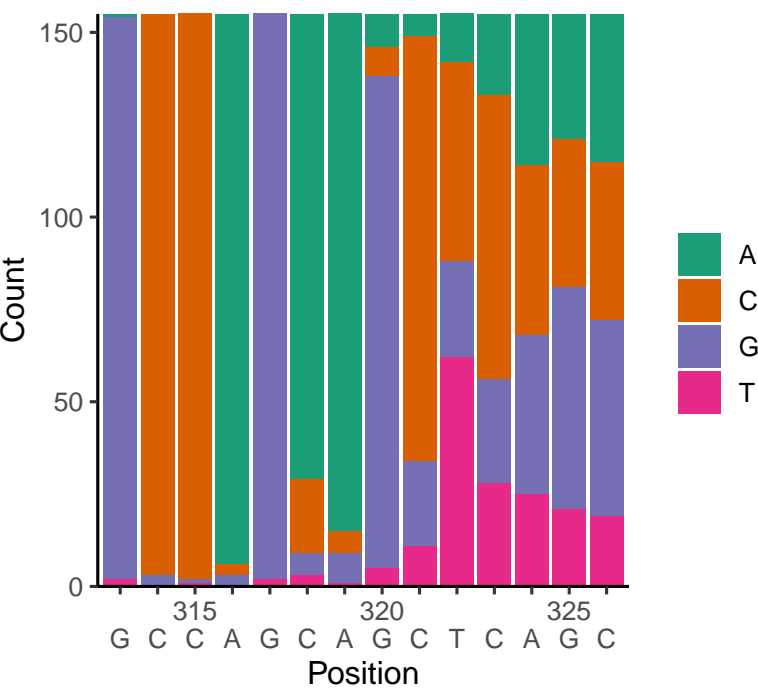
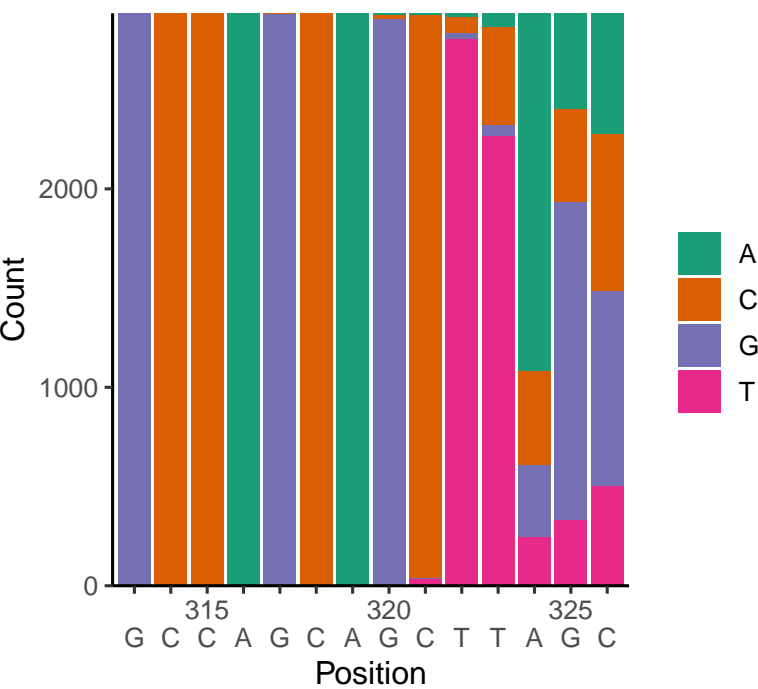


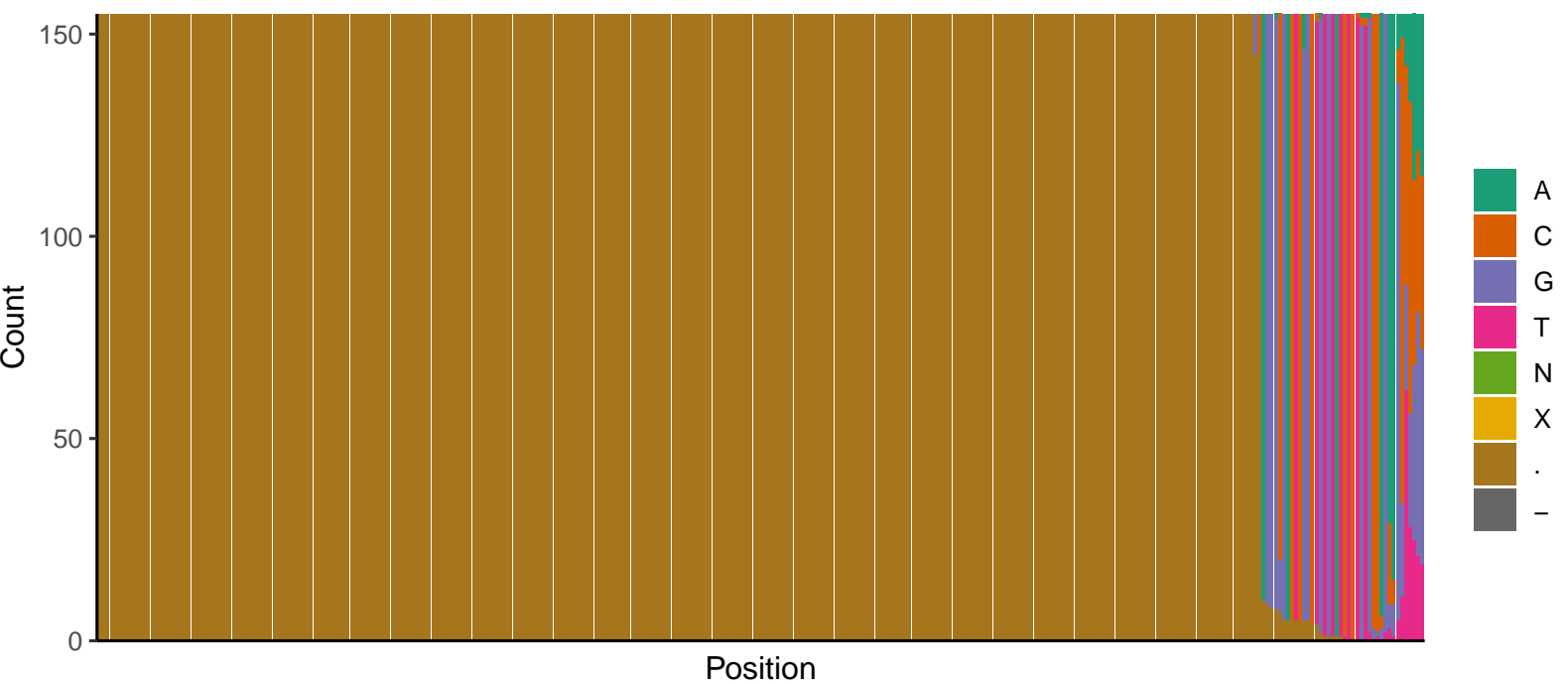
Gene TRBV7-1\*ap01\_T296C



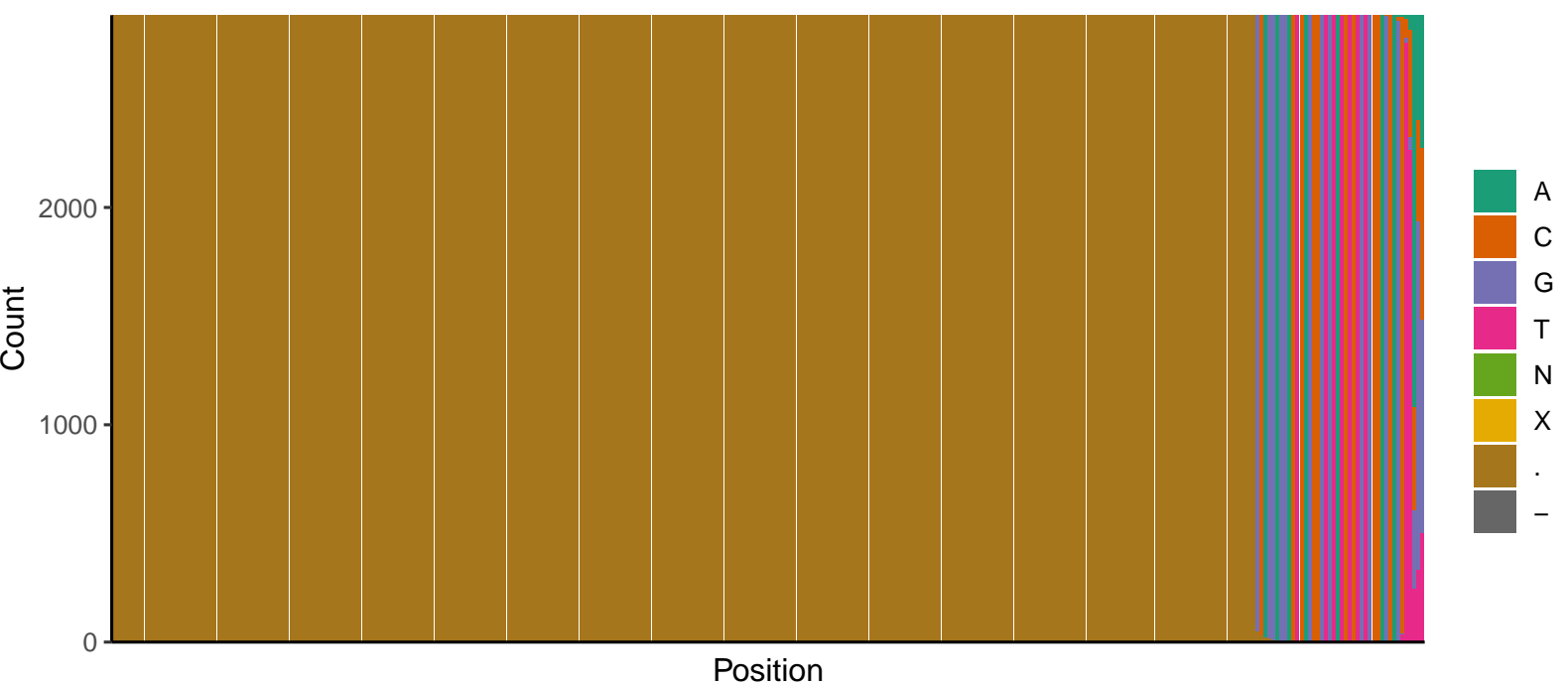
Gene TRBV7-2\*ap01\_G297A



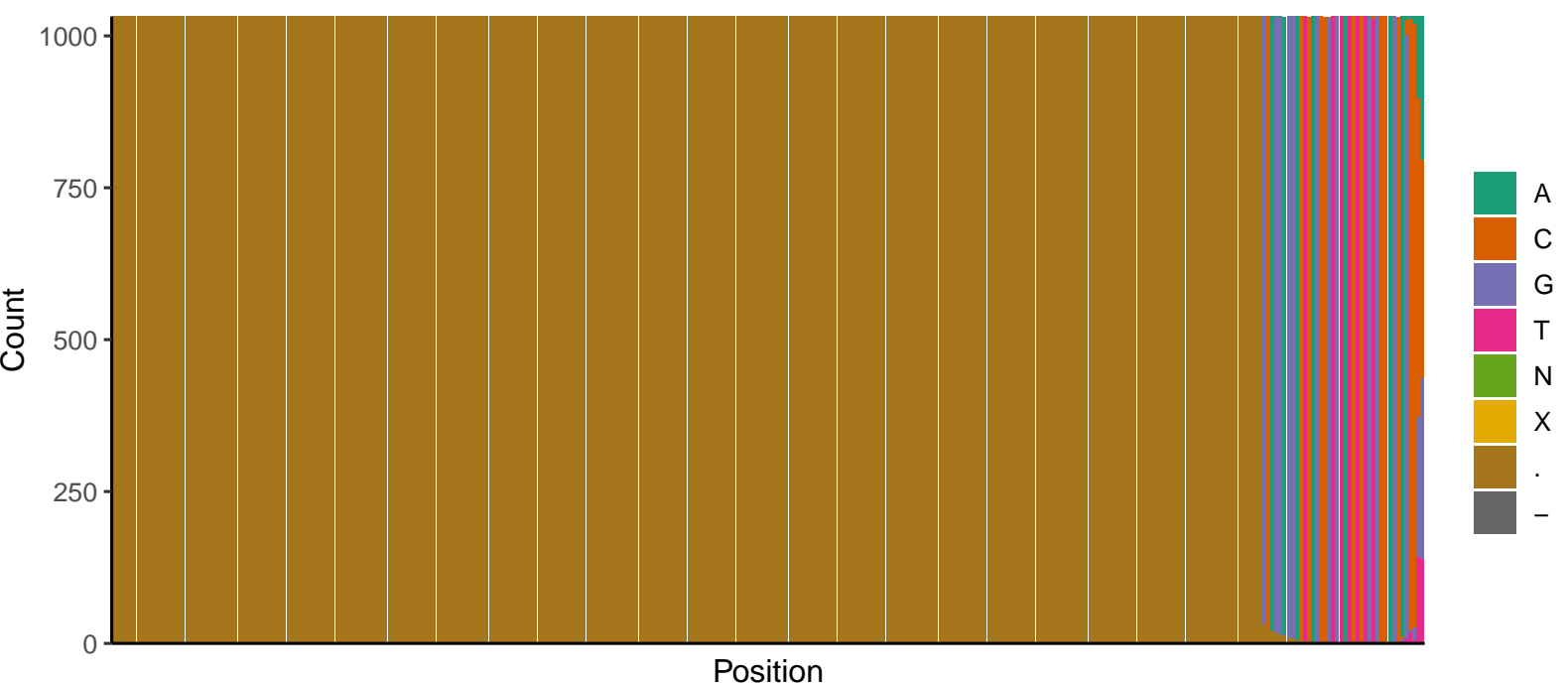
Gene TRBV7-1\*ap01\_T296C



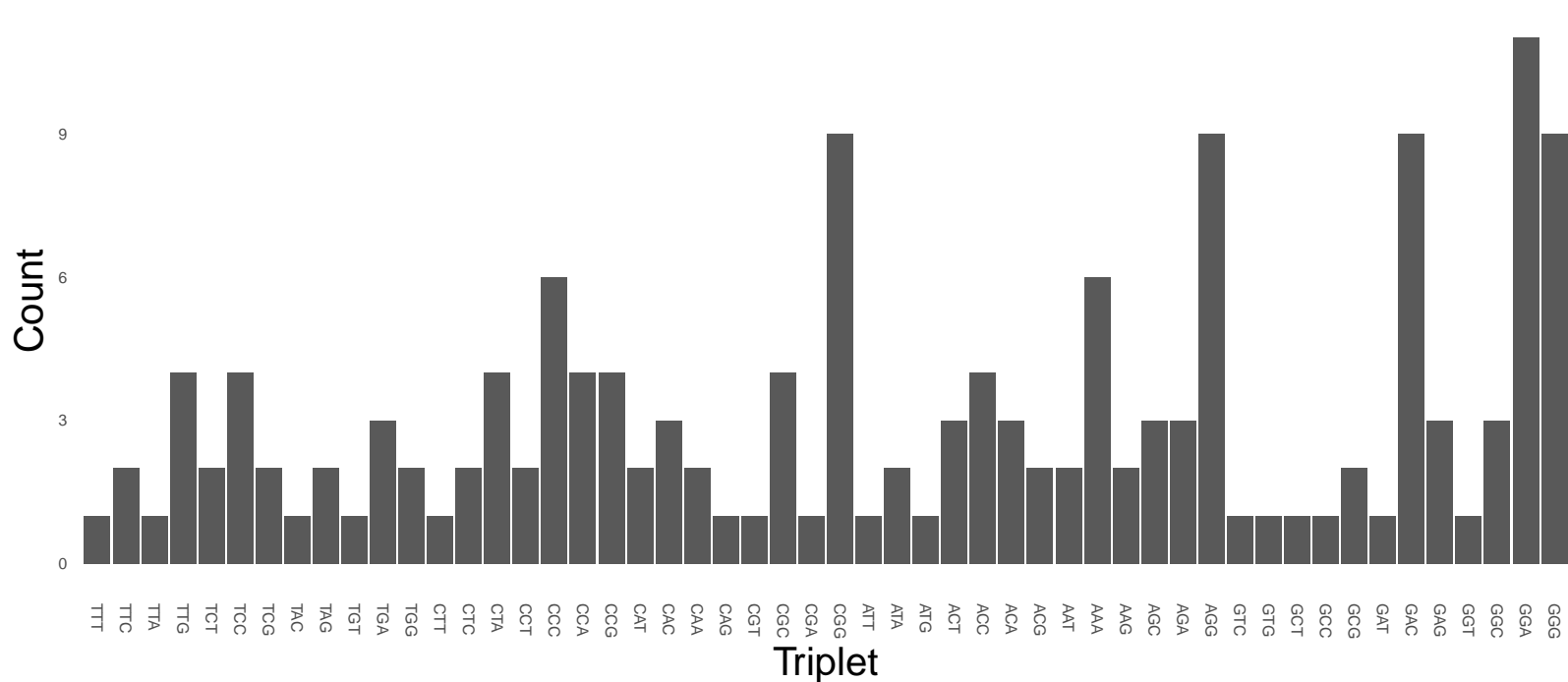
Gene TRBV7-2\*ap01\_G297A



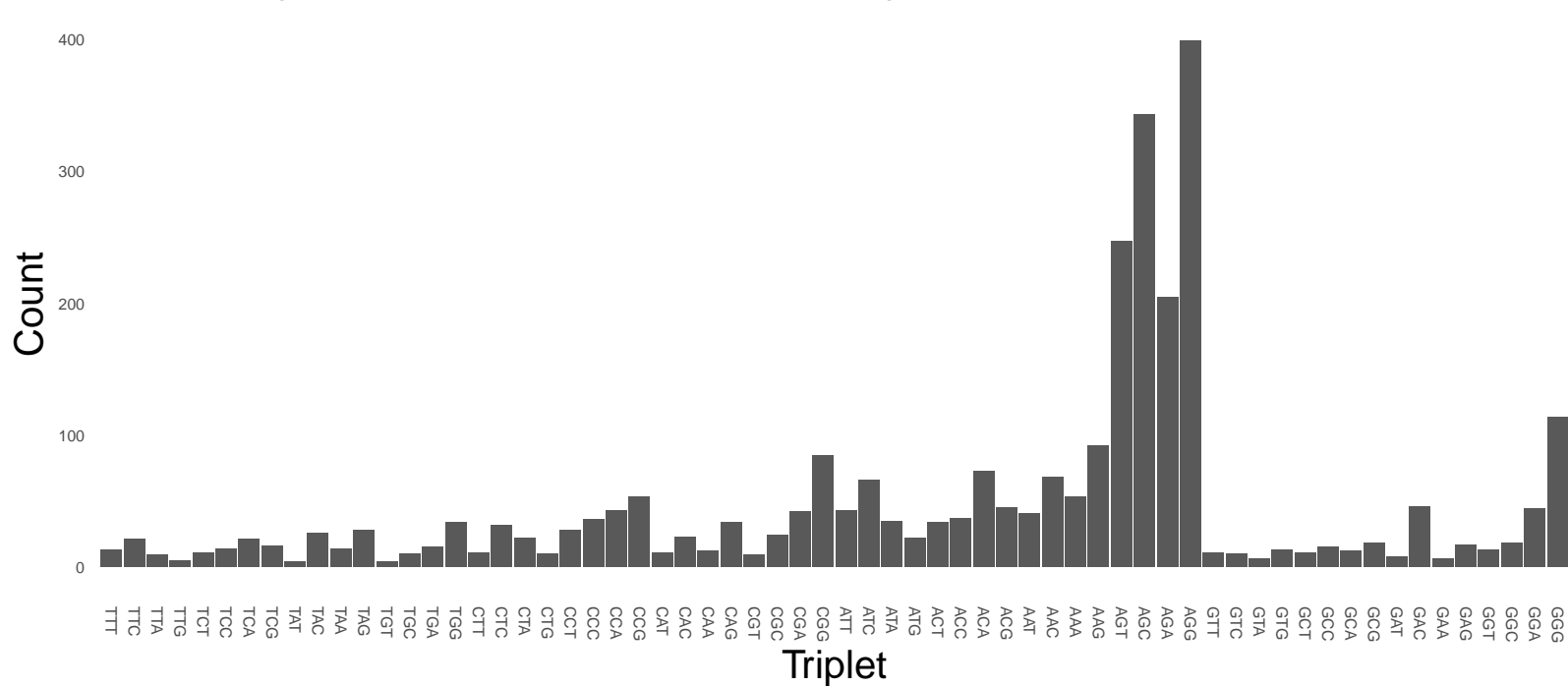
Gene TRBV7-8\*ap03\_C297A



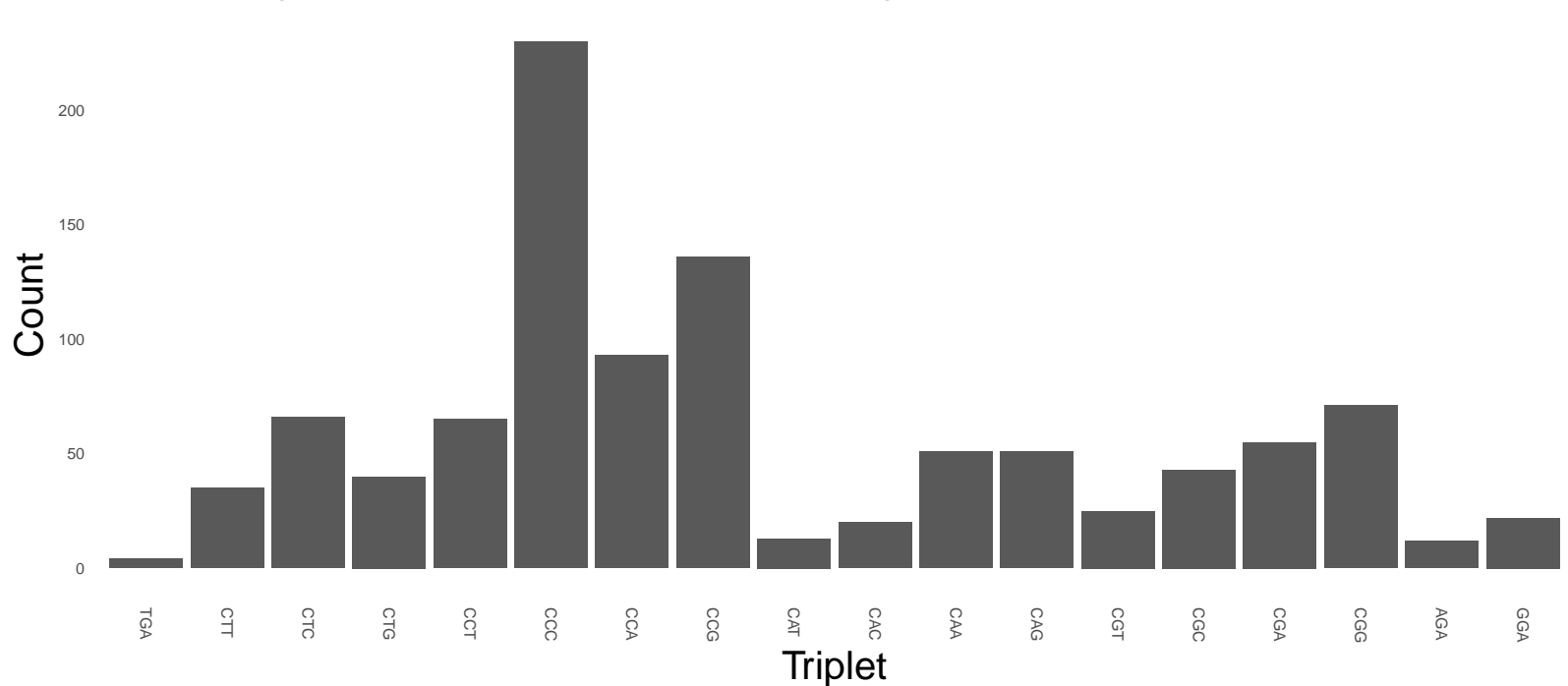
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



TRBV7-2\*ap01\_G297A- Final 3 nucleotides as a triplet

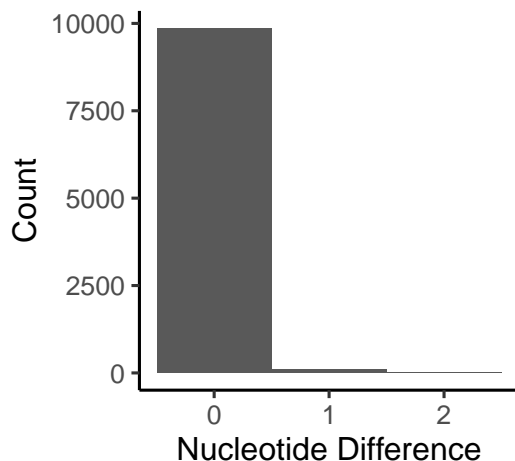


TRBV7-8\*ap03\_C297A- Final 3 nucleotides as a triplet



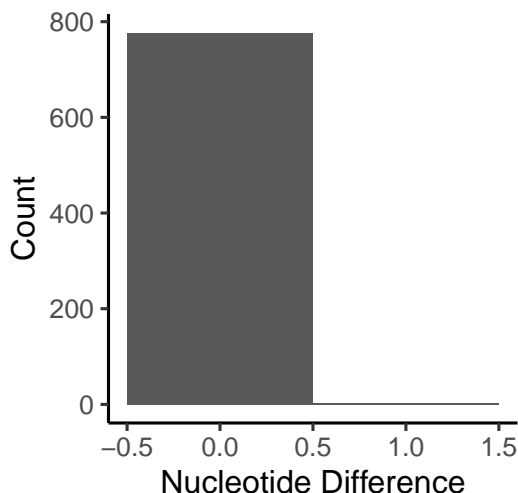
### TRBV20-1\*ap01

9977 sequences assigned  
9864 (98.9%) exact matches, in which:  
9746 unique CDR3  
13 unique J



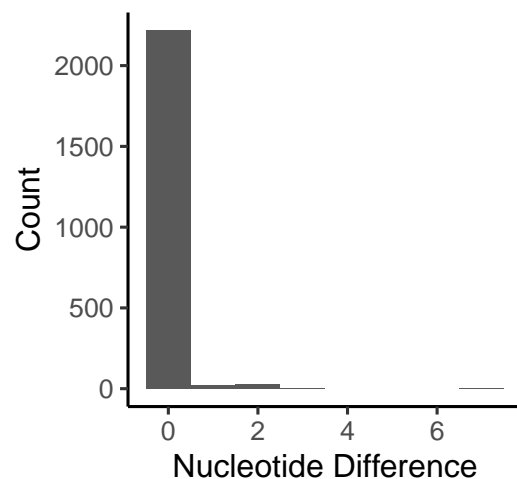
### TRBV10-2\*ap01

780 sequences assigned  
777 (99.6%) exact matches, in which:  
766 unique CDR3  
13 unique J



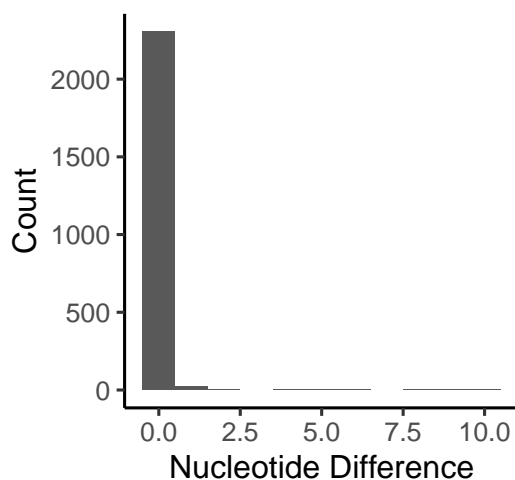
### TRBV13\*ap01

2268 sequences assigned  
2218 (97.8%) exact matches, in which:  
2157 unique CDR3  
13 unique J



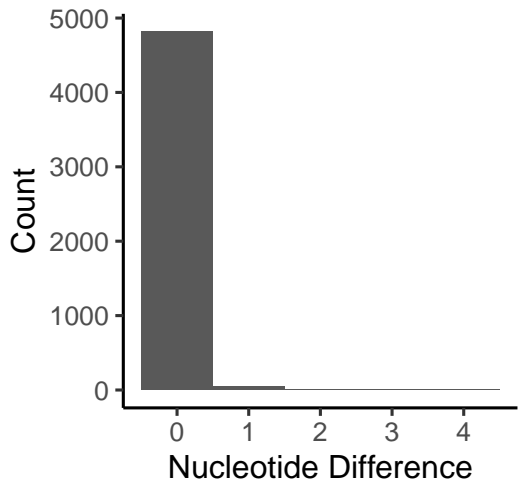
### TRBV10-1\*ap01

2342 sequences assigned  
2305 (98.4%) exact matches, in which:  
2256 unique CDR3  
13 unique J



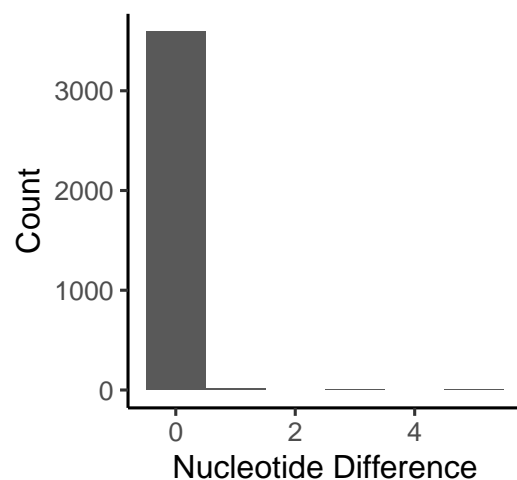
### TRBV10-3\*ap01

4868 sequences assigned  
4816 (98.9%) exact matches, in which:  
4742 unique CDR3  
13 unique J



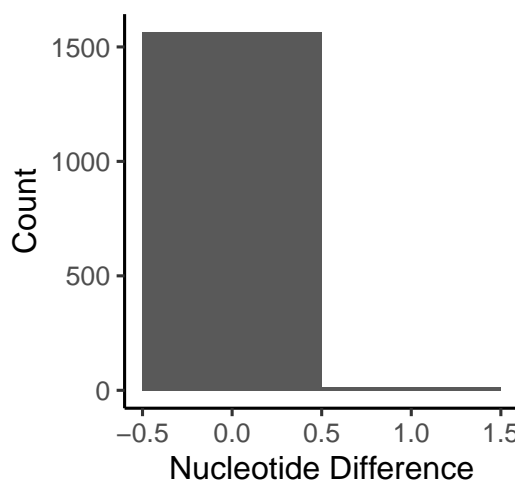
### TRBV14\*ap01

3607 sequences assigned  
3592 (99.6%) exact matches, in which:  
3553 unique CDR3  
13 unique J



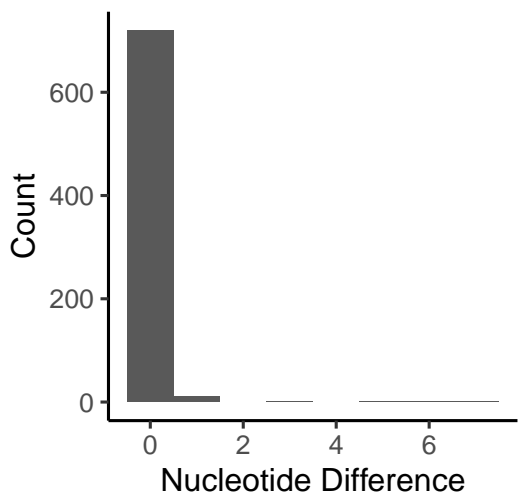
### TRBV20-1\*ap02

1580 sequences assigned  
1565 (99.1%) exact matches, in which:  
1544 unique CDR3  
13 unique J



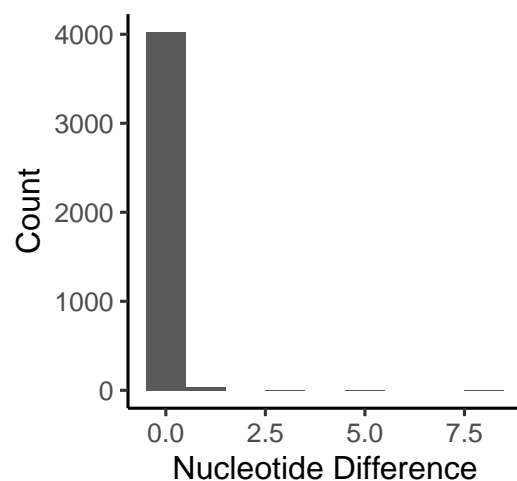
### TRBV1\*ap01

734 sequences assigned  
720 (98.1%) exact matches, in which:  
704 unique CDR3  
13 unique J



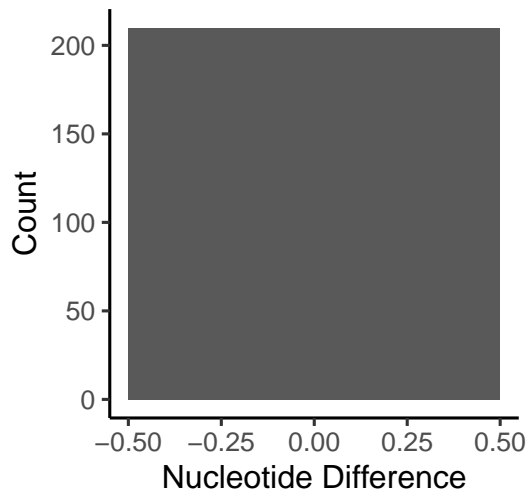
### TRBV15\*ap02

4063 sequences assigned  
4025 (99.1%) exact matches, in which:  
3954 unique CDR3  
13 unique J



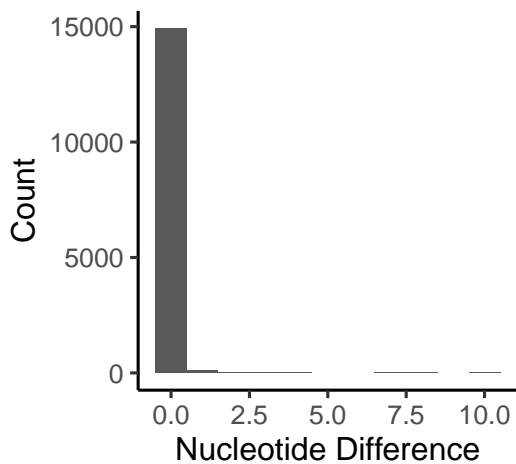
### TRBV16\*ap01

210 sequences assigned  
210 (100%) exact matches, in which:  
207 unique CDR3  
13 unique J



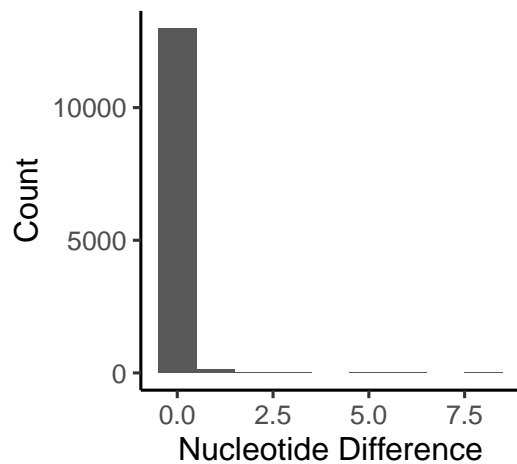
### TRBV19\*ap01

15060 sequences assigned  
14934 (99.2%) exact matches, in which:  
14837 unique CDR3  
13 unique J



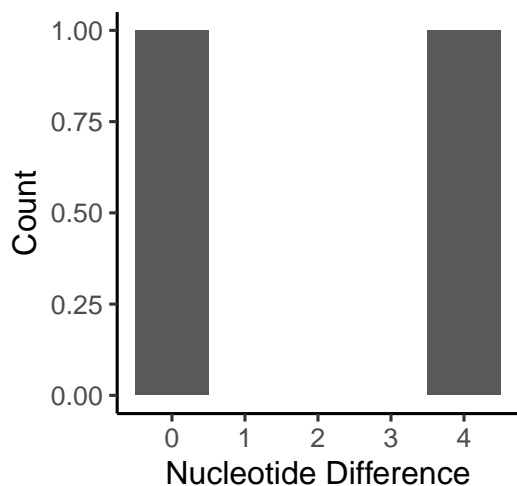
### TRBV27\*ap01

13144 sequences assigned  
12995 (98.9%) exact matches, in which:  
12720 unique CDR3  
13 unique J



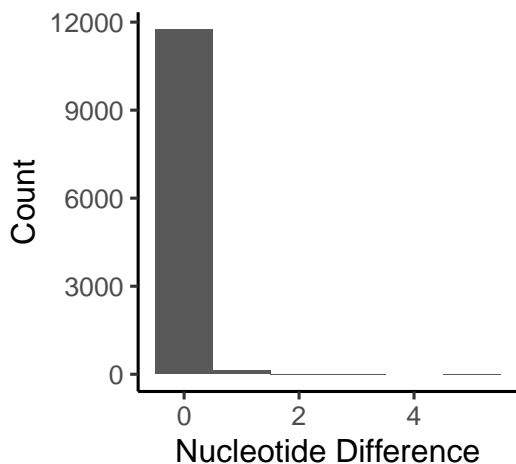
### TRBV17\*ap01

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



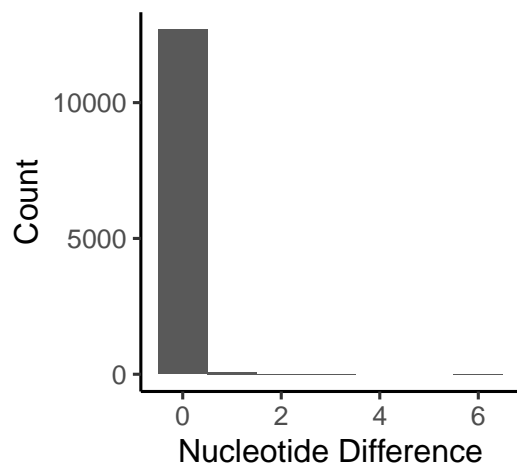
### TRBV2\*ap01

11884 sequences assigned  
11749 (98.9%) exact matches, in which:  
11532 unique CDR3  
13 unique J



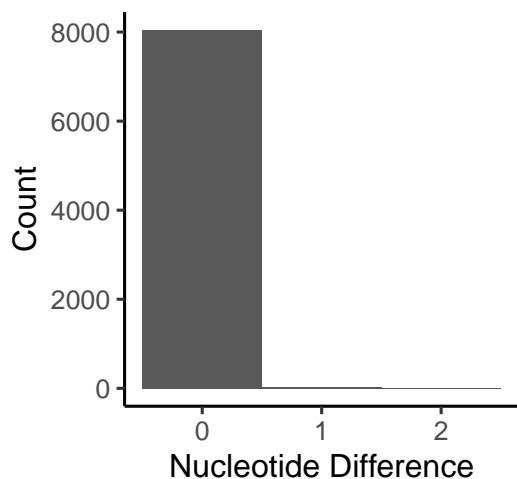
### TRBV28\*ap01

12779 sequences assigned  
12693 (99.3%) exact matches, in which:  
12518 unique CDR3  
13 unique J



### TRBV18\*ap01

8077 sequences assigned  
8045 (99.6%) exact matches, in which:  
8005 unique CDR3  
13 unique J



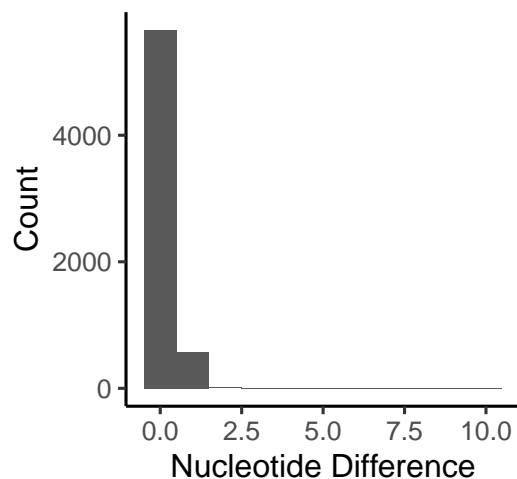
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



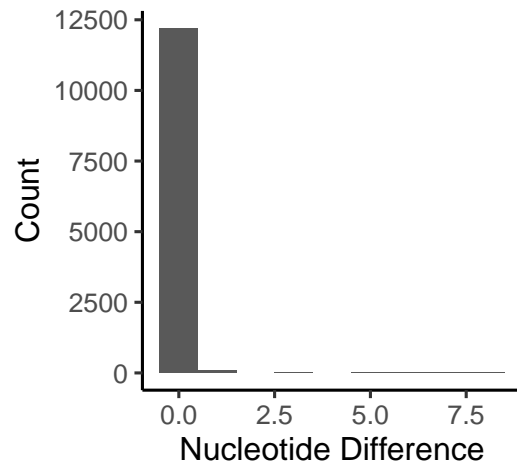
### TRBV30\*ap01

6260 sequences assigned  
5663 (90.5%) exact matches, in which:  
5517 unique CDR3  
13 unique J



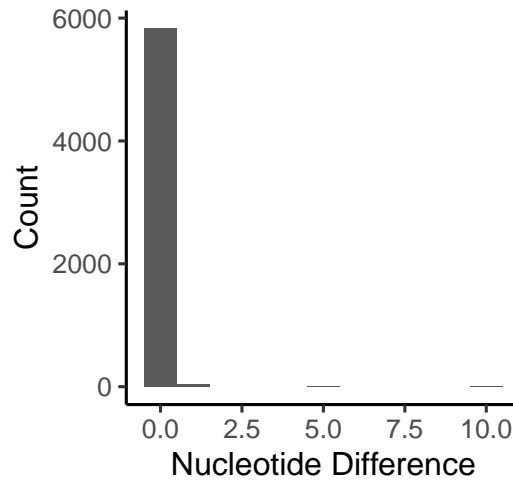
### TRBV9\*ap01

12302 sequences assigned  
12204 (99.2%) exact matches, in which:  
12059 unique CDR3  
13 unique J



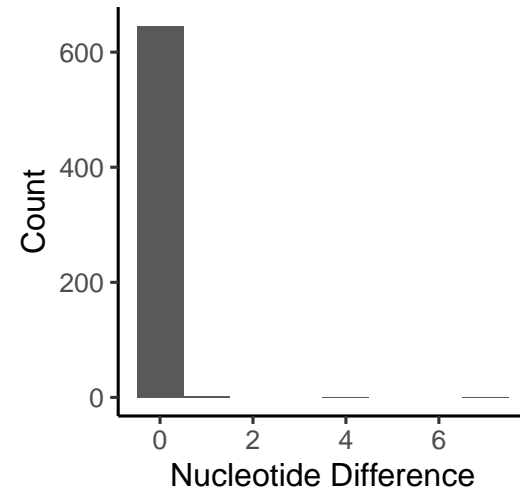
### TRBV11-2\*ap01

5869 sequences assigned  
5832 (99.4%) exact matches, in which:  
5788 unique CDR3  
13 unique J



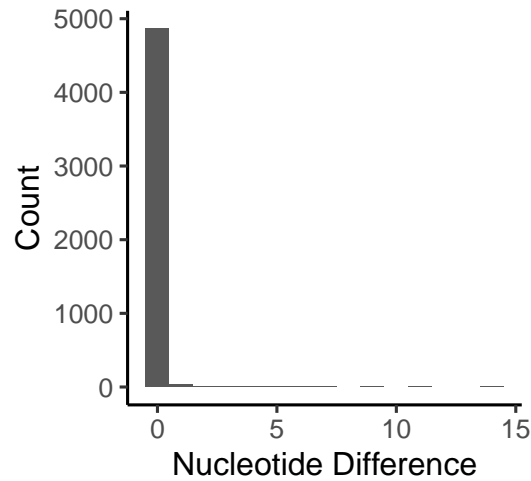
### TRBV12-2\*ap01

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



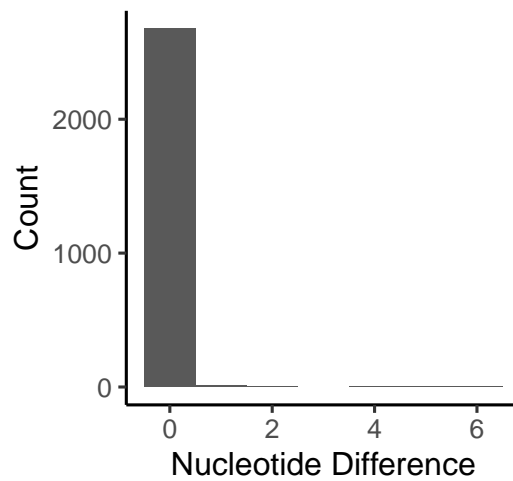
### TRBV21-1\*ap01

4920 sequences assigned  
4864 (98.9%) exact matches, in which:  
4817 unique CDR3  
13 unique J



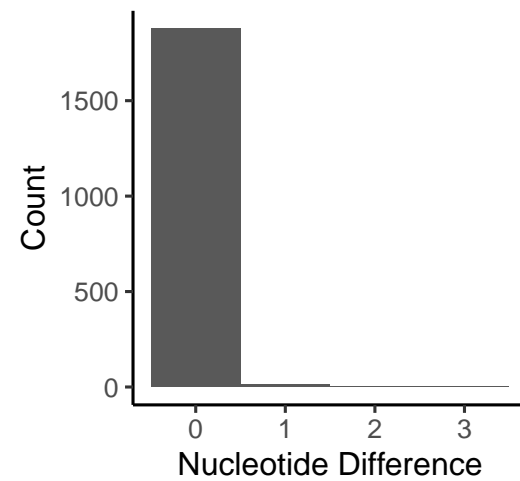
### TRBV11-3\*ap01

2695 sequences assigned  
2676 (99.3%) exact matches, in which:  
2656 unique CDR3  
13 unique J



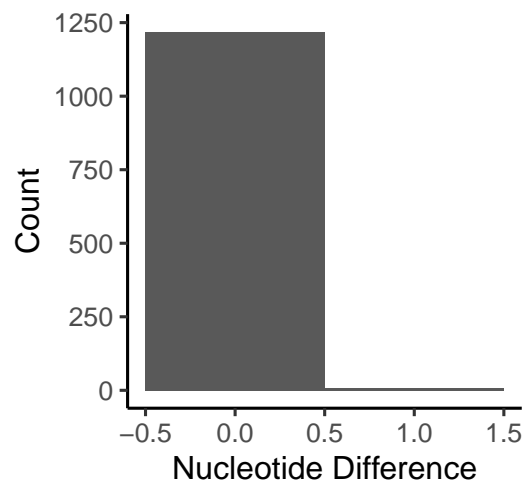
### TRBV12-5\*ap01

1896 sequences assigned  
1877 (99%) exact matches, in which:  
1860 unique CDR3  
13 unique J



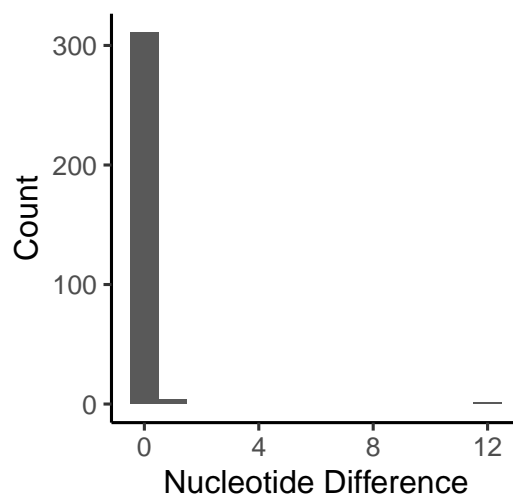
### TRBV11-1\*ap01

1225 sequences assigned  
1218 (99.4%) exact matches, in which:  
1203 unique CDR3  
13 unique J



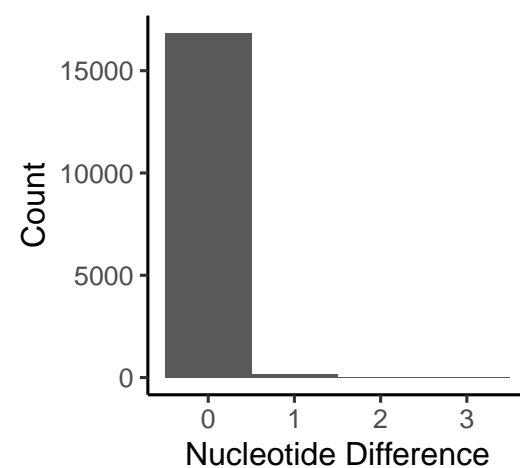
### TRBV12-1\*ap01

316 sequences assigned  
311 (98.4%) exact matches, in which:  
309 unique CDR3  
13 unique J



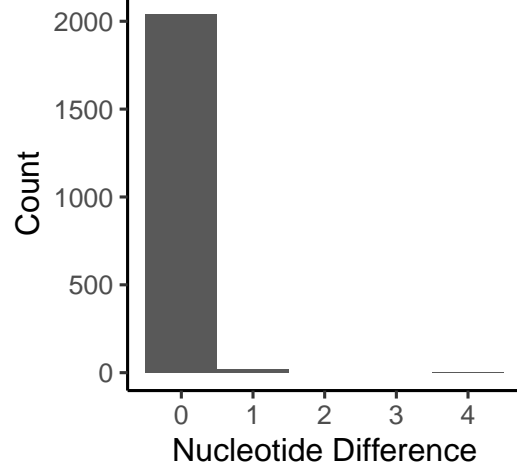
### TRBV12-34\*ap01

17015 sequences assigned  
16852 (99%) exact matches, in which:  
16592 unique CDR3  
13 unique J



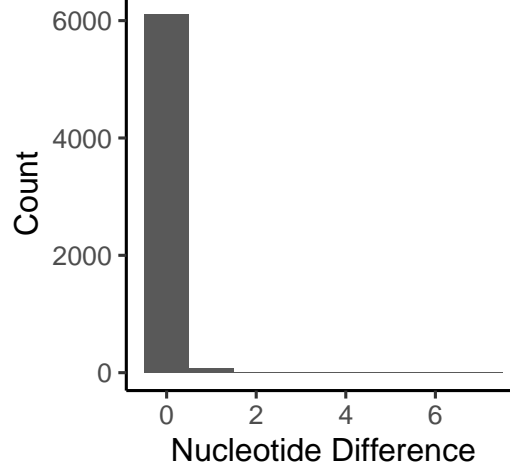
### TRBV23-1\*ap01

2060 sequences assigned  
2039 (99%) exact matches, in which:  
2016 unique CDR3  
13 unique J



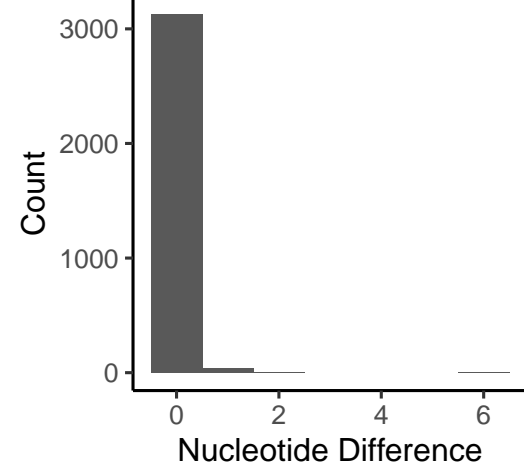
### TRBV24-1\*ap01

6188 sequences assigned  
6106 (98.7%) exact matches, in which:  
5980 unique CDR3  
13 unique J



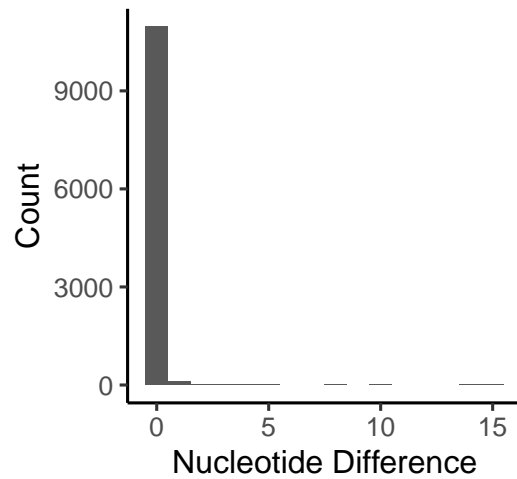
### TRBV25-1\*ap01

3171 sequences assigned  
3126 (98.6%) exact matches, in which:  
3042 unique CDR3  
13 unique J



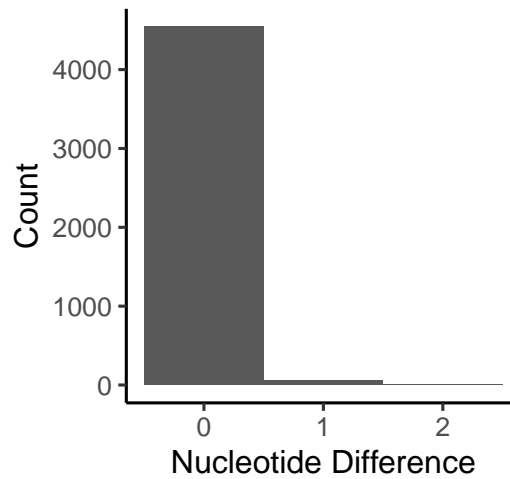
### TRBV3-12\*ap01

11089 sequences assigned  
10962 (98.9%) exact matches, in which:  
10774 unique CDR3  
13 unique J



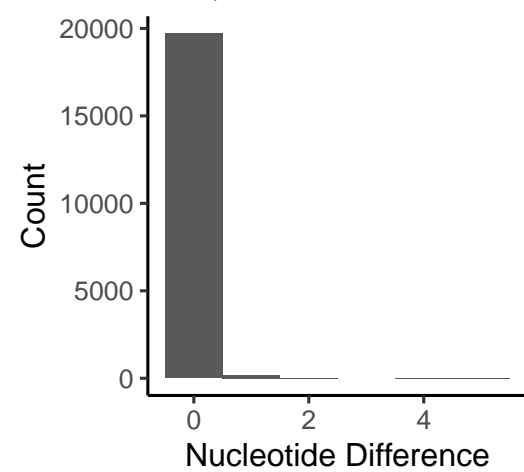
### TRBV4-2\*ap01

4607 sequences assigned  
4544 (98.6%) exact matches, in which:  
4465 unique CDR3  
13 unique J



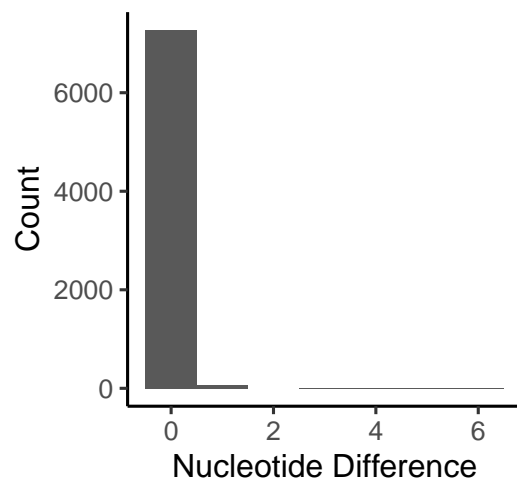
### TRBV5-1\*ap01

19910 sequences assigned  
19711 (99%) exact matches, in which:  
19267 unique CDR3  
13 unique J



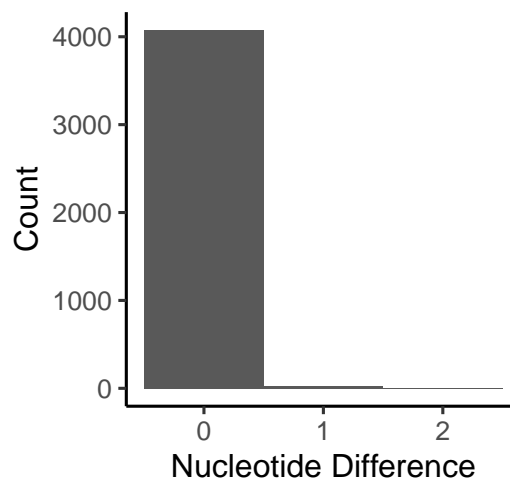
### TRBV4-1\*ap01

7346 sequences assigned  
7272 (99%) exact matches, in which:  
7109 unique CDR3  
13 unique J



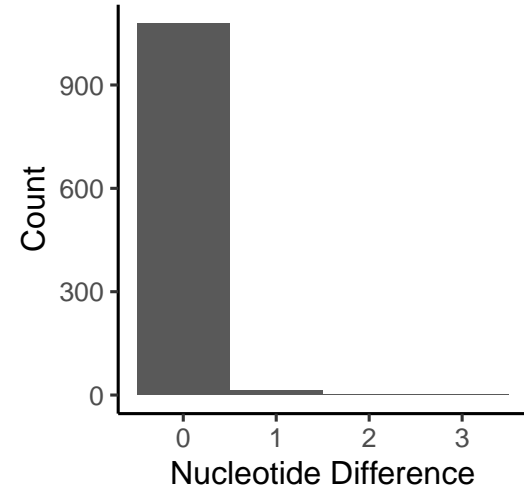
### TRBV4-3\*ap01

4106 sequences assigned  
4076 (99.3%) exact matches, in which:  
3997 unique CDR3  
13 unique J



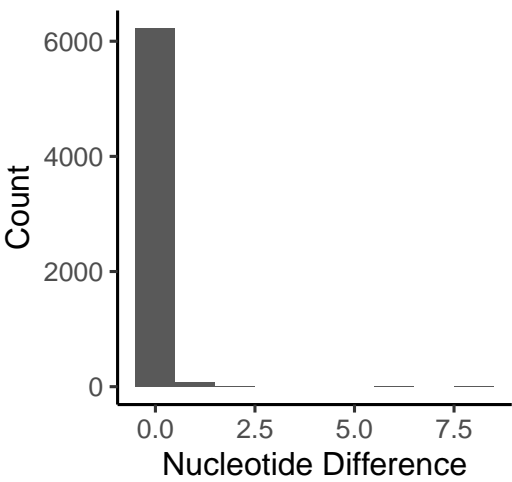
### TRBV5-3\*ap01

1094 sequences assigned  
1079 (98.6%) exact matches, in which:  
1070 unique CDR3  
13 unique J



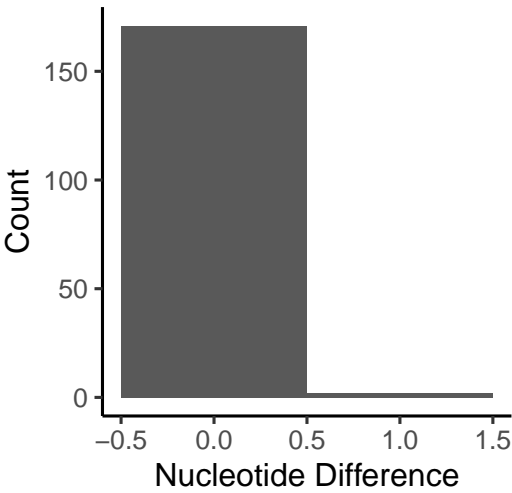
TRBV5-4\*ap01

6298 sequences assigned  
6223 (98.8%) exact matches, in which:  
6085 unique CDR3  
13 unique J



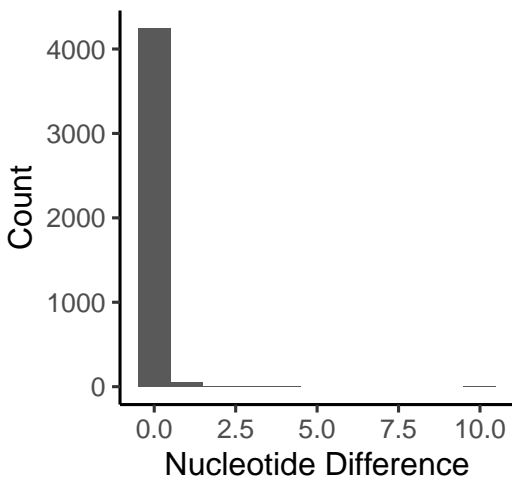
TRBV5-7\*ap01

173 sequences assigned  
171 (98.8%) exact matches, in which:  
165 unique CDR3  
13 unique J



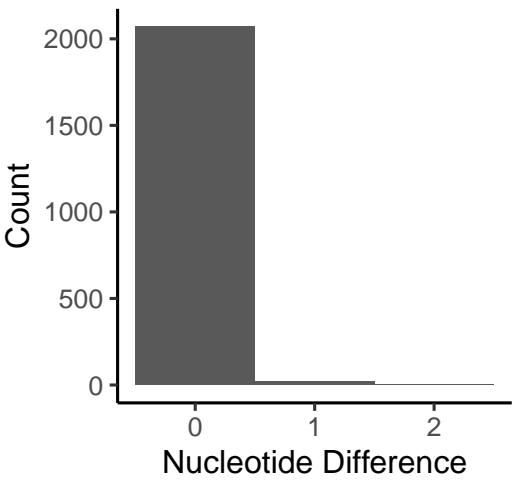
TRBV6-4\*ap01

4309 sequences assigned  
4244 (98.5%) exact matches, in which:  
4196 unique CDR3  
13 unique J



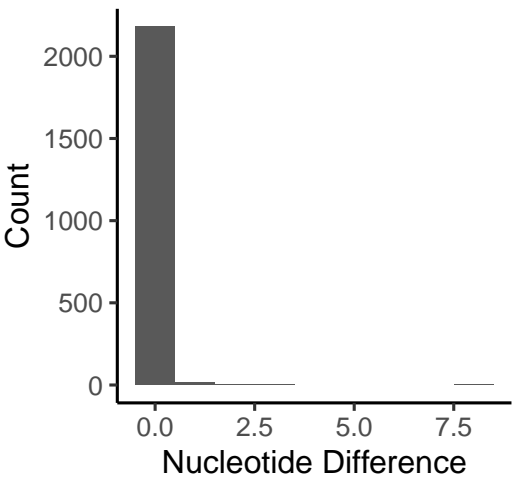
TRBV5-5\*ap01

2090 sequences assigned  
2070 (99%) exact matches, in which:  
2047 unique CDR3  
14 unique J



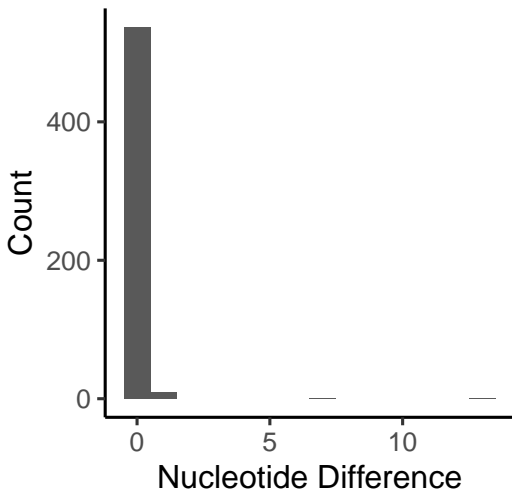
TRBV5-8\*ap01

2204 sequences assigned  
2180 (98.9%) exact matches, in which:  
2158 unique CDR3  
13 unique J



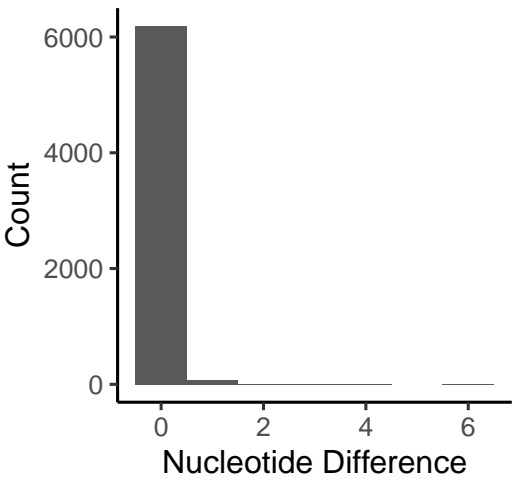
TRBV6-7\*ap01

548 sequences assigned  
537 (98%) exact matches, in which:  
527 unique CDR3  
13 unique J



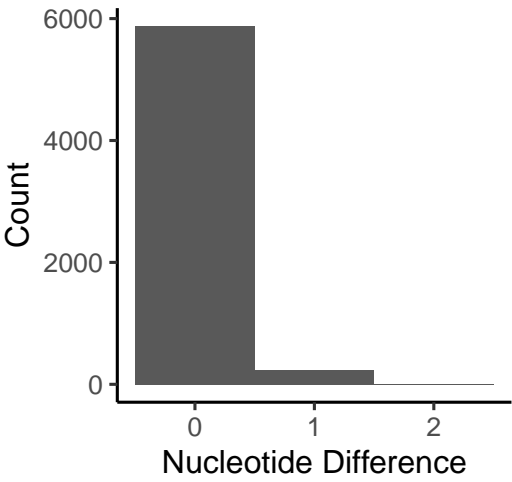
TRBV5-6\*ap01

6266 sequences assigned  
6189 (98.8%) exact matches, in which:  
5990 unique CDR3  
13 unique J



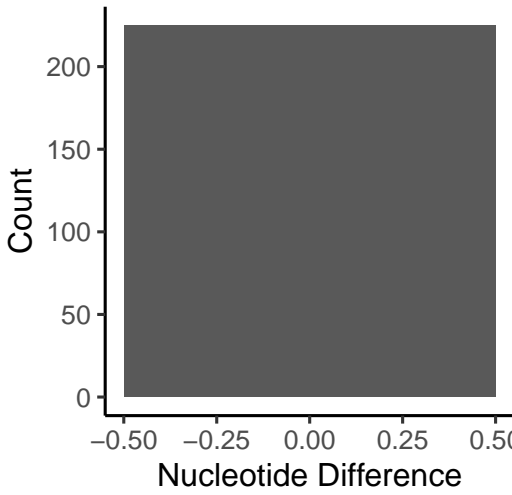
TRBV6-1\*ap01

6117 sequences assigned  
5878 (96.1%) exact matches, in which:  
5743 unique CDR3  
13 unique J



TRBV6-8\*ap01

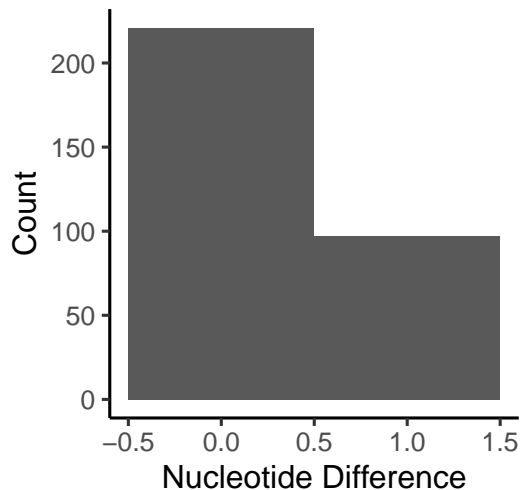
225 sequences assigned  
225 (100%) exact matches, in which:  
220 unique CDR3  
13 unique J





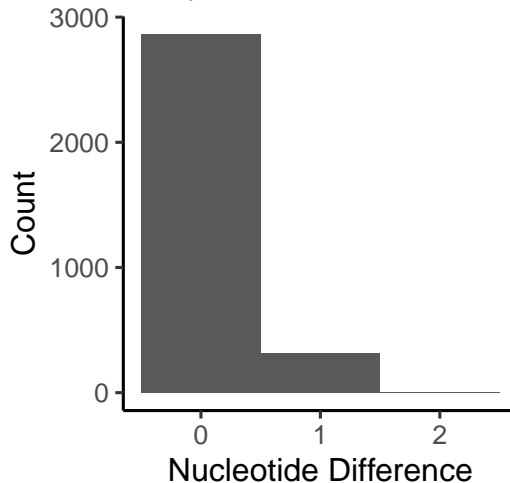
### TRBV6-9\*ap01

318 sequences assigned  
221 (69.5%) exact matches, in which:  
212 unique CDR3  
13 unique J



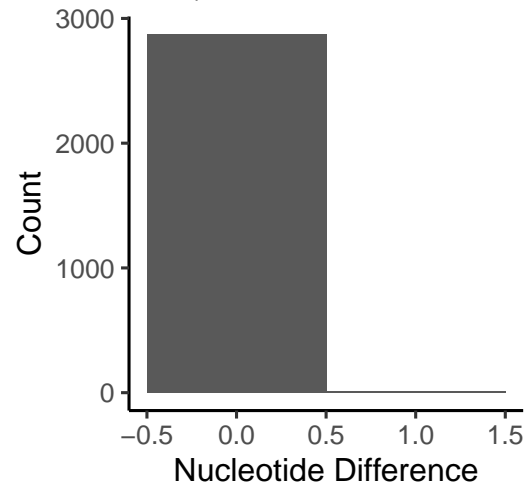
### TRBV6-56\*ap02

3182 sequences assigned  
2862 (89.9%) exact matches, in which:  
2784 unique CDR3  
13 unique J



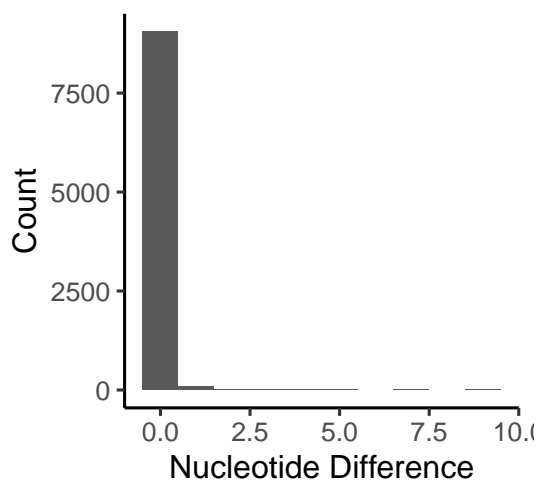
### TRBV7-2\*ap01\_G297A

2885 sequences assigned  
2872 (99.5%) exact matches, in which:  
2839 unique CDR3  
13 unique J



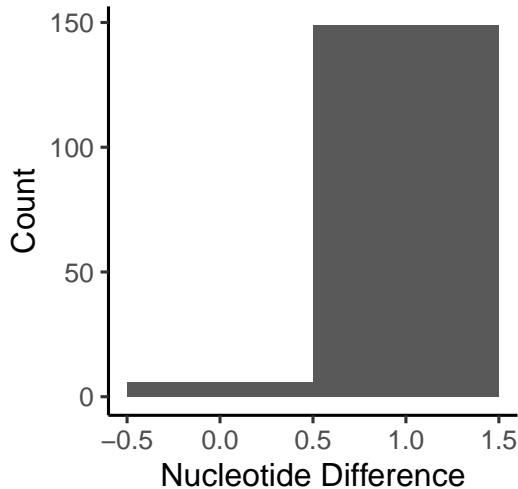
### TRBV6-23\*ap01

9153 sequences assigned  
9050 (98.9%) exact matches, in which:  
8799 unique CDR3  
13 unique J



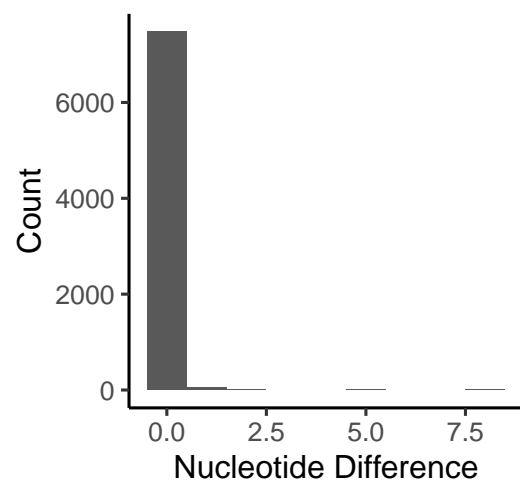
### TRBV7-1\*ap01\_T296C

155 sequences assigned  
6 (3.9%) exact matches, in which:  
6 unique CDR3  
5 unique J



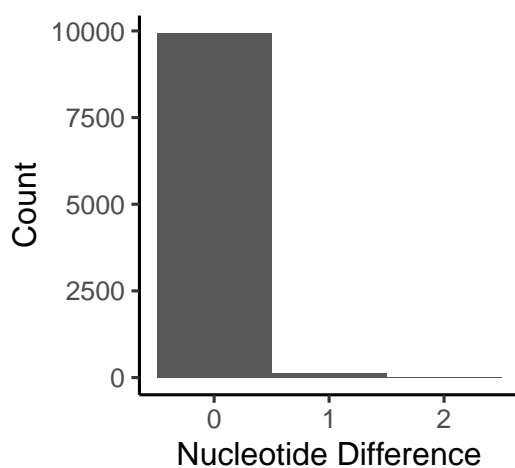
### TRBV7-3\*ap01

7534 sequences assigned  
7476 (99.2%) exact matches, in which:  
7414 unique CDR3  
14 unique J



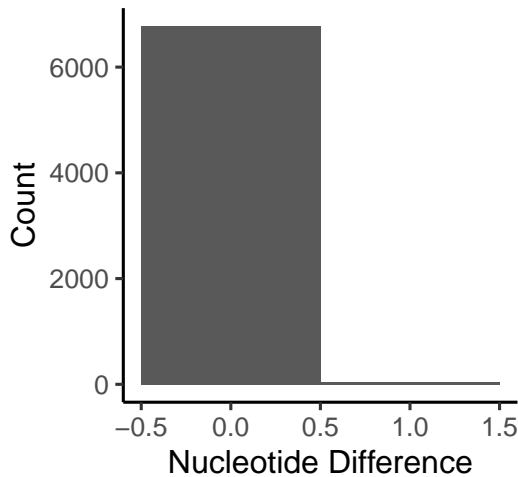
### TRBV6-56\*ap01

10068 sequences assigned  
9946 (98.8%) exact matches, in which:  
9712 unique CDR3  
13 unique J



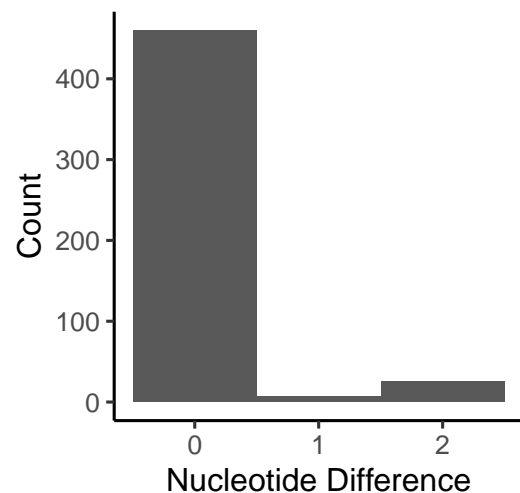
### TRBV7-2\*ap01

6822 sequences assigned  
6777 (99.3%) exact matches, in which:  
6696 unique CDR3  
13 unique J



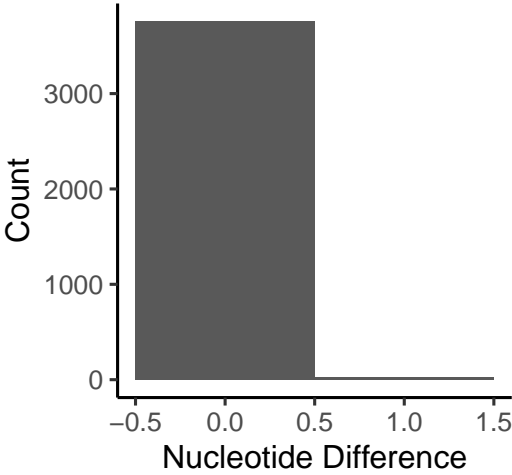
### TRBV7-4\*ap01

492 sequences assigned  
460 (93.5%) exact matches, in which:  
452 unique CDR3  
13 unique J



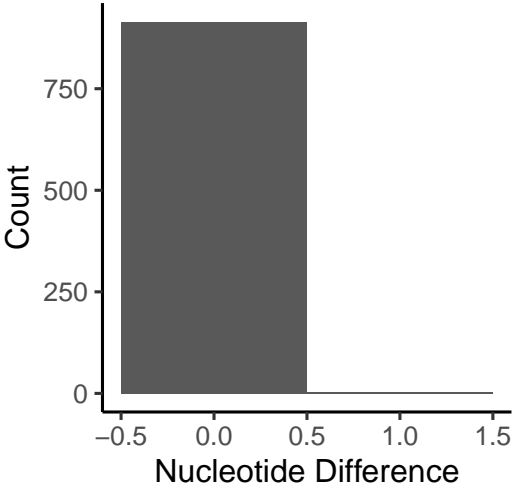
TRBV7-6\*ap01

3787 sequences assigned  
3757 (99.2%) exact matches, in which:  
3695 unique CDR3  
13 unique J



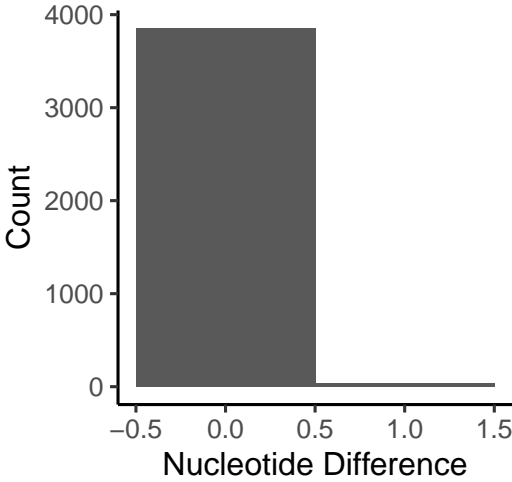
TRBV7-8\*ap03

919 sequences assigned  
915 (99.6%) exact matches, in which:  
901 unique CDR3  
13 unique J



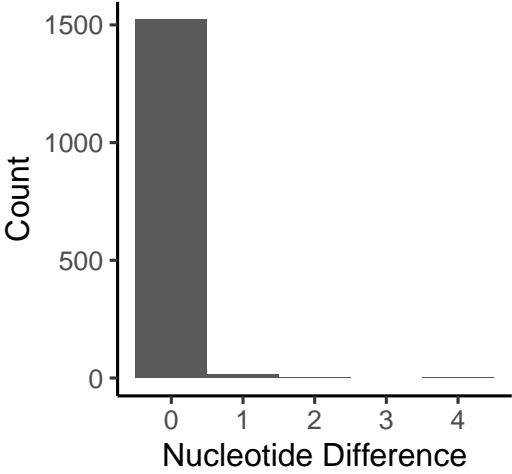
TRBV29-1\*ap01

3895 sequences assigned  
3852 (98.9%) exact matches, in which:  
3752 unique CDR3  
13 unique J



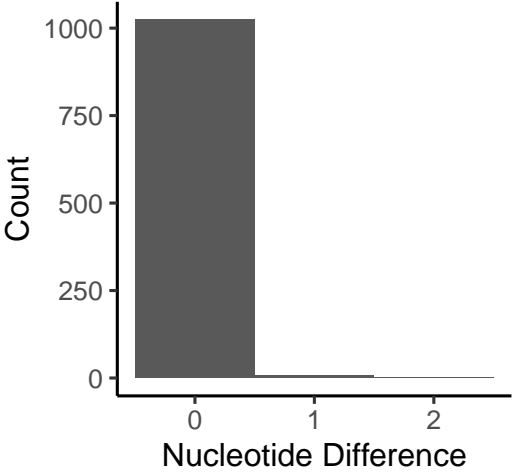
TRBV7-7\*ap01

1538 sequences assigned  
1522 (99%) exact matches, in which:  
1499 unique CDR3  
13 unique J



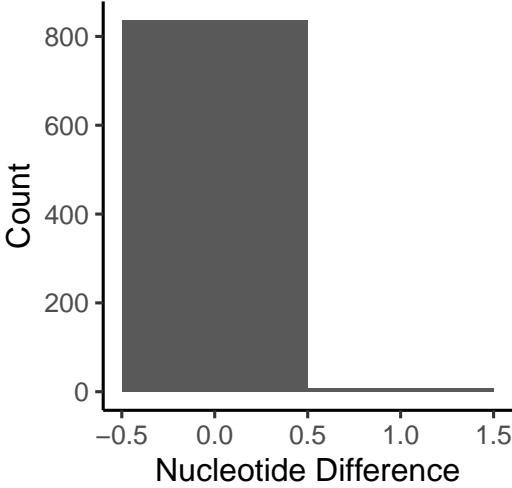
TRBV7-8\*ap03\_C297A

1032 sequences assigned  
1024 (99.2%) exact matches, in which:  
1008 unique CDR3  
13 unique J



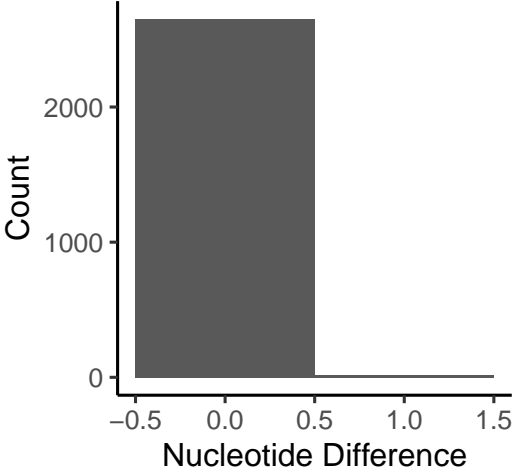
TRBV29-1\*ap02

845 sequences assigned  
837 (99.1%) exact matches, in which:  
813 unique CDR3  
13 unique J



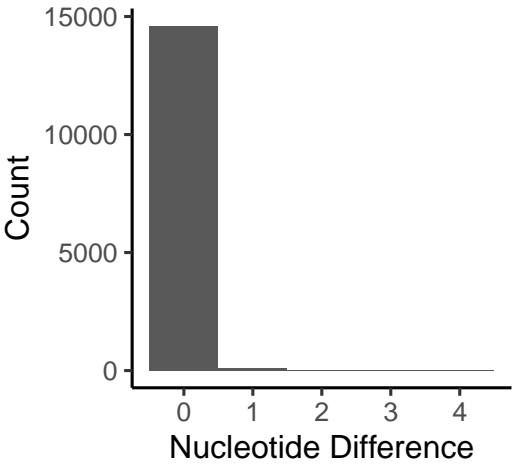
TRBV7-8\*ap01

2670 sequences assigned  
2651 (99.3%) exact matches, in which:  
2600 unique CDR3  
13 unique J

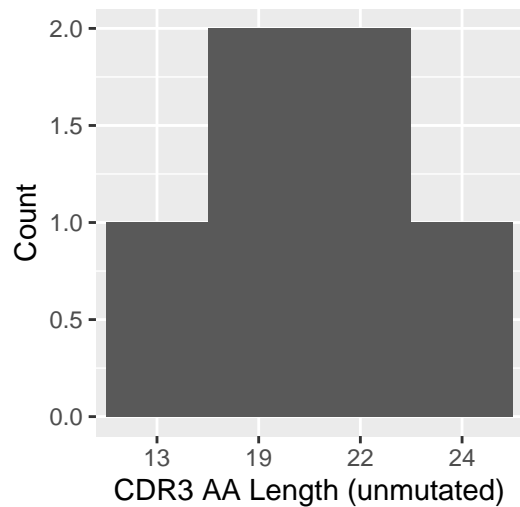


TRBV7-9\*ap01

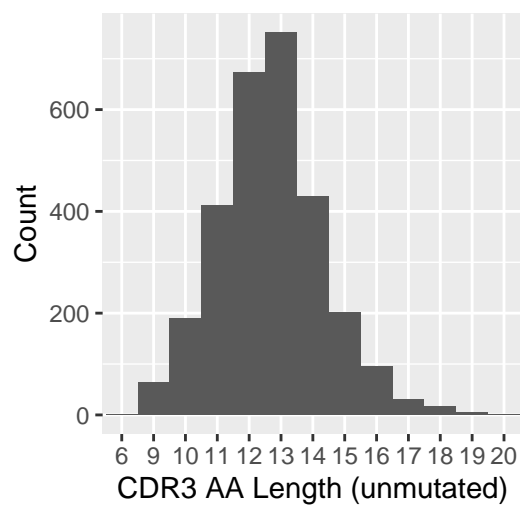
14711 sequences assigned  
14607 (99.3%) exact matches, in which:  
14450 unique CDR3  
13 unique J



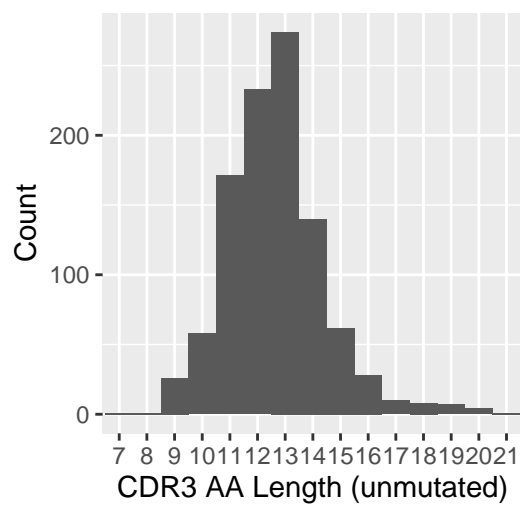
TRBV7-1\*ap01\_T296C



TRBV7-2\*ap01\_G297A



TRBV7-8\*ap03\_C297A





[illegible]