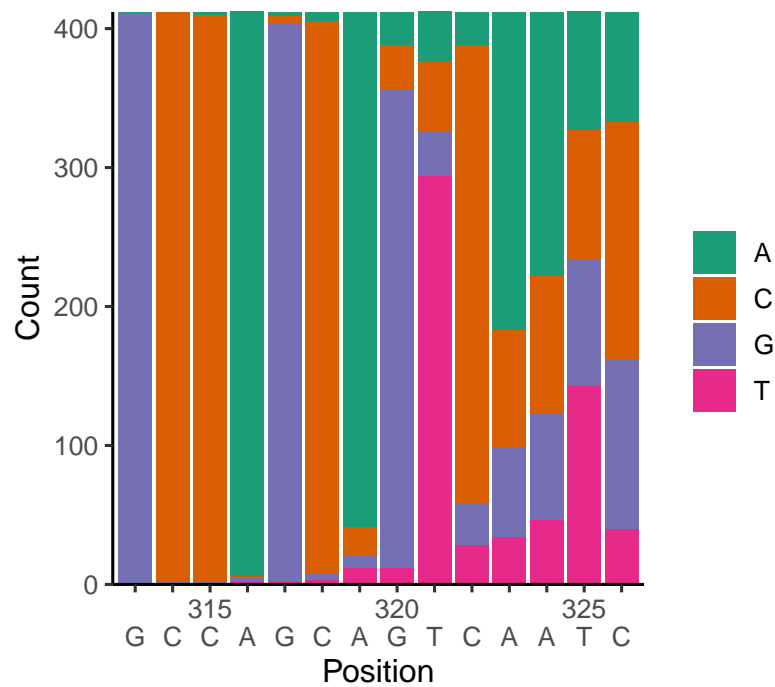
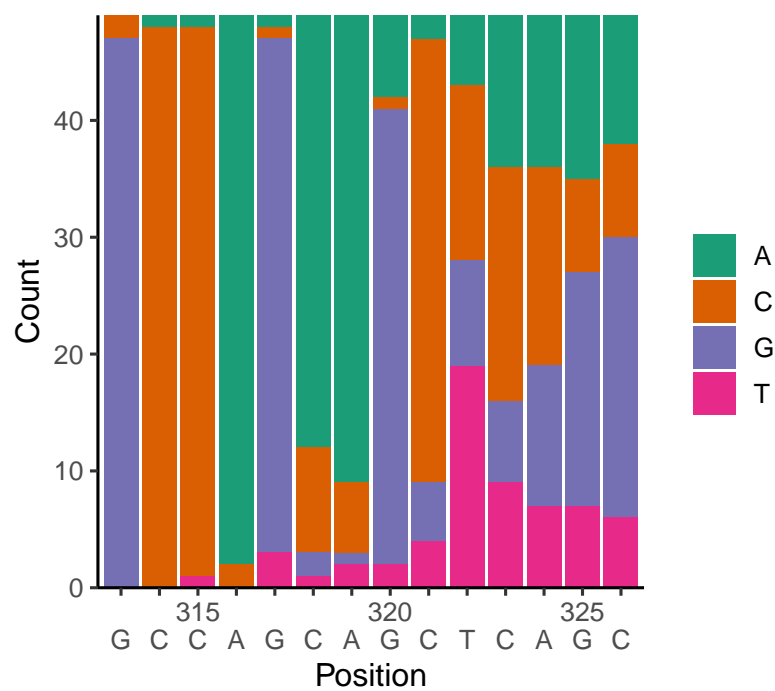


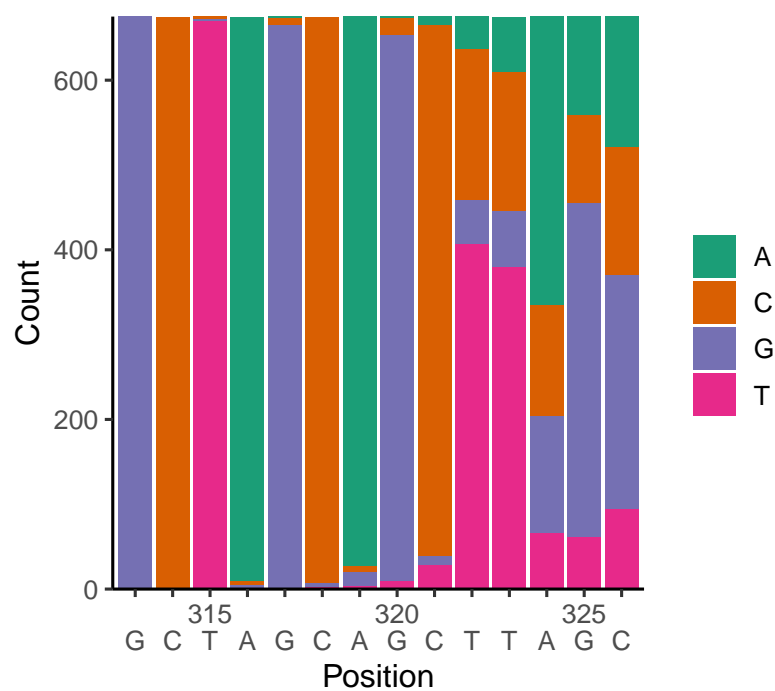
Gene TRBV23-1*ap01_T304C



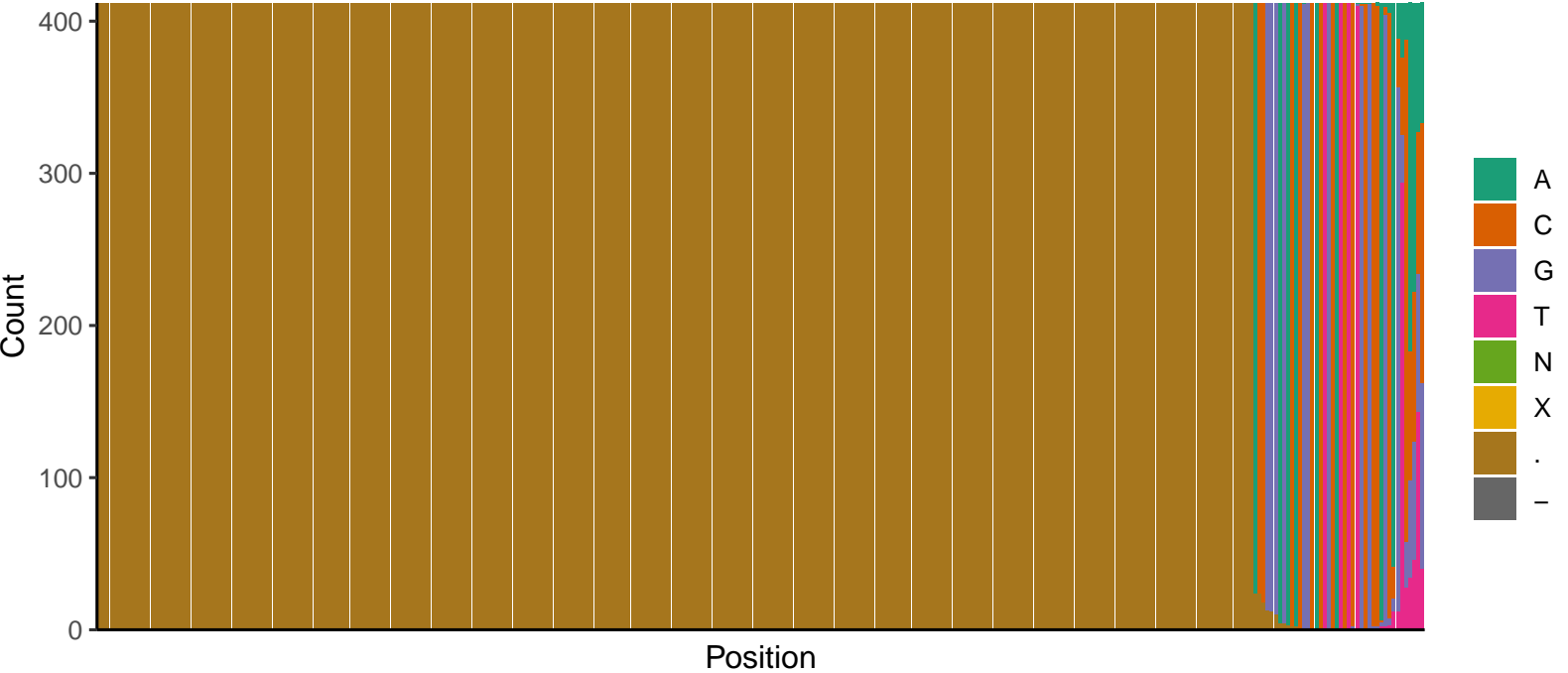
Gene TRBV7-1*ap01_T296C



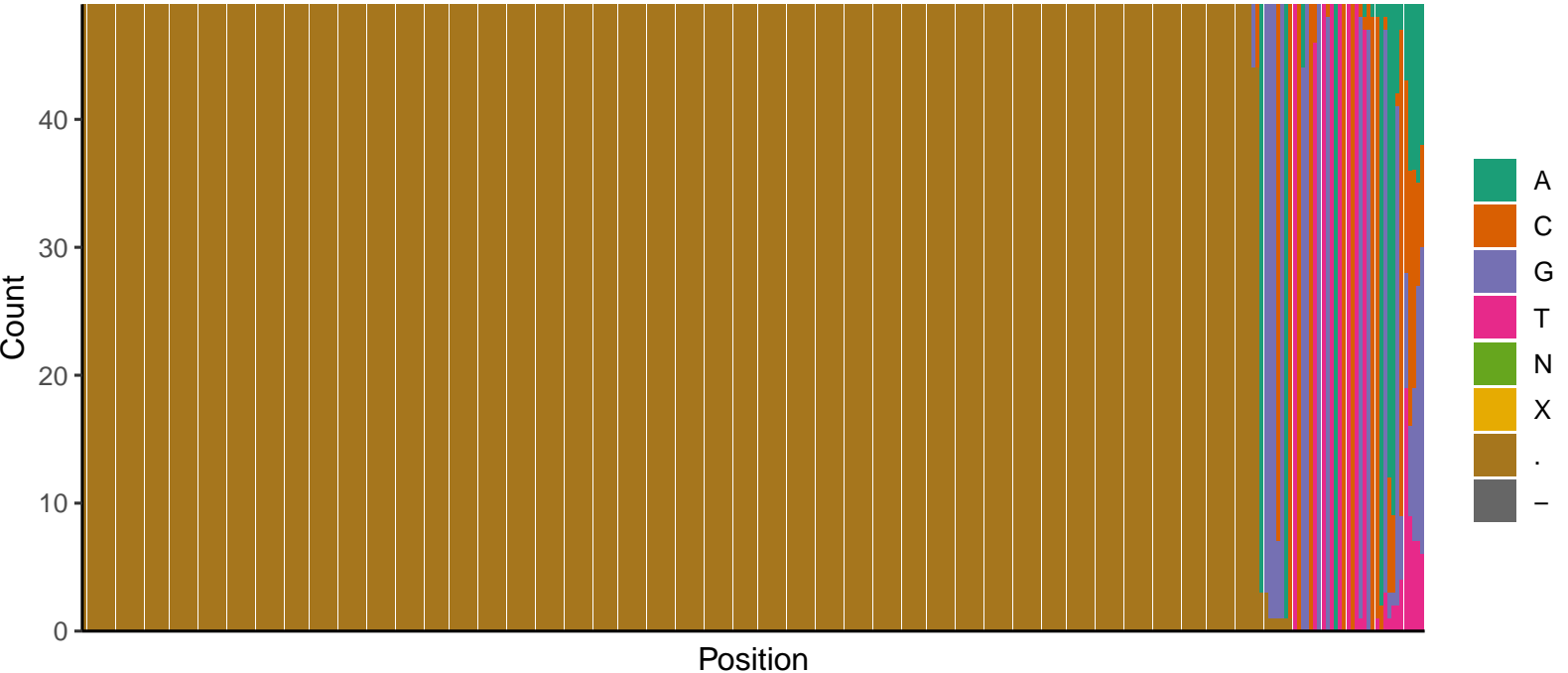
Gene TRBV7-7*ap01_C315T



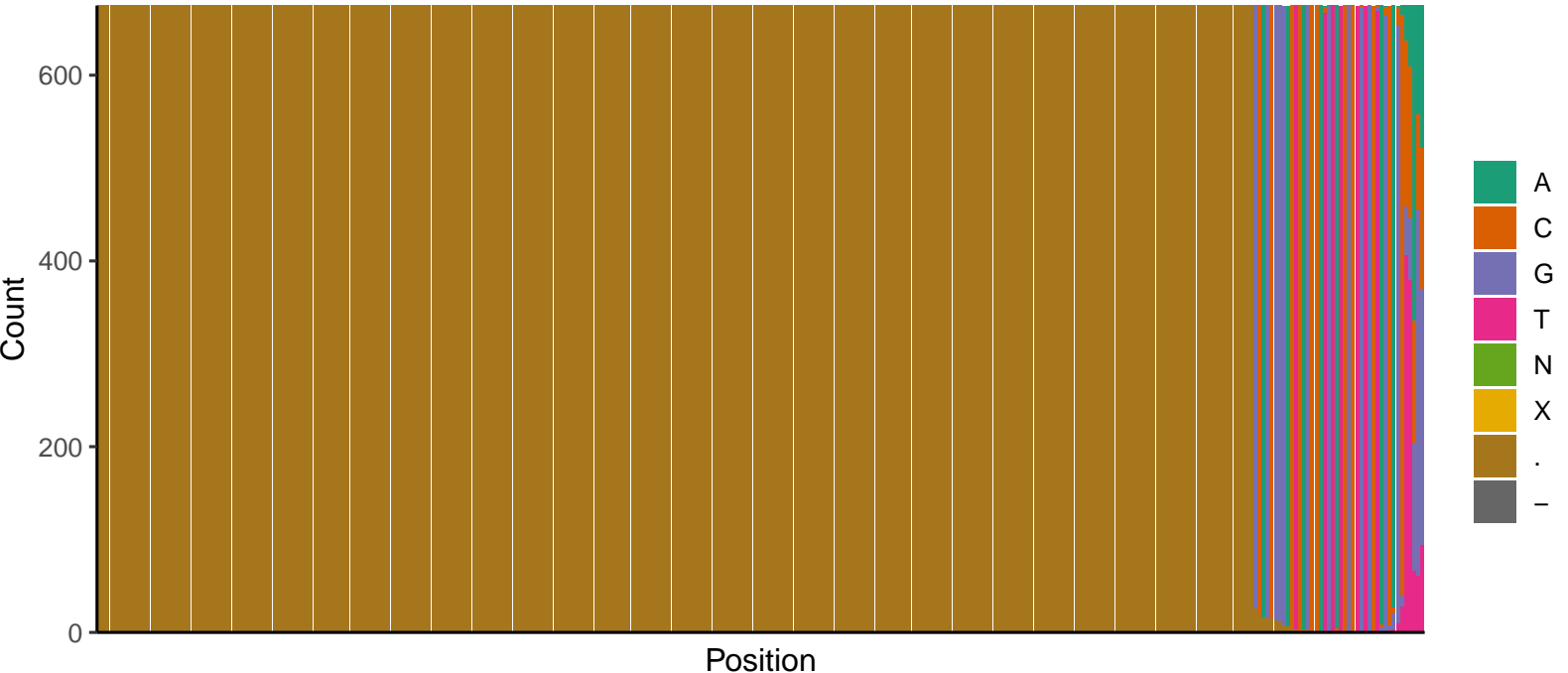
Gene TRBV23-1*ap01_T304C



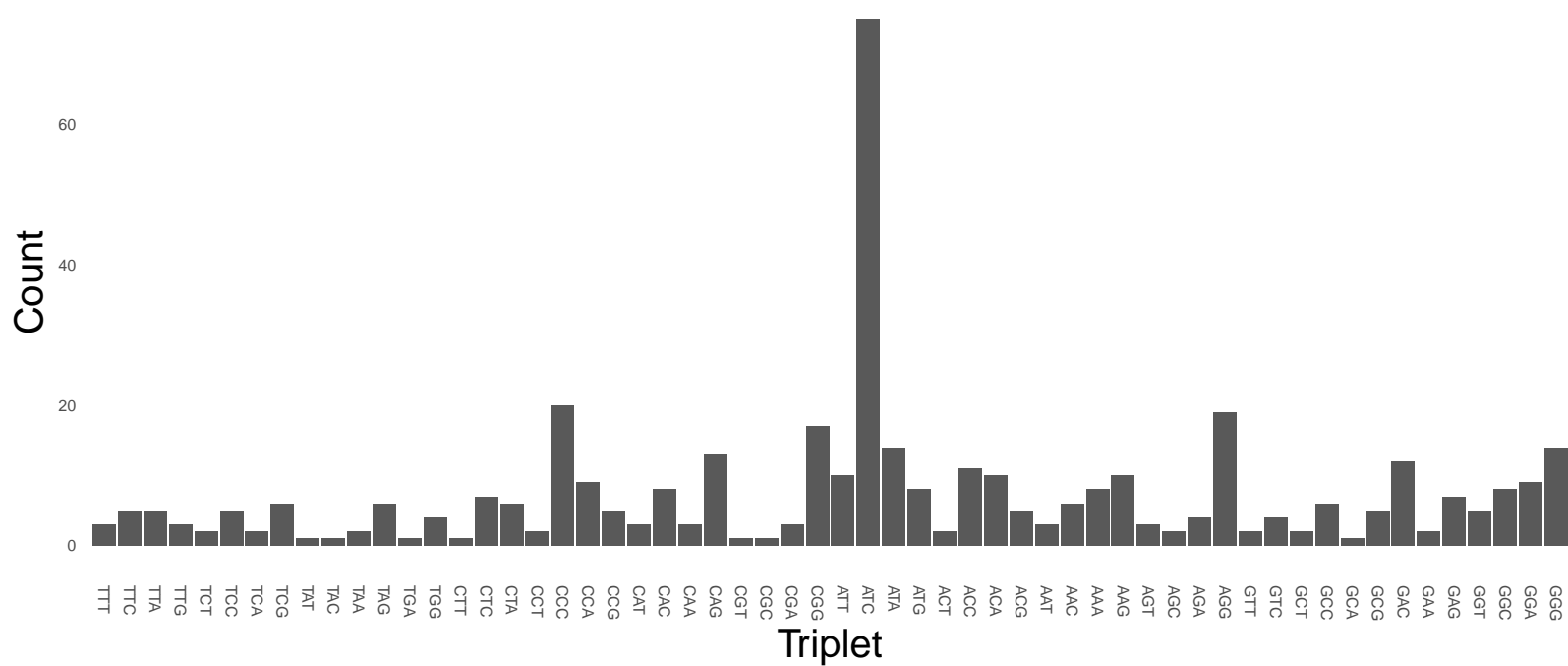
Gene TRBV7-1*ap01_T296C



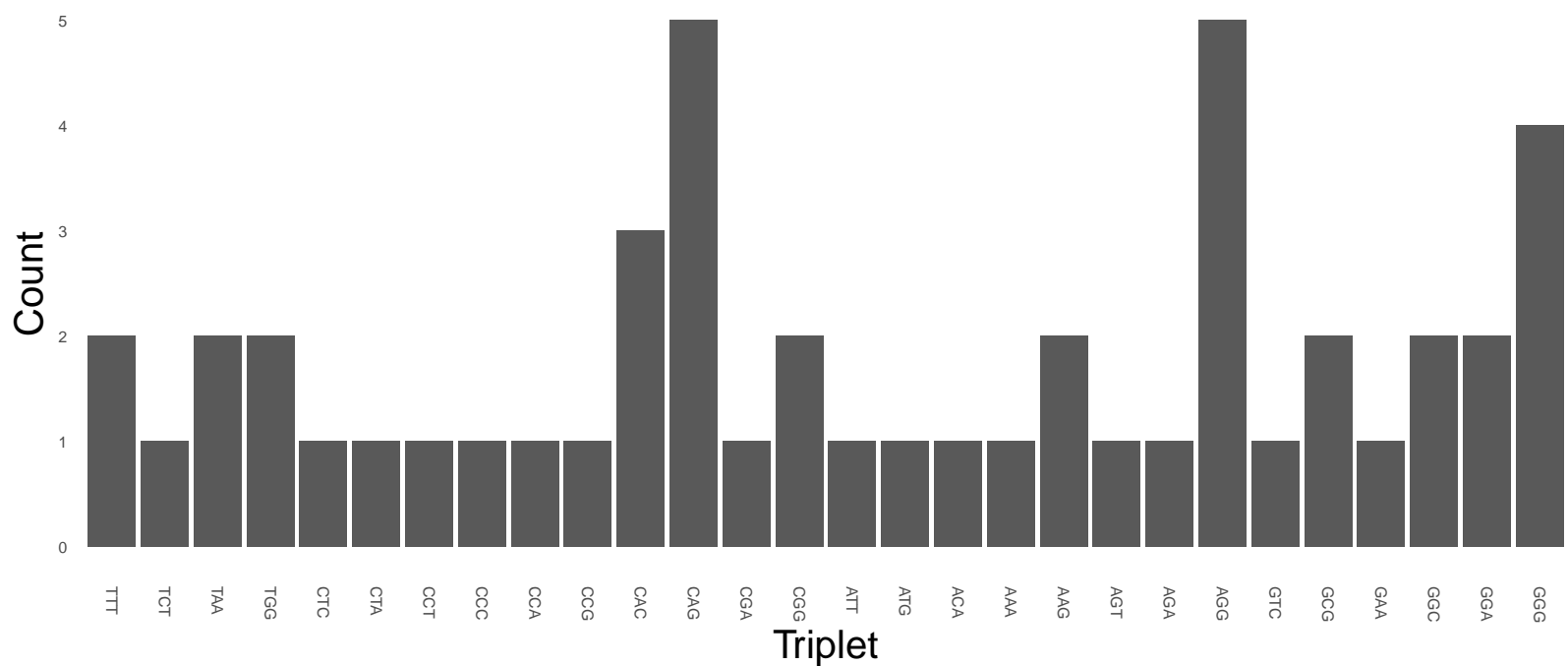
Gene TRBV7-7*ap01_C315T



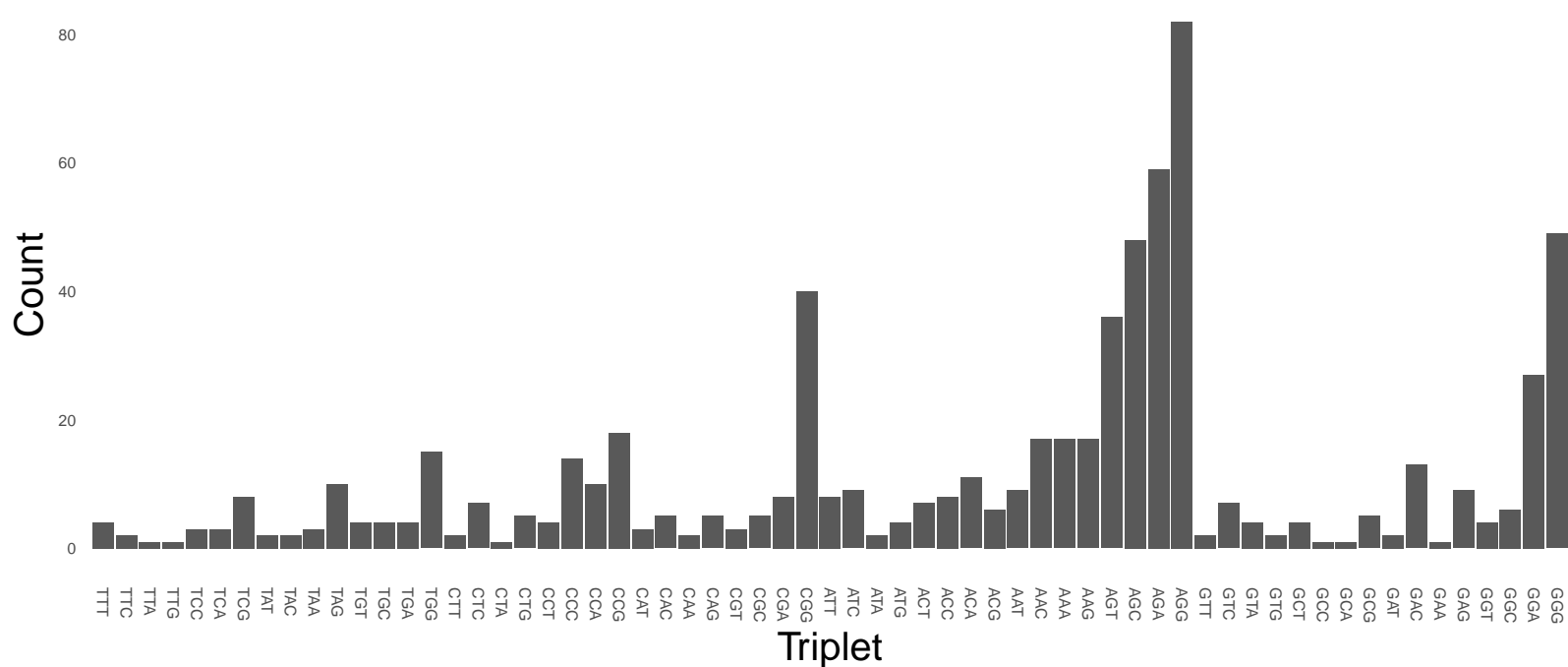
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



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

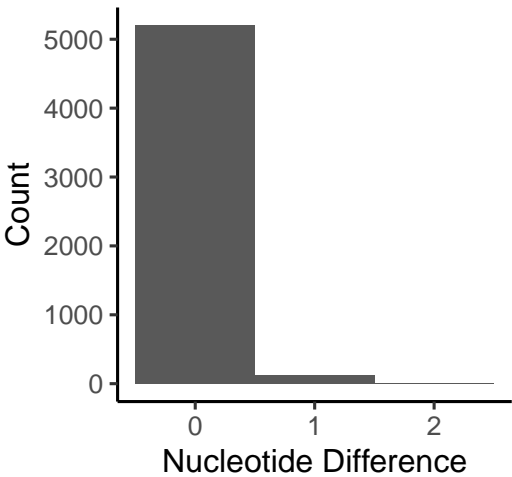


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



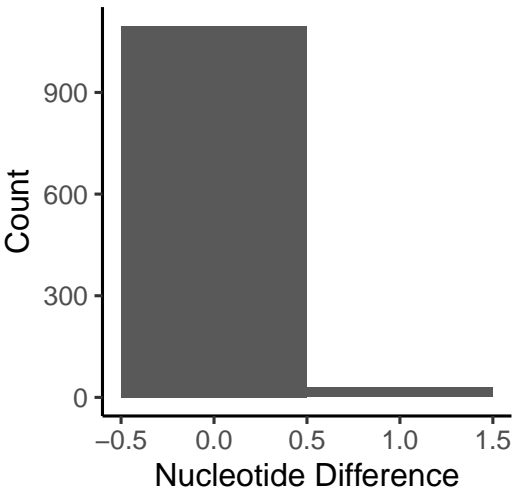
TRBV20-1*ap01

5322 sequences assigned
5201 (97.7%) exact matches, in which:
5158 unique CDR3
13 unique J



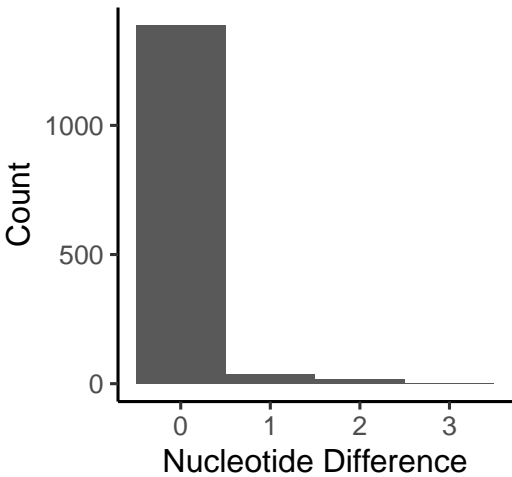
TRBV10-2*ap01

1126 sequences assigned
1097 (97.4%) exact matches, in which:
1086 unique CDR3
13 unique J



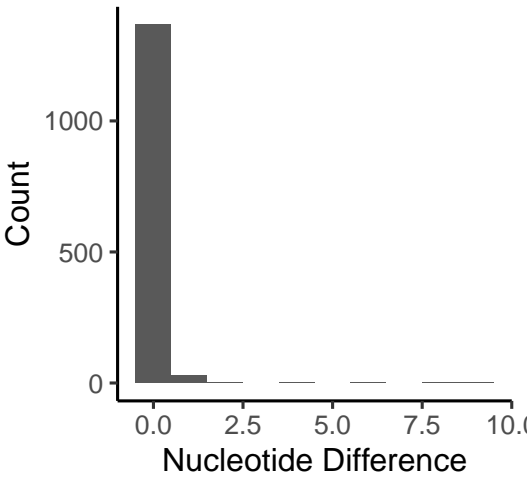
TRBV13*ap01

1442 sequences assigned
1387 (96.2%) exact matches, in which:
1365 unique CDR3
13 unique J



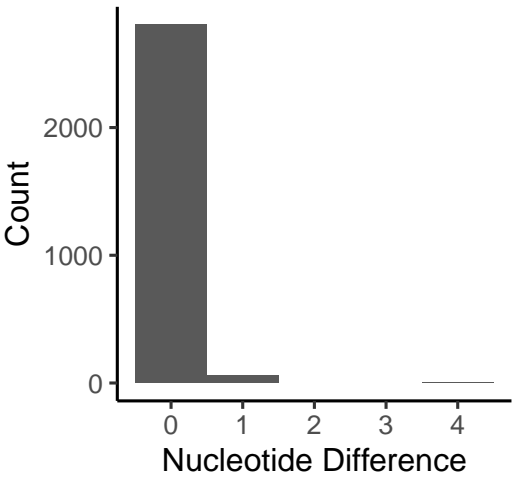
TRBV10-1*ap01

1402 sequences assigned
1367 (97.5%) exact matches, in which:
1361 unique CDR3
13 unique J



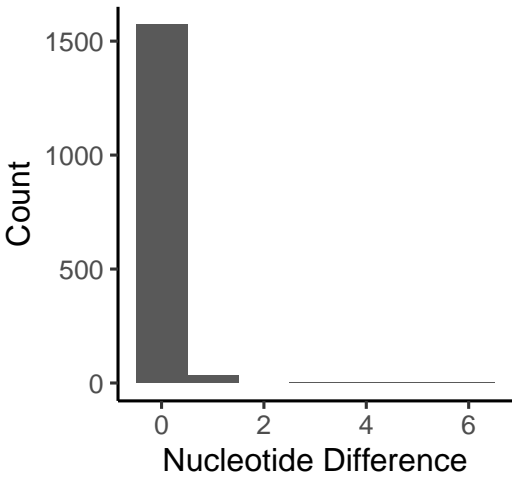
TRBV10-3*ap01

2868 sequences assigned
2805 (97.8%) exact matches, in which:
2778 unique CDR3
13 unique J



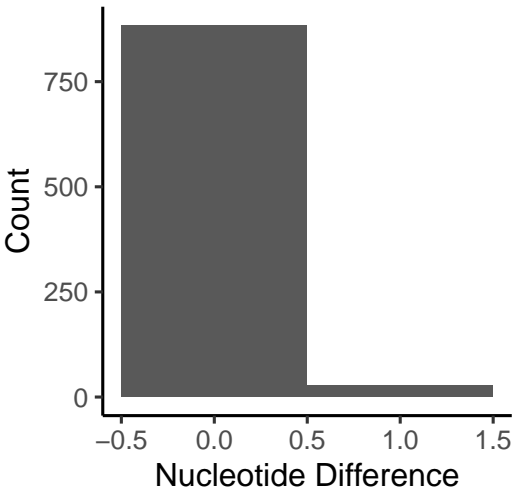
TRBV14*ap01

1609 sequences assigned
1572 (97.7%) exact matches, in which:
1560 unique CDR3
13 unique J



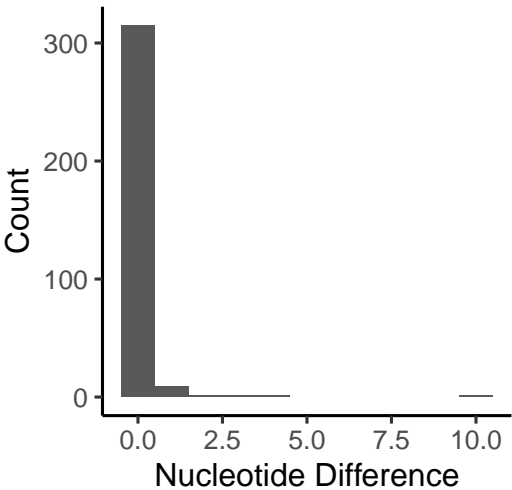
TRBV20-1*ap02

912 sequences assigned
884 (96.9%) exact matches, in which:
873 unique CDR3
13 unique J



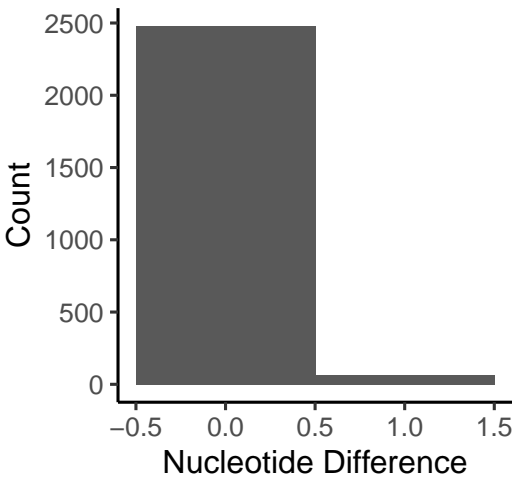
TRBV1*ap01

328 sequences assigned
315 (96%) exact matches, in which:
311 unique CDR3
14 unique J



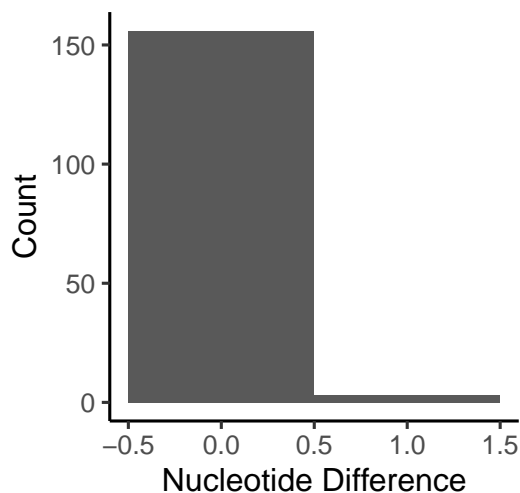
TRBV15*ap02

2545 sequences assigned
2479 (97.4%) exact matches, in which:
2443 unique CDR3
13 unique J



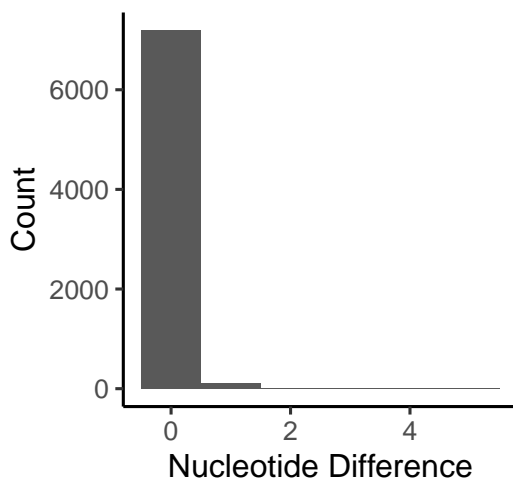
TRBV16*ap01

159 sequences assigned
156 (98.1%) exact matches, in which:
155 unique CDR3
13 unique J



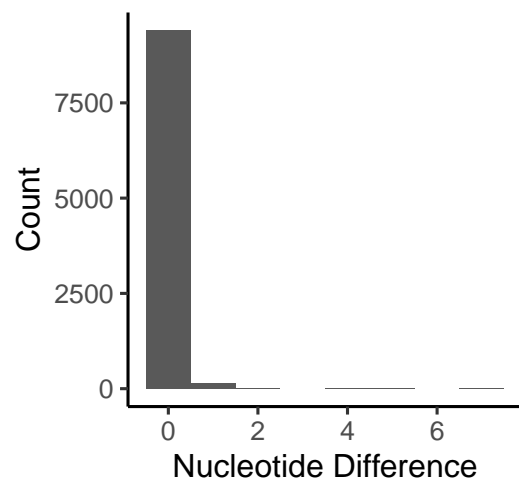
TRBV19*ap01

7302 sequences assigned
7191 (98.5%) exact matches, in which:
7157 unique CDR3
13 unique J



TRBV28*ap01

9554 sequences assigned
9401 (98.4%) exact matches, in which:
9340 unique CDR3
13 unique J



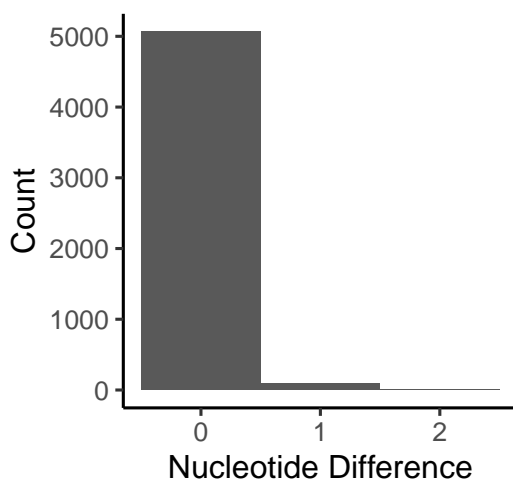
TRBV17*ap01

1 sequences assigned
No exact matches.



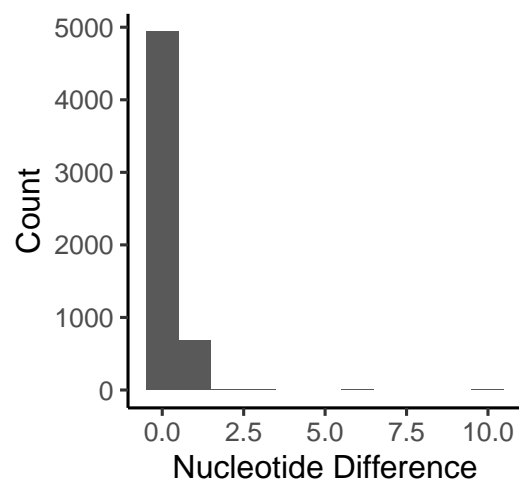
TRBV2*ap01

5165 sequences assigned
5065 (98.1%) exact matches, in which:
5035 unique CDR3
13 unique J



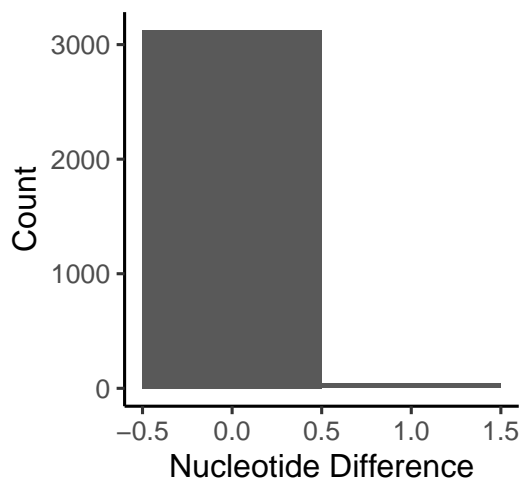
TRBV30*ap01

5631 sequences assigned
4938 (87.7%) exact matches, in which:
4804 unique CDR3
13 unique J



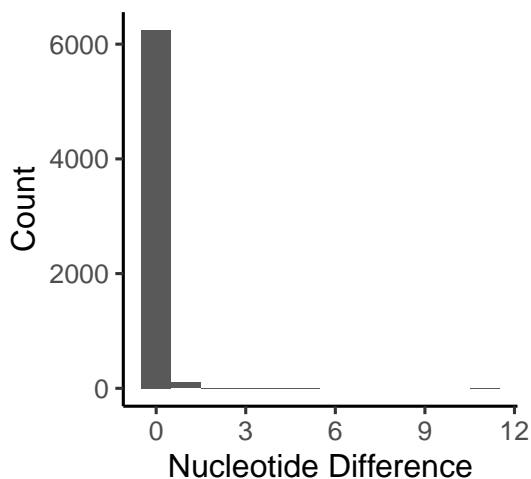
TRBV18*ap01

3168 sequences assigned
3127 (98.7%) exact matches, in which:
3111 unique CDR3
13 unique J



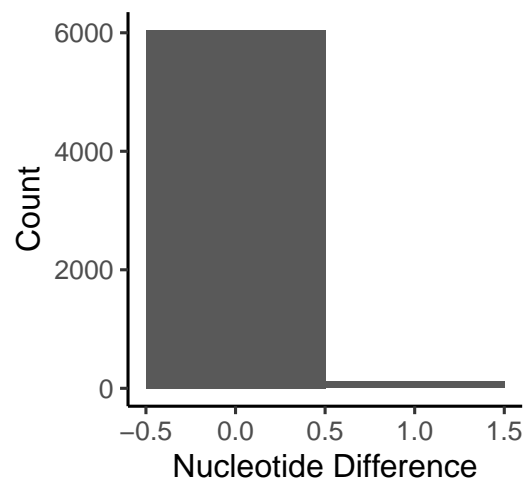
TRBV27*ap01

6358 sequences assigned
6246 (98.2%) exact matches, in which:
6201 unique CDR3
13 unique J



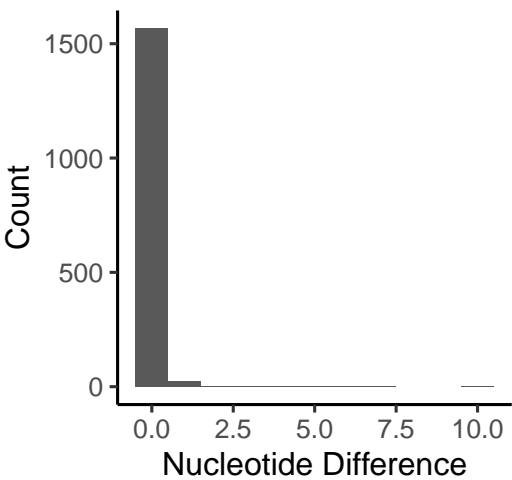
TRBV9*ap01

6161 sequences assigned
6046 (98.1%) exact matches, in which:
6011 unique CDR3
13 unique J



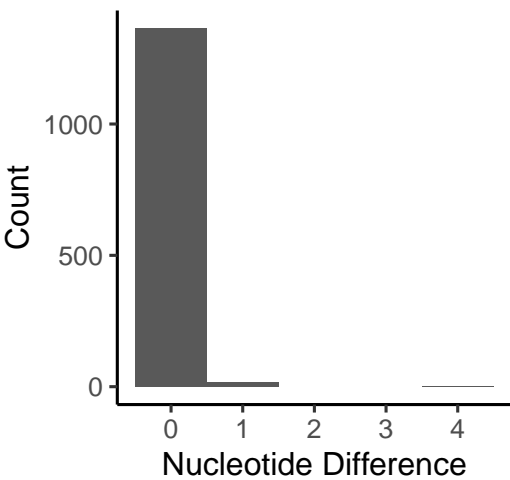
TRBV21-1*ap01

1601 sequences assigned
1567 (97.9%) exact matches, in which:
1551 unique CDR3
13 unique J



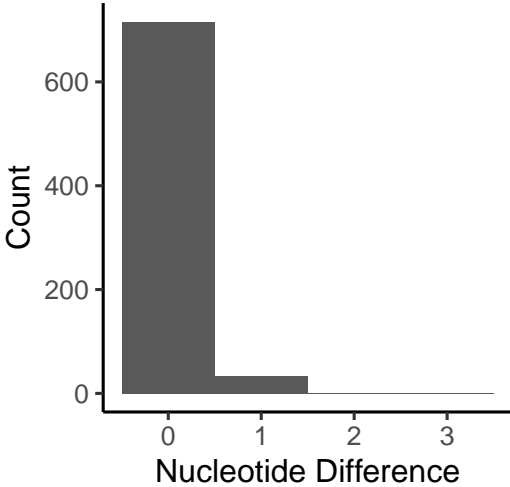
TRBV11-3*ap01

1381 sequences assigned
1364 (98.8%) exact matches, in which:
1360 unique CDR3
13 unique J



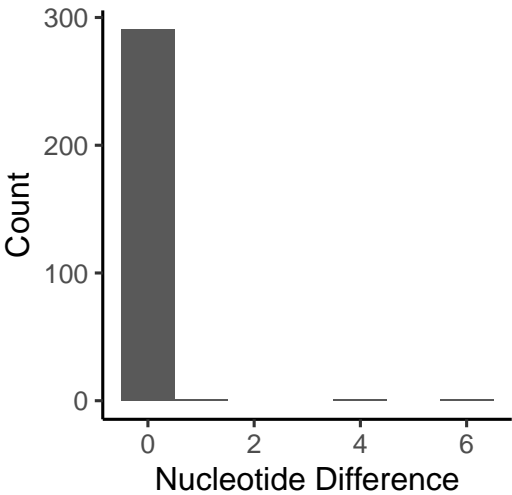
TRBV12-5*ap01

751 sequences assigned
716 (95.3%) exact matches, in which:
711 unique CDR3
13 unique J



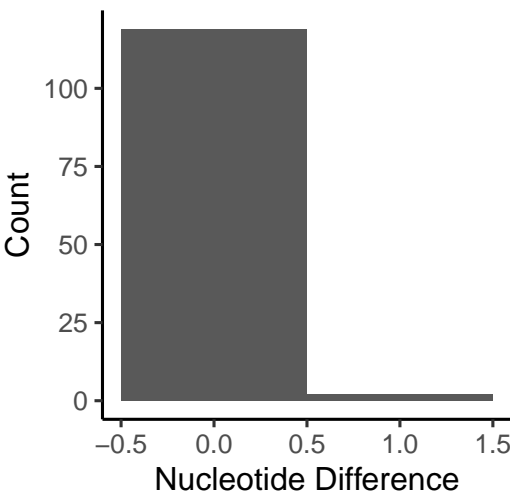
TRBV11-1*ap01

294 sequences assigned
291 (99%) exact matches, in which:
289 unique CDR3
12 unique J



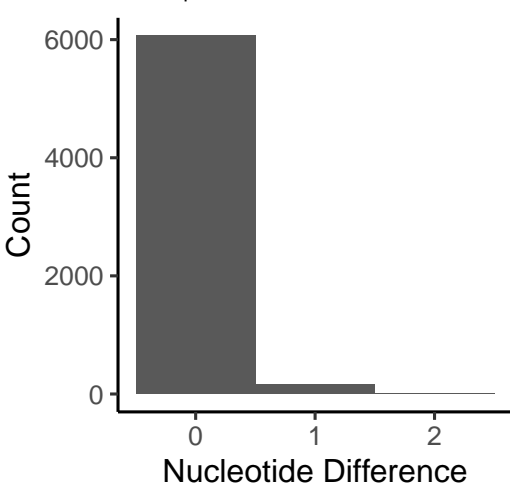
TRBV12-1*ap01

121 sequences assigned
119 (98.3%) exact matches, in which:
117 unique CDR3
13 unique J



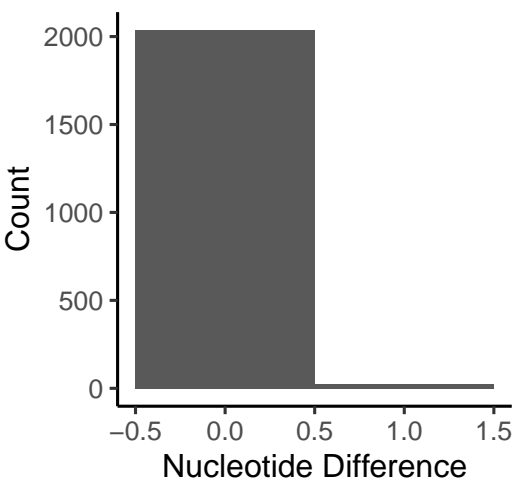
TRBV12-34*ap01

6223 sequences assigned
6066 (97.5%) exact matches, in which:
6016 unique CDR3
13 unique J



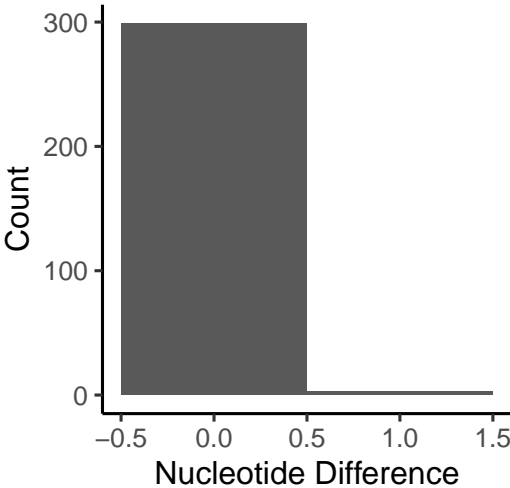
TRBV11-2*ap01

2060 sequences assigned
2037 (98.9%) exact matches, in which:
2026 unique CDR3
13 unique J



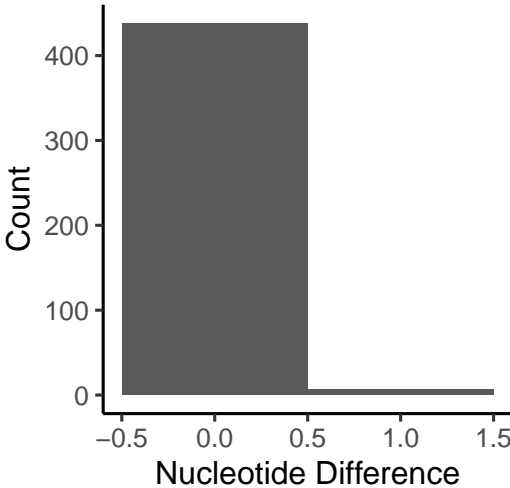
TRBV12-2*ap01

302 sequences assigned
299 (99%) exact matches, in which:
299 unique CDR3
13 unique J



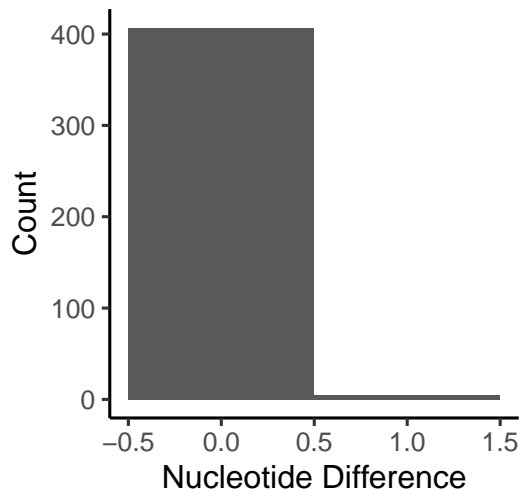
TRBV23-1*ap01

444 sequences assigned
438 (98.6%) exact matches, in which:
434 unique CDR3
13 unique J



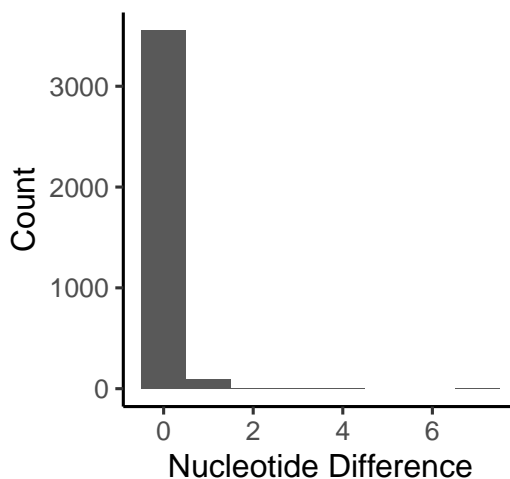
TRBV23–1*ap01_T304C

412 sequences assigned
407 (98.8%) exact matches, in which:
403 unique CDR3
13 unique J



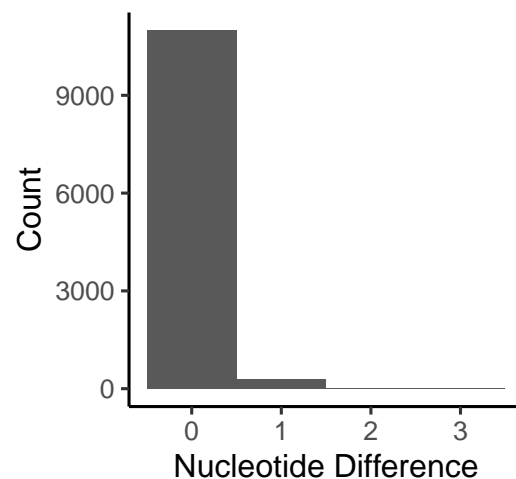
TRBV24–1*ap01

3655 sequences assigned
3554 (97.2%) exact matches, in which:
3513 unique CDR3
13 unique J



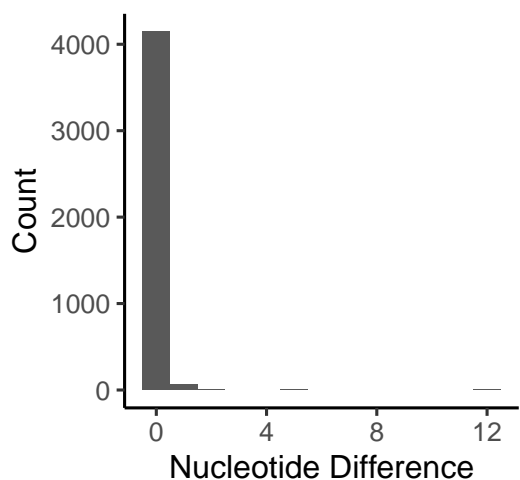
TRBV5–1*ap01

11293 sequences assigned
10991 (97.3%) exact matches, in which:
10898 unique CDR3
13 unique J



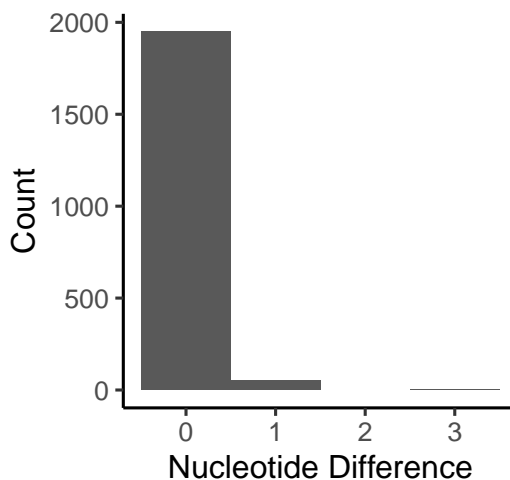
TRBV3–12*ap01

4210 sequences assigned
4145 (98.5%) exact matches, in which:
4126 unique CDR3
13 unique J



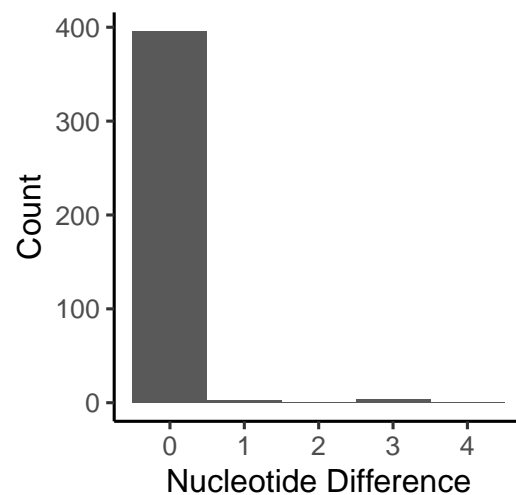
TRBV4–2*ap01

1999 sequences assigned
1949 (97.5%) exact matches, in which:
1931 unique CDR3
13 unique J



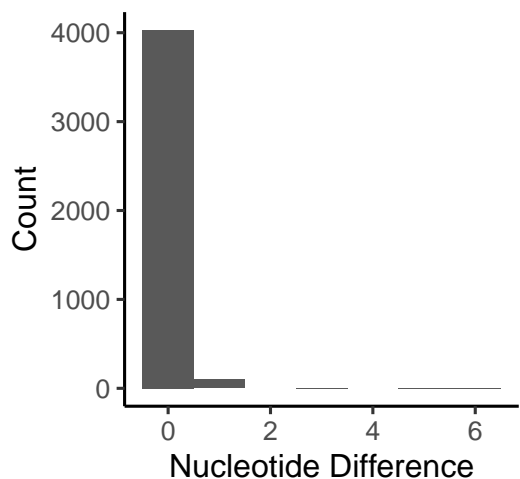
TRBV5–3*ap01

405 sequences assigned
396 (97.8%) exact matches, in which:
391 unique CDR3
13 unique J



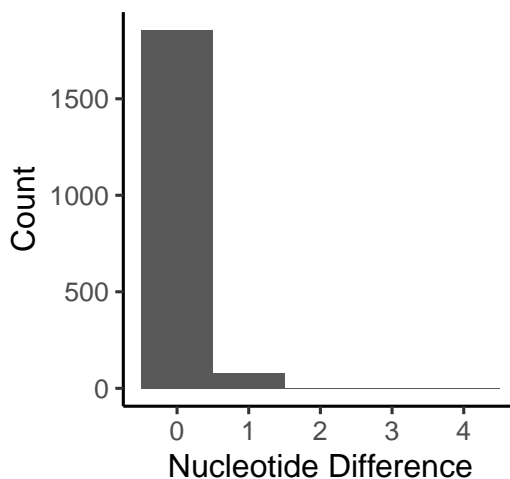
TRBV4–1*ap01

4134 sequences assigned
4030 (97.5%) exact matches, in which:
3974 unique CDR3
13 unique J



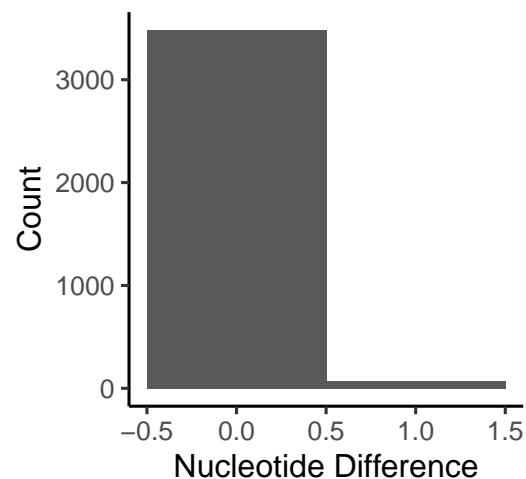
TRBV25–1*ap01

1942 sequences assigned
1856 (95.6%) exact matches, in which:
1832 unique CDR3
13 unique J



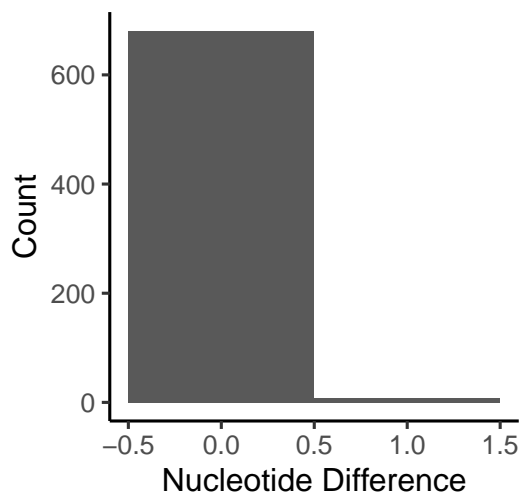
TRBV5–4*ap01

3553 sequences assigned
3483 (98%) exact matches, in which:
3447 unique CDR3
13 unique J



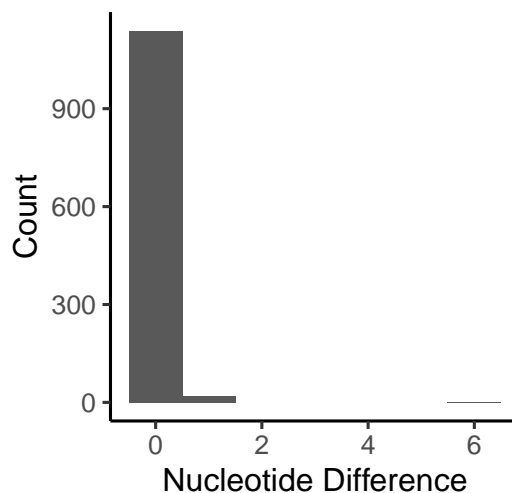
TRBV5-5*ap01

689 sequences assigned
681 (98.8%) exact matches, in which:
680 unique CDR3
13 unique J



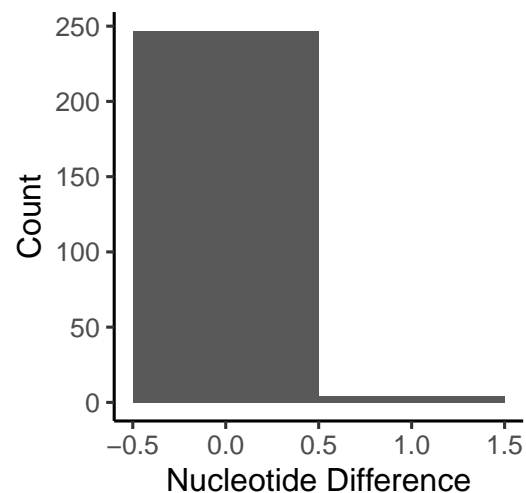
TRBV5-8*ap01

1160 sequences assigned
1139 (98.2%) exact matches, in which:
1128 unique CDR3
13 unique J



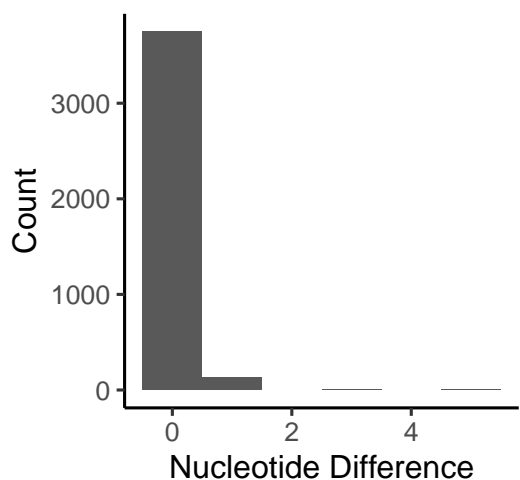
TRBV6-7*ap01

251 sequences assigned
247 (98.4%) exact matches, in which:
245 unique CDR3
13 unique J



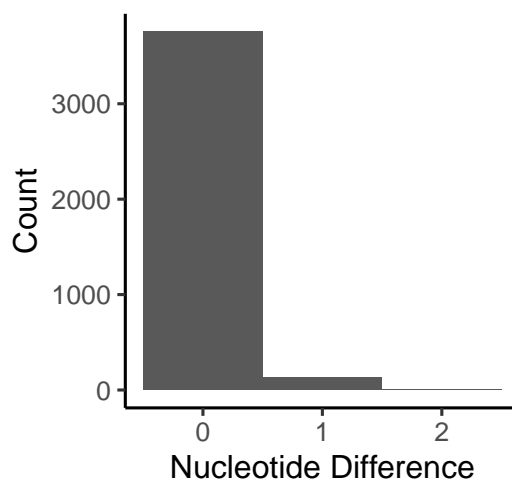
TRBV5-6*ap01

3885 sequences assigned
3748 (96.5%) exact matches, in which:
3691 unique CDR3
13 unique J



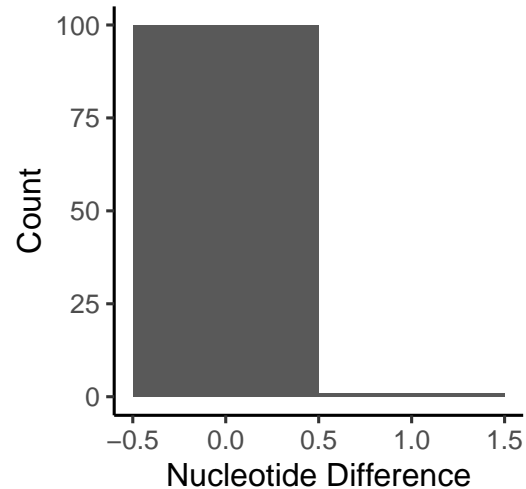
TRBV6-1*ap01

3892 sequences assigned
3755 (96.5%) exact matches, in which:
3718 unique CDR3
13 unique J



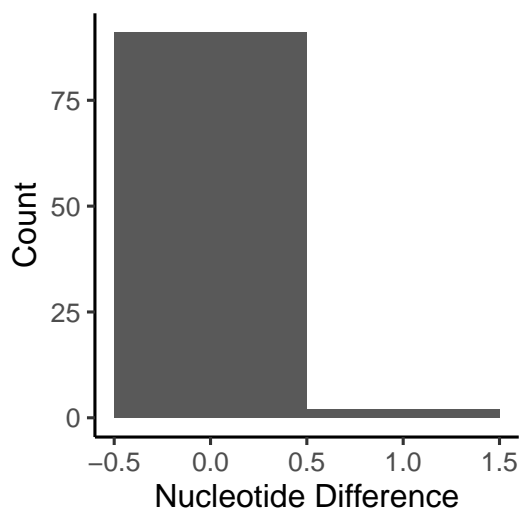
TRBV6-8*ap01

101 sequences assigned
100 (99%) exact matches, in which:
96 unique CDR3
13 unique J



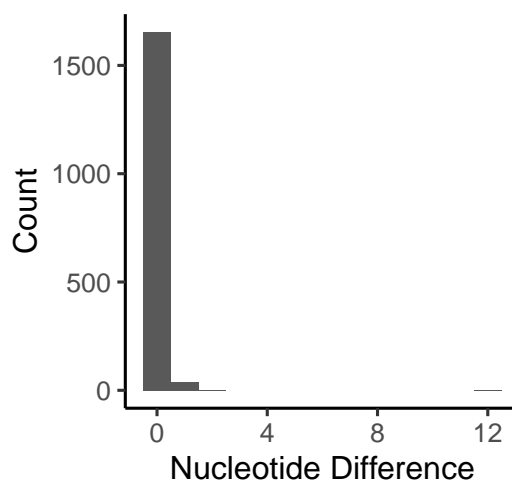
TRBV5-7*ap01

93 sequences assigned
91 (97.8%) exact matches, in which:
91 unique CDR3
12 unique J



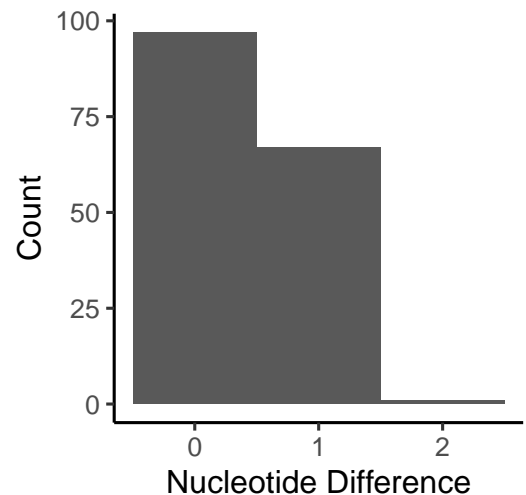
TRBV6-4*ap01

1694 sequences assigned
1654 (97.6%) exact matches, in which:
1646 unique CDR3
13 unique J



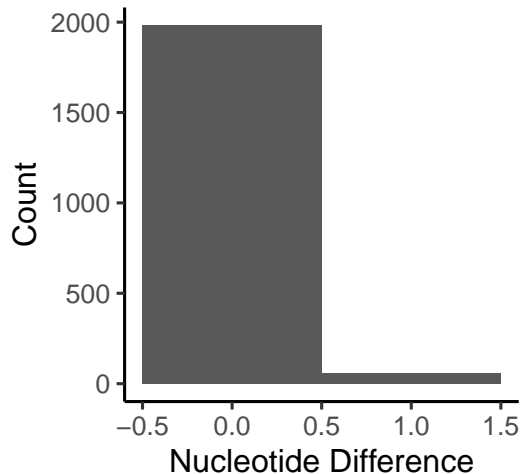
TRBV6-9*ap01

165 sequences assigned
97 (58.8%) exact matches, in which:
94 unique CDR3
13 unique J



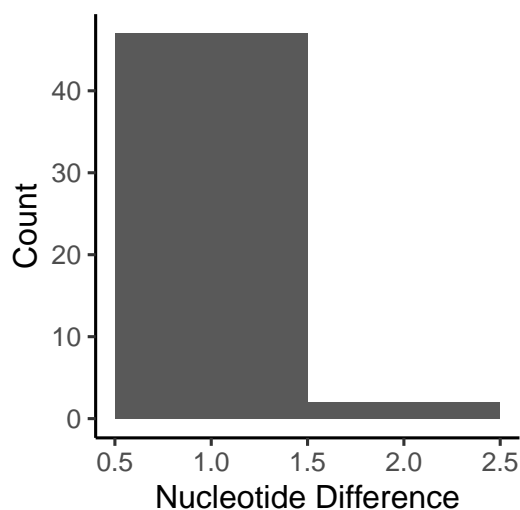
TRBV6-23*ap01

2038 sequences assigned
1982 (97.3%) exact matches, in which:
1959 unique CDR3
13 unique J



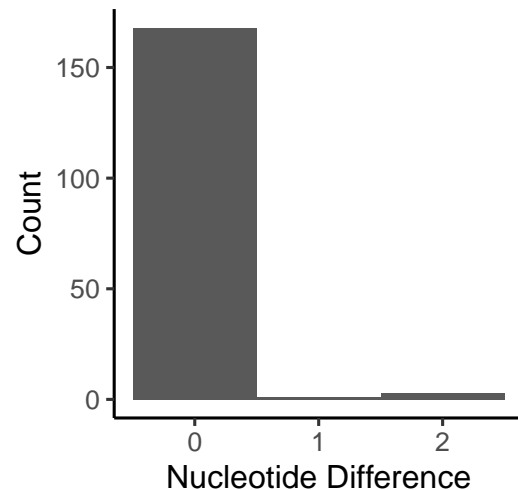
TRBV7-1*ap01_T296C

49 sequences assigned
No exact matches.



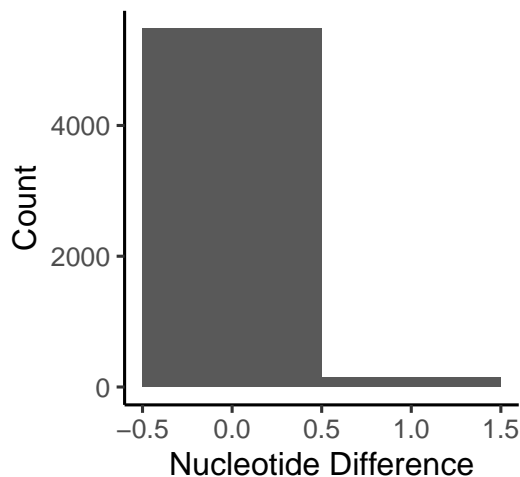
TRBV7-4*ap01

172 sequences assigned
168 (97.7%) exact matches, in which:
168 unique CDR3
13 unique J



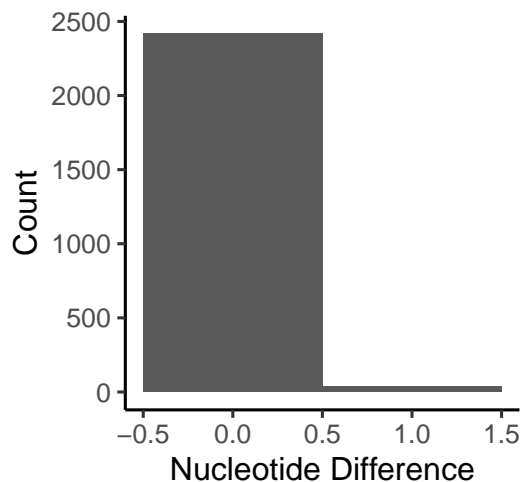
TRBV6-56*ap01

5620 sequences assigned
5480 (97.5%) exact matches, in which:
5397 unique CDR3
13 unique J



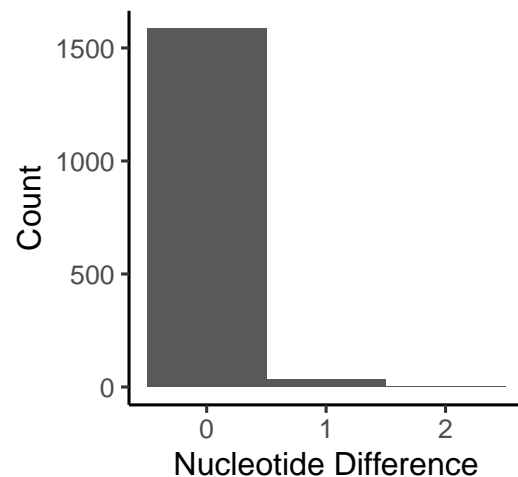
TRBV7-2*ap01

2451 sequences assigned
2417 (98.6%) exact matches, in which:
2399 unique CDR3
13 unique J



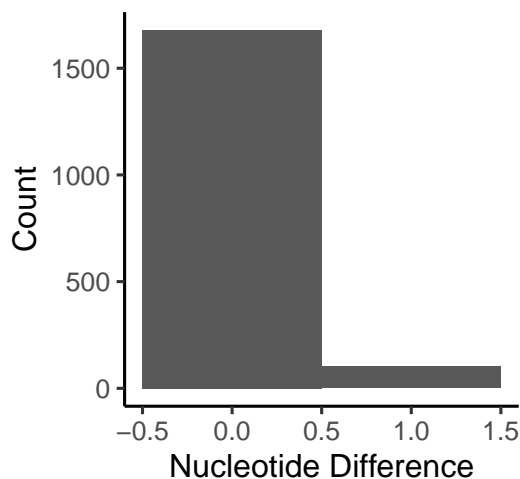
TRBV7-6*ap01

1617 sequences assigned
1585 (98%) exact matches, in which:
1569 unique CDR3
13 unique J



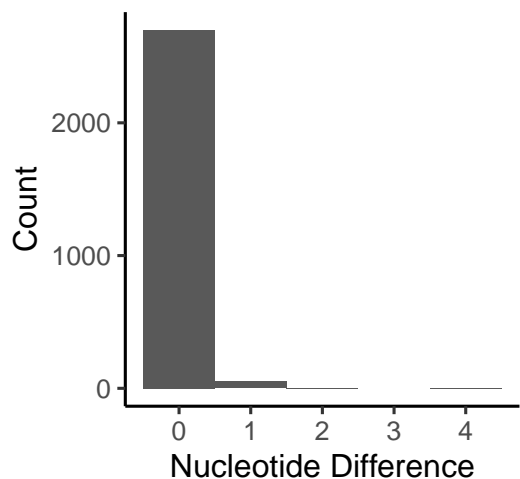
TRBV6-56*ap02

1781 sequences assigned
1679 (94.3%) exact matches, in which:
1655 unique CDR3
13 unique J



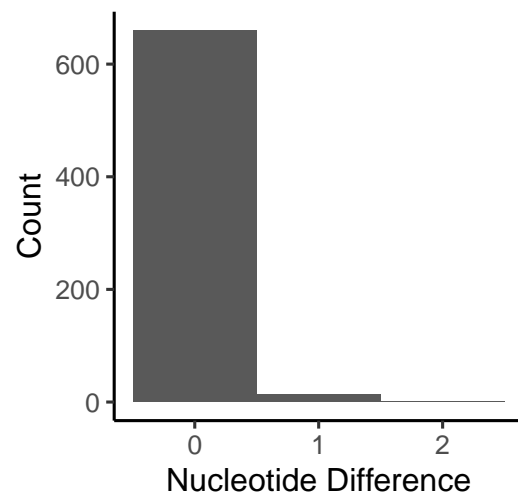
TRBV7-3*ap01

2754 sequences assigned
2699 (98%) exact matches, in which:
2686 unique CDR3
13 unique J



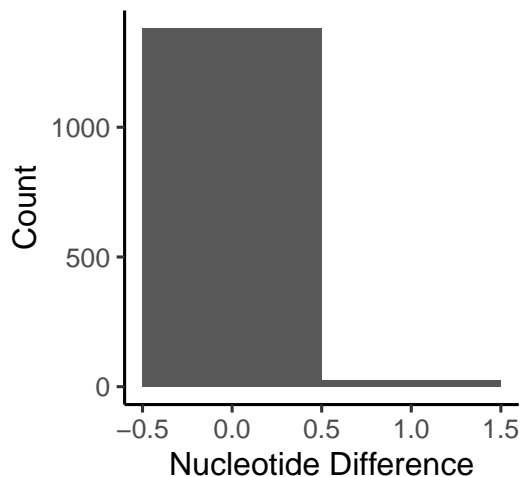
TRBV7-7*ap01_C315T

675 sequences assigned
660 (97.8%) exact matches, in which:
655 unique CDR3
13 unique J



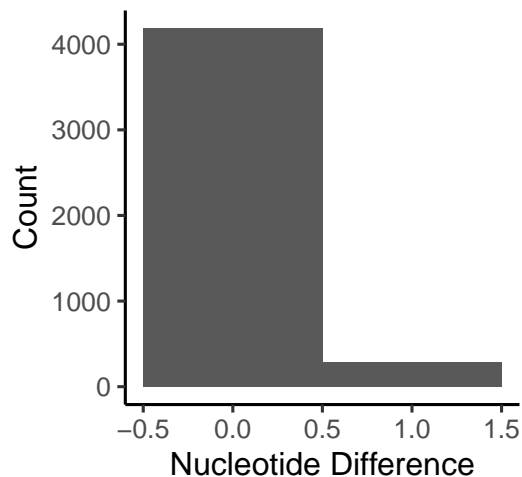
TRBV7-8*ap01

1407 sequences assigned
1381 (98.2%) exact matches, in which:
1376 unique CDR3
13 unique J



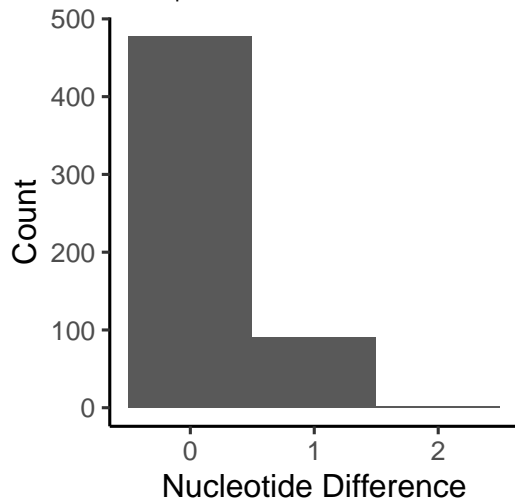
TRBV29-1*ap01

4471 sequences assigned
4185 (93.6%) exact matches, in which:
4117 unique CDR3
13 unique J



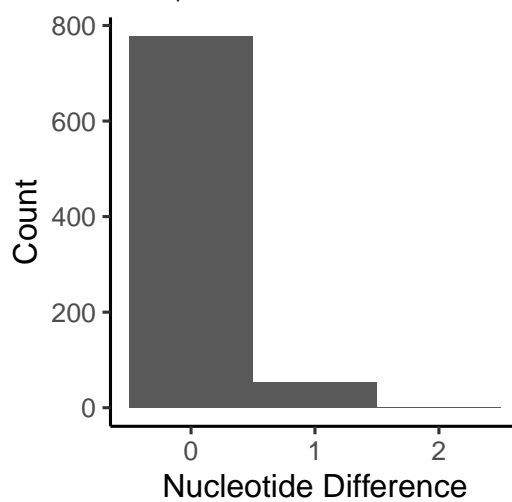
TRBV7-8*ap03

571 sequences assigned
478 (83.7%) exact matches, in which:
472 unique CDR3
13 unique J



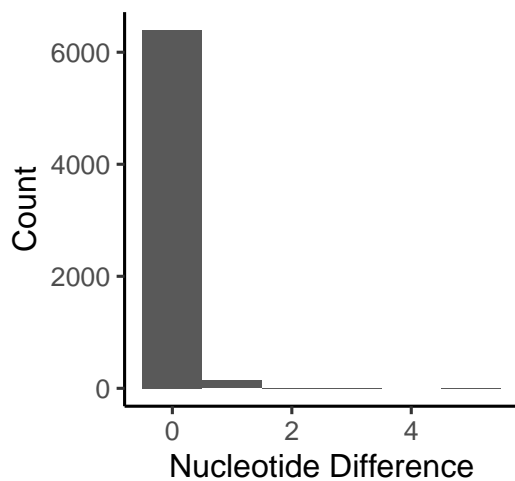
TRBV29-1*ap02

832 sequences assigned
778 (93.5%) exact matches, in which:
768 unique CDR3
13 unique J

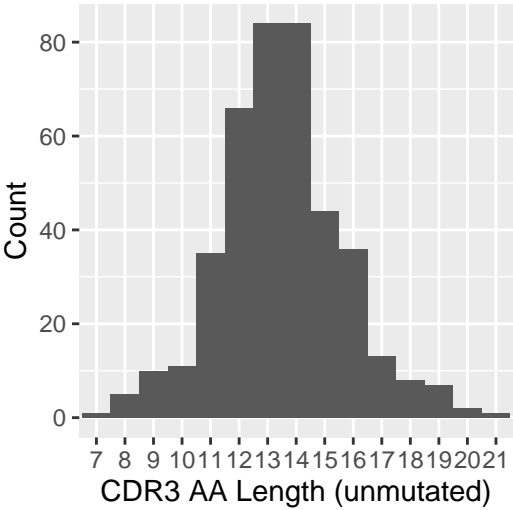


TRBV7-9*ap01

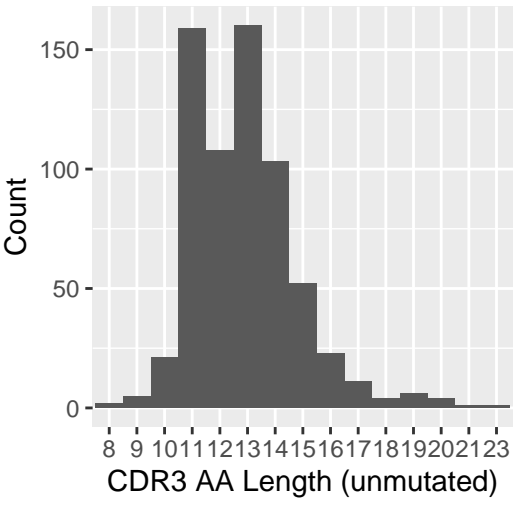
6538 sequences assigned
6396 (97.8%) exact matches, in which:
6353 unique CDR3
13 unique J



TRBV23-1*ap01_T304C



TRBV7-7*ap01_C315T





[illegible]