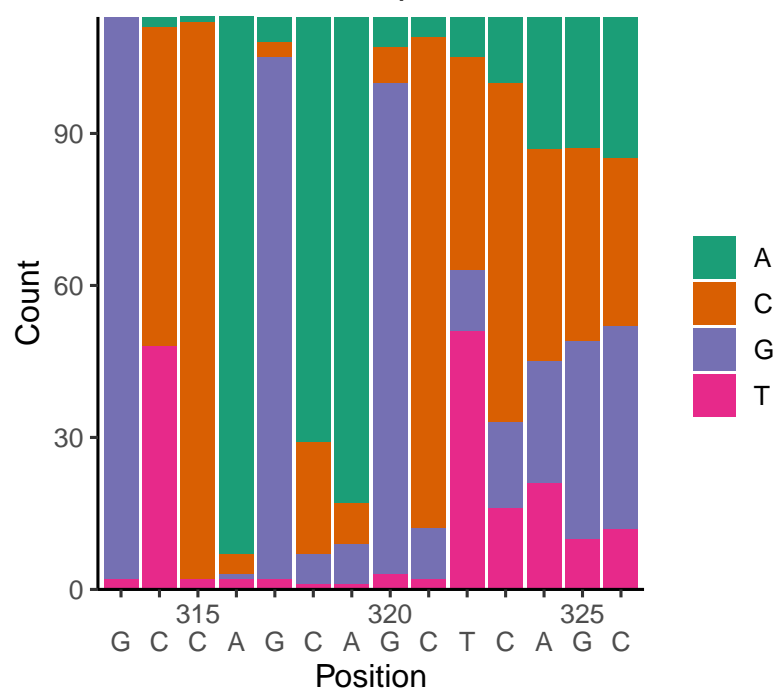
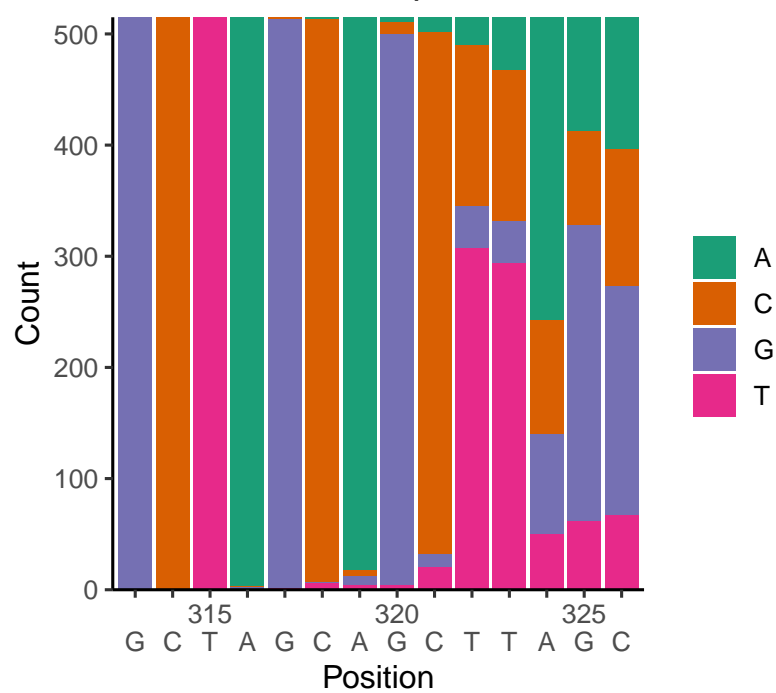


Gene TRBV7-1\*ap01\_T296C



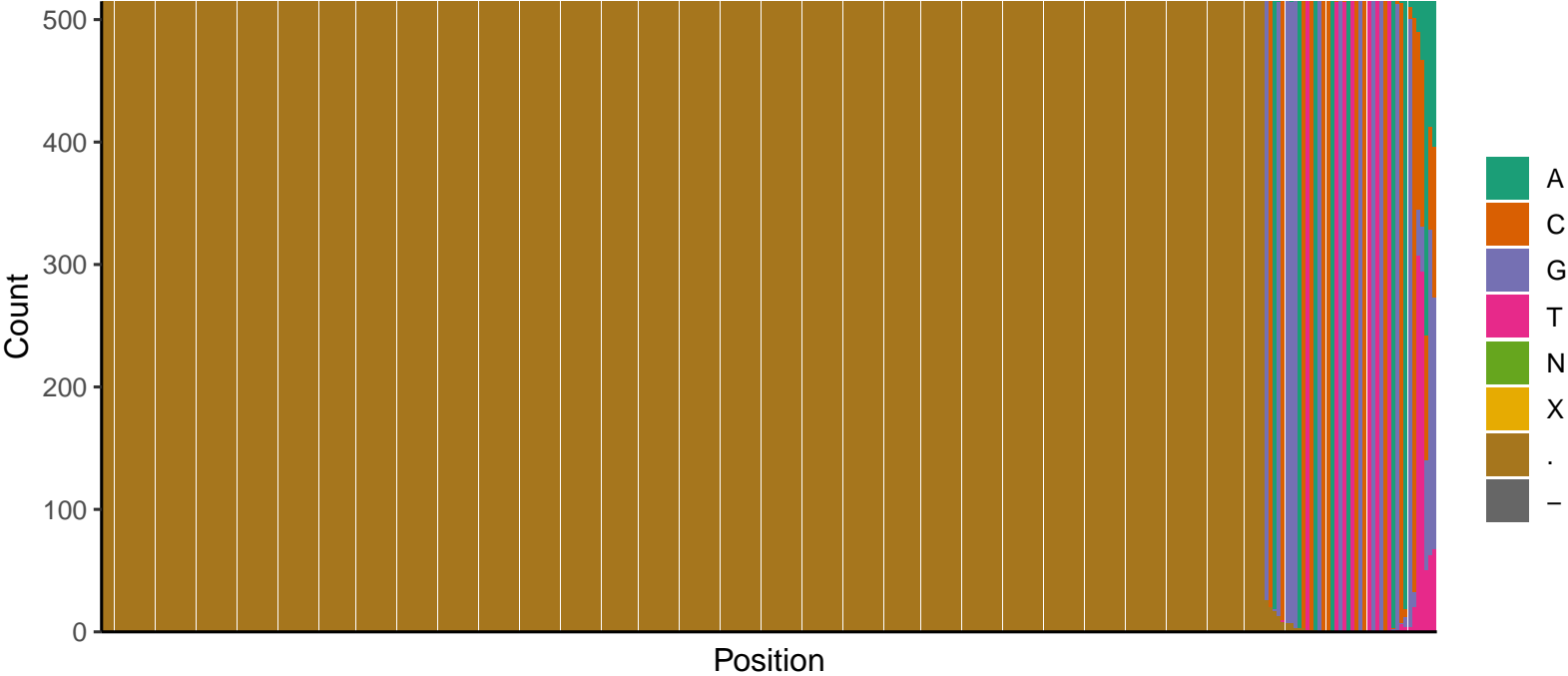
Gene TRBV7-7\*ap01\_C315T



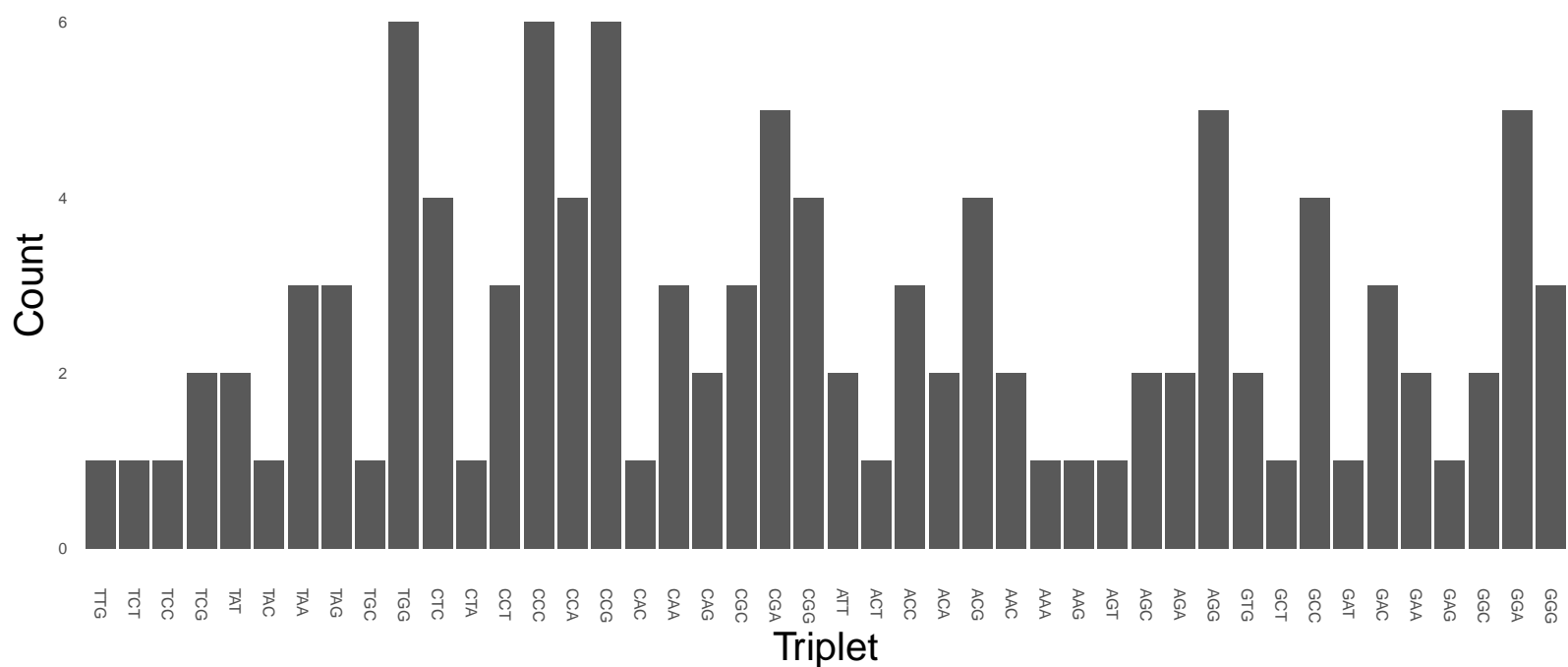
Gene TRBV7-1\*ap01\_T296C



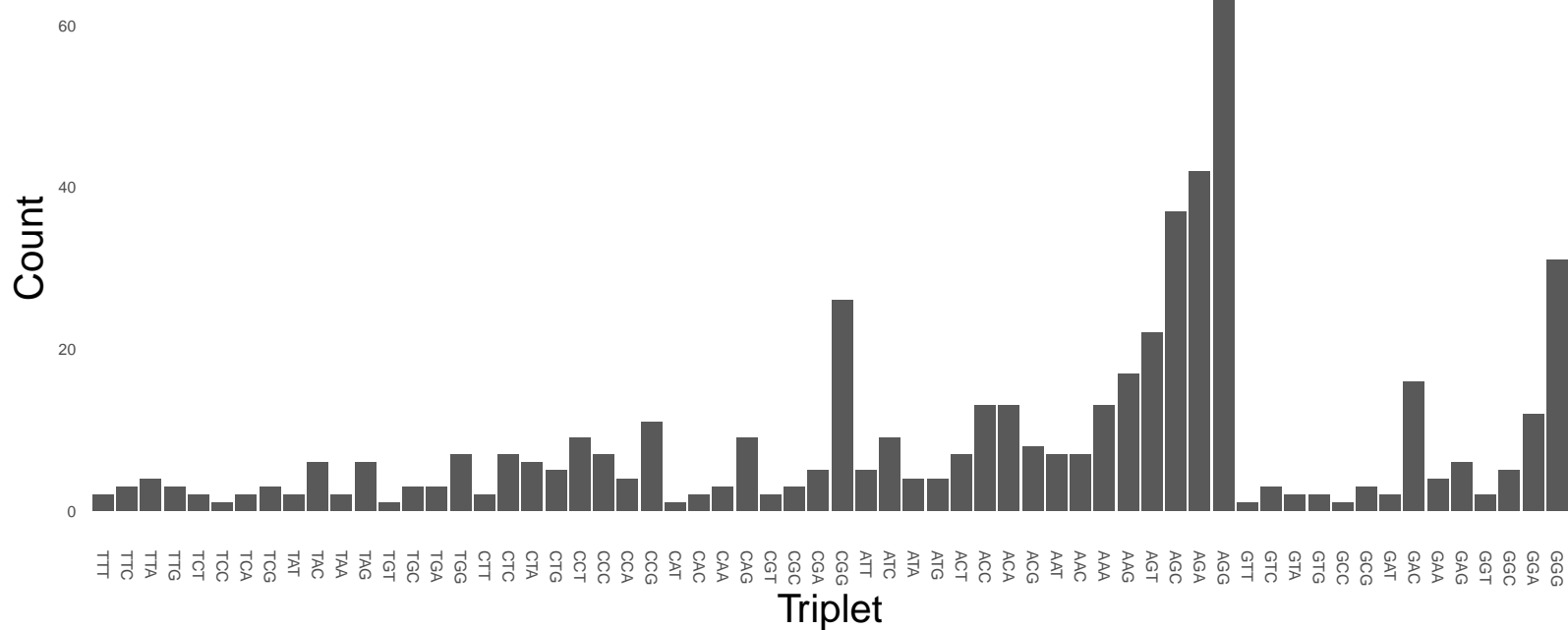
Gene TRBV7-7\*ap01\_C315T



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

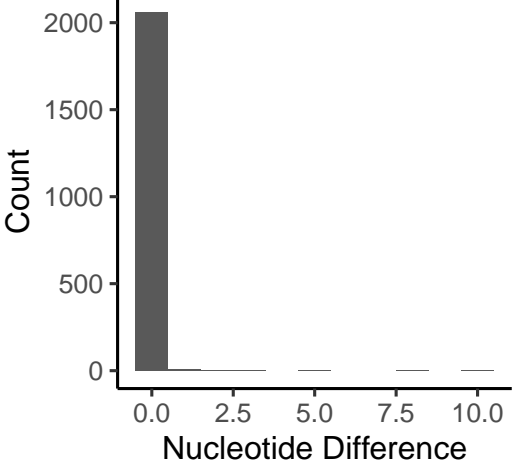


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



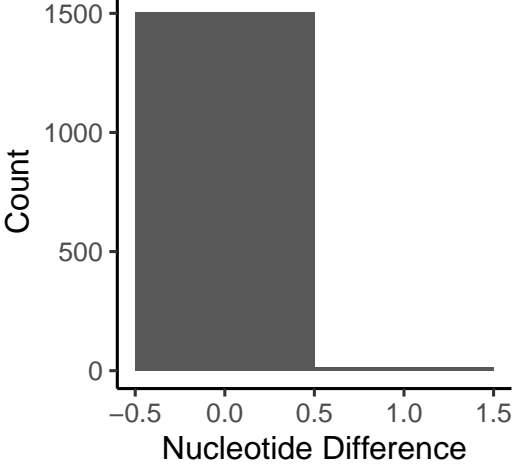
TRBV10-1\*ap01

2073 sequences assigned  
2059 (99.3%) exact matches, in which:  
2026 unique CDR3  
13 unique J



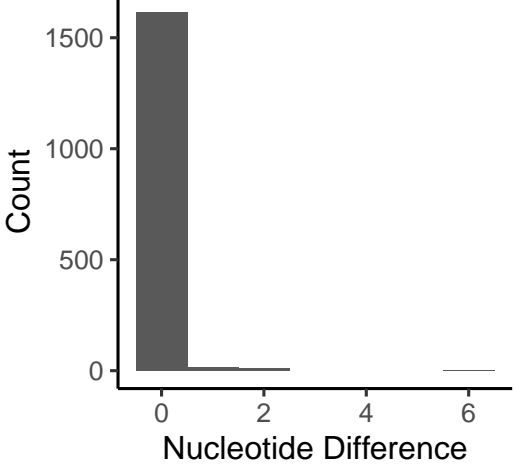
TRBV10-2\*ap01

1519 sequences assigned  
1504 (99%) exact matches, in which:  
1486 unique CDR3  
13 unique J



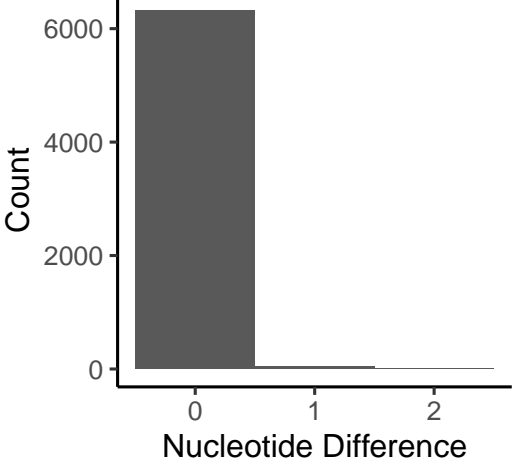
TRBV13\*ap01

1642 sequences assigned  
1614 (98.3%) exact matches, in which:  
1583 unique CDR3  
13 unique J



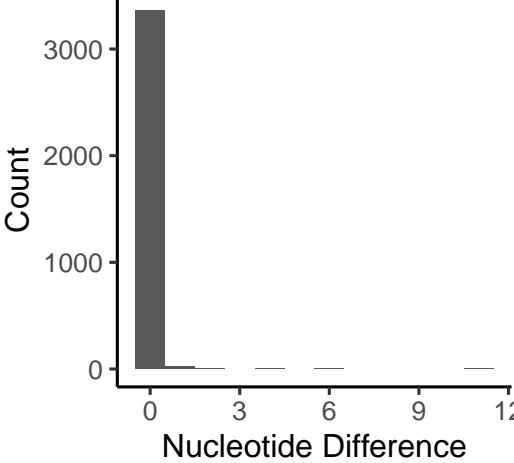
TRBV20-1\*ap01

6353 sequences assigned  
6316 (99.4%) exact matches, in which:  
6255 unique CDR3  
13 unique J



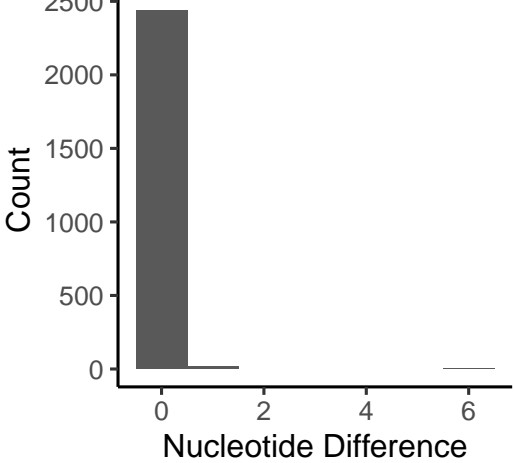
TRBV10-3\*ap01

3394 sequences assigned  
3359 (99%) exact matches, in which:  
3314 unique CDR3  
13 unique J



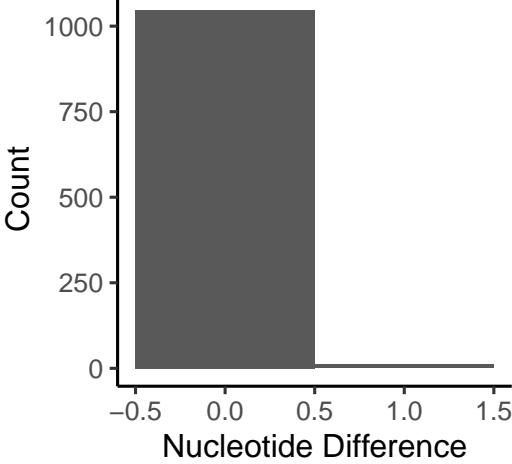
TRBV14\*ap01

2457 sequences assigned  
2436 (99.1%) exact matches, in which:  
2415 unique CDR3  
13 unique J



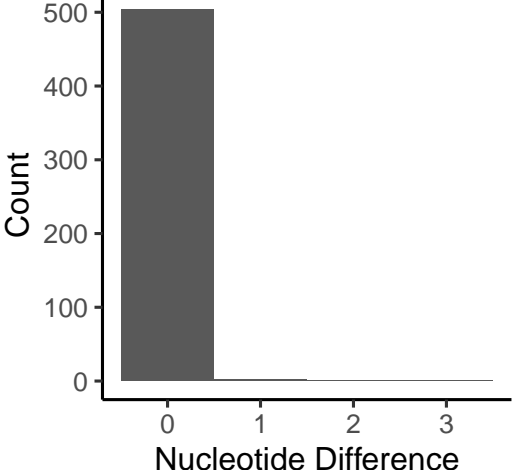
TRBV20-1\*ap02

1058 sequences assigned  
1047 (99%) exact matches, in which:  
1042 unique CDR3  
13 unique J



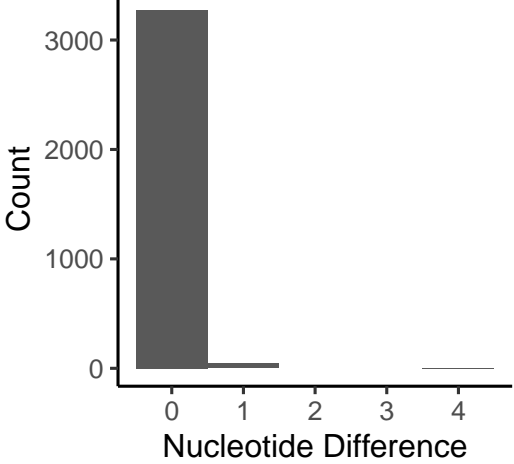
TRBV1\*ap01

508 sequences assigned  
504 (99.2%) exact matches, in which:  
491 unique CDR3  
13 unique J



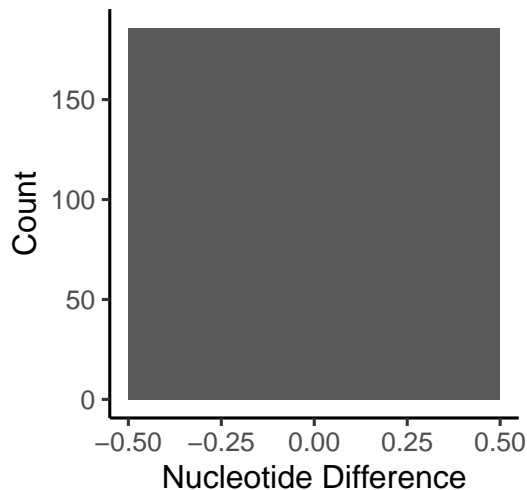
TRBV15\*ap02

3320 sequences assigned  
3274 (98.6%) exact matches, in which:  
3220 unique CDR3  
13 unique J



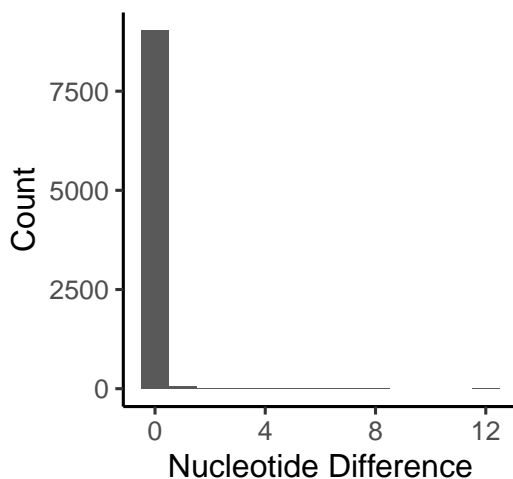
### TRBV16\*ap01

186 sequences assigned  
186 (100%) exact matches, in which:  
183 unique CDR3  
13 unique J



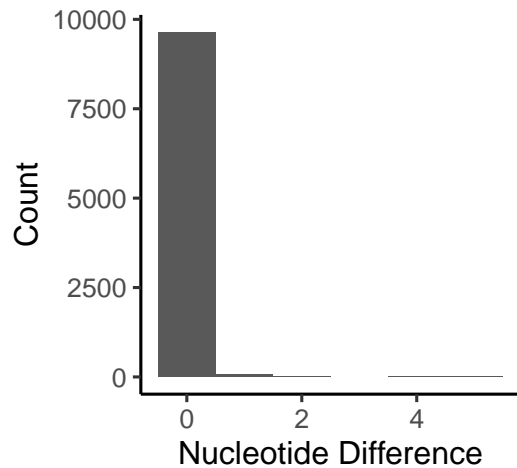
### TRBV19\*ap01

9119 sequences assigned  
9032 (99%) exact matches, in which:  
8978 unique CDR3  
13 unique J



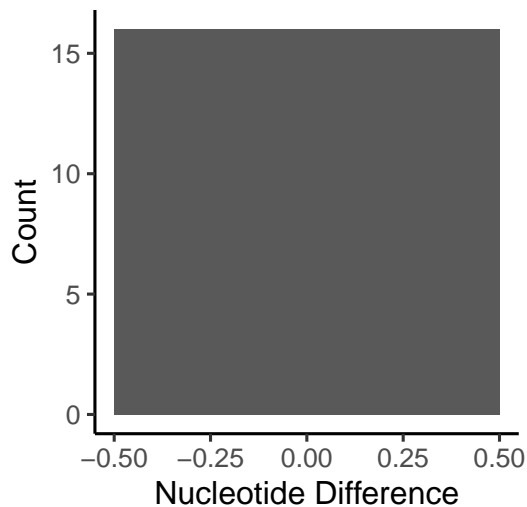
### TRBV28\*ap01

9714 sequences assigned  
9642 (99.3%) exact matches, in which:  
9544 unique CDR3  
13 unique J



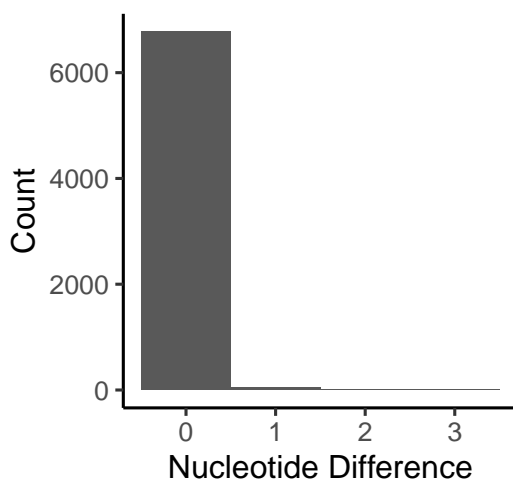
### TRBV17\*ap01

16 sequences assigned  
16 (100%) exact matches, in which:  
16 unique CDR3  
7 unique J



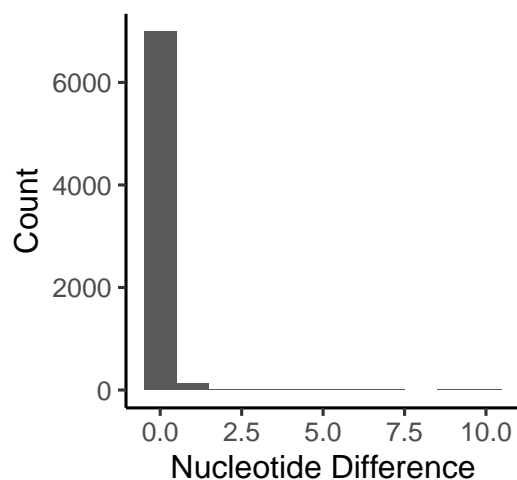
### TRBV2\*ap01

6837 sequences assigned  
6774 (99.1%) exact matches, in which:  
6668 unique CDR3  
13 unique J



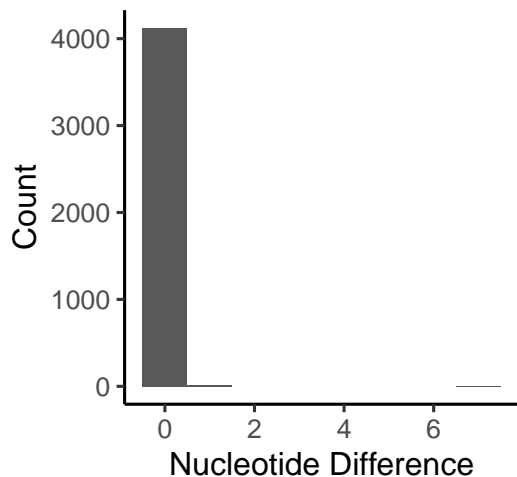
### TRBV30\*ap01

7135 sequences assigned  
6989 (98%) exact matches, in which:  
6851 unique CDR3  
13 unique J



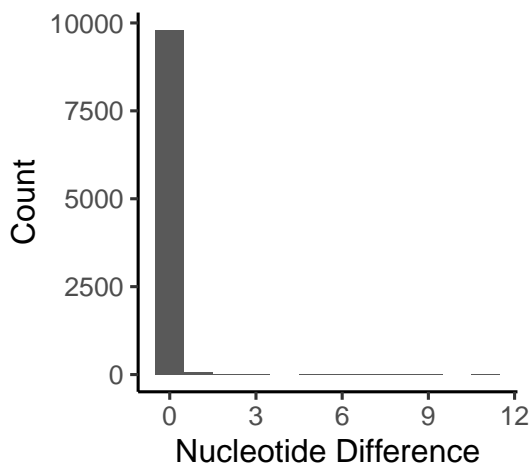
### TRBV18\*ap01

4136 sequences assigned  
4122 (99.7%) exact matches, in which:  
4093 unique CDR3  
13 unique J



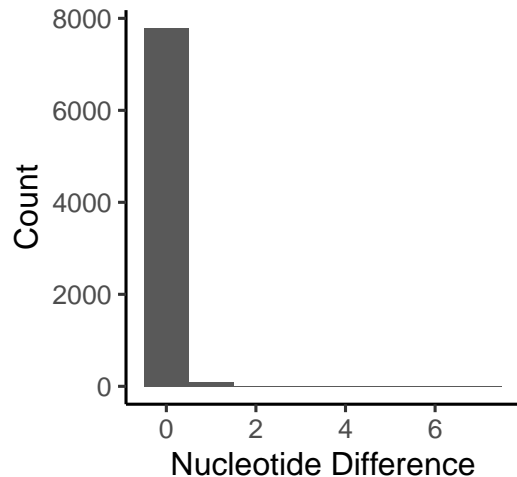
### TRBV27\*ap01

9885 sequences assigned  
9805 (99.2%) exact matches, in which:  
9672 unique CDR3  
13 unique J



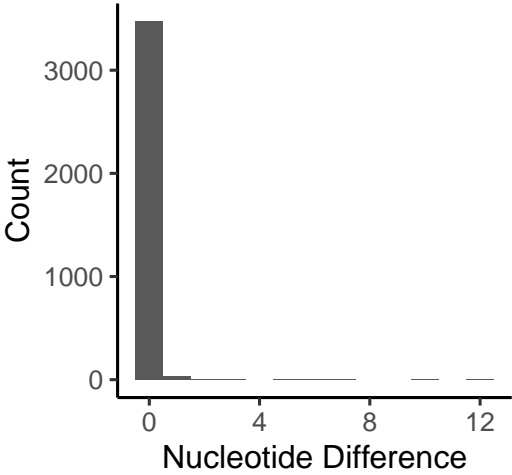
### TRBV9\*ap01

7890 sequences assigned  
7789 (98.7%) exact matches, in which:  
7713 unique CDR3  
13 unique J



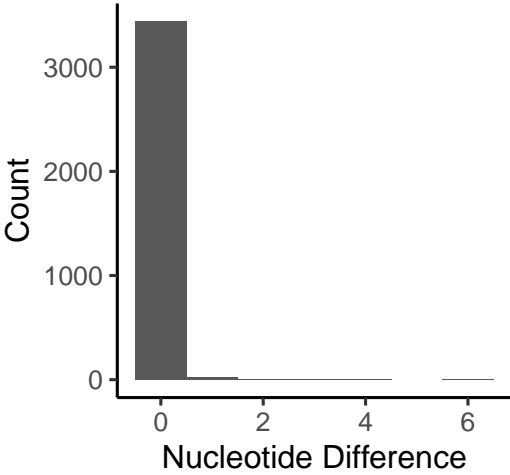
TRBV21-1\*ap01

3528 sequences assigned  
3473 (98.4%) exact matches, in which:  
3452 unique CDR3  
13 unique J



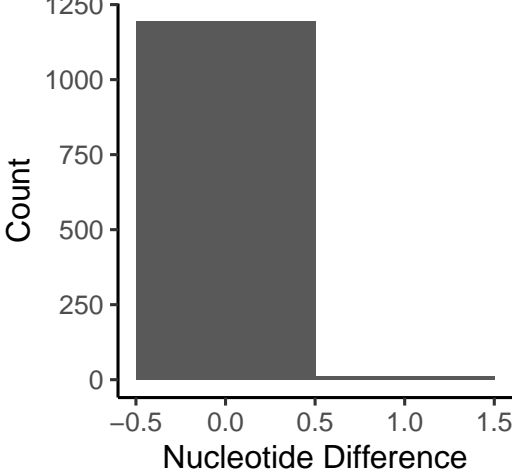
TRBV11-3\*ap01

3474 sequences assigned  
3440 (99%) exact matches, in which:  
3424 unique CDR3  
13 unique J



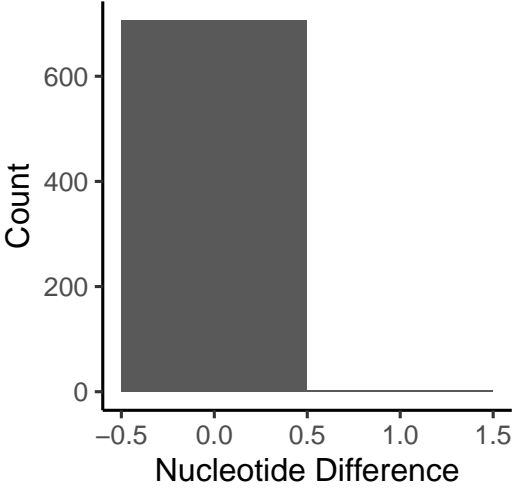
TRBV12-5\*ap01

1206 sequences assigned  
1194 (99%) exact matches, in which:  
1181 unique CDR3  
13 unique J



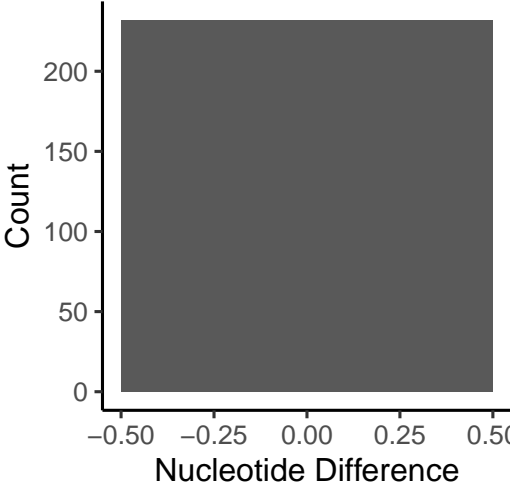
TRBV11-1\*ap01

710 sequences assigned  
707 (99.6%) exact matches, in which:  
701 unique CDR3  
13 unique J



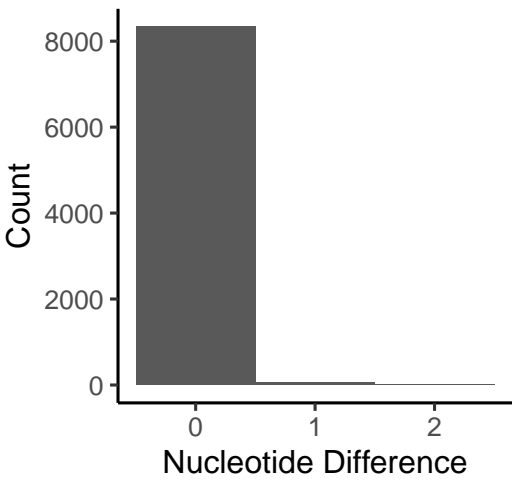
TRBV12-1\*ap01

232 sequences assigned  
232 (100%) exact matches, in which:  
228 unique CDR3  
11 unique J



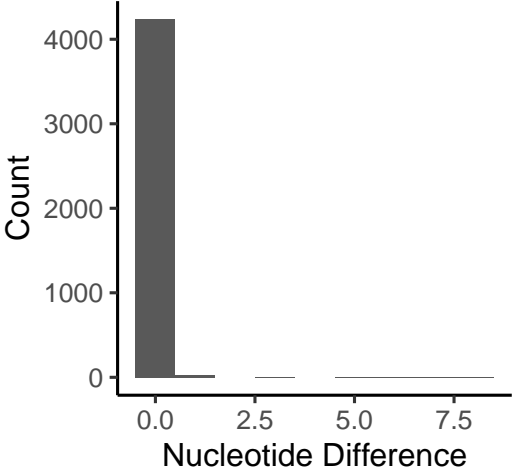
TRBV12-34\*ap01

8397 sequences assigned  
8336 (99.3%) exact matches, in which:  
8244 unique CDR3  
13 unique J



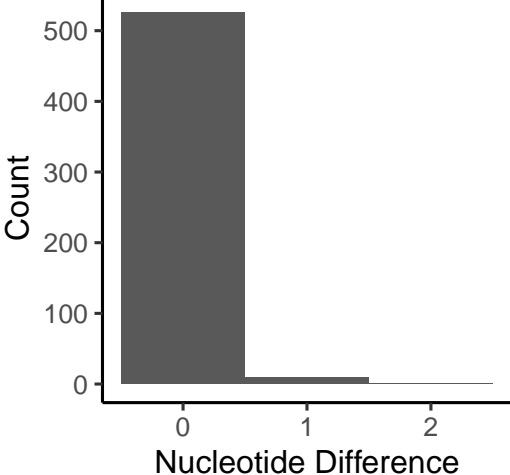
TRBV11-2\*ap01

4273 sequences assigned  
4239 (99.2%) exact matches, in which:  
4217 unique CDR3  
13 unique J



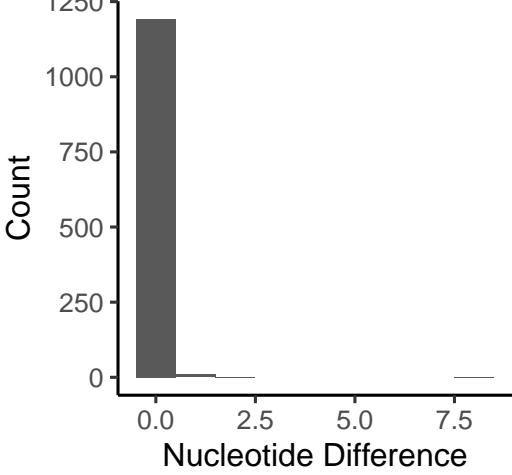
TRBV12-2\*ap01

536 sequences assigned  
526 (98.1%) exact matches, in which:  
518 unique CDR3  
13 unique J



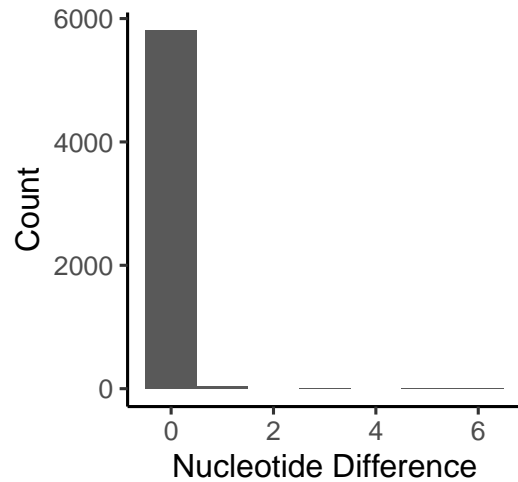
TRBV23-1\*ap01

1204 sequences assigned  
1192 (99%) exact matches, in which:  
1179 unique CDR3  
13 unique J



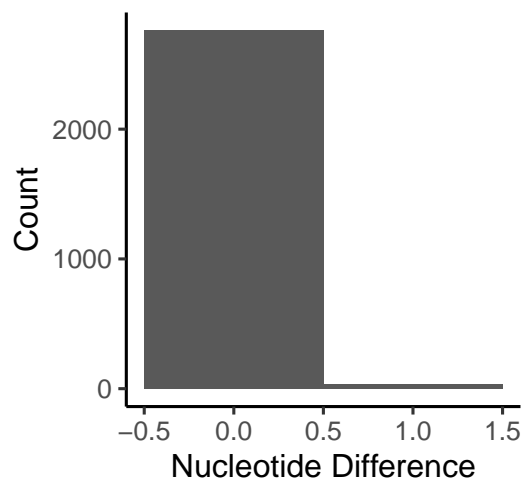
### TRBV3-12\*ap01

5849 sequences assigned  
5808 (99.3%) exact matches, in which:  
5767 unique CDR3  
13 unique J



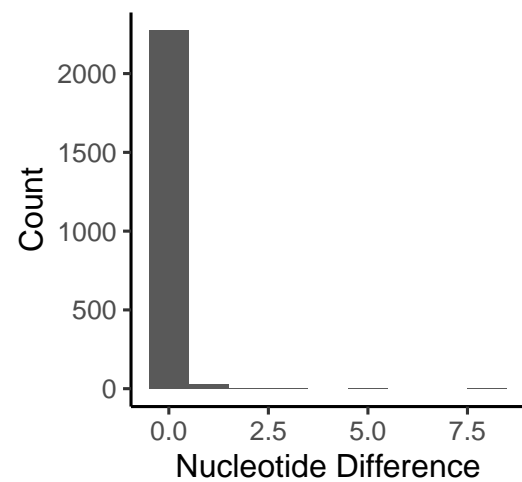
### TRBV4-2\*ap01

2795 sequences assigned  
2761 (98.8%) exact matches, in which:  
2720 unique CDR3  
13 unique J



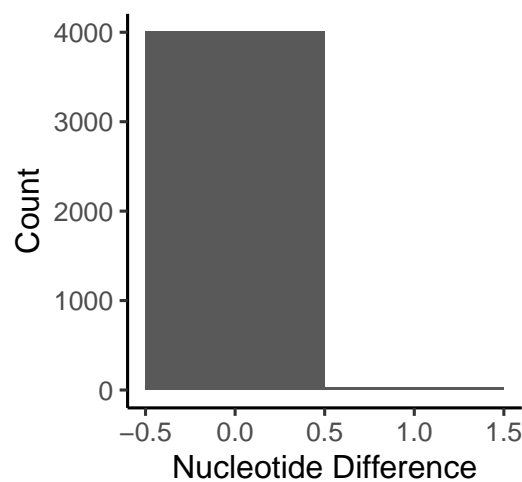
### TRBV25-1\*ap01

2310 sequences assigned  
2274 (98.4%) exact matches, in which:  
2238 unique CDR3  
13 unique J



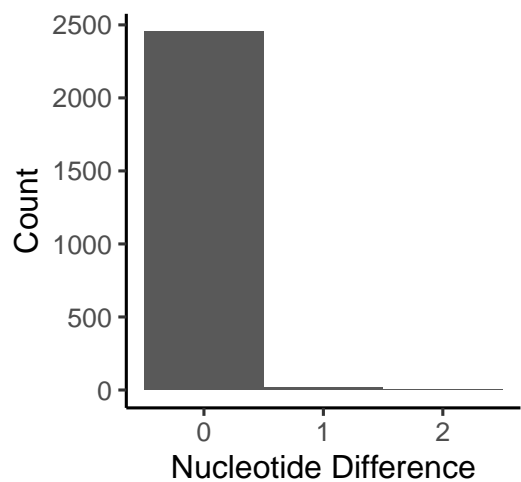
### TRBV4-1\*ap01

4038 sequences assigned  
4006 (99.2%) exact matches, in which:  
3926 unique CDR3  
13 unique J



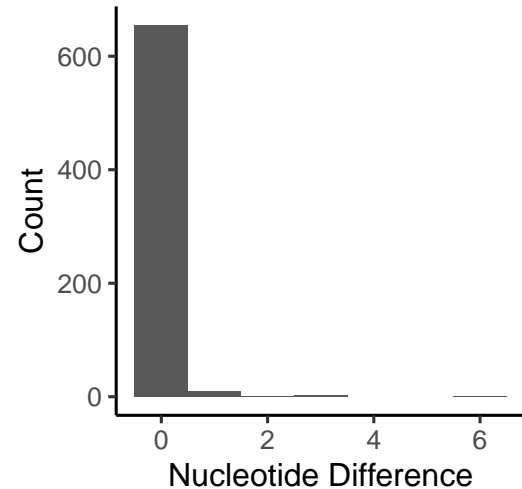
### TRBV4-3\*ap01

2473 sequences assigned  
2453 (99.2%) exact matches, in which:  
2410 unique CDR3  
13 unique J



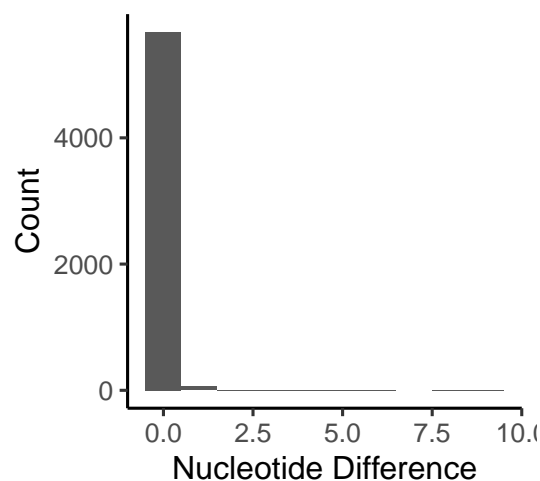
### TRBV5-3\*ap01

669 sequences assigned  
655 (97.9%) exact matches, in which:  
644 unique CDR3  
13 unique J



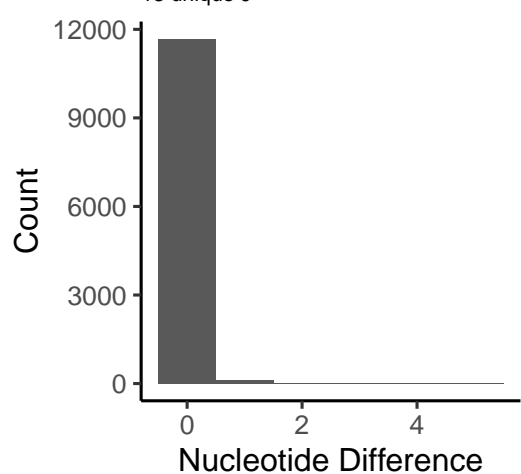
### TRBV24-1\*ap01

5749 sequences assigned  
5676 (98.7%) exact matches, in which:  
5604 unique CDR3  
13 unique J



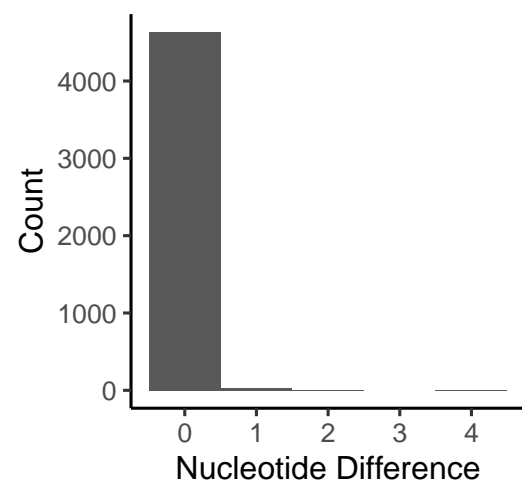
### TRBV5-1\*ap01

11821 sequences assigned  
11680 (98.8%) exact matches, in which:  
11485 unique CDR3  
13 unique J



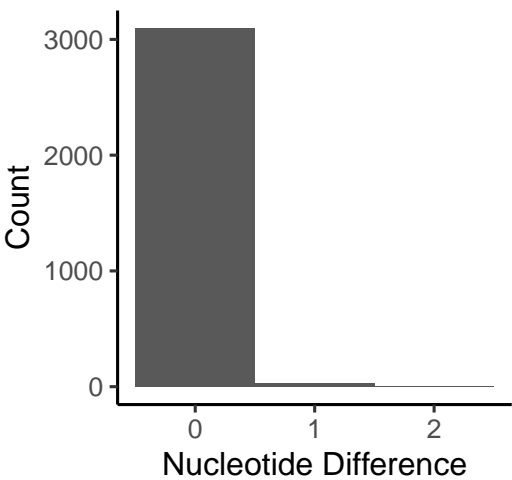
### TRBV5-4\*ap01

4668 sequences assigned  
4633 (99.3%) exact matches, in which:  
4554 unique CDR3  
13 unique J



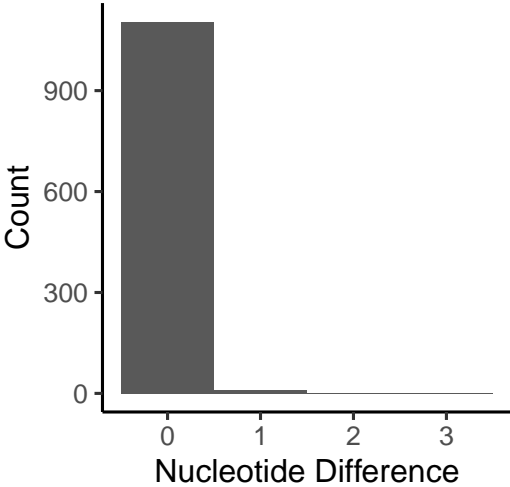
TRBV5-5\*ap01

3129 sequences assigned  
3095 (98.9%) exact matches, in which:  
3036 unique CDR3  
13 unique J



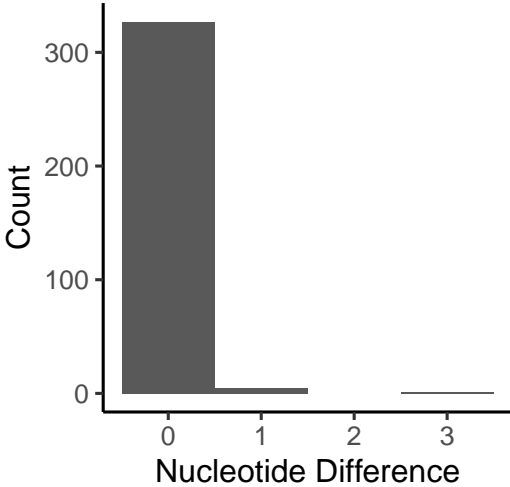
TRBV5-8\*ap01

1119 sequences assigned  
1105 (98.7%) exact matches, in which:  
1094 unique CDR3  
13 unique J



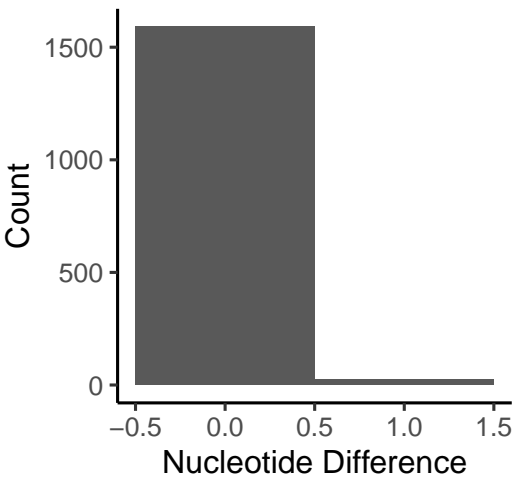
TRBV6-7\*ap01

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



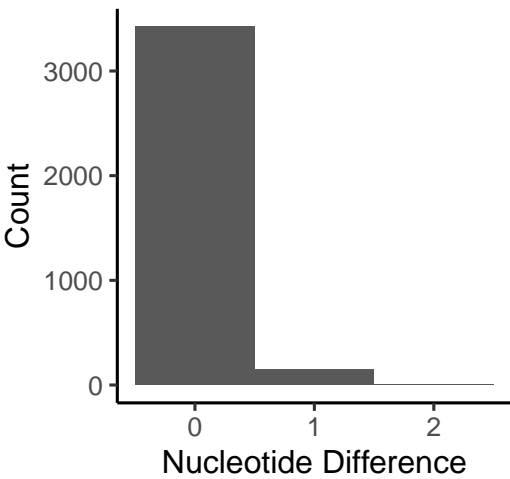
TRBV5-6\*ap01

1614 sequences assigned  
1591 (98.6%) exact matches, in which:  
1556 unique CDR3  
13 unique J



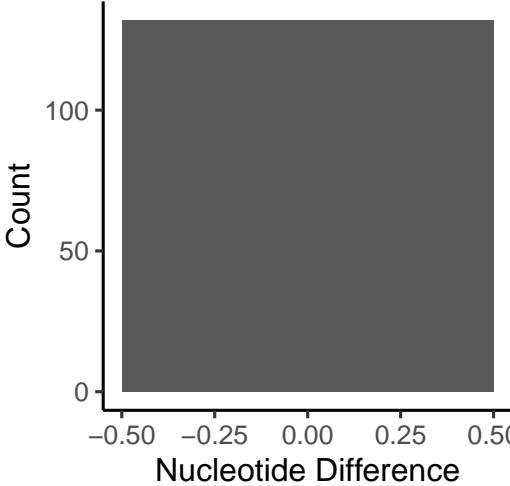
TRBV6-1\*ap01

3569 sequences assigned  
3423 (95.9%) exact matches, in which:  
3366 unique CDR3  
13 unique J



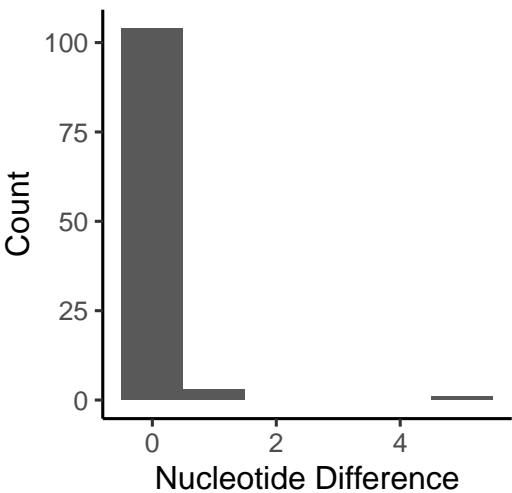
TRBV6-8\*ap01

132 sequences assigned  
132 (100%) exact matches, in which:  
129 unique CDR3  
12 unique J



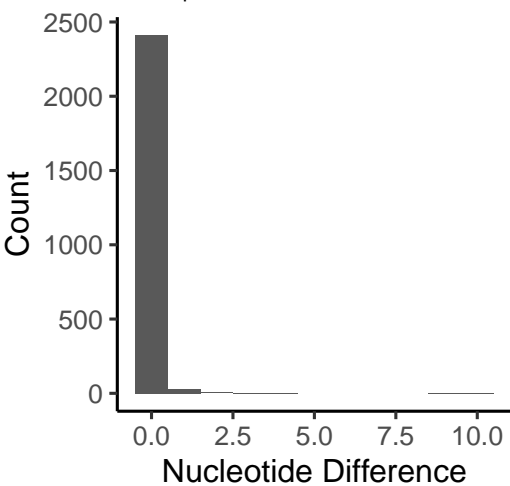
TRBV5-7\*ap01

108 sequences assigned  
104 (96.3%) exact matches, in which:  
100 unique CDR3  
13 unique J



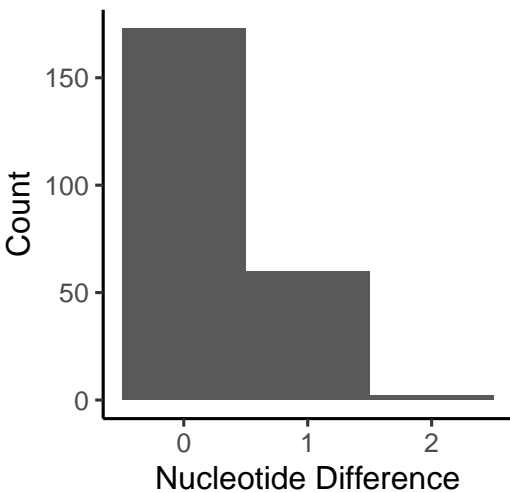
TRBV6-4\*ap01

2454 sequences assigned  
2412 (98.3%) exact matches, in which:  
2386 unique CDR3  
13 unique J



TRBV6-9\*ap01

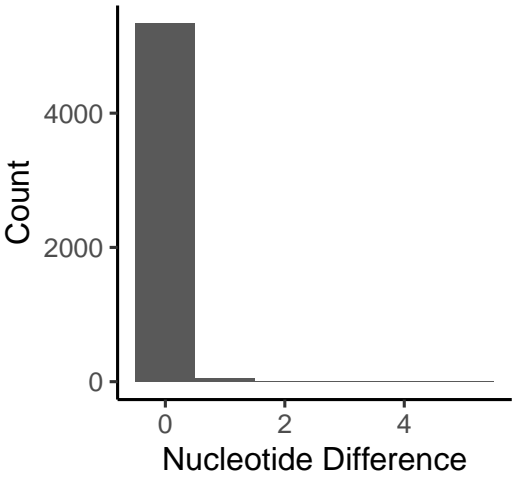
235 sequences assigned  
173 (73.6%) exact matches, in which:  
170 unique CDR3  
13 unique J





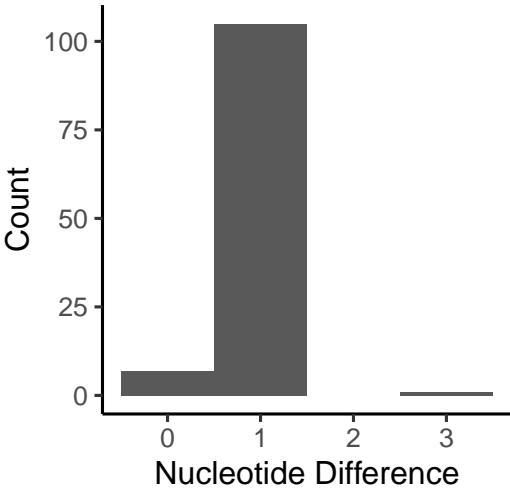
TRBV6-23\*ap01

5389 sequences assigned  
5337 (99%) exact matches, in which:  
5199 unique CDR3  
13 unique J



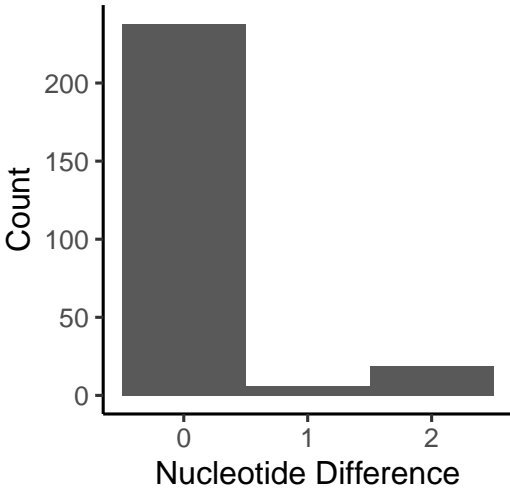
TRBV7-1\*ap01\_T296C

113 sequences assigned  
7 (6.2%) exact matches, in which:  
7 unique CDR3  
4 unique J



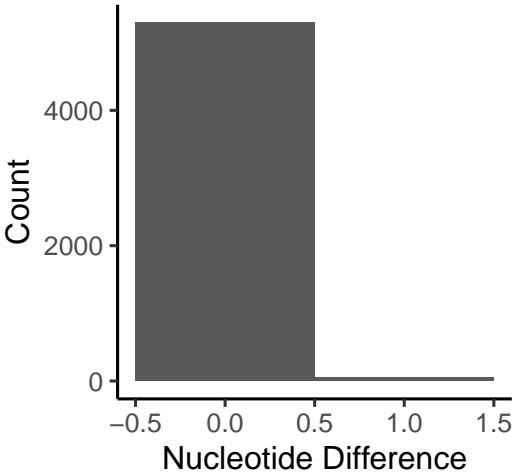
TRBV7-4\*ap01

263 sequences assigned  
238 (90.5%) exact matches, in which:  
236 unique CDR3  
13 unique J



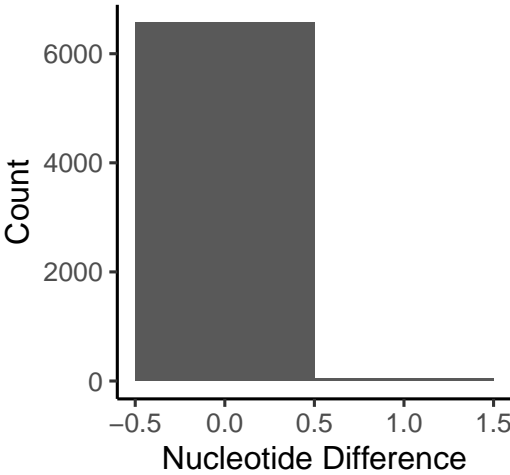
TRBV6-56\*ap01

5346 sequences assigned  
5295 (99%) exact matches, in which:  
5187 unique CDR3  
13 unique J



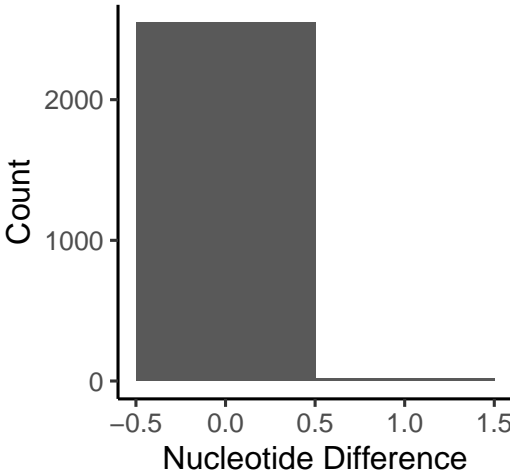
TRBV7-2\*ap01

6617 sequences assigned  
6568 (99.3%) exact matches, in which:  
6505 unique CDR3  
13 unique J



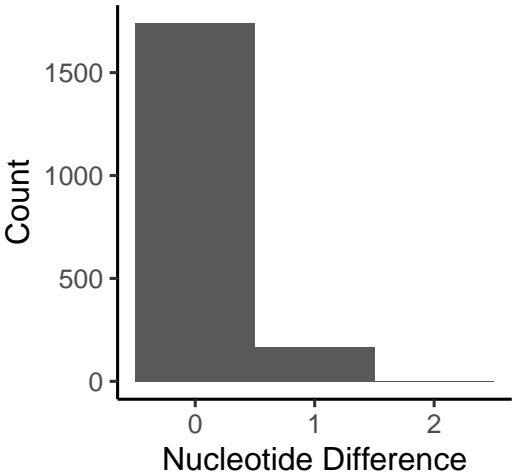
TRBV7-6\*ap01

2563 sequences assigned  
2547 (99.4%) exact matches, in which:  
2525 unique CDR3  
13 unique J



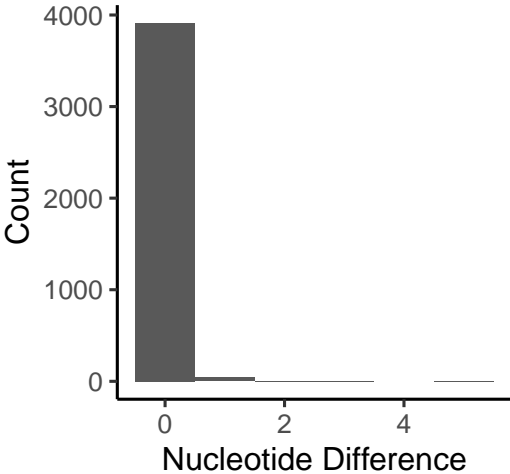
TRBV6-56\*ap02

1911 sequences assigned  
1741 (91.1%) exact matches, in which:  
1700 unique CDR3  
13 unique J



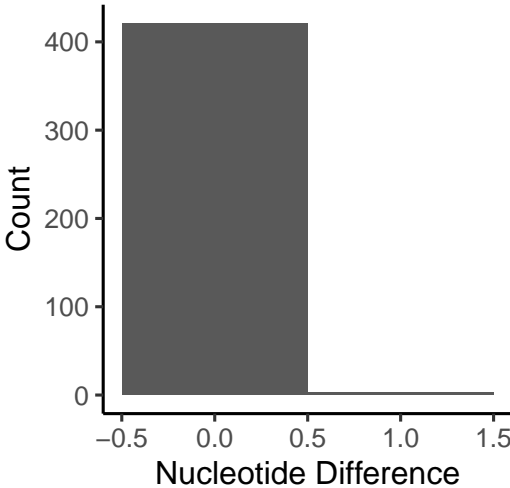
TRBV7-3\*ap01

3961 sequences assigned  
3912 (98.8%) exact matches, in which:  
3871 unique CDR3  
13 unique J



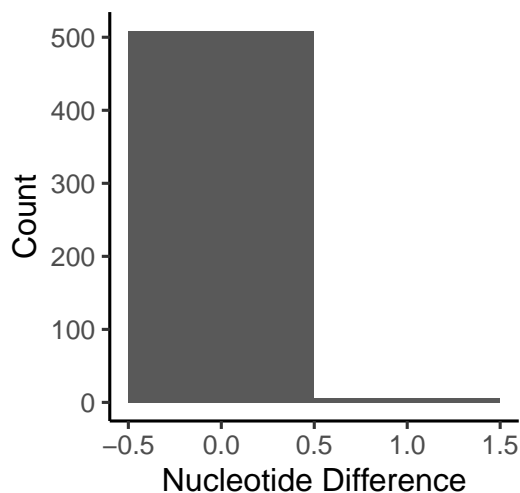
TRBV7-7\*ap01

424 sequences assigned  
421 (99.3%) exact matches, in which:  
416 unique CDR3  
13 unique J



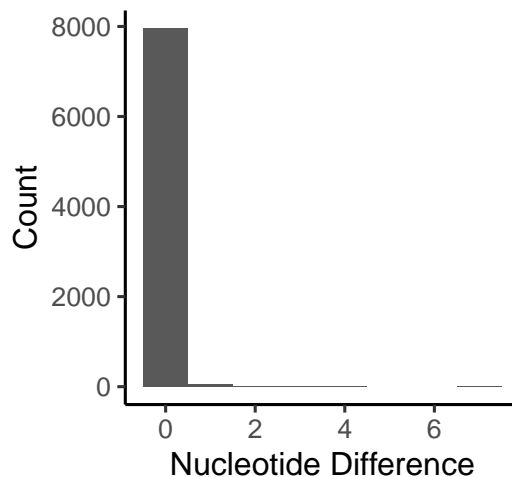
### TRBV7-7\*ap01\_C315T

515 sequences assigned  
509 (98.8%) exact matches, in which:  
503 unique CDR3  
13 unique J



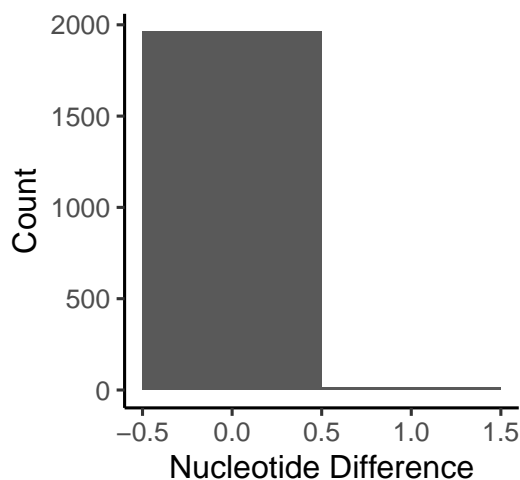
### TRBV7-9\*ap01

8024 sequences assigned  
7957 (99.2%) exact matches, in which:  
7867 unique CDR3  
13 unique J



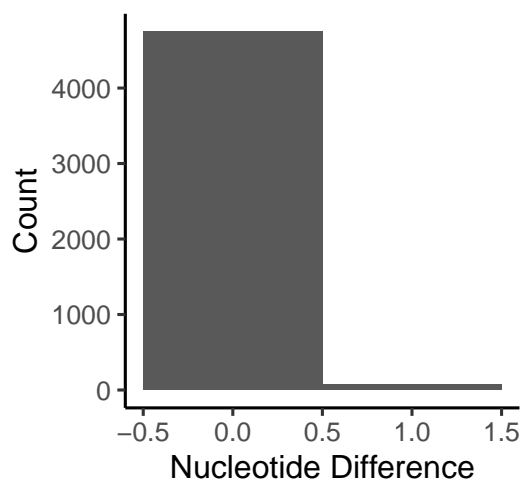
### TRBV7-8\*ap01

1974 sequences assigned  
1962 (99.4%) exact matches, in which:  
1939 unique CDR3  
13 unique J



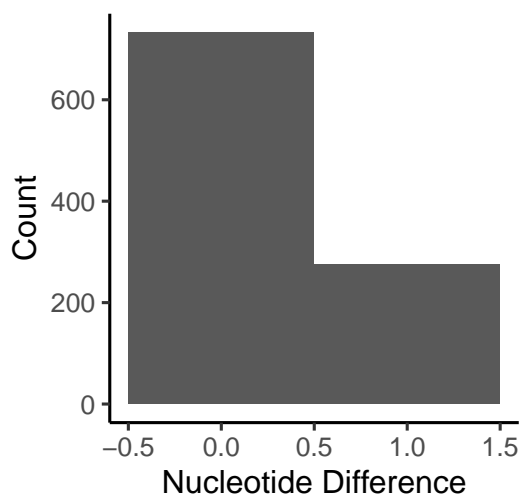
### TRBV29-1\*ap01

4816 sequences assigned  
4746 (98.5%) exact matches, in which:  
4633 unique CDR3  
13 unique J



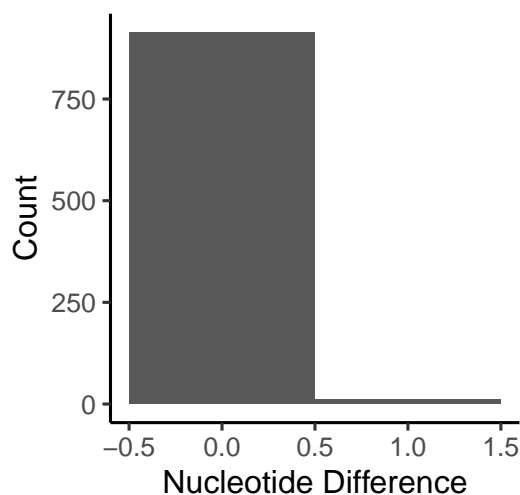
### TRBV7-8\*ap03

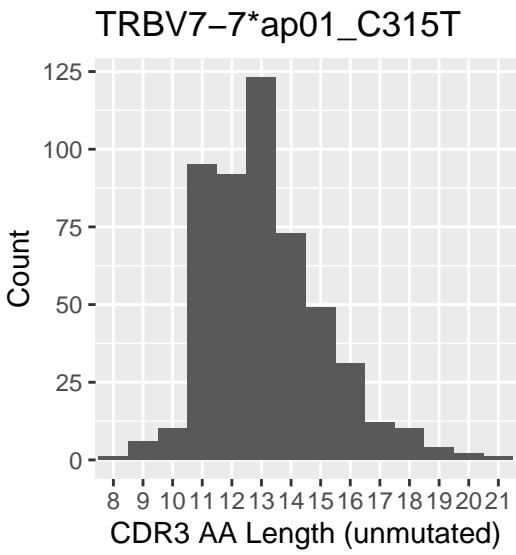
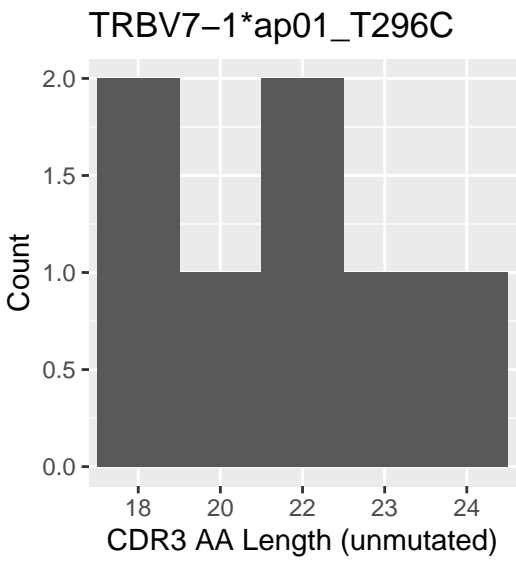
1008 sequences assigned  
733 (72.7%) exact matches, in which:  
718 unique CDR3  
13 unique J



### TRBV29-1\*ap02

925 sequences assigned  
914 (98.8%) exact matches, in which:  
890 unique CDR3  
13 unique J







[illegible]