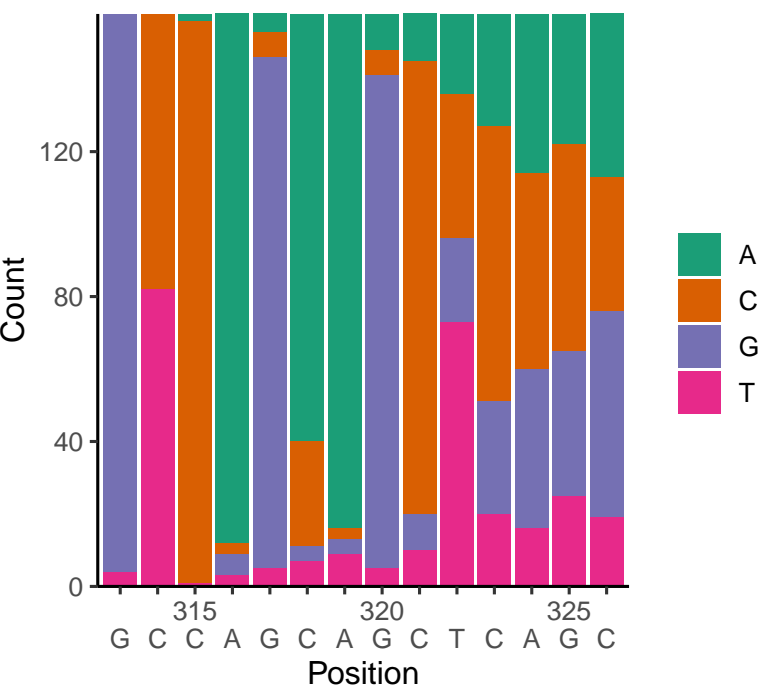
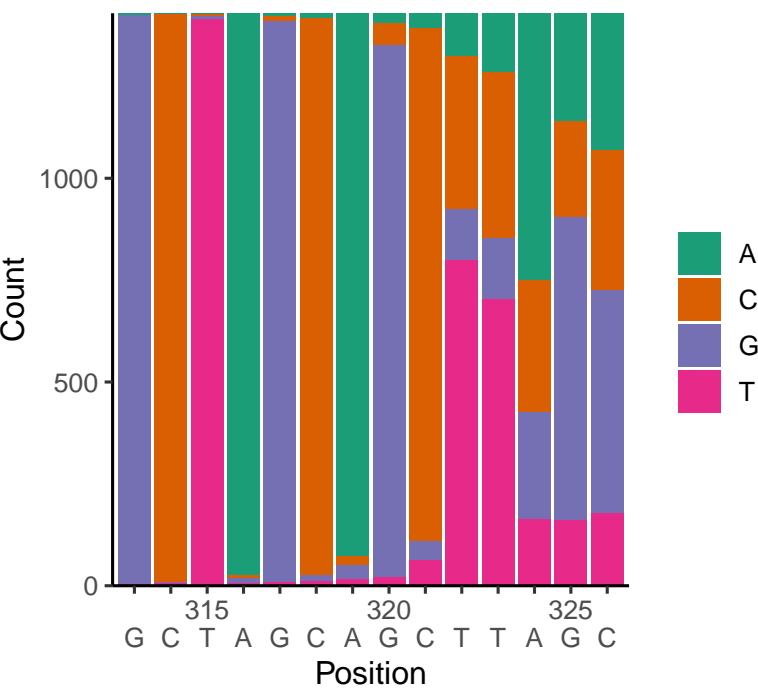


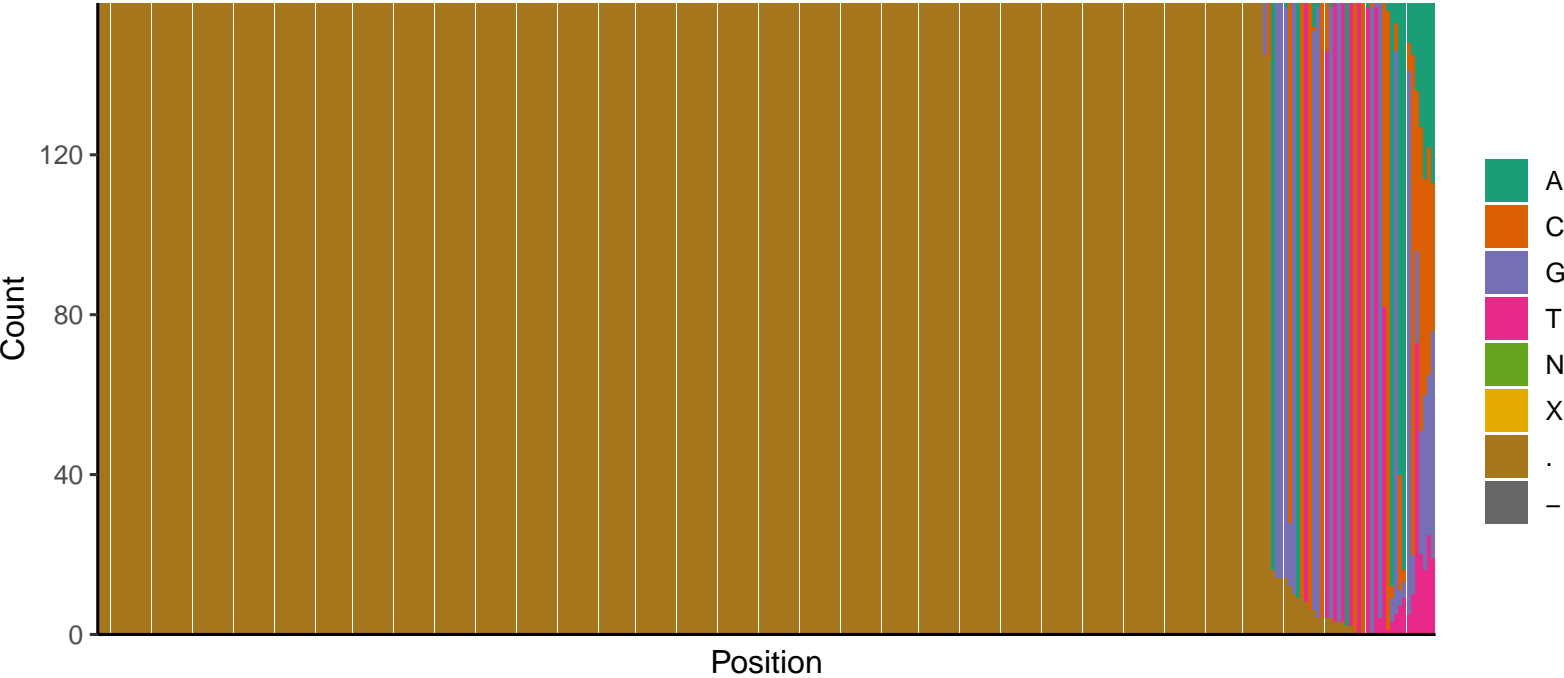
Gene TRBV7-1\*ap01\_T296C



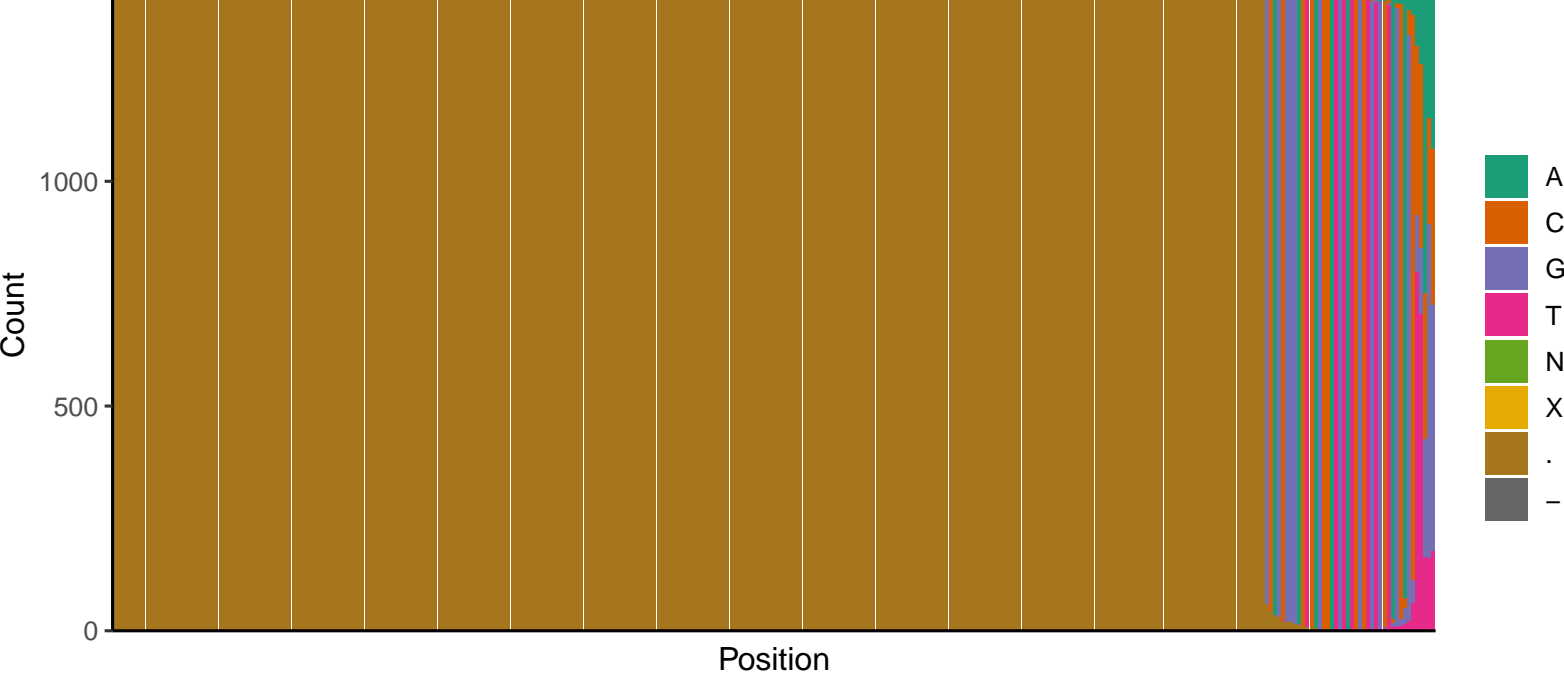
Gene TRBV7-7\*ap01\_C315T



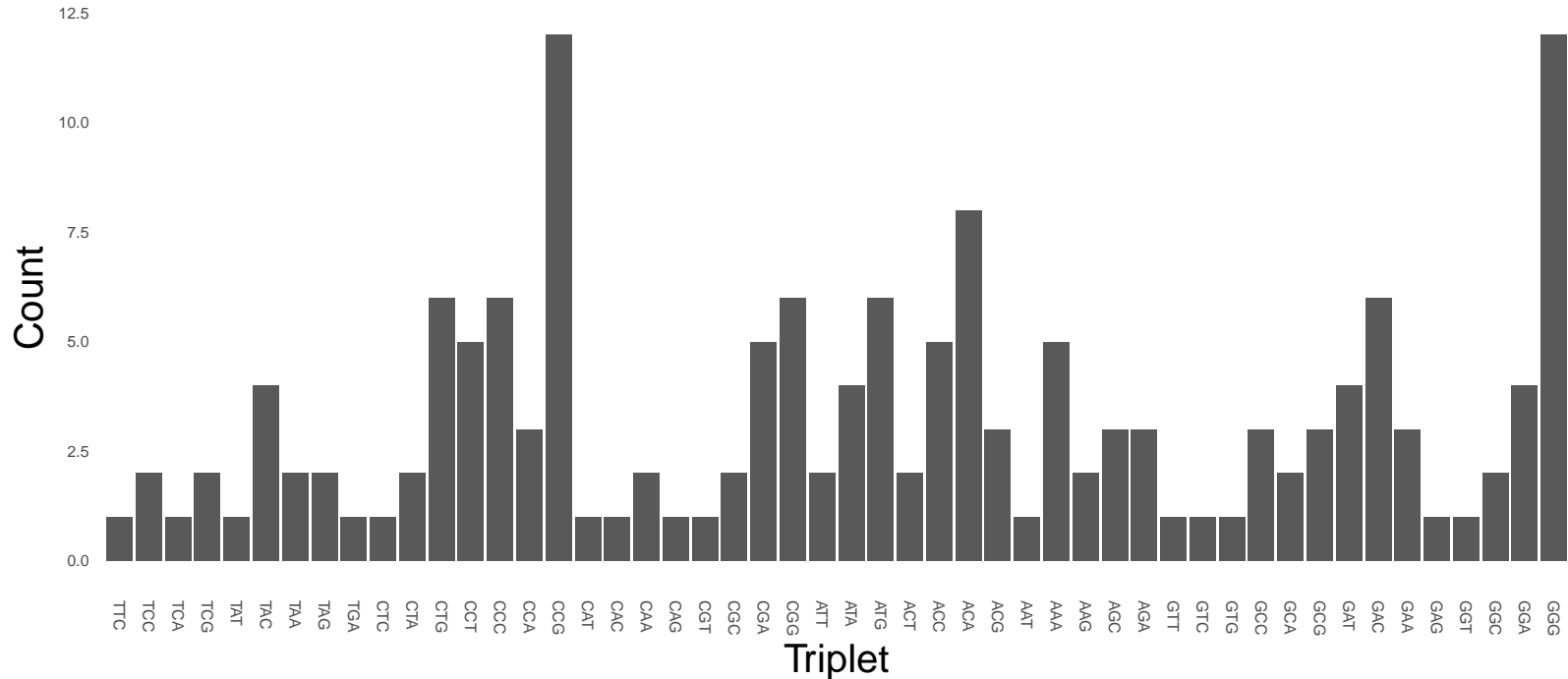
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



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

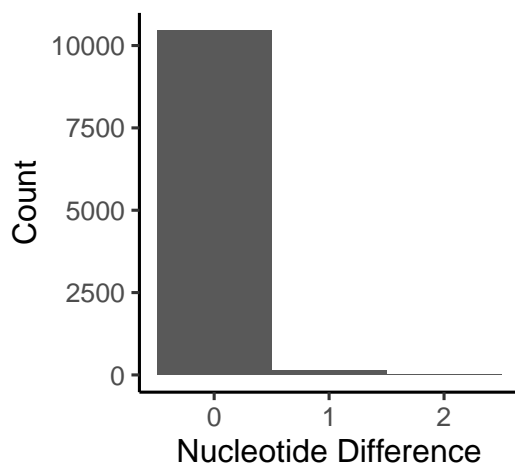


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



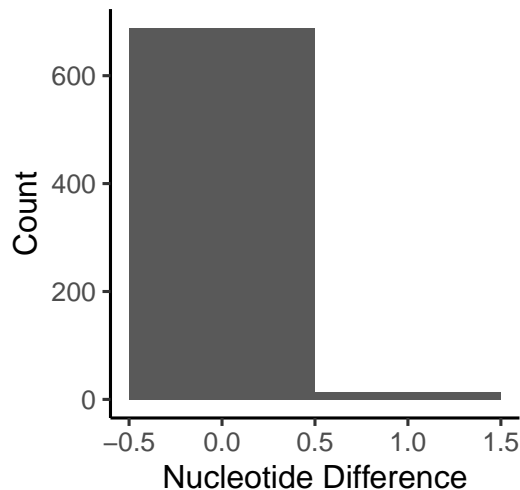
### TRBV20-1\*ap01

10603 sequences assigned  
10467 (98.7%) exact matches, in which:  
10245 unique CDR3  
13 unique J



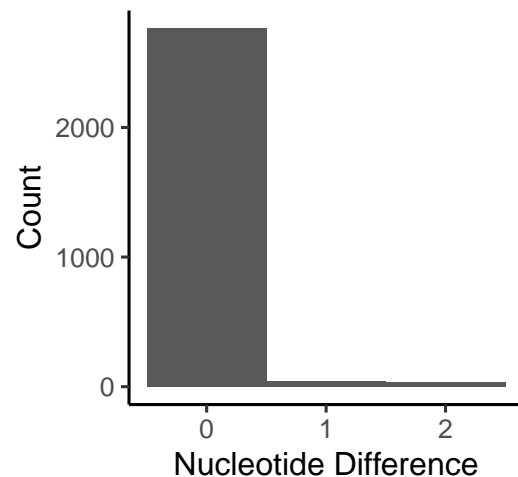
### TRBV10-2\*ap01

703 sequences assigned  
689 (98%) exact matches, in which:  
669 unique CDR3  
13 unique J



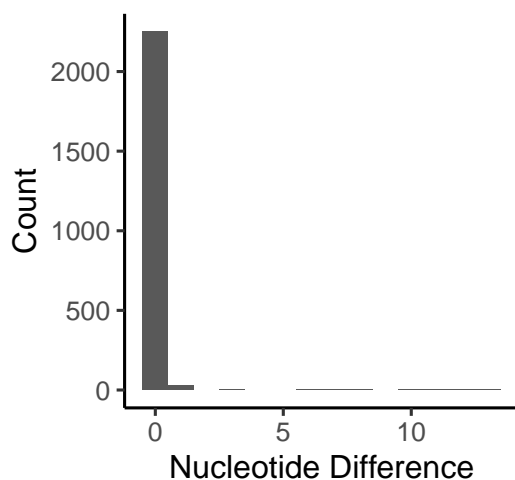
### TRBV13\*ap01

2848 sequences assigned  
2764 (97.1%) exact matches, in which:  
2682 unique CDR3  
13 unique J



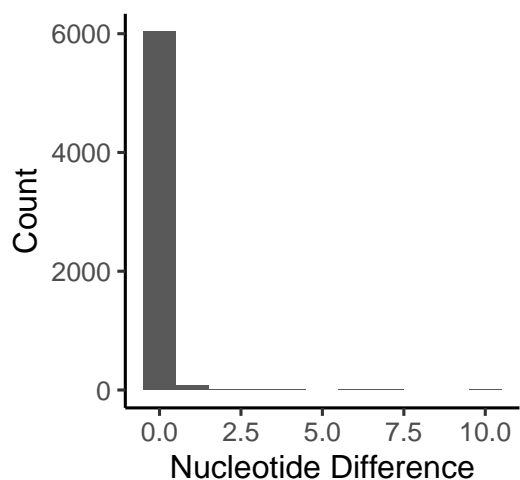
### TRBV10-1\*ap01

2288 sequences assigned  
2250 (98.3%) exact matches, in which:  
2198 unique CDR3  
13 unique J



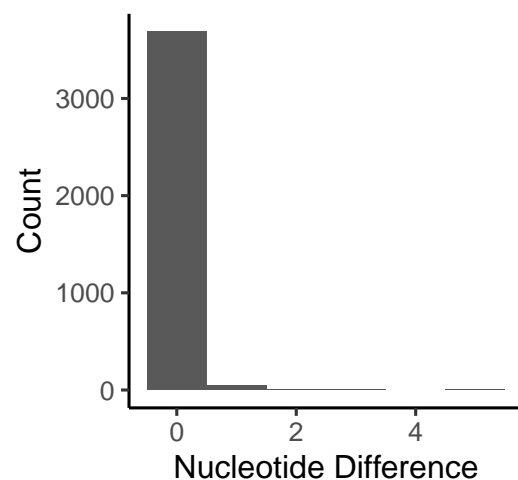
### TRBV10-3\*ap01

6122 sequences assigned  
6033 (98.5%) exact matches, in which:  
5884 unique CDR3  
13 unique J



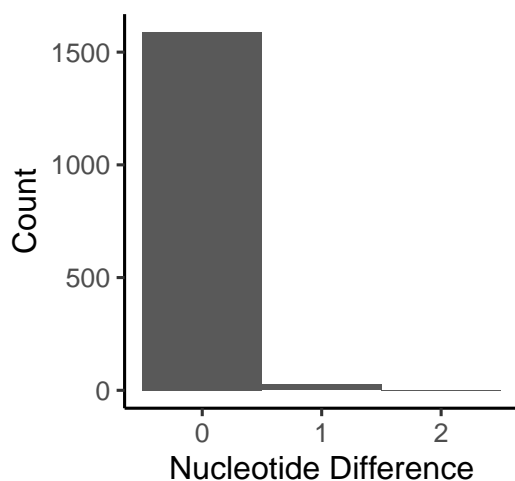
### TRBV14\*ap01

3739 sequences assigned  
3687 (98.6%) exact matches, in which:  
3617 unique CDR3  
13 unique J



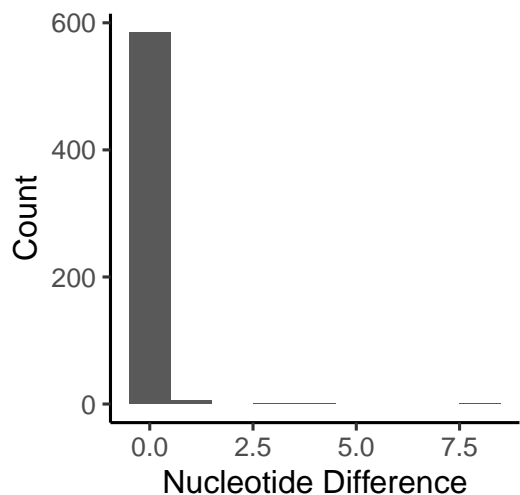
### TRBV20-1\*ap02

1616 sequences assigned  
1589 (98.3%) exact matches, in which:  
1555 unique CDR3  
13 unique J



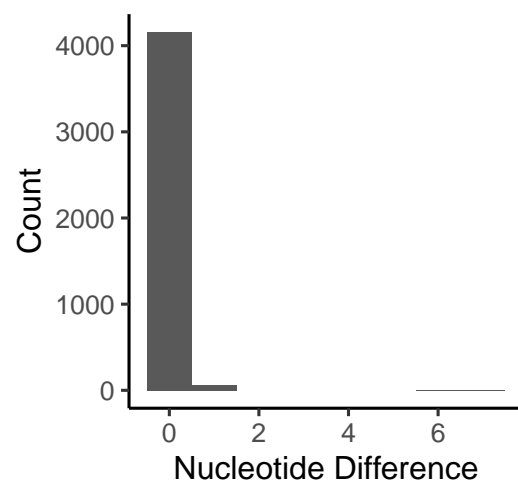
### TRBV1\*ap01

594 sequences assigned  
585 (98.5%) exact matches, in which:  
571 unique CDR3  
13 unique J



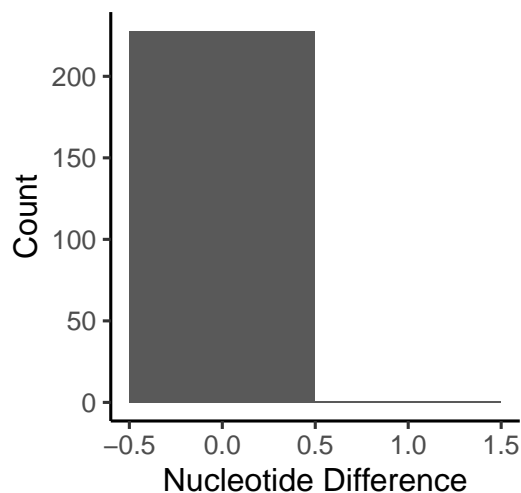
### TRBV15\*ap02

4220 sequences assigned  
4158 (98.5%) exact matches, in which:  
4049 unique CDR3  
13 unique J



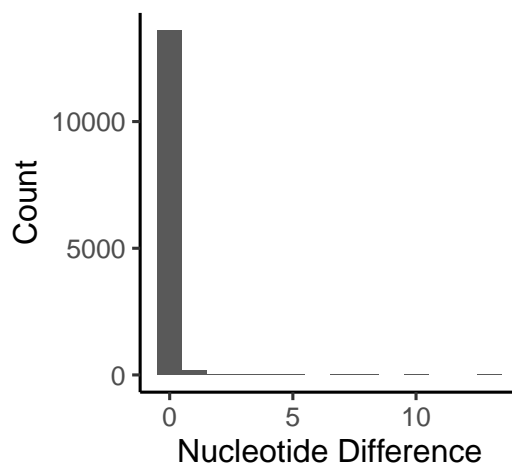
### TRBV16\*ap01

229 sequences assigned  
228 (99.6%) exact matches, in which:  
227 unique CDR3  
13 unique J



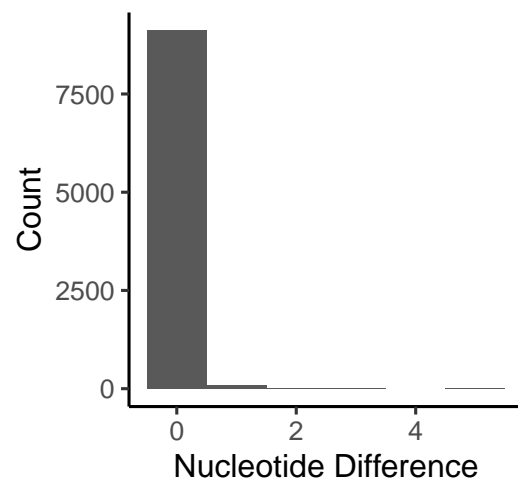
### TRBV19\*ap01

13798 sequences assigned  
13609 (98.6%) exact matches, in which:  
13408 unique CDR3  
13 unique J



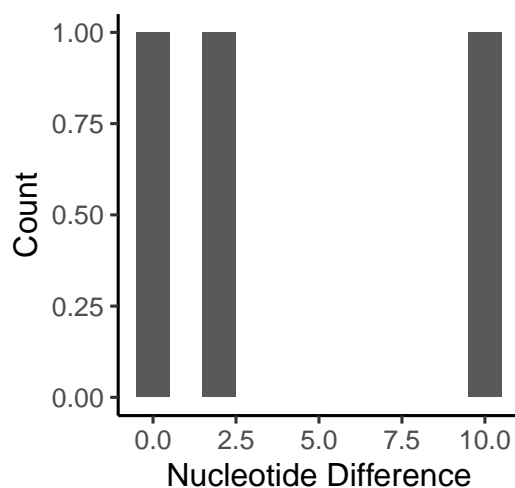
### TRBV28\*ap01

9217 sequences assigned  
9118 (98.9%) exact matches, in which:  
8961 unique CDR3  
13 unique J



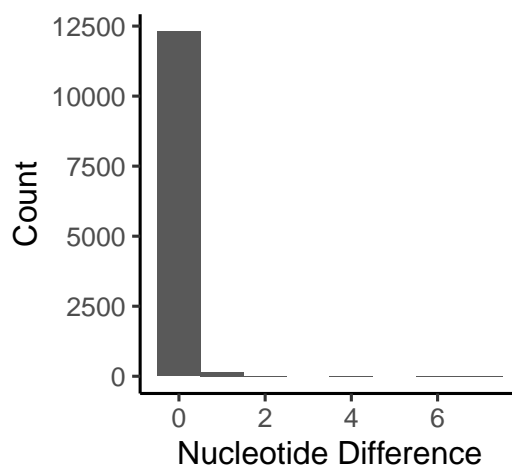
### TRBV17\*ap01

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



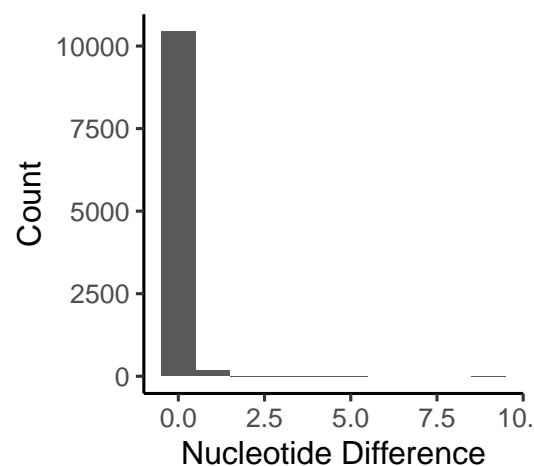
### TRBV2\*ap01

12471 sequences assigned  
12308 (98.7%) exact matches, in which:  
12036 unique CDR3  
13 unique J



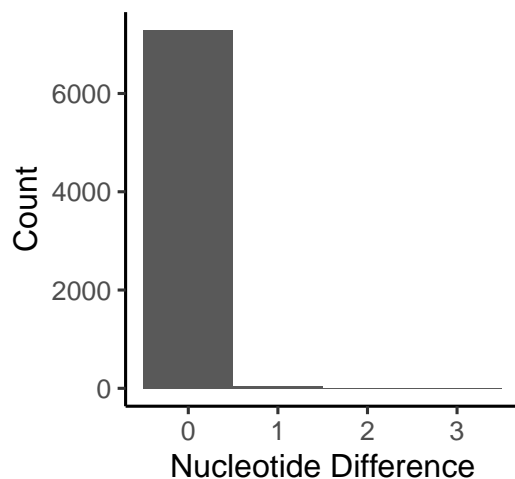
### TRBV30\*ap01

10626 sequences assigned  
10441 (98.3%) exact matches, in which:  
10296 unique CDR3  
13 unique J



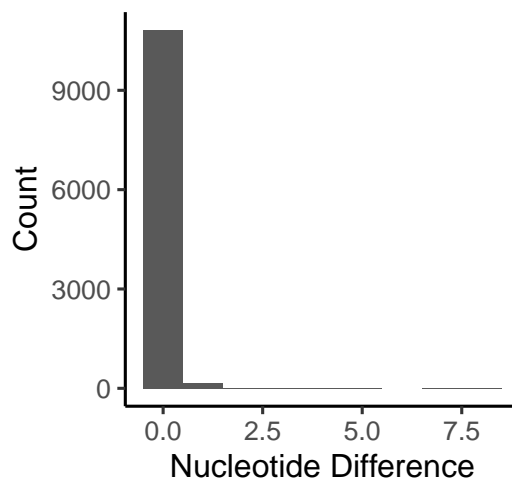
### TRBV18\*ap01

7346 sequences assigned  
7291 (99.3%) exact matches, in which:  
7174 unique CDR3  
13 unique J



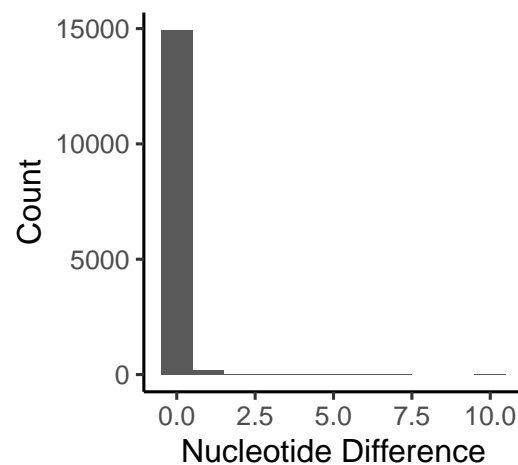
### TRBV27\*ap01

10991 sequences assigned  
10820 (98.4%) exact matches, in which:  
10545 unique CDR3  
13 unique J



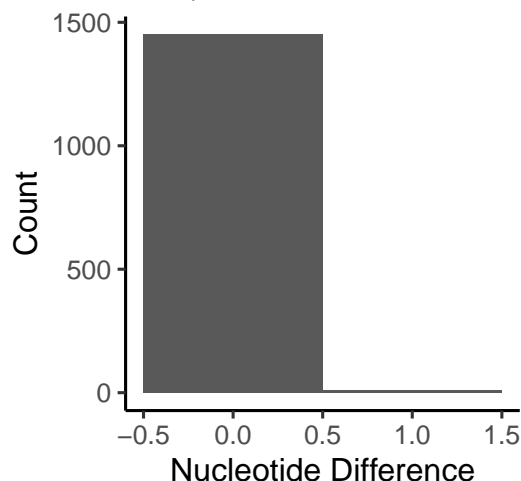
### TRBV9\*ap01

15136 sequences assigned  
14947 (98.8%) exact matches, in which:  
14621 unique CDR3  
13 unique J



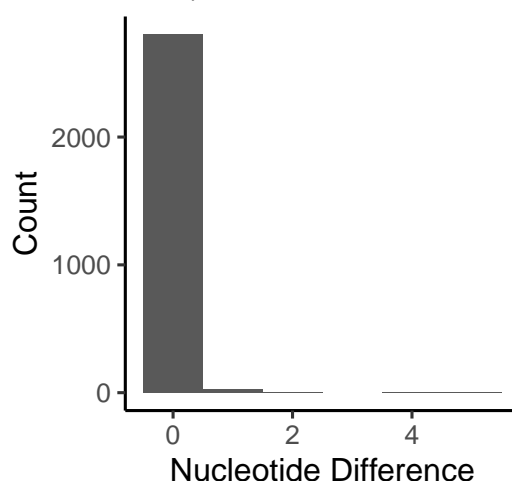
### TRBV11-1\*ap01

1463 sequences assigned  
1451 (99.2%) exact matches, in which:  
1417 unique CDR3  
13 unique J



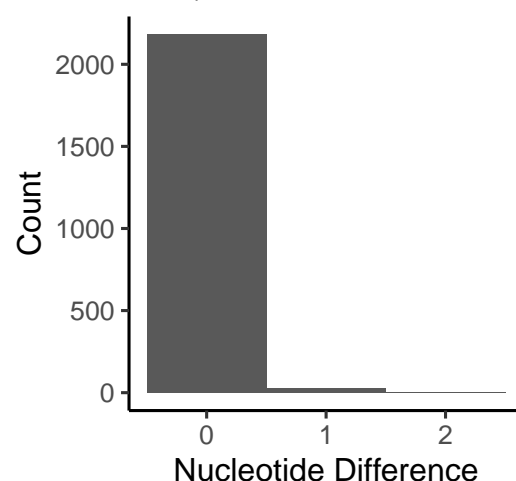
### TRBV11-3\*ap01

2839 sequences assigned  
2803 (98.7%) exact matches, in which:  
2761 unique CDR3  
13 unique J



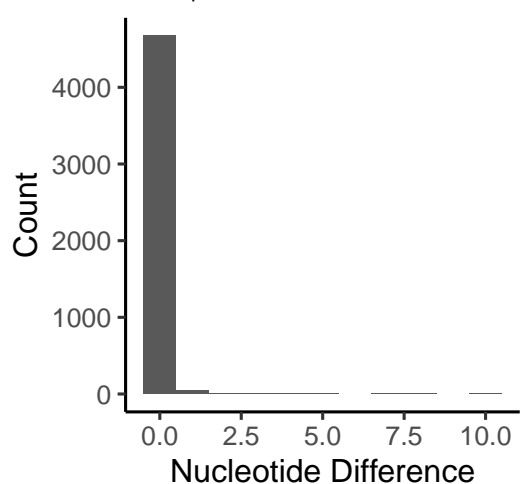
### TRBV12-5\*ap01

2216 sequences assigned  
2182 (98.5%) exact matches, in which:  
2126 unique CDR3  
13 unique J



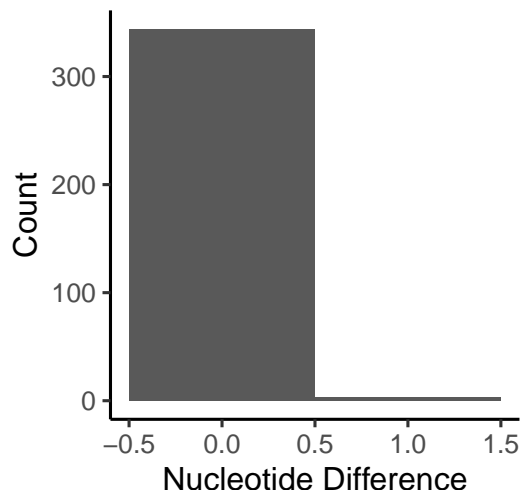
### TRBV21-1\*ap01

4734 sequences assigned  
4673 (98.7%) exact matches, in which:  
4581 unique CDR3  
13 unique J



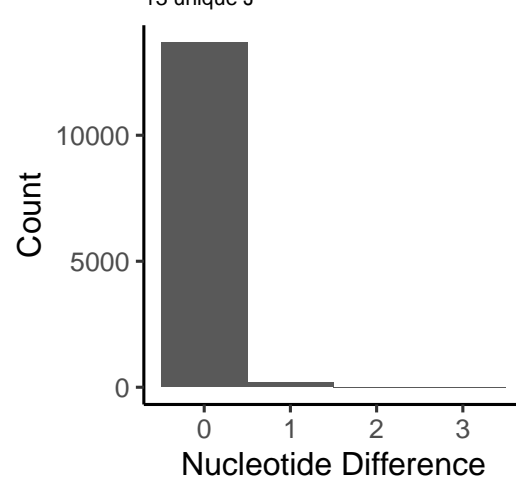
### TRBV12-1\*ap01

347 sequences assigned  
344 (99.1%) exact matches, in which:  
339 unique CDR3  
13 unique J



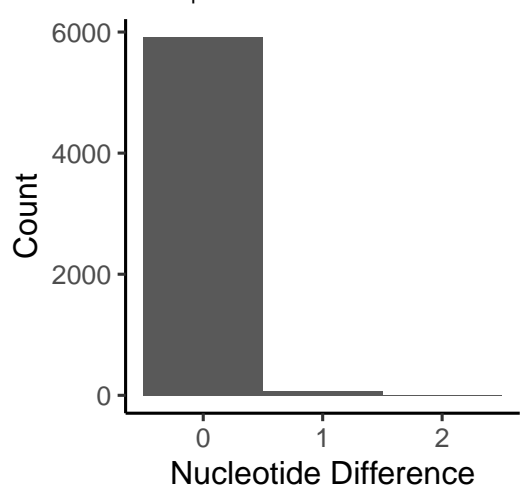
### TRBV12-34\*ap01

13873 sequences assigned  
13682 (98.6%) exact matches, in which:  
13406 unique CDR3  
13 unique J



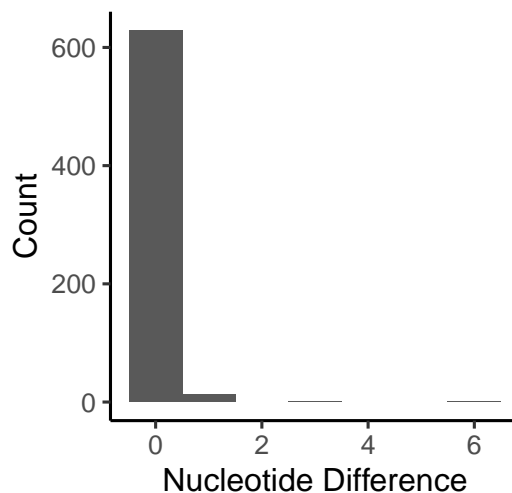
### TRBV11-2\*ap01

5987 sequences assigned  
5917 (98.8%) exact matches, in which:  
5772 unique CDR3  
13 unique J



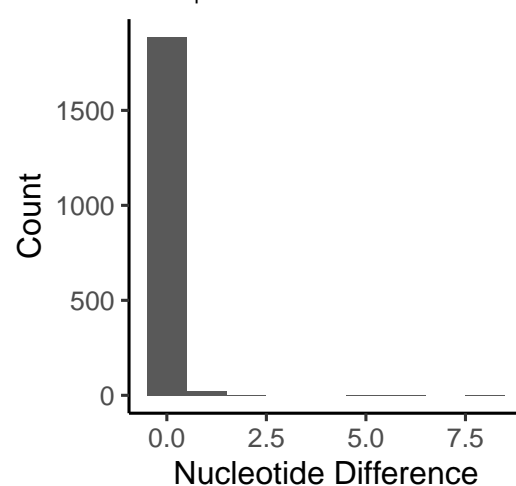
### TRBV12-2\*ap01

643 sequences assigned  
629 (97.8%) exact matches, in which:  
612 unique CDR3  
13 unique J



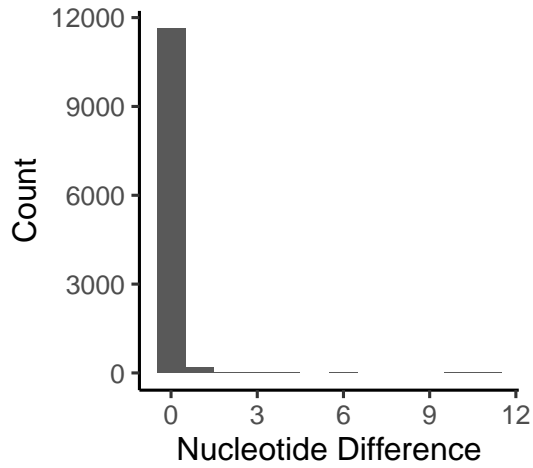
### TRBV23-1\*ap01

1915 sequences assigned  
1886 (98.5%) exact matches, in which:  
1848 unique CDR3  
13 unique J



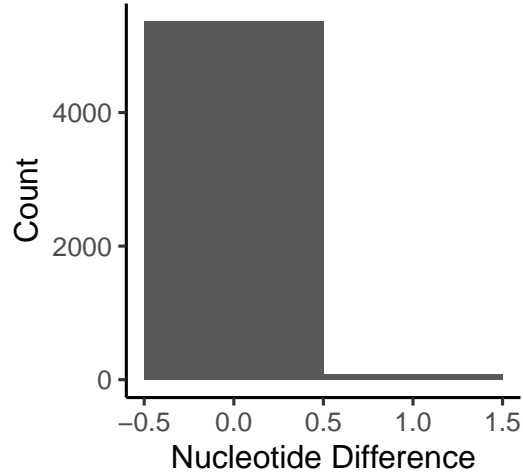
### TRBV3-12\*ap01

11837 sequences assigned  
11644 (98.4%) exact matches, in which:  
11412 unique CDR3  
13 unique J



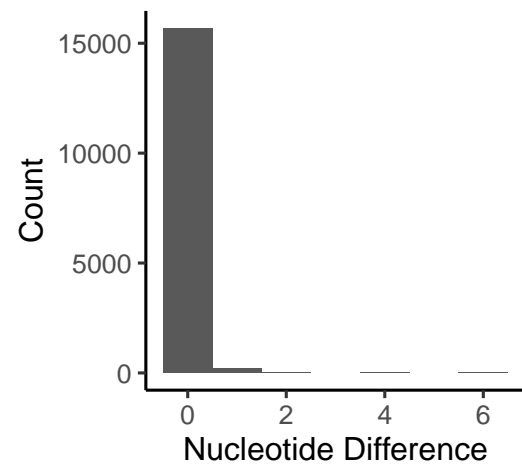
### TRBV4-2\*ap01

5449 sequences assigned  
5365 (98.5%) exact matches, in which:  
5244 unique CDR3  
13 unique J



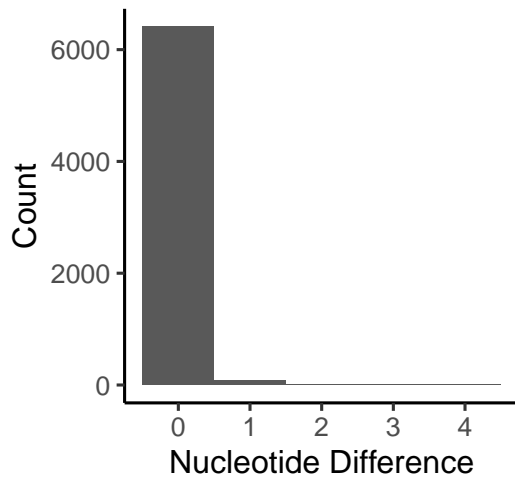
### TRBV5-1\*ap01

15879 sequences assigned  
15687 (98.8%) exact matches, in which:  
15307 unique CDR3  
13 unique J



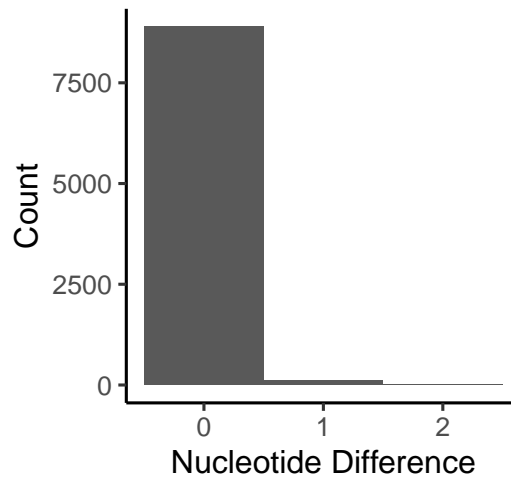
### TRBV4-1\*ap01

6488 sequences assigned  
6410 (98.8%) exact matches, in which:  
6268 unique CDR3  
13 unique J



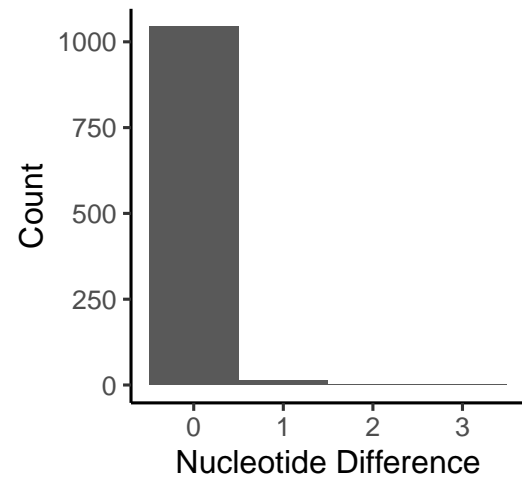
### TRBV4-3\*ap01

8999 sequences assigned  
8892 (98.8%) exact matches, in which:  
8654 unique CDR3  
13 unique J



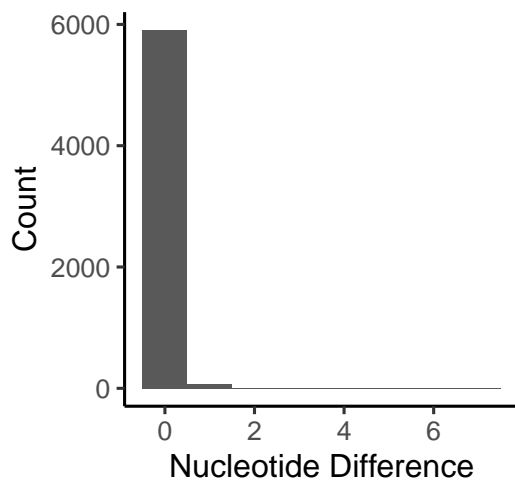
### TRBV5-3\*ap01

1061 sequences assigned  
1044 (98.4%) exact matches, in which:  
1026 unique CDR3  
13 unique J



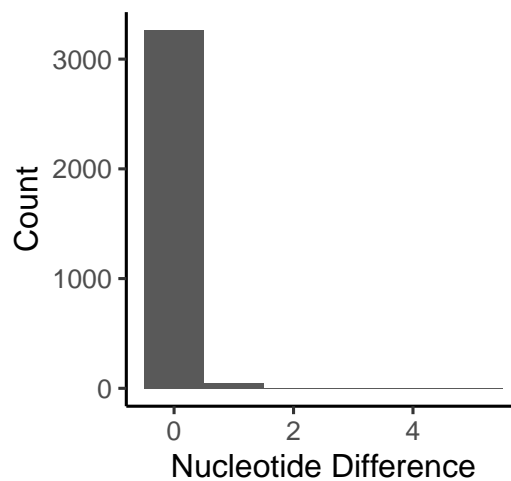
### TRBV24-1\*ap01

5992 sequences assigned  
5907 (98.6%) exact matches, in which:  
5798 unique CDR3  
13 unique J



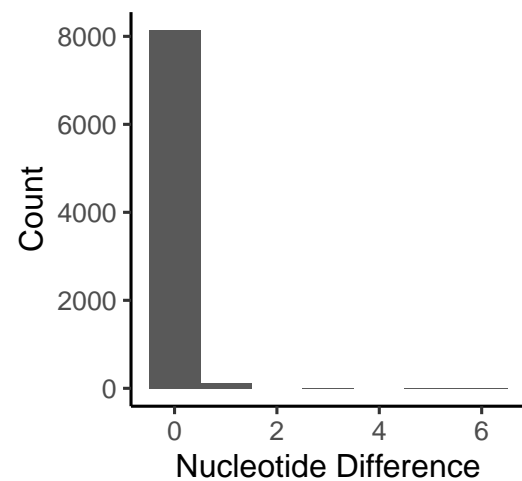
### TRBV25-1\*ap01

3322 sequences assigned  
3265 (98.3%) exact matches, in which:  
3206 unique CDR3  
13 unique J



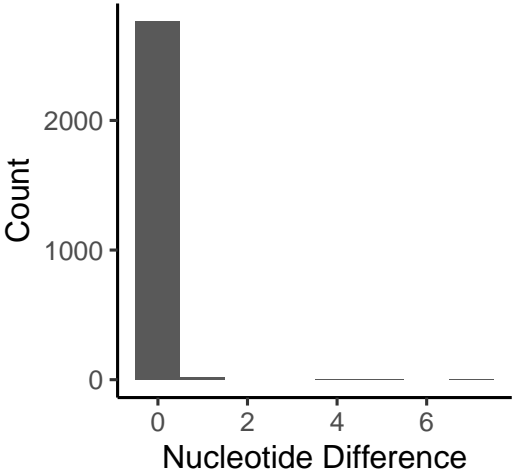
### TRBV5-4\*ap01

8265 sequences assigned  
8143 (98.5%) exact matches, in which:  
7937 unique CDR3  
13 unique J



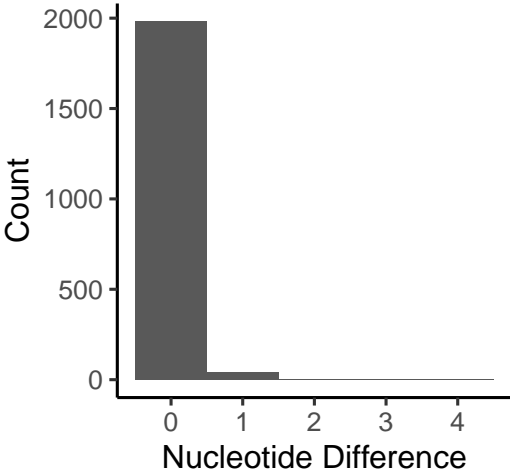
TRBV5-5\*ap01

2789 sequences assigned  
2764 (99.1%) exact matches, in which:  
2736 unique CDR3  
13 unique J



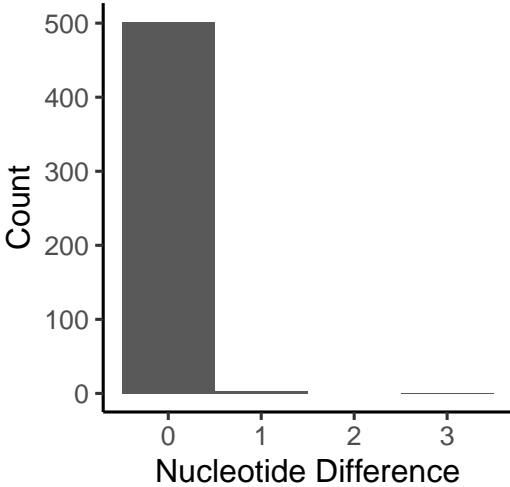
TRBV5-8\*ap01

2030 sequences assigned  
1982 (97.6%) exact matches, in which:  
1925 unique CDR3  
13 unique J



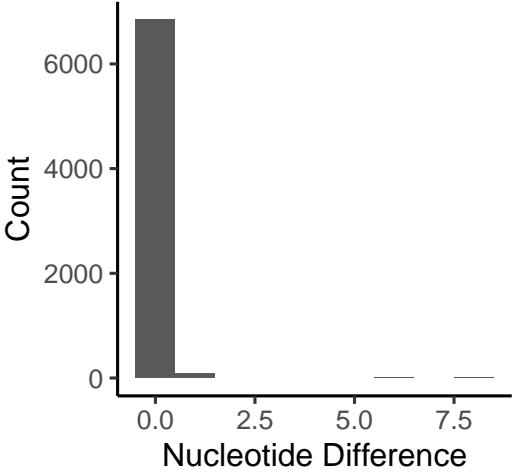
TRBV6-7\*ap01

506 sequences assigned  
502 (99.2%) exact matches, in which:  
487 unique CDR3  
13 unique J



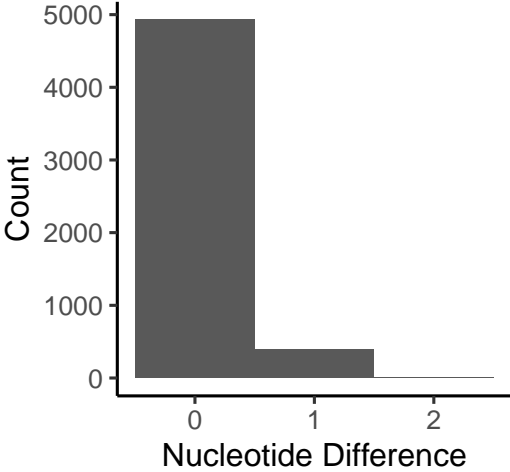
TRBV5-6\*ap01

6936 sequences assigned  
6844 (98.7%) exact matches, in which:  
6665 unique CDR3  
13 unique J



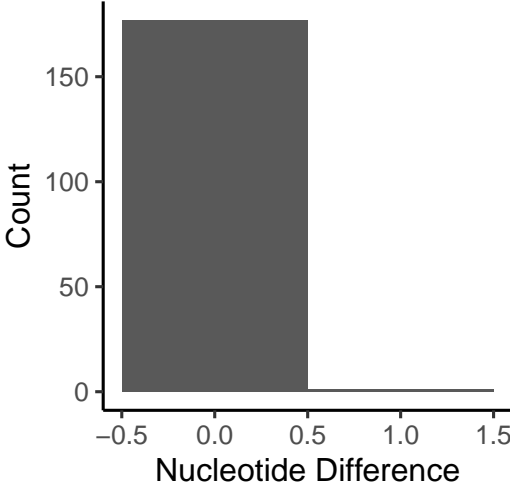
TRBV6-1\*ap01

5327 sequences assigned  
4930 (92.5%) exact matches, in which:  
4793 unique CDR3  
13 unique J



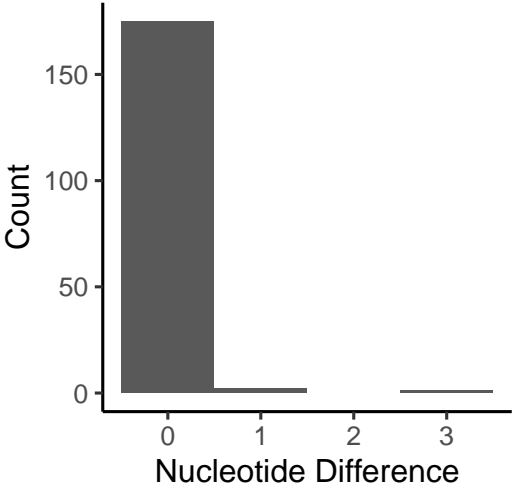
TRBV6-8\*ap01

178 sequences assigned  
177 (99.4%) exact matches, in which:  
175 unique CDR3  
12 unique J



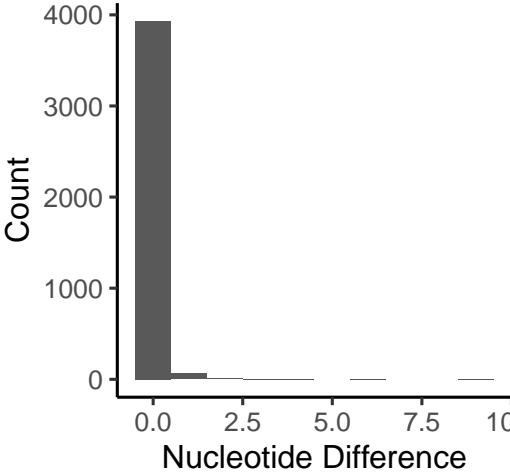
TRBV5-7\*ap01

178 sequences assigned  
175 (98.3%) exact matches, in which:  
172 unique CDR3  
12 unique J



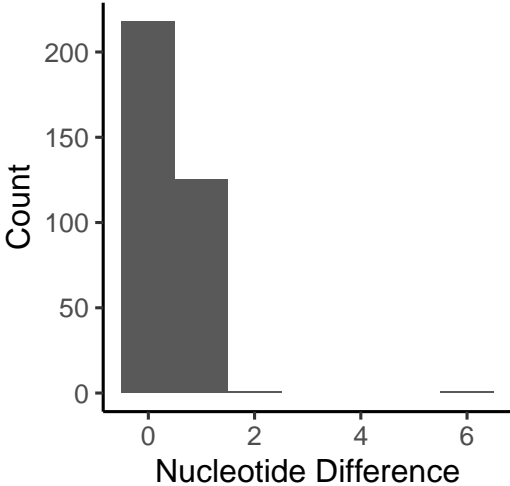
TRBV6-4\*ap01

4013 sequences assigned  
3932 (98%) exact matches, in which:  
3864 unique CDR3  
13 unique J



TRBV6-9\*ap01

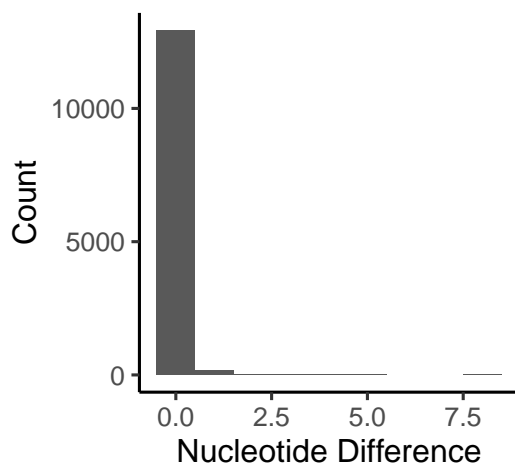
345 sequences assigned  
218 (63.2%) exact matches, in which:  
214 unique CDR3  
13 unique J





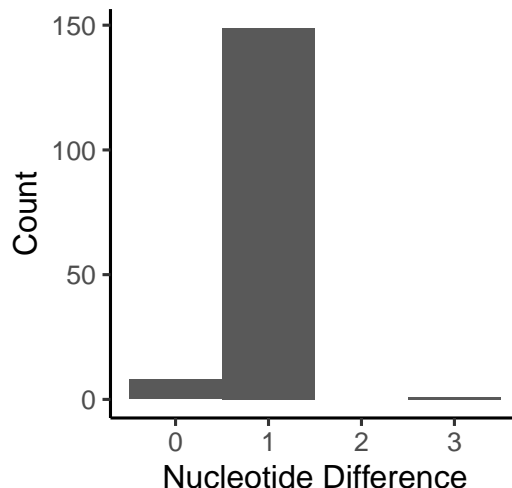
### TRBV6-23\*ap01

13118 sequences assigned  
12937 (98.6%) exact matches, in which:  
12639 unique CDR3  
13 unique J



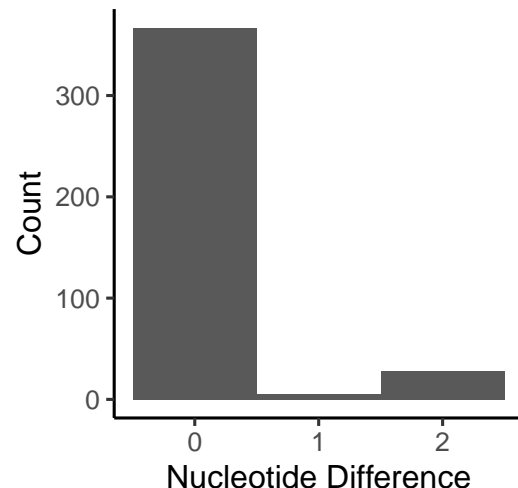
### TRBV7-1\*ap01\_T296C

158 sequences assigned  
8 (5.1%) exact matches, in which:  
8 unique CDR3  
3 unique J



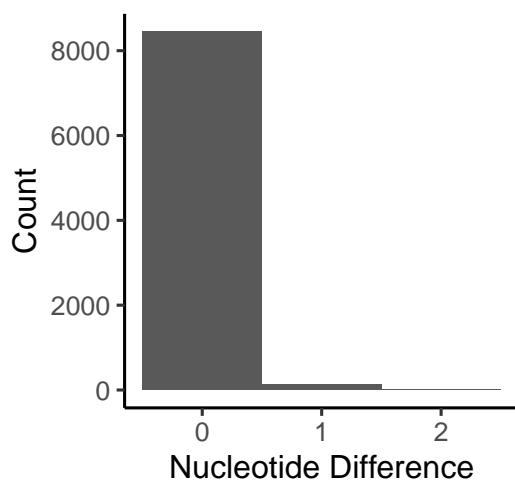
### TRBV7-4\*ap01

400 sequences assigned  
367 (91.8%) exact matches, in which:  
360 unique CDR3  
13 unique J



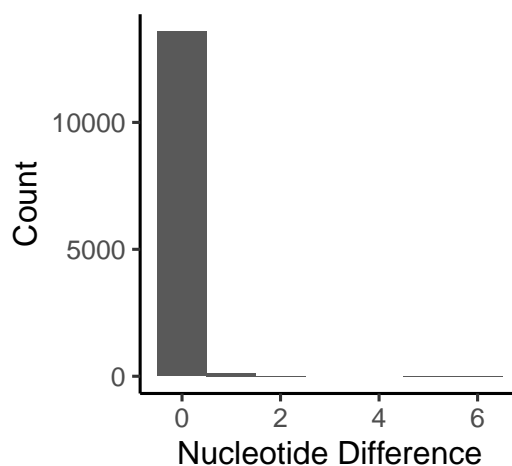
### TRBV6-56\*ap01

8570 sequences assigned  
8447 (98.6%) exact matches, in which:  
8231 unique CDR3  
13 unique J



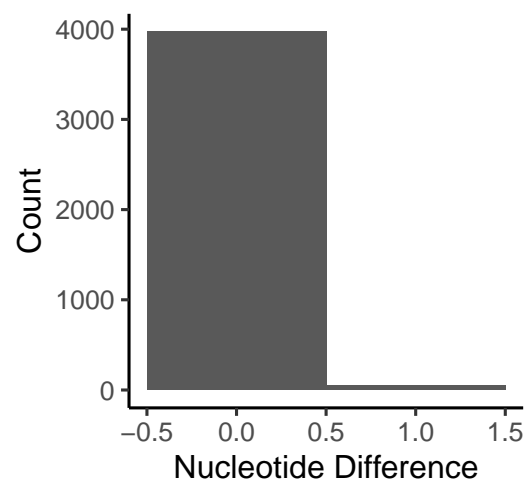
### TRBV7-2\*ap01

13717 sequences assigned  
13582 (99%) exact matches, in which:  
13308 unique CDR3  
13 unique J



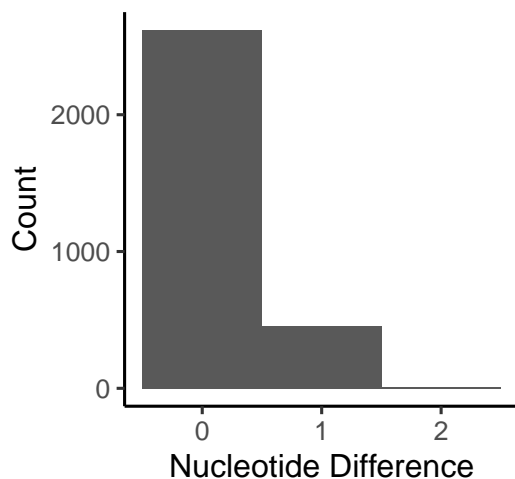
### TRBV7-6\*ap01

4019 sequences assigned  
3972 (98.8%) exact matches, in which:  
3843 unique CDR3  
13 unique J



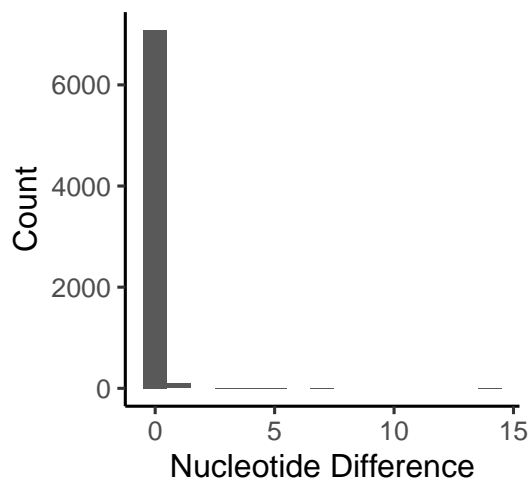
### TRBV6-56\*ap02

3082 sequences assigned  
2619 (85%) exact matches, in which:  
2564 unique CDR3  
13 unique J



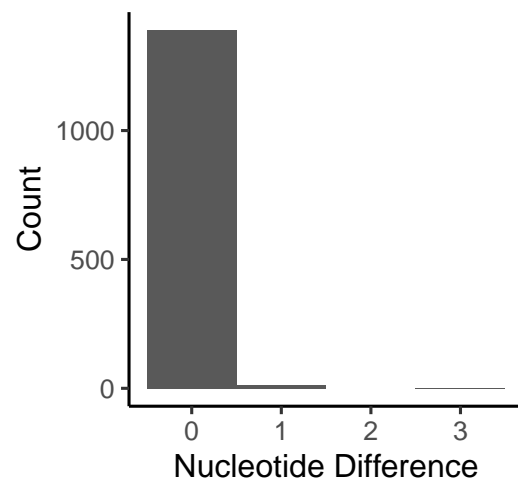
### TRBV7-3\*ap01

7185 sequences assigned  
7084 (98.6%) exact matches, in which:  
6965 unique CDR3  
13 unique J



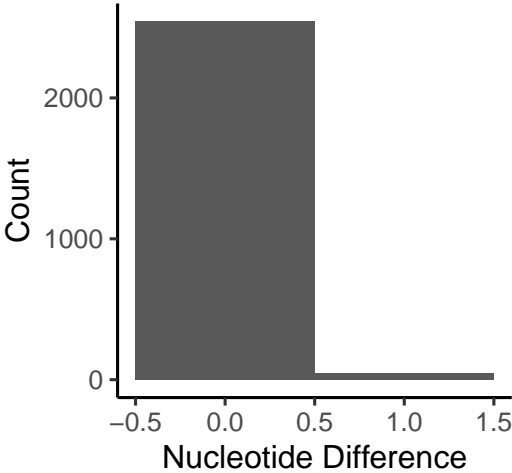
### TRBV7-7\*ap01\_C315T

1405 sequences assigned  
1390 (98.9%) exact matches, in which:  
1365 unique CDR3  
13 unique J



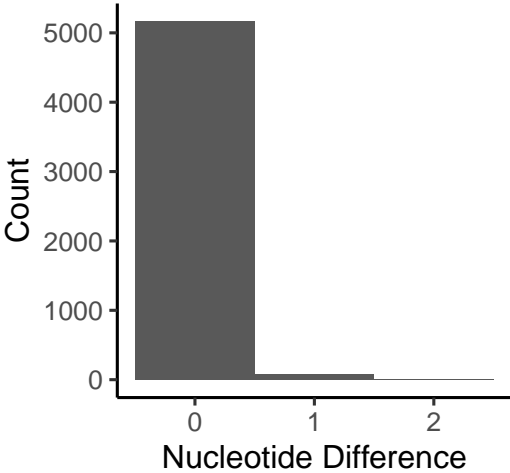
TRBV7-8\*ap01

2588 sequences assigned  
2543 (98.3%) exact matches, in which:  
2482 unique CDR3  
13 unique J



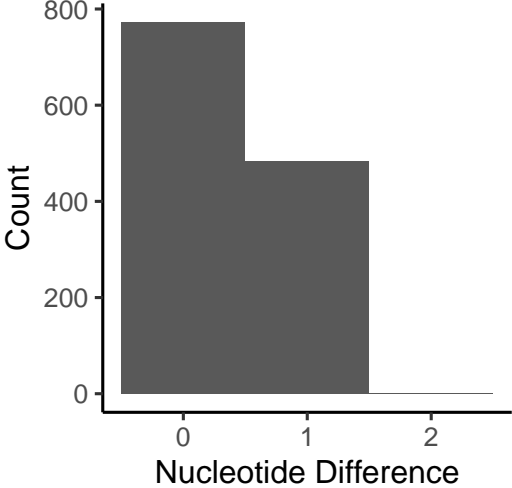
TRBV29-1\*ap01

5241 sequences assigned  
5165 (98.5%) exact matches, in which:  
5062 unique CDR3  
13 unique J



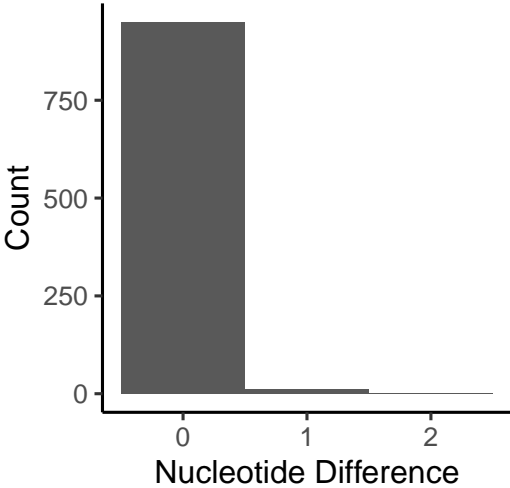
TRBV7-8\*ap03

1259 sequences assigned  
773 (61.4%) exact matches, in which:  
754 unique CDR3  
13 unique J



TRBV29-1\*ap02

964 sequences assigned  
950 (98.5%) exact matches, in which:  
922 unique CDR3  
13 unique J



TRBV7-9\*ap01

15149 sequences assigned  
14973 (98.8%) exact matches, in which:  
14683 unique CDR3  
13 unique J

