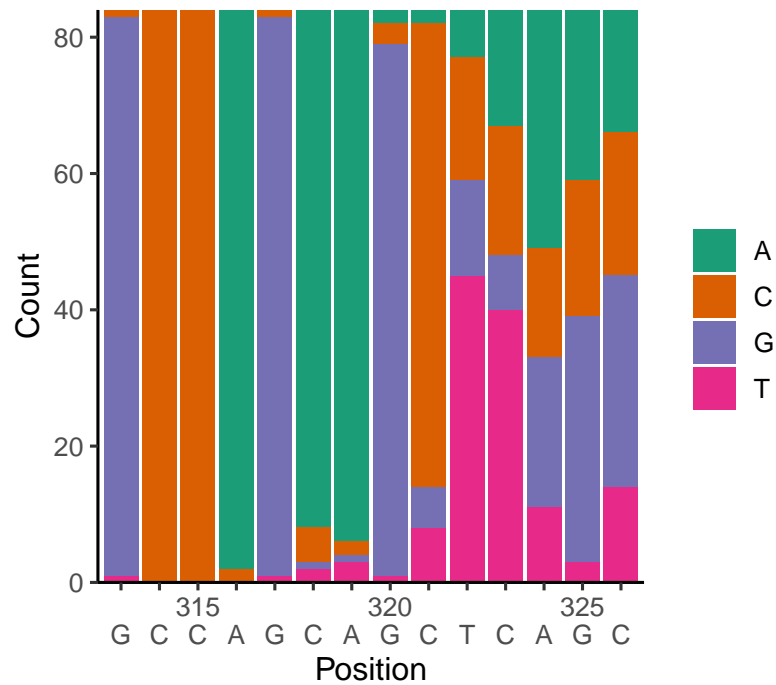
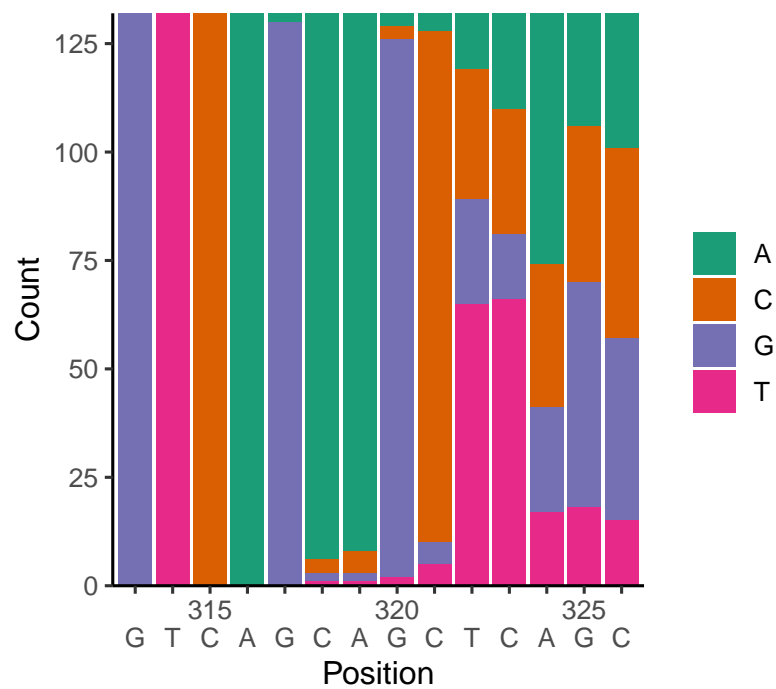


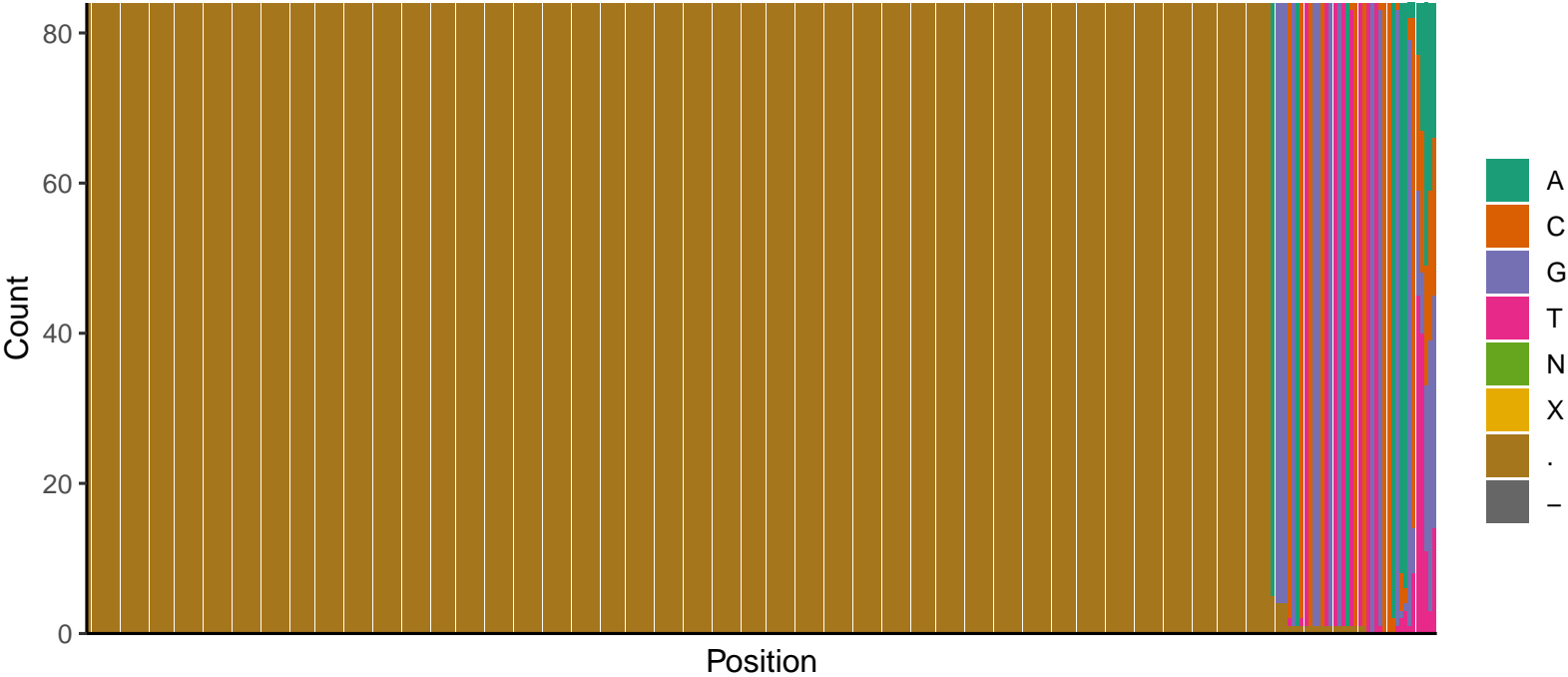
Gene TRBV7-1\*ap01\_G291C\_T296C



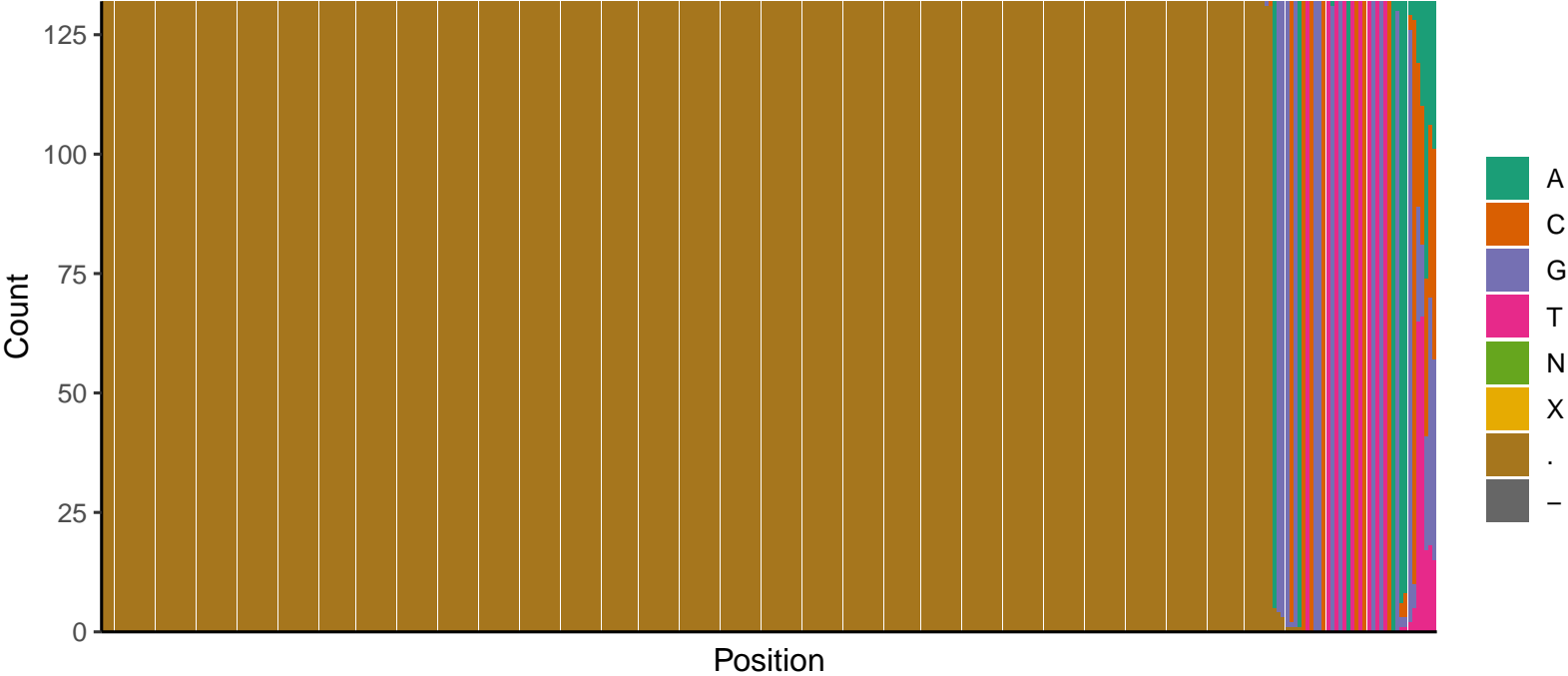
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



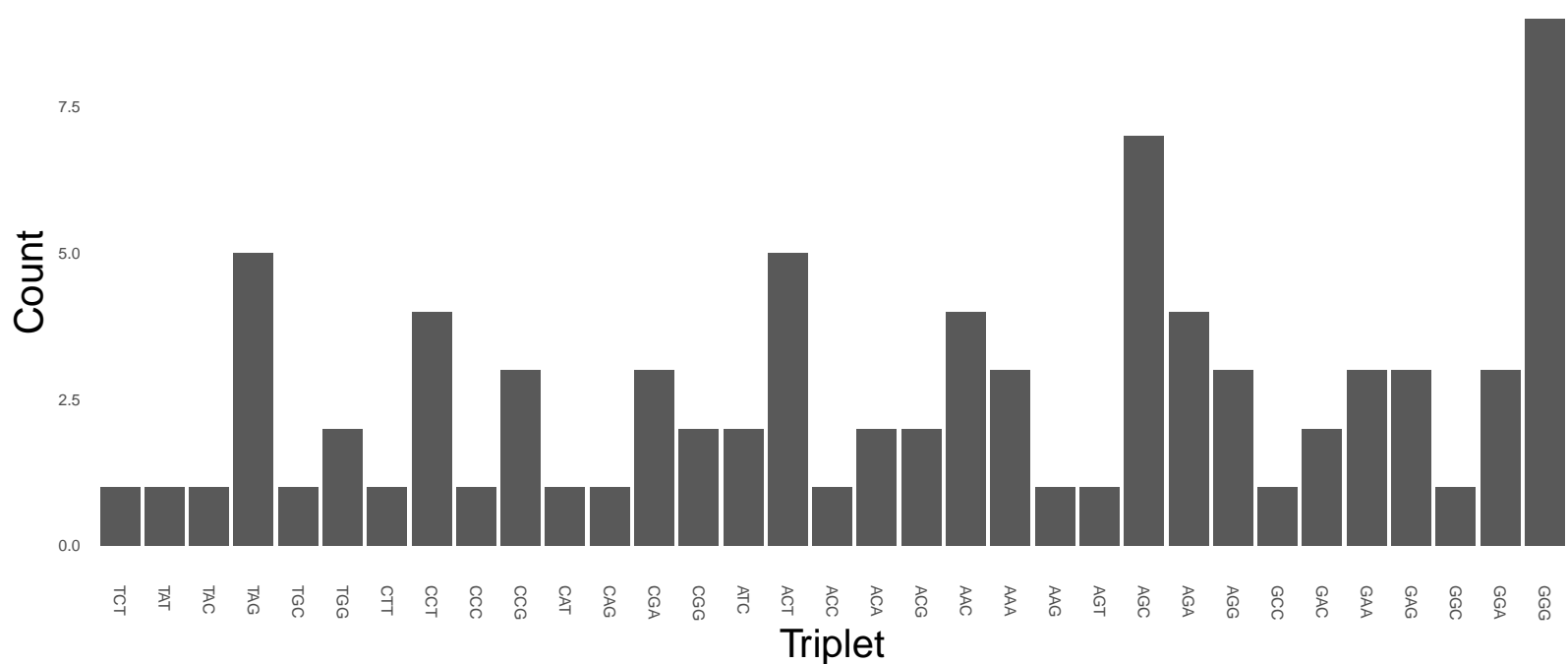
Gene TRBV7-1\*ap01\_G291C\_T296C



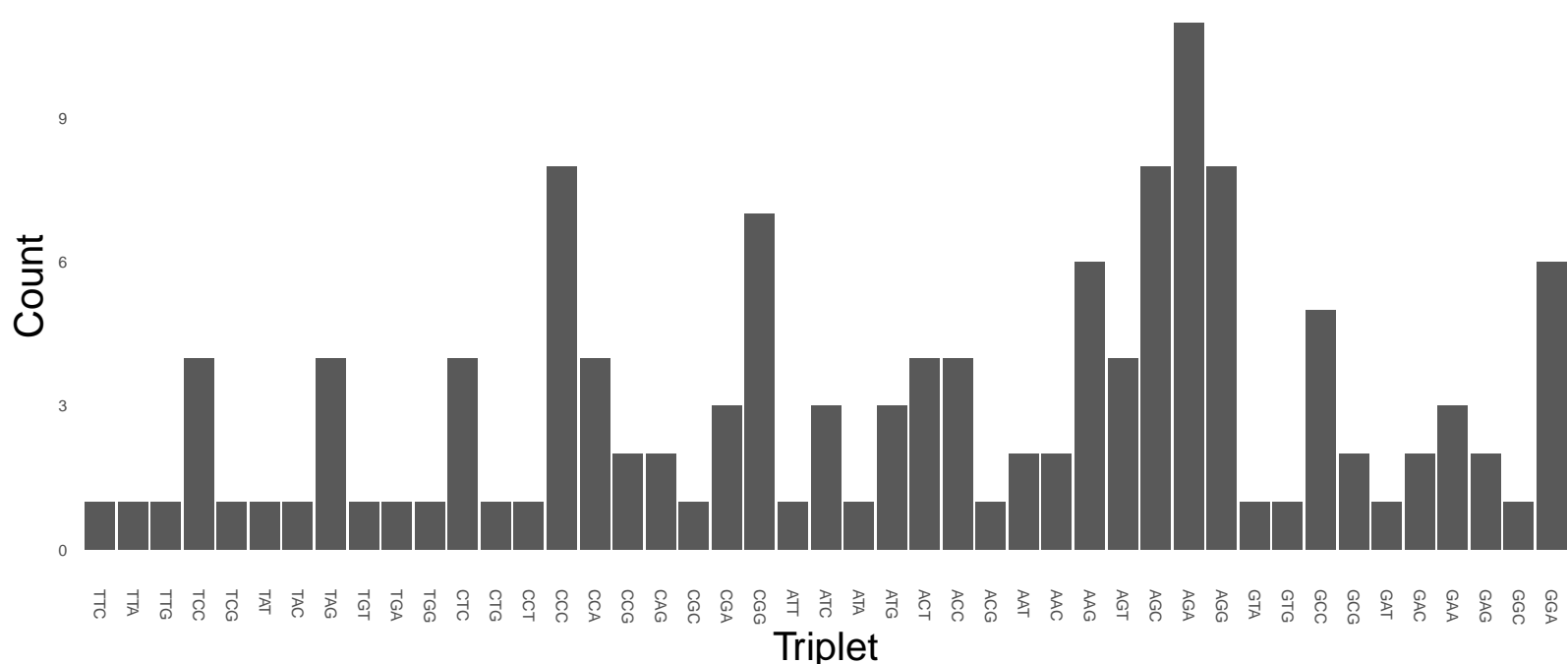
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



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

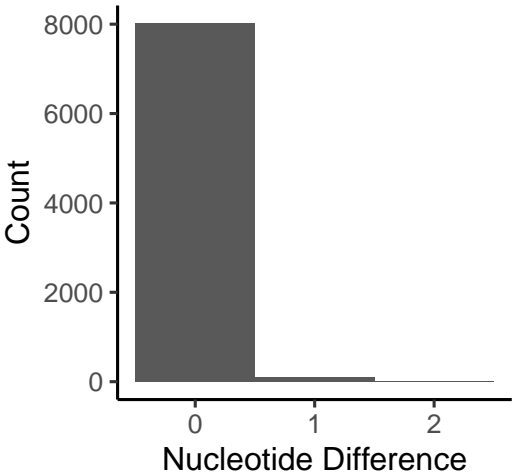


TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



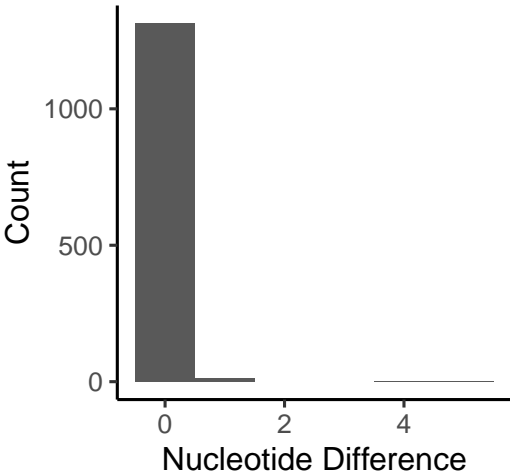
TRBV20-1\*ap01

8127 sequences assigned  
8017 (98.6%) exact matches, in which:  
7866 unique CDR3  
13 unique J



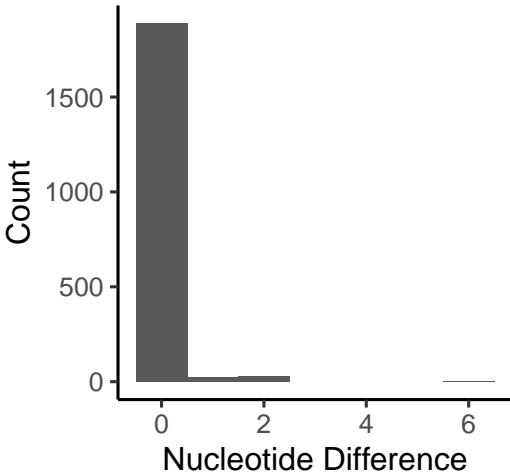
TRBV10-2\*ap01

1329 sequences assigned  
1313 (98.8%) exact matches, in which:  
1287 unique CDR3  
13 unique J



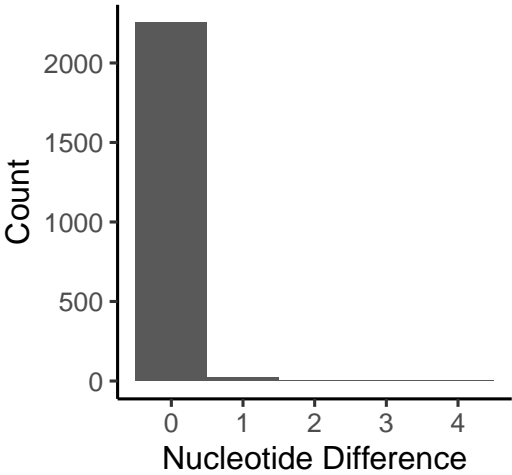
TRBV13\*ap01

1942 sequences assigned  
1888 (97.2%) exact matches, in which:  
1842 unique CDR3  
13 unique J



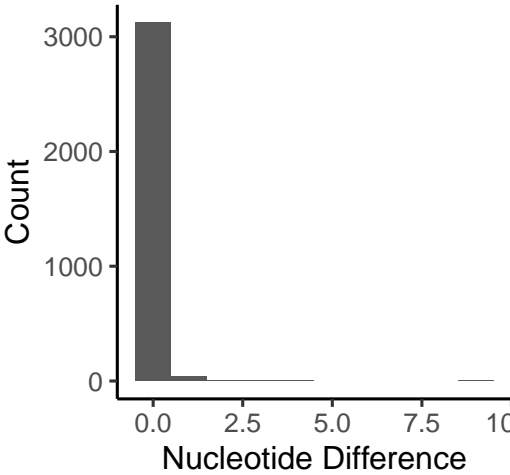
TRBV10-1\*ap01

2280 sequences assigned  
2253 (98.8%) exact matches, in which:  
2205 unique CDR3  
13 unique J



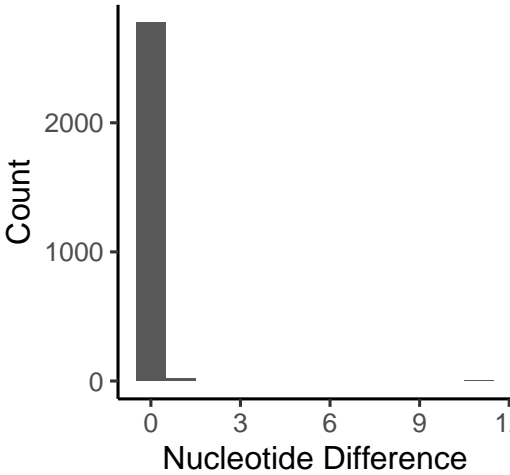
TRBV10-3\*ap01

3171 sequences assigned  
3122 (98.5%) exact matches, in which:  
3041 unique CDR3  
13 unique J



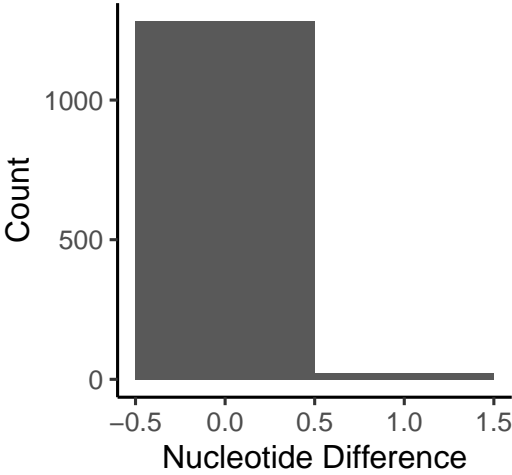
TRBV14\*ap01

2799 sequences assigned  
2775 (99.1%) exact matches, in which:  
2741 unique CDR3  
13 unique J



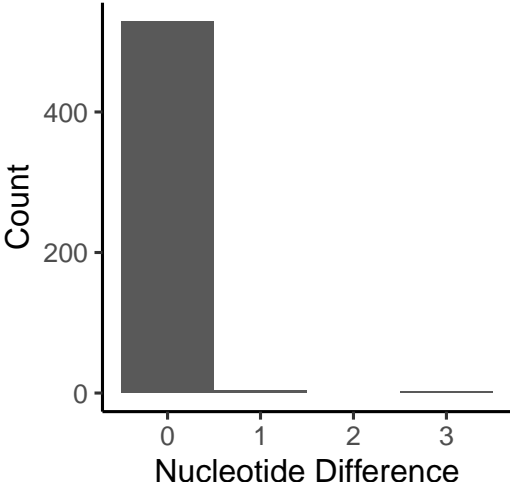
TRBV20-1\*ap02

1305 sequences assigned  
1283 (98.3%) exact matches, in which:  
1258 unique CDR3  
13 unique J



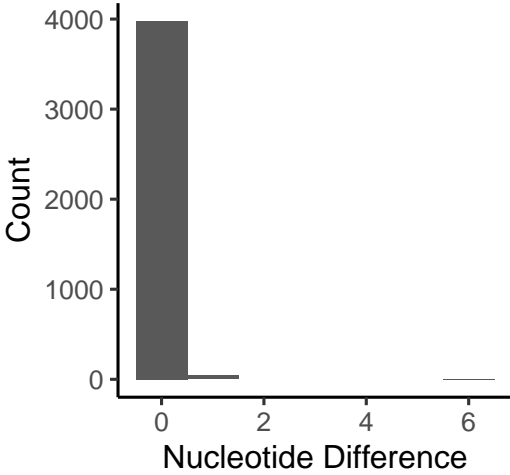
TRBV1\*ap01

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



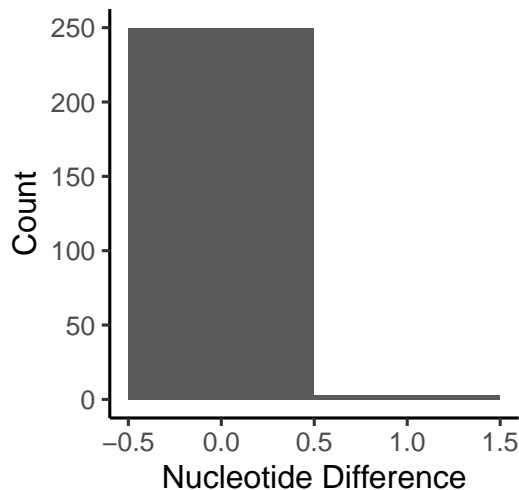
TRBV15\*ap02

4023 sequences assigned  
3978 (98.9%) exact matches, in which:  
3875 unique CDR3  
13 unique J



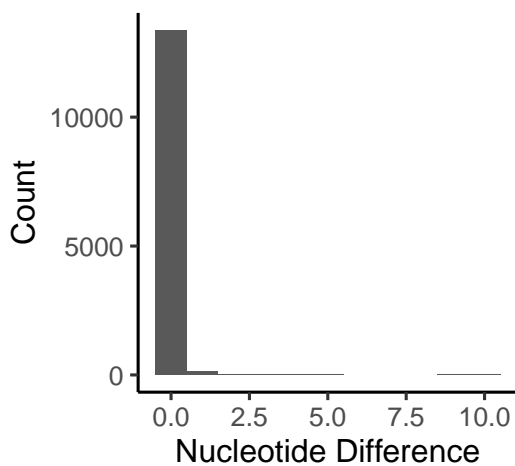
### TRBV16\*ap01

253 sequences assigned  
250 (98.8%) exact matches, in which:  
246 unique CDR3  
13 unique J



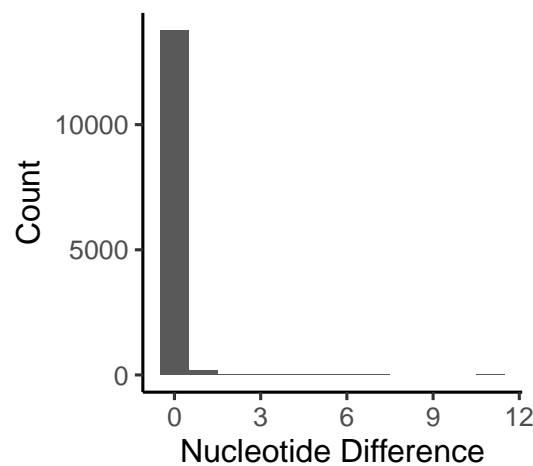
### TRBV19\*ap01

13518 sequences assigned  
13375 (98.9%) exact matches, in which:  
13189 unique CDR3  
13 unique J



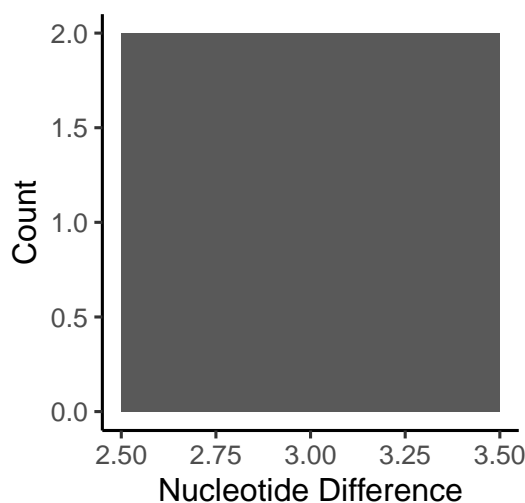
### TRBV27\*ap01

13959 sequences assigned  
13775 (98.7%) exact matches, in which:  
13422 unique CDR3  
14 unique J



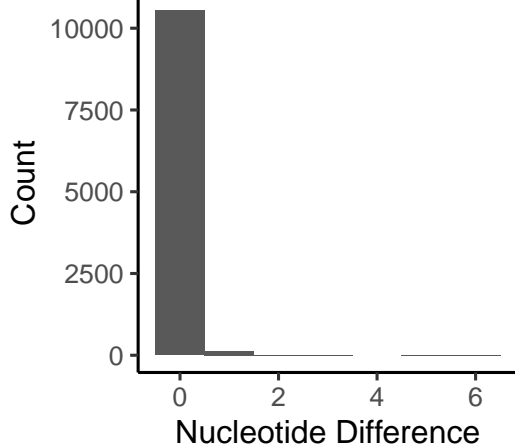
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



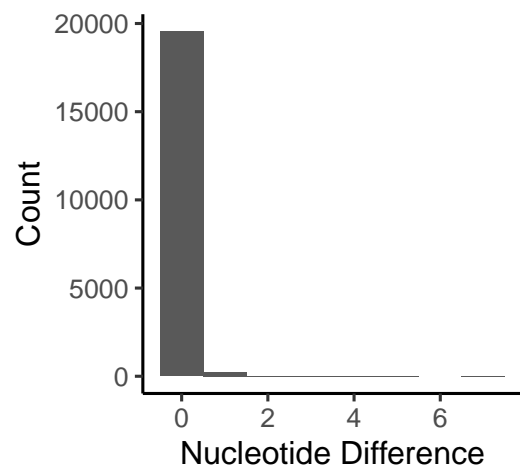
### TRBV2\*ap01

10679 sequences assigned  
10542 (98.7%) exact matches, in which:  
10335 unique CDR3  
13 unique J



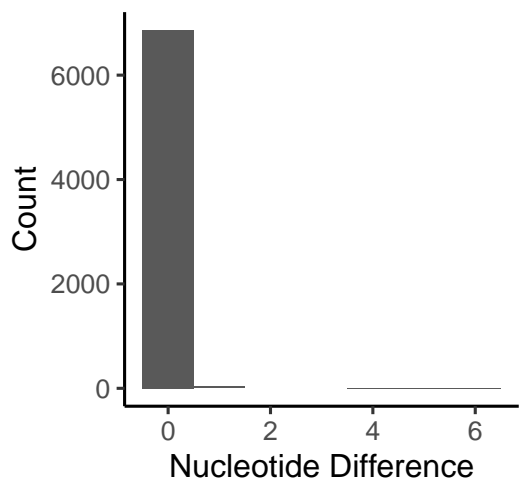
### TRBV28\*ap01

19796 sequences assigned  
19549 (98.8%) exact matches, in which:  
19159 unique CDR3  
13 unique J



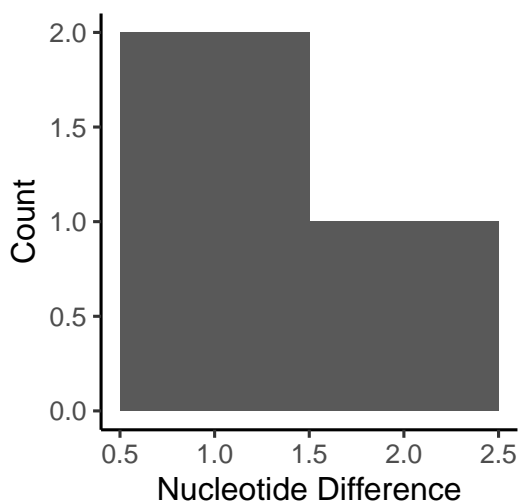
### TRBV18\*ap01

6903 sequences assigned  
6864 (99.4%) exact matches, in which:  
6765 unique CDR3  
13 unique J



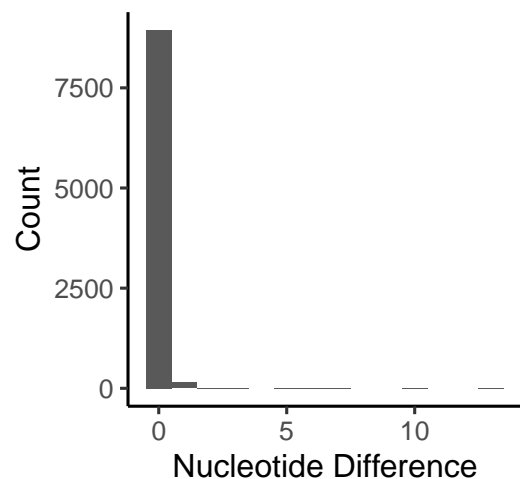
### TRBV26\*ap01

3 sequences assigned  
No exact matches.



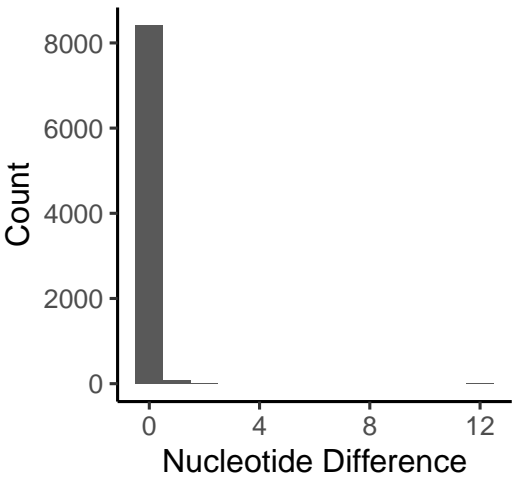
### TRBV30\*ap01

9107 sequences assigned  
8943 (98.2%) exact matches, in which:  
8830 unique CDR3  
13 unique J



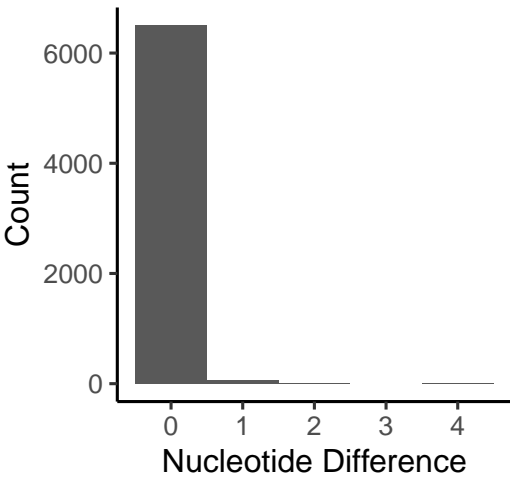
TRBV9\*ap01

8488 sequences assigned  
8411 (99.1%) exact matches, in which:  
8266 unique CDR3  
14 unique J



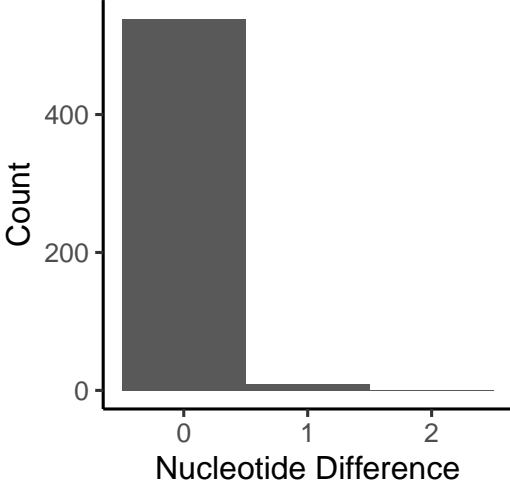
TRBV11-2\*ap01

6575 sequences assigned  
6502 (98.9%) exact matches, in which:  
6353 unique CDR3  
13 unique J



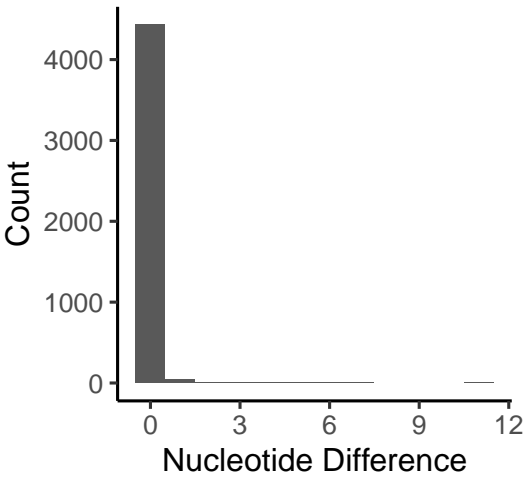
TRBV12-2\*ap01

549 sequences assigned  
539 (98.2%) exact matches, in which:  
530 unique CDR3  
13 unique J



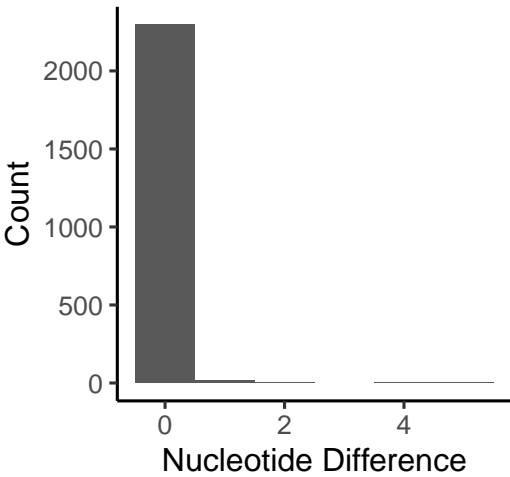
TRBV21-1\*ap01

4491 sequences assigned  
4431 (98.7%) exact matches, in which:  
4351 unique CDR3  
13 unique J



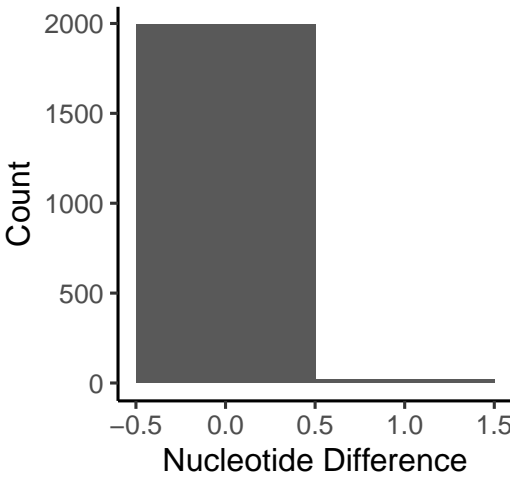
TRBV11-3\*ap01

2318 sequences assigned  
2296 (99.1%) exact matches, in which:  
2253 unique CDR3  
13 unique J



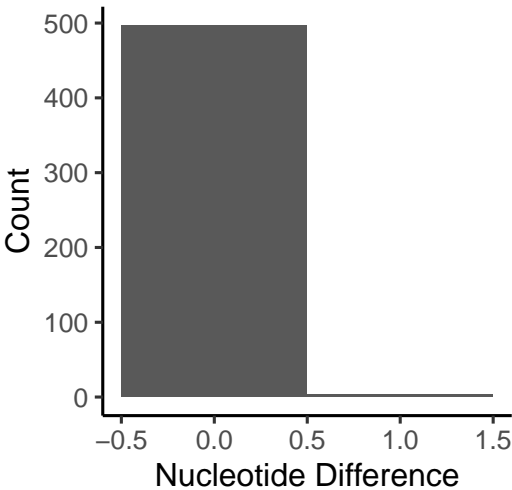
TRBV12-5\*ap01

2012 sequences assigned  
1993 (99.1%) exact matches, in which:  
1945 unique CDR3  
13 unique J



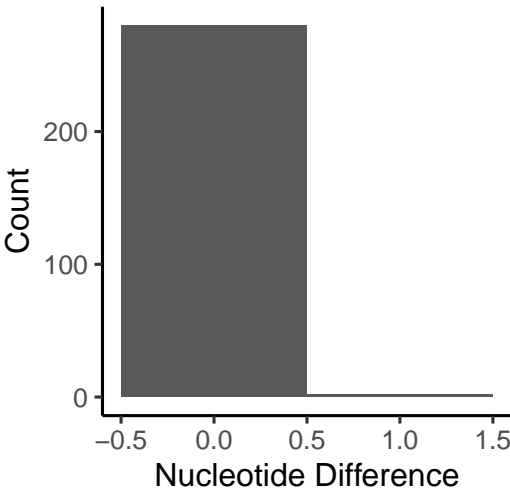
TRBV11-1\*ap01

501 sequences assigned  
497 (99.2%) exact matches, in which:  
485 unique CDR3  
13 unique J



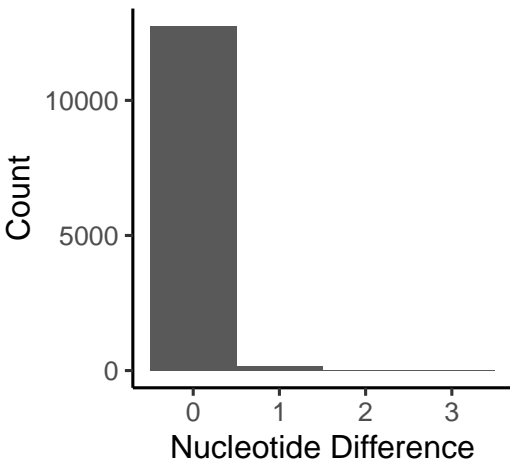
TRBV12-1\*ap01

282 sequences assigned  
280 (99.3%) exact matches, in which:  
274 unique CDR3  
13 unique J



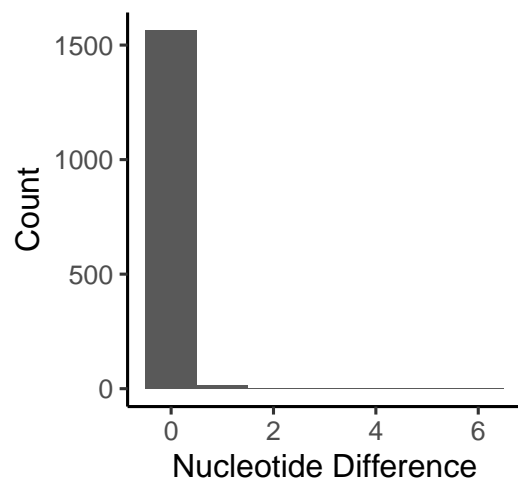
TRBV12-34\*ap01

12946 sequences assigned  
12761 (98.6%) exact matches, in which:  
12511 unique CDR3  
14 unique J



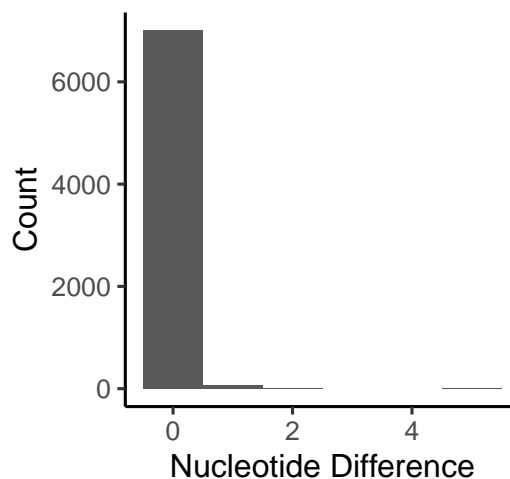
### TRBV23-1\*ap01

1588 sequences assigned  
1564 (98.5%) exact matches, in which:  
1542 unique CDR3  
13 unique J



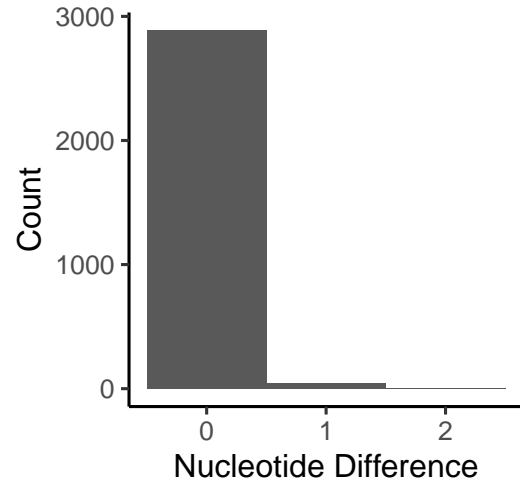
### TRBV4-1\*ap01

7076 sequences assigned  
7006 (99%) exact matches, in which:  
6862 unique CDR3  
13 unique J



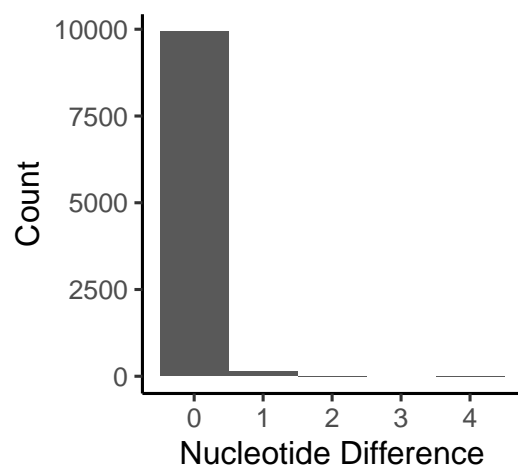
### TRBV25-1\*ap01

2933 sequences assigned  
2887 (98.4%) exact matches, in which:  
2827 unique CDR3  
13 unique J



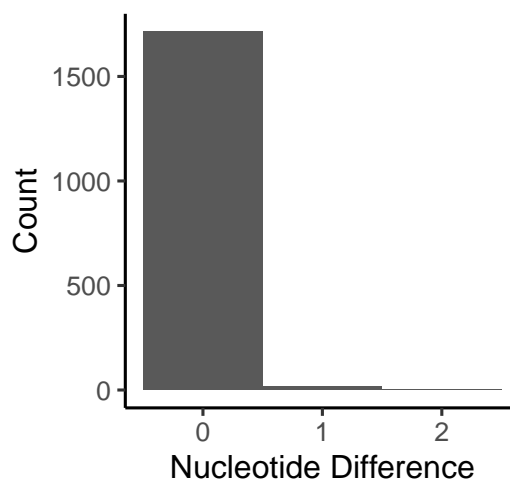
### TRBV3-12\*ap01

10086 sequences assigned  
9936 (98.5%) exact matches, in which:  
9717 unique CDR3  
13 unique J



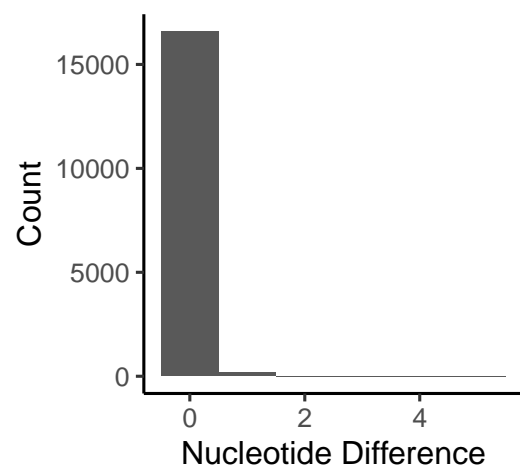
### TRBV4-2\*ap01

1736 sequences assigned  
1714 (98.7%) exact matches, in which:  
1686 unique CDR3  
13 unique J



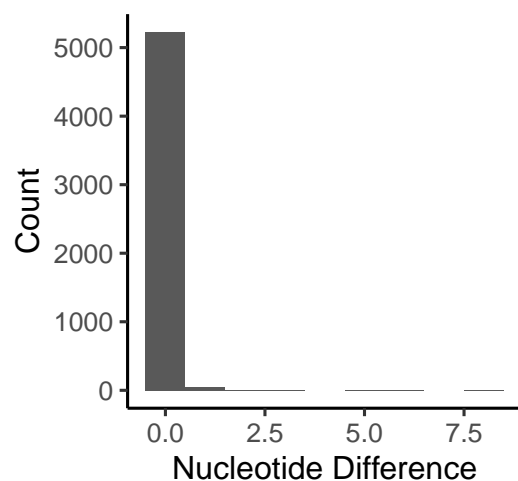
### TRBV5-1\*ap01

16773 sequences assigned  
16586 (98.9%) exact matches, in which:  
16180 unique CDR3  
13 unique J



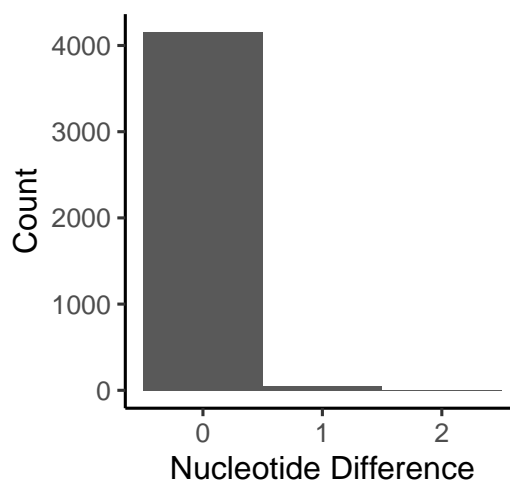
### TRBV24-1\*ap01

5281 sequences assigned  
5227 (99%) exact matches, in which:  
5147 unique CDR3  
13 unique J



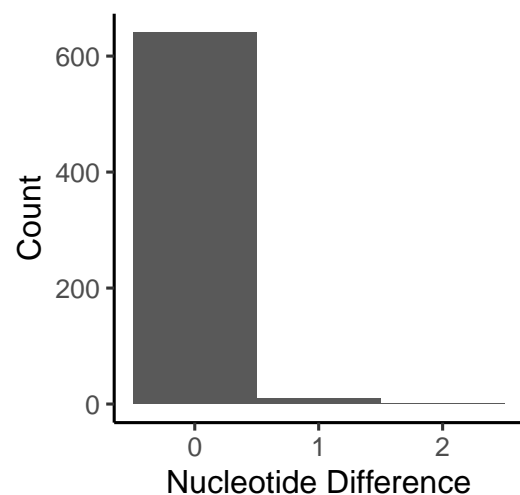
### TRBV4-3\*ap01

4211 sequences assigned  
4156 (98.7%) exact matches, in which:  
4082 unique CDR3  
13 unique J



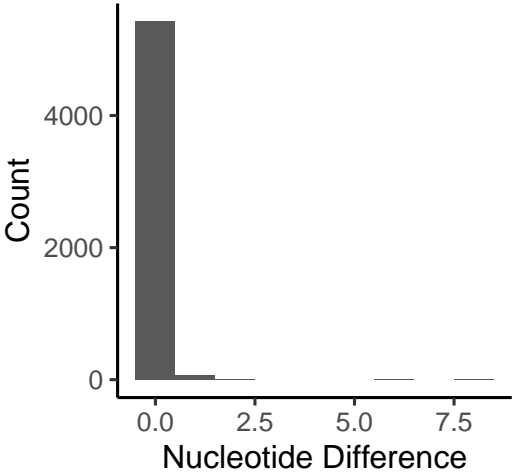
### TRBV5-3\*ap01

651 sequences assigned  
641 (98.5%) exact matches, in which:  
631 unique CDR3  
13 unique J



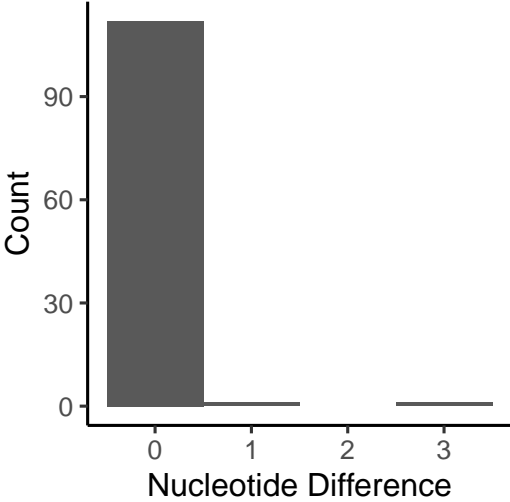
TRBV5-4\*ap01

5499 sequences assigned  
5425 (98.7%) exact matches, in which:  
5306 unique CDR3  
13 unique J



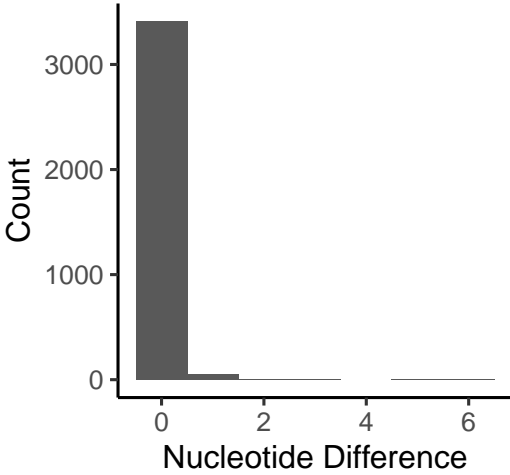
TRBV5-7\*ap01

114 sequences assigned  
112 (98.2%) exact matches, in which:  
107 unique CDR3  
13 unique J



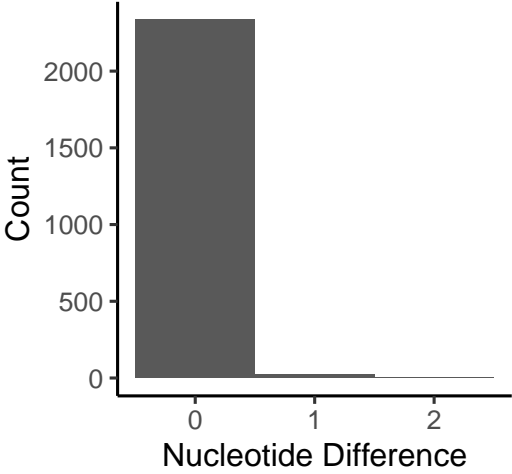
TRBV6-4\*ap01

3467 sequences assigned  
3410 (98.4%) exact matches, in which:  
3357 unique CDR3  
13 unique J



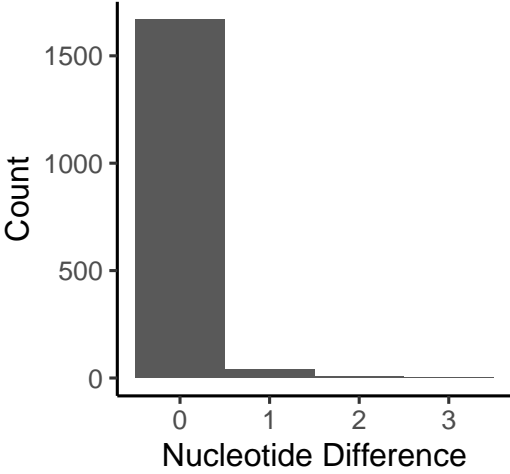
TRBV5-5\*ap01

2359 sequences assigned  
2335 (99%) exact matches, in which:  
2301 unique CDR3  
13 unique J



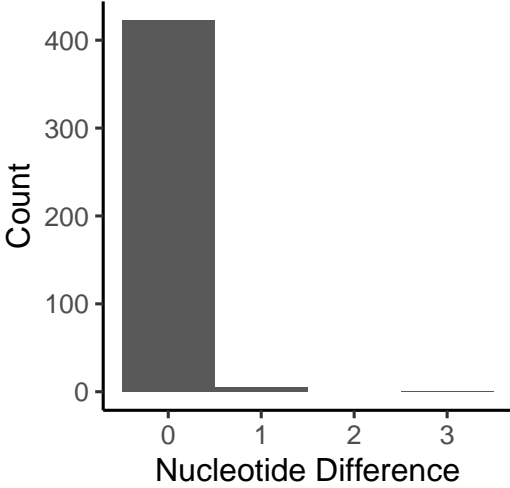
TRBV5-8\*ap01

1713 sequences assigned  
1668 (97.4%) exact matches, in which:  
1631 unique CDR3  
13 unique J



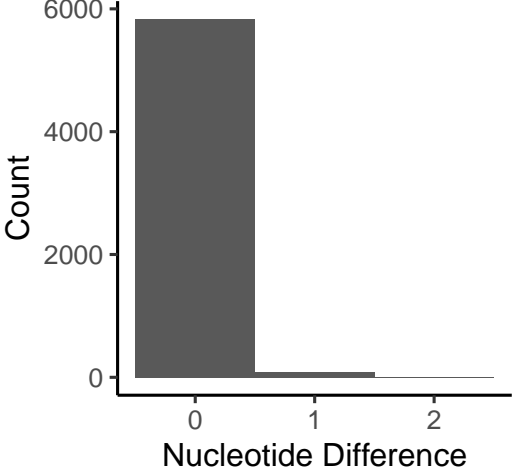
TRBV6-7\*ap01

429 sequences assigned  
423 (98.6%) exact matches, in which:  
415 unique CDR3  
13 unique J



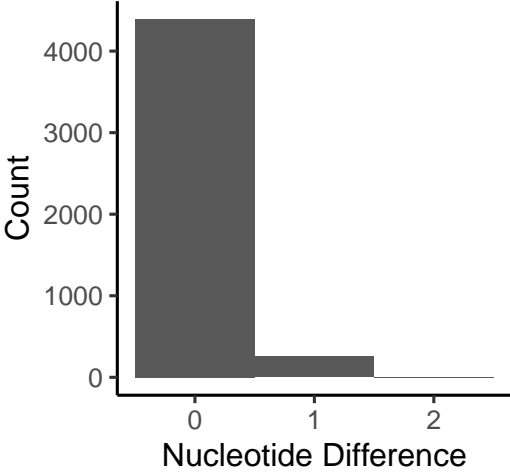
TRBV5-6\*ap01

5923 sequences assigned  
5834 (98.5%) exact matches, in which:  
5689 unique CDR3  
13 unique J



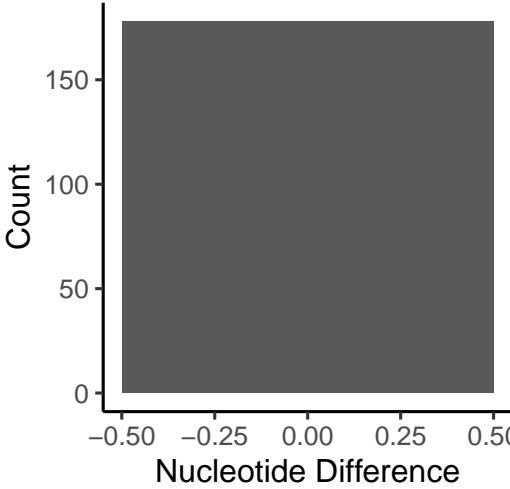
TRBV6-1\*ap01

4652 sequences assigned  
4393 (94.4%) exact matches, in which:  
4289 unique CDR3  
13 unique J



TRBV6-8\*ap01

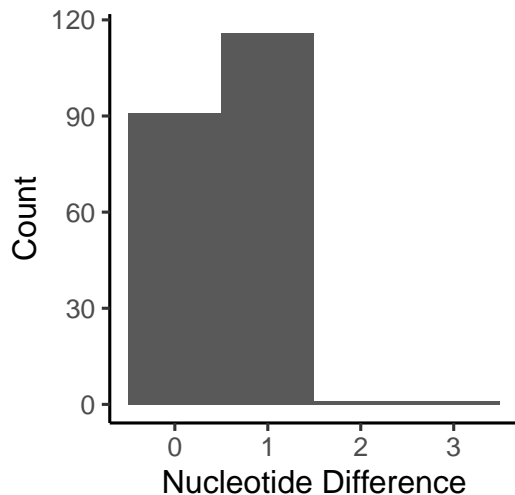
178 sequences assigned  
178 (100%) exact matches, in which:  
177 unique CDR3  
12 unique J





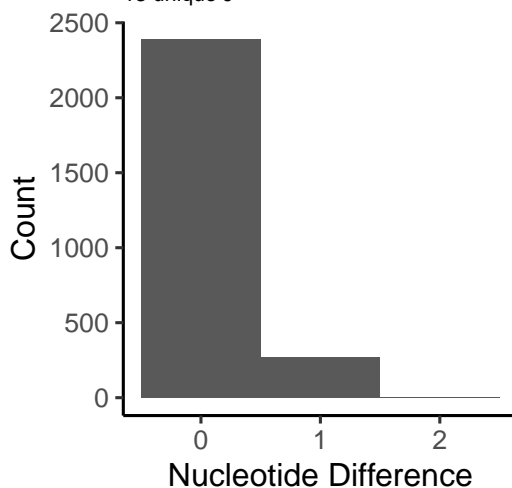
### TRBV6–9\*ap01

209 sequences assigned  
91 (43.5%) exact matches, in which:  
88 unique CDR3  
13 unique J



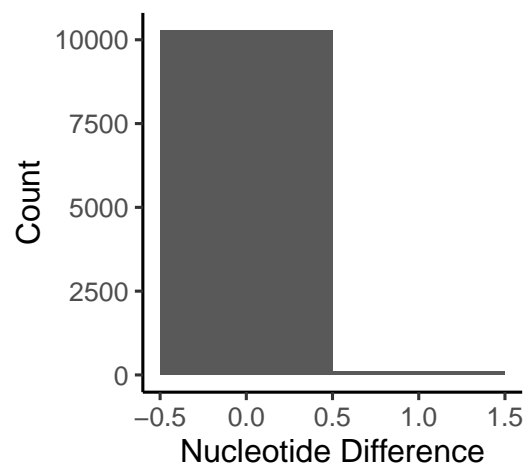
### TRBV6–56\*ap02

2665 sequences assigned  
2389 (89.6%) exact matches, in which:  
2342 unique CDR3  
13 unique J



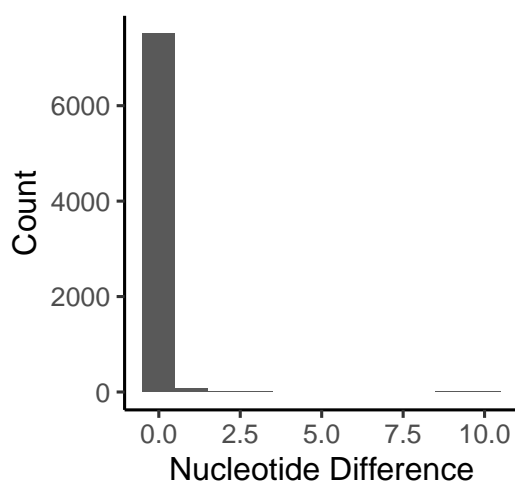
### TRBV7–2\*ap01

10377 sequences assigned  
10287 (99.1%) exact matches, in which:  
10099 unique CDR3  
13 unique J



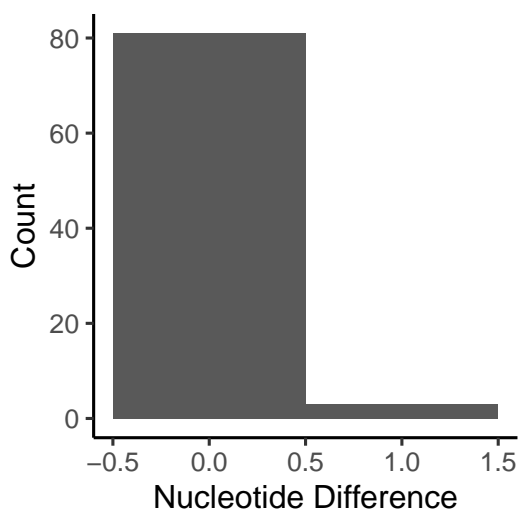
### TRBV6–23\*ap01

7600 sequences assigned  
7508 (98.8%) exact matches, in which:  
7377 unique CDR3  
13 unique J



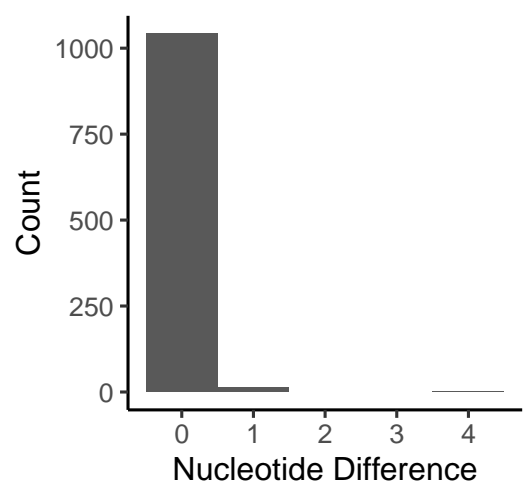
### TRBV7–1\*ap01\_G291C\_T

84 sequences assigned  
81 (96.4%) exact matches, in which:  
80 unique CDR3  
13 unique J



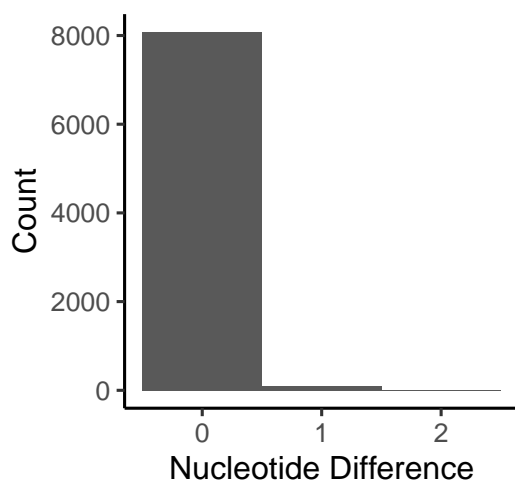
### TRBV7–3\*ap02

1055 sequences assigned  
1042 (98.8%) exact matches, in which:  
1019 unique CDR3  
13 unique J



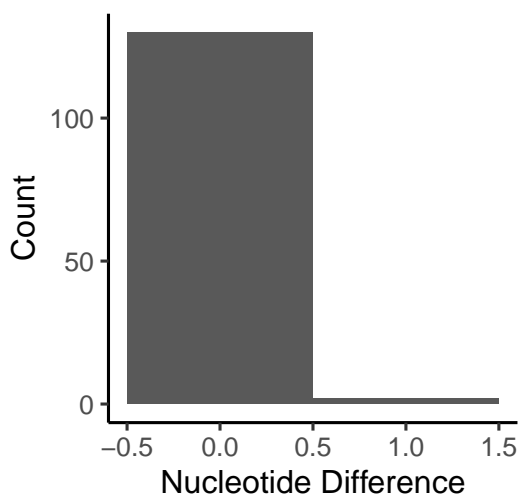
### TRBV6–56\*ap01

8177 sequences assigned  
8078 (98.8%) exact matches, in which:  
7894 unique CDR3  
13 unique J



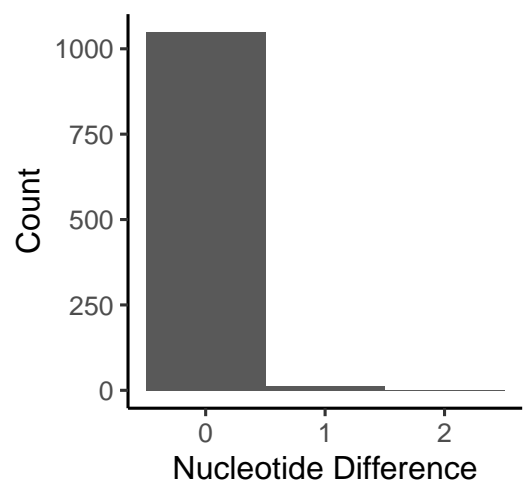
### TRBV7–1\*ap01\_G291C\_

132 sequences assigned  
130 (98.5%) exact matches, in which:  
125 unique CDR3  
12 unique J



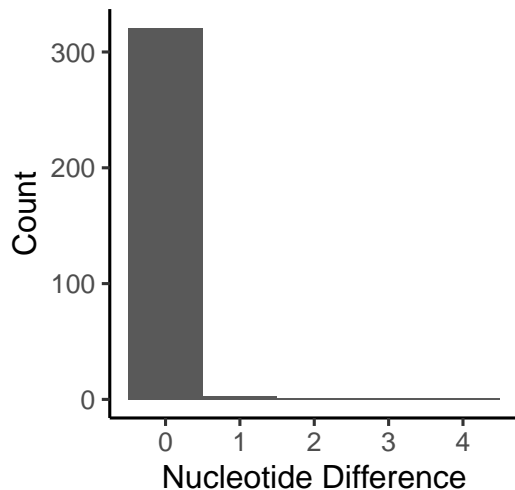
### TRBV7–3\*ap03

1063 sequences assigned  
1049 (98.7%) exact matches, in which:  
1017 unique CDR3  
13 unique J



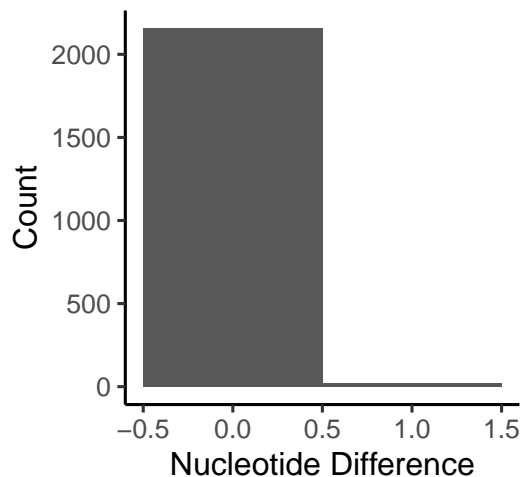
### TRBV7-4\*ap01

327 sequences assigned  
321 (98.2%) exact matches, in which:  
314 unique CDR3  
13 unique J



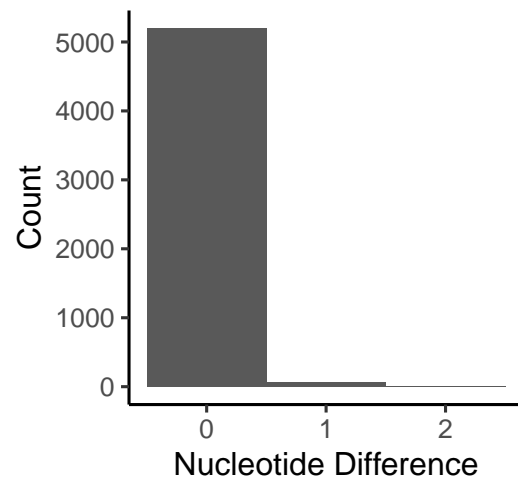
### TRBV7-8\*ap01

2175 sequences assigned  
2156 (99.1%) exact matches, in which:  
2112 unique CDR3  
13 unique J



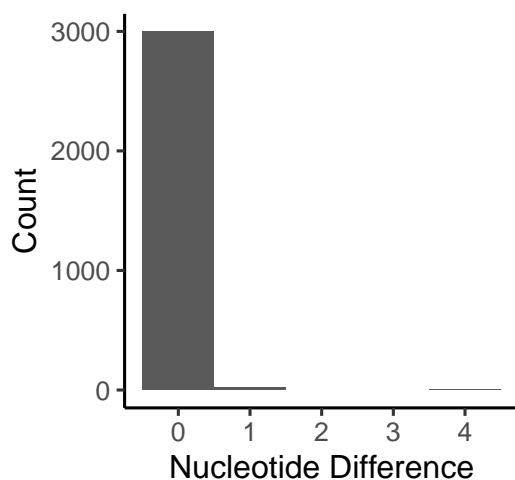
### TRBV29-1\*ap01

5261 sequences assigned  
5197 (98.8%) exact matches, in which:  
5105 unique CDR3  
13 unique J



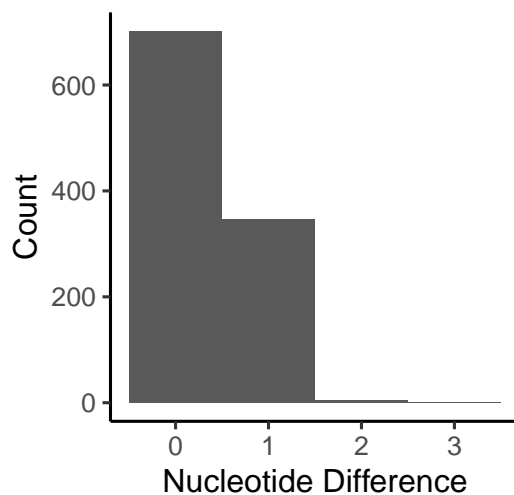
### TRBV7-6\*ap01

3023 sequences assigned  
2997 (99.1%) exact matches, in which:  
2928 unique CDR3  
13 unique J



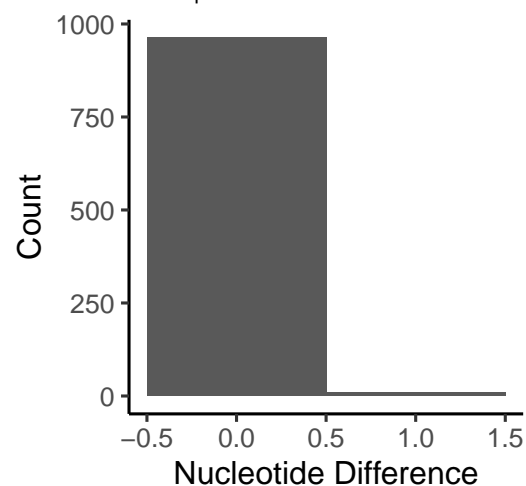
### TRBV7-8\*ap03

1054 sequences assigned  
702 (66.6%) exact matches, in which:  
690 unique CDR3  
13 unique J



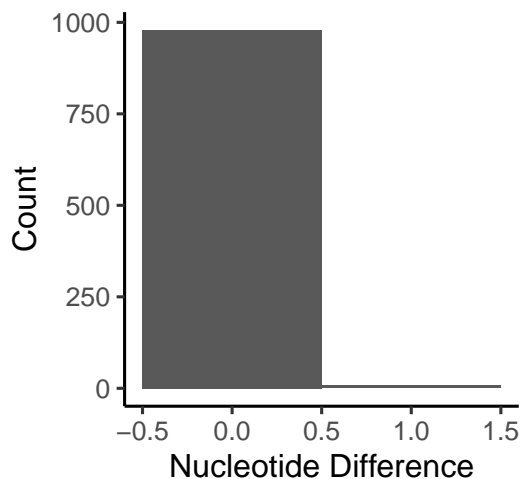
### TRBV29-1\*ap02

973 sequences assigned  
963 (99%) exact matches, in which:  
946 unique CDR3  
13 unique J



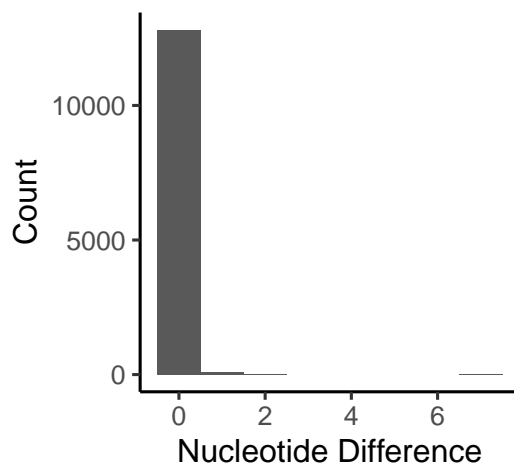
### TRBV7-7\*ap01

987 sequences assigned  
979 (99.2%) exact matches, in which:  
962 unique CDR3  
13 unique J

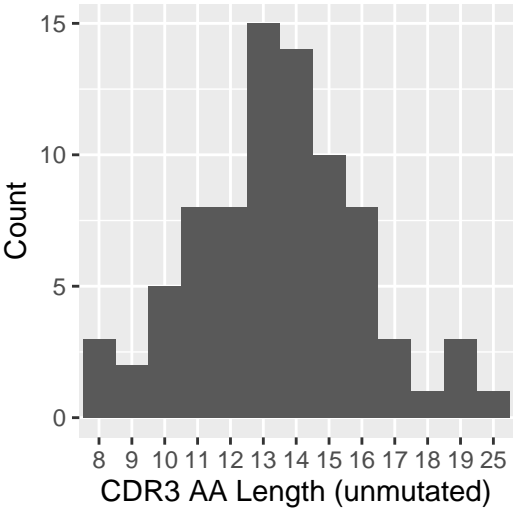


### TRBV7-9\*ap01

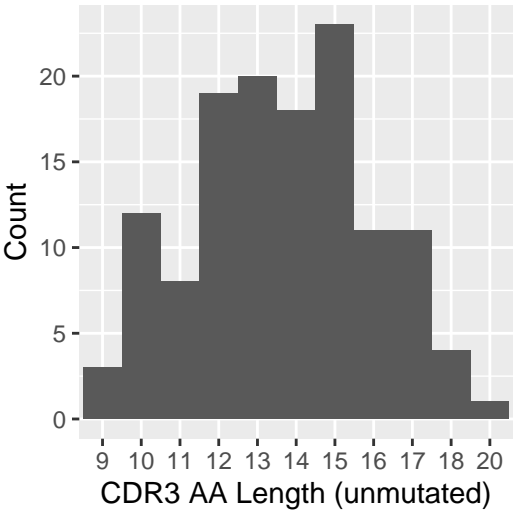
12915 sequences assigned  
12812 (99.2%) exact matches, in which:  
12596 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-1\*ap01\_G291C\_T296C\_C314T





[illegible]