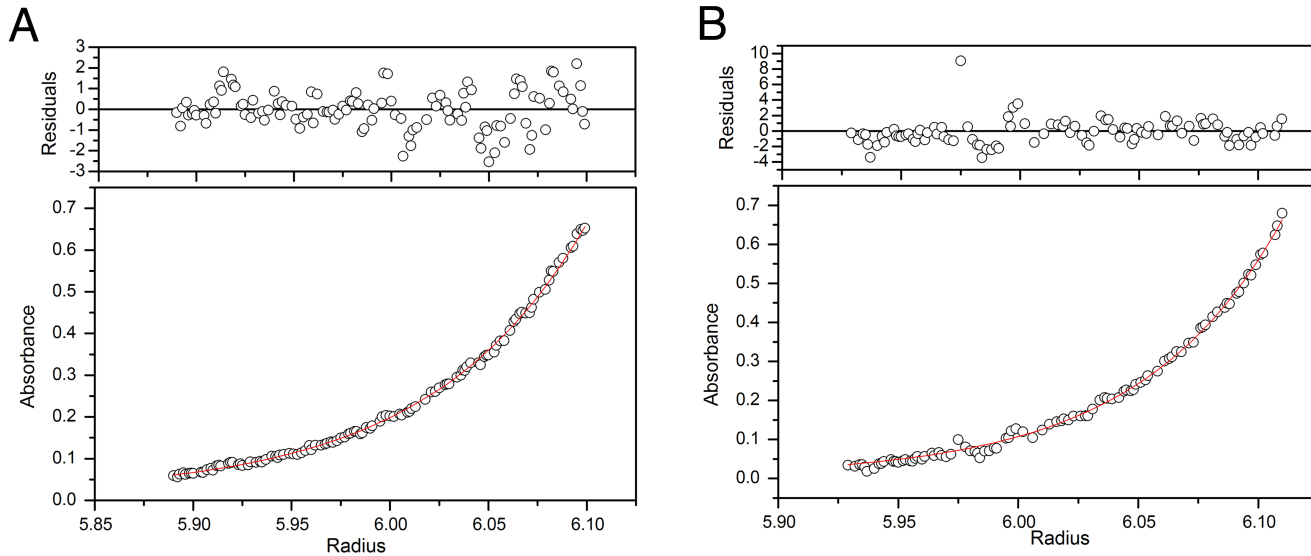


## SUPPORTING INFORMATION

### FUNCTIONAL CONVERGENCE OF STRUCTURALLY DISTINCT THIOESTERASES FROM CYANOBACTERIA AND PLANTS INVOLVED IN PHYLLOQUINONE BIOSYNTHESIS

Fabienne Furt<sup>a</sup>, William J. Allen<sup>b</sup>, Joshua R. Widhalm<sup>a</sup>, Peter Madzellan<sup>c</sup>, Robert C. Rizzo<sup>b</sup>, Gilles Basset<sup>a</sup> and Mark A. Wilson<sup>c</sup>



Supplemental Figure 1: Sedimentation equilibrium centrifugation indicates that Slr0204 and AtDHNAT1 are tetramers in solution. Sedimentation equilibrium was performed at  $1.0 \times 10^4$ ,  $1.5 \times 10^4$ , and  $2.0 \times 10^4$  rpm in a Beckman Coulter XL-I with an An Ti-50 rotor at two different concentrations of each protein, for a total of six datasets per sample. In Panel A, Slr0204 at 0.2 mg/ml is shown after sedimentation at  $2.0 \times 10^4$  rpm. In Panel B, AtDHNAT1 at 0.4 mg/ml and  $2.0 \times 10^4$  rpm is shown. Global fitting of molecular weight was done against all six datasets per sample in Origin, with the result shown as a red line. Good agreement between the tetrameric model and data is indicated by the lack of systematic trends in the residuals (upper panel in each), which are calculated by subtracting the model-predicted absorbance as a function of radius from the measured values and normalized by an estimate of experimental error.