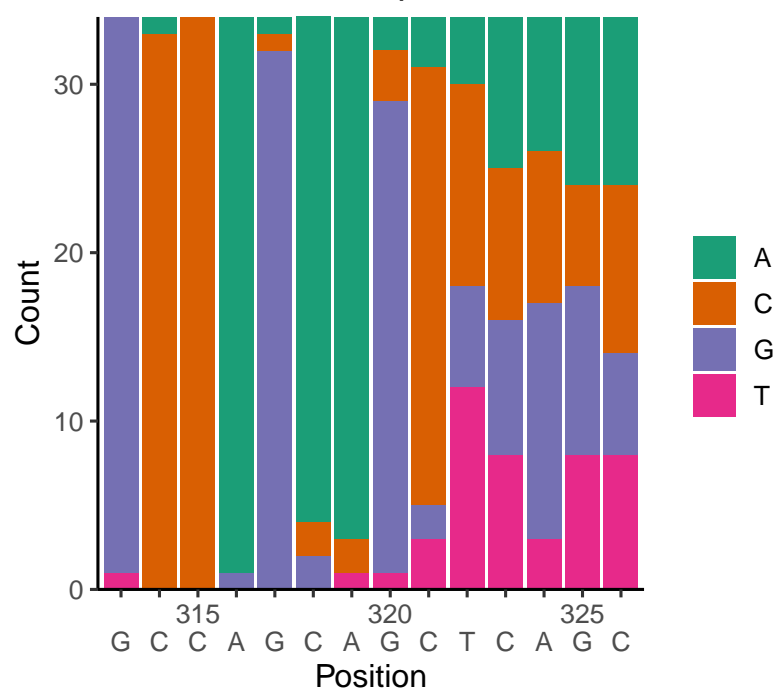
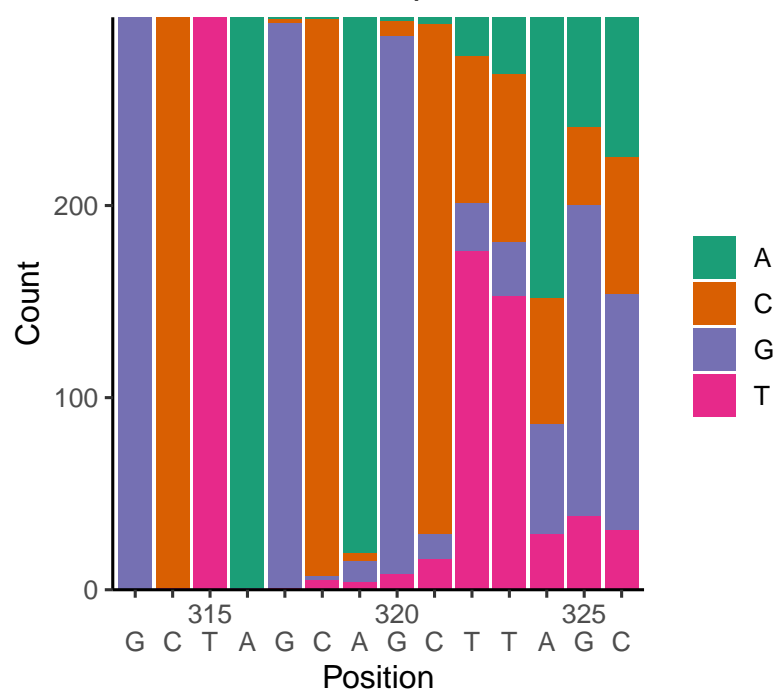


Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



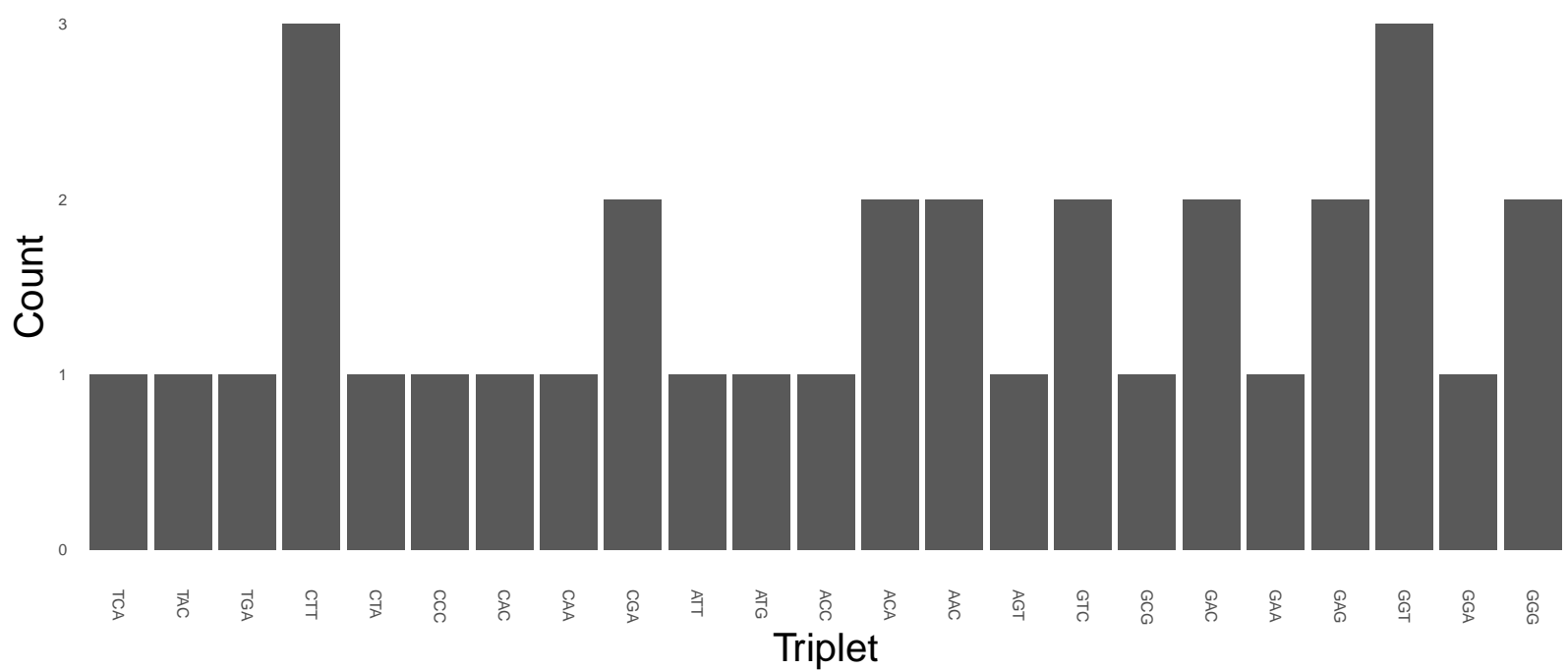
Gene TRBV7-1\*ap01\_T296C



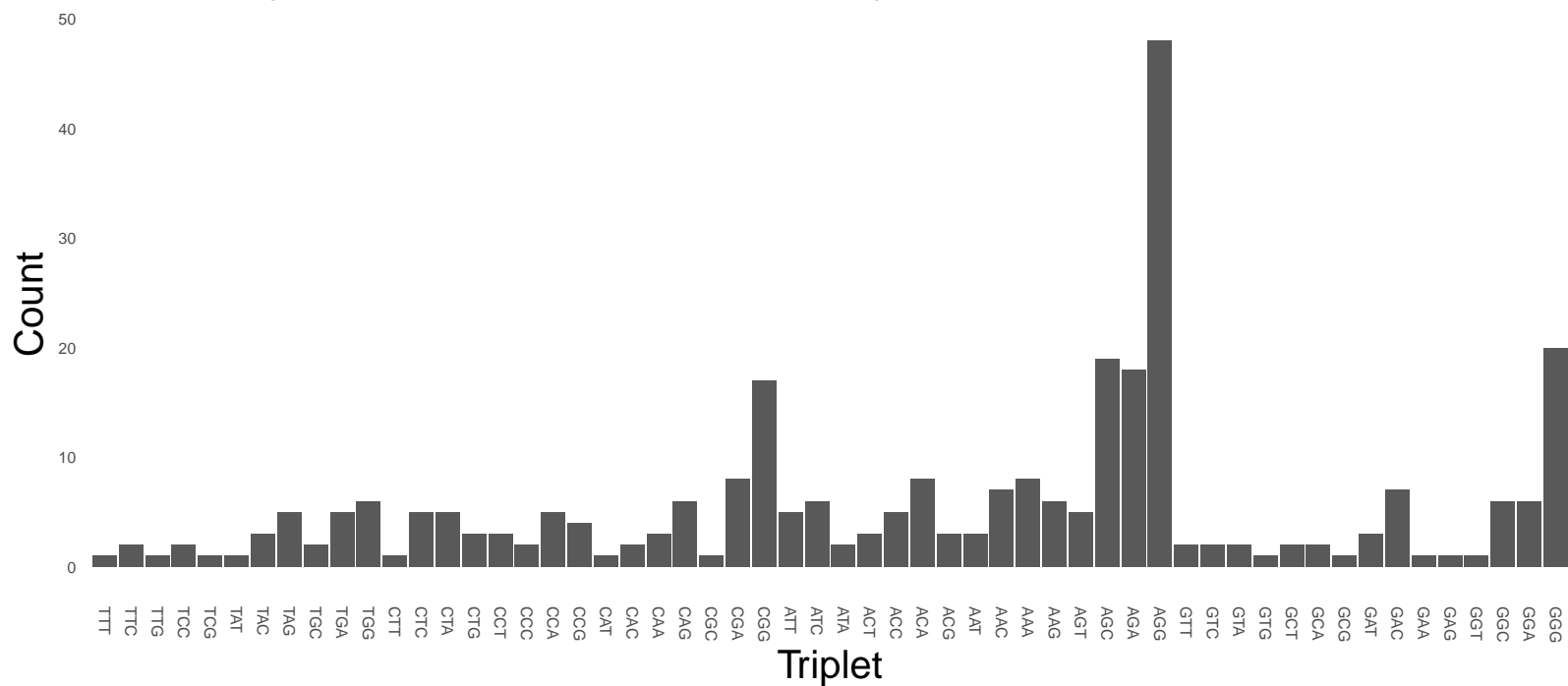
Gene TRBV7-7\*ap01\_C315T



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

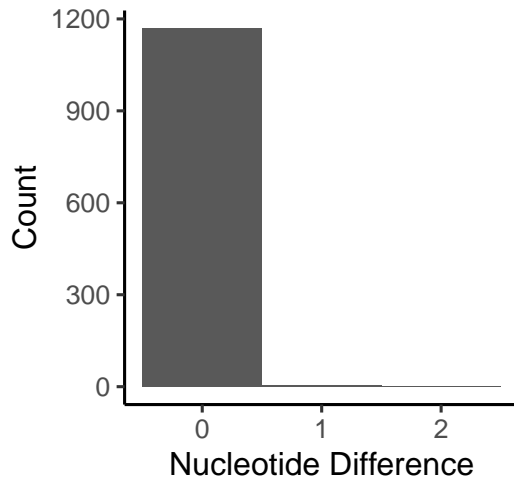


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



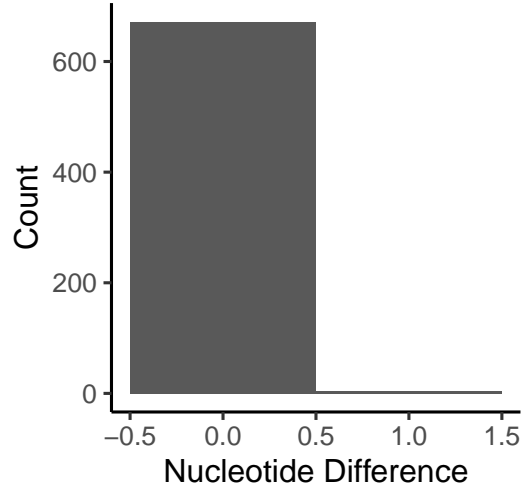
### TRBV10-1\*ap01

1176 sequences assigned  
1169 (99.4%) exact matches, in which:  
1161 unique CDR3  
13 unique J



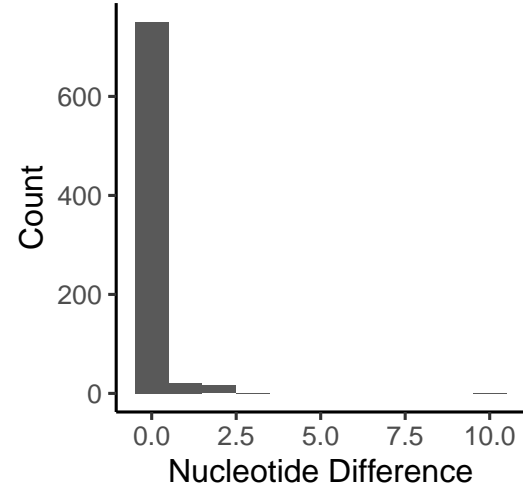
### TRBV10-2\*ap01

677 sequences assigned  
672 (99.3%) exact matches, in which:  
666 unique CDR3  
13 unique J



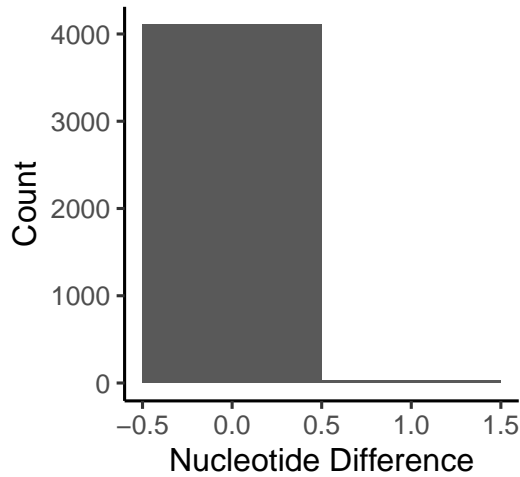
### TRBV13\*ap01

790 sequences assigned  
751 (95.1%) exact matches, in which:  
744 unique CDR3  
13 unique J



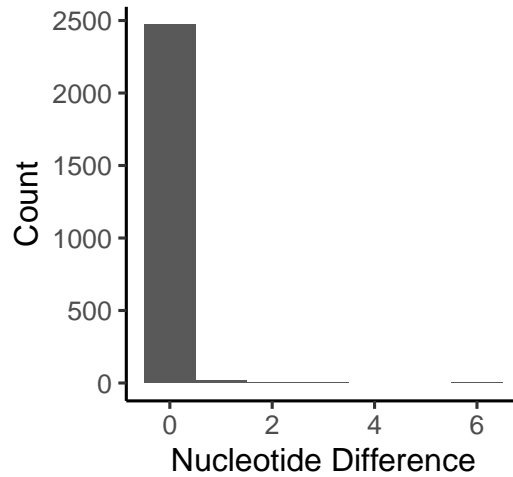
### TRBV20-1\*ap01

4131 sequences assigned  
4106 (99.4%) exact matches, in which:  
4084 unique CDR3  
13 unique J



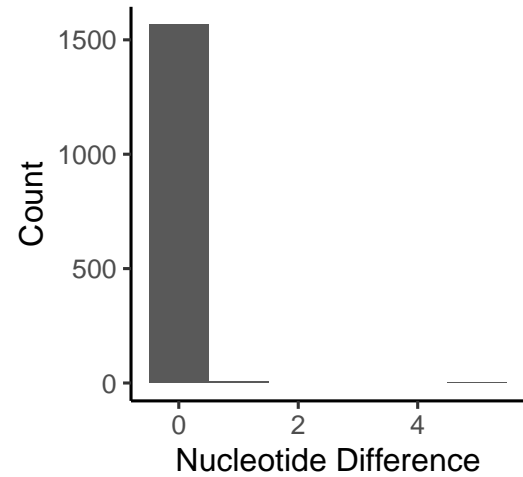
### TRBV10-3\*ap01

2493 sequences assigned  
2471 (99.1%) exact matches, in which:  
2460 unique CDR3  
13 unique J



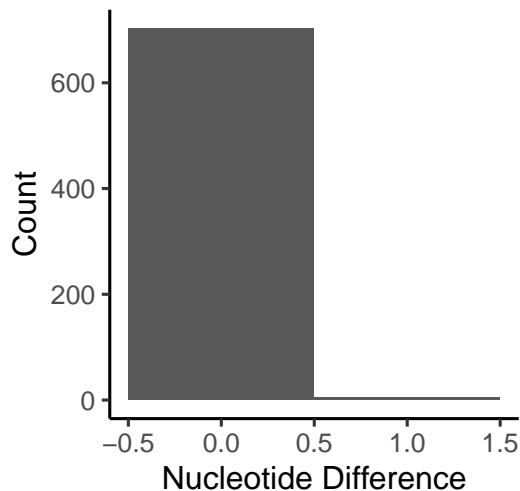
### TRBV14\*ap01

1575 sequences assigned  
1566 (99.4%) exact matches, in which:  
1557 unique CDR3  
13 unique J



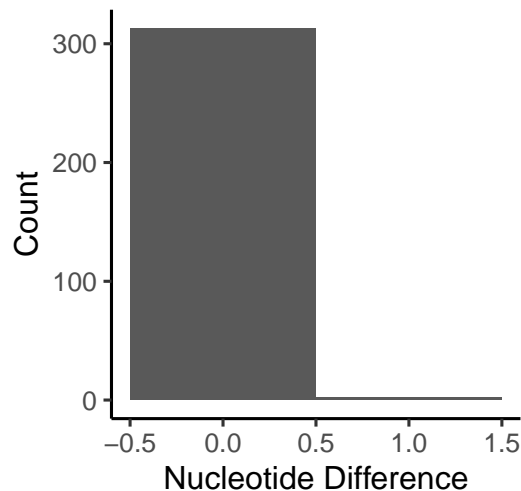
### TRBV20-1\*ap02

707 sequences assigned  
703 (99.4%) exact matches, in which:  
699 unique CDR3  
13 unique J



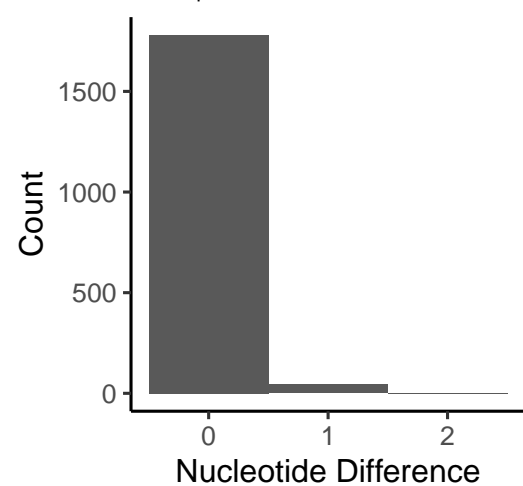
### TRBV1\*ap01

315 sequences assigned  
313 (99.4%) exact matches, in which:  
308 unique CDR3  
13 unique J



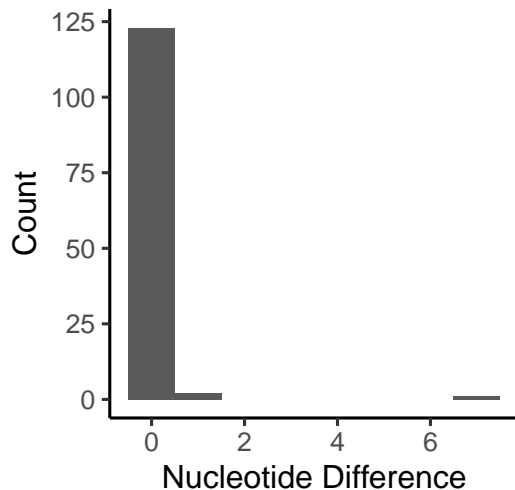
### TRBV15\*ap02

1824 sequences assigned  
1780 (97.6%) exact matches, in which:  
1766 unique CDR3  
13 unique J



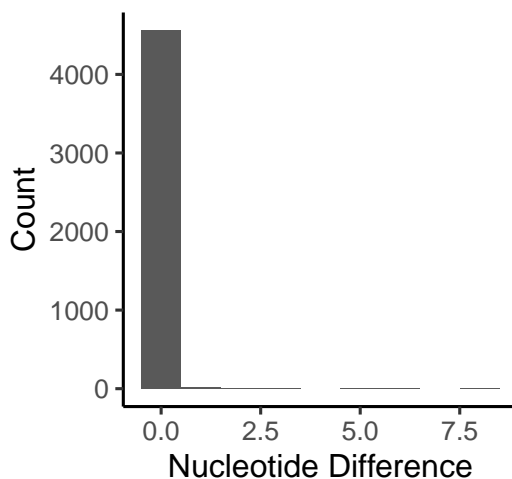
### TRBV16\*ap01

126 sequences assigned  
123 (97.6%) exact matches, in which:  
120 unique CDR3  
13 unique J



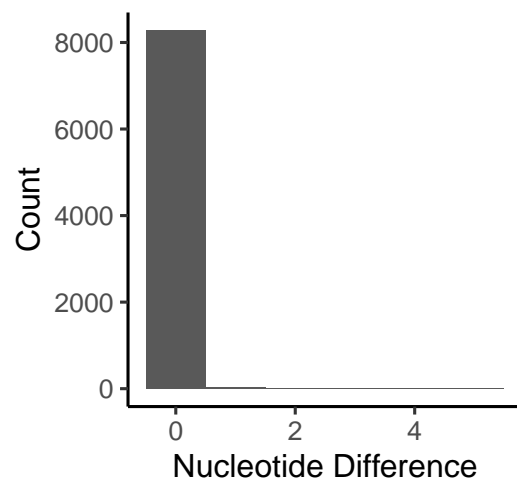
### TRBV2\*ap01

4591 sequences assigned  
4560 (99.3%) exact matches, in which:  
4544 unique CDR3  
13 unique J



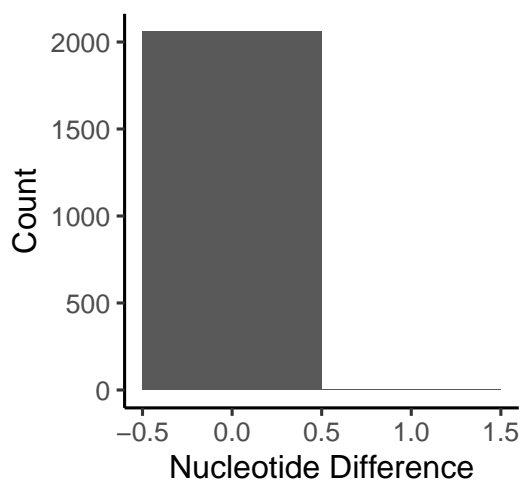
### TRBV28\*ap01

8312 sequences assigned  
8279 (99.6%) exact matches, in which:  
8250 unique CDR3  
13 unique J



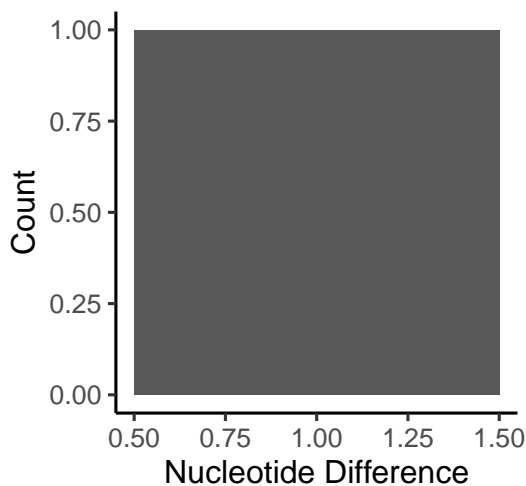
### TRBV18\*ap01

2060 sequences assigned  
2059 (100%) exact matches, in which:  
2054 unique CDR3  
13 unique J



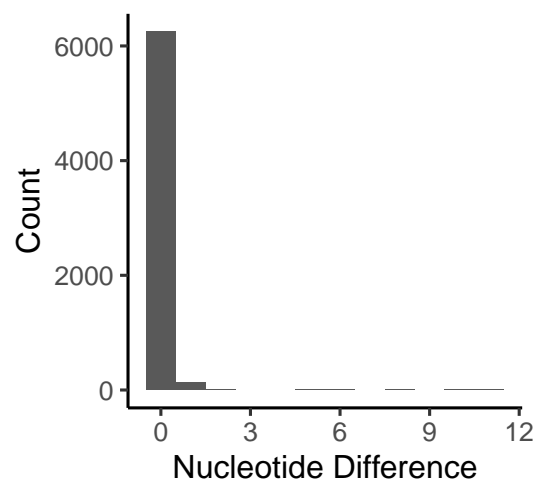
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



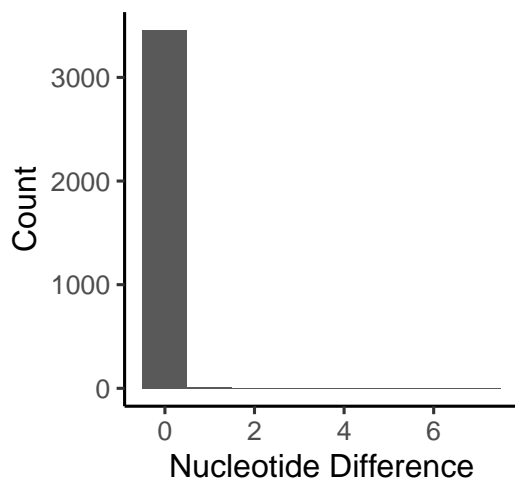
### TRBV30\*ap01

6382 sequences assigned  
6248 (97.9%) exact matches, in which:  
6148 unique CDR3  
13 unique J



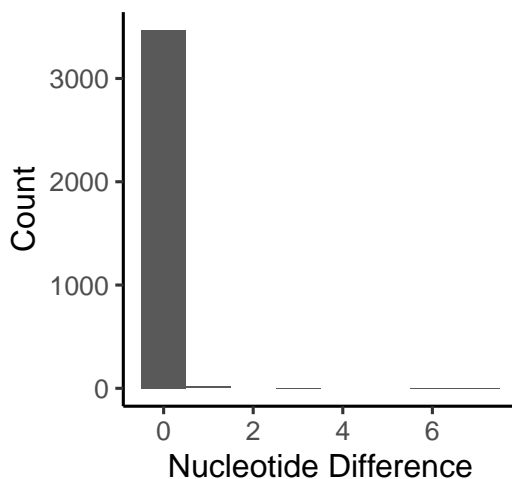
### TRBV19\*ap01

3479 sequences assigned  
3457 (99.4%) exact matches, in which:  
3450 unique CDR3  
13 unique J



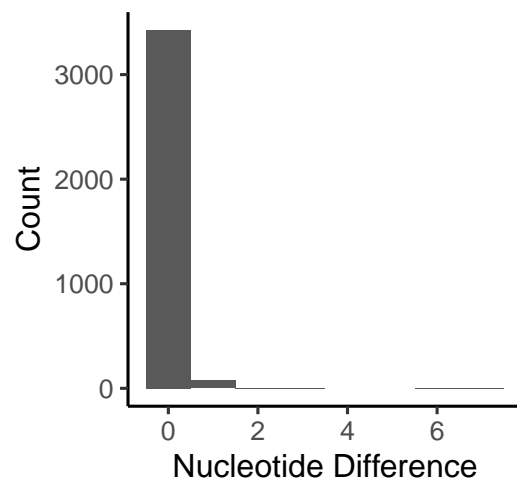
### TRBV27\*ap01

3490 sequences assigned  
3469 (99.4%) exact matches, in which:  
3448 unique CDR3  
13 unique J



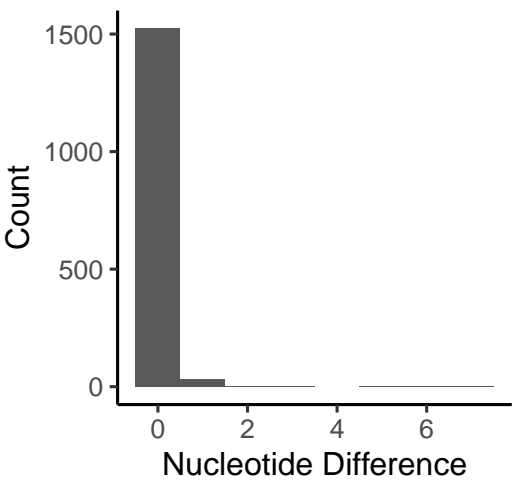
### TRBV9\*ap01

3506 sequences assigned  
3426 (97.7%) exact matches, in which:  
3397 unique CDR3  
13 unique J



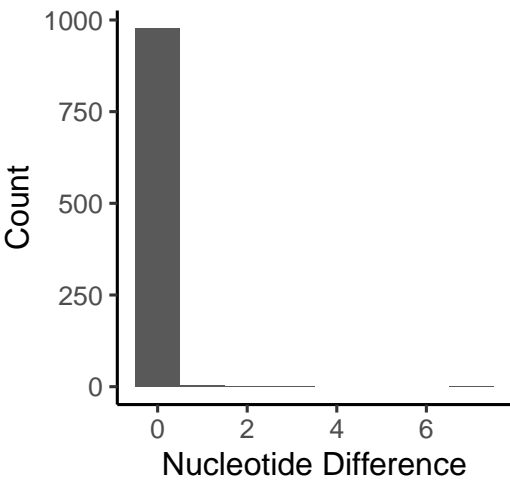
TRBV21-1\*ap01

1564 sequences assigned  
1524 (97.4%) exact matches, in which:  
1515 unique CDR3  
13 unique J



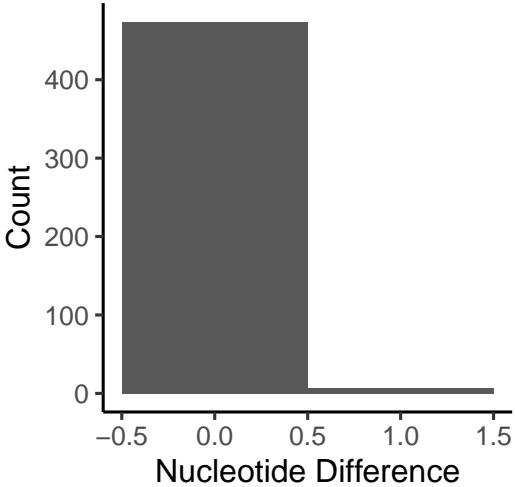
TRBV11-3\*ap01

984 sequences assigned  
977 (99.3%) exact matches, in which:  
973 unique CDR3  
13 unique J



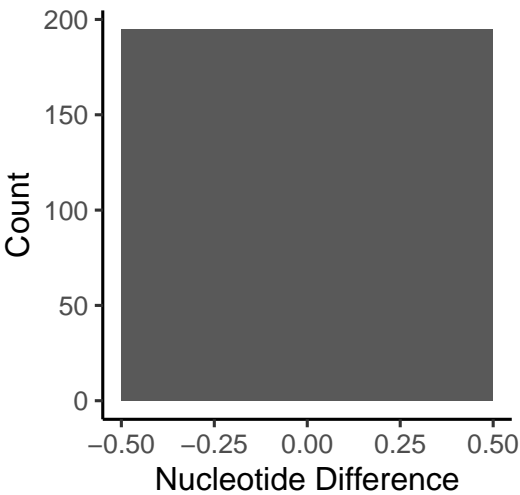
TRBV12-5\*ap01

481 sequences assigned  
474 (98.5%) exact matches, in which:  
471 unique CDR3  
13 unique J



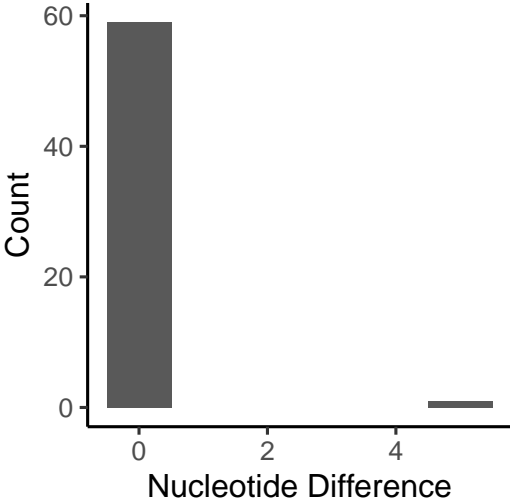
TRBV11-1\*ap01

195 sequences assigned  
195 (100%) exact matches, in which:  
194 unique CDR3  
12 unique J



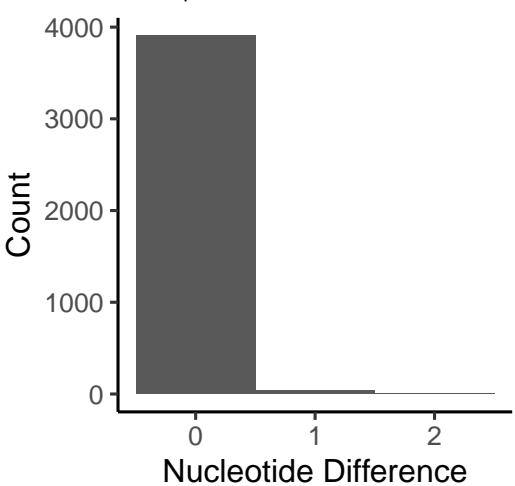
TRBV12-1\*ap01

60 sequences assigned  
59 (98.3%) exact matches, in which:  
59 unique CDR3  
11 unique J



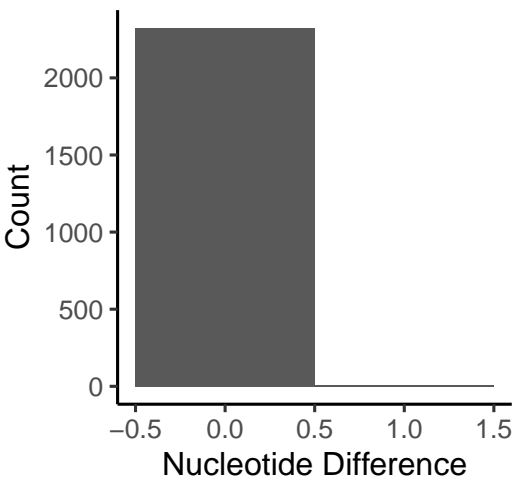
TRBV12-34\*ap01

3946 sequences assigned  
3906 (99%) exact matches, in which:  
3886 unique CDR3  
14 unique J



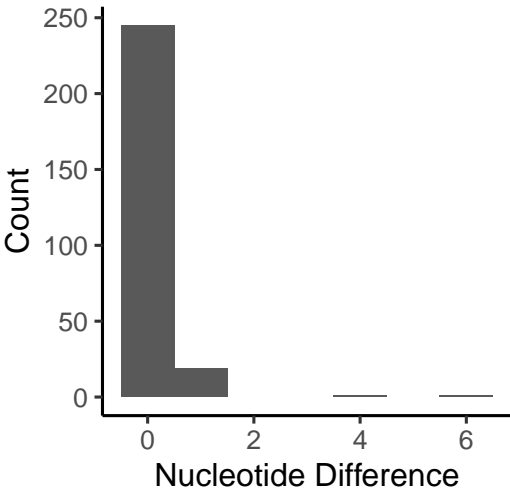
TRBV11-2\*ap01

2331 sequences assigned  
2323 (99.7%) exact matches, in which:  
2306 unique CDR3  
13 unique J



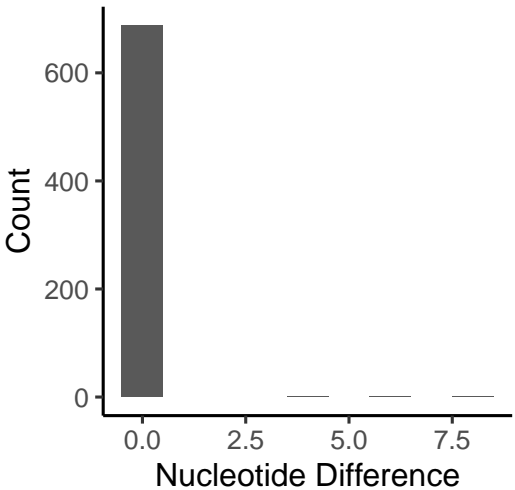
TRBV12-2\*ap01

266 sequences assigned  
245 (92.1%) exact matches, in which:  
239 unique CDR3  
13 unique J



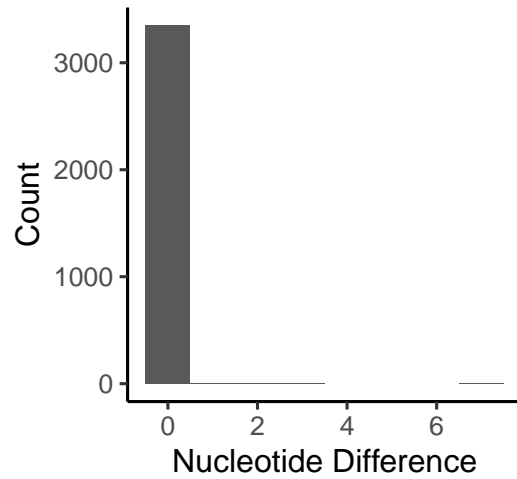
TRBV23-1\*ap01

691 sequences assigned  
688 (99.6%) exact matches, in which:  
685 unique CDR3  
13 unique J



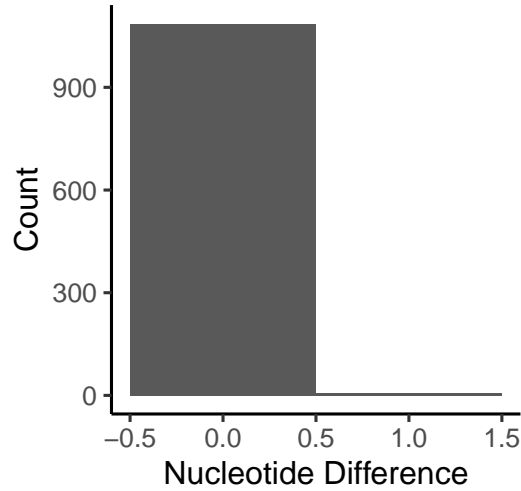
### TRBV3-12\*ap01

3361 sequences assigned  
3349 (99.6%) exact matches, in which:  
3337 unique CDR3  
13 unique J



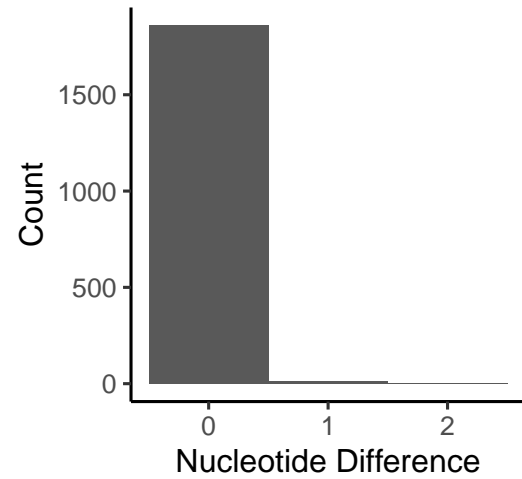
### TRBV4-2\*ap01

1092 sequences assigned  
1086 (99.5%) exact matches, in which:  
1074 unique CDR3  
13 unique J



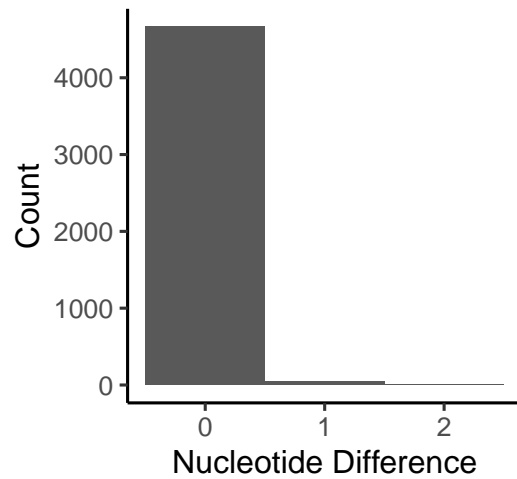
### TRBV25-1\*ap01

1876 sequences assigned  
1860 (99.1%) exact matches, in which:  
1834 unique CDR3  
13 unique J



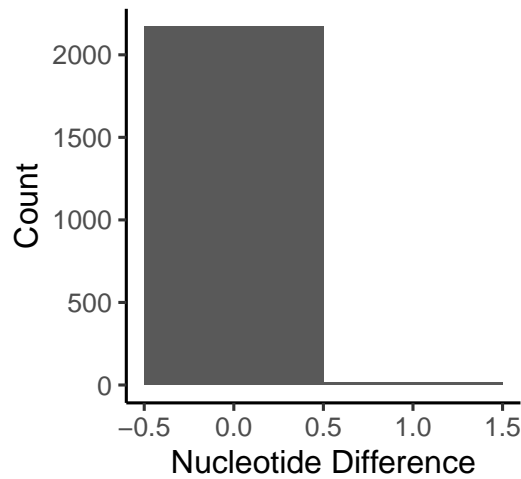
### TRBV4-1\*ap01

4706 sequences assigned  
4664 (99.1%) exact matches, in which:  
4611 unique CDR3  
13 unique J



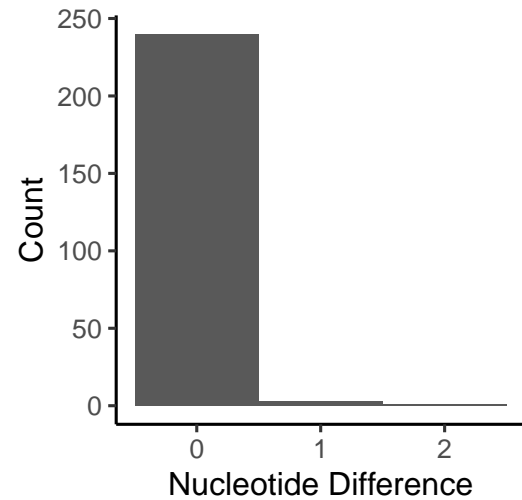
### TRBV4-3\*ap01

2183 sequences assigned  
2170 (99.4%) exact matches, in which:  
2148 unique CDR3  
13 unique J



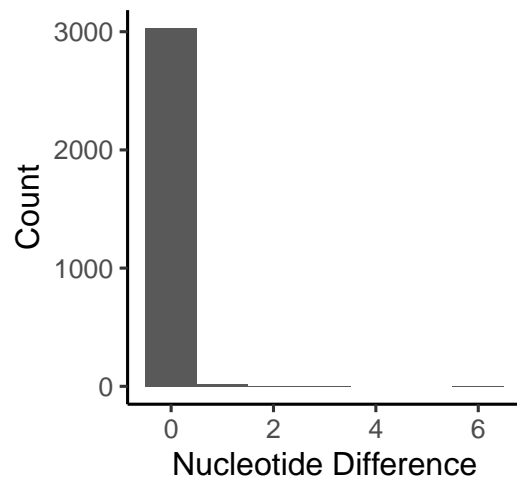
### TRBV5-3\*ap01

244 sequences assigned  
240 (98.4%) exact matches, in which:  
237 unique CDR3  
12 unique J



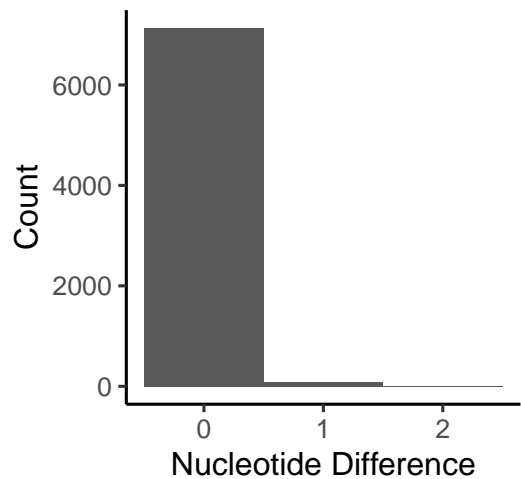
### TRBV24-1\*ap01

3054 sequences assigned  
3031 (99.2%) exact matches, in which:  
3002 unique CDR3  
13 unique J



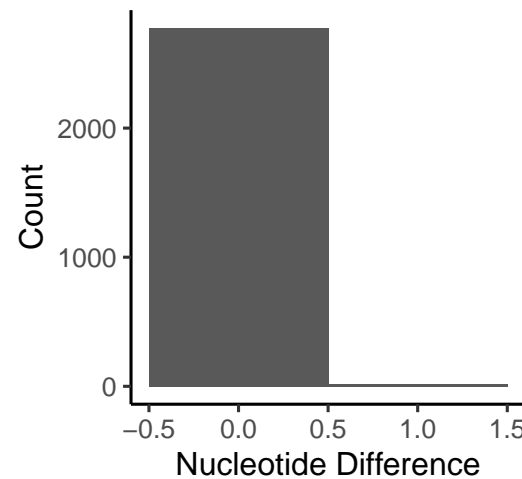
### TRBV5-1\*ap01

7221 sequences assigned  
7133 (98.8%) exact matches, in which:  
7086 unique CDR3  
13 unique J



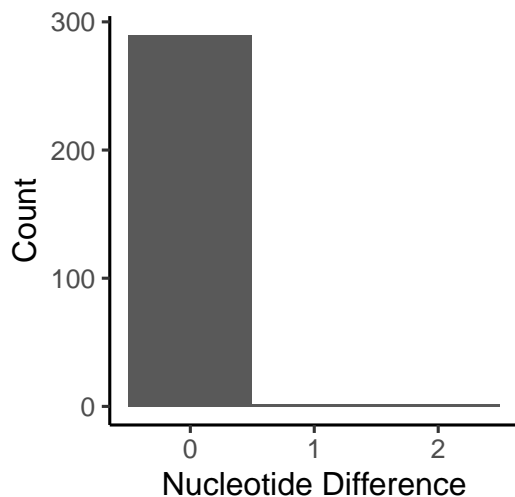
### TRBV5-4\*ap01

2795 sequences assigned  
2775 (99.3%) exact matches, in which:  
2758 unique CDR3  
13 unique J



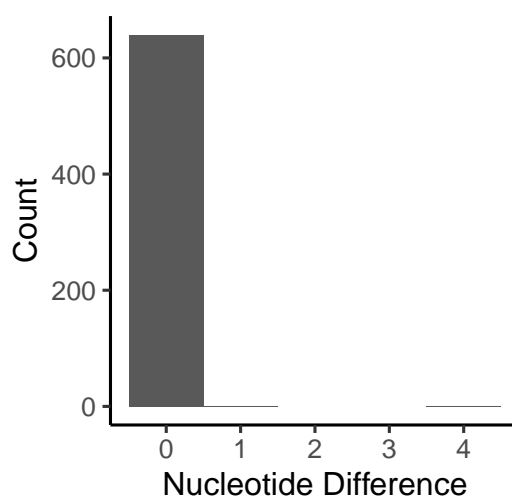
### TRBV5-5\*ap01

294 sequences assigned  
290 (98.6%) exact matches, in which:  
288 unique CDR3  
13 unique J



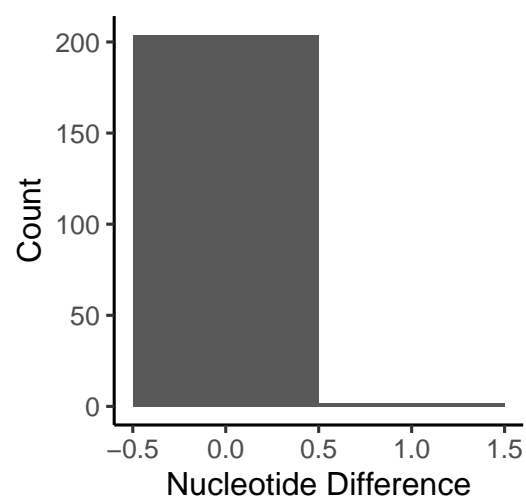
### TRBV5-8\*ap01

642 sequences assigned  
640 (99.7%) exact matches, in which:  
636 unique CDR3  
13 unique J



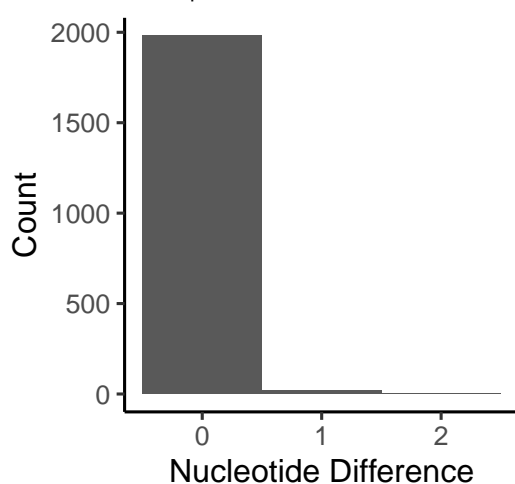
### TRBV6-7\*ap01

206 sequences assigned  
204 (99%) exact matches, in which:  
199 unique CDR3  
13 unique J



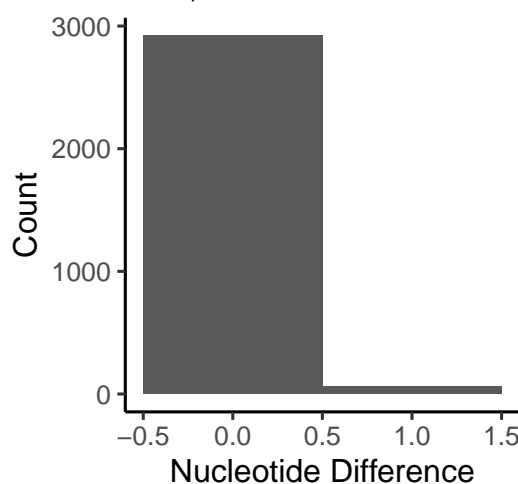
### TRBV5-6\*ap01

2004 sequences assigned  
1981 (98.9%) exact matches, in which:  
1968 unique CDR3  
13 unique J



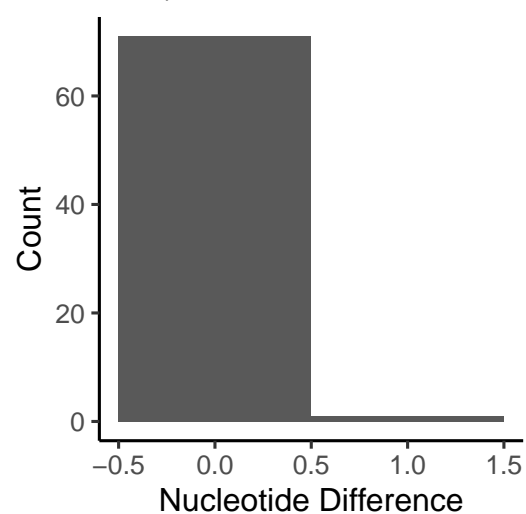
### TRBV6-1\*ap01

2986 sequences assigned  
2921 (97.8%) exact matches, in which:  
2901 unique CDR3  
13 unique J



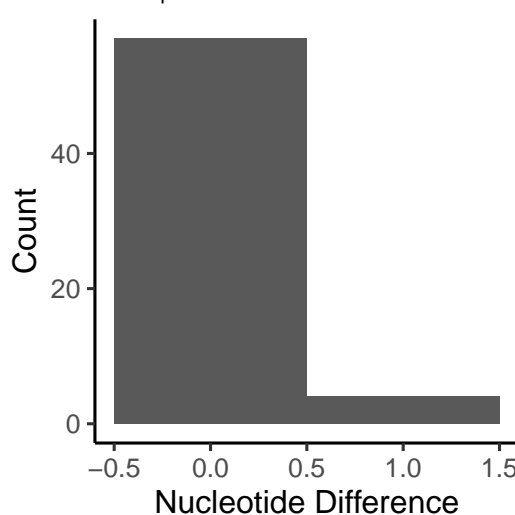
### TRBV6-8\*ap01

72 sequences assigned  
71 (98.6%) exact matches, in which:  
70 unique CDR3  
11 unique J



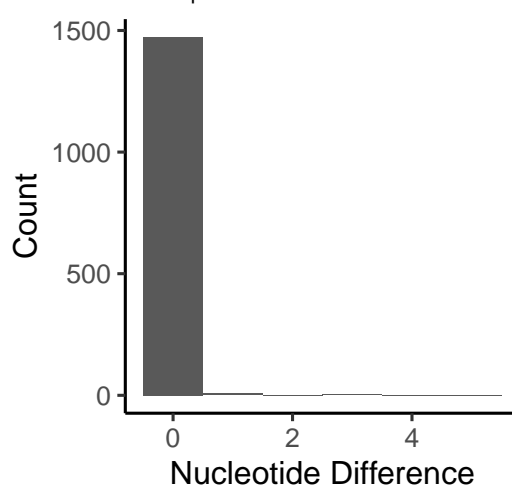
### TRBV5-7\*ap01

61 sequences assigned  
57 (93.4%) exact matches, in which:  
56 unique CDR3  
12 unique J



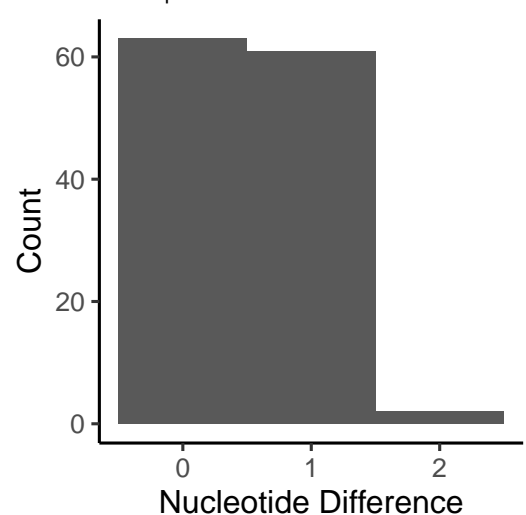
### TRBV6-4\*ap01

1486 sequences assigned  
1473 (99.1%) exact matches, in which:  
1465 unique CDR3  
13 unique J



### TRBV6-9\*ap01

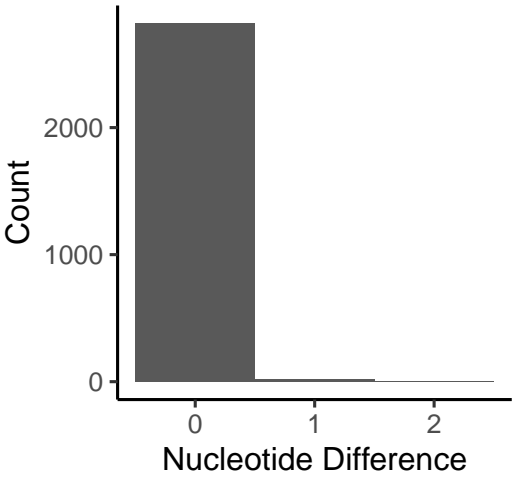
126 sequences assigned  
63 (50%) exact matches, in which:  
60 unique CDR3  
13 unique J





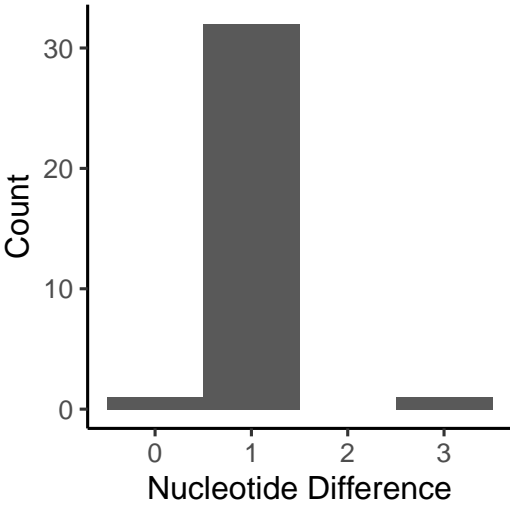
TRBV6-23\*ap01

2842 sequences assigned  
2820 (99.2%) exact matches, in which:  
2792 unique CDR3  
13 unique J



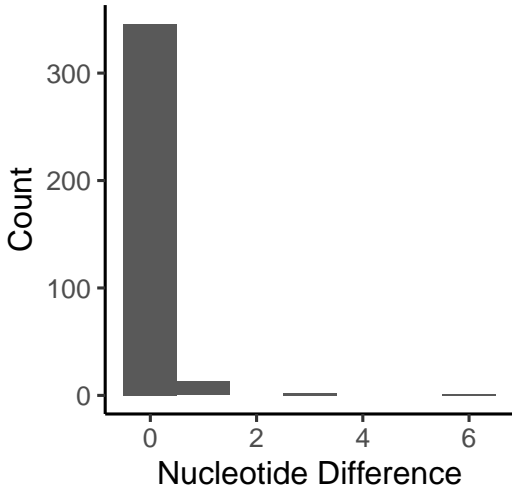
TRBV7-1\*ap01\_T296C

34 sequences assigned  
1 (2.9%) exact matches, in which:  
1 unique CDR3  
1 unique J



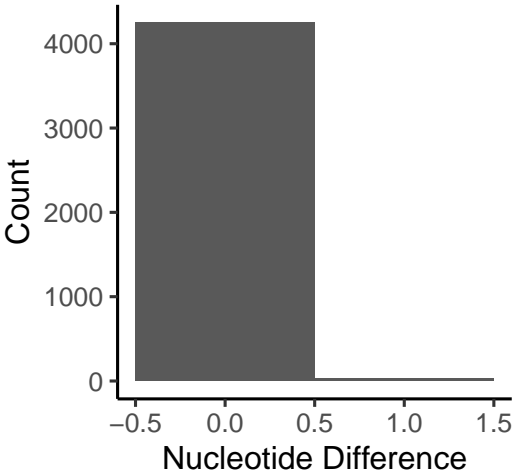
TRBV7-3\*ap03

362 sequences assigned  
346 (95.6%) exact matches, in which:  
344 unique CDR3  
13 unique J



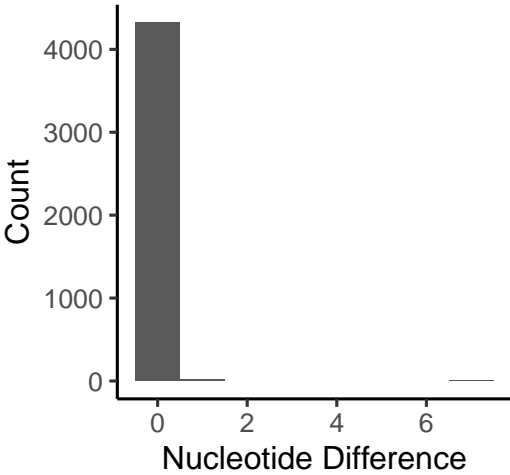
TRBV6-56\*ap01

4277 sequences assigned  
4249 (99.3%) exact matches, in which:  
4186 unique CDR3  
13 unique J



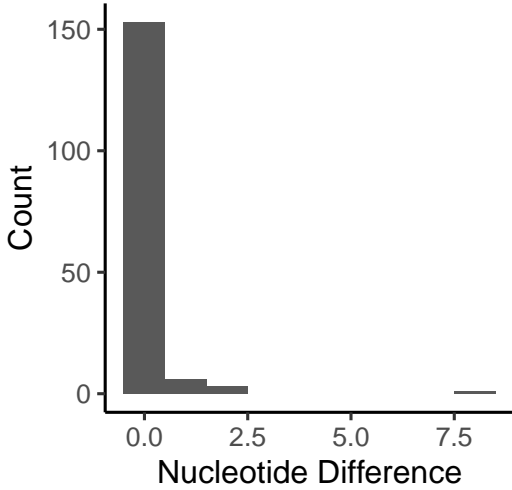
TRBV7-2\*ap01

4342 sequences assigned  
4321 (99.5%) exact matches, in which:  
4295 unique CDR3  
13 unique J



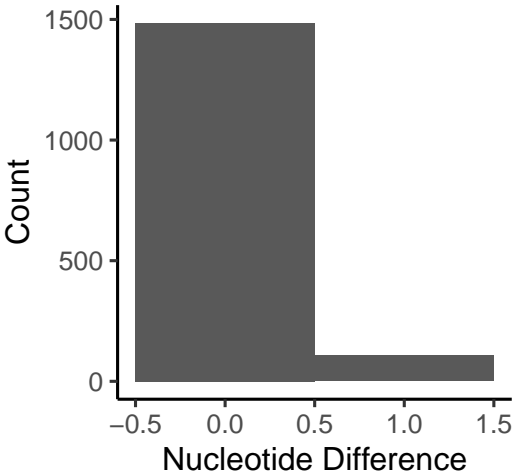
TRBV7-4\*ap01

163 sequences assigned  
153 (93.9%) exact matches, in which:  
151 unique CDR3  
13 unique J



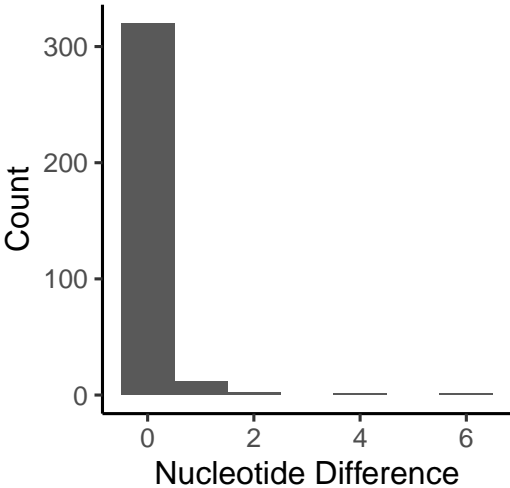
TRBV6-56\*ap02

1592 sequences assigned  
1485 (93.3%) exact matches, in which:  
1466 unique CDR3  
13 unique J



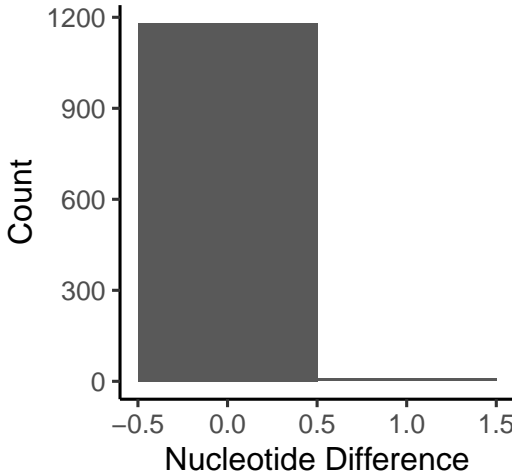
TRBV7-3\*ap02

336 sequences assigned  
320 (95.2%) exact matches, in which:  
318 unique CDR3  
12 unique J



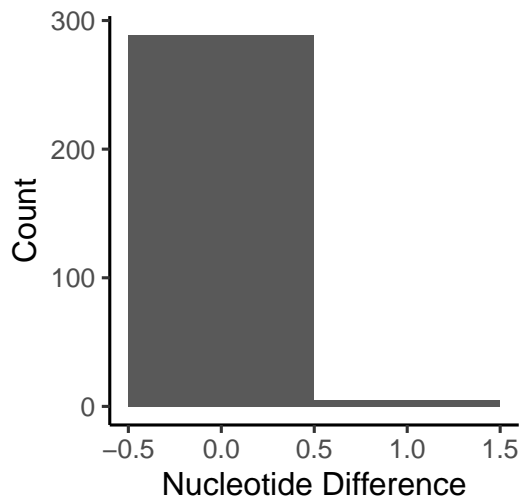
TRBV7-6\*ap01

1190 sequences assigned  
1181 (99.2%) exact matches, in which:  
1175 unique CDR3  
13 unique J



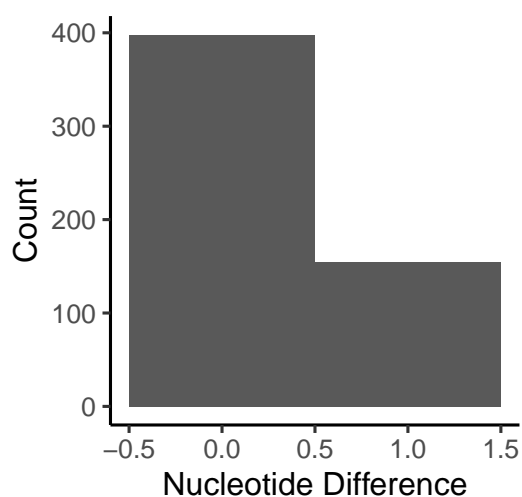
### TRBV7-7\*ap01

294 sequences assigned  
289 (98.3%) exact matches, in which:  
286 unique CDR3  
12 unique J



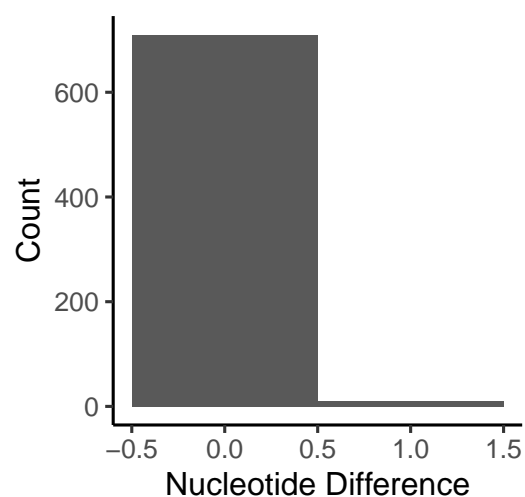
### TRBV7-8\*ap03

553 sequences assigned  
398 (72%) exact matches, in which:  
394 unique CDR3  
13 unique J



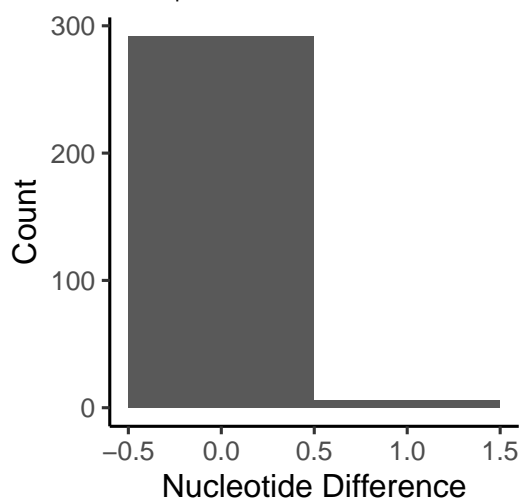
### TRBV29-1\*ap02

721 sequences assigned  
710 (98.5%) exact matches, in which:  
698 unique CDR3  
13 unique J



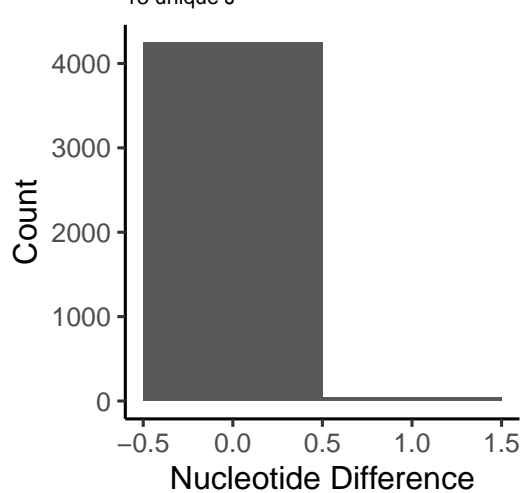
### TRBV7-7\*ap01\_C315T

298 sequences assigned  
292 (98%) exact matches, in which:  
292 unique CDR3  
13 unique J



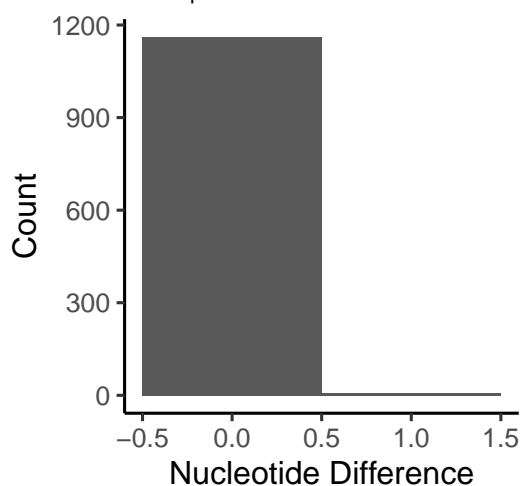
### TRBV7-9\*ap01

4293 sequences assigned  
4246 (98.9%) exact matches, in which:  
4222 unique CDR3  
13 unique J



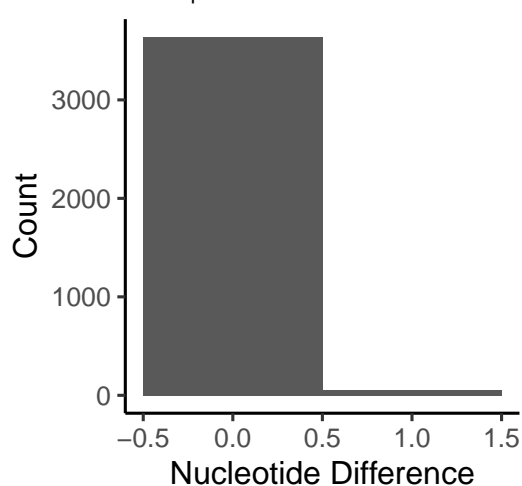
### TRBV7-8\*ap01

1169 sequences assigned  
1161 (99.3%) exact matches, in which:  
1158 unique CDR3  
13 unique J

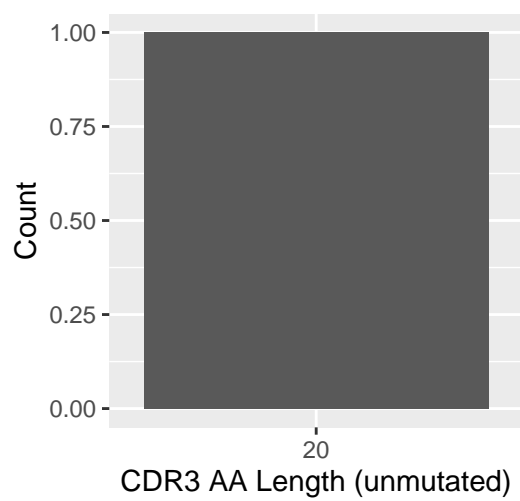


### TRBV29-1\*ap01

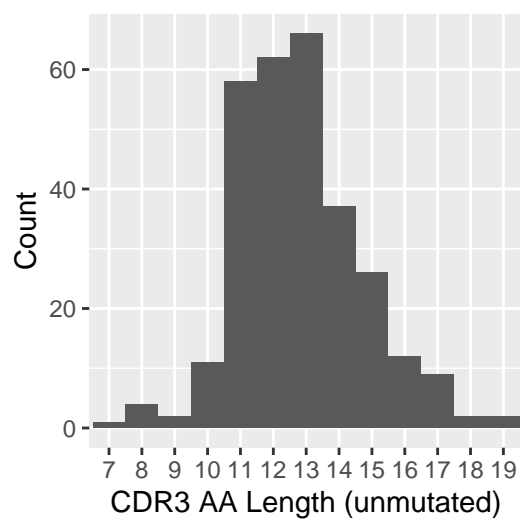
3693 sequences assigned  
3638 (98.5%) exact matches, in which:  
3569 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]