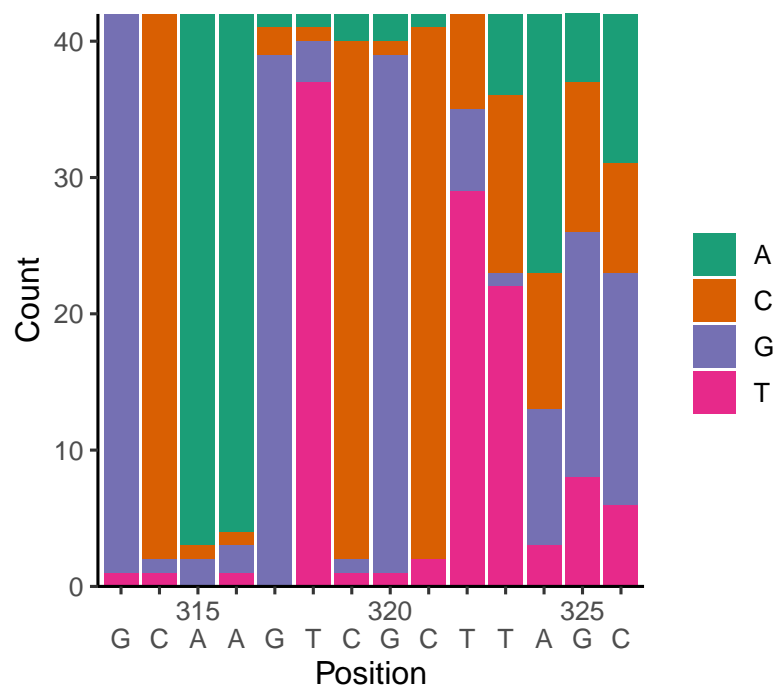
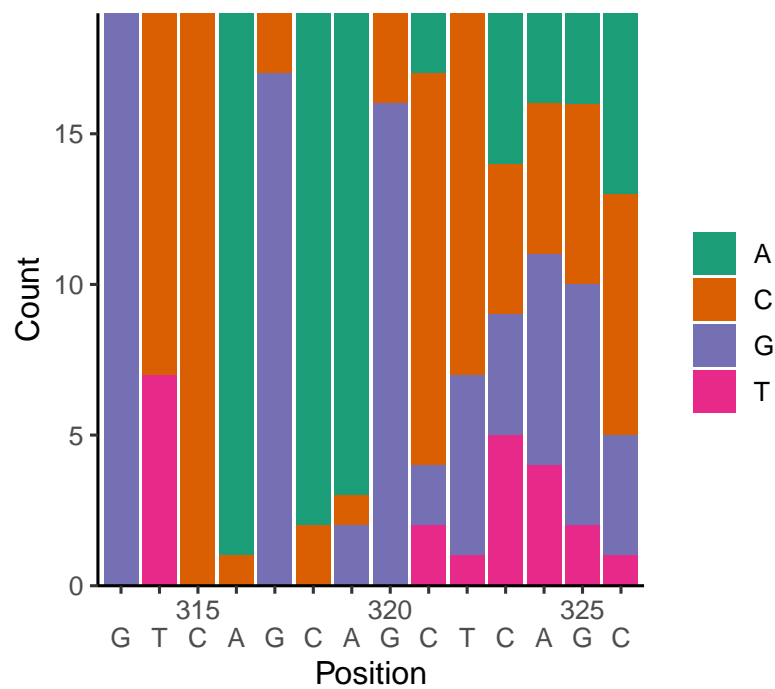


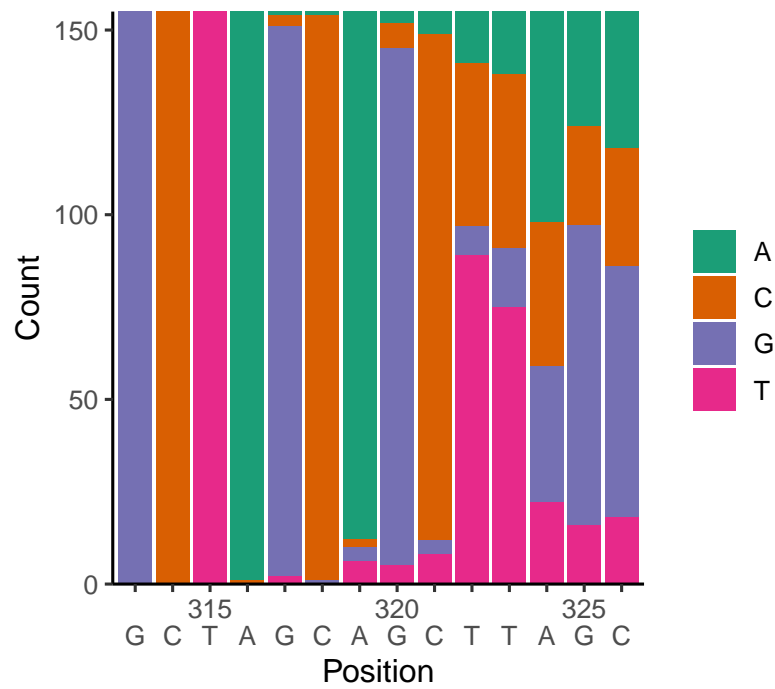
Gene TRBV12-2*ap01_G301A



Gene TRBV7-1*ap01_G291C_T296C_C314T



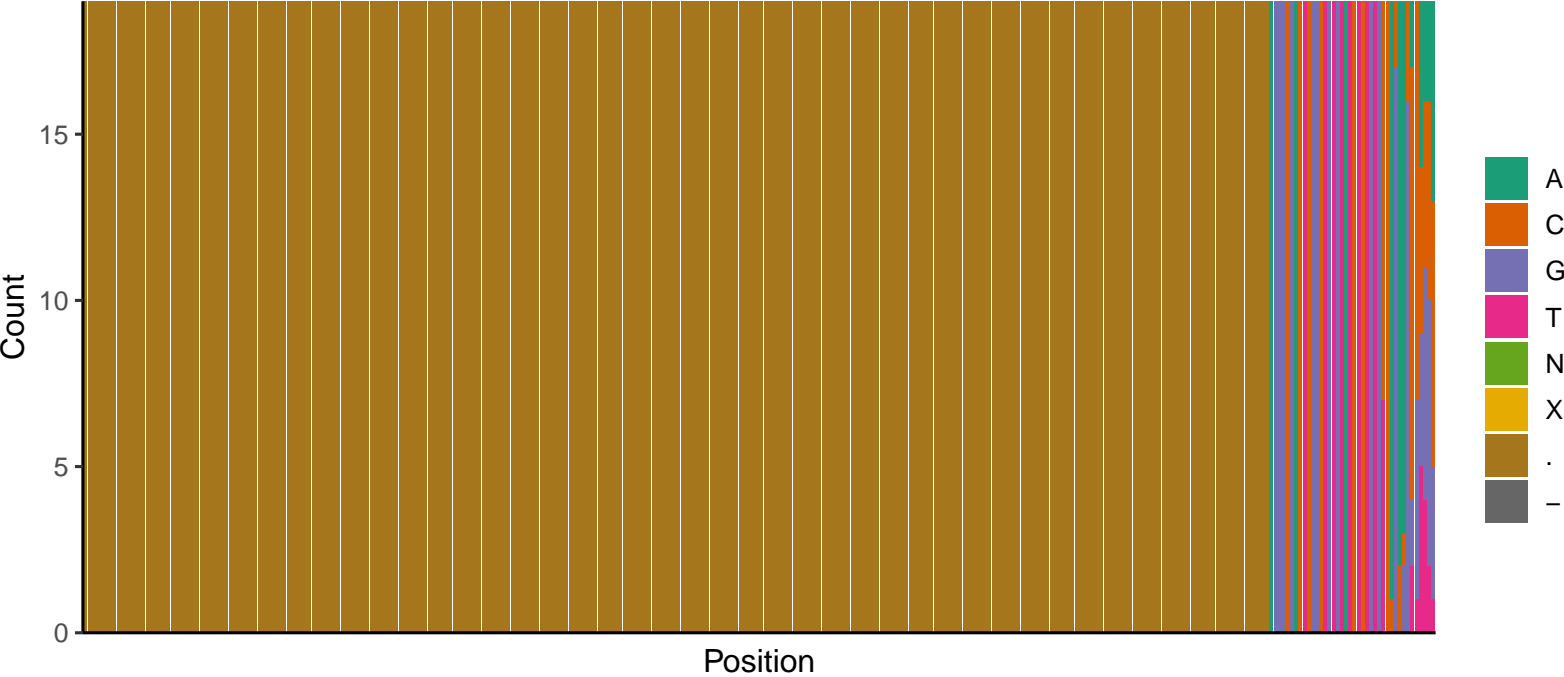
Gene TRBV7-7*ap01_C315T



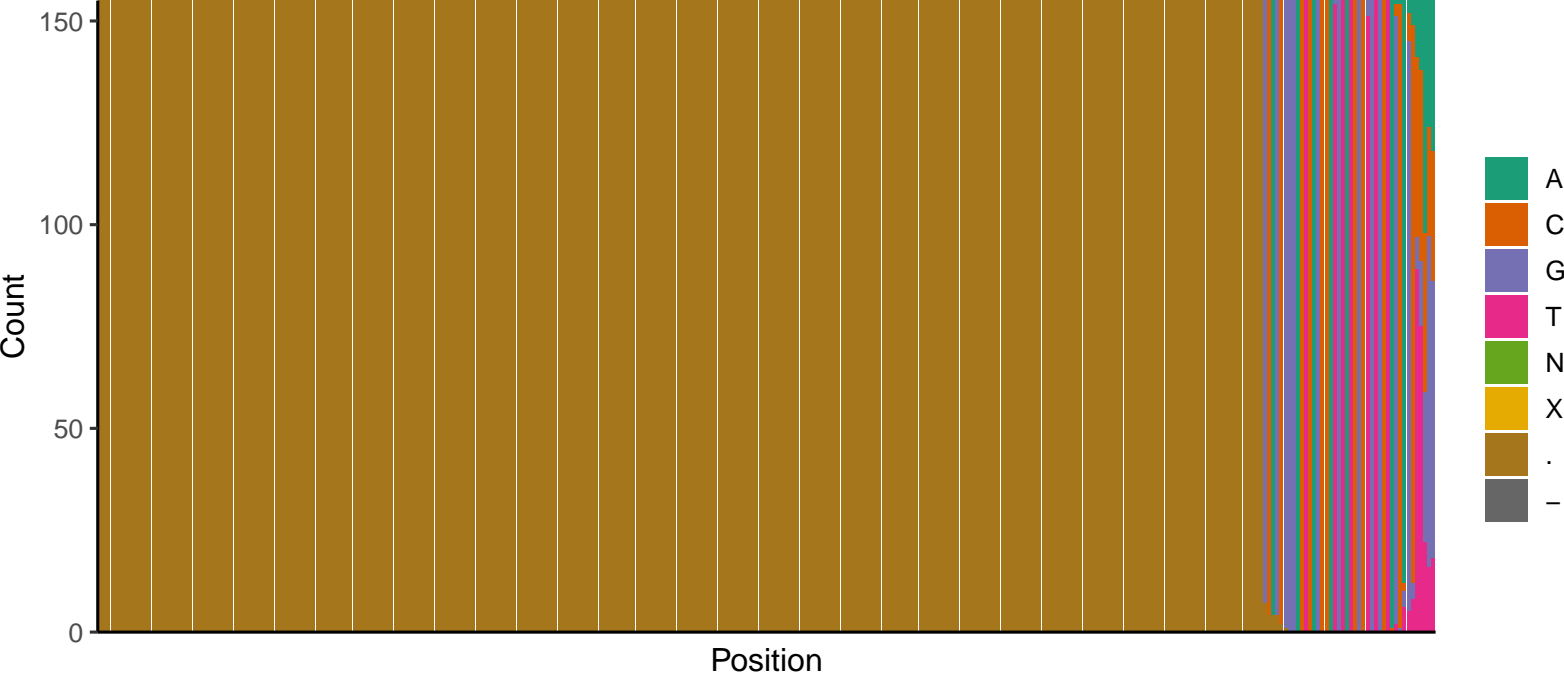
Gene TRBV12-2*ap01_G301A



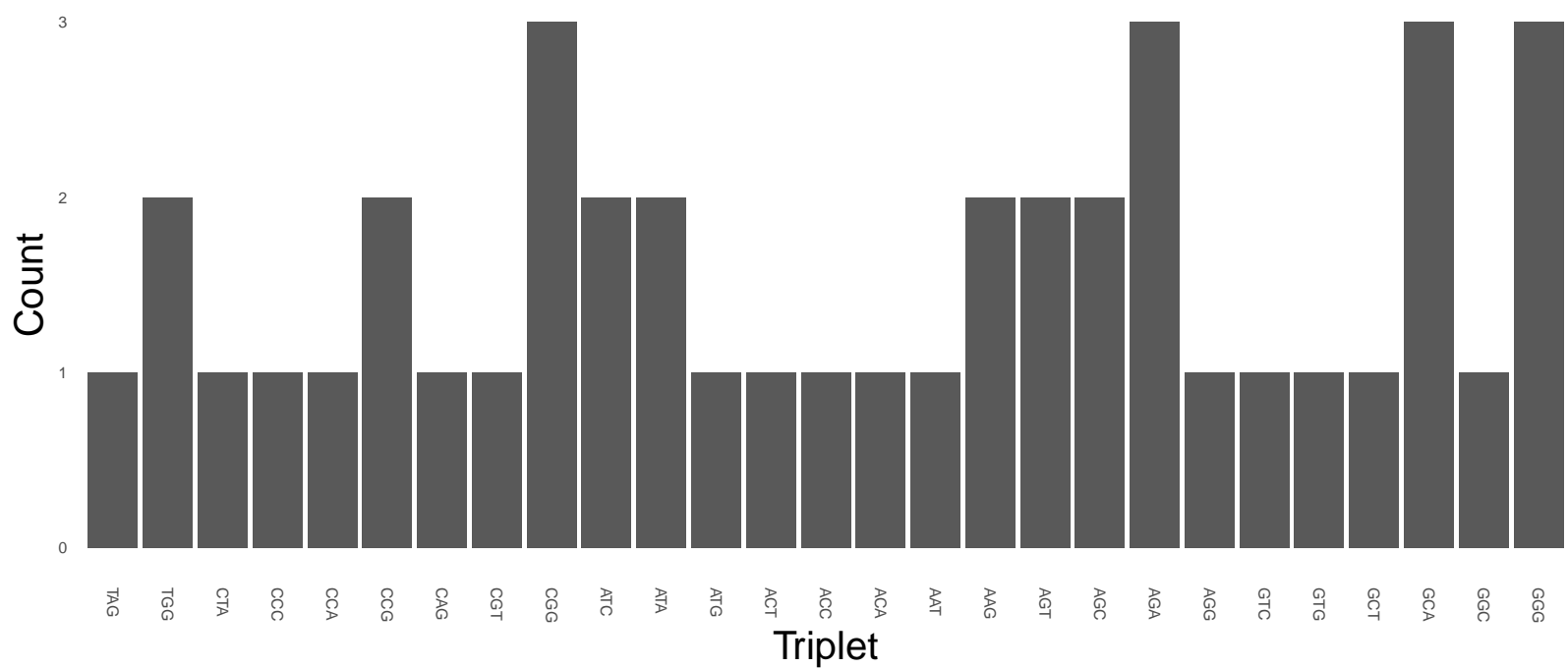
Gene TRBV7-1*ap01_G291C_T296C_C314T



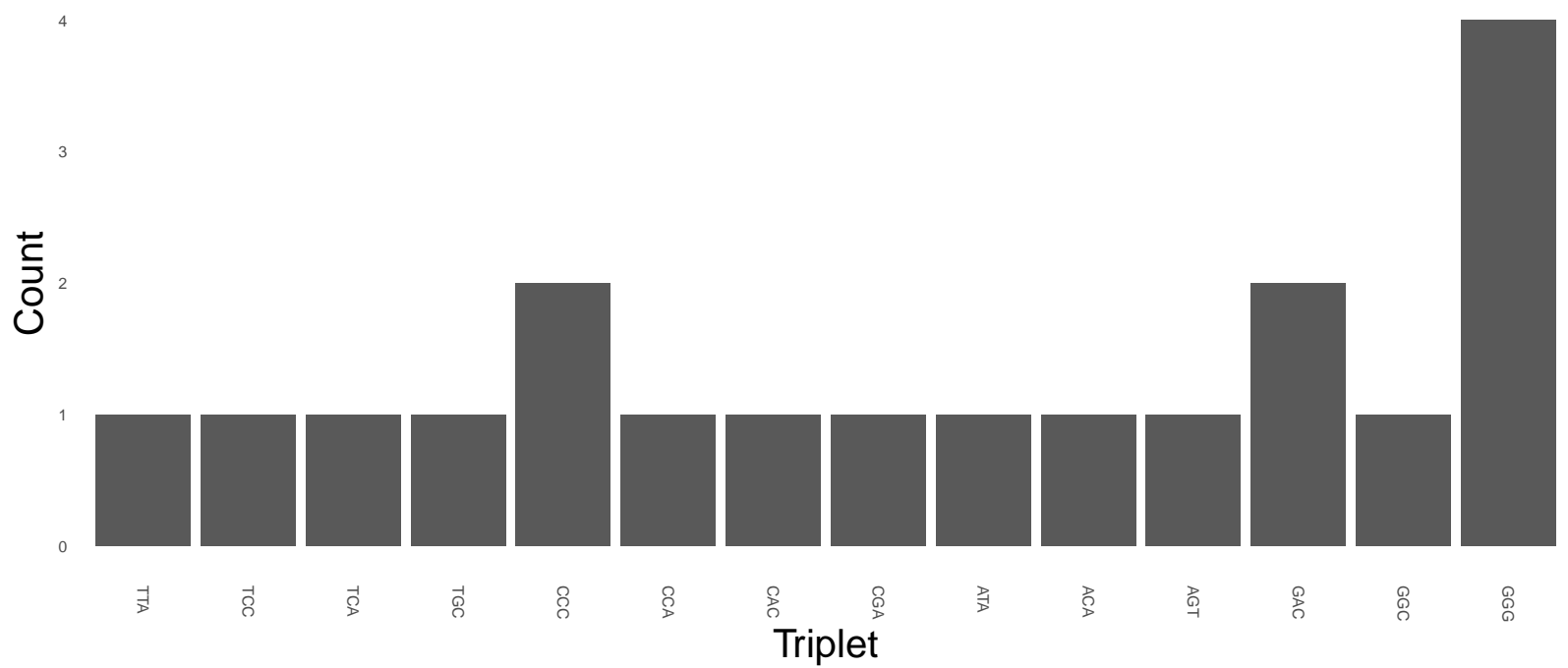
Gene TRBV7-7*ap01_C315T



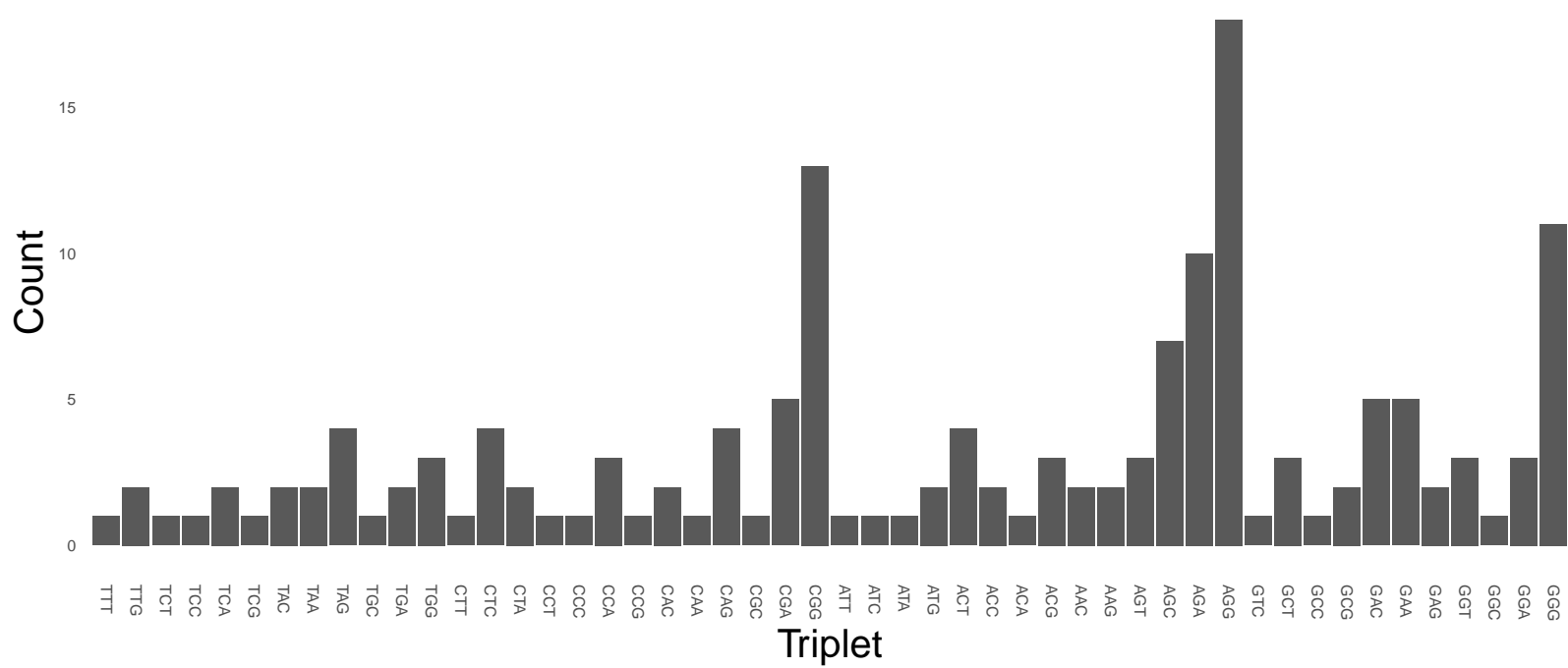
TRBV12-2*ap01_G301A- Final 3 nucleotides as a triplet



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

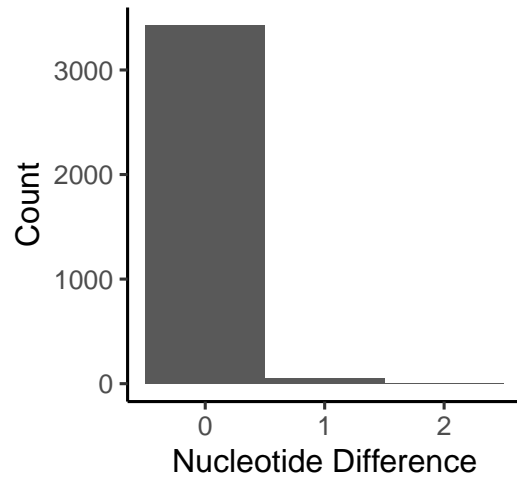


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



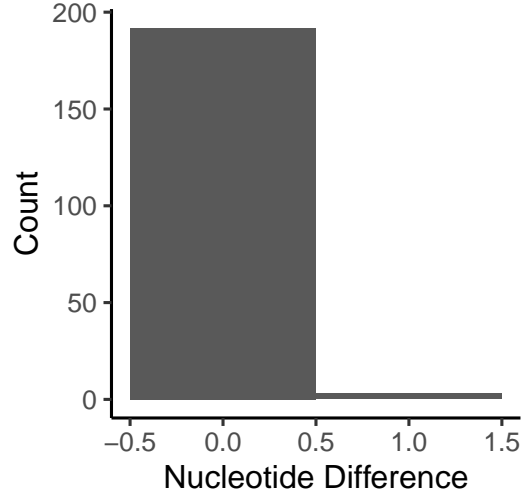
TRBV20-1*ap01

3475 sequences assigned
3426 (98.6%) exact matches, in which:
3366 unique CDR3
13 unique J



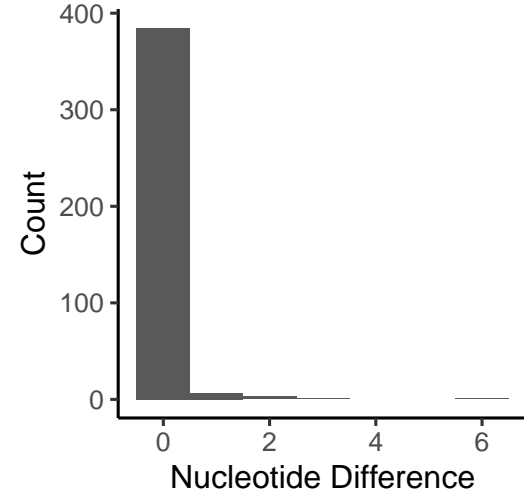
TRBV10-2*ap01

195 sequences assigned
192 (98.5%) exact matches, in which:
191 unique CDR3
13 unique J



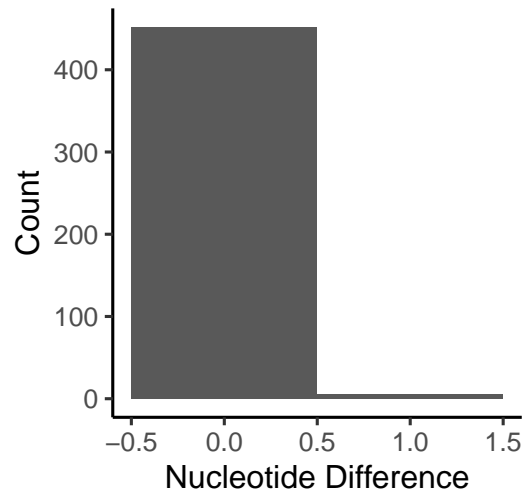
TRBV13*ap01

397 sequences assigned
385 (97%) exact matches, in which:
379 unique CDR3
13 unique J



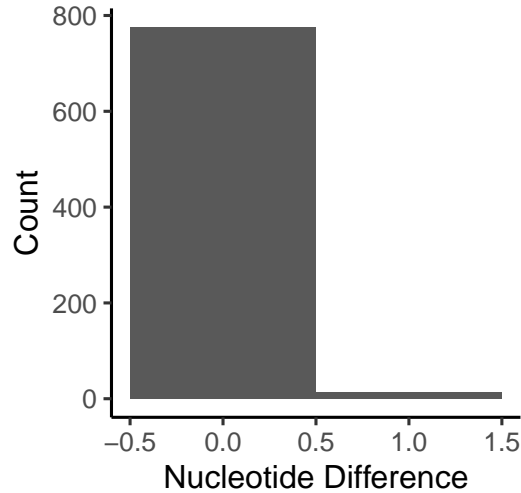
TRBV10-1*ap01

457 sequences assigned
452 (98.9%) exact matches, in which:
447 unique CDR3
13 unique J



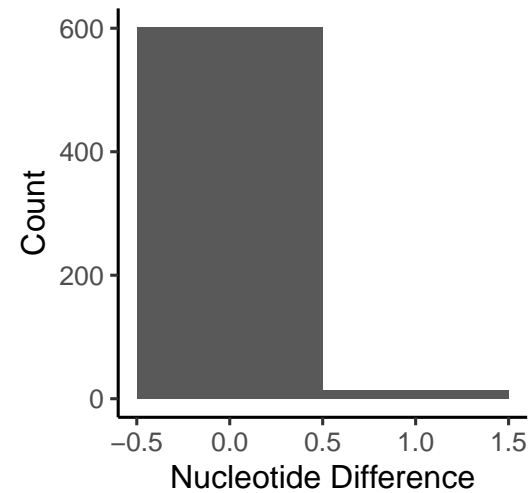
TRBV10-3*ap01

790 sequences assigned
776 (98.2%) exact matches, in which:
770 unique CDR3
13 unique J



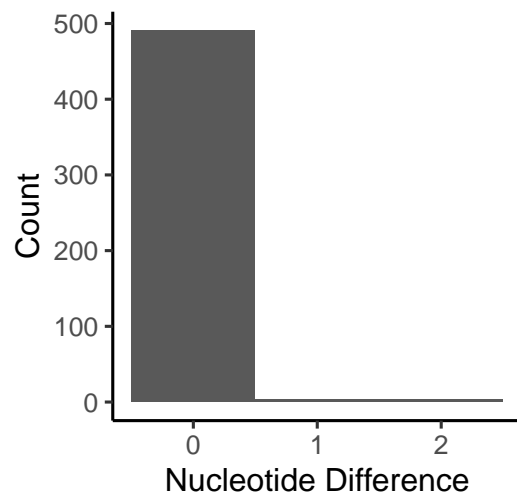
TRBV14*ap01

615 sequences assigned
602 (97.9%) exact matches, in which:
593 unique CDR3
13 unique J



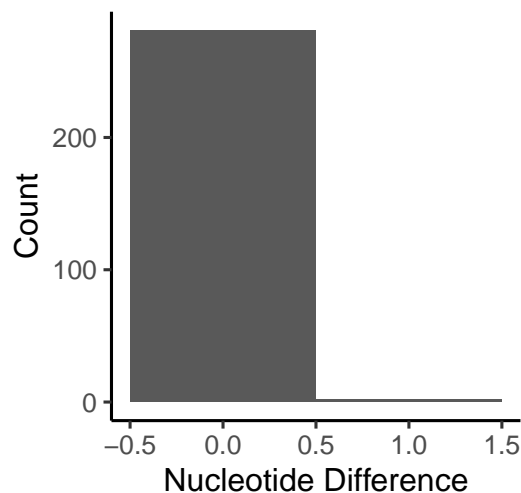
TRBV20-1*ap02

497 sequences assigned
491 (98.8%) exact matches, in which:
477 unique CDR3
13 unique J



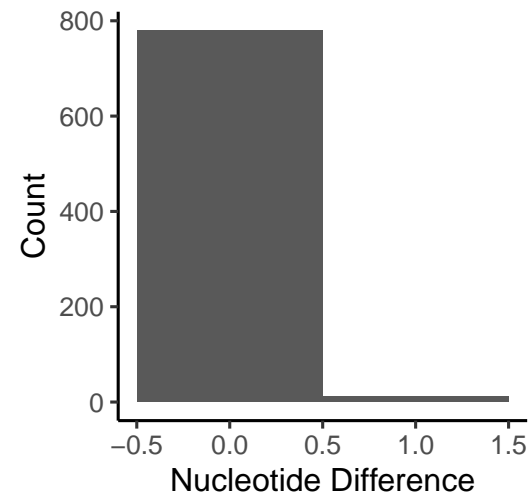
TRBV1*ap01

283 sequences assigned
281 (99.3%) exact matches, in which:
278 unique CDR3
11 unique J



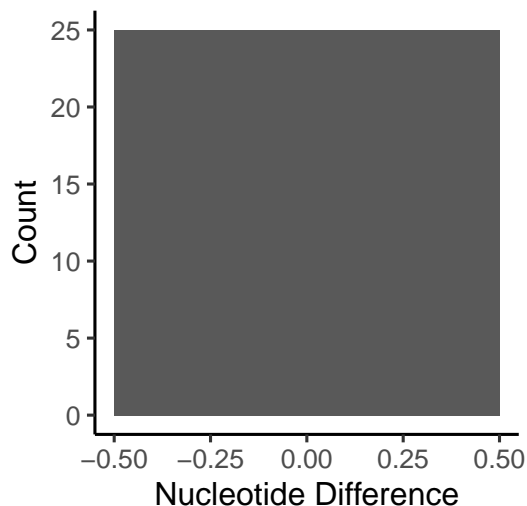
TRBV15*ap02

791 sequences assigned
780 (98.6%) exact matches, in which:
769 unique CDR3
13 unique J



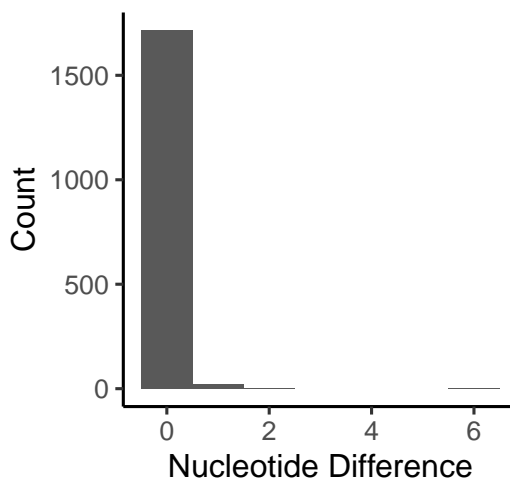
TRBV16*ap01

25 sequences assigned
25 (100%) exact matches, in which:
24 unique CDR3
7 unique J



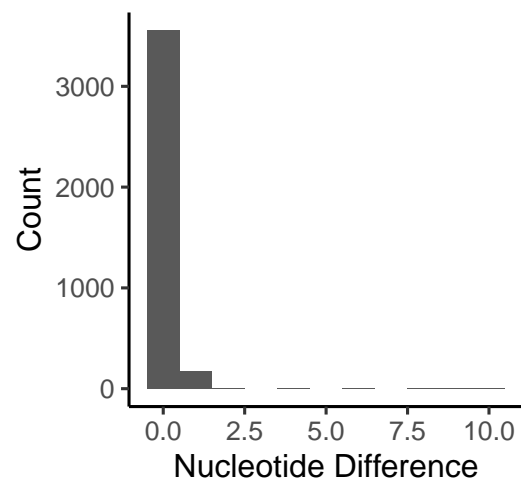
TRBV2*ap01

1741 sequences assigned
1715 (98.5%) exact matches, in which:
1701 unique CDR3
13 unique J



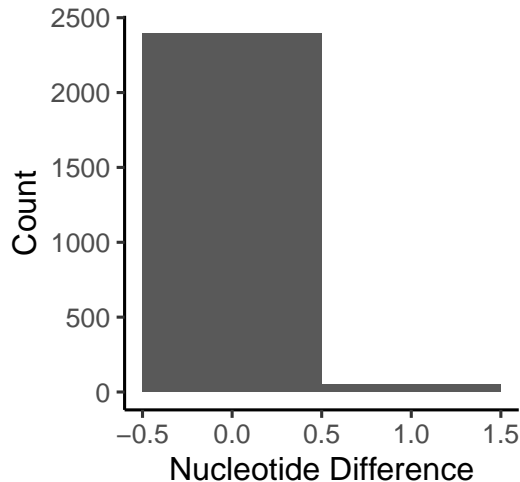
TRBV30*ap01

3741 sequences assigned
3555 (95%) exact matches, in which:
3388 unique CDR3
13 unique J



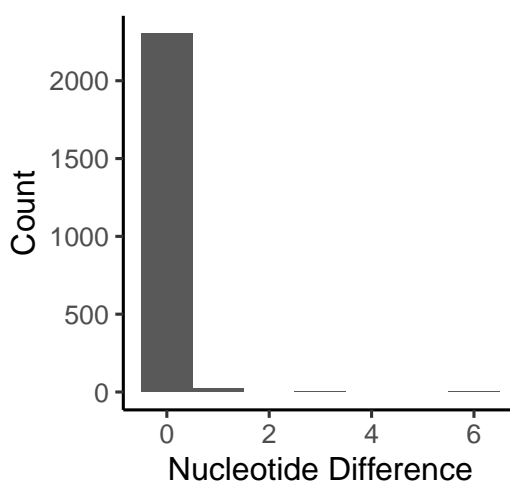
TRBV18*ap01

2442 sequences assigned
2393 (98%) exact matches, in which:
2362 unique CDR3
13 unique J



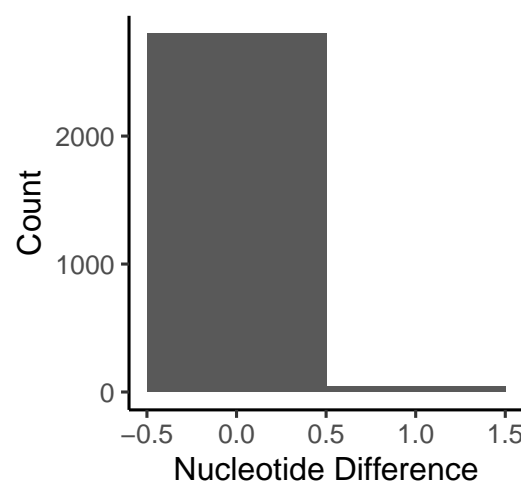
TRBV27*ap01

2325 sequences assigned
2302 (99%) exact matches, in which:
2287 unique CDR3
13 unique J



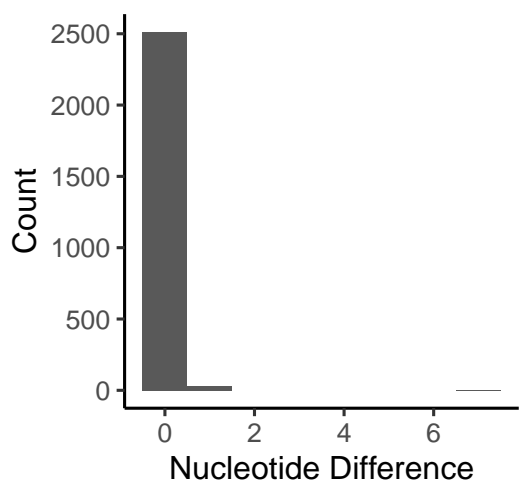
TRBV9*ap01

2844 sequences assigned
2800 (98.5%) exact matches, in which:
2772 unique CDR3
13 unique J



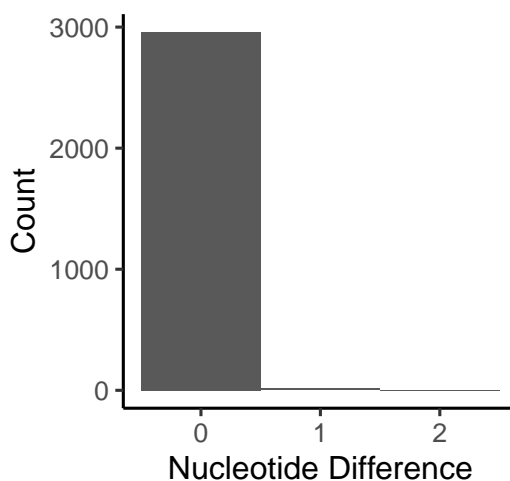
TRBV19*ap01

2544 sequences assigned
2512 (98.7%) exact matches, in which:
2494 unique CDR3
13 unique J



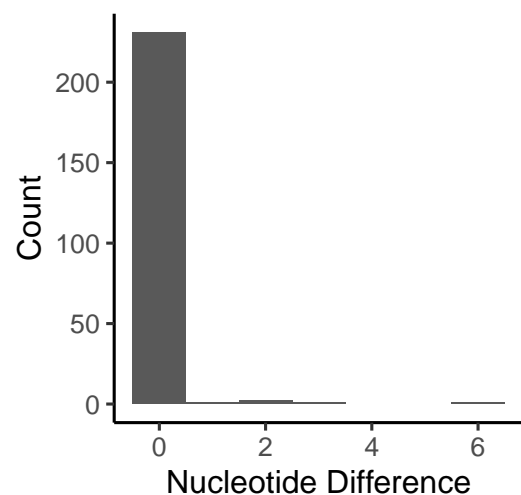
TRBV28*ap01

2976 sequences assigned
2959 (99.4%) exact matches, in which:
2936 unique CDR3
13 unique J



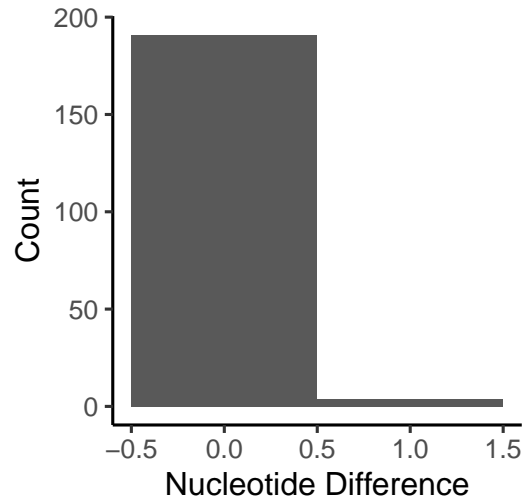
TRBV21-1*ap01

236 sequences assigned
231 (97.9%) exact matches, in which:
231 unique CDR3
12 unique J



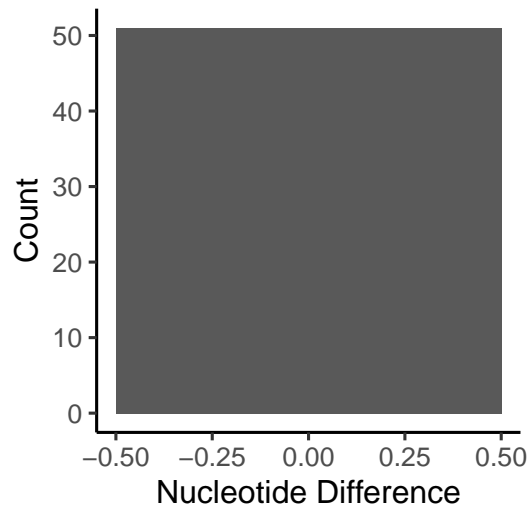
TRBV11–1*ap01

195 sequences assigned
191 (97.9%) exact matches, in which:
188 unique CDR3
11 unique J



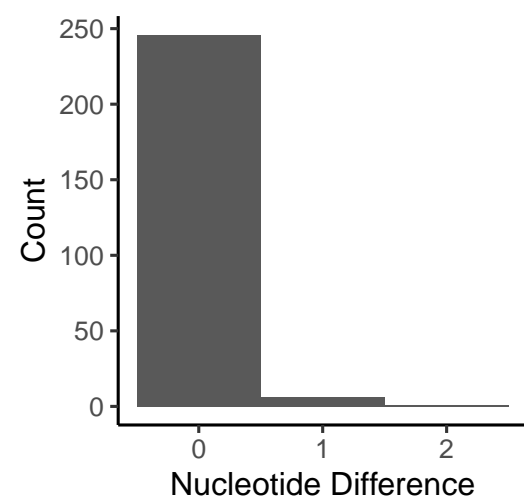
TRBV12–1*ap01

51 sequences assigned
51 (100%) exact matches, in which:
51 unique CDR3
9 unique J



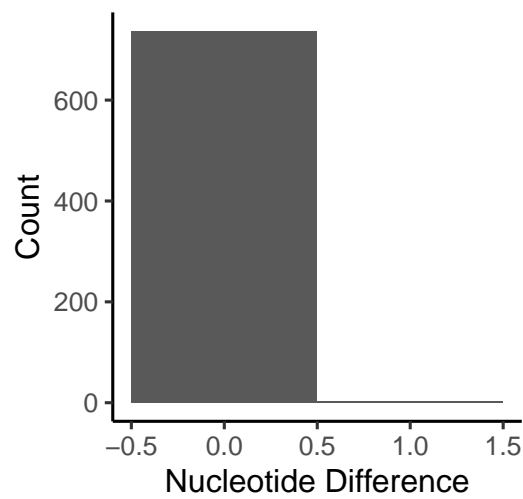
TRBV12–5*ap01

253 sequences assigned
246 (97.2%) exact matches, in which:
245 unique CDR3
12 unique J



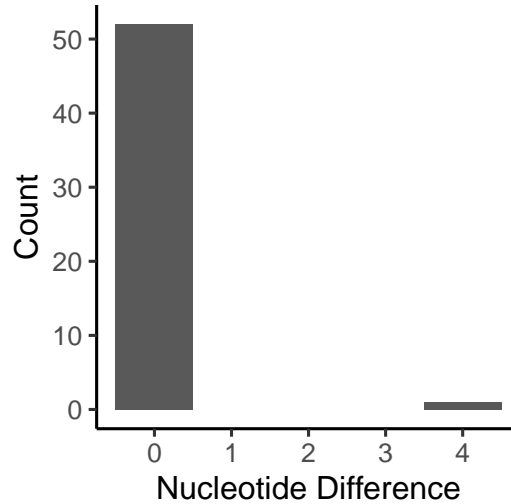
TRBV11–2*ap01

740 sequences assigned
737 (99.6%) exact matches, in which:
732 unique CDR3
12 unique J



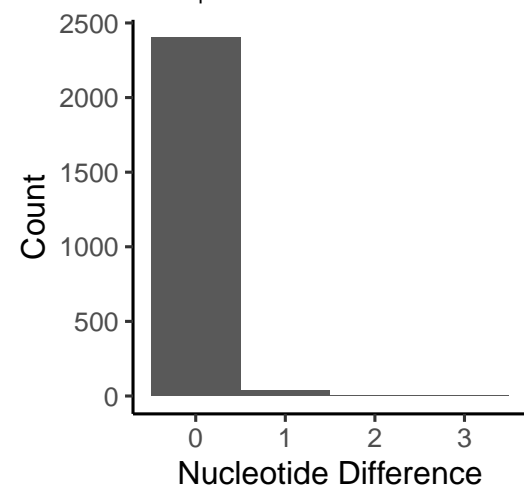
TRBV12–2*ap01

53 sequences assigned
52 (98.1%) exact matches, in which:
52 unique CDR3
11 unique J



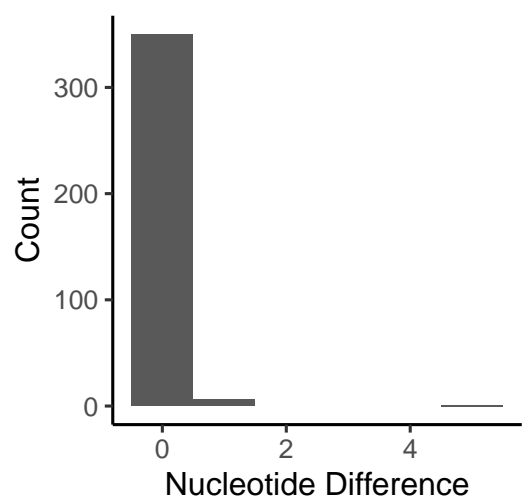
TRBV12–34*ap01

2439 sequences assigned
2401 (98.4%) exact matches, in which:
2385 unique CDR3
13 unique J



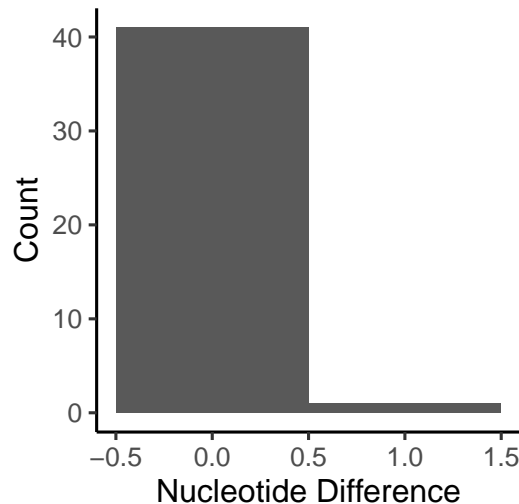
TRBV11–3*ap01

357 sequences assigned
350 (98%) exact matches, in which:
345 unique CDR3
13 unique J



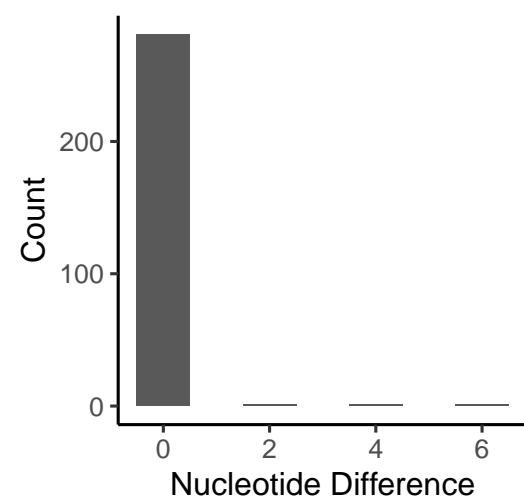
TRBV12–2*ap01_G301A

42 sequences assigned
41 (97.6%) exact matches, in which:
41 unique CDR3
10 unique J



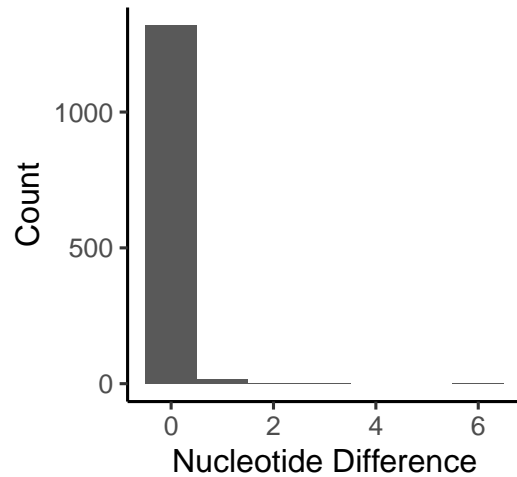
TRBV23–1*ap01

284 sequences assigned
281 (98.9%) exact matches, in which:
280 unique CDR3
12 unique J



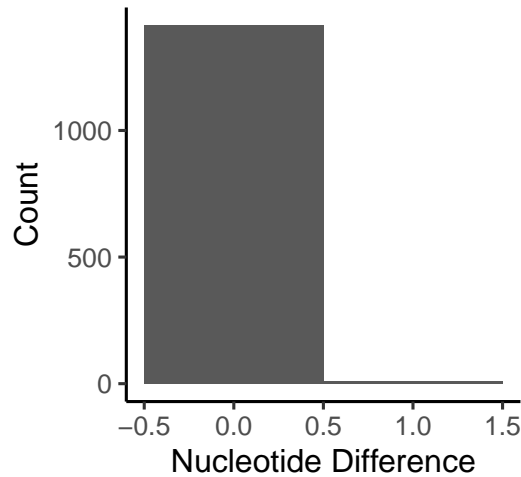
TRBV3-12*ap01

1338 sequences assigned
1319 (98.6%) exact matches, in which:
1314 unique CDR3
13 unique J



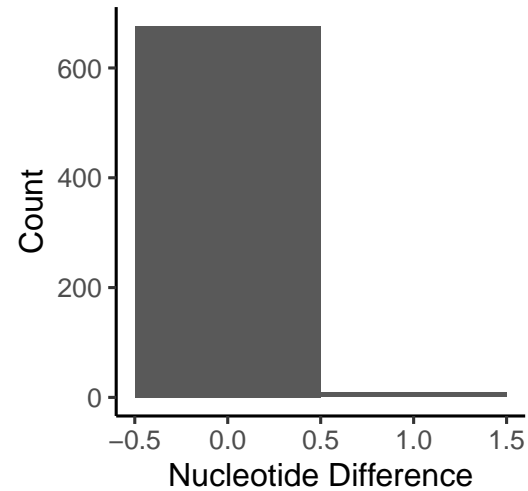
TRBV4-2*ap01

1426 sequences assigned
1415 (99.2%) exact matches, in which:
1389 unique CDR3
13 unique J



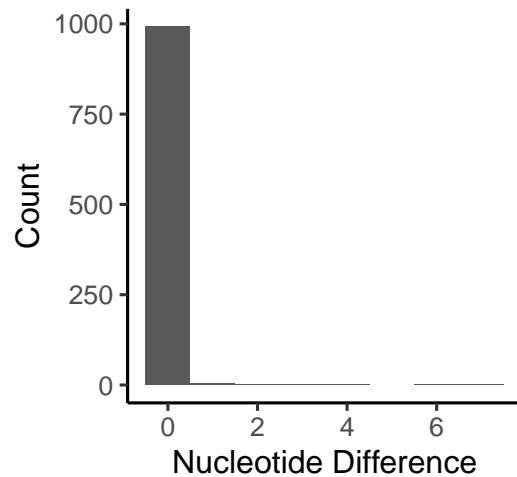
TRBV25-1*ap01

686 sequences assigned
677 (98.7%) exact matches, in which:
666 unique CDR3
13 unique J



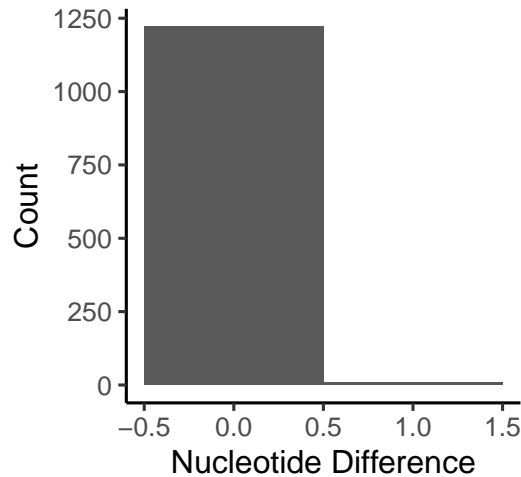
TRBV24-1*ap01

1003 sequences assigned
992 (98.9%) exact matches, in which:
983 unique CDR3
13 unique J



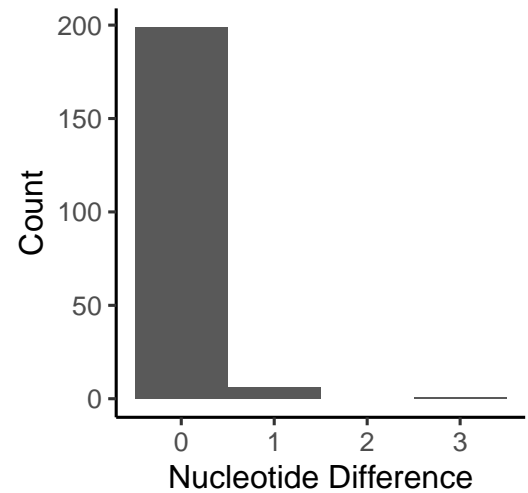
TRBV4-3*ap01

1231 sequences assigned
1221 (99.2%) exact matches, in which:
1199 unique CDR3
13 unique J



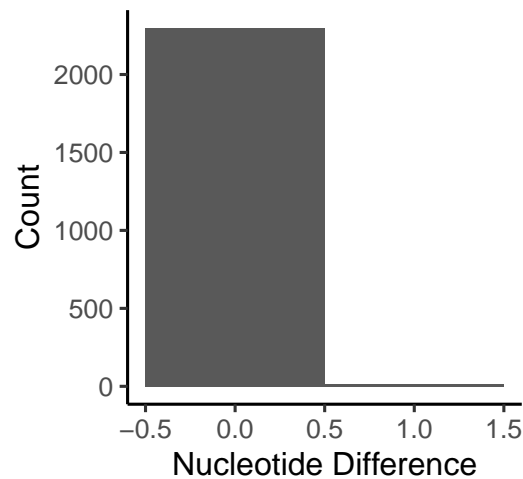
TRBV5-3*ap01

206 sequences assigned
199 (96.6%) exact matches, in which:
198 unique CDR3
12 unique J



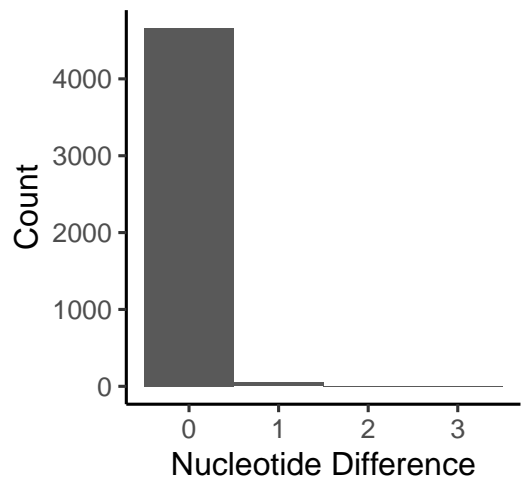
TRBV4-1*ap01

2314 sequences assigned
2298 (99.3%) exact matches, in which:
2262 unique CDR3
13 unique J



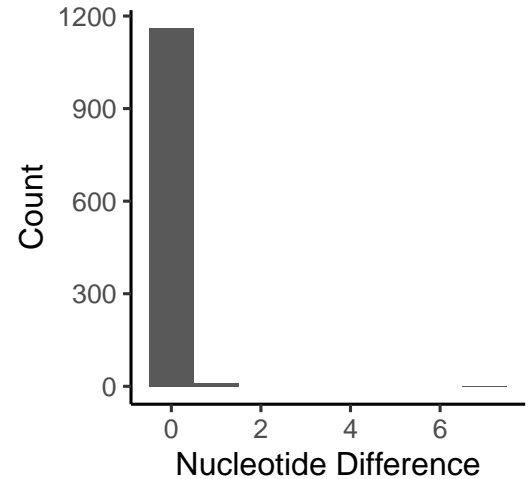
TRBV5-1*ap01

4712 sequences assigned
4661 (98.9%) exact matches, in which:
4608 unique CDR3
13 unique J



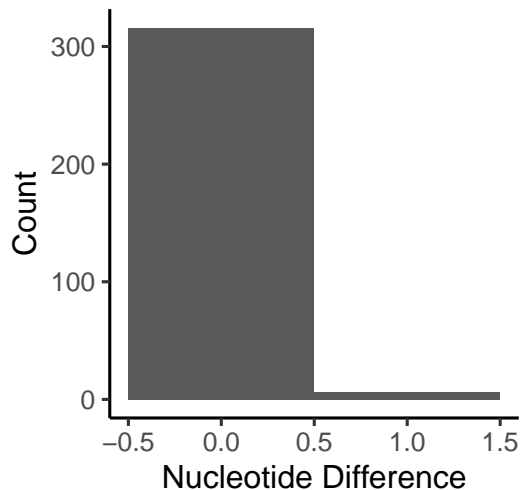
TRBV5-4*ap01

1172 sequences assigned
1161 (99.1%) exact matches, in which:
1154 unique CDR3
13 unique J



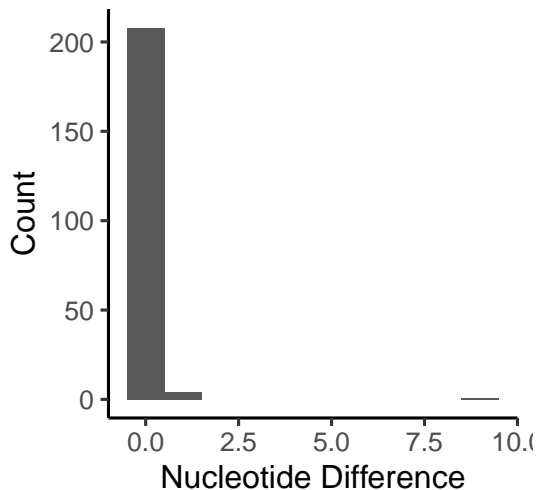
TRBV5-5*ap01

322 sequences assigned
316 (98.1%) exact matches, in which:
316 unique CDR3
13 unique J



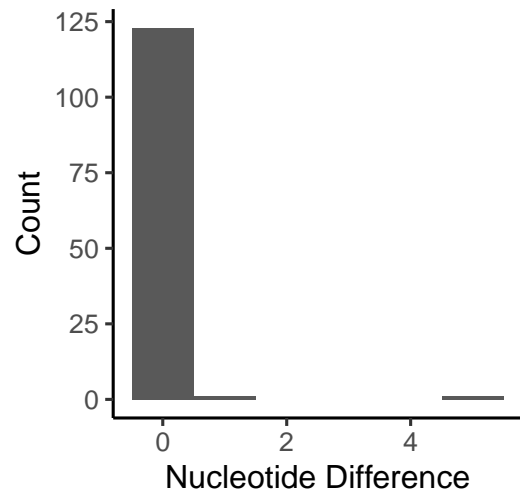
TRBV5-8*ap01

213 sequences assigned
208 (97.7%) exact matches, in which:
207 unique CDR3
12 unique J



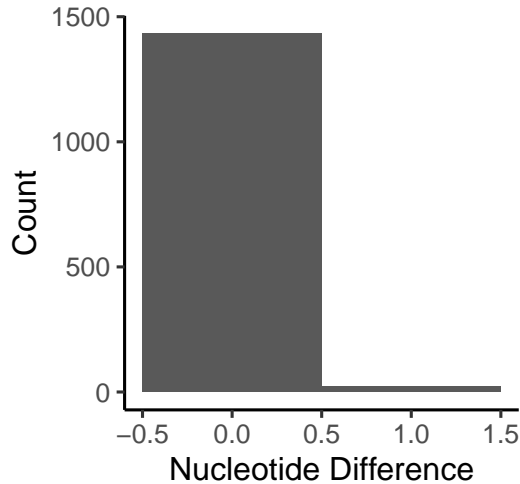
TRBV6-7*ap01

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



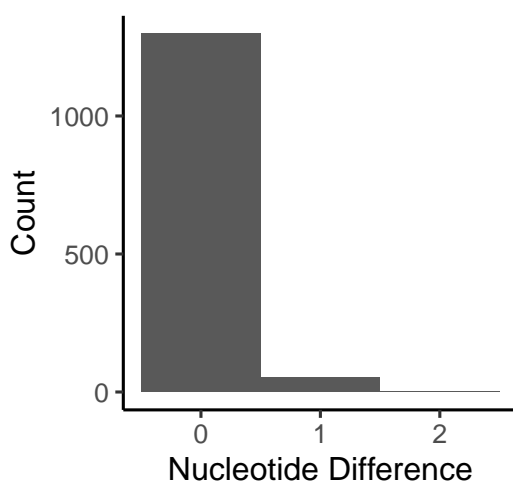
TRBV5-6*ap01

1452 sequences assigned
1432 (98.6%) exact matches, in which:
1404 unique CDR3
13 unique J



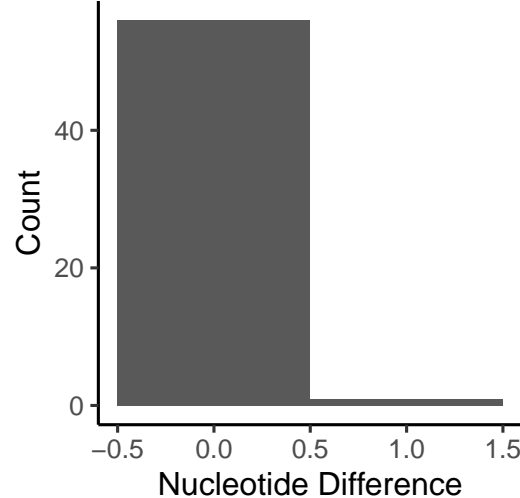
TRBV6-1*ap01

1350 sequences assigned
1298 (96.1%) exact matches, in which:
1282 unique CDR3
13 unique J



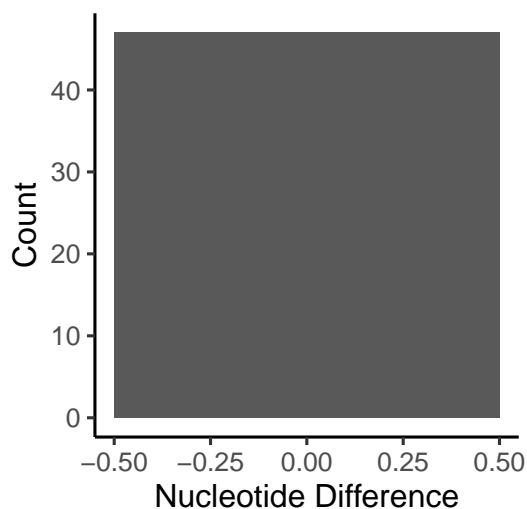
TRBV6-8*ap01

57 sequences assigned
56 (98.2%) exact matches, in which:
56 unique CDR3
12 unique J



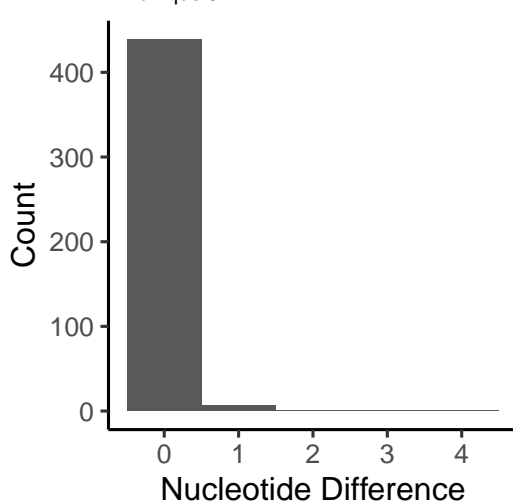
TRBV5-7*ap01

47 sequences assigned
47 (100%) exact matches, in which:
47 unique CDR3
11 unique J



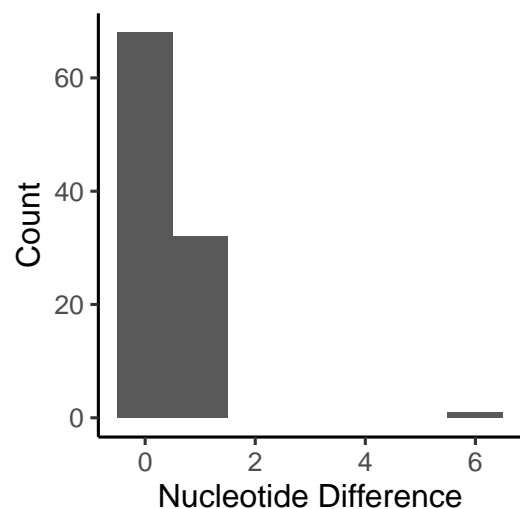
TRBV6-4*ap01

448 sequences assigned
439 (98%) exact matches, in which:
438 unique CDR3
12 unique J



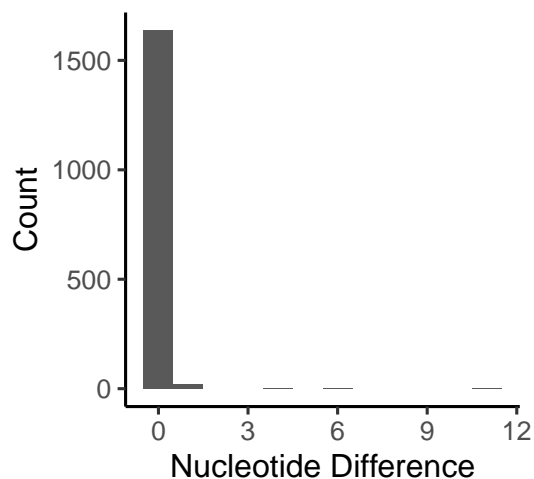
TRBV6-9*ap01

101 sequences assigned
68 (67.3%) exact matches, in which:
65 unique CDR3
10 unique J



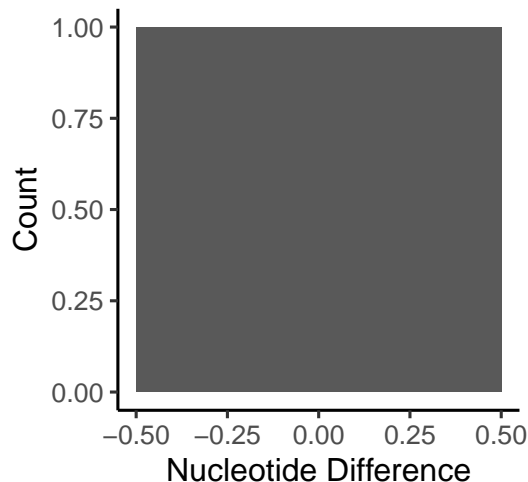
TRBV6–23*ap01

1662 sequences assigned
1637 (98.5%) exact matches, in which:
1622 unique CDR3
13 unique J



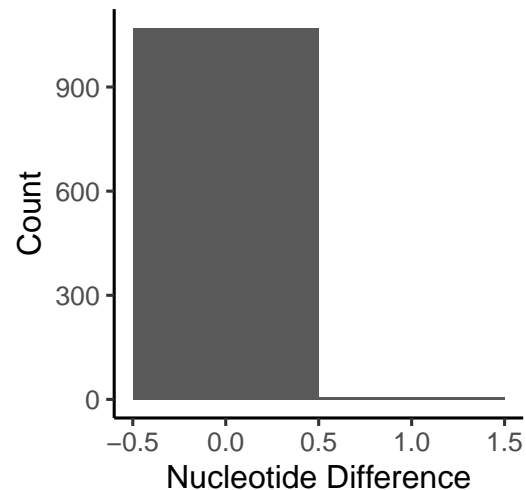
TRBV7–1*ap01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



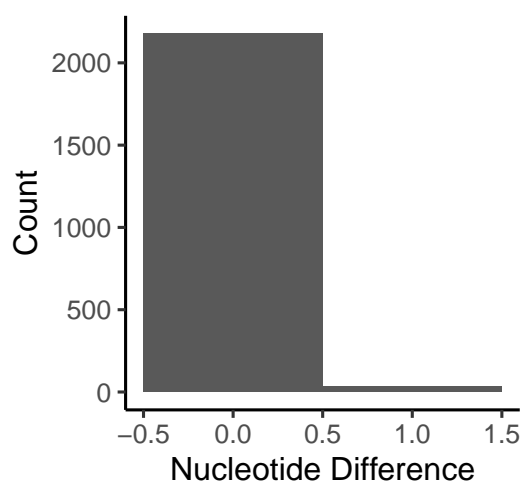
TRBV7–3*ap01

1078 sequences assigned
1071 (99.4%) exact matches, in which:
1058 unique CDR3
13 unique J



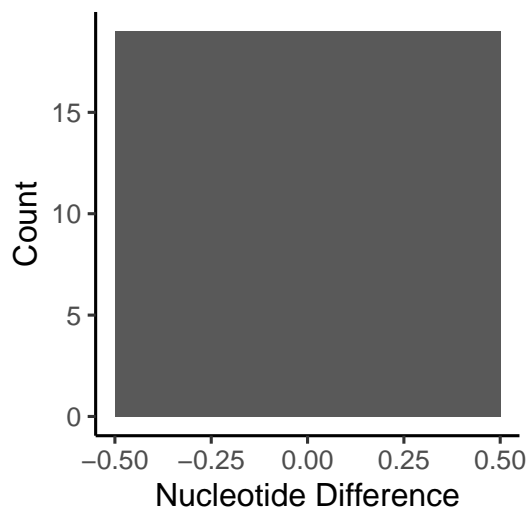
TRBV6–56*ap01

2211 sequences assigned
2177 (98.5%) exact matches, in which:
2140 unique CDR3
13 unique J



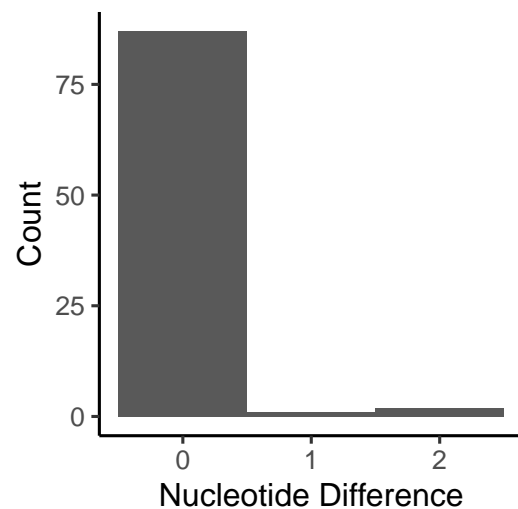
TRBV7–1*ap01_G291C_T

19 sequences assigned
19 (100%) exact matches, in which:
19 unique CDR3
6 unique J



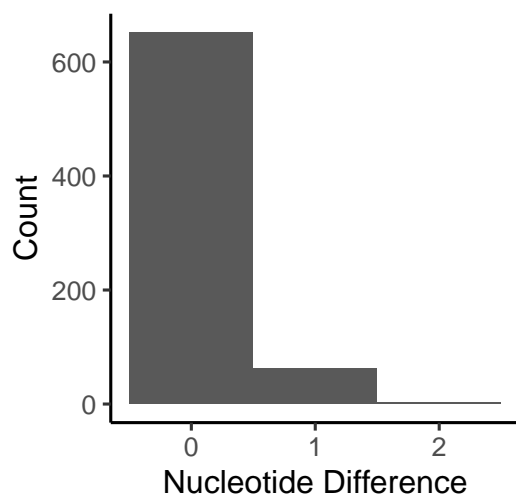
TRBV7–4*ap01

90 sequences assigned
87 (96.7%) exact matches, in which:
85 unique CDR3
13 unique J



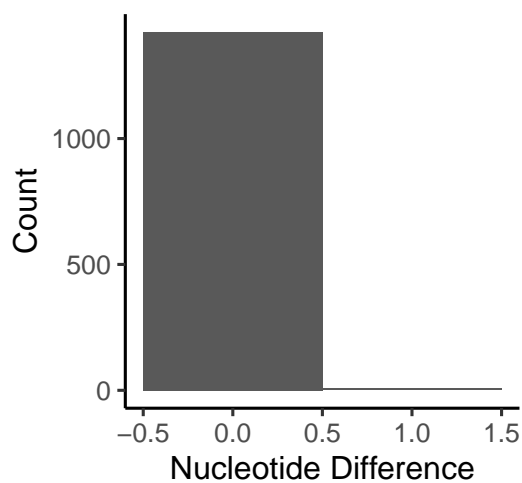
TRBV6–56*ap02

717 sequences assigned
652 (90.9%) exact matches, in which:
639 unique CDR3
13 unique J



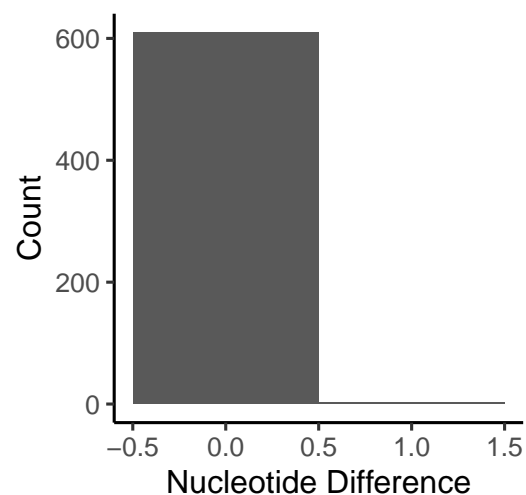
TRBV7–2*ap01

1430 sequences assigned
1423 (99.5%) exact matches, in which:
1407 unique CDR3
13 unique J



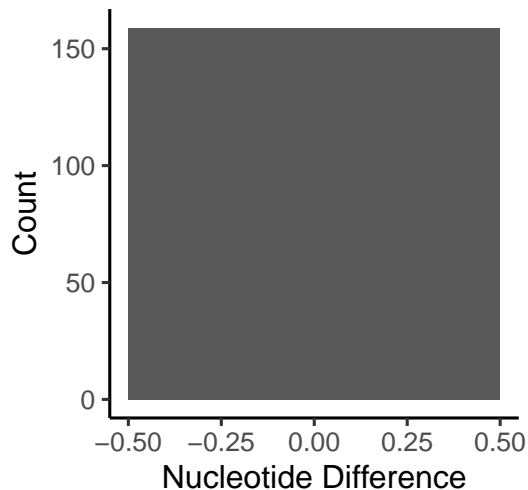
TRBV7–6*ap01

613 sequences assigned
610 (99.5%) exact matches, in which:
603 unique CDR3
13 unique J



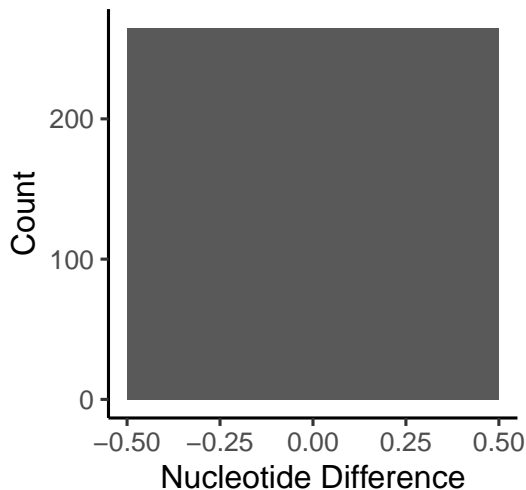
TRBV7-7*ap01

159 sequences assigned
159 (100%) exact matches, in which:
154 unique CDR3
11 unique J



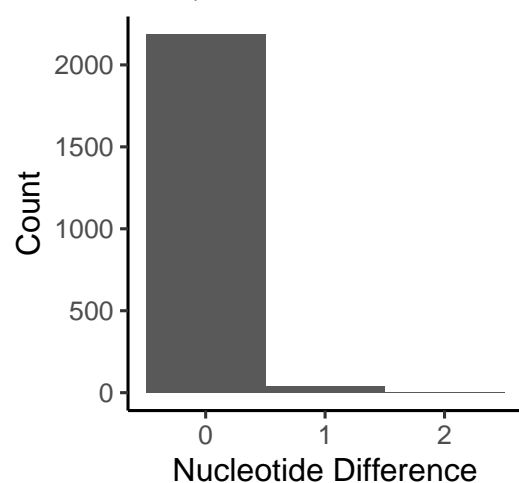
TRBV7-8*ap02

265 sequences assigned
265 (100%) exact matches, in which:
263 unique CDR3
13 unique J



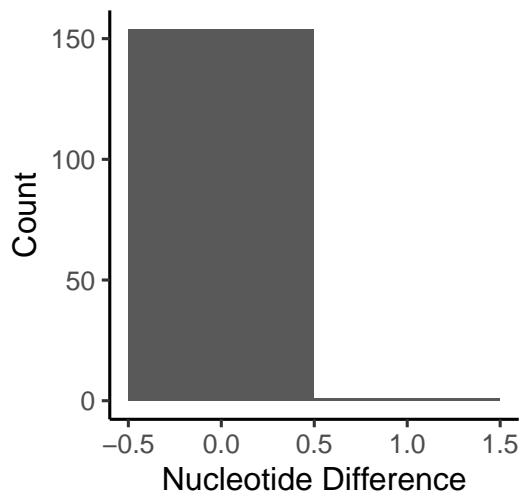
TRBV29-1*ap01

2227 sequences assigned
2186 (98.2%) exact matches, in which:
2109 unique CDR3
13 unique J



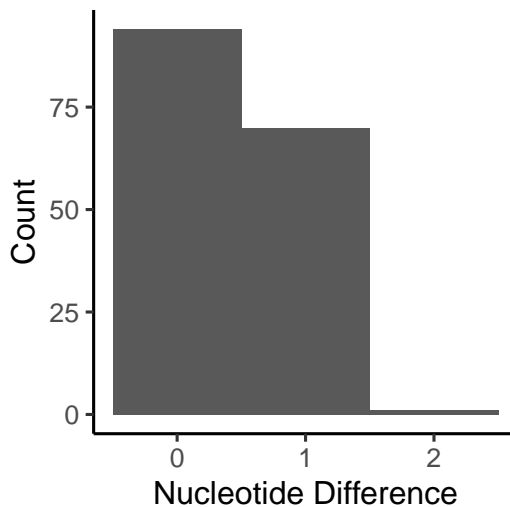
TRBV7-7*ap01_C315T

155 sequences assigned
154 (99.4%) exact matches, in which:
152 unique CDR3
12 unique J



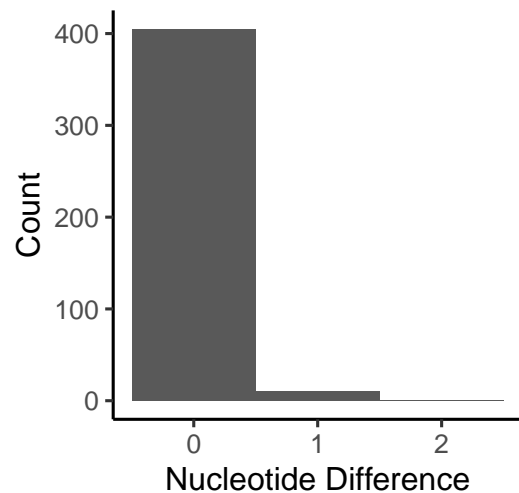
TRBV7-8*ap03

165 sequences assigned
94 (57%) exact matches, in which:
94 unique CDR3
10 unique J



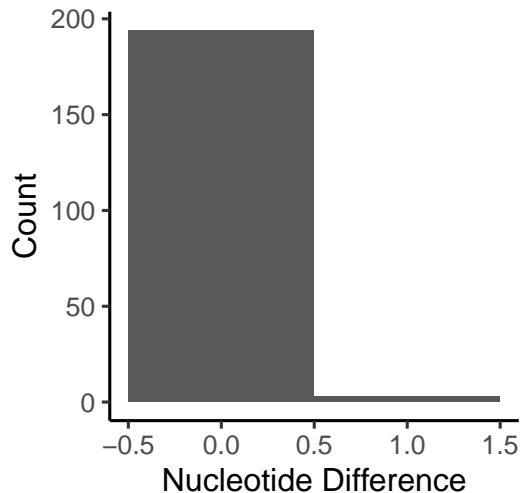
TRBV29-1*ap02

416 sequences assigned
405 (97.4%) exact matches, in which:
387 unique CDR3
12 unique J



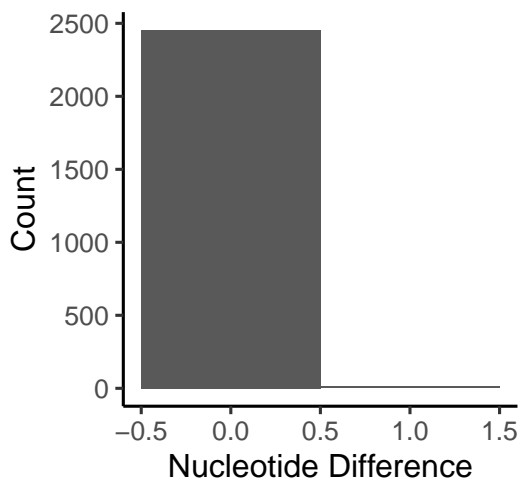
TRBV7-8*ap01

197 sequences assigned
194 (98.5%) exact matches, in which:
191 unique CDR3
13 unique J

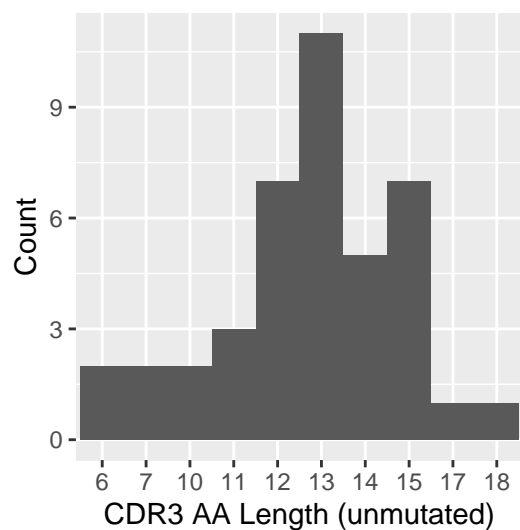


TRBV7-9*ap01

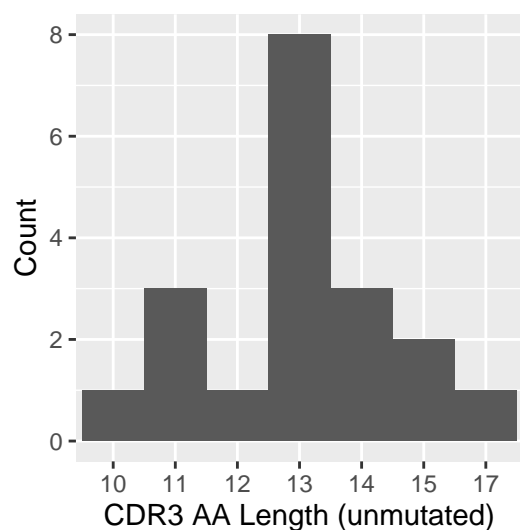
2466 sequences assigned
2454 (99.5%) exact matches, in which:
2420 unique CDR3
13 unique J



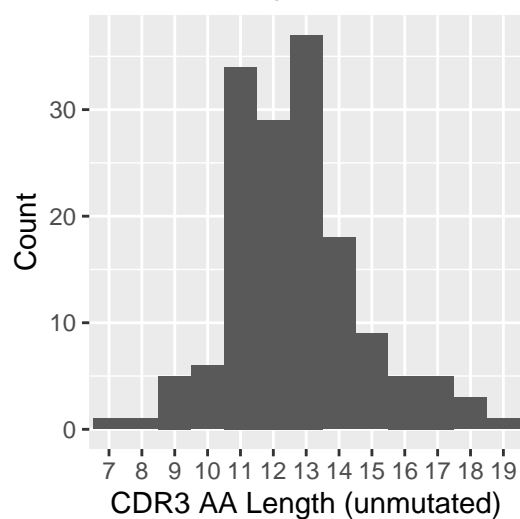
TRBV12-2*ap01_G301A



TRBV7-1*ap01_G291C_T296C_C314T



TRBV7-7*ap01_C315T





[illegible]