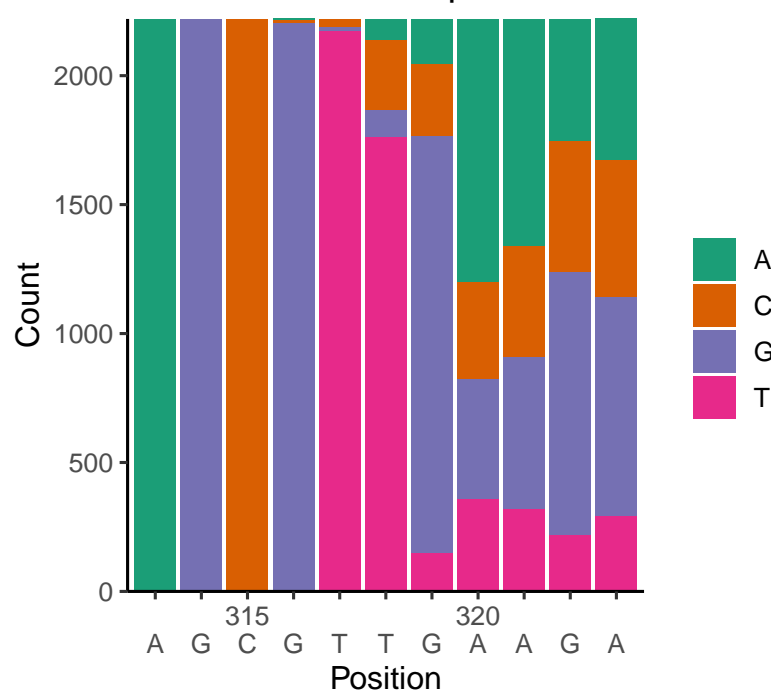
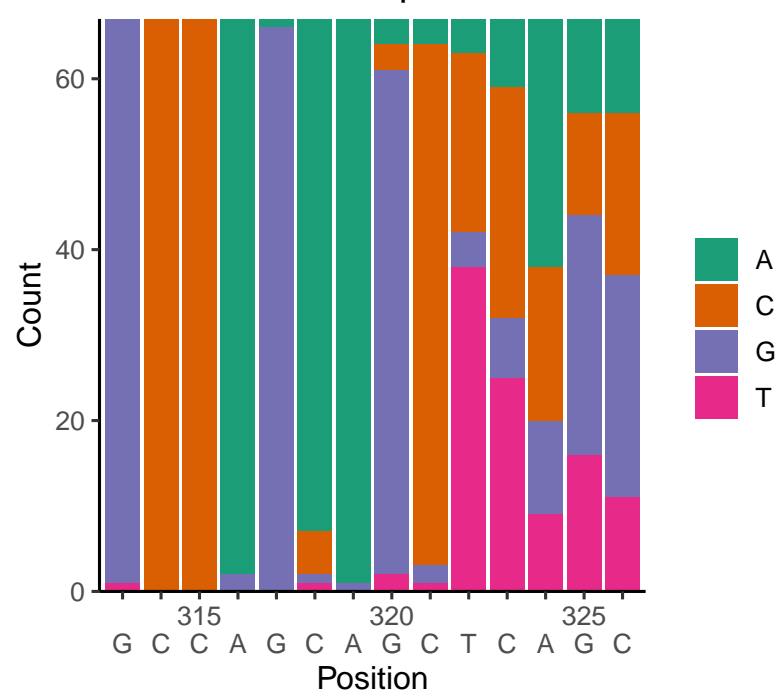


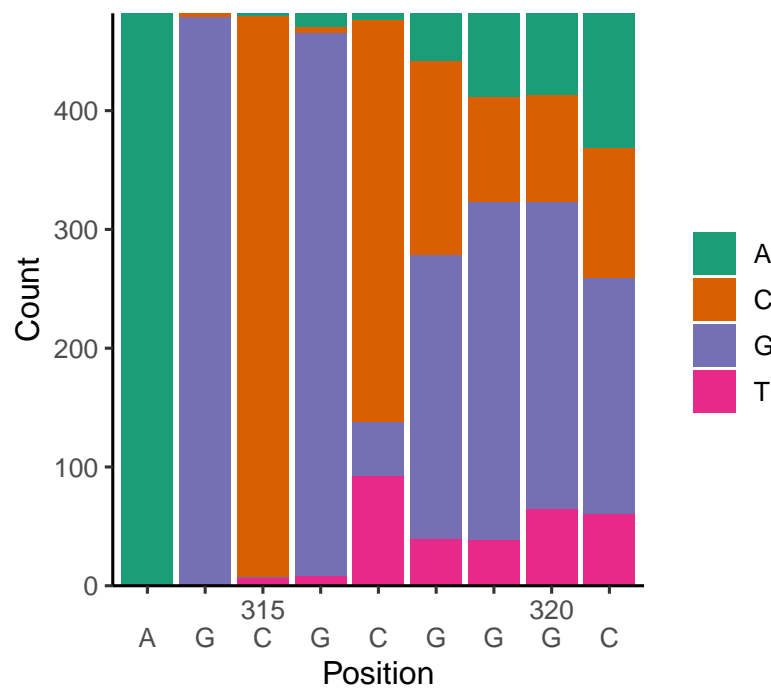
Gene TRBV29-1*ap01_C309G



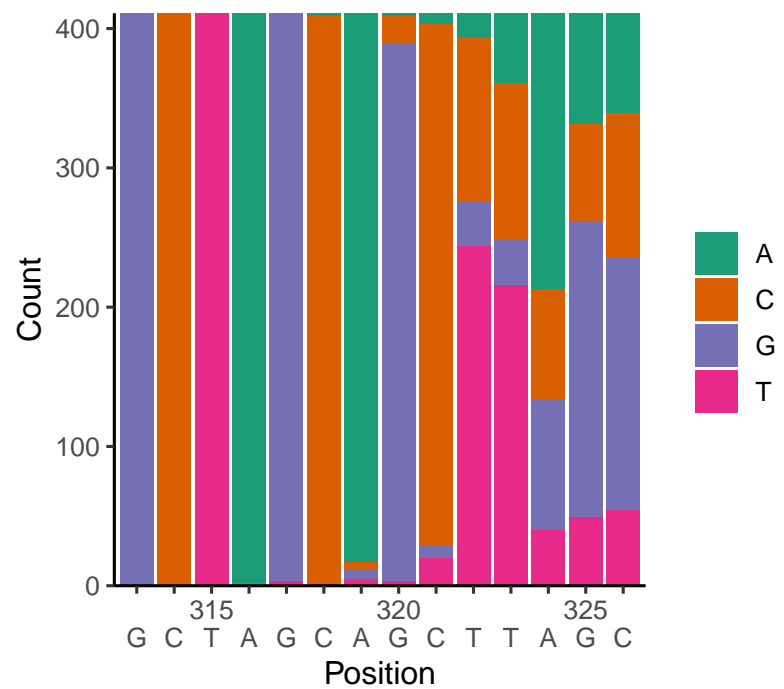
Gene TRBV7-1*ap01_G291C_T296C



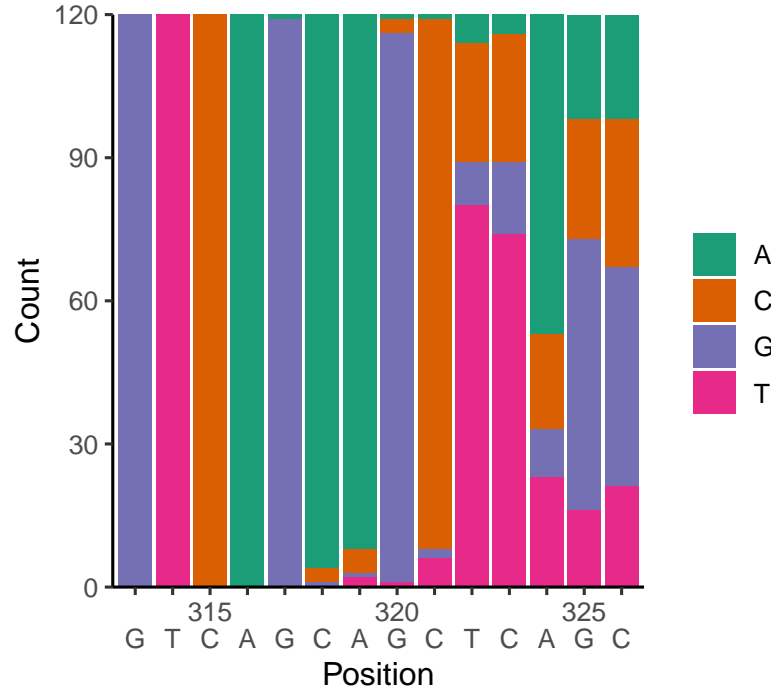
Gene TRBV29-1*ap02_C309G



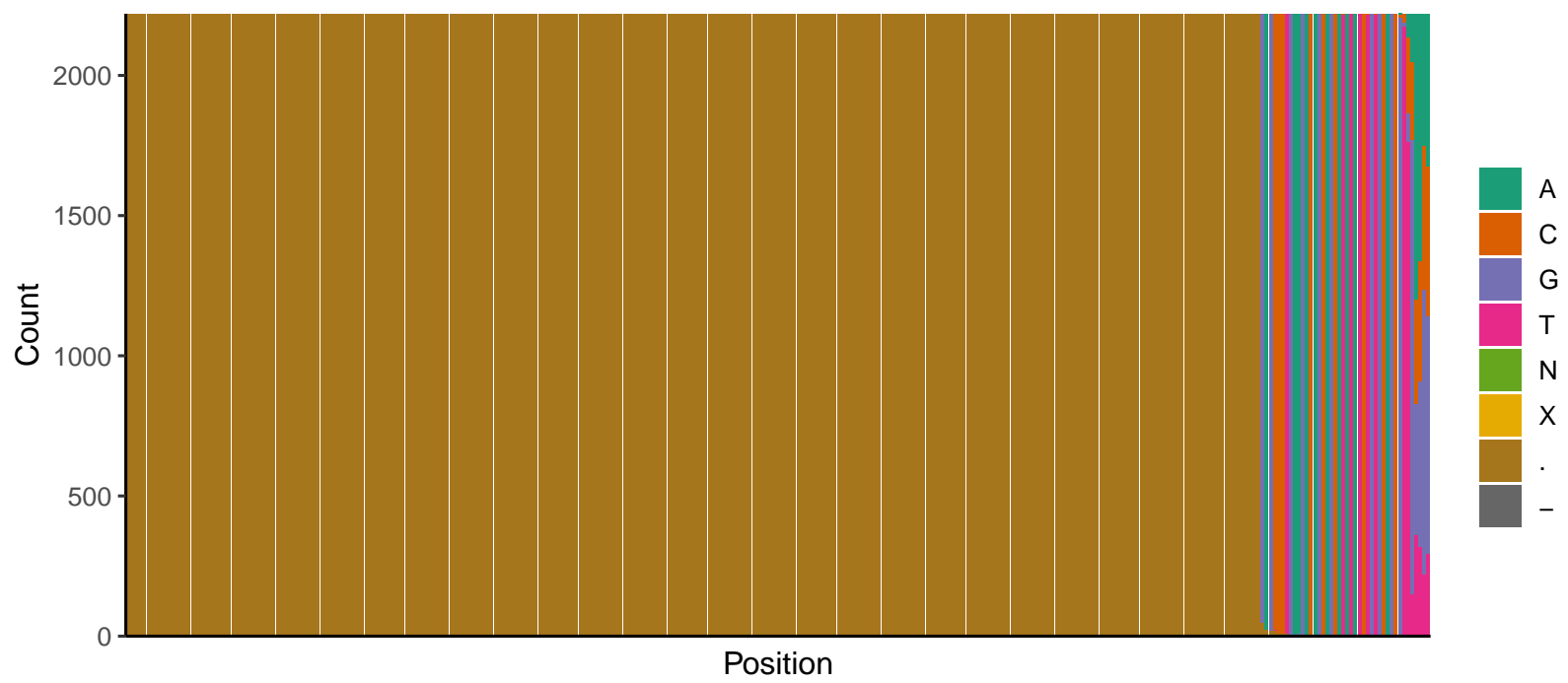
Gene TRBV7-7*ap01_C315T



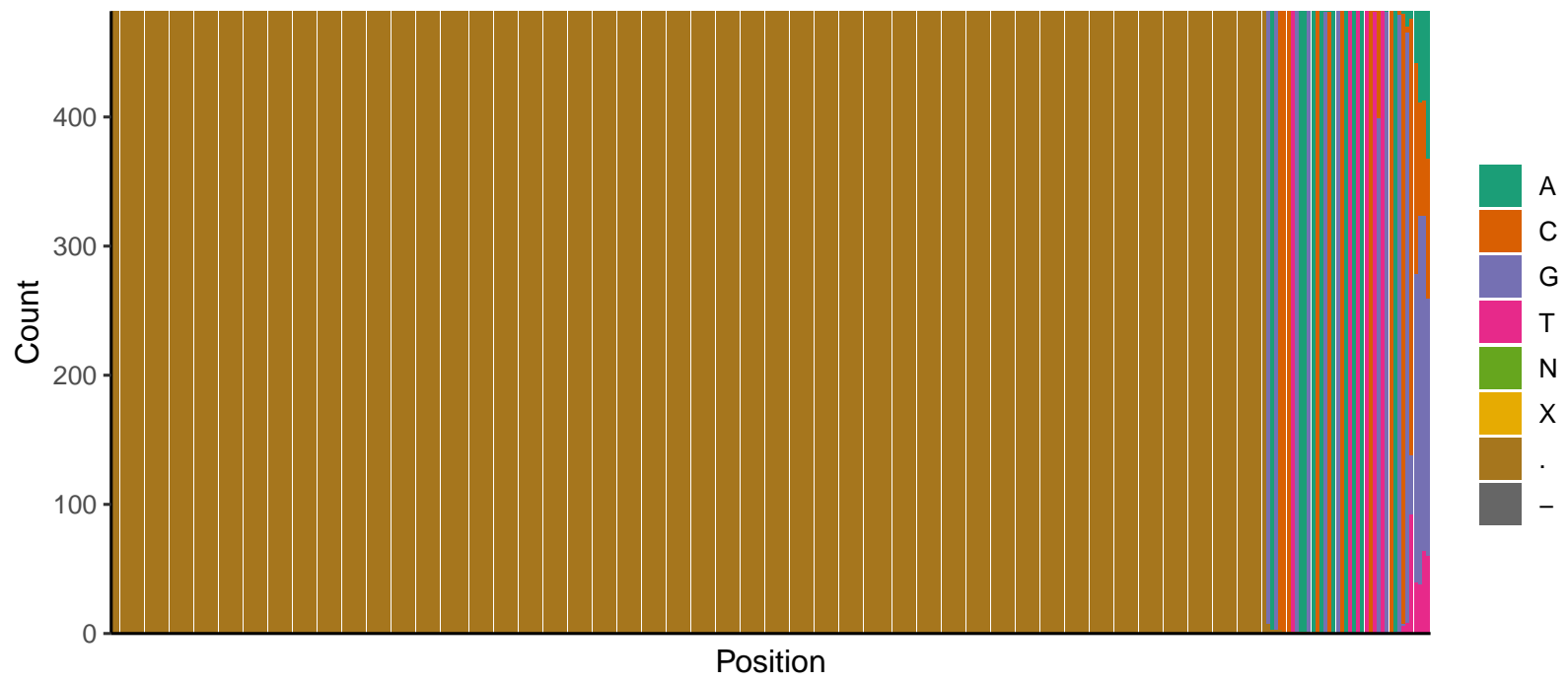
Gene TRBV7-1*ap01_G291C_T296C_C314T



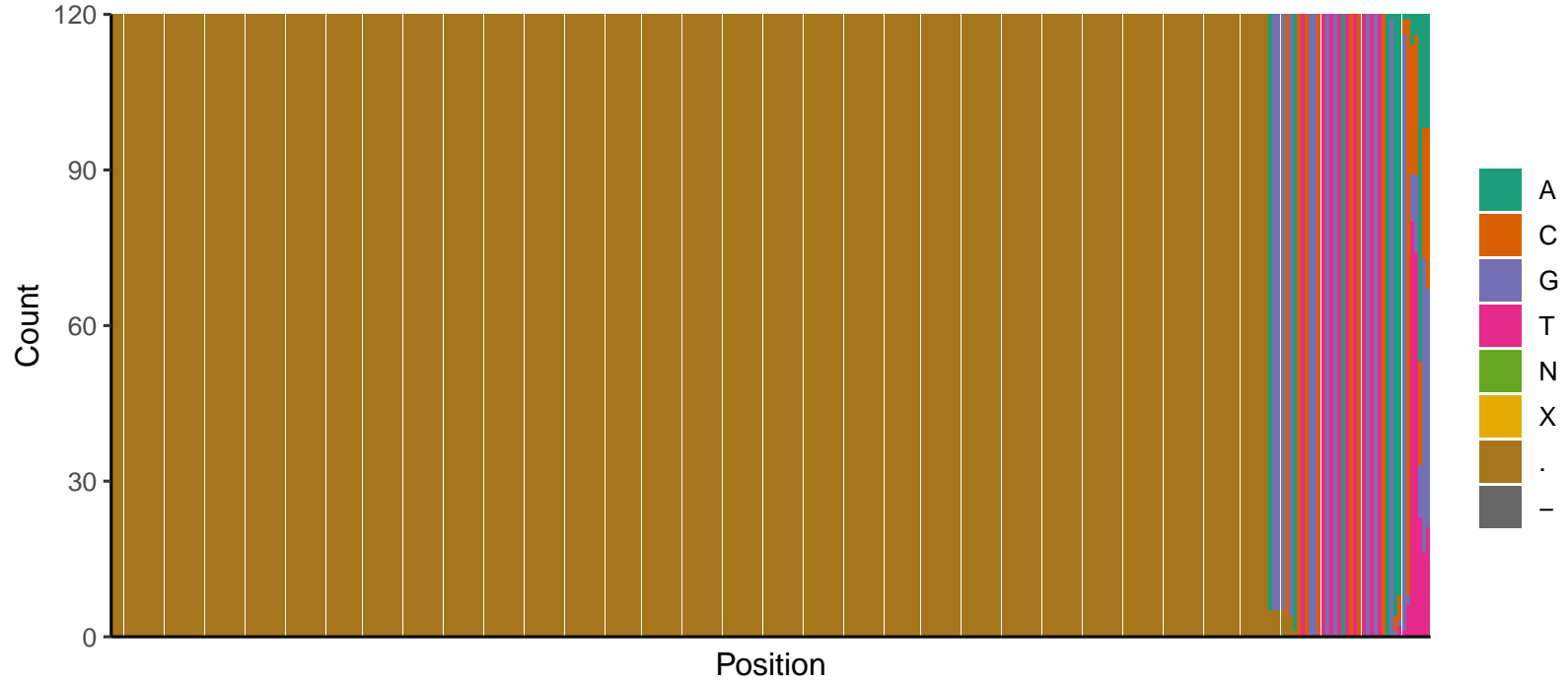
Gene TRBV29-1*ap01_C309G



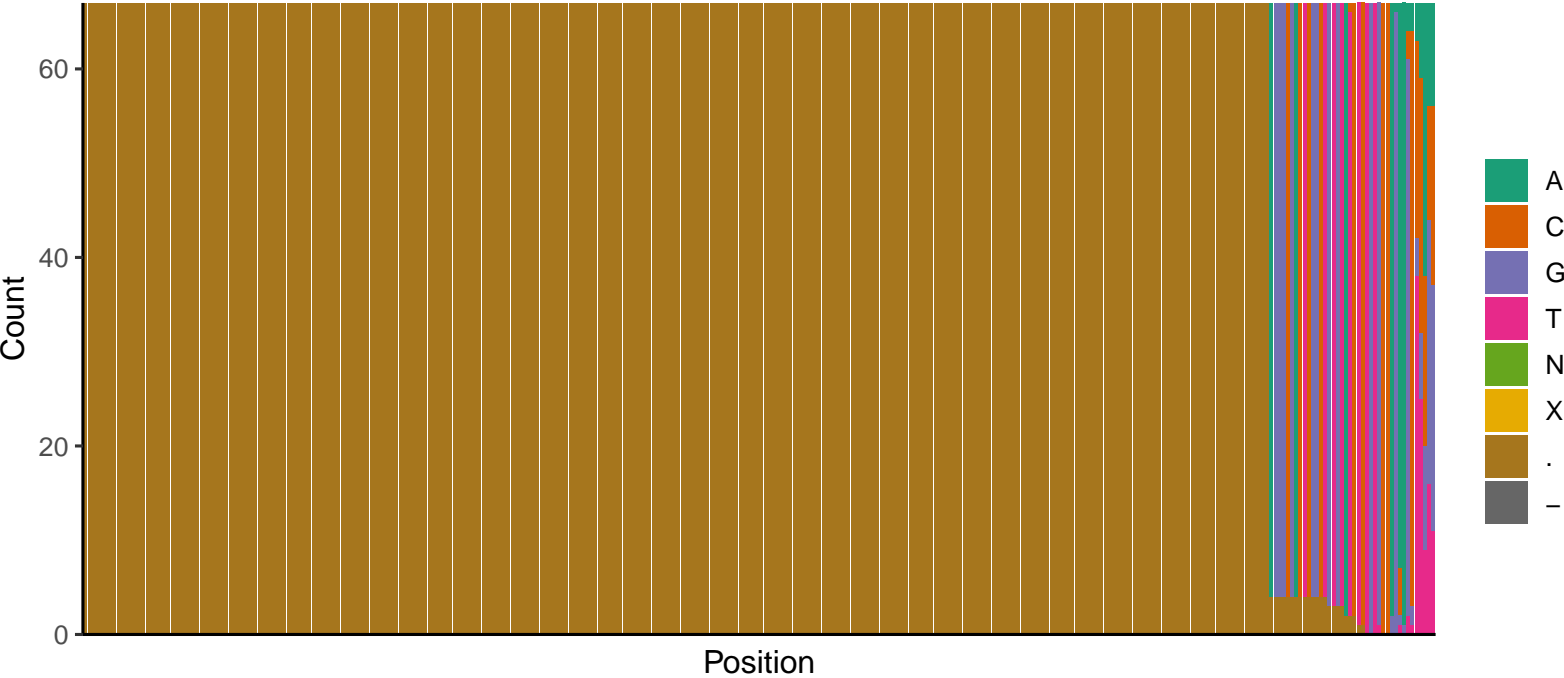
Gene TRBV29-1*ap02_C309G



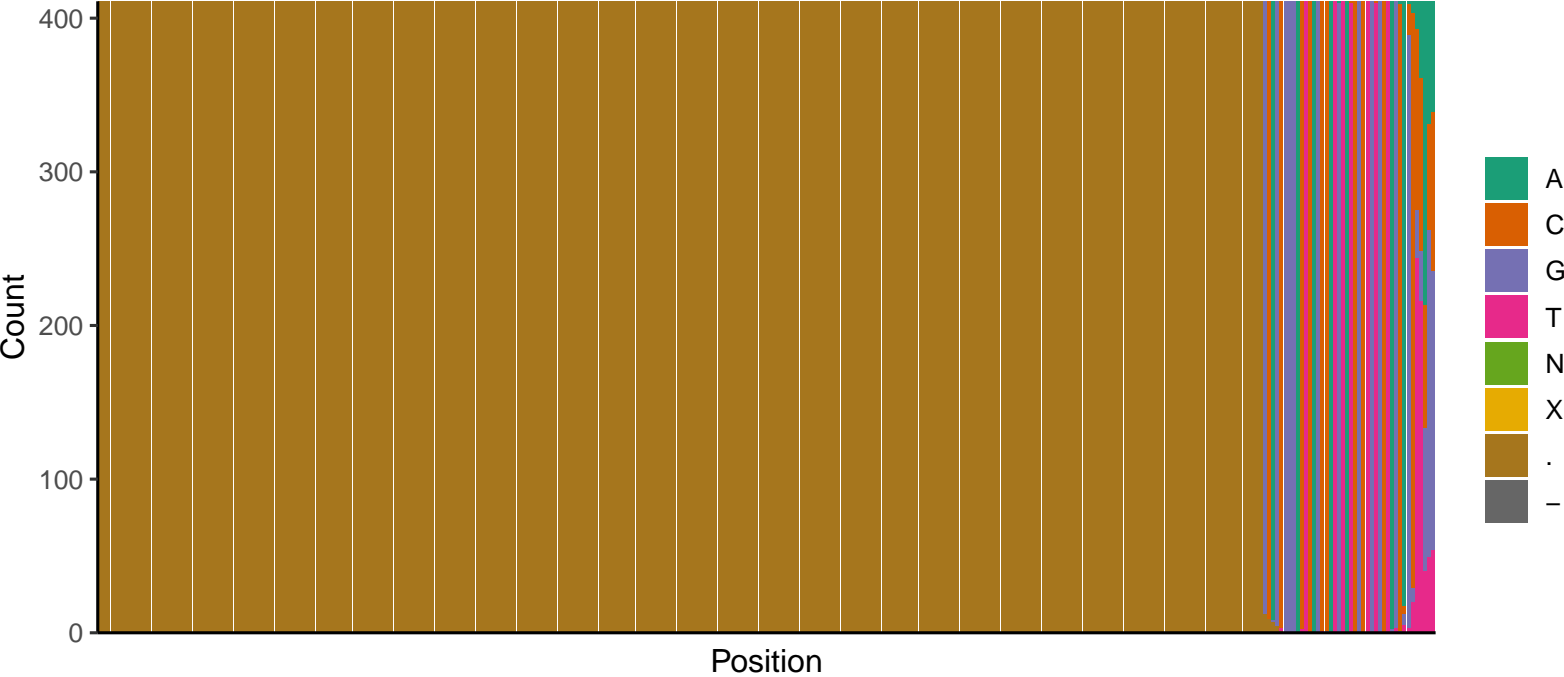
Gene TRBV7-1*ap01_G291C_T296C_C314T



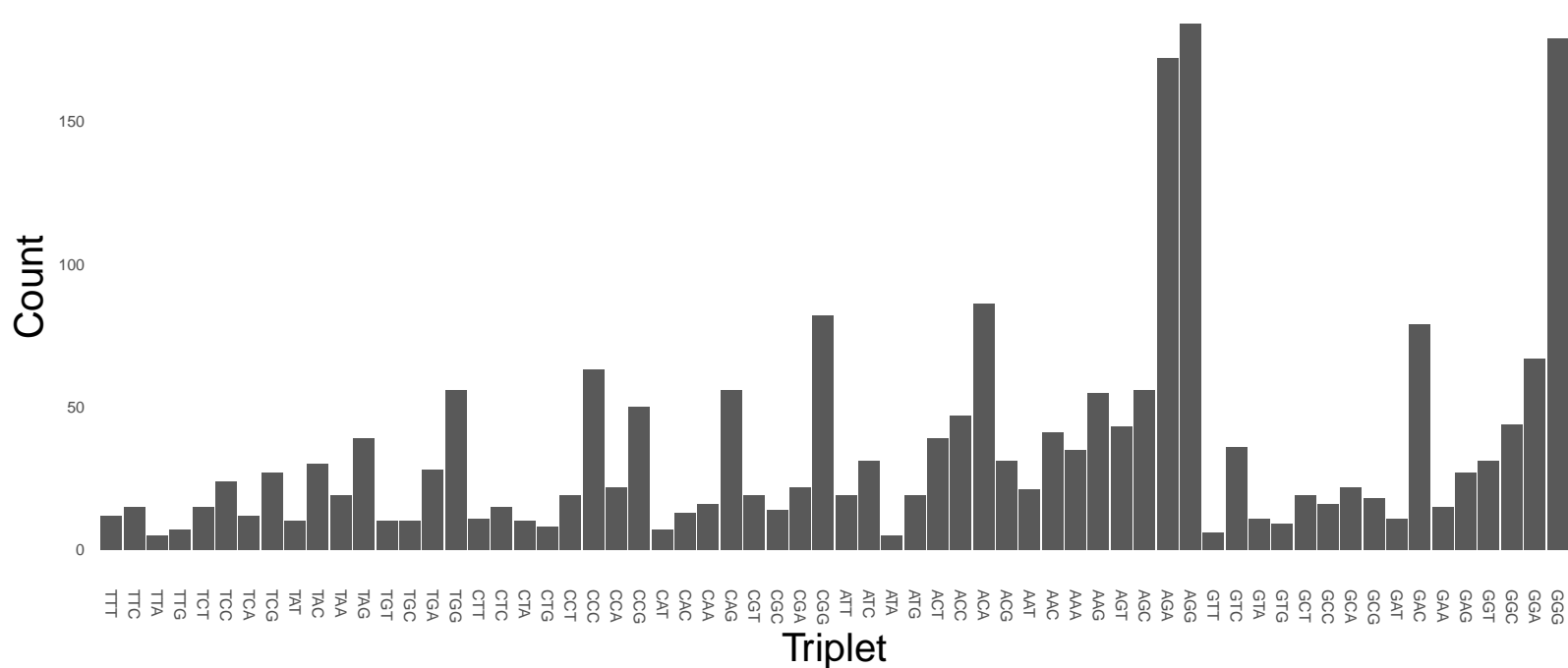
Gene TRBV7-1*ap01_G291C_T296C



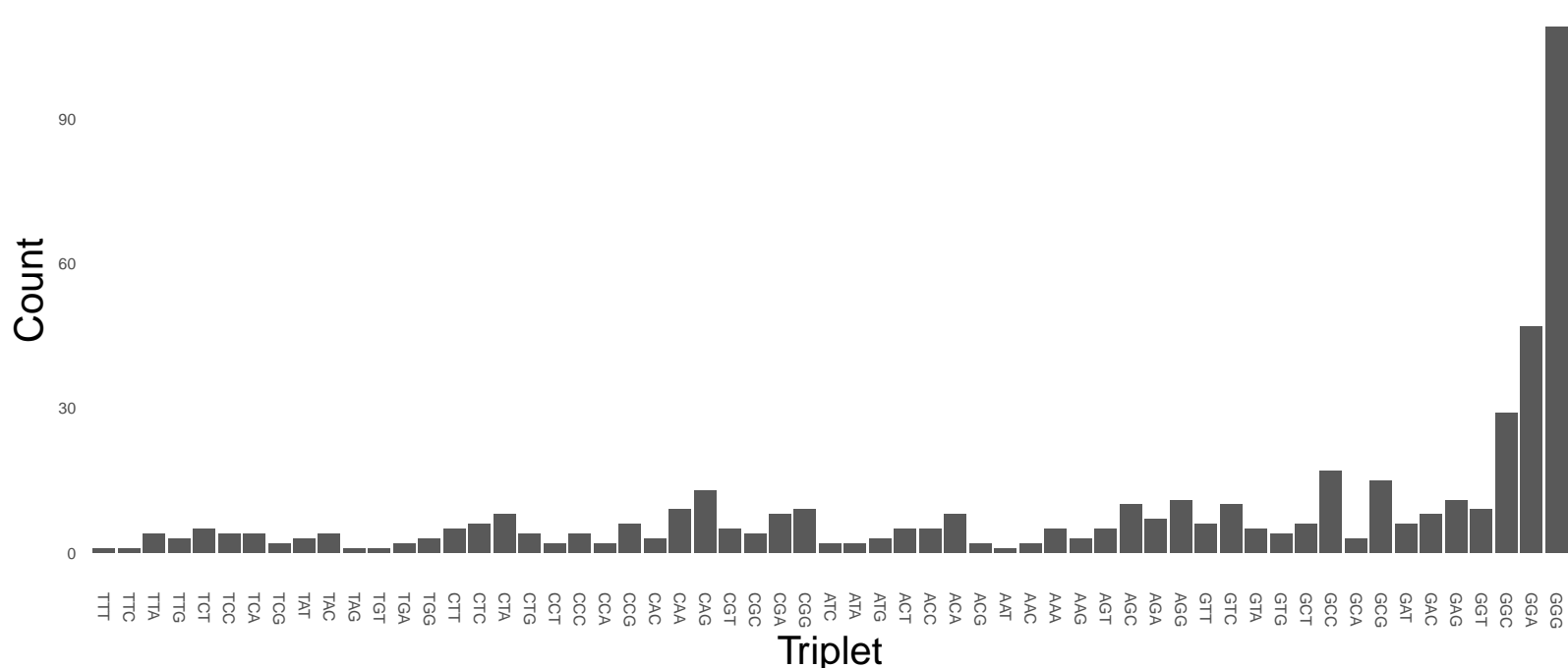
Gene TRBV7-7*ap01_C315T



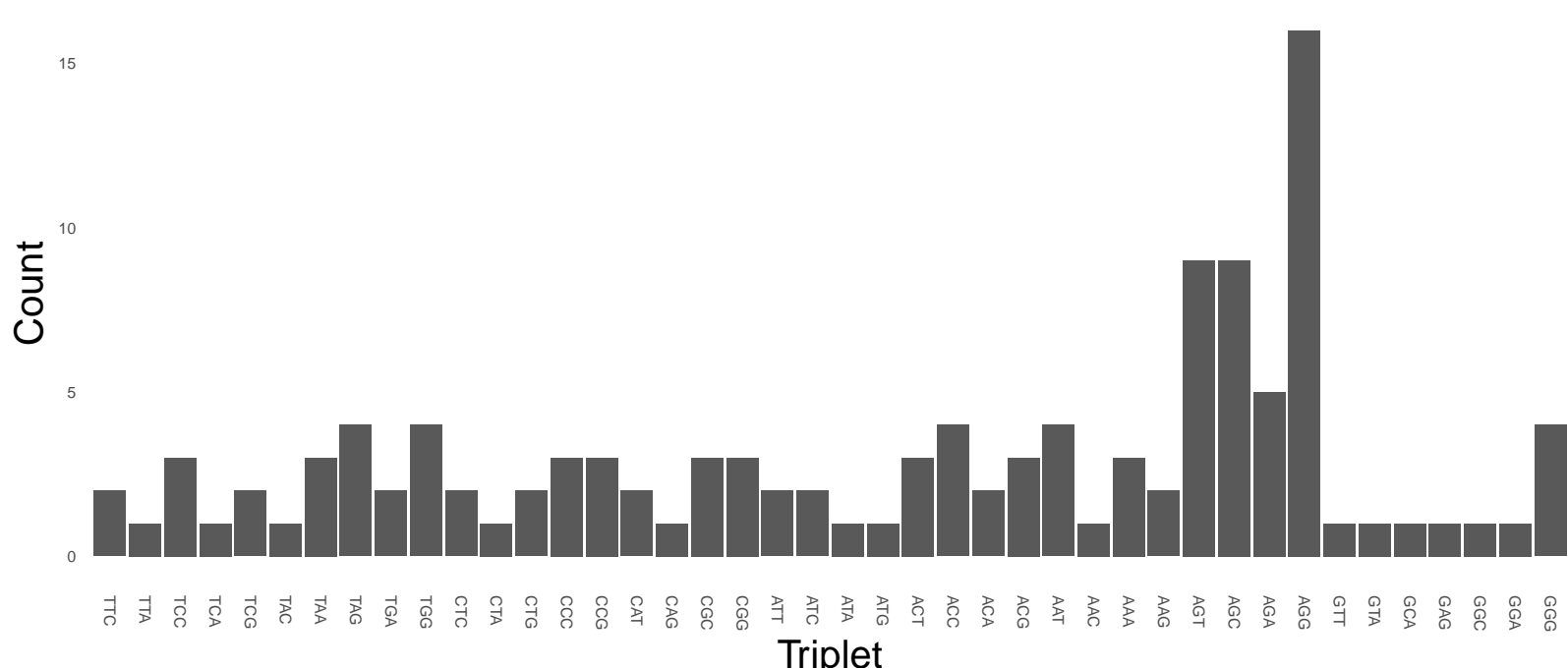
TRBV29–1*ap01_C309G– Final 3 nucleotides as a triplet



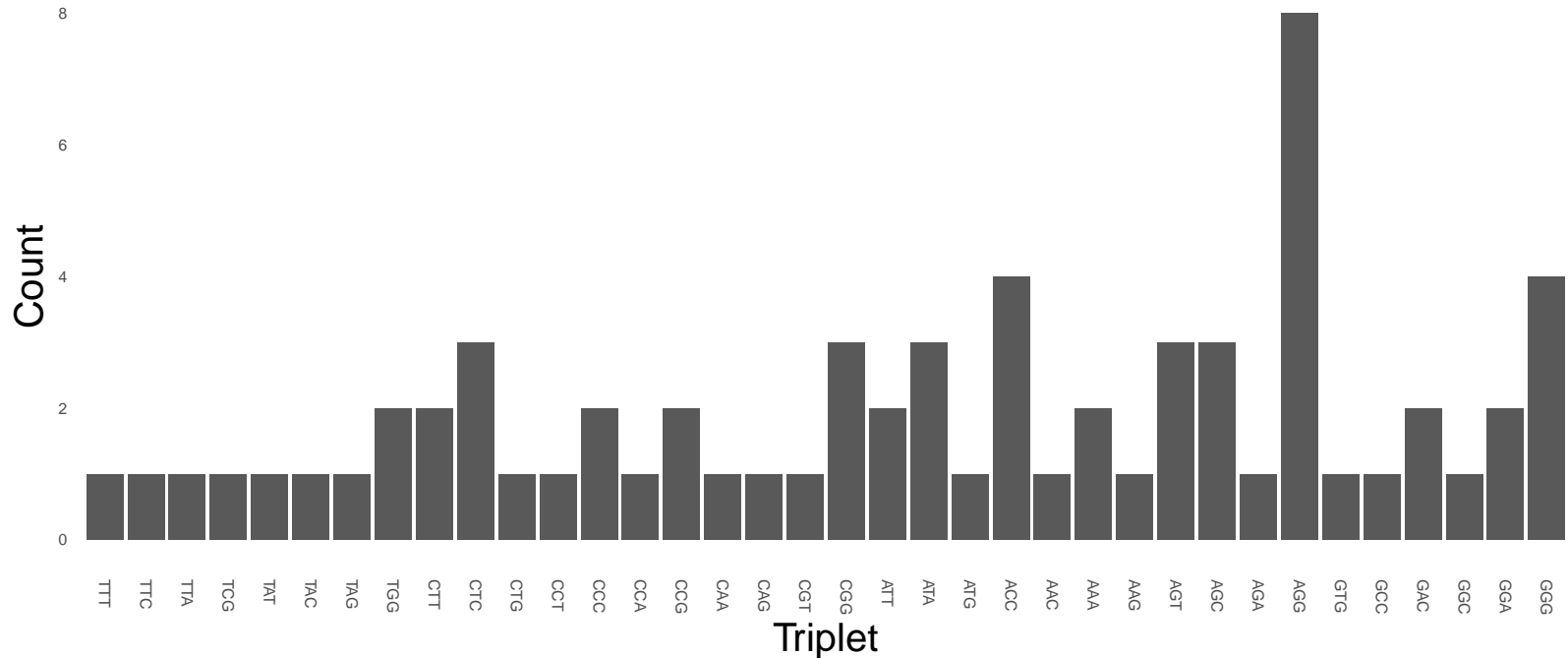
TRBV29–1*ap02_C309G– Final 3 nucleotides as a triplet



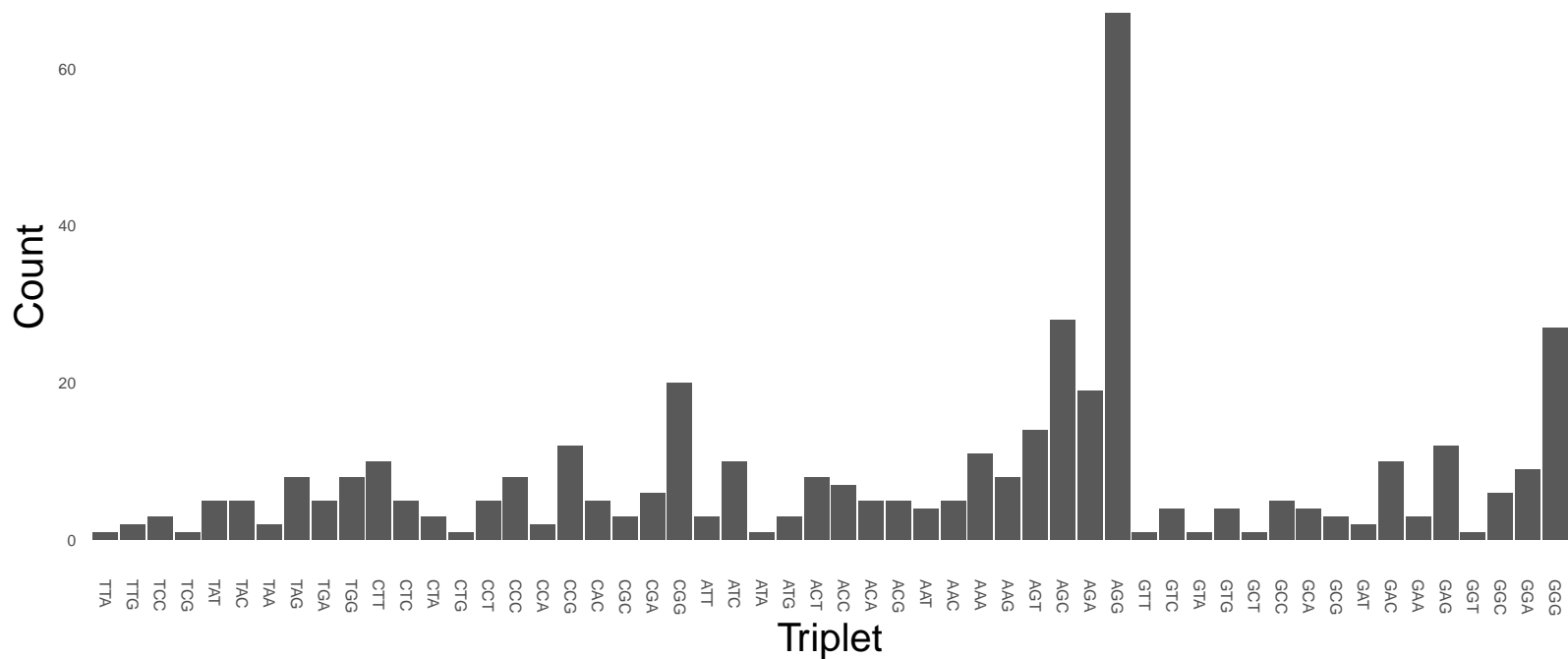
TRBV7–1*ap01_G291C_T296C_C314T– Final 3 nucleotides as a triplet



TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet

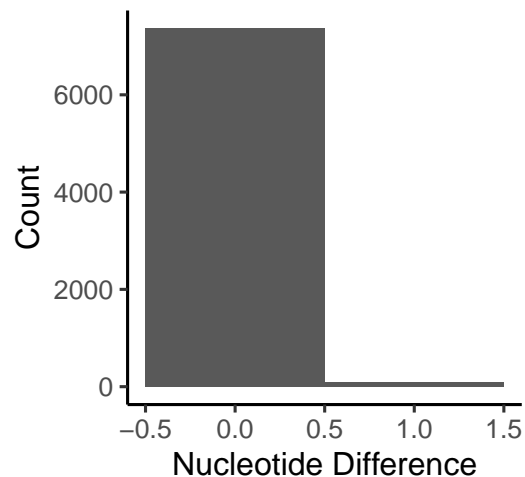


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



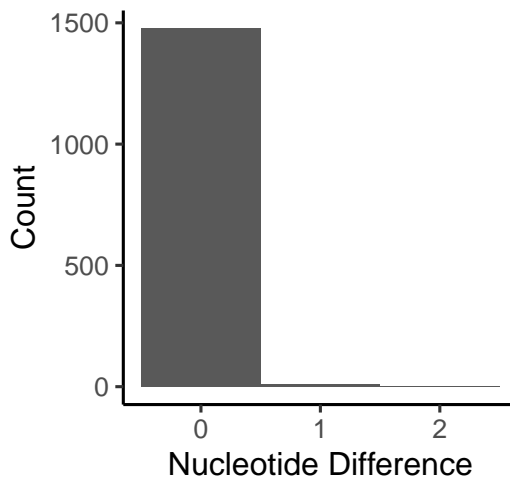
TRBV20-1*ap01

7465 sequences assigned
7365 (98.7%) exact matches, in which:
7220 unique CDR3
13 unique J



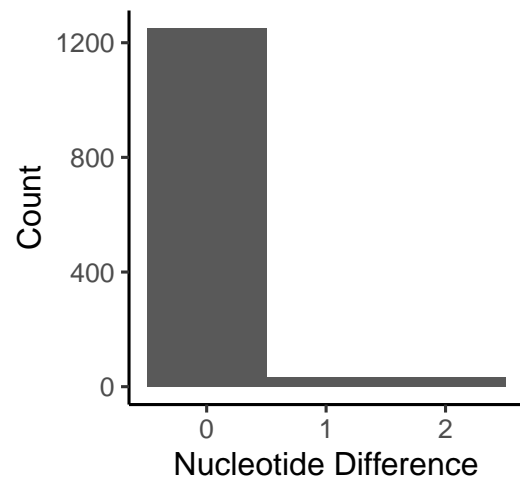
TRBV10-2*ap01

1488 sequences assigned
1477 (99.3%) exact matches, in which:
1439 unique CDR3
13 unique J



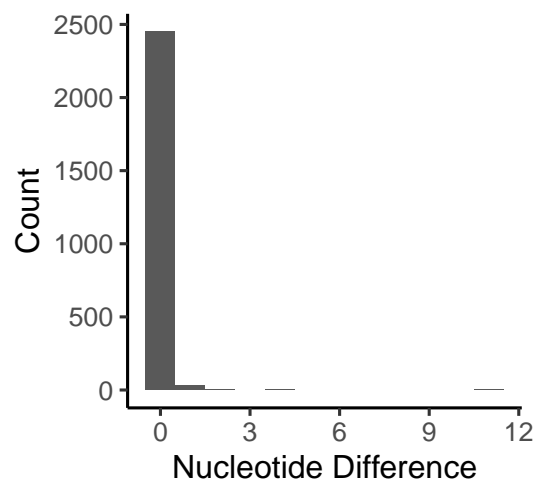
TRBV13*ap01

1315 sequences assigned
1250 (95.1%) exact matches, in which:
1217 unique CDR3
13 unique J



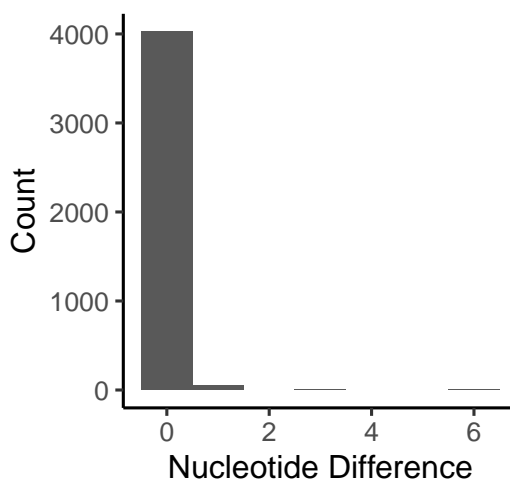
TRBV10-1*ap01

2483 sequences assigned
2450 (98.7%) exact matches, in which:
2382 unique CDR3
13 unique J



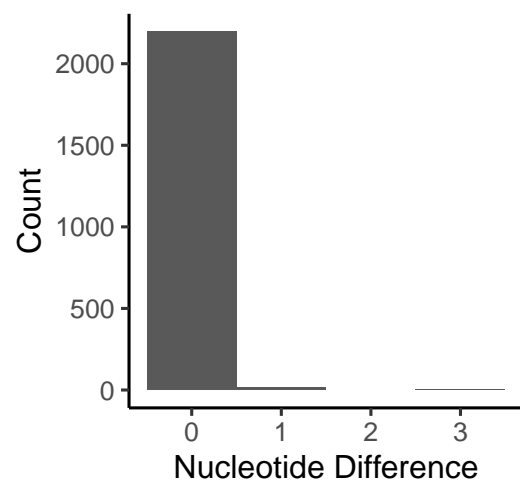
TRBV10-3*ap01

4075 sequences assigned
4025 (98.8%) exact matches, in which:
3914 unique CDR3
13 unique J



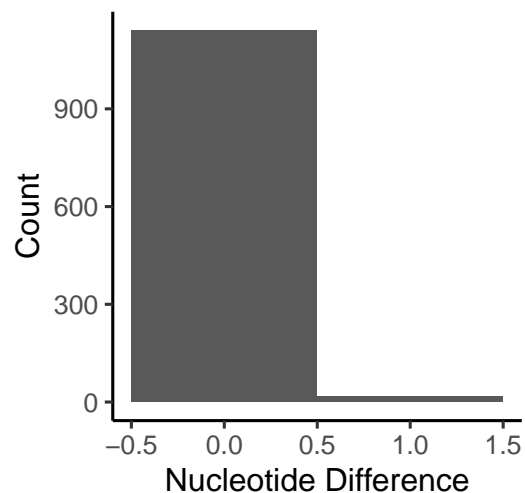
TRBV14*ap01

2215 sequences assigned
2196 (99.1%) exact matches, in which:
2155 unique CDR3
13 unique J



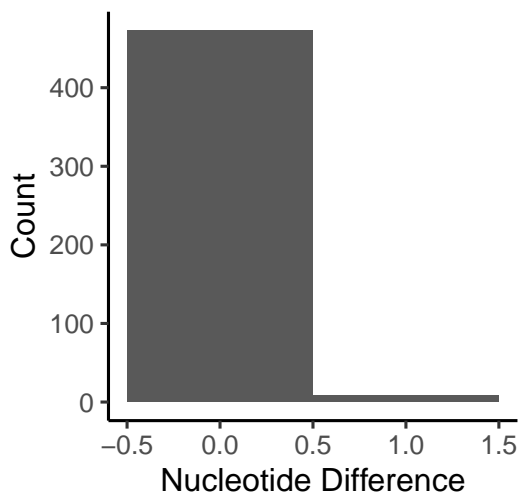
TRBV20-1*ap02

1157 sequences assigned
1141 (98.6%) exact matches, in which:
1116 unique CDR3
13 unique J



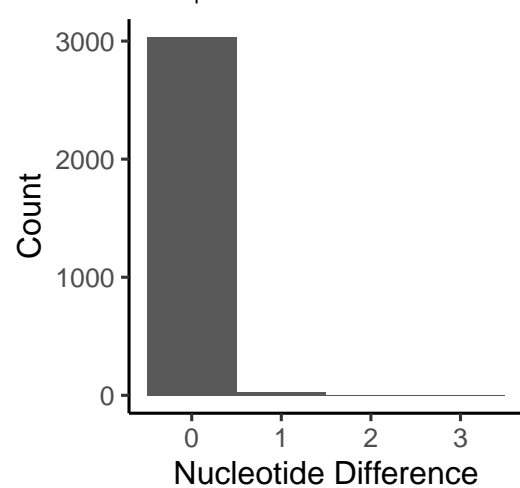
TRBV1*ap01

481 sequences assigned
473 (98.3%) exact matches, in which:
463 unique CDR3
13 unique J



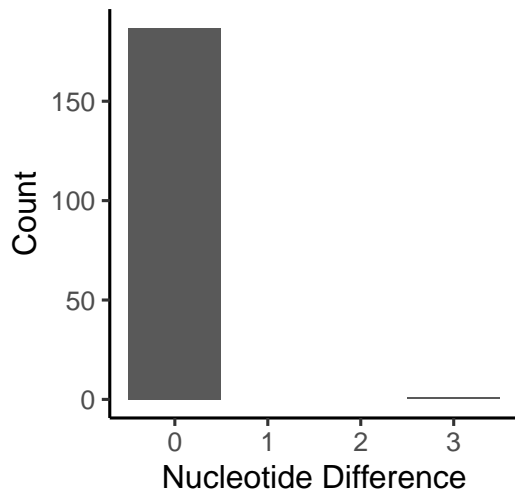
TRBV15*ap02

3066 sequences assigned
3034 (99%) exact matches, in which:
2963 unique CDR3
13 unique J



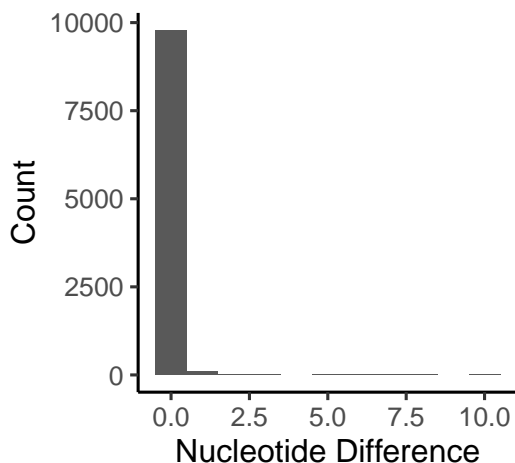
TRBV16*ap01

188 sequences assigned
187 (99.5%) exact matches, in which:
185 unique CDR3
13 unique J



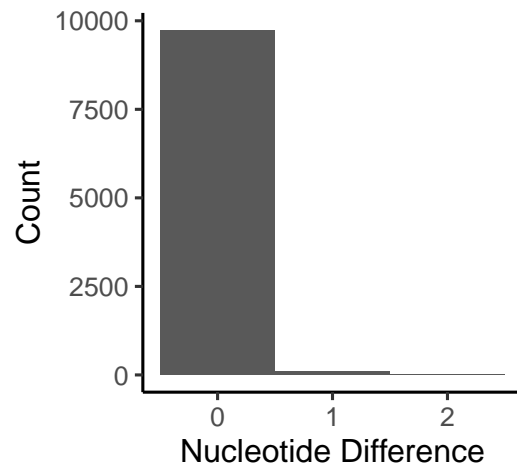
TRBV19*ap01

9899 sequences assigned
9786 (98.9%) exact matches, in which:
9622 unique CDR3
13 unique J



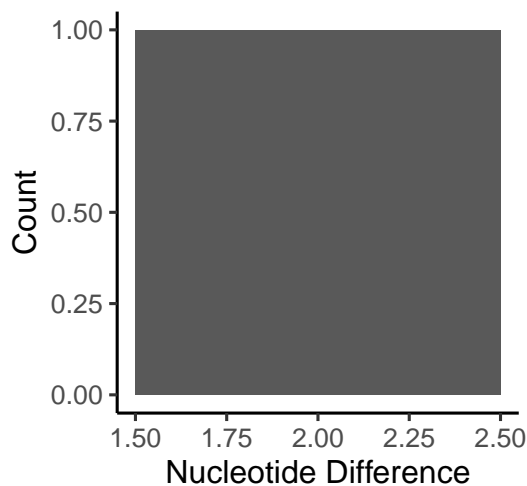
TRBV28*ap01

9836 sequences assigned
9736 (99%) exact matches, in which:
9524 unique CDR3
13 unique J



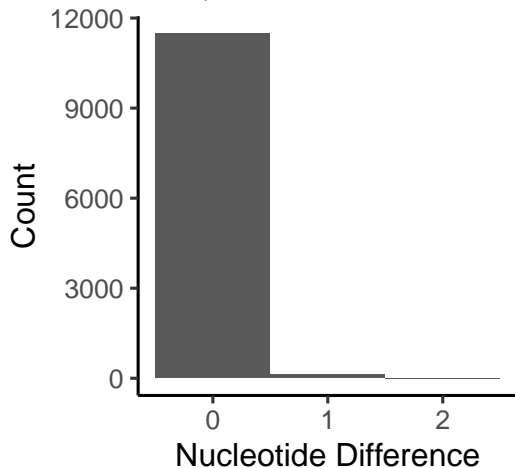
TRBV17*ap01

1 sequences assigned
No exact matches.



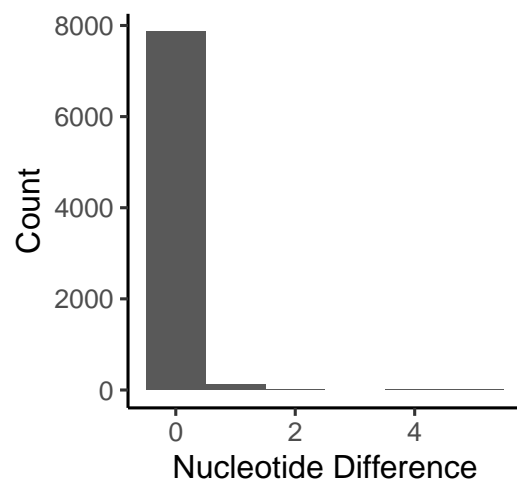
TRBV2*ap01

11620 sequences assigned
11487 (98.9%) exact matches, in which:
11251 unique CDR3
13 unique J



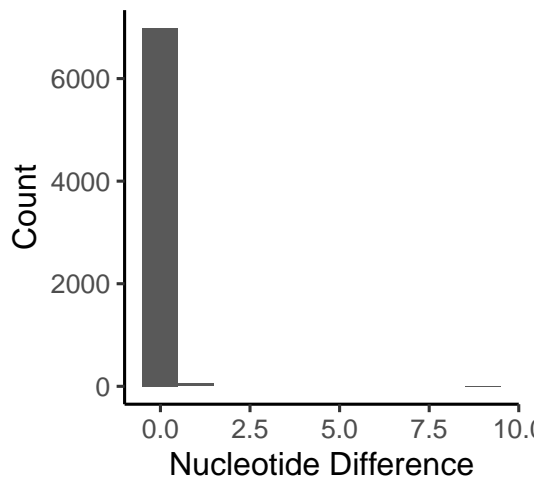
TRBV30*ap01

7988 sequences assigned
7863 (98.4%) exact matches, in which:
7769 unique CDR3
13 unique J



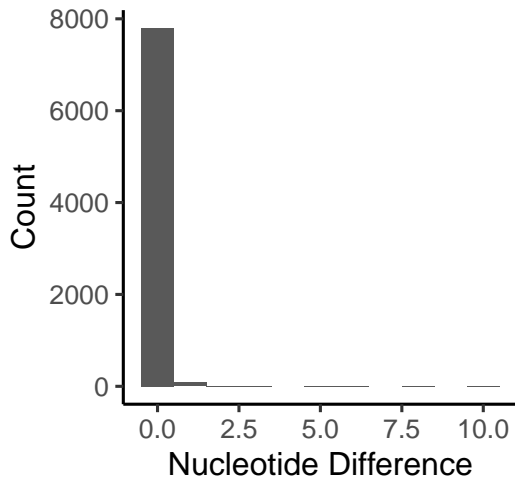
TRBV18*ap01

7038 sequences assigned
6985 (99.2%) exact matches, in which:
6883 unique CDR3
13 unique J



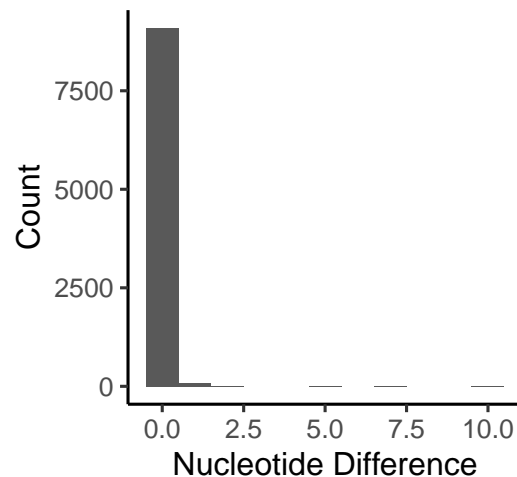
TRBV27*ap01

7896 sequences assigned
7799 (98.8%) exact matches, in which:
7605 unique CDR3
13 unique J



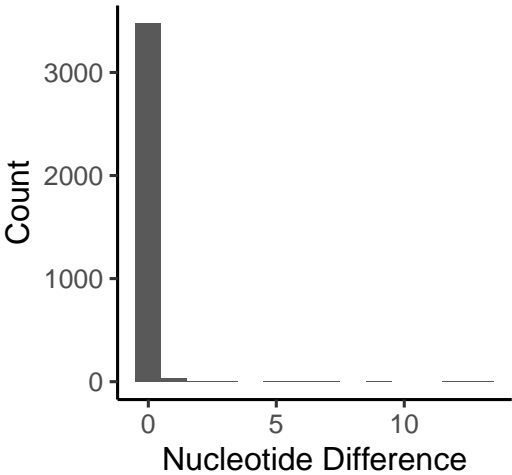
TRBV9*ap01

9192 sequences assigned
9092 (98.9%) exact matches, in which:
8895 unique CDR3
13 unique J



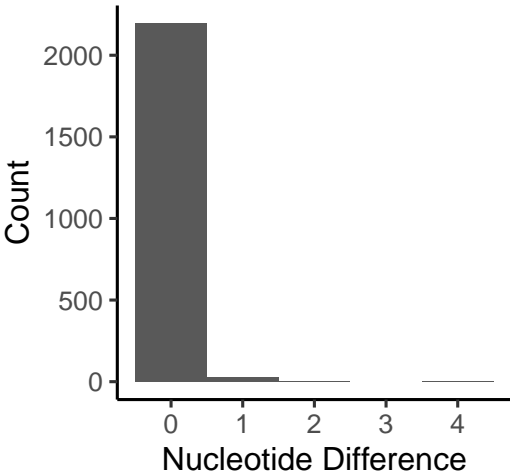
TRBV21-1*ap01

3528 sequences assigned
3476 (98.5%) exact matches, in which:
3402 unique CDR3
13 unique J



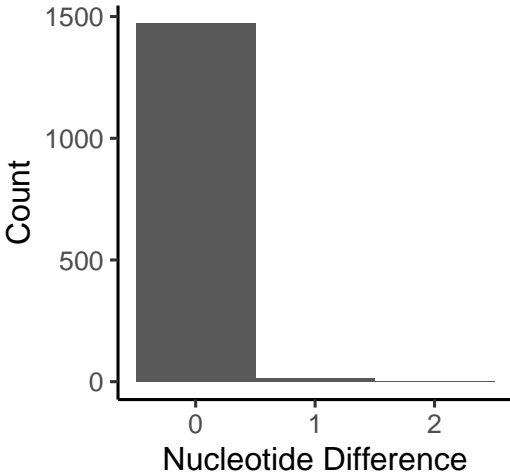
TRBV11-3*ap01

2227 sequences assigned
2195 (98.6%) exact matches, in which:
2148 unique CDR3
13 unique J



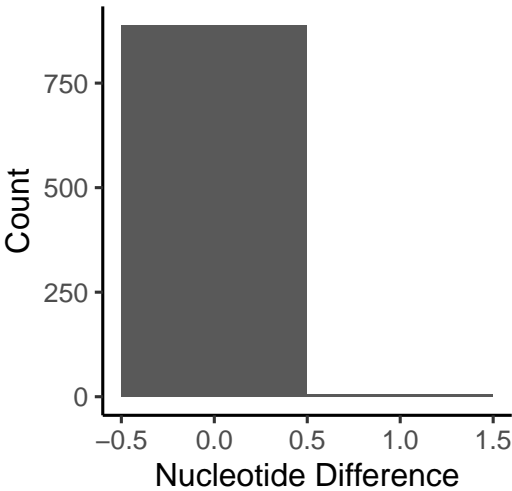
TRBV12-5*ap01

1486 sequences assigned
1472 (99.1%) exact matches, in which:
1448 unique CDR3
13 unique J



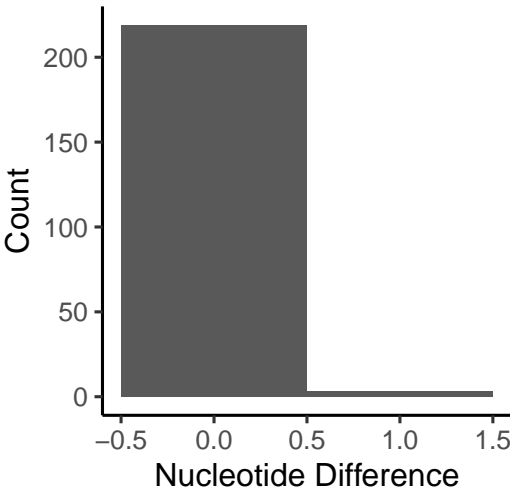
TRBV11-1*ap01

896 sequences assigned
889 (99.2%) exact matches, in which:
869 unique CDR3
13 unique J



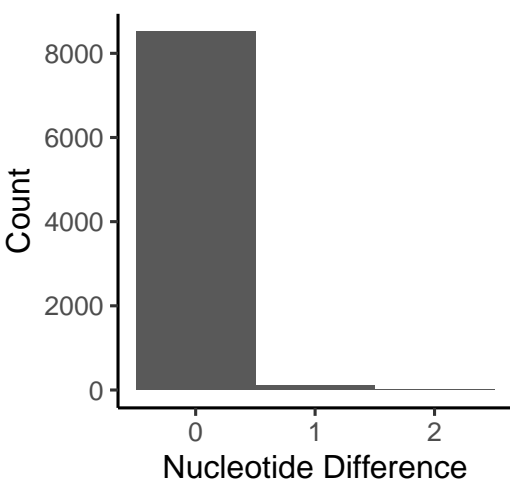
TRBV12-1*ap01

222 sequences assigned
219 (98.6%) exact matches, in which:
211 unique CDR3
13 unique J



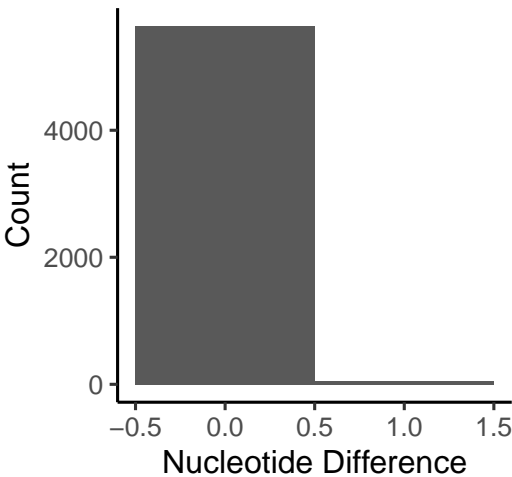
TRBV12-34*ap01

8618 sequences assigned
8513 (98.8%) exact matches, in which:
8338 unique CDR3
13 unique J



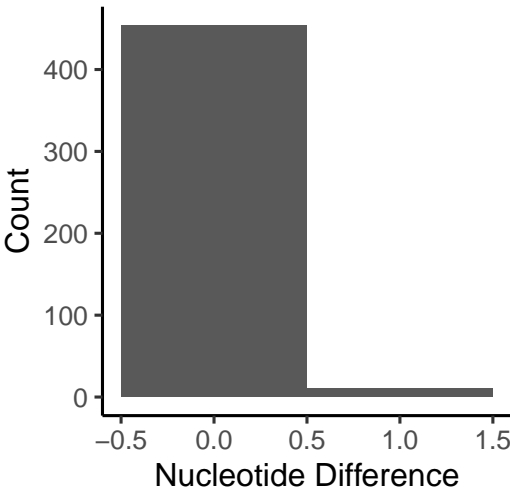
TRBV11-2*ap01

5698 sequences assigned
5641 (99%) exact matches, in which:
5517 unique CDR3
13 unique J



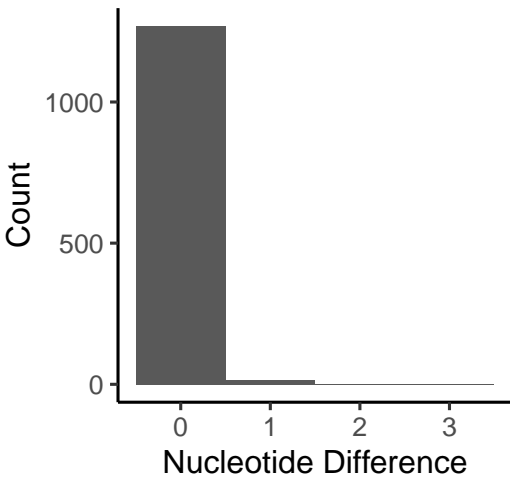
TRBV12-2*ap01

464 sequences assigned
454 (97.8%) exact matches, in which:
443 unique CDR3
13 unique J



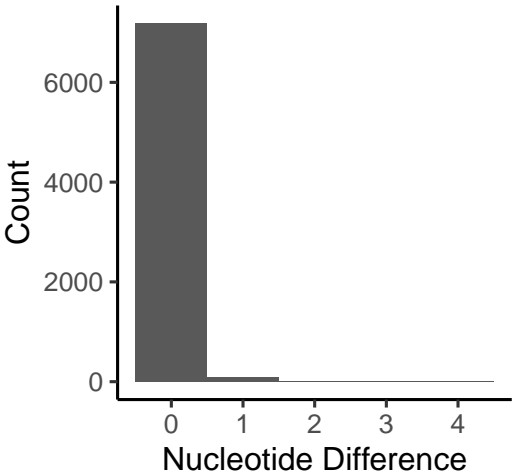
TRBV23-1*ap01

1286 sequences assigned
1269 (98.7%) exact matches, in which:
1241 unique CDR3
13 unique J



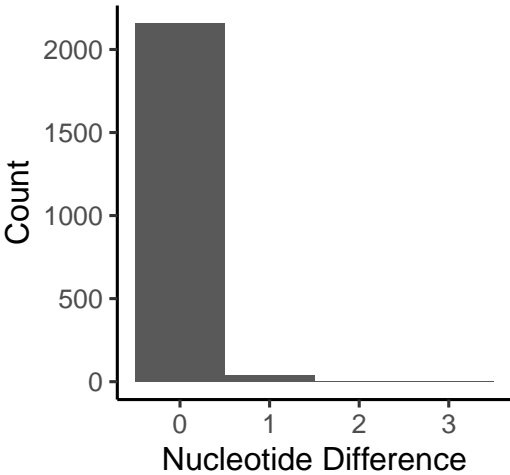
TRBV3-12*ap01

7271 sequences assigned
7182 (98.8%) exact matches, in which:
7025 unique CDR3
13 unique J



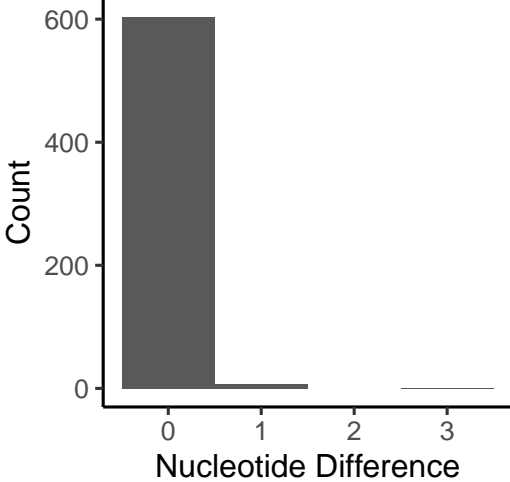
TRBV4-2*ap01

2197 sequences assigned
2157 (98.2%) exact matches, in which:
2121 unique CDR3
13 unique J



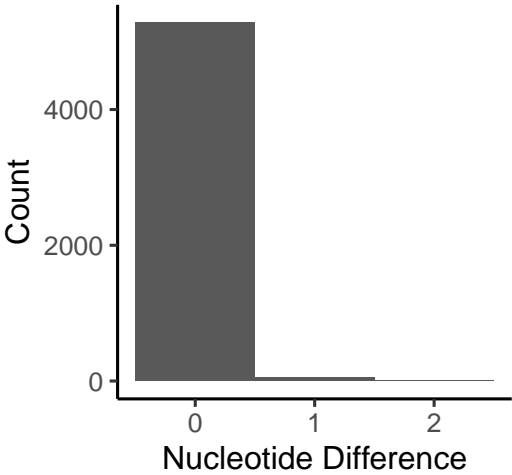
TRBV5-3*ap01

612 sequences assigned
604 (98.7%) exact matches, in which:
591 unique CDR3
13 unique J



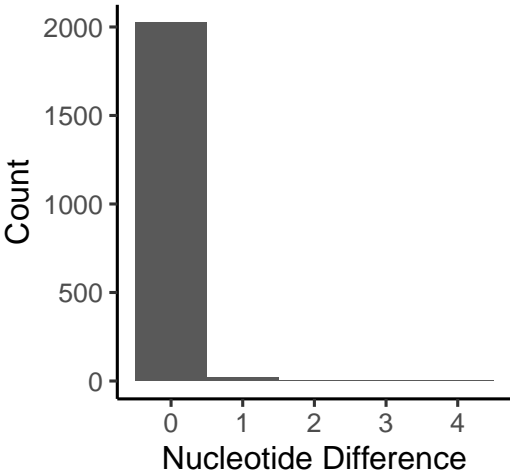
TRBV4-1*ap01

5328 sequences assigned
5279 (99.1%) exact matches, in which:
5151 unique CDR3
13 unique J



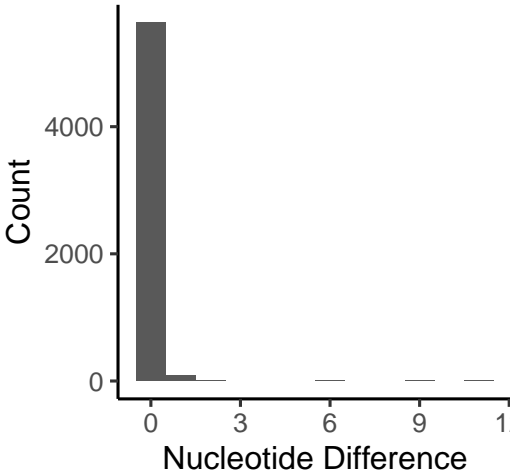
TRBV25-1*ap01

2050 sequences assigned
2024 (98.7%) exact matches, in which:
1980 unique CDR3
13 unique J



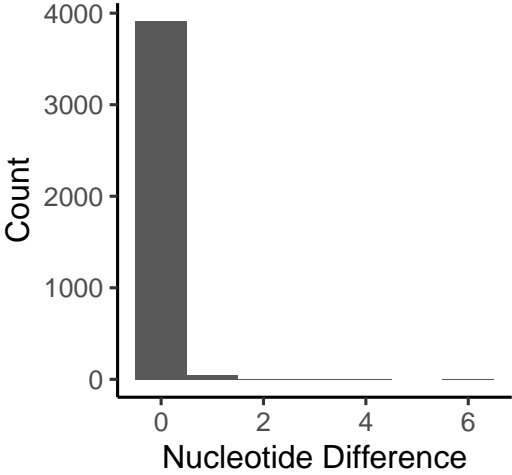
TRBV5-4*ap01

5722 sequences assigned
5635 (98.5%) exact matches, in which:
5515 unique CDR3
13 unique J



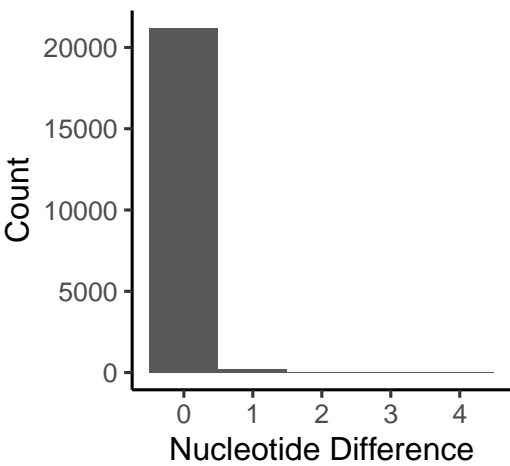
TRBV24-1*ap01

3965 sequences assigned
3914 (98.7%) exact matches, in which:
3838 unique CDR3
13 unique J



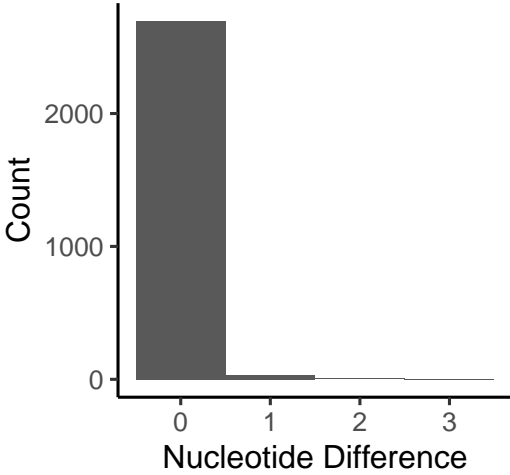
TRBV5-1*ap01

21429 sequences assigned
21210 (99%) exact matches, in which:
20606 unique CDR3
13 unique J



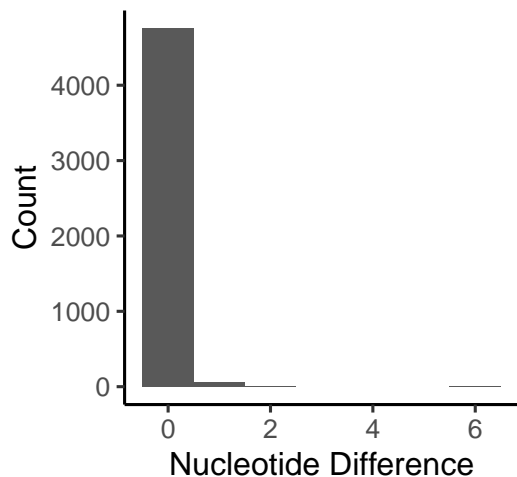
TRBV5-5*ap01

2736 sequences assigned
2696 (98.5%) exact matches, in which:
2657 unique CDR3
13 unique J



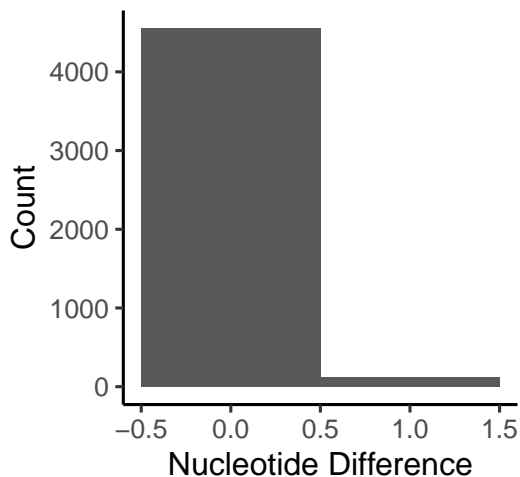
TRBV5-6*ap01

4826 sequences assigned
4754 (98.5%) exact matches, in which:
4612 unique CDR3
13 unique J



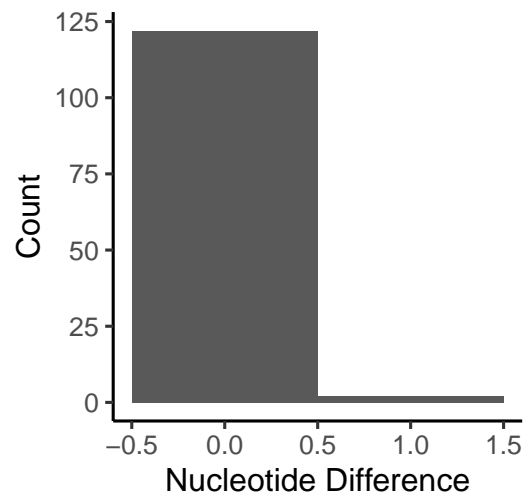
TRBV6-1*ap01

4672 sequences assigned
4552 (97.4%) exact matches, in which:
4445 unique CDR3
13 unique J



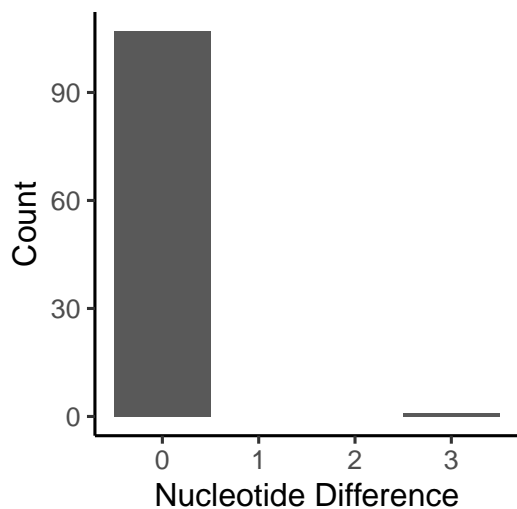
TRBV6-8*ap01

124 sequences assigned
122 (98.4%) exact matches, in which:
121 unique CDR3
13 unique J



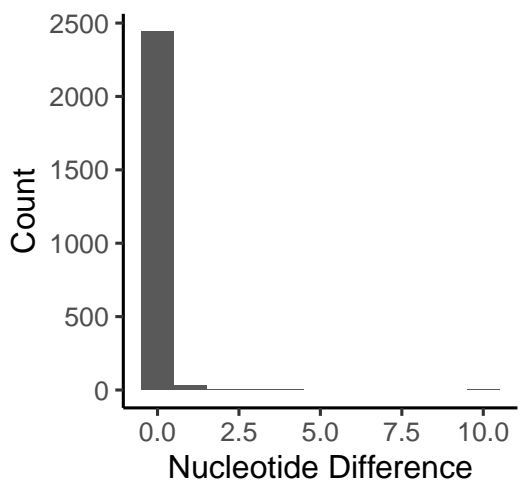
TRBV5-7*ap01

108 sequences assigned
107 (99.1%) exact matches, in which:
104 unique CDR3
13 unique J



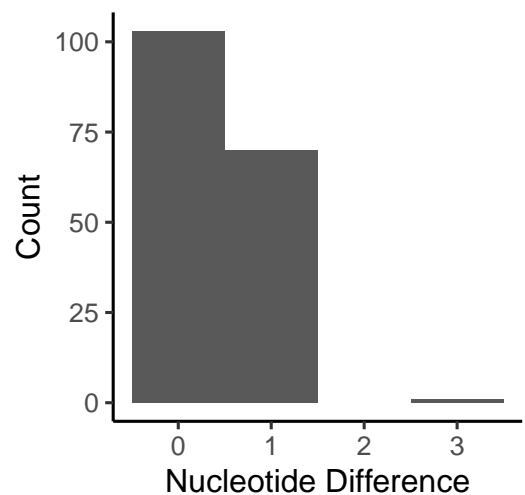
TRBV6-4*ap01

2480 sequences assigned
2441 (98.4%) exact matches, in which:
2399 unique CDR3
13 unique J



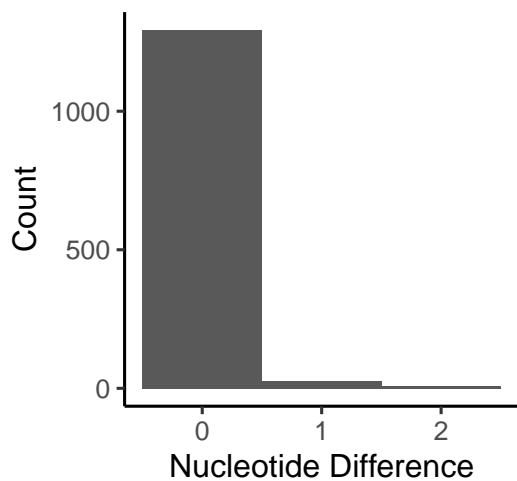
TRBV6-9*ap01

174 sequences assigned
103 (59.2%) exact matches, in which:
102 unique CDR3
13 unique J



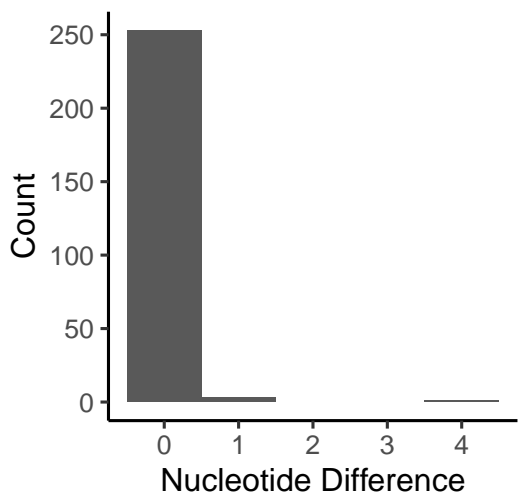
TRBV5-8*ap01

1327 sequences assigned
1293 (97.4%) exact matches, in which:
1271 unique CDR3
13 unique J



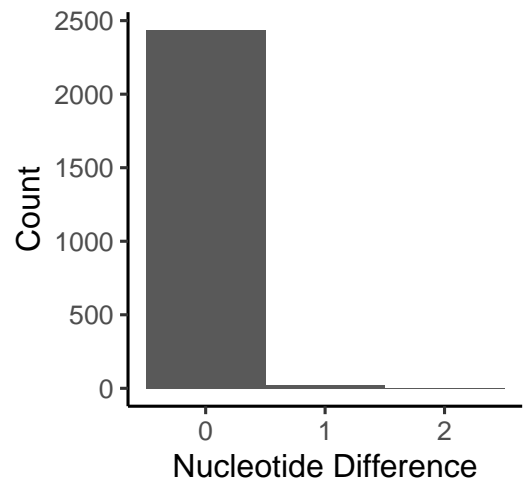
TRBV6-7*ap01

257 sequences assigned
253 (98.4%) exact matches, in which:
242 unique CDR3
13 unique J



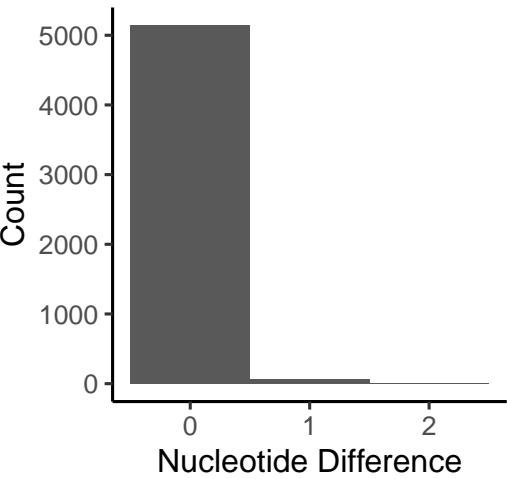
TRBV6-23*ap01

2461 sequences assigned
2436 (99%) exact matches, in which:
2373 unique CDR3
13 unique J



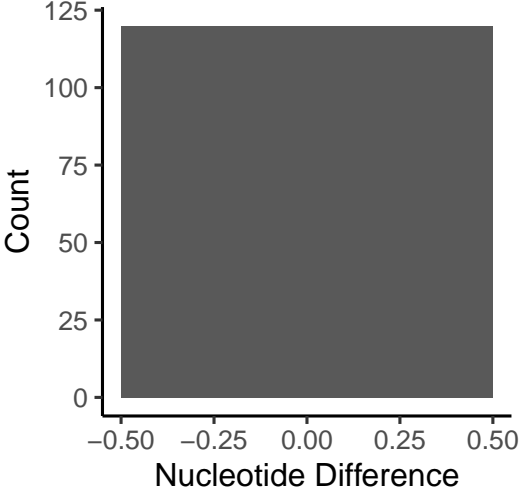
TRBV6-56*ap01

5205 sequences assigned
5141 (98.8%) exact matches, in which:
5032 unique CDR3
13 unique J



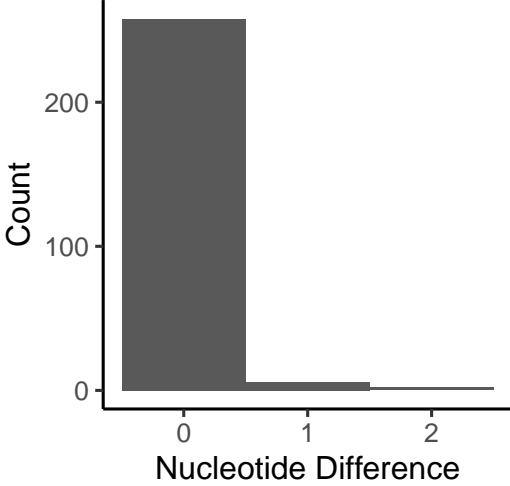
TRBV7-1*ap01_G291C_

120 sequences assigned
120 (100%) exact matches, in which:
118 unique CDR3
13 unique J



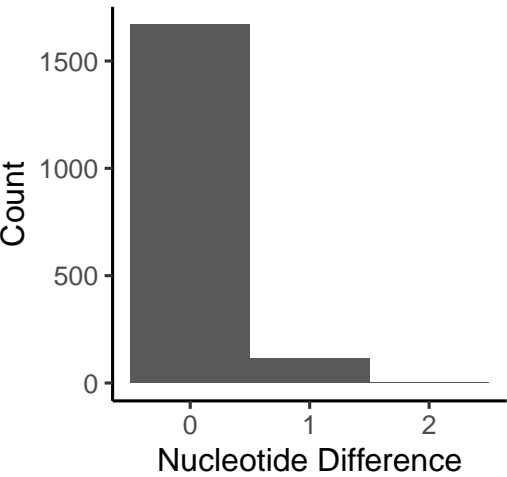
TRBV7-4*ap01

266 sequences assigned
258 (97%) exact matches, in which:
255 unique CDR3
13 unique J



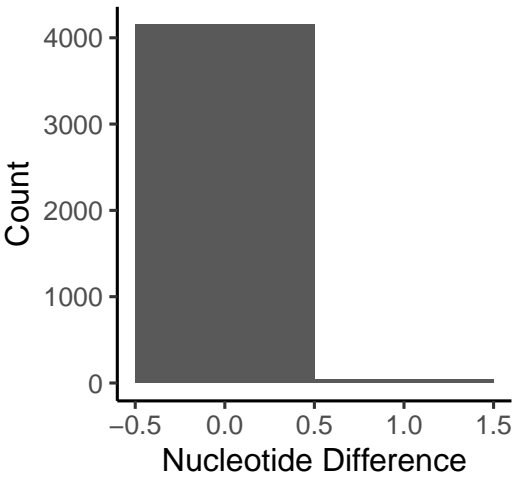
TRBV6-56*ap02

1783 sequences assigned
1669 (93.6%) exact matches, in which:
1629 unique CDR3
13 unique J



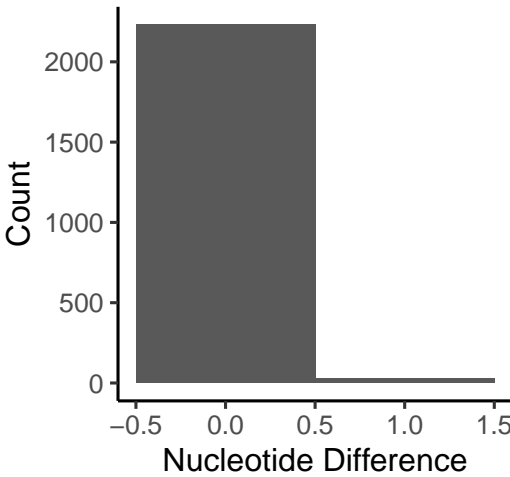
TRBV7-2*ap01

4187 sequences assigned
4151 (99.1%) exact matches, in which:
4088 unique CDR3
14 unique J



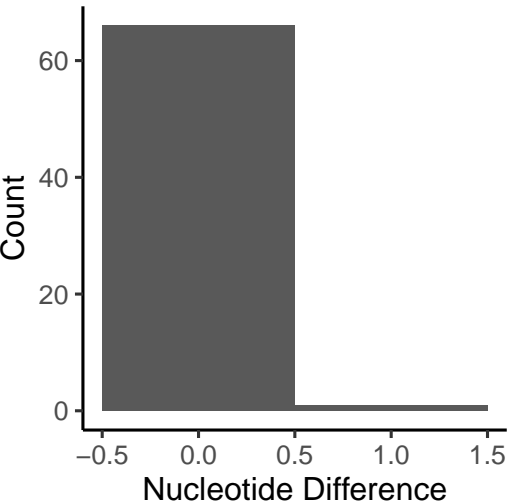
TRBV7-6*ap01

2257 sequences assigned
2231 (98.8%) exact matches, in which:
2173 unique CDR3
13 unique J



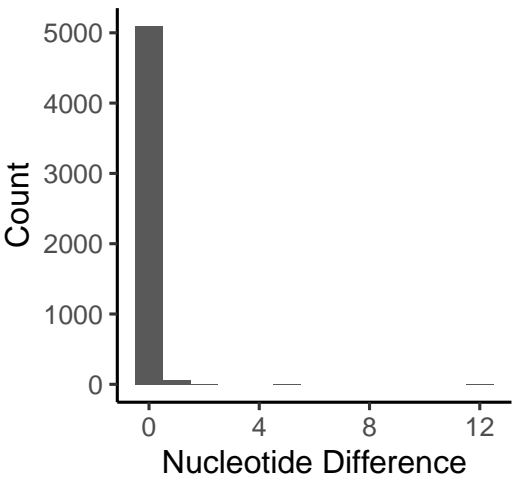
TRBV7-1*ap01_G291C_T

67 sequences assigned
66 (98.5%) exact matches, in which:
66 unique CDR3
13 unique J



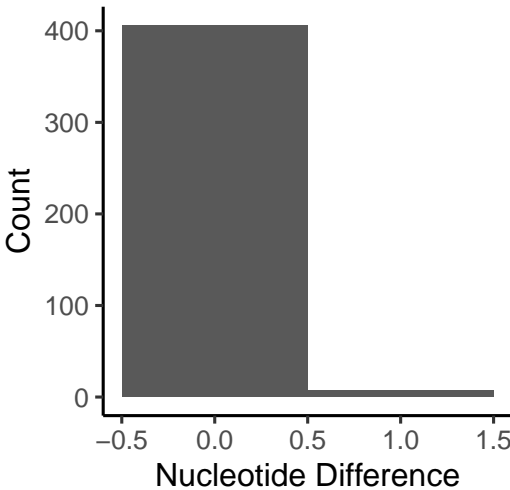
TRBV7-3*ap01

5166 sequences assigned
5096 (98.6%) exact matches, in which:
5009 unique CDR3
13 unique J



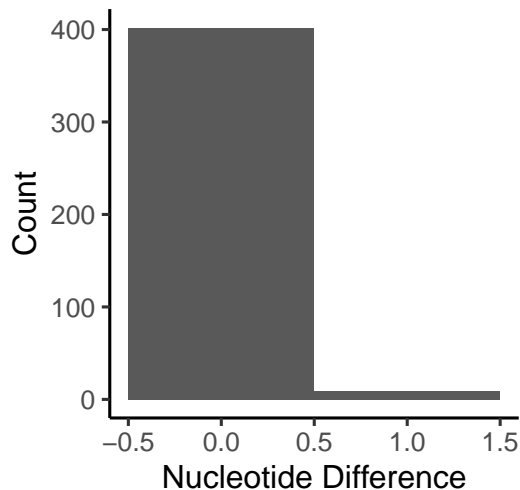
TRBV7-7*ap01

413 sequences assigned
406 (98.3%) exact matches, in which:
398 unique CDR3
13 unique J



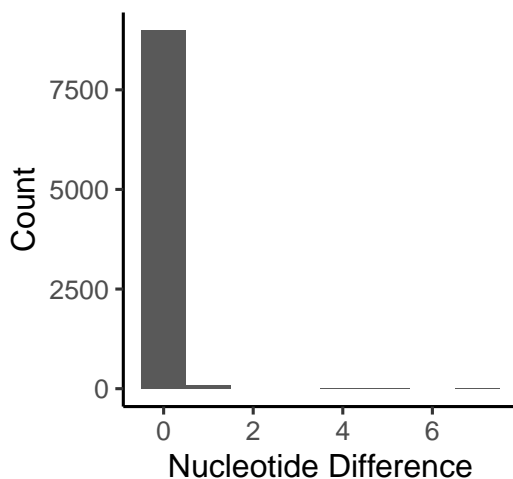
TRBV7-7*ap01_C315T

411 sequences assigned
402 (97.8%) exact matches, in which:
395 unique CDR3
13 unique J



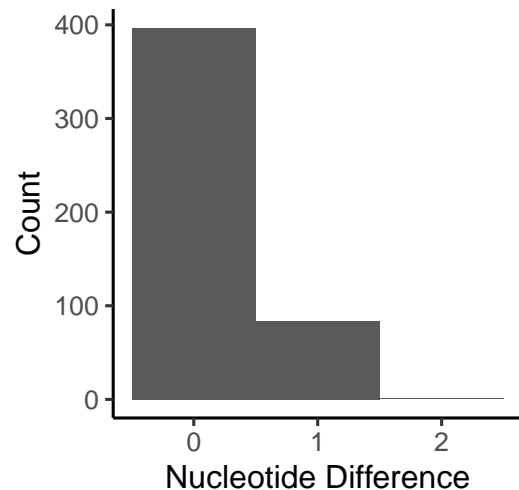
TRBV7-9*ap01

9076 sequences assigned
8991 (99.1%) exact matches, in which:
8816 unique CDR3
13 unique J



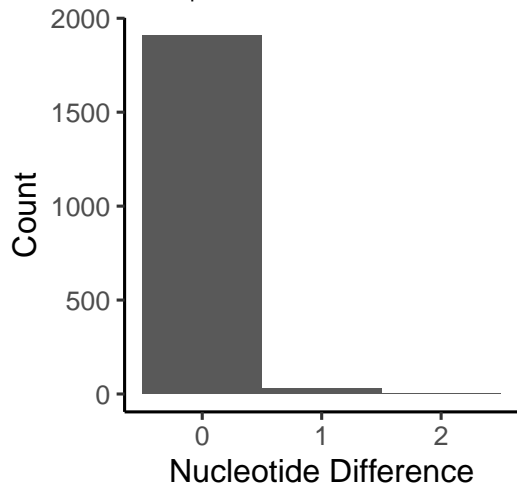
TRBV29-1*ap02_C309G

482 sequences assigned
397 (82.4%) exact matches, in which:
392 unique CDR3
13 unique J



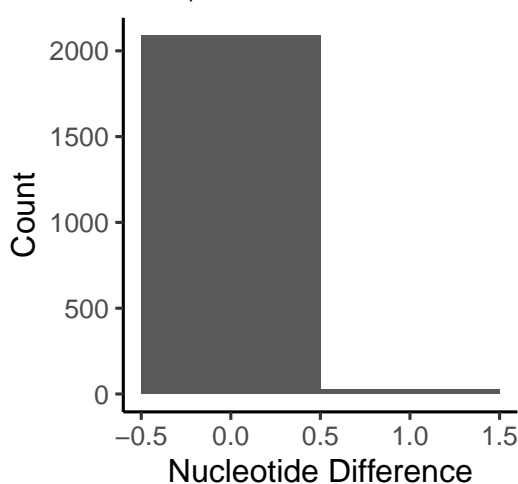
TRBV7-8*ap01

1935 sequences assigned
1907 (98.6%) exact matches, in which:
1861 unique CDR3
13 unique J



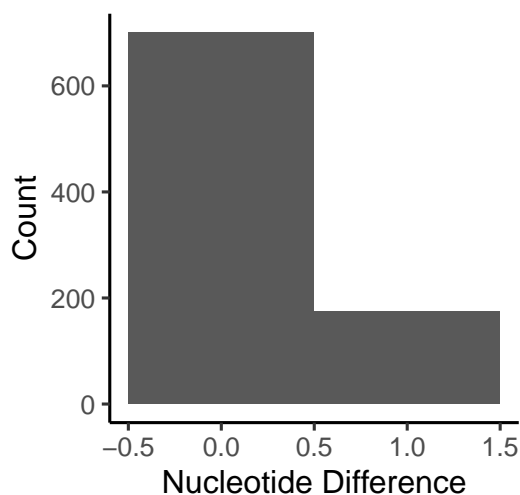
TRBV29-1*ap01

2112 sequences assigned
2088 (98.9%) exact matches, in which:
2043 unique CDR3
13 unique J



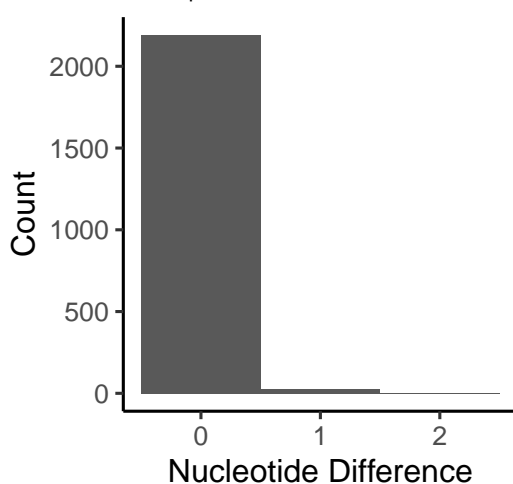
TRBV7-8*ap03

875 sequences assigned
701 (80.1%) exact matches, in which:
687 unique CDR3
13 unique J

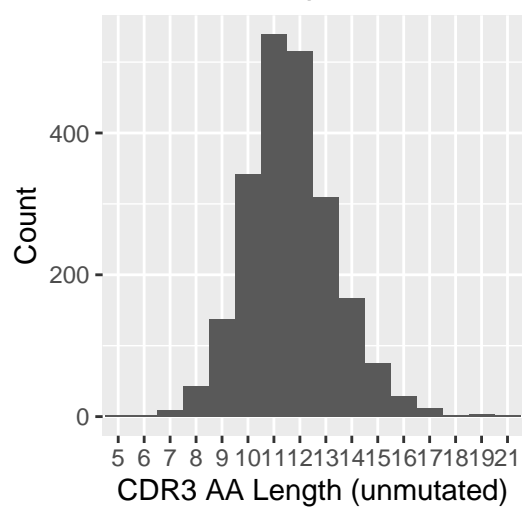


TRBV29-1*ap01_C309G

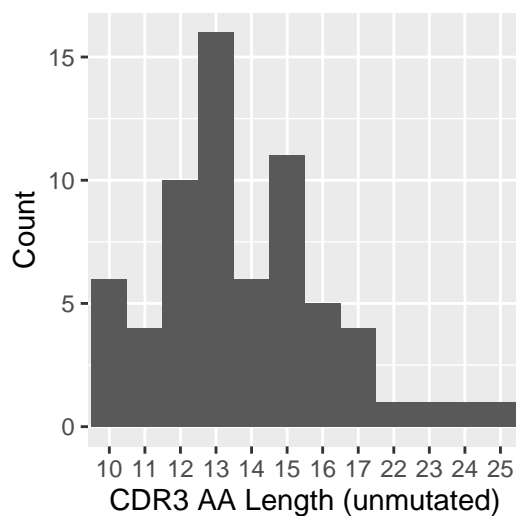
2220 sequences assigned
2191 (98.7%) exact matches, in which:
2148 unique CDR3
13 unique J



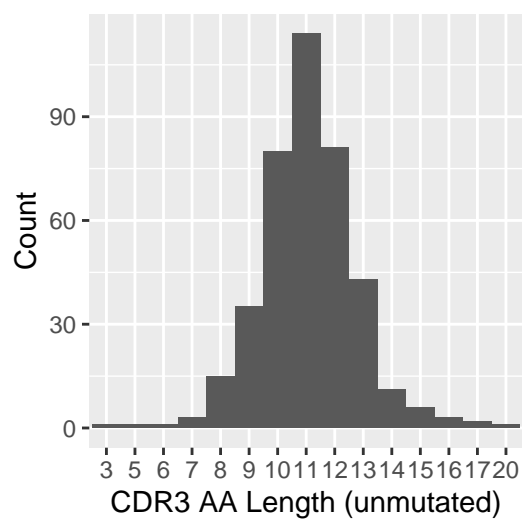
TRBV29-1*ap01_C309G



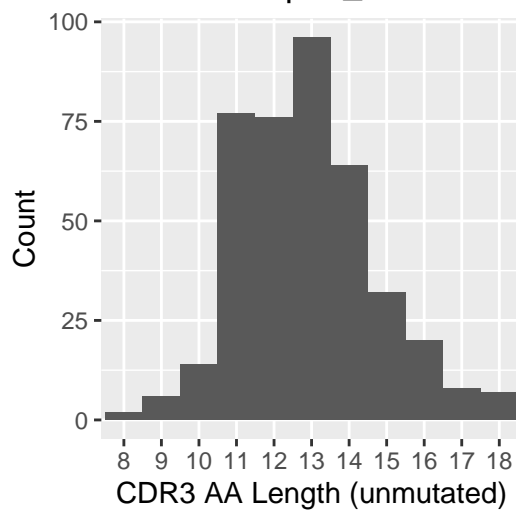
TRBV7-1*ap01_G291C_T296C



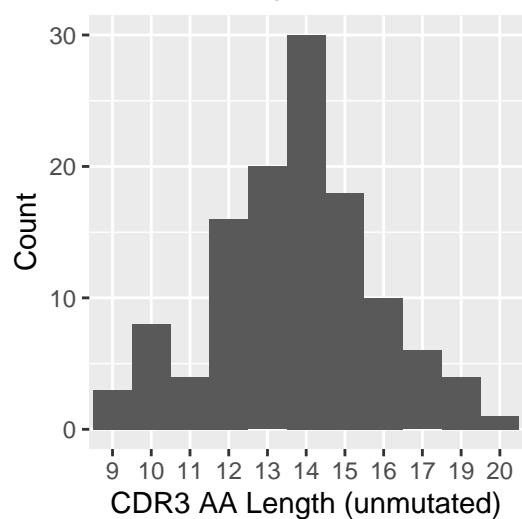
TRBV29-1*ap02_C309G

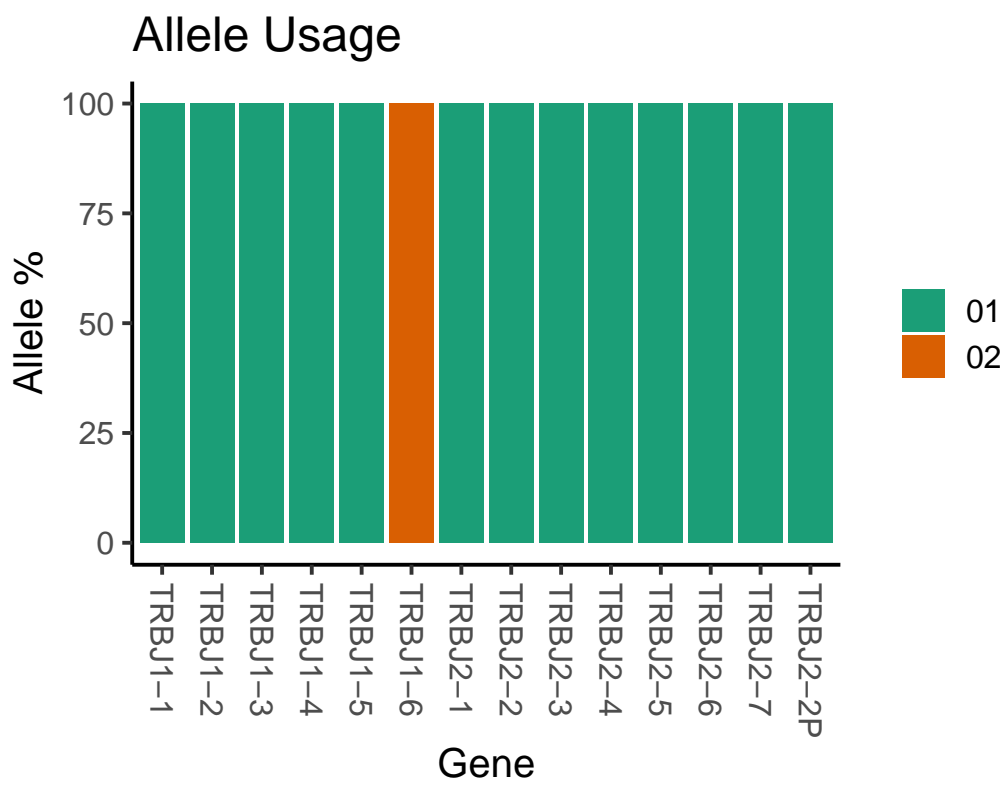


TRBV7-7*ap01_C315T



TRBV7-1*ap01_G291C_T296C_C314T





[illegible]