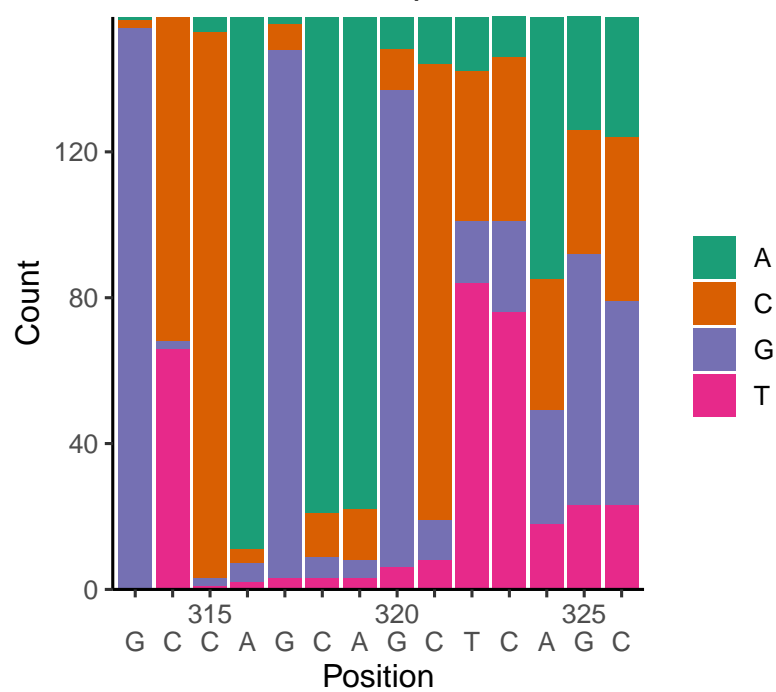
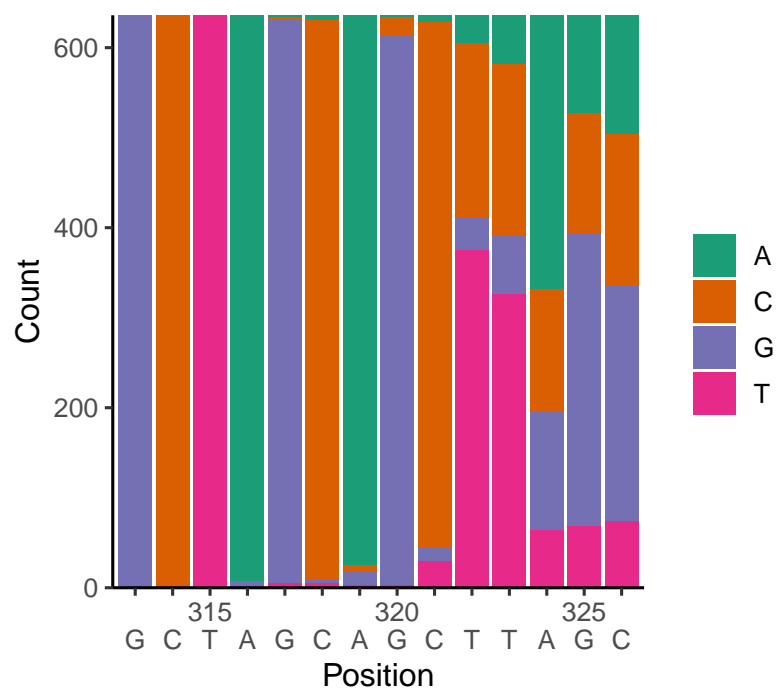


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



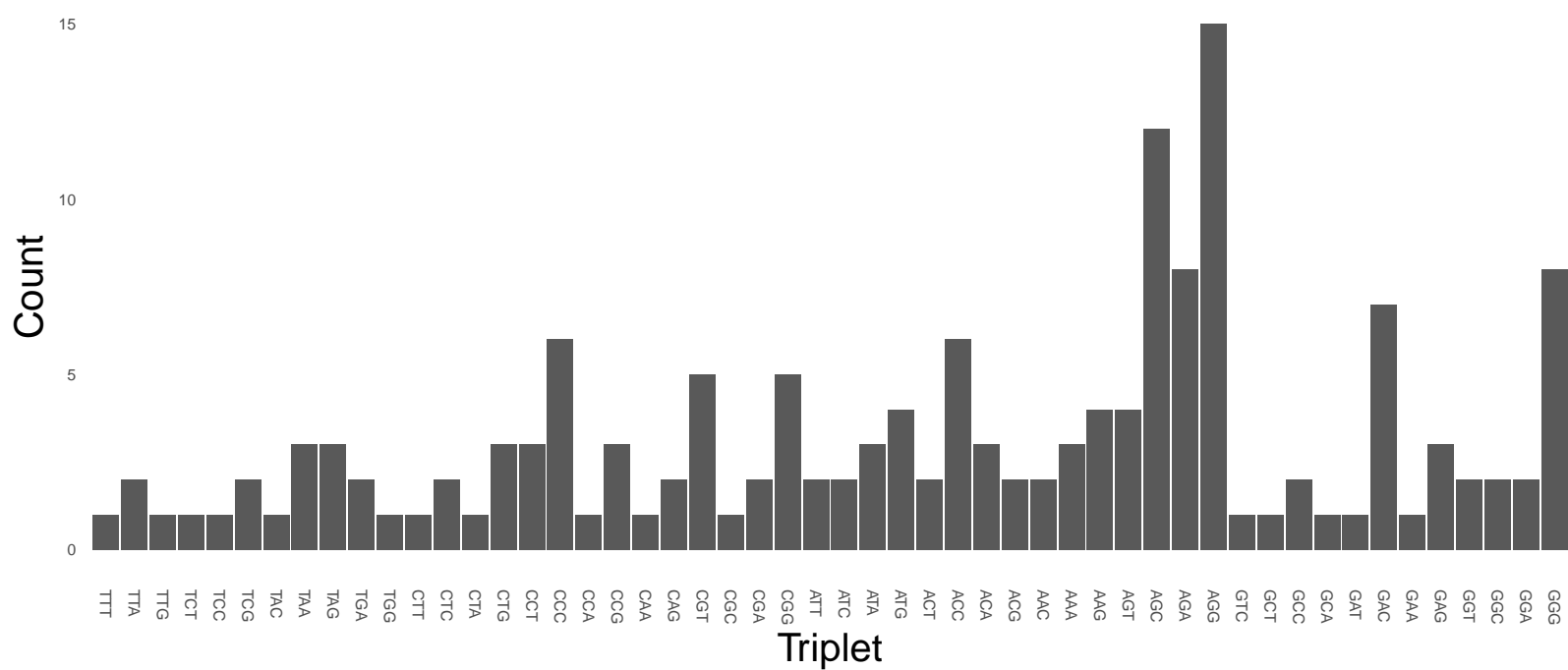
Gene TRBV7-1\*ap01\_G291C\_T296C



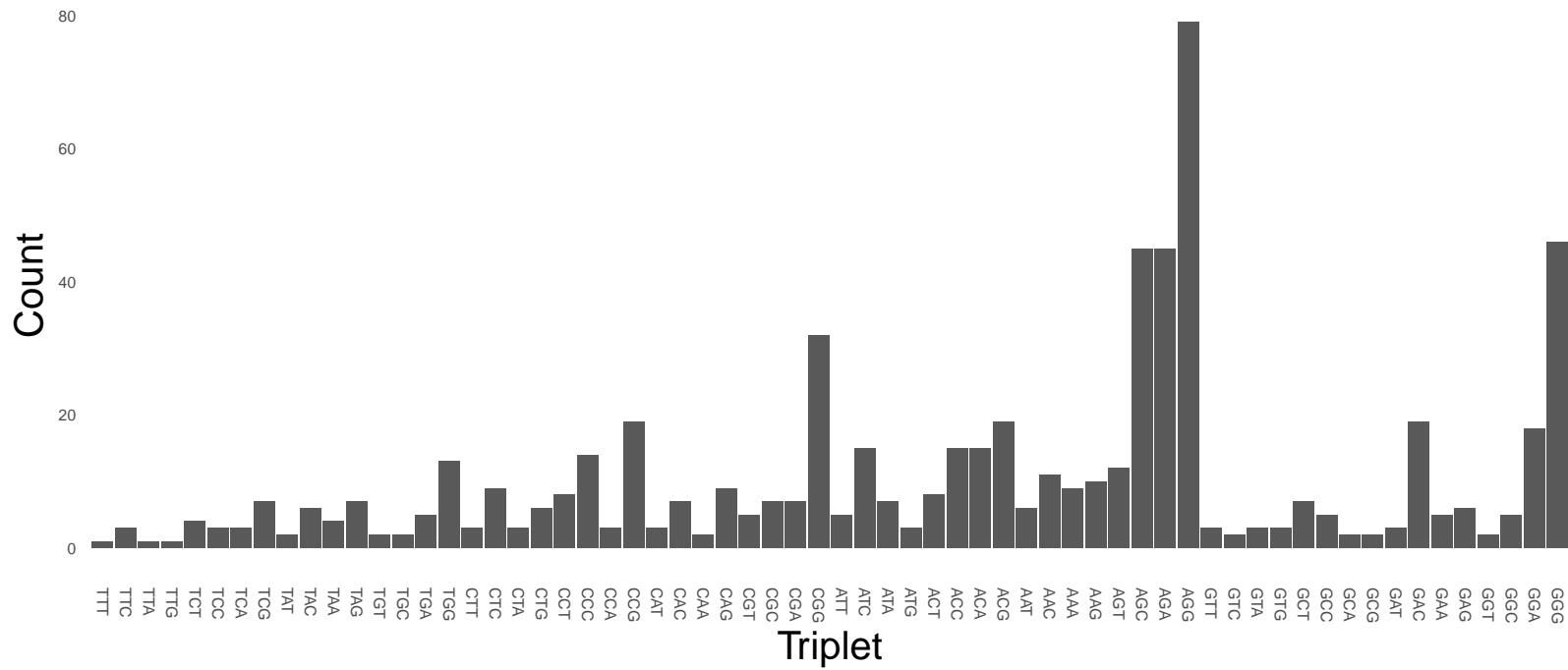
Gene TRBV7-7\*ap01\_C315T



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

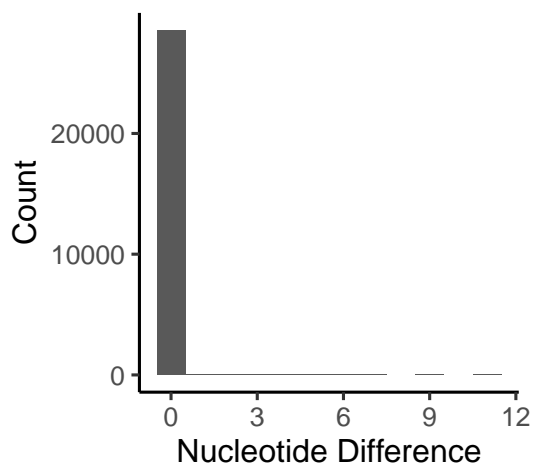


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



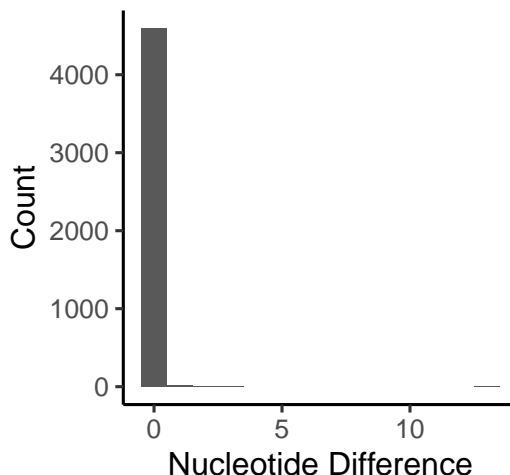
### TRBV20-1\*ap01

28631 sequences assigned  
28557 (99.7%) exact matches, in which:  
28545 unique CDR3  
13 unique J



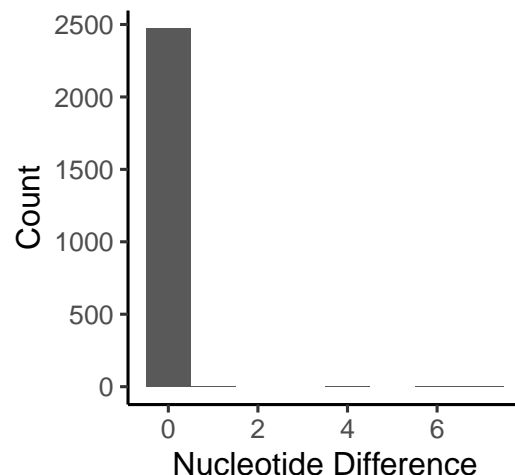
### TRBV10-3\*ap01

4611 sequences assigned  
4594 (99.6%) exact matches, in which:  
4594 unique CDR3  
13 unique J



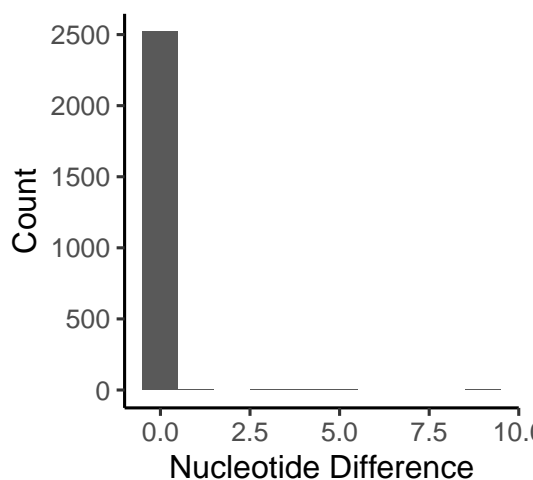
### TRBV14\*ap01

2477 sequences assigned  
2473 (99.8%) exact matches, in which:  
2473 unique CDR3  
13 unique J



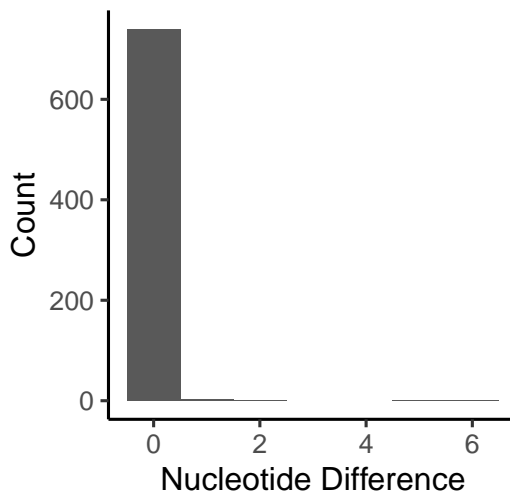
### TRBV10-1\*ap01

2526 sequences assigned  
2520 (99.8%) exact matches, in which:  
2520 unique CDR3  
13 unique J



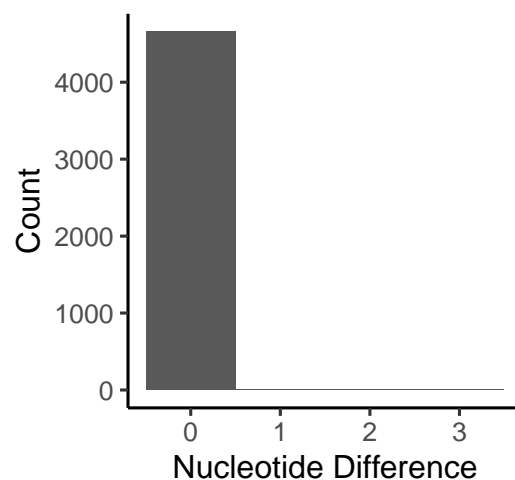
### TRBV1\*ap01

745 sequences assigned  
740 (99.3%) exact matches, in which:  
740 unique CDR3  
13 unique J



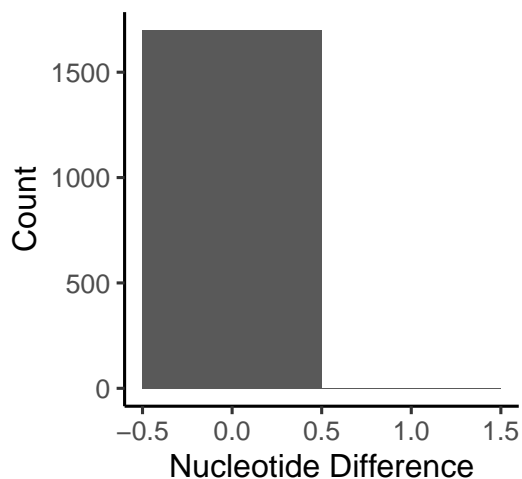
### TRBV15\*ap02

4662 sequences assigned  
4656 (99.9%) exact matches, in which:  
4653 unique CDR3  
13 unique J



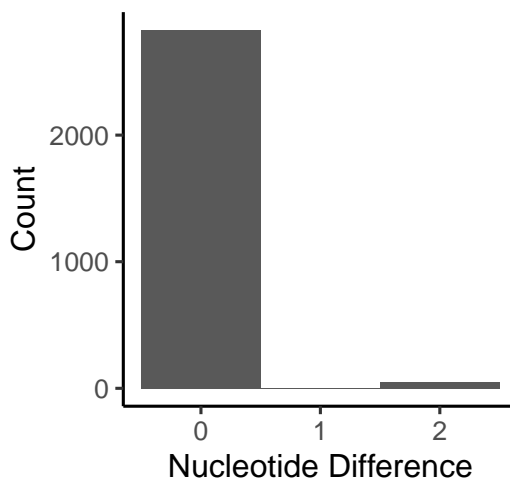
### TRBV10-2\*ap01

1702 sequences assigned  
1700 (99.9%) exact matches, in which:  
1699 unique CDR3  
13 unique J



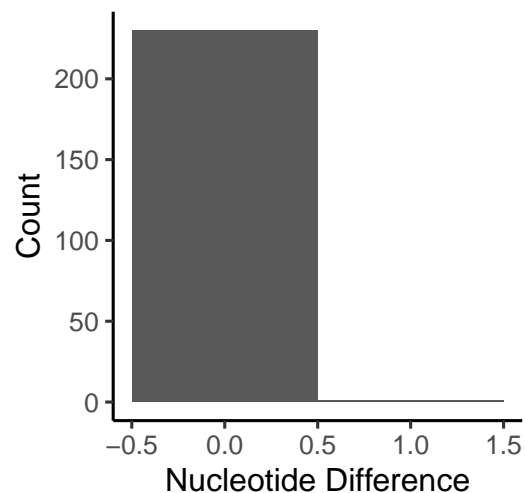
### TRBV13\*ap01

2885 sequences assigned  
2830 (98.1%) exact matches, in which:  
2828 unique CDR3  
13 unique J



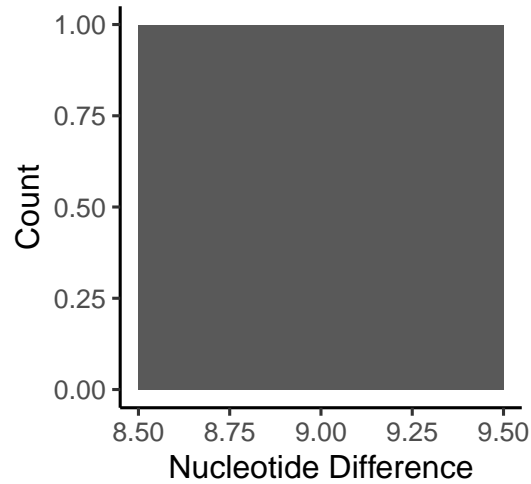
### TRBV16\*ap01

231 sequences assigned  
230 (99.6%) exact matches, in which:  
230 unique CDR3  
13 unique J



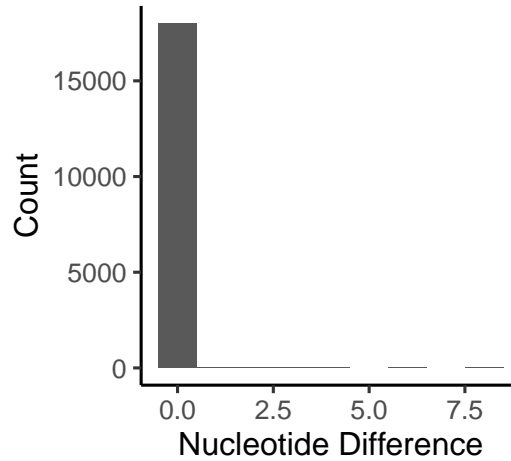
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



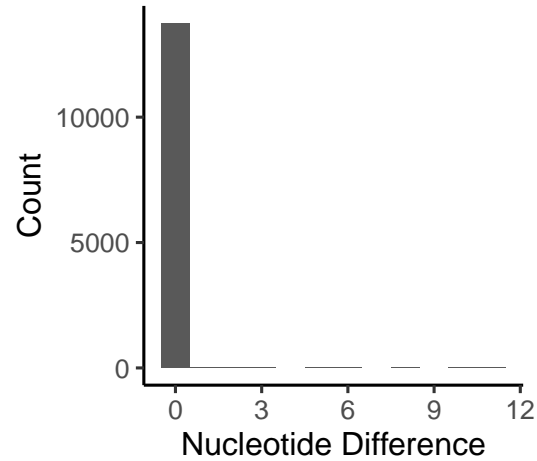
### TRBV2\*ap01

18050 sequences assigned  
18014 (99.8%) exact matches, in which:  
18000 unique CDR3  
13 unique J



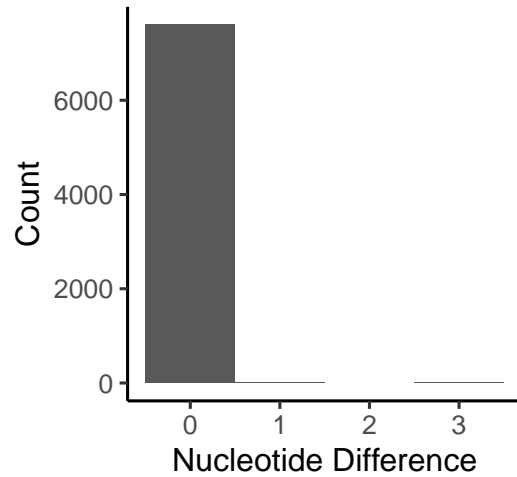
### TRBV30\*ap01

13799 sequences assigned  
13749 (99.6%) exact matches, in which:  
13729 unique CDR3  
13 unique J



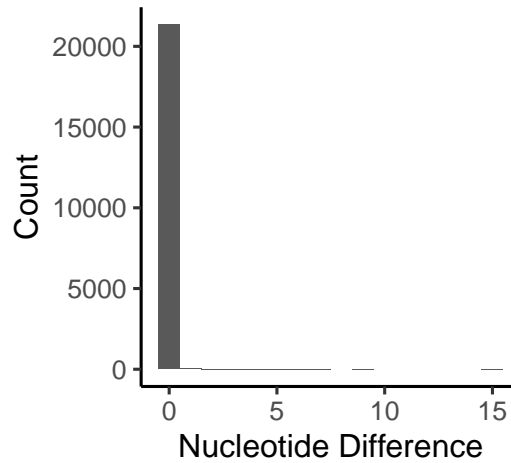
### TRBV18\*ap01

7614 sequences assigned  
7603 (99.9%) exact matches, in which:  
7600 unique CDR3  
13 unique J



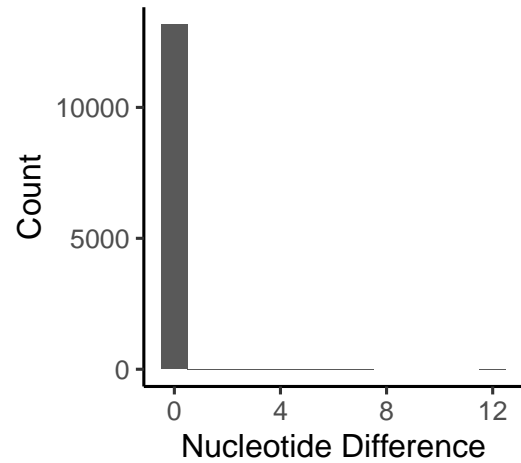
### TRBV27\*ap01

21436 sequences assigned  
21355 (99.6%) exact matches, in which:  
21332 unique CDR3  
13 unique J



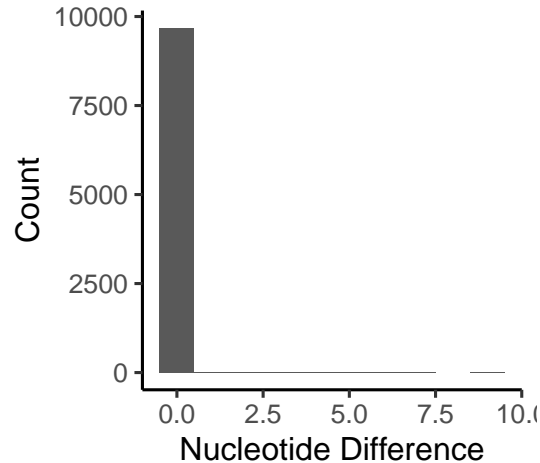
### TRBV9\*ap01

13194 sequences assigned  
13167 (99.8%) exact matches, in which:  
13165 unique CDR3  
13 unique J



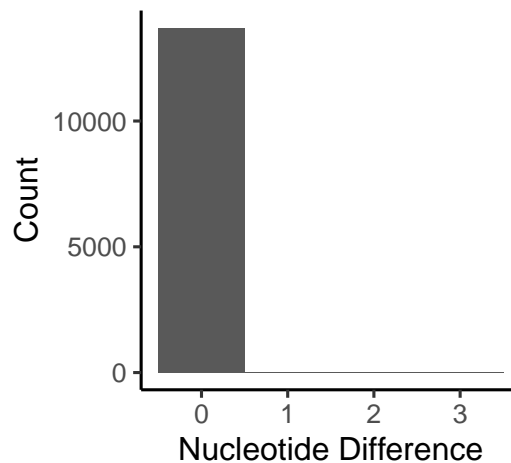
### TRBV19\*ap01

9722 sequences assigned  
9683 (99.6%) exact matches, in which:  
9683 unique CDR3  
13 unique J



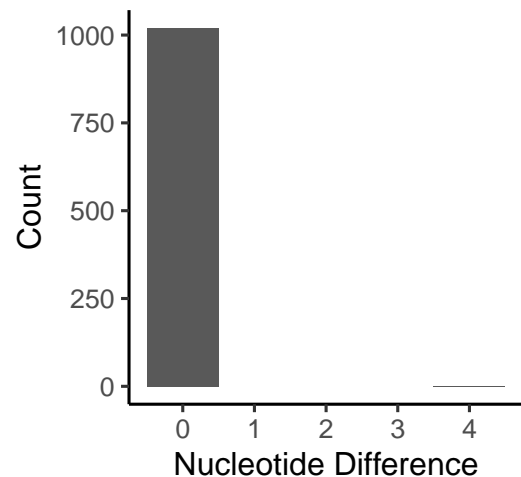
### TRBV28\*ap01

13725 sequences assigned  
13707 (99.9%) exact matches, in which:  
13705 unique CDR3  
13 unique J



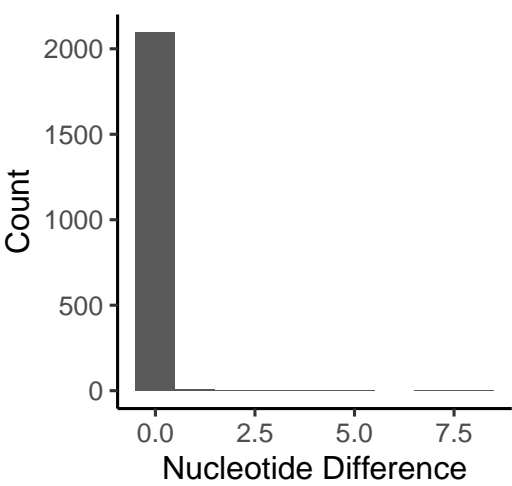
### TRBV11-1\*ap01

1021 sequences assigned  
1020 (99.9%) exact matches, in which:  
1020 unique CDR3  
13 unique J



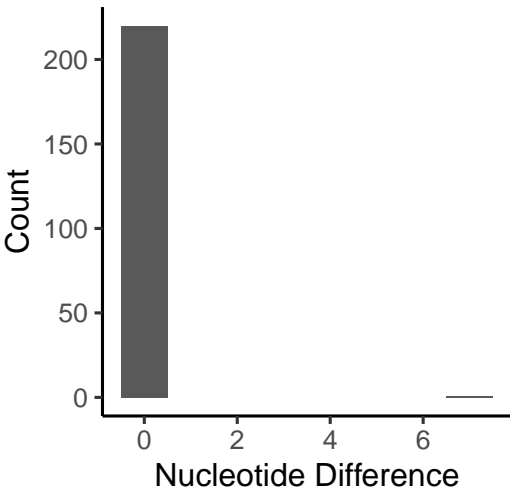
TRBV21-1\*ap01

2120 sequences assigned  
2096 (98.9%) exact matches, in which:  
2095 unique CDR3  
13 unique J



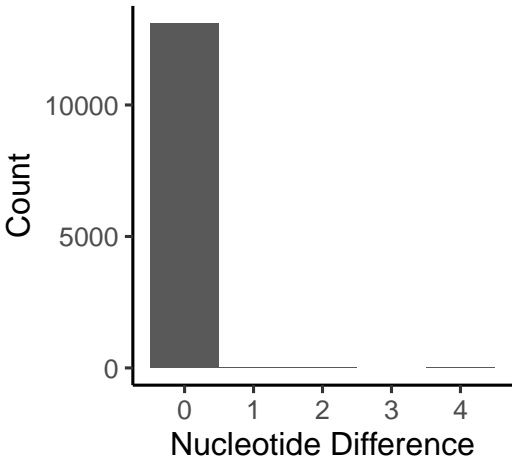
TRBV12-1\*ap01

221 sequences assigned  
220 (99.5%) exact matches, in which:  
220 unique CDR3  
13 unique J



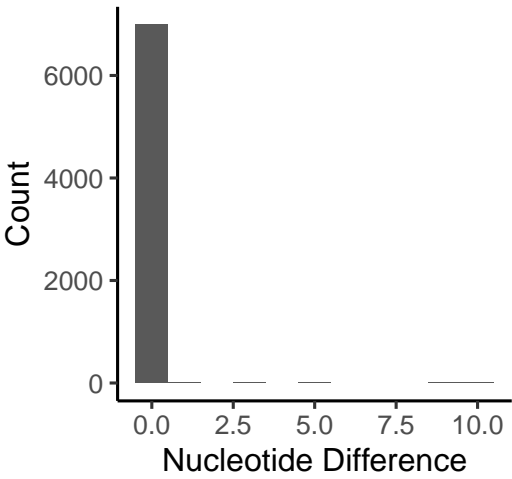
TRBV12-34\*ap01

13135 sequences assigned  
13112 (99.8%) exact matches, in which:  
13110 unique CDR3  
13 unique J



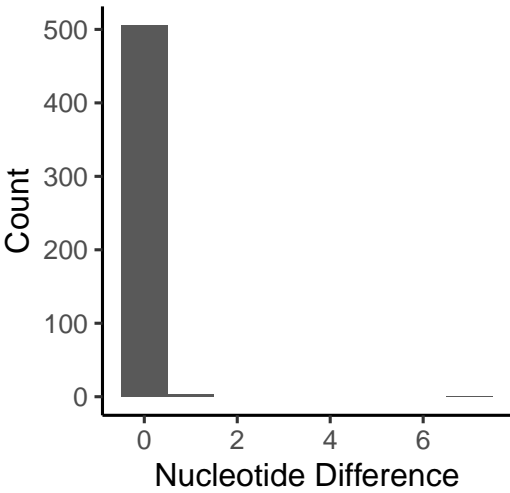
TRBV11-2\*ap01

7001 sequences assigned  
6990 (99.8%) exact matches, in which:  
6990 unique CDR3  
13 unique J



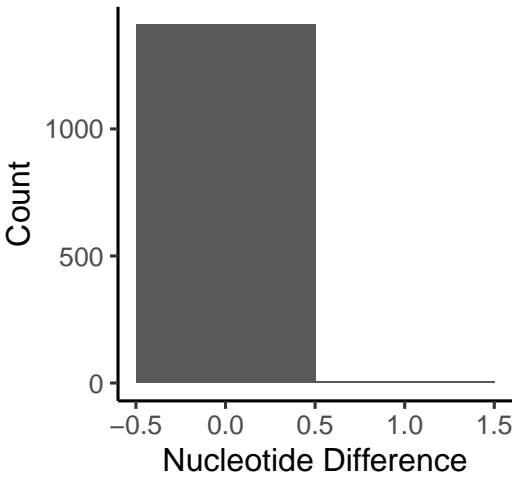
TRBV12-2\*ap01

511 sequences assigned  
506 (99%) exact matches, in which:  
506 unique CDR3  
13 unique J



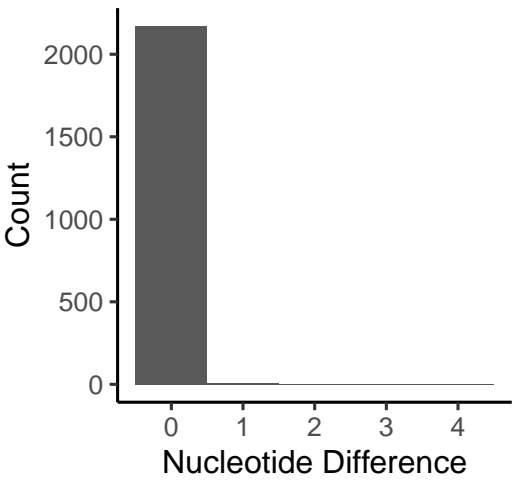
TRBV23-1\*ap01

1416 sequences assigned  
1410 (99.6%) exact matches, in which:  
1410 unique CDR3  
13 unique J



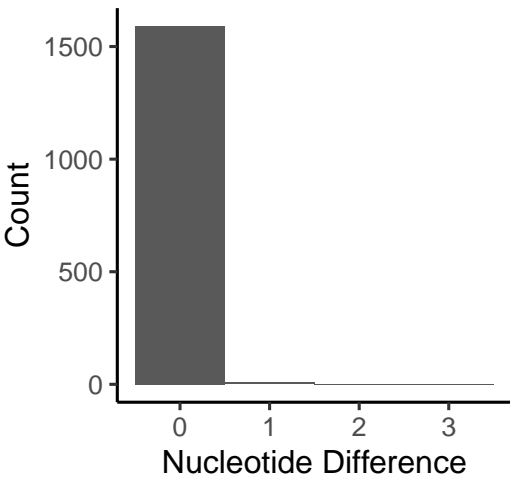
TRBV11-3\*ap01

2182 sequences assigned  
2171 (99.5%) exact matches, in which:  
2171 unique CDR3  
13 unique J



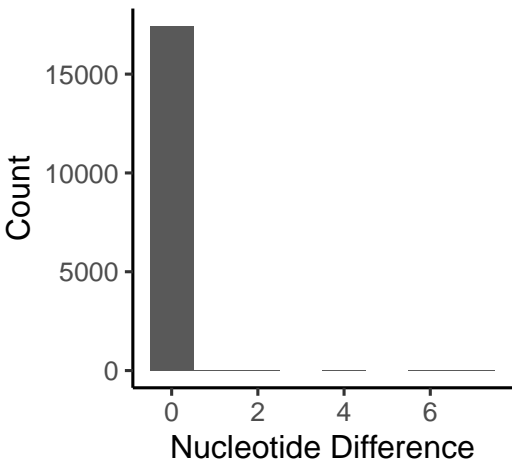
TRBV12-5\*ap01

1603 sequences assigned  
1591 (99.3%) exact matches, in which:  
1591 unique CDR3  
13 unique J



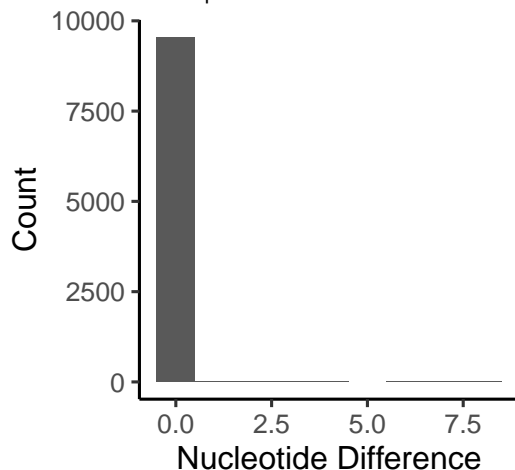
TRBV3-12\*ap01

17494 sequences assigned  
17445 (99.7%) exact matches, in which:  
17419 unique CDR3  
13 unique J



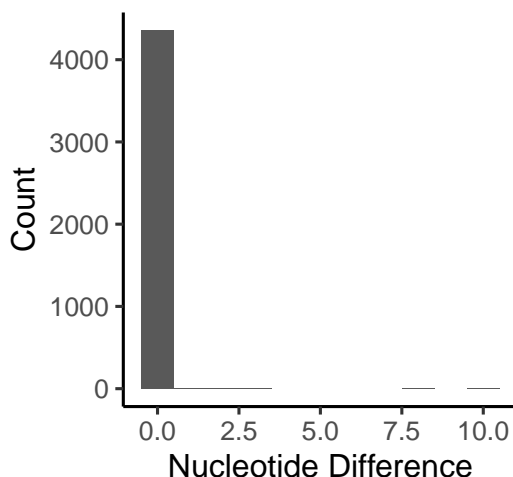
### TRBV24-1\*ap01

9590 sequences assigned  
9548 (99.6%) exact matches, in which:  
9537 unique CDR3  
13 unique J



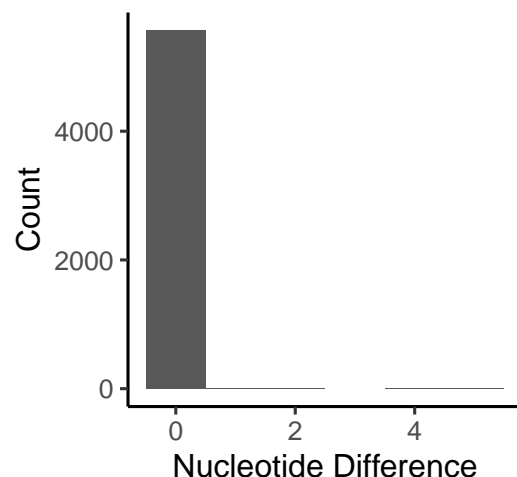
### TRBV25-1\*ap01

4374 sequences assigned  
4356 (99.6%) exact matches, in which:  
4353 unique CDR3  
13 unique J



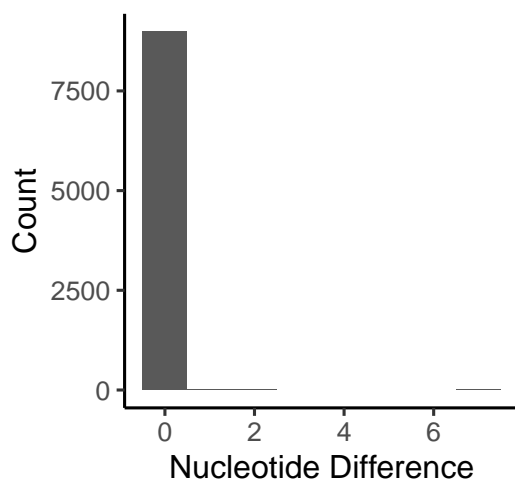
### TRBV5-4\*ap01

5581 sequences assigned  
5566 (99.7%) exact matches, in which:  
5566 unique CDR3  
13 unique J



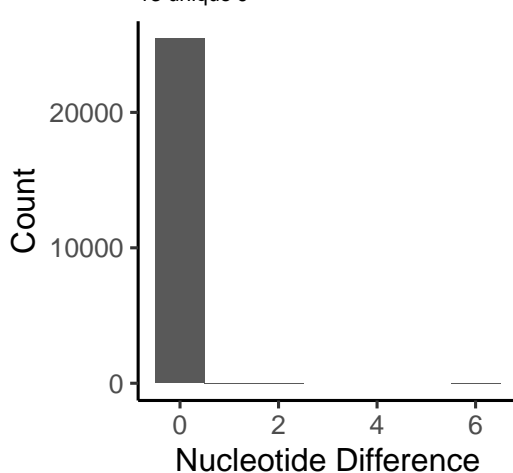
### TRBV4-1\*ap01

8998 sequences assigned  
8984 (99.8%) exact matches, in which:  
8982 unique CDR3  
13 unique J



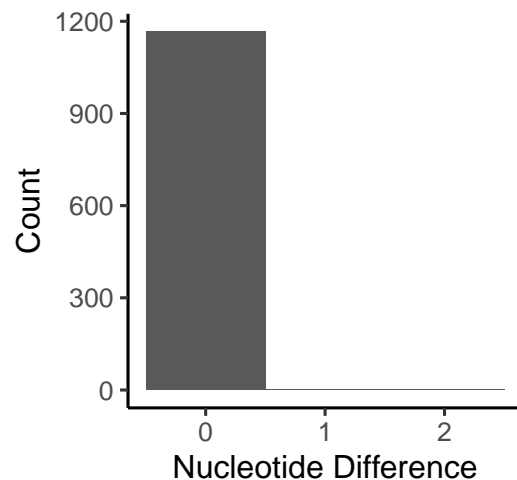
### TRBV5-1\*ap01

25494 sequences assigned  
25459 (99.9%) exact matches, in which:  
25444 unique CDR3  
13 unique J



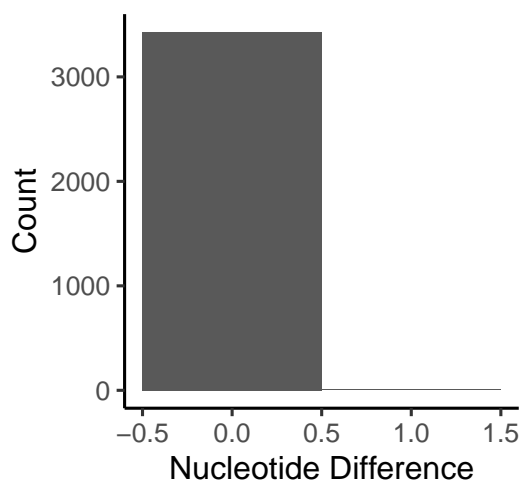
### TRBV5-5\*ap01

1169 sequences assigned  
1166 (99.7%) exact matches, in which:  
1164 unique CDR3  
13 unique J



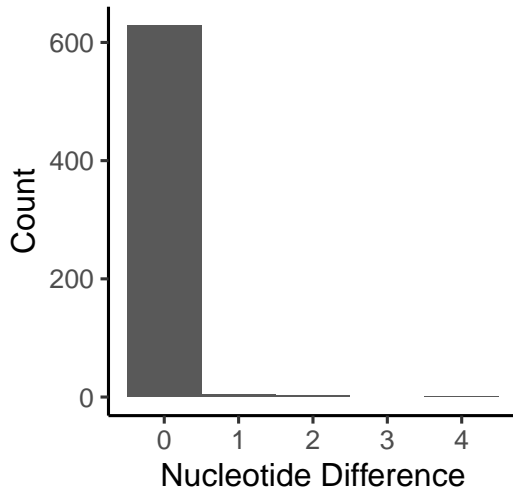
### TRBV4-2\*ap01

3437 sequences assigned  
3429 (99.8%) exact matches, in which:  
3427 unique CDR3  
13 unique J



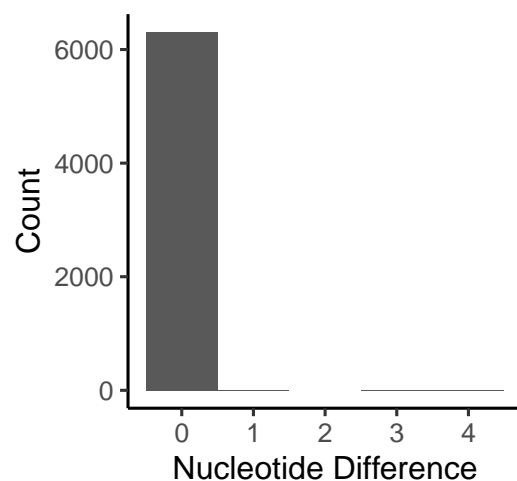
### TRBV5-3\*ap01

636 sequences assigned  
629 (98.9%) exact matches, in which:  
629 unique CDR3  
13 unique J



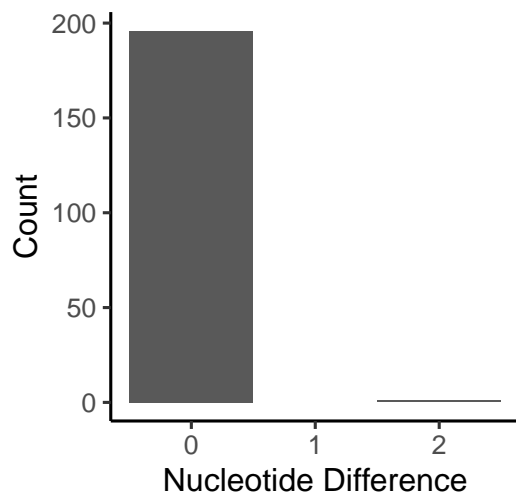
### TRBV5-6\*ap01

6321 sequences assigned  
6308 (99.8%) exact matches, in which:  
6299 unique CDR3  
13 unique J



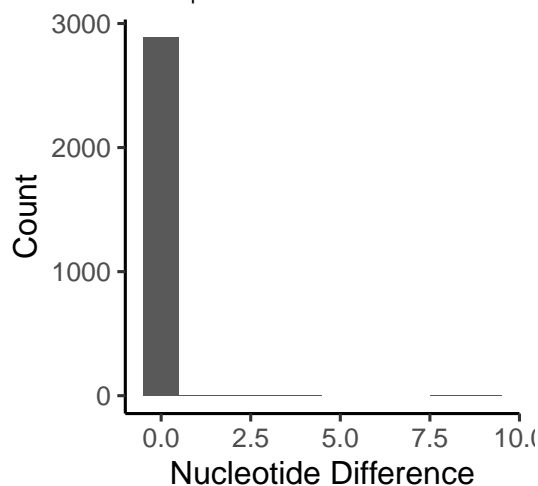
### TRBV5-7\*ap01

197 sequences assigned  
196 (99.5%) exact matches, in which:  
196 unique CDR3  
13 unique J



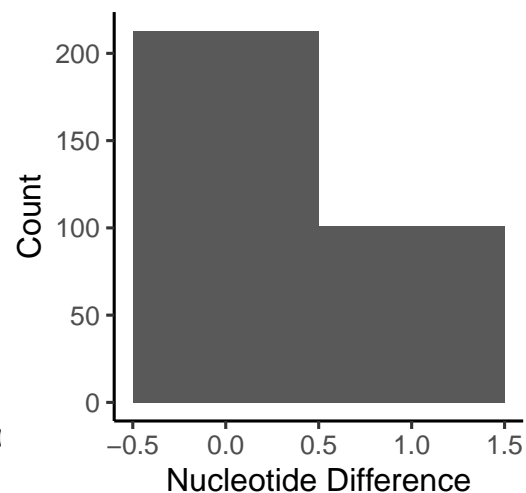
### TRBV6-4\*ap01

2906 sequences assigned  
2888 (99.4%) exact matches, in which:  
2888 unique CDR3  
13 unique J



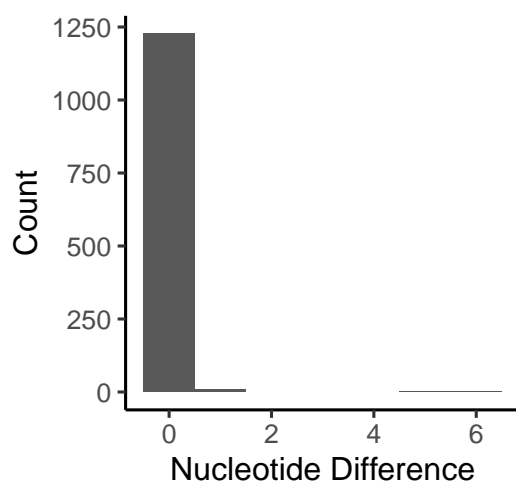
### TRBV6-9\*ap01

314 sequences assigned  
213 (67.8%) exact matches, in which:  
213 unique CDR3  
13 unique J



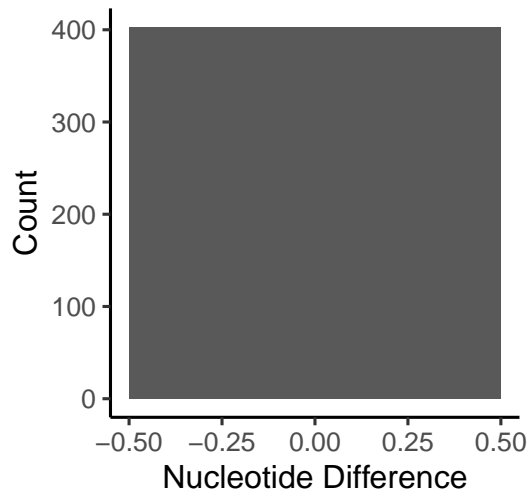
### TRBV5-8\*ap01

1236 sequences assigned  
1227 (99.3%) exact matches, in which:  
1226 unique CDR3  
13 unique J



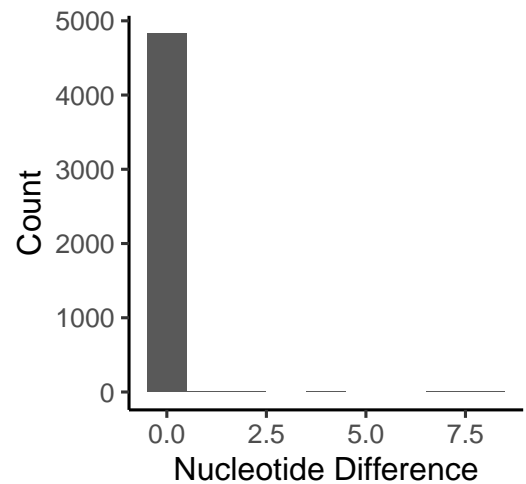
### TRBV6-7\*ap01

403 sequences assigned  
403 (100%) exact matches, in which:  
403 unique CDR3  
13 unique J



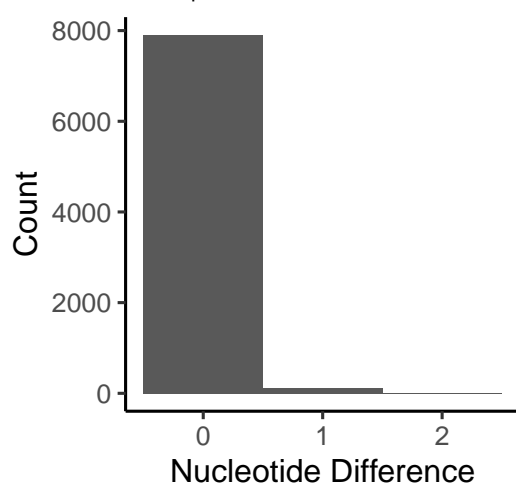
### TRBV6-23\*ap01

4842 sequences assigned  
4826 (99.7%) exact matches, in which:  
4825 unique CDR3  
13 unique J



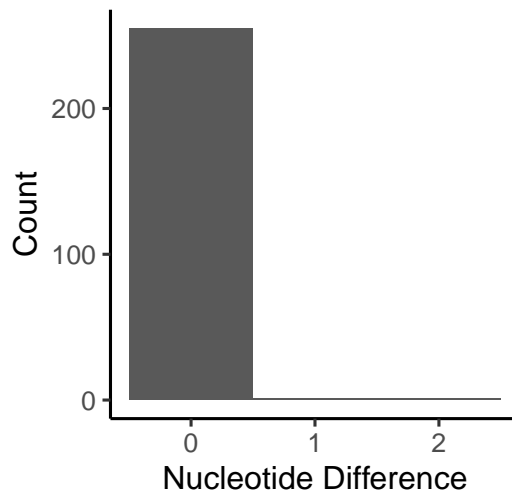
### TRBV6-1\*ap01

8024 sequences assigned  
7902 (98.5%) exact matches, in which:  
7896 unique CDR3  
13 unique J



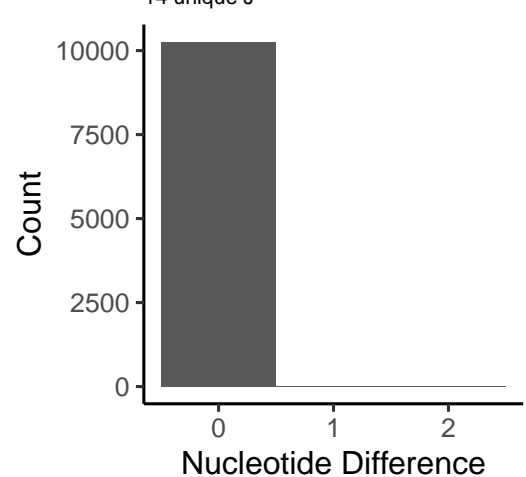
### TRBV6-8\*ap01

257 sequences assigned  
255 (99.2%) exact matches, in which:  
255 unique CDR3  
13 unique J



### TRBV6-56\*ap01

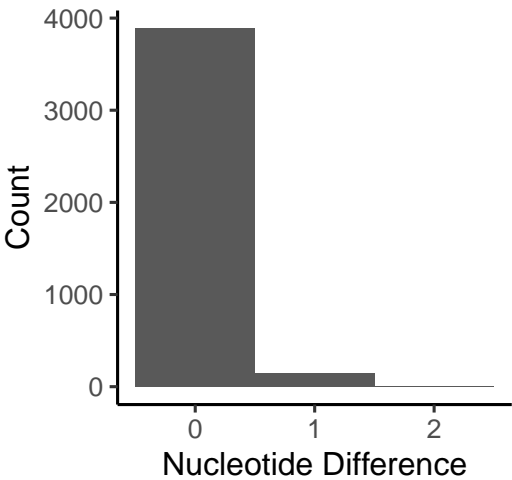
10280 sequences assigned  
10262 (99.8%) exact matches, in which:  
10255 unique CDR3  
14 unique J





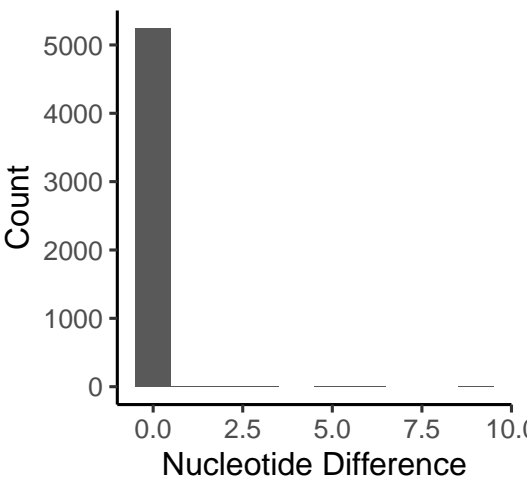
TRBV6-56\*ap02

4037 sequences assigned  
3888 (96.3%) exact matches, in which:  
3885 unique CDR3  
13 unique J



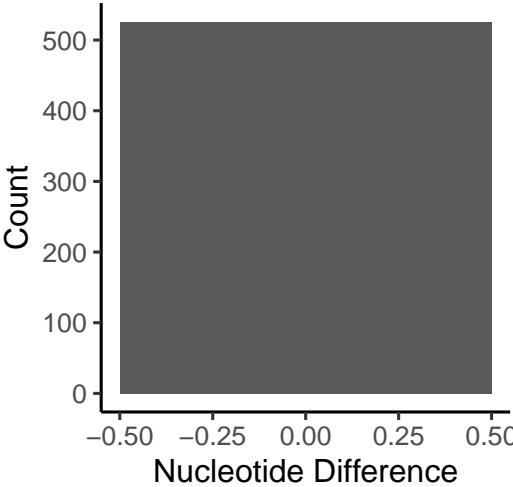
TRBV7-3\*ap01

5263 sequences assigned  
5242 (99.6%) exact matches, in which:  
5238 unique CDR3  
13 unique J



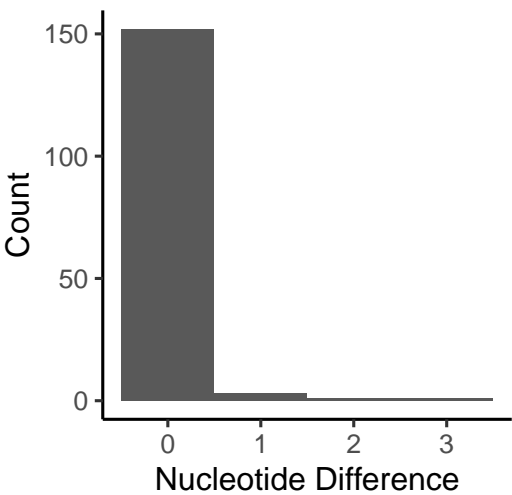
TRBV7-7\*ap01

526 sequences assigned  
526 (100%) exact matches, in which:  
526 unique CDR3  
12 unique J



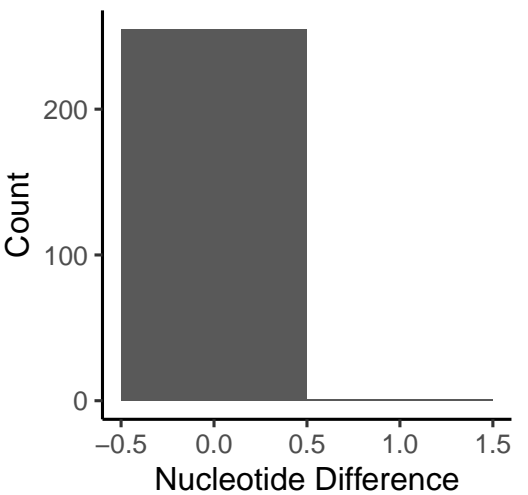
TRBV7-1\*ap01\_G291C\_

157 sequences assigned  
152 (96.8%) exact matches, in which:  
152 unique CDR3  
13 unique J



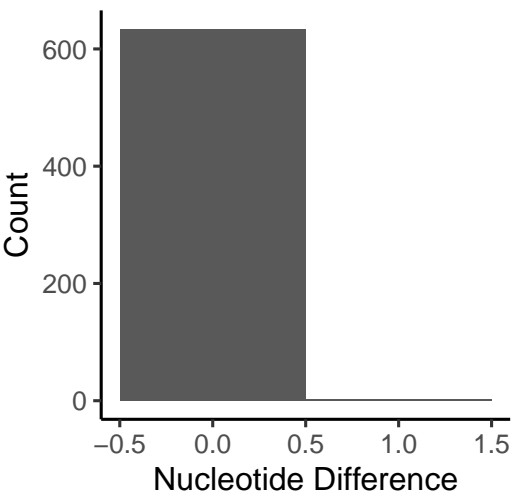
TRBV7-4\*ap01

256 sequences assigned  
255 (99.6%) exact matches, in which:  
255 unique CDR3  
13 unique J



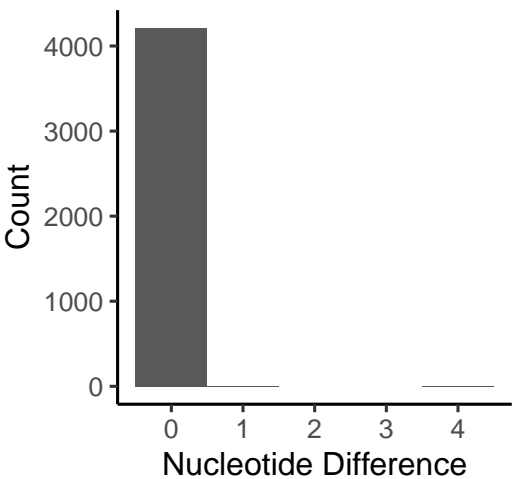
TRBV7-7\*ap01\_C315T

636 sequences assigned  
634 (99.7%) exact matches, in which:  
634 unique CDR3  
13 unique J



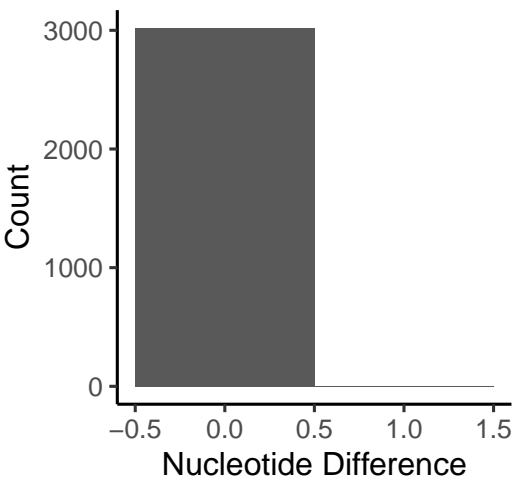
TRBV7-2\*ap01

4219 sequences assigned  
4211 (99.8%) exact matches, in which:  
4211 unique CDR3  
13 unique J



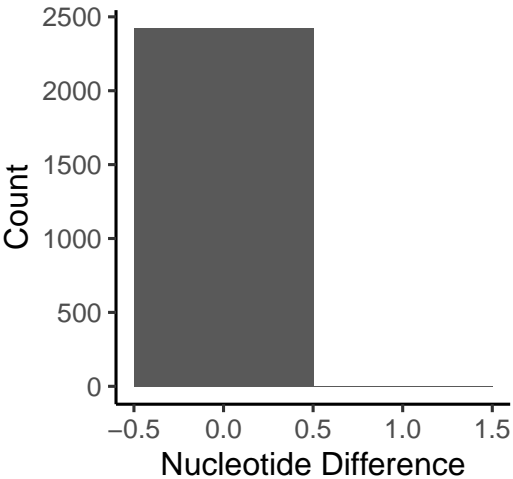
TRBV7-6\*ap01

3021 sequences assigned  
3019 (99.9%) exact matches, in which:  
3019 unique CDR3  
13 unique J



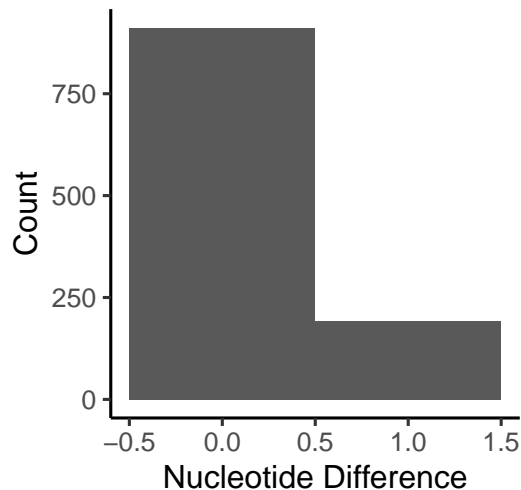
TRBV7-8\*ap01

2428 sequences assigned  
2424 (99.8%) exact matches, in which:  
2423 unique CDR3  
13 unique J



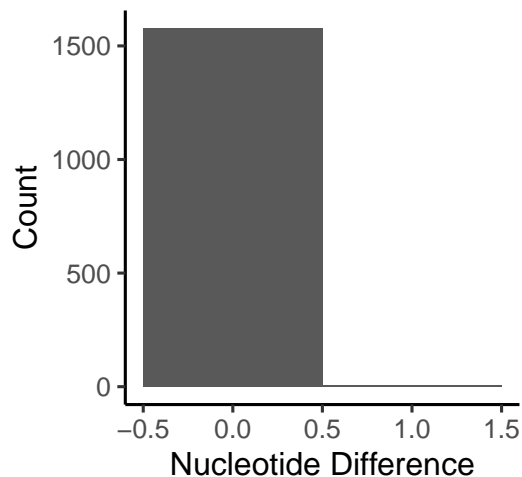
### TRBV7–8\*ap03

1105 sequences assigned  
912 (82.5%) exact matches, in which:  
912 unique CDR3  
13 unique J



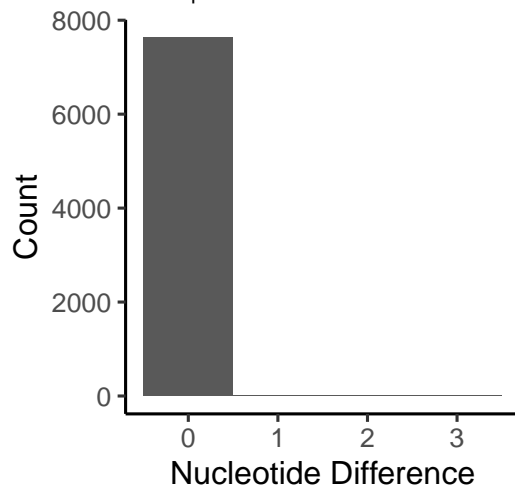
### TRBV29–1\*ap02

1583 sequences assigned  
1577 (99.6%) exact matches, in which:  
1572 unique CDR3  
13 unique J



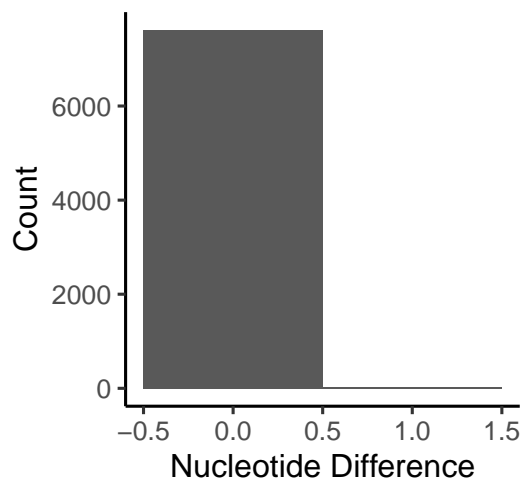
### TRBV7–9\*ap01

7641 sequences assigned  
7627 (99.8%) exact matches, in which:  
7627 unique CDR3  
13 unique J

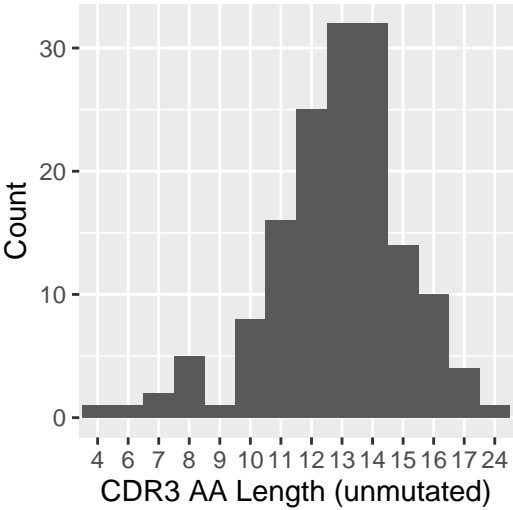


### TRBV29–1\*ap01

7638 sequences assigned  
7615 (99.7%) exact matches, in which:  
7590 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

