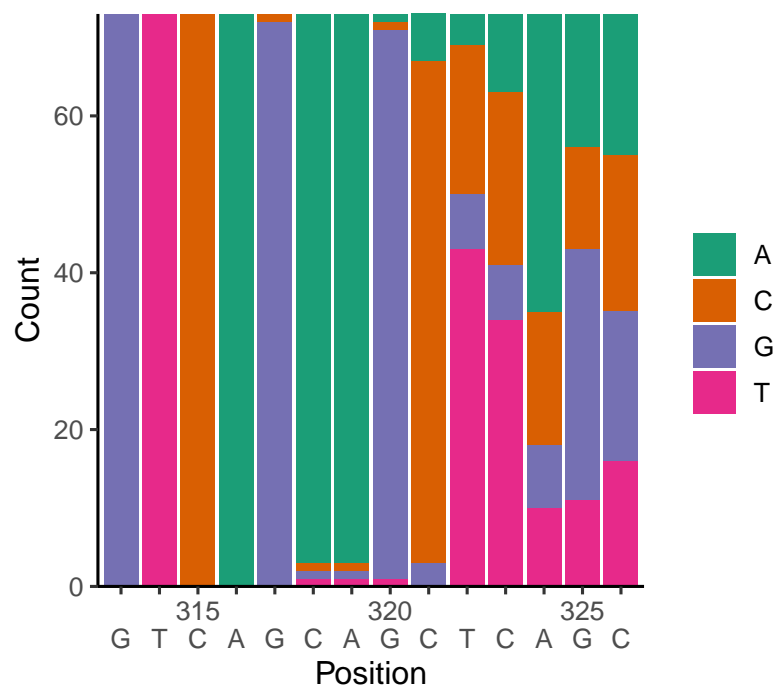
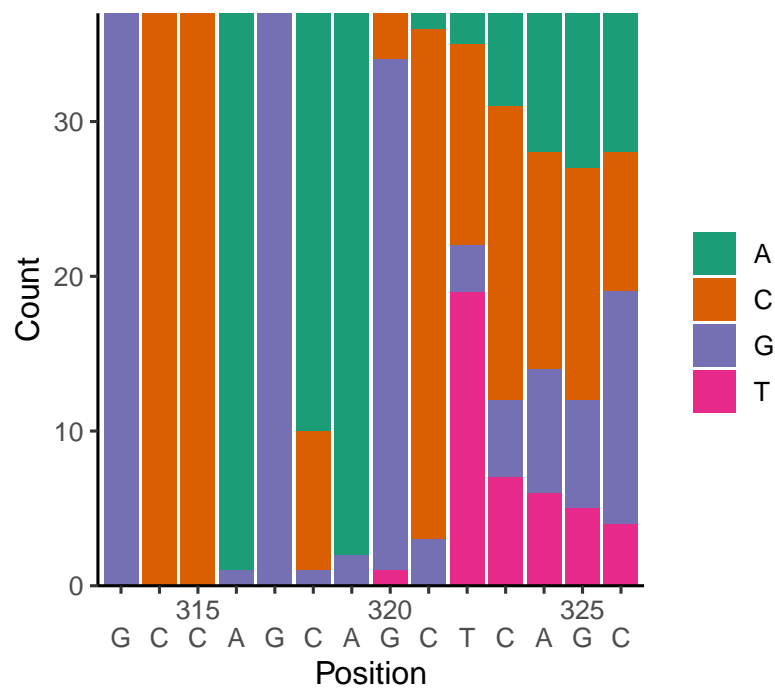


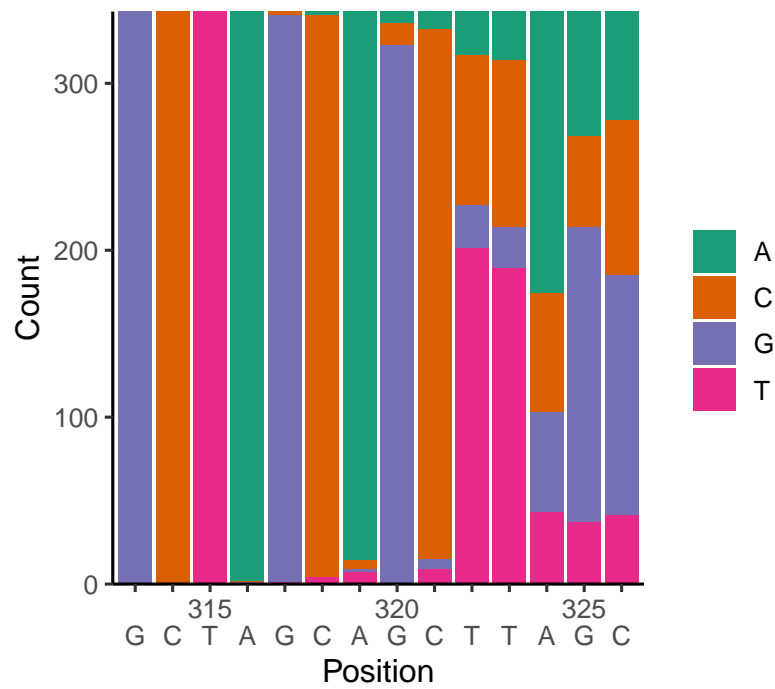
Gene TRBV7-1\*ap01\_T296C\_C314T



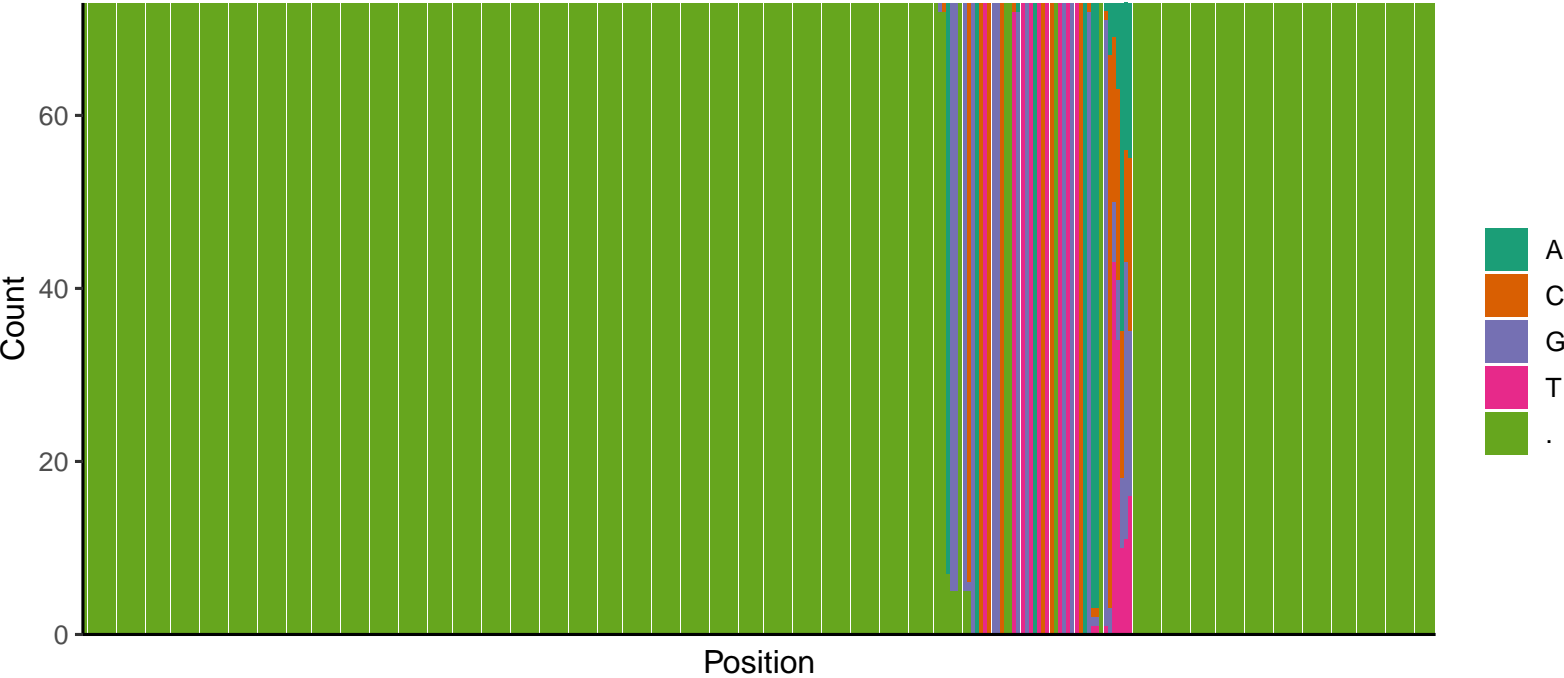
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_T296C\_C314T



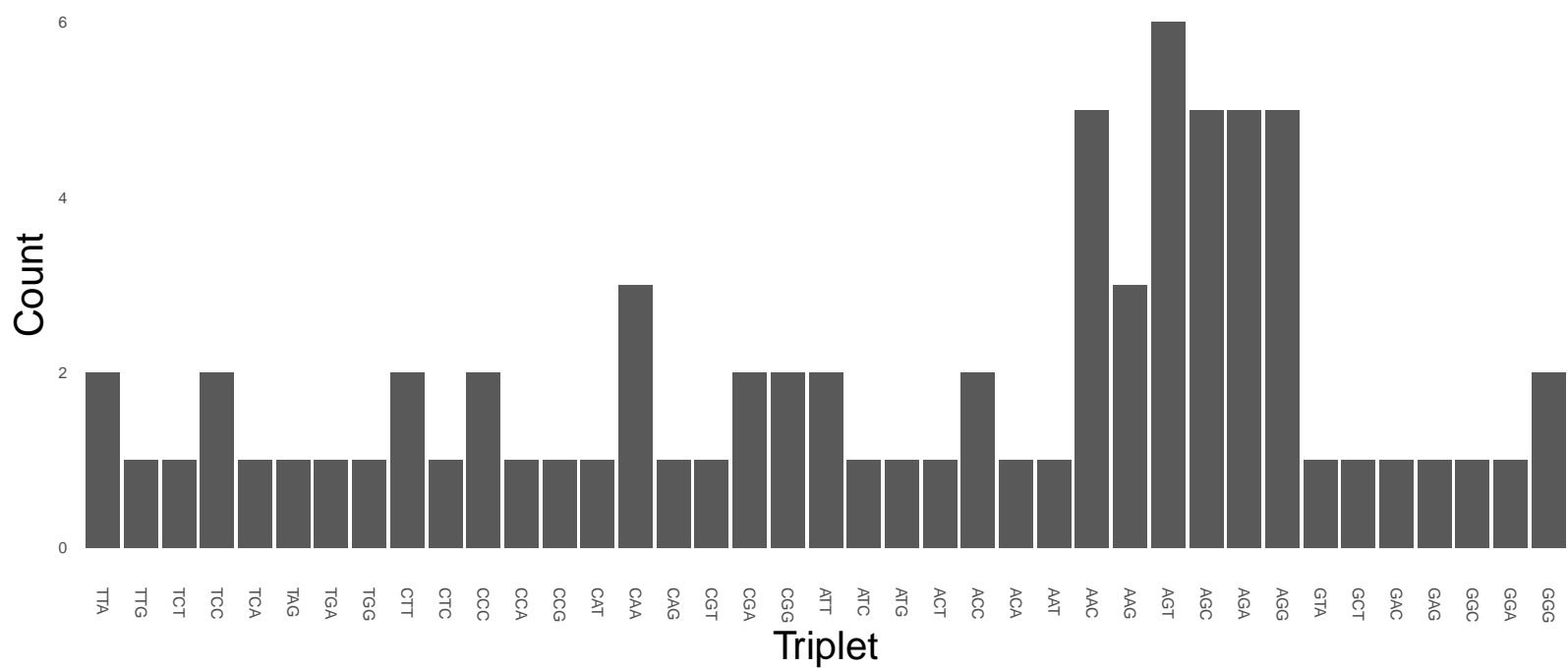
Gene TRBV7-1\*ap01\_T296C



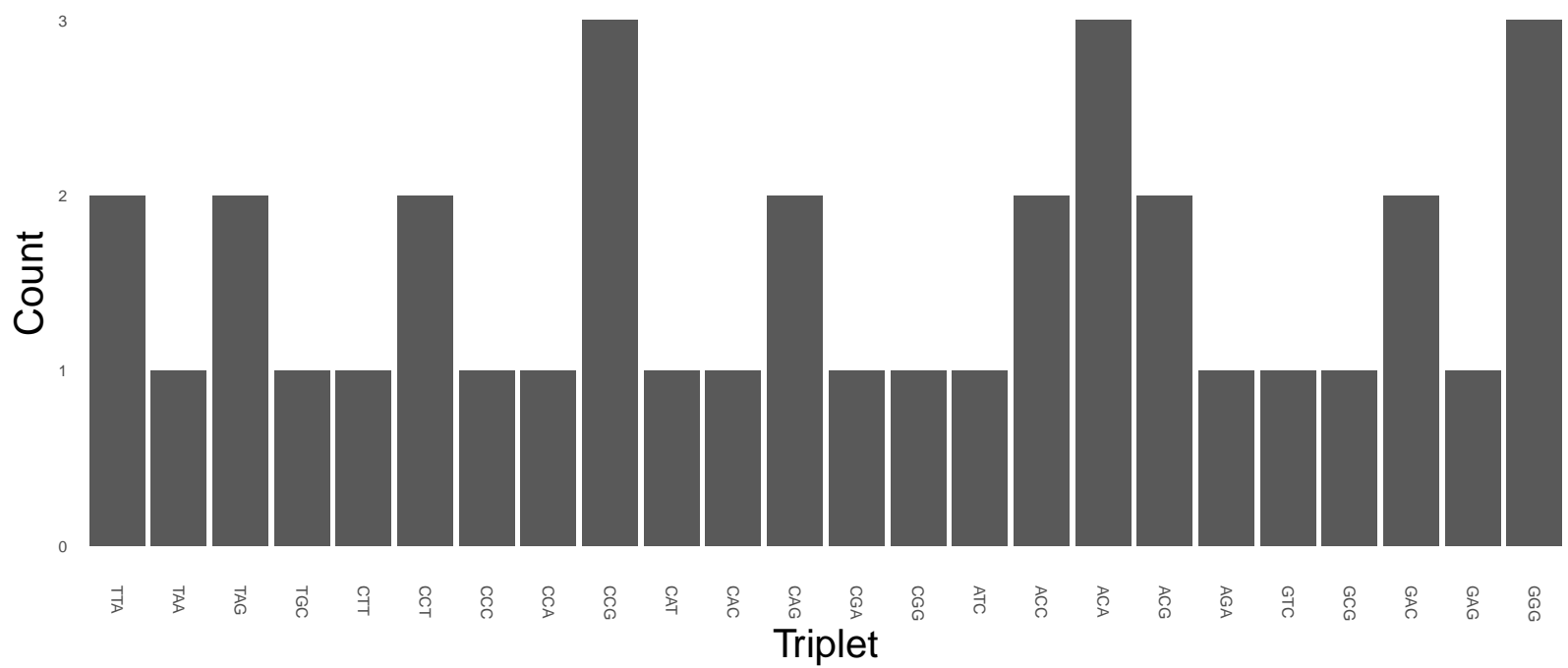
Gene TRBV7-7\*ap01\_C315T



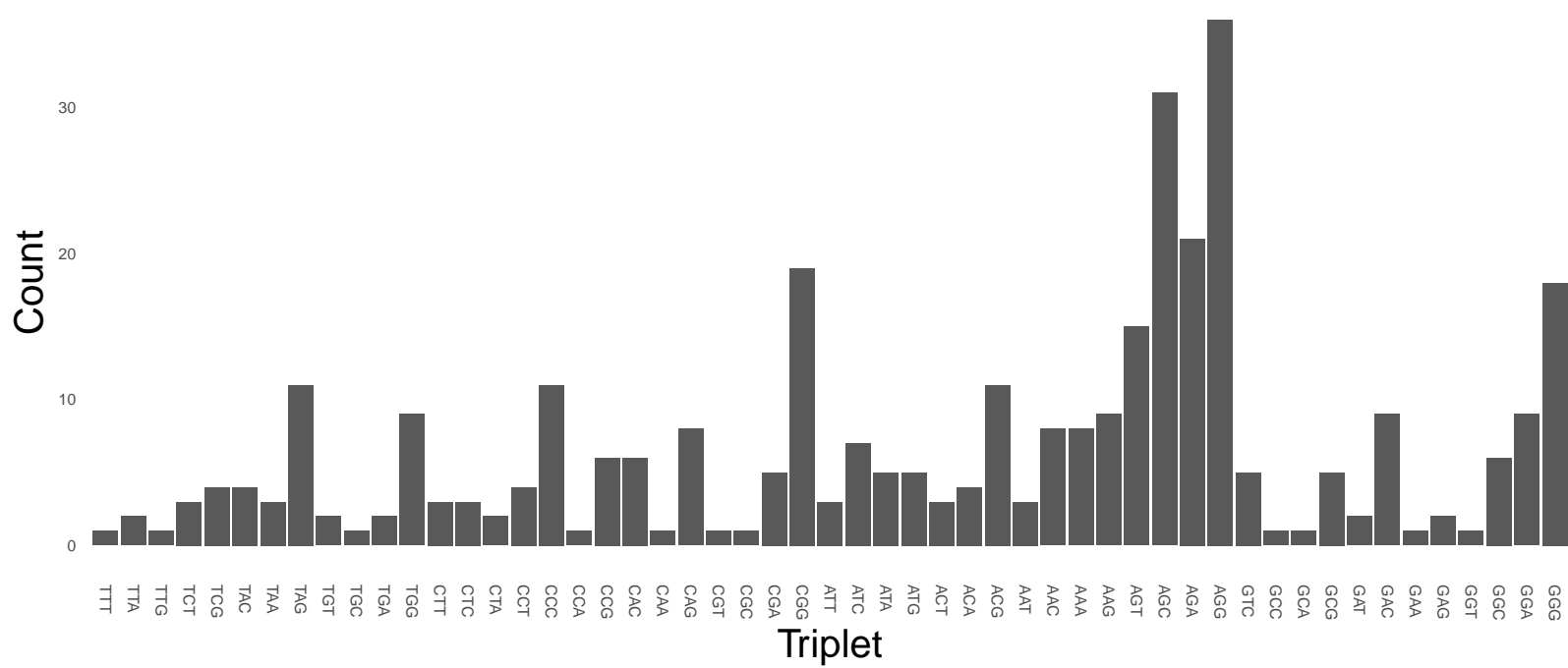
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

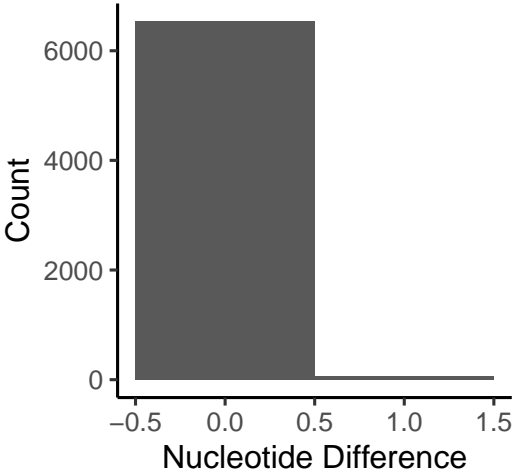


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



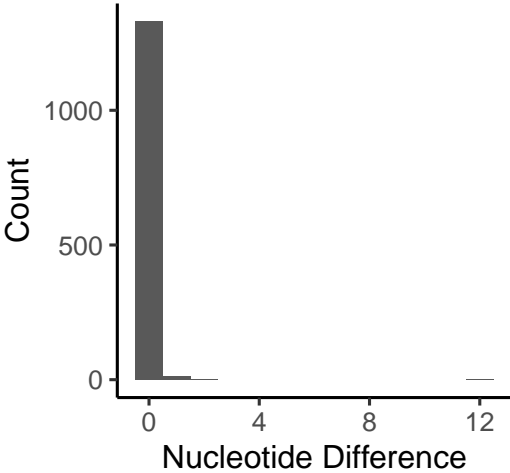
TRBV20-1\*ap01

6605 sequences assigned  
6535 (98.9%) exact matches, in which:  
6436 unique CDR3  
13 unique J



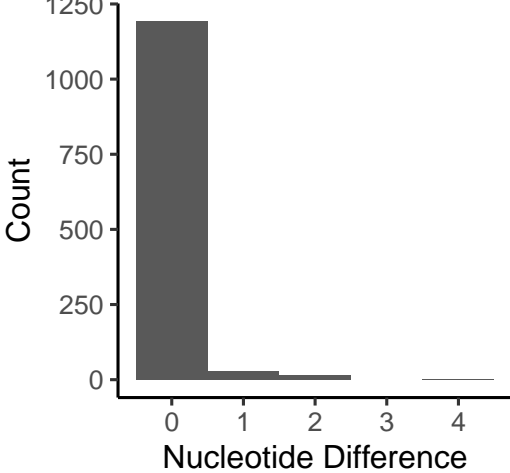
TRBV10-2\*ap01

1345 sequences assigned  
1330 (98.9%) exact matches, in which:  
1305 unique CDR3  
13 unique J



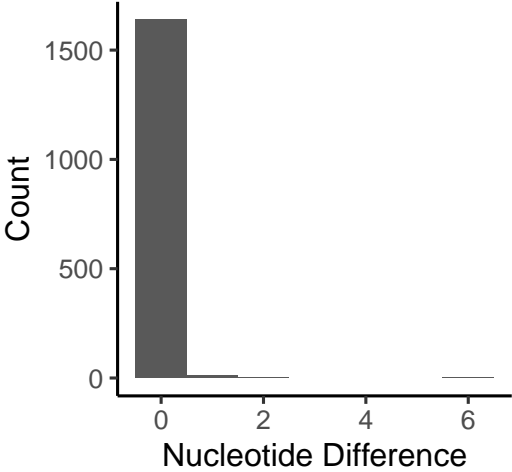
TRBV13\*ap01

1236 sequences assigned  
1192 (96.4%) exact matches, in which:  
1166 unique CDR3  
13 unique J



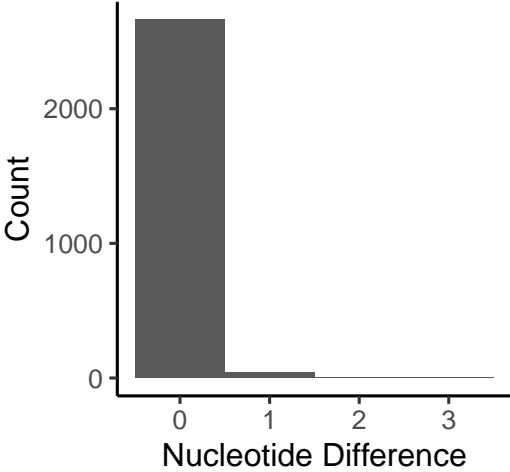
TRBV10-1\*ap01

1652 sequences assigned  
1639 (99.2%) exact matches, in which:  
1605 unique CDR3  
13 unique J



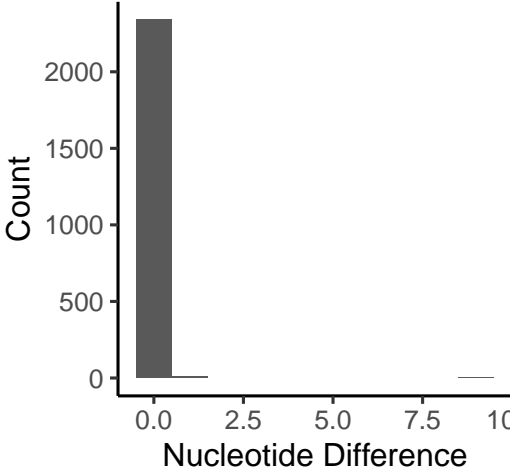
TRBV10-3\*ap01

2702 sequences assigned  
2661 (98.5%) exact matches, in which:  
2595 unique CDR3  
13 unique J



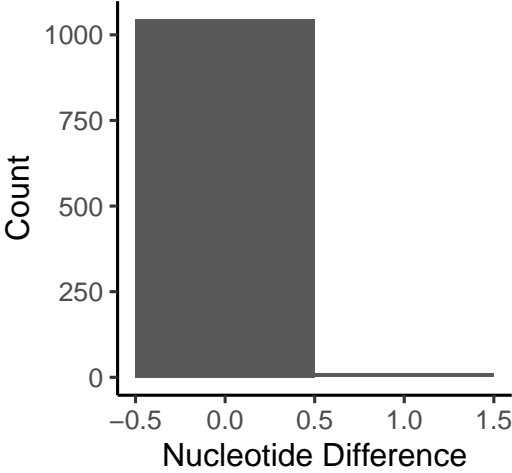
TRBV14\*ap01

2353 sequences assigned  
2340 (99.4%) exact matches, in which:  
2315 unique CDR3  
13 unique J



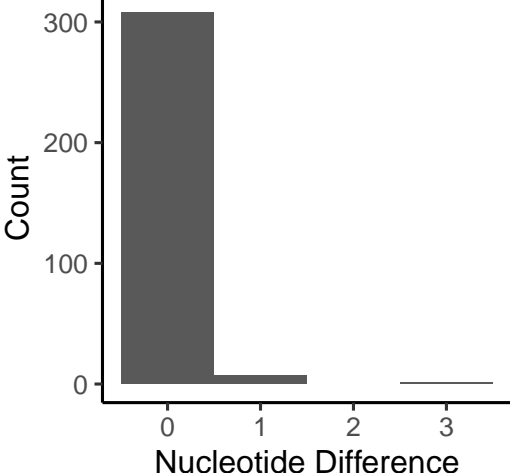
TRBV20-1\*ap02

1057 sequences assigned  
1046 (99%) exact matches, in which:  
1027 unique CDR3  
13 unique J



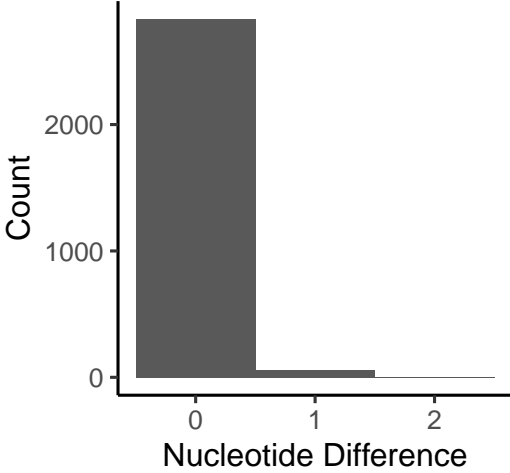
TRBV1\*ap01

316 sequences assigned  
308 (97.5%) exact matches, in which:  
300 unique CDR3  
13 unique J



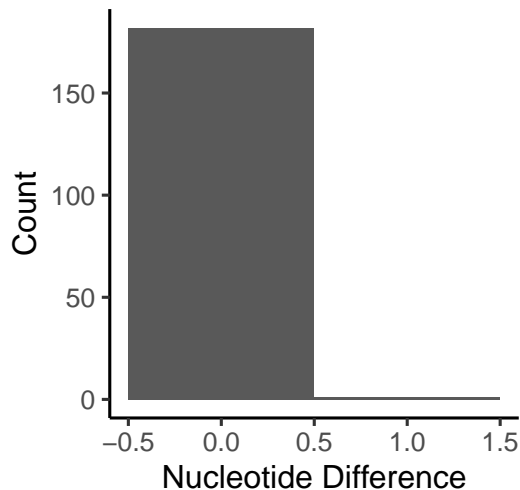
TRBV15\*ap02

2895 sequences assigned  
2835 (97.9%) exact matches, in which:  
2770 unique CDR3  
13 unique J



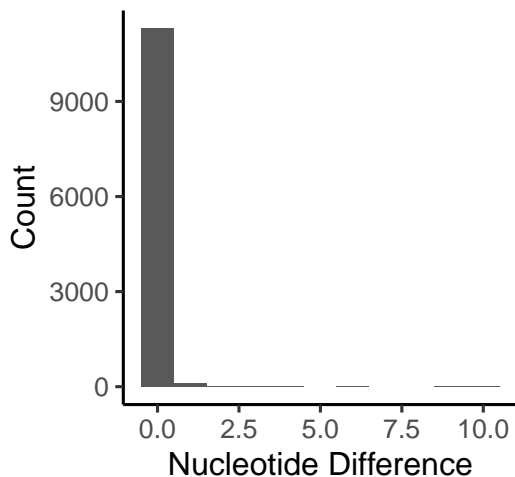
### TRBV16\*ap01

183 sequences assigned  
182 (99.5%) exact matches, in which:  
181 unique CDR3  
13 unique J



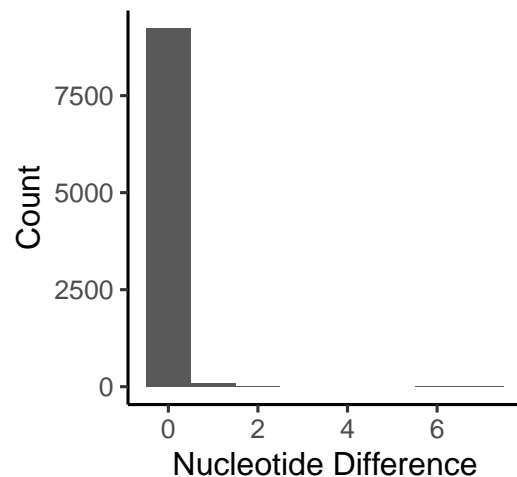
### TRBV19\*ap01

11431 sequences assigned  
11304 (98.9%) exact matches, in which:  
11177 unique CDR3  
13 unique J



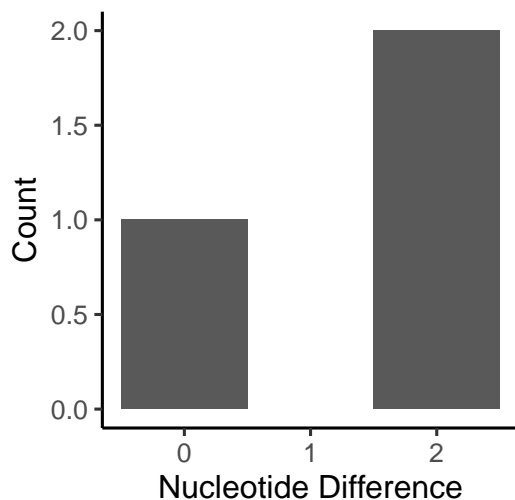
### TRBV28\*ap01

9344 sequences assigned  
9233 (98.8%) exact matches, in which:  
9089 unique CDR3  
13 unique J



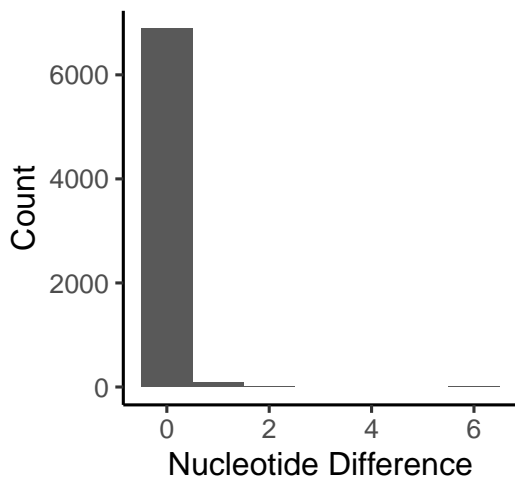
### TRBV17\*ap01

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



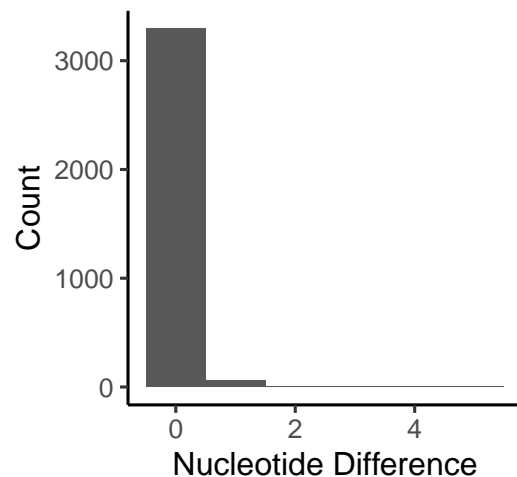
### TRBV2\*ap01

6971 sequences assigned  
6886 (98.8%) exact matches, in which:  
6733 unique CDR3  
13 unique J



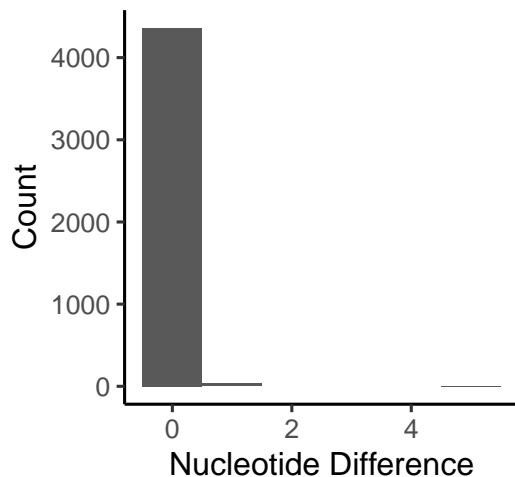
### TRBV30\*ap01

3362 sequences assigned  
3294 (98%) exact matches, in which:  
3223 unique CDR3  
13 unique J



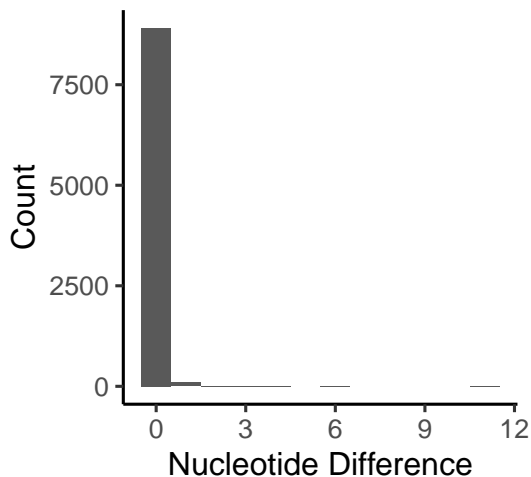
### TRBV18\*ap01

4397 sequences assigned  
4360 (99.2%) exact matches, in which:  
4324 unique CDR3  
13 unique J



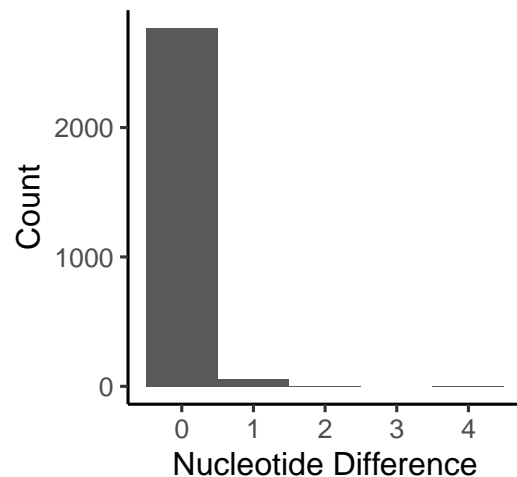
### TRBV27\*ap01

9013 sequences assigned  
8909 (98.8%) exact matches, in which:  
8717 unique CDR3  
13 unique J



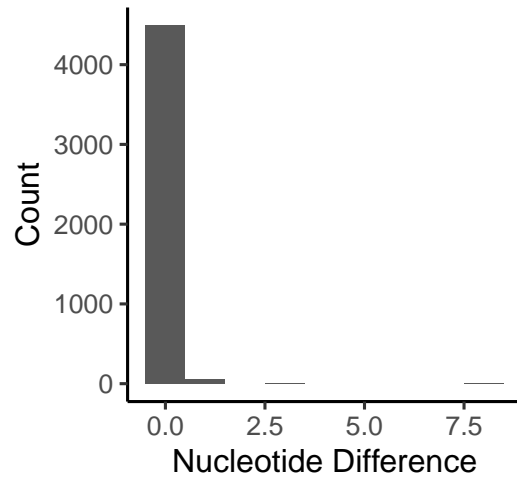
### TRBV30\*ap02

2830 sequences assigned  
2769 (97.8%) exact matches, in which:  
2685 unique CDR3  
13 unique J



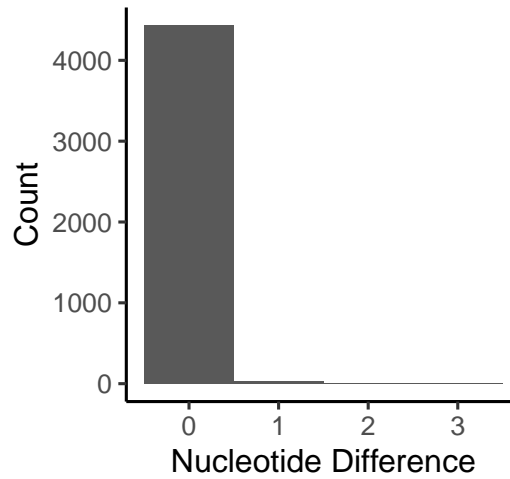
### TRBV9\*ap01

4551 sequences assigned  
4492 (98.7%) exact matches, in which:  
4443 unique CDR3  
13 unique J



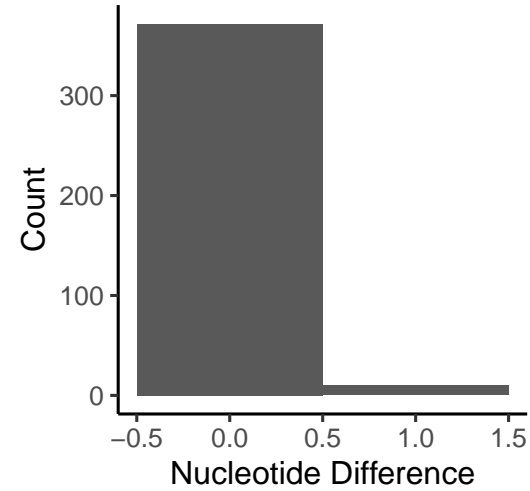
### TRBV11-2\*ap01

4466 sequences assigned  
4432 (99.2%) exact matches, in which:  
4348 unique CDR3  
13 unique J



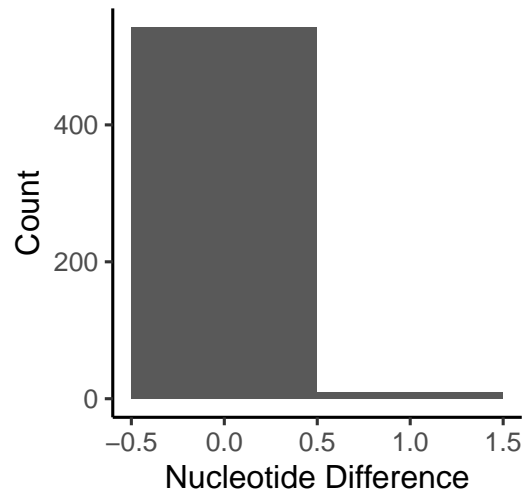
### TRBV12-2\*ap01

382 sequences assigned  
372 (97.4%) exact matches, in which:  
362 unique CDR3  
13 unique J



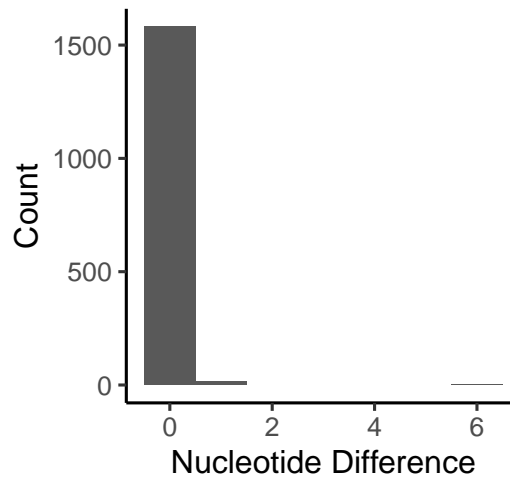
### TRBV11-1\*ap01

552 sequences assigned  
543 (98.4%) exact matches, in which:  
539 unique CDR3  
13 unique J



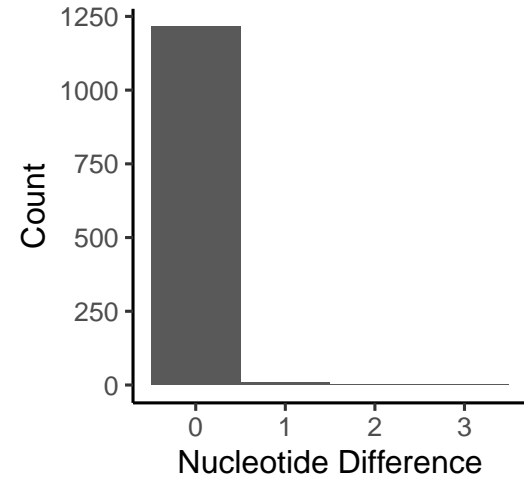
### TRBV11-3\*ap01

1597 sequences assigned  
1581 (99%) exact matches, in which:  
1562 unique CDR3  
13 unique J



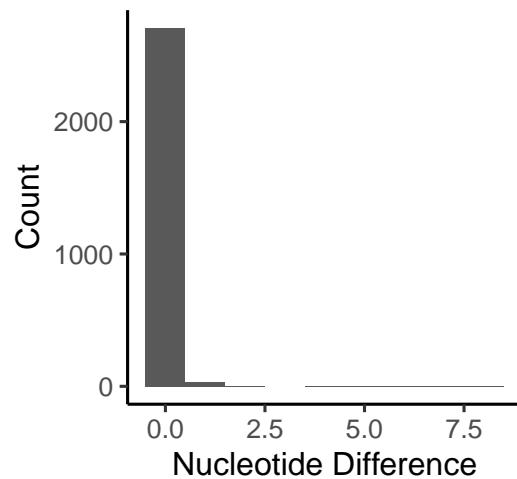
### TRBV12-5\*ap01

1227 sequences assigned  
1215 (99%) exact matches, in which:  
1194 unique CDR3  
13 unique J



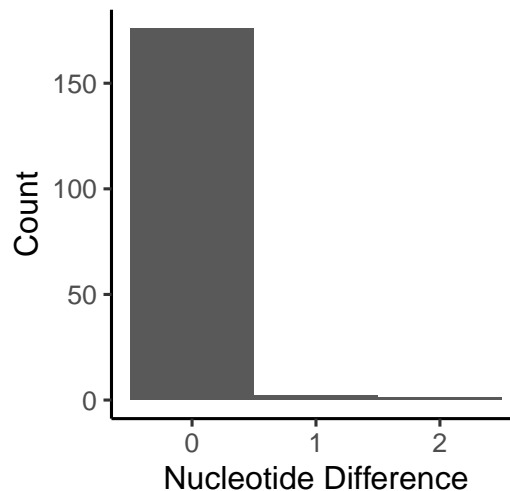
### TRBV21-1\*ap01

2751 sequences assigned  
2707 (98.4%) exact matches, in which:  
2675 unique CDR3  
13 unique J



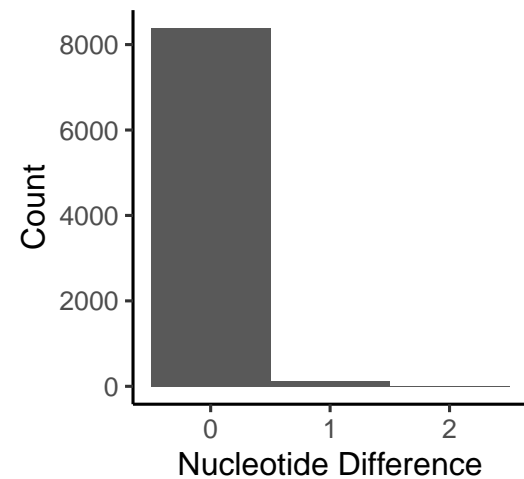
### TRBV12-1\*ap01

179 sequences assigned  
176 (98.3%) exact matches, in which:  
173 unique CDR3  
13 unique J



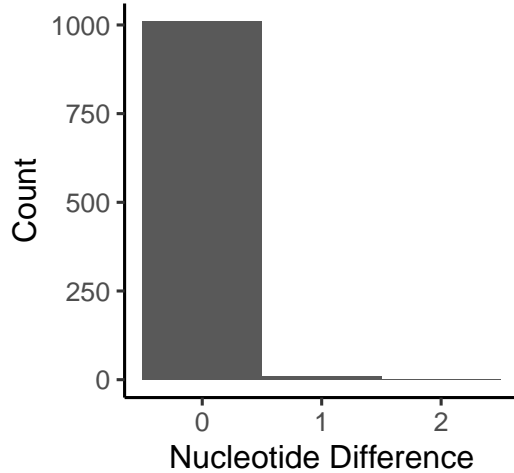
### TRBV12-34\*ap01

8507 sequences assigned  
8387 (98.6%) exact matches, in which:  
8228 unique CDR3  
13 unique J



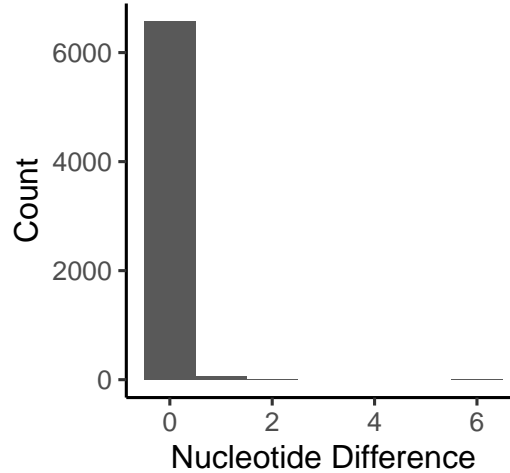
### TRBV23-1\*ap01

1020 sequences assigned  
1010 (99%) exact matches, in which:  
995 unique CDR3  
14 unique J



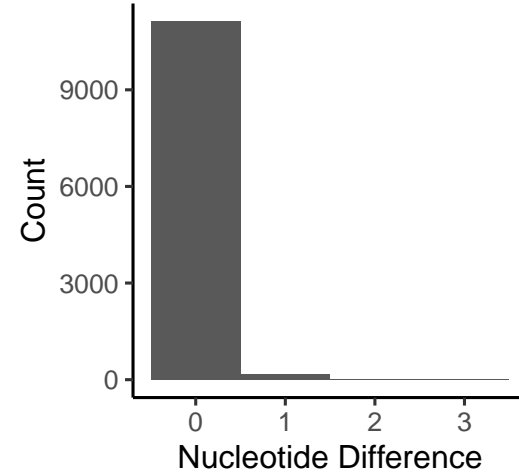
### TRBV4-1\*ap01

6642 sequences assigned  
6572 (98.9%) exact matches, in which:  
6390 unique CDR3  
13 unique J



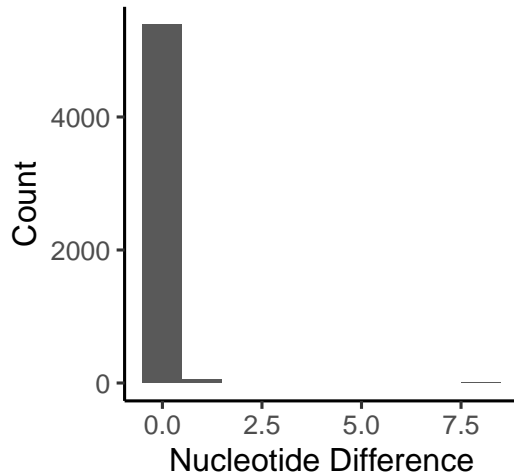
### TRBV5-1\*ap01

11292 sequences assigned  
11124 (98.5%) exact matches, in which:  
10842 unique CDR3  
13 unique J



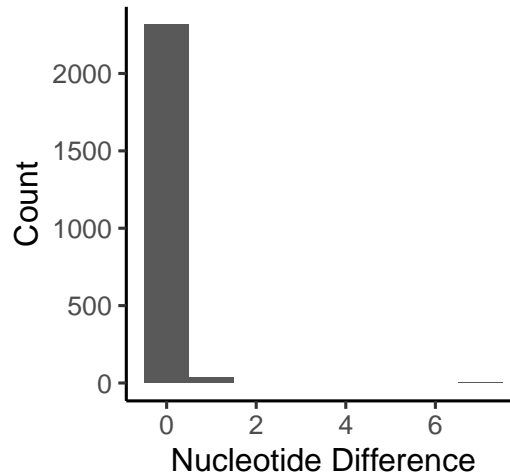
### TRBV3-12\*ap01

5437 sequences assigned  
5387 (99.1%) exact matches, in which:  
5324 unique CDR3  
13 unique J



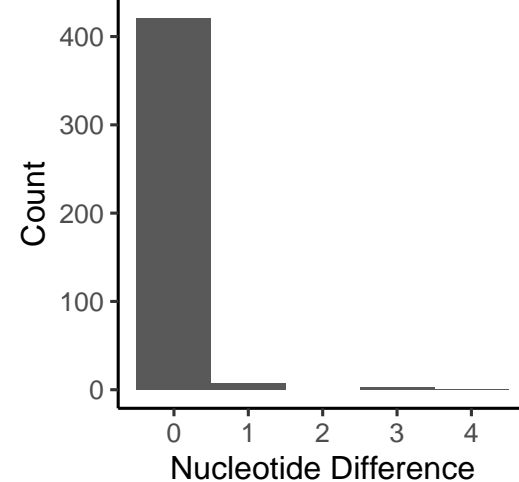
### TRBV4-2\*ap01

2349 sequences assigned  
2315 (98.6%) exact matches, in which:  
2253 unique CDR3  
13 unique J



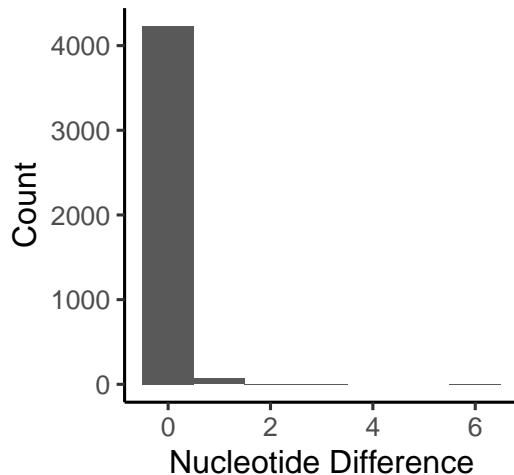
### TRBV5-3\*ap01

432 sequences assigned  
421 (97.5%) exact matches, in which:  
412 unique CDR3  
13 unique J



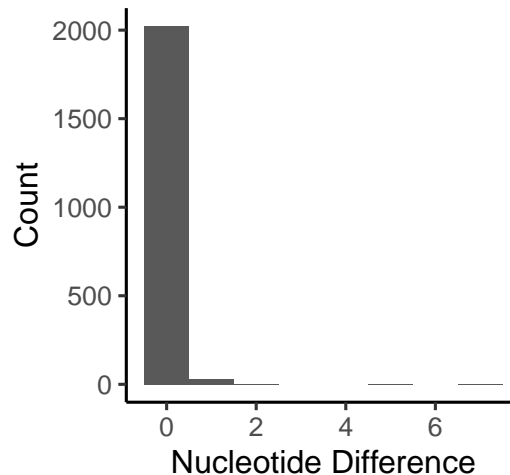
### TRBV24-1\*ap01

4305 sequences assigned  
4231 (98.3%) exact matches, in which:  
4149 unique CDR3  
13 unique J



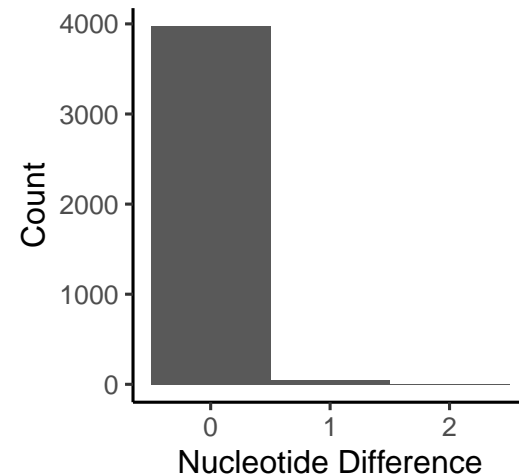
### TRBV25-1\*ap01

2057 sequences assigned  
2023 (98.3%) exact matches, in which:  
1963 unique CDR3  
13 unique J



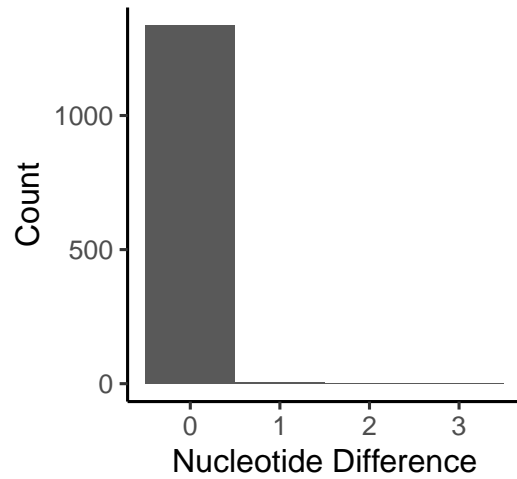
### TRBV5-4\*ap01

4027 sequences assigned  
3976 (98.7%) exact matches, in which:  
3875 unique CDR3  
13 unique J



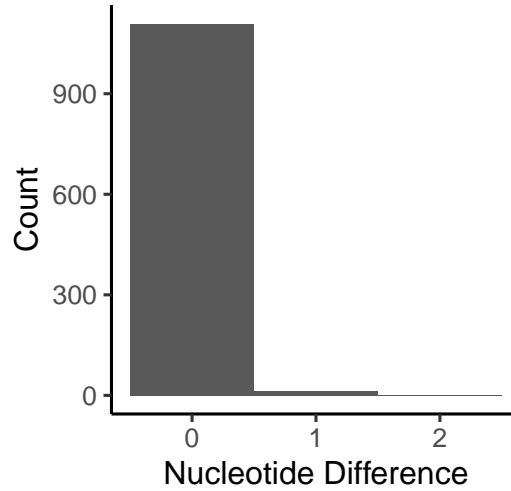
### TRBV5-5\*ap01

1343 sequences assigned  
1336 (99.5%) exact matches, in which:  
1329 unique CDR3  
13 unique J



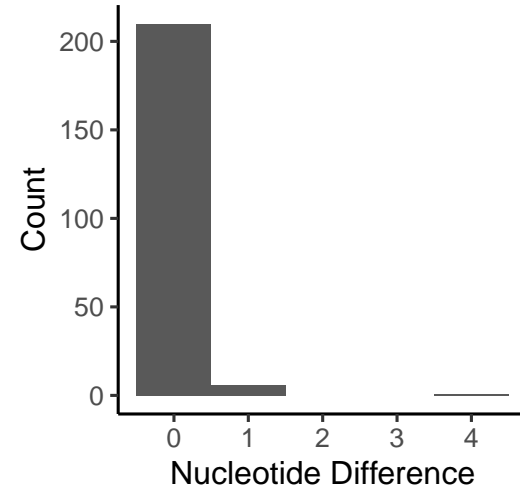
### TRBV5-8\*ap01

1123 sequences assigned  
1109 (98.8%) exact matches, in which:  
1094 unique CDR3  
13 unique J



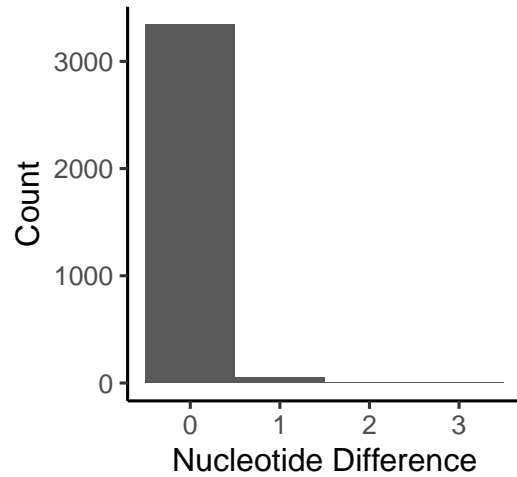
### TRBV6-7\*ap01

217 sequences assigned  
210 (96.8%) exact matches, in which:  
204 unique CDR3  
13 unique J



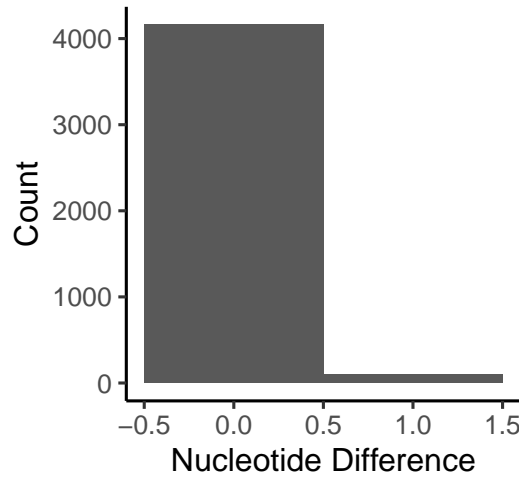
### TRBV5-6\*ap01

3395 sequences assigned  
3342 (98.4%) exact matches, in which:  
3226 unique CDR3  
13 unique J



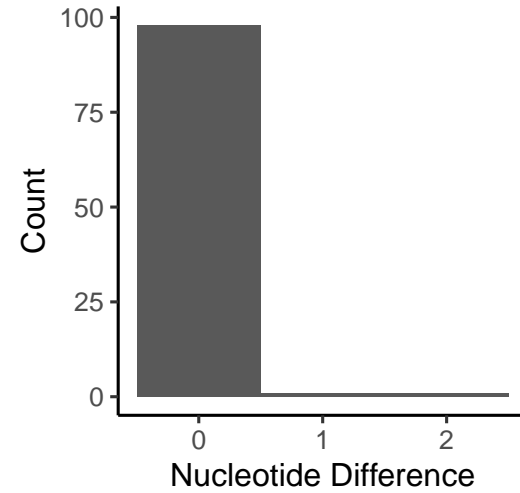
### TRBV6-1\*ap01

4261 sequences assigned  
4161 (97.7%) exact matches, in which:  
4058 unique CDR3  
13 unique J



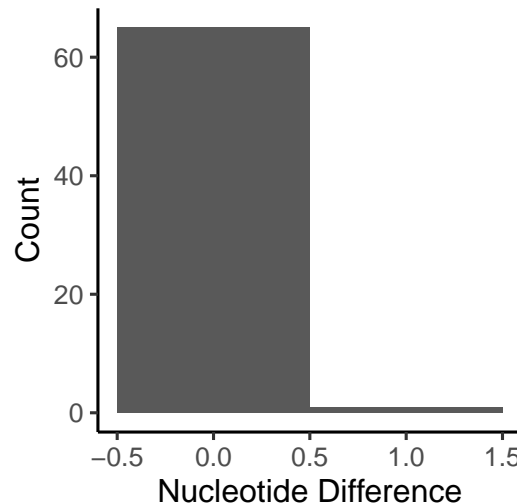
### TRBV6-8\*ap01

100 sequences assigned  
98 (98%) exact matches, in which:  
96 unique CDR3  
12 unique J



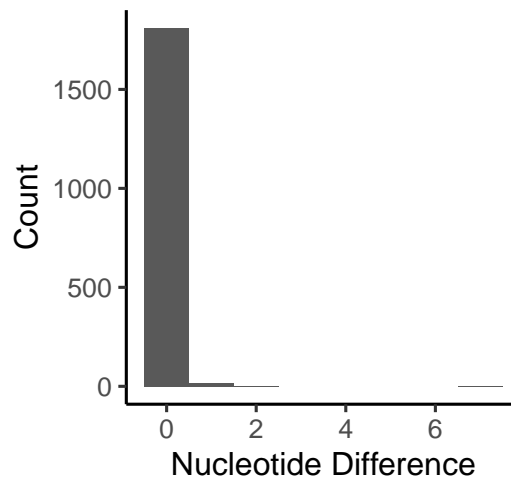
### TRBV5-7\*ap01

66 sequences assigned  
65 (98.5%) exact matches, in which:  
63 unique CDR3  
11 unique J



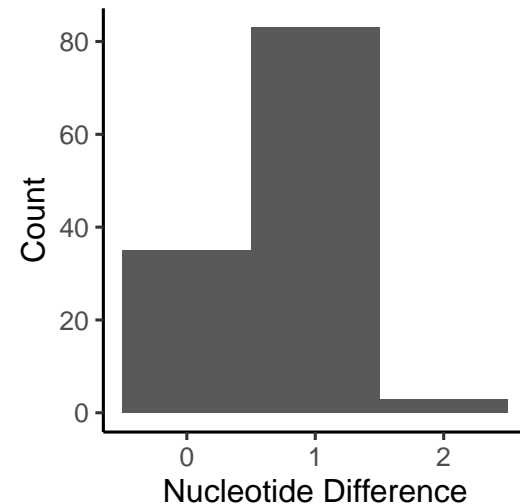
### TRBV6-4\*ap01

1829 sequences assigned  
1810 (99%) exact matches, in which:  
1790 unique CDR3  
13 unique J



### TRBV6-9\*ap01

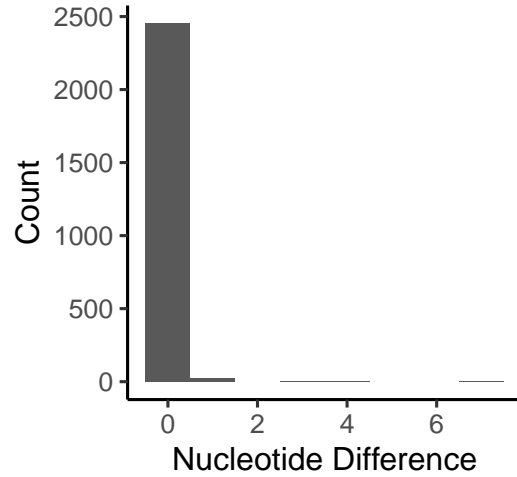
121 sequences assigned  
35 (28.9%) exact matches, in which:  
35 unique CDR3  
12 unique J





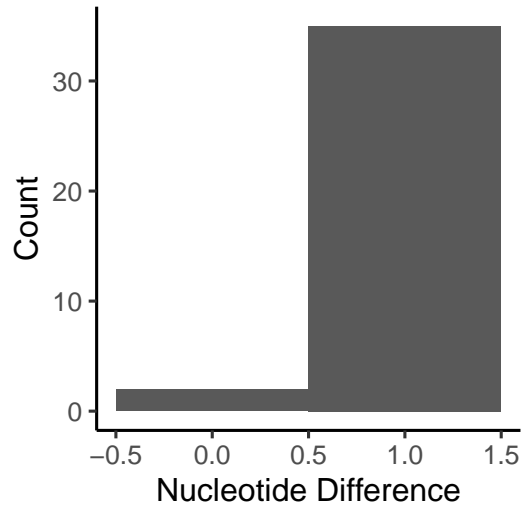
### TRBV6-23\*ap01

2481 sequences assigned  
2453 (98.9%) exact matches, in which:  
2374 unique CDR3  
13 unique J



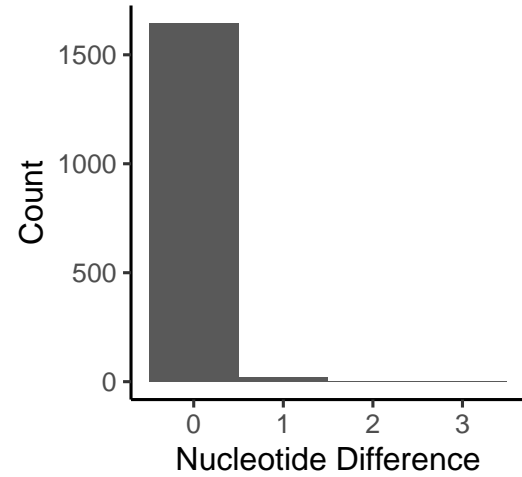
### TRBV7-1\*ap01\_T296C

37 sequences assigned  
2 (5.4%) exact matches, in which:  
2 unique CDR3  
2 unique J



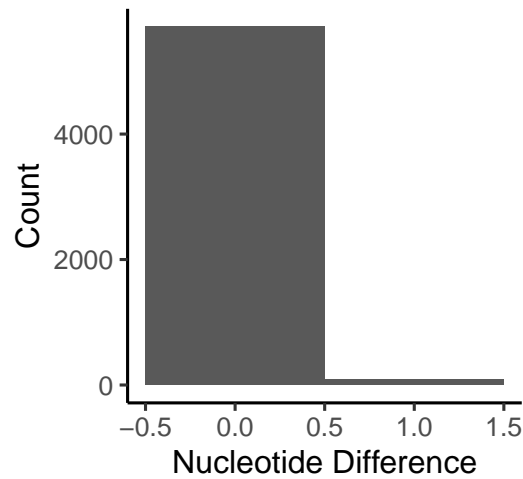
### TRBV7-3\*ap01

1667 sequences assigned  
1644 (98.6%) exact matches, in which:  
1620 unique CDR3  
13 unique J



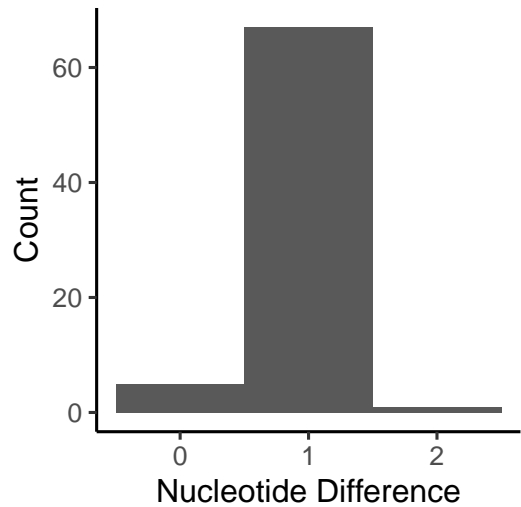
### TRBV6-56\*ap01

5801 sequences assigned  
5711 (98.4%) exact matches, in which:  
5546 unique CDR3  
13 unique J



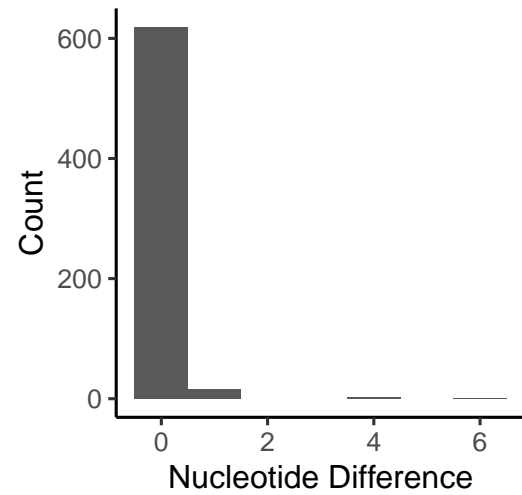
### TRBV7-1\*ap01\_T296C\_C

73 sequences assigned  
5 (6.8%) exact matches, in which:  
5 unique CDR3  
2 unique J



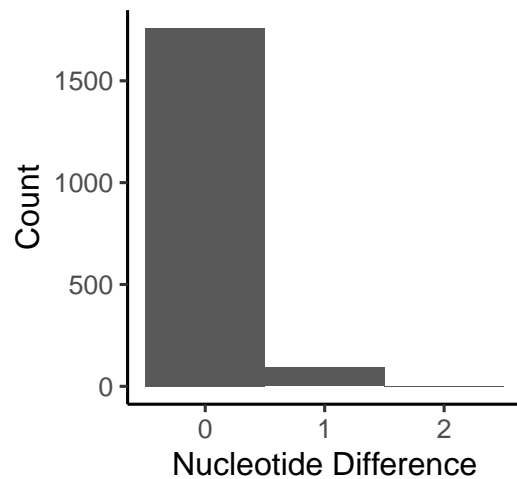
### TRBV7-3\*ap03

638 sequences assigned  
619 (97%) exact matches, in which:  
599 unique CDR3  
13 unique J



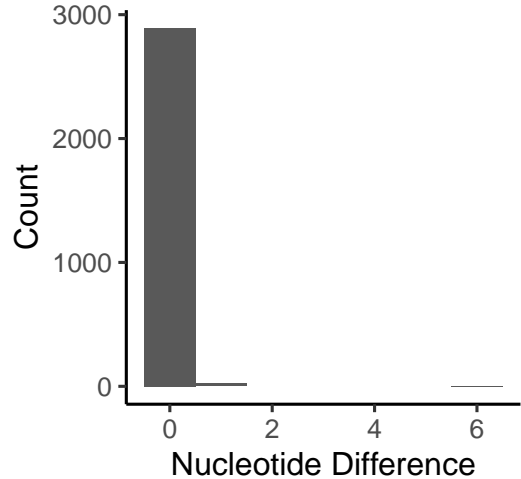
### TRBV6-56\*ap02

1852 sequences assigned  
1759 (95%) exact matches, in which:  
1708 unique CDR3  
13 unique J



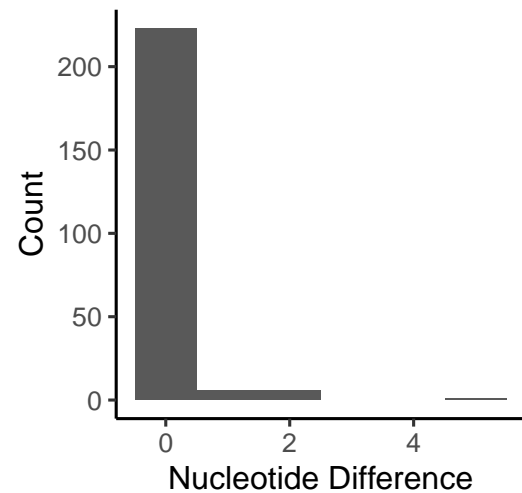
### TRBV7-2\*ap01

2917 sequences assigned  
2892 (99.1%) exact matches, in which:  
2831 unique CDR3  
13 unique J



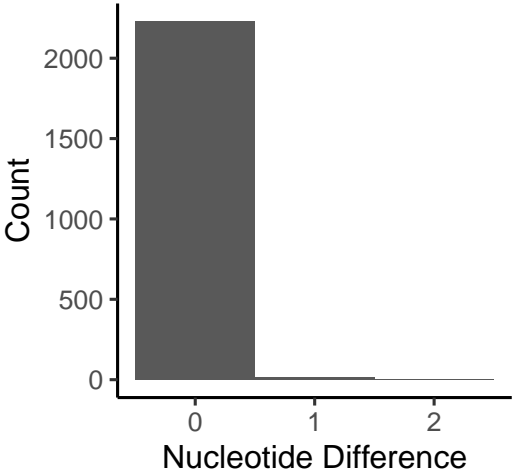
### TRBV7-4\*ap01

236 sequences assigned  
223 (94.5%) exact matches, in which:  
219 unique CDR3  
12 unique J



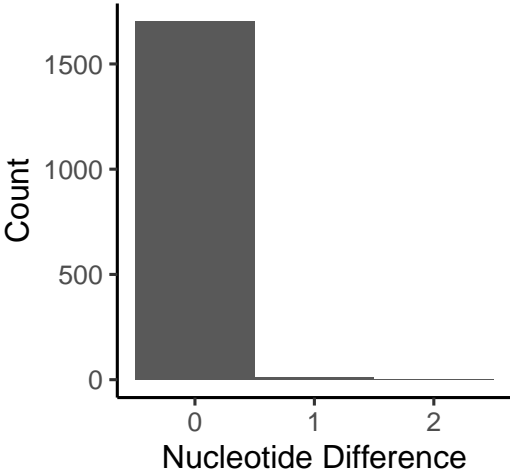
TRBV7-6\*ap01

2248 sequences assigned  
2229 (99.2%) exact matches, in which:  
2194 unique CDR3  
13 unique J



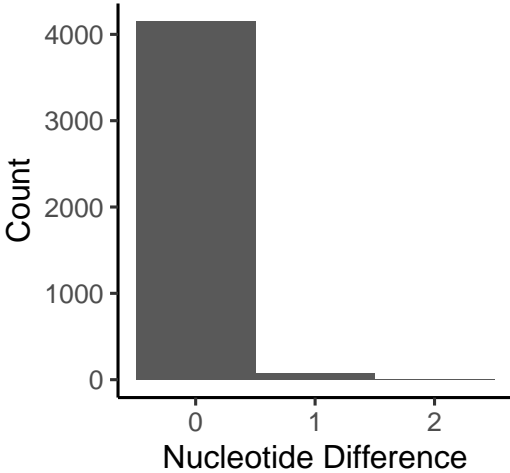
TRBV7-8\*ap01

1713 sequences assigned  
1702 (99.4%) exact matches, in which:  
1669 unique CDR3  
13 unique J



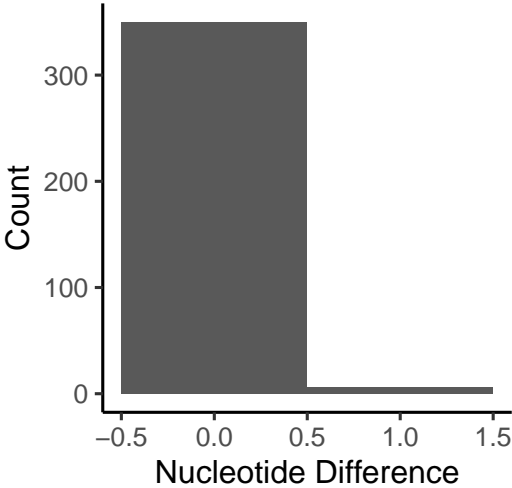
TRBV29-1\*ap01

4225 sequences assigned  
4150 (98.2%) exact matches, in which:  
4039 unique CDR3  
13 unique J



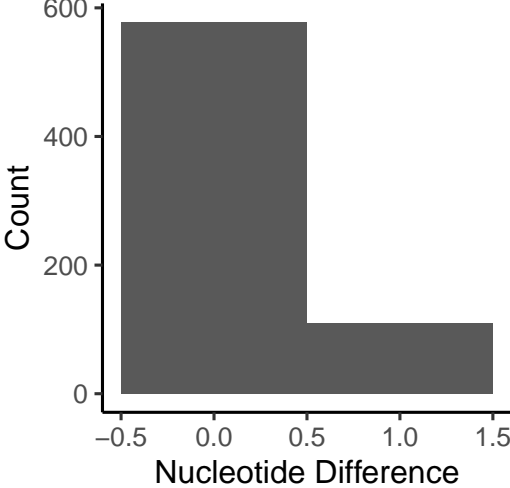
TRBV7-7\*ap01

356 sequences assigned  
350 (98.3%) exact matches, in which:  
345 unique CDR3  
12 unique J



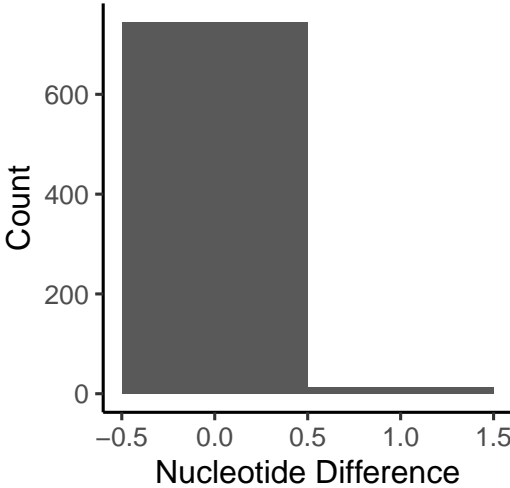
TRBV7-8\*ap03

687 sequences assigned  
578 (84.1%) exact matches, in which:  
560 unique CDR3  
13 unique J



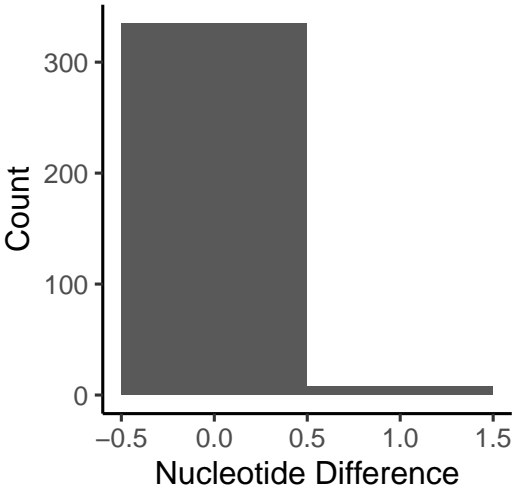
TRBV29-1\*ap02

758 sequences assigned  
745 (98.3%) exact matches, in which:  
729 unique CDR3  
12 unique J



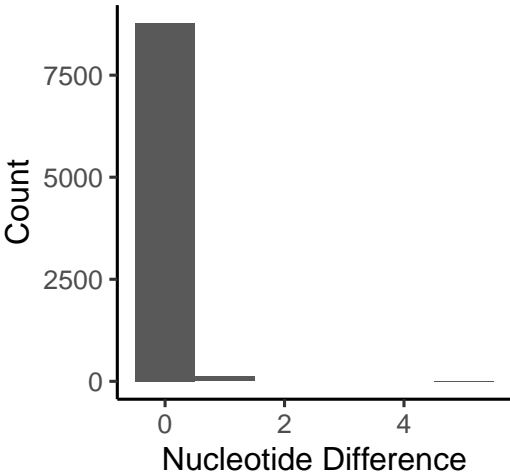
TRBV7-7\*ap01\_C315T

343 sequences assigned  
335 (97.7%) exact matches, in which:  
325 unique CDR3  
12 unique J

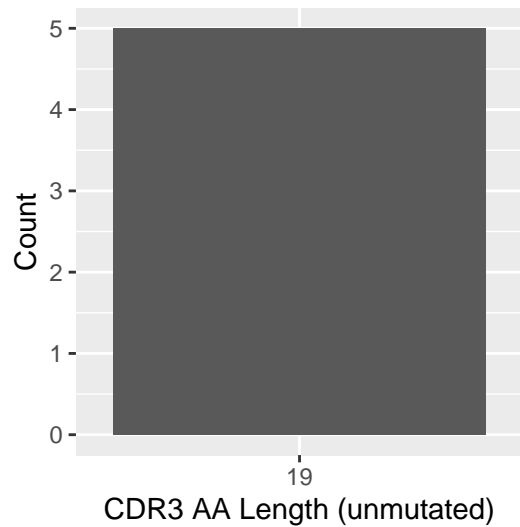


TRBV7-9\*ap01

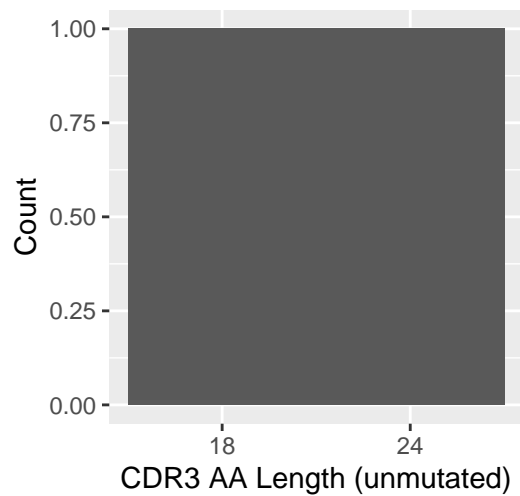
8892 sequences assigned  
8777 (98.7%) exact matches, in which:  
8616 unique CDR3  
13 unique J



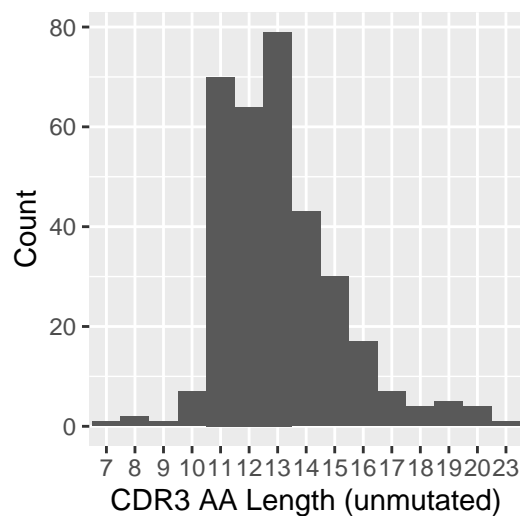
TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





Warning – no inferred sequences found.

Warning – no inferred sequences found.