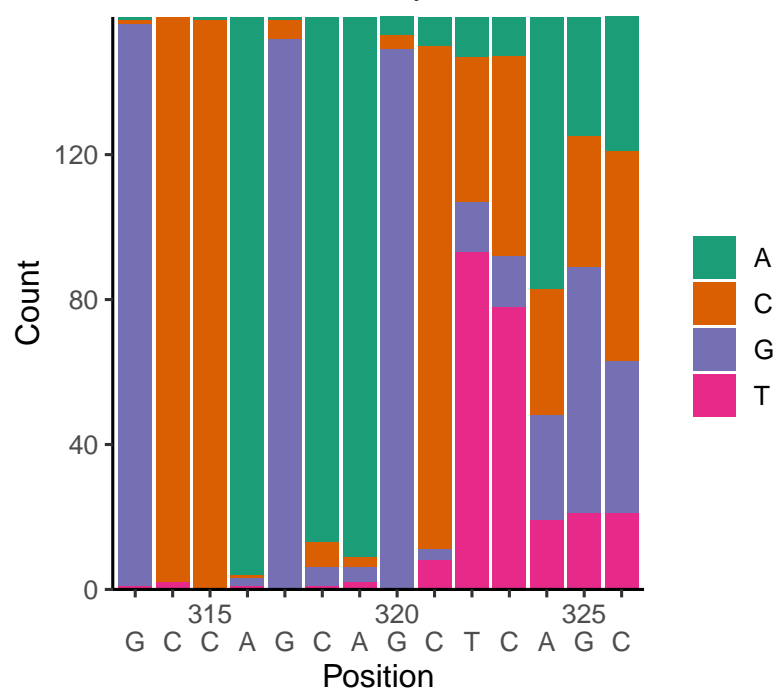
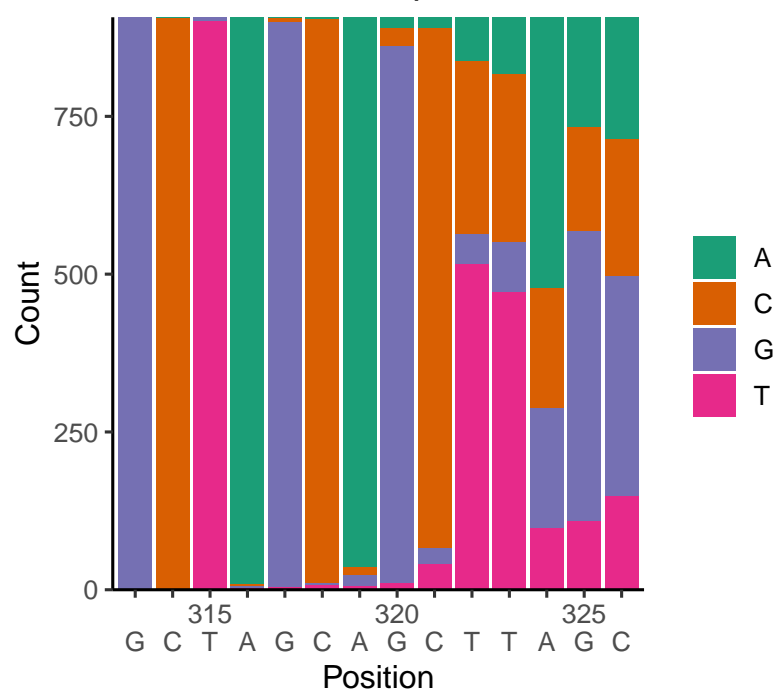


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



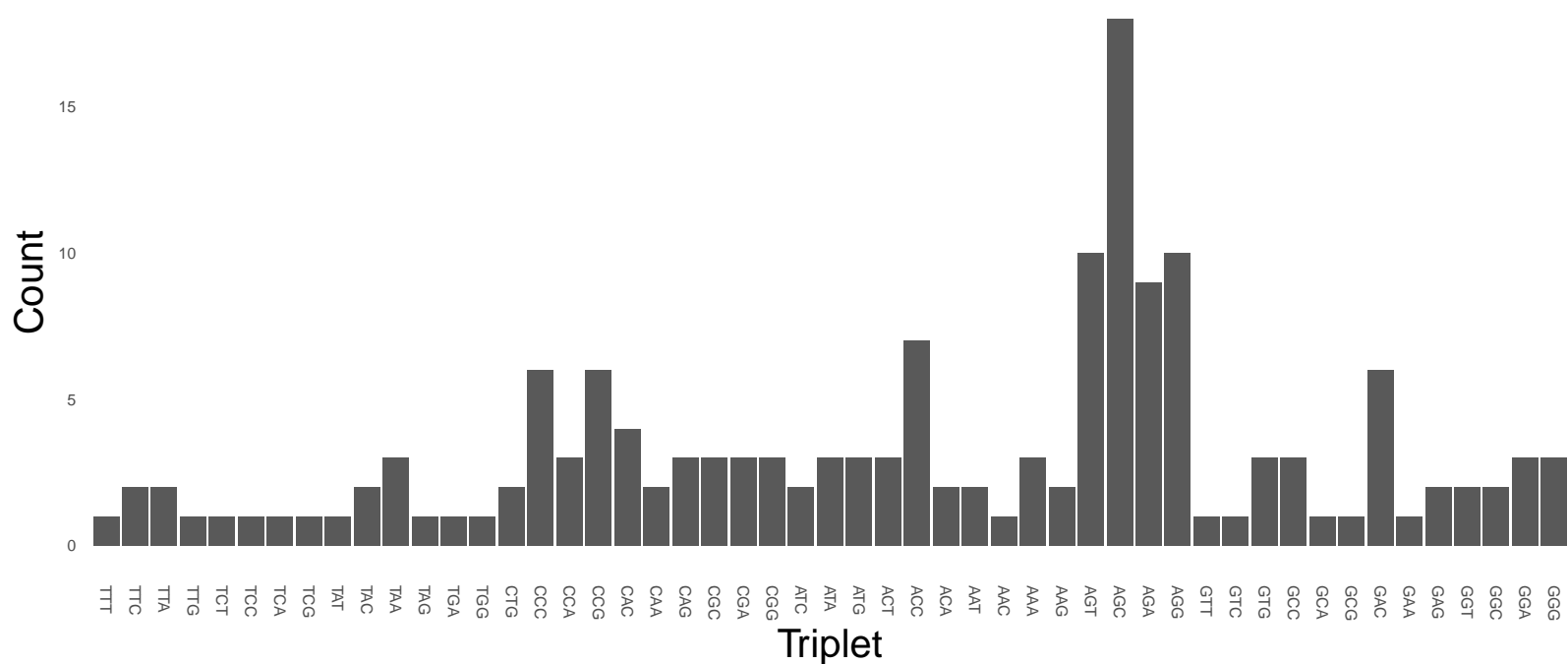
Gene TRBV7-1\*ap01\_G291C\_T296C



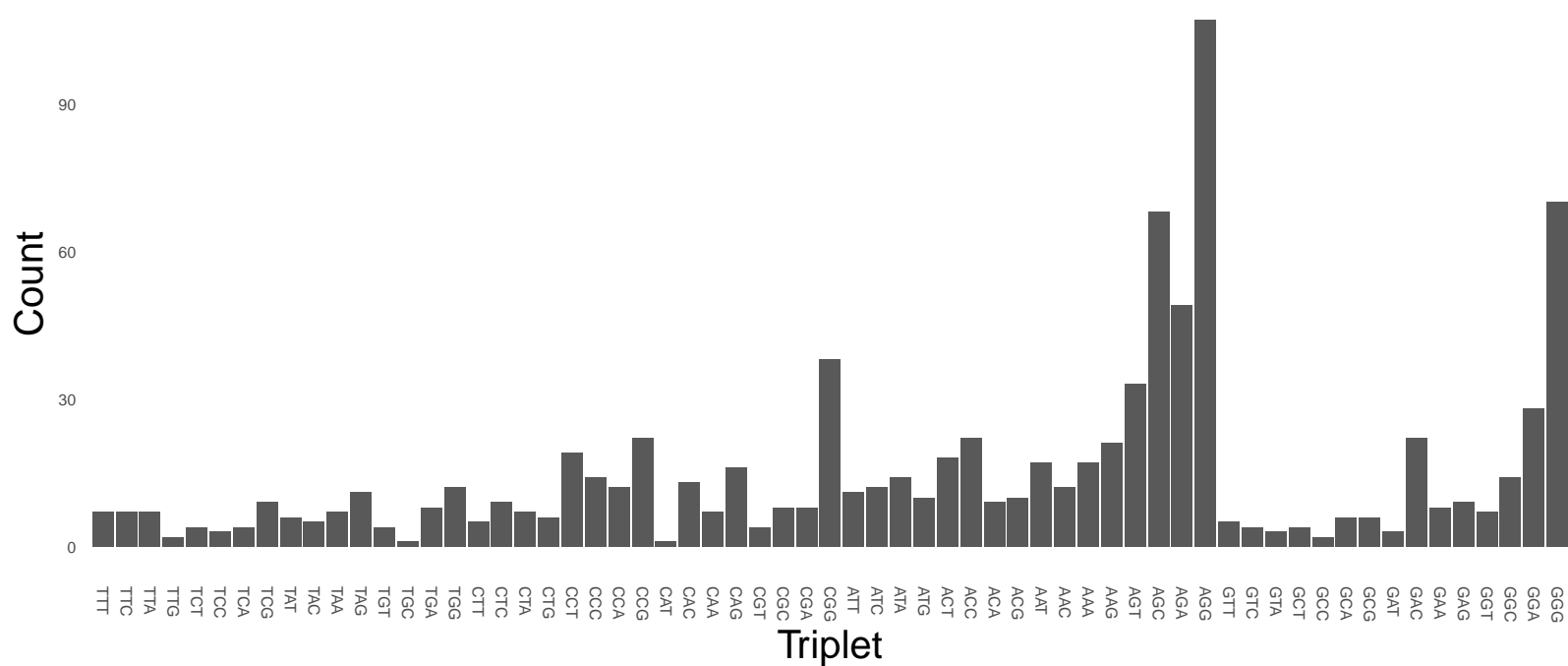
Gene TRBV7-7\*ap01\_C315T



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

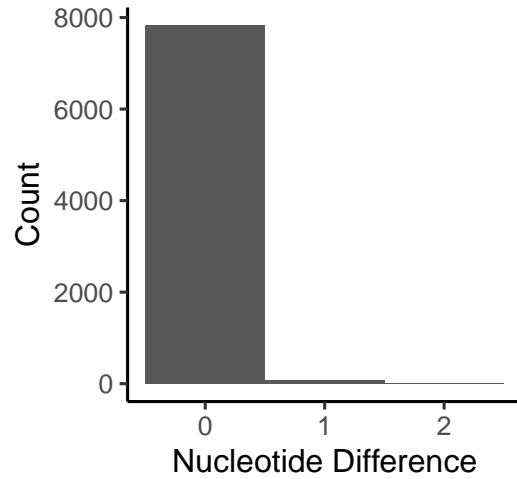


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



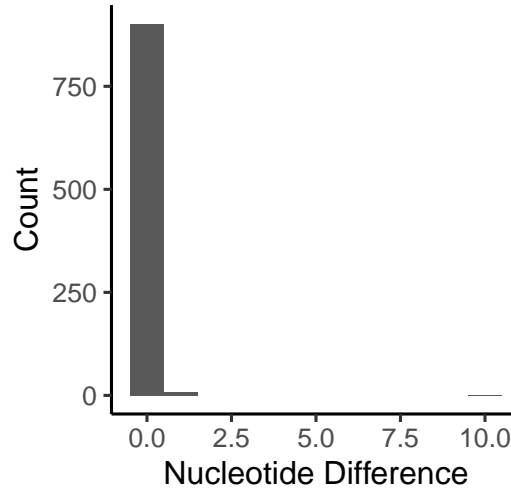
### TRBV20-1\*ap01

7912 sequences assigned  
7828 (98.9%) exact matches, in which:  
7669 unique CDR3  
13 unique J



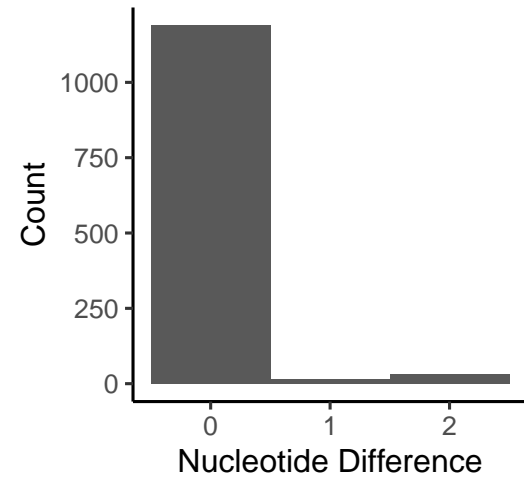
### TRBV10-2\*ap01

911 sequences assigned  
902 (99%) exact matches, in which:  
885 unique CDR3  
13 unique J



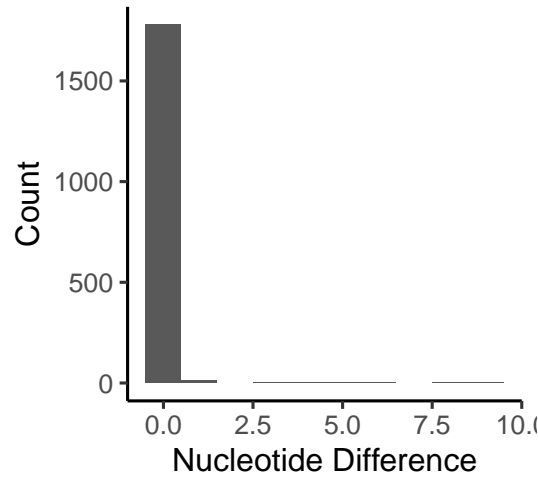
### TRBV13\*ap01

1238 sequences assigned  
1189 (96%) exact matches, in which:  
1162 unique CDR3  
13 unique J



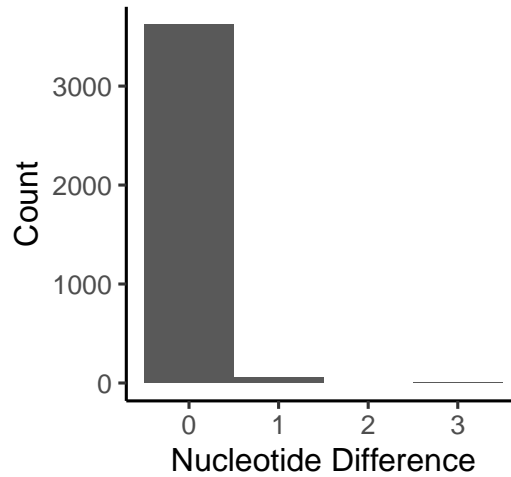
### TRBV10-1\*ap01

1801 sequences assigned  
1779 (98.8%) exact matches, in which:  
1726 unique CDR3  
13 unique J



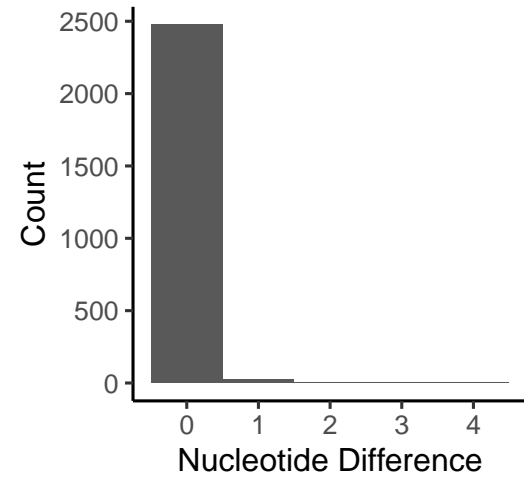
### TRBV10-3\*ap01

3674 sequences assigned  
3620 (98.5%) exact matches, in which:  
3548 unique CDR3  
13 unique J



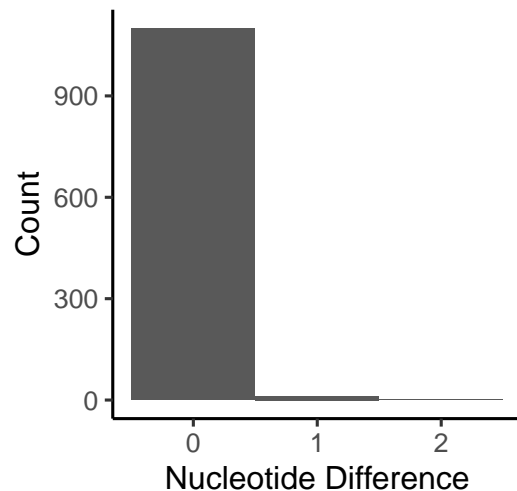
### TRBV14\*ap01

2503 sequences assigned  
2476 (98.9%) exact matches, in which:  
2415 unique CDR3  
13 unique J



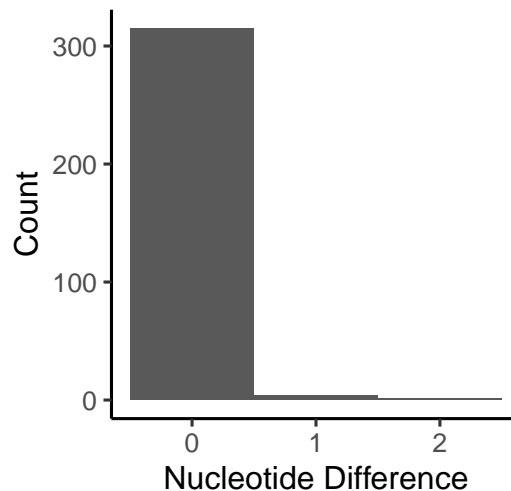
### TRBV20-1\*ap02

1113 sequences assigned  
1100 (98.8%) exact matches, in which:  
1080 unique CDR3  
13 unique J



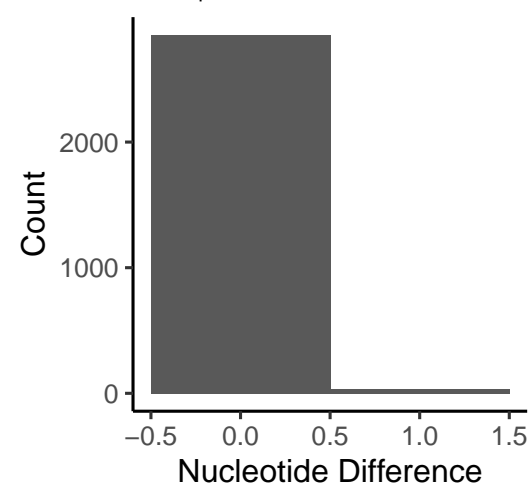
### TRBV1\*ap01

320 sequences assigned  
315 (98.4%) exact matches, in which:  
308 unique CDR3  
13 unique J



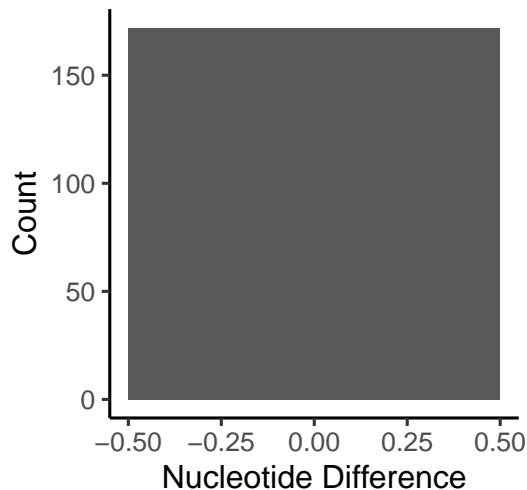
### TRBV15\*ap02

2888 sequences assigned  
2852 (98.8%) exact matches, in which:  
2777 unique CDR3  
13 unique J



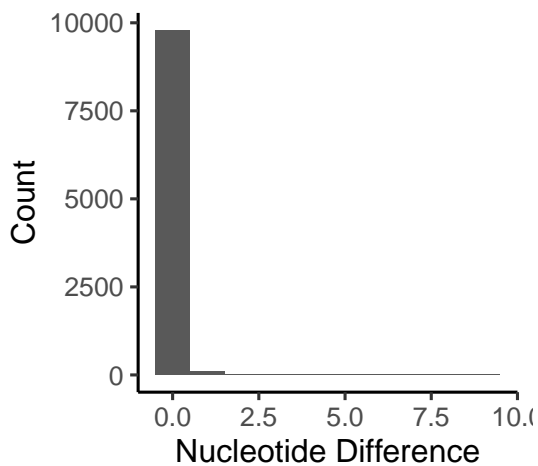
### TRBV16\*ap01

172 sequences assigned  
172 (100%) exact matches, in which:  
169 unique CDR3  
13 unique J



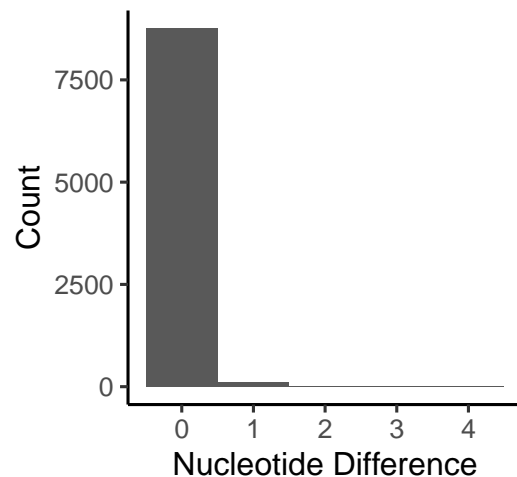
### TRBV19\*ap01

9923 sequences assigned  
9791 (98.7%) exact matches, in which:  
9635 unique CDR3  
13 unique J



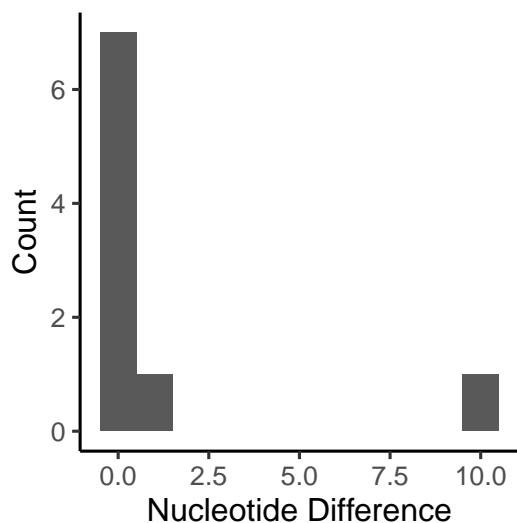
### TRBV28\*ap01

8866 sequences assigned  
8758 (98.8%) exact matches, in which:  
8581 unique CDR3  
13 unique J



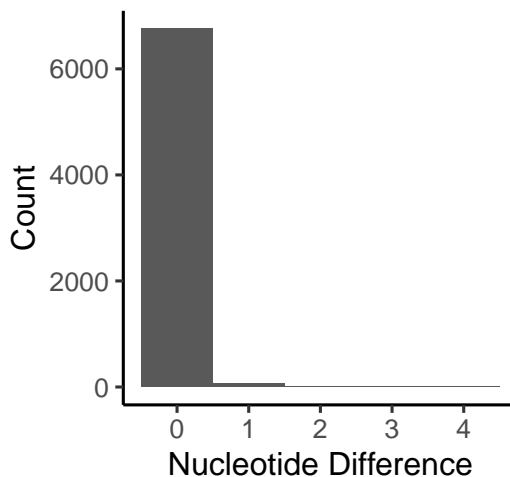
### TRBV17\*ap01

9 sequences assigned  
7 (77.8%) exact matches, in which:  
6 unique CDR3  
5 unique J



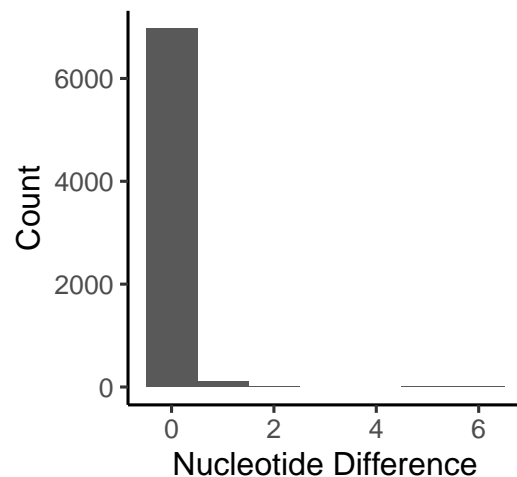
### TRBV2\*ap01

6838 sequences assigned  
6757 (98.8%) exact matches, in which:  
6631 unique CDR3  
13 unique J



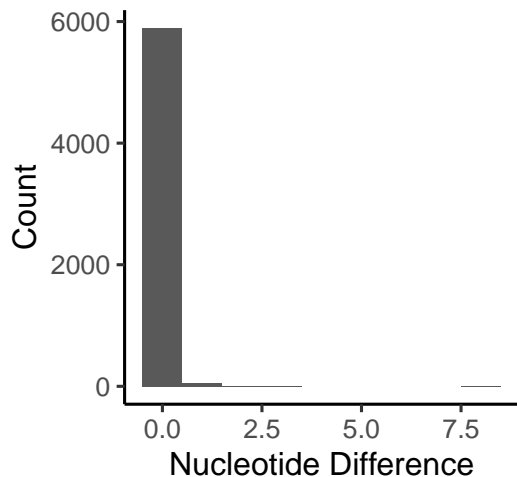
### TRBV30\*ap01

7095 sequences assigned  
6967 (98.2%) exact matches, in which:  
6894 unique CDR3  
13 unique J



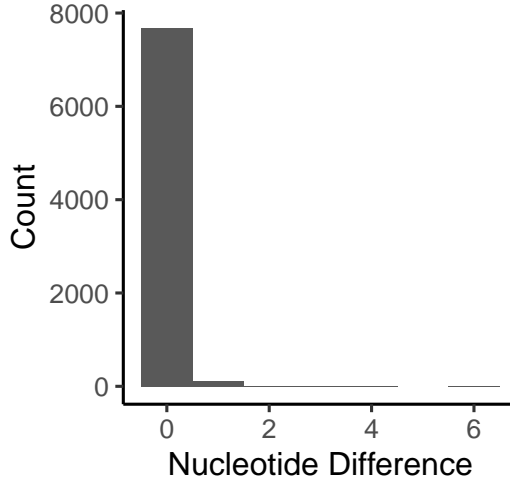
### TRBV18\*ap01

5946 sequences assigned  
5893 (99.1%) exact matches, in which:  
5807 unique CDR3  
13 unique J



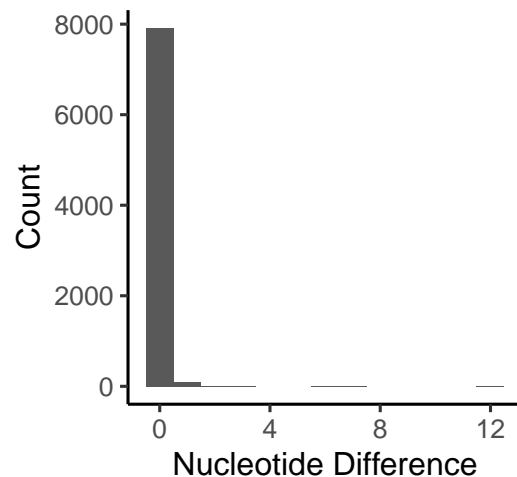
### TRBV27\*ap01

7798 sequences assigned  
7678 (98.5%) exact matches, in which:  
7484 unique CDR3  
13 unique J



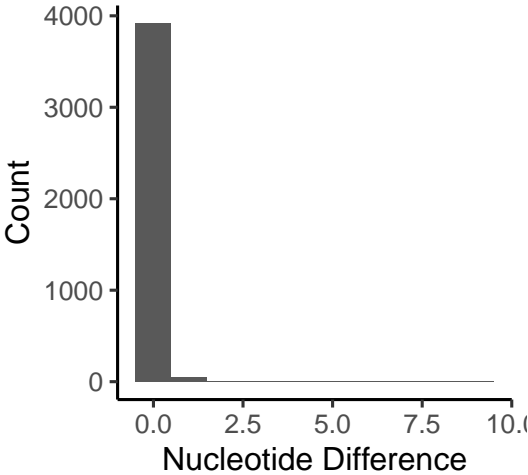
### TRBV9\*ap01

8018 sequences assigned  
7914 (98.7%) exact matches, in which:  
7744 unique CDR3  
13 unique J



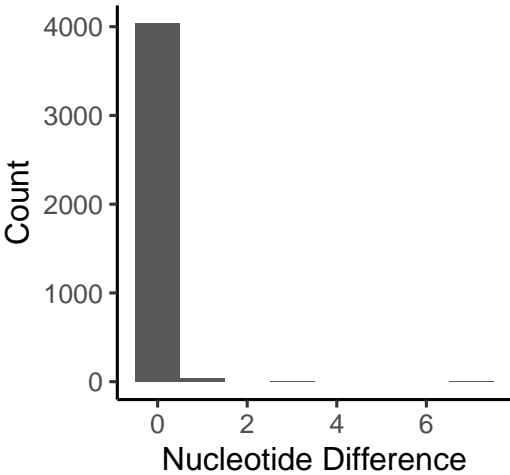
TRBV21-1\*ap01

3988 sequences assigned  
3917 (98.2%) exact matches, in which:  
3857 unique CDR3  
13 unique J



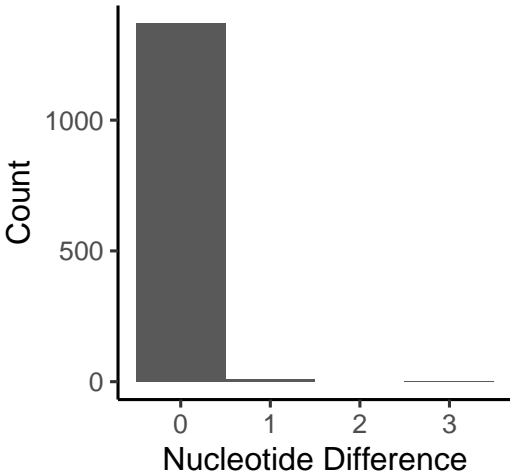
TRBV11-3\*ap01

4079 sequences assigned  
4037 (99%) exact matches, in which:  
3942 unique CDR3  
13 unique J



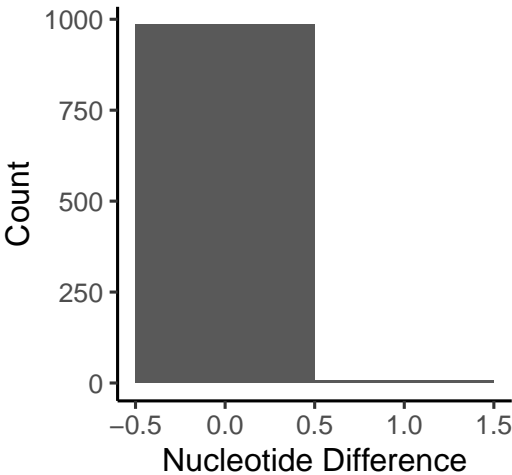
TRBV12-5\*ap01

1380 sequences assigned  
1370 (99.3%) exact matches, in which:  
1339 unique CDR3  
13 unique J



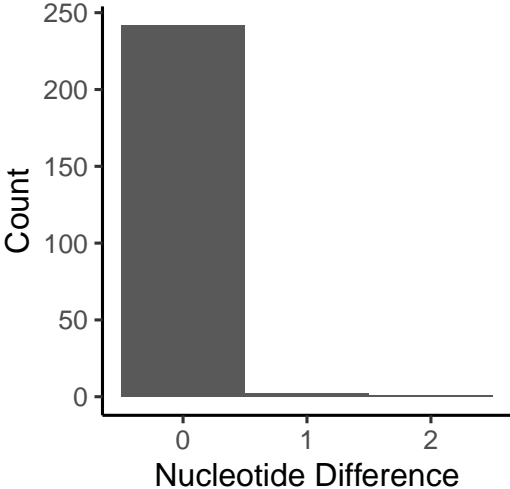
TRBV11-1\*ap01

993 sequences assigned  
985 (99.2%) exact matches, in which:  
961 unique CDR3  
13 unique J



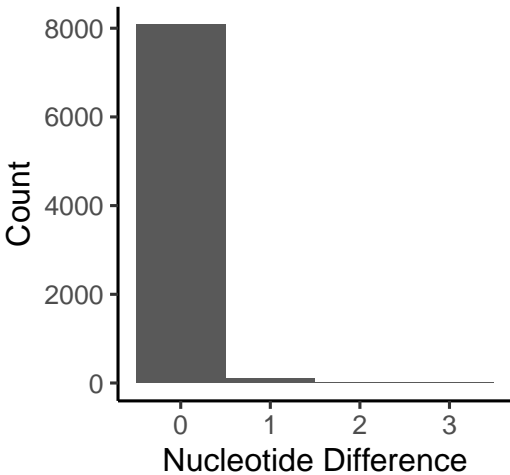
TRBV12-1\*ap01

245 sequences assigned  
242 (98.8%) exact matches, in which:  
237 unique CDR3  
13 unique J



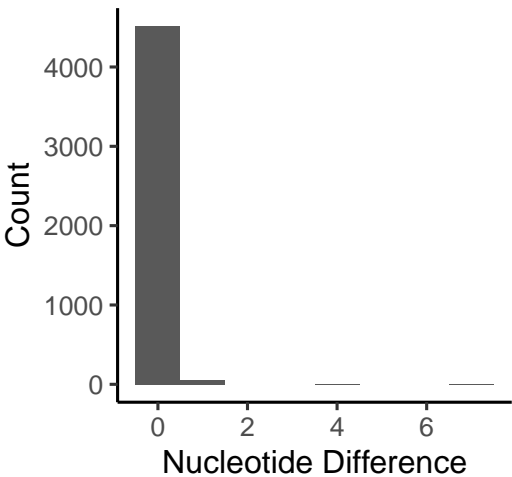
TRBV12-34\*ap01

8178 sequences assigned  
8079 (98.8%) exact matches, in which:  
7926 unique CDR3  
13 unique J



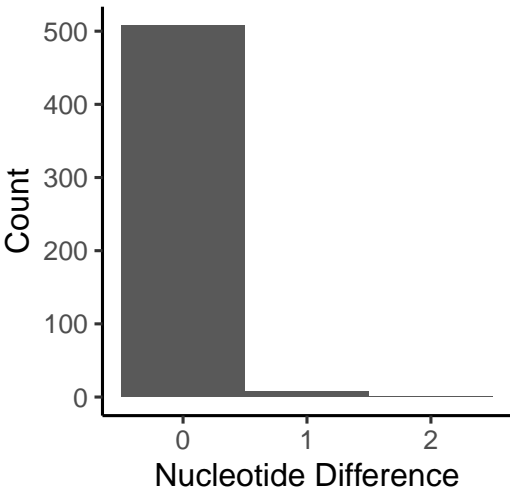
TRBV11-2\*ap01

4576 sequences assigned  
4516 (98.7%) exact matches, in which:  
4423 unique CDR3  
13 unique J



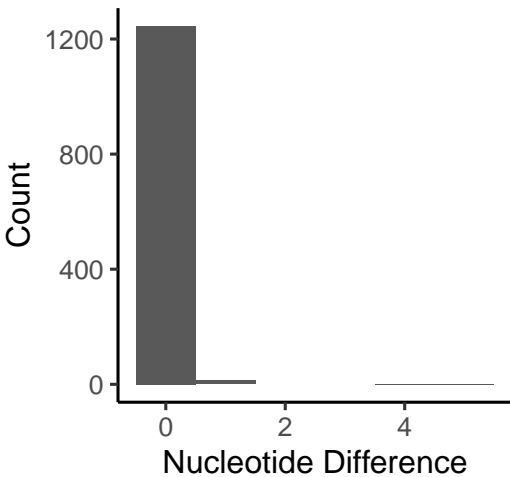
TRBV12-2\*ap01

517 sequences assigned  
508 (98.3%) exact matches, in which:  
494 unique CDR3  
13 unique J



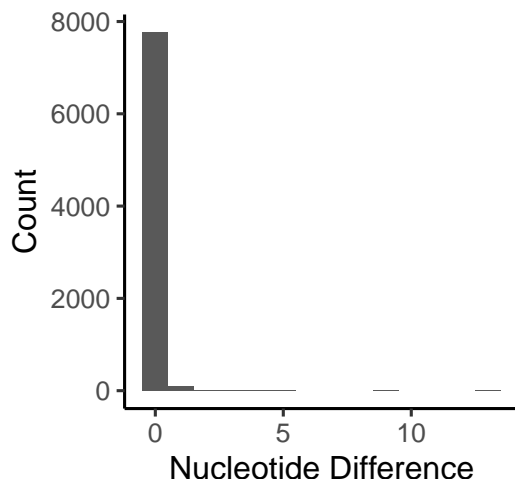
TRBV23-1\*ap01

1261 sequences assigned  
1245 (98.7%) exact matches, in which:  
1219 unique CDR3  
13 unique J



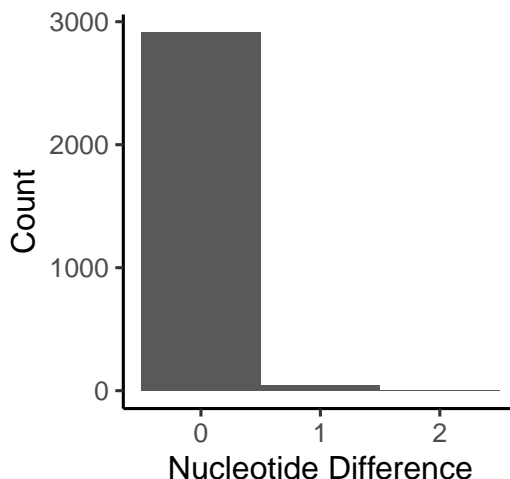
### TRBV3-12\*ap01

7871 sequences assigned  
7764 (98.6%) exact matches, in which:  
7608 unique CDR3  
14 unique J



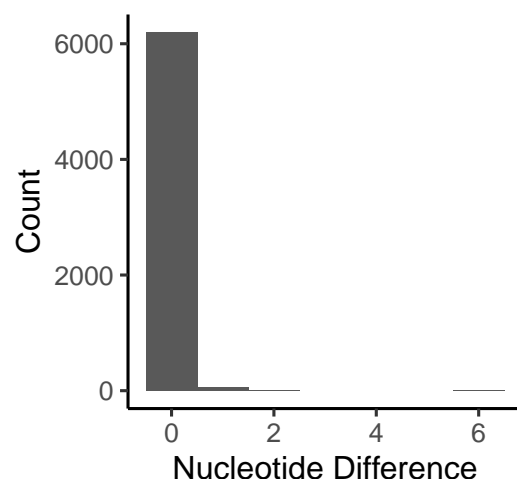
### TRBV4-2\*ap01

2958 sequences assigned  
2913 (98.5%) exact matches, in which:  
2854 unique CDR3  
13 unique J



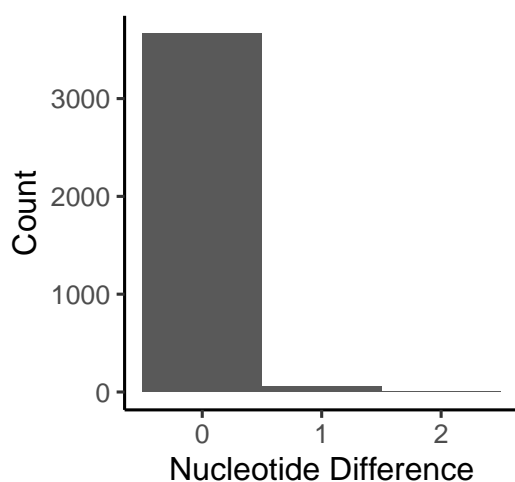
### TRBV5-1\*ap01

6265 sequences assigned  
6196 (98.9%) exact matches, in which:  
6041 unique CDR3  
13 unique J



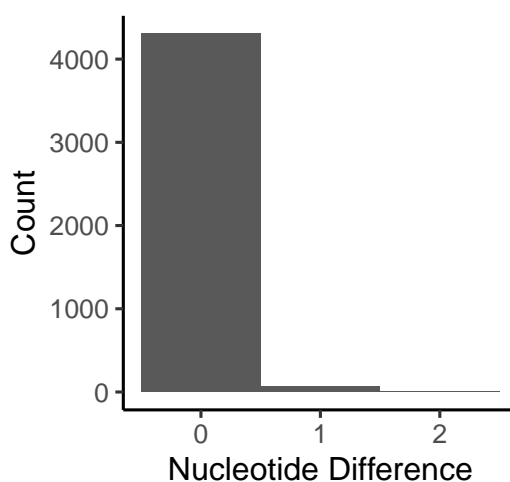
### TRBV4-1\*ap01

3721 sequences assigned  
3663 (98.4%) exact matches, in which:  
3607 unique CDR3  
13 unique J



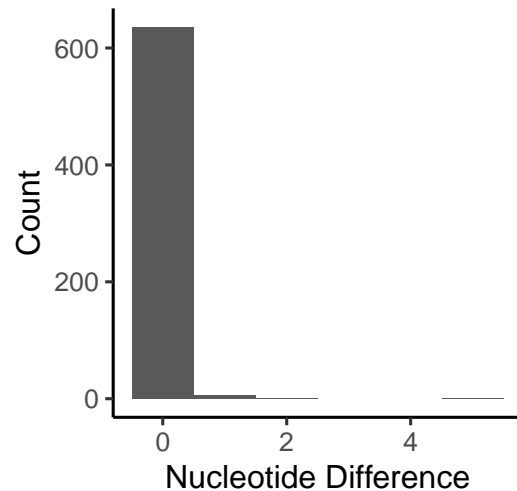
### TRBV4-3\*ap01

4371 sequences assigned  
4305 (98.5%) exact matches, in which:  
4238 unique CDR3  
13 unique J



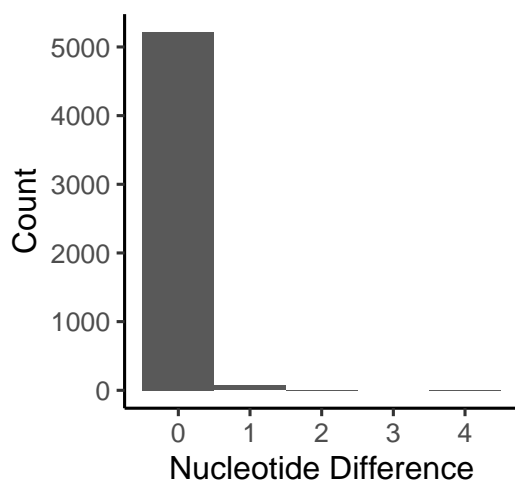
### TRBV5-3\*ap01

644 sequences assigned  
636 (98.8%) exact matches, in which:  
617 unique CDR3  
13 unique J



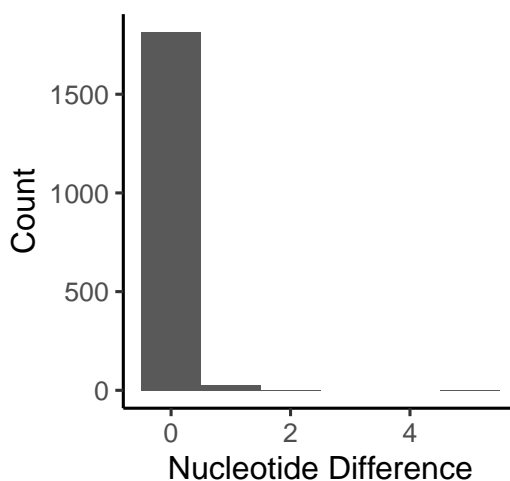
### TRBV24-1\*ap01

5290 sequences assigned  
5217 (98.6%) exact matches, in which:  
5143 unique CDR3  
14 unique J



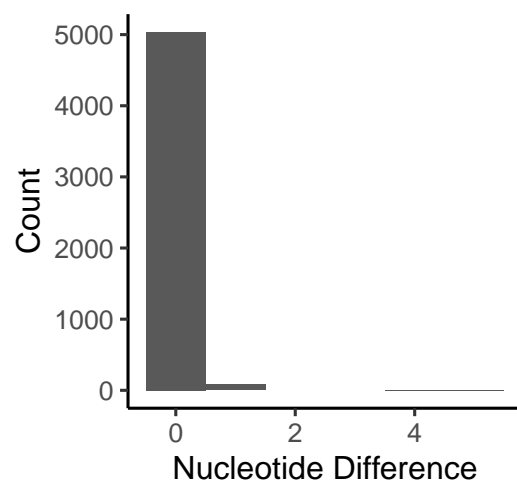
### TRBV25-1\*ap01

1846 sequences assigned  
1815 (98.3%) exact matches, in which:  
1790 unique CDR3  
13 unique J



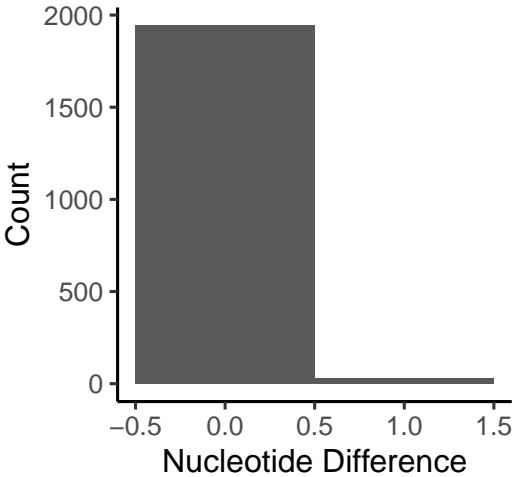
### TRBV5-4\*ap01

5123 sequences assigned  
5036 (98.3%) exact matches, in which:  
4938 unique CDR3  
13 unique J



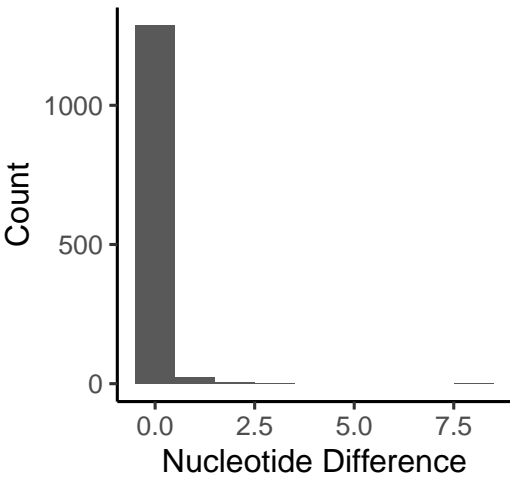
TRBV5-5\*ap01

1972 sequences assigned  
1944 (98.6%) exact matches, in which:  
1925 unique CDR3  
13 unique J



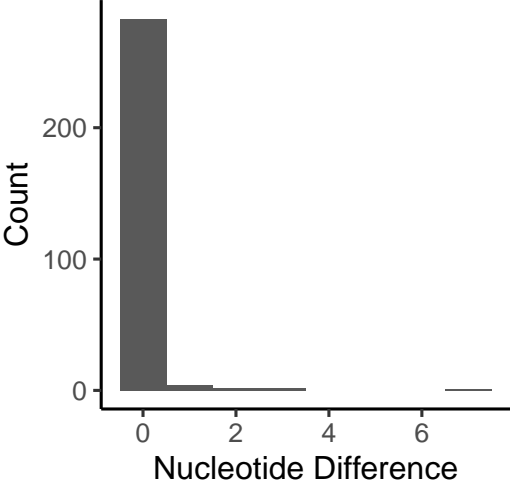
TRBV5-8\*ap01

1321 sequences assigned  
1287 (97.4%) exact matches, in which:  
1259 unique CDR3  
13 unique J



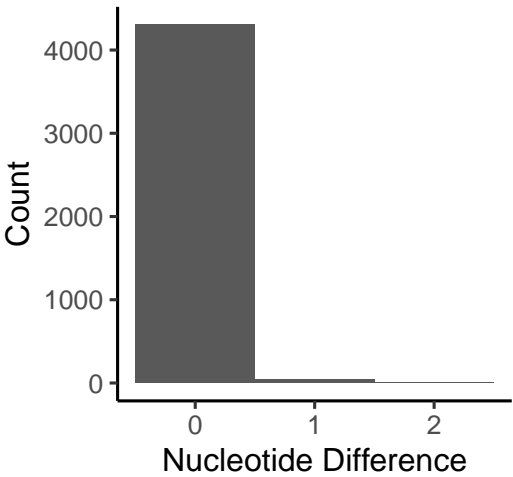
TRBV6-7\*ap01

292 sequences assigned  
283 (96.9%) exact matches, in which:  
275 unique CDR3  
13 unique J



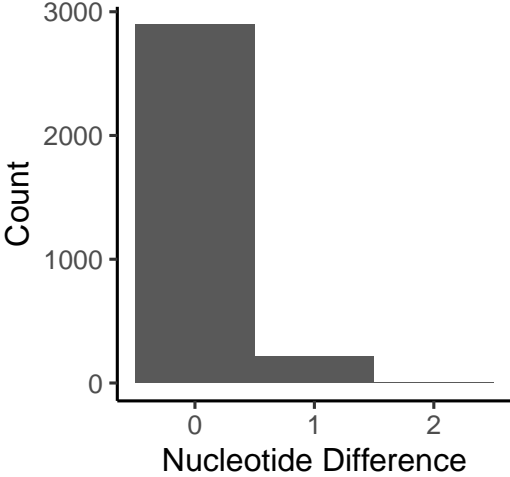
TRBV5-6\*ap01

4353 sequences assigned  
4304 (98.9%) exact matches, in which:  
4242 unique CDR3  
13 unique J



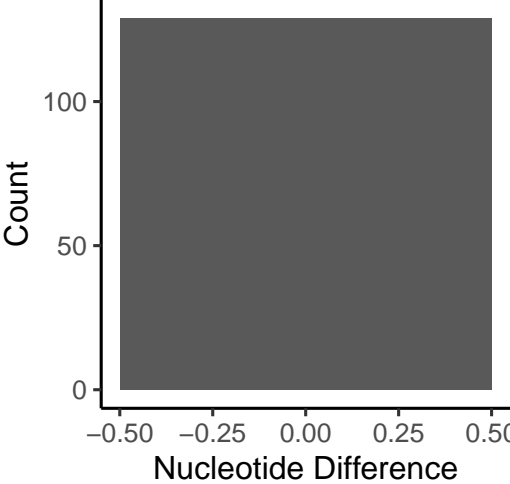
TRBV6-1\*ap01

3108 sequences assigned  
2895 (93.1%) exact matches, in which:  
2839 unique CDR3  
13 unique J



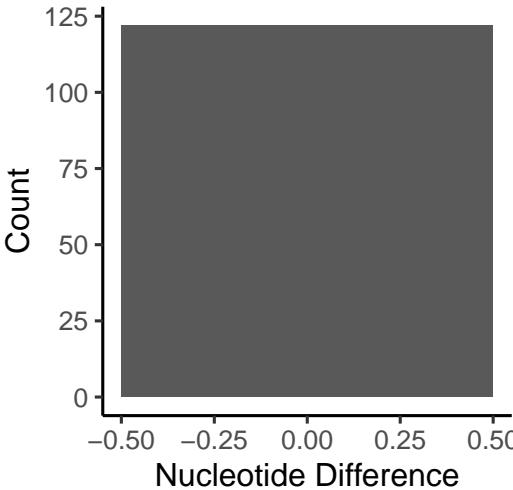
TRBV6-8\*ap01

129 sequences assigned  
129 (100%) exact matches, in which:  
128 unique CDR3  
13 unique J



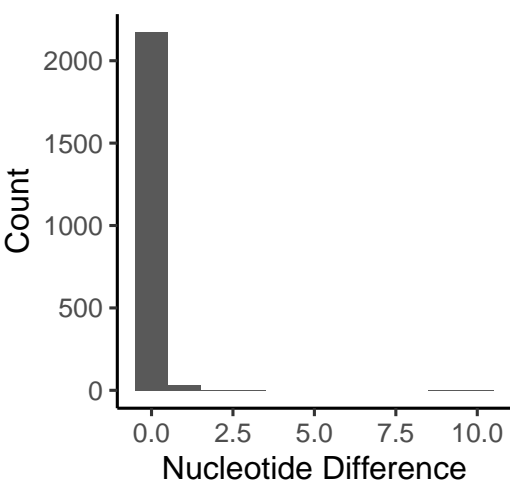
TRBV5-7\*ap01

122 sequences assigned  
122 (100%) exact matches, in which:  
118 unique CDR3  
13 unique J



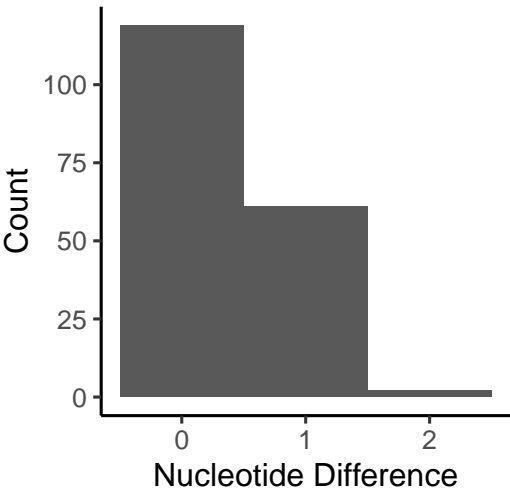
TRBV6-4\*ap01

2212 sequences assigned  
2174 (98.3%) exact matches, in which:  
2131 unique CDR3  
13 unique J



TRBV6-9\*ap01

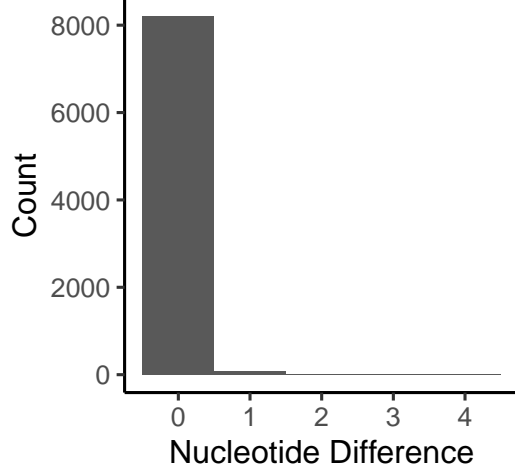
182 sequences assigned  
119 (65.4%) exact matches, in which:  
114 unique CDR3  
12 unique J





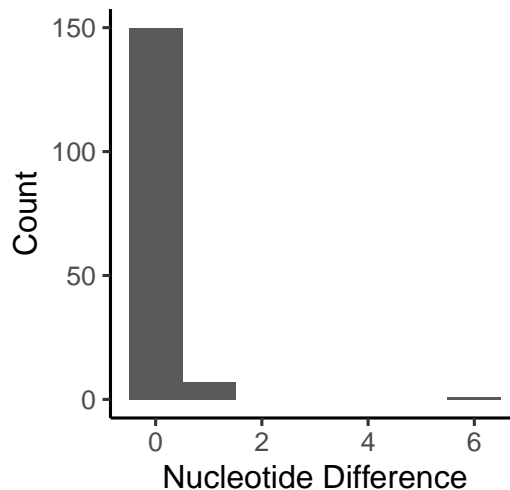
### TRBV6-23\*ap01

8292 sequences assigned  
8201 (98.9%) exact matches, in which:  
8063 unique CDR3  
13 unique J



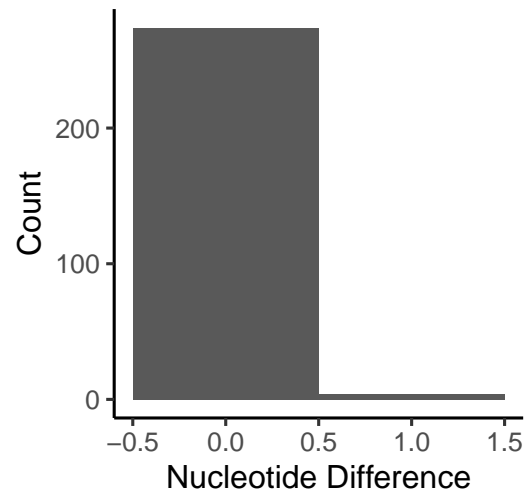
### TRBV7-1\*ap01\_G291C\_

158 sequences assigned  
150 (94.9%) exact matches, in which:  
147 unique CDR3  
13 unique J



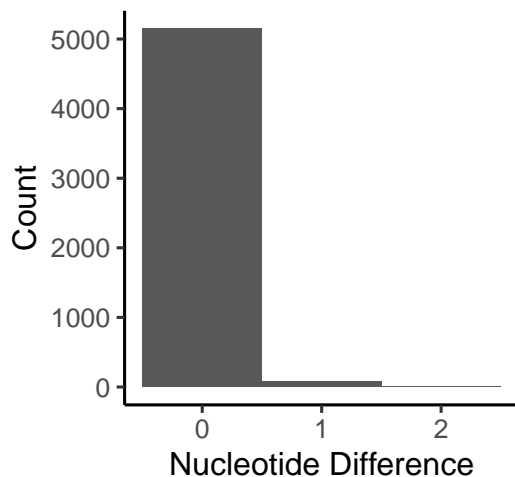
### TRBV7-4\*ap01

278 sequences assigned  
274 (98.6%) exact matches, in which:  
268 unique CDR3  
13 unique J



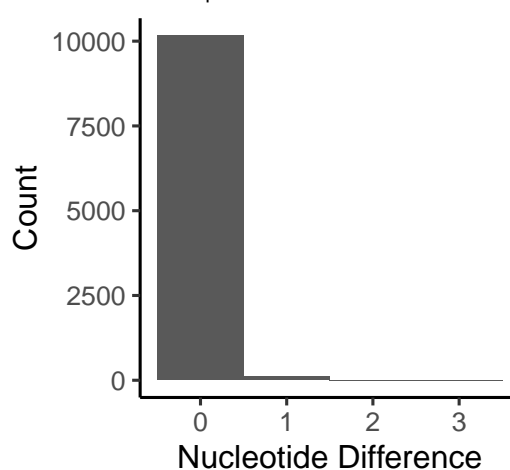
### TRBV6-56\*ap01

5232 sequences assigned  
5148 (98.4%) exact matches, in which:  
5029 unique CDR3  
13 unique J



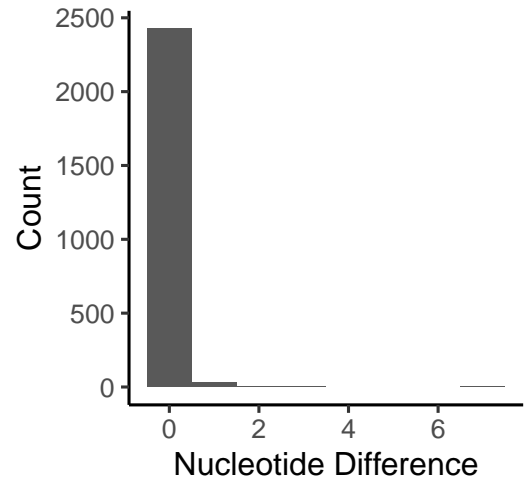
### TRBV7-2\*ap01

10283 sequences assigned  
10168 (98.9%) exact matches, in which:  
9950 unique CDR3  
13 unique J



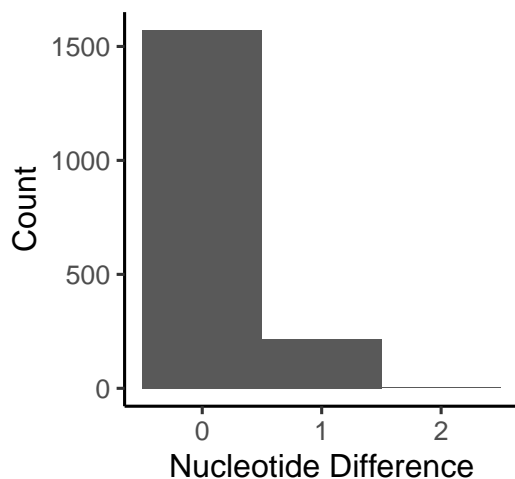
### TRBV7-6\*ap01

2462 sequences assigned  
2426 (98.5%) exact matches, in which:  
2366 unique CDR3  
13 unique J



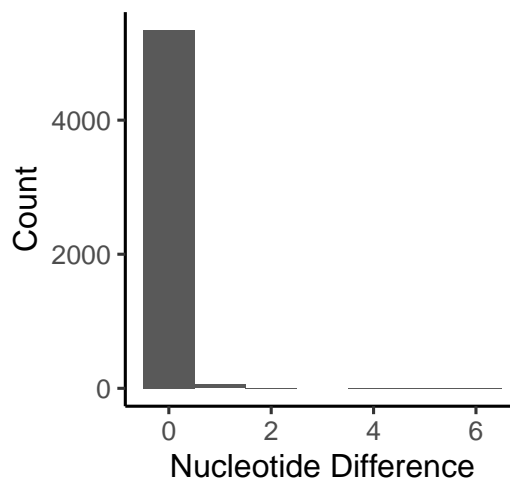
### TRBV6-56\*ap02

1793 sequences assigned  
1572 (87.7%) exact matches, in which:  
1545 unique CDR3  
13 unique J



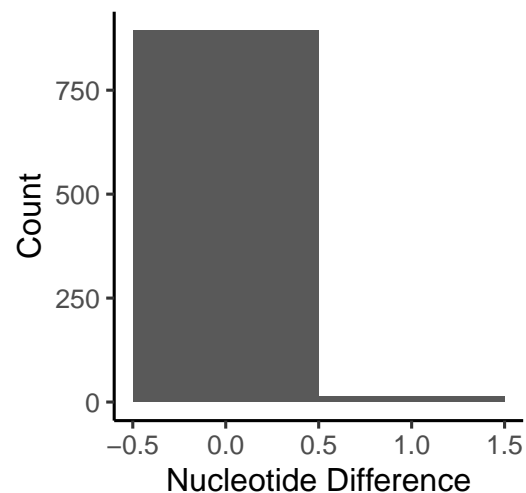
### TRBV7-3\*ap01

5407 sequences assigned  
5344 (98.8%) exact matches, in which:  
5232 unique CDR3  
14 unique J



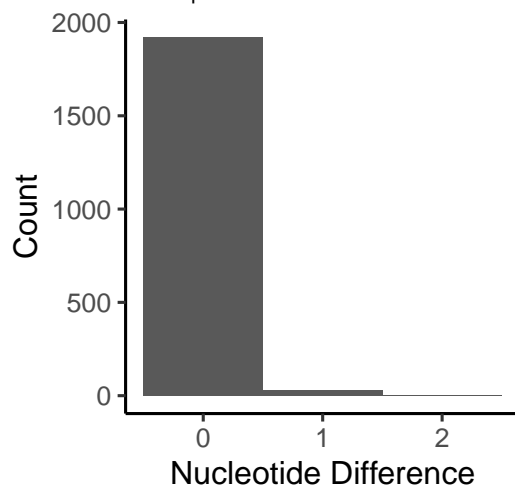
### TRBV7-7\*ap01\_C315T

907 sequences assigned  
894 (98.6%) exact matches, in which:  
876 unique CDR3  
13 unique J



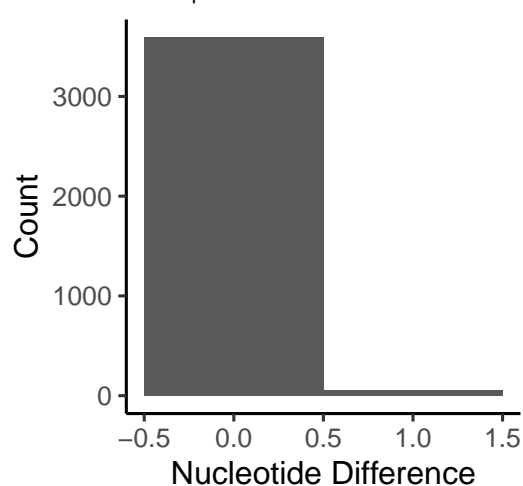
### TRBV7-8\*ap01

1949 sequences assigned  
1920 (98.5%) exact matches, in which:  
1877 unique CDR3  
13 unique J



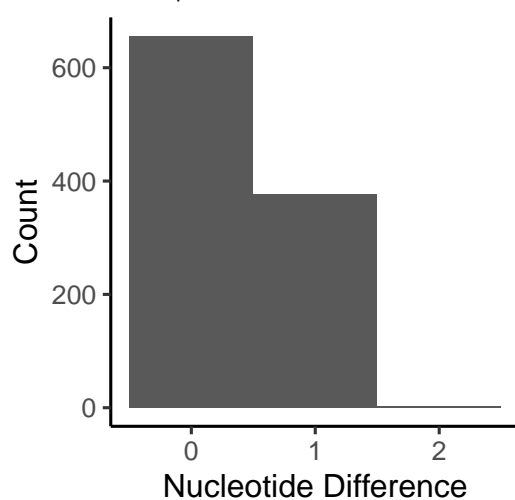
### TRBV29-1\*ap01

3651 sequences assigned  
3592 (98.4%) exact matches, in which:  
3536 unique CDR3  
13 unique J



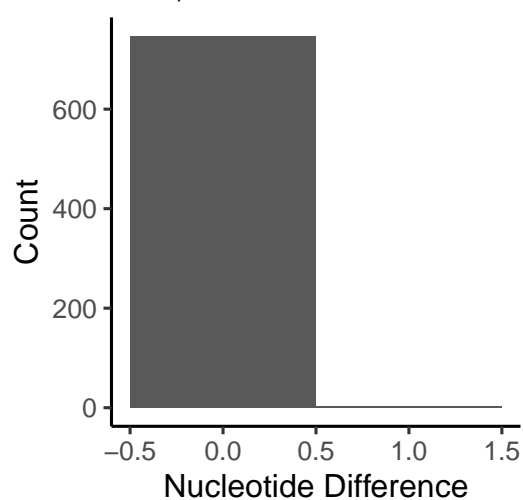
### TRBV7-8\*ap03

1036 sequences assigned  
656 (63.3%) exact matches, in which:  
647 unique CDR3  
13 unique J



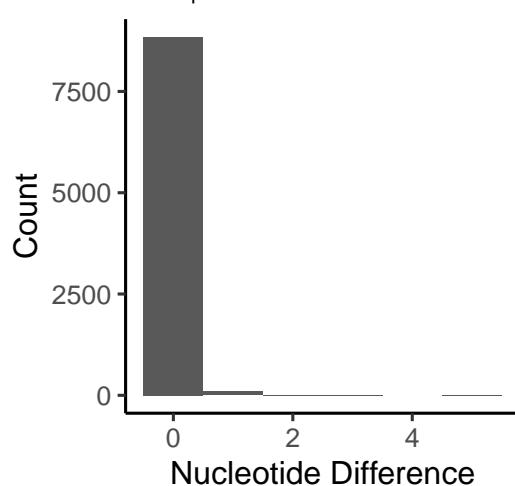
### TRBV29-1\*ap02

750 sequences assigned  
747 (99.6%) exact matches, in which:  
738 unique CDR3  
13 unique J

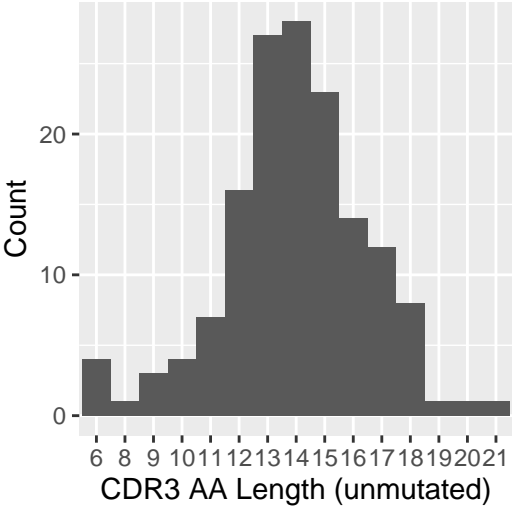


### TRBV7-9\*ap01

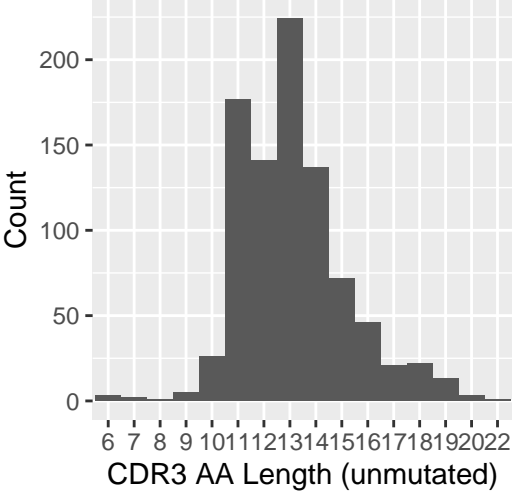
8938 sequences assigned  
8842 (98.9%) exact matches, in which:  
8684 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]