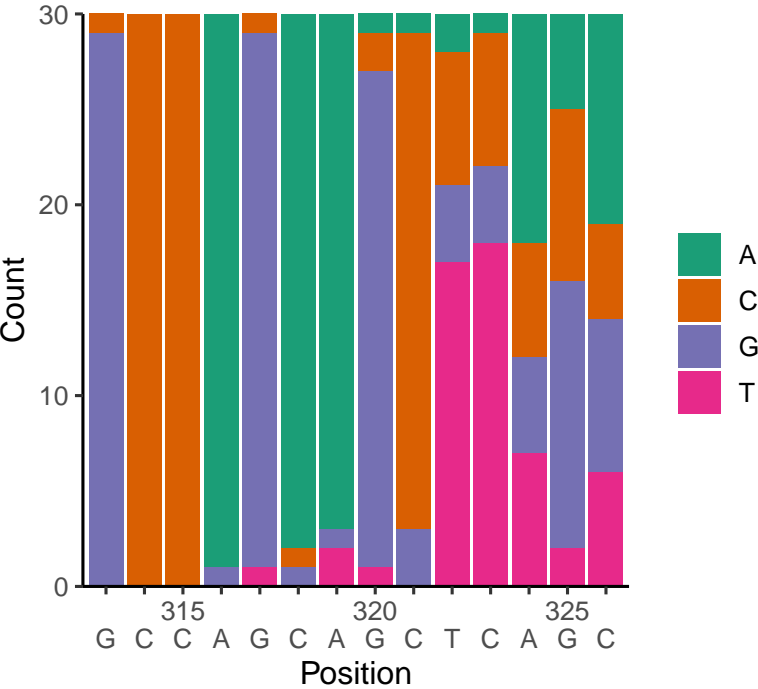
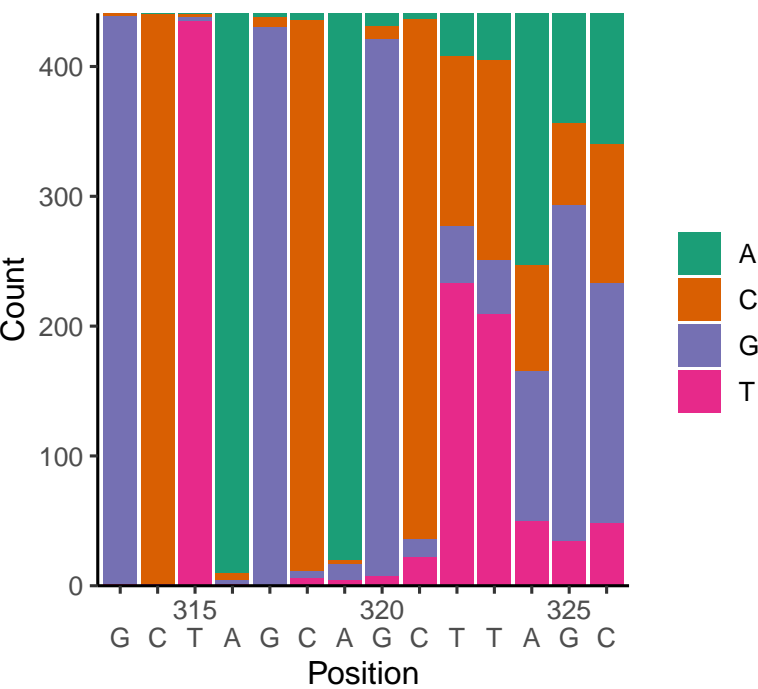


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



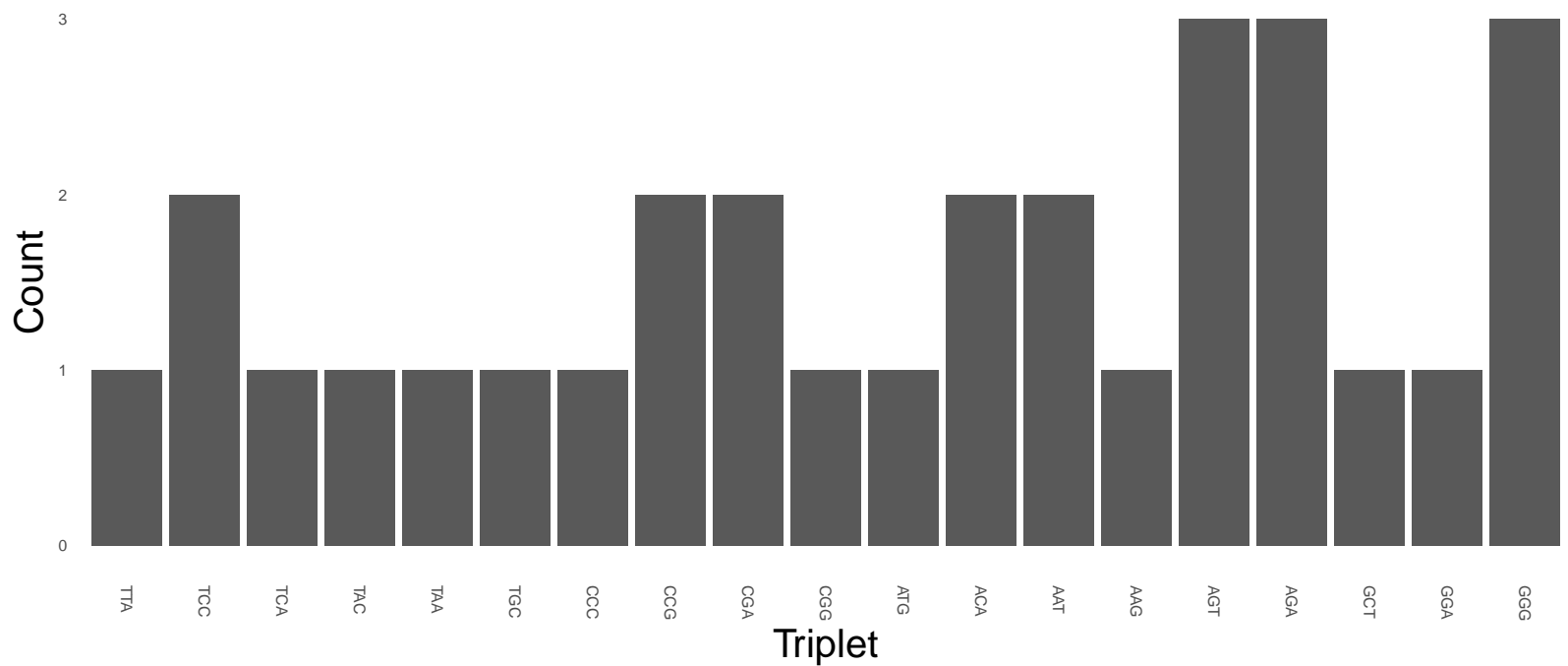
Gene TRBV7-1\*ap01\_G291C\_T296C



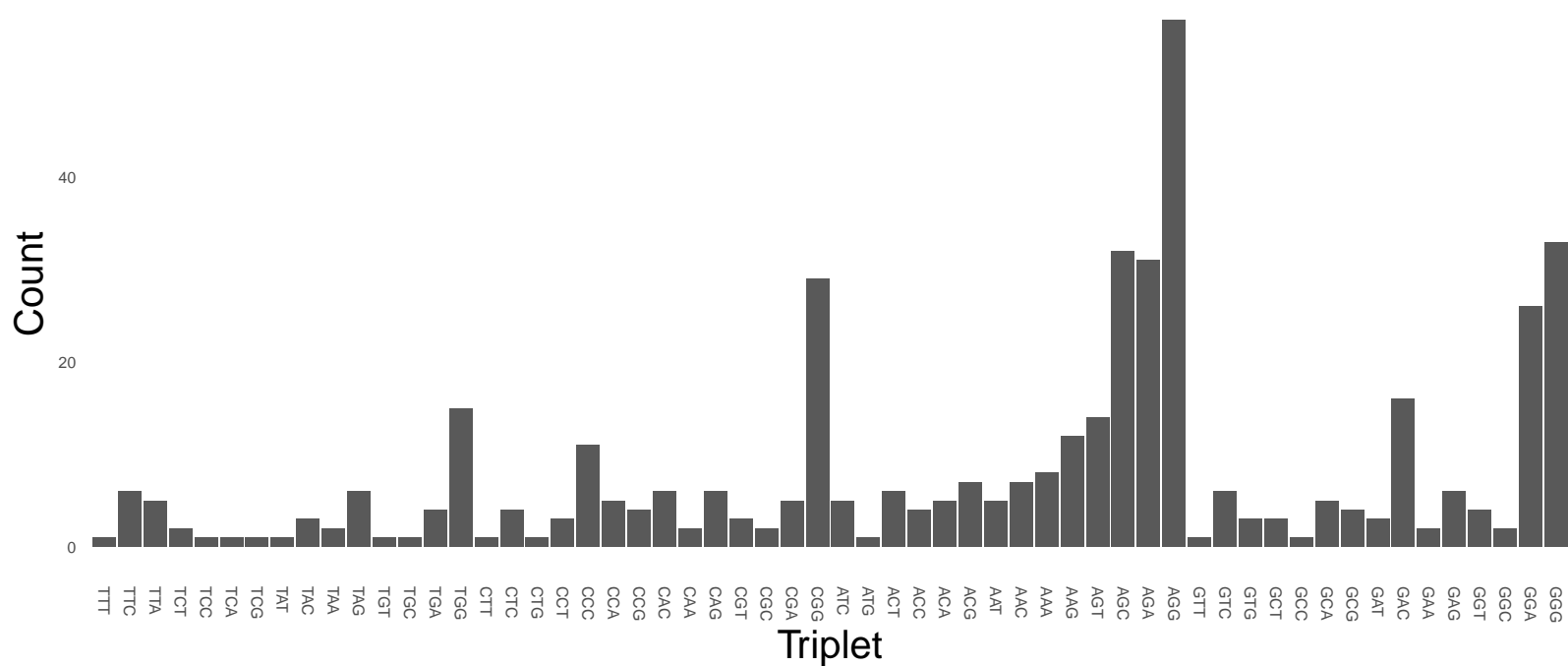
Gene TRBV7-7\*ap01\_C315T



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

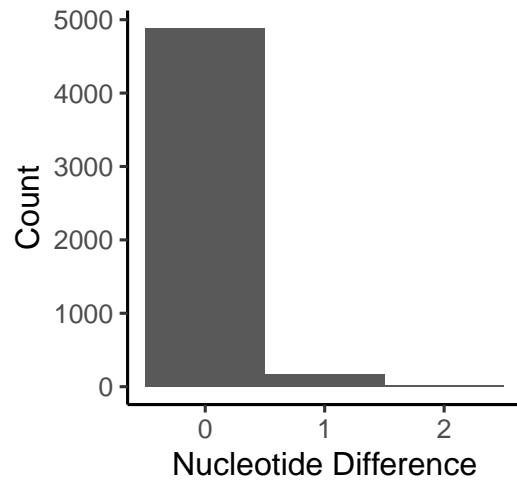


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



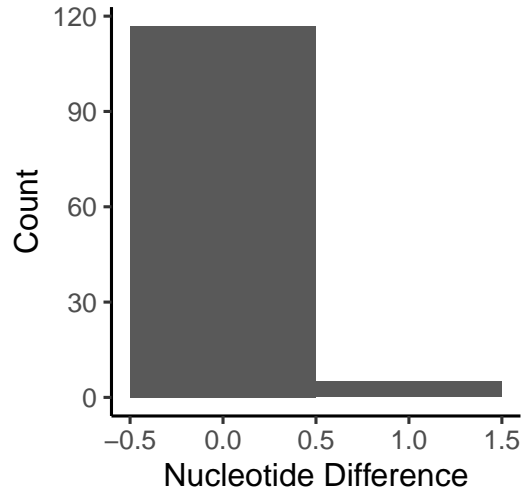
### TRBV20-1\*ap01

5064 sequences assigned  
4881 (96.4%) exact matches, in which:  
4739 unique CDR3  
13 unique J



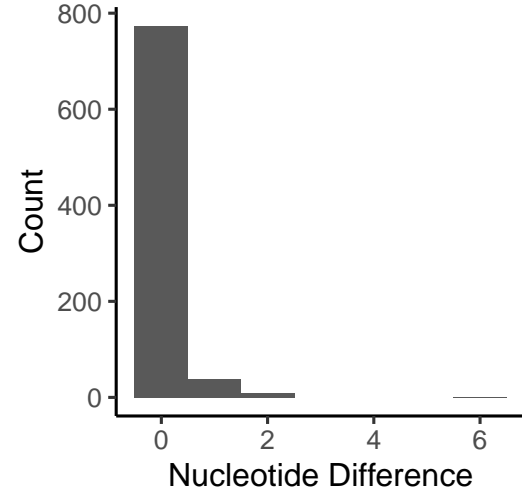
### TRBV10-2\*ap01

122 sequences assigned  
117 (95.9%) exact matches, in which:  
114 unique CDR3  
12 unique J



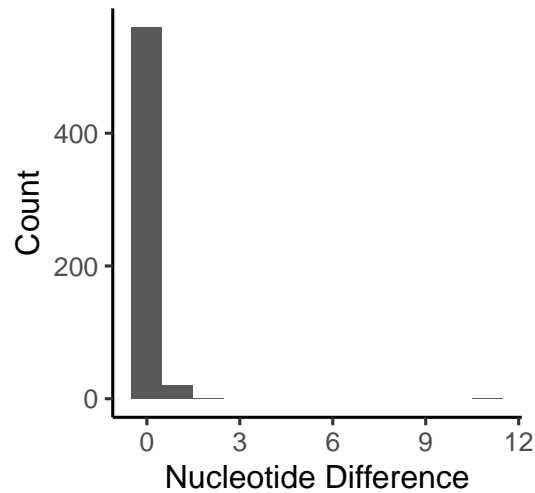
### TRBV13\*ap01

822 sequences assigned  
774 (94.2%) exact matches, in which:  
756 unique CDR3  
13 unique J



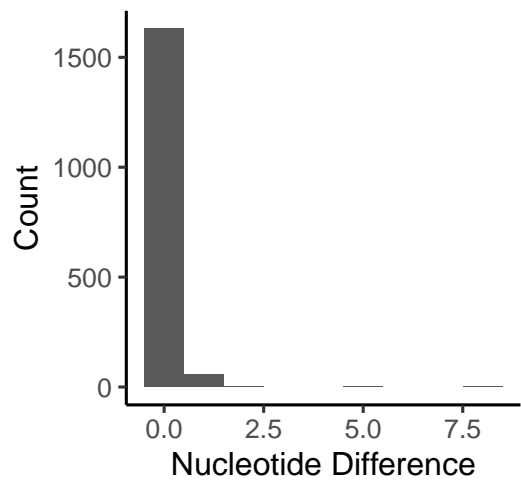
### TRBV10-1\*ap01

582 sequences assigned  
560 (96.2%) exact matches, in which:  
547 unique CDR3  
13 unique J



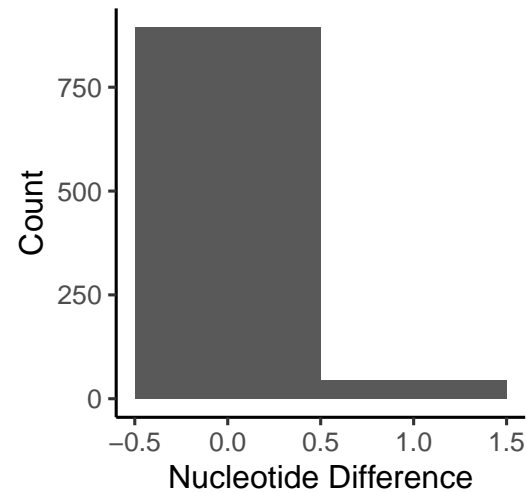
### TRBV10-3\*ap01

1693 sequences assigned  
1630 (96.3%) exact matches, in which:  
1579 unique CDR3  
13 unique J



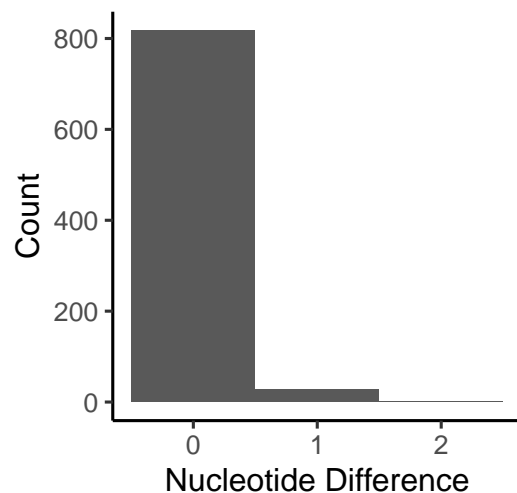
### TRBV14\*ap01

939 sequences assigned  
895 (95.3%) exact matches, in which:  
861 unique CDR3  
13 unique J



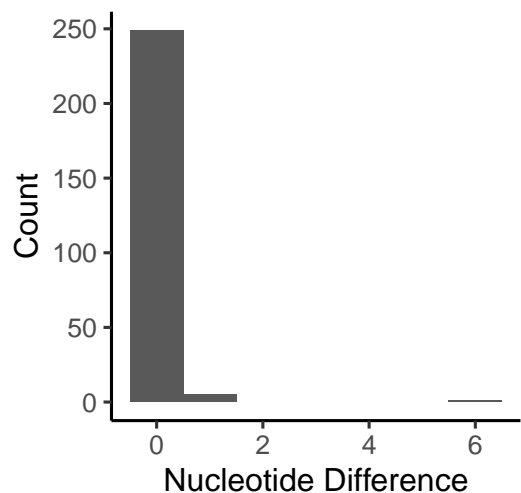
### TRBV20-1\*ap02

848 sequences assigned  
818 (96.5%) exact matches, in which:  
780 unique CDR3  
13 unique J



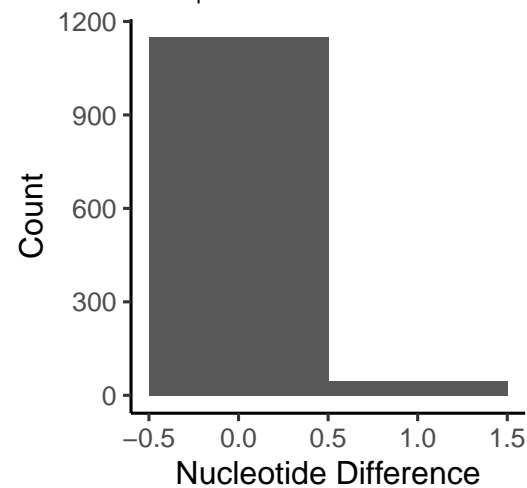
### TRBV1\*ap01

255 sequences assigned  
249 (97.6%) exact matches, in which:  
243 unique CDR3  
13 unique J



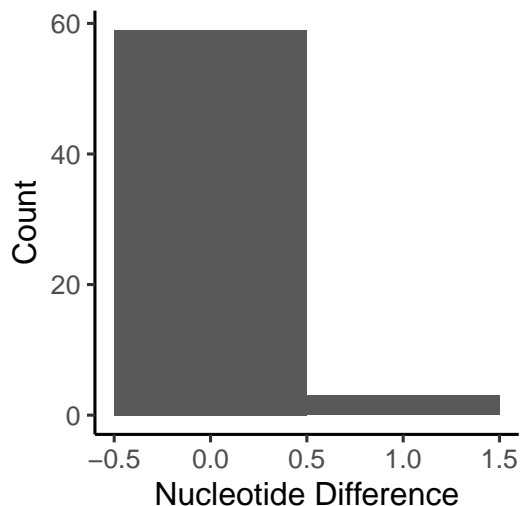
### TRBV15\*ap02

1196 sequences assigned  
1150 (96.2%) exact matches, in which:  
1119 unique CDR3  
13 unique J



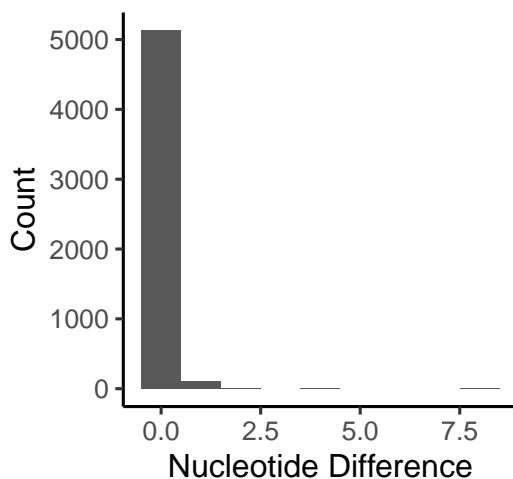
### TRBV16\*ap01

62 sequences assigned  
59 (95.2%) exact matches, in which:  
58 unique CDR3  
12 unique J



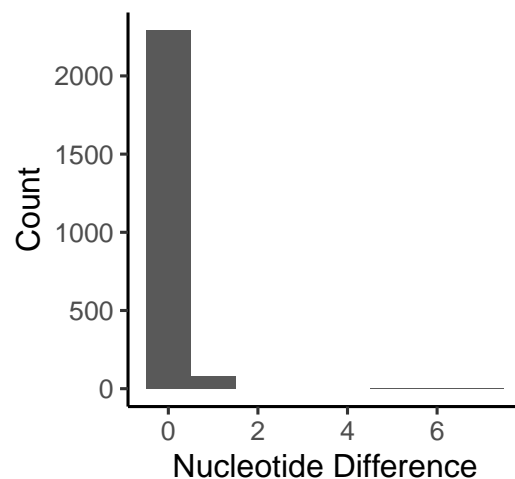
### TRBV19\*ap01

5251 sequences assigned  
5131 (97.7%) exact matches, in which:  
5007 unique CDR3  
13 unique J



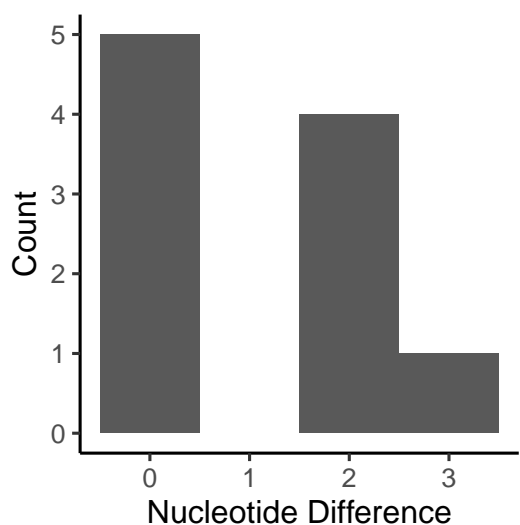
### TRBV27\*ap01

2378 sequences assigned  
2291 (96.3%) exact matches, in which:  
2218 unique CDR3  
13 unique J



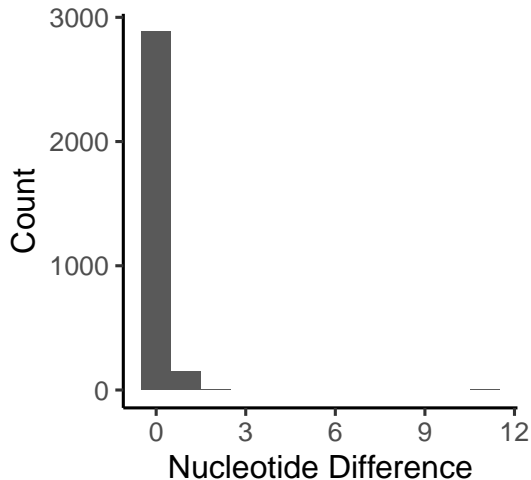
### TRBV17\*ap01

10 sequences assigned  
5 (50%) exact matches, in which:  
5 unique CDR3  
4 unique J



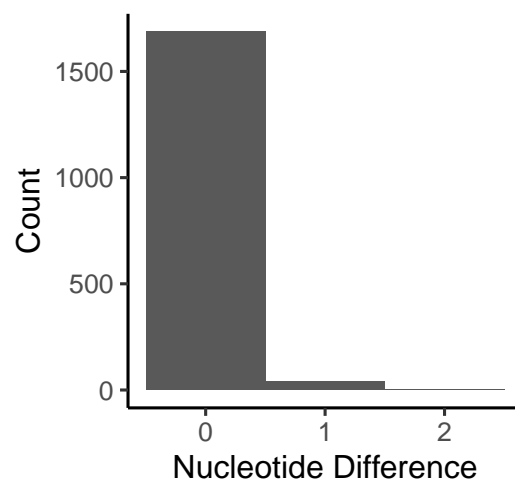
### TRBV2\*ap01

3038 sequences assigned  
2884 (94.9%) exact matches, in which:  
2797 unique CDR3  
13 unique J



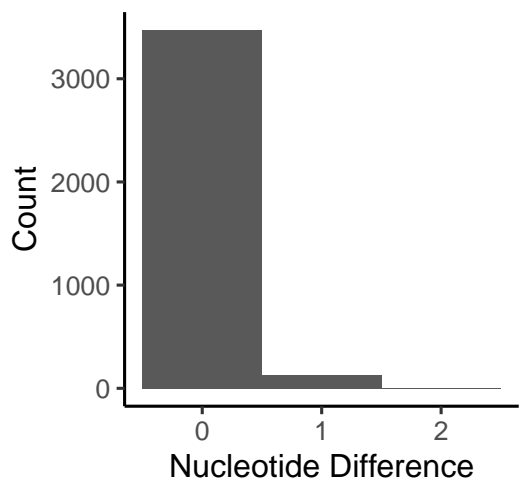
### TRBV28\*ap01

1726 sequences assigned  
1687 (97.7%) exact matches, in which:  
1629 unique CDR3  
14 unique J



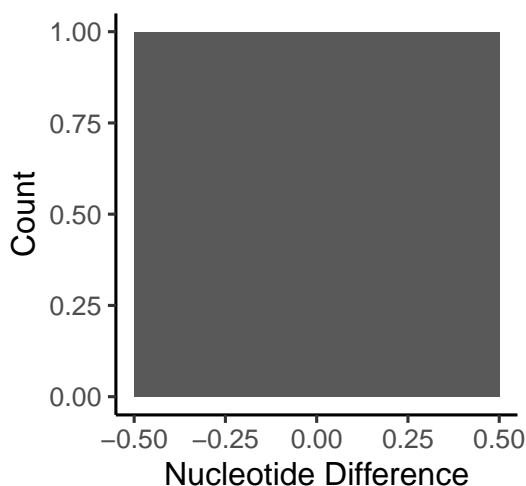
### TRBV18\*ap01

3601 sequences assigned  
3472 (96.4%) exact matches, in which:  
3387 unique CDR3  
13 unique J



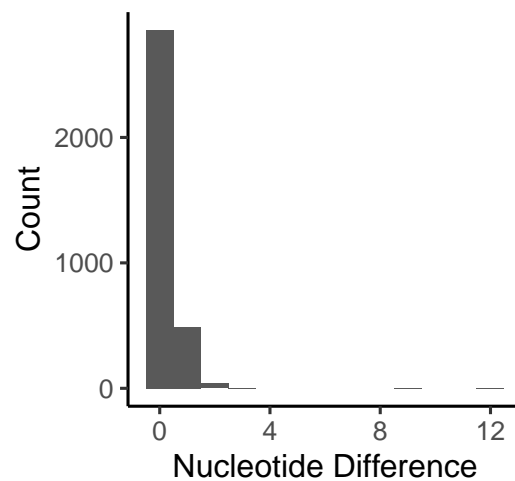
### TRBV26\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



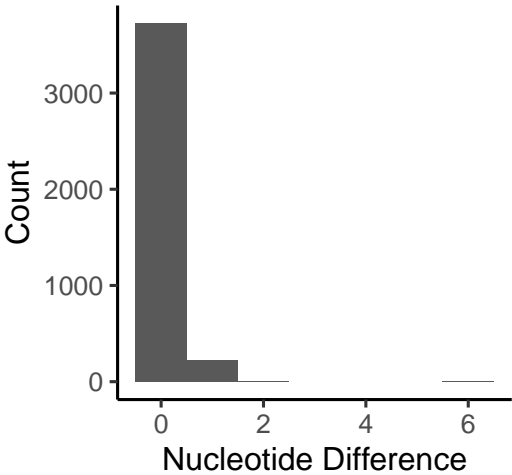
### TRBV30\*ap01

3386 sequences assigned  
2856 (84.3%) exact matches, in which:  
2676 unique CDR3  
13 unique J



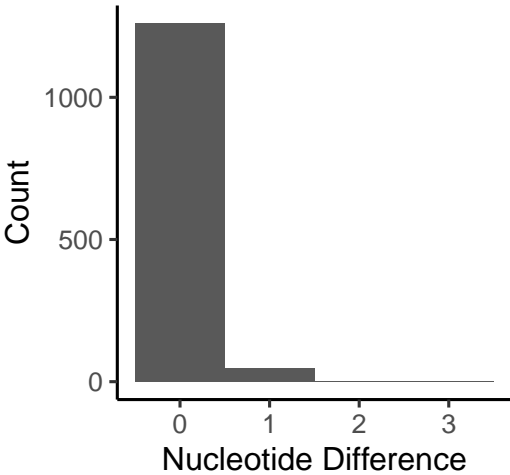
TRBV9\*ap01

3945 sequences assigned  
3724 (94.4%) exact matches, in which:  
3636 unique CDR3  
13 unique J



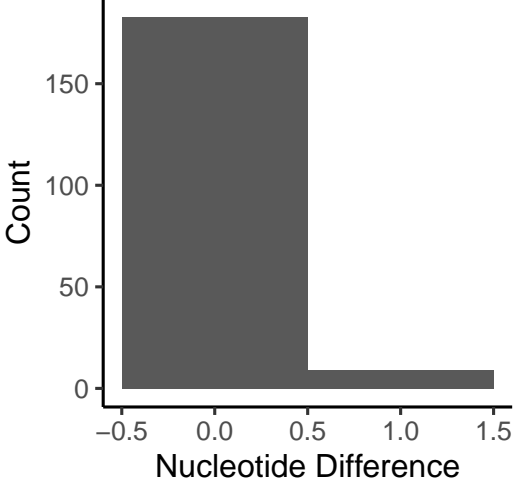
TRBV11-2\*ap01

1310 sequences assigned  
1260 (96.2%) exact matches, in which:  
1220 unique CDR3  
13 unique J



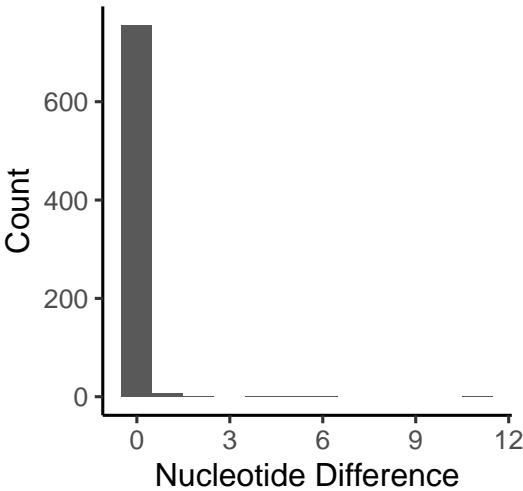
TRBV12-2\*ap01

192 sequences assigned  
183 (95.3%) exact matches, in which:  
180 unique CDR3  
13 unique J



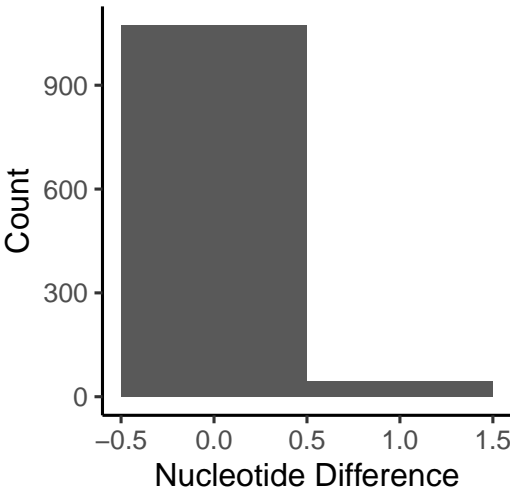
TRBV21-1\*ap01

769 sequences assigned  
756 (98.3%) exact matches, in which:  
735 unique CDR3  
13 unique J



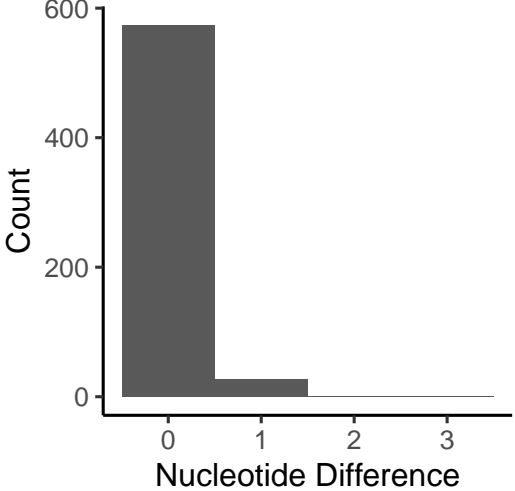
TRBV11-3\*ap01

1119 sequences assigned  
1074 (96%) exact matches, in which:  
1046 unique CDR3  
13 unique J



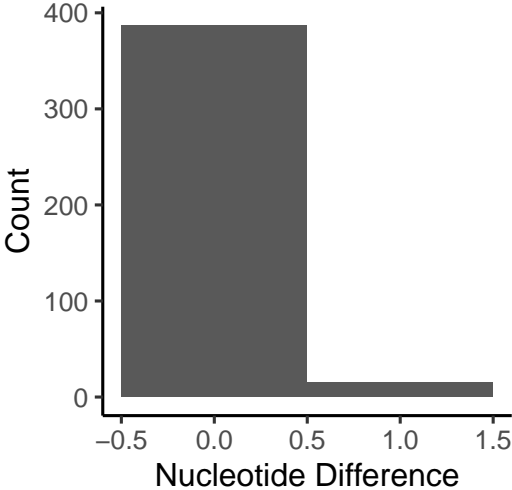
TRBV12-5\*ap01

603 sequences assigned  
574 (95.2%) exact matches, in which:  
561 unique CDR3  
13 unique J



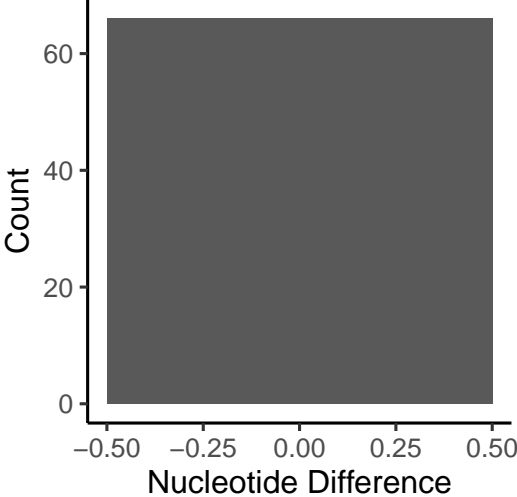
TRBV11-1\*ap01

402 sequences assigned  
387 (96.3%) exact matches, in which:  
376 unique CDR3  
13 unique J



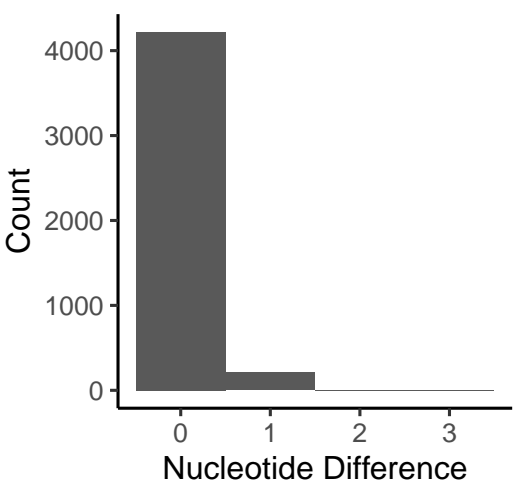
TRBV12-1\*ap01

66 sequences assigned  
66 (100%) exact matches, in which:  
66 unique CDR3  
12 unique J



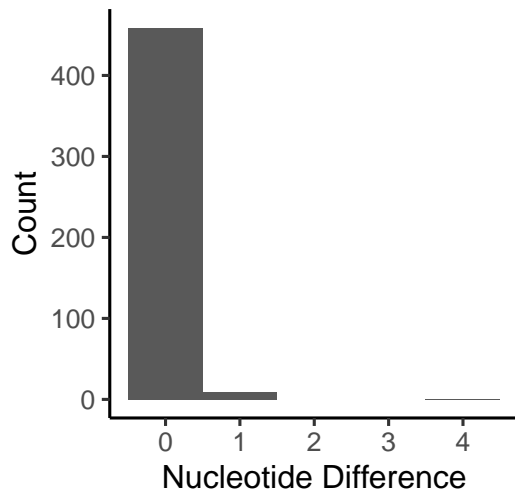
TRBV12-34\*ap01

4433 sequences assigned  
4219 (95.2%) exact matches, in which:  
4068 unique CDR3  
13 unique J



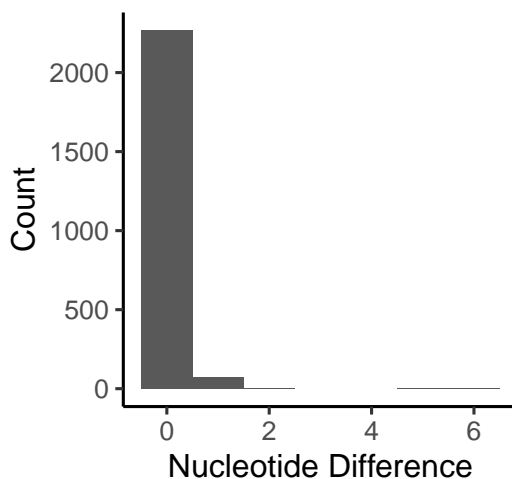
### TRBV23-1\*ap01

469 sequences assigned  
459 (97.9%) exact matches, in which:  
447 unique CDR3  
13 unique J



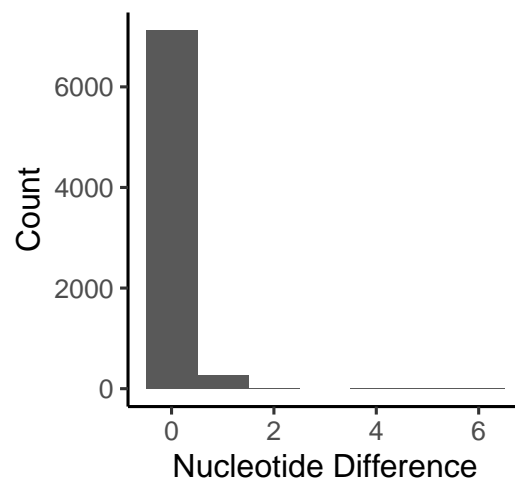
### TRBV24-1\*ap01

2347 sequences assigned  
2267 (96.6%) exact matches, in which:  
2194 unique CDR3  
13 unique J



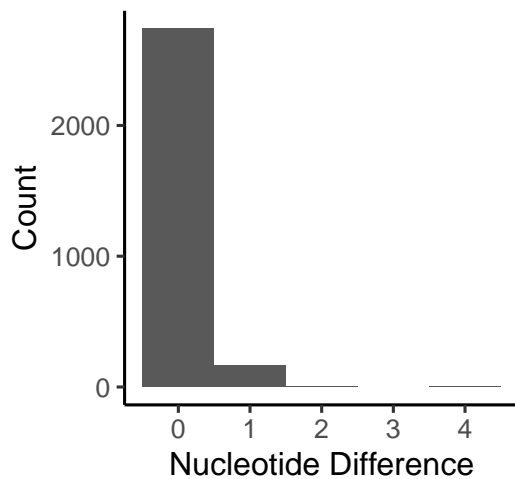
### TRBV5-1\*ap01

7405 sequences assigned  
7122 (96.2%) exact matches, in which:  
6877 unique CDR3  
13 unique J



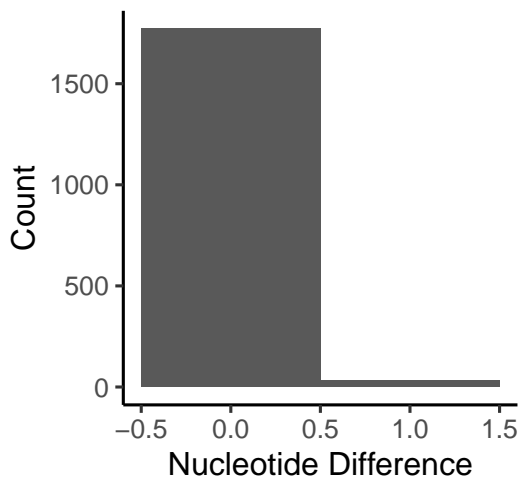
### TRBV3-12\*ap01

2911 sequences assigned  
2740 (94.1%) exact matches, in which:  
2671 unique CDR3  
13 unique J



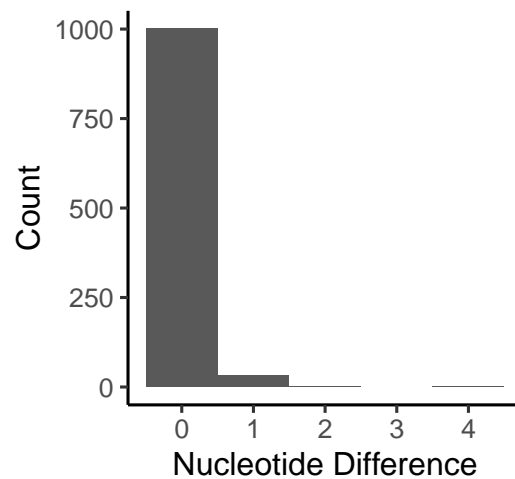
### TRBV4-2\*ap01

1805 sequences assigned  
1772 (98.2%) exact matches, in which:  
1742 unique CDR3  
13 unique J



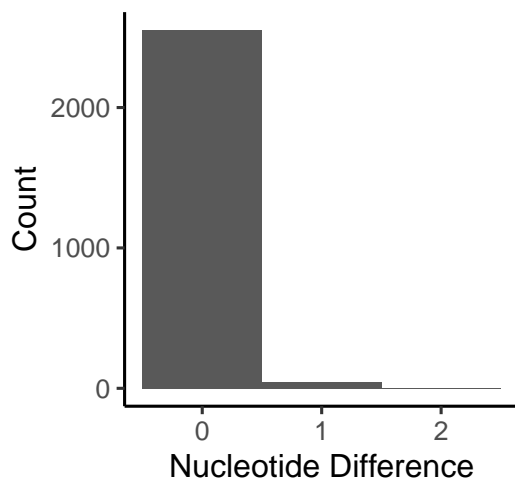
### TRBV25-1\*ap01

1037 sequences assigned  
1001 (96.5%) exact matches, in which:  
965 unique CDR3  
13 unique J



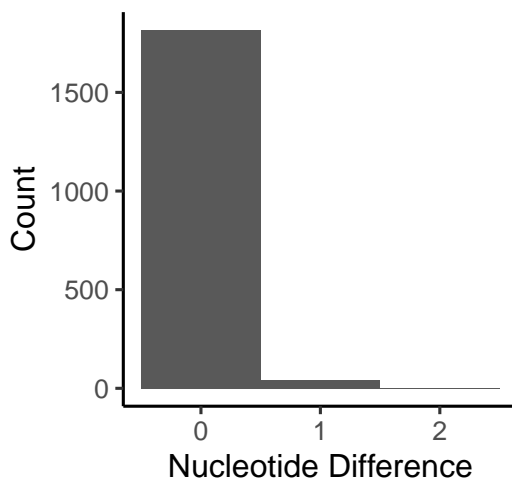
### TRBV4-1\*ap01

2599 sequences assigned  
2552 (98.2%) exact matches, in which:  
2495 unique CDR3  
13 unique J



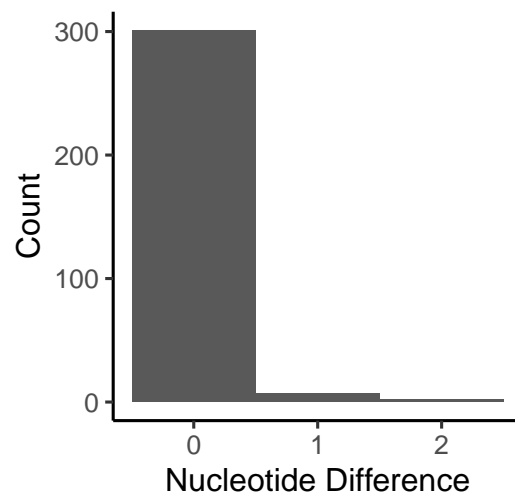
### TRBV4-3\*ap01

1859 sequences assigned  
1816 (97.7%) exact matches, in which:  
1768 unique CDR3  
13 unique J



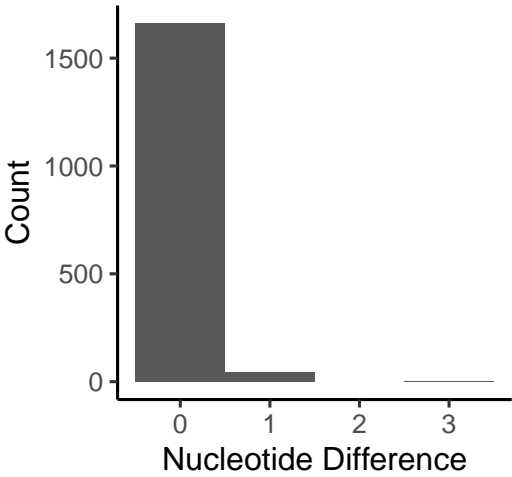
### TRBV5-3\*ap01

310 sequences assigned  
301 (97.1%) exact matches, in which:  
294 unique CDR3  
13 unique J



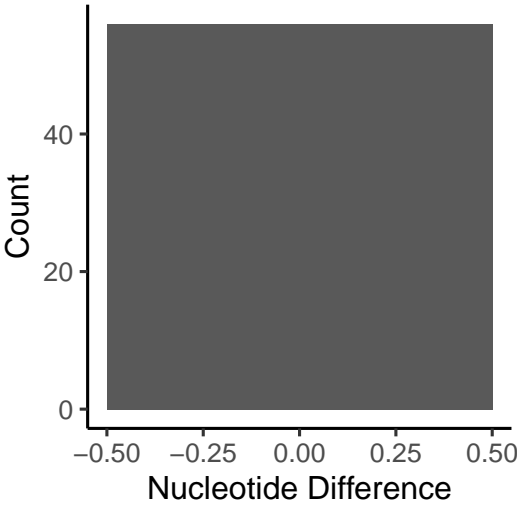
TRBV5-4\*ap01

1705 sequences assigned  
1661 (97.4%) exact matches, in which:  
1614 unique CDR3  
13 unique J



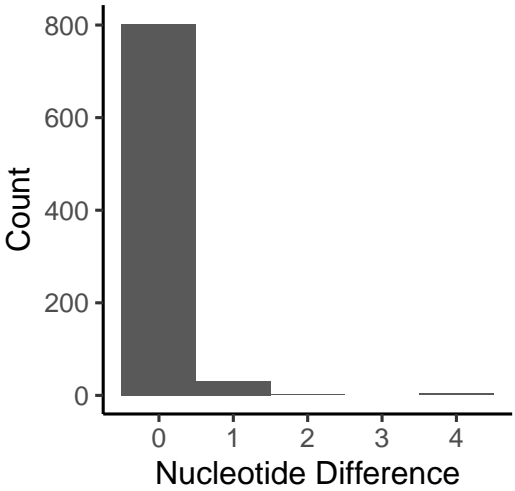
TRBV5-7\*ap01

56 sequences assigned  
56 (100%) exact matches, in which:  
53 unique CDR3  
12 unique J



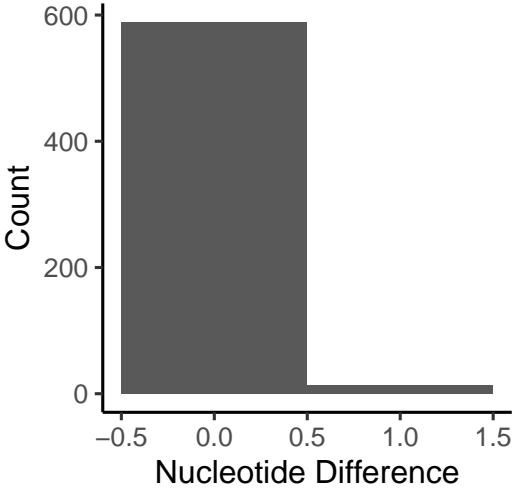
TRBV6-4\*ap01

840 sequences assigned  
803 (95.6%) exact matches, in which:  
783 unique CDR3  
13 unique J



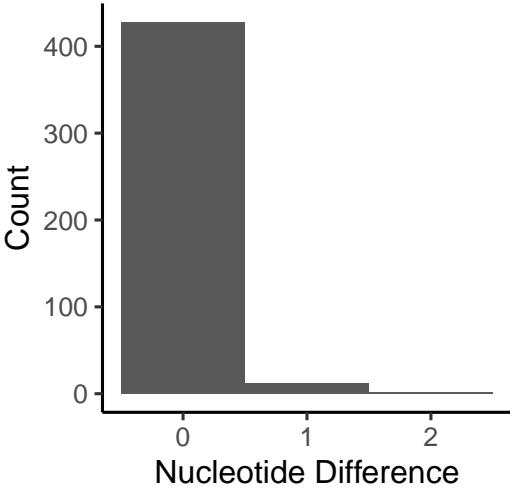
TRBV5-5\*ap01

602 sequences assigned  
589 (97.8%) exact matches, in which:  
557 unique CDR3  
13 unique J



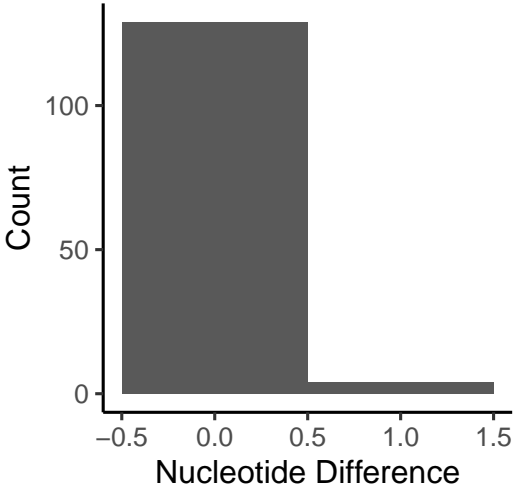
TRBV5-8\*ap01

442 sequences assigned  
428 (96.8%) exact matches, in which:  
412 unique CDR3  
13 unique J



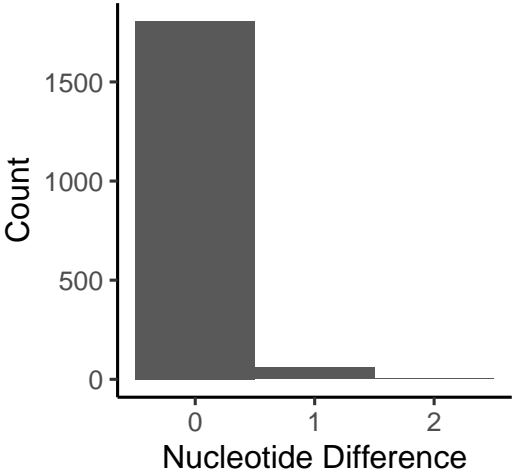
TRBV6-7\*ap01

133 sequences assigned  
129 (97%) exact matches, in which:  
125 unique CDR3  
11 unique J



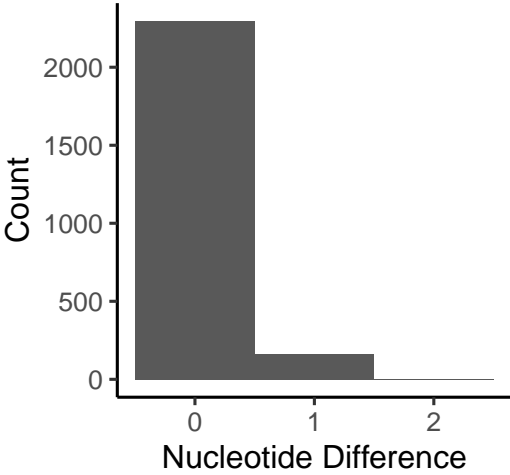
TRBV5-6\*ap01

1872 sequences assigned  
1807 (96.5%) exact matches, in which:  
1712 unique CDR3  
13 unique J



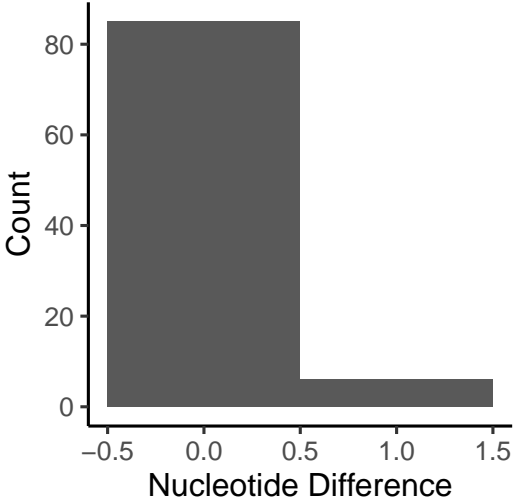
TRBV6-1\*ap01

2463 sequences assigned  
2296 (93.2%) exact matches, in which:  
2227 unique CDR3  
13 unique J



TRBV6-8\*ap01

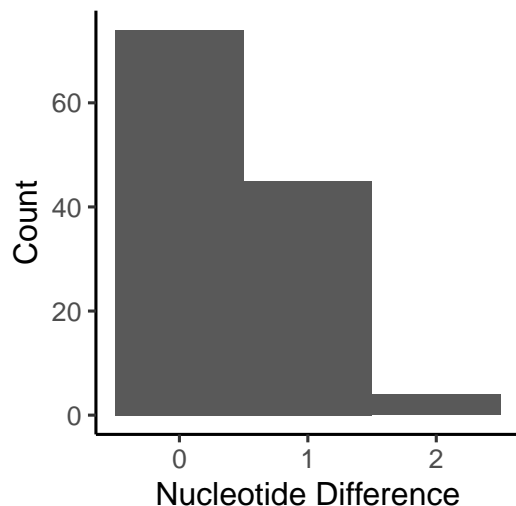
91 sequences assigned  
85 (93.4%) exact matches, in which:  
83 unique CDR3  
11 unique J





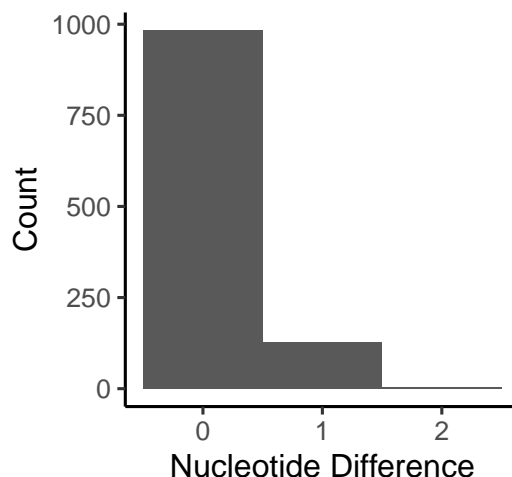
### TRBV6–9\*ap01

123 sequences assigned  
74 (60.2%) exact matches, in which:  
72 unique CDR3  
12 unique J



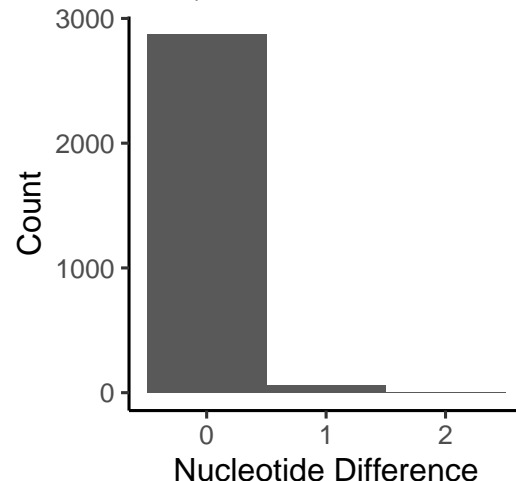
### TRBV6–56\*ap02

1114 sequences assigned  
983 (88.2%) exact matches, in which:  
946 unique CDR3  
13 unique J



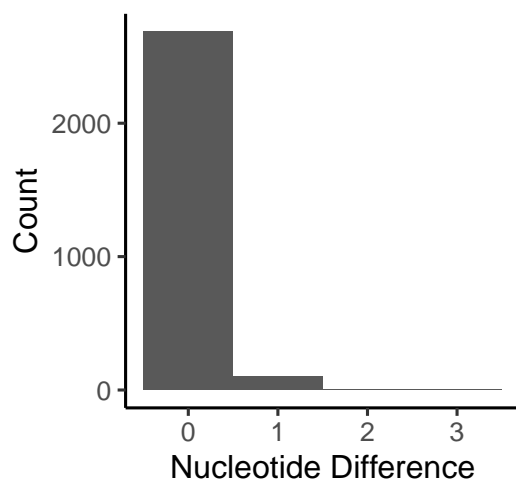
### TRBV7–2\*ap01

2935 sequences assigned  
2872 (97.9%) exact matches, in which:  
2754 unique CDR3  
13 unique J



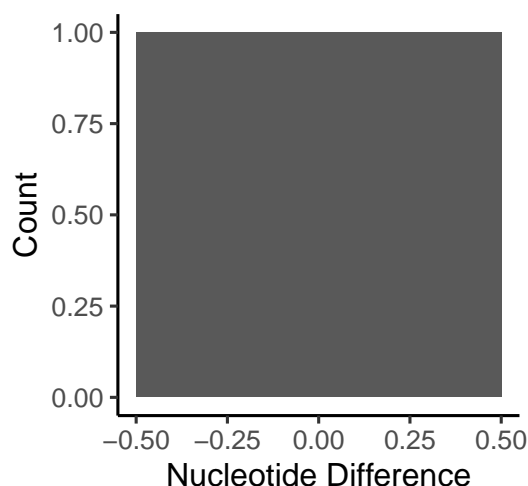
### TRBV6–23\*ap01

2792 sequences assigned  
2686 (96.2%) exact matches, in which:  
2604 unique CDR3  
13 unique J



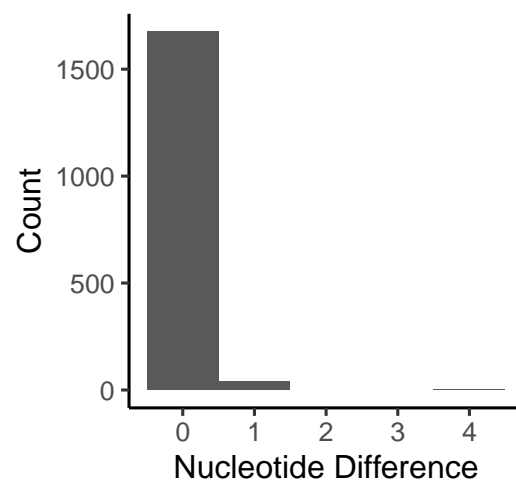
### TRBV7–1\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



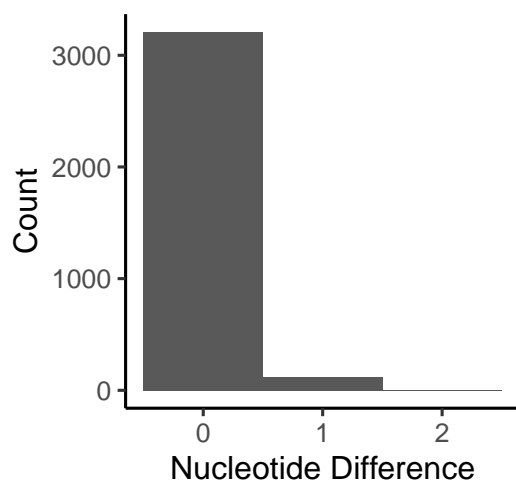
### TRBV7–3\*ap01

1718 sequences assigned  
1675 (97.5%) exact matches, in which:  
1611 unique CDR3  
13 unique J



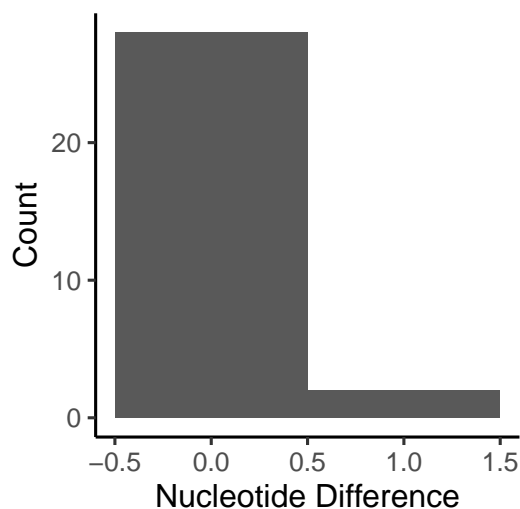
### TRBV6–56\*ap01

3330 sequences assigned  
3208 (96.3%) exact matches, in which:  
3126 unique CDR3  
13 unique J



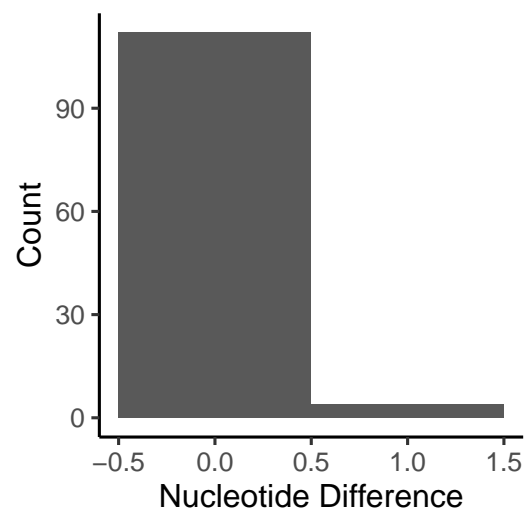
### TRBV7–1\*ap01\_G291C\_T

30 sequences assigned  
28 (93.3%) exact matches, in which:  
26 unique CDR3  
9 unique J



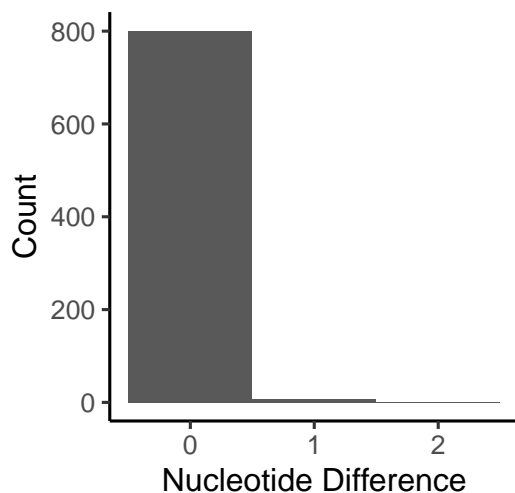
### TRBV7–4\*ap01

116 sequences assigned  
112 (96.6%) exact matches, in which:  
109 unique CDR3  
13 unique J



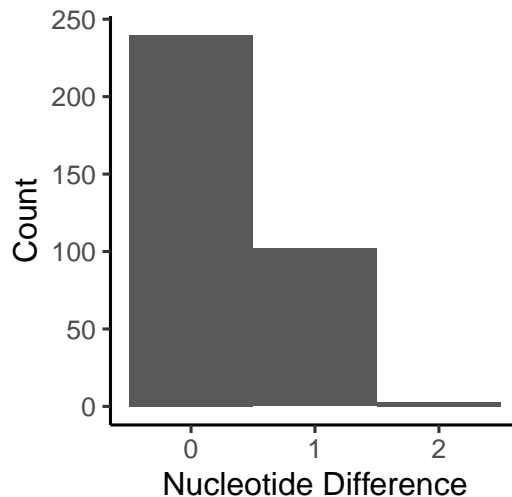
### TRBV7-6\*ap01

809 sequences assigned  
801 (99%) exact matches, in which:  
771 unique CDR3  
13 unique J



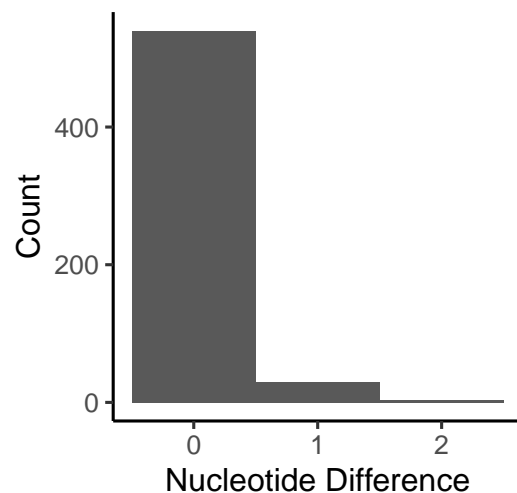
### TRBV7-8\*ap03

345 sequences assigned  
240 (69.6%) exact matches, in which:  
235 unique CDR3  
13 unique J



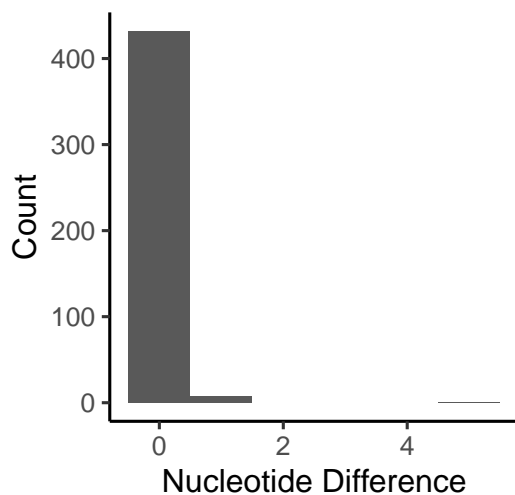
### TRBV29-1\*ap02

574 sequences assigned  
540 (94.1%) exact matches, in which:  
505 unique CDR3  
13 unique J



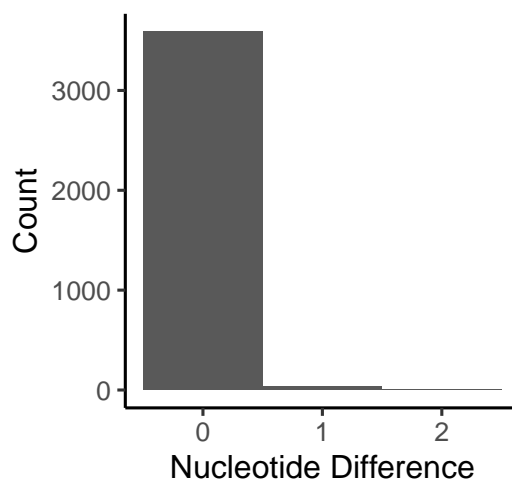
### TRBV7-7\*ap01\_C315T

441 sequences assigned  
432 (98%) exact matches, in which:  
401 unique CDR3  
13 unique J



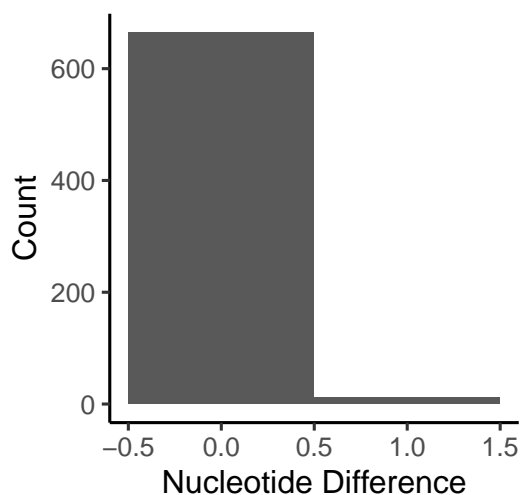
### TRBV7-9\*ap01

3624 sequences assigned  
3588 (99%) exact matches, in which:  
3468 unique CDR3  
13 unique J



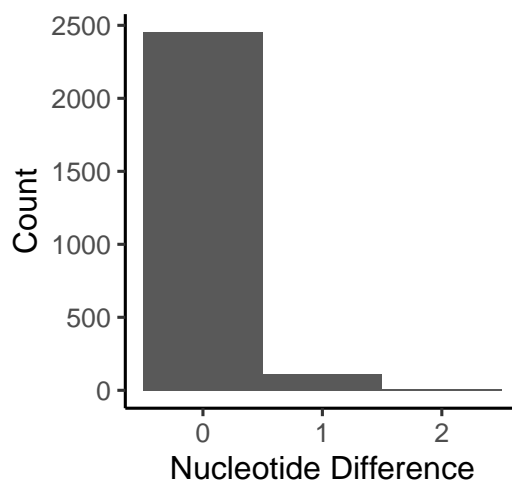
### TRBV7-8\*ap01

677 sequences assigned  
665 (98.2%) exact matches, in which:  
643 unique CDR3  
13 unique J

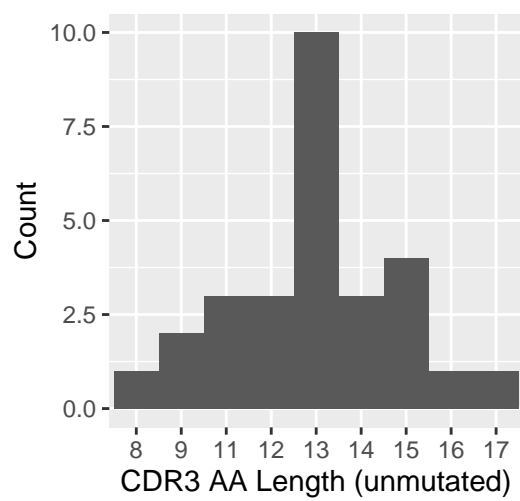


### TRBV29-1\*ap01

2576 sequences assigned  
2454 (95.3%) exact matches, in which:  
2331 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

