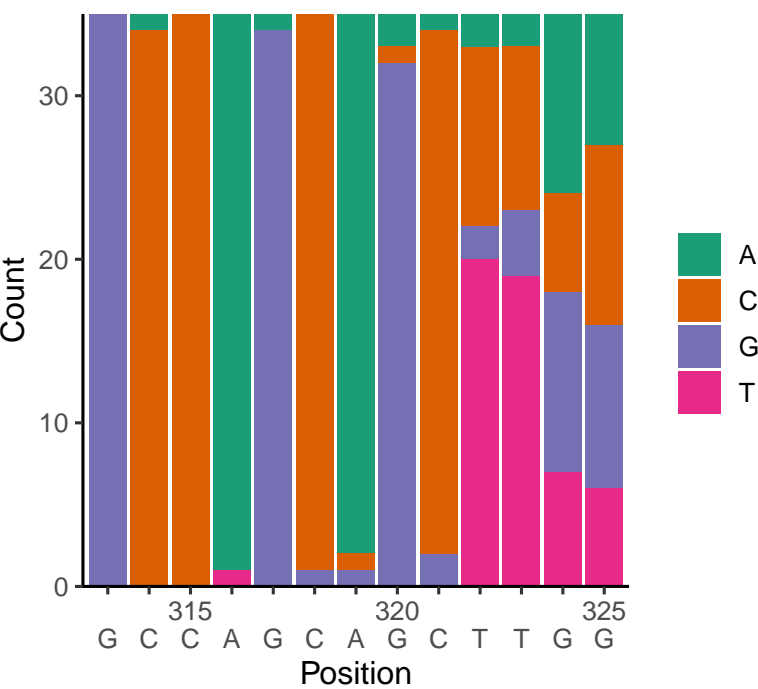
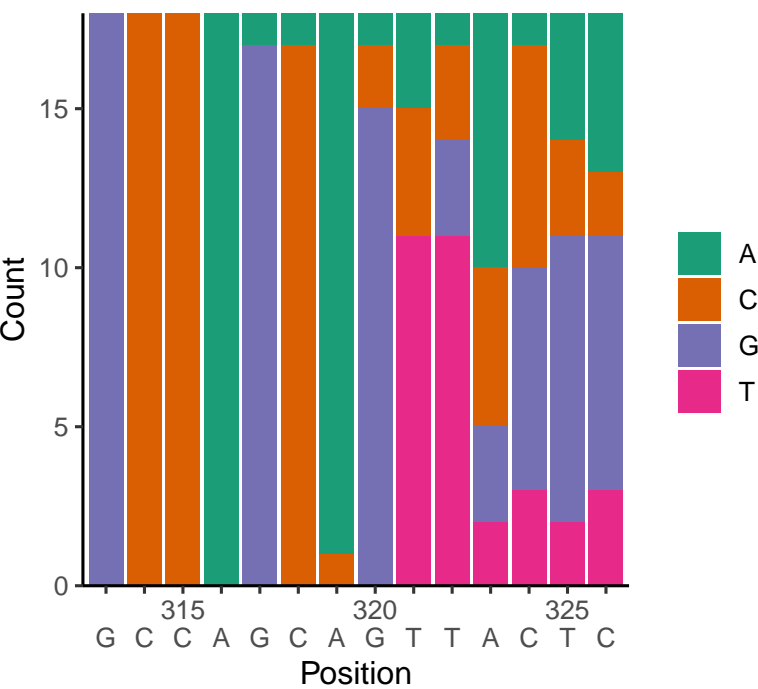


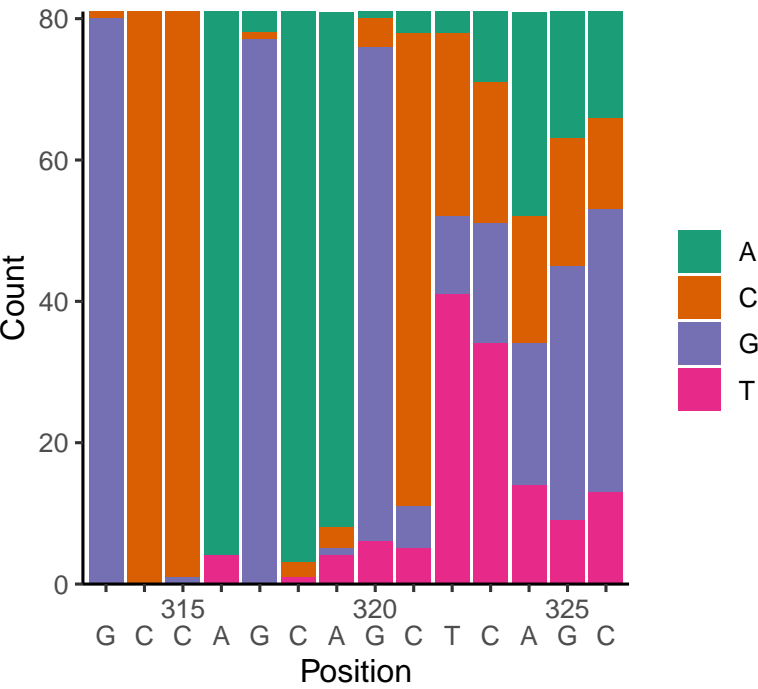
Gene TRBV5-7*ap01_G290A



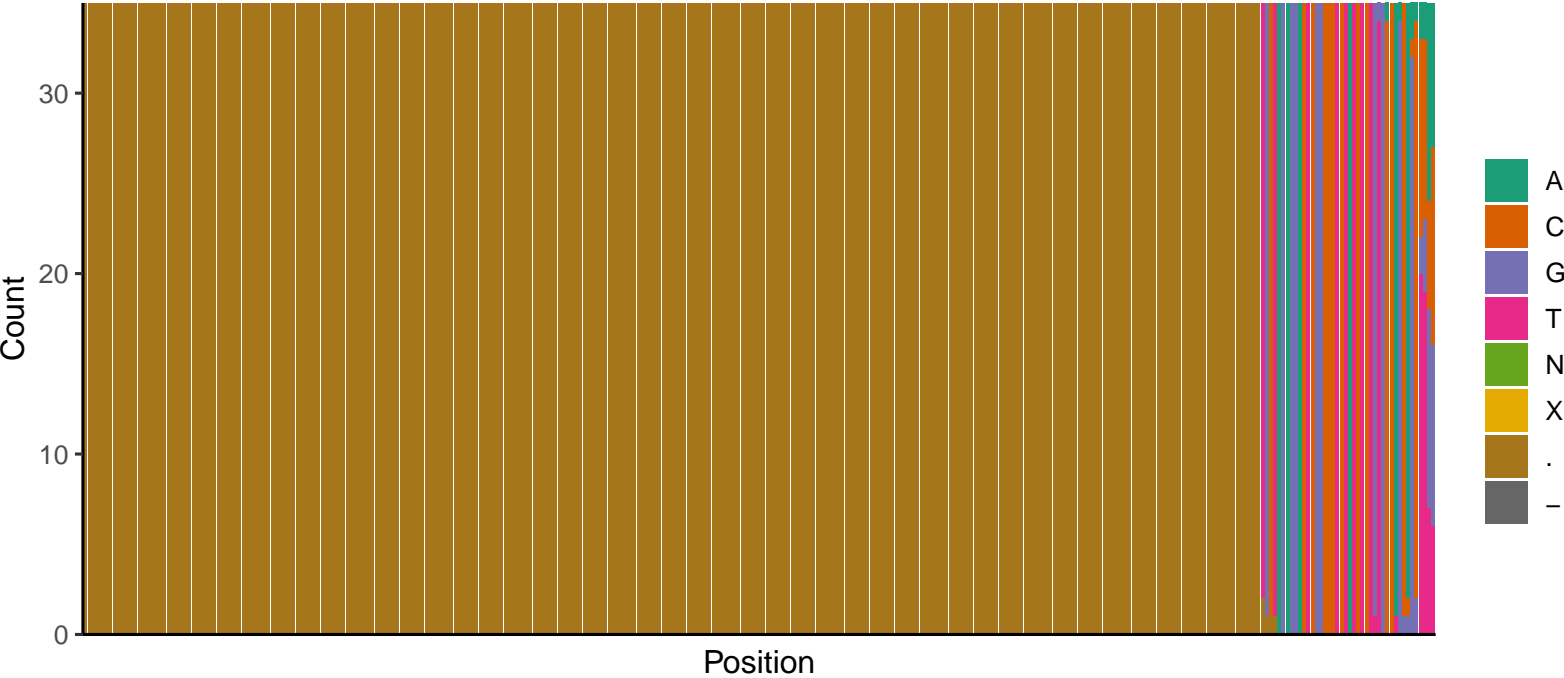
Gene TRBV6-8*ap01_A293G



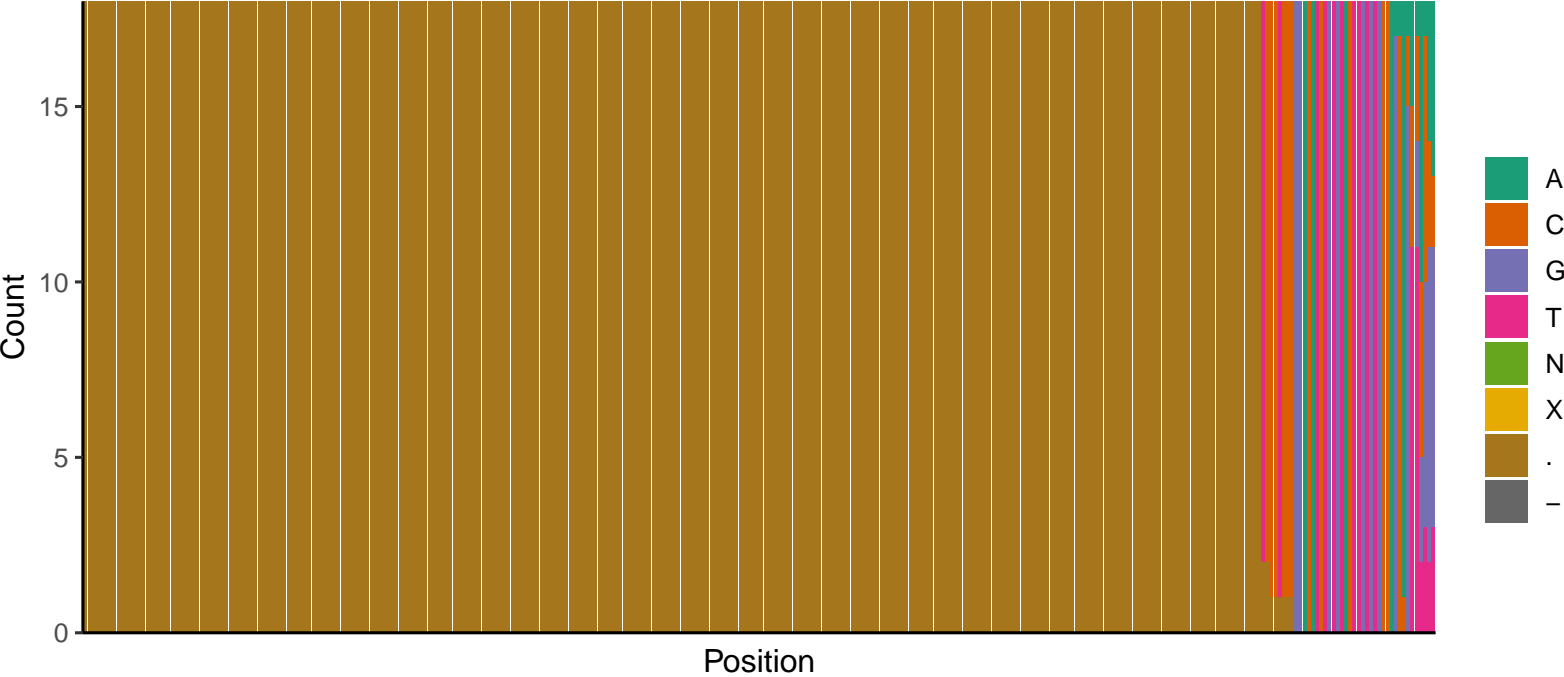
Gene TRBV7-1*ap01_G291C_T296C



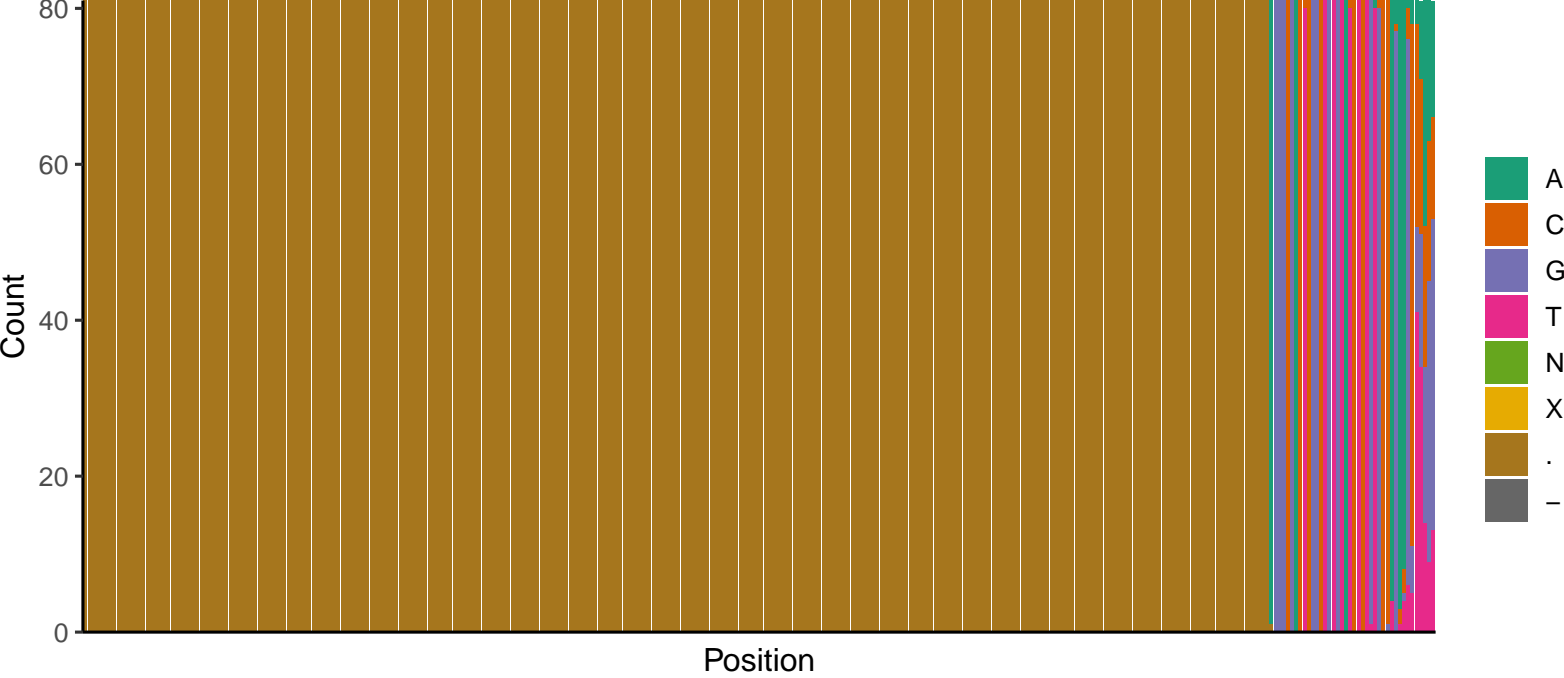
Gene TRBV5-7*ap01_G290A



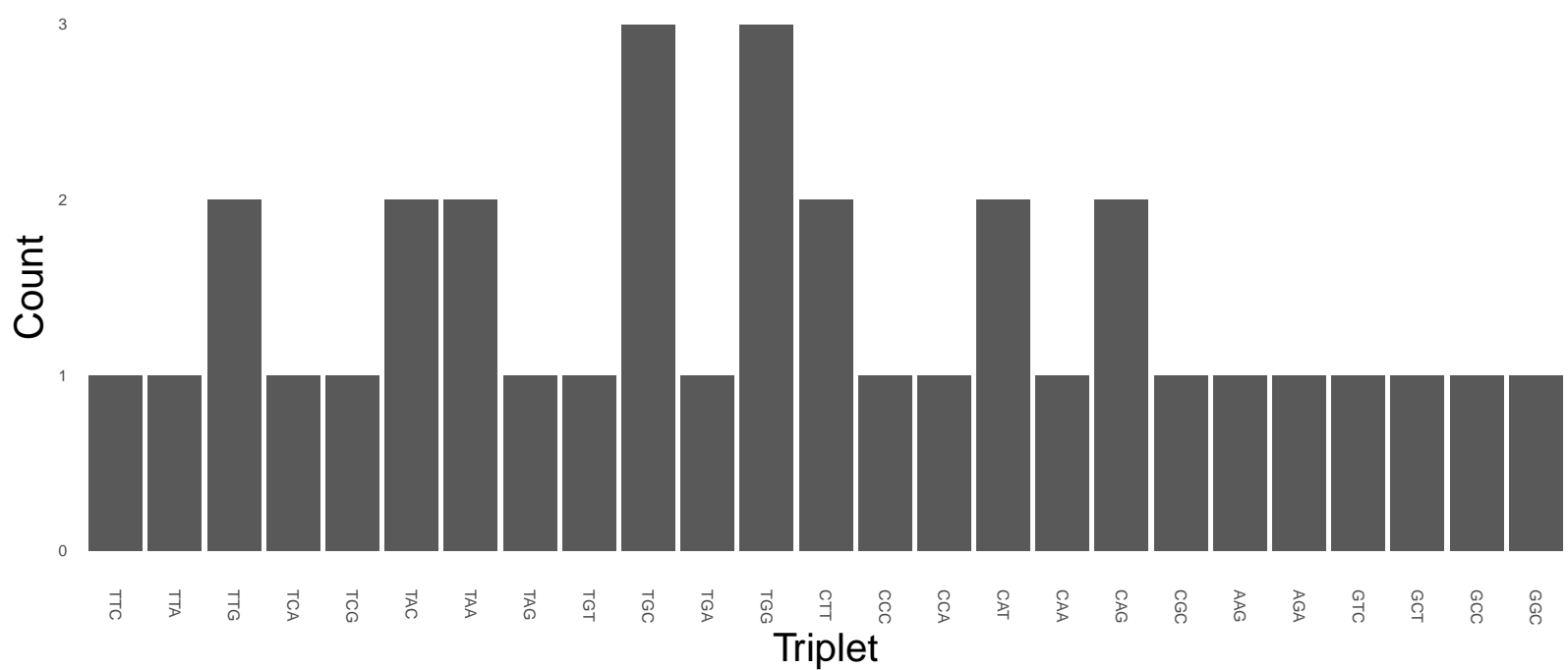
Gene TRBV6-8*ap01_A293G



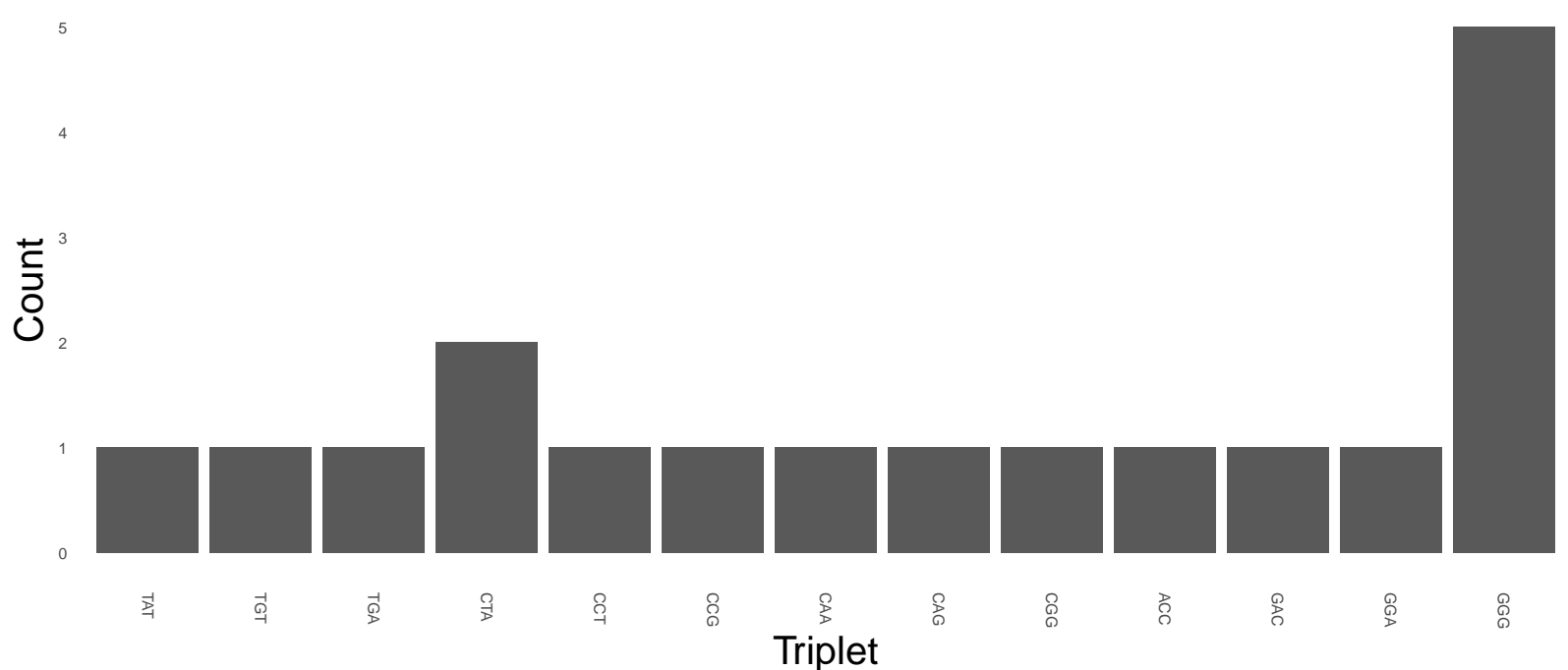
Gene TRBV7-1*ap01_G291C_T296C



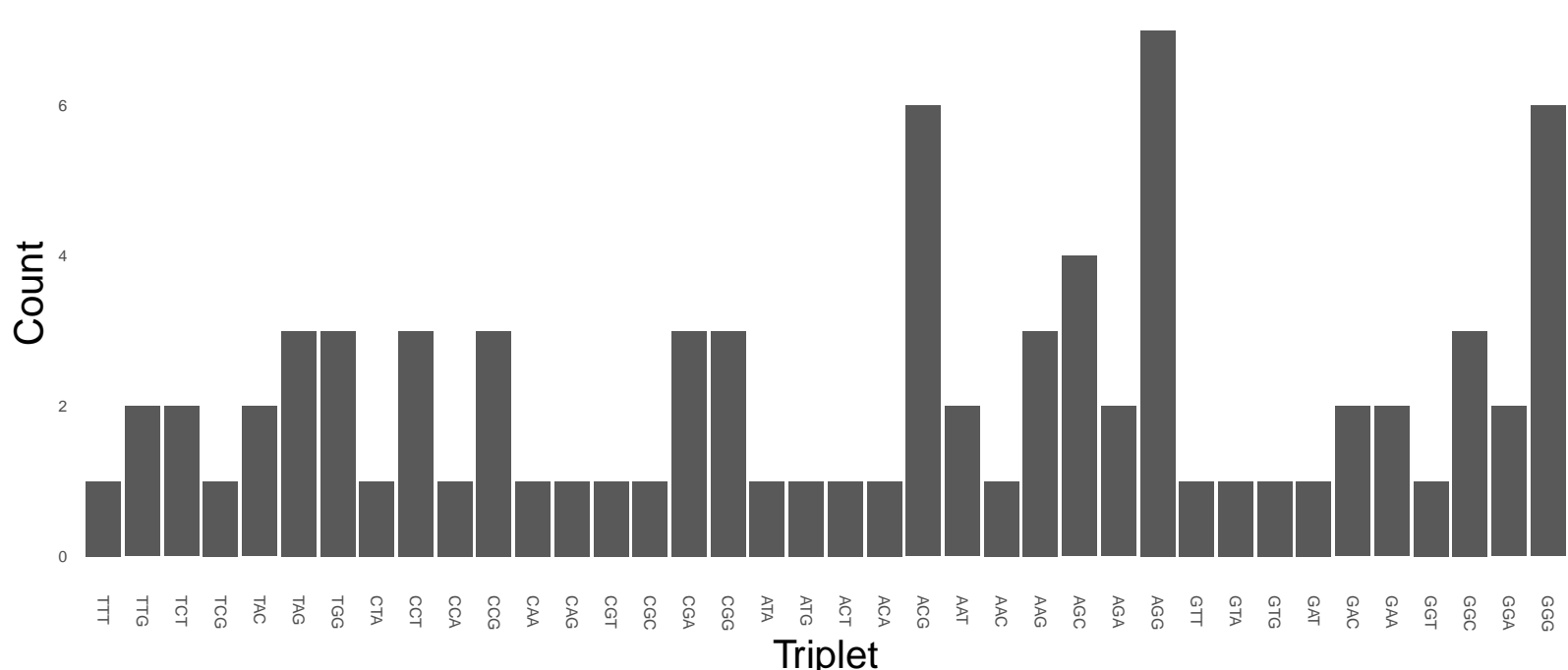
TRBV5-7*ap01_G290A- Final 3 nucleotides as a triplet



TRBV6-8*ap01_A293G- Final 3 nucleotides as a triplet

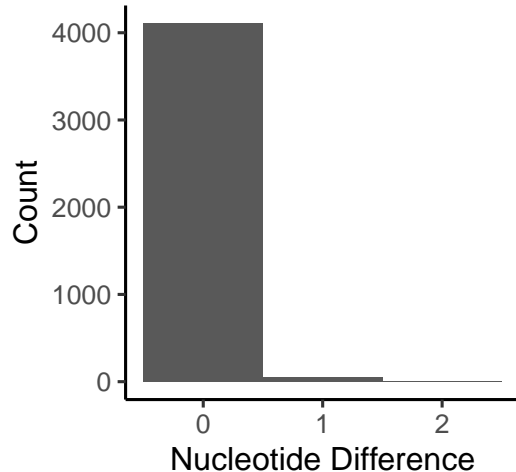


TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet



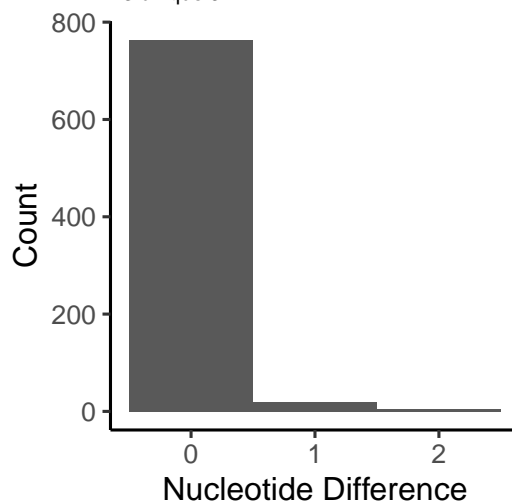
TRBV20-1*ap01

4158 sequences assigned
4107 (98.8%) exact matches, in which:
4044 unique CDR3
13 unique J



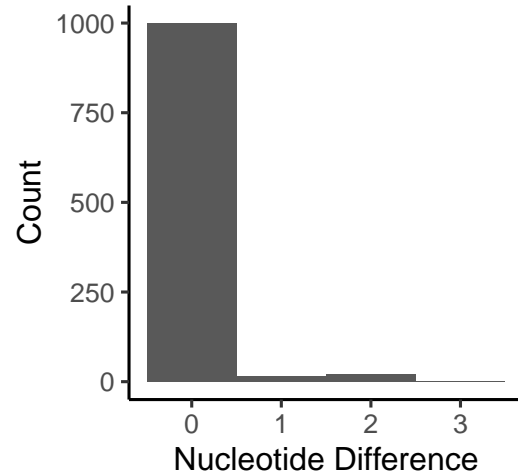
TRBV10-2*ap01

789 sequences assigned
764 (96.8%) exact matches, in which:
742 unique CDR3
13 unique J



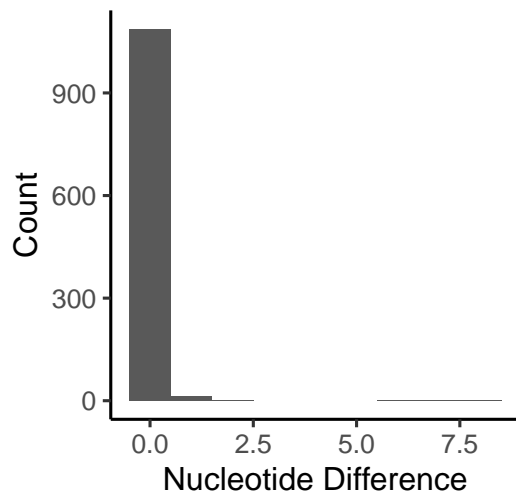
TRBV13*ap01

1034 sequences assigned
999 (96.6%) exact matches, in which:
974 unique CDR3
13 unique J



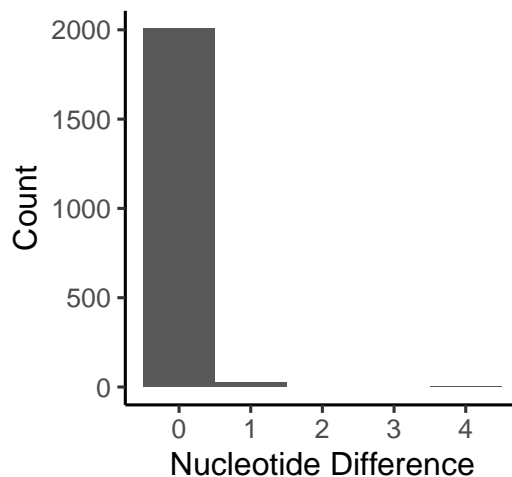
TRBV10-1*ap01

1103 sequences assigned
1087 (98.5%) exact matches, in which:
1068 unique CDR3
13 unique J



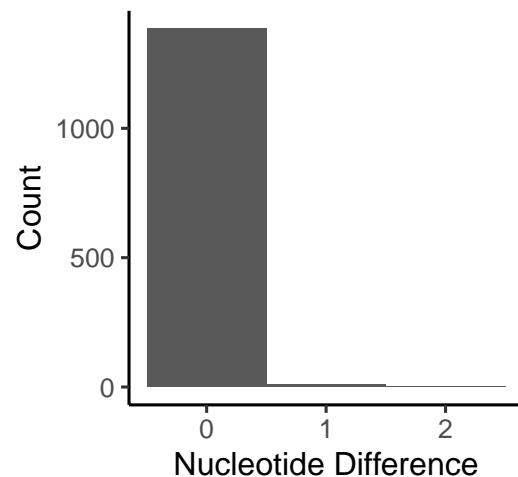
TRBV10-3*ap01

2031 sequences assigned
2006 (98.8%) exact matches, in which:
1964 unique CDR3
13 unique J



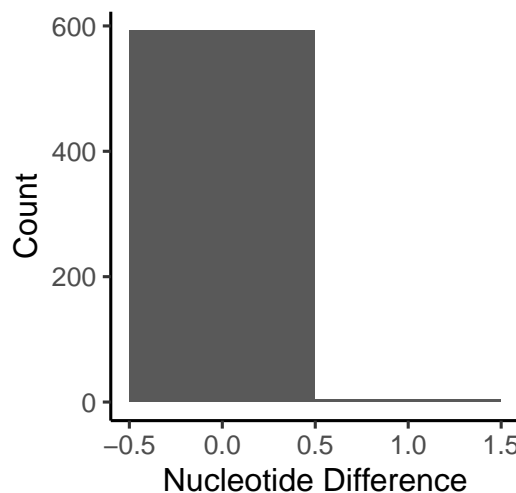
TRBV14*ap01

1396 sequences assigned
1385 (99.2%) exact matches, in which:
1358 unique CDR3
13 unique J



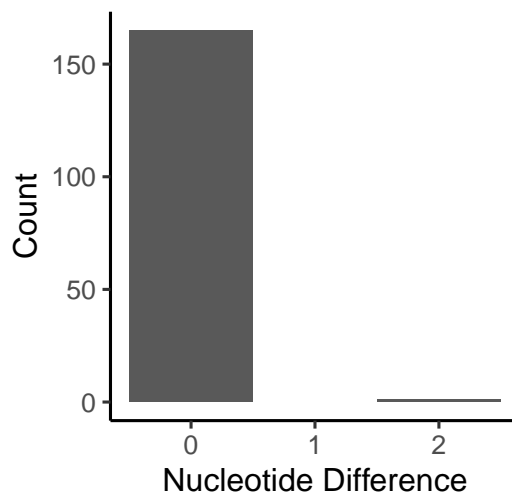
TRBV20-1*ap02

597 sequences assigned
593 (99.3%) exact matches, in which:
583 unique CDR3
13 unique J



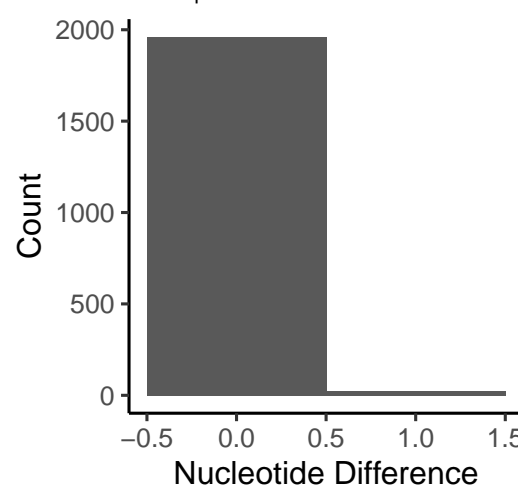
TRBV1*ap01

166 sequences assigned
165 (99.4%) exact matches, in which:
164 unique CDR3
13 unique J



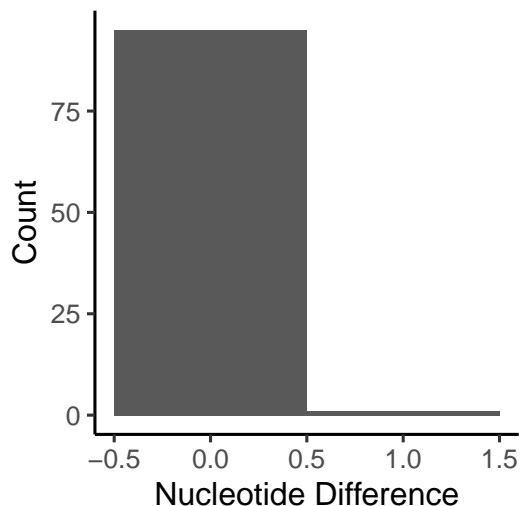
TRBV15*ap02

1982 sequences assigned
1960 (98.9%) exact matches, in which:
1920 unique CDR3
13 unique J



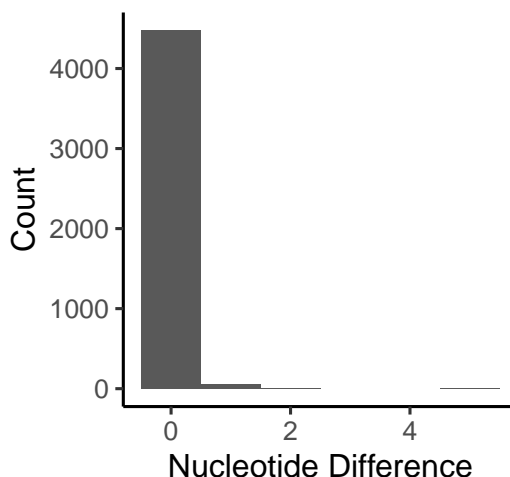
TRBV16*ap01

96 sequences assigned
95 (99%) exact matches, in which:
95 unique CDR3
13 unique J



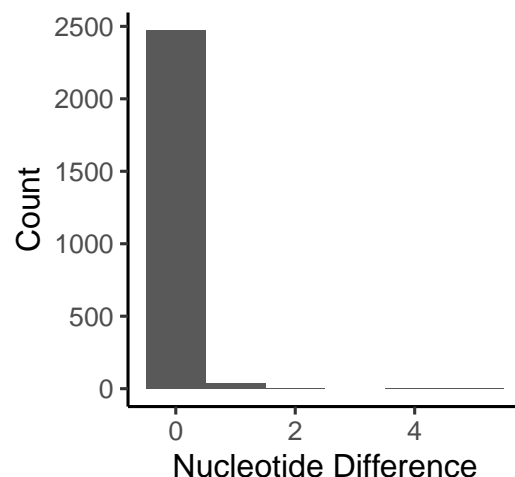
TRBV2*ap01

4540 sequences assigned
4476 (98.6%) exact matches, in which:
4395 unique CDR3
13 unique J



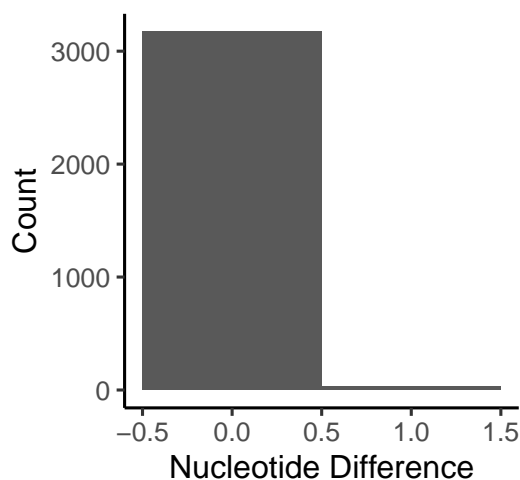
TRBV30*ap01

2514 sequences assigned
2472 (98.3%) exact matches, in which:
2443 unique CDR3
13 unique J



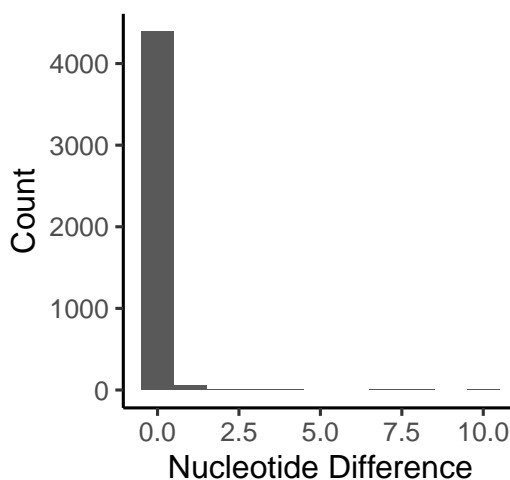
TRBV18*ap01

3202 sequences assigned
3172 (99.1%) exact matches, in which:
3145 unique CDR3
13 unique J



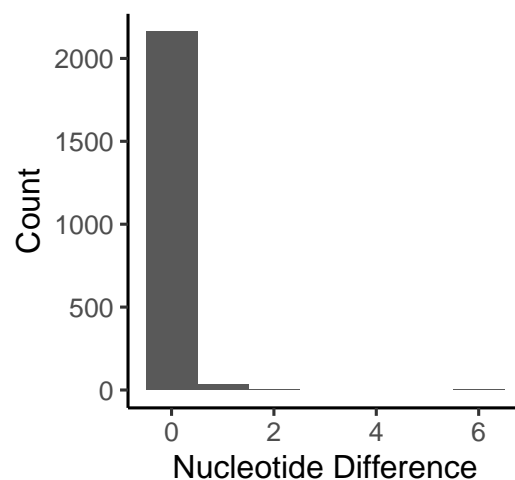
TRBV27*ap01

4457 sequences assigned
4390 (98.5%) exact matches, in which:
4291 unique CDR3
13 unique J



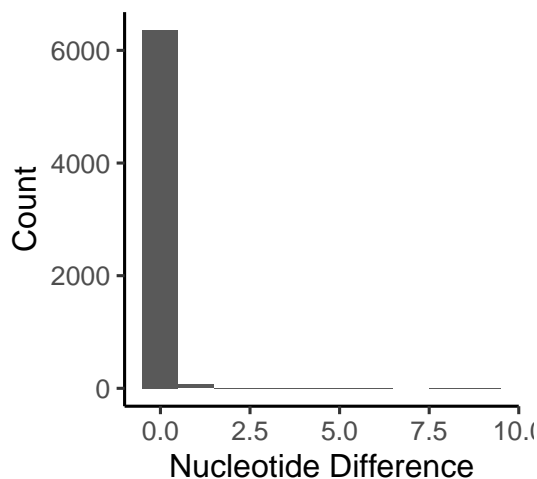
TRBV30*ap02

2199 sequences assigned
2161 (98.3%) exact matches, in which:
2141 unique CDR3
13 unique J



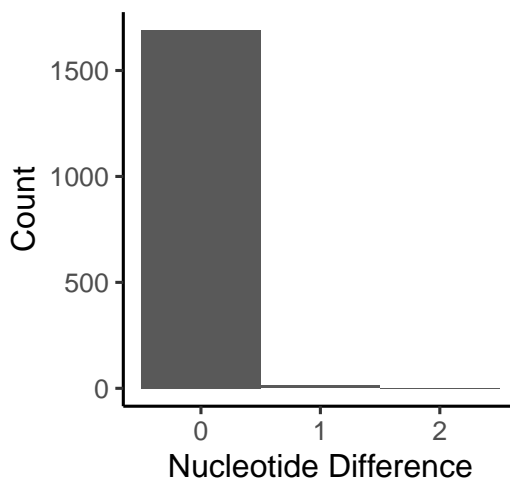
TRBV19*ap01

6440 sequences assigned
6361 (98.8%) exact matches, in which:
6298 unique CDR3
13 unique J



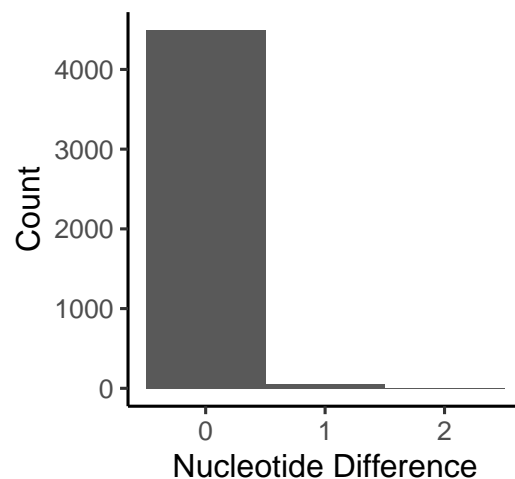
TRBV28*ap01

1706 sequences assigned
1691 (99.1%) exact matches, in which:
1677 unique CDR3
13 unique J



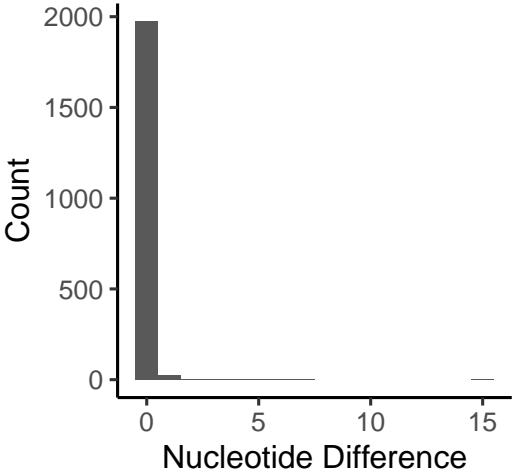
TRBV9*ap01

4550 sequences assigned
4494 (98.8%) exact matches, in which:
4423 unique CDR3
13 unique J



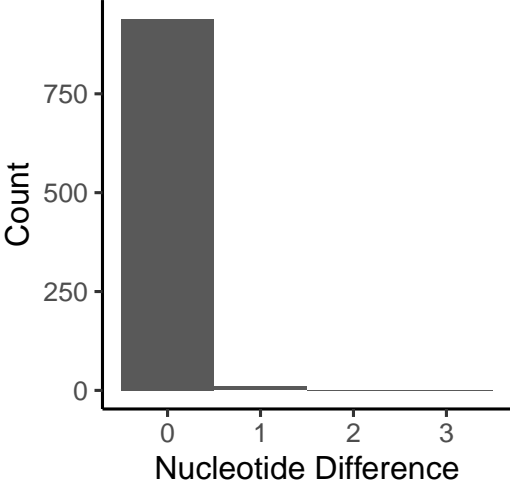
TRBV21-1*ap01

2010 sequences assigned
1974 (98.2%) exact matches, in which:
1950 unique CDR3
13 unique J



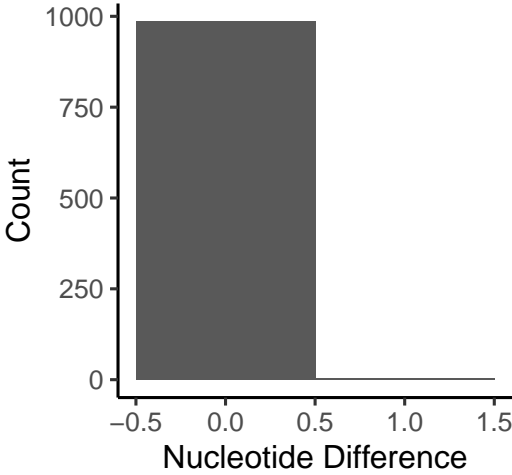
TRBV11-3*ap01

952 sequences assigned
940 (98.7%) exact matches, in which:
930 unique CDR3
13 unique J



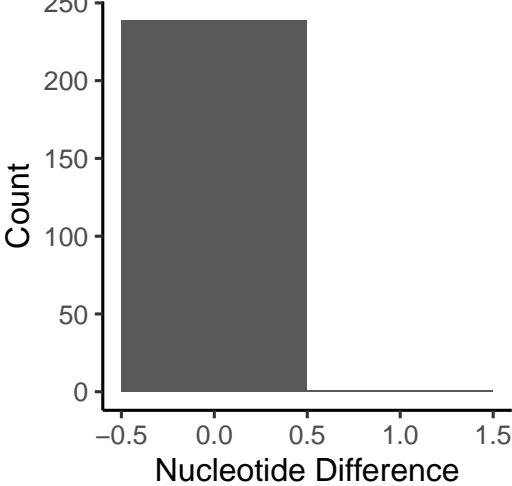
TRBV12-5*ap01

991 sequences assigned
986 (99.5%) exact matches, in which:
967 unique CDR3
13 unique J



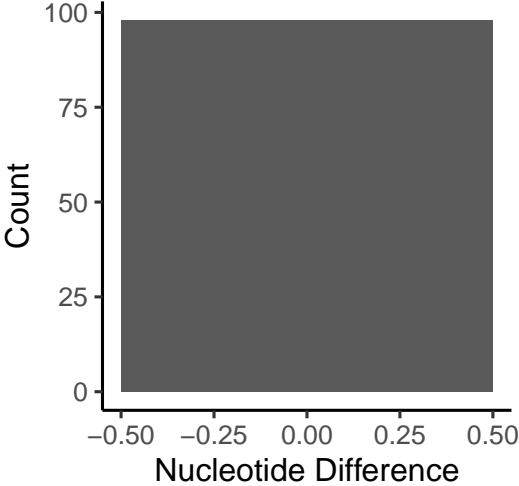
TRBV11-1*ap01

240 sequences assigned
239 (99.6%) exact matches, in which:
236 unique CDR3
13 unique J



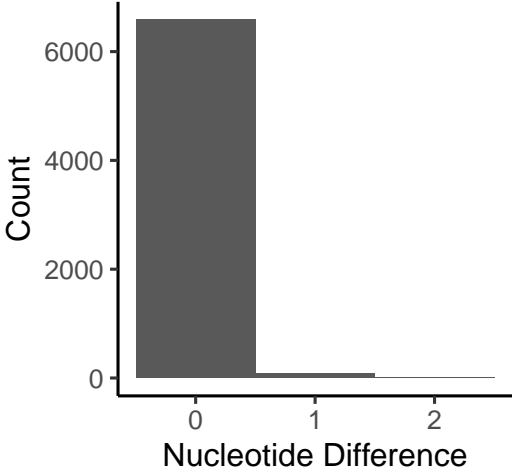
TRBV12-1*ap01

98 sequences assigned
98 (100%) exact matches, in which:
95 unique CDR3
13 unique J



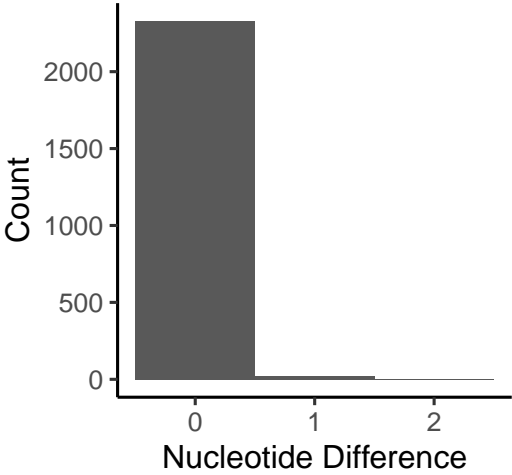
TRBV12-34*ap01

6664 sequences assigned
6586 (98.8%) exact matches, in which:
6487 unique CDR3
13 unique J



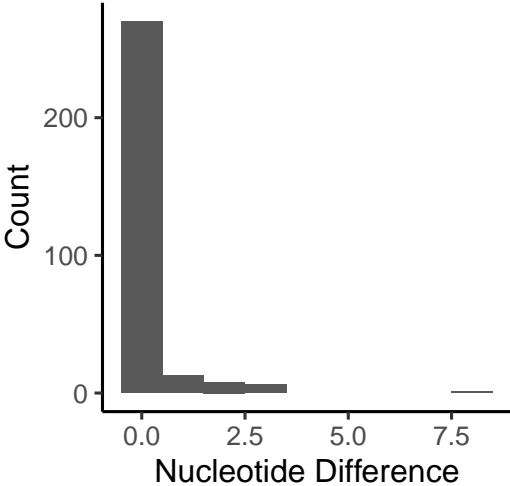
TRBV11-2*ap01

2352 sequences assigned
2329 (99%) exact matches, in which:
2307 unique CDR3
13 unique J



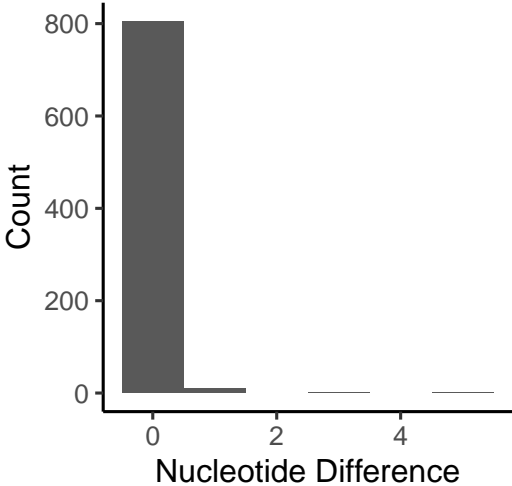
TRBV12-2*ap01

298 sequences assigned
270 (90.6%) exact matches, in which:
259 unique CDR3
13 unique J



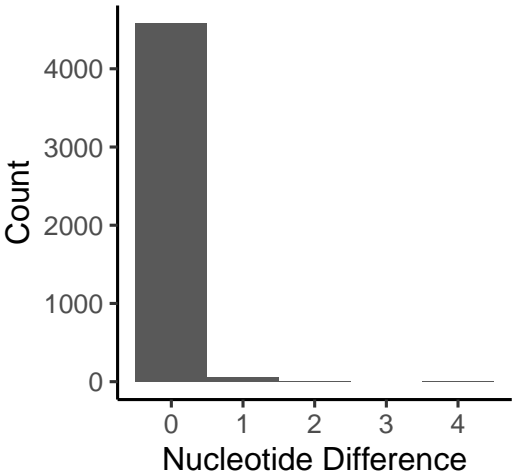
TRBV23-1*ap01

817 sequences assigned
805 (98.5%) exact matches, in which:
787 unique CDR3
13 unique J



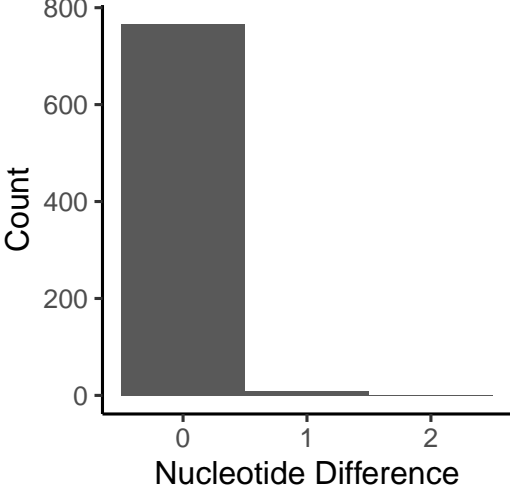
TRBV3-12*ap01

4639 sequences assigned
4580 (98.7%) exact matches, in which:
4493 unique CDR3
13 unique J



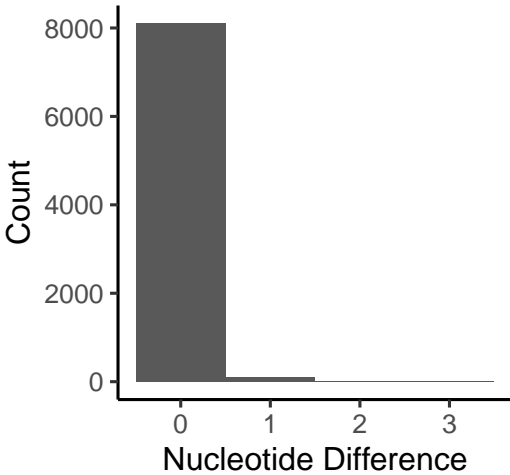
TRBV4-2*ap01

777 sequences assigned
767 (98.7%) exact matches, in which:
750 unique CDR3
13 unique J



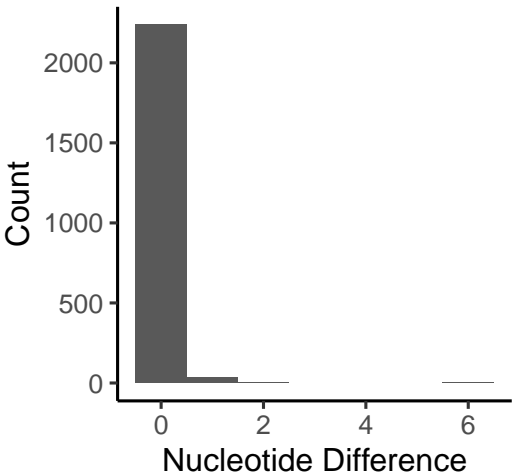
TRBV5-1*ap01

8209 sequences assigned
8103 (98.7%) exact matches, in which:
7905 unique CDR3
13 unique J



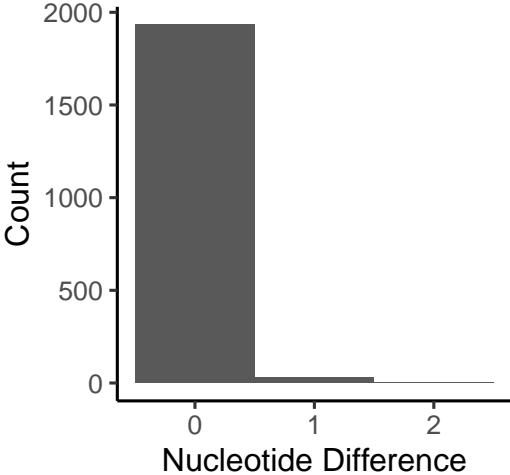
TRBV4-1*ap01

2277 sequences assigned
2238 (98.3%) exact matches, in which:
2201 unique CDR3
13 unique J



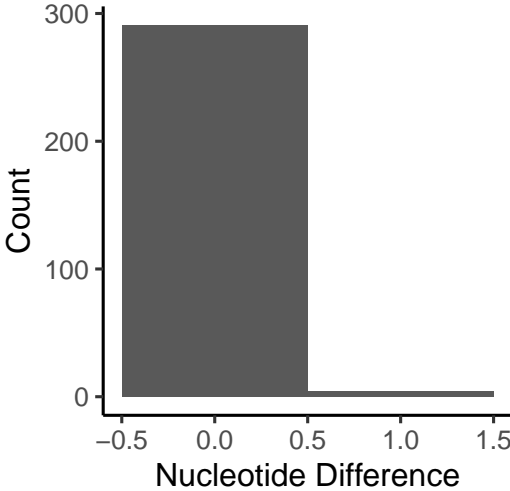
TRBV4-3*ap01

1965 sequences assigned
1933 (98.4%) exact matches, in which:
1899 unique CDR3
13 unique J



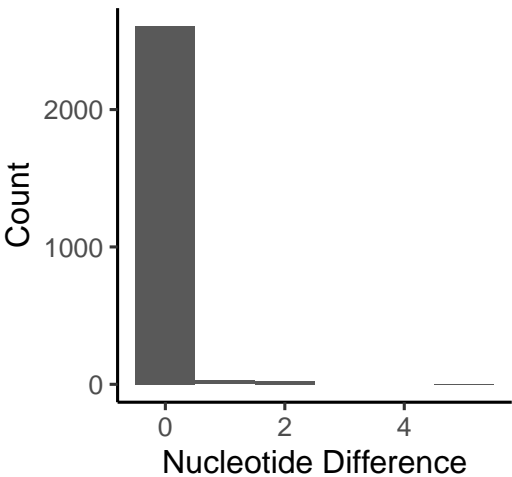
TRBV5-3*ap01

295 sequences assigned
291 (98.6%) exact matches, in which:
282 unique CDR3
13 unique J



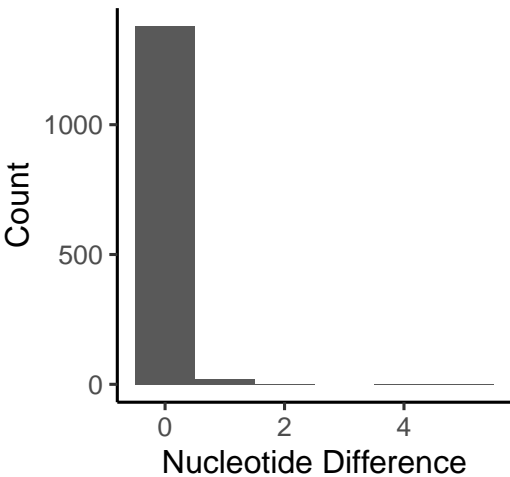
TRBV24-1*ap01

2661 sequences assigned
2608 (98%) exact matches, in which:
2553 unique CDR3
13 unique J



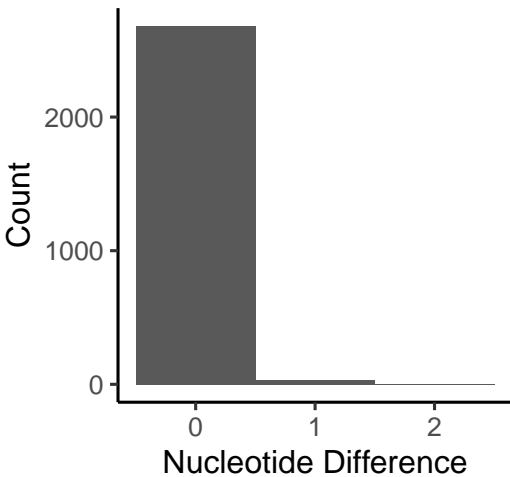
TRBV25-1*ap01

1403 sequences assigned
1380 (98.4%) exact matches, in which:
1356 unique CDR3
13 unique J



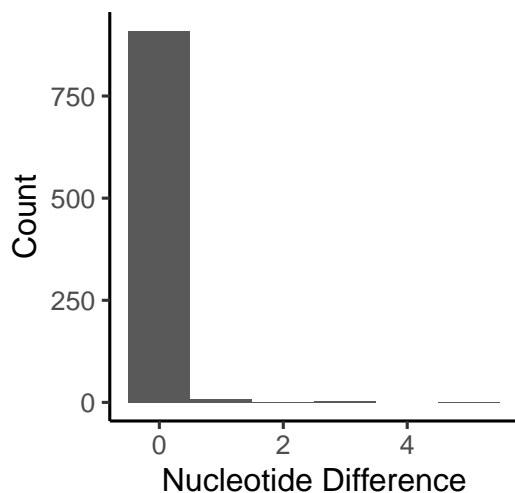
TRBV5-4*ap01

2715 sequences assigned
2681 (98.7%) exact matches, in which:
2629 unique CDR3
13 unique J



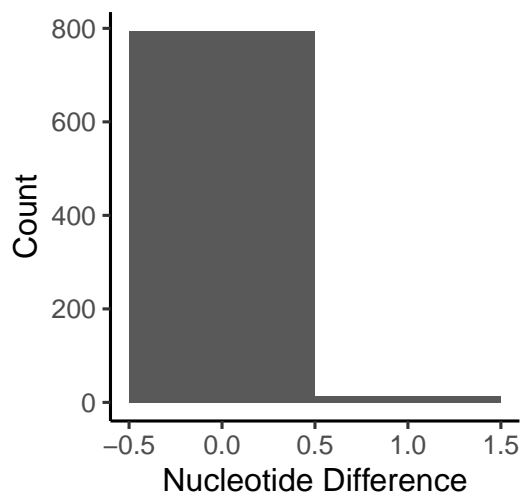
TRBV5-5*ap01

925 sequences assigned
910 (98.4%) exact matches, in which:
904 unique CDR3
13 unique J



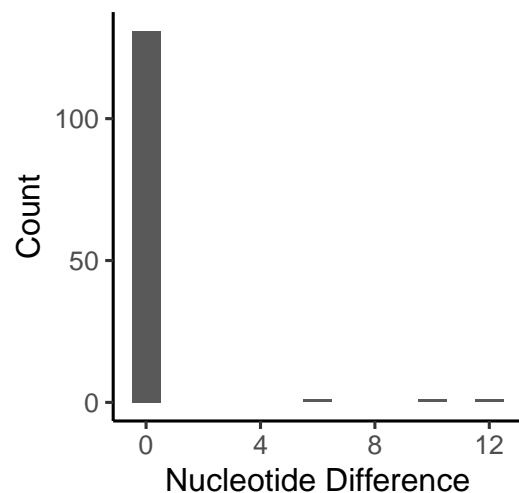
TRBV5-8*ap01

809 sequences assigned
795 (98.3%) exact matches, in which:
788 unique CDR3
13 unique J



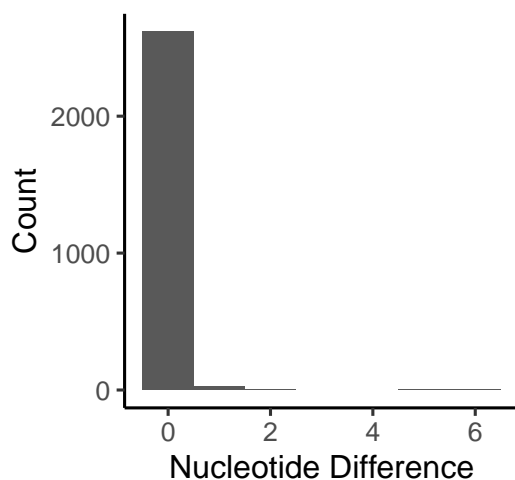
TRBV6-7*ap01

134 sequences assigned
131 (97.8%) exact matches, in which:
128 unique CDR3
13 unique J



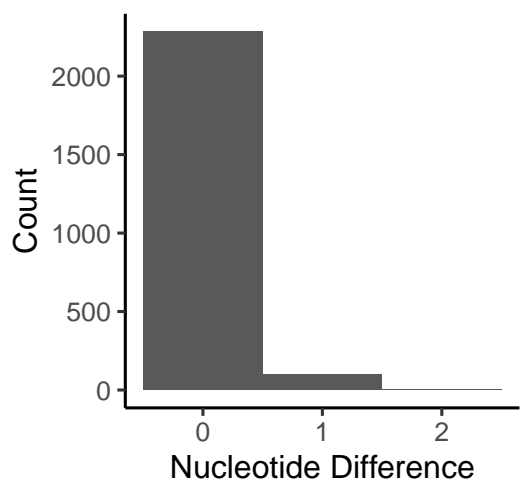
TRBV5-6*ap01

2646 sequences assigned
2617 (98.9%) exact matches, in which:
2542 unique CDR3
13 unique J



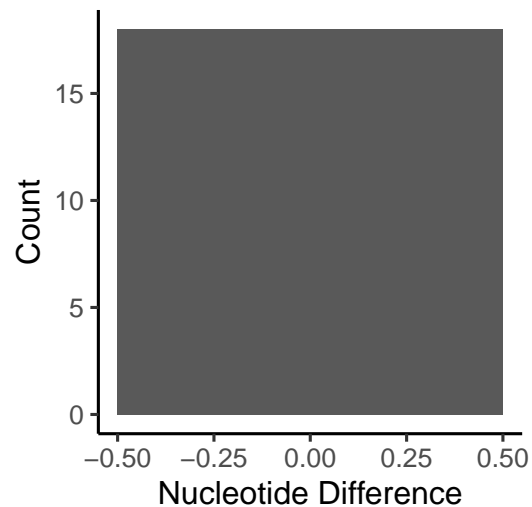
TRBV6-1*ap01

2383 sequences assigned
2283 (95.8%) exact matches, in which:
2242 unique CDR3
13 unique J



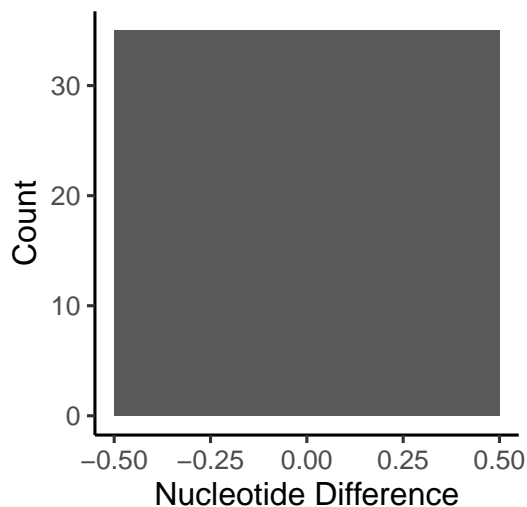
TRBV6-8*ap01_A293G

18 sequences assigned
18 (100%) exact matches, in which:
18 unique CDR3
8 unique J



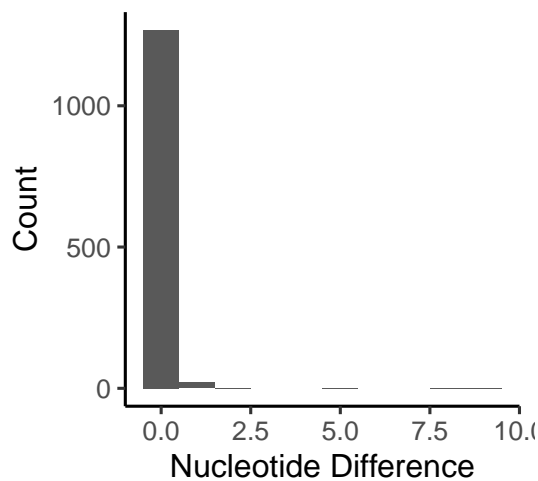
TRBV5-7*ap01_G290A

35 sequences assigned
35 (100%) exact matches, in which:
35 unique CDR3
11 unique J



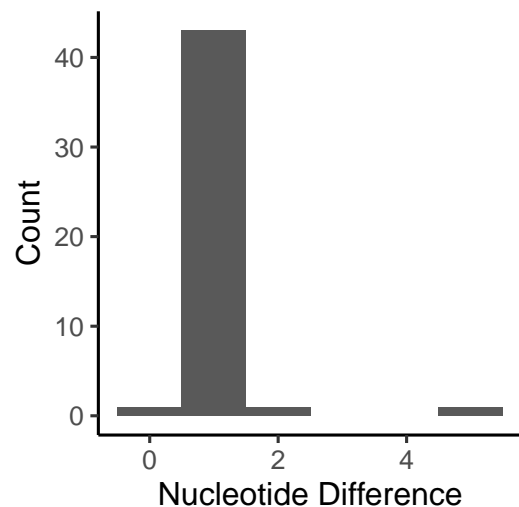
TRBV6-4*ap01

1292 sequences assigned
1268 (98.1%) exact matches, in which:
1261 unique CDR3
13 unique J



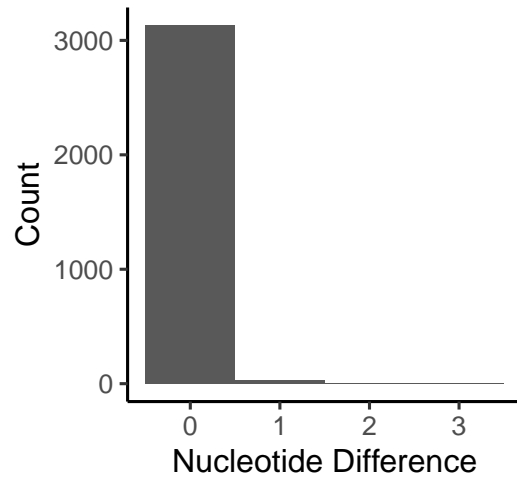
TRBV6-9*ap01

46 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



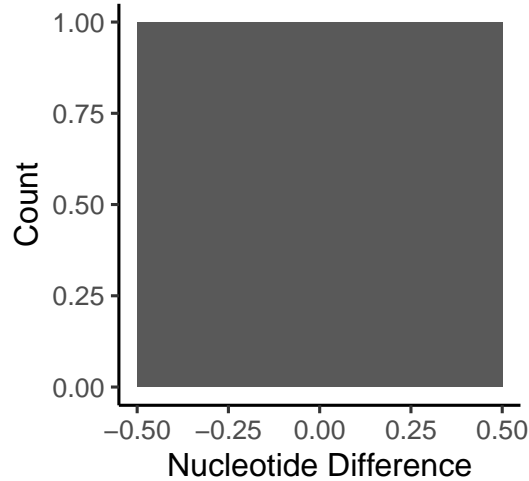
TRBV6-23*ap01

3168 sequences assigned
3131 (98.8%) exact matches, in which:
3063 unique CDR3
13 unique J



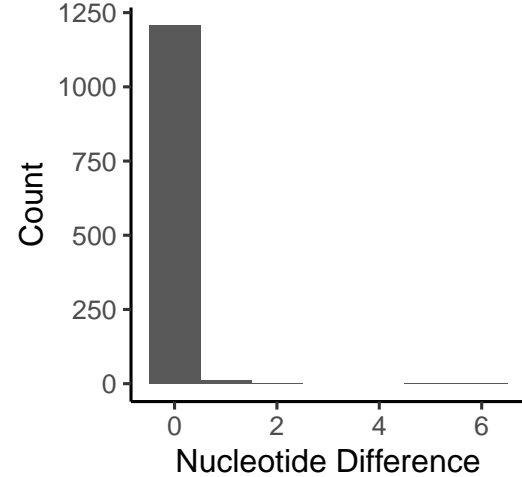
TRBV7-1*ap01

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



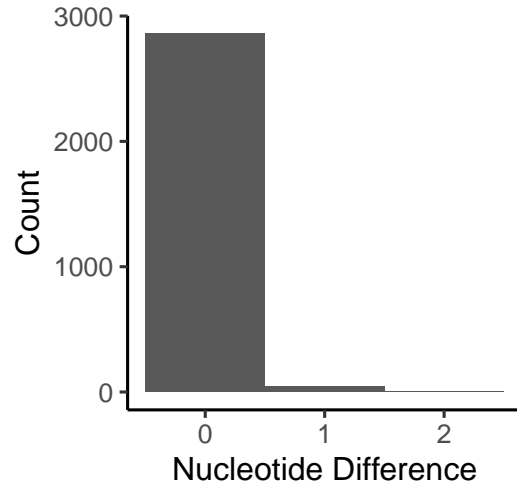
TRBV7-3*ap01

1222 sequences assigned
1207 (98.8%) exact matches, in which:
1191 unique CDR3
13 unique J



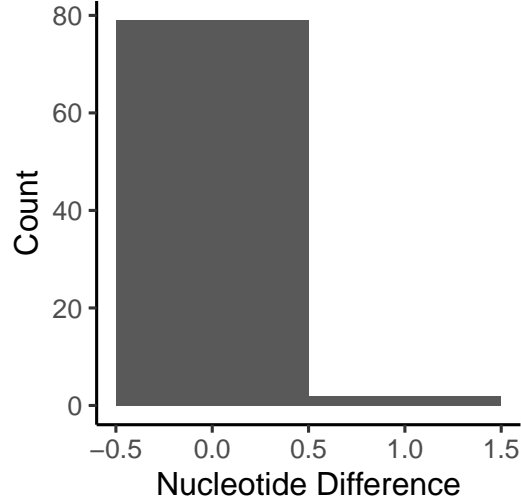
TRBV6-56*ap01

2905 sequences assigned
2859 (98.4%) exact matches, in which:
2795 unique CDR3
13 unique J



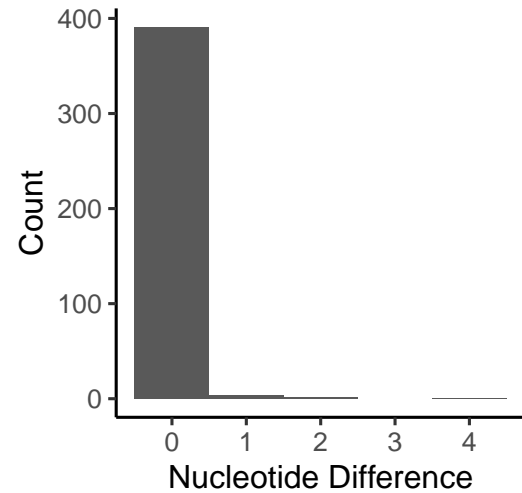
TRBV7-1*ap01_G291C_T

81 sequences assigned
79 (97.5%) exact matches, in which:
79 unique CDR3
11 unique J



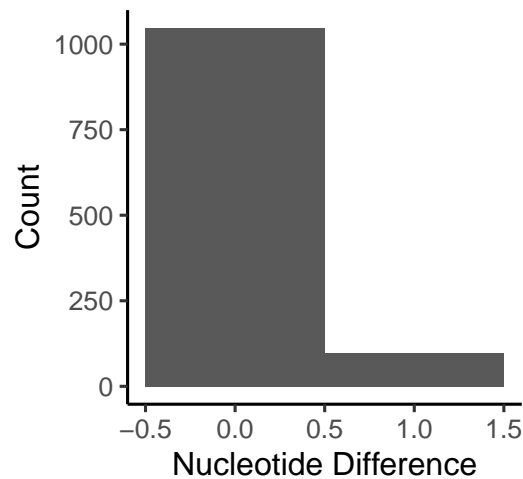
TRBV7-3*ap02

398 sequences assigned
391 (98.2%) exact matches, in which:
388 unique CDR3
13 unique J



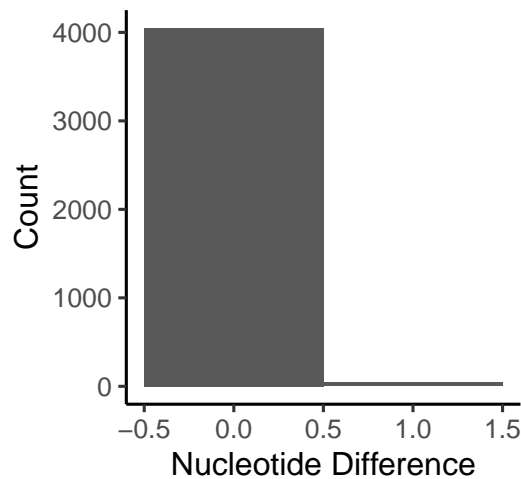
TRBV6-56*ap02

1145 sequences assigned
1047 (91.4%) exact matches, in which:
1028 unique CDR3
13 unique J



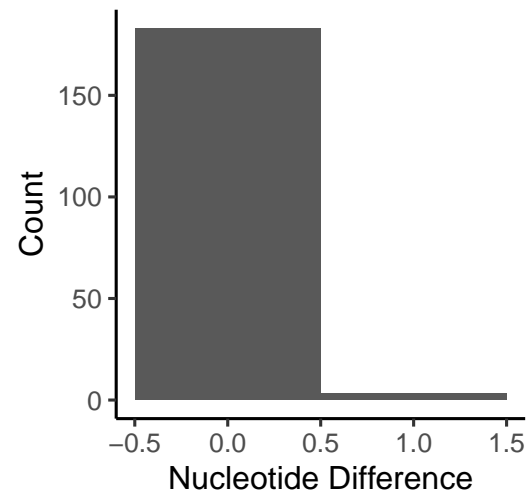
TRBV7-2*ap01

4093 sequences assigned
4049 (98.9%) exact matches, in which:
3986 unique CDR3
13 unique J



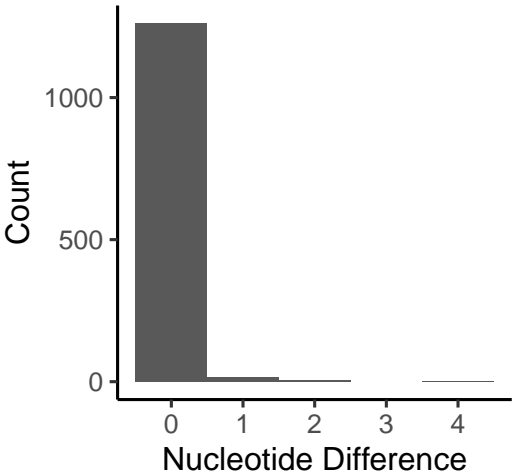
TRBV7-4*ap01

186 sequences assigned
183 (98.4%) exact matches, in which:
181 unique CDR3
13 unique J



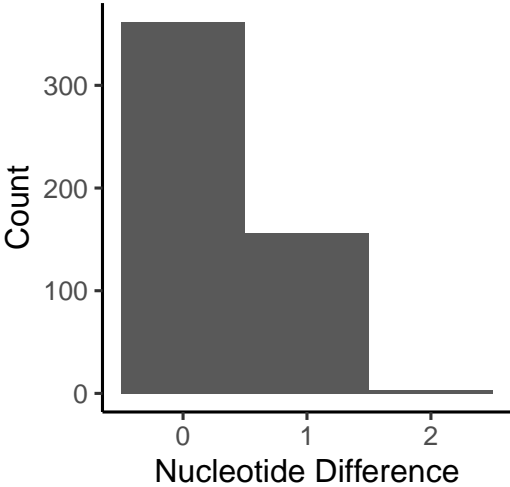
TRBV7-6*ap01

1284 sequences assigned
1261 (98.2%) exact matches, in which:
1236 unique CDR3
13 unique J



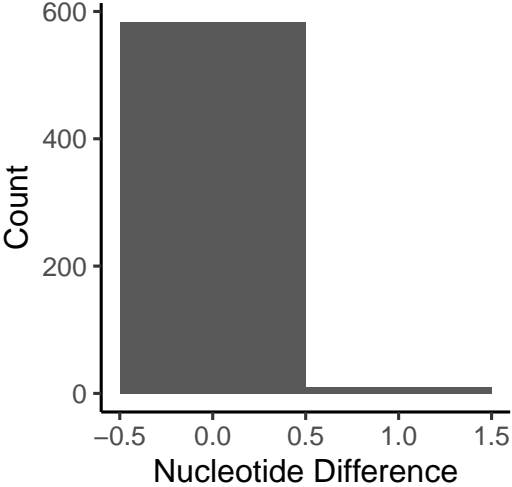
TRBV7-8*ap03

521 sequences assigned
362 (69.5%) exact matches, in which:
352 unique CDR3
13 unique J



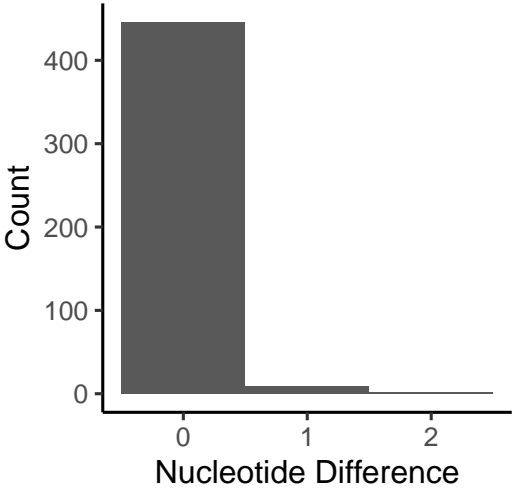
TRBV29-1*ap02

594 sequences assigned
584 (98.3%) exact matches, in which:
570 unique CDR3
13 unique J



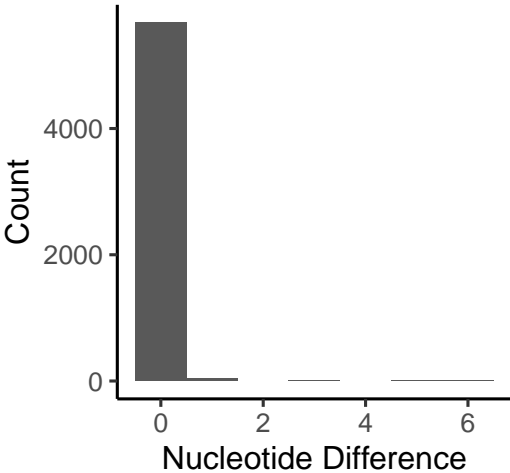
TRBV7-7*ap01

457 sequences assigned
446 (97.6%) exact matches, in which:
438 unique CDR3
13 unique J



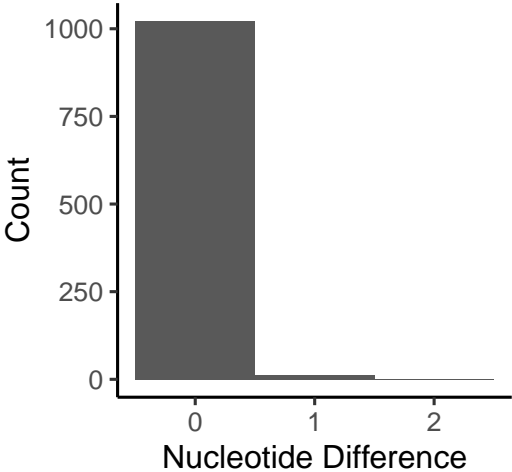
TRBV7-9*ap01

5723 sequences assigned
5676 (99.2%) exact matches, in which:
5619 unique CDR3
13 unique J



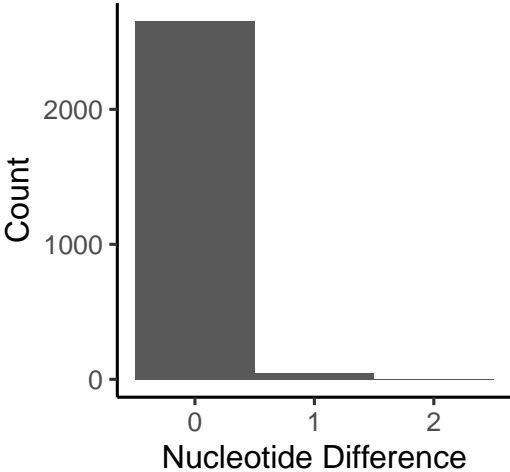
TRBV7-8*ap01

1036 sequences assigned
1022 (98.6%) exact matches, in which:
997 unique CDR3
13 unique J

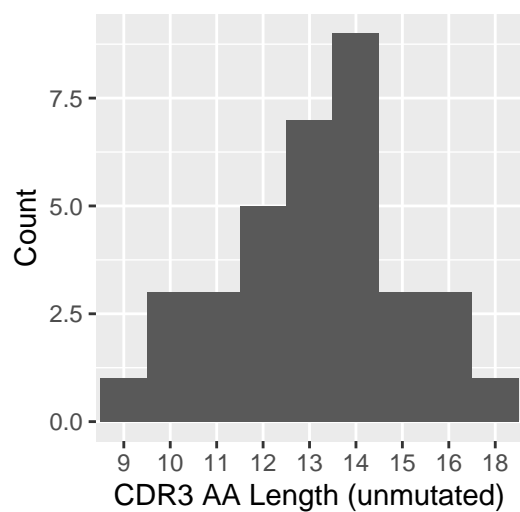


TRBV29-1*ap01

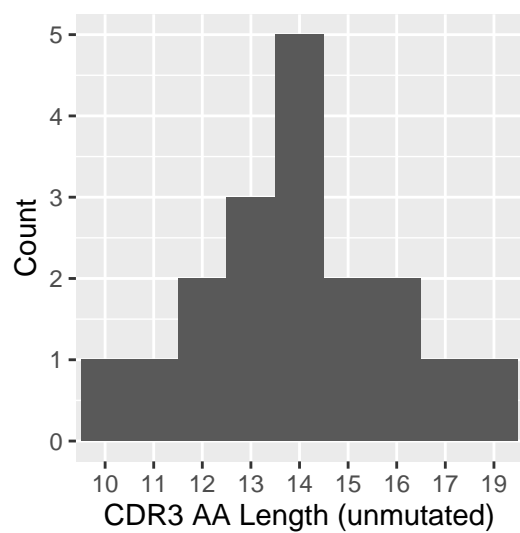
2702 sequences assigned
2654 (98.2%) exact matches, in which:
2604 unique CDR3
13 unique J



TRBV5-7*ap01_G290A



TRBV6-8*ap01_A293G



TRBV7-1*ap01_G291C_T296C

