

Fig. S2

The cluster analysis of GAF domains. The phylogenetic trees for the GAF domains of Tlr0485 homologs, known cNMP-binding proteins, and all the GAF domain-containing proteins of *Thermosynechococcus elongatus* based on the neighbor-joining method. Sequence labels are protein names followed by the domain compositions of the full-length proteins. *: cAMP-binding GAF domains.

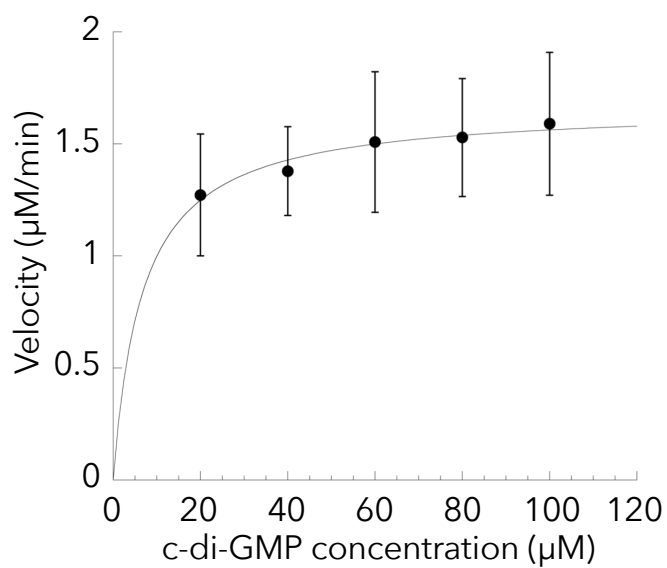


Fig. S3

The substrate concentration dependence curve for the PDE activity of Tlr0485 in the presence of 2 μM cAMP for activation of the enzyme. The reaction velocity is calculated from the amount of the reaction product, pGpG. Shown data are mean \pm standard deviations of three independent experiments.

