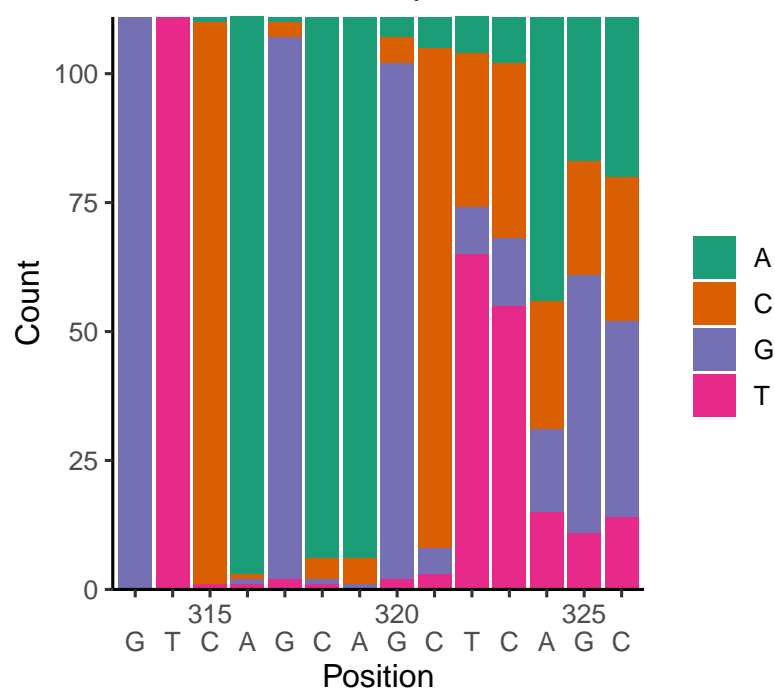
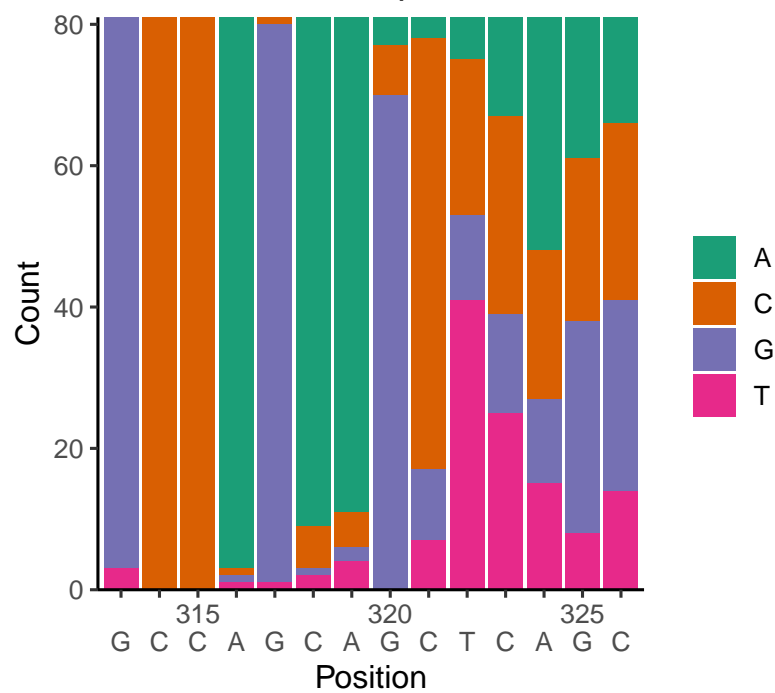


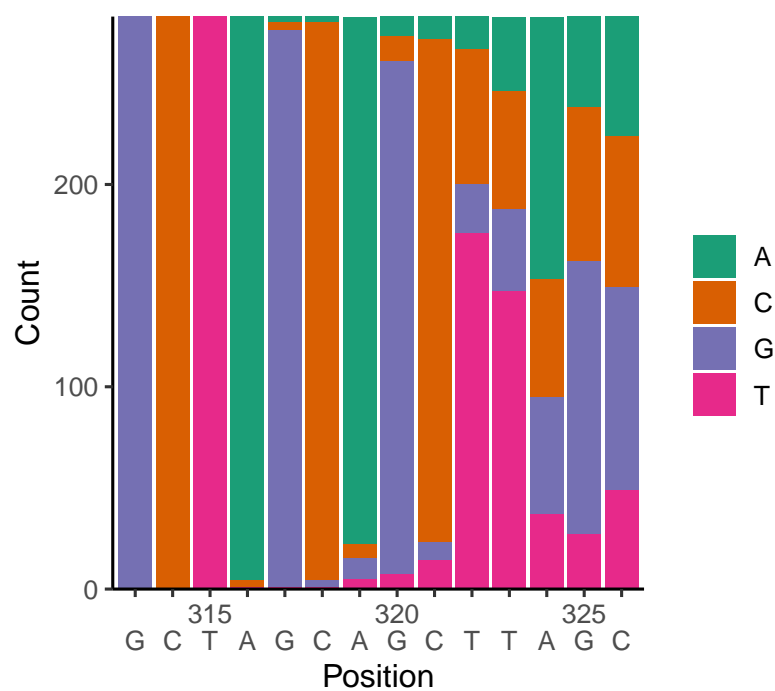
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



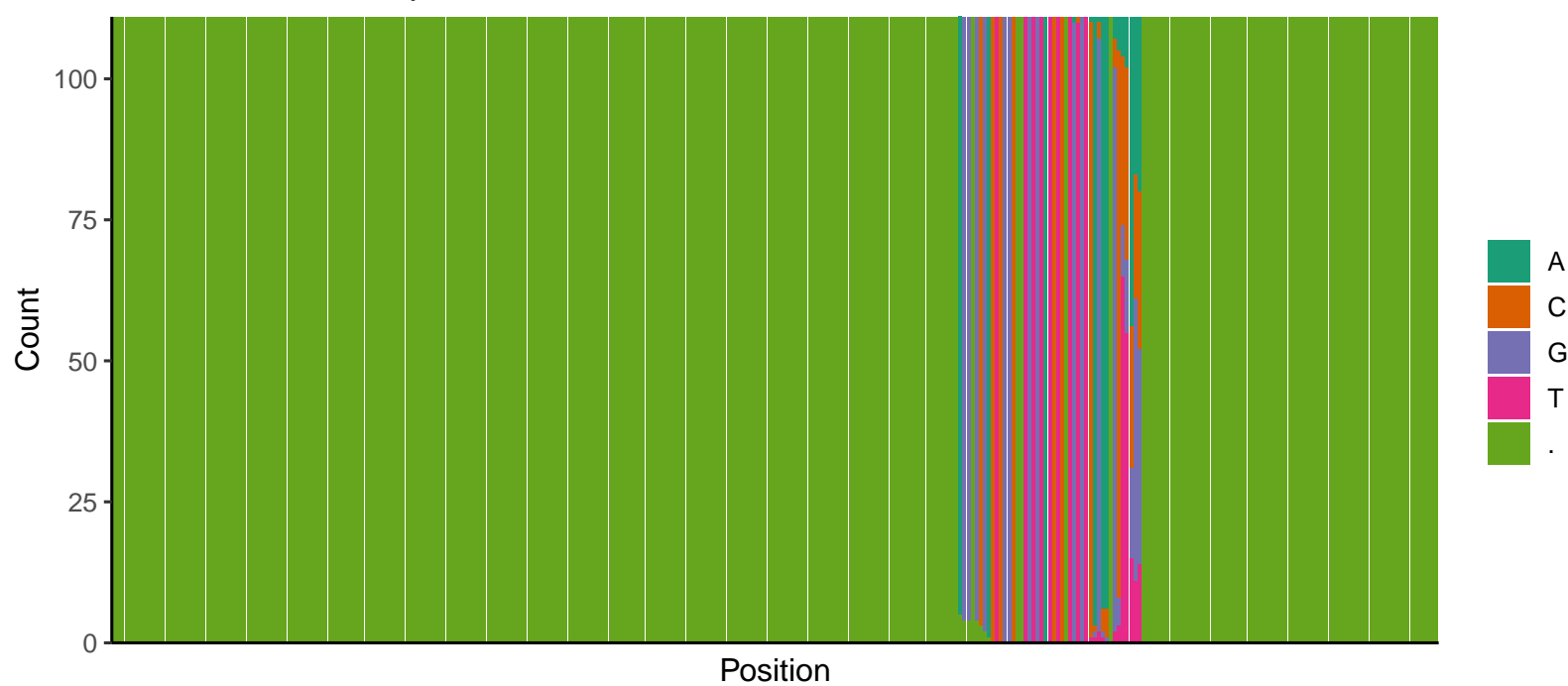
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



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



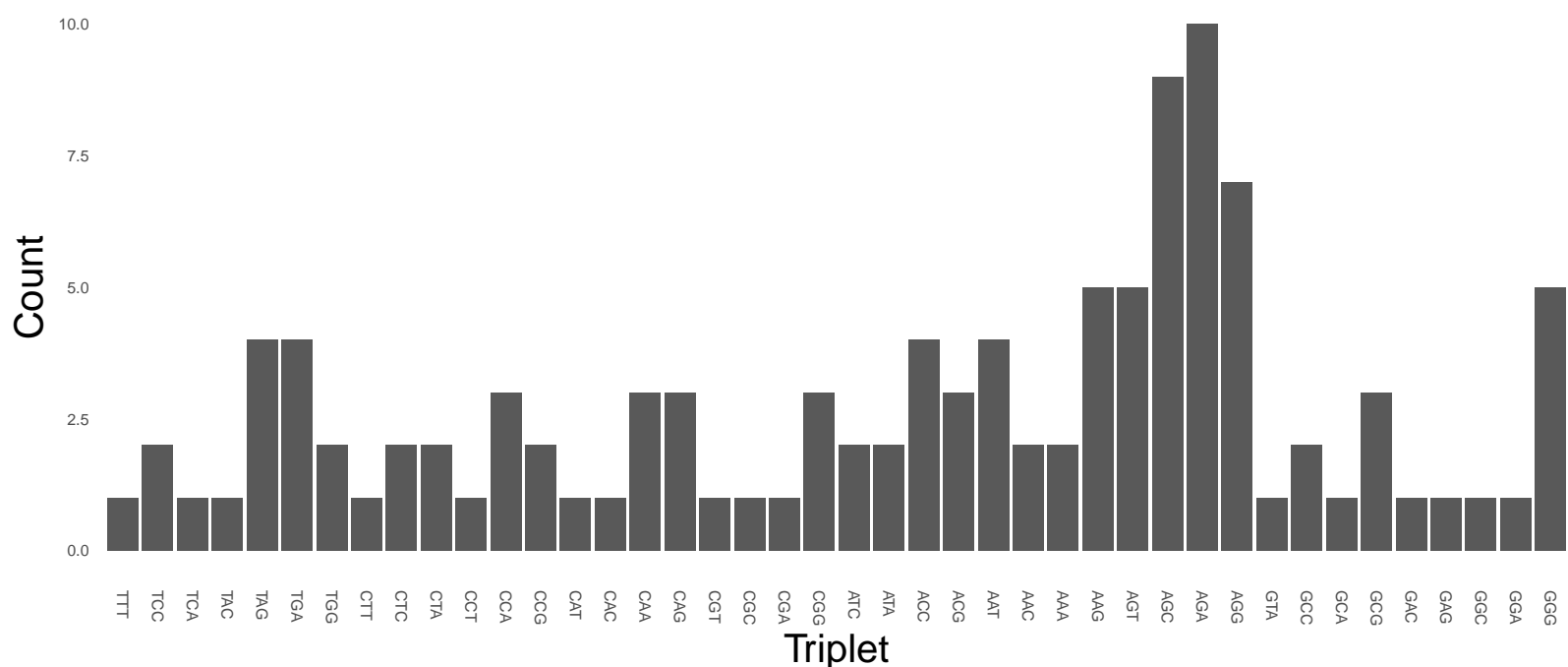
Gene TRBV7-1\*ap01\_G291C\_T296C



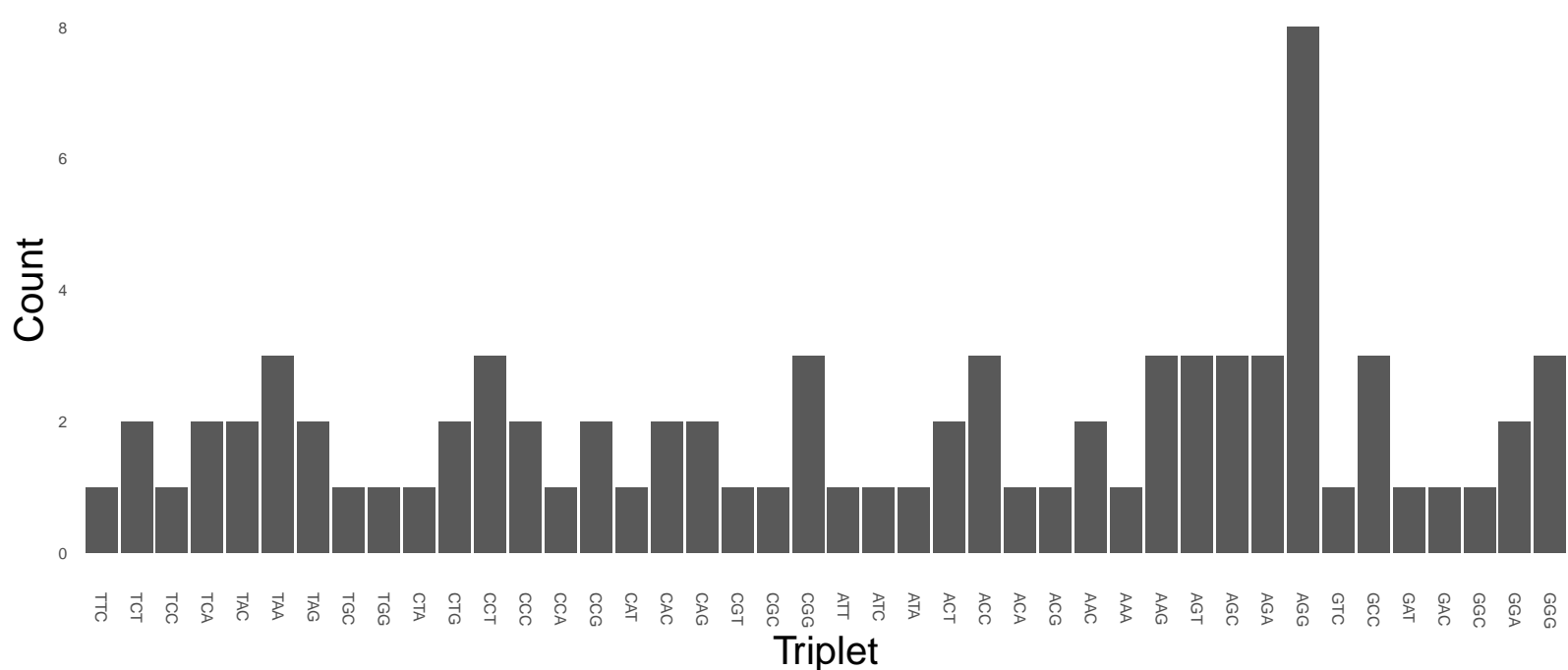
Gene TRBV7-7\*ap01\_C315T



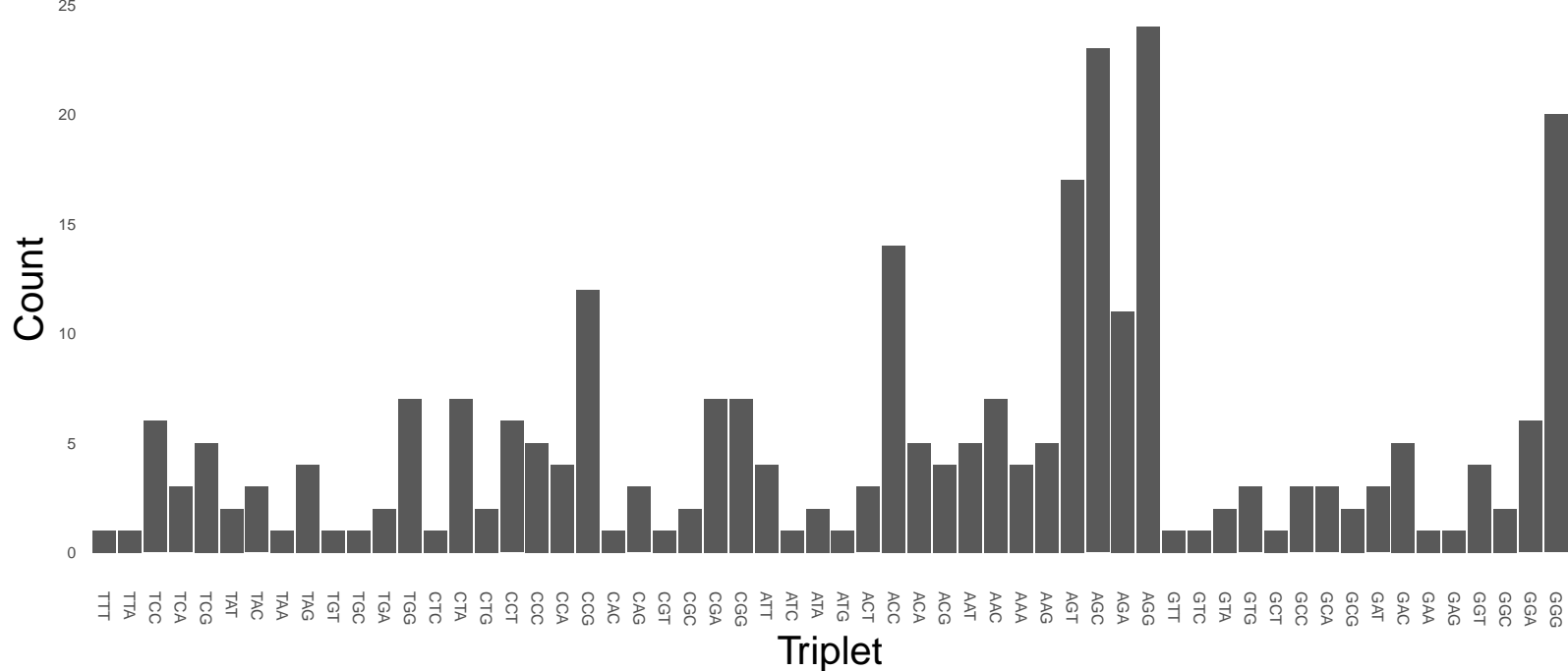
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

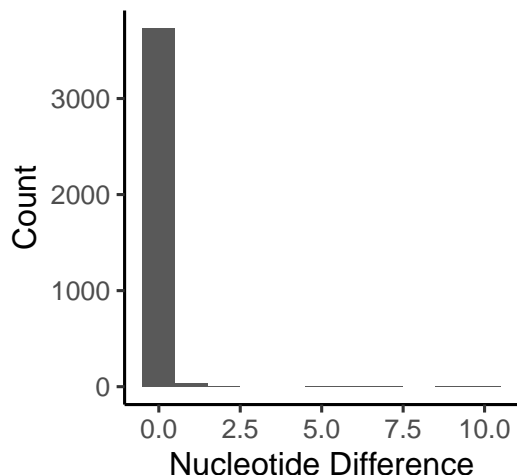


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



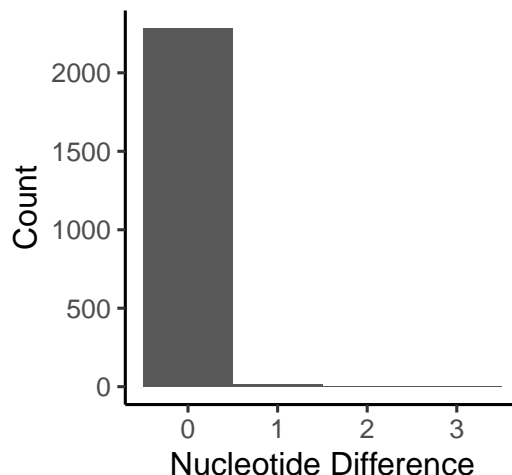
### TRBV10-1\*ap01

3776 sequences assigned  
3730 (98.8%) exact matches, in which:  
3643 unique CDR3  
14 unique J



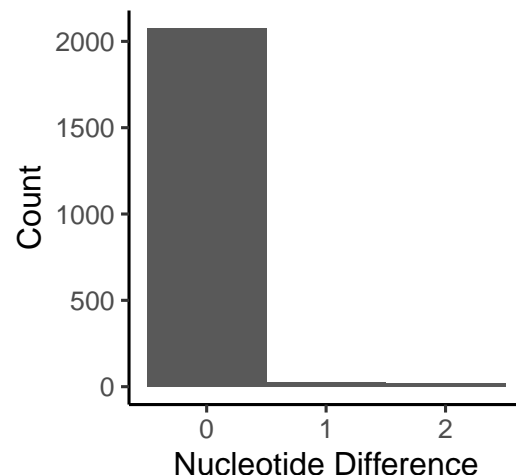
### TRBV10-2\*ap01

2299 sequences assigned  
2283 (99.3%) exact matches, in which:  
2226 unique CDR3  
13 unique J



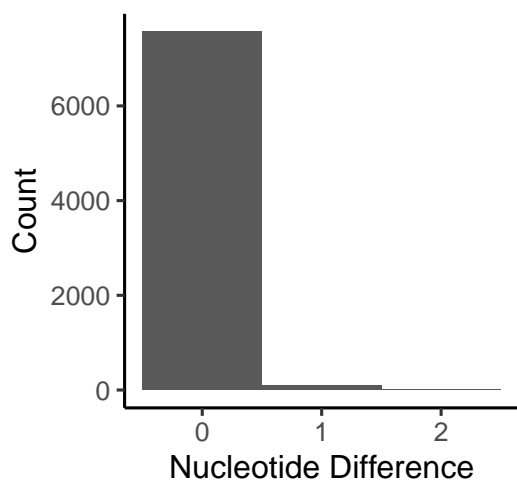
### TRBV13\*ap01

2126 sequences assigned  
2075 (97.6%) exact matches, in which:  
2008 unique CDR3  
13 unique J



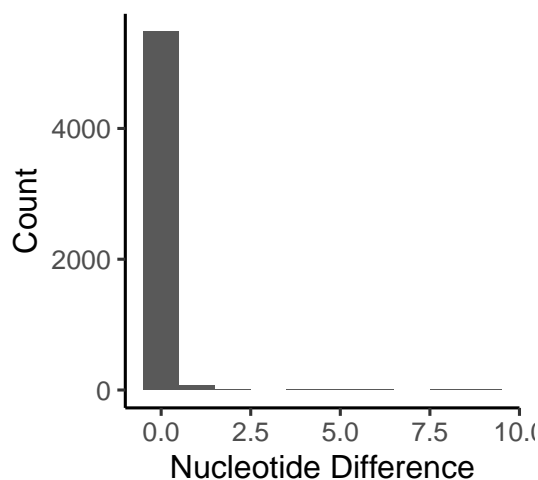
### TRBV20-1\*ap01

7663 sequences assigned  
7567 (98.7%) exact matches, in which:  
7457 unique CDR3  
13 unique J



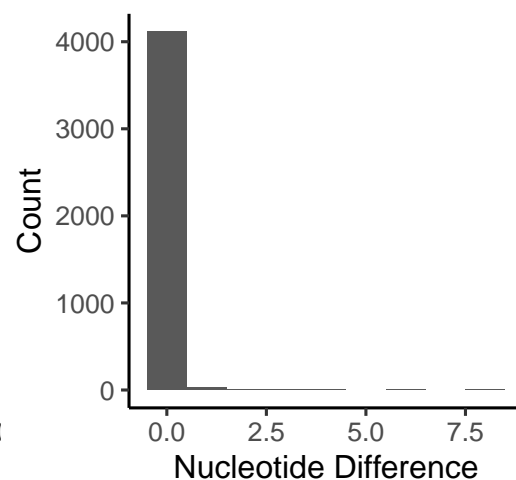
### TRBV10-3\*ap01

5553 sequences assigned  
5479 (98.7%) exact matches, in which:  
5366 unique CDR3  
13 unique J



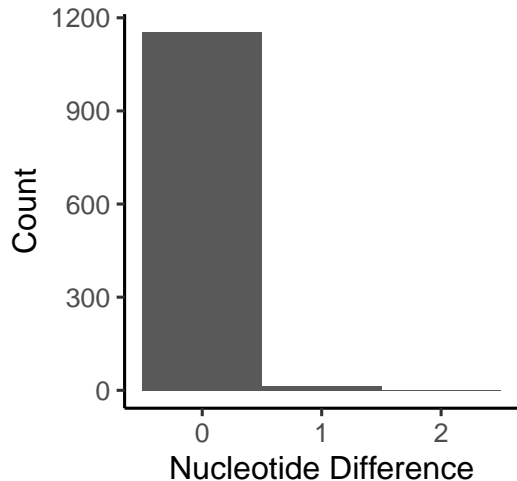
### TRBV14\*ap01

4152 sequences assigned  
4115 (99.1%) exact matches, in which:  
4047 unique CDR3  
13 unique J



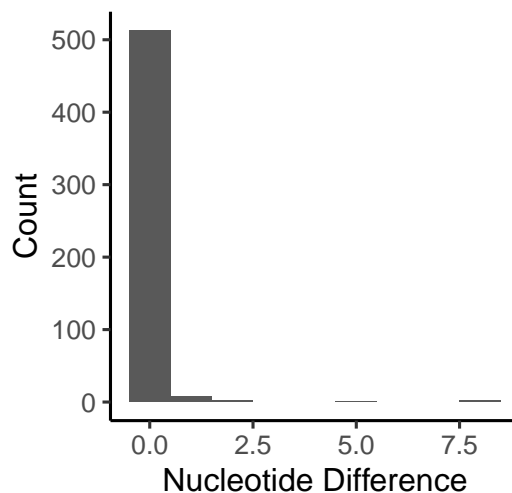
### TRBV20-1\*ap02

1168 sequences assigned  
1154 (98.8%) exact matches, in which:  
1138 unique CDR3  
13 unique J



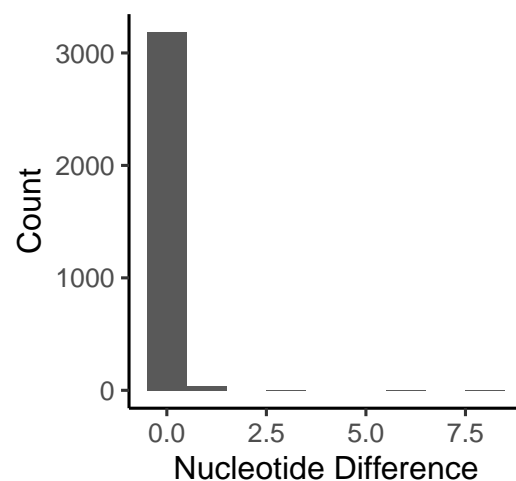
### TRBV1\*ap01

526 sequences assigned  
513 (97.5%) exact matches, in which:  
507 unique CDR3  
13 unique J



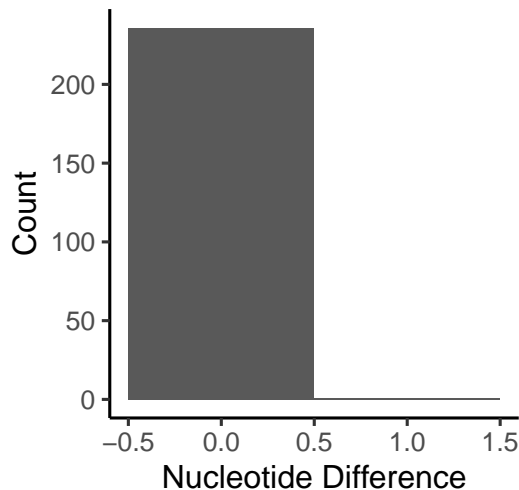
### TRBV15\*ap02

3226 sequences assigned  
3186 (98.8%) exact matches, in which:  
3121 unique CDR3  
13 unique J



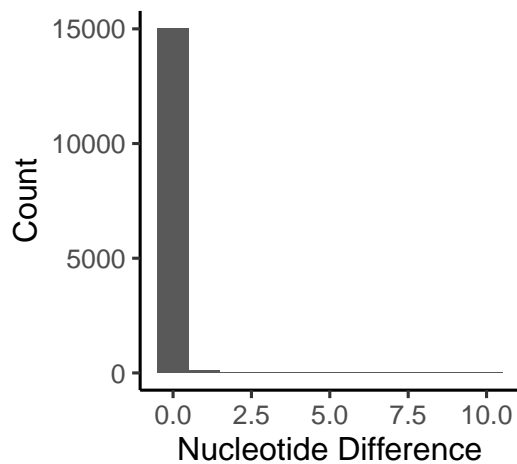
### TRBV16\*ap01

237 sequences assigned  
236 (99.6%) exact matches, in which:  
233 unique CDR3  
12 unique J



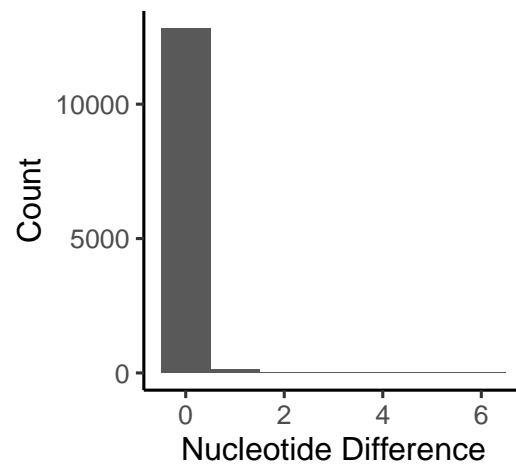
### TRBV19\*ap01

15180 sequences assigned  
15031 (99%) exact matches, in which:  
14862 unique CDR3  
13 unique J



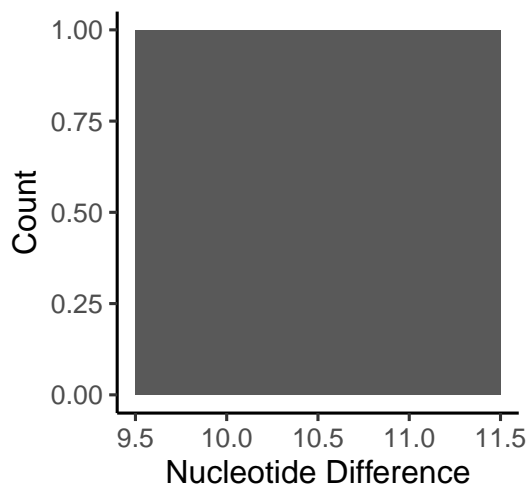
### TRBV28\*ap01

12958 sequences assigned  
12829 (99%) exact matches, in which:  
12585 unique CDR3  
13 unique J



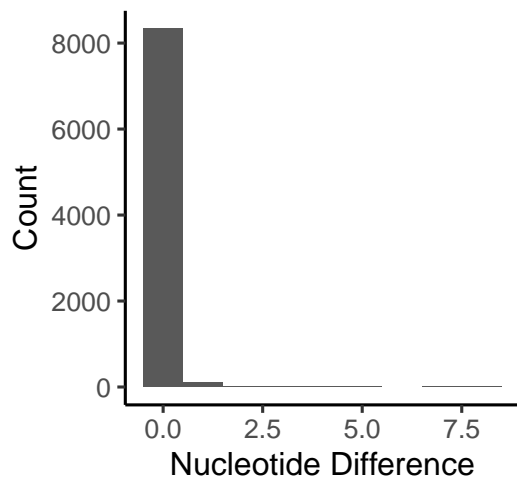
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



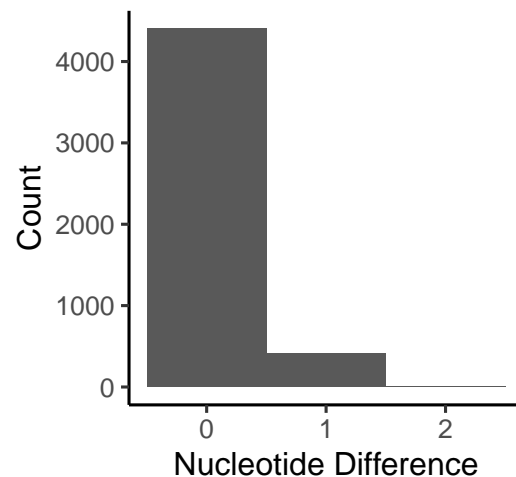
### TRBV2\*ap01

8436 sequences assigned  
8334 (98.8%) exact matches, in which:  
8140 unique CDR3  
13 unique J



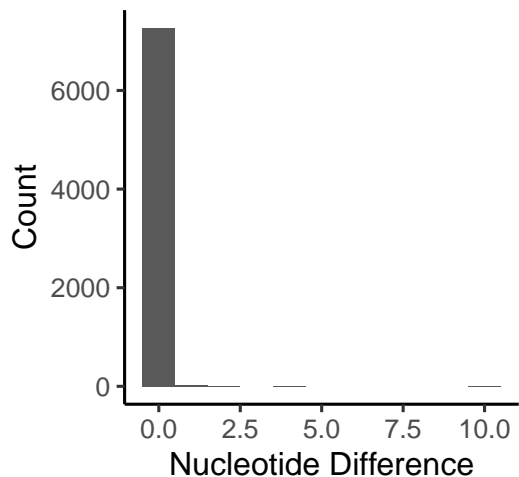
### TRBV30\*ap01

4823 sequences assigned  
4403 (91.3%) exact matches, in which:  
4336 unique CDR3  
13 unique J



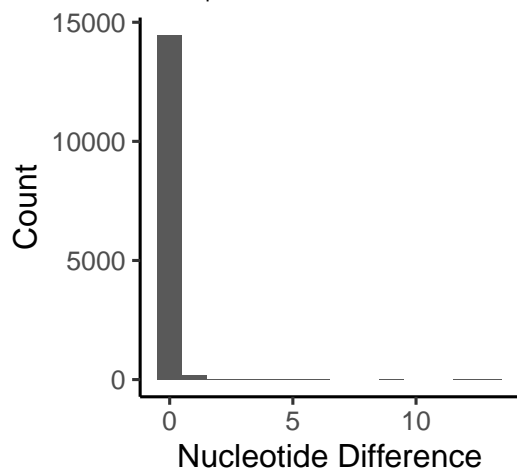
### TRBV18\*ap01

7304 sequences assigned  
7266 (99.5%) exact matches, in which:  
7173 unique CDR3  
13 unique J



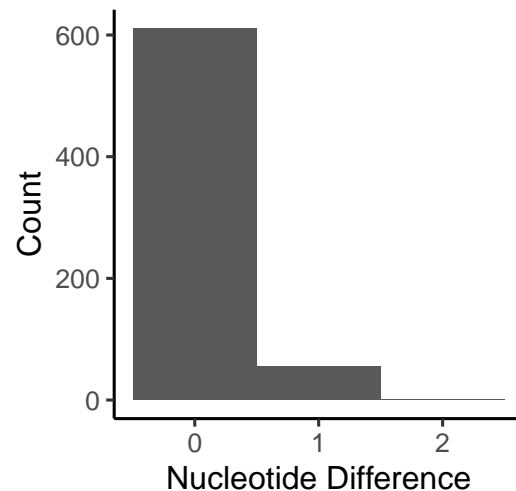
### TRBV27\*ap01

14673 sequences assigned  
14474 (98.6%) exact matches, in which:  
14109 unique CDR3  
13 unique J



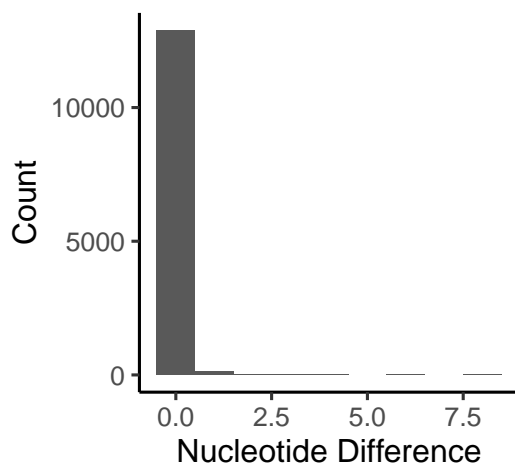
### TRBV30\*ap03

667 sequences assigned  
611 (91.6%) exact matches, in which:  
607 unique CDR3  
13 unique J



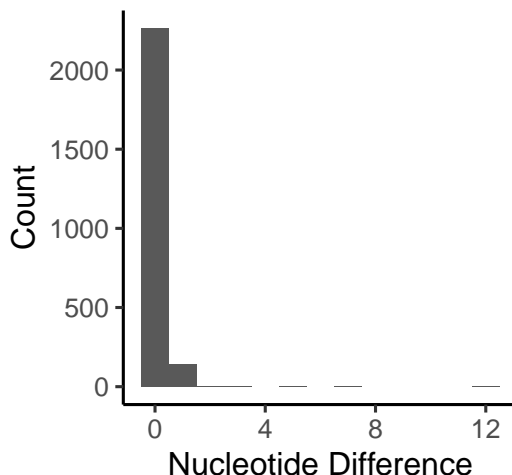
### TRBV9\*ap01

13046 sequences assigned  
12894 (98.8%) exact matches, in which:  
12634 unique CDR3  
13 unique J



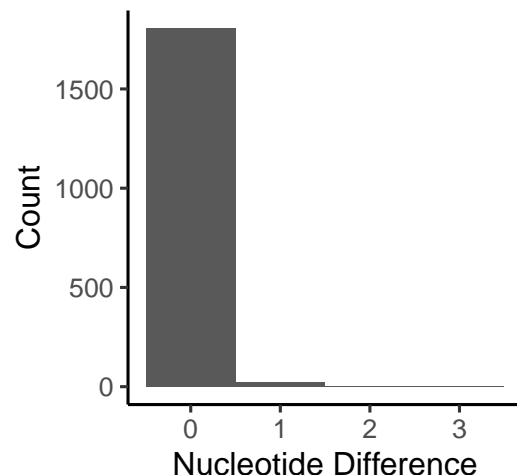
### TRBV11-3\*ap01

2415 sequences assigned  
2263 (93.7%) exact matches, in which:  
2241 unique CDR3  
13 unique J



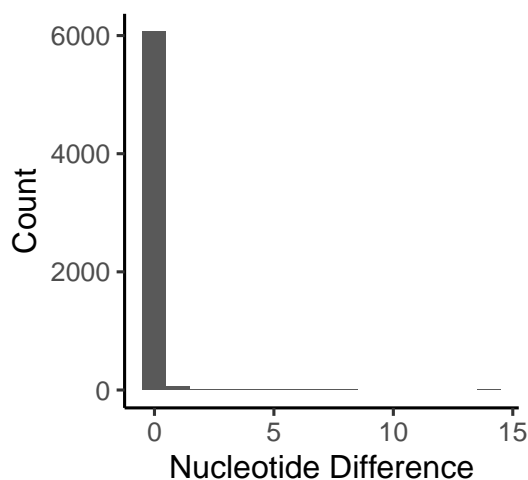
### TRBV12-5\*ap01

1830 sequences assigned  
1805 (98.6%) exact matches, in which:  
1770 unique CDR3  
13 unique J



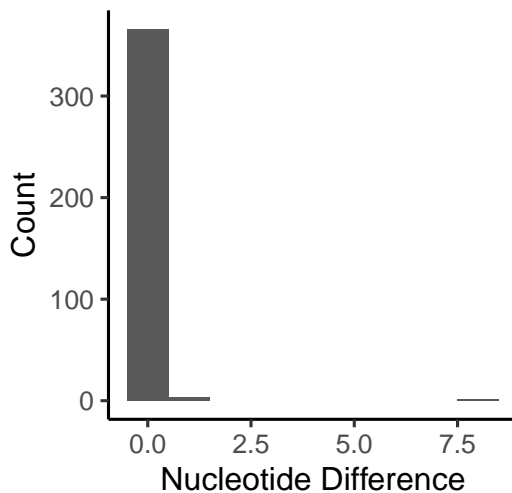
### TRBV21-1\*ap01

6174 sequences assigned  
6065 (98.2%) exact matches, in which:  
5980 unique CDR3  
13 unique J



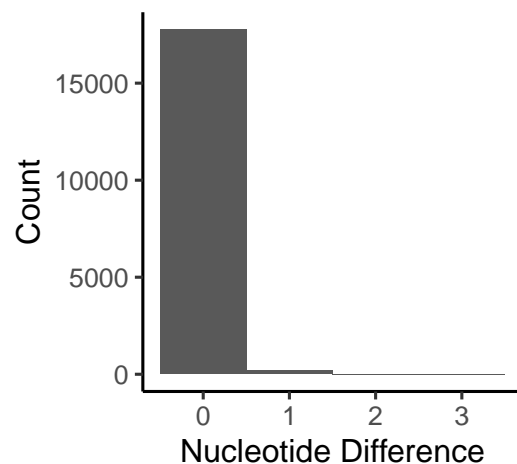
### TRBV12-1\*ap01

370 sequences assigned  
366 (98.9%) exact matches, in which:  
356 unique CDR3  
13 unique J



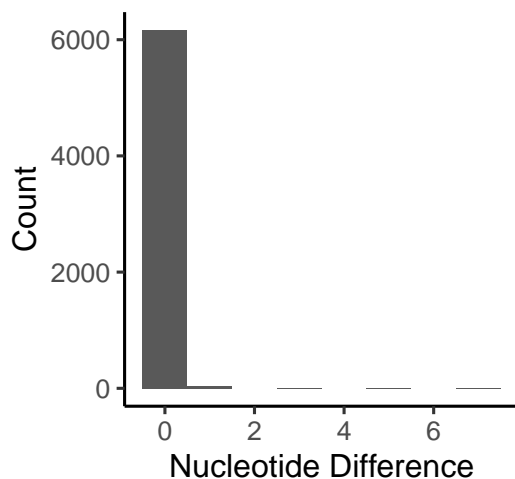
### TRBV12-34\*ap01

17971 sequences assigned  
17767 (98.9%) exact matches, in which:  
17390 unique CDR3  
13 unique J



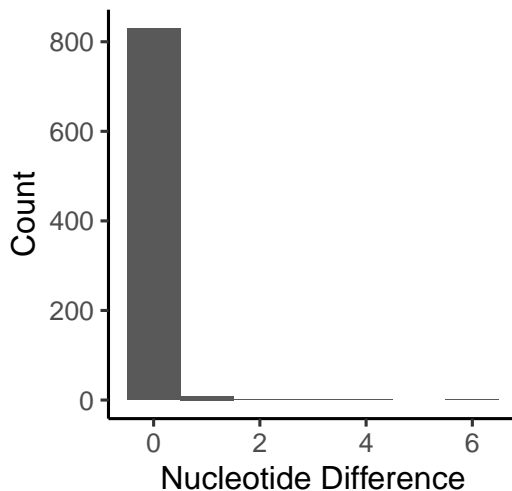
### TRBV11-2\*ap01

6209 sequences assigned  
6166 (99.3%) exact matches, in which:  
6065 unique CDR3  
13 unique J



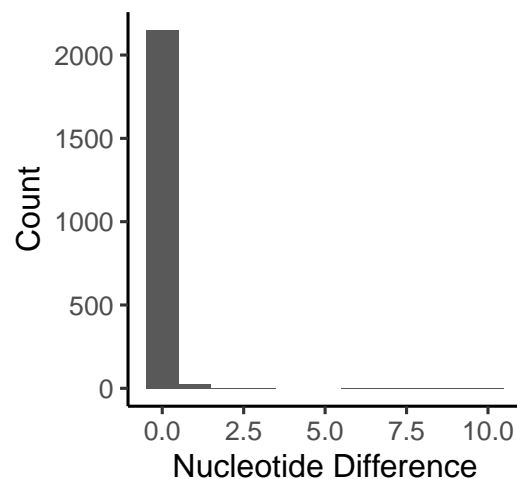
### TRBV12-2\*ap01

844 sequences assigned  
830 (98.3%) exact matches, in which:  
816 unique CDR3  
13 unique J



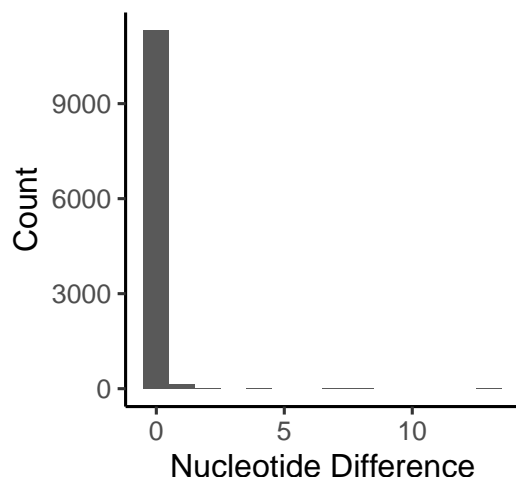
### TRBV23-1\*ap01

2189 sequences assigned  
2150 (98.2%) exact matches, in which:  
2109 unique CDR3  
13 unique J



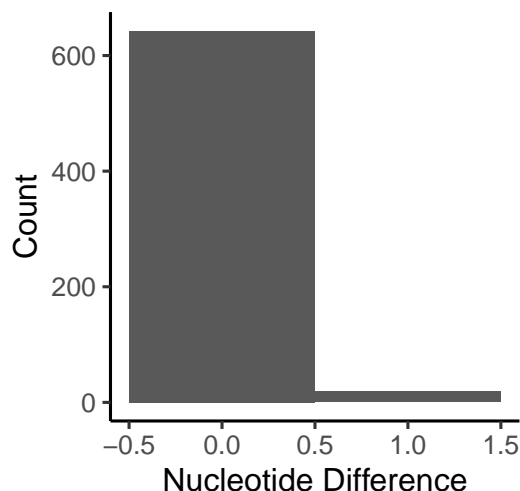
### TRBV3-12\*ap01

11462 sequences assigned  
11312 (98.7%) exact matches, in which:  
11096 unique CDR3  
13 unique J



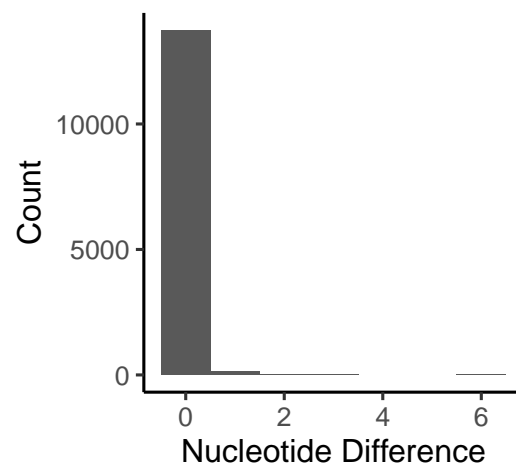
### TRBV4-2\*ap01

662 sequences assigned  
643 (97.1%) exact matches, in which:  
623 unique CDR3  
13 unique J



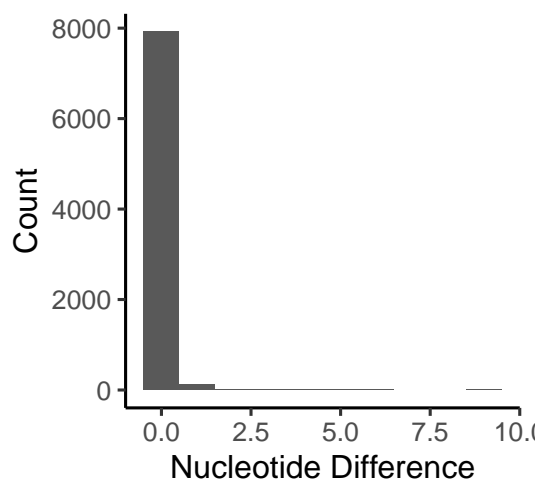
### TRBV5-1\*ap01

13905 sequences assigned  
13739 (98.8%) exact matches, in which:  
13383 unique CDR3  
13 unique J



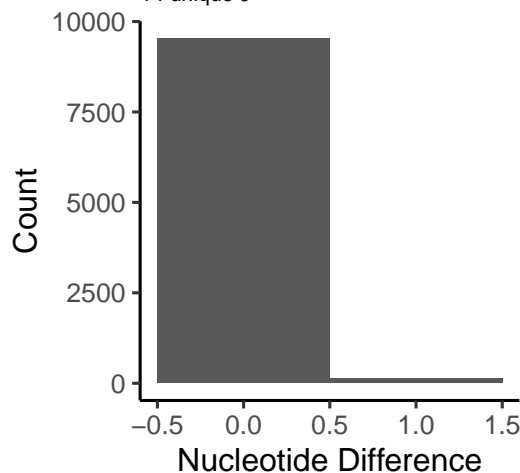
### TRBV24-1\*ap01

8049 sequences assigned  
7921 (98.4%) exact matches, in which:  
7764 unique CDR3  
13 unique J



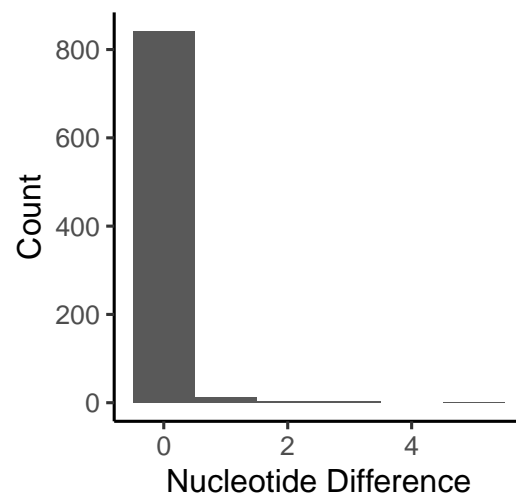
### TRBV4-3\*ap01

9670 sequences assigned  
9532 (98.6%) exact matches, in which:  
9315 unique CDR3  
14 unique J



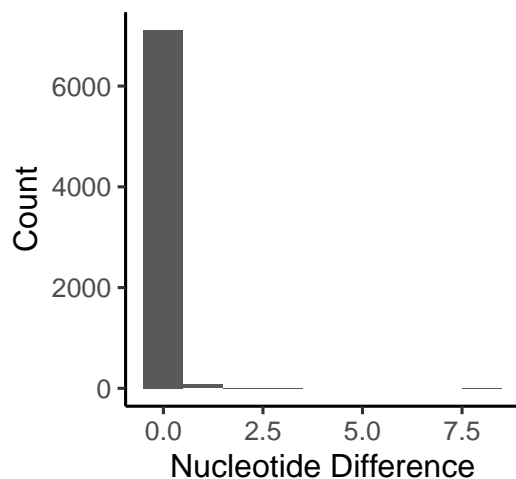
### TRBV5-3\*ap01

862 sequences assigned  
842 (97.7%) exact matches, in which:  
821 unique CDR3  
13 unique J



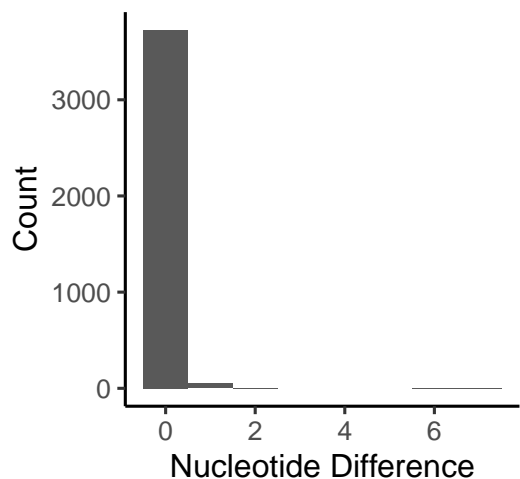
### TRBV4-1\*ap01

7189 sequences assigned  
7112 (98.9%) exact matches, in which:  
6944 unique CDR3  
13 unique J



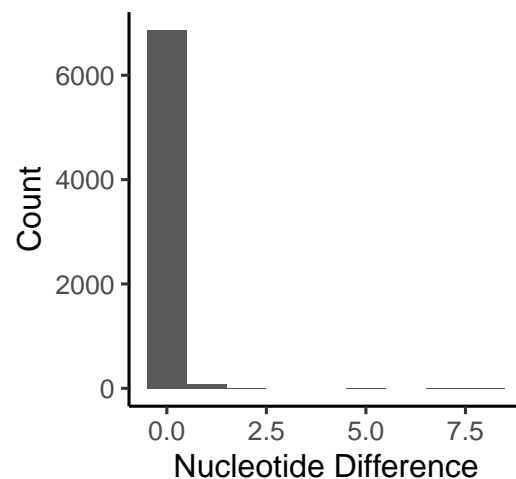
### TRBV25-1\*ap01

3778 sequences assigned  
3725 (98.6%) exact matches, in which:  
3645 unique CDR3  
13 unique J



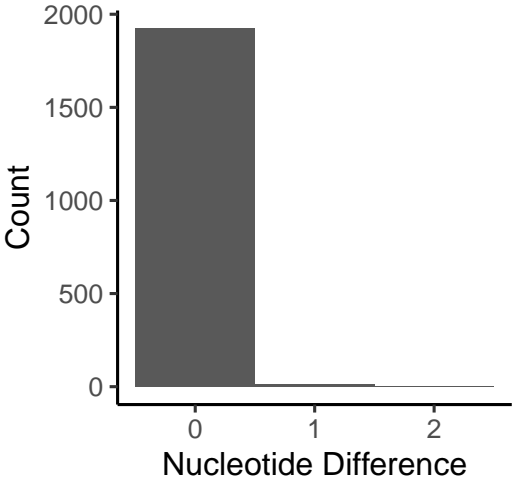
### TRBV5-4\*ap01

6958 sequences assigned  
6866 (98.7%) exact matches, in which:  
6690 unique CDR3  
13 unique J



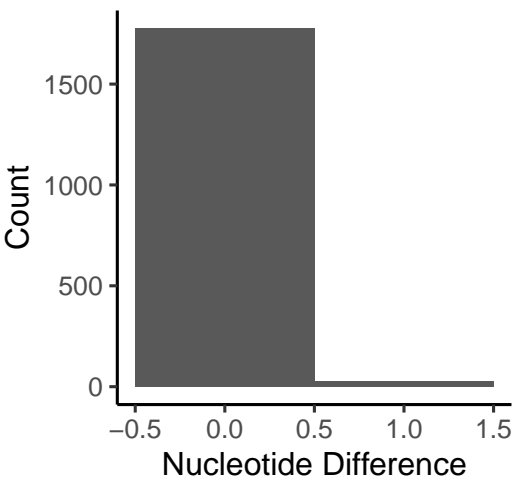
TRBV5-5\*ap01

1941 sequences assigned  
1924 (99.1%) exact matches, in which:  
1906 unique CDR3  
13 unique J



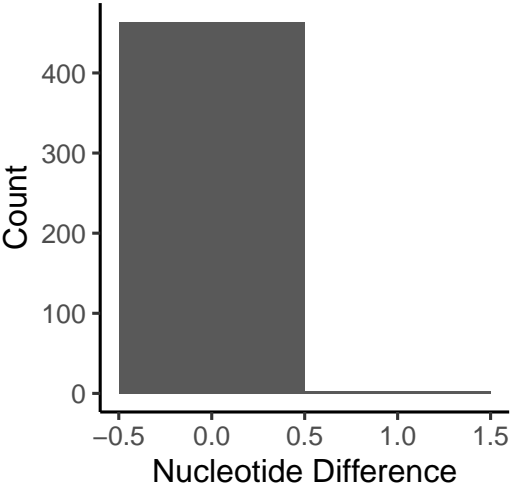
TRBV5-8\*ap01

1804 sequences assigned  
1776 (98.4%) exact matches, in which:  
1748 unique CDR3  
13 unique J



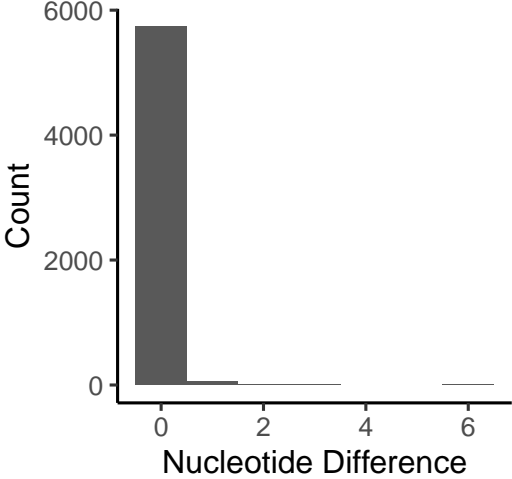
TRBV6-7\*ap01

467 sequences assigned  
464 (99.4%) exact matches, in which:  
450 unique CDR3  
13 unique J



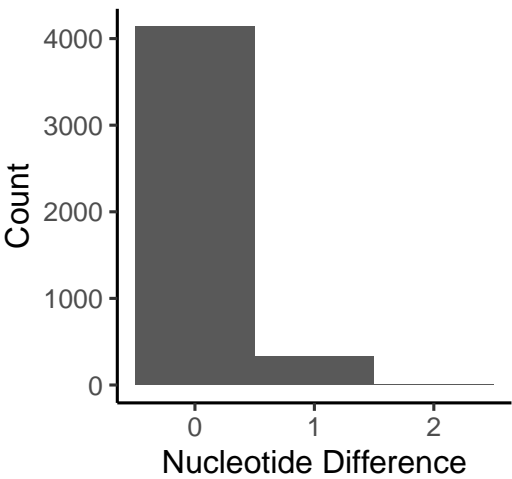
TRBV5-6\*ap01

5795 sequences assigned  
5735 (99%) exact matches, in which:  
5567 unique CDR3  
13 unique J



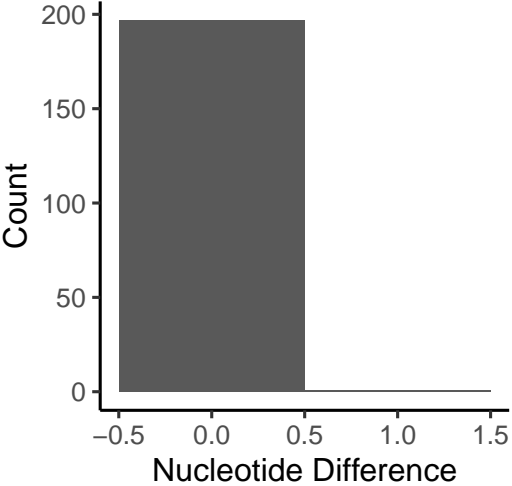
TRBV6-1\*ap01

4473 sequences assigned  
4137 (92.5%) exact matches, in which:  
4030 unique CDR3  
13 unique J



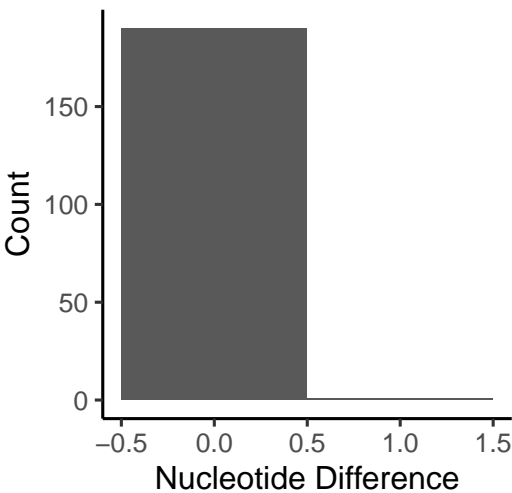
TRBV6-8\*ap01

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



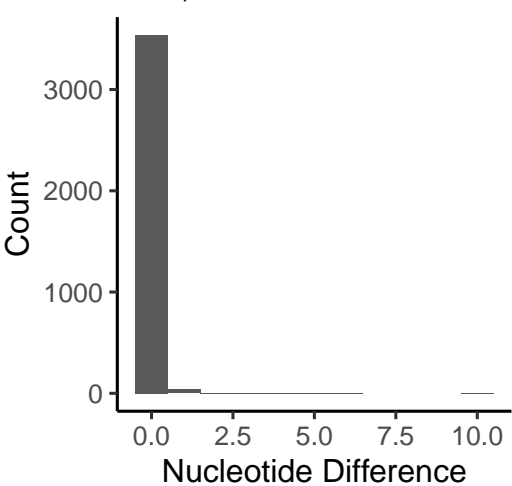
TRBV5-7\*ap01

191 sequences assigned  
190 (99.5%) exact matches, in which:  
185 unique CDR3  
13 unique J



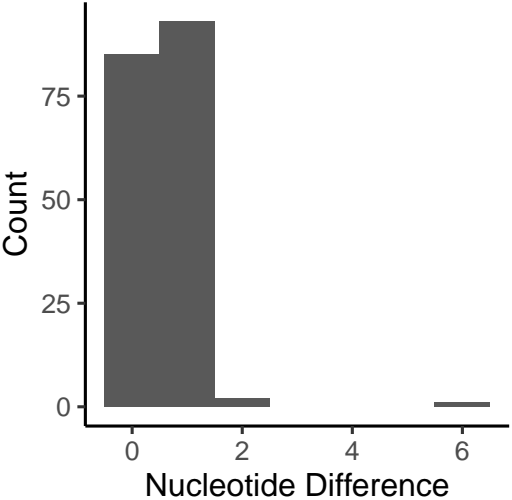
TRBV6-4\*ap01

3587 sequences assigned  
3538 (98.6%) exact matches, in which:  
3482 unique CDR3  
13 unique J



TRBV6-9\*ap01

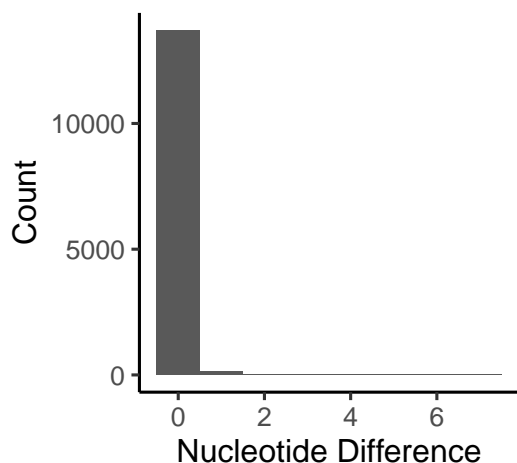
181 sequences assigned  
85 (47%) exact matches, in which:  
83 unique CDR3  
12 unique J





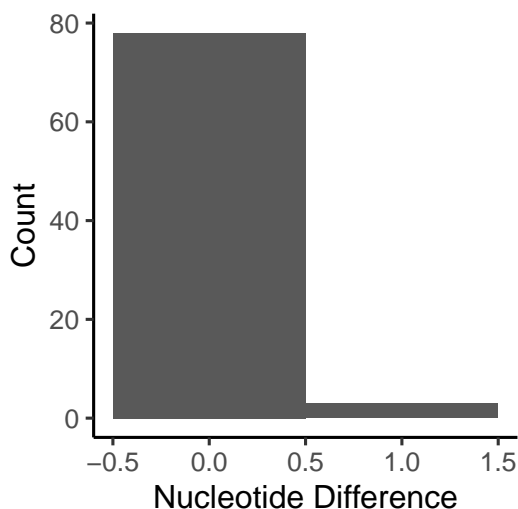
### TRBV6-23\*ap01

13867 sequences assigned  
13711 (98.9%) exact matches, in which:  
13344 unique CDR3  
13 unique J



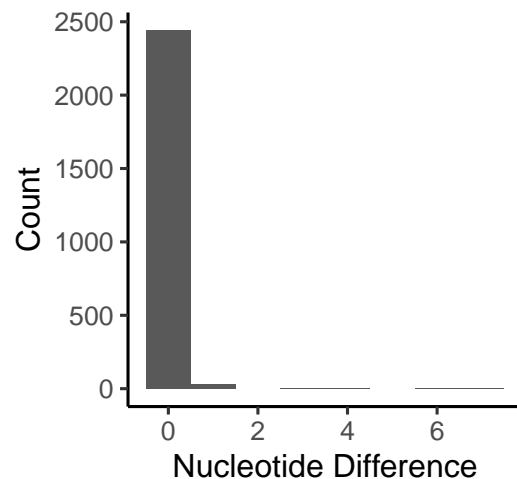
### TRBV7-1\*ap01\_G291C\_T

81 sequences assigned  
78 (96.3%) exact matches, in which:  
77 unique CDR3  
11 unique J



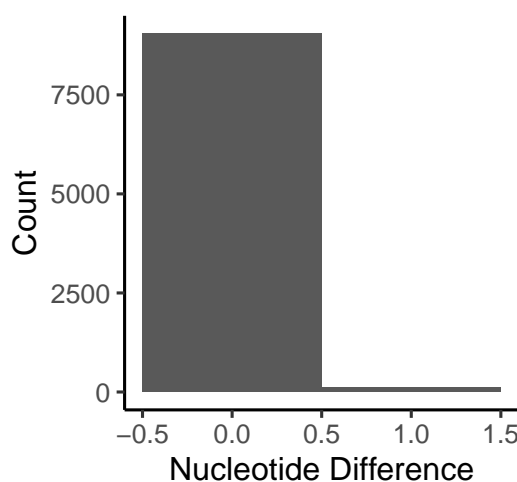
### TRBV7-3\*ap02

2475 sequences assigned  
2441 (98.6%) exact matches, in which:  
2404 unique CDR3  
14 unique J



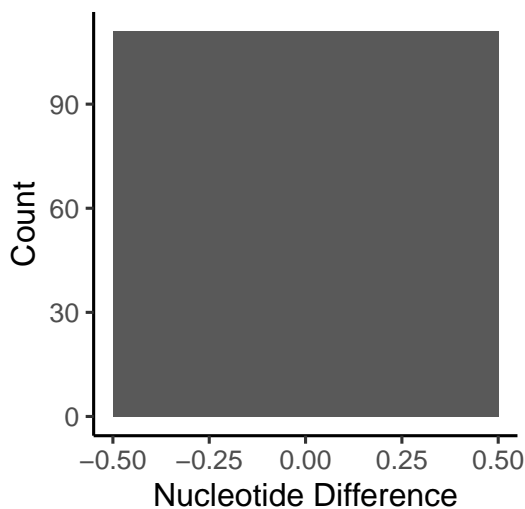
### TRBV6-56\*ap01

9148 sequences assigned  
9043 (98.9%) exact matches, in which:  
8816 unique CDR3  
13 unique J



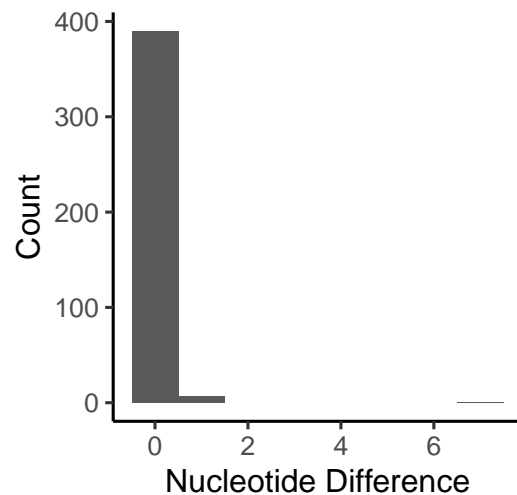
### TRBV7-1\*ap01\_G291C\_T

111 sequences assigned  
111 (100%) exact matches, in which:  
111 unique CDR3  
12 unique J



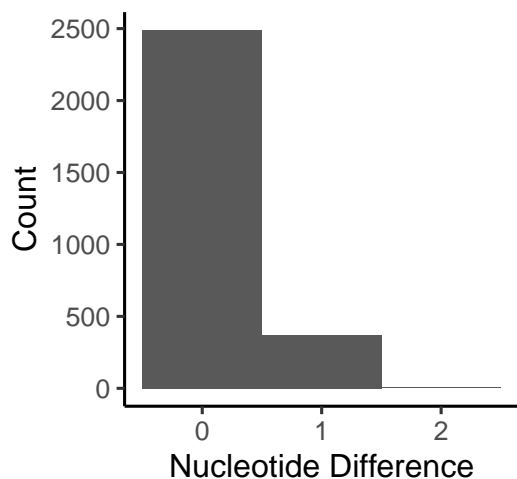
### TRBV7-4\*ap01

398 sequences assigned  
390 (98%) exact matches, in which:  
380 unique CDR3  
13 unique J



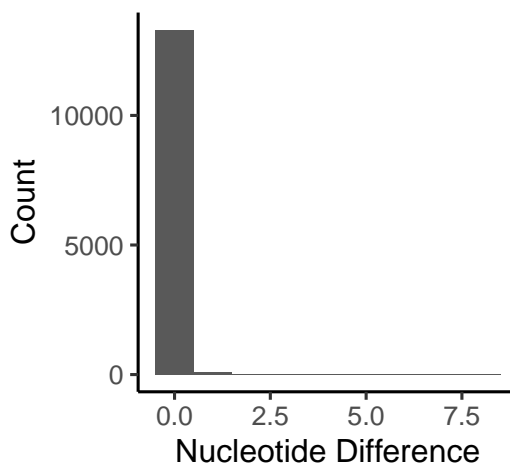
### TRBV6-56\*ap02

2866 sequences assigned  
2490 (86.9%) exact matches, in which:  
2437 unique CDR3  
13 unique J



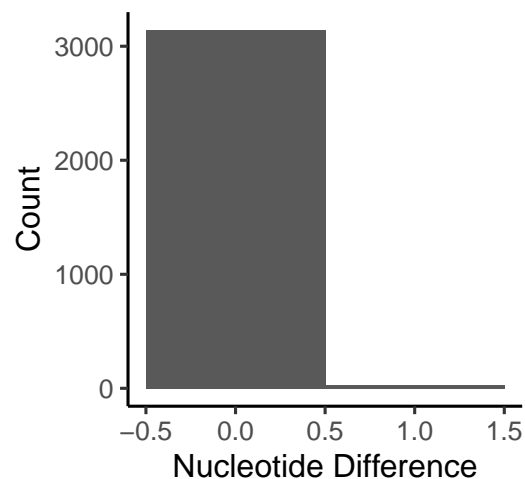
### TRBV7-2\*ap01

13401 sequences assigned  
13305 (99.3%) exact matches, in which:  
13058 unique CDR3  
13 unique J



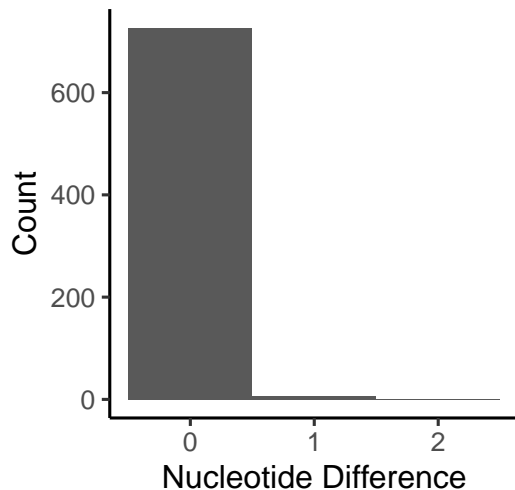
### TRBV7-6\*ap01

3170 sequences assigned  
3142 (99.1%) exact matches, in which:  
3075 unique CDR3  
13 unique J



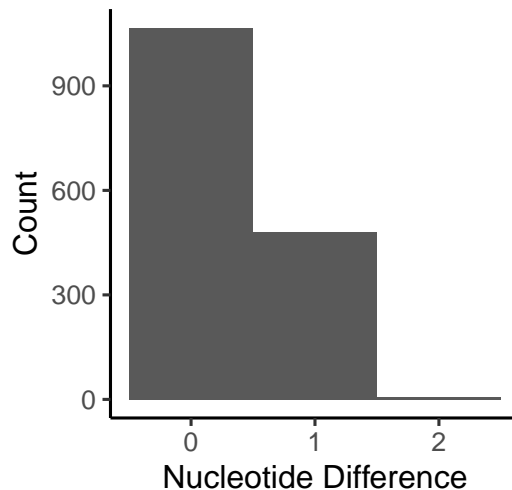
### TRBV7-7\*ap01

734 sequences assigned  
727 (99%) exact matches, in which:  
714 unique CDR3  
13 unique J



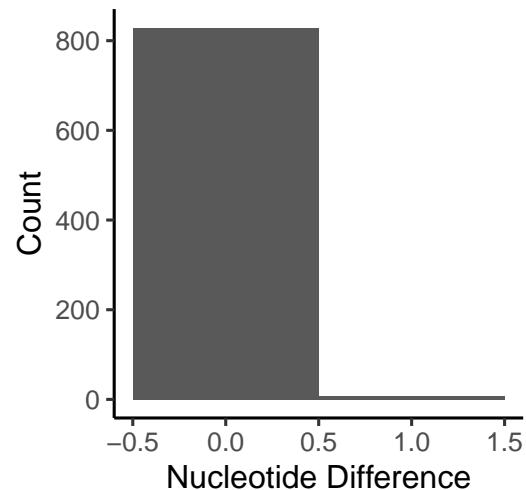
### TRBV7-8\*ap03

1555 sequences assigned  
1067 (68.6%) exact matches, in which:  
1041 unique CDR3  
13 unique J



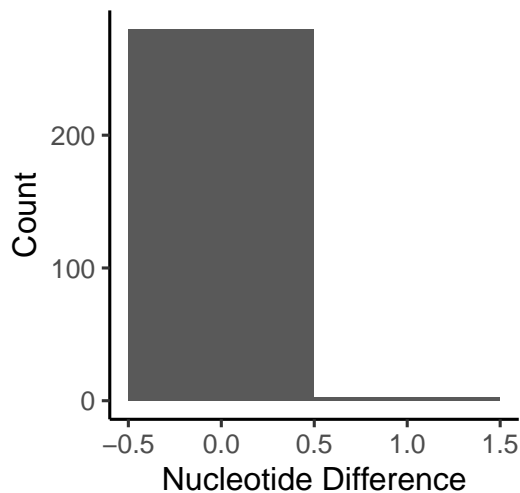
### TRBV29-1\*ap02

836 sequences assigned  
829 (99.2%) exact matches, in which:  
814 unique CDR3  
13 unique J



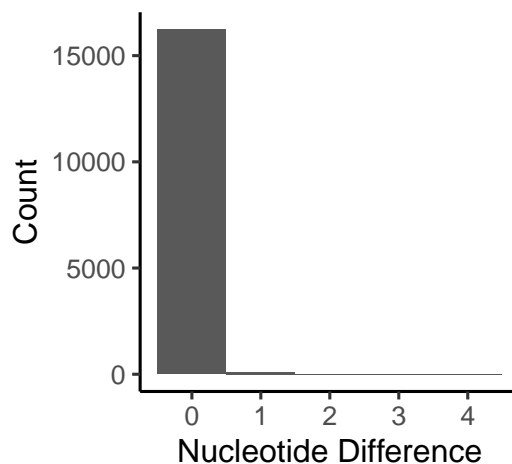
### TRBV7-7\*ap01\_C315T

283 sequences assigned  
280 (98.9%) exact matches, in which:  
270 unique CDR3  
12 unique J



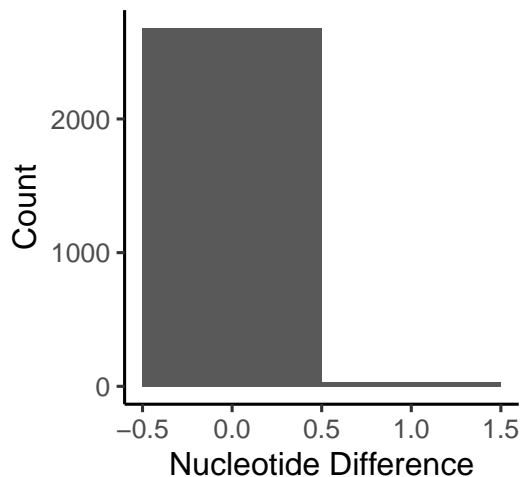
### TRBV7-9\*ap01

16353 sequences assigned  
16232 (99.3%) exact matches, in which:  
16022 unique CDR3  
13 unique J



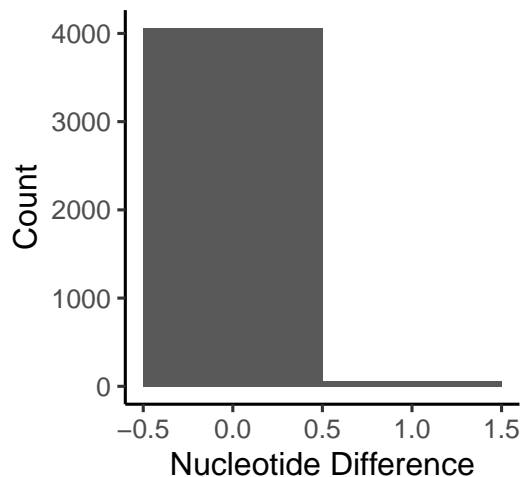
### TRBV7-8\*ap01

2712 sequences assigned  
2680 (98.8%) exact matches, in which:  
2613 unique CDR3  
13 unique J

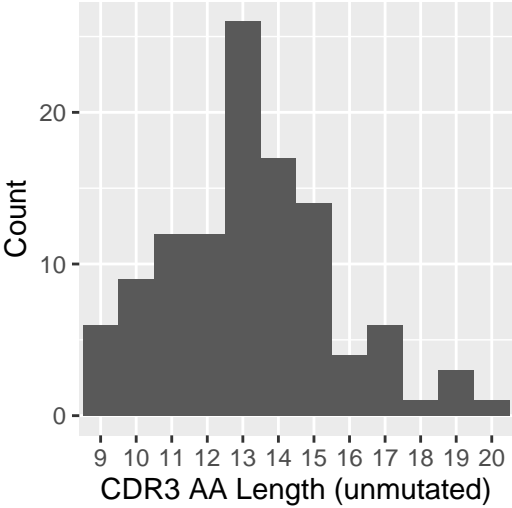


### TRBV29-1\*ap01

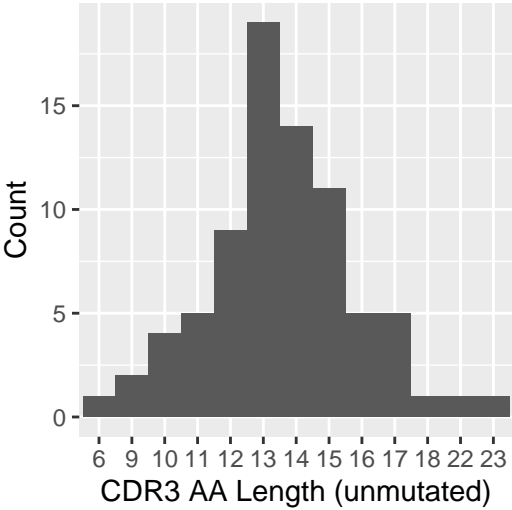
4120 sequences assigned  
4061 (98.6%) exact matches, in which:  
3970 unique CDR3  
13 unique J



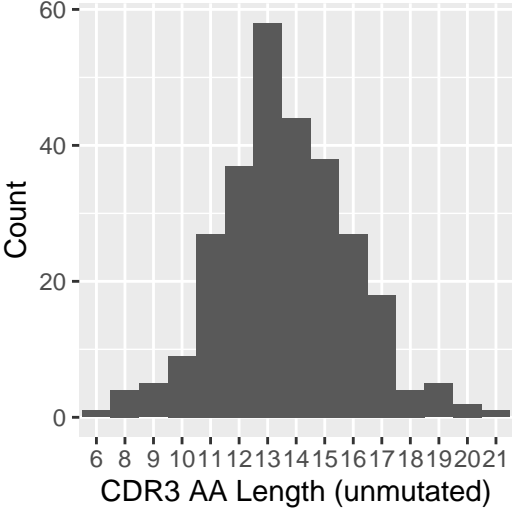
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]