

**Supplementary Table 8. MCODE analysis of acetylated proteins and their interacting proteins.**

Cluster 1				Rank	Score	Acetylated protein	nodes	Edges
				1	21.267	28	45	957
Proteins_ID	Synonym	Gene name	Description					
gi 148660457	mra:MRA_0691	rpsL	30S ribosomal protein S12					
gi 148661496	mra:MRA_1708	pyrG	UTP--ammonia ligase, CTP synthetase, CTP synthase					
gi 148662852	mra:MRA_3031	ilvC	Ketol-acid reductoisomerase, Alpha-keto-beta-hydroxylacil reductoisomerase, Acetohydroxy-acid isomeroreductase					
gi 148661097	mra:MRA_1317	atpG	F-ATPase gamma subunit, ATP synthase gamma chain, ATP synthase F1 sector gamma subunit					
gi 148662625	mra:MRA_2807	gpsI	Polyribonucleotide nucleotidyltransferase, Polynucleotide phosphorylase					
gi 148660441	mra:MRA_0676	rpoB	DNA-directed RNA polymerase subunit beta					
gi 148662842	mra:MRA_3021	gltX	Glutamyl-tRNA synthetase, Glutamate--tRNA ligase					
gi 148660116	mra:MRA_0359	dnaK	Heat shock protein 70, Heat shock 70 kDa protein, HSP70, Chaperone protein dnaK					
gi 148663323	mra:MRA_3499	rpsD	30S ribosomal protein S4					
gi 148663321	mra:MRA_3497	rplQ	50S ribosomal protein L17					
gi 148661098	mra:MRA_1318	atpD	F-ATPase subunit beta, ATP synthase subunit beta, ATP synthase F1 sector subunit beta					
gi 148660480	mra:MRA_0713	rpsS	30S ribosomal protein S19					
gi 148663444	mra:MRA_3619	cysS	Cysteinyl-tRNA synthetase 1, Cysteinyl-tRNA synthetase, Cysteine--tRNA ligase 1, Cysteine--tRNA ligase					
gi 148663325	mra:MRA_3501	rpsM	30S ribosomal protein S13					
gi 148663491	mra:MRA_3664	ppa	Pyrophosphate phospho-hydrolase, Inorganic pyrophosphatase					
gi 148660475	mra:MRA_0708	rpsJ	30S ribosomal protein S10					
gi 148662733	mra:MRA_2914	tsf	Elongation factor Ts					
gi 148661080	mra:MRA_1300	argS	Arginyl-tRNA synthetase, Arginine--tRNA ligase					
gi 148660415	mra:MRA_0652	rplA	50S ribosomal protein L1					
gi 148661092	mra:MRA_1312	atpB	F-ATPase subunit 6, ATP synthase subunit a, ATP synthase F0 sector subunit a					
gi 148661096	mra:MRA_1316	atpA	F-ATPase subunit alpha, ATP synthase subunit alpha, ATP synthase F1 sector subunit alpha					
gi 148660879	mra:MRA_1104	glyA1	Serine hydroxymethyltransferase 1, Serine hydroxymethyltransferase					
gi 148662726	mra:MRA_2907	fir	Ribosome-releasing factor, Ribosome-recycling factor					
gi 148660426	mra:MRA_0663	rplL	50S ribosomal protein L7/L12					
gi 148660799	mra:MRA_1025	prs	Ribose-phosphate pyrophosphokinase, Phosphoribosyl pyrophosphate synthetase					
gi 148660442	mra:MRA_0677	rpoC	Transcriptase subunit beta, RNA polymerase subunit beta, DNA-directed RNA polymerase subunit beta, DNA-directed RNA polymerase					
gi 148660485	mra:MRA_0718	rpsQ	30S ribosomal protein S17					
gi 148663322	mra:MRA_3498	rpoA	Transcriptase subunit alpha, RNA polymerase subunit alpha, DNA-directed RNA polymerase subunit alpha					
gi 148660459	mra:MRA_0693	fusA	Elongation factor G					
gi 148660460	mra:MRA_0694	tuf	Elongation factor Tu					
gi 148660482	mra:MRA_0715	rpsC	30S ribosomal protein S3					
gi 148660205	mra:MRA_0445	hsp65	molecular chaperone GroEL					
gi 148660496	mra:MRA_0729	rpsE	30S ribosomal protein S5					
gi 148663281	mra:MRA_3457	Rv3417c	groEL protein 2, groEL protein 1, Protein Cpn60-1, Protein Cpn60 2, 60 kDa chaperonin 2, 60 kDa chaperonin 1					
gi 148663307	mra:MRA_3483	rpsI	30S ribosomal protein S9					
gi 148660425	mra:MRA_0662	rplJ	50S ribosomal protein L10					
gi 148660491	mra:MRA_0724	rplE	50S ribosomal protein L5					
gi 148663324	mra:MRA_3500	rpsK	30S ribosomal protein S11					
gi 148662734	mra:MRA_2915	rpsB	30S ribosomal protein S2					
gi 148660476	mra:MRA_0709	rplC	50S ribosomal protein L3					
gi 148660458	mra:MRA_0692	rpsG	30S ribosomal protein S7					
gi 148662753	mra:MRA_2934	rpsP	30S ribosomal protein S16					

gi 148661425	mra:MRA_1640	rpsA	30S ribosomal protein S1					
gi 148660493	mra:MRA_0726	rpsH	30S ribosomal protein S8					
gi 148660414	mra:MRA_0651	rplK	50S ribosomal protein L11					

Cluster 2				Rank	Score	Acetylated protein	nodes	Edges
				2	4.077	9	13	53
Proteins_ID	Synonym	Gene name	Description					
gi 148660731	mra:MRA_0959	sucD	Succinyl-CoA synthetase subunit alpha, Succinyl-CoA ligase ADP-forming subunit alpha					
gi 148662295	mra:MRA_2486	clpP2	Endopeptidase Clp 2, ATP-dependent Clp protease proteolytic subunit 2, ATP-dependent Clp protease proteolytic subunit					
gi 148660884	mra:MRA_1109	fumC	Fumarate hydratase class II, Fumarate hydratase					
gi 148659953	mra:MRA_0197	ilvD	Dihydroxy-acid dehydratase					
gi 148663282	mra:MRA_3458	groS	groES protein, Protein Cpn10, BCG-A heat shock protein, 10 kDa chaperonin, 10 kDa antigen					
gi 148661094	mra:MRA_1314	atpF	F-type ATPase subunit b, ATPase subunit I, ATP synthase subunit b, ATP synthase F(0) sector subunit b					
gi 148661452	mra:MRA_1667	argF	Ornithine carbamoyltransferase					
gi 148661229	mra:MRA_1446	tpiA	Triosephosphate isomerase, Triose-phosphate isomerase					
gi 148660129	mra:MRA_0372	fba	Fructose-bisphosphate aldolase Fba, Fructose-bisphosphate aldolase, Fructose-1,6-bisphosphate aldolase					
gi 148662038	mra:MRA_2237	glnA1	Glutamine synthetase 1, Glutamine synthetase, Glutamate--ammonia ligase 1					
gi 148661183	mra:MRA_1401	metK	S-adenosylmethionine synthetase, Methionine adenosyltransferase, MAT, AdoMet synthetase					
gi 148660117	mra:MRA_0360	grpE	Protein grpE, HSP-70 cofactor					
gi 148660730	mra:MRA_0958	sucC	Succinyl-CoA synthetase subunit beta, Succinyl-CoA ligase ADP-forming subunit beta					

Cluster 3				Rank	Score	Acetylated protein	nodes	Edges
				3	3.364	4	11	37
Proteins_ID	Synonym	Gene name	Description					
gi 148663010	mra:MRA_3188	nuoK	NDH-1 subunit K, NADH-quinone oxidoreductase subunit K, NADH dehydrogenase I subunit K					
gi 148663011	mra:MRA_3189	nuoL	NDH-1 subunit L, NADH-quinone oxidoreductase subunit L, NADH dehydrogenase subunit L, NADH dehydrogenase I subunit L					
gi 148663001	mra:MRA_3179	nuoB	NDH-1 subunit B, NADH-quinone oxidoreductase subunit B, NADH dehydrogenase I subunit B					
gi 148662032	mra:MRA_2231	dlaT	Dihydrolipoamide acyltransferase DlaT					
gi 148661974	mra:MRA_2173	murE	UDP-N-acetylmuramyl-tripeptide synthetase, UDP-MurNAc-tripeptide synthetase, Meso-diaminopimelate-adding enzyme, Meso-A2pm-adding enzyme					
gi 148663012	mra:MRA_3190	nuoM	NDH-1 subunit M, NADH-quinone oxidoreductase subunit M, NADH dehydrogenase subunit M, NADH dehydrogenase I subunit M					
gi 148663013	mra:MRA_3191	nuoN	NDH-1 subunit N, NADH-quinone oxidoreductase subunit N, NADH dehydrogenase subunit N, NADH dehydrogenase I subunit N					
gi 148662331	mra:MRA_2521	pdhC	branched-chain alpha-keto acid dehydrogenase subunit E2					
gi 148663002	mra:MRA_3180	nuoC	NDH-1 subunit C, NADH-quinone oxidoreductase subunit C, NADH dehydrogenase I subunit C					
gi 148662062	mra:MRA_2261	aceE	Pyruvate dehydrogenase subunit E1, Pyruvate dehydrogenase E1 component					
gi 148663007	mra:MRA_3185	nuoH	NDH-1 subunit H, NADH-quinone oxidoreductase subunit H, NADH dehydrogenase I subunit H					

Cluster 4				Rank	Score	Acetylated protein	nodes	Edges
				4	2.444	6	9	22
Proteins_ID	Synonym	Gene name	Description					
gi 148662332	mra:MRA_2522	pdhB	2-oxoisovalerate dehydrogenase E1 component subunit beta					
gi 148662854	mra:MRA_3033	ilvB	Acetolactate synthase, Acetohydroxy-acid synthase, ALS					

gi 148660256	mra:MRA_0496	gpmA	phosphoglyceromutase				
gi 148662065	mra:MRA_2264	acpM	Meromycolate extension acyl carrier protein AcpM, Meromycolate extension acyl carrier protein				
gi 148661027	mra:MRA_1249	mdh	Malate dehydrogenase				
gi 148661268	mra:MRA_1485	acn	Aconitate hydratase				
gi 148660674	mra:MRA_0904	gltA2	Citrate synthase 1, Citrate synthase				
gi 148660228	mra:MRA_0468	lpd	Dihydrolipoyl dehydrogenase, Dihydrolipoamide dehydrogenase				
gi 148662292	mra:MRA_2483	clpX	ATP-dependent protease ATP-binding subunit ClpX				

<b>Cluster 5</b>			
<b>Proteins_ID</b>	<b>Synonym</b>	<b>Gene name</b>	<b>Description</b>
gi 148661845	mra:MRA_2046	acr	antigen Hsp20
gi 148663282	mra:MRA_3458	gros	co-chaperonin GroES
gi 148660116	mra:MRA_0359	dnak	molecular chaperone DnaK
gi 148661530	mra:MRA_1742	MT1773	hypothetical protein
gi 148662292	mra:MRA_2483	clpX	ATP-dependent protease ATP-binding subunit ClpX
gi 148660117	mra:MRA_0360	grpE	heat shock protein GrpE
gi 148662295	mra:MRA_2486	clpP2	ATP-dependent Clp protease proteolytic subunit
gi 148663007	mra:MRA_3185	nuoH	NADH dehydrogenase subunit H
gi 148662987	mra:MRA_3165	devR	two component transcriptional regulatory protein DevR
gi 148660674	mra:MRA_0904	gltA2	type II citrate synthase
gi 148660205	mra:MRA_0445	hsp65	molecular chaperone GroEL
gi 148663539	mra:MRA_3711	MT3777	Crp/Fnr family transcriptional regulator
gi 148661425	mra:MRA_1640	rpsA	30S ribosomal protein S1
gi 148661431	mra:MRA_1646	TB15.3	hypothetical protein
gi 148663281	mra:MRA_3457	Rv3417c	molecular chaperone GroEL
gi 148661643	mra:MRA_1848	glcB	malate synthase G
gi 148660118	mra:MRA_0361	dnaJ1	molecular chaperone DnaJ