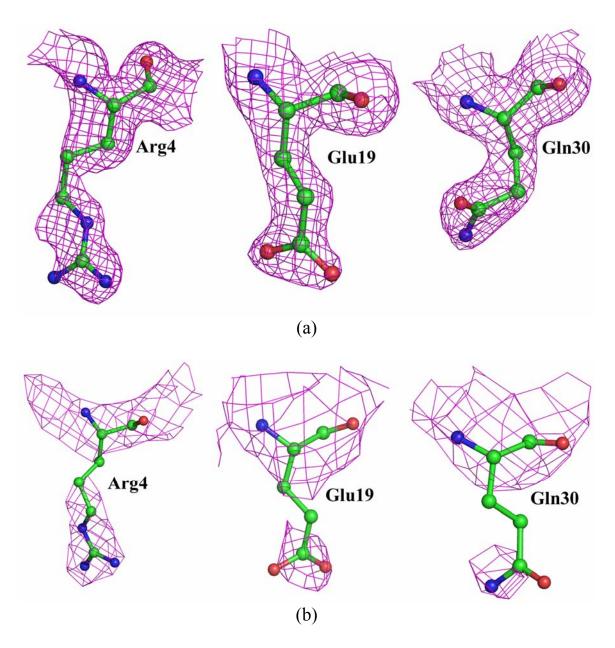
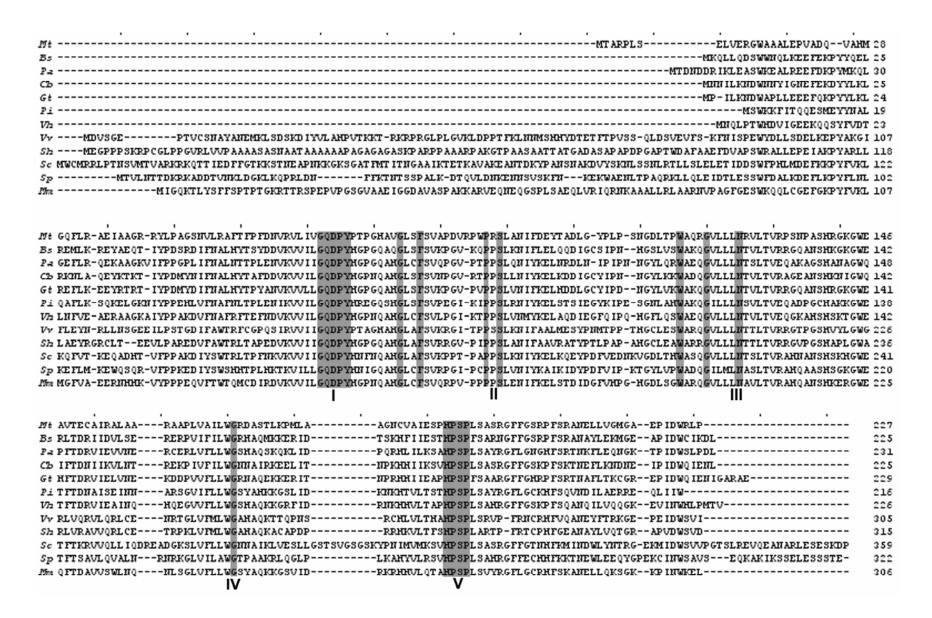


Supplementary Figure S1. Unexplained electron density in the Fo-Fc map which could be interpreted as that for two citrate ions. The contours are at 3σ level.



Supplementary Figure S2. Electron density in 2Fo-Fc maps for representative residues in the structures (a) MtUng and (b) the MtUng-Ugi complex. The contours are at 1 σ level



Supplementary Figure S3. Alignment of typical sequences among the 293 that are homologous to MtUng. Totally conserved residues are highlighted. Mt: *Mycobacterium tuberculosis*; accession No. P67071 (High G+C Gram-positeve bacterium), Bs: *Bacillus*

subtilis; P39615 (Low G+C Gram-positive bacterium), Pa: Pseudomonas aeruginosa; A6VAM7 (Gram-negative bacterium), Cd: Clostridium botulinum; B2V017 (Anaerobai bacterium), Gt: Geobacillus thermodenitrificans A4ITQ2 (Thermophilic bacterium), Pi: Psychromonas ingrahamii; A1SUE5 (Psychrophilic bacterium), Vh: Vibrio harveyi; A7MS85 (Halophilic bacterium), Vv: Varicellazoster virus; P09307 (Huamn herpesvvirus), Sh: Suid herpesvirus 1; P52506 (Porcine herpesvirus 1), Sc: Saccharomyces cerevisiae; P12887 (Yeast mitochondrial), Sp: Schizosaccharomyces pombe; O74834 (yeast), Ms: Mus musculus; P97931 (Mouse).