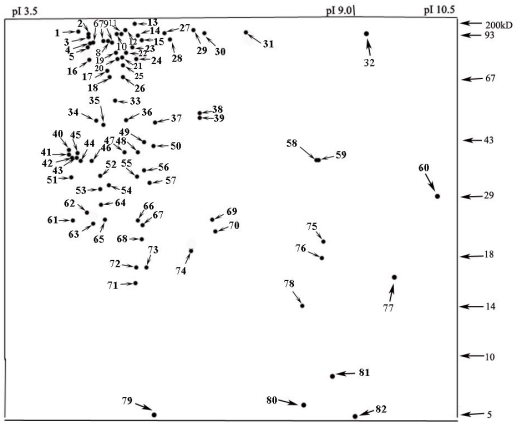
Supplementary Fig. 1



01.YfcU 02.HtrE 03.YejO 04.OstA 05.YhcD 06.YaeT 07.YbgQ 08.YqiG 09.YraJ 10.YcbS
11.SfmD 12.AG43 13.YpjA 14.AfaC 15.YehB 16.FhuE 17.CirA 18.BtuB 19.FaeD 20.FhuA
21.FepA 22.FecA 23.FanD 24.YbiL 25.YncD 26.GspD 27.FimD 28.PapC 29.NfrA 30.FocD
31.AggC 32.CssD 33.YieC 34.LamB 35.FadL 36.TolC 37.CusC 38.MdtQ 39.MdtP 40.YedS
41.OmpN 42.OmpC 43.NmpC 44.OmpF 45.YhgL 46.PhoE 47.YccZ 48.Wza 49.YbhC 50.HofQ
51.OmpG 52.NlpB 53.Tsx 54.PldA 55. OmpT 56.OmpA 57.OmpP 58.MltA 59.MltB 60.PgpB
61.YiaT 62.VacJ 63.CutF 64.MetQ 65.MipA 66.YfiO 67.TraK 68.OmpW 69.NanC 70.FlgH
71.OmpX 72.YbjP 73.Pal 74.Slp 75.LolB 76.Blc 77.HlpA 78.SlyB 79.RzoR 80.Lpp
81.YqhH 82.RzoD

Supplementary Fig. 1 Theoretical map of 2-D gel separation of the *E. coli* OMP sub-proteome based on predicted p*I* and molecular masses.

Supplementary Table 1. Summary of proteins in sarcosin-insoluble and sarcosine-soluble fractions identified by MALDI-TOF/MS

Spot no.	Accession name	Swiss-prot #	Description	MW (kD)	Mascot score	subcellular localization	GRAVY
Sarcosine-insoluble fraction							
A1	LAMB_ECOLI	P02943	LamB	47	59	OM	-0.515
A2	CLPB_ECOLI	P63284	Chaperone clpB	96	72	Cytoplasmic	-0.357
A3	FECA_ECOLI	P13036	Iron dicitrate transport system receptor precursor	85	80	OM	-0.516
A4	OMPA_ECOLI	P0A910	OmpA precursor	37	63	OM	-0.338
A5	OMPA_ECOLI	P0A910	OmpA precursor	37	75	OM	-0.338
A6	PUR9_ECO57	Q8X611	hypothetical protein ECs4929	57	89	Cytoplasmic	-0.139
A7	Q8X592_ECO57	Q8X592	hypothetical protein ECs2491	28	62	Unknown	-0.387
A8	TNAA_ECOLI	P0A853	tryptophanase	53	142	Cytoplasmic	-0.216
A9	MALK_ECOLI	P68187	ATP-binding protein malK	41	82	IM	-0.029
A10	TYPA_ECO27	P0A3B2	GTP-binding factor yihK	65	77	Cytoplasmic	-0.297
A11	YNCD_ECOLI	P45420	Probable Ton-B dependent receptor	77	62	OM	-0.334
A12	OSTA_ECOLI	P31554	organic solvent tolerance protein	90	134	OM	-0.657
A13	TORZ_ECOLI	P46923	Trimethylamine-N-oxide reductase 2	89	47	Periplasmic	-0.347
A14	OSTA_ECOLI	P31554	organic solvent tolerance protein	90	67	OM	-0.657
A15	OSTA_ECOLI	P31554	Organic solvent tolerance	90	73	OM	-0.657
A16	BTUB_ECOLI	P06129	BtuB precursor	68	202	OM	-0.534
A17	BTUB_ECOLI	P06129	BtuB precursor	68	222	OM	-0.534
A18	OMPA_ECOLI	P0A910	OmpA precursor	37	57	OM	-0.338
A19	TOLC_ECOLI	P02930	TolC precursor	54	87	OM	-0.429
A20	TOLC_ECOLI	P02930	TolC precursor	54	114	OM	-0.429
A21	TOLC_ECOLI	P02930	TolC precursor	54	63	OM	-0.429
A22	TOLC_ECOLI	P02930	TolC precursor	54	63	OM	-0.429
A24	EFTU_ECOLI	P0A6N1	Elongation factor Tu	43	54	Cytoplasmic	-0.202
A25	EFTU_ECOLI	P0A6N1	Elongation factor Tu	43	68	Cytoplasmic	-0.202
A26	ASNA_ECOLI	P00963	asparagine synthetase A	36	65	Cytoplasmic	-0.289
A27	ACRA_ECOLI	P0AE06	acridine efflux pump	42	57	IM	-0.255
A28	MDTE_ECOLI	P37636	YhiU protein precursor	41	116	IM	-0.207
A29	LAMB_ECOLI	P02943	LamB	47	75	OM	-0.515
A30	LAMB_ECOLI	P02943	LamB	47	77	OM	-0.515
A31	FADL_ECOLI	P10384	fadL precursor	49	61	OM	-0.299
A32	FADL_ECOLI	P10384	fadL precursor	49	64	OM	-0.299
A33	FADL_ECOLI	P10384	fadL precursor	49	64	OM	-0.299
A34	OMPA_ECOLI	P0A910	OmpA precursor	37	59	OM	-0.338
A35	OMPT_ECOLI	P09169	Omptin precursor	36	83	OM	-0.644

A36	MREB_ECOLI	P0A9X4	unknownn protein	37	89	Cytoplasmic	0.057
A37	Q8FEW0_ECOL6	Q8FEW0	Putative capsid protein of prophage	38	94	Unknown	-0.393
A38	OMPP_ECOLI	P34210	OmpP	35	97	OM	-0.626
A39	OMPA_ECOLI	P0A910	OmpA precursor	37	55	OM	-0.338
A40	OMPA_ECOLI	P0A910	OmpA precursor	37	50	OM	-0.338
A41	OMPP_ECOLI	P34210	OmpP	35	146	OM	-0.626
A42	OMPA_ECOLI	P0A910	OmpA precursor	37	97	OM	-0.338
A43	OMPP_ECOLI	P34210	OmpP	35	105	OM	-0.626
A44	UDP_ECOLI	P12758	Uridine phosphorylase	27	64	Cytoplasmic	0.014
A45	YEIN_ECOLI	P33025	Hypothetical protein yeiN	33	105	Unknown	0.194
A46	DPS_ECOLI	P0ABT2	Dps	18	25	Unknown	-0.227
A47	OMPA_ECOLI	P0A910	OmpA precursor	37	68	OM	-0.338
A48	Q9R2E3_ECOLI	Q9R2E3	Hypothetical protein yzzN	88	60	Unknown	-0.536
A49	OMPC_ECOLI	P06996	OmpC precursor	40	73	OM	-0.533
A50	OMPF_ECOLI	P02931	OmpF	37	49	OM	-0.398
A51	NMPC_ECOLI	P21420	NmpC precursor	40	124	OM	-0.420
A52	OMPT_ECOLI	P09169	OmpT	36	81	OM	-0.644
A53	OMPA_ECOLI	P0A910	OmpA precursor	37	68	OM	-0.338
A54	Q8VR99_ECOLI	Q8VR99	Hypothetical protein	22	60	Unknown	-0.076
A55	OMPA_ECOLI	P0A910	OmpA precursor	37	68	OM	-0.338
A56	TRAK1_ECOLI	P41066	TraK	26	119	OM	0.036
A57	OMPA_ECOLI	P0A910	OmpA precursor	37	68	OM	-0.338
A58	TSX_ECOLI	P0A927	Tsx	34	63	OM	-0.511
A59	MIPA_ECOLI	P0A908	MltA-interacting protein	28	80	OM	-0.401
A61	OMPW_ECOLI	P0A915	OmpW	23	51	OM	-0.026
A62	OMPW_ECOLI	P0A915	OmpW	23	33	OM	-0.026
A63	DPS_ECOLI	P0ABT2	Dps	18	96	Unknown	-0.227
A64	DPS_ECOLI	P0ABT2	Dps	18	107	Unknown	-0.227
A65	DPS_ECOLI	P0ABT2	Dps	18	102	Unknown	-0.227
A66	DPS_ECOLI	P0ABT2	Dps	18	67	Unknown	-0.227
A67	DPS_ECOLI	P0ABT2	Dps	18	82	Unknown	-0.227
A68	DPS_ECOLI	P0ABT2	Dps	18	95	Unknown	-0.227
A69	YBJP_ECOLI	P75818	YbjP precursor	19	60	OM	-0.459
A71	DPS_ECOLI	P0ABT2	Dps	18	102	Unknown	-0.227
A72	DPS_ECOLI	P0ABT2	Dps	18	89	Unknown	-0.227
A73	OMPX_ECOLI	P0A917	Outer membrane protein X	16	86	OM	-0.319
A74	SLYB_ECOLI	P0A905	slyB	16	59	OM	0.113
A75	YFGL_ECOLI	P77774	Hypothetical protein yfgL	42	68	OM	0.008
A77	SECD_ECOLI	P19673	Protein-export membrane protein	67	39	IM	0.115
A78	TRAG4_ECOLI	Q00185	TraG	70	42	IM	-0.308
A79	TOLC_ECOLI	P02930	TolC precursor	54	87	OM	-0.429
A80	VACJ_ECOLI	P76506	VacJ lipoprotein precursor	28	33	OM	-0.290
A81	TRAK1_ECOLI	P41066	TraK	26	91	OM	0.038

A82	FADL_ECOLI	P10384	fadL precursor	49	62	OM	-0.299
Sarcosine-soluble fraction							
B1	YAET_ECOLI	P0A940	putative outer membrane antigen	90	131	OM	-0.482
B2	DNAK_ECOLI	P0A6Y8	chaperone Hsp70	69	117	Cytoplasmic	-0.412
B3	CH60_ECOLI	P0A6F5	GroEL, chaperone Hsp60	55	82	Cytoplasmic	-0.012
B6	PT1_ECOLI	P08839	PEP-protein phosphotransferase system enzyme I	64	55	Cytoplasmic	-0.120
B7	RS1_ECOLI	P02349	protein S1	61	102	Cytoplasmic	-0.300
B8	OSTA_ECOLI	P31554	organic solvent tolerance	79	40	OM	-0.657
B9	RS1_ECOLI	P02349	protein S1	61	75	Cytoplasmic	-0.300
B10	PTA_ECOLI	P0A9M8	Phosphotransacetylase	77	54	Cytoplasmic	-0.083
B11	ACON2_ECOLI	P36683	aconitate hydrase B	93	51	Cytoplasmic	-0.117
B12	ODP1_ECOLI	P06958	pyruvate dehydrogenase	99	51	Cytoplasmic	-0.439
B14	NUOG_ECOLI	P33602	NADH dehydrogenase I	100	50	Cytoplasmic	-0.327
B15	ADHE_ECOLI	P0A9Q7	CoA-linked acetaldehyde dehydrogenase	96	60	Cytoplasmic	-0.068
B16	ADHE_ECOLI	P0A9Q7	CoA-linked acetaldehyde dehydrogenase	96	68	Cytoplasmic	-0.068
B17	ASPA_ECOLI	P0AC38	Aspartase	54	82	Cytoplasmic	-0.066
B18	TOLC_ECOLI	P02930	Outer membrane protein tolC	47	54	OM	-0.429
B19	ASPA_ECOLI	P0AC38	Aspartase	67	82	Cytoplasmic	-0.066
B20	PT1_ECOLI	P08839	PEP-protein phosphotransferase system enzyme I	64	108	Cytoplasmic	-0.120
B22	EFG_ECOLI	P0A6M8	EF-G	77	66	Cytoplasmic	-0.288
B23	MBHL_ECOLI	P0ACD8	hydrogenase-1 large subunit	66	63	IM	-0.210
B25	PFLB_ECOLI	P09373	formate acetyltransferase 1	85	83	Cytoplasmic	-0.383
B27	ATPA_ECOLI	P0ABB0	ATP synthase alpha subunit	55	108	IM	-0.044
B28	ATPA_ECOLI	P0ABB0	ATP synthase alpha subunit	55	84	IM	-0.044
B29	FLIC_ECOLI	P04949	flagellin	58	133	Flagellum	-0.370
B30	TIG_ECOLI	P0A850	trigger factor	48	123	Cytoplasmic	-0.427
B31	ATPB_ECOLI	P0ABB4	ATP synthase, beta subunit	50	188	IM	-0.122
B32	DEOB_ECOLI	P0A6K6	phosphopentomutase	44	64	Cytoplasmic	-0.270
B33	DEOB_ECOLI	P0A6K6	phosphopentomutase	44	64	Cytoplasmic	-0.270
B35	ATPB_ECOLI	P0ABB4	ATP synthase, beta subunit	50	143	IM	-0.122
B36	ENO_ECOLI	P0A6P9	Enolase	45	97	Cytoplasmic	-0.162
B37	ATPB_ECOLI	P0ABB4	ATP synthase, beta subunit	50	145	IM	-0.122
B38	ASPA_ECOLI	P0AC38	Aspartase	54	73	Cytoplasmic	-0.066
B39	ASPA_ECOLI	P0AC38	Aspartase	54	54	Cytoplasmic	-0.066
B40	EFTU_ECOLI	P0A6N1	Ef-Tu	42	92	Cytoplasmic	-0.202
B41	TNAA_ECOLI	P0A853	Tryptophanase	53	50	Cytoplasmic	-0.216
B42	TNAA_ECOLI	P0A853	Tryptophanase	53	54	Cytoplasmic	-0.216
B43	FTSZ_ECOLI	P0A9A6	FtsZ protein	40	130	Cytoplasmic	-0.004
B44	YFGL_ECOLI	P77774	putative dehydrogenase yfgL	42	62	OM	0.008
B45	OMPC_ECOLI	P06996	Outer membrane protein C	40	53	OM	-0.533

B46	GALM_ECOLI	P0A9C3	galactose-1-epimerase	38	72	Cytoplasmic	-0.466
B47	MDTE_ECOLI	P37636	multidrug resistance protein	41	68	IM	-0.207
B48	6PGL_ECOLI	P52697	putative isomerase	36	58	Cytoplasmic	-0.223
B49	ENO_ECOLI	P0A6P9	Enolase	45	60	Cytoplasmic	-0.162
B50	YBHC_ECOLI	P46130	Hypothetical protein in bioA 5'region	46	66	OM	-0.357
B51	ACRA_ECOLI	P0AE06	acridine efflux pump	42	57	IM	-0.255
B52	ENO_ECOLI	P0A6P9	Enolase	45	76	Cytoplasmic	-0.162
B53	EFTU_ECOLI	P0A6N1	Ef-Tu	42	98	Cytoplasmic	-0.202
B54	ACRA_ECOLI	P0AE06	acridine efflux pump	42	70	IM	-0.255
B55	ACKA_ECOLI	P0A6A3	acetate kinase	43	62	Cytoplasmic	-0.047
B56	KBL_ECOLI	P0AB77	2-amino-ketobutyrate CoA ligase	43	52	Cytoplasmic	-0.049
B57	Q57460_ECOLI	Q57460	Transposase Tn5	53	54	Unknown	-0.404
B58	YGFZ_ECOLI	P0ADE8	YgfZ protein	36	60	Unknown	-0.253
B60	HLDD_ECOLI	P67910	ADP-L-glycero-D-mannoheptose-6-epimerase	35	107	Unknown	-0.266
B61	TALB_ECOLI	P0A870	Transaldolase B	35	71	Cytoplasmic	-0.216
B62	OMPA_ECOLI	P0A910	Outer membrane protein A	37	61	OM	-0.338
B63	CDD_ECOLI	P0ABF6	cytidine/deoxycytidine deaminase	31	62	Unknown	0.001
B64	EFTU_ECOLI	P0A6N1	Ef-Tu	42	61	Cytoplasmic	-0.202
B65	ALF_ECOLI	P0AB71	fructose-bisphosphate aldolase	39	52	Unknown	-0.229
B66	OMPA_ECOLI	P0A910	Outer membrane protein A	37	50	OM	-0.338
B67	ALF_ECOLI	P0AB71	fructose-bisphosphate aldolase	39	76	Unknown	-0.229
B68	MDH_ECOLI	P61889	malate dehydrogenase	32	60	Unknown	0.193
B69	PTNAB_ECOLI	P69797	PTS enzyme IIAB, mannose-specific	35	79	Cytoplasmic	-0.064
B70	BAES_ECOLI	P30847	sensor protein BaeS	52	50	IM	-0.207
B71	MENB_ECOLI	P0ABU0	dihydroxynaphthoic acid synthetase	32	95	Unknown	-0.339
B72	MENB_ECOLI	P0ABU0	dihydroxynaphthoic acid synthetase	32	68	Unknown	-0.339
B73	Q93ES6_ECOLI	Q93ES6	gamma intimin	33	50	unknown	-0.198
B74	YDBC_ECOLI	P25906	putative dehydrogenase	31	71	Cytoplasmic	0.047
B75	TSX_ECOLI	P0A927	Tsx	34	50	OM	-0.511
B76	CDD_ECOLI	P0ABF6	cytidine/deoxycytidine deaminase	31	62	Unknown	0.001
B77	FABI_ECOLI	P29132	enoyl-[acyl-carrier-protein] reductase	28	51	IM	0.156
B78	PTNAB_ECOLI	P69797	PTS enzyme IIAB, mannose-specific	35	59	Cytoplasmic	-0.064
B80	OMPA_ECOLI	P0A910	Outer membrane protein A	37	80	OM	-0.338
B81	METQ_ECOLI	P28635	D-methionine transport protein	29	80	OM	-0.137
B82	OMPA_ECOLI	P0A910	Outer membrane protein A	37	59	OM	-0.338
B84	TSX_ECOLI	P0A927	Tsx	34	102	OM	-0.511
B85	YFIO_ECOLI	P0AC02	putative lipoprotein	28	79	OM	-0.484

B86	SSPA_ECOLI	P0ACA3	Stringent starvation protein A	24	123	Cytoplasmic	-0.275
B87	OMPA_ECOLI	P0A910	Outer membrane protein A	37	62	OM	-0.338
B88	SSPA_ECOLI	P0ACA3	Stringent starvation protein A	24	74	Cytoplasmic	-0.275
B89	TPIS_ECOLI	P0A858	triosephosphate isomerase	27	42	Unknown	0.010
B90	YDFG_ECOLI	P39831	NADP-dependent L-serine/L-allo-threonine dehydrogenase ydfG	27	61	Cytoplasmic	-0.174
B92	RS4_ECOLI	P0A7V8	30S ribosomal subunit protein S4	23	62	Cytoplasmic	-0.676
B93	DKGA_ECOLI	Q46857	2,5-diketo-D-gluconate reductase	27	57	Cytoplasmic	-0.375
B94	OMPR_ECOLI	P0AA16	response regulator affecting transcription of ompC and ompF	27	62	Cytoplasmic	-0.345
B95	AHPC_ECOLI	P0AE08	alkyl hydroperoxide reductase	20	64	Cytoplasmic	-0.289
B96	OMPX_ECOLI	P0A917	Outer membrane protein X	18	50	OM	-0.319
B97	YBJP_ECOLI	P75818	putative lipoprotein ybjP	19	56	OM	-0.459
B98	UPP_ECOLI	P0A8F0	uracil phosphoribosyltransferase	23	69	Cytoplasmic	0.073
B99	SLP_ECOLI	P37194	Outer membrane protein Slp	20	60	OM	-0.140
B100	OMPX_ECOLI	P0A917	Outer membrane protein X	18	84	OM	-0.319
B101	RS9_ECOLI	P0A7X3	30S ribosomal subunit protein S9	14	51	Cytoplasmic	-0.706
B102	OMPW_ECOLI	P0A915	Outer membrane protein W	23	50	OM	-0.026
B103	SSB_ECOLI	P02339	Single-strand binding protein	19	74	Cytoplasmic	-0.722
B104	RL5_ECOLI	P62399	50S ribosomal subunit protein L5	20	50	Cytoplasmic	-0.294
B105	DPS_ECOLI	P0ABT2	Dps	18	72	Unknown	-0.227
B106	SLP_ECOLI	P37194	Outer membrane protein Slp	20	55	OM	-0.140
B107	SLP_ECOLI	P37194	Outer membrane protein Slp	20	57	OM	-0.140
B108	YGAU_ECOLI	P0ADE6	hypothetical protein b2665	16	61	Unknown	-0.474
B109	Q47544_ECOLI	Q47544	conjugal transfer protein M	14	52	Cytoplasmic	-0.504
B110	YAJQ_ECOLI	P0A8E7	hypothetical protein b0426	19	68	Unknown	-0.516
B111	RS7_ECOLI	P02359	30S ribosomal subunit protein S7	20	80	Cytoplasmic	-0.473
B112	Q6S5V7_ECOLI	Q6S5V7	fumarase C	17	54	Cytoplasmic	-0.300
B113	YCFP_ECOLI	P0A8E1	putative hydrolase	21	56	Cytoplasmic	-0.591
B114	FABZ_ECOLI	P0A6Q6	(3R)-hydroxymyristol acyl carrier protein dehydratase	17	124	Cytoplasmic	0.053
B115	TIG_ECOLI	P0A850	trigger factor	48	68	Cytoplasmic	-0.427
B116	OMPA_ECOLI	P0A910	Outer membrane protein A	37	69	OM	-0.338
B117	DHSB_ECOLI	P07014	succinate dehydrogenasem, Fe-S protein	27	92	IM	-0.299

Supplementary Table 2 Classification and characteristics of OMPs

Accession name	Integral membrane protein	Induction	p*I*	MW(kD)	GRAVY	Have identified by authors
Porin						
LAMB_ECOLI	Y**	By maltose	4.72	47	-0.625	U M L
TSX_ECOLI	Y		4.87	31	-0.633	U M L
NMPC_ECOLI	Y		4.55	38	-0.532	U
OMPA_ECOLI	Y		5.60	35	-0.444	U M L
OMPC_ECOLI	Y		4.48	38	-0.659	U M L
OMPF_ECOLI	Y		4.64	37	-0.505	U M L
OMPG_ECOLI	Y		4.38	33	-0.807	
OMPN_ECOLI	Y		4.35	39	-0.657	
PHOE_ECOLI	Y	By phosphate starvation	4.80	37	-0.686	
WZA_ECOLI	Y		5.47	40	-0.281	
YCCZ_ECOLI	Y		5.24	40	-0.204	
YEDS_ECOLI	Y		4.35	41	-0.637	
YIEC_ECOLI	Y		5.11	58	-0.667	
NANC_ECOLI	Y	Induced by N-acetylneuraminate and modulated by N-acetylglucosamine	6.73	25	-0.935	
Lipoproteins						
BLC_ECOLI			8.56	18	-0.467	
CUSC_ECOLI		Transcriptionally regulated by CusR in response to copper and silver ions	5.82	49	-0.299	
MDTP_ECOLI			6.45	51	-0.169	
MDTQ_ECOLI			6.45	50	-0.291	
CUTF_ECOLI			4.82	24	-0.491	
FLGH_ECOLI			6.80	22	0.254	
LOLB_ECOLI			8.58	21	-0.863	
LPP_ECOLI			8.12	6	-0.905	
MLTA_ECOLI			8.46	38	-0.488	
MLTB_ECOLI			8.47	38	-0.412	
NLPB_ECOLI			4.96	34	-0.368	M L
PAL_ECOLI			5.59	17	-0.705	M

RZOD_ECOLI			8.90	5	-0.714	
RZOR_ECOLI			5.95	5	-0.626	
METQ_ECOLI			4.93	27	-0.282	U L
SLP_ECOLI		Induced upon starvation and slowed growth	6.32	19	-0.304	U M
SLYB_ECOLI			8.12	14	-0.089	U M
TRAK1_ECOLI			5.49	24	0.009	U
VACJ_ECOLI			4.72	26	-0.402	U
YBHC_ECOLI			5.49	44	-0.440	U M L
YBJP_ECOLI			5.48	17	-0.642	U
YFGL_ECOLI			4.61	40	-0.043	U L
YFIO_ECOLI			5.48	26	-0.617	U L
YQHH_ECOLI			8.58	8	-0.618	
TonB-dependent receptor family						
CIRA_ECOLI		By iron and by a □amp/□amp receptor protein complex	5.03	71	-0.672	U M
BTUB_ECOLI	Y	By constitutively expressed	5.10	66	-0.585	U M L
FECA_ECOLI		by citrate plus iron suggest that the Fe (3+) dicitrate complex must enter the periplasm	5.36	82	-0.571	U L
FEPA_ECOLI	Y		5.23	80	-0.620	U M
FHUA_ECOLI	Y		5.13	79	-0.513	M L
FHUE_ECOLI		For induction, the TonB and the ExbB proteins have to be active	4.72	77	-0.572	U M
YBIL_ECOLI			5.43	78	-0.534	U M
YNCD_ECOLI			5.21	75	-0.622	U
Usher protein						
AFAC_ECOLI	Y		5.49	91	-0.452	
CSD1_ECOLI	Y		9.17	92	-0.465	
AGGC_ECOLI	Y		7.26	91	-0.443	
FAED_ECOLI	Y		5.16	82	-0.339	

FAND_ECOLI	Y		5.43	85	-0.501	
FIMD_ECOLI	Y		5.96	92	-0.446	
FOCD_ECOLI	Y		6.58	92	-0.494	
HTRE_ECOLI	Y	By heat shock	4.78	92	-0.434	
PAPC_ECOLI	Y		6.05	89	-0.404	
SFMD_ECOLI	Y		5.29	92	-0.396	
YBGQ_ECOLI	Y		4.99	88	-0.458	
YCBS_ECOLI	Y		5.21	92	-0.397	
YEHB_ECOLI	Y		5.67	90	-0.546	
YFCU_ECOLI	Y		4.67	94	-0.565	
YHCD_ECOLI	Y		4.74	84	-0.359	
YQIG_ECOLI	Y		5.07	90	-0.565	
YRAJ_ECOLI	Y		5.08	89	-0.606	
Others						
AG43_ECOLI			5.37	101*	-0.314	M
FADL_ECOLI	Y	By long-chain fatty acids	4.99	46	-0.389	U M L
GSPD_ECOLI			5.28	68	-0.229	
HLPA_ECOLI			9.52	16	-0.661	
HOFQ_ECOLI			5.85	43	-0.182	
MIPA_ECOLI			5.03	26	-0.568	U M
NFRA_ECOLI			6.44	108	-0.479	
OMPP_ECOLI	Y	Inhibited by zinc	5.89	33	-0.747	U M
OMPW_ECOLI			5.58	21	-0.162	U M L
OMPX_ECOLI	Y		5.30	16	-0.591	U M L
OSTA_ECOLI			4.85	87	-0.690	U L
PGPB_ECOLI	Y		10.13	29	0.255	
PA1_ECOLI		By membrane damaging	5.05	31	-0.557	M
TOLC_ECOLI	Y		5.23	51	-0.491	U M L
YAET_ECOLI			4.87	88	-0.524	U L
YEJO_ECOLI			4.71	91	-0.200	
YIAT_ECOLI			4.48	25	-0.361	
YPJA_ECOLI			5.40	163	-0.343	
OMPT_ECOLI	Y		5.38	33	-0.775	U M L

Note: U, in this study, M, Molloy [14], L, Lai [17]

* This protein contains alpha and beta chains, respectively, being 49.8 kD and 51.5 kD and showing two spots in gel. Therefore, its MW is not calculated as the range 90-200.

** Yes