Supplemental Material

Phosphate uptake by the phosphonate transport system PhnCDE

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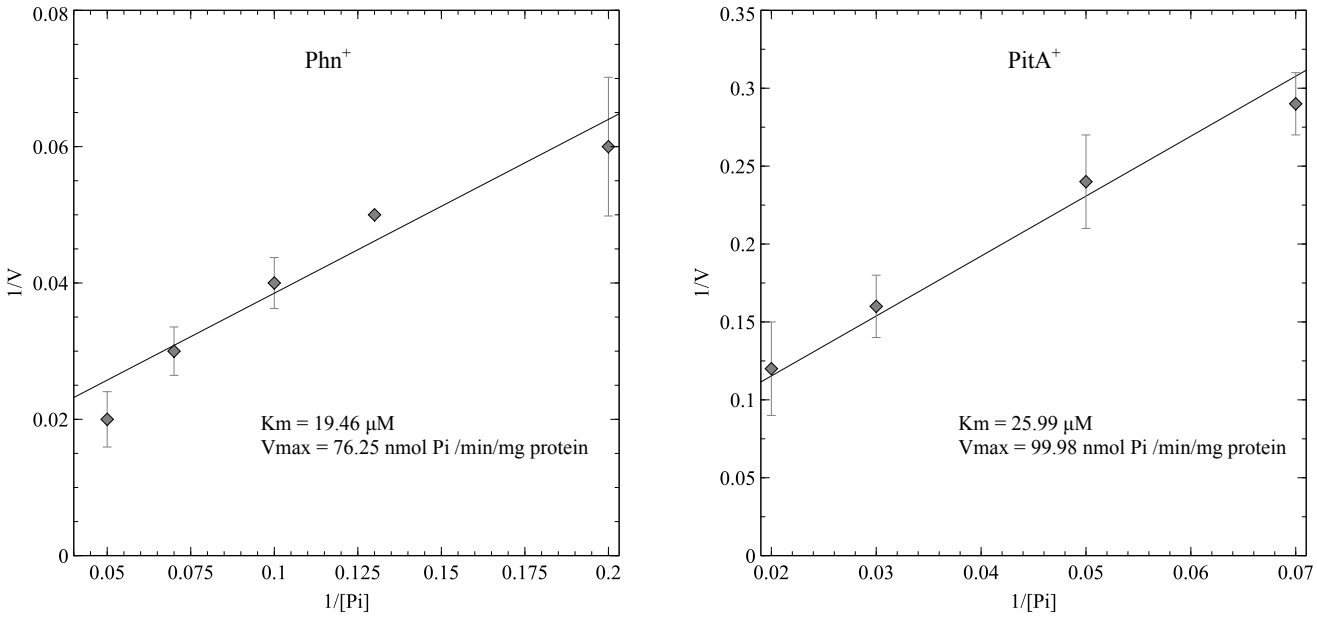

Fig S1. Lineweaver-Burk plots of ^{32}Pi uptake by strains *phn*$^+$3Δ and *pitA*$^+$3Δ. Bacteria were suspended in TG medium containing 5 µM to 20 µM ^{32}Pi in the case of *phn*$^+$3Δ and 15 µM to 50 µM ^{32}Pi in the case of *pitA*$^+$3Δ, at which point samples were withdrawn every 10 seconds. The V_0 obtained with each Pi concentration were used to plot the kinetics of Pi uptake and to draw the K_m and V_{max} towards Pi of the transport systems. Each point represents the mean ±SEM of at least three independent assays.

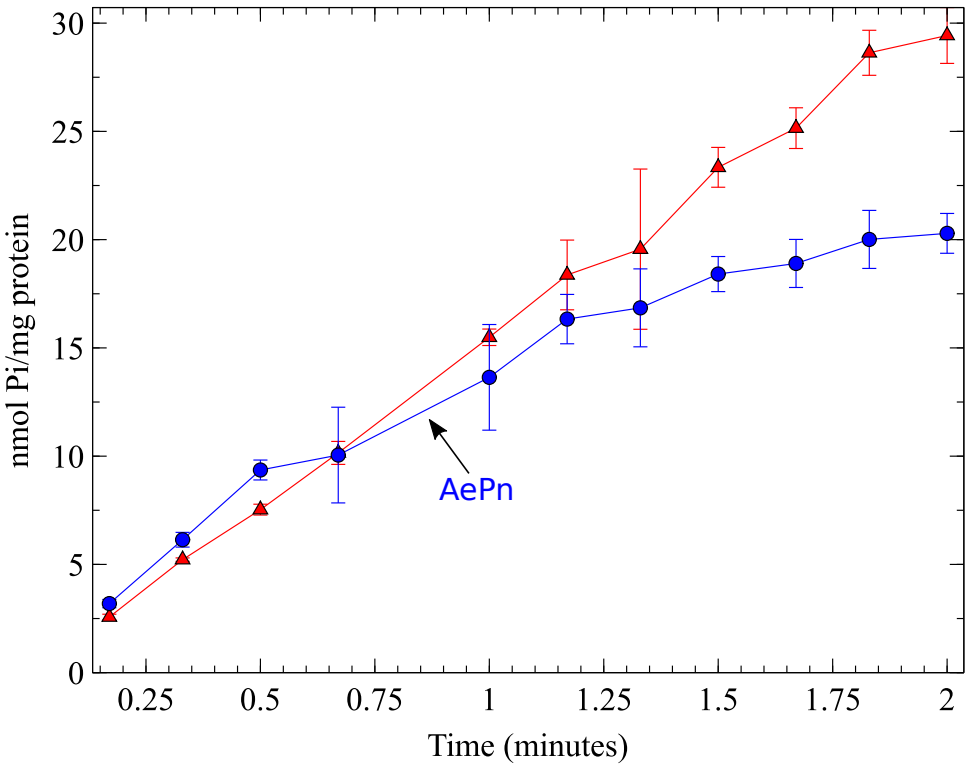

Fig S2. Inhibition of Pi-uptake by AePn. Two cultures of the *phn*$^{+}$3Δ strain was suspended in medium TGP (10 µM ^{32}Pi). Samples were withdrawn every 10 seconds and the level of incorporated radioactivity (cpm counts) was measured. At 50 s, 4 mM AePn were added to one of the cultures. Each point represents the mean ±SEM of three independent assays.

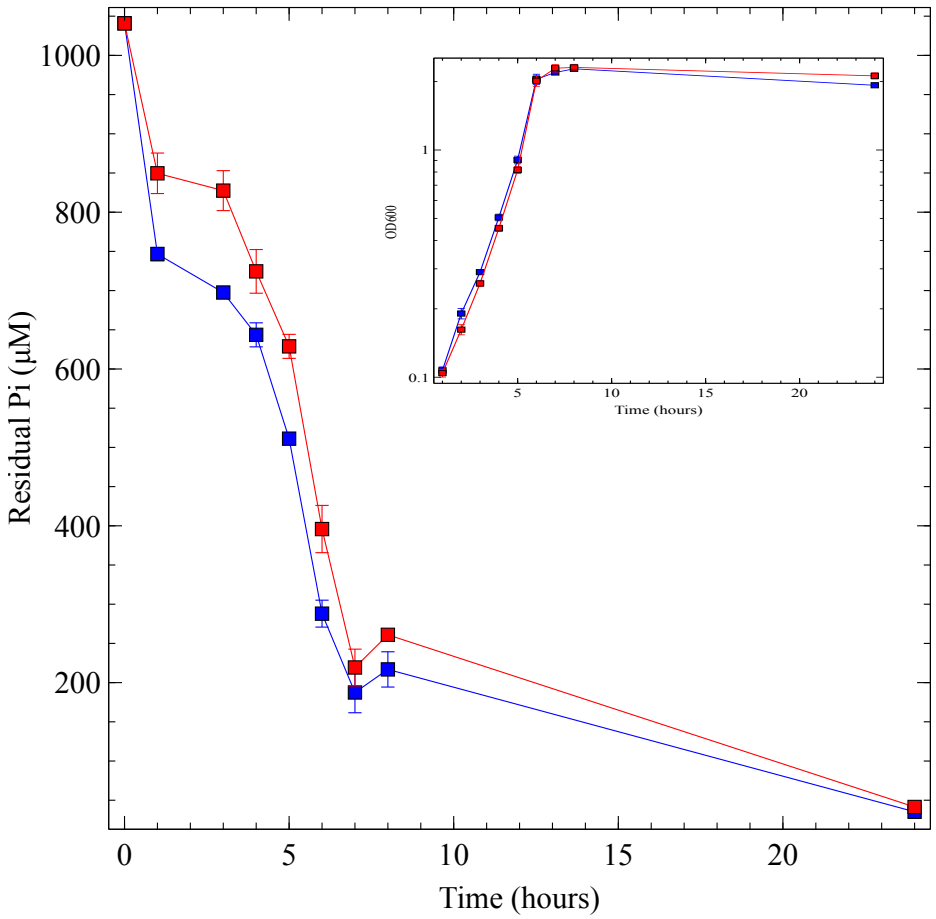

Fig S3. Pi consumption by strains *phn*$^{+}$3Δ(RS07) and MG1655. Bacteria were grown in medium TGP (1 mM KH_2PO_4). At the depicted time intervals samples were analysed for residual Pi in the medium and growth (OD_{600}) (inset). Each point represents the mean ±SEM of three independent assays.