Supplementary Information

A relationship between NTP and cell extract concentration for cell-free protein expression

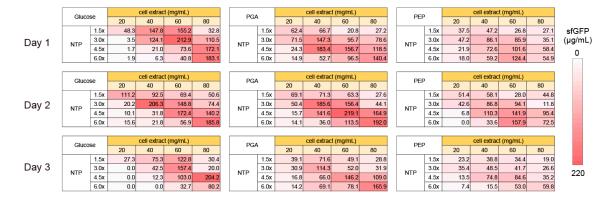
Katsuki Takahashi, Gaku Sato, Nobuhide Doi, Kei Fujiwara*

Supplementary Figures S1-S4

GFP synthesis		cell extract (mg/mL)			
(µg/mL)		20	30	40	50
Mg conc (mM)	5	20±3	102±15	144±9	154±17
	10	205±37	298±27	149±11	118±6
	15	325±38	329±44	221±18	142±31
	20	198±26	332±39	191±9	103±43
	25	71±35	328±41	93±8	28±17

Supplementary Figure S1. Mg dependence of high concentration cell extract on CFPS activity.

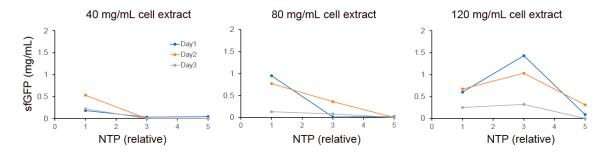
Averages and standard error of 3 times experiments performed in different days were shown.



Supplementary Figure S2. Energy source dependence of high concentration cell extract on CFPS activity. Raw data of Figure 4 are shown. The values indicate the levels of sfGFP synthesis (μ g/mL).



Supplementary Figure S3. Effect of ATP and its derivative of high concentration cell extract on CFPS activity. Raw data of Figure 5 are shown. Setting of the heat map is the same as in Figure 5. The values indicate the levels of sfGFP synthesis (μ g/mL).



Supplementary Figure S4. NTP requirement of high concentration cell extract for cell-free protein synthesis. Raw data of dialysis-mode results in Figure 6 are shown.