Text S2: Endogenous genes in *S. cerevisiae*, *S. pombe*, and *E. coli*: correlation of the predicted rates with protein abundance given mRNA levels and the correlation of the predicted rate multiplies by the mRNA levels with protein abundance

E. coli - The correlation with for PA given mRNA: R = 0.33 ($p = 1.84*10^{-11}$) for the *RFM vs.* R = 0.29 ($p = 3.95*10^{-9}$; 398 genes with PA & mRNA; see Figure S21) for the *tAI*; the correlation of (Rate * mRNA) with PA (r = 0.71 for the *RFM vs.* r = 0.7 for the *tAI*, $p < 10^{-16}$ in both cases; see Figure S22);

S. pombe - The correlation with PA given mRNA was also higher for the RFM, R=0.39 (p < 10^{-16}) vs. 0.307 for the tAI (p < 10^{-16}) for the tAI (see Figure S23). The correlation of (Rate * mRNA) with PA (r= 0.7 for the RFM vs. r = 0.627 for the tAI, p < 10^{-16} in both cases ;see Figure S24);

S. cerevisiae – The correlation with for PA given mRNA: R = 0.32 for the RFM vs. 0.35 for the tAI (p < 10^{-16} in both cases; see Figure S25). The correlation of (Rate * mRNA) with PA: 0.58 for the RFM vs. 0.58 for the tAI (p < 10^{-16} in both cases; see Figure S26). The correlation with PA R = 0.49 for the RFM vs. 0.57 for the tAI (p < 10^{-16} in both cases).