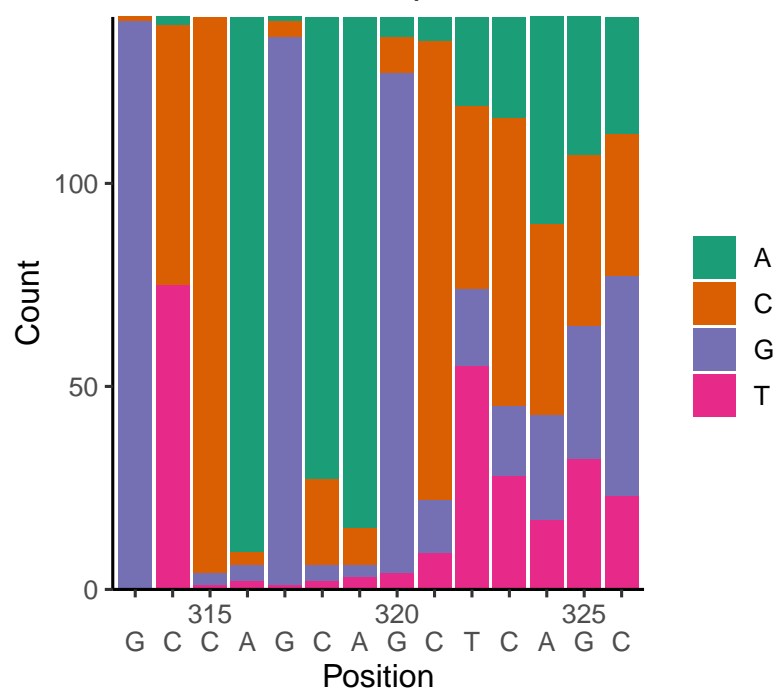
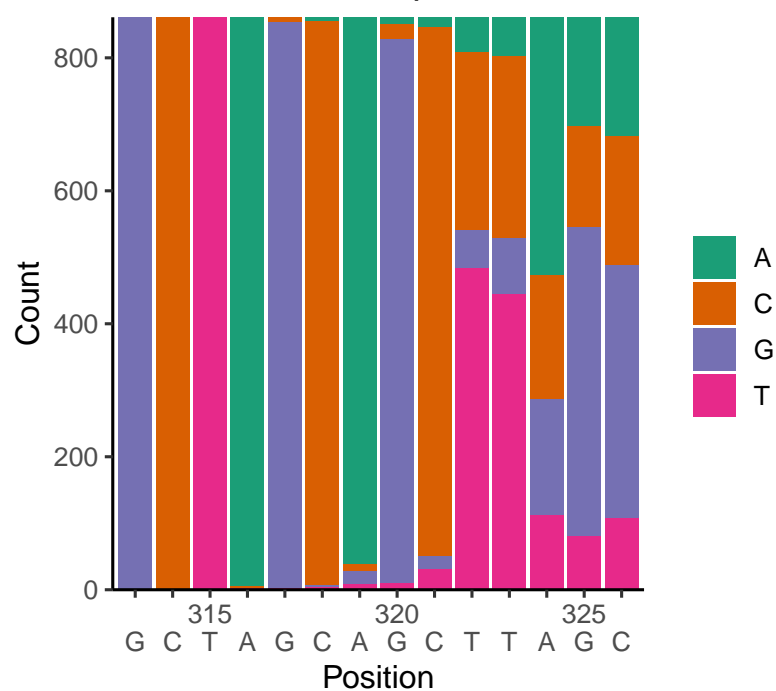


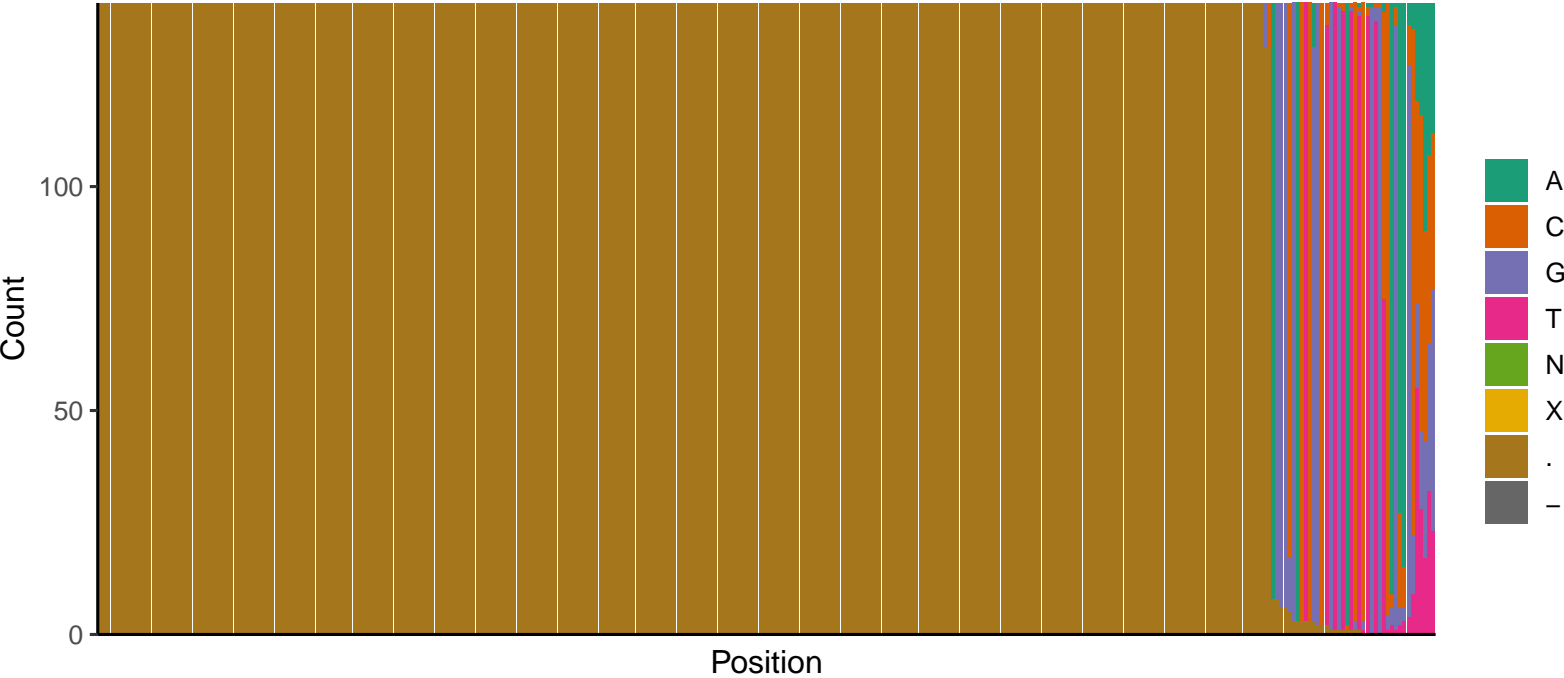
Gene TRBV7-1\*ap01\_T296C



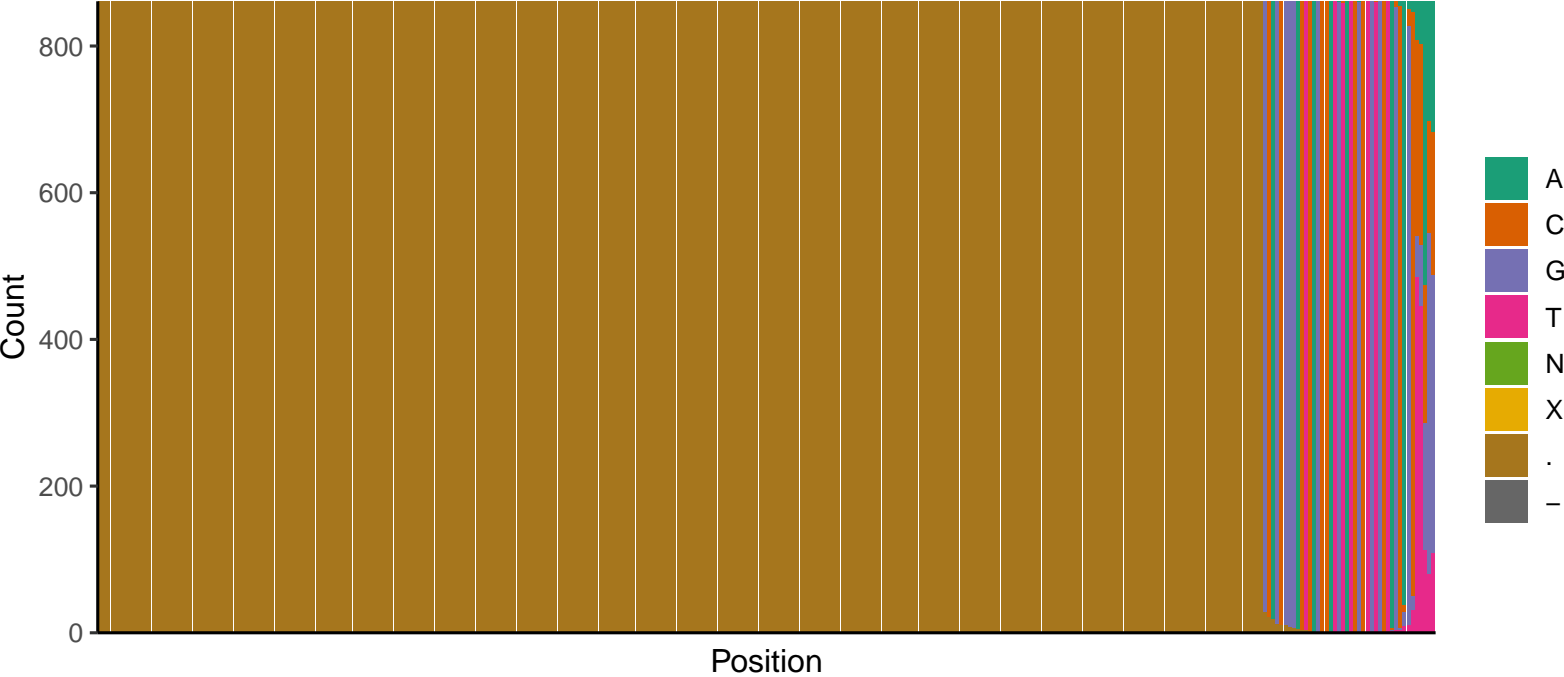
Gene TRBV7-7\*ap01\_C315T



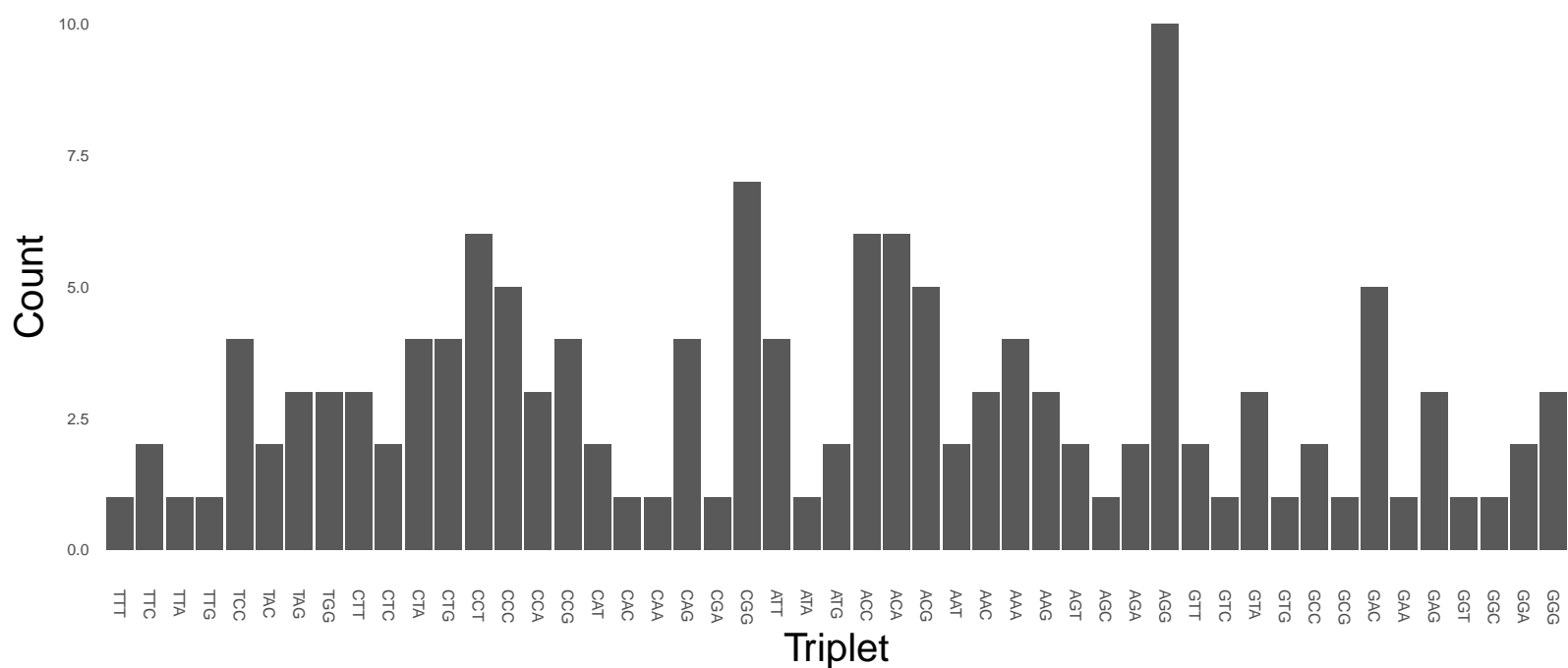
Gene TRBV7-1\*ap01\_T296C



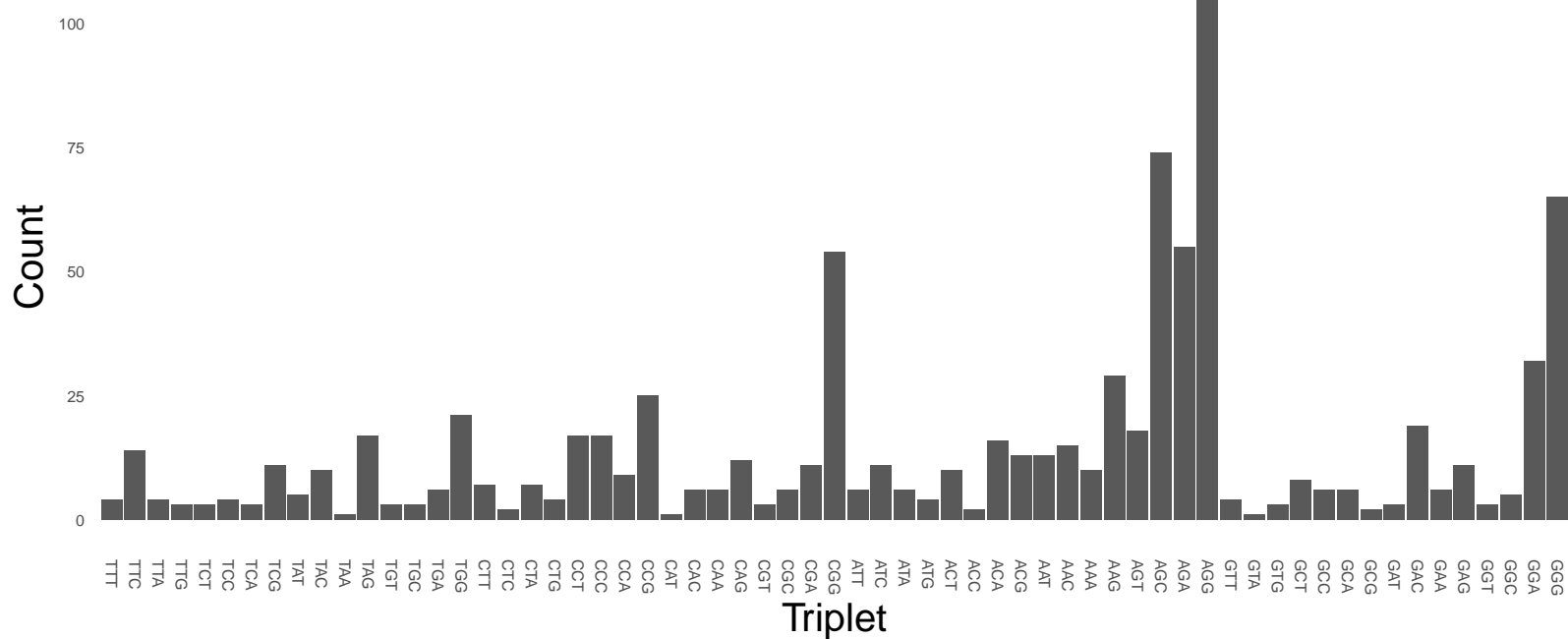
Gene TRBV7-7\*ap01\_C315T



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

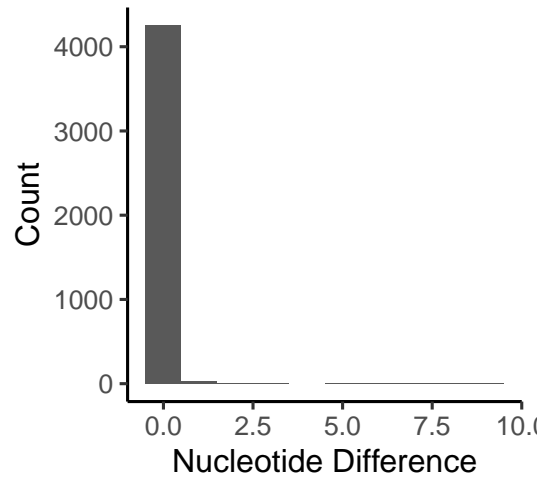


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



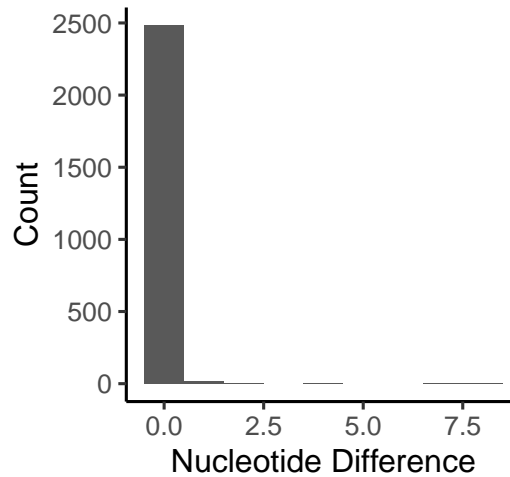
### TRBV10-1\*ap01

4290 sequences assigned  
4253 (99.1%) exact matches, in which:  
4206 unique CDR3  
13 unique J



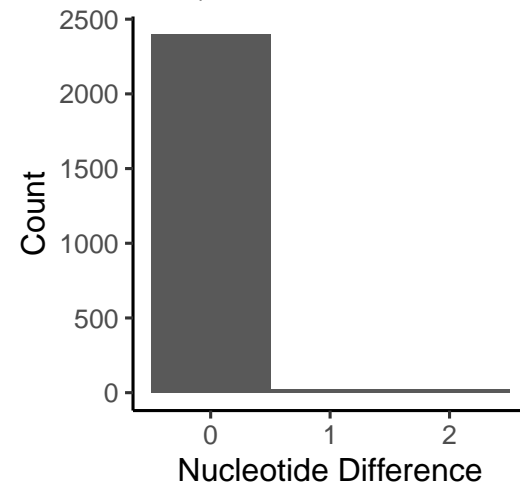
### TRBV10-2\*ap01

2505 sequences assigned  
2483 (99.1%) exact matches, in which:  
2468 unique CDR3  
13 unique J



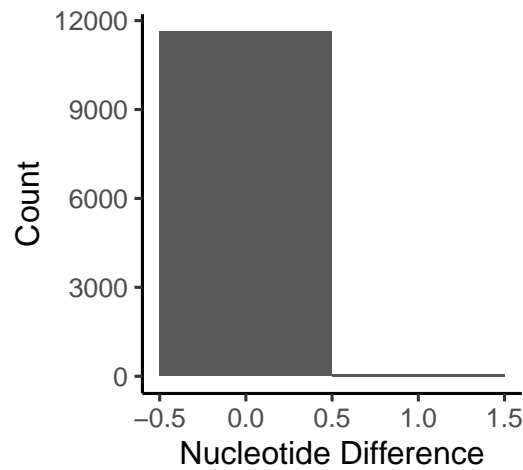
### TRBV13\*ap01

2446 sequences assigned  
2398 (98%) exact matches, in which:  
2373 unique CDR3  
13 unique J



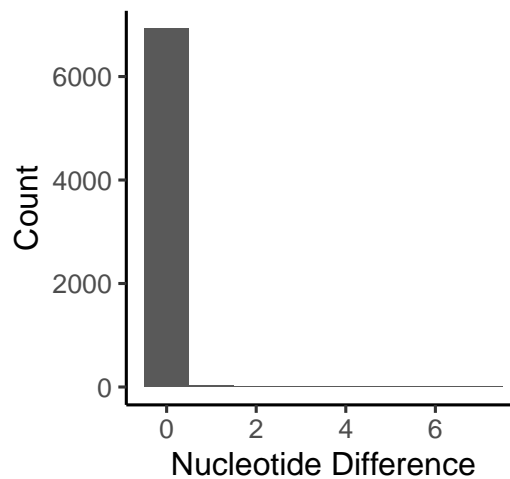
### TRBV20-1\*ap01

11711 sequences assigned  
11634 (99.3%) exact matches, in which:  
11558 unique CDR3  
13 unique J



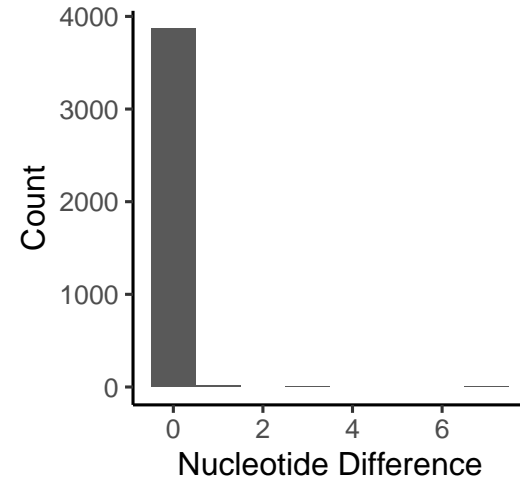
### TRBV10-3\*ap01

6969 sequences assigned  
6924 (99.4%) exact matches, in which:  
6871 unique CDR3  
13 unique J



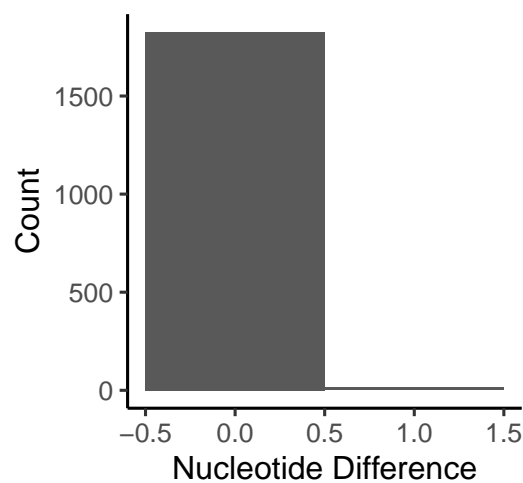
### TRBV14\*ap01

3885 sequences assigned  
3867 (99.5%) exact matches, in which:  
3848 unique CDR3  
13 unique J



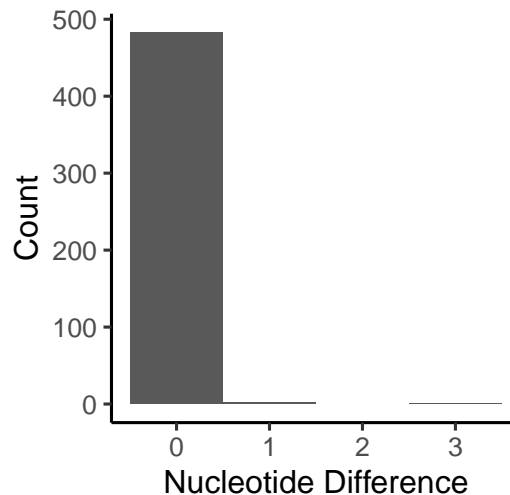
### TRBV20-1\*ap02

1840 sequences assigned  
1826 (99.2%) exact matches, in which:  
1817 unique CDR3  
13 unique J



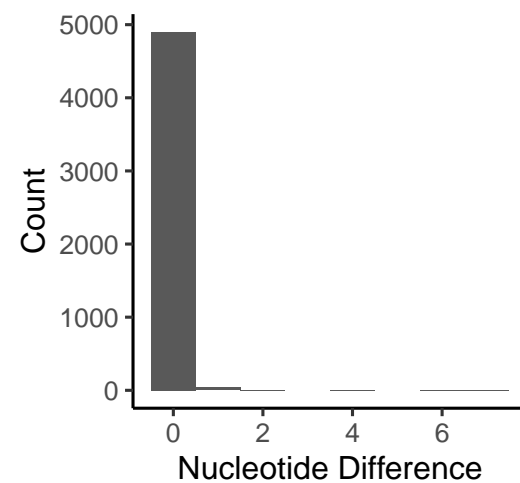
### TRBV1\*ap01

486 sequences assigned  
483 (99.4%) exact matches, in which:  
469 unique CDR3  
13 unique J



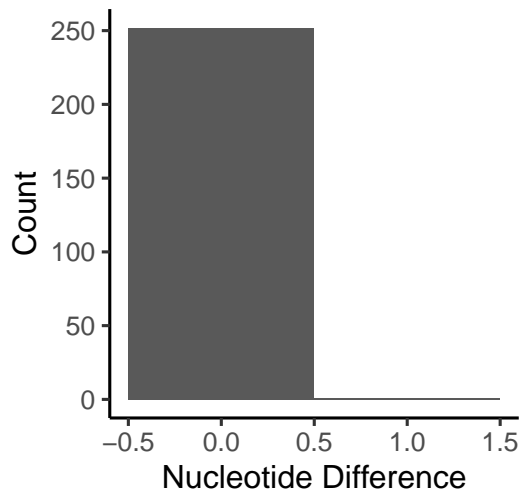
### TRBV15\*ap02

4943 sequences assigned  
4899 (99.1%) exact matches, in which:  
4852 unique CDR3  
13 unique J



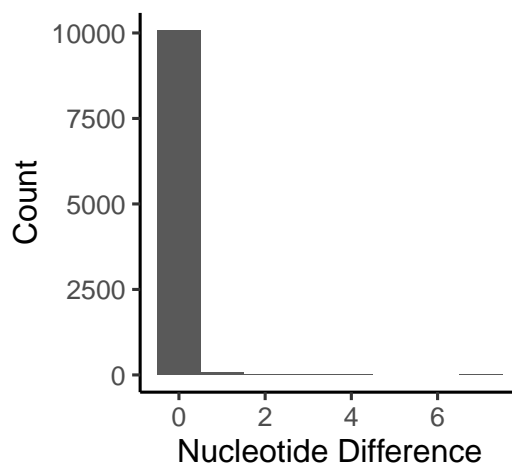
### TRBV16\*ap01

253 sequences assigned  
252 (99.6%) exact matches, in which:  
251 unique CDR3  
13 unique J



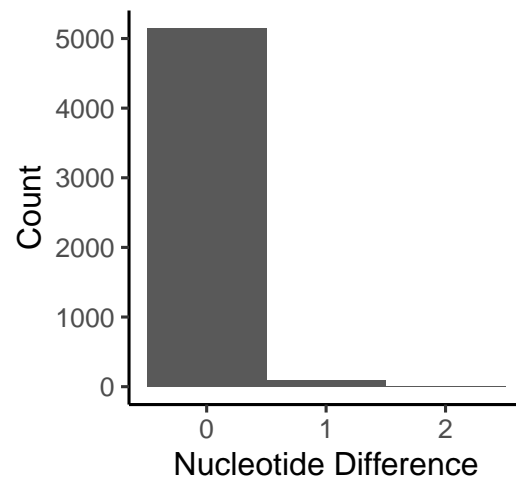
### TRBV2\*ap01

10172 sequences assigned  
10082 (99.1%) exact matches, in which:  
9983 unique CDR3  
13 unique J



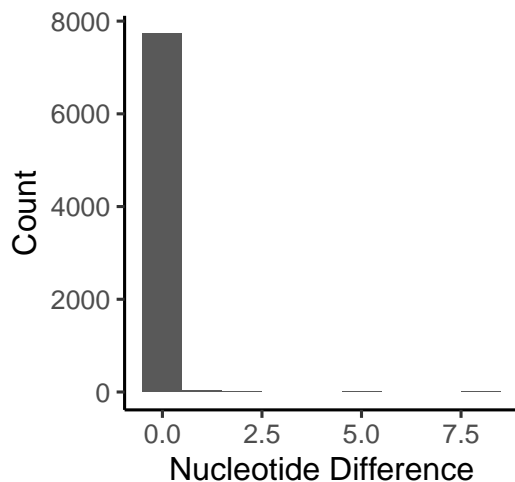
### TRBV30\*ap01

5233 sequences assigned  
5145 (98.3%) exact matches, in which:  
5049 unique CDR3  
13 unique J



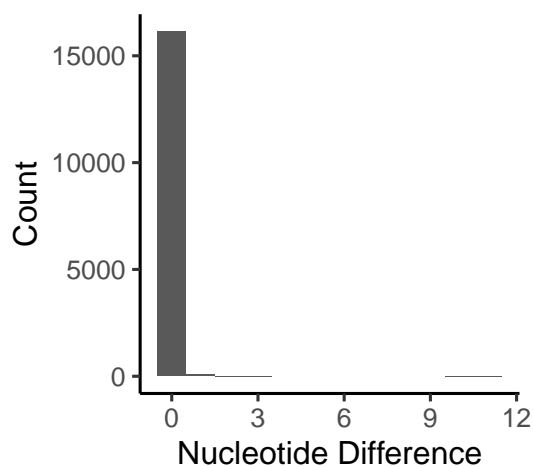
### TRBV18\*ap01

7763 sequences assigned  
7728 (99.5%) exact matches, in which:  
7705 unique CDR3  
13 unique J



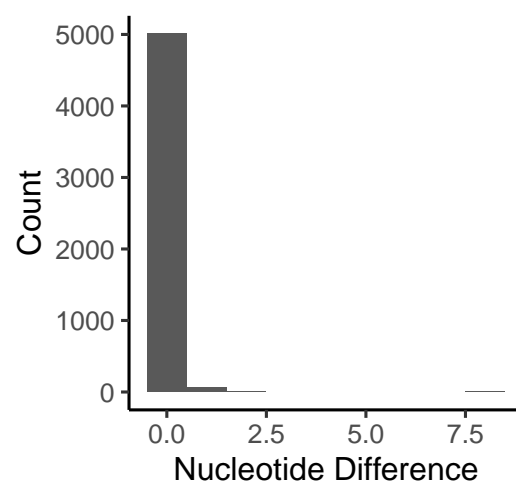
### TRBV27\*ap01

16236 sequences assigned  
16139 (99.4%) exact matches, in which:  
16033 unique CDR3  
13 unique J



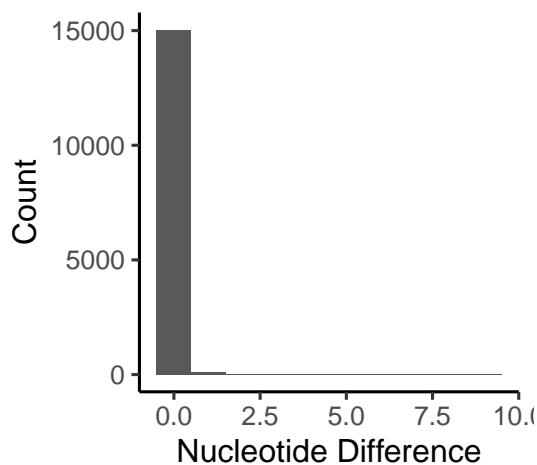
### TRBV30\*ap02

5076 sequences assigned  
5010 (98.7%) exact matches, in which:  
4915 unique CDR3  
13 unique J



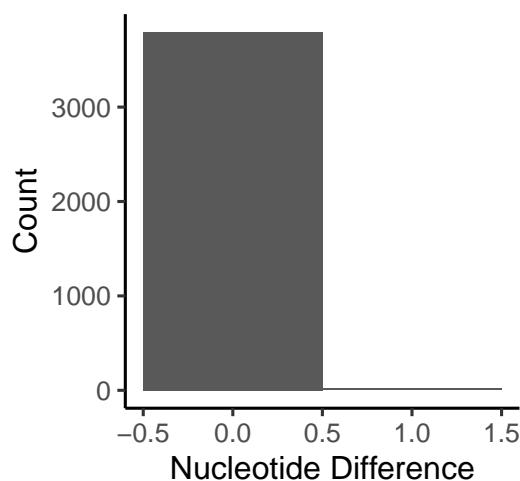
### TRBV19\*ap01

15149 sequences assigned  
15035 (99.2%) exact matches, in which:  
14979 unique CDR3  
13 unique J



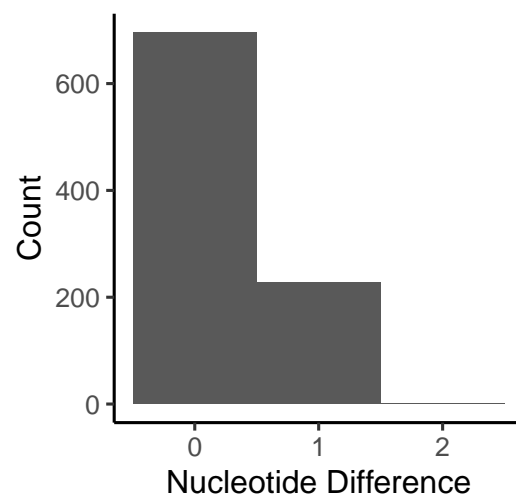
### TRBV28\*ap01

3814 sequences assigned  
3795 (99.5%) exact matches, in which:  
3775 unique CDR3  
13 unique J



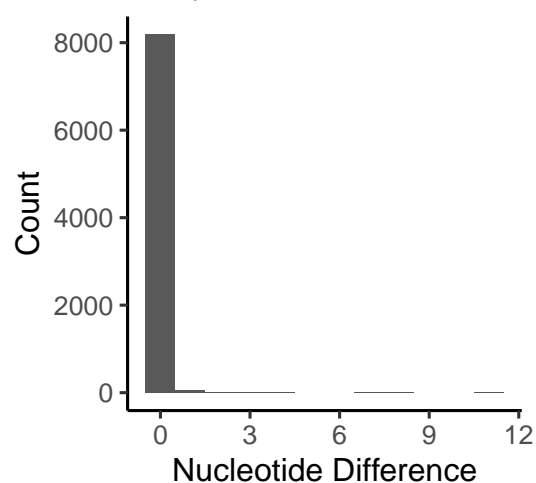
### TRBV30\*ap03

924 sequences assigned  
696 (75.3%) exact matches, in which:  
685 unique CDR3  
13 unique J



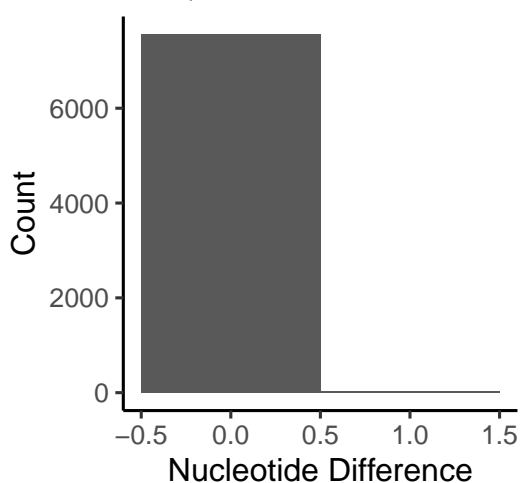
### TRBV9\*ap01

8250 sequences assigned  
8189 (99.3%) exact matches, in which:  
8154 unique CDR3  
13 unique J



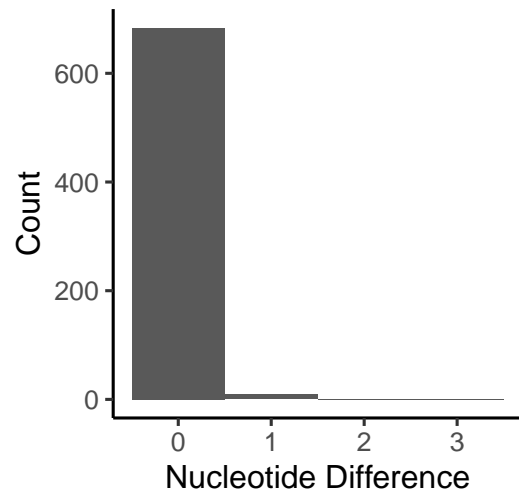
### TRBV11-2\*ap01

7589 sequences assigned  
7557 (99.6%) exact matches, in which:  
7508 unique CDR3  
13 unique J



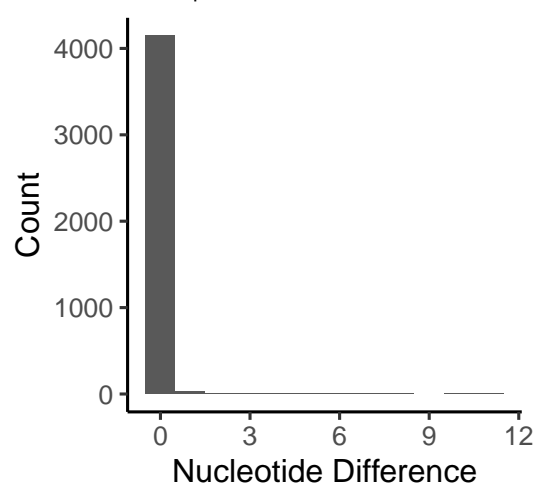
### TRBV12-2\*ap01

695 sequences assigned  
684 (98.4%) exact matches, in which:  
680 unique CDR3  
13 unique J



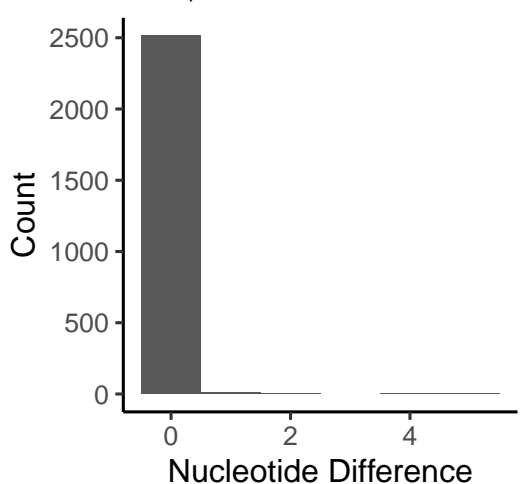
### TRBV21-1\*ap01

4205 sequences assigned  
4147 (98.6%) exact matches, in which:  
4139 unique CDR3  
13 unique J



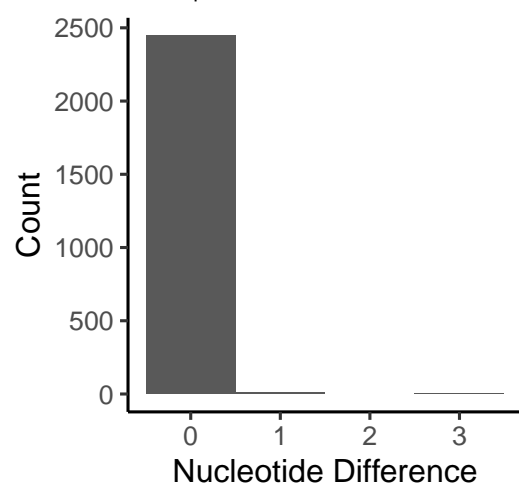
### TRBV11-3\*ap01

2529 sequences assigned  
2514 (99.4%) exact matches, in which:  
2501 unique CDR3  
13 unique J



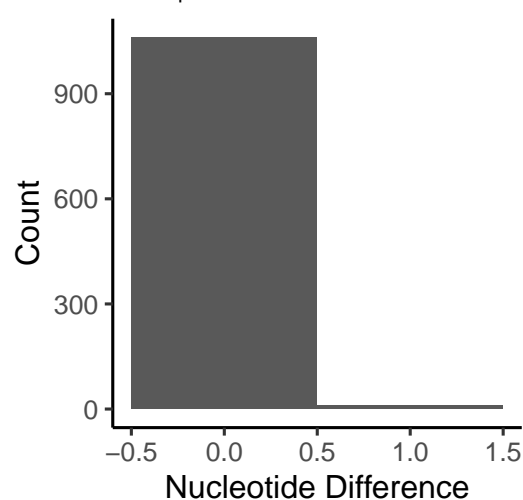
### TRBV12-5\*ap01

2457 sequences assigned  
2446 (99.6%) exact matches, in which:  
2427 unique CDR3  
13 unique J



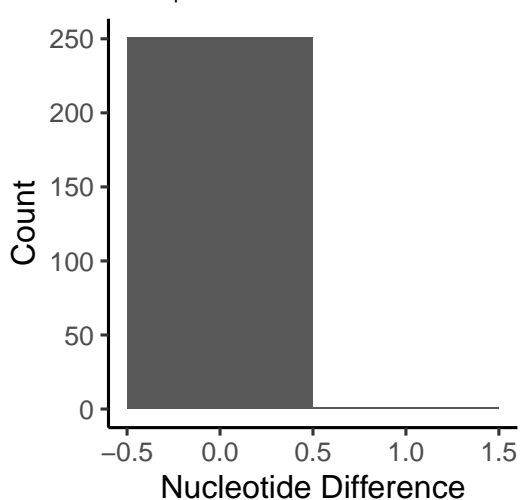
### TRBV11-1\*ap01

1072 sequences assigned  
1061 (99%) exact matches, in which:  
1053 unique CDR3  
12 unique J



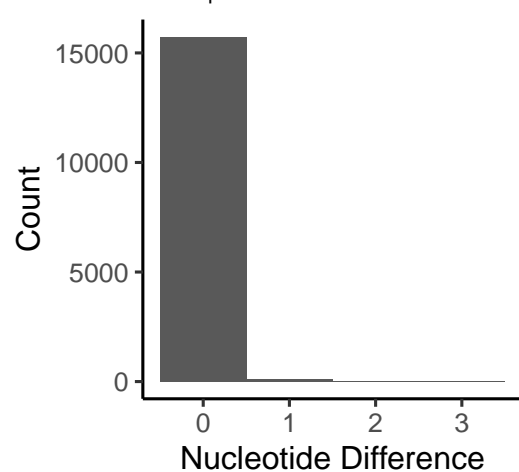
### TRBV12-1\*ap01

252 sequences assigned  
251 (99.6%) exact matches, in which:  
247 unique CDR3  
12 unique J



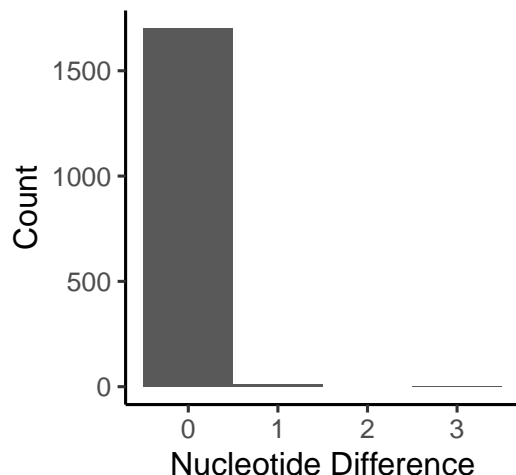
### TRBV12-34\*ap01

15841 sequences assigned  
15737 (99.3%) exact matches, in which:  
15623 unique CDR3  
13 unique J



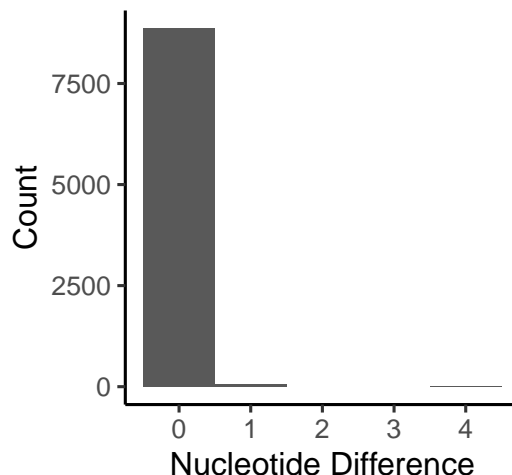
### TRBV23-1\*ap01

1713 sequences assigned  
1701 (99.3%) exact matches, in which:  
1695 unique CDR3  
13 unique J



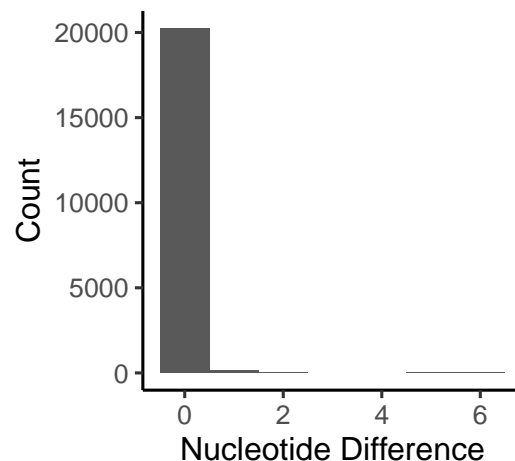
### TRBV4-1\*ap01

8926 sequences assigned  
8863 (99.3%) exact matches, in which:  
8756 unique CDR3  
13 unique J



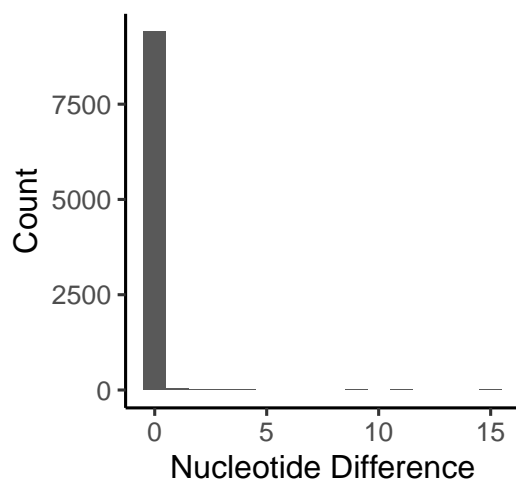
### TRBV5-1\*ap01

20428 sequences assigned  
20256 (99.2%) exact matches, in which:  
20038 unique CDR3  
13 unique J



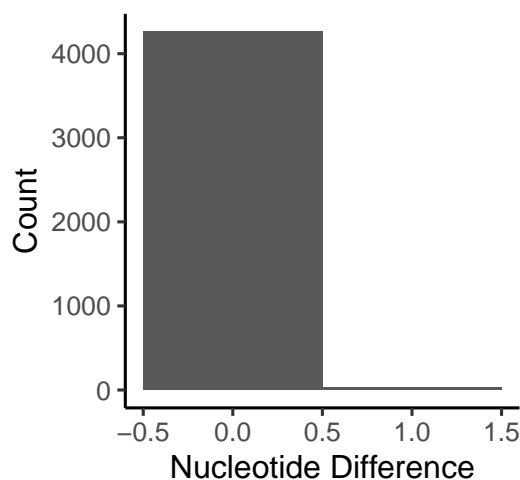
### TRBV3-12\*ap01

9453 sequences assigned  
9401 (99.4%) exact matches, in which:  
9361 unique CDR3  
13 unique J



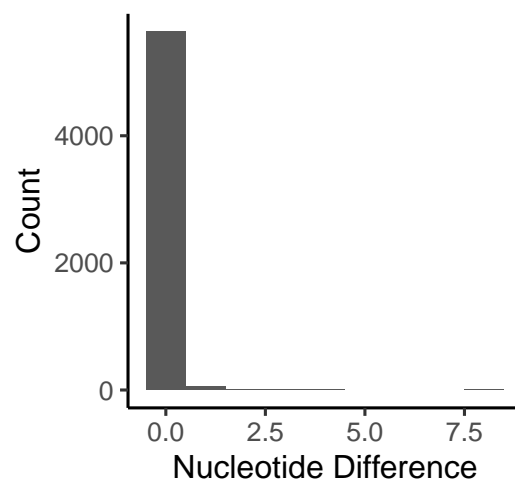
### TRBV4-2\*ap01

4296 sequences assigned  
4261 (99.2%) exact matches, in which:  
4229 unique CDR3  
13 unique J



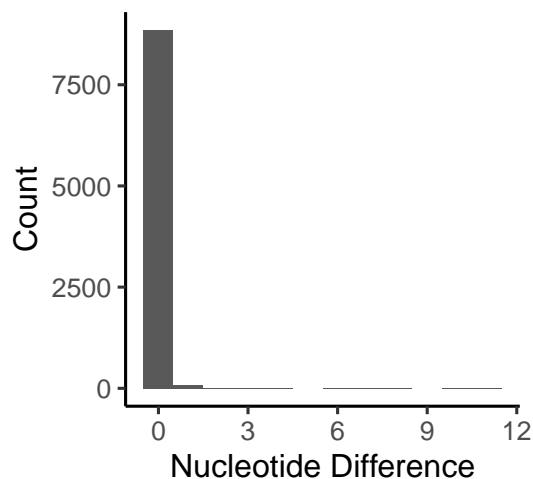
### TRBV25-1\*ap01

5703 sequences assigned  
5637 (98.8%) exact matches, in which:  
5545 unique CDR3  
13 unique J



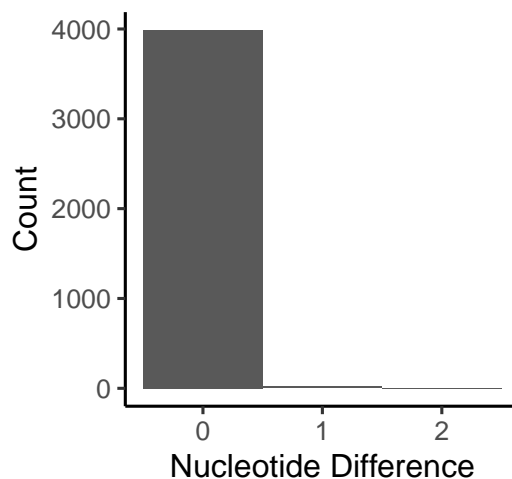
### TRBV24-1\*ap01

8951 sequences assigned  
8852 (98.9%) exact matches, in which:  
8763 unique CDR3  
14 unique J



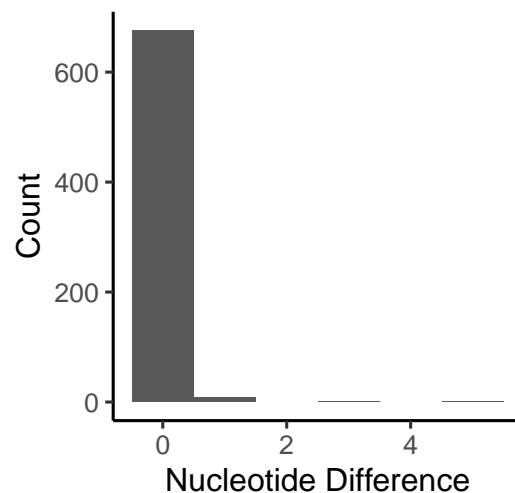
### TRBV4-3\*ap01

4010 sequences assigned  
3988 (99.5%) exact matches, in which:  
3947 unique CDR3  
13 unique J



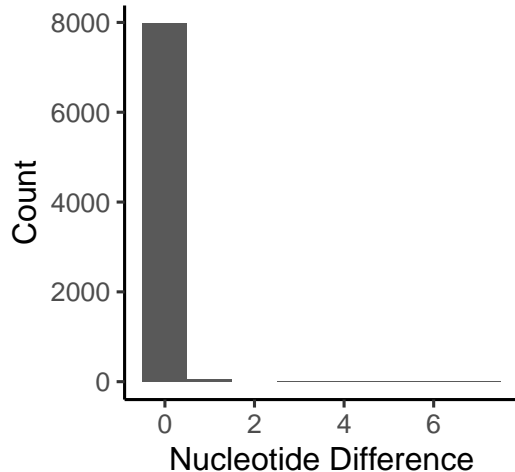
### TRBV5-3\*ap01

686 sequences assigned  
676 (98.5%) exact matches, in which:  
671 unique CDR3  
13 unique J



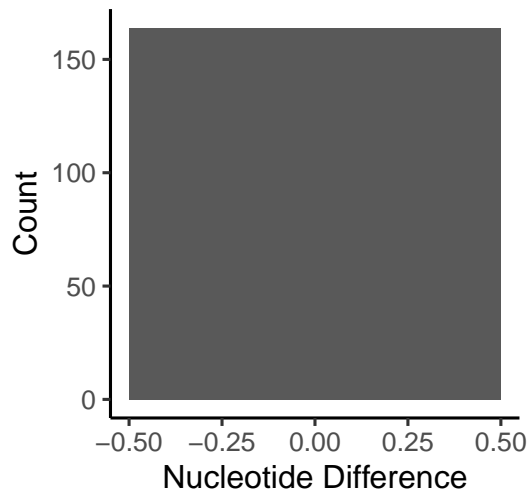
### TRBV5-4\*ap01

8037 sequences assigned  
7978 (99.3%) exact matches, in which:  
7897 unique CDR3  
13 unique J



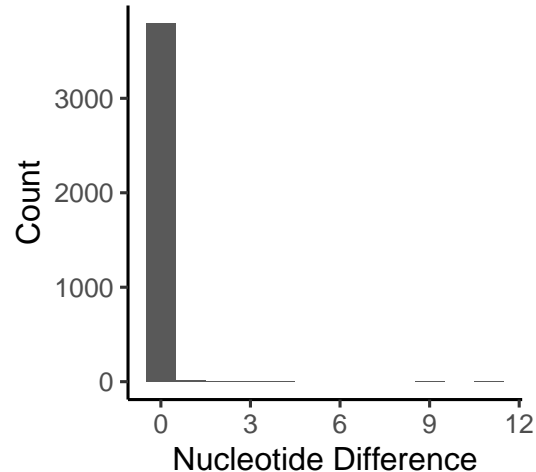
### TRBV5-7\*ap01

164 sequences assigned  
164 (100%) exact matches, in which:  
161 unique CDR3  
13 unique J



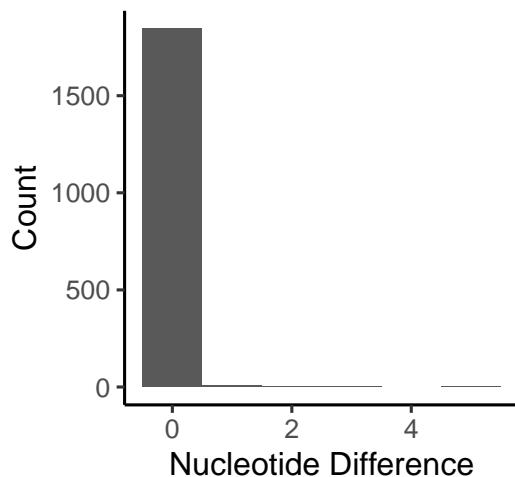
### TRBV6-4\*ap01

3828 sequences assigned  
3793 (99.1%) exact matches, in which:  
3773 unique CDR3  
13 unique J



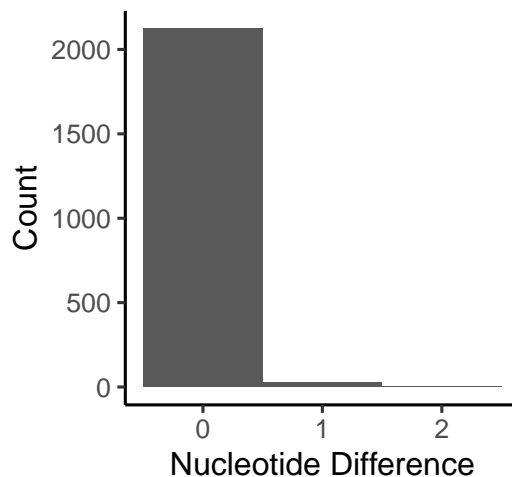
### TRBV5-5\*ap01

1854 sequences assigned  
1845 (99.5%) exact matches, in which:  
1842 unique CDR3  
13 unique J



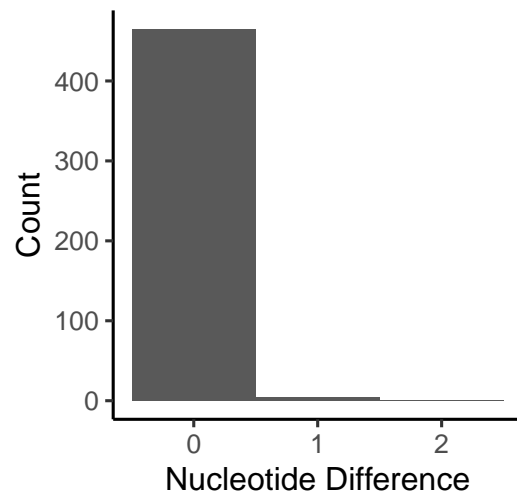
### TRBV5-8\*ap01

2151 sequences assigned  
2123 (98.7%) exact matches, in which:  
2108 unique CDR3  
13 unique J



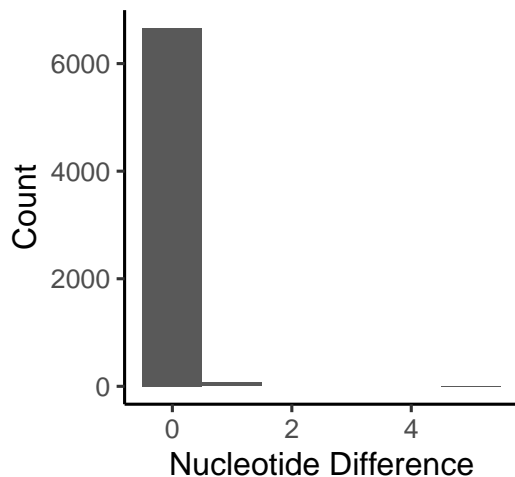
### TRBV6-7\*ap01

471 sequences assigned  
465 (98.7%) exact matches, in which:  
455 unique CDR3  
13 unique J



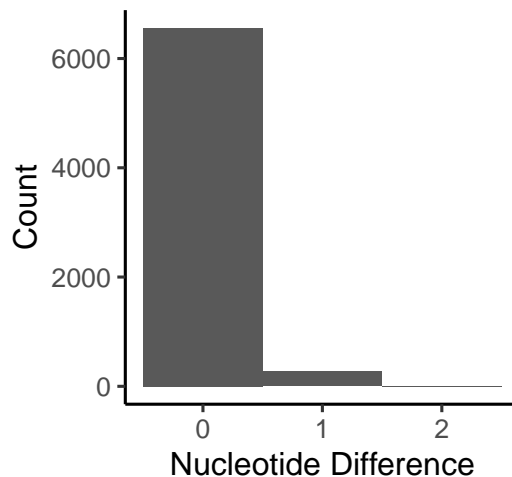
### TRBV5-6\*ap01

6737 sequences assigned  
6661 (98.9%) exact matches, in which:  
6542 unique CDR3  
13 unique J



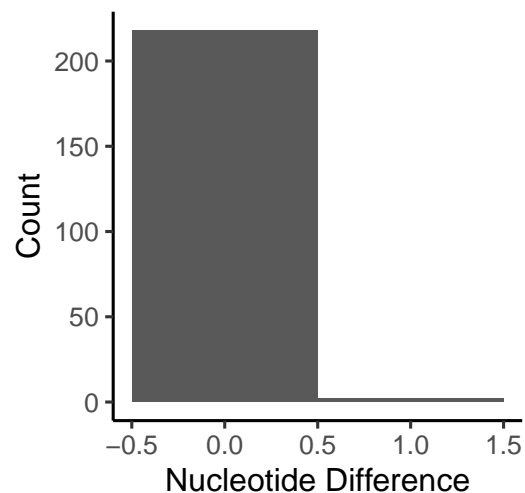
### TRBV6-1\*ap01

6835 sequences assigned  
6558 (95.9%) exact matches, in which:  
6460 unique CDR3  
13 unique J



### TRBV6-8\*ap01

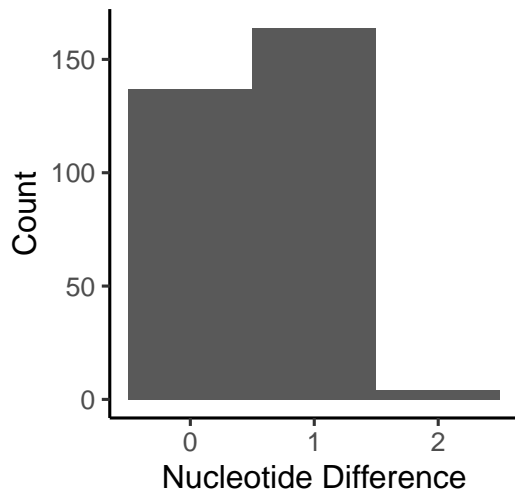
220 sequences assigned  
218 (99.1%) exact matches, in which:  
215 unique CDR3  
13 unique J





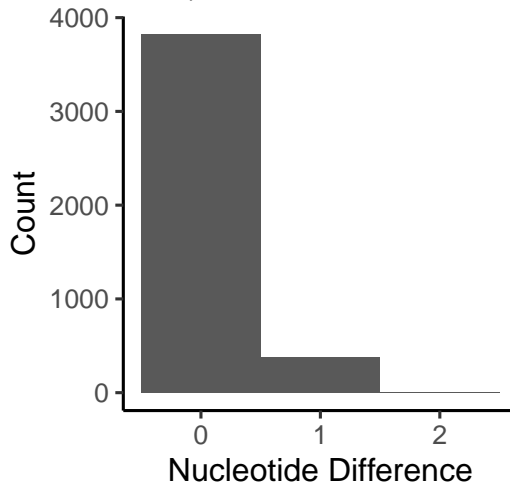
### TRBV6-9\*ap01

305 sequences assigned  
137 (44.9%) exact matches, in which:  
132 unique CDR3  
12 unique J



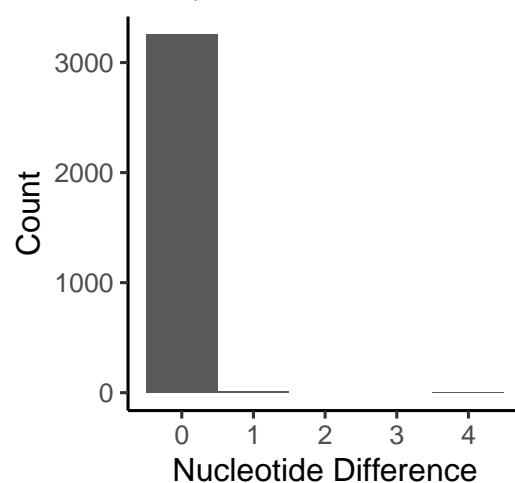
### TRBV6-56\*ap02

4206 sequences assigned  
3821 (90.8%) exact matches, in which:  
3751 unique CDR3  
13 unique J



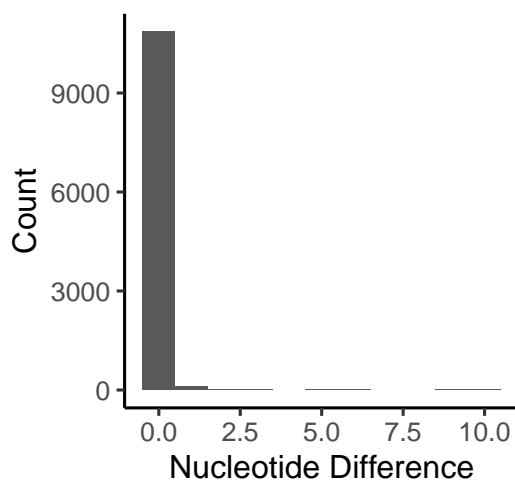
### TRBV7-3\*ap01

3276 sequences assigned  
3256 (99.4%) exact matches, in which:  
3245 unique CDR3  
13 unique J



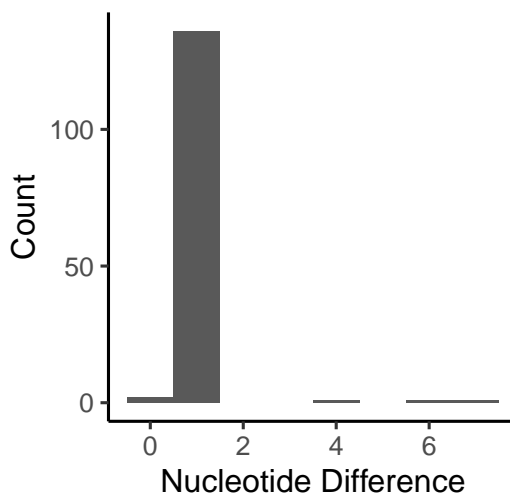
### TRBV6-23\*ap01

10978 sequences assigned  
10857 (98.9%) exact matches, in which:  
10659 unique CDR3  
13 unique J



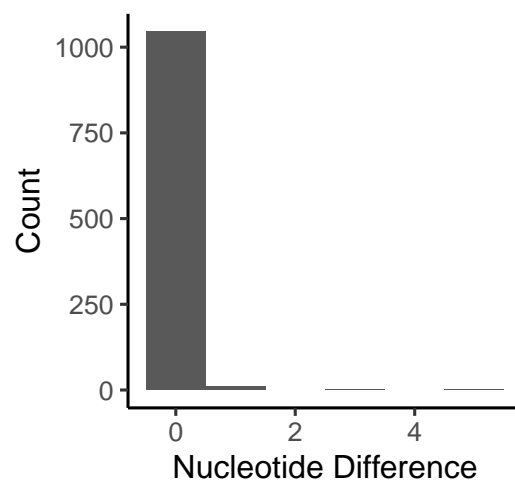
### TRBV7-1\*ap01\_T296C

141 sequences assigned  
2 (1.4%) exact matches, in which:  
2 unique CDR3  
1 unique J



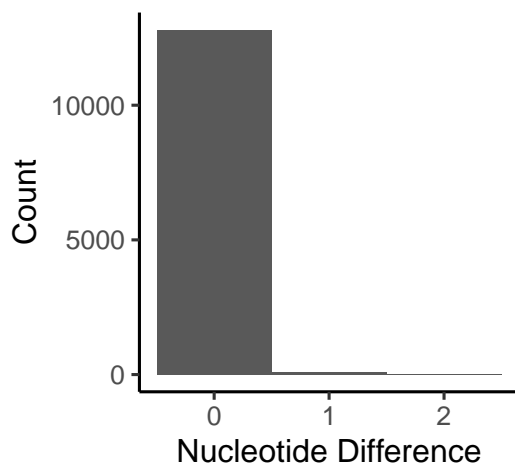
### TRBV7-3\*ap03

1057 sequences assigned  
1045 (98.9%) exact matches, in which:  
1038 unique CDR3  
13 unique J



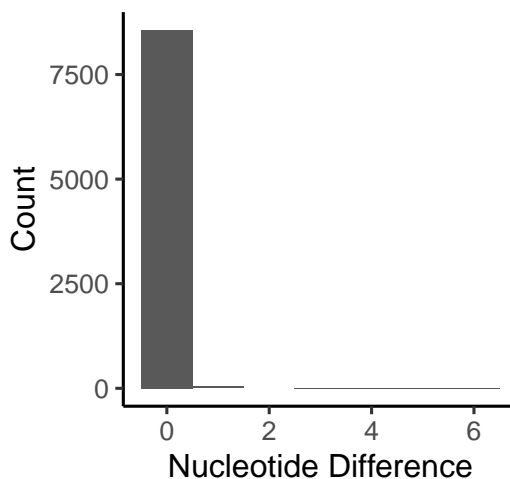
### TRBV6-56\*ap01

12908 sequences assigned  
12800 (99.2%) exact matches, in which:  
12554 unique CDR3  
13 unique J



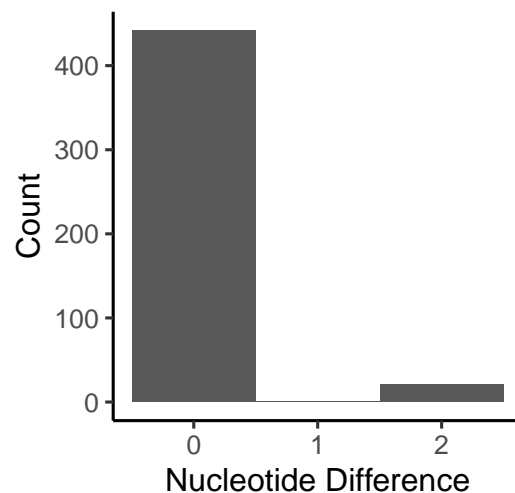
### TRBV7-2\*ap01

8608 sequences assigned  
8563 (99.5%) exact matches, in which:  
8505 unique CDR3  
13 unique J



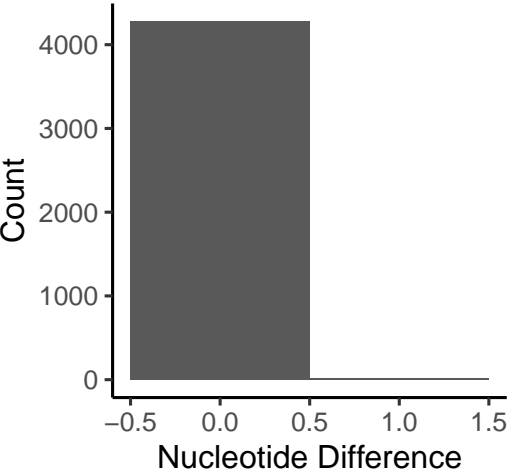
### TRBV7-4\*ap01

464 sequences assigned  
442 (95.3%) exact matches, in which:  
439 unique CDR3  
13 unique J



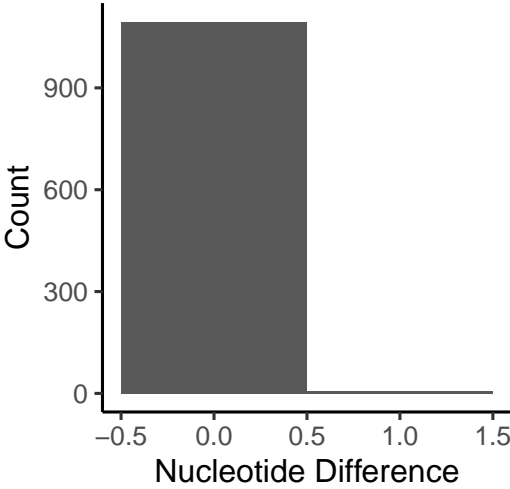
TRBV7-6\*ap01

4297 sequences assigned  
4278 (99.6%) exact matches, in which:  
4241 unique CDR3  
13 unique J



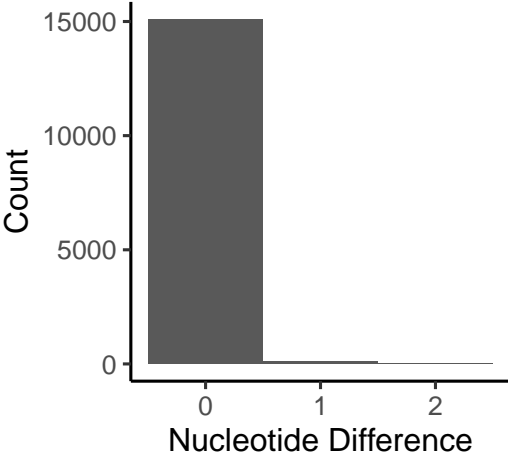
TRBV7-8\*ap01

1103 sequences assigned  
1095 (99.3%) exact matches, in which:  
1089 unique CDR3  
13 unique J



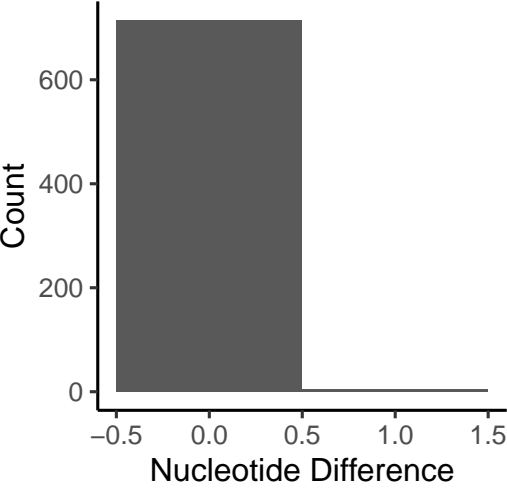
TRBV7-9\*ap01

15201 sequences assigned  
15103 (99.4%) exact matches, in which:  
15002 unique CDR3  
13 unique J



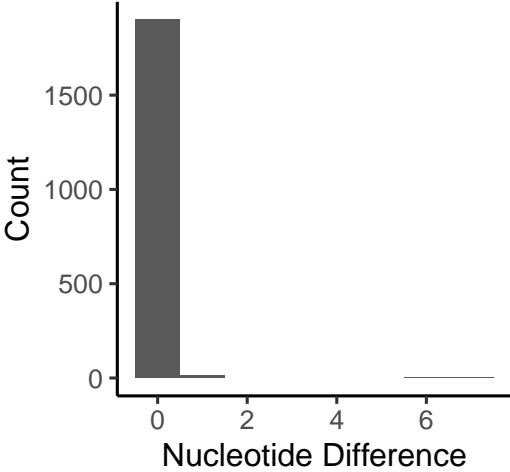
TRBV7-7\*ap01

719 sequences assigned  
715 (99.4%) exact matches, in which:  
710 unique CDR3  
13 unique J



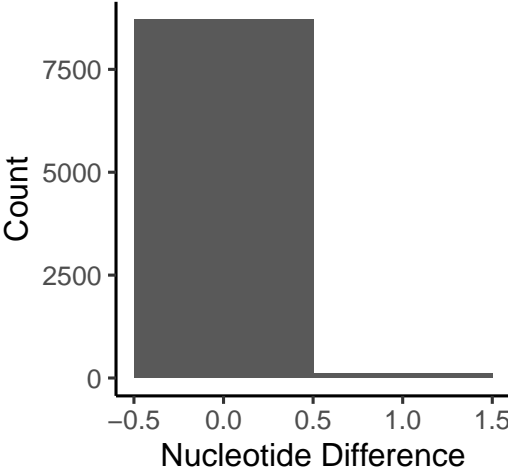
TRBV7-8\*ap02

1913 sequences assigned  
1900 (99.3%) exact matches, in which:  
1885 unique CDR3  
13 unique J



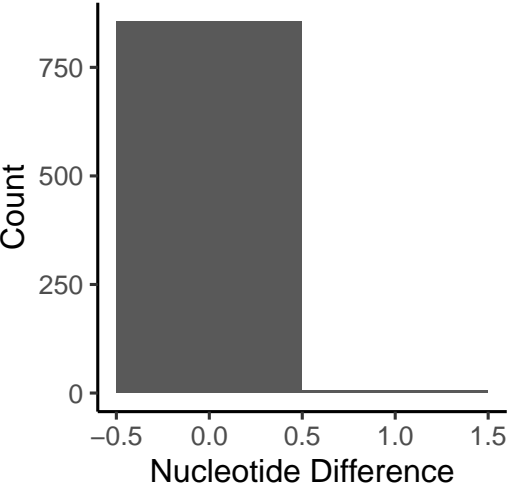
TRBV29-1\*ap01

8813 sequences assigned  
8706 (98.8%) exact matches, in which:  
8526 unique CDR3  
13 unique J



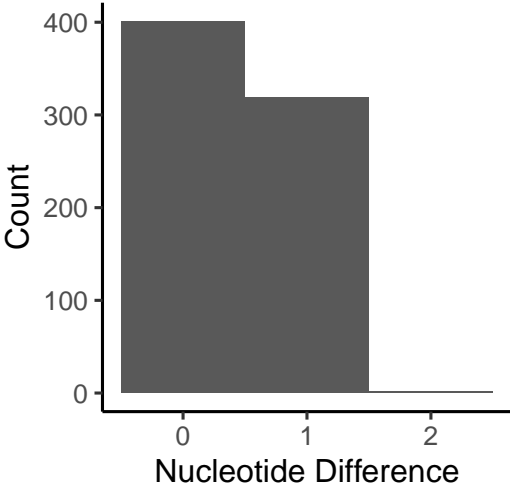
TRBV7-7\*ap01\_C315T

861 sequences assigned  
856 (99.4%) exact matches, in which:  
852 unique CDR3  
13 unique J



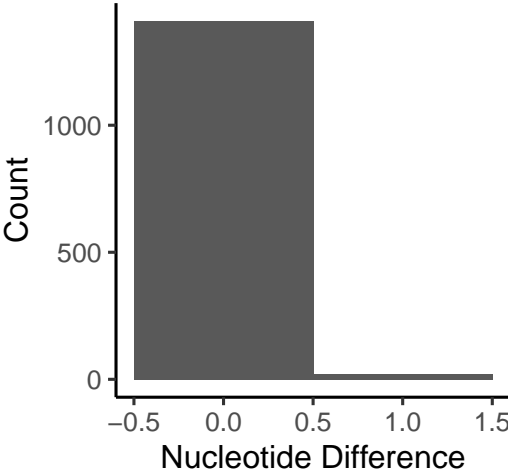
TRBV7-8\*ap03

722 sequences assigned  
401 (55.5%) exact matches, in which:  
400 unique CDR3  
13 unique J

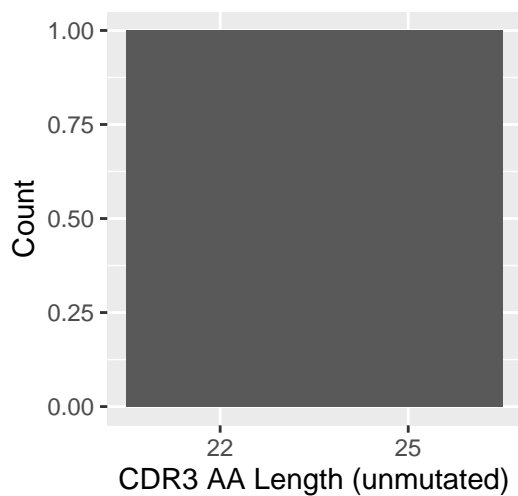


TRBV29-1\*ap02

1432 sequences assigned  
1410 (98.5%) exact matches, in which:  
1383 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T

