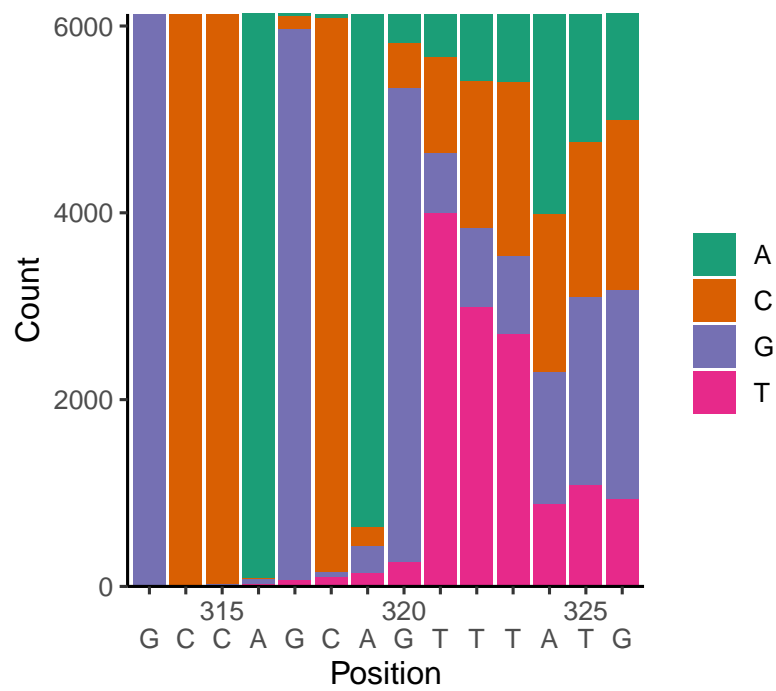
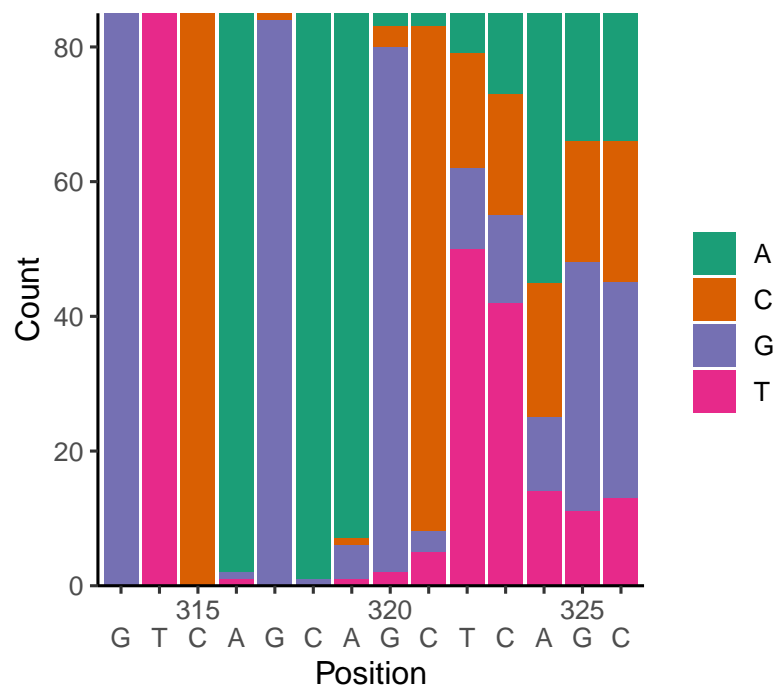


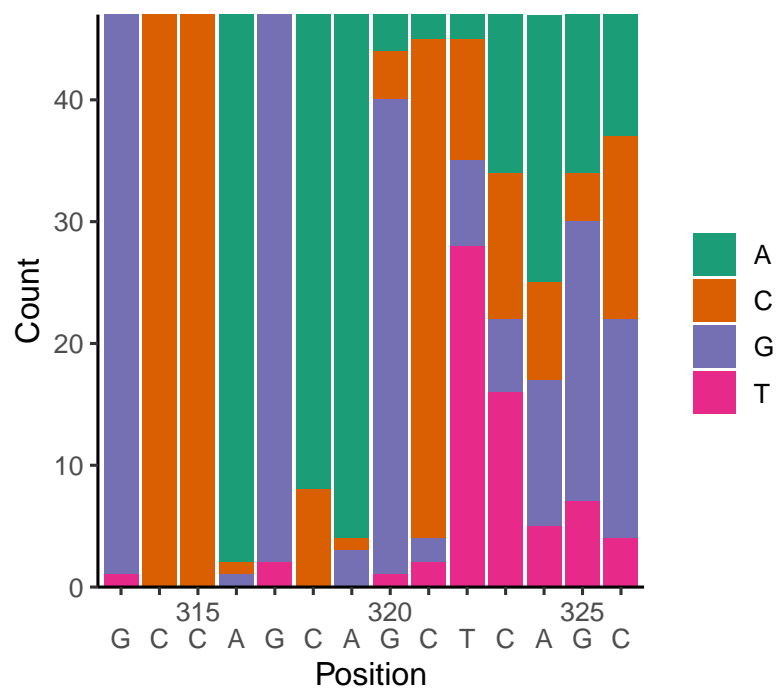
Gene TRBV28\*ap01\_A297G



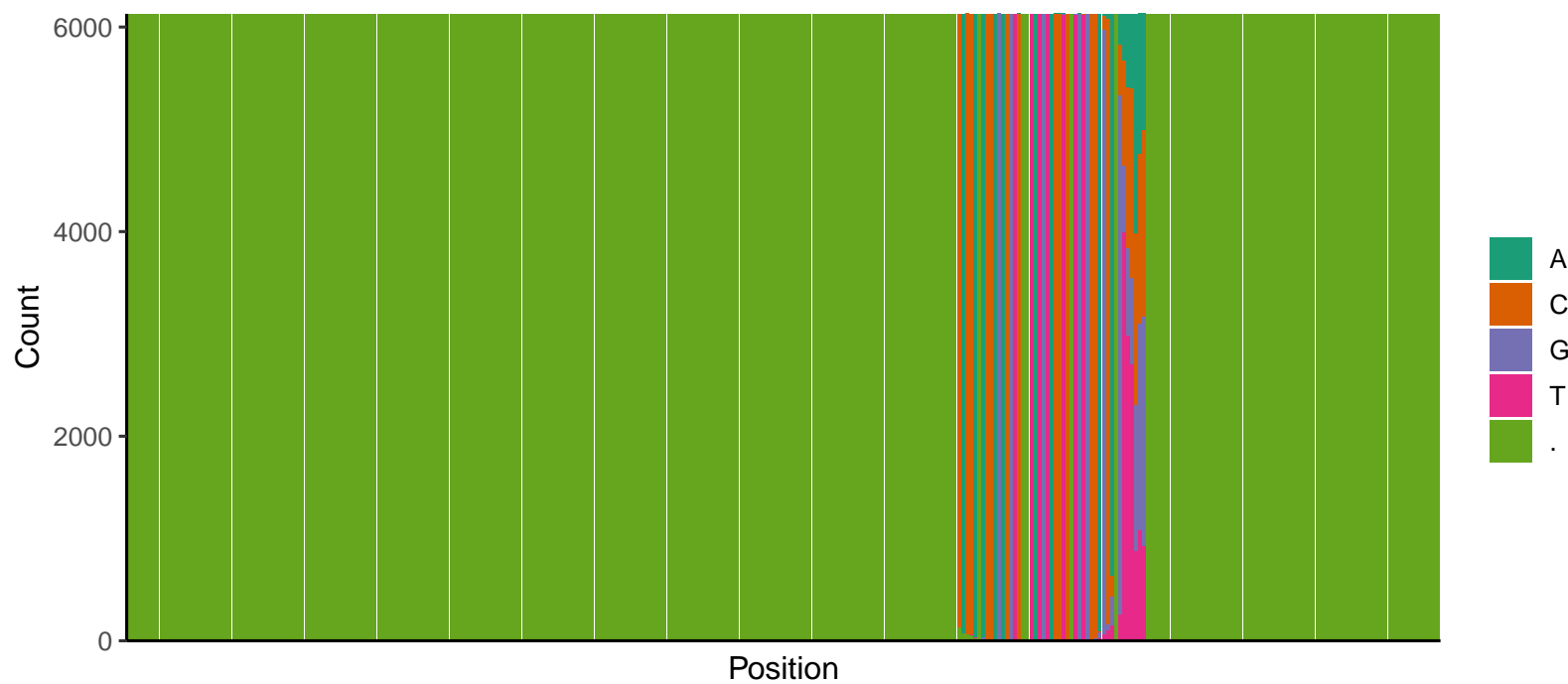
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV28\*ap01\_A297G



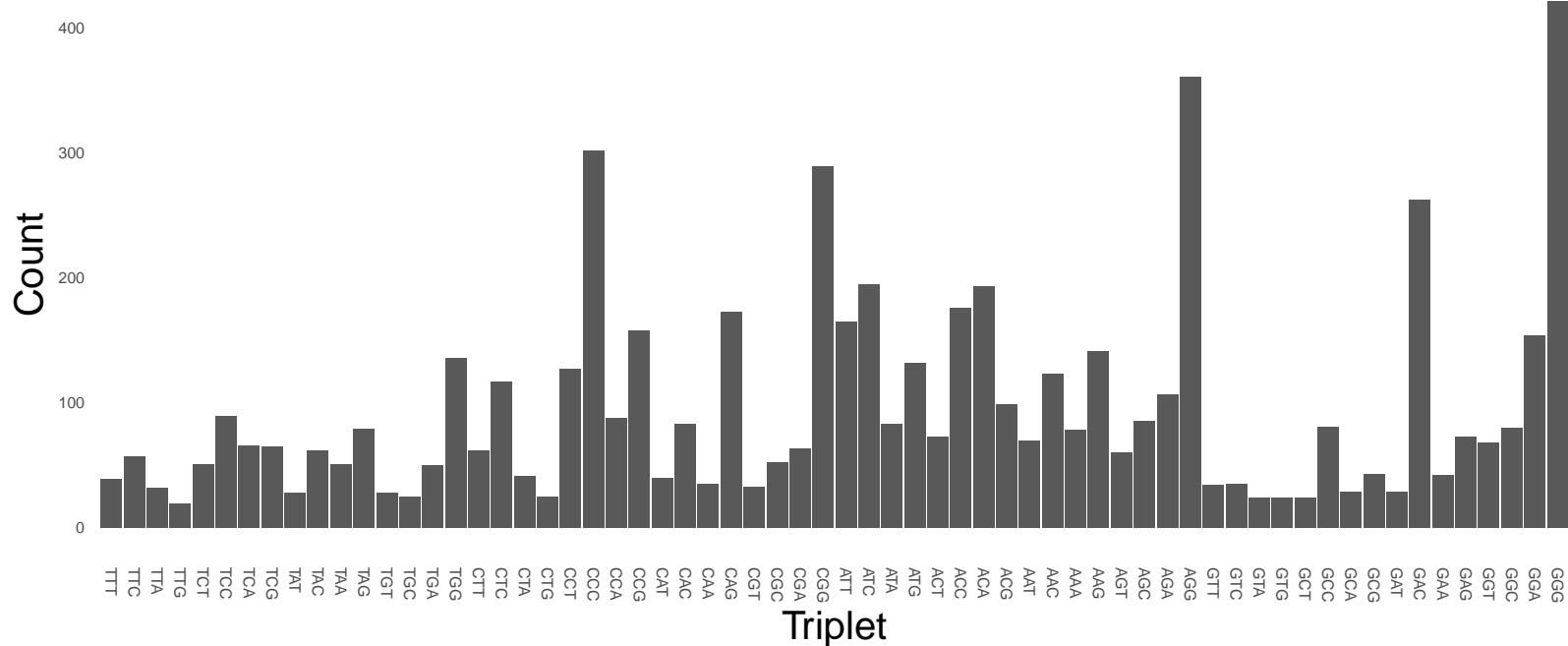
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



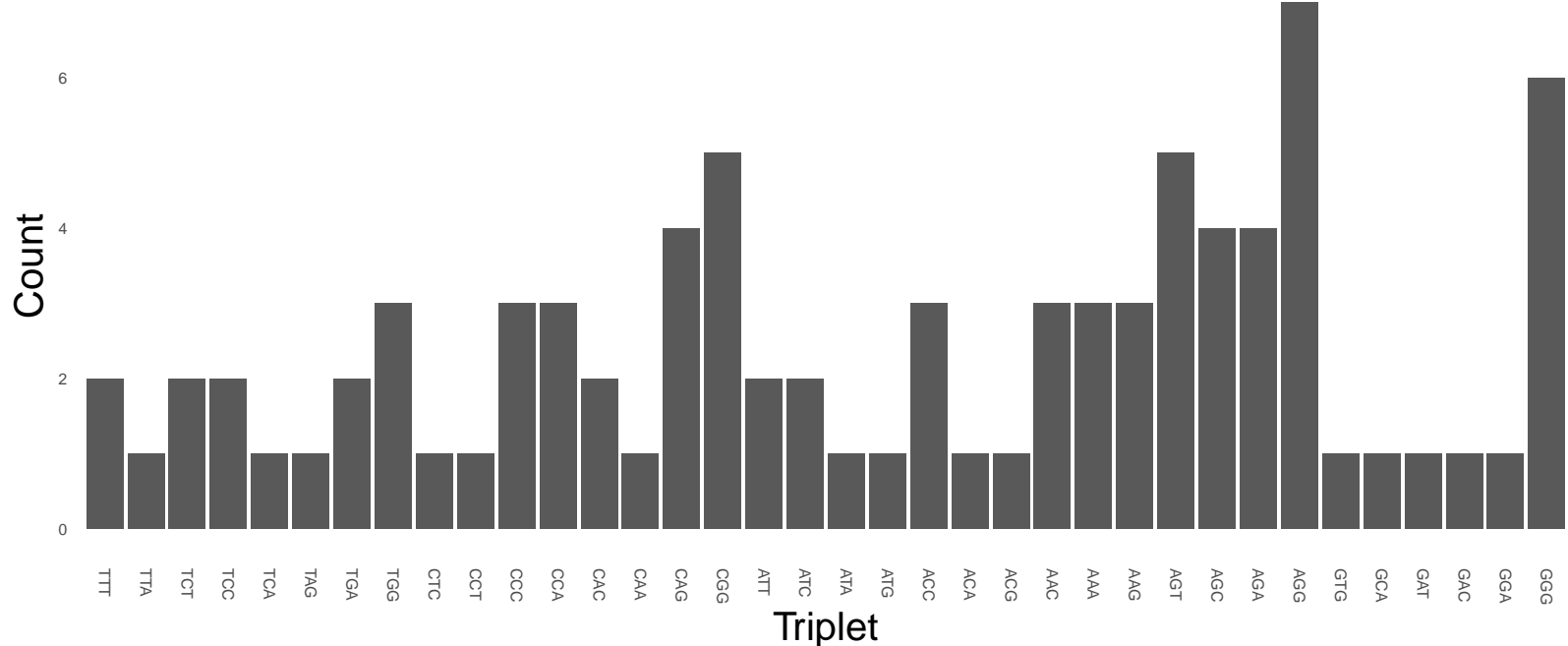
Gene TRBV7-1\*ap01\_G291C\_T296C



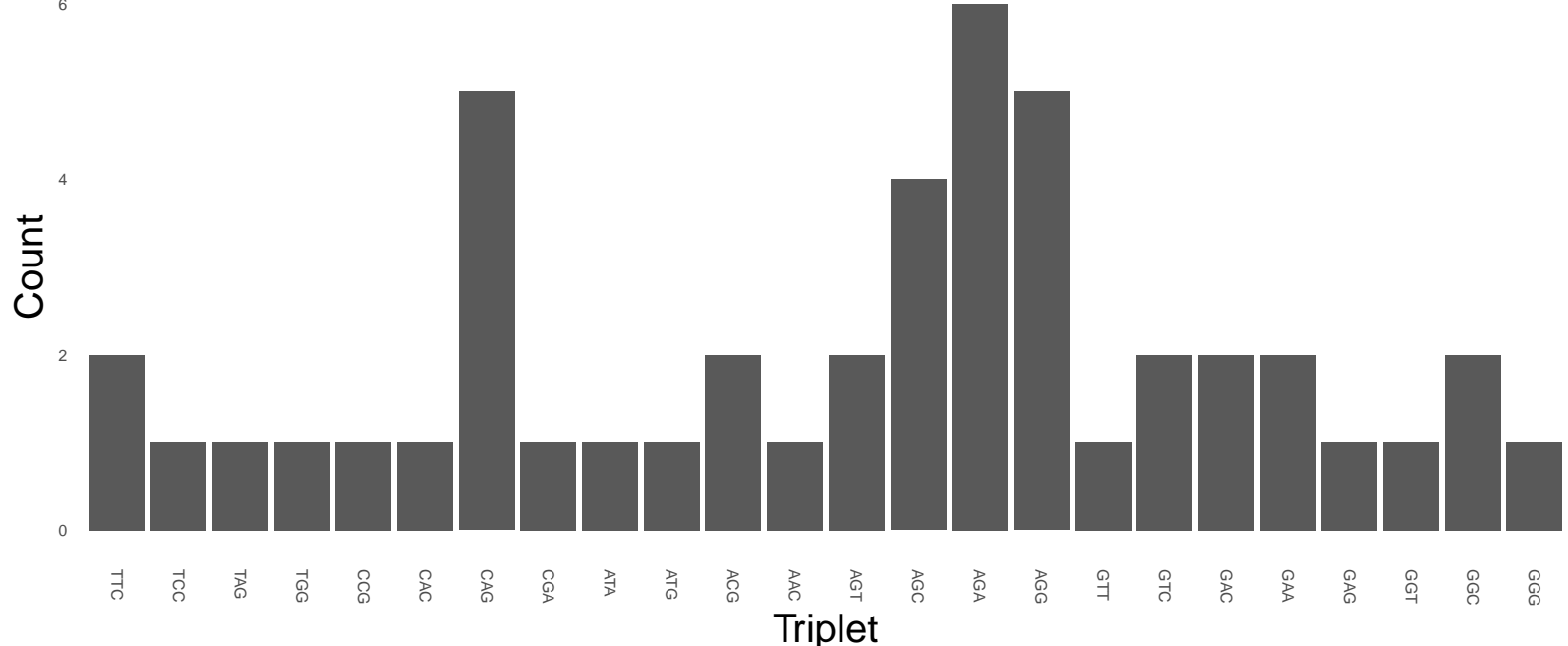
TRBV28\*ap01\_A297G– Final 3 nucleotides as a triplet



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

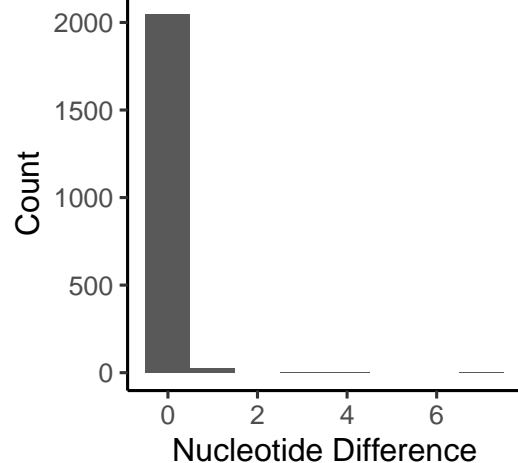


TRBV7-1\*ap01\_G291C\_T296C– Final 3 nucleotides as a triplet



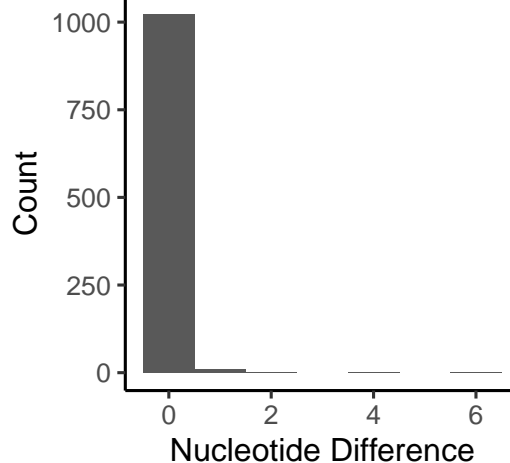
### TRBV10-1\*ap01

2073 sequences assigned  
2046 (98.7%) exact matches, in which:  
2001 unique CDR3  
13 unique J



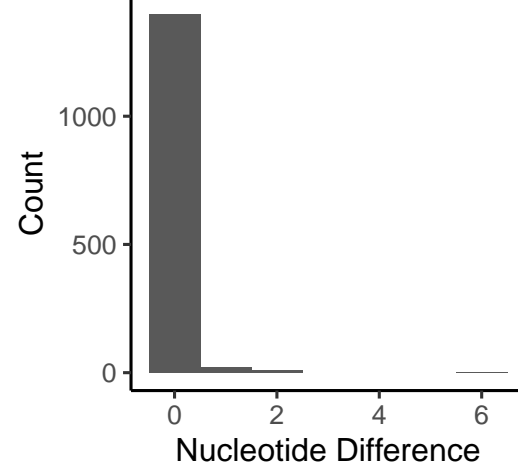
### TRBV10-2\*ap01

1036 sequences assigned  
1022 (98.6%) exact matches, in which:  
1000 unique CDR3  
13 unique J



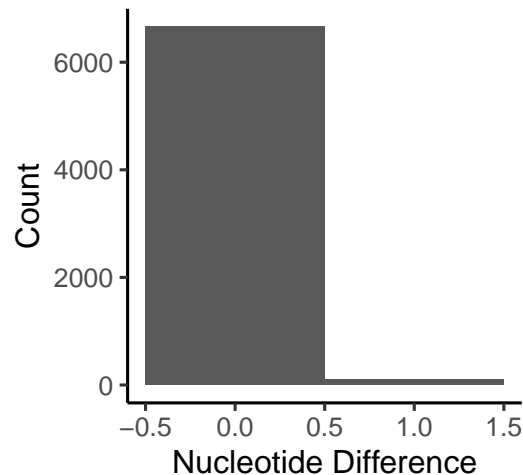
### TRBV13\*ap01

1431 sequences assigned  
1397 (97.6%) exact matches, in which:  
1363 unique CDR3  
13 unique J



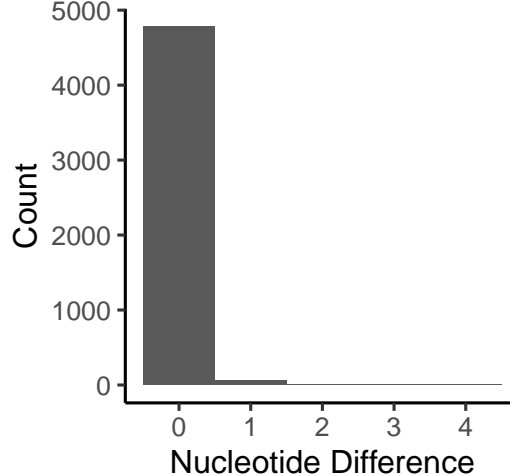
### TRBV20-1\*ap01

6756 sequences assigned  
6660 (98.6%) exact matches, in which:  
6568 unique CDR3  
13 unique J



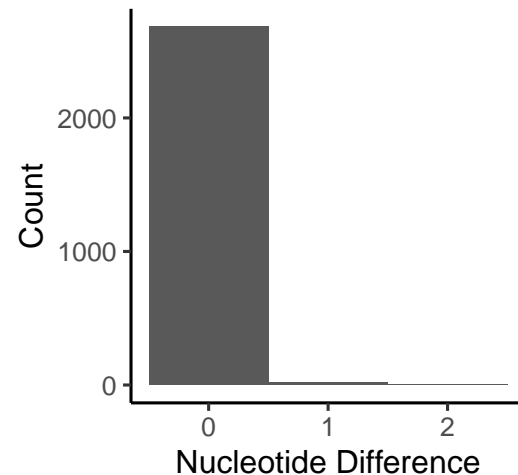
### TRBV10-3\*ap01

4848 sequences assigned  
4779 (98.6%) exact matches, in which:  
4703 unique CDR3  
13 unique J



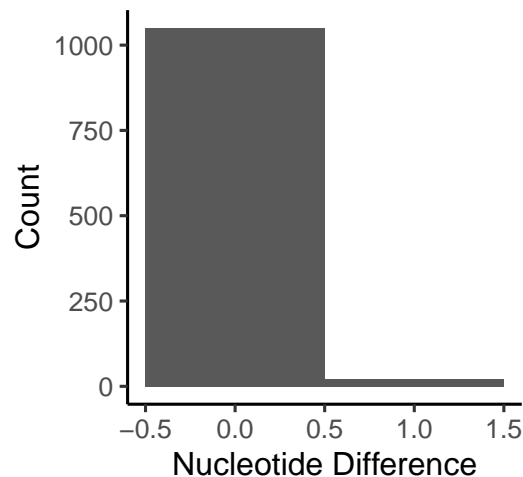
### TRBV14\*ap01

2705 sequences assigned  
2683 (99.2%) exact matches, in which:  
2649 unique CDR3  
13 unique J



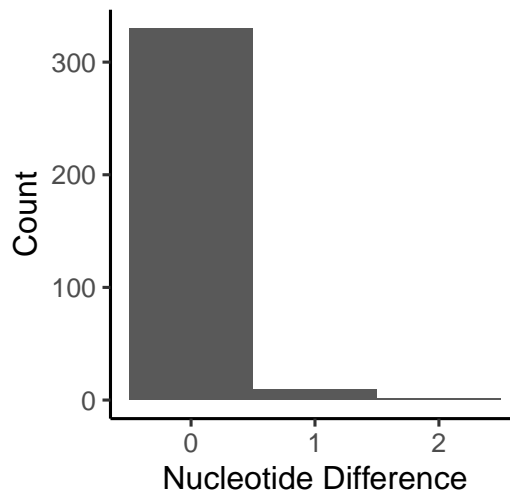
### TRBV20-1\*ap02

1071 sequences assigned  
1050 (98%) exact matches, in which:  
1038 unique CDR3  
13 unique J



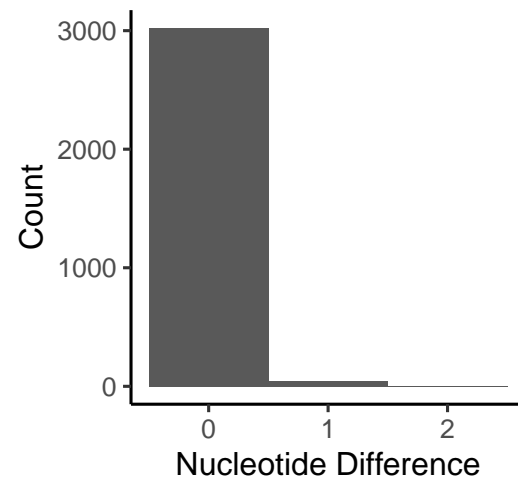
### TRBV1\*ap01

340 sequences assigned  
330 (97.1%) exact matches, in which:  
324 unique CDR3  
13 unique J



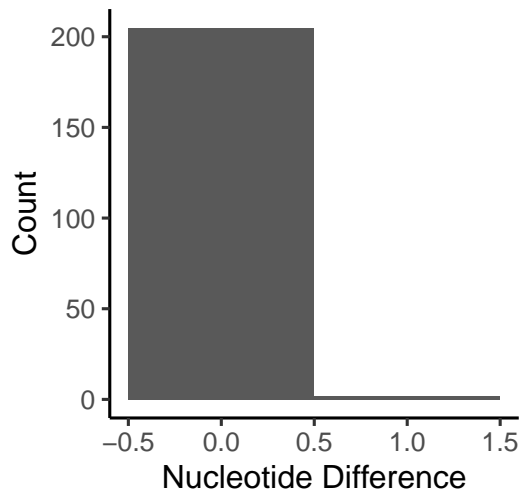
### TRBV15\*ap02

3069 sequences assigned  
3022 (98.5%) exact matches, in which:  
2976 unique CDR3  
13 unique J



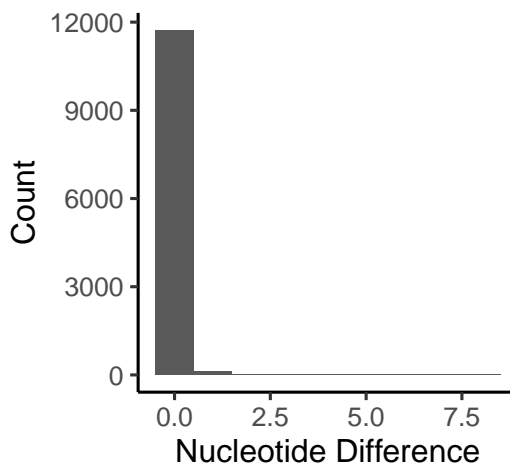
### TRBV16\*ap01

207 sequences assigned  
205 (99%) exact matches, in which:  
201 unique CDR3  
13 unique J



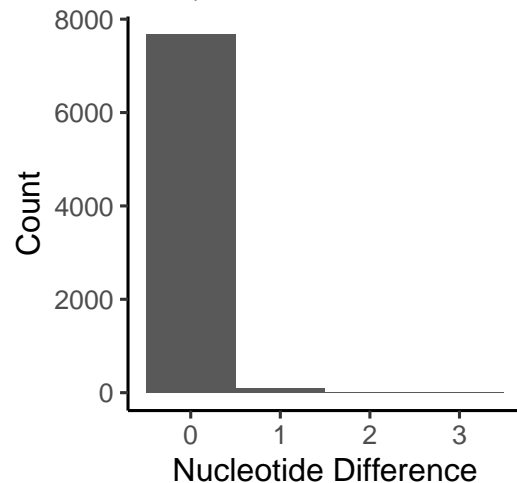
### TRBV19\*ap01

11869 sequences assigned  
11727 (98.8%) exact matches, in which:  
11633 unique CDR3  
13 unique J



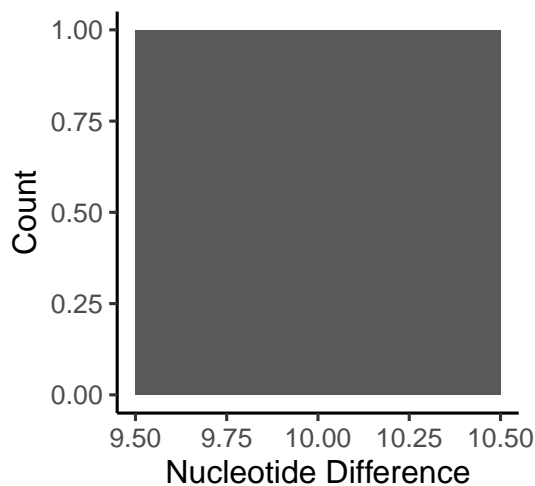
### TRBV28\*ap01

7774 sequences assigned  
7674 (98.7%) exact matches, in which:  
7582 unique CDR3  
13 unique J



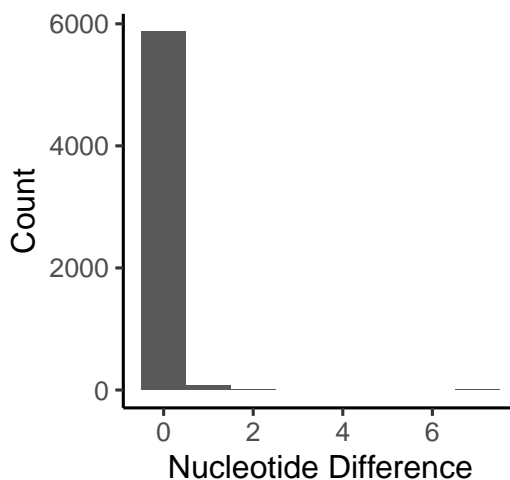
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



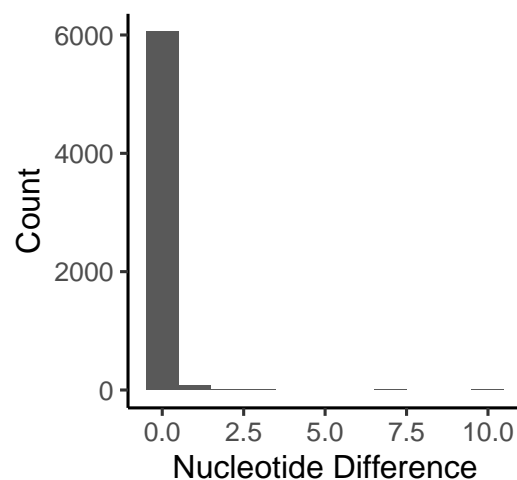
### TRBV2\*ap01

5952 sequences assigned  
5870 (98.6%) exact matches, in which:  
5749 unique CDR3  
13 unique J



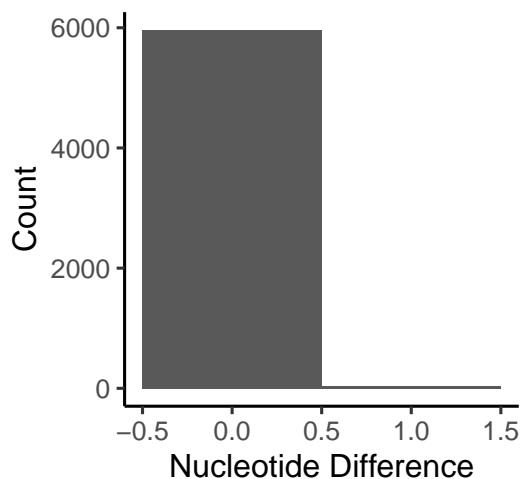
### TRBV28\*ap01\_A297G

6129 sequences assigned  
6055 (98.8%) exact matches, in which:  
6003 unique CDR3  
13 unique J



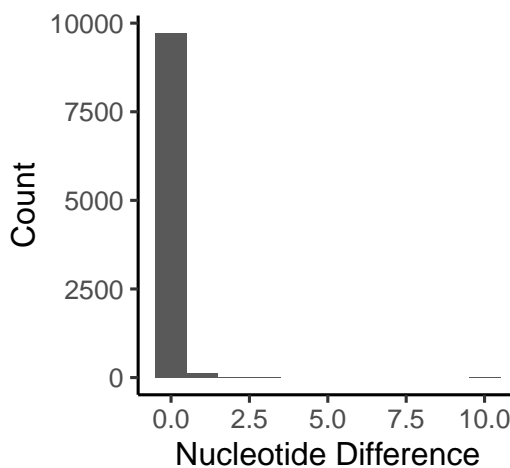
### TRBV18\*ap01

6004 sequences assigned  
5962 (99.3%) exact matches, in which:  
5910 unique CDR3  
13 unique J



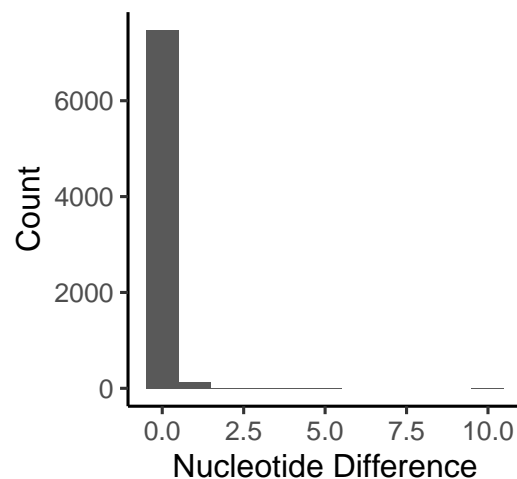
### TRBV27\*ap01

9859 sequences assigned  
9728 (98.7%) exact matches, in which:  
9566 unique CDR3  
13 unique J



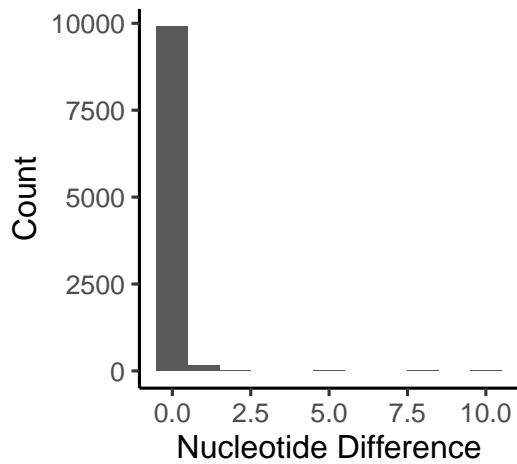
### TRBV30\*ap01

7619 sequences assigned  
7474 (98.1%) exact matches, in which:  
7319 unique CDR3  
13 unique J



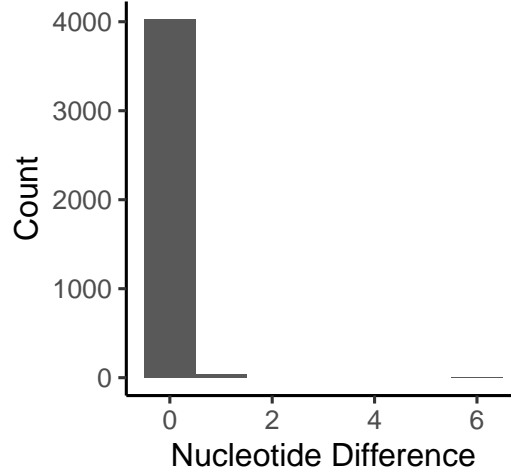
### TRBV9\*ap01

10089 sequences assigned  
9918 (98.3%) exact matches, in which:  
9814 unique CDR3  
13 unique J



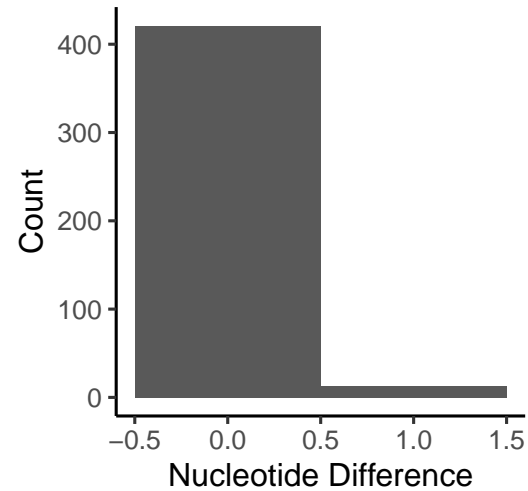
### TRBV11-2\*ap01

4061 sequences assigned  
4026 (99.1%) exact matches, in which:  
3962 unique CDR3  
13 unique J



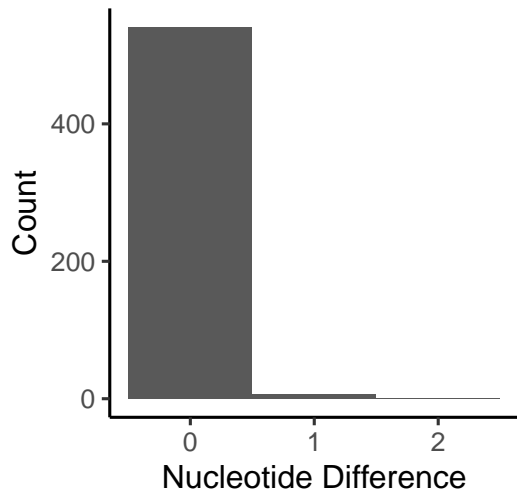
### TRBV12-2\*ap01

434 sequences assigned  
421 (97%) exact matches, in which:  
415 unique CDR3  
13 unique J



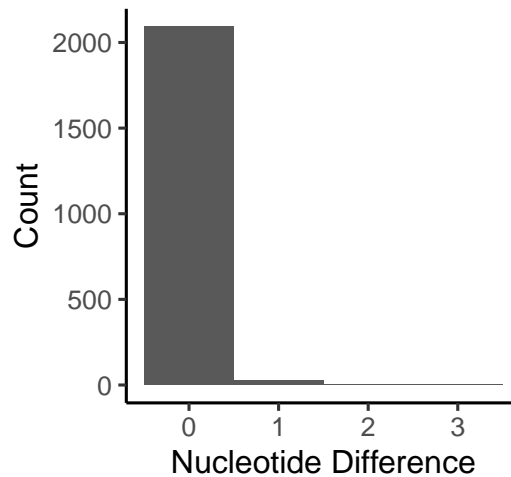
### TRBV11-1\*ap01

549 sequences assigned  
541 (98.5%) exact matches, in which:  
531 unique CDR3  
13 unique J



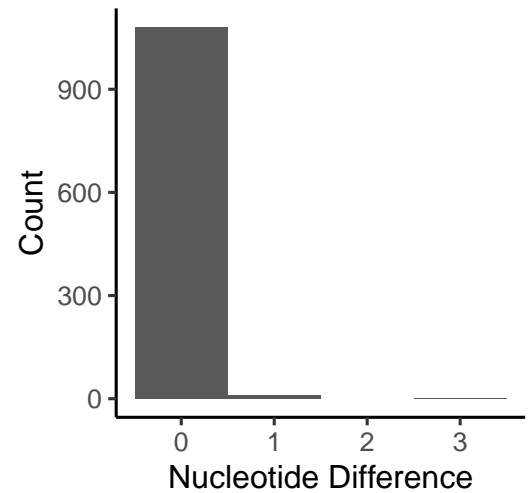
### TRBV11-3\*ap01

2120 sequences assigned  
2092 (98.7%) exact matches, in which:  
2064 unique CDR3  
13 unique J



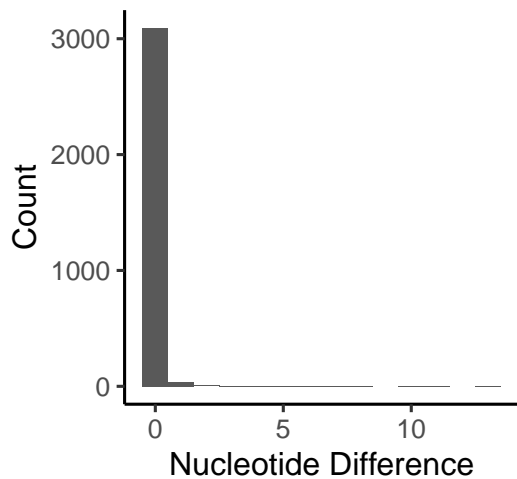
### TRBV12-5\*ap01

1094 sequences assigned  
1081 (98.8%) exact matches, in which:  
1069 unique CDR3  
13 unique J



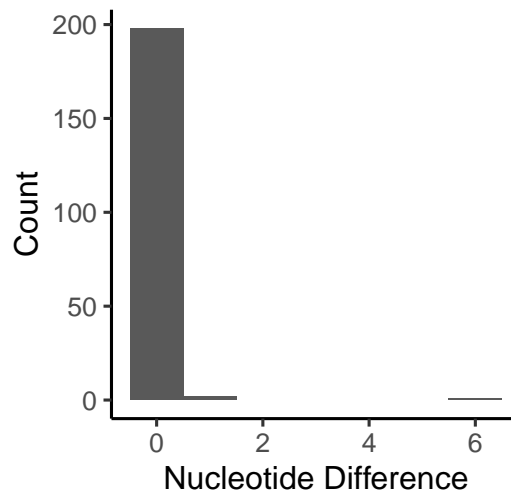
### TRBV21-1\*ap01

3149 sequences assigned  
3092 (98.2%) exact matches, in which:  
3072 unique CDR3  
13 unique J



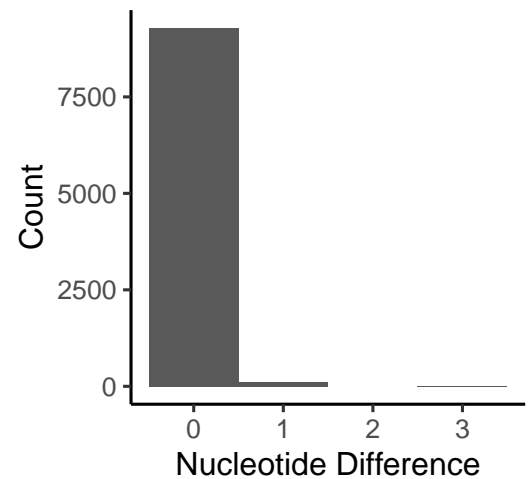
### TRBV12-1\*ap01

201 sequences assigned  
198 (98.5%) exact matches, in which:  
195 unique CDR3  
13 unique J



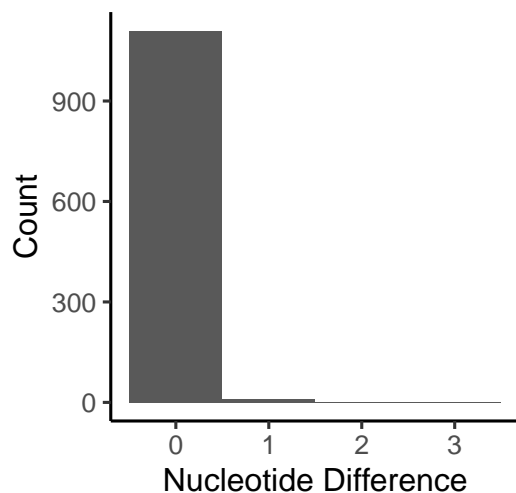
### TRBV12-34\*ap01

9393 sequences assigned  
9284 (98.8%) exact matches, in which:  
9140 unique CDR3  
13 unique J



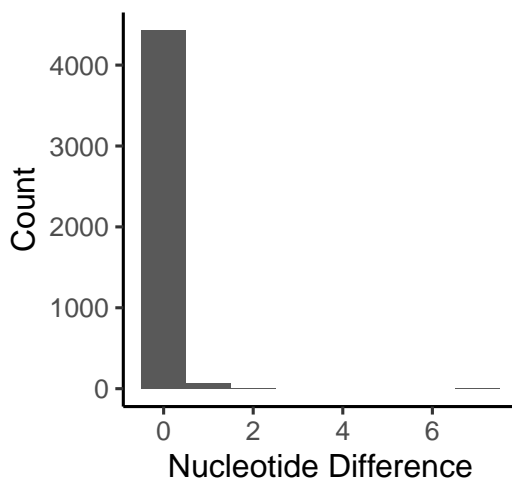
### TRBV23-1\*ap01

1122 sequences assigned  
1110 (98.9%) exact matches, in which:  
1094 unique CDR3  
13 unique J



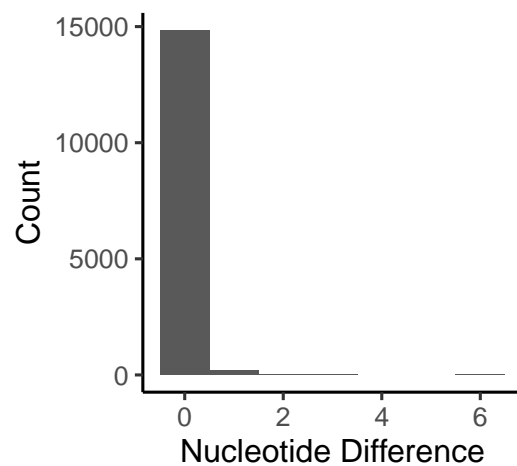
### TRBV4-1\*ap01

4499 sequences assigned  
4429 (98.4%) exact matches, in which:  
4334 unique CDR3  
13 unique J



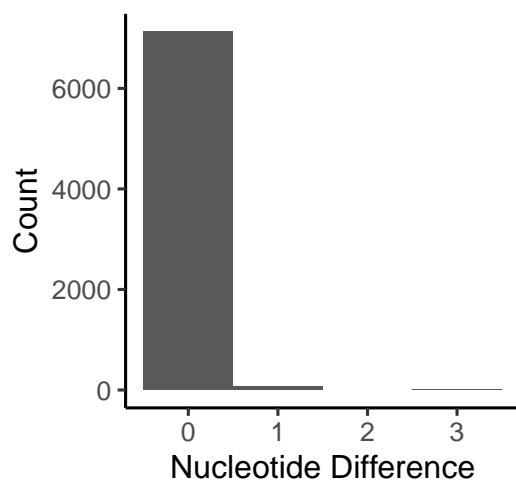
### TRBV5-1\*ap01

15068 sequences assigned  
14847 (98.5%) exact matches, in which:  
14560 unique CDR3  
14 unique J



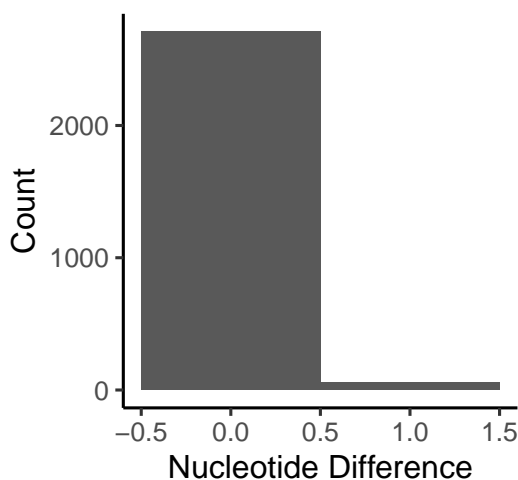
### TRBV3-12\*ap01

7190 sequences assigned  
7127 (99.1%) exact matches, in which:  
7049 unique CDR3  
13 unique J



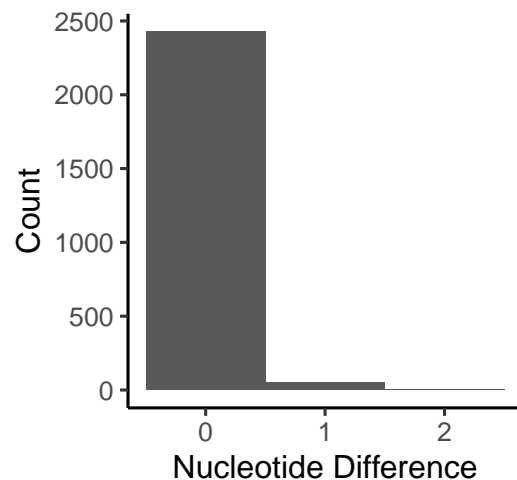
### TRBV4-2\*ap01

2762 sequences assigned  
2709 (98.1%) exact matches, in which:  
2666 unique CDR3  
13 unique J



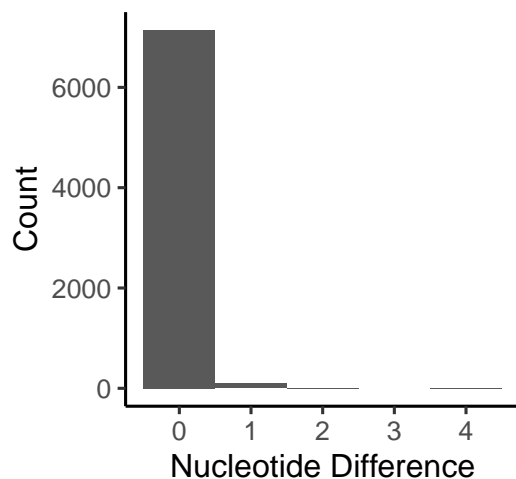
### TRBV25-1\*ap01

2476 sequences assigned  
2427 (98%) exact matches, in which:  
2383 unique CDR3  
13 unique J



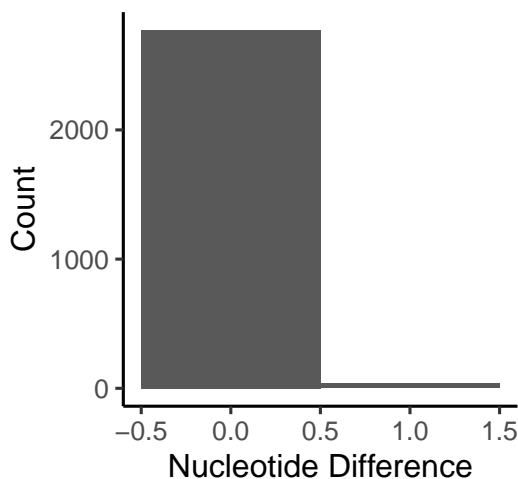
### TRBV24-1\*ap01

7243 sequences assigned  
7143 (98.6%) exact matches, in which:  
7027 unique CDR3  
13 unique J



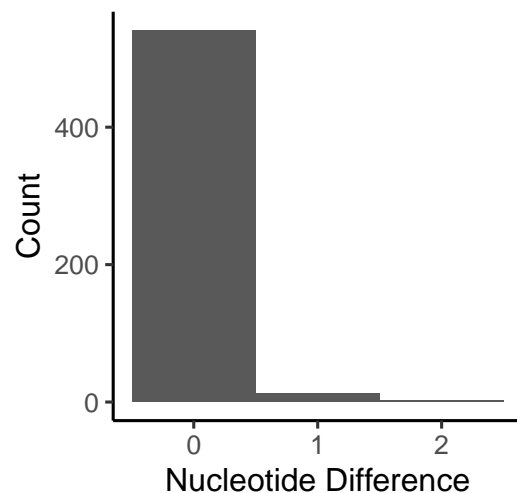
### TRBV4-3\*ap01

2811 sequences assigned  
2773 (98.6%) exact matches, in which:  
2735 unique CDR3  
13 unique J



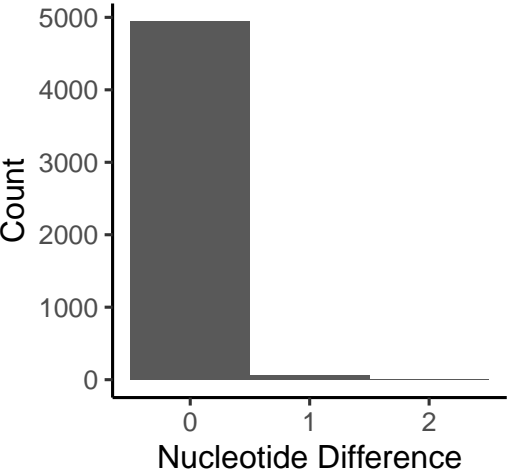
### TRBV5-3\*ap01

555 sequences assigned  
541 (97.5%) exact matches, in which:  
529 unique CDR3  
13 unique J



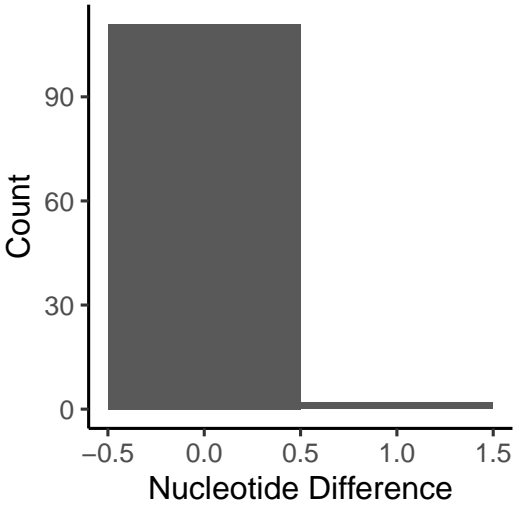
TRBV5-4\*ap01

5001 sequences assigned  
4944 (98.9%) exact matches, in which:  
4850 unique CDR3  
13 unique J



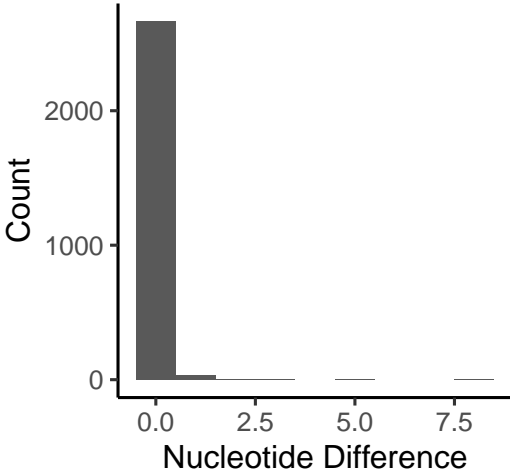
TRBV5-7\*ap01

113 sequences assigned  
111 (98.2%) exact matches, in which:  
107 unique CDR3  
13 unique J



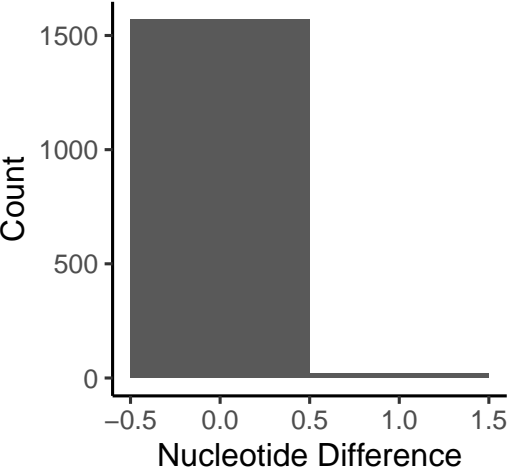
TRBV6-4\*ap01

2705 sequences assigned  
2664 (98.5%) exact matches, in which:  
2640 unique CDR3  
13 unique J



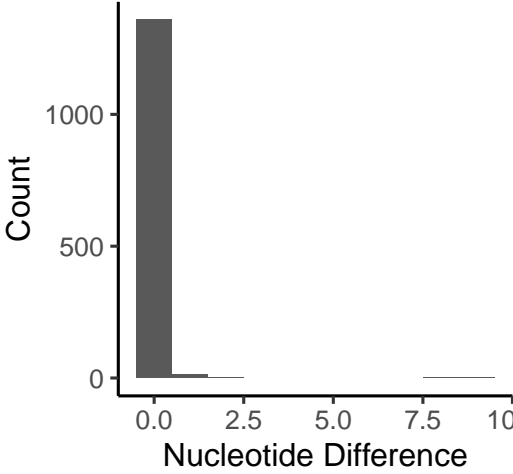
TRBV5-5\*ap01

1587 sequences assigned  
1569 (98.9%) exact matches, in which:  
1562 unique CDR3  
13 unique J



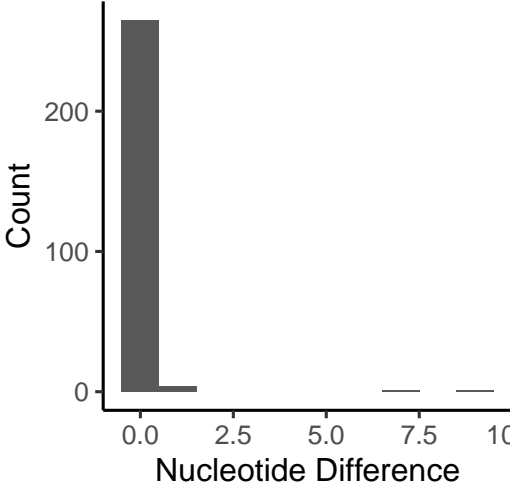
TRBV5-8\*ap01

1377 sequences assigned  
1359 (98.7%) exact matches, in which:  
1336 unique CDR3  
13 unique J



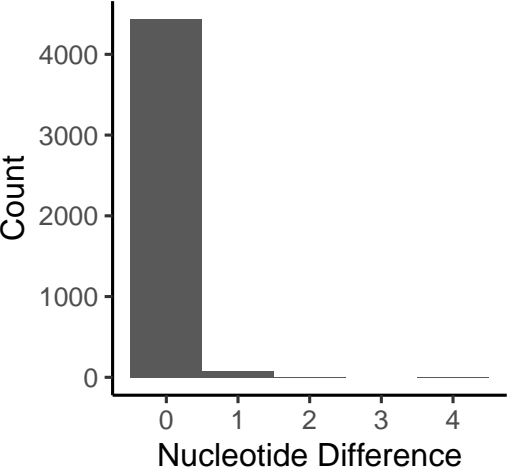
TRBV6-7\*ap01

271 sequences assigned  
265 (97.8%) exact matches, in which:  
262 unique CDR3  
13 unique J



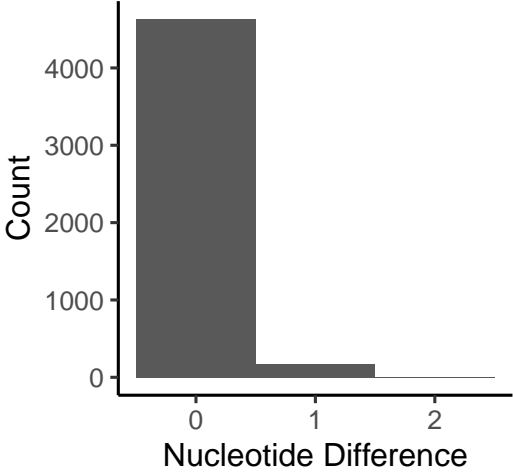
TRBV5-6\*ap01

4519 sequences assigned  
4437 (98.2%) exact matches, in which:  
4346 unique CDR3  
13 unique J



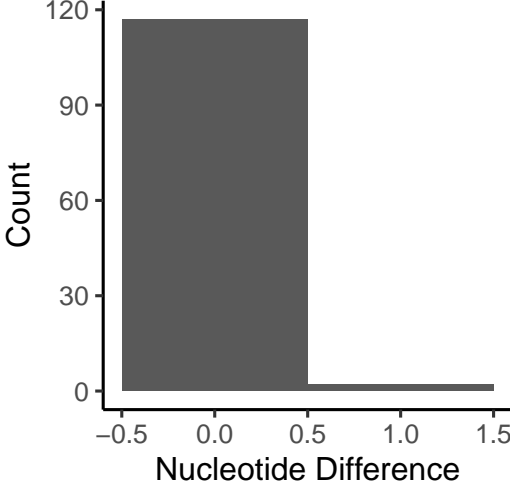
TRBV6-1\*ap01

4808 sequences assigned  
4632 (96.3%) exact matches, in which:  
4525 unique CDR3  
13 unique J



TRBV6-8\*ap01

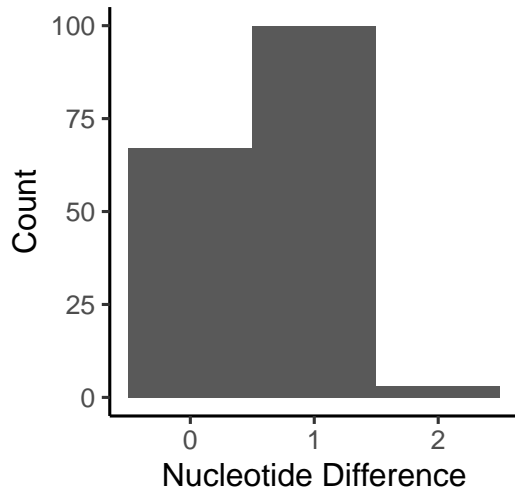
119 sequences assigned  
117 (98.3%) exact matches, in which:  
112 unique CDR3  
13 unique J





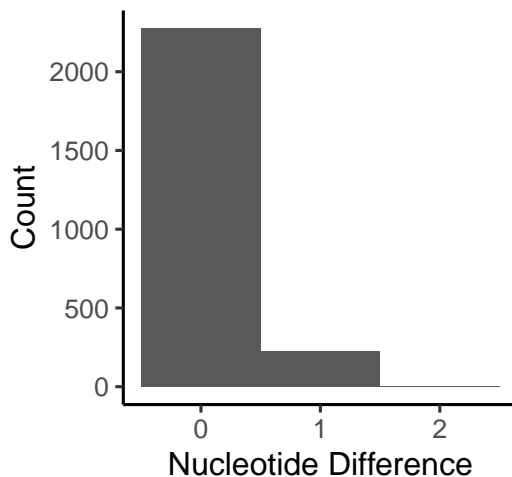
### TRBV6-9\*ap01

170 sequences assigned  
67 (39.4%) exact matches, in which:  
65 unique CDR3  
12 unique J



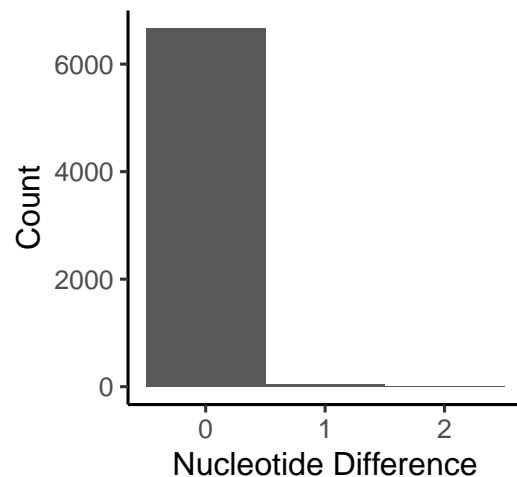
### TRBV6-56\*ap02

2504 sequences assigned  
2275 (90.9%) exact matches, in which:  
2230 unique CDR3  
13 unique J



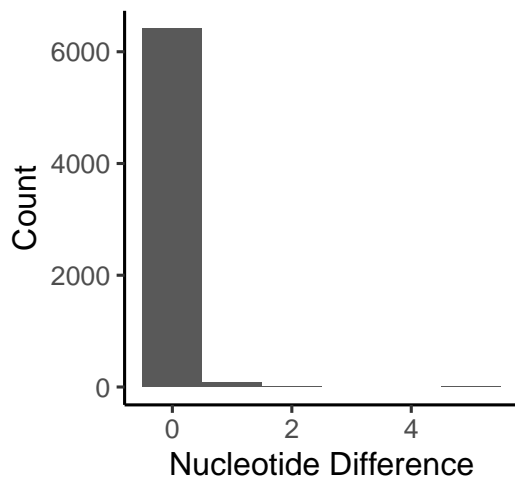
### TRBV7-2\*ap01

6714 sequences assigned  
6664 (99.3%) exact matches, in which:  
6582 unique CDR3  
13 unique J



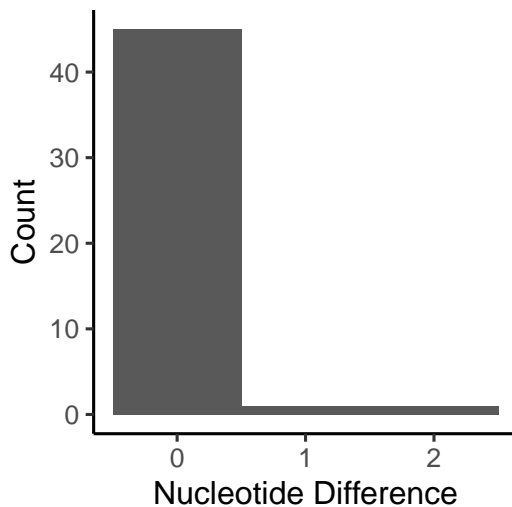
### TRBV6-23\*ap01

6497 sequences assigned  
6412 (98.7%) exact matches, in which:  
6240 unique CDR3  
13 unique J



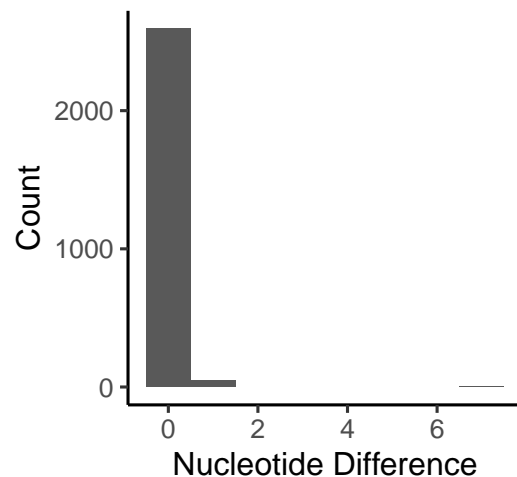
### TRBV7-1\*ap01\_G291C\_T

47 sequences assigned  
45 (95.7%) exact matches, in which:  
45 unique CDR3  
12 unique J



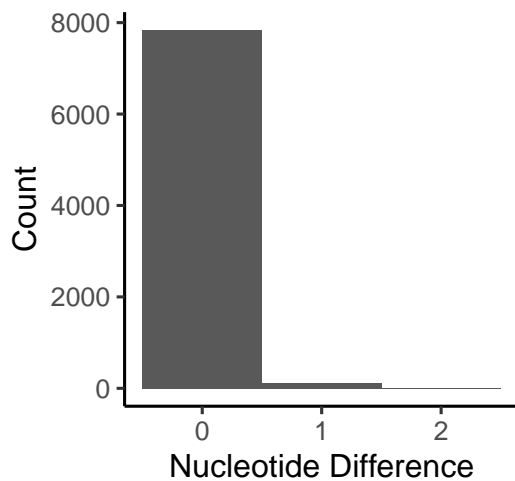
### TRBV7-3\*ap01

2638 sequences assigned  
2593 (98.3%) exact matches, in which:  
2569 unique CDR3  
13 unique J



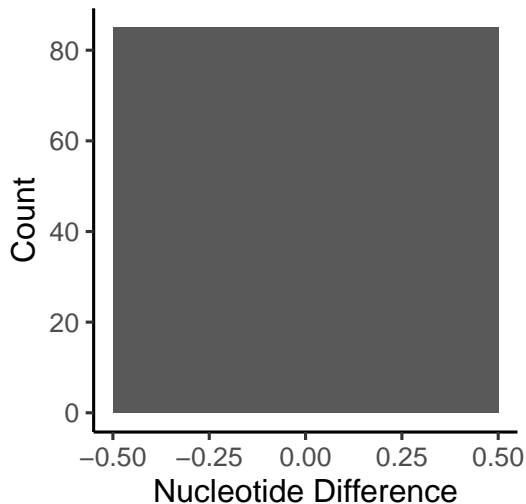
### TRBV6-56\*ap01

7958 sequences assigned  
7838 (98.5%) exact matches, in which:  
7641 unique CDR3  
13 unique J



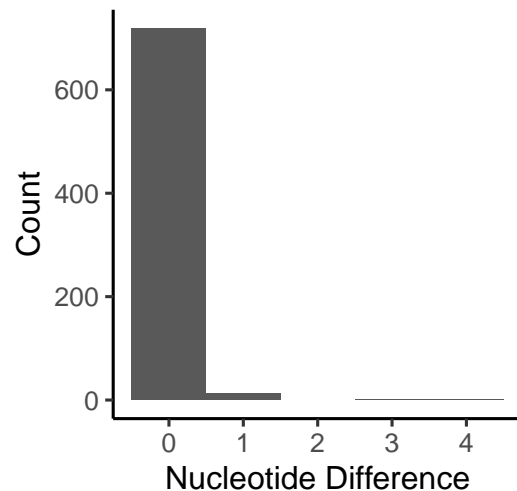
### TRBV7-1\*ap01\_G291C\_T

85 sequences assigned  
85 (100%) exact matches, in which:  
85 unique CDR3  
13 unique J



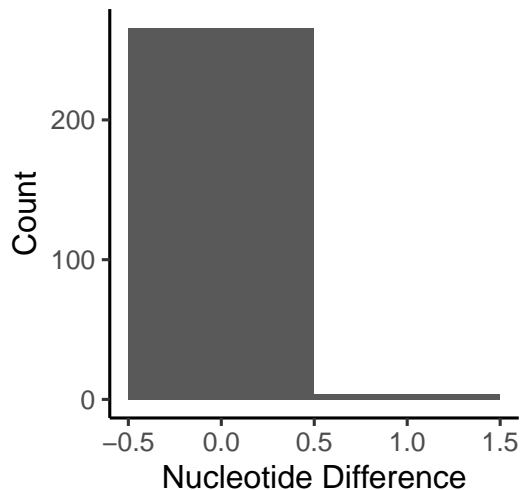
### TRBV7-3\*ap02

733 sequences assigned  
719 (98.1%) exact matches, in which:  
709 unique CDR3  
13 unique J



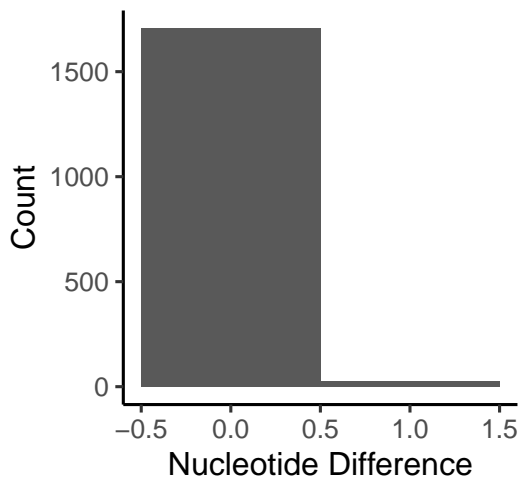
### TRBV7-4\*ap01

270 sequences assigned  
266 (98.5%) exact matches, in which:  
262 unique CDR3  
13 unique J



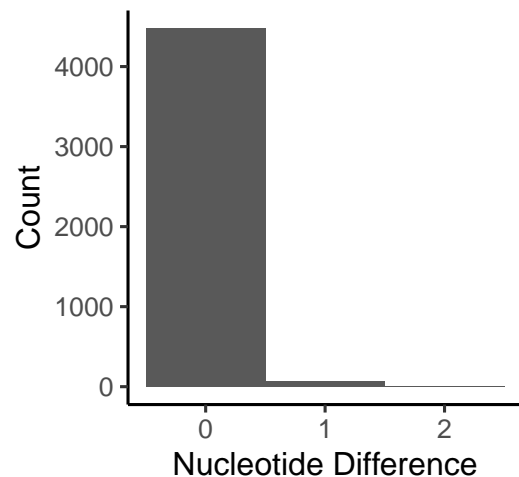
### TRBV7-8\*ap01

1731 sequences assigned  
1706 (98.6%) exact matches, in which:  
1685 unique CDR3  
13 unique J



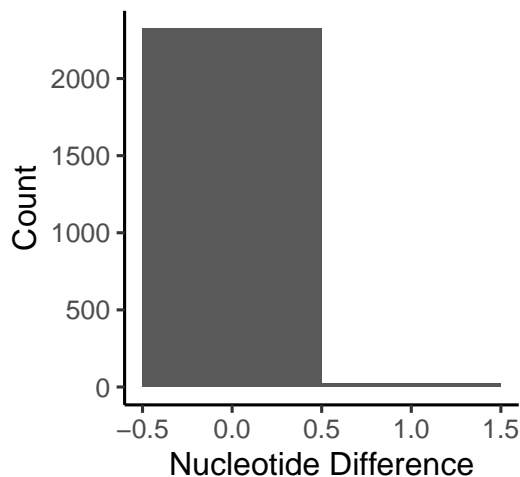
### TRBV29-1\*ap01

4556 sequences assigned  
4477 (98.3%) exact matches, in which:  
4378 unique CDR3  
13 unique J



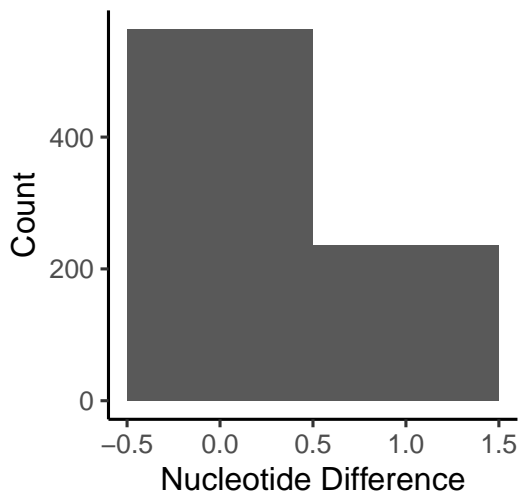
### TRBV7-6\*ap01

2343 sequences assigned  
2323 (99.1%) exact matches, in which:  
2286 unique CDR3  
13 unique J



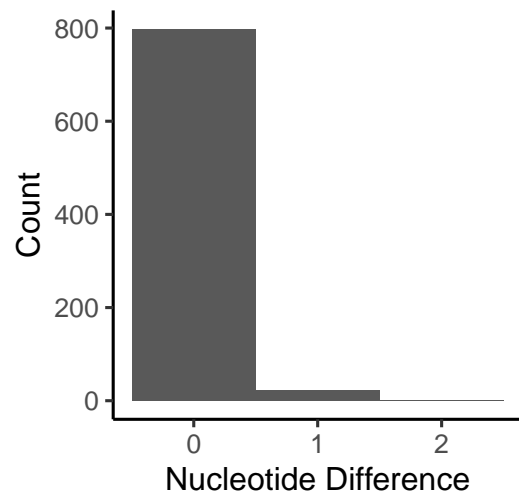
### TRBV7-8\*ap03

800 sequences assigned  
564 (70.5%) exact matches, in which:  
553 unique CDR3  
13 unique J



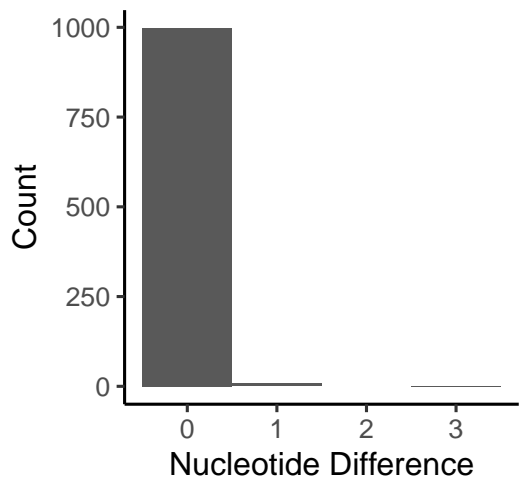
### TRBV29-1\*ap02

823 sequences assigned  
798 (97%) exact matches, in which:  
785 unique CDR3  
14 unique J



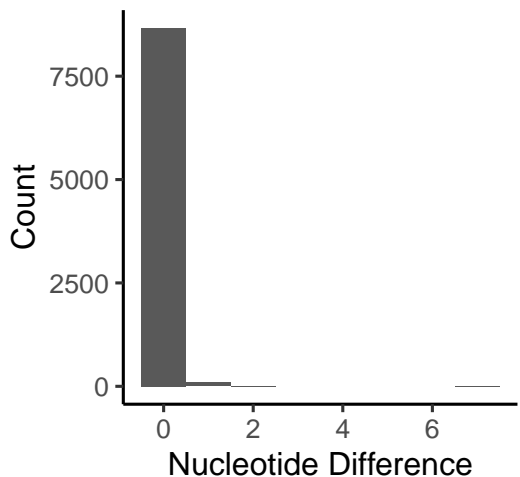
### TRBV7-7\*ap01

1007 sequences assigned  
998 (99.1%) exact matches, in which:  
985 unique CDR3  
13 unique J

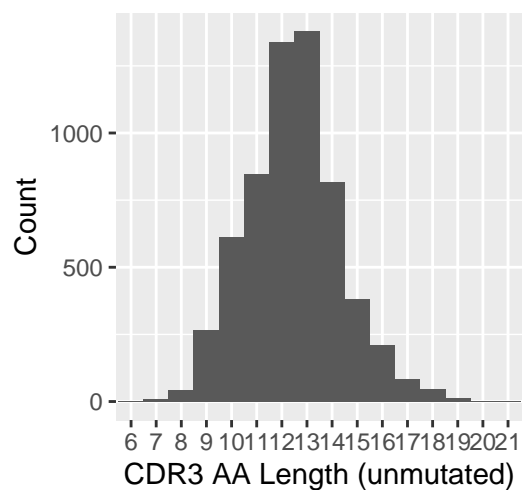


### TRBV7-9\*ap01

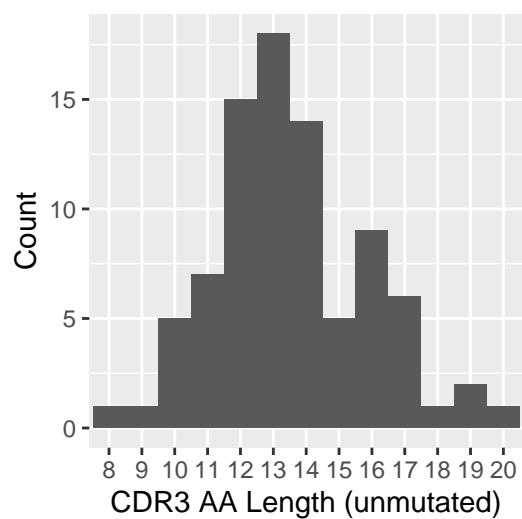
8762 sequences assigned  
8664 (98.9%) exact matches, in which:  
8507 unique CDR3  
13 unique J



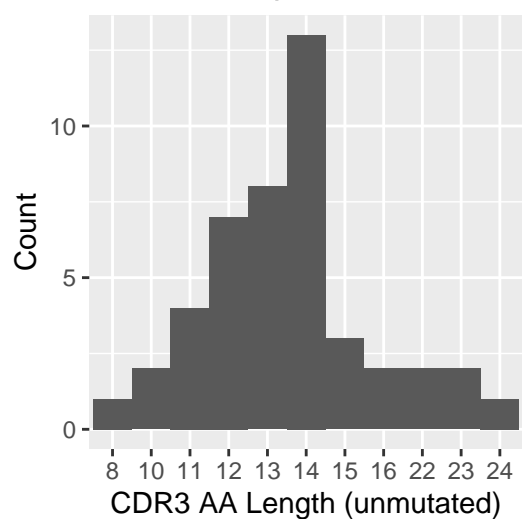
TRBV28\*ap01\_A297G



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



TRBV7-1\*ap01\_G291C\_T296C





Warning – no inferred sequences found.

Warning – no inferred sequences found.