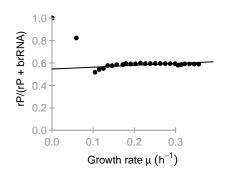
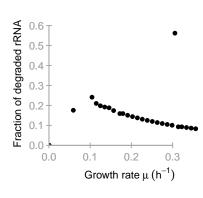
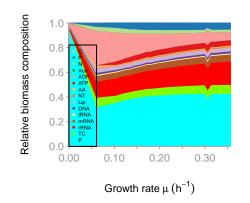
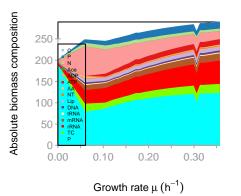


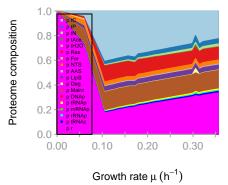
Protein mass fraction in ribosome

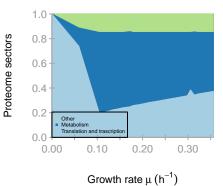












	tC	tΡ	tN	tAce	tH2O	Res	Fer	NTS	AAS	LipS	Deg	Maint	DNAp	tRNAp	mRNAp	rRNAp	tRNAc	r
С	1	0	0	0	0	-0.002	-0.02	-0.175	-0.76	-0.112	ō	0	Ō	Ö	Ö	Ö	0	0
Р	0	1	0	0	0	-0.124	-0.12	0.046	0	0.102	0	0	0	0	0	0	0	0
N	0	0	1	0	0	0	0	-0.079	-0.24	-0.004	0	0	0	0	0	0	0	0
Ace	0	0	0	-1	0	0.002	0.02	0	0	0	0	0	0	0	0	0	0	0
H2O	0	0	0	0	1	0.072	0.07	-0.054	0	-0.064	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	-0.874	0.91	0.657	0	0.774	0	1	0	0	0	0	0.1	0.1
ATP	0	0	0	0	0	0.926	-0.86	-0.692	0	-0.82	0	-1	0	0	0	0	-0.1	-0.1
AA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	-0.2	0
NT	0	0	0	0	0	0	0	0.297	0	0	1	0	-1	-1	-1	-1	0	0
Lip	0	0	0	0	0	0	0	0	0	0.124	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	1	0	0	-0.7	0.1
mRNA	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	0	1	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	-0.8	0	0	0	0	1	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	-0.9
Р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.0

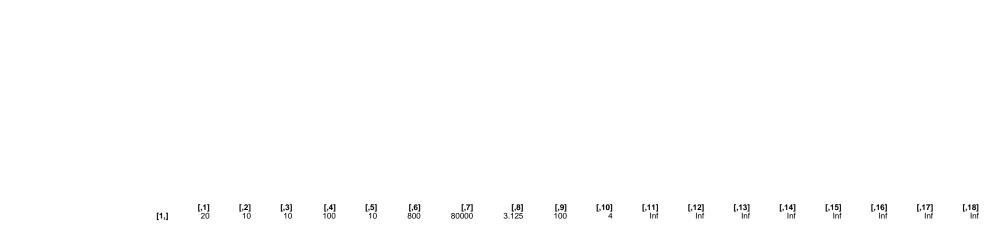
	tC	tΡ	tN	tAce	tH2O	Res	Fer	NTS	AAS	LipS	Deg	Maint	DNAp	tRNAp	mRNAp	rRNAp	tRNAc	r
x_C	1	0	0	0	0	0	0	0	0	0	ŏ	0	Ö	Ō	Ö	Ō	0	0
x_P	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_N	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x Ace	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_H2O	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
_ C	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0
Р	0	0	0	0	0	1	1	1	0	10	0	0	0	0	0	0	0	0
N	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
Ace	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Ace H2O	0	0	0	0	0	800	800	800	0	750	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	10	10	10	0	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	1	1	1	0	1	0	1	0	0	0	0	1	3
AA	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	2	0
NT	0	0	0	0	0	0	0	10	0	0	0	0	1	1	1	1	0	0
Lip	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
Lip DNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0
mRNA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	tP	tN	tAce	tH2O	Res	Fer	NTS	AAS	LipS	Deg	Maint	DNAp	RNAp	mRNAp	rRNAp	tRNAc	r
x_C	0	0	0	0	0	0	0	0	0	0	Ō	0	0	0	0	0	0	0
x_P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_Ace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_H2O	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
P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H2O ADP	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
AA NT	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
Lip	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DNÀ	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	0	0
tRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
rRNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
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

	[,1] 20	[,2] 20	[,3] 20	[,4] 20	[,5] 40000	[,6] 200	[,7] 500	[,8] 500	[,9] 50	[,10] 40	[,11] 10	[,12] 10	[,13] 200	[,14] 136	[,15] 96	[,16] 136	[,17] 200	[, 18] 4.55
kcatf	20	20	20	20	40000	200	500	500	50	40	10	10	200	136	96	136	200	4.55
kcatb	1	2	2	2	4000	20	50	20	5	4	0	0	0	0	0	0	0	0

Keq



minimal phi coi	nstraint
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[1,]

[,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13] [,14] [,15] [,16] [,17] [,18] 0 0 0 0 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[1,]