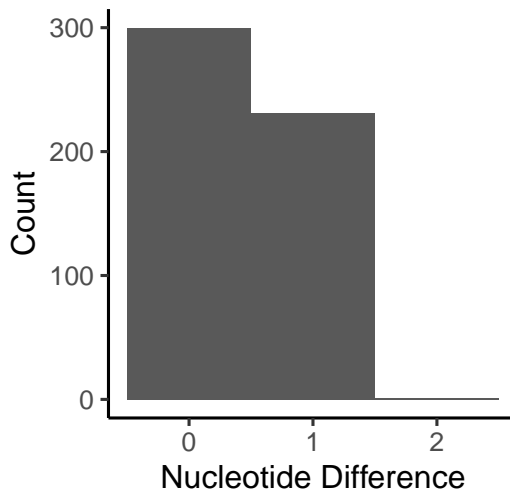
### TRBV7-7\*ap01\_C315T

954 sequences assigned  
946 (99.2%) exact matches, in which:  
931 unique CDR3  
13 unique J



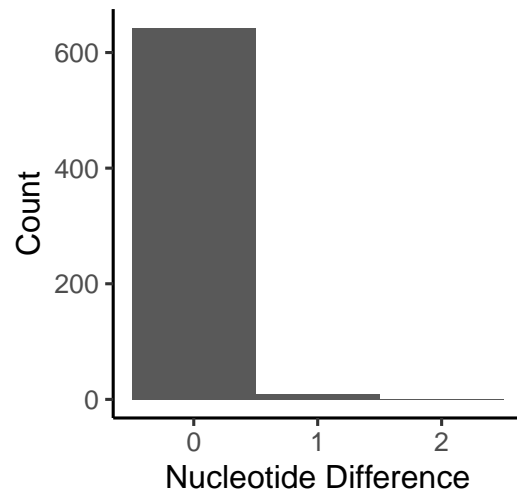
### TRBV7-8\*ap03

532 sequences assigned  
300 (56.4%) exact matches, in which:  
292 unique CDR3  
13 unique J



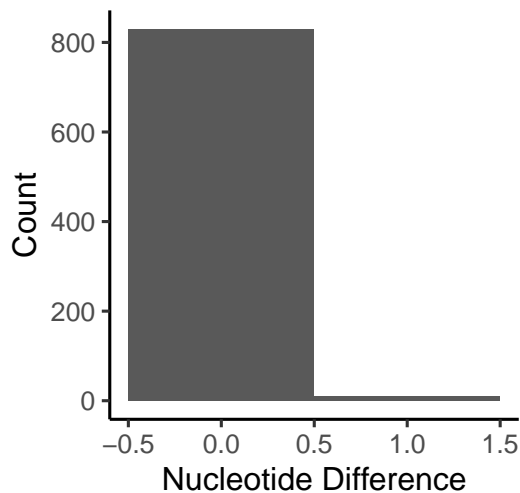
### TRBV29-1\*ap02

654 sequences assigned  
643 (98.3%) exact matches, in which:  
637 unique CDR3  
13 unique J



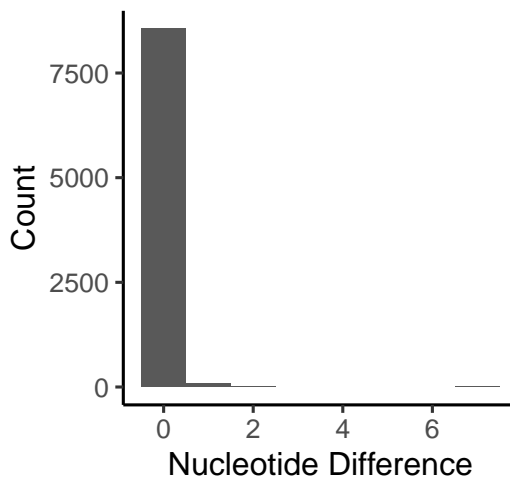
### TRBV7-8\*ap01

841 sequences assigned  
830 (98.7%) exact matches, in which:  
817 unique CDR3  
13 unique J



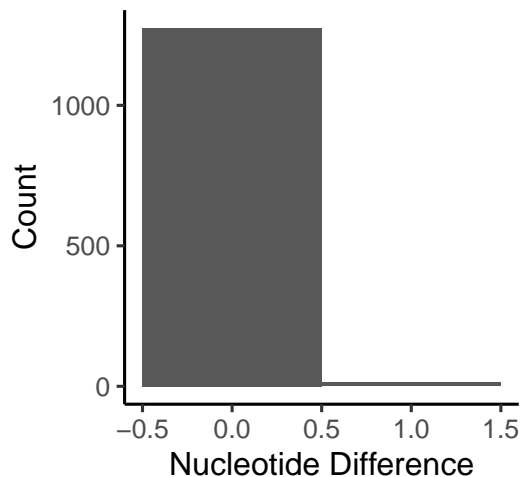
### TRBV7-9\*ap01

8649 sequences assigned  
8558 (98.9%) exact matches, in which:  
8422 unique CDR3  
13 unique J



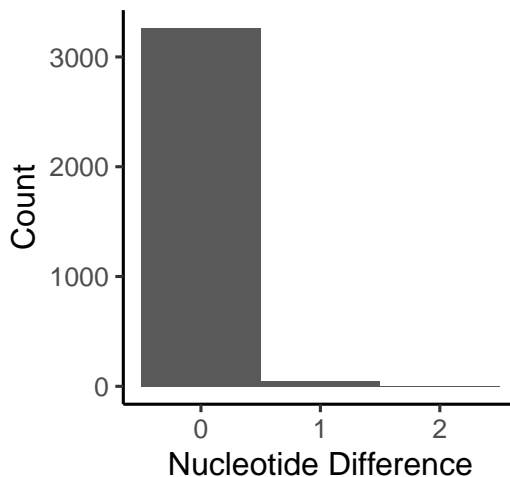
### TRBV7-8\*ap02

1288 sequences assigned  
1275 (99%) exact matches, in which:  
1262 unique CDR3  
13 unique J

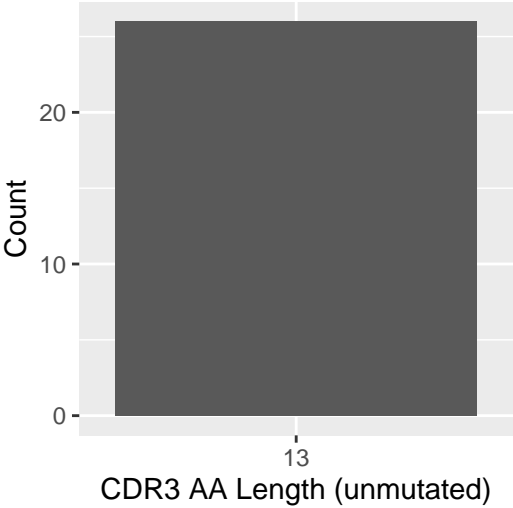


### TRBV29-1\*ap01

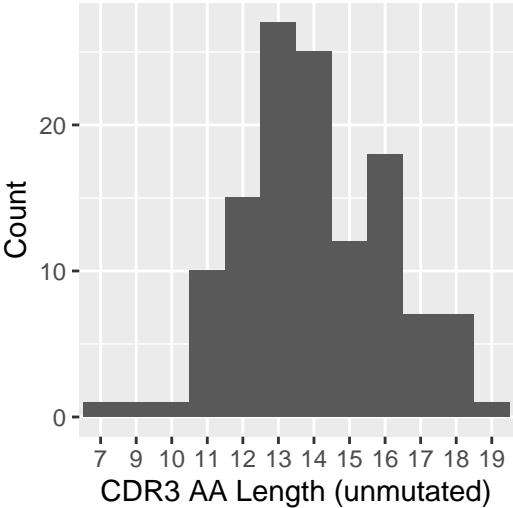
3311 sequences assigned  
3263 (98.6%) exact matches, in which:  
3227 unique CDR3  
13 unique J



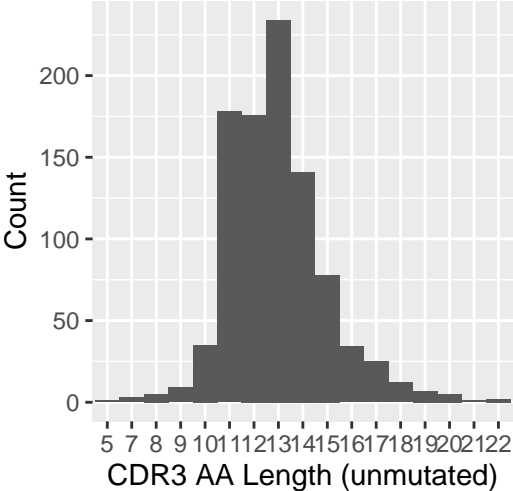
TRBV6-8\*ap01\_C314A



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]