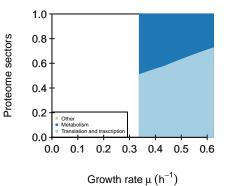
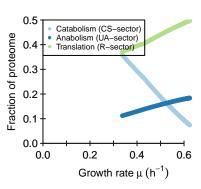


Proteome sectors





	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
С	1	-0.2	-0.1	0	0	-0.167	0	0	0	0	0	0	0
I	0	0.1	0.1	0	-1	0	-0.18	0	0	0	0	0	0
AA	0	0	0	0	1	-0.167	0	0	0	0	0	-0.01	0
NT	0	0	0	-1	0	0.334	0	-1	-1	-1	-1	0	0
ADP	0	-0.8	-0.9	1	0	0.666	0.82	0	0	0	0	0.05	0.05
ATP	0	0.8	0.9	0	0	-0.666	-0.82	0	0	0	0	-0.05	-0.05
LIP	0	0	0	0	0	0	0.18	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	1	0	0	0	0	0
mRNA	0	0	0	0	0	0	0	0	1	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	1	0	-0.94	0.94
DNA	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	0.95	-0.95
р	0	0	0	0	0	0	0	0	0	0	0	0	0.01

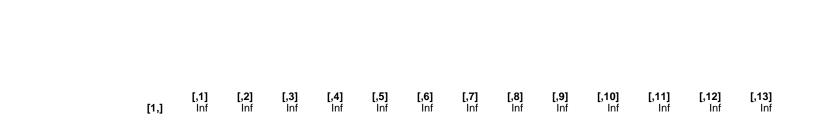
	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0.03	0	0	0	0	0	0	Ō	Ō	Ō	Ō	0	0
x_W	0	10	0	0	0	0	0	0	0	0	0	0	0
С	3	0.01	0.1	0	0	0.5	0	0	0	0	0	0	0
I	0	10	10	0	1	0	1	0	0	0	0	0	0
AA	0	0	0	0	3	1	0	0	0	0	0	1	0
NT	0	0	0	1	0	5	0	4	4	4	4	0	0
ADP	0	0.5	0.5	1	0	5	1	0	0	0	0	3	3
ATP	0	10	10	0	0	1	2	0	0	0	0	1	1
LIP	0	0	0	0	0	0	5	0	0	0	0	0	0
rRNA	0	0	0	0	0	0	0	1	0	0	0	0	0
mRNA	0	0	0	0	0	0	0	0	1	0	0	0	0
tRNA	0	0	0	0	0	0	0	0	0	1	0	5	5
DNA	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	5	5
р	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	FERM	ATPS	ADPS	EAA	ENT	LIPS	rRNAp	mRNAp	tRNAp	DNAp	tRNAc	r
x_C	0	0	0	0	0	0	0	Ō	Ō	Ō	Ō	0	0
x_W	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
I	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
NT	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
ATP	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	60	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	50
mRNA	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
DNA	0	0	0	0	0	0	0	8	8	8	8	0	0
TC	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

kcat

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]
kcatf	250	7000	1000	8	7	100	33	5	3	5	8	9000	750
kcatb	0	0	0	0	0	0	0	0	0	0	0	0	0

Keq



minimal phi constraint

	[.1]	ſ. 2 1	ſ. 3 1	[.4]	ſ. 5 1	ſ. 6 1	[.7]	[.81	ſ. 9 1	[,10]	[.11]	[.12]	ſ.13 1
[1,]	Ö	Ö	Ö	Ō	Ö	Ö	Ō	Ö	Ō	Ö	Ö	Ö	Ö

minimal f constraint

[,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12 0 0 0 0 0 0 0 0 0 0 0										
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[,13] 0