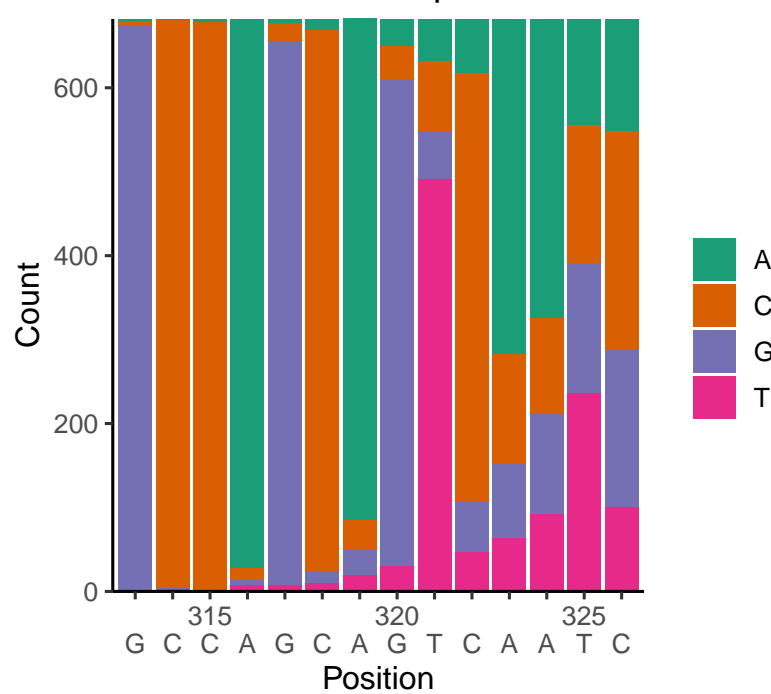
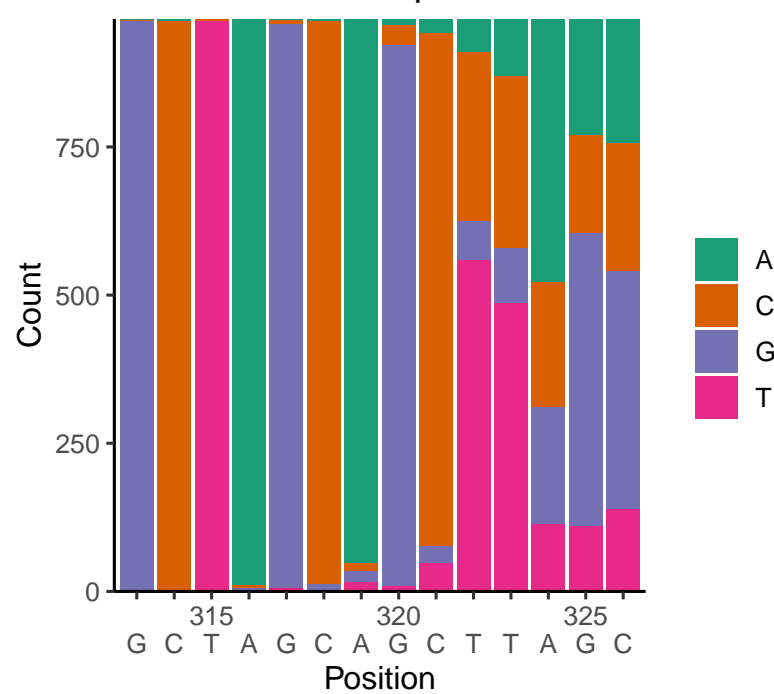


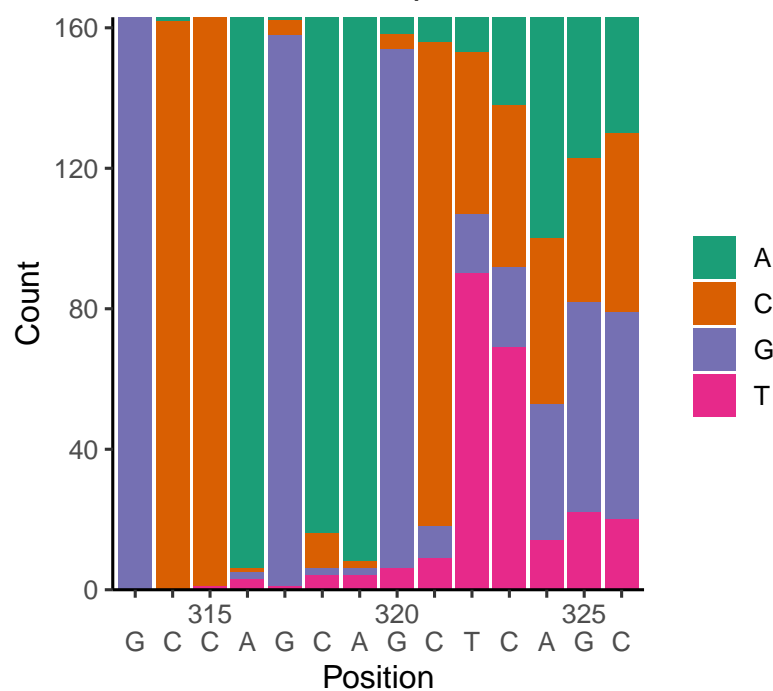
Gene TRBV23-1*ap01_T304C



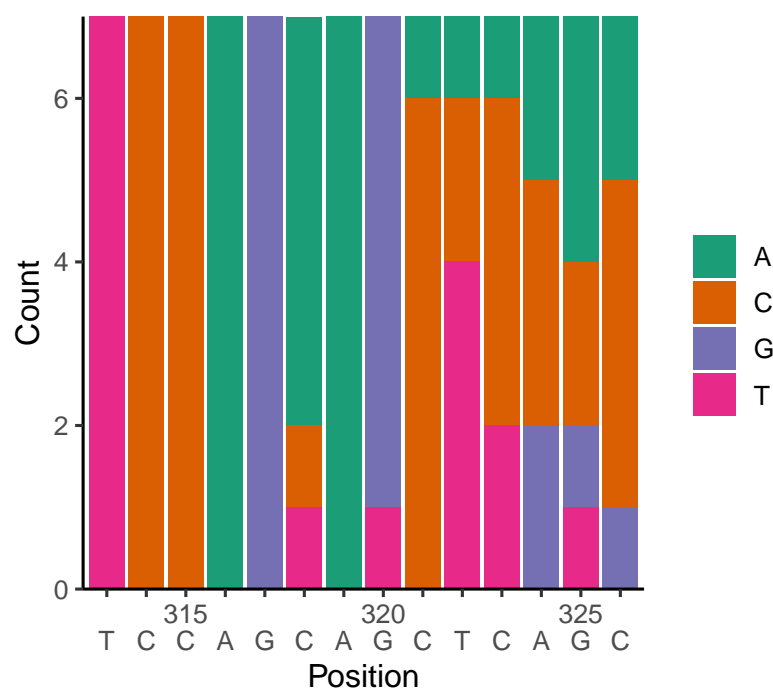
Gene TRBV7-7*ap01_C315T



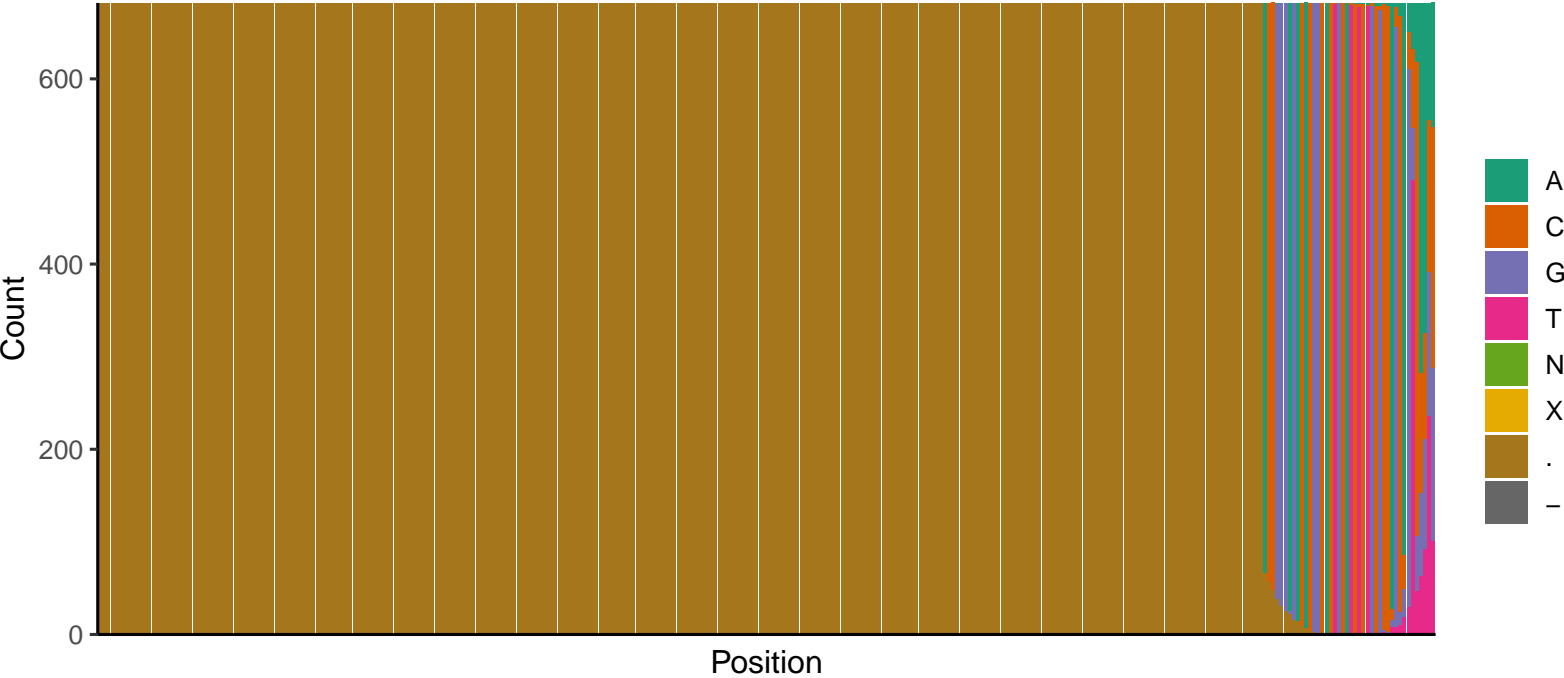
Gene TRBV7-1*ap01_G291C_T296C



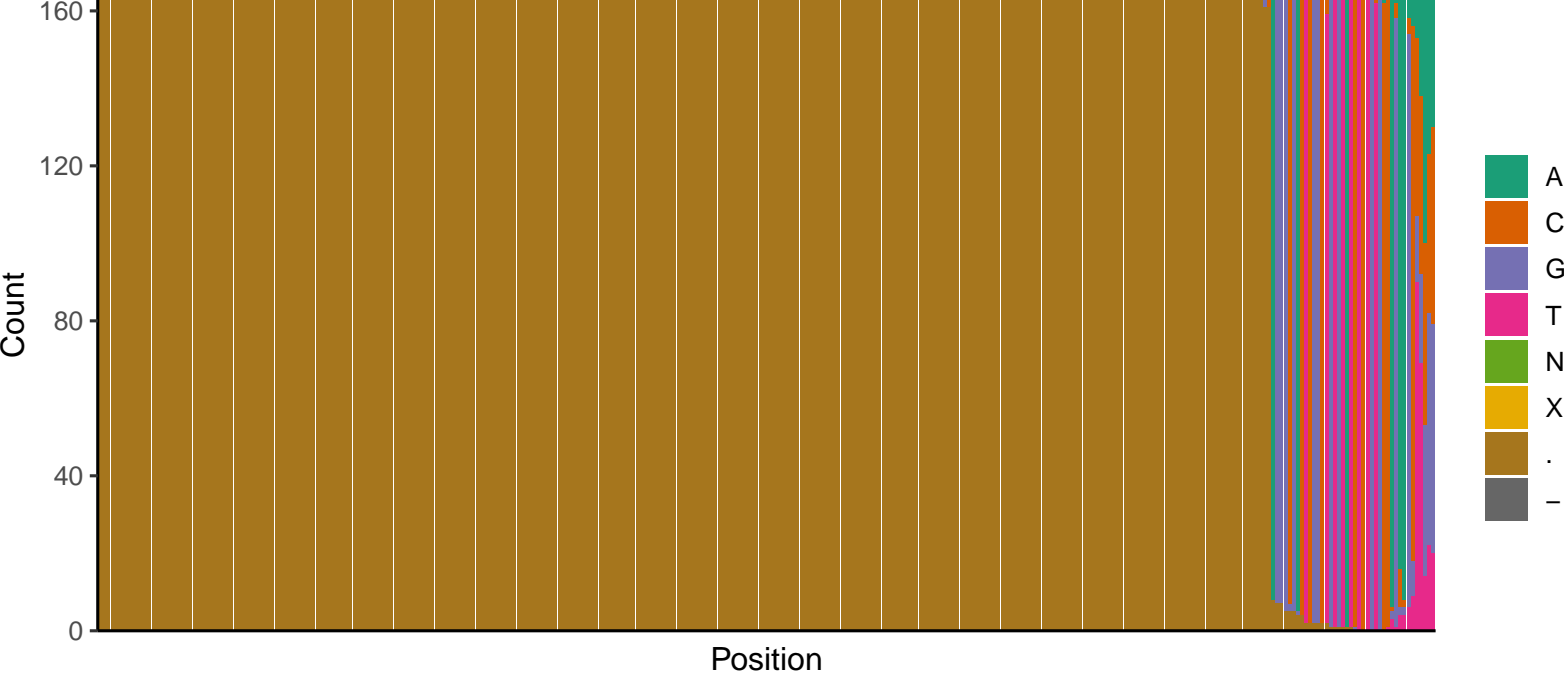
Gene TRBV7-1*ap01_G291C_T296C_G313T



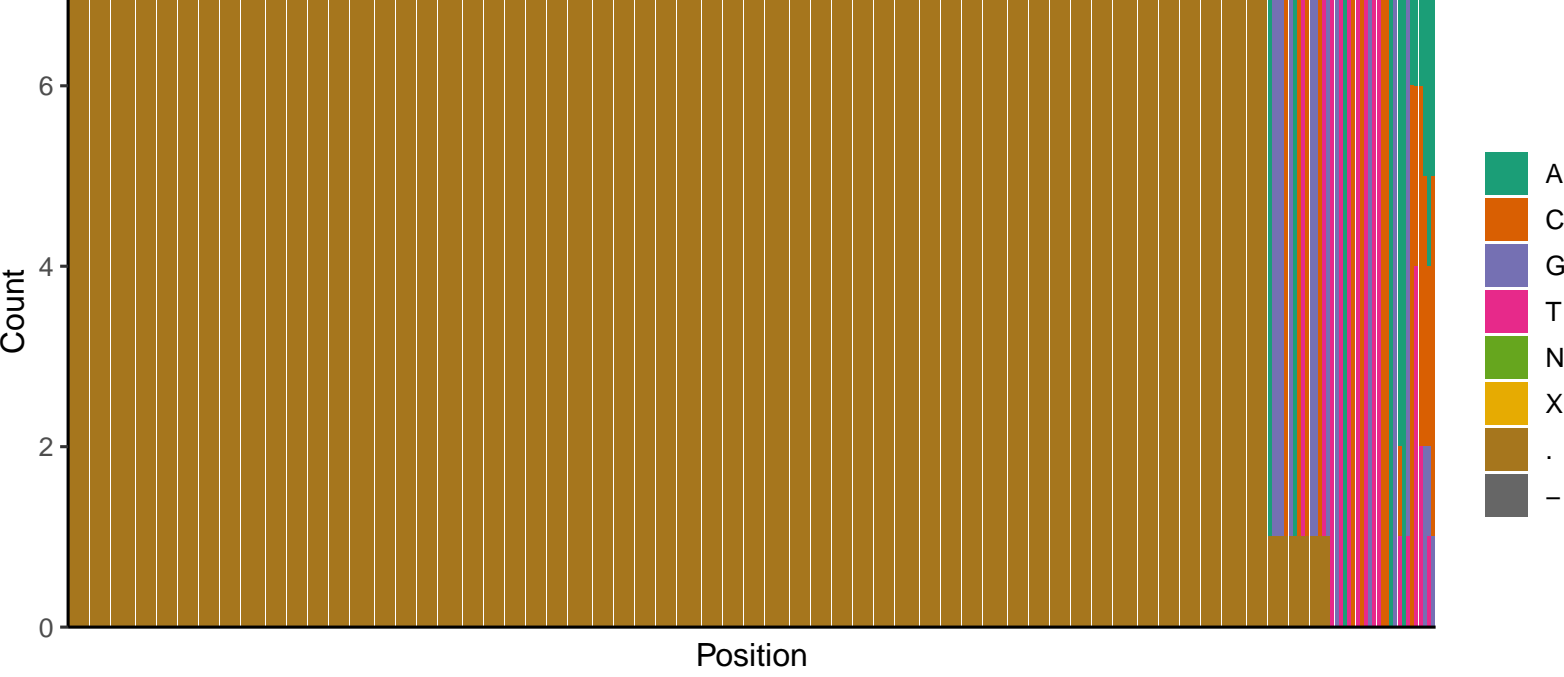
Gene TRBV23-1*ap01_T304C



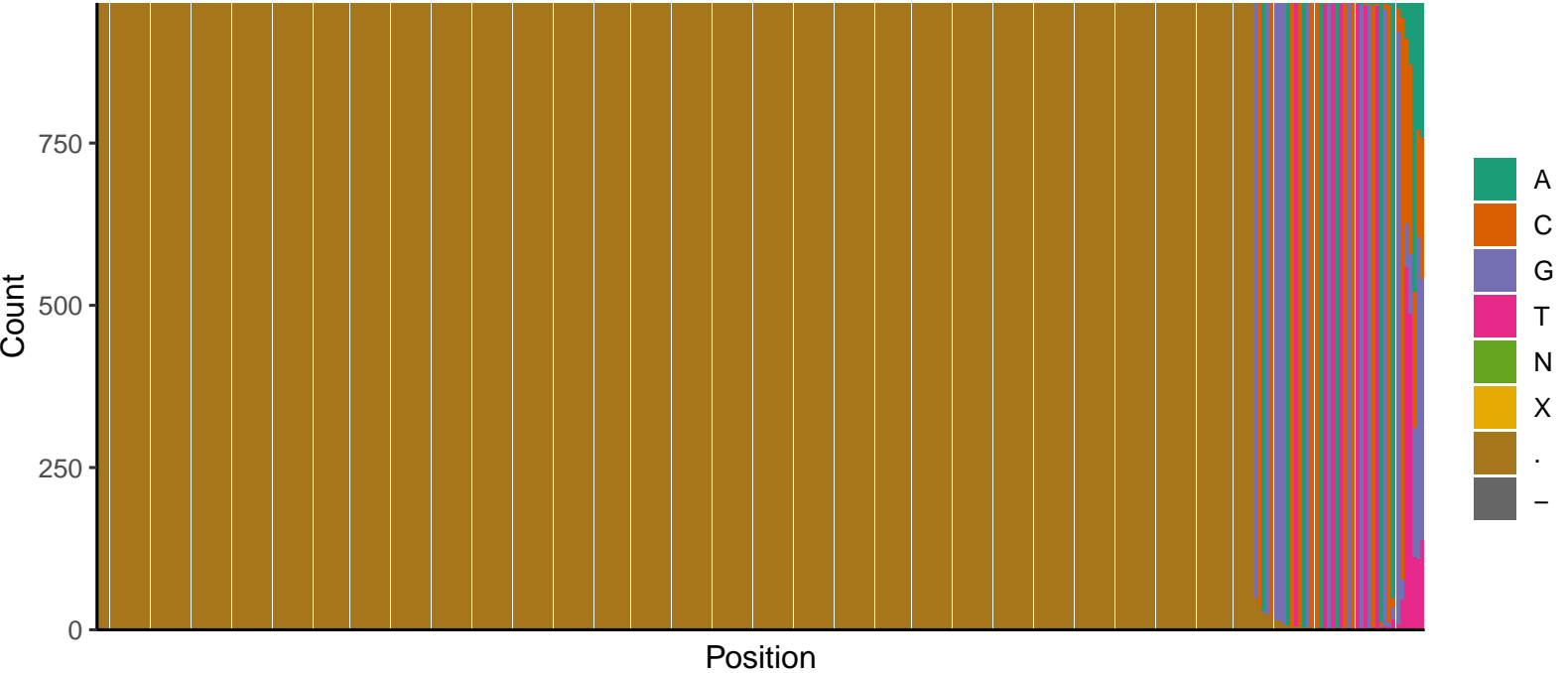
Gene TRBV7-1*ap01_G291C_T296C



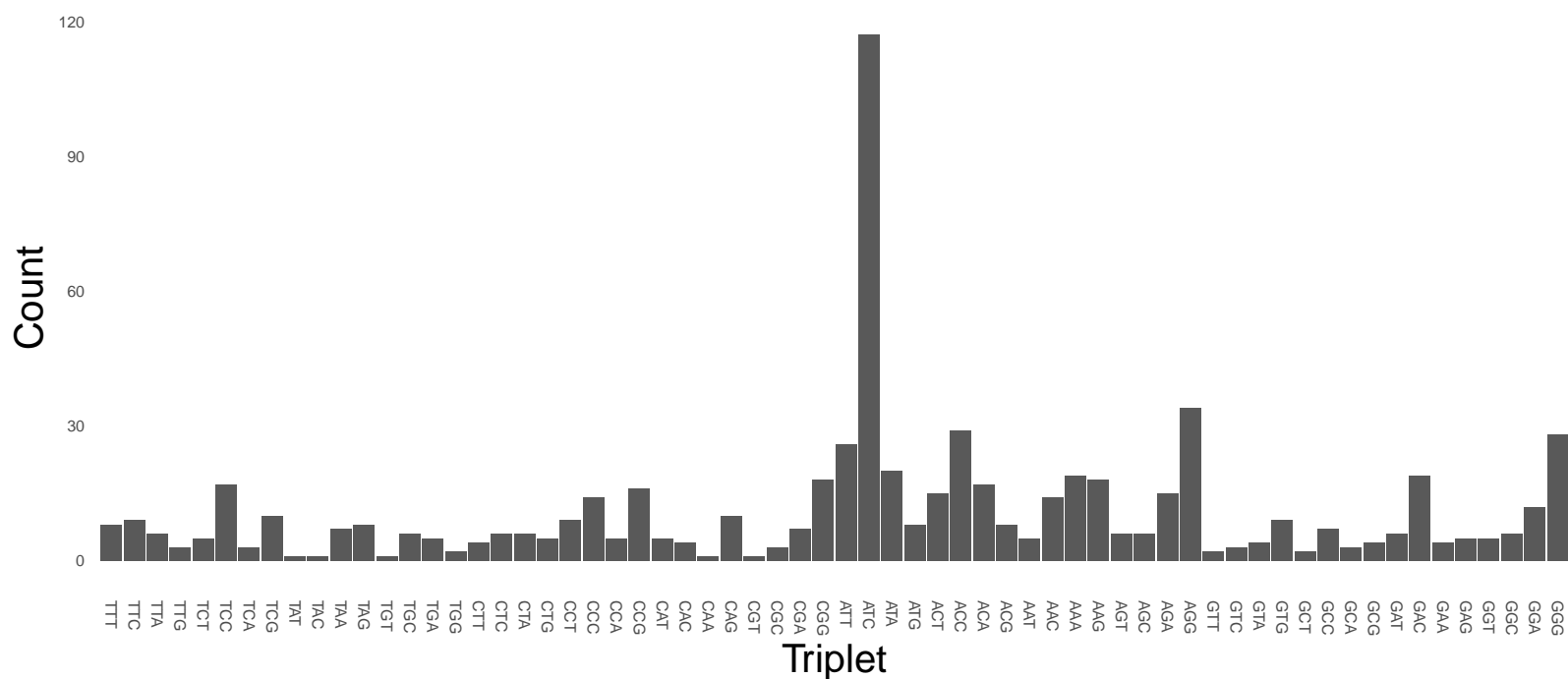
Gene TRBV7-1*ap01_G291C_T296C_G313T



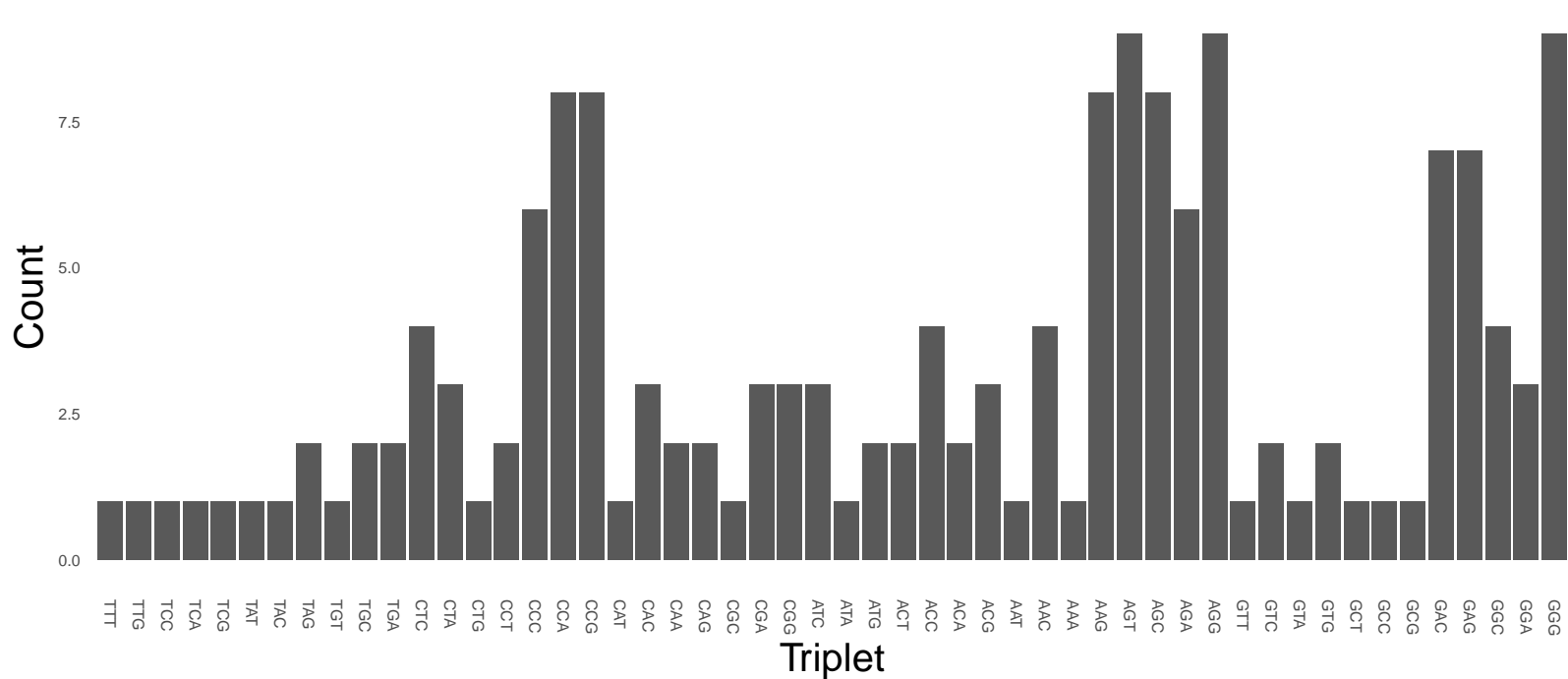
Gene TRBV7-7*ap01_C315T



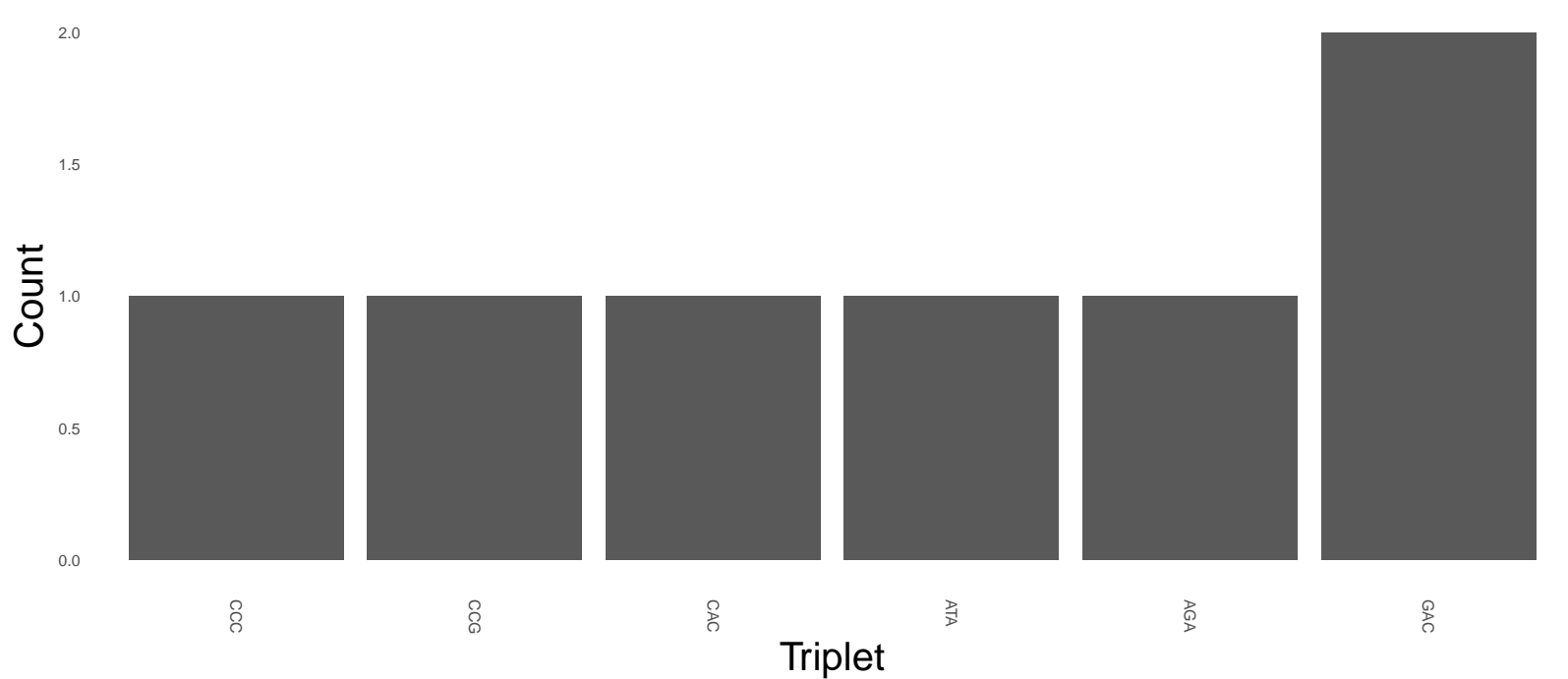
TRBV23–1*ap01_T304C– Final 3 nucleotides as a triplet



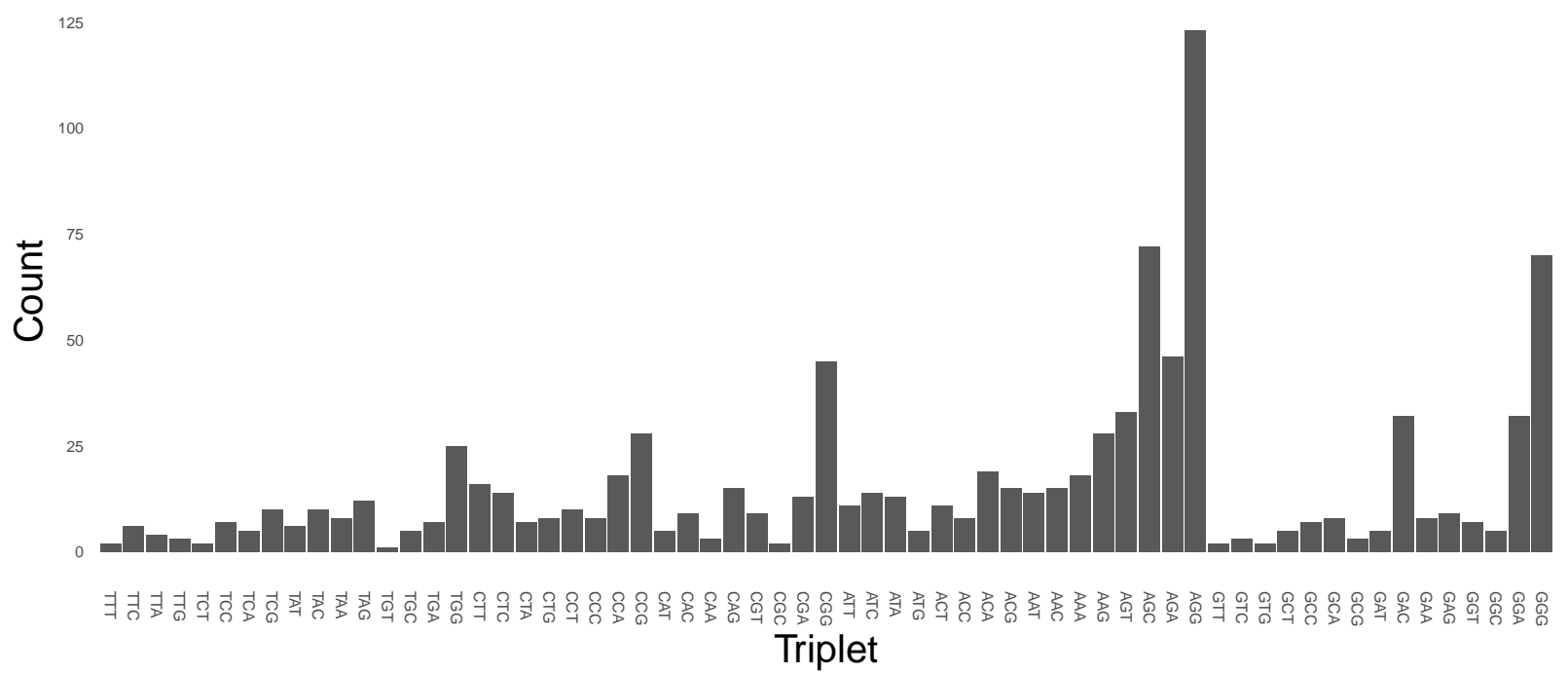
TRBV7–1*ap01_G291C_T296C– Final 3 nucleotides as a triplet



TRBV7–1*ap01_G291C_T296C_G313T– Final 3 nucleotides as a triplet

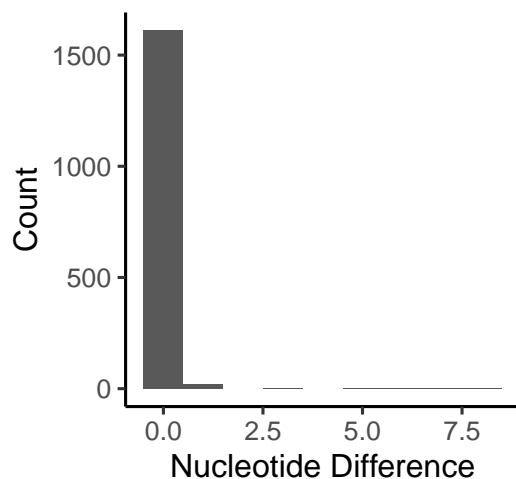


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



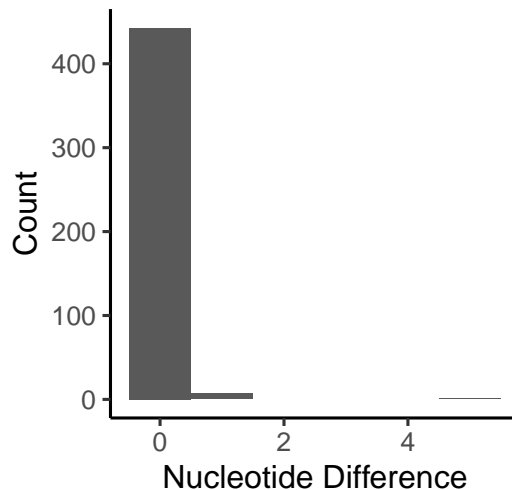
TRBV10-1*ap01

1639 sequences assigned
1611 (98.3%) exact matches, in which:
1581 unique CDR3
13 unique J



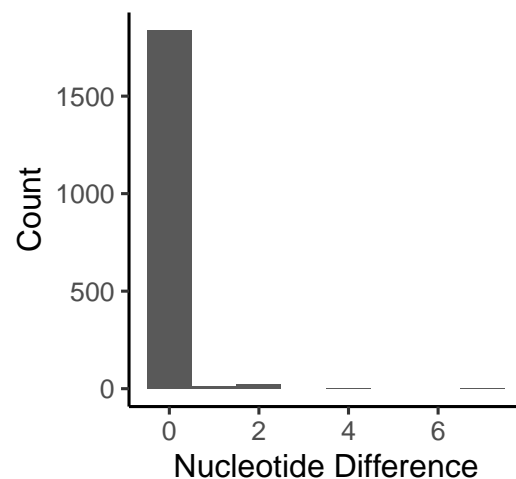
TRBV10-2*ap01

451 sequences assigned
443 (98.2%) exact matches, in which:
430 unique CDR3
13 unique J



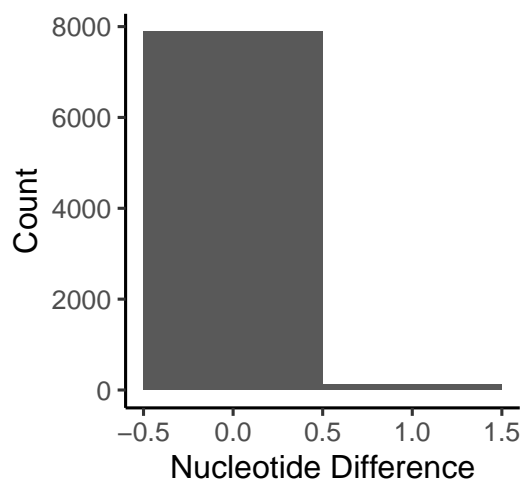
TRBV13*ap01

1873 sequences assigned
1837 (98.1%) exact matches, in which:
1786 unique CDR3
13 unique J



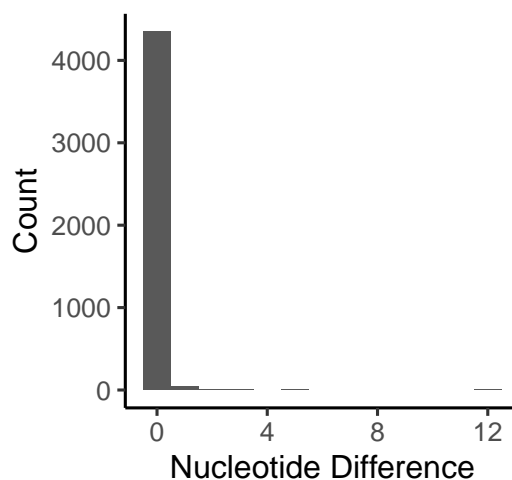
TRBV20-1*ap01

7999 sequences assigned
7887 (98.6%) exact matches, in which:
7726 unique CDR3
13 unique J



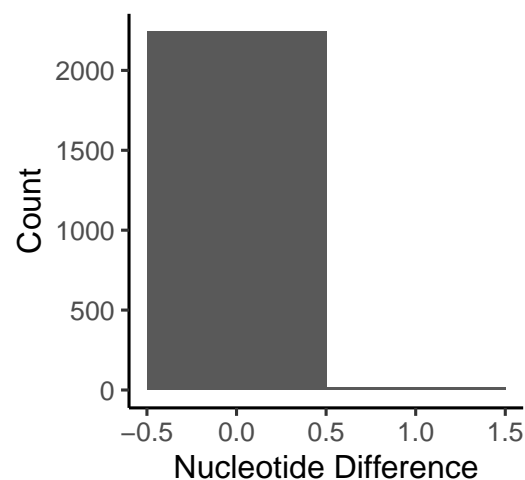
TRBV10-3*ap01

4399 sequences assigned
4348 (98.8%) exact matches, in which:
4266 unique CDR3
13 unique J



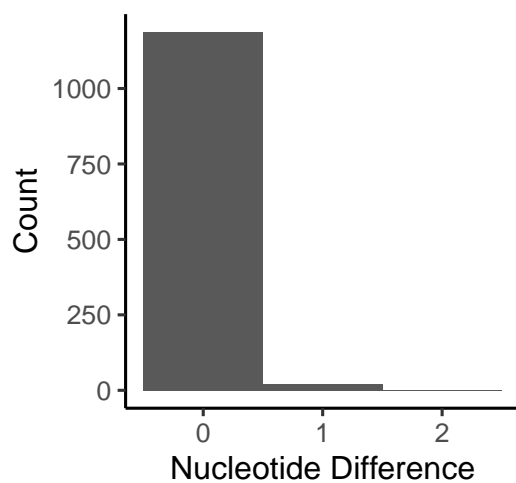
TRBV14*ap01

2258 sequences assigned
2242 (99.3%) exact matches, in which:
2205 unique CDR3
13 unique J



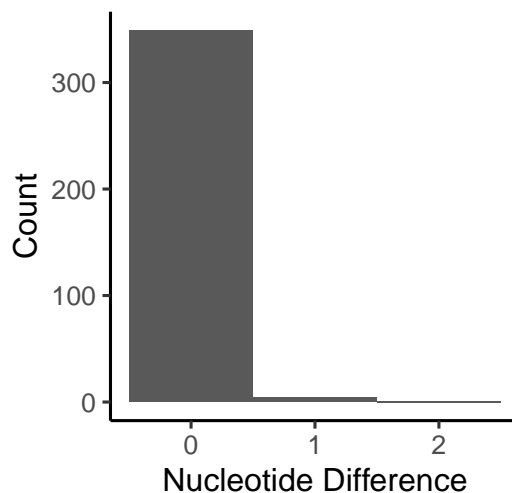
TRBV20-1*ap02

1209 sequences assigned
1187 (98.2%) exact matches, in which:
1159 unique CDR3
13 unique J



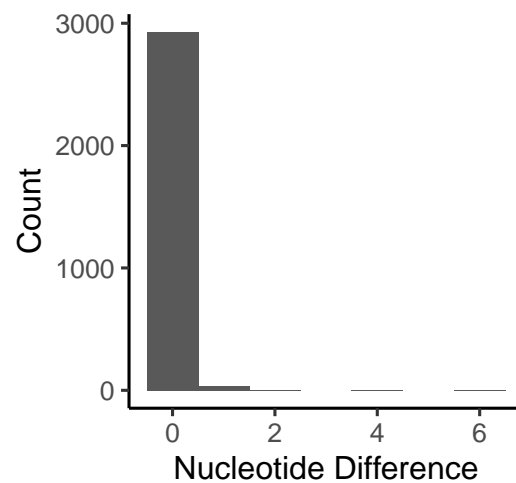
TRBV1*ap01

354 sequences assigned
349 (98.6%) exact matches, in which:
343 unique CDR3
13 unique J



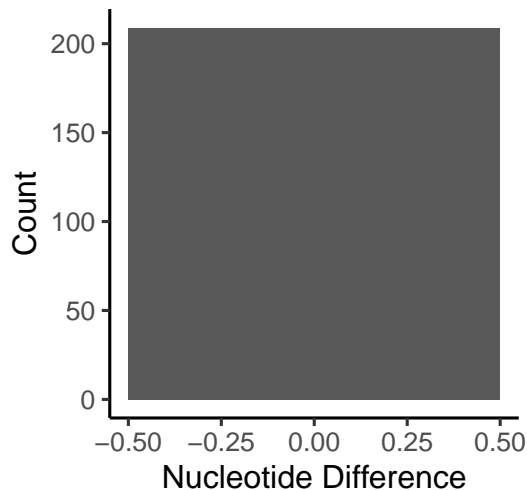
TRBV15*ap02

2964 sequences assigned
2928 (98.8%) exact matches, in which:
2856 unique CDR3
13 unique J



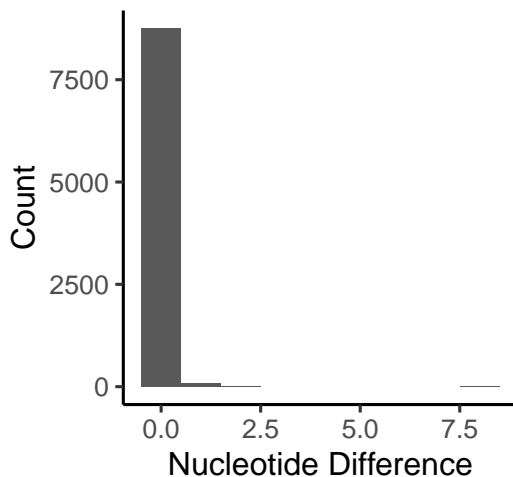
TRBV16*ap01

209 sequences assigned
209 (100%) exact matches, in which:
202 unique CDR3
12 unique J



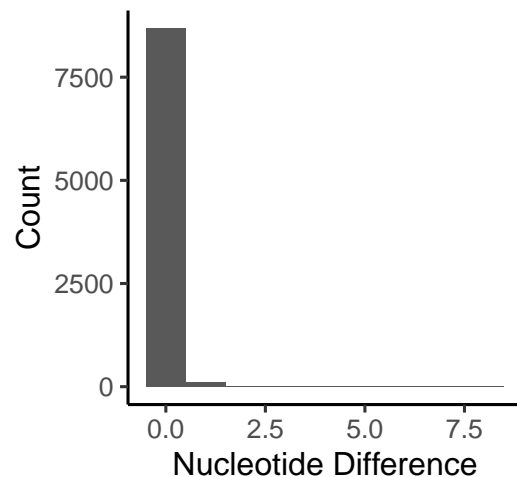
TRBV19*ap01

8852 sequences assigned
8753 (98.9%) exact matches, in which:
8622 unique CDR3
13 unique J



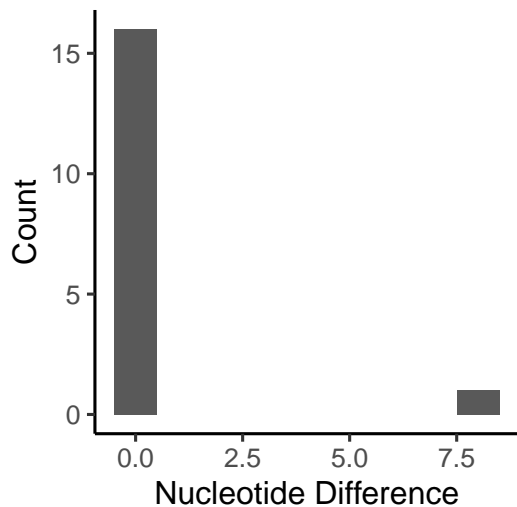
TRBV27*ap01

8810 sequences assigned
8682 (98.5%) exact matches, in which:
8469 unique CDR3
13 unique J



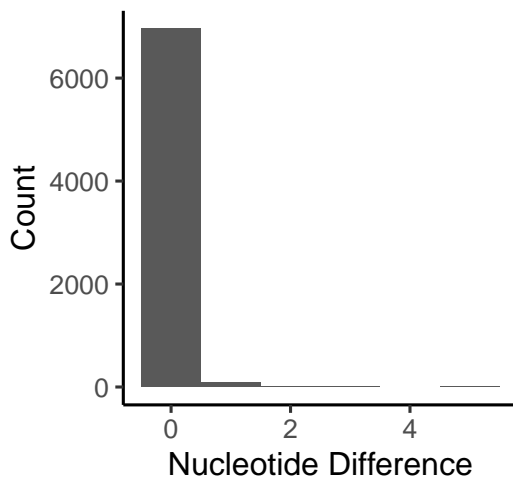
TRBV17*ap01

17 sequences assigned
16 (94.1%) exact matches, in which:
16 unique CDR3
7 unique J



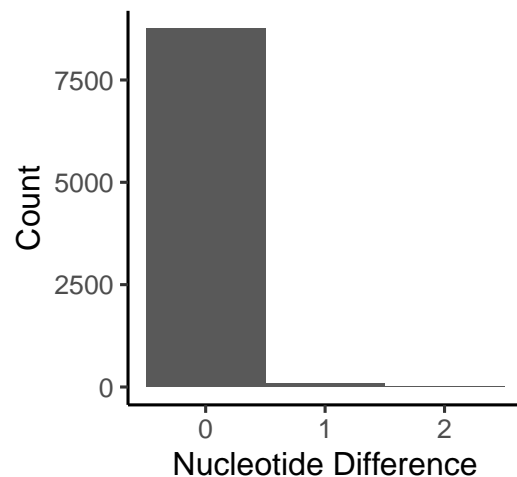
TRBV2*ap01

7044 sequences assigned
6959 (98.8%) exact matches, in which:
6834 unique CDR3
13 unique J



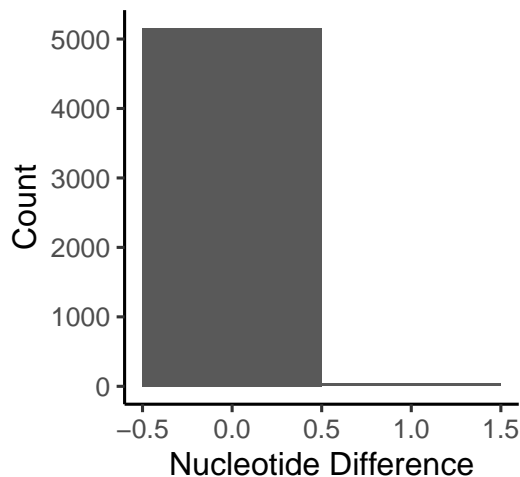
TRBV28*ap01

8843 sequences assigned
8752 (99%) exact matches, in which:
8553 unique CDR3
13 unique J



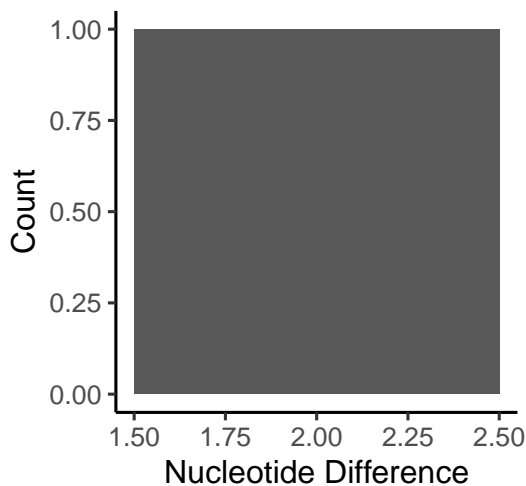
TRBV18*ap01

5197 sequences assigned
5158 (99.2%) exact matches, in which:
5090 unique CDR3
13 unique J



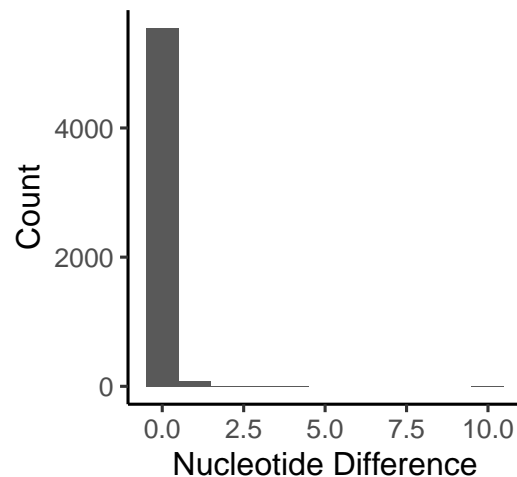
TRBV26*ap01

1 sequences assigned
No exact matches.



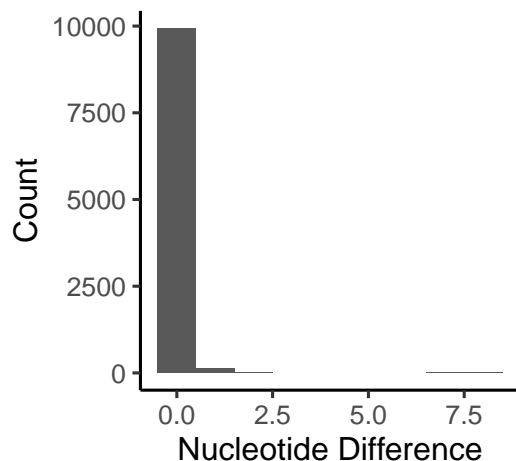
TRBV30*ap01

5638 sequences assigned
5547 (98.4%) exact matches, in which:
5463 unique CDR3
13 unique J



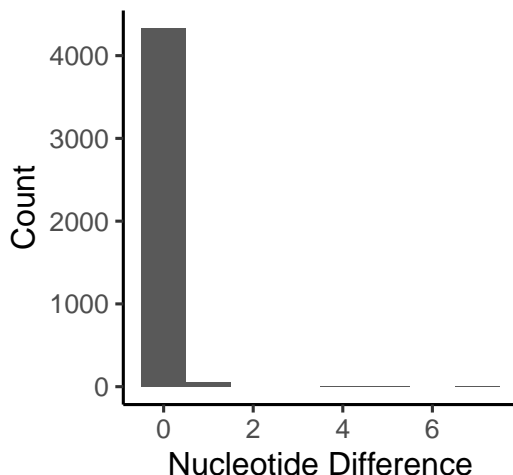
TRBV9*ap01

10065 sequences assigned
9940 (98.8%) exact matches, in which:
9726 unique CDR3
13 unique J



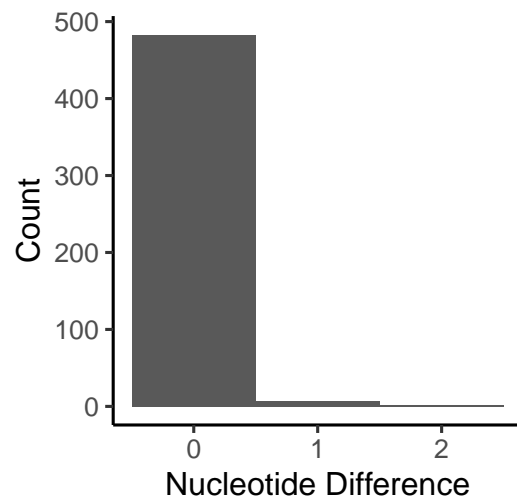
TRBV11-2*ap01

4388 sequences assigned
4329 (98.7%) exact matches, in which:
4206 unique CDR3
13 unique J



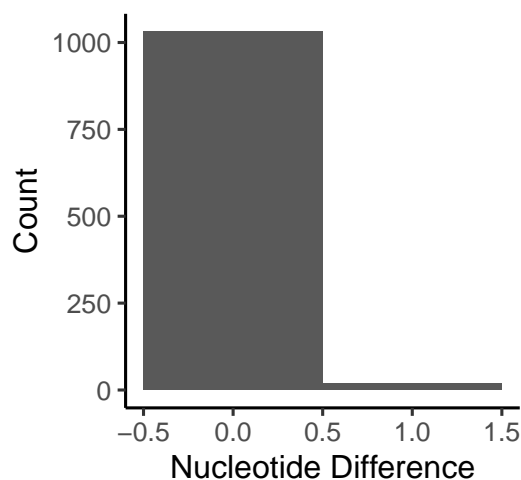
TRBV12-2*ap01

492 sequences assigned
483 (98.2%) exact matches, in which:
473 unique CDR3
13 unique J



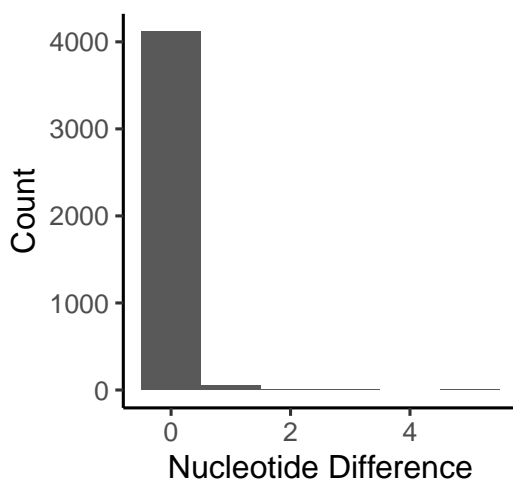
TRBV11-1*ap01

1051 sequences assigned
1031 (98.1%) exact matches, in which:
1009 unique CDR3
13 unique J



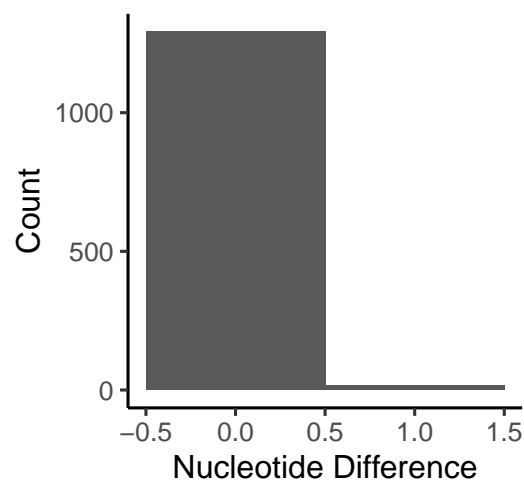
TRBV11-3*ap01

4173 sequences assigned
4116 (98.6%) exact matches, in which:
4011 unique CDR3
13 unique J



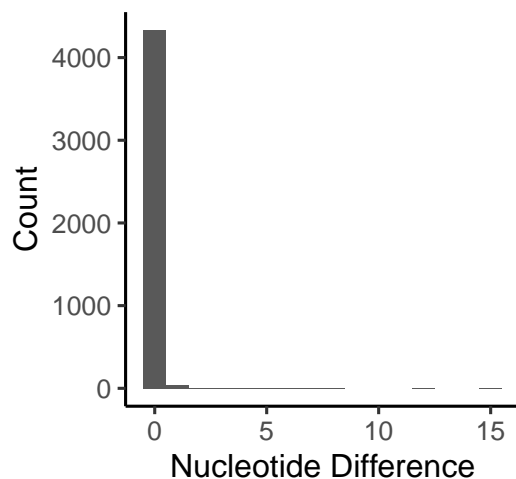
TRBV12-5*ap01

1307 sequences assigned
1292 (98.9%) exact matches, in which:
1264 unique CDR3
13 unique J



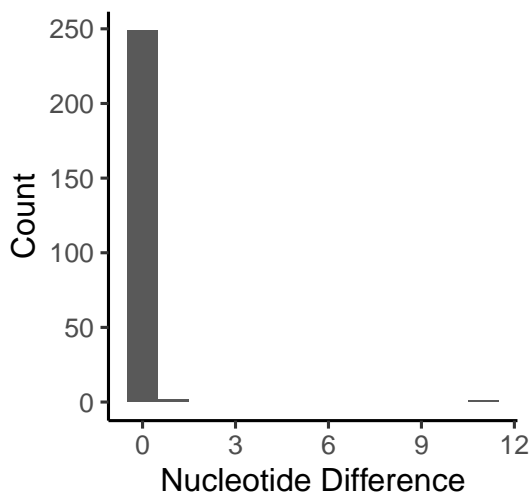
TRBV21-1*ap01

4397 sequences assigned
4333 (98.5%) exact matches, in which:
4260 unique CDR3
13 unique J



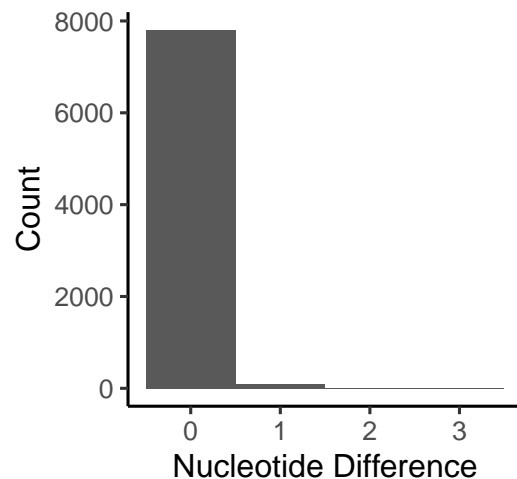
TRBV12-1*ap01

252 sequences assigned
249 (98.8%) exact matches, in which:
240 unique CDR3
13 unique J



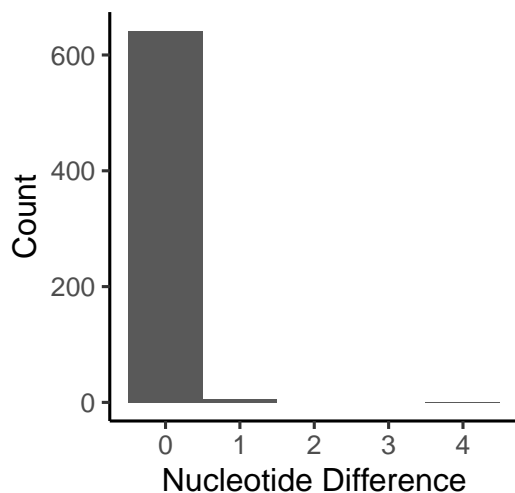
TRBV12-34*ap01

7908 sequences assigned
7802 (98.7%) exact matches, in which:
7626 unique CDR3
13 unique J



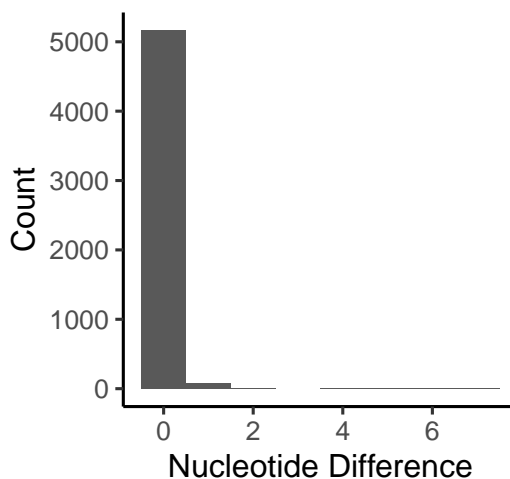
TRBV23–1*ap01

649 sequences assigned
642 (98.9%) exact matches, in which:
626 unique CDR3
13 unique J



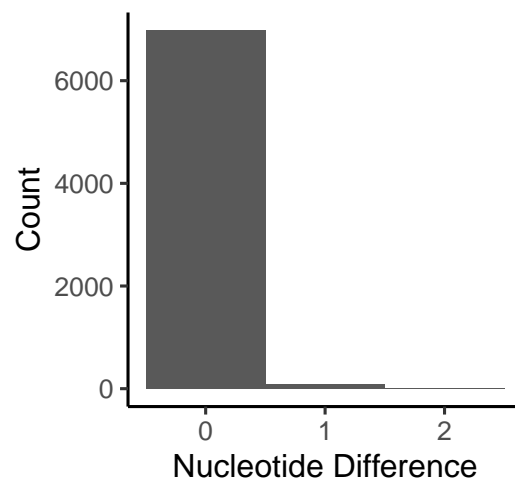
TRBV24–1*ap01

5250 sequences assigned
5164 (98.4%) exact matches, in which:
5071 unique CDR3
13 unique J



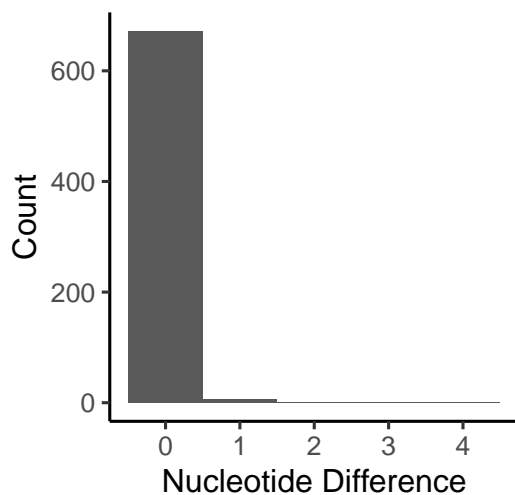
TRBV4–3*ap01

7075 sequences assigned
6979 (98.6%) exact matches, in which:
6825 unique CDR3
13 unique J



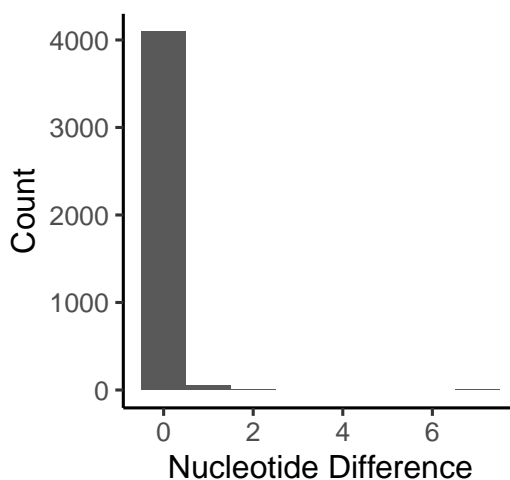
TRBV23–1*ap01_T304C

682 sequences assigned
672 (98.5%) exact matches, in which:
656 unique CDR3
13 unique J



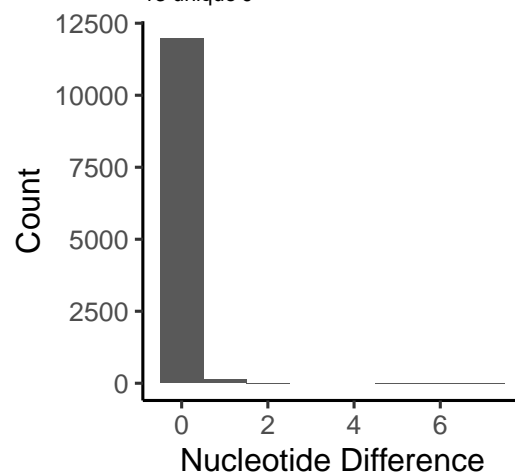
TRBV4–1*ap01

4142 sequences assigned
4094 (98.8%) exact matches, in which:
4019 unique CDR3
13 unique J



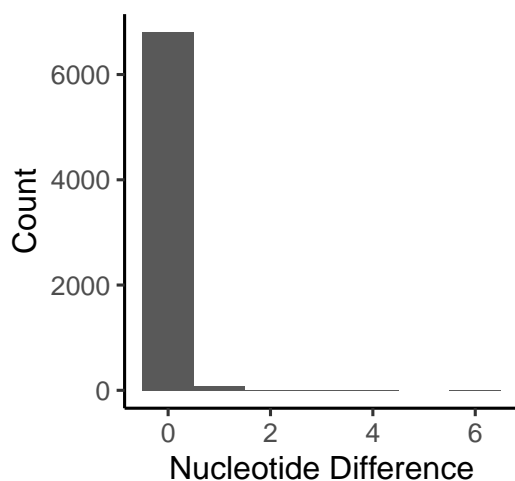
TRBV5–1*ap01

12112 sequences assigned
11971 (98.8%) exact matches, in which:
11684 unique CDR3
13 unique J



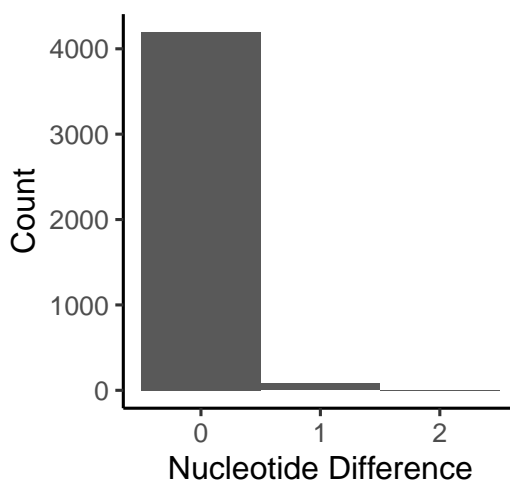
TRBV3–12*ap01

6901 sequences assigned
6807 (98.6%) exact matches, in which:
6678 unique CDR3
13 unique J



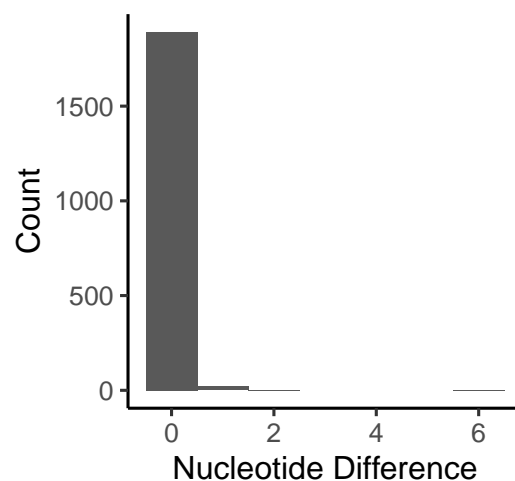
TRBV4–2*ap01

4276 sequences assigned
4196 (98.1%) exact matches, in which:
4120 unique CDR3
13 unique J



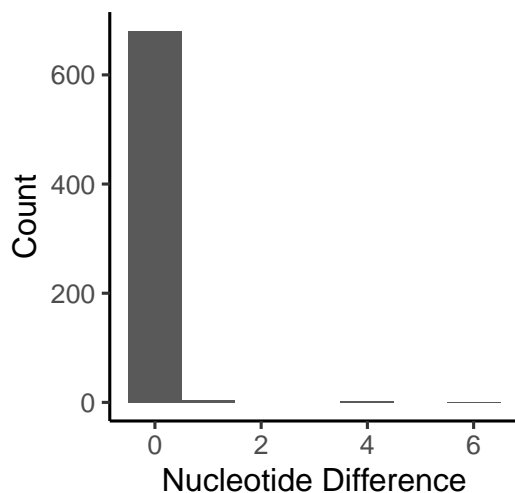
TRBV25–1*ap01

1913 sequences assigned
1891 (98.8%) exact matches, in which:
1863 unique CDR3
13 unique J



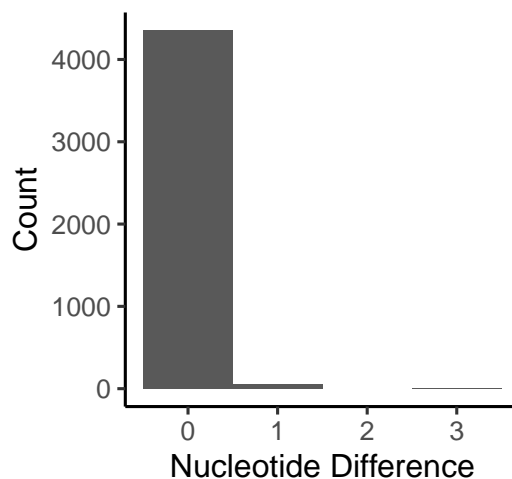
TRBV5-3*ap01

688 sequences assigned
681 (99%) exact matches, in which:
664 unique CDR3
13 unique J



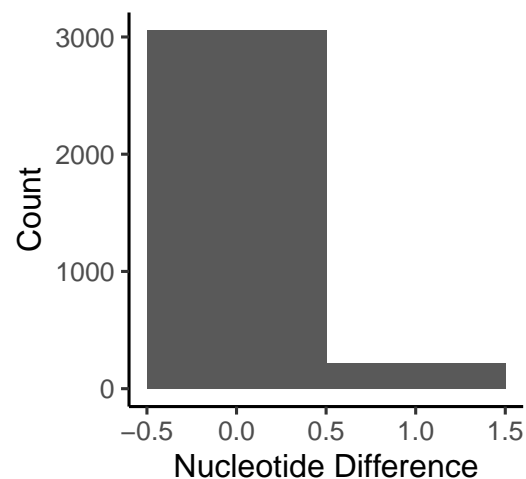
TRBV5-6*ap01

4412 sequences assigned
4353 (98.7%) exact matches, in which:
4247 unique CDR3
13 unique J



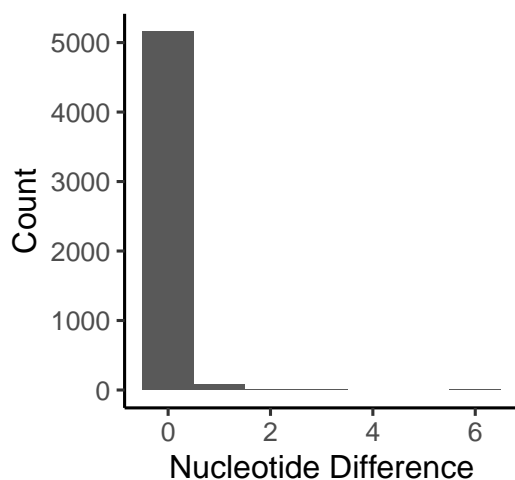
TRBV6-1*ap01

3275 sequences assigned
3056 (93.3%) exact matches, in which:
2988 unique CDR3
13 unique J



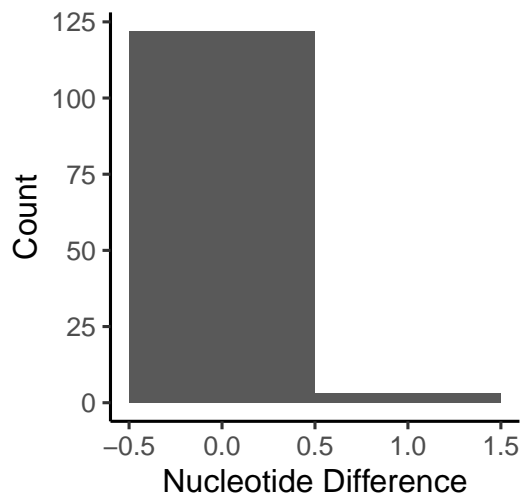
TRBV5-4*ap01

5231 sequences assigned
5156 (98.6%) exact matches, in which:
5037 unique CDR3
13 unique J



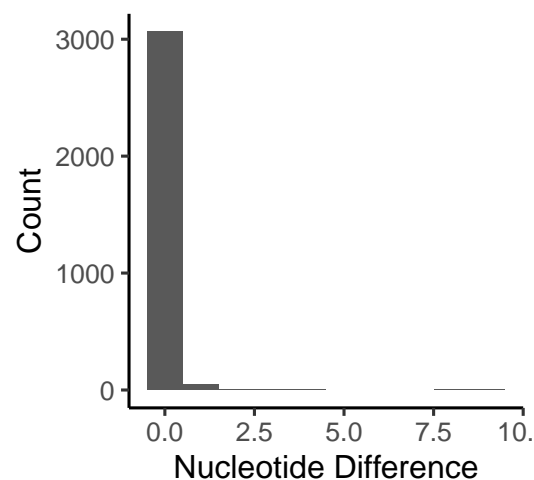
TRBV5-7*ap01

125 sequences assigned
122 (97.6%) exact matches, in which:
120 unique CDR3
13 unique J



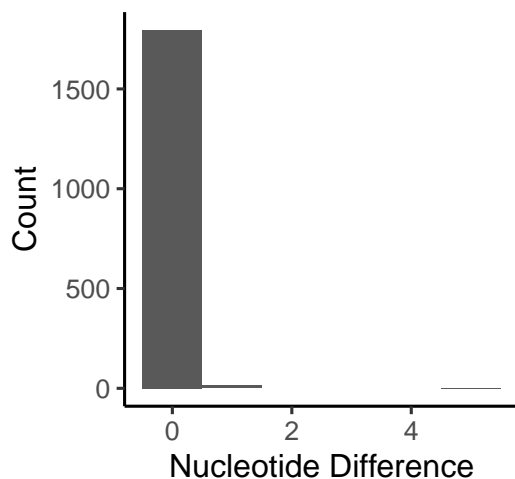
TRBV6-4*ap01

3118 sequences assigned
3064 (98.3%) exact matches, in which:
3012 unique CDR3
13 unique J



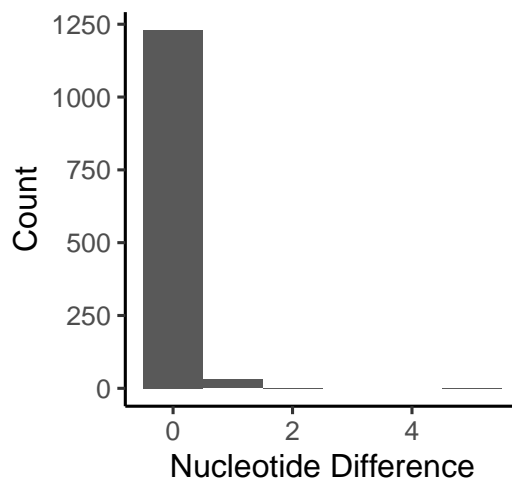
TRBV5-5*ap01

1810 sequences assigned
1795 (99.2%) exact matches, in which:
1774 unique CDR3
13 unique J



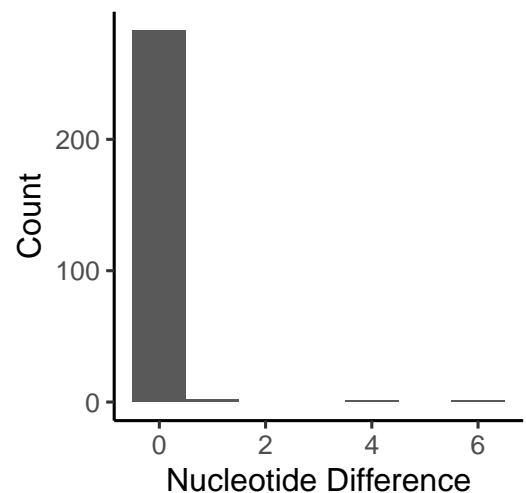
TRBV5-8*ap01

1263 sequences assigned
1230 (97.4%) exact matches, in which:
1201 unique CDR3
13 unique J



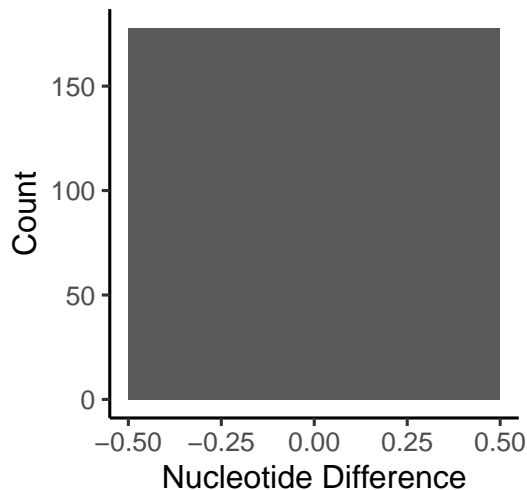
TRBV6-7*ap01

287 sequences assigned
283 (98.6%) exact matches, in which:
277 unique CDR3
13 unique J



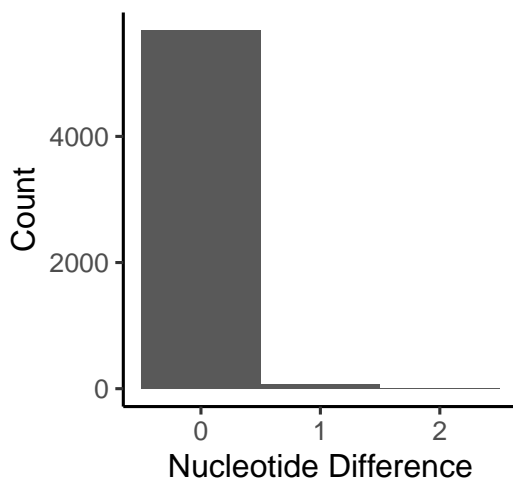
TRBV6-8*ap01

178 sequences assigned
178 (100%) exact matches, in which:
174 unique CDR3
13 unique J



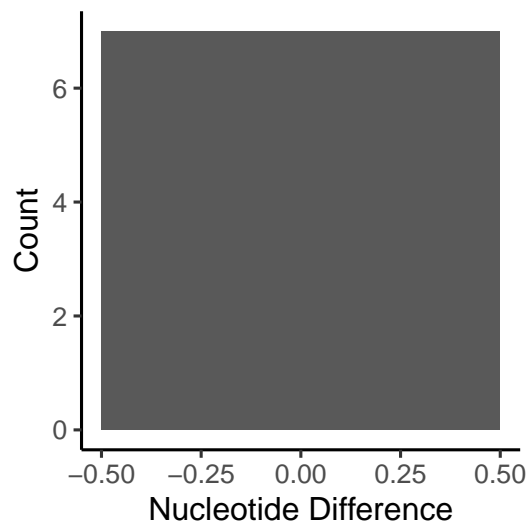
TRBV6-56*ap01

5747 sequences assigned
5681 (98.9%) exact matches, in which:
5553 unique CDR3
13 unique J



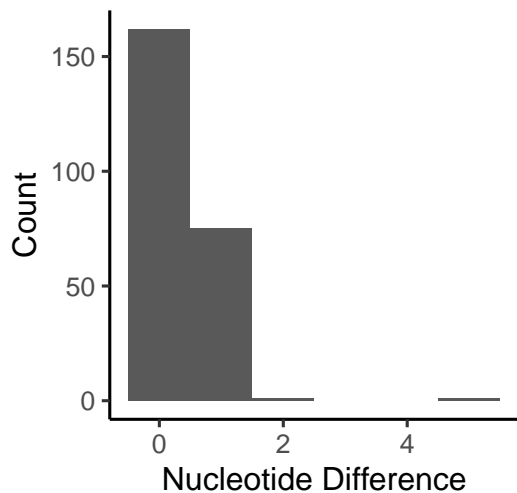
TRBV7-1*ap01_G291C_T2

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
4 unique J



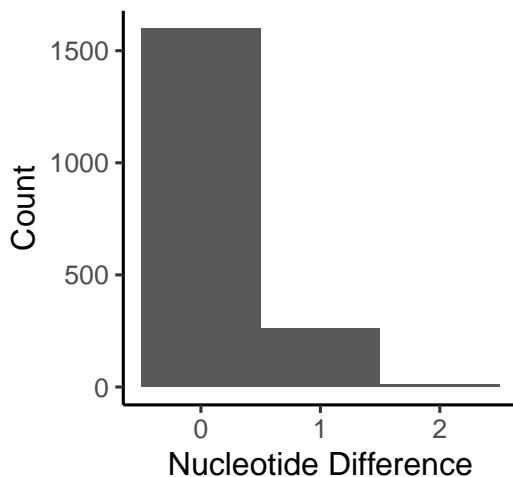
TRBV6-9*ap01

239 sequences assigned
162 (67.8%) exact matches, in which:
157 unique CDR3
13 unique J



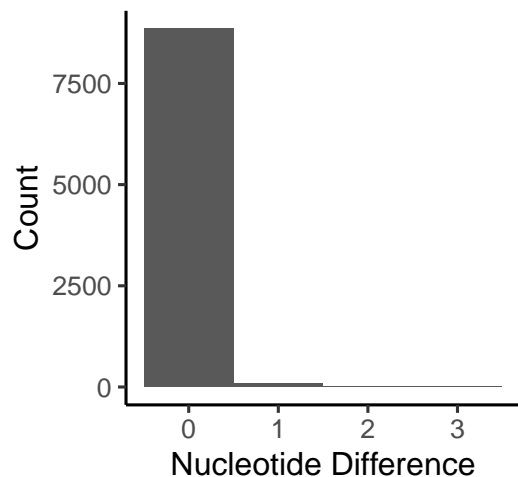
TRBV6-56*ap02

1867 sequences assigned
1598 (85.6%) exact matches, in which:
1553 unique CDR3
13 unique J



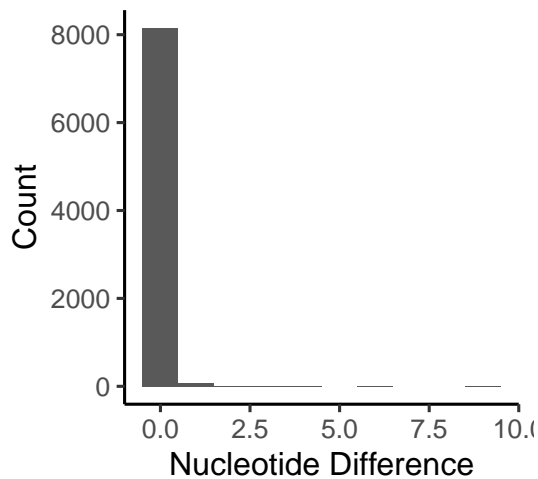
TRBV7-2*ap01

8941 sequences assigned
8852 (99%) exact matches, in which:
8662 unique CDR3
13 unique J



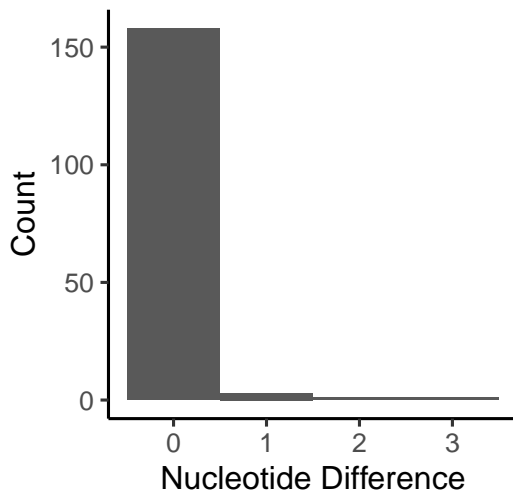
TRBV6-23*ap01

8232 sequences assigned
8151 (99%) exact matches, in which:
7995 unique CDR3
13 unique J



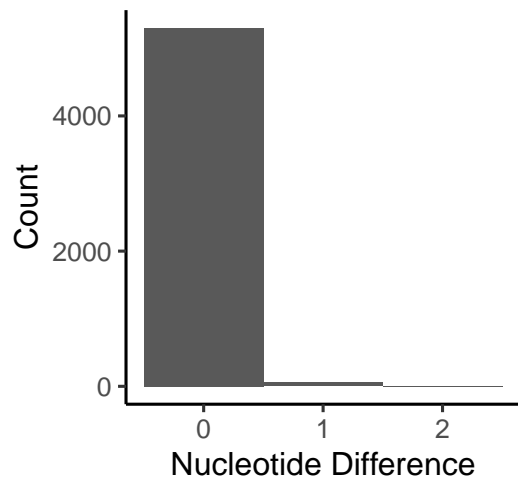
TRBV7-1*ap01_G291C_

163 sequences assigned
158 (96.9%) exact matches, in which:
151 unique CDR3
13 unique J



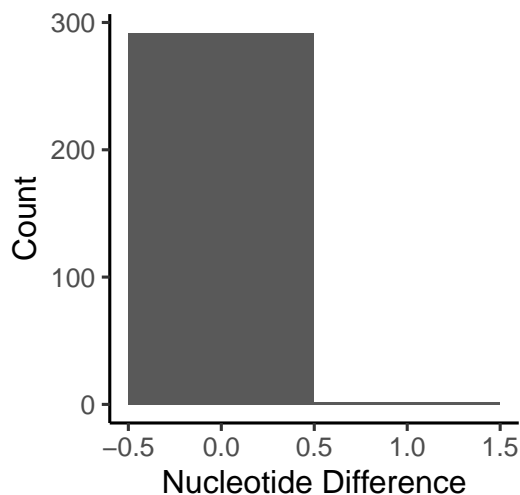
TRBV7-3*ap01

5362 sequences assigned
5300 (98.8%) exact matches, in which:
5212 unique CDR3
13 unique J



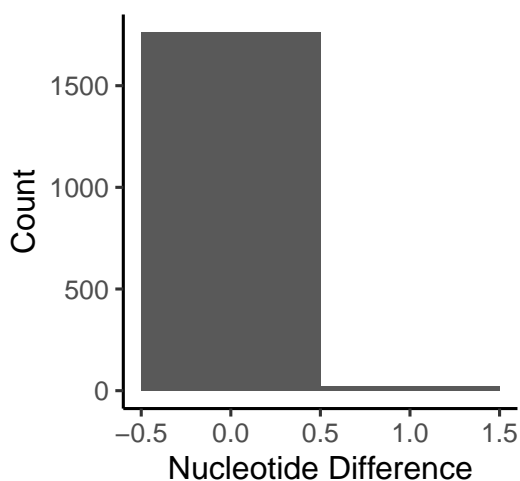
TRBV7-4*ap01

294 sequences assigned
292 (99.3%) exact matches, in which:
285 unique CDR3
13 unique J



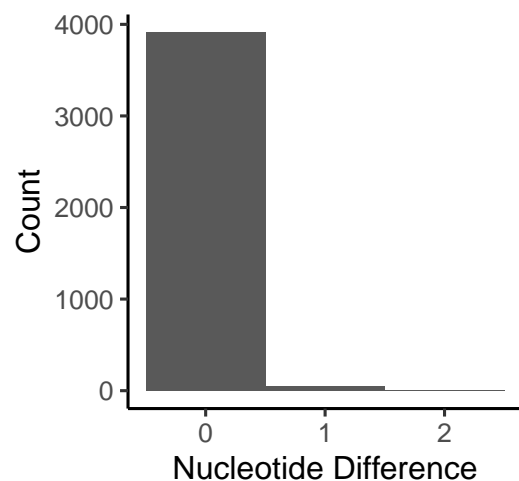
TRBV7-8*ap01

1782 sequences assigned
1762 (98.9%) exact matches, in which:
1719 unique CDR3
13 unique J



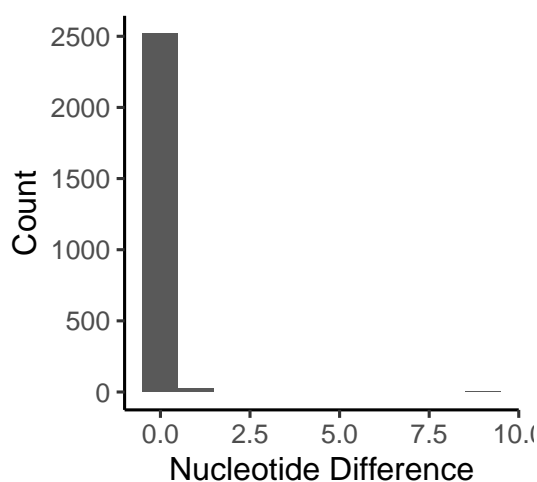
TRBV29-1*ap01

3960 sequences assigned
3912 (98.8%) exact matches, in which:
3838 unique CDR3
13 unique J



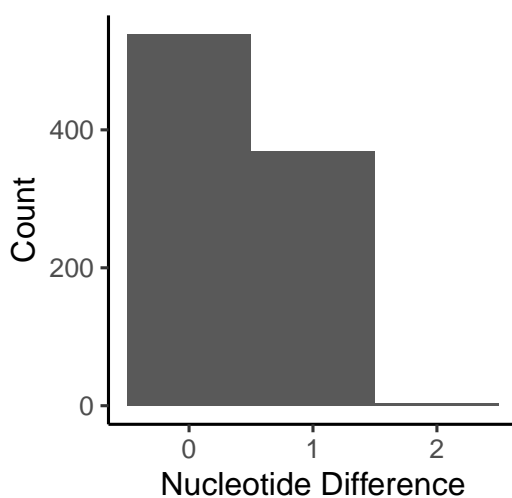
TRBV7-6*ap01

2546 sequences assigned
2518 (98.9%) exact matches, in which:
2453 unique CDR3
13 unique J



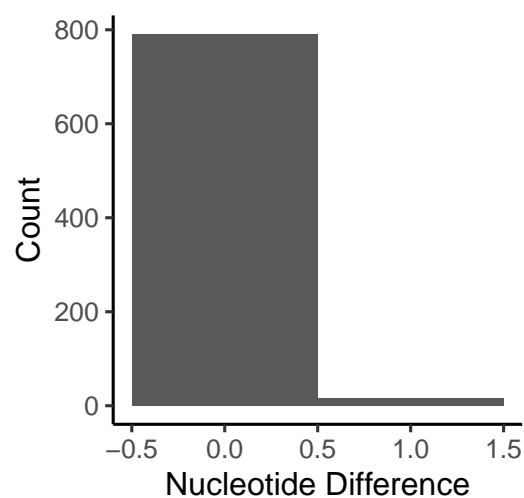
TRBV7-8*ap03

912 sequences assigned
539 (59.1%) exact matches, in which:
528 unique CDR3
13 unique J



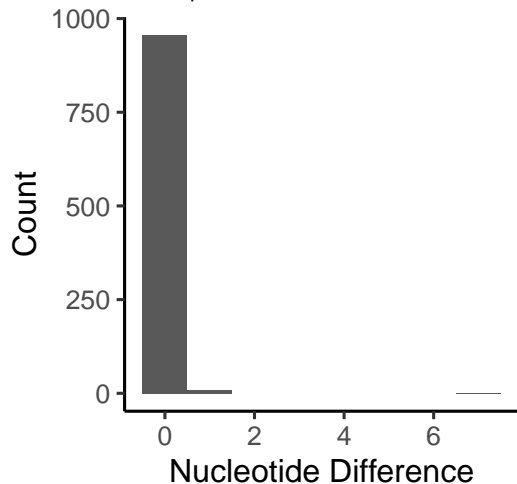
TRBV29-1*ap02

806 sequences assigned
791 (98.1%) exact matches, in which:
781 unique CDR3
13 unique J



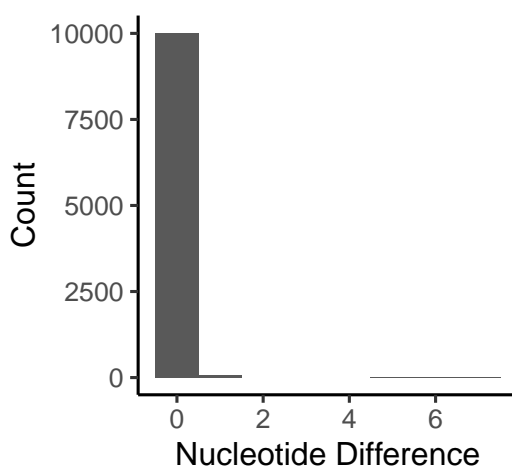
TRBV7-7*ap01_C315T

966 sequences assigned
956 (99%) exact matches, in which:
936 unique CDR3
13 unique J

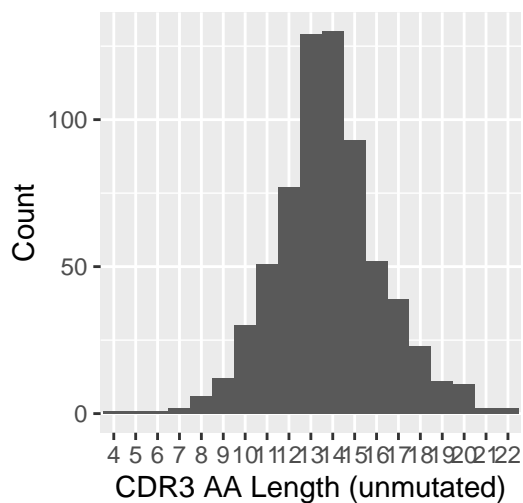


TRBV7-9*ap01

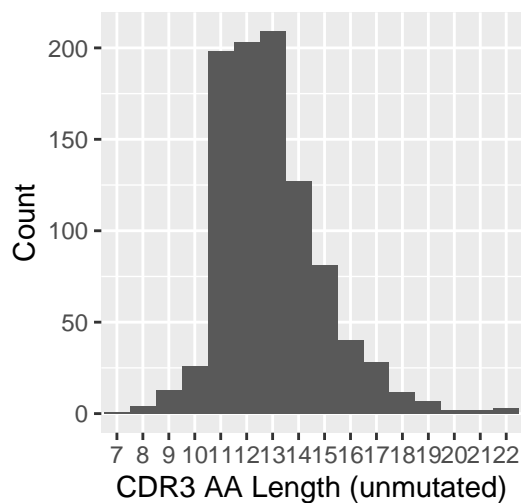
10093 sequences assigned
10017 (99.2%) exact matches, in which:
9872 unique CDR3
13 unique J



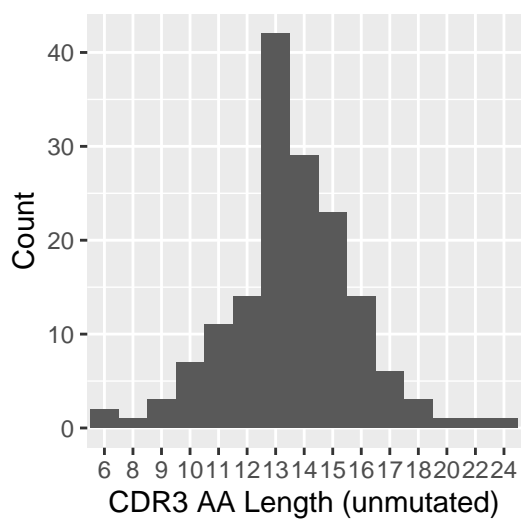
TRBV23-1*ap01_T304C



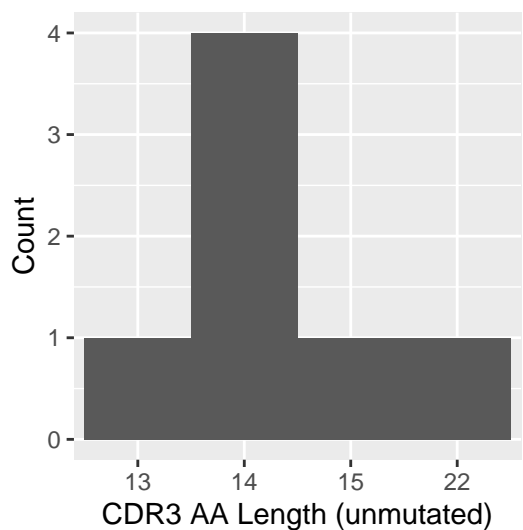
TRBV7-7*ap01_C315T

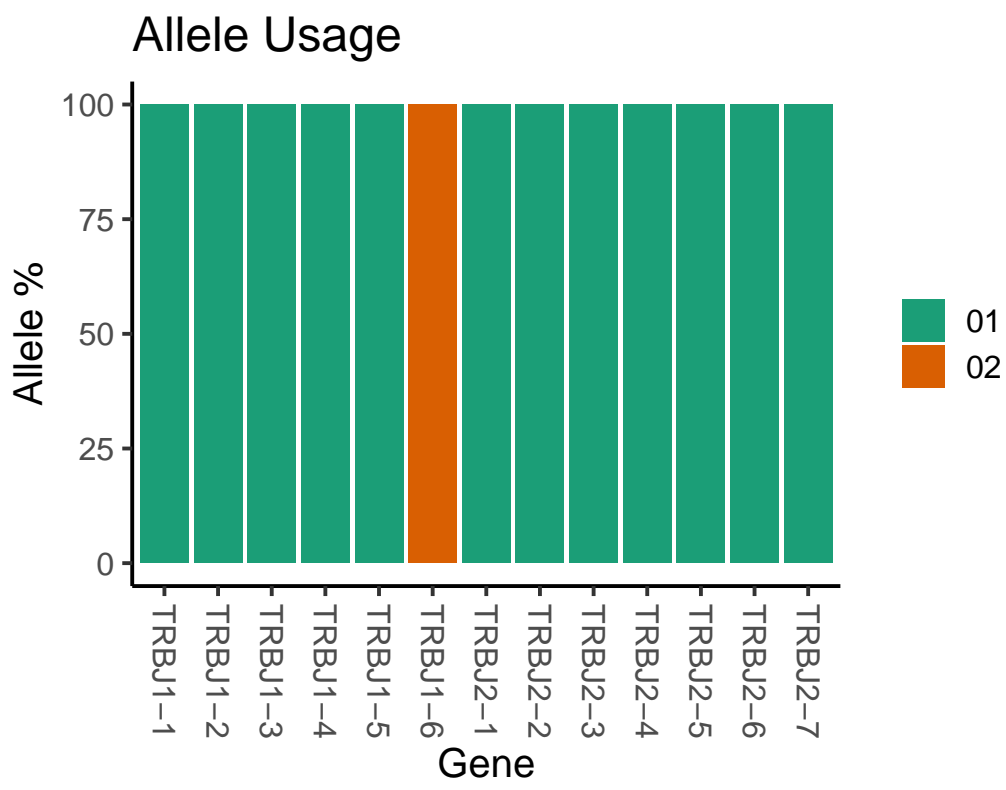


TRBV7-1*ap01_G291C_T296C



TRBV7-1*ap01_G291C_T296C_G313T





[illegible]