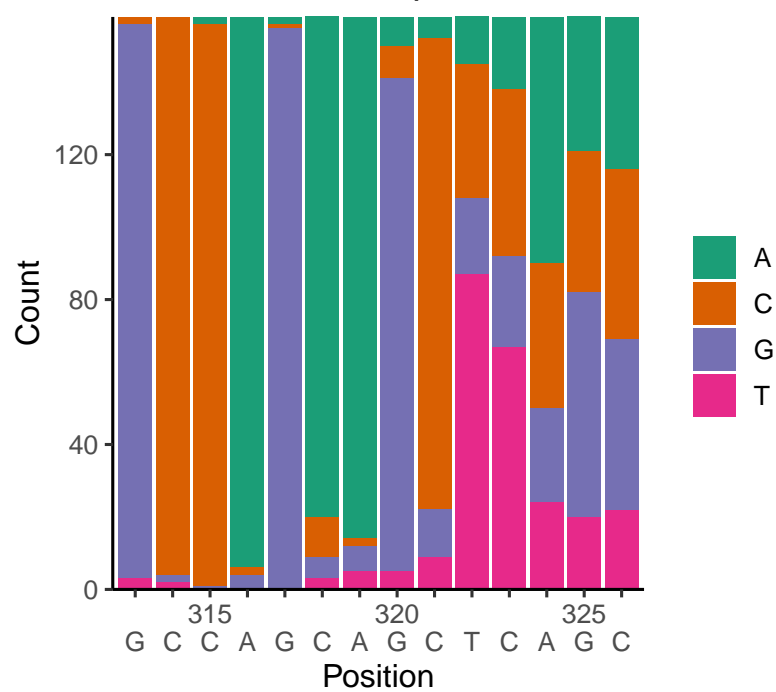
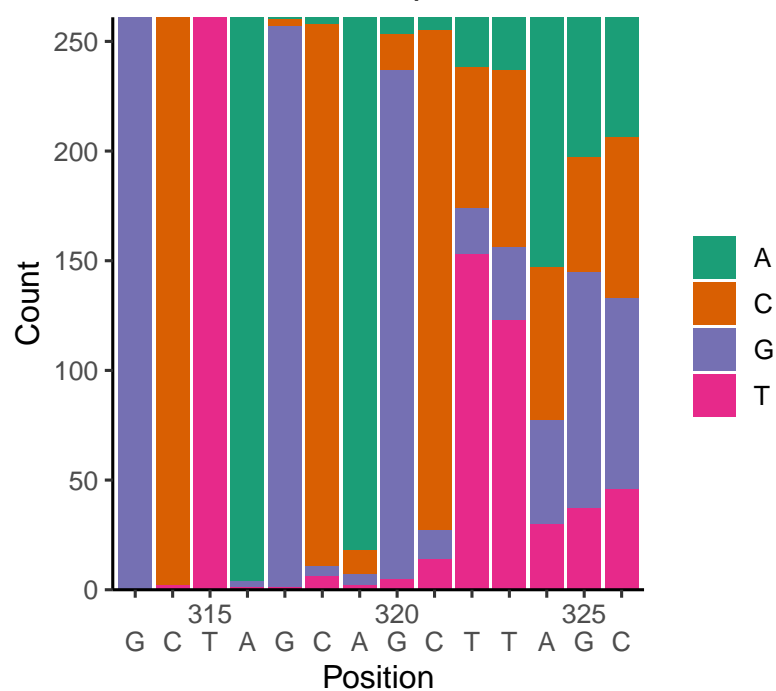


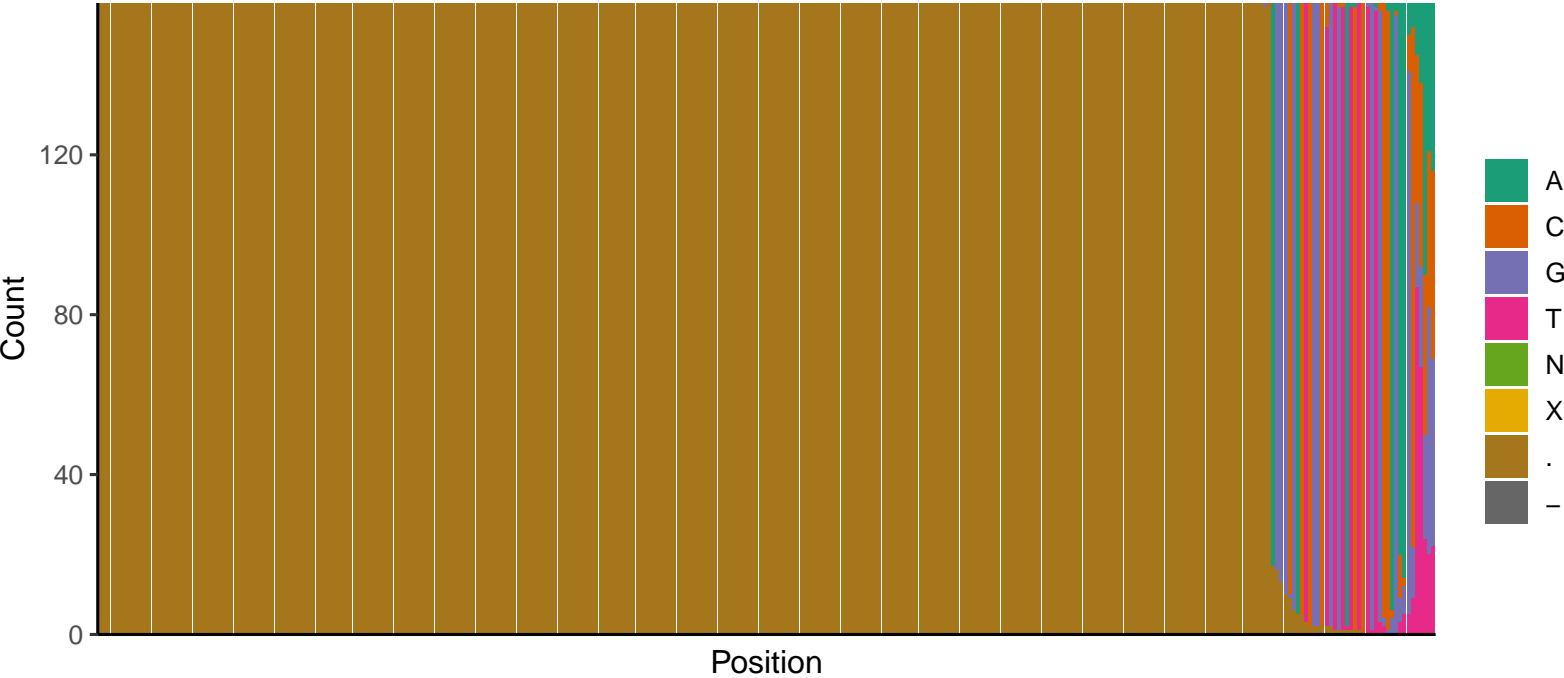
Gene TRBV7-1\*ap01\_G291C\_T296C



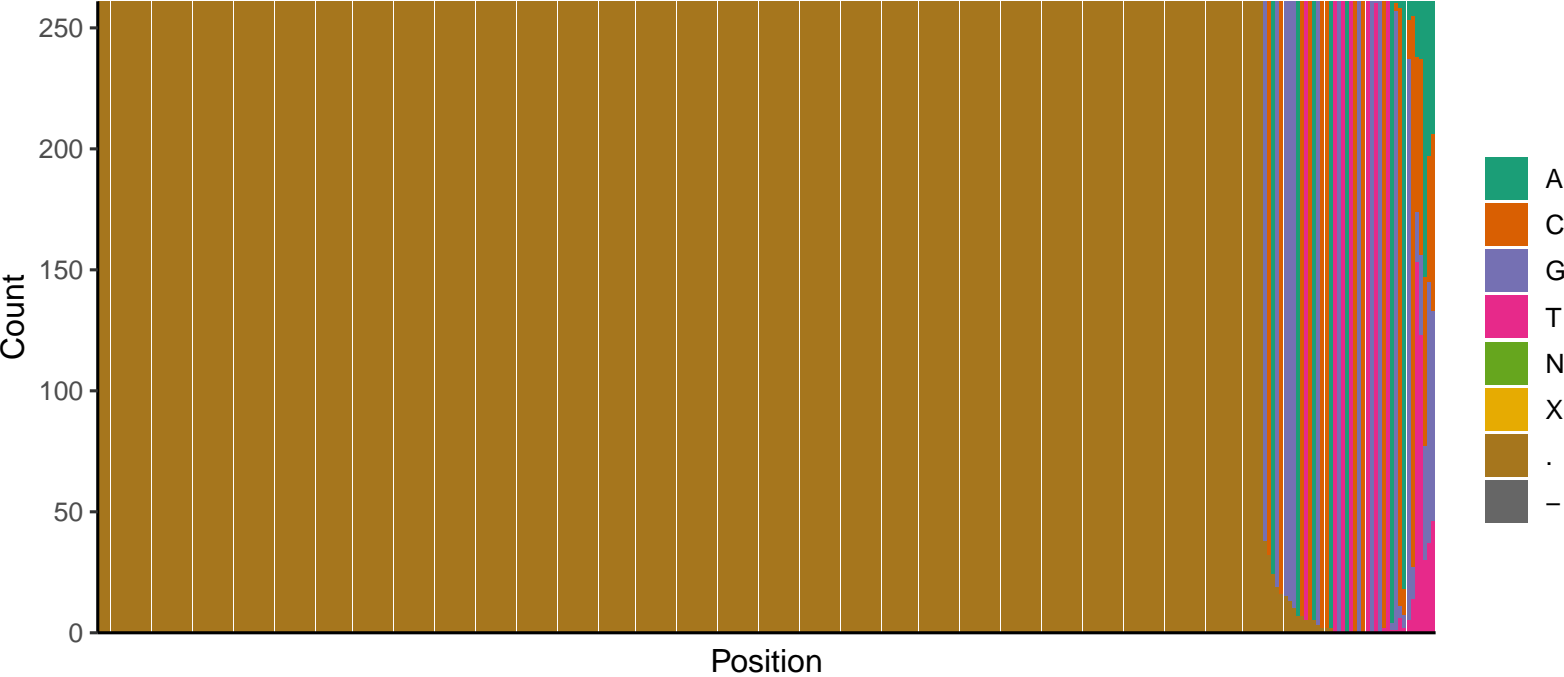
Gene TRBV7-7\*ap01\_C315T



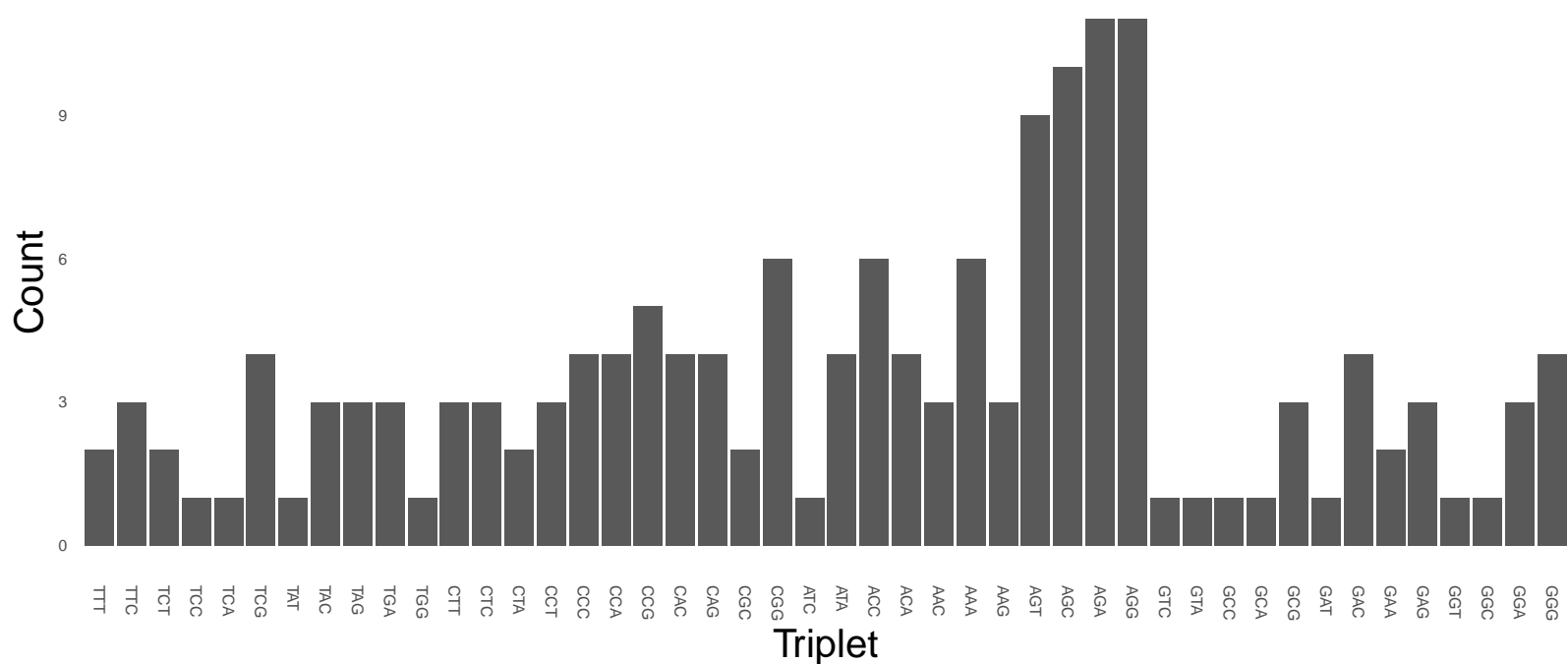
Gene TRBV7-1\*ap01\_G291C\_T296C



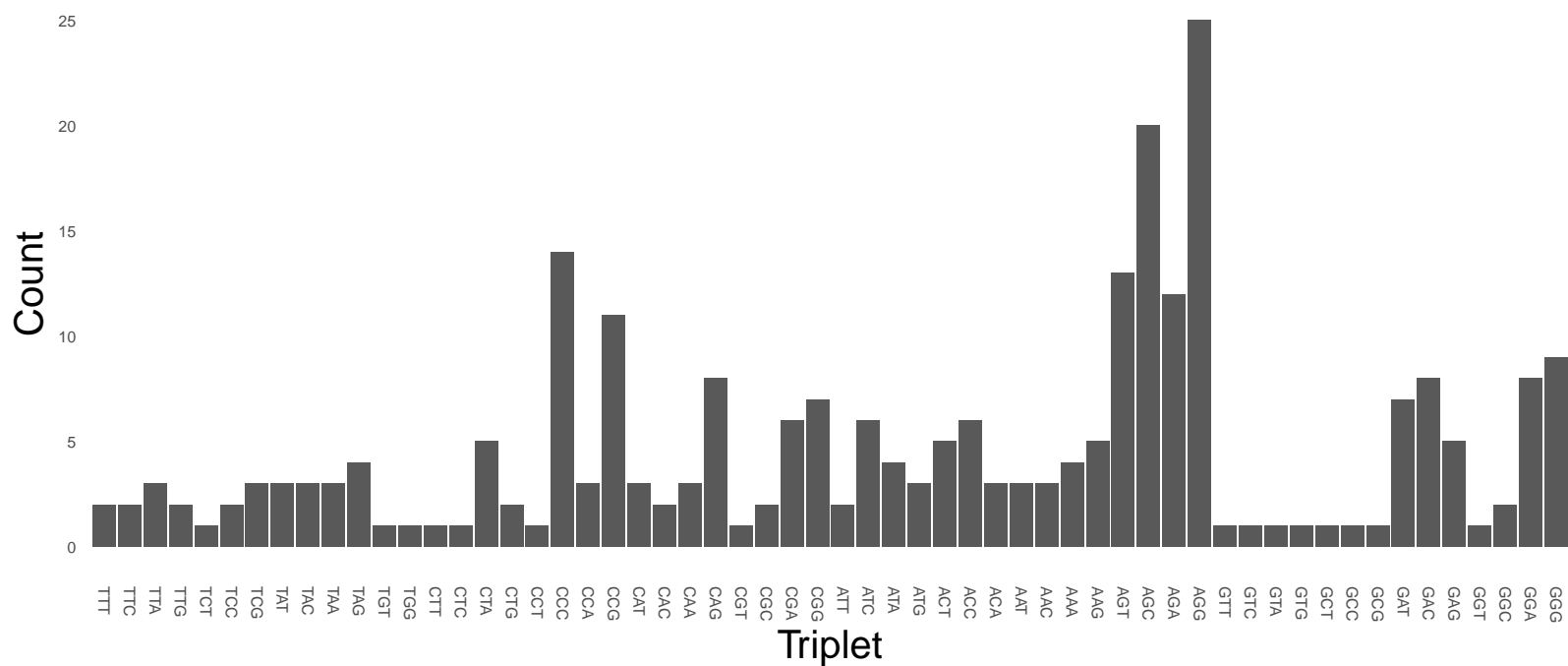
Gene TRBV7-7\*ap01\_C315T



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

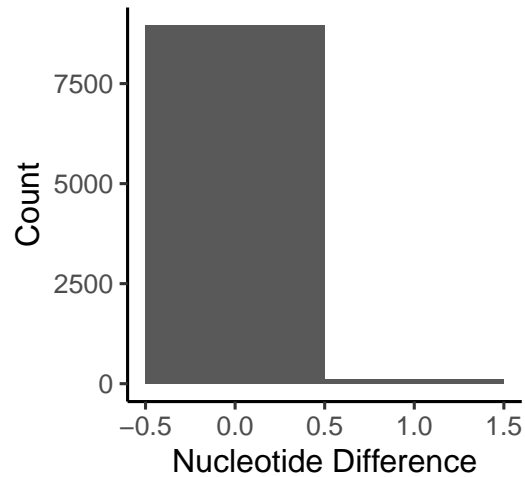


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



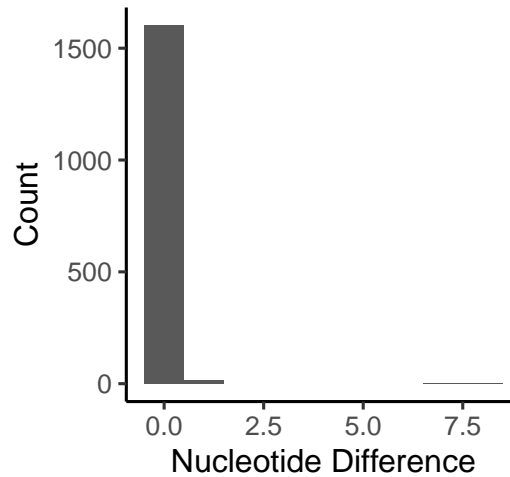
### TRBV20-1\*ap01

9056 sequences assigned  
8954 (98.9%) exact matches, in which:  
8770 unique CDR3  
13 unique J



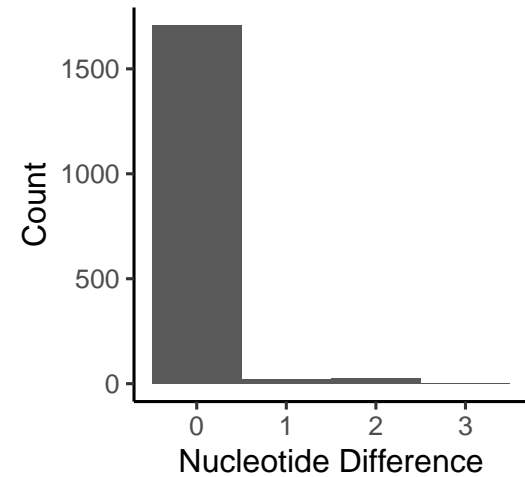
### TRBV10-2\*ap01

1621 sequences assigned  
1602 (98.8%) exact matches, in which:  
1563 unique CDR3  
13 unique J



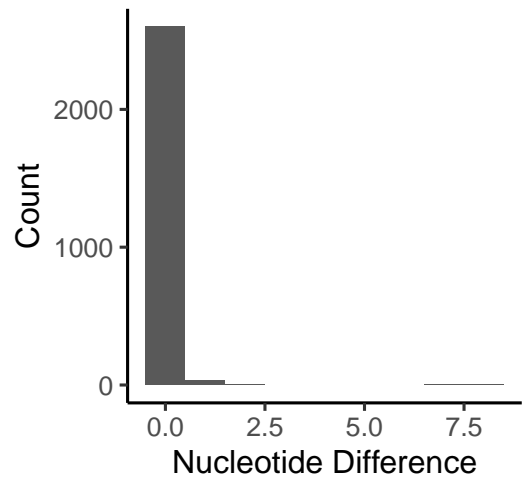
### TRBV13\*ap01

1753 sequences assigned  
1707 (97.4%) exact matches, in which:  
1643 unique CDR3  
13 unique J



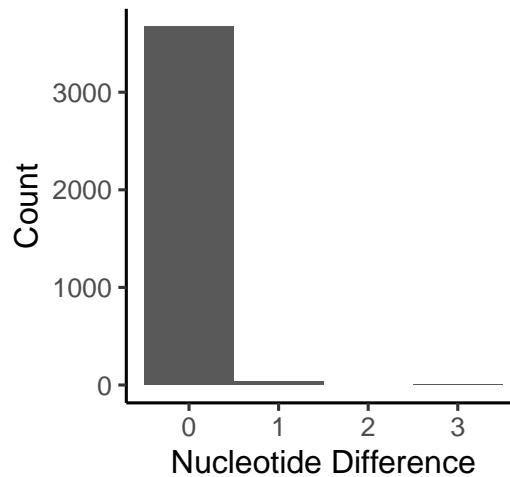
### TRBV10-1\*ap01

2635 sequences assigned  
2600 (98.7%) exact matches, in which:  
2512 unique CDR3  
13 unique J



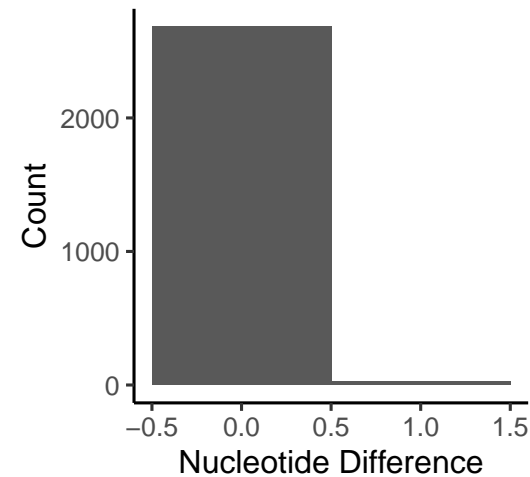
### TRBV10-3\*ap01

3704 sequences assigned  
3671 (99.1%) exact matches, in which:  
3580 unique CDR3  
13 unique J



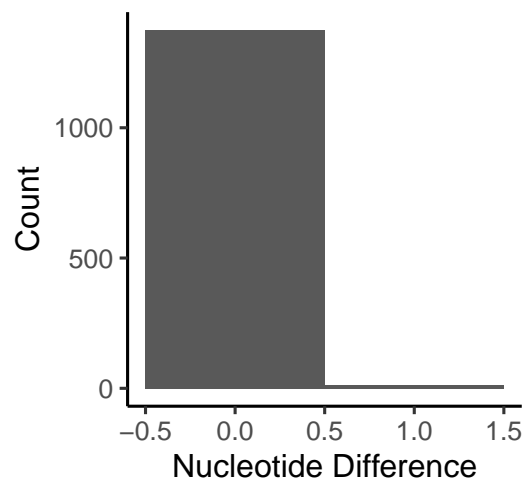
### TRBV14\*ap01

2710 sequences assigned  
2683 (99%) exact matches, in which:  
2636 unique CDR3  
13 unique J



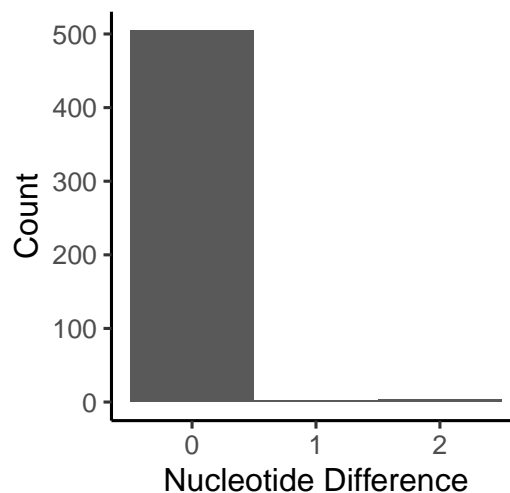
### TRBV20-1\*ap02

1387 sequences assigned  
1375 (99.1%) exact matches, in which:  
1348 unique CDR3  
13 unique J



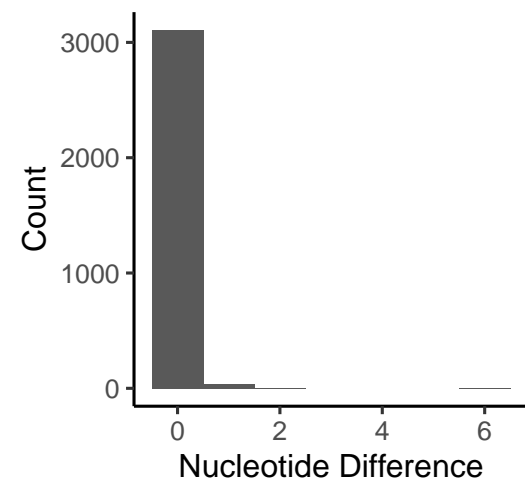
### TRBV1\*ap01

510 sequences assigned  
505 (99%) exact matches, in which:  
486 unique CDR3  
13 unique J



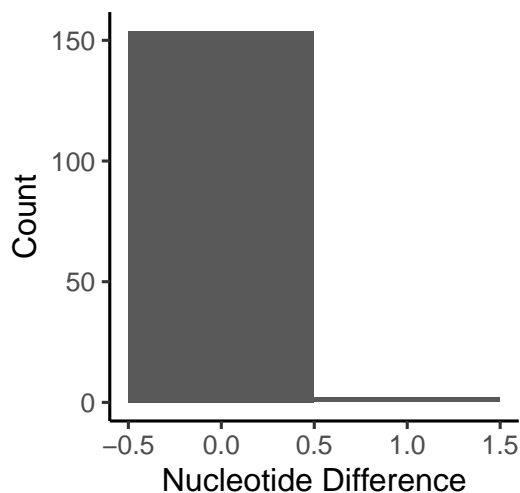
### TRBV15\*ap02

3145 sequences assigned  
3107 (98.8%) exact matches, in which:  
3025 unique CDR3  
13 unique J



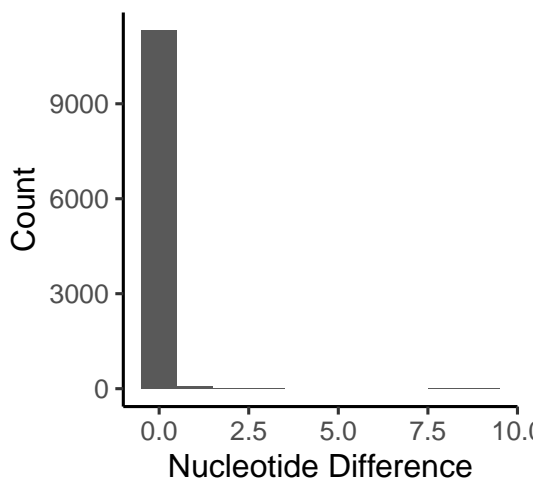
### TRBV16\*ap01

156 sequences assigned  
154 (98.7%) exact matches, in which:  
153 unique CDR3  
13 unique J



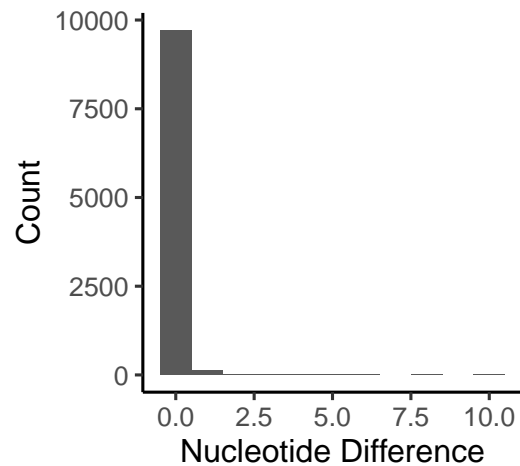
### TRBV19\*ap01

11413 sequences assigned  
11317 (99.2%) exact matches, in which:  
11208 unique CDR3  
13 unique J



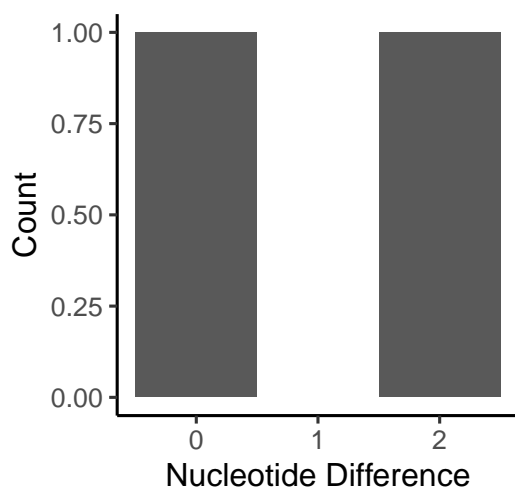
### TRBV27\*ap01

9847 sequences assigned  
9715 (98.7%) exact matches, in which:  
9392 unique CDR3  
13 unique J



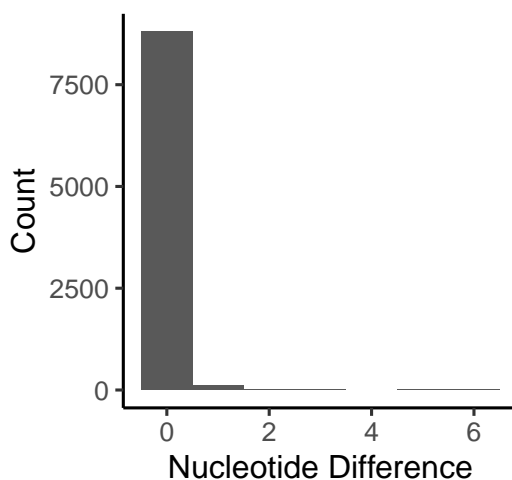
### TRBV17\*ap01

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



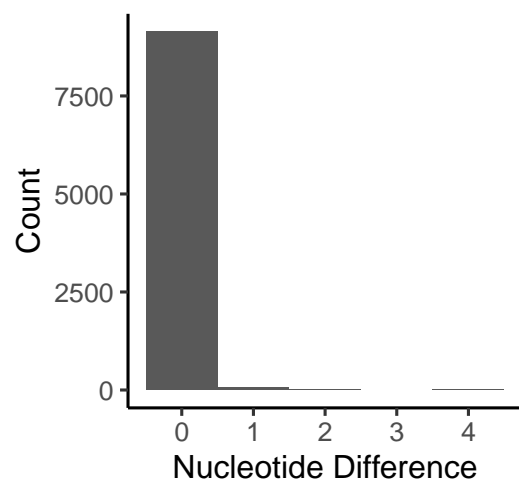
### TRBV2\*ap01

8932 sequences assigned  
8801 (98.5%) exact matches, in which:  
8558 unique CDR3  
13 unique J



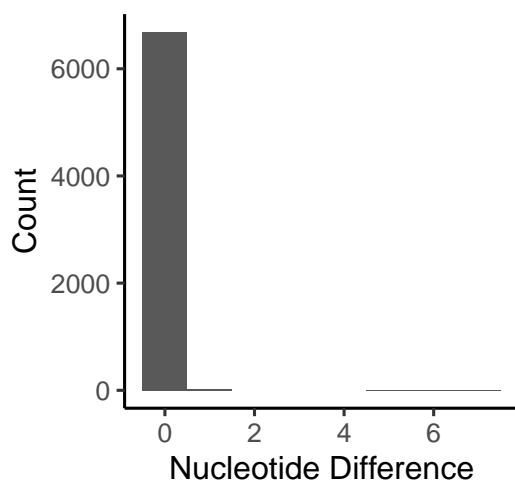
### TRBV28\*ap01

9207 sequences assigned  
9138 (99.3%) exact matches, in which:  
8968 unique CDR3  
13 unique J



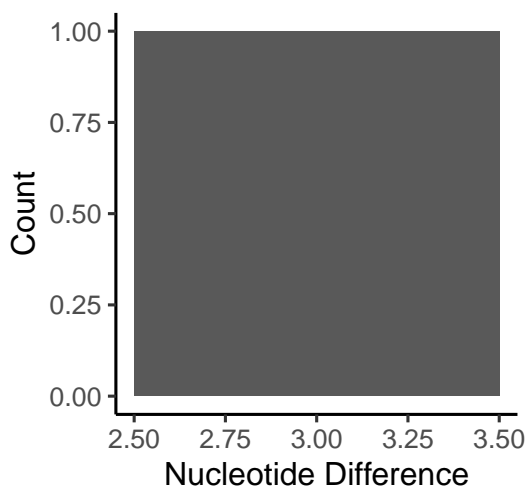
### TRBV18\*ap01

6715 sequences assigned  
6685 (99.6%) exact matches, in which:  
6622 unique CDR3  
13 unique J



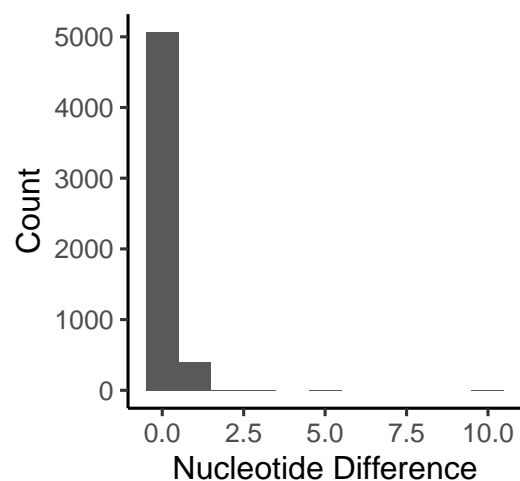
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



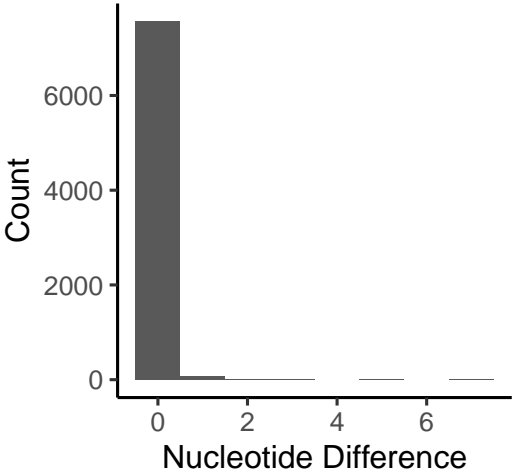
### TRBV30\*ap01

5473 sequences assigned  
5067 (92.6%) exact matches, in which:  
4962 unique CDR3  
13 unique J



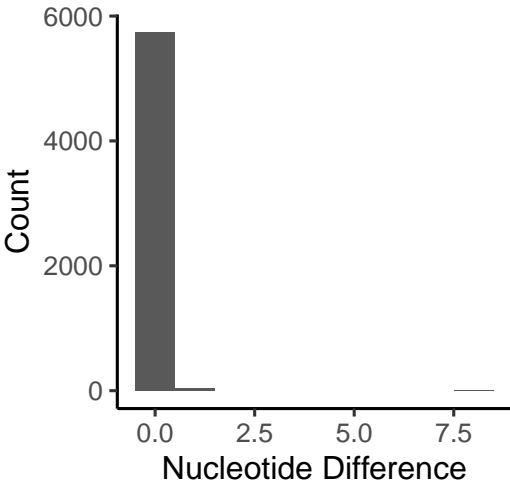
TRBV9\*ap01

7638 sequences assigned  
7564 (99%) exact matches, in which:  
7428 unique CDR3  
13 unique J



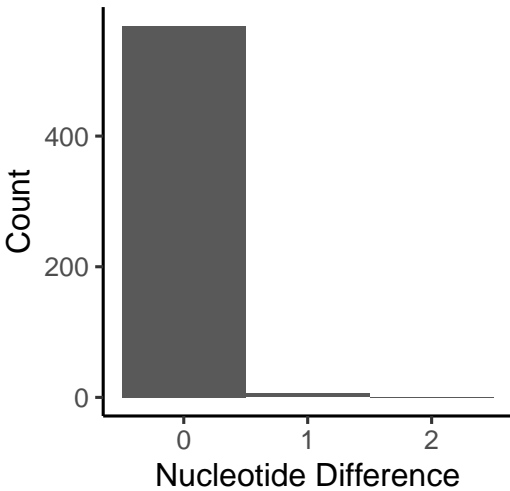
TRBV11-2\*ap01

5773 sequences assigned  
5738 (99.4%) exact matches, in which:  
5623 unique CDR3  
13 unique J



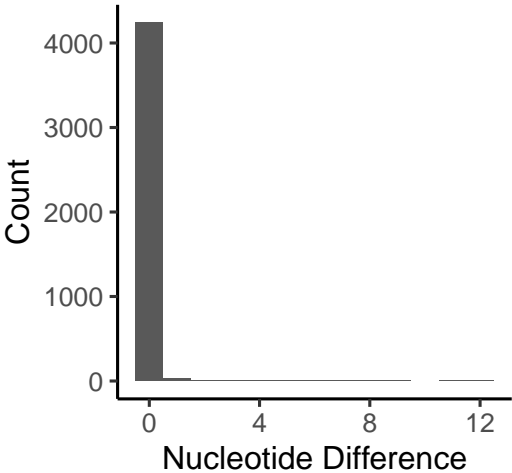
TRBV12-2\*ap01

576 sequences assigned  
569 (98.8%) exact matches, in which:  
559 unique CDR3  
13 unique J



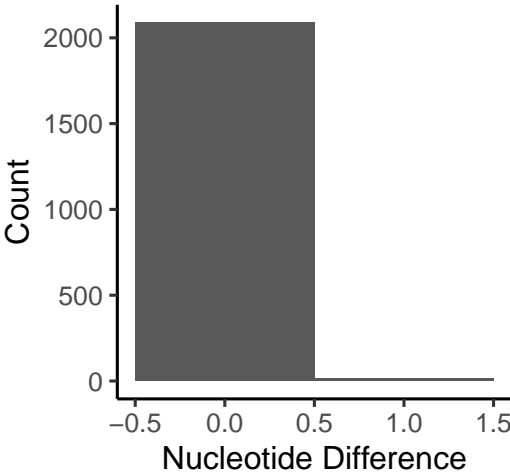
TRBV21-1\*ap01

4293 sequences assigned  
4240 (98.8%) exact matches, in which:  
4191 unique CDR3  
14 unique J



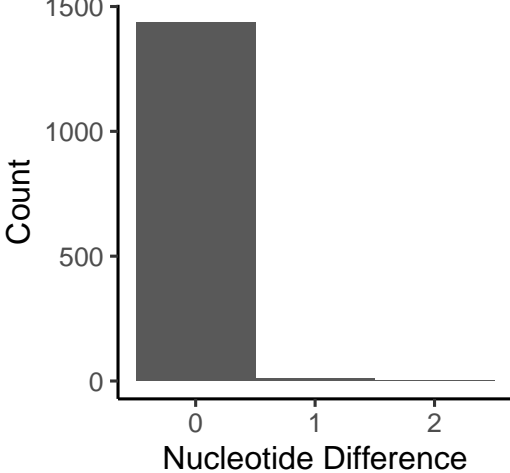
TRBV11-3\*ap01

2103 sequences assigned  
2088 (99.3%) exact matches, in which:  
2066 unique CDR3  
13 unique J



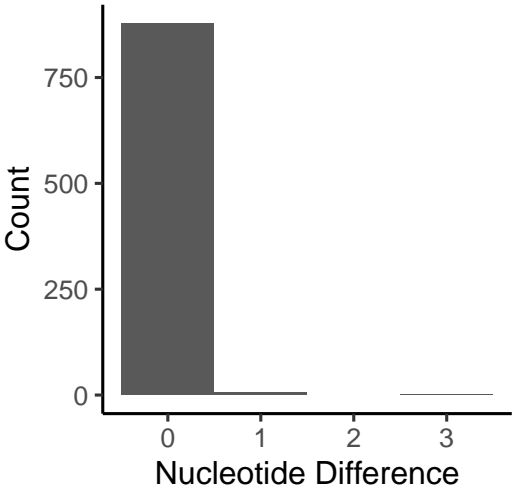
TRBV12-5\*ap01

1449 sequences assigned  
1435 (99%) exact matches, in which:  
1406 unique CDR3  
13 unique J



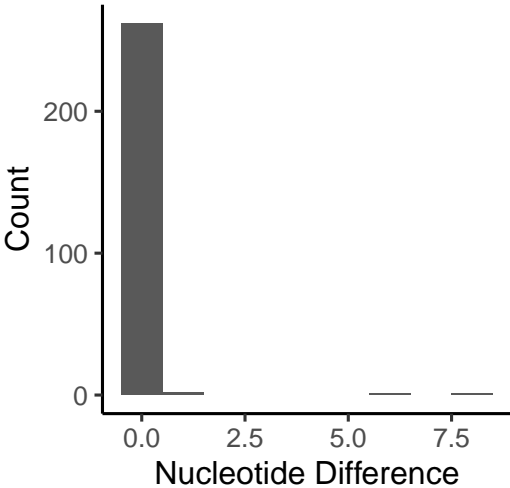
TRBV11-1\*ap01

885 sequences assigned  
878 (99.2%) exact matches, in which:  
864 unique CDR3  
13 unique J



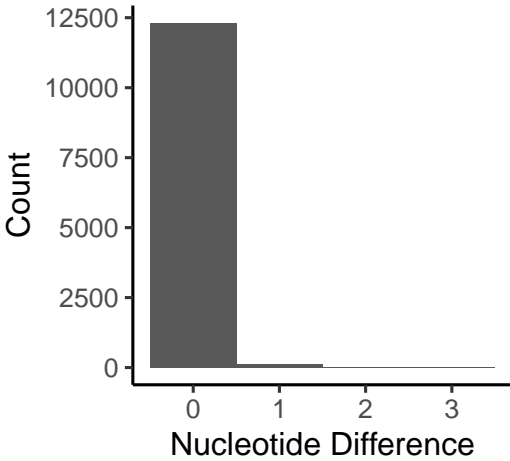
TRBV12-1\*ap01

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



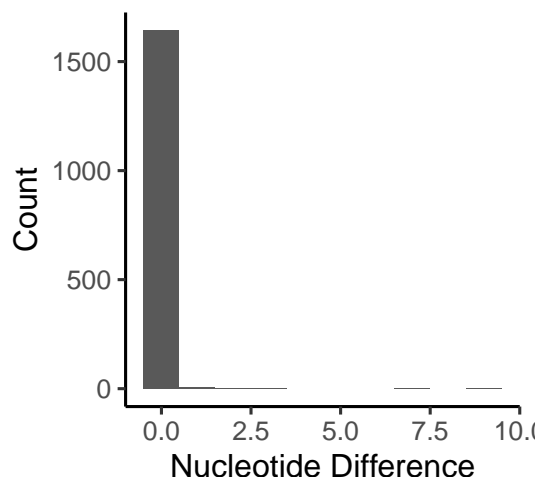
TRBV12-34\*ap01

12437 sequences assigned  
12318 (99%) exact matches, in which:  
12063 unique CDR3  
13 unique J



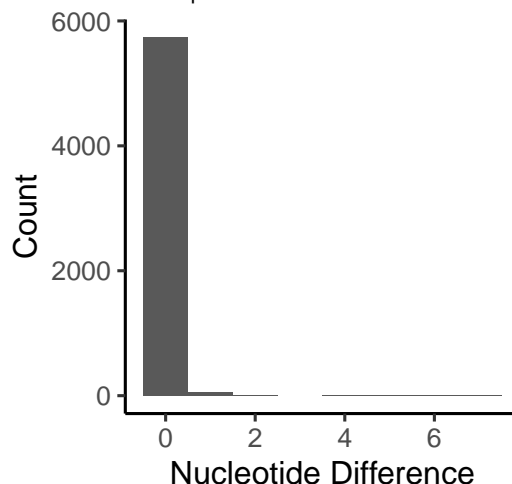
### TRBV23-1\*ap01

1659 sequences assigned  
1643 (99%) exact matches, in which:  
1620 unique CDR3  
13 unique J



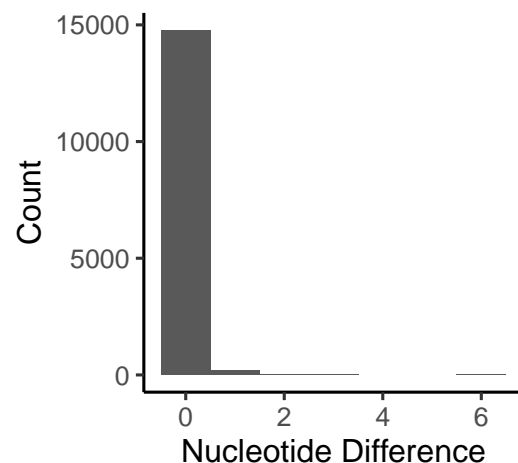
### TRBV4-1\*ap01

5800 sequences assigned  
5736 (98.9%) exact matches, in which:  
5561 unique CDR3  
13 unique J



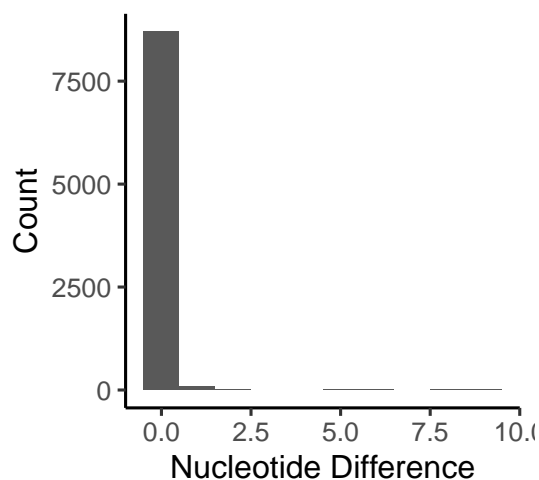
### TRBV5-1\*ap01

14953 sequences assigned  
14774 (98.8%) exact matches, in which:  
14305 unique CDR3  
13 unique J



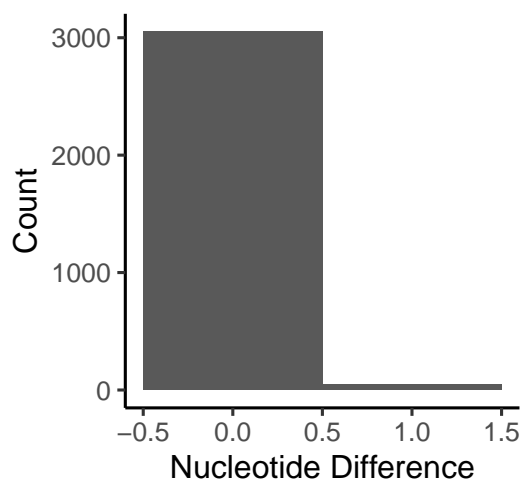
### TRBV3-12\*ap01

8796 sequences assigned  
8700 (98.9%) exact matches, in which:  
8479 unique CDR3  
13 unique J



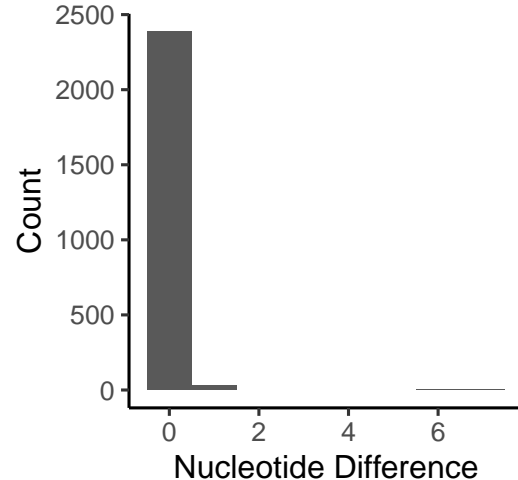
### TRBV4-2\*ap01

3096 sequences assigned  
3051 (98.5%) exact matches, in which:  
2949 unique CDR3  
13 unique J



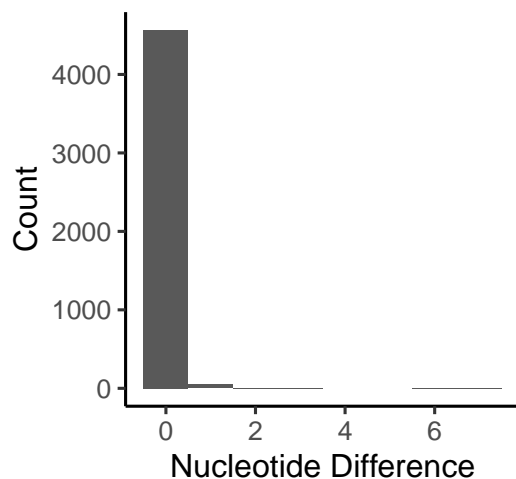
### TRBV25-1\*ap01

2418 sequences assigned  
2386 (98.7%) exact matches, in which:  
2317 unique CDR3  
13 unique J



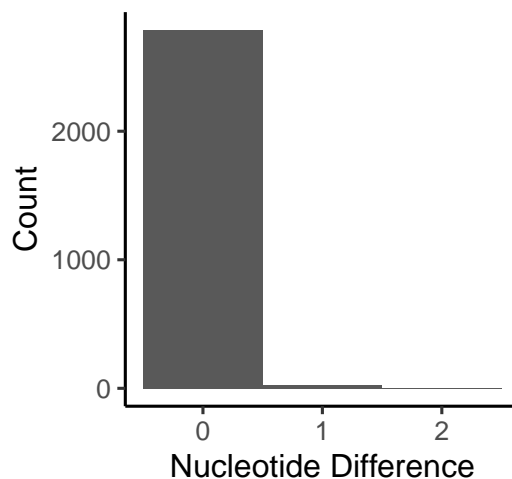
### TRBV24-1\*ap01

4627 sequences assigned  
4566 (98.7%) exact matches, in which:  
4451 unique CDR3  
13 unique J



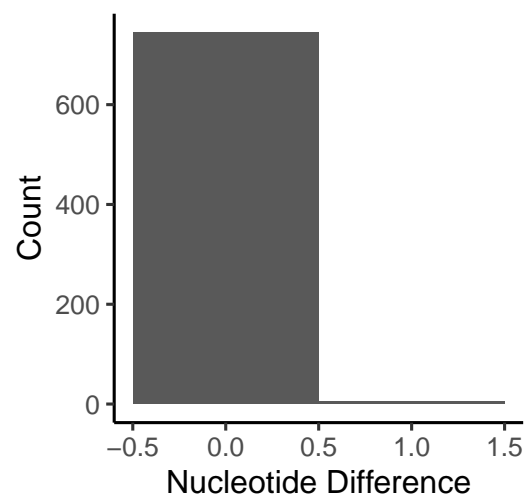
### TRBV4-3\*ap01

2813 sequences assigned  
2787 (99.1%) exact matches, in which:  
2689 unique CDR3  
13 unique J



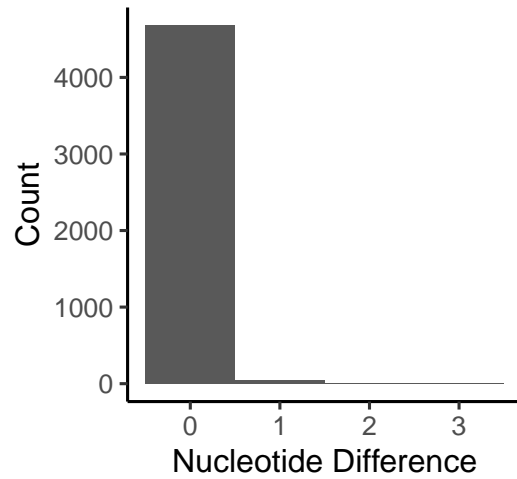
### TRBV5-3\*ap01

750 sequences assigned  
745 (99.3%) exact matches, in which:  
734 unique CDR3  
13 unique J



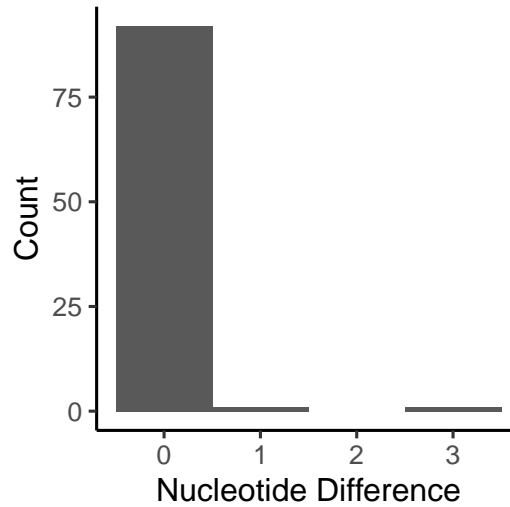
### TRBV5-4\*ap01

4736 sequences assigned  
4679 (98.8%) exact matches, in which:  
4555 unique CDR3  
13 unique J



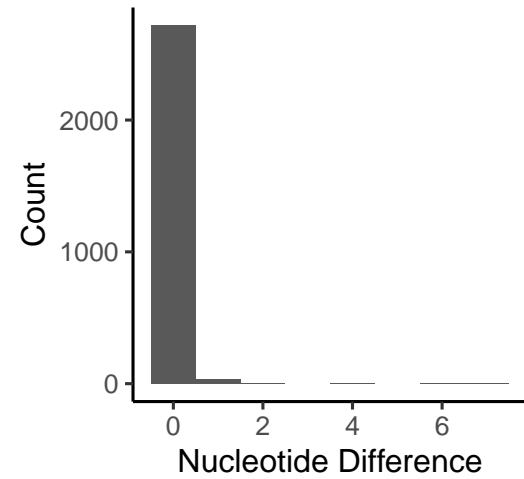
### TRBV5-7\*ap01

94 sequences assigned  
92 (97.9%) exact matches, in which:  
89 unique CDR3  
13 unique J



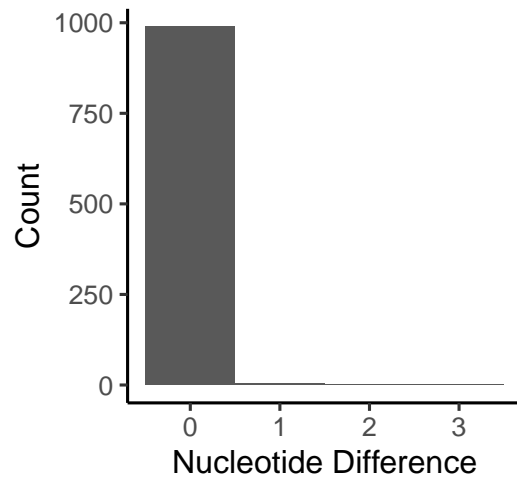
### TRBV6-4\*ap01

2762 sequences assigned  
2718 (98.4%) exact matches, in which:  
2677 unique CDR3  
13 unique J



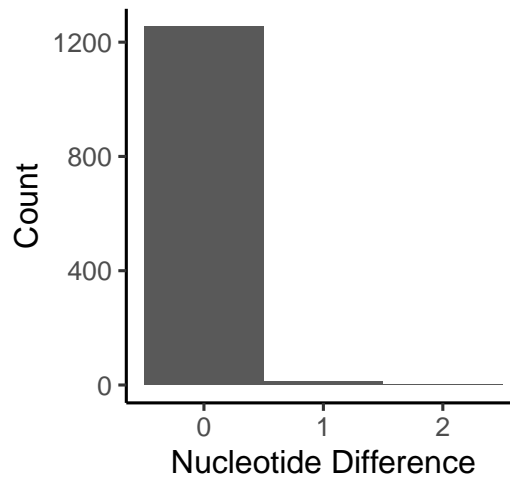
### TRBV5-5\*ap01

994 sequences assigned  
989 (99.5%) exact matches, in which:  
979 unique CDR3  
13 unique J



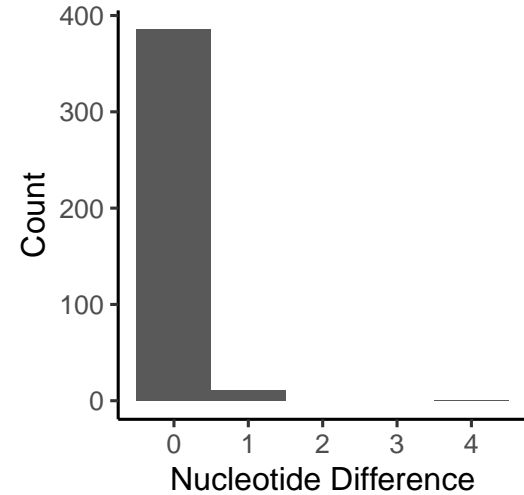
### TRBV5-8\*ap01

1267 sequences assigned  
1254 (99%) exact matches, in which:  
1235 unique CDR3  
13 unique J



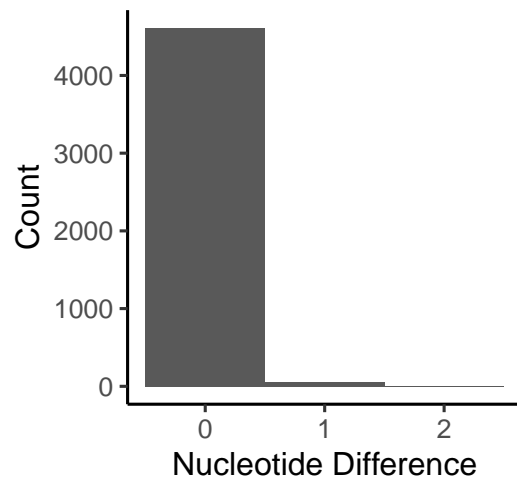
### TRBV6-7\*ap01

398 sequences assigned  
386 (97%) exact matches, in which:  
372 unique CDR3  
13 unique J



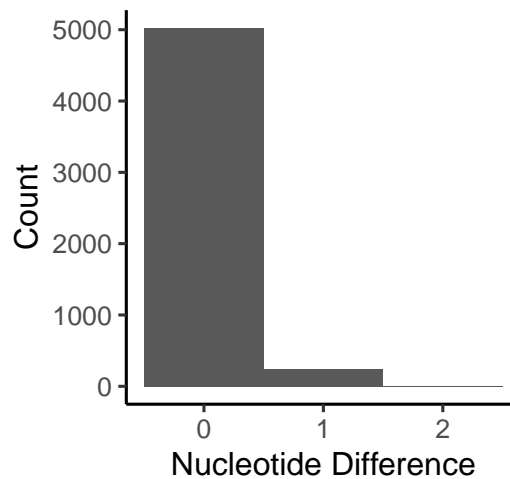
### TRBV5-6\*ap01

4671 sequences assigned  
4610 (98.7%) exact matches, in which:  
4442 unique CDR3  
13 unique J



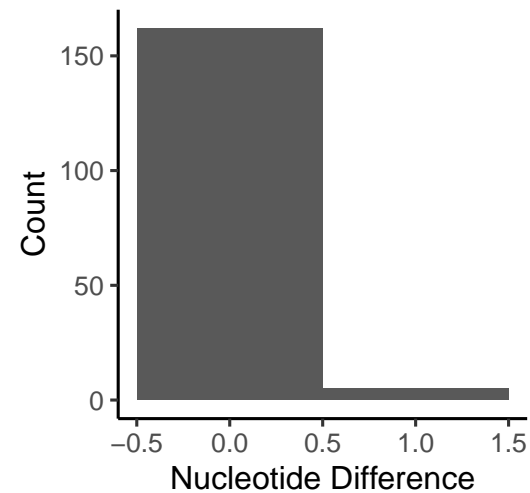
### TRBV6-1\*ap01

5264 sequences assigned  
5023 (95.4%) exact matches, in which:  
4867 unique CDR3  
13 unique J



### TRBV6-8\*ap01

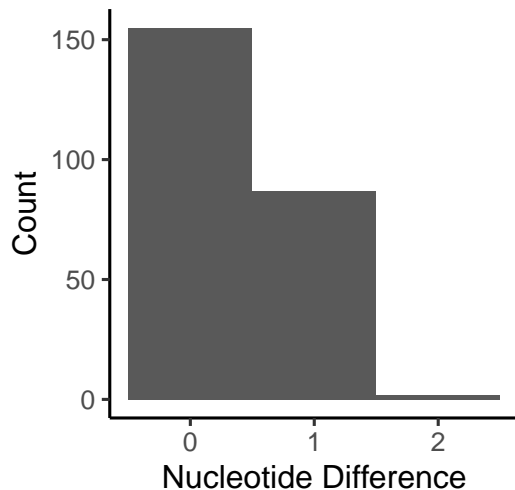
167 sequences assigned  
162 (97%) exact matches, in which:  
155 unique CDR3  
12 unique J





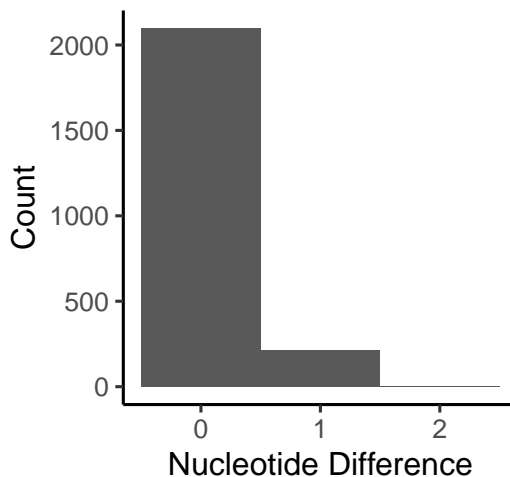
### TRBV6-9\*ap01

244 sequences assigned  
155 (63.5%) exact matches, in which:  
148 unique CDR3  
13 unique J



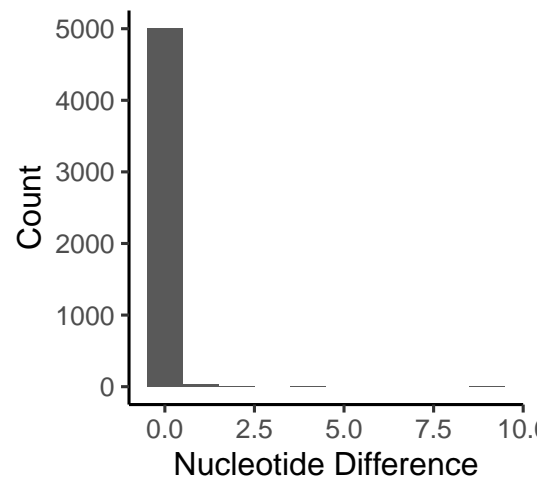
### TRBV6-56\*ap02

2316 sequences assigned  
2097 (90.5%) exact matches, in which:  
2020 unique CDR3  
13 unique J



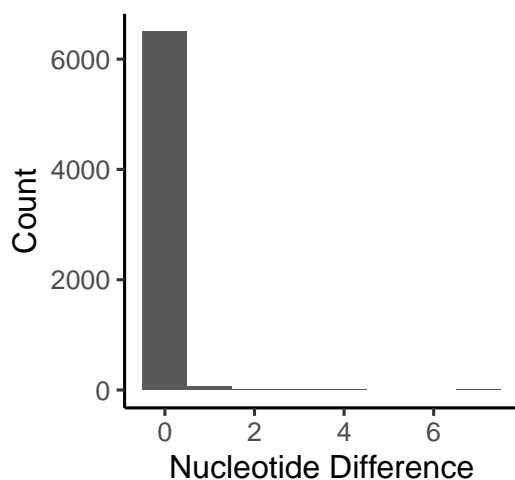
### TRBV7-3\*ap01

5048 sequences assigned  
5004 (99.1%) exact matches, in which:  
4947 unique CDR3  
13 unique J



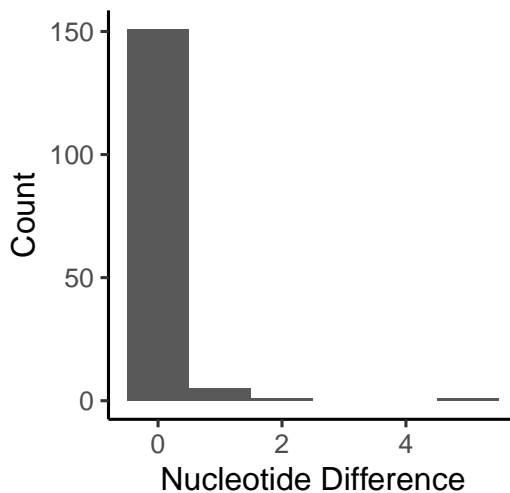
### TRBV6-23\*ap01

6574 sequences assigned  
6497 (98.8%) exact matches, in which:  
6258 unique CDR3  
13 unique J



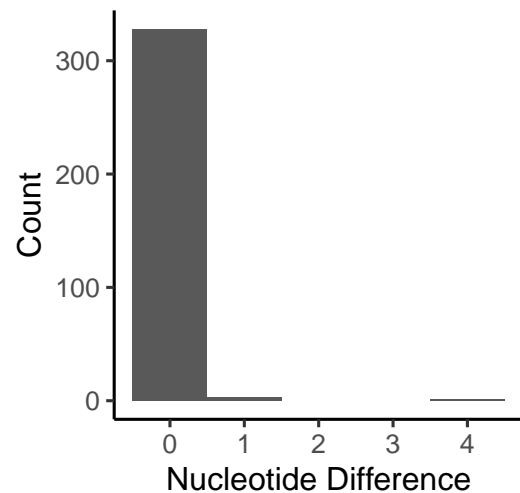
### TRBV7-1\*ap01\_G291C\_

158 sequences assigned  
151 (95.6%) exact matches, in which:  
151 unique CDR3  
13 unique J



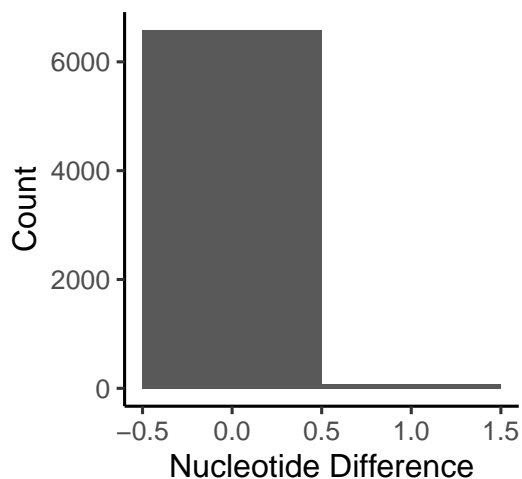
### TRBV7-4\*ap01

332 sequences assigned  
328 (98.8%) exact matches, in which:  
317 unique CDR3  
13 unique J



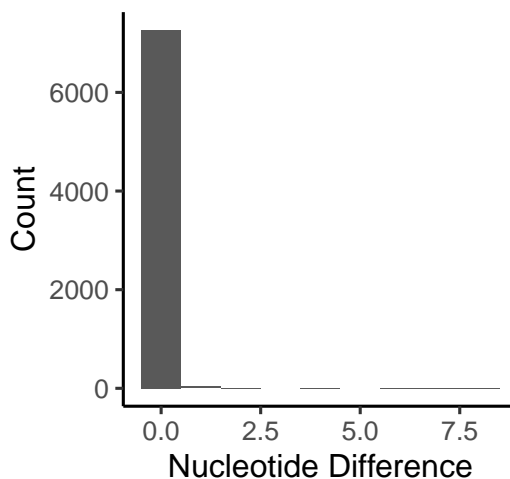
### TRBV6-56\*ap01

6668 sequences assigned  
6584 (98.7%) exact matches, in which:  
6391 unique CDR3  
13 unique J



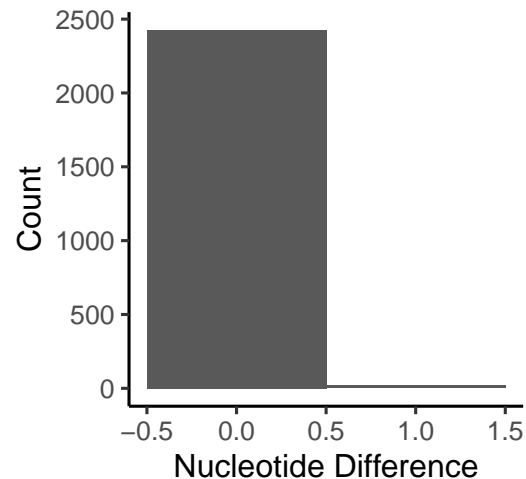
### TRBV7-2\*ap01

7311 sequences assigned  
7264 (99.4%) exact matches, in which:  
7132 unique CDR3  
14 unique J



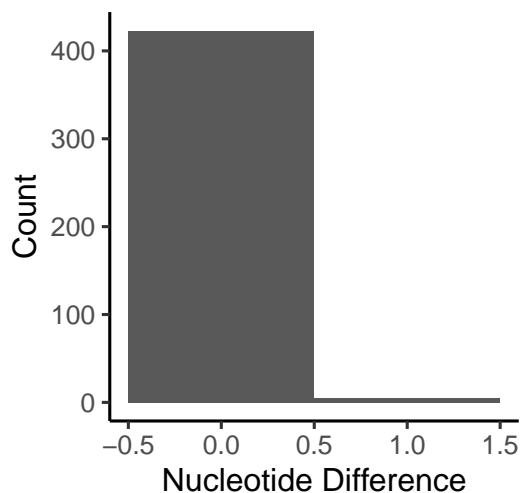
### TRBV7-6\*ap01

2444 sequences assigned  
2426 (99.3%) exact matches, in which:  
2376 unique CDR3  
13 unique J



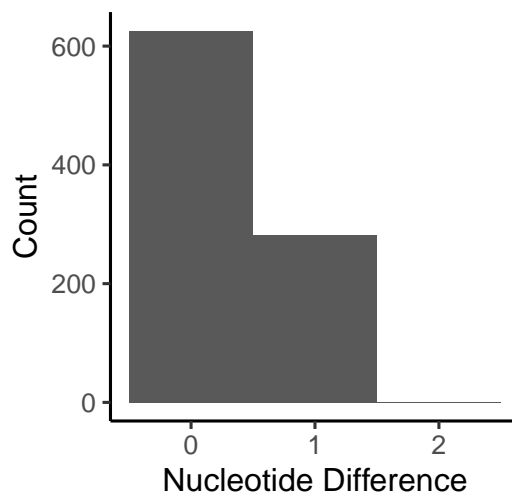
### TRBV7-7\*ap01

428 sequences assigned  
423 (98.8%) exact matches, in which:  
416 unique CDR3  
13 unique J



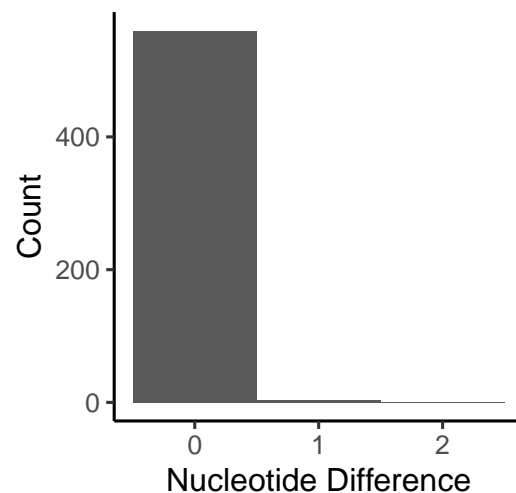
### TRBV7-8\*ap03

909 sequences assigned  
626 (68.9%) exact matches, in which:  
607 unique CDR3  
13 unique J



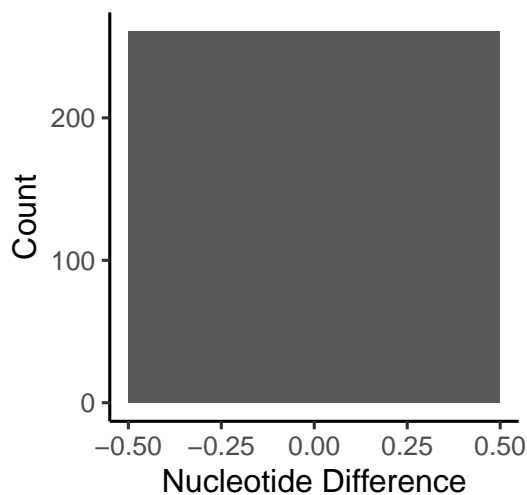
### TRBV29-1\*ap02

565 sequences assigned  
560 (99.1%) exact matches, in which:  
540 unique CDR3  
13 unique J



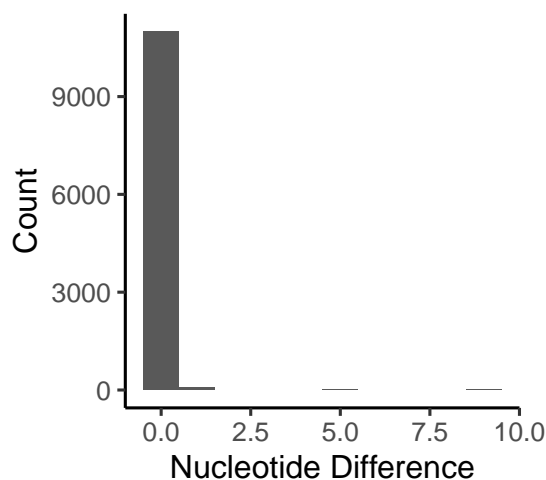
### TRBV7-7\*ap01\_C315T

261 sequences assigned  
261 (100%) exact matches, in which:  
253 unique CDR3  
13 unique J



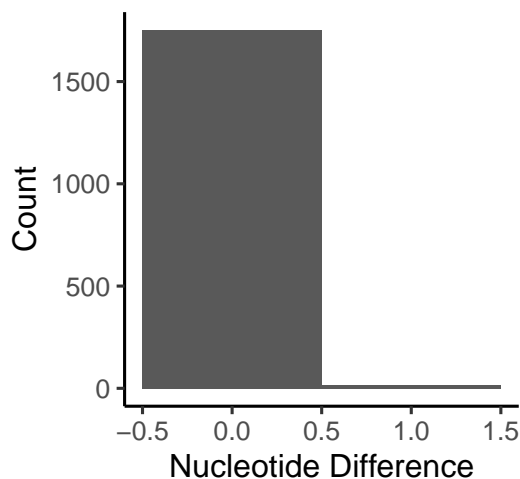
### TRBV7-9\*ap01

11077 sequences assigned  
10989 (99.2%) exact matches, in which:  
10790 unique CDR3  
13 unique J



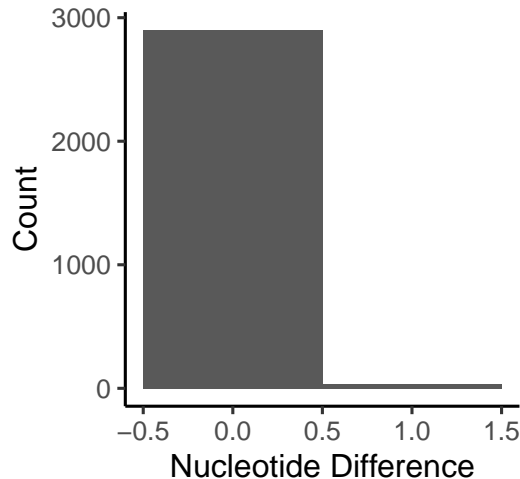
### TRBV7-8\*ap01

1767 sequences assigned  
1752 (99.2%) exact matches, in which:  
1707 unique CDR3  
13 unique J

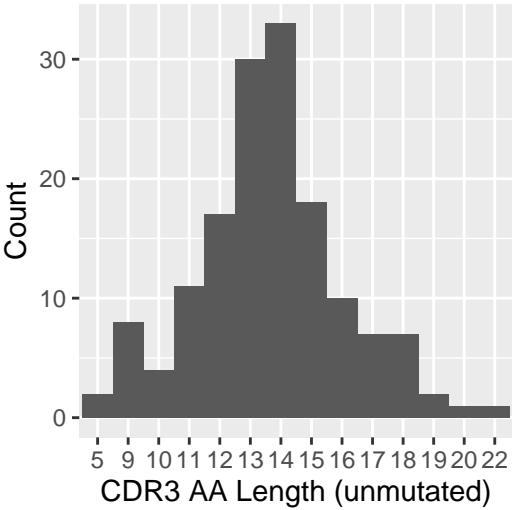


### TRBV29-1\*ap01

2933 sequences assigned  
2900 (98.9%) exact matches, in which:  
2824 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

