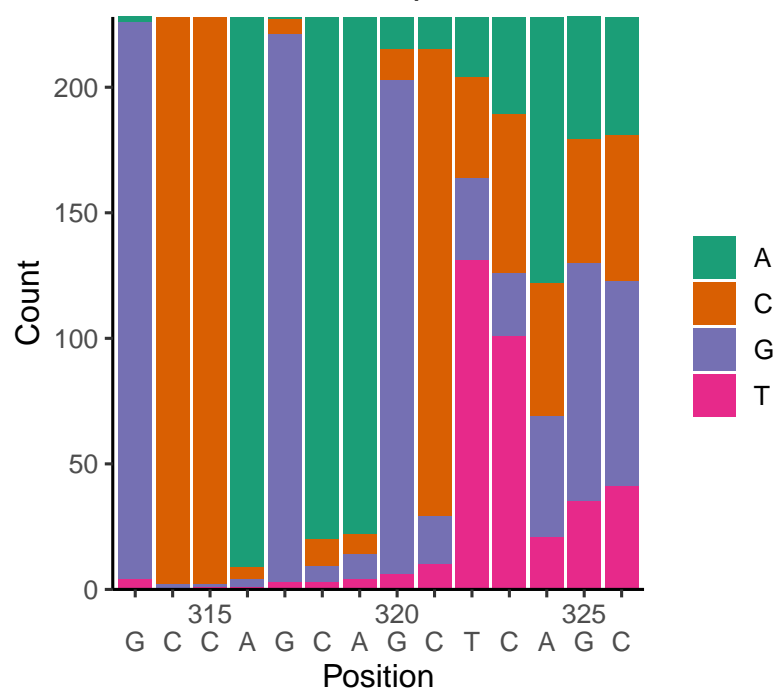
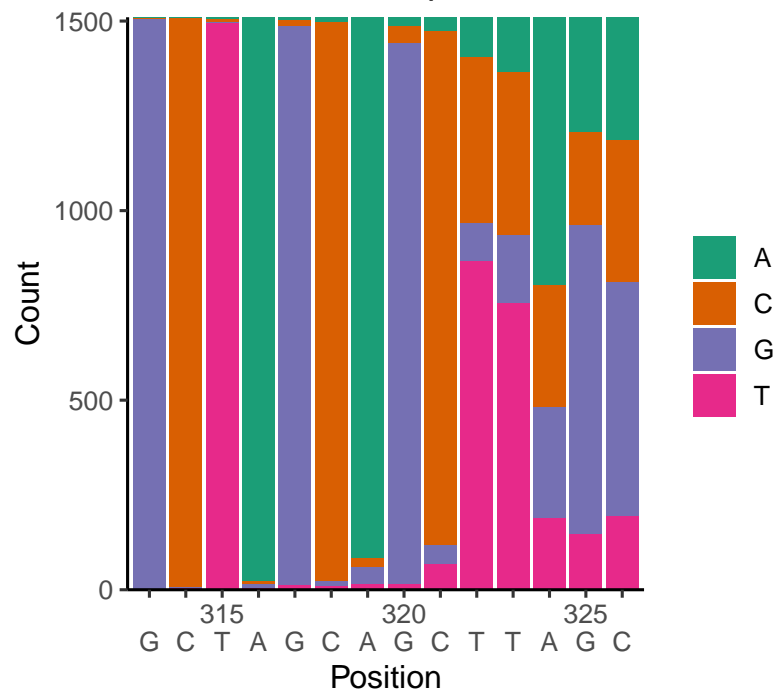


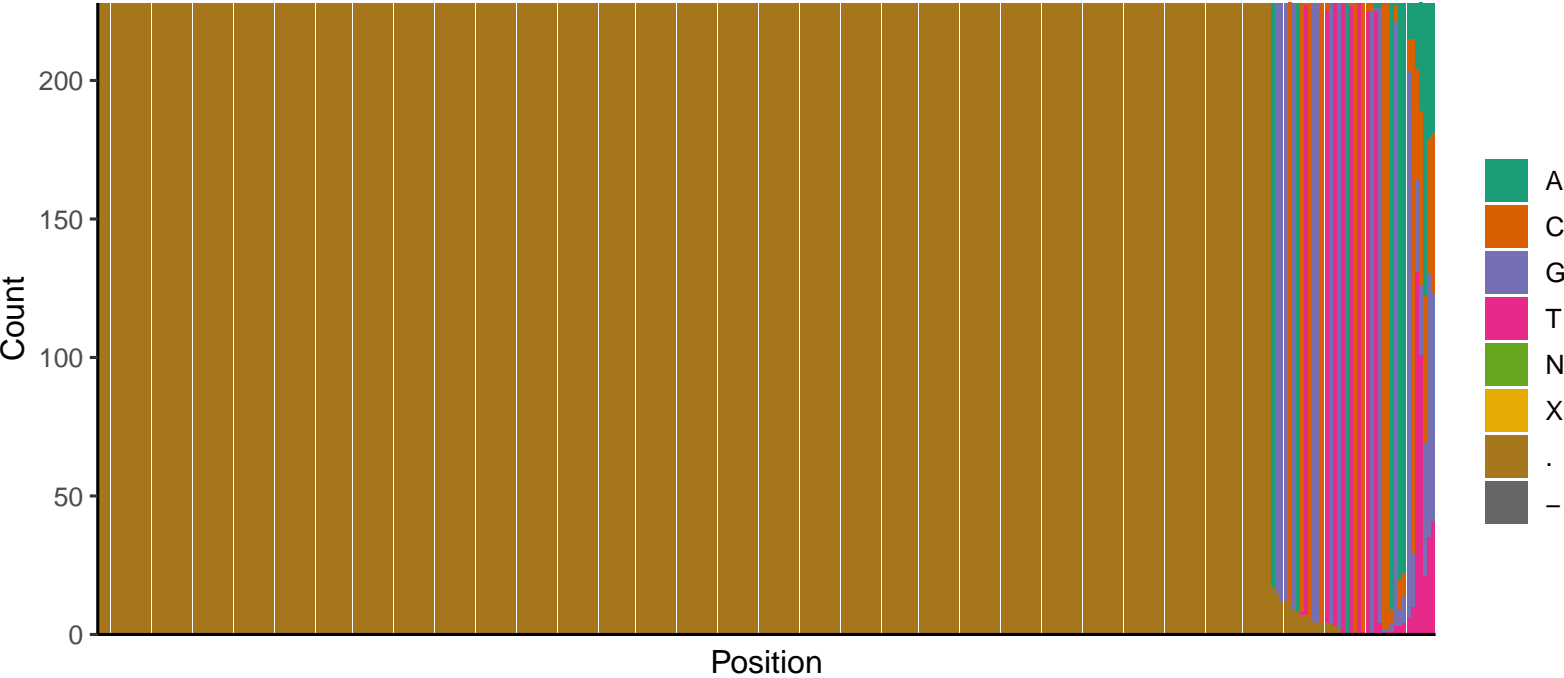
Gene TRBV7-1\*ap01\_G291C\_T296C



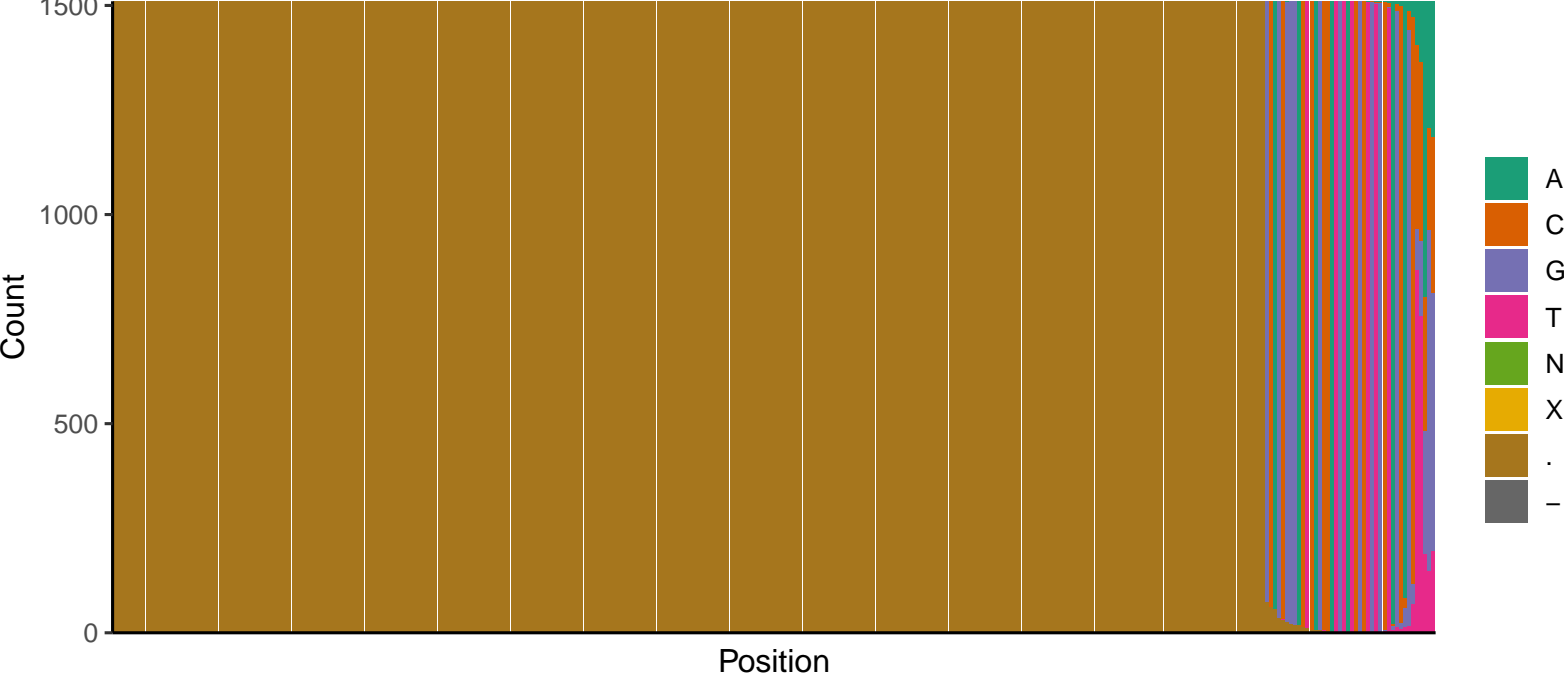
Gene TRBV7-7\*ap01\_C315T



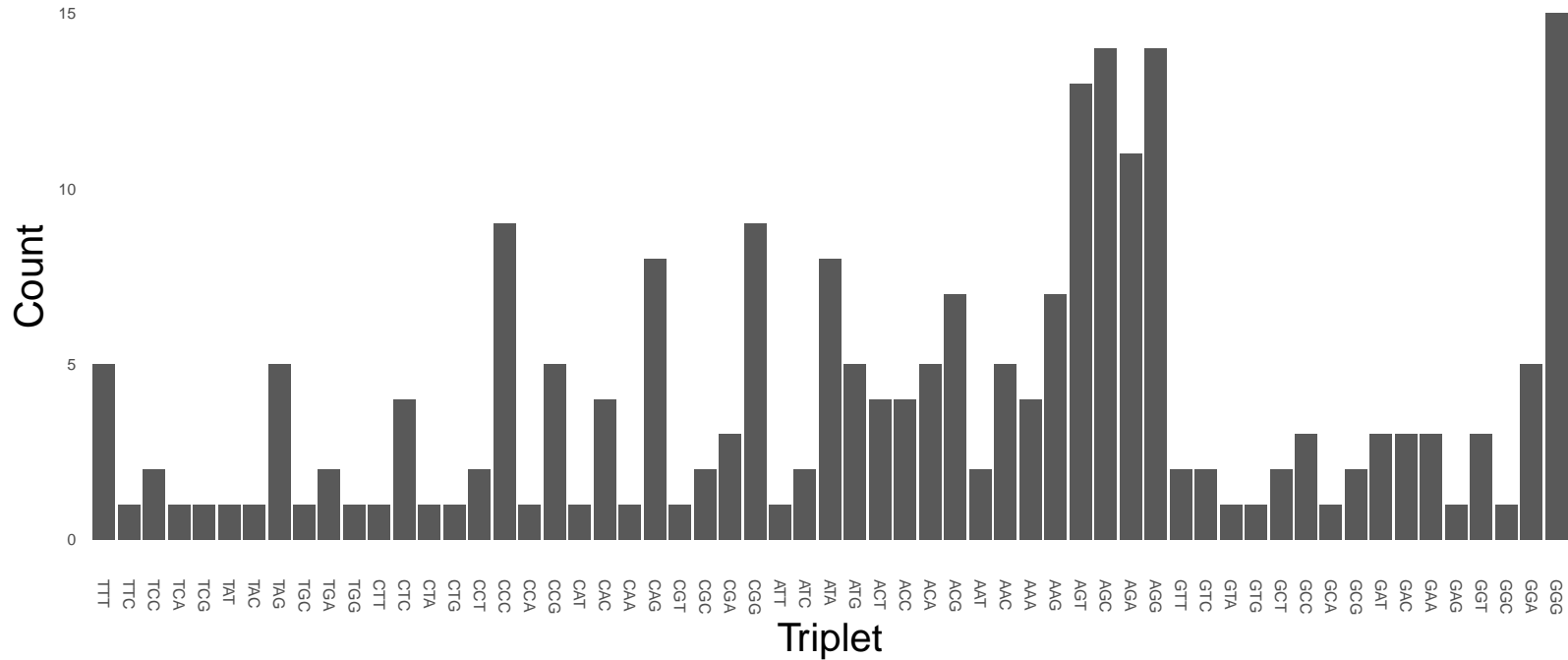
Gene TRBV7-1\*ap01\_G291C\_T296C



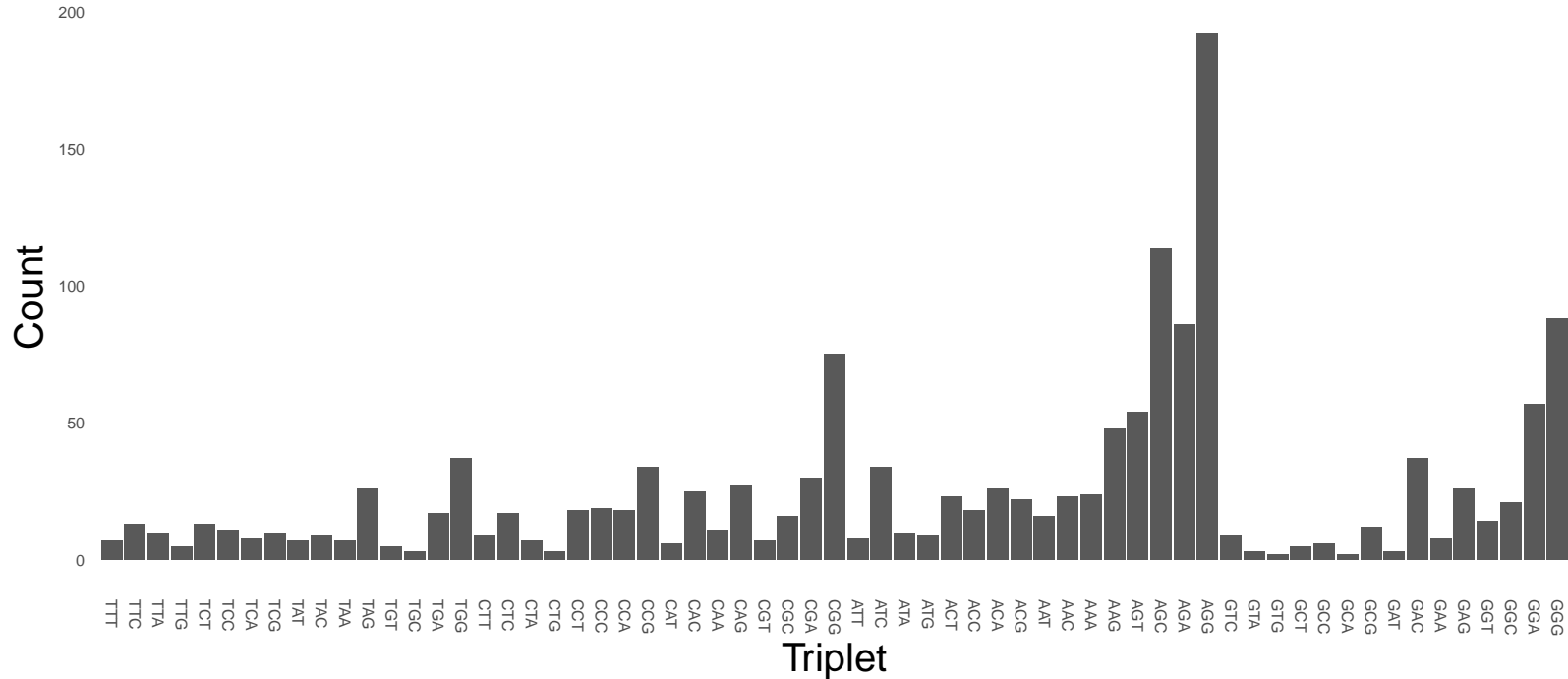
Gene TRBV7-7\*ap01\_C315T



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

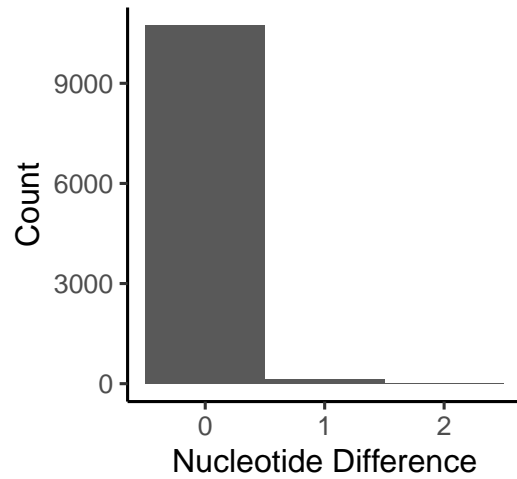


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



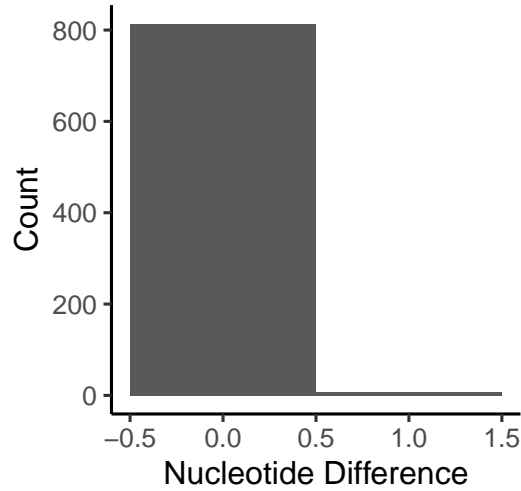
### TRBV20-1\*ap01

10872 sequences assigned  
10735 (98.7%) exact matches, in which:  
10478 unique CDR3  
14 unique J



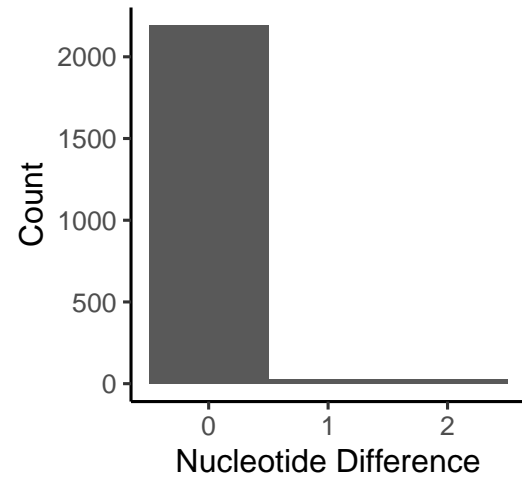
### TRBV10-2\*ap01

822 sequences assigned  
814 (99%) exact matches, in which:  
792 unique CDR3  
13 unique J



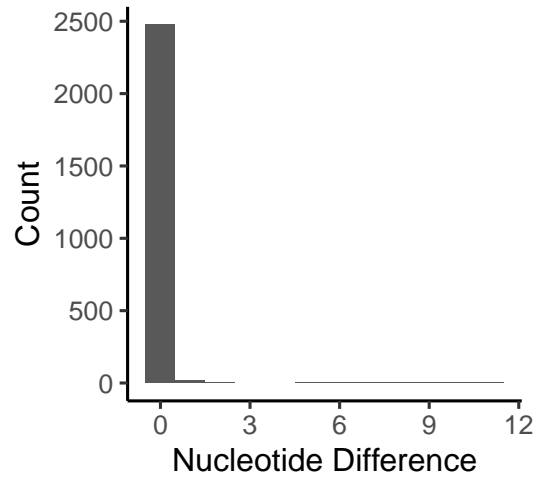
### TRBV13\*ap01

2246 sequences assigned  
2192 (97.6%) exact matches, in which:  
2123 unique CDR3  
13 unique J



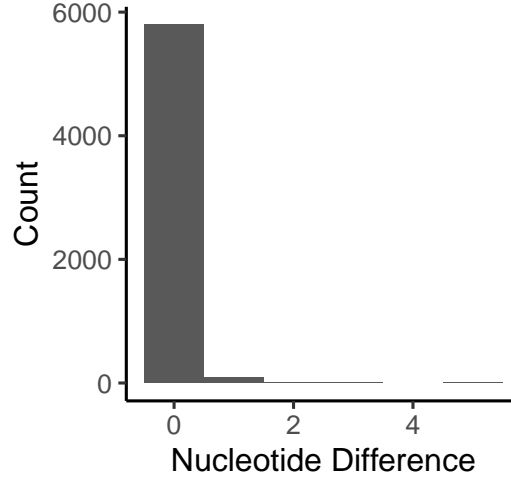
### TRBV10-1\*ap01

2506 sequences assigned  
2476 (98.8%) exact matches, in which:  
2421 unique CDR3  
13 unique J



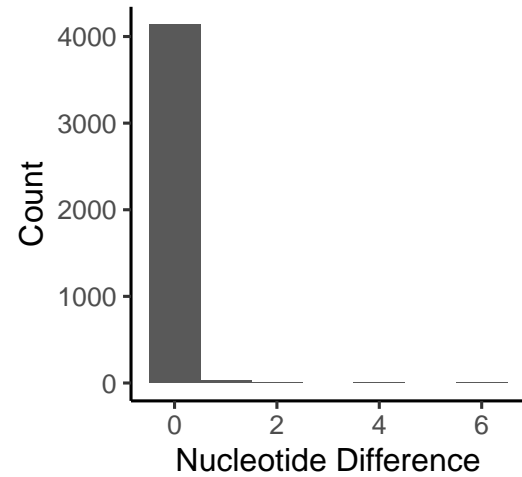
### TRBV10-3\*ap01

5888 sequences assigned  
5796 (98.4%) exact matches, in which:  
5646 unique CDR3  
13 unique J



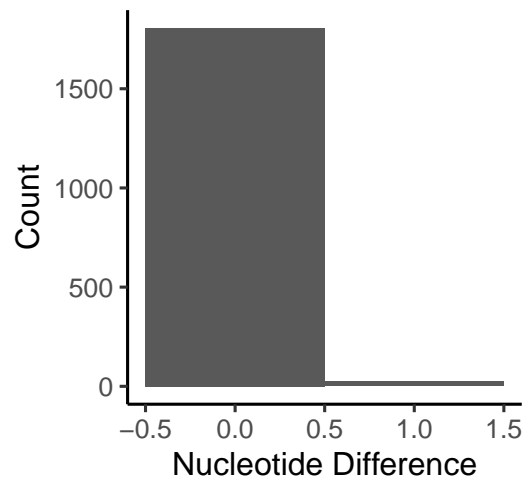
### TRBV14\*ap01

4172 sequences assigned  
4136 (99.1%) exact matches, in which:  
4057 unique CDR3  
13 unique J



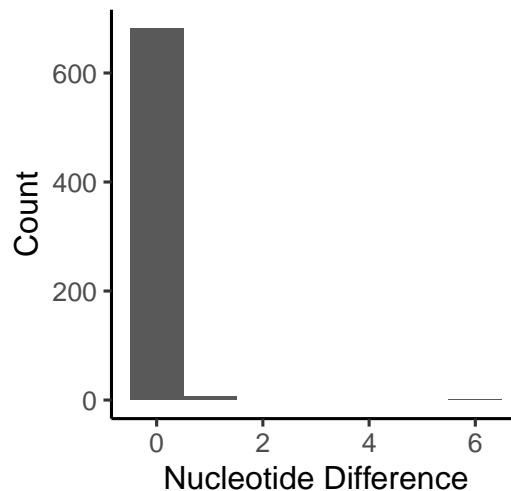
### TRBV20-1\*ap02

1831 sequences assigned  
1806 (98.6%) exact matches, in which:  
1766 unique CDR3  
13 unique J



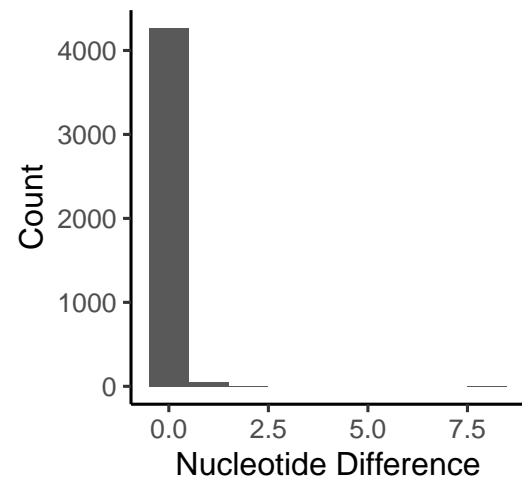
### TRBV1\*ap01

690 sequences assigned  
682 (98.8%) exact matches, in which:  
667 unique CDR3  
13 unique J



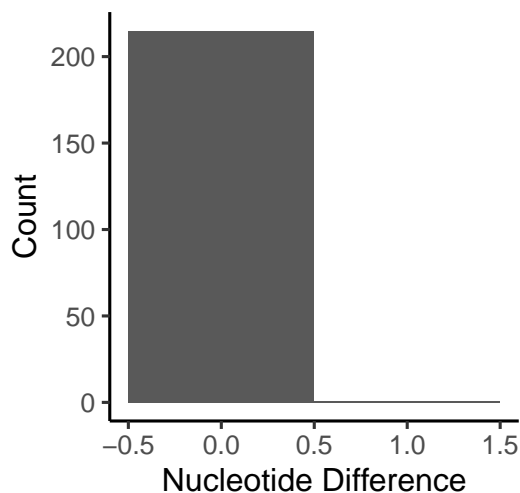
### TRBV15\*ap02

4320 sequences assigned  
4267 (98.8%) exact matches, in which:  
4179 unique CDR3  
13 unique J



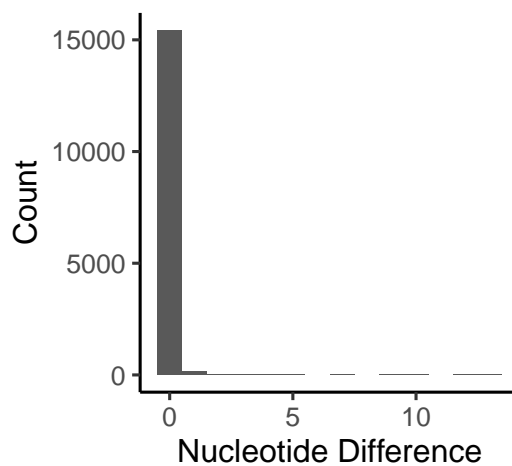
### TRBV16\*ap01

216 sequences assigned  
215 (99.5%) exact matches, in which:  
214 unique CDR3  
12 unique J



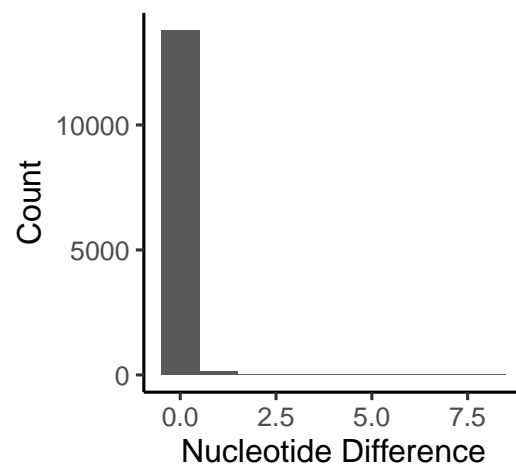
### TRBV19\*ap01

15609 sequences assigned  
15434 (98.9%) exact matches, in which:  
15216 unique CDR3  
13 unique J



### TRBV27\*ap01

13974 sequences assigned  
13792 (98.7%) exact matches, in which:  
13382 unique CDR3  
13 unique J



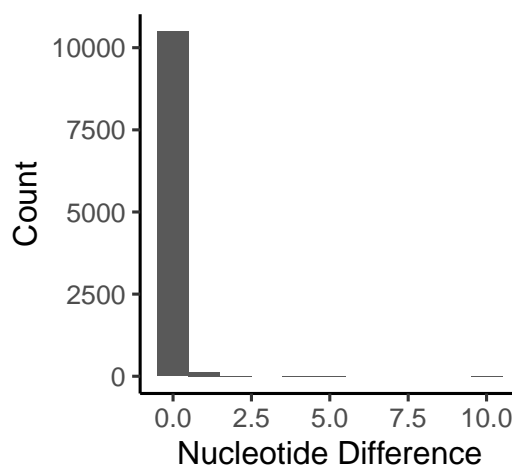
### TRBV17\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



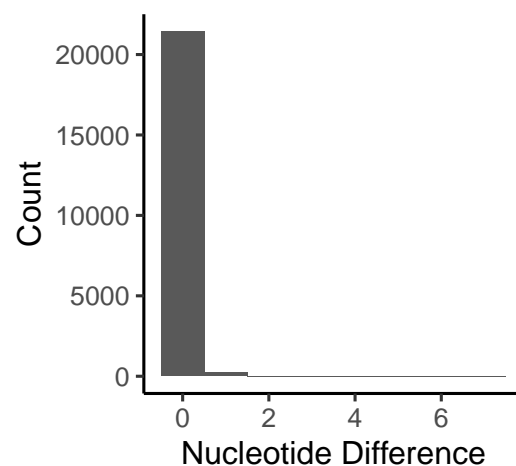
### TRBV2\*ap01

10625 sequences assigned  
10494 (98.8%) exact matches, in which:  
10261 unique CDR3  
13 unique J



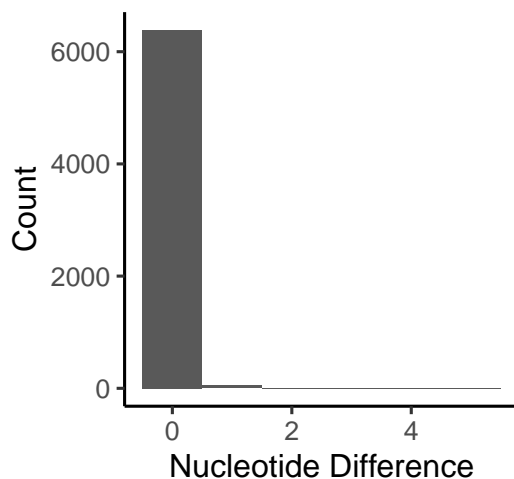
### TRBV28\*ap01

21686 sequences assigned  
21435 (98.8%) exact matches, in which:  
20938 unique CDR3  
13 unique J



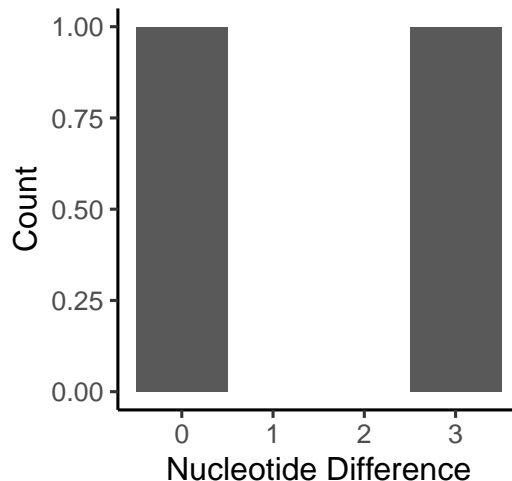
### TRBV18\*ap01

6443 sequences assigned  
6386 (99.1%) exact matches, in which:  
6293 unique CDR3  
13 unique J



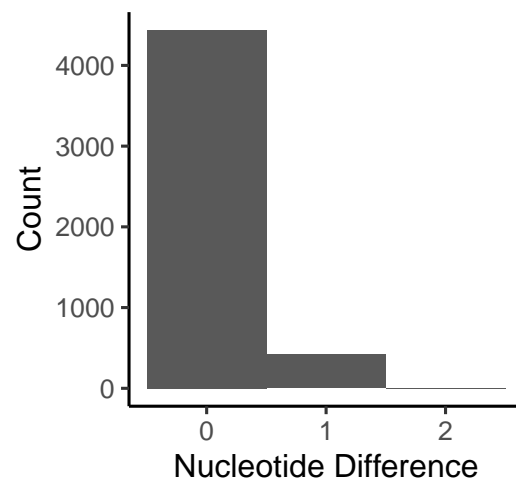
### TRBV26\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



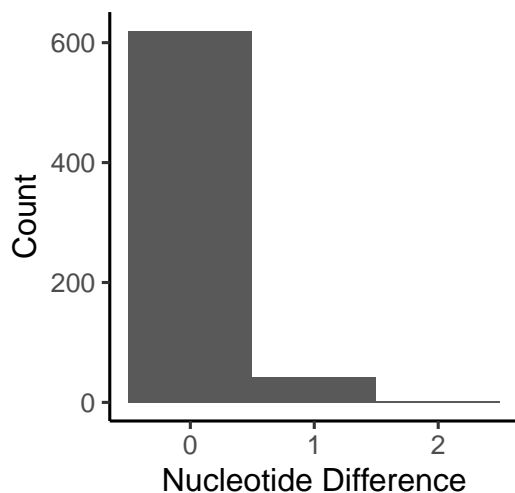
### TRBV30\*ap01

4861 sequences assigned  
4438 (91.3%) exact matches, in which:  
4377 unique CDR3  
13 unique J



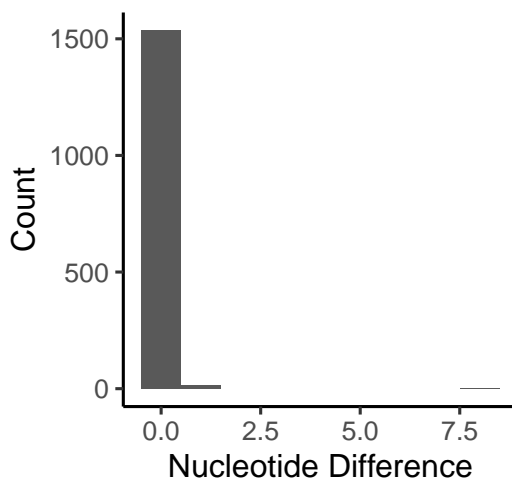
### TRBV30\*ap03

664 sequences assigned  
620 (93.4%) exact matches, in which:  
603 unique CDR3  
13 unique J



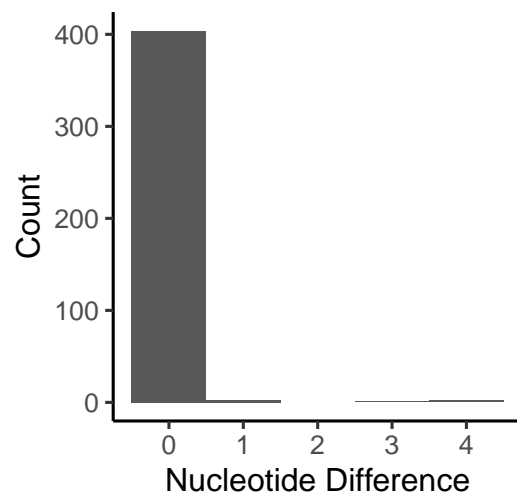
### TRBV11-1\*ap01

1552 sequences assigned  
1536 (99%) exact matches, in which:  
1515 unique CDR3  
13 unique J



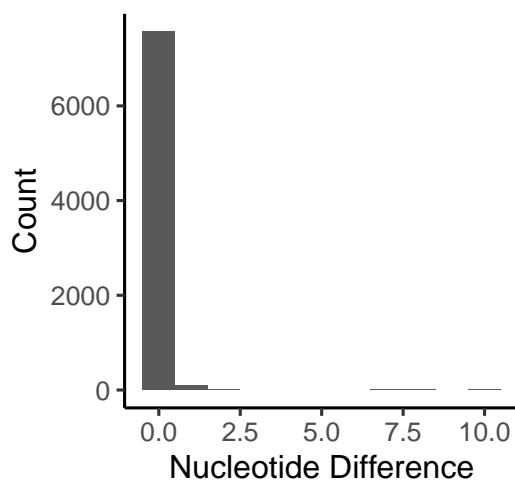
### TRBV12-1\*ap01

410 sequences assigned  
404 (98.5%) exact matches, in which:  
390 unique CDR3  
13 unique J



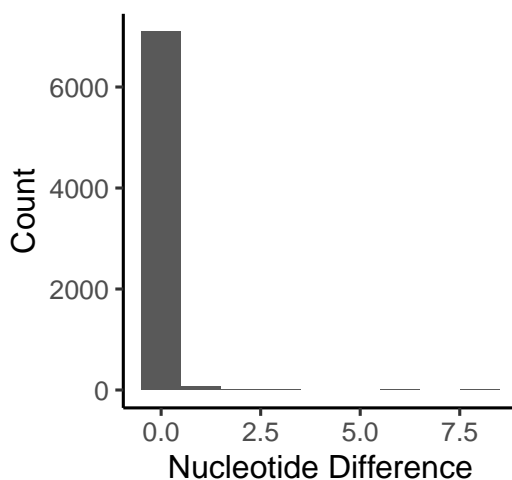
### TRBV9\*ap01

7661 sequences assigned  
7566 (98.8%) exact matches, in which:  
7414 unique CDR3  
13 unique J



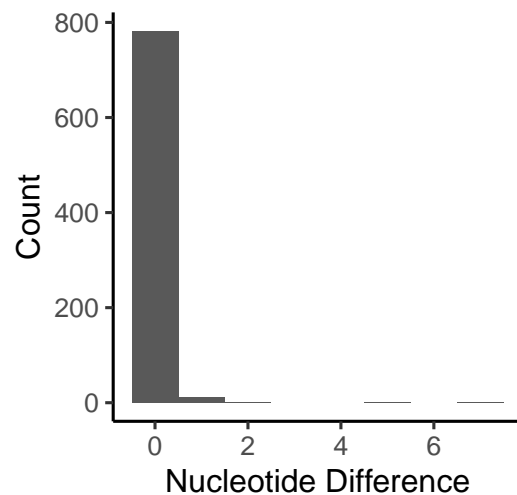
### TRBV11-2\*ap01

7160 sequences assigned  
7095 (99.1%) exact matches, in which:  
6908 unique CDR3  
13 unique J



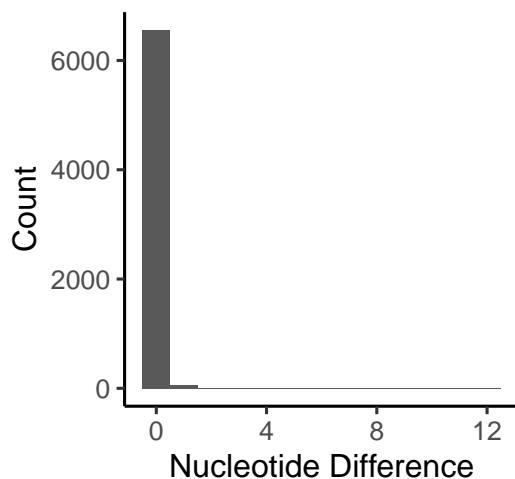
### TRBV12-2\*ap01

797 sequences assigned  
782 (98.1%) exact matches, in which:  
761 unique CDR3  
13 unique J



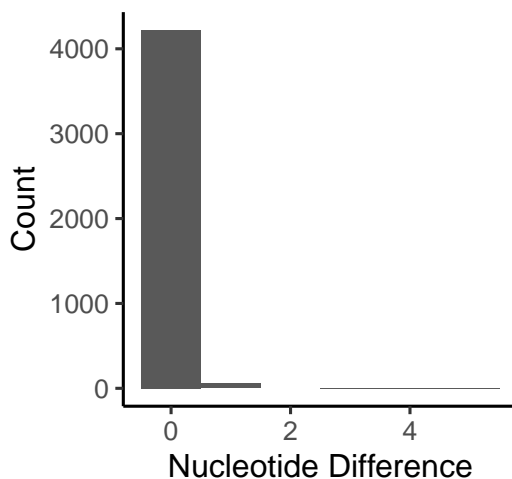
### TRBV21-1\*ap01

6663 sequences assigned  
6557 (98.4%) exact matches, in which:  
6455 unique CDR3  
13 unique J



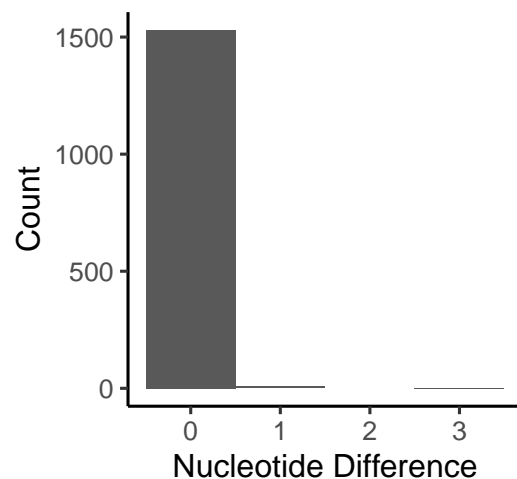
### TRBV11-3\*ap01

4280 sequences assigned  
4221 (98.6%) exact matches, in which:  
4131 unique CDR3  
13 unique J



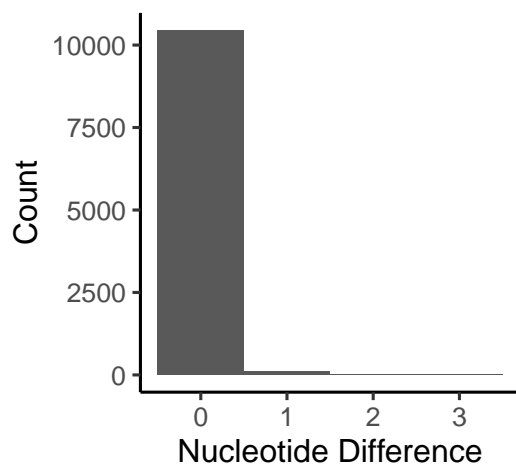
### TRBV12-5\*ap01

1539 sequences assigned  
1530 (99.4%) exact matches, in which:  
1500 unique CDR3  
13 unique J



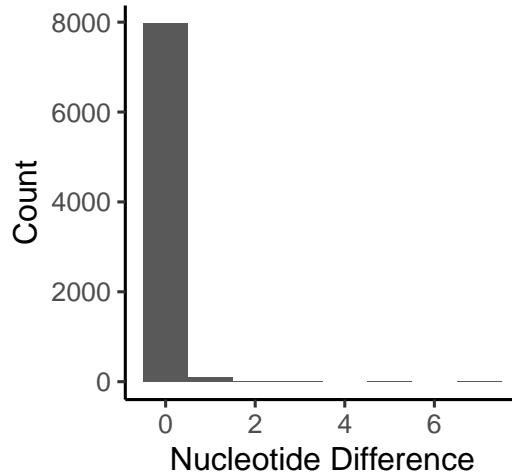
### TRBV12-34\*ap01

10580 sequences assigned  
10452 (98.8%) exact matches, in which:  
10210 unique CDR3  
13 unique J



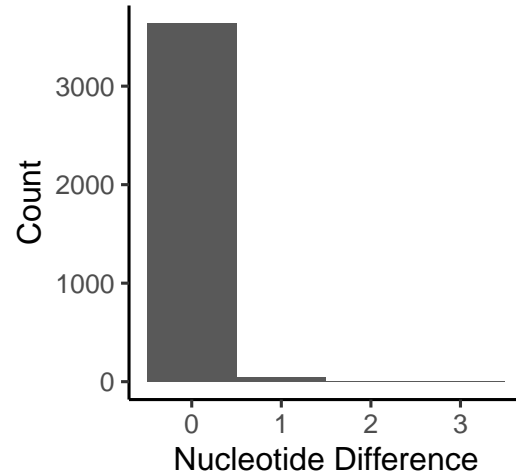
### TRBV24-1\*ap01

8102 sequences assigned  
7972 (98.4%) exact matches, in which:  
7818 unique CDR3  
13 unique J



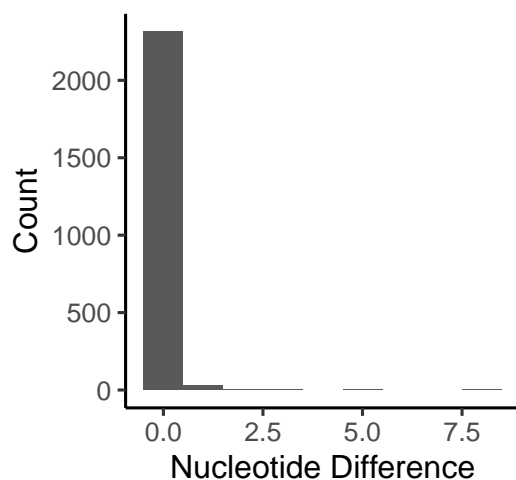
### TRBV4-3\*ap01

3683 sequences assigned  
3637 (98.8%) exact matches, in which:  
3538 unique CDR3  
13 unique J



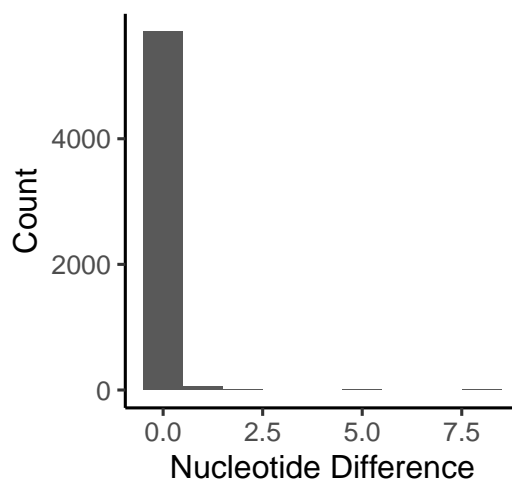
### TRBV23-1\*ap01

2350 sequences assigned  
2314 (98.5%) exact matches, in which:  
2264 unique CDR3  
14 unique J



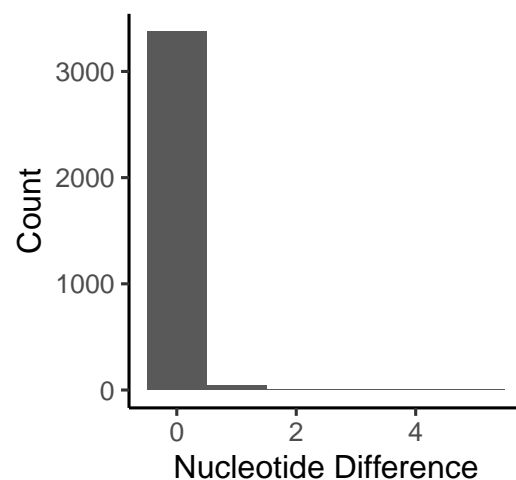
### TRBV4-1\*ap01

5772 sequences assigned  
5704 (98.8%) exact matches, in which:  
5560 unique CDR3  
13 unique J



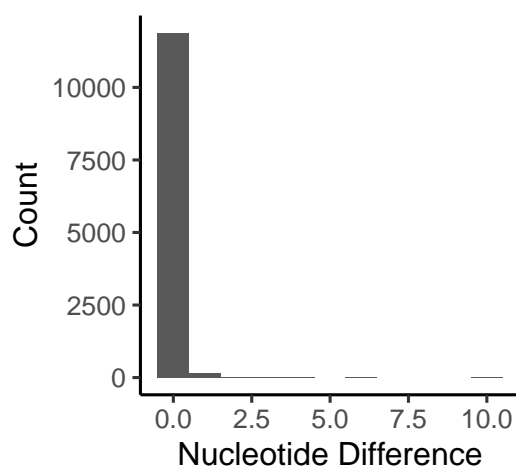
### TRBV25-1\*ap01

3427 sequences assigned  
3374 (98.5%) exact matches, in which:  
3306 unique CDR3  
13 unique J



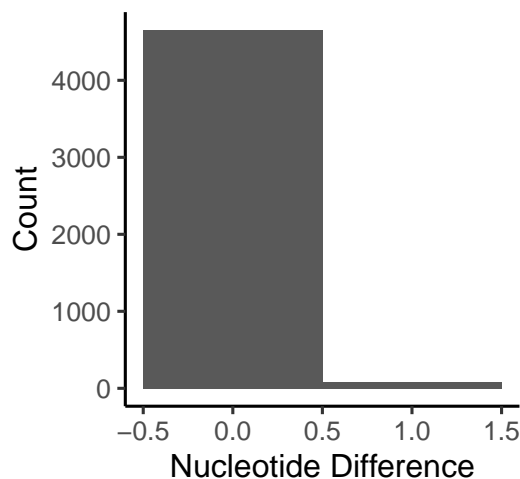
### TRBV3-12\*ap01

12057 sequences assigned  
11882 (98.5%) exact matches, in which:  
11587 unique CDR3  
13 unique J



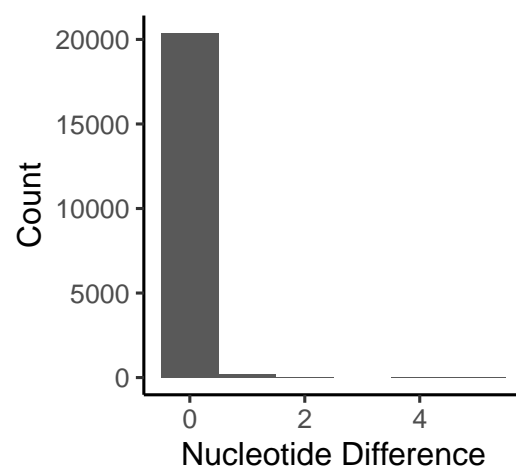
### TRBV4-2\*ap01

4739 sequences assigned  
4653 (98.2%) exact matches, in which:  
4545 unique CDR3  
13 unique J



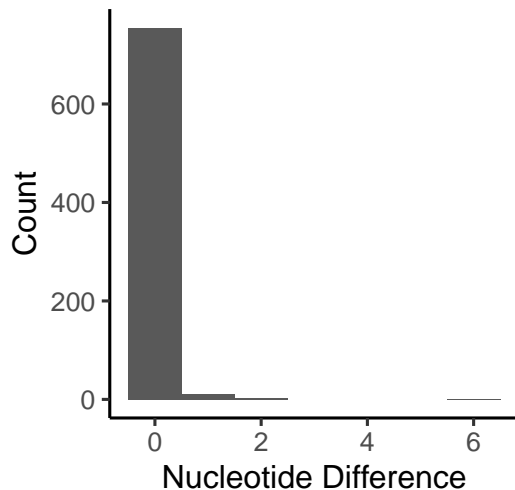
### TRBV5-1\*ap01

20636 sequences assigned  
20393 (98.8%) exact matches, in which:  
19859 unique CDR3  
13 unique J



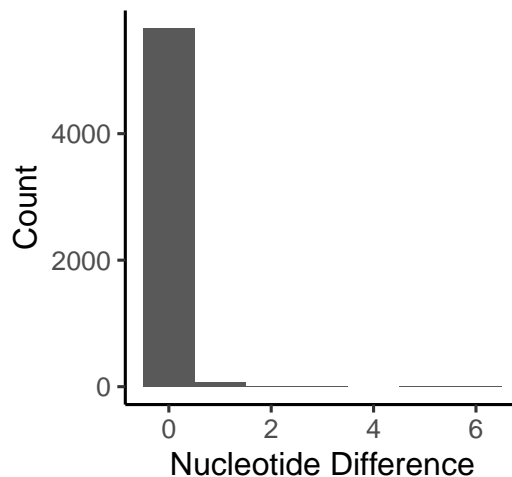
### TRBV5-3\*ap01

770 sequences assigned  
755 (98.1%) exact matches, in which:  
739 unique CDR3  
13 unique J



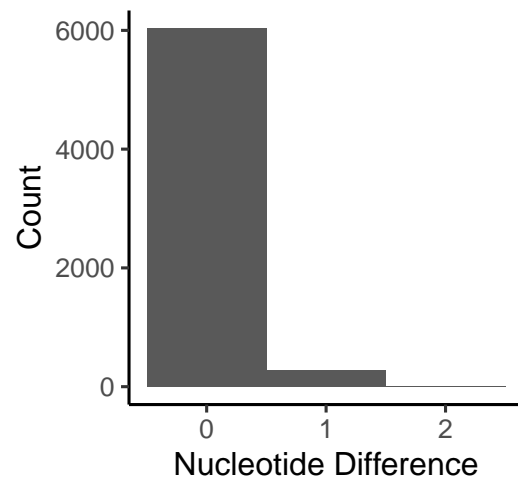
### TRBV5-6\*ap01

5743 sequences assigned  
5664 (98.6%) exact matches, in which:  
5515 unique CDR3  
13 unique J



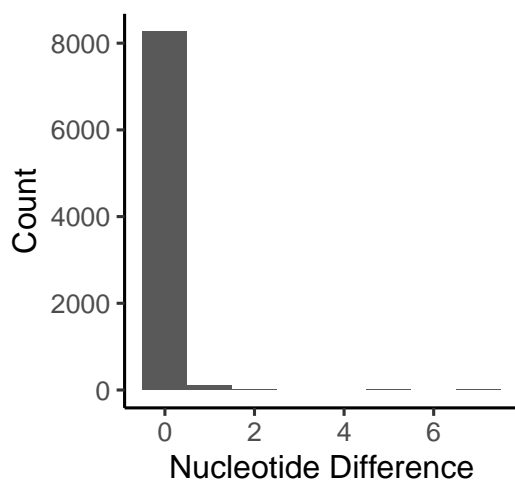
### TRBV6-1\*ap01

6323 sequences assigned  
6033 (95.4%) exact matches, in which:  
5874 unique CDR3  
13 unique J



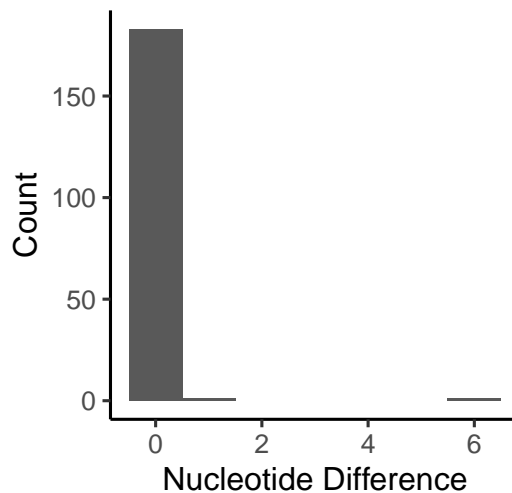
### TRBV5-4\*ap01

8369 sequences assigned  
8264 (98.7%) exact matches, in which:  
8063 unique CDR3  
13 unique J



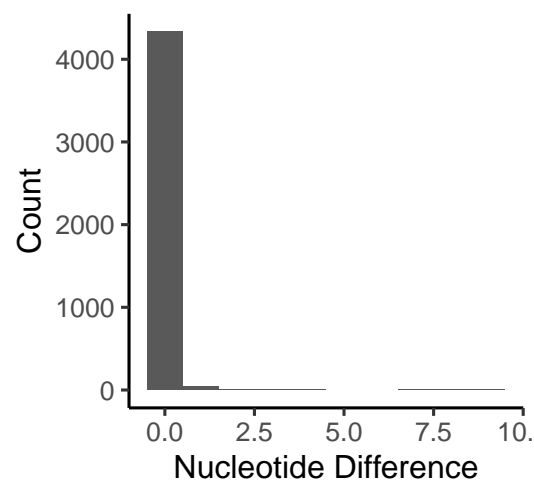
### TRBV5-7\*ap01

185 sequences assigned  
183 (98.9%) exact matches, in which:  
181 unique CDR3  
13 unique J



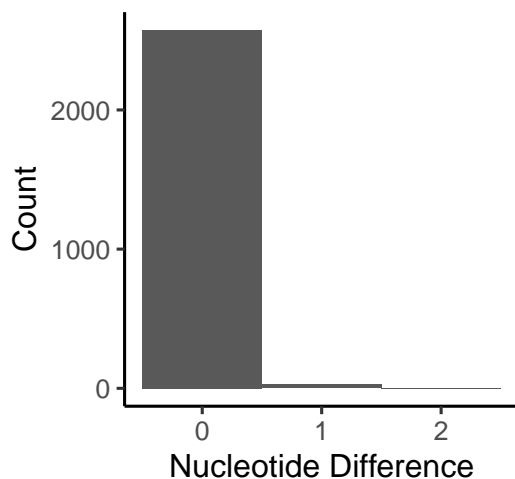
### TRBV6-4\*ap01

4398 sequences assigned  
4333 (98.5%) exact matches, in which:  
4240 unique CDR3  
13 unique J



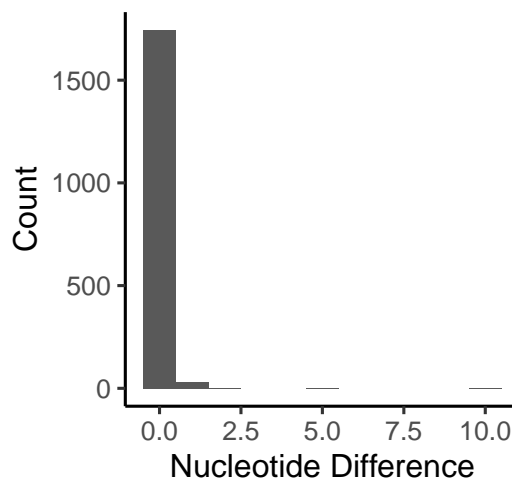
### TRBV5-5\*ap01

2603 sequences assigned  
2574 (98.9%) exact matches, in which:  
2548 unique CDR3  
13 unique J



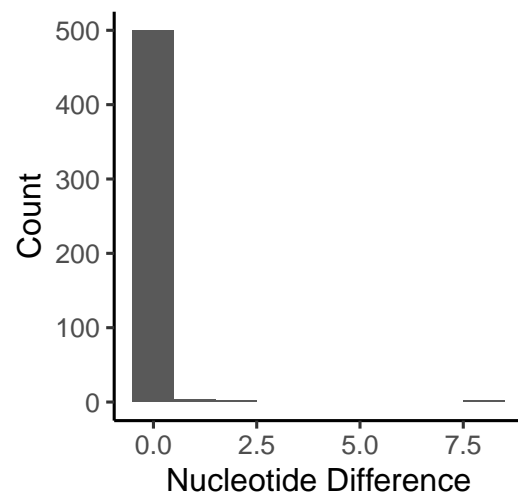
### TRBV5-8\*ap01

1780 sequences assigned  
1744 (98%) exact matches, in which:  
1708 unique CDR3  
13 unique J



### TRBV6-7\*ap01

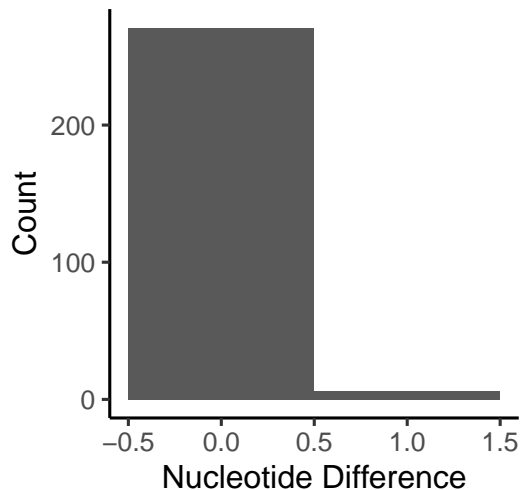
508 sequences assigned  
500 (98.4%) exact matches, in which:  
483 unique CDR3  
13 unique J





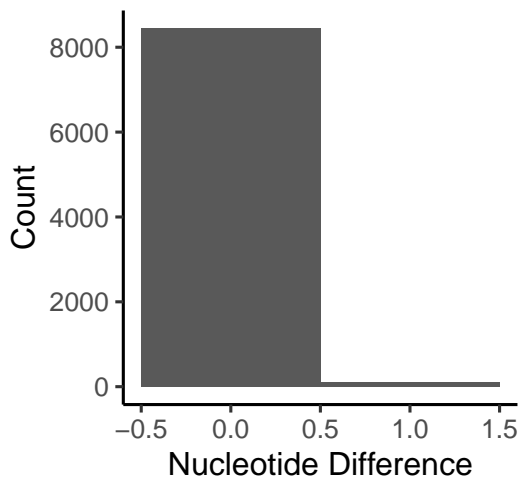
### TRBV6–8\*ap01

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



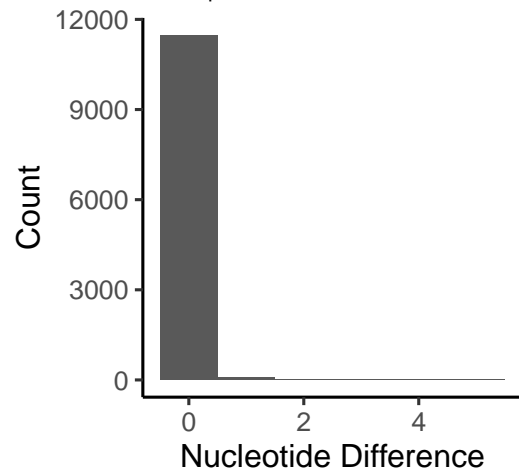
### TRBV6–56\*ap01

8553 sequences assigned  
8444 (98.7%) exact matches, in which:  
8217 unique CDR3  
13 unique J



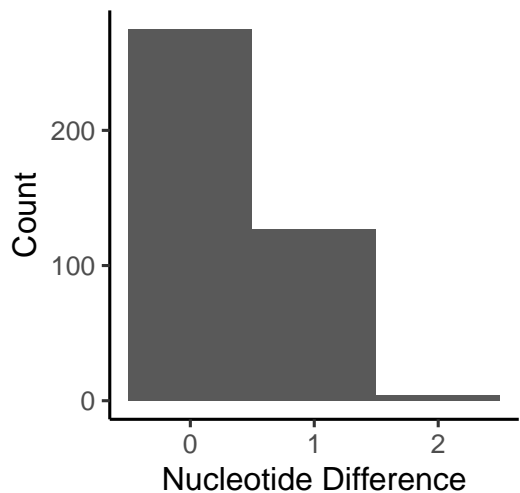
### TRBV7–2\*ap01

11564 sequences assigned  
11476 (99.2%) exact matches, in which:  
11207 unique CDR3  
13 unique J



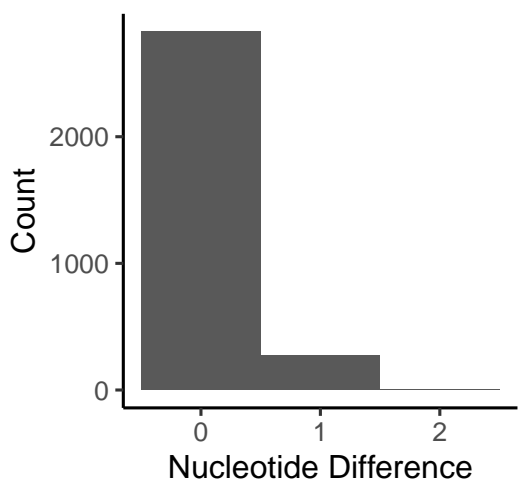
### TRBV6–9\*ap01

406 sequences assigned  
275 (67.7%) exact matches, in which:  
267 unique CDR3  
13 unique J



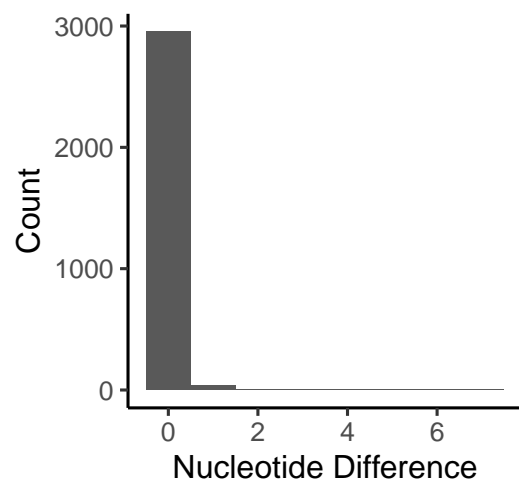
### TRBV6–56\*ap02

3102 sequences assigned  
2829 (91.2%) exact matches, in which:  
2752 unique CDR3  
13 unique J



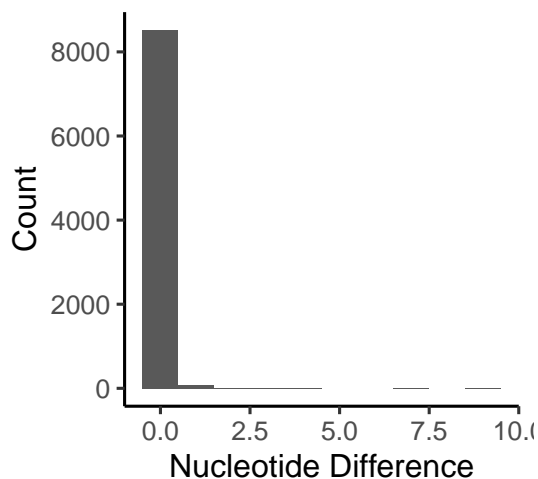
### TRBV7–3\*ap03

3001 sequences assigned  
2953 (98.4%) exact matches, in which:  
2871 unique CDR3  
13 unique J



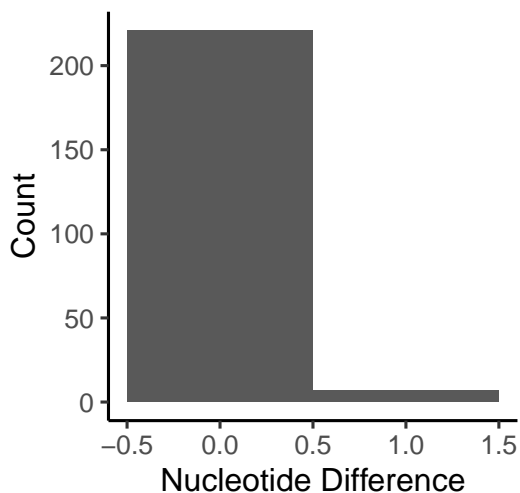
### TRBV6–23\*ap01

8612 sequences assigned  
8519 (98.9%) exact matches, in which:  
8304 unique CDR3  
13 unique J



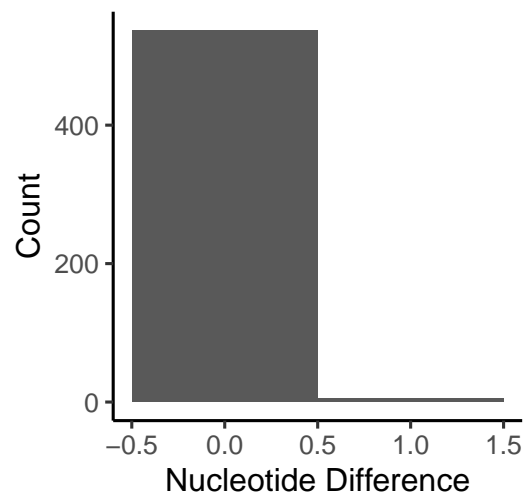
### TRBV7–1\*ap01\_G291C\_

228 sequences assigned  
221 (96.9%) exact matches, in which:  
218 unique CDR3  
13 unique J



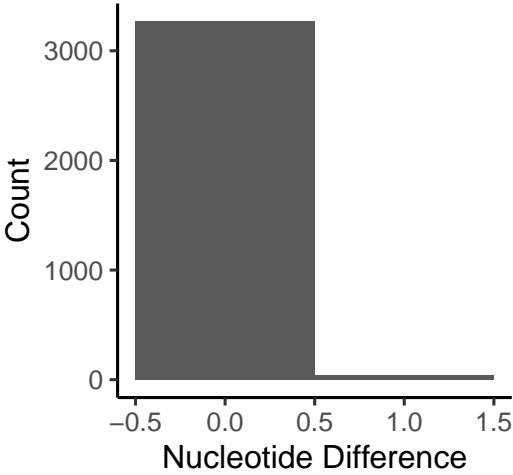
### TRBV7–4\*ap01

542 sequences assigned  
537 (99.1%) exact matches, in which:  
521 unique CDR3  
13 unique J



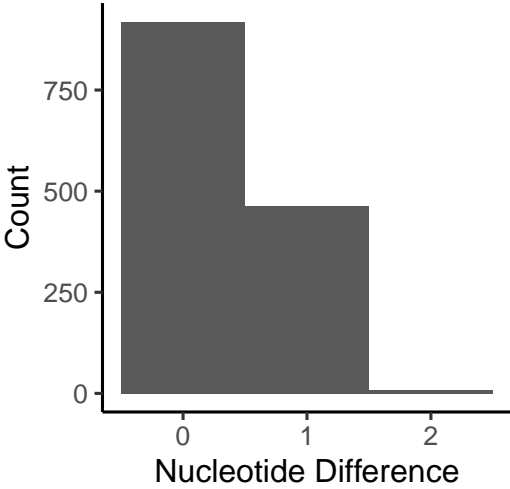
TRBV7-6\*ap01

3308 sequences assigned  
3268 (98.8%) exact matches, in which:  
3185 unique CDR3  
13 unique J



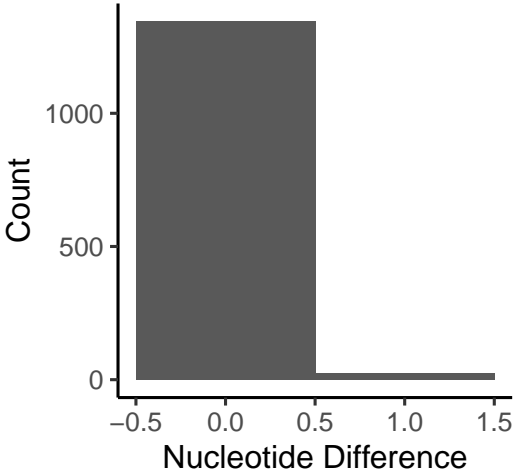
TRBV7-8\*ap03

1391 sequences assigned  
919 (66.1%) exact matches, in which:  
892 unique CDR3  
13 unique J



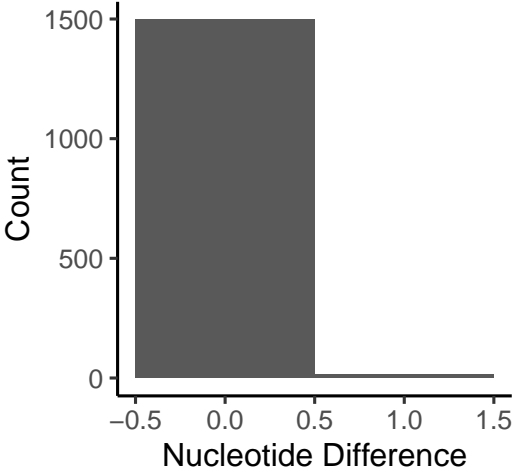
TRBV29-1\*ap02

1368 sequences assigned  
1345 (98.3%) exact matches, in which:  
1311 unique CDR3  
13 unique J



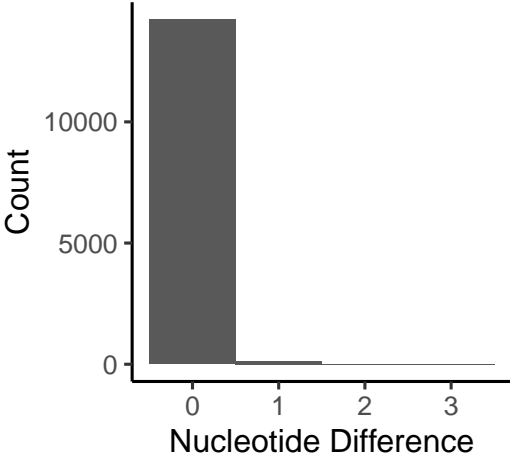
TRBV7-7\*ap01\_C315T

1510 sequences assigned  
1497 (99.1%) exact matches, in which:  
1468 unique CDR3  
13 unique J



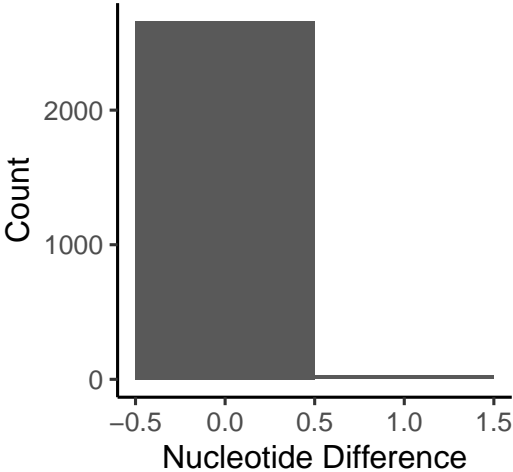
TRBV7-9\*ap01

14356 sequences assigned  
14225 (99.1%) exact matches, in which:  
13986 unique CDR3  
13 unique J



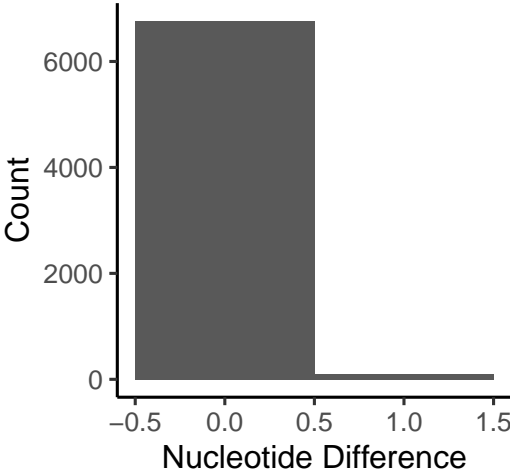
TRBV7-8\*ap01

2690 sequences assigned  
2662 (99%) exact matches, in which:  
2596 unique CDR3  
13 unique J

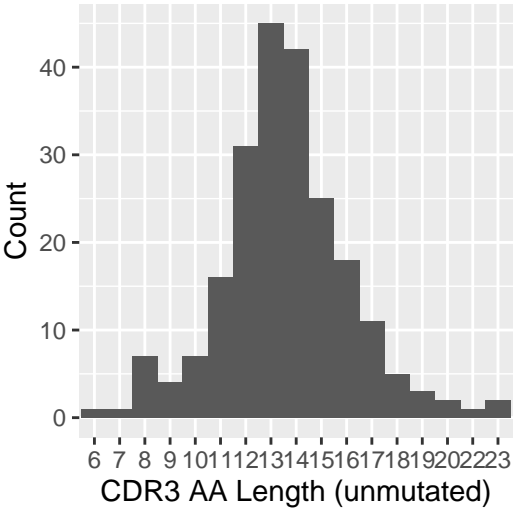


TRBV29-1\*ap01

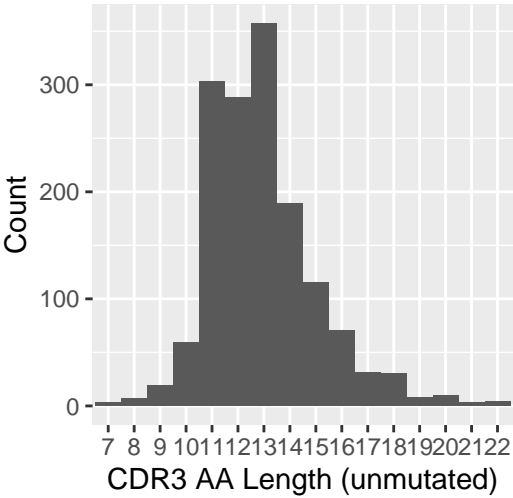
6860 sequences assigned  
6763 (98.6%) exact matches, in which:  
6632 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]