

<b><i>Mycobacterium gilvum</i> PYR-GCK gene transcripts expressed as a result of glucose and pyrene substrates induction.</b>				
<b>Gene tag</b>	<b>Identification</b>	<b>Glucose</b>	<b>Pyrene</b>	<b>Expression value</b>
Mflv_0001	transposase IS116/IS110/IS902 family protein	1.10884	0	Glucose
Mflv_0002	conserved hypothetical protein	6.53164	20.9583	3.21
Mflv_0003	conserved hypothetical protein	15.9845	44.3637	2.78
Mflv_0004	conserved hypothetical protein	30.4846	38.9706	1.28
Mflv_0005	virulence factor Mce family protein	19.9742	37.6368	1.88
Mflv_0006	protein	10.7322	19.9251	1.86
Mflv_0007	virulence factor Mce family protein	9.18663	16.6233	1.81
Mflv_0008	virulence factor Mce family protein	15.3208	29.624	1.93
Mflv_0009	virulence factor Mce family protein	11.5656	27.4918	2.38
Mflv_0010	protein	8.37045	19.443	2.32
Mflv_0011	protein of unknown function DUF140	17.597	39.059	2.22
Mflv_0012	protein of unknown function DUF140	33.514	36.4947	1.09
Mflv_0013	transcriptional regulator, TetR family	11.8247	18.7742	1.59
Mflv_0014	hypothetical protein	42.1924	13.3675	0.32
Mflv_0015	AMP-dependent synthetase and ligase	25.6862	43.0907	1.68
Mflv_0016	GntR domain protein	118.383	25.7211	0.22
Mflv_0017	major facilitator superfamily MFS_1	46.6457	26.9487	0.58
Mflv_0018	conserved hypothetical protein	15.111	21.88	1.45
Mflv_0019	NodS family protein	17.5361	22.7159	1.30
Mflv_0020	LmbE family protein	21.6887	30.6232	1.41
Mflv_0021	dehydrogenase	18.1744	30.9548	1.70
Mflv_0022	glycosyl transferase, family 2	238.094	48.7167	0.20
Mflv_0023	HAD-superfamily hydrolase, subfamily IA, variant 2 (HAD-like	114.064	47.7284	0.42
Mflv_0024	conserved hypothetical protein	68.9314	49.2042	0.71
Mflv_0025	1,4-Dihydroxy-2-naphthoate synthase	45.67	38.9184	0.85
Mflv_0026	short-chain dehydrogenase/reductase SDR	14.8745	24.0489	1.62
Mflv_0027	AMP-dependent synthetase and ligase	19.1861	38.2774	2.00
Mflv_0028	Glyoxalase/bleomycin resistance protein/dioxygenase	161.644	41.3266	0.26
Mflv_0029	conserved hypothetical protein	95.1305	42.2939	0.44
Mflv_0030	conserved hypothetical protein	298.566	86.062	0.29
Mflv_0031	phosphate transporter	300.694	91.5141	0.30
Mflv_0032	conserved hypothetical protein	1307.68	85.9524	0.07
Mflv_0033	AMP-dependent synthetase and ligase	45.0972	23.2682	0.52
Mflv_0034	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	20.5513	19.1414	0.93

Mflv_0035	two component transcriptional regulator, winged helix family	271.236	41.4677	0.15
Mflv_0036	integral membrane sensor signal transduction histidine kinase	58.7569	38.6656	0.66
Mflv_0037	2-nitropropane dioxygenase, NPD	97.7332	42.347	0.43
Mflv_0038	1,4-dihydroxy-2-naphthoate prenyltransferase	25.9187	34.4196	1.33
Mflv_0039	ATPase associated with various cellular activities, AAA_3	281.265	16.6621	0.06
Mflv_0040	protein of unknown function DUF58	42.3219	32.1326	0.76
Mflv_0041	conserved hypothetical protein	52.8638	25.4386	0.48
Mflv_0042	conserved hypothetical protein	10.2671	26.5924	2.59
Mflv_0043	conserved hypothetical protein	13.7448	43.2991	3.15
Mflv_0044	conserved hypothetical protein	51.805	76.5653	1.48
Mflv_0045	protein of unknown function DUF1486	867.641	201.817	0.23
Mflv_0046	conserved hypothetical protein	1117.84	30.3999	0.03
Mflv_0047	conserved hypothetical protein	7395.88	1011.16	0.14
Mflv_0048	conserved hypothetical protein	180.751	57.8064	0.32
Mflv_0049	conserved hypothetical protein	102.33	121.51	1.19
Mflv_0050	ResB family protein	19.175	50.9523	2.66
Mflv_0051	cytochrome c biogenesis protein, transmembrane region	13.294	38.1217	2.87
Mflv_0052	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	49.6013	85.512	1.72
Mflv_0053	Phosphoglycerate mutase	45.3196	44.408	0.98
Mflv_0054	aminomutase	101.389	49.0583	0.48
Mflv_0055	permease for cytosine/purines, uracil, thiamine, allantoin	13.817	31.1859	2.26
Mflv_0056	cytochrome P450	16.6914	30.7011	1.84
Mflv_0057	conserved hypothetical protein	107.678	44.0513	0.41
Mflv_0058	hypothetical protein	4747.22	84.2799	0.02
Mflv_0059	transcriptional regulator, TetR family	14.7724	31.3551	2.12
Mflv_0060	conserved hypothetical protein	33.3365	51.8345	1.55
Mflv_0061	putative transmembrane protein	0	29.2352	Pyrene
Mflv_0062	putative conserved transmembrane protein	126.929	71.4689	0.56
Mflv_0063	conserved hypothetical protein	27.3393	40.3611	1.48
Mflv_0064	Porphobilinogen synthase	38.9742	69.6423	1.79
Mflv_0065	uroporphyrinogen-III synthase / uroporphyrinogen-III C-methyltransferase	71.9443	91.5959	1.27
Mflv_0066	hydroxymethylbilane synthase	299.105	136.349	0.46
Mflv_0067	glutamyl-tRNA reductase	196.415	82.3976	0.42
Mflv_0068	glutaredoxin 2	0	39.8556	Pyrene
Mflv_0069	HAD-superfamily subfamily IB hydrolase, TIGR01490	39.9244	28.0744	0.70

Mflv_0070	MaoC-like dehydratase	143.248	49.1822	0.34
Mflv_0071	phospholipid/glycerol acyltransferase	205.953	50.187	0.24
Mflv_0072	NAD-dependent epimerase/dehydratase	103.488	94.243	0.91
Mflv_0073	Protein of unknown function DUF1713	0	0	-
Mflv_0074	DNA binding domain, excisionase family	449.957	59.4744	0.13
Mflv_0075	pyrroline-5-carboxylate reductase	84.9077	29.8026	0.35
Mflv_0076	conserved hypothetical protein	54.9684	41.1319	0.75
Mflv_0077	barrel	27.9076	33.3107	1.19
Mflv_0078	conserved hypothetical protein	35.4182	59.1879	1.67
Mflv_0079	Ppx/GppA phosphatase	78.2884	41.8135	0.53
Mflv_0080	conserved hypothetical protein	124.127	68.1517	0.55
Mflv_0081	YCII-related protein	0	41.7891	Pyrene
Mflv_0082	two component transcriptional regulator, winged helix family	26.6392	52.058	1.95
Mflv_0083	histidine kinase	66.4151	38.5531	0.58
Mflv_0084	phosphoglycerate mutase	108.861	56.3218	0.52
Mflv_0085	conserved hypothetical protein	57.0438	37.5341	0.66
Mflv_0086	glycosyl transferase, group 1	70.1661	30.5302	0.44
Mflv_0087	ROK family protein	27.6752	24.2998	0.88
Mflv_0088	short-chain dehydrogenase/reductase SDR	106.629	40.4637	0.38
Mflv_0089	ErfK/YbiS/YcfS/YnhG family protein	76.3236	41.5221	0.54
Mflv_0090	UDP-N-acetylmuramate dehydrogenase	20.4776	35.4204	1.73
Mflv_0091	conserved hypothetical protein	34.0611	22.2546	0.65
Mflv_0092	conserved hypothetical protein	52.2412	26.846	0.51
Mflv_0093	Na <sup>+</sup> /solute symporter	11.2521	29.9086	2.66
Mflv_0094	agmatinase	32.6792	28.9148	0.88
Mflv_0095	Nitrilase/cyanide hydratase and apolipoprotein N-acyltransferase	92.6588	36.062	0.39
Mflv_0096	conserved hypothetical protein	176.447	63.9056	0.36
Mflv_0097	deoxyribose-phosphate aldolase	5.38101	22.4842	4.18
Mflv_0098	conserved hypothetical protein	69.9517	45.2668	0.65
Mflv_0099	conserved membrane protein	71.5174	43.0156	0.60
Mflv_0100	conserved hypothetical protein	109.112	63.1667	0.58
Mflv_0101	transcriptional regulator, XRE family	426.122	96.9945	0.23
Mflv_0102	protein of unknown function DUF445	91.8782	38.5484	0.42
Mflv_0103	transcriptional regulator, TetR family	145.593	49.0407	0.34
Mflv_0104	protein of unknown function DUF344	51.0001	38.1329	0.75
Mflv_0105	Pseudogene	7.95669	26.6843	3.35
Mflv_0106	3-hydroxyacyl-CoA dehydrogenase	54.2679	41.1608	0.76
Mflv_0107	isocitrate lyase	31.4109	60.1427	1.91
Mflv_0108	acyl-ACP thioesterase	91.416	52.8784	0.58

Mflv_0109	protein of unknown function DUF955	17.0104	29.2433	1.72
Mflv_0110	Carboxymuconolactone decarboxylase	29.2436	55.3521	1.89
Mflv_0111	alpha/beta hydrolase fold protein	3.42332	20.7338	6.06
Mflv_0112	diguanylate cyclase	42.5211	46.9327	1.10
Mflv_0113	conserved hypothetical protein	85.6378	37.7573	0.44
Mflv_0114	dihydrolipoamide dehydrogenase	220.171	55.7744	0.25
Mflv_0115	ABC transporter related protein	20.7998	25.0801	1.21
Mflv_0116	ABC transporter related protein	6.74846	26.3521	3.90
Mflv_0117	binding-protein-dependent transport systems inner membrane component	9.96591	40.0449	4.02
Mflv_0118	binding-protein-dependent transport systems inner membrane component	30.9902	38.9309	1.26
Mflv_0119	extracellular solute-binding protein, family 5	27.1418	38.9371	1.43
Mflv_0120	conserved hypothetical protein	430.242	54.2753	0.13
Mflv_0121	hypothetical protein	92.0448	94.2564	1.02
Mflv_0122	protein of unknown function DUF779	374.198	72.7695	0.19
Mflv_0123	putative GAF sensor protein	664.727	112.533	0.17
Mflv_0124	acetoin reductase	784.943	105.757	0.13
Mflv_0125	Alcohol dehydrogenase GroES domain protein	579.756	68.1195	0.12
Mflv_0126	conserved hypothetical protein	772.814	115.047	0.15
Mflv_0127	Prolyl oligopeptidase	119.528	40.0372	0.33
Mflv_0128	conserved hypothetical protein	187.519	60.0151	0.32
Mflv_0129	conserved hypothetical protein	69.0948	61.3273	0.89
Mflv_0130	conserved hypothetical protein	151.807	82.8431	0.55
Mflv_0131	conserved hypothetical protein	13.5117	41.7499	3.09
Mflv_0132	aldehyde dehydrogenase	68.5228	51.9596	0.76
Mflv_0133	phosphoesterase, PA-phosphatase related protein	8.76982	46.1303	5.26
Mflv_0134	conserved hypothetical protein	139.583	36.447	0.26
Mflv_0135	Glyoxalase/bleomycin resistance protein/dioxygenase	518.953	57.9795	0.11
Mflv_0136	Amidohydrolase 3	32.1119	40.5792	1.26
Mflv_0137	Carboxymuconolactone decarboxylase	39.7246	22.3863	0.56
Mflv_0138	short-chain dehydrogenase/reductase SDR	69.9227	39.8792	0.57
Mflv_0139	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	39.7411	24.6442	0.62
Mflv_0140	major facilitator superfamily MFS_1	28.2655	34.7652	1.23
Mflv_0141	chaperonin GroEL	2009.43	1096.72	0.55
Mflv_0142	transcriptional regulator, TetR family	17.5893	25.0704	1.43
Mflv_0143	short-chain dehydrogenase/reductase SDR	17.9624	33.096	1.84
Mflv_0144	Cupin 2, conserved barrel domain protein	14.692	26.6737	1.82
Mflv_0145	type III restriction enzyme, res subunit	39.4989	22.6899	0.57

Mflv_0146	conserved hypothetical protein	17.9454	25.2302	1.41
Mflv_0147	transcriptional regulator, Fis family	47.2387	40.5049	0.86
Mflv_0148	family	17.8176	53.6589	3.01
Mflv_0149	membrane-flanked domain	5.9557	29.5274	4.96
Mflv_0150	membrane-flanked domain	83.1634	40.3482	0.49
Mflv_0151	short-chain dehydrogenase/reductase SDR	37.2842	31.1281	0.83
Mflv_0152	molybdopterin molybdochelataase	9.13773	25.4819	2.79
Mflv_0153	phosphatidylserine decarboxylase related protein	20.1307	24.6882	1.23
Mflv_0154	CDP-diacylglycerol-serine O-phosphatidyltransferase	38.5772	46.8088	1.21
Mflv_0155	Vesicle-fusing ATPase	25.6758	30.051	1.17
Mflv_0156	conserved hypothetical protein	101.904	52.5589	0.52
Mflv_0157	hypothetical protein	43.3924	37.9718	0.88
Mflv_0158	hypothetical protein	51.7957	96.1626	1.86
Mflv_0159	protein of unknown function DUF1707	27.854	19.3811	0.70
Mflv_0160	potassium/proton antiporter, CPA1 family	21.0767	45.5975	2.16
Mflv_0161	TrkA-N domain protein	27.9943	36.2541	1.30
Mflv_0162	multisubunit sodium/proton antiporter, MrpB subunit / multisubunit sodium/proton antiporter, MrpA subunit	42.2028	31.3481	0.74
Mflv_0163	multisubunit sodium/proton antiporter, MrpC subunit	18.7809	47.6165	2.54
Mflv_0164	multisubunit sodium/proton antiporter, MrpD subunit	27.2841	46.6831	1.71
Mflv_0165	multisubunit sodium/proton antiporter, MrpE	50.7157	66.0552	1.30
Mflv_0166	multisubunit sodium/proton antiporter, MrpF	45.0991	35.2514	0.78
Mflv_0167	multisubunit sodium/proton antiporter, MrpG	41.2991	34.8585	0.84
Mflv_0168	putative methyltransferase	1745.42	151.841	0.09
Mflv_0169	conserved hypothetical protein	194.692	71.8706	0.37
Mflv_0170	peptidase S16, lon domain protein	27.0119	52.5647	1.95
Mflv_0171	glutamate--cysteine ligase, GCS2	57.3178	71.9134	1.25
Mflv_0172	superoxide dismutase, copper/zinc binding protein	435.541	103.724	0.24
Mflv_0173	putative tuberculin related peptide	264.935	51.2636	0.19
Mflv_0174	transcriptional regulator, Fis family	53.0742	32.7638	0.62
Mflv_0175	peptide deformylase	105.677	49.0039	0.46
Mflv_0176	GCN5-related N-acetyltransferase	24.781	78.6459	3.17
Mflv_0177	Exodeoxyribonuclease III	35.028	115.625	3.30
Mflv_0178	conserved hypothetical protein	42.0486	1652.84	39.31
Mflv_0179	protein of unknown function DUF222	6.8987	39.7742	5.77
Mflv_0180	conserved hypothetical protein	28.1706	25.6604	0.91
Mflv_0181	phosphomethylpyrimidine kinase	17.3545	40.6738	2.34

Mflv_0182	conserved hypothetical protein	7.06656	9.29303	1.32
Mflv_0183	conserved hypothetical protein	25.0763	41.8149	1.67
Mflv_0184	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	72.335	56.0671	0.78
Mflv_0185	conserved hypothetical protein	178.3	142.868	0.80
Mflv_0186	transcriptional regulator, TetR family	62.747	38.301	0.61
Mflv_0187	amino acid/polyamine/organocation transporter, APC superfamily	7.75886	35.4422	4.57
Mflv_0188	uracil-xanthine permease	22.5766	32.9776	1.46
Mflv_0189	aminopeptidase Y. Metallo peptidase. MEROPSfamily M28A	33.3347	41.6796	1.25
Mflv_0190	aminopeptidase Y. Metallo peptidase. MEROPSfamily M28A	48.1006	33.1478	0.69
Mflv_0191	alpha/beta hydrolase fold protein	18.1699	19.0263	1.05
Mflv_0192	putative ABC transporter membrane protein	13.1685	56.2735	4.27
Mflv_0193	ABC transporter related protein	10.1712	17.4777	1.72
Mflv_0194	lipolytic enzyme, G-D-S-L family	17.995	14.2698	0.79
Mflv_0195	thiazole-phosphate synthase	11.8657	20.9107	1.76
Mflv_0196	thiamine biosynthesis protein ThiS	0	51.8484	Pyrene
Mflv_0197	glycine oxidase	25.8591	26.87	1.04
Mflv_0198	thiamine-phosphate diphosphorylase	20.1379	22.3622	1.11
Mflv_0199	8-oxo-dGTPase	151.527	45.1606	0.30
Mflv_0200	putative conserved membrane protein	99.7374	34.2015	0.34
Mflv_0201	amino acid ABC transporter substrate-binding protein, PAAT family	59.5472	29.7489	0.50
Mflv_0202	serine/threonine protein kinase	29.2437	27.3673	0.94
Mflv_0203	anti-sigma-factor antagonist	95.8015	62.2218	0.65
Mflv_0204	acetate kinase	42.3545	65.6243	1.55
Mflv_0205	phosphotransacetylase	39.1616	29.5586	0.75
Mflv_0206	conserved hypothetical protein	33.942	67.2322	1.98
Mflv_0207	conserved hypothetical protein	23.7941	53.4416	2.25
Mflv_0208	conserved hypothetical protein	64.6795	74.4922	1.15
Mflv_0209	conserved hypothetical protein	44.1071	73.8659	1.67
Mflv_0210	Endonuclease/exonuclease/phosphatase	40.0895	66.793	1.67
Mflv_0211	luciferase family protein	72.6931	52.2018	0.72
Mflv_0212	beta-lactamase domain protein	29.5208	23.4162	0.79
Mflv_0213	conserved hypothetical protein	178.768	56.1169	0.31
Mflv_0214	fmnh2-utilizing oxygenase	28.7859	34.8013	1.21
Mflv_0215	luciferase family protein	12.6328	25.1727	1.99
Mflv_0216	fmnh2-utilizing oxygenase	8.20323	27.2852	3.33
Mflv_0217	short-chain dehydrogenase/reductase SDR	29.3221	23.7065	0.81
Mflv_0218	conserved hypothetical protein	53.8198	65.7191	1.22

Mflv_0219	O-succinylhomoserine sulfhydrylase	43.6061	57.4725	1.32
Mflv_0220	Rhodanese domain protein	174.181	26.4374	0.15
Mflv_0221	conserved hypothetical protein	36.9694	52.018	1.41
Mflv_0222	phosphoribosylglycinamide formyltransferase	60.8164	39.0599	0.64
Mflv_0223	transcriptional regulator, MarR family	119.846	27.7838	0.23
Mflv_0224	MMPL domain protein	11.435	28.6684	2.51
Mflv_0225	cytochrome P450	19.0069	22.9126	1.21
Mflv_0226	conserved hypothetical protein	27.5094	56.3489	2.05
Mflv_0227	thioesterase superfamily protein	42.8653	28.2753	0.66
Mflv_0228	Adenylosuccinate synthetase	94.5484	68.9479	0.73
Mflv_0229	conserved hypothetical protein	0.835662	8.53887	10.22
Mflv_0230	peptidase M50	10.9247	35.1919	3.22
Mflv_0231	cation diffusion facilitator family transporter	220.603	47.6118	0.22
Mflv_0232	conserved hypothetical protein	95.6667	33.1888	0.35
Mflv_0233	conserved hypothetical protein	103.218	31.9719	0.31
Mflv_0234	fructose-bisphosphate aldolase	44.2956	47.1846	1.07
Mflv_0235	hypothetical protein	19.217	57.9784	3.02
Mflv_0236	Alcohol dehydrogenase GroES domain protein	44.5467	39.2053	0.88
Mflv_0237	conserved hypothetical protein	318.214	88.3558	0.28
Mflv_0238	sodium/proton antiporter, NhaA family	36.4296	50.3586	1.38
Mflv_0239	glycoside hydrolase, family 76	40.0087	21.4204	0.54
Mflv_0240	family	98.1715	19.1849	0.20
Mflv_0241	major facilitator superfamily MFS_1	15.5337	50.2556	3.24
Mflv_0242	tRNA/rRNA methyltransferase (SpoJ)	18.0055	44.5	2.47
Mflv_0243	conserved hypothetical protein	26.6596	27.6326	1.04
Mflv_0244	short-chain dehydrogenase/reductase SDR	108.975	42.9864	0.39
Mflv_0245	Pseudogene	599.416	95.8581	0.16
Mflv_0246	ATPase AAA-2 domain protein	700.159	1229.59	1.76
Mflv_0247	adenylate cyclase	44.0127	38.2464	0.87
Mflv_0248	Na <sup>+</sup> /solute symporter	14.1347	39.5288	2.80
Mflv_0249	hypothetical protein	0	22.6688	Pyrene
Mflv_0250	thermophilic desulfurizing enzyme	17.6781	32.8806	1.86
Mflv_0251	glyoxalase/bleomycin resistance protein/dioxygenase	23.422	24.9095	1.06
Mflv_0252	conserved hypothetical protein	30.387	40.0386	1.32
Mflv_0253	transcriptional regulator, TetR family	88.6596	42.6117	0.48
Mflv_0254	conserved hypothetical protein	8.74429	36.5667	4.18
Mflv_0255	protein	26.7899	24.0248	0.90
Mflv_0256	Aldose 1-epimerase	57.6528	44.7722	0.78
Mflv_0257	family	346.878	302.563	0.87

Mflv_0258	chaperone protein DnaJ	997.814	1616.14	1.62
Mflv_0259	GrpE protein	851.818	2041.19	2.40
Mflv_0260	chaperone protein DnaK	1995.81	1758.79	0.88
Mflv_0261	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	708.306	43.7619	0.06
Mflv_0262	pyruvate kinase	22.1466	26.4813	1.20
Mflv_0263	conserved hypothetical protein	29.4039	29.8502	1.02
Mflv_0264	putative lipoprotein LpqJ	42.7823	32.8767	0.77
Mflv_0265	dihydrolipoamide dehydrogenase	101.994	30.113	0.30
Mflv_0266	glucose-6-phosphate 1-dehydrogenase	40.9311	41.3097	1.01
Mflv_0267	conserved hypothetical protein	62.1394	41.9274	0.67
Mflv_0268	luciferase family protein	47.7606	35.3769	0.74
Mflv_0269	conserved hypothetical protein	133.915	46.148	0.34
Mflv_0270	conserved hypothetical protein	218.637	38.8477	0.18
Mflv_0271	conserved hypothetical proline rich protein	224.116	58.8516	0.26
Mflv_0272	isoniazid inducible protein IniC	41.8449	30.1565	0.72
Mflv_0273	conserved hypothetical protein	82.2187	55.269	0.67
Mflv_0274	conserved hypothetical protein	719.623	289.627	0.40
Mflv_0275	conserved hypothetical protein	1258.63	74.0689	0.06
Mflv_0276	conserved hypothetical proline and threonine rich protein	28.9014	28.4802	0.99
Mflv_0277	transcriptional regulator, LuxR family	10.1821	24.2749	2.38
Mflv_0278	protein of unknown function DUF224, cysteine-rich region domain protein	127.969	35.8887	0.28
Mflv_0279	L-aspartate aminotransferase apoenzyme	103.876	54.7393	0.53
Mflv_0280	hypothetical protein	21.9541	46.0804	2.10
Mflv_0281	YibE/F family protein	26.6591	48.5827	1.82
Mflv_0282	2Fe-2S)-binding domain protein	815.274	45.5282	0.06
Mflv_0283	molybdopterin dehydrogenase, FAD-binding protein	69.549	55.9595	0.80
Mflv_0284	xanthine dehydrogenase, molybdenum binding subunit apoprotein	55.2756	33.8739	0.61
Mflv_0285	Glucose-1-phosphate thymidyltransferase	75.0507	34.1913	0.46
Mflv_0286	conserved hypothetical protein	35.6773	51.4306	1.44
Mflv_0287	protein of unknown function DUF1503	40.0447	51.1727	1.28
Mflv_0288	cytochrome P450	68.4864	40.6572	0.59
Mflv_0289	UDP-glucose 6-dehydrogenase	94.5039	32.441	0.34
Mflv_0290	conserved hypothetical protein	355.435	55.6971	0.16
Mflv_0291	deoxycytidine triphosphate deaminase	164.425	64.3898	0.39
Mflv_0292	hypothetical protein	14.3739	127.978	8.90
Mflv_0293	filamentation induced by cAMP protein Fic	94.6142	37.3822	0.40
Mflv_0294	hypothetical protein	15.7548	63.5984	4.04



Mflv_0295	short-chain dehydrogenase/reductase SDR	17.6209	27.1442	1.54
Mflv_0296	short-chain dehydrogenase/reductase SDR	18.5665	24.9211	1.34
Mflv_0297	transcriptional regulator, TetR family	23.9044	27.3592	1.14
Mflv_0298	glycoside hydrolase, family 16	129.05	37.5755	0.29
Mflv_0299	Lipocalin family protein	28.9526	21.8981	0.76
Mflv_0300	PGAP1 family protein	73.2414	27.0682	0.37
Mflv_0301	drug resistance transporter, EmrB/QacA subfamily	31.4805	38.0883	1.21
Mflv_0302	conserved hypothetical protein	150.226	38.9213	0.26
Mflv_0303	Endonuclease/exonuclease/phosphatase	9.53526	16.4834	1.73
Mflv_0304	monooxygenase, FAD-binding protein	26.6346	19.9728	0.75
Mflv_0305	short-chain dehydrogenase/reductase SDR	23.5791	34.8008	1.48
Mflv_0306	conserved hypothetical protein	42.3943	21.4305	0.51
Mflv_0307	malate dehydrogenase (NAD)	23.5058	22.5796	0.96
Mflv_0308	conserved hypothetical proline and threonine rich protein	13.4711	25.8062	1.92
Mflv_0309	conserved hypothetical protein	73.2704	37.325	0.51
Mflv_0310	putative conserved exported protein	19.6115	29.5903	1.51
Mflv_0311	phosphoesterase, PA-phosphatase related protein	21.7993	34.4639	1.58
Mflv_0312	phosphoesterase, PA-phosphatase related protein	50.8488	52.0066	1.02
Mflv_0313	conserved hypothetical protein	94.1872	58.408	0.62
Mflv_0314	protein of unknown function DUF222	15.0488	31.247	2.08
Mflv_0315	transposase, IS204/IS1001/IS1096/IS1165 family protein	2.23156	3.7814	1.69
Mflv_0316	Trans-aconitate 2-methyltransferase	33.25	36.3768	1.09
Mflv_0317	conserved hypothetical protein	25.4103	28.717	1.13
Mflv_0318	conserved hypothetical protein	0	0	-
Mflv_0319	putative conserved transmembrane protein	12.6407	73.1176	5.78
Mflv_0320	peptidase S8 and S53, subtilisin, kexin, sedolisin	8.59688	28.8749	3.36
Mflv_0321	protein of unknown function DUF571	4.83442	36.5771	7.57
Mflv_0322	putative DNA-binding protein	13.72	45.9305	3.35
Mflv_0323	conserved hypothetical protein	36.0023	126.894	3.52
Mflv_0324	conserved hypothetical protein	0	69.8731	Pyrene
Mflv_0325	PPE protein	3.46381	32.2701	9.32
Mflv_0326	PE domain protein	0	25.2427	Pyrene
Mflv_0327	cell division protein FtsK/SpoIIIE	11.5647	42.4071	3.67
Mflv_0328	protein of unknown function DUF690	7.40819	53.0069	7.16
Mflv_0329	AAA ATPase, central domain protein	22.5643	45.9985	2.04
Mflv_0330	conserved hypothetical protein	46.8888	29.1769	0.62
Mflv_0331	family	67.6283	20.735	0.31

Mflv_0332	Glyoxalase/bleomycin resistance protein/dioxygenase	79.5793	37.2338	0.47
Mflv_0333	conserved hypothetical protein	21.2762	32.6831	1.54
Mflv_0334	D-isomer specific 2-hydroxyacid dehydrogenase,NAD-binding protein	13.5787	24.8935	1.83
Mflv_0335	acyl-CoA dehydrogenase domain protein	17.0524	22.0982	1.30
Mflv_0336	hypothetical protein	4440.71	1419.8	0.32
Mflv_0337	Cupin 4 family protein	508.186	58.6921	0.12
Mflv_0338	Sucraseferredoxin family protein	87.1885	22.8863	0.26
Mflv_0339	amine oxidase	24.2793	21.4788	0.88
Mflv_0340	conserved hypothetical protein	932.815	67.7282	0.07
Mflv_0341	AMP-dependent synthetase and ligase	175.339	51.6122	0.29
Mflv_0342	DNA primase, small subunit	19.4538	22.3753	1.15
Mflv_0343	anti-sigma-factor antagonist	1186.3	126.273	0.11
Mflv_0344	acyl-CoA dehydrogenase domain protein	52.8261	49.6417	0.94
Mflv_0345	acyl-CoA dehydrogenase domain protein	45.2914	59.101	1.30
Mflv_0346	Xanthine/uracil/vitamin C permease	31.6692	41.0842	1.30
Mflv_0347	sulfite reductase (NADPH) alpha subunit	12.5486	34.7941	2.77
Mflv_0348	conserved hypothetical protein	16.5693	68.6574	4.14
Mflv_0349	Diacylglycerol O-acyltransferase	18.0341	42.1366	2.34
Mflv_0350	transcriptional regulator, TetR family	142.869	42.3239	0.30
Mflv_0351	amidohydrolase 2	14.4764	27.822	1.92
Mflv_0352	precorrin-4 C11-methyltransferase	11.604	19.8575	1.71
Mflv_0353	cob(II)yrinic acid a,c-diamide reductase	17.6599	18.7948	1.06
Mflv_0354	Radical SAM domain protein	40.2615	21.991	0.55
Mflv_0355	adenosylcobinamide kinase	2.48985	29.0223	11.66
Mflv_0356	purine catabolism PurC domain protein	10.8691	35.0844	3.23
Mflv_0357	methylmalonate-semialdehyde dehydrogenase	22.4096	37.6582	1.68
Mflv_0358	aminotransferase	10.4182	22.6049	2.17
Mflv_0359	precorrin-6A reductase	8.37547	20.952	2.50
Mflv_0360	adenosylcobyrinic acid synthase (glutamine-hydrolysing)	20.7206	34.4724	1.66
Mflv_0361	precorrin-6A synthase (deacetylating)	7.74226	18.5608	2.40
Mflv_0362	transcriptional regulator, LysR family	10.4708	26.5988	2.54
Mflv_0363	cytochrome P450	9.35578	27.961	2.99
Mflv_0364	transcriptional regulator, TetR family	21.5117	45.8107	2.13
Mflv_0365	conserved hypothetical protein	17.4793	34.034	1.95
Mflv_0366	transcriptional regulator, TetR family	46.8528	50.3269	1.07
Mflv_0367	NAD-dependent epimerase/dehydratase	17.7007	32.428	1.83
Mflv_0368	hypothetical protein	0	11.8528	Pyrene
Mflv_0369	conserved hypothetical protein	72.8253	47.5014	0.65

Mflv_0370	conserved hypothetical protein	4689.31	703.713	0.15
Mflv_0371	conserved hypothetical protein	27.7367	29.7487	1.07
Mflv_0372	conserved hypothetical protein	279.642	31.2477	0.11
Mflv_0373	Lysine exporter protein (LYSE/YGGA)	22.8797	17.7354	0.78
Mflv_0374	conserved hypothetical protein	0.655328	13.5254	20.64
Mflv_0375	periplasmic binding protein	40.3207	34.914	0.87
Mflv_0376	conserved hypothetical integral membrane protein	91.7752	58.3605	0.64
Mflv_0377	Allophanate hydrolase subunit 1	41.5438	19.4178	0.47
Mflv_0378	urea amidolyase related protein	41.088	42.8583	1.04
Mflv_0379	GCN5-related N-acetyltransferase	198.413	87.3345	0.44
Mflv_0380	Uroporphyrinogen III synthase HEM4	46.141	31.2388	0.68
Mflv_0381	cobalamin (vitamin B12) biosynthesis CbiX protein	7.23601	37.0163	5.12
Mflv_0382	Integrase, catalytic region	99.5357	59.2533	0.60
Mflv_0383	4Fe-4S ferredoxin, iron-sulfur binding domain protein	4043.95	39.7357	0.01
Mflv_0384	Integrase, catalytic region	8.30785	22.9494	2.76
Mflv_0385	conserved hypothetical protein	28.9252	157.741	5.45
Mflv_0386	nitrite reductase (NAD(P)H), small subunit	32.7066	37.707	1.15
Mflv_0387	assimilatory nitrite reductase (NAD(P)H) large subunit precursor	23.6491	44.5954	1.89
Mflv_0388	heat shock protein Hsp20	695.956	1247.37	1.79
Mflv_0389	conserved hypothetical protein	150.62	43.1724	0.29
Mflv_0390	UspA domain protein	10.7168	36.3193	3.39
Mflv_0391	conserved hypothetical protein	47.546	41.276	0.87
Mflv_0392	conserved hypothetical protein	37.007	44.7273	1.21
Mflv_0393	putative succinate dehydrogenase (membrane anchor subunit) (succinic dehydrogenase)	73.5409	68.7501	0.93
Mflv_0394	succinate dehydrogenase subunit A	81.2421	68.7722	0.85
Mflv_0395	succinate dehydrogenase subunit B	135.279	120.109	0.89
Mflv_0396	conserved hypothetical protein	121.208	26.9566	0.22
Mflv_0397	transcriptional regulator, AsnC family	40.0539	32.6091	0.81
Mflv_0398	acyl-CoA dehydrogenase domain protein	21.9951	33.949	1.54
Mflv_0399	flavin reductase domain protein, FMN-binding protein	108.973	70.9144	0.65
Mflv_0400	conserved hypothetical protein	11.4799	33.358	2.91
Mflv_0401	PE-PPE, C-terminal domain protein	79.1162	47.9253	0.61
Mflv_0402	AMP-dependent synthetase and ligase	19.7863	28.3235	1.43
Mflv_0403	Transport protein	30.2194	42.5708	1.41
Mflv_0404	condensation domain protein	31.5582	59.2286	1.88
Mflv_0405	beta-ketoacyl synthase	24.871	25.9172	1.04

Mflv_0406	TspO-and MBR-like protein	123.048	38.546	0.31
Mflv_0407	short-chain dehydrogenase/reductase SDR	28.2825	24.8959	0.88
Mflv_0408	dihydrodipicolinate reductase	22.5524	37.8024	1.68
Mflv_0409	acyl-CoA dehydrogenase domain protein	2106.76	685.715	0.33
Mflv_0410	luciferase family protein	146.358	33.0867	0.23
Mflv_0411	acetyl-CoA acetyltransferase	207.91	57.1004	0.27
Mflv_0412	short-chain dehydrogenase/reductase SDR	156.579	36.5402	0.23
Mflv_0413	MaoC domain protein dehydratase	128.659	58.1886	0.45
Mflv_0414	transcriptional regulator, TetR family	130.031	48.5737	0.37
Mflv_0415	Beta-N-acetylhexosaminidase	67.9582	34.5216	0.51
Mflv_0416	UspA domain protein	37.6285	45.4105	1.21
Mflv_0417	small secreted protein	0	29.3679	Pyrene
Mflv_0418	putative conserved transmembrane protein	11.0578	32.1036	2.90
Mflv_0419	AMP-dependent synthetase and ligase	25.2319	31.0099	1.23
Mflv_0420	acyltransferase 3	30.1809	32.0142	1.06
Mflv_0421	conserved hypothetical protein	143.88	69.4827	0.48
Mflv_0422	conserved hypothetical protein	14.4729	56.0681	3.87
Mflv_0423	conserved hypothetical protein	19.2783	43.0469	2.23
Mflv_0424	conserved hypothetical protein	0	11.6242	Pyrene
Mflv_0425	cytochrome P450	7.57765	33.5058	4.42
Mflv_0426	glycosyl transferase, group 1	19.9814	29.1161	1.46
Mflv_0427	Methyltransferase type 11	27.1536	15.6346	0.58
Mflv_0428	Betaine-aldehyde dehydrogenase	60.2612	88.5819	1.47
Mflv_0429	conserved hypothetical protein	66.7386	46.5568	0.70
Mflv_0430	acyl-CoA dehydrogenase domain protein	33.311	28.779	0.86
Mflv_0431	protein	7.05338	26.8702	3.81
Mflv_0432	transcriptional regulator, AraC family	5.43532	31.2739	5.75
Mflv_0433	Arylamine N-acetyltransferase	16.106	65.889	4.09
Mflv_0434	phospholipid/glycerol acyltransferase	48.4293	38.2635	0.79
Mflv_0435	AMP-dependent synthetase and ligase	21.6275	31.8681	1.47
Mflv_0436	Alpha/beta hydrolase fold-3 domain protein	177.16	44.954	0.25
Mflv_0437	transcriptional regulator, TetR family	36.5726	20.0467	0.55
Mflv_0438	conserved hypothetical protein	92.3609	49.9151	0.54
Mflv_0439	Diacylglycerol O-acyltransferase	64.0646	48.7725	0.76
Mflv_0440	Alpha/beta hydrolase fold-3 domain protein	190.36	44.2077	0.23
Mflv_0441	acyl-CoA dehydrogenase domain protein	61.5296	23.3638	0.38
Mflv_0442	Alpha/beta hydrolase fold-3 domain protein	22.8052	28.8542	1.27
Mflv_0443	Amidohydrolase 3	16.3646	23.8594	1.46
Mflv_0444	conserved hypothetical protein	12.4228	19.2567	1.55
Mflv_0445	conserved hypothetical protein	42.592	28.3363	0.67

Mflv_0446	Butyryl-CoA dehydrogenase	18.8827	16.7202	0.89
Mflv_0447	transcriptional regulator, GntR family	11.6411	20.576	1.77
Mflv_0448	Enoyl-CoA hydratase/isomerase	23.2835	35.0365	1.50
Mflv_0449	AMP-dependent synthetase and ligase	29.5865	50.4443	1.70
Mflv_0450	transposase IS116/IS110/IS902 family protein	6.77015	4.93183	0.73
Mflv_0451	Phosphoenolpyruvate carboxykinase (GTP)	233.874	79.4481	0.34
Mflv_0452	conserved hypothetical protein	0.320555	14.9709	46.70
Mflv_0453	conserved hypothetical protein	1.43447	21.2926	14.84
Mflv_0454	tRNA (guanine-N(7)-)-methyltransferase	48.6741	29.3793	0.60
Mflv_0455	conserved hypothetical protein	70.7673	31.1598	0.44
Mflv_0456	drug exporters of the RND superfamily-like protein	94.0689	80.8071	0.86
Mflv_0457	protein of unknown function UPF0118	28.5867	49.1827	1.72
Mflv_0458	conserved hypothetical protein 374	108.158	44.7041	0.41
Mflv_0459	putative conserved transmembrane protein	35.5276	25.469	0.72
Mflv_0460	integral membrane sensor signal transduction histidine kinas	19.6327	33.9893	1.73
Mflv_0461	two component transcriptional regulator, winged helix family	101.57	60.6412	0.60
Mflv_0462	conserved hypothetical protein	167.519	109.426	0.65
Mflv_0463	transcriptional regulator, fis family	27.9506	23.2687	0.83
Mflv_0464	MmpL11	36.5133	37.1587	1.02
Mflv_0465	conserved hypothetical protein	35.8808	32.1204	0.90
Mflv_0466	glycosyltransferase, MGT family	17.3243	26.5346	1.53
Mflv_0467	MMPL domain protein	55.2701	39.3593	0.71
Mflv_0468	conserved hypothetical protein	9.78092	31.4162	3.21
Mflv_0469	putative conserved transmembrane protein	3.58542	20.3871	5.69
Mflv_0470	conserved hypothetical protein	78.742	20.7634	0.26
Mflv_0471	bifunctional deaminase-reductase domain protein	44.1989	38.4136	0.87
Mflv_0472	endothelin-converting enzyme. Metallo peptidase.MEROPS family M13	225.728	52.1098	0.23
Mflv_0473	putative thiol-disulfide oxidoreductase DCC	4651.54	165.618	0.04
Mflv_0474	conserved hypothetical protein	9.67473	41.482	4.29
Mflv_0475	protein of unknown function DUF58	6.09466	26.1093	4.28
Mflv_0476	ATPase associated with various cellular activities, AAA_3	5.40296	24.7863	4.59
Mflv_0477	conserved hypothetical protein	10.2428	29.9704	2.93
Mflv_0478	conserved hypothetical protein	12.0153	32.7236	2.72
Mflv_0479	ErfK/YbiS/YcS/YnhG family protein	241.553	75.4594	0.31
Mflv_0480	protein of unknown function DUF77	61.3598	76.947	1.25
Mflv_0481	Integrase, catalytic region	22.7793	36.9215	1.62

Mflv_0482	Pseudogene	0	0	-
Mflv_0483	glycosyl transferase, group 1	3.50884	26.5186	7.56
Mflv_0484	protein of unknown function DUF156	14.8085	37.9189	2.56
Mflv_0485	protein of unknown function DUF305	78.6583	26.452	0.34
Mflv_0486	dihydroxy-acid dehydratase	108.86	42.1953	0.39
Mflv_0487	conserved hypothetical protein	96.0099	31.1695	0.32
Mflv_0488	conserved hypothetical protein	437.453	28.0953	0.06
Mflv_0489	conserved hypothetical protein	89.7024	32.1585	0.36
Mflv_0490	conserved hypothetical protein	56.9486	80.7419	1.42
Mflv_0491	conserved hypothetical protein	2106.54	293.828	0.14
Mflv_0492	transcriptional regulator, TetR family	22.1609	29.5363	1.33
Mflv_0493	phosphoenolpyruvate synthase	12.5825	33.6379	2.67
Mflv_0494	NADP oxidoreductase, coenzyme F420-dependent	74.1513	60.47	0.82
Mflv_0495	beta-lactamase	39.6303	30.9767	0.78
Mflv_0496	DNA topoisomerase (ATP-hydrolyzing)	41.259	31.2716	0.76
Mflv_0497	DNA gyrase/topoisomerase IV, subunit A	34.1755	54.8769	1.61
Mflv_0498	protein of unknown function DUF861, cupin_3	39.0958	38.462	0.98
Mflv_0499	conserved hypothetical protein	50.1416	50.215	1.00
Mflv_0500	thioredoxin	18.8491	56.7085	3.01
Mflv_0501	transcriptional regulator, GntR family	32.973	35.2842	1.07
Mflv_0502	gluconate kinase, SKI family	77.7897	41.6921	0.54
Mflv_0503	gluconate transporter	40.0907	35.9105	0.90
Mflv_0504	twin-arginine translocation pathway signalling protein	35.008	30.7859	0.88
Mflv_0505	conserved hypothetical protein	11.5598	19.0174	1.65
Mflv_0506	protein	14.7382	49.8814	3.38
Mflv_0507	conserved hypothetical ABC transporter periplasmic solute-binding protein	16.14	48.4067	3.00
Mflv_0508	conserved hypothetical protein	145.611	55.8398	0.38
Mflv_0509	cyclase/dehydrase	513.091	92.2357	0.18
Mflv_0510	conserved hypothetical protein	81.4222	49.8184	0.61
Mflv_0511	conserved hypothetical protein	16.4267	27.9922	1.70
Mflv_0512	FAD linked oxidase domain protein	0	9.52477	Pyrene
Mflv_0513	transposase, IS4 family	5.22713	19.2265	3.68
Mflv_0514	O-methyltransferase, family 3	116.67	64.3479	0.55
Mflv_0515	conserved hypothetical protein	2.84565	33.1771	11.66
Mflv_0516	conserved hypothetical protein	23.9549	24.0514	1.00
Mflv_0517	putative secreted protein	18.0466	36.7304	2.04
Mflv_0518	Acylglycerol lipase	41.1572	51.2544	1.25
Mflv_0519	family	83.3356	57.3107	0.69

Mflv_0520	transcriptional regulator, MarR family	23.683	77.7434	3.28
Mflv_0521	protein of unknown function DUF732	50.671	151.816	3.00
Mflv_0522	Cupin 2, conserved barrel domain protein	261.47	397.398	1.52
Mflv_0523	conserved hypothetical protein	161.888	165.254	1.02
Mflv_0524	NAD-dependent aldehyde dehydrogenases-like protein	148.913	226.062	1.52
Mflv_0525	butyryl-CoA:acetate CoA transferase	89.3804	249.087	2.79
Mflv_0526	3-oxoadipate CoA-transferase alpha subunit	84.8482	218.528	2.58
Mflv_0527	4-carboxymuconolactone decarboxylase / 3-oxoadipate enol-lactonase	79.7973	226.828	2.84
Mflv_0528	3-carboxy-cis,cis-muconate cycloisomerase	44.7264	118.165	2.64
Mflv_0529	protocatechuate 3,4-dioxygenase, alpha subunit	59.9872	165.727	2.76
Mflv_0530	protocatechuate 3,4-dioxygenase, beta subunit	128.924	228.167	1.77
Mflv_0531	regulatory protein, lclR	199.99	62.8343	0.31
Mflv_0532	dihydrodipicolinate synthetase	177.073	201.615	1.14
Mflv_0533	ketopantoate reductase	58.6726	257.316	4.39
Mflv_0534	transcriptional regulator, AraC family	260.323	216.784	0.83
Mflv_0535	Pseudogene	0	0	-
Mflv_0536	aromatic-ring-hydroxylating dioxygenase, beta subunit	56.305	543.368	9.65
Mflv_0537	ring hydroxylating dioxygenase, alpha subunit	31.2979	415.002	13.26
Mflv_0538	Glyoxalase/bleomycin resistance protein/dioxygenase	12.6941	184.619	14.54
Mflv_0539	short-chain dehydrogenase/reductase SDR	5.16038	98.7848	19.14
Mflv_0540	3,4-dihydroxyphthalate decarboxylase	0	0	-
Mflv_0541	Extradiol ring-cleavage dioxygenase, class III enzyme, subunit B	0	0	-
Mflv_0542	oxidoreductase domain protein	0	0	-
Mflv_0543	aromatic-ring-hydroxylating dioxygenase, beta subunit	0	0	-
Mflv_0544	Rieske (2Fe-2S) domain protein	14.9511	57.8991	3.87
Mflv_0545	alpha/beta hydrolase fold protein	0	0	-
Mflv_0546	transcriptional regulator, MarR family	14.2373	59.0847	4.15
Mflv_0547	6-phosphogluconate dehydrogenase, NAD-binding protein	0	0	-
Mflv_0548	Cupin 2, conserved barrel domain protein	0	0	-
Mflv_0549	aromatic-ring-hydroxylating dioxygenase, beta subunit	0	0	-
Mflv_0550	ring hydroxylating dioxygenase, alpha subunit	0	0	-
Mflv_0551	conserved hypothetical protein	0	27.419	Pyrene
Mflv_0552	conserved hypothetical protein	0	0	-

Mflv_0553	protein of unknown function DUF35	0	0	-
Mflv_0554	putative nonspecific lipid-transfer protein	0	0	-
Mflv_0555	L-carnitine dehydratase/bile acid-inducible protein F	0	0	-
Mflv_0556	Alcohol dehydrogenase, zinc-binding domain protein	0	0	-
Mflv_0557	aromatic-ring-hydroxylating dioxygenase, beta subunit	0	0	-
Mflv_0558	ring hydroxylating dioxygenase, alpha subunit	0	0	-
Mflv_0559	Integrase, catalytic region	0	0	-
Mflv_0560	transposase IS3/IS911 family protein	0	0	-
Mflv_0561	Epoxide hydrolase domain protein	0	0	-
Mflv_0562	aromatic-ring-hydroxylating dioxygenase, beta subunit	0	0	-
Mflv_0563	Rieske (2Fe-2S) domain protein	0	0	-
Mflv_0564	conserved hypothetical protein	0	0	-
Mflv_0565	Alcohol dehydrogenase, zinc-binding domain protein	0	0	-
Mflv_0566	short-chain dehydrogenase/reductase SDR	0	0	-
Mflv_0567	ring hydroxylating dioxygenase, alpha subunit	2.48114	37.7852	15.23
Mflv_0568	aromatic-ring-hydroxylating dioxygenase, beta subunit	89.7952	798.46	8.89
Mflv_0569	Aldehyde dehydrogenase (NAD(+))	0	0	-
Mflv_0570	4Fe-4S ferredoxin, iron-sulfur binding domain protein	0	0	-
Mflv_0571	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	8.09933	58.3221	7.20
Mflv_0572	aromatic-ring-hydroxylating dioxygenase, beta subunit	163.208	736.659	4.51
Mflv_0573	Pseudogene	24.7509	72.7023	2.94
Mflv_0574	Integrase, catalytic region	0	0	-
Mflv_0575	transposase IS3/IS911 family protein	0	0	-
Mflv_0576	Integrase, catalytic region	0	4.62626	Pyrene
Mflv_0577	transposase IS3/IS911 family protein	0	69.6578	Pyrene
Mflv_0578	integrase, catalytic region	27.4797	236.175	8.59
Mflv_0579	IstB domain protein ATP-binding protein	17.6473	48.9626	2.77
Mflv_0580	phage integrase family protein	37.4583	70.5193	1.88
Mflv_0581	conserved hypothetical protein	186.688	167.758	0.90
Mflv_0582	phage integrase family protein	69.1148	78.1254	1.13
Mflv_0583	IS21 family element, transposase IstB	0	59.7201	Pyrene
Mflv_0584	Pseudogene	0	0	-
Mflv_0585	dihydrodipicolinate synthetase	37.5331	563.273	15.01



Mflv_0586	conserved hypothetical protein	0	0	-
Mflv_0587	Glyoxalase/bleomycin resistance protein/dioxygenase	0	0.382789	Pyrene
Mflv_0588	dihydrodipicolinate synthetase	0	0	-
Mflv_0589	1-hydroxy-2-naphthoate dioxygenase / gentisate 1,2-dioxygenase	304.427	334.912	1.10
Mflv_0590	phthalate 3,4-dioxygenase, ferredoxin reductase subunit	0	0	-
Mflv_0591	conserved hypothetical protein	0	0	-
Mflv_0592	phthalate 3,4-dihydrodiol dehydrogenase	0	0	-
Mflv_0593	conserved hypothetical protein	727.86	265.024	0.36
Mflv_0594	phthalate 3,4-dioxygenase, beta subunit	37.088	789.681	21.29
Mflv_0595	phthalate 3,4-dioxygenase, alpha subunit	96.1006	684.868	7.13
Mflv_0596	Transcriptional regulator PhtR / transcriptional regulator, lclR family	109.352	89.8328	0.82
Mflv_0597	integrase, catalytic region	32.8509	99.7841	3.04
Mflv_0598	transposase, IS4 family	0	0	-
Mflv_0599	integrase, catalytic region	30.6837	41.7352	1.36
Mflv_0600	transcriptional regulator, Fis family	142.435	88.5871	0.62
Mflv_0601	Pseudogene	27.0572	95.2849	3.52
Mflv_0602	transposase IS3/IS911 family protein	0	150.511	Pyrene
Mflv_0603	Integrase, catalytic region	39.6328	104.521	2.64
Mflv_0604	transposase subunit	79.3255	66.8651	0.84
Mflv_0605	transcriptional regulator, ArsR family	0	0	-
Mflv_0606	heavy metal translocating P-type ATPase	0	0	-
Mflv_0607	hypothetical protein	0	45.5193	Pyrene
Mflv_0608	Integrase, catalytic region	0	0	-
Mflv_0609	transposase IS3/IS911 family protein	0	0	-
Mflv_0610	cadmium resistance transporter	0	0	-
Mflv_0611	conserved hypothetical protein	0	0	-
Mflv_0612	ATP/GTP-binding protein	0	0	-
Mflv_0613	Integrase, catalytic region	0	0	-
Mflv_0614	conserved hypothetical protein	159.407	128.703	0.81
Mflv_0615	transposase subunit	477.576	130.405	0.27
Mflv_0616	transposase IS3/IS911 family protein	1134.17	1664.65	1.47
Mflv_0617	hypothetical protein	281.204	1326.58	4.72
Mflv_0618	Glyoxalase/bleomycin resistance protein/dioxygenase	49.0896	181.17	3.69
Mflv_0619	transposase IS3/IS911 family protein	0	0	-
Mflv_0620	Integrase, catalytic region	0	0	-
Mflv_0621	short-chain dehydrogenase/reductase SDR	9.87699	68.9851	6.98
Mflv_0622	3,4-dihydroxyphthalate decarboxylase	0	0	-

Mflv_0623	Extradiol ring-cleavage dioxygenase, class III enzyme, subunit B	0	0	-
Mflv_0624	4,5-dihydroxyphthalate dehydrogenase	0	0	-
Mflv_0625	aromatic-ring-hydroxylating dioxygenase, beta subunit	0	0	-
Mflv_0626	Rieske (2Fe-2S) domain protein	11.0537	104.382	9.44
Mflv_0627	alpha/beta hydrolase fold protein	0	0	-
Mflv_0628	transcriptional regulator, MarR family	71.7127	30.9699	0.43
Mflv_0629	6-phosphogluconate dehydrogenase, NAD-binding protein	0	0	-
Mflv_0630	Cupin 2, conserved barrel domain protein	0	0	-
Mflv_0631	aromatic-ring-hydroxylating dioxygenase, beta subunit	0	0	-
Mflv_0632	ring hydroxylating dioxygenase, alpha subunit	0	0	-
Mflv_0633	conserved hypothetical protein	0	20.5643	Pyrene
Mflv_0634	conserved hypothetical protein	0	0	-
Mflv_0635	protein of unknown function DUF35	0	0	-
Mflv_0636	putative nonspecific lipid-transfer protein	0	0	-
Mflv_0637	L-carnitine dehydratase/bile acid-inducible protein F	0	0	-
Mflv_0638	Alcohol dehydrogenase, zinc-binding domain protein	0	0	-
Mflv_0639	aromatic-ring-hydroxylating dioxygenase, beta subunit	0	0	-
Mflv_0640	ring hydroxylating dioxygenase, alpha subunit	0	0	-
Mflv_0641	transcriptional regulator, MarR family	305.663	99.9389	0.33
Mflv_0642	drug resistance transporter, EmrB/QacA subfamily	568.572	238.267	0.42
Mflv_0643	aldehyde dehydrogenase	105.15	515.384	4.90
Mflv_0644	Epoxide hydrolase domain protein	0	0	-
Mflv_0645	conserved hypothetical protein	172.377	336.582	1.95
Mflv_0646	conserved hypothetical protein	39.5837	330.821	8.36
Mflv_0647	virulence factor Mce family protein	35.592	161.195	4.53
Mflv_0648	virulence factor Mce family protein	52.5738	315.573	6.00
Mflv_0649	virulence factor Mce family protein	60.7592	211.872	3.49
Mflv_0650	virulence factor Mce family protein	63.8475	159.898	2.50
Mflv_0651	virulence factor Mce family protein	69.3076	243.158	3.51
Mflv_0652	virulence factor Mce family protein	52.5697	255.169	4.85
Mflv_0653	protein of unknown function DUF140	29.6021	414.599	14.01
Mflv_0654	protein of unknown function DUF140	83.7211	529.914	6.33
Mflv_0655	intradiol ring-cleavage dioxygenase	74.7082	553.573	7.41
Mflv_0656	Sterol-binding domain protein	249.502	852.561	3.42

Mflv_0657	aromatic-ring-hydroxylating dioxygenase, beta subunit	0	0	-
Mflv_0658	Rieske (2Fe-2S) domain protein	0	0	-
Mflv_0659	conserved hypothetical protein	0	0	-
Mflv_0660	L-threonine 3-dehydrogenase	0	0	-
Mflv_0661	short-chain dehydrogenase/reductase SDR	0	0	-
Mflv_0662	ring hydroxylating dioxygenase, alpha subunit	0.276157	46.2623	167.52
Mflv_0663	aromatic-ring-hydroxylating dioxygenase, beta subunit	61.2232	965	15.76
Mflv_0664	Pseudogene	61.239	134.634	2.20
Mflv_0665	Integrase, catalytic region	57.0068	97.6231	1.71
Mflv_0666	conserved hypothetical protein	0	0	-
Mflv_0667	Aldehyde dehydrogenase (NAD(+))	0	0	-
Mflv_0668	4Fe-4S ferredoxin, iron-sulfur binding domain protein	0	0	-
Mflv_0669	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	0	0	-
Mflv_0670	aromatic-ring-hydroxylating dioxygenase, beta subunit	46.1264	523.166	11.34
Mflv_0671	conserved hypothetical protein	0	0	-
Mflv_0672	Pseudogene	67.0383	52.777	0.79
Mflv_0673	dihydrodipicolinate synthetase	26.1419	23.3936	0.89
Mflv_0674	conserved hypothetical protein	0	0	-
Mflv_0675	Glyoxalase/bleomycin resistance protein/dioxygenase	0	0.191321	Pyrene
Mflv_0676	dihydrodipicolinate synthetase	0	0	-
Mflv_0677	gentisate 1,2-dioxygenase	0	0	-
Mflv_0678	transposase, mutator type	0	0	-
Mflv_0679	cupin 2, conserved barrel domain protein	929.037	245.931	0.26
Mflv_0680	phthalate 3,4-dioxygenase, ferredoxin reductase subunit	0	0	-
Mflv_0681	conserved hypothetical protein	0	0	-
Mflv_0682	phthalate 3,4-dihydrodiol dehydrogenase	0	0	-
Mflv_0683	conserved hypothetical protein	286.849	178.722	0.62
Mflv_0684	phthalate 3,4-dioxygenase, beta subunit	8.44289	439.563	52.06
Mflv_0685	phthalate 3,4-dioxygenase, alpha subunit	35.0862	443.293	12.63
Mflv_0686	Transcriptional regulator PhtR	96.7339	55.8267	0.58
Mflv_0687	conserved hypothetical protein	70.681	147.026	2.08
Mflv_0688	transposase, mutator type	8.59365	41.2799	4.80
Mflv_0689	transposase IS116/IS110/IS902 family protein	43.8964	67.2918	1.53
Mflv_0690	transposase IstA protein, putative	13.9203	29.2264	2.10
Mflv_0691	Pseudogene	5.46341	19.7564	3.62

Mflv_0692	transposase IstA protein, putative	0	52.6487	Pyrene
Mflv_0693	putative transposition helper protein	11.0717	54.0262	4.88
Mflv_0694	Tn554-related, transposase C	16.991	37.6411	2.22
Mflv_0695	Pseudogene	27.2332	81.6308	3.00
Mflv_0696	Pirin domain protein	20.0357	36.7829	1.84
Mflv_0697	SMP-30/gluconolactonase/LRE-like region	12.508	22.9009	1.83
Mflv_0698	conserved hypothetical protein	41.2975	36.2711	0.88
Mflv_0699	conserved hypothetical protein	13.362	46.4327	3.47
Mflv_0700	transposase, mutator type	0	0	-
Mflv_0701	hypothetical protein	20.0537	75.1995	3.75
Mflv_0702	conserved hypothetical protein	33.0664	49.5903	1.50
Mflv_0703	conserved hypothetical protein	38.6139	47.7092	1.24
Mflv_0704	RDD domain containing protein	51.1489	66.509	1.30
Mflv_0705	putative conserved MCE associated membrane protein	15.2278	40.6715	2.67
Mflv_0706	virulence factor Mce family protein	84.9626	86.0696	1.01
Mflv_0707	virulence factor Mce family protein	101.312	77.0908	0.76
Mflv_0708	virulence factor Mce family protein	83.5324	99.2338	1.19
Mflv_0709	virulence factor Mce family protein	51.6938	80.452	1.56
Mflv_0710	virulence factor Mce family protein	68.5462	92.0523	1.34
Mflv_0711	virulence factor Mce family protein	65.8804	66.5534	1.01
Mflv_0712	protein of unknown function DUF140	20.5469	73.011	3.55
Mflv_0713	protein of unknown function DUF140	59.7287	71.5811	1.20
Mflv_0714	AMP-dependent synthetase and ligase	39.4689	47.4424	1.20
Mflv_0715	transcriptional regulator, GntR family	18.877	32.1213	1.70
Mflv_0716	cyclase/dehydrase	64.4003	35.3212	0.55
Mflv_0717	protein of unknown function DUF72	74.0745	16.5477	0.22
Mflv_0718	peptidase M42 family protein	73.1521	44.9878	0.61
Mflv_0719	transcriptional regulator, TetR family	79.8169	47.0985	0.59
Mflv_0720	conserved hypothetical protein	0	0	-
Mflv_0721	conserved hypothetical protein	2294.95	176.642	0.08
Mflv_0722	ABC transporter related protein	14.4242	23.7163	1.64
Mflv_0723	Substrate-binding region of ABC-type glycine betaine transport system	10.0392	35.2256	3.51
Mflv_0724	binding-protein-dependent transport systems inner membrane component	4.90222	28.4746	5.81
Mflv_0725	Alcohol dehydrogenase, zinc-binding domain protein	10.2522	49.0663	4.79
Mflv_0726	NAD(P) transhydrogenase, alpha subunit	39.5619	39.4756	1.00
Mflv_0727	NAD(P) transhydrogenase, beta subunit	42.6524	54.8532	1.29
Mflv_0728	transposase, IS4 family	34.0732	40.8304	1.20

Mflv_0729	integral membrane sensor signal transduction histidine kinase	13.782	41.6959	3.03
Mflv_0730	two component transcriptional regulator, LuxR family	1.17682	22.6945	19.28
Mflv_0731	transcriptional regulator, AraC family	46.3441	22.4485	0.48
Mflv_0732	FAD dependent oxidoreductase	84.2	39.4657	0.47
Mflv_0733	conserved hypothetical protein	300.541	46.7941	0.16
Mflv_0734	acyl-CoA dehydrogenase domain protein	231.655	41.6782	0.18
Mflv_0735	protein tyrosine/serine phosphatase	59.5108	42.7065	0.72
Mflv_0736	alpha/beta hydrolase fold protein	21.2014	36.561	1.72
Mflv_0737	conserved hypothetical protein	86.6354	24.3909	0.28
Mflv_0738	Methyltransferase type 11	37.3922	67.8465	1.81
Mflv_0739	haloacid dehalogenase, type II	12.7617	38.7306	3.03
Mflv_0740	Alcohol dehydrogenase, zinc-binding domain protein	64.6523	42.0464	0.65
Mflv_0741	short-chain dehydrogenase/reductase SDR	175.609	63.502	0.36
Mflv_0742	aldehyde dehydrogenase	131.51	61.7056	0.47
Mflv_0743	putative methyltransferase	55.9817	81.5996	1.46
Mflv_0744	transcriptional regulator, TetR family	599.025	213.984	0.36
Mflv_0745	transcriptional regulator, TetR family	20.3736	62.6169	3.07
Mflv_0746	membrane protein-like protein	18.8468	50.5611	2.68
Mflv_0747	Pirin domain protein	38.7651	83.1707	2.15
Mflv_0748	conserved hypothetical protein	1095.88	51.0878	0.05
Mflv_0749	phosphoenolpyruvate--protein phosphotransferase	77.6524	30.5985	0.39
Mflv_0750	transcriptional regulator, DeoR family	226.989	41.8674	0.18
Mflv_0751	PfkB domain protein	60.8441	31.7739	0.52
Mflv_0752	PTS system D-fructose-specific IIA component (F1P-forming), Frc family / PTS system D-fructose-specific IIB component (F1P-forming), Frc family / PTS system D-fructose-specific IIC component (F1P-forming), Frc family	19.4968	37.6941	1.93
Mflv_0753	Phosphotransferase system, phosphocarrier protein HPr	75.8779	49.376	0.65
Mflv_0754	hydroxymethylpyrimidine synthase	75.6498	37.3448	0.49
Mflv_0755	peptidase S8 and S53, subtilisin, kexin, sedolisin	17.1473	32.4095	1.89
Mflv_0756	putative conserved membrane protein	14.1783	28.9712	2.04
Mflv_0757	conserved hypothetical protein	16.3395	40.4436	2.48
Mflv_0758	conserved hypothetical protein	105.615	65.4142	0.62
Mflv_0759	conserved hypothetical protein	108.739	57.1847	0.53
Mflv_0760	conserved hypothetical alanine and proline rich protein	17.451	48.3043	2.77

Mflv_0761	conserved hypothetical protein	28.3292	30.4334	1.07
Mflv_0762	conserved hypothetical protein	38.6672	28.5685	0.74
Mflv_0763	conserved hypothetical protein	127.96	39.6876	0.31
Mflv_0764	protein of unknown function DUF571	10.1679	41.5812	4.09
Mflv_0765	conserved hypothetical alanine and proline rich protein	8.9544	26.562	2.97
Mflv_0766	early secretory antigenic target, 6 kDa	56.7417	32.5858	0.57
Mflv_0767	conserved hypothetical protein	58.1507	86.5082	1.49
Mflv_0768	PPE protein	7.61579	27.5295	3.61
Mflv_0769	PE-like protein	0	23.2603	Pyrene
Mflv_0770	cell division protein FtsK/SpoIIIE	14.1686	30.7294	2.17
Mflv_0771	cell division protein FtsK/SpoIIIE	13.9823	31.8512	2.28
Mflv_0772	protein of unknown function DUF690	11.3194	38.8917	3.44
Mflv_0773	AAA ATPase, central domain protein	16.2074	41.3797	2.55
Mflv_0774	conserved hypothetical protein	75.5328	42.6669	0.56
Mflv_0775	conserved hypothetical protein	21.2983	35.3789	1.66
Mflv_0776	conserved hypothetical protein	15.9213	26.849	1.69
Mflv_0777	conserved hypothetical alanine rich protein	28.4811	15.1024	0.53
Mflv_0778	transcription factor WhiB	0	43.6911	Pyrene
Mflv_0779	hypothetical protein	278.201	73.2305	0.26
Mflv_0780	conserved hypothetical protein	37.8561	49.7813	1.32
Mflv_0781	Propionyl-CoA carboxylase	14.6689	36.5995	2.50
Mflv_0782	conserved hypothetical protein	0	39.1481	Pyrene
Mflv_0783	helix-turn-helix domain protein	140.805	25.1349	0.18
Mflv_0784	methionine aminopeptidase, type I	7.03856	22.8686	3.25
Mflv_0785	protein of unknown function DUF55	18.2409	17.1703	0.94
Mflv_0786	conserved hypothetical protein	47.9889	23.8418	0.50
Mflv_0787	GCN5-related N-acetyltransferase	25.4606	71.3722	2.80
Mflv_0788	Pirin domain protein	63.2518	42.1834	0.67
Mflv_0789	conserved hypothetical protein	1602.49	51.5244	0.03
Mflv_0790	conserved hypothetical protein	41.0939	31.227	0.76
Mflv_0791	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	308.748	54.0607	0.18
Mflv_0792	conserved hypothetical protein	5636.72	140.396	0.02
Mflv_0793	ChaB family protein	987.208	72.3288	0.07
Mflv_0794	conserved hypothetical protein	118.178	87.0363	0.74
Mflv_0795	Pseudogene	78.1452	34.2018	0.44
Mflv_0796	polysaccharide deacetylase	98.4387	44.3454	0.45
Mflv_0797	agmatinase	16.7997	30.4272	1.81
Mflv_0798	short-chain dehydrogenase/reductase SDR	8.72822	18.0217	2.06
Mflv_0799	short-chain dehydrogenase/reductase SDR	8.76284	15.3625	1.75

Mflv_0800	amino acid/polyamine/organocation transporter, APC superfamily	9.60303	30.9524	3.22
Mflv_0801	transcriptional regulator, CdaR family	27.9642	61.1559	2.19
Mflv_0802	conserved hypothetical protein	65.6632	76.7758	1.17
Mflv_0803	type III restriction enzyme, res subunit	34.7092	63.4108	1.83
Mflv_0804	restriction modification system DNA specificity domain	106.81	166.549	1.56
Mflv_0805	N-6 DNA methylase	98.5024	58.3363	0.59
Mflv_0806	FHA domain containing protein	113.235	75.6136	0.67
Mflv_0807	FHA domain containing protein	144.929	84.9006	0.59
Mflv_0808	protein phosphatase 2C domain protein	54.5577	57.8436	1.06
Mflv_0809	cell elongation-specific peptidoglycan biosynthesis regulator RodA	40.6454	76.6253	1.89
Mflv_0810	cell elongation-specific peptidoglycan D,D-transpeptidase	27.0868	48.7015	1.80
Mflv_0811	serine/threonine protein kinase	34.3123	39.3813	1.15
Mflv_0812	serine/threonine protein kinase	62.8103	62.5424	1.00
Mflv_0813	anthranilate synthase, component II	169.937	55.5071	0.33
Mflv_0814	protein of unknown function DUF881	83.7183	47.9485	0.57
Mflv_0815	protein of unknown function UPF0233	754.106	116.131	0.15
Mflv_0816	conserved hypothetical protein	165.802	70.8535	0.43
Mflv_0817	Peptidylprolyl isomerase	621.424	157.043	0.25
Mflv_0818	putative membrane protein	29.8341	53.0643	1.78
Mflv_0819	L-serine ammonia-lyase	51.7974	39.0045	0.75
Mflv_0820	conserved hypothetical protein	9.76802	68.4438	7.01
Mflv_0821	DNA gyrase subunit A	91.8082	123.316	1.34
Mflv_0822	DNA gyrase subunit B	238.653	107.189	0.45
Mflv_0823	protein of unknown function DUF721	49.1618	60.0037	1.22
Mflv_0824	DNA replication and repair protein RecF	50.1668	68.7812	1.37
Mflv_0825	6-phosphogluconate dehydrogenase (decarboxylating)	60.0412	55.3246	0.92
Mflv_0826	DNA polymerase III, beta subunit	84.3046	53.1248	0.63
Mflv_0827	chromosomal replication initiator protein DnaA	67.5924	59.1617	0.88
Mflv_0828	LSU ribosomal protein L34P	0	251.374	Pyrene
Mflv_0829	ribonuclease P protein component	187.505	153.899	0.82
Mflv_0830	protein of unknown function DUF37	115.266	87.4116	0.76
Mflv_0831	60 kDa inner membrane insertion protein	117.278	71.6184	0.61
Mflv_0832	single-stranded nucleic acid binding R3H domain protein	40.7418	82.4367	2.02
Mflv_0833	16S rRNA m(7)G-527 methyltransferase	49.4824	66.4236	1.34
Mflv_0834	chromosome segregation ATPase	50.5134	81.5109	1.61

Mflv_0835	chromosome segregation DNA-binding protein	18.6883	45.704	2.45
Mflv_0836	conserved hypothetical protein	43.3398	124.121	2.86
Mflv_0837	Peptidoglycan-binding domain 1 protein	187.049	143.49	0.77
Mflv_0838	thioredoxin	646.009	499.62	0.77
Mflv_0839	thioredoxin reductase	405.138	1307.71	3.23
Mflv_0840	conserved hypothetical protein	1.30266	28.8252	22.13
Mflv_0841	transcriptional regulator, Fis family	67.4574	38.5407	0.57
Mflv_0842	integral membrane protein MviN	27.1127	37.83	1.40
Mflv_0843	conserved hypothetical protein	30.2066	31.1402	1.03
Mflv_0844	NUDIX hydrolase	49.5525	38.9113	0.79
Mflv_0845	metal dependent phosphohydrolase	37.6934	36.0344	0.96
Mflv_0846	conserved hypothetical protein	16.0861	25.058	1.56
Mflv_0847	protein	19.8757	31.0892	1.56
Mflv_0848	Wyosine base formation	21.6523	43.7946	2.02
Mflv_0849	major facilitator superfamily MFS_1	16.7199	31.3115	1.87
Mflv_0850	protein of unknown function DUF179	159.368	57.1073	0.36
Mflv_0851	conserved hypothetical protein	265.394	27.4082	0.10
Mflv_0852	conserved hypothetical protein	244.548	65.3487	0.27
Mflv_0853	leucyl-tRNA synthetase	53.3421	57.2861	1.07
Mflv_0854	short-chain dehydrogenase/reductase SDR	51.4567	26.8365	0.52
Mflv_0855	conserved hypothetical protein	48.5738	30.8808	0.64
Mflv_0856	transcriptional regulator, MarR family	1089.4	59.599	0.05
Mflv_0857	amino acid ABC transporter ATP-binding protein, PAAT family	14.1077	31.2168	2.21
Mflv_0858	amino acid ABC transporter membrane protein, PAAT family / amino acid ABC transporter substrate-binding protein, PAAT family	12.4545	29.2698	2.35
Mflv_0859	transcriptional regulator, GntR family	35.4065	46.896	1.32
Mflv_0860	conserved hypothetical protein	27.8586	36.7161	1.32
Mflv_0861	protein of unknown function DUF839	10.092	28.6637	2.84
Mflv_0862	conserved hypothetical protein	12.3588	29.6282	2.40
Mflv_0863	hypothetical protein	14.1473	43.8047	3.10
Mflv_0864	conserved hypothetical protein	13.7155	57.1452	4.17
Mflv_0865	alpha/beta hydrolase fold protein	51.3737	48.7976	0.95
Mflv_0866	conserved hypothetical protein	50.794	44.2439	0.87
Mflv_0867	Myo-inositol-1-phosphate synthase	139.738	315.543	2.26
Mflv_0868	transcriptional regulator, PadR family	97.4976	205.344	2.11
Mflv_0869	protein of unknown function DUF1707	25.597	30.0121	1.17
Mflv_0870	conserved hypothetical protein	830.151	150.077	0.18
Mflv_0871	glycosyl transferase, family 51	65.5234	56.3534	0.86



Mflv_0872	conserved hypothetical protein	35.4109	41.873	1.18
Mflv_0873	hypothetical protein	164.369	130.868	0.80
Mflv_0874	SSU ribosomal protein S6P	719.829	502.322	0.70
Mflv_0875	single-strand binding protein	392.455	230.794	0.59
Mflv_0876	SSU ribosomal protein S18P	688.378	320.142	0.47
Mflv_0877	LSU ribosomal protein L9P	382.894	333.624	0.87
Mflv_0878	primary replicative DNA helicase	32.2802	55.6201	1.72
Mflv_0879	protein	20.6384	66.9063	3.24
Mflv_0880	conserved hypothetical protein	16.9259	56.8385	3.36
Mflv_0881	hypothetical protein	15.4019	46.2003	3.00
Mflv_0882	hypothetical protein	32.6025	94.1279	2.89
Mflv_0883	hypothetical protein	18.7577	50.2288	2.68
Mflv_0884	hypothetical protein	37.6875	80.9632	2.15
Mflv_0885	transcriptional regulator, XRE family	0	52.8319	Pyrene
Mflv_0886	hypothetical protein	55.9236	106.405	1.90
Mflv_0887	hypothetical protein	32.4129	77.1227	2.38
Mflv_0888	NLP/P60 protein	19.0773	55.71	2.92
Mflv_0889	transposase, mutator type	0	0	-
Mflv_0890	conserved hypothetical protein	126.628	82.7837	0.65
Mflv_0891	protein of unknown function DUF305	37.1593	62.4603	1.68
Mflv_0892	integral membrane sensor signal transduction histidine kinase	34.9277	58.7263	1.68
Mflv_0893	two component transcriptional regulator, winged helix family	36.9976	63.2513	1.71
Mflv_0894	hypothetical protein	21.7688	30.0497	1.38
Mflv_0895	NLP/P60 protein	32.2926	55.0148	1.70
Mflv_0896	transcriptional repressor, CopY family	155.122	69.8003	0.45
Mflv_0897	conserved hypothetical protein	33.8572	74.3603	2.20
Mflv_0898	conserved hypothetical protein	75.7478	65.3901	0.86
Mflv_0899	Pyridoxal-5'-phosphate-dependent enzyme, beta subunit	36.5073	58.2949	1.60
Mflv_0900	major facilitator superfamily MFS_1	62.2962	72.5383	1.16
Mflv_0901	response regulator receiver protein	20.3574	59.3484	2.92
Mflv_0902	NLP/P60 protein	29.4048	81.5807	2.77
Mflv_0903	hypothetical protein	23.5823	51.0381	2.16
Mflv_0904	ErfK/YbiS/YcfS/YnhG family protein	15.7495	43.4278	2.76
Mflv_0905	conserved hypothetical protein	52.1056	52.0819	1.00
Mflv_0906	heavy metal translocating P-type ATPase	26.3699	30.0025	1.14
Mflv_0907	transcriptional regulator, ArsR family	237.391	46.6488	0.20
Mflv_0908	DSBA oxidoreductase	39.4698	84.2952	2.14
Mflv_0909	alpha/beta hydrolase fold protein	33.2211	63.5026	1.91
Mflv_0910	Heavy metal transport/detoxification protein	717.022	467.082	0.65

Mflv_0911	conserved hypothetical protein	60.0861	279.578	4.65
Mflv_0912	heavy metal translocating P-type ATPase	24.7744	148.019	5.97
Mflv_0913	YHS domain protein	0	117.742	Pyrene
Mflv_0914	protein of unknown function DUF156	12.544	187.876	14.98
Mflv_0915	copper-translocating P-type ATPase	22.7513	104.257	4.58
Mflv_0916	conserved hypothetical protein	74.2464	86.0102	1.16
Mflv_0917	hypothetical protein	0	25.4159	Pyrene
Mflv_0918	conserved hypothetical protein	0	42.7484	Pyrene
Mflv_0919	hypothetical protein	47.3288	123.005	2.60
Mflv_0920	hypothetical protein	66.7485	60.8685	0.91
Mflv_0921	conserved hypothetical protein	32.3308	45.1892	1.40
Mflv_0922	protein of unknown function DUF1130	60.9532	58.0688	0.95
Mflv_0923	hypothetical protein	23.5692	45.2728	1.92
Mflv_0924	hypothetical protein	15.605	43.8965	2.81
Mflv_0925	transcriptional regulator, TetR family	21.8873	43.2656	1.98
Mflv_0926	conserved hypothetical protein	11.6661	25.3227	2.17
Mflv_0927	short-chain dehydrogenase/reductase SDR	28.0036	78.5035	2.80
Mflv_0928	PIN domain family protein	82.9923	72.8815	0.88
Mflv_0929	CopG domain protein DNA-binding domain protein	595.837	100.94	0.17
Mflv_0930	short-chain dehydrogenase/reductase SDR	20.2766	34.6435	1.71
Mflv_0931	conserved hypothetical protein	29.4244	28.1317	0.96
Mflv_0932	family	14.3153	51.5568	3.60
Mflv_0933	NADH:ubiquinone oxidoreductase complex I intermediate-associated protein 30	16.0111	53.5039	3.34
Mflv_0934	conserved hypothetical protein	70.4437	54.5534	0.77
Mflv_0935	anion transporter	67.7505	36.8497	0.54
Mflv_0936	conserved hypothetical protein	264.411	29.1545	0.11
Mflv_0937	conserved hypothetical protein	14.7828	18.4111	1.25
Mflv_0938	conserved hypothetical protein	15.1962	13.1872	0.87
Mflv_0939	conserved hypothetical protein	0	20.8758	Pyrene
Mflv_0940	hypothetical protein	19.0568	36.8092	1.93
Mflv_0941	transcriptional regulator, TetR family	18.0896	55.0433	3.04
Mflv_0942	aldo/keto reductase	16.6303	46.6862	2.81
Mflv_0943	short-chain dehydrogenase/reductase SDR	10.1676	49.0079	4.82
Mflv_0944	transcriptional regulator, TetR family	20.0584	20.1404	1.00
Mflv_0945	protein of unknown function UPF0089	0	0	-
Mflv_0946	protein of unknown function DUF222	12.9048	43.4518	3.37
Mflv_0947	conserved hypothetical protein	14.6266	21.7863	1.49
Mflv_0948	5'-nucleotidase / 3'-nucleotidase	34.3623	19.2679	0.56
Mflv_0949	PfkB domain protein	306.295	28.9545	0.09

Mflv_0950	lycopene cyclase (CrTL-type)	8.01835	24.7973	3.09
Mflv_0951	ABC transporter related protein	74.0775	34.805	0.47
Mflv_0952	beta-lactamase	1830.02	100.063	0.05
Mflv_0953	General substrate transporter	402.205	53.3159	0.13
Mflv_0954	protein of unknown function DUF1212	26.6137	30.5226	1.15
Mflv_0955	D-amino-acid dehydrogenase	213.387	220.38	1.03
Mflv_0956	ATPase, P-type (transporting), HAD superfamily, subfamily IC	13.8692	40.5784	2.93
Mflv_0957	FAD linked oxidase domain protein	18.2443	36.2623	1.99
Mflv_0958	transcriptional regulator, GntR family	18.0972	20.2044	1.12
Mflv_0959	hypothetical protein	173.21	445.964	2.57
Mflv_0960	transcriptional regulator, MarR family	103.548	216.71	2.09
Mflv_0961	conserved hypothetical protein	97.165	122.487	1.26
Mflv_0962	monooxygenase, flavin-binding family protein	57.5401	40.0024	0.70
Mflv_0963	transcriptional regulator, TetR family	38.0712	33.7969	0.89
Mflv_0964	protein of unknown function DUF309	51.8705	25.2493	0.49
Mflv_0965	Abortive infection protein	8.49136	38.8917	4.58
Mflv_0966	transposase, IS4 family	0	0	-
Mflv_0967	integral membrane sensor signal transduction histidine kinase	130.444	58.9609	0.45
Mflv_0968	two component transcriptional regulator, LuxR family	46.4674	48.127	1.04
Mflv_0969	conserved hypothetical protein	40.4692	53.9653	1.33
Mflv_0970	ABC transporter, permease protein	58.6434	63.388	1.08
Mflv_0971	ABC transporter related protein	35.4513	46.8057	1.32
Mflv_0972	cobalt transport protein	24.3162	66.2711	2.73
Mflv_0973	transcriptional regulator, TetR family	21.8694	73.0329	3.34
Mflv_0974	Pseudogene	17.8553	54.9611	3.08
Mflv_0975	short-chain dehydrogenase/reductase SDR	347.501	124.469	0.36
Mflv_0976	hypothetical protein	2173.61	321.973	0.15
Mflv_0977	conserved hypothetical protein	130.002	56.1783	0.43
Mflv_0978	protein of unknown function DUF202	161.209	33.2482	0.21
Mflv_0979	protein of unknown function DUF202	150.868	32.2467	0.21
Mflv_0980	beta-lactamase domain protein	814.36	93.1713	0.11
Mflv_0981	protein of unknown function DUF302	1855.73	231.881	0.12
Mflv_0982	protein of unknown function DUF156	4886.64	296.247	0.06
Mflv_0983	protein of unknown function DUF81	6.86247	23.3395	3.40
Mflv_0984	Rhodanese domain protein	9.23617	23.8677	2.58
Mflv_0985	beta-lactamase domain protein	11.4369	49.7318	4.35
Mflv_0986	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	11.5176	37.8255	3.28

Mflv_0987	thioredoxin	40.1471	32.9719	0.82
Mflv_0988	ferredoxin-dependent glutamate synthase	31.9338	42.9714	1.35
Mflv_0989	conserved hypothetical protein	0	11.6776	Pyrene
Mflv_0990	Heme oxygenase	16.6444	48.4447	2.91
Mflv_0991	protein of unknown function UPF0126	18.382	39.0501	2.12
Mflv_0992	conserved hypothetical protein	72.8714	48.1953	0.66
Mflv_0993	conserved hypothetical protein	17.5137	63.5026	3.63
Mflv_0994	MaoC domain protein dehydratase	60.8045	57.1976	0.94
Mflv_0995	ABC transporter related protein	55.7676	33.93	0.61
Mflv_0996	4-alpha-glucanotransferase	84.9511	34.3867	0.40
Mflv_0997	conserved hypothetical protein	2629.69	146.813	0.06
Mflv_0998	conserved hypothetical protein	1012.7	41.5787	0.04
Mflv_0999	response regulator receiver modulated diguanylate cyclase/phosphodiesterase with PAS/PAC sensor(s)	24.2145	38.6103	1.59
Mflv_1000	multi-sensor hybrid histidine kinase	21.3812	35.6198	1.67
Mflv_1001	MCP methyltransferase, CheR-type	13.2262	25.1036	1.90
Mflv_1002	CheB methylesterase	11.0986	34.2352	3.08
Mflv_1003	Cellulase	31.0085	28.313	0.91
Mflv_1004	phospholipase D/Transphosphatidylase	45.598	40.6684	0.89
Mflv_1005	cyclase family protein	57.0237	73.5763	1.29
Mflv_1006	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	213.501	108.15	0.51
Mflv_1007	amidohydrolase 2	52.665	55.7708	1.06
Mflv_1008	transcriptional regulator, AraC family with amidase-like domain	8.33474	19.6201	2.35
Mflv_1009	transcriptional regulator, AraC family with amidase-like domain	10.8851	40.9847	3.77
Mflv_1010	nitrile hydratase	13.8826	27.3389	1.97
Mflv_1011	nitrile hydratase, alpha subunit	26.112	29.8001	1.14
Mflv_1012	conserved hypothetical protein	0	18.7507	Pyrene
Mflv_1013	conserved hypothetical protein	617.408	194.24	0.31
Mflv_1014	conserved hypothetical protein	824.284	213.363	0.26
Mflv_1015	formate/nitrite family of transporters-like protein	54.4972	34.4924	0.63
Mflv_1016	Amidase	21.6547	27.0278	1.25
Mflv_1017	luciferase family protein	36.0912	42.2699	1.17
Mflv_1018	conserved hypothetical protein	910.618	51.2643	0.06
Mflv_1019	DEAD/DEAH box helicase domain protein	14.6017	24.1409	1.65
Mflv_1020	phospholipid/glycerol acyltransferase	612.276	53.9646	0.09
Mflv_1021	cyclase/dehydrase	370.418	57.9363	0.16
Mflv_1022	acyl-CoA thioesterase	33.8587	32.1712	0.95
Mflv_1023	metallophosphoesterase	37.7995	19.0946	0.51

Mflv_1024	short-chain dehydrogenase/reductase SDR	61.2992	35.3706	0.58
Mflv_1025	iron-containing alcohol dehydrogenase	68.8484	39.9888	0.58
Mflv_1026	thioesterase superfamily protein	72.7053	38.728	0.53
Mflv_1027	conserved hypothetical protein	20.2911	23.4336	1.15
Mflv_1028	NAD-dependent epimerase/dehydratase	33.9688	19.3199	0.57
Mflv_1029	anti-sigma-factor antagonist	51.9909	51.152	0.98
Mflv_1030	cobalamin B12-binding domain protein	85.781	39.5669	0.46
Mflv_1031	putative GAF sensor protein	141.703	60.5665	0.43
Mflv_1032	conserved hypothetical protein	64.9757	33.5007	0.52
Mflv_1033	major facilitator superfamily MFS_1	39.1177	116.071	2.97
Mflv_1034	transcriptional regulator, MarR family	225.524	138.768	0.62
Mflv_1035	intracellular protease, Pfpl family	238.637	25.5225	0.11
Mflv_1036	conserved hypothetical protein	137.769	69.2926	0.50
Mflv_1037	cutinase	489.719	102.342	0.21
Mflv_1038	conserved hypothetical protein	1454.44	83.058	0.06
Mflv_1039	putative methylase	1226.64	37.561	0.03
Mflv_1040	zinc finger, CDGSH-type domain protein	0	29.5137	Pyrene
Mflv_1041	conserved hypothetical protein	1212.56	86.5056	0.07
Mflv_1042	conserved hypothetical protein	668.935	39.851	0.06
Mflv_1043	NUDIX hydrolase	134.435	72.0666	0.54
Mflv_1044	conserved hypothetical protein	1193.53	39.4036	0.03
Mflv_1045	conserved hypothetical protein	40.3218	35.5719	0.88
Mflv_1046	MscS Mechanosensitive ion channel	98.2036	33.2566	0.34
Mflv_1047	MOSC domain containing protein	50.9781	50.8251	1.00
Mflv_1048	conserved hypothetical protein	838.409	81.0552	0.10
Mflv_1049	conserved hypothetical protein	211.571	31.6354	0.15
Mflv_1050	protein of unknown function DUF1697	32.2341	38.1301	1.18
Mflv_1051	cobalamin synthesis CobW domain protein	14.0166	19.4568	1.39
Mflv_1052	cobalamin synthesis protein, P47K	12.4333	22.2401	1.79
Mflv_1053	diguanylate cyclase with GAF sensor	76.0148	39.6921	0.52
Mflv_1054	hypothetical protein	36.5277	254.81	6.98
Mflv_1055	aminotransferase	103.104	47.2967	0.46
Mflv_1056	transposase, IS204/IS1001/IS1096/IS1165 family protein	0	0	-
Mflv_1057	protein of unknown function DUF222	20.805	43.4432	2.09
Mflv_1058	Diacylglycerol O-acyltransferase	28.3274	46.6765	1.65
Mflv_1059	protein of unknown function UPF0061	296.178	69.6534	0.24
Mflv_1060	conserved hypothetical protein	30.3535	24.7138	0.81
Mflv_1061	conserved hypothetical protein	64.5573	45.0792	0.70
Mflv_1062	conserved hypothetical protein	145.304	21.1044	0.15
Mflv_1063	ATP-dependent helicase HrpA	12.3107	23.935	1.94

Mflv_1064	Pseudogene	20.869	39.7637	1.91
Mflv_1065	glutamine cyclotransferase	84.5489	40.5692	0.48
Mflv_1066	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	19.7335	39.1003	1.98
Mflv_1067	beta-lactamase	42.345	71.8682	1.70
Mflv_1068	conserved hypothetical protein	1128.33	135.926	0.12
Mflv_1069	conserved hypothetical protein	3440.33	67.4773	0.02
Mflv_1070	Glyoxalase/bleomycin resistance protein/dioxygenase	35.431	25.7537	0.73
Mflv_1071	Rhomboid family protein	35.7632	61.3673	1.72
Mflv_1072	beta-phosphoglucomutase family hydrolase	293.55	25.6866	0.09
Mflv_1073	Kojibiose phosphorylase	50.4415	33.2153	0.66
Mflv_1074	hypothetical protein	20.4229	30.006	1.47
Mflv_1075	General substrate transporter	22.4678	47.932	2.13
Mflv_1076	conserved hypothetical protein	74.9824	12.3695	0.16
Mflv_1077	conserved hypothetical protein	47.4844	59.5563	1.25
Mflv_1078	RNA polymerase, sigma-24 subunit, ECF subfamily	15.7204	46.3612	2.95
Mflv_1079	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	108.792	28.7229	0.26
Mflv_1080	extracellular solute-binding protein, family 1	42.6117	27.9568	0.66
Mflv_1081	binding-protein-dependent transport systems inner membrane component	24.3269	31.6969	1.30
Mflv_1082	binding-protein-dependent transport systems inner membrane component	26.4556	65.2725	2.47
Mflv_1083	ABC transporter related protein	22.9061	31.6315	1.38
Mflv_1084	orotate phosphoribosyltransferase	51.3027	31.2473	0.61
Mflv_1085	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	13.3272	29.5559	2.22
Mflv_1086	conserved hypothetical protein	154.056	48.7272	0.32
Mflv_1087	conserved hypothetical protein	188.036	35.8647	0.19
Mflv_1088	isoamylase	96.3628	52.1688	0.54
Mflv_1089	isochorismatase hydrolase	109.162	40.4991	0.37
Mflv_1090	putative PAS/PAC sensor protein	247.549	54.0465	0.22
Mflv_1091	conserved hypothetical protein	60.4252	55.501	0.92
Mflv_1092	conserved hypothetical protein	273.48	92.6063	0.34
Mflv_1093	conserved hypothetical protein	0	99.5854	Pyrene
Mflv_1094	conserved hypothetical protein	793.192	158.032	0.20
Mflv_1095	acyl-CoA dehydrogenase domain protein	504.617	46.0923	0.09
Mflv_1096	major facilitator superfamily MFS_1	20.4553	34.2679	1.68
Mflv_1097	conserved hypothetical protein	3.27601	12.9956	3.97
Mflv_1098	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	183.808	60.5941	0.33

Mflv_1099	glycosyl transferase, group 1	94.1192	45.3881	0.48
Mflv_1100	Methyltransferase type 11	56.8659	68.2977	1.20
Mflv_1101	conserved hypothetical protein	59.8939	58.2793	0.97
Mflv_1102	conserved hypothetical protein	205.686	121.406	0.59
Mflv_1103	transcriptional regulator, TetR family	27.0548	27.559	1.02
Mflv_1104	cytochrome P450	60.5918	67.121	1.11
Mflv_1105	peptide methionine sulfoxide reductase	548.114	368.51	0.67
Mflv_1106	methionine-R-sulfoxide reductase	1445.86	485.154	0.34
Mflv_1107	conserved hypothetical protein	84.0805	47.2597	0.56
Mflv_1108	NAD-dependent epimerase/dehydratase	20.8804	26.5045	1.27
Mflv_1109	FAD dependent oxidoreductase	26.0285	38.898	1.49
Mflv_1110	protein of unknown function DUF427	138.7	76.0196	0.55
Mflv_1111	conserved hypothetical protein	41.5107	26.403	0.64
Mflv_1112	Ferritin, Dps family protein	12842.1	434.454	0.03
Mflv_1113	thioesterase superfamily protein	217.965	49.5759	0.23
Mflv_1114	glutamate synthase (NADH) large subunit	57.5871	67.85	1.18
Mflv_1115	glutamate synthase (NADH) small subunit	48.5396	68.6251	1.41
Mflv_1116	conserved hypothetical protein	0	70.3425	Pyrene
Mflv_1117	luciferase family protein	77.9256	34.7658	0.45
Mflv_1118	conserved hypothetical protein	29.8491	22.885	0.77
Mflv_1119	sulphate transporter	25.4747	63.0514	2.48
Mflv_1120	transcriptional regulator, ArsR family	65.0781	97.5442	1.50
Mflv_1121	PHP C-terminal domain protein	417.295	58.2223	0.14
Mflv_1122	DNA-directed DNA polymerase	51.1731	49.9679	0.98
Mflv_1123	FAD dependent oxidoreductase	31.3819	32.7786	1.04
Mflv_1124	regulator of ribonuclease activity A	165.43	56.3677	0.34
Mflv_1125	conserved hypothetical protein	36.9511	30.281	0.82
Mflv_1126	copper resistance D domain protein	1.91889	28.7473	14.98
Mflv_1127	copper resistance protein CopC	41.5545	19.847	0.48
Mflv_1128	conserved hypothetical protein	0	25.6789	Pyrene
Mflv_1129	conserved hypothetical protein	195.029	52.5059	0.27
Mflv_1130	conserved hypothetical protein	20.0746	16.0382	0.80
Mflv_1131	conserved hypothetical protein	164.595	33.848	0.21
Mflv_1132	conserved hypothetical protein	42.3916	26.7735	0.63
Mflv_1133	conserved hypothetical protein	493.299	118.78	0.24
Mflv_1134	conserved hypothetical protein	70.7909	62.8604	0.89
Mflv_1135	superoxide dismutase	2664.12	298.661	0.11
Mflv_1136	putative phage repressor	80.1804	63.5737	0.79
Mflv_1137	hypothetical protein	932.742	94.525	0.10
Mflv_1138	Rhodanese domain protein	606.058	28.5108	0.05

Mflv_1139	conserved hypothetical protein	55.4041	33.4672	0.60
Mflv_1140	Glycerophosphodiester phosphodiesterase	87.4748	33.3609	0.38
Mflv_1141	Ferritin, Dps family protein	234.283	38.5598	0.16
Mflv_1142	cell envelope-related transcriptional attenuator	19.2645	24.7718	1.29
Mflv_1143	Abortive infection protein	36.4027	45.8546	1.26
Mflv_1144	conserved hypothetical protein	15.0325	43.3464	2.88
Mflv_1145	prephenate dehydratase	43.252	66.1175	1.53
Mflv_1146	Phosphoglycerate mutase	42.6785	41.6667	0.98
Mflv_1147	hypothetical protein	166.937	140.115	0.84
Mflv_1148	protein of unknown function DUF1025	37.1824	59.0788	1.59
Mflv_1149	conserved hypothetical protein	106.497	50.0178	0.47
Mflv_1150	seryl-tRNA synthetase	49.5351	32.1457	0.65
Mflv_1151	conserved hypothetical protein	40.7577	30.5687	0.75
Mflv_1152	Rieske (2Fe-2S) domain protein	67.7127	45.7183	0.68
Mflv_1153	1-acyl-sn-glycerol-3-phosphate acyltransferase	94.9222	46.6176	0.49
Mflv_1154	phospholipid/glycerol acyltransferase	46.8982	39.1907	0.84
Mflv_1155	Cof-like hydrolase	33.5366	36.2263	1.08
Mflv_1156	regulatory protein, LuxR	17.2421	41.1227	2.39
Mflv_1157	LGFP repeat protein	75.9807	47.8454	0.63
Mflv_1158	Repeat of unknown function XGLTT	273.227	96.8958	0.35
Mflv_1159	UDP-galactopyranose mutase	93.5092	50.2788	0.54
Mflv_1160	glycosyltransferases-like protein	35.685	51.7716	1.45
Mflv_1161	phosphoesterase, PA-phosphatase related protein	2.09329	48.3231	23.08
Mflv_1162	UbiA prenyltransferase	42.1927	55.136	1.31
Mflv_1163	conserved hypothetical protein	20.8994	41.6184	1.99
Mflv_1164	putative esterase	471.701	446.375	0.95
Mflv_1165	putative esterase	95.0985	81.7372	0.86
Mflv_1166	conserved hypothetical protein	67.0576	42.8274	0.64
Mflv_1167	cutinase	95.6153	70.2776	0.74
Mflv_1168	AMP-dependent synthetase and ligase	208.519	79.234	0.38
Mflv_1169	mycolic acid condensase	101.301	75.495	0.75
Mflv_1170	carboxyl transferase	138.494	90.1723	0.65
Mflv_1171	conserved hypothetical protein	98.492	61.2532	0.62
Mflv_1172	protein kinase	37.6252	43.6401	1.16
Mflv_1173	cell wall arabinan synthesis protein	40.2463	41.5823	1.03
Mflv_1174	cell wall arabinan synthesis protein	22.2683	32.4164	1.46
Mflv_1175	cell wall arabinan synthesis protein	22.2605	26.8736	1.21
Mflv_1176	putative conserved transmembrane protein	13.7106	39.0717	2.85
Mflv_1177	short-chain dehydrogenase/reductase SDR	65.9706	36.7702	0.56



Mflv_1178	FAD linked oxidase domain protein	62.8771	36.2417	0.58
Mflv_1179	GtrA family protein	77.0858	47.3504	0.61
Mflv_1180	protein of unknown function DUF222	8.03602	32.51	4.05
Mflv_1181	transcriptional regulator, GntR family	24.2796	42.8889	1.77
Mflv_1182	alkylhydroperoxidase like protein, AhpD family	24.5524	27.0042	1.10
Mflv_1183	conserved hypothetical protein	2938.31	38.5188	0.01
Mflv_1184	ABC-2 type transporter	167.802	43.4552	0.26
Mflv_1185	glycosyl transferase, family 2	28.6162	48.7773	1.70
Mflv_1186	ABC transporter related protein	30.947	57.0619	1.84
Mflv_1187	conserved hypothetical protein	142.013	36.787	0.26
Mflv_1188	cysteine desulfurase family protein	92.4973	67.7055	0.73
Mflv_1189	Alcohol dehydrogenase, zinc-binding domain protein	42.0798	47.806	1.14
Mflv_1190	transcriptional regulator, MarR family	58.6975	28.1158	0.48
Mflv_1191	RNA polymerase, sigma-24 subunit, ECF subfamily	34.7545	46.041	1.32
Mflv_1192	conserved hypothetical protein	17.8397	55.6655	3.12
Mflv_1193	Enoyl-CoA hydratase/isomerase	81.3317	36.0675	0.44
Mflv_1194	conserved hypothetical protein	128.82	29.2174	0.23
Mflv_1195	aminotransferase	58.6282	35.4403	0.60
Mflv_1196	Cytochrome-c oxidase	239.905	63.2364	0.26
Mflv_1197	transposase, IS111A/IS1328/IS1533	31.0422	49.7102	1.60
Mflv_1198	phosphodiesterase, MJ0936 family	326.397	37.3756	0.11
Mflv_1199	transposase, IS4 family	0	0	-
Mflv_1200	Cupin 2, conserved barrel domain protein	11.7374	26.0245	2.22
Mflv_1201	beta-lactamase domain protein	22.9546	38.7126	1.69
Mflv_1202	short-chain dehydrogenase/reductase SDR	29.13	41.8405	1.44
Mflv_1203	Phosphoglycerate mutase	27.2074	23.9975	0.88
Mflv_1204	aminoglycoside phosphotransferase	48.925	33.7188	0.69
Mflv_1205	transglutaminase domain protein	146.355	40.043	0.27
Mflv_1206	Uncharacterized integral membrane protein-like protein	599.517	39.2901	0.07
Mflv_1207	Substrate-binding region of ABC-type glycine betaine transport system	21.9767	41.6072	1.89
Mflv_1208	ABC transporter related protein	25.6562	34.7754	1.36
Mflv_1209	binding-protein-dependent transport systems inner membrane component	11.126	30.7183	2.76
Mflv_1210	binding-protein-dependent transport systems inner membrane component	34.8733	56.5679	1.62
Mflv_1211	protein of unknown function DUF1089	440.817	63.1826	0.14
Mflv_1212	prephenate dehydrogenase	32.9658	37.548	1.14
Mflv_1213	conserved hypothetical protein	227.149	71.3146	0.31

Mflv_1214	tRNA-adenosine deaminase	74.2734	40.6892	0.55
Mflv_1215	conserved hypothetical protein	0	18.1467	Pyrene
Mflv_1216	hypothetical protein	18.8787	36.4102	1.93
Mflv_1217	CsbD family protein	23670.3	688.707	0.03
Mflv_1218	Alcohol dehydrogenase GroES domain protein	379.016	42.5011	0.11
Mflv_1219	PTS system D-mannitol-specific IIB component,Fru family / PTS system D-mannitol-specific IIC component,Fru family / PTS system D-mannitol-specific IIA component, Fru family	124.082	34.1489	0.28
Mflv_1220	transcriptional regulator, DeoR family	96.5317	45.8255	0.47
Mflv_1221	conserved hypothetical protein	5515.19	84.3063	0.02
Mflv_1222	2-nitropropane dioxygenase, NPD	23.3908	42.1017	1.80
Mflv_1223	dihydrodipicolinate reductase	29.3503	30.0994	1.03
Mflv_1224	putative secreted protein	263.325	49.1138	0.19
Mflv_1225	protein of unknown function DUF732	432.01	95.92	0.22
Mflv_1226	lipoprotein antigen family protein	731.064	151.549	0.21
Mflv_1227	conserved hypothetical protein	77.9808	54.1401	0.69
Mflv_1228	tRNA-guanine transglycosylase	13.9002	27.9928	2.01
Mflv_1229	cytochrome P450	24.773	37.1472	1.50
Mflv_1230	Amine oxidase (flavin-containing)	22.1305	21.9227	0.99
Mflv_1231	amino acid ABC transporter ATP-binding protein,PAAT family	16.872	30.2236	1.79
Mflv_1232	amino acid ABC transporter substrate-binding protein, PAAT family / amino acid ABC transporter membrane protein, PAAT family	61.8115	34.0013	0.55
Mflv_1233	Glutamate--tRNA ligase	20.9777	19.6212	0.94
Mflv_1234	transcriptional regulator, GntR family	47.2969	32.3151	0.68
Mflv_1235	short-chain dehydrogenase/reductase SDR	31.1644	26.2793	0.84
Mflv_1236	aminoglycoside phosphotransferase	96.1133	40.1502	0.42
Mflv_1237	conserved hypothetical protein	252.082	17.402	0.07
Mflv_1238	microcompartments protein	0	21.1688	Pyrene
Mflv_1239	ethanolamine utilization protein EutN/carboxysome structural protein CcmL	107.646	16.8643	0.16
Mflv_1240	conserved hypothetical protein	6.36383	31.1533	4.90
Mflv_1241	microcompartments protein	5.86393	20.3388	3.47
Mflv_1242	aldehyde dehydrogenase	14.6348	34.0531	2.33
Mflv_1243	aminotransferase	15.8442	27.8141	1.76
Mflv_1244	amino acid/polyamine/organocation transporter,APC superfamily	23.7067	44.3093	1.87
Mflv_1245	Glycerol dehydratase	22.5044	42.5242	1.89

Mflv_1246	propanediol utilization: dehydratase, small subunit	22.2324	37.635	1.69
Mflv_1247	conserved hypothetical protein	7.957	37.1725	4.67
Mflv_1248	conserved hypothetical protein	10.9128	101.927	9.34
Mflv_1249	conserved hypothetical protein	13.6495	7.40927	0.54
Mflv_1250	cytochrome c oxidase, subunit III	5.55486	49.8393	8.97
Mflv_1251	conserved hypothetical protein	15.1477	38.8158	2.56
Mflv_1252	conserved hypothetical protein	17.9428	65.799	3.67
Mflv_1253	transcriptional regulator, TetR family	12.2687	26.0341	2.12
Mflv_1254	ATP dependent DNA ligase	18.3088	25.8828	1.41
Mflv_1255	glucose-methanol-choline oxidoreductase	16.7946	32.6331	1.94
Mflv_1256	short-chain dehydrogenase/reductase SDR	14.331	14.5317	1.01
Mflv_1257	cytochrome P450	9.70696	26.5271	2.73
Mflv_1258	short-chain dehydrogenase/reductase SDR	13.3625	30.9607	2.32
Mflv_1259	cytochrome P450	14.7236	43.8651	2.98
Mflv_1260	short-chain dehydrogenase/reductase SDR	11.3643	31.533	2.77
Mflv_1261	luciferase family protein	4.53994	20.6794	4.55
Mflv_1262	nitroreductase	22.6575	27.091	1.20
Mflv_1263	short-chain dehydrogenase/reductase SDR	9.82879	20.1546	2.05
Mflv_1264	Glyoxalase/bleomycin resistance protein/dioxygenase	7.10053	28.2136	3.97
Mflv_1265	luciferase-like protein	8.96006	27.2935	3.05
Mflv_1266	cytochrome P450	20.5358	25.377	1.24
Mflv_1267	short-chain dehydrogenase/reductase SDR	7.07796	29.2612	4.13
Mflv_1268	conserved hypothetical protein	18.3782	84.3837	4.59
Mflv_1269	putative monooxygenase	11.6321	37.8965	3.26
Mflv_1270	transcriptional regulator, TetR family	22.1359	30.1871	1.36
Mflv_1271	transposase, IS204/IS1001/IS1096/IS1165 family protein	0	0	-
Mflv_1272	HNH endonuclease	21.7537	46.0253	2.12
Mflv_1273	ATP dependent DNA ligase	87.9128	37.7895	0.43
Mflv_1274	DNA primase, small subunit	24.3502	22.6291	0.93
Mflv_1275	conserved hypothetical protein	32.5509	51.2612	1.57
Mflv_1276	Thioesterase	20.4671	30.925	1.51
Mflv_1277	dihydrodipicolinate reductase	23.1372	26.0153	1.12
Mflv_1278	PDZ/DHR/GLGF domain protein	96.4953	46.2807	0.48
Mflv_1279	conserved hypothetical protein	221.099	131.006	0.59
Mflv_1280	family	118.516	58.653	0.49
Mflv_1281	DNA polymerase III, tau subunit	38.8312	42.474	1.09
Mflv_1282	conserved hypothetical protein	78.6164	65.0259	0.83
Mflv_1283	Cyclopropane-fatty-acyl-phospholipid synthase	73.3009	75.8488	1.03

Mflv_1284	FAD linked oxidase domain protein	120.603	47.3926	0.39
Mflv_1285	conserved hypothetical protein	291.862	58.9542	0.20
Mflv_1286	cell wall hydrolase/autolysin	161.735	39.6084	0.24
Mflv_1287	conserved hypothetical protein 103	32.7139	45.3888	1.39
Mflv_1288	DNA replication and repair protein RecR	140.998	37.8271	0.27
Mflv_1289	conserved hypothetical protein	58.9947	66.5937	1.13
Mflv_1290	CobB/CobQ domain protein glutamine amidotransferase	27.8207	46.5996	1.67
Mflv_1291	domain of unknown function DUF1727	20.4557	37.0663	1.81
Mflv_1292	DNA polymerase III, epsilon subunit	86.1167	96.0322	1.12
Mflv_1293	2-isopropylmalate synthase	194.319	180.459	0.93
Mflv_1294	hypothetical protein	105.502	40.0711	0.38
Mflv_1295	transcriptional regulator, XRE family	53.0166	35.5532	0.67
Mflv_1296	FAD dependent oxidoreductase	10.404	34.4083	3.31
Mflv_1297	glutamate synthase (NADPH) GltB2 subunit	12.8265	25.9916	2.03
Mflv_1298	glutamate synthase (NADPH) GltB3 subunit	13.9995	28.1098	2.01
Mflv_1299	glutamine amidotransferase, class-II	9.90957	31.1146	3.14
Mflv_1300	Glutamate--ammonia ligase	12.6101	27.2	2.16
Mflv_1301	ammonium transporter	16.6677	35.2236	2.11
Mflv_1302	penicillin amidase. Cysteine peptidase. MEROPS family C59	17.4342	18.2919	1.05
Mflv_1303	nitroreductase	4.7504	26.4706	5.57
Mflv_1304	aspartate kinase	147.428	57.637	0.39
Mflv_1305	aspartate semialdehyde dehydrogenase	152.921	86.1985	0.56
Mflv_1306	conserved hypothetical protein	13.9178	42.4026	3.05
Mflv_1307	conserved hypothetical protein	23.3767	15.4965	0.66
Mflv_1308	Catalase	1308.28	183.058	0.14
Mflv_1309	SSU ribosomal protein S18P	342.814	116.815	0.34
Mflv_1310	SSU ribosomal protein S14P	153.928	37.119	0.24
Mflv_1311	LSU ribosomal protein L33P	589.846	42.6413	0.07
Mflv_1312	LSU ribosomal protein L28P	379.316	29.2854	0.08
Mflv_1313	cobalamin synthesis CobW domain protein	19.0018	34.8458	1.83
Mflv_1314	conserved hypothetical protein	62.6288	35.9867	0.57
Mflv_1315	glutamate--cysteine ligase, GCS2	69.6938	37.6691	0.54
Mflv_1316	protein of unknown function DUF323	19.9169	32.478	1.63
Mflv_1317	conserved hypothetical protein	13.9238	30.5708	2.20
Mflv_1318	conserved hypothetical protein	34.7003	38.8855	1.12
Mflv_1319	aminotransferase, class V	20.8161	42.285	2.03
Mflv_1320	diguanylate phosphodiesterase	17.9166	40.4731	2.26
Mflv_1321	cytochrome P450	15.0062	43.404	2.89
Mflv_1322	transcriptional regulator, TetR family	55.8262	30.9773	0.55

Mflv_1323	sodium:dicarboxylate symporter	98.4468	40.4103	0.41
Mflv_1324	Methyltransferase type 11	126.923	55.4081	0.44
Mflv_1325	conserved hypothetical protein	36.1642	45.8229	1.27
Mflv_1326	Methyltransferase type 11	8.00756	20.2719	2.53
Mflv_1327	glycerol kinase	31.5848	22.7001	0.72
Mflv_1328	bacterial peptide chain release factor 3 (bRF-3)	92.8193	42.3751	0.46
Mflv_1329	aldo/keto reductase	90.4013	39.4592	0.44
Mflv_1330	transcriptional regulator, PadR family	44.7122	29.4687	0.66
Mflv_1331	transcriptional regulator, PadR family	93.5841	34.8367	0.37
Mflv_1332	Carotenoid oxygenase	60.1473	49.7035	0.83
Mflv_1333	RDD domain containing protein	44.9551	28.9869	0.64
Mflv_1334	protein of unknown function DUF95 transmembrane	164.002	58.3437	0.36
Mflv_1335	conserved hypothetical protein	9.25616	21.422	2.31
Mflv_1336	protein of unknown function DUF58	6.7104	24.3092	3.62
Mflv_1337	ATPase associated with various cellular activities, AAA_3	12.4225	25.0608	2.02
Mflv_1338	conserved hypothetical protein	6.68059	28.5675	4.28
Mflv_1339	conserved hypothetical protein	16.7307	20.4639	1.22
Mflv_1340	putative conserved transmembrane protein	72.8667	58.7023	0.81
Mflv_1341	luciferase family protein	1453.35	79.2344	0.05
Mflv_1342	phosphoesterase, PA-phosphatase related protein	418.911	51.7072	0.12
Mflv_1343	conserved hypothetical protein	36.7066	31.2647	0.85
Mflv_1344	conserved hypothetical protein	15.3577	26.4531	1.72
Mflv_1345	N-6 DNA methylase	34.6757	24.6861	0.71
Mflv_1346	Transcriptional regulator, LysR family	117.526	37.2917	0.32
Mflv_1347	acetyl-CoA acetyltransferase	37.0182	118.51	3.20
Mflv_1348	3-oxoadipate enol-lactonase	17.5173	76.009	4.34
Mflv_1349	3-oxoacid CoA-transferase, A subunit	19.4101	63.7363	3.28
Mflv_1350	butyryl-CoA:acetate CoA transferase	27.4694	178.333	6.49
Mflv_1351	response regulator receiver protein	26.5094	62.0916	2.34
Mflv_1352	transcriptional regulator, LuxR family	13.5927	22.2004	1.63
Mflv_1353	protein	7.35366	23.437	3.19
Mflv_1354	2-chlorobenzoate 1,2-dioxygenase	9.21634	17.1032	1.86
Mflv_1355	benzoate 1,2-dioxygenase, alpha subunit	8.99166	23.7705	2.64
Mflv_1356	transcriptional regulator, LysR family	19.8611	23.4813	1.18
Mflv_1357	Mandelate racemase/muconate lactonizing enzyme, C-terminal domain protein	15.6396	30.8688	1.97
Mflv_1358	catechol 1,2-dioxygenase	39.8351	50.5365	1.27
Mflv_1359	muconolactone delta-isomerase	0	40.3732	Pyrene

Mflv_1360	conserved hypothetical protein	735.693	329.222	0.45
Mflv_1361	protein of unknown function DUF81	205.051	102.823	0.50
Mflv_1362	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	177.349	40.6916	0.23
Mflv_1363	Pyridoxal-5'-phosphate-dependent enzyme, beta subunit	201.434	591.879	2.94
Mflv_1364	metallophosphoesterase	495.743	136.934	0.28
Mflv_1365	glycosyl transferase, family 51	125.967	62.5433	0.50
Mflv_1366	transcription factor WhiB	1164.17	323.044	0.28
Mflv_1367	arsenite efflux ATP-binding protein ArsA	84.0368	77.2256	0.92
Mflv_1368	arsenite efflux ATP-binding protein ArsA	70.6681	53.7224	0.76
Mflv_1369	Endoribonuclease L-PSP	25.1658	45.3713	1.80
Mflv_1370	beta-lactamase domain protein	53.2664	52.6302	0.99
Mflv_1371	transcriptional regulator, Crp/Fnr family	362.81	127.034	0.35
Mflv_1372	putative membrane protein	1375.75	65.9289	0.05
Mflv_1373	endonuclease III	128.232	57.6925	0.45
Mflv_1374	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	15.4215	27.6007	1.79
Mflv_1375	NUDIX hydrolase	11.2736	25.9998	2.31
Mflv_1376	Colicin V production protein	62.2356	71.5692	1.15
Mflv_1377	alpha/beta hydrolase fold protein	48.2461	50.7539	1.05
Mflv_1378	protein of unknown function DUF1469	165.269	111.851	0.68
Mflv_1379	peptidase S1 and S6, chymotrypsin/Hap	82.9708	64.7378	0.78
Mflv_1380	acetyl-coenzyme A synthetase	248.521	62.2319	0.25
Mflv_1381	conserved hypothetical protein	6.51186	28.3831	4.36
Mflv_1382	HAD-superfamily subfamily IB hydrolase, TIGR01490	81.8499	42.8875	0.52
Mflv_1383	conserved hypothetical protein	9.49732	18.9252	1.99
Mflv_1384	type II secretion system protein E	9.40977	18.7703	1.99
Mflv_1385	type II secretion system protein	1.31643	11.0144	8.37
Mflv_1386	type II secretion system protein	2.13477	27.5357	12.90
Mflv_1387	hypothetical protein	2.63581	25.0157	9.49
Mflv_1388	hypothetical protein	0	2.87056	Pyrene
Mflv_1389	serine/threonine protein kinase	224.045	45.4753	0.20
Mflv_1390	conserved hypothetical protein	137.854	42.7896	0.31
Mflv_1391	DEAD/DEAH box helicase domain protein	33.4266	26.0352	0.78
Mflv_1392	cold-shock DNA-binding protein family	460.859	349.508	0.76
Mflv_1393	conserved hypothetical protein	59.706	35.8566	0.60
Mflv_1394	DNA topoisomerase I	81.1461	46.3288	0.57
Mflv_1395	putative adenylate/guanylate cyclase	79.6208	39.114	0.49
Mflv_1396	DNA polymerase III, delta prime subunit	97.2781	34.7539	0.36

Mflv_1397	peptidoglycan transpeptidase precursor, ErfK-YbiS-YhnG family	100.408	55.0883	0.55
Mflv_1398	hypothetical protein	49.8502	46.0231	0.92
Mflv_1399	Allergen V5/Tpx-1 family protein	750.442	32.7324	0.04
Mflv_1400	conserved hypothetical protein	16.2792	38.9169	2.39
Mflv_1401	UDP-galactose 4-epimerase	20.4686	50.9978	2.49
Mflv_1402	putative conserved integral membrane protein	6.04237	27.575	4.56
Mflv_1403	peptidase M1, membrane alanine aminopeptidase	101.145	27.0946	0.27
Mflv_1404	non-ribosomal peptide synthetase	22.8728	28.6742	1.25
Mflv_1405	Integral membrane protein TerC	750.299	73.9208	0.10
Mflv_1406	conserved hypothetical protein	314.355	50.0991	0.16
Mflv_1407	conserved hypothetical protein	922.447	43.2211	0.05
Mflv_1408	Inorganic diphosphatase	200.247	81.9165	0.41
Mflv_1409	D-alanyl-D-alanine carboxypeptidase/D-alanyl-D-alanine-endopeptidase	50.1311	36.1583	0.72
Mflv_1410	conserved hypothetical protein	57.2511	42.2185	0.74
Mflv_1411	tRNA(Ile)-lysine synthetase	14.8593	35.421	2.38
Mflv_1412	hypoxanthine phosphoribosyltransferase	499.543	86.1822	0.17
Mflv_1413	molybdopterin dinucleotide-binding region	298.142	109.439	0.37
Mflv_1414	protein of unknown function DUF541	120.555	48.446	0.40
Mflv_1415	alpha/beta hydrolase fold protein	22.2048	28.3276	1.28
Mflv_1416	membrane protease FtsH catalytic subunit	98.22	51.4481	0.52
Mflv_1417	GTP cyclohydrolase I	117.148	62.3521	0.53
Mflv_1418	Dihydropteroate synthase	24.4075	38.4948	1.58
Mflv_1419	dihydroneopterin aldolase	65.3156	36.5916	0.56
Mflv_1420	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokinase	11.9751	36.9395	3.08
Mflv_1421	conserved hypothetical protein	20.1542	68.2686	3.39
Mflv_1422	hypothetical protein	43.8256	38.4555	0.88
Mflv_1423	NAD-dependent glycerol-3-phosphate dehydrogenase-like protein	28.6659	29.463	1.03
Mflv_1424	pantothenate synthetase	26.114	50.4678	1.93
Mflv_1425	L-aspartate 1-decarboxylase	27.4818	33.383	1.21
Mflv_1426	pantothenate kinase	40.8192	66.981	1.64
Mflv_1427	conserved hypothetical protein	10.5435	36.7938	3.49
Mflv_1428	lysyl-tRNA synthetase	68.4388	58.3471	0.85
Mflv_1429	Lsr2	234.827	51.6806	0.22
Mflv_1430	ATPase AAA-2 domain protein	532.859	345.646	0.65
Mflv_1431	conserved hypothetical protein	0	280.261	Pyrene
Mflv_1432	conserved hypothetical protein	152.112	82.1388	0.54

Mflv_1433	Phosphoglycerate mutase	41.9366	39.9674	0.95
Mflv_1434	beta-lactamase	68.5927	52.1683	0.76
Mflv_1435	alpha/beta hydrolase fold protein	23.7707	43.3232	1.82
Mflv_1436	conserved hypothetical protein	640.043	187.729	0.29
Mflv_1437	transcriptional regulator, AraC family	112.258	57.5365	0.51
Mflv_1438	HhH-GPD family protein	9.28815	39.5369	4.26
Mflv_1439	carbonic anhydrase	241.419	103.514	0.43
Mflv_1440	conserved hypothetical protein	136.215	48.0518	0.35
Mflv_1441	protein of unknown function DUF147	82.0072	37.8265	0.46
Mflv_1442	DNA repair protein RadA	46.5336	32.8632	0.71
Mflv_1443	hypothetical protein	520.89	45.5872	0.09
Mflv_1444	transcriptional regulator, CarD family	9702.2	1635.98	0.17
Mflv_1445	2C-methyl-D-erythritol 2,4-cyclodiphosphate synthase	1834.14	192.977	0.11
Mflv_1446	cysteinyI-tRNA synthetase	118.1	68.2362	0.58
Mflv_1447	RNA methyltransferase, TrmH family, group 3	30.8992	83.3066	2.70
Mflv_1448	arsenite efflux membrane protein ArsB	8.01657	51.1686	6.38
Mflv_1449	conserved hypothetical protein	15.7943	33.7925	2.14
Mflv_1450	major facilitator superfamily MFS_1	12.7006	38.8753	3.06
Mflv_1451	LamB/YcsF family protein	51.0691	37.2075	0.73
Mflv_1452	3-mercaptopyruvate sulfurtransferase	21.7562	45.698	2.10
Mflv_1453	diguanylate cyclase	30.4031	51.4629	1.69
Mflv_1454	periplasmic solute binding protein	44.2975	41.8417	0.94
Mflv_1455	ABC transporter related protein	15.0702	34.7052	2.30
Mflv_1456	ABC-3 protein	30.4762	62.2097	2.04
Mflv_1457	transcriptional regulator, LacI family	25.1621	41.5707	1.65
Mflv_1458	trehalose 6-phosphatase	30.6214	31.532	1.03
Mflv_1459	transcriptional regulator, TetR family	80.5332	42.4559	0.53
Mflv_1460	acyl-CoA dehydrogenase domain protein	12.0369	38.3384	3.19
Mflv_1461	hypothetical protein	38.2338	53.7114	1.40
Mflv_1462	ferredoxin	46.3454	38.855	0.84
Mflv_1463	Acyl-CoA dehydrogenase, type 2, C-terminal	574.356	184.208	0.32
Mflv_1464	alpha/beta hydrolase fold protein	3020.76	123.941	0.04
Mflv_1465	Glyoxalase/bleomycin resistance protein/dioxygenase	3438.75	133.794	0.04
Mflv_1466	flavin reductase domain protein, FMN-binding	1567.26	310.233	0.20
Mflv_1467	hypothetical protein	417.435	71.7548	0.17
Mflv_1468	transcriptional regulator, TetR family	86.2875	40.4715	0.47
Mflv_1469	alpha/beta hydrolase fold protein	35.2007	32.5833	0.93



Mflv_1470	transcriptional regulator, LysR family	26.6179	44.0729	1.66
Mflv_1471	General substrate transporter	64.7627	53.972	0.83
Mflv_1472	short-chain dehydrogenase/reductase SDR	65.1897	36.8134	0.56
Mflv_1473	acetoacetyl-CoA synthase	57.6776	41.9809	0.73
Mflv_1474	conserved hypothetical protein	38.1054	55.2729	1.45
Mflv_1475	major facilitator superfamily MFS_1	6.62385	24.7984	3.74
Mflv_1476	aminotransferase	37.2876	38.3736	1.03
Mflv_1477	acyl-CoA dehydrogenase domain protein	30.6752	30.182	0.98
Mflv_1478	acyl-CoA dehydrogenase domain protein	7.81368	24.0134	3.07
Mflv_1479	acyl-CoA dehydrogenase domain protein	18.5866	42.1094	2.27
Mflv_1480	AMP-dependent synthetase and ligase	34.179	25.6265	0.75
Mflv_1481	acyl-CoA dehydrogenase domain protein	278.008	56.6823	0.20
Mflv_1482	short-chain dehydrogenase/reductase SDR	170.854	41.164	0.24
Mflv_1483	transcriptional regulator, TetR family	88.7107	45.3136	0.51
Mflv_1484	acetyl-CoA acetyltransferase	68.7962	48.5161	0.71
Mflv_1485	hypothetical protein	11.6562	38.8125	3.33
Mflv_1486	Alcohol dehydrogenase GroES domain protein	33.9283	33.3708	0.98
Mflv_1487	2-nitropropane dioxygenase, NPD	29.7526	42.2676	1.42
Mflv_1488	putative CoA transferase beta subunit	42.6855	97.9141	2.29
Mflv_1489	coenzyme A transferase	47.6531	66.6804	1.40
Mflv_1490	Enoyl-CoA hydratase/isomerase	58.2207	52.64	0.90
Mflv_1491	short-chain dehydrogenase/reductase SDR	113.481	50.7563	0.45
Mflv_1492	short-chain dehydrogenase/reductase SDR	52.7702	48.5624	0.92
Mflv_1493	putative GAF sensor protein	107.035	56.3142	0.53
Mflv_1494	glycosyl transferase, group 1	55.5039	55.6782	1.00
Mflv_1495	polysaccharide biosynthesis protein	44.2705	68.08	1.54
Mflv_1496	conserved hypothetical protein	20.2348	27.521	1.36
Mflv_1497	O-antigen polymerase	17.6303	43.2042	2.45
Mflv_1498	glycosyl transferase, group 1	25.462	38.4506	1.51
Mflv_1499	conserved hypothetical protein	15.3098	34.4855	2.25
Mflv_1500	glycosyl transferase, group 1	37.1589	56.9918	1.53
Mflv_1501	glycosyl transferase, group 1	24.5609	29.8858	1.22
Mflv_1502	hypothetical protein	33.7182	76.0726	2.26
Mflv_1503	conserved hypothetical protein	51.0112	50.3286	0.99
Mflv_1504	conserved hypothetical protein	32.6549	44.8759	1.37
Mflv_1505	conserved hypothetical protein	62.8064	31.3152	0.50
Mflv_1506	conserved hypothetical protein	89.6763	29.2408	0.33
Mflv_1507	acetyl-CoA acetyltransferase	710.142	96.9742	0.14
Mflv_1508	cytochrome P450	470.338	54.2355	0.12
Mflv_1509	acyl-CoA dehydrogenase domain protein	138.182	64.0008	0.46

Mflv_1510	acyl-CoA dehydrogenase domain protein	32.9097	43.6809	1.33
Mflv_1511	protein of unknown function DUF35	24.5464	33.6408	1.37
Mflv_1512	MaoC domain protein dehydratase	16.4909	73.3569	4.45
Mflv_1513	lipid-transfer protein	20.2962	47.8437	2.36
Mflv_1514	conserved hypothetical protein	84.6459	22.8223	0.27
Mflv_1515	FHA domain containing protein	38.0124	22.9146	0.60
Mflv_1516	hypothetical protein	33.7084	27.6978	0.82
Mflv_1517	hypothetical protein	590.296	106.056	0.18
Mflv_1518	MaoC domain protein dehydratase	26.9936	51.5367	1.91
Mflv_1519	fumarate reductase/succinate dehydrogenase	59.9111	42.95	0.72
Mflv_1520	4-oxalocrotonate decarboxylase	348.816	96.1405	0.28
Mflv_1521	acetaldehyde dehydrogenase	178.697	112.651	0.63
Mflv_1522	pyruvate carboxyltransferase	115.142	123.423	1.07
Mflv_1523	channel protein, hemolysin III family	39.7629	86.5682	2.18
Mflv_1524	ATP-dependent DNA helicase, RecQ-like protein	26.4406	47.9314	1.81
Mflv_1525	hypothetical protein	292.385	34.3978	0.12
Mflv_1526	transcriptional regulator, TetR family	14.0631	18.3858	1.31
Mflv_1527	cytochrome P450	67.23	38.2023	0.57
Mflv_1528	regulatory protein, IclR	28.4684	34.2788	1.20
Mflv_1529	conserved hypothetical protein	68.5389	34.0076	0.50
Mflv_1530	short-chain dehydrogenase/reductase SDR	20.6625	55.2734	2.68
Mflv_1531	conserved hypothetical protein	52.4056	43.2825	0.83
Mflv_1532	conserved hypothetical protein	816.959	55.5166	0.07
Mflv_1533	Rieske (2Fe-2S) domain protein	1506.7	59.7855	0.04
Mflv_1534	major facilitator superfamily MFS_1	91.9942	39.9441	0.43
Mflv_1535	transcriptional regulator, TetR family	22.253	17.1998	0.77
Mflv_1536	acetyl-CoA acyltransferase	23.8427	25.4232	1.07
Mflv_1537	lipid-transfer protein	9.00818	28.389	3.15
Mflv_1538	protein of unknown function DUF35	35.0313	47.382	1.35
Mflv_1539	luciferase family protein	32.0102	48.9398	1.53
Mflv_1540	conserved hypothetical protein	29.84	40.3744	1.35
Mflv_1541	cytochrome P450	36.6635	39.8855	1.09
Mflv_1542	short chain enoyl-CoA hydratase	40.9956	36.6045	0.89
Mflv_1543	AMP-dependent synthetase and ligase	139.93	48.4507	0.35
Mflv_1544	2-nitropropane dioxygenase, NPD	54.9139	40.4616	0.74
Mflv_1545	thiamine pyrophosphate enzyme domain protein	22.5586	51.6638	2.29
Mflv_1546	Rieske (2Fe-2S) domain protein	18.4604	36.8153	1.99
Mflv_1547	fumarate reductase/succinate dehydrogenase	12.3779	27.6664	2.24

Mflv_1548	AMP-dependent synthetase and ligase	9.70377	30.9357	3.19
Mflv_1549	AMP-dependent synthetase and ligase	8.42567	23.6827	2.81
Mflv_1550	acyl-CoA dehydrogenase domain protein	21.3724	27.2781	1.28
Mflv_1551	acyl-CoA dehydrogenase domain protein	31.8921	28.8444	0.90
Mflv_1552	hypothetical protein	99.567	181.066	1.82
Mflv_1553	short-chain dehydrogenase/reductase SDR	86.4444	46.0833	0.53
Mflv_1554	protein of unknown function DUF140	38.255	35.9739	0.94
Mflv_1555	protein of unknown function DUF140	24.1978	43.0929	1.78
Mflv_1556	virulence factor Mce family protein	9.47977	28.5067	3.01
Mflv_1557	virulence factor Mce family protein	11.2118	29.1956	2.60
Mflv_1558	virulence factor Mce family protein	12.7859	38.5754	3.02
Mflv_1559	virulence factor Mce family protein	22.2676	62.3851	2.80
Mflv_1560	virulence factor Mce family protein	24.7563	46.7242	1.89
Mflv_1561	virulence factor Mce family protein	18.3896	24.7935	1.35
Mflv_1562	conserved hypothetical protein	969.77	16.6779	0.02
Mflv_1563	conserved hypothetical protein	8.27223	22.6852	2.74
Mflv_1564	NAD-dependent epimerase/dehydratase	13.0043	41.5291	3.19
Mflv_1565	NAD-dependent epimerase/dehydratase	34.3045	29.2902	0.85
Mflv_1566	trehalose 6-phosphate synthase	48.4324	51.2554	1.06
Mflv_1567	conserved hypothetical protein	580.755	167.652	0.29
Mflv_1568	Enoyl-CoA hydratase/isomerase	72.2223	47.1583	0.65
Mflv_1569	short-chain dehydrogenase/reductase SDR	20.3384	26.415	1.30
Mflv_1570	2Fe-2S)-binding domain protein	21.9114	92.8636	4.24
Mflv_1571	Carbon-monoxide dehydrogenase (acceptor)	8.71297	31.5415	3.62
Mflv_1572	carbon monoxide dehydrogenase subunit G	7.66866	26.5742	3.47
Mflv_1573	xanthine dehydrogenase, molybdenum binding	11.1077	25.0855	2.26
Mflv_1574	protein of unknown function DUF182	13.9801	39.8324	2.85
Mflv_1575	peptidase M15D, vanX D-ala-D-ala dipeptidase	31.4052	41.9144	1.33
Mflv_1576	hypothetical protein	100.924	40.7503	0.40
Mflv_1577	trehalose synthase	86.4698	37.0553	0.43
Mflv_1578	HNH endonuclease	65.0114	33.1225	0.51
Mflv_1579	HNH endonuclease	124.682	56.8449	0.46
Mflv_1580	conserved hypothetical protein	141.101	28.9617	0.21
Mflv_1581	two component transcriptional regulator, winged	407.129	186.707	0.46
Mflv_1582	integral membrane sensor signal transduction protein	58.2448	61.1229	1.05
Mflv_1583	histidine triad (HIT) protein	177.419	58.8939	0.33
Mflv_1584	hypothetical protein	130.846	57.7835	0.44

Mflv_1585	AMP-dependent synthetase and ligase	33.2111	59.4195	1.79
Mflv_1586	short-chain dehydrogenase/reductase SDR	31.4718	48.74	1.55
Mflv_1587	cytochrome P450	13.3101	23.1345	1.74
Mflv_1588	transcriptional regulator, TetR family	21.6713	36.82	1.70
Mflv_1589	short-chain dehydrogenase/reductase SDR	21.2811	40.7788	1.92
Mflv_1590	luciferase family protein	9.25631	30.9331	3.34
Mflv_1591	short-chain dehydrogenase/reductase SDR	13.8244	31.0721	2.25
Mflv_1592	nuclear transport factor 2	50.8201	32.2206	0.63
Mflv_1593	Alcohol dehydrogenase GroES domain protein	54.0691	42.0147	0.78
Mflv_1594	conserved hypothetical protein	37.1581	46.2264	1.24
Mflv_1595	conserved hypothetical protein	0	63.2334	Pyrene
Mflv_1596	cytochrome P450	21.9684	46.3404	2.11
Mflv_1597	short-chain dehydrogenase/reductase SDR	16.8491	20.8017	1.23
Mflv_1598	cytochrome P450	38.0936	29.6776	0.78
Mflv_1599	transcriptional regulator, TetR family	52.5833	23.2354	0.44
Mflv_1600	aldehyde dehydrogenase	17.144	31.1339	1.82
Mflv_1601	short-chain dehydrogenase/reductase SDR	14.8177	30.7651	2.08
Mflv_1602	6-phosphogluconate dehydrogenase, NAD-binding	37.8942	55.315	1.46
Mflv_1603	Carboxymuconolactone decarboxylase	20.387	39.9074	1.96
Mflv_1604	conserved hypothetical protein	13.4825	33.963	2.52
Mflv_1605	conserved hypothetical protein	27.3425	40.2278	1.47
Mflv_1606	transcriptional regulator, TetR family	36.6311	50.472	1.38
Mflv_1607	cytochrome P450	22.4819	42.8202	1.90
Mflv_1608	phosphoribosylamine--glycine ligase	47.4394	27.8248	0.59
Mflv_1609	putative esterase	18.4659	37.4144	2.03
Mflv_1610	family	28.0668	49.1063	1.75
Mflv_1611	amino acid/polyamine/organocation transporter, APC superfamily	50.4259	55.5084	1.10
Mflv_1612	RelA/SpoT domain protein	14.1594	28.5617	2.02
Mflv_1613	adenylosuccinate lyase	91.3778	40.8401	0.45
Mflv_1614	protein of unknown function DUF1707	86.2123	41.3992	0.48
Mflv_1615	putative conserved transmembrane protein	5.12486	25.6227	5.00
Mflv_1616	phosphoribosylaminoimidazole-succinocarboxamide synthase	68.6743	34.8241	0.51
Mflv_1617	oligopeptidase B. Serine peptidase. MEROPS family S09A	49.6003	58.3203	1.18
Mflv_1618	transcriptional regulator, TetR family	9.94492	34.0321	3.42
Mflv_1619	glutathione peroxidase	165.376	71.9973	0.44
Mflv_1620	conserved hypothetical protein	50.1567	35.3416	0.70
Mflv_1621	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	28.5558	33.8165	1.18

Mflv_1622	beta-lactamase domain protein	132.369	41.3214	0.31
Mflv_1623	conserved hypothetical protein	4.95035	23.568	4.76
Mflv_1624	phosphoribosylformylglycinamide synthase, purS	679.409	116.348	0.17
Mflv_1625	phosphoribosylformylglycinamide synthase subunit I	131.4	74.8674	0.57
Mflv_1626	Linocin_M18 bacteriocin protein	60.0215	47.1083	0.78
Mflv_1627	Dyp-type peroxidase family	41.6574	50.064	1.20
Mflv_1628	Aspartyl aminopeptidase	36.1452	25.8702	0.72
Mflv_1629	glyoxalase/bleomycin resistance protein/dioxygenase	55.4728	33.9769	0.61
Mflv_1630	phosphoribosylformylglycinamide synthase subunit II	123.798	78.8311	0.64
Mflv_1631	conserved hypothetical protein	24.1526	39.9127	1.65
Mflv_1632	Abortive infection protein	12.4094	26.9227	2.17
Mflv_1633	conserved hypothetical protein	3.36901	34.6153	10.27
Mflv_1634	amidophosphoribosyltransferase	111.601	49.2432	0.44
Mflv_1635	NAD-dependent epimerase/dehydratase	231.8	58.1093	0.25
Mflv_1636	phosphoribosylformylglycinamide cycloligase	403.572	70.2288	0.17
Mflv_1637	conserved hypothetical protein	1643.78	302.539	0.18
Mflv_1638	glycine cleavage T protein (aminomethyl transferase)	79.5855	68.3112	0.86
Mflv_1639	putative amino acid aminotransferase	28.9927	32.0776	1.11
Mflv_1640	transcriptional regulator, TetR family	29.0622	32.9281	1.13
Mflv_1641	hypothetical protein	93.1371	7.9688	0.09
Mflv_1642	conserved hypothetical protein	138.565	71.3438	0.51
Mflv_1643	hypothetical protein	0	0	-
Mflv_1644	protein of unknown function DUF732	0	136.642	Pyrene
Mflv_1645	protein of unknown function DUF1416	160.447	166.905	1.04
Mflv_1646	thiosulfate sulfurtransferase	235.965	158.551	0.67
Mflv_1647	conserved hypothetical protein	706.105	75.3342	0.11
Mflv_1648	Thioredoxin domain	61.0012	49.0116	0.80
Mflv_1649	conserved hypothetical protein	60.1949	37.6243	0.63
Mflv_1650	response regulator receiver protein	75.1661	43.359	0.58
Mflv_1651	GCN5-related N-acetyltransferase	18.5147	30.0438	1.62
Mflv_1652	transcriptional regulator, ArsR family	175.874	77.5404	0.44
Mflv_1653	Glyoxalase/bleomycin resistance protein/dioxygenase	13.2688	158.658	11.96
Mflv_1654	arsenite efflux ATP-binding protein ArsA	27.4957	52.598	1.91
Mflv_1655	Arsenical resistance operon trans-acting repressor ArsD	39.6737	139.942	3.53
Mflv_1656	protein tyrosine phosphatase	20.1601	54.2703	2.69

Mflv_1657	arsenical-resistance protein	44.1499	62.8706	1.42
Mflv_1658	transcriptional regulator, ArsR family	418.785	61.6584	0.15
Mflv_1659	protein tyrosine phosphatase	77.727	72.6156	0.93
Mflv_1660	transcriptional regulator, ArsR family	392.176	33.181	0.08
Mflv_1661	phosphate ABC transporter substrate-binding protein, PhoT family	99.6683	48.2279	0.48
Mflv_1662	phosphate ABC transporter membrane protein 1, PhoT family	52.4082	46.9581	0.90
Mflv_1663	phosphate ABC transporter membrane protein 2, PhoT family	44.0611	75.7579	1.72
Mflv_1664	phosphate ABC transporter ATP-binding protein, PhoT family	51.8681	56.3678	1.09
Mflv_1665	phosphate uptake regulator, PhoU	481.406	43.9118	0.09
Mflv_1666	cell envelope-related transcriptional attenuator	149.38	59.9821	0.40
Mflv_1667	putative TIM-barrel protein, nifR3 family	330.136	70.9147	0.21
Mflv_1668	fatty acid desaturase, type 2	5214.79	200.142	0.04
Mflv_1669	transcriptional regulator, TetR family	36.2839	35.7607	0.99
Mflv_1670	GTP cyclohydrolase subunit MoaC	137.881	52.1035	0.38
Mflv_1670	conserved hypothetical protein	24.0721	31.4935	1.31
Mflv_1671	protein kinase	60.0332	23.6835	0.39
Mflv_1672	putative conserved exported protein	185.23	78.6084	0.42
Mflv_1673	chorismate mutase, putative	149.14	30.8811	0.21
Mflv_1674	transcriptional regulator, TetR family	49.3673	40.467	0.82
Mflv_1675	beta-lactamase domain protein	34.7635	42.3657	1.22
Mflv_1676	transcriptional regulator, TetR family	57.5955	27.8052	0.48
Mflv_1677	FAD dependent oxidoreductase	15.8776	60.3455	3.80
Mflv_1678	cyclase/dehydrase	73.2772	30.686	0.42
Mflv_1679	cyclase/dehydrase	73.258	91.8021	1.25
Mflv_1680	succinyldiaminopimelate aminotransferase	29.7014	33.7437	1.14
Mflv_1681	Urease accessory protein UreF	9.52001	21.397	2.25
Mflv_1682	Urease accessory protein UreE-like protein	13.8353	14.236	1.03
Mflv_1683	Urease accessory protein UreD	16.5324	21.8765	1.32
Mflv_1684	urease accessory protein UreG	15.3096	14.7241	0.96
Mflv_1685	urease, alpha subunit	10.0182	25.3916	2.53
Mflv_1686	urease, beta subunit	10.8126	34.3791	3.18
Mflv_1687	urea-binding protein	17.4484	33.5221	1.92
Mflv_1688	response regulator receiver protein	31.5414	30.2368	0.96
Mflv_1689	NADH:flavin oxidoreductase/NADH oxidase	115.322	47.2857	0.41
Mflv_1690	conserved hypothetical protein	1086.02	93.1749	0.09
Mflv_1691	acetyl-CoA acetyltransferase	169.93	31.1536	0.18
Mflv_1692	3-hydroxyacyl-CoA dehydrogenase / short chain enoyl-CoA hydratase	120.586	46.7382	0.39

Mflv_1693	transcriptional regulator, AraC family with amidase-like domain	35.0646	42.248	1.20
Mflv_1694	AMP-dependent synthetase and ligase	21.4606	43.3346	2.02
Mflv_1695	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	74.7946	18.0725	0.24
Mflv_1696	luciferase family protein	85.5653	60.1565	0.70
Mflv_1697	type III restriction enzyme, res subunit	75.2562	58.3674	0.78
Mflv_1698	hypothetical protein	31.1159	35.4688	1.14
Mflv_1699	conserved hypothetical protein	28.135	27.7479	0.99
Mflv_1701	molybdopterin adenylyltransferase	46.3811	45.3066	0.98
Mflv_1702	molybdopterin synthase subunit MoaE	54.1832	65.8006	1.21
Mflv_1703	Transglycosylase domain protein	19.8049	95.8682	4.84
Mflv_1704	thiamineS protein	0	37.5445	Pyrene
Mflv_1705	GTP cyclohydrolase subunit MoaA	43.3162	40.4774	0.93
Mflv_1706	protein of unknown function DUF307	351.626	76.5335	0.22
Mflv_1707	cold-shock DNA-binding protein family	236.285	36.0817	0.15
Mflv_1708	Pseudogene	21.2103	36.2468	1.71
Mflv_1709	putative glutathione S-transferase	65.3948	31.053	0.47
Mflv_1710	putative conserved exported protein	56.7703	41.5495	0.73
Mflv_1711	major facilitator superfamily MFS_1	90.5962	43.6987	0.48
Mflv_1712	hypothetical protein	450.396	146.285	0.32
Mflv_1713	cyclase/dehydrase	150.528	52.3274	0.35
Mflv_1714	hypothetical protein	97.4849	13.9033	0.14
Mflv_1715	tRNA/rRNA methyltransferase (SpoU)	19.5069	23.128	1.19
Mflv_1716	conserved hypothetical protein	0	33.9027	Pyrene
Mflv_1717	conserved hypothetical protein	96.0152	55.569	0.58
Mflv_1718	aminotransferase	115.517	51.6809	0.45
Mflv_1719	conserved hypothetical protein	52.514	61.7828	1.18
Mflv_1720	4Fe-4S ferredoxin, iron-sulfur binding domain protein	13.9673	33.2142	2.38
Mflv_1721	hypothetical protein	14.5665	37.7272	2.59
Mflv_1722	glycoside hydrolase, family 1	10.7691	28.0811	2.61
Mflv_1723	Glyoxalase/bleomycin resistance protein/dioxygenase	7.85255	28.4707	3.63
Mflv_1724	Pseudogene	0	0	-
Mflv_1725	hypothetical protein	25.2141	45.0787	1.79
Mflv_1726	citrate synthase	35.728	21.989	0.62
Mflv_1727	Pyridoxamine 5'-phosphate oxidase	36.1229	32.7788	0.91
Mflv_1728	transcriptional regulator, TetR family	27.5423	38.8075	1.41
Mflv_1729+B1803	citrate synthase	213.021	82.4629	0.39
Mflv_1730	drug resistance transporter, EmrB/QacA subfamily	124.194	59.478	0.48

Mflv_1731	transcriptional regulator, MarR family	90.5332	29.6941	0.33
Mflv_1732	conserved hypothetical protein	21.6018	54.1856	2.51
Mflv_1733	conserved hypothetical protein	59.678	21.6231	0.36
Mflv_1734	hypothetical protein	29.7838	28.9053	0.97
Mflv_1735	hypothetical protein	44.8998	78.0556	1.74
Mflv_1736	conserved hypothetical protein	11.1664	12.3513	1.11
Mflv_1737	transposase IS116/IS110/IS902 family protein	0	0	-
Mflv_1738	hypothetical protein	38.86	31.5321	0.81
Mflv_1739	conserved hypothetical protein	0	30.2551	Pyrene
Mflv_1740	peptidylprolyl isomerase, FKBP-type	139.943	37.1206	0.27
Mflv_1741	hypothetical protein	0	64.6255	Pyrene
Mflv_1742	Integrase, catalytic region	0	0	-
Mflv_1743	integral membrane sensor signal transduction	20.9583	32.9118	1.57
Mflv_1744	two component transcriptional regulator, winged helix family	100.656	32.5175	0.32
Mflv_1745	Ion transport 2 domain protein	94.4461	34.0228	0.36
Mflv_1746	ABC transporter related protein	53.4347	172.543	3.23
Mflv_1747	ABC transporter related protein	61.4682	110.118	1.79
Mflv_1748	ABC transporter related protein	39.0632	90.6892	2.32
Mflv_1749	Epoxide hydrolase domain protein	15.7774	35.7966	2.27
Mflv_1750	conserved hypothetical protein	209.527	48.6122	0.23
Mflv_1751	conserved hypothetical protein	36.9112	28.0028	0.76
Mflv_1752	ABC-2 type transporter	12.6707	41.3803	3.27
Mflv_1753	conserved hypothetical protein	8.43619	51.1544	6.06
Mflv_1754	carboxyl transferase	23.1246	34.5765	1.50
Mflv_1755	Enoyl-CoA hydratase/isomerase	110.356	49.8724	0.45
Mflv_1756	beta-lactamase domain protein	33.2214	30.3816	0.91
Mflv_1757	beta-lactamase	36.1942	40.5878	1.12
Mflv_1758	ATPase, P-type (transporting), HAD superfamily, subfamily IC	21.5198	38.7274	1.80
Mflv_1759	hypothetical protein	1318.29	142.103	0.11
Mflv_1760	conserved hypothetical protein	578.817	74.7745	0.13
Mflv_1761	NAD-dependent epimerase/dehydratase	64.2693	38.6486	0.60
Mflv_1762	C-8 sterol isomerase	15.0607	61.1438	4.06
Mflv_1763	cytochrome P450	15.1248	45.7597	3.03
Mflv_1764	cytochrome P450	6.20613	34.2637	5.52
Mflv_1765	hypothetical protein	4.6386	19.8959	4.29
Mflv_1766	dihydrodipicolinate reductase	11.7725	31.9522	2.71
Mflv_1767	dihydrodipicolinate reductase	9.92946	34.4614	3.47
Mflv_1768	cytochrome P450	12.5177	40.3746	3.23



Mflv_1769	hypothetical protein	11.501	40.7878	3.55
Mflv_1770	conserved hypothetical protein	16.6147	99.3949	5.98
Mflv_1771	hypothetical protein	0	0	-
Mflv_1772	ATPase associated with various cellular	12.2341	30.1852	2.47
Mflv_1773	von Willebrand factor, type A	10.5571	26.5321	2.51
Mflv_1774	transcriptional regulator, TetR family	20.4289	56.8165	2.78
Mflv_1775	conserved hypothetical protein	7.10701	45.454	6.40
Mflv_1776	short-chain dehydrogenase/reductase SDR	14.7569	39.9492	2.71
Mflv_1777	dihydrodipicolinate reductase	25.3169	32.9734	1.30
Mflv_1778	molybdopterin dinucleotide-binding region	21.2974	33.2586	1.56
Mflv_1779	adenylate/guanylate cyclase	0	84.2567	Pyrene
Mflv_1780	putative adenylate/guanylate cyclase	0	31.0573	Pyrene
Mflv_1781	diguanylate cyclase/phosphodiesterase	25.4189	32.732	1.29
Mflv_1782	AMP-dependent synthetase and ligase	13.4804	22.7405	1.69
Mflv_1783	short-chain dehydrogenase/reductase SDR	14.1647	26.6426	1.88
Mflv_1784	AMP-dependent synthetase and ligase	10.4012	28.2941	2.72
Mflv_1785	transcriptional regulator, GntR family	15.9114	34.0102	2.14
Mflv_1786	SMP-30/Gluconolactonase/LRE domain protein	24.5404	20.9869	0.86
Mflv_1787	short-chain dehydrogenase/reductase SDR	43.4774	14.153	0.33
Mflv_1788	Rieske (2Fe-2S) domain protein	12.5743	32.0086	2.55
Mflv_1789	Cyclohexanone monooxygenase	17.5913	40.241	2.29
Mflv_1790	short-chain dehydrogenase/reductase SDR	9.9008	16.2545	1.64
Mflv_1791	L-carnitine dehydratase/bile acid-inducible protein F	10.3028	39.2526	3.81
Mflv_1792	acyl-CoA dehydrogenase domain protein	16.055	42.343	2.64
Mflv_1793	acyl-CoA dehydrogenase domain protein	15.5837	17.1912	1.10
Mflv_1794	acyl-CoA dehydrogenase domain protein	14.851	25.413	1.71
Mflv_1795	acyl-CoA dehydrogenase domain protein	15.8299	16.4626	1.04
Mflv_1796	thiamine pyrophosphate enzyme, central region	13.3845	33.8743	2.53
Mflv_1797	aldehyde dehydrogenase	129.866	35.6175	0.27
Mflv_1798	conserved hypothetical protein	973.709	16.5933	0.02
Mflv_1799	3-oxoacyl-[acyl-carrier-protein] synthase II	154.739	207.06	1.34
Mflv_1800	Cyclopropane-fatty-acyl-phospholipid synthase	119.822	98.4319	0.82
Mflv_1801	cyclopropane-fatty-acyl-phospholipid synthase	196.451	93.8737	0.48
Mflv_1802	protein of unknown function DUF849	32.3266	72.0878	2.23
Mflv_1803	protein of unknown function DUF985	576.343	207.515	0.36
Mflv_1804	conserved hypothetical protein	656.024	1252.96	1.91
Mflv_1805	heat shock protein Hsp20	21741.4	31520.4	1.45

Mflv_1806	transcriptional regulator, HxlR family	12.0152	42.6777	3.55
Mflv_1807	Carotenoid oxygenase	15.5149	36.2943	2.34
Mflv_1808	thiolase	76.6982	35.6207	0.46
Mflv_1809	response regulator receiver and ANTAR domain protein	291.89	41.6736	0.14
Mflv_1810	hypothetical protein	27.575	60.2729	2.19
Mflv_1811	hypothetical protein	0	29.2359	Pyrene
Mflv_1812	conserved hypothetical protein	17.1693	46.6516	2.72
Mflv_1813	cytochrome c oxidase, subunit III	29.8742	30.4934	1.02
Mflv_1814	conserved hypothetical protein	0	13.8331	Pyrene
Mflv_1815	luciferase family protein	96.4847	62.8123	0.65
Mflv_1816	glutamate--cysteine ligase, GCS2	213.013	17.5603	0.08
Mflv_1817	conserved hypothetical protein	57.7565	82.9763	1.44
Mflv_1818	RNA polymerase, sigma-24 subunit, ECF subfamily	302.193	109.853	0.36
Mflv_1819	protein of unknown function DUF1365	483.878	141.487	0.29
Mflv_1820	protein of unknown function DUF867	142.635	24.9191	0.17
Mflv_1821	hypothetical protein	0	92.5137	Pyrene
Mflv_1822	Mn2+/Fe2+ transporter, NRAMP family	15.5833	41.5715	2.67
Mflv_1823	hypothetical protein	22.8786	70.4536	3.08
Mflv_1824	dihydrodipicolinate reductase	17.966	29.5488	1.64
Mflv_1825	short-chain dehydrogenase/reductase SDR	41.9733	66.2226	1.58
Mflv_1826	Ku domain protein	298.63	51.6255	0.17
Mflv_1827	PfkB domain protein	35.4637	38.3935	1.08
Mflv_1828	ATP-dependent DNA ligase LigD ligase module /	110.443	33.1246	0.30
Mflv_1829	short-chain dehydrogenase/reductase SDR	16.3032	50.1196	3.07
Mflv_1830	conserved hypothetical protein	10.746	37.9734	3.53
Mflv_1831	hypothetical protein	14.8354	49.4136	3.33
Mflv_1832	short-chain dehydrogenase/reductase SDR	11.95	43.1464	3.61
Mflv_1833	transcriptional regulator, LysR family	17.7269	38.6773	2.18
Mflv_1834	transposase, IS204/IS1001/IS1096/IS1165 family protein	0	0	-
Mflv_1835	protein of unknown function DUF222	52.2629	41.566	0.80
Mflv_1836	ribonuclease H	173.876	40.156	0.23
Mflv_1837	conserved hypothetical protein	66.889	40.4073	0.60
Mflv_1838	hypothetical protein	132.464	58.2734	0.44
Mflv_1839	hypothetical protein	369.295	158.247	0.43
Mflv_1840	major facilitator superfamily MFS_1	27.6336	28.1755	1.02
Mflv_1841	ROK family protein	20.6483	24.68	1.20
Mflv_1842	isopentenyl-diphosphate delta-isomerase	86.1729	54.7022	0.63
Mflv_1843	Rieske (2Fe-2S) domain protein	53.2627	34.4962	0.65

Mflv_1844	amine oxidase	38.396	24.7758	0.65
Mflv_1845	Methyltransferase type 11	23.9689	19.053	0.79
Mflv_1846	phytoene synthase	93.8072	34.3532	0.37
Mflv_1847	four-step phytoene desaturase	48.63	30.3343	0.62
Mflv_1848	Polyprenyl synthetase	136.059	29.4191	0.22
Mflv_1849	UDP-glucuronosyl/UDP-glucosyltransferase	26.9439	27.3459	1.01
Mflv_1850	conserved hypothetical protein	20.2322	29.4399	1.46
Mflv_1851	membrane protein of unknown function	31.3676	67.6654	2.16
Mflv_1852	DNA-formamidopyrimidine glycosylase	39.0424	25.3584	0.65
Mflv_1853	short-chain dehydrogenase/reductase SDR	141.256	30.2398	0.21
Mflv_1854	cytochrome P450	32.2351	48.2919	1.50
Mflv_1855	transcriptional regulator, XRE family	108.156	108.797	1.01
Mflv_1856	conserved hypothetical protein	29.4494	30.4389	1.03
Mflv_1857	glucose-6-phosphate isomerase	47.3252	41.2221	0.87
Mflv_1858	Succinate-semialdehyde dehydrogenase	141.422	71.6036	0.51
Mflv_1859	acyltransferase 3	34.5422	50.6547	1.47
Mflv_1860	chorismate mutase	255.812	61.6038	0.24
Mflv_1861	ATP-dependent DNA helicase PcrA	47.8311	48.4611	1.01
Mflv_1862	transposase, IS4 family	0	0	-
Mflv_1863	hypothetical protein	53.9822	15.4486	0.29
Mflv_1864	peptidase M23B	91.3022	71.8496	0.79
Mflv_1865	succinyl-CoA synthetase (ADP-forming) beta subunit	118.821	162.087	1.36
Mflv_1866	succinyl-CoA synthetase (ADP-forming) alpha subunit	187.21	155.799	0.83
Mflv_1867	transcriptional regulator, MarR family	12.9489	22.1664	1.71
Mflv_1868	conserved hypothetical protein	29.2266	37.4267	1.28
Mflv_1869	acetyl-CoA acetyltransferase	24.221	39.4729	1.63
Mflv_1870	transposase IS116/IS110/IS902 family protein	21.9519	29.0311	1.32
Mflv_1871	luciferase family protein	24.3834	34.407	1.41
Mflv_1872	hypothetical protein	175.435	91.2091	0.52
Mflv_1873	hypothetical protein	30.5475	32.544	1.07
Mflv_1874	formyltransferase	51.7517	47.5665	0.92
Mflv_1875	phosphoribosylaminoimidazolecarboxamide formyltransferase / IMP cyclohydrolase	30.4779	38.9051	1.28
Mflv_1876	hypothetical protein	25.3718	31.1108	1.23
Mflv_1877	putative magnesium chelatase	65.5888	47.932	0.73
Mflv_1878	von Willebrand factor, type A	60.9005	45.0642	0.74
Mflv_1879	protein of unknown function DUF1707	261.698	41.8651	0.16
Mflv_1880	Enoyl-CoA hydratase/isomerase	7.928	20.9698	2.65
Mflv_1881	acyl-CoA dehydrogenase domain protein	16.0569	36.4156	2.27

Mflv_1882	Pyruvate carboxylase	7.64101	22.5538	2.95
Mflv_1883	Propionyl-CoA carboxylase	10.4437	36.7544	3.52
Mflv_1884	acyl-CoA dehydrogenase domain protein	4.95103	24.4005	4.93
Mflv_1885	protein of unknown function DUF1446	7.75775	22.4226	2.89
Mflv_1886	LSU ribosomal protein L32P	0	27.4424	Pyrene
Mflv_1887	two component transcriptional regulator, winged helix family	1089.35	156.496	0.14
Mflv_1888	integral membrane sensor signal transduction histidine kinase	100.015	62.7302	0.63
Mflv_1889	peptidase S1 and S6, chymotrypsin/Hap	1234.6	246.763	0.20
Mflv_1890	molybdenum cofactor synthesis domain	792.977	140.474	0.18
Mflv_1891	conserved hypothetical protein	1101.07	317.618	0.29
Mflv_1892	large conductance mechanosensitive channel protein	61.4922	80.0065	1.30
Mflv_1893	hypothetical protein	1088.72	235.119	0.22
Mflv_1894	SAF domain	84.3839	78.4302	0.93
Mflv_1895	putative regulatory protein, FmdB family	10040.8	542.407	0.05
Mflv_1896	5-formyltetrahydrofolate cyclo-ligase	16.8674	31.0158	1.84
Mflv_1897	UDP-glucose pyrophosphorylase	222.893	86.8691	0.39
Mflv_1898	molybdenum cofactor synthesis domain	71.4875	45.5919	0.64
Mflv_1899	GCN5-related N-acetyltransferase	34.6839	42.4118	1.22
Mflv_1900	conserved hypothetical protein	595.602	78.0413	0.13
Mflv_1901	transcriptional regulator, ArsR family	126.796	89.324	0.70
Mflv_1902	cation diffusion facilitator family transporter	50.3381	62.5856	1.24
Mflv_1903	transcriptional regulator, TetR family	93.0031	56.1181	0.60
Mflv_1904	short-chain dehydrogenase/reductase SDR	30.7385	70.7078	2.30
Mflv_1905	short-chain dehydrogenase/reductase SDR	23.1896	48.6217	2.10
Mflv_1906	Carboxymuconolactone decarboxylase	13.6215	36.781	2.70
Mflv_1907	aldehyde dehydrogenase	9.1591	30.7156	3.35
Mflv_1908	cytochrome P450	33.0628	31.4282	0.95
Mflv_1909	conserved hypothetical protein	573.11	47.113	0.08
Mflv_1910	transcriptional regulator, MarR family	2085.2	53.4561	0.03
Mflv_1911	6-phosphogluconate dehydrogenase, NAD-binding protein	22.3069	43.97	1.97
Mflv_1912	4-carboxymuconolactone decarboxylase	32.1798	40.2214	1.25
Mflv_1913	conserved hypothetical protein	22.7794	45.4395	1.99
Mflv_1914	diguanylate cyclase	13.9369	32.5024	2.33
Mflv_1915	cyclic nucleotide-binding protein	53.1526	42.5153	0.80
Mflv_1916	shikimate dehydrogenase	32.0883	21.2406	0.66
Mflv_1917	hypothetical protein	71.6487	34.9766	0.49
Mflv_1918	PE-PPE, C-terminal domain protein	12.4057	37.5403	3.03
Mflv_1919	conserved hypothetical protein	0.509585	9.14075	17.94

Mflv_1920	conserved hypothetical protein	114.435	33.4522	0.29
Mflv_1921	conserved hypothetical protein	39.6801	31.2	0.79
Mflv_1922	family	45.7542	16.1749	0.35
Mflv_1923	arginine deiminase	35.516	32.192	0.91
Mflv_1924	glycosyl transferase, family 39	33.4908	36.5564	1.09
Mflv_1925	Uroporphyrin-III C/tetrapyrrole (Corrin/Porphyrin) methyltransferase	34.5523	24.9853	0.72
Mflv_1926	para-aminobenzoate synthase, subunit I	23.7553	26.2468	1.10
Mflv_1927	RNA polymerase, sigma-24 subunit, ECF subfamily	18.037	38.0547	2.11
Mflv_1928	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	25.638	32.6469	1.27
Mflv_1929	glutamate dehydrogenase (NADP)	35.8081	55.9472	1.56
Mflv_1930	methionyl-tRNA synthetase	50.9792	45.2212	0.89
Mflv_1931	hydrolase, TatD family	14.7662	27.9326	1.89
Mflv_1932	Transglycosylase domain protein	73.2286	112.971	1.54
Mflv_1933	dimethyladenosine transferase	371.612	161.734	0.44
Mflv_1934	4-diphosphocytidyl-2C-methyl-D-erythritol kinase	33.5337	48.8469	1.46
Mflv_1935	AMP-dependent synthetase and ligase	326.609	63.8052	0.20
Mflv_1936	daunorubicin resistance ABC transporter ATPase subunit	102.195	42.4207	0.42
Mflv_1937	ABC-2 type transporter	60.3314	65.3886	1.08
Mflv_1938	peptidyl-tRNA hydrolase	70.5465	69.2776	0.98
Mflv_1939	LSU ribosomal protein L25P	146.859	106.173	0.72
Mflv_1940	short-chain dehydrogenase/reductase SDR	127.729	37.0594	0.29
Mflv_1941	lipoprotein, putative	34.3592	78.8539	2.29
Mflv_1942	arsenate reductase	48.3747	35.4443	0.73
Mflv_1943	ribose-phosphate pyrophosphokinase	41.8164	38.8631	0.93
Mflv_1944	UDP-N-acetylglucosamine pyrophosphorylase / glucosamine-1-phosphate N-acetyltransferase	41.7966	61.3498	1.47
Mflv_1945	GreA/GreB family elongation factor	762.422	111.846	0.15
Mflv_1946	putative DNA-binding protein	21.2865	28.7393	1.35
Mflv_1947	transcriptional regulator, TetR family	52.5506	26.667	0.51
Mflv_1948	transcription-repair coupling factor	44.8984	44.942	1.00
Mflv_1949	MazG nucleotide pyrophosphohydrolase	111.998	50.8665	0.45
Mflv_1950	Dyp-type peroxidase family	39.6163	46.7149	1.18
Mflv_1951	protein of unknown function DUF451	18.6439	63.1018	3.38
Mflv_1952	iron permease FTR1	69.2707	73.9286	1.07
Mflv_1953	putative conserved lipoprotein LpqU	193.744	26.1054	0.13
Mflv_1954	enolase	96.0773	49.5495	0.52
Mflv_1955	Septum formation initiator	58.5807	52.0018	0.89

Mflv_1956	protein of unknown function DUF501	33.1204	24.2747	0.73
Mflv_1957	Ppx/GppA phosphatase	314.339	110.155	0.35
Mflv_1958	conserved hypothetical protein	972.103	148.939	0.15
Mflv_1959	propionyl-CoA synthetase	83.6535	39.5116	0.47
Mflv_1960	alpha/beta hydrolase fold protein	947.188	221.143	0.23
Mflv_1961	hypothetical protein	7099.79	690.659	0.10
Mflv_1962	conserved hypothetical protein	843.507	44.7205	0.05
Mflv_1963	short-chain dehydrogenase/reductase SDR	483.015	40.3382	0.08
Mflv_1964	bifunctional deaminase-reductase domain protein	809.217	26.6711	0.03
Mflv_1965	flavin reductase domain protein, FMN-binding protein	1496.98	113.325	0.08
Mflv_1966	Alcohol dehydrogenase GroES domain protein	297.751	54.7377	0.18
Mflv_1967	conserved hypothetical protein	655.387	82.4688	0.13
Mflv_1968	conserved hypothetical protein	34621.3	558.827	0.02
Mflv_1969	conserved hypothetical protein	4374.85	53.8697	0.01
Mflv_1970	conserved hypothetical protein	5426.65	159.053	0.03
Mflv_1971	amidohydrolase	794.125	68.1187	0.09
Mflv_1972	hypothetical protein	32.3688	37.5897	1.16
Mflv_1973	hypothetical protein	95.3609	50.3923	0.53
Mflv_1974	Pseudogene	56.7158	53.8555	0.95
Mflv_1975	Pseudogene	25.963	103.731	4.00
Mflv_1976	hypothetical protein	42.1374	80.5878	1.91
Mflv_1977	hypothetical protein	23.8027	124.104	5.21
Mflv_1978	hypothetical protein	29.5702	88.4187	2.99
Mflv_1979	hypothetical protein	33.0039	52.6549	1.60
Mflv_1980	hypothetical protein	15.5305	40.4523	2.60
Mflv_1981	hypothetical protein	14.3174	30.8868	2.16
Mflv_1982	hypothetical protein	14.4692	50.847	3.51
Mflv_1983	Resolvase, N-terminal domain	15.5303	42.3284	2.73
Mflv_1984	hypothetical protein	0	13.1686	Pyrene
Mflv_1985	phage integrase family protein	21.7828	40.4532	1.86
Mflv_1986	hypothetical protein	228.453	146.249	0.64
Mflv_1987	hypothetical protein	77.7482	39.3351	0.51
Mflv_1988	protein of unknown function DUF222	68.8339	53.6991	0.78
Mflv_1989	superoxide dismutase, copper/zinc binding protein	56.1344	35.1206	0.63
Mflv_1990	conserved hypothetical protein	82.9857	37.5649	0.45
Mflv_1991	conserved hypothetical protein	231.855	41.9269	0.18
Mflv_1992	hypothetical protein	20.4227	40.0379	1.96
Mflv_1993	AMP-dependent synthetase and ligase	18.506	19.2413	1.04

Mflv_1994	hypothetical protein	16.701	23.8525	1.43
Mflv_1995	conserved hypothetical protein	9.06214	35.7219	3.94
Mflv_1996	formate/nitrite transporter	31.3852	44.4871	1.42
Mflv_1997	cyanate lyase	12.2327	23.9722	1.96
Mflv_1998	gamma-aminobutyrate:proton symporter, AAT family	27.3482	50.705	1.85
Mflv_1999	UspA domain protein	21.9619	43.3161	1.97
Mflv_2000	secretory lipase	19.7215	37.6867	1.91
Mflv_2001	short-chain dehydrogenase/reductase SDR	18.2924	20.2996	1.11
Mflv_2002	conserved hypothetical protein	8.41447	14.9141	1.77
Mflv_2003	glutamine amidotransferase, class-II	50.0989	40.3392	0.81
Mflv_2004	Diacylglycerol O-acyltransferase	311.829	39.351	0.13
Mflv_2005	hypothetical protein	150.049	48.4236	0.32
Mflv_2006	hypothetical protein	67.5074	90.0913	1.33
Mflv_2007	putative conserved transmembrane protein	35.4626	46.6715	1.32
Mflv_2008	conserved hypothetical protein	307.943	149.976	0.49
Mflv_2009	Cl- channel, voltage-gated family protein	23.806	32.8584	1.38
Mflv_2010	hypothetical protein	36.312	28.8058	0.79
Mflv_2011	conserved hypothetical protein	13.4754	14.9951	1.11
Mflv_2012	protein of unknown function DUF732	70.6567	18.1477	0.26
Mflv_2013	hypothetical protein	31.1437	22.1821	0.71
Mflv_2014	hypothetical protein	1.13839	42.5164	37.35
Mflv_2015	Acetamidase/Formamidase	17.3279	41.1117	2.37
Mflv_2016	protein of unknown function UPF0016	42.6182	48.4746	1.14
Mflv_2017	conserved hypothetical protein	323.262	54.383	0.17
Mflv_2018	major facilitator superfamily MFS_1	24.5077	39.2221	1.60
Mflv_2019	conserved hypothetical protein	0	15.8277	Pyrene
Mflv_2020	protein of unknown function DUF732	30.004	11.5578	0.39
Mflv_2021	anti-sigma-factor antagonist	47.1516	47.4007	1.01
Mflv_2022	CsbD family protein	15624.8	1177.54	0.08
Mflv_2023	anti-sigma-factor antagonist	2626.7	153.849	0.06
Mflv_2024	conserved hypothetical protein	245.575	53.3627	0.22
Mflv_2025	Thiolase	29.2141	57.3692	1.96
Mflv_2026	protein kinase	17.7772	23.2135	1.31
Mflv_2027	dihydrodipicolinate reductase	18.4244	27.1427	1.47
Mflv_2028	conserved hypothetical protein	130.87	41.7914	0.32
Mflv_2029	Patatin	32.7007	37.2871	1.14
Mflv_2030	Patatin	46.6992	40.5889	0.87
Mflv_2031	transcriptional regulator, ArsR family	282.59	49.4378	0.17
Mflv_2032	hypothetical protein	15.752	22.3521	1.42
Mflv_2033	cysteine dioxygenase type I	108.904	32.706	0.30

Mflv_2034	Rhodanese domain protein	39.1536	22.9962	0.59
Mflv_2035	conserved hypothetical protein	86.7528	42.477	0.49
Mflv_2036	short chain enoyl-CoA hydratase	82.2007	35.0836	0.43
Mflv_2037	Enoyl-CoA hydratase/isomerase	42.6019	31.9136	0.75
Mflv_2038	protein of unknown function DUF1112	2010.07	296.406	0.15
Mflv_2039	phosphoribosylglycinamide formyltransferase	52.8488	47.0164	0.89
Mflv_2040	acetyl-CoA acetyltransferase	124.728	42.9454	0.34
Mflv_2041	lipolytic enzyme, G-D-S-L family	73.9077	59.828	0.81
Mflv_2042	Alpha/beta hydrolase fold-3 domain protein	880.461	423.829	0.48
Mflv_2043	cystathionine beta-synthase	111.394	106.119	0.95
Mflv_2044	integral membrane protein-like protein	65.4633	60.2441	0.92
Mflv_2045	RDD domain containing protein	14.8352	42.1415	2.84
Mflv_2046	cystathionine gamma-lyase	62.2391	43.7755	0.70
Mflv_2047	conserved hypothetical protein	30.6106	22.2978	0.73
Mflv_2048	transcription elongation factor GreA	698.44	184.047	0.26
Mflv_2049	putative conserved membrane protein	51.0583	37.646	0.74
Mflv_2050	LmbE family protein	101.637	113.002	1.11
Mflv_2051	hypothetical protein	102.847	144.841	1.41
Mflv_2052	protein of unknown function DUF255	11.2876	29.642	2.63
Mflv_2053	nuclear transport factor 2	1276.25	89.6907	0.07
Mflv_2054	channel protein, hemolysin III family	121.771	57.2472	0.47
Mflv_2055	Undecaprenyl pyrophosphate synthetase	117.897	46.5373	0.39
Mflv_2056	conserved hypothetical protein	9.70974	32.5169	3.35
Mflv_2057	conserved hypothetical protein	26.221	15.3897	0.59
Mflv_2058	pantothenate kinase	70.8713	48.0061	0.68
Mflv_2059	conserved hypothetical protein	41.8711	29.8144	0.71
Mflv_2060	serine hydroxymethyltransferase	117.895	37.3	0.32
Mflv_2061	fatty acid desaturase, type 2	1384.52	64.0545	0.05
Mflv_2062	PhoH family protein	197.389	114.5	0.58
Mflv_2063	polysaccharide deacetylase	52.0452	34.947	0.67
Mflv_2064	hypothetical protein	126.809	46.5903	0.37
Mflv_2065	fumarase	90.0413	40.0061	0.44
Mflv_2066	fructose-1,6-bisphosphatase, class II	87.728	44.2127	0.50
Mflv_2067	conserved hypothetical protein	190.374	37.3536	0.20
Mflv_2068	dienelactone hydrolase	759.989	238.313	0.31
Mflv_2069	protein of unknown function UPF0118	62.8673	54.4673	0.87
Mflv_2070	short-chain dehydrogenase/reductase SDR	12.4252	23.338	1.88
Mflv_2071	short-chain dehydrogenase/reductase SDR	12.1888	47.5777	3.90
Mflv_2072	conserved hypothetical protein	73.1094	45.0275	0.62
Mflv_2073	diguanylate cyclase/phosphodiesterase	100.694	44.137	0.44



Mflv_2074	hypothetical protein	29.555	39.698	1.34
Mflv_2075	3-beta hydroxysteroid dehydrogenase/isomerase	20.634	35.356	1.71
Mflv_2076	Exodeoxyribonuclease VII small subunit	0	66.5917	Pyrene
Mflv_2077	Exodeoxyribonuclease VII large subunit	35.7355	30.5411	0.85
Mflv_2078	conserved hypothetical protein	133.476	63.9424	0.48
Mflv_2079	4-hydroxy-3-methylbut-2-enyl diphosphate reductase	499.397	129.058	0.26
Mflv_2080	penicillin-binding protein, transpeptidase	13.9291	30.6605	2.20
Mflv_2081	hypothetical protein	60.2599	43.1275	0.72
Mflv_2082	GTP-binding protein YchF	34.1218	45.7255	1.34
Mflv_2083	GCN5-related N-acetyltransferase	31.5866	38.8789	1.23
Mflv_2084	conserved hypothetical protein	25.072	64.2532	2.56
Mflv_2085	conserved hypothetical protein	79.3571	51.768	0.65
Mflv_2086	hypothetical protein	19.4811	44.7235	2.30
Mflv_2087	hypothetical protein	175.114	131.239	0.75
Mflv_2088	hypothetical protein	22.2442	44.5796	2.00
Mflv_2089	conserved hypothetical protein	35.0754	46.3959	1.32
Mflv_2090	conserved hypothetical protein	0	0	-
Mflv_2091	putative adenylate/guanylate cyclase	47.4922	37.43	0.79
Mflv_2092	conserved hypothetical protein	15.9104	37.35	2.35
Mflv_2093	transposase, IS4 family	0	0	-
Mflv_2094	Limonene-1,2-epoxide hydrolase	21.9207	28.107	1.28
Mflv_2095	aminotransferase	19.661	34.321	1.75
Mflv_2096	alpha/beta hydrolase fold protein	32.2426	33.9837	1.05
Mflv_2097	transcriptional regulator, TetR family	36.0656	31.5766	0.88
Mflv_2098	methyltransferase	14.8556	13.1408	0.88
Mflv_2099	protein of unknown function DUF140	31.4153	52.2496	1.66
Mflv_2100	protein of unknown function DUF140	32.2508	40.0319	1.24
Mflv_2101	virulence factor Mce family protein	36.9085	45.0389	1.22
Mflv_2102	virulence factor Mce family protein	26.7224	54.4797	2.04
Mflv_2103	virulence factor Mce family protein	43.1979	55.2361	1.28
Mflv_2104	virulence factor Mce family protein	47.3159	49.2044	1.04
Mflv_2105	virulence factor Mce family protein	49.3311	48.7859	0.99
Mflv_2106	virulence factor Mce family protein	73.8797	59.8414	0.81
Mflv_2107	hypothetical protein	89.7235	70.7652	0.79
Mflv_2108	hypothetical protein	67.3814	46.5858	0.69
Mflv_2109	protein of unknown function UPF0089	10.1178	22.954	2.27
Mflv_2110	transcriptional regulator, TetR family	79.2588	39.6488	0.50
Mflv_2111	Carotenoid oxygenase	40.6158	33.6581	0.83
Mflv_2112	DoxX family protein	136.281	56.3134	0.41

Mflv_2113	conserved hypothetical protein	22.572	37.6413	1.67
Mflv_2114	transcriptional regulator, GntR family	205.648	25.9295	0.13
Mflv_2115	4-hydroxybutyrate CoA-transferase	11.741	32.7349	2.79
Mflv_2116	acetyl-CoA acetyltransferase	52.8502	21.593	0.41
Mflv_2117	short chain enoyl-CoA hydratase	32.9256	19.1994	0.58
Mflv_2118	acyl-CoA dehydrogenase domain protein	67.6981	42.0005	0.62
Mflv_2119	beta-Ig-H3/fasciclin	54.7715	43.1697	0.79
Mflv_2120	short-chain dehydrogenase/reductase SDR	62.0808	40.4049	0.65
Mflv_2121	carbonic anhydrases/acetyltransferases isoleucine patch superfamily-like protein	238.754	63.9972	0.27
Mflv_2122	NAD-dependent epimerase/dehydratase	873.239	58.7429	0.07
Mflv_2123	Abortive infection protein	401.251	204.195	0.51
Mflv_2124	Alcohol dehydrogenase, zinc-binding domain protein	164.74	757.507	4.60
Mflv_2125	Enoyl-CoA hydratase	13.9916	14.7515	1.05
Mflv_2126	L-carnitine dehydratase/bile acid-inducible protein F	29.2233	29.9036	1.02
Mflv_2127	short-chain dehydrogenase/reductase SDR	20.7439	26.5951	1.28
Mflv_2128	2-nitropropane dioxygenase precursor	46.1952	50.0374	1.08
Mflv_2129	conserved hypothetical protein	12690.4	1124.63	0.09
Mflv_2130	DoxX family protein	69.6136	33.9794	0.49
Mflv_2131	MMPL domain protein	14.4424	25.8938	1.79
Mflv_2132	transcriptional regulator, TetR family	9.70543	33.1376	3.41
Mflv_2133	Methyltransferase type 12	25.8186	57.0585	2.21
Mflv_2134	Silent information regulator protein Sir2	79.9394	31.1289	0.39
Mflv_2135	transcriptional regulator, GntR family	575.381	29.9517	0.05
Mflv_2136	O-methyltransferase domain protein	71.2438	41.6183	0.58
Mflv_2137	pyridoxamine 5'-phosphate oxidase- related,FMN-binding protein	104.049	30.4062	0.29
Mflv_2138	conserved hypothetical protein	0	2.77174	Pyrene
Mflv_2139	SSS sodium solute transporter superfamily	208.01	97.9045	0.47
Mflv_2140	protein of unknown function DUF485	1389.52	137.296	0.10
Mflv_2141	Na <sup>+</sup> /solute symporter	10.9966	29.5484	2.69
Mflv_2142	conserved hypothetical protein	7.13681	41.8621	5.87
Mflv_2143	response regulator receiver protein	6.39679	22.1719	3.47
Mflv_2144	signal transduction histidine kinase, LytS	14.1928	34.024	2.40
Mflv_2145	hypothetical protein	12.1739	25.4177	2.09
Mflv_2146	pyridoxamine 5'-phosphate oxidase- related,FMN-binding protein	72.6903	29.9018	0.41
Mflv_2147	HhH-GPD family protein	484.327	105.331	0.22
Mflv_2148	Resolvase, N-terminal domain	24.5408	23.9913	0.98
Mflv_2149	nitroreductase	16.3131	24.4265	1.50

Mflv_2150	conserved hypothetical protein	1818.38	182.153	0.10
Mflv_2151	conserved hypothetical protein	44.8823	59.4852	1.33
Mflv_2152	conserved hypothetical protein	9.84311	27.5366	2.80
Mflv_2153	conserved hypothetical protein	18.7544	45.8232	2.44
Mflv_2154	NUDIX hydrolase	10.8413	21.6111	1.99
Mflv_2155	major facilitator superfamily MFS_1	22.7896	46.9443	2.06
Mflv_2156	respiratory nitrate reductase alpha subunit	50.9678	43.1624	0.85
Mflv_2157	respiratory nitrate reductase beta subunit	59.0633	45.8237	0.78
Mflv_2158	respiratory nitrate reductase chaperone NarJ	34.9816	27.7655	0.79
Mflv_2159	subunit	95.2952	68.595	0.72
Mflv_2160	protein of unknown function DUF1130	105.462	206.396	1.96
Mflv_2161	hypothetical protein	230.414	522.783	2.27
Mflv_2162	hypothetical protein	0	47.1459	Pyrene
Mflv_2163	GTP-binding protein TypA	50.1235	60.9384	1.22
Mflv_2164	extracellular solute-binding protein, family 5	22.5947	23.644	1.05
Mflv_2165	LmbE family protein	6.0937	20.588	3.38
Mflv_2166	hypothetical protein	114.693	46.3557	0.40
Mflv_2167	FO synthase subunit 1	36.5441	61.4209	1.68
Mflv_2168	fumarylacetoacetate (FAA) hydrolase	21.0215	127.243	6.05
Mflv_2169	YceI family protein	18.3128	344.434	18.81
Mflv_2170	4Fe-4S ferredoxin, iron-sulfur binding domain protein	751.424	113.54	0.15
Mflv_2171	succinyldiaminopimelate aminotransferase apoenzyme	32.4027	30.6389	0.95
Mflv_2172	L-proline dehydrogenase	16.8539	27.979	1.66
Mflv_2173	hypothetical protein	107.279	44.6739	0.42
Mflv_2174	NUDIX hydrolase	165.349	49.1223	0.30
Mflv_2175	AMP-dependent synthetase and ligase	19.7432	30.4353	1.54
Mflv_2176	conserved hypothetical protein	48.8545	130.5	2.67
Mflv_2177	peptidase M15B and M15C, D,D-carboxypeptidase VanY/endolysin	8.0522	16.1168	2.00
Mflv_2178	hypothetical protein	0.636722	13.7276	21.56
Mflv_2179	putative transferase	95.8229	56.9751	0.59
Mflv_2180	succinyldiaminopimelate desuccinylase	53.0543	26.7321	0.50
Mflv_2181	ABC transporter related protein	25.0114	33.0356	1.32
Mflv_2182	hypothetical protein	50.7489	23.9844	0.47
Mflv_2183	Tetratricopeptide TPR_4	16.5622	27.6543	1.67
Mflv_2184	conserved hypothetical protein 730	281.534	24.8678	0.09
Mflv_2185	AMP-dependent synthetase and ligase	169.306	72.5206	0.43
Mflv_2186	Dihydropteroate synthase	160.553	68.3104	0.43
Mflv_2187	glycosyl transferase, family 2	163.904	51.9083	0.32

Mflv_2188	conserved hypothetical protein	464.156	47.3412	0.10
Mflv_2189	DNA-3-methyladenine glycosylase I	56.4121	42.8537	0.76
Mflv_2190	conserved hypothetical protein	1212.79	207.328	0.17
Mflv_2191	glycogen synthase (ADP-glucose)	109.044	76.5171	0.70
Mflv_2192	transposase, IS4 family	0.962425	14.4873	15.05
Mflv_2193	glucose-1-phosphate adenylyltransferase	352.881	70.923	0.20
Mflv_2194	conserved hypothetical protein	231.036	61.2948	0.27
Mflv_2195	hypothetical protein	77.0962	40.3115	0.52
Mflv_2196	putative ABC transporter membrane-spanning protein	16.0897	59.5296	3.70
Mflv_2197	ABC transporter related protein	20.2159	43.6065	2.16
Mflv_2198	transcriptional regulator, TetR family	630.709	69.8152	0.11
Mflv_2199	O-methyltransferase, family 3	190.634	49.7785	0.26
Mflv_2200	RNA polymerase, sigma 29 subunit, SigE	4427.66	356.217	0.08
Mflv_2201	conserved hypothetical protein	454.664	102.823	0.23
Mflv_2202	peptidase S1 and S6, chymotrypsin/Hap	276.444	146.42	0.53
Mflv_2203	twin-arginine translocation protein, TatB subunit	25.8662	64.439	2.49
Mflv_2204	transposase, IS4 family	0	0	-
Mflv_2205	protein of unknown function DUF59	985.844	186.2	0.19
Mflv_2206	lytic transglycosylase, catalytic	31.1188	26.366	0.85
Mflv_2207	protein of unknown function DUF1003	29.259	30.9317	1.06
Mflv_2208	MgtE intracellular region	31.5277	36.2479	1.15
Mflv_2209	Citryl-CoA lyase	86.1531	63.0673	0.73
Mflv_2210	conserved hypothetical protein	37.8341	28.7618	0.76
Mflv_2211	conserved hypothetical protein	311.999	137.851	0.44
Mflv_2212	conserved hypothetical protein	151.675	76.6827	0.51
Mflv_2213	magnesium and cobalt transport protein CorA	60.0031	45.1704	0.75
Mflv_2214	Malate dehydrogenase (oxaloacetate-decarboxylating)	60.4558	45.9787	0.76
Mflv_2215	Substrate-binding region of ABC-type glycine betaine transport system	20.712	46.4723	2.24
Mflv_2216	short-chain dehydrogenase/reductase SDR	174.176	125.243	0.72
Mflv_2217	protein of unknown function DUF732	4163.57	47.3774	0.01
Mflv_2218	2-oxoglutarate dehydrogenase E1 component	99.7916	73.9255	0.74
Mflv_2219	conserved hypothetical protein	364.088	61.2636	0.17
Mflv_2220	drug resistance transporter, Bcr/CflA subfamily	42.3894	41.5253	0.98
Mflv_2221	drug resistance transporter, EmrB/QacA subfamily	17.1428	43.4848	2.54
Mflv_2222	conserved hypothetical protein	33.6953	30.0515	0.89

Mflv_2223	nuclease (RecB family)-like protein	28.1257	34.7223	1.23
Mflv_2224	Putative lipoprotein	9.14091	23.0497	2.52
Mflv_2225	ATP-dependent RNA helicase CsdA	172.978	75.2514	0.44
Mflv_2226	acyltransferase 3	32.8464	43.2339	1.32
Mflv_2227	FAD-binding 9, siderophore-interacting domain protein	41.184	52.3084	1.27
Mflv_2228	transcriptional regulator, TetR family	29.1171	47.8416	1.64
Mflv_2229	cytochrome P450	22.8374	33.2001	1.45
Mflv_2230	FAD linked oxidase domain protein	50.451	47.1001	0.93
Mflv_2231	hypothetical protein	170.525	63.0082	0.37
Mflv_2232	conserved hypothetical protein	270.961	82.0523	0.30
Mflv_2233	transcriptional regulator, HxlR family	863.292	117.226	0.14
Mflv_2234	H+ Antiporter protein	25.8538	63.3229	2.45
Mflv_2235	putative conserved lipoprotein LppH	77.1356	48.3639	0.63
Mflv_2236	Uracil-DNA glycosylase superfamily	24.6913	24.1279	0.98
Mflv_2237	luciferase family protein	336.123	66.3806	0.20
Mflv_2238	conserved hypothetical protein	234.363	96.2192	0.41
Mflv_2239	histidine triad (HIT) protein	26.7723	29.449	1.10
Mflv_2240	Glyoxalase/bleomycin resistance protein/dioxygenase	12.1712	25.9802	2.13
Mflv_2241	transcriptional regulator, AraC family	37.5706	66.5125	1.77
Mflv_2242	conserved hypothetical protein	35.5661	40.2381	1.13
Mflv_2243	putative adenylate/guanylate cyclase	28.8033	31.7003	1.10
Mflv_2244	heavy metal translocating P-type ATPase	27.0835	30.7901	1.14
Mflv_2245	protein of unknown function DUF305	59.5982	45.2846	0.76
Mflv_2246	D-tyrosyl-tRNA(Tyr) deacylase	28.7045	18.3703	0.64
Mflv_2247	protein of unknown function DUF124	50.7961	42.0426	0.83
Mflv_2248	conserved hypothetical protein	277.748	40.5208	0.15
Mflv_2249	Formate dehydrogenase	10.4097	31.4732	3.02
Mflv_2250	ABC transporter, transmembrane region	35.6772	35.6388	1.00
Mflv_2251	ABC transporter related protein	18.8665	37.156	1.97
Mflv_2252	putative lipoprotein LprB	261.868	58.7277	0.22
Mflv_2253	putative lipoprotein LprC	139.101	46.0216	0.33
Mflv_2254	SixA	121.467	51.8005	0.43
Mflv_2255	metallophosphoesterase	47.2407	30.5799	0.65
Mflv_2256	conserved hypothetical protein	43.8813	39.4702	0.90
Mflv_2257	alpha/beta hydrolase fold protein	49.0736	34.6692	0.71
Mflv_2258	extracellular solute-binding protein, family 5	25.4517	32.1116	1.26
Mflv_2259	oligopeptide/dipeptide ABC transporter, ATPase	12.3339	30.3221	2.46
Mflv_2260	systems	16.8312	35.7207	2.12
Mflv_2261	systems	30.4843	48.9068	1.60

Mflv_2262	hypothetical protein	4.09427	26.2368	6.41
Mflv_2263	transposase, IS4 family	0	0	-
Mflv_2264	hypothetical protein	45.4459	34.7239	0.76
Mflv_2265	transposase, IS4 family	0	0	-
Mflv_2266	two component transcriptional regulator, winged helix family	508.762	42.2401	0.08
Mflv_2267	integral membrane sensor signal transduction histidine kinase	14.3982	22.7593	1.58
Mflv_2268	glycosyl transferase, family 2	12.8821	30.4472	2.36
Mflv_2269	glycosyl transferase, family 39	5.42854	30.5842	5.63
Mflv_2270	carbonic anhydrase	159.075	27.9875	0.18
Mflv_2271	sulfate adenylyltransferase subunit 2	722.728	46.8738	0.06
Mflv_2272	adenylylsulfate kinase	64.4035	83.665	1.30
Mflv_2273	inositol monophosphatase	11.8862	40.8059	3.43
Mflv_2274	hypothetical protein	30.045	37.6926	1.25
Mflv_2275	isochorismatase hydrolase	74.5827	62.2241	0.83
Mflv_2276	transcriptional regulator, BadM/Rrf2 family	30.4041	30.8577	1.01
Mflv_2277	nitroalkane oxidase	11.6092	29.0679	2.50
Mflv_2278	amine oxidase	13.1387	44.169	3.36
Mflv_2279	conserved hypothetical protein	20.9507	47.1865	2.25
Mflv_2280	two component transcriptional regulator, LuxR family	11.4298	30.4794	2.67
Mflv_2281	integral membrane sensor signal transduction histidine kinase	15.6407	47.9165	3.06
Mflv_2282	C4-dicarboxylate transporter/malic acid transport protein	16.7902	42.3954	2.53
Mflv_2283	luciferase family protein	37.9334	45.5089	1.20
Mflv_2284	protein of unknown function DUF899, thioredoxin family protein	87.2466	87.5978	1.00
Mflv_2285	hypothetical protein	82.6397	44.4971	0.54
Mflv_2286	acyl-CoA dehydrogenase domain protein	101.224	53.2091	0.53
Mflv_2287	acyl-CoA dehydrogenase domain protein	87.0557	61.9339	0.71
Mflv_2288	short-chain dehydrogenase/reductase SDR	62.4647	40.0486	0.64
Mflv_2289	protein of unknown function DUF1460	172.664	33.6633	0.19
Mflv_2290	Lytic transglycosylase, catalytic	22.0751	36.913	1.67
Mflv_2291	conserved hypothetical protein	90.7002	41.9089	0.46
Mflv_2292	conserved hypothetical protein	39.8045	26.9397	0.68
Mflv_2293	conserved hypothetical protein	14.6426	31.4616	2.15
Mflv_2294	hypothetical protein	84.1082	202.021	2.40
Mflv_2295	hypothetical protein	429.331	72.5347	0.17
Mflv_2296	arginyl-tRNA synthetase	25.9098	34.6136	1.34
Mflv_2297	diaminopimelate decarboxylase	24.6365	40.0506	1.63
Mflv_2298	homoserine dehydrogenase	51.1348	56.6349	1.11

Mflv_2299	threonine synthase	50.8282	56.8796	1.12
Mflv_2300	homoserine kinase	57.4878	77.7098	1.35
Mflv_2301	transcription termination factor Rho	73.695	131.297	1.78
Mflv_2302	transcriptional regulator, MarR family	65.0168	58.6029	0.90
Mflv_2303	conserved hypothetical protein	75.922	51.5217	0.68
Mflv_2304	transcriptional regulator, TetR family	45.7873	42.4022	0.93
Mflv_2305	AMP-dependent synthetase and ligase	23.1532	46.4286	2.01
Mflv_2306	LSU ribosomal protein L31P	3477.47	2041.64	0.59
Mflv_2307	bacterial peptide chain release factor 1(bRF-1)	144.733	178.787	1.24
Mflv_2308	modification methylase, HemK family	22.915	53.0151	2.31
Mflv_2309	translation factor SUA5	69.3233	50.8399	0.73
Mflv_2310	glycosyl transferase, family 4	37.6857	59.3524	1.57
Mflv_2311	conserved hypothetical protein	1779.85	156.754	0.09
Mflv_2312	ATP synthase F0 subcomplex A subunit	1531.29	180.1	0.12
Mflv_2313	ATP synthase F0 subcomplex C subunit	1052.06	401.392	0.38
Mflv_2314	H <sup>+</sup> -transporting two-sector ATPase, B/B' subunit	848.514	653.366	0.77
Mflv_2315	ATP synthase F1 subcomplex delta subunit	321.674	255.647	0.79
Mflv_2316	ATP synthase F1 subcomplex alpha subunit	277.102	274.291	0.99
Mflv_2317	ATP synthase F1 subcomplex gamma subunit	498.613	292.121	0.59
Mflv_2318	ATP synthase F1, beta subunit	269.094	236.933	0.88
Mflv_2319	ATP synthase F1, epsilon subunit	1396.33	508.405	0.36
Mflv_2320	hypothetical protein	315.921	361.826	1.15
Mflv_2321	ATP:cob(I)alamin adenosyltransferase	234.242	86.4338	0.37
Mflv_2322	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	172.705	76.1027	0.44
Mflv_2323	transposase, IS4 family	0	0	-
Mflv_2324	transposase, IS4 family	0	0	-
Mflv_2325	methylated-DNA--protein-cysteine methyltransferase	45.1352	43.6749	0.97
Mflv_2326	DNA-O6-methylguanine--protein-cysteine S-methyltransferase / DNA-3-methyladenine glycosylase II	29.2721	21.5929	0.74
Mflv_2327	transcriptional regulator, TetR family	224.002	33.8857	0.15
Mflv_2328	Rieske (2Fe-2S) domain protein	22.1786	46.9132	2.12
Mflv_2329	conserved hypothetical protein	16.1359	30.524	1.89
Mflv_2330	Carboxymuconolactone decarboxylase	11.555	56.2327	4.87
Mflv_2331	Glutaminase	20.8784	26.0512	1.25
Mflv_2332	transcriptional regulator, LysR family	24.7648	39.8822	1.61
Mflv_2333	L-carnitine dehydratase/bile acid-inducible protein F	12.9403	26.2673	2.03

Mflv_2334	acyl-CoA dehydrogenase domain protein	13.8012	15.0471	1.09
Mflv_2335	acyl-CoA dehydrogenase domain protein	4.0375	26.4906	6.56
Mflv_2336	putative adenylate/guanylate cyclase	23.3698	39.4135	1.69
Mflv_2337	protein of unknown function DUF91	97.4476	41.8191	0.43
Mflv_2338	conserved hypothetical protein	75.9144	36.3231	0.48
Mflv_2339	methylmalonyl-CoA epimerase	5583.36	224.345	0.04
Mflv_2340	acetyl-CoA acetyltransferase	56.0564	46.2642	0.83
Mflv_2341	conserved hypothetical protein	1184.02	158.8	0.13
Mflv_2342	Thioredoxin domain	166.045	72.356	0.44
Mflv_2343	1,4-alpha-glucan branching enzyme	107.293	84.3224	0.79
Mflv_2344	alpha amylase, catalytic region	137.139	48.2692	0.35
Mflv_2345	alpha-glucan phosphorylase	46.301	33.3713	0.72
Mflv_2346	Putative lipoprotein	53.5281	36.8995	0.69
Mflv_2347	helicase c2	15.6847	23.808	1.52
Mflv_2348	phosphoribosyltransferase	74.7709	29.1984	0.39
Mflv_2349	ATP-dependent Clp protease adaptor protein ClpS	426.858	65.873	0.15
Mflv_2350	conserved hypothetical protein	99.7957	36.7658	0.37
Mflv_2351	peptidase S58, DmpA	10.5822	22.27	2.10
Mflv_2352	Mov34/MPN/PAD-1 family protein	59.3209	26.7464	0.45
Mflv_2353	molybdopterin synthase subunit MoaD	58.6545	75.6104	1.29
Mflv_2354	cysteine synthase	35.1274	50.388	1.43
Mflv_2355	Rhomboid family protein	162.648	95.6758	0.59
Mflv_2356	glutamate racemase	40.9216	43.9198	1.07
Mflv_2357	beta-lactamase-like protein	545.084	49.383	0.09
Mflv_2358	RNAse PH	199.833	76.1417	0.38
Mflv_2359	non-canonical purine NTP pyrophosphatase,rdgB/HAM1 family	42.338	64.5409	1.52
Mflv_2360	Pseudogene	5.22613	41.8431	8.01
Mflv_2361	acyltransferases-like protein	25.1964	44.9623	1.78
Mflv_2362	conserved hypothetical protein	340.543	70.9022	0.21
Mflv_2363	lipoprotein, putative	283.247	144.218	0.51
Mflv_2364	hypothetical protein	52.3297	67.7875	1.30
Mflv_2365	hypothetical protein	76.6575	42.1497	0.55
Mflv_2366	conserved hypothetical protein	9464.78	216.801	0.02
Mflv_2367	alpha/beta hydrolase fold protein	338.821	78.1764	0.23
Mflv_2368	transcription factor WhiB	308.532	25.1328	0.08
Mflv_2369	transcriptional regulator, TetR family	101.014	77.4388	0.77
Mflv_2370	transcriptional regulator, AraC family	101.101	65.9148	0.65
Mflv_2371	amidohydrolase 2	41.4379	44.9189	1.08
Mflv_2372	sulfatase	21.8394	34.5438	1.58



Mflv_2373	hypothetical protein	65.7322	32.3076	0.49
Mflv_2374	transcriptional regulator, TetR family	10.4978	21.6613	2.06
Mflv_2375	NAD-dependent epimerase/dehydratase	16.0519	47.5684	2.96
Mflv_2376	acyl-CoA dehydrogenase domain protein	6.06887	22.6253	3.73
Mflv_2377	conserved hypothetical protein	15.9245	51.6783	3.25
Mflv_2378	protein of unknown function DUF35	21.9207	32.2674	1.47
Mflv_2379	conserved hypothetical protein	13.7327	38.2875	2.79
Mflv_2380	short-chain dehydrogenase/reductase SDR	24.3611	42.9616	1.76
Mflv_2381	General substrate transporter	51.1645	43.7153	0.85
Mflv_2382	putative adenylate/guanylate cyclase	17.1356	22.9382	1.34
Mflv_2383	major facilitator superfamily MFS_1	17.9861	30.321	1.69
Mflv_2384	conserved hypothetical protein	77.9726	36.1158	0.46
Mflv_2385	AMP-dependent synthetase and ligase	69.6925	24.5326	0.35
Mflv_2386	short-chain dehydrogenase/reductase SDR	43.6205	23.0978	0.53
Mflv_2387	methylmalonyl-CoA mutase	22.9119	29.4899	1.29
Mflv_2388	cobalamin B12-binding domain protein	5.20662	35.4481	6.81
Mflv_2389	luciferase family protein	13.0166	31.3023	2.40
Mflv_2390	L-carnitine dehydratase/bile acid-inducible protein F	26.9446	50.4297	1.87
Mflv_2391	ferredoxin	421.026	87.5449	0.21
Mflv_2392	AMP-dependent synthetase and ligase	28.5015	35.7438	1.25
Mflv_2393	acyl-CoA dehydrogenase domain protein	9.34639	28.1822	3.02
Mflv_2394	acyl-CoA dehydrogenase domain protein	16.5324	37.3214	2.26
Mflv_2395	Enoyl-CoA hydratase/isomerase	26.8737	31.3677	1.17
Mflv_2396	short-chain dehydrogenase/reductase SDR	17.7949	31.3768	1.76
Mflv_2397	LAO/AO transport system ATPase	14.7937	26.8307	1.81
Mflv_2398	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	15.2865	33.3568	2.18
Mflv_2399	regulatory protein, lciR	12.1067	33.3868	2.76
Mflv_2400	alpha/beta hydrolase fold protein	8.36267	25.0924	3.00
Mflv_2401	monooxygenase, FAD-binding protein	14.1705	33.1882	2.34
Mflv_2402	extradiol ring-cleavage dioxygenase, class III enzyme, subunit B	7.49615	21.3825	2.85
Mflv_2403	fumarate reductase/succinate dehydrogenase flavoprotein-like protein	18.3761	38.8436	2.11
Mflv_2404	luciferase family protein	13.9271	23.9295	1.72
Mflv_2405	short-chain dehydrogenase/reductase SDR	12.516	24.1628	1.93
Mflv_2406	conserved hypothetical protein	14.6555	22.1921	1.51
Mflv_2407	NADPH-dependent FMN reductase	22.8265	42.9334	1.88
Mflv_2408	type III restriction enzyme, res subunit	24.7381	49.5772	2.00
Mflv_2409	restriction modification system DNA specificity domain	39.1901	86.2825	2.20

Mflv_2410	conserved hypothetical protein	38.4751	52.3718	1.36
Mflv_2411	conserved hypothetical protein	292.369	68.6573	0.23
Mflv_2412	PilT protein domain protein	127.746	57.2577	0.45
Mflv_2413	N-6 DNA methylase	66.4164	61.7951	0.93
Mflv_2414	alpha/beta hydrolase fold protein	25.6703	73.0478	2.85
Mflv_2415	short-chain dehydrogenase/reductase SDR	17.2044	41.7995	2.43
Mflv_2416	transcriptional regulator, TetR family	102.489	66.2145	0.65
Mflv_2417	putative ferredoxin	0	55.4942	Pyrene
Mflv_2418	cytochrome P450	29.05	73.1598	2.52
Mflv_2419	amidohydrolase 2	14.1389	40.5192	2.87
Mflv_2420	peptidase M24	12.5731	36.901	2.93
Mflv_2421	peptidase M24	18.3934	46.6674	2.54
Mflv_2422	Enoyl-CoA hydratase/isomerase	16.5011	25.9364	1.57
Mflv_2423	L-carnitine dehydratase/bile acid-inducible protein F	9.19904	24.7058	2.69
Mflv_2424	short-chain dehydrogenase/reductase SDR	13.0506	26.6253	2.04
Mflv_2425	NAD-dependent epimerase/dehydratase	28.8144	30.0009	1.04
Mflv_2426	phospholipid/glycerol acyltransferase	79.493	43.5067	0.55
Mflv_2427	AMP-dependent synthetase and ligase	33.5547	33.1078	0.99
Mflv_2428	Diacylglycerol O-acyltransferase	9.82641	35.3848	3.60
Mflv_2429	protein of unknown function DUF227	17.433	27.0588	1.55
Mflv_2430	short-chain dehydrogenase/reductase SDR	18.721	36.5369	1.95
Mflv_2431	cytochrome P450	38.3606	30.6491	0.80
Mflv_2432	transcriptional regulator, TetR family	294.978	131.52	0.45
Mflv_2433	Enoyl-CoA hydratase/isomerase	26.8075	21.2562	0.79
Mflv_2434	acyl-CoA dehydrogenase domain protein	38.2437	34.032	0.89
Mflv_2435	acyl-CoA dehydrogenase domain protein	26.8478	50.2651	1.87
Mflv_2436	conserved hypothetical protein	10.1963	22.5189	2.21
Mflv_2437	amidohydrolase	16.2349	29.8595	1.84
Mflv_2438	conserved hypothetical protein	39.6127	41.3761	1.04
Mflv_2439	Rieske (2Fe-2S) domain protein	41.4799	59.7275	1.44
Mflv_2440	Carboxymuconolactone decarboxylase	22.3833	29.922	1.34
Mflv_2441	amidohydrolase 2	49.1336	44.5087	0.91
Mflv_2442	acyl-CoA dehydrogenase domain protein	33.0384	32.7435	0.99
Mflv_2443	L-carnitine dehydratase/bile acid-inducible protein F	20.0412	31.0555	1.55
Mflv_2444	Enoyl-CoA hydratase	13.8178	9.33594	0.68
Mflv_2445	acetyl-CoA acetyltransferase	21.8185	27.5931	1.26
Mflv_2446	acyl-CoA dehydrogenase domain protein	25.6052	37.2324	1.45
Mflv_2447	transcriptional regulator, TetR family	56.3032	20.5733	0.37
Mflv_2448	conserved hypothetical protein	81.5959	50.0208	0.61

Mflv_2449	Alcohol dehydrogenase, zinc-binding domain protein	20.8489	49.6472	2.38
Mflv_2450	aminoglycoside phosphotransferase	27.8453	42.3152	1.52
Mflv_2451	acyl-CoA dehydrogenase domain protein	45.4019	42.1242	0.93
Mflv_2452	transcriptional regulator, TetR family	109.394	53.911	0.49
Mflv_2453	luciferase family protein	4.5074	27.68	6.14
Mflv_2454	conserved hypothetical protein	10.0474	34.3836	3.42
Mflv_2455	NAD-dependent epimerase/dehydratase	12.4644	28.8259	2.31
Mflv_2456	conserved hypothetical protein	8.53032	28.6379	3.36
Mflv_2457	von Willebrand factor, type A	16.0292	26.2129	1.64
Mflv_2458	ATPase associated with various cellular activities, AAA_5	13.3491	25.184	1.89
Mflv_2459	conserved hypothetical protein	17.1269	36.22	2.11
Mflv_2460	transcriptional regulator, TetR family	64.1789	43.1309	0.67
Mflv_2461	transcriptional regulator, TetR family	21.0168	23.4398	1.12
Mflv_2462	conserved hypothetical protein	52.9611	40.5254	0.77
Mflv_2463	short-chain dehydrogenase/reductase SDR	45.5608	74.9114	1.64
Mflv_2464	Rieske (2Fe-2S) domain protein	25.3952	55.829	2.20
Mflv_2465	conserved hypothetical protein	17.5593	102.554	5.84
Mflv_2466	amidohydrolase	6.36476	25.7023	4.04
Mflv_2467	transcriptional regulator, MarR family	19.0492	37.8422	1.99
Mflv_2468	ferredoxin	23.3715	90.7334	3.88
Mflv_2469	short-chain dehydrogenase/reductase SDR	10.364	54.7035	5.28
Mflv_2470	Rieske (2Fe-2S) domain protein	13.2496	31.9744	2.41
Mflv_2471	conserved hypothetical protein	17.6905	57.5642	3.25
Mflv_2472	Taurine catabolism dioxygenase TauD/TfdA	12.3448	24.7143	2.00
Mflv_2473	Carboxymuconolactone decarboxylase	12.3203	15.8229	1.28
Mflv_2474	cytochrome P450	142.876	46.8422	0.33
Mflv_2475	protein of unknown function DUF1330	95.9794	50.017	0.52
Mflv_2476	esterase EstC, putative	32.77	49.0531	1.50
Mflv_2477	cytochrome P450	98.6065	40.0969	0.41
Mflv_2478	conserved hypothetical protein	795.112	362.027	0.46
Mflv_2479	cytochrome P450	41.9253	50.2724	1.20
Mflv_2480	6-phosphogluconate dehydrogenase, NAD-binding protein	36.4302	23.1899	0.64
Mflv_2481	6-phosphogluconate dehydrogenase, NAD-binding protein	18.2861	29.6201	1.62
Mflv_2482	conserved hypothetical protein	24.8126	27.3116	1.10
Mflv_2483	protein of unknown function DUF35	23.9444	42.9934	1.80
Mflv_2484	conserved hypothetical protein	13.794	62.4425	4.53
Mflv_2485	Respiratory-chain NADH dehydrogenase domain, 51kDa subunit	15.1683	22.5038	1.48

Mflv_2486	conserved hypothetical protein	11.6281	18.9673	1.63
Mflv_2487	conserved hypothetical protein	28.7318	37.564	1.31
Mflv_2488	Rieske (2Fe-2S) domain protein	88.9013	53.406	0.60
Mflv_2489	amidohydrolase 2	65.2337	50.7301	0.78
Mflv_2490	amidohydrolase 2	123.388	78.7288	0.64
Mflv_2491	acyl-CoA dehydrogenase domain protein	20.3274	28.0398	1.38
Mflv_2492	acyl-CoA dehydrogenase domain protein	12.4739	20.9801	1.68
Mflv_2493	luciferase family protein	56.7706	41.243	0.73
Mflv_2494	conserved hypothetical protein	11.9183	27.8953	2.34
Mflv_2495	barrel	12.2058	35.7834	2.93
Mflv_2496	conserved hypothetical protein	13.1202	34.1205	2.60
Mflv_2497	conserved hypothetical protein	78.1848	54.1874	0.69
Mflv_2498	cytochrome P450	28.1147	30.8909	1.10
Mflv_2499	conserved hypothetical protein	0	36.1831	Pyrene
Mflv_2500	short-chain dehydrogenase/reductase SDR	18.0166	27.244	1.51
Mflv_2501	short-chain dehydrogenase/reductase SDR	22.5478	38.6215	1.71
Mflv_2502	aldehyde dehydrogenase	13.7366	32.3394	2.35
Mflv_2503	L-carnitine dehydratase/bile acid-inducible protein F	19.9209	36.6865	1.84
Mflv_2504	protein of unknown function DUF35	26.4638	23.6992	0.90
Mflv_2505	Thiolase	37.4693	64.0427	1.71
Mflv_2506	protein of unknown function DUF140	34.506	65.683	1.90
Mflv_2507	protein of unknown function DUF140	27.4789	34.1236	1.24
Mflv_2508	virulence factor Mce family protein	26.1485	36.8114	1.41
Mflv_2509	virulence factor Mce family protein	28.6751	43.0479	1.50
Mflv_2510	virulence factor Mce family protein	42.1446	47.9727	1.14
Mflv_2511	virulence factor Mce family protein	39.4686	64.8725	1.64
Mflv_2512	virulence factor Mce family protein	34.978	42.628	1.22
Mflv_2513	virulence factor Mce family protein	32.0017	37.6707	1.18
Mflv_2514	conserved hypothetical protein	86.9521	70.6365	0.81
Mflv_2515	hypothetical protein	207.014	51.2375	0.25
Mflv_2516	hypothetical protein	145.933	39.0834	0.27
Mflv_2517	cytochrome P450	14.7504	36.2492	2.46
Mflv_2518	transcriptional regulator, TetR family	43.1083	42.3308	0.98
Mflv_2519	thiolase	21.9366	27.3457	1.25
Mflv_2520	protein of unknown function DUF35	89.5198	50.3802	0.56
Mflv_2521	conserved hypothetical protein	15.0715	42.4094	2.81
Mflv_2522	short chain enoyl-CoA hydratase	9.95051	32.8044	3.30
Mflv_2523	AMP-dependent synthetase and ligase	13.3265	26.8952	2.02
Mflv_2524	amidohydrolase 2	351.459	117.981	0.34
Mflv_2525	AMP-dependent synthetase and ligase	47.6359	38.7048	0.81

Mflv_2526	hypothetical protein	108.752	111.704	1.03
Mflv_2527	hypothetical protein	148.245	113.066	0.76
Mflv_2528	4-diphosphocytidyl-2C-methyl-D-erythritol synthase	65.4302	49.3222	0.75
Mflv_2529	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase	58.7136	29.296	0.50
Mflv_2530	major facilitator superfamily MFS_1	81.0376	38.3553	0.47
Mflv_2531	family	27.5433	33.8544	1.23
Mflv_2532	fatty acid synthase, bacterial type	116.606	55.4534	0.48
Mflv_2533	4'-phosphopantetheinyl transferase	339.743	63.1758	0.19
Mflv_2534	peptidase M20	39.946	54.5615	1.37
Mflv_2535	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	118.567	70.4451	0.59
Mflv_2536	conserved hypothetical protein	275.284	38.8171	0.14
Mflv_2537	conserved hypothetical protein	110.63	61.0243	0.55
Mflv_2538	peptidase S15	14.9596	30.5319	2.04
Mflv_2539	3-Oxoacyl-(acyl-carrier-protein (ACP)) synthase III C terminal domain protein	69.0918	34.5453	0.50
Mflv_2540	Beta-ketoacyl-acyl-carrier-protein synthase I	56.1814	19.8114	0.35
Mflv_2541	Diaclyglycerol O-acyltransferase	71.9612	33.685	0.47
Mflv_2542	ErfK/YbiS/YcfS/YnhG family protein	394.481	121.134	0.31
Mflv_2543	Exonuclease, RNase T and DNA polymerase III	93.6765	39.3895	0.42
Mflv_2544	protein of unknown function DUF853, NPT hydrolase putative	34.8039	32.2234	0.93
Mflv_2545	short-chain dehydrogenase/reductase SDR	75.7816	24.8407	0.33
Mflv_2546	major facilitator superfamily MFS_1	35.7268	46.0223	1.29
Mflv_2547	putative conserved proline rich membrane protein	65.3354	38.9101	0.60
Mflv_2548	peptidase S9, prolyl oligopeptidase active site domain protein	37.2149	50.3752	1.35
Mflv_2549	hypothetical protein	13768.8	1715.51	0.12
Mflv_2550	conserved hypothetical protein	2761.27	779.987	0.28
Mflv_2551	transcriptional regulator, TetR family	7284.78	418.134	0.06
Mflv_2552	Propionyl-CoA carboxylase	543.604	47.648	0.09
Mflv_2553	Carbamoyl-phosphate synthase L chain,ATP-binding protein	100.986	30.1565	0.30
Mflv_2554	butyryl-CoA dehydrogenase	114.024	43.9009	0.39
Mflv_2555	MaoC domain protein dehydratase	189.877	38.2748	0.20
Mflv_2556	HpcH/Hpal aldolase	72.6952	33.0245	0.45
Mflv_2557	Enoyl-CoA hydratase/isomerase	55.6046	35.9354	0.65
Mflv_2558	acyl-ACP thioesterase	48.0477	34.4704	0.72
Mflv_2559	conserved hypothetical protein	82.5476	64.0237	0.78
Mflv_2560	transcriptional regulator, TetR family	24.5652	27.1083	1.10

Mflv_2561	alpha/beta hydrolase fold protein	842.833	42.5967	0.05
Mflv_2562	hypothetical protein	39.1066	32.0144	0.82
Mflv_2563	Diacylglycerol O-acyltransferase	21.1205	43.6449	2.07
Mflv_2564	1-acyl-sn-glycerol-3-phosphate acyltransferase	31.4749	37.8848	1.20
Mflv_2565	glycerol-3-phosphate acyltransferase	34.5441	43.8009	1.27
Mflv_2566	copper resistance D domain protein	39.5274	47.8918	1.21
Mflv_2567	single-strand binding protein	21.4191	338.721	15.81
Mflv_2568	ABC transporter related protein	102.323	113.863	1.11
Mflv_2569	glutamate dehydrogenase (NAD)	48.092	45.5676	0.95
Mflv_2570	conserved hypothetical protein	55.4852	51.9926	0.94
Mflv_2571	conserved hypothetical protein	42.1339	40.3292	0.96
Mflv_2572	globin	395.392	40.8131	0.10
Mflv_2573	HNH endonuclease	62.3631	47.2636	0.76
Mflv_2574	hypothetical protein	1073.08	216.268	0.20
Mflv_2575	conserved hypothetical protein	140.512	69.3645	0.49
Mflv_2576	HNH nuclease	70.0655	64.3306	0.92
Mflv_2577	Membrane alanyl aminopeptidase. Metallopeptidase. MEROPS family M01	57.9419	43.1593	0.74
Mflv_2578	DsbA oxidoreductase	96.352	195.843	2.03
Mflv_2579	protein	35.2607	91.4189	2.59
Mflv_2580	2OG-Fe(II) oxygenase	29.5019	63.5861	2.16
Mflv_2581	ribose 5-phosphate isomerase	269.423	38.6791	0.14
Mflv_2582	Formamidopyrimidine-DNA glycolase	33.3003	36.4594	1.09
Mflv_2583	sodium/proton antiporter, CPA1 family	28.117	45.9618	1.63
Mflv_2584	conserved hypothetical protein	464.303	56.4732	0.12
Mflv_2585	protein Pfam: Lactamase_B	72.1647	40.7386	0.56
Mflv_2586	conserved hypothetical protein	30.3637	38.8979	1.28
Mflv_2587	trigger factor	180.411	60.8227	0.34
Mflv_2588	ATP-dependent Clp protease proteolytic subunit ClpP	287.036	167.841	0.58
Mflv_2589	ATP-dependent Clp protease proteolytic subunit ClpP	300.024	179.267	0.60
Mflv_2590	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	169.021	73.1063	0.43
Mflv_2591	ATP-dependent Clp protease ATP-binding subunit	382.532	127.983	0.33
Mflv_2592	glycosyltransferase, MGT family	18.018	59.3676	3.29
Mflv_2593	formate dehydrogenase, subunit FdhD	18.5635	38.8669	2.09
Mflv_2594	oxidoreductase alpha (molybdopterin) subunit	31.7172	37.5899	1.19
Mflv_2595	transcriptional regulator, LysR family	8.89881	28.3682	3.19
Mflv_2596	glutamine synthetase, catalytic region	14.7478	25.8683	1.75

Mflv_2597	hypothetical protein	72.0674	39.5733	0.55
Mflv_2598	myo-inositol 2-dehydrogenase	26.0392	35.894	1.38
Mflv_2599	3D-(3,5/4)-trihydroxycyclohexane-1,2-dione hydrolase	26.7069	31.4036	1.18
Mflv_2600	5-deoxyglucuronate isomerase	15.9892	37.9522	2.37
Mflv_2601	conserved hypothetical protein	17.3347	25.05	1.45
Mflv_2602	5-dehydro-2-deoxygluconokinase	81.0117	43.1925	0.53
Mflv_2603	transcriptional regulator, GntR family	119.499	46.4543	0.39
Mflv_2604	barrel	35.7061	36.5849	1.02
Mflv_2605	monosaccharide ABC transporter substrate-binding protein, CUT2 family	93.512	48.6523	0.52
Mflv_2606	monosaccharide ABC transporter membrane protein, CUT2 family	58.3659	98.5675	1.69
Mflv_2607	monosaccharide ABC transporter ATP-binding protein, CUT2 family	41.9231	44.3691	1.06
Mflv_2608	conserved hypothetical protein	22.6204	35.675	1.58
Mflv_2609	hypothetical protein	11.3359	24.5032	2.16
Mflv_2610	conserved hypothetical protein	458.111	44.2368	0.10
Mflv_2611	oxidoreductase domain protein	77.4209	43.7077	0.56
Mflv_2612	2-keto-myo-inositol dehydratase	18.4074	27.5448	1.50
Mflv_2613	Inositol 2-dehydrogenase	14.2343	25.6345	1.80
Mflv_2614	Phytanoyl-CoA dioxygenase	50.7349	28.7096	0.57
Mflv_2615	monosaccharide ABC transporter substrate-binding protein, CUT2 family	22.8583	26.0143	1.14
Mflv_2616	pyruvate flavodoxin/ferredoxin oxidoreductase domain protein	503.07	111.297	0.22
Mflv_2617	thiamine pyrophosphate enzyme domain protein TPP-binding protein	500.424	134.795	0.27
Mflv_2618	molybdenum cofactor guanylyltransferase	36.6897	47.0155	1.28
Mflv_2619	Transglycosylase domain protein	10.1319	133.687	13.19
Mflv_2620	Transglycosylase domain protein	509.337	55.8309	0.11
Mflv_2621	monooxygenase, FAD-binding protein	33.1935	32.8688	0.99
Mflv_2622	hypothetical protein	10.5106	22.6046	2.15
Mflv_2623	ferredoxin	5.38146	15.009	2.79
Mflv_2624	conserved hypothetical protein	8.28829	38.8354	4.69
Mflv_2625	conserved hypothetical protein	141.395	22.1393	0.16
Mflv_2626	ammonium transporter	9.43542	46.9433	4.98
Mflv_2627	peptidase S9, prolyl oligopeptidase active site domain protein	29.9408	23.1185	0.77
Mflv_2628	Saccharopine dehydrogenase	78.7001	32.8373	0.42
Mflv_2629	conserved hypothetical protein	64.482	55.176	0.86
Mflv_2630	valyl-tRNA synthetase	60.3848	52.8546	0.88
Mflv_2631	FolC bifunctional protein	30.3202	45.9611	1.52

Mflv_2632	conserved hypothetical protein	24.6658	73.5379	2.98
Mflv_2633	nucleoside diphosphate kinase	590.839	104.678	0.18
Mflv_2634	ribonuclease, Rne/Rng family	523.716	107.02	0.20
Mflv_2635	LSU ribosomal protein L21P	1938.84	270.878	0.14
Mflv_2636	LSU ribosomal protein L27P	1074.99	271.264	0.25
Mflv_2637	GTP1/OBG sub domain protein	41.0669	51.4815	1.25
Mflv_2638	glutamate 5-kinase	14.6562	46.0255	3.14
Mflv_2639	transcriptional regulator, TetR family	17.2377	27.2756	1.58
Mflv_2640	cytochrome P450	15.815	37.7959	2.39
Mflv_2641	Silent information regulator protein Sir2	67.8627	67.1342	0.99
Mflv_2642	NAD+ synthetase	74.6125	34.8866	0.47
Mflv_2643	Ribokinase	14.5214	28.6016	1.97
Mflv_2644	gamma-glutamyl phosphate reductase	32.6053	36.0096	1.10
Mflv_2645	ATPase associated with various cellular activities, AAA_5	22.8753	63.4479	2.77
Mflv_2646	wd-40 repeat-containing protein	13.8036	35.8656	2.60
Mflv_2647	hypothetical protein	149.383	46.2867	0.31
Mflv_2648	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	32.488	40.3481	1.24
Mflv_2649	FAD dependent oxidoreductase	16.6172	17.1467	1.03
Mflv_2650	glycerol kinase	25.8777	29.3997	1.14
Mflv_2651	amino acid/polyamine/organocation transporter, APC superfamily	54.4543	40.5071	0.74
Mflv_2652	transcriptional regulator, GntR family	55.9532	36.6808	0.66
Mflv_2653	nicotinate (nicotinamide) nucleotide adenyltransferase	37.8799	38.1051	1.01
Mflv_2654	iojap-like protein	59.2067	34.7746	0.59
Mflv_2655	Phosphoglycerate mutase	6.46542	40.5527	6.27
Mflv_2656	conserved hypothetical protein	5.68864	22.8846	4.02
Mflv_2657	degV family protein	16.0387	38.711	2.41
Mflv_2658	dihydrodipicolinate reductase	25.8828	37.3649	1.44
Mflv_2659	short-chain dehydrogenase/reductase SDR	15.8529	15.9995	1.01
Mflv_2660	transposase, IS4 family	5.38812	19.9548	3.70
Mflv_2661	hypothetical protein	25.598	31.5333	1.23
Mflv_2662	competence protein ComEA helix-hairpin-helix repeat protein	2.84088	15.0997	5.32
Mflv_2663	ComEC/Rec2-related protein	2.2118	19.8927	8.99
Mflv_2664	DNA polymerase III, delta	91.5418	42.2045	0.46
Mflv_2665	SSU ribosomal protein S20P	3998.06	637.673	0.16
Mflv_2666	protein of unknown function DUF404	101.438	47.7716	0.47
Mflv_2667	protein of unknown function DUF403	46.9095	25.5216	0.54
Mflv_2668	protein	75.5061	60.5918	0.80



Mflv_2669	beta-lactamase-like protein	44.4788	39.9749	0.90
Mflv_2670	putative signal-transduction protein with CBS domains	41.4226	92.0291	2.22
Mflv_2671	GCN5-related N-acetyltransferase	48.9707	67.6096	1.38
Mflv_2672	conserved hypothetical protein	83.7396	51.2285	0.61
Mflv_2673	GTP-binding protein LepA	83.4991	53.8417	0.64
Mflv_2674	Putative lipoprotein	40.4098	38.2657	0.95
Mflv_2675	serine/threonine protein kinase	31.0026	42.1343	1.36
Mflv_2676	glycoside hydrolase 15-related protein	50.4596	41.1041	0.81
Mflv_2677	conserved hypothetical protein	424.62	93.0975	0.22
Mflv_2678	sulfate ABC transporter, periplasmic	32.6803	50.737	1.55
Mflv_2679	sulfate ABC transporter, inner membrane subunit CysT	12.3638	61.8575	5.00
Mflv_2680	sulfate ABC transporter, inner membrane subunit CysW	23.1019	78.7319	3.41
Mflv_2681	sulfate ABC transporter, ATPase subunit	13.9809	40.0323	2.86
Mflv_2682	protein of unknown function DUF21	10.5492	45.1851	4.28
Mflv_2683	CBS domain containing protein	15.62	50.2056	3.21
Mflv_2684	cobalamin (vitamin B12) biosynthesis CbiX protein	12.8985	43.9358	3.41
Mflv_2685	phosphoadenylylsulfate reductase (thioredoxin)	116.306	301.117	2.59
Mflv_2686	Ferredoxin--nitrite reductase	80.4014	48.0077	0.60
Mflv_2687	coproporphyrinogen III oxidase, anaerobic	3.91578	26.5116	6.77
Mflv_2688	conserved hypothetical protein	255.938	47.0636	0.18
Mflv_2689	hypothetical protein	95.6397	22.3721	0.23
Mflv_2690	beta-ketoacyl synthase	7.29656	24.4393	3.35
Mflv_2691	AMP-dependent synthetase and ligase	8.64327	23.8349	2.76
Mflv_2692	amino acid adenylation domain	10.7867	39.0692	3.62
Mflv_2693	Thioesterase	3.99093	37.4598	9.39
Mflv_2694	beta-ketoacyl synthase	9.18566	24.6363	2.68
Mflv_2695	acyl transferase region	32.1108	29.504	0.92
Mflv_2696	amino acid adenylation domain	7.89867	33.0847	4.19
Mflv_2697	amino acid adenylation domain	8.50375	25.0174	2.94
Mflv_2698	FAD dependent oxidoreductase	14.9699	39.9801	2.67
Mflv_2699	MbtH-like protein	0	25.3512	Pyrene
Mflv_2700	conserved hypothetical protein	41.7598	75.7659	1.81
Mflv_2701	heat-inducible transcription repressor HrcA	358.957	102.8	0.29
Mflv_2702	chaperone protein DnaJ	189.662	66.021	0.35
Mflv_2703	protein of unknown function DUF558	36.9319	35.9914	0.97
Mflv_2704	membrane family protein	68.5802	47.9446	0.70
Mflv_2705	Transport protein	27.4935	68.7699	2.50

Mflv_2706	PhoH family protein	228.354	60.2484	0.26
Mflv_2707	protein of unknown function UPF0054	112.598	66.4552	0.59
Mflv_2708	CBS domain containing protein	31.2621	51.0083	1.63
Mflv_2709	conserved hypothetical protein	0	18.5393	Pyrene
Mflv_2710	GTP-binding protein Era	26.7244	42.7833	1.60
Mflv_2711	conserved hypothetical protein	113.209	65.9684	0.58
Mflv_2712	Amidase	18.5515	30.2847	1.63
Mflv_2713	DNA replication and repair protein RecO	61.5389	33.4803	0.54
Mflv_2714	Undecaprenyl pyrophosphate synthetase	50.9951	31.9378	0.63
Mflv_2715	conserved hypothetical protein	6.2308	31.1183	4.99
Mflv_2716	hypothetical protein	0	48.3365	Pyrene
Mflv_2717	zinc uptake regulator, Fur family	25.3271	48.5289	1.92
Mflv_2718	transcriptional regulator, ArsR family	114.341	13.4931	0.12
Mflv_2719	glycyl-tRNA synthetase	174.037	59.9335	0.34
Mflv_2720	protein of unknown function DUF477	19.3792	32.6924	1.69
Mflv_2721	putative deoxyguanosinetriphosphate triphosphohydrolase	46.8855	52.8058	1.13
Mflv_2722	DNA primase	35.5977	37.02	1.04
Mflv_2723	hypothetical protein	7232.22	247.505	0.03
Mflv_2724	hypothetical protein	0	7.68186	Pyrene
Mflv_2725	Putative lipoprotein	141.162	37.3579	0.26
Mflv_2726	acyl-CoA dehydrogenase domain protein	163.618	52.9439	0.32
Mflv_2727	protein of unknown function DUF125, transmembrane	77.4788	61.903	0.80
Mflv_2728	major facilitator superfamily MFS_1	18.6459	44.8817	2.41
Mflv_2729	transcriptional regulator, MarR family	23.342	36.7699	1.58
Mflv_2730	ABC transporter related protein	103.197	43.8413	0.42
Mflv_2731	cobalt transport protein	36.1293	40.7292	1.13
Mflv_2732	peptidase U62, modulator of DNA gyrase	48.0874	40.8309	0.85
Mflv_2733	conserved hypothetical protein	14.5829	45.2609	3.10
Mflv_2734	conserved hypothetical protein	28.3984	34.7194	1.22
Mflv_2735	hypothetical protein	6.14721	12.4288	2.02
Mflv_2736	hypothetical protein	119.651	27.8245	0.23
Mflv_2737	conserved hypothetical protein	51.7504	50.359	0.97
Mflv_2738	hypothetical protein	71.5013	57.0947	0.80
Mflv_2739	conserved hypothetical protein	268.467	49.8968	0.19
Mflv_2740	diguanylate cyclase/phosphodiesterase	12.6814	36.6555	2.89
Mflv_2741	uncharacterized protein UPF0065	13.4954	33.3845	2.47
Mflv_2742	protein phosphatase 2C domain protein	33.6863	44.4753	1.32
Mflv_2743	hypothetical protein	51.7772	39.5936	0.76
Mflv_2744	MscS mechanosensitive ion channel	77.9296	62.8881	0.81

Mflv_2745	protein of unknown function DUF427	60.7484	40.8435	0.67
Mflv_2746	amino acid/peptide transporter	21.4702	46.5939	2.17
Mflv_2747	conserved hypothetical protein	48.3308	33.7954	0.70
Mflv_2748	Zinc metalloprotease (elastase)-like protein	15.7938	21.7531	1.38
Mflv_2749	alpha/beta hydrolase fold protein	7.57323	23.9336	3.16
Mflv_2750	putative branched-chain amino acid transporter	29.8713	59.3378	1.99
Mflv_2751	branched-chain amino acid transport	5.17076	17.5381	3.39
Mflv_2752	family	46.4989	32.84	0.71
Mflv_2753	Rieske (2Fe-2S) region	33.2352	58.7104	1.77
Mflv_2754	dihydrodipicolinate reductase	17.0134	35.593	2.09
Mflv_2755	hypothetical protein	42.031	57.5014	1.37
Mflv_2756	HNH nuclease	16.7008	49.6998	2.98
Mflv_2757	short-chain dehydrogenase/reductase SDR	41.3715	36.0937	0.87
Mflv_2758	AAA ATPase	38.1601	38.6286	1.01
Mflv_2759	binding-protein-dependent transport systems inner membrane component	23.1993	43.3342	1.87
Mflv_2760	binding-protein-dependent transport systems inner membrane component	52.2538	34.6841	0.66
Mflv_2761	extracellular solute-binding protein, family 5	209.243	28.4215	0.14
Mflv_2762	conserved hypothetical protein	122.938	89.7917	0.73
Mflv_2763	dihydrodipicolinate reductase	40.7676	38.5418	0.95
Mflv_2764	conserved hypothetical protein	51.528	36.8768	0.72
Mflv_2765	beta-lactamase domain protein	52.4995	55.2048	1.05
Mflv_2766	Alcohol dehydrogenase, zinc-binding domain protein	31.3813	57.9892	1.85
Mflv_2767	Extradiol ring-cleavage dioxygenase, class III enzyme, subunit B	25.7702	29.1206	1.13
Mflv_2768	Methyltransferase type 11	21.2657	25.0856	1.18
Mflv_2769	beta-lactamase	78.3422	30.0842	0.38
Mflv_2770	conserved hypothetical protein	12407.4	407.592	0.03
Mflv_2771	diacylglycerol kinase	1506.78	141.403	0.09
Mflv_2772	Alkylglycerone-phosphate synthase	165.19	45.5908	0.28
Mflv_2773	transcriptional regulator, TetR family	44.6685	18.2262	0.41
Mflv_2774	FAD dependent oxidoreductase	30.1324	70.2037	2.33
Mflv_2775	Propionyl-CoA carboxylase	236.821	105.049	0.44
Mflv_2776	beta-ketoacyl synthase	208.706	102.103	0.49
Mflv_2777	3-oxoacyl-[acyl-carrier-protein] synthase II	467.781	264.529	0.57
Mflv_2778	phosphopantetheine-binding protein	2104.88	608.895	0.29
Mflv_2779	S-malonyltransferase (acyl-carrier protein)	459.242	71.309	0.16
Mflv_2780	conserved hypothetical protein	40.553	38.3578	0.95
Mflv_2781	2-oxo-acid dehydrogenase E1 subunit, homodimeric type	86.5271	65.0731	0.75

Mflv_2782	conserved hypothetical protein	25.0449	38.7634	1.55
Mflv_2783	conserved hypothetical protein	436.294	193.449	0.44
Mflv_2784	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ mal allergen	57.5114	47.1869	0.82
Mflv_2785	hypothetical protein	41.6504	153.993	3.70
Mflv_2786	phage integrase family protein	34.6868	48.1713	1.39
Mflv_2787	conserved hypothetical protein	35.4678	84.5571	2.38
Mflv_2788	Integrase, catalytic region	4.19581	7.94459	1.89
Mflv_2789	conserved hypothetical protein	0	97.2965	Pyrene
Mflv_2790	hypothetical protein	15.5669	47.4161	3.05
Mflv_2791	hypothetical protein	16.2438	37.7217	2.32
Mflv_2792	ATP-dependent exoDNAse (exonuclease V) alpha subunit - helicase superfamily I member-like protein	8.98379	25.4763	2.84
Mflv_2793	conserved hypothetical protein	9.58368	44.8732	4.68
Mflv_2794	hypothetical protein	8.39587	49.8843	5.94
Mflv_2795	hypothetical protein	5.97119	54.8365	9.18
Mflv_2796	helix-turn-helix- domain containing protein, AraC type	26.1644	46.6393	1.78
Mflv_2797	conserved hypothetical protein	141.621	275.466	1.95
Mflv_2798	hypothetical protein	15.6364	36.7952	2.35
Mflv_2799	conserved hypothetical protein	57.1389	112.755	1.97
Mflv_2800	ErfK/YbiS/YcfS/YnhG family protein	71.7402	149.006	2.08
Mflv_2801	conserved hypothetical protein	27.3946	60.4409	2.21
Mflv_2802	DSBA oxidoreductase	64.8324	68.8149	1.06
Mflv_2803	conserved hypothetical protein	62.6886	76.3712	1.22
Mflv_2804	putative conserved lipoprotein LpqU	48.2969	30.056	0.62
Mflv_2805	hypothetical protein	0	24.7294	Pyrene
Mflv_2806	Abortive infection protein	41.6778	67.2949	1.61
Mflv_2807	copper resistance protein CopC	103.289	83.9327	0.81
Mflv_2808	LSU ribosomal protein L29P	13.2344	34.2797	2.59
Mflv_2809	cytochrome c oxidase, subunit III	20.7124	95.9175	4.63
Mflv_2810	hypothetical protein	7.07916	25.2988	3.57
Mflv_2811	hypothetical protein	22.8254	47.9001	2.10
Mflv_2812	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	51.6003	87.248	1.69
Mflv_2813	putative membrane protein	60.2777	68.1043	1.13
Mflv_2814	hypothetical protein	184.264	17.9984	0.10
Mflv_2815	peptidase M48, Ste24p	64.7731	62.2614	0.96
Mflv_2816	transcriptional repressor, CopY family	639.536	129.65	0.20
Mflv_2817	peptidase M23B	11.3087	25.4445	2.25
Mflv_2818	Cytochrome-c oxidase	16.7137	49.3319	2.95

Mflv_2819	hypothetical protein	23.241	59.4645	2.56
Mflv_2820	cytochrome c assembly protein	19.1675	89.5367	4.67
Mflv_2821	acyltransferase 3	10.676	32.3345	3.03
Mflv_2822	heavy metal translocating P-type ATPase	116.233	26.7758	0.23
Mflv_2823	putative adenylate/guanylate cyclase	19.3262	40.9443	2.12
Mflv_2824	ErfK/YbiS/YcfS/YnhG family protein	10.563	48.499	4.59
Mflv_2825	cytochrome c biogenesis protein, transmembrane region	29.0307	62.3923	2.15
Mflv_2826	copper resistance D domain protein	12.783	36.289	2.84
Mflv_2827	hypothetical protein	0	52.827	Pyrene
Mflv_2828	DSBA oxidoreductase	10.8504	22.2701	2.05
Mflv_2829	hypothetical protein	7.67638	39.9863	5.21
Mflv_2830	hypothetical protein	1.6213	19.1594	11.82
Mflv_2831	heavy metal translocating P-type ATPase	18.7849	31.2113	1.66
Mflv_2832	transcriptional regulator, ArsR family	71.972	76.9406	1.07
Mflv_2833	conserved hypothetical protein	400.656	47.6117	0.12
Mflv_2834	conserved hypothetical protein	675.608	192.88	0.29
Mflv_2835	putative alkylmercury lyase	9.68634	8.49166	0.88
Mflv_2836	protein of unknown function DUF305	380.538	36.2785	0.10
Mflv_2837	integral membrane sensor signal transduction histidine kinase	43.4687	41.4467	0.95
Mflv_2838	two component transcriptional regulator, winged helix family	21.4226	47.5245	2.22
Mflv_2839	NLP/P60 protein	13.029	50.0711	3.84
Mflv_2840	transcriptional repressor, CopY family	20.7922	77.5355	3.73
Mflv_2841	peptidase M48, Ste24p	36.0079	74.0415	2.06
Mflv_2842	response regulator receiver protein	21.8207	43.2404	1.98
Mflv_2843	NLP/P60 protein	30.4475	59.4481	1.95
Mflv_2844	ErfK/YbiS/YcfS/YnhG family protein	7.84061	39.3364	5.02
Mflv_2845	ErfK/YbiS/YcfS/YnhG	12.6076	35.2421	2.80
Mflv_2846	alpha/beta hydrolase fold protein	26.2688	74.11	2.82
Mflv_2847	Heavy metal transport/detoxification protein	13.0255	247.646	19.01
Mflv_2848	conserved hypothetical protein	11.7155	169.334	14.45
Mflv_2849	heavy metal translocating P-type ATPase	18.1231	142.137	7.84
Mflv_2850	YHS domain protein	0	50.4579	Pyrene
Mflv_2851	protein of unknown function DUF156	3.91616	114.594	29.26
Mflv_2852	copper-translocating P-type ATPase	19.3003	64.9651	3.37
Mflv_2853	conserved hypothetical protein	106.928	56.7244	0.53
Mflv_2854	conserved hypothetical protein	51.7119	75.5804	1.46
Mflv_2855	AMP-dependent synthetase and ligase	16.1062	34.5617	2.15
Mflv_2856	ABC transporter related protein	12.6375	20.0264	1.58

Mflv_2857	binding-protein-dependent transport systems inner membrane component	21.2091	67.0176	3.16
Mflv_2858	extracellular solute-binding protein, family 1	80.4814	77.9092	0.97
Mflv_2859	hypothetical protein	44.8295	87.2255	1.95
Mflv_2860	hypothetical protein	94.0232	91.0271	0.97
Mflv_2861	conserved hypothetical protein	55.6923	50.7598	0.91
Mflv_2862	Methyltransferase type 11	31.1151	45.3766	1.46
Mflv_2863	apolipoprotein N-acyltransferase	32.1069	49.1215	1.53
Mflv_2864	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	23.7986	47.2826	1.99
Mflv_2865	transcriptional regulator, ArsR family	41.4806	111.079	2.68
Mflv_2866	heavy metal translocating P-type ATPase	96.5783	32.0182	0.33
Mflv_2867	lipoprotein signal peptidase	59.5886	48.9174	0.82
Mflv_2868	cadmium resistance transporter	43.2509	76.1305	1.76
Mflv_2869	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	138.609	26.7831	0.19
Mflv_2870	conserved hypothetical protein	220.275	80.169	0.36
Mflv_2871	conserved hypothetical protein	613.912	84.8581	0.14
Mflv_2872	NLP/P60 protein	34.6327	47.302	1.37
Mflv_2873	hypothetical protein	1192.03	77.9283	0.07
Mflv_2874	conserved hypothetical protein	112.81	75.5159	0.67
Mflv_2875	IstB domain protein ATP-binding protein	16.3892	27.2434	1.66
Mflv_2876	transposase, mutator type	0	0	-
Mflv_2877	Integrase, catalytic region	17.1035	36.3407	2.12
Mflv_2878	TatD-related deoxyribonuclease	23.2151	32.7469	1.41
Mflv_2879	hypothetical protein	44.6429	58.8573	1.32
Mflv_2880	hypothetical protein	23.215	41.5069	1.79
Mflv_2881	KAP P-loop domain protein	30.772	61.5289	2.00
Mflv_2882	hypothetical protein	1892.46	225.81	0.12
Mflv_2883	diguanylate cyclase with PAS/PAC sensor	48.0791	45.9282	0.96
Mflv_2884	SOUL heme-binding protein	375	38.4652	0.10
Mflv_2885	Amidohydrolase 3	23.0851	28.288	1.23
Mflv_2886	adenosylcobinamide-phosphate synthase	3.9953	17.1192	4.28
Mflv_2887	putative conserved transmembrane protein	47.7612	35.5914	0.75
Mflv_2888	protein tyrosine phosphatase	50.9698	53.7355	1.05
Mflv_2889	HAD-superfamily hydrolase, subfamily IA, variant 1	172.388	47.7355	0.28
Mflv_2890	protein of unknown function DUF34	37.386	32.5007	0.87
Mflv_2891	protein of unknown function DUF164	18.9737	23.1339	1.22
Mflv_2892	Phosphoglycerate mutase	18.8955	27.1538	1.44
Mflv_2893	family	12.7373	22.6533	1.78
Mflv_2894	disulfide	18.535	30.5676	1.65

Mflv_2895	Methyltransferase type 11	13.3678	26.8926	2.01
Mflv_2896	transposase, IS204/IS1001/IS1096/IS1165 family protein	0	0	-
Mflv_2897	HNH nuclease	13.9021	58.6661	4.22
Mflv_2898	Glyoxalase/bleomycin resistance	217.16	33.6847	0.16
Mflv_2899	transcriptional regulator, AraC family	32.2473	19.9269	0.62
Mflv_2900	CHAD domain containing protein	40.0827	32.4371	0.81
Mflv_2901	AMP-dependent synthetase and ligase	277.431	46.2463	0.17
Mflv_2902	Enoyl-CoA hydratase	101.997	45.955	0.45
Mflv_2903	ketopantoate hydroxymethyltransferase	531.05	138.844	0.26
Mflv_2904	tripeptidyl-peptidase B. Serine peptidase. MEROPS family S33	48.5129	28.9636	0.60
Mflv_2905	GCN5-related N-acetyltransferase	36.7346	72.6592	1.98
Mflv_2906	tripeptidyl-peptidase B. Serine peptidase. MEROPS family S33	46.2854	38.1578	0.82
Mflv_2907	acyl-CoA thioesterase	8.42707	29.8916	3.55
Mflv_2908	conserved hypothetical protein	25.8724	31.7053	1.23
Mflv_2909	glutamine synthetase, type I	224.669	61.6582	0.27
Mflv_2910	Glutamate--ammonia-ligase) adenylyltransferase	32.8777	31.355	0.95
Mflv_2911	thioesterase superfamily protein	51.7762	24.5768	0.47
Mflv_2912	luciferase family protein	31.7332	56.8056	1.79
Mflv_2913	40-residue YVTN family beta-propeller repeat protein	24.3431	41.8392	1.72
Mflv_2914	DoxX family protein	1301.33	102.033	0.08
Mflv_2915	hypothetical protein	136.037	39.3539	0.29
Mflv_2916	HNH endonuclease	21.5	25.6432	1.19
Mflv_2917	phage prohead protease, HK97 family	12.3909	20.9531	1.69
Mflv_2918	hypothetical protein	9.79961	25.8738	2.64
Mflv_2919	hypothetical protein	0	23.0347	Pyrene
Mflv_2920	hypothetical protein	0	21.7332	Pyrene
Mflv_2921	hypothetical protein	4.88985	39.1937	8.02
Mflv_2922	hypothetical protein	287.453	53.1208	0.18
Mflv_2923	hypothetical protein	27.3242	36.9251	1.35
Mflv_2924	hypothetical protein	13.2451	33.7711	2.55
Mflv_2925	conserved hypothetical protein	0	3.95742	Pyrene
Mflv_2926	transcriptional regulator, Fis family	89.0018	29.23	0.33
Mflv_2927	phage integrase family protein	52.5219	29.6543	0.56
Mflv_2928	L-glutamine synthetase	442.531	68.1621	0.15
Mflv_2929	RDD domain containing protein	213.408	76.3975	0.36
Mflv_2930	Amidohydrolase 3	40.3275	40.4116	1.00
Mflv_2931	conserved hypothetical protein	126.153	67.6058	0.54

Mflv_2932	lipoic acid synthetase	207.9	90.7792	0.44
Mflv_2933	lipoate-protein ligase B	94.3429	52.2347	0.55
Mflv_2934	domain of unknown function DUF1731	119.225	39.5131	0.33
Mflv_2935	2-oxoglutarate dehydrogenase E2 component	177.6	80.1731	0.45
Mflv_2936	conserved hypothetical protein	115.289	43.093	0.37
Mflv_2937	short-chain dehydrogenase/reductase SDR	22.295	30.2368	1.36
Mflv_2938	Leucyl aminopeptidase	39.5368	39.7646	1.01
Mflv_2939	aminomethyltransferase	105.961	57.6531	0.54
Mflv_2940	aminotransferase apoenzyme / branched chain amino acid:2-keto-4-methylthiobutyrate aminotransferase apoenzyme	309.386	84.9632	0.27
Mflv_2941	cobalamin-5'-phosphate synthase	7.23548	32.3496	4.47
Mflv_2942	dimethylbenzimidazole phosphoribosyltransferase	22.3793	24.1511	1.08
Mflv_2943	conserved hypothetical protein	33.495	44.66	1.33
Mflv_2944	Glycerate kinase	8.98717	16.2016	1.80
Mflv_2945	iron-sulfur cluster assembly accessory protein	7709.73	1864.12	0.24
Mflv_2946	hypothetical protein	203.518	216.975	1.07
Mflv_2947	Adenosine kinase	113.157	82.3833	0.73
Mflv_2948	asparagine synthase (glutamine-hydrolysing)	42.6172	54.7221	1.28
Mflv_2949	cytochrome c oxidase, subunit II	534.342	204.603	0.38
Mflv_2950	putative conserved integral membrane protein	299.995	186.749	0.62
Mflv_2951	conserved hypothetical protein	20.3172	41.0435	2.02
Mflv_2952	conserved hypothetical protein	33.6	31.7015	0.94
Mflv_2953	menaquinol-cytochrome c reductase cytochrome b subunit precursor	400.584	213.217	0.53
Mflv_2954	menaquinol-cytochrome c reductase iron-sulfur subunit precursor	275.485	172.057	0.62
Mflv_2955	menaquinol-cytochrome c reductase cytochrome c1 subunit precursor	201.275	91.8948	0.46
Mflv_2956	cytochrome c oxidase, subunit III	1292.65	224.665	0.17
Mflv_2957+B2992	anthranilate phosphoribosyltransferase	32.9297	38.569	1.17
Mflv_2958	DNA polymerase III, epsilon subunit	14.559	26.0393	1.79
Mflv_2959	NLP/P60 protein	61.5403	74.2375	1.21
Mflv_2960	conserved hypothetical protein	2.68273	28.2993	10.55
Mflv_2961	glycosyl transferase, group 1	16.7177	42.8531	2.56
Mflv_2962	AMP-dependent synthetase and ligase	54.5623	48.0851	0.88
Mflv_2963	conserved hypothetical protein	41.818	24.66	0.59
Mflv_2964	cyclase/dehydrase	432.987	63.0712	0.15



Mflv_2965	arsenite efflux ATP-binding protein ArsA	26.7376	33.7166	1.26
Mflv_2966	hypothetical protein	9.0287	23.9182	2.65
Mflv_2967	1-acyl-sn-glycerol-3-phosphate acyltransferase	441.552	96.6002	0.22
Mflv_2968	putative conserved integral membrane protein	105.042	50.2701	0.48
Mflv_2969	conserved hypothetical protein	29.3613	49.5701	1.69
Mflv_2970	conserved hypothetical protein	40.482	30.4959	0.75
Mflv_2971	3-deoxy-D-arabinoheptulosonate-7-phosphate synthase	194.776	63.2654	0.32
Mflv_2972	serine/threonine protein kinase	65.2638	29.4447	0.45
Mflv_2973	conserved hypothetical protein	77.8956	29.06	0.37
Mflv_2974	conserved hypothetical protein	25.7858	47.1563	1.83
Mflv_2975	geranylgeranyl-diphosphate synthase	44.906	36.5277	0.81
Mflv_2976	Putative lipoprotein	67.3677	27.3352	0.41
Mflv_2977	GCN5-related N-acetyltransferase	84.1202	23.4944	0.28
Mflv_2978	putative conserved transmembrane protein	10285.8	306.381	0.03
Mflv_2979	protein of unknown function UPF0040	2925.6	229.661	0.08
Mflv_2980	S-adenosyl-methyltransferase MraW	276.817	61.1508	0.22
Mflv_2981	hypothetical protein	50.885	63.4497	1.25
Mflv_2982	Peptidoglycan glycosyltransferase	94.6205	57.0297	0.60
Mflv_2983	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase	24.0277	46.5029	1.94
Mflv_2984	UDP-N-acetylmuramoyl-tripeptide--D-alanyl-D-alanine ligase	10.6122	32.2162	3.04
Mflv_2985	phospho-N-acetylmuramoyl-pentapeptide-transferase	30.8523	45.0099	1.46
Mflv_2986	UDP-N-acetylmuramoylalanine--D-glutamate ligase	2.94507	24.9147	8.46
Mflv_2987	cell division-specific peptidoglycan biosynthesis regulator FtsW	49.3411	44.8679	0.91
Mflv_2988	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase	42.6812	50.6531	1.19
Mflv_2989	UDP-N-acetylmuramate--L-alanine ligase	28.2157	34.5981	1.23
Mflv_2990	Polypeptide-transport-associated domain protein, FtsQ-type	29.3057	46.3534	1.58
Mflv_2991	cell division protein FtsZ	244.33	76.4717	0.31
Mflv_2992	protein of unknown function DUF152	39.7626	49.1267	1.24
Mflv_2993	alanine racemase domain protein	47.2581	31.2143	0.66
Mflv_2994	protein of unknown function DUF552	190.055	78.819	0.41
Mflv_2995	conserved hypothetical protein	112.173	100.156	0.89
Mflv_2996	DivIVA family protein	456.295	114.841	0.25
Mflv_2997	hypothetical protein	452.536	126.418	0.28

Mflv_2998	phosphoribosyltransferase	23.7188	48.5226	2.05
Mflv_2999	domain of unknown function DUF1731	25.2407	41.6391	1.65
Mflv_3000	glutamine amidotransferase class-I	77.2434	47.3197	0.61
Mflv_3001	chitinase	14.0422	37.7389	2.69
Mflv_3002	response regulator receiver and unknown domain protein	5.8117	20.6275	3.55
Mflv_3003	signal transduction histidine kinase regulating citrate/malate metabolism	17.0509	27.2292	1.60
Mflv_3004	Uncharacterized protein UPF0065	93.0538	37.8284	0.41
Mflv_3005	integral membrane protein	37.9908	83.0643	2.19
Mflv_3006	protein of unknown function DUF112, transmembrane	59.4381	35.8332	0.60
Mflv_3007	UspA domain protein	45.588	19.3488	0.42
Mflv_3008	hydrolase	18.5298	37.5726	2.03
Mflv_3009	conserved hypothetical protein	16.4514	46.6055	2.83
Mflv_3010	conserved hypothetical protein	8.88037	34.0981	3.84
Mflv_3011	transcriptional regulator, TetR family	8.00849	29.984	3.74
Mflv_3012	Rieske (2Fe-2S) domain protein	40.6776	56.4185	1.39
Mflv_3013	nitrite reductase (NAD(P)H), large subunit	11.5337	30.9242	2.68
Mflv_3014	conserved hypothetical protein	15.3642	29.2112	1.90
Mflv_3015	nitrite extrusion protein	16.3419	48.7592	2.98
Mflv_3016	sulfite reductase (NADPH) alpha subunit	8.65588	32.8148	3.79
Mflv_3017	conserved hypothetical protein	20.838	43.2423	2.08
Mflv_3018	conserved hypothetical alanine rich protein	30.5153	34.4599	1.13
Mflv_3019	prevent-host-death family protein	11.0276	36.1437	3.28
Mflv_3020	hypothetical protein	0	15.6747	Pyrene
Mflv_3021	transcriptional regulator, TetR family	135.203	61.8933	0.46
Mflv_3022	hypothetical protein	6.09689	16.9786	2.78
Mflv_3023	transposase, mutator type	48.462	57.1974	1.18
Mflv_3024	transcriptional regulator, TetR family	18.5383	92.6506	5.00
Mflv_3025	thioesterase superfamily protein	7.93622	61.3383	7.73
Mflv_3026	alpha/beta hydrolase fold protein	24.1189	35.0784	1.45
Mflv_3027	hypothetical protein	51.5373	83.9849	1.63
Mflv_3028	membrane family protein	224.288	193.801	0.86
Mflv_3029	Transport protein	116.614	139.664	1.20
Mflv_3030	metal dependent phosphohydrolase	84.3554	77.6331	0.92
Mflv_3031	NUDIX hydrolase	42.4928	89.3394	2.10
Mflv_3032	helix-turn-helix domain protein	30.5471	53.2115	1.74
Mflv_3033	regulatory protein	10.9285	69.5267	6.36
Mflv_3034	cell division protein FtsK/SpolIIE	9.41589	31.751	3.37
Mflv_3035	putative plasmid replication initiator protein	9.53443	45.5246	4.77
Mflv_3036	Recombinase	32.1647	53.2318	1.65

Mflv_3037	peptidase M20	83.6343	37.4749	0.45
Mflv_3038	phospholipid-binding protein, PBP family	192.725	58.7712	0.30
Mflv_3039	dihydroorotate oxidase A	42.2609	30.2905	0.72
Mflv_3040	conserved hypothetical protein	0	7.80603	Pyrene
Mflv_3041	lipoprotein, putative	43.9538	32.4851	0.74
Mflv_3042	conserved hypothetical protein	271.626	35.9001	0.13
Mflv_3043	putative undecaprenol kinase	80.5658	49.9942	0.62
Mflv_3044	Phosphoglycerate mutase	35.6267	37.1111	1.04
Mflv_3045	conserved hypothetical protein	377.709	55.5559	0.15
Mflv_3046	catalytic	65.6149	36.5764	0.56
Mflv_3047	inositol monophosphatase	20.0117	19.3611	0.97
Mflv_3048	transposase, IS4 family	0	0	-
Mflv_3049	cysteinyI-tRNA synthetase	117.356	57.3711	0.49
Mflv_3050	short-chain dehydrogenase/reductase SDR	56.6831	40.1298	0.71
Mflv_3051	protein of unknown function DUF1254	35.4191	42.6582	1.20
Mflv_3052	protein of unknown function DUF75	106.494	68.4852	0.64
Mflv_3053	methionine synthase (B12-dependent	64.5078	50.422	0.78
Mflv_3054	HAD-superfamily hydrolase, subfamily IA, variant 3	197.388	79.466	0.40
Mflv_3055	sugar transporter	40.9951	50.5872	1.23
Mflv_3056	phosphoribosyl-ATP pyrophosphatase	721.616	71.178	0.10
Mflv_3057	ATP phosphoribosyltransferase (homohexameric	39.2493	54.8802	1.40
Mflv_3058	17 kDa surface antigen	57.7655	37.6329	0.65
Mflv_3059	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	17.5496	55.6478	3.17
Mflv_3060	transcriptional regulator, TetR family	21.9518	53.1438	2.42
Mflv_3061	putative ribonucleoside-diphosphate reductase(beta chain)	42.3253	79.5119	1.88
Mflv_3062	conserved hypothetical protein	39.0941	51.7624	1.32
Mflv_3063	conserved hypothetical protein	23.6658	30.7924	1.30
Mflv_3064	putative RecB family exonuclease	50.9281	27.5882	0.54
Mflv_3065	tRNA (adenine-58-N(1)-) methyltransferase	82.583	56.8341	0.69
Mflv_3066	protein of unknown function DUF503	47.0977	24.3163	0.52
Mflv_3067	hypothetical protein	25.6261	33.6639	1.31
Mflv_3068	hypothetical protein	1221.61	219.313	0.18
Mflv_3069	Vesicle-fusing ATPase	1981.04	317.985	0.16
Mflv_3070	hypothetical protein	746.906	43.6013	0.06
Mflv_3071	conserved hypothetical protein	63.4723	41.4933	0.65
Mflv_3072	hypothetical protein	28.2435	43.17	1.53
Mflv_3073	transcriptional regulator, BadM/Rrf2 family	352.998	70.1234	0.20
Mflv_3074	conserved hypothetical protein	16.7842	37.6257	2.24

Mflv_3075	protein of unknown function DUF245 domain protein	74.4475	45.0642	0.61
Mflv_3076	protein of unknown function DUF797	1062	197.854	0.19
Mflv_3077	proteasome endopeptidase complex, beta component. Threonine peptidase. MEROPS family T01B	204.884	80.1634	0.39
Mflv_3078	20S proteasome, A and B subunits	96.909	66.2771	0.68
Mflv_3079	hypothetical protein	0	21.6496	Pyrene
Mflv_3080	FAD dependent oxidoreductase	25.7597	52.211	2.03
Mflv_3081	Sarcosine oxidase	52.7002	35.6677	0.68
Mflv_3082	Rieske (2Fe-2S) domain protein	39.1542	36.4219	0.93
Mflv_3083	Betaine-aldehyde dehydrogenase	36.1647	29.012	0.80
Mflv_3084	amino acid/polyamine/organocation transporter, APC superfamily	25.1467	32.3986	1.29
Mflv_3085	choline oxidase	27.6256	39.0967	1.42
Mflv_3086	cyclic nucleotide-binding protein	13.6382	23.8179	1.75
Mflv_3087	transcriptional regulator, lclR family	67.066	46.2023	0.69
Mflv_3088	protein of unknown function DUF1023	3.8796	16.0822	4.15
Mflv_3089	protein of unknown function DUF245 domain protein	177.725	67.782	0.38
Mflv_3090	Methyltransferase type 11	29.9553	29.288	0.98
Mflv_3091	transcriptional regulator	92.628	44.1255	0.48
Mflv_3092	transcriptional regulator-like protein	11.8406	33.9251	2.87
Mflv_3093	twin-arginine translocation protein, TatA/E family subunit	1863.37	468.961	0.25
Mflv_3094	Sec-independent protein translocase, TatC subunit	53.4378	62.6459	1.17
Mflv_3095	DEAD/DEAH box helicase domain protein	26.6378	35.483	1.33
Mflv_3096	conserved hypothetical protein	171.721	74.3013	0.43
Mflv_3097	5'-3' exonuclease	40.4403	30.8262	0.76
Mflv_3098	peptidase M24	38.8516	31.2801	0.81
Mflv_3099	pyridoxamine 5'-phosphate oxidase-related, FMN-binding protein	112.9	63.2271	0.56
Mflv_3100	short-chain dehydrogenase/reductase SDR	19.1731	25.9281	1.35
Mflv_3101	precorrin-6Y C5,15-methyltransferase	19.6337	41.2729	2.10
Mflv_3102	aminoglycoside phosphotransferase	10.7772	30.3828	2.82
Mflv_3103	transcriptional regulator, TetR family	28.2455	24.2112	0.86
Mflv_3104	precorrin-2 C20-methyltransferase / cobalt-factor II C20-ethyltransferase	23.0842	29.5288	1.28
Mflv_3105	precorrin-8X methylmutase	35.2536	23.5296	0.67
Mflv_3106	precorrin-3B synthase	66.3959	43.2175	0.65
Mflv_3107	Taurine dioxygenase	9.93318	26.4409	2.66
Mflv_3108	binding-protein-dependent transport systems inner membrane component	50.5706	25.5373	0.50

Mflv_3109	glycine betaine/L-proline ABC transporter,ATPase subunit	27.8275	25.0339	0.90
Mflv_3110	binding-protein-dependent transport systems inner membrane component	21.5796	43.4427	2.01
Mflv_3111	Substrate-binding region of ABC-type glycine betaine transport system	21.5708	39.8309	1.85
Mflv_3112	cobaltochelataase CobN subunit	34.1264	34.1037	1.00
Mflv_3113	pyridoxamine 5'-phosphate oxidase-related,FMN-binding protein	249.328	26.9713	0.11
Mflv_3114	pyridoxamine 5'-phosphate oxidase-related,FMN-binding protein	258.65	42.5315	0.16
Mflv_3115	FxsA cytoplasmic membrane protein	347.368	65.7012	0.19
Mflv_3116	Amidohydrolase 3	16.5318	38.0379	2.30
Mflv_3117	apolipoprotein N-acyltransferase	20.9866	42.7584	2.04
Mflv_3118	Dolichyl-phosphate beta-D-mannosyltransferase	130.017	86.8598	0.67
Mflv_3119	conserved hypothetical protein	2644.98	306.403	0.12
Mflv_3120	conserved hypothetical protein	64.0922	36.3389	0.57
Mflv_3121	transcriptional regulator, CadC	28.3816	31.5468	1.11
Mflv_3122	hypothetical protein	29.9275	35.2794	1.18
Mflv_3123	conserved hypothetical protein	60.3148	25.6172	0.42
Mflv_3124	conserved hypothetical protein	10.2286	25.9597	2.54
Mflv_3125	Carboxylesterase, type B	34.3717	31.1594	0.91
Mflv_3126	Amine oxidase (copper-containing)	16.6992	34.9112	2.09
Mflv_3127	protein of unknown function UPF0060	13.6314	12.616	0.93
Mflv_3128	conserved hypothetical protein	22.6949	45.5015	2.00
Mflv_3129	hypothetical protein	28.75	30.1532	1.05
Mflv_3130	DoxX family protein	1236.17	198.118	0.16
Mflv_3131	beta-lactamase domain protein	12.6492	30.1726	2.39
Mflv_3132	Enoyl-CoA hydratase	50.0888	26.7149	0.53
Mflv_3133	protein of unknown function DUF6, transmembrane	19.4396	70.4785	3.63
Mflv_3134	conserved hypothetical protein	2.35776	27.778	11.78
Mflv_3135	binding-protein-dependent transport systems inner membrane component	47.9761	65.7965	1.37
Mflv_3136	binding-protein-dependent transport systems inner membrane component	106.944	64.3917	0.60
Mflv_3137	extracellular solute-binding protein, family 1	64.1686	44.8168	0.70
Mflv_3138	spermidine/putrescine ABC transporter ATPase subunit	245.868	49.6435	0.20
Mflv_3139	conserved hypothetical protein	964.037	41.7707	0.04
Mflv_3140	major facilitator superfamily MFS_1	43.9989	46.176	1.05
Mflv_3141	peptidase S58, DmpA	14.2505	17.7879	1.25
Mflv_3142	TspO- and MBR-like protein	17.2389	16.1612	0.94

Mflv_3143	conserved hypothetical protein	63.3994	29.7585	0.47
Mflv_3144	Siderophore-interacting protein	31.3708	41.4359	1.32
Mflv_3145	hypothetical protein	88.6218	17.9042	0.20
Mflv_3146	alpha/beta hydrolase fold protein	38.873	44.1417	1.14
Mflv_3147	conserved hypothetical protein	29.8874	33.8656	1.13
Mflv_3148	Alcohol dehydrogenase GroES domain protein	139.517	52.6684	0.38
Mflv_3149	hypothetical protein	155.478	42.0329	0.27
Mflv_3150	conserved hypothetical protein	500.129	48.5617	0.10
Mflv_3151	conserved hypothetical protein	2577.73	158.575	0.06
Mflv_3152	Peptidoglycan-binding domain 1 protein	12.1762	16.6727	1.37
Mflv_3153	transcriptional regulator, TetR family	99.3364	36.5203	0.37
Mflv_3154	NAD-dependent epimerase/dehydratase	450.691	74.7569	0.17
Mflv_3155	protein of unknown function DUF227	33.4434	37.5051	1.12
Mflv_3156	4Fe-4S ferredoxin, iron-sulfur binding domain protein	5.85593	33.347	5.69
Mflv_3157	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	7.68887	27.2129	3.54
Mflv_3158	ABC transporter related protein	3.40198	13.3705	3.93
Mflv_3159	systems	7.43997	29.9267	4.02
Mflv_3160	ABC-type nitrate/sulfonate/bicarbonate transport systems periplasmic components-like protein	15.4787	33.9872	2.20
Mflv_3161	Glyoxalase/bleomycin resistance protein/dioxygenase	47.2186	57.3677	1.21
Mflv_3162	transcriptional regulator, ArsR family	390.068	122.5	0.31
Mflv_3163	short-chain dehydrogenase/reductase SDR	361.251	49.1982	0.14
Mflv_3164	amino acid ABC transporter membrane protein, PAAT family / amino acid ABC transporter substrate-binding protein, PAAT family	37.1293	44.7171	1.20
Mflv_3165	amino acid ABC transporter ATP-binding protein, PAAT family	29.1569	70.1801	2.41
Mflv_3166	ABC-3 protein	21.5326	42.3396	1.97
Mflv_3167	ABC transporter related protein	7.64462	26.3291	3.44
Mflv_3168	periplasmic solute binding protein	19.6933	37.6384	1.91
Mflv_3169	Allantoinase	89.7333	41.3011	0.46
Mflv_3170	permease for cytosine/purines, uracil, thiamine, allantoin	38.1058	85.0457	2.23
Mflv_3171	Asp/Glu racemase	15.6695	26.6294	1.70
Mflv_3172	Cupin 2, conserved barrel domain protein	20.6788	21.6126	1.05
Mflv_3173	conserved hypothetical protein	91.0147	38.9267	0.43
Mflv_3174	transcriptional regulator, lclR family	125.69	41.5088	0.33

Mflv_3175	pyridoxal-phosphate dependent TrpB-like enzyme	18.3499	22.9478	1.25
Mflv_3176	conserved hypothetical protein	189.437	80.7318	0.43
Mflv_3177	cutinase	36.9847	32.8824	0.89
Mflv_3178	transcriptional regulator, ArsR family	0	0	-
Mflv_3179	heavy metal translocating P-type ATPase	0	0	-
Mflv_3180	cadmium resistance transporter	13.294	27.9272	2.10
Mflv_3181	hypothetical protein	0	0	-
Mflv_3182	putative ATP/GTP-binding protein	0	0	-
Mflv_3183	Integrase, catalytic region	0	0	-
Mflv_3184	conserved hypothetical protein	0	0	-
Mflv_3185	Appr-1-p processing domain protein	29.4772	41.9666	1.42
Mflv_3186	transposase, IS4 family	0	0	-
Mflv_3187	putative integral membrane protein	87.6947	43.0916	0.49
Mflv_3188	Integrase, catalytic region	0	0	-
Mflv_3189	hypothetical protein	59.573	94.0416	1.58
Mflv_3190	hypothetical protein	0	63.7994	Pyrene
Mflv_3191	transposase, mutator type	0	0	-
Mflv_3192	conserved hypothetical protein	28.7375	48.0856	1.67
Mflv_3193	GTP-binding protein, HSR1-related protein	22.7772	76.5726	3.36
Mflv_3194	transposase IS3/IS911 family protein	60.8562	41.0481	0.67
Mflv_3195	Integrase, catalytic region	37.9735	50.8254	1.34
Mflv_3196	hypothetical protein	0	55.2306	Pyrene
Mflv_3197	McrBC 5-methylcytosine restriction system component-like protein	30.8288	59.4247	1.93
Mflv_3198	ATPase associated with various cellular activities, AAA_5	99.6296	56.3957	0.57
Mflv_3199	DEAD/DEAH box helicase domain protein	21.9583	36.8593	1.68
Mflv_3200	ATP/GTP binding protein	54.3899	43.8038	0.81
Mflv_3201	PgIZ domain	17.6164	35.5949	2.02
Mflv_3202	putative phage resistance protein	25.6838	36.2331	1.41
Mflv_3203	DNA methylase	28.5661	50.3689	1.76
Mflv_3204	serine/threonine protein kinase	14.5452	31.2674	2.15
Mflv_3205	hypothetical protein	65.7202	97.4386	1.48
Mflv_3206	hypothetical protein	179.174	102.789	0.57
Mflv_3207	transcriptional regulator, Fis family	79.8216	67.8601	0.85
Mflv_3208	hypothetical protein	1145.63	230.056	0.20
Mflv_3209	conserved hypothetical protein	0	28.7069	Pyrene
Mflv_3210	PilT protein domain protein	90.9683	70.3826	0.77
Mflv_3211	permease cadmium resistance protein-like protein	35.1992	41.5876	1.18
Mflv_3212	family	112.976	60.6247	0.54

Mflv_3213	mercuric reductase	12.5736	39.1353	3.11
Mflv_3214	Alkylmercury lyase	24.6645	25.1026	1.02
Mflv_3215	hypothetical protein	0	10.6132	Pyrene
Mflv_3216	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	4.6222	21.2786	4.60
Mflv_3217	cytochrome c biogenesis protein, transmembrane region	12.1562	41.8181	3.44
Mflv_3218	hypothetical protein	6.22224	49.9458	8.03
Mflv_3219	ATP/GTP-binding protein	22.1428	70.4498	3.18
Mflv_3220	hypothetical protein	12.1913	27.6222	2.27
Mflv_3221	Integrase, catalytic region	2.92813	15.8979	5.43
Mflv_3222	Integrase, catalytic region	26.6559	60.3401	2.26
Mflv_3223	conserved hypothetical protein	74.5884	98.088	1.32
Mflv_3224	PilT protein domain protein	86.9436	47.2847	0.54
Mflv_3225	transcriptional regulator, TetR family	44.879	45.3517	1.01
Mflv_3226	homoserine dehydrogenase, NAD-binding protein	20.2903	47.9498	2.36
Mflv_3227	YaeQ family protein	30.0166	35.9046	1.20
Mflv_3228	hypothetical protein	0	0	-
Mflv_3229	Coenzyme F420-dependent N5 N10-methylene tetrahydromethanopterin reductase and related flavin-dependent oxidoreductases-like protein	20.9193	55.4368	2.65
Mflv_3230	glucose-methanol-choline oxidoreductase	19.5209	52.8271	2.71
Mflv_3231	bifunctional deaminase-reductase domain protein	62.2232	44.4436	0.71
Mflv_3232	conserved hypothetical protein	619.463	173.829	0.28
Mflv_3233	Activator of Hsp90 ATPase 1 family protein	46.9085	67.6477	1.44
Mflv_3234	transcriptional regulator, ArsR family	196.324	58.0748	0.30
Mflv_3235	peptidylprolyl isomerase, FKBP-type	61.9987	75.5587	1.22
Mflv_3236	alpha/beta hydrolase fold protein	34.8236	50.3365	1.45
Mflv_3237	transcriptional regulator, TetR family	27.4622	26.2403	0.96
Mflv_3238	heat shock protein Hsp15	5.64457	34.0445	6.03
Mflv_3239	conserved hypothetical protein	62.7526	105.717	1.68
Mflv_3240	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	273.218	24.9037	0.09
Mflv_3241	putative esterase	323.188	187.36	0.58
Mflv_3242	hypothetical protein	0	22.9583	Pyrene
Mflv_3243	Methyltransferase type 12	28.2255	40.7666	1.44
Mflv_3244	protein of unknown function DUF664	134.026	27.4336	0.20
Mflv_3245	AMP-dependent synthetase and ligase	36.7708	33.3391	0.91
Mflv_3246	luciferase family protein	42.6868	38.0497	0.89
Mflv_3247	putative redox protein	40.9754	46.6044	1.14



Mflv_3248	conserved hypothetical protein	283.989	51.815	0.18
Mflv_3249	protein of unknown function DUF218	2540.95	96.2228	0.04
Mflv_3250	PE-PPE, C-terminal domain protein	42.6876	51.1147	1.20
Mflv_3251	transcriptional regulator, TetR family	18.8217	37.6637	2.00
Mflv_3252	conserved hypothetical protein	66.9514	44.4894	0.66
Mflv_3253	NLP/P60 protein	225.563	68.2579	0.30
Mflv_3254	thiol peroxidase (atypical 2-Cys peroxiredoxin)	814.523	114.355	0.14
Mflv_3255	protein of unknown function DUF899, thioredoxin family protein	75.4771	41.2237	0.55
Mflv_3256	thiaminase /4-amino-5-aminomethyl-2-methylpyrimidine deaminase	18.8419	23.0917	1.23
Mflv_3257	GTP cyclohydrolase II	40.267	41.2182	1.02
Mflv_3258	protein of unknown function DUF1688	17.7699	41.8616	2.36
Mflv_3259	uracil phosphoribosyltransferase	36.2939	68.4036	1.88
Mflv_3260	isocitrate lyase	45.9375	52.1772	1.14
Mflv_3261	hypothetical protein	39.3402	22.9457	0.58
Mflv_3262	hypothetical protein	13.5709	53.806	3.96
Mflv_3263	glutamine amidotransferase class-I	47.1937	48.6754	1.03
Mflv_3264	globin	37.8136	36.4068	0.96
Mflv_3265	hypothetical protein	396.668	44.0454	0.11
Mflv_3266	lipolytic enzyme, G-D-S-L family	166.229	78.8259	0.47
Mflv_3267	acyltransferase 3	41.5351	55.0413	1.33
Mflv_3268	response regulator receiver protein	30.9779	46.8016	1.51
Mflv_3269	multi-sensor signal transduction histidine kinase	29.3005	51.3545	1.75
Mflv_3270	response regulator receiver protein	382.414	69.9677	0.18
Mflv_3271	type I phosphodiesterase/nucleotide pyrophosphatase	25.734	32.0826	1.25
Mflv_3272	hypothetical protein	17.013	23.5954	1.39
Mflv_3273	protein of unknown function DUF328	36.5757	28.1095	0.77
Mflv_3274	hypothetical protein	58.8243	41.3954	0.70
Mflv_3275	conserved hypothetical protein	0	42.0432	Pyrene
Mflv_3276	hypothetical protein	37.4573	73.793	1.97
Mflv_3277	conserved hypothetical protein	15.0413	42.1102	2.80
Mflv_3278	alpha/beta hydrolase fold protein	41.788	33.2615	0.80
Mflv_3279	conserved hypothetical protein	0	30.0843	Pyrene
Mflv_3280	competence/damage-inducible protein cinA	46.6656	40.744	0.87
Mflv_3281	short-chain dehydrogenase/reductase SDR	74.837	49.5272	0.66
Mflv_3282	dihydrodipicolinate reductase	78.9517	72.2199	0.91
Mflv_3283	putative anti-sigma regulatory factor, serine/threonine protein kinase	8268.21	438.217	0.05
Mflv_3284	anti-sigma-factor antagonist	564.826	126.823	0.22

Mflv_3285	HAD-superfamily subfamily IB hydrolase	46.5215	32.4362	0.70
Mflv_3286	2-nitropropane dioxygenase, NPD	42.9293	54.8918	1.28
Mflv_3287	transcriptional regulator, TetR family	14.7626	33.8118	2.29
Mflv_3288	Formate dehydrogenase	26.8243	42.0165	1.57
Mflv_3289	hypothetical protein	5.08757	27.3689	5.38
Mflv_3290	cytochrome P450	24.9943	34.3131	1.37
Mflv_3291	conserved hypothetical protein	127.148	48.8406	0.38
Mflv_3292	transcriptional regulator, XRE family	16.944	39.3019	2.32
Mflv_3293	conserved hypothetical protein	145.397	64.9285	0.45
Mflv_3294	putative acyl-CoA synthase	15.5805	28.8451	1.85
Mflv_3295	Glucose-1-phosphate thymidyltransferase	28.166	98.9104	3.51
Mflv_3296	dTDP-glucose 4,6-dehydratase	41.0972	151.027	3.67
Mflv_3297	dTDP-4-dehydrorhamnose reductase	41.4461	29.5383	0.71
Mflv_3298	Erk/YbiS/YcfS/YnhG family protein	413.446	72.1893	0.17
Mflv_3299	conserved hypothetical protein	50.9891	21.0714	0.41
Mflv_3300	hypothetical protein	11.9731	33.8339	2.83
Mflv_3301	Pyridoxal-5'-phosphate-dependent enzyme, beta subunit	14.3224	21.3566	1.49
Mflv_3302	thioesterase superfamily protein	43.6133	25.2958	0.58
Mflv_3303	agmatinase	26.5198	25.4611	0.96
Mflv_3304	Cyclopropane-fatty-acyl-phospholipid synthase	267.992	79.9516	0.30
Mflv_3305	conserved hypothetical protein	173.316	112.973	0.65
Mflv_3306	conserved hypothetical protein	927.764	32.6773	0.04
Mflv_3307	cytochrome P450	518.661	94.9488	0.18
Mflv_3308	conserved hypothetical protein	2854.36	438.802	0.15
Mflv_3309	conserved hypothetical protein	114.934	45.2702	0.39
Mflv_3310	glycosyl transferase, group 1	11.7954	29.4843	2.50
Mflv_3311	dienelactone hydrolase	34.3479	35.1992	1.02
Mflv_3312	Pseudogene	49.0791	71.2084	1.45
Mflv_3313	conserved hypothetical protein	24.508	28.8694	1.18
Mflv_3314	Limonene-1,2-epoxide hydrolase	23.0214	37.2673	1.62
Mflv_3315	Amidohydrolase 3	47.1229	43.8108	0.93
Mflv_3316	Activator of Hsp90 ATPase 1 family protein	18.35	41.5756	2.27
Mflv_3317	transcriptional regulator, ArsR family	317.079	106.605	0.34
Mflv_3318	amidohydrolase 2	10.7908	26.4236	2.45
Mflv_3319	glutamine synthetase, catalytic region	22.3282	30.2615	1.36
Mflv_3320	Carboxymuconolactone decarboxylase	81.8166	56.6958	0.69
Mflv_3321	drug resistance transporter, EmrB/QacA subfamily	47.8652	49.4102	1.03
Mflv_3322	bacterioferritin	484.132	117.266	0.24
Mflv_3323	FadD16	188.407	95.5312	0.51

Mflv_3324	BFD domain protein (2Fe-2S)-binding domain	0	29.6329	Pyrene
Mflv_3325	Enoyl-CoA hydratase/isomerase	89.035	34.4594	0.39
Mflv_3326	conserved hypothetical protein	30.1109	40.599	1.35
Mflv_3327	protein of unknown function DUF893, YccS/YhfK	29.3094	38.4354	1.31
Mflv_3328	thioesterase superfamily protein	23.3469	59.1521	2.53
Mflv_3329	transcriptional regulator, TetR family	44.2568	56.041	1.27
Mflv_3330	integral membrane protein	8.03916	220.584	27.44
Mflv_3331	TPR repeat-containing protein	52.6262	71.102	1.35
Mflv_3332	protein	31.3336	51.0309	1.63
Mflv_3333	alpha amylase, catalytic region	115.834	134.51	1.16
Mflv_3334	conserved hypothetical protein	157.672	42.9974	0.27
Mflv_3335	putative esterase	557.87	220.099	0.39
Mflv_3336	ATP-dependent protease La	123.351	324.359	2.63
Mflv_3337	conserved hypothetical protein	189.283	63.3467	0.33
Mflv_3338	conserved hypothetical protein	28.0546	24.8459	0.89
Mflv_3339	malate dehydrogenase (NAD	11.2438	21.7288	1.93
Mflv_3340	acetyl-CoA acetyltransferase	27.353	26.7589	0.98
Mflv_3341	Fructose-6-phosphate phosphoketolase	58.7225	37.5672	0.64
Mflv_3342	Abortive infection protein	325.074	64.3659	0.20
Mflv_3343	Alcohol dehydrogenase GroES domain protein	212.802	58.6807	0.28
Mflv_3344	Transglycosylase-associated protein	233.395	113.491	0.49
Mflv_3345	Fibronectin-attachment family protein	151.304	60.6413	0.40
Mflv_3346	short-chain dehydrogenase/reductase SDR	344.365	131.21	0.38
Mflv_3347	luciferase family protein	82.1354	64.253	0.78
Mflv_3348	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	1510.53	1935.88	1.28
Mflv_3349	putative urease accessory protein	156.737	251.861	1.61
Mflv_3350	urease accessory protein UreG	30.9053	213.906	6.92
Mflv_3351	urease accessory protein UreF	23.1336	110.717	4.79
Mflv_3352	urease. Metallo peptidase. MEROPS family M38	39.2893	87.2619	2.22
Mflv_3353	urease, beta subunit	0	83.0123	Pyrene
Mflv_3354	urease, gamma subunit	138.642	47.6912	0.34
Mflv_3355	thioesterase superfamily protein	219.703	81.055	0.37
Mflv_3356	conserved hypothetical protein	19.0569	65.4964	3.44
Mflv_3357	transcriptional repressor, CopY family	871.978	406.938	0.47
Mflv_3358	peptidase M48, Ste24p	208.184	48.949	0.24
Mflv_3359	6-phosphogluconate dehydrogenase (decarboxylating)	104.242	56.4924	0.54
Mflv_3360	IMP dehydrogenase family protein	95.9726	61.9803	0.65

Mflv_3361	ABC transporter related protein	12.0018	37.4456	3.12
Mflv_3362	binding-protein-dependent transport systems inner membrane component	10.3987	36.5937	3.52
Mflv_3363	extracellular solute-binding protein, family 1	69.4191	59.5627	0.86
Mflv_3364	protein of unknown function DUF21	26.3574	44.3427	1.68
Mflv_3365	protein of unknown function DUF21	17.7025	28.8255	1.63
Mflv_3366	conserved hypothetical protein	13.4849	16.391	1.22
Mflv_3367	malate synthase G	150.046	65.0594	0.43
Mflv_3368	von Willebrand factor, type A	54.5264	46.9399	0.86
Mflv_3369	alkane 1-monoxygenase	270.182	60.9593	0.23
Mflv_3370	short-chain dehydrogenase/reductase SDR	71.2645	46.0837	0.65
Mflv_3371	PE-PPE, C-terminal domain protein	219.793	35.2651	0.16
Mflv_3372	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	237.015	102.882	0.43
Mflv_3373	Cutinase	356.603	90.0491	0.25
Mflv_3374	PE-PPE, C-terminal domain protein	89.8676	62.3927	0.69
Mflv_3375	O-methyltransferase domain protein	83.8645	83.635	1.00
Mflv_3376	cytochrome P450	48.6766	57.9475	1.19
Mflv_3377	FAD dependent oxidoreductase	120.122	111.039	0.92
Mflv_3378	PE-PPE, C-terminal domain protein	138.643	102.497	0.74
Mflv_3379	alpha/beta hydrolase fold protein	37.9347	34.1387	0.90
Mflv_3380	luciferase family protein	33.0451	40.0733	1.21
Mflv_3381	hypothetical protein	32.4943	40.7625	1.25
Mflv_3382	nitroreductase	11.5266	17.6129	1.53
Mflv_3383	conserved hypothetical protein	4.08127	41.6175	10.20
Mflv_3384	hypothetical protein	23.6621	77.7258	3.28
Mflv_3385	O-methyltransferase domain protein	65.0478	67.3643	1.04
Mflv_3386	acyltransferase PapA5	47.1962	32.0258	0.68
Mflv_3387	ABC drug efflux pump, inner membrane subunit, DrrB family	48.0507	77.4345	1.61
Mflv_3388	ABC-2 type transporter	65.4355	53.5784	0.82
Mflv_3389	daunorubicin resistance ABC transporter ATPase subunit	74.8363	64.8409	0.87
Mflv_3390	beta-ketoacyl synthase	61.7576	53.7541	0.87
Mflv_3391	beta-ketoacyl synthase	93.799	52.8184	0.56
Mflv_3392	acyl transferase domain protein	63.3998	46.7631	0.74
Mflv_3393	beta-ketoacyl synthase	31.2092	45.9161	1.47
Mflv_3394	AMP-dependent synthetase and ligase	62.5528	43.4407	0.69
Mflv_3395	acyl transferase domain protein	91.7419	71.2624	0.78
Mflv_3396	AMP-dependent synthetase and ligase	382.981	100.352	0.26
Mflv_3397	Thioesterase	181.948	92.6222	0.51
Mflv_3398	glycine dehydrogenase	61.3506	49.6912	0.81

Mflv_3399	family	561.896	137.43	0.24
Mflv_3400	protein of unknown function DUF151	386.979	157.638	0.41
Mflv_3401	family	78.0767	36.7176	0.47
Mflv_3402	FHA domain containing protein	1002.14	157.97	0.16
Mflv_3403	glycine cleavage system H protein	388.007	50.9007	0.13
Mflv_3404	protein of unknown function DUF881	18.0905	26.026	1.44
Mflv_3405	protein of unknown function DUF1290	16.4338	31.8581	1.94
Mflv_3406	protein of unknown function DUF881	19.4686	33.3423	1.71
Mflv_3407	CDP-diacylglycerol-phosphatidylglycerol phosphatidyltransferase	13.938	48.1442	3.45
Mflv_3408	protein translocase subunit secA	92.1561	42.4462	0.46
Mflv_3409	ABC transporter domain protein	19.394	35.8889	1.85
Mflv_3410	ABC transporter domain protein	44.6825	43.3213	0.97
Mflv_3411	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	9.73623	30.8517	3.17
Mflv_3412	conserved hypothetical protein	73.389	39.3045	0.54
Mflv_3413	hypothetical protein	144.306	54.2857	0.38
Mflv_3414	transcriptional regulator, TetR family	19.8976	33.3706	1.68
Mflv_3415	conserved hypothetical protein	93.4155	24.6853	0.26
Mflv_3416	conserved hypothetical protein	720.584	65.3443	0.09
Mflv_3417	FAD dependent oxidoreductase	39.2918	45.0275	1.15
Mflv_3418	sterol desaturase-related protein	122.366	65.5071	0.54
Mflv_3419	Carboxylesterase, type B	39.9964	42.9606	1.07
Mflv_3420	major facilitator superfamily MFS_1	11.5487	34.9296	3.02
Mflv_3421	4-alpha-glucanotransferase	15.6271	26.9639	1.73
Mflv_3422	protein of unknown function DUF222	8.30226	41.5396	5.00
Mflv_3423	hypothetical protein	0	120.696	Pyrene
Mflv_3424	hypothetical protein	1958.48	53.1163	0.03
Mflv_3425	conserved hypothetical protein	52.4543	67.06	1.28
Mflv_3426	ferredoxin	17.7482	25.0519	1.41
Mflv_3427	protein kinase	124.746	38.9282	0.31
Mflv_3428	NUDIX hydrolase	70.4674	45.239	0.64
Mflv_3429	conserved hypothetical protein	8.04156	29.7272	3.70
Mflv_3430	conserved hypothetical protein	95.9475	37.0322	0.39
Mflv_3431	nuclear transport factor 2	47.5375	36.5277	0.77
Mflv_3432	conserved hypothetical protein	1158.2	182.953	0.16
Mflv_3433	Pseudogene	60.5579	52.0907	0.86
Mflv_3434	membrane family protein	114.815	91.1783	0.79
Mflv_3435	Transport protein	51.741	108.27	2.09
Mflv_3436	protein of unknown function DUF732	50.2914	172.406	3.43
Mflv_3437	putative secreted protein	578.244	209.897	0.36

Mflv_3438	conserved hypothetical protein	328.601	73.0557	0.22
Mflv_3439	major facilitator superfamily MFS_1	11.4751	33.001	2.88
Mflv_3440	Acyl-CoA dehydrogenase, type 2, C-terminal domain	30.6426	45.1401	1.47
Mflv_3441	hypothetical protein	501.374	99.1891	0.20
Mflv_3442	ethanolamine:proton symporter, EAT family	74.8147	35.5772	0.48
Mflv_3443	hypothetical protein	34.5356	28.2638	0.82
Mflv_3444	RNA binding S1 domain protein	39.5468	30.4584	0.77
Mflv_3445	thiamine pyrophosphate enzyme TPP binding domain protein	37.5268	26.349	0.70
Mflv_3446	Catalase	184.256	43.9983	0.24
Mflv_3447	putative PAS/PAC sensor protein	84.9159	27.7682	0.33
Mflv_3448	phosphate uptake regulator, PhoU	435.288	65.1281	0.15
Mflv_3449	glycosyl transferase, group 1	42.4756	32.26	0.76
Mflv_3450	anti-sigma-factor antagonist	104.323	35.4017	0.34
Mflv_3451	catalase /peroxidase HPI	149.253	180.601	1.21
Mflv_3452	ferric uptake regulator, Fur family	19.5062	60.1923	3.09
Mflv_3453	conserved hypothetical protein	19.2195	45.3609	2.36
Mflv_3454	conserved hypothetical protein	77.841	61.8742	0.79
Mflv_3455	isocitrate dehydrogenase, NADP-dependent	71.1445	54.1108	0.76
Mflv_3456	hypothetical protein	160.961	65.054	0.40
Mflv_3457	conserved hypothetical protein	30.429	51.856	1.70
Mflv_3458	type I phosphodiesterase/nucleotide pyrophosphatase	28.0558	28.471	1.01
Mflv_3459	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	74.1009	27.8664	0.38
Mflv_3460	Methyltransferase type 11	35.6872	25.0555	0.70
Mflv_3461	methylenetetrahydrofolate reductase	78.3459	23.1651	0.30
Mflv_3462	cobalt transport protein	20.5321	38.7898	1.89
Mflv_3463	ABC transporter related protein	8.99968	30.8713	3.43
Mflv_3464	BioY protein	17.7748	31.9384	1.80
Mflv_3465	peptidase S15	59.1483	33.6675	0.57
Mflv_3466	short-chain dehydrogenase/reductase SDR	20.3251	29.4639	1.45
Mflv_3467	protein of unknown function DUF6, transmembrane	9.15974	36.7312	4.01
Mflv_3468	protein tyrosine phosphatase	10.4391	25.8608	2.48
Mflv_3469	arsenical-resistance protein	18.6914	49.9188	2.67
Mflv_3470	Glyoxalase/bleomycin resistance protein/dioxygenase	8.73717	40.047	4.58
Mflv_3471	transcriptional regulator, ArsR family	45.6024	30.4911	0.67
Mflv_3472	helix-turn-helix- domain containing protein	22.2994	30.5747	1.37
Mflv_3473	beta-lactamase	56.994	41.3231	0.73
Mflv_3474	transcriptional regulator, TetR family	49.7671	51.2454	1.03

Mflv_3475	cytochrome P450	13.5497	30.9704	2.29
Mflv_3476	transposase, IS204/IS1001/IS1096/IS1165 family protein	0	0	-
Mflv_3477	protein of unknown function DUF222	23.133	57.9895	2.51
Mflv_3478	diguanylate cyclase/phosphodiesterase	20.2366	42.1288	2.08
Mflv_3479	Alcohol dehydrogenase, zinc-binding domain protein	16.6772	45.2783	2.71
Mflv_3480	conserved hypothetical protein	20.0689	58.7663	2.93
Mflv_3481	beta-lactamase domain protein	23.421	40.1251	1.71
Mflv_3482	short-chain dehydrogenase/reductase SDR	21.6584	39.0392	1.80
Mflv_3483	family	158.739	54.3442	0.34
Mflv_3484	hypothetical protein	765.904	59.3947	0.08
Mflv_3485	Hemerythrin HHE cation binding domain protein	4291.93	68.8537	0.02
Mflv_3486	transcriptional regulator	15485.9	65.692	0.00
Mflv_3487	conserved hypothetical protein	452.863	35.6341	0.08
Mflv_3488	multicopper oxidase, type 3	255.813	31.8112	0.12
Mflv_3489	tRNA-Pro	104.292	30.439	0.29
Mflv_3490	deoxyribodipyrimidine photolyase-related protein	47.9636	44.452	0.93
Mflv_3491	protein of unknown function DUF81	204.328	46.9418	0.23
Mflv_3492	protein of unknown function DUF81	35.1921	51.7112	1.47
Mflv_3493	small GTP-binding protein	49.206	44.3486	0.90
Mflv_3494	cytidylate kinase	44.0417	60.4068	1.37
Mflv_3495	ribosomal large subunit Pseudogeneuridine synthase B	50.7611	48.4842	0.96
Mflv_3496	condensin subunit ScpB	43.396	30.1274	0.69
Mflv_3497	condensin subunit ScpA	18.1517	38.5506	2.12
Mflv_3498	Cobyrinic acid a,c-diamide synthase	79.7809	30.4287	0.38
Mflv_3499	Catechol O-methyltransferase	842.432	115.816	0.14
Mflv_3500	tyrosine recombinase XerD	47.2604	57.3045	1.21
Mflv_3501	NUDIX hydrolase	47.8171	30.5961	0.64
Mflv_3502	CTP synthase	132.618	69.3002	0.52
Mflv_3503	conserved hypothetical protein	133.654	93.7402	0.70
Mflv_3504	conserved hypothetical protein	238.787	97.497	0.41
Mflv_3505	Glyoxalase/bleomycin resistance protein/dioxygenase	984.547	359.618	0.37
Mflv_3506	transcriptional regulator, TetR family	29.4726	55.4827	1.88
Mflv_3507	DNA replication and repair protein RecN	17.798	31.7712	1.79
Mflv_3508	NAD(+) kinase	39.4531	34.9237	0.89
Mflv_3509	hemolysin A	27.0104	59.1313	2.19
Mflv_3510	conserved hypothetical protein	0	54.2523	Pyrene
Mflv_3511	HAD-superfamily hydrolase, subfamily IIA	23.4659	29.6959	1.27

Mflv_3512	conserved hypothetical protein	32.5004	30.5132	0.94
Mflv_3513	tyrosyl-tRNA synthetase	50.8497	31.0517	0.61
Mflv_3514	DNA-3-methyladenine glycosylase	2.92916	36.6953	12.53
Mflv_3515	protein of unknown function DUF343	0	71.4744	Pyrene
Mflv_3516	hypothetical protein	629.936	56.0763	0.09
Mflv_3517	AMP-dependent synthetase and ligase	46.7178	36.4983	0.78
Mflv_3518	ABC transporter related protein	22.5712	26.535	1.18
Mflv_3519	hypothetical protein	16.067	37.7784	2.35
Mflv_3520	hypothetical protein	18.1431	26.8053	1.48
Mflv_3521	conserved hypothetical protein	14.9888	4.88812	0.33
Mflv_3522	hypothetical protein	58.5307	31.6379	0.54
Mflv_3523	argininosuccinate lyase	17.8364	26.2608	1.47
Mflv_3524	Argininosuccinate synthase	36.2983	43.8387	1.21
Mflv_3525	transcriptional regulator, ArgR family	14.3666	29.081	2.02
Mflv_3526	ornithine carbamoyltransferase	27.5015	32.8414	1.19
Mflv_3527	aminotransferase	25.8018	41.4099	1.60
Mflv_3528	N-acetylglutamate kinase	16.8397	37.7368	2.24
Mflv_3529	glutamate N-acetyltransferase	31.9957	35.5828	1.11
Mflv_3530	N-acetyl-gamma-glutamyl-phosphate reductase	27.2027	23.1111	0.85
Mflv_3531	FAD dependent oxidoreductase	15.2779	20.0578	1.31
Mflv_3532	phenylalanyl-tRNA synthetase beta subunit	36.2656	37.5623	1.04
Mflv_3533	subunit	41.4968	48.5969	1.17
Mflv_3534	conserved hypothetical protein	17.1333	30.931	1.81
Mflv_3535	putative adenylate/guanylate cyclase	22.1914	41.3114	1.86
Mflv_3536	conserved hypothetical protein	44.7021	30.6399	0.69
Mflv_3537	acyl-CoA dehydrogenase domain protein	62.5297	52.5111	0.84
Mflv_3538	short-chain dehydrogenase/reductase SDR	38.7831	37.3809	0.96
Mflv_3539	tRNA/rRNA methyltransferase (SpoU)	23.1915	44.0883	1.90
Mflv_3540	LSU ribosomal protein L20P	462.579	122.504	0.26
Mflv_3541	LSU ribosomal protein L35P	0	57.6726	Pyrene
Mflv_3542	bacterial translation initiation factor 3(bIF-3)	573.321	257.506	0.45
Mflv_3543	conserved hypothetical protein	67.6762	42.2935	0.62
Mflv_3544	lysyl-tRNA synthetase	15.5017	37.9095	2.45
Mflv_3545	putative esterase	7.23588	40.6951	5.62
Mflv_3546	conserved hypothetical protein	610.132	106.903	0.18
Mflv_3547	conserved hypothetical protein	52.8694	45.0485	0.85
Mflv_3548	Excinuclease ABC subunit A	77.958	60.0459	0.77
Mflv_3549	beta-lactamase domain protein	62.2664	36.2883	0.58
Mflv_3550	fructose-bisphosphate aldolase	108.009	45.0381	0.42
Mflv_3551	UspA domain protein	783.617	138.939	0.18



Mflv_3552	cutinase	31.9959	66.5829	2.08
Mflv_3553	small multidrug resistance protein	65.5075	41.2022	0.63
Mflv_3554	small multidrug resistance protein	25.5891	82.6006	3.23
Mflv_3555	hypothetical protein	530.17	54.3249	0.10
Mflv_3556	Excinuclease ABC subunit B	223.617	103.108	0.46
Mflv_3557	protein of unknown function DUF402	1.7367	11.3605	6.54
Mflv_3558	conserved hypothetical protein	58.8557	70.7233	1.20
Mflv_3559	dephospho-CoA kinase	45.6792	28.8705	0.63
Mflv_3560	putative secreted protein	22.0188	42.837	1.95
Mflv_3561	SSU ribosomal protein S1P	896.554	500.692	0.56
Mflv_3562	conserved hypothetical protein	18.9811	41.6683	2.20
Mflv_3563	conserved hypothetical protein	27.1978	34.7394	1.28
Mflv_3564	DNA polymerase I	85.1996	45.8957	0.54
Mflv_3565	transcriptional regulator, LysR family	5.42288	20.6666	3.81
Mflv_3566	conserved hypothetical protein	14.6998	38.943	2.65
Mflv_3567	protein of unknown function DUF35	87.9529	42.9858	0.49
Mflv_3568	lipid-transfer protein	12.8267	35.7826	2.79
Mflv_3569	protein of unknown function DUF167	131.31	32.8364	0.25
Mflv_3570	amino acid/amide ABC transporter ATP-binding protein 2, HAAT family	31.9277	55.581	1.74
Mflv_3571	amino acid/amide ABC transporter ATP-binding protein 1, HAAT family	23.3905	27.998	1.20
Mflv_3572	amino acid/amide ABC transporter membrane protein 2, HAAT family	25.3457	58.2608	2.30
Mflv_3573	amino acid/amide ABC transporter membrane protein 1, HAAT family	21.5521	29.5572	1.37
Mflv_3574	amino acid/amide ABC transporter substrate-binding protein, HAAT family	65.76	71.1259	1.08
Mflv_3575	response regulator receiver and ANTAR domain protein	89.4064	116.54	1.30
Mflv_3576	putative adenylate/guanylate cyclase	74.1978	1066.19	14.37
Mflv_3577	Ferritin, Dps family protein	463.168	5641.7	12.18
Mflv_3578	hypothetical protein	9.96685	27.7403	2.78
Mflv_3579	two component transcriptional regulator, LuxR family	26.2473	37.6475	1.43
Mflv_3580	putative signal transduction histidine kinase	6.87397	25.24	3.67
Mflv_3581	amino acid ABC transporter ATP-binding protein, PAAT family	71.3742	55.4182	0.78
Mflv_3582	amino acid ABC transporter membrane protein, PAAT family	47.9358	65.2739	1.36
Mflv_3583	amino acid ABC transporter substrate-binding protein, PAAT family	86.1594	78.9883	0.92
Mflv_3584	protein of unknown function DUF308, membrane	118.485	77.4599	0.65

Mflv_3585	cytochrome bd quinol oxidase subunit 1 apoprotein	1533.19	58.8437	0.04
Mflv_3586	cytochrome bd quinol oxidase subunit 2 apoprotein	982.396	70.292	0.07
Mflv_3587	ABC transporter, transmembrane region, type 1	349.793	36.0966	0.10
Mflv_3588	ABC transporter, transmembrane region, type 1	76.0067	46.9682	0.62
Mflv_3589	conserved hypothetical protein	75.3636	39.6914	0.53
Mflv_3590	acyl-CoA thioesterase	65.1659	54.8744	0.84
Mflv_3591	pyruvate kinase	368.351	85.3462	0.23
Mflv_3592	glutamate synthase (NADH) small subunit	12.2769	38.8315	3.16
Mflv_3593	glutamate synthase (NADH) large subunit	15.4094	48.6606	3.16
Mflv_3594	conserved hypothetical protein	57.1219	94.5806	1.66
Mflv_3595	TM2 domain containing protein	188.691	82.5073	0.44
Mflv_3596	protein of unknown function DUF222	22.2306	39.1152	1.76
Mflv_3597	prolipoprotein diacylglycerol transferase	53.1239	82.6258	1.56
Mflv_3598	tryptophan synthase, alpha chain	80.2417	72.9351	0.91
Mflv_3599	tryptophan synthase, beta chain	85.3922	46.2464	0.54
Mflv_3600	indole-3-glycerol phosphate synthase	163.818	37.8592	0.23
Mflv_3601	trp region conserved hypothetical membrane protein	3.6163	26.2407	7.26
Mflv_3602	anthranilate synthase, component I	71.0282	30.1336	0.42
Mflv_3603	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	155.509	53.52	0.34
Mflv_3604	ABC transporter related protein	42.1597	35.3449	0.84
Mflv_3605	transposase, IS4 family	0	0	-
Mflv_3606	phosphoribosyl-AMP cyclohydrolase	35.4381	111.225	3.14
Mflv_3607	imidazoleglycerol phosphate synthase, cyclase subunit	29.9185	32.8047	1.10
Mflv_3608	Inositol-phosphate phosphatase	38.4422	37.524	0.98
Mflv_3609	bifunctional HisA /TrpF protein	53.9765	47.6257	0.88
Mflv_3610	imidazole glycerol phosphate synthase subunit hisH	103.98	51.5036	0.50
Mflv_3611	Imidazoleglycerol-phosphate dehydratase	155.277	61.786	0.40
Mflv_3612	histidinol phosphate aminotransferase apoenzyme	85.0302	31.1161	0.37
Mflv_3613	histidinol dehydrogenase	44.1734	40.9456	0.93
Mflv_3614	conserved hypothetical protein	578.961	279.326	0.48
Mflv_3615	Lysine exporter protein (LYSE/YGGA)	137.404	75.51	0.55
Mflv_3616	putative alanine and proline rich membrane protein	33.0567	37.6594	1.14
Mflv_3617	nicotinate-nucleotide pyrophosphorylase	24.9674	42.0295	1.68
Mflv_3618	L-aspartate oxidase	23.4918	30.9407	1.32

Mflv_3619	quinolinate synthetase A	53.4991	57.6501	1.08
Mflv_3620	NUDIX hydrolase	31.3742	43.94	1.40
Mflv_3621	Triacylglycerol lipase	58.1517	36.0496	0.62
Mflv_3622	putative transmembrane protein	9.92935	27.0731	2.73
Mflv_3623	conserved hypothetical protein	0	27.3643	Pyrene
Mflv_3624	biotin synthase	34.9854	40.8321	1.17
Mflv_3625	transcriptional regulator, TetR family	53.7833	26.569	0.49
Mflv_3626	conserved hypothetical protein	27.1182	42.623	1.57
Mflv_3627	dethiobiotin synthase	3.28063	21.4412	6.54
Mflv_3628	8-amino-7-oxononanoate synthase	18.8923	25.915	1.37
Mflv_3629	oxononanoate aminotransferase apoenzyme	31.8048	27.1828	0.85
Mflv_3630	acyltransferase 3	37.8543	37.3716	0.99
Mflv_3631	isoamylase	87.2944	50.7905	0.58
Mflv_3632	maltooligosyl trehalose synthase	53.1868	37.294	0.70
Mflv_3633	maltooligosyl trehalose hydrolase	42.9025	43.3469	1.01
Mflv_3634	L-threonine ammonia-lyase	67.4443	46.1639	0.68
Mflv_3635	conserved hypothetical protein	1103.9	4886.28	4.43
Mflv_3636	DNA polymerase III, alpha subunit	83.1067	62.1353	0.75
Mflv_3637	transcriptional regulator, TetR family	75.134	23.3908	0.31
Mflv_3638	RarD protein, DMT superfamily transporter	12.3524	33.262	2.69
Mflv_3639	ribosomal large subunit Pseudogeneuridine synthase D	40.4961	37.5847	0.93
Mflv_3640	lipoprotein signal peptidase	207.661	51.924	0.25
Mflv_3641	Asparaginase/glutaminase	9.0548	16.0393	1.77
Mflv_3642	DNA-directed DNA polymerase	14.3813	27.6672	1.92
Mflv_3643	RNA-binding S4 domain protein	0	19.3935	Pyrene
Mflv_3644	Isoleucyl-tRNA synthetase	27.2391	47.5604	1.75
Mflv_3645	conserved hypothetical protein	967.296	299.901	0.31
Mflv_3646	GP55 protein	208.629	75.8843	0.36
Mflv_3647	beta-lactamase	1918.48	99.1225	0.05
Mflv_3648	methylmalonyl-CoA mutase metallochaperone MeaB	48.6019	48.198	0.99
Mflv_3649	methylmalonyl-CoA mutase	97.1736	57.7129	0.59
Mflv_3650	methylmalonyl-CoA mutase, beta subunit	135.975	41.6752	0.31
Mflv_3651	conserved hypothetical protein	58.5531	62.1717	1.06
Mflv_3652	hypothetical protein	14.6586	42.7421	2.92
Mflv_3653	SPFH domain, Band 7 family protein	75.4621	55.7818	0.74
Mflv_3654	protein of unknown function DUF107	383.418	52.4964	0.14
Mflv_3655	conserved hypothetical protein	58.4722	64.2524	1.10
Mflv_3656+B3694	ferrochelataase	44.1397	73.6832	1.67

Mflv_3657	Enoyl-[acyl-carrier-protein] reductase (NADH)	68.2975	43.1597	0.63
Mflv_3658	3-oxoacyl-[acyl-carrier-protein] reductase	97.9419	47.4019	0.48
Mflv_3659	von Willebrand factor, type A	52.7849	59.7338	1.13
Mflv_3660	conserved hypothetical protein	63.9643	51.2961	0.80
Mflv_3661	ATPase associated with various cellular activities, AAA_3	332.959	92.8005	0.28
Mflv_3662	NLP/P60 protein	61.9784	39.084	0.63
Mflv_3663	NLP/P60 protein	121.989	48.0663	0.39
Mflv_3664	conserved hypothetical protein	73.819	40.4618	0.55
Mflv_3665	aconitase	142.13	131.674	0.93
Mflv_3666	transcriptional regulator, TetR family	263.053	113.359	0.43
Mflv_3667	conserved hypothetical protein	431.54	40.7655	0.09
Mflv_3668	ABC transporter related protein	55.5181	75.7264	1.36
Mflv_3669	Enoyl-CoA hydratase	325.828	359.398	1.10
Mflv_3670	thioredoxin	3434.28	670.748	0.20
Mflv_3671	conserved hypothetical protein	512.152	197.246	0.39
Mflv_3672	protein of unknown function DUF59	180.488	101.07	0.56
Mflv_3673	SUF system FeS assembly protein, NifU family	167.694	97.3636	0.58
Mflv_3674	cysteine desulfurase	170.819	149.57	0.88
Mflv_3675	Iron-regulated ABC transporter ATPase subunit SufC	287.998	183.486	0.64
Mflv_3676	Iron-regulated ABC transporter permease protein SufD	382.584	168.245	0.44
Mflv_3677	Iron-regulated ABC transporter membrane component SufB	1270.83	195.94	0.15
Mflv_3678	transcriptional regulator	7147.12	127.348	0.02
Mflv_3679	conserved hypothetical protein	37.0029	37.43	1.01
Mflv_3680	ABC transporter related protein	47.3295	32.8461	0.69
Mflv_3681	ABC drug efflux pump, inner membrane subunit, DrrB family	28.4262	35.4438	1.25
Mflv_3682	conserved hypothetical protein	13.1401	24.8633	1.89
Mflv_3683	transcriptional regulator, TetR family	20.158	33.907	1.68
Mflv_3684	cytochrome oxidase assembly	165.039	45.715	0.28
Mflv_3685	conserved hypothetical protein	78.2165	36.1935	0.46
Mflv_3686	Alcohol dehydrogenase, zinc-binding domain protein	112.97	73.9108	0.65
Mflv_3687	protein of unknown function DUF1214	35.5694	110.288	3.10
Mflv_3688	Integrase, catalytic region	0	0	-
Mflv_3689	transposase IS3/IS911 family protein	0	0	-
Mflv_3690	protein of unknown function DUF1254	9.85295	31.2105	3.17
Mflv_3691	protoheme IX farnesyltransferase	212.173	88.8852	0.42

Mflv_3692	transketolase	232.057	80.8526	0.35
Mflv_3693	transaldolase	340.675	115.489	0.34
Mflv_3694	glucose-6-phosphate 1-dehydrogenase	102.157	72.4299	0.71
Mflv_3695	OpcA protein	67.7501	44.3216	0.65
Mflv_3696	6-phosphogluconolactonase	58.4137	70.7541	1.21
Mflv_3697	conserved hypothetical protein	38.3324	37.921	0.99
Mflv_3698	Pseudogene	2.06542	11.2485	5.45
Mflv_3699	Pseudogene	0	0	-
Mflv_3700	Integrase, catalytic region	0	0	-
Mflv_3701	protein of unknown function DUF222	70.8945	63.1751	0.89
Mflv_3702	protein of unknown function DUF162	21.6532	40.8865	1.89
Mflv_3703	iron-sulfur cluster binding protein	19.0506	33.2631	1.75
Mflv_3704	protein of unknown function DUF224, cysteine-rich region domain protein	22.748	44.0767	1.94
Mflv_3705	conserved hypothetical protein	198.516	56.5153	0.28
Mflv_3706	Phosphoenolpyruvate carboxylase	26.9893	44.7504	1.66
Mflv_3707	preprotein translocase, SecE subunit	740.438	89.3636	0.12
Mflv_3708	triosephosphate isomerase	95.9668	57.1219	0.60
Mflv_3709	phosphoglycerate kinase	107.967	85.7035	0.79
Mflv_3710	glyceraldehyde-3-phosphate dehydrogenase	217.236	93.5041	0.43
Mflv_3711	amino acid ABC transporter substrate-binding protein, PAAT family	29.5352	51.6666	1.75
Mflv_3712	protein of unknown function DUF199	52.0151	48.305	0.93
Mflv_3713	protein of unknown function UPF0052 and CofD	26.4311	71.4726	2.70
Mflv_3714	Uncharacterized P-loop ATPase protein UPF0042	52.4456	62.2789	1.19
Mflv_3715	Excinuclease ABC subunit C	74.8552	64.439	0.86
Mflv_3716	gamma-glutamyltransferase 1. Threonine peptidase. MEROPS family T03	19.0386	61.4134	3.23
Mflv_3717	conserved hypothetical protein	126.83	204.842	1.62
Mflv_3718	6,7-dimethyl-8-ribityllumazine synthase	198.711	463.018	2.33
Mflv_3719	GTP cyclohydrolase II	311.959	1119.44	3.59
Mflv_3720	PE-PPE, C-terminal domain protein	18.6248	39.9656	2.15
Mflv_3721	riboflavin synthase, alpha subunit	92.5858	30.705	0.33
Mflv_3722	putative dehydrogenase protein	467.55	48.1777	0.10
Mflv_3723	alpha amylase, catalytic region	68.4742	48.2911	0.71
Mflv_3724	protein of unknown function DUF1396	79.0356	56.2331	0.71
Mflv_3725	major facilitator superfamily MFS_1	94.2297	261.137	2.77
Mflv_3726	hypothetical protein	79.508	177.042	2.23
Mflv_3727	riboflavin biosynthesis protein RibD	16.7297	37.672	2.25
Mflv_3728	ribulose-5-phosphate 3-epimerase	74.0518	26.9408	0.36

Mflv_3729	Fmu (Sun) domain protein	5.35703	18.5043	3.45
Mflv_3730	methionyl-tRNA formyltransferase	8.87621	22.084	2.49
Mflv_3731	LemA family protein	35.2021	79.4809	2.26
Mflv_3732	conserved hypothetical protein	26.1893	42.055	1.61
Mflv_3733	replication restart DNA helicase PriA	1.94052	22.5351	11.61
Mflv_3734	YhhN family protein	31.5977	57.3121	1.81
Mflv_3735	Alpha/beta hydrolase fold-3 domain protein	27.386	31.4213	1.15
Mflv_3736	Cyclohexanone monooxygenase	25.8019	38.4273	1.49
Mflv_3737	methionine adenosyltransferase	136.457	104.784	0.77
Mflv_3738	Phosphopantothenate-cysteine ligase /Phosphopantothenoylcysteine decarboxylase	65.9759	87.0703	1.32
Mflv_3739	DNA-directed RNA polymerase, omega subunit	39.3687	144.34	3.67
Mflv_3740	guanylate kinase	205.565	83.1072	0.40
Mflv_3741	MihF	1066.44	183.378	0.17
Mflv_3742	orotidine 5'-phosphate decarboxylase	9.90265	25.3077	2.56
Mflv_3743	subunit	35.6207	39.0581	1.10
Mflv_3744	subunit	35.1603	42.0272	1.20
Mflv_3745	putative export or membrane protein	20.7579	28.8394	1.39
Mflv_3746	dihydroorotase	15.1561	27.4752	1.81
Mflv_3747	aspartate carbamoyltransferase	33.0347	39.4661	1.19
Mflv_3748	Uracil phosphoribosyltransferase	83.385	30.6984	0.37
Mflv_3749	beta-lactamase	42.1473	39.5361	0.94
Mflv_3750	HNH nuclease	20.9696	45.302	2.16
Mflv_3751	NusB antitermination factor	52.9933	73.703	1.39
Mflv_3752	translation elongation factor P (EF-P)	255.951	123.741	0.48
Mflv_3753	peptidase M24	56.1052	31.6427	0.56
Mflv_3754	conserved hypothetical protein	194.305	57.9156	0.30
Mflv_3755	hypothetical protein	29.1279	32.9713	1.13
Mflv_3756	3-dehydroquinate synthase	38.632	42.513	1.10
Mflv_3757	shikimate kinase	26.6308	30.8991	1.16
Mflv_3758	chorismate synthase	58.0391	53.62	0.92
Mflv_3759	peptidase A24A, prepilin type IV	14.8066	29.6275	2.00
Mflv_3760	shikimate dehydrogenase	15.4597	26.5851	1.72
Mflv_3761	aminodeoxychorismate lyase	34.5537	41.7047	1.21
Mflv_3762	Holliday junction resolvase YqgF	36.1422	41.3003	1.14
Mflv_3763	alanyl-tRNA synthetase	99.3345	44.125	0.44
Mflv_3764	protein of unknown function UPF0047	122.09	24.9152	0.20
Mflv_3765	hypothetical protein	171418	941.904	0.01
Mflv_3766	Recombination protein MgsA	647.754	55.8412	0.09

Mflv_3767	conserved hypothetical protein	130.547	36.753	0.28
Mflv_3768	conserved hypothetical protein	238.607	37.7047	0.16
Mflv_3769	protein	1434.54	42.6305	0.03
Mflv_3770	protein of unknown function DUF404	16.9473	24.2711	1.43
Mflv_3771	protein	14.7456	28.7154	1.95
Mflv_3772	conserved hypothetical protein 341	30.936	25.6	0.83
Mflv_3773	transcriptional regulator, DeoR family	22.0178	29.3884	1.33
Mflv_3774	carbohydrate kinase, FGGY	11.2503	25.0131	2.22
Mflv_3775	carbohydrate ABC transporter substrate-binding protein, CUT1 family	20.8107	28.6233	1.38
Mflv_3776	carbohydrate ABC transporter membrane protein 1,CUT1 family	14.1158	38.6827	2.74
Mflv_3777	carbohydrate ABC transporter membrane protein 2,CUT1 family	16.1415	44.6439	2.77
Mflv_3778	carbohydrate ABC transporter ATP-binding protein, CUT1 family	11.2093	33.06	2.95
Mflv_3779	short-chain dehydrogenase/reductase SDR	6.83009	22.5837	3.31
Mflv_3780	photosystem I assembly BtpA	10.8089	23.896	2.21
Mflv_3781	transcriptional regulator, HxlR family	15.0775	22.6291	1.50
Mflv_3782	acetyl-CoA acetyltransferase	14.3367	23.3784	1.63
Mflv_3783	conserved hypothetical protein	47.1776	38.6588	0.82
Mflv_3784	putative conserved transmembrane protein	27.8857	66.0958	2.37
Mflv_3785	aspartyl-tRNA synthetase	65.2828	57.1005	0.87
Mflv_3786	conserved hypothetical protein	12.3636	26.3564	2.13
Mflv_3787	Carboxylesterase, type B	16.1595	24.5769	1.52
Mflv_3788	protein of unknown function, zinc metallopeptidase putative	57.4812	37.3841	0.65
Mflv_3789	protein of unknown function DUF885	13.4635	37.1615	2.76
Mflv_3790	conserved hypothetical protein	19.0981	38.3843	2.01
Mflv_3791	transcriptional regulator, TetR family	36.0756	51.0133	1.41
Mflv_3792	amidohydrolase 2	36.2943	37.5223	1.03
Mflv_3793	acyl-CoA dehydrogenase domain protein	18.8786	34.441	1.82
Mflv_3794	acyl-CoA dehydrogenase domain protein	9.91107	30.4852	3.08
Mflv_3795	Radical SAM domain protein	15.8196	30.5121	1.93
Mflv_3796	putative helicase	42.6781	43.1499	1.01
Mflv_3797	hypothetical protein	3689.11	200.853	0.05
Mflv_3798	urea-binding protein	34.8623	36.0474	1.03
Mflv_3799	urea ABC transporter membrane protein	16.5099	59.6347	3.61
Mflv_3800	urea ABC transporter membrane protein	10.2072	61.6874	6.04
Mflv_3801	urea ABC transporter ATP-binding protein	12.2638	35.0172	2.86
Mflv_3802	urea ABC transporter ATP-binding protein	11.9963	21.3532	1.78
Mflv_3803	hypothetical protein	37.081	47.5969	1.28

Mflv_3804	conserved hypothetical protein	25.535	76.1495	2.98
Mflv_3805	RNA polymerase, sigma 28 subunit, FliA/WhiG family	455.707	78.7255	0.17
Mflv_3806	conserved hypothetical protein	181.682	50.2283	0.28
Mflv_3807	conserved hypothetical protein	1292.58	47.6101	0.04
Mflv_3808	hypothetical protein	139.284	32.8838	0.24
Mflv_3809	histidyl-tRNA synthetase	33.7582	40.5783	1.20
Mflv_3810	beta-lactamase domain protein	60.2664	34.5478	0.57
Mflv_3811	peptidyl-prolyl cis-trans isomerase, cyclophilin type	76.2613	43.3855	0.57
Mflv_3812	(p)ppGpp synthetase I, SpoT/RelA	164.76	74.7709	0.45
Mflv_3813	Adenine phosphoribosyltransferase	39.1041	55.1079	1.41
Mflv_3814	extracellular solute-binding protein, family 5	46.3576	50.3562	1.09
Mflv_3815	protein translocase subunit secF	109.413	126.981	1.16
Mflv_3816	protein-export membrane protein SecD	91.3844	97.8455	1.07
Mflv_3817	protein translocase subunit yajC	462.637	228.297	0.49
Mflv_3818	4-aminobutyrate aminotransferase apoenzyme	37.4754	33.4115	0.89
Mflv_3819	aldehyde dehydrogenase	186.687	40.0996	0.21
Mflv_3820	hypothetical protein	411.066	120.426	0.29
Mflv_3821	hypothetical protein	849.749	141.572	0.17
Mflv_3822	diguanylate cyclase	26.1411	58.7352	2.25
Mflv_3823	protein of unknown function DUF1304	41.8045	27.1119	0.65
Mflv_3824	RuvB	18.125	34.2704	1.89
Mflv_3825	DNA recombination protein RuvA, domain I	38.2592	43.8108	1.15
Mflv_3826	Holliday junction endonuclease RuvC	70.5161	43.1518	0.61
Mflv_3827	conserved hypothetical protein	63.1948	61.0561	0.97
Mflv_3828	protein of unknown function DUF28	321.496	46.3446	0.14
Mflv_3829	acyl-CoA dehydrogenase domain protein	525.562	73.2075	0.14
Mflv_3830	pyridoxal phosphate synthase yaaE subunit	26.1636	32.2057	1.23
Mflv_3831	acyl-CoA thioesterase II	71.7442	49.3996	0.69
Mflv_3832	pyridoxal phosphate synthase yaaD subunit	283.34	75.5619	0.27
Mflv_3833	NUDIX hydrolase	6.74124	36.9674	5.48
Mflv_3834	Phosphatidylinositol alpha-mannosyltransferase	23.6794	34.3337	1.45
Mflv_3835	lipid A biosynthesis acyltransferase	28.099	31.0686	1.11
Mflv_3836	CDP-diacylglycerol inositol 3-phosphatidyltransferase	38.7144	28.5424	0.74
Mflv_3837	histidine triad (HIT) protein	33.8954	94.8611	2.80
Mflv_3838	Ser-tRNA(Thr) hydrolase	49.861	47.0141	0.94
Mflv_3839	conserved hypothetical protein	26.8226	41.6177	1.55
Mflv_3840	thioesterase superfamily protein	31.4735	23.6588	0.75



Mflv_3841	conserved hypothetical protein	44.1456	51.4397	1.17
Mflv_3842	response regulator receiver and ANTAR domain protein	702.352	83.6566	0.12
Mflv_3843	hypothetical protein	44.5053	52.7333	1.18
Mflv_3844	GAF sensor signal transduction histidine kinase	27.8804	21.0444	0.75
Mflv_3845	conserved hypothetical protein	1047.74	41.3948	0.04
Mflv_3846	UspA domain protein	1236.7	28.1009	0.02
Mflv_3847	two component transcriptional regulator, LuxR family	1194.34	32.8634	0.03
Mflv_3848	conserved hypothetical protein	264.673	27.827	0.11
Mflv_3849	alpha amylase, catalytic region	28.8631	25.3309	0.88
Mflv_3850	hypothetical protein	50.1288	21.3806	0.43
Mflv_3851	carbohydrate ABC transporter substrate-binding protein, CUT1 family	38.3026	31.9886	0.84
Mflv_3852	carbohydrate ABC transporter membrane protein 1, CUT1 family	64.8984	32.7506	0.50
Mflv_3853	carbohydrate ABC transporter membrane protein 2,CUT1 family	67.7072	60.7399	0.90
Mflv_3854	carbohydrate ABC transporter ATP-binding protein, CUT1 family	72.4518	39.347	0.54
Mflv_3855	conserved hypothetical protein	33.025	31.609	0.96
Mflv_3856	alpha/beta hydrolase fold protein	71.246	33.9224	0.48
Mflv_3857	putative PAS/PAC sensor protein	21.3218	27.2959	1.28
Mflv_3858	DNA binding domain, excisionase family	55.6527	18.0304	0.32
Mflv_3859	molybdenum ABC transporter, periplasmic molybdate-binding protein	14.6201	20.2174	1.38
Mflv_3860	NifC-like ABC-type porter	14.7058	31.6663	2.15
Mflv_3861	ABC transporter related protein	1.90374	17.8718	9.39
Mflv_3862	acyltransferase 3	19.2593	36.9272	1.92
Mflv_3863	acetoacetyl-CoA synthase	30.4435	49.0242	1.61
Mflv_3864	PE-PPE, C-terminal domain protein	56.2569	33.6	0.60
Mflv_3865	ribonuclease BN	264.326	81.4136	0.31
Mflv_3866	hypothetical protein	154.384	53.4511	0.35
Mflv_3867	FAD dependent oxidoreductase	210.351	43.97	0.21
Mflv_3868	NAD-dependent epimerase/dehydratase	63.5336	37.5106	0.59
Mflv_3869	putative ribonuclease BN	408.189	54.4167	0.13
Mflv_3870	membrane protein-like protein	63.3804	61.9271	0.98
Mflv_3871	RNA polymerase, sigma 28 subunit, FliA/WhiG family	112.91	129.353	1.15
Mflv_3872	RNA polymerase, sigma 37 subunit, RpsB/SigB	1858.22	92.8762	0.05
Mflv_3873	conserved hypothetical protein	111.559	40.5715	0.36
Mflv_3874	Pseudogene	31.7766	23.3383	0.73

Mflv_3875	conserved hypothetical protein	20.808	21.5131	1.03
Mflv_3876	putative sugar transferase	23.6211	35.5927	1.51
Mflv_3877	transcriptional regulator, TetR family	7.81279	24.008	3.07
Mflv_3878	response regulator receiver protein	173.129	64.0109	0.37
Mflv_3879	anti-sigma-factor antagonist	203.756	116.672	0.57
Mflv_3880	conserved hypothetical protein	2328.36	90.5575	0.04
Mflv_3881	CsbD family protein	678.282	45.3317	0.07
Mflv_3882	periplasmic binding protein	44.5352	36.1451	0.81
Mflv_3883	transport system permease protein	12.2685	42.6398	3.48
Mflv_3884	ABC transporter related protein	14.9004	24.3903	1.64
Mflv_3885	hypothetical protein	92.3983	41.5688	0.45
Mflv_3886	copper -translocating P-type ATPase	53.7622	76.9215	1.43
Mflv_3887	two component transcriptional regulator, winged helix family	33.06	44.9317	1.36
Mflv_3888	integral membrane sensor signal transduction histidine kinase	16.7089	24.248	1.45
Mflv_3889	protein of unknown function DUF305	36.4358	60.7331	1.67
Mflv_3890	hypothetical protein	12.7044	39.4326	3.10
Mflv_3891	hypothetical protein	0	64.4392	Pyrene
Mflv_3892	putative phage head	212.884	57.9515	0.27
Mflv_3893	hypothetical protein	57.0996	104.421	1.83
Mflv_3894	hypothetical protein	27.4235	29.9585	1.09
Mflv_3895	hypothetical protein	0	36.5227	Pyrene
Mflv_3896	hypothetical protein	15.4221	35.3995	2.30
Mflv_3897	HNH endonuclease	36.4232	30.8182	0.85
Mflv_3898	DNA binding domain, excisionase family	735.164	12.6281	0.02
Mflv_3899	phage integrase family protein	22.8962	52.6349	2.30
Mflv_3900	conserved hypothetical protein	36.1704	38.5078	1.06
Mflv_3901	Co/Zn/Cd cation transporters-like protein	16.666	53.3856	3.20
Mflv_3902	transcriptional regulator, ArsR family	160.983	67.2699	0.42
Mflv_3903	hypothetical protein	12.0429	68.2589	5.67
Mflv_3904	conserved hypothetical protein	461.553	62.2804	0.13
Mflv_3905	transcriptional regulator, AraC family	13950.5	151.115	0.01
Mflv_3906	conserved hypothetical protein	25.6987	32.299	1.26
Mflv_3907	Clp N terminal domain protein	14.6427	17.7581	1.21
Mflv_3908	RNA polymerase, sigma-24 subunit, ECF subfamily	114.397	32.4234	0.28
Mflv_3909	methylated-DNA--protein-cysteine methyltransferase	16.0719	22.6111	1.41
Mflv_3910	conserved hypothetical protein	26.6334	44.1473	1.66
Mflv_3911	GCN5-related N-acetyltransferase	16.2912	27.9551	1.72
Mflv_3912	AFG1-family ATPase	49.8058	39.6605	0.80

Mflv_3913	bifunctional deaminase-reductase domain protein	21.4314	38.2626	1.79
Mflv_3914	TAP domain protein	56.3206	38.9035	0.69
Mflv_3915	putative conserved integral membrane protein	78.6256	59.2267	0.75
Mflv_3916	methionine-R-sulfoxide reductase	1998.69	153.169	0.08
Mflv_3917	Chlorite dismutase	405.016	67.967	0.17
Mflv_3918	protoporphyrinogen oxidase	9.84714	34.488	3.50
Mflv_3919	uroporphyrinogen decarboxylase	30.3495	32.4729	1.07
Mflv_3920	conserved hypothetical protein	183.263	64.0701	0.35
Mflv_3921	3'-5' exonuclease	23.7545	37.2598	1.57
Mflv_3922	secretory lipase	29.6334	53.478	1.80
Mflv_3923	1-deoxy-D-xylulose-5-phosphate synthase	360.345	89.3809	0.25
Mflv_3924	sodium/proton antiporter, NhaA family	42.6669	39.141	0.92
Mflv_3925	(Uracil-5)-methyltransferase	8.75075	42.3563	4.84
Mflv_3926	amino acid/polyamine/organocation transporter, APC superfamily	30.2871	33.7921	1.12
Mflv_3927	TrkA-N domain protein	170.503	69.2575	0.41
Mflv_3928	TrkA-N domain protein	34.6297	29.9312	0.86
Mflv_3929	conserved hypothetical protein	144.943	72.0717	0.50
Mflv_3930	nucleic acid binding, OB-fold, tRNA/helicase-type	1968.74	283.652	0.14
Mflv_3931	conserved hypothetical protein	16.7609	18.3842	1.10
Mflv_3932	conserved hypothetical protein	507.767	73.592	0.14
Mflv_3933	deoxyuridine 5'-triphosphate nucleotidohydrolase	580.887	76.9756	0.13
Mflv_3934	putative conserved alanine rich transmembrane protein	399.579	113.807	0.28
Mflv_3935	conserved hypothetical protein	2636.25	185.425	0.07
Mflv_3936	conserved hypothetical protein	92.7807	39.0359	0.42
Mflv_3937	Inositol-phosphate phosphatase	6.83913	30.3281	4.43
Mflv_3938	Polyphosphate glucokinase	47.6984	34.0269	0.71
Mflv_3939	RNA polymerase, sigma 70 subunit, RpoD family	500.958	132.818	0.27
Mflv_3940	hydroxyneurosporene-O-methyltransferase	11.3082	56.6494	5.01
Mflv_3941	conserved hypothetical protein	40.5951	54.2765	1.34
Mflv_3942	Endoribonuclease L-PSP	2.22206	21.7469	9.79
Mflv_3943	protein of unknown function DUF952	128.037	60.7184	0.47
Mflv_3944	conserved hypothetical protein	956.201	2585.57	2.70
Mflv_3945	ribonuclease BN	372.313	679.375	1.82
Mflv_3946	conserved hypothetical protein	2176.39	398.032	0.18
Mflv_3947	conserved hypothetical protein	84.4758	84.2526	1.00

Mflv_3948	RNA polymerase, sigma 70 subunit, RpoD family	7386.04	2453.01	0.33
Mflv_3949	iron dependent repressor	841.103	252.457	0.30
Mflv_3950	conserved hypothetical protein	21.9924	68.2421	3.10
Mflv_3951	protein of unknown function DUF75	231.73	916.87	3.96
Mflv_3952	alpha/beta hydrolase fold protein	54.41	124.018	2.28
Mflv_3953	phenazine biosynthesis protein PhzF family	88.2552	100.072	1.13
Mflv_3954	ATP-cone domain protein	328.204	155.702	0.47
Mflv_3955	Peptidoglycan-binding LysM	6.45596	60.0162	9.30
Mflv_3956	SOS-response transcriptional repressor, LexA	69.3042	70.0531	1.01
Mflv_3957	LGFP repeat protein	54.7823	62.9693	1.15
Mflv_3958	molybdopterin guanine dinucleotide-containing S/N-oxide reductase	24.0522	44.7576	1.86
Mflv_3959	DEAD/DEAH box helicase domain protein	161.477	244.098	1.51
Mflv_3960	GTP-binding protein, HSR1-related protein	440.998	340.77	0.77
Mflv_3961	diaminopimelate epimerase	45.007	51.681	1.15
Mflv_3962	tRNA delta(2)-isopentenylpyrophosphate transferase	6.73707	24.9979	3.71
Mflv_3963	conserved hypothetical alanine rich protein	8.84806	29.1138	3.29
Mflv_3964	conserved hypothetical protein	18.2631	50.5879	2.77
Mflv_3965	protein of unknown function DUF349	29.6095	34.3834	1.16
Mflv_3966	putative conserved transmembrane protein	46.4941	51.5306	1.11
Mflv_3967	tRNA-i(6)A37 thiotransferase enzyme MiaB	77.6667	35.2975	0.45
Mflv_3968	amino acid ABC transporter ATP-binding protein	125.801	58.3087	0.46
Mflv_3969	amino acid ABC transporter substrate-binding protein, PAAT family	98.1615	72.3917	0.74
Mflv_3970	amino acid ABC transporter membrane protein 1,PAAT family	61.3249	64.2289	1.05
Mflv_3971	amino acid ABC transporter membrane protein 2,PAAT family	38.3938	101.938	2.66
Mflv_3972	protein of unknown function DUF1622	36.7927	44.6482	1.21
Mflv_3973	recA protein	129.652	132.004	1.02
Mflv_3973	conserved hypothetical protein	74.9981	32.15	0.43
Mflv_3974	regulatory protein RecX	59.3933	60.7611	1.02
Mflv_3976	dienelactone hydrolase	24.5767	28.2459	1.15
Mflv_3977	hydrogenase expression/synthesis, HypA	33.8684	24.504	0.72
Mflv_3978	hydrogenase accessory protein HypB	17.7752	64.8083	3.65
Mflv_3979	(NiFe) hydrogenase maturation protein HypF	19.7448	34.8342	1.76
Mflv_3980	hydrogenase assembly chaperone hypC/hupF	40.7574	47.599	1.17

Mflv_3981	hydrogenase expression/formation protein HypD	17.241	51.6916	3.00
Mflv_3982	hydrogenase expression/formation protein HypE	11.1799	32.9885	2.95
Mflv_3983	conserved hypothetical protein	215.771	49.2856	0.23
Mflv_3984	UDP-glucuronosyl/UDP-glucosyltransferase	20.9917	45.3061	2.16
Mflv_3985	Limonene-1,2-epoxide hydrolase	275.522	90.1259	0.33
Mflv_3986	putative conserved membrane alanine rich protein	288.575	211.188	0.73
Mflv_3987	phage shock protein A, PspA	375.27	212.606	0.57
Mflv_3988	transcriptional regulator, XRE family	846.204	310.375	0.37
Mflv_3989	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase	137.702	57.7656	0.42
Mflv_3990	N-acetylglutamate synthase	92.4577	58.3218	0.63
Mflv_3991	Chalcone and stilbene synthases domain protein	14.9356	46.6406	3.12
Mflv_3992	UbiA prenyltransferase	14.6828	53.8483	3.67
Mflv_3993	Methyltransferase type 12	17.9578	33.8648	1.89
Mflv_3994	cell division protein FtsK/SpoIIIE	313.41	63.4722	0.20
Mflv_3995	Antibiotic biosynthesis monooxygenase	100.151	17.9666	0.18
Mflv_3996	short-chain dehydrogenase/reductase SDR	25.7666	35.748	1.39
Mflv_3997	putative methyltransferase	21.4	29.7021	1.39
Mflv_3998	two component transcriptional regulator, winged helix family	38.8043	41.51	1.07
Mflv_3999	beta-lactamase domain protein	66.7167	50.7615	0.76
Mflv_4000	dihydrodipicolinate synthase	314.974	61.6514	0.20
Mflv_4001	thymidylate synthase (FAD)	61.0993	26.9476	0.44
Mflv_4002	diguanylate cyclase	31.8628	47.4128	1.49
Mflv_4003	Pseudogene	4.31201	28.007	6.50
Mflv_4004	Haloalkane dehalogenase	49.8696	16.5117	0.33
Mflv_4005	protein of unknown function DUF1006	10.9595	26.0674	2.38
Mflv_4006	Dihydrofolate reductase	88.5445	52.6033	0.59
Mflv_4007	thymidylate synthase	359.754	80.9229	0.22
Mflv_4008	dienelactone hydrolase	101.771	25.5789	0.25
Mflv_4009	HpcH/Hpal aldolase	46.4318	43.2612	0.93
Mflv_4010	conserved hypothetical protein	44.8885	36.6809	0.82
Mflv_4011	conserved hypothetical protein	29.1184	37.9125	1.30
Mflv_4012	Tetratricopeptide TPR_2 repeat protein	70.4571	34.7613	0.49
Mflv_4013	dihydrodipicolinate reductase	85.6354	45.5291	0.53
Mflv_4014	protein of unknown function DUF222	24.911	48.4543	1.95
Mflv_4015	hypothetical protein	1682.59	42.4201	0.03
Mflv_4016	transcriptional regulator, AsnC family	119.938	60.5763	0.51
Mflv_4017	L-alanine dehydrogenase	65.9961	56.3893	0.85

Mflv_4018	Glyoxalase/bleomycin resistance protein/dioxygenase	37.1177	45.9442	1.24
Mflv_4019	SEC-C motif domain protein	20.505	22.0468	1.08
Mflv_4020	conserved hypothetical protein	24.9824	29.4892	1.18
Mflv_4021	Beta-lactamase	95.2674	34.2924	0.36
Mflv_4022	peptidase M16 domain protein	63.3322	85.3241	1.35
Mflv_4023	Polyribonucleotide nucleotidyltransferase	205.194	143.609	0.70
Mflv_4024	SSU ribosomal protein S15P	76.2076	131.482	1.73
Mflv_4025	FMN adenylyltransferase / riboflavin kinase	45.0001	69.3444	1.54
Mflv_4026	iron dependent repressor	269.553	45.8281	0.17
Mflv_4027	conserved hypothetical protein	57.8237	51.2599	0.89
Mflv_4028	tRNA Pseudogeneuridine synthase B	15.1552	25.8972	1.71
Mflv_4029	4'-phosphopantetheinyl transferase	36.2875	40.8699	1.13
Mflv_4030	metallophosphoesterase	59.1902	36.6022	0.62
Mflv_4031	conserved hypothetical protein	46.9599	33.6354	0.72
Mflv_4032	peptidase S15	11.3752	25.9202	2.28
Mflv_4033	conserved hypothetical protein	59.1652	22.9213	0.39
Mflv_4034	Enoyl-CoA hydratase/isomerase	42.1279	38.7255	0.92
Mflv_4035	Methyltransferase type 11	11.5176	38.6137	3.35
Mflv_4036	MATE efflux family protein	20.0258	58.5524	2.92
Mflv_4037	phosphoesterase, RecJ domain protein	37.7212	94.6362	2.51
Mflv_4038	ribosome-binding factor A	231.314	163.297	0.71
Mflv_4039	bacterial translation initiation factor 2(bIF-2)	126.452	158.784	1.26
Mflv_4040	protein of unknown function DUF448	10503.9	518.826	0.05
Mflv_4041	NusA antitermination factor	70.9834	62.2306	0.88
Mflv_4042	protein of unknown function DUF150	81.3228	77.9401	0.96
Mflv_4043	hypothetical protein	0.543063	15.3728	28.31
Mflv_4044	hypothetical protein	31.1581	23.6352	0.76
Mflv_4045	prolyl-tRNA synthetase	59.0441	34.1872	0.58
Mflv_4046	drug resistance transporter, EmrB/QacA subfamily	469.491	70.908	0.15
Mflv_4047	uroporphyrinogen-III C-methyltransferase	82.6483	40.3201	0.49
Mflv_4048	hydrogenobyrinic acid a,c-diamide synthase(glutamine-hydrolysing) / cobyrinate a,c-diamide synthase	10.0512	21.8281	2.17
Mflv_4049	cob(II)yrinic acid a,c-diamide adenosyltransferase	19.6542	32.8048	1.67
Mflv_4050	protoporphyrin IX magnesium-chelatase	39.7833	33.3781	0.84
Mflv_4051	GCN5-related N-acetyltransferase	134.601	54.7382	0.41
Mflv_4052	malate--quinone oxidoreductase	297.902	55.7496	0.19
Mflv_4053	conserved hypothetical protein	16.356	25.1786	1.54
Mflv_4054	pyridine nucleotide-disulfide oxidoreductasedimerization region	17.9859	31.0249	1.72

Mflv_4055	cobalt ABC transporter, ATPase subunit	17.8457	24.7021	1.38
Mflv_4056	cobalt ABC transporter, inner membrane subunit CbiQ	16.0568	26.1036	1.63
Mflv_4057	hypothetical protein	88.6851	54.6068	0.62
Mflv_4058	cobalamin (vitamin B12) biosynthesis CbiM protein	107.385	52.3323	0.49
Mflv_4059	transcriptional regulator, ArsR family	587.195	39.5265	0.07
Mflv_4060	Methyltransferase type 11	6.50906	50.2338	7.72
Mflv_4061	transcriptional regulator, GntR family	44.674	36.1917	0.81
Mflv_4062	short-chain dehydrogenase/reductase SDR	208.573	58.9076	0.28
Mflv_4063	Betaine-aldehyde dehydrogenase	61.5695	54.2767	0.88
Mflv_4064	peptidase C26	58.1368	26.7639	0.46
Mflv_4065	Glutamate--ammonia ligase	133.718	60.402	0.45
Mflv_4066	asparagine synthase (glutamine-hydrolyzing)	651.344	69.1102	0.11
Mflv_4067	GCN5-related N-acetyltransferase	106.01	41.4641	0.39
Mflv_4068	conserved hypothetical protein	86.895	51.4879	0.59
Mflv_4069	conserved hypothetical protein	47.3759	27.1333	0.57
Mflv_4070	methionine aminopeptidase, type I	195.342	69.0693	0.35
Mflv_4071	thioesterase superfamily protein	33.4625	38.1392	1.14
Mflv_4072	transcriptional regulator, TetR family	5.90587	17.7702	3.01
Mflv_4073	conserved hypothetical protein	10.9409	33.1338	3.03
Mflv_4074	conserved hypothetical protein	11.4706	26.1995	2.28
Mflv_4075	protein of unknown function DUF1707	301.537	71.8762	0.24
Mflv_4076	penicillin-binding protein, transpeptidase	45.1909	38.7351	0.86
Mflv_4077	hypothetical protein	0	0	-
Mflv_4078	Integrase, catalytic region	0	0	-
Mflv_4079	conserved hypothetical protein	36.7338	29.3978	0.80
Mflv_4080	GCN5-related N-acetyltransferase	52.3891	42.9471	0.82
Mflv_4081	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase	68.8919	65.7789	0.95
Mflv_4082	peptidase M50	106.836	68.9469	0.65
Mflv_4083	1-deoxy-D-xylulose 5-phosphate reductoisomerase	55.455	33.4474	0.60
Mflv_4084	beta-Ig-H3/fasciclin	227.649	90.4083	0.40
Mflv_4085	beta-Ig-H3/fasciclin	291.369	82.6952	0.28
Mflv_4086	deoxyribodipyrimidine photo-lyase type I	20.2922	34.8519	1.72
Mflv_4087	short-chain dehydrogenase/reductase SDR	68.1412	31.0478	0.46
Mflv_4088	putative conserved transmembrane protein	539.523	73.2607	0.14
Mflv_4089	conserved hypothetical protein	11.2724	38.9367	3.45
Mflv_4090	hypothetical protein	67.5172	45.7307	0.68
Mflv_4091	Diacylglycerol O-acyltransferase	167.413	61.4708	0.37

Mflv_4092	protein of unknown function DUF427	23.0761	40.8206	1.77
Mflv_4093	acyl-CoA thioesterase	23.3555	32.0015	1.37
Mflv_4094	Alcohol dehydrogenase, zinc-binding domain protein	17.2359	30.2707	1.76
Mflv_4095	conserved hypothetical protein	13.7067	32.7528	2.39
Mflv_4096	transcriptional regulator, TetR family	22.9082	29.6105	1.29
Mflv_4097	luciferase family protein	8.97065	25.6832	2.86
Mflv_4098	luciferase family protein	13.3897	35.5306	2.65
Mflv_4099	protein of unknown function DUF222	10.3474	28.6719	2.77
Mflv_4100	acyl-CoA dehydrogenase domain protein	19.669	75.5932	3.84
Mflv_4101	conserved hypothetical protein	24.6467	21.2138	0.86
Mflv_4102	Alpha/beta hydrolase fold-3 domain protein	7.59144	22.2621	2.93
Mflv_4103	cyclohexanone monooxygenase	10.5121	26.8008	2.55
Mflv_4104	short-chain dehydrogenase/reductase SDR	12.3192	40.225	3.27
Mflv_4105	HpcH/Hpal aldolase	5.2948	28.6118	5.40
Mflv_4106	Alcohol dehydrogenase, zinc-binding domain protein	10.2948	23.9926	2.33
Mflv_4107	cytochrome P450	8.87024	16.4006	1.85
Mflv_4108	conserved hypothetical protein	18.1044	34.7941	1.92
Mflv_4109	gluconolactonase	14.0646	26.8514	1.91
Mflv_4110	conserved hypothetical protein	10.7295	40.8533	3.81
Mflv_4111	putative ferredoxin	309.759	31.7294	0.10
Mflv_4112	transcriptional regulator, TetR family	7.18676	22.3337	3.11
Mflv_4113	transcriptional regulator, TetR family	11.7015	21.5271	1.84
Mflv_4114	conserved hypothetical protein	12.12	38.7597	3.20
Mflv_4115	conserved hypothetical protein	12.6204	31.5928	2.50
Mflv_4116	L-carnitine dehydratase/bile acid-inducible protein F	10.2167	26.6137	2.60
Mflv_4117	protein of unknown function DUF227	7.4797	18.7854	2.51
Mflv_4118	transcriptional regulator, TetR family	43.4731	19.2526	0.44
Mflv_4119	aldehyde dehydrogenase	19.0352	37.3111	1.96
Mflv_4120	conserved hypothetical protein	31.7765	38.2066	1.20
Mflv_4121	23S rRNA m(2)A-2503 methyltransferase	97.1431	68.7941	0.71
Mflv_4122	phosphatidate cytidyltransferase	45.5069	43.0719	0.95
Mflv_4123	ribosome recycling factor	161.055	80.9791	0.50
Mflv_4124	uridylate kinase	58.7726	50.3745	0.86
Mflv_4125	Amine oxidase (copper-containing)	9.99335	36.2538	3.63
Mflv_4126	amino acid/polyamine/organocation transporter, APC superfamily	28.2258	99.2572	3.52
Mflv_4127	ABC transporter related protein	14.5826	30.6882	2.10
Mflv_4128	protein of unknown function DUF214	7.67801	39.8176	5.19
Mflv_4129	protein of unknown function DUF214	8.17764	38.4438	4.70



Mflv_4130	Amidase	18.3789	22.6072	1.23
Mflv_4131	sugar transferase	93.8547	36.2267	0.39
Mflv_4132	translation elongation factor Ts (EF-Ts)	282.557	191.217	0.68
Mflv_4133	SSU ribosomal protein S2P	731.788	298.136	0.41
Mflv_4134	peptidase M23B	11.9423	32.5573	2.73
Mflv_4135	tyrosine recombinase XerC subunit	36.5146	36.8198	1.01
Mflv_4136	FMN-dependent alpha-hydroxy acid dehydrogenase	16.0317	27.8034	1.73
Mflv_4137	Siderophore-interacting protein	61.2565	33.7698	0.55
Mflv_4138	DNA protecting protein DprA	8.83366	22.5905	2.56
Mflv_4139	Mg chelatase, subunit ChII	15.1595	30.6255	2.02
Mflv_4140	protein of unknown function UPF0102	7.48804	22.561	3.01
Mflv_4141	protein of unknown function DUF1206	508.739	69.2669	0.14
Mflv_4142	AMP-dependent synthetase and ligase	20.4031	32.2785	1.58
Mflv_4143	acyl-CoA thioesterase	13.1675	32.7148	2.48
Mflv_4144	L-carnitine dehydratase/bile acid-inducible protein F	34.9657	42.394	1.21
Mflv_4145	cytochrome P450	15.4924	33.2088	2.14
Mflv_4146	conserved hypothetical protein	17.5177	57.0835	3.26
Mflv_4147	transcriptional regulator, TetR family	51.0042	52.6651	1.03
Mflv_4148	short-chain dehydrogenase/reductase SDR	81.7482	35.822	0.44
Mflv_4149	cytochrome P450	9.53164	31.6528	3.32
Mflv_4150	cytochrome P450	12.7129	34.4939	2.71
Mflv_4151	Pseudogene	11.8708	27.2343	2.29
Mflv_4152	short-chain dehydrogenase/reductase SDR	12.0432	26.7253	2.22
Mflv_4153	conserved hypothetical protein	14.2678	49.5349	3.47
Mflv_4154	amino acid/amide ABC transporter substrate-binding protein, HAAT family	12.9702	41.9022	3.23
Mflv_4155	ATPase associated with various cellular	13.0003	45.5642	3.50
Mflv_4156	von Willebrand factor, type A	10.1411	30.7529	3.03
Mflv_4157	short-chain dehydrogenase/reductase SDR	13.8234	40.2598	2.91
Mflv_4158	transcriptional regulator, TetR family	44.8911	32.1278	0.72
Mflv_4159	dihydrodipicolinate reductase	11.784	23.2525	1.97
Mflv_4160	virulence factor Mce family protein	7.33033	30.9054	4.22
Mflv_4161	virulence factor Mce family protein	8.28936	37.7299	4.55
Mflv_4162	virulence factor Mce family protein	16.3281	53.2042	3.26
Mflv_4163	virulence factor Mce family protein	8.57982	38.3746	4.47
Mflv_4164	virulence factor Mce family protein	14.0302	54.0378	3.85
Mflv_4165	virulence factor Mce family protein	19.4771	43.4885	2.23
Mflv_4166	conserved hypothetical protein	43.6175	27.2124	0.62
Mflv_4167	conserved hypothetical protein	321.757	110.146	0.34
Mflv_4168	RNase HII	42.7731	63.9515	1.50

Mflv_4169	signal peptidase I. Serine peptidase. MEROPS family S26A	215.652	87.2486	0.40
Mflv_4170	LSU ribosomal protein L19P	2506.41	375.627	0.15
Mflv_4171	putative conserved alanine rich lipoprotein LppW	95.4188	45.5721	0.48
Mflv_4172	tRNA (Guanine37-N(1)-) methyltransferase	57.4609	130.258	2.27
Mflv_4173	16S rRNA processing protein RimM	45.4219	72.8095	1.60
Mflv_4174	conserved hypothetical protein	100.62	108.314	1.08
Mflv_4175	SSU ribosomal protein S16P	221.982	84.806	0.38
Mflv_4176	magnesium transporter	30.066	27.5326	0.92
Mflv_4177	conserved hypothetical protein	34.1123	28.0427	0.82
Mflv_4178	conserved hypothetical protein	40.9755	28.4091	0.69
Mflv_4179	Serine-type D-Ala-D-Ala carboxypeptidase	67.0973	33.8694	0.50
Mflv_4180	peptidase S11, D-alanyl-D-alanine carboxypeptidase 1	79.8593	25.9788	0.33
Mflv_4181	Pro-Hyp dipeptidase. Metallo peptidase. MEROPS family M38	39.212	34.2754	0.87
Mflv_4182	signal recognition particle subunit FFH/SRP54(srp54)	94.4899	60.5633	0.64
Mflv_4183	metal dependent phosphohydrolase	18.8791	37.1432	1.97
Mflv_4184	nitrogen regulatory protein P-II	377.43	64.3754	0.17
Mflv_4185	ammonium transporter	81.7248	49.1785	0.60
Mflv_4186	signal recognition particle-docking protein	66.76	55.6578	0.83
Mflv_4187	isopentenyl-diphosphate delta-isomerase, type 2	45.5532	32.2363	0.71
Mflv_4188	condensin subunit Smc	49.0996	48.9438	1.00
Mflv_4189	acylphosphatase	160.459	58.3922	0.36
Mflv_4190	OsmC family protein	91.7721	61.3699	0.67
Mflv_4191	DNA-(apurinic or apyrimidinic site) lyase	21.0163	36.4906	1.74
Mflv_4192	RNAse III	93.1426	47.6976	0.51
Mflv_4193	protein of unknown function DUF177	343.163	93.586	0.27
Mflv_4194	conserved hypothetical protein	518.223	107.777	0.21
Mflv_4195	Hemerythrin HHE cation binding domain protein	1597.37	78.4882	0.05
Mflv_4196	Phosphopantetheine adenyltransferase	154.925	44.0507	0.28
Mflv_4197	putative methyltransferase	57.762	40.5929	0.70
Mflv_4198	pyruvate carboxylase	29.0702	34.0313	1.17
Mflv_4199	transposase IS116/IS110/IS902 family protein	19.075	36.2948	1.90
Mflv_4200	transposase IS116/IS110/IS902 family protein	0	0	-
Mflv_4201	Vitamin K epoxide reductase	158.62	91.3546	0.58
Mflv_4202	conserved hypothetical protein	705.839	132.916	0.19
Mflv_4203	Alpha/beta hydrolase fold-3 domain protein	15.3533	25.2625	1.65

Mflv_4204	Integrase, catalytic region	0	0	-
Mflv_4205	2,5-didehydrogluconate reductase	459.373	66.885	0.15
Mflv_4206	conserved hypothetical protein	22.9892	24.6826	1.07
Mflv_4207	Propeptide, PepSY amd peptidase M4	15.2687	36.6277	2.40
Mflv_4208	protein of unknown function DUF461	35.3771	32.6812	0.92
Mflv_4209	Dyp-type peroxidase family	20.9874	28.6857	1.37
Mflv_4210	hypothetical protein	0	5.95556	Pyrene
Mflv_4211	conserved hypothetical protein	27.6715	28.1138	1.02
Mflv_4212	ATP-dependent DNA helicase RecG	19.2139	30.3793	1.58
Mflv_4213	Dak phosphatase	13.0402	35.1701	2.70
Mflv_4214	LSU ribosomal protein L28P	1121.93	207.853	0.19
Mflv_4215	uracil-DNA glycosylase	78.5002	54.0175	0.69
Mflv_4216	thiamine-phosphate kinase	10.2337	33.622	3.29
Mflv_4217	family	1092.15	55.3163	0.05
Mflv_4218	putative conserved secreted protein	27.4034	44.7504	1.63
Mflv_4219	D-alanine--D-alanine ligase	51.0688	39.7359	0.78
Mflv_4220	subunit	1615.55	145.191	0.09
Mflv_4220	Cys/Met metabolism pyridoxal-phosphate-dependent	25.6295	30.4587	1.19
Mflv_4221	glycerol 3-phosphate dehydrogenase (NAD(P)+)	78.7008	44.5324	0.57
Mflv_4222	protein of unknown function DUF121	18.1422	20.9098	1.15
Mflv_4223	Polyphosphate kinase	148.128	62.4388	0.42
Mflv_4224	NUDIX hydrolase	33.3218	47.8151	1.43
Mflv_4225	bacterial nucleoid protein Hbs	458.093	253.273	0.55
Mflv_4227	3-isopropylmalate dehydratase, large subunit	456.532	121.534	0.27
Mflv_4228	transcriptional regulator, lclR family	20.4655	51.2086	2.50
Mflv_4229	glutamyl-tRNA synthetase	39.4932	49.4268	1.25
Mflv_4230	5-carboxymethyl-2-hydroxyruconate Delta-isomerase	64.1187	50.6643	0.79
Mflv_4231	major facilitator superfamily MFS_1	9.57232	32.6535	3.41
Mflv_4232	conserved hypothetical protein	34.2429	46.3091	1.35
Mflv_4233	3-isopropylmalate dehydrogenase	168.509	58.7104	0.35
Mflv_4234	D-3-phosphoglycerate dehydrogenase	52.6288	36.0331	0.68
Mflv_4235	conserved hypothetical protein	15.0119	28.8582	1.92
Mflv_4236	putative conserved integral membrane alanine and leucine rich protein	48.5351	53.0646	1.09
Mflv_4237	ketol-acid reductoisomerase	91.9019	140.176	1.53
Mflv_4238	acetolactate synthase, small subunit	130.264	129.161	0.99
Mflv_4239	acetolactate synthase, large subunit	65.9799	64.337	0.98
Mflv_4240	hypothetical protein	60.9181	42.169	0.69

Mflv_4241	DoxX family protein	55.9691	32.4362	0.58
Mflv_4242	Putative lipoprotein	60.3143	24.9313	0.41
Mflv_4243	integral membrane sensor signal transduction	29.2478	40.7156	1.39
Mflv_4244	aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase subunit B	192.17	66.6575	0.35
Mflv_4245	6-phosphofructokinase	36.8376	37.952	1.03
Mflv_4246	aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase subunit A	38.6886	27.4431	0.71
Mflv_4247	amino acid-binding ACT domain protein	29.9547	28.7333	0.96
Mflv_4248	DNA ligase, NAD-dependent	58.0329	40.2572	0.69
Mflv_4249	formyltransferase	54.6659	95.8081	1.75
Mflv_4250	AMP-dependent synthetase and ligase	37.7204	56.4444	1.50
Mflv_4251	diguanylate cyclase with PAS/PAC sensor	56.2569	32.1416	0.57
Mflv_4252	Methionine synthase, vitamin-B12 independent	30.5352	32.4338	1.06
Mflv_4253	Putative lipoprotein	56.7282	45.509	0.80
Mflv_4254	tRNA(5-methylaminomethyl-2-thiouridylate)-methyltransferase	58.2911	60.5563	1.04
Mflv_4255	aminotransferase, class V	82.7355	43.4546	0.53
Mflv_4256	lyso-ornithine lipid acyltransferase	5.48197	24.9541	4.55
Mflv_4257	ornithine-acyl[acyl carrier protein] N-acyltransferase	18.1114	25.185	1.39
Mflv_4258	electron transfer flavoprotein, alpha subunit	430.46	113.256	0.26
Mflv_4259	electron transfer flavoprotein beta-subunit	1243.36	134.757	0.11
Mflv_4260	glucose 6-O-methyltransferase	32.4537	61.0426	1.88
Mflv_4261	(1->4)-alpha-D-glucan branching enzyme	40.3766	30.9715	0.77
Mflv_4262	1->4)-alpha-D-glucan synthase (ADP-glucose)	15.8087	50.315	3.18
Mflv_4263	glucose-6-phosphate 1-dehydrogenase	13.5492	35.8559	2.65
Mflv_4264	conserved hypothetical protein	93.2565	66.6003	0.71
Mflv_4265	Pyrrolo-quinoline quinone	35.601	50.9768	1.43
Mflv_4266	amino acid carrier protein	80.0679	72.335	0.90
Mflv_4267	immunogenic protein MPB64/MPT64 precursor	352.396	61.807	0.18
Mflv_4268	conserved hypothetical protein	21.4168	51.009	2.38
Mflv_4269	Methyltransferase type 11	69.4781	52.4134	0.75
Mflv_4270	Enoyl-CoA hydratase/isomerase	7.61475	22.7167	2.98
Mflv_4271	NUDIX hydrolase	36.6371	38.4091	1.05
Mflv_4272	ABC transporter related protein	106.942	50.9562	0.48
Mflv_4273	conserved hypothetical protein	37.6904	22.5999	0.60
Mflv_4274	protein of unknown function DUF161	470.736	57.6379	0.12
Mflv_4275	transcriptional regulator, GntR family	85.2981	31.5759	0.37

Mflv_4276	phosphoserine phosphatase SerB	135.761	82.6428	0.61
Mflv_4277	Cytochrome-c oxidase	1002.59	200.81	0.20
Mflv_4278	periplasmic binding protein	20.7308	25.8731	1.25
Mflv_4279	Alcohol dehydrogenase GroES domain protein	86.5827	155.691	1.80
Mflv_4280	conserved hypothetical protein	99.463	94.0719	0.95
Mflv_4281	transcriptional regulator, TetR family	10.9785	50.1625	4.57
Mflv_4282	cytochrome P450	22.6536	45.0504	1.99
Mflv_4283	transposase, mutator type	6.65369	16.1741	2.43
Mflv_4284	hypothetical protein	46.3433	44.7291	0.97
Mflv_4285	hypothetical protein	55.627	69.5285	1.25
Mflv_4286	ribonucleoside-diphosphate reductase class lb beta subunit	297.164	327.226	1.10
Mflv_4287	putative monooxygenase	25.9244	53.7347	2.07
Mflv_4288	metal dependent phosphohydrolase	6.29209	19.7337	3.14
Mflv_4289	conserved hypothetical protein	5.38424	20.3396	3.78
Mflv_4290	transcriptional regulator, TetR family	254.706	74.7132	0.29
Mflv_4291	geranylgeranyl reductase	241.88	57.4559	0.24
Mflv_4292	hypothetical protein	41.9527	47.323	1.13
Mflv_4293	hypothetical protein	15.6837	41.4179	2.64
Mflv_4294	Patatin	15.1271	49.987	3.30
Mflv_4295	WD-40 repeat-containing protein	18.7299	45.2337	2.42
Mflv_4296	Glyoxalase/bleomycin resistance protein/dioxygenase	168.705	53.112	0.31
Mflv_4297	conserved hypothetical protein	187.483	48.2562	0.26
Mflv_4298	transcriptional regulator	104.659	41.085	0.39
Mflv_4299	Methyltransferase type 11	15.9636	32.9994	2.07
Mflv_4300	hypothetical protein	14.7719	33.6985	2.28
Mflv_4301	ABC transporter related protein	62.2971	37.0531	0.59
Mflv_4302	transcriptional regulator, LysR family	15.2177	31.4974	2.07
Mflv_4303	conserved hypothetical protein	121.825	44.6193	0.37
Mflv_4304	protein	50.9006	94.2222	1.85
Mflv_4305	ribonucleoside-diphosphate reductase class lb alpha subunit	107.191	169.901	1.59
Mflv_4306	NrdI protein	409.578	348.121	0.85
Mflv_4307	ribonucleoside-diphosphate reductase class lb glutaredoxin subunit	914.948	854.719	0.93
Mflv_4308	NADPH-dependent FMN reductase	33.6229	239.061	7.11
Mflv_4309	transcriptional regulator, TetR family	89.6034	30.3247	0.34
Mflv_4310	DNA-directed DNA polymerase	16.7278	22.9602	1.37
Mflv_4311	putative GAF sensor protein	48.9764	23.5994	0.48
Mflv_4312	conserved hypothetical protein	27.2829	31.5542	1.16

Mflv_4313	short-chain dehydrogenase/reductase SDR	53.4516	36.6552	0.69
Mflv_4314	transcriptional regulator, TetR family	56.2961	29.9495	0.53
Mflv_4315	cytochrome P450	28.046	39.385	1.40
Mflv_4316	conserved hypothetical protein	9.0213	51.5406	5.71
Mflv_4317	protein of unknown function DUF81	19.2172	36.6573	1.91
Mflv_4318	aminoglycoside phosphotransferase	35.0253	45.3403	1.29
Mflv_4319	short-chain dehydrogenase/reductase SDR	43.8071	34.9048	0.80
Mflv_4320	oxidoreductase, molybdopterin binding protein	28.571	36.7227	1.29
Mflv_4321	DNA ligase I, ATP-dependent Dnl1	30.0638	39.1863	1.30
Mflv_4322	carbon starvation protein CstA	26.9154	81.6182	3.03
Mflv_4323	conserved hypothetical protein	0	0	-
Mflv_4324	amidohydrolase 2	36.7522	53.4771	1.46
Mflv_4325	cytochrome P450	14.5173	45.5747	3.14
Mflv_4326	putative oxidoreductase	10.8073	28.4718	2.63
Mflv_4327	Propionyl-CoA carboxylase	20.7563	34.0684	1.64
Mflv_4328	luciferase family protein	16.2602	42.2224	2.60
Mflv_4329	protein of unknown function DUF1486	11.4376	47.157	4.12
Mflv_4330	protein of unknown function DUF227	11.812	21.7563	1.84
Mflv_4331	conserved hypothetical protein	16.8844	41.9368	2.48
Mflv_4332	Cyclohexanone monooxygenase	13.6289	45.1338	3.31
Mflv_4333	Rieske (2Fe-2S) domain protein	18.6359	60.5664	3.25
Mflv_4334	isochorismatase hydrolase	2.33524	16.6249	7.12
Mflv_4335	AMP-dependent synthetase and ligase	16.4048	27.2536	1.66
Mflv_4336	aldehyde dehydrogenase	10.6817	31.8892	2.99
Mflv_4337	hypothetical protein	19.3247	56.4425	2.92
Mflv_4338	short-chain dehydrogenase/reductase SDR	30.0513	31.5564	1.05
Mflv_4339	cytochrome P450	23.4865	63.3983	2.70
Mflv_4340	aldehyde dehydrogenase	10.8942	39.1459	3.59
Mflv_4341	L-carnitine dehydratase/bile acid-inducible protein F	24.6179	45.2132	1.84
Mflv_4342	molybdopterin dinucleotide-binding region	25.6585	36.6406	1.43
Mflv_4343	cytochrome P450	14.4058	42.6318	2.96
Mflv_4344	conserved hypothetical protein	10.3457	30.3946	2.94
Mflv_4345	Thiolase	14.7257	31.6443	2.15
Mflv_4346	acyl-CoA dehydrogenase domain protein	16.477	29.8302	1.81
Mflv_4347	acyl-CoA dehydrogenase domain protein	16.5172	22.2202	1.35
Mflv_4348	amidohydrolase 2	10.2528	36.4597	3.56
Mflv_4349	AMP-dependent synthetase and ligase	14.5097	37.2327	2.57
Mflv_4350	amidohydrolase 2	22.1509	65.0342	2.94
Mflv_4351	Enoyl-CoA hydratase	19.6289	39.1792	2.00

Mflv_4352	dihydrodipicolinate synthetase	14.0688	52.4769	3.73
Mflv_4353	short-chain dehydrogenase/reductase SDR	14.148	27.3419	1.93
Mflv_4354	short chain enoyl-CoA hydratase	25.1067	21.4895	0.86
Mflv_4355	transcriptional regulator, TetR family	45.0944	36.433	0.81
Mflv_4356	acetyl-CoA acetyltransferase	64.1945	42.5462	0.66
Mflv_4357	Enoyl-CoA hydratase/isomerase	18.6151	31.7302	1.70
Mflv_4358	transcriptional regulator, GntR family	26.1023	25.4221	0.97
Mflv_4359	Enoyl-CoA hydratase	27.3288	33.5123	1.23
Mflv_4360	Enoyl-CoA hydratase/isomerase	21.0444	37.9247	1.80
Mflv_4361	Enoyl-CoA hydratase/isomerase	19.0936	33.6721	1.76
Mflv_4362	AMP-dependent synthetase and ligase	9.2459	35.5403	3.84
Mflv_4363	AMP-dependent synthetase and ligase	15.1677	41.7579	2.75
Mflv_4364	AMP-dependent synthetase and ligase	8.15028	23.6248	2.90
Mflv_4365	L-carnitine dehydratase/bile acid-inducible protein F	21.4316	57.5144	2.68
Mflv_4366	transcriptional regulator, GntR family	22.242	49.0736	2.21
Mflv_4367	Butyryl-CoA dehydrogenase	17.0075	70.5549	4.15
Mflv_4368	acetyl-CoA acetyltransferase	29.905	69.1135	2.31
Mflv_4369	short-chain dehydrogenase/reductase SDR	31.3884	98.3484	3.13
Mflv_4370	acyl-CoA dehydrogenase domain protein	14.8319	64.162	4.33
Mflv_4371	short-chain dehydrogenase/reductase SDR	24.8498	67.6188	2.72
Mflv_4372	alpha/beta hydrolase fold protein	24.7385	53.688	2.17
Mflv_4373	Flavin-containing monooxygenase	46.6988	53.1741	1.14
Mflv_4374	MaoC domain protein dehydratase	215.611	68.6188	0.32
Mflv_4375	conserved hypothetical protein	37.7957	53.7636	1.42
Mflv_4376	UBA/THIF-type NAD/FAD binding protein	6.64177	26.3905	3.97
Mflv_4377	diguanylate cyclase/phosphodiesterase with GAF sensor	39.6451	54.4067	1.37
Mflv_4378	conserved hypothetical protein	14.2118	37.7379	2.66
Mflv_4379	acyl-CoA dehydrogenase domain protein	33.0649	31.4165	0.95
Mflv_4380	acyl-CoA dehydrogenase domain protein	178.6	37.5559	0.21
Mflv_4381	conserved hypothetical protein	1331.6	43.1461	0.03
Mflv_4382	UspA domain protein	796.348	61.1091	0.08
Mflv_4383	conserved hypothetical protein	22.1487	43.2535	1.95
Mflv_4384	transcriptional regulator, TetR family	39.5952	34.7753	0.88
Mflv_4385	conserved hypothetical protein	32.3448	41.2094	1.27
Mflv_4386	Endonuclease/exonuclease/phosphatase	212.1	42.1727	0.20
Mflv_4387	conserved hypothetical protein	86.9746	20.7446	0.24
Mflv_4388	transcriptional regulator, Crp/Fnr family	43.0723	55.6076	1.29
Mflv_4389	aldehyde dehydrogenase	62.553	38.3543	0.61
Mflv_4390	hypothetical protein	13.8235	20.3025	1.47

Mflv_4391	conserved hypothetical protein	425.689	32.8403	0.08
Mflv_4392	transcriptional regulator, TetR family	76.3633	119.832	1.57
Mflv_4393	peptidase S9, prolyl oligopeptidase active site domain protein	19.7786	74.6066	3.77
Mflv_4394	coenzyme F390 synthetase-like protein	22.566	68.9298	3.05
Mflv_4395	hypothetical protein	32.9711	49.7626	1.51
Mflv_4396	transposase, IS204/IS1001/IS1096/IS1165 family protein	0	0	-
Mflv_4397	protein of unknown function DUF222	49.6786	60.1396	1.21
Mflv_4398	Carboxylesterase, type B	25.4736	53.8979	2.12
Mflv_4399	hypothetical protein	9.75417	37.1876	3.81
Mflv_4400	conserved hypothetical protein	10.8762	31.6557	2.91
Mflv_4401	conserved hypothetical protein	14.1879	68.7217	4.84
Mflv_4402	luciferase family protein	10.7725	26.7231	2.48
Mflv_4403	zinc/iron permease	45.9255	61.1101	1.33
Mflv_4404	conserved hypothetical protein	365.726	79.0751	0.22
Mflv_4405	major facilitator superfamily MFS_1	40.2721	59.8064	1.49
Mflv_4406	phosphoglucomutase, alpha-D-glucose phosphate-specific	48.8121	38.2629	0.78
Mflv_4407	camphor resistance protein CrcB	60.2101	16.2975	0.27
Mflv_4408	camphor resistance protein CrcB	8.99596	54.3607	6.04
Mflv_4409	protein of unknown function DUF190	9.55978	21.1618	2.21
Mflv_4410	phosphopantetheine-binding protein	57.0527	89.9871	1.58
Mflv_4411	AMP-dependent synthetase and ligase	9.35156	22.8831	2.45
Mflv_4412	conserved hypothetical protein	20.8475	33.1865	1.59
Mflv_4413	conserved hypothetical protein	15.7937	39.1079	2.48
Mflv_4414	hypothetical protein	13.0918	38.1099	2.91
Mflv_4415	protein of unknown function DUF808	66.4814	60.6738	0.91
Mflv_4416	conserved hypothetical protein	327.279	31.2874	0.10
Mflv_4417	HAD-superfamily hydrolase, subfamily IA, variant 3	98.8413	35.4069	0.36
Mflv_4418	Transport protein	14.0842	32.7334	2.32
Mflv_4419	TRAP transporter solute receptor, TAXI family	18.5345	37.2264	2.01
Mflv_4420	TRAP transporter, 4TM/12TM fusion protein	17.2708	52.6902	3.05
Mflv_4421	DNA primase, small subunit	103.256	32.4385	0.31
Mflv_4422	anti-sigma-factor antagonist	1455.52	14.9248	0.01
Mflv_4423	PAS/PAC sensor hybrid histidine kinase	138.416	34.8245	0.25
Mflv_4424	anti-sigma-factor antagonist	180.906	35.7291	0.20
Mflv_4425	putative PAS/PAC sensor protein	305.194	70.6478	0.23
Mflv_4426	Alpha/beta hydrolase fold-3 domain protein	38.8643	30.627	0.79
Mflv_4427	amino acid/polyamine/organocation transporter, APC superfamily	89.6331	51.8707	0.58



Mflv_4428	conserved hypothetical protein	45.1139	46.1022	1.02
Mflv_4429	luciferase family protein	25.6877	49.0636	1.91
Mflv_4430	aminoglycoside/hydroxyurea antibiotic resistance kinase	13.486	35.2112	2.61
Mflv_4431	conserved hypothetical protein	9.54217	23.8017	2.49
Mflv_4432	Cutinase	895.233	63.2408	0.07
Mflv_4433	pyruvate ferredoxin/ flavodoxin oxidoreductase	746.893	87.9681	0.12
Mflv_4434	transcriptional regulator, AsnC family	195.901	12.9523	0.07
Mflv_4435	conserved hypothetical protein	23.6654	17.1122	0.72
Mflv_4436	conserved hypothetical protein; putative thioesterase/thiol ester dehydrase-isomerase domain	35.5903	27.6096	0.78
Mflv_4437	Cupin domain protein	24.8836	43.4516	1.75
Mflv_4438	hypothetical protein	0	84.3621	Pyrene
Mflv_4439	Cutinase	112.04	38.839	0.35
Mflv_4440	conserved hypothetical protein	23.1656	27.3606	1.18
Mflv_4441	putative short chain dehydrogenase	16.2551	23.577	1.45
Mflv_4442	conserved hypothetical protein	30.6065	27.4854	0.90
Mflv_4443	protein of unknown function DUF88	31.1512	24.7046	0.79
Mflv_4444	diguanylate cyclase/phosphodiesterase	42.0371	46.2117	1.10
Mflv_4445	protein of unknown function DUF6, transmembrane	25.2601	53.5195	2.12
Mflv_4446	SsrA-binding protein	139.154	80.3425	0.58
Mflv_4447	cell division protein FtsX	72.5466	55.3079	0.76
Mflv_4448	cell division ATP-binding protein FtsE	161.826	102.966	0.64
Mflv_4449	conserved hypothetical protein	15.1117	42.7649	2.83
Mflv_4450	MscS Mechanosensitive ion channel	71.6655	78.4975	1.10
Mflv_4451	bacterial peptide chain release factor 2(bRF-2)	276.141	63.1664	0.23
Mflv_4452	disulfide	38.1882	35.2086	0.92
Mflv_4453	hypothetical protein	35.3181	39.7932	1.13
Mflv_4454	histidinol-phosphate phosphatase	20.6343	36.771	1.78
Mflv_4455	acyl-CoA dehydrogenase domain protein	131.874	42.8091	0.32
Mflv_4456	acyl-CoA dehydrogenase domain protein	187.539	52.7462	0.28
Mflv_4457	molybdopterin dinucleotide-binding region	27.0406	38.2181	1.41
Mflv_4458	Alcohol dehydrogenase, zinc-binding domain	52.7205	42.2505	0.80
Mflv_4459	putative esterase	312.434	182.952	0.59
Mflv_4460	transcriptional regulator, TetR family	26.683	42.4116	1.59
Mflv_4461	Acyl-CoA dehydrogenase, type 2, C-terminal domain	11.5152	28.065	2.44
Mflv_4462	conserved hypothetical protein	30.1023	20.9627	0.70

Mflv_4463	homogentisate 1,2-dioxygenase	36.7743	54.5254	1.48
Mflv_4464	conserved hypothetical protein	17.0095	35.1327	2.07
Mflv_4465	Formyl-CoA transferase	32.3882	49.3648	1.52
Mflv_4466	hydroxymethylglutaryl-CoA lyase	19.1973	36.2446	1.89
Mflv_4467	transcriptional regulator, TetR family	14.083	33.8835	2.41
Mflv_4468	acyl-CoA dehydrogenase domain protein	20.3808	25.1557	1.23
Mflv_4469	aminoglycoside phosphotransferase	5.27519	24.1389	4.58
Mflv_4470	conserved hypothetical protein	3.67708	61.0112	16.59
Mflv_4471	Methyltransferase type 11	21.7697	69.4125	3.19
Mflv_4472	conserved hypothetical protein	7.93178	15.8977	2.00
Mflv_4473	conserved hypothetical protein	0	19.5503	Pyrene
Mflv_4474	regulatory protein, LuxR	7.47706	22.2516	2.98
Mflv_4475	GMC oxidoreductase	14.9206	32.7654	2.20
Mflv_4476	conserved hypothetical protein	8.54399	28.1375	3.29
Mflv_4477	hypothetical protein	3.62328	24.4787	6.76
Mflv_4478	conserved hypothetical protein	15.3216	38.4618	2.51
Mflv_4479	regulatory protein, LuxR	5.70234	28.5064	5.00
Mflv_4480	response regulator receiver protein	41.2339	40.1879	0.97
Mflv_4481	NADH dehydrogenase subunit A	5.54754	47.7247	8.60
Mflv_4482	NADH dehydrogenase subunit B	31.7359	66.7668	2.10
Mflv_4483	NADH dehydrogenase subunit C	18.0227	37.9689	2.11
Mflv_4484	NADH dehydrogenase subunit D	20.869	39.6374	1.90
Mflv_4485	NADH dehydrogenase subunit E	20.871	47.0398	2.25
Mflv_4486	NADH-quinone oxidoreductase, F subunit	23.6724	28.3338	1.20
Mflv_4487	NADH dehydrogenase subunit G	15.2096	37.6903	2.48
Mflv_4488	NADH dehydrogenase subunit H	43.157	75.1751	1.74
Mflv_4489	NADH dehydrogenase subunit I	25.0068	52.7537	2.11
Mflv_4490	NADH dehydrogenase subunit J	36.7928	86.2649	2.34
Mflv_4491	NADH dehydrogenase subunit K	91.8837	31.5563	0.34
Mflv_4492	NADH dehydrogenase subunit L	30.4628	55.3374	1.82
Mflv_4493	NADH dehydrogenase subunit M	24.4085	74.3131	3.04
Mflv_4494	NADH dehydrogenase subunit N	55.5634	44.4868	0.80
Mflv_4495	Enoyl-CoA hydratase/isomerase	33.3355	24.9715	0.75
Mflv_4496	transcriptional regulator, TetR family	35.1574	24.0414	0.68
Mflv_4497	aminoglycoside phosphotransferase	16.8157	43.0021	2.56
Mflv_4498	conserved hypothetical protein	22.986	42.3285	1.84
Mflv_4499	FAD dependent oxidoreductase	129.191	65.597	0.51
Mflv_4500	conserved hypothetical protein	30.3502	46.6141	1.54
Mflv_4501	amine oxidase	14.6567	32.849	2.24
Mflv_4502	alpha/beta hydrolase fold protein	28.4125	27.964	0.98

Mflv_4503	Alcohol dehydrogenase, zinc-binding domain protein	33.4658	31.4919	0.94
Mflv_4504	regulatory protein, LuxR	10.516	28.2245	2.68
Mflv_4505	short-chain dehydrogenase/reductase SDR	33.1666	49.5266	1.49
Mflv_4506	Cyclohexanone monooxygenase	9.48473	24.2251	2.55
Mflv_4507	alpha/beta hydrolase fold protein	32.3216	33.4294	1.03
Mflv_4508	short-chain dehydrogenase/reductase SDR	460.87	58.058	0.13
Mflv_4509	conserved hypothetical protein	523.03	64.7199	0.12
Mflv_4510	conserved hypothetical protein	153.088	13.2241	0.09
Mflv_4511	isochorismatase hydrolase	228.021	26.3502	0.12
Mflv_4512	hypothetical protein	0	81.2409	Pyrene
Mflv_4513	acyl-CoA dehydrogenase domain protein	52.0998	37.3235	0.72
Mflv_4514	Pseudogene	16.7018	26.2985	1.57
Mflv_4515	diguanylate cyclase	45.8437	41.0948	0.90
Mflv_4516	amine oxidase	13.9694	27.0382	1.94
Mflv_4517	Alcohol dehydrogenase, zinc-binding domain protein	8.88282	21.0806	2.37
Mflv_4518	PE-PPE, C-terminal domain protein	11.9148	21.2555	1.78
Mflv_4519	putative GAF sensor protein	25.2573	37.7232	1.49
Mflv_4520	anti-sigma-factor antagonist	12.0136	21.5326	1.79
Mflv_4521	putative GAF sensor protein	66.4131	34.9702	0.53
Mflv_4522	amino acid ABC transporter substrate-binding protein, PAAT family	12.0066	38.708	3.22
Mflv_4523	hypothetical protein	9.89468	41.6964	4.21
Mflv_4524	major facilitator superfamily MFS_1	10.256	30.1528	2.94
Mflv_4525	alpha/beta hydrolase fold protein	23.3657	61.2694	2.62
Mflv_4526	protein of unknown function DUF35	4.8398	33.4059	6.90
Mflv_4527	lipid-transfer protein	13.6739	51.8705	3.79
Mflv_4528	conserved hypothetical protein	4.78601	13.6058	2.84
Mflv_4529	conserved hypothetical protein	16.5074	40.0514	2.43
Mflv_4530	hypothetical protein	11.3882	20.8471	1.83
Mflv_4531	conserved hypothetical protein	111.137	28.349	0.26
Mflv_4532	conserved hypothetical protein	14.4046	24.5519	1.70
Mflv_4533	virulence factor Mce family protein	34.3599	26.7973	0.78
Mflv_4534	virulence factor Mce family protein	8.72643	17.2688	1.98
Mflv_4535	virulence factor Mce family protein	5.84939	21.9477	3.75
Mflv_4536	virulence factor Mce family protein	10.8565	38.5354	3.55
Mflv_4537	virulence factor Mce family protein	10.1493	30.3589	2.99
Mflv_4538	virulence factor Mce family protein	13.985	29.2081	2.09
Mflv_4539	protein of unknown function DUF140	17.7685	74.0958	4.17
Mflv_4540	protein of unknown function DUF140	8.04893	30.3914	3.78
Mflv_4541	short-chain dehydrogenase/reductase SDR	13.3221	36.2775	2.72

Mflv_4542	conserved hypothetical protein	9.46632	29.3051	3.10
Mflv_4543	conserved hypothetical protein	24.6578	42.1174	1.71
Mflv_4544	luciferase family protein	25.6524	29.2738	1.14
Mflv_4545	short-chain dehydrogenase/reductase SDR	38.8772	33.3401	0.86
Mflv_4546	FAD dependent oxidoreductase	10.0286	30.9614	3.09
Mflv_4547	ferredoxin	0	13.6654	Pyrene
Mflv_4548	Acyl-CoA dehydrogenase, type 2, C-terminal domain	17.2529	29.3733	1.70
Mflv_4549	Glyoxalase/bleomycin resistance protein/dioxygenase	16.4834	46.3795	2.81
Mflv_4550	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	16.2116	28.7584	1.77
Mflv_4551	transcriptional regulator, lclR family	11.2093	29.7	2.65
Mflv_4552	Alpha/beta hydrolase fold-3 domain protein	4.73647	19.5711	4.13
Mflv_4553	NADH:flavin oxidoreductase/NADH oxidase	9.91179	36.7747	3.71
Mflv_4554	conserved hypothetical protein	9.7926	11.8673	1.21
Mflv_4555	Stress responsive alpha-beta barrel domain protein	8.24749	19.9928	2.42
Mflv_4556	short-chain dehydrogenase/reductase SDR	11.819	27.0805	2.29
Mflv_4557	conserved hypothetical protein	15.1539	39.1845	2.59
Mflv_4558	acyl-CoA dehydrogenase domain protein	7.66766	24.1568	3.15
Mflv_4559	AMP-dependent synthetase and ligase	10.2989	28.2052	2.74
Mflv_4560	conserved hypothetical protein	10.3532	47.5178	4.59
Mflv_4561	short-chain dehydrogenase/reductase SDR	14.5684	34.8823	2.39
Mflv_4562	Alpha/beta hydrolase fold-3 domain protein	17.9716	26.1681	1.46
Mflv_4563	conserved hypothetical protein	9.46926	40.1887	4.24
Mflv_4564	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	8.26484	35.5989	4.31
Mflv_4565	conserved hypothetical protein	0	31.1588	Pyrene
Mflv_4566	Rieske (2Fe-2S) domain protein	13.928	36.9388	2.65
Mflv_4567	fumarate reductase/succinate dehydrogenase flavoprotein domain protein	7.79324	38.9795	5.00
Mflv_4568	transcriptional regulator, PadR family	128.027	128.214	1.00
Mflv_4569	flavin reductase domain protein, FMN-binding protein	6.16339	19.6929	3.20
Mflv_4570	thioesterase superfamily protein	13.5402	22.6291	1.67
Mflv_4571	diguanylate phosphodiesterase	15.3492	41.1127	2.68
Mflv_4572	transcriptional regulator, TetR family	31.0147	47.5808	1.53
Mflv_4573	hypothetical protein	11.7341	43.7535	3.73
Mflv_4574	conserved hypothetical protein	8.96957	26.2267	2.92
Mflv_4575	cytochrome c oxidase, subunit III	11.9374	17.814	1.49
Mflv_4576	hypothetical protein	0	12.8279	Pyrene
Mflv_4577	Phosphoglycerate mutase	12.6606	40.377	3.19

Mflv_4578	monosaccharide ABC transporter substrate-binding protein, CUT2 family	18.77	50.8499	2.71
Mflv_4579	transcriptional regulator, TetR family	69.3469	136.125	1.96
Mflv_4580	thioesterase superfamily protein	11.7168	53.2131	4.54
Mflv_4581	transcriptional regulator, TetR family	13.9127	57.9763	4.17
Mflv_4582	conserved hypothetical protein	32.1353	137.725	4.29
Mflv_4583	luciferase family protein	73.184	58.9162	0.81
Mflv_4584	transcriptional regulator, TetR family	97.5602	55.3292	0.57
Mflv_4585	thioesterase superfamily protein	50.7075	114.711	2.26
Mflv_4586	conserved hypothetical protein	62.0459	75.2449	1.21
Mflv_4587	conserved hypothetical protein	63.5158	56.6985	0.89
Mflv_4588	Alcohol dehydrogenase GroES domain protein	46.9243	84.7678	1.81
Mflv_4589	AMP-dependent synthetase and ligase	45.2395	83.6655	1.85
Mflv_4590	conserved hypothetical protein	87.3353	80.6583	0.92
Mflv_4591	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	25.9288	50.6669	1.95
Mflv_4592	cytochrome P450	64.579	58.0647	0.90
Mflv_4593	ferredoxin	146.973	31.1064	0.21
Mflv_4594	transcriptional regulator, AraC family	74.5231	85.1743	1.14
Mflv_4595	Carboxylesterase, type B	63.8162	48.0372	0.75
Mflv_4596	Enoyl-CoA hydratase/isomerase	39.6155	51.998	1.31
Mflv_4597	Wyosine base formation	23.3433	35.0778	1.50
Mflv_4598	protein of unknown function DUF1446	15.3606	31.0874	2.02
Mflv_4599	transcriptional regulator, TetR family	273.814	92.2305	0.34
Mflv_4600	putative adenylate/guanylate cyclase	76.7133	39.9743	0.52
Mflv_4601	acyl-CoA dehydrogenase domain protein	168.569	58.4398	0.35
Mflv_4602	transcriptional regulator, TetR family	375.337	83.7993	0.22
Mflv_4603	short-chain dehydrogenase/reductase SDR	234.375	74.2954	0.32
Mflv_4604	Cytochrome P450-like protein	235.138	103.213	0.44
Mflv_4605	FAD dependent oxidoreductase	67.1075	103.542	1.54
Mflv_4606	Alpha/beta hydrolase fold-3 domain protein	73.5936	63.269	0.86
Mflv_4607	Cyclohexanone monooxygenase	42.8118	118.509	2.77
Mflv_4608	FAD dependent oxidoreductase	61.2055	169.331	2.77
Mflv_4609	conserved hypothetical protein	110.737	484.114	4.37
Mflv_4610	short-chain dehydrogenase/reductase SDR	313.74	212.607	0.68
Mflv_4611	transcriptional regulator, TetR family	440.979	47.2116	0.11
Mflv_4612	acyl-CoA dehydrogenase domain protein	168.979	74.9764	0.44
Mflv_4613	carboxyl transferase	254.231	47.9044	0.19
Mflv_4614	Carbamoyl-phosphate synthase L chain,ATP-binding protein	19.0951	29.0961	1.52
Mflv_4615	acyl-CoA dehydrogenase domain protein	72.0912	53.6911	0.74

Mflv_4616	AMP-dependent synthetase and ligase	49.3284	44.2818	0.90
Mflv_4617	TnpC protein	32.1912	33.7563	1.05
Mflv_4618	TnpC protein	15.0831	57.3815	3.80
Mflv_4619	transposase IS3/IS911 family protein	0	0	-
Mflv_4620	Integrase, catalytic region	0	0	-
Mflv_4621	conserved hypothetical protein	53.2324	65.0956	1.22
Mflv_4622	alpha/beta hydrolase fold protein	67.6	60.3678	0.89
Mflv_4623	thioesterase superfamily protein	54.3056	67.846	1.25
Mflv_4624	transcriptional regulator, TetR family	25.6543	55.8927	2.18
Mflv_4625	acetyl-CoA acetyltransferase	45.4945	88.4066	1.94
Mflv_4626	Alcohol dehydrogenase GroES domain protein	17.408	60.6156	3.48
Mflv_4627	Carboxymuconolactone decarboxylase	21.7294	40.3522	1.86
Mflv_4628	hypothetical protein	67.0378	101.402	1.51
Mflv_4629	metal-dependent hydrolase	157.256	101.36	0.64
Mflv_4630	transcriptional regulator, TetR family	126.328	100.132	0.79
Mflv_4631	transcriptional regulator, TetR family	300.599	79.7355	0.27
Mflv_4632	MMPL domain protein	12.2878	50.4033	4.10
Mflv_4633	Integrase, catalytic region	0	0	-
Mflv_4634	transposase IS3/IS911 family protein	0	0	-
Mflv_4635	MMPL domain protein	15.398	56.7489	3.69
Mflv_4636	transposase IS3/IS911 family protein	0	24.0057	Pyrene
Mflv_4637	transposase, mutator type	4.25284	14.3914	3.38
Mflv_4638	hypothetical protein	281.425	94.4267	0.34
Mflv_4639	hypothetical protein	8.55014	5.43848	0.64
Mflv_4640	transposase, mutator type	4.79713	24.2869	5.06
Mflv_4641	hypothetical protein	663.978	67.7119	0.10
Mflv_4642	Integrase, catalytic region	0	0	-
Mflv_4643	transposase IS3/IS911 family protein	0	0	-
Mflv_4644	phage integrase family protein	37.9933	65.1703	1.72
Mflv_4645	phage integrase family protein	92.9017	45.9817	0.49
Mflv_4646	hypothetical protein	3.30695	17.447	5.28
Mflv_4647	putative transposase	0	1.14742	Pyrene
Mflv_4648	conserved hypothetical protein	54.3925	61.2671	1.13
Mflv_4649	hypothetical protein	65.25	59.4108	0.91
Mflv_4650	heat shock protein Hsp90	58.5392	51.8856	0.89
Mflv_4651	FAD linked oxidase domain protein	17.071	33.4619	1.96
Mflv_4652	conserved hypothetical protein	117.929	83.7304	0.71
Mflv_4653	transcriptional regulator, putative ATPase, wing like helix	16.2204	26.0829	1.61
Mflv_4654	protein of unknown function UPF0182	76.7902	66.4102	0.86

Mflv_4655	PDZ/DHR/GLGF	58.9283	27.7468	0.47
Mflv_4656	conserved hypothetical protein	132.973	50.9374	0.38
Mflv_4657	conserved hypothetical protein	23.2942	26.3599	1.13
Mflv_4658	ABC-1 domain protein	189.035	77.5412	0.41
Mflv_4659	transcription factor WhiB	864.258	108.808	0.13
Mflv_4660	ATP-dependent DNA helicase, Rep family	53.2379	32.7644	0.62
Mflv_4661	Glutaredoxin-like protein	492.462	819.959	1.67
Mflv_4662	NUDIX hydrolase	49.3258	89.6738	1.82
Mflv_4663	TrkA-N domain protein	69.7458	40.0352	0.57
Mflv_4664	conserved hypothetical protein	298.363	53.8502	0.18
Mflv_4665	UvrD/REP helicase	24.452	37.8557	1.55
Mflv_4666	UvrD/REP helicase	26.0799	36.041	1.38
Mflv_4667	alpha/beta hydrolase fold protein	30.2151	40.406	1.34
Mflv_4668	O(6)-alkylguanine repair protein YbaZ	24.2371	16.7761	0.69
Mflv_4669	conserved hypothetical protein	159.809	77.0737	0.48
Mflv_4670	UBA/THIF-type NAD/FAD binding protein	144.969	313.774	2.16
Mflv_4671	conserved hypothetical protein	83.4613	47.821	0.57
Mflv_4672	transcriptional regulator, TetR family	99.2737	54.5782	0.55
Mflv_4673	conserved hypothetical protein	1816.47	144.432	0.08
Mflv_4674	conserved hypothetical protein	18.6149	32.3845	1.74
Mflv_4675	conserved hypothetical protein	489.197	57.0176	0.12
Mflv_4676	DEAD/DEAH box helicase domain protein	178.955	128.64	0.72
Mflv_4677	conserved hypothetical protein	68.4849	53.0137	0.77
Mflv_4678	Cobyrinic acid a,c-diamide synthase	300.477	81.2388	0.27
Mflv_4679	Phosphoglycerate mutase	54.8185	29.9516	0.55
Mflv_4680	isochorismate synthase	29.1552	41.7371	1.43
Mflv_4681	GCN5-related N-acetyltransferase	10.3572	36.4759	3.52
Mflv_4682	hypothetical protein	39.0859	47.6103	1.22
Mflv_4683	3-dehydroquinate dehydratase	237.024	87.0784	0.37
Mflv_4684	diacylglycerol kinase, catalytic region	73.7035	40.5181	0.55
Mflv_4685	transcription factor WhiB	4545.69	636.66	0.14
Mflv_4686	signal transduction histidine kinase	28.8214	39.5958	1.37
Mflv_4687	biotin/lipoyl attachment domain-containing protein	932.474	150.112	0.16
Mflv_4688	hypothetical protein	1048.88	488.777	0.47
Mflv_4689	family	992.483	832.318	0.84
Mflv_4690	ybaK/epsC protein	8.93098	17.939	2.01
Mflv_4691	short-chain dehydrogenase/reductase SDR	28.8867	37.5429	1.30
Mflv_4692	Methyltransferase type 11	15.4405	38.5343	2.50
Mflv_4693	methyltransferase small	18.5975	27.6685	1.49
Mflv_4694	protein of unknown function DUF159	51.0807	25.0122	0.49

Mflv_4695	3-phosphoshikimate 1-carboxyvinyltransferase	81.8133	35.6685	0.44
Mflv_4696	GTPase EngC	22.5342	24.3132	1.08
Mflv_4697	2,5-didehydrogluconate reductase	237.437	54.4807	0.23
Mflv_4698	fatty acid desaturase	6662.29	492.83	0.07
Mflv_4699	ferredoxin	475.467	147.4	0.31
Mflv_4700	conserved hypothetical protein	139.434	48.5423	0.35
Mflv_4701	protein of unknown function DUF344	72.2486	58.5189	0.81
Mflv_4702	choline/carnitine/betaine transporter	115.31	86.5421	0.75
Mflv_4703	Diacylglycerol O-acyltransferase	41.3724	39.5049	0.95
Mflv_4704	conserved hypothetical alanine arginine proline rich protein	45.3271	48.2344	1.06
Mflv_4705	protein translocase subunit secA	112.375	86.9227	0.77
Mflv_4706	SSU ribosomal protein S30P / sigma 54 modulation	209.751	131.184	0.63
Mflv_4707	conserved hypothetical protein	5.47885	21.4624	3.92
Mflv_4708	conserved hypothetical protein	14.8322	27.8368	1.88
Mflv_4709	Rieske (2Fe-2S) domain protein	42.057	23.4411	0.56
Mflv_4710	Putative lipoprotein	23.5712	26.9572	1.14
Mflv_4711	integral membrane sensor signal transduction histidine kinase	81.1718	43.8406	0.54
Mflv_4712	two component transcriptional regulator, winged helix family	905.724	103.624	0.11
Mflv_4713	hypothetical protein	40.4466	37.1331	0.92
Mflv_4714	thymidylate kinase	23.9973	17.8654	0.74
Mflv_4715	Alpha/beta hydrolase fold-3 domain protein	14.6121	48.3022	3.31
Mflv_4716	hypothetical protein	75.3892	38.2362	0.51
Mflv_4717	adenosylhomocysteinase	196.725	75.3219	0.38
Mflv_4718	transcriptional regulator, TetR family	55.1882	80.4302	1.46
Mflv_4719	Rubredoxin-type Fe(Cys) <sub>4</sub> protein	0	59.6246	Pyrene
Mflv_4720	Rubredoxin-type Fe(Cys) <sub>4</sub> protein	0	272.561	Pyrene
Mflv_4721	alkane 1-monooxygenase	37.6251	175.541	4.67
Mflv_4722	amino acid/polyamine/organocation transporter, APC superfamily	49.9052	37.7432	0.76
Mflv_4723	conserved hypothetical protein	25.8509	54.7197	2.12
Mflv_4724	mannose-6-phosphate isomerase, type 1	31.9964	46.1095	1.44
Mflv_4725	conserved hypothetical protein	34.2291	76.9863	2.25
Mflv_4726	phosphomannomutase	83.9406	51.1194	0.61
Mflv_4727	conserved hypothetical protein	62.8202	44.4627	0.71
Mflv_4728	conserved hypothetical protein	9.90996	43.3538	4.37
Mflv_4729	transcription factor WhiB	2196.64	142.655	0.06
Mflv_4730	LPPG:FO 2-phospho-L-lactate transferase	38.9506	59.8023	1.54
Mflv_4731	coenzyme F420-0 gamma-glutamyl ligase	21.4506	31.9612	1.49



Mflv_4732	NUDIX hydrolase	24.5054	43.2185	1.76
Mflv_4733	conserved hypothetical protein	35.8058	30.7438	0.86
Mflv_4734	nucleotidyltransferase	45.8368	52.4741	1.14
Mflv_4735	glycosyl transferase, family 2	43.0512	35.5542	0.83
Mflv_4736	dTDP-4-dehydrorhamnose reductase	12.9187	30.5609	2.37
Mflv_4737	cell envelope-related transcriptional attenuator	117.607	66.8017	0.57
Mflv_4738	conserved hypothetical protein	48.6046	36.4001	0.75
Mflv_4739	hypothetical protein	942.12	54.5562	0.06
Mflv_4740	hypothetical protein	127.844	63.0557	0.49
Mflv_4741	biotin--acetyl-CoA-carboxylase ligase	155.732	80.3363	0.52
Mflv_4742	conserved hypothetical protein	199.737	49.3195	0.25
Mflv_4743	Butyryl-CoA dehydrogenase	300.643	69.5886	0.23
Mflv_4744	protein	171.688	79.8535	0.47
Mflv_4745	putative GAF sensor protein	17.7273	39.2125	2.21
Mflv_4746	5-(carboxyamino)imidazole ribonucleotide mutase	57.4129	52.9627	0.92
Mflv_4747	5-(carboxyamino)imidazole ribonucleotide synthase	25.8085	53.9619	2.09
Mflv_4748	GtrA family protein	807.232	205.615	0.25
Mflv_4749	membrane-flanked domain	79.7574	105.229	1.32
Mflv_4750	UDP-galactopyranose mutase	60.9286	72.6539	1.19
Mflv_4751	di-trans-poly-cis-decaprenylcistransferase	40.614	66.7578	1.64
Mflv_4752	Integrase, catalytic region	0	0	-
Mflv_4753	NAD-dependent epimerase/dehydratase	55.4715	81.9558	1.48
Mflv_4754	GDP-mannose 4,6-dehydratase	132.851	101.351	0.76
Mflv_4755	Undecaprenyl-phosphate galactose phosphotransferase	255.013	111.998	0.44
Mflv_4756	hypothetical protein	93.9524	108.08	1.15
Mflv_4757	protein tyrosine phosphatase	207.529	141.577	0.68
Mflv_4758	glycosyl transferase, WecB/TagA/CpsF family	281.55	109.446	0.39
Mflv_4759	gluconolactonase	87.1544	83.8727	0.96
Mflv_4760	hypothetical protein	193.634	177.589	0.92
Mflv_4761	hypothetical protein	362.088	92.8115	0.26
Mflv_4762	methyltransferase FkbM family	276.388	70.9558	0.26
Mflv_4763	Integrase, catalytic region	0	0	-
Mflv_4764	polysaccharide biosynthesis protein	58.3783	135.976	2.33
Mflv_4765	glycosyl transferase, family 2	133.707	170.389	1.27
Mflv_4766	hypothetical protein	120.018	138.46	1.15
Mflv_4767	short-chain dehydrogenase/reductase SDR	83.0331	98.8613	1.19
Mflv_4768	D-isomer specific 2-hydroxyacid dehydrogenase,NAD-binding protein	109.424	128.907	1.18

Mflv_4769	acylneuraminate cytidyltransferase	156.232	120.842	0.77
Mflv_4770	glycosyl transferase, family 2	166.032	136.178	0.82
Mflv_4771	lipopolysaccharide biosynthesis protein	179.256	119.373	0.67
Mflv_4772	conserved hypothetical protein	251.805	144.238	0.57
Mflv_4773	hypothetical protein	11848.8	271.293	0.02
Mflv_4774	carboxyl transferase	104.802	60.24	0.57
Mflv_4775	conserved hypothetical protein	0	58.6331	Pyrene
Mflv_4776	maf protein	62.3337	54.3547	0.87
Mflv_4777	hypothetical protein	908.342	139.204	0.15
Mflv_4778	hypothetical protein	205.732	135.513	0.66
Mflv_4779	acyltransferase 3	20.9769	45.8619	2.19
Mflv_4780	Rhodanese domain protein	45.6476	43.1647	0.95
Mflv_4781	Fe-S metabolism associated SufE	67.7135	54.0961	0.80
Mflv_4782	hypothetical protein	401.159	107.243	0.27
Mflv_4783	diguanylate cyclase	74.2174	43.3446	0.58
Mflv_4784	biotin carboxylase / biotin carboxyl carrier protein	102.125	53.1638	0.52
Mflv_4785	conserved hypothetical protein	272.96	55.1431	0.20
Mflv_4786	hypothetical protein	0	54.9711	Pyrene
Mflv_4787	conserved hypothetical protein	0.619997	23.181	37.39
Mflv_4788	anti-sigma-factor antagonist	72.9772	65.8271	0.90
Mflv_4789	RNA polymerase, sigma 28 subunit, FliA/WhiG family	159.021	45.8253	0.29
Mflv_4790	putative anti-sigma regulatory factor, serine/threonine protein kinase	1149.93	89.1545	0.08
Mflv_4791	hypothetical protein	27096.1	710.018	0.03
Mflv_4792	conserved hypothetical protein	321.629	44.4431	0.14
Mflv_4793	putative protein UsfY	1324.33	190.532	0.14
Mflv_4794	conserved hypothetical protein	373.265	77.6183	0.21
Mflv_4795	restriction endonuclease	134.836	45.3934	0.34
Mflv_4796	L-lysine 6-transaminase precursor	1867.34	90.4488	0.05
Mflv_4797	transcriptional regulator, AsnC family	1265.25	45.6654	0.04
Mflv_4798	protein of unknown function DUF1338	176.569	30.5206	0.17
Mflv_4799	delta-1-piperidine-6-carboxylate dehydrogenase	70.5087	55.9027	0.79
Mflv_4800	short-chain dehydrogenase/reductase SDR	45.8926	28.8312	0.63
Mflv_4801	cytochrome P450	25.1005	37.8064	1.51
Mflv_4802	transcriptional regulator, TetR family	27.2354	30.6422	1.13
Mflv_4803	hypothetical protein	10.2287	23.7152	2.32
Mflv_4804	conserved hypothetical protein	39.0154	23.58	0.60
Mflv_4805	conserved hypothetical protein	7.727	27.3154	3.54
Mflv_4806	conserved hypothetical protein	15.9764	35.2026	2.20

Mflv_4807	Dyp-type peroxidase family	13.092	40.5934	3.10
Mflv_4808	conserved hypothetical protein	10.8166	26.6121	2.46
Mflv_4809	regulatory protein, LuxR	17.7212	42.4951	2.40
Mflv_4810	ATP dependent helicase, Lhr family	26.4042	33.2631	1.26
Mflv_4811	Formamidopyrimidine-DNA glycolase	22.2755	48.014	2.16
Mflv_4812	conserved hypothetical protein	65.209	44.2865	0.68
Mflv_4813	conserved hypothetical protein	225.748	53.3482	0.24
Mflv_4814	fatty acid desaturase	1250.04	52.4922	0.04
Mflv_4815	protein	847.205	58.553	0.07
Mflv_4816	transcriptional regulator, TetR family	475.317	87.4262	0.18
Mflv_4817	Enoyl-CoA hydratase	63.4158	37.135	0.59
Mflv_4818	short-chain dehydrogenase/reductase SDR	119.172	48.4601	0.41
Mflv_4819	hypothetical protein	4.13888	40.0955	9.69
Mflv_4820	Pseudogeneuridine synthase	31.1335	32.6906	1.05
Mflv_4821	dependent oxidoreductase	120.019	49.1526	0.41
Mflv_4822	pyridine nucleotide-disulfide oxidoreductase dimerization region	30.6137	43.1286	1.41
Mflv_4823	conserved hypothetical protein	369.902	49.5257	0.13
Mflv_4824	conserved hypothetical protein	5.58232	34.0851	6.11
Mflv_4825	Transport protein	52.9051	57.8879	1.09
Mflv_4826	amidohydrolase	29.3992	36.7947	1.25
Mflv_4827	amidohydrolase	61.8047	30.0185	0.49
Mflv_4828	purine nucleotide phosphorylase	36.7251	47.7715	1.30
Mflv_4829	putative ammonia monooxygenase	50.3017	140.209	2.79
Mflv_4830	transcriptional regulator, MarR family	30.6812	73.6727	2.40
Mflv_4831	phosphoglucomutase/phosphomannomutase alpha/beta/alpha domain I	32.1511	61.9621	1.93
Mflv_4832	diaminobutyrate acetyltransferase	56.5816	76.5428	1.35
Mflv_4833	diaminobutyrate aminotransferase apoenzyme	64.8912	85.1649	1.31
Mflv_4834	ectoine synthase	71.2736	97.7422	1.37
Mflv_4835	ectoine hydroxylase	63.4958	69.8084	1.10
Mflv_4836	uracil phosphoribosyltransferase	38.2188	40.5585	1.06
Mflv_4837	hypothetical protein	0	2.66824	Pyrene
Mflv_4838	NLP/P60 protein	8.2735	42.395	5.12
Mflv_4839	luciferase family protein	89.2745	38.8872	0.44
Mflv_4840	conserved hypothetical protein	74.4602	36.1194	0.49
Mflv_4841	adenosine deaminase	40.8706	32.9296	0.81
Mflv_4842	thymidine phosphorylase	19.5073	43.6733	2.24
Mflv_4843	cytidine deaminase	8.72781	39.5531	4.53
Mflv_4844	succinate dehydrogenase subunit C	116.857	210.329	1.80
Mflv_4845	succinate dehydrogenase subunit D	40.2786	118.168	2.93

Mflv_4846	succinate dehydrogenase subunit A	94.9029	114.54	1.21
Mflv_4847	succinate dehydrogenase subunit B	139.806	169.695	1.21
Mflv_4848	alpha/beta hydrolase fold protein	22.8917	63.4949	2.77
Mflv_4849	protein of unknown function DUF1470	59.6718	70.6065	1.18
Mflv_4850	protein of unknown function UPF0118	31.0746	48.6271	1.56
Mflv_4851	conserved hypothetical protein	16.6339	32.7817	1.97
Mflv_4852	RNA polymerase, sigma-24 subunit, ECF subfamily	42.6607	43.8432	1.03
Mflv_4853	amino acid/polyamine/organocation transporter, APC superfamily	20.6876	41.4177	2.00
Mflv_4854	UspA domain protein	17.0249	62.3366	3.66
Mflv_4855	40-residue YVTN family beta-propeller repeat protein	23.3646	55.3905	2.37
Mflv_4856	transposase IS3/IS911 family protein	52.6546	66.9887	1.27
Mflv_4857	hypothetical protein	17.9102	27.59	1.54
Mflv_4858	Pseudogene	18.3523	43.1175	2.35
Mflv_4860	Betaine-aldehyde dehydrogenase	22.9352	37.3694	1.63
Mflv_4861	transcriptional regulator, AsnC family	263.008	29.5246	0.11
Mflv_4862	aminotransferase	72.5952	23.3697	0.32
Mflv_4863	Strictosidine synthase	22.805	29.3013	1.28
Mflv_4864	hypothetical protein	74.1172	1325.99	17.89
Mflv_4865	response regulator receiver protein	43.8688	203.757	4.64
Mflv_4866	AMP-dependent synthetase and ligase	50.418	35.4076	0.70
Mflv_4867	AMP-dependent synthetase and ligase	378.944	56.4197	0.15
Mflv_4868	metallophosphoesterase	32.4275	32.3306	1.00
Mflv_4869	Serine-type D-Ala-D-Ala carboxypeptidase	26.147	22.1992	0.85
Mflv_4870	putative ribonuclease	96.3818	95.394	0.99
Mflv_4871	tryptophanyl-tRNA synthetase	152.369	69.9954	0.46
Mflv_4872	hypothetical protein	21.857	36.1028	1.65
Mflv_4873	exodeoxyribonuclease III Xth	23.2908	29.8257	1.28
Mflv_4874	alpha/beta hydrolase fold protein	28.0563	34.8367	1.24
Mflv_4875	O-acetylhomoserine sulfhydrylase	17.3859	39.8517	2.29
Mflv_4876	homoserine O-acetyltransferase	17.6754	34.0825	1.93
Mflv_4877	Methyltransferase type 11	16.533	41.4055	2.50
Mflv_4878	conserved hypothetical protein	0	21.5922	Pyrene
Mflv_4879	5,10-methylenetetrahydrofolate dehydrogenase(NADP+)/methenyltetrahydrofolate cyclohydrolase	156.044	36.2558	0.23
Mflv_4880	NADH:flavin oxidoreductase/NADH oxidase	17.9206	27.8601	1.55
Mflv_4881	transcriptional regulator, TetR family	93.3799	35.2728	0.38
Mflv_4882	ABC transporter related protein	164.679	48.6279	0.30
Mflv_4883	transcriptional regulator, TetR family	1584.05	32.8341	0.02

Mflv_4884	6,7-dihydropteridine reductase	1546.13	37.7142	0.02
Mflv_4885	pentapeptide repeat protein	36.3837	85.2133	2.34
Mflv_4886	protein of unknown function, ATP binding protein	53.4941	34.0909	0.64
Mflv_4887	protein of unknown function DUF742	51.0741	45.1744	0.88
Mflv_4888	Roadblock/LC7 family protein	12.811	20.2428	1.58
Mflv_4889	integral membrane sensor signal transduction histidine kinase	42.3417	32.7474	0.77
Mflv_4890	Methyltransferase type 12	186.841	27.9629	0.15
Mflv_4891	tRNA/rRNA methyltransferase (SpoU)	75.6542	34.1886	0.45
Mflv_4892	nitroreductase	133.636	51.0443	0.38
Mflv_4893	error-prone DNA polymerase, DnaE-like protein	19.9278	37.6862	1.89
Mflv_4894	diguanylate cyclase	103.029	46.9286	0.46
Mflv_4895	MaoC domain protein dehydratase	15.9135	30.0446	1.89
Mflv_4896	Male sterility C-terminal domain	11.1025	23.3119	2.10
Mflv_4897	Inosine/uridine-preferring nucleoside hydrolase	38.3623	28.5864	0.75
Mflv_4898	conserved hypothetical protein	22.9429	26.8499	1.17
Mflv_4899	conserved hypothetical protein	38.5997	53.5176	1.39
Mflv_4900	conserved hypothetical protein	26.646	36.3235	1.36
Mflv_4901	flavin-binding monooxygenase	12.2935	49.8486	4.05
Mflv_4902	family	31.7529	22.5644	0.71
Mflv_4903	GMP synthase (glutamine-hydrolyzing)	83.7979	54.3864	0.65
Mflv_4904	two component transcriptional regulator, LuxR family	20.3619	37.4767	1.84
Mflv_4905	Signal transduction histidine kinase-like protein	41.8222	46.4648	1.11
Mflv_4906	FAD dependent oxidoreductase	139.942	53.0285	0.38
Mflv_4907	transcriptional regulator, TetR family	28.7065	39.916	1.39
Mflv_4908	IMP dehydrogenase family protein	40.2239	25.8647	0.64
Mflv_4909	inosine-5'-monophosphate dehydrogenase	110.962	73.6709	0.66
Mflv_4910	conserved hypothetical protein	2469.19	191.272	0.08
Mflv_4911	hypothetical protein	567.167	209.982	0.37
Mflv_4912	RNA polymerase, sigma-24 subunit, ECF subfamily	14446.8	659.485	0.05
Mflv_4913	conserved hypothetical protein	21.6575	27.1353	1.25
Mflv_4914	transcription factor WhiB	145.385	34.9681	0.24
Mflv_4915	conserved hypothetical protein	42.8788	41.6858	0.97
Mflv_4916	Thiocyanate hydrolase	16.7563	42.9857	2.57
Mflv_4917	conserved hypothetical protein	97.997	39.6569	0.40
Mflv_4918	conserved hypothetical protein	95.7348	56.9707	0.60

Mflv_4919	3-deoxy-D-arabinoheptulosonate-7-phosphate synthase	114.831	48.2796	0.42
Mflv_4920	hypothetical protein	8.0981	41.1805	5.09
Mflv_4921	conserved hypothetical protein	110.679	82.5345	0.75
Mflv_4922	Lipocalin family protein	248.208	54.7898	0.22
Mflv_4923	conserved hypothetical protein	468.557	38.843	0.08
Mflv_4924	chaperonin GroEL	339.757	116.566	0.34
Mflv_4925	chaperonin Cpn10	21900.9	751.932	0.03
Mflv_4926	hypothetical protein	90.0576	196.866	2.19
Mflv_4927	protein of unknown function DUF222	18.7538	37.0384	1.97
Mflv_4928	conserved hypothetical protein	44.3473	21.2846	0.48
Mflv_4929	O-sialoglycoprotein endopeptidase	10.9972	47.2483	4.30
Mflv_4930	ribosomal-protein-alanine acetyltransferase	40.7153	39.1427	0.96
Mflv_4931	peptidase M22, glycoprotease	26.8233	31.2787	1.17
Mflv_4932	protein of unknown function UPF0079	41.9017	39.7159	0.95
Mflv_4933	alpha/beta hydrolase fold protein	31.0261	46.8571	1.51
Mflv_4934	alanine racemase	42.2221	55.7976	1.32
Mflv_4935	glutamate decarboxylase	39.0028	58.548	1.50
Mflv_4936	carbohydrate kinase, YjeF related protein	35.6742	37.9313	1.06
Mflv_4937	conserved hypothetical protein	1290.81	168.344	0.13
Mflv_4938	anti-sigma-factor antagonist	1957.01	89.3077	0.05
Mflv_4939	glutamine--fructose-6-phosphate transaminase	105.918	38.1152	0.36
Mflv_4940	conserved hypothetical protein	48.5884	25.4821	0.52
Mflv_4941	luciferase family protein	18.9418	23.3185	1.23
Mflv_4942	transcriptional regulator, TetR family	102.959	44.4714	0.43
Mflv_4943	acyl-CoA dehydrogenase domain protein	162.898	25.7113	0.16
Mflv_4944	hypothetical protein	88.8566	46.1097	0.52
Mflv_4945	hypothetical protein	11.588	36.2855	3.13
Mflv_4946	hypothetical protein	0	18.3293	Pyrene
Mflv_4947	phosphoglucosamine mutase	24.9268	31.4521	1.26
Mflv_4948	hypothetical protein	17.8709	23.4243	1.31
Mflv_4949	SSU ribosomal protein S9P	445.315	271.221	0.61
Mflv_4950	LSU ribosomal protein L13P	311.573	480.159	1.54
Mflv_4951	Alcohol dehydrogenase GroES domain protein	42.9954	44.6727	1.04
Mflv_4952	Aldehyde dehydrogenase (NAD(+))	56.4314	84.3531	1.49
Mflv_4953	transcriptional regulator, TetR family	10.4306	27.8736	2.67
Mflv_4954	lysophospholipase-like protein	36.9837	34.6735	0.94
Mflv_4955	transcriptional regulator	18.7144	31.5431	1.69
Mflv_4956	conserved hypothetical protein	48.1272	27.831	0.58
Mflv_4957	conserved hypothetical protein	84.356	32.8409	0.39

Mflv_4958	conserved hypothetical alanine and valine rich protein	8.8461	24.8391	2.81
Mflv_4959	cell division protein FtsK/SpolIIE	9.36859	23.7324	2.53
Mflv_4960	conserved hypothetical protein	5.22556	18.9859	3.63
Mflv_4961	peptidase S8 and S53, subtilisin, kexin, sedolisin	9.39908	33.7447	3.59
Mflv_4962	protein of unknown function DUF690	32.0857	23.5172	0.73
Mflv_4963	protein of unknown function DUF1470	305.734	29.4567	0.10
Mflv_4964	protein of unknown function DUF6, transmembrane	61.5924	25.1248	0.41
Mflv_4965	cutinase	77.6753	43.7522	0.56
Mflv_4966	cutinase	69.6181	40.2019	0.58
Mflv_4967	cutinase	542.044	84.8092	0.16
Mflv_4968	tRNA Pseudogeneuridine synthase A	24.8959	51.0245	2.05
Mflv_4969	LSU ribosomal protein L17P	314.866	300.984	0.96
Mflv_4970	DNA-directed RNA polymerase subunit alpha	204.299	167.356	0.82
Mflv_4971	SSU ribosomal protein S4P	239.014	265.938	1.11
Mflv_4972	SSU ribosomal protein S11P	178.405	295.267	1.66
Mflv_4973	SSU ribosomal protein S13P	31.7388	180.373	5.68
Mflv_4974	bacterial translation initiation factor 1(bIF-1)	783.372	462.968	0.59
Mflv_4975	sulfate transporter	235.306	48.3742	0.21
Mflv_4976	hypothetical protein	2641.93	49.6046	0.02
Mflv_4977	Diacylglycerol O-acyltransferase	871.724	33.5108	0.04
Mflv_4978	UspA domain protein	521.117	42.6738	0.08
Mflv_4979	protein of unknown function DUF21	53.1499	25.229	0.47
Mflv_4980	zinc/iron permease	183.306	44.2208	0.24
Mflv_4981	conserved hypothetical protein	517.902	49.8637	0.10
Mflv_4982	hypothetical protein	174.056	41.4033	0.24
Mflv_4983	acetyl-CoA synthetase	424.601	29.5017	0.07
Mflv_4984	hypothetical protein	1137.43	39.788	0.03
Mflv_4985	UspA domain protein	168.363	64.7732	0.38
Mflv_4986	conserved hypothetical protein	235.831	20.6698	0.09
Mflv_4987	6-phosphofructokinase	209.619	39.4502	0.19
Mflv_4988	Erythromycin esterase	390.327	36.9838	0.09
Mflv_4989	trehalose 6-phosphatase	196.402	33.6287	0.17
Mflv_4990	phosphoenolpyruvate synthase	398.652	29.4349	0.07
Mflv_4991	UspA domain protein	847.586	38.3714	0.05
Mflv_4992	UspA domain protein	1299.64	26.2437	0.02
Mflv_4993	heavy metal translocating P-type ATPase	102.383	26.9653	0.26
Mflv_4994	conserved hypothetical protein	292.736	35.4725	0.12
Mflv_4995	UspA domain protein	220.087	42.5392	0.19

Mflv_4996	UspA domain protein	315.255	25.7738	0.08
Mflv_4997	Alcohol dehydrogenase GroES domain protein	1331.36	64.6289	0.05
Mflv_4998	putative conserved transmembrane protein	1744.06	50.7512	0.03
Mflv_4999	UspA domain protein	2031.76	40.3071	0.02
Mflv_5000	conserved hypothetical protein	868.623	32.6408	0.04
Mflv_5001	conserved hypothetical protein	286.666	25.541	0.09
Mflv_5002	UspA domain protein	438.931	38.1898	0.09
Mflv_5003	response regulator receiver modulated FAD-dependent pyridine nucleotide-disulfide oxidoreductase	73.748	32.1367	0.44
Mflv_5004	cyclic nucleotide-binding protein	58.9279	64.7503	1.10
Mflv_5005	conserved hypothetical protein	26.6012	33.9978	1.28
Mflv_5006	conserved hypothetical protein	143.34	37.2966	0.26
Mflv_5007	dTDP-glucose 4,6-dehydratase	43.1134	35.9711	0.83
Mflv_5008	transcriptional regulator, TetR family	117.775	62.9123	0.53
Mflv_5009	monooxygenase, FAD-binding protein	169.016	158.59	0.94
Mflv_5010	methylmalonate-semialdehyde dehydrogenase(acylating)	149.645	43.4272	0.29
Mflv_5011	acyl-CoA dehydrogenase domain protein	137.516	34.6091	0.25
Mflv_5012	3-hydroxyisobutyrate dehydrogenase	182.164	34.536	0.19
Mflv_5013	Haloacid dehalogenase domain protein hydrolase	55.1085	56.1401	1.02
Mflv_5014	two component transcriptional regulator, LuxR family	37.5156	62.0431	1.65
Mflv_5015	GAF sensor signal transduction histidine kinase	12.4829	22.9117	1.84
Mflv_5016	cytochrome P450	7.79064	33.2611	4.27
Mflv_5017	transcriptional regulator, MarR family	46.7099	35.6304	0.76
Mflv_5018	putative transmembrane anti-sigma factor	3.63315	24.9661	6.87
Mflv_5019	RNA polymerase, sigma-24 subunit, ECF subfamily	19.1656	49.1448	2.56
Mflv_5020	methionine aminopeptidase, type I	44.1092	68.053	1.54
Mflv_5021	Adenylate kinase	219.933	136.798	0.62
Mflv_5022	alpha	254.161	150.167	0.59
Mflv_5023	putative methyltransferase	39.1734	58.3229	1.49
Mflv_5024	putative methyltransferase	32.3665	57.0472	1.76
Mflv_5025	putative methyltransferase	92.0753	36.2562	0.39
Mflv_5026	signal peptide peptidase SppA, 67K type	77.5609	61.3301	0.79
Mflv_5027	protein of unknown function DUF732	4733.55	284.782	0.06
Mflv_5028	LSU ribosomal protein L15P	915.364	444.379	0.49
Mflv_5029	LSU ribosomal protein L30P	688.203	370.742	0.54
Mflv_5030	SSU ribosomal protein S5P	237.797	184.768	0.78



Mflv_5031	LSU ribosomal protein L18P	1075.92	186.709	0.17
Mflv_5032	LSU ribosomal protein L6P	282.373	443.889	1.57
Mflv_5033	SSU ribosomal protein S8P	158.532	249.679	1.57
Mflv_5034	SSU ribosomal protein S14P	342.757	718.052	2.09
Mflv_5035	LSU ribosomal protein L5P	815.004	432.375	0.53
Mflv_5036	LSU ribosomal protein L24P	3699.81	421.213	0.11
Mflv_5037	LSU ribosomal protein L14P	2697.75	531.513	0.20
Mflv_5038	protein of unknown function DUF323	44.0948	44.4668	1.01
Mflv_5039	sulfatase	38.0577	41.8339	1.10
Mflv_5040	SSU ribosomal protein S17P	136.653	673.349	4.93
Mflv_5041	LSU ribosomal protein L29P	353.587	508.35	1.44
Mflv_5042	LSU ribosomal protein L16P	388.812	526.259	1.35
Mflv_5043	SSU ribosomal protein S3P	277.17	253.495	0.91
Mflv_5044	LSU ribosomal protein L22P	378.361	235.254	0.62
Mflv_5045	SSU ribosomal protein S19P	624.262	599.946	0.96
Mflv_5046	LSU ribosomal protein L2P	287.011	355.824	1.24
Mflv_5047	LSU ribosomal protein L23P	458.658	497.655	1.09
Mflv_5048	LSU ribosomal protein L4P	499.423	307.116	0.61
Mflv_5049	LSU ribosomal protein L3P	557.815	324.275	0.58
Mflv_5050	SSU ribosomal protein S10P	4166.75	812.025	0.19
Mflv_5051	Carboxylesterase, type B	12.1854	18.4188	1.51
Mflv_5052	cytochrome P450	27.3259	31.5429	1.15
Mflv_5053	cytochrome P450	27.218	31.5693	1.16
Mflv_5054	transcriptional regulator, TetR family	33.6485	33.5574	1.00
Mflv_5055	major facilitator superfamily MFS_1	14.5799	43.8005	3.00
Mflv_5056	glucose-methanol-choline oxidoreductase	13.0467	37.4316	2.87
Mflv_5057	glycosyl transferase, family 2	25.4311	35.5696	1.40
Mflv_5058	Creatininase	36.3477	42.2168	1.16
Mflv_5059	(S)-2-hydroxy-acid oxidase	62.0198	49.993	0.81
Mflv_5060	Radical SAM domain protein	43.7215	20.3966	0.47
Mflv_5061	conserved hypothetical protein	77.1037	47.9408	0.62
Mflv_5062	transcriptional regulator, TetR family	10.7513	15.0175	1.40
Mflv_5063	RNA polymerase, sigma-24 subunit, RpoE	75.8038	26.4546	0.35
Mflv_5064	Glyoxalase/bleomycin resistance protein/dioxygenase	23.2374	18.0031	0.77
Mflv_5065	protein of unknown function DUF222	9.73792	34.851	3.58
Mflv_5066	conserved hypothetical protein	86.7387	94.5646	1.09
Mflv_5067	hypothetical protein	0	410.334	Pyrene
Mflv_5068	FAD-dependent pyridine nucleotide-disulfide oxidoreductase"	51.0846	42.7915	0.84
Mflv_5069	transcriptional regulator, AsnC family	52.7333	32.9758	0.63

Mflv_5070	amidinotransferase	227.631	65.3898	0.29
Mflv_5071	aminotransferase	419.934	108.747	0.26
Mflv_5072	short-chain dehydrogenase/reductase SDR	34.3299	50.7315	1.48
Mflv_5073	conserved hypothetical protein	68.1642	55.6188	0.82
Mflv_5074	cutinase	798.343	98.8548	0.12
Mflv_5075	translation elongation factor 1A (EF-1A/EF-Tu)	469.687	751.502	1.60
Mflv_5076	translation elongation factor 2 (EF-2/EF-G)	388.166	444.297	1.14
Mflv_5077	SSU ribosomal protein S7P	5042.9	1303.93	0.26
Mflv_5078	SSU ribosomal protein S12P	9941.53	642.815	0.06
Mflv_5079	transcriptional regulator, TetR family	79.2227	46.5198	0.59
Mflv_5080	conserved hypothetical protein	13.206	79.5049	6.02
Mflv_5081	conserved hypothetical protein	121.619	43.4048	0.36
Mflv_5082	putative conserved transmembrane protein	128.442	78.4552	0.61
Mflv_5083	conserved hypothetical protein	576.452	79.3567	0.14
Mflv_5084	Enoyl-CoA hydratase/isomerase	29.9903	47.3596	1.58
Mflv_5085	PaaX domain protein, C-terminal domain	22.2021	38.3482	1.73
Mflv_5086	acyl-CoA dehydrogenase domain protein	30.8781	42.4556	1.37
Mflv_5087	putative alanine and proline rich membrane protein	70.8061	74.1994	1.05
Mflv_5088	Methyltransferase type 12	64.8397	71.7872	1.11
Mflv_5089	glycosyl transferase, family 2	24.2015	43.3228	1.79
Mflv_5090	formyltetrahydrofolate deformylase	41.1641	61.0393	1.48
Mflv_5091	Collagen triple helix repeat	1.45319	13.3502	9.19
Mflv_5092	methyltransferase FkbM family	57.786	57.9345	1.00
Mflv_5093	Endonuclease IV	107.357	43.2898	0.40
Mflv_5094	hypothetical protein	16.7571	33.6453	2.01
Mflv_5095	Na <sup>+</sup> /Ca <sup>+</sup> antiporter, CaCA family	26.9289	32.5643	1.21
Mflv_5096	beta'	275.062	346.102	1.26
Mflv_5097	DNA-directed RNA polymerase subunit beta	929.103	348.362	0.37
Mflv_5098	hypothetical protein	17.6693	30.1928	1.71
Mflv_5099	ABC transporter related protein	211.682	82.2399	0.39
Mflv_5100	LSU ribosomal protein L12P	34.6802	535.882	15.45
Mflv_5101	LSU ribosomal protein L10P	470.911	322.654	0.69
Mflv_5102	glucokinase	6.46789	19.109	2.95
Mflv_5103	putative malonyl CoA-acyl carrier protein transacylase FabD2 (MCT)	6.52809	22.3835	3.43
Mflv_5104	glycoside hydrolase, family 38	11.3143	24.8252	2.19
Mflv_5105	conserved hypothetical protein	85.8271	51.1928	0.60
Mflv_5106	Helix-turn-helix, type 11 domain protein	34.2539	32.1529	0.94
Mflv_5107	conserved hypothetical protein	23.7091	22.1142	0.93
Mflv_5108	protein of unknown function DUF664	12.5059	26.6146	2.13

Mflv_5109	transcriptional regulator, TetR family	30.267	26.8515	0.89
Mflv_5110	conserved hypothetical protein	37.5885	24.7544	0.66
Mflv_5111	ABC-1 domain protein	61.6746	38.4129	0.62
Mflv_5112	alpha/beta hydrolase fold protein	21.8281	31.5375	1.44
Mflv_5113	Cyclopropane-fatty-acyl-phospholipid synthase	136.854	106.941	0.78
Mflv_5114	conserved hypothetical protein	0	29.7488	Pyrene
Mflv_5115	LSU ribosomal protein L1P	81.1654	132.564	1.63
Mflv_5116	LSU ribosomal protein L11P	257.381	353.872	1.37
Mflv_5117	transcription antitermination protein nusG	329.001	147.193	0.45
Mflv_5118	protein translocase subunit secE/sec61 gamma	1347.14	165.402	0.12
Mflv_5119	conserved hypothetical protein	84.5841	86.2744	1.02
Mflv_5120	MaoC domain protein dehydratase	113.669	125.952	1.11
Mflv_5121	conserved hypothetical protein	264.238	192.244	0.73
Mflv_5122	LSU ribosomal protein L33P	613.605	532.056	0.87
Mflv_5123	beta-lactamase domain protein	72.1004	47.7663	0.66
Mflv_5124	conserved hypothetical protein	9.50185	33.0537	3.48
Mflv_5125	Enoyl-CoA hydratase/isomerase	76.4779	39.9554	0.52
Mflv_5126	Mg2+ transporter protein, CorA family protein	36.6498	30.8016	0.84
Mflv_5127	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	90.6889	39.9531	0.44
Mflv_5128	putative conserved membrane protein	21.3573	15.8031	0.74
Mflv_5129	DNA helicase/exodeoxyribonuclease V, gamma subunit	12.0417	27.6102	2.29
Mflv_5130	DNA helicase/exodeoxyribonuclease V, beta subunit	9.99066	27.1896	2.72
Mflv_5131	DNA helicase/exodeoxyribonuclease V, alpha subunit	8.55597	22.3441	2.61
Mflv_5132	conserved hypothetical protein 374	30.6865	36.1009	1.18
Mflv_5133	conserved hypothetical protein	55.8342	84.3585	1.51
Mflv_5134	Aminomethyltransferase	10.6246	28.2578	2.66
Mflv_5135	Flavin-containing monooxygenase	9.0779	35.5333	3.91
Mflv_5136	Alkanesulfonate monooxygenase	14.5223	32.1346	2.21
Mflv_5137	hypothetical protein	0	24.4535	Pyrene
Mflv_5138	hypothetical protein	5.15791	15.6542	3.03
Mflv_5139	MMPL domain protein	11.6243	32.0382	2.76
Mflv_5140	Chalcone and stilbene synthases domain protein	8.17537	41.2533	5.05
Mflv_5141	Isoprenylcysteine carboxyl methyltransferase	12.8417	28.5084	2.22
Mflv_5142	monooxygenase, FAD-binding protein	7.28539	24.5767	3.37
Mflv_5143	diguanylate cyclase with PAS/PAC sensor	34.8704	27.5128	0.79

Mflv_5144	glycogen/starch/alpha-glucan phosphorylase	21.1677	41.8844	1.98
Mflv_5145	conserved hypothetical protein	33.5755	17.4392	0.52
Mflv_5146	putative esterase	63.8199	38.9513	0.61
Mflv_5147	Acetamidase/Formamidase	14.7646	40.0207	2.71
Mflv_5148	short-chain dehydrogenase/reductase SDR	17.4991	81.3943	4.65
Mflv_5149	AAA ATPase	10.9529	29.193	2.67
Mflv_5150	conserved hypothetical protein; putative "winged helix" DNA-binding domain	19.7612	63.6652	3.22
Mflv_5151	conserved hypothetical protein	13.8139	24.6627	1.79
Mflv_5152	AAA ATPase	8.58763	26.4924	3.08
Mflv_5153	L-threonine aldolase	14.1205	22.0152	1.56
Mflv_5154	Alcohol dehydrogenase, zinc-binding domain	42.4209	33.1542	0.78
Mflv_5155	alpha/beta hydrolase fold protein	67.7024	26.5769	0.39
Mflv_5156	2-nitropropane dioxygenase, NPD	4.02697	24.9126	6.19
Mflv_5157	conserved hypothetical protein	11.3705	22.0613	1.94
Mflv_5158	conserved hypothetical protein	10.6611	20.3379	1.91
Mflv_5159	conserved hypothetical protein	8.55551	19.0903	2.23
Mflv_5160	secreted protein	18.9238	18.9418	1.00
Mflv_5161	molybdopterin oxidoreductase	10.3456	26.2249	2.53
Mflv_5162	luciferase family protein	24.3013	35.2847	1.45
Mflv_5163	protein of unknown function DUF894, DitE	40.2812	38.4318	0.95
Mflv_5164	conserved hypothetical protein	49.3985	41.8249	0.85
Mflv_5165	FAD-dependent pyridine nucleotide-disulfide oxidoreductase	51.2764	23.3593	0.46
Mflv_5166	transcriptional regulator, Fis family	16.1283	29.3011	1.82
Mflv_5167	acyl-CoA dehydrogenase domain protein	36.9854	18.8388	0.51
Mflv_5168	Integral membrane protein TerC	54.5198	45.3564	0.83
Mflv_5169	hypothetical protein	26.2581	31.2397	1.19
Mflv_5170	family	15.6551	29.8662	1.91
Mflv_5171	dihydroxyacid dehydratase	14.1629	42.8322	3.02
Mflv_5172	transcriptional regulator, TetR family	44.0443	50.4741	1.15
Mflv_5173	transcriptional regulator, TetR family	56.2219	53.435	0.95
Mflv_5174	diguanylate cyclase/phosphodiesterase with PAS/PAC and GAF sensor(s)	19.2316	33.2477	1.73
Mflv_5175	OsmC family protein	11.1841	4.31861	0.39
Mflv_5176	conserved hypothetical protein	18.7402	31.7599	1.69
Mflv_5177	ribonuclease H	38.8362	42.4647	1.09
Mflv_5178	hypothetical protein	21.8644	34.6065	1.58
Mflv_5179	PE-PPE, C-terminal domain protein	11.3516	32.241	2.84
Mflv_5180	NUDIX hydrolase	16.1261	20.3457	1.26

Mflv_5181	ADP-ribosylation/Crystallin J1	22.3346	28.2975	1.27
Mflv_5182	metallophosphoesterase	33.5877	33.2121	0.99
Mflv_5183	putative membrane protein	14.535	31.8287	2.19
Mflv_5184	putative membrane protein	54.443	34.7551	0.64
Mflv_5185	protein of unknown function DUF732	0	18.8045	Pyrene
Mflv_5186	L-carnitine dehydratase/bile acid-inducible protein F	8.77455	14.8207	1.69
Mflv_5187	VanW family protein	25.7738	24.9241	0.97
Mflv_5188	conserved hypothetical protein	96.7643	22.5448	0.23
Mflv_5189	ERCC4 domain protein	47.6959	34.6282	0.73
Mflv_5190	PilT protein domain protein	126.615	62.4706	0.49
Mflv_5191	protein of unknown function DUF1206	134.807	34.6007	0.26
Mflv_5192	peptidase S15	13.149	40.1935	3.06
Mflv_5193	conserved hypothetical protein	74.7353	49.5963	0.66
Mflv_5194	protein of unknown function DUF1445	36.622	26.4232	0.72
Mflv_5195	fatty acid desaturase	38.6969	53.204	1.37
Mflv_5196	transcriptional regulator, AbrB family	142.623	38.995	0.27
Mflv_5197	conserved hypothetical protein	164.679	21.4157	0.13
Mflv_5198	conserved hypothetical protein	9.55918	26.8878	2.81
Mflv_5199	plasmid pRIA4b ORF-3 family protein	22.5063	52.0379	2.31
Mflv_5200	PilT protein domain protein	53.9464	75.4813	1.40
Mflv_5201	conserved hypothetical protein	28.5368	62.5619	2.19
Mflv_5202	conserved hypothetical protein	28.7595	51.1558	1.78
Mflv_5203	conserved hypothetical protein	23.6645	77.2714	3.27
Mflv_5204	conserved hypothetical protein	24.3722	75.4333	3.10
Mflv_5205	AAA ATPase	30.3927	41.5391	1.37
Mflv_5206	Pseudogene	0	18.4887	Pyrene
Mflv_5207	hypothetical protein	25.4931	131.909	5.17
Mflv_5208	hypothetical protein	0	134.884	Pyrene
Mflv_5209	glycosyl transferase, family 51	17.4757	37.1221	2.12
Mflv_5210	protein kinase	127.761	46.0659	0.36
Mflv_5211	Death-on-curing protein	48.9745	31.0384	0.63
Mflv_5212	Diacylglycerol O-acyltransferase	101.281	41.0142	0.40
Mflv_5213	fatty acid desaturase	62.1476	69.4716	1.12
Mflv_5214	glycosidase, PH1107-related protein	17.5398	26.5539	1.51
Mflv_5215	conserved hypothetical protein; putative glycosyltransferase	37.0371	33.9751	0.92
Mflv_5216	glycosyl transferase, group 1	44.9134	44.6708	0.99
Mflv_5217	AMP-dependent synthetase and ligase	27.8557	42.9293	1.54
Mflv_5218	response regulator receiver and ANTAR domain protein	61.0873	29.551	0.48
Mflv_5219	putative GAF sensor protein	145.546	39.194	0.27

Mflv_5220	putative GAF sensor protein	42.2261	36.0053	0.85
Mflv_5221	conserved hypothetical protein	0	61.5717	Pyrene
Mflv_5222	fatty acid desaturase	90.1724	98.9484	1.10
Mflv_5223	alanine dehydrogenase/PNT domain protein	32.0921	42.7847	1.33
Mflv_5224	glycosyl transferase, group 1	80.1064	93.3241	1.17
Mflv_5225	hypothetical protein	0	62.0773	Pyrene
Mflv_5226	conserved hypothetical protein	87.6123	110.028	1.26
Mflv_5227	cold-shock DNA-binding protein family	1119.36	817.274	0.73
Mflv_5228	conserved hypothetical protein	111.287	118.869	1.07
Mflv_5229	peptidase S15	19.5335	30.6529	1.57
Mflv_5230	cold-shock DNA-binding protein family	3989.22	1271.04	0.32
Mflv_5231	Pseudogene	30.3415	39.2291	1.29
Mflv_5232	putative membrane transport protein	91.7272	29.7098	0.32
Mflv_5233	putative anti-sigma regulatory factor,	1008.97	94.0643	0.09
Mflv_5234	conserved hypothetical protein	916.455	79.4181	0.09
Mflv_5235	conserved hypothetical protein	153.036	34.8894	0.23
Mflv_5236	CsbD family protein	68.8475	20.188	0.29
Mflv_5237	serine/threonine protein kinase with extracellular ligand sensor(s)	12.6897	30.2198	2.38
Mflv_5238	transcriptional regulator, HxlR family	37.7538	33.4189	0.89
Mflv_5239	conserved hypothetical protein	32.0926	33.7947	1.05
Mflv_5240	D-isomer specific 2-hydroxyacid dehydrogenase,NAD-binding protein	12.7801	50.8243	3.98
Mflv_5241	hypothetical protein	47.0991	53.8378	1.14
Mflv_5242	transcriptional regulator, AraC family	9.70822	57.8744	5.96
Mflv_5243	short-chain dehydrogenase/reductase SDR	16.5945	38.489	2.32
Mflv_5244	PE-PPE, C-terminal domain protein	11.4718	42.623	3.72
Mflv_5245	Glucose/sorbosone dehydrogenases-like protein	11.1288	25.4074	2.28
Mflv_5246	fatty acid desaturase	94.9362	56.969	0.60
Mflv_5247	ferredoxin	195.086	54.196	0.28
Mflv_5248	protein of unknown function DUF520	66.4282	31.1868	0.47
Mflv_5249	Glycerol-3-phosphate dehydrogenase (NAD(P)(+))	58.1315	48.6841	0.84
Mflv_5250	hypothetical protein	521.947	36.9513	0.07
Mflv_5251	conserved hypothetical protein	17.4762	21.2832	1.22
Mflv_5252	Heat shock protein. Metallo peptidase. MEROPS family M48B	112.802	34.1423	0.30
Mflv_5253	Trans-hexaprenyltranstransferase	158.973	43.4569	0.27
Mflv_5254	geranylgeranyl reductase	26.2978	34.5637	1.31
Mflv_5255	conserved hypothetical protein	14.0335	26.4804	1.89
Mflv_5256	conserved hypothetical protein	148.928	100.927	0.68

Mflv_5257	Alpha/beta hydrolase fold-3 domain protein	38.3336	39.501	1.03
Mflv_5258	demethylmenaquinone methyltransferase	76.18	43.1193	0.57
Mflv_5259	O-methyltransferase domain protein	37.1406	27.8759	0.75
Mflv_5260	glycosyl transferase, group 1	8.97651	19.2424	2.14
Mflv_5261	conserved hypothetical protein	33.2657	28.7513	0.86
Mflv_5262	hypothetical protein	29.2875	21.295	0.73
Mflv_5263	2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylate synthase	37.0693	41.4533	1.12
Mflv_5264	alpha/beta hydrolase fold protein	37.4691	29.1305	0.78
Mflv_5265	conserved hypothetical protein	53.6555	21.0712	0.39
Mflv_5266	ThiJ/Pfpl domain protein	25.5113	25.7124	1.01
Mflv_5267	transcriptional regulator, AraC family with amidase-like domain	14.725	32.6168	2.22
Mflv_5268	Mandelate racemase/muconate lactonizing enzyme, C-terminal domain protein	25.5575	17.548	0.69
Mflv_5269	small multidrug resistance protein	240.902	38.9836	0.16
Mflv_5270	small multidrug resistance protein	49.5593	29.3556	0.59
Mflv_5271	AMP-dependent synthetase and ligase	20.6513	33.3264	1.61
Mflv_5272	transcriptional regulator, TetR family	8.53516	10.3107	1.21
Mflv_5273	conserved hypothetical protein	21.4711	25.612	1.19
Mflv_R0003	tRNA-Ala3	0	0	
Mflv_R0004	tRNA-Ile1	0	0	
Mflv_R0005	tRNA-Ser1	0	0	
Mflv_R0007	tRNA-Arg1	0	0	
Mflv_R0008	tRNA-Ser3	0	0	
Mflv_R0009	tRNA-Ser4	0	0	
Mflv_R0010	MiscRNA (ffs)	0	0	
Mflv_R0011	tRNA-Pro3	0	0	
Mflv_R0013	tRNA-Thr3	0	0	
Mflv_R0020	tRNA-Gln2	0	0	
Mflv_R0021	tRNA-Leu1	0	0	
Mflv_R0023	16S ribosomal RNA	0	0	
Mflv_R0024	23S ribosomal RNA	2946.71	4959.07	1.68
Mflv_R0025	5S ribosomal RNA	0	0	
Mflv_R0028	tRNA-His1	0	0	
Mflv_R0029	tRNA-Arg2	0	0	
Mflv_R0032	tRNA-Asn1	0	0	
Mflv_R0035	RNase P RNA	167376	58702	0.35
Mflv_R0038	5S ribosomal RNA	0	0	
Mflv_R0039	23S ribosomal RNA	2107.1	2998.59	1.42
Mflv_R0040	16S ribosomal RNA	0	0	
Mflv_R0041	tRNA-other	0	0	

Mflv_R0044	tRNA-Gly2	0	0	
Mflv_R0045	tRNA-Cys1	0	0	
Mflv_R0047	tRNA-Glu2	0	0	
Mflv_R0050	MiscRNA (ssrA)	0	0	
Mflv_R0052	tRNA-Trp1	0	0	
Mflv_R0053	tRNA-Met2	0	0	
Mflv_R0055	tRNA-Tyr1	0	0	