





co-factor shown as a stick representation in green. (A) shows the protomer structure of alanine racemase depicted as a cartoon with the PLP co-factor shown as sticks. Insert (B) shows the active site with residues that have been identified in the GWAS depicted as sticks and their hydrogen bonding propensity shown as dashed black lines.



Polymorphisms in regions surrounding *ethA* (top left), *thyA* (top right), *pncA* (bottom left), and *katG* (bottom right) using the complete dataset (n=6,465)

The top panel in the figures shows the density of SNPs per Kb (green – non-synonymous, black – all). The red crosses show the location of the small indels. The middle panel shows the location of the large deletions found in samples used in this study. The lower panel shows the location of the location of the location of the small indels.

