

Table S2 - Reactions per subsystem

Reactions per Subsystem		
Number	Subsystem	Reactions
I	Transcription	783
II	mRNA degradation	628
III	Translation	6812
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
XII	tRNA charging	177
XI	tRNA modification	1597
XIII	Aminoacyl-tRNA synthetase cha	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	13694

Components per Subsystem	
Subsystem	Components
Folding	597
Iron-sulfur cluster biosynthesis	12
Iron-sulfur cluster incorporation	3
Maturation	628
mRNA cleavage	111
mRNA degradation	324
Others	147
Protein Folding	14
Protein Modification	14
Ribosomal Assembly	44
Ribosomal protein modification	21
Ribosome maturation	2
RNA cleavage	18
RNA cutting	138
rRNA Modification	896
Transcription	1166
Translation	5885
tRNA activation	1
tRNA charging	151
tRNA modification	1819
Total Number of Components	11991