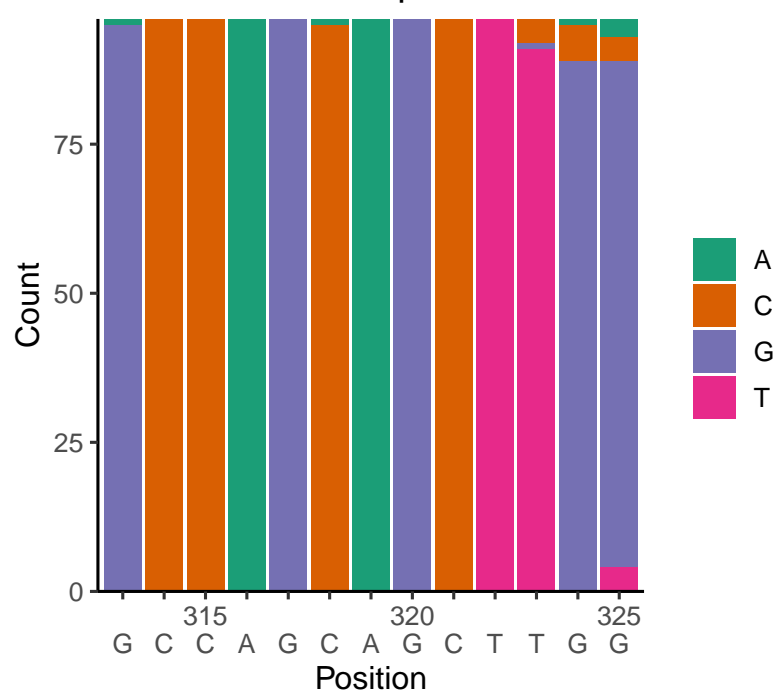
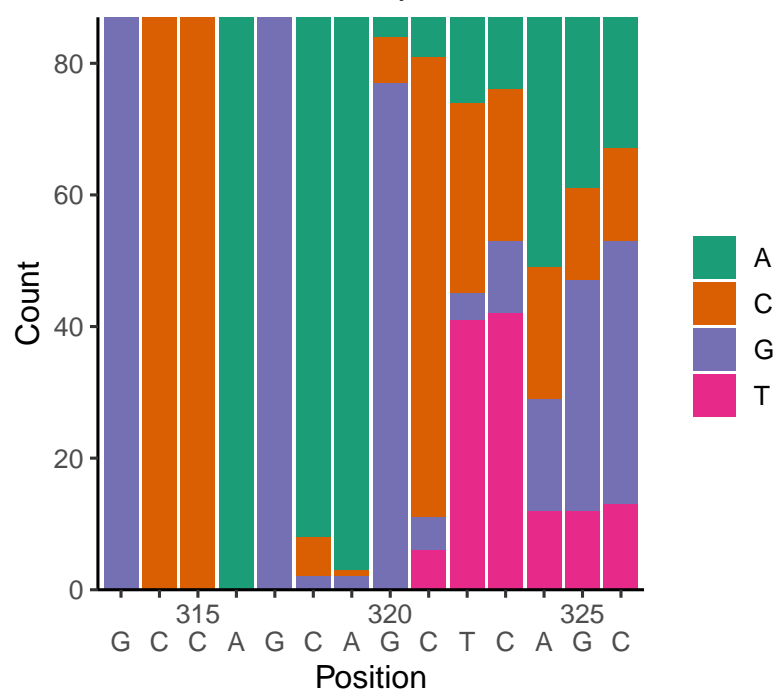


Gene TRBV5-7\*ap01\_G290A\_G291A



Gene TRBV7-1\*ap01\_G291C\_T296C



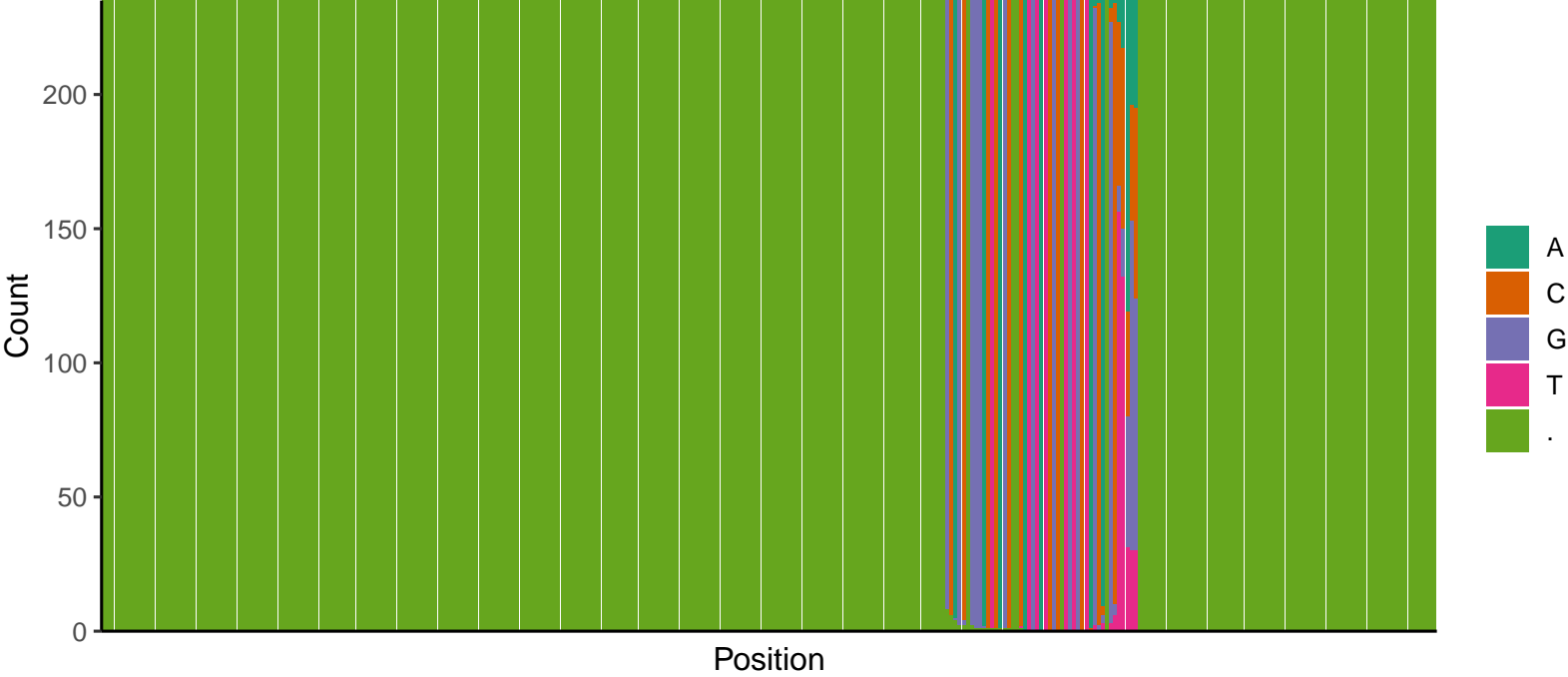
Gene TRBV5-7\*ap01\_G290A\_G291A



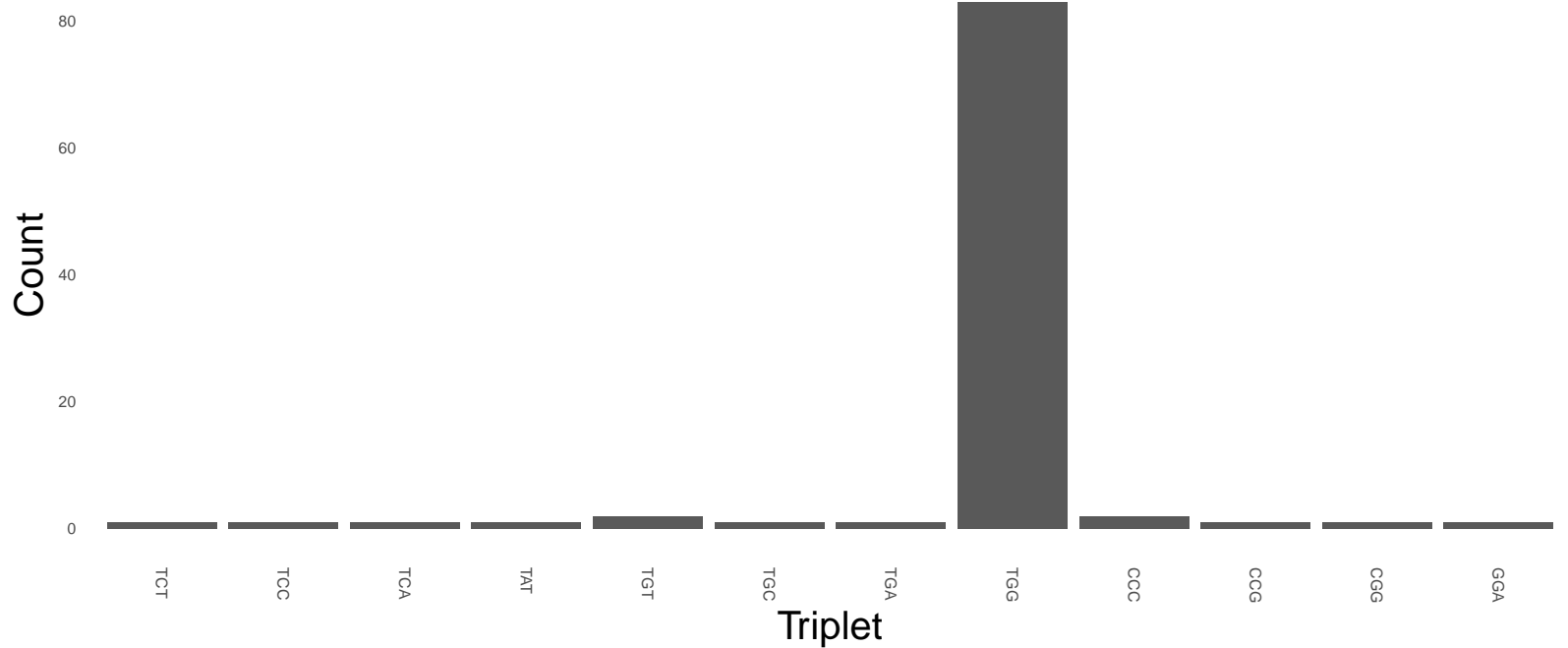
Gene TRBV7-1\*ap01\_G291C\_T296C



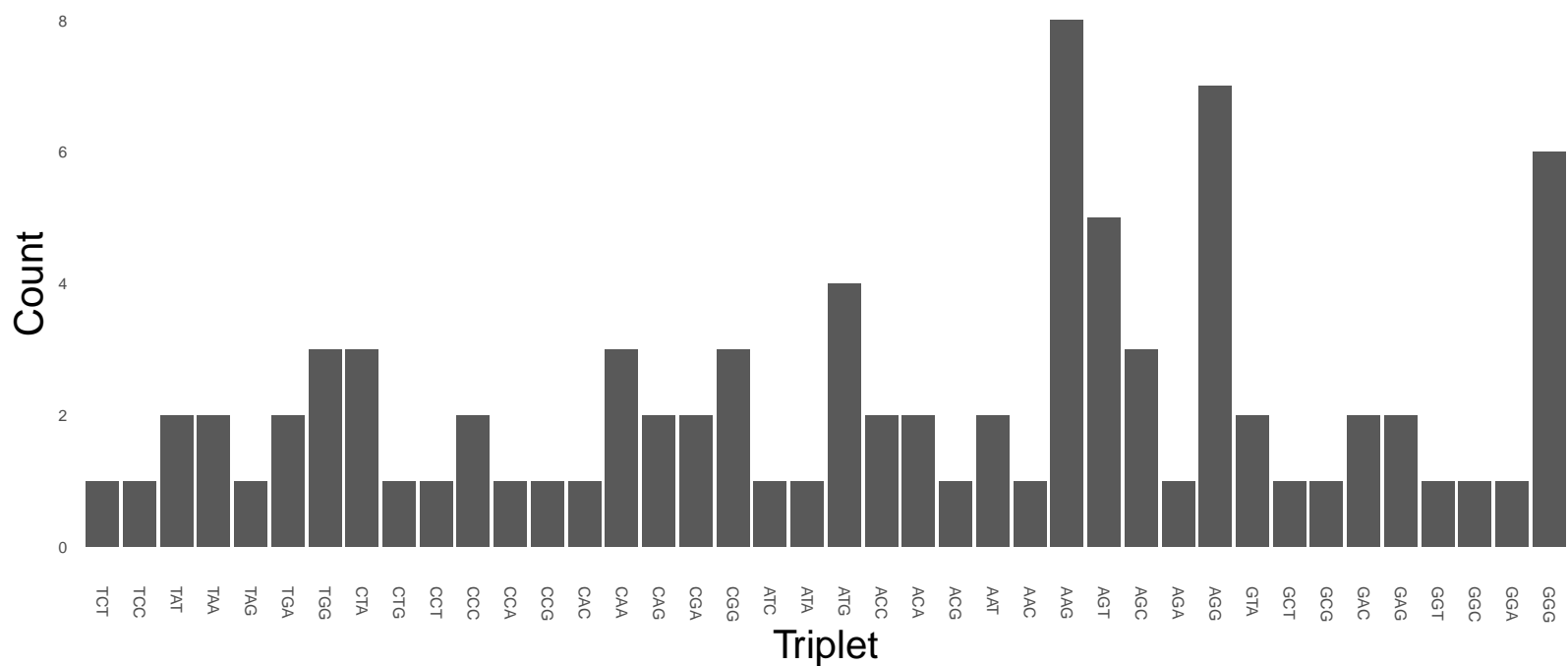
Gene TRBV7-7\*ap01\_C315T



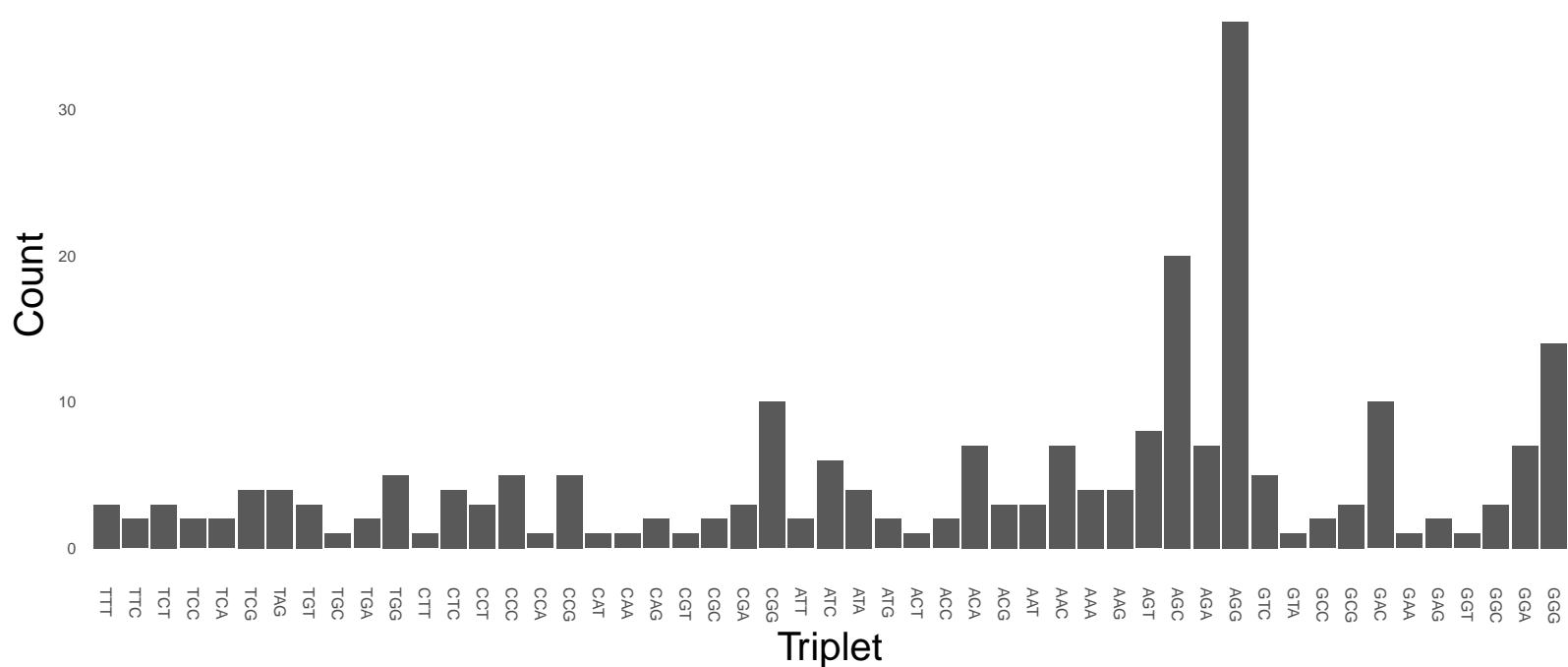
TRBV5-7\*ap01\_G290A\_G291A- Final 3 nucleotides as a triplet



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

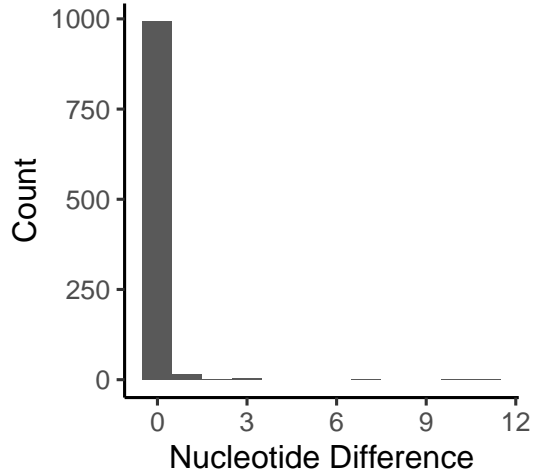


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



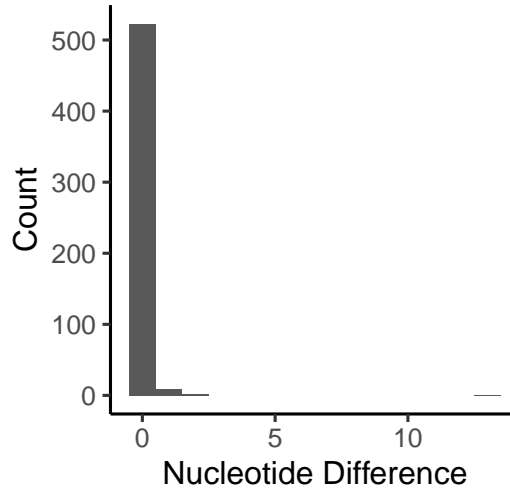
### TRBV10-1\*ap01

1017 sequences assigned  
993 (97.6%) exact matches, in which:  
962 unique CDR3  
13 unique J



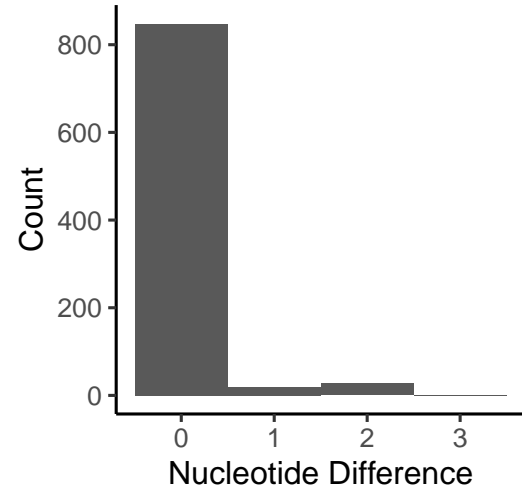
### TRBV10-2\*ap01

535 sequences assigned  
523 (97.8%) exact matches, in which:  
505 unique CDR3  
13 unique J



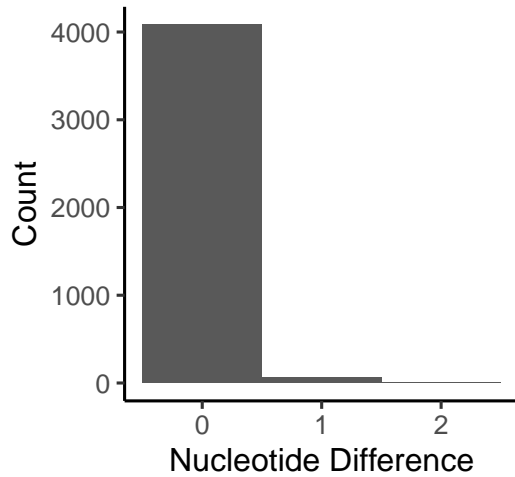
### TRBV13\*ap01

896 sequences assigned  
848 (94.6%) exact matches, in which:  
809 unique CDR3  
13 unique J



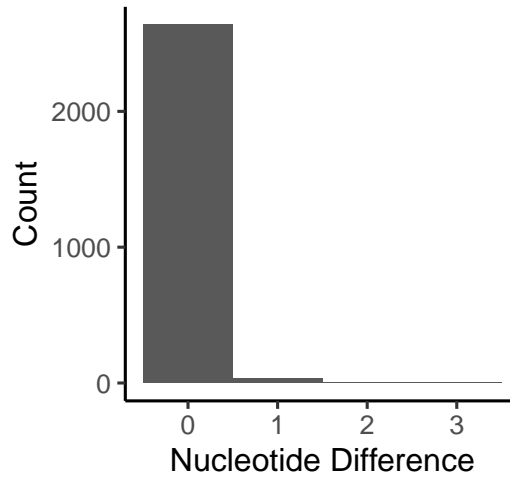
### TRBV20-1\*ap01

4143 sequences assigned  
4083 (98.6%) exact matches, in which:  
4046 unique CDR3  
13 unique J



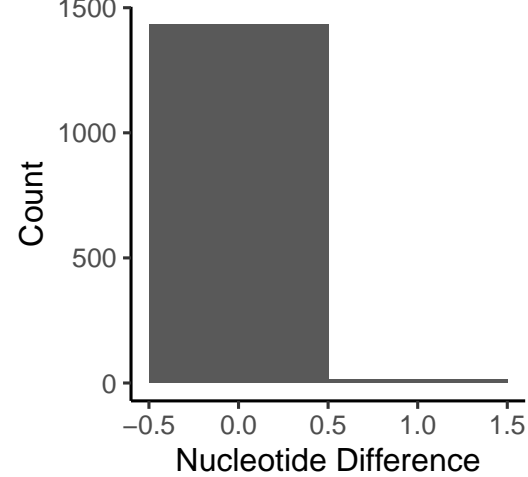
### TRBV10-3\*ap01

2671 sequences assigned  
2638 (98.8%) exact matches, in which:  
2587 unique CDR3  
13 unique J



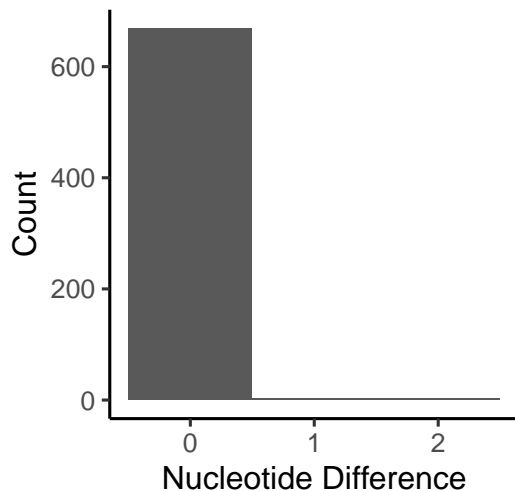
### TRBV14\*ap01

1448 sequences assigned  
1432 (98.9%) exact matches, in which:  
1418 unique CDR3  
13 unique J



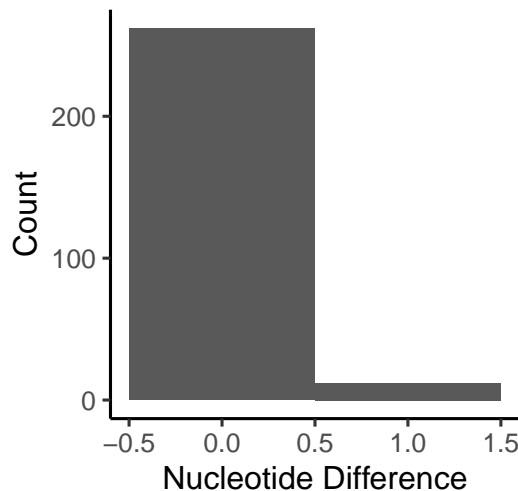
### TRBV20-1\*ap02

674 sequences assigned  
669 (99.3%) exact matches, in which:  
661 unique CDR3  
13 unique J



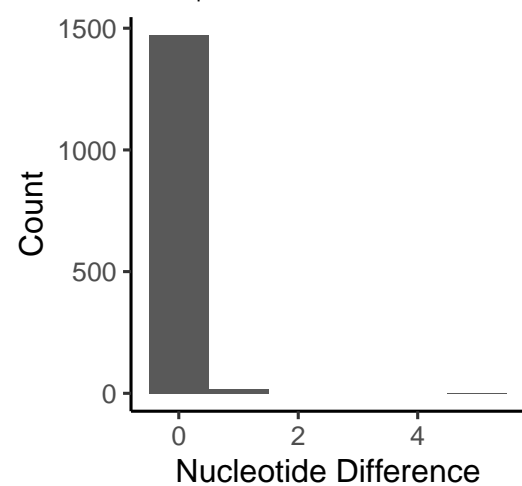
### TRBV1\*ap01

274 sequences assigned  
262 (95.6%) exact matches, in which:  
257 unique CDR3  
13 unique J



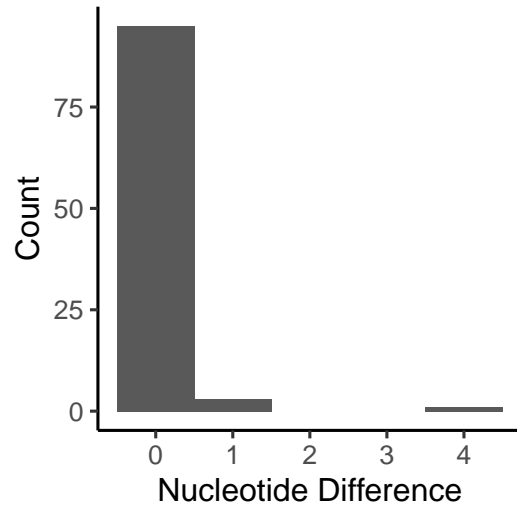
### TRBV15\*ap02

1491 sequences assigned  
1472 (98.7%) exact matches, in which:  
1401 unique CDR3  
13 unique J



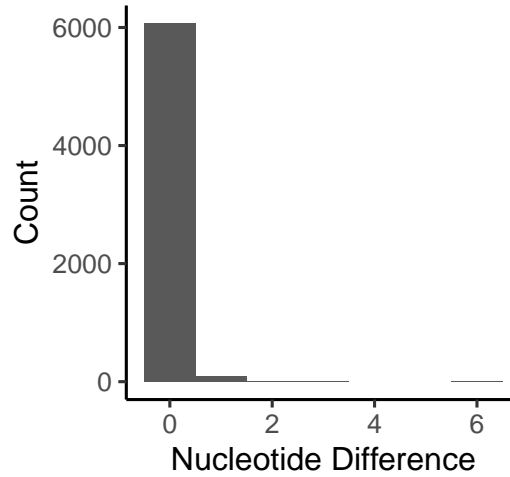
### TRBV16\*ap01

99 sequences assigned  
95 (96%) exact matches, in which:  
94 unique CDR3  
13 unique J



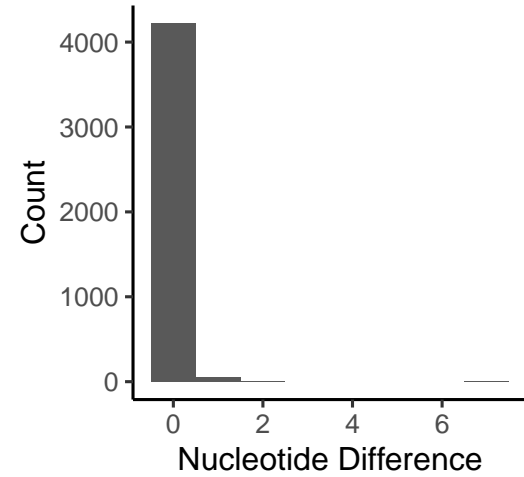
### TRBV19\*ap01

6175 sequences assigned  
6069 (98.3%) exact matches, in which:  
6030 unique CDR3  
13 unique J



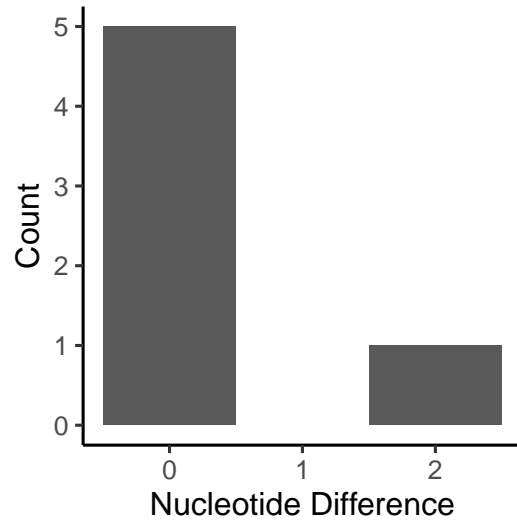
### TRBV28\*ap01

4285 sequences assigned  
4220 (98.5%) exact matches, in which:  
4166 unique CDR3  
13 unique J



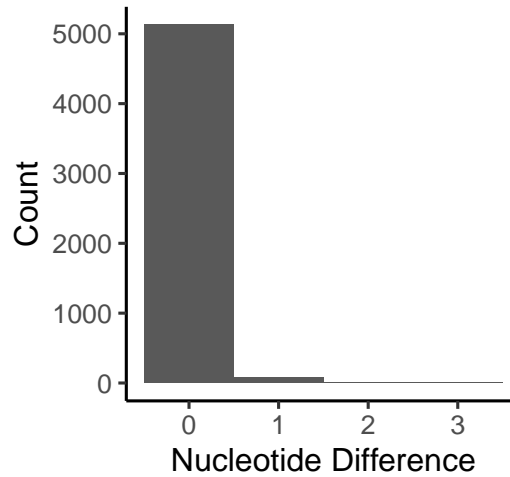
### TRBV17\*ap01

6 sequences assigned  
5 (83.3%) exact matches, in which:  
5 unique CDR3  
4 unique J



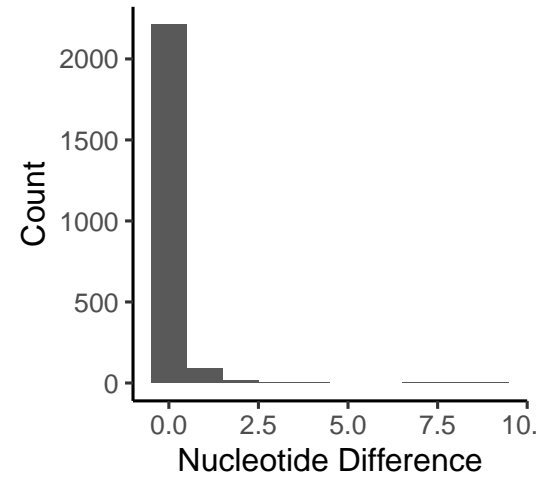
### TRBV2\*ap01

5223 sequences assigned  
5130 (98.2%) exact matches, in which:  
5054 unique CDR3  
13 unique J



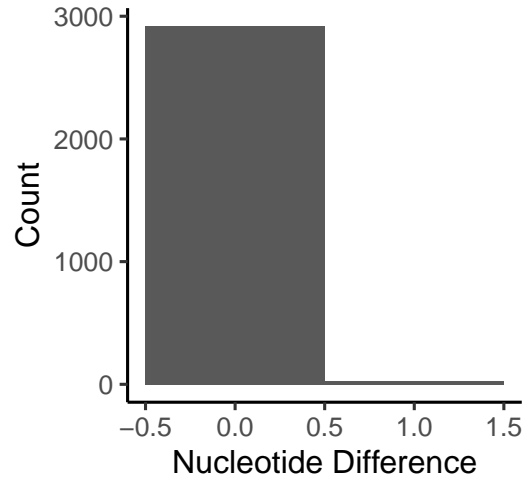
### TRBV30\*ap01

2322 sequences assigned  
2211 (95.2%) exact matches, in which:  
2177 unique CDR3  
13 unique J



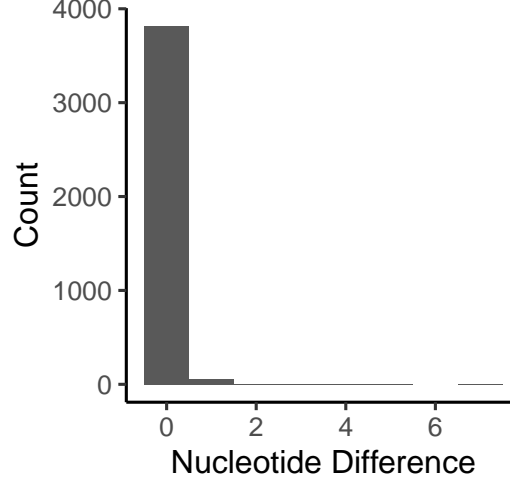
### TRBV18\*ap01

2946 sequences assigned  
2920 (99.1%) exact matches, in which:  
2888 unique CDR3  
13 unique J



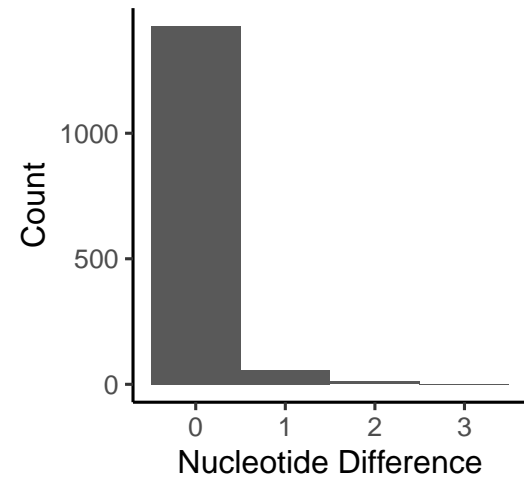
### TRBV27\*ap01

3881 sequences assigned  
3816 (98.3%) exact matches, in which:  
3749 unique CDR3  
13 unique J



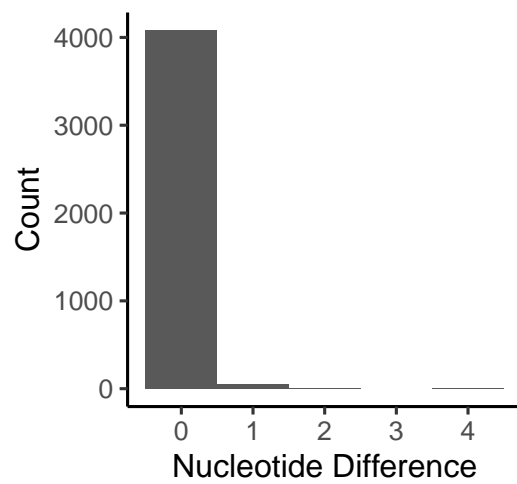
### TRBV30\*ap02

1495 sequences assigned  
1427 (95.5%) exact matches, in which:  
1412 unique CDR3  
13 unique J



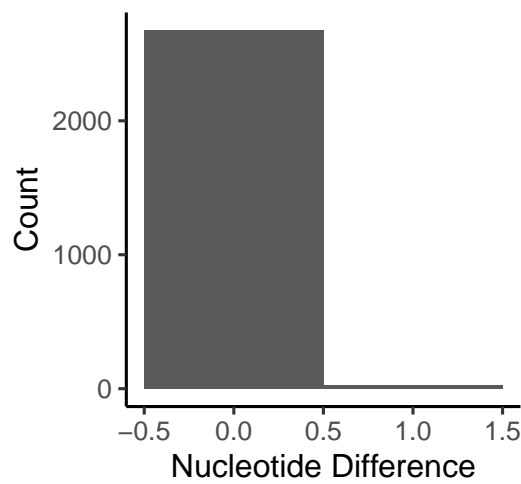
### TRBV9\*ap01

4132 sequences assigned  
4080 (98.7%) exact matches, in which:  
3931 unique CDR3  
13 unique J



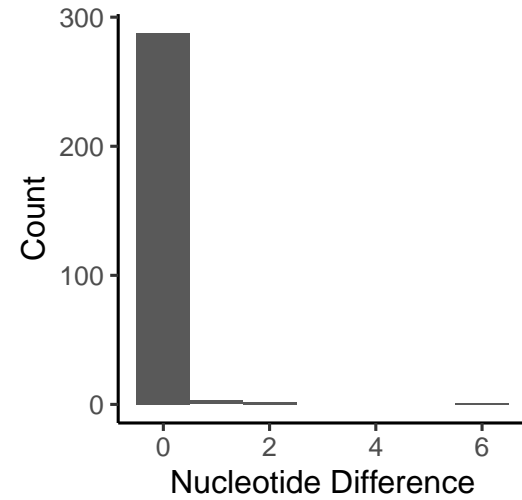
### TRBV11-2\*ap01

2704 sequences assigned  
2675 (98.9%) exact matches, in which:  
2658 unique CDR3  
13 unique J



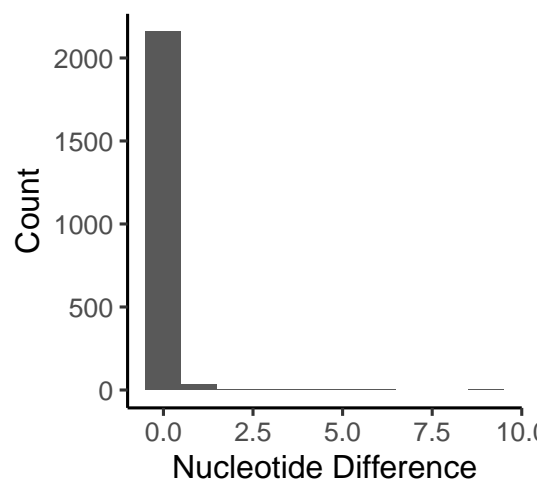
### TRBV12-2\*ap01

294 sequences assigned  
288 (98%) exact matches, in which:  
284 unique CDR3  
13 unique J



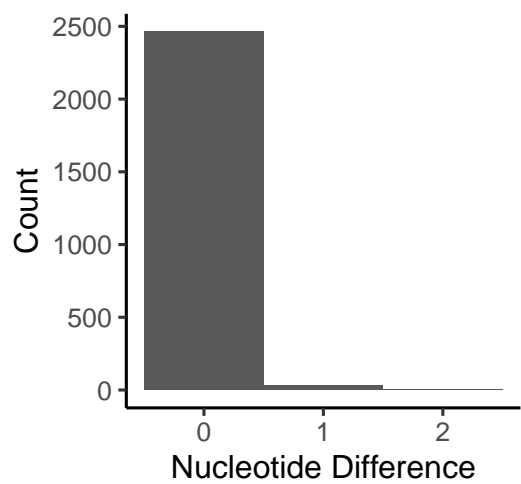
### TRBV21-1\*ap01

2202 sequences assigned  
2158 (98%) exact matches, in which:  
2129 unique CDR3  
13 unique J



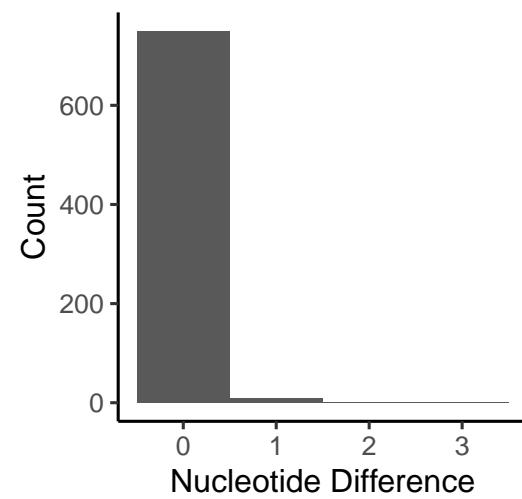
### TRBV11-3\*ap01

2495 sequences assigned  
2463 (98.7%) exact matches, in which:  
2442 unique CDR3  
13 unique J



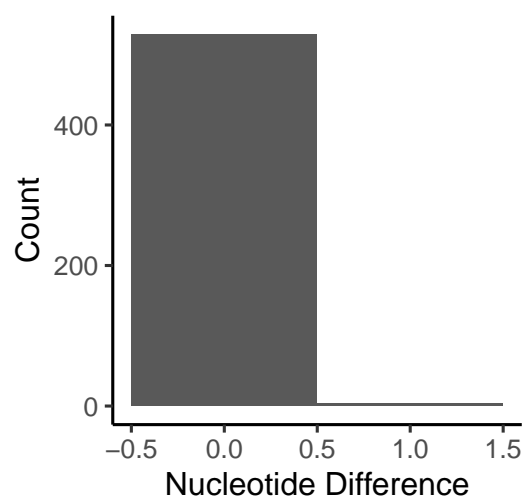
### TRBV12-5\*ap01

761 sequences assigned  
750 (98.6%) exact matches, in which:  
717 unique CDR3  
13 unique J



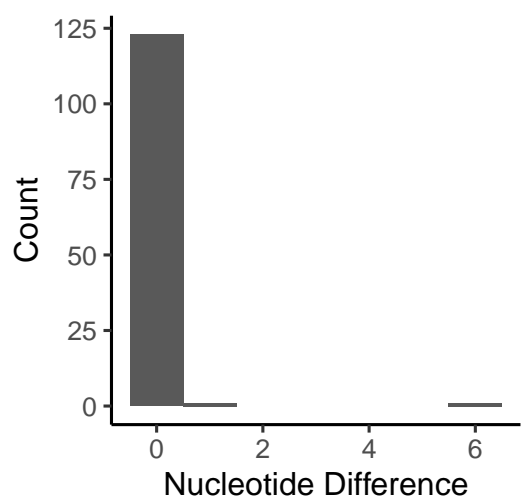
### TRBV11-1\*ap01

533 sequences assigned  
529 (99.2%) exact matches, in which:  
525 unique CDR3  
13 unique J



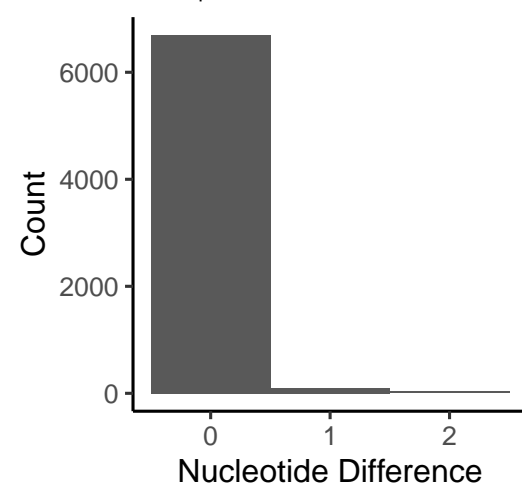
### TRBV12-1\*ap01

125 sequences assigned  
123 (98.4%) exact matches, in which:  
122 unique CDR3  
12 unique J



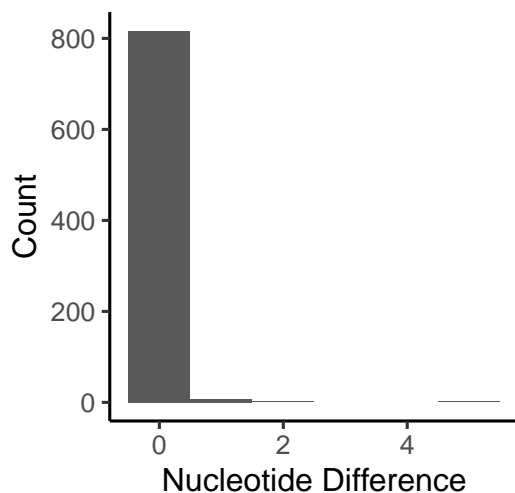
### TRBV12-34\*ap01

6825 sequences assigned  
6696 (98.1%) exact matches, in which:  
6592 unique CDR3  
13 unique J



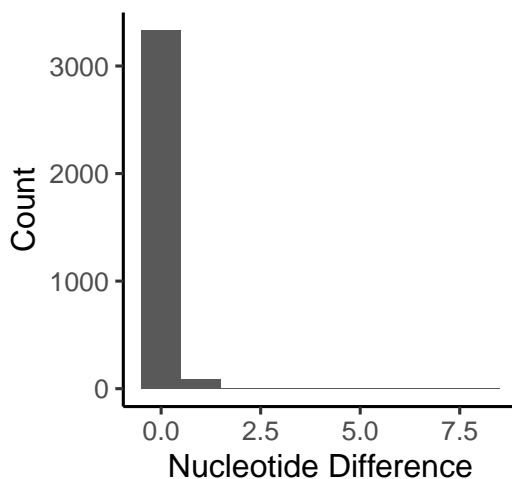
### TRBV23-1\*ap01

829 sequences assigned  
817 (98.6%) exact matches, in which:  
805 unique CDR3  
13 unique J



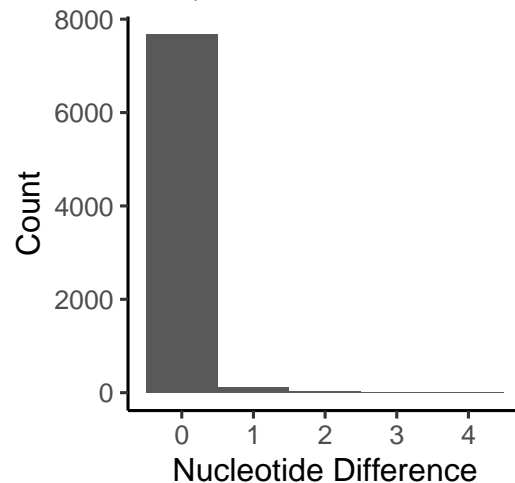
### TRBV4-1\*ap01

3439 sequences assigned  
3331 (96.9%) exact matches, in which:  
3276 unique CDR3  
13 unique J



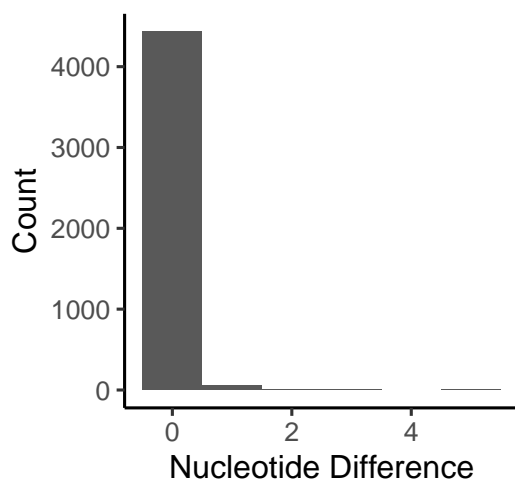
### TRBV5-1\*ap01

7820 sequences assigned  
7674 (98.1%) exact matches, in which:  
7060 unique CDR3  
13 unique J



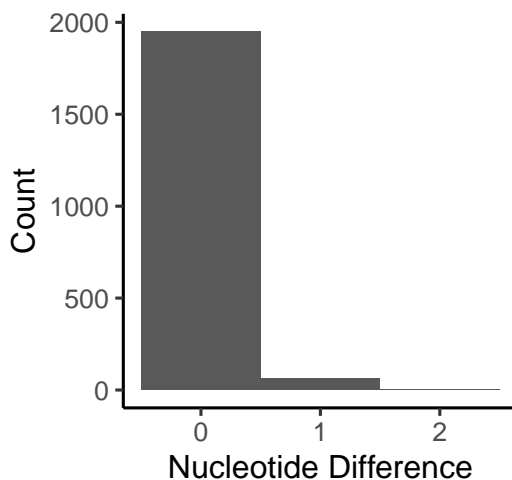
### TRBV3-12\*ap01

4493 sequences assigned  
4432 (98.6%) exact matches, in which:  
4384 unique CDR3  
13 unique J



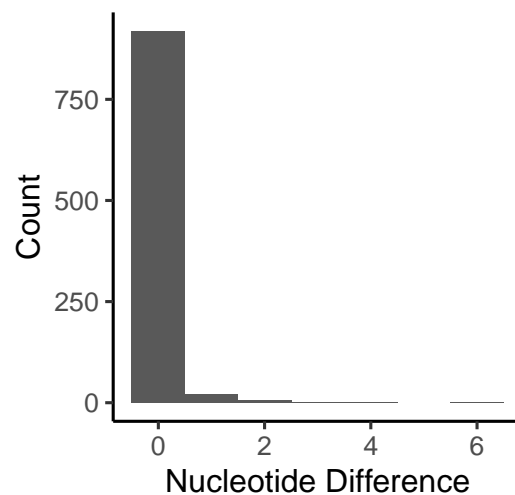
### TRBV4-2\*ap01

2018 sequences assigned  
1949 (96.6%) exact matches, in which:  
1925 unique CDR3  
13 unique J



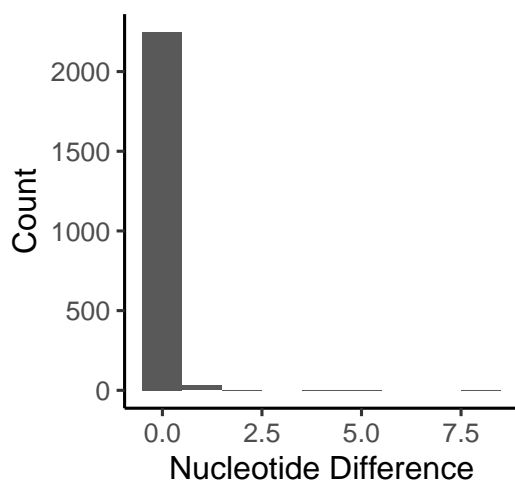
### TRBV25-1\*ap01

949 sequences assigned  
919 (96.8%) exact matches, in which:  
903 unique CDR3  
13 unique J



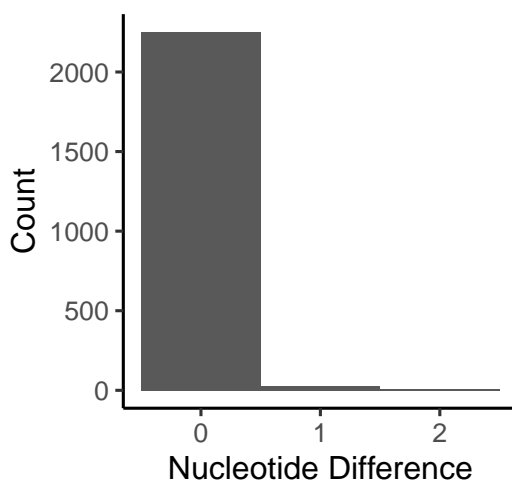
### TRBV24-1\*ap01

2282 sequences assigned  
2248 (98.5%) exact matches, in which:  
2221 unique CDR3  
13 unique J



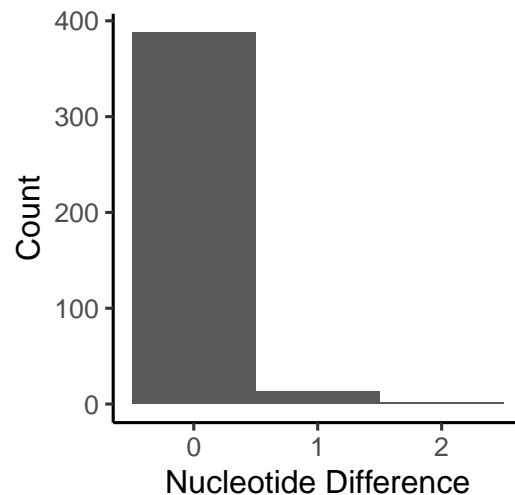
### TRBV4-3\*ap01

2288 sequences assigned  
2251 (98.4%) exact matches, in which:  
2207 unique CDR3  
13 unique J



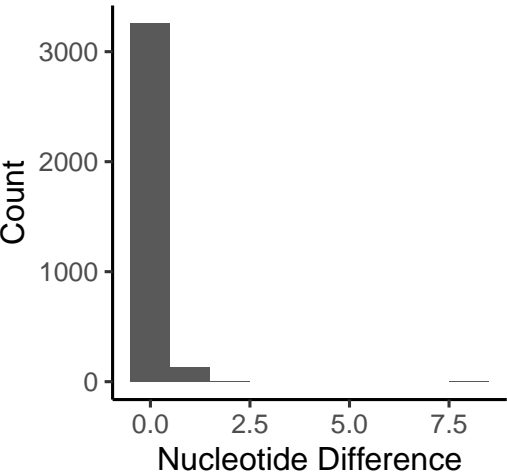
### TRBV5-3\*ap01

403 sequences assigned  
388 (96.3%) exact matches, in which:  
367 unique CDR3  
13 unique J



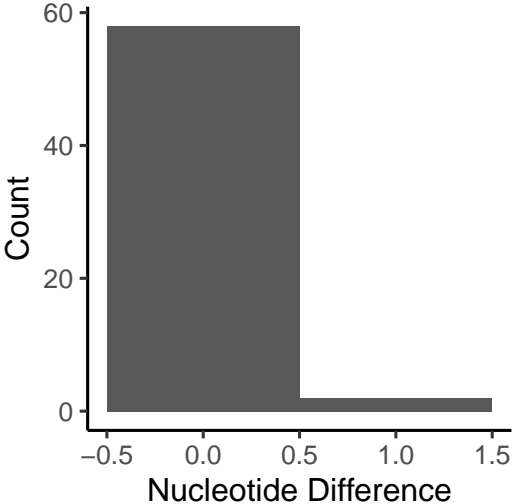
TRBV5-4\*ap01

3390 sequences assigned  
3257 (96.1%) exact matches, in which:  
3222 unique CDR3  
13 unique J



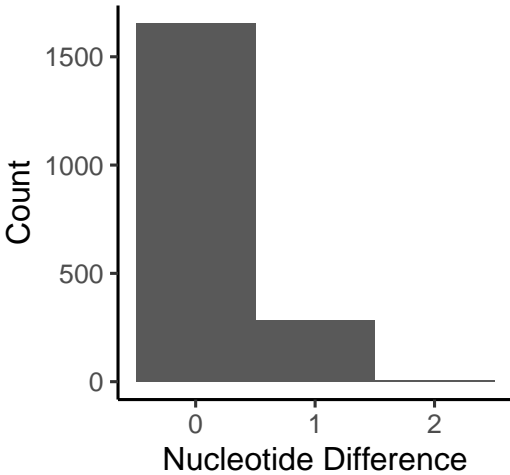
TRBV5-7\*ap01

60 sequences assigned  
58 (96.7%) exact matches, in which:  
57 unique CDR3  
12 unique J



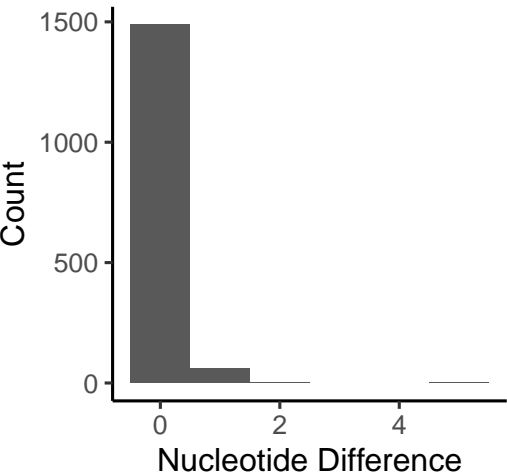
TRBV6-1\*ap01

1947 sequences assigned  
1654 (85%) exact matches, in which:  
1629 unique CDR3  
13 unique J



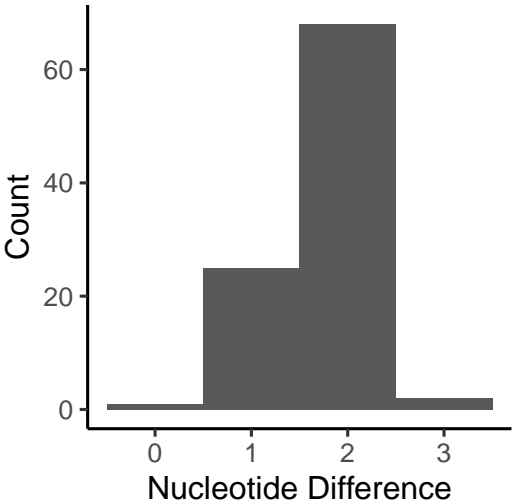
TRBV5-5\*ap01

1553 sequences assigned  
1488 (95.8%) exact matches, in which:  
1405 unique CDR3  
13 unique J



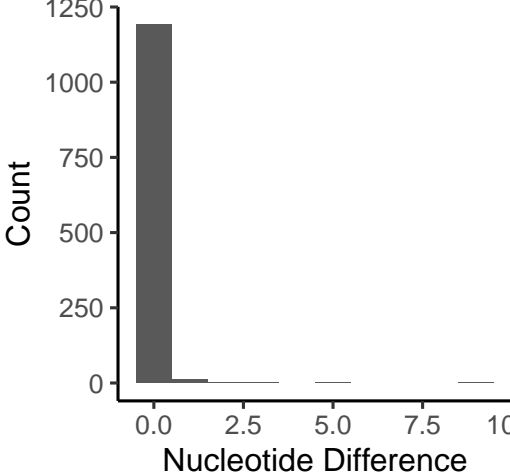
TRBV5-7\*ap01\_G290A\_G

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



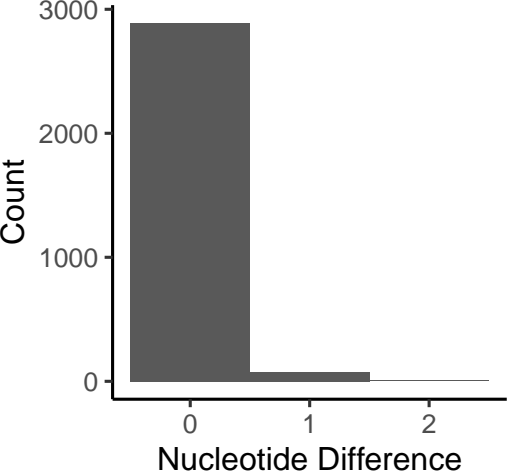
TRBV6-4\*ap01

1210 sequences assigned  
1191 (98.4%) exact matches, in which:  
1166 unique CDR3  
13 unique J



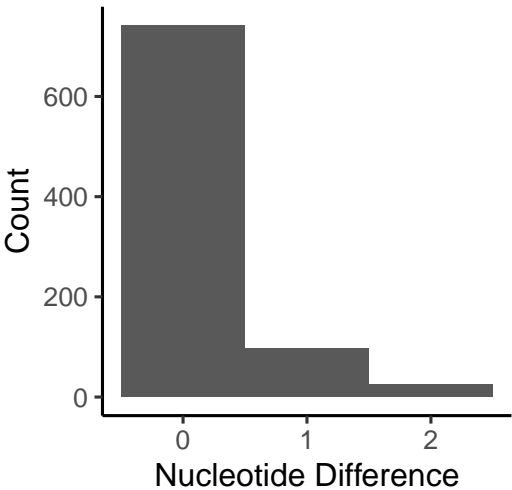
TRBV5-6\*ap01

2972 sequences assigned  
2889 (97.2%) exact matches, in which:  
2632 unique CDR3  
13 unique J



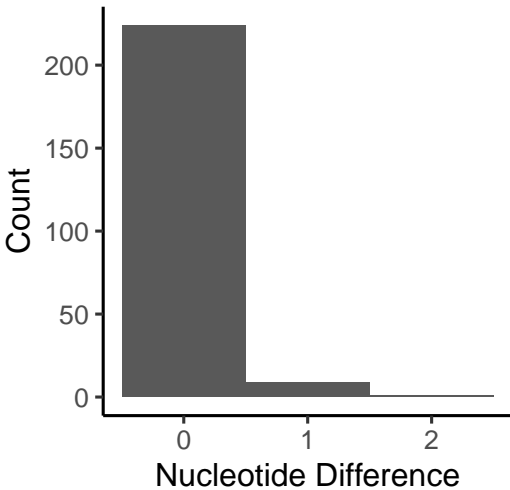
TRBV5-8\*ap01

864 sequences assigned  
742 (85.9%) exact matches, in which:  
733 unique CDR3  
13 unique J



TRBV6-7\*ap01

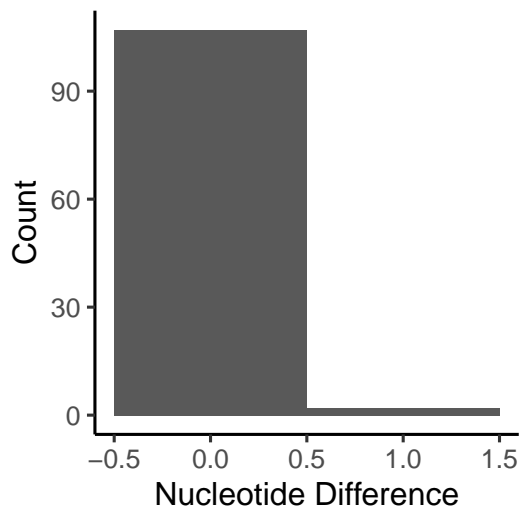
234 sequences assigned  
224 (95.7%) exact matches, in which:  
220 unique CDR3  
13 unique J





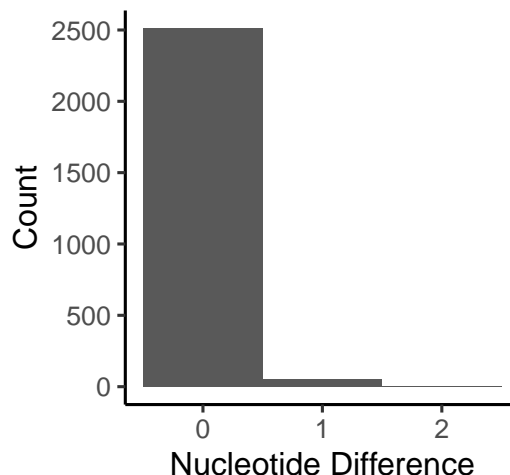
### TRBV6-8\*ap01

109 sequences assigned  
107 (98.2%) exact matches, in which:  
105 unique CDR3  
12 unique J



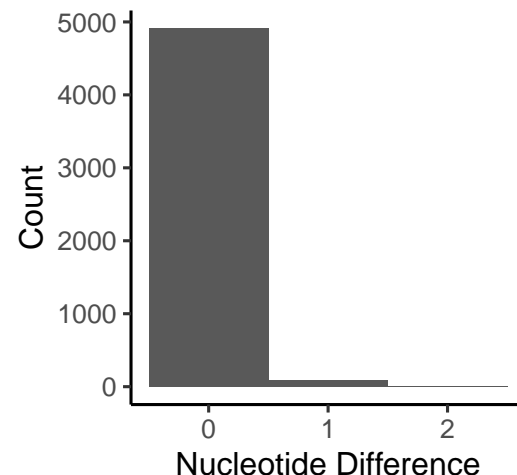
### TRBV6-56\*ap01

2570 sequences assigned  
2511 (97.7%) exact matches, in which:  
2441 unique CDR3  
13 unique J



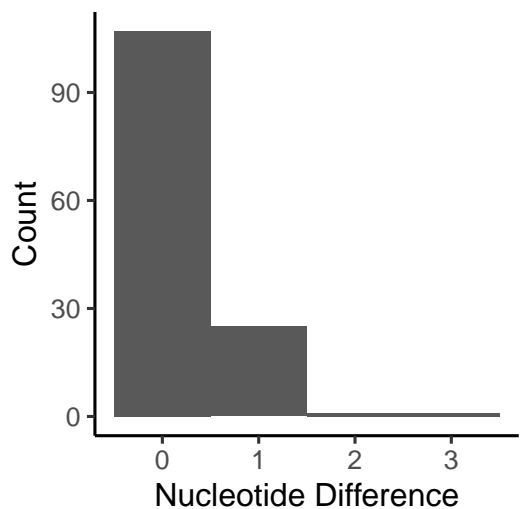
### TRBV7-2\*ap01

4999 sequences assigned  
4911 (98.2%) exact matches, in which:  
4867 unique CDR3  
13 unique J



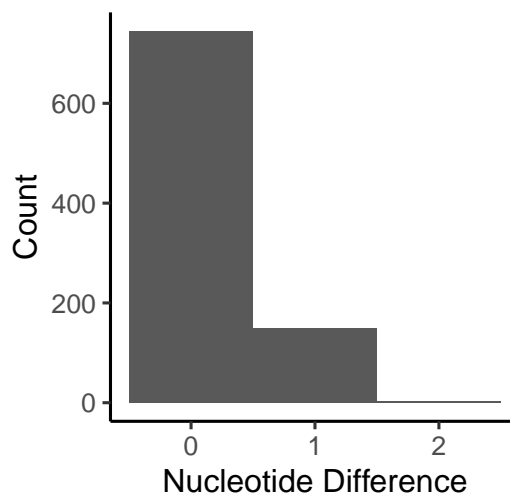
### TRBV6-9\*ap01

134 sequences assigned  
107 (79.9%) exact matches, in which:  
105 unique CDR3  
13 unique J



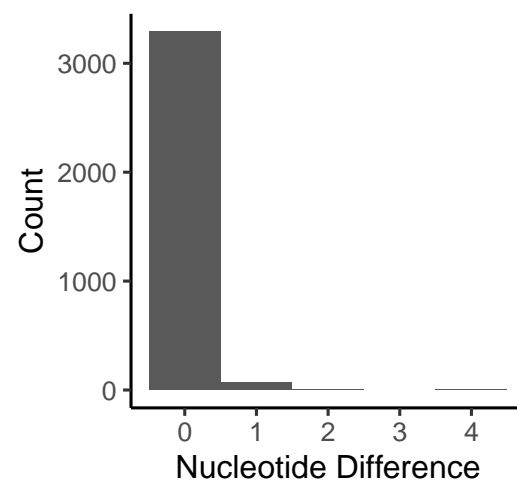
### TRBV6-56\*ap02

899 sequences assigned  
745 (82.9%) exact matches, in which:  
731 unique CDR3  
13 unique J



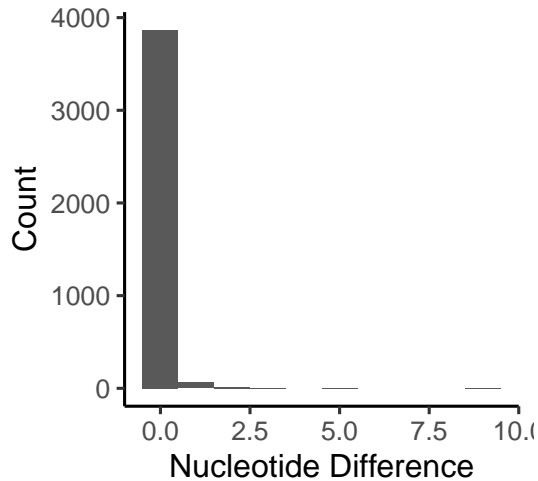
### TRBV7-3\*ap01

3361 sequences assigned  
3290 (97.9%) exact matches, in which:  
3126 unique CDR3  
13 unique J



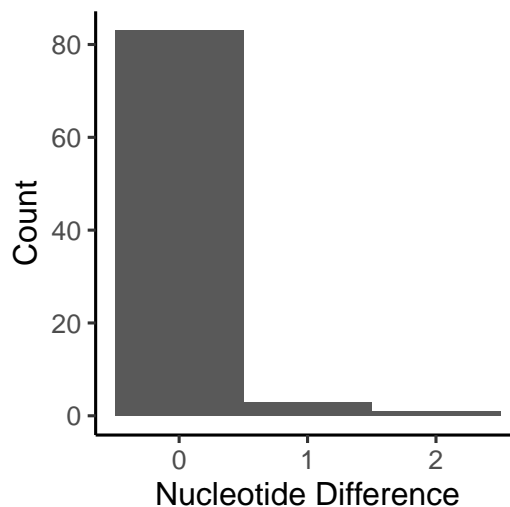
### TRBV6-23\*ap01

3946 sequences assigned  
3866 (98%) exact matches, in which:  
3813 unique CDR3  
13 unique J



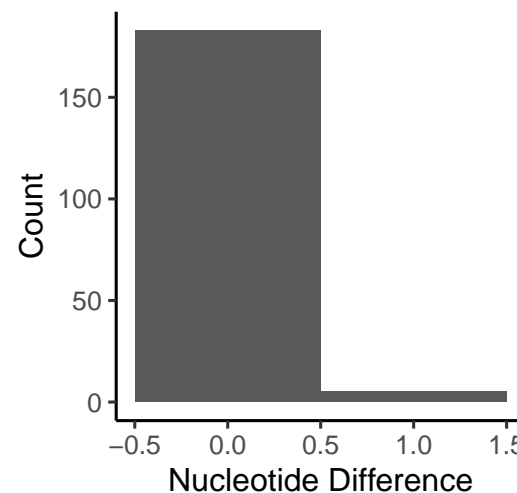
### TRBV7-1\*ap01\_G291C\_T

87 sequences assigned  
83 (95.4%) exact matches, in which:  
79 unique CDR3  
12 unique J



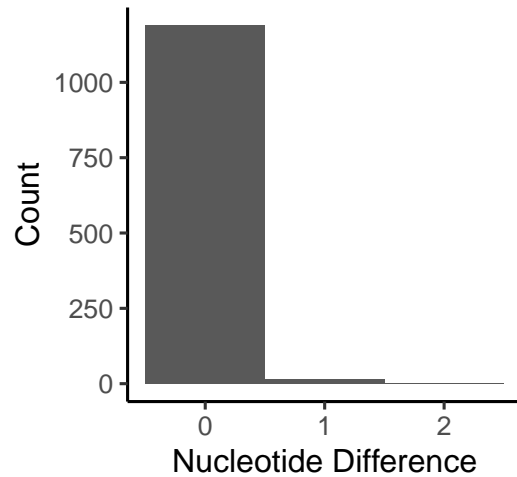
### TRBV7-4\*ap01

188 sequences assigned  
183 (97.3%) exact matches, in which:  
174 unique CDR3  
13 unique J



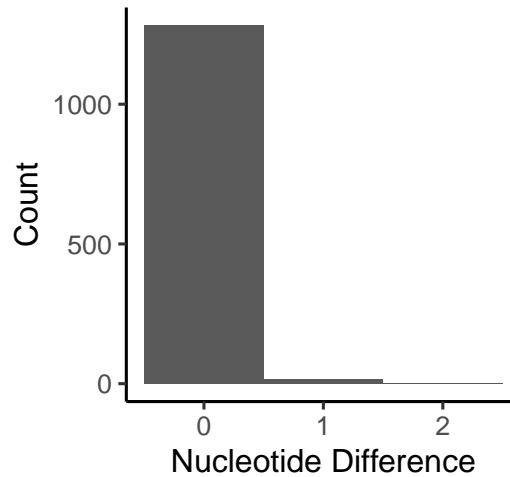
### TRBV7-6\*ap01

1205 sequences assigned  
1189 (98.7%) exact matches, in which:  
1170 unique CDR3  
13 unique J



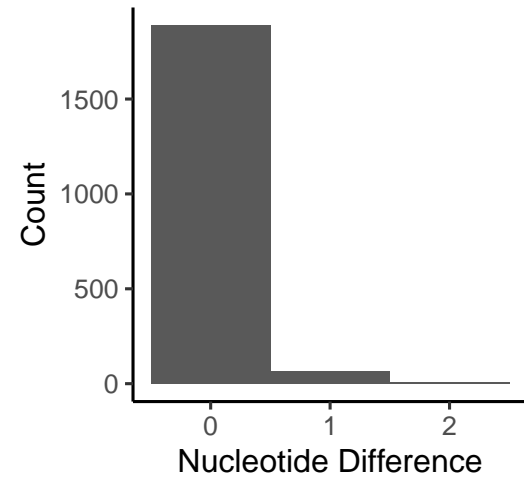
### TRBV7-8\*ap01

1301 sequences assigned  
1282 (98.5%) exact matches, in which:  
1267 unique CDR3  
13 unique J



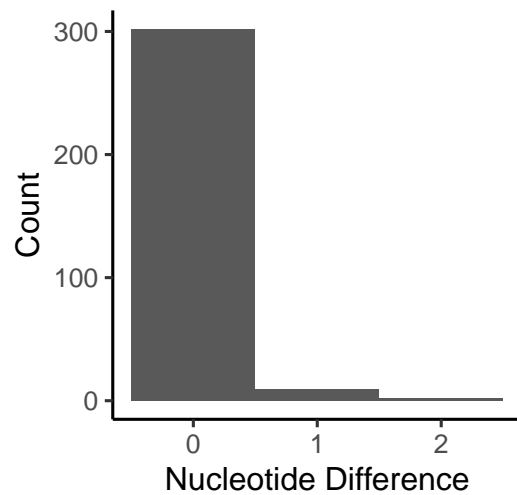
### TRBV29-1\*ap01

1959 sequences assigned  
1888 (96.4%) exact matches, in which:  
1851 unique CDR3  
13 unique J



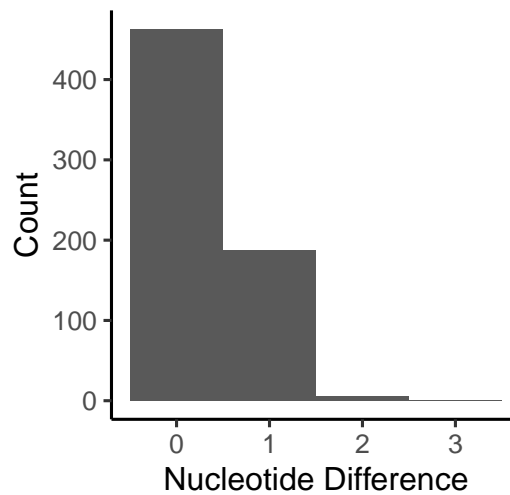
### TRBV7-7\*ap01

313 sequences assigned  
302 (96.5%) exact matches, in which:  
300 unique CDR3  
13 unique J



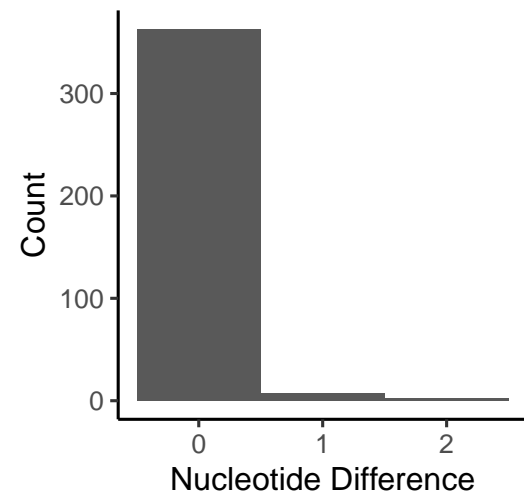
### TRBV7-8\*ap03

658 sequences assigned  
463 (70.4%) exact matches, in which:  
461 unique CDR3  
13 unique J



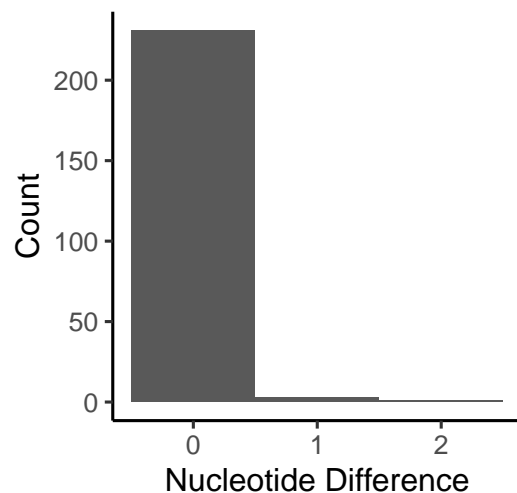
### TRBV29-1\*ap02

372 sequences assigned  
363 (97.6%) exact matches, in which:  
355 unique CDR3  
13 unique J



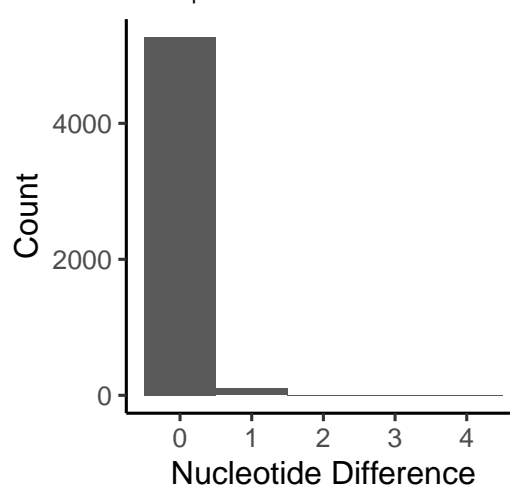
### TRBV7-7\*ap01\_C315T

235 sequences assigned  
231 (98.3%) exact matches, in which:  
229 unique CDR3  
13 unique J

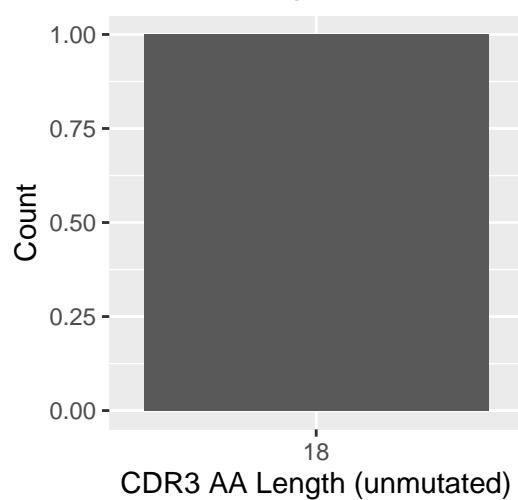


### TRBV7-9\*ap01

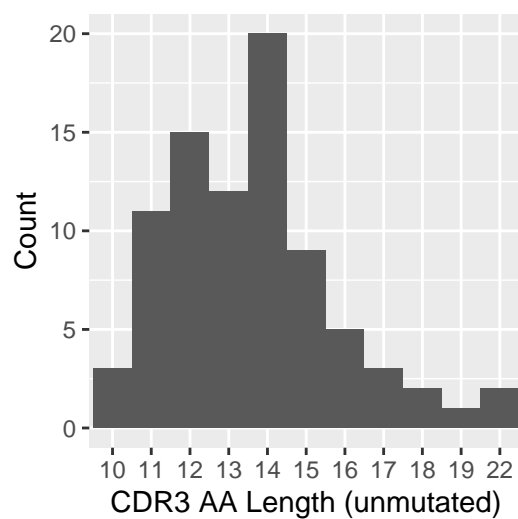
5374 sequences assigned  
5269 (98%) exact matches, in which:  
5211 unique CDR3  
13 unique J



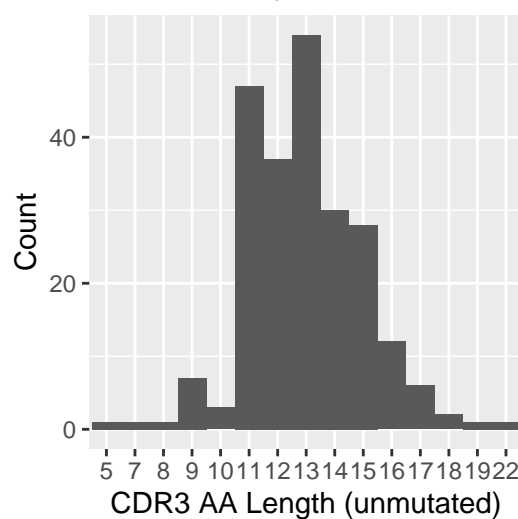
TRBV5-7\*ap01\_G290A\_G291A



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]