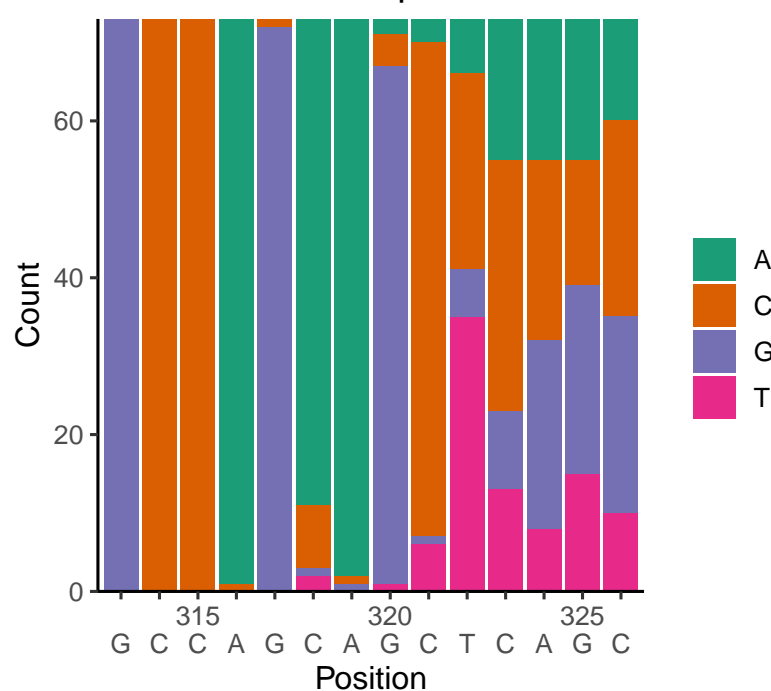
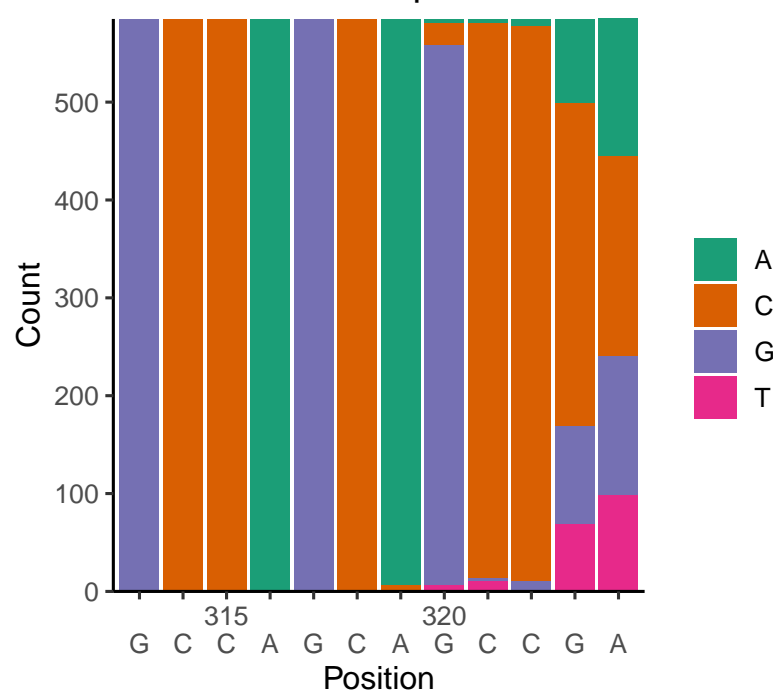


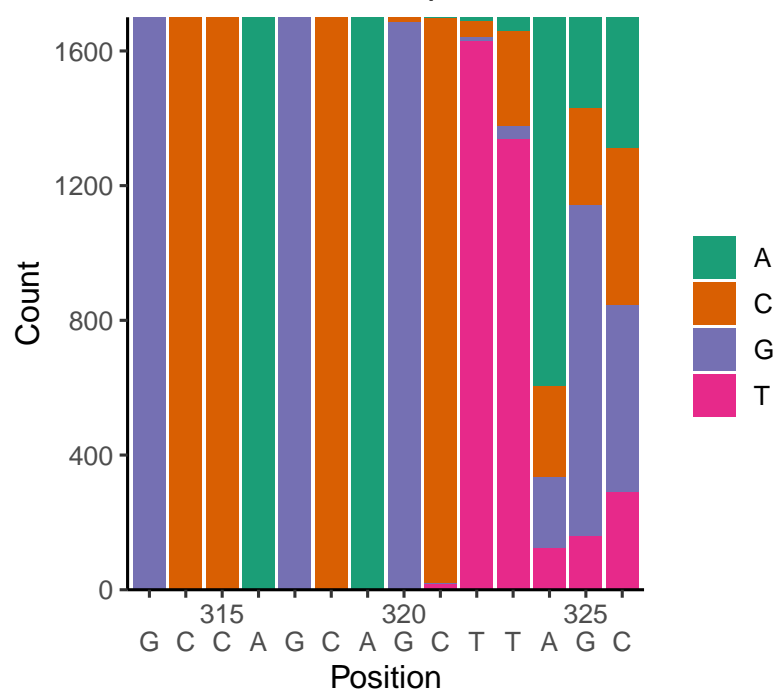
Gene TRBV7-1*ap01_T296C



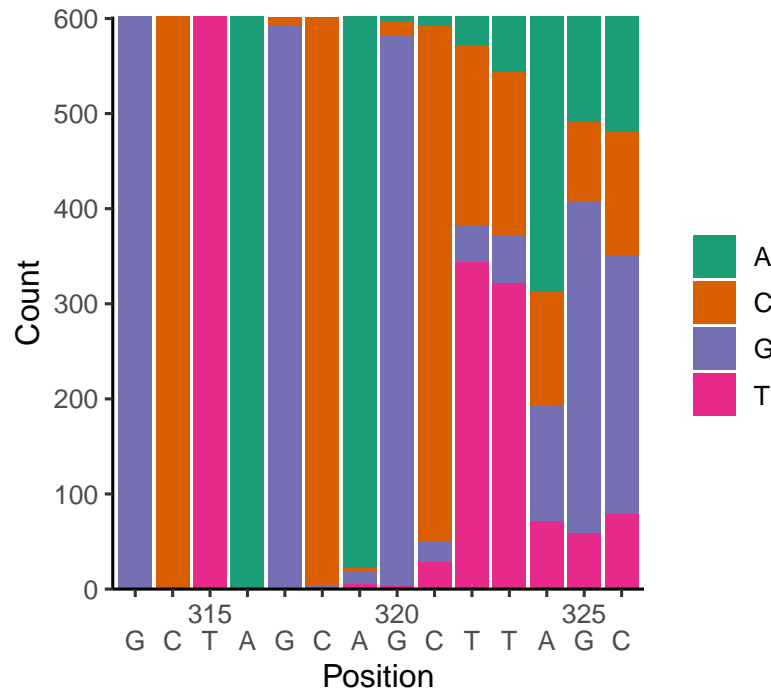
Gene TRBV7-8*ap03_C297A



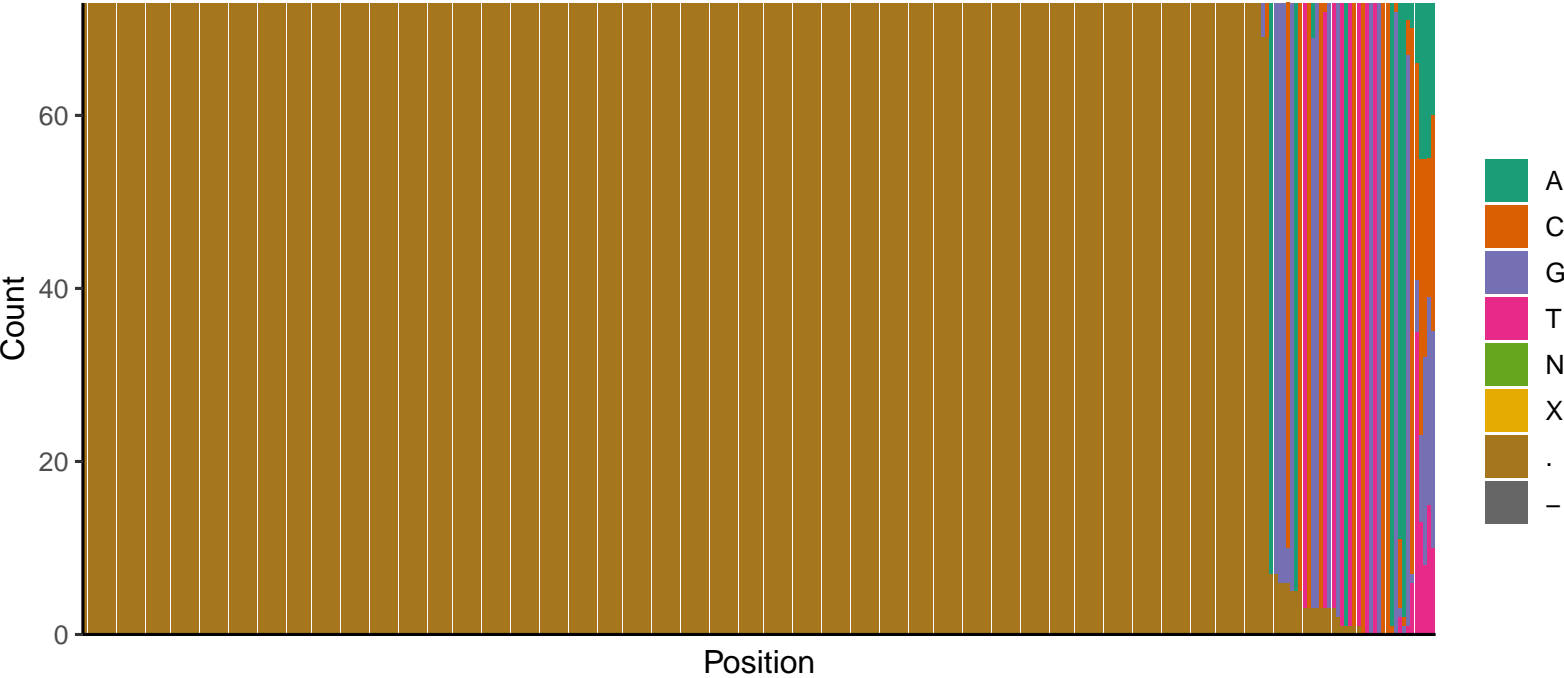
Gene TRBV7-2*ap01_G297A



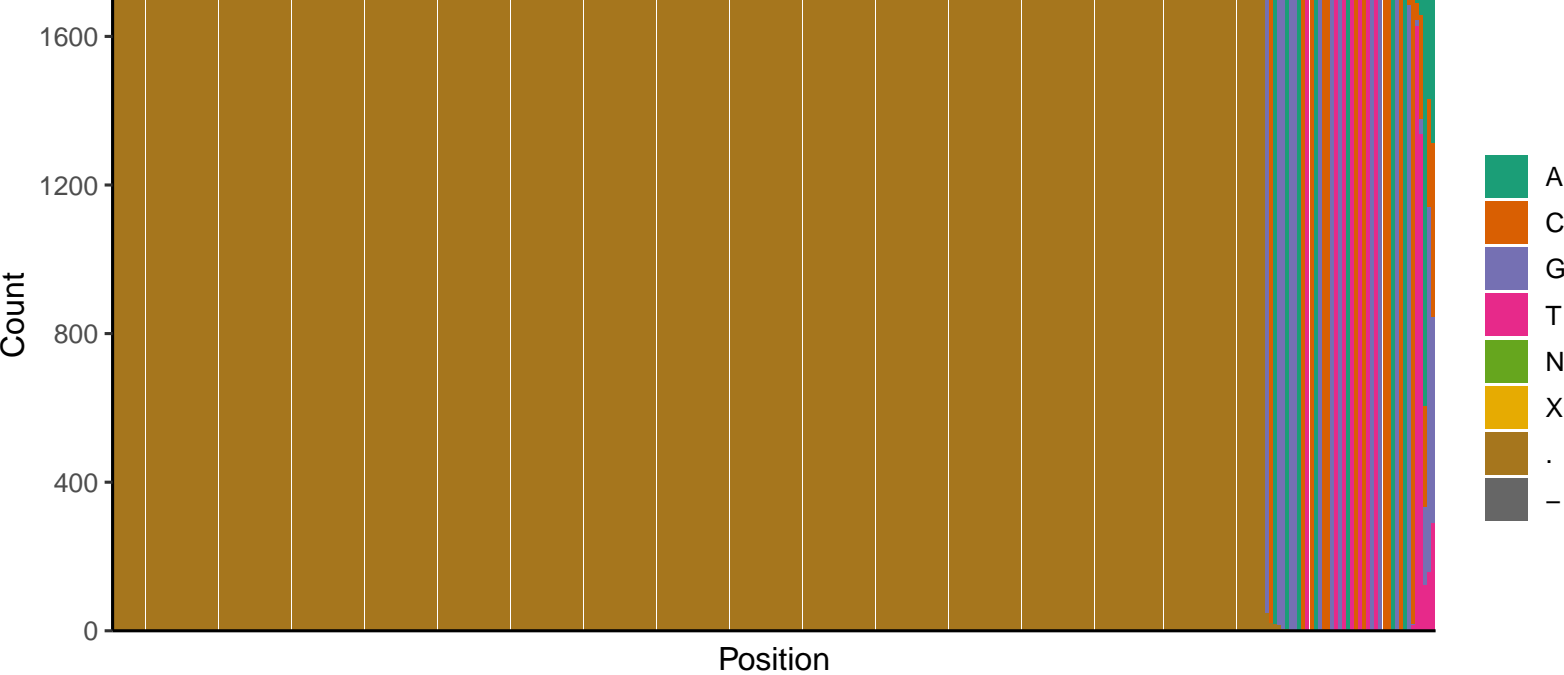
Gene TRBV7-7*ap01_C315T



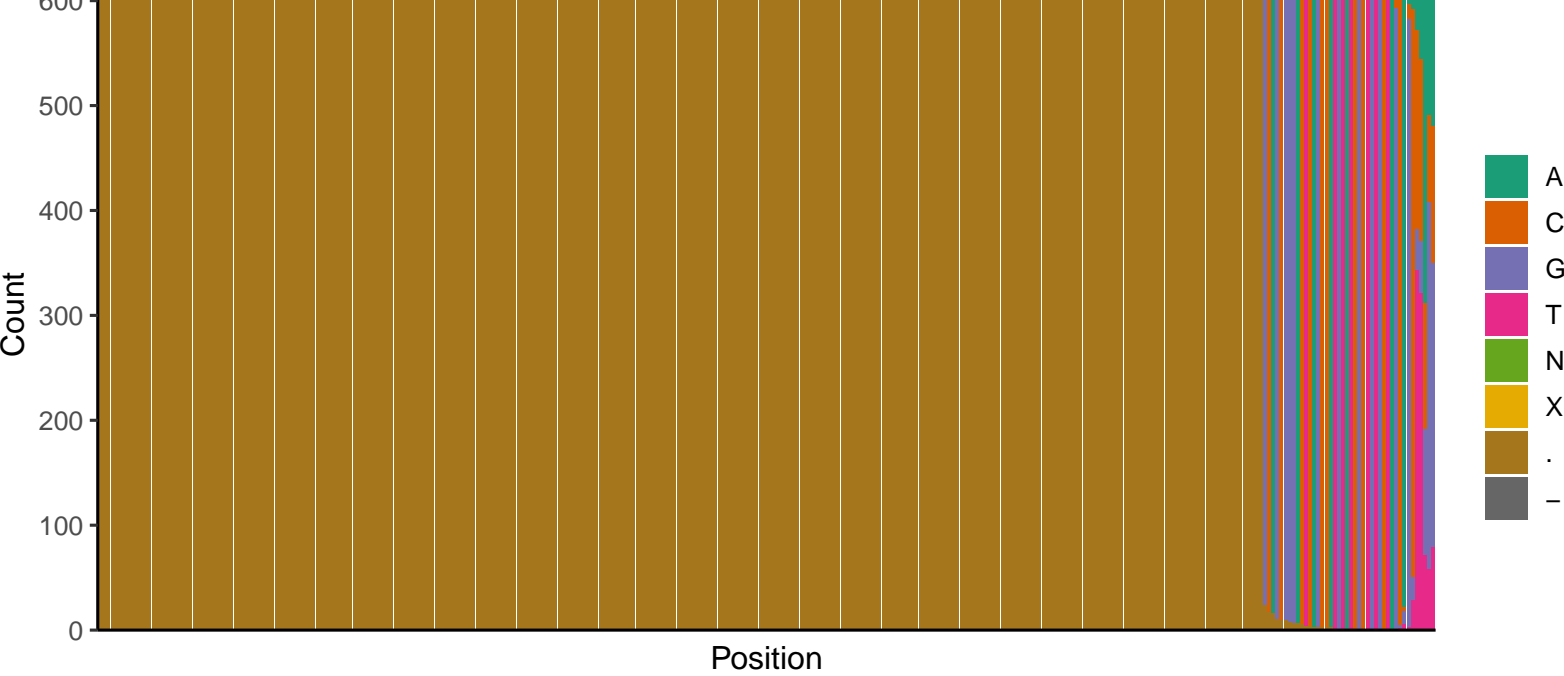
Gene TRBV7-1*ap01_T296C



Gene TRBV7-2*ap01_G297A



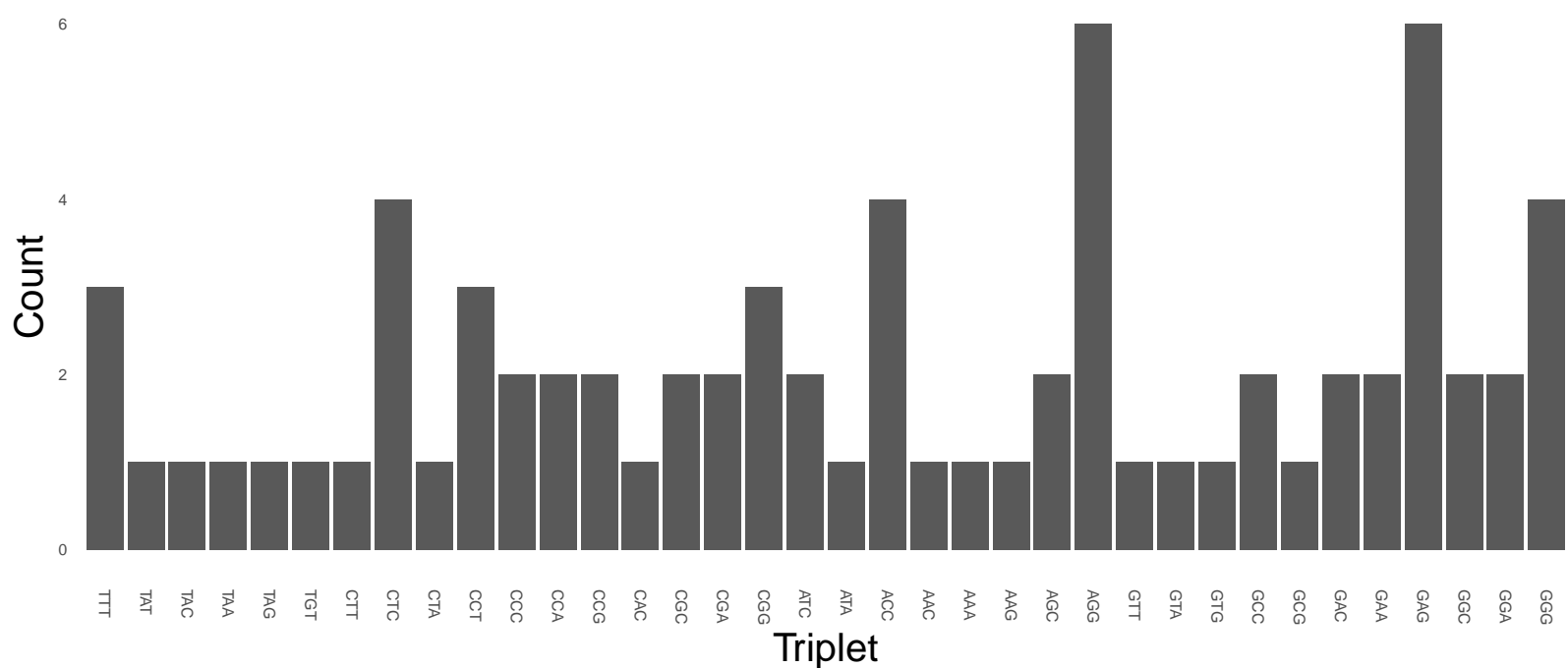
Gene TRBV7-7*ap01_C315T



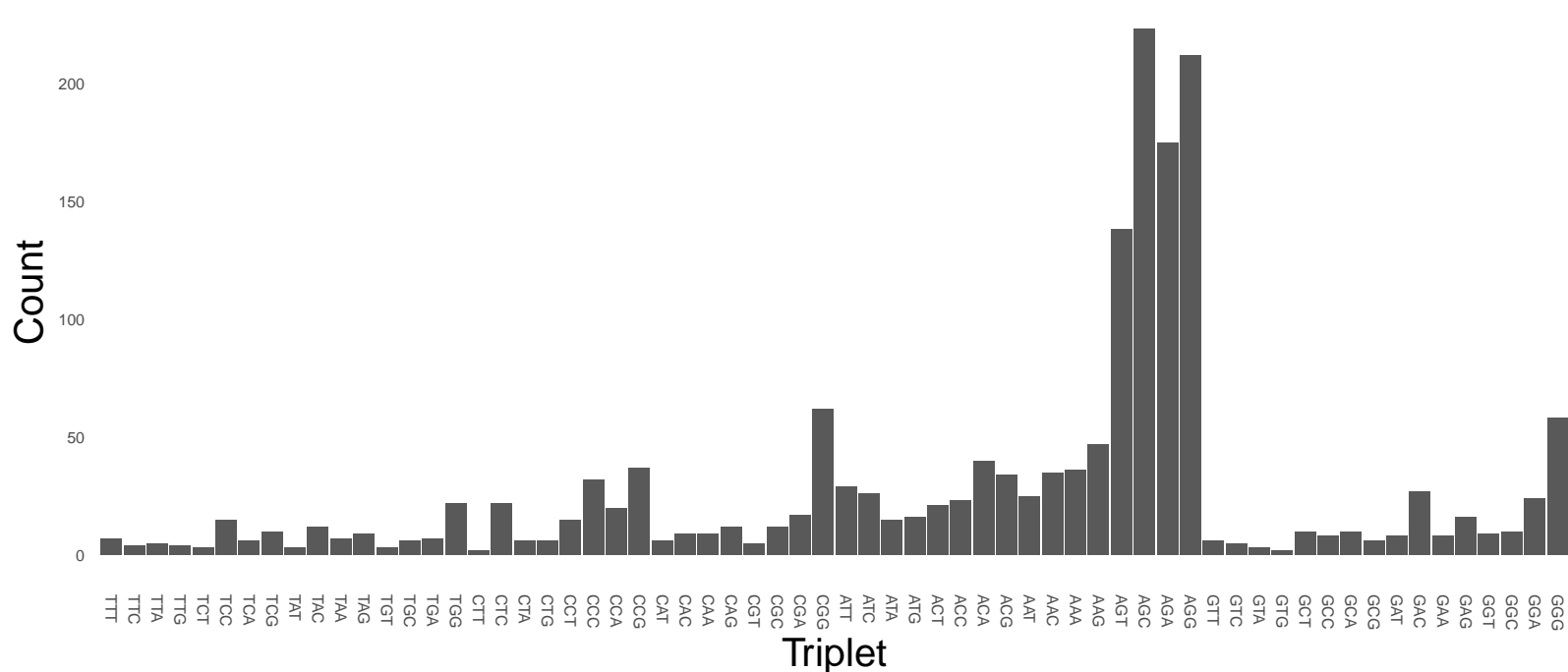
Gene TRBV7-8*ap03_C297A



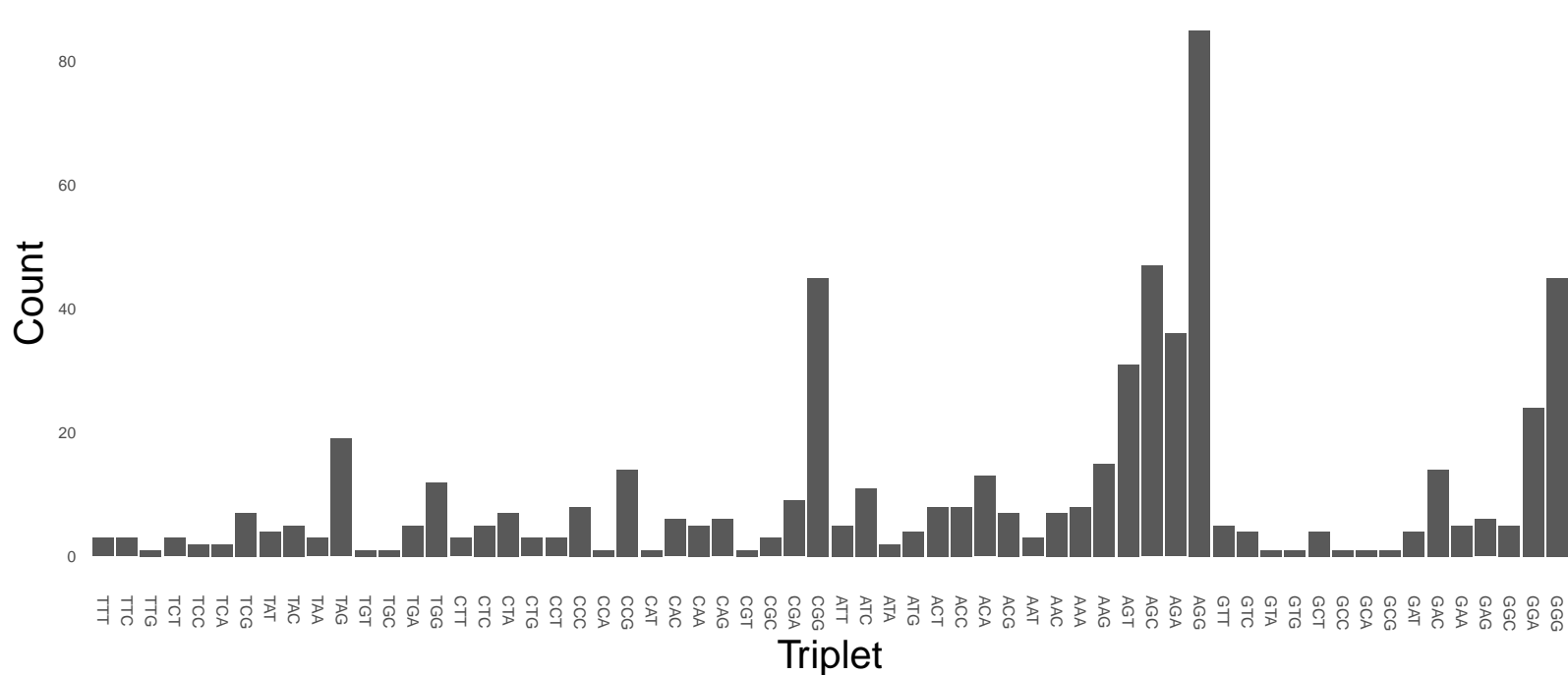
TRBV7-1*ap01_T296C- Final 3 nucleotides as a triplet



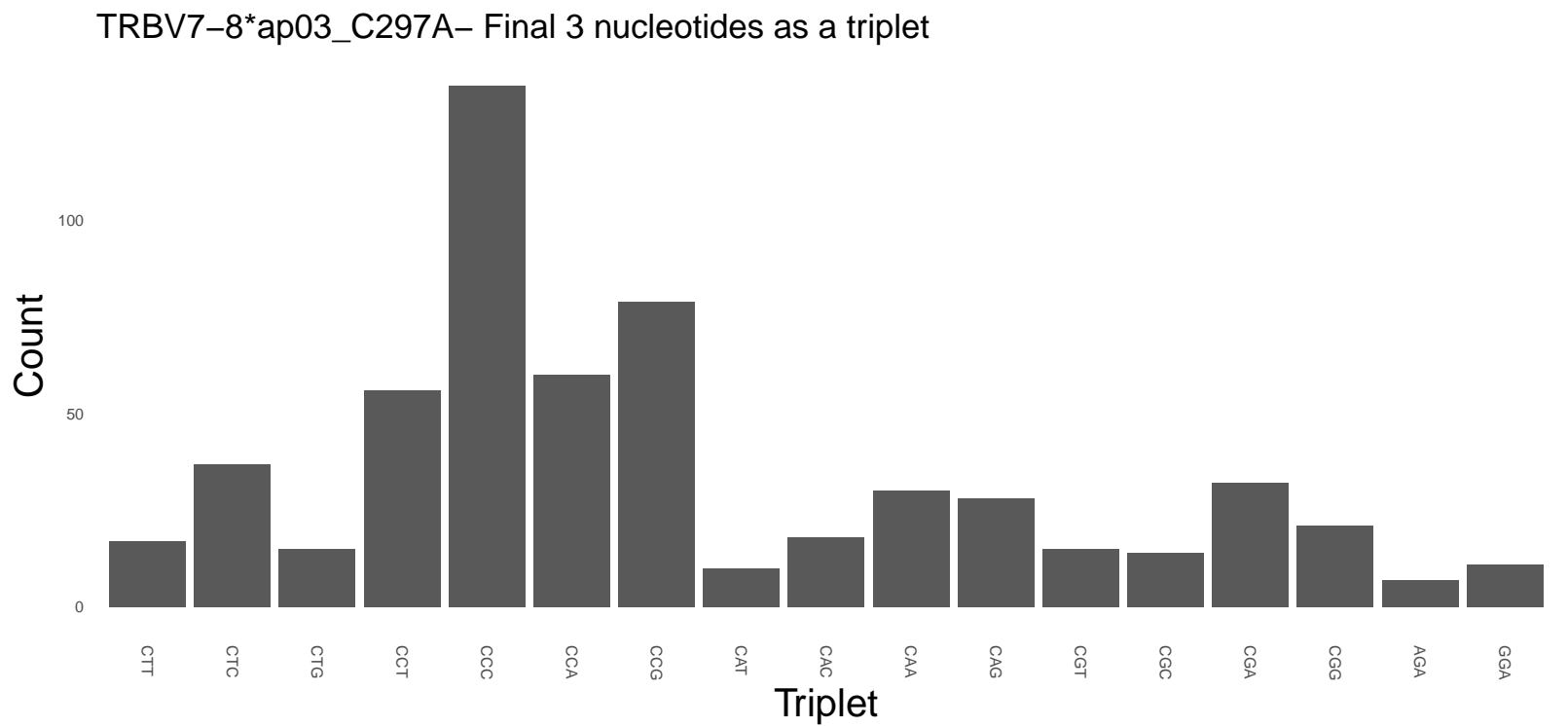
TRBV7-2*ap01_G297A- Final 3 nucleotides as a triplet



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

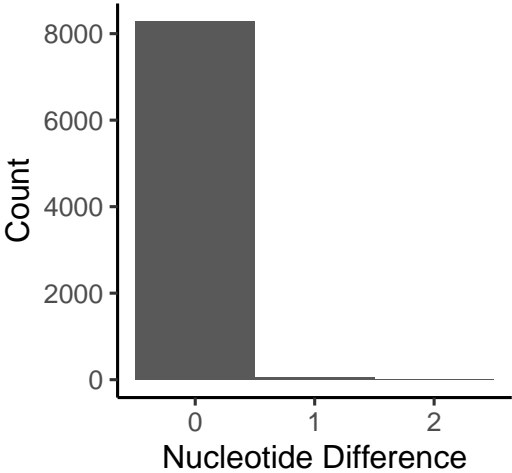


TRBV7-8*ap03_C297A- Final 3 nucleotides as a triplet



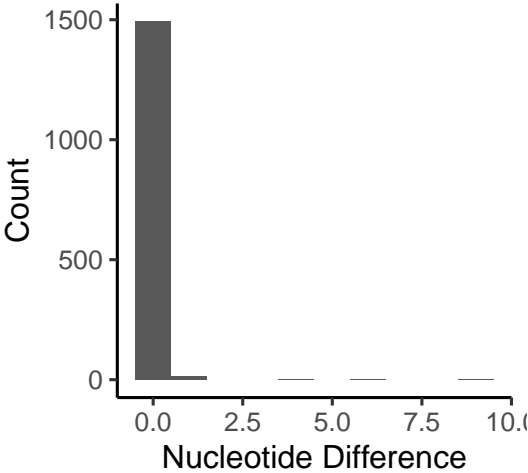
TRBV20-1*ap01

8346 sequences assigned
8283 (99.2%) exact matches, in which:
8243 unique CDR3
13 unique J



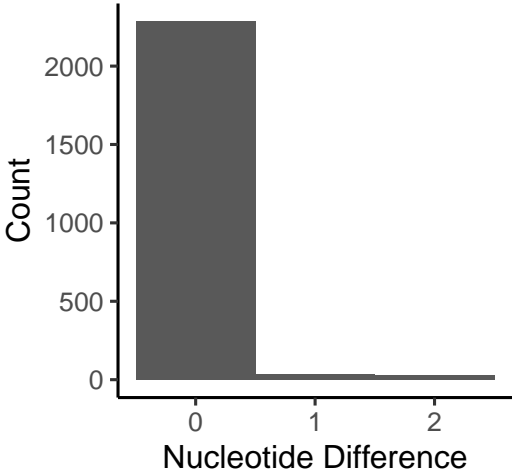
TRBV10-2*ap01

1512 sequences assigned
1493 (98.7%) exact matches, in which:
1485 unique CDR3
13 unique J



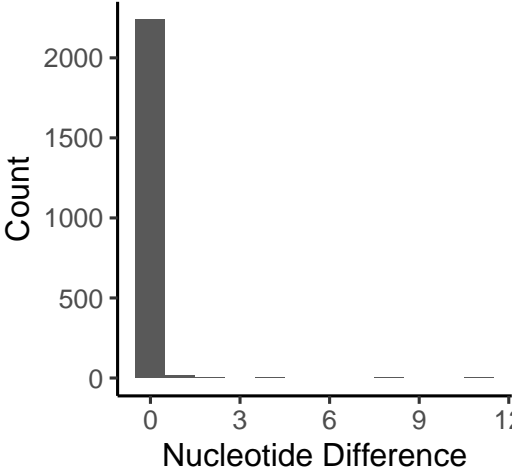
TRBV13*ap01

2353 sequences assigned
2285 (97.1%) exact matches, in which:
2251 unique CDR3
13 unique J



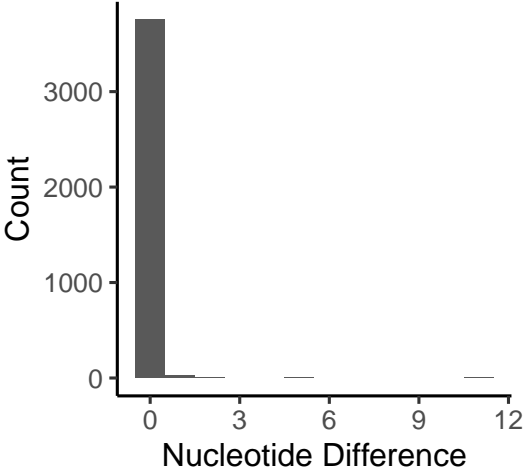
TRBV10-1*ap01

2256 sequences assigned
2238 (99.2%) exact matches, in which:
2218 unique CDR3
13 unique J



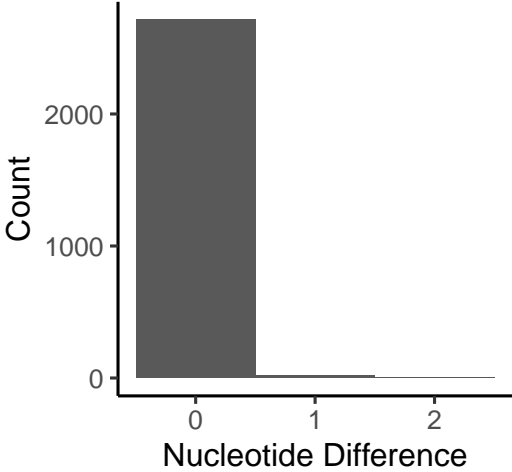
TRBV10-3*ap01

3779 sequences assigned
3753 (99.3%) exact matches, in which:
3730 unique CDR3
13 unique J



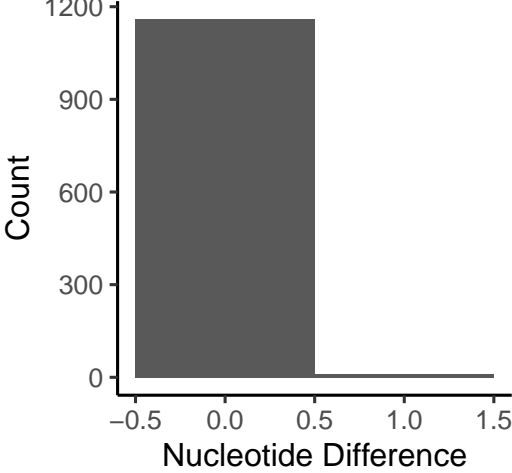
TRBV14*ap01

2731 sequences assigned
2714 (99.4%) exact matches, in which:
2703 unique CDR3
13 unique J



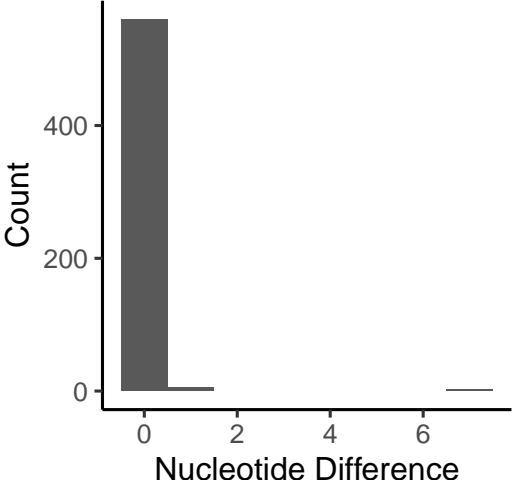
TRBV20-1*ap02

1170 sequences assigned
1160 (99.1%) exact matches, in which:
1153 unique CDR3
13 unique J



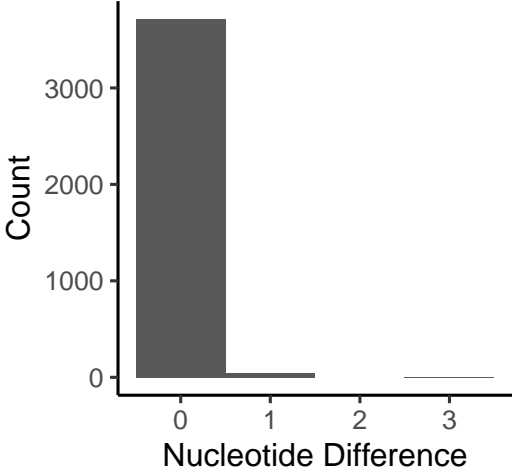
TRBV1*ap01

567 sequences assigned
560 (98.8%) exact matches, in which:
547 unique CDR3
13 unique J



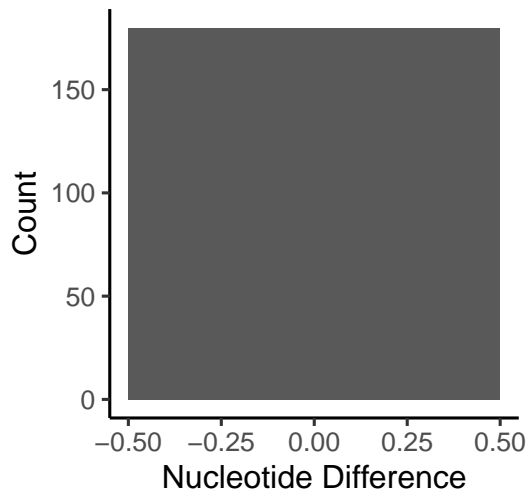
TRBV15*ap02

3759 sequences assigned
3714 (98.8%) exact matches, in which:
3682 unique CDR3
13 unique J



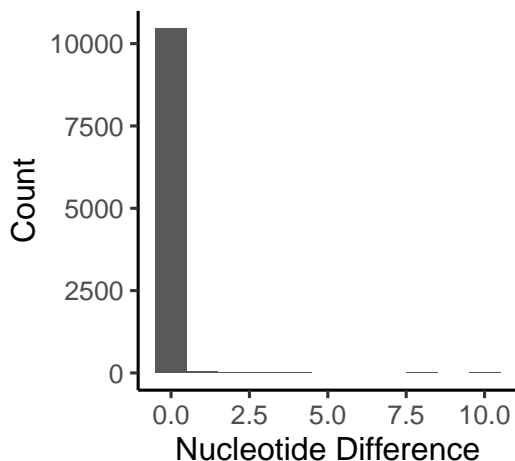
TRBV16*ap01

180 sequences assigned
180 (100%) exact matches, in which:
180 unique CDR3
11 unique J



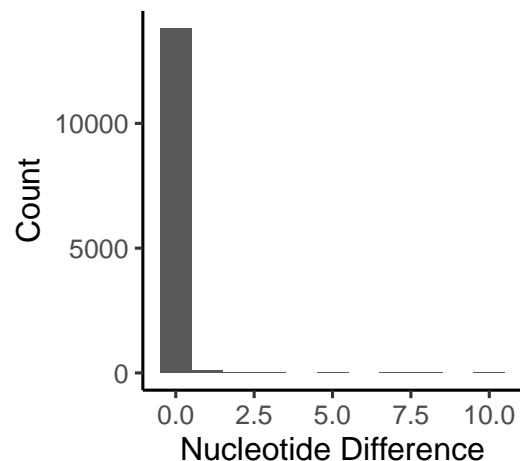
TRBV19*ap01

10538 sequences assigned
10470 (99.4%) exact matches, in which:
10422 unique CDR3
13 unique J



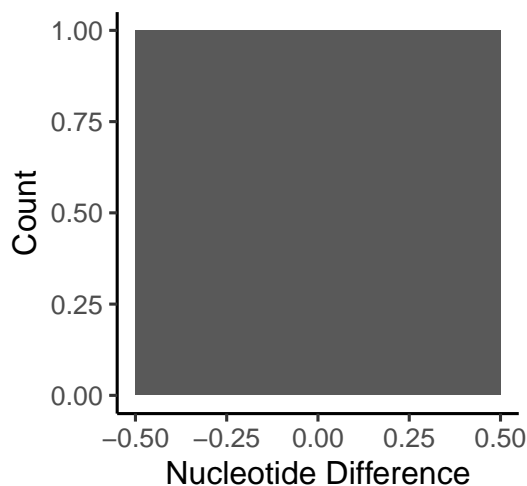
TRBV27*ap01

13938 sequences assigned
13817 (99.1%) exact matches, in which:
13744 unique CDR3
13 unique J



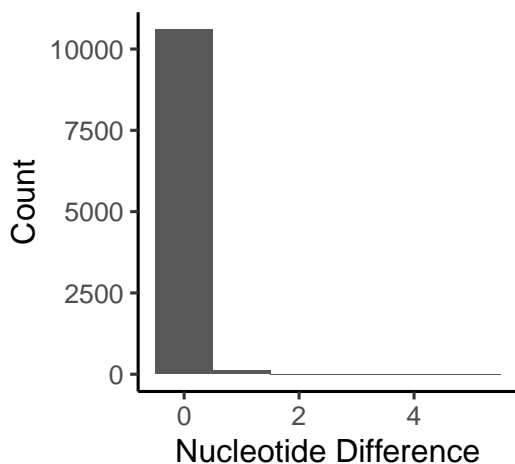
TRBV17*ap01

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



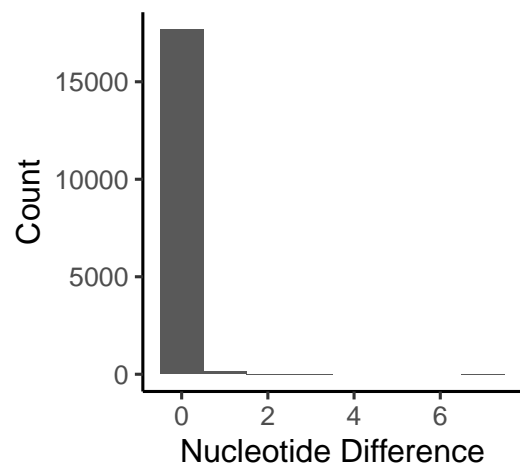
TRBV2*ap01

10721 sequences assigned
10601 (98.9%) exact matches, in which:
10526 unique CDR3
13 unique J



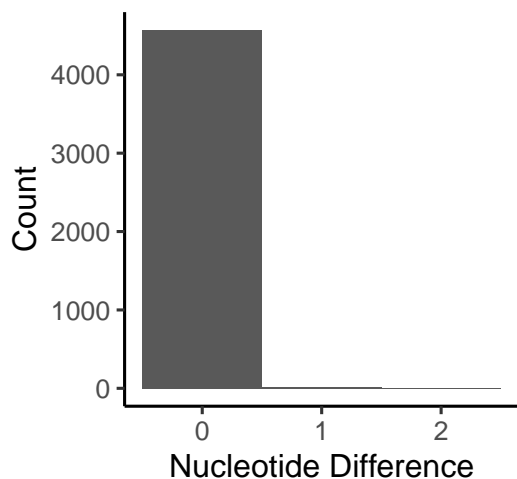
TRBV28*ap01

17821 sequences assigned
17682 (99.2%) exact matches, in which:
17586 unique CDR3
13 unique J



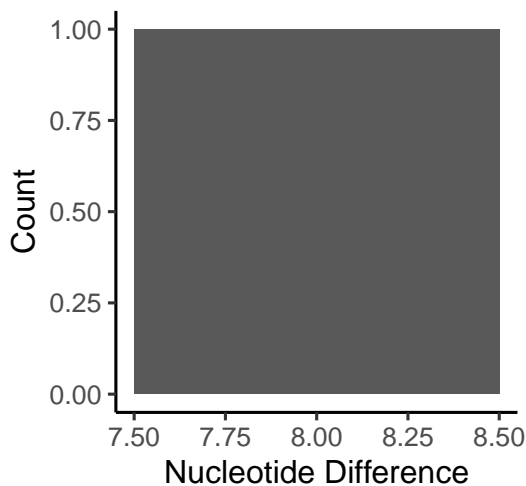
TRBV18*ap01

4592 sequences assigned
4571 (99.5%) exact matches, in which:
4557 unique CDR3
13 unique J



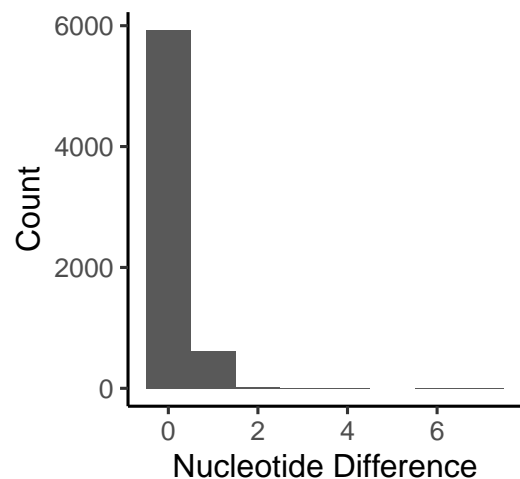
TRBV26*ap01

1 sequences assigned
No exact matches.



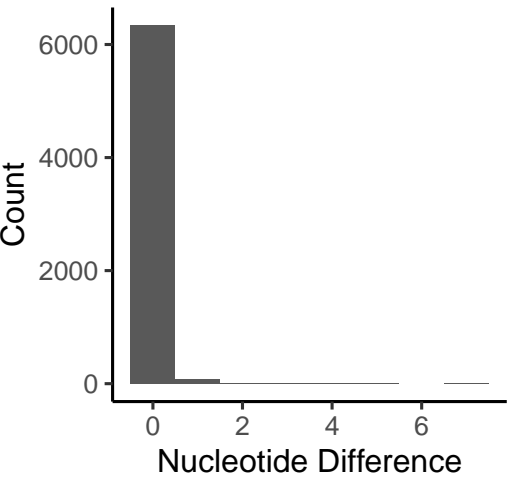
TRBV30*ap01

6581 sequences assigned
5928 (90.1%) exact matches, in which:
5748 unique CDR3
13 unique J



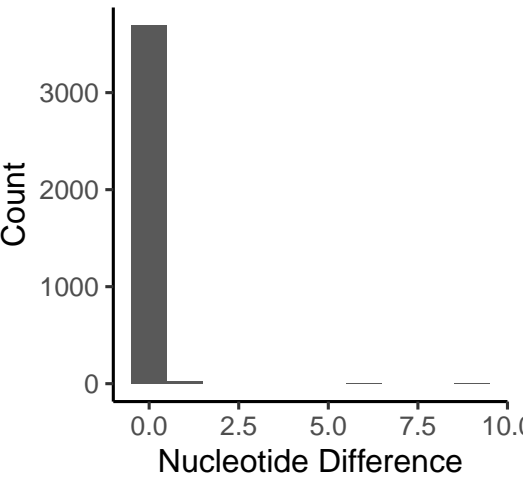
TRBV9*ap01

6428 sequences assigned
6338 (98.6%) exact matches, in which:
6306 unique CDR3
13 unique J



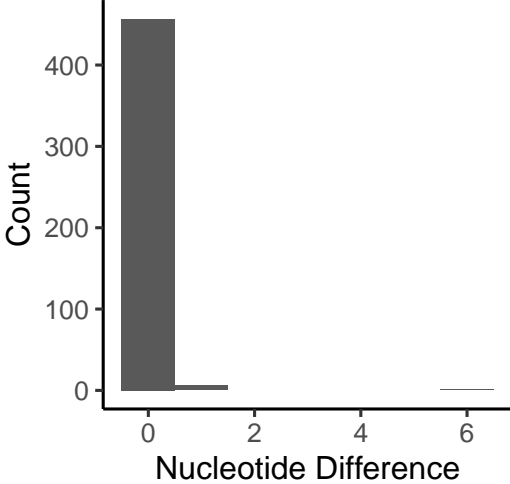
TRBV11-2*ap01

3716 sequences assigned
3693 (99.4%) exact matches, in which:
3679 unique CDR3
13 unique J



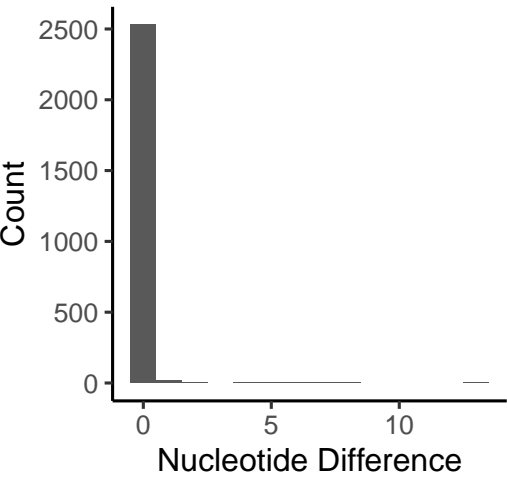
TRBV12-2*ap01

464 sequences assigned
457 (98.5%) exact matches, in which:
455 unique CDR3
13 unique J



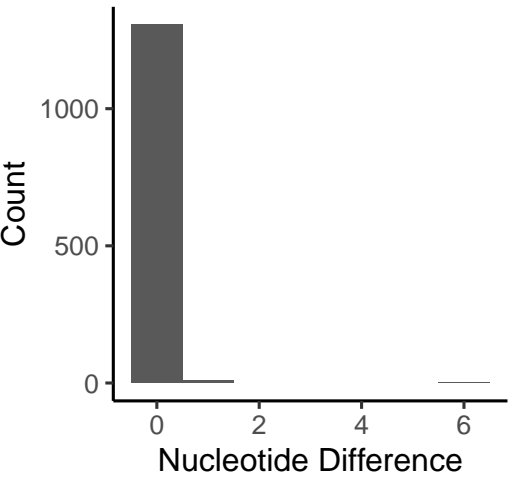
TRBV21-1*ap01

2563 sequences assigned
2530 (98.7%) exact matches, in which:
2527 unique CDR3
13 unique J



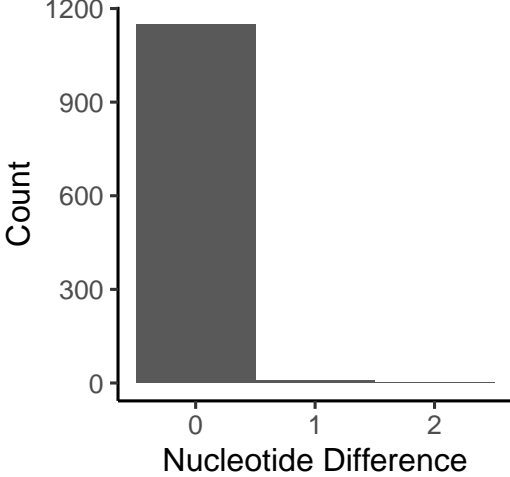
TRBV11-3*ap01

1316 sequences assigned
1306 (99.2%) exact matches, in which:
1302 unique CDR3
12 unique J



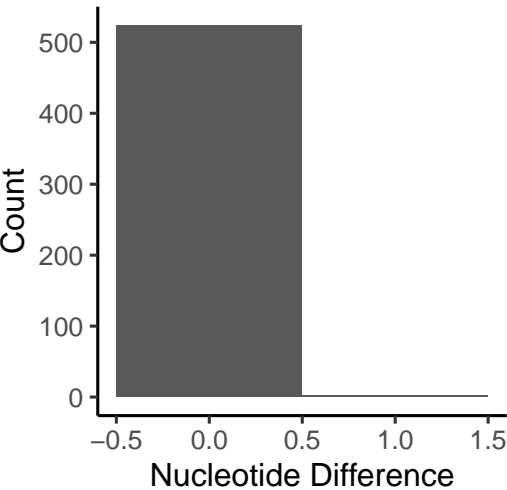
TRBV12-5*ap01

1156 sequences assigned
1148 (99.3%) exact matches, in which:
1140 unique CDR3
13 unique J



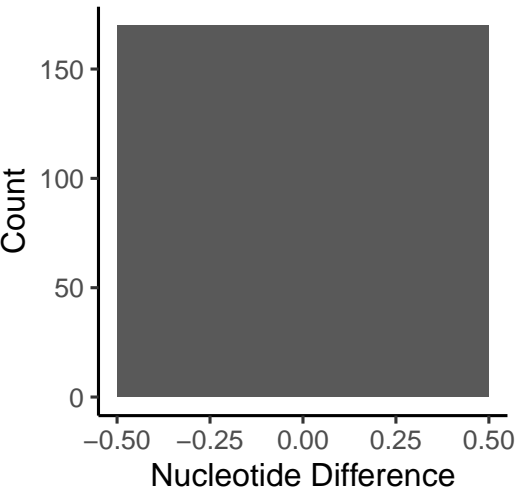
TRBV11-1*ap01

526 sequences assigned
524 (99.6%) exact matches, in which:
523 unique CDR3
12 unique J



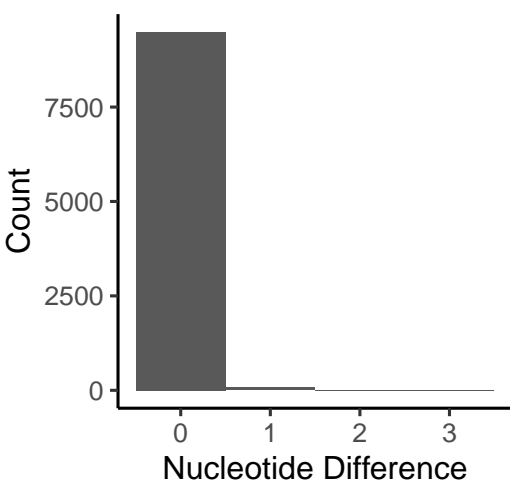
TRBV12-1*ap01

170 sequences assigned
170 (100%) exact matches, in which:
168 unique CDR3
12 unique J



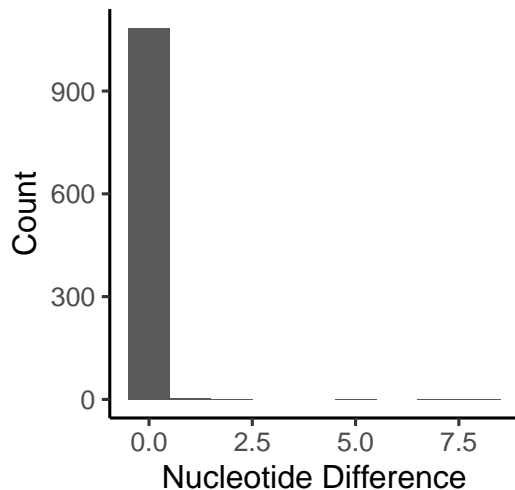
TRBV12-34*ap01

9567 sequences assigned
9486 (99.2%) exact matches, in which:
9413 unique CDR3
13 unique J



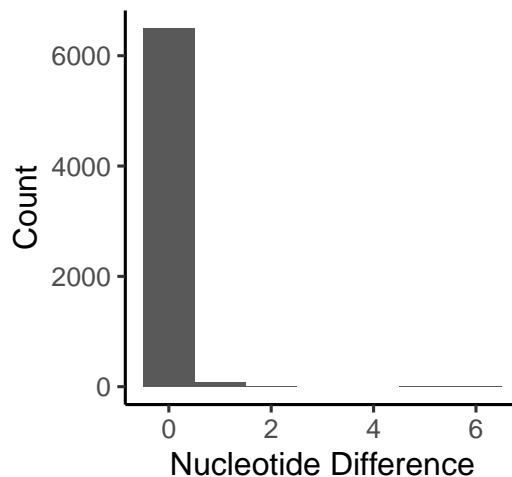
TRBV23–1*ap01

1092 sequences assigned
1085 (99.4%) exact matches, in which:
1083 unique CDR3
13 unique J



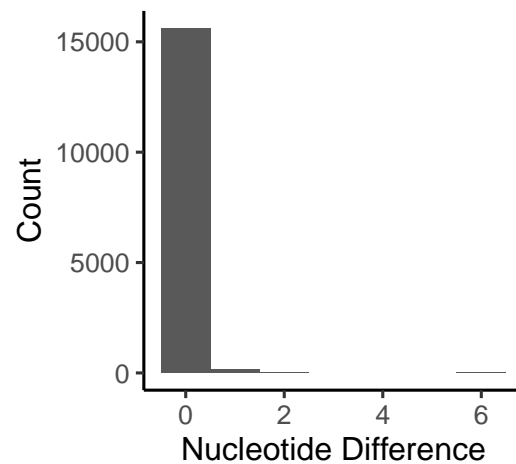
TRBV24–1*ap01

6577 sequences assigned
6495 (98.8%) exact matches, in which:
6422 unique CDR3
13 unique J



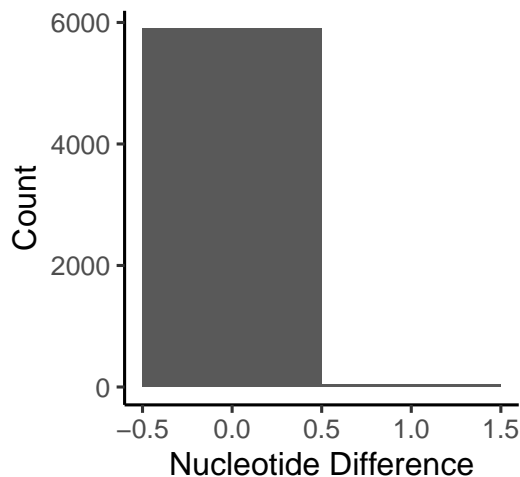
TRBV5–1*ap01

15782 sequences assigned
15619 (99%) exact matches, in which:
15485 unique CDR3
13 unique J



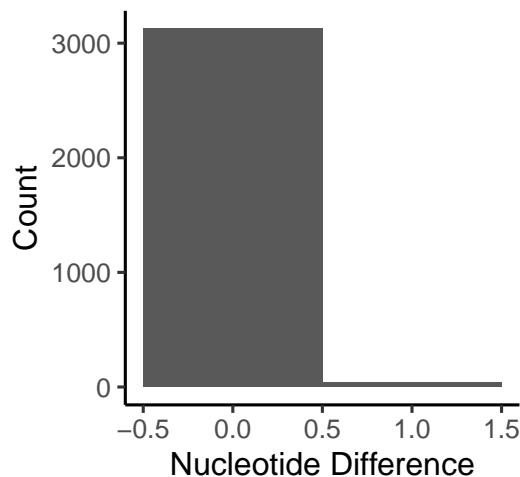
TRBV3–12*ap01

5933 sequences assigned
5897 (99.4%) exact matches, in which:
5874 unique CDR3
13 unique J



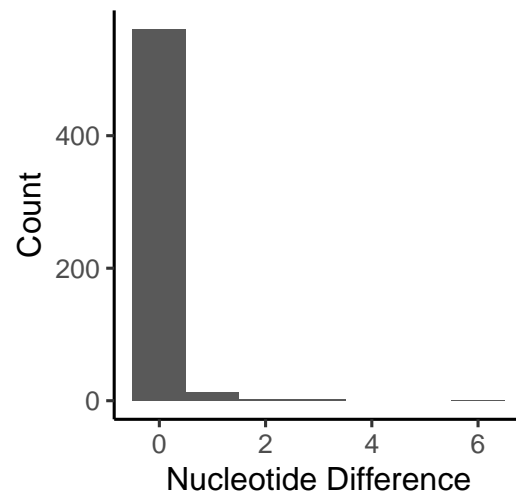
TRBV4–2*ap01

3165 sequences assigned
3126 (98.8%) exact matches, in which:
3094 unique CDR3
13 unique J



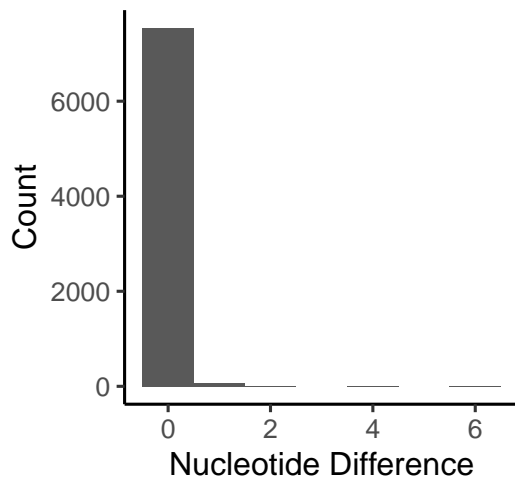
TRBV5–3*ap01

579 sequences assigned
561 (96.9%) exact matches, in which:
559 unique CDR3
13 unique J



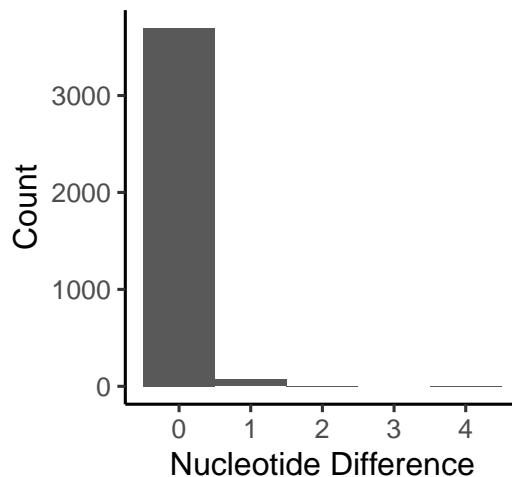
TRBV4–1*ap01

7625 sequences assigned
7539 (98.9%) exact matches, in which:
7475 unique CDR3
13 unique J



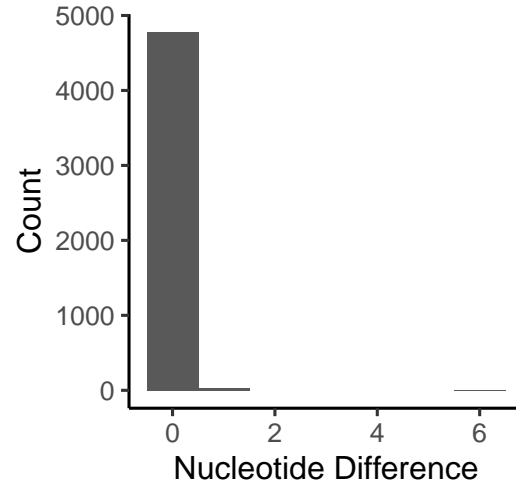
TRBV25–1*ap01

3771 sequences assigned
3696 (98%) exact matches, in which:
3622 unique CDR3
13 unique J



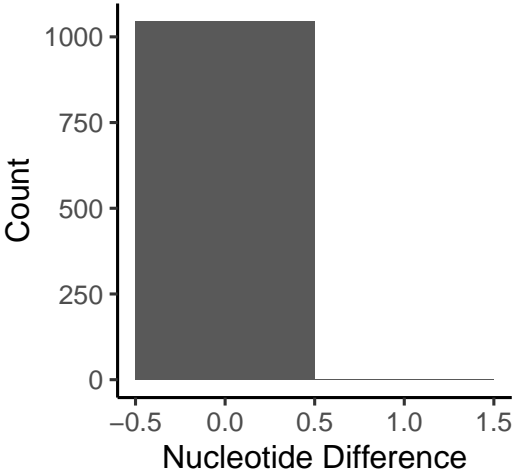
TRBV5–4*ap01

4810 sequences assigned
4779 (99.4%) exact matches, in which:
4729 unique CDR3
13 unique J



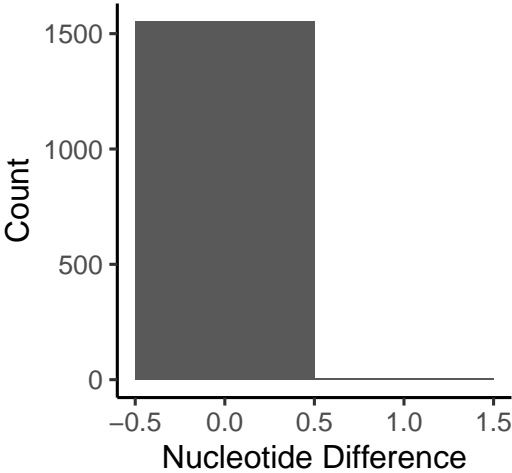
TRBV5-5*ap01

1047 sequences assigned
1045 (99.8%) exact matches, in which:
1044 unique CDR3
13 unique J



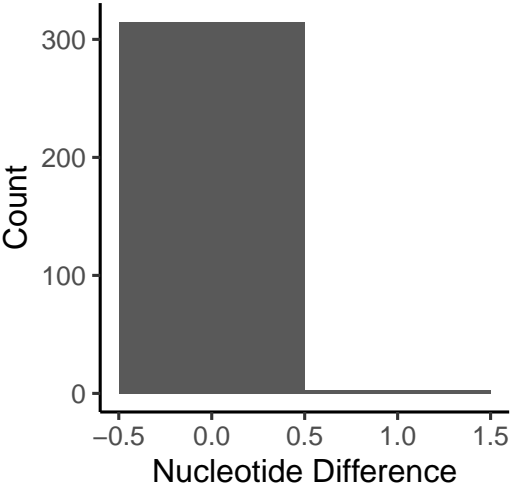
TRBV5-8*ap01

1560 sequences assigned
1553 (99.6%) exact matches, in which:
1546 unique CDR3
13 unique J



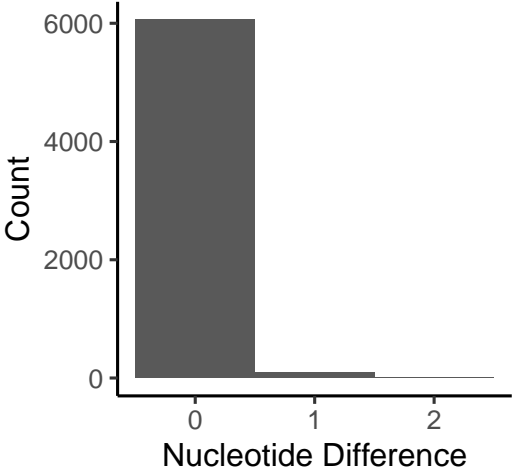
TRBV6-7*ap01

318 sequences assigned
315 (99.1%) exact matches, in which:
314 unique CDR3
12 unique J



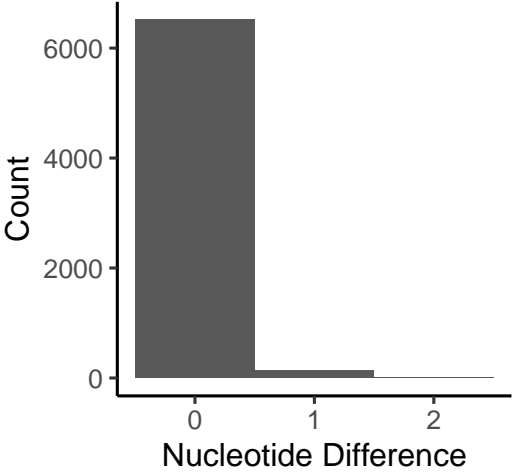
TRBV5-6*ap01

6149 sequences assigned
6060 (98.6%) exact matches, in which:
5980 unique CDR3
13 unique J



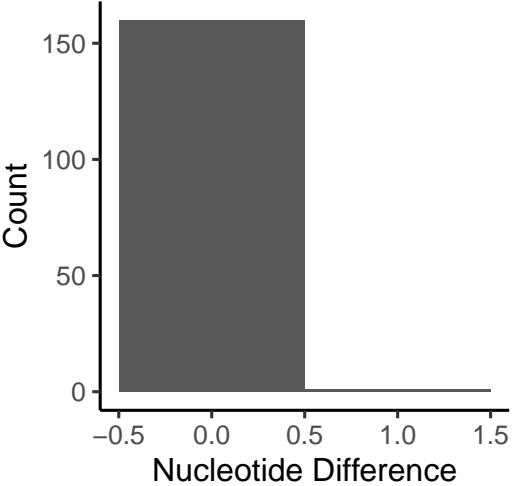
TRBV6-1*ap01

6646 sequences assigned
6516 (98%) exact matches, in which:
6441 unique CDR3
13 unique J



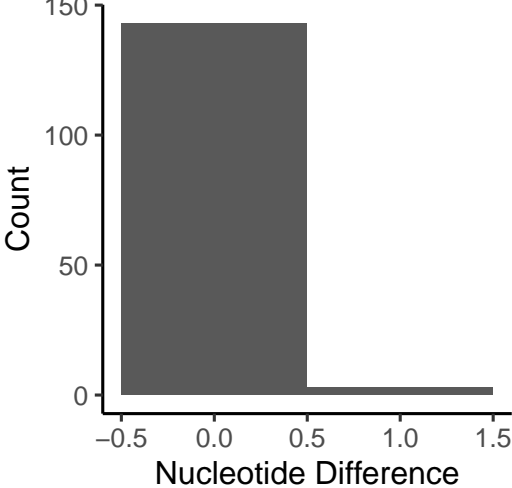
TRBV6-8*ap01

161 sequences assigned
160 (99.4%) exact matches, in which:
158 unique CDR3
13 unique J



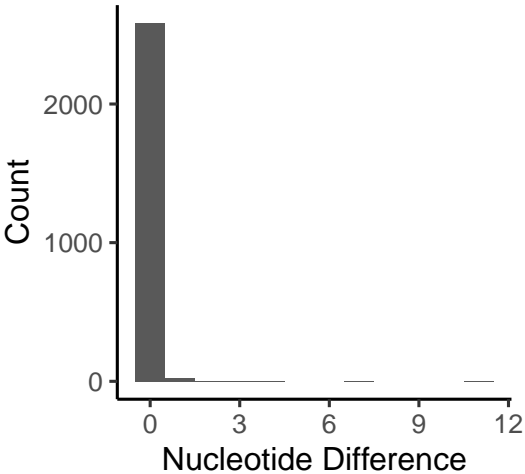
TRBV5-7*ap01

146 sequences assigned
143 (97.9%) exact matches, in which:
138 unique CDR3
13 unique J



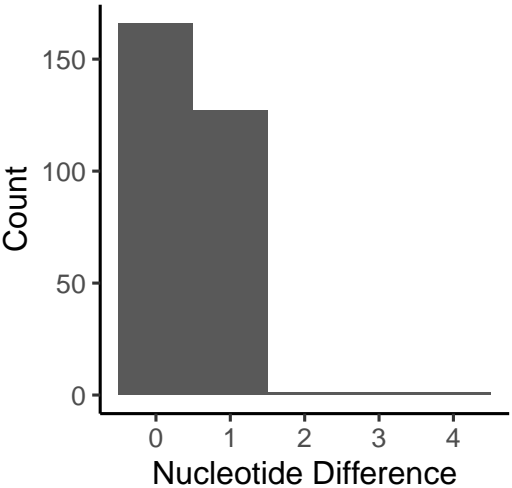
TRBV6-4*ap01

2616 sequences assigned
2584 (98.8%) exact matches, in which:
2569 unique CDR3
13 unique J



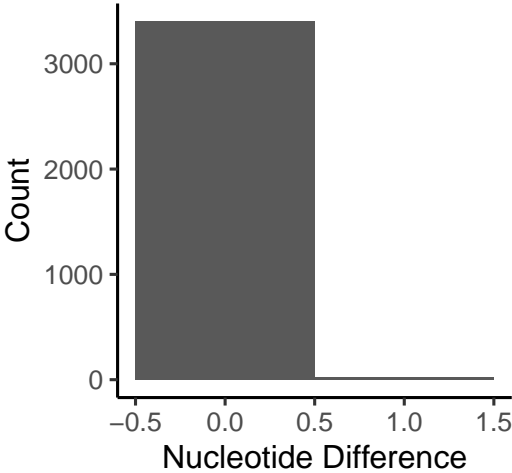
TRBV6-9*ap01

296 sequences assigned
166 (56.1%) exact matches, in which:
165 unique CDR3
11 unique J



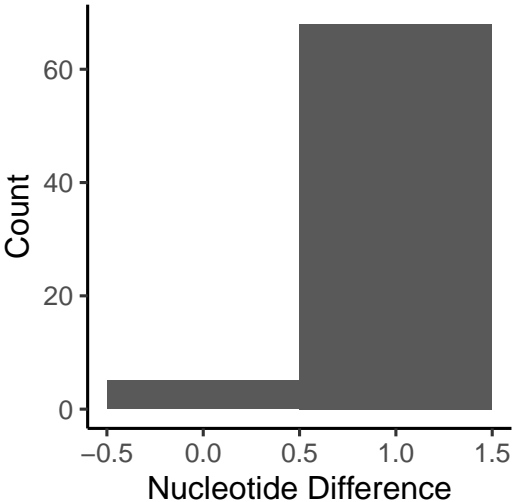
TRBV6-23*ap01

3429 sequences assigned
3402 (99.2%) exact matches, in which:
3352 unique CDR3
13 unique J



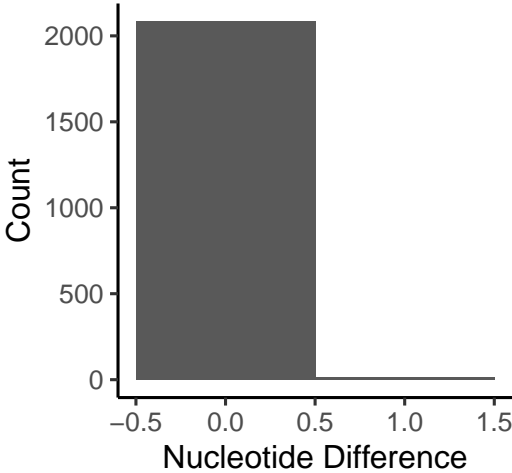
TRBV7-1*ap01_T296C

73 sequences assigned
5 (6.8%) exact matches, in which:
5 unique CDR3
5 unique J



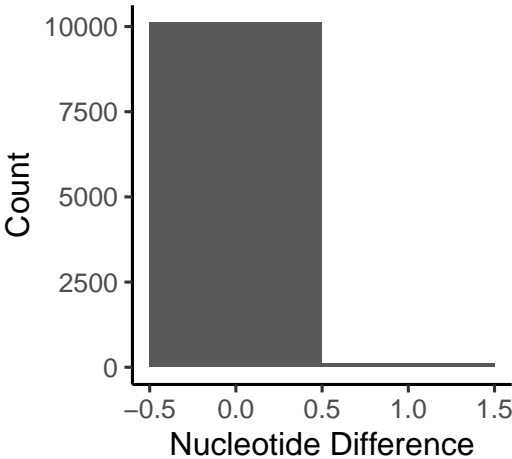
TRBV7-3*ap01

2100 sequences assigned
2084 (99.2%) exact matches, in which:
2078 unique CDR3
13 unique J



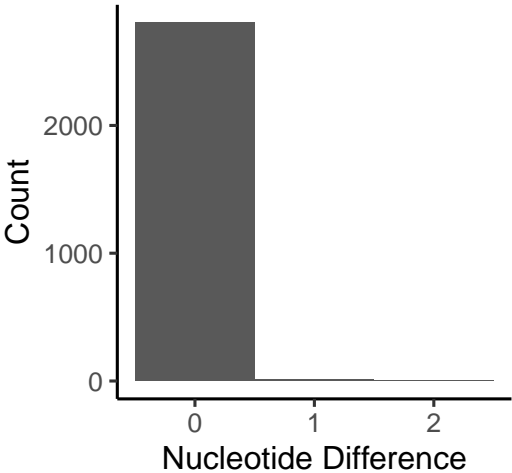
TRBV6-56*ap01

10237 sequences assigned
10120 (98.9%) exact matches, in which:
9958 unique CDR3
13 unique J



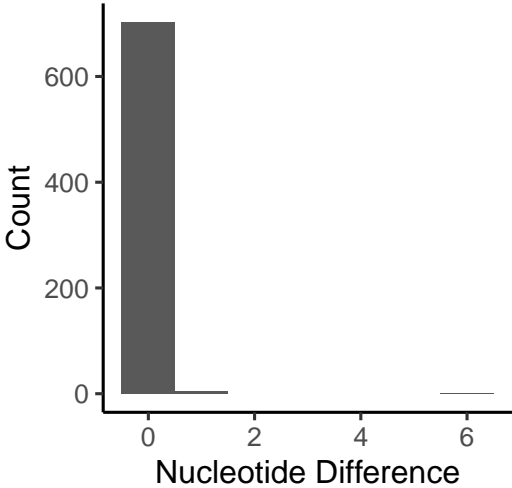
TRBV7-2*ap01

2819 sequences assigned
2804 (99.5%) exact matches, in which:
2787 unique CDR3
13 unique J



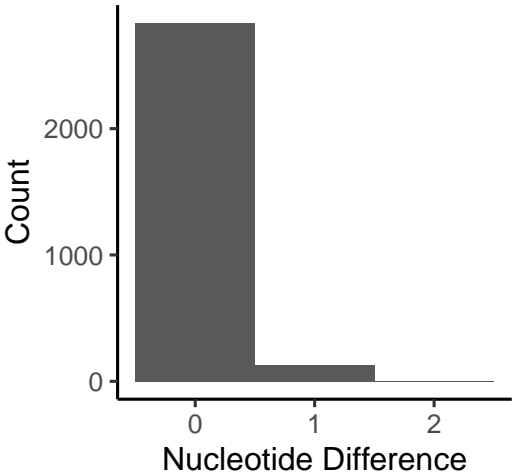
TRBV7-3*ap03

708 sequences assigned
703 (99.3%) exact matches, in which:
701 unique CDR3
13 unique J



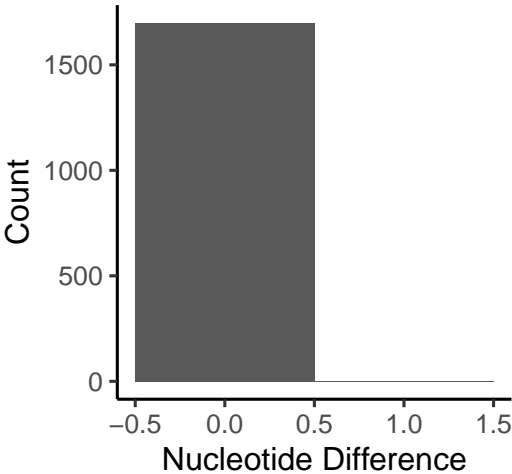
TRBV6-56*ap02

2968 sequences assigned
2836 (95.6%) exact matches, in which:
2797 unique CDR3
13 unique J



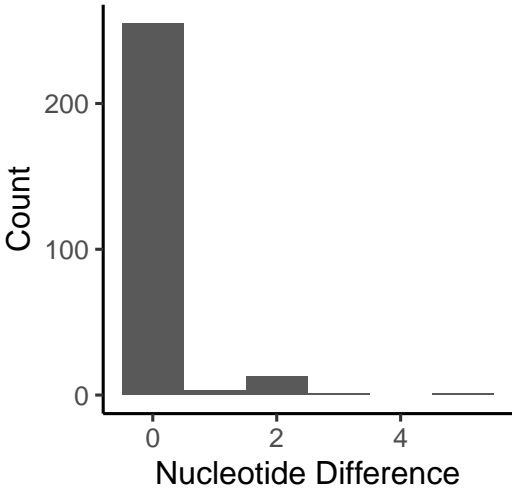
TRBV7-2*ap01_G297A

1700 sequences assigned
1698 (99.9%) exact matches, in which:
1695 unique CDR3
13 unique J



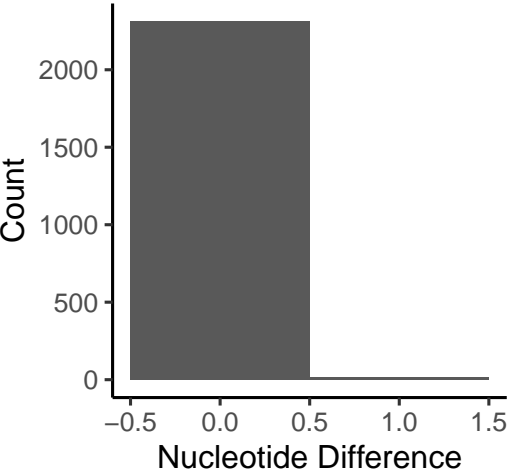
TRBV7-4*ap01

273 sequences assigned
255 (93.4%) exact matches, in which:
255 unique CDR3
13 unique J



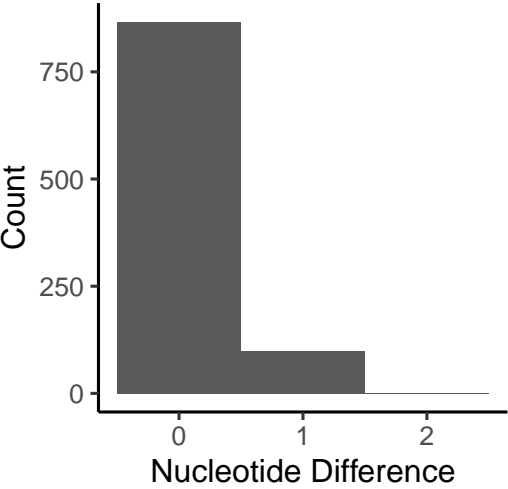
TRBV7-6*ap01

2325 sequences assigned
2312 (99.4%) exact matches, in which:
2295 unique CDR3
13 unique J



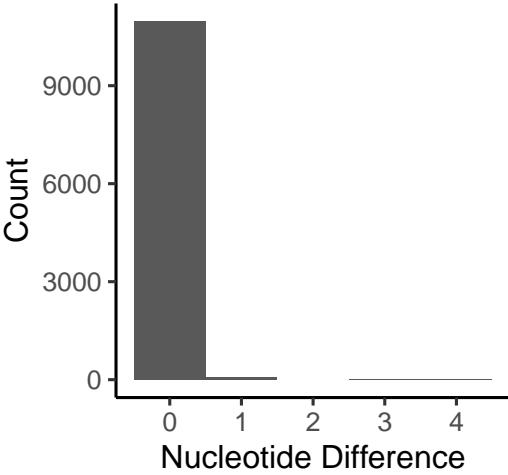
TRBV7-8*ap01

966 sequences assigned
867 (89.8%) exact matches, in which:
863 unique CDR3
13 unique J



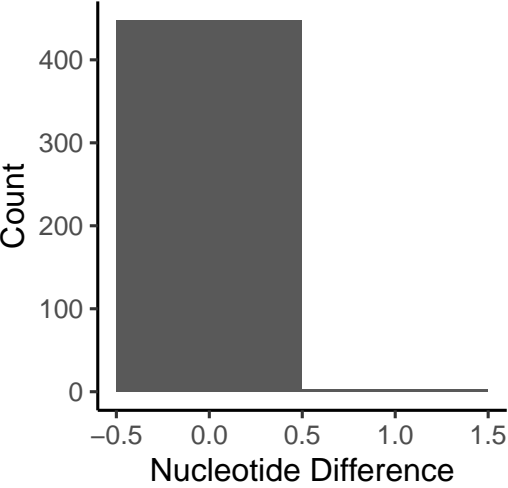
TRBV7-9*ap01

11044 sequences assigned
10967 (99.3%) exact matches, in which:
10904 unique CDR3
13 unique J



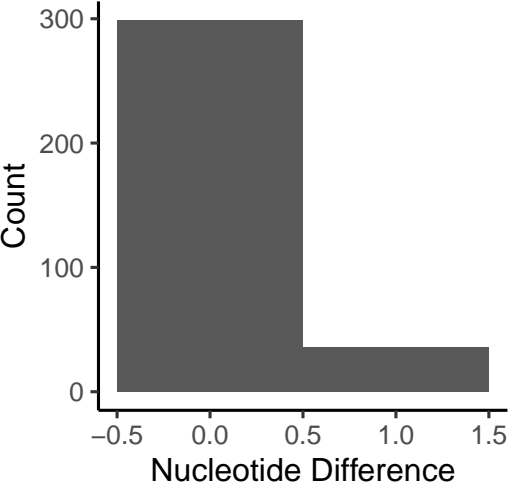
TRBV7-7*ap01

451 sequences assigned
448 (99.3%) exact matches, in which:
446 unique CDR3
13 unique J



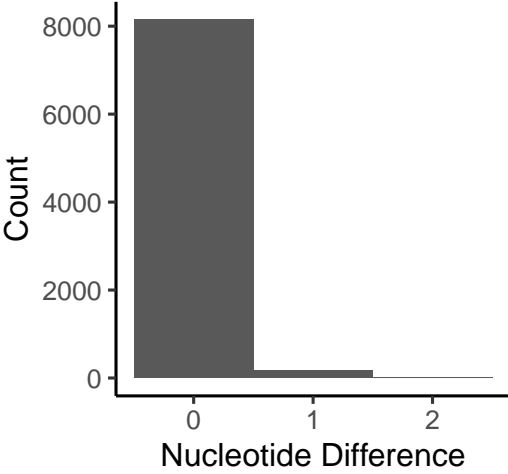
TRBV7-8*ap03

335 sequences assigned
299 (89.3%) exact matches, in which:
298 unique CDR3
13 unique J



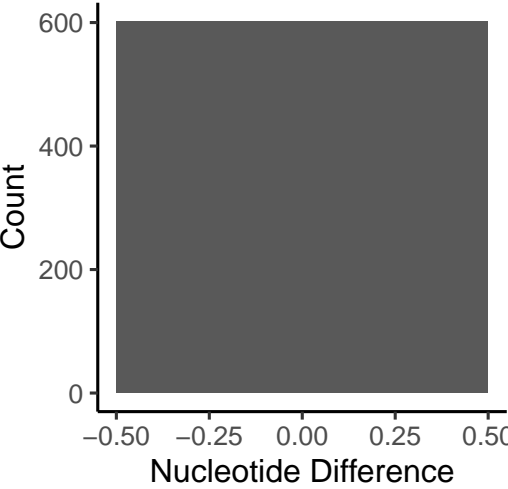
TRBV29-1*ap01

8320 sequences assigned
8147 (97.9%) exact matches, in which:
7962 unique CDR3
13 unique J



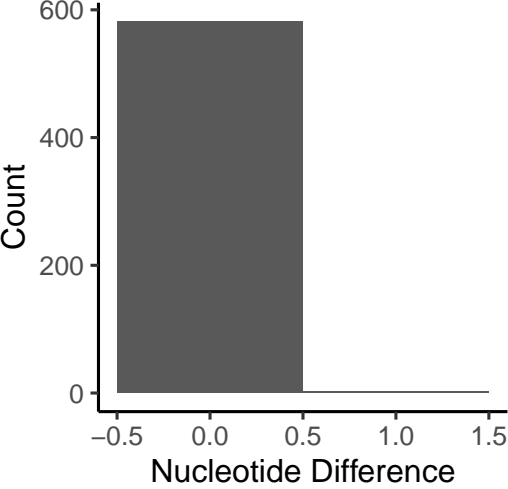
TRBV7-7*ap01_C315T

602 sequences assigned
602 (100%) exact matches, in which:
598 unique CDR3
12 unique J



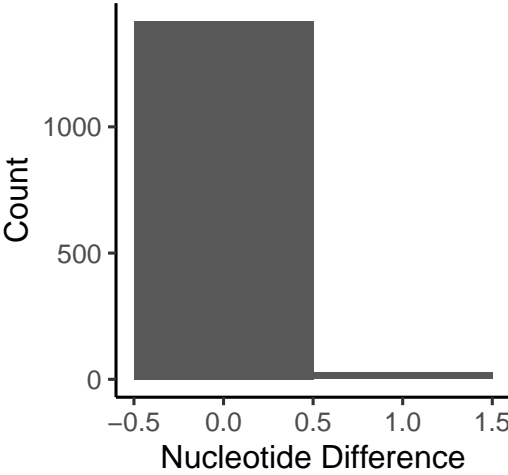
TRBV7-8*ap03_C297A

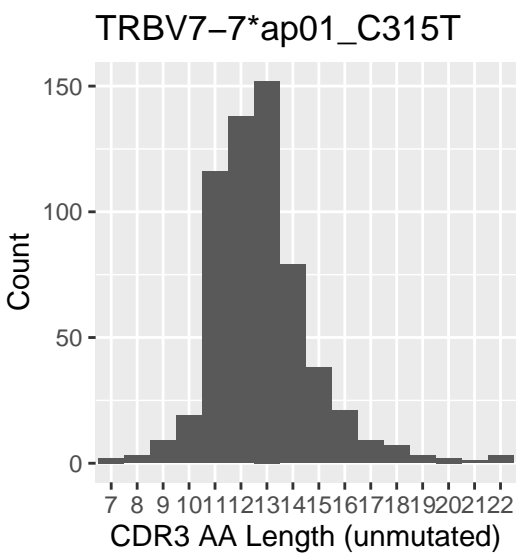
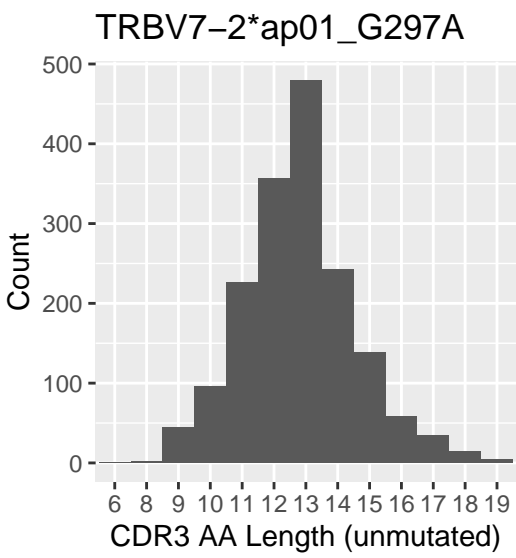
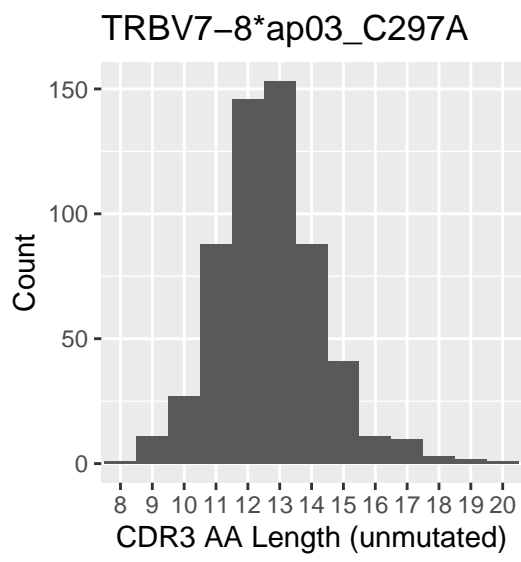
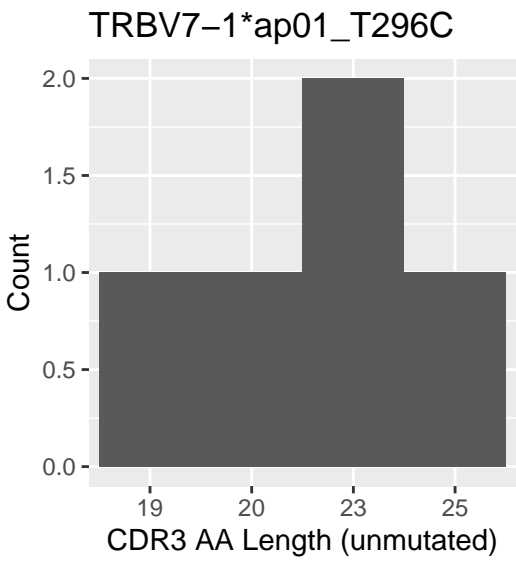
585 sequences assigned
582 (99.5%) exact matches, in which:
580 unique CDR3
13 unique J

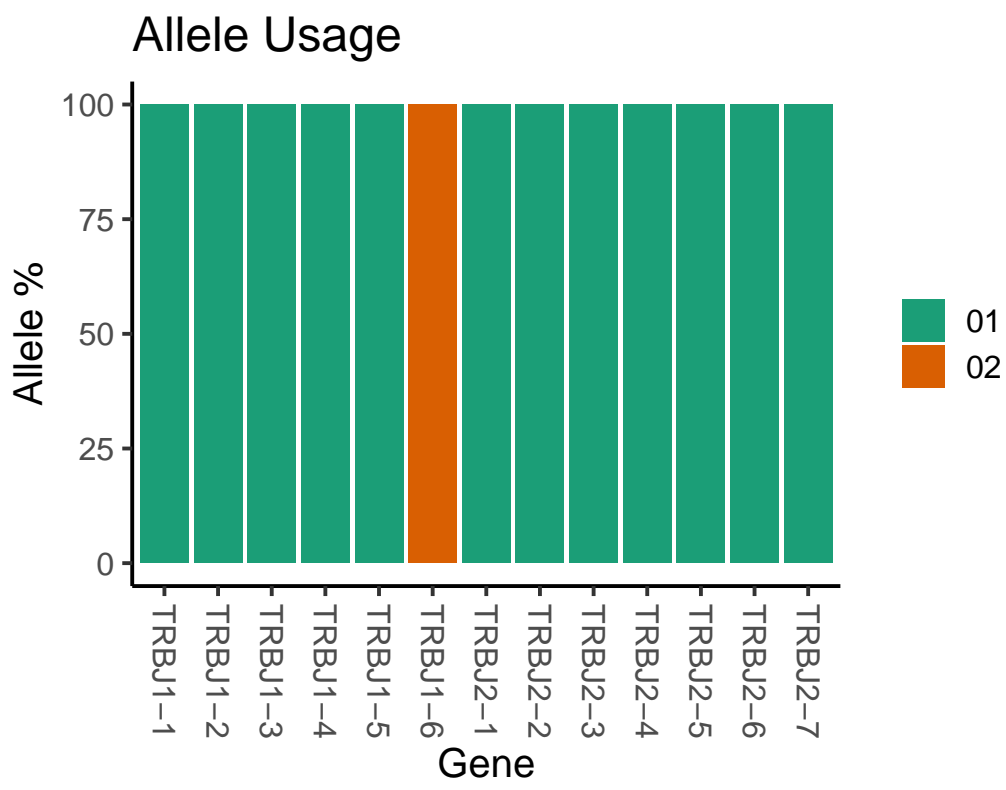


TRBV29-1*ap02

1446 sequences assigned
1419 (98.1%) exact matches, in which:
1384 unique CDR3
13 unique J







[illegible]