Supporting Information

Liao et al. 10.1073/pnas.1323285111

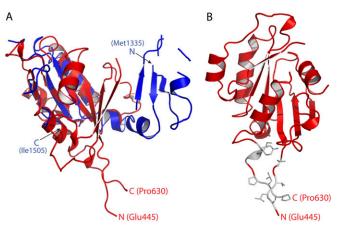


Fig. S1. Structures of the Ras of complex proteins (Roc) domain. (A) Cartoon representation of human (blue) and Chlorobium tepidum (red) superimposed. N and C termini are marked with fond colors matching each structure. This shows the N and C termini of human Roc is far apart, whereas the termini of C. tepidum are close together. (B) Cartoon representation of Roc domain of C. tepidum showing a hydrophobic patch near the termini. Hydrophobic residues are shown as gray sticks.

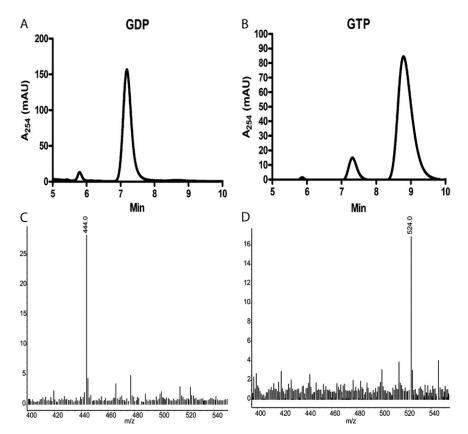
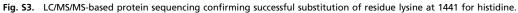


Fig. 52. Liquid chromatography–tandem MS (LC/MS/MS). (*A* and *B*) Hydrophilic interaction liquid chromatography (HILIC) HPLC profile of control GDP (*A*) and GTP (*B*) showing retention time at 7.2 and 8.9 min, respectively. This control experiment helped us find the peaks in our reaction mixture that corresponding to each nucleotide. (*C* and *D*) Electrospray mass spectrometry in tandem with HILIC HPLC confirmed the identity of Roc GTPase product GDP (*C*) and the remaining substrate GTP (*D*) in each reaction presented in Fig. 4A.





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