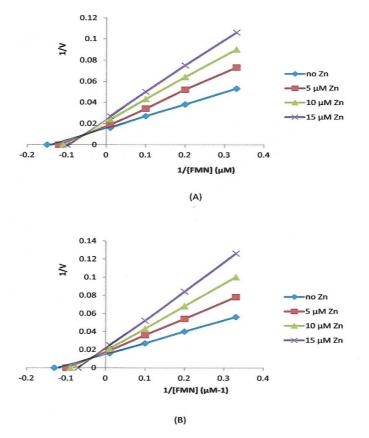


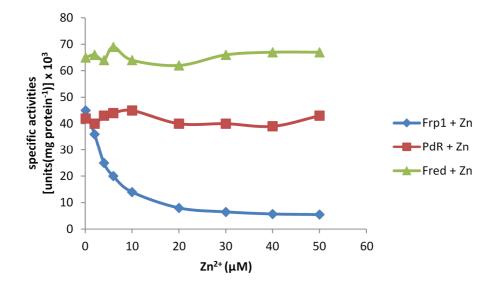


## **1** Supplementary Materials:



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- 3 Figure S1. (A) Frp1 initial velocity as a function of NADH in the presence of 3.0,
- 4 5.0, 10.0 and 100.0  $\mu$ M FMN in the absence of Zn<sup>2+</sup> and with the divalent metal ion
- 5 added to concentrations of 5.0, 10.0 and 15.0 μM. (**B**) Equivalent plots for Frp2

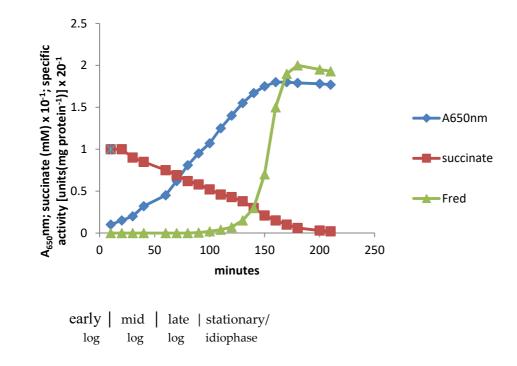


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7 Figure S2. Activity of highly purified preparations of PdR and Fred in the presence of

8 increasing levels of  $Zn^{2+}$ . Equivalent data for highly purified Frp1 is included for

9 comparative purposes.



13 Figure S3. Growth of P. putida ATCC 17453 on 10 mM succinate minimal medium and

14 the induction profile of Fred.

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