

**S2 Fig. Absorbance spectra of variants of Rho-MatB with and without ATP**

(A) 1  $\mu$ M Rho-MatB T167A with and without 5 mM ATP; (B) 1  $\mu$ M Rho-MatB T303A with and without 3 mM ATP; (C) 1  $\mu$ M Rho-MatB S170A with and without 0.5 mM ATP. These ATP concentrations were saturating for the variant. Solutions were in 50 mM Hepes pH 7.0, 100 mM NaCl, 10 mM  $\text{MgCl}_2$ , 0.3  $\text{mg ml}^{-1}$  bovine serum albumin at 20  $^{\circ}\text{C}$ .

