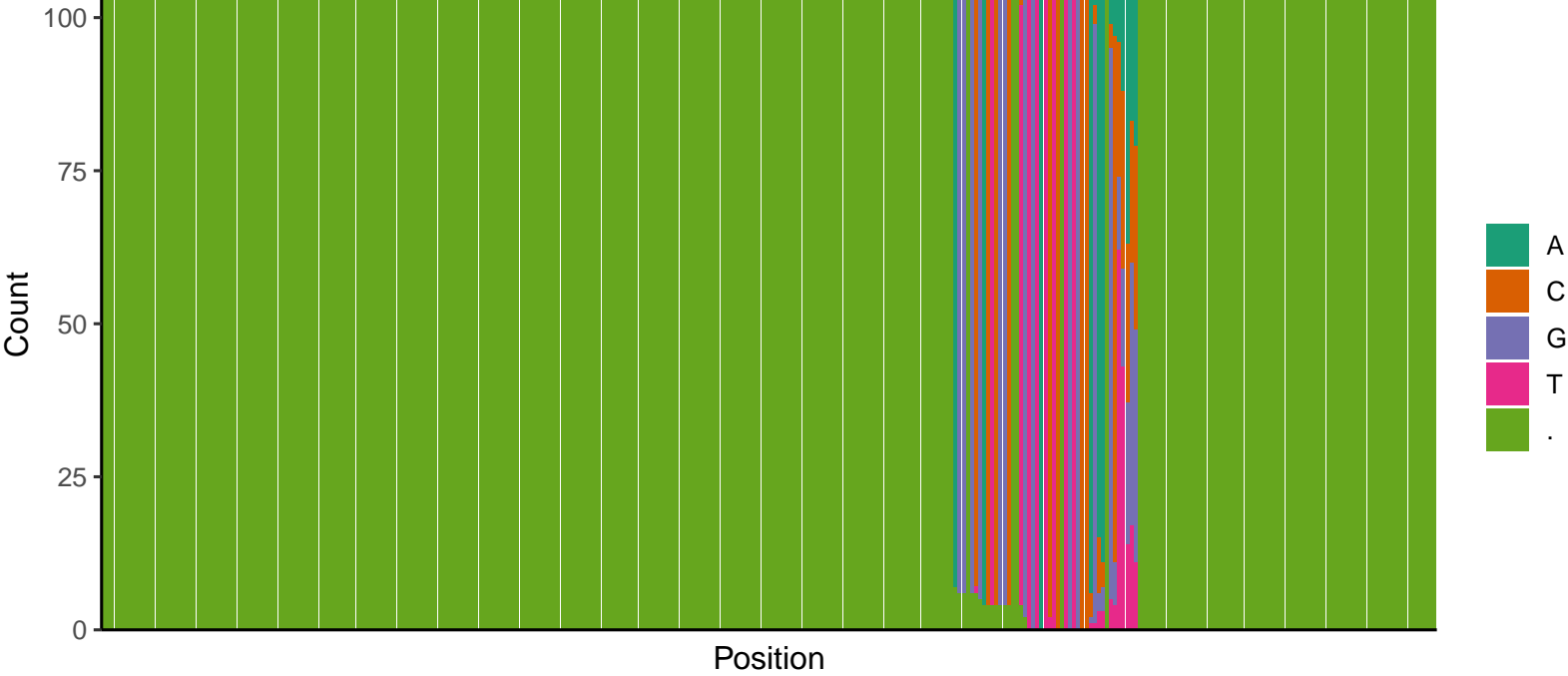




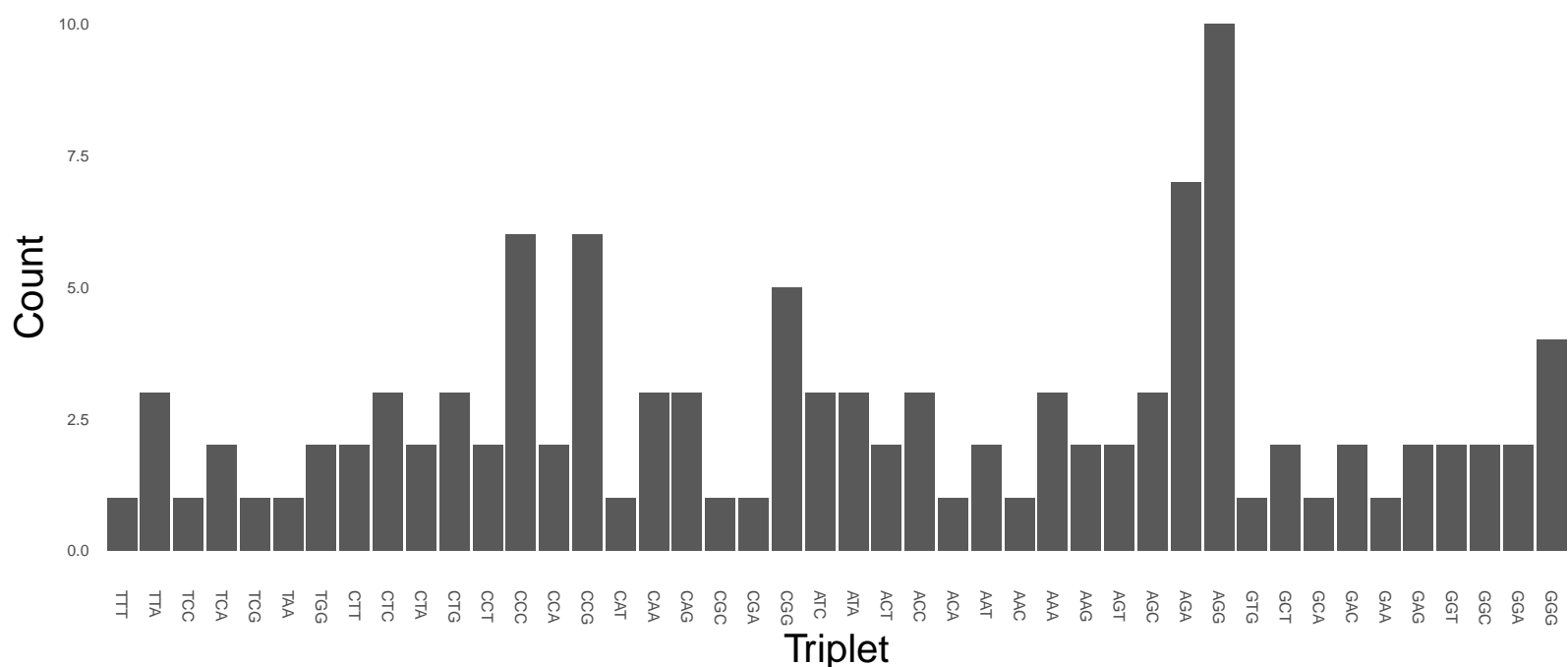
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



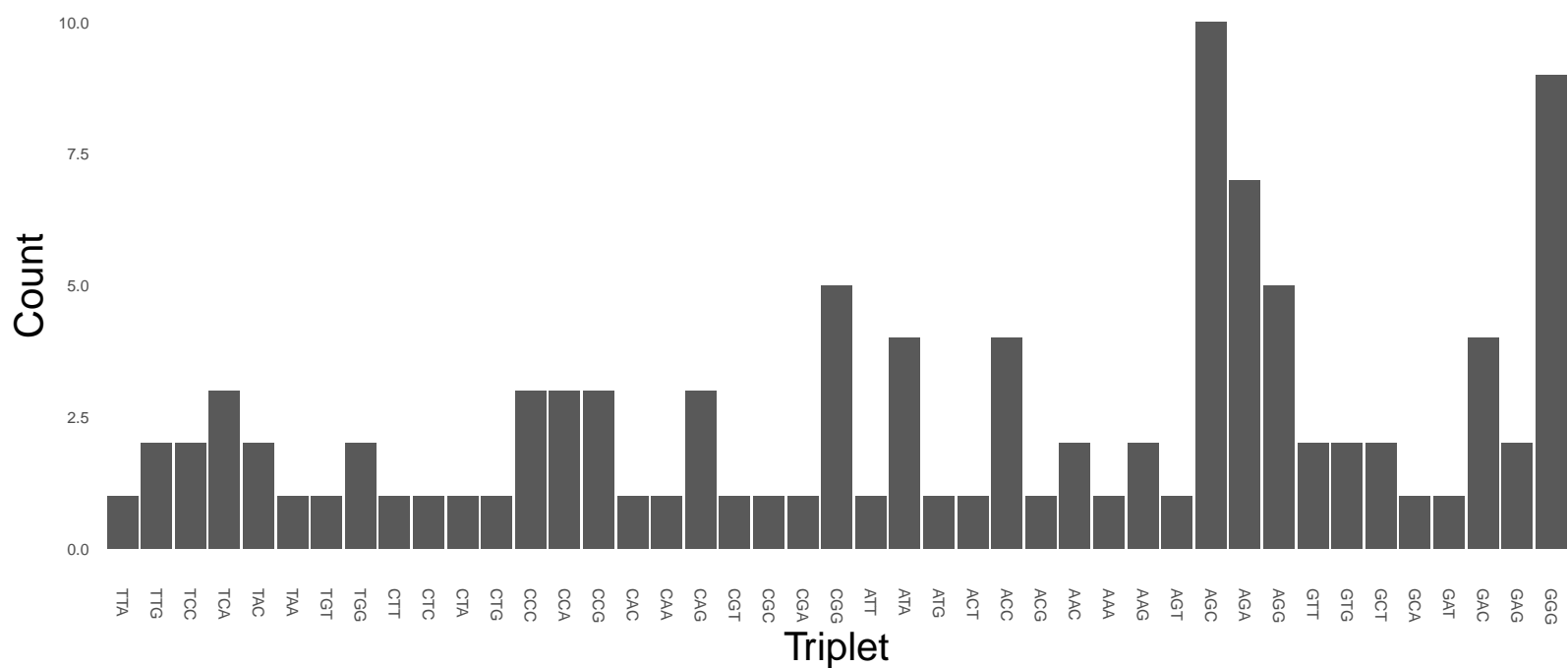
Gene TRBV7-1\*ap01\_G291C\_T296C



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

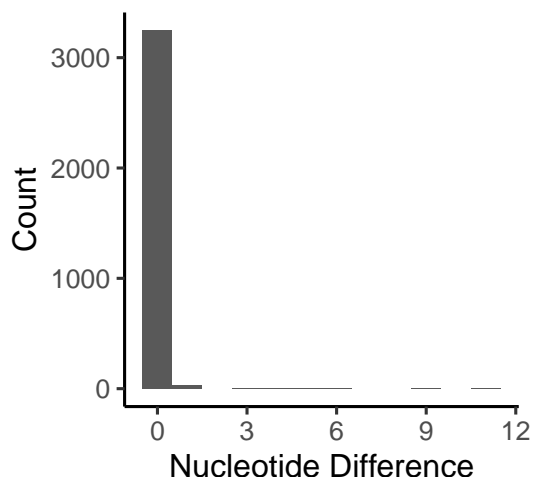


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



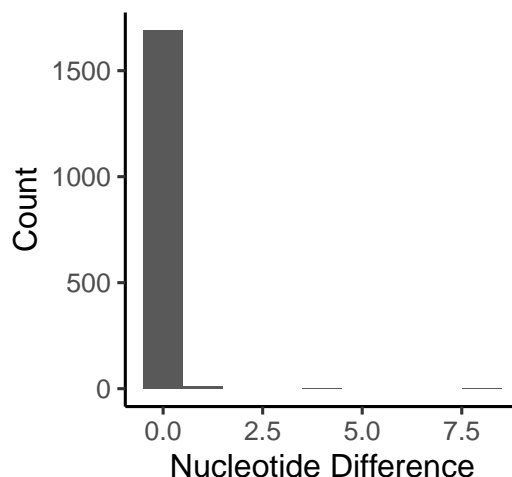
### TRBV10-1\*ap01

3283 sequences assigned  
3247 (98.9%) exact matches, in which:  
3187 unique CDR3  
13 unique J



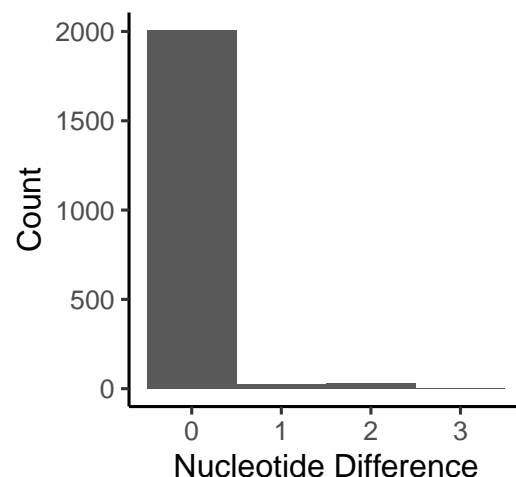
### TRBV10-2\*ap01

1705 sequences assigned  
1690 (99.1%) exact matches, in which:  
1660 unique CDR3  
13 unique J



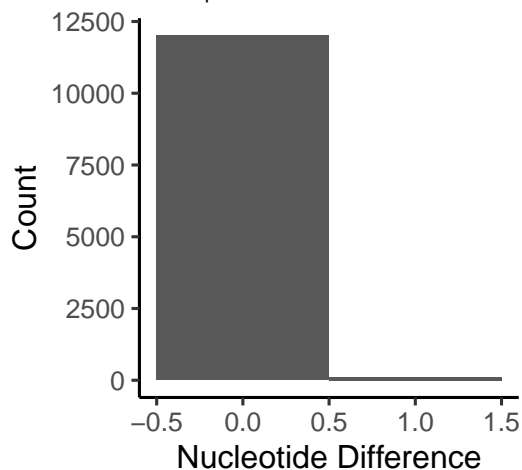
### TRBV13\*ap01

2062 sequences assigned  
2006 (97.3%) exact matches, in which:  
1964 unique CDR3  
13 unique J



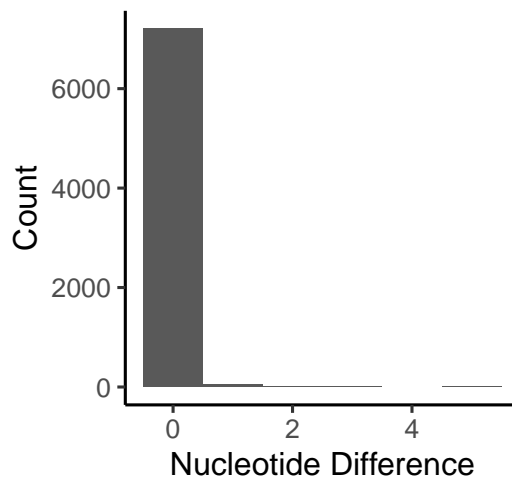
### TRBV20-1\*ap01

12127 sequences assigned  
12013 (99.1%) exact matches, in which:  
11858 unique CDR3  
13 unique J



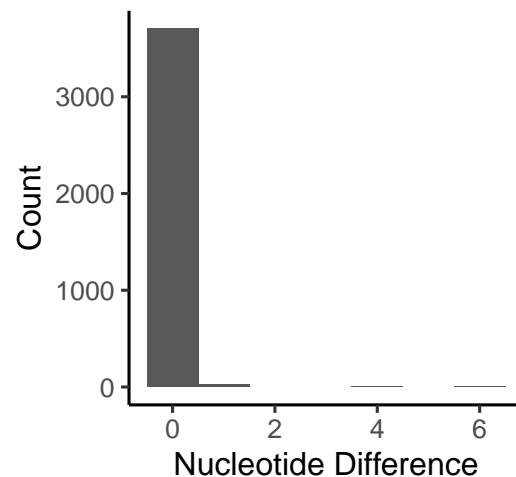
### TRBV10-3\*ap01

7266 sequences assigned  
7205 (99.2%) exact matches, in which:  
7096 unique CDR3  
13 unique J



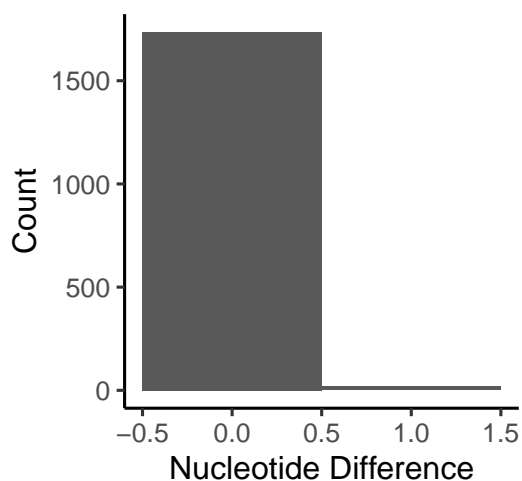
### TRBV14\*ap01

3729 sequences assigned  
3703 (99.3%) exact matches, in which:  
3636 unique CDR3  
13 unique J



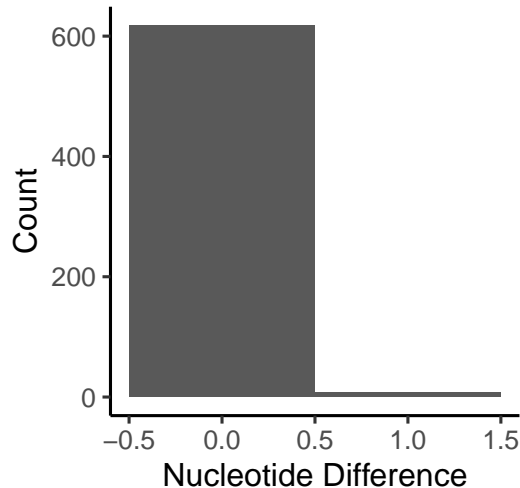
### TRBV20-1\*ap02

1754 sequences assigned  
1736 (99%) exact matches, in which:  
1715 unique CDR3  
13 unique J



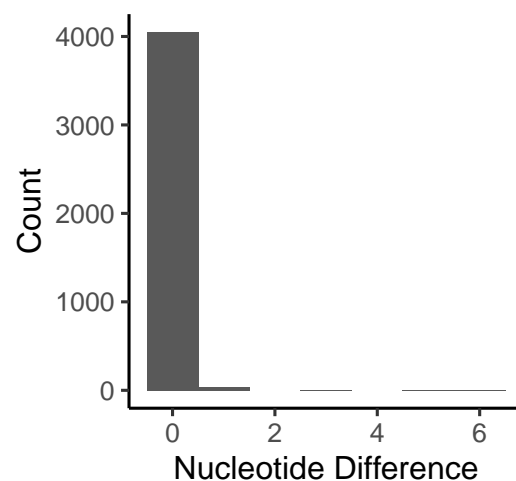
### TRBV1\*ap01

625 sequences assigned  
618 (98.9%) exact matches, in which:  
600 unique CDR3  
13 unique J



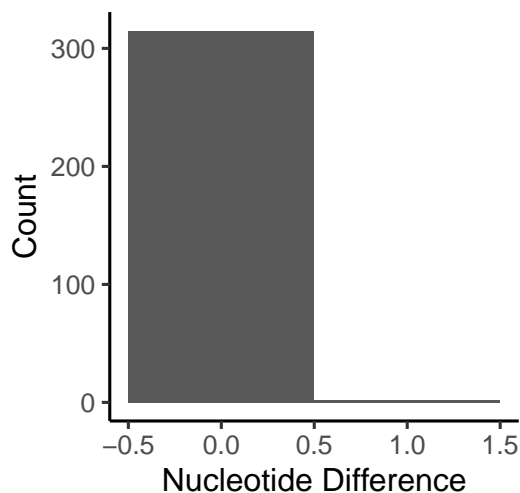
### TRBV15\*ap02

4093 sequences assigned  
4050 (98.9%) exact matches, in which:  
3962 unique CDR3  
13 unique J



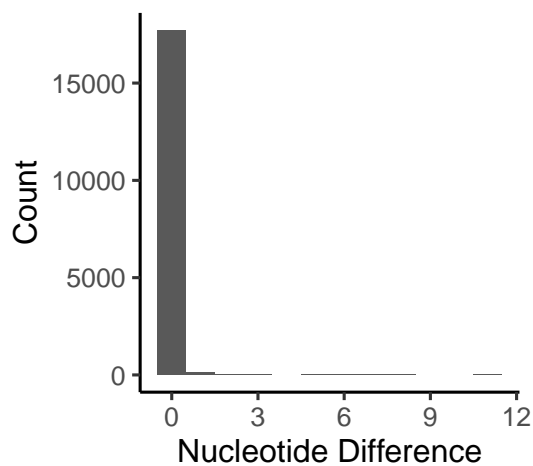
### TRBV16\*ap01

317 sequences assigned  
315 (99.4%) exact matches, in which:  
310 unique CDR3  
13 unique J



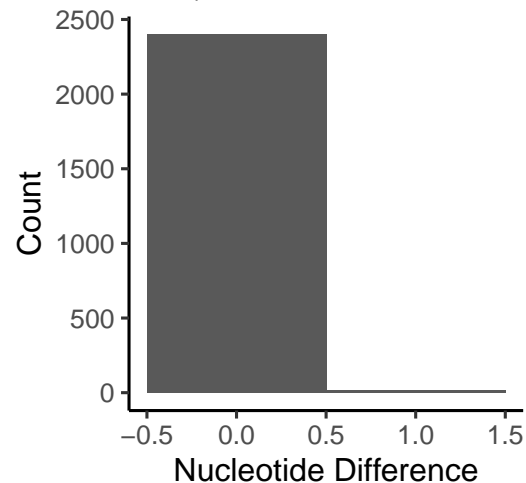
### TRBV19\*ap01

17877 sequences assigned  
17720 (99.1%) exact matches, in which:  
17554 unique CDR3  
13 unique J



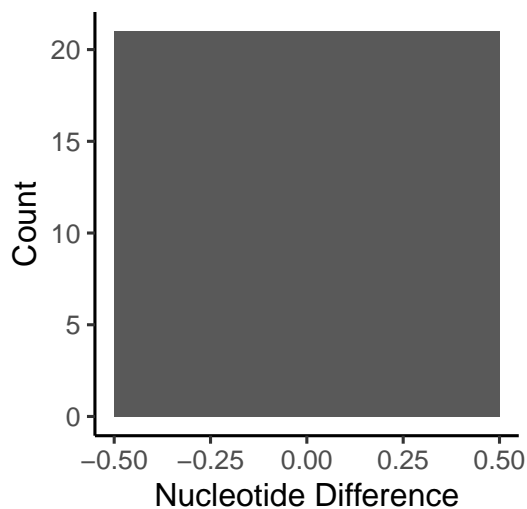
### TRBV28\*ap01

2418 sequences assigned  
2400 (99.3%) exact matches, in which:  
2373 unique CDR3  
13 unique J



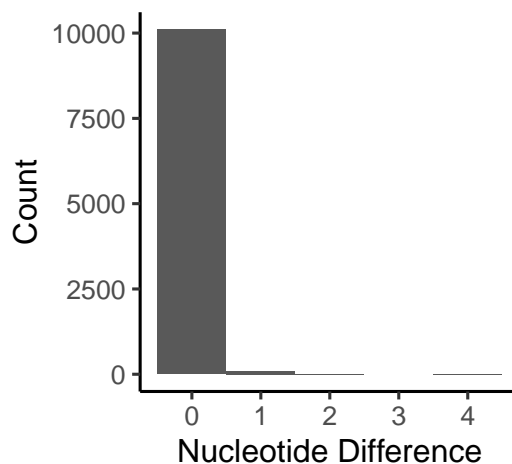
### TRBV17\*ap01

21 sequences assigned  
21 (100%) exact matches, in which:  
20 unique CDR3  
8 unique J



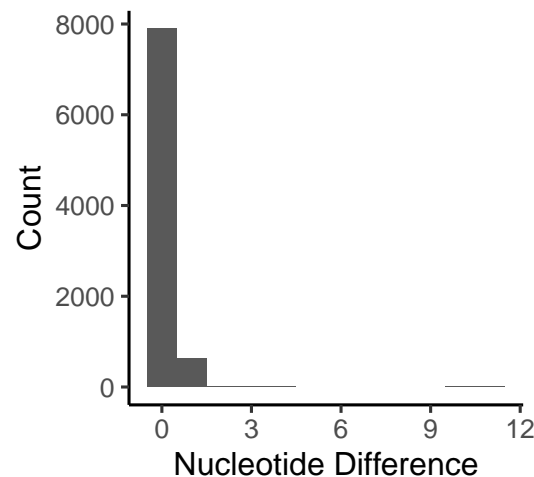
### TRBV2\*ap01

10197 sequences assigned  
10106 (99.1%) exact matches, in which:  
9953 unique CDR3  
13 unique J



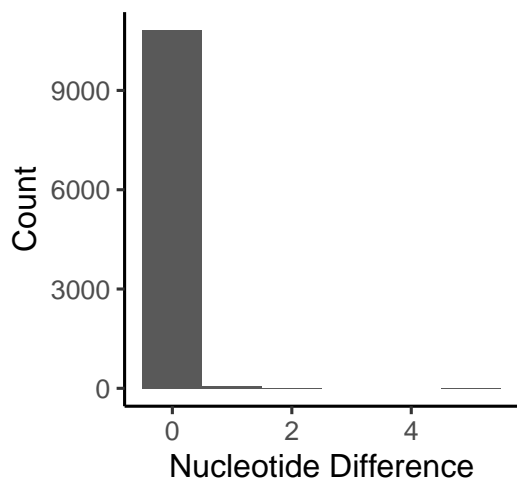
### TRBV30\*ap01

8534 sequences assigned  
7896 (92.5%) exact matches, in which:  
7701 unique CDR3  
13 unique J



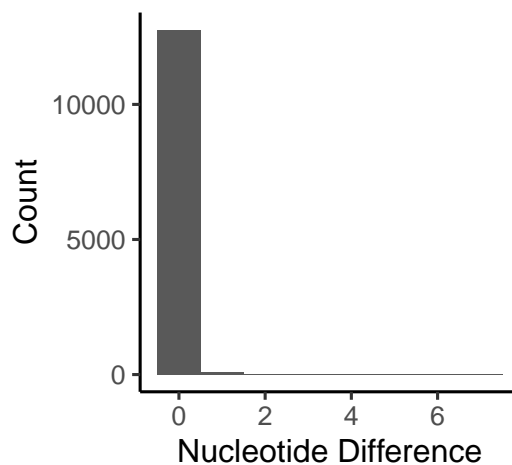
### TRBV18\*ap01

10889 sequences assigned  
10824 (99.4%) exact matches, in which:  
10707 unique CDR3  
13 unique J



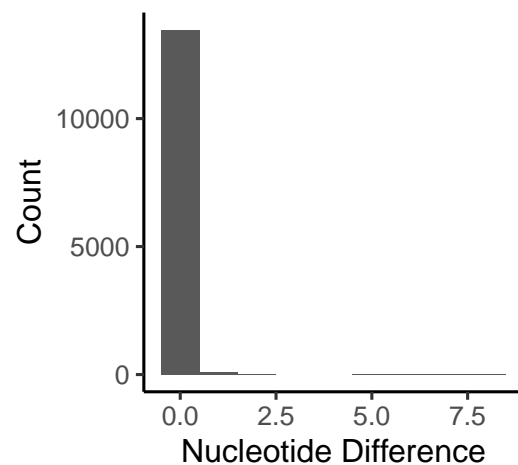
### TRBV27\*ap01

12895 sequences assigned  
12762 (99%) exact matches, in which:  
12525 unique CDR3  
13 unique J



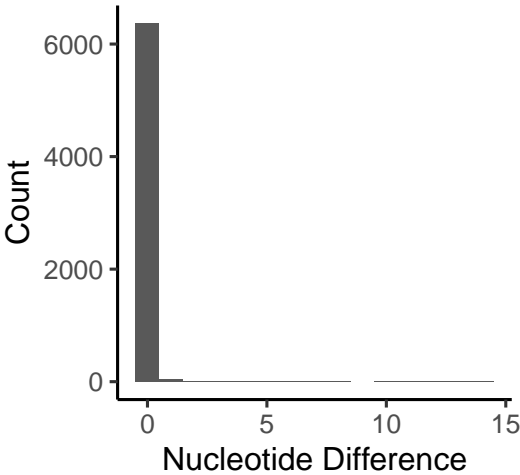
### TRBV9\*ap01

13566 sequences assigned  
13469 (99.3%) exact matches, in which:  
13303 unique CDR3  
13 unique J



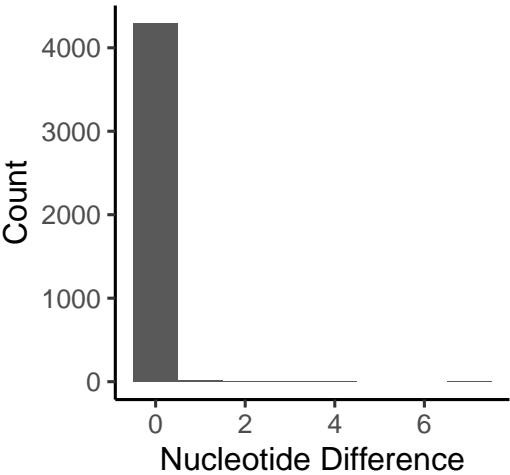
TRBV21-1\*ap01

6448 sequences assigned  
6367 (98.7%) exact matches, in which:  
6303 unique CDR3  
13 unique J



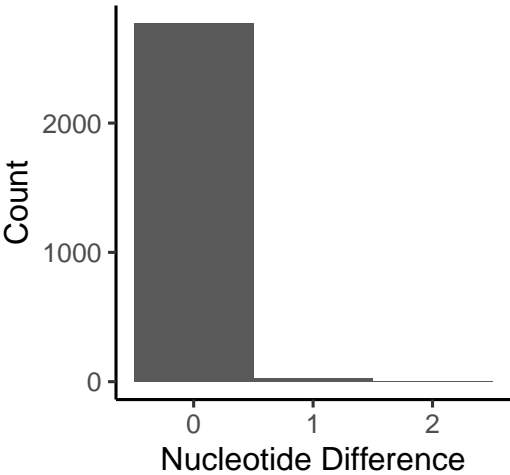
TRBV11-3\*ap01

4321 sequences assigned  
4292 (99.3%) exact matches, in which:  
4247 unique CDR3  
13 unique J



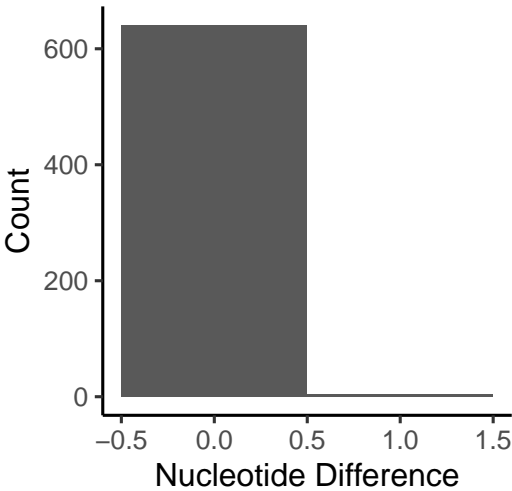
TRBV12-5\*ap01

2799 sequences assigned  
2771 (99%) exact matches, in which:  
2723 unique CDR3  
13 unique J



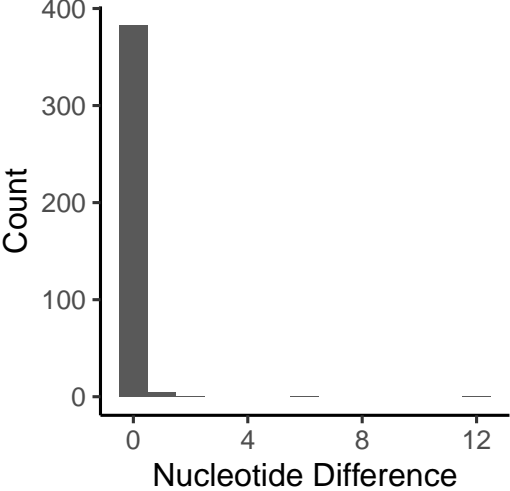
TRBV11-1\*ap01

646 sequences assigned  
641 (99.2%) exact matches, in which:  
630 unique CDR3  
13 unique J



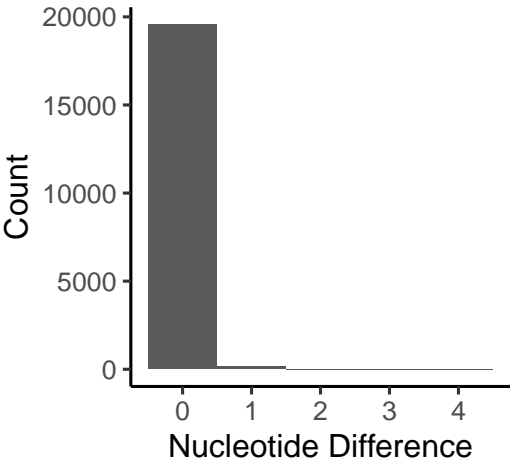
TRBV12-1\*ap01

391 sequences assigned  
383 (98%) exact matches, in which:  
381 unique CDR3  
13 unique J



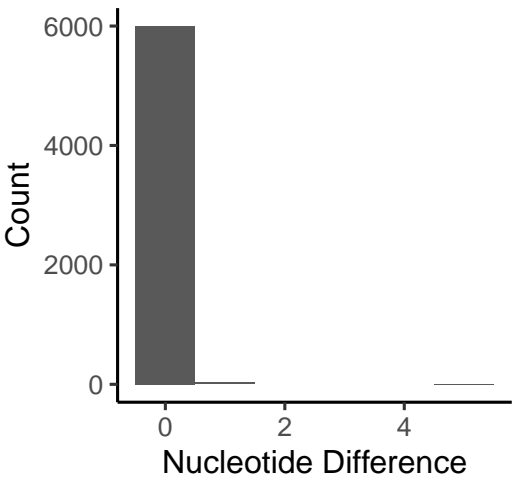
TRBV12-34\*ap01

19740 sequences assigned  
19568 (99.1%) exact matches, in which:  
19237 unique CDR3  
13 unique J



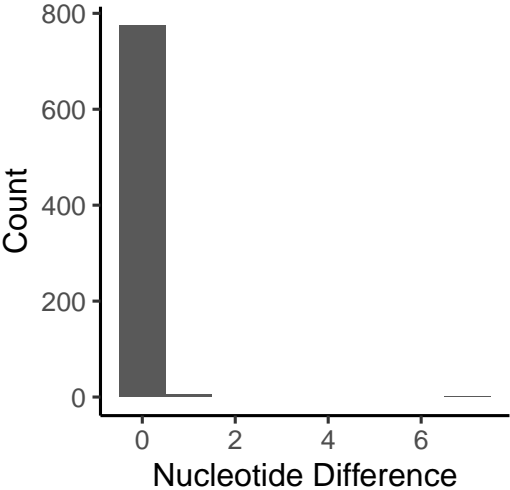
TRBV11-2\*ap01

6030 sequences assigned  
6000 (99.5%) exact matches, in which:  
5962 unique CDR3  
13 unique J



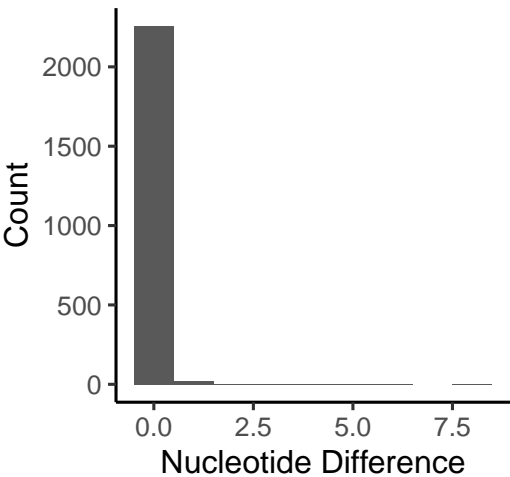
TRBV12-2\*ap01

781 sequences assigned  
775 (99.2%) exact matches, in which:  
768 unique CDR3  
13 unique J



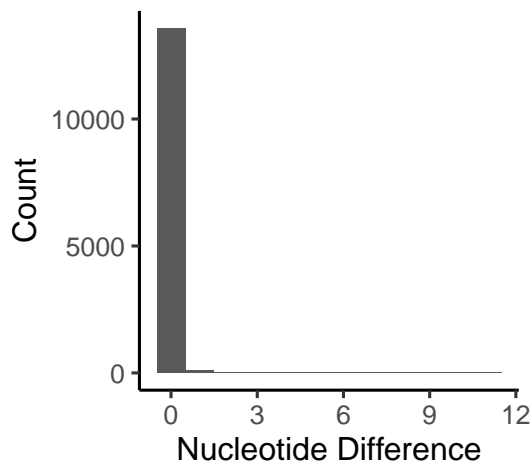
TRBV23-1\*ap01

2288 sequences assigned  
2257 (98.6%) exact matches, in which:  
2223 unique CDR3  
13 unique J



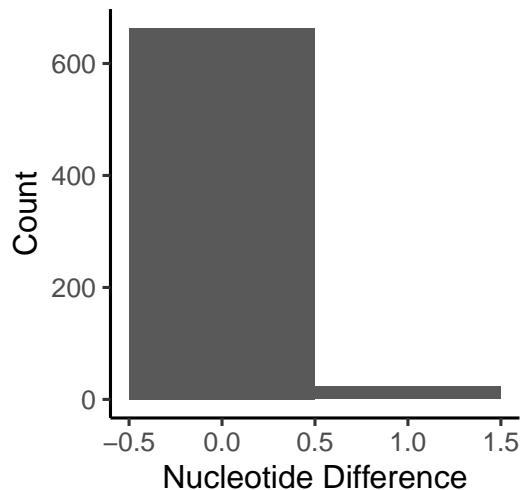
### TRBV3-12\*ap01

13690 sequences assigned  
13578 (99.2%) exact matches, in which:  
13468 unique CDR3  
13 unique J



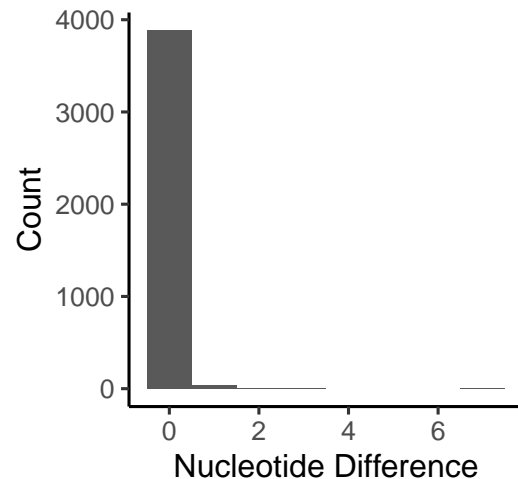
### TRBV4-2\*ap01

687 sequences assigned  
664 (96.7%) exact matches, in which:  
653 unique CDR3  
13 unique J



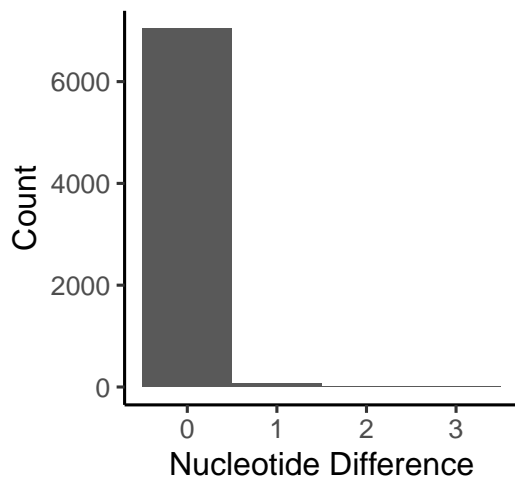
### TRBV25-1\*ap01

3925 sequences assigned  
3884 (99%) exact matches, in which:  
3784 unique CDR3  
13 unique J



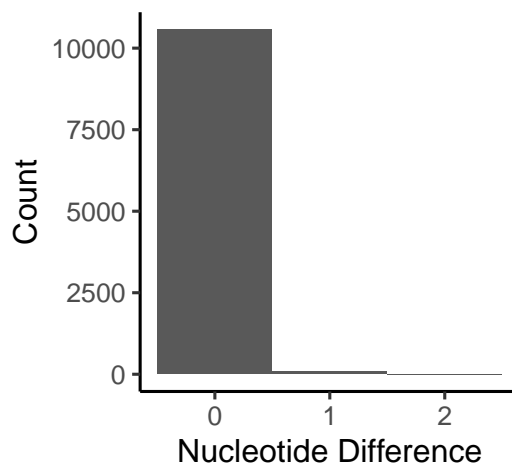
### TRBV4-1\*ap01

7104 sequences assigned  
7039 (99.1%) exact matches, in which:  
6892 unique CDR3  
13 unique J



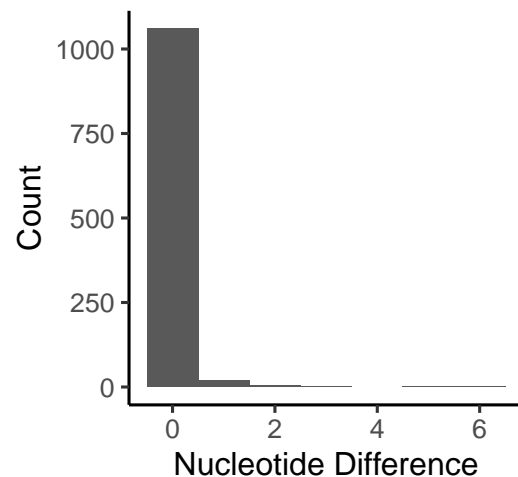
### TRBV4-3\*ap01

10666 sequences assigned  
10573 (99.1%) exact matches, in which:  
10338 unique CDR3  
13 unique J



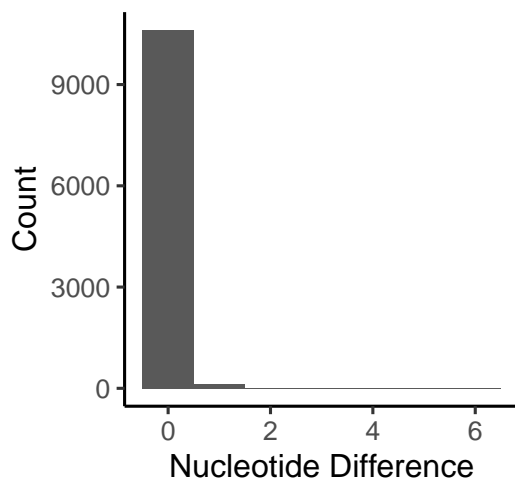
### TRBV5-3\*ap01

1087 sequences assigned  
1060 (97.5%) exact matches, in which:  
1027 unique CDR3  
13 unique J



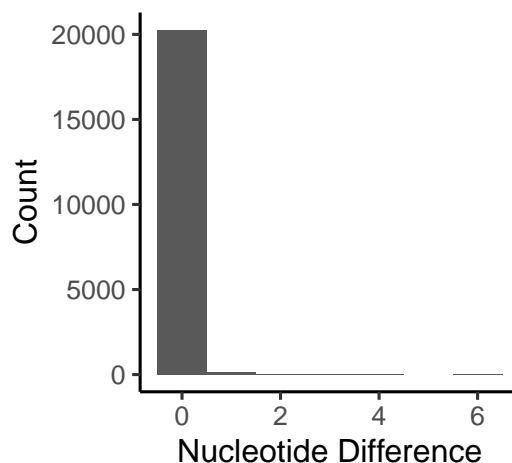
### TRBV24-1\*ap01

10764 sequences assigned  
10615 (98.6%) exact matches, in which:  
10413 unique CDR3  
13 unique J



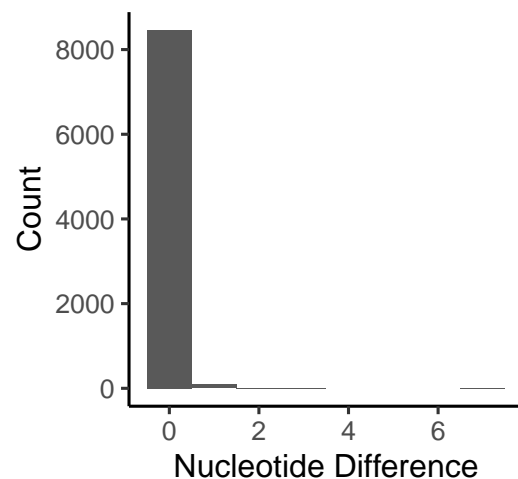
### TRBV5-1\*ap01

20445 sequences assigned  
20270 (99.1%) exact matches, in which:  
19876 unique CDR3  
13 unique J



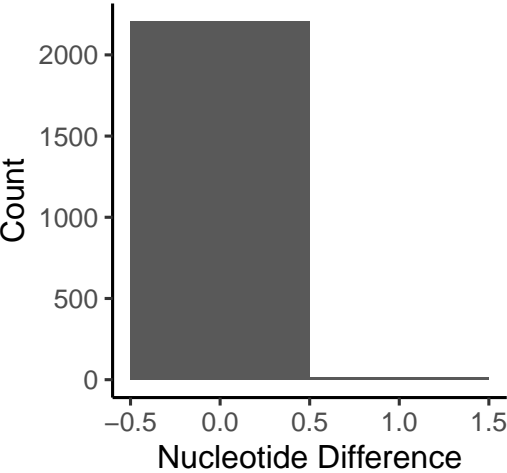
### TRBV5-4\*ap01

8555 sequences assigned  
8461 (98.9%) exact matches, in which:  
8288 unique CDR3  
13 unique J



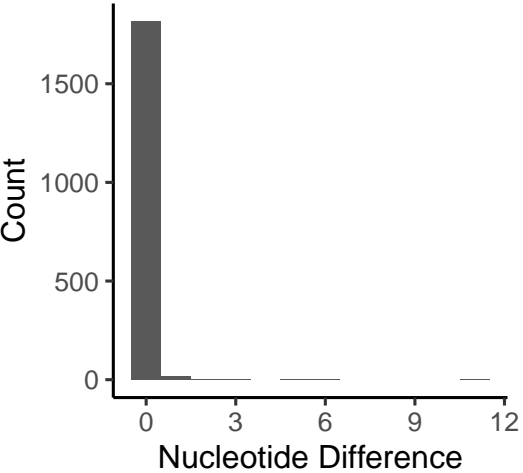
TRBV5-5\*ap01

2222 sequences assigned  
2206 (99.3%) exact matches, in which:  
2191 unique CDR3  
13 unique J



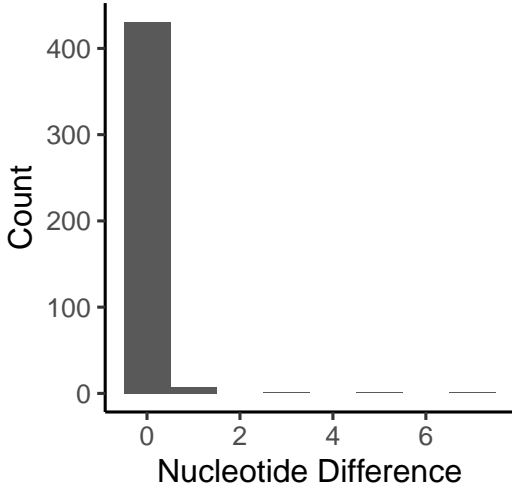
TRBV5-8\*ap01

1843 sequences assigned  
1816 (98.5%) exact matches, in which:  
1804 unique CDR3  
13 unique J



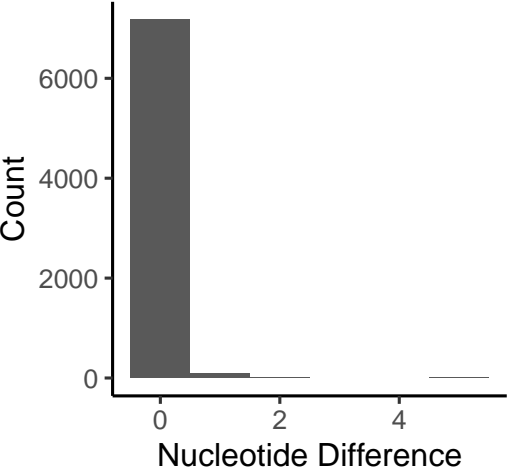
TRBV6-7\*ap01

441 sequences assigned  
431 (97.7%) exact matches, in which:  
426 unique CDR3  
14 unique J



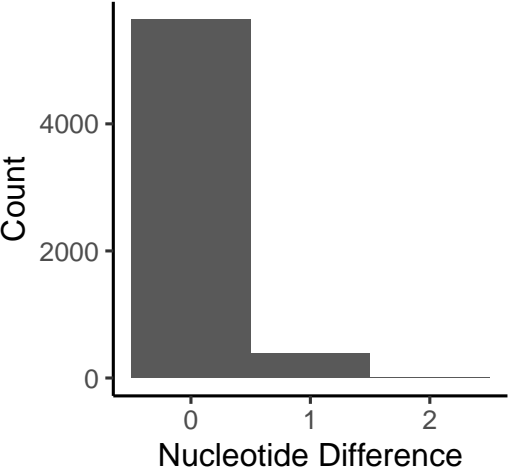
TRBV5-6\*ap01

7268 sequences assigned  
7173 (98.7%) exact matches, in which:  
6962 unique CDR3  
13 unique J



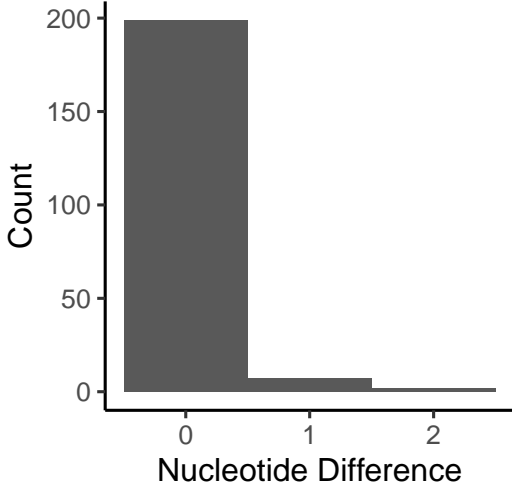
TRBV6-1\*ap01

6020 sequences assigned  
5639 (93.7%) exact matches, in which:  
5534 unique CDR3  
13 unique J



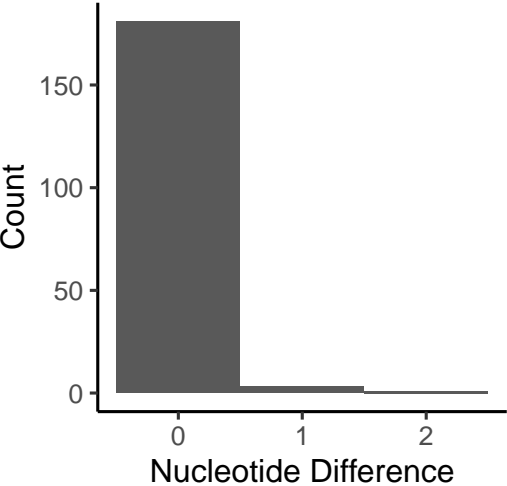
TRBV6-8\*ap01

208 sequences assigned  
199 (95.7%) exact matches, in which:  
196 unique CDR3  
13 unique J



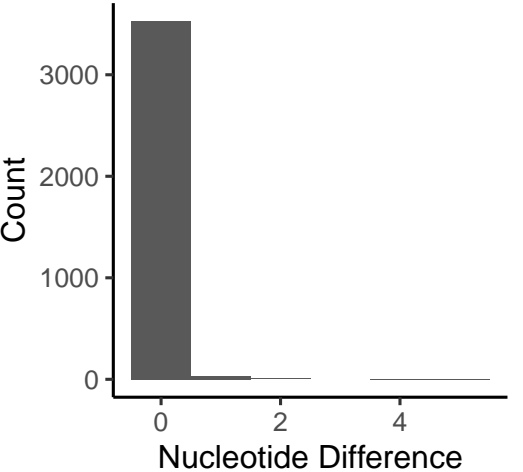
TRBV5-7\*ap01

185 sequences assigned  
181 (97.8%) exact matches, in which:  
176 unique CDR3  
13 unique J



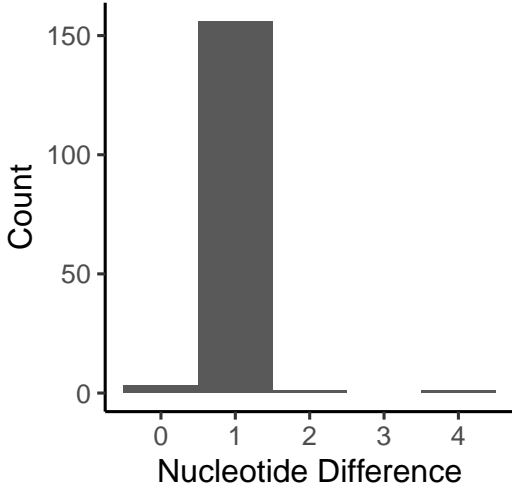
TRBV6-4\*ap01

3570 sequences assigned  
3529 (98.9%) exact matches, in which:  
3475 unique CDR3  
13 unique J



TRBV6-9\*ap01

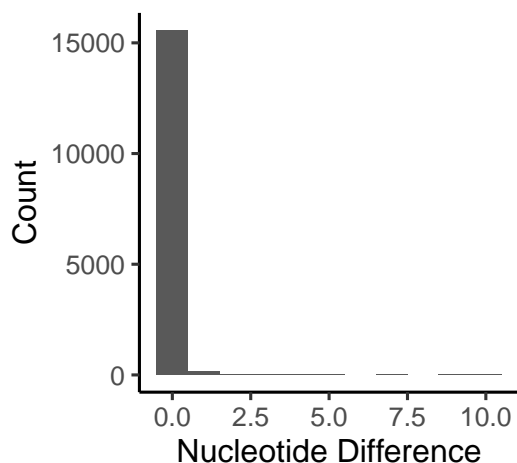
161 sequences assigned  
3 (1.9%) exact matches, in which:  
2 unique CDR3  
1 unique J





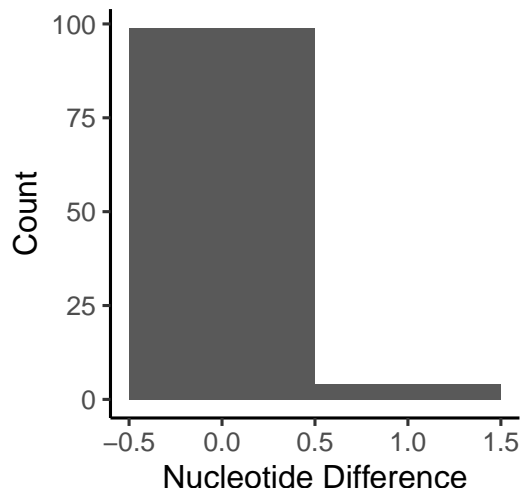
### TRBV6-23\*ap01

15748 sequences assigned  
15574 (98.9%) exact matches, in which:  
15152 unique CDR3  
13 unique J



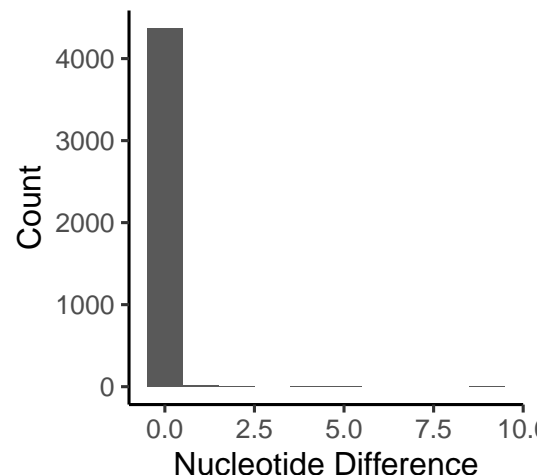
### TRBV7-1\*ap01\_G291C\_

103 sequences assigned  
99 (96.1%) exact matches, in which:  
98 unique CDR3  
12 unique J



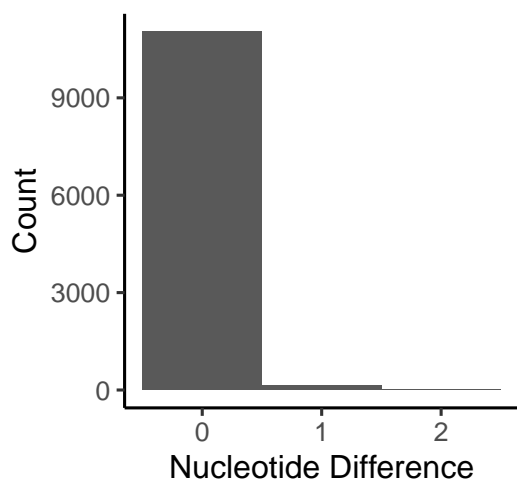
### TRBV7-3\*ap01

4392 sequences assigned  
4368 (99.5%) exact matches, in which:  
4308 unique CDR3  
13 unique J



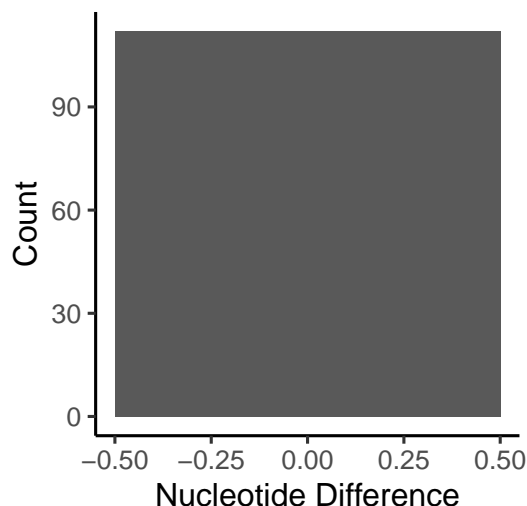
### TRBV6-56\*ap01

11163 sequences assigned  
11036 (98.9%) exact matches, in which:  
10766 unique CDR3  
13 unique J



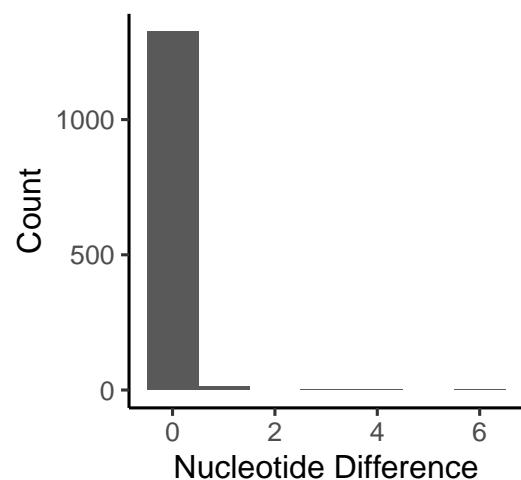
### TRBV7-1\*ap01\_G291C\_T

112 sequences assigned  
112 (100%) exact matches, in which:  
109 unique CDR3  
12 unique J



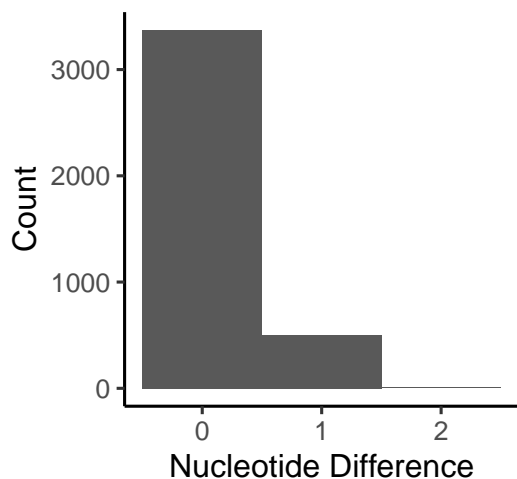
### TRBV7-3\*ap02

1344 sequences assigned  
1325 (98.6%) exact matches, in which:  
1308 unique CDR3  
13 unique J



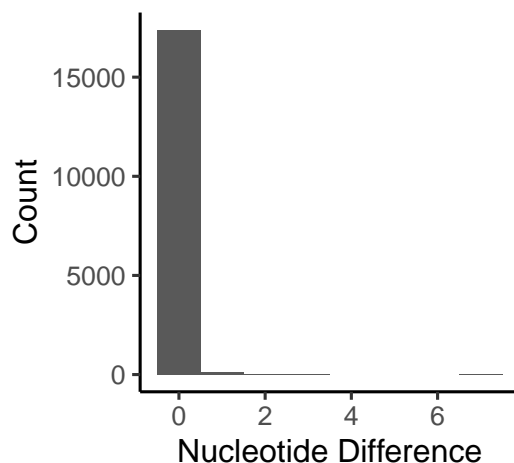
### TRBV6-56\*ap02

3878 sequences assigned  
3372 (87%) exact matches, in which:  
3296 unique CDR3  
13 unique J



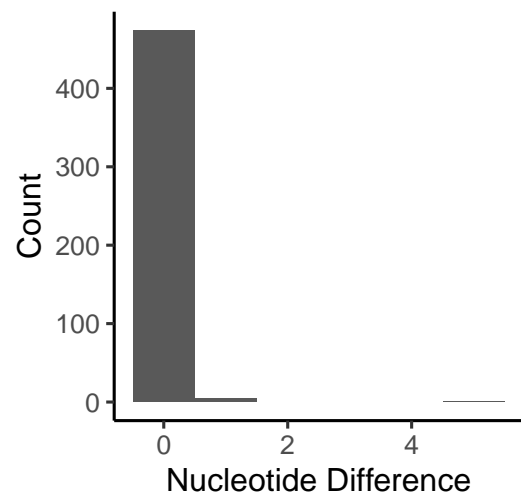
### TRBV7-2\*ap01

17502 sequences assigned  
17389 (99.4%) exact matches, in which:  
17148 unique CDR3  
13 unique J



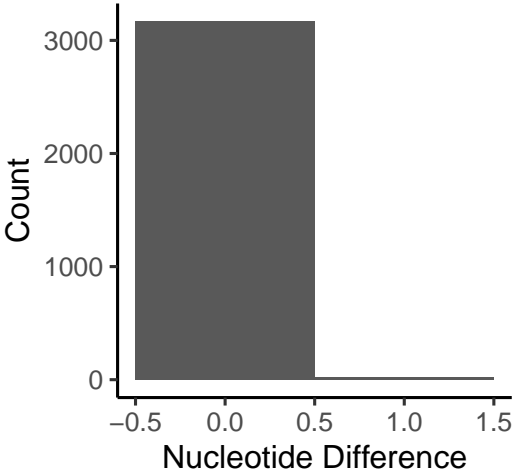
### TRBV7-4\*ap01

480 sequences assigned  
474 (98.8%) exact matches, in which:  
466 unique CDR3  
13 unique J



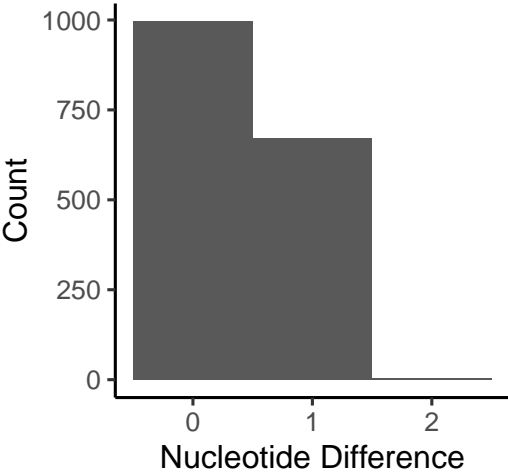
TRBV7-6\*ap01

3187 sequences assigned  
3168 (99.4%) exact matches, in which:  
3123 unique CDR3  
13 unique J



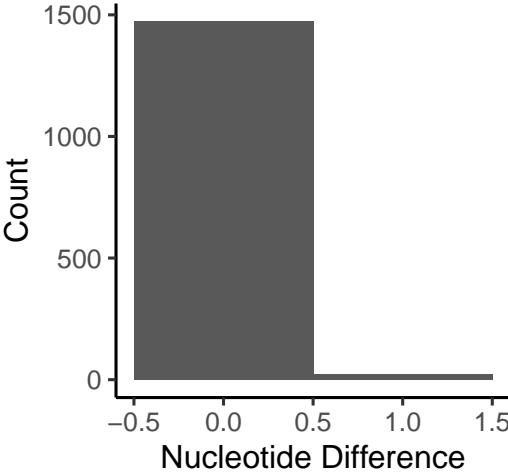
TRBV7-8\*ap03

1672 sequences assigned  
996 (59.6%) exact matches, in which:  
978 unique CDR3  
13 unique J



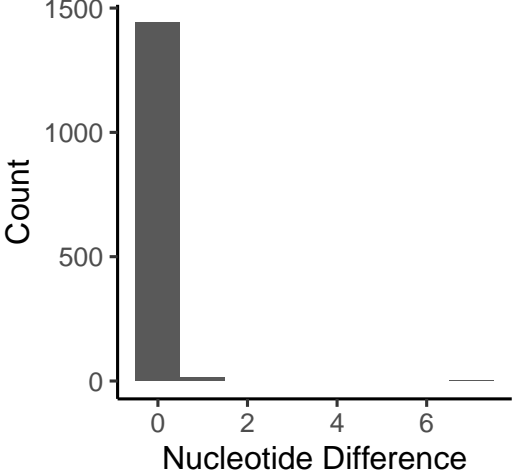
TRBV29-1\*ap02

1494 sequences assigned  
1473 (98.6%) exact matches, in which:  
1428 unique CDR3  
13 unique J



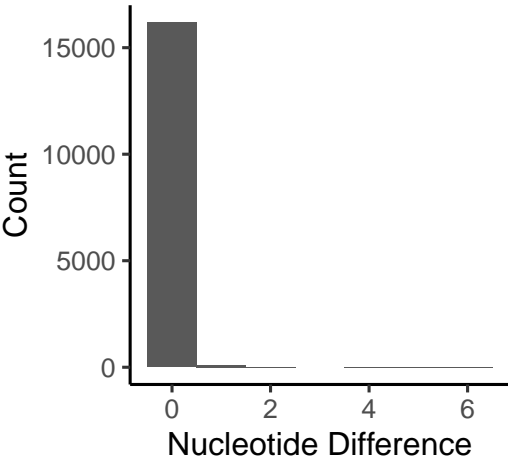
TRBV7-7\*ap01

1455 sequences assigned  
1441 (99%) exact matches, in which:  
1426 unique CDR3  
13 unique J



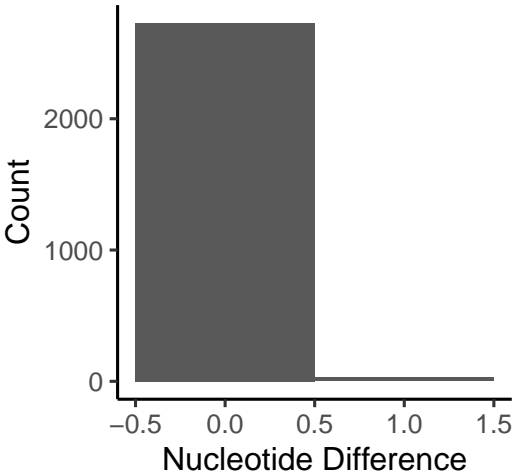
TRBV7-9\*ap01

16296 sequences assigned  
16183 (99.3%) exact matches, in which:  
15963 unique CDR3  
13 unique J



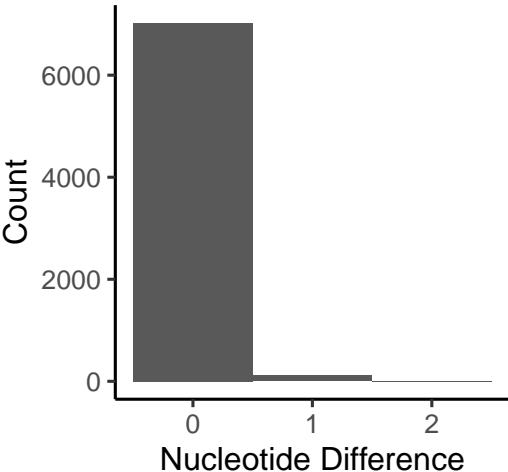
TRBV7-8\*ap01

2757 sequences assigned  
2729 (99%) exact matches, in which:  
2688 unique CDR3  
13 unique J

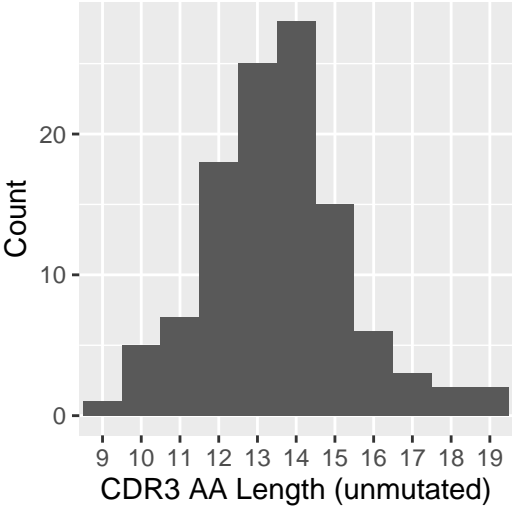


TRBV29-1\*ap01

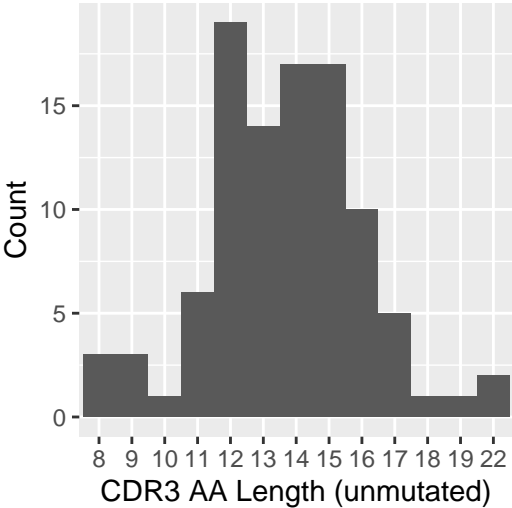
7137 sequences assigned  
7022 (98.4%) exact matches, in which:  
6820 unique CDR3  
13 unique J



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



TRBV7-1\*ap01\_G291C\_T296C





[illegible]