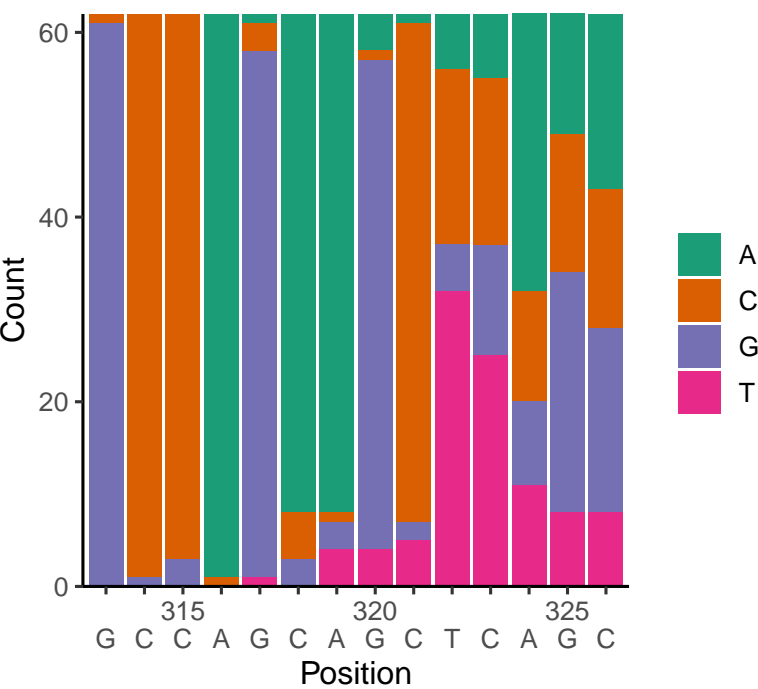
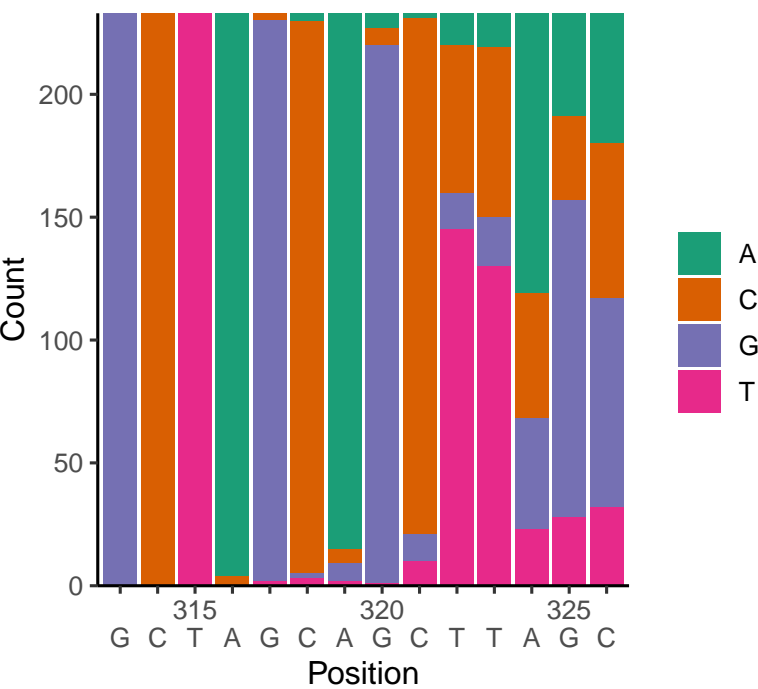


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



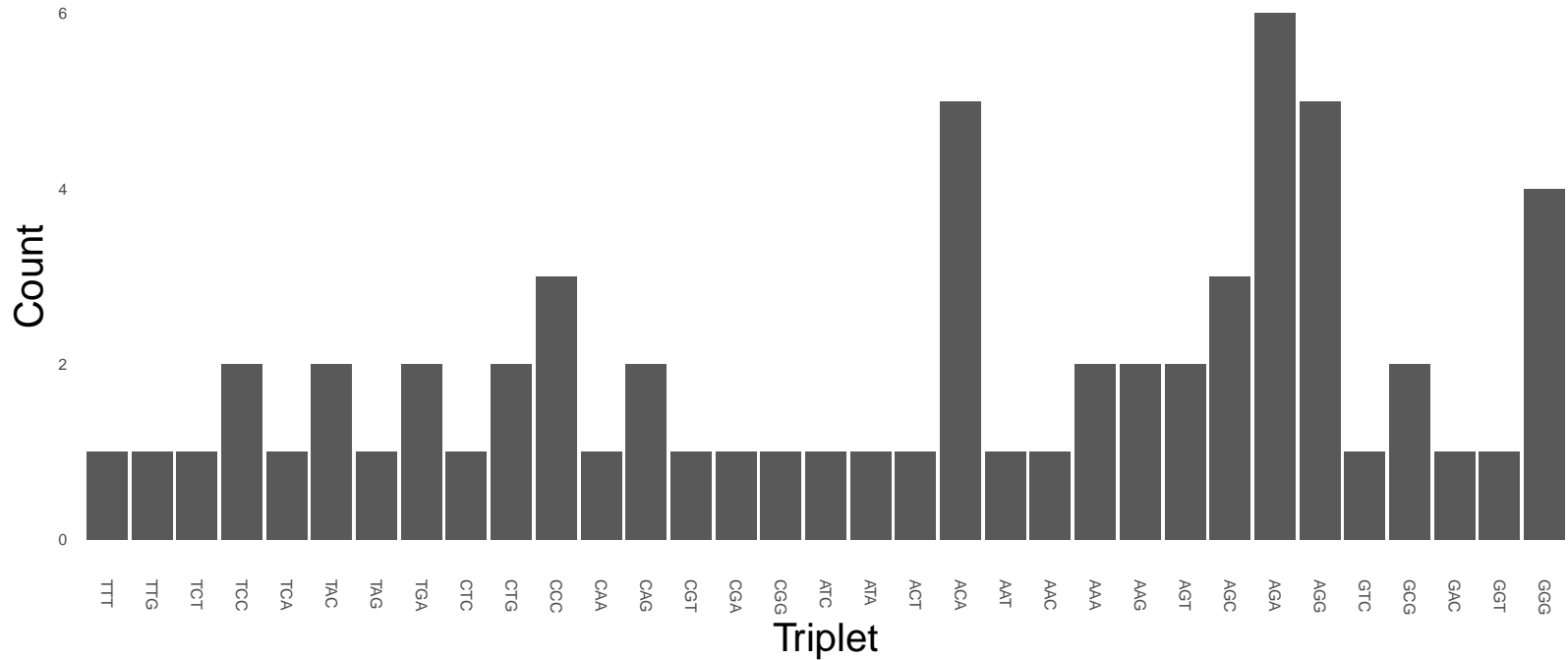
Gene TRBV7-1\*ap01\_G291C\_T296C



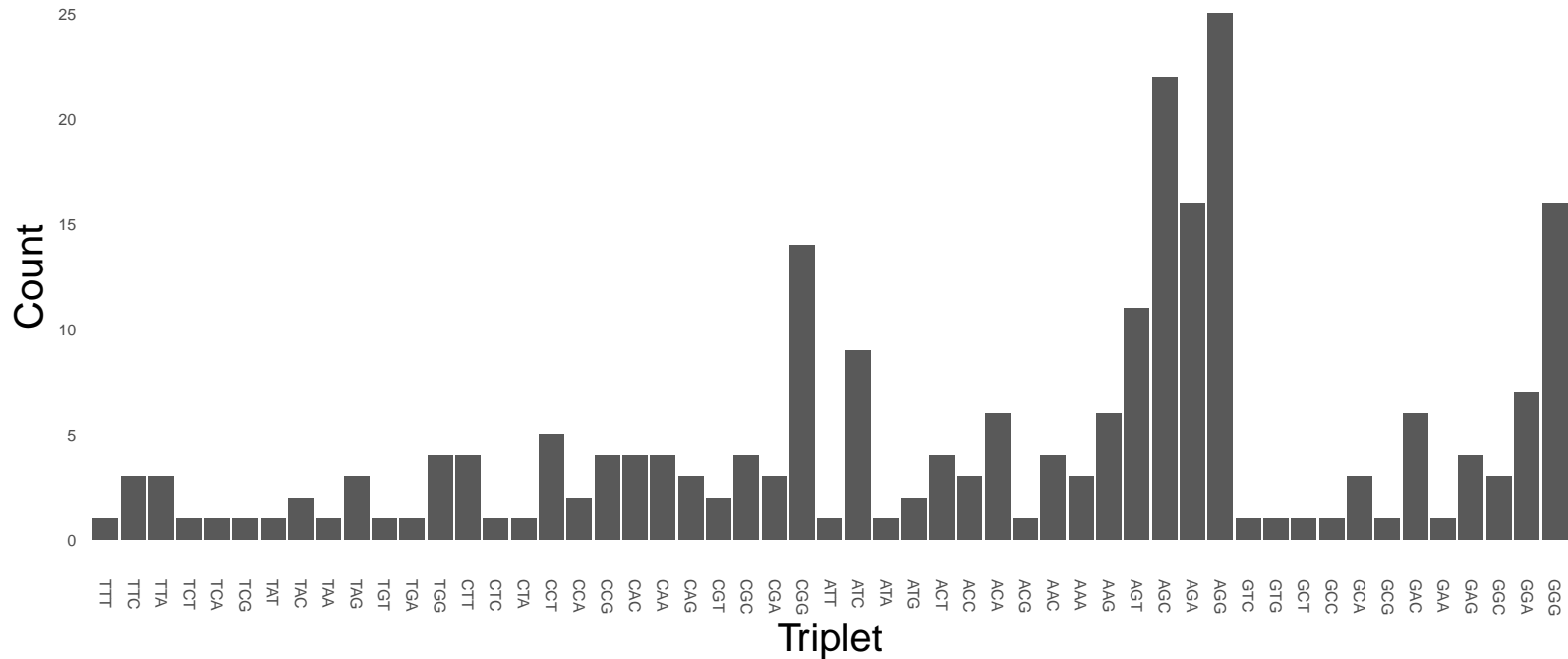
Gene TRBV7-7\*ap01\_C315T



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

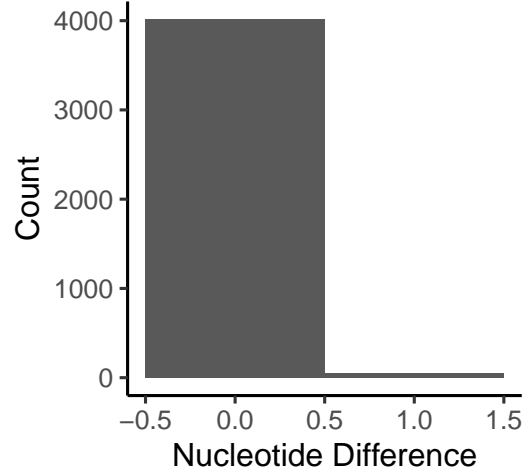


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



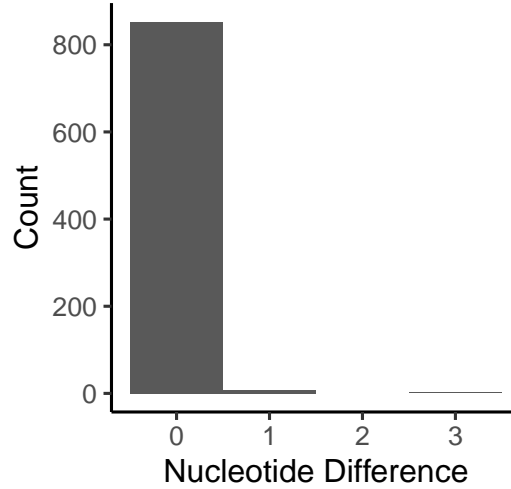
### TRBV20-1\*ap01

4068 sequences assigned  
4014 (98.7%) exact matches, in which:  
3935 unique CDR3  
13 unique J



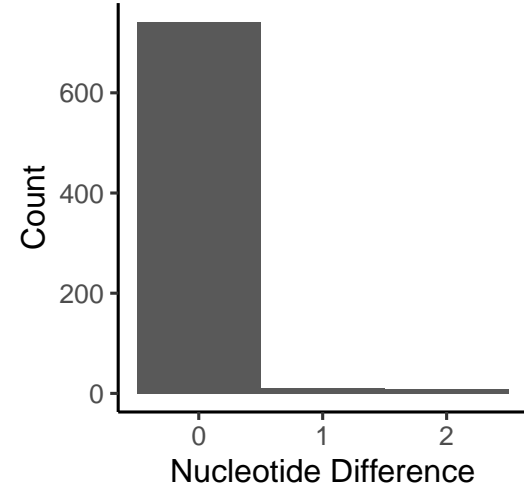
### TRBV10-2\*ap01

863 sequences assigned  
853 (98.8%) exact matches, in which:  
840 unique CDR3  
13 unique J



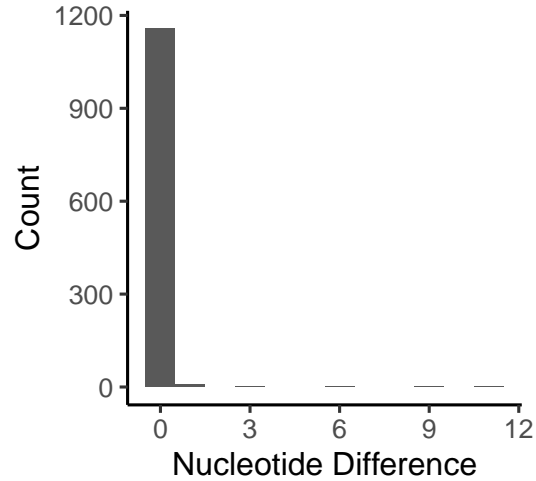
### TRBV13\*ap01

762 sequences assigned  
742 (97.4%) exact matches, in which:  
727 unique CDR3  
13 unique J



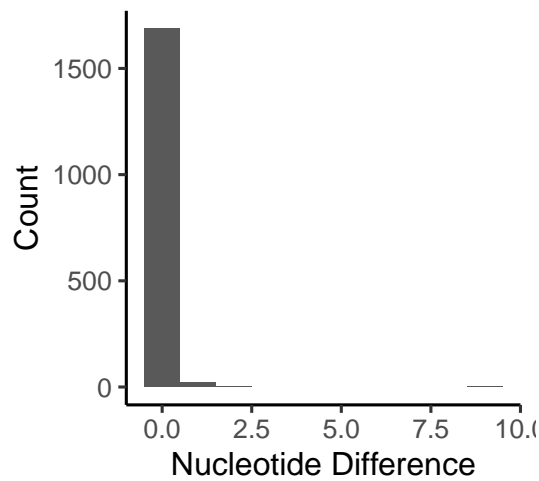
### TRBV10-1\*ap01

1171 sequences assigned  
1157 (98.8%) exact matches, in which:  
1143 unique CDR3  
13 unique J



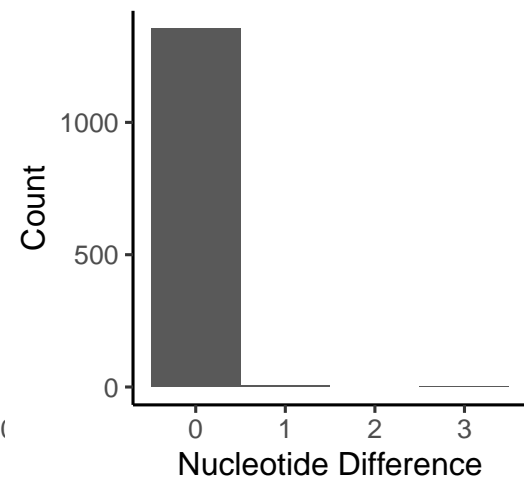
### TRBV10-3\*ap01

1708 sequences assigned  
1687 (98.8%) exact matches, in which:  
1658 unique CDR3  
13 unique J



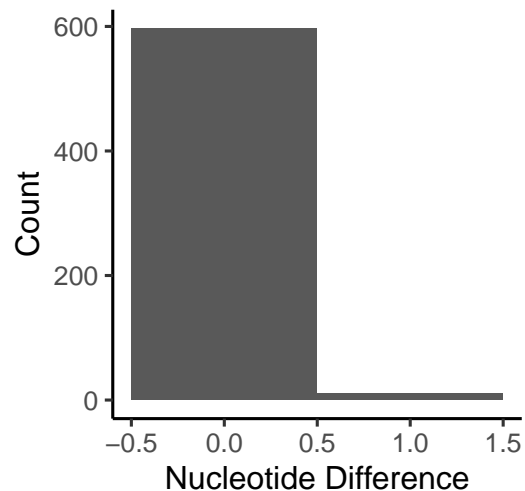
### TRBV14\*ap01

1362 sequences assigned  
1354 (99.4%) exact matches, in which:  
1334 unique CDR3  
13 unique J



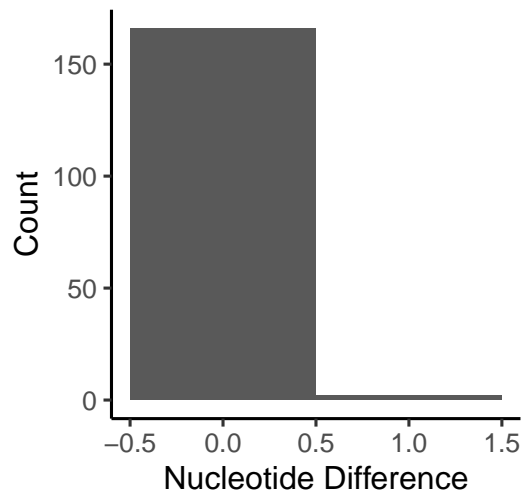
### TRBV20-1\*ap02

608 sequences assigned  
597 (98.2%) exact matches, in which:  
591 unique CDR3  
13 unique J



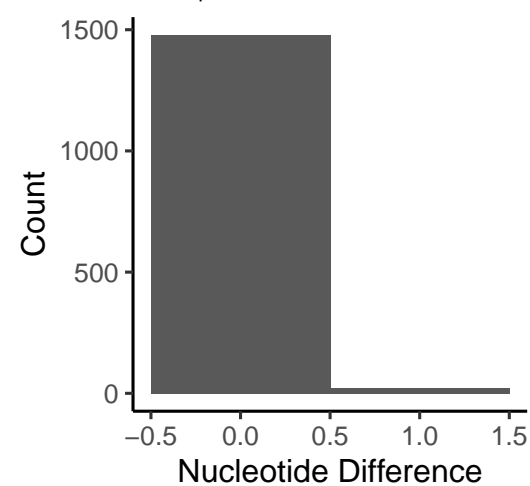
### TRBV1\*ap01

168 sequences assigned  
166 (98.8%) exact matches, in which:  
166 unique CDR3  
13 unique J



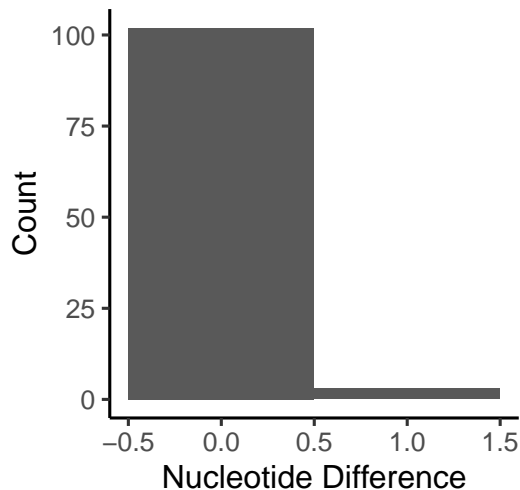
### TRBV15\*ap02

1500 sequences assigned  
1478 (98.5%) exact matches, in which:  
1451 unique CDR3  
13 unique J



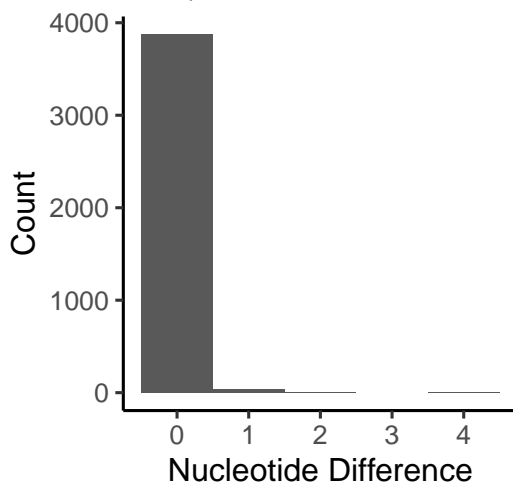
### TRBV16\*ap01

105 sequences assigned  
102 (97.1%) exact matches, in which:  
99 unique CDR3  
12 unique J



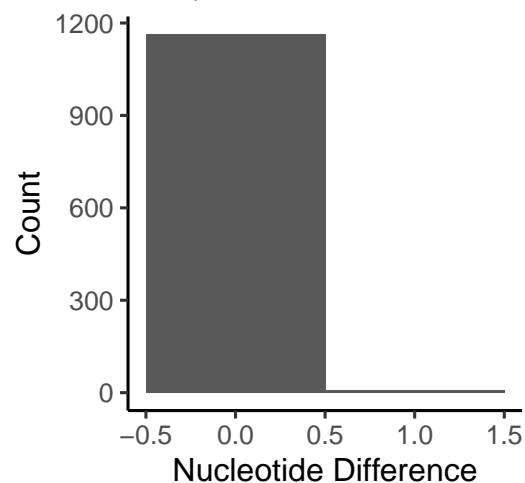
### TRBV2\*ap01

3920 sequences assigned  
3874 (98.8%) exact matches, in which:  
3817 unique CDR3  
13 unique J



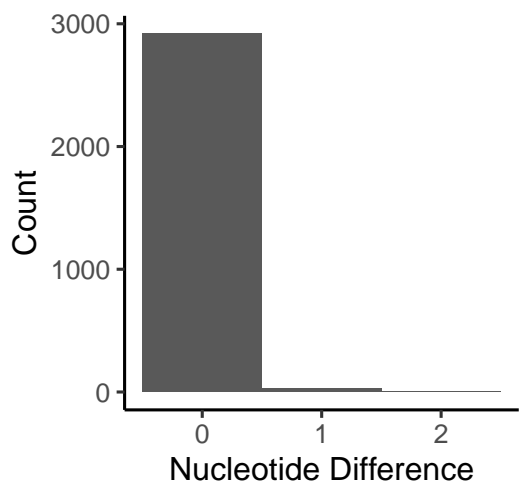
### TRBV28\*ap01

1172 sequences assigned  
1163 (99.2%) exact matches, in which:  
1136 unique CDR3  
13 unique J



### TRBV18\*ap01

2951 sequences assigned  
2919 (98.9%) exact matches, in which:  
2874 unique CDR3  
13 unique J



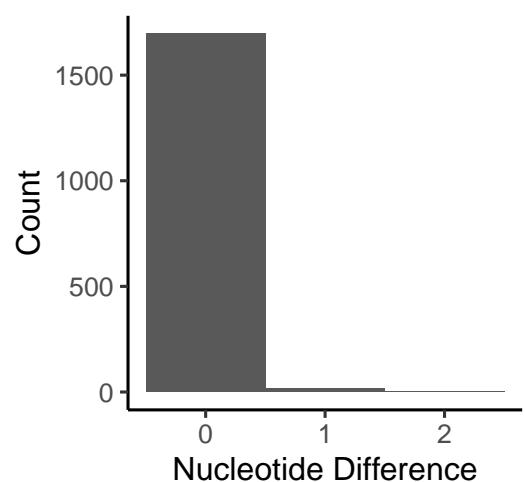
### TRBV26\*ap01

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



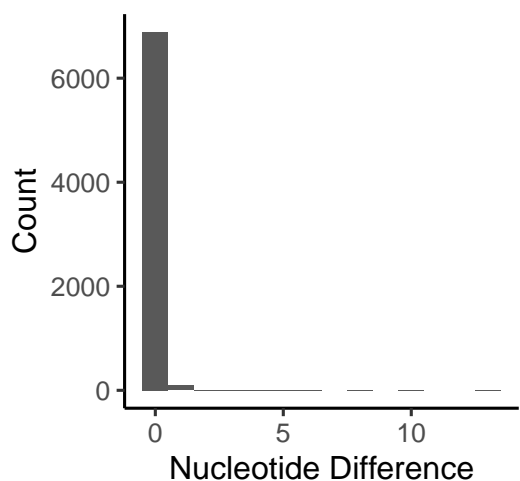
### TRBV30\*ap01

1717 sequences assigned  
1696 (98.8%) exact matches, in which:  
1688 unique CDR3  
13 unique J



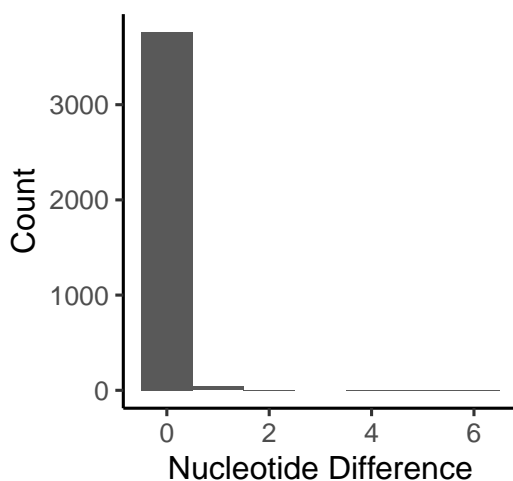
### TRBV19\*ap01

6996 sequences assigned  
6887 (98.4%) exact matches, in which:  
6773 unique CDR3  
13 unique J



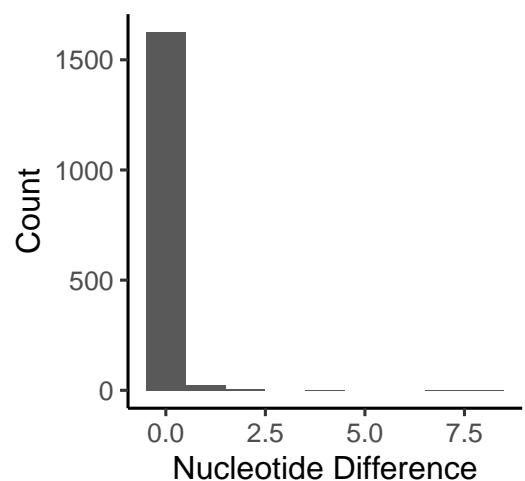
### TRBV27\*ap01

3809 sequences assigned  
3763 (98.8%) exact matches, in which:  
3698 unique CDR3  
13 unique J



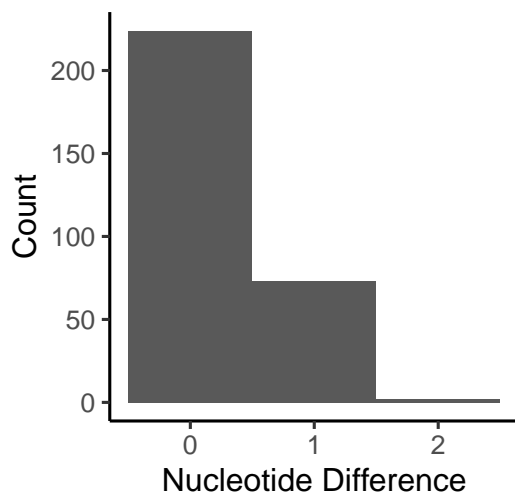
### TRBV30\*ap02

1659 sequences assigned  
1626 (98%) exact matches, in which:  
1616 unique CDR3  
14 unique J



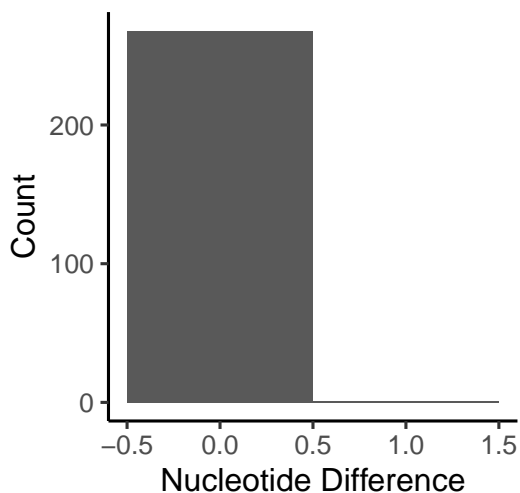
### TRBV30\*ap03

299 sequences assigned  
224 (74.9%) exact matches, in which:  
220 unique CDR3  
13 unique J



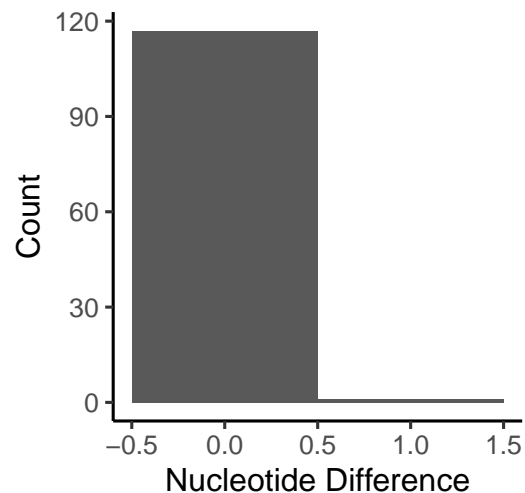
### TRBV11-1\*ap01

269 sequences assigned  
268 (99.6%) exact matches, in which:  
264 unique CDR3  
13 unique J



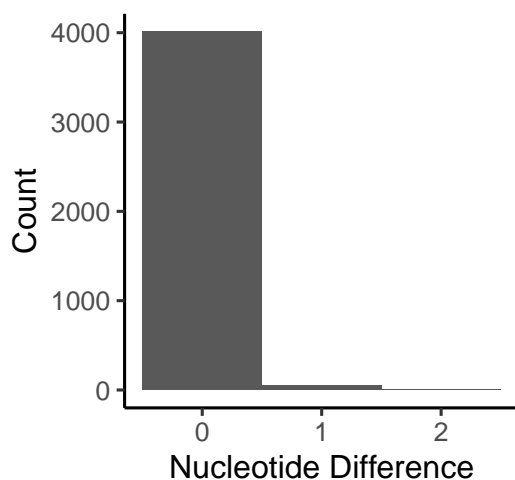
### TRBV12-1\*ap01

118 sequences assigned  
117 (99.2%) exact matches, in which:  
114 unique CDR3  
12 unique J



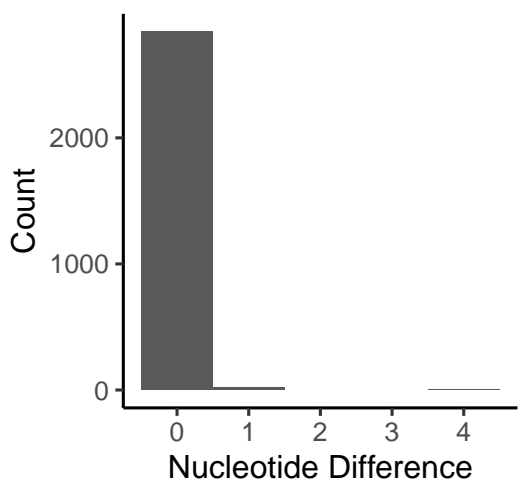
### TRBV9\*ap01

4066 sequences assigned  
4011 (98.6%) exact matches, in which:  
3936 unique CDR3  
13 unique J



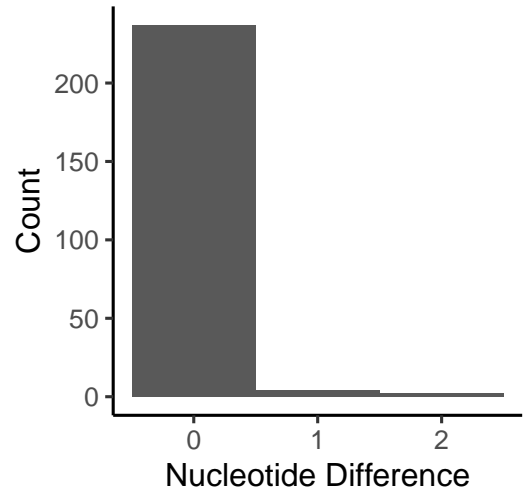
### TRBV11-2\*ap01

2864 sequences assigned  
2842 (99.2%) exact matches, in which:  
2793 unique CDR3  
13 unique J



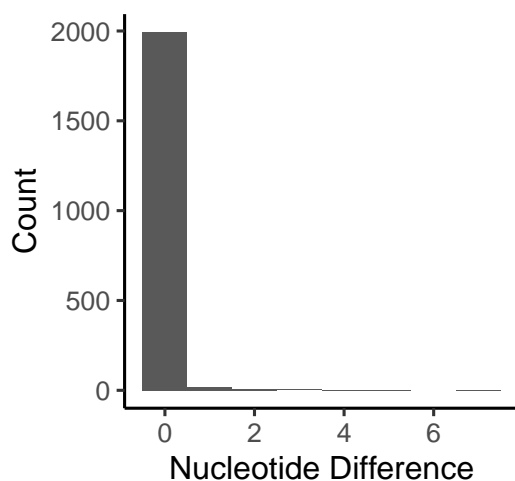
### TRBV12-2\*ap01

243 sequences assigned  
237 (97.5%) exact matches, in which:  
233 unique CDR3  
13 unique J



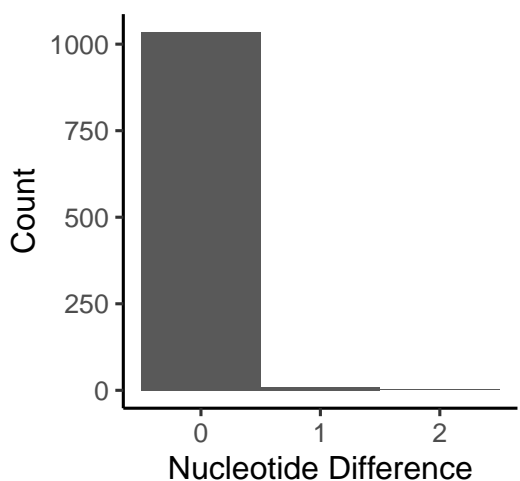
### TRBV21-1\*ap01

2029 sequences assigned  
1994 (98.3%) exact matches, in which:  
1957 unique CDR3  
13 unique J



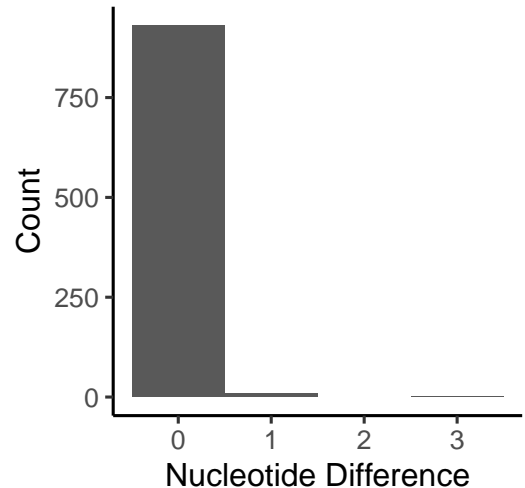
### TRBV11-3\*ap01

1047 sequences assigned  
1035 (98.9%) exact matches, in which:  
1022 unique CDR3  
13 unique J



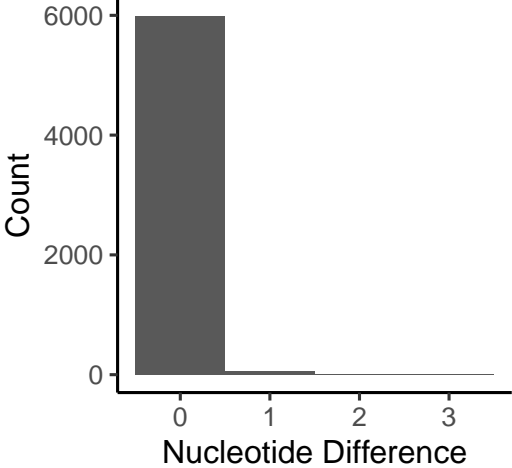
### TRBV12-5\*ap01

942 sequences assigned  
931 (98.8%) exact matches, in which:  
907 unique CDR3  
13 unique J



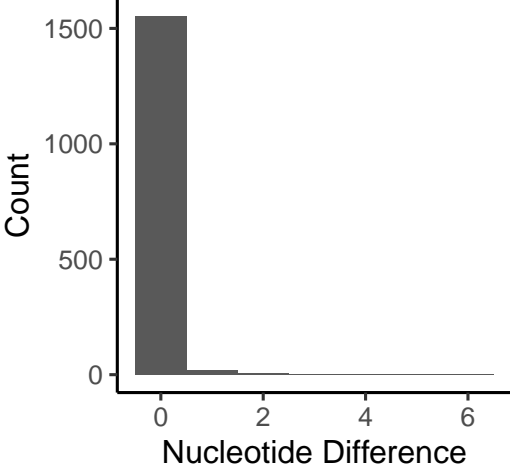
TRBV12-34\*ap01

6043 sequences assigned  
5982 (99%) exact matches, in which:  
5892 unique CDR3  
13 unique J



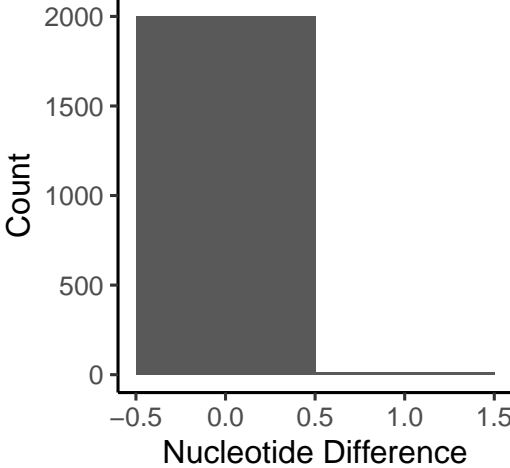
TRBV24-1\*ap01

1583 sequences assigned  
1552 (98%) exact matches, in which:  
1541 unique CDR3  
13 unique J



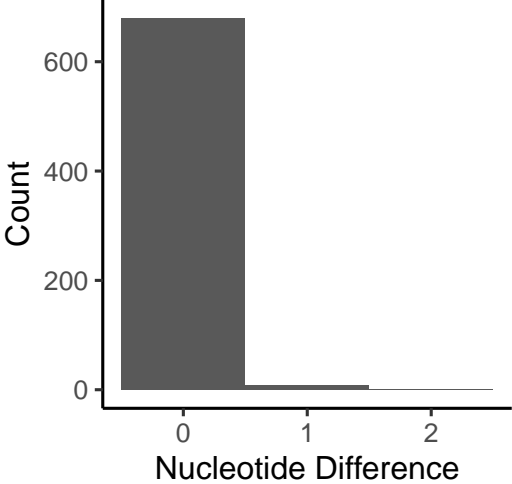
TRBV4-3\*ap01

2016 sequences assigned  
2000 (99.2%) exact matches, in which:  
1977 unique CDR3  
13 unique J



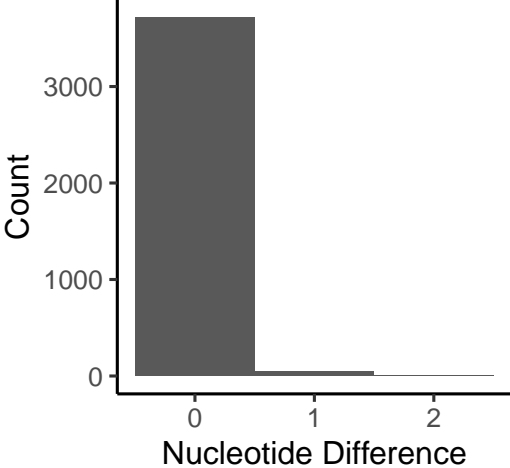
TRBV23-1\*ap01

689 sequences assigned  
680 (98.7%) exact matches, in which:  
664 unique CDR3  
13 unique J



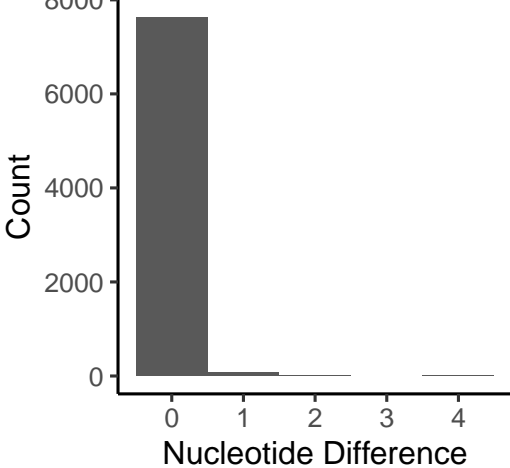
TRBV4-1\*ap01

3757 sequences assigned  
3713 (98.8%) exact matches, in which:  
3639 unique CDR3  
13 unique J



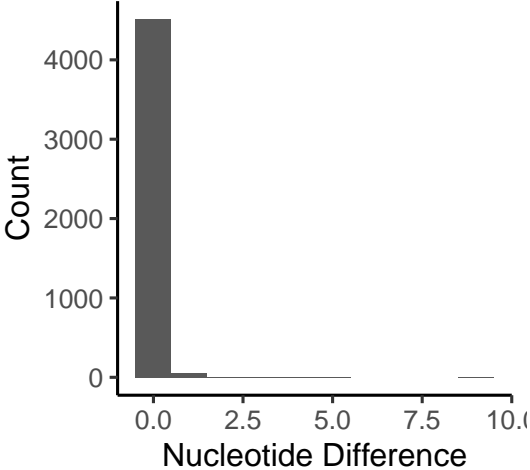
TRBV5-1\*ap01

7689 sequences assigned  
7620 (99.1%) exact matches, in which:  
7440 unique CDR3  
13 unique J



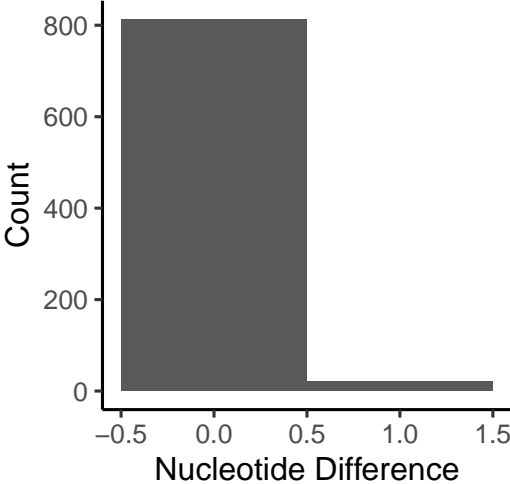
TRBV3-12\*ap01

4577 sequences assigned  
4514 (98.6%) exact matches, in which:  
4442 unique CDR3  
13 unique J



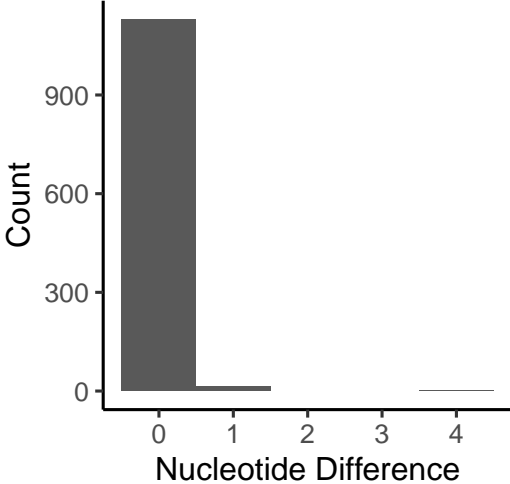
TRBV4-2\*ap01

833 sequences assigned  
813 (97.6%) exact matches, in which:  
803 unique CDR3  
13 unique J



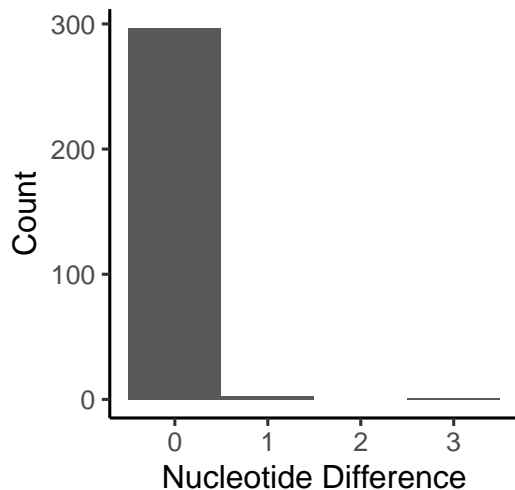
TRBV25-1\*ap01

1144 sequences assigned  
1130 (98.8%) exact matches, in which:  
1124 unique CDR3  
13 unique J



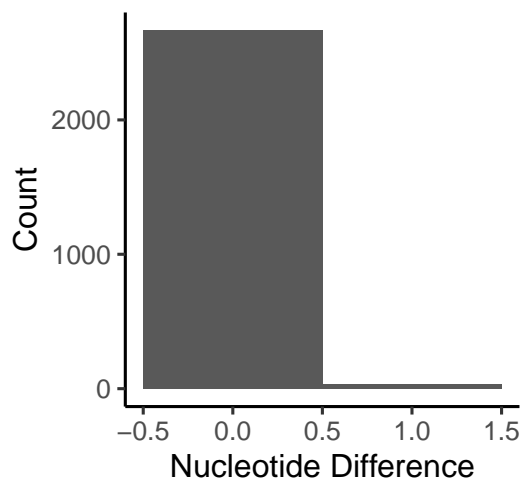
### TRBV5-3\*ap01

301 sequences assigned  
297 (98.7%) exact matches, in which:  
285 unique CDR3  
13 unique J



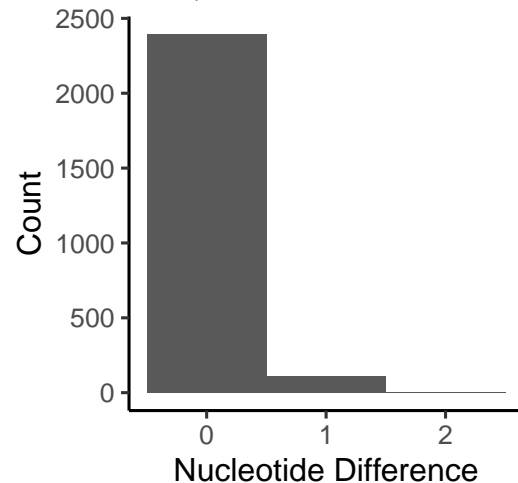
### TRBV5-6\*ap01

2699 sequences assigned  
2666 (98.8%) exact matches, in which:  
2623 unique CDR3  
13 unique J



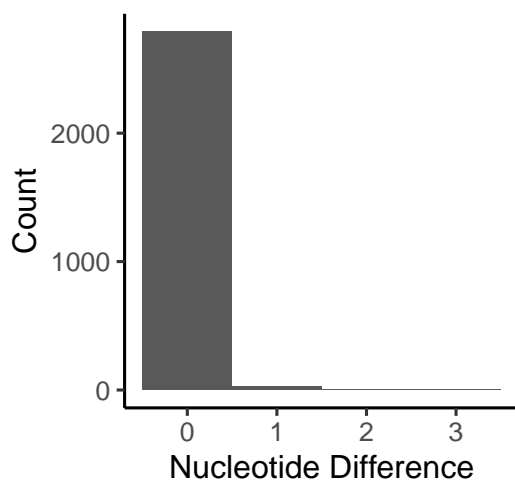
### TRBV6-1\*ap01

2508 sequences assigned  
2393 (95.4%) exact matches, in which:  
2352 unique CDR3  
13 unique J



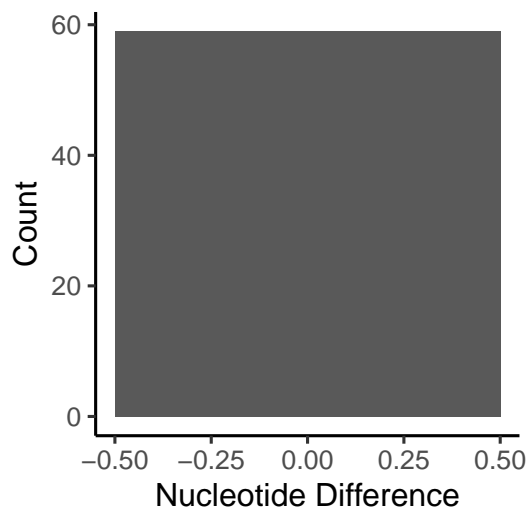
### TRBV5-4\*ap01

2822 sequences assigned  
2790 (98.9%) exact matches, in which:  
2744 unique CDR3  
13 unique J



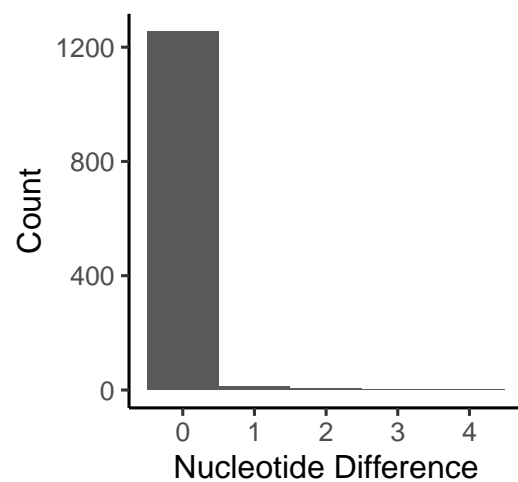
### TRBV5-7\*ap01

59 sequences assigned  
59 (100%) exact matches, in which:  
58 unique CDR3  
12 unique J



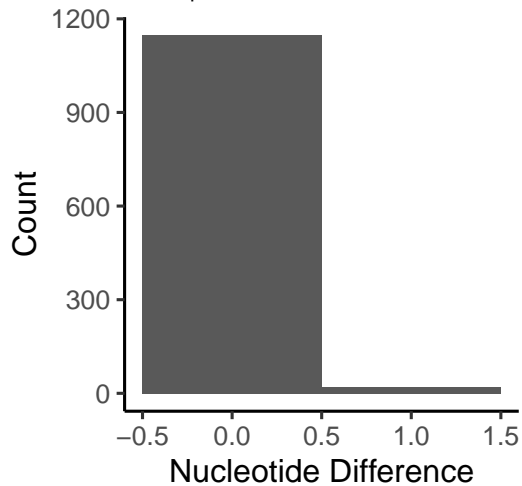
### TRBV6-4\*ap01

1272 sequences assigned  
1254 (98.6%) exact matches, in which:  
1244 unique CDR3  
13 unique J



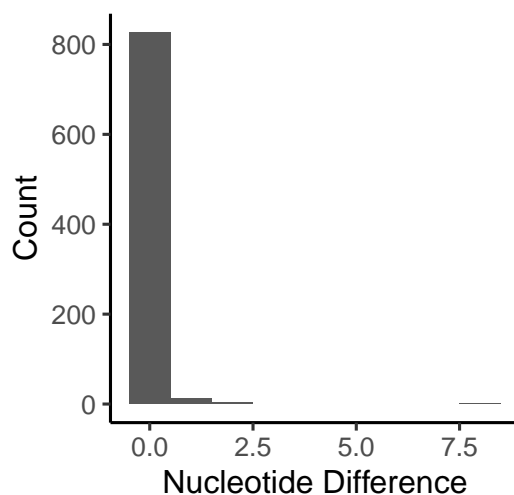
### TRBV5-5\*ap01

1168 sequences assigned  
1148 (98.3%) exact matches, in which:  
1121 unique CDR3  
13 unique J



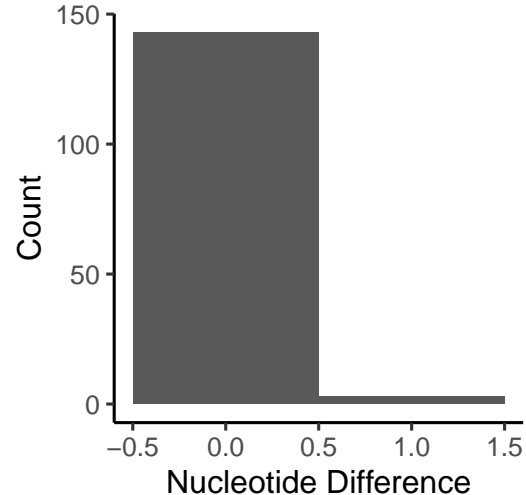
### TRBV5-8\*ap01

844 sequences assigned  
827 (98%) exact matches, in which:  
812 unique CDR3  
13 unique J



### TRBV6-7\*ap01

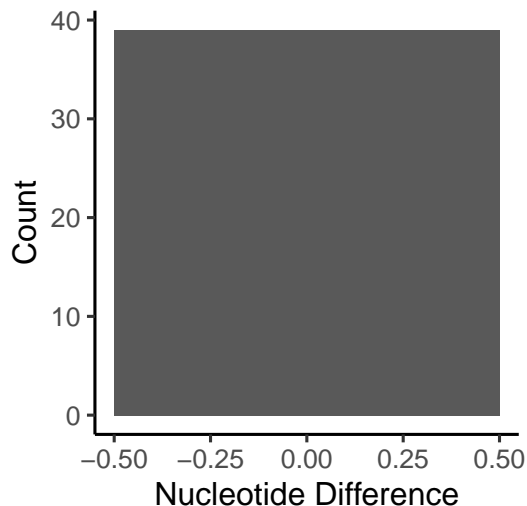
146 sequences assigned  
143 (97.9%) exact matches, in which:  
138 unique CDR3  
13 unique J





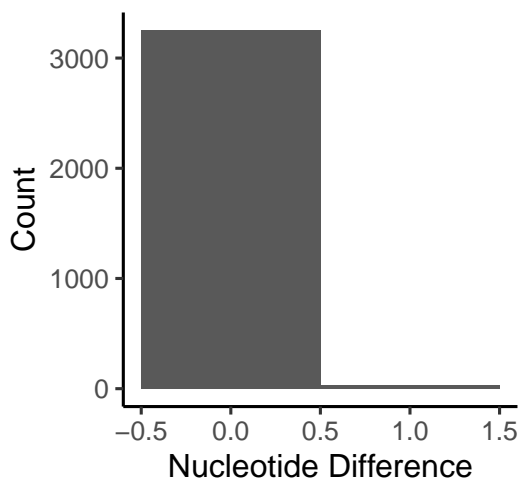
### TRBV6-8\*ap01

39 sequences assigned  
39 (100%) exact matches, in which:  
38 unique CDR3  
12 unique J



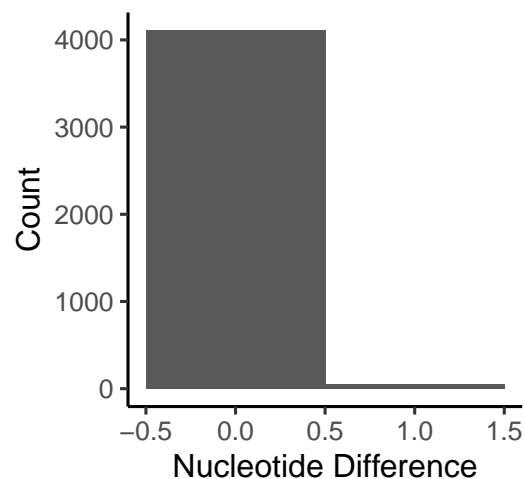
### TRBV6-56\*ap01

3285 sequences assigned  
3251 (99%) exact matches, in which:  
3207 unique CDR3  
13 unique J



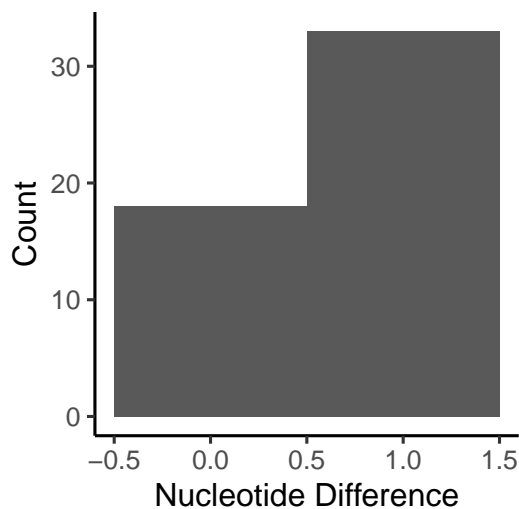
### TRBV7-2\*ap01

4164 sequences assigned  
4109 (98.7%) exact matches, in which:  
4040 unique CDR3  
13 unique J



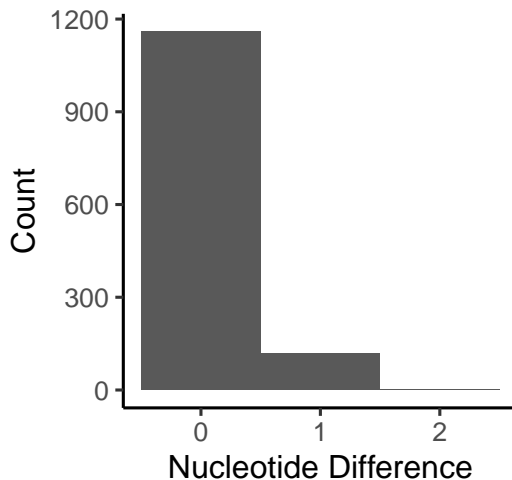
### TRBV6-9\*ap01

51 sequences assigned  
18 (35.3%) exact matches, in which:  
18 unique CDR3  
11 unique J



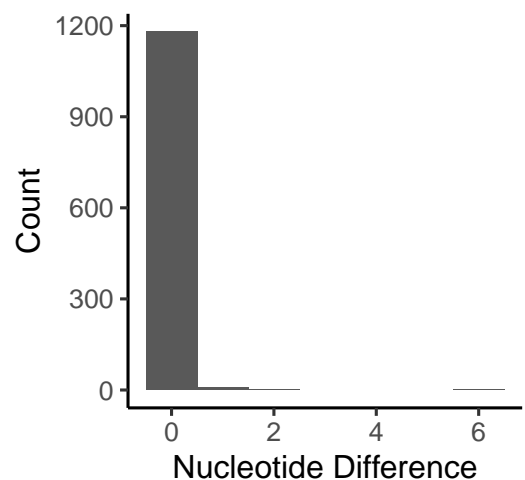
### TRBV6-56\*ap02

1279 sequences assigned  
1159 (90.6%) exact matches, in which:  
1140 unique CDR3  
13 unique J



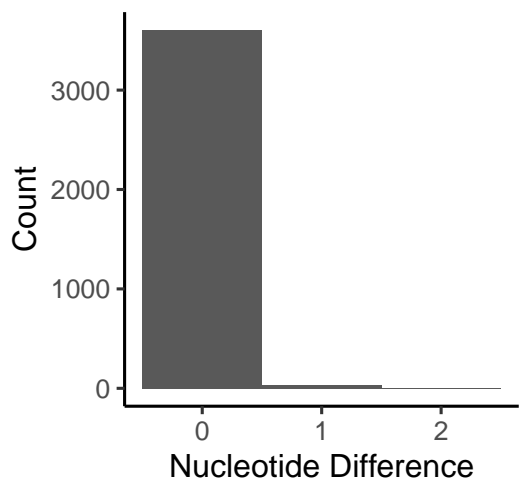
### TRBV7-3\*ap01

1191 sequences assigned  
1180 (99.1%) exact matches, in which:  
1169 unique CDR3  
13 unique J



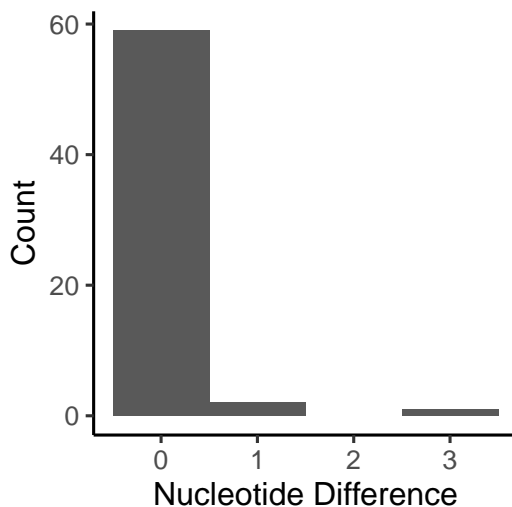
### TRBV6-23\*ap01

3643 sequences assigned  
3604 (98.9%) exact matches, in which:  
3553 unique CDR3  
13 unique J



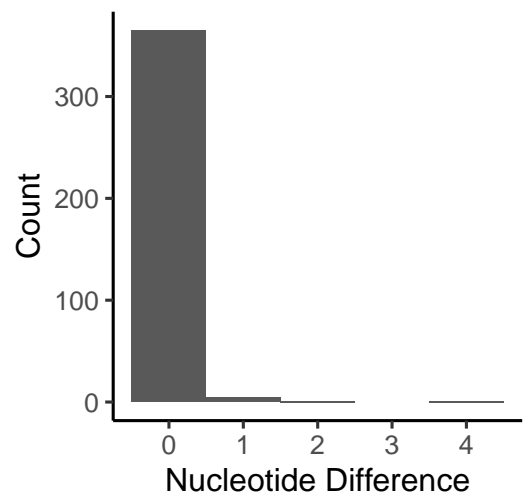
### TRBV7-1\*ap01\_G291C\_T

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



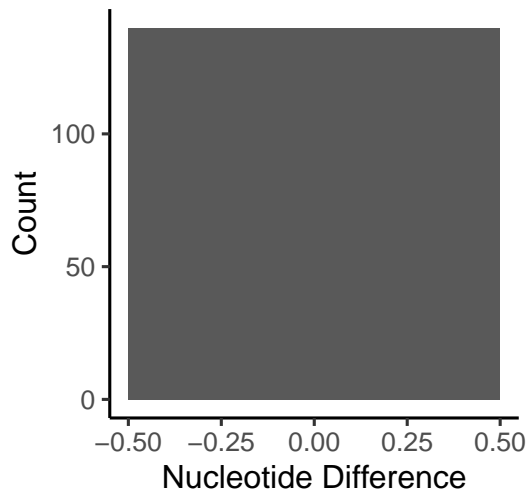
### TRBV7-3\*ap02

371 sequences assigned  
365 (98.4%) exact matches, in which:  
353 unique CDR3  
13 unique J



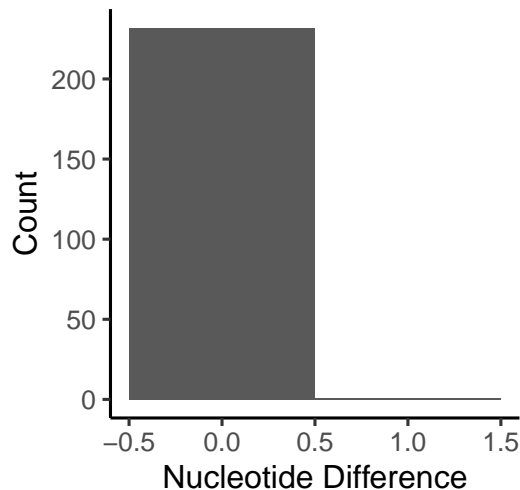
### TRBV7-4\*ap01

140 sequences assigned  
140 (100%) exact matches, in which:  
137 unique CDR3  
13 unique J



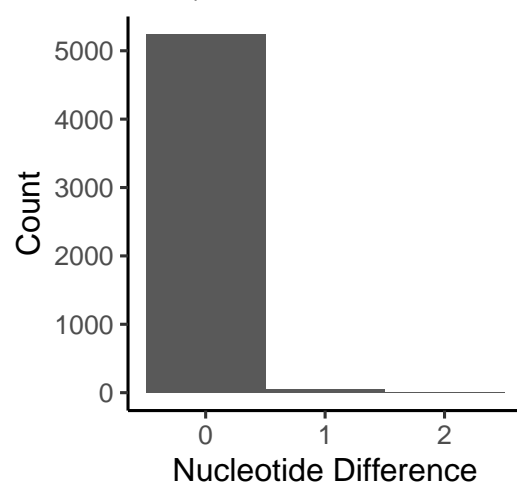
### TRBV7-7\*ap01\_C315T

233 sequences assigned  
232 (99.6%) exact matches, in which:  
228 unique CDR3  
13 unique J



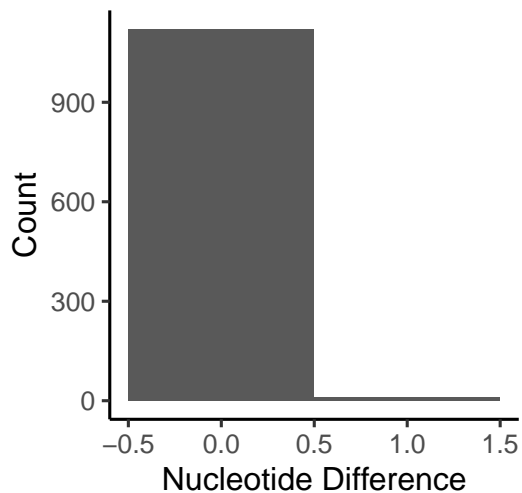
### TRBV7-9\*ap01

5300 sequences assigned  
5239 (98.8%) exact matches, in which:  
5151 unique CDR3  
13 unique J



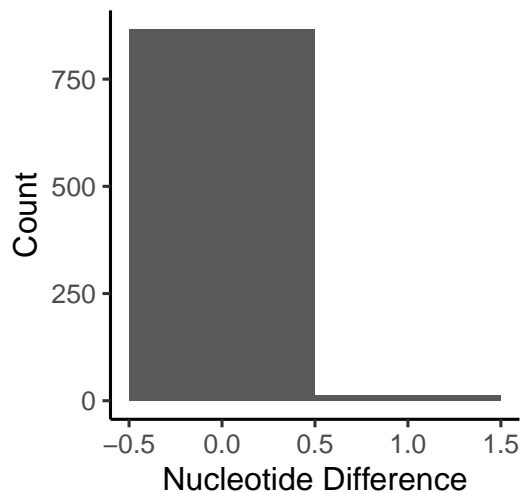
### TRBV7-6\*ap01

1131 sequences assigned  
1121 (99.1%) exact matches, in which:  
1101 unique CDR3  
13 unique J



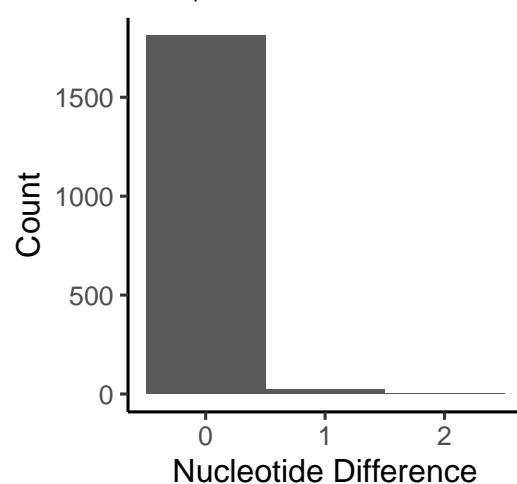
### TRBV7-8\*ap01

881 sequences assigned  
867 (98.4%) exact matches, in which:  
854 unique CDR3  
13 unique J



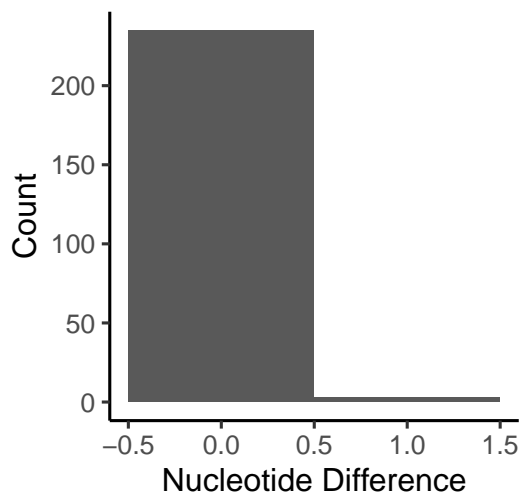
### TRBV29-1\*ap01

1837 sequences assigned  
1811 (98.6%) exact matches, in which:  
1782 unique CDR3  
13 unique J



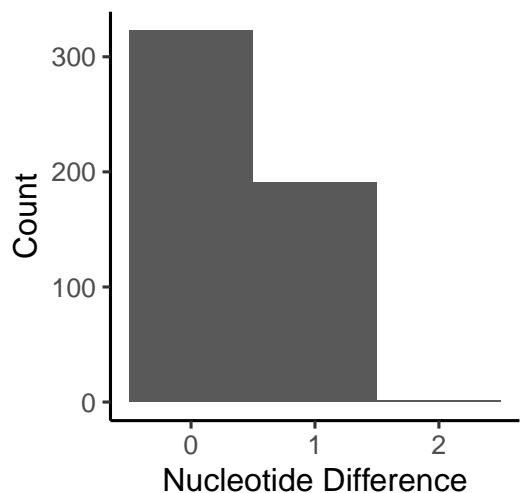
### TRBV7-7\*ap01

238 sequences assigned  
235 (98.7%) exact matches, in which:  
234 unique CDR3  
13 unique J



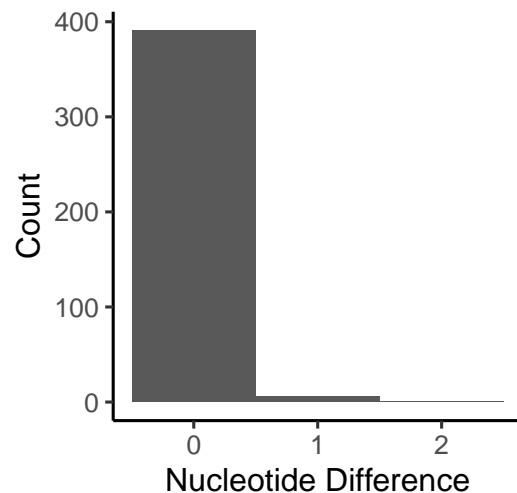
### TRBV7-8\*ap03

515 sequences assigned  
323 (62.7%) exact matches, in which:  
319 unique CDR3  
13 unique J

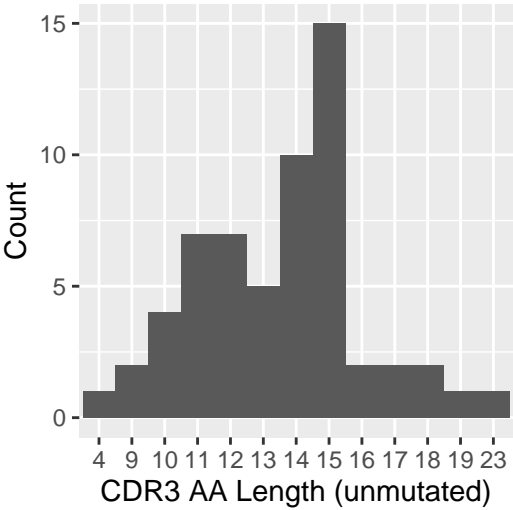


### TRBV29-1\*ap02

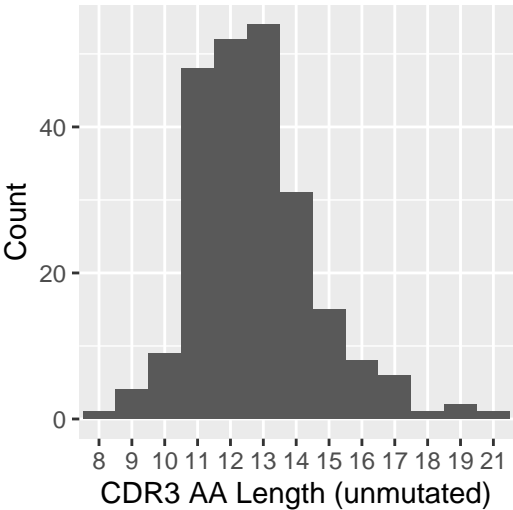
398 sequences assigned  
391 (98.2%) exact matches, in which:  
389 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





Warning – no inferred sequences found.

Warning – no inferred sequences found.