

Supplemental Table S3. Identification of Significantly Differential Proteins of
***Escherichia coli* K12 BW25113 in response to chlortetracycline using iTRAQ**

labeling Analysis				
Accession	Name	%Cov(95)	Peptides	With/without chlortetracycline
CSPA_ECOLI	Cold shock protein	72.9	7	15.42
CARB_ECOLI	Carbamoyl-phosphate synthase large chain	2.8	2	14.59
DEAD_ECOLI	Cold-shock DEAD box protein A	15.3	10	12.71
RS6_ECOLI	30S ribosomal protein S6	72.6	50	11.07
RS16_ECOLI	30S ribosomal protein S16	58.5	12	10
RL31_ECOLI	50S ribosomal protein L31	28.6	3	7.24
IF3_ECOLI	Translation initiation factor IF-3	49.4	9	6.73
RL25_ECOLI	50S ribosomal protein L25	67	11	6.55
RS5_ECOLI	30S ribosomal protein S5	76.1	22	6.49
RL3_ECOLI	50S ribosomal protein L3	57.4	18	5.7
RL2_ECOLI	50S ribosomal protein L2	55.3	41	5.5
RL17_ECOLI	50S ribosomal protein L17	44.9	17	5.5
RL21_ECOLI	50S ribosomal protein L21	43.7	9	5.25
IF2_ECOLI	Translation initiation factor IF-2	22.7	22	5.15
RL10_ECOLI	50S ribosomal protein L10	66.7	19	5.06
RPOZ_ECOLI	DNA-directed RNA polymerase subunit	78	13	5.01

omega				
RL1_ECOLI	50S ribosomal protein L1	68.4	34	4.97
RS2_ECOLI	30S ribosomal protein S2	67.6	57	4.92
RS11_ECOLI	30S ribosomal protein S11	48.8	22	4.83
RS9_ECOLI	30S ribosomal protein S9	56.9	16	4.83
RL30_ECOLI	50S ribosomal protein L30	45.8	6	4.79
RS19_ECOLI	30S ribosomal protein S19	69.6	9	4.7
RL35_ECOLI	50S ribosomal protein L35	27.7	3	4.66
RL19_ECOLI	50S ribosomal protein L19	71.3	14	4.66
ISCR_ECOLI	HTH-type transcriptional regulator	22.2	2	4.66
RL5_ECOLI	50S ribosomal protein L5	67.6	34	4.61
RL29_ECOLI	50S ribosomal protein L29	55.6	11	4.57
RECA_ECOLI	Protein RecA	33.1	13	4.57
RS7_ECOLI	30S ribosomal protein S7	59.2	21	4.45
RS18_ECOLI	30S ribosomal protein S18	48	7	4.37
RL4_ECOLI	50S ribosomal protein L4	51.2	27	4.37
RS1_ECOLI	30S ribosomal protein S1	50.4	55	4.25
RHLE_ECOLI	ATP-dependent RNA helicase	4.8	2	4.25
RL27_ECOLI	50S ribosomal protein L27	45.9	10	4.21
RS17_ECOLI	30S ribosomal protein S17	23.8	4	4.21
RL14_ECOLI	50S ribosomal protein L14	59.4	32	4.21
RS10_ECOLI	30S ribosomal protein S10	48.5	9	4.21

RL24_ECOLI	50S ribosomal protein L24	51	8	4.13
RS20_ECOLI	30S ribosomal protein S20	48.3	15	4.13
RL11_ECOLI	50S ribosomal protein L11	52.1	16	4.09
MURA_ECOLI	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	5.5	4	4.06
RL13_ECOLI	50S ribosomal protein L13	59.1	15	3.91
RS13_ECOLI	30S ribosomal protein S13	66.9	19	3.91
DHAM_ECOLI	PTS-dependent dihydroxyacetone kinase, phosphotransferase subunit	21.6	13	3.87
RL28_ECOLI	50S ribosomal protein L28	59	8	3.84
EFG_ECOLI	Elongation factor G	53.7	80	3.8
SRMB_ECOLI	ATP-dependent RNA helicase	5	2	3.66
RL9_ECOLI	50S ribosomal protein L9	69.8	21	3.66
RL6_ECOLI	50S ribosomal protein L6	58.2	27	3.6
RS12_ECOLI	30S ribosomal protein S12	29.8	6	3.56
RS4_ECOLI	30S ribosomal protein S4	50	34	3.5
RL7_ECOLI	50S ribosomal protein L7/L12	68.6	17	3.5
AROK_ECOLI	Shikimate kinase 1	20.8	5	3.37
RS15_ECOLI	30S ribosomal protein S15	33.7	6	3.37
RL23_ECOLI	50S ribosomal protein L23	38	5	3.37
RS3_ECOLI	30S ribosomal protein S3	50.6	19	3.25
RL22_ECOLI	50S ribosomal protein L22	43.6	10	3.13

RL16_ECOLI	50S ribosomal protein L16	53.7	14	3.05
RS8_ECOLI	30S ribosomal protein S8	52.3	9	3.05
K6PF1_ECOLI	6-phosphofructokinase isozyme 1	8.7	2	3.05
FABF_ECOLI	3-oxoacyl-[acyl-carrier-protein] synthase 2	12.3	3	3.02
RPOB_ECOLI	DNA-directed RNA polymerase subunit beta	41.9	57	2.99
RS21_ECOLI	30S ribosomal protein S21	42.3	5	2.96
YFIF_ECOLI	Uncharacterized tRNA/rRNA methyltransferase YfiF	10.1	3	2.96
FIS_ECOLI	DNA-binding protein fis	34.7	5	2.83
RL20_ECOLI	50S ribosomal protein L20	46.6	12	2.75
FABZ_ECOLI	(3R)-hydroxymyristoyl-[acyl-carrier-protein] dehydratase	33.8	7	2.73
PURR_ECOLI	HTH-type transcriptional repressor	7.3	2	2.68
NUSA_ECOLI	Transcription elongation protein	35.4	17	2.68
YGGE_ECOLI	Uncharacterized protein yggE	7.3	4	2.68
RL18_ECOLI	50S ribosomal protein L18	72.6	10	2.68
NLPB_ECOLI	Lipoprotein 34	24.4	5	2.63
HTPG_ECOLI	Chaperone protein htpG	20.2	15	2.61
RPOA_ECOLI	DNA-directed RNA polymerase subunit alpha	37.4	18	2.54
MAO1_ECOLI	NAD-dependent malic enzyme	8.7	5	2.54

ISCS_ECOLI	Cysteine desulfurase	31.7	11	2.51
SECG_ECOLI	Protein-export membrane protein	27.3	3	2.47
TYPA_ECOLI	GTP-binding protein typA/BipA	18	8	2.44
FER_ECOLI	2Fe-2S ferredoxin	54.9	4	2.42
RHO_ECOLI	Transcription termination factor Rho	33.9	14	2.42
RL15_ECOLI	50S ribosomal protein L15	48.6	11	2.4
KTHY_ECOLI	Thymidylate kinase	6.1	2	2.38
CLPX_ECOLI	ATP-dependent Clp protease ATP-binding subunit ClpX	17.5	8	2.38
ISPF_ECOLI	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase	20.1	2	2.36
RPOD_ECOLI	RNA polymerase sigma factor rpoD	8.5	5	2.25
TOP1_ECOLI	DNA topoisomerase 1	4.9	4	2.25
PCNB_ECOLI	Poly(A) polymerase	6.7	3	2.23
FABH_ECOLI	3-oxoacyl-[acyl-carrier-protein] synthase 3	18.3	4	2.21
RF3_ECOLI	Peptide chain release factor 3	5.3	3	2.15
AHPF_ECOLI	Alkyl hydroperoxide reductase subunit F	7.3	3	2.13
RDGB_ECOLI	dITP/XTP pyrophosphatase	17.8	3	2.13
LEPA_ECOLI	Elongation factor 4	10.4	5	2.13
CSPE_ECOLI	Cold shock-like protein CspE	95.6	9	2.11
HSLU_ECOLI	ATP-dependent protease ATPase subunit HslU	21.7	16	2.09

HNS_ECOLI	DNA-binding protein H-NS	70.1	24	2.09
TRMB_ECOLI	tRNA (guanine-N(7)-)-methyltransferase	5	2	2.09
HINT_ECOLI	HIT-like protein hinT	53.8	5	2.07
SECD_ECOLI	Protein translocase subunit SecD	10.1	6	2.07
RBFA_ECOLI	Ribosome-binding factor A	13.5	3	2.05
SYT_ECOLI	Tyrosyl-tRNA synthetase	16	5	2.05
NARL_ECOLI	Nitrate/nitrite response regulator protein	16.7	3	2.03
FABG_ECOLI	3-oxoacyl-[acyl-carrier-protein] reductase	37.3	11	2.03
P5CR_ECOLI	Pyrroline-5-carboxylate reductase	13	3	2.01
WZZB_ECOLI	Chain length determinant protein	8.6	2	2.01
RLMN_ECOLI	Ribosomal RNA large subunit methyltransferase N	12	4	2
MREB_ECOLI	Rod shape-determining protein	32	11	1.98
EFTS_ECOLI	Elongation factor Ts	65.7	32	1.98
NUSG_ECOLI	Transcription antitermination protein	50.8	11	1.94
PROQ_ECOLI	ProP effector	20.3	7	1.92
TRXB_ECOLI	Thioredoxin reductase	19.3	6	1.92
RRF_ECOLI	Ribosome-recycling factor	49.7	14	1.85
DCEA_ECOLI	Glutamate decarboxylase alpha	51.3	49	1.84
MASY_ECOLI	Malate synthase A	35.1	27	1.84
HSLO_ECOLI	33 kDa chaperonin	12.3	5	1.84
RLME_ECOLI	Ribosomal RNA large subunit	10.1	2	1.82

	methyltransferase E			
RPOC_ECOLI	DNA-directed RNA polymerase subunit	37.5	49	1.82
	beta'			
SRP54_ECOLI	Signal recognition particle protein	11	5	1.82
LON_ECOLI	Lon protease	15.8	18	1.8
RS14_ECOLI	30S ribosomal protein S14	26.7	7	1.77
HSCA_ECOLI	Chaperone protein hscA	5.4	2	1.75
GLRX4_ECOLI	Glutaredoxin-4	29.6	6	1.75
ERPA_ECOLI	Iron-sulfur cluster insertion protein	25.4	2	1.69
DNAJ_ECOLI	Chaperone protein	4.5	2	1.66
YEBC_ECOLI	UPF0082 protein	7.7	3	1.64
HPRT_ECOLI	Hypoxanthine phosphoribosyltransferase	27	3	1.64
SYA_ECOLI	Alanyl-tRNA synthetase	17.4	20	1.64
EFTU2_ECOLI	Elongation factor Tu 2	80.2	138	1.63
RIMO_ECOLI	Ribosomal protein S12	8.2	2	1.61
	methylthiotransferase RimO			
TSX_ECOLI	Nucleoside-specific channel-forming	10.9	2	1.6
	protein tsx			
YIBN_ECOLI	Uncharacterized protein yibN	17.5	2	1.6
ACEA_ECOLI	Isocitrate lyase	55.1	43	1.6
YAJQ_ECOLI	UPF0234 protein yajQ	44.2	7	1.6
PPID_ECOLI	Peptidyl-prolyl cis-trans isomerase D	7.7	3	1.57

MUKB_ECOLI	Chromosome partition protein MukB	3.4	5	1.57
OSMY_ECOLI	Osmotically-inducible protein Y	55.7	14	1.56
FTSH_ECOLI	ATP-dependent zinc metalloprotease FtsH	22.1	12	1.54
UUP_ECOLI	ABC transporter ATP-binding protein uup	4.6	2	1.53
YIFE_ECOLI	UPF0438 protein yifE	24.1	3	1.51
SYE_ECOLI	Glutamyl-tRNA synthetase	19.8	11	1.51
YHES_ECOLI	Uncharacterized ABC transporter ATP-binding protein YheS	3	2	1.5
YQCC_ECOLI	Uncharacterized protein yqcC	10.1	2	1.47
RF2_ECOLI	Peptide chain release factor 2	12.9	6	1.47
TLDD_ECOLI	Protein tldD	2.9	2	1.46
MLAD_ECOLI	Probable phospholipid ABC transporter-binding protein mlaD	19.7	6	1.46
PNP_ECOLI	Polyribonucleotide nucleotidyltransferase	24.3	30	1.46
SPEA_ECOLI	Biosynthetic arginine decarboxylase	2.3	3	1.46
YDFG_ECOLI	NADP-dependent 3-hydroxy acid dehydrogenase YdfG	21.8	5	1.46
NUOCD_ECOLI	NADH-quinone oxidoreductase subunit C/D	17.9	10	0.67
PYRG_ECOLI	CTP synthase	19.8	13	0.67
GLMS_ECOLI	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing]	4.1	2	0.66

FRDA_ECOLI	Fumarate reductase flavoprotein subunit	17.1	16	0.66
YFBU_ECOLI	UPF0304 protein yfbU	6.1	2	0.66
ALDA_ECOLI	Lactaldehyde dehydrogenase	31.3	15	0.65
FTNA_ECOLI	Ferritin-1	27.9	4	0.65
FDOG_ECOLI	Formate dehydrogenase-O major subunit	6.8	5	0.65
DACA_ECOLI	D-alanyl-D-alanine carboxypeptidase dacA	9.4	4	0.65
YGIW_ECOLI	Protein ygiW	57.7	9	0.65
GPMA_ECOLI	2,3-bisphosphoglycerate-dependent phosphoglycerate mutase	33.2	11	0.65
TDCE_ECOLI	Keto-acid formate acetyltransferase	11.3	10	0.64
KPYK1_ECOLI	Pyruvate kinase I	25.1	10	0.64
PTW3C_ECOLI	PTS system N-acetylglucosamine-specific EIICBA component	7.1	3	0.64
YOAB_ECOLI	RutC family protein yoaB	12.3	2	0.64
CYSK_ECOLI	Cysteine synthase A	25.7	6	0.63
YBAY_ECOLI	Uncharacterized lipoprotein ybaY	10.5	3	0.63
ACRA_ECOLI	Acriflavine resistance protein A	18.1	7	0.63
YFCZ_ECOLI	UPF0381 protein yfcZ	27.7	2	0.63
YAEH_ECOLI	UPF0325 protein yaeH	42.2	6	0.62
NDK_ECOLI	Nucleoside diphosphate kinase	35	6	0.61
MDTE_ECOLI	Multidrug resistance protein MdtE	10.1	2	0.61
HCHA_ECOLI	Chaperone protein hchA	22.6	8	0.61

YDGH_ECOLI	Protein	29	7	0.61
YLIJ_ECOLI	Uncharacterized GST-like protein	7.2	2	0.61
OPDA_ECOLI	Oligopeptidase A	14	9	0.6
PHOP_ECOLI	Transcriptional regulatory protein	10.3	2	0.6
AAT_ECOLI	Aspartate aminotransferase	11.6	5	0.59
DCEB_ECOLI	Glutamate decarboxylase beta	51.3	49	0.59
LPP_ECOLI	Major outer membrane lipoprotein	48.7	5	0.58
YCFP_ECOLI	UPF0227 protein ycfP	11.1	3	0.58
PEPD_ECOLI	Cytosol non-specific dipeptidase	20	9	0.57
HEMY_ECOLI	Protein hemY	7.8	3	0.57
SYP_ECOLI	Prolyl-tRNA synthetase	35.1	17	0.57
PTNAB_ECOLI	PTS system mannose-specific EIIB component	21.7	7	0.56
OSMC_ECOLI	Peroxiredoxin osmC	55.9	9	0.56
ALF1_ECOLI	Fructose-bisphosphate aldolase class 1	21.4	10	0.56
IMDH_ECOLI	Inosine-5'-monophosphate dehydrogenase	34.2	16	0.56
MAO2_ECOLI	NADP-dependent malic enzyme	5.5	3	0.55
SYL_ECOLI	Leucyl-tRNA synthetase	14.1	11	0.55
ADD_ECOLI	Adenosine deaminase	24.9	4	0.55
GABT_ECOLI	4-aminobutyrate aminotransferase GabT	23.5	7	0.54
MOAB_ECOLI	Molybdenum cofactor biosynthesis protein	20.6	4	0.54

B				
CRP_ECOLI	Catabolite gene activator	27.1	6	0.54
LUXS_ECOLI	S-ribosylhomocysteine lyase	25.2	4	0.53
DLDH_ECOLI	Dihydrolipoyl dehydrogenase	48.9	31	0.53
YECA_ECOLI	Uncharacterized protein yecA	6.8	2	0.53
TKT1_ECOLI	Transketolase 1	24	15	0.52
ASSY_ECOLI	Argininosuccinate synthase	7.4	2	0.52
GALU_ECOLI	UTP--glucose-1-phosphate uridylyltransferase	20.2	6	0.52
HFLK_ECOLI	Modulator of FtsH protease HflK	17.2	8	0.52
CSPD_ECOLI	Cold shock-like protein CspD	18.9	2	0.52
CH60_ECOLI	60 kDa chaperonin	53.8	56	0.51
PHSM_ECOLI	Maltodextrin phosphorylase	6.9	5	0.51
SYV_ECOLI	Valyl-tRNA synthetase	13.6	12	0.51
FTSY_ECOLI	Cell division protein FtsY	12.5	4	0.51
IHFA_ECOLI	Integration host factor subunit alpha	51.5	7	0.5
SYK2_ECOLI	Lysyl-tRNA synthetase, heat inducible	46.9	25	0.49
ODP1_ECOLI	Pyruvate dehydrogenase E1 component	44.5	63	0.49
GHRB_ECOLI	Glyoxylate/hydroxypyruvate reductase B	7.1	2	0.49
YGAU_ECOLI	Uncharacterized protein ygaU	35.6	7	0.49
NUOI_ECOLI	NADH-quinone oxidoreductase subunit I	8.3	2	0.49
YCCJ_ECOLI	Uncharacterized protein yccJ	36	3	0.48

PUTA_ECOLI	Bifunctional protein putA	2.3	2	0.47
BTUE_ECOLI	Vitamin B12 transport periplasmic protein BtuE	18	3	0.47
FKBB_ECOLI	FKBP-type 22 kDa peptidyl-prolyl cis-trans isomerase	30.1	9	0.47
BFR_ECOLI	Bacterioferritin	51.9	17	0.47
YEFG_ECOLI	Uncharacterized protein yefG	6.7	2	0.47
YBJP_ECOLI	Uncharacterized lipoprotein ybjP	18.1	2	0.47
DEOD_ECOLI	Purine nucleoside phosphorylase deoD-type	26.4	9	0.45
YEAG_ECOLI	Uncharacterized protein yeaG	12.9	8	0.45
GYRB_ECOLI	DNA gyrase subunit B	12.1	12	0.45
RAIA_ECOLI	Ribosome-associated inhibitor A	28.3	4	0.44
DGAL_ECOLI	D-galactose-binding periplasmic protein	34.6	10	0.44
SODF_ECOLI	Superoxide dismutase [Fe]	19.7	5	0.44
SUCD_ECOLI	Succinyl-CoA ligase [ADP-forming] subunit alpha	19.7	5	0.44
KBL_ECOLI	2-amino-3-ketobutyrate coenzyme A ligase	14.8	8	0.43
GATY_ECOLI	D-tagatose-1,6-bisphosphate aldolase subunit GatY	37.7	9	0.42
MENB_ECOLI	1,4-Dihydroxy-2-naphthoyl-CoA synthase	11.2	3	0.42
NAPA_ECOLI	Periplasmic nitrate reductase	3.9	4	0.42

ECNB_ECOLI	Entericidin B	39.6	2	0.42
SSB_ECOLI	Single-stranded DNA-binding protein	35.4	6	0.42
YBEL_ECOLI	Uncharacterized protein ybeL	13.8	2	0.41
DEGP_ECOLI	Periplasmic serine endoprotease	8.2	6	0.41
GLMM_ECOLI	Phosphoglucosamine mutase	11	5	0.41
TPX_ECOLI	Thiol peroxidase	48.2	17	0.41
ASPA_ECOLI	Aspartate ammonia-lyase	32	17	0.4
DPO1_ECOLI	DNA polymerase I	9.6	6	0.39
SUCC_ECOLI	Succinyl-CoA ligase [ADP-forming] subunit beta	39.4	15	0.39
USPA_ECOLI	Universal stress protein A	22.9	3	0.39
NARH_ECOLI	Respiratory nitrate reductase 1 beta chain	12.5	5	0.39
DHAS_ECOLI	Aspartate-semialdehyde dehydrogenase	9	2	0.39
FDNG_ECOLI	Formate dehydrogenase, nitrate-inducible, major subunit	5	3	0.38
ATPB_ECOLI	ATP synthase subunit beta	65.6	41	0.38
BGLX_ECOLI	Periplasmic beta-glucosidase	1.6	2	0.37
ATPG_ECOLI	ATP synthase gamma chain	18.1	4	0.37
FTSZ_ECOLI	Cell division protein FtsZ	44.7	18	0.36
PT1_ECOLI	Phosphoenolpyruvate-protein phosphotransferase	25.7	23	0.35
CAPP_ECOLI	Phosphoenolpyruvate carboxylase	11.6	9	0.35

YCFD_ECOLI	Uncharacterized protein ycfD	6.4	2	0.35
METQ_ECOLI	D-methionine-binding lipoprotein	12.2	2	0.35
USPF_ECOLI	Universal stress protein F	11.1	2	0.34
G3P1_ECOLI	Glyceraldehyde-3-phosphate dehydrogenase A	57.7	30	0.34
GLRX3_ECOLI	Glutaredoxin-3	57.8	4	0.34
PAL_ECOLI	Peptidoglycan-associated lipoprotein	48.6	11	0.34
HFLC_ECOLI	Modulator of FtsH protease HflC	25.5	9	0.34
SURA_ECOLI	Chaperone surA	19.4	9	0.34
ACON2_ECOLI	Aconitate hydratase 2	41.2	38	0.34
AHPC_ECOLI	Alkyl hydroperoxide reductase subunit C	54.5	14	0.33
SYGB_ECOLI	Glycyl-tRNA synthetase beta subunit	24.2	19	0.33
YAH0_ECOLI	Uncharacterized protein YahO	26.4	2	0.33
DEOB_ECOLI	Phosphopentomutase	24.8	10	0.33
GUAA_ECOLI	GMP synthase [glutamine-hydrolyzing]	17.7	14	0.33
YEAD_ECOLI	Putative glucose-6-phosphate 1-epimerase	24.8	5	0.32
KATG_ECOLI	Catalase-peroxidase	29.3	29	0.31
CISY_ECOLI	Citrate synthase	19.4	9	0.3
AMPA_ECOLI	Cytosol aminopeptidase	13.3	4	0.3
OMPX_ECOLI	Outer membrane protein X	33.3	12	0.3
RPIA_ECOLI	Ribose-5-phosphate isomerase A	23.3	6	0.29

ODO1_ECOLI	2-oxoglutarate dehydrogenase E1 component	15.2	16	0.29
RBSB_ECOLI	D-ribose-binding periplasmic protein	42.6	11	0.28
GATZ_ECOLI	D-tagatose-1,6-bisphosphate aldolase subunit gatZ	22.1	12	0.28
6PGD_ECOLI	6-phosphogluconate dehydrogenase, decarboxylating	58.6	27	0.28
CSPC_ECOLI	Cold shock-like protein CspC	95.6	12	0.28
YQJD_ECOLI	Uncharacterized protein yqjD	30.7	3	0.28
GLPK_ECOLI	Glycerol kinase	45.4	36	0.27
IDH_ECOLI	Isocitrate dehydrogenase [NADP]	56	28	0.27
GLYA_ECOLI	Serine hydroxymethyltransferase	18	11	0.27
G6PD_ECOLI	Glucose-6-phosphate 1-dehydrogenase	10.8	5	0.27
RIR1_ECOLI	Ribonucleoside-diphosphate reductase 1 subunit alpha	11.6	7	0.27
NUOF_ECOLI	NADH-quinone oxidoreductase subunit F	13.5	6	0.27
YHCB_ECOLI	Putative cytochrome d ubiquinol oxidase subunit 3	34.1	7	0.27
GABD_ECOLI	Succinate-semialdehyde dehydrogenase [NADP+] GabD	15.6	5	0.27
PCKA_ECOLI	Phosphoenolpyruvate carboxykinase [ATP]	25.4	15	0.26

GATD_ECOLI	Galactitol-1-phosphate 5-dehydrogenase	15.3	4	0.26
KPYK2_ECOLI	Pyruvate kinase II	18.5	8	0.26
GLGA_ECOLI	Glycogen synthase	10.1	4	0.26
DKGA_ECOLI	2,5-diketo-D-gluconic acid reductase A	21.1	6	0.26
PPSA_ECOLI	Phosphoenolpyruvate synthase	24.4	21	0.26
NARG_ECOLI	Respiratory nitrate reductase 1 alpha chain	16.6	20	0.25
GALE_ECOLI	UDP-glucose 4-epimerase	8.9	2	0.25
UDP_ECOLI	Uridine phosphorylase	17.8	5	0.25
GLNA_ECOLI	Glutamine synthetase	21.8	7	0.24
FRDB_ECOLI	Fumarate reductase iron-sulfur subunit	15.2	5	0.24
CYDA_ECOLI	Cytochrome d ubiquinol oxidase subunit 1	9.8	5	0.22
ADHE_ECOLI	Aldehyde-alcohol dehydrogenase	27.6	19	0.22
DSBA_ECOLI	Thiol:disulfide interchange protein	8.2	2	0.21
TALB_ECOLI	Transaldolase B	71.3	29	0.21
YHDH_ECOLI	Putative quinone oxidoreductase	13	5	0.2
YIDA_ECOLI	Phosphatase YidA	12.6	2	0.19
GADC_ECOLI	Probable glutamate/gamma-aminobutyrate antiporter	6.7	7	0.19
K6PF2_ECOLI	6-phosphofructokinase isozyme 2	10	2	0.19
ALF_ECOLI	Fructose-bisphosphate aldolase class 2	41.2	20	0.18
GCSP_ECOLI	Glycine dehydrogenase [decarboxylating]	9.5	7	0.18
SERC_ECOLI	Phosphoserine aminotransferase	7.2	2	0.18

YTFB_ECOLI	Uncharacterized protein ytfB	9	2	0.18
DHSB_ECOLI	Succinate dehydrogenase iron-sulfur subunit	27.3	8	0.18
AMPN_ECOLI	Aminopeptidase N	6.2	7	0.18
OMPF_ECOLI	Outer membrane protein F	21	16	0.17
GCST_ECOLI	Aminomethyltransferase	12.6	4	0.17
SLP_ECOLI	Outer membrane protein slp	28.7	4	0.16
YIEF_ECOLI	Uncharacterized protein yieF	23.4	4	0.16
PGK_ECOLI	Phosphoglycerate kinase	61	33	0.15
PTKB_ECOLI	Galactitol-specific phosphotransferase enzyme IIB component	43.6	3	0.14
DBHA_ECOLI	DNA-binding protein HU-alpha	77.8	12	0.14
PGM_ECOLI	Phosphoglucomutase	9	3	0.14
FUMA_ECOLI	Fumarate hydratase class I, aerobic	14.4	9	0.13
ODO2_ECOLI	Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex	25.4	22	0.13
MSYB_ECOLI	Acidic protein msyB	54	8	0.12
WRBA_ECOLI	Flavoprotein wrbA	48	19	0.11
PTGA_ECOLI	Glucose-specific phosphotransferase enzyme IIA component	53.3	12	0.1
6PGL_ECOLI	6-phosphogluconolactonase	15.4	5	0.1

ASPG2_ECOLI	L-asparaginase 2	15.2	6	<i>0.09</i>
ELBB_ECOLI	Enhancing lycopene biosynthesis protein 2	15.7	2	<i>0.09</i>
MALE_ECOLI	Maltose-binding periplasmic protein	27.5	11	<i>0.08</i>
ENO_ECOLI	Enolase	64.3	27	<i>0.08</i>
PFLB_ECOLI	Formate acetyltransferase 1	45.7	51	<i>0.07</i>
OMPC_ECOLI	Outer membrane protein C	68.9	59	<i>0.07</i>
MDH_ECOLI	Malate dehydrogenase	53.2	27	<i>0.05</i>
OMPA_ECOLI	Outer membrane protein A	67	63	<i>0.05</i>
GRCA_ECOLI	Autonomous glycyl radical cofactor	78.7	21	<i>0.04</i>
TNAA_ECOLI	Tryptophanase	72.2	135	<i>0.03</i>
RPOS_ECOLI	RNA polymerase sigma factor rpoS	10.6	2	<i>0.01</i>
TRUD_ECOLI	tRNA pseudouridine synthase D	7.5	2	<i>0.01</i>

Note: The altered proteins were highlighted by italic and bold font