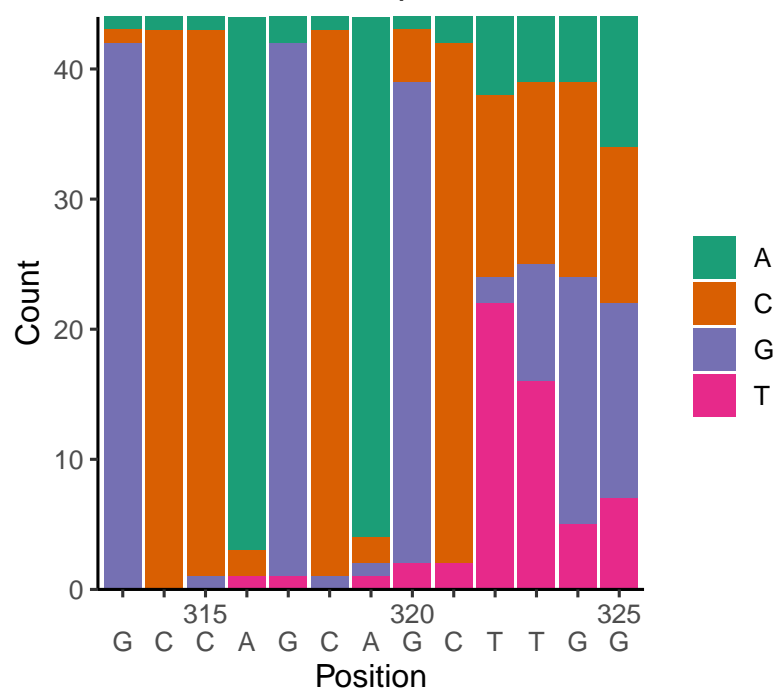
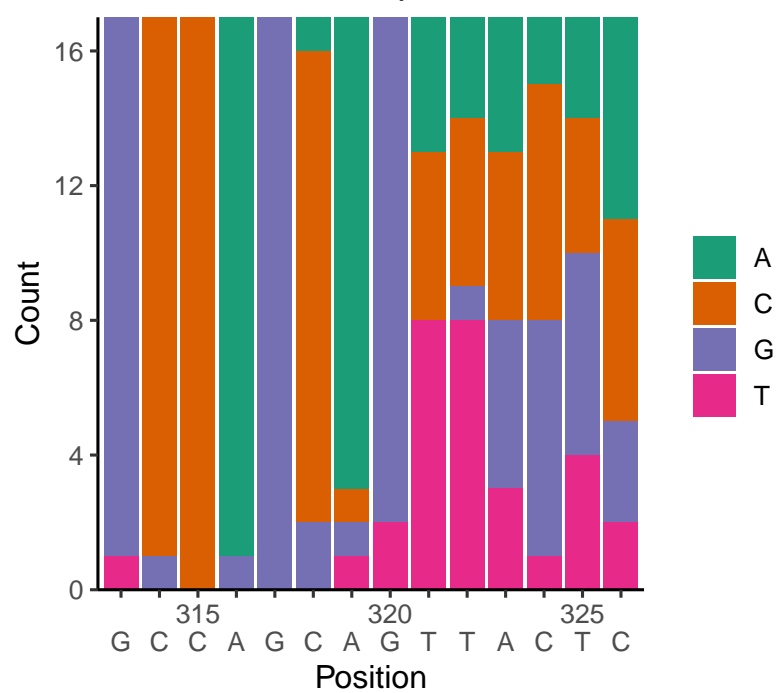


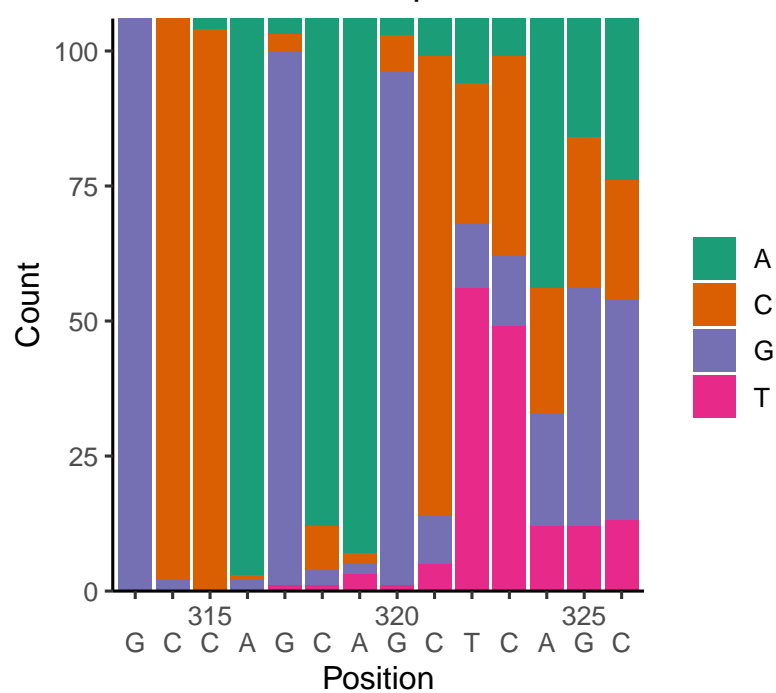
Gene TRBV5-7\*ap01\_G290A



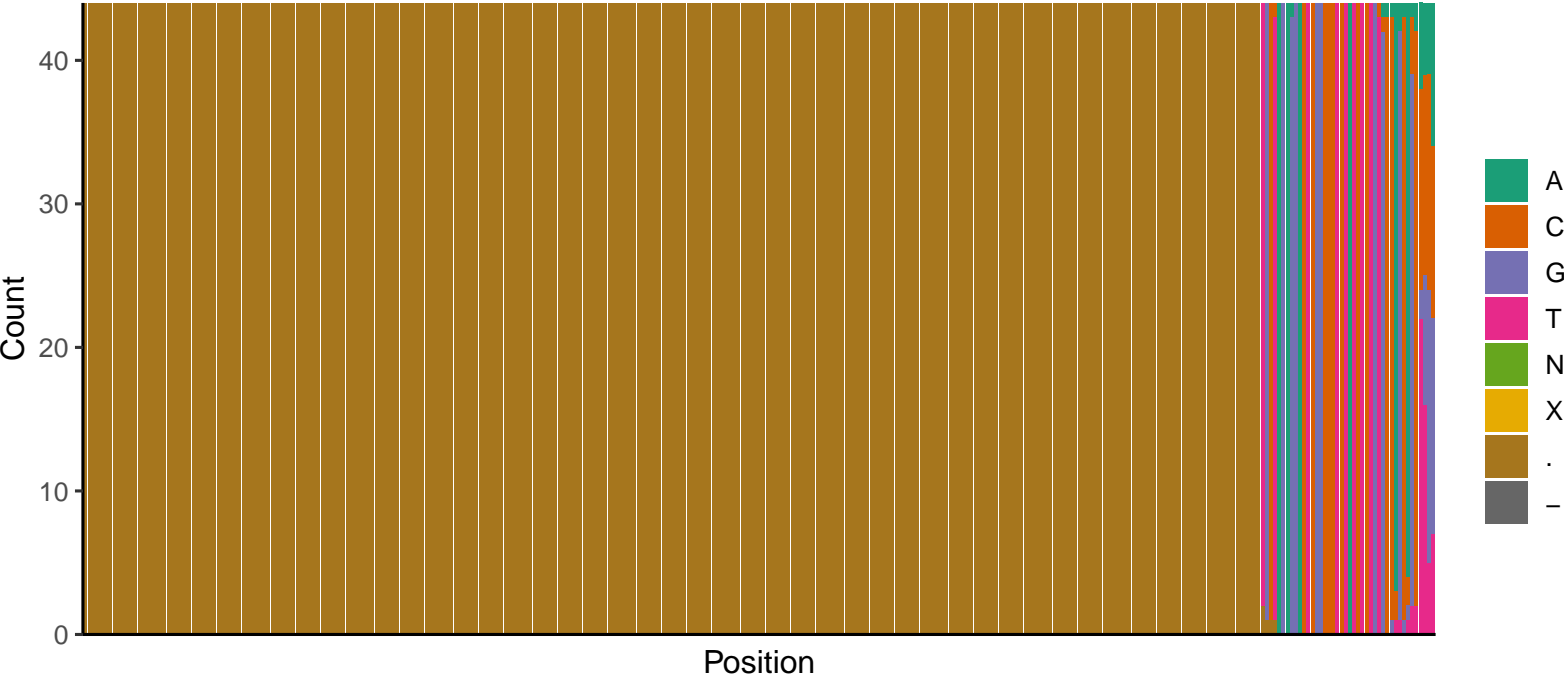
Gene TRBV6-8\*ap01\_A293G



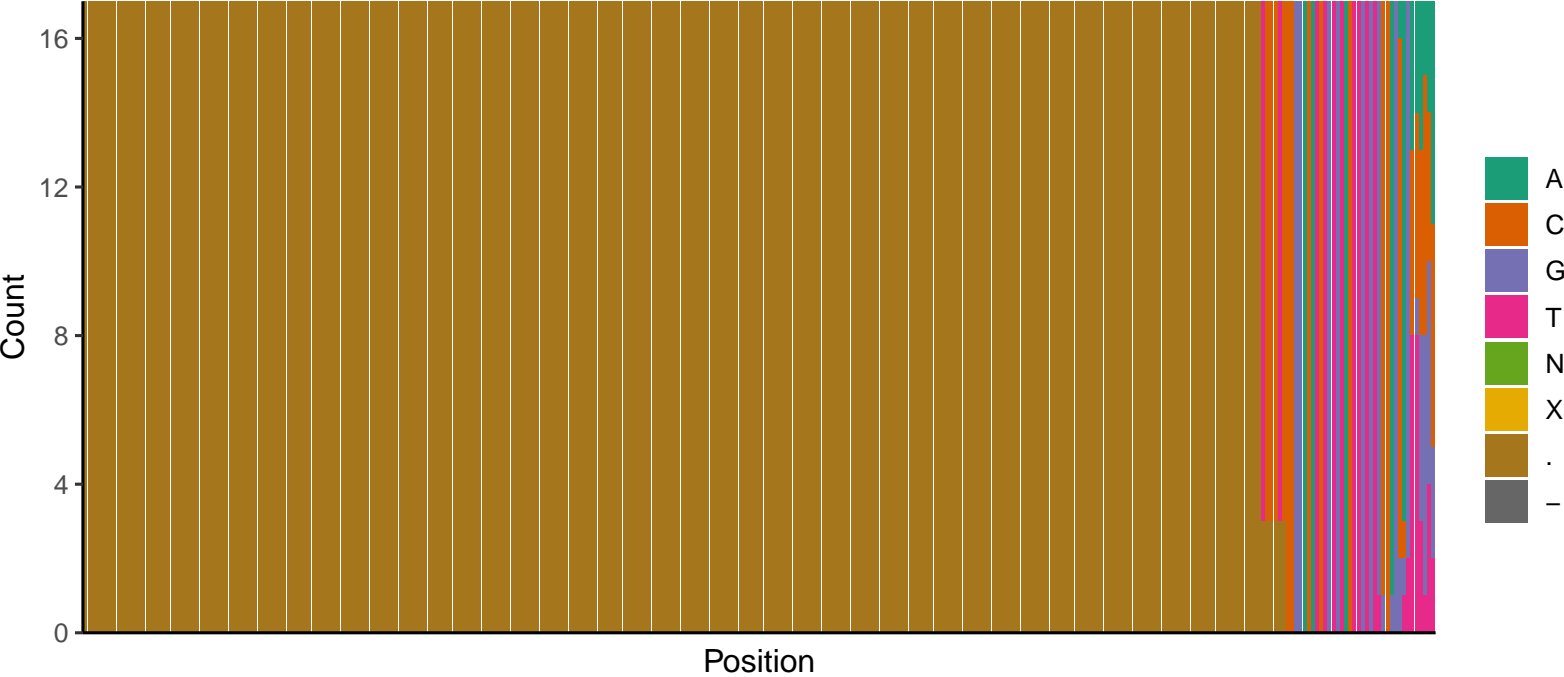
Gene TRBV7-1\*ap01\_G291C\_T296C



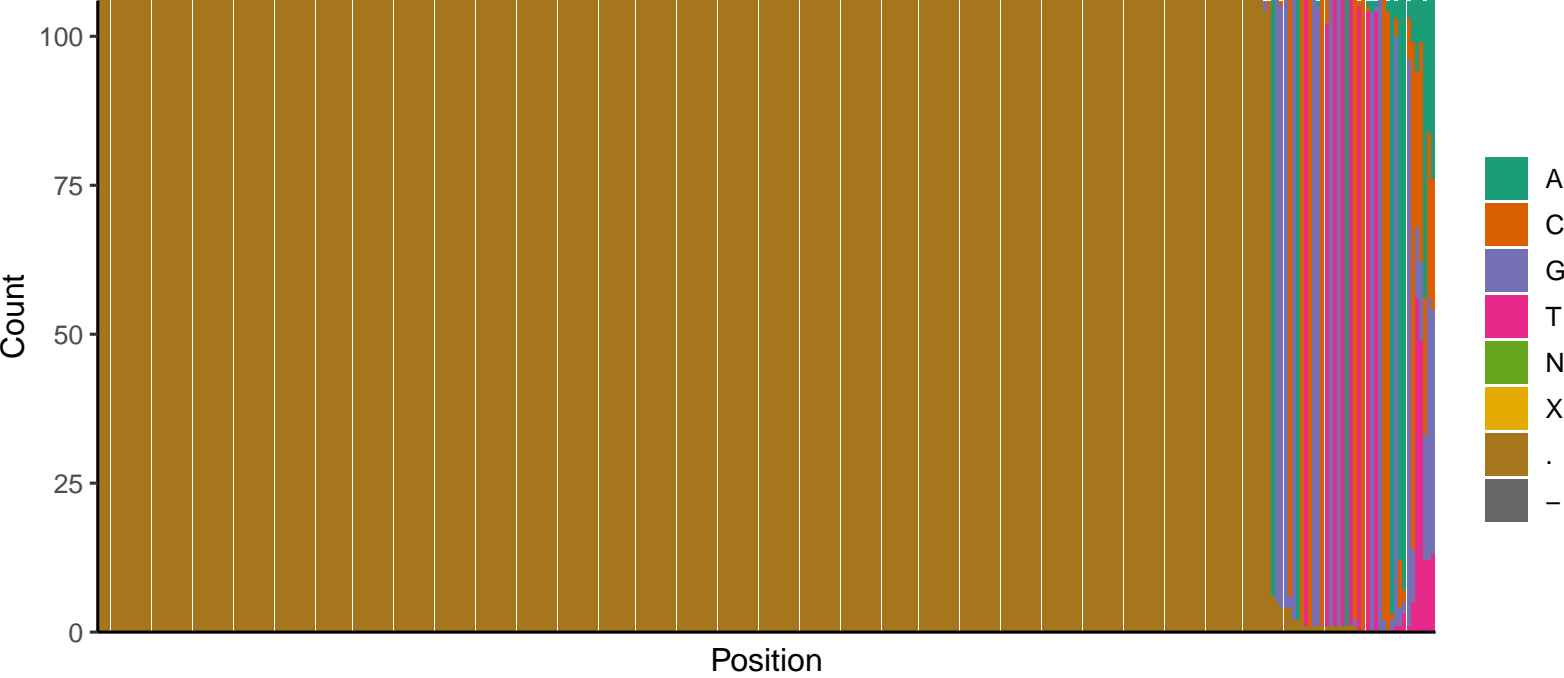
Gene TRBV5-7\*ap01\_G290A



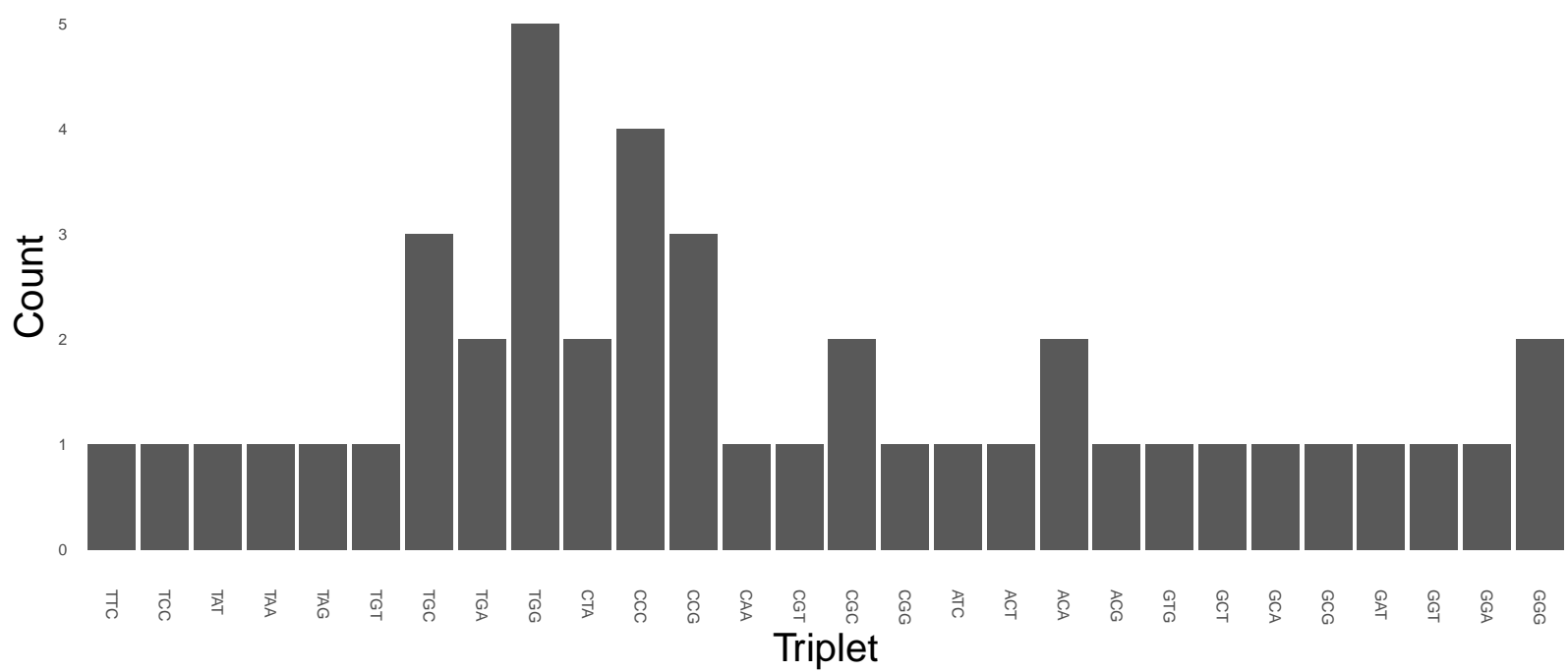
Gene TRBV6-8\*ap01\_A293G



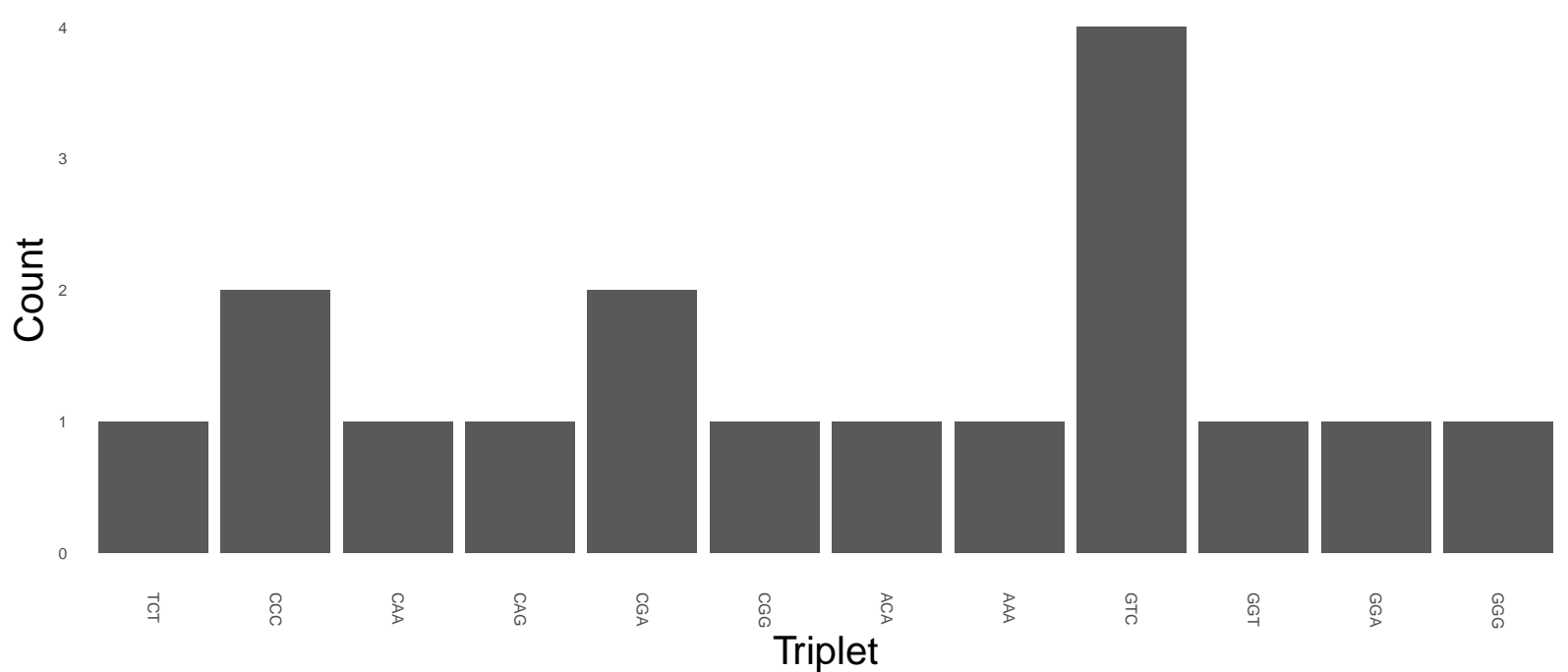
Gene TRBV7-1\*ap01\_G291C\_T296C



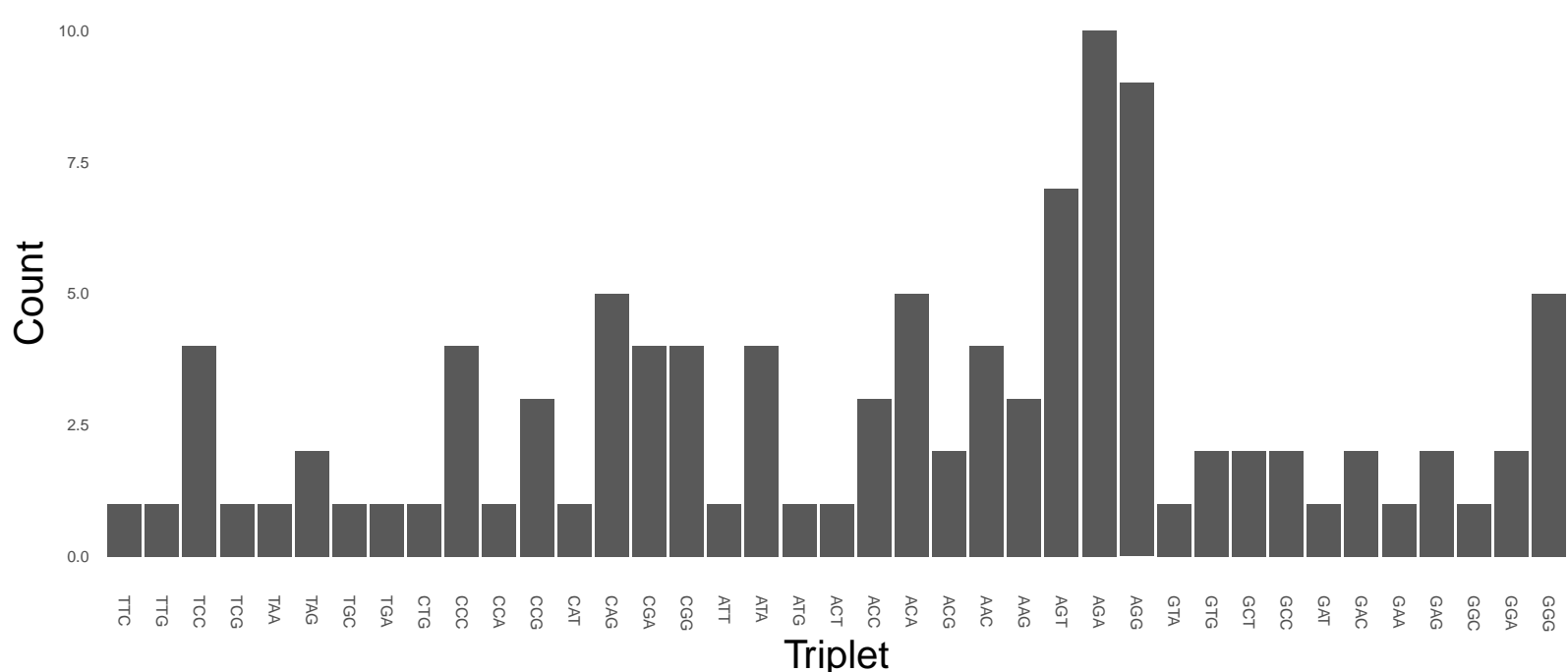
TRBV5-7\*ap01\_G290A- Final 3 nucleotides as a triplet



TRBV6-8\*ap01\_A293G- Final 3 nucleotides as a triplet

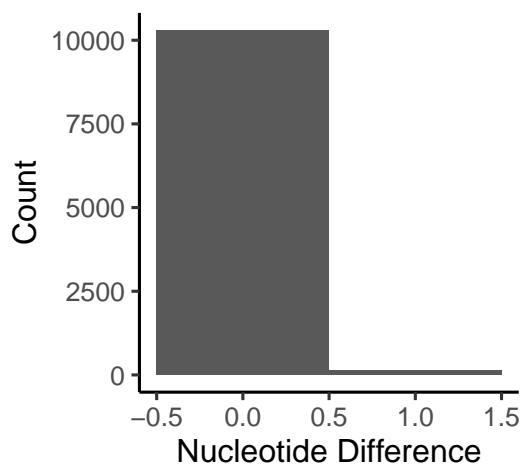


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



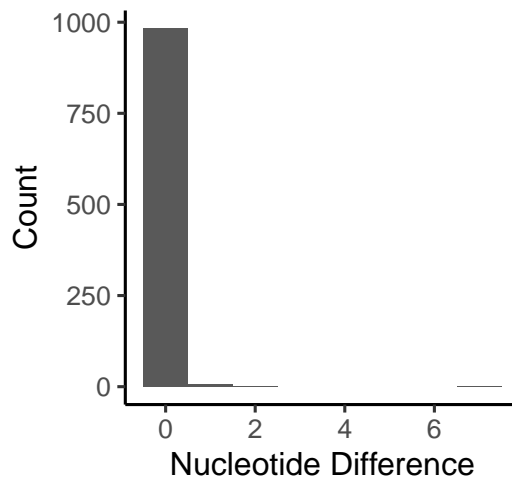
### TRBV20-1\*ap01

10431 sequences assigned  
10301 (98.8%) exact matches, in which:  
10144 unique CDR3  
13 unique J



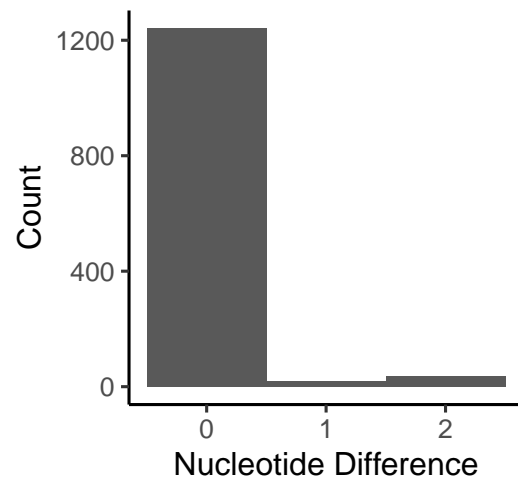
### TRBV10-2\*ap01

992 sequences assigned  
983 (99.1%) exact matches, in which:  
953 unique CDR3  
13 unique J



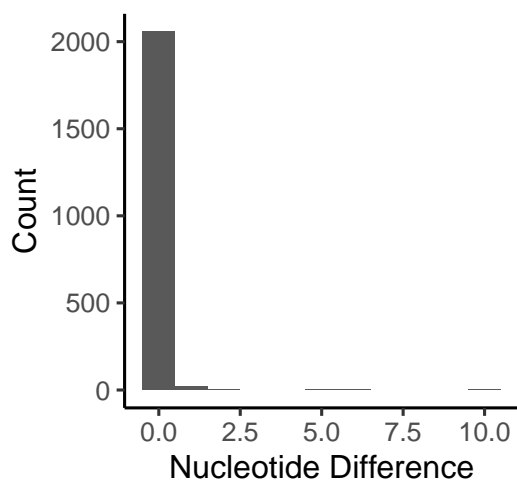
### TRBV13\*ap01

1296 sequences assigned  
1241 (95.8%) exact matches, in which:  
1220 unique CDR3  
13 unique J



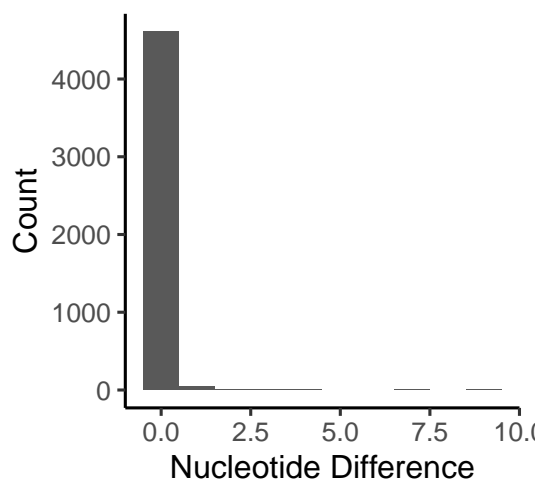
### TRBV10-1\*ap01

2081 sequences assigned  
2057 (98.8%) exact matches, in which:  
2015 unique CDR3  
13 unique J



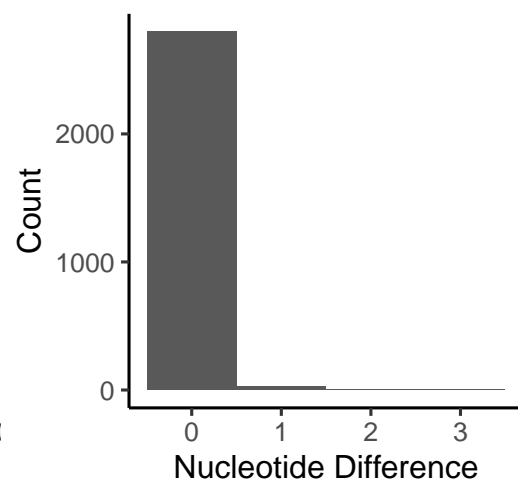
### TRBV10-3\*ap01

4667 sequences assigned  
4608 (98.7%) exact matches, in which:  
4523 unique CDR3  
13 unique J



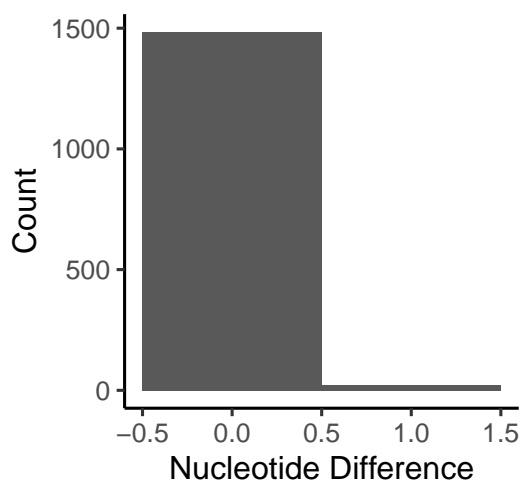
### TRBV14\*ap01

2826 sequences assigned  
2798 (99%) exact matches, in which:  
2741 unique CDR3  
13 unique J



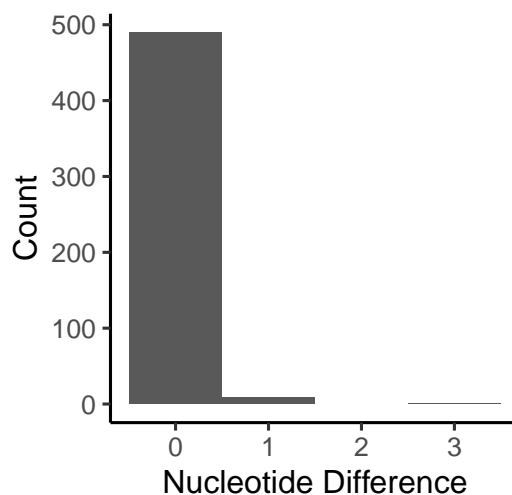
### TRBV20-1\*ap02

1505 sequences assigned  
1484 (98.6%) exact matches, in which:  
1464 unique CDR3  
13 unique J



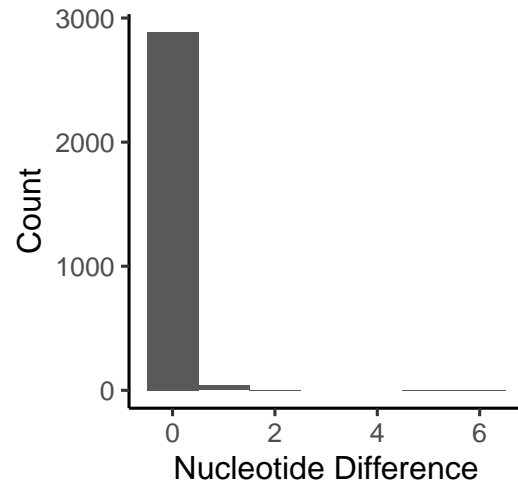
### TRBV1\*ap01

500 sequences assigned  
490 (98%) exact matches, in which:  
479 unique CDR3  
13 unique J



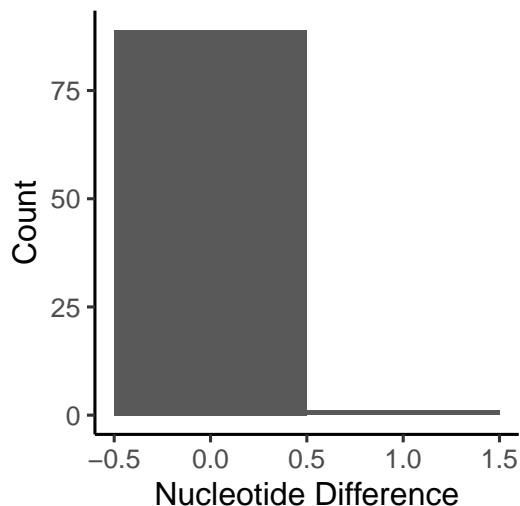
### TRBV15\*ap02

2930 sequences assigned  
2887 (98.5%) exact matches, in which:  
2825 unique CDR3  
14 unique J



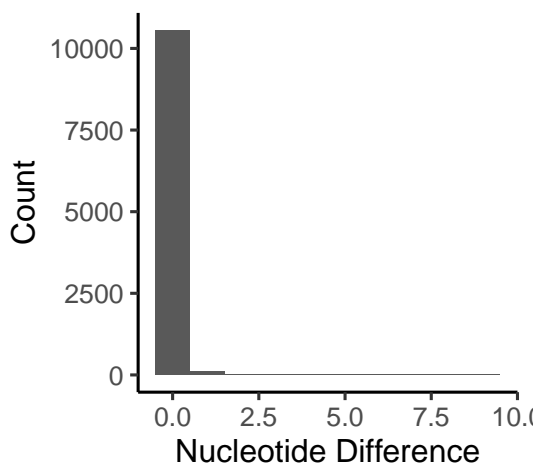
### TRBV16\*ap01

90 sequences assigned  
89 (98.9%) exact matches, in which:  
89 unique CDR3  
12 unique J



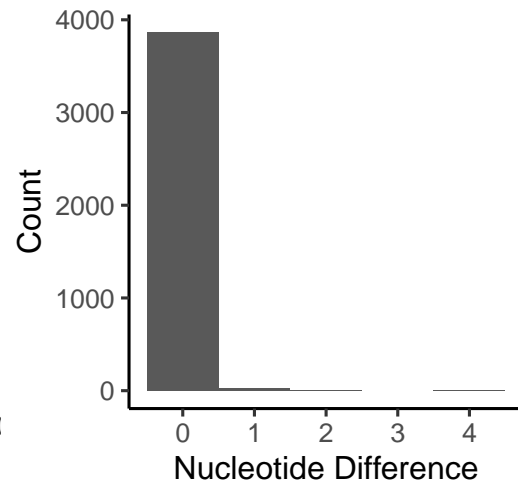
### TRBV19\*ap01

10673 sequences assigned  
10560 (98.9%) exact matches, in which:  
10464 unique CDR3  
13 unique J



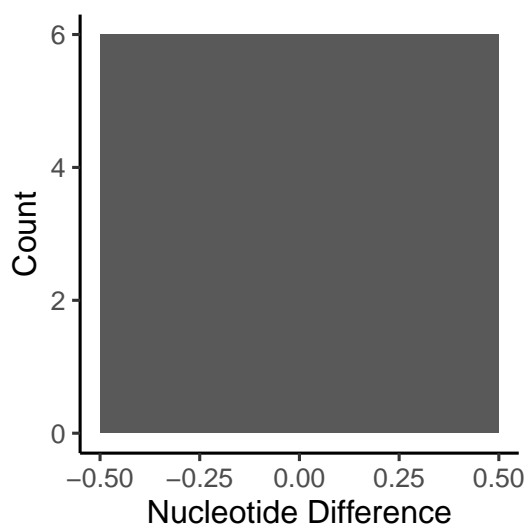
### TRBV28\*ap01

3897 sequences assigned  
3864 (99.2%) exact matches, in which:  
3793 unique CDR3  
13 unique J



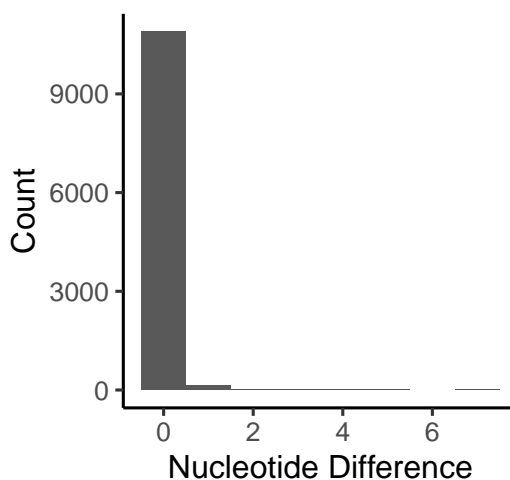
### TRBV17\*ap01

6 sequences assigned  
6 (100%) exact matches, in which:  
6 unique CDR3  
4 unique J



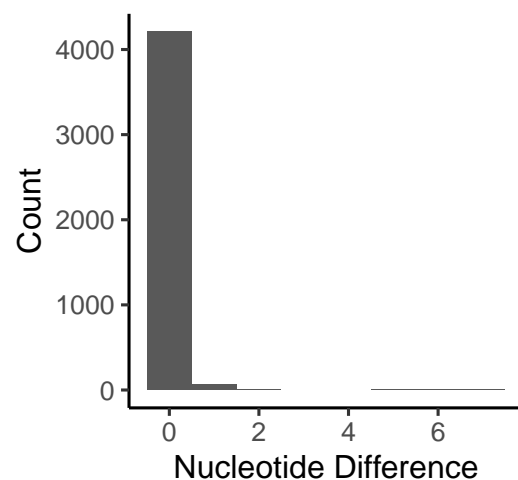
### TRBV2\*ap01

11026 sequences assigned  
10890 (98.8%) exact matches, in which:  
10667 unique CDR3  
13 unique J



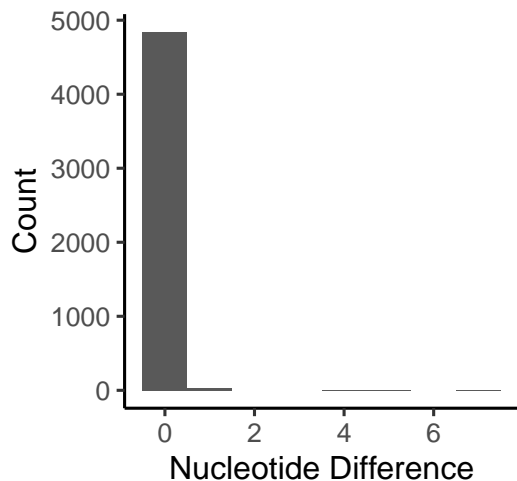
### TRBV30\*ap02

4288 sequences assigned  
4209 (98.2%) exact matches, in which:  
4141 unique CDR3  
13 unique J



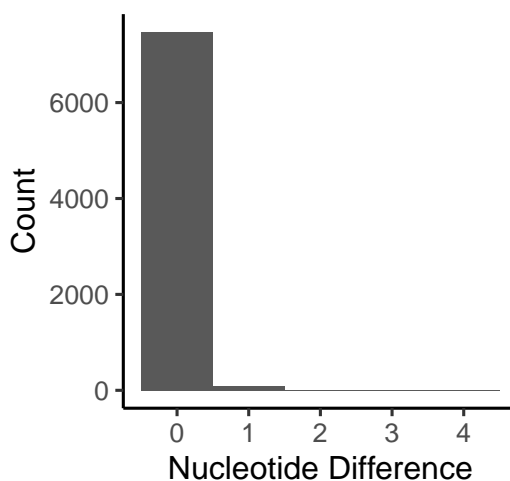
### TRBV18\*ap01

4875 sequences assigned  
4840 (99.3%) exact matches, in which:  
4798 unique CDR3  
13 unique J



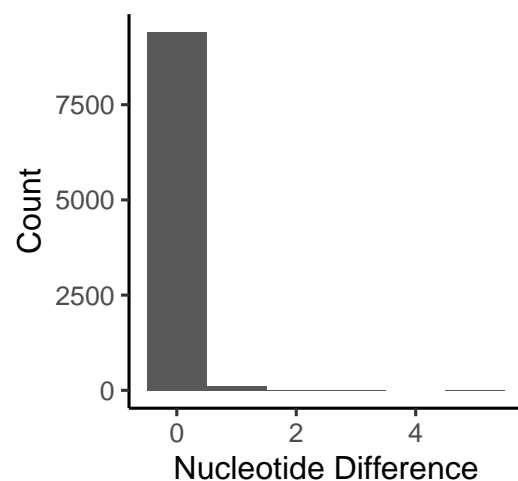
### TRBV27\*ap01

7569 sequences assigned  
7471 (98.7%) exact matches, in which:  
7302 unique CDR3  
13 unique J



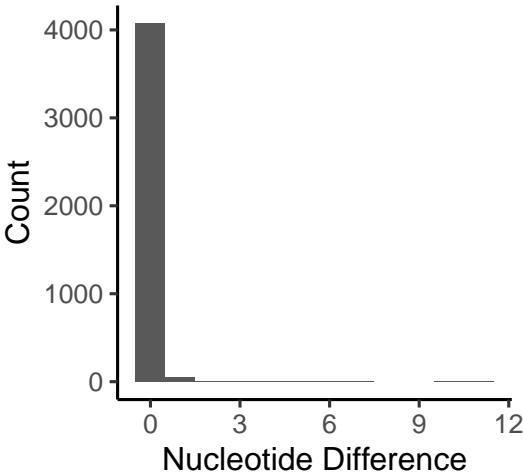
### TRBV9\*ap01

9522 sequences assigned  
9408 (98.8%) exact matches, in which:  
9277 unique CDR3  
13 unique J



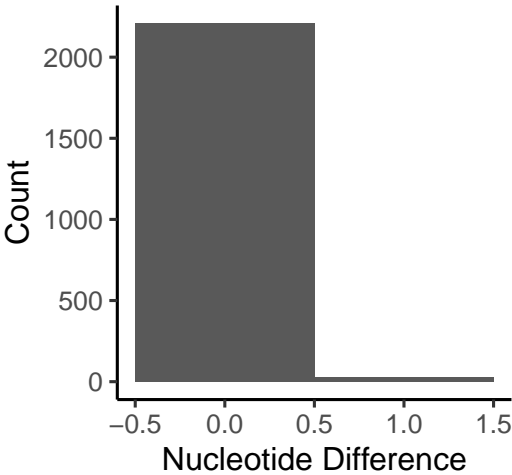
TRBV21-1\*ap01

4144 sequences assigned  
4074 (98.3%) exact matches, in which:  
4021 unique CDR3  
13 unique J



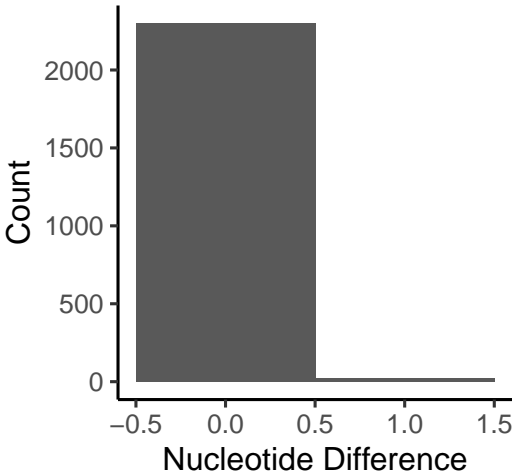
TRBV11-3\*ap01

2234 sequences assigned  
2208 (98.8%) exact matches, in which:  
2167 unique CDR3  
13 unique J



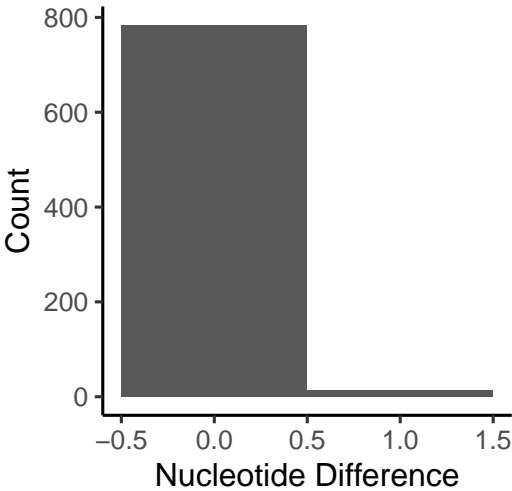
TRBV12-5\*ap01

2319 sequences assigned  
2299 (99.1%) exact matches, in which:  
2257 unique CDR3  
13 unique J



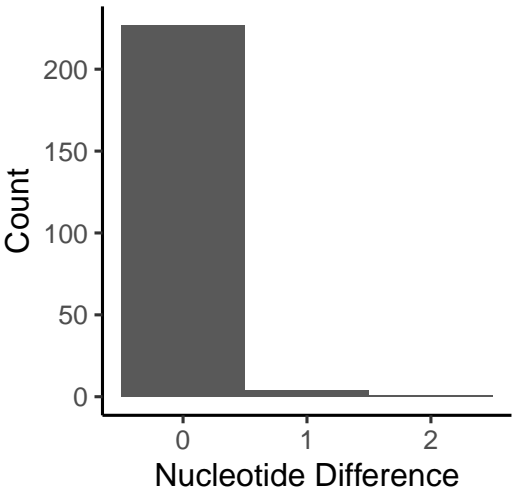
TRBV11-1\*ap01

797 sequences assigned  
784 (98.4%) exact matches, in which:  
763 unique CDR3  
13 unique J



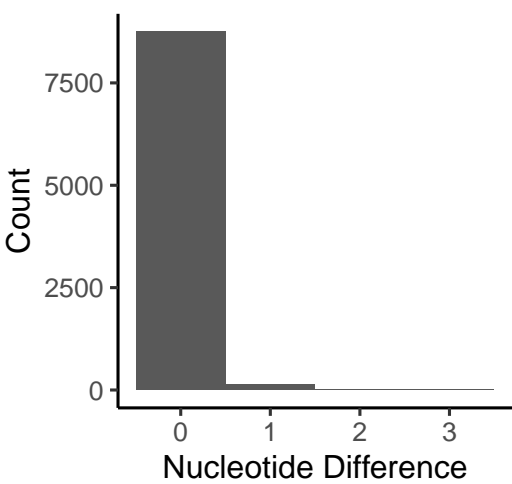
TRBV12-1\*ap01

232 sequences assigned  
227 (97.8%) exact matches, in which:  
224 unique CDR3  
13 unique J



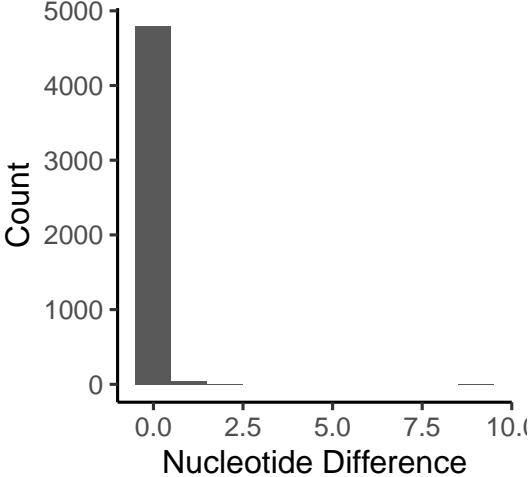
TRBV12-34\*ap01

8888 sequences assigned  
8750 (98.4%) exact matches, in which:  
8617 unique CDR3  
13 unique J



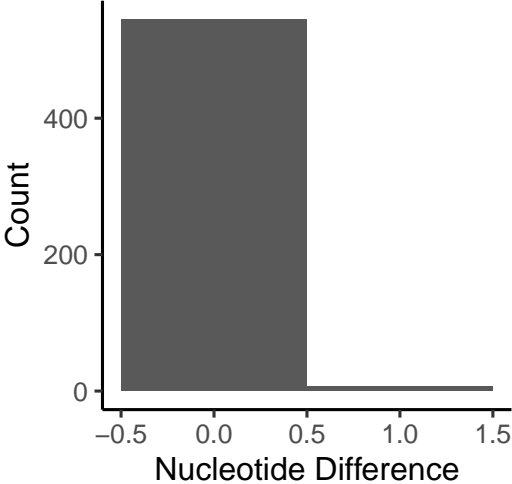
TRBV11-2\*ap01

4846 sequences assigned  
4796 (99%) exact matches, in which:  
4714 unique CDR3  
13 unique J



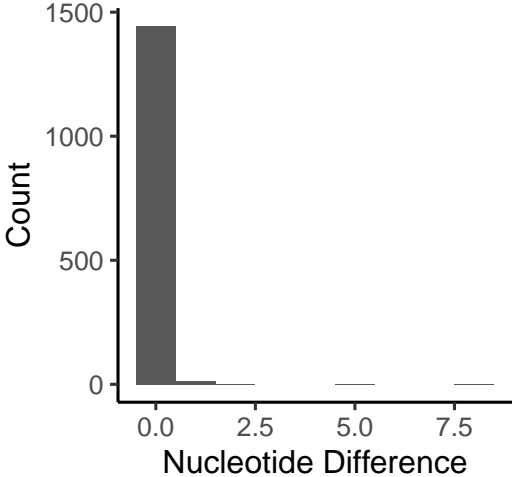
TRBV12-2\*ap01

552 sequences assigned  
545 (98.7%) exact matches, in which:  
537 unique CDR3  
13 unique J



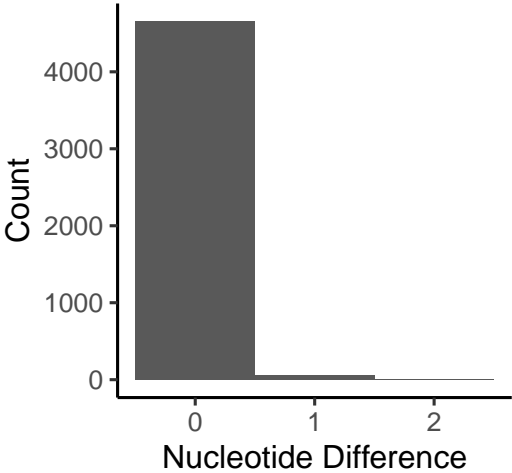
TRBV23-1\*ap01

1462 sequences assigned  
1444 (98.8%) exact matches, in which:  
1419 unique CDR3  
13 unique J



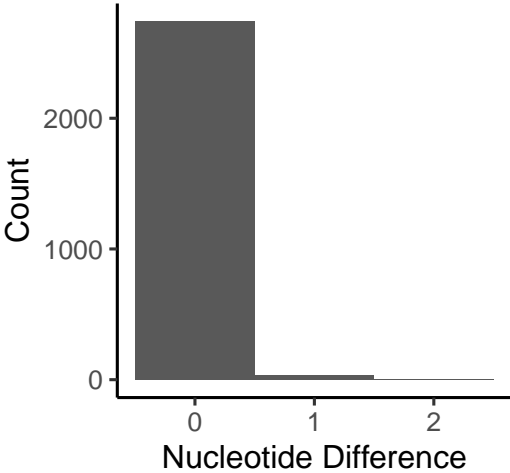
TRBV3-12\*ap01

4716 sequences assigned  
4655 (98.7%) exact matches, in which:  
4540 unique CDR3  
13 unique J



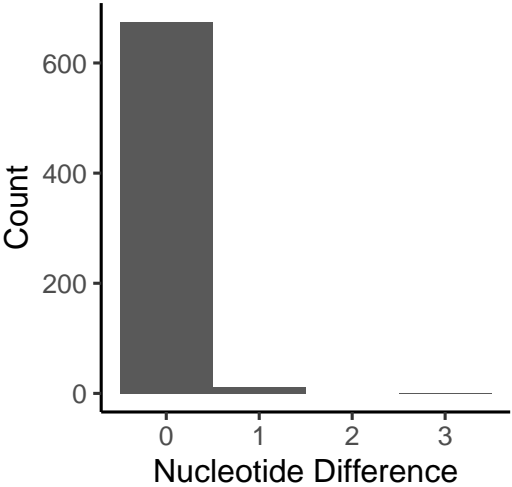
TRBV4-2\*ap01

2774 sequences assigned  
2741 (98.8%) exact matches, in which:  
2680 unique CDR3  
13 unique J



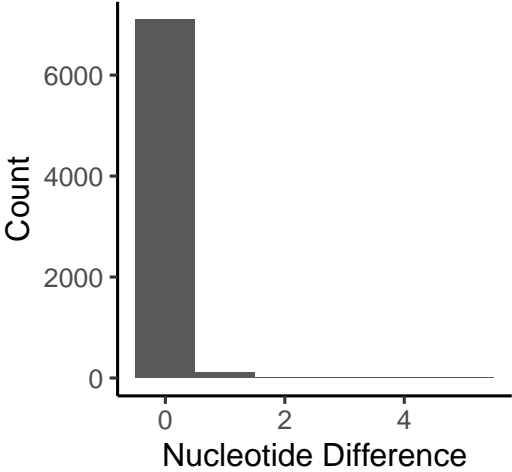
TRBV5-3\*ap01

688 sequences assigned  
675 (98.1%) exact matches, in which:  
663 unique CDR3  
13 unique J



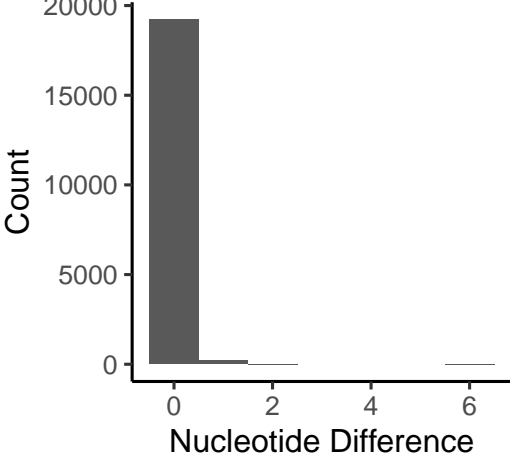
TRBV24-1\*ap01

7225 sequences assigned  
7097 (98.2%) exact matches, in which:  
6996 unique CDR3  
13 unique J



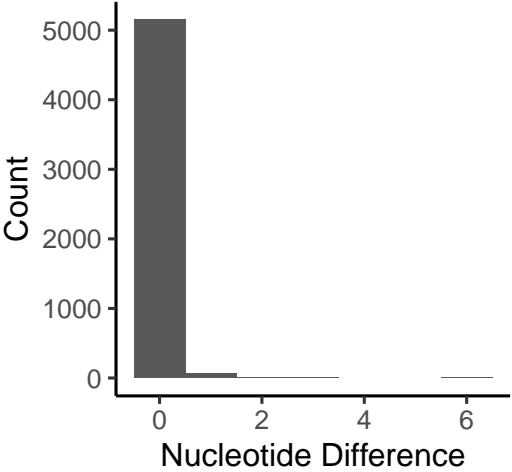
TRBV5-1\*ap01

19435 sequences assigned  
19224 (98.9%) exact matches, in which:  
18762 unique CDR3  
13 unique J



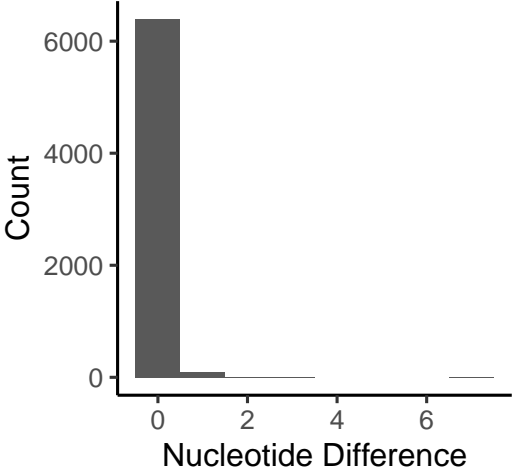
TRBV5-4\*ap01

5222 sequences assigned  
5150 (98.6%) exact matches, in which:  
5041 unique CDR3  
13 unique J



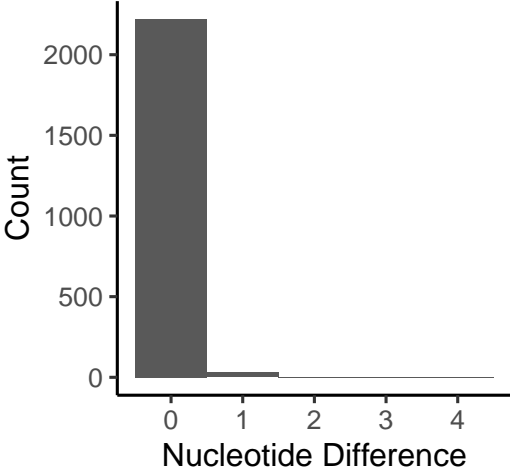
TRBV4-1\*ap01

6490 sequences assigned  
6395 (98.5%) exact matches, in which:  
6261 unique CDR3  
13 unique J



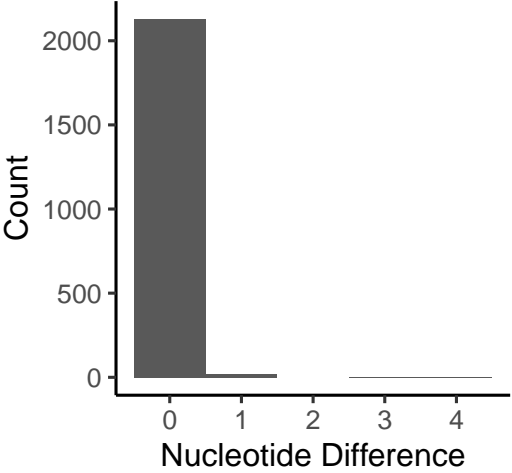
TRBV25-1\*ap01

2255 sequences assigned  
2221 (98.5%) exact matches, in which:  
2172 unique CDR3  
13 unique J



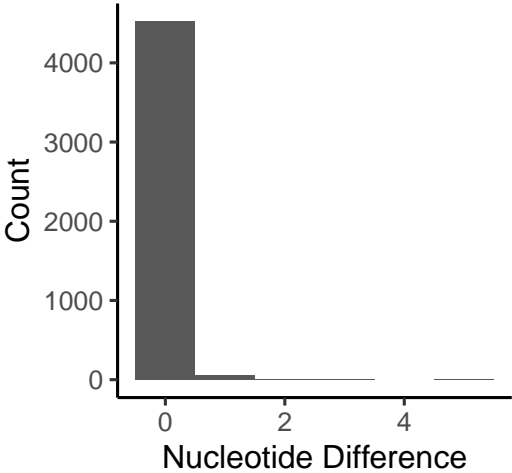
TRBV5-5\*ap01

2149 sequences assigned  
2129 (99.1%) exact matches, in which:  
2109 unique CDR3  
13 unique J



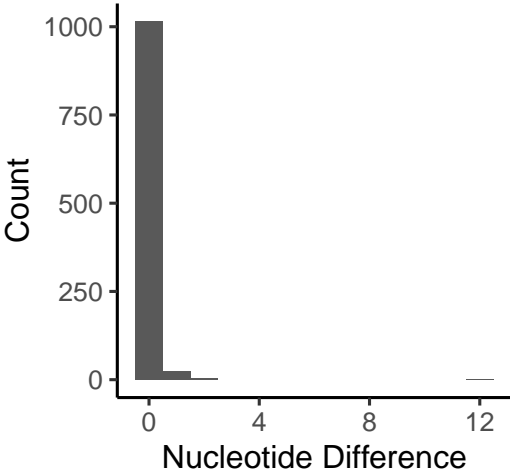
TRBV5-6\*ap01

4581 sequences assigned  
4523 (98.7%) exact matches, in which:  
4398 unique CDR3  
13 unique J



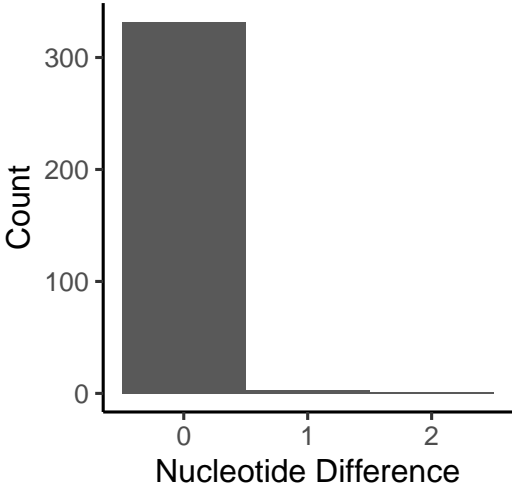
TRBV5-8\*ap01

1045 sequences assigned  
1015 (97.1%) exact matches, in which:  
1000 unique CDR3  
13 unique J



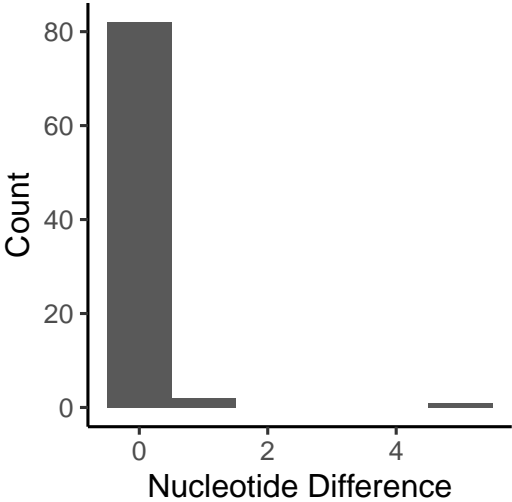
TRBV6-7\*ap01

336 sequences assigned  
332 (98.8%) exact matches, in which:  
327 unique CDR3  
13 unique J



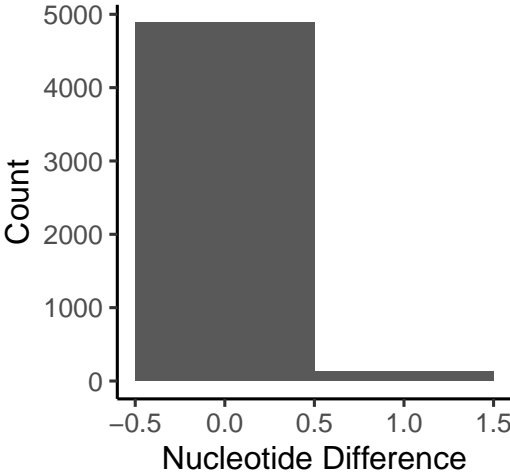
TRBV5-7\*ap01

85 sequences assigned  
82 (96.5%) exact matches, in which:  
81 unique CDR3  
13 unique J



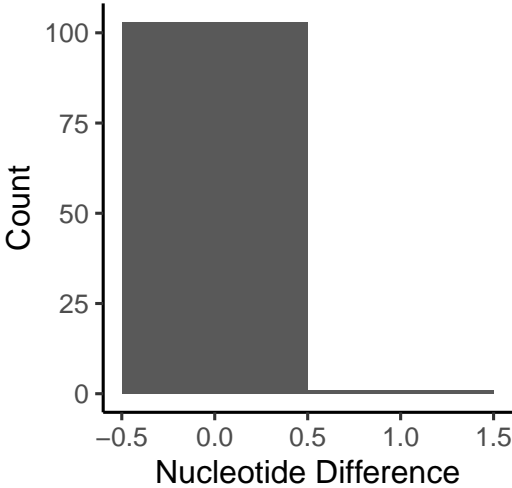
TRBV6-1\*ap01

5012 sequences assigned  
4885 (97.5%) exact matches, in which:  
4787 unique CDR3  
13 unique J



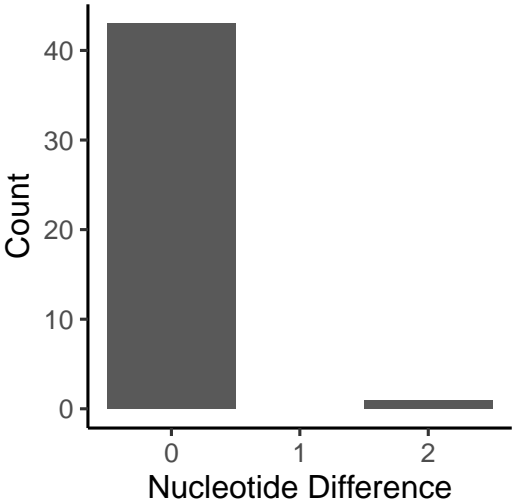
TRBV6-8\*ap01

104 sequences assigned  
103 (99%) exact matches, in which:  
102 unique CDR3  
13 unique J



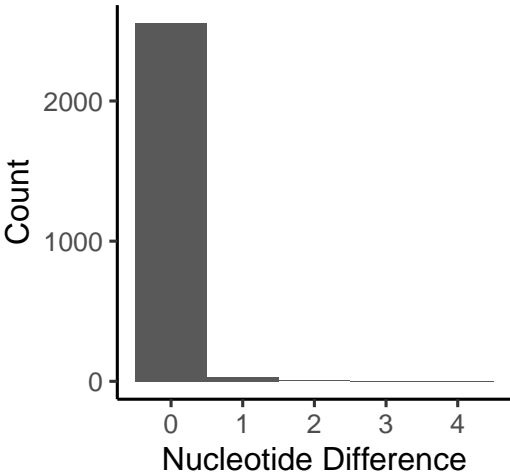
TRBV5-7\*ap01\_G290A

44 sequences assigned  
43 (97.7%) exact matches, in which:  
42 unique CDR3  
10 unique J



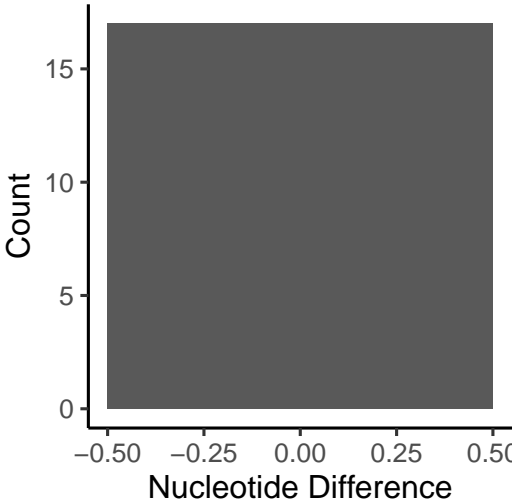
TRBV6-4\*ap01

2594 sequences assigned  
2556 (98.5%) exact matches, in which:  
2511 unique CDR3  
13 unique J



TRBV6-8\*ap01\_A293G

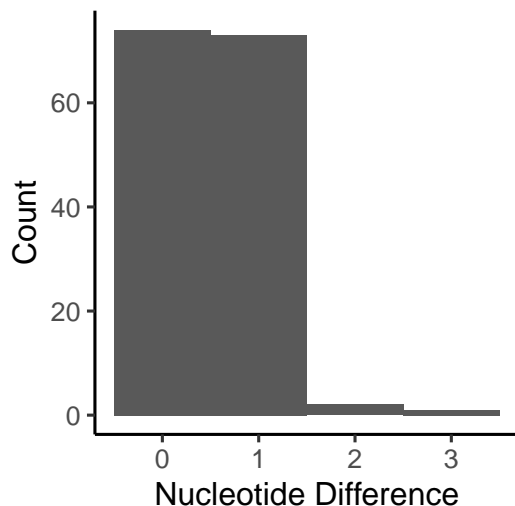
17 sequences assigned  
17 (100%) exact matches, in which:  
17 unique CDR3  
8 unique J





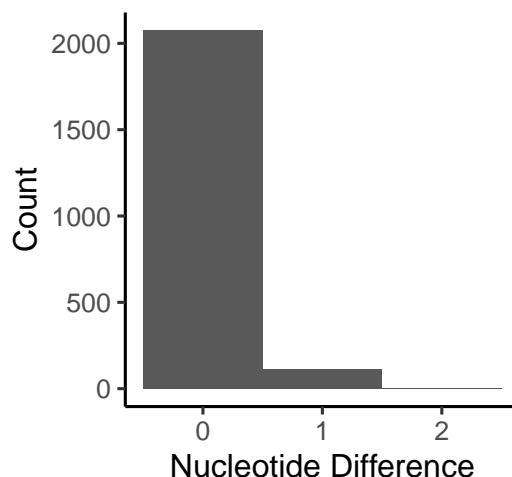
### TRBV6-9\*ap01

150 sequences assigned  
74 (49.3%) exact matches, in which:  
71 unique CDR3  
11 unique J



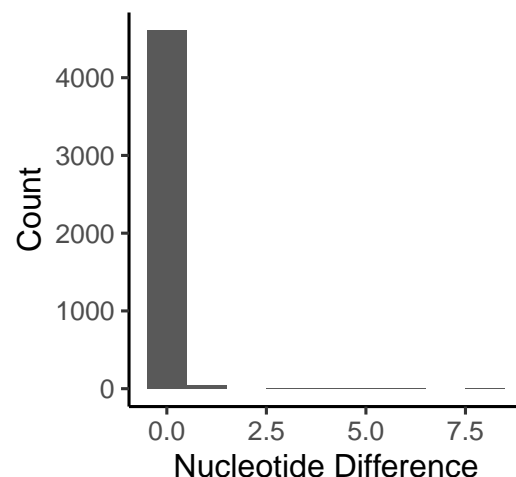
### TRBV6-56\*ap02

2192 sequences assigned  
2075 (94.7%) exact matches, in which:  
2021 unique CDR3  
13 unique J



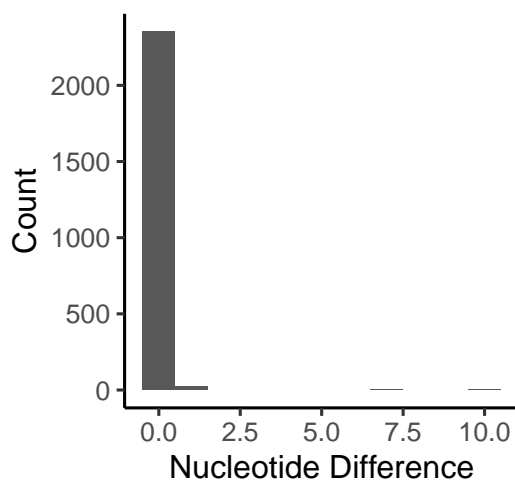
### TRBV7-3\*ap01

4666 sequences assigned  
4608 (98.8%) exact matches, in which:  
4540 unique CDR3  
13 unique J



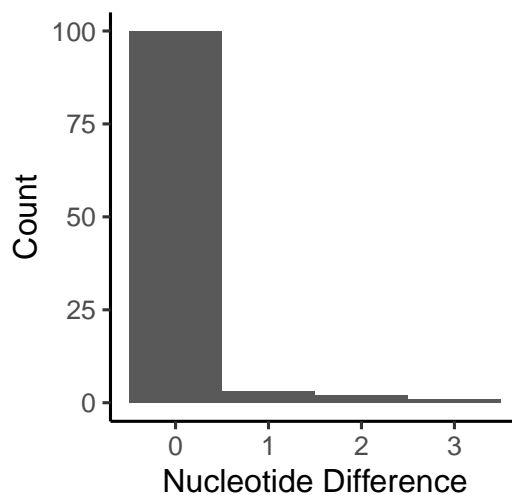
### TRBV6-23\*ap01

2376 sequences assigned  
2352 (99%) exact matches, in which:  
2306 unique CDR3  
13 unique J



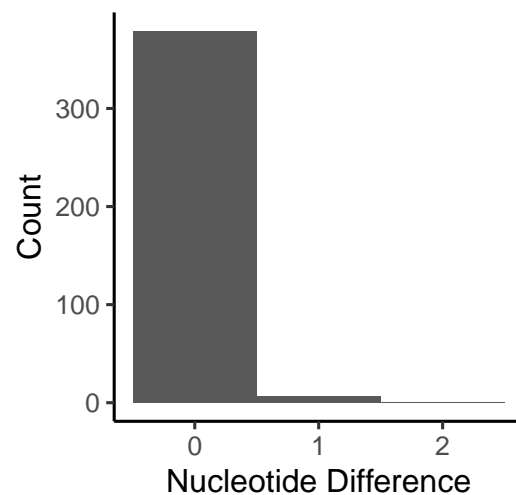
### TRBV7-1\*ap01\_G291C\_

106 sequences assigned  
100 (94.3%) exact matches, in which:  
99 unique CDR3  
13 unique J



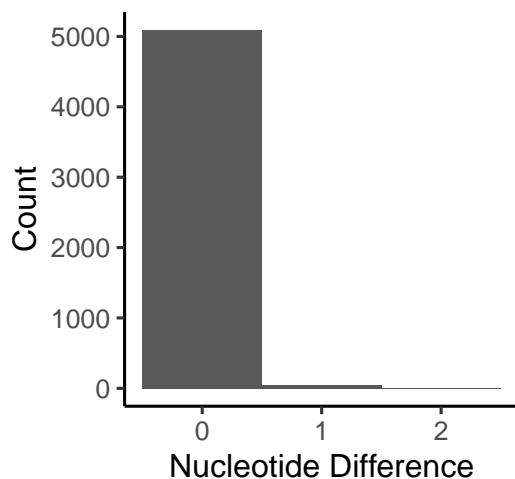
### TRBV7-4\*ap01

387 sequences assigned  
379 (97.9%) exact matches, in which:  
368 unique CDR3  
13 unique J



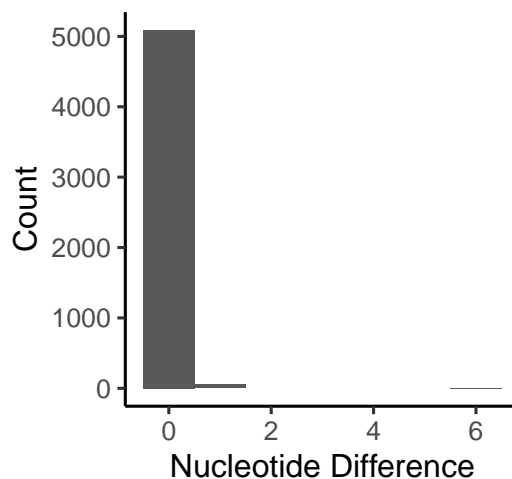
### TRBV6-56\*ap01

5139 sequences assigned  
5091 (99.1%) exact matches, in which:  
4968 unique CDR3  
13 unique J



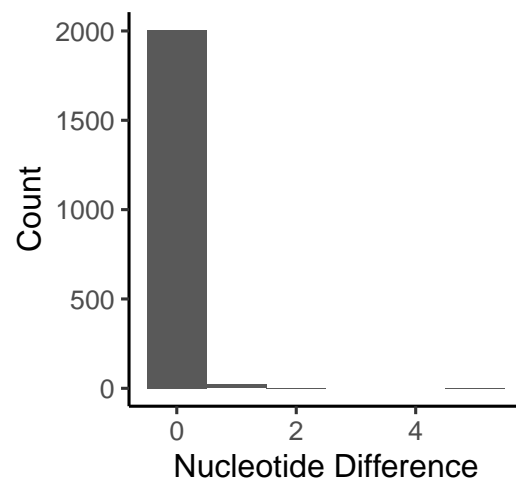
### TRBV7-2\*ap01

5143 sequences assigned  
5090 (99%) exact matches, in which:  
5017 unique CDR3  
13 unique J



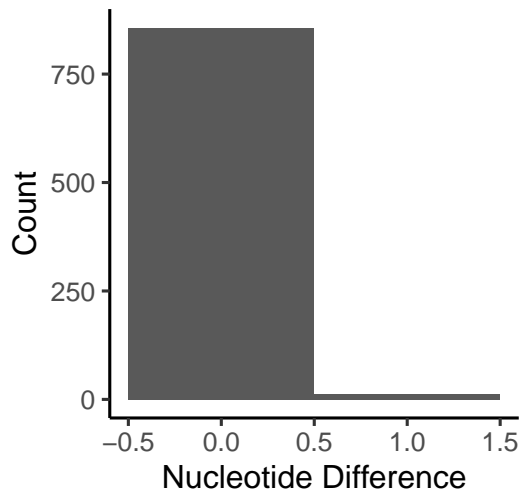
### TRBV7-6\*ap01

2028 sequences assigned  
2005 (98.9%) exact matches, in which:  
1969 unique CDR3  
13 unique J



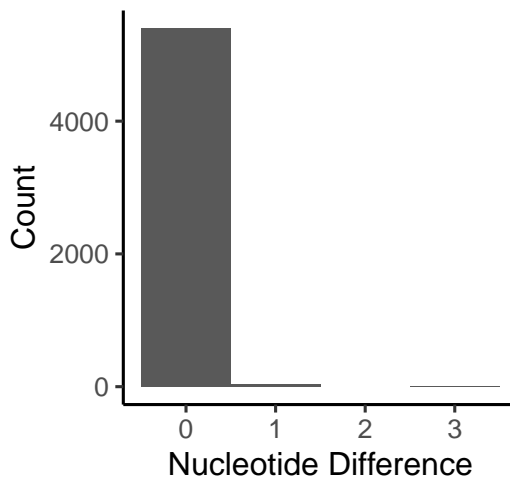
### TRBV7-7\*ap01

869 sequences assigned  
857 (98.6%) exact matches, in which:  
847 unique CDR3  
13 unique J



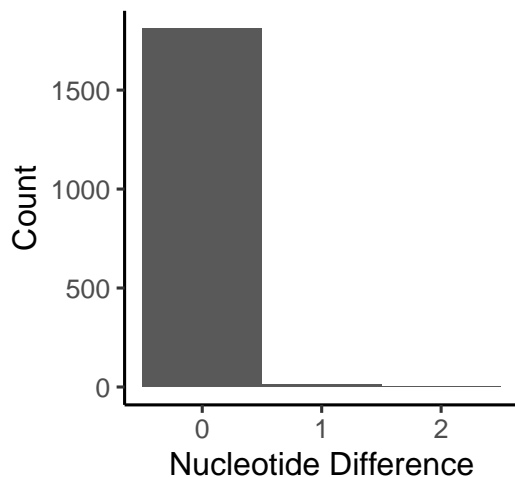
### TRBV7-9\*ap01

5441 sequences assigned  
5397 (99.2%) exact matches, in which:  
5308 unique CDR3  
13 unique J



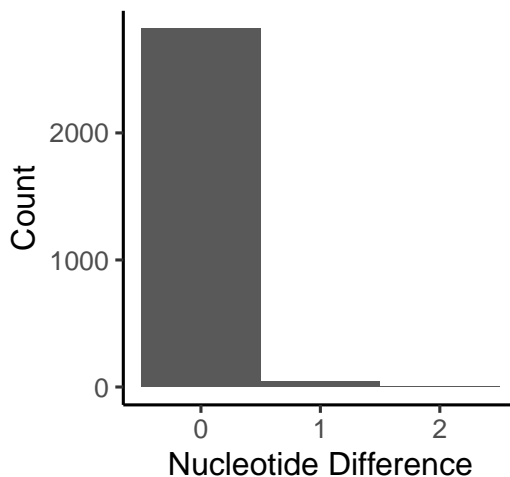
### TRBV7-8\*ap01

1826 sequences assigned  
1810 (99.1%) exact matches, in which:  
1781 unique CDR3  
13 unique J



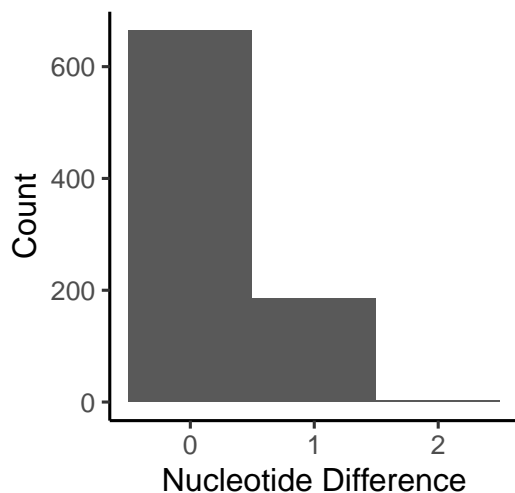
### TRBV29-1\*ap01

2864 sequences assigned  
2820 (98.5%) exact matches, in which:  
2771 unique CDR3  
13 unique J



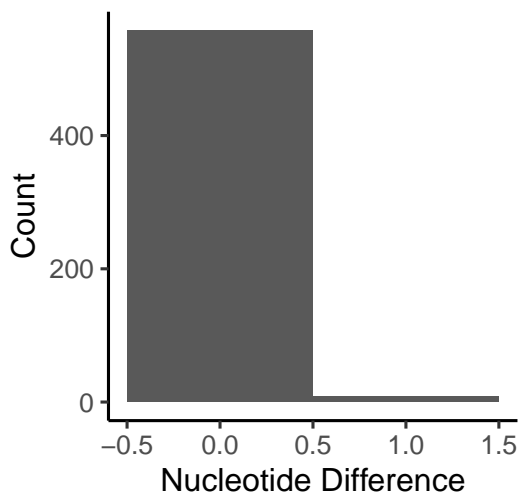
### TRBV7-8\*ap03

853 sequences assigned  
665 (78%) exact matches, in which:  
644 unique CDR3  
13 unique J

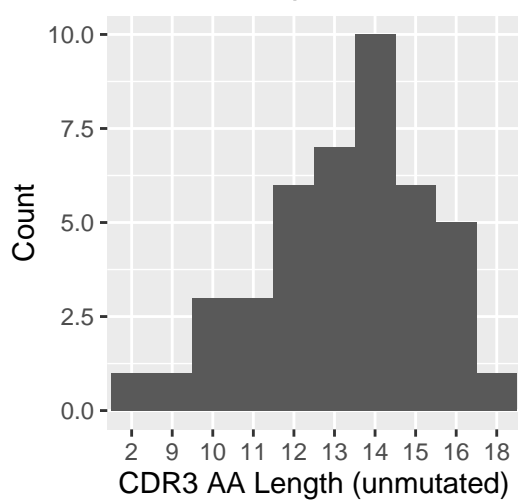


### TRBV29-1\*ap02

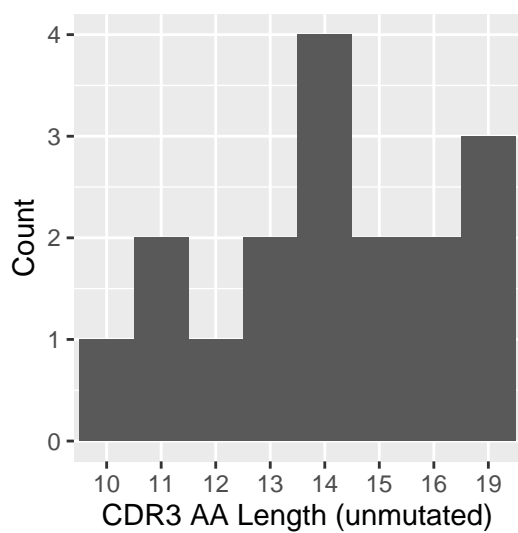
567 sequences assigned  
558 (98.4%) exact matches, in which:  
543 unique CDR3  
13 unique J



TRBV5-7\*ap01\_G290A



TRBV6-8\*ap01\_A293G



TRBV7-1\*ap01\_G291C\_T296C

