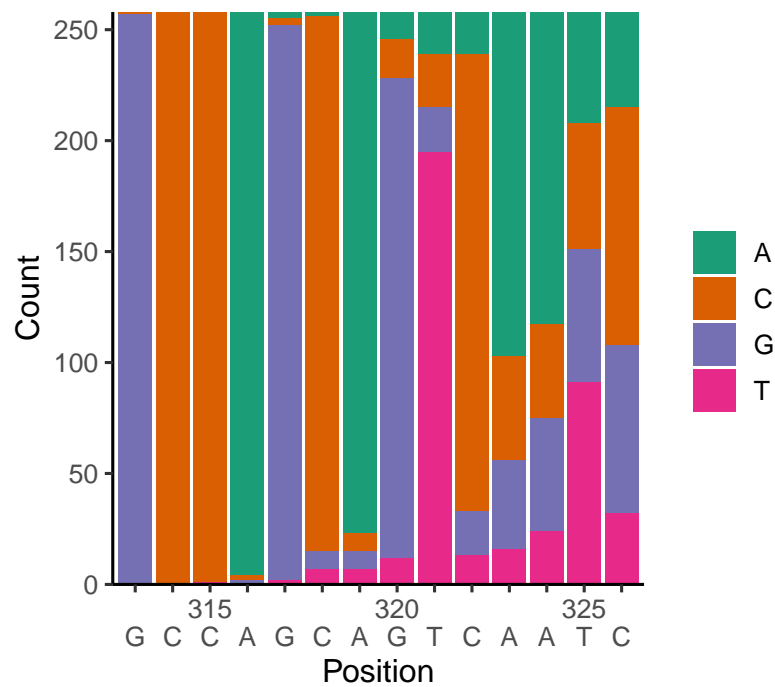
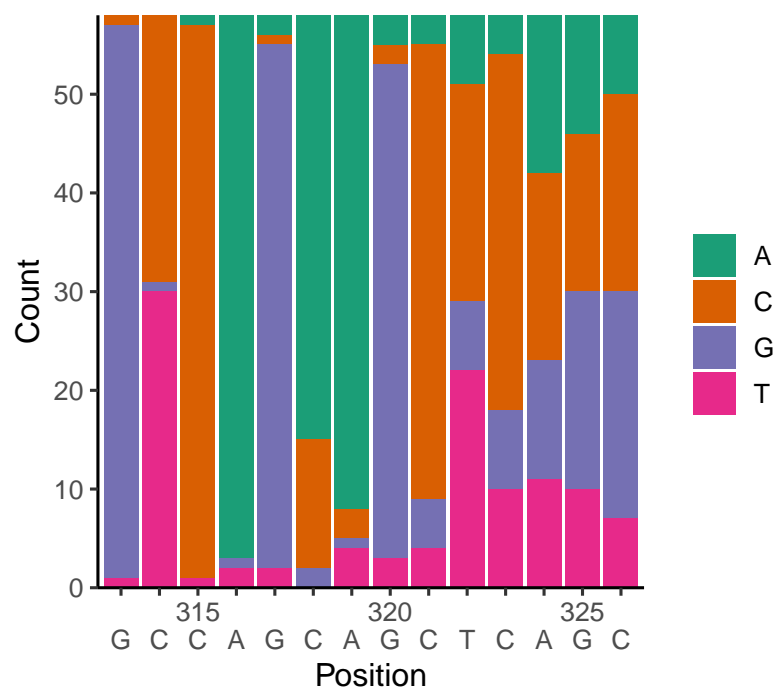


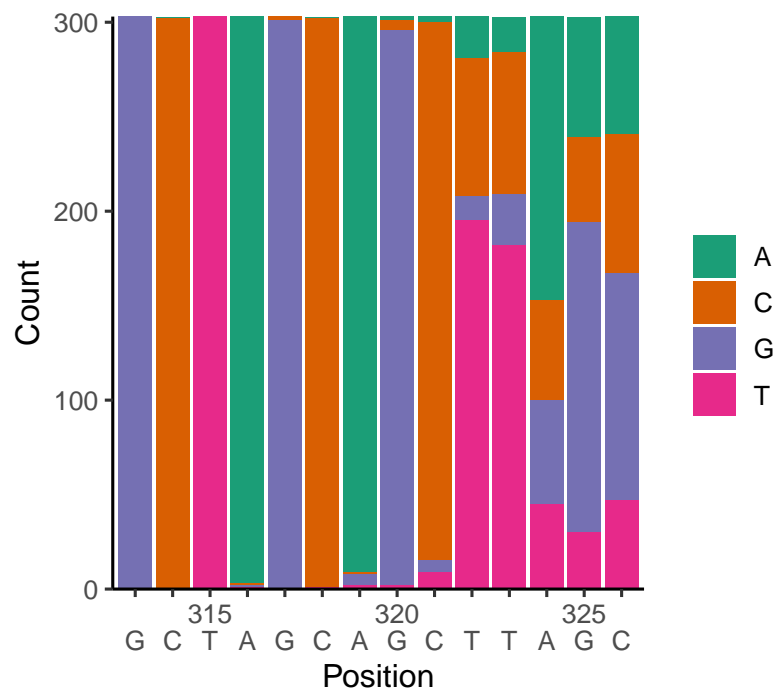
Gene TRBV23-1*ap01_T304C



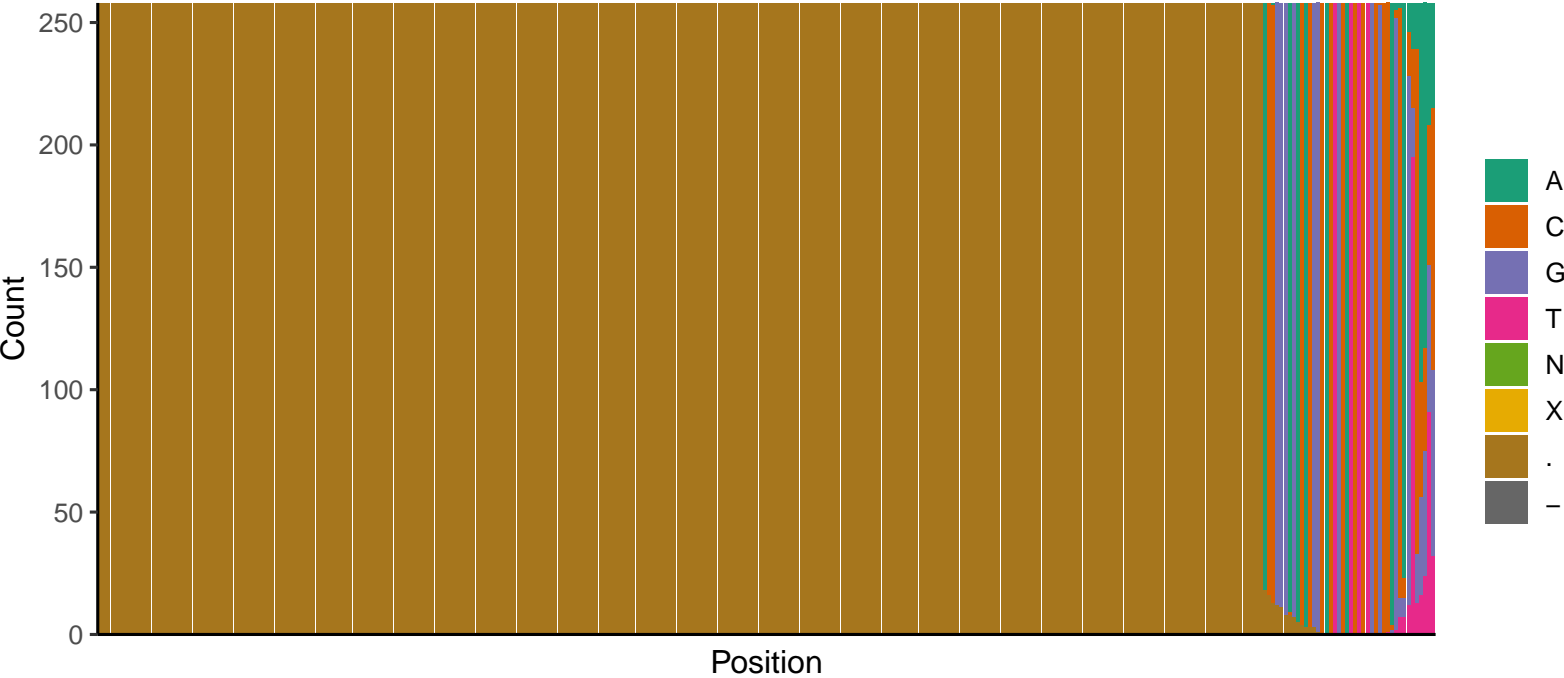
Gene TRBV7-1*ap01_T296C



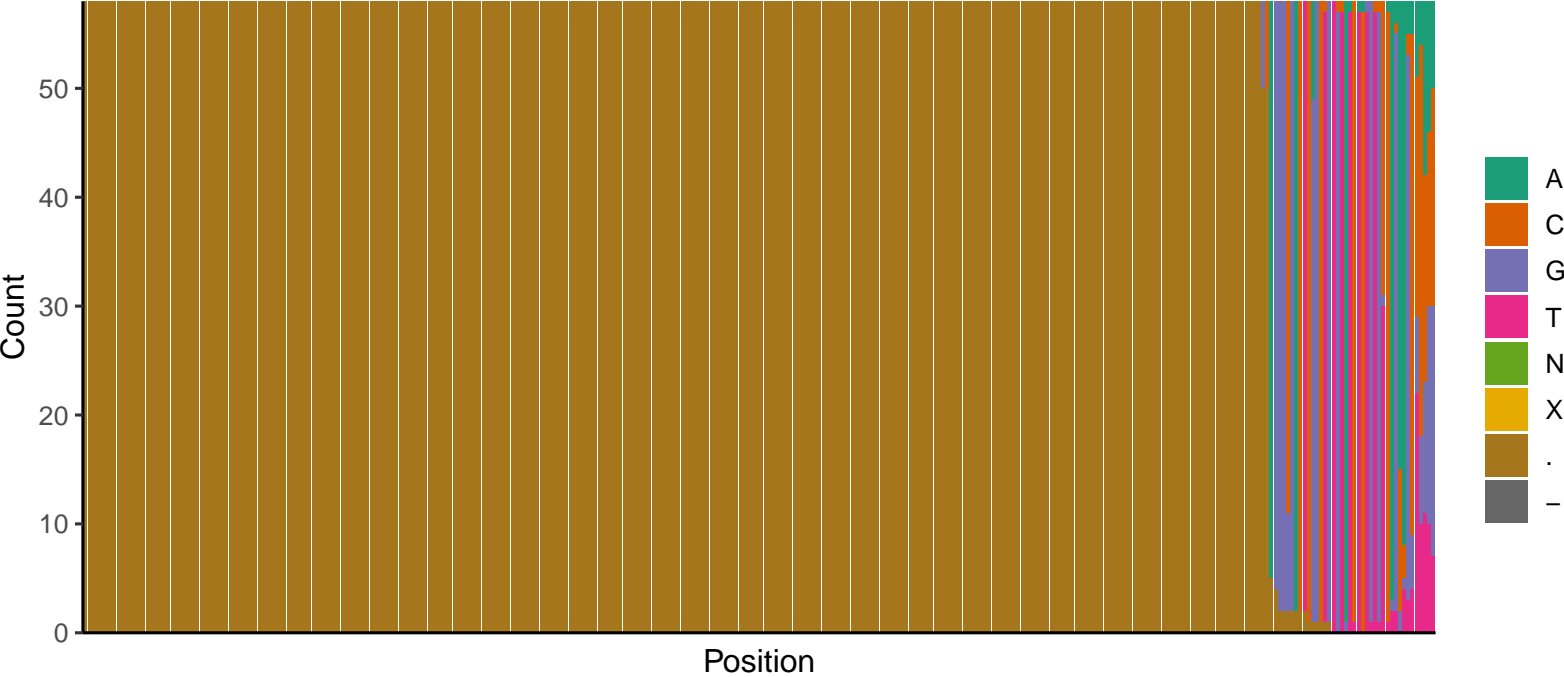
Gene TRBV7-7*ap01_C315T



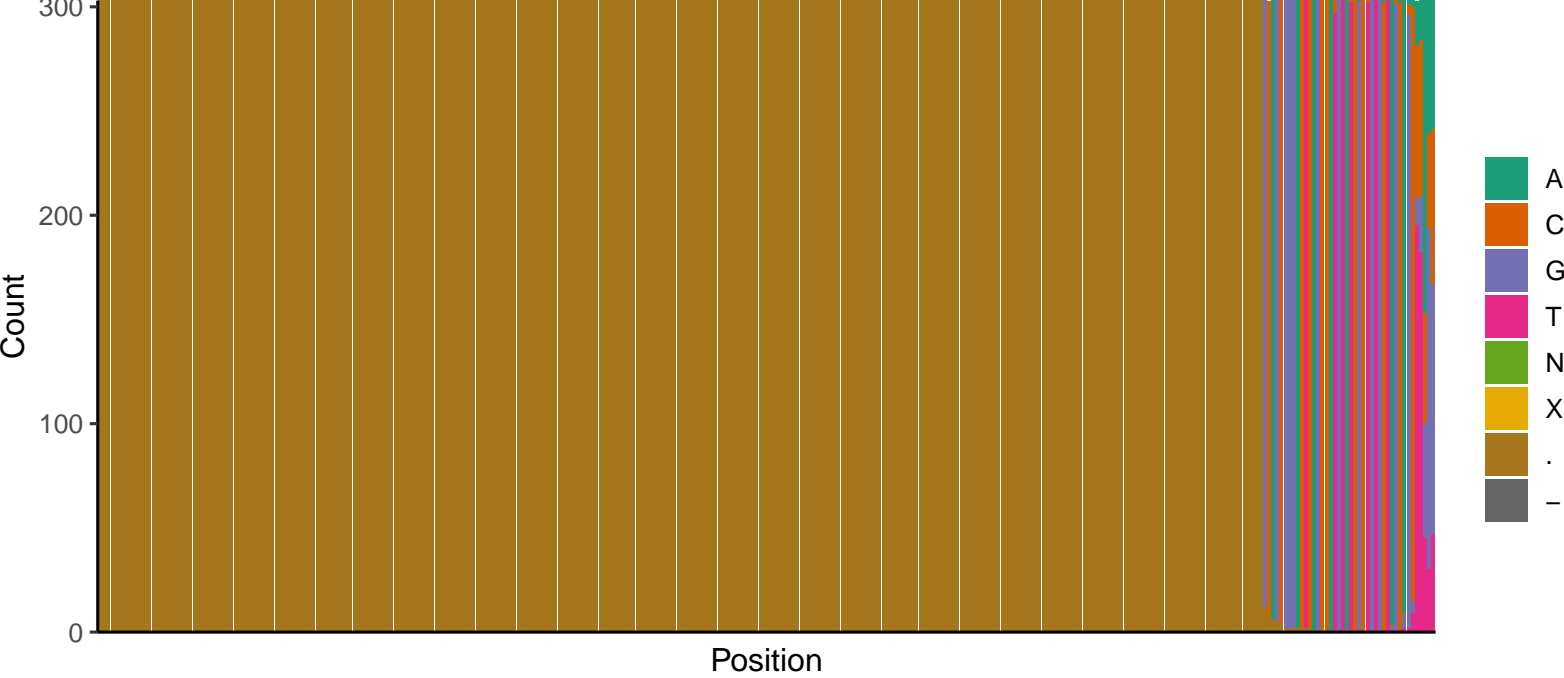
Gene TRBV23-1*ap01_T304C



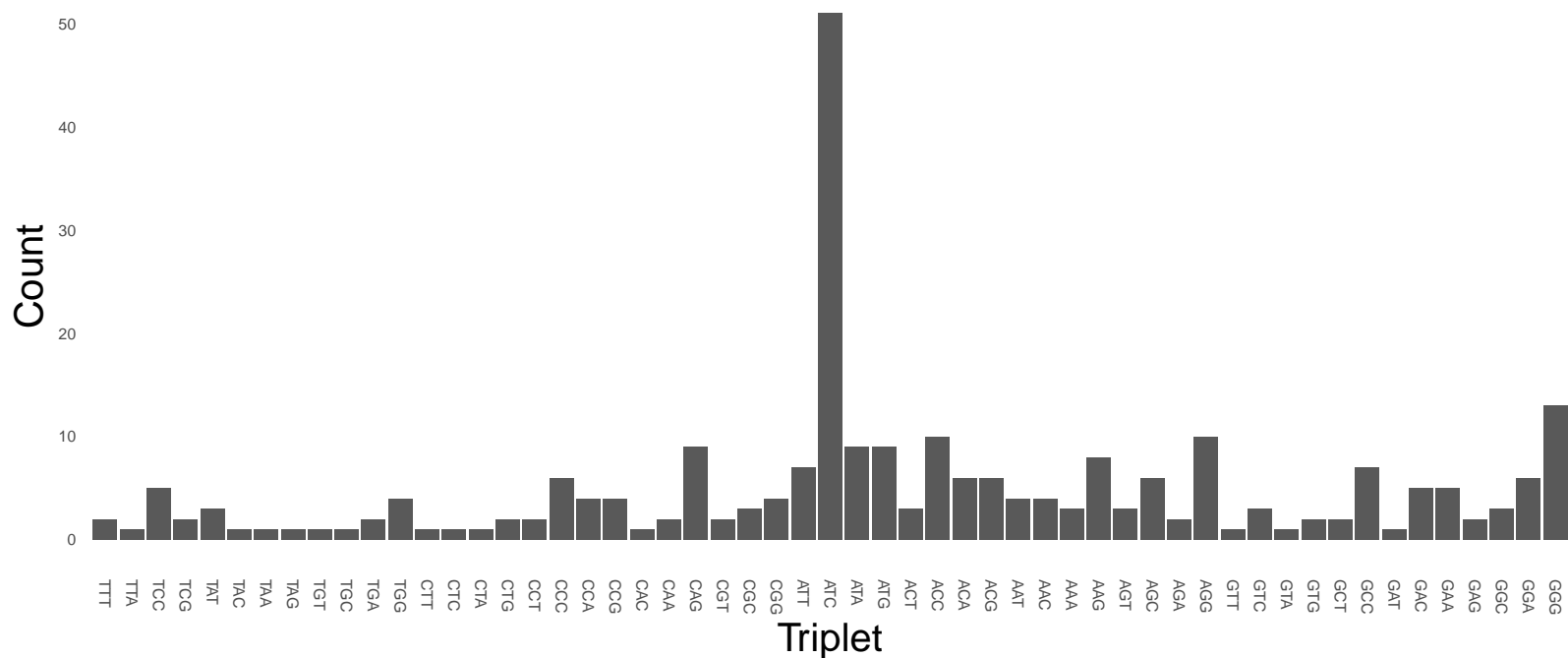
Gene TRBV7-1*ap01_T296C



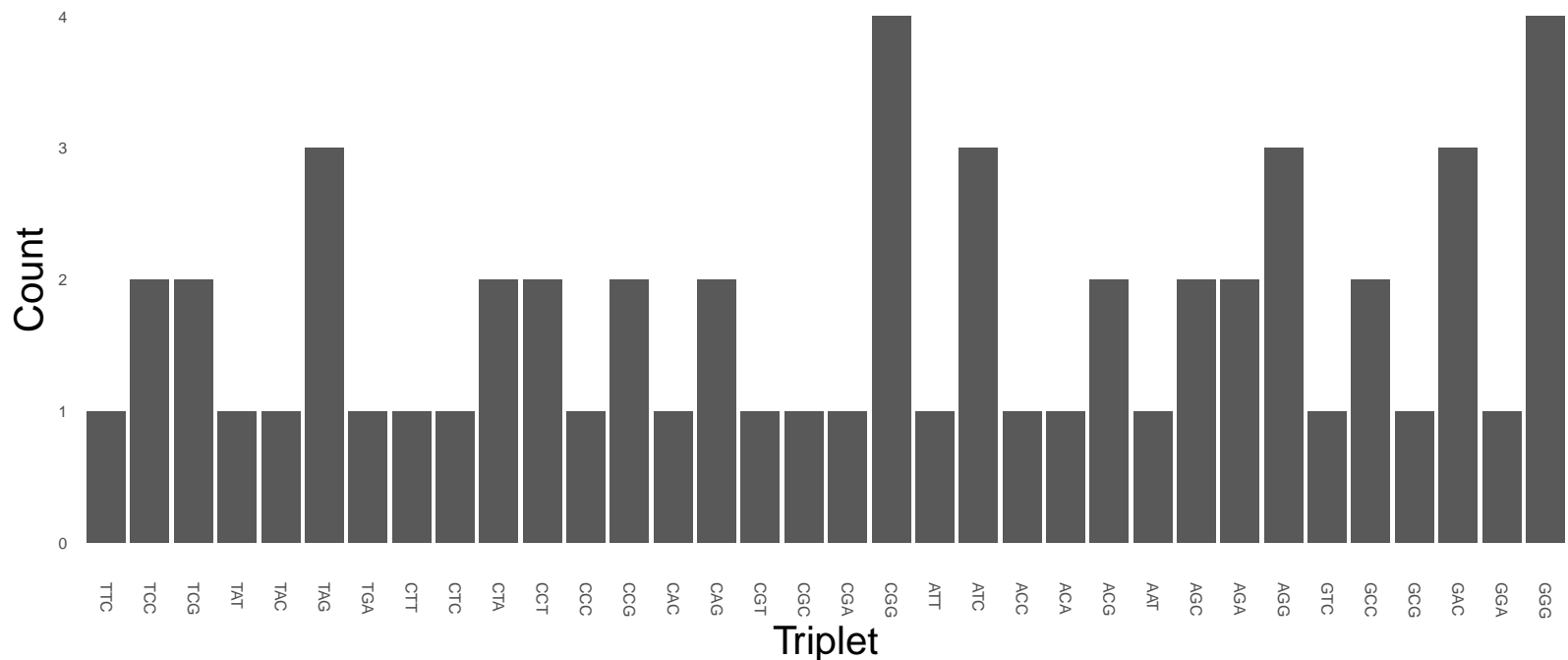
Gene TRBV7-7*ap01_C315T



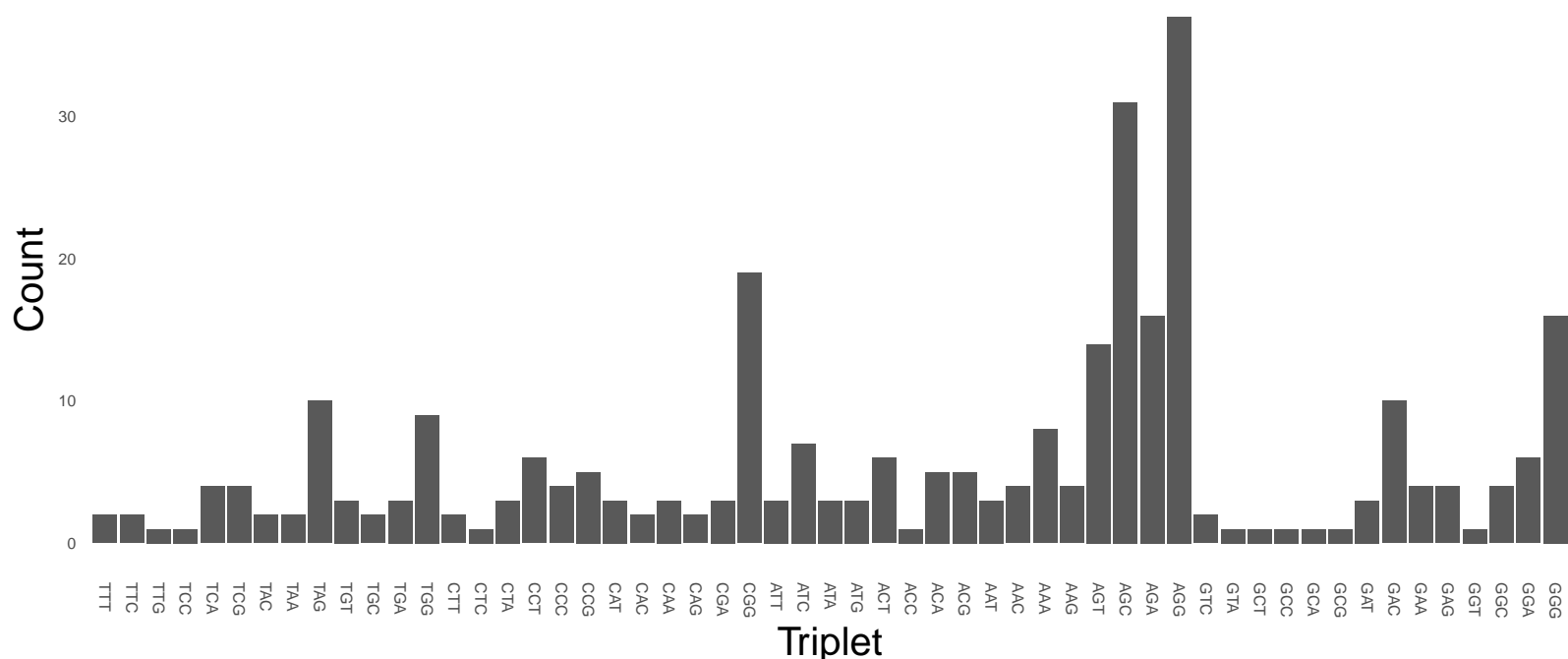
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



TRBV7-1*ap01_T296C- Final 3 nucleotides as a triplet

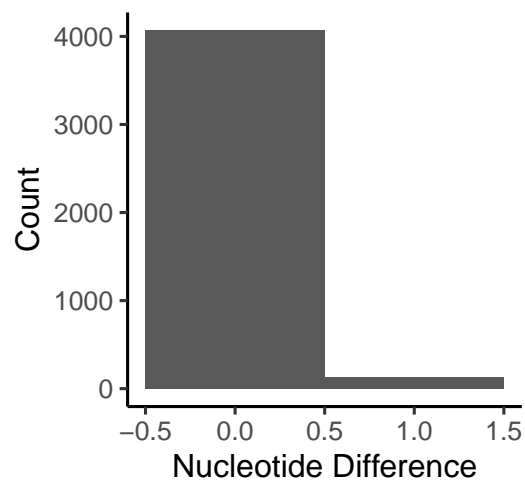


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



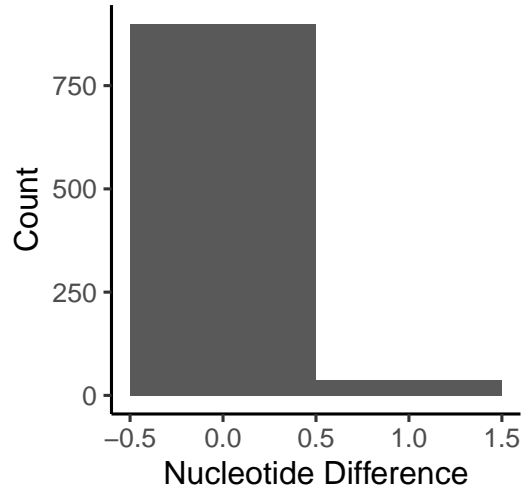
TRBV20-1*ap01

4198 sequences assigned
4068 (96.9%) exact matches, in which:
4026 unique CDR3
13 unique J



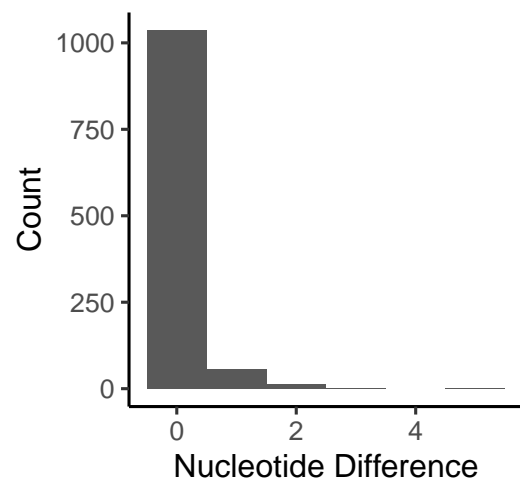
TRBV10-2*ap01

937 sequences assigned
900 (96.1%) exact matches, in which:
891 unique CDR3
13 unique J



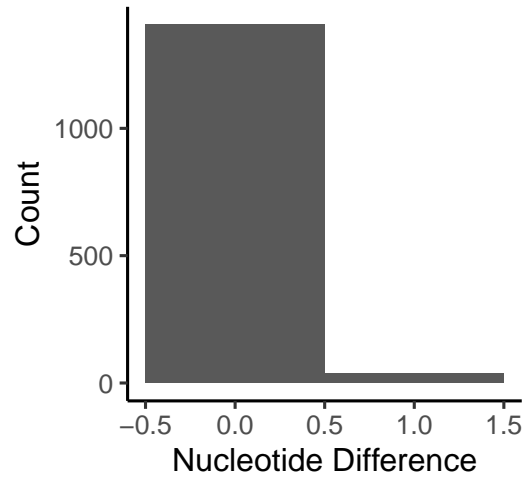
TRBV13*ap01

1106 sequences assigned
1036 (93.7%) exact matches, in which:
1005 unique CDR3
13 unique J



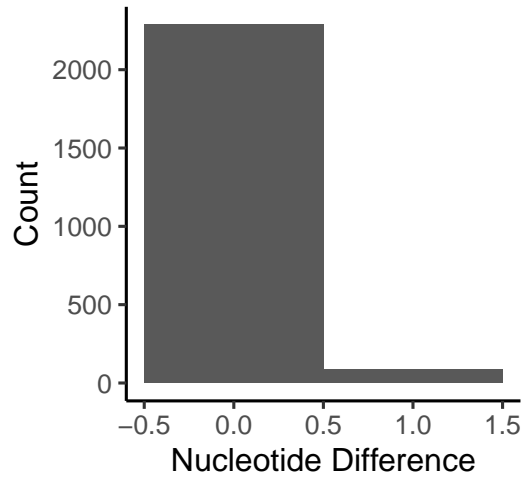
TRBV10-1*ap01

1446 sequences assigned
1407 (97.3%) exact matches, in which:
1396 unique CDR3
13 unique J



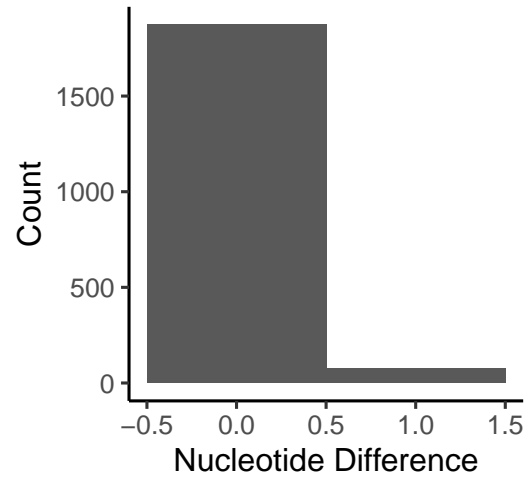
TRBV10-3*ap01

2370 sequences assigned
2287 (96.5%) exact matches, in which:
2263 unique CDR3
13 unique J



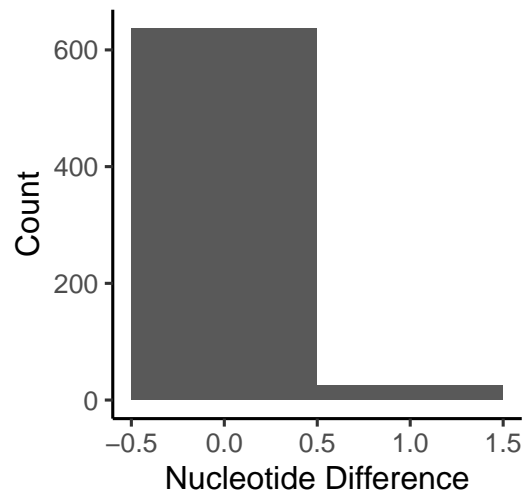
TRBV14*ap01

1947 sequences assigned
1873 (96.2%) exact matches, in which:
1852 unique CDR3
13 unique J



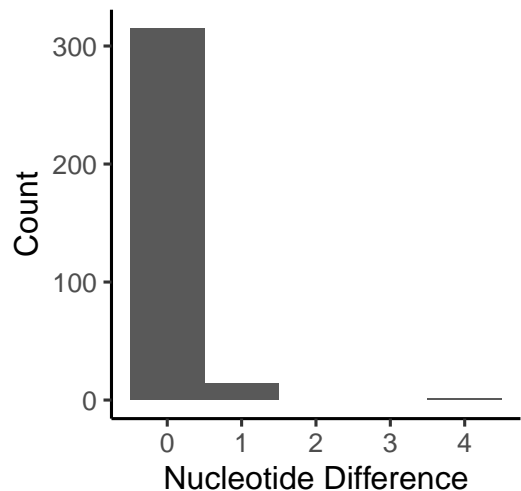
TRBV20-1*ap02

662 sequences assigned
637 (96.2%) exact matches, in which:
635 unique CDR3
13 unique J



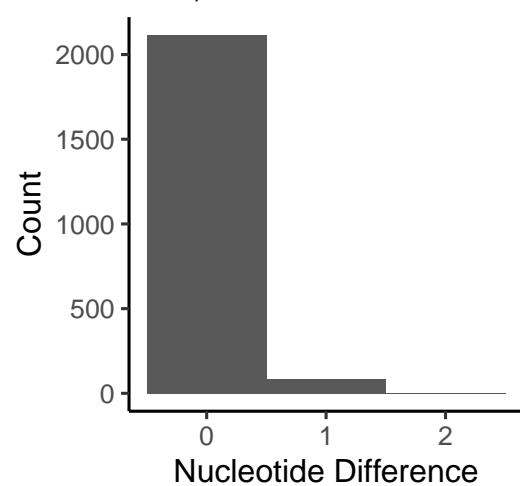
TRBV1*ap01

330 sequences assigned
315 (95.5%) exact matches, in which:
307 unique CDR3
13 unique J



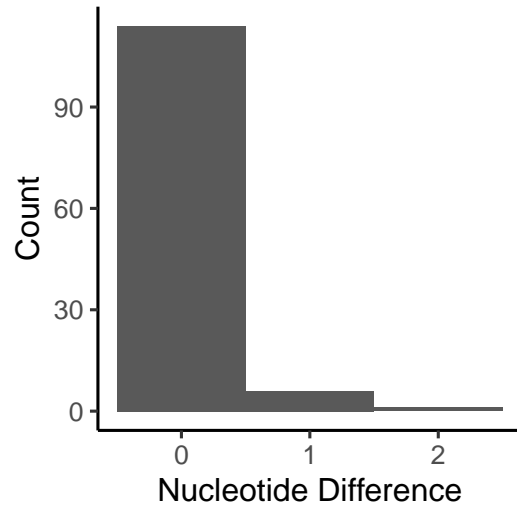
TRBV15*ap02

2200 sequences assigned
2115 (96.1%) exact matches, in which:
2062 unique CDR3
13 unique J



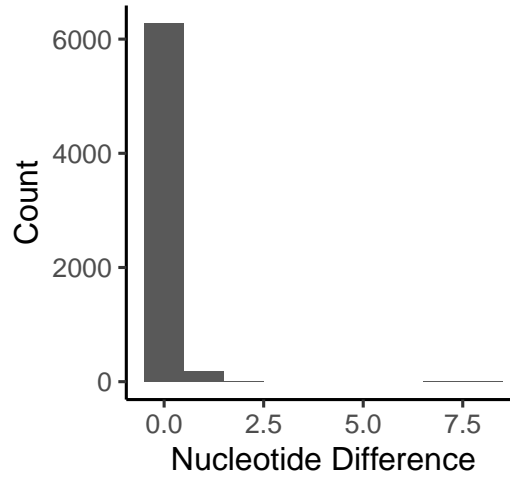
TRBV16*ap01

121 sequences assigned
114 (94.2%) exact matches, in which:
112 unique CDR3
12 unique J



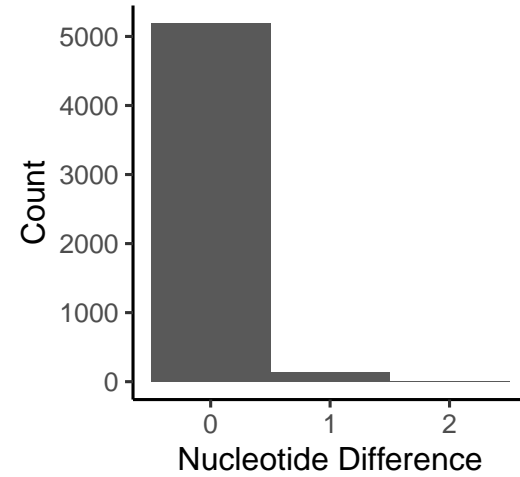
TRBV19*ap01

6463 sequences assigned
6275 (97.1%) exact matches, in which:
6224 unique CDR3
13 unique J



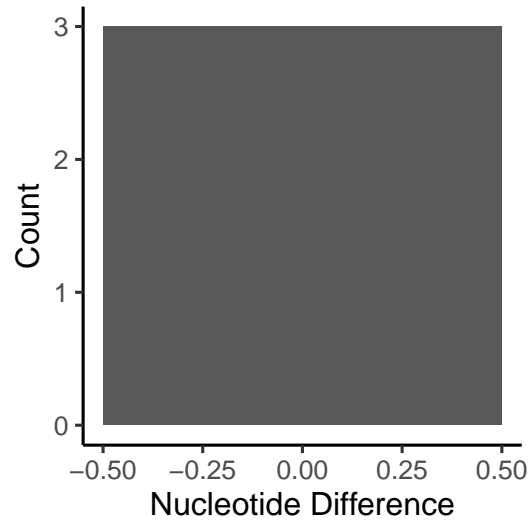
TRBV28*ap01

5335 sequences assigned
5189 (97.3%) exact matches, in which:
5140 unique CDR3
13 unique J



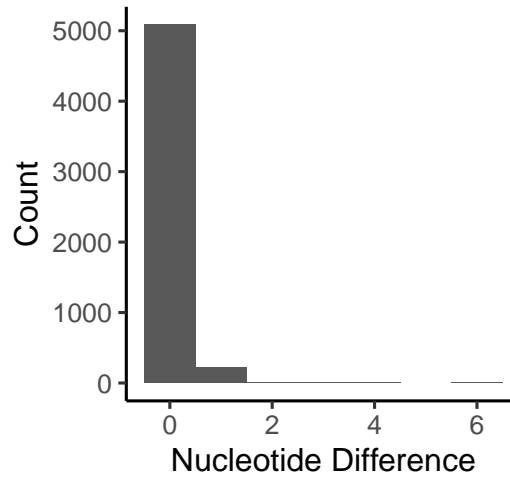
TRBV17*ap01

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
2 unique J



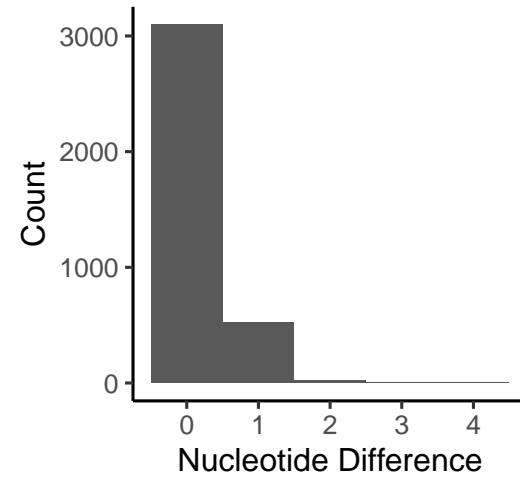
TRBV2*ap01

5317 sequences assigned
5085 (95.6%) exact matches, in which:
5022 unique CDR3
13 unique J



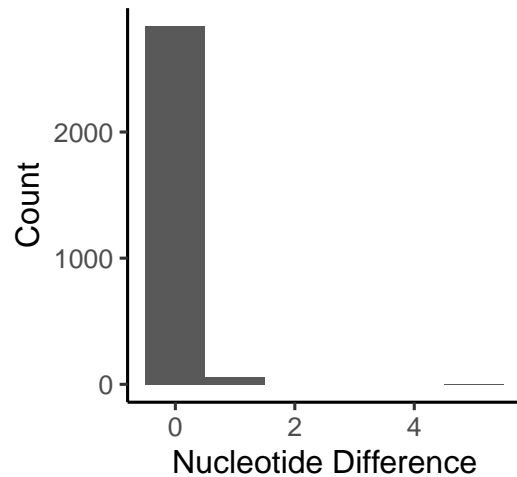
TRBV30*ap01

3643 sequences assigned
3097 (85%) exact matches, in which:
3002 unique CDR3
13 unique J



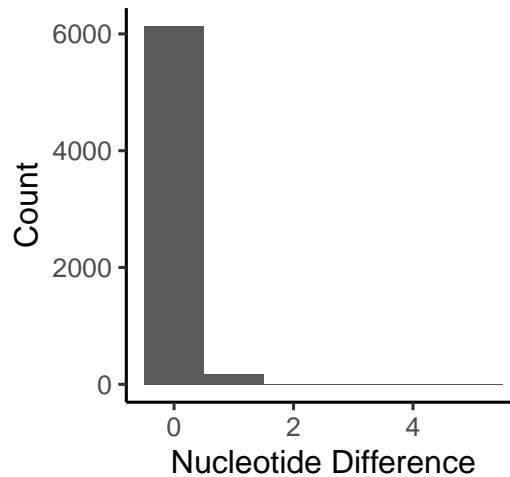
TRBV18*ap01

2900 sequences assigned
2840 (97.9%) exact matches, in which:
2814 unique CDR3
13 unique J



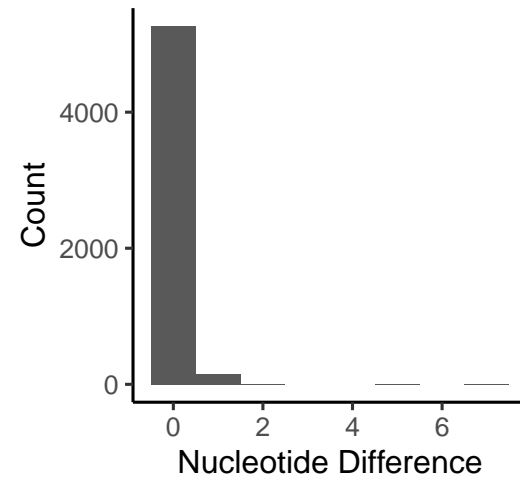
TRBV27*ap01

6319 sequences assigned
6134 (97.1%) exact matches, in which:
6052 unique CDR3
13 unique J



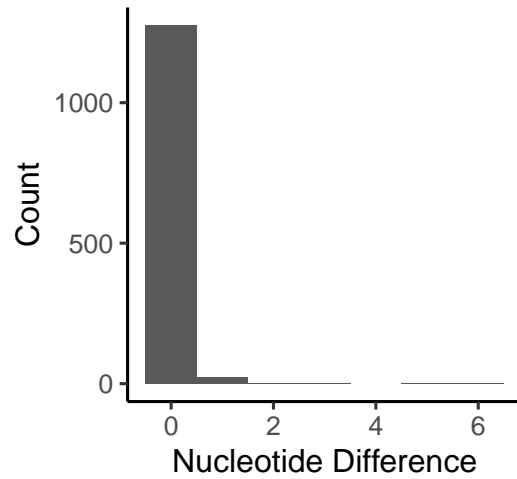
TRBV9*ap01

5424 sequences assigned
5266 (97.1%) exact matches, in which:
5204 unique CDR3
13 unique J



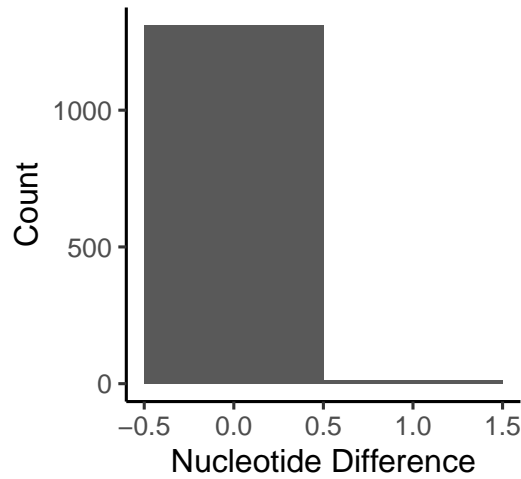
TRBV21-1*ap01

1304 sequences assigned
1275 (97.8%) exact matches, in which:
1263 unique CDR3
13 unique J



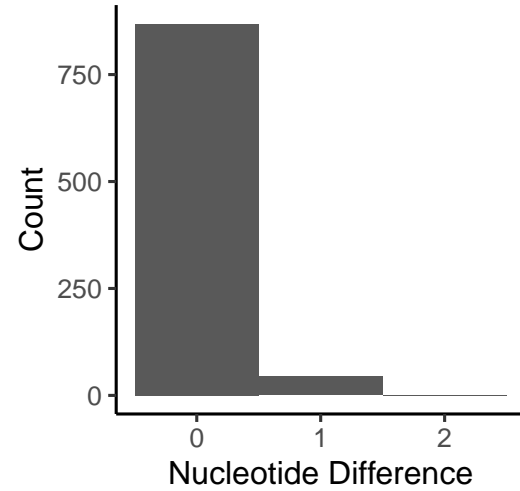
TRBV11-3*ap01

1323 sequences assigned
1310 (99%) exact matches, in which:
1304 unique CDR3
13 unique J



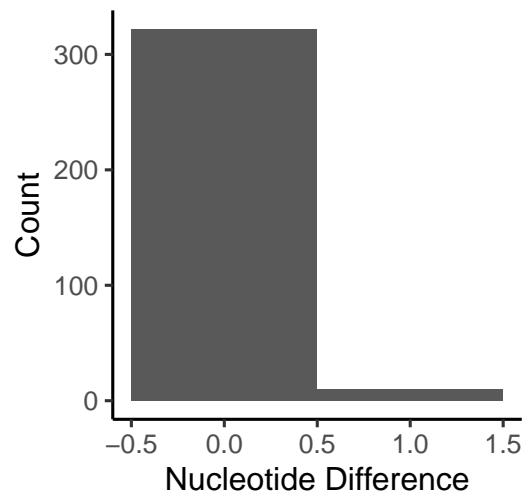
TRBV12-5*ap01

914 sequences assigned
869 (95.1%) exact matches, in which:
851 unique CDR3
13 unique J



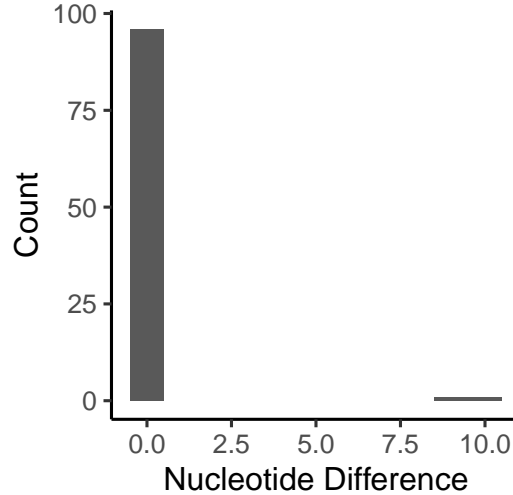
TRBV11-1*ap01

332 sequences assigned
322 (97%) exact matches, in which:
320 unique CDR3
13 unique J



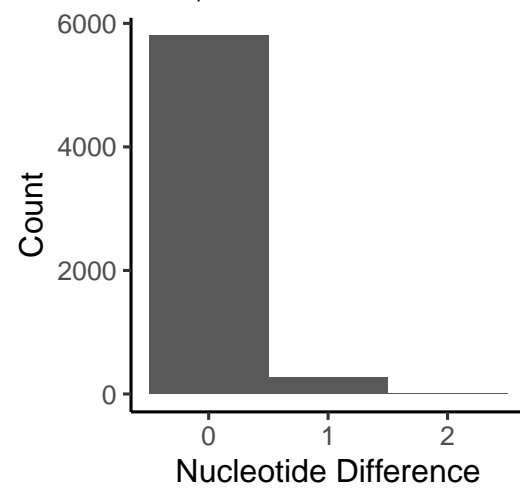
TRBV12-1*ap01

98 sequences assigned
96 (98%) exact matches, in which:
95 unique CDR3
13 unique J



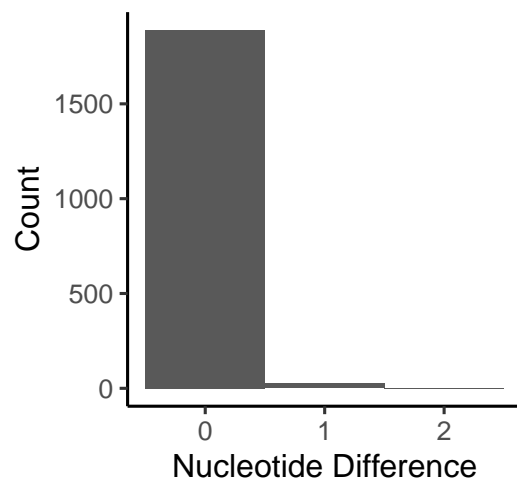
TRBV12-34*ap01

6062 sequences assigned
5800 (95.7%) exact matches, in which:
5734 unique CDR3
13 unique J



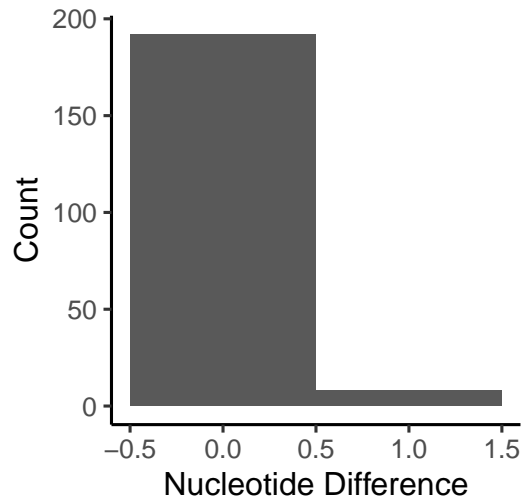
TRBV11-2*ap01

1916 sequences assigned
1889 (98.6%) exact matches, in which:
1881 unique CDR3
14 unique J



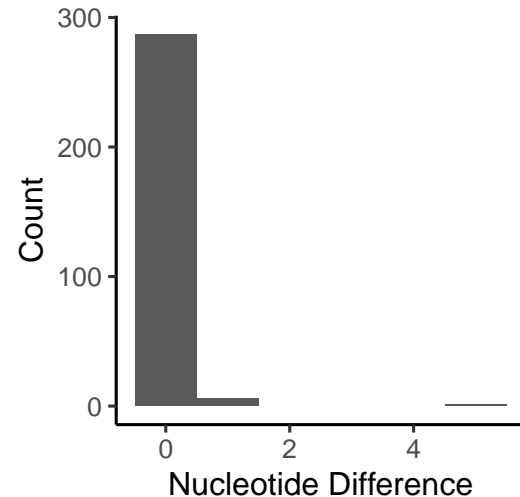
TRBV12-2*ap01

200 sequences assigned
192 (96%) exact matches, in which:
190 unique CDR3
13 unique J



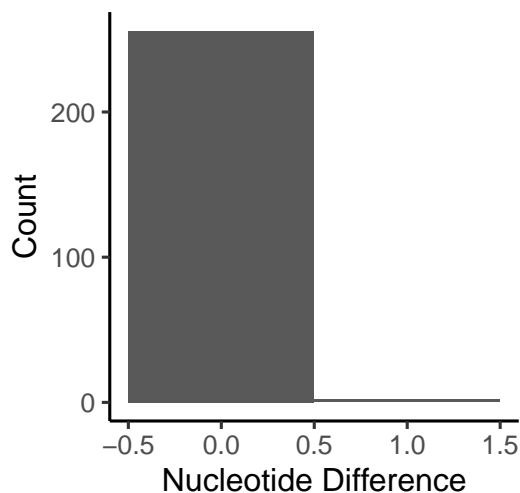
TRBV23-1*ap01

294 sequences assigned
287 (97.6%) exact matches, in which:
284 unique CDR3
13 unique J



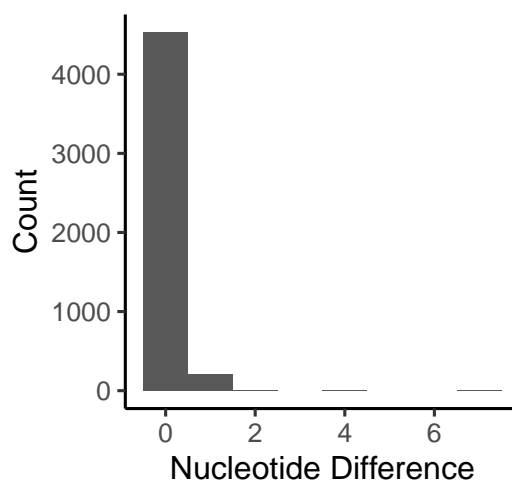
TRBV23–1*ap01_T304C

258 sequences assigned
256 (99.2%) exact matches, in which:
254 unique CDR3
13 unique J



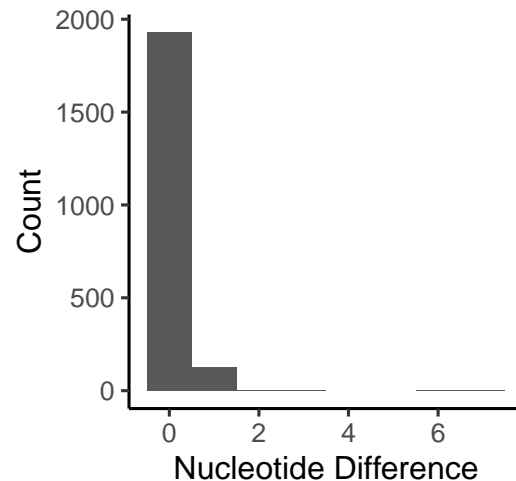
TRBV24–1*ap01

4737 sequences assigned
4529 (95.6%) exact matches, in which:
4437 unique CDR3
13 unique J



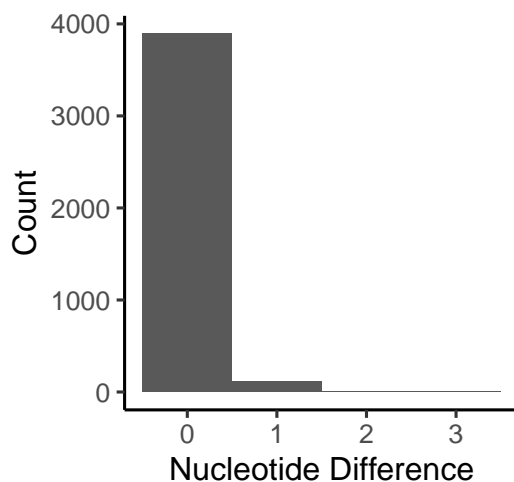
TRBV25–1*ap01

2061 sequences assigned
1929 (93.6%) exact matches, in which:
1875 unique CDR3
13 unique J



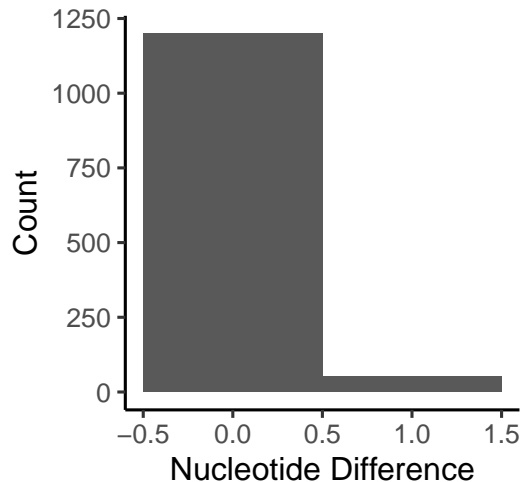
TRBV3–12*ap01

4010 sequences assigned
3893 (97.1%) exact matches, in which:
3852 unique CDR3
13 unique J



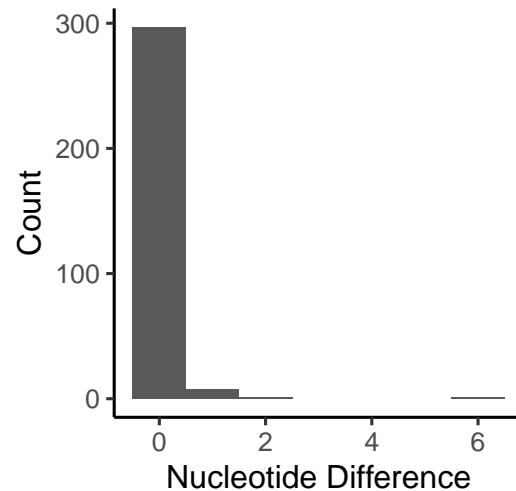
TRBV4–2*ap01

1251 sequences assigned
1199 (95.8%) exact matches, in which:
1172 unique CDR3
13 unique J



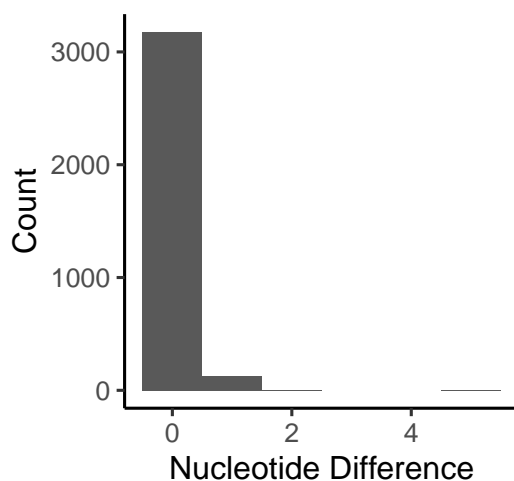
TRBV5–3*ap01

307 sequences assigned
297 (96.7%) exact matches, in which:
292 unique CDR3
13 unique J



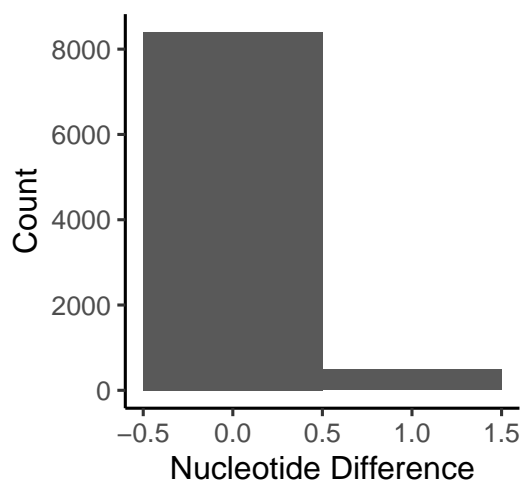
TRBV4–1*ap01

3308 sequences assigned
3176 (96%) exact matches, in which:
3091 unique CDR3
13 unique J



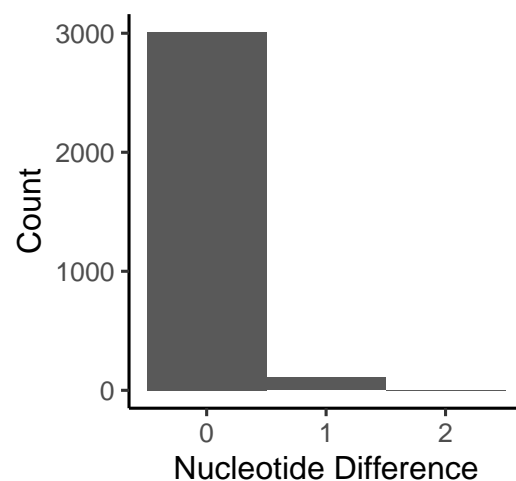
TRBV5–1*ap01

8887 sequences assigned
8401 (94.5%) exact matches, in which:
8245 unique CDR3
13 unique J



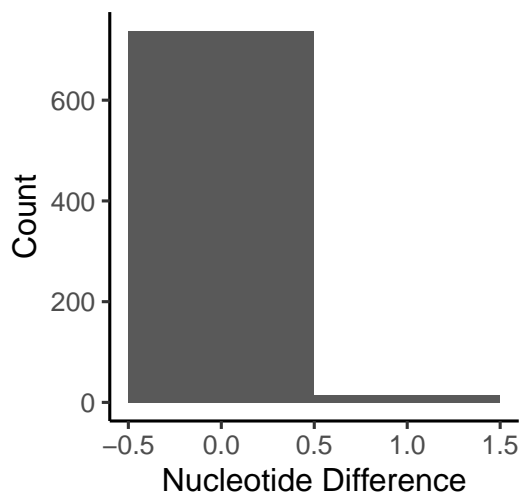
TRBV5–4*ap01

3121 sequences assigned
3010 (96.4%) exact matches, in which:
2962 unique CDR3
13 unique J



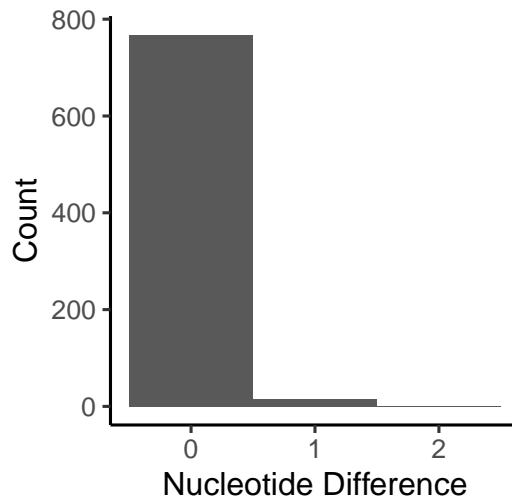
TRBV5-5*ap01

752 sequences assigned
738 (98.1%) exact matches, in which:
734 unique CDR3
13 unique J



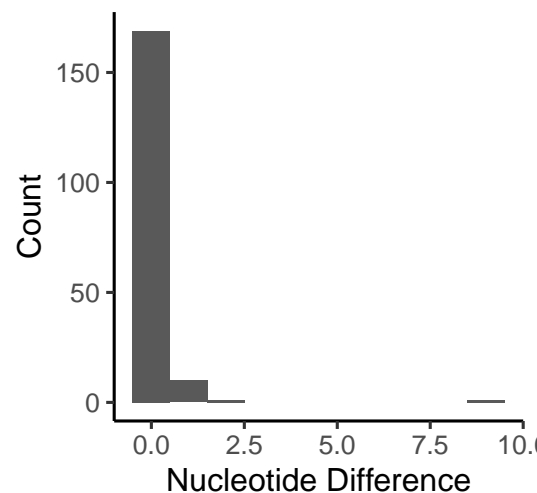
TRBV5-8*ap01

784 sequences assigned
768 (98%) exact matches, in which:
758 unique CDR3
13 unique J



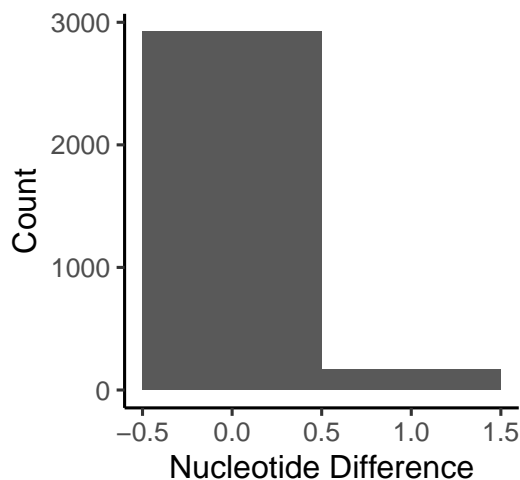
TRBV6-7*ap01

181 sequences assigned
169 (93.4%) exact matches, in which:
167 unique CDR3
13 unique J



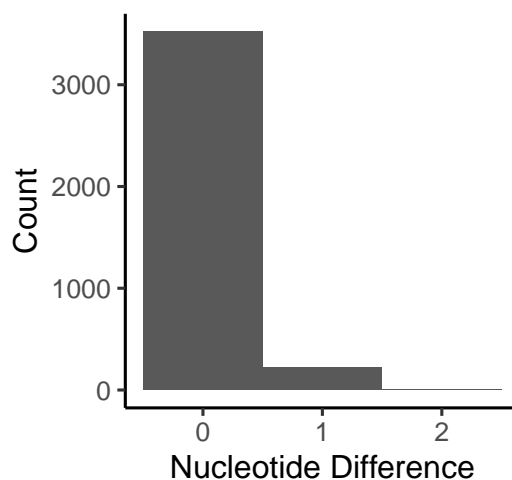
TRBV5-6*ap01

3090 sequences assigned
2923 (94.6%) exact matches, in which:
2851 unique CDR3
13 unique J



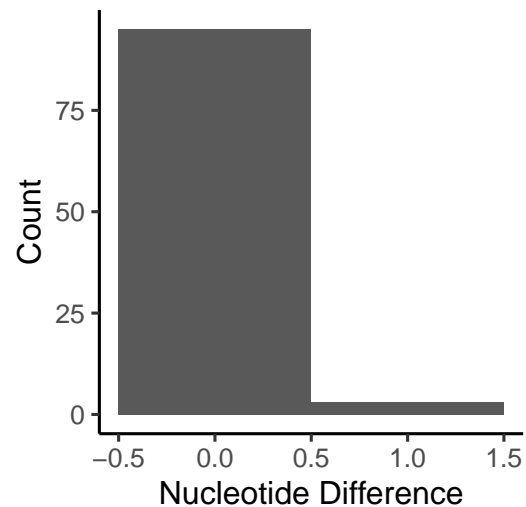
TRBV6-1*ap01

3750 sequences assigned
3521 (93.9%) exact matches, in which:
3439 unique CDR3
13 unique J



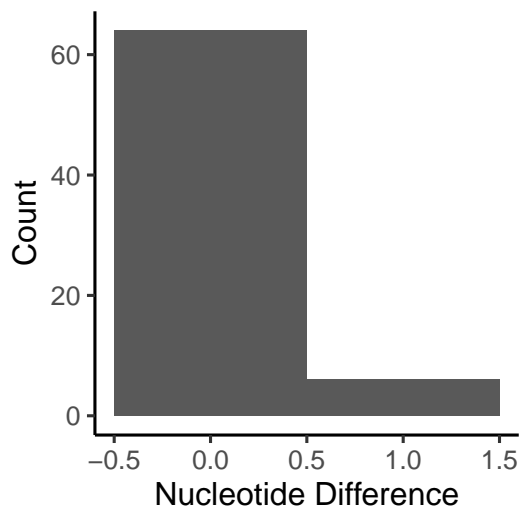
TRBV6-8*ap01

98 sequences assigned
95 (96.9%) exact matches, in which:
94 unique CDR3
12 unique J



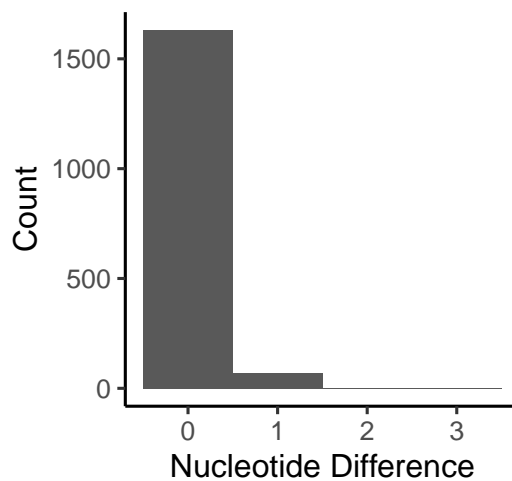
TRBV5-7*ap01

70 sequences assigned
64 (91.4%) exact matches, in which:
60 unique CDR3
12 unique J



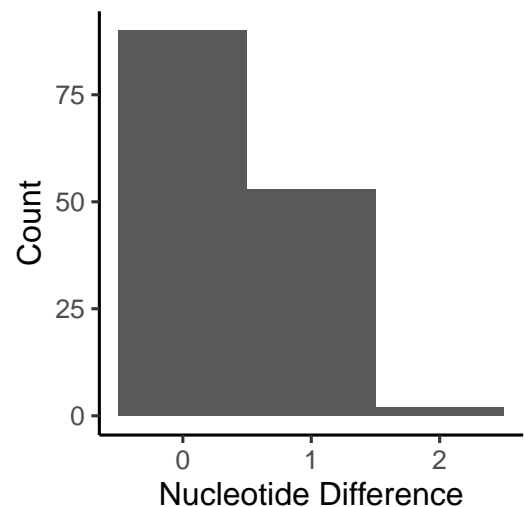
TRBV6-4*ap01

1703 sequences assigned
1631 (95.8%) exact matches, in which:
1611 unique CDR3
13 unique J



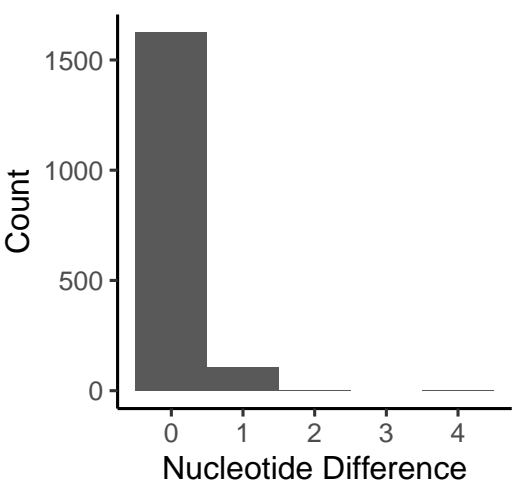
TRBV6-9*ap01

145 sequences assigned
90 (62.1%) exact matches, in which:
88 unique CDR3
12 unique J



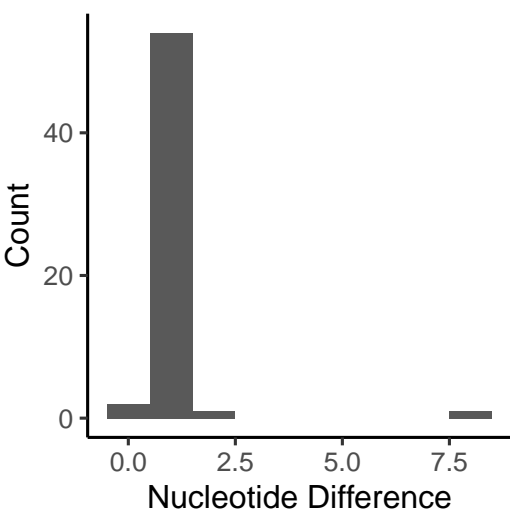
TRBV6-23*ap01

1736 sequences assigned
1625 (93.6%) exact matches, in which:
1590 unique CDR3
13 unique J



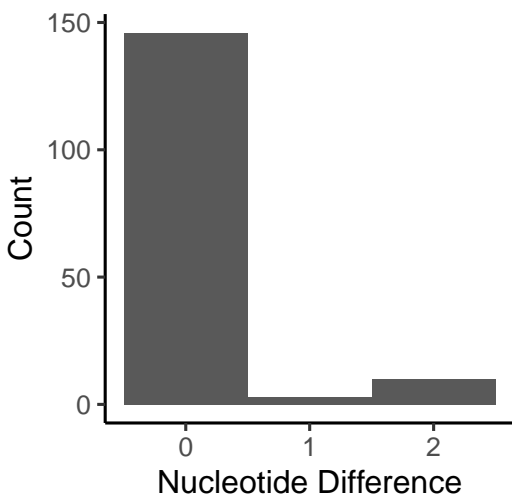
TRBV7-1*ap01_T296C

58 sequences assigned
2 (3.4%) exact matches, in which:
2 unique CDR3
2 unique J



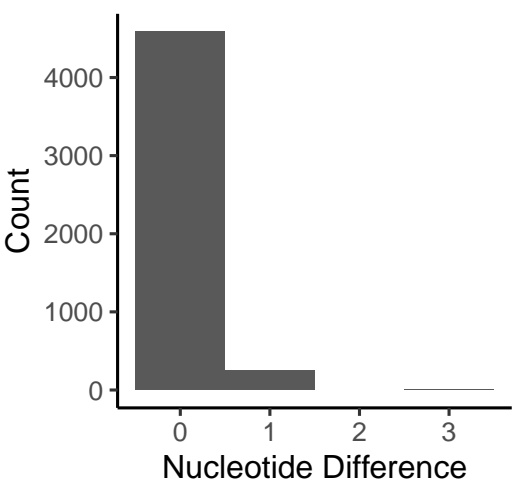
TRBV7-4*ap01

159 sequences assigned
146 (91.8%) exact matches, in which:
142 unique CDR3
13 unique J



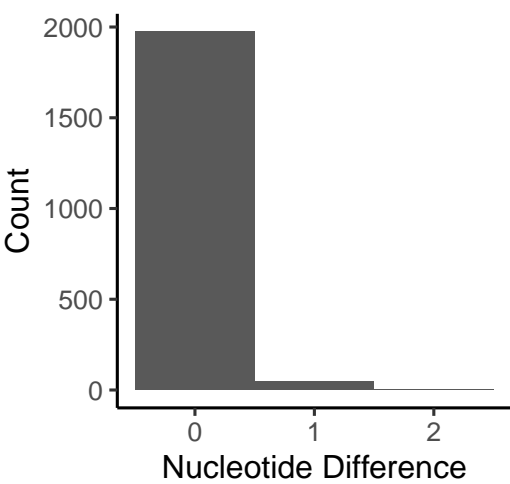
TRBV6-56*ap01

4840 sequences assigned
4586 (94.8%) exact matches, in which:
4476 unique CDR3
13 unique J



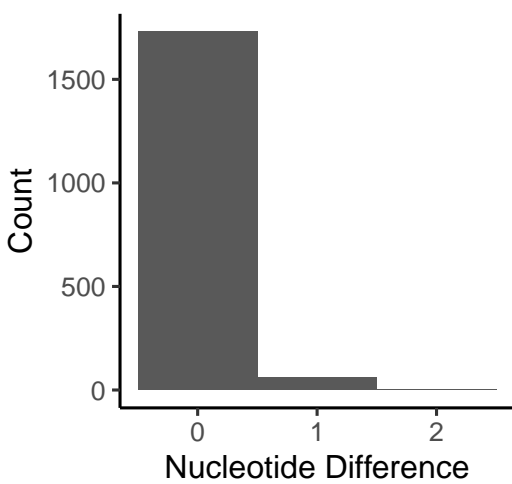
TRBV7-2*ap01

2022 sequences assigned
1974 (97.6%) exact matches, in which:
1953 unique CDR3
13 unique J



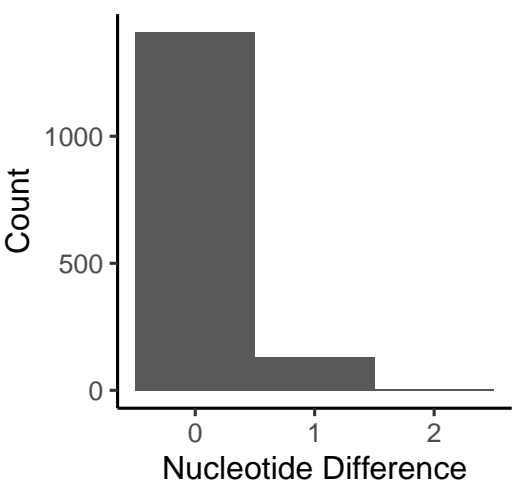
TRBV7-6*ap01

1792 sequences assigned
1730 (96.5%) exact matches, in which:
1708 unique CDR3
13 unique J



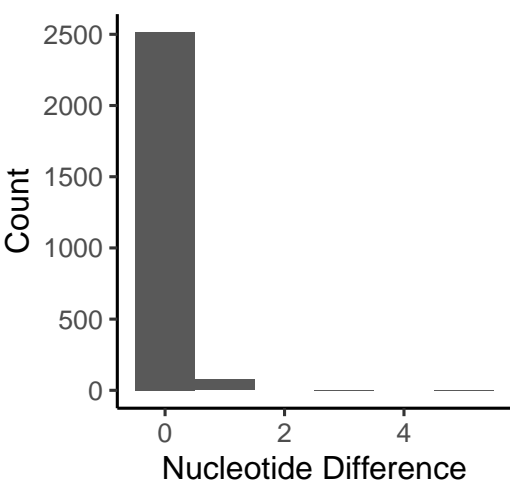
TRBV6-56*ap02

1548 sequences assigned
1410 (91.1%) exact matches, in which:
1372 unique CDR3
13 unique J



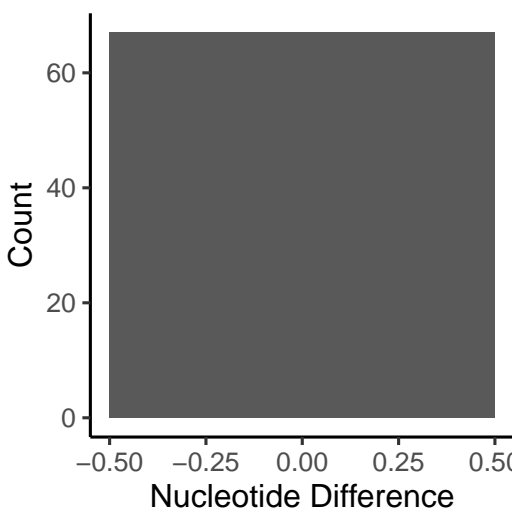
TRBV7-3*ap01

2595 sequences assigned
2516 (97%) exact matches, in which:
2492 unique CDR3
13 unique J



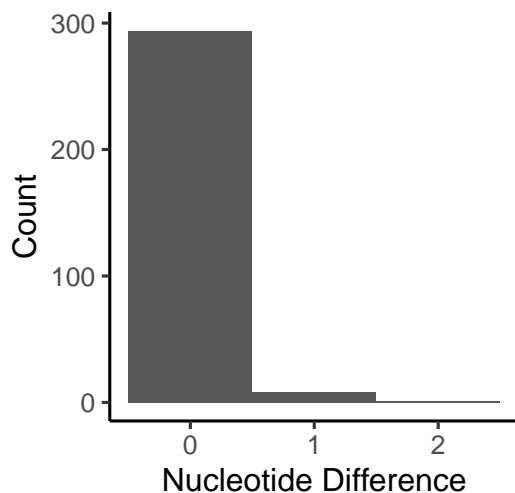
TRBV7-7*ap01

67 sequences assigned
67 (100%) exact matches, in which:
66 unique CDR3
13 unique J



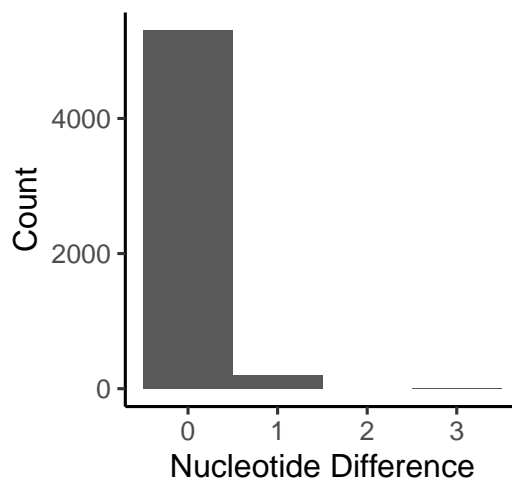
TRBV7-7*ap01_C315T

303 sequences assigned
294 (97%) exact matches, in which:
290 unique CDR3
12 unique J



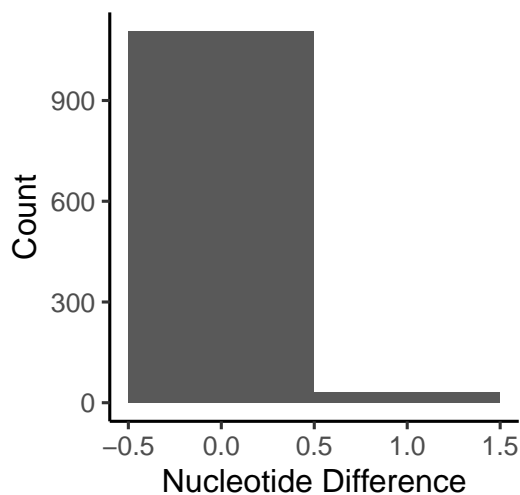
TRBV7-9*ap01

5509 sequences assigned
5303 (96.3%) exact matches, in which:
5242 unique CDR3
13 unique J



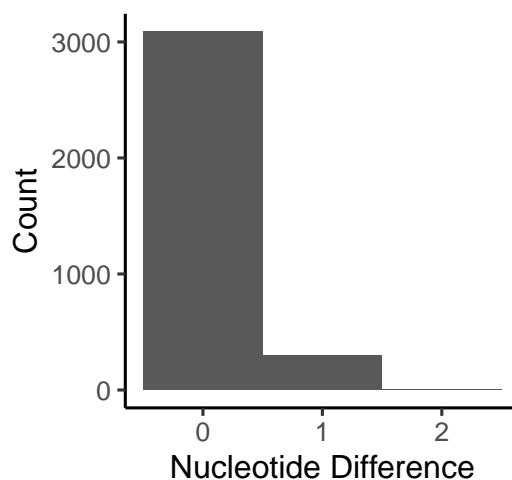
TRBV7-8*ap01

1138 sequences assigned
1107 (97.3%) exact matches, in which:
1091 unique CDR3
13 unique J



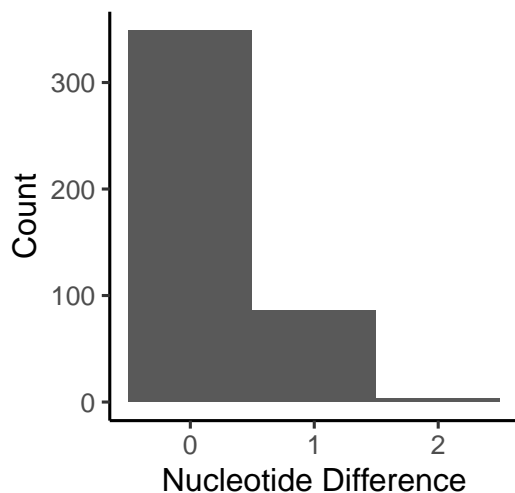
TRBV29-1*ap01

3390 sequences assigned
3088 (91.1%) exact matches, in which:
3036 unique CDR3
13 unique J



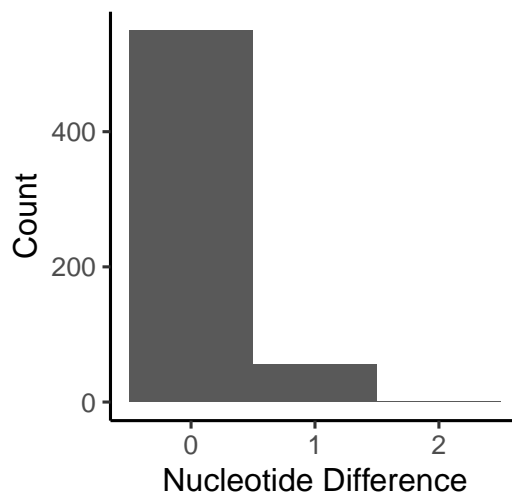
TRBV7-8*ap03

438 sequences assigned
349 (79.7%) exact matches, in which:
341 unique CDR3
13 unique J

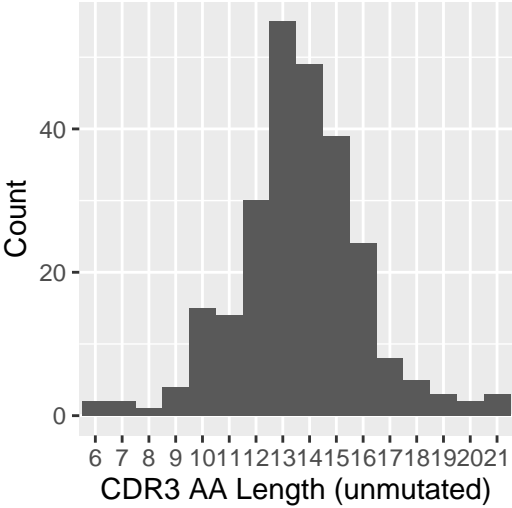


TRBV29-1*ap02

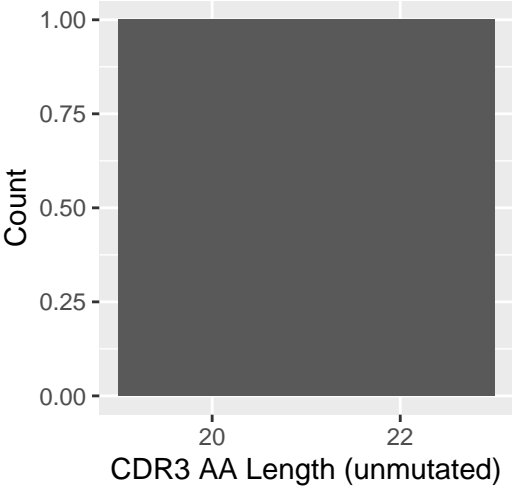
607 sequences assigned
550 (90.6%) exact matches, in which:
538 unique CDR3
13 unique J



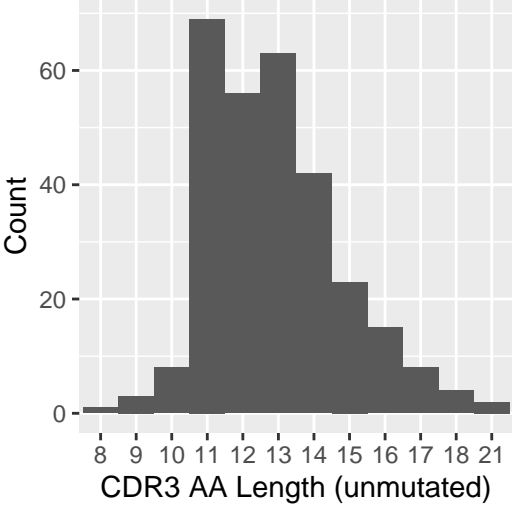
TRBV23-1*ap01_T304C



TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T





[illegible]