

**Table 1.** Reactions per subsystems.

<b>Number</b>	<b>Subsystem</b>	<b>Reactions</b>
I	Transcription	783
II	mRNA degradation	628
III	Translation	6,812
IV	Protein maturation	628
IX	RNA processing	122
V	Protein folding	570
VI	Metallo-ion binding	128
VII	Protein complex formation	87
VIII	Ribosomal assembly	13
X	rRNA modification	864
XI	tRNA modification	1,597
XII	tRNA charging	177
XIII	Aminoacyl-tRNA synthetase charging	33
XIV	Charging EF-Tu	4
XV	Cleavage polycistronic mRNA	222
XVI	Demands	302
XVII	Exchange reactions	76
XVIII	Iron-sulfur cluster biosynthesis	6
XIX	Iron-sulfur cluster incorporation	6
XX	Protein modification	12
XXI	Protein recycling	148
XXII	Ribosomal protein modification	21
XXIII	rRNA formation	38
XXIV	Sinks	35
XXV	Transcription regulation	261
XXVI	Transport	76
XXVII	tRNA activation (EF-TU)	45
	Total number of reactions	13,694

The numbers I to XII correspond to the numbering shown in Figure 2A.  
doi:10.1371/journal.pcbi.1000312.t001