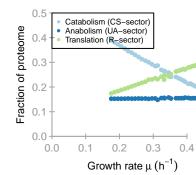


Proteome sectors



	tC	tW	tCO2	GLY	RES	FER	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	rRNase	mRNase	tRNAse	DNAp	tRNAc	r
С	1	0	0	-0.2	0	0	0	-0.5	-0.167	0	0	0	Ô	0	0	0	0	Ō	0	0
AA	0	0	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	0	0	-1	0	0.334	0	0	-1	-1	-1	1	1	1	-1	0	0
ADP ATP	0	0	0	-0.8	-0.98	0	1	0	0.666	0.82	1	0	0	0	0	0	0	0	0.05 -0.05	0.05
ATP	0	0	0	0.8	0.98	0	0	0	-0.666	-0.82	-1	0	0	0	0	0	0	0	-0.05	-0.05
CI	0	0	0	0.2	-0.02	-1	0	-0.5	0	-0.18	0	0	0	0	0	0	0	0	0	0
W	0	-1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2	0	0	-1	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	0	0	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	0	0	1	0	0	-1	0	0	0	0	0
mRNA	0	0	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	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	0	0	1	0	0
TC	0	0	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	0	0.01

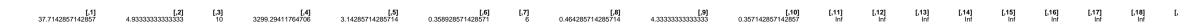
	tC	tW	tCO2	GLY	RES	FER	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	rRNase	mRNase	tRNAse	DNAp	tRNAc	r
x_C	0.5	0	0	0	0	0	0	0	0	0	0	Ö	Ö	Ö	0	0	0	Ö	0	0
x_C x_W x_CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
С	2	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
AA NT ADP ATP CI	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
NT	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	2	1	0	0
ADP	0	0	0	1	1	0	2	0	0	2	2	0	0	0	0	0	0	0	0	2
ATP	0	0	0	4	4	0	0	0	2	2	2	0	0	0	0	0	0	0	2	2
	0	0	0	82	28	28	0	28	0	28	0	0	0	0	0	0	0	0	0	0
W	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2 LIP	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	0	0	0	0	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	14	0	0	5	0	0	0	0	0
mRNA tRNA DNA TC	0	0	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	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	0	0
TC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	tC	tW	tCO2	GLY	RES	FER	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	0	0	Ö	Ö	Ō	0	0	0	Ö	0	0
x_C x_W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
x_CO2	0	0	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	0	0
AA	0	0	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	0	0
ADP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATP CI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CI	0	0	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	0	0
CO2 LIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIP	35	35	35	0	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	0	0	45
mRNA	0	0	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	0	0
DNA TC	0	0	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	0	0
р	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

kcat

	tC	tW	tCO2	GLY	RES	FER	ADPS	EAA	ENT	LIPS	Maint	rRNAp	mRNAp	tRNAp	rRNase	mRNase	tRNAse	DNAp	tRNAc	r
kcatf	66	148	10	342	11	201	3	13	26	20	10	10	1	1	10	10	10	1	11852	593
kcatb	7	15	1	34	1	20	1	1	3	2	0	0	0	0	0	0	0	0	0	0

Keq



phi input

[,11] 0.112

[,12] 0.01

[,13] 0.01 **[,14]** 0.01 **[,15]** 0.001 **[,16]** 0.001 [,17] [,18] 0.001 0.02 [**,20]** 0.3



[,10] 0.1

[,9] 0.035

[,**7]** [,**8]** 0.01 0.15

[,**3]** [,**4]** 0.07

[1,]

[,5] 0.07 **[,6]** 0.01

average saturation input

minimal phi	constraint
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[1,]