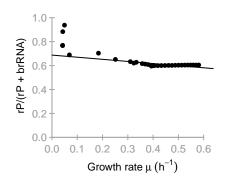
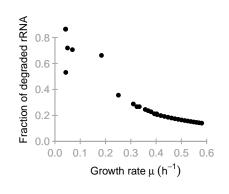
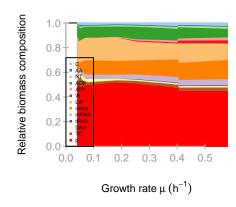
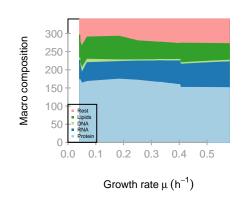


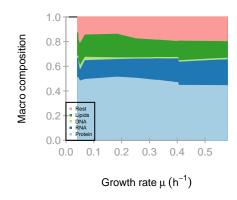
Protein mass fraction in ribosome



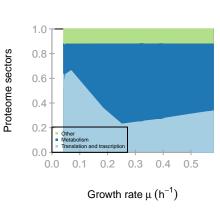




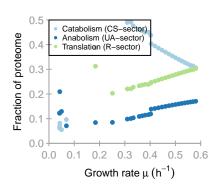




0.8 - 1.0 -







	tC	tW	FER	RES	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	rRNase	mRNase	tRNAse	DNAp	tRNAc	r
С	0.2	0	-1	-0.02	0	-1	-0.167	-0.18	0	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	1	-0.167	0	0	0	0	0	0	0	0	0	-0.01	0
NT	0	0	0	0	-1	0	0.334	0	0	-1	-1	-1	1	1	1	-1	0	0
ADP	-0.8	0	0	-0.98	1	0	0.666	0.82	1	0	0	0	0	0	0	0	0.05	0.05
ATP	0.8	0	0	0.98	0	0	-0.666	-0.82	-1	0	0	0	0	0	0	0	-0.05	-0.05
W	0	-1	1	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	0	0	0	0	0	0	0	0.18	0	0	0	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	1	0	0	-1	0	0	0	0	0
mRNA	0	0	0	0	0	0	0	0	0	0	1	0	0	-1	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	0	1	0	0	-1	0	-0.94	0.94
DNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.95	-0.95
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

	tC	tW	FER	RES	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	rRNase	mRNase	tRNAse	DNAp	tRNAc	r
x_C	0.5	0	0	0	0	0	0	0	0	Ö	Ö	Ö	0	0	0	Ö	0	0
x_W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
С	5	0	2	2	0	2	2	2	0	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	1	0
NT	0	0	0	0	2	0	4	0	0	2	2	2	0	0	0	2	0	0
ADP ATP	2	0	0	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ATP	4	0	0	4	0	0	2	2	2	0	0	0	0	0	0	0	2	2
W	0	10	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0
mRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
DNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	tW	FER	RES	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	rRNase	mRNase	tRNAse	DNAp	tRNAc	r
x_C	0	0	0	0	0	0	0	0	0	Ö	Ö	Ō	0	0	0	Ö	0	0
x_W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
mRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
tRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	2	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

kcat

kcatf kcatb	[,1] 150 15	[,2] 200 20	[,3] 200 20	[, 4] 20 2	[,5] 7 1	[,6] 10 1	[,7] 70 7	[, 8] 40 4	[,9] 10 0	[,10] 40 0	[,11] 30 0	[,12] 40 0	[,13] 40 0	[,14] 200 0	[,15] 40 0	[,16] 200 0	[,17] 12000 0	[,18] 600 0

Keq

[1,]	[,1] 200	[,2] 1	[,3] 175	[,4] 350	[,5] 3.5	[,6] 10	[,7] 50	[,8] 160	[,9] Inf	[,10] Inf	[,11] Inf	[, 12] Inf	[, 13] Inf	[,14] Inf	[,15] Inf	[,16] Inf	[,17] Inf	[,18] Inf

minimal phi constraint

[,9] [,10] [,11] [,12] 0.122 0 0 0

[,15] [,16] [,17] 0.001 0 0

[,18] 0

 	P	 •	 •••

[8,] 0

[,1] [,2] [,3] [,4] [,5] [,6] [,7] 0 0 0 0 0 0

[1,]

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