



HOKKAIDO UNIVERSITY

Title	Gene expression profiling of <i>Pseudomonas putida</i> F1 after exposure to aromatic hydrocarbon in soil by using proteome analysis
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Table S2. Proteins identified on the 2-DE gels in TEB0, T12, E12, and B12 samples.

No. of spots	Pput name	Accession #	Gene	Protein name	Theoretical		Mascot_score				Sequence coverage (%)				No. of peptides			
					pI	MW (kDa)	BTE0	T12	E12	B12	BTE0	T12	E12	B12	BTE0	T12	E12	B12
1	Pput_0792	gi 148546038	-	hypothetical protein Pput_0792	4.97	64757.64	nd	-	654	192	nd	-	19.9	5.6	nd	-	12	3
2	Pput_3470	gi 148548678	<i>Tig</i>	trigger factor	4.84	48429.14	697	-	-	-	35	-	-	-	27	-	-	-
3	Pput_1157	gi 148546400	-	OmpA/MotB domain-containing protein	4.95	21402.55	213	-	-	-	23	-	-	-	7	-	-	-
4	Pput_0382	gi 148545637	-	malate synthase G	5.64	78199.81	90	-	189	-	3.3	-	7.4	-	2	-	5	-
5	Pput_2061	gi 148547283	<i>katG</i>	catalase/oxidase HPI	5.72	81955.06	81	-	196	-	3.6	-	7.3	-	2	-	5	-
6	Pput_0431	gi 148545683	-	putative serine protein kinase, PrkA	5.74	73736.69	216	-	47	-	13.4	-	4.1	-	9	-	2	-
7	Pput_1667	gi 148546905	-	dihydrolipoamide dehydrogenase	5.93	49925.1	795	-	671	-	41.6	-	34.3	-	17	-	16	-
8	Pput_4531	gi 148549733	-	methymlalonate-semialdehyde dehydrogenase	5.85	54342.1	230	-	127	-	12.8	-	8.5	-	6	-	4	-
9	Pput_1667	gi 148546905	-	dihydrolipoamide dehydrogenase	5.93	49925.1	1340	-	822	-	44.4	-	37.7	-	22	-	18	-
10	Pput_4291	gi 148549497	-	protease Do	5.82	47836.16	168	-	-	-	8.6	-	-	-	4	-	-	-
10	Pput_2904	gi 148548116	-	aldehyde dehydrogenase	5.89	53135.27	-	-	65	-	-	-	6.3	-	-	-	2	-
11	Pput_1038	gi 148546281	-	arginine deiminase	5.66	46389.67	115	-	880	-	5.3	-	40	-	2	-	21	-
12	Pput_1175	gi 148546418	-	extracellular ligand-binding receptor	5.77	37088.09	322	-	373	-	23.7	-	22.9	-	8	-	8	-
13	Pput_1053	gi 148546296	-	extracellular solute-binding protein	5.83	43041.93	530	-	-	-	30.8	-	-	-	13	-	-	-
13	Pput_2902	gi 148548114	-	oxidoreductase FAD-binding subunit	5.79	38266.35	-	-	264	-	-	-	21.8	-	-	-	8	-
14	Pput_1668	gi 148546906	<i>sucC</i>	succinyl-CoA synthetase subunit beta	5.83	41213.55	869	-	887	599	46.9	-	49.7	35.8	17	-	19	13
15	Pput_5062	gi 148550262	-	D-3-phosphoglycerate dehydrogenase	5.93	44311.37	191	-	298	100	10.5	-	19.8	4.9	4	-	7	2
16	Pput_1037	gi 148546280	-	ornithine carbamoyltransferase	5.92	37873.05	411	-	493	359	34.5	-	37.2	27.4	13	-	14	10
17	Pput_4740	gi 148549942	-	short-chain dehydrogenase/reductase SDR	5.97	27382.95	92	-	-	-	7.5	-	-	-	2	-	-	-
17	Pput_2895	gi 148548107	-	short-chain dehydrogenase/reductase SDR	5.98	27293.13	-	-	234	-	-	-	29	-	-	-	7	-
18	Pput_2882	gi 148548095	<i>todF</i>	alpha/beta hydrolase fold	5.99	30768.73	-	248	496	365	-	28.3	37	36.6	-	8	11	11
19	Pput_2874	gi 148548087	<i>todI</i>	acetaldehyde dehydrogenase	5.84	33663.45	-	644	1288	856	-	37.3	54.7	30.7	-	14	20	11
20	Pput_2873	gi 148548086	<i>todH</i>	4-hydroxy-2-ketovalerate aldolase	5.84	38449.34	-	451	555	666	-	29.8	31.5	27.8	-	12	14	12
21	Pput_1668	gi 148546906	<i>sucC</i>	succinyl-CoA synthetase subunit beta	5.83	41213.55	559	515	459	202	38.9	30.4	33.8	18	13	10	12	6
22	Pput_4243	gi 148549449	-	NADH:flavin oxidoreductase/NADH oxidase	5.63	40473.9	254	-	243	-	17.4	-	17.4	-	5	-	6	-
23	Pput_4428	gi 148549630	<i>aapJ</i>	extracellular solute-binding protein	5.54	34016.45	334	542	613	359	31	40.6	51.8	34.5	12	17	18	11
24	Pput_0473	gi 148545725	-	elongation factor Tu	5.22	43468.15	415	-	-	-	31.7	-	-	-	10	-	-	-
24	Pput_2878	gi 148548091	<i>TodA</i>	FAD-dependent pyridine nucleotide-disulphide oxidoreductase	5.15	42784.29	-	-	447	-	-	-	22.4	-	-	-	12	-
25	Pput_0512	gi 148545764	-	DNA-directed RNA polymerase subunit alpha	4.91	36607.32	307	-	578	-	30.3	-	45	-	15	-	18	-
26	Pput_0894	gi 148546138	-	ornithine decarboxylase	4.97	43482.31	nd	-	143	-	nd	-	10.6	-	nd	-	4	-
27	Pput_3771	gi 148548977	-	3-isopropylmalate dehydrogenase	5.03	38800.05	nd	-	57	-	nd	-	7.2	-	nd	-	2	-
28	Pput_0577	gi 148545827	-	inorganic pyrophosphatase	4.77	19176.8	255	-	-	-	30.9	-	-	-	7	-	-	-
29	Pput_0097	gi 148545354	<i>trpA</i>	tryptophan synthase subunit alpha	5.17	28349.84	75	-	-	-	10.8	-	-	-	3	-	-	-
30	Pput_4079	gi 148549285	-	oxidoreductase FAD/NAD(P)-binding subunit	5.22	29690.9	141	-	-	-	23.9	-	-	-	8	-	-	-
31	Pput_3436	gi 148548644	<i>prpB</i>	2-methylisocitrate lyase	5.33	31792.27	-	-	169	-	-	-	16.6	-	-	-	5	-
32	Pput_1270	148546513	-	phosphoribosylaminoimidazole-succinocarboxamide synthase	5.37	26898.97	354	-	-	-	35.6	-	-	-	17	-	-	-
33	Pput_3521	gi 148548729	-	enoyl-CoA hydratase/isomerase	5.43	27650.33	nd	-	85	-	nd	-	7	-	nd	-	2	-
34	Pput_3469	gi 148548677	<i>clpP</i>	ATP-dependent Clp protease proteolytic subunit	5.53	23499.86	100	-	-	-	5.6	-	-	-	4	-	-	-
34	Pput_2880	gi 148548093	<i>todC2</i>	toluene dioxygenase	5.48	21999.04	-	nd	275	982	-	nd	20.3	56.7	-	nd	5	12
35	Pput_1062	gi 148546305	-	keto-hydroxyglutarate-aldolase/keto-deoxy-phosphogluconate aldolase	5.55	24069.44	141	-	nd	-	21.2	-	nd	-	5	-	nd	-
36	nd	nd	nd	nd	nd	nd	nd	-	nd	-	nd	-	nd	-	nd	-	nd	-
37	Pput_5198	gi 148550398	-	acetylglutamate kinase	5.57	31932.92	272	-	-	-	13.6	-	-	-	7	-	-	-
38	Pput_4185	gi 148549391	<i>tsf</i>	elongation factor Ts	5.14	30398.88	1272	-	-	-	49.8	-	-	-	51	-	-	-
39	Pput_4591	gi 148549793	-	dihydrodipicolinate reductase	5.68	28395.85	123	-	68	-	8.2	-	7.9	-	2	-	2	-
40	Pput_4216	gi 148549422	<i>adk</i>	adenylate kinase	5.59	23208.07	94	-	109	-	17.1	-	12.5	-	3	-	2	-
41	Pput_2876	gi 148548089	<i>todE</i>	glyoxalase/bleomycin resistance protein/dioxygenase	5.79	32057.92	-	283	282	355	-	16.5	21	19.6	-	4	7	6
42	Pput_4543	gi 148549745	<i>ilvH</i>	acetoacetylase synthase 3 regulatory subunit	5.93	17773.62	57	-	nd	-	11.7	-	nd	-	2	-	nd	-
43	Pput_3777	gi 148548983	<i>ibpA</i>	heat shock protein Hsp20	5.94	16127.36	262	-	151	-	45.6	-	32.7	-	7	-	5	-
44	nd	nd	nd	nd	nd	nd	nd	-	nd	-	nd	-	nd	-	nd	-	-	-
45	Pput_1669	gi 148546907	-	succinyl-CoA synthetase subunit alpha	5.89	30091.57	545	34	nd	47	29.6	3.1	nd	9.5	10	nd	11	2
46	Pput_0755	gi 148546001	-	50S ribosomal protein L25/general stress protein Ctc	5.72	21285.19	321	103	270	75	37.1	11.2	33	9.6	10	2	7	2
47	Pput_1669	gi 148546907	-	succinyl-CoA synthetase subunit alpha	5.89	30091.57	56	-	225	-	6.5	-	20.4	-	2	-	8	-
48	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-
49	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-
50	Pput_4578	gi 148549780	<i>nusA</i>	transcription elongation factor NusA	4.58	54640.39	459	-	-	-	22.1	-	-	-	19	-	-	-
51	Pput_3942	gi 148549148	<i>rpsA</i>	30S ribosomal protein S1	4.82	61517.94	701	-	-	-	34.8	-	-	-	32	-	-	-
52	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-
53	Pput_5295	gi 148550495	-	FOF1 ATP synthase subunit beta	4.88	49328.34	69	-	-	-	4.6	-	-	-	2	-	-	-
54	Pput_4005	gi 148549211	-	peptidylprolyl isomerase, FKBP-type	4.88	23958.53	327	-	-	-	34	-	-	-	10	-	-	-
55	Pput_0539	gi 148545789	-	OmpW family protein	4.91	21941.15	129	-	181	-	15.4	-	23.3	-	3	-	4	-
56	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-
57	Pput_0936	gi 148546179	-	tartrate/fumarate subfamily Fe-S type hydro-lyase alpha subunit	5.19	54673.94	91	-	-	-	4.1	-	-	-	2	-	-	-
58	Pput_2881	gi 148548094	<i>todC1</i>	ring hydroxylating dioxygenase, alpha subunit	5.27	50911.76	-	335	584	341	-	13.1	22	17.6	-	6	17	8
59	Pput_4497	gi 148549699	-	trans-2-enoyl-CoA reductase	5.16	44237.56	121	-	-	-	10.4	-	-	-	4	-	-	-
60	Pput_2764	gi 148547978	-	saccharopine dehydrogenase	5.17	45335.06	57	-	-	-	4.6	-	-	-	2	-	-	-
61	Pput_1666	gi 148546904	-	dihydrolipoamide succinyltransferase	5.2	42410.11	94	-	-	-	7.9	-	-	-	2	-	-	-
62	Pput_4383	gi 148549588	-	cell division protein FtsA	5.2	44864.36	242	-	-	-	11.7	-	-	-	5	-	-	-
63	Pput_0002	gi 148545261	-	DNA polymerase III subunit beta	5.16	40693.32	264	-	-	-	21	-	-	-	8	-	-	-
64	Pput_1442	gi 148546682	-	aspartate kinase	5.25	44577.33	262	-	-	-	24.3	-	-	-	11	-	-	-
65	Pput_1748	gi 148546986	-	isocitrate lyase	5.39	48631.06	168	-	-	-	14.7	-	-	-	7	-	-	-
66	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-
67	Pput_1003	gi 148546246	-	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	5.35	44944.5	71	-	291	-	7.1	-	14.3	-	3	-	10	-
68	Pput_1057	gi 148546300	-	carbohydrate-selective porin OprB	5.43	46777	497	-	-	-	27.1	-	-	-	27	-	-	-
69	Pput_3770	gi 148548976	-	aspartate-semialdehyde dehydrogenase	5.46	40645.82	147	-	-	-	11.4	-	-	-	4	-	-	-
70	Pput_4542	gi 148549744	-	ketol-acid reductoisomerase	5.48	36347.35	197	-	-	-	10.7	-	-	-	3	-	-	-
71	Pput_4833	gi 148550035	-	fructose-1,6-bisphosphate aldolase	5.48	38428.15	309	-	399	-	23.2	-	20.3	-	10	-	13	-
72	Pput_1053	gi 148546296	-	extracellular solute-binding protein	5.83	43041.93	102	-	-	-	8.6	-	-	-	3	-	-	-
73	Pput_3574	gi 161936355	-	transaldolase B	5.37	34720.93	175	-	-	-	14.9	-	-	-	4	-	-	-
73	Pput_2055	gi 148547277	<i>cotA</i>	catechol 1,2-dioxygenase	5.14	34243.1	-	-	-	85	-	-	-	8.4	-	-	-	3
74	Pput_4594	gi 148549796	-	GrpE protein</														

92	Pput_4958	gjl148550160	-	malate dehydrogenase	5.09	45428.55	436	-	-	-	30.8	-	-	-	11	-	-	-
93	Pput_4428	gjl148549630	<i>aapJ</i>	extracellular solute-binding protein	5.54	34016.45	91	99	-	161	8.8	10.5	-	15.2	3	3	-	5
94	Pput_4958	gjl148550160	-	malate dehydrogenase	5.09	45428.55	nd	-	-	-	nd	-	-	-	nd	-	-	-
95	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-
96	Pput_0886	gjl148546130	-	Pyrrrolo-quinoline quinone	4.74	38015.59	107	-	-	-	10	-	-	-	5	-	-	-
97	Pput_4745	gjl148549947	-	extracellular ligand-binding receptor	5.74	37297.97	474	-	-	-	22	-	-	-	15	-	-	-
98	Pput_3651	gjl148548857	-	OmpF family protein	4.63	34548.55	-	-	-	295	-	-	-	21.5	-	-	-	8
99	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-	nd
100	Pput_1235	gjl148546478	<i>oprD</i>	outer membrane porin	4.75	43598.4	-	-	-	167	-	-	-	18.8	-	-	-	9
101	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-	nd
102	Pput_4363	gjl148549568	<i>groEL</i>	chaperonin GroEL	4.97	56693.68	-	-	-	233	-	-	-	9.9	-	-	-	4
103	Pput_4363	gjl148549568	<i>groEL</i>	chaperonin GroEL	4.97	56693.68	-	-	-	246	-	-	-	12.3	-	-	-	7
104	Pput_4363	gjl148549568	<i>groEL</i>	chaperonin GroEL	4.97	56693.68	-	-	-	89	-	-	-	5.1	-	-	-	2
105	Pput_5295	gjl148550495	-	FOF1 ATP synthase subunit beta	4.88	49328.34	-	-	-	94	-	-	-	4.6	-	-	-	2
106	Pput_5295	gjl148550495	-	FOF1 ATP synthase subunit beta	4.88	49328.34	-	-	-	388	-	-	-	21.2	-	-	-	8
107	Pput_1123	gjl148546366	-	bacterioferritin	4.74	17960.12	-	-	-	157	-	-	-	21.7	-	-	-	3
108	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-	nd
109	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-	nd
110	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-	nd
111	Pput_5088	gjl148550288	-	extracellular solute-binding protein	5.85	37653.22	-	-	-	73	-	-	-	6.8	-	-	-	2
112	Pput_2873	gjl148548086	<i>todH</i>	4-hydroxy-2-ketovaleate aldolase	5.84	38449.34	-	203	219	175	-	17.6	23	14.5	-	6	7	5
113	Pput_2053	gjl148547275	<i>catB</i>	muconate and chloromuconate cycloisomerase	5.89	40179.22	-	-	-	140	-	-	-	5.4	-	-	-	2
114	Pput_1175	gjl148546418	-	extracellular ligand-binding receptor	5.77	37088.09	-	-	-	393	-	-	-	23.2	-	-	-	9
115	Pput_2053	gjl148547275	<i>catB</i>	muconate and chloromuconate cycloisomerase	5.89	40179.22	-	-	-	256	-	-	-	12.6	-	-	-	5
116	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-	nd
117	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-	nd
118	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-	-	nd	-	-	-	nd
119	Pput_2874	gjl148548087	<i>todI</i>	acetaldehyde dehydrogenase	5.84	33663.45	-	372	344	282	-	26.6	20.6	11.1	-	8	6	3
120	Pput_2877	gjl148548090	<i>todD</i>	2,3-dihydroxy-2,3-dihydrophenylpropionate dehydrogenase	5.29	28763.94	-	410	132	223	-	36.4	19.3	32.7	-	12	5	7
121	Pput_4734	gjl148549936	-	Ferritin, Dps family protein	4.82	20048.03	-	121	-	-	-	23.9	-	-	-	4	-	-
122	Pput_2785	gjl148547999	-	integral membrane sensor signal transduction histidine kinase	nd	nd	-	nd	-	-	-	nd	-	-	-	nd	-	-
123	Pput_4745	gjl148549947	-	extracellular ligand-binding receptor	5.74	37297.97	-	341	-	-	-	24.6	-	-	-	9	-	-
124	nd	nd	nd	nd	nd	nd	-	nd	-	-	-	nd	-	-	-	nd	-	-
125	Pput_2765	gjl148547979	-	methyltransferase type 12	5.52	37387.42	-	40	-	-	-	5.5	-	-	-	2	-	-
126	Pput_1175	gjl148546418	-	extracellular ligand-binding receptor	5.77	37088.09	-	156	-	-	-	14.6	-	-	-	5	-	-
127	Pput_2881	gjl148548094	<i>todC1</i>	ring hydroxylating dioxygenase, alpha subunit	5.27	50911.76	-	166	-	-	-	6.4	-	-	-	3	-	-
128	Pput_3651	gjl148548857	-	OmpF family protein	4.63	34548.55	-	-	129	-	-	-	10.8	-	-	-	3	-
129	Pput_2881	gjl148548094	<i>todC1</i>	ring hydroxylating dioxygenase, alpha subunit	5.27	50911.76	-	-	353	-	-	-	18.4	-	-	-	9	-
130	Pput_2898	gjl148548110	-	ring hydroxylating dioxygenase, alpha subunit	5.09	48936.89	-	-	489	-	-	-	29.7	-	-	-	12	-
131	Pput_2898	gjl148548110	-	ring hydroxylating dioxygenase, alpha subunit	5.09	48936.89	-	-	511	-	-	-	22.1	-	-	-	10	-
132	Pput_0473	gjl148545725	-	elongation factor Tu	5.22	43468.15	-	-	2110	-	-	-	42.8	-	-	-	77	-
133	Pput_0473	gjl148545725	-	elongation factor Tu	5.22	43468.15	-	-	248	-	-	-	22.7	-	-	-	8	-
134	nd	nd	nd	nd	nd	nd	-	nd	-	-	-	nd	-	-	-	nd	-	-
135	Pput_4363	gjl148549568	<i>groEL</i>	chaperonin GroEL	4.97	56693.68	-	-	118	-	-	-	8.1	-	-	-	3	-
136	Pput_2881	gjl148548094	<i>todC1</i>	ring hydroxylating dioxygenase, alpha subunit	5.27	50911.76	-	-	869	-	-	-	34	-	-	-	27	-
137	Pput_2875	gjl148548088	<i>todG</i>	4-oxalocrotonate decarboxylase	4.9	28221.78	-	-	478	-	-	-	36.6	-	-	-	8	-
138	Pput_2890	gjl148548102	-	4-oxalocrotonate decarboxylase	4.88	28098.63	-	-	103	-	-	-	7.6	-	-	-	3	-
139	Pput_2878	gjl148548091	<i>todA</i>	FAD-dependent pyridine nucleotide-disulphide oxidoreductase	5.15	42784.29	-	-	981	-	-	-	42.2	-	-	-	16	-
140	Pput_2823	gjl148548037	-	azoreductase	4.85	21309.93	-	-	289	-	-	-	36.9	-	-	-	7	-
141	nd	nd	nd	nd	nd	nd	-	nd	-	-	-	nd	-	-	-	-	-	-
142	Pput_3579	gjl148548785	-	VacJ family lipoprotein	4.96	22823.67	-	-	229	-	-	-	24.7	-	-	-	5	-
143	Pput_2881	gjl148548094	<i>todC1</i>	ring hydroxylating dioxygenase, alpha subunit	5.27	50911.76	-	-	707	-	-	-	18.9	-	-	-	19	-
144	Pput_2905	gjl148548117	-	short-chain dehydrogenase/reductase SDR	5.37	26129.32	-	-	450	-	-	-	22.2	-	-	-	7	-
145	Pput_2877	gjl148548090	<i>todD</i>	2,3-dihydroxy-2,3-dihydrophenylpropionate dehydrogenase	5.29	28763.94	-	-	114	-	-	-	13.5	-	-	-	3	-
146	Pput_2880	gjl148548093	<i>todC2</i>	toluene dioxygenase	5.48	21999.04	-	-	260	-	-	-	25.1	-	-	-	6	-
147	Pput_2876	gjl148548089	<i>todE</i>	glyoxalase/bleomycin resistance protein/dioxygenase	5.79	32057.92	-	-	88	-	-	-	10.7	-	-	-	3	-
148	nd	nd	nd	nd	nd	nd	-	nd	-	-	-	nd	-	-	-	-	-	-
149	Pput_2893	gjl148548105	-	class II aldolase/adducin family protein	5.7	26158.33	-	-	160	-	-	-	22.2	-	-	-	5	-
150	Pput_2880	gjl148548093	<i>todC2</i>	toluene dioxygenase	5.48	21999.04	-	-	562	-	-	-	40.1	-	-	-	9	-
151	Pput_2880	gjl148548093	<i>todC2</i>	toluene dioxygenase	5.48	21999.04	-	-	705	-	-	-	40.1	-	-	-	10	-
152	Pput_2891	gjl148548103	-	alpha/beta hydrolase fold	6.05	32485.86	-	-	403	-	-	-	33	-	-	-	11	-
153	Pput_2891	gjl148548103	-	alpha/beta hydrolase fold	6.05	32485.86	-	-	946	-	-	-	34.4	-	-	-	15	-
154	Pput_2896	gjl148548108	-	glyoxalase/bleomycin resistance protein/dioxygenase	6.09	35343.7	-	-	318	-	-	-	31.1	-	-	-	9	-
155	Pput_2896	gjl148548108	-	glyoxalase/bleomycin resistance protein/dioxygenase	6.09	35343.7	-	-	594	-	-	-	39.7	-	-	-	13	-
156	Pput_2888	gjl148548100	<i>mhpE2</i>	4-hydroxy-2-ketovaleate aldolase	5.91	38035.07	-	-	164	-	-	-	12.9	-	-	-	4	-
157	Pput_2888	gjl148548100	<i>mhpE2</i>	4-hydroxy-2-ketovaleate aldolase	5.91	38035.07	-	-	375	-	-	-	25.1	-	-	-	9	-
158	Pput_0524	gjl148545776	-	formate dehydrogenase, beta subunit	5.9	34530.82	-	-	68	-	-	-	9.2	-	-	-	3	-
159	Pput_2902	gjl148548114	-	oxidoreductase FAD-binding subunit	5.79	38266.35	-	-	110	-	-	-	8	-	-	-	3	-
160	Pput_1932	gjl148547157	-	alcohol dehydrogenase	5.5	35401.1	-	-	278	-	-	-	22.3	-	-	-	6	-
161	Pput_1667	gjl148546905	-	dihydroliipoamide dehydrogenase	5.93	49925.1	-	-	98	-	-	-	5	-	-	-	2	-
162	Pput_2881	gjl148548094	<i>todC1</i>	ring hydroxylating dioxygenase, alpha subunit	5.27	50911.76	-	-	107	-	-	-	5.1	-	-	-	2	-
163	Pput_2878	gjl148548091	<i>todA</i>	FAD-dependent pyridine nucleotide-disulphide oxidoreductase	5.15	42784.29	-	-	673	-	-	-	21.5	-	-	-	18	-
164	Pput_1825	gjl148547060	-	ATP-dependent Clp protease, ATP-binding subunit clpA	5.59	83286.59	-	-	91	-	-	-	2.8	-	-	-	2	-
165	Pput_2900	gjl148548112	-	propionyl-CoA synthetase	5.73	71373.58	-	-	459	-	-	-	22.2	-	-	-	17	-
166	Pput_2900	gjl148548112	-	propionyl-CoA synthetase	5.73	71373.58	-	-	693	-	-	-	23	-	-	-	19	-
167	Pput_2904	gjl148548116	-	aldehyde dehydrogenase	5.89	53135.27	-	-	539	-	-	-	30	-	-	-	16	-
168	Pput_2904	gjl148548116	-	aldehyde dehydrogenase	5.89	53135.27	-	-	989	-	-	-	37.7	-	-	-	23	-
169	Pput_1663	gjl148546901	<i>sdhA</i>	succinate dehydrogenase flavoprotein subunit	5.83	63408.84	-	-	347	-	-	-	16.6	-	-	-	9	-
170	Pput_4363	gjl148549568	<i>groEL</i>	chaperonin GroEL	4.97	56693.68	-	-	347	-	-	-	19.8	-	-	-	10	-
171	nd	nd	nd	nd	nd	nd	-	nd	-	-	-	nd	-	-	-	nd	-	-
172	nd	nd	nd	nd	nd	nd	-	nd	-	-	-	nd	-	-	-	nd	-	-
173	Pput_2875	gjl148548088	<i>todG</i>	4-oxalocrotonate decarboxylase	4.9	28221.78	-	592	880	-	-	45.9	51.9	-	-	13	16	-
174	Pput_2874	gjl148548087	<i>todI</i>	acetaldehyde dehydrogenase	5.84	33663.45	-	-	110	-	-	-	7	-	-	-	2	-
175	Pput_2877	gjl148548090	<i>todD</i>	2,3-dihydroxy-2,3-dihydrophenylpropionate dehydrogenase	5.29	28763.94	-	852	639	806	-	54.9	41.5	41.5	-	16	14	15
176	Pput_0598	gjl148545848	-	acetyl-CoA carboxylase biotin carboxyl carrier protein subunit	4.95	16175.35	214	-	-	-	17.6	-	-	-	6	-	-	

193	Pput_1666	gij148546904		dihydrolipoamide succinyltransferase	5.2	42410.11	-	-	468	-	-	-	26.5	-	-	-	16	-
194	Pput_4363	gij148549568	<i>groES</i>	chaperonin GroEL	4.97	56693.68	-	-	1224	-	-	-	36.1	-	-	-	44	-
195	Pput_4363	gij148549568	<i>groES</i>	chaperonin GroEL	4.97	56693.68	-	-	1989	-	-	-	46	-	-	-	64	-
196	Pput_1822	gij148547057		isocitrate dehydrogenase, NADP-dependent	5.54	45675.49	-	-	413	-	-	-	28.2	-	-	-	18	-
197	Pput_1693	gij148546931		3-oxoacyl-(acyl carrier protein) synthase I	5.42	43235.66	-	-	354	-	-	-	18	-	-	-	9	-
198	Pput_4590	gij148549792		carbamoyl phosphate synthase small subunit	5.48	41561.28	-	-	143	-	-	-	10.6	-	-	-	4	-
199	Pput_4542	gij148549744		ketol-acid reductoisomerase	5.48	36347.35	-	-	597	-	-	-	36.1	-	-	-	22	-
200	Pput_1663	gij148546901	<i>sdhA</i>	succinate dehydrogenase flavoprotein subunit	5.83	63408.84	-	-	826	-	-	-	26.9	-	-	-	27	-
201	Pput_3433	gij148548641	<i>prpF</i>	putative AcnD-accessory protein PrpF	5.32	41401.27	-	-	440	-	-	-	32.6	-	-	-	11	-