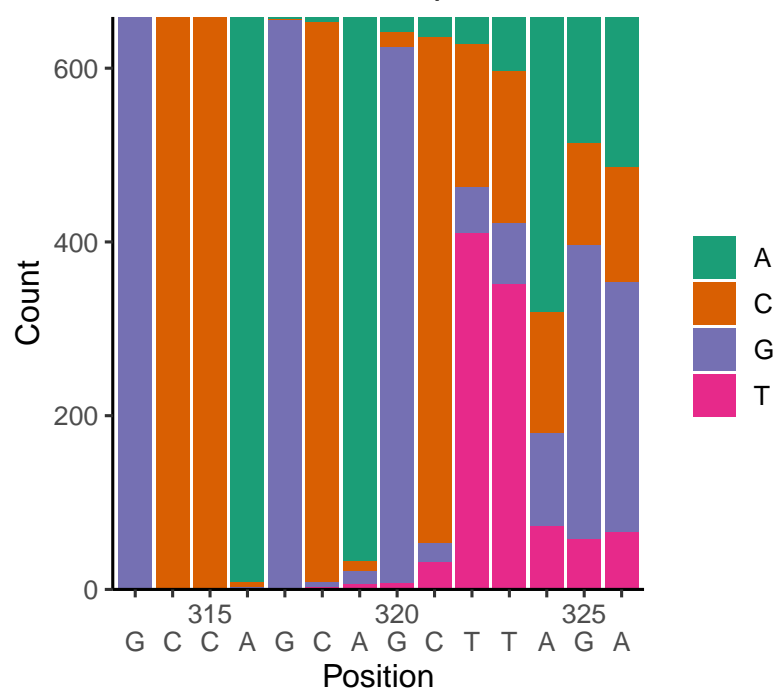
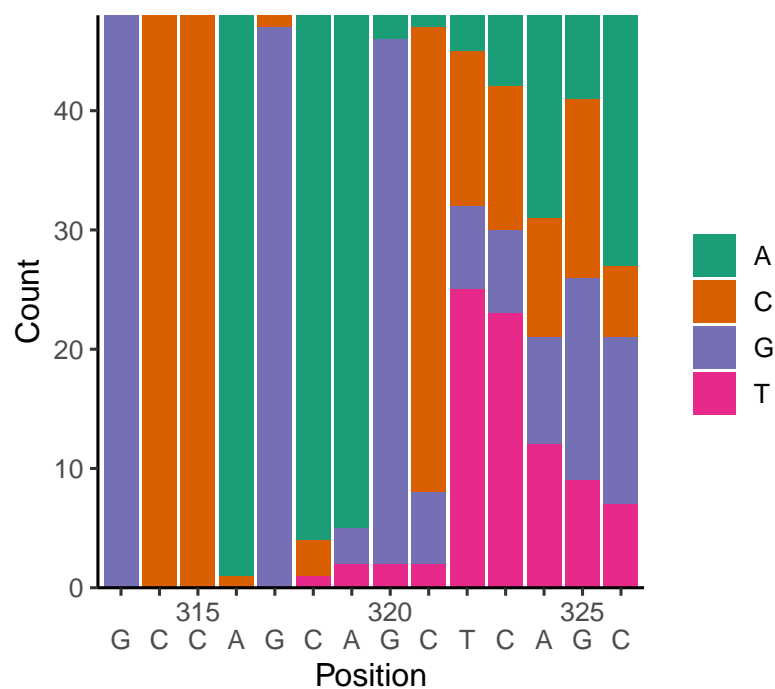


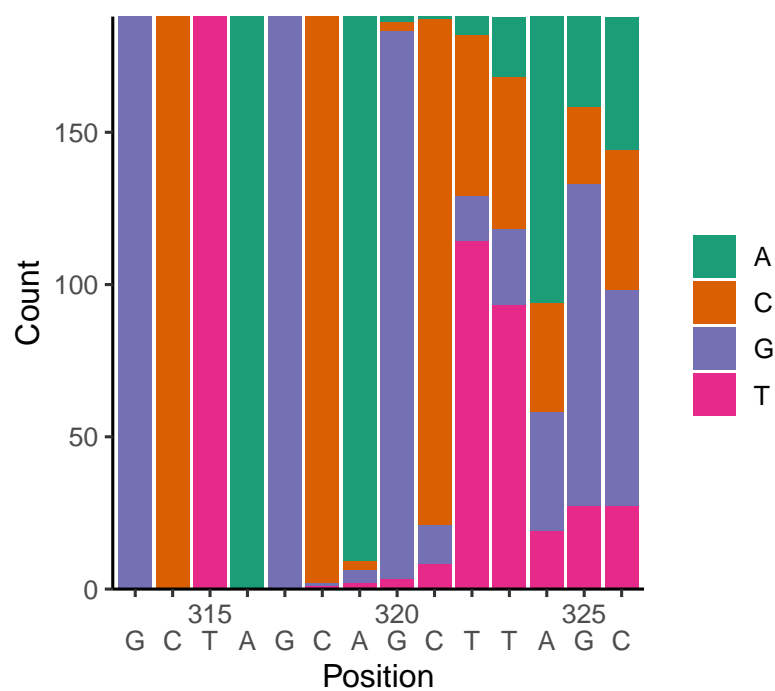
Gene TRBV11-3\*ap01\_T312C



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



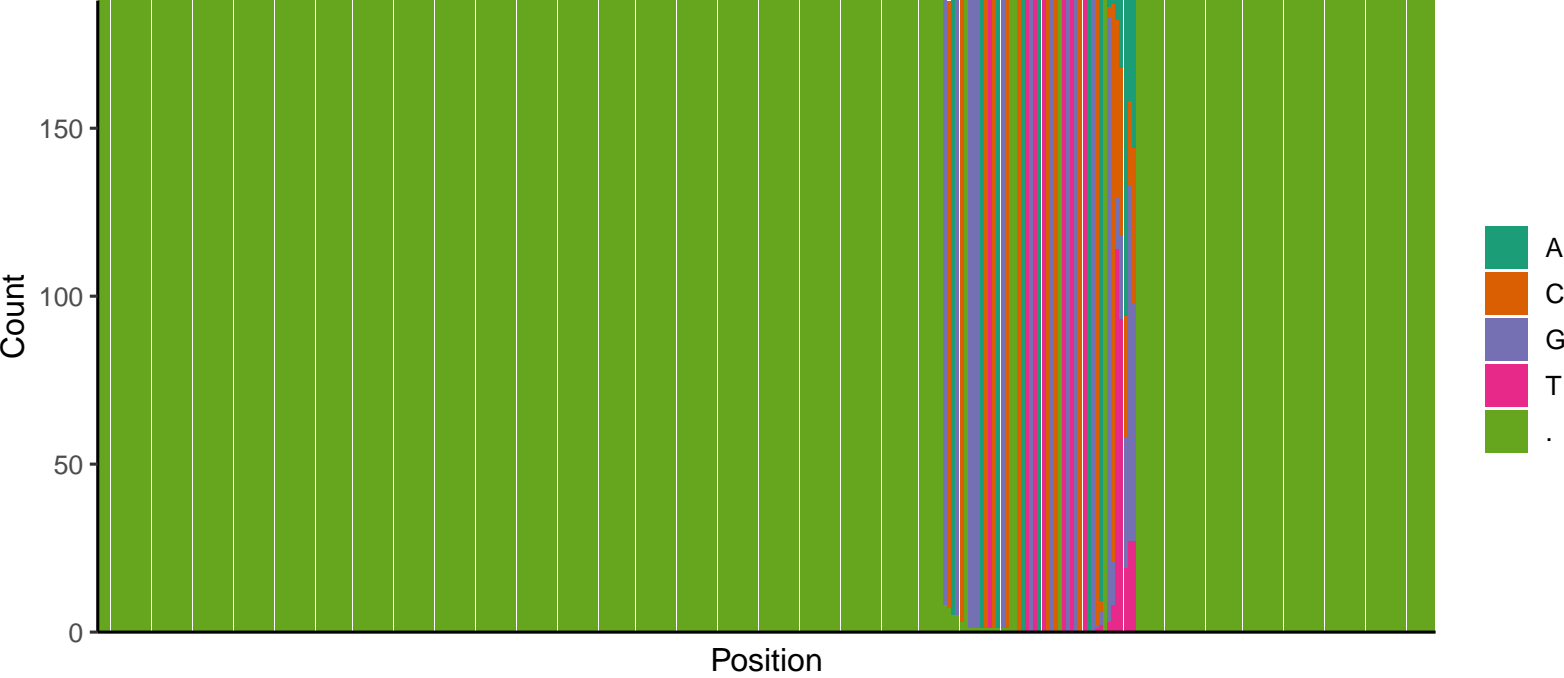
Gene TRBV11-3\*ap01\_T312C



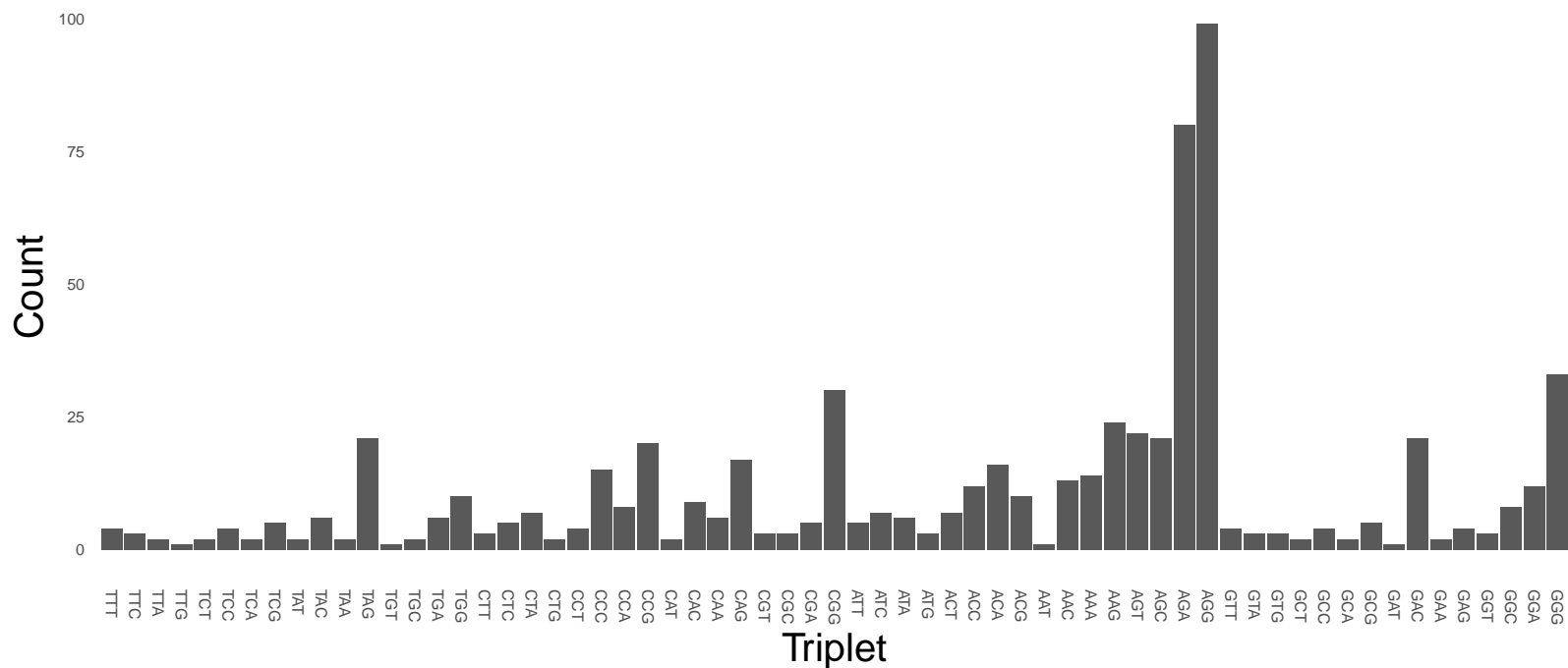
Gene TRBV7-1\*ap01\_G291C\_T296C



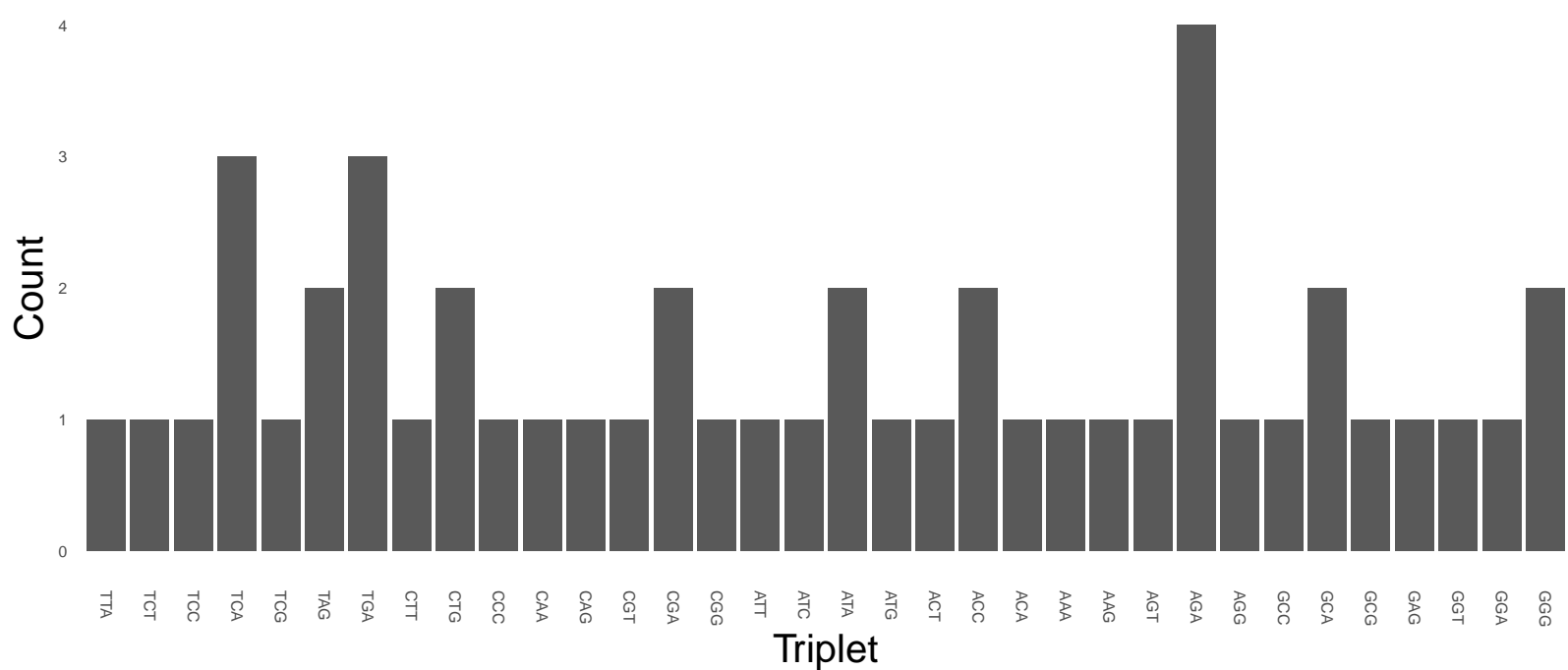
Gene TRBV7-7\*ap01\_C315T



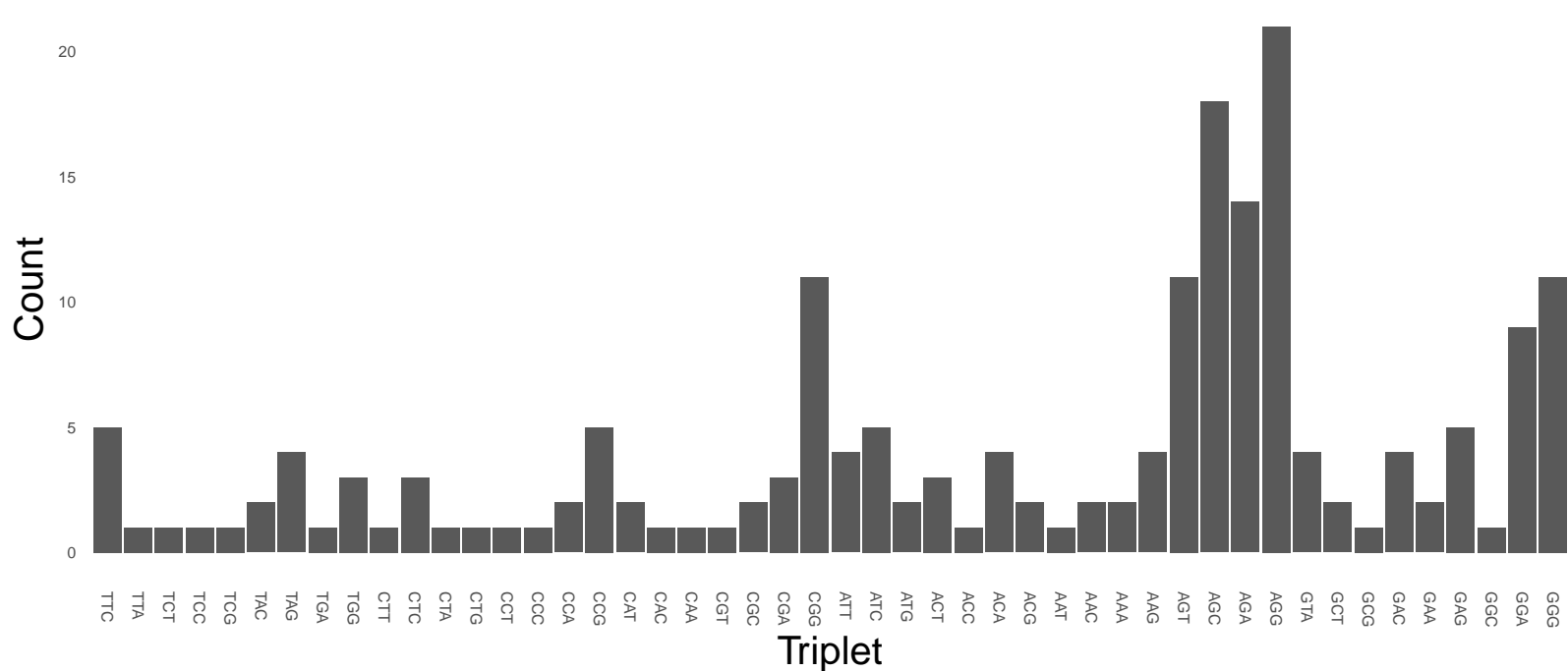
TRBV11-3\*ap01\_T312C- Final 3 nucleotides as a triplet



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

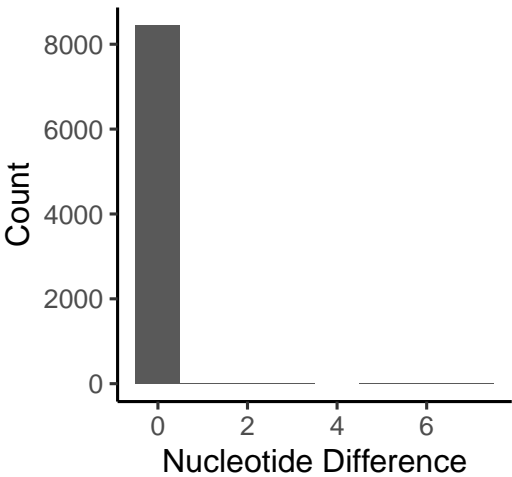


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



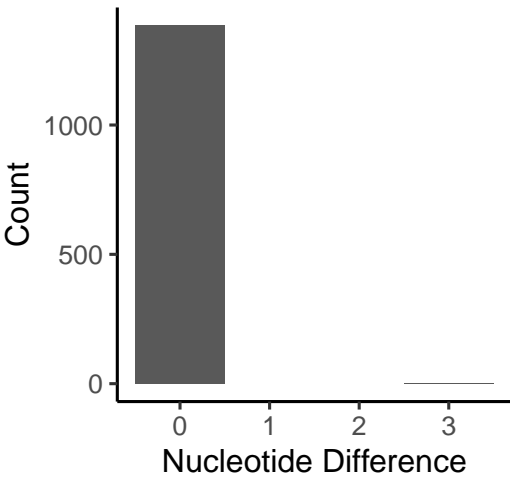
TRBV20-1\*ap01

8483 sequences assigned  
8444 (99.5%) exact matches, in which:  
8440 unique CDR3  
12 unique J



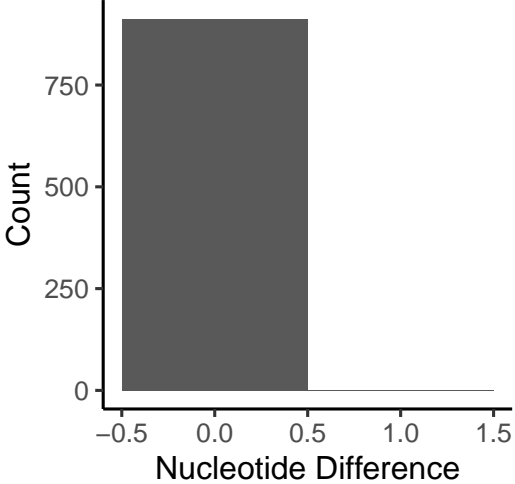
TRBV10-3\*ap01

1386 sequences assigned  
1385 (99.9%) exact matches, in which:  
1384 unique CDR3  
12 unique J



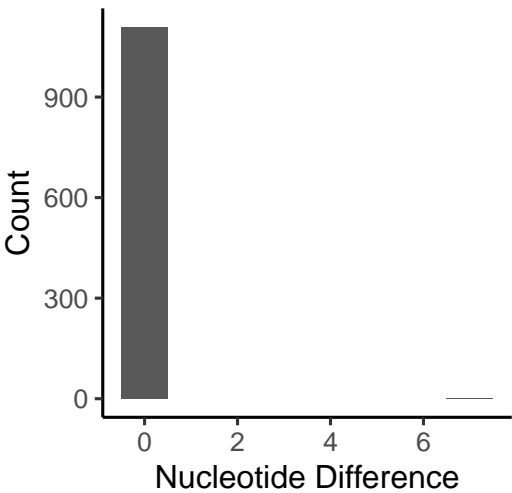
TRBV14\*ap01

914 sequences assigned  
913 (99.9%) exact matches, in which:  
913 unique CDR3  
12 unique J



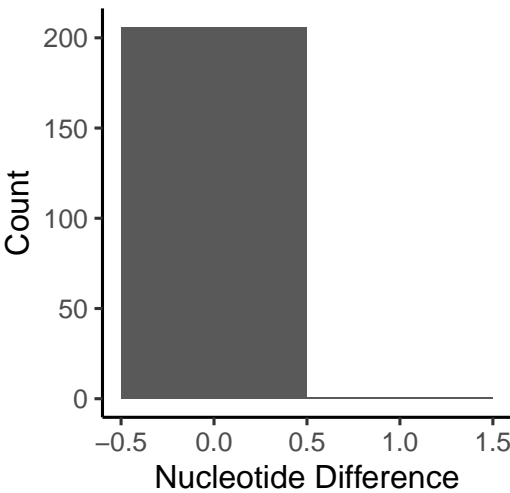
TRBV10-1\*ap01

1110 sequences assigned  
1109 (99.9%) exact matches, in which:  
1109 unique CDR3  
12 unique J



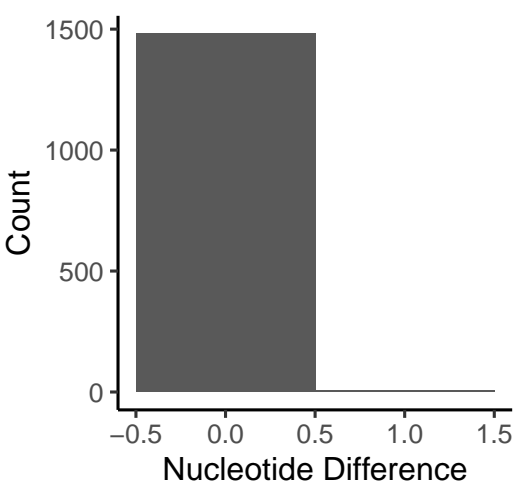
TRBV1\*ap01

207 sequences assigned  
206 (99.5%) exact matches, in which:  
206 unique CDR3  
12 unique J



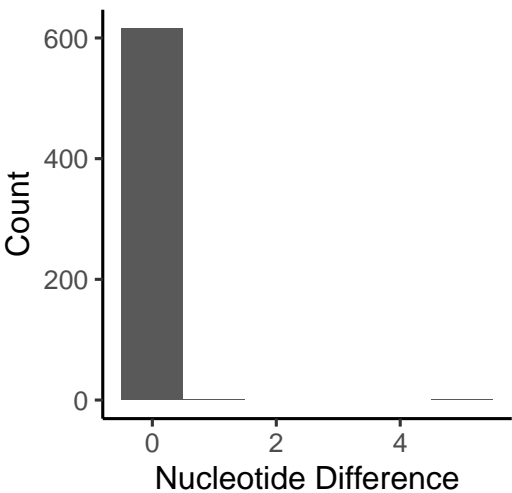
TRBV15\*ap02

1486 sequences assigned  
1481 (99.7%) exact matches, in which:  
1479 unique CDR3  
12 unique J



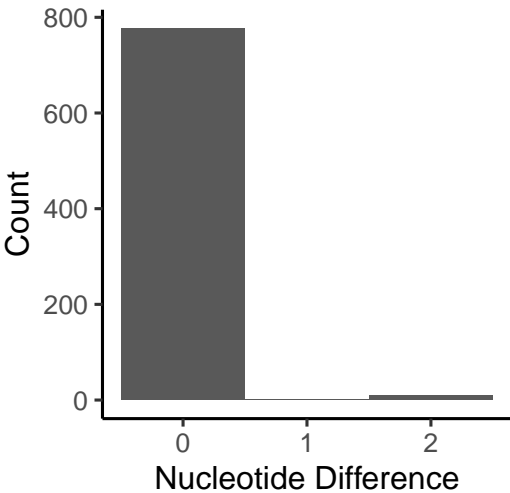
TRBV10-2\*ap01

618 sequences assigned  
616 (99.7%) exact matches, in which:  
616 unique CDR3  
12 unique J



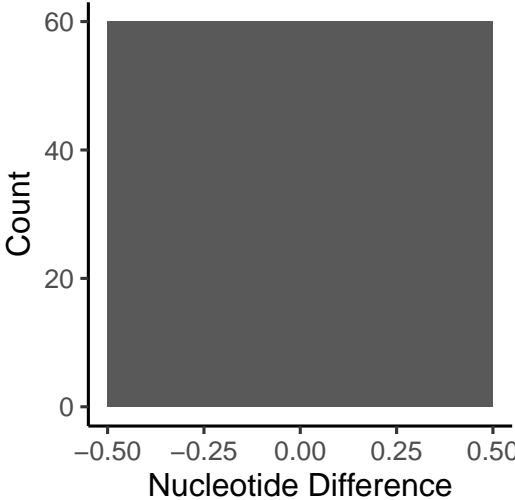
TRBV13\*ap01

789 sequences assigned  
777 (98.5%) exact matches, in which:  
775 unique CDR3  
12 unique J



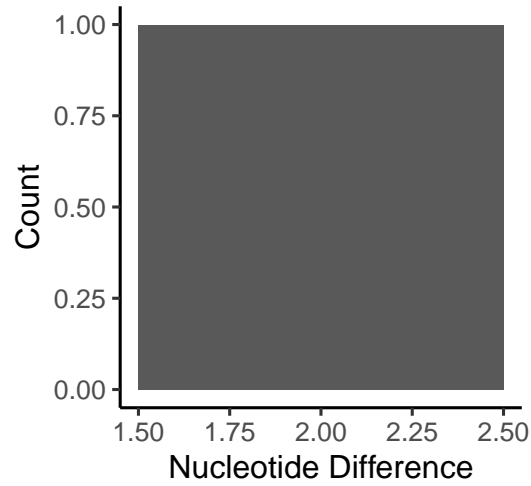
TRBV16\*ap01

60 sequences assigned  
60 (100%) exact matches, in which:  
60 unique CDR3  
12 unique J



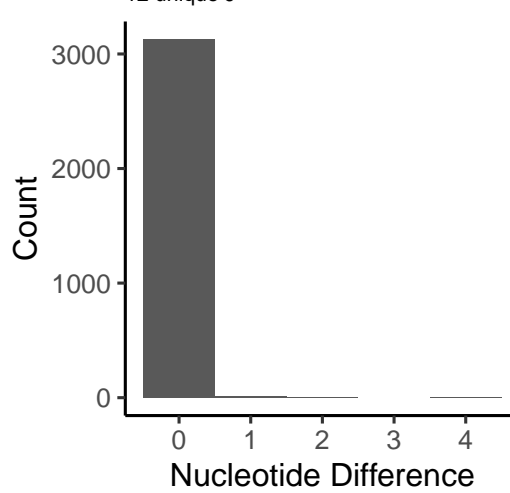
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



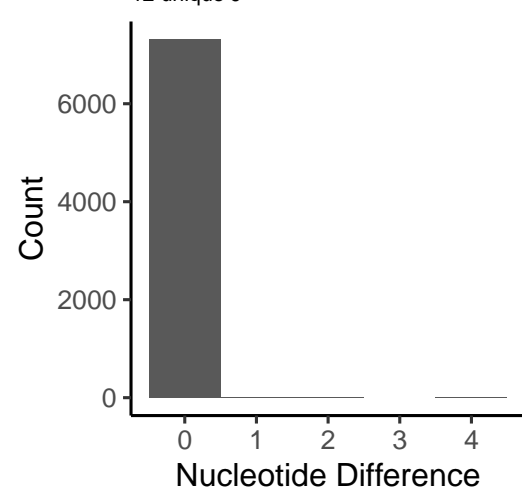
### TRBV2\*ap01

3140 sequences assigned  
3127 (99.6%) exact matches, in which:  
3125 unique CDR3  
12 unique J



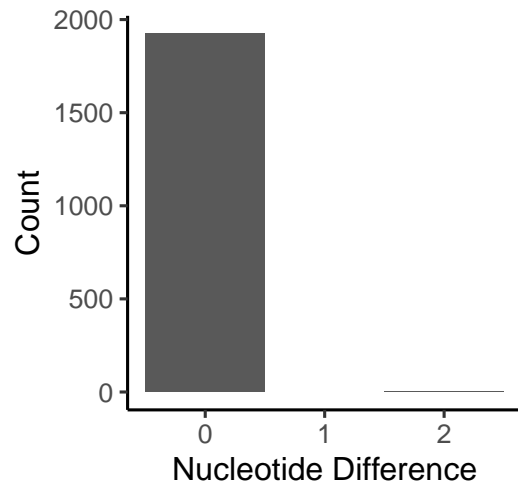
### TRBV28\*ap01

7327 sequences assigned  
7313 (99.8%) exact matches, in which:  
7312 unique CDR3  
12 unique J



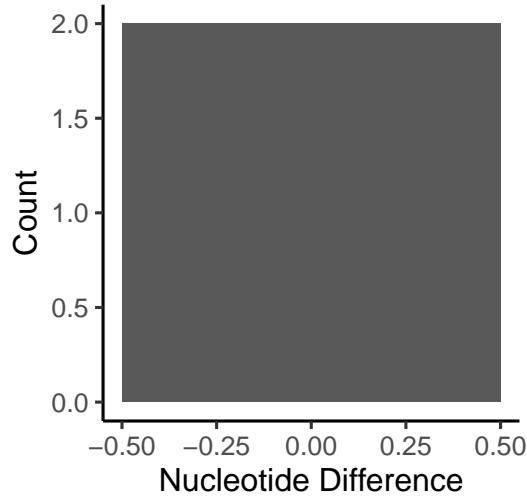
### TRBV18\*ap01

1925 sequences assigned  
1924 (99.9%) exact matches, in which:  
1924 unique CDR3  
12 unique J



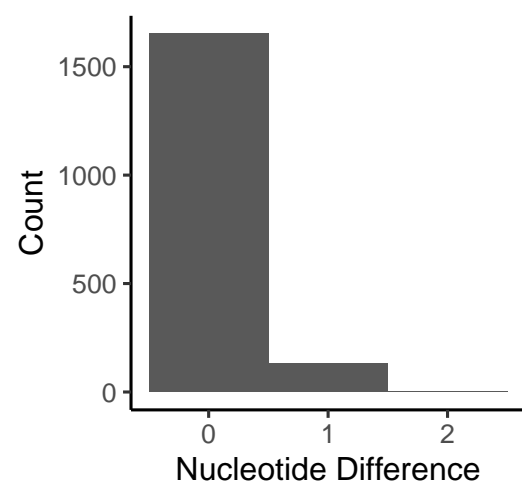
### TRBV26\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



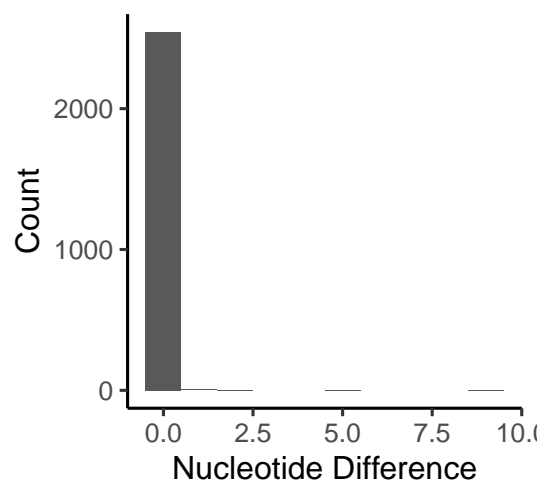
### TRBV30\*ap01

1783 sequences assigned  
1652 (92.7%) exact matches, in which:  
1649 unique CDR3  
12 unique J



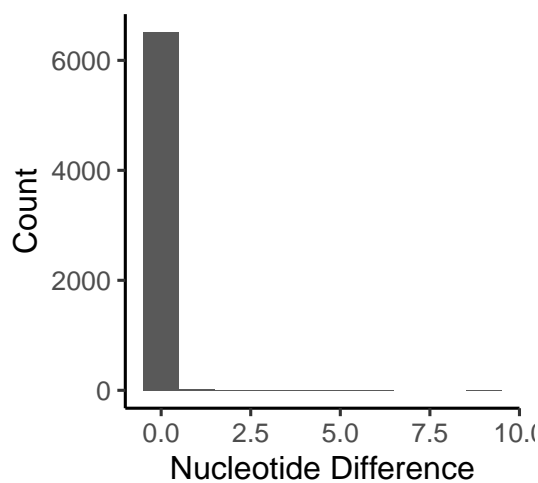
### TRBV19\*ap01

2555 sequences assigned  
2544 (99.6%) exact matches, in which:  
2544 unique CDR3  
12 unique J



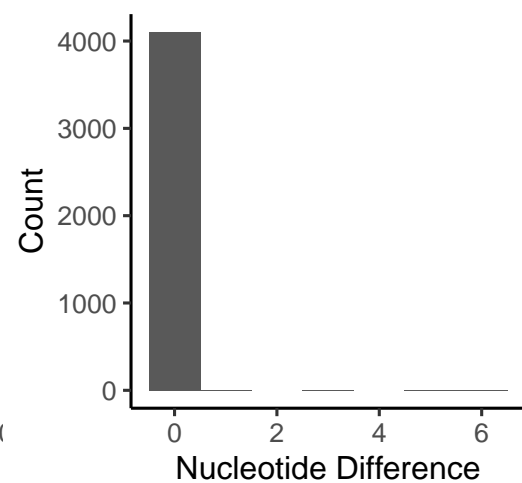
### TRBV27\*ap01

6559 sequences assigned  
6515 (99.3%) exact matches, in which:  
6511 unique CDR3  
12 unique J



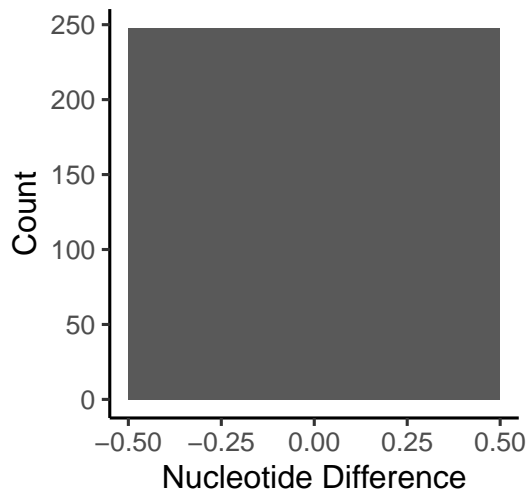
### TRBV9\*ap01

4111 sequences assigned  
4103 (99.8%) exact matches, in which:  
4096 unique CDR3  
12 unique J



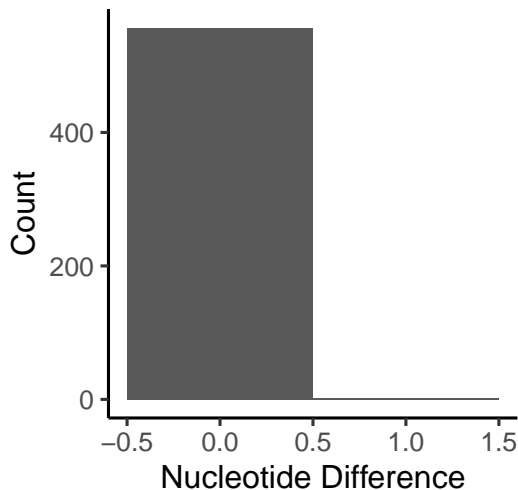
### TRBV11-1\*ap01

248 sequences assigned  
248 (100%) exact matches, in which:  
248 unique CDR3  
12 unique J



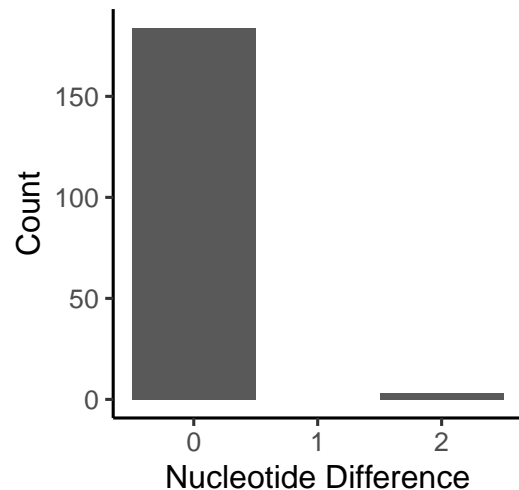
### TRBV11-3\*ap01

559 sequences assigned  
557 (99.6%) exact matches, in which:  
557 unique CDR3  
12 unique J



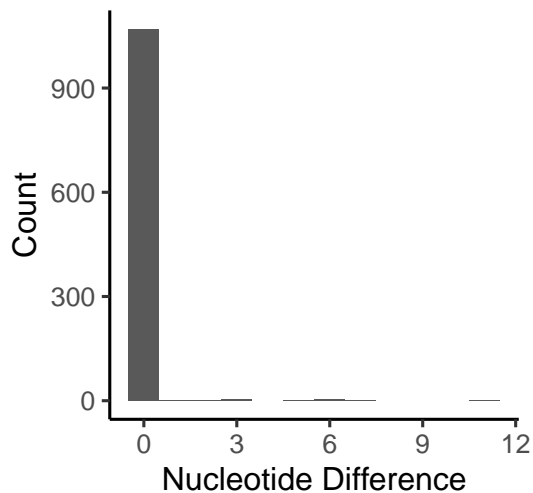
### TRBV12-2\*ap01

187 sequences assigned  
184 (98.4%) exact matches, in which:  
184 unique CDR3  
12 unique J



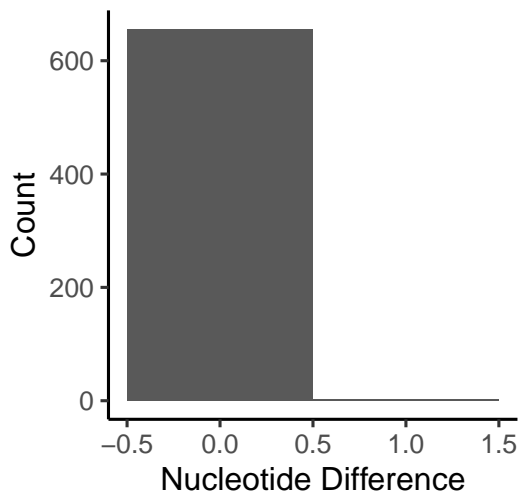
### TRBV21-1\*ap01

1082 sequences assigned  
1070 (98.9%) exact matches, in which:  
1070 unique CDR3  
12 unique J



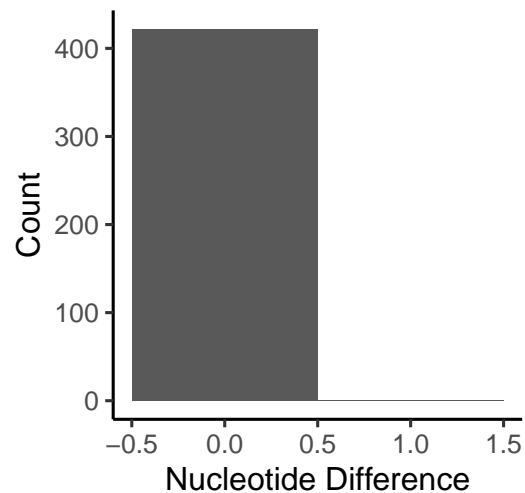
### TRBV11-3\*ap01\_T312C

659 sequences assigned  
656 (99.5%) exact matches, in which:  
656 unique CDR3  
12 unique J



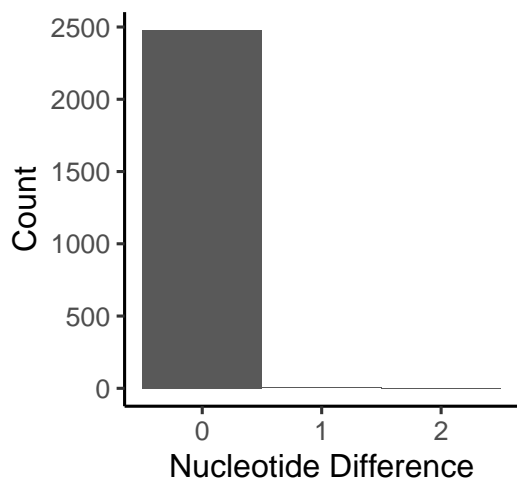
### TRBV12-5\*ap01

423 sequences assigned  
422 (99.8%) exact matches, in which:  
422 unique CDR3  
12 unique J



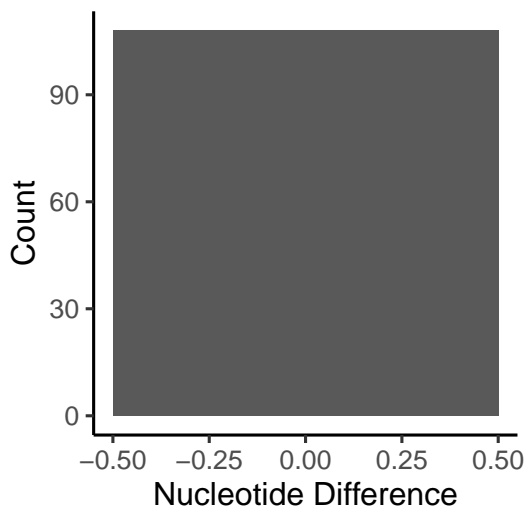
### TRBV11-2\*ap01

2486 sequences assigned  
2479 (99.7%) exact matches, in which:  
2479 unique CDR3  
12 unique J



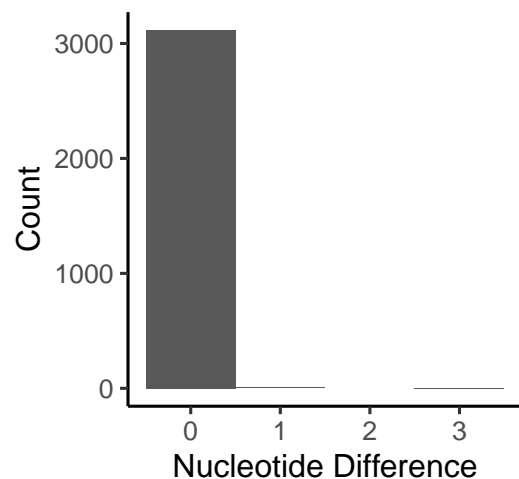
### TRBV12-1\*ap01

108 sequences assigned  
108 (100%) exact matches, in which:  
108 unique CDR3  
12 unique J



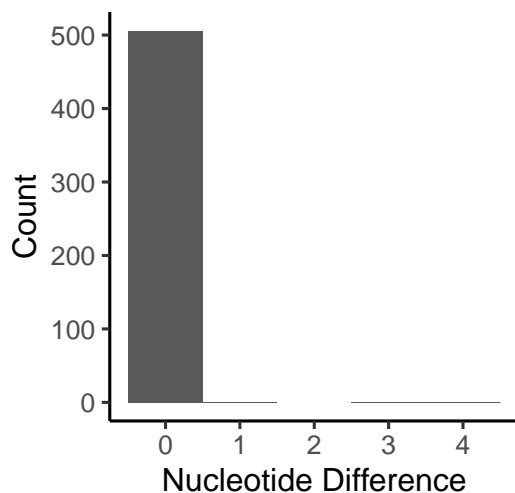
### TRBV12-34\*ap01

3125 sequences assigned  
3117 (99.7%) exact matches, in which:  
3117 unique CDR3  
12 unique J



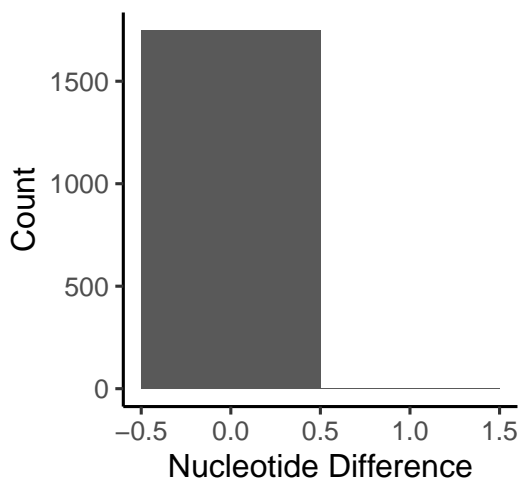
### TRBV23-1\*ap01

509 sequences assigned  
506 (99.4%) exact matches, in which:  
506 unique CDR3  
12 unique J



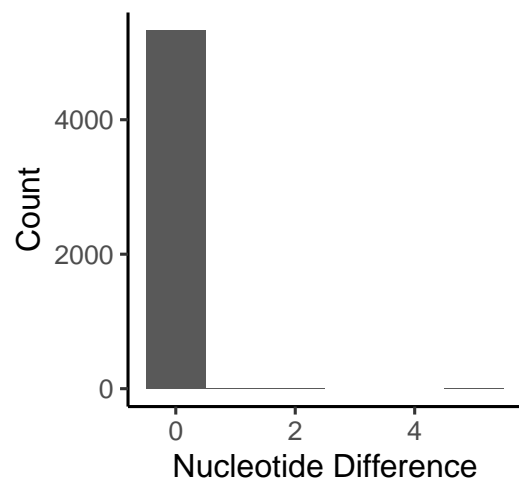
### TRBV4-1\*ap01

1752 sequences assigned  
1748 (99.8%) exact matches, in which:  
1747 unique CDR3  
12 unique J



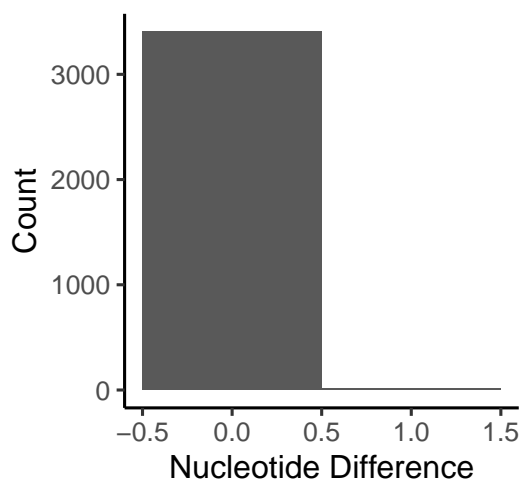
### TRBV5-1\*ap01

5344 sequences assigned  
5328 (99.7%) exact matches, in which:  
5322 unique CDR3  
12 unique J



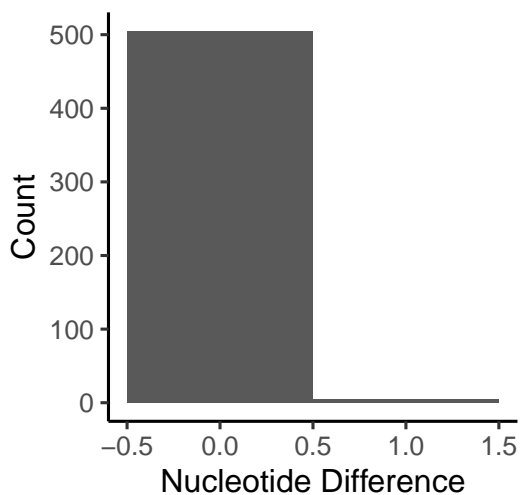
### TRBV3-12\*ap01

3416 sequences assigned  
3405 (99.7%) exact matches, in which:  
3403 unique CDR3  
13 unique J



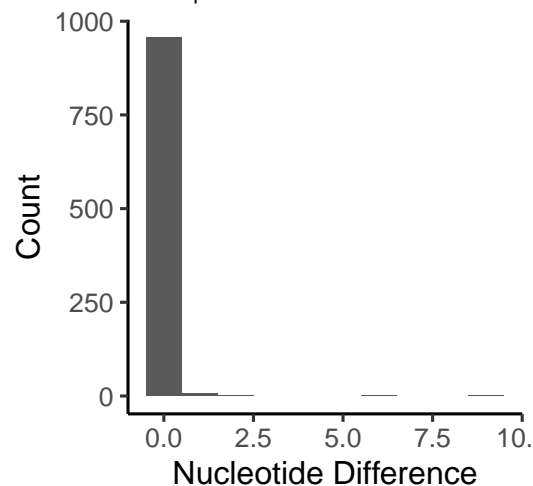
### TRBV4-2\*ap01

510 sequences assigned  
505 (99%) exact matches, in which:  
504 unique CDR3  
12 unique J



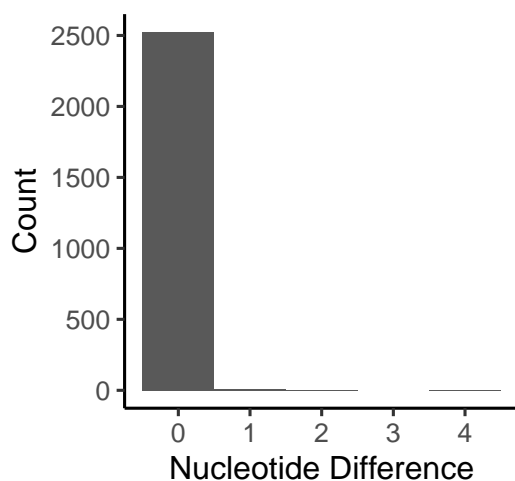
### TRBV25-1\*ap01

966 sequences assigned  
956 (99%) exact matches, in which:  
956 unique CDR3  
12 unique J



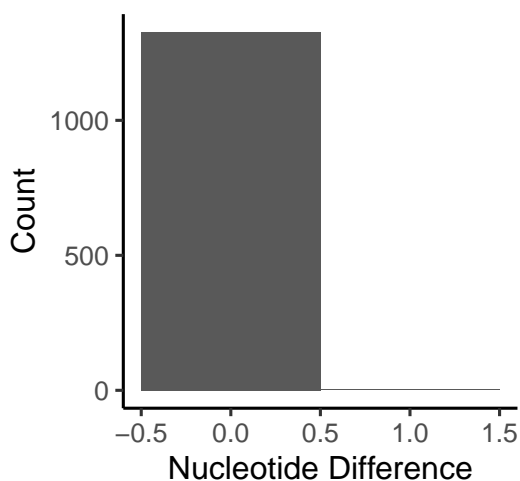
### TRBV24-1\*ap01

2536 sequences assigned  
2524 (99.5%) exact matches, in which:  
2524 unique CDR3  
12 unique J



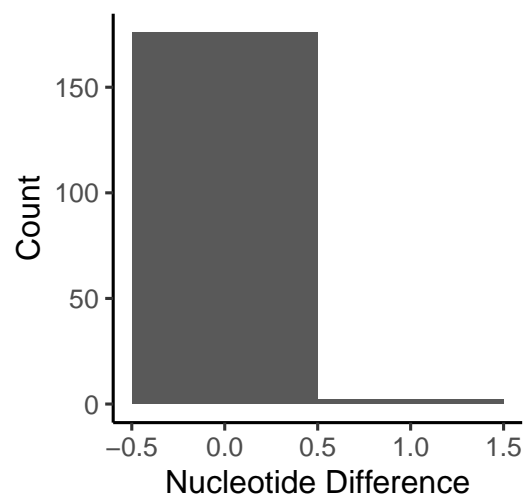
### TRBV4-3\*ap01

1330 sequences assigned  
1327 (99.8%) exact matches, in which:  
1327 unique CDR3  
12 unique J



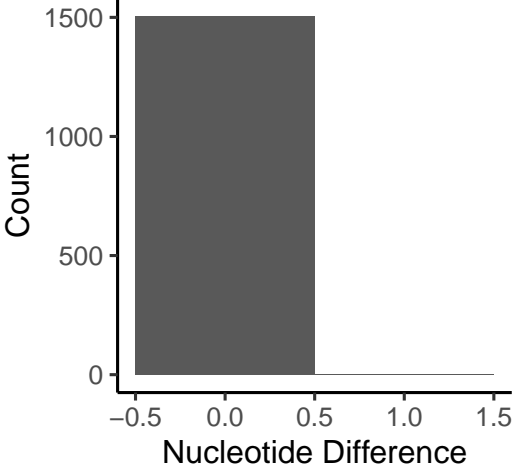
### TRBV5-3\*ap01

178 sequences assigned  
176 (98.9%) exact matches, in which:  
176 unique CDR3  
12 unique J



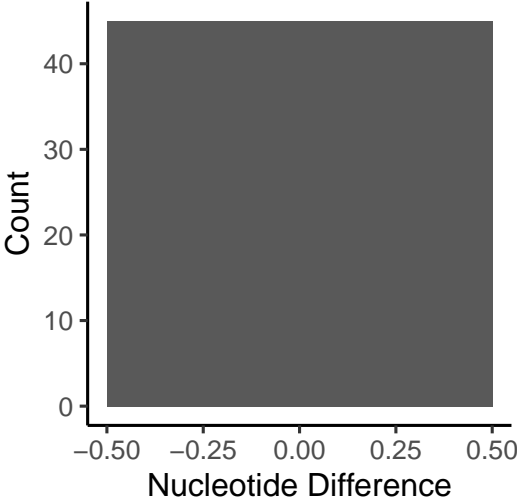
TRBV5-4\*ap01

1505 sequences assigned  
1504 (99.9%) exact matches, in which:  
1503 unique CDR3  
12 unique J



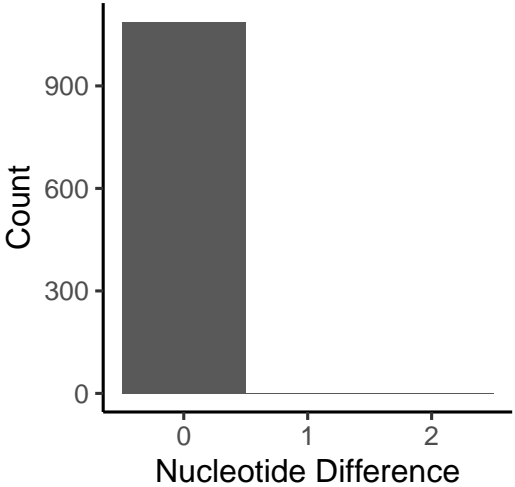
TRBV5-7\*ap01

45 sequences assigned  
45 (100%) exact matches, in which:  
45 unique CDR3  
10 unique J



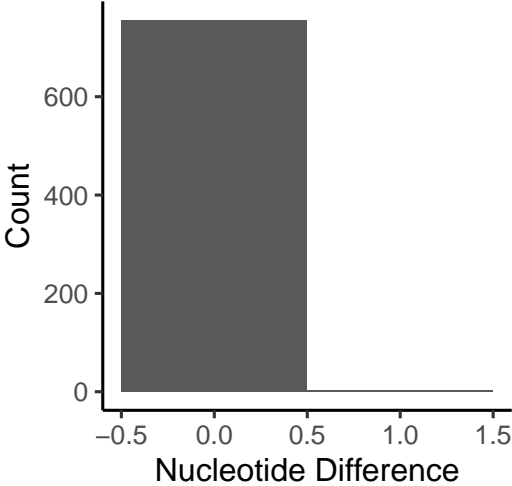
TRBV6-4\*ap01

1091 sequences assigned  
1088 (99.7%) exact matches, in which:  
1087 unique CDR3  
12 unique J



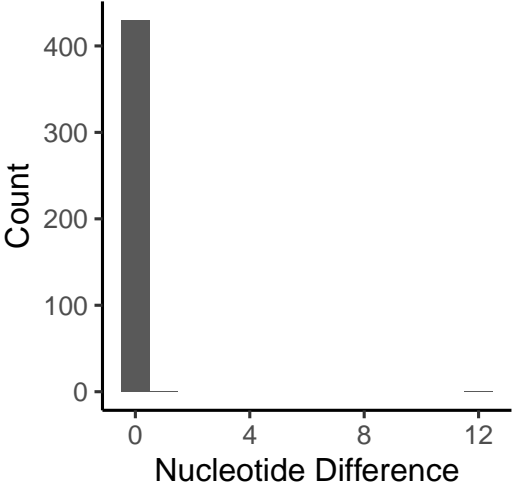
TRBV5-5\*ap01

759 sequences assigned  
756 (99.6%) exact matches, in which:  
756 unique CDR3  
12 unique J



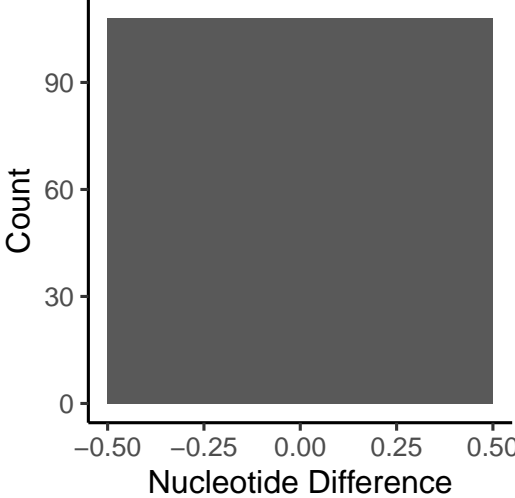
TRBV5-8\*ap01

432 sequences assigned  
430 (99.5%) exact matches, in which:  
430 unique CDR3  
12 unique J



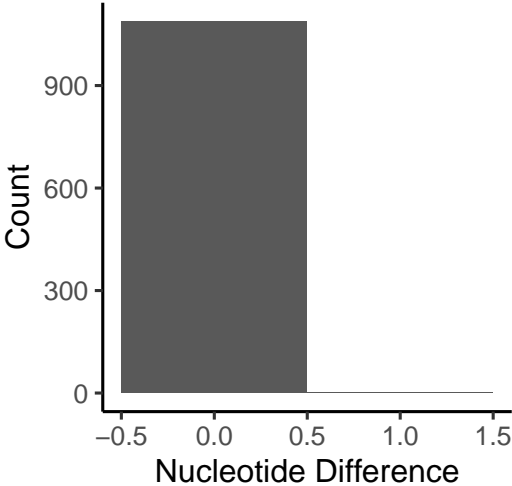
TRBV6-7\*ap01

108 sequences assigned  
108 (100%) exact matches, in which:  
108 unique CDR3  
12 unique J



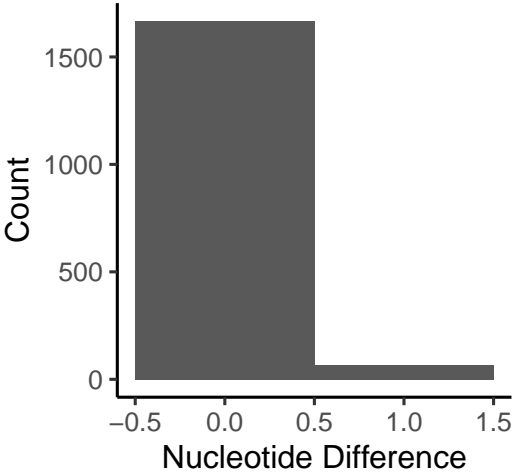
TRBV5-6\*ap01

1090 sequences assigned  
1088 (99.8%) exact matches, in which:  
1088 unique CDR3  
12 unique J



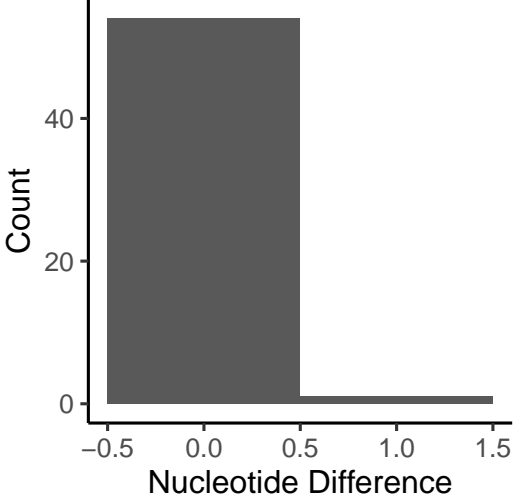
TRBV6-1\*ap01

1733 sequences assigned  
1667 (96.2%) exact matches, in which:  
1665 unique CDR3  
12 unique J



TRBV6-8\*ap01

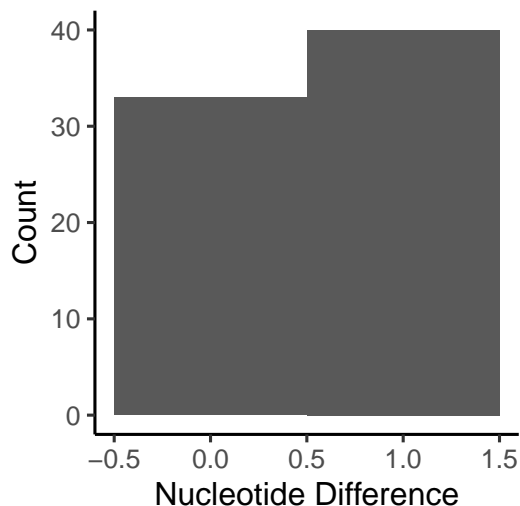
55 sequences assigned  
54 (98.2%) exact matches, in which:  
54 unique CDR3  
12 unique J





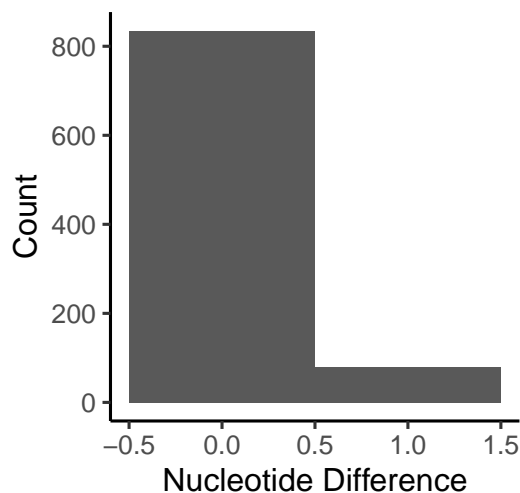
### TRBV6-9\*ap01

73 sequences assigned  
33 (45.2%) exact matches, in which:  
33 unique CDR3  
10 unique J



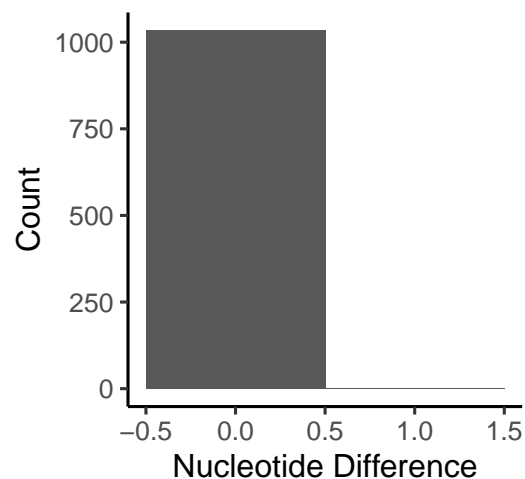
### TRBV6-56\*ap02

915 sequences assigned  
835 (91.3%) exact matches, in which:  
834 unique CDR3  
12 unique J



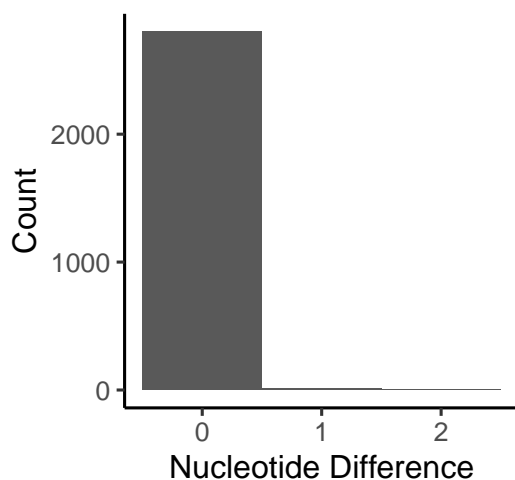
### TRBV7-3\*ap01

1036 sequences assigned  
1034 (99.8%) exact matches, in which:  
1033 unique CDR3  
12 unique J



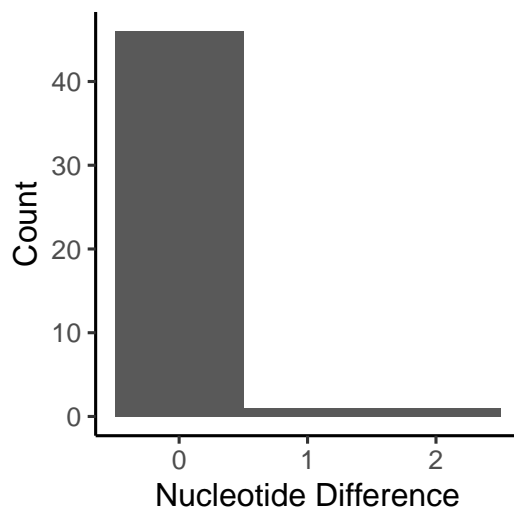
### TRBV6-23\*ap01

2810 sequences assigned  
2801 (99.7%) exact matches, in which:  
2796 unique CDR3  
12 unique J



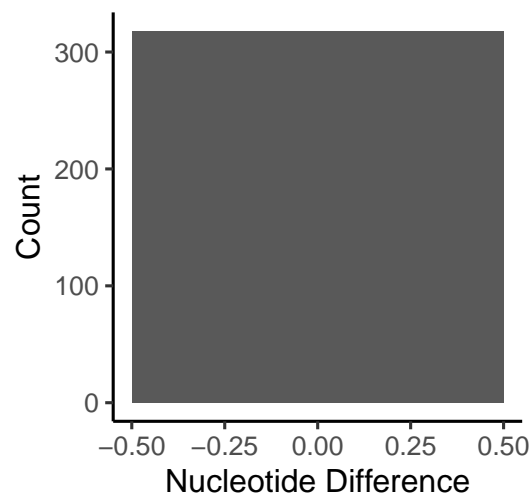
### TRBV7-1\*ap01\_G291C\_T

48 sequences assigned  
46 (95.8%) exact matches, in which:  
46 unique CDR3  
11 unique J



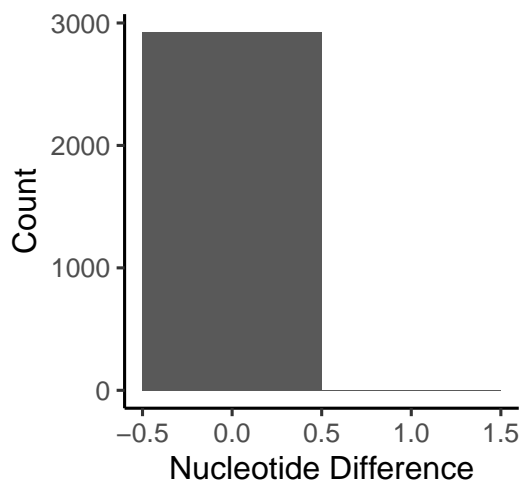
### TRBV7-3\*ap02

318 sequences assigned  
318 (100%) exact matches, in which:  
316 unique CDR3  
12 unique J



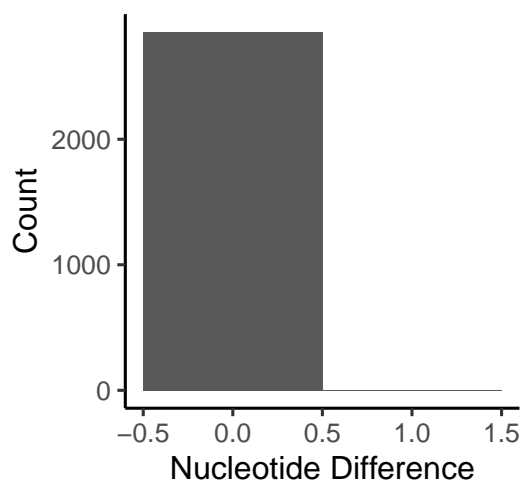
### TRBV6-56\*ap01

2929 sequences assigned  
2926 (99.9%) exact matches, in which:  
2921 unique CDR3  
12 unique J



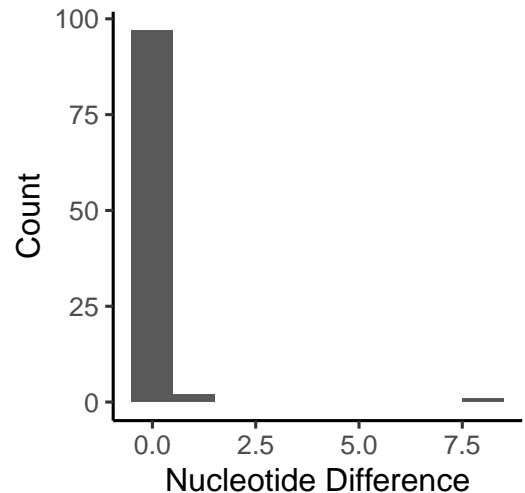
### TRBV7-2\*ap01

2858 sequences assigned  
2854 (99.9%) exact matches, in which:  
2853 unique CDR3  
12 unique J



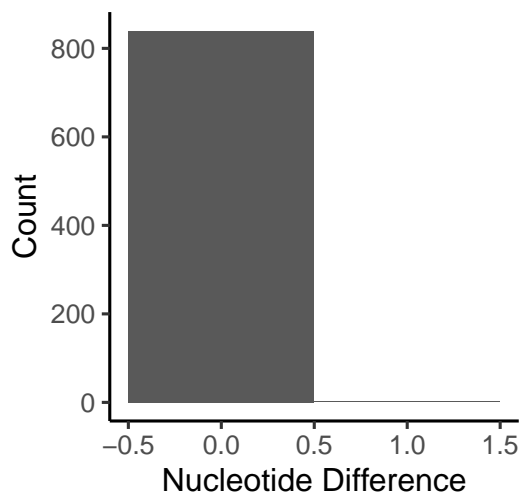
### TRBV7-4\*ap01

100 sequences assigned  
97 (97%) exact matches, in which:  
97 unique CDR3  
11 unique J



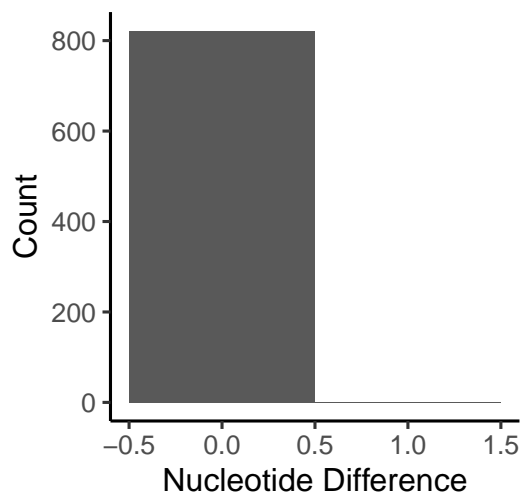
### TRBV7-6\*ap01

842 sequences assigned  
840 (99.8%) exact matches, in which:  
839 unique CDR3  
12 unique J



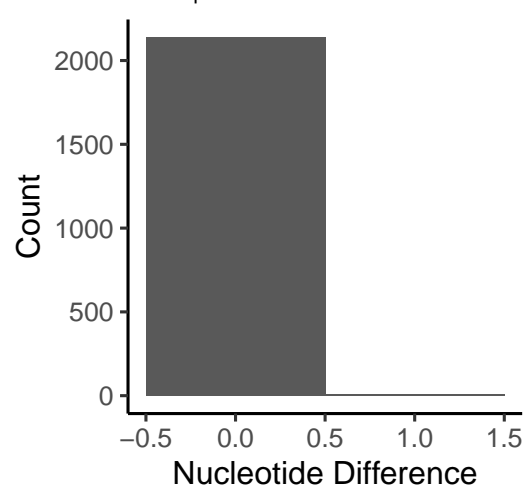
### TRBV7-8\*ap01

823 sequences assigned  
822 (99.9%) exact matches, in which:  
822 unique CDR3  
12 unique J



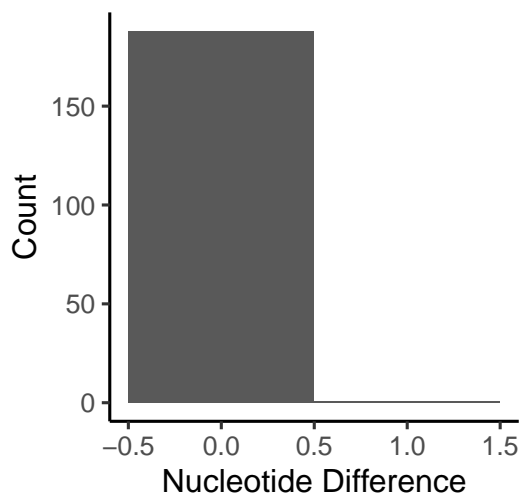
### TRBV29-1\*ap01

2146 sequences assigned  
2138 (99.6%) exact matches, in which:  
2135 unique CDR3  
12 unique J



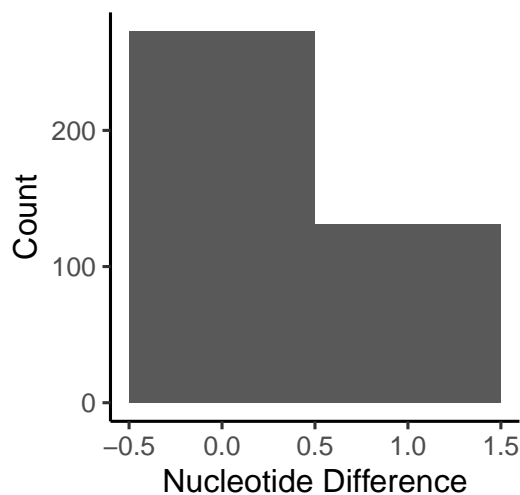
### TRBV7-7\*ap01

189 sequences assigned  
188 (99.5%) exact matches, in which:  
188 unique CDR3  
11 unique J



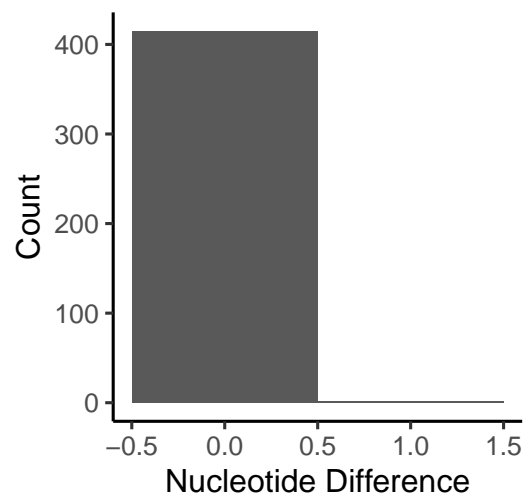
### TRBV7-8\*ap03

404 sequences assigned  
273 (67.6%) exact matches, in which:  
272 unique CDR3  
12 unique J



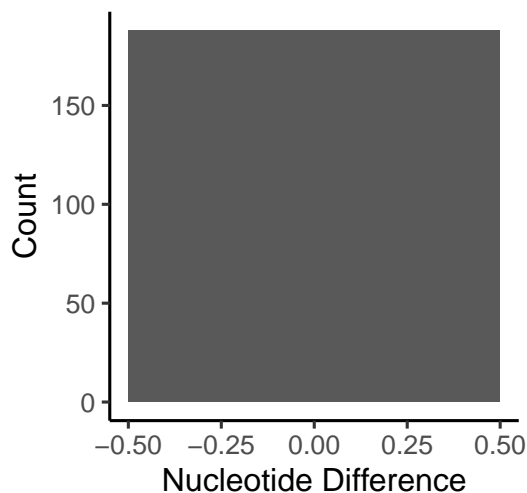
### TRBV29-1\*ap02

417 sequences assigned  
415 (99.5%) exact matches, in which:  
414 unique CDR3  
12 unique J



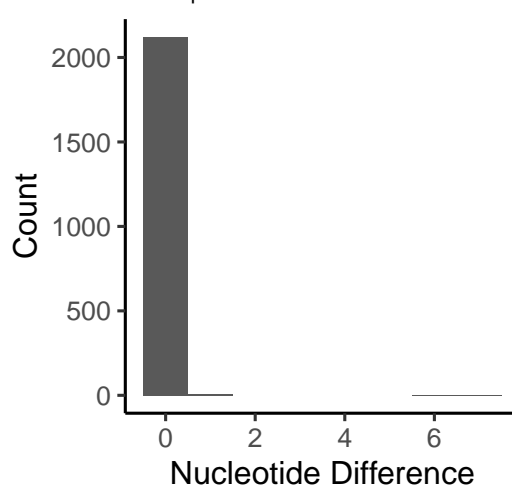
### TRBV7-7\*ap01\_C315T

188 sequences assigned  
188 (100%) exact matches, in which:  
187 unique CDR3  
12 unique J

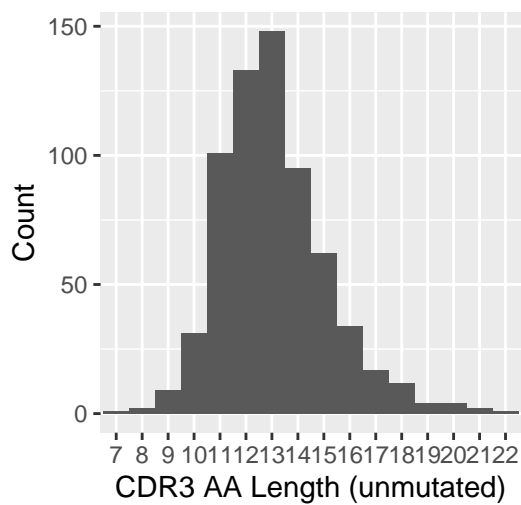


### TRBV7-9\*ap01

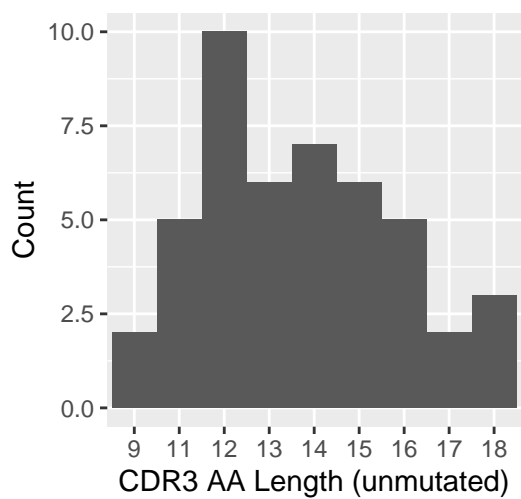
2129 sequences assigned  
2121 (99.6%) exact matches, in which:  
2121 unique CDR3  
12 unique J



TRBV11-3\*ap01\_T312C



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

