

**Supplementary Table 1: The complete list of the genes with a significant transcription fold change being regulated by DSF in *S. maltophilia* R551-3**

The minus sign before fold changes corresponds to down regulation of the corresponding genes in the *rpfF* mutant strain.

<b>locus tag</b>	<b>fold change</b>	<b>(putative) product</b> <b>wild-type/<i>rpfF</i> mutant</b>
SmaI_0012	2.26	phospholipase D/transphosphatidylase
SmaI_0013	3.62	hypothetical protein
SmaI_0014	1.51	pyridoxine 5'-phosphate synthase
SmaI_0018	4.52	hypothetical protein
SmaI_0022	2.26	TonB-dependent receptor
SmaI_0023	13.72	hypothetical protein
SmaI_0025	0.36	Ku protein
SmaI_0027	0.18	hypothetical protein
SmaI_0030	0.30	cysteine dioxygenase type I
SmaI_0031	1.56	LacI family transcriptional regulator
SmaI_0036	1.51	hypothetical protein
SmaI_0037	1.71	TonB-dependent receptor
SmaI_0038	0.23	acid phosphatase
SmaI_0040	-4.34	hypothetical protein
SmaI_0043	42.65	hypothetical protein
SmaI_0044	2.11	hypothetical protein
SmaI_0045	2.71	formamidopyrimidine-DNA glycosylase
SmaI_0047	2.20	thymidine kinase
SmaI_0049	3.16	Sel1 domain-containing protein repeat-containing protein
SmaI_0051	2.11	acetyltransferase
SmaI_0052	1.81	hypothetical protein
SmaI_0055	1.81	hypothetical protein
SmaI_0056	1.57	glycerol-3-phosphate acyltransferase
SmaI_0057	23.25	hypothetical protein
SmaI_0060	2.71	hypothetical protein
SmaI_0061	1.81	hypothetical protein
SmaI_0066	-4.93	hypothetical protein
SmaI_0067	3.62	hypothetical protein
SmaI_0068	-9.44	short-chain dehydrogenase/reductase SDR
SmaI_0069	0.45	hypothetical protein
SmaI_0070	1.81	hypothetical protein
SmaI_0071	0.30	beta-lactamase

SmaI_0072	-11.02	AraC family transcriptional regulator
SmaI_0074	1.81	major facilitator superfamily protein
SmaI_0075	0.23	TonB-dependent receptor
SmaI_0076	12.23	CopY family transcriptional repressor
SmaI_0077	2.37	peptidase M56 BlaR1
SmaI_0078	0.45	lipoprotein
SmaI_0081	1.58	hypothetical protein
SmaI_0082	2.71	hypothetical protein
SmaI_0085	2.71	hypothetical protein
SmaI_0090	2.36	peptidase U62 modulator of DNA gyrase
SmaI_0092	30.75	hypothetical protein
SmaI_0096	1.88	hypothetical protein
SmaI_0097	0.45	ATPase AAA
SmaI_0098	1.62	partition protein
SmaI_0102	3.16	thioesterase superfamily protein
SmaI_0104	6.33	hypothetical protein
SmaI_0105	1.89	hypothetical protein
SmaI_0110	0.34	nitrogen regulatory protein P-II
SmaI_0111	1.66	ammonium transporter
SmaI_0114	5.43	hypothetical protein
SmaI_0116	1.81	LytTR family two component transcriptional regulator
SmaI_0118	0.30	alpha/beta hydrolase fold domain-containing protein
SmaI_0120	3.32	hypothetical protein
SmaI_0124	2.55	copper/zinc binding superoxide dismutase
SmaI_0129	1.66	HemY domain-containing protein
SmaI_0131	0.30	uroporphyrinogen-III synthase
SmaI_0134	1.91	rhodanese domain-containing protein
SmaI_0146	1.81	Glyoxalase/bleomycin resistance protein/dioxygenase
SmaI_0148	0.18	hypothetical protein
SmaI_0155	22.20	two component LuxR family transcriptional regulator
SmaI_0157	1.51	cytochrome c class I
SmaI_0158	1.70	electron-transferring-flavoprotein dehydrogenase
SmaI_0161	-82.34	carboxymuconolactone decarboxylase
SmaI_0162	0.30	4-oxalocrotonate tautomerase
SmaI_0164	19.83	hypothetical protein
SmaI_0167	1.71	3-oxoacyl-ACP synthase
SmaI_0168	1.63	alpha/beta hydrolase fold domain-containing protein
SmaI_0169	-12.28	hypothetical protein

SmaI_0178	2.11	hypothetical protein
SmaI_0179	2.45	peptidyl-tRNA hydrolase domain-containing protein
SmaI_0182	-11.70	3-dehydroquinate dehydratase
SmaI_0183	11.77	hypothetical protein
SmaI_0186	0.26	LysR family transcriptional regulator
SmaI_0187	0.45	LysR family transcriptional regulator
SmaI_0188	0.36	malate synthase
SmaI_0190	2.26	cyclic nucleotide-binding protein
SmaI_0195	0.28	hypothetical protein
SmaI_0199	0.13	TetR family transcriptional regulator
SmaI_0202	0.30	hypothetical protein
SmaI_0203	2.35	hypothetical protein
SmaI_0208	37.17	lysine exporter protein LysE/YggA
SmaI_0210	0.30	NAD-dependent deacetylase
SmaI_0212	0.45	LysR family transcriptional regulator
SmaI_0214	0.18	nicotinamidase
SmaI_0215	0.26	hypothetical protein
SmaI_0217	3.62	hypothetical protein
SmaI_0220	1.51	acyl-CoA dehydrogenase domain-containing protein
SmaI_0222	1.54	enoyl-CoA hydratase/isomerase
SmaI_0224	1.96	OsmC family protein
SmaI_0228	1.61	hypothetical protein
SmaI_0235	1.81	sporulation domain-containing protein
SmaI_0236	5.43	addiction module killer protein
SmaI_0237	-86.43	putative transcriptional regulator
SmaI_0238	1.61	arginase
SmaI_0239	0.36	entericidin EcnAB
SmaI_0243	-51.86	hypothetical protein
SmaI_0246	-59.15	hypothetical protein
SmaI_0248	0.26	hypothetical protein
SmaI_0249	2.03	RarD protein, DMT superfamily transporter
SmaI_0251	0.45	hypothetical protein
SmaI_0252	3.62	hypothetical protein
SmaI_0253	0.23	ABC transporter-like protein
SmaI_0254	11.30	RND family efflux transporter MFP subunit
SmaI_0255	4.52	ABC transporter-like protein
SmaI_0260	0.45	Catalase domain-containing protein
SmaI_0265	2.41	hypothetical protein

SmaI_0266	2.66	hypothetical protein
SmaI_0270	0.30	hypothetical protein
SmaI_0274	0.26	hypothetical protein
SmaI_0281	6.71	DNA repair protein RadC
SmaI_0283	-16.68	two component LuxR family transcriptional regulator
SmaI_0288	0.30	osmosensitive K <sup>+</sup> channel signal transduction histidine kinase
SmaI_0289	1.81	potassium-transporting ATPase subunit C
SmaI_0291	-15.27	potassium-transporting ATPase subunit A
SmaI_0292	0.45	hypothetical protein
SmaI_0293	2.51	hypothetical protein
SmaI_0300	2.01	tyrosyl-tRNA synthetase
SmaI_0303	1.64	peptidase M23
SmaI_0304	1.60	carboxyl-terminal protease
SmaI_0307	2.71	nicotinamide mononucleotide transporter PnuC
SmaI_0311	1.55	cytochrome c oxidase subunit I
SmaI_0312	40.52	hypothetical protein
SmaI_0313	1.81	cytochrome C oxidase assembly protein
SmaI_0314	1.58	cytochrome c oxidase subunit III
SmaI_0315	0.45	hypothetical protein
SmaI_0316	6.48	hypothetical protein
SmaI_0321	1.81	bile acid:sodium symporter
SmaI_0329	1.58	dihydroneopterin aldolase
SmaI_0331	2.05	glycoside hydrolase family 3
SmaI_0335	14.35	hypothetical protein
SmaI_0337	2.71	hypothetical protein
SmaI_0339	0.11	mandelate racemase/muconate lactonizing protein
SmaI_0342	0.45	TonB-dependent receptor plug
SmaI_0344	3.62	peptidase M15D vanX D-ala-D-ala dipeptidase
SmaI_0353	2.71	hypothetical protein
SmaI_0356	1.81	hypothetical protein
SmaI_0362	17.00	hypothetical protein
SmaI_0364	1.54	PadR-like family transcriptional regulator
SmaI_0367	-56.74	hypothetical protein
SmaI_0368	8.17	TonB family protein
SmaI_0370	48.17	hypothetical protein
SmaI_0372	3.44	hypothetical protein
SmaI_0382	16.42	hypothetical protein
SmaI_0386	0.45	hypothetical protein

SmaI_0387	-12.91	alpha/beta hydrolase fold domain-containing protein
SmaI_0389	3.01	hypothetical protein
SmaI_0391	0.45	polysaccharide deacetylase
SmaI_0392	6.33	hypothetical protein
SmaI_0393	-15.77	hypothetical protein
SmaI_0394	-25.10	hypothetical protein
SmaI_0397	2.71	hypothetical protein
SmaI_0398	1.81	hypothetical protein
SmaI_0399	0.45	cobalamin synthesis protein P47K
SmaI_0400	0.45	ABC transporter-like protein
SmaI_0402	-4.43	beta-lactamase
SmaI_0403	1.81	major facilitator superfamily protein
SmaI_0404	0.45	EAL domain-containing protein
SmaI_0410	11.43	DGPFAETKE family protein
SmaI_0413	-14.66	hypothetical protein
SmaI_0414	0.45	putative ECF subfamily RNA polymerase sigma-24 subunit
SmaI_0420	0.45	signal transduction histidine kinase LytS
SmaI_0421	-27.12	LytTR family two component transcriptional regulator
SmaI_0422	13.72	hypothetical protein
SmaI_0424	5.43	hypothetical protein
SmaI_0425	8.04	TetR family transcriptional regulator
SmaI_0426	0.45	major facilitator superfamily protein
SmaI_0427	-26.72	major facilitator superfamily protein
SmaI_0429	0.20	PAS/PAC sensor-containing diguanylate cyclase/phosphodiesterase
SmaI_0430	-23.70	LysR family transcriptional regulator
SmaI_0431	-38.20	DoxX family protein
SmaI_0435	1.58	hypothetical protein
SmaI_0436	6.33	hypothetical protein
SmaI_0440	2.34	methionine sulfoxide reductase B
SmaI_0441	1.81	hypothetical protein
SmaI_0442	0.45	hypothetical protein
SmaI_0447	2.11	PAS/PAC sensor hybrid histidine kinase
SmaI_0449	35.90	hypothetical protein
SmaI_0451	1.70	pseudouridine synthase
SmaI_0455	2.71	DNA polymerase IV
SmaI_0457	0.30	NAD-dependent epimerase/dehydratase
SmaI_0458	0.30	LysR family transcriptional regulator
SmaI_0463	0.50	TfoX domain-containing protein

SmaI_0464	0.39	putative GAF sensor protein
SmaI_0465	0.18	dithiobiotin synthetase
SmaI_0466	1.96	GntR family transcriptional regulator
SmaI_0468	2.67	cytochrome c biogenesis protein transmembrane region
SmaI_0470	0.45	winged helix family two component transcriptional regulator
SmaI_0472	0.42	integral membrane sensor signal transduction histidine kinase
SmaI_0482	2.98	maleylacetoacetate isomerase
SmaI_0483	2.17	twitching motility protein
SmaI_0485	2.53	OmpA/MotB domain-containing protein
SmaI_0497	1.66	hypothetical protein
SmaI_0512	-64.61	GtrA family protein
SmaI_0513	0.34	hypothetical protein
SmaI_0514	1.81	hypothetical protein
SmaI_0515	3.01	hypothetical protein
SmaI_0517	1.65	3-oxoacid CoA-transferase subunit A
SmaI_0520	2.26	2OG-Fe(II) oxygenase
SmaI_0524	1.81	hypothetical protein
SmaI_0526	2.14	histone family protein nucleoid-structuring protein H-NS
SmaI_0529	0.49	CDP-diacylglycerol/serine O-phosphatidyltransferase
SmaI_0534	0.27	hypothetical protein
SmaI_0537	2.11	YjgP/YjgQ family permease
SmaI_0539	19.23	RDD domain-containing protein
SmaI_0540	1.58	site-specific tyrosine recombinase XerD
SmaI_0544	0.40	YadA domain-containing protein
SmaI_0546	2.03	general secretory pathway protein E
SmaI_0549	4.52	general secretion pathway protein H
SmaI_0552	-30.24	General secretion pathway protein K
SmaI_0558	0.49	family 2 glycosyl transferase
SmaI_0567	0.18	bacteriophage N4 adsorption protein B
SmaI_0572	1.81	hypothetical protein
SmaI_0577	0.45	riboflavin biosynthesis protein RibD
SmaI_0579	1.81	hypothetical protein
SmaI_0581	2.09	riboflavin synthase subunit alpha
SmaI_0582	1.70	3,4-dihydroxy-2-butanone 4-phosphate synthase
SmaI_0587	3.01	FAD linked oxidase domain-containing protein
SmaI_0588	2.71	membrane-bound metal-dependent hydrolase
SmaI_0591	1.81	uroporphyrin-III C/tetrapyrrole (Corrin/Porphyrin) methyltransferase
SmaI_0592	1.81	hypothetical protein

SmaI_0595	1.66	S-adenosyl-methyltransferase <i>MraW</i>
SmaI_0602	2.06	undecaprenyldiphospho-muramoylpentapeptide beta-N- acetylglucosaminyltransferase
SmaI_0612	1.81	hypothetical protein
SmaI_0614	0.38	5,10-methylenetetrahydrofolate reductase
SmaI_0615	-5.64	alpha/beta hydrolase fold domain-containing protein
SmaI_0616	9.00	signal transduction histidine kinase <i>LytS</i>
SmaI_0617	-14.28	<i>LytTR</i> family two component transcriptional regulator
SmaI_0619	2.11	integral membrane sensor signal transduction histidine kinase
SmaI_0622	1.81	hypothetical protein
SmaI_0624	0.45	hypothetical protein
SmaI_0625	-55.18	<i>ybaK/ebcC</i> protein
SmaI_0627	1.53	peptidase S9 prolyl oligopeptidase active site domain-containing protein
SmaI_0631	0.23	phospholipid/glycerol acyltransferase
SmaI_0632	-6.53	metallophosphoesterase
SmaI_0633	1.81	membrane-bound metal-dependent hydrolase
SmaI_0635	1.81	hypothetical protein
SmaI_0641	1.51	Ribokinase
SmaI_0645	3.16	TonB-dependent hemoglobin/transferrin/lactoferrin family receptor
SmaI_0646	-8.71	hypothetical protein
SmaI_0648	2.71	hypothetical protein
SmaI_0649	1.51	hypothetical protein
SmaI_0650	0.30	ABC transporter-like protein
SmaI_0654	0.23	G-D-S-L family lipolytic protein
SmaI_0655	0.23	diacylglycerol kinase
SmaI_0657	8.14	major facilitator superfamily protein
SmaI_0658	38.07	<i>LemA</i> family protein
SmaI_0659	0.30	hypothetical protein
SmaI_0663	1.64	hypothetical protein
SmaI_0664	0.50	Dihydrofolate reductase
SmaI_0665	2.26	hypothetical protein
SmaI_0666	3.26	diadenosine tetraphosphatase
SmaI_0668	1.96	dimethyladenosine transferase
SmaI_0674	2.71	hypothetical protein
SmaI_0677	3.62	hypothetical protein
SmaI_0679	0.27	zinc-binding CMP/dCMP deaminase
SmaI_0680	1.51	hypothetical protein
SmaI_0681	0.49	hypothetical protein
SmaI_0684	1.51	methionine sulfoxide reductase A

SmaI_0690	5.51	protein-(glutamine-N5) methyltransferase
SmaI_0692	1.51	LysR family transcriptional regulator
SmaI_0695	2.26	N-formylglutamate amidohydrolase
SmaI_0697	1.51	5'-3' exonuclease
SmaI_0698	1.81	nitroreductase
SmaI_0703	7.23	RNA polymerase factor sigma-70
SmaI_0705	1.99	NAD(P)(+) transhydrogenase
SmaI_0709	2.11	hypothetical protein
SmaI_0710	3.16	ArsR family transcriptional regulator
SmaI_0714	42.27	hypothetical protein
SmaI_0715	2.71	flavoprotein WrbA
SmaI_0716	0.32	ribonuclease BN/unknown domain fusion protein
SmaI_0721	1.51	peptide chain release factor 1
SmaI_0724	0.45	outer membrane lipoprotein LolB
SmaI_0729	1.87	GTP-dependent nucleic acid-binding protein EngD
SmaI_0730	25.94	hypothetical protein
SmaI_0732	3.62	hypothetical protein
SmaI_0733	1.81	hypothetical protein
SmaI_0735	2.03	two component LuxR family transcriptional regulator
SmaI_0737	1.81	response regulator receiver modulated diguanylate phosphodiesterase
SmaI_0791	2.71	pseudouridine synthase
SmaI_0798	-16.29	hypothetical protein
SmaI_0799	2.11	zinc-binding alcohol dehydrogenase family protein
SmaI_0801	0.27	hypothetical protein
SmaI_0806	1.70	L-threonine 3-dehydrogenase
SmaI_0811	1.75	colicin V production protein
SmaI_0814	1.58	rhs element Vgr protein
SmaI_0815	2.11	peptidyl-Asp metalloendopeptidase
SmaI_0816	1.71	UDP-2,3-diacetylglucosamine hydrolase
SmaI_0817	-9.68	PA-phosphatase-like phosphoesterase
SmaI_0819	4.84	TonB-dependent receptor plug
SmaI_0828	1.52	isocitrate dehydrogenase
SmaI_0830	10.40	LysR family transcriptional regulator
SmaI_0831	-13.72	hypothetical protein
SmaI_0832	0.23	hypothetical protein
SmaI_0834	12.83	hypothetical protein
SmaI_0839	1.50	histone family protein DNA-binding protein
SmaI_0843	1.81	hypothetical protein



SmaI_0846	2.03	protein serine/threonine phosphatase
SmaI_0848	1.81	hypothetical protein
SmaI_0851	1.81	beta-lactamase domain-containing protein
SmaI_0852	0.20	hypothetical protein
SmaI_0853	1.51	small multidrug resistance protein
SmaI_0855	0.45	N-acetyltransferase GCN5
SmaI_0859	0.40	recombination protein RecR
SmaI_0860	1.96	histidine triad (HIT) protein
SmaI_0863	3.16	hypothetical protein
SmaI_0864	1.55	ATPase
SmaI_0866	16.59	maf protein
SmaI_0875	2.49	hypothetical protein
SmaI_0876	2.81	aminodeoxychorismate lyase
SmaI_0878	1.96	DNA polymerase III subunit delta'
SmaI_0880	1.81	4-oxalocrotonate tautomerase
SmaI_0881	2.71	late control D family protein
SmaI_0882	1.81	tail X family protein
SmaI_0883	2.71	P2 GpU family protein
SmaI_0886	0.30	phage major tail tube protein
SmaI_0888	-15.84	hypothetical protein
SmaI_0889	1.73	hypothetical protein
SmaI_0890	-16.05	phage tail protein I
SmaI_0891	0.15	baseplate J family protein
SmaI_0892	6.33	GPW/gp25 family protein
SmaI_0893	1.81	phage baseplate assembly protein V
SmaI_0894	0.23	hypothetical protein
SmaI_0896	9.73	lysozyme
SmaI_0897	13.49	hypothetical protein
SmaI_0898	10.51	hypothetical protein
SmaI_0899	0.36	hypothetical protein
SmaI_0900	1.81	hypothetical protein
SmaI_0901	-23.00	hypothetical protein
SmaI_0902	-18.98	hypothetical protein
SmaI_0903	0.45	virulence-associated E family protein
SmaI_0906	35.85	hypothetical protein
SmaI_0907	0.30	TonB-dependent siderophore receptor
SmaI_0908	1.81	PepSY-associated TM helix domain-containing protein
SmaI_0911	2.26	pentapeptide repeat-containing protein

SmaI_0914	2.71	hypothetical protein
SmaI_0915	0.45	LysR family transcriptional regulator
SmaI_0916	1.81	major facilitator superfamily protein
SmaI_0917	0.30	TonB-dependent siderophore receptor
SmaI_0918	0.45	integral membrane sensor signal transduction histidine kinase
SmaI_0919	1.81	winged helix family two component transcriptional regulator
SmaI_0923	0.45	hypothetical protein
SmaI_0924	0.14	hypothetical protein
SmaI_0925	17.65	major facilitator superfamily protein
SmaI_0926	2.71	MerR family transcriptional regulator
SmaI_0927	1.81	short chain dehydrogenase
SmaI_0928	-17.90	LysR family transcriptional regulator
SmaI_0929	2.11	pyrroline-5-carboxylate reductase
SmaI_0933	4.52	aldo/keto reductase
SmaI_0936	0.30	N-acetyltransferase GCN5
SmaI_0941	1.94	Holliday junction resolvase-like protein
SmaI_0942	1.71	aspartate carbamoyltransferase catalytic subunit
SmaI_0943	9.61	hypothetical protein
SmaI_0945	0.36	hypothetical protein
SmaI_0959	2.86	KpsF/GutQ family protein
SmaI_0960	1.73	BolA family protein
SmaI_0965	0.13	phosphoribosylglycinamide formyltransferase
SmaI_0967	-24.74	hypothetical protein
SmaI_0983	3.32	flavodoxin/nitric oxide synthase
SmaI_0984	9.72	ApbE family lipoprotein
SmaI_0985	4.22	hypothetical protein
SmaI_0986	-20.15	hypothetical protein
SmaI_0987	0.45	PepSY-associated TM helix domain-containing protein
SmaI_0989	23.03	hypothetical protein
SmaI_0991	1.51	Sel1 domain-containing protein repeat-containing protein
SmaI_0993	-38.76	hypothetical protein
SmaI_1005	0.30	hypothetical protein
SmaI_1006	1.81	hypothetical protein
SmaI_1008	2.26	OsmC family protein
SmaI_1009	2.26	phenazine biosynthesis protein PhzF family
SmaI_1010	0.23	phenazine biosynthesis protein PhzF family
SmaI_1014	2.71	hypothetical protein
SmaI_1017	-6.47	alpha amylase catalytic protein

SmaI_1019	4.60	alpha-glucosidase
SmaI_1020	0.45	hypothetical protein
SmaI_1021	0.30	major facilitator superfamily protein
SmaI_1024	0.30	N-acetyltransferase GCN5
SmaI_1027	16.45	hypothetical protein
SmaI_1032	0.45	LacI family transcriptional regulator
SmaI_1038	0.45	hypothetical protein
SmaI_1039	-7.17	short-chain dehydrogenase/reductase SDR
SmaI_1041	1.81	Xylose isomerase domain-containing protein
SmaI_1044	-42.15	hypothetical protein
SmaI_1045	-17.64	cytochrome c class I
SmaI_1046	1.81	Xylose isomerase domain-containing protein
SmaI_1047	4.07	oxidoreductase domain-containing protein
SmaI_1048	0.34	nucleoside:H symporter
SmaI_1050	1.81	LacI family transcriptional regulator
SmaI_1054	0.30	isocitrate lyase family protein
SmaI_1056	2.11	diguanylate cyclase
SmaI_1058	2.71	hypothetical protein
SmaI_1061	2.03	hypothetical protein
SmaI_1063	-8.98	hypothetical protein
SmaI_1067	2.26	metallophosphoesterase
SmaI_1068	-12.73	hypothetical protein
SmaI_1069	2.71	hypothetical protein
SmaI_1072	-14.66	hypothetical protein
SmaI_1073	1.63	GntR family transcriptional regulator
SmaI_1077	-8.14	phosphoribosyl-dephospho-CoA transferase
SmaI_1078	0.45	malonate decarboxylase subunit gamma
SmaI_1079	3.01	malonate decarboxylase subunit beta
SmaI_1082	-2.38	TonB-dependent siderophore receptor
SmaI_1083	0.50	malate:quinone oxidoreductase
SmaI_1084	-70.23	N-acetyltransferase GCN5
SmaI_1089	-18.19	hypothetical protein
SmaI_1090	1.81	OPT family oligopeptide transporter
SmaI_1092	2.71	hypothetical protein
SmaI_1096	1.65	septum formation inhibitor
SmaI_1098	2.71	integral membrane sensor signal transduction histidine kinase
SmaI_1099	1.66	two component LuxR family transcriptional regulator
SmaI_1102	0.23	peptidase M15B and M15C DD-carboxypeptidase VanY/endolysin

Smal_1104	-29.16	hypothetical protein
Smal_1105	-29.16	hypothetical protein
Smal_1106	0.45	hypothetical protein
Smal_1107	1.96	phosphoribosylglycinamide formyltransferase 2
Smal_1109	2.03	arginyl-tRNA-protein transferase
Smal_1110	8.38	hypothetical protein
Smal_1111	0.36	ECF subfamily RNA polymerase sigma-24 subunit
Smal_1114	8.14	enoyl-CoA hydratase/isomerase
Smal_1119	1.64	50S ribosomal protein L21
Smal_1120	1.52	50S ribosomal protein L27
Smal_1129	1.81	hypothetical protein
Smal_1130	2.26	hypothetical protein
Smal_1131	0.30	hypothetical protein
Smal_1132	0.39	TonB-dependent receptor plug
Smal_1136	2.71	NAD-binding D-isomer specific 2-hydroxyacid dehydrogenase
Smal_1139	3.62	hypothetical protein
Smal_1144	3.16	diguanylate cyclase/phosphodiesterase
Smal_1148	0.45	hypothetical protein
Smal_1149	1.51	cytochrome c assembly protein
Smal_1151	1.81	2-nitropropane dioxygenase
Smal_1154	1.95	16S rRNA-processing protein RimM
Smal_1155	1.63	tRNA (guanine-N(1)-)-methyltransferase
Smal_1158	0.23	hypothetical protein
Smal_1160	0.23	MATE efflux family protein
Smal_1164	2.49	hypothetical protein
Smal_1168	36.13	putative barnase inhibitor
Smal_1176	7.61	lysine exporter protein LysE/YggA
Smal_1177	2.71	hypothetical protein
Smal_1184	2.51	2,3-diketo-5-methylthio-1-phosphopentane phosphatase
Smal_1185	0.36	DegT/DnrJ/EryC1/StrS aminotransferase
Smal_1186	0.23	hypothetical protein
Smal_1188	0.50	alpha/beta hydrolase fold domain-containing protein
Smal_1189	1.51	integral membrane sensor signal transduction histidine kinase
Smal_1191	5.43	metallophosphoesterase
Smal_1192	0.45	HxIR family transcriptional regulator
Smal_1193	1.81	major facilitator superfamily protein
Smal_1198	1.50	phosphoglyceromutase
Smal_1200	0.18	metal dependent phosphohydrolase

SmaI_1203	4.52	hypothetical protein
SmaI_1207	2.71	hypothetical protein
SmaI_1208	1.68	peptidase M28
SmaI_1212	0.45	major facilitator superfamily protein
SmaI_1214	0.49	TonB-dependent receptor
SmaI_1217	1.58	Nucleotide diphosphatase
SmaI_1218	-21.26	methylated-DNA--protein-cysteine methyltransferase
SmaI_1219	1.81	AraC family transcriptional regulator
SmaI_1222	3.62	hypothetical protein
SmaI_1224	0.27	hypothetical protein
SmaI_1226	2.11	PAS/PAC sensor-containing diguanylate cyclase/phosphodiesterase
SmaI_1227	1.51	diguanylate cyclase
SmaI_1229	0.10	diguanylate cyclase
SmaI_1230	1.66	SMC domain-containing protein
SmaI_1231	1.51	hypothetical protein
SmaI_1232	5.81	hypothetical protein
SmaI_1233	-11.78	Glyoxalase/bleomycin resistance protein/dioxygenase
SmaI_1234	0.39	beta-lactamase
SmaI_1235	1.60	ABC transporter-like protein
SmaI_1236	0.45	glucose-1-phosphatase/inositol phosphatase
SmaI_1238	39.78	glutathione-dependent formaldehyde-activating protein
SmaI_1242	0.45	hypothetical protein
SmaI_1248	2.26	hypothetical protein
SmaI_1249	1.68	acetyl-CoA carboxylase carboxyltransferase subunit alpha
SmaI_1252	0.36	Ribonuclease H
SmaI_1264	1.67	diguanylate cyclase
SmaI_1267	0.45	pili assembly chaperone
SmaI_1268	1.81	hypothetical protein
SmaI_1271	-14.22	pili assembly chaperone
SmaI_1272	0.15	Spore coat U domain-containing protein
SmaI_1279	0.15	Sel1 domain-containing protein repeat-containing protein
SmaI_1282	1.81	peptidase S45 penicillin amidase
SmaI_1286	0.30	MarR family transcriptional regulator
SmaI_1288	2.26	secretion protein HlyD family protein
SmaI_1289	1.81	EmrB/QacA subfamily drug resistance transporter
SmaI_1294	0.45	glutathione-dependent formaldehyde-activating protein
SmaI_1296	0.30	NodT family RND efflux system outer membrane lipoprotein
SmaI_1298	0.30	RND family efflux transporter MFP subunit

SmaI_1302	1.53	ribonuclease T
SmaI_1304	-13.83	hypothetical protein
SmaI_1307	-36.92	phosphate uptake regulator PhoU
SmaI_1308	0.45	phosphate transporter ATP-binding protein
SmaI_1309	-12.10	phosphate ABC transporter permease
SmaI_1310	0.18	phosphate ABC transporter permease
SmaI_1311	1.81	phosphate ABC transporter substrate-binding protein
SmaI_1312	4.65	phosphate ABC transporter substrate-binding protein
SmaI_1313	2.71	phosphate-selective porin O and P
SmaI_1315	1.51	hypothetical protein
SmaI_1316	0.45	enoyl-CoA hydratase/isomerase
SmaI_1320	4.52	N-acetylmuramyl-L-alanine amidase, negative regulator of AmpC, AmpD
SmaI_1321	0.45	hypothetical protein
SmaI_1323	2.71	hypothetical protein
SmaI_1325	15.03	hypothetical protein
SmaI_1327	7.34	hypothetical protein
SmaI_1331	7.36	hypothetical protein
SmaI_1336	2.41	hypothetical protein
SmaI_1338	0.45	FAD dependent oxidoreductase
SmaI_1339	0.45	peptidase C26
SmaI_1341	1.51	family 1 extracellular solute-binding protein
SmaI_1343	0.27	spermidine/putrescine ABC transporter ATPase
SmaI_1345	0.30	ornithine carbamoyltransferase
SmaI_1350	-28.12	hypothetical protein
SmaI_1351	0.30	hypothetical protein
SmaI_1355	1.51	ABC transporter-like protein
SmaI_1357	3.11	(dimethylallyl)adenosine tRNA methylthiotransferase
SmaI_1358	7.61	glutathione S-transferase domain-containing protein
SmaI_1360	0.45	Lytic transglycosylase
SmaI_1364	1.55	glutathione S-transferase domain-containing protein
SmaI_1367	4.72	hypothetical protein
SmaI_1369	1.81	hypothetical protein
SmaI_1372	6.33	alkylhydroperoxidase-like protein
SmaI_1375	0.33	short-chain dehydrogenase/reductase SDR
SmaI_1378	1.51	putative type IV pilus assembly protein FimT
SmaI_1380	2.11	hypothetical protein
SmaI_1381	3.16	PilX protein
SmaI_1390	33.72	hypothetical protein

Smal_1395	1.81	DNA internalization-related competence protein ComEC/Rec2
Smal_1397	4.82	biopolymer transport protein ExbD/ToIR
Smal_1398	2.11	lipid A ABC exporter, fused ATPase and inner membrane subunits MsbA
Smal_1399	5.43	tetraacyldisaccharide 4'-kinase
Smal_1400	1.91	3-deoxy-manno-octulosonate cytidyltransferase
Smal_1401	2.07	protein tyrosine phosphatase
Smal_1402	1.58	NHL repeat containing protein
Smal_1406	1.81	hypothetical protein
Smal_1409	1.81	ABC transporter-like protein
Smal_1414	0.30	hypothetical protein
Smal_1415	0.45	ArsR family transcriptional regulator
Smal_1416	0.45	hypothetical protein
Smal_1417	1.81	hypothetical protein
Smal_1418	47.20	hypothetical protein
Smal_1419	0.45	hypothetical protein
Smal_1423	11.77	hypothetical protein
Smal_1430	2.03	BLUF domain-containing protein
Smal_1433	5.43	N-acetyltransferase GCN5
Smal_1435	1.58	FKBP-type peptidylprolyl isomerase
Smal_1436	2.71	hypothetical protein
Smal_1438	1.60	luciferase-like monooxygenase
Smal_1442	1.76	hypothetical protein
Smal_1444	0.15	peptidase S10 serine carboxypeptidase
Smal_1451	1.91	hypothetical protein
Smal_1453	1.99	cell division protein FtsB
Smal_1462	-5.41	transposase IS116/IS110/IS902 family protein
Smal_1463	2.71	hypothetical protein
Smal_1468	1.81	hypothetical protein
Smal_1470	2.11	tRNA delta(2)-isopentenylpyrophosphate transferase
Smal_1474	0.32	2-polyprenylphenol 6-hydroxylase
Smal_1479	0.36	carbon starvation protein CstA
Smal_1480	0.49	TonB-dependent receptor
Smal_1482	2.17	TonB-dependent siderophore receptor
Smal_1484	0.30	TonB-dependent receptor plug
Smal_1486	-7.69	hypothetical protein
Smal_1487	2.71	hypothetical protein
Smal_1488	0.15	2-oxoacid dehydrogenase subunit E1
Smal_1493	2.71	alkaline phosphatase

Smal_1501	0.45	TonB-dependent siderophore receptor
Smal_1502	0.18	Pirin domain-containing protein
Smal_1503	2.26	LysR family transcriptional regulator
Smal_1509	1.54	alkyl hydroperoxide reductase
Smal_1510	1.53	amino acid-binding ACT domain-containing protein
Smal_1512	1.96	hypothetical protein
Smal_1514	0.39	sugar transporter
Smal_1519	2.26	hypothetical protein
Smal_1522	1.51	two component Fis family transcriptional regulator
Smal_1526	1.70	two component LuxR family transcriptional regulator
Smal_1527	0.40	keto-hydroxyglutarate-aldolase/keto-deoxy- phosphogluconate aldolase
Smal_1531	1.54	glucose-6-phosphate 1-dehydrogenase
Smal_1533	0.23	folate-binding protein YgfZ
Smal_1540	0.45	hypothetical protein
Smal_1549	0.45	methyltransferase
Smal_1554	2.26	beta-lactamase domain-containing protein
Smal_1556	1.71	uracil phosphoribosyltransferase
Smal_1558	1.81	NHL repeat containing protein
Smal_1559	-15.27	metallophosphoesterase
Smal_1562	4.22	deoxyribodipyrimidine photo-lyase
Smal_1565	4.52	hypothetical protein
Smal_1566	1.81	short-chain dehydrogenase/reductase SDR
Smal_1568	2.71	hydrophobe/amphiphile efflux-1 (HAE1) family transporter
Smal_1569	-7.08	short-chain dehydrogenase/reductase SDR
Smal_1570	0.13	NodT family RND efflux system outer membrane lipoprotein
Smal_1572	1.81	endonuclease/exonuclease/phosphatase
Smal_1573	4.52	cytochrome P450
Smal_1574	-22.12	hypothetical protein
Smal_1575	1.81	LuxR family transcriptional regulator
Smal_1576	0.23	chaperone protein HchA
Smal_1583	-8.39	secretion protein HlyD family protein
Smal_1584	9.95	ABC transporter-like protein
Smal_1585	2.71	abortive infection protein
Smal_1587	1.81	hypothetical protein
Smal_1588	5.43	N-acetyltransferase GCN5
Smal_1590	1.86	SsrA-binding protein
Smal_1591	1.81	cyclase/dehydrase
Smal_1593	1.70	SmpA/OmlA domain-containing protein



Smal_1595	-8.31	G-D-S-L family lipolytic protein
Smal_1605	1.81	prephenate dehydrogenase
Smal_1606	0.30	hypothetical protein
Smal_1609	0.18	hypothetical protein
Smal_1612	2.49	hypothetical protein
Smal_1614	1.81	S-adenosylmethionine--tRNA ribosyltransferase-isomerase
Smal_1618	1.51	preprotein translocase subunit SecF
Smal_1622	6.33	YaeQ family protein
Smal_1623	4.52	pseudouridine synthase
Smal_1624	1.81	hypothetical protein
Smal_1630	-4.84	hypothetical protein
Smal_1631	-11.93	LysR family transcriptional regulator
Smal_1633	4.89	transposase IS116/IS110/IS902 family protein
Smal_1634	0.45	cytochrome c class I
Smal_1637	2.41	acriflavin resistance protein
Smal_1638	0.39	acriflavin resistance protein
Smal_1640	1.67	N-acetyltransferase GCN5
Smal_1642	1.70	Agmatine deiminase
Smal_1643	1.96	hypothetical protein
Smal_1648	1.81	hypothetical protein
Smal_1649	1.64	hypothetical protein
Smal_1660	1.54	hypothetical protein
Smal_1663	-6.68	hypothetical protein
Smal_1664	7.50	lysine exporter protein LysE/YggA
Smal_1668	1.51	potassium efflux system protein
Smal_1674	0.44	hypothetical protein
Smal_1677	26.52	hypothetical protein
Smal_1679	-12.44	ThiJ/Pfpl domain-containing protein
Smal_1680	-14.17	hypothetical protein
Smal_1685	1.81	Activator of Hsp90 ATPase 1 family protein
Smal_1687	-12.44	short chain dehydrogenase
Smal_1688	1.81	AraC family transcriptional regulator
Smal_1692	0.45	AraC family transcriptional regulator
Smal_1693	3.62	TonB-dependent receptor
Smal_1694	-17.97	FMN reductase
Smal_1697	7.03	flavin-dependent oxidoreductase
Smal_1698	-4.28	amidohydrolase
Smal_1699	-9.47	N-acetyltransferase GCN5

Smal_1700	5.41	polar amino acid ABC transporter inner membrane subunit
Smal_1705	2.17	short-chain dehydrogenase/reductase SDR
Smal_1707	0.45	short-chain dehydrogenase/reductase SDR
Smal_1708	1.81	hypothetical protein
Smal_1709	2.26	TetR family transcriptional regulator
Smal_1712	2.26	major facilitator superfamily protein
Smal_1713	1.58	short-chain dehydrogenase/reductase SDR
Smal_1714	5.43	putative acetyltransferase
Smal_1715	1.51	ArsR family transcriptional regulator
Smal_1718	0.45	DoxX family protein
Smal_1722	0.36	hypothetical protein
Smal_1726	0.27	hypothetical protein
Smal_1729	1.96	dihydrodipicolinate synthetase
Smal_1735	2.26	response regulator receiver protein
Smal_1736	4.52	PAS/PAC sensor signal transduction histidine kinase
Smal_1738	2.26	CheR-type MCP methyltransferase
Smal_1740	0.38	response regulator receiver sensor signal transduction histidine kinase
Smal_1743	2.11	hypothetical protein
Smal_1747	1.81	AraC family transcriptional regulator
Smal_1748	2.71	hypothetical protein
Smal_1749	0.34	bifunctional aspartokinase I/homoserine dehydrogenase I
Smal_1751	0.30	threonine synthase
Smal_1757	1.58	histidinol dehydrogenase
Smal_1760	0.23	imidazole glycerol phosphate synthase subunit HisH
Smal_1762	2.35	imidazole glycerol phosphate synthase subunit HisF
Smal_1764	2.03	metallophosphoesterase
Smal_1765	0.45	hypothetical protein
Smal_1766	2.49	glucokinase
Smal_1772	2.71	heavy metal transport/detoxification protein
Smal_1775	1.85	Lacl family transcriptional regulator
Smal_1781	1.58	Acireductone dioxygenase ARD
Smal_1783	0.30	hypothetical protein
Smal_1785	2.20	amino acid permease-associated protein
Smal_1790	2.03	hypothetical protein
Smal_1792	2.11	winged helix family two component transcriptional regulator
Smal_1795	-39.95	hypothetical protein
Smal_1801	0.45	Glyoxalase/bleomycin resistance protein/dioxygenase
Smal_1802	0.39	enoyl-CoA hydratase/isomerase

Smal_1803	1.81	FeoA family protein
Smal_1807	8.12	NAD(P)H dehydrogenase (quinone)
Smal_1808	1.81	MerR family transcriptional regulator
Smal_1810	4.52	dihydrodipicolinate reductase
Smal_1815	0.23	hypothetical protein
Smal_1819	2.41	Vault protein inter-alpha-trypsin domain-containing protein
Smal_1821	2.71	hypothetical protein
Smal_1822	26.17	response regulator receiver protein
<b>Smal_1830</b>	<b>16.30</b>	<b>enoyl-CoA hydratase (rpfF)</b>
Smal_1833	1.71	betaine aldehyde dehydrogenase
Smal_1835	0.34	choline/carnitine/betaine transporter
Smal_1837	42.15	AbrB family transcriptional regulator
Smal_1838	2.58	hypothetical protein
Smal_1840	0.42	TonB family protein
Smal_1841	0.45	TonB family protein
Smal_1842	17.64	alpha/beta hydrolase fold domain-containing protein
Smal_1843	2.71	chemotaxis-specific methylesterase
Smal_1845	2.71	CheR-type MCP methyltransferase
Smal_1846	6.33	methyl-accepting chemotaxis sensory transducer
Smal_1847	1.71	methyl-accepting chemotaxis sensory transducer
Smal_1849	4.52	CheW protein
Smal_1850	1.81	YcgR family protein
Smal_1851	1.81	methyl-accepting chemotaxis sensory transducer
Smal_1853	1.81	response regulator receiver protein
Smal_1855	2.71	CheW protein
Smal_1856	2.71	Cobyrinic acid ac-diamide synthase
Smal_1857	4.07	flagellar motor protein MotD
Smal_1858	9.95	flagellar motor protein
Smal_1859	1.81	CheA signal transduction histidine kinase
Smal_1861	1.81	response regulator receiver protein
Smal_1863	3.16	Cobyrinic acid ac-diamide synthase
Smal_1864	1.66	flagellar biosynthesis regulator FlhF
Smal_1865	2.03	flagellar biosynthesis protein FlhA
Smal_1867	8.86	diguanylate cyclase/phosphodiesterase
Smal_1868	17.90	flagellar biosynthetic protein FliR
Smal_1869	35.10	export protein FliQ family 3
Smal_1870	1.58	flagellar biosynthesis protein FliP
Smal_1872	28.18	flagellar motor switch protein FliN

Smal_1873	2.41	flagellar motor switch protein FliM
Smal_1874	4.52	flagellar basal body-associated protein FliL
Smal_1875	0.45	flagellar hook-length control protein
Smal_1876	2.26	flagellar export protein FliJ
Smal_1877	17.04	FliI/YscN family ATPase
Smal_1878	1.81	flagellar assembly protein FliH
Smal_1879	2.26	flagellar motor switch protein FliG
Smal_1881	12.93	flagellar hook-basal body complex subunit FliE
Smal_1883	1.56	Fis family sigma-54 specific transcriptional regulator
Smal_1884	1.81	response regulator receiver protein
Smal_1885	10.85	RNA polymerase sigma-54 subunit RpoN
Smal_1890	1.81	hypothetical protein
Smal_1891	-50.19	flagellar protein FliS
Smal_1892	2.26	flagellar hook-associated 2 domain-containing protein
Smal_1893	2.95	flagellin
Smal_1894	3.13	flagellin
Smal_1895	2.30	flagellin
Smal_1896	3.01	flagellar hook-associated protein FigL
Smal_1897	3.05	flagellar hook-associated protein FigK
Smal_1898	2.11	flagellar rod assembly protein/muramidase FlgJ
Smal_1903	1.87	flagellar hook protein FlgE
Smal_1906	1.81	flagellar basal body rod protein FlgB
Smal_1907	15.00	response regulator receiver modulated CheW protein
Smal_1908	4.52	flagellar basal body P-ring biosynthesis protein FlgA
Smal_1909	2.41	putative anti-sigma-28 factor FlgM
Smal_1914	6.33	PAS/PAC sensor-containing diguanylate cyclase/phosphodiesterase
Smal_1915	35.83	hypothetical protein
Smal_1916	15.03	hypothetical protein
Smal_1918	1.81	hypothetical protein
Smal_1919	1.81	tRNA-specific 2-thiouridylase MnmA
Smal_1920	1.99	NUDIX hydrolase
Smal_1922	1.51	ATP-dependent Clp protease adaptor protein ClpS
Smal_1926	-38.38	hypothetical protein
Smal_1928	2.26	leucyl/phenylalanyl-tRNA--protein transferase
Smal_1929	3.62	hypothetical protein
Smal_1931	1.58	cell wall hydrolase/autolysin
Smal_1932	1.58	thioredoxin reductase
Smal_1937	4.52	hypothetical protein

Smal_1938	25.24	hypothetical protein
Smal_1939	1.81	putative esterase
Smal_1940	1.51	hypothetical protein
Smal_1942	-5.00	transport system permease
Smal_1946	1.81	hypothetical protein
Smal_1951	4.40	type 11 methyltransferase
Smal_1952	-6.65	hypothetical protein
Smal_1954	3.75	cyclopropane-fatty-acyl-phospholipid synthase
Smal_1956	0.45	amine oxidase
Smal_1957	-5.49	stearoyl-CoA 9-desaturase
Smal_1959	7.58	RNA polymerase sigma factor RpoE
Smal_1961	-38.21	hypothetical protein
Smal_1965	-8.59	NAD(P)H dehydrogenase (quinone)
Smal_1967	0.45	LysR family transcriptional regulator
Smal_1968	1.81	Pirin domain-containing protein
Smal_1971	1.71	putative cointegrate resolution protein T
Smal_1973	0.50	hypothetical protein
Smal_1979	1.81	ArsR family transcriptional regulator
Smal_1981	2.08	arsenical-resistance protein
Smal_1984	-29.38	protein tyrosine phosphatase
Smal_1994	-10.14	OsmC family protein
Smal_1995	6.15	NmrA family protein
Smal_1996	1.81	LysR family transcriptional regulator
Smal_1997	-16.95	ECF subfamily RNA polymerase sigma-24 subunit
Smal_2000	0.45	ECF subfamily RNA polymerase sigma-24 subunit
Smal_2001	0.45	beta-lactamase domain-containing protein
Smal_2002	0.36	hypothetical protein
Smal_2003	0.39	TetR family transcriptional regulator
Smal_2005	1.68	TetR family transcriptional regulator
Smal_2008	1.53	alcohol dehydrogenase zinc-binding domain-containing protein
Smal_2011	0.45	major facilitator superfamily protein
Smal_2012	1.81	aldo/keto reductase
Smal_2013	1.81	cupin
Smal_2015	0.23	PepSY-associated TM helix domain-containing protein
Smal_2016	0.30	TonB-dependent siderophore receptor
Smal_2017	1.81	anti-FecI sigma factor FecR
Smal_2019	13.88	hypothetical protein
Smal_2020	46.05	hypothetical protein

SmaI_2023	0.45	acriflavin resistance protein
SmaI_2024	3.08	outer membrane efflux protein
SmaI_2026	7.20	TetR family transcriptional regulator
SmaI_2028	1.81	hypothetical protein
SmaI_2029	1.81	LacI family transcriptional regulator
SmaI_2032	2.51	PTS system fructose subfamily transporter subunit IIC
SmaI_2033	1.81	carbohydrate-selective porin OprB
SmaI_2034	1.81	beta-Ig-H3/fasciclin
SmaI_2035	0.45	hypothetical protein
SmaI_2036	5.65	peptidase S1 and S6 chymotrypsin/Hap
SmaI_2037	-56.33	hypothetical protein
SmaI_2040	-17.97	FMN reductase
SmaI_2041	0.45	hypothetical protein
SmaI_2042	0.45	5- methyltetrahydropteroyltriglutamate/homocysteine S-methyltransferase
SmaI_2043	0.30	hypothetical protein
SmaI_2045	1.81	Arsenical pump membrane protein
SmaI_2047	5.87	TonB-dependent receptor
SmaI_2049	3.48	multi- copper enzyme maturation ABC transporter permease-like protein
SmaI_2052	60.60	hypothetical protein
SmaI_2053	29.32	hypothetical protein
SmaI_2056	9.40	PHB depolymerase family esterase
SmaI_2058	10.75	alpha/beta hydrolase fold domain-containing protein
SmaI_2059	9.73	MaoC domain-containing protein dehydratase
SmaI_2063	-10.63	hypothetical protein
SmaI_2064	1.70	GntR family transcriptional regulator
SmaI_2065	0.45	TonB-dependent receptor
SmaI_2066	2.26	alginate lyase
SmaI_2068	-8.01	major facilitator superfamily protein
SmaI_2070	2.71	G-D-S-L family lipolytic protein
SmaI_2071	3.62	PfkB domain-containing protein
SmaI_2074	1.81	peptidase S15
SmaI_2076	6.38	DNA/RNA non-specific endonuclease
SmaI_2077	3.62	HAD-superfamily hydrolase
SmaI_2078	41.05	hypothetical protein
SmaI_2080	-2.11	CheR-type MCP methyltransferase
SmaI_2082	2.71	LysR family transcriptional regulator
SmaI_2083	9.08	hypothetical protein
SmaI_2085	35.23	hypothetical protein

SmaI_2086	15.33	hypothetical protein
SmaI_2087	-3.85	Fis family sigma-54 specific transcriptional regulator
SmaI_2088	8.86	hypothetical protein
SmaI_2089	22.95	hypothetical protein
SmaI_2092	-6.97	hypothetical protein
SmaI_2093	10.96	hypothetical protein
SmaI_2095	4.41	NUDIX hydrolase
SmaI_2096	-36.00	RebB protein
SmaI_2097	-19.41	RebB protein
SmaI_2099	-19.19	RebB protein
SmaI_2100	-22.12	hypothetical protein
SmaI_2104	40.00	hypothetical protein
SmaI_2105	0.45	putative sigma-54 specific transcriptional regulator
SmaI_2109	-23.30	protein tyrosine/serine phosphatase
SmaI_2110	-2.27	TonB-dependent receptor
SmaI_2111	-8.11	TetR family transcriptional regulator
SmaI_2112	-8.94	hypothetical protein
SmaI_2114	0.26	PAS/PAC sensor-containing diguanylate cyclase
SmaI_2115	0.41	ABC transporter-like protein
SmaI_2116	0.23	RND family efflux transporter MFP subunit
SmaI_2121	2.71	hypothetical protein
SmaI_2122	-12.49	Siderophore-interacting protein
SmaI_2123	1.51	TonB-dependent siderophore receptor
SmaI_2124	-17.46	hypothetical protein
SmaI_2125	0.36	PepSY-associated TM helix domain-containing protein
SmaI_2126	-18.78	hypothetical protein
SmaI_2127	0.39	hypothetical protein
SmaI_2128	1.81	putative TetR family transcriptional regulator
SmaI_2129	0.49	TonB-dependent siderophore receptor
SmaI_2132	10.85	conjugal transfer protein TrbP
SmaI_2134	-17.46	hypothetical protein
SmaI_2135	2.26	hypothetical protein
SmaI_2138	1.63	integral membrane sensor signal transduction histidine kinase
SmaI_2139	2.41	two component LuxR family transcriptional regulator
SmaI_2140	4.07	hypothetical protein
SmaI_2141	4.03	low temperature requirement A
SmaI_2142	-19.62	hypothetical protein
SmaI_2145	0.36	TonB-dependent receptor

Smal_2146	2.26	beta-lactamase
Smal_2147	0.45	hypothetical protein
Smal_2150	8.81	hypothetical protein
Smal_2152	1.99	TetR family transcriptional regulator
Smal_2154	1.81	hypothetical protein
Smal_2155	-16.84	hypothetical protein
Smal_2158	-7.68	ABC transporter-like protein
Smal_2161	2.16	TonB-dependent receptor
Smal_2166	3.45	heavy metal sensor signal transduction histidine kinase
Smal_2169	3.07	CzcA family heavy metal efflux pump
Smal_2175	1.81	Thioredoxin domain
Smal_2176	2.20	hypothetical protein
Smal_2177	-33.04	hypothetical protein
Smal_2181	2.26	hypothetical protein
Smal_2183	0.30	response regulator receiver protein
Smal_2184	3.25	hypothetical protein
Smal_2185	0.45	hypothetical protein
Smal_2188	37.54	ECF subfamily RNA polymerase sigma-24 subunit
Smal_2193	-13.42	OsmC family protein
Smal_2194	-7.49	ABC transporter-like protein
Smal_2196	5.41	hypothetical protein
Smal_2197	6.73	hypothetical protein
Smal_2198	11.43	biopolymer transport protein ExbD/TolR
Smal_2203	10.58	general secretion pathway protein H
Smal_2205	-17.00	type II secretion system protein J
Smal_2207	3.62	alkaline phosphatase
Smal_2208	0.30	alkaline phosphatase
Smal_2209	0.45	general secretion pathway protein F
Smal_2210	0.45	general secretory pathway protein E
Smal_2211	-8.77	general secretion pathway protein D
Smal_2213	0.45	general secretion pathway protein L
Smal_2214	10.43	General secretion pathway protein K
Smal_2215	54.01	general secretion pathway protein G
Smal_2216	3.62	hypothetical protein
Smal_2217	-9.47	hypothetical protein
Smal_2218	0.45	Fe <sup>2+</sup> -dicitrate sensor, membrane protein
Smal_2220	6.94	Secretin/TonB short domain
Smal_2221	1.81	AsnC family transcriptional regulator



SmaI_2226	0.23	ABC transporter-like protein
SmaI_2227	2.03	molybdate ABC transporter inner membrane subunit
SmaI_2229	1.51	Crp/Fnr family transcriptional regulator
SmaI_2234	1.79	nitrate reductase molybdenum cofactor assembly chaperone
SmaI_2241	1.65	sulfur transfer protein ThiS
SmaI_2245	1.81	ribonucleotide reductase subunit alpha
SmaI_2247	-27.92	hypothetical protein
SmaI_2251	0.34	YD repeat-containing protein
SmaI_2252	-6.57	AraC family transcriptional regulator
SmaI_2253	0.15	fusaric acid resistance protein
SmaI_2255	5.34	secretion protein HlyD family protein
SmaI_2257	1.68	hypothetical protein
SmaI_2258	1.81	hypothetical protein
SmaI_2259	0.30	hypothetical protein
SmaI_2260	7.23	hypothetical protein
SmaI_2261	0.30	hypothetical protein
SmaI_2262	1.81	diacylglycerol kinase
SmaI_2263	1.81	hypothetical protein
SmaI_2264	4.52	hypothetical protein
SmaI_2266	0.45	hypothetical protein
SmaI_2267	-13.85	hypothetical protein
SmaI_2269	-4.50	TonB-dependent receptor
SmaI_2270	19.40	hypothetical protein
SmaI_2271	0.45	short-chain dehydrogenase/reductase SDR
SmaI_2272	2.71	enterobactin synthase subunit F
SmaI_2273	18.37	phosphopantetheine-binding protein
SmaI_2275	-9.48	AMP-dependent synthetase and ligase
SmaI_2278	1.81	inner membrane protein
SmaI_2280	2.71	N-acetyltransferase GCN5
SmaI_2281	0.18	Thioredoxin domain
SmaI_2289	-12.09	TonB-dependent receptor plug
SmaI_2290	0.30	alkyl hydroperoxide reductase
SmaI_2293	5.43	Thioredoxin domain
SmaI_2299	1.64	choline/carnitine/betaine transporter
SmaI_2301	-19.92	ECF subfamily RNA polymerase sigma-24 subunit
SmaI_2302	-11.06	anti-FecI sigma factor FecR
SmaI_2303	0.30	TonB-dependent receptor
SmaI_2304	43.84	small multidrug resistance protein

SmaI_2305	5.43	small multidrug resistance protein
SmaI_2308	1.81	TonB-dependent siderophore receptor
SmaI_2312	1.58	type 11 methyltransferase
SmaI_2313	-86.43	hypothetical protein
SmaI_2315	-2.03	YadA domain-containing protein
SmaI_2317	-54.66	Flp/Fap pilin component
SmaI_2318	-9.58	peptidase A24A prepilin type IV
SmaI_2320	4.55	Flp pilus assembly protein CpaB
SmaI_2321	0.45	type II and III secretion system protein
SmaI_2324	-5.46	type II secretion system protein
SmaI_2325	5.05	type II secretion system protein
SmaI_2327	-23.73	hypothetical protein
SmaI_2330	24.65	hypothetical protein
SmaI_2331	5.73	alpha/beta hydrolase fold domain-containing protein
SmaI_2332	2.86	hypothetical protein
SmaI_2333	3.68	hypothetical protein
SmaI_2334	-5.30	amidohydrolase
SmaI_2335	-12.28	DoxX family protein
SmaI_2340	-23.98	two component LuxR family transcriptional regulator
SmaI_2341	-7.93	BAAT/Acyl-CoA thioester hydrolase
SmaI_2343	0.45	histidine kinase internal region
SmaI_2344	3.62	amidohydrolase
SmaI_2345	6.73	ankyrin
SmaI_2346	3.62	LysR family transcriptional regulator
SmaI_2347	-35.84	hypothetical protein
SmaI_2348	0.30	cytosine deaminase
SmaI_2351	64.96	hypothetical protein
SmaI_2352	3.62	hypothetical protein
SmaI_2353	-5.74	TonB-dependent receptor
SmaI_2355	2.71	CDP-diacylglycerol pyrophosphatase
SmaI_2358	0.49	hypothetical protein
SmaI_2361	1.58	GntR family transcriptional regulator
SmaI_2362	2.11	L-lactate transport
SmaI_2365	14.86	AraC family transcriptional regulator
SmaI_2366	2.53	hypothetical protein
SmaI_2367	5.43	X-Pro dipeptidyl-peptidase domain-containing protein
SmaI_2368	-13.52	hypothetical protein
SmaI_2369	0.45	major facilitator superfamily protein

SmaI_2370	-17.48	LysR family transcriptional regulator
SmaI_2371	1.51	beta-glucosidase
SmaI_2373	-14.83	AraC family transcriptional regulator
SmaI_2376	7.26	DSBA oxidoreductase
SmaI_2377	-31.10	cyclase family protein
SmaI_2378	5.43	cell division inhibitor Sula
SmaI_2379	13.40	DNA repair nucleotidyltransferase/DNA polymerase-like protein
SmaI_2380	0.15	error-prone DNA polymerase
SmaI_2381	2.71	hypothetical protein
SmaI_2387	9.27	ECF subfamily RNA polymerase sigma-24 subunit
SmaI_2388	-5.64	anti-FecI sigma factor FecR
SmaI_2389	0.23	TonB-dependent receptor
SmaI_2390	-19.58	hypothetical protein
SmaI_2391	0.47	TonB family protein
SmaI_2397	0.39	redoxin domain-containing protein
SmaI_2398	4.42	cyclic nucleotide-binding protein
SmaI_2401	0.30	hypothetical protein
SmaI_2403	0.23	N-acetyltransferase GCN5
SmaI_2405	0.30	Pas/Pac sensor-containing methyl-accepting chemotaxis sensory transducer
SmaI_2412	20.89	hypothetical protein
SmaI_2413	1.81	phage shock protein C, PspC
SmaI_2421	2.17	hypothetical protein
SmaI_2423	1.63	mechanosensitive ion channel MscS
SmaI_2424	-28.09	NADH:flavin oxidoreductase
SmaI_2426	1.81	oligoribonuclease
SmaI_2427	4.07	zinc-binding CMP/dCMP deaminase
SmaI_2429	0.45	NAD(P)H dehydrogenase (quinone)
SmaI_2432	1.51	N-acetyltransferase GCN5
SmaI_2433	3.62	hypothetical protein
SmaI_2449	0.45	hypothetical protein
SmaI_2452	3.62	hypothetical protein
SmaI_2456	0.18	hypothetical protein
SmaI_2457	0.30	hypothetical protein
SmaI_2458	2.71	hypothetical protein
SmaI_2461	0.18	TonB-dependent siderophore receptor
SmaI_2463	-7.75	winged helix family two component transcriptional regulator
SmaI_2464	3.62	integral membrane sensor signal transduction histidine kinase
SmaI_2466	1.81	RND family efflux transporter MFP subunit

SmaI_2467	-8.02	ABC transporter-like protein
SmaI_2470	-26.50	hypothetical protein
SmaI_2476	0.23	hypothetical protein
SmaI_2477	1.81	hypothetical protein
SmaI_2479	0.49	hypothetical protein
SmaI_2483	0.45	hypothetical protein
SmaI_2484	1.81	hypothetical protein
SmaI_2485	1.60	hypothetical protein
SmaI_2486	-15.63	hypothetical protein
SmaI_2488	8.42	carbohydrate-binding GenC domain-containing protein
SmaI_2493	12.62	hypothetical protein
SmaI_2496	-20.76	phage protein, HK97 gp10 family
SmaI_2499	10.04	hypothetical protein
SmaI_2501	16.82	peptidase S14 ClpP
SmaI_2502	-12.41	phage portal protein, HK97 family
SmaI_2503	1.81	terminase
SmaI_2505	14.61	HNH endonuclease
SmaI_2507	1.81	hypothetical protein
SmaI_2508	1.81	hypothetical protein
SmaI_2513	-77.14	hypothetical protein
SmaI_2514	-14.19	hypothetical protein
SmaI_2515	6.62	hypothetical protein
SmaI_2517	30.36	hypothetical protein
SmaI_2518	2.71	hypothetical protein
SmaI_2519	0.45	CI repressor
SmaI_2520	2.17	hypothetical protein
SmaI_2521	-27.33	hypothetical protein
SmaI_2525	-13.63	hypothetical protein
SmaI_2526	-20.80	hypothetical protein
SmaI_2530	21.96	phage transcriptional regulator AlpA
SmaI_2531	1.51	hypothetical protein
SmaI_2533	2.26	NAD(P)H dehydrogenase (quinone)
SmaI_2534	0.30	Variant SH3 domain-containing protein
SmaI_2537	1.81	TonB family protein
SmaI_2538	1.88	3-phosphoshikimate 1-carboxyvinyltransferase
SmaI_2542	0.34	polyhydroxyalkanoic acid system protein
SmaI_2547	2.03	transcriptional regulator, histidine utilization repressor, GntR family
SmaI_2553	0.26	beta-lactamase

SmaI_2555	0.14	TonB-dependent receptor
SmaI_2556	17.91	hypothetical protein
SmaI_2557	-13.40	hypothetical protein
SmaI_2558	2.11	hypothetical protein
SmaI_2559	-9.08	TetR family transcriptional regulator
SmaI_2560	8.66	hypothetical protein
SmaI_2561	4.17	Agmatine deiminase
SmaI_2563	2.26	G-D-S-L family lipolytic protein
SmaI_2564	0.18	hypothetical protein
SmaI_2566	1.81	hypothetical protein
SmaI_2568	-47.60	hypothetical protein
SmaI_2573	0.45	beta-lactamase
SmaI_2575	-23.07	LysR family transcriptional regulator
SmaI_2576	2.03	alcohol dehydrogenase zinc-binding domain-containing protein
SmaI_2577	1.51	membrane-bound PQQ-dependent dehydrogenase
SmaI_2580	1.81	hypothetical protein
SmaI_2593	1.81	hypothetical protein
SmaI_2594	4.97	hypothetical protein
SmaI_2595	2.58	FMN-binding negative transcriptional regulator
SmaI_2597	0.30	3-hydroxyanthranilate 3,4-dioxygenase
SmaI_2599	1.96	kynurenine 3-monooxygenase
SmaI_2601	2.26	hypothetical protein
SmaI_2602	2.49	hypothetical protein
SmaI_2604	0.45	inorganic polyphosphate/ATP-NAD kinase
SmaI_2619	0.40	hypothetical protein
SmaI_2621	1.51	ABC transporter-like protein
SmaI_2623	1.61	hypothetical protein
SmaI_2624	2.15	hypothetical protein
SmaI_2625	0.45	hypothetical protein
SmaI_2634	22.27	hypothetical protein
SmaI_2636	0.23	TonB-dependent receptor
SmaI_2640	14.50	transketolase domain-containing protein
SmaI_2644	0.15	hypothetical protein
SmaI_2647	10.88	hypothetical protein
SmaI_2649	2.21	cold-shock DNA-binding domain-containing protein
SmaI_2652	2.11	arsenate reductase
SmaI_2656	0.18	ECF subfamily RNA polymerase sigma-24 subunit
SmaI_2658	0.41	ABC transporter-like protein

SmaI_2660	0.15	glutathione peroxidase
SmaI_2665	2.71	hypothetical protein
SmaI_2677	1.58	RluA family pseudouridine synthase
SmaI_2679	42.29	endonuclease/exonuclease/phosphatase
SmaI_2680	1.75	coagulation factor 5/8 type domain-containing protein
SmaI_2681	0.45	monosaccharide-transporting ATPase
SmaI_2683	0.30	family 1 extracellular solute-binding protein
SmaI_2684	3.44	hypothetical protein
SmaI_2685	1.92	TonB-dependent receptor
SmaI_2686	1.81	LacI family transcriptional regulator
SmaI_2687	1.81	BolA family protein
SmaI_2688	3.62	hypothetical protein
SmaI_2690	0.50	segregation and condensation protein B
SmaI_2694	0.18	hypothetical protein
SmaI_2695	-53.45	hypothetical protein
SmaI_2696	0.26	hypothetical protein
SmaI_2697	1.81	nitrilase/cyanide hydratase and apolipoprotein N-acyltransferase
SmaI_2698	2.17	putative aminotransferase
SmaI_2701	1.81	heme exporter protein CcmC
SmaI_2702	1.81	heme exporter protein CcmD
SmaI_2706	2.11	cytochrome C biogenesis protein
SmaI_2707	2.41	hypothetical protein
SmaI_2709	-18.00	hypothetical protein
SmaI_2714	1.81	cyd operon protein YbgT
SmaI_2716	0.45	HmsH protein
SmaI_2717	-5.54	polysaccharide deacetylase
SmaI_2718	3.76	N-glycosyltransferase
SmaI_2719	0.45	hypothetical protein
SmaI_2721	0.23	gamma-glutamyl kinase
SmaI_2723	0.41	argininosuccinate lyase
SmaI_2725	0.50	amino-acid acetyltransferase
SmaI_2733	0.30	major facilitator superfamily protein
SmaI_2750	3.16	acetoacetyl-CoA reductase
SmaI_2753	1.63	hypothetical protein
SmaI_2758	1.58	iron-sulfur cluster binding protein
SmaI_2759	1.81	exodeoxyribonuclease VII large subunit
SmaI_2760	2.71	peptidase M48 Ste24p
SmaI_2763	-25.25	hypothetical protein

SmaI_2765	-8.85	TetR family transcriptional regulator
SmaI_2766	0.45	Xylose isomerase domain-containing protein
SmaI_2769	54.57	hypothetical protein
SmaI_2771	6.20	short chain dehydrogenase
SmaI_2772	10.03	AraC family transcriptional regulator
SmaI_2773	-5.09	alcohol dehydrogenase zinc-binding domain-containing protein
SmaI_2775	1.81	lipocalin family protein
SmaI_2780	0.45	hypothetical protein
SmaI_2783	46.74	hypothetical protein
SmaI_2784	4.52	hypothetical protein
SmaI_2787	2.11	small multidrug resistance protein
SmaI_2789	0.34	lysine exporter protein LysE/YggA
SmaI_2790	0.45	ATP-dependent Clp protease proteolytic subunit
SmaI_2792	2.11	ArsR family transcriptional regulator
SmaI_2793	2.71	aspartate racemase
SmaI_2794	59.75	hypothetical protein
SmaI_2795	-10.26	hypothetical protein
SmaI_2796	-59.15	hypothetical protein
SmaI_2797	0.36	N-acetyltransferase GCN5
SmaI_2798	1.58	MerR family transcriptional regulator
SmaI_2807	1.81	hypothetical protein
SmaI_2810	-5.05	hypothetical protein
SmaI_2823	0.50	NADH dehydrogenase subunit I
SmaI_2827	1.63	NADH dehydrogenase subunit E
SmaI_2844	-5.89	LysR family transcriptional regulator
SmaI_2846	-7.38	signal recognition particle-docking protein FtsY
SmaI_2849	2.26	hypothetical protein
SmaI_2852	52.16	Glyoxalase/bleomycin resistance protein/dioxygenase
SmaI_2853	1.56	hypothetical protein
SmaI_2858	0.50	electron transport protein SCO1/SenC
SmaI_2864	-12.49	putative putative transmembrane protein
SmaI_2868	3.62	hypothetical protein
SmaI_2878	1.81	amine oxidase
SmaI_2880	15.63	methylated-DNA--protein-cysteine methyltransferase
SmaI_2881	0.45	hypothetical protein
SmaI_2883	2.11	pyridine nucleotide-disulfide oxidoreductase dimerisation protein
SmaI_2885	0.15	hypothetical protein
SmaI_2888	1.81	NLP/P60 protein

SmaI_2891	17.42	hypothetical protein
SmaI_2892	1.51	tRNA(Ile)-lysidine synthetase
SmaI_2893	1.51	exodeoxyribonuclease VII small subunit
SmaI_2894	1.81	polyprenyl synthetase
SmaI_2903	1.63	TonB family protein
SmaI_2904	1.52	TonB-dependent receptor
SmaI_2905	2.41	arginine/ornithine antiporter
SmaI_2906	2.03	xylanase
SmaI_2909	0.15	nicotinic acid mononucleotide adenylyltransferase
SmaI_2913	-17.52	hypothetical protein
SmaI_2917	3.32	hypothetical protein
SmaI_2919	5.43	hypothetical protein
SmaI_2920	20.73	hypothetical protein
SmaI_2921	0.30	hypothetical protein
SmaI_2924	0.18	Glyoxalase/bleomycin resistance protein/dioxygenase
SmaI_2925	2.03	hypothetical protein
SmaI_2927	2.07	HAD-superfamily hydrolase
SmaI_2928	1.81	ferredoxin
SmaI_2929	2.11	endoribonuclease L-PSP
SmaI_2931	0.40	virulence factor family protein
SmaI_2933	50.22	hypothetical protein
SmaI_2934	2.71	hypothetical protein
SmaI_2935	2.71	hypothetical protein
SmaI_2936	1.63	alkylphosphonate utilization operon protein PhnA
SmaI_2937	1.58	heat shock protein
SmaI_2944	0.36	hypothetical protein
SmaI_2947	1.94	hypothetical protein
SmaI_2949	3.16	hypothetical protein
SmaI_2950	0.39	RNA-binding S4 domain-containing protein
SmaI_2956	1.85	outer membrane protein
SmaI_2961	-10.61	DEAD/DEAH box helicase
SmaI_2962	0.45	metallophosphoesterase
SmaI_2964	0.36	monooxygenase FAD-binding
SmaI_2966	2.98	5'-methylthioadenosine phosphorylase
SmaI_2971	1.68	23S rRNA 5-methyluridine methyltransferase
SmaI_2974	1.57	GTP-binding protein Era
SmaI_2990	-40.26	Glyoxalase/bleomycin resistance protein/dioxygenase
SmaI_2992	5.43	winged helix family two component transcriptional regulator



SmaI_2994	-13.61	hypothetical protein
SmaI_2996	1.85	peptidyl-dipeptidase A
SmaI_2997	0.30	hypothetical protein
SmaI_2998	-23.30	FAD-binding 9 siderophore-interacting domain-containing protein
SmaI_2999	1.99	Bcr/CfIA subfamily drug resistance transporter
SmaI_3003	2.11	AraC family transcriptional regulator
SmaI_3006	2.11	hypothetical protein
SmaI_3007	1.58	methyl-accepting chemotaxis sensory transducer
SmaI_3009	1.92	hypothetical protein
SmaI_3010	0.18	ErfK/YbiS/YcfS/YnhG family protein
SmaI_3012	-7.81	hypothetical protein
SmaI_3014	0.30	hypothetical protein
SmaI_3017	7.23	YhdH/YhfP family quinone oxidoreductase
SmaI_3022	1.58	penicillin-binding protein 1C
SmaI_3027	2.03	putative addiction module antidote protein
SmaI_3032	2.26	DoxX family protein
SmaI_3038	3.62	hypothetical protein
SmaI_3042	0.47	integral membrane sensor hybrid histidine kinase
SmaI_3043	1.81	hypothetical protein
SmaI_3044	0.30	cytochrome B561
SmaI_3046	62.38	glutaredoxin
SmaI_3047	1.73	L-serine dehydratase 1
SmaI_3048	8.14	alpha/beta hydrolase fold domain-containing protein
SmaI_3049	0.18	Homoserine dehydrogenase
SmaI_3050	0.36	cystathionine gamma-synthase
SmaI_3051	0.30	homoserine O-acetyltransferase
SmaI_3052	-5.85	peptidase M23
SmaI_3054	3.32	hemolysin III family channel protein
SmaI_3055	0.45	AsmA family protein
SmaI_3056	0.30	putative signal transduction protein
SmaI_3059	1.74	Hsp33 protein
SmaI_3066	-44.74	hypothetical protein
SmaI_3067	3.62	hypothetical protein
SmaI_3069	18.68	short-chain dehydrogenase/reductase SDR
SmaI_3070	0.45	LysR family transcriptional regulator
SmaI_3074	4.52	hypothetical protein
SmaI_3076	4.52	hypothetical protein
SmaI_3077	0.45	hypothetical protein

SmaI_3083	1.51	CheW protein
SmaI_3084	1.81	hypothetical protein
SmaI_3085	1.50	CheA signal transduction histidine kinase
SmaI_3087	1.55	CheW protein
SmaI_3089	2.35	response regulator receiver protein
SmaI_3090	2.03	glutathione synthetase
SmaI_3095	1.51	penicillin-binding protein 1B
SmaI_3096	1.55	family 2 glycosyl transferase
SmaI_3097	0.45	NAD-dependent epimerase/dehydratase
SmaI_3098	2.71	hypothetical protein
SmaI_3107	46.10	N-acetyltransferase GCN5
SmaI_3109	4.52	abortive infection protein
SmaI_3110	22.21	response regulator receiver protein
SmaI_3112	-18.60	putative esterase
SmaI_3113	1.58	hypothetical protein
SmaI_3114	1.81	hypothetical protein
SmaI_3124	2.51	Holliday junction DNA helicase RuvB
SmaI_3125	0.39	K potassium transporter
SmaI_3133	19.06	hypothetical protein
SmaI_3134	4.97	hypothetical protein
SmaI_3135	4.52	sodium/hydrogen exchanger
SmaI_3136	2.71	beta-lactamase
SmaI_3137	1.81	LysR family transcriptional regulator
SmaI_3141	3.62	O-acetylhomoserine/O-acetylserine sulfhydrylase
SmaI_3142	0.18	winged helix family two component transcriptional regulator
SmaI_3143	1.81	integral membrane sensor signal transduction histidine kinase
SmaI_3144	2.35	MltA-interacting MipA family protein
SmaI_3149	4.07	thiamine pyrophosphate domain-containing TPP-binding protein
SmaI_3150	1.68	hypothetical protein
SmaI_3151	1.51	hypothetical protein
SmaI_3153	2.07	HAD-superfamily hydrolase
SmaI_3155	2.05	alpha,alpha-trehalose-phosphate synthase
SmaI_3156	1.81	putative thiol-disulfide oxidoreductase DCC
SmaI_3157	2.11	hypothetical protein
SmaI_3159	4.07	RluA family pseudouridine synthase
SmaI_3161	3.16	hypothetical protein
SmaI_3169	1.51	group 1 glycosyl transferase
SmaI_3176	1.51	fimbrial protein pilin

Smal_3180	1.51	integral membrane sensor signal transduction histidine kinase
Smal_3184	0.18	alpha-L-glutamase ligase
Smal_3187	0.49	hypothetical protein
Smal_3189	70.81	sulfur carrier protein ThiS
Smal_3192	1.58	TrkA-C domain-containing protein
Smal_3194	0.45	hypothetical protein
Smal_3197	1.81	peptidase M28
Smal_3198	0.45	amino acid carrier protein
Smal_3201	1.81	amino acid carrier protein
Smal_3203	2.41	acriflavin resistance protein
Smal_3204	-4.72	RND family efflux transporter MFP subunit
Smal_3206	0.30	hypothetical protein
Smal_3209	0.25	transcriptional regulator CysB-like protein
Smal_3215	2.86	HAD-superfamily hydrolase
Smal_3221	2.11	S1/P1 nuclease
Smal_3224	1.58	TonB family protein
Smal_3226	2.71	flavin reductase domain-containing protein
Smal_3232	2.49	von Willebrand factor type A
Smal_3233	1.81	hypothetical protein
Smal_3234	0.30	hypothetical protein
Smal_3236	2.00	type IV pilus secretin PilQ
Smal_3241	1.81	penicillin-binding protein
Smal_3242	3.62	hypothetical protein
Smal_3244	-27.88	hypothetical protein
Smal_3246	0.45	putative fimbrial protein
Smal_3248	0.45	outermembrane fimbrial usher protein
Smal_3249	-10.44	CS1 type fimbrial major subunit
Smal_3252	-20.26	AraC family transcriptional regulator
Smal_3257	1.51	endoribonuclease L-PSP
Smal_3265	1.72	L-seryl-tRNA(Sec) selenium transferase
Smal_3272	2.61	putative deoxyribonucleotide triphosphate pyrophosphatase
Smal_3274	1.74	hypothetical protein
Smal_3276	1.81	proline dipeptidase
Smal_3279	0.18	hypothetical protein
Smal_3284	1.63	hypothetical protein
Smal_3290	23.52	HAD-superfamily hydrolase
Smal_3291	1.55	acetylornithine transaminase protein
Smal_3292	4.52	lon transport protein

SmaI_3295	2.26	short chain dehydrogenase
SmaI_3298	3.16	serine/threonine protein kinase
SmaI_3299	1.81	PA-phosphatase-like phosphoesterase
SmaI_3305	5.43	hypothetical protein
SmaI_3306	1.67	hypothetical protein
SmaI_3309	-24.57	TonB system transport protein ExbD
SmaI_3310	1.81	tonB-system energizer ExbB
SmaI_3311	-11.18	hypothetical protein
SmaI_3312	-8.89	heme oxygenase-like protein
SmaI_3313	36.73	hypothetical protein
SmaI_3314	0.23	TonB-dependent receptor
SmaI_3315	1.81	anti-FecI sigma factor FecR
SmaI_3316	0.30	ECF subfamily RNA polymerase sigma-24 subunit
SmaI_3318	1.91	inorganic pyrophosphatase
SmaI_3322	0.40	AraC family transcriptional regulator
SmaI_3327	5.33	gamma-glutamyltransferase
SmaI_3328	1.58	ketol-acid reductoisomerase
SmaI_3331	1.81	threonine dehydratase
SmaI_3332	2.17	2-isopropylmalate synthase
SmaI_3333	12.21	type 11 methyltransferase
SmaI_3335	1.81	3-isopropylmalate dehydratase small subunit
SmaI_3336	1.81	3-isopropylmalate dehydrogenase
SmaI_3337	12.21	short-chain dehydrogenase/reductase SDR
SmaI_3341	1.52	TetR family transcriptional regulator
SmaI_3342	1.53	protein-L-isoaspartate(D-aspartate) O-methyltransferase
SmaI_3344	0.15	hypothetical protein
SmaI_3348	0.45	group 1 glycosyl transferase
SmaI_3349	119.81	hypothetical protein
SmaI_3350	2.29	alpha-1,2-mannosidase
SmaI_3351	2.07	hypothetical protein
SmaI_3355	2.07	PAS/PAC sensor hybrid histidine kinase
SmaI_3356	0.23	two component LuxR family transcriptional regulator
SmaI_3357	1.81	family 1 extracellular solute-binding protein
SmaI_3358	0.23	integral membrane sensor signal transduction histidine kinase
SmaI_3359	0.30	winged helix family two component transcriptional regulator
SmaI_3363	-6.82	TonB-dependent receptor
SmaI_3375	2.71	DSBA oxidoreductase
SmaI_3378	0.30	NodT family RND efflux system outer membrane lipoprotein

Smal_3380	0.45	major facilitator superfamily protein
Smal_3381	0.41	LysR family transcriptional regulator
Smal_3383	1.81	hypothetical protein
Smal_3384	6.53	diguanylate cyclase
Smal_3389	22.53	hypothetical protein
Smal_3391	1.51	NADH:flavin oxidoreductase
Smal_3393	5.43	hypothetical protein
Smal_3399	1.81	hypothetical protein
Smal_3400	1.81	AraC family transcriptional regulator
Smal_3403	1.66	cytochrome c class I
Smal_3407	-5.97	hypothetical protein
Smal_3408	9.79	AsnC family transcriptional regulator
Smal_3411	0.43	TonB-dependent receptor
Smal_3415	2.33	multifunctional tRNA nucleotidyl transferase
Smal_3417	0.30	hypothetical protein
Smal_3418	-35.34	peptidase S41
Smal_3422	1.66	glutamine--fructose-6-phosphate transaminase
Smal_3425	3.01	glucokinase
Smal_3426	1.81	TonB-dependent receptor
Smal_3427	2.71	beta-N-acetylhexosaminidase
Smal_3432	2.26	20S proteasome subunits A and B
Smal_3433	1.53	response regulator receiver sensor hybrid histidine kinase
Smal_3438	1.85	6-phosphogluconate dehydrogenase
Smal_3440	4.97	hypothetical protein
Smal_3445	0.48	hypothetical protein
Smal_3447	1.56	rare lipoprotein A
Smal_3449	-19.35	rod shape-determining protein RodA
Smal_3451	3.32	penicillin-binding protein 2
Smal_3458	3.26	hypothetical protein
Smal_3462	0.45	hypothetical protein
Smal_3466	1.55	NodT family RND efflux system outer membrane lipoprotein
Smal_3468	1.59	RND family efflux transporter MFP subunit
Smal_3475	1.68	hypothetical protein
Smal_3476	1.95	diaminopimelate epimerase
Smal_3477	0.30	hypothetical protein
Smal_3482	0.18	hypothetical protein
Smal_3484	1.81	binding-protein-dependent transport system inner membrane protein
Smal_3487	2.17	putative nucleotide-binding protein

Smal_3490	1.56	aldehyde dehydrogenase
Smal_3491	2.71	hypothetical protein
Smal_3492	2.49	short-chain dehydrogenase/reductase SDR
Smal_3494	2.71	hypothetical protein
Smal_3496	1.77	lactoylglutathione lyase
Smal_3501	0.45	ABC transporter-like protein
Smal_3502	0.30	hypothetical protein
Smal_3504	12.23	hypothetical protein
Smal_3505	1.81	two component sigma54 specific Fis family transcriptional regulator
Smal_3506	1.51	integral membrane sensor signal transduction histidine kinase
Smal_3509	5.43	GtrA family protein
Smal_3515	1.67	F0F1 ATP synthase subunit B
Smal_3522	0.30	hypothetical protein
Smal_3524	0.30	glycerol-3-phosphate dehydrogenase
Smal_3525	-17.41	glycerol kinase
Smal_3528	0.13	hypothetical protein
Smal_3532	2.26	histidine kinase internal region
Smal_3538	0.34	NAD-dependent epimerase/dehydratase
Smal_3541	1.81	hypothetical protein
Smal_3542	0.30	peptidase M24
Smal_3545	-3.55	EmrB/QacA subfamily drug resistance transporter
Smal_3546	0.23	TetR family transcriptional regulator
Smal_3547	1.81	Glyoxalase/bleomycin resistance protein/dioxygenase
Smal_3548	-52.20	hypothetical protein
Smal_3549	1.81	outer membrane autotransporter barrel domain-containing protein
Smal_3551	0.18	LysR family transcriptional regulator
Smal_3552	0.30	major facilitator superfamily protein
Smal_3554	2.26	peptidoglycan glycosyltransferase
Smal_3555	0.45	hypothetical protein
Smal_3556	0.36	TonB-dependent receptor
Smal_3557	-10.22	hypothetical protein
Smal_3559	3.01	AraC family transcriptional regulator
Smal_3560	2.11	glutathione S-transferase domain-containing protein
Smal_3561	0.45	hypothetical protein
Smal_3563	0.45	DoxX family protein
Smal_3564	3.32	hypothetical protein
Smal_3569	0.18	ATPase AAA
Smal_3570	1.63	hypothetical protein

SmaI_3571	1.60	hypothetical protein
SmaI_3573	1.99	D-tyrosyl-tRNA(Tyr) deacylase
SmaI_3575	1.59	GTP cyclohydrolase
SmaI_3576	2.11	membrane-flanked domain-containing protein
SmaI_3578	0.50	CDP-glycerol:poly(glycerophosphate) glycerophosphotransferase
SmaI_3579	0.23	family 2 glycosyl transferase
SmaI_3582	0.42	glycosyl transferase family protein
SmaI_3586	2.26	peptidoglycan-binding LysM
SmaI_3589	1.97	fimbrial protein pilin
SmaI_3592	2.41	SUA5/yciO/yrdC domain
SmaI_3593	4.52	hypothetical protein
SmaI_3596	-24.62	hypothetical protein
SmaI_3600	18.81	hypothetical protein
SmaI_3605	-57.74	hypothetical protein
SmaI_3606	10.95	hypothetical protein
SmaI_3609	1.51	hypothetical protein
SmaI_3610	4.52	RND family efflux transporter MFP subunit
SmaI_3615	2.49	hypothetical protein
SmaI_3618	1.66	MarR family transcriptional regulator
SmaI_3619	0.36	integral membrane sensor signal transduction histidine kinase
SmaI_3620	-14.77	winged helix family two component transcriptional regulator
SmaI_3621	1.81	hypothetical protein
SmaI_3623	22.30	glutathione S-transferase domain-containing protein
SmaI_3624	0.15	LysR family transcriptional regulator
SmaI_3625	7.69	hypothetical protein
SmaI_3628	6.33	endonuclease I
SmaI_3629	1.51	CutA1 divalent ion tolerance protein
SmaI_3630	0.41	C-type cytochrome biogenesis protein
SmaI_3631	1.51	alkyl hydroperoxide reductase
SmaI_3632	0.45	flavodoxin/nitric oxide synthase
SmaI_3634	-24.89	N-hydroxyarylamine O-acetyltransferase
SmaI_3635	-14.07	Glyoxalase/bleomycin resistance protein/dioxygenase
SmaI_3636	3.62	family 3 extracellular solute-binding protein
SmaI_3637	1.81	LysR family transcriptional regulator
SmaI_3639	2.11	hypothetical protein
SmaI_3641	7.23	TetR family transcriptional regulator
SmaI_3644	-12.58	hypothetical protein
SmaI_3647	2.41	hypothetical protein

SmaI_3648	1.56	acetyl-CoA carboxylase biotin carboxyl carrier protein subunit
SmaI_3651	2.16	hypothetical protein
SmaI_3653	2.26	hypothetical protein
SmaI_3654	0.45	DNA-binding protein Fis
SmaI_3655	0.45	phosphatidate cytidyltransferase
SmaI_3656	1.81	phospholipid/glycerol acyltransferase
SmaI_3657	64.81	hypothetical protein
SmaI_3658	2.17	putative dual specificity phosphatase
SmaI_3659	0.45	hypothetical protein
SmaI_3661	-8.38	hypothetical protein
SmaI_3663	2.94	hypothetical protein
SmaI_3667	0.45	CopY family transcriptional repressor
SmaI_3675	2.33	thioredoxin
SmaI_3676	1.55	transcription termination factor Rho
SmaI_3679	0.18	bifunctional isocitrate dehydrogenase kinase/phosphatase protein
SmaI_3680	39.45	hypothetical protein
SmaI_3682	-9.53	hypothetical protein
SmaI_3683	0.36	hypothetical protein
SmaI_3685	1.68	hypothetical protein
SmaI_3687	2.20	7-cyano-7-deazaguanine reductase
SmaI_3688	1.68	amidohydrolase
SmaI_3691	0.49	acriflavin resistance protein
SmaI_3692	0.26	TonB-dependent siderophore receptor
SmaI_3693	0.50	YccS/YhfK family integral membrane protein
SmaI_3694	-13.15	short-chain dehydrogenase/reductase SDR
SmaI_3707	1.51	bacterioferritin
SmaI_3708	0.23	BFD (2Fe-2S)-binding domain-containing protein
SmaI_3712	4.07	ubiquinone biosynthesis protein
SmaI_3713	0.30	small multidrug resistance protein
SmaI_3715	1.51	cAMP-regulatory protein
SmaI_3716	0.18	hypothetical protein
SmaI_3717	2.26	haloacid dehalogenase domain-containing protein hydrolase
SmaI_3723	2.20	lipid kinase
SmaI_3726	1.81	heat shock protein DnaJ domain-containing protein
SmaI_3727	2.26	phosphoribosylaminoimidazole-succinocarboxamide synthase
SmaI_3730	2.45	putative monovalent cation/H <sup>+</sup> antiporter subunit C
SmaI_3732	0.45	putative monovalent cation/H <sup>+</sup> antiporter subunit E
SmaI_3734	1.51	putative monovalent cation/H <sup>+</sup> antiporter subunit G



SmaI_3735	0.30	sodium/calcium exchanger membrane protein
SmaI_3741	0.45	hypothetical protein
SmaI_3743	3.01	putative thioredoxin
SmaI_3749	1.53	branched-chain alpha-keto acid dehydrogenase subunit E2
SmaI_3750	0.30	hypothetical protein
SmaI_3752	-7.38	helix-turn-helix type 11 domain-containing protein
SmaI_3754	0.36	diguanylate cyclase
SmaI_3756	1.51	ABC-1 domain-containing protein
SmaI_3757	1.81	phosphoglycerol transferase I
SmaI_3759	0.15	hypothetical protein
SmaI_3761	0.18	FAD dependent oxidoreductase
SmaI_3763	0.30	hypothetical protein
SmaI_3767	0.45	hypothetical protein
SmaI_3769	1.54	spermidine synthase
SmaI_3771	0.30	Mn <sup>2+</sup> -dependent serine/threonine protein kinase
SmaI_3774	3.16	rifampin ADP-ribosyl transferase
SmaI_3777	0.15	hypothetical protein
SmaI_3779	66.30	hypothetical protein
SmaI_3782	0.30	Mg chelatase subunit ChII
SmaI_3785	2.26	sugar phosphatase
SmaI_3787	1.58	L-sorbose dehydrogenase
SmaI_3788	2.71	hypothetical protein
SmaI_3789	2.03	peptidase S8/S53 subtilisin kexin sedolisin
SmaI_3791	-6.57	electron transport protein SCO1/SenC
SmaI_3793	-16.44	cytochrome o ubiquinol oxidase subunit III
SmaI_3797	-20.08	hypothetical protein
SmaI_3798	7.88	hypothetical protein
SmaI_3799	4.52	GntR family transcriptional regulator
SmaI_3800	0.23	class V aminotransferase
SmaI_3801	0.45	TonB-dependent receptor
SmaI_3802	1.51	hypothetical protein
SmaI_3804	0.45	hypothetical protein
SmaI_3806	1.81	hypothetical protein
SmaI_3811	34.79	hypothetical protein
SmaI_3814	0.34	glycoside hydrolase family protein
SmaI_3816	2.71	ROK family protein
SmaI_3817	-7.83	D-tagatose-bisphosphate aldolase non-catalytic subunit
SmaI_3818	1.81	DNA-binding transcriptional regulator AgaR

SmaI_3820	0.30	general substrate transporter
SmaI_3821	1.81	hypothetical protein
SmaI_3823	-7.51	competence protein F
SmaI_3824	0.30	hypothetical protein
SmaI_3827	3.62	biotin synthase
SmaI_3828	4.52	8-amino-7-oxononanoate synthase
SmaI_3829	1.51	bioH protein
SmaI_3835	1.58	tRNA uridine 5-carboxymethylaminomethyl modification protein GidA
SmaI_3838	19.73	RND family efflux transporter MFP subunit
SmaI_3839	-11.26	integral membrane sensor signal transduction histidine kinase
SmaI_3840	0.23	winged helix family two component transcriptional regulator
SmaI_3841	1.51	hypothetical protein
SmaI_3843	2.11	RDD domain-containing protein
SmaI_3847	0.30	ATPase
SmaI_3848	2.26	hypothetical protein
SmaI_3850	1.61	hypothetical protein
SmaI_3851	2.41	dihydroxy-acid dehydratase
SmaI_3855	2.71	hypothetical protein
SmaI_3856	1.89	shikimate 5-dehydrogenase
SmaI_3857	2.56	WD40 domain-containing protein
SmaI_3860	1.94	hypothetical protein
SmaI_3861	2.26	hypothetical protein
SmaI_3862	0.30	hypothetical protein
SmaI_3864	1.81	hypothetical protein
SmaI_3866	2.26	glutathione S-transferase domain-containing protein
SmaI_3867	1.81	hypothetical protein
SmaI_3868	2.94	TonB family protein
SmaI_3869	37.17	hypothetical protein
SmaI_3870	-13.10	AraC family transcriptional regulator
SmaI_3871	-7.35	hypothetical protein
SmaI_3877	0.18	chitin-binding protein
SmaI_3878	2.71	chitin-binding protein
SmaI_3882	0.39	hypothetical protein
SmaI_3884	2.71	NAD-dependent epimerase/dehydratase
SmaI_3885	1.81	TatD-related deoxyribonuclease
SmaI_3886	3.16	ATP-dependent helicase HrpB
SmaI_3888	2.26	pseudouridine synthase
SmaI_3890	1.58	putative methyltransferase

SmaI_3894	4.07	FAD-dependent pyridine nucleotide-disulfide oxidoreductase
SmaI_3897	1.51	LysR family transcriptional regulator
SmaI_3900	13.35	alpha/beta hydrolase fold domain-containing protein
SmaI_3901	-13.74	hypothetical protein
SmaI_3907	1.88	hypothetical protein
SmaI_3912	-18.74	hypothetical protein
SmaI_3916	1.58	thioesterase superfamily protein
SmaI_3917	0.50	Histidine ammonia-lyase
SmaI_3918	10.85	lipid A biosynthesis acyltransferase
SmaI_3922	1.51	acyl carrier protein
SmaI_3925	0.45	hypothetical protein
SmaI_3926	3.62	cytochrome d ubiquinol oxidase subunit II
SmaI_3927	2.26	cytochrome bd ubiquinol oxidase subunit I
SmaI_3928	0.39	hypothetical protein
SmaI_3929	0.45	hypothetical protein
SmaI_3931	3.62	ECF subfamily RNA polymerase sigma-24 subunit
SmaI_3932	28.70	hypothetical protein
SmaI_3935	-27.96	hypothetical protein
SmaI_3936	4.21	hypothetical protein
SmaI_3937	3.16	hypothetical protein
SmaI_3940	3.62	hypothetical protein
SmaI_3949	1.58	phospholipase D/transphosphatidylase
SmaI_3952	5.43	DNA polymerase III subunit epsilon
SmaI_3956	1.66	outer membrane efflux protein
SmaI_3957	1.71	RND family efflux transporter MFP subunit
SmaI_3960	-11.06	integrase catalytic subunit
SmaI_3964	1.54	hypothetical protein
SmaI_3965	2.28	parB-like partition protein
SmaI_3967	1.81	16S rRNA methyltransferase GidB
SmaI_3968	3.62	4'-phosphopantetheinyl transferase
SmaI_3969	2.89	transglycosylase-associated protein
SmaI_3970	2.26	exodeoxyribonuclease III
SmaI_3971	2.03	aldehyde dehydrogenase
SmaI_3973	1.99	hypothetical protein
SmaI_3974	1.93	acetyl-CoA synthetase
SmaI_3975	1.69	two component LuxR family transcriptional regulator
SmaI_3977	0.30	hypothetical protein
SmaI_3978	1.55	multi-sensor hybrid histidine kinase

SmaI_3981	1.51	surface antigen (D15)
SmaI_3982	1.58	glycyl-tRNA synthetase subunit beta
SmaI_3985	1.51	glutamine amidotransferase
SmaI_3986	2.35	hypothetical protein
SmaI_3987	0.27	Sec-independent protein translocase subunit TatC
SmaI_3992	3.92	alpha/beta hydrolase fold domain-containing protein
SmaI_3993	0.45	Pas/Pac sensor-containing methyl-accepting chemotaxis sensory transducer
SmaI_3995	0.35	hypothetical protein
SmaI_3999	0.30	hypothetical protein
SmaI_4003	1.51	hypothetical protein
SmaI_4004	1.91	hypothetical protein
SmaI_4007	1.70	MarR family transcriptional regulator
SmaI_4008	0.36	hypothetical protein
SmaI_4011	0.41	fusaric acid resistance protein
SmaI_4012	0.45	hypothetical protein
SmaI_4013	1.51	exodeoxyribonuclease V subunit alpha
SmaI_4014	2.08	exodeoxyribonuclease V subunit beta
SmaI_4020	2.44	hypothetical protein
SmaI_4023	-52.46	hypothetical protein
SmaI_4025	-25.88	glutathione S-transferase domain-containing protein
SmaI_4029	0.30	hypothetical protein
SmaI_4030	2.71	hypothetical protein
SmaI_4037	2.17	rhomboid family protein
SmaI_4038	1.63	glycerophosphoryl diester phosphodiesterase
SmaI_4040	0.36	putative phage-like protein
SmaI_4041	2.26	tRNA modification GTPase TrmE
SmaI_R0001	-69.60	tRNA-Thr
SmaI_R0011	41.41	5S ribosomal RNA
SmaI_R0020	2.26	tRNA-Arg1
SmaI_R0023	0.49	tRNA-Lys2
SmaI_R0024	-62.14	tRNA-Leu1
SmaI_R0030	104.90	tRNA-Ser1
SmaI_R0031	41.41	SRP RNA; RNA component of signal recognition particle
SmaI_R0033	63.79	tRNA-Val2
SmaI_R0035	-60.70	tRNA-Leu7
SmaI_R0036	-60.70	tRNA-Leu6
SmaI_R0037	168.58	tRNA-Leu5
SmaI_R0042	-69.60	tRNA-Gly3

SmaI_R0044	-69.60	tRNA-Gly5
SmaI_R0045	-71.51	tRNA-Cys1
SmaI_R0046	0.18	tRNA-Leu4
SmaI_R0047	3.62	tRNA-Ser2
SmaI_R0051	-70.54	tRNA-Glu4
SmaI_R0054	2.56	tRNA-Ala3
SmaI_R0061	-58.65	tRNA-Ser3
SmaI_R0063	62.11	tRNA-Pro3
SmaI_R0064	62.94	tRNA-Ala6
SmaI_R0073	1.51	tRNA-Gly6
SmaI_R0074	4.52	tRNA-SeC1
SmaI_R0078	2.41	tRNA-Gln2
SmaI_R0080	0.38	tRNA-Arg4
SmaI_R0081	82.81	5S ribosomal RNA