

The PrpF protein of *Shewanella oneidensis* MR-1 catalyzes the isomerization of 2-methyl-*cis*-aconitate during the catabolism of propionate via the AcnD-dependent 2-methylcitric acid cycle

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Figure S1. Kinetics of aconitase product formation. Reaction mixtures contained aconitase A (AcnA) and aconitase B (AcnB) with *cis*-aconitate (Panel A: AcnA; Panel B: AcnB) or 2-methyl-*cis*-aconitate (Panel C: AcnA; Panel D: AcnB) as substrate. Product formation (either isocitrate from *cis*-aconitate; 2-methylisocitrate from 2-methyl-*cis*-aconitate) was monitored as a decrease in absorbance at 240 nm over time (min; y-axes) as a function of substrate concentration (μM ; x axes). The increase in the rate at which A_{240} decreased is what is plotted. Detailed assay conditions are described under Materials and Methods.

