

Supplementary data for:

RNA-seq based transcriptomic analysis of single bacterial cells

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Suppl. Fig. S1: Estimation of total RNA from a single *Synechocystis* cell. Total RNA was isolated from 10^7 cells from 0, 24 and 72 h after nitrogen starvation treatments, respectively. Cell number was determined by directly counting under microscopes.

Suppl. Fig. S2: cDNA bioanalyzer results. Samples 1-3, represents 3 single cell amplified cDNAs derived from cell-1, 2 and 3 (24 h), respectively, sample 4-6 represents cell-4, 5 and 6 (72 h), respectively, with RNA ladder as the control.

Suppl. Fig. S3: Expression level variation among single cells based on BaSiC RNA-seq results.

I) Variation verse expression level: **A)** 24 h and **B)** 72 h. X-axis represents gene expression level which is median measurement of three single cells, while Y-axis represents variation which is standard deviation divided by the median measurement of three single cells.

II) Variation verse expression level with expression levels lower than 500 considered as background noises and excluded from the plots: **C)** 24 h and **D)** 72 h.

Suppl. Fig. S4: BaSiC RNA-seq results of selected genes, *slr0495* and *slr1684*.

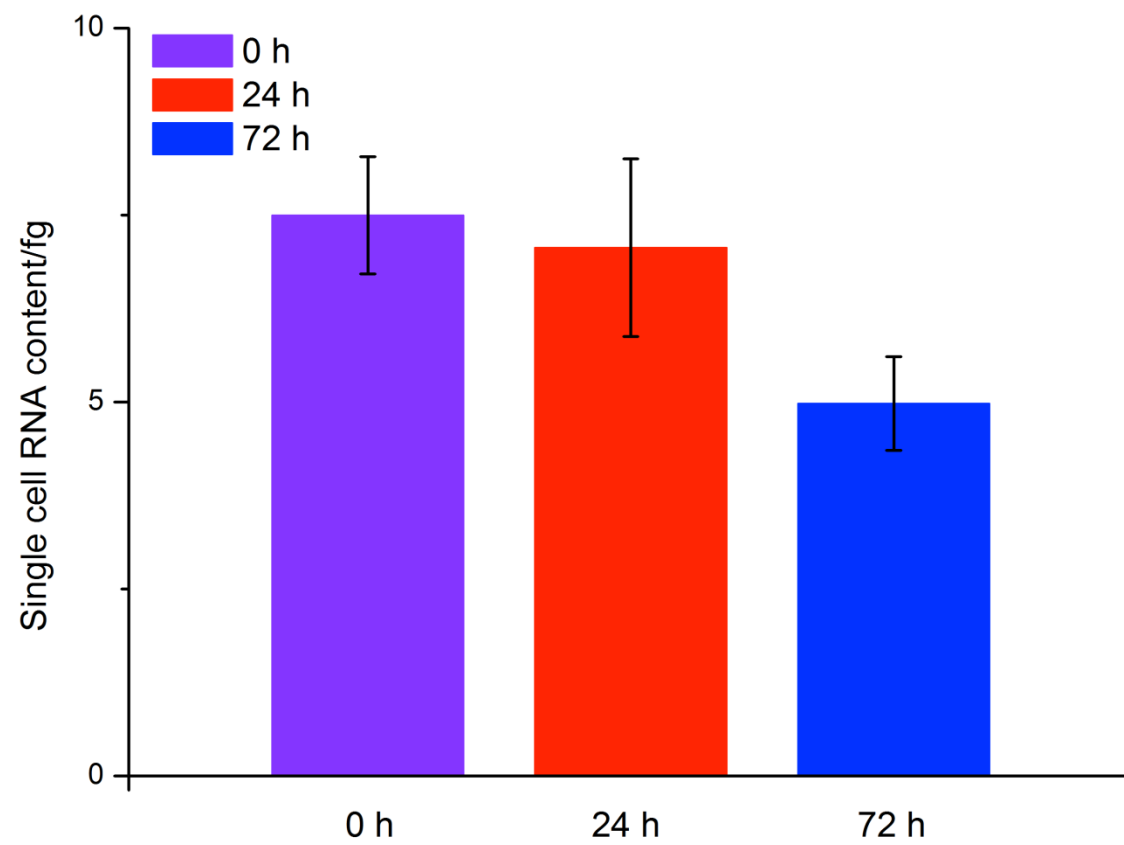
Cell-1, 2, 3 and cell-4, 5, 6 were derived from nitrogen starvation 24 and 72 h, respectively. Each number behind cell number represents its RPKM reads.

Suppl. Table S1: RNA-seq quality control, including reads, Q scores.

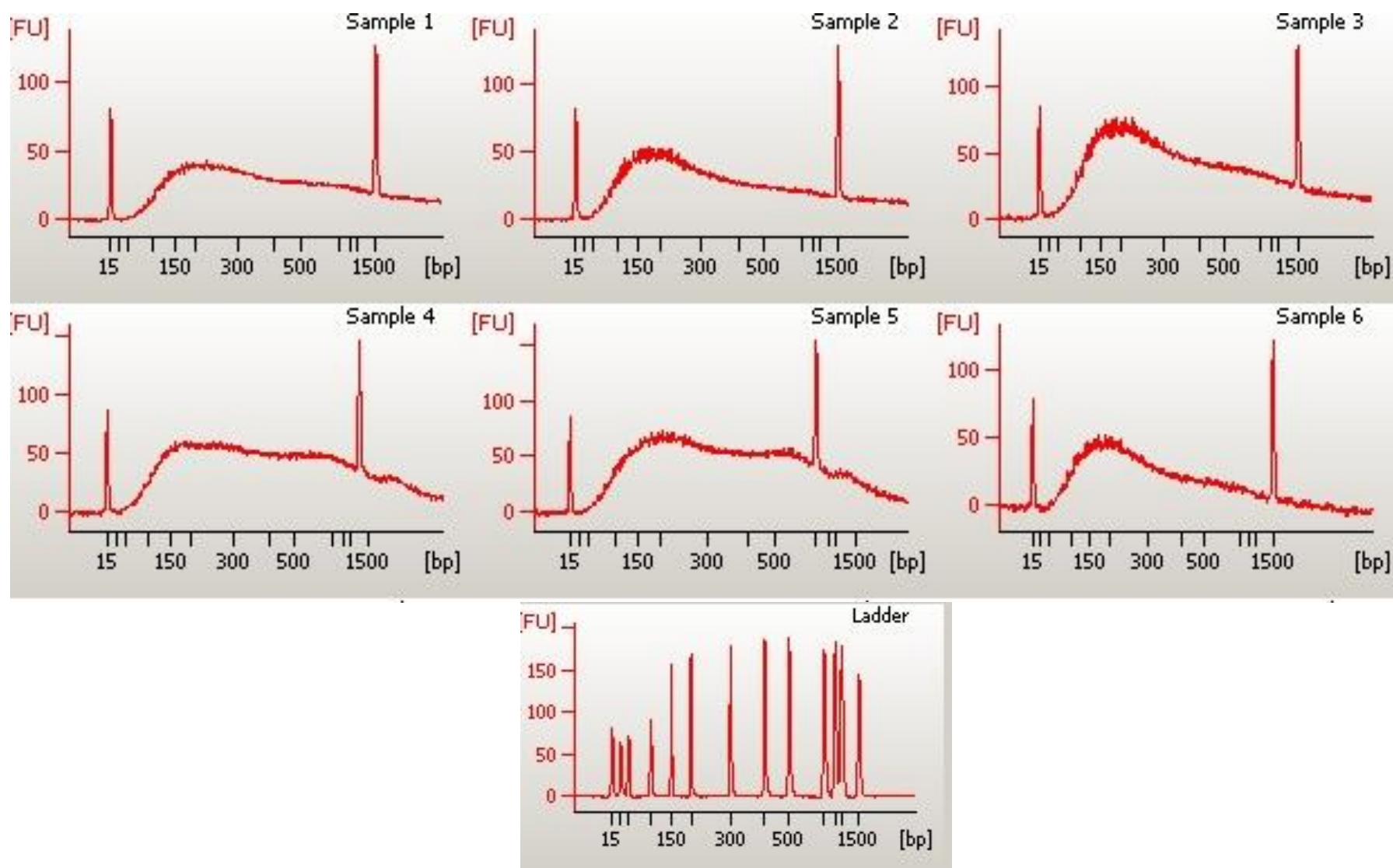
Suppl. Table S2: Functional categories Spearman's correlation analysis,
including all functional categories. The numbers indicated the cell-to-cell correlation
cofactor and p-values based on single cell BaSiC RNA-seq based on 424 genes
detected in all single cells.

Suppl. Table S3: RPKM values of all transcripts detected in the samples.

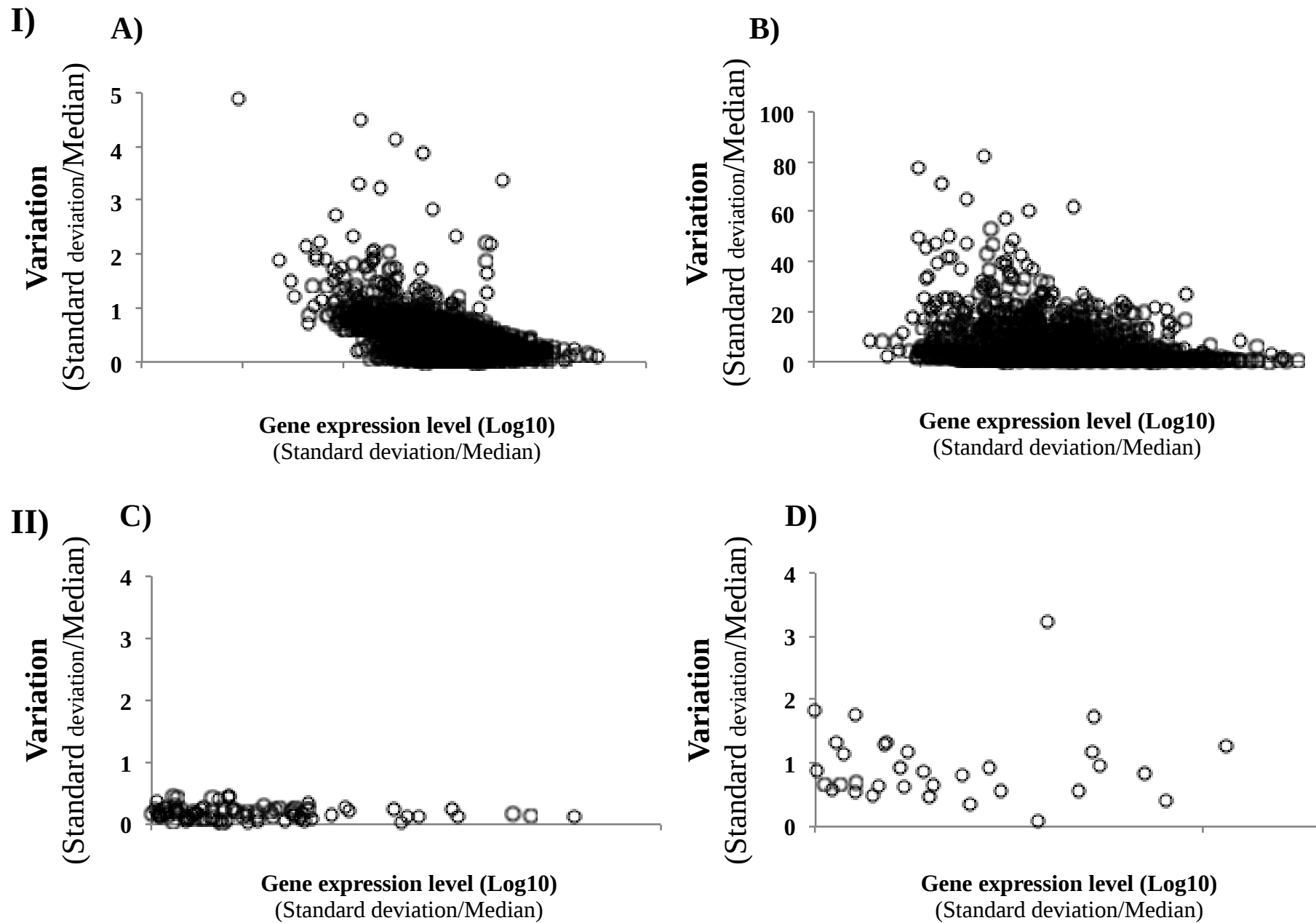
Suppl. Fig. 1



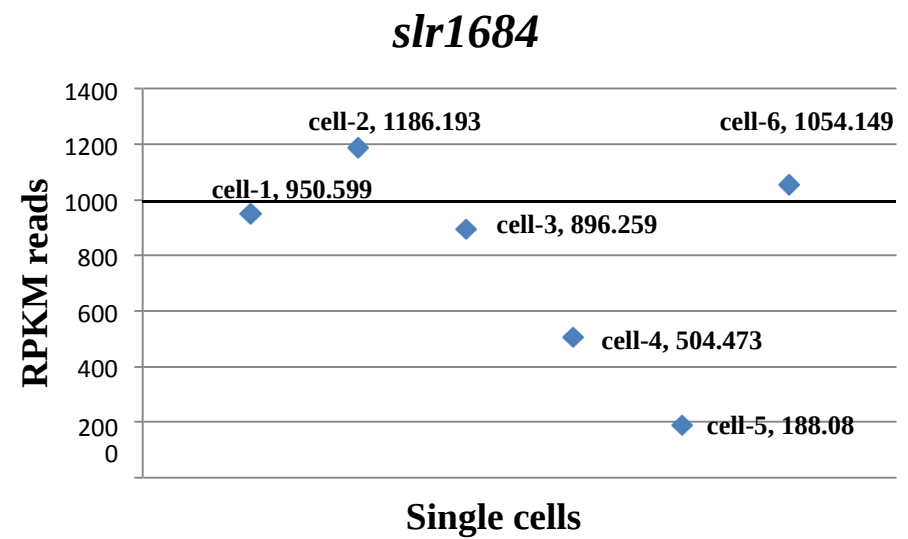
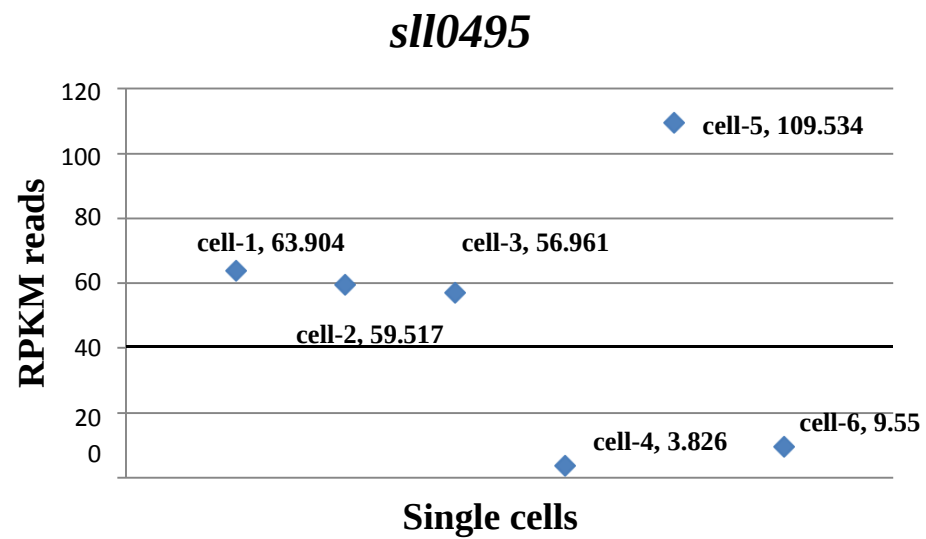
Suppl. Fig. 2



Suppl. Fig. 3



Suppl. Fig. 4



Supple. Table S1. RNA-seq quality control, including sequencing lanes, labeling index, yield, number of reads and Q scorces.

Lane	Sample ID	Index	Yield (Mbases)	# reads	% of Q scores >= 30	Mean Q score
3	cell4	AAGGGA	967	18953867	98.22	38.71
3	cell5	CCTTCA	3156	61875959	98.17	38.67
3	cell6	GGACCC	734	14396597	98.08	38.66
3	72h bulk	TTCAGC	905	17742532	98.25	38.71
4	cell4	AAGGGA	1003	19665406	98.41	38.77
4	cell5	CCTTCA	3283	64368987	98.36	38.74
4	cell6	GGACCC	764	14983287	98.28	38.72
4	72h bulk	TTCAGC	938	184013338	98.45	38.77
6	0h bulk	TTCAGC	332	6511384	99.03	39.04
6	cell1	AAGACG	344	67362	99.05	39.06
6	cell2	CCTCGG	497	9754203	99.22	39.15
6	cell3	GGATGT	624	12226804	99.12	39.07
6	24h bulk	TTCGCT	639	12521199	99.14	39.08
7	0h bulk	TTCAGC	336	6579811	98.31	38.8
7	cell1	AAGACG	347	6798140	98.33	38.82
7	cell2	CCTCGG	503	9855965	98.49	38.91
7	cell3	GGATGT	631	12378355	98.39	38.83
7	24h bulk	TTCGCT	646	12674327	98.41	38.83

Suppl. Table S2: Functional categories Spearman's correlation analysis based on single cell BaSiC RNA-seq based on 426 genes detected in all single cells, including all function categories. The numbers indicated the correlation cofactor and *p*-values.

Function category	Gene #	cell1 vs. cell2	cell-1 vs. cell3	cell2 vs. cell3	cell4 vs. cell5	cell4 vs. cell6	cell5 vs. cell6
		1.0000	0.80000	0.80000	0.40000	0.00000	0.70000
Amino acid biosynthesis	5	<0.0001	0.1041	0.1041	0.5046	1.0000	0.1881
Biosynthesis of cofactors, prosthetic groups, and carriers	6	1.00000	0.94286	0.94286	-0.48571	0.25714	-0.37143
		<0.0001	0.0048	0.0048	0.3287	0.6228	0.4685
		0.96364	0.93636	0.86364	-0.39091	0.12727	0.13636
Cell envelope	11	<0.0001	<0.0001	0.0008	0.2345	0.7092	0.6893
		0.89286	1.00000	0.89286	-0.14286	-0.39286	-0.35714
Cellular processes	7	0.0068	<0.0001	0.0068	0.7599	0.3833	0.4316
		0.94286	0.48571	0.60000	0.02857	0.31423	0.25714
Central intermediary metabolism	6	0.0048	0.3287	0.2080	0.9572	0.5441	0.6228
		0.98333	0.81667	0.80000	0.25000	-0.45000	-0.10000
DNA metabolism	9	<0.0001	0.0072	0.0096	0.5165	0.2242	0.7980
		0.97177	0.85997	0.78543	0.14737	-0.04912	0.12705
Energy metabolism	22	<0.0001	<0.0001	<0.0001	0.5128	0.8281	0.5732
		0.96177	0.80678	0.78501	0.15555	0.14660	0.16694
Hypothetical protein	180	<0.0001	<0.0001	<0.0001	0.0371	0.0496	0.0251
Mobile and extrachromosomal element functions	28	0.99110	0.82781	0.84422	0.76225	0.73910	0.81409
		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
		1.00000	0.80952	0.80952	-0.45238	0.52381	0.26190
No Data	8	<0.0001	0.0149	0.0149	0.2604	0.1827	0.5309
		0.96503	0.75524	0.74126	-0.32867	0.31469	0.10490
Protein fate	12	<0.0001	0.0045	0.0058	0.2969	0.3191	0.7456
		1.00000	0.90000	0.90000	0.60000	0.70000	0.30000
Protein synthesis	5	<0.0001	0.0374	0.0374	0.2848	0.1881	0.0374
Purines, pyrimidines, nucleosides, and nucleotides	6	0.94286	0.82857	0.94286	0.42857	-0.02857	0.14286
		0.0048	0.0416	0.0048	0.3965	0.9572	0.7872
		0.99221	0.82338	0.79870	0.31558	0.04286	0.37792
Regulatory functions	21	<0.0001	<0.0001	<0.0001	0.1635	0.8537	0.0912
		0.80000	0.80000	1.00000	0.40000	0.40000	-0.40000
Transcription	4	0.2000	0.2000	<0.0001	0.6000	0.6000	0.6000
		0.85714	0.83929	0.84643	0.07500	0.52500	0.51786
Transport and binding proteins	15	<0.0001	<0.0001	<0.0001	0.7905	0.0445	0.0480
		0.98462	0.86422	0.87277	0.34960	0.15321	0.48038
Unclassified	79	<0.0001	<0.0001	<0.0001	0.0016	0.1776	<0.0001

sl00629	37.502	7	54.568	0	0	44.509	3	26.9	0	251.606 0 0									
slr0737	38.03	107.39	0	0	0	53.183	60.704	34.213	48.514	4.685 0	0	0	0	0	0	0	0	0	0
sl0258	38.085	3	65.584	0	0	46.586	94.004	38.797	42.789			0							
slr0752	40.274	107.73	40.643		8.225	53.16	79.314	44.879	31.82			271.684	49.477	0		0			
slr1755	40.448	9	31.9	0	4.597	42.506	99.297	29.355	0			6.565 0	0	0	0	0	0		
slr1743	41.391	108.00	34.762	7.123	12.143	37.805	98.803	27.418	34.02			12.839 0	0	0	0				
slr1743	41.391	6	34.762	9.318	12.22	37.805	161.15	27.418	34.02			4.289 0	0						
sl11051	41.601	108.29	16.314	15.23	25.49	41.14	4 92.48	25.824	32.042			3.662 0	0						
smr0010	41.829	9	0	1	11.617	26.526		0				3.522 0	0						
sl11327	42.145	108.39	55.868	15.23	0	49.92		37.455	21.87			184.416	4.372	0	0	0	0		
sl11030	42.329	8	34.848	1 0	239.22	48.141		48.101	68.208			8.05 0	0						
slr1853	42.437	108.44	0	0	4	58.532		42.616	120.86			4.307 0	0	0	0				
slr2007	43.227	5	14.425	0	17.327	39.855		28.444	28.234			28.019 0	0	0	0	0	0		
sl11841	43.421	108.52	24.329	0	178.15	38.854		46.375	47.62	49.72	0	5.543	0	8.246	0	12.369	0	0	0
sl11561	43.822	9	35.516	0	3 0	36.537		36.417	41.71			6.074 0	0						
slr0710	44.976		41.022	0		67.28		46.916	48.175				4.61 0						
sl11028	45.204		62.851	7.107		62.349		80.557				169.401 0	17.743	0	0	0	0		
smr0004	45.277		85.845	9.337		35.325		33.855	0	200.29	200.29	0	0	0	0	0	0	0	0
sl0741	46.268		49.862	661.43		53.752		46.847	45.927				5.41 0						
slr2033	46.554		60.684	82.615		38.349		41.881	59.388			279.528	72.334	16.765	0	0	0		
sl0573	46.969		45.562	0		64.281		42.675	22.295			11.396 0	0						
sl11479	47.65		41.408	457.50		43.004		46.268	0										
slr1878	47.805		12.893	1 0		45.663		48.302	25.235										
sl0685	47.971		64.779	0		55.217		55.352	42.264										
sl11324	48.128		97.768	0		89.084		53.98	0										
sl0107	48.372		34.006	0		47.478		56.997	33.28										
slr1655	48.421		155.934	0		117.20		70.281	87.203										
slr0844	48.912		41.286	0		3		37.652	30.304										
slr0844	48.912		41.286	14.9		43													

4.578	0	E	s	o	t	r	E	s	olism	Energy
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0	13.358	g	n	m	l	a	m	n	metabolism	Energy
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0	0	r	E	s	o	t	r	r	metabolism	Energy
0	0	m	g	n	m	l	a	m	metabolism	Energy
0	0	e	y	e		i	b	e	metabolism	Energy
0	0	t	r	E	s	o	t	t	metabolism	Energy
0	0	a	m	g	n	m	l	a	metabolism	Energy
0	0	b	e	y	e		i	b	metabolism	Energy
0	0	o	t		r	E	s	o	metabolism	Energy
0	0	l	a	m	g	n	m	l	metabolism	Energy
1.192	0	i	b	e	y	e	i	b	metabolism	Energy
0	10.307	s	o	t	r	E	s	o	metabolism	Energy
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0	0		i	b	e	y	e	i	metabolism	Energy
0.492	0	E	s	o	t	r	E	s	metabolism	Energy
5.091	0	n	m	l	a	m	g	n	metabolism	Energy
1.911	0	e		i	b	e	y	e	metabolism	Energy
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0	0	g	n	m	l	a	m	g	metabolism	Energy
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0	0	m	g	n	m	l	a	m	metabolism	Energy
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78.82	0	b	e	y	e		i	b	metabolism	Energy
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0	9.348	l	a	m	g	n	m	l	metabolism	Energy
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257.947	39.906	m	l	a	m	g	n	m	metabolism	Energy
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1.025	0	n	m	l	a	m	g	n	metabolism	Energy
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131.224	0	r	E	s	o	t	r	E	metabolism	Energy
0	0	g	n	m	l	a	m	g	metabolism	Energy
1.273	38.117	y	e		i	b	e	y	metabolism	Energy
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50.796	0	e	y	e		i	b	e	metabolism	Energy
55.518	43.19	t	r	E	s	o	t	t	metabolism	Energy
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5.368	0	g	n	m	l	a	m	g	metabolism	Energy
0	0	y	e		i	b	e	y	metabolism	Energy
2.466	9.231	r	r	E	s	o	t	r	metabolism	Energy
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0	0	e	y	e		i	b	e	metabolism	Energy
0	0	t	r	E	s	o	t	t	metabolism	Energy
0	0	a	m	g	n	m	l	a	metabolism	Energy
0	0	b	e	y	e		i	b	metabolism	Energy
7.475	0	o	t		r	E	s	o	metabolism	Energy
7.475	0	l	a	m	g	n	m	l	metabolism	Energy
26.465	4.128	i	b	e	y	e		i	metabolism	Energy
4.973	0	s	o	t	r	E	s	o	metabolism	Energy
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0	0	E	s	o	t	r	E	s	metabolism	Energy
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125.953	12.248	r	E	s	o	t	r	E	metabolism	Energy
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12.321	0	y	e		i	b	e	y	metabolism	Energy
16.274	382.971	r	E	s	o	t	r	E	metabolism	Energy
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1.636	0	b	e	y	e		i	b	metabolism	Energy
9.952	0	o	t		r	E	s	o	metabolism	Energy
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0	0	i	b	e	y	e		i	metabolism	Energy

[illegible]

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0		o	t		r	s	o	t	metabolism	Energy	
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0			i	b	e	y		i	metabolism	Energy	
0		E	s	o	t	r	E	s	metabolism	Energy	
0		n	m	l	a	m	n	m	metabolism	Energy	
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0		r	E	s	o	t	r	E	metabolism	Energy	
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0		y	e		i	b	e	e	metabolism	Energy	
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0		o	t		r	E	s	o	metabolism	Energy	
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0		i	b	e	y	e	i	b	metabolism	Energy	
0		s	o	t	r	E	s	o	metabolism	Energy	
0		m	l	a	m	g	n	l	metabolism	Energy	
0			i	b	e	y	e	i	metabolism	Energy	
0		E	s	o	t	r	E	s	metabolism	Energy	
7.896		n	m	l	a	m	n	m	metabolism	Energy	
0		e		i	b	e	e		metabolism	Energy	
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0		g	n	m	l	a	g	n	metabolism	Energy	
0		y	e		i	b	e	e	metabolism	Energy	
0			r	E	s	o	t	r	metabolism	Energy	
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0		o	t		r	E	s	o	metabolism	Energy	
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1430.98		i	b	e	y	e	i	b	metabolism	Energy	
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9.25		e		i	b	e	e		metabolism	Energy	
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8.406		g	n	m	l	a	g	n	metabolism	Energy	
0		y	e		i	b	e	e	metabolism	Energy	
0			r	E	s	o	t	r	metabolism	Energy	
0		m	g	n	m	l	a	m	metabolism	Energy	
0		e	y	e		i	b	e	metabolism	Energy	
25.411		t		r	E	s	o	t	metabolism	Energy	
25.411		a	m	g	n	m	l	a	metabolism	Energy	
2039.67		b	e	y	e		i	b	metabolism	Energy	
2		o	t		r	E	s	o	metabolism	Energy	
2210.78		l	a	m	g	n	l	a	metabolism	Energy	
5 8.479		i	b	e	y	e	i	b	metabolism	Energy	
0		s	o	t	r	E	s	o	metabolism	Energy	
0		m	l	a	m	g	n	l	metabolism	Energy	
442.157			i	b	e	y	e	i	metabolism	Energy	
11.854		E	s	o	t	r	E	s	metabolism	Energy	
9.289		n	m	l	a	m	n	m	metabolism	Energy	
15.194		e		i	b	e	e		metabolism	Energy	
0		r	E	s	o	t	r	E	metabolism	Energy	
54.086		g	n	m	l	a	g	n	metabolism	Energy	
0		y	e		i	b	e	e	metabolism	Energy	
14.497			r	E	s	o	t	r	metabolism	Energy	
0		m	g	n	m	l	a	m	metabolism	Energy	
0		e	y	e		i	b	e	metabolism	Energy	
0		t		r	E	s	o	t	metabolism	Energy	
114.548		a	m	g	n	m	l	a	metabolism	Energy	
0		b	e	y	e		i	b	metabolism	Energy	
14.641		o	t		r	E	s	o	metabolism	Energy	
8.687		l	a	m	g	n	l	a	metabolism	Energy	
0		i	b	e	y	e	i	b	metabolism	Energy	
14.172		s	o	t	r	E	s	o	metabolism	Energy	
67.15		m	l	a	m	g	n	l	metabolism	Energy	
67.15			i	b	e	y	e	i	metabolism	Energy	
0		E	s	o	t	r	E	s	metabolism	Energy	
9.135		n	m	l	a	m	n	m	metabolism	Energy	
39.129		e		i	b	e	e		metabolism	Energy	
0		r	E	s	o	t	r	E	metabolism	Energy	
36.542		g	n	m	l	a	g	n	metabolism	Energy	
0		y	e		i	b	e	e	metabolism	Energy	
0			r	E	s	o	t	r	metabolism	Energy	
8.914		m	g	n	m	l	a	m	metabolism	Energy	
9.192		e	y	e		i	b	e	metabolism	Energy	
14.356		t		r	E	s	o	t	metabolism	Energy	
14.356		a	m	g	n	m	l	a	metabolism	Energy	
0		b	e	y	e		i	b	metabolism	Energy	
661.495		o	t		r	E	s	o	metabolism	Energy	
0		l	a	m	g	n	l	a	metabolism	Energy	
0		i	b	e	y	e	i	b	metabolism	Energy	

0	0	0	H	e	t	p	n	r	cal	proteins
2.579	0	96.541	y	i	p	i	o	s	o	Hypothetical proteins
11.88	0	0	p	n	r	c	t	t	e	Hypothetical proteins
9 0	0	0	o	s	o	a	h	H	e	Hypothetical proteins
3.714	42.11	0	t	t	t	l	e	y	i	Hypothetical proteins
0	6 0	0	h	H	e	t	p	n	n	Hypothetical proteins
822.324	16.17	58.642	e	y	i	p	i	o	s	Hypothetical proteins
1430.13	8	69.087	t	p	n	r	c	t	t	Hypothetical proteins
3 0	4.072	0	i	o	s	o	a	h	H	Hypothetical proteins
0	0	0	c	t	t	t	e	l	y	Hypothetical proteins
0	0	108.6	a	h	H	e	t	t	p	Hypothetical proteins
478.02	0	35.092	l	e	y	i	p	i	o	Hypothetical proteins
9	0	0	t	t	p	n	r	c	t	Hypothetical proteins
6.151	15.791	p	i	o	s	o	a	h	e	Hypothetical proteins
2.109	0	r	c	t	t	t	l	e	t	Hypothetical proteins
0	0	o	a	h	H	e	t	i	p	Hypothetical proteins
0	0	t	l	e	y	i	p	r	c	Hypothetical proteins
0	0	23.519	e	t	p	n	r	c	a	Hypothetical proteins
0	0	i	p	i	o	s	o	a	l	Hypothetical proteins
0	0	n	r	c	t	t	t	e	p	Hypothetical proteins
63.66	0	s	o	a	h	H	e	e	p	Hypothetical proteins
1	0	t	t	l	e	y	i	n	r	Hypothetical proteins
96.67	0	H	e	t	p	n	s	o	t	Hypothetical proteins
6 0	501.111	y	i	p	i	o	s	t	e	Hypothetical proteins
0	143.209	p	n	r	c	t	t	e	i	Hypothetical proteins
0	36.542	o	s	o	a	h	H	e	n	Hypothetical proteins
2.391	0	t	t	t	l	e	y	i	s	Hypothetical proteins
883.3	0	h	H	e	t	t	p	n	t	Hypothetical proteins
2 0	0	e	y	i	p	i	o	s	t	Hypothetical proteins
0	43.562	t	p	n	r	c	t	t	H	Hypothetical proteins
0	0	i	o	s	o	a	h	H	y	Hypothetical proteins
491.60	16.137	c	t	t	t	l	e	p	p	Hypothetical proteins
4	0	a	h	H	e	t	t	i	o	Hypothetical proteins
2.534	0	l	e	y	i	p	i	c	t	Hypothetical proteins
4.31	181.708	t	p	n	r	c	t	t	h	Hypothetical proteins
0	232.714	p	i	o	s	o	a	l	e	Hypothetical proteins
0	9.488	r	c	t	t	t	e	t	i	Hypothetical proteins
0	0	o	a	h	H	e	p	r	c	Hypothetical proteins
0	0	t	l	e	y	i	n	r	c	Hypothetical proteins
32.94	0	e	t	p	n	s	o	a	l	Hypothetical proteins
7	0	i	p	i	o	s	t	t	p	Hypothetical proteins
1.982	0	n	r	c	t	t	e	i	p	Hypothetical proteins
0	0	s	o	a	h	H	e	n	r	Hypothetical proteins
55.94	0	t	l	e	y	i	p	c	t	Hypothetical proteins
3 0	0	H	e	t	p	n	s	o	t	Hypothetical proteins
0	0	y	i	p	i	o	s	t	e	Hypothetical proteins
0	0	p	n	r	c	t	t	i	p	Hypothetical proteins
0	0	o	s	o	a	h	H	e	n	Hypothetical proteins
0	0	t	t	t	l	e	y	i	s	Hypothetical proteins
0	34.276	h	H	e	t	p	o	s	t	Hypothetical proteins
0	0	e	y	i	p	i	c	t	H	Hypothetical proteins
0	0	t	p	n	r	c	t	t	y	Hypothetical proteins
0	6.39	i	o	s	o	a	h	e	p	Hypothetical proteins
480.64	0	c	t	t	t	l	e	y	t	Hypothetical proteins
5 0	0	a	h	H	e	t	t	p	o	Hypothetical proteins
32.657	0	l	e	y	i	p	i	c	t	Hypothetical proteins
21.333	28.343	p	t	p	n	r	c	t	h	Hypothetical proteins
0	30.92	i	i	o	s	o	a	l	e	Hypothetical proteins
0	0	r	c	t	h	H	e	t	t	Hypothetical proteins
0	0	o	a	h	H	e	t	p	i	Hypothetical proteins
158.98	888.176	t	l	e	y	i	p	r	c	Hypothetical proteins
3	0	e	t	p	n	s	o	a	l	Hypothetical proteins
8.259	13.861	i	p	i	o	s	t	t	e	Hypothetical proteins
2.353	0	n	r	c	t	t	e	n	p	Hypothetical proteins
156.88	0	s	o	a	h	H	e	i	p	Hypothetical proteins
1 0	31.433	t	t	l	e	y	i	n	r	Hypothetical proteins
0	0	H	e	t	p	n	s	o	t	Hypothetical proteins
0	0	y	i	p	i	o	s	t	e	Hypothetical proteins
8.	23.15	p	n	r	c	t	h	y	i	Hypothetical proteins
6	73.54	o	s	o	a	h	H	e	n	Hypothetical proteins
0	0	t	t	t	l	e	y	i	s	Hypothetical proteins
326.03	0	h	H	e	t	p	o	s	t	Hypothetical proteins
8 0	0	e	y	i	p	i	c	t	H	Hypothetical proteins
7.149	0	t	p	n	r	c	t	e	y	Hypothetical proteins
0	0	i	o	s	o	a	h	H	p	Hypothetical proteins
0	0	c	t	t	t	l	e	t	p	Hypothetical proteins
0	28.374	a	h	H	e	t	t	i	o	Hypothetical proteins
0	0	l	e	y	i	p	i	c	t	Hypothetical proteins
0	130.687	t	t	p	n	r	c	t	h	Hypothetical proteins
2.72	0	p	i	o	s	o	a	e	t	Hypothetical proteins
1	213.947	r	c	t	t	t	l	e	t	Hypothetical proteins
15.8	0	o	a	h	H	e	i	p	c	Hypothetical proteins
0	0	t	l	e	y	n	r	c	t	Hypothetical proteins
80.208	0	e	t	t	p	n	s	o	a	Hypothetical proteins
49.696	0	i	p	i	o	s	t	t	l	Hypothetical proteins
153.202	0	n	r	c	t	t	e	i	p	Hypothetical proteins
107.029	23.645	s	o	a	h	H	e	n	r	Hypothetical proteins
5781.25	0	t	l	e	y	p	n	s	o	Hypothetical proteins
1 2.307	0	H	e	t	t	p	i	c	t	Hypothetical proteins
0	0	y	i	p	i	o	s	t	e	Hypothetical proteins
14.093	0	p	n	r	c	t	h	H	y	Hypothetical proteins
0	192.242	o	s	o	a	h	e	p	n	Hypothetical proteins
0	0	t	t	t	l	e	t	o	s	Hypothetical proteins
0	0	h	H	e	i	p	r	c	t	Hypothetical proteins
0	0	e	y	n	r	c	t	h	y	Hypothetical proteins
2.684	0	t	p	s	o	a	l	e	p	Hypothetical proteins
0	25.857	i	o	t	t	e	t	i	o	Hypothetical proteins
63.65	0	c	t	h	H	e	t	p	c	Hypothetical proteins
7	0	a	h	e	y	i	p	r	c	Hypothetical proteins
58.35	0	l	t	p	n	r	c	a	h	Hypothetical proteins
4.788	0	0	t	p	s	o	t	l	e	Hypothetical proteins
2.212	39.42	p	i	o	s	o	a	t	i	Hypothetical proteins
373.07	0	r	c	t	t	t	l	e	t	Hypothetical proteins
2 0	0	o	a	h	H	e	t	i	p	Hypothetical proteins
0	10.165	t	l	e	y	i	p	t	i	Hypothetical proteins

sl0032	289.778	301.024	0	279.05	2	223.732	362.581	0	0	0 27.182							
slr0625	291.526	209.16	12.64	258.10		368.33	211.906	112.935	12.471	25.411							
slr1957	293.884	328.941	201.775	1	7 254.8	214.046	257.534	0	0	12.455	163.762	5.862	0	0	0	0	0
sl0297	294.182	125.702	15.736	228.65		384.23	212.457	210.889	0	0	17.006	29.875	0 227.395 0	12.966	0 230.508 0	269.334 0	0
sl1761	294.987	154.522	135.407	9	2	165.889	134.42	0	5.761	0	0	0	0	0	0	0	0
slr0879	295.224	317.564	0	214.82		345.86	203.512	155.392	0	4.44	191.647	272.097 0	58.564	0	0	0	0
sl0415	295.686	237.949	130.322	2	5	234.601	174.652	0	3.327	624.787	21.005	106.728	163.762 0	206.023	7.419	41.517	137.103 0
slr1421	296.371	228.126	0	197.06		263.80	263.473	63.787	0	10.935	0	0	0	0	0	0	0
slr1403	296.593	263.654	107.341	5	4	243.611	216.924	11.43	22.117	31.583	0	386.438	25.558	0	0	0	0
sl0462	296.594	287.711	25.212	246.57		322.91	270.425	131.399	5.527	74.014	15.406	0	0	0	0	0	0
slr1906	297.421	252.694	15.817	5	1	234.901	211.971	10.403	0	12.214	0	88.431	7.61	0	0	0	0
slr1206	297.718	249.033	0	249.88		287.19	235.707	162.477	0	52.223	0	121.416	67.815	0	0	0	0
sl0101	298.197	239.2	59.889	9	9	235.834	200.652	98.474	791.164	22.219	163.762	575.41	0 165.035 0	17.408	0	59.151	0
slr0635	299.598	438.552	1753.998	230.85		337.86	299.341	198.088	836.058	15.093	1002.706	117.766	0	0	0	0	0
slr1647	300.306	270.743	23.725	2	3	274.941	238.467	0	0	227.916	0	25.707	13.399	156.055	0	0	0
sl11472	301.791	166.471	20.84	271.98		273.51	257.915	46.548	13.707	7.98	22.675	0	19.739	0	0	0	0
slr1826	302.658	272.65	21.72	7	2	180.838	145.543	14.286	0	18.578	0	86.697	0	0	0	0	0
sl1164	304.732	211.18	44.061	288.65		223.82	293.474	59.049	144.898	8.436	0	0	0	0	0	0	0
slr1847	305.724	214.24	107.279	2	2	205.19	119.809	0	0	0	0	0	0	0	0	0	0
sl0209	306.011	216.754	217.075	269.50		263.11	211.668	262.632	11.898	25.975	0	0	0	0	0	0	0
sl11381	306.132	306.058	0	7	2	251.459	249.603	0	8.558	0	0	0	0	0	0	0	0
sl0298	306.327	183.49	43.852	256.92		318.48	180.907	195.897	9.614	2124.145	0	0	0	0	0	0	0
ssr2803	306.714	209.504	36.718	3	9	313.964	164.025	24.15	84.358	0	0	0	0	0	0	0	0
slr1613	306.966	321.594	125.25	195.35		212.82	211.379	489.577	422.191	32.972	0	0	0	0	0	0	0
slr0334	307.619	221.961	0	5	3	256.352	372.381	164.479	15.96	0	0	0	0	0	0	0	0
sl11659	309.035	232.853</															

[illegible]

0	5.43	N	o		D	a	t	e	i	n fate
0	2 0	o		D	a	t	e	i	n	Protein fate
0	0	D	D	a	a	a	i	n	f	Protein fate
0	28.71	a	a	t	a	N	N	f	a	Protein fate
0	1 0	t	t	a		o	o	a	t	Protein fate
0	0	a			N	o	a	t	e	Protein fate
0	0	N	N	o		D	a	t	e	Protein fate
0	0	o	o		D	a	t		P	Protein fate
0		D	D	a	a	t	a	P	r	Protein fate
0		a	a	t	a			r	o	Protein fate
0		t	t	a		N	o	o	t	Protein fate
0		a			N	o	o	t	e	Protein fate
0			N	o			D	e	i	Protein fate
0		N	o		D	a	a	i	n	Protein fate
0		o		D	a	t	a	n	f	Protein fate
0		D	D	a	t	a	a	f	a	t
70.184		a	a	t	a		N	t	e	e
0		t				N	o	e		P
0		a	N		N	o			P	r
16.498			o		o	D	a	P	r	o
0		o			D	a	t	r	o	t
0			D	a	t	a		o	t	e
0		D	a	t	a			t	e	i
2242.82		a	t	a		N	o	e	i	n
5 0		t			N	o		i	n	f
0		a			o		D	f	a	t
27.809			N	o		D	a	a	t	e
0		o		D	a	t	a	t	e	
0			D	a	t	a		e		P
0		D	a	t	a		N		P	r
0		t	a			N	o	r	o	t
102.097		a			N	o		o	t	e
0			N	o			D	t	e	i
0		N	o		D	a	t	e	i	n
151.642		o		D	a	t	a	i	n	
0			D	a	t	a		n		f
0		D	a	t	a		N		f	a
0		t				N	o	f	a	t
0		a		N	o			t	e	e
32.915			N	o		D	a	e		P
0		o		D	a	t	a		P	r
0		N		o	D	a	t	P	r	o
28.899			D	a	t	a		a	r	o
0		D	a	t	a			o	t	t
0		a	t	a		N	o	t	e	e
14.739		t			N	o		e	i	n
0		a	N	o			D	i	n	f
0			o		D	a	t	n		a
0		N		D	a	t	a	f	a	t
0		o		a	t	a		a	t	e
0		D	a	t	a		N	e		P
20.906		t	a			N	o			r
51.714		a			N	o		P	r	o
78.676			N	o			D	r	o	t
0		N		D	a	t	a	o	t	e
81.881		o		a	t	a		t	e	i
0			D	a	t	a		e	i	n
72.485		D	a	t	a		N	n		f
103.793		a	t			N	o		f	a
23.645		t			N	o		f	a	t
8.67		a			o		D	a	t	e
731.126			N	o		D	a	t	e	
0		o		D	a	t	a	e		P
17.408		N		D	a	t	a		P	r
0		o		a	t	a		a	r	o
0		D	a	t	a			P	r	o
0		a	t	a		N	o	r	o	t
0		t			N	o		o	t	e
0		a			o		t	e	i	n
16.316			N	o		D	a	e	i	n
0		o		D	a	t	a	i	n	f
0			D	a	t	a		n		a
0		D	a	t	a		N	f	a	t
0		t			N	o		a	t	e
0		a			o		t	e		P
596.947		a	N	o		D	a	e	P	r
0			o		D	a	t	r	o	o
0		N		D	a	t	a	o	t	t
0		o		a	t	a		t	e	e
0		D	a	t	a		N	e	i	n
0		a			N	o		i	n	f
0		t	N	o		D	a	n	f	a
0			o		D	a	t	f	a	t
0		N		D	a	t	a	e	e	e
11.194		o		a	t	a		t		P
7.91		D	a	t	a		N		P	r
0		t				o		r	o	t
34.428		a	N	o		D	a	o	t	e
0										i
0		N	o			D	o	t		

129.41	20.19	R	R	R	R	R	R	R	R	Regulatory functions
2 0	0	e	e	e	e	e	e	e	e	Regulatory functions
0	0	g	g	g	g	g	g	g	g	Regulatory functions
0	12.706	u	u	u	u	u	u	u	u	Regulatory functions
11.85	0	l	l	l	l	l	l	l	l	Regulatory functions
4 0	0	a	a	a	a	a	a	a	a	Regulatory functions
0	0	t	t	t	t	t	t	t	t	Regulatory functions
6.55	0	o	o	o	o	o	o	o	o	Regulatory functions
453.31		r	r	r	r	r	r	r	r	Regulatory functions
6 0		y	y	y	y	y	y	y	y	Regulatory functions
0										Regulatory functions
4.35		f	f	f	f	f	f	f	f	Regulatory functions
6		u	u	u	u	u	u	u	u	Regulatory functions
5.89		n	n	n	n	n	n	n	n	Regulatory functions
5		c	c	c	c	c	c	c	c	Regulatory functions
18.5		t	t	t	t	t	t	t	t	Regulatory functions
0		i	i	i	i	i	i	i	i	Regulatory functions
105.27		o	o	o	o	o	o	o	o	Regulatory functions
5 0		n	n	n	n	n	n	n	n	Regulatory functions
0		s	s	s	s	s	s	s	s	Regulatory functions
5.233										Regulatory functions
14.26		R	R	R	R	R	R	R	R	Regulatory functions
3 0		e	e	e	e	e	e	e	e	Regulatory functions
0		g	g	g	g	g	g	g	g	Regulatory functions
99.735		u	u	u	u	u	u	u	u	Regulatory functions
0		l	l	l	l	l	l	l	l	Regulatory functions
294.77		a	a	a	a	a	a	a	a	Transcription
1 0		t	t	t	t	t	t	t	t	Transcription
6.659		o	o	o	o	o	o	o	o	Transcription
26.476		r	r	r	r	r	r	r	r	Transcription
24.981		y	y	y	y	y	y	y	y	Transcription
10.478										Transcription
0		f	f	f	f	f	f	f	f	Transcription
4.034		u	u	u	u	u	u	u	u	Transcription
0		n	n	n	n	n	n	n	n	Transcription
6.445		c	c	c	c	c	c	c	c	Transcription
6.045		t	t	t	t	t	t	t	t	Transcription
26.288		i	i	i	i	i	i	i	i	Transcription
0		o	o	o	o	o	o	o	o	Transcription
0		n	n	n	n	n	n	n	n	Transcription
0		s	s	s	s	s	s	s	s	Transcription
0										Transcription
19.308		R	R	R	R	R	R	R	R	Transcription
434.49		e	e	e	e	e	e	e	e	Transcription
119.50		g	g	g	g	g	g	g	g	Transcription
2		u	u	u	u	u	u	u	u	Transcription
18.977		l	l	l	l	l	l	l	l	Transcription
0		a	a	a	a	a	a	a	a	Transcription
0		t	t	t	t	t	t	t	t	Transcription
119.82		o	o	o	o	o	o	o	o	Transcription
6		r	r	r	r	r	r	r	r	Transcription
30.982		y	y	y	y	y	y	y	y	Transport and binding proteins
0										Transport and binding proteins
0		f	f	f	f	f	f	f	f	Transport and binding proteins
42.51		u	u	u	u	u	u	u	u	Transport and binding proteins
5		n	n	n	n	n	n	n	n	Transport and binding proteins
14.59		c	c	c	c	c	c	c	c	Transport and binding proteins
3 0		t	t	t	t	t	t	t	t	Transport and binding proteins
0		i	i	i	i	i	i	i	i	Transport and binding proteins
11.515		o	o	o	o	o	o	o	o	Transport and binding proteins
1122.66		n	n	n	n	n	n	n	n	Transport and binding proteins
4 0		s	s	s	s	s	s	s	s	Transport and binding proteins
0										Transport and binding proteins
58.435		R	R	R	R	R	R	R	R	Transport and binding proteins
67.431		e	e	e	e	e	e	e	e	Transport and binding proteins
60.987		g	g	g	g	g	g	g	g	Transport and binding proteins
37.63		u	u	u	u	u	u	u	u	Transport and binding proteins
19.564		l	l	l	l	l	l	l	l	Transport and binding proteins
17.663		a	a	a	a	a	a	a	a	Transport and binding proteins
417.78		t	t	t	t	t	t	t	t	Transport and binding proteins
6		o	o	o	o	o	o	o	o	Transport and binding proteins
530.10		r	r	r	r	r	r	r	r	Transport and binding proteins
7 0		y	y	y	y	y	y	y	y	Transport and binding proteins
0										Transport and binding proteins
0		f	f	f	f	f	f	f	f	Transport and binding proteins
0		u	u	u	u	u	u	u	u	Transport and binding proteins
0		n	n	n	n	n	n	n	n	Transport and binding proteins
0		c	c	c	c	c	c	c	c	Transport and binding proteins
0		t	t	t	t	t	t	t	t	Transport and binding proteins
0		i	i	i	i	i	i	i	i	Transport and binding proteins
0		o	o	o	o	o	o	o	o	Transport and binding proteins
0		n	n	n	n	n	n	n	n	Transport and binding proteins
0		s	s	s	s	s	s	s	s	Transport and binding proteins
0										Transport and binding proteins
8.017		R	R	R	R	R	R	R	R	Transport and binding proteins
12.77		e	e	e	e	e	e	e	e	Transport and binding proteins
9 0		g	g	g	g	g	g	g	g	Transport and binding proteins
0		u	u	u	u	u	u	u	u	Transport and binding proteins
98.69		l	l	l	l	l	l	l	l	Transport and binding proteins
6 0		a	a	a	a	a	a	a	a	Transport and binding proteins
0		t	t	t	t	t	t	t	t	Transport and binding proteins
21.83		o	o	o	o	o	o	o	o	Transport and binding proteins
5		r	r	r	r	r	r	r	r	Transport and binding proteins
18.04		y	y	y	y	y	y	y	y	Transport and binding proteins
7										Transport and binding proteins
68.28		f	f	f	f	f	f	f	f	Transport and binding proteins
7 0		u	u	u	u	u	u	u	u	Transport and binding proteins
6.629		n	n	n	n	n	n	n	n	Transport and binding proteins
20.75		c	c	c	c	c	c	c	c	Transport and binding proteins
9 0		t	t	t	t	t	t	t	t	Transport and binding proteins
0		i	i	i	i	i	i	i	i	Transport and binding proteins
15.4		o	o	o	o	o	o	o	o	Transport and binding proteins
6 0		n	n	n	n	n	n	n	n	Transport and binding proteins
0		s	s	s	s	s	s	s	s	Transport and binding proteins
0										Transport and binding proteins

0	83.11	U	n	c	l	a	s	s	i	fied
	2 0	n	c	l	a	s	s	i	f	Unclassified
0	0	c	l	a	s	s	i	f	i	Unclassified
	77.064	l	a	s	s	i	f	i	e	Unclassified
0	713.71	a	s	s	i	f	i	e	d	Unclassified
	8	s	s	i	f	i	e	d		Unclassified
0	844.57	s	i	f	i	e	d		U	Unclassified
5.076	0	i	f	i	e	d		U	n	Unclassified
83.426	33.183	f	i	e	d		U	n	c	Unclassified
8.158	103.30	i	e	d		U	n	c	l	Unclassified
13.904	8 0	e	d		U	n	c	l	a	Unclassified
40.94	0	d		U	n	c	l	a	s	Unclassified
1105.39	0		U	n	c	l	a	s	s	Unclassified
3		U	n	c	l	a	s	s	i	Unclassified
30.992		n	c	l	a	s	s	i	f	Unclassified
0		c	l	a	s	s	i	f	i	Unclassified
2572.72		l	a	s	s	i	f	i	e	Unclassified
8		a	s	s	i	f	i	e	d	Unclassified
25.266		s	s	i	f	i	e	d		Unclassified
354.401		s	i	f	i	e	d		U	Unclassified
0		i	f	i	e	d		U	n	Unclassified
0		f	i	e	d		U	n	c	Unclassified
0		i	e	d		U	n	c	l	Unclassified
0		e	d		U	n	c	l	a	Unclassified
0		d		U	n	c	l	a	s	Unclassified
0			U	n	c	l	a	s	s	Unclassified
0		U	n	c	l	a	s	s	i	Unclassified
0		n	c	l	a	s	s	i	f	Unclassified
13.218		c	l	a	s	s	i	f	i	Unclassified
166.15		l	a	s	s	i	f	i	e	Unclassified
5 0		a	s	s	i	f	i	e	d	Unclassified
0		s	s	i	f	i	e	d		Unclassified
25.55		s	i	f	i	e	d		U	Unclassified
8 0		i	f	i	e	d		U	n	Unclassified
56.11		f	i	e	d		U	n	c	Unclassified
1		i	e	d		U	n	c	l	Unclassified
12.35		e	d		U	n	c	l	a	Unclassified
1 0		d		U	n	c	l	a	s	Unclassified
20.85			U	n	c	l	a	s	s	Unclassified
6		U	n	c	l	a	s	s	i	Unclassified
2458.58		n	c	l	a	s	s	i	f	Unclassified
7		c	l	a	s	s	i	f	i	
304.129		l	a	s	s	i	f	i	e	
57.423		a	s	s	i	f	i	e	d	
12.891		s	s	i	f	i	e	d		U
354.108		s	i	f	i	e	d		U	n
58.693		i	f	i	e	d		U	n	c
0		f	i	e	d		U	n	c	l
0		i	e	d		U	n	c	l	a
0		e	d		U	n	c	l	a	s
7.54		d		U	n	c	l	a	s	s
5 0			U	n	c	l	a	s	s	i
488.42		U	n	c	l	a	s	s	i	f
9 0		n	c	l	a	s	s	i	f	i
0		c	l	a	s	s	i	f	i	e
0		l	a	s	s	i	f	i	e	d
138.79		a	s	s	i	f	i	e	d	
4		s	s	i	f	i	e	d		U
7.482		s	i	f	i	e	d		U	n
0		i	f	i	e	d		U	n	c
21.516		f	i	e	d		U	n	c	l
0		i	e	d		U	n	c	l	a
0		e	d		U	n	c	l	a	s
0		d		U	n	c	l	a	s	s
185.04			U	n	c	l	a	s	s	i
4		U	n	c	l	a	s	s	i	f
305.32		n	c	l	a	s	s	i	f	i
6		c	l	a	s	s	i	f	i	e
314.22		l	a	s	s	i	f	i	e	d
3 0		a	s	s	i	f	i	e	d	
78.357		s	s	i	f	i	e	d		U
0		s	i	f	i	e	d		U	n
0		i	f	i	e	d		U	n	c
23.729		f	i	e	d		U	n	c	l
107.19		i	e	d		U	n	c	l	a
0		e	d		U	n	c	l	a	s
275.07		d		U	n	c	l	a	s	s
5 0			U	n	c	l	a	s	s	i
0		U	n	c	l	a	s	s	i	f
0		n	c	l	a	s	s	i	f	i
77.57		c	l	a	s	s	i	f	i	e
1 0		l	a	s	s	i	f	i	e	d
0		a	s	s	i	f	i	e	d	
10.68		s	s	i	f	i	e	d		U
36.24		s	i	f	i	e	d		U	n
2 0		i	f	i	e	d		U	n	c
0		f	i	e	d		U	n	c	l
13.12		i	e	d		U	n	c	l	a
79.52		e	d		U	n	c	l	a	s
5 0		d		U	n	c	l	a	s	s
0			U	n	c	l	a	s	s	i
296.65		U	n	c	l	a	s	s	i	f
5		n	c	l	a	s	s	i	f	i
281.85		c	l	a	s	s	i	f	i	e
3 0		a	s	s	i	f	i	e	d	
9.914		s	s	i	f	i	e	d		U
0		s	s	i	f	i	e	d		U
0		i	f	i	e	d		U	n	c
19.031		f	i	e	d		U	n	c	l
28.649		i	e	d		U	n	c	l	a
0		e	d		U	n	c	l	a	s
813.08		d		U	n	c	l	a	s	s
5 0			U	n	c	l	a	s	s	i
0		U	n	c	l	a	s	s	i	

slr2053	472.805	408.975	141.182	505.424	417.882	339.601	14.286	2.079	0	Unclassified
slr2122	481.886	311.475	272.945	357.506	270.24	152.413	0	10.451	136.951	Unclassified
slr1692	482.967	306.517	175.98	335.988	360.56	248.254	103.561	480.562	451.452	Unclassified
sl11020	488.355	381.794	94.097	331.224	331.721	233.527	6.877	550.472	0	Unclassified
ssr3307	503.395	270.743	39.542	454.926	516.071	88.321	0	0	0	Unclassified
sl10245	510.916	319.09	16.947	395.621	474.76	397.445	27.865	4.867	24.294	Unclassified
sl10721	511.639	447.115	50.17	475.433	425.232	320.173	348.833	180.674	767.182	Unclassified
slr0338	526.623	308.573	84.501	345.362	349.865	226.489	0	8.089	109.025	Unclassified
slr0756	528.031	434.092	133.652	515.021	502.013	665.941	121.714	259.823	14.739	Unclassified
slr1071	529.701	549.539	355.437	371.699	348.303	409.757	2601.703	676.119	6541.951	Unclassified
sl11192	537.797	224.659	43.749	311.091	344.552	48.858	0	0	0	Unclassified
sl10837	557.193	644.278	31.366	467.465	531.695	723.934	151.284	2.002	44.965	Unclassified
sl11995	597.192	329.259	29.848	389.115	429.849	244.45	0	3.81	42.789	Unclassified
sl11599	622.665	391.074	35.451	488.922	422.798	184.764	1632.186	61.087	16.941	Unclassified
sl11270	632.982	271.763	46.467	152.159	169.912	142.711	0	0	0	Unclassified
slr1077	635.211	454.737	55.788	495.744	468.064	178.011	0	0	11.425	Unclassified
slr1076	680.193	552.827	64.592	658.224	566.849	631.195	541.661	20.096	0	Unclassified
slr1485	686.611	663.708	422.987	614.065	586.948	472.392	718.695	35.43	0	Unclassified
slr0599	719.328	393.992	69.051	454.439	470.022	372.728	972.656	27.542	32.997	Unclassified
slr1024	740.493	559.199	115.3	509.045	551.33	321.918	0	2.759	2624.016	Unclassified
slr2046	785.829	520.968	233.752	554.703	564.47	343.401	171.284	463.455	242.894	Unclassified
sl11388	787.183	386.028	39.797	457.527	385.073	355.564	0	3.81	0	Unclassified
slr0977	903.098	546.374	300.634	705.121	633.894	671.495	102.527	4.264	175.586	Unclassified
slr0700	970.338	940.131	408.514	933.471	854.894	608.304	676.192	527.936	0	Unclassified
sl10501	1004.623	562.705	1411.613	611.148	676.622	475.107	356.113	61.087	1635.565	Unclassified
slr0224	1243.634	819.232	305.769	818.256	1073.94	861.131	865.642	2308.576	362.111	Unclassified
slr0757	1547.495	1062.54	87.291	1164.817	6	714.901	0	16.712	0	Unclassified
slr1494	1929.56	1587.86	1602.418	1987.839	1008.30	1593.232	654.166	6485.956	3521.413	Unclassified
slr2107	3905.61	2	458.061	2542.27	3	1773.418	1097.974	450.188	58.371	Unclassified
		2358.05			2025.56					
		9			3					
					2618.06					
					1					