

Supplementary materials of the following paper:

Title – Guanine quadruplex DNA regulates gamma radiation response of genome functions in radioresistant bacterium *Deinococcus radiodurans*

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Table S1: Effect of NMM and gamma radiation in different combination on the expression profile of genes encoded on genome of *Deinococcus radiodurans*. Data presented here is from 1h PIR fraction (Irr) and respected SHAM controls (UnIrr) radiation treatment.

Gene_id	Product	NMM non treated FPKM values			NMM treated FPKM Values		
		UnIrr	Irr	Log2 fold change	UnIrr	Irr	Log2 fold change
DR_0001	DNA polymerase III subunit beta	90.1533	251.202	1.478395744	122.138	103.406	-0.240192228
DR_0002	chromosomal replication initiation protein	112.924	101.228	-0.157743739	48.5983	63.8615	0.394040591
DR_0003	hypothetical protein	50.2767	1388.06	4.787036162	36.7042	650.794	4.148183887
DR_0004	MutT/nudix family protein	5.2615	18.6643	1.826735341	17.7792	9.68996	-0.875627794
DR_0005	hypothetical protein	63.8453	234.82	1.878902966	93.7948	88.6292	-0.081725851
DR_0006	metal-dependent hydrolase	626.981	346.937	-0.853748016	274.577	153.699	-0.837103004
DR_0007	hypothetical protein	66.3058	156.78	1.241534552	141.049	135.884	-0.053820845
DR_0008	hypothetical protein	25.9638	50.5042	0.959901821	43.099	27.7308	-0.636165159
DR_0009	hypothetical protein	16.4317	73.8286	2.167698054	20.1118	32.09	0.674081581
DR_0011	hypothetical protein	326.538	305.715	-0.095063551	92.9064	158.449	0.770168667
DR_0012	chromosome partitioning protein	34.2224	83.7508	1.291162032	21.5229	39.1895	0.864594686
DR_0013	chromosome partitioning ATPase Soj	37.2986	90.4668	1.278266961	31.2146	43.1271	0.46637373
DR_0014	16S rRNA methyltransferase GidB	4.03699	23.2493	2.525835361	5.75431	11.8108	1.037391838
DR_0015	hypothetical protein	11.6864	15.8239	0.437274639	3.58682	30.3888	3.082762454
DR_0016	hypothetical protein	11.8403	27.2557	1.202852338	11.9294	9.17596	-0.378590476
DR_0017	hypothetical protein	29.5615	44.0588	0.575710726	5.60434	26.0189	2.214943583
DR_0018	hypothetical protein	18.8573	18.2277	-0.048990594	3.03612	18.2559	2.588062076
DR_0019	hypothetical protein	21.9758	27.7923	0.338769546	22.9872	23.9435	0.058803311
DR_0020	ribonuclease II family protein	87.0708	52.164	-0.739134477	21.3521	36.7898	0.784927866
DR_0021	hypothetical protein	213.367	174.269	-0.292021105	454.76	60.5598	-2.908673017
DR_0022	hypothetical protein	15.4985	139.265	3.167632228	26.879	68.4984	1.349590824
DR_0023	5-(carboxyamino)imidazole ribonucleotide mutase	15.4544	77.238	2.321293163	24.2473	31.7711	0.389890932
DR_0024	5-(carboxyamino)imidazole ribonucleotide synthase	57.0839	64.4656	0.175445614	128.148	30.7204	-2.060542057
DR_0025	hypothetical protein	117.172	78.4807	-0.578218043	135.26	30.3647	-2.155268238
DR_0026	methyltransferase tRNA uridine 5- carboxymethylaminomethyl modification enzyme GidA	8.74112	50.0147	2.516462136	19.1699	28.1422	0.553892304
DR_0027	aminotransferase	60.4259	97.6646	0.692668674	99.6516	34.6168	-1.525420602
DR_0028	2-oxo acid dehydrogenase, E1 component subunit alpha	12.5538	10.8131	-0.215343942	12.1319	14.8662	0.293230411
DR_0029	2-oxo acid dehydrogenase, E1 component subunit beta	5.39594	21.4843	1.993336561	4.89721	16.785	1.77714057
DR_0030	hypothetical protein	2.56718	17.7576	2.790180249	5.52323	15.705	1.507639832
DR_0031	branched-chain alpha-keto acid dehydrogenase subunit E2	6.13958	16.3878	1.41641032	8.36327	16.7871	1.005213979
DR_0032	hypothetical protein	7.83163	32.849	2.06846494	7.7673	18.8781	1.281228477
DR_0033	hypothetical protein	3.14846	9.92776	1.656821901	8.91639	8.83553	-0.013143043
DR_0034	hypothetical protein	11.1807	28.6305	1.356542351	7.52256	14.5698	0.95368546

DR_0035	adenylosuccinate synthetase	10.4559	58.992	2.496202073	11.7304	35.1461	1.5831124
DR_0036	GTP cyclohydrolase I	4.10018	45.2335	3.463632479	9.90237	33.5632	1.761034511
DR_0037	hypothetical protein	13.9476	9.8359	-0.503887923	3.11905	7.95129	1.350082259
DR_0038	serine hydroxymethyltransferase	124.028	159.589	0.363695361	190.993	56.8862	-1.747369146
DR_0039	hypothetical protein	11.93	39.8825	1.741161804	23.5698	15.8661	-0.57099197
DR_0040	hypothetical protein	42.4337	34.4171	-0.302084939	52.9817	26.2595	-1.012654689
DR_0041	hypothetical protein	32.4923	67.8997	1.06330733	64.8042	33.8331	-0.937651946
DR_0042	hypothetical protein	46.2017	60.553	0.390252501	75.5843	40.5353	-0.898907776
DR_0043	hypothetical protein	3.56232	21.2266	2.574984281	14.3814	11.7667	-0.289494356
DR_0044	N-acylamino acid racemase	7.81925	16.7781	1.10147721	34.2096	15.5177	-1.140486495
DR_0045	hypothetical protein	25.3249	23.9845	-0.078454208	33.2329	12.6874	-1.389215741
DR_0046	hypothetical protein	16.6028	19.5933	0.238933837	24.1572	8.73458	-1.467643007
DR_0047	hypothetical protein	27.9431	24.139	-0.211126171	15.7748	30.0724	0.930818296
DR_0048	hypothetical protein	8.70459	47.4358	2.446128027	9.16074	23.0855	1.333450931
DR_0049	hypothetical protein	28.0348	110.635	1.98051718	40.7079	51.0828	0.327528807
DR_0050	hypothetical protein	35.7378	170.571	2.254849654	19.2815	73.3011	1.926617558
DR_0051	HesB/YadR/YfhF family protein	42.8501	212.903	2.312825803	57.3891	96.2314	0.745730968
DR_0052	hypothetical protein	11.8899	149.918	3.656365125	10.4632	63.4785	2.600943894
DR_0053	hypothetical protein	15.9856	226.66	3.825685013	29.2129	71.5912	1.293176679
DR_0054	hypothetical protein	20.5059	19.3022	-0.087273774	40.2136	12.6995	-1.662911798
DR_0055	repressor protein	22.1589	16.6109	-0.415756023	28.8267	10.2898	-1.486190749
DR_0056	benzoate membrane transport protein	5.74676	14.4653	1.331775539	10.259	9.81574	-0.06372117
DR_0057	hypothetical protein	1.83805	5.80589	1.659341226	7.37971	9.96637	0.433504011
DR_0058	serine/threonine protein kinase	6.49936	19.8247	1.608929468	10.6432	13.2568	0.316800593
DR_0059	hypothetical protein	8.76673	43.7827	2.320250204	16.9941	17.5266	0.044512194
DR_0060	hypothetical protein	8.7474	23.1883	1.406470884	10.4432	14.9624	0.518777756
DR_0061	hypothetical protein	3.05598	18.0192	2.559827954	4.31472	9.38017	1.120347129
DR_0062	ABC transporter ATP-binding protein	18.7464	26.4772	0.498136992	20.0448	18.7654	-0.09515298
DR_0063	hypothetical protein	6.1983	14.0919	1.184921654	13.4092	7.04219	-0.929127111
DR_0064	hypothetical protein	150.355	78.3451	-0.940457894	163.872	31.3697	-2.385125732
DR_0065	ATP-dependent helicase	13.3621	27.4245	1.037318557	21.2331	17.4396	-0.283948067
DR_0066	aminoglycoside 3'-phosphotransferase	7.0587	40.036	2.50382343	21.913	23.3115	0.089254829
DR_0067	hypothetical protein	72.4848	99.0864	0.45100856	64.625	36.3307	-0.830903212
DR_0068	hypothetical protein	24.2601	111.426	2.199428506	55.7853	29.0881	-0.939455943
DR_0069	hypothetical protein	4.73699	92.1534	4.281994864	6.95812	29.5212	2.084981901
DR_0070	hypothetical protein	63.8175	1773.14	4.796210547	98.0293	524.962	2.420928069
DR_0071	peptidyl-prolyl cis-trans isomerase	30.4826	483.421	3.987222278	22.0145	238.79	3.439216438
DR_0072	hypothetical protein	34.1149	42.4783	0.316324043	51.3859	23.2902	-1.141649518
DR_0073	phosphate acetyltransferase	15.2011	21.8431	0.523001894	11.2916	10.6689	-0.081838491
DR_0074	TetR family transcriptional regulator	21.7099	54.4574	1.326775024	32.0664	21.5893	-0.570745929
DR_0075	hypothetical protein	55.2245	69.9225	0.340448316	40.746	40.5678	-0.006323371
DR_0076	molybdopterin biosynthesis MoeA	37.5964	23.4899	-0.678553953	87.6753	19.4782	-2.170310099

DR_0077	shikimate 5-dehydrogenase	22.3862	29.677	0.406735604	18.8189	21.4941	0.191758401
DR_0078	N-acetyl-gamma-glutamyl-phosphate reductase	61.8169	33.0489	-0.903399054	39.056	20.0498	-0.961956355
DR_0079	MutT/nudix family protein	146.931	83.5456	-0.814503058	133.365	48.9706	-1.445392321
DR_0080	ornithine carbamoyltransferase	148.37	55.7465	-1.412246278	166.057	25.113	-2.725172251
DR_0081	hypothetical protein	47.05	42.1163	-0.159816025	77.6112	25.1947	-1.623144584
DR_0082	hypothetical protein	9.06251	21.3728	1.237793337	6.88882	21.4906	1.641376975
DR_0083	2-oxoglutarate dehydrogenase, dihydrolipoamide succinyltransferase E2 component	865.743	683.67	-0.340638697	571.512	232.137	-1.299807301
DR_0084	GTPase ObgE	259.908	243.53	-0.093901535	151.879	186.952	0.2997455
DR_0085	50S ribosomal protein L27	2343.68	6467.09	1.464341087	4400.73	2696.37	-0.706724381
DR_0086	50S ribosomal protein L21	869.334	3489.17	2.004901415	1075.58	929.582	-0.210460796
DR_0087	transcriptional regulator NrdR	54.7831	46.9312	-0.223183556	60.1856	29.7195	-1.018008505
DR_0088	short chain dehydrogenase/reductase family oxidoreductase	20.0282	39.8801	0.99363626	28.2162	15.5285	-0.86160523
DR_0089	hypothetical protein	2.45166	6.93113	1.49933166	0.752629	4.71875	2.648393954
DR_0090	hypothetical protein	1.12374	7.60889	2.759377728	1.28707	2.35368	0.870827669
DR_0091	hypothetical protein	2.0924	8.88707	2.086549177	0.88711	5.55021	2.645357447
DR_0092	MutT/nudix family protein	23.3628	10.8488	-1.106677717	48.7616	14.5975	-1.740024154
DR_0093	phytoene dehydrogenase	14.0441	25.8512	0.880267077	30.0208	20.0084	-0.585356618
DR_0094	hypothetical protein	738.818	283.538	-1.381676916	521.988	151.354	-1.786089838
DR_0095	ABC transporter ATP-binding protein	146.192	42.1601	-1.793914171	48.6929	33.0487	-0.559117903
DR_0096	ABC transporter ATP-binding protein	299.552	38.9179	-2.944300696	147.804	37.8054	-1.967021089
DR_0097	hypothetical protein	35.1298	31.418	-0.161104018	25.4808	12.9629	-0.975022066
DR_0098	30S ribosomal protein S6	1466.09	5646.32	1.945337224	1079.68	1912.55	0.824893681
DR_0099	single-stranded DNA-binding protein	2104.24	10104.1	2.263569656	983.502	3792.62	1.947194937
DR_0101	30S ribosomal protein S18	972.343	5022.79	2.36895173	648.009	2709	2.063674638
DR_0102	50S ribosomal protein L9	1404.7	8219.38	2.548767525	1388.25	3584.61	1.368548769
DR_0103	hypothetical protein	3.46521	46.9701	3.760727974	5.3751	37.4757	2.801591926
DR_0104	hypothetical protein	4.12037	33.0593	3.004210378	10.2965	30.1271	1.54890779
DR_0105	hypothetical protein	185.119	67.8466	-1.448104552	115.822	51.7007	-1.163653595
DR_0106	hypothetical protein	26.4523	41.4861	0.649234871	21.7575	22.4712	0.046564373
DR_0107	hypothetical protein	21.7916	35.5315	0.705326468	50.6943	20.6656	-1.29459229
DR_0108	hypothetical protein	9.7773	26.5993	1.443880254	12.1681	17.5822	0.531011687
DR_0109	hypothetical protein	2.5632	6.24552	1.284875642	12.419	4.41493	-1.492086541
DR_0110	hypothetical protein	235.021	145.631	-0.690472183	109.231	69.015	-0.662400492
DR_0111	thymidylate kinase	53.1659	71.514	0.427724486	82.9419	20.8865	-1.989530339
DR_0112	glutamine cyclotransferase	50.7887	66.6587	0.392285635	66.7659	34.3648	-0.958179886
DR_0113	short chain dehydrogenase	20.8177	33.5547	0.688704174	33.6038	21.8195	-0.623006343
DR_0114	enoyl-CoA hydratase	136.955	121.797	-0.169223339	275.262	48.3941	-2.507902383
DR_0115	hypothetical protein	741.519	562.131	-0.399577282	236.474	190.594	-0.311178867
DR_0116	hypothetical protein	900.586	638.608	-0.495933425	367.613	351.98	-0.062694331
DR_0117	acetyl-CoA carboxylase biotin carboxylase subunit	39.3632	114.817	1.544416852	22.2271	51.0448	1.199444269

DR_0118	acetyl-CoA carboxylase biotin carboxyl carrier protein subunit	19.7951	107.222	2.43738569	29.3143	43.8442	0.580781399
DR_0119	elongation factor P	580.865	2096.51	1.851714904	404.437	793.331	0.972007936
DR_0120	smf protein	2.78982	8.15082	1.546773165	0	6.67835	#DIV/0!
DR_0121	hypothetical protein	46.7314	34.6431	-0.431824225	44.5824	22.9106	-0.960459042
DR_0122	hypothetical protein	2.49746	16.5266	2.726256474	5.32497	7.4264	0.479889626
DR_0123	phosphoribosylanthranilate isomerase	733.361	621.695	-0.23831657	1951.26	393.42	-2.31026382
DR_0124	hypothetical protein	7.30561	24.6979	1.757311734	33.9881	15.5792	-1.125408563
DR_0125	acetyltransferase	18.9948	28.6442	0.592638524	21.5738	27.6791	0.359516719
DR_0127	hypothetical protein	70.5986	133.456	0.918652689	45.3569	80.744	0.832033019
DR_0128	grpE protein	177.218	138.094	-0.359874508	65.8621	92.217	0.48558422
DR_0129	molecular chaperone DnaK	379.332	556.887	0.553923534	347.283	265.122	-0.389455399
DR_0130	coproporphyrinogen III oxidase	2.43933	29.029	3.572938026	5.47931	16.1836	1.562466434
DR_0131	hypothetical protein	25.773	35.5457	0.463814568	10.6021	26.6424	1.329373996
DR_0132	hypothetical protein	83.2282	53.806	-0.629305377	30.2429	47.9542	0.665060691
DR_0133	lipase/esterase	10.5772	10.8251	0.033422585	9.45897	9.39058	-0.010468828
DR_0134	hypothetical protein	8.25159	19.9041	1.270321594	11.4695	17.4872	0.608496808
DR_0135	hypothetical protein	10.2223	24.6967	1.272598443	7.6002	22.0808	1.538683154
DR_0136	hypothetical protein	17.3005	48.1006	1.475241156	25.1772	13.4172	-0.908034217
DR_0137	hypothetical protein	5.81494	29.1192	2.32413451	7.86316	20.8688	1.408166529
DR_0138	hypothetical protein	26.5938	128.846	2.276485905	37.1697	90.6653	1.286423455
DR_0139	GTP-binding protein HflX	178.967	1275.04	2.832777011	254.864	1533.8	2.589310865
DR_0140	hypothetical protein	56.1623	203.374	1.856461328	75.0574	321.48	2.098662766
DR_0143	hypothetical protein	20.1678	38.8235	0.944876469	22.3141	36.68	0.71703802
DR_0144	transposase	9.82496	33.5545	1.771982821	11.4863	39.9144	1.796995177
DR_0145	hypothetical protein	6.08919	9.97586	0.712190889	15.175	6.97257	-1.121934098
DR_0146	hypothetical protein	20.9522	20.6756	-0.01917254	20.9177	11.3071	-0.887495269
DR_0147	hypothetical protein	92.9296	74.8294	-0.312532991	57.3689	121.664	1.084561581
DR_0148	valyl-tRNA synthetase	48.9168	46.0603	-0.086806222	13.568	31.935	1.234930375
DR_0149	MutT/nudix family protein	52.855	69.4994	0.394960568	12.3081	54.3669	2.143120498
DR_0150	hypothetical protein	20.3431	67.6806	1.734202816	34.7067	23.0375	-0.591230031
DR_0151	NifS-like protein	17.2317	12.15	-0.504108724	15.1619	9.73911	-0.638588711
DR_0152	hypothetical protein	134.393	24.5341	-2.453597742	49.2812	18.0975	-1.44524697
DR_0153	riboflavin-specific deaminase	39.5767	23.9524	-0.724481103	26.4291	7.79746	-1.761051145
DR_0154	riboflavin synthase subunit alpha	55.5999	17.5013	-1.667620198	37.2416	11.4991	-1.695394106
DR_0155	GTP cyclohydrolase II/3,4-dihydroxy-2-butanone-4-phosphate synthase	53.2025	16.8646	-1.657495939	21.5673	14.0017	-0.623243577
DR_0156	6,7-dimethyl-8-ribityllumazine synthase	71.1884	25.3046	-1.492242507	20.4609	31.1081	0.604420676
DR_0157	hypothetical protein	14.4301	20.1213	0.47964222	9.96327	14.9413	0.584614453
DR_0158	branched-chain amino acid dehydrogenase	11.0994	25.3678	1.192516717	13.7743	8.74722	-0.65508252
DR_0159	uridine kinase	48.4613	57.4298	0.244966431	63.1768	51.9753	-0.281568684
DR_0160	hypothetical protein	14.8476	82.446	2.473219751	7.80193	58.8894	2.916105015
DR_0161	hypothetical protein	5.2358	56.9924	3.444287653	2.5334	39.1856	3.951176799

DR_0162	hypothetical protein	30.2397	85.2853	1.495853269	65.5571	43.2826	-0.598964872
DR_0163	ABC transporter ATP-binding protein	11.2858	37.7245	1.740993091	14.9093	30.7109	1.042538268
DR_0164	endo alpha-1,4 polygalactosaminidase	2.95507	9.50663	1.685741706	4.55953	8.72244	0.935846651
DR_0165	acyl-peptide hydrolase	11.5167	11.3954	-0.015275819	19.7783	10.1591	-0.961145829
DR_0166	acyl-CoA-binding protein	178.291	164.016	-0.12039732	228.771	57.3066	-1.997130973
DR_0167	hypothetical protein	56.9792	63.2037	0.149573651	25.0561	55.3732	1.144026022
DR_0168	dihydropteroate synthase	5.44151	21.894	2.008456602	14.6121	16.1112	0.140900421
DR_0169	dihydroneopterin aldolase	20.4512	30.2092	0.562802482	57.3891	16.4606	-1.801759826
DR_0170	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokinase	3.9107	15.1178	1.950749436	5.88376	5.67776	-0.051416533
DR_0171	hypothetical protein	8.33075	29.9832	1.847636076	14.3191	19.9917	0.48146034
DR_0172	hypothetical protein	11.7571	46.7551	1.991591492	13.717	28.661	1.063123958
DR_0174	50S ribosomal protein L13	218.741	3326.14	3.92655333	338.426	1077.44	1.670695217
DR_0175	30S ribosomal protein S9	223.778	3666.36	4.034208337	302.488	1391.7	2.201898437
DR_0176	D-alanyl-D-alanine carboxypeptidase	5.84451	37.162	2.668674167	14.1566	21.5568	0.606668219
DR_0177	transposase	52.7383	40.2508	-0.38983361	32.8241	34.0074	0.051093256
DR_0178	transposase	27.1914	32.8598	0.273173266	23.8404	27.1363	0.186815583
DR_0179	putative deoxyribonucleotide triphosphate pyrophosphatase	4.52862	43.1249	3.251377719	6.28099	25.1573	2.001913216
DR_0180	RNA polymerase sigma-E factor	3.42675	37.0914	3.436171874	2.6184	17.232	2.718332742
DR_0181	hypothetical protein	14.7571	21.0237	0.510607357	0	25.1134	#DIV/0!
DR_0182	glutamate synthase subunit beta	74.196	11.6647	-2.669192208	14.2262	10.3356	-0.460928209
DR_0183	glutamate synthase large subunit	156.316	11.5224	-3.761952303	28.6856	11.7162	-1.291821968
DR_0184	enoyl-CoA hydratase	5.82655	5.5511	-0.069868209	4.18197	4.60587	0.139290979
DR_0185	hypothetical protein	14.8905	32.7152	1.135568892	9.57213	23.7898	1.313431248
DR_0186	exodeoxyribonuclease VII large subunit	4.50858	19.4134	2.106307783	5.6867	8.40504	0.563662988
DR_0187	sanA protein	4.75163	28.6227	2.590665363	5.45573	15.944	1.547169462
DR_0188	hypothetical protein	7.03599	37.327	2.407394225	11.3769	20.606	0.856956976
DR_0189	thiol:disulfide interchange protein	19.0777	74.6974	1.969170777	21.0097	30.5127	0.538354285
DR_0190	hypothetical protein	21.2837	22.8842	0.104602885	15.7756	15.5382	-0.02187549
DR_0191	glycogen debranching enzyme-like protein	6.22786	15.8296	1.345816382	6.7041	8.71492	0.378443752
DR_0192	MutT/nudix family protein	59.9523	61.7085	0.041654124	93.7948	34.2765	-1.452288139
DR_0193	hypothetical protein	95.1745	78.6199	-0.275680557	159.156	53.4848	-1.573240695
DR_0194	hypothetical protein	3793.18	570.59	-2.732881466	3844.69	660.8	-2.540581686
DR_0195	hypothetical protein	0.749159	9.70789	3.69581391	1.28707	8.47324	2.718823214
DR_0196	anthranilate synthase component I	2.69803	11.7265	2.119794182	2.74004	6.5333	1.253614934
DR_0197	hypothetical protein	40.4186	54.7856	0.43877739	43.0783	24.6613	-0.804712466
DR_0198	recombination protein RecR	58.0789	296.401	2.351464281	44.1735	86.2084	0.964647304
DR_0199	hypothetical protein	89.7949	361.672	2.009976498	156.838	50.3483	-1.639260178
DR_0200	Lpr/AsnC family transcriptional regulator	10.701	41.3267	1.949328545	19.7824	27.1955	0.459150486
DR_0201	hypothetical protein	23.7177	34.9599	0.559736945	39.9114	28.9169	-0.464887988
DR_0202	hypothetical protein	20.0962	9.38983	-1.097751784	3.70014	8.048	1.121050447
DR_0203	hypothetical protein	3.64766	25.1782	2.787131981	4.14403	23.5846	2.50873878

DR_0204	hypothetical protein	6.62926	18.6627	1.493237979	10.2669	31.2936	1.607866997
DR_0205	ABC transporter ATP-binding protein	3.38672	15.4511	2.18974893	3.81341	10.4058	1.448234328
DR_0206	hypothetical protein	8.95824	35	1.966067699	11.7832	49.3372	2.065944452
DR_0207	hypothetical protein	10.0129	21.396	1.095481232	0	24.7691	#DIV/0!
DR_0208	hypothetical protein	52.5367	73.0186	0.474938425	69.5339	39.8142	-0.80443344
DR_0209	tRNA (uracil-5-)-methyltransferase Gid	35.3785	56.4013	0.672855535	29.9204	25.5067	-0.230253204
DR_0210	hypothetical protein	6.30055	10.2293	0.699157746	7.15468	7.50741	0.069428032
DR_0211	hypothetical protein	29.5835	22.3706	-0.403188795	45.1743	15.5915	-1.534742515
DR_0212	hypothetical protein	17.8618	130.435	2.868381665	77.6678	25.2751	-1.619599801
DR_0213	hypothetical protein	5.91014	4.47371	-0.401720566	9.11905	6.70957	-0.442663225
DR_0214	hypothetical protein	67.3415	75.6979	0.168757421	81.5474	41.3746	-0.978893515
DR_0215	class V aminotransferase	145.544	116.652	-0.319244324	125.684	60.9804	-1.043383483
DR_0216	hypothetical protein	369.138	312.934	-0.238301845	360.605	95.7561	-1.912983101
DR_0217	thiosulfate sulfurtransferase	1902.03	1032.11	-0.881943263	1128.86	488.416	-1.208684208
DR_0218	hypothetical protein	188.179	254.743	0.436936865	591.755	100.344	-2.560045637
DR_0219	hypothetical protein	693.733	653.176	-0.086908731	233.984	1669.03	2.834528101
DR_0220	amidophosphoribosyltransferase	18.701	94.5194	2.337495054	23.7871	49.6116	1.060498089
DR_0221	hypothetical protein	43.8729	77.4124	0.819234606	46.7128	94.7045	1.019615055
DR_0222	phosphoribosylformylglycinamide synthase II	15.3516	51.9301	1.758181977	9.23486	31.4694	1.768787677
DR_0223	phosphoribosylformylglycinamide synthase I	34.1774	65.2729	0.933441488	20.522	28.931	0.495444853
DR_0224	hypothetical protein	148.882	159.662	0.100851647	29.5189	137.038	2.214865135
DR_0225	hypothetical protein	664.692	410.979	-0.693621313	40.5189	638.957	3.979051931
DR_0226	phosphoribosylaminoimidazole-succinocarboxamide synthase	42.6513	114.022	1.418650592	20.9836	71.8855	1.776438583
DR_0227	hypothetical protein	74.6302	146.367	0.971758862	43.8624	119.108	1.441213658
DR_0228	ApaG	48.7009	23.733	-1.037053956	46.5712	15.4523	-1.591616464
DR_0229	endoglucanase	112.428	182.37	0.697867044	84.8114	49.1833	-0.786089662
DR_0230	hypothetical protein	116.664	66.4925	-0.811095918	87.9615	58.0571	-0.599399697
DR_0231	RNA methyltransferase	79.8752	59.0008	-0.437013122	46.359	35.8084	-0.372551389
DR_0232	hypothetical protein	78.5628	48.6483	-0.691456957	9.98855	46.1493	2.207961597
DR_0233	ArsR family transcriptional regulator	13.9715	42.2432	1.596232207	0	25.0603	#DIV/0!
DR_0234	hypothetical protein	28.9546	46.6069	0.68675099	33.3195	37.9242	0.186751996
DR_0235	6-aminohexanoate-cyclic-dimer hydrolase	51.7919	28.3019	-0.871827576	34.272	16.8773	-1.021946262
DR_0236	aminopeptidase	34.2787	41.8623	0.288339181	19.8623	16.5701	-0.261450383
DR_0237	cyclophilin-type peptidyl-prolyl cis-trans isomerase	812.442	635.246	-0.354949437	432.206	223.767	-0.949721809
DR_0239	hypothetical protein	21.4851	35.3003	0.716343952	25.8499	15.3697	-0.750069694
DR_0240	hypothetical protein	8.4806	33.1447	1.966539951	6.96758	16.8225	1.271662554
DR_0241	hypothetical protein	3.04929	18.8359	2.6269397	7.52256	15.8944	1.079222943
DR_0242	hypothetical protein	8.50276	25.31	1.573704386	0	23.6029	#DIV/0!
DR_0243	arginine decarboxylase	42.0479	70.2098	0.739638669	25.9418	36.2653	0.483311197
DR_0244	hypothetical protein	10.5542	32.2307	1.610618294	28.1202	13.4861	-1.060133655
DR_0245	hemK protein	6.9006	25.4689	1.883942938	7.15468	25.1498	1.81358778

DR_0246	Jag-like protein	48.4048	95.5888	0.981691472	77.5332	34.195	-1.181028821
DR_0247	4'-phosphopantetheinyl transferase	18.514	32.8086	0.825457406	17.4512	16.5926	-0.072786275
DR_0248	hypothetical protein	15.2384	30.9723	1.023267091	33.6142	17.7699	-0.919635252
DR_0249	oxidoreductase	11.1799	9.42643	-0.246123885	7.55117	8.6329	0.19314508
DR_0250	hypothetical protein	17.6938	55.8966	1.659516611	35.6238	34.1445	-0.06118821
DR_0252	hypothetical protein	173.929	165.746	-0.069524446	455.407	104.535	-2.123170406
DR_0253	hypothetical protein	12.0227	15.7835	0.392656233	22.1441	29.8431	0.430475043
DR_0254		1.97E-05	1.30E-102	-322.8267092	47.3911	5.33E-05	-19.76204918
DR_0256	pyruvate dehydrogenase complex, dihydrolipoamide acetyltransferase E2 component	48.4074	342.897	2.824475769	22.3327	203.722	3.189372199
DR_0257	pyruvate dehydrogenase subunit E1	33.1794	469.412	3.822495021	35.6175	339.069	3.250920727
DR_0258	multidrug-efflux transporter putative	27.6184	57.3191	1.053386214	80.2571	42.6972	-0.910487563
DR_0259	hypothetical protein	16.0303	40.4113	1.333957337	58.3798	25.4759	-1.196336154
DR_0260	CynX-related transport protein	2.68992	5.28335	0.973889719	2.09239	4.11922	0.9772194
DR_0261	MutT/nudix family protein	1.91131	9.12086	2.25460807	3.32329	6.04162	0.862323253
DR_0262	ABC transporter periplasmic substrate-binding protein	21.7777	61.3938	1.495241374	12.6683	35.3114	1.478911084
DR_0263	hypothetical protein	85.4401	235.456	1.462472246	139.714	61.809	-1.176587764
DR_0264	glycogen operon protein GlgX	28.1232	100.244	1.833683222	4.11838	63.8227	3.953920785
DR_0265	histidine utilization repressor HutC	55.9103	80.8512	0.5321551	54.9644	40.2947	-0.447907407
DR_0267	hypothetical protein	13.1476	34.5709	1.394758692	18.5128	16.8589	-0.135012707
DR_0268	hypothetical protein	90.3075	53.6359	-0.751646848	168.857	20.5142	-3.041107189
DR_0269	hypothetical protein	297.399	678.418	1.189774652	232.078	228.732	-0.020951552
DR_0270	ribonuclease Z	106.898	20.6153	-2.3744475	23.958	19.7817	-0.276341064
DR_0271	hypothetical protein	7.46834	9.7684	0.387334669	5.08772	7.47449	0.55495587
DR_0272	hypothetical protein	15.591	12.484	-0.320633202	12.4948	11.669	-0.098646877
DR_0273	hypothetical protein	6.6438	5.03099	-0.401166322	3.29929	8.99868	1.447557798
DR_0274	MutT/nudix family protein	6.87501	7.51186	0.127808363	1.85007	11.4013	2.62354657
DR_0275	hypothetical protein	9.75063	19.29	0.984285802	14.3361	7.15241	-1.003151262
DR_0276	hypothetical protein	27.6403	16.6558	-0.730748624	24.1187	9.30362	-1.374288071
DR_0277	gluconolactonase	22.7191	20.388	-0.156185426	18.588	14.0219	-0.406689699
DR_0278	phosphoglycerate mutase	0.882666	8.70769	3.302350516	0	6.68188	#DIV/0!
DR_0279	acyl-CoA thioesterase	27.3219	19.1744	-0.51087638	31.3705	19.93	-0.654466814
DR_0280	branched-chain amino acid ABC transporter periplasmic amino acid-binding protein	6.34118	8.76118	0.466373863	4.42821	12.7959	1.530886077
DR_0281	branched-chain amino acid ABC transporter permease	5.82413	9.71837	0.738671802	10.9015	12.3809	0.183589534
DR_0282	branched-chain amino acid ABC transporter permease	4.58867	16.0488	1.806317466	8.17269	9.33436	0.191740097
DR_0283	ABC transporter ATP-binding protein	21.3913	20.6124	-0.053511667	37.8301	18.1829	-1.056952276
DR_0284	ABC transporter ATP-binding protein	4.42327	5.93522	0.424188199	5.06267	4.16757	-0.280692017
DR_0285	hypothetical protein	6.2663	17.0315	1.442519756	16.4537	14.355	-0.196858714
DR_0286	hypothetical protein	5.45936	17.4259	1.67442943	15.9562	13.2294	-0.27036948
DR_0287	2-oxoglutarate dehydrogenase subunit E1	307.23	221.053	-0.474926784	267.789	100.388	-1.415509875
DR_0288	hypothetical protein	13.6318	21.4113	0.651396318	24.99	8.06083	-1.6323506

DR_0289	endonuclease III	3.893	22.6628	2.541371868	0	17.1382	#DIV/0!
DR_0290	hypothetical protein	1.35162	13.7081	3.342267113	3.24917	13.2027	2.022689862
DR_0291	hypothetical protein	347.932	423.954	0.285102365	337.442	136.598	-1.30470319
DR_0292	hypothetical protein	845.433	349.82	-1.273077653	353.389	239.024	-0.564101649
DR_0293	HAD superfamily hydrolase	27.2968	44.8938	0.717784383	4.35169	33.8673	2.960245283
DR_0294	putative nicotinate phosphoribosyltransferase	46.1032	42.1576	-0.129074153	20.1787	21.9787	0.123272823
DR_0295	phosphoprotein phosphatase	36.2754	32.8187	-0.14447343	17.0701	22.1323	0.374681875
DR_0296	hypothetical protein	91.7526	74.0006	-0.310212072	72.4194	23.2517	-1.639040024
DR_0297	UDP-N-acetylmuramoylalanyl-D- glutamate--2,6-diaminopimelate ligase	19.2477	33.8665	0.815172835	14.6853	23.6831	0.689485197
DR_0298	deoxyguanosine kinase/deoxyadenosine kinase subunit	6.49596	31.7133	2.287473354	14.9814	26.2139	0.807159559
DR_0299	deoxyguanosine kinase/deoxyadenosine kinase subunit	33.7677	93.3013	1.466253266	31.8792	44.2568	0.473283715
DR_0301	hypothetical protein	230.731	261.058	0.178158519	77.5922	89.4295	0.204839178
DR_0302	glucosamine--fructose-6-phosphate aminotransferase	375.186	125.164	-1.583786325	69.2008	56.3829	-0.295531033
DR_0304	hypothetical protein	77.5343	128.905	0.733401641	88.9289	123.226	0.470582443
DR_0305	30S ribosomal protein S12	299.949	2863.22	3.2548494	187.993	912.887	2.279757346
DR_0306	30S ribosomal protein S7	146.791	2000.56	3.768568476	105.799	823.022	2.959605004
DR_0307	elongation factor G	501.703	2680.08	2.417370596	206.216	1182.73	2.519892586
DR_0308	hypothetical protein	137.128	238.319	0.797370792	111.145	128.561	0.210010008
DR_0309	elongation factor Tu	1845.66	6243.66	1.758255167	726.307	2710.95	1.900147115
DR_0310	30S ribosomal protein S10	2391.95	5856.76	1.291915544	198.666	5670.21	4.834985274
DR_0311	50S ribosomal protein L3	293.644	3345.53	3.510094716	116.787	1097.98	3.232900179
DR_0312	50S ribosomal protein L4	482.835	3189.55	2.723750731	101.71	1629.2	4.001630284
DR_0313	50S ribosomal protein L23	300.618	3073.8	3.354019997	49.8029	1676.6	5.073164972
DR_0314	50S ribosomal protein L2	772.696	3397.84	2.136645085	101.529	1992.14	4.294355266
DR_0315	30S ribosomal protein S19	635.592	3344.85	2.395768643	88.5386	1465.12	4.048568461
DR_0316	50S ribosomal protein L22	529.966	3679.34	2.795475287	123.505	1915.07	3.954755772
DR_0317	30S ribosomal protein S3	409.973	2154.05	2.393450933	59.9014	997.08	4.057047636
DR_0318	50S ribosomal protein L16	906.084	4344.12	2.261347247	190.589	2477.21	3.700179415
DR_0319	50S ribosomal protein L29	966.281	3511.69	1.861650795	269.802	2362.83	3.130542887
DR_0320	30S ribosomal protein S17	782.899	3155.24	2.010851641	97.3474	1152.42	3.565380346
DR_0321	50S ribosomal protein L14	324.664	2407.95	2.890786108	143.61	1278.76	3.154517405
DR_0322	50S ribosomal protein L24	1327.46	4223	1.669599858	361.083	2972.25	3.041153064
DR_0323	50S ribosomal protein L5	705.821	5594.47	2.986627202	120.158	2654.34	4.46534857
DR_0324	serine cycle enzyme	14.1074	56.2958	1.99657517	14.3237	30.3159	1.081670445
DR_0325	malate dehydrogenase	148.912	231.827	0.638588584	70.4767	69.3313	-0.023639561
DR_0326	hypothetical protein	56.4393	1504.75	4.736679912	119.411	608.505	2.349333375
DR_0327	periplasmic serine protease	29.5193	64.0472	1.11747699	67.8993	22.5971	-1.587259065
DR_0328	hypothetical protein	5.45488	26.3833	2.274005662	13.3841	7.61684	-0.813255634
DR_0329	MutT/nudix family protein	15.8212	22.6178	0.515599578	22.9705	14.411	-0.672611811
DR_0330	hypothetical protein	67.7051	36.2735	-0.900348555	58.6419	18.7961	-1.641498499
DR_0331	hypothetical protein	2230.17	884.533	-1.334165814	4487.99	260.771	-4.105214118

DR_0332	hypothetical protein	34.3161	45.0814	0.393646718	27.8491	23.8166	-0.225663232
DR_0333	hypothetical protein	20.9493	39.8901	0.929128702	23.6099	19.7785	-0.255458915
DR_0334	lipase	5.36897	22.2437	2.050679536	4.76405	22.9213	2.26642841
DR_0335	ATP-dependent RNA helicase	52.2734	254.701	2.28465572	19.4162	145.293	2.903632418
DR_0336	fatty-acid--CoA ligase	5.66803	20.1502	1.829874859	9.72981	15.1344	0.637347943
DR_0337	hypothetical protein	12.7078	40.8645	1.685133793	7.56441	32.0948	2.085040105
DR_0338	hypothetical protein	217.018	294.789	0.441867983	319.789	107.062	-1.578673806
DR_0339	N-acyl-L-amino acid amidohydrolase	59.6736	85.2282	0.514238048	182.735	46.232	-1.982789306
DR_0340	folyl-polyglutamate synthetase	53.5393	77.2655	0.5292261	53.0759	41.0913	-0.369223956
DR_0341	30S ribosomal protein S15	809.91	2909.89	1.845131112	1633.51	1153.2	-0.502332545
DR_0342	cytochrome complex iron-sulfur subunit	1.48463	113.179	6.252359058	8.62186	43.8442	2.346314964
DR_0343	cytochrome c family protein	5.441	99.0273	4.185882571	8.80099	58.3819	2.72978344
DR_0344	cytochrome c-type biogenesis protein CcmH	4.10255	112.249	4.774037865	7.90559	69.6496	3.139170026
DR_0345	cytochrome c biogenesis protein, thiol:disulfide interchange protein	6.8792	136.34	4.308824278	11.9802	156.689	3.709180004
DR_0346	cytochrome c-type biogenesis protein CcmF	16.6298	122.58	2.881880887	38.2229	81.6089	1.094289256
DR_0347	cytochrome c-type biogenesis protein CcmE	42.9382	231.038	2.42779654	130.851	173.964	0.410863837
DR_0348	cytochrome c-type biogenesis heme exporter protein C	42.8989	271.529	2.66209373	196.356	170.868	-0.200589447
DR_0349	ATP-dependent protease LA	1350.7	717.185	-0.913290058	513.109	329.944	-0.637044148
DR_0350	hypothetical protein	50.4068	139.413	1.467674821	59.6992	72.7665	0.285562821
DR_0351	hypothetical protein	10.3944	19.9733	0.942266232	30.4609	19.3641	-0.653574119
DR_0352	hypothetical protein	69.8957	222.923	1.673269865	51.2693	97.1909	0.92272604
DR_0353	ribonuclease	133.215	560.397	2.072692694	65.0715	269.498	2.050176851
DR_0354	exodeoxyribonuclease III	4.11142	33.2888	3.017328203	4.99863	18.7314	1.905854084
DR_0355	hypothetical protein	811.987	288.899	-1.49089142	837.105	105.794	-2.984150786
DR_0356	BioC family methyltransferase	77.5236	87.6326	0.176832096	63.6289	36.3015	-0.809653018
DR_0357	hypothetical protein	132.314	124.533	-0.087437627	274.507	68.1489	-2.010080663
DR_0358	hypothetical protein	72.5584	75.3459	0.054386366	139.725	30.4326	-2.198900675
DR_0359	hypothetical protein	17.9354	28.3373	0.659892383	63.4071	7.09555	-3.159657973
DR_0360	hypothetical protein	134.897	820.338	2.604360195	296.858	322.835	0.121024003
DR_0361	competence protein ComEC/Rec2-like protein	102.742	729.955	2.828781465	185.445	436.695	1.235634643
DR_0362	D-alanyl-alanine synthetase A	14.0051	61.5951	2.136863302	12.0435	28.7005	1.252821151
DR_0363	peptide ABC transporter periplasmic peptide-binding protein	2001.8	132.356	-3.91880234	1117.6	89.2271	-3.646778164
DR_0364	peptide ABC transporter permease	225.21	202.147	-0.155866096	986.511	183.992	-2.422692099
DR_0365	peptide ABC transporter permease	188.95	202.36	0.098919626	888.01	148.237	-2.582670333
DR_0366	hypothetical protein	183.51	76.9403	-1.254047322	181.884	44.0501	-2.045801438
DR_0367	hypothetical protein	118.355	67.4781	-0.810629398	95.0492	42.8021	-1.150992903
DR_0368	hypothetical protein	6.99685	33.4826	2.258634093	6.83628	21.7193	1.667694214
DR_0369	hypothetical protein	12.2393	60.3731	2.302384833	13.9292	66.1114	2.246786664
DR_0370	hypothetical protein	42.8914	57.2356	0.416224362	19.318	34.7942	0.848901098
DR_0371	hypothetical protein	4716.77	541.85	-3.121833822	1200.08	780.023	-0.621542013
DR_0372	lysyl-tRNA synthetase	93.9796	131.794	0.48786516	124.762	44.9478	-1.472856176

DR_0373	cation exchanger	48.079	41.3904	-0.216110699	217.045	38.6479	-2.489532258
DR_0374	hypothetical protein	55.876	155.774	1.479153804	34.6932	46.3919	0.419220017
DR_0375	hypothetical protein	25.5521	94.809	1.891582153	31.101	49.0116	0.656162276
DR_0377	L-serine dehydratase subunit alpha	12.7411	51.7432	2.021879441	10.3635	26.0725	1.331017607
DR_0378	TetR family transcriptional regulator	44.6642	141.178	1.660324462	34.5938	62.0577	0.843096731
DR_0379	outer membrane protein	176.669	275.532	0.641170968	106.479	106.13	-0.004736404
DR_0380	hypothetical protein	196.371	172.666	-0.185597862	167.087	86.6179	-0.94786239
DR_0381	hypothetical protein	166.311	155.669	-0.095401919	123.505	84.0211	-0.555745871
DR_0383	S-layer-like array-like protein	260.568	128.499	-1.019902787	316.065	109.767	-1.525776892
DR_0384	hypothetical protein	10.4644	38.0814	1.863596924	11.6342	19.7037	0.760094557
DR_0385	hypothetical protein	56.8584	52.266	-0.12150075	50.7281	39.3211	-0.367481445
DR_0386	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (flavodoxin)	68.0498	61.85	-0.137817326	65.8712	32.0132	-1.040980938
DR_0387	hypothetical protein	8.42894	11.0902	0.395862265	14.9099	13.6802	-0.124181259
DR_0388	hypothetical protein	25.4586	20.7208	-0.297073381	35.4728	13.5646	-1.386866707
DR_0389	hypothetical protein	23.0199	89.1652	1.953599189	49.1031	20.0824	-1.289882416
DR_0390	hypothetical protein	53.9502	104.986	0.960496743	62.8976	47.9691	-0.390899597
DR_0391	hypothetical protein	59.6232	15.1535	-1.976222756	200.329	18.6954	-3.421616039
DR_0392	hypothetical protein	22.057	25.2017	0.192284474	29.4904	18.526	-0.670693972
DR_0393	elongation factor G	2.19742	4.36037	0.988639917	4.02951	5.98062	0.56969064
DR_0394	hypothetical protein	8.45863	8.29001	-0.029050175	5.56166	5.27098	-0.077444333
DR_0395	hypothetical protein	2.649	10.6768	2.010959565	7.45261	3.84843	-0.953475758
DR_0396	hypothetical protein	64.4455	30.2591	-1.090710546	47.5694	19.4759	-1.28834383
DR_0397	molybdopterin oxidoreductase	17.5989	17.4377	-0.013275494	14.9304	14.9076	-0.002204803
DR_0398	hypothetical protein	5.8259	12.5449	1.106548127	16.0739	9.09216	-0.822025034
DR_0399	osteoblast specific factor 2-like protein	69.5681	95.9502	0.463859894	61.068	60.4904	-0.013710396
DR_0400	cell division protein FtsK	31.5082	48.9158	0.634573198	54.2912	28.1642	-0.94685588
DR_0401	hypothetical protein	58.2707	78.7331	0.434199642	65.0801	38.1423	-0.770824626
DR_0402	hypothetical protein	17.8925	26.5482	0.569259068	30.8239	21.0153	-0.552609359
DR_0403	inosine-uridine preferring nucleoside hydrolase	22.3248	25.3771	0.184879962	33.4503	8.10003	-2.046019993
DR_0404	hypothetical protein	241.359	237.318	-0.024359095	546.714	53.8067	-3.344928587
DR_0405	alpha-dextran endo-1,6-alpha-glucosidase	14.3002	19.958	0.48093183	21.3577	14.8823	-0.521158786
DR_0406	ABC transporter ATP-binding protein	13.3575	33.7536	1.337391364	28.8282	23.6661	-0.284658779
DR_0407	cytochrome c-type biogenesis heme exporter protein B	29.0718	41.3724	0.509048251	15.0934	25.059	0.731411014
DR_0408	response regulator	228.191	142.899	-0.675246071	71.7222	100.71	0.489715296
DR_0409	hypothetical protein	10.5372	12.5415	0.251218352	10.8127	9.66845	-0.161370291
DR_0410	inorganic pyrophosphatase-like protein	6.05516	9.49353	0.648779546	6.2943	13.4172	1.091965783
DR_0411	short chain dehydrogenase	34.648	32.6591	-0.085287043	51.651	20.8164	-1.311075691
DR_0412	pyridine nucleotide-disulfide oxidoreductase, class II	16.0143	19.7609	0.303287917	15.2568	11.2369	-0.441208315
DR_0413	hypothetical protein	32.2805	22.5163	-0.51969315	19.2379	25.4703	0.404864629
DR_0414	CbbY/CbbZ/GpH/YieH family hydrolase	26.9361	22.5441	-0.256791066	45.4688	19.6472	-1.210553206
DR_0415	carboxylesterase	5.73922	9.43818	0.717654008	7.08243	6.36814	-0.153372385

DR_0416	ppGpp-regulated growth inhibitor suppressor ChpR/MazE	126.885	52.4411	-1.274751675	100.359	36.3721	-1.464265871
DR_0417	ppGpp-regulated growth inhibitor ChpA/MazF	30.6173	33.5944	0.1338737	21.8591	20.5612	-0.088309536
DR_0418	hypothetical protein	32.2593	91.6988	1.507187721	28.6664	38.7952	0.436517425
DR_0419	hypothetical protein	27.6957	69.7724	1.332994457	16.6104	44.513	1.42213992
DR_0420	ATP-dependent helicase	24.6908	36.4053	0.560174916	77.372	18.7916	-2.041723657
DR_0421	hypothetical protein	757.771	548.245	-0.466941179	1317.49	201.669	-2.707730773
DR_0422	hypothetical protein	3.61294	154.837	5.421433154	0	77.7976	#DIV/0!
DR_0423	hypothetical protein	26.6833	5329.45	7.641905744	41.6746	1487.4	5.157480515
DR_0424	imidazoleglycerol-phosphate dehydratase	6.33197	18.4426	1.542315733	6.02769	13.6858	1.183002642
DR_0425	hypothetical protein	8.43724	24.1147	1.515069817	9.24023	20.3597	1.139715636
DR_0426	imidazole glycerol phosphate synthase subunit HisH	27.6346	106.389	1.944801357	66.9017	37.4042	-0.838842596
DR_0427	50S ribosomal protein L25/general stress protein Ctc	502.606	3602.94	2.841674828	974.781	1387.77	0.509618449
DR_0428	hypothetical protein	20.3217	58.3453	1.521595349	67.5794	43.508	-0.635302842
DR_0429	cytochrome-like protein	206.885	225.826	0.12638255	603.379	91.1705	-2.726425493
DR_0430	rtcB protein	87.8409	30.3076	-1.535213224	17.5912	26.4405	0.587895558
DR_0431	hypothetical protein	13.3545	24.2407	0.860105399	22.2879	13.5964	-0.713035979
DR_0432	DNA-binding response regulator	315.343	249.393	-0.338500937	256.394	101.401	-1.338290621
DR_0433	beta-lactamase	14.1625	61.0207	2.107222774	16.4271	33.1787	1.014179547
DR_0434	cytochrome C6	355.952	547.223	0.620446161	340.4	263.743	-0.368098233
DR_0435	cytochrome complex iron-sulfur subunit	681.858	653.111	-0.062143116	787.121	501.51	-0.650306963
DR_0436	cytochrome B6	1046.43	670.327	-0.642538857	1399.72	494.875	-1.500002192
DR_0437	hypothetical protein	100.179	67.7638	-0.563993431	236.687	66.3074	-1.835738677
DR_0438	hypothetical protein	1505.82	1075.06	-0.486132146	2348.46	883.564	-1.410308477
DR_0439	HesB/YadR/YfhF family protein	1533.16	1837.6	0.261314498	2332.84	515.328	-2.178524475
DR_0440	Holliday junction resolvase	36.2142	217.981	2.58957498	22.0225	105.804	2.264344012
DR_0441	hypothetical protein	10.4782	111.744	3.41473456	18.4429	53.317	1.53153008
DR_0442	twitching motility protein	9.10874	51.5834	2.501583461	10.5022	43.1609	2.039033373
DR_0443	pyrimidine-nucleoside phosphorylase	28.3081	27.5263	-0.04040422	51.7766	19.9578	-1.375347534
DR_0444	lipopolysaccharide biosynthesis protein	5.57731	39.1497	2.811359886	5.36665	15.1111	1.493514977
DR_0445	hypothetical protein	24.0571	47.2954	0.975237131	13.3906	29.2067	1.125078755
DR_0446	hypothetical protein	465.349	336.277	-0.468662999	554.788	163.843	-1.759622546
DR_0447	orotate phosphoribosyltransferase	126.317	101.572	-0.314546059	149.041	40.5091	-1.879391321
DR_0448	hypothetical protein	17.6958	49.7063	1.490021732	51.5284	16.6566	-1.629273853
DR_0449	hypothetical protein	9.89996	20.2699	1.03384437	3.63581	8.87552	1.287554838
DR_0450	hypothetical protein	23.3984	30.0784	0.362317945	18.154	18.8943	0.057663608
DR_0451	glutamine synthase	30.1771	37.4905	0.313070896	24.3177	31.4754	0.372217929
DR_0452	hypothetical protein	113.2	146.526	0.372282725	85.4281	69.2821	-0.302228036
DR_0453	guanyl-specific ribonuclease SA	45.2274	75.1963	0.733464615	45.1932	41.9846	-0.106245471
DR_0454	bacitracin resistance protein	48.239	81.4021	0.754866013	91.5841	58.0795	-0.657068119
DR_0455	streptomycin 3-kinase	2.34938	8.98593	1.935387743	7.99781	9.54935	0.255797528
DR_0456	biopolymer transport protein	93.5316	111.707	0.256193821	106.743	92.8186	-0.201655621

DR_0457	biopolymer transport protein	495.893	568.701	0.197641481	312.587	663.496	1.085829988
DR_0458	hypothetical protein	25.1238	75.3849	1.585220883	6.69611	42.5046	2.66622385
DR_0459	hypothetical protein	171.229	258.441	0.5939079	71.7455	198.041	1.464838888
DR_0460	acetyl-CoA synthase	3.61204	5.98297	0.72804796	4.66522	6.20068	0.410481321
DR_0461	pantothenate kinase	2.57873	29.2155	3.502001348	3.3028	12.9224	1.968112523
DR_0462	hypothetical protein	2.11634	15.4134	2.86454181	0.897569	14.5323	4.017096394
DR_0463	maltooligosyltrehalose synthase	10.5005	27.7366	1.401332924	10.6344	16.5488	0.637987969
DR_0464	maltooligosyltrehalose trehalohydrolase	9.40236	27.1434	1.52950662	7.53668	16.1442	1.099014909
DR_0465	hypothetical protein	2.35666	7.99255	1.761912231	4.91344	11.3187	1.203902924
DR_0466	sensory box/GGDEF family protein	20.2139	37.3032	0.883951698	22.2158	11.8682	-0.90448495
DR_0467	hypothetical protein	11.8845	14.4848	0.285458557	11.4754	7.36083	-0.640604085
DR_0468	hypothetical protein	8.26815	17.6804	1.096514447	9.49085	8.42103	-0.172540597
DR_0469	hypothetical protein	40.8717	62.1334	0.604266751	72.9746	23.3462	-1.644206652
DR_0470	histidinol-phosphatase	20.1727	18.6062	-0.116620754	26.6796	9.78455	-1.44715963
DR_0471	hypothetical protein	14.2584	8.79218	-0.697519272	23.8082	7.8972	-1.592045418
DR_0472	tetracycline-efflux transporter	15.7893	13.5367	-0.222071133	24.6236	9.81437	-1.327074134
DR_0473	ABC transporter ATP-binding protein	21.0569	31.9359	0.60088605	38.1857	22.6243	-0.755159315
DR_0474	hypothetical protein	16.9715	28.78	0.761952511	35.1414	17.5521	-1.001528018
DR_0475	ABC transporter ATP-binding protein	19.117	17.1863	-0.153597158	13.4467	10.9736	-0.293215266
DR_0476	hypothetical protein	0	13.0052	#DIV/0!	0	6.48885	#DIV/0!
DR_0477	sodium:solute symporter protein	6.34154	9.79246	0.626838098	7.2357	9.46902	0.388082528
DR_0478	peptidase-like protein	33.7399	28.8376	-0.226504596	41.6942	24.1598	-0.787238195
DR_0479	penicillin-binding protein 1	40.2057	42.6338	0.084597602	24.8346	29.1343	0.230367138
DR_0480	C32 tRNA thiolase	29.1538	105.786	1.859392864	31.7658	54.6313	0.782253401
DR_0481	hypothetical protein	69.8187	140.072	1.004483194	259.771	63.8785	-2.023838041
DR_0482	B-cell receptor associated protein-like protein	26.1463	72.5989	1.473340886	28.3969	49.2207	0.793531732
DR_0483	hypothetical protein	1.30684	11.2622	3.107334252	4.63914	9.18104	0.984800202
DR_0484	hypothetical protein	29.5551	21.7643	-0.441443482	30.1617	17.3036	-0.801645525
DR_0485	glutamyl-tRNA synthetase	46.1196	56.54	0.293891883	24.7583	28.407	0.198334223
DR_0486	hypothetical protein	30.2397	55.944	0.887539583	92.5512	23.0375	-2.00626753
DR_0487	hypothetical protein	7.17083	49.3148	2.781808662	14.7583	22.7906	0.626912359
DR_0488	hypothetical protein	25.6133	419.143	4.03247749	43.0333	188.831	2.133570246
DR_0489	hypothetical protein	29.4765	94.1793	1.675844769	180.541	117.883	-0.614970822
DR_0490	pyrrolidone-carboxylate peptidase	27.5553	17.3619	-0.666404996	46.1114	13.2646	-1.797542297
DR_0491	hypothetical protein	237.38	117.198	-1.018250438	68.5884	74.6578	0.122328395
DR_0492	hypothetical protein	362.338	118.841	-1.608303466	63.1051	123.005	0.96288845
DR_0493	formamidopyrimidine-DNA glycosylase	50.5607	44.8017	-0.174462961	70.5107	23.4329	-1.589306693
DR_0494	DNA topology modulation protein FlaR-like protein	26.4708	28.0861	0.085454511	37.5865	17.8918	-1.070916043
DR_0495	pyridoxamine 5-phosphate oxidase	18.2567	17.2096	-0.085212448	28.6474	11.4991	-1.316883258
DR_0496	ferredoxin/ferredoxin--NADP reductase	51.671	51.5045	-0.004656317	37.6648	34.0481	-0.145642575
DR_0497	L-serine dehydratase subunit beta	33.7423	96.4711	1.5155385	85.9029	38.2735	-1.166360999

DR_0498	virulence factor-like protein	16.7855	64.4869	1.941790606	23.7304	49.5436	1.061962285
DR_0499	3-hydroxyisobutyrate dehydrogenase	98.8266	77.6813	-0.347332063	103.71	45.7315	-1.181294864
DR_0500	hypothetical protein	104.25	59.0165	-0.820857115	150.326	33.9396	-2.147053089
DR_0501	dihydroorotate dehydrogenase 2	5.81222	48.6136	3.064198758	7.9893	25.4575	1.67194974
DR_0502	alanyl-tRNA synthetase-like protein	7.65955	21.3786	1.480835839	12.2423	15.2344	0.315458054
DR_0503	hypothetical protein	29.4501	22.9371	-0.360589534	21.5935	20.9305	-0.044990327
DR_0504	hypothetical protein	4.3523	14.9551	1.780787649	3.43528	10.4934	1.610982607
DR_0505	5'-nucleotidase family protein	13.4394	181.827	3.758025809	19.5712	72.0349	1.879963827
DR_0506	hypothetical protein	26.8331	194.434	2.857194878	13.2454	152.783	3.527920708
DR_0507	DNA polymerase III subunit alpha	38.5435	213.257	2.468033609	29.4293	95.7156	1.701500851
DR_0508	mrr restriction system protein	7.19514	30.7089	2.093562172	12.1719	17.6408	0.535361601
DR_0509	hypothetical protein	4.91726	16.0731	1.708721662	6.19579	10.7196	0.790890921
DR_0510	sensory box protein	15.1858	29.5151	0.958730317	23.095	16.1976	-0.511800482
DR_0511	ABC transporter ATP-binding protein	5.37987	10.8748	1.015345652	5.15014	5.71949	0.151274859
DR_0512	hypothetical protein	3.54733	17.4257	2.296411159	8.34036	11.2479	0.431474111
DR_0513	integrase	12.7467	50.8266	1.995459931	7.62354	32.7431	2.102657942
DR_0514	hypothetical protein	4.03979	10.6969	1.404840554	0	17.6409	#DIV/0!
DR_0515	hypothetical protein	13.6962	23.7212	0.79240132	41.0311	9.77888	-2.068976688
DR_0516	hypothetical protein	1.35801	6.35361	2.226082433	0	6.94878	#DIV/0!
DR_0517	hypothetical protein	0	1.23563	#DIV/0!	0	4.27105	#DIV/0!
DR_0518	hypothetical protein	0	0	#DIV/0!	0	2.36112	#DIV/0!
DR_0519	hypothetical protein	0	1.69278	#DIV/0!	0	5.77153	#DIV/0!
DR_0520	hypothetical protein	0.660024	4.83503	2.872934451	1.12812	3.72263	1.722401693
DR_0521	hypothetical protein	0	3.00379	#DIV/0!	0	1.06273	#DIV/0!
DR_0522	hypothetical protein	1.73183	6.17652	1.834496899	6.09298	4.40486	-0.468051838
DR_0523	hypothetical protein	11.312	4.99534	-1.179199244	18.0159	5.95722	-1.596559581
DR_0524	hypothetical protein	1.62877	2.96611	0.864789208	0	4.19891	#DIV/0!
DR_0525	hypothetical protein	3.53994	5.01779	0.503327186	3.52866	12.8091	1.859976779
DR_0526	hypothetical protein	11.1807	18.8359	0.752474453	11.2838	14.5698	0.368728073
DR_0527	hypothetical protein	8.73619	6.47891	-0.431253116	7.92839	8.37532	0.079116382
DR_0528	hypothetical protein	2.93905	12.5495	2.094208077	3.31655	8.55188	1.366558333
DR_0529	hypothetical protein	8.53382	13.3541	0.646019163	13.5457	9.20238	-0.557756013
DR_0530	hypothetical protein	3.94305	16.99	2.107301943	6.55286	10.2474	0.645061297
DR_0531	hypothetical protein	13.0736	36.5243	1.482200161	25.6366	24.1843	-0.08413416
DR_0532	hypothetical protein	18.8902	74.0006	1.969898992	25.8641	51.8691	1.003924347
DR_0533	hypothetical protein	98.965	209.58	1.082510752	222.767	123.837	-0.847093105
DR_0534	serine/threonine protein kinase-like protein	9.02445	14.0889	0.642648063	12.3842	15.7579	0.347574609
DR_0535	hypothetical protein	4.09927	13.9991	1.771895158	8.89277	11.5616	0.378636287
DR_0536	hypothetical protein	50.8414	61.5537	0.275841822	48.3453	60.7706	0.329997894
DR_0537	hypothetical protein	11.8071	25.5898	1.115914211	21.1437	13.4928	-0.648038096
DR_0538	hypothetical protein	11.5895	24.2574	1.065606599	16.1932	15.9748	-0.019590241
DR_0539	hypothetical protein	38.9774	34.1229	-0.191897596	133.278	32.0897	-2.054256449

DR_0540	hypothetical protein	8.04206	19.788	1.2989888	5.3934	16.9641	1.653217952
DR_0541	hypothetical protein	11.4447	17.7245	0.631065284	10.8524	15.9267	0.553433244
DR_0542	glycerophosphoryl diester phosphodiesterase	3.1144	7.37225	1.243150745	6.69963	11.7519	0.810740698
DR_0543	short chain dehydrogenase/reductase family oxidoreductase	100.479	57.7607	-0.79873388	46.3535	29.5303	-0.650482263
DR_0544	hypothetical protein	79.6308	76.2659	-0.062288408	111.659	45.1093	-1.307602737
DR_0545	hypothetical protein	11.4521	28.5322	1.316978818	27.6683	41.915	0.599232625
DR_0546	hypothetical protein	44.3537	113.799	1.359361515	45.2967	84.9508	0.907221584
DR_0547	hypothetical protein	62.4384	110.69	0.826019418	67.6373	61.3822	-0.139998716
DR_0548	pilin, type IV	1868.02	1504.39	-0.31233128	492.072	691.742	0.491364628
DR_0549	replicative DNA helicase	60.3319	169.61	1.49122831	39.4716	82.8577	1.069820773
DR_0550	MutT/nudix family protein	21.5073	183.103	3.089757102	10.5168	99.7637	3.245819177
DR_0551	glutaryl-CoA dehydrogenase	115.217	71.0563	-0.697319126	89.5873	35.2139	-1.347149212
DR_0552	hypothetical protein	9.1515	25.475	1.47700201	7.54017	9.8936	0.391898522
DR_0553	hypothetical protein	3.42534	9.53106	1.476389475	4.37673	10.7284	1.293509641
DR_0554	hypothetical protein	11.9604	28.7704	1.26631964	10.8498	15.0102	0.468274751
DR_0555	glutamate-1-semialdehyde aminotransferase	33.9811	48.8519	0.523682119	34.7894	25.9454	-0.423169019
DR_0556	hypothetical protein	296.683	264.03	-0.1682204	245.416	86.9687	-1.496661135
DR_0557	hypothetical protein	18.6825	70.0375	1.906440065	14.3737	31.2936	1.122436155
DR_0558	tryptophanyl-tRNA synthetase	58.781	92.7647	0.658226014	33.9946	45.2028	0.411106546
DR_0559	fibronectin/fibrinogen-binding protein	58.637	62.0506	0.081633867	27.0705	34.1959	0.337101825
DR_0560	hypothetical protein	22.5437	25.7437	0.191495101	25.5774	19.9274	-0.36011613
DR_0561	maltose ABC transporter periplasmic maltose-binding protein	197.536	770.464	1.963611947	171.398	327.91	0.935949624
DR_0562	maltose ABC transporter permease	37.8719	132.23	1.803849822	18.2287	120.37	2.723192289
DR_0563	maltose ABC transporter permease	29.0105	124.357	2.099840653	20.9448	117.046	2.482411619
DR_0564	amino acid ABC transporter periplasmic amino acid-binding protein	416.791	486.856	0.224170997	462.419	251.564	-0.878275196
DR_0565	amino acid ABC transporter permease	298.862	400.688	0.422999832	321.039	315.003	-0.027382999
DR_0566	hypothetical protein	11.346	39.6839	1.806370047	10.5293	28.1313	1.417766696
DR_0567	threonine dehydratase	99.5312	25.454	-1.967256449	64.496	17.1433	-1.91156484
DR_0568	adenine phosphoribosyltransferase	59.9036	29.9446	-1.000346846	58.2586	19.8085	-1.556351397
DR_0569	hypothetical protein	29.1353	67.1328	1.20424965	38.1371	36.3112	-0.070780535
DR_0570	hypothetical protein	205.888	36.768	-2.485337138	394.513	41.8194	-3.237828572
DR_0571	hypothetical protein	23.1721	28.816	0.31448129	34.0126	14.7775	-1.202667073
DR_0572	sporulation protein SpoIID-like protein	4.05594	38.0925	3.231398759	8.67791	19.4719	1.165974135
DR_0573	hypothetical protein	11.5555	39.6698	1.779461438	9.96806	26.0311	1.38485162
DR_0574	hypothetical protein	14.3783	34.5298	1.263948867	14.4799	23.5078	0.69908789
DR_0575	preprotein translocase subunit SecA	124.881	426.663	1.772543011	94.4125	210.795	1.15879086
DR_0576	RNA methyltransferase	23.9892	61.6173	1.36095042	27.3451	26.3138	-0.055462734
DR_0577	sensor histidine kinase	28.4711	41.6481	0.548752447	107.484	16.1274	-2.736536141
DR_0578	hypothetical protein	110.242	85.1535	-0.372536232	88.3544	27.1627	-1.70167509
DR_0579	DNA/pantothenate metabolism flavoprotein	13.1245	20.2437	0.625210538	20.5107	9.41763	-1.122940781
DR_0580	acetyltransferase	104.953	93.9373	-0.159973373	117.356	49.7038	-1.239463544

DR_0581	hypothetical protein	107.43	149.202	0.47386995	105.455	54.5307	-0.95148692
DR_0582	hypothetical protein	174.664	105.799	-0.723256294	345.402	32.8394	-3.394776763
DR_0583	cell division protein FtsH	105.63	97.9634	-0.108704882	253.735	43.4381	-2.546289632
DR_0584	formyltetrahydrofolate deformylase	19.053	65.9544	1.791450733	24.3913	32.0835	0.395464882
DR_0585	aminopeptidase	11.0324	16.6653	0.595100618	8.42101	8.80654	0.064582032
DR_0586	ATP-dependent Clp protease adaptor protein ClpS	38.3854	45.8038	0.254909611	27.0318	24.1711	-0.161374452
DR_0587	mrr restriction system protein	19.2676	43.632	1.179209727	19.9821	25.7306	0.364776889
DR_0588	ATP-dependent Clp protease, ATP-binding subunit ClpA	10.2896	32.1674	1.644412432	10.3137	19.6387	0.929137446
DR_0589	hypothetical protein	3.03423	18.9959	2.646285713	3.52866	10.8877	1.625506888
DR_0590	hypothetical protein	77.8262	75.3626	-0.046407178	189.315	26.9601	-2.811890972
DR_0591	hypothetical protein	21.0316	49.858	1.245266403	38.9601	22.0583	-0.820675772
DR_0592	hypothetical protein	11.0603	25.7551	1.219467624	20.4921	27.399	0.419055402
DR_0593	beta-ketoadipate enol-lactone hydrolase	35.7548	35.8694	0.00461668	35.4387	16.6703	-1.088045615
DR_0594	glycogen synthase	19.4102	40.1426	1.048319078	35.561	20.8495	-0.770283108
DR_0595	hypothetical protein	47.204	273.223	2.533097913	52.435	231.01	2.139353277
DR_0596	Holliday junction DNA helicase RuvB	15.9953	541.735	5.081867346	33.6284	167.708	2.318199466
DR_0597	hypothetical protein	14.2549	42.7951	1.5859877	75.0163	28.4002	-1.401303018
DR_0598	hypothetical protein	8.77634	30.0005	1.773295223	30.4631	11.6699	-1.384270563
DR_0599	AAC(3) family N-acetyltransferase	38.5366	34.709	-0.150919491	29.5088	22.0498	-0.420379684
DR_0600	hypothetical protein	471.725	340.248	-0.47135938	951.255	126.974	-2.90529902
DR_0601	DNA primase	94.8601	118.279	0.318320657	138.414	58.0166	-1.254452217
DR_0602	phosphoglycerate mutase-like protein cytidine/deoxycytidylate deaminase/NUDIX/methyltransferase domain-containing protein	14.6834	30.4415	1.05185338	15.9214	17.3859	0.126950551
DR_0603		6.50356	9.96641	0.61584427	9.25657	7.54477	-0.295000784
DR_0604	acetyltransferase	8.84468	8.34737	-0.083488227	13.6916	4.97424	-1.460743027
DR_0605	GGDEF family protein	25.0235	10.5265	-1.249257763	72.8412	11.1344	-2.709730872
DR_0606	co-chaperonin GroES	5193.64	3080.16	-0.753740722	1979.58	1079.99	-0.874176418
DR_0607	chaperonin GroEL	1677.64	1783.49	0.088269961	1669.42	605.811	-1.462407281
DR_0608	hypothetical protein	152.791	321.513	1.073317507	310.78	174.871	-0.829602606
DR_0609	hypothetical protein	14.4563	105.07	2.861580548	14.8781	53.6997	1.851723729
DR_0610	hypothetical protein	2.54548	75.6069	4.892508268	10.8115	42.5467	1.97648054
DR_0611	LuxA-like protein	56.4511	126.919	1.168834461	54.79	67.1023	0.292449613
DR_0612	arginine utilization protein RocB	2.53628	18.755	2.886489333	0.471427	13.2722	4.815229333
DR_0613	hypothetical protein	88.9739	329.312	1.888000987	103.268	111.017	0.104387342
DR_0614	hypothetical protein	32.8448	189.128	2.525626081	21.0497	101.973	2.276315634
DR_0615	LysR family transcriptional regulator	1.54025	20.8184	3.756622754	6.96167	12.1732	0.806203129
DR_0616	hypothetical protein	125.38	59.1882	-1.082925747	58.3798	48.7681	-0.259531502
DR_0617	metalloprotease	56.0362	93.4313	0.737546817	57.2498	43.1093	-0.409271517
DR_0618	hypothetical protein	3.73684	14.7072	1.97663191	3.48774	9.79869	1.490296391
DR_0619	hypothetical protein	3.49775	11.0977	1.665761627	9.98743	5.37558	-0.893693063
DR_0620	hypothetical protein	6.26946	8.55272	0.448042123	12.2463	4.73481	-1.370967492
DR_0621	moxR protein	15.2333	19.1771	0.332156062	14.6264	7.60262	-0.944006134

DR_0622	hypothetical protein	0.592061	5.92022	3.321833059	8.34653	6.02873	-0.469322415
DR_0623	aspartate aminotransferase	18.4982	18.5112	0.001013528	15.0681	11.1262	-0.437536569
DR_0624	hypothetical protein	13.7657	31.7368	1.205078695	11.145	19.704	0.822091916
DR_0625	hypothetical protein	17.744	46.0338	1.375362269	14.8862	49.9486	1.746468717
DR_0626	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase	11.2107	55.8619	2.316988281	11.9392	28.793	1.270011944
DR_0627	UDP-N-acetylmuramate--alanine ligase	53.0677	115.102	1.117006974	48.0863	56.9451	0.243945784
DR_0628	UDP-N-acetylenolpyruvoylglucosamine reductase	25.3843	94.1434	1.89092348	35.8901	41.0008	0.192066117
DR_0629	cell division protein FtsQ-like protein	13.5727	82.3019	2.600217994	11.7903	36.467	1.628991092
DR_0630	cell division protein FtsA	104.429	410.095	1.973435749	118.525	168.064	0.503819333
DR_0631	cell division protein FtsZ	71.0278	445.704	2.649630203	88.7703	154.187	0.796532154
DR_0632	hypothetical protein	6.6363	28.2536	2.089983692	6.65727	19.6175	1.559138614
DR_0633	AzIC family protein	3.31745	25.2892	2.930374773	7.59401	17.1334	1.173877668
DR_0634	hypothetical protein	8.09582	32.8891	2.022360411	31.0369	25.0403	-0.30973262
DR_0635	6-phosphofructokinase	10.8679	90.2745	3.054245329	28.6044	47.8762	0.743071565
DR_0636	hypothetical protein	23.6984	132.272	2.480646133	25.9088	69.3148	1.419721231
DR_0637	hypothetical protein	55.8802	271.684	2.281520516	120.558	92.3462	-0.384602887
DR_0638	hypothetical protein	34.2606	173.912	2.34373516	164.481	75.747	-1.118660285
DR_0639	hypothetical protein	80.2179	137.547	0.77792857	40.6372	174.845	2.105203635
DR_0640	methionine adenosyltransferase	357.923	357.182	-0.002989875	220.986	208.15	-0.086331416
DR_0641	hypothetical protein	9.30906	61.1784	2.716314975	5.90305	29.4111	2.316828276
DR_0642	phosphopantetheine adenyllyltransferase	16.1637	64.6476	1.999839332	28.4339	34.5047	0.279180897
DR_0643	N-6 adenine-specific DNA restriction methylase	26.4171	45.541	0.785693871	24.3249	16.4055	-0.56825431
DR_0644	hypothetical protein	286.747	284.215	-0.012795695	346.848	118.174	-1.553390909
DR_0645	molybdopterin-guanine dinucleotide biosynthesis protein A	7.59292	40.5833	2.418159469	6.59857	14.9978	1.184525578
DR_0646	GTP-binding protein Era	82.1749	256.175	1.64035999	61.4493	93.4055	0.604110926
DR_0647	cell division cycle protein 48-like protein	11.7494	20.2012	0.78185391	16.8985	13.7518	-0.297274723
DR_0648	hypothetical protein	52.8173	38.0444	-0.473326444	18.4138	24.4652	0.409943695
DR_0649	hypothetical protein	24.5025	68.7024	1.487431542	40.8192	40.435	-0.013643296
DR_0650	hypothetical protein	40.9114	181.867	2.152308975	28.3234	114.897	2.020274764
DR_0651	arginase	4.36594	172.173	5.301422804	7.41365	57.262	2.949322149
DR_0652	Na ⁺ /H ⁺ antiporter	5.55958	14.226	1.355482265	18.6698	10.3557	-0.850281396
DR_0653	hypothetical protein	4.83335	37.024	2.937365395	16.9248	12.9462	-0.386610089
DR_0654	proline iminopeptidase-like protein	63.4288	35.9846	-0.817758427	41.6115	29.9999	-0.472024603
DR_0655	hypothetical protein	1.62877	4.74577	1.542859289	2.9458	9.44756	1.681282291
DR_0656	proton/sodium-glutamate symport protein	41.7004	66.743	0.678555313	104.955	48.4399	-1.115503106
DR_0657	serine esterase	46.9012	30.1366	-0.638108174	37.6491	22.0498	-0.771849808
DR_0658	hypothetical protein	212.758	87.0075	-1.290001709	220.673	47.6444	-2.211531564
DR_0659	frnE protein	13.1842	22.186	0.750839549	21.9771	16.9565	-0.374162614
DR_0660	hypothetical protein	44.3366	70.2208	0.663400293	11.6674	40.8242	1.806941513
DR_0661	hypothetical protein	255.489	407.864	0.674826996	59.0377	114.613	0.957062268

DR_0662	hypothetical protein	130.103	286.87	1.140742874	56.4192	125.83	1.157217812
DR_0663	hypothetical protein	1831.51	1014.19	-0.852705624	938.217	2177.95	1.214977287
DR_0664	hypothetical protein	1569.25	1237.24	-0.342949827	924.012	3415.95	1.886303365
DR_0665	hypothetical protein	645.872	631.74	-0.031917355	326.554	1108.59	1.763332414
DR_0666	transposase	25.6376	37.3311	0.542116806	14.5649	22.8309	0.648491936
DR_0667	transposase	57.3207	91.993	0.682467859	90.9787	101.117	0.152424841
DR_0668	carbamoyl phosphate synthase large subunit	21.2896	86.6723	2.025422146	26.3847	55.8835	1.0827208
DR_0669	hypothetical protein	0.579977	14.9182	4.684933974	8.88091	14.1412	0.671125132
DR_0670	hypothetical protein	5.93854	11.9136	1.004429236	12.0706	5.63711	-1.098469766
DR_0671	class I aminotransferase	14.7351	11.315	-0.381020267	17.49	8.52163	-1.037328972
DR_0672	hypothetical protein	39.1797	87.0067	1.15102015	49.8879	49.0773	-0.02363406
DR_0673	hypothetical protein	1010.27	413.681	-1.28815031	1546.47	163.279	-3.24356769
DR_0674	argininosuccinate synthase	222.014	36.6147	-2.600155774	133.435	22.5789	-2.563090027
DR_0675	hypothetical protein	279.137	43.3416	-2.68714905	292.832	50.7038	-2.529907437
DR_0676	acetyltransferase	31.6625	17.5373	-0.852348521	14.0601	9.27166	-0.600707288
DR_0677	acetyltransferase	36.582	22.7228	-0.686993331	14.8838	16.2794	0.129304618
DR_0678	argininosuccinate lyase	36.1548	30.1339	-0.262799794	22.1296	23.0114	0.056371385
DR_0679	hypothetical protein	18.5348	27.1736	0.551969161	10.1245	24.5381	1.277172883
DR_0680	hypothetical protein	29.0533	32.6347	0.167704737	29.6105	7.82704	-1.919570129
DR_0681	hypothetical protein	3.67796	14.4752	1.976605587	4.33146	6.24943	0.528871216
DR_0682	hypothetical protein	16.8534	27.1158	0.686094065	19.5138	27.8047	0.510834024
DR_0683	acetyltransferase	22.5556	23.2831	0.045797493	7.52213	18.3973	1.290280906
DR_0684	carbamoyl phosphate synthase small subunit	210.95	132.948	-0.666039013	191.077	72.2977	-1.402132474
DR_0685	hypothetical protein	2688.51	1134.31	-1.244991864	319.446	783.625	1.29459135
DR_0686	hypothetical protein	187.002	223.114	0.254727343	55.434	125.005	1.173142783
DR_0687	hypothetical protein	9.76995	18.3576	0.909954375	5.98207	10.6602	0.833517808
DR_0688	hypothetical protein	40.1743	20.9782	-0.937381991	15.1437	18.1092	0.258005078
DR_0689	uracil-DNA glycosylase	25.6412	28.5679	0.155931208	8.30721	12.6069	0.601777635
DR_0690	type I topoisomerase	45.2049	25.0116	-0.853881812	21.1577	19.6426	-0.107196899
DR_0691	hypothetical protein	80.6849	80.3839	-0.005392127	93.8976	38.196	-1.297666721
DR_0692	nitrogen regulatory protein P-II	106.167	45.7707	-1.21383914	35.9892	53.4156	0.569697109
DR_0693	ammonium transporter	132.982	54.4059	-1.289395964	59.9994	58.2035	-0.043842163
DR_0694	hypothetical protein	33.3008	838.933	4.654926855	31.3888	397.215	3.661598324
DR_0695	v-type ATP synthase subunit I	28.5725	770.779	4.753618088	20.4859	610.571	4.897455887
DR_0696	v-type ATP synthase subunit K	14.0342	951.694	6.083479043	14.5627	926.754	5.991836668
DR_0697	v-type ATP synthase subunit E	21.0859	648.8	4.943423314	17.5081	326.105	4.219242127
DR_0698	v-type ATP synthase subunit C	23.4079	822.339	5.134665835	16.124	558.284	5.113717617
DR_0699	v-type ATP synthase subunit F	19.3122	602.748	4.963970532	15.0451	458.287	4.928885761
DR_0700	V-type ATP synthase subunit A	105.739	816.423	2.948809238	69.7119	453.395	2.701291627
DR_0701	V-type ATP synthase subunit B	149.762	919.624	2.618372511	78.9704	416.562	2.399147336
DR_0702	v-type ATP synthase subunit D	2671.98	2544.56	-0.070492999	4282.07	770.752	-2.473969747
DR_0703	hypothetical protein	6.59635	25.121	1.92915404	7.03004	16.8576	1.261794353

DR_0704	hypothetical protein	3.21199	27.5268	3.0992976	11.145	19.704	0.822091916
DR_0705	hypothetical protein	5.57668	22.4739	2.01077211	9.01111	13.2625	0.557576016
DR_0706	hypothetical protein	16.2267	20.0618	0.306081423	34.7008	22.4673	-0.627142164
DR_0707	hypothetical protein	6.19935	20.7733	1.744541555	4.81927	14.9494	1.633201047
DR_0708	hypothetical protein	77.4502	117.434	0.600509295	52.7463	76.1874	0.530482526
DR_0709	snoG protein	5.39375	44.7281	3.051820916	2.74668	30.986	3.495855783
DR_0710	mannose-1-phosphate guanylttransferase	12.6816	86.9696	2.777774421	0	50.1666	#DIV/0!
DR_0711	UDP-glucose 4-epimerase	17.7369	81.5234	2.20046034	8.67936	57.5851	2.730034996
DR_0712	hypothetical protein	6.66868	51.3512	2.944924863	4.67732	28.0862	2.586107405
DR_0714	hypothetical protein	18.671	112.463	2.590579333	11.8812	63.4105	2.416041197
DR_0715	G/U mismatch-specific DNA glycosylase	201.937	115.787	-0.80243199	158.112	75.4058	-1.068199465
DR_0716	hypothetical protein	47.2621	133.1	1.493754932	25.4743	52.7371	1.049775736
DR_0717	leucyl aminopeptidase	4.30279	18.6179	2.113346018	7.48009	10.6772	0.513405829
DR_0718	aspartate alpha-decarboxylase	58.7387	203.855	1.795160101	149.6	100.864	-0.56869883
DR_0719	hypothetical protein	65.0422	267.644	2.04086735	88.4918	194.453	1.135805812
DR_0720	TetR family transcriptional regulator	1.64983	55.3688	5.068683974	5.69377	24.4166	2.100406198
DR_0721	hypothetical protein	1.9369	12.3188	2.669040351	0	7.90904	#DIV/0!
DR_0722	hypothetical protein	1.62886	10.1383	2.637881245	6.41747	10.9399	0.769522999
DR_0723	glycosyl hydrolase family protein	1.70479	9.64623	2.500371174	3.4118	5.76595	0.757025248
DR_0724	hypothetical protein	7.66248	12.9128	0.752918559	6.09073	7.37795	0.27660486
DR_0725	hypothetical protein	80.1821	118.182	0.559658211	66.639	88.976	0.417049491
DR_0726	hypothetical protein	23.3596	15.8346	-0.560935147	7.66712	9.4424	0.30046884
DR_0727	hypothetical protein	29.3026	33.5161	0.193825604	80.4988	25.5384	-1.656299135
DR_0728	fructokinase	28.4277	36.6395	0.366102436	20.2234	23.6698	0.227021949
DR_0729	CbbY/CbbZ/GpH/YieH family hydrolase	8.49941	15.7324	0.88830417	12.288	9.83158	-0.32175493
DR_0730	short chain dehydrogenase/reductase family oxidoreductase	6.45454	7.35359	0.18813446	10.4632	7.66854	-0.448300307
DR_0731	response regulator	10.7705	29.5835	1.457707521	27.684	23.7403	-0.221714244
DR_0732	imidazole glycerol phosphate synthase subunit HisF	34.652	35.0059	0.014659476	48.8357	29.4644	-0.728963288
DR_0733	bifunctional phosphoribosyl-AMP cyclohydrolase/phosphoribosyl-ATP pyrophosphatase protein	2.83658	29.6007	3.383406835	2.79463	23.9783	3.101000186
DR_0734	hypothetical protein	4.29454	4.38957	0.031576012	16.601	3.81045	-2.123236858
DR_0735	TetR family transcriptional regulator	59.0162	73.3823	0.314321093	66.7693	36.8573	-0.857234526
DR_0736	hypothetical protein	17.1146	29.3725	0.77923849	16.813	10.0073	-0.748524389
DR_0737	hypothetical protein	25.8802	34.3406	0.40806648	17.2969	13.6737	-0.339109819
DR_0738	hypothetical protein	27.7257	35.3127	0.348963248	14.0569	24.4704	0.799759216
DR_0739	hypothetical protein	14.4751	37.2739	1.364592462	8.93067	22.3186	1.321406214
DR_0740	drug transport protein	8.2768	33.3229	2.009368958	15.2049	24.1936	0.67008913
DR_0741	hypothetical protein	153.23	62.8896	-1.284805417	150.532	36.8739	-2.029398289
DR_0742	arginine repressor/activator	21.2295	162.715	2.938204955	45.1089	67.4233	0.579835135
DR_0743	response regulator	569.157	418.307	-0.444264529	637.805	137.596	-2.212676877
DR_0744	sensor histidine kinase	31.5239	57.3344	0.86295497	59.3897	30.6137	-0.956035324
DR_0745	periplasmic serine protease	26.2922	52.9817	1.010859271	67.4632	20.8305	-1.695403283

DR_0746	hypothetical protein	537.009	824.382	0.618366737	1020.44	366.492	-1.477337745
DR_0747	aldose epimerase family protein	45.8378	39.4959	-0.214834906	16.8863	21.389	0.341015784
DR_0748	23S rRNA (guanosine(2251)-2'-O)-methyltransferase RlmB	23.6805	32.8528	0.472316792	19.0871	18.7889	-0.022717317
DR_0749	hypothetical protein	11.6312	26.881	1.20858686	21.172	16.6518	-0.346479423
DR_0750	sensory box/GGDEF family protein	7.53951	13.524	0.842979252	7.2301	9.02169	0.319382112
DR_0751	hypothetical protein	40.0824	455.418	3.506150514	116.207	142.892	0.298228172
DR_0752	septum site-determining protein	32.9883	243.492	2.883848035	81.4749	82.558	0.019052345
DR_0753	hypothetical protein	27.0767	230.353	3.088722562	50.6429	103.38	1.029525181
DR_0754	hypothetical protein	11.1082	169.402	3.930753945	9.27829	79.2908	3.095222637
DR_0755	50S ribosomal protein L19	302.121	3658.47	3.598042056	188.527	1002.66	2.410989414
DR_0756	hypothetical protein	45.0589	40.7855	-0.143755756	33.7236	28.8037	-0.227504406
DR_0757	citrate synthase	308.889	454.843	0.558280155	505.527	132.797	-1.928565593
DR_0758	hypothetical protein	11.247	20.1002	0.837669625	8.28806	14.8355	0.839947198
DR_0759	hypothetical protein	12.3125	49.6572	2.011879191	9.24481	35.2221	1.929765353
DR_0760	hypothetical protein	2.12185	20.8785	3.29862349	1.59459	15.2798	3.260368228
DR_0761	hypothetical protein	18.0578	53.9743	1.579650489	31.5389	18.236	-0.790343029
DR_0762	hypothetical protein	1263.25	699.884	-0.851952448	1259.25	384.709	-1.710725245
DR_0763	hypothetical protein	189.08	57.6599	-1.71335653	231.795	34.217	-2.760064265
DR_0764	lipoate-protein ligase B	67.3945	233.222	1.791001121	43.0074	104.649	1.282901704
DR_0765	lipoyl synthase	127.399	379.525	1.574840968	157.792	151.254	-0.061050767
DR_0766	hypothetical protein	3.35432	17.5637	2.388504565	3.21327	13.6748	2.089405617
DR_0767	short chain dehydrogenase UDP-N-acetylmuramoylalanyl-D-glutamyl- 2,6-diaminopimelate--D-alanyl-D-alanyl ligase	0	11.3158	#DIV/0!	0	4.48197	#DIV/0!
DR_0768		34.8398	27.6942	-0.331152478	19.3111	18.9622	-0.02630399
DR_0769	hypothetical protein	19.5312	25.8994	0.407138085	20.4254	18.5406	-0.139676399
DR_0770	fimbrial assembly protein PilM	28.6137	97.5726	1.769770009	16.2914	55.8922	1.778536376
DR_0771	hypothetical protein	24.6718	60.4213	1.29219425	17.4296	28.7052	0.719772647
DR_0772	hypothetical protein	24.1723	80.0631	1.727782725	11.1105	45.6428	2.038463555
DR_0773	hypothetical protein	27.9433	68.2994	1.289370497	14.9514	42.0279	1.491066791
DR_0774	general secretion pathway protein D	214.892	148.76	-0.530625122	91.959	214.236	1.220138247
DR_0775	chorismate synthase	162.398	39.9037	-2.024939436	140.562	23.5617	-2.576691084
DR_0776	shikimate kinase	68.2101	75.9075	0.15425706	98.3526	35.0841	-1.487145837
DR_0777	3-dehydroquinate synthase	71.1446	63.269	-0.169255464	60.2947	42.7498	-0.496113522
DR_0778	3-dehydroquinate dehydratase	21.2179	40.7703	0.942236697	41.8612	20.2481	-1.047827131
DR_0779	hypothetical protein	7.53878	20.3109	1.429851192	7.54981	14.9393	0.984600308
DR_0780	hypothetical protein	10.6683	14.1189	0.404297393	5.94504	4.07471	-0.544989132
DR_0781	response regulator	1400.94	689.723	-1.022306187	489.652	414.046	-0.241965719
DR_0782	hypothetical protein	3.95306	22.1163	2.484068289	3.57622	7.23808	1.017171563
DR_0783	MutT/nudix family protein	7.0547	7.36134	0.061383673	6.82031	13.0982	0.941459345
DR_0784	MutT/nudix family protein	20.5228	11.042	-0.89422607	38.6484	9.82362	-1.976082029
DR_0785	hypothetical protein	3.0666	11.1022	1.856133686	7.31845	6.52498	-0.165564648
DR_0786	uroporphyrinogen-III synthase	1.98007	8.74911	2.143584833	2.25625	7.85888	1.800396791

DR_0787	hypothetical protein	43.7674	39.5638	-0.145675683	33.7984	21.072	-0.681627701
DR_0788	branched-chain amino acid ABC transporter periplasmic amino acid-binding protein	65.8205	54.2175	-0.279778395	83.1876	26.87	-1.630372174
DR_0789	O-acetylserine (thiol)-lyase	45.4373	25.0889	-0.85682789	80.0592	20.5023	-1.965281436
DR_0790	hypothetical protein	43.4639	61.2844	0.495702248	94.6218	33.3841	-1.503011458
DR_0791	chloride peroxidase	19.6109	38.5857	0.976410532	1.82381	27.5092	3.914886839
DR_0792	hypothetical protein	4.32223	12.2314	1.500741794	5.57781	4.74588	-0.23302317
DR_0793	hypothetical protein	15.9089	15.6504	-0.023634555	10.7521	11.0537	0.039910902
DR_0794	acetylornithine aminotransferase	143.122	119.508	-0.260138256	186.958	41.9922	-2.154520927
DR_0795	hypothetical protein	1.69004	19.0222	3.492554812	0	7.45474	#DIV/0!
DR_0796	acetyltransferase	65.7935	66.7228	0.020234771	22.5874	25.8702	0.195772993
DR_0797	hypothetical protein	121.685	25.0306	-2.28138656	46.359	22.2808	-1.057048413
DR_0798	acetyltransferase	14.2911	10.9777	-0.380541148	10.487	11.4686	0.129087261
DR_0799	glucose-fructose oxidoreductase	120.073	98.1809	-0.290397482	129.004	50.8355	-1.343507567
DR_0800	hypothetical protein	32917.2	7450.98	-2.143339527	15677.5	5436.82	-1.52786055
DR_0801	lycopene cyclase	5.34692	17.2393	1.688921199	3.85513	6.40912	0.733346772
DR_0802	hypothetical protein	5.7007	34.4068	2.593482734	14.729	15.7459	0.096316737
DR_0803	hypothetical protein	4.09305	24.5818	2.586342365	0	11.1914	#DIV/0!
DR_0804	sigma factor	14.7461	44.7155	1.600441562	30.1236	21.7635	-0.468983604
DR_0805	hypothetical protein	603.459	225.424	-1.420614634	400.628	94.4756	-2.084249574
DR_0806	Sec-independent protein translocase protein TatC	372.941	174.245	-1.097830153	490.803	84.0411	-2.545977117
DR_0807	prolipoprotein diacylglycerol transferase	12.5809	113.006	3.167092337	91.5309	68.0528	-0.427604344
DR_0808	bifunctional N-acetylglucosamine-1-phosphate uridylyltransferase/glucosamine-1-phosphate acetyltransferase	3.46615	35.9409	3.374220541	4.22492	24.2369	2.520209255
DR_0809	prenyltransferase	0.972811	11.6177	3.578021129	4.1158	6.36827	0.629728625
DR_0810	dehydrogenase	2.03887	9.934	2.284604956	2.28127	4.42971	0.957375046
DR_0811	hypothetical protein	18.5661	14.5453	-0.352117742	3.82318	5.38067	0.493012702
DR_0812	serine protease	2.93108	10.8293	1.885435741	2.55437	10.4161	2.027775785
DR_0813	1-pyrroline-5-carboxylate dehydrogenase	25.4869	286.102	3.48870177	19.0136	103.999	2.451466036
DR_0814	proline dehydrogenase	50.8628	306.339	2.590446258	36.6563	114.822	1.647266014
DR_0815	GntR family transcriptional regulator	5.67035	70.4552	3.635196497	18.2753	25.2468	0.466205451
DR_0816	Mg(2+) transport ATPase-like protein	6.47322	45.0687	2.799570395	4.59255	26.4499	2.525894934
DR_0817	hypothetical protein	7.69324	57.4925	2.901710545	24.9156	27.697	0.152680403
DR_0818	hypothetical protein	226.014	306.785	0.440815805	341.179	82.9165	-2.040797725
DR_0819	hypothetical protein	34.4741	94.9178	1.461165774	84.3877	41.4989	-1.023959637
DR_0820	hypothetical protein	50.4919	110.932	1.135551721	44.1869	70.3318	0.67055842
DR_0821	lipase	115.151	221.112	0.941250384	82.7929	104.613	0.337483185
DR_0822	short chain dehydrogenase/reductase family oxidoreductase	13.2685	27.9544	1.075070096	19.65	11.2108	-0.80964008
DR_0823	ROK family protein	12.5468	29.5131	1.234036008	29.5088	11.5855	-1.348824945
DR_0824	hydrolase	11.0239	19.822	0.846467829	10.0541	9.98466	-0.009998737
DR_0825	50S ribosomal protein L31	1853.11	8192.85	2.144416879	3600.23	4102.21	0.188312272
DR_0826	hypothetical protein	27.3919	94.1177	1.780716725	66.0703	35.0357	-0.915176174

DR_0827	CbbY/CbbZ/GpH/YieH family hydrolase	33.3782	24.6694	-0.436183529	21.8976	25.0266	0.192689549
DR_0828	isocitrate lyase	50.2044	29.9498	-0.745267441	4.46225	21.0469	2.237764506
DR_0829	WD repeat-containing protein	3.5897	15.53	2.113122645	7.50501	10.6945	0.510943134
DR_0830	ion transporter putative	7.13885	41.5916	2.542528592	5.06515	18.9768	1.905559837
DR_0831	hypothetical protein	42.837	49.4861	0.2081659	53.6041	31.1142	-0.784770199
DR_0832	hypothetical protein	10.2678	9.31524	-0.140462255	4.85001	10.6959	1.140998255
DR_0833	histone deacetylase/AcuC/AphA family protein	8.18613	10.2281	0.321284688	13.9006	5.79436	-1.26242593
DR_0834	nitrogen regulator	102.269	147.635	0.529665885	56.215	64.1613	0.190748233
DR_0835	hypothetical protein	34.2109	73.2268	1.097915693	38.1566	41.6826	0.127512647
DR_0836	hypothetical protein	12.1645	92.2085	2.922222726	18.6152	46.0388	1.306369114
DR_0837	hypothetical protein	4.97796	71.4351	3.843006581	7.29591	39.2296	2.426782787
DR_0838	hypothetical protein	6.56029	33.1328	2.336428632	9.90237	28.3996	1.520024849
DR_0839	hypothetical protein	5.77328	39.1247	2.760616588	12.8465	19.9631	0.635960415
DR_0840	regulatory protein MocR	2.74066	14.6267	2.416009046	4.86555	7.80182	0.681207818
DR_0841	metal-dependent hydrolase	2.67996	14.4919	2.434963383	2.6335	13.4783	2.355585178
DR_0842	NimA-like protein	2.34075	18.5181	2.983893319	1.62615	10.057	2.628667767
DR_0843	hypothetical protein	301.618	265.296	-0.185119605	317.294	133.463	-1.249380402
DR_0844	hypothetical protein	27.063	14.0887	-0.941783278	22.2829	9.33596	-1.255066719
DR_0845	ribose 5-phosphate isomerase	84.3937	137.906	0.708478016	63.9413	52.0948	-0.295608703
DR_0846	bacterioferritin comigratory protein	117.447	192.792	0.715035325	89.1187	70.0603	-0.347131022
DR_0847	ComA-like protein	43.2203	52.4323	0.278746746	24.725	14.9744	-0.723472323
DR_0848	putative lipoprotein	67.2033	70.0302	0.05944513	59.8668	43.397	-0.464160844
DR_0849	hypothetical protein	12.257	72.6945	2.568240304	5.59554	29.0672	2.377042835
DR_0850	hypothetical protein	40.4367	66.1844	0.710825941	44.8411	60.9897	0.44374395
DR_0851	4-hydroxybenzoate octaprenyltransferase	16.1551	89.7938	2.474626154	44.1839	47.8099	0.113788621
DR_0852	hypothetical protein	6884.78	0	#NUM!	8521.85	0	#NUM!
DR_0853	gliding motility protein	33.0157	107.377	1.701460864	20.9905	84.0145	2.000901811
DR_0854	hypothetical protein	16.4058	75.6189	2.204540917	36.4718	44.1234	0.274762561
DR_0855	hypothetical protein	6.60268	26.8828	2.025559779	4.17691	17.4673	2.064148658
DR_0856	DNA polymerase III subunit epsilon	39.7245	129.132	1.700745591	48.0996	51.931	0.11057111
DR_0857	hypothetical protein	18.346	29.965	0.707812829	9.91049	14.2016	0.519025183
DR_0858	hypothetical protein	6.02582	15.8309	1.393513793	11.6492	15.1472	0.37882025
DR_0859	ribonuclease activity regulator protein RraA	42.2966	67.551	0.675435429	69.3034	23.4354	-1.564236713
DR_0860	sensor histidine kinase	54.0478	58.0661	0.103460244	21.6574	24.9903	0.206508165
DR_0861	phytoene dehydrogenase	18.2653	31.0382	0.764939444	7.40525	22.6343	1.611890343
DR_0862	phytoene synthase	37.6479	35.4044	-0.088640726	30.4008	22.3918	-0.441138783
DR_0863	hypothetical protein	2760.32	319.883	-3.109219298	1352.56	247.6	-2.449609374
DR_0864	hypothetical protein	2248.29	328.027	-2.776941663	1302.61	234.153	-2.47588178
DR_0865	ferric uptake regulation protein	22.8028	39.7458	0.80159143	20.6206	23.094	0.163431765
DR_0866	lipopolysaccharide biosynthesis protein-like protein	10.0584	25.9814	1.36907834	5.90428	17.6965	1.583631008
DR_0867	methylenetetrahydrofolate dehydrogenase/methylenetetrahydrofolate cyclohydrolase	6.60086	16.0397	1.280921254	7.47431	10.6514	0.511030762

DR_0868	bifunctional phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase	5.09738	35.2879	2.791345765	3.4127	19.8608	2.540938234
DR_0869	hypothetical protein	219.757	426.438	0.956426882	334.454	100.606	-1.733091452
DR_0870	transposase	85.8148	106.228	0.3078657	90.0976	84.6156	-0.090565009
DR_0871	hypothetical protein	7.74927	8.68399	0.164297653	9.48671	6.9074	-0.457765075
DR_0872	homoserine O-acetyltransferase	10.6264	20.3953	0.940583803	6.53815	10.8399	0.729397066
DR_0873	O-acetylhomoserine (thiol)-lyase	111.238	65.9597	-0.753992969	157.262	49.7945	-1.659111802
DR_0874	hypothetical protein	2.82856	40.7871	3.849973255	3.63581	24.8514	2.772978414
DR_0875	zinc metalloprotease	3.09911	35.0967	3.501409518	3.82964	15.9913	2.062006541
DR_0876	hypothetical protein	13.8532	56.4077	2.025672845	46.8111	28.1131	-0.73560812
DR_0877	hypothetical protein	506.442	313.872	-0.69022072	332.616	131.827	-1.335211684
DR_0878	adenine phosphoribosyltransferase	76.0516	151.941	0.998460716	43.694	86.4973	0.985219916
DR_0879	hypothetical protein	41.5043	69.1748	0.736985755	23.6421	45.4434	0.942712591
DR_0880	NADH-ubiquinone/plastoquinone subunit	32.1797	50.6931	0.655638514	17.7424	38.0889	1.102169449
DR_0881	cation transport system protein	18.3695	42.1057	1.196703191	14.6817	40.5915	1.467158626
DR_0882	cation transport system protein	13.5801	40.0766	1.561266016	7.25303	32.1381	2.147628918
DR_0884	putative monovalent cation/H ⁺ antiporter subunit E	17.0346	37.6355	1.143626067	15.9641	29.5907	0.890312604
DR_0885	cation transport system protein	33.221	39.7914	0.260361158	20.8939	35.4168	0.76135206
DR_0886	hypothetical protein	18.8818	60.0277	1.668632088	28.3676	50.6274	0.835674297
DR_0887	hypothetical protein	49.5553	58.7079	0.244515288	46.5712	37.5269	-0.311512939
DR_0888	hypothetical protein	2635.82	654.974	-2.008742309	569.677	364.447	-0.644435136
DR_0889	hypothetical protein	105.193	89.0036	-0.241103108	25.9092	80.8794	1.642307825
DR_0890	D-tyrosyl-tRNA(Tyr) deacylase	39.5739	75.4654	0.931266088	12.6221	44.3658	1.813496025
DR_0891	DNA-binding response regulator	3.77065	22.6456	2.586345617	0	14.893	#DIV/0!
DR_0892	sensor histidine kinase	13.3466	21.2592	0.671615041	18.8838	20.098	0.089902834
DR_0893	hypothetical protein	469.638	697.351	0.570335849	679.54	532.992	-0.350444596
DR_0894	hypothetical protein	144.602	48.8711	-1.565034024	83.3832	28.975	-1.524948078
DR_0895	hypothetical protein	5.12641	55.5852	3.438680033	3.10474	19.8672	2.677844196
DR_0896	ribosomal large subunit pseudouridine synthase B	6.27023	39.8315	2.667319542	9.02499	22.7494	1.333831257
DR_0897	hypothetical protein	5.14964	16.534	1.682892307	8.13076	14.1981	0.804235765
DR_0898	hypothetical protein	52.1383	67.9206	0.38150566	164.838	34.0371	-2.275868836
DR_0899	ribonuclease H	58.7825	103.215	0.812194027	122.959	45.2496	-1.442200393
DR_0900	hypothetical protein	23.7653	50.3402	1.082854335	106.378	23.4521	-2.1814108
DR_0901	ribosome-binding factor A	29.9041	83.0655	1.473906101	31.0474	38.6306	0.315271627
DR_0902	hypothetical protein	50.2975	102.239	1.023387032	23.4973	42.0816	0.840694568
DR_0903	hypothetical protein	20.3115	81.7417	2.008775461	22.1755	55.8407	1.332350393
DR_0904	hypothetical protein	49.7268	118.338	1.250817918	39.9465	66.1896	0.728535448
DR_0905	hypothetical protein	156.295	245.54	0.651686442	39.8817	135.737	1.76701522
DR_0906	DNA gyrase subunit B	437.211	2013.1	2.203017235	121.238	845.412	2.801812632
DR_0907	CSD family cold shock protein	2337.6	32955.5	3.817419271	738.77	15378.2	4.379617555
DR_0908	hypothetical protein	46.0869	68.1932	0.565271156	109.284	32.1621	-1.764648681
DR_0909	hypothetical protein	15.3249	32.0209	1.063136198	28.1545	13.28	-1.084110383

DR_0910	cell wall protein	7.74054	67.1018	3.115845346	7.10829	43.9998	2.62992252
DR_0911	DNA-directed RNA polymerase subunit beta'	601.777	911.352	0.59877942	355.559	477.28	0.424746908
DR_0912	DNA-directed RNA polymerase subunit beta	707.064	980.335	0.471434024	437.689	463.084	0.081367785
DR_0913	hypothetical protein	0	43.8188	#DIV/0!	10.9296	23.1313	1.081605747
DR_0914	hypothetical protein	9.66459	35.2779	1.867984248	31.8963	16.5592	-0.945756104
DR_0915	hypothetical protein	300.671	333.965	0.151511189	261.48	153.658	-0.766977721
DR_0917	hypothetical protein	6.33086	22.1864	1.809202195	10.0808	19.2432	0.932738595
DR_0918	MoxR-like protein	0.677344	16.2314	4.582754915	1.52537	7.03093	2.2045563
DR_0919	hypothetical protein	4.17572	18.5898	2.154414368	4.9274	11.9511	1.278244915
DR_0920	M-like protein	19018.5	5102.61	-1.898096181	14277.2	2937.86	-2.280875517
DR_0921	trans-sulfuration enzyme	2.8129	70.2613	4.6426001	4.06077	47.9813	3.562647025
DR_0922	acyl-CoA dehydrogenase	17.8481	37.0962	1.055500908	23.0868	22.4661	-0.039318517
DR_0923	hypothetical protein	67.2116	116.754	0.796689824	164.276	66.2117	-1.310963647
DR_0924	hypothetical protein	81.0504	94.5134	0.221699582	66.726	30.1631	-1.145464313
DR_0925	low-affinity inorganic phosphate transporter putative	87.4894	110.729	0.339852975	72.178	48.046	-0.587142841
DR_0926	sodium extrusion protein NatB	17.0392	41.1075	1.270544034	46.9216	26.7207	-0.812294407
DR_0927	sodium extrusion protein NatA	13.3675	51.3933	1.942850615	30.1385	28.696	-0.070757965
DR_0928	endonuclease III	9.28942	42.526	2.194684734	13.6975	21.6746	0.662092765
DR_0929	acylphosphatase	37.5488	133.541	1.830444041	128.685	43.7113	-1.557765707
DR_0930	phosphotriesterase	15.3189	42.6258	1.476414205	26.3735	22.2431	-0.245731173
DR_0931	hypothetical protein	847.005	777.034	-0.124392759	1682.67	328.978	-2.354689254
DR_0932	polyprenyl synthase	41.8916	62.6335	0.580273513	55.0639	17.4227	-1.660138579
DR_0933	alpha-amylase	6.27086	26.713	2.090806791	11.236	12.0721	0.103548132
DR_0934	MerR family transcriptional regulator	58.7421	252.343	2.102919319	133.119	133.187	0.000736771
DR_0935	phosphatase	5.70318	28.9445	2.343450763	7.40428	21.3038	1.524679431
DR_0936	23S rRNA (adenine(2503)-C(2))-methyltransferase RlmN	82.5279	336.695	2.028488462	102.654	136.921	0.41555389
DR_0937	TPR repeat-containing protein	46.8492	133.688	1.512773656	18.9809	80.375	2.082198432
DR_0938	hypothetical protein	11.553	78.162	2.758199854	12.7458	30.9655	1.280639813
DR_0939	redox-sensing transcriptional repressor Rex	24.8286	129.998	2.388414608	20.3635	59.5959	1.549227534
DR_0940	hypothetical protein	44.3288	229.651	2.373126852	35.7211	112.328	1.65286918
DR_0941	tryptophan synthase subunit beta	51.0876	63.8844	0.322490519	70.3746	42.8334	-0.716318618
DR_0942	tryptophan synthase subunit alpha	31.0784	51.0831	0.716933846	28.6214	27.2355	-0.071605889
DR_0943	hypothetical protein	3.56795	11.627	1.704311597	13.4523	10.9469	-0.29733048
DR_0944	thioredoxin	6840.86	6117.35	-0.161270884	9721.17	2951.8	-1.719534987
DR_0945	hypothetical protein	5.14964	21.8249	2.083431558	4.87845	14.1981	1.541203133
DR_0946	hypothetical protein	9.60091	29.644	1.62649707	6.33415	20.4281	1.689332089
DR_0947	hypothetical protein	3.00551	22.9926	2.93548789	11.1039	6.52253	-0.767562901
DR_0948	hypothetical protein	16.8106	29.0232	0.787835377	23.9238	8.59852	-1.476286296
DR_0949	hypothetical protein	1.31927	14.6934	3.477356509	4.68669	13.4861	1.524831924
DR_0950	NADH dehydrogenase II	261.817	615.913	1.234167804	104.179	274.355	1.396979374
DR_0951	succinate dehydrogenase iron-sulfur subunit	476.503	623.073	0.386915904	251.887	380.834	0.596385619

DR_0952	succinate dehydrogenase flavoprotein subunit	328.006	324.198	-0.016847015	62.6652	257.109	2.036643716
DR_0953	succinate dehydrogenase, hydrophobic subunit SdhD	350.394	429.185	0.292621584	71.1805	273.22	1.940509122
DR_0954	succinate dehydrogenase, cytochrome subunit	132.446	356.757	1.429537464	32.2814	193.729	2.58526488
DR_0955	hypothetical protein	44.7042	65.2042	0.544554516	64.9156	27.7039	-1.228476132
DR_0956	hypothetical protein	15.2922	15.6564	0.033956547	17.7864	11.0076	-0.692274585
DR_0957	sugar ABC transporter ATP-binding protein	92.5786	69.1707	-0.42051769	69.0363	45.3303	-0.606879436
DR_0958	peptide ABC transporter permease	39.3989	459.658	3.544333594	241.186	322.962	0.42121826
DR_0959	peptide ABC transporter permease	30.2377	280.253	3.212309505	139.964	193.326	0.465979875
DR_0960	hypothetical protein	12.3144	45.61	1.889003834	12.0396	25.9356	1.107146284
DR_0961	ribosomal large subunit pseudouridine synthase A	6.93025	16.8075	1.278125848	5.64062	11.5815	1.037896466
DR_0962	hypothetical protein	4.39988	13.8588	1.655266261	8.81085	12.8957	0.549536977
DR_0963	N-acetyl-gamma-glutamyl-phosphate reductase	9.58072	19.284	1.00919835	8.84598	12.3741	0.484229713
DR_0964	carboxypeptidase-like protein	31.9837	34.3704	0.103829797	74.8545	18.4107	-2.023544568
DR_0965	GMC oxidoreductase	2.87654	7.60036	1.401733223	5.295	7.30977	0.465195329
DR_0966	B12-dependent methionine synthase	14.6571	31.7823	1.116623847	11.0067	17.441	0.664100772
DR_0967	hypothetical protein	14.2663	14.6042	0.033772114	19.6828	14.3709	-0.453785052
DR_0968	5,10-methylenetetrahydrofolate reductase-like protein	9.05432	22.3886	1.306086116	4.77178	10.9238	1.194875371
DR_0969	hypothetical protein	91.8809	49.1108	-0.903724665	28.1314	39.1055	0.475190178
DR_0970	electron transfer flavoprotein subunit alpha	523.171	701.243	0.422631892	413.349	251.793	-0.715122221
DR_0971	electron transfer flavoprotein subunit beta	373.086	610.119	0.709582435	275.056	182.223	-0.594020308
DR_0972	hypothetical protein	1497.04	357.515	-2.066037091	617.41	186.026	-1.730724576
DR_0973	gamma-carboxymuconolactone decarboxylase	5.50718	26.2978	2.255556444	0	20.251	#DIV/0!
DR_0974	hypothetical protein	22.9393	30.0919	0.391553833	37.4015	17.1561	-1.124374501
DR_0975	MutT/nudix family protein	46.182	50.2357	0.121382327	42.6508	31.5682	-0.434100801
DR_0976	peptide chain release factor 1	41.6322	51.0637	0.294598279	34.2096	21.567	-0.665575726
DR_0977	phosphoenolpyruvate carboxykinase	228.312	127.833	-0.836746374	187.763	44.4543	-2.078517917
DR_0978	transposase	25.6888	37.1463	0.532079017	14.3367	22.7547	0.666451581
DR_0979	transposase	57.8712	92.1714	0.671473604	90.7889	101.461	0.160337458
DR_0980	glutamate dehydrogenase	2.61198	26.1921	3.32591598	3.38398	14.4944	2.098702667
DR_0981	GGDEF family protein	9.80197	72.806	2.892913713	26.0381	50.0234	0.941978939
DR_0982	hypothetical protein	60.4058	116.145	0.943168063	155.39	75.6652	-1.038191831
DR_0983	tRNA nucleotidyltransferase	13.5665	16.0986	0.246886661	22.8778	8.70627	-1.393821658
DR_0985	hypothetical protein	82.5621	230.99	1.484278824	120.908	130.681	0.112139695
DR_0986	extracellular solute-binding protein	358.536	2129.98	2.570649994	102.771	1027.45	3.321563062
DR_0987	DNA-binding response regulator	20.934	38.6336	0.884008115	39.623	19.9414	-0.990571417
DR_0988	hypothetical protein	413.158	643.489	0.639221884	149.436	371.841	1.31515811
DR_0989	cationic outer membrane protein OmpH	4114.79	2023.63	-1.023873272	957.191	1349.81	0.49587761
DR_0990	acetoin utilization protein	63.7305	81.278	0.350880923	106.469	33.9706	-1.648074825
DR_0991	class V aminotransferase	19.143	19.5979	0.033882132	16.2914	12.7825	-0.349940561
DR_0992	NADH oxidase	3.27637	11.1522	1.767158145	13.3168	5.99531	-1.151341189

DR_0993	hypothetical protein	11.0202	68.9778	2.645981709	29.6105	48.2668	0.70492233
DR_0994	hypothetical protein	13.817	71.1843	2.365114678	27.6718	37.4869	0.437970034
DR_0995	hypothetical protein	45.7393	118.289	1.370809728	78.9868	56.9548	-0.471794142
DR_0996	hypothetical protein	4.76138	5.83779	0.294042541	0	19.7783	#DIV/0!
DR_0997	CRP/FNR family transcriptional regulator	468.853	124.344	-1.914798769	301.257	65.2304	-2.207378384
DR_0998	mrp protein	50.0986	148.049	1.563232553	91.988	46.7398	-0.97679411
DR_0999	hypothetical protein	35.8156	120.14	1.746056553	65.6564	54.3527	-0.272583944
DR_1000	hypothetical protein	9.83114	79.0326	3.007017247	8.13076	32.5374	2.000636857
DR_1001	bifunctional 3-deoxy-7-phosphoheptulonate synthase/chorismate mutase	287.169	86.1033	-1.737759581	264.3	41.6903	-2.664392766
DR_1002	hypothetical protein	12.2221	19.5496	0.677646899	29.0121	8.68597	-1.739895852
DR_1003	transcriptional regulator	11.396	13.5084	0.245329278	42.6902	9.20987	-2.212652224
DR_1004	sugE protein	13.5419	27.8683	1.041194828	27.9725	14.5999	-0.938050711
DR_1005	sugE protein	42.9235	36.5677	-0.231197831	42.7581	30.0619	-0.508261552
DR_1006	dGTP triphosphohydrolase-like protein	12.9702	19.2318	0.568293072	17.9294	9.2626	-0.952838092
DR_1007	MutT/nudix family protein	26.1954	40.7096	0.636055554	45.0826	27.399	-0.718447482
DR_1008	riboflavin kinase/FMN adenylyltransferase	30.7731	38.6952	0.330484832	30.1439	23.5542	-0.355881751
DR_1009	hypothetical protein	1.25386	9.98813	2.993838326	3.00941	8.6776	1.527815414
DR_1010	hypothetical protein	0	2.0938	#DIV/0!	1.46923	0	#NUM!
DR_1011	hypothetical protein	45.5695	45.6477	0.00247363	43.5552	16.0197	-1.44299784
DR_1012	ABC transporter ATP-binding protein	32.789	82.4821	1.330869161	67.851	42.273	-0.682633578
DR_1013	hypothetical protein	6.93025	47.1991	2.767780048	4.51249	28.1265	2.639934398
DR_1014	vanadium chloroperoxidase-like protein	40.9872	87.703	1.097452756	30.2929	43.4604	0.520721756
DR_1015	hypothetical protein	24.8569	106.958	2.105326105	20.9027	43.1534	1.045784925
DR_1016	tRNA modification GTPase TrmE	30.9843	182.987	2.562131878	34.6882	86.0884	1.311373875
DR_1017	rRNA methylase	21.9356	29.467	0.42582602	27.1309	19.5102	-0.475708339
DR_1018	hypothetical protein	9.08444	55.9672	2.623112083	13.9644	24.3127	0.79995653
DR_1019	glycerol-3-phosphate dehydrogenase	104.935	105.388	0.00621465	38.5972	188.174	2.285499207
DR_1020	cell division protein FtsH	63.7408	53.4646	-0.253633156	106.498	29.7718	-1.838807983
DR_1021	hypothetical protein	468.17	331.885	-0.496349064	507.748	140.956	-1.848867762
DR_1022	hypothetical protein	10.6065	23.9149	1.172961094	15.8688	11.9975	-0.403459223
DR_1023	hypothetical protein	23.981	42.0265	0.809407493	13.0562	22.9833	0.815850896
DR_1024	metal-dependent hydrolase	15.6428	27.0529	0.790284483	21.5738	20.5819	-0.067904145
DR_1025	MutT/nudix family protein	9.27691	18.5963	1.003299355	8.7458	10.2491	0.228834966
DR_1026	oxidoreductase	30.8285	12.6535	-1.284728201	29.7307	7.40117	-2.006128172
DR_1028	amino acid ABC transporter permease	108.655	8.35524	-3.700929485	48.0972	13.9416	-1.786556768
DR_1029	transcription regulator	8.50673	4.78051	-0.831440127	10.727	6.96686	-0.622666179
DR_1030	aminotransferase	9.21432	4.0474	-1.186882266	5.64872	5.7332	0.021416618
DR_1031	(S)-2-hydroxy-acid oxidase	13.3646	13.4669	0.011001131	6.88714	9.87589	0.520005763
DR_1032	gufA protein	3.97908	15.2706	1.940249938	7.93606	7.06592	-0.167545518
DR_1033	hypothetical protein	3.0773	16.1872	2.395116454	5.5368	9.89179	0.837179202
DR_1034	ABC transporter ATP-binding protein	33.8056	51.9247	0.619158723	23.1338	36.0325	0.639296487
DR_1035	ABC transporter ATP-binding protein	106.349	121.378	0.190700486	171.965	66.523	-1.370189827

DR_1036	branched-chain amino acid ABC transporter permease	40.22	31.0219	-0.374626032	38.3884	28.6095	-0.424176147
DR_1037	branched-chain amino acid ABC transporter permease	59.8936	40.9309	-0.549211461	37.1235	55.3199	0.575465815
DR_1038	branched-chain amino acid ABC transporter periplasmic amino acid-binding protein	69.7186	104.737	0.587155683	47.9105	38.8708	-0.30165507
DR_1040	hypothetical protein	2.12003	87.1931	5.362057387	7.57323	23.541	1.636194957
DR_1041	hypothetical protein	8.98093	67.6788	2.913767236	7.00449	35.5778	2.344625386
DR_1042	Pex-like protein	5.76825	22.2281	1.946179037	11.936	13.8155	0.210968335
DR_1043	hypothetical protein	0	15.0278	#DIV/0!	3.95312	18.0493	2.190879232
DR_1044	hypothetical protein	16.6028	24.7457	0.575751286	8.66753	20.3947	1.234501456
DR_1045	hypothetical protein	0.973865	8.63121	3.147769123	3.58682	10.1296	1.497799953
DR_1046	ATP-dependent Clp protease, ATP-binding subunit ClpB	118.735	90.1477	-0.397382678	91.5807	64.8502	-0.497932569
DR_1047	hypothetical protein	1.22599	11.4047	3.217609381	12.9944	14.0612	0.1138297
DR_1048	hypothetical protein	2.40938	8.18166	1.763731636	0	10.7399	#DIV/0!
DR_1049	hypothetical protein	16.1734	17.8018	0.138400128	29.5334	20.9434	-0.495851783
DR_1050	hypothetical protein	10.1884	10.4738	0.039857455	10.6684	11.6154	0.122695014
DR_1051	hypothetical protein	13.9595	10.6373	-0.392115261	19.868	3.93128	-2.337375625
DR_1052	hypothetical protein	2.27202	6.89879	1.602367811	6.50869	8.09188	0.314107723
DR_1053	hydrolase	7.33314	9.75247	0.411336573	15.1043	6.44786	-1.228067
DR_1054	hypothetical protein	76.2738	24.2445	-1.653530076	114.236	37.5838	-1.603834523
DR_1055	aspartyl-tRNA synthetase	125.599	55.8364	-1.169547145	93.0464	43.275	-1.104416513
DR_1056	hypothetical protein	9.87873	13.8251	0.484892428	8.57618	7.61263	-0.171940226
DR_1057	phosphinothricin acetyltransferase	251.213	37.9789	-2.725641098	546.276	45.6314	-3.581531219
DR_1058	hypothetical protein	145.521	17.0638	-3.092216496	41.2776	7.93463	-2.379124235
DR_1059	hypothetical protein	6.79293	13.7361	1.015866555	10.9917	12.5787	0.194568295
DR_1060	arginine/ornithine transport system ATPase	13.8053	16.8319	0.285975799	11.4936	11.9717	0.058797285
DR_1061	NADPH quinone oxidoreductase	34.1506	36.6018	0.100003673	47.944	18.2065	-1.396896672
DR_1062	FemA-like protein	8.13236	102.502	3.655834168	6.51689	31.2945	2.263653577
DR_1063	peptidyl-prolyl cis-trans isomerase C	83.5502	64.2501	-0.378944582	72.591	28.2109	-1.363537998
DR_1064	hypothetical protein	18.2205	16.564	-0.137511442	25.5679	10.5999	-1.270283016
DR_1065	hypothetical protein	75.6267	25.5487	-1.565645784	33.9744	20.9875	-0.694917748
DR_1066	hypothetical protein	320.051	58.5231	-2.451223719	237.266	67.2886	-1.818071368
DR_1067	hypothetical protein	3070.89	2374.95	-0.370759695	4699.07	896.692	-2.389690827
DR_1068	3-hydroxybutyryl-CoA dehydrogenase	216.619	168.262	-0.364450392	54.1711	88.2121	0.703453176
DR_1069	hypothetical protein	44.0037	63.0628	0.519164391	43.8833	32.376	-0.438747266
DR_1070	peptidase E	88.4328	67.2205	-0.395680295	49.0147	44.8981	-0.126560099
DR_1071	hypothetical protein	83.2521	63.5013	-0.390700537	89.6823	37.5322	-1.25669442
DR_1072	acetyl-CoA acetyltransferase	10.8184	22.6607	1.066705282	20.2439	14.7012	-0.461553332
DR_1073	hypothetical protein	15.8898	11.0083	-0.529509274	13.7101	12.1273	-0.176980707
DR_1074	(3R)-hydroxymyristoyl-ACP dehydratase	20.7225	31.3121	0.595522206	31.3897	11.9288	-1.395842321
DR_1075	hypothetical protein	43.7482	61.4454	0.490081351	106.304	36.5215	-1.541377958
DR_1076	cell wall synthesis protein	1.33306	26.246	4.299283945	6.40719	19.6474	1.616574731
DR_1077	chitooligosaccharide deacetylase	0.587444	16.47	4.809245416	1.31843	8.7652	2.732966034

DR_1078	antibiotic biosynthesis protein LmbJ	42.0305	57.2183	0.445040016	37.8359	32.6931	-0.210769581
DR_1079	hypothetical protein	173.842	115.682	-0.587612277	157.665	67.8916	-1.215557441
DR_1080	hypothetical protein	8.4603	30.5541	1.852585259	9.72171	15.2143	0.646145954
DR_1081	TetR family transcriptional regulator	24.962	33.6585	0.431237354	66.5524	16.8534	-1.981451024
DR_1082	light-repressed protein A	1518.49	148.351	-3.355550851	1467.94	54.7625	-4.744460881
DR_1083	hypothetical protein	112.35	20.7928	-2.433844172	86.343	16.2505	-2.409595112
DR_1084	methyilmalonyl-CoA mutase	54.6072	48.4154	-0.17362517	67.4934	29.312	-1.203255023
DR_1085	hypothetical protein	8.83252	15.8932	0.847512616	25.5768	7.24251	-1.820274098
DR_1086	alanine racemase	18.8453	24.686	0.389488327	21.1975	13.2138	-0.681848712
DR_1087	isopentenyl pyrophosphate isomerase	13.3395	21.1677	0.666159929	12.828	9.79008	-0.389903705
DR_1088	hypothetical protein	0.862749	24.5856	4.832728857	1.95663	7.19073	1.877767273
DR_1089	recombination protein F	45.3215	101.939	1.16943859	51.7608	61.1447	0.240367537
DR_1090	GGDEF family protein	4.71073	21.3957	2.18329833	6.8186	14.5285	1.0913383
DR_1091	hypothetical protein	52.2556	31.7252	-0.719956394	90.1069	12.3855	-2.862985475
DR_1092	hypothetical protein	4.07485	4.98485	0.29080314	6.14762	2.22154	-1.468467873
DR_1093	tryptophanyl-tRNA synthetase II	15.7326	14.3454	-0.133168917	9.24481	12.7822	0.467420591
DR_1094	hypothetical protein	302.049	84.4993	-1.837771315	365.222	64.7777	-2.495204522
DR_1095	hypothetical protein	27.669	5.62908	-2.297299447	0	19.1028	#DIV/0!
DR_1096	3-phosphoshikimate 1-carboxyvinyltransferase	11.3588	10.4533	-0.119851971	11.7709	8.50121	-0.469484529
DR_1097	phosphoglycerate mutase	2.62206	14.4306	2.460358682	3.8612	8.94398	1.211867678
DR_1098	hypothetical protein	32.9184	21.9653	-0.583668011	76.011	14.1543	-2.424967812
DR_1099	hypothetical protein	1.38574	24.4569	4.141513047	1.60332	17.5048	3.448616278
DR_1100	hypothetical protein	5.47898	52.6788	3.26524324	10.2353	27.0349	1.401269631
DR_1101	hypothetical protein	8.86812	12.6014	0.506883827	21.329	13.9953	-0.607873915
DR_1102	cation efflux system protein	9.97296	10.0168	0.006328025	27.0229	7.46392	-1.85617708
DR_1103	ABC transporter ATP-binding protein	1.85531	10.679	2.525044388	3.25121	6.03574	0.892553916
DR_1104	hypothetical protein	239.063	294.101	0.29892083	724.909	93.356	-2.956985248
DR_1105	DNA repair protein RadA	6.08102	53.1435	3.127508006	5.09272	27.7155	2.44418473
DR_1106	dihydroorotase	47.1522	59.4051	0.333261709	38.5432	50.1968	0.381119042
DR_1107	hypothetical protein	39.5885	64.6952	0.708577272	21.847	44.8994	1.039260982
DR_1108	hypothetical protein	5.17858	39.0285	2.913899555	2.29627	27.2765	3.570294344
DR_1109	aspartate carbamoyltransferase catalytic subunit	15.3159	62.9929	2.040159084	11.4435	33.3721	1.544114105
DR_1110	bifunctional pyrimidine regulatory protein PyrR uracil phosphoribosyltransferase	22.9239	72.9558	1.670170169	19.5587	40.6539	1.055583277
DR_1111	MerR family transcriptional regulator	8.46257	8.37269	-0.015404652	8.30519	5.93507	-0.484748128
DR_1112	hypothetical protein	5.37443	9.38758	0.804641543	6.31759	5.32213	-0.247370561
DR_1113	hypothetical protein	4.81877	9.47351	0.97523411	4.2509	9.20565	1.114751271
DR_1114	HSP20 family protein	353.589	293.354	-0.26943073	652.294	117.69	-2.470530617
DR_1115	S-layer-like array-like protein	81.5625	37.4476	-1.123032737	58.5175	31.189	-0.907830839
DR_1116	hypothetical protein	368.258	439.484	0.255093777	106.04	310.885	1.551772434
DR_1117	ATP-dependent Clp protease, ATP-binding subunit ClpC	382.8	309.414	-0.307052354	131.267	119.633	-0.133888871
DR_1118	hypothetical protein	21.5274	94.7715	2.138279186	60.8068	62.2151	0.033032105

DR_1119	hypothetical protein	102.35	200.044	0.966806256	123.059	125.354	0.026657859
DR_1120	butyrate kinase	65.3227	151.547	1.214108965	92.1746	47.7016	-0.950331593
DR_1121	hypothetical protein	41.1678	98.7872	1.262807768	89.3399	19.2584	-2.213816792
DR_1122	prephenate dehydrogenase	46.282	84.2372	0.864006273	40.2884	38.2277	-0.07574611
DR_1123	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	666.496	113.863	-2.5492972	337.55	64.7658	-2.381797124
DR_1124	SLH family protein	6458.12	6107.38	-0.080560636	2218.45	2880.69	0.376862378
DR_1125	hypothetical protein	68.1008	222.263	1.706524152	60.1804	83.4454	0.471538826
DR_1126	single-stranded-DNA-specific exonuclease	30.9095	99.5585	1.687494177	18.5042	39.9865	1.111660244
DR_1127	hypothetical protein	23.2943	81.2776	1.802880824	6.95041	38.0562	2.452961523
DR_1128	hypothetical protein	41.1339	51.3767	0.320786363	73.8178	29.798	-1.308753239
DR_1129	hypothetical protein	4.88576	45.3938	3.215840362	6.15405	19.0564	1.630667531
DR_1130	protoporphyrinogen oxidase	45.1009	164.955	1.87084438	22.4208	71.5345	1.673801443
DR_1131	ferrochelatase	149.444	259.344	0.795262017	29.7003	195.506	2.718663475
DR_1132	dihydroxy-acid dehydratase	181.736	240.187	0.402313837	124.433	134.578	0.113073443
DR_1133	uroporphyrinogen decarboxylase	14.0645	283.817	4.334830836	7.44475	196.923	4.72526441
DR_1134	hypothetical protein	0	2.86657	#DIV/0!	0	9.54478	#DIV/0!
DR_1135	hypothetical protein	33.6337	25.0467	-0.425286961	16.7678	15.8155	-0.084354247
DR_1136	hypothetical protein	20.9289	35.1521	0.748114392	20.3598	22.8148	0.164246617
DR_1137	hypothetical protein	6.14472	9.87173	0.683955664	4.16079	7.66307	0.881065009
DR_1138	hypothetical protein	259.799	82.9543	-1.647007206	148.862	56.2446	-1.404189028
DR_1139	hypothetical protein	21.4249	21.0266	-0.027072885	14.92	9.56459	-0.641472504
DR_1140	hypothetical protein	12.5793	34.9444	1.474009633	26.2519	24.434	-0.103531781
DR_1141	glycosyl hydrolase family protein	2.15195	25.1281	3.545585127	1.54504	14.2987	3.210167893
DR_1142	hypothetical protein	1.12069	47.2028	5.396413274	2.68402	33.9688	3.661742927
DR_1143	hypothetical protein	2.5666	68.0107	4.727831364	8.81085	36.3844	2.045966909
DR_1144	hypothetical protein	8.66257	88.1246	3.346677794	2.37349	46.5152	4.292620353
DR_1145	GTP-binding protein LepA	38.198	134.16	1.812385586	19.465	73.399	1.914878063
DR_1146	general stress protein 26	1296.96	536.303	-1.274013757	1397.25	187.772	-2.895536321
DR_1147	chorismate mutase/prephenate dehydratase	68.1813	71.6336	0.07126034	75.6661	45.4222	-0.736249503
DR_1148	hypothetical protein	20.5667	63.4944	1.62631903	73.9495	19.9191	-1.892387929
DR_1149	Na ⁺ /H ⁺ antiporter (dimethylallyl)adenosine tRNA	38.5783	73.4581	0.92913201	68.8387	49.7951	-0.467216069
DR_1150	methylthiotransferase	228.405	253.108	0.148158875	207.367	102.302	-1.019351975
DR_1151	3-hydroxybutyryl-CoA dehydratase	86.9765	96.2112	0.145579194	117.216	32.2513	-1.861740292
DR_1152	hypothetical protein	12.1885	31.6361	1.376051171	4.77178	27.0909	2.505208888
DR_1153	allantoinase	21.7817	40.2021	0.884154307	6.96557	31.7693	2.189319982
DR_1154	allantoate amidohydrolase	15.4043	47.2394	1.616657516	6.95041	23.1139	1.733590717
DR_1155	malate synthase	13.6644	25.7829	0.915992431	5.03232	21.098	2.067810674
DR_1156	transcriptional regulator	16.696	35.3373	1.081689307	20.4254	22.091	0.113094395
DR_1158	hypothetical protein	28.0082	92.8645	1.729277923	10.2687	50.9859	2.311844779
DR_1159	MarR family transcriptional regulator	4.65316	49.1516	3.40095568	9.03093	19.0012	1.073144065
DR_1160	uricase	9.11232	151.273	4.053192289	26.2675	59.3372	1.175657952

DR_1161	hypothetical protein	10.565	201.227	4.251459222	10.5964	97.3338	3.199366671
DR_1162	transcription elongation factor	86.7395	883.671	3.348748307	370.872	209.28	-0.825486906
DR_1163	twitching motility protein	35.1048	65.2124	0.893478007	42.2866	45.1139	0.093371442
DR_1164	pantoate--beta-alanine ligase	151.941	97.0336	-0.646954918	164.395	58.9057	-1.480687273
DR_1165	hypothetical protein	151.104	191.895	0.344775269	259.646	73.128	-1.828050189
DR_1166	hypothetical protein	72.1137	123.552	0.776773094	131.025	39.3176	-1.736594944
DR_1167	dedA protein	40.3047	109.569	1.44281969	171.157	55.4605	-1.625787769
DR_1168	MutT/nudix family protein	11.3032	74.0785	2.71232362	20.2606	40.9302	1.014488817
DR_1169	hypothetical protein	22.9664	42.5115	0.888328434	16.19	28.5786	0.819832258
DR_1170	hypothetical protein	19.8474	66.4831	1.744037627	20.0097	41.1767	1.041128676
DR_1171	hypothetical protein	30.99	69.0736	1.156331662	43.2048	27.127	-0.671462095
DR_1172	hypothetical protein	3188.48	1161.87	-1.456420175	3028.27	422.26	-2.842290347
DR_1173	shikimate 5-dehydrogenase	19.8386	52.5723	1.405992634	23.2158	16.4929	-0.493261901
DR_1174	sensory box sensor histidine kinase	19.9559	41.8032	1.066798039	24.1863	22.8062	-0.084764001
DR_1175	sensor histidine kinase/response regulator	18.1545	112.323	2.629254272	11.8208	46.715	1.982558191
DR_1176	hypothetical protein	579.133	157.065	-1.882532977	86.2731	89.6358	0.055164255
DR_1177	hypothetical protein	52.1209	26.4136	-0.980581051	85.4938	19.1209	-2.160669369
DR_1178	hypothetical protein	10.2009	9.39427	-0.11884348	5.11049	9.0089	0.817889336
DR_1179	hypothetical protein	7.47218	16.231	1.119150774	7.40525	8.23066	0.152459681
DR_1180	hypothetical protein	156.719	170.776	0.123925143	267.399	51.2425	-2.383581302
DR_1181	hypothetical protein	67.7005	52.4689	-0.367703944	38.7576	31.6537	-0.292105091
DR_1182	phosphinothricin acetyltransferase	34.9112	24.8313	-0.491530154	28.6802	15.9261	-0.848662063
DR_1183	nucleoside triphosphate pyrophosphohydrolase	23.6707	23.9346	0.015995325	25.3024	12.4809	-1.019552264
DR_1184	MutT/nudix family protein	19.7959	18.9823	-0.060546852	32.7563	11.3187	-1.533064138
DR_1185	S-layer-like array-like protein	1803.09	734.375	-1.295882558	702.064	530.287	-0.404829171
DR_1186	hypothetical protein	2.30575	18.7636	3.024628648	0	38.2055	#DIV/0!
DR_1187	hypothetical protein	83.9295	108.979	0.376800267	69.8627	92.6505	0.407276362
DR_1188	permease	15.1912	24.8726	0.711321487	21.1113	18.4316	-0.195834107
DR_1189	methylmalonyl-CoA mutase subunit alpha, chain A	44.7784	53.829	0.265580645	102.365	35.9269	-1.510586161
DR_1190	hypothetical protein	56.5825	81.5356	0.527074184	63.6581	46.4721	-0.453979258
DR_1191	tRNA nucleotidyltransferase/poly A polymerase family protein	9.49349	7.76855	-0.289293204	12.6395	5.78507	-1.127533072
DR_1192	hypothetical protein	6.04626	26.3973	2.12627545	7.28617	14.2474	0.967466105
DR_1193	hypothetical protein	8.01264	35.3004	2.139334967	16.3781	14.893	-0.137133606
DR_1194	hypothetical protein	28.5239	64.8031	1.183891578	28.6889	40.7283	0.505538945
DR_1195	hypothetical protein	9.88135	40.5941	2.038489997	21.7556	29.2151	0.425327422
DR_1196	transposase	8.74096	33.2914	1.9292859	10.8127	34.0449	1.654711877
DR_1197	hypothetical protein	46.5723	139.931	1.587171572	30.7176	148.654	2.274820878
DR_1198	GTP-binding elongation factor family protein TypA/BipA	105.26	1581.67	3.909419422	39.4457	532.405	3.754584175
DR_1199	protease I	2368.26	976.453	-1.278204967	1099.39	337.064	-1.705608808
DR_1200	hypothetical protein	19.2536	65.9666	1.776607525	38.2747	33.9055	-0.17487175
DR_1201	hypothetical protein	3.27446	17.6697	2.431948633	2.36309	9.22557	1.964963474

DR_1202	hypothetical protein	71.7025	149.291	1.058031869	75.1704	91.2304	0.279349962
DR_1203	LmbE-like protein	25.3542	43.4279	0.776397438	37.0141	19.4999	-0.924608224
DR_1204	4-carboxymuconolactone decarboxylase	24.8666	8.45746	-1.555912908	31.2995	14.3182	-1.128289474
DR_1205	2-deoxyribose-5-phosphate aldolase	54.0735	64.1172	0.245789684	41.4127	25.7113	-0.687670709
DR_1206	Maf-like protein	29.4934	54.2315	0.878738929	45.5322	28.9879	-0.651436346
DR_1207	cell cycle protein MesJ /cytosine deaminase-like protein	15.4199	24.3947	0.661774332	12.1424	14.4366	0.249677405
DR_1208	bacterioferritin comigratory protein	2.38864	10.241	2.100095255	8.42345	10.6443	0.337597932
DR_1209	bacterioferritin comigratory protein	9.27691	22.1385	1.254841225	24.051	14.1911	-0.761110458
DR_1210	hypothetical protein	5.83951	20.7515	1.829296403	9.37948	6.36563	-0.559204638
DR_1211	hypothetical protein	29.4934	87.6302	1.571036006	32.523	27.2131	-0.25715903
DR_1212	hypothetical protein	117.364	469.832	2.001155031	318.069	131.019	-1.279563727
DR_1213	serine/threonine protein kinase	7.09158	21.6696	1.611493523	6.95708	9.97496	0.519829146
DR_1214	acetyl-CoA carboxylase carboxyltransferase subunit alpha	69.5687	81.4469	0.227421427	173.834	42.1239	-2.044999367
DR_1215	acetyl-CoA carboxylase carboxyl transferase subunit beta	326.942	143.559	-1.187390943	451.897	93.9867	-2.265465458
DR_1216	hypothetical protein	175.975	112.638	-0.643676863	165.568	90.7147	-0.868015606
DR_1217	IclR family transcriptional regulator	4.44691	36.0674	3.019820315	10.1818	19.0893	0.906771568
DR_1218	hypothetical protein	322.844	111.769	-1.530317114	569.654	59.1874	-3.266723924
DR_1219	ferrous iron transport protein B	145.968	40.3041	-1.856653615	508.428	23.1987	-4.453927617
DR_1220	ferrous iron transport protein A	184.46	39.4036	-2.226908654	731.039	44.5731	-4.035703167
DR_1221	hypothetical protein	5.60001	11.0079	0.975037961	10.7929	4.39202	-1.297126033
DR_1222	polysaccharide deacetylase	2.62206	18.3663	2.808288412	3.8612	8.0025	1.051401488
DR_1223	multidrug resistance protein-like protein	7.09575	29.3161	2.046666105	6.11552	14.4668	1.242198758
DR_1224	glycosyl transferase-like protein	36.1689	44.0624	0.284798356	140.467	16.1325	-3.122189306
DR_1225	mannosyltransferase	30.0706	52.2298	0.796519525	32.8658	29.6197	-0.150030074
DR_1226	hypothetical protein	6.14189	9.85022	0.681473273	10.366	7.37441	-0.491259765
DR_1227	two-component sensor histidine kinase	3.12114	15.6985	2.330481739	2.75526	5.30074	0.944005313
DR_1228	hypothetical protein	3.18298	11.5739	1.862425087	14.361	8.19718	-0.808956629
DR_1229	hypothetical protein	2.80304	19.2492	2.779734251	2.59088	6.99507	1.432896298
DR_1230	hypothetical protein	8.50974	33.5854	1.980647253	12.5758	10.2035	-0.301586069
DR_1231	hypothetical protein	686.237	349.118	-0.974992172	2972.67	199.502	-3.897284202
DR_1232	pilin, type IV	220.09	263.443	0.25939725	1210.14	116.545	-3.376214945
DR_1233	pilin, type IV	254.202	287.367	0.176919017	719.321	152.066	-2.241938102
DR_1234	hypothetical protein	153.83	323.917	1.074287301	333.314	172.534	-0.950001224
DR_1235	hypothetical protein	28.8755	34.8686	0.272082512	39.9441	17.013	-1.231344861
DR_1236	hypothetical protein	6.16099	12.6334	1.036008862	9.57229	7.368	-0.377591044
DR_1237	hypothetical protein	37.1075	37.1295	0.00085508	53.6542	26.175	-1.035501571
DR_1238	homocitrate synthase	29.2497	39.3799	0.42903762	33.7398	25.9139	-0.380725267
DR_1239	MaoC-like protein	46.5875	21.0549	-1.14578689	45.4804	14.8424	-1.61552055
DR_1240	citrate lyase subunit beta	7.89573	10.1671	0.364763671	22.8935	10.9712	-1.061216709
DR_1241	hypothetical protein	0	9.11269	#DIV/0!	11.7658	3.83202	-1.618422422
DR_1242	hypothetical protein	29.1705	202.958	2.798599188	101.953	64.0476	-0.670687812

DR_1243	serine/threonine protein kinase	4.50039	92.2727	4.357781937	5.11049	27.0267	2.402851837
DR_1244	hypothetical protein	11.2319	54.3904	2.27575004	13.0267	29.7726	1.192513557
DR_1245	hypothetical protein	2205.54	2185.63	-0.013082734	856.049	1374.47	0.683110135
DR_1246	proline dipeptidase	5.27891	27.7736	2.395402216	5.42944	14.8697	1.453500232
DR_1247	succinyl-CoA synthetase subunit beta	42.7355	379.36	3.150060661	20.6714	130.241	2.655475676
DR_1248	succinyl-CoA synthetase subunit alpha	32.4717	324.838	3.322465589	42.6285	102.935	1.271843415
DR_1249	hypothetical protein	284.785	204.713	-0.476270438	383.84	85.1868	-2.171803261
DR_1250	hypothetical protein	14.5205	26.4776	0.866681226	23.6906	19.4404	-0.285256834
DR_1251	hypothetical protein	20.0818	36.993	0.881363714	50.7734	12.7136	-1.997700269
DR_1252	hypothetical protein	52.0858	181.781	1.803239401	26.0675	91.717	1.814936938
DR_1253	hypothetical protein	6.12731	8.6586	0.498879932	21.2916	8.3401	-1.352147781
DR_1254	hypothetical protein	18.5661	22.2007	0.257934372	38.2318	10.7613	-1.828920755
DR_1255	acyl-CoA dehydrogenase	12.6402	37.1333	1.554694241	33.6617	14.71	-1.194310792
DR_1256	hypothetical protein	8.53382	12.0187	0.49401727	20.3186	2.3006	-3.142718928
DR_1257	L-sorbose dehydrogenase	23.6985	17.4302	-0.443206623	35.9085	10.3145	-1.799651501
DR_1258	SNF2/Rad54 helicase-like protein	11.7282	101.492	3.113312497	14.0509	45.8427	1.706029475
DR_1259	SNF2/RAD54 family DNA helicase	16.7989	104.365	2.635199296	13.8172	62.36	2.174155639
DR_1260	hypothetical protein	18.6441	82.3768	2.143518928	42.1938	37.5256	-0.169155884
DR_1261	hypothetical protein	16649.7	3925.9	-2.084400852	12175.3	1813.92	-2.746774586
DR_1262	ribonucleoprotein Ro/SS-A-like protein	205.969	202.091	-0.027422143	22.5291	138.662	2.621710888
DR_1263	hypothetical protein	2202.38	3391.09	0.62268566	1331.2	6829.01	2.358949108
DR_1264	hypothetical protein	5294.74	6507.45	0.29753248	3903.33	10903.7	1.482040431
DR_1265	hypothetical protein	4.39033	7.42785	0.758615297	5.34992	7.85328	0.553778017
DR_1266	prolyl-tRNA synthetase	65.0291	163.564	1.330697888	81.703	67.3394	-0.278938186
DR_1267	hypothetical protein	29.8579	33.71	0.175063928	29.4821	32.6931	0.149146891
DR_1268	hypothetical protein	15.9149	24.8839	0.644834522	22.9777	15.3697	-0.58014539
DR_1269	hypothetical protein	24.2601	174.722	2.848403873	134.541	69.8115	-0.946509271
DR_1271	hypothetical protein	5.72234	39.437	2.784872684	9.76713	20.3065	1.055934996
DR_1272	hypothetical protein	6.26533	24.6274	1.974801921	19.0251	21.4893	0.175714452
DR_1273	hypothetical protein	6.35132	40.7336	2.681090959	17.6876	17.3593	-0.027029531
DR_1274	Holliday junction DNA helicase RuvA	30.1449	52.9869	0.813721781	40.5476	19.3103	-1.070245946
DR_1275	aspartyl/glutamyl-tRNA amidotransferase subunit C	572.442	214.642	-1.415197124	124.388	281.577	1.178682183
DR_1276	seryl-tRNA synthetase	148.909	122.125	-0.28607239	78.9125	58.559	-0.430362929
DR_1277	ABC transporter periplasmic substrate-binding protein	2293.53	318.294	-2.849137912	438.278	243.821	-0.846023874
DR_1278	homoserine dehydrogenase	24.9324	41.7944	0.745287886	21.9561	27.0567	0.301364075
DR_1279	Mn family superoxide dismutase	3966.1	2111.47	-0.909473304	1362.03	871.139	-0.64478364
DR_1280	hypothetical protein	5.50264	24.1506	2.133863181	0	16.4331	#DIV/0!
DR_1281	hypothetical protein	14.9932	50.4564	1.750728945	9.11504	19.6309	1.106805424
DR_1282	hypothetical protein	21.1255	35.6667	0.755592251	27.7369	42.5985	0.618996076
DR_1283	phosphoenolpyruvate carboxylase	44.95	29.1861	-0.623039673	16.5141	23.3329	0.498667282
DR_1284	hypothetical protein	29.3535	34.8981	0.249615957	102.721	59.9444	-0.777034264

DR_1285	transposase	3.31745	13.4188	2.016109035	1.26567	12.9658	3.356738021
DR_1286	hypothetical protein	0	19.0215	#DIV/0!	0	3.99169	#DIV/0!
DR_1287	hypothetical protein	0	20.3489	#DIV/0!	0	12.8911	#DIV/0!
DR_1288	hypothetical protein	0	47.3431	#DIV/0!	0	10.11	#DIV/0!
DR_1289	DNA helicase RecQ	20.1658	119.33	2.564974242	19.8863	82.3588	2.050147933
DR_1290	extracellular solute-binding protein	44.7721	172.176	1.943212163	37.7053	60.8722	0.691016179
DR_1291	D-3-phosphoglycerate dehydrogenase	120.656	35.6928	-1.757194674	96.5884	23.8551	-2.017552202
DR_1292	molybdenum cofactor biosynthesis protein B	37.5788	77.6411	1.04690156	46.2132	28.5314	-0.695754451
DR_1293	hypothetical protein	19.3693	55.8177	1.526950862	45.3785	19.314	-1.232361938
DR_1294	30S ribosomal protein S16	442.971	4831.95	3.447321368	937.224	2115.36	1.174437404
DR_1295	PecM-like protein	3.53342	12.6395	1.838802243	13.8444	10.1846	-0.442913211
DR_1296	transposase	138.299	222.623	0.686811926	72.0835	167.498	1.216402902
DR_1297	hypothetical protein	2.36286	31.4984	3.73667249	2.67171	18.3534	2.780212025
DR_1298	hypothetical protein	114.714	486.469	2.0843064	196.406	166.642	-0.237086944
DR_1299	hypothetical protein	25.4548	147.013	2.529934099	129.738	85.0934	-0.608481961
DR_1300	cytochrome c-type biogenesis protein	74.5981	217.577	1.544315267	222.597	144.702	-0.621349287
DR_1301	hypothetical protein	40.2977	37.9942	-0.084918298	37.5365	28.8743	-0.378508164
DR_1302	spermidine/putrescine ABC transporter ATP-binding protein	11.8827	61.8771	2.380542899	17.0852	28.2224	0.724093542
DR_1303	spermidine/putrescine ABC transporter permease	12.0129	45.0404	1.90663517	11.5533	33.9292	1.554222422
DR_1304	spermidine/putrescine ABC transporter permease	9.94508	41.7756	2.070605668	21.201	30.7372	0.535853434
DR_1305	spermidine/putrescine ABC transporter periplasmic spermidine/putrescine-binding protein	8.85345	43.399	2.293350143	16.0296	20.6991	0.368829615
DR_1306	hypothetical protein	135.278	126.962	-0.091530476	459.437	62.9767	-2.86697698
DR_1307	major facilitator family protein	8.09596	27.6092	1.769875018	15.8501	19.0539	0.26559438
DR_1308	protease	50.4311	199.136	1.981368458	82.636	64.1294	-0.365784513
DR_1309	30S ribosomal protein S20	2022.41	7557.12	1.901761029	4595.51	6607.14	0.523800937
DR_1310	recombination regulator RecX	27.804	28.922	0.05687487	44.3183	20.0456	-1.144616942
DR_1311	methionine aminopeptidase	336.707	352.725	0.067050118	516.094	139.281	-1.889635392
DR_1312	hypothetical protein	2.04653	16.3878	3.001370471	16.7265	5.59571	-1.579742493
DR_1313	L-allo-threonine aldolase	24.2011	32.0222	0.403999805	34.959	14.0559	-1.314488085
DR_1314	hypothetical protein	20574.2	5045.24	-2.02784153	3885.34	1903.33	-1.029515134
DR_1315	hypothetical protein	573.459	426.237	-0.42803451	113.131	229.334	1.019455949
DR_1316	propionyl-CoA carboxylase subunit alpha	26.6744	50.5051	0.920973258	44.6511	31.072	-0.523080611
DR_1317	hypothetical protein	3767.05	374.532	-3.330274289	993.517	274.072	-1.857989708
DR_1318	acyl-CoA dehydrogenase	104.274	160.14	0.618954235	67.8271	62.1323	-0.12651835
DR_1319	hypothetical protein	42.1162	43.1249	0.034145839	48.6777	21.7268	-1.163785298
DR_1320	hypothetical protein	227.704	204.586	-0.154452211	189.934	95.3932	-0.993539851
DR_1321	signal peptidase I	7.10656	84.2132	3.566823103	4.61554	48.762	3.401185948
DR_1322	hypothetical protein	5.06708	41.3865	3.029933735	23.2175	26.9769	0.216511938
DR_1323	tRNA pseudouridine synthase B	7.43557	20.2634	1.446361018	4.50555	9.28378	1.043009106
DR_1324	transport protein	2.3529	22.182	3.236877538	6.08294	14.8401	1.286660134

DR_1325	endopeptidase-like protein	11.4606	26.1385	1.189493776	6.48694	23.1775	1.837114961
DR_1326	carboxymethylenebutenolidase-like protein	4.52624	20.44	2.175010207	3.84733	9.89997	1.363566573
DR_1327	multidrug-efflux transporter	16.9276	21.8292	0.366881817	38.3838	16.6039	-1.208975397
DR_1328	hypothetical protein	13.3637	24.1357	0.852849168	20.8247	29.1725	0.486313314
DR_1329	hypothetical protein	21.3979	37.1751	0.796867406	26.17	22.402	-0.224286386
DR_1330	antibiotic biosynthesis protein	28.1489	25.2371	-0.157532406	19.8244	10.9416	-0.857453482
DR_1331	hypothetical protein	2440.06	1764.14	-0.467951568	906.688	643.416	-0.494854379
DR_1332	hypothetical protein	8.14385	10.678	0.39085856	14.729	7.3481	-1.003216319
DR_1333	glycosyl hydrolase family protein	4.37532	12.1026	1.467856574	3.11311	8.89445	1.514548843
DR_1334	isoleucyl-tRNA synthetase	85.7119	106.836	0.317830444	90.2296	84.9122	-0.087628938
DR_1335		14.862	72.8921	2.29413419	8.25647	39.2526	2.249191214
DR_1336	transport protein	66.0372	57.5092	-0.199486182	66.4369	67.2267	0.017049575
DR_1337	putative transaldolase	144.124	179.825	0.319283006	102.624	65.2672	-0.652938111
DR_1338	transcription termination factor Rho	149.431	165.252	0.145188261	92.8415	78.8552	-0.235563937
DR_1339	triosephosphate isomerase	115.031	101.311	-0.183231884	14.4665	126.262	3.125632683
DR_1340	hypothetical protein	21.7902	23.0384	0.080361088	3.47906	12.3005	1.821947495
DR_1341	hypothetical protein	23.5603	42.2693	0.843252311	10.2103	26.5386	1.378067009
DR_1342	phosphoglycerate kinase	40.3726	51.0484	0.338489244	3.84431	28.1692	2.873322009
DR_1343	glyceraldehyde 3-phosphate dehydrogenase	751.172	624.084	-0.267403062	265.324	279.463	0.074902106
DR_1344	hydrolase	17.8186	17.785	-0.002723015	15.0033	11.4597	-0.388710582
DR_1345	hypothetical protein	18.5096	20.6576	0.158398933	11.1004	8.71867	-0.348431685
DR_1346	peptidase	20.8418	16.2298	-0.36083466	8.66293	6.24943	-0.47113045
DR_1347	aspartyl-tRNA synthetase	52.3216	132.347	1.338846928	60.7621	61.4053	0.015191451
DR_1348	hypothetical protein	1160.38	321.202	-1.853044554	819.6	249.009	-1.718722097
DR_1349	histidyl-tRNA synthetase	33.9303	51.5032	0.602087887	29.4333	27.1973	-0.113985868
DR_1350	class V aminotransferase	14.7527	68.0295	2.205181469	47.6581	32.679	-0.5443576
DR_1351	alpha/beta fold family hydrolase	1.27749	18.9215	3.88864256	4.36167	10.801	1.308212363
DR_1352	dihydrolipoamide acetyltransferase-like protein	11.9823	39.9692	1.737983837	15.4877	19.8817	0.360318208
DR_1353	acid tolerance protein-like protein	6.34242	45.0599	2.82873879	18.2726	20.4823	0.164695799
DR_1354	excinuclease ABC subunit C	42.5693	93.3052	1.132144119	41.823	44.5689	0.091740803
DR_1355	phosphatidylglycerophosphatase B-like protein	46.202	76.0131	0.718292768	95.6019	40.769	-1.229566721
DR_1356	ABC transporter ATP-binding protein	48.8675	124.865	1.353421937	77.6909	78.0601	0.006839687
DR_1357	ABC transporter permease	18.6404	38.7086	1.054221311	18.1651	27.5495	0.600856827
DR_1358	outer membrane protein	32.8274	36.0942	0.136866538	10.2035	29.5106	1.532169144
DR_1359	outer membrane protein	25.864	41.6472	0.687274092	22.6745	36.5765	0.689846292
DR_1360	hypothetical protein	9.63497	97.3043	3.336151481	29.2726	39.1098	0.417979266
DR_1361	endopeptidase-like protein	4.96944	24.8475	2.321945514	9.75821	10.4475	0.098469323
DR_1362	streptomycin biosynthesis protein StrI-like protein	9.54104	35.4363	1.893009538	6.55429	23.4832	1.841117602
DR_1363	hypothetical protein	42.2689	144.019	1.768590681	58.7776	62.5981	0.090852416
DR_1364	hypothetical protein	19.8814	224.061	3.494400299	22.7344	67.9467	1.579526555
DR_1365	aspartate kinase	68.0205	52.0164	-0.387003056	49.6664	27.2622	-0.86536819

DR_1366	glutamine amidotransferase subunit PdxT	32.0857	9.19436	-1.803109398	92.0353	5.28762	-4.121496906
DR_1367	pyridoxal biosynthesis lyase PdxS	64.7782	11.0962	-2.545442684	146.558	10.6515	-3.782343203
DR_1368	hypothetical protein	6.41583	47.8637	2.899224105	19.2236	26.4216	0.458839299
DR_1369	minicell-associated protein DivIVA	8.63321	53.4669	2.630677045	8.35202	29.5324	1.822101533
DR_1370	hypothetical protein	862.267	346.31	-1.31607062	456.924	124.958	-1.870510954
DR_1371	hypothetical protein	23.7116	23.8486	0.008311562	29.1613	14.6357	-0.994563287
DR_1372	hypothetical protein	31.3792	37.6357	0.262293233	64.6856	15.0718	-2.101592856
DR_1373	metal binding protein	4.37341	32.8779	2.910287643	10.3578	25.7306	1.312767492
DR_1374	DNA topoisomerase I	28.4736	35.2424	0.307687266	33.3195	16.2546	-1.035518697
DR_1375	glycosyl hydrolase family protein	17.1638	61.7883	1.847964685	9.41414	35.7168	1.923701617
DR_1376	hypoxanthine-guanine phosphoribosyltransferase	23.6297	189.7	3.005046461	43.2523	57.9173	0.421217496
DR_1377	amidase	16.1808	25.0741	0.63191498	18.8386	17.8881	-0.074691596
DR_1378	methionine sulfoxide reductase B	754.37	396.208	-0.929014293	862.661	187.153	-2.204575556
DR_1379	TetR family transcriptional regulator	1.93802	74.0309	5.255472203	1.68618	30.0294	4.154545192
DR_1380	hypothetical protein	22.8797	22.6746	-0.012991035	63.4885	14.9631	-2.085086194
DR_1381	transposase	26.0315	37.6272	0.53151749	14.8049	22.726	0.618269032
DR_1382	transposase	57.3185	92.1097	0.684352238	90.3893	101.267	0.163940212
DR_1383	hypothetical protein	149.515	283.999	0.925595621	485.403	130.089	-1.899684048
DR_1384	TetR family transcriptional regulator	9.76521	80.4507	3.042381999	12.9172	43.476	1.750925834
DR_1385	hypothetical protein	127.792	87.0485	-0.553906181	111.611	57.7831	-0.949759711
DR_1386	GTP-dependent nucleic acid-binding protein EngD	52.9677	217.274	2.036330776	84.6007	99.0562	0.227577677
DR_1387	N-acetylmuramoyl-L-alanine amidase	4.27878	46.092	3.429244962	10.1039	37.0156	1.873221148
DR_1388	hypothetical protein	127.174	90.2022	-0.495569224	73.1076	39.0069	-0.906292044
DR_1389	competence protein ComF	22.5608	38.4756	0.770125598	44.4421	22.8214	-0.961539691
DR_1390	hypothetical protein	23.0936	61.5098	1.413323196	25.0882	22.1074	-0.182479602
DR_1391	hypothetical protein	49.6036	34.6311	-0.518376615	64	44.5901	-0.52134847
DR_1392	hypothetical protein	17.2508	43.3904	1.330712618	14.4386	15.527	0.104848249
DR_1393	phosphoglycerate mutase	4.01201	44.924	3.485089283	3.75538	25.1947	2.746089474
DR_1394	phosphoribosylaminoimidazole synthetase	6.54766	49.7867	2.926709079	13.7283	19.6866	0.520060985
DR_1395	geranylgeranyl diphosphate synthase	9.09419	16.5096	0.860288116	11.6502	9.80873	-0.248216463
DR_1396	hypothetical protein	6.75851	27.6849	2.034322185	9.89119	14.3134	0.533150404
DR_1397	hypothetical protein	56.4098	34.3844	-0.714191651	33.028	23.8258	-0.471164954
DR_1398	hypothetical protein	14.6906	16.6466	0.180334223	14.9811	10.7512	-0.478645863
DR_1399	oxidoreductase	8.49941	44.9171	2.401830183	7.81961	16.386	1.067295159
DR_1400	2-phosphosulfolactate phosphatase	2.8725	67.0591	4.545054323	2.46308	19.3852	2.976420228
DR_1401	ribulose-phosphate 3-epimerase	13.4768	105.786	2.972598829	27.0944	48.4466	0.838400721
DR_1402	TetR family transcriptional regulator	7.74677	43.9307	2.503562676	40.1862	17.3647	-1.210542677
DR_1403	hydrolase-like protein	1.80798	10.6944	2.56440492	2.05338	10.5569	2.362113711
DR_1404	hypothetical protein	43.2731	100.809	1.220082064	43.246	85.0934	0.97648054
DR_1405	hypothetical protein	31.0568	93.984	1.597505984	30.2317	30.1888	-0.002048696
DR_1406	hypothetical protein	45.3378	101.083	1.156754096	22.291	44.9809	1.012851189

DR_1407	hypothetical protein	58.4171	121.661	1.058404122	66.9449	58.0768	-0.205012188
DR_1408	hypothetical protein	12.7202	26.5149	1.059681953	30.2929	7.2434	-2.064240745
DR_1409	hypothetical protein	2.06917	20.1338	3.282495403	3.48732	10.813	1.632576187
DR_1410	carboxynorspermidine decarboxylase	40.765	106.386	1.38390539	6.95041	57.6679	3.052598498
DR_1411	sodium/sulfate symporter family protein	14.4537	45.9334	1.668104721	16.6656	27.4042	0.717523761
DR_1412	hypothetical protein	0	0	#DIV/0!	0	432.866	#DIV/0!
DR_1413	acetyl-lysine deacetylase	13.6431	46.3698	1.765014012	8.1712	26.5784	1.701634389
DR_1414	hypothetical protein	6.35475	29.3402	2.20697143	3.38381	16.1132	2.251522566
DR_1415	ornithine aminotransferase	16.3203	43.3853	1.410538728	21.0607	19.3093	-0.125257524
DR_1416	hypothetical protein	14.4534	40.3804	1.482246291	10.2846	20.3615	0.985358162
DR_1417	penicillin-binding protein 1B McrB	57.8016	198.183	1.777651881	71.784	105.955	0.561717448
DR_1418	response regulator	85.9404	541.079	2.654430852	140.738	279.729	0.991017912
DR_1419	antibiotic resistance protein	4.21334	20.1715	2.259282125	6.5046	13.6066	1.064774367
DR_1420	acetylglutamate/acetylaminoadipate kinase	5.6578	13.3646	1.240103574	4.80916	10.6071	1.141173444
DR_1421	hypothetical protein	8.95164	29.874	1.738666498	23.2066	13.9398	-0.735325306
DR_1422	hypothetical protein	395.356	1216.37	1.621357915	451.896	442.474	-0.030398103
DR_1423	hypothetical protein	26.3429	103.604	1.975593624	118.94	39.6406	-1.585183276
DR_1424	chaperone protein DnaJ	27.1331	175.505	2.69338634	28.7472	89.6059	1.640172285
DR_1425	hypothetical protein	15.2525	28.2373	0.888556417	37.7009	17.039	-1.145758296
DR_1426	indole-3-glycerol-phosphate synthase	32.447	42.5804	0.392104408	35.4757	20.9075	-0.762810589
DR_1427	signal peptidase I	24.9746	185.924	2.896179536	72.4196	90.2894	0.318176417
DR_1428	acetyl-CoA acetyltransferase	17.9642	48.3261	1.427677882	23.0061	39.5738	0.782529166
DR_1429	hypothetical protein	19.1976	30.0144	0.644728865	0	31.8686	#DIV/0!
DR_1430	metallo-beta-lactamase-like protein	27.7778	29.5692	0.090162869	15.5645	14.1458	-0.137885463
DR_1431	phosphoribosylamine--glycine ligase	7.25263	33.7575	2.21863191	7.92507	19.2633	1.281359289
DR_1432	hypothetical protein	366.493	240.785	-0.606040123	346.544	118.151	-1.5524067
DR_1433	methionyl-tRNA synthetase	141.063	218.923	0.634083905	110.828	87.7941	-0.33612652
DR_1434	hypothetical protein	14.0963	30.0212	1.090665112	14.9959	16.5277	0.140317863
DR_1435	hypothetical protein	5.44673	16.0012	1.554717845	14.3968	13.5204	-0.090610343
DR_1436	ABC transporter permease	56.3852	176.451	1.645879168	80.9778	84.8423	0.067257283
DR_1437	ABC transporter permease	4.95088	13.0297	1.396046981	5.0296	10.806	1.103317014
DR_1438	ABC transporter	18.3985	68.8709	1.90430638	41.8709	36.2581	-0.207644602
DR_1439	hypothetical protein	241.93	394.435	0.705197896	335.617	198.504	-0.757647715
DR_1441	hypothetical protein	5.86651	18.2217	1.635083161	2.51738	16.5802	2.719466496
DR_1442	hypothetical protein	6.43987	26.9015	2.062583148	9.40943	14.2014	0.593853924
DR_1443	hypothetical protein	22.1487	32.1213	0.536308259	22.1162	18.6252	-0.247847606
DR_1444	ATP phosphoribosyltransferase regulatory subunit	8.10971	30.8764	1.928782323	12.3469	14.643	0.246062295
DR_1445	ATP phosphoribosyltransferase catalytic subunit	10.9411	78.5556	2.843956333	4.19194	30.6106	2.868341351
DR_1446	hypothetical protein	138.5	191.83	0.469942383	347.238	69.2009	-2.327062132
DR_1447	hypothetical protein	59.4921	177.961	1.580791101	82.217	99.1367	0.269982505
DR_1448	hypothetical protein	87.2444	211.603	1.278225645	94.0712	124.532	0.404691495

DR_1449	hypothetical protein	9.05559	29.0069	1.679515576	17.6259	17.8328	0.016836319
DR_1450	hypothetical protein	14.6906	23.2043	0.659498856	9.98743	10.7512	0.106312304
DR_1451	5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase	33.0166	47.9817	0.539292712	14.9396	22.7819	0.608746551
DR_1452	class I aminotransferase	97.5157	48.4649	-1.008694237	104.156	24.8347	-2.068316725
DR_1454	hypothetical protein	93.9704	40.8733	-1.201047662	378.471	19.1368	-4.305761247
DR_1455	hypothetical protein	82.3075	18.5001	-2.153490828	118.975	10.7315	-3.470734806
DR_1456	ribose-phosphate pyrophosphokinase	16.5378	92.4367	2.482698429	24.6948	33.6609	0.446866466
DR_1457	hypothetical protein	368.398	170.108	-1.114814238	1894.01	94.2577	-4.328689659
DR_1459	serine protease	248.862	68.9237	-1.852273898	266.502	49.1216	-2.439716902
DR_1460	hypothetical protein	5.63018	20.0185	1.830080924	4.049	16.9355	2.064413033
DR_1461	hypothetical protein	3.51631	33.7135	3.26119224	2.90706	20.9981	2.852626039
DR_1462	hypothetical protein	2.88071	53.6253	4.218417476	2.96074	32.12	3.439442183
DR_1463	hypothetical protein	15.1323	69.3018	2.195261541	100.472	41.9958	-1.258476544
DR_1464	hypothetical protein	14.2246	30.1084	1.081777959	30.6103	16.5563	-0.886636889
DR_1465	hypothetical protein	21.6203	35.1285	0.700255432	6.8458	20.5187	1.583648279
DR_1466	hypothetical protein	26.1649	32.1978	0.299329371	58.2935	21.8938	-1.412812647
DR_1467	short chain dehydrogenase	101.621	89.5194	-0.182926294	44.4358	50.5392	0.185680366
DR_1468	SsrA-binding protein	34.9407	232.042	2.731405543	28.1545	78.1179	1.472287636
DR_1469	hypothetical protein	17.5725	119.562	2.766367575	23.7871	43.8102	0.881087404
DR_1470	hypothetical protein	29.3913	104.705	1.83286926	71.5731	41.9224	-0.771696156
DR_1472	glycosyl hydrolase family protein	14.4687	44.7976	1.63048614	15.9914	22.2913	0.479184507
DR_1473	phage shock protein A	1521.34	2046.23	0.427625703	513.862	660.308	0.361758156
DR_1474	hypothetical protein	34.8395	58.5043	0.747818746	44.7695	24.0684	-0.895375967
DR_1475	1-deoxy-D-xylulose-5-phosphate synthase	57.1773	61.1797	0.097610537	39.7566	27.2773	-0.543493534
DR_1476	hypothetical protein	2.22346	6.22747	1.485839716	3.81816	8.38067	1.134188026
DR_1477	DNA repair protein	6.30234	167.619	4.733154294	9.86243	69.7723	2.822639331
DR_1478	hypothetical protein	24.1161	97.3455	2.013117672	8.18384	67.4193	3.042311803
DR_1479	hypothetical protein	31.9858	58.5909	0.873245044	41.5405	27.3336	-0.603843097
DR_1480	AlgP-like protein	2915.39	431.1	-2.757594422	508.163	381.791	-0.41250824
DR_1481	hypothetical protein	187.303	302.933	0.693624739	462.717	209.803	-1.141094796
DR_1482	2-isopropylmalate synthase	790.297	75.3345	-3.391012317	158.786	62.7849	-1.338594185
DR_1483	hypothetical protein	2320.76	454.343	-2.352743578	777.448	331.203	-1.231030442
DR_1484	hypothetical protein	85.9909	66.9932	-0.360169329	151.622	38.7755	-1.967261811
DR_1485	lipase	4.01808	7.48126	0.896774982	1.70152	5.01253	1.558714857
DR_1486	hypothetical protein	55.5578	42.3225	-0.392564622	64.4994	41.2199	-0.645944735
DR_1487	enoyl-CoA hydratase/3,2-trans-enoyl-CoA isomerase/3-hydroxyacyl-CoA dehydrogenase	16.467	26.6141	0.692613035	17.8246	14.9175	-0.256863925
DR_1488	membrane-bound protein LytR	29.1864	47.3988	0.699554262	36.1919	27.7332	-0.384052757
DR_1490	hypothetical protein	13.7777	112.995	3.03585196	23.7543	45.4057	0.934684724
DR_1491	carboxyl-terminal protease	89.5251	33.6782	-1.410477192	30.4161	34.3904	0.177170716
DR_1492	NADH dehydrogenase I subunit N	3.58299	5.99329	0.742184167	4.17663	5.60405	0.424130484
DR_1493	NADH dehydrogenase I subunit M	1.46113	4.01751	1.459217071	1.08897	8.05861	2.887566805

DR_1494	NADH dehydrogenase I subunit L	3.94172	9.92109	1.331673336	4.64152	12.6257	1.443694137
DR_1495	NADH dehydrogenase I subunit K	0	2.78683	#DIV/0!	0	6.48885	#DIV/0!
DR_1496	NADH dehydrogenase I subunit J	7.89376	2.7805	-1.505368319	19.7348	6.63852	-1.571808352
DR_1497	NADH dehydrogenase I subunit I	0	1.50237	#DIV/0!	0	2.012	#DIV/0!
DR_1498	NADH dehydrogenase I subunit H	0.792207	2.45824	1.63367642	0.666913	4.18696	2.650332659
DR_1499	NADH dehydrogenase I subunit G	1.62412	2.84562	0.809084788	1.01435	4.51853	2.155297963
DR_1500	NADH dehydrogenase I subunit F	0.87306	3.00394	1.782703287	1.17285	6.07157	2.372051106
DR_1501	NADH dehydrogenase I subunit E	1.29919	3.35429	1.368394991	0	4.36899	#DIV/0!
DR_1502	hypothetical protein	2.27129	5.26087	1.211789478	0	7.93898	#DIV/0!
DR_1503	NADH dehydrogenase I subunit D	2.15396	3.64499	0.758923398	1.31843	7.79129	2.563041239
DR_1504	NADH dehydrogenase I subunit C	0.391498	2.19714	2.488549958	1.34783	8.37238	2.63499925
DR_1505	NADH dehydrogenase subunit B	1.55105	2.20082	0.504795961	0	8.51777	#DIV/0!
DR_1506	NADH dehydrogenase I subunit A	3.67796	10.9661	1.57607284	8.66293	10.9365	0.336224142
DR_1507	hypothetical protein	6.93167	32.0441	2.208783872	18.4153	21.6961	0.236530833
DR_1508	1-deoxy-D-xylulose 5-phosphate reductoisomerase	8.342	30.2697	1.859409159	12.0396	17.2904	0.522183784
DR_1509	phosphatidate cytidyltransferase	9.3579	327.787	5.130430016	22.8935	196.385	3.100674793
DR_1510	ribosome recycling factor	34.6406	434.845	3.649965422	21.3368	347.817	4.02691272
DR_1511	uridylate kinase	13.3	220.648	4.05224852	4.79683	153.282	4.997963169
DR_1512	elongation factor Ts	285.838	3316.6	3.536435396	177.738	1341.72	2.916259566
DR_1513	30S ribosomal protein S2	591.158	4547.83	2.943562648	209.36	2585.03	3.626123289
DR_1514	2-phosphoglycerate kinase	2.53113	23.4439	3.211359077	4.2341	16.5563	1.967253047
DR_1515	hypothetical protein	171.456	292.934	0.772737261	180.33	136.889	-0.397632905
DR_1516	acetolactate synthase large subunit	118.173	39.0528	-1.597402553	19.972	25.677	0.362497842
DR_1518	hypothetical protein	395.675	90.1985	-2.133140567	50.6617	99.2579	0.970286443
DR_1519	ketol-acid reductoisomerase	207.947	118.354	-0.813107406	65.8981	75.656	0.199217632
DR_1520	16S rRNA (uracil(1498)-N(3))-methyltransferase	9.59531	18.8861	0.976923492	3.6552	14.2752	1.965488706
DR_1521	ribosomal protein L11 methyltransferase	43.2391	36.2956	-0.252541829	34.5012	29.9382	-0.204659058
DR_1522	pyrroline-5-carboxylate reductase	16.288	26.4901	0.701643823	11.9946	16.0014	0.415813088
DR_1524	cephalosporin acylase	0.852354	9.55281	3.48640053	0.475352	5.81054	3.611604111
DR_1525	carbohydrate kinase	25.7289	83.5708	1.699609168	35.6228	43.5892	0.291169807
DR_1526	16S rRNA (adenine(1518)-N(6)/adenine(1519)-N(6))-dimethyltransferase	42.931	111.216	1.373272672	70.5971	40.6634	-0.795878073
DR_1527	hypothetical protein	10.4644	27.5358	1.39581893	14.5427	12.4444	-0.224798472
DR_1528	hypothetical protein	3.68342	27.7141	2.911502343	7.92271	10.4003	0.392559244
DR_1529	hypothetical protein	7.42129	35.1495	2.243762278	11.3215	19.2633	0.766789757
DR_1530	hypothetical protein	60.4082	146.032	1.273468238	66.0226	77.5297	0.231789129
DR_1531	hypothetical protein	63.6884	122.267	0.940932538	194.29	46.1522	-2.073740323
DR_1532	transcription-repair coupling factor	14.7342	71.6821	2.282444172	18.509	33.7339	0.865972167
DR_1533	hypothetical protein	3.8505	23.1048	2.5850749	7.47431	12.0258	0.686120564
DR_1534	acetyltransferase	11.2902	22.2018	0.975605604	23.2962	15.6052	-0.578067799
DR_1535	hypothetical protein	27.5098	34.8596	0.341610364	36.5475	16.9892	-1.105154804
DR_1536	serine protease	11.9255	42.2196	1.823863155	21.5438	17.6197	-0.290083381

DR_1537	lipase	16.5156	79.1752	2.261219224	12.0495	38.7316	1.684537818
DR_1538	osmotically inducible protein C	319.223	125.845	-1.342916704	147.787	43.6396	-1.759809586
DR_1539	hypothetical protein	6624.24	1615.61	-2.035675963	2496.07	1034.24	-1.271087386
DR_1540	isocitrate dehydrogenase	759.626	1287.68	0.761412924	671.556	379.098	-0.824936863
DR_1541	hypothetical protein	5.94833	27.4318	2.205292699	6.13824	23.8853	1.960226037
DR_1542	propionyl-CoA carboxylase subunit beta	7.86865	28.7491	1.869328749	29.9399	24.5412	-0.286863608
DR_1543	hypothetical protein	8.65913	30.0591	1.795507827	38.5889	35.2389	-0.131017029
DR_1544	acyl-CoA dehydrogenase	21.0732	45.5803	1.113001014	71.4768	40.4269	-0.822159467
DR_1545	hypothetical protein	79.7506	132.929	0.737088601	18.4429	74.0514	2.005461485
DR_1546	Cu/Zn family superoxide dismutase	51.8323	63.6936	0.297297003	32.2563	35.762	0.14884646
DR_1547	hypothetical protein	0	6.83452	#DIV/0!	11.7658	15.3281	0.38157946
DR_1548	hypothetical protein	0.894047	181.847	7.668158734	3.09789	88.5781	4.837592229
DR_1549	hypothetical protein	8.17894	51.0786	2.642733198	7.37487	36.3401	2.300872866
DR_1550	ftsE protein	17.823	69.5343	1.963984614	28.4684	33.4396	0.232196178
DR_1551	carboxyl-terminal protease	380.919	443.464	0.219332742	226.958	167.64	-0.437058916
DR_1552	hypothetical protein	263.679	335.991	0.349639913	142.689	412.784	1.532512931
DR_1553	peptide chain release factor 3	101.658	262.918	1.370889163	62.3571	91.6961	0.55630654
DR_1555	hypothetical protein	3.80874	55.9039	3.875563221	4.48503	21.5411	2.263902383
DR_1556	two-component sensor	23.1086	22.764	-0.021675774	15.9817	14.3134	-0.159054468
DR_1557	hypothetical protein	30.4419	20.8966	-0.54279018	11.8765	12.2568	0.045472633
DR_1558	DNA-binding response regulator	5.83951	12.8332	1.135961735	2.67985	11.2623	2.071277331
DR_1559	hypothetical protein	4.42234	15.3035	1.790979791	1.71145	10.5703	2.626725273
DR_1560	hypothetical protein	6.13827	29.9576	2.287018038	6.93524	12.7659	0.880277538
DR_1561	UDP-N-acetylglucosamine 2-epimerase	3.08534	41.7276	3.757500559	8.31876	14.5866	0.810203243
DR_1562	undecaprenyl-phosphate alpha-N-acetylglucosaminyltransferase	16.0124	76.0676	2.248092527	47.6024	34.0864	-0.481838074
DR_1563	uracil phosphoribosyltransferase	75.6677	102.895	0.44342338	44.0769	51.4395	0.222853859
DR_1564	hypothetical protein	7.20063	56.9919	2.984561848	6.13258	30.0297	2.291824008
DR_1565	hypothetical protein	18.7668	142.14	2.921058028	64.4177	45.8839	-0.489469129
DR_1566	hypothetical protein	12.3966	45.7986	1.885359009	35.4385	24.6477	-0.523864513
DR_1567	peptide ABC transporter ATP-binding protein	118.228	554.905	2.230669052	142.618	223.868	0.650492244
DR_1568	peptide ABC transporter ATP-binding protein	127.389	633.161	2.313331688	180.53	311.867	0.788692303
DR_1569	peptide ABC transporter permease	56.886	441.28	2.955548817	153.464	256.435	0.74069292
DR_1570	peptide ABC transporter permease	79.2494	534.101	2.752640668	138.614	361.402	1.382531513
DR_1571	ABC transporter	921.144	3685.01	2.000169923	958.914	1185.27	0.305742399
DR_1573	CTP synthase	69.4646	286.978	2.046590287	28.9299	199.138	2.783135304
DR_1574	hypothetical protein	14.5128	44.4275	1.614127071	33.6142	20.5037	-0.71318654
DR_1575	hypothetical protein	4.53702	40.2945	3.150766007	8.54065	29.6117	1.79374954
DR_1576	hypothetical protein	2.3005	31.9028	3.793663688	0	27.1699	#DIV/0!
DR_1577	S-adenosylmethionine:tRNA ribosyltransferase-isomerase	31.6871	114.48	1.853128042	49.7701	63.843	0.35924916
DR_1578	hypothetical protein	71.7923	146.194	1.025983079	150.569	55.3043	-1.444961209
DR_1579	hypothetical protein	92.2573	63.4667	-0.539663241	79.2979	38.4655	-1.043717599

DR_1580	hypothetical protein	4.61159	42.7256	3.211764593	3.37745	19.1341	2.502139726
DR_1581	ABC transporter ATP-binding protein	7.88188	43.9307	2.478617798	8.6198	31.7749	1.882161284
DR_1582	hypothetical protein	7.24545	39.5076	2.446983008	3.22506	29.9806	3.21663135
DR_1583	hypothetical protein	6.44683	39.5533	2.61713622	4.40373	39.9788	3.182437246
DR_1584	hypothetical protein	1.31927	22.2771	4.077749677	0	21.072	#DIV/0!
DR_1585	ribonuclease PH	5.22364	57.675	3.46481872	5.96472	27.0909	2.183282002
DR_1586	glutamate racemase	15.284	64.0748	2.067734908	13.7997	29.7451	1.108015125
DR_1587	hypothetical protein	22.5065	15.0965	-0.576127609	35.4359	7.01088	-2.337544244
DR_1588	class I aminotransferase	34.0093	23.4263	-0.537800202	20.623	12.7019	-0.699209898
DR_1589	fructose-bisphosphate aldolase	200.676	242.885	0.275405309	162.319	100.979	-0.684776587
DR_1590	hypothetical protein	41.7725	140.133	1.746171343	83.5691	46.4616	-0.846930762
DR_1591	hypothetical protein	3.23625	22.2705	2.782738984	3.66224	15.493	2.080818284
DR_1592	transposase	57.223	92.1976	0.688134061	90.2657	101.507	0.169329432
DR_1593	transposase	23.8897	32.3848	0.438928097	12.3464	20.9073	0.759916324
DR_1594	hypothetical protein	32.7552	18.8971	-0.793559106	24.988	18.9372	-0.400012401
DR_1595	6-phosphogluconate dehydrogenase-like protein	119.198	73.5247	-0.697059132	80.8765	37.6347	-1.103657093
DR_1596	glucose-6-phosphate 1-dehydrogenase	127.162	46.4604	-1.452594132	35.828	24.3493	-0.557207213
DR_1597	glucose 6-phosphate dehydrogenase assembly protein OpcA	19.6162	27.7494	0.500410984	25.7262	11.1004	-1.212626709
DR_1598	protease	34.6663	27.5239	-0.332848956	38.7237	19.318	-1.003271068
DR_1599	hypothetical protein	77.3524	40.3351	-0.939410222	56.072	26.4405	-1.08453107
DR_1600	hypothetical protein	81.0933	38.1919	-1.086316029	54.4237	20.3748	-1.417449144
DR_1601	nodulin 21-like protein	63.065	73.1435	0.213890107	49.089	35.0027	-0.487933566
DR_1602	hypothetical protein	21.7507	21.7367	-0.0009289	12.3285	26.0454	1.079031315
DR_1603	hypothetical protein	23.6957	15.9143	-0.57430158	5.98161	18.2013	1.605435741
DR_1604	oligosaccharide deacetylase	22.8167	26.1275	0.195478939	15.793	17.7359	0.167387293
DR_1606	oligosaccharide deacetylase	19.5749	20.3997	0.059542999	21.725	17.8468	-0.28369076
DR_1607	hypothetical protein	38.5533	43.8158	0.184596846	53.6041	20.1327	-1.412802687
DR_1608	hypothetical protein	107.715	98.2054	-0.133344907	102.331	44.8318	-1.190648929
DR_1609	2-hydroxyhepta-2,4-diene-1,7-dioate isomerase/5-carboxymethyl-2-oxo-hex-3-ene-1,7-dioate decarboxylase-like protein	21.5073	37.9081	0.817679727	52.5838	17.9832	-1.547968641
DR_1610	3-isopropylmalate dehydratase large subunit	39.0487	31.6907	-0.301214992	57.7806	20.6927	-1.481463284
DR_1611	hypothetical protein	137.273	226.082	0.719798241	171.641	97.9941	-0.808627416
DR_1612	hypothetical protein	215.645	183.293	-0.234506576	154.23	103.554	-0.574700136
DR_1613	ArsR family transcriptional regulator	408.706	92.3816	-2.145385985	1824.24	58.3449	-4.966545181
DR_1614	3-isopropylmalate dehydratase small subunit	44.7645	62.8505	0.48956915	22.3821	27.0392	0.272707064
DR_1615	hypothetical protein	14.3764	53.4055	1.893285871	9.84446	33.7422	1.777170064
DR_1616	hypothetical protein	44.0873	69.4863	0.656365436	53.4189	44.9578	-0.248778829
DR_1617	xanthine phosphoribosyltransferase	30.8462	128.122	2.054353547	47.8396	36.5946	-0.386574551
DR_1618	transposase	84.0088	106.753	0.345664249	90.5036	84.6961	-0.095679641
DR_1619	hypothetical protein	51.1957	116.763	1.189488637	93.693	48.1841	-0.959384107
DR_1620	ketoacyl reductase	42.4261	23.4025	-0.85828941	19.2096	17.5349	-0.131598275

DR_1621	Hit family protein	107.125	114.363	0.094325166	150.646	59.5115	-1.33992198
DR_1622	beta-phosphoglucosyltransferase-like protein	16.048	22.7173	0.501397867	15.0215	15.1168	0.009123892
DR_1623	hypothetical protein	394.315	107.357	-1.87693233	247.917	71.6461	-1.790897123
DR_1625	amidase	11.531	18.2982	0.666184104	5.11183	12.2237	1.257769278
DR_1626	branched-chain amino acid aminotransferase	73.7728	105.045	0.509846595	65.4787	36.9173	-0.826728636
DR_1627	oligoendopeptidase	3.98287	28.9929	2.863819349	6.23484	17.2603	1.469033097
DR_1629	c-di-GMP phosphodiesterase A	14.6499	31.1129	1.086622056	18.632	20.7585	0.155919654
DR_1630	hypothetical protein	3.61294	108.372	4.90667495	13.4709	85.6185	2.668076319
DR_1631	hypothetical protein	8.58983	24.7986	1.529557191	12.7833	14.9067	0.221700598
DR_1632	N-acetylmuramoyl-L-alanine amidase	14.2145	26.2265	0.883661936	10.8268	14.6669	0.437957076
DR_1633	GGDEF family protein	8.60778	40.8596	2.24696197	10.8153	20.2089	0.901917112
DR_1634	hypothetical protein	22.2621	54.9566	1.303703062	20.682	33.7276	0.705553958
DR_1635	ABC transporter ATP-binding protein	26.4462	38.2671	0.533044134	39.3247	20.1984	-0.961194744
DR_1636	hypothetical protein	7.37855	14.92	1.015838298	3.37745	10.7629	1.672060539
DR_1638	hypothetical protein	21.0859	23.1206	0.132900237	10.5048	9.53523	-0.139709051
DR_1639	hypothetical protein	198.809	65.8519	-1.594086097	395.997	46.085	-3.103120345
DR_1640	hypothetical protein	19.2034	43.7406	1.187611245	0	5.56255	#DIV/0!
DR_1641	hypothetical protein	30.1951	43.9788	0.542493789	39.646	19.5934	-1.016807549
DR_1642	hypothetical protein	10.1517	32.0031	1.656490319	0	8.36335	#DIV/0!
DR_1643	hypothetical protein	13.9318	63.5156	2.188729307	40.4771	24.4335	-0.728245393
DR_1644	hypothetical protein	74.3924	94.5199	0.345462861	183.654	50.9036	-1.851150723
DR_1645	UDP-N-acetyl-D-mannosaminuronic acid transferase	6.20604	42.3913	2.772023309	17.7091	14.7055	-0.268135056
DR_1646	nitrogen regulator	32.3631	42.8651	0.405453702	70.3765	19.2535	-1.869973037
DR_1648	amino acid ABC transporter ATP-binding protein	34.9699	56.9399	0.703326289	33.6424	24.2882	-0.470025053
DR_1649	immunogenic protein	41.0262	302.454	2.882098303	49.2267	103.654	1.074262857
DR_1650	hypothetical protein	29.4281	88.6608	1.591101981	57.0905	54.6032	-0.064265195
DR_1651	transposase	28.5037	40.2632	0.498312634	14.4627	22.9844	0.668318096
DR_1652	transposase	57.8265	91.8148	0.666995942	90.3355	101.635	0.170032354
DR_1653	hypothetical protein	3.69353	23.144	2.647566028	11.4084	15.1175	0.406123108
DR_1654	hypothetical protein	2087.15	1359.04	-0.618946369	3429.92	607.954	-2.496140854
DR_1655	ABC transporter periplasmic substrate-binding protein	183.322	969.963	2.403549785	197.295	378.099	0.938409639
DR_1656	Mg(2+) chelatase family protein	6.31555	22.9878	1.863888118	11.3097	15.2961	0.435603199
DR_1657	hypothetical protein	3.04419	14.903	2.291472466	4.75061	12.8405	1.434516702
DR_1658	hypothetical protein	2.34316	8.88446	1.922828621	7.23047	9.95415	0.461208698
DR_1659	oligopeptidase A	14.8872	54.1241	1.862198694	13.7656	28.2287	1.036095197
DR_1660	hypothetical protein	69.1109	15.802	-2.1288061	29.8997	13.6038	-1.136121308
DR_1661	stage V sporulation protein S-like protein	40.8269	62.8021	0.621292774	38.8339	60.6602	0.643433654
DR_1662	L-threonine 3-dehydrogenase	15.8805	94.6977	2.57607305	28.2359	35.796	0.342267767
DR_1663	hypothetical protein	378.331	558.885	0.562902461	477.832	127.7	-1.903744948
DR_1664	hypothetical protein	4.27102	6.70798	0.651297734	6.59857	11.9982	0.862592674
DR_1665	hypothetical protein	62.6653	108.542	0.792514699	145.288	52.2585	-1.475177929

DR_1666	potassium uptake protein KtrA	8.90392	42.8921	2.268199417	26.6422	16.0666	-0.72964856
DR_1667	potassium uptake protein KtrB	2.19265	13.5726	2.629949667	3.96254	10.888	1.458241568
DR_1668	potassium uptake protein KtrB	6.26152	42.8892	2.776029583	15.4768	24.4016	0.656868539
DR_1669	hypothetical protein	117.731	159.638	0.43930986	297.127	82.8266	-1.842913636
DR_1670	cysteinyl-tRNA synthetase	140.222	122.12	-0.199413223	45.9205	63.0744	0.457916227
DR_1671	hypothetical protein	56.5291	186.992	1.725910916	173.066	52.7899	-1.712988487
DR_1672	hypothetical protein	7.78209	22.3151	1.519790701	11.4545	12.1054	0.079736266
DR_1673	oxidoreductase	13.126	21.0203	0.679355921	14.7873	18.6496	0.334786032
DR_1674	isocitrate dehydrogenase	23.5082	78.685	1.742924558	18.8647	24.7784	0.393393875
DR_1675	hypothetical protein	17.3215	18.8488	0.121908809	8.13076	15.9729	0.974164153
DR_1676	hypothetical protein	2.95507	14.5396	2.298723369	8.20715	10.0644	0.294307941
DR_1677	hypothetical protein	16.3809	52.2882	1.674470783	40.0752	23.9012	-0.745626667
DR_1678	hypothetical protein	1.4279	10.8251	2.9224135	2.55258	4.57562	0.842011066
DR_1679	N-methyl-transferase-like protein	1.02922	11.5023	3.482299069	1.17454	4.73365	2.010857193
DR_1680	hypothetical protein	4.28473	37.1961	3.117875161	1.70788	25.4695	3.898492122
DR_1681	GidA-like protein	3.269	54.0373	4.047034309	3.35126	19.2535	2.522345206
DR_1682	hypothetical protein	7.79548	28.2971	1.859944444	8.32987	21.8793	1.393200696
DR_1683	transcriptional regulator	3.18595	10.9022	1.774823761	4.11638	8.01887	0.96202278
DR_1684	pseudouridine synthase	5.05924	9.991	0.981708405	9.42859	7.57447	-0.315897095
DR_1685	ParA family chromosome partitioning ATPase	2.66496	11.8963	2.158327151	9.23107	6.7258	-0.456792005
DR_1686	hypothetical protein	0	6.55514	#DIV/0!	8.36327	0	#NUM!
DR_1687	glutamyl-tRNA synthetase-like protein	3.91258	17.0811	2.12620873	4.74916	8.38138	0.819515443
DR_1688	hypothetical protein	17.0651	21.4844	0.332240619	21.3737	8.84894	-1.272260122
DR_1689	glucose-1-phosphate adenylyltransferase	68.6058	40.9549	-0.744294477	14.4072	27.2966	0.921931285
DR_1690	tRNA delta(2)-isopentenylpyrophosphate transferase	12.5775	20.2378	0.686207277	18.1656	18.7131	0.042839556
DR_1691	heat shock protein-like protein	8.73181	27.4167	1.650702289	20.4921	9.62668	-1.089957597
DR_1692	long-chain fatty acid--CoA ligase	26.5945	114.941	2.111693688	18.9797	43.9702	1.212068906
DR_1693	hypothetical protein	64.8631	97.2737	0.584651819	52.5838	39.8198	-0.401132428
DR_1694	hypothetical protein	3.96693	49.4286	3.639251199	5.63131	20.5246	1.865811628
DR_1695	lactoylglutathione lyase-like protein	16.3277	57.3921	1.813530584	14.1286	64.8892	2.199359863
DR_1696	DNA mismatch repair protein MutL	7.34847	120.41	4.034367499	15.3044	46.9062	1.615832143
DR_1697	hypothetical protein	1206.45	670.965	-0.846458709	1149.16	219.584	-2.38773484
DR_1698	tRNA-dihydrouridine synthase A	25.2047	88.4157	1.810609789	60.6951	35.9589	-0.755231162
DR_1699	hypothetical protein	159.237	263.389	0.726019498	245.508	113.879	-1.108268307
DR_1700	daunorubicin C-13 ketoreductase	8.05114	12.3204	0.613784115	5.95009	10.2554	0.785400368
DR_1701	2-hydroxyacid dehydrogenase	17.3276	22.941	0.404856435	14.2491	9.17668	-0.634826593
DR_1702	kanamycin resistance protein-like protein	21.129	23.6509	0.162670596	23.9603	14.3009	-0.744540029
DR_1703	3'(2'),5'-bisphosphate nucleotidase CysQ	18.291	18.1575	-0.010568372	11.401	16.5027	0.533541711
DR_1704	bifunctional ornithine acetyltransferase/N-acetylglutamate synthase protein	101.747	54.1101	-0.911016445	32.7776	33.0278	0.010970651
DR_1705	hydrolase family protein	44.6723	42.1334	-0.084416195	56.9203	30.5077	-0.899769848
DR_1706	hypothetical protein	123.796	234.019	0.918660967	183.084	93.1792	-0.974425868

DR_1707	DNA-directed DNA polymerase	30.0517	99.703	1.73019031	24.5748	48.1223	0.969525922
DR_1708	hypothetical protein	852.817	365.278	-1.223241331	295.244	124.011	-1.251439645
DR_1709	manganese transport protein MntH	1023.95	851.551	-0.265980428	1237.57	519.722	-1.251698095
DR_1710	hypothetical protein	24.241	35.7489	0.560449636	14.5627	38.7552	1.412112034
DR_1711	N-acyl-L-amino acid amidohydrolase	7.31798	12.9018	0.81805498	1.36983	8.34465	2.606854678
DR_1712	extracellular solute-binding protein	20.0335	13.1555	-0.606748411	13.5066	14.1142	0.063482806
DR_1713	leucyl/phenylalanyl-tRNA--protein transferase	14.4534	22.1344	0.614881356	10.2846	10.1807	-0.014648923
DR_1714	hypothetical protein	14.019	9.56133	-0.552100224	20.7063	6.55386	-1.659653022
DR_1715	ACT domain-containing protein	9.75781	17.5576	0.847466355	9.70643	16.0718	0.727518837
DR_1716	hypothetical protein	5.56276	8.60193	0.628859528	1.76433	9.60682	2.444938529
DR_1717	Far-like protein	3.66372	9.77676	1.416047188	8.32582	7.64204	-0.123634559
DR_1718	glutamate dehydrogenase	10.2968	17.8553	0.794156322	15.4543	20.7905	0.427916146
DR_1719	hypothetical protein	4.62049	22.081	2.256687748	5.89513	17.6919	1.58549346
DR_1720	aconitate hydratase	399.043	153.086	-1.382201865	130.358	78.1487	-0.738185344
DR_1721	hypothetical protein	52.8904	76.399	0.530547868	120.956	118.336	-0.031593301
DR_1722	hypothetical protein	31.5381	43.2827	0.45669475	48.767	20.9668	-1.217798534
DR_1723	cytochrome P450	1.91591	11.1462	2.540450248	1.16985	12.3286	3.397613519
DR_1724	hypothetical protein	8.97299	17.3153	0.948386675	9.45566	15.2957	0.693876066
DR_1725	WD repeat-containing protein	11.5506	19.0115	0.71890457	10.9565	9.24421	-0.245165071
DR_1726	hypothetical protein	35.7213	30.978	-0.205540581	34.2982	25.113	-0.449698481
DR_1727	phosphoenolpyruvate synthase	12.0122	17.9033	0.575725134	11.6481	15.5486	0.416690039
DR_1728	hypothetical protein	19.2851	18.453	-0.063631245	31.8275	10.1798	-1.644564623
DR_1729	hypothetical protein	7.86617	11.2821	0.520302359	19.306	13.6513	-0.50001094
DR_1730	glycolate oxidase, iron-sulfur subunit	36.6772	13.5133	-1.440503476	24.6602	9.56995	-1.365601208
DR_1731	glycolate oxidase subunit GlcD	61.9239	13.5973	-2.18717613	17.2589	8.18271	-1.076689889
DR_1732	glycolate oxidase subunit GlcE	27.1326	14.1154	-0.942757289	22.6565	7.36898	-1.620388166
DR_1733	hypothetical protein	2.09975	5.02102	1.257762903	2.90113	6.87929	1.24564473
DR_1734	hypothetical protein	0.745134	3.91378	2.392990863	0	2.34075	#DIV/0!
DR_1735	hypothetical protein	1.26413	4.94512	1.967860696	2.13145	6.81728	1.677361026
DR_1736	2',3'-cyclic-nucleotide 2'-phosphodiesterase	27.1381	65.6311	1.274059895	33.7014	35.0682	0.057354857
DR_1737	signal peptidase I	2.22346	14.2713	2.682238403	2.54544	7.44949	1.549226601
DR_1738	hypothetical protein	4.73699	18.8496	1.992491378	0	15.9907	#DIV/0!
DR_1739	hypothetical protein	2.37863	15.2045	2.676295593	4.48411	14.0746	1.650200347
DR_1740	hypothetical protein	19.2387	15.8431	-0.280156663	9.06177	11.2443	0.311329072
DR_1741	hypothetical protein	6.47322	9.29251	0.521584799	22.9627	7.43904	-1.626103927
DR_1742	glucose-6-phosphate isomerase	77.6047	43.1332	-0.847345278	48.8268	21.0445	-1.214229997
DR_1743	fosmidomycin resistance protein	12.0638	24.018	0.993431605	25.129	16.1866	-0.634553282
DR_1744	hypothetical protein	42.8039	63.3944	0.566613153	71.2165	20.0388	-1.829415418
DR_1745	hypothetical protein	22.444	45.2281	1.010889573	23.7821	13.5802	-0.808371386
DR_1746	hypothetical protein	11.1979	31.5949	1.496463498	9.28196	15.9057	0.77704248
DR_1747	LAO/AO transport system kinase	3.74648	7.42672	0.987189437	4.54139	6.01494	0.40541641
DR_1748	hypothetical protein	322.857	916.346	1.504997136	503.731	286.142	-0.815922246

DR_1749	endopeptidase-like protein	20.2277	1774.5	6.454936477	77.3957	694.047	3.164708044
DR_1750	hypothetical protein	171.618	252.522	0.557208206	75.4742	89.5914	0.247376693
DR_1751	DNA polymerase-like protein	9.11821	16.5913	0.863604391	15.0215	10.9941	-0.450299376
DR_1752	hypothetical protein	12.592	46.1302	1.873204101	41.1917	27.607	-0.577319547
DR_1753	septum site-determining protein	7.9495	55.0368	2.791460563	17.9596	22.3735	0.317035744
DR_1754	hypothetical protein	292.2	4048.35	3.79230594	468.275	1461.19	1.641715862
DR_1755	hypothetical protein	214.391	179.628	-0.255232092	336.994	93.8221	-1.844723207
DR_1756	periplasmic serine protease Do	131.252	29.7872	-2.139574985	46.0964	21.4139	-1.106106515
DR_1757	hypothetical protein	5.67326	19.8152	1.804357641	4.17601	12.6128	1.594691513
DR_1758	diaminopimelate decarboxylase	13.3623	23.2012	0.796031071	11.2626	12.7305	0.176749168
DR_1759	tRNA-specific 2-thiouridylase MnmA	27.2731	185.312	2.764405708	27.3972	54.6147	0.99526086
DR_1760	resolvase	221.49	320.042	0.531019682	354.092	453.577	0.357223237
DR_1763	hypothetical protein	127.678	43.8685	-1.541252676	530.512	28.2592	-4.230592855
DR_1764	hypothetical protein	2.63191	8.54036	1.698186729	7.96295	4.02278	-0.985110158
DR_1765	hypothetical protein	6.04307	26.5934	2.137714681	5.55527	22.8214	2.038458361
DR_1766	anthranilate synthase component II	32.8444	38.3917	0.225147034	18.7143	26.1257	0.481328607
DR_1767	anthranilate phosphoribosyltransferase	47.7549	34.3108	-0.476986007	21.1577	22.2424	0.072129662
DR_1768	hypothetical protein	571.345	701.377	0.295827958	313.071	348.38	0.154171926
DR_1769	serine/threonine protein kinase-like protein	26.5728	55.9131	1.073236081	10.9916	25.42	1.209562622
DR_1770	hypothetical protein	26.6807	215.47	3.013618593	64.0842	90.4222	0.496708316
DR_1771	excinuclease ABC subunit A	49.0126	365.692	2.899404481	68.8859	236.78	1.781266608
DR_1772	hypothetical protein	154.201	184.085	0.255559954	235.451	83.0289	-1.50374136
DR_1773	hypothetical protein	24.6033	31.1559	0.340653558	4.82777	13.8313	1.51850791
DR_1774	hypothetical protein	18.1555	25.6371	0.497826415	4.78477	36.9737	2.949977941
DR_1775	DNA helicase II	12.4158	237.722	4.259026296	11.2462	144.047	3.679030101
DR_1776	MutT/nudix family protein	12.4483	99.6669	3.001165722	11.3769	46.02	2.016153481
DR_1777	hypothetical protein	3.97174	36.2315	3.189401447	25.3114	17.5272	-0.530191765
DR_1778	3-isopropylmalate dehydratase large subunit	193.338	51.2069	-1.916715095	98.8885	41.4879	-1.253112122
DR_1779	hypothetical protein	235.556	44.3481	-2.409125879	50.5323	103.85	1.039223465
DR_1780	hypothetical protein	64.3477	34.96	-0.880183398	10.6776	31.7798	1.573522636
DR_1781	hypothetical protein	29.5057	38.05	0.366902768	16.1233	22.7397	0.496066167
DR_1782	hypothetical protein	44.0808	48.2103	0.129191	18.5065	37.8307	1.031525397
DR_1783	hypothetical protein	24.8964	39.8087	0.677146614	0	44.5081	#DIV/0!
DR_1784	3-isopropylmalate dehydratase small subunit	28.4048	36.0534	0.344000574	17.8605	18.9927	0.088672545
DR_1785	3-isopropylmalate dehydrogenase	42.7251	51.0623	0.257174654	30.7124	26.3288	-0.222179487
DR_1786	hypothetical protein	8.77147	21.7858	1.312497544	33.294	19.8363	-0.747119259
DR_1787	mocR protein	5.29548	10.9185	1.043941304	5.38069	6.37158	0.24385998
DR_1788	hypothetical protein	6.05516	18.3542	1.599873246	28.3244	27.9526	-0.019062915
DR_1789	ribosomal large subunit pseudouridine synthase D	17.1497	48.4599	1.498608088	11.2803	28.5036	1.337338706
DR_1790	yellow-like protein	266.09	227.604	-0.225388381	277.39	98.3658	-1.49568707
DR_1791	anthranilate synthase component I	1.79001	7.27111	2.022207974	1.63735	4.24079	1.372970298

DR_1792	hypothetical protein	12.6378	44.8114	1.82612046	18.0964	23.0851	0.351259258
DR_1793	hypothetical protein	6.04513	20.3589	1.751814344	3.22931	8.22519	1.348823065
DR_1794	nosX protein	2.69413	7.29229	1.436552469	0.829137	6.41391	2.951521704
DR_1795	hypothetical protein	4.15184	12.6885	1.611698775	9.81377	13.2012	0.427789712
DR_1796	hypothetical protein	27.4571	561.402	4.353783041	24.2833	178.246	2.875833305
DR_1797	transcription elongation factor NusA	46.4081	654.343	3.817598542	17.1395	303.13	4.144539711
DR_1798	hypothetical protein	9.71334	353.07	5.18384297	12.0641	177.794	3.881414441
DR_1799	translation initiation factor IF-2	44.3691	590.86	3.73518914	14.3147	282.046	4.300361136
DR_1800	acetyltransferase	3.67391	35.7712	3.283410326	33.0338	15.9704	-1.04854249
DR_1801	hypothetical protein	8.66235	30.8059	1.830376314	9.90575	22.6607	1.193854311
DR_1802	hypothetical protein	2.76696	29.8401	3.430878677	16.8872	13.1547	-0.360351793
DR_1803	hypothetical protein	143.706	79.9845	-0.845327942	51.7676	47.0674	-0.137321274
DR_1804	hypothetical protein	396.697	166.433	-1.253095971	646.387	68.6525	-3.235014021
DR_1805	hypothetical protein	9.72811	12.628	0.376394719	17.2864	6.97477	-1.309419902
DR_1806	hypothetical protein	24.3357	66.941	1.45981583	44.2693	38.1045	-0.216345177
DR_1807	hypothetical protein	21.4851	45.1382	1.071012397	22.9777	23.5669	0.036527603
DR_1808	deoxyguanosinetriphosphate triphosphohydrolase-like protein	203.292	164.805	-0.30279343	146.04	287.333	0.976360121
DR_1809	glycine dehydrogenase	45.5811	87.6331	0.943040153	23.7458	47.6432	1.004597955
DR_1810	hypothetical protein	130.502	137.89	0.079445917	88.5566	186.869	1.07735552
DR_1811	glycine cleavage system protein H	67.2653	216.421	1.685906133	118.288	93.4839	-0.339513896
DR_1813	hypothetical protein	53.9876	104.69	0.955423654	60.2384	95.3773	0.662962492
DR_1814	hypothetical protein	8.7474	53.7547	2.619464729	2.61081	38.3411	3.876322353
DR_1815	hypothetical protein	12.1978	69.3958	2.508227384	11.8911	38.8886	1.709465119
DR_1816	hypothetical protein	32.188	92.3342	1.520342174	12.3484	55.5697	2.16997433
DR_1817	phospho-2-dehydro-3-deoxyheptonate aldolase	130.905	48.3506	-1.436914505	87.1955	31.887	-1.45128531
DR_1818	hypothetical protein	188.704	131.566	-0.520338296	316.305	55.2621	-2.51695407
DR_1819	putative UV damage endonuclease	9.44037	39.5765	2.067728721	8.41356	17.9722	1.094978745
DR_1820	hypothetical protein	64.5116	40.3164	-0.678191778	57.8995	20.3044	-1.511758494
DR_1821	hypothetical protein	30.6569	86.5991	1.498140211	98.912	47.5796	-1.055802416
DR_1822	bifunctional preprotein translocase subunit SecD/SecE	247.031	158.97	-0.635937564	1169.04	116.842	-3.322693431
DR_1823	hypothetical protein	348.864	75.6191	-2.205842147	127.746	89.8462	-0.507748726
DR_1824	glucose-1-phosphate adenylyltransferase	18.6835	51.4274	1.460772476	28.7349	26.8884	-0.095820119
DR_1825	preprotein translocase subunit SecE	345.959	1120.1	1.694954561	511.273	527.675	0.045555793
DR_1826	gamma-glutamyl phosphate reductase	77.4227	37.3122	-1.053109194	24.8079	25.4984	0.039607107
DR_1827	gamma-glutamyl kinase	14.258	26.0652	0.870353304	8.14471	11.7444	0.528037774
DR_1828	hypothetical protein	2.79277	14.4268	2.368982662	0.860374	7.9194	3.202355298
DR_1829	hypothetical protein	21.9671	68.7143	1.645265943	21.9576	39.0745	0.831507038
DR_1830	hypothetical protein	79.0287	118.872	0.58896035	35.1413	138.259	1.976133928
DR_1831	hypothetical protein	23.292	96.3137	2.047906503	26.0793	47.2207	0.856514282
DR_1832	hypothetical protein	347.303	281.767	-0.301692217	452.549	104.366	-2.116422217
DR_1833	hypothetical protein	110.662	71.1362	-0.637504088	122.524	119.881	-0.031461349

DR_1834	hypothetical protein	7.135	22.7811	1.674852075	16.4089	9.22077	-0.831519392
DR_1835	phospho-N-acetylmuramoyl-pentapeptide-transferase	21.9702	134.032	2.608957576	42.5813	96.639	1.18238553
DR_1836	signal recognition particle protein	108.86	124.578	0.194575375	97.1112	46.9661	-1.048017895
DR_1837	hypothetical protein	77.2985	71.6155	-0.11016855	119.635	30.9083	-1.95257331
DR_1838	GTP pyrophosphokinase	25.2963	128.801	2.348145507	26.1916	39.486	0.592237034
DR_1839	FKBP-type peptidyl-prolyl cis-trans isomerase	395.781	217.557	-0.863308919	353.845	120.532	-1.553701316
DR_1840	hypothetical protein	939.239	1013.97	0.110450749	1150.15	473.266	-1.281098841
DR_1841	hypothetical protein	41.956	83.7901	0.997902655	139.689	45.9692	-1.603478954
DR_1842	hypothetical protein	15.9789	38.0643	1.252270452	24.6187	16.6241	-0.566478344
DR_1843	peptide ABC transporter putative	17.6204	26.9578	0.613456089	20.9942	13.9567	-0.589032951
DR_1844	hypothetical protein	774.317	745.701	-0.05432704	1241.55	191.174	-2.699184131
DR_1845	hypothetical protein	14.3693	36.0324	1.326304965	17.9202	20.1568	0.169679883
DR_1846	hypothetical protein	38.715	54.6807	0.49813907	59.4286	41.4051	-0.521348915
DR_1847	hypothetical protein	50.9576	30.8908	-0.722120097	68.7779	21.3552	-1.687357657
DR_1848	glycogen branching enzyme	137.815	34.6638	-1.991231199	66.0093	21.2409	-1.635824403
DR_1849	peptide methionine sulfoxide reductase	213.099	166.968	-0.351952191	208.109	62.6594	-1.731736498
DR_1850	hypothetical protein	28.5683	87.5669	1.61597045	99.8855	32.9638	-1.5993927
DR_1851	serine/threonine-protein kinase-like protein	10.8708	59.3031	2.447649407	20.9264	22.1536	0.082217014
DR_1852	hypothetical protein	44.1298	45.6403	0.048555066	34.8624	16.0784	-1.116548043
DR_1853	hypothetical protein	9.28439	10.4791	0.174635785	12.2538	19.615	0.678728126
DR_1854	competence protein ComEC/Rec2	4.50449	5.08699	0.175448485	4.23864	4.96337	0.227718567
DR_1855	competence protein ComEA-like protein	5.25546	10.9051	1.053114049	3.19071	9.06279	1.506077766
DR_1856	aspartyl/glutamyl-tRNA amidotransferase subunit A	30.4383	89.4754	1.555603303	25.1117	38.9521	0.633341411
DR_1857	organic hydroperoxide resistance protein	1713.04	1317.4	-0.378865384	2932.95	414.777	-2.821944675
DR_1858	hypothetical protein	6.14493	32.1862	2.388973777	18.6965	25.2621	0.434206351
DR_1859	hypothetical protein	3.99744	15.0269	1.910399132	7.69256	7.84676	0.028633284
DR_1860	hypothetical protein	23.1651	40.6266	0.810471722	43.2388	14.4288	-1.583375165
DR_1861	hypothetical protein	2.05276	13.4666	2.713748782	5.37605	10.4035	0.952450508
DR_1862	SUA5-like protein	2.65069	26.5338	3.323391443	9.11217	5.23592	-0.799351608
DR_1863	pilin biogenesis protein	39.39	121.509	1.625161854	56.5356	64.8132	0.197128059
DR_1864	hypothetical protein	44.4445	84.7163	0.930634684	91.0797	30.8418	-1.562242573
DR_1865	cell division protein MraZ	1951.4	729.904	-1.418730901	2647.36	588.208	-2.170156081
DR_1866	S-adenosyl-methyltransferase MraW	64.0796	148.904	1.216445462	78.0657	70.8469	-0.139984078
DR_1867	hypothetical protein	56.8439	117.984	1.053513782	62.6231	59.0425	-0.084941117
DR_1868	penicillin-binding protein 2	32.7051	128.098	1.96966042	36.4268	59.3881	0.705173614
DR_1869	polyferredoxin	19.3207	72.3868	1.905579276	29.4217	29.2075	-0.010541732
DR_1870	hypothetical protein	3.80165	30.0946	2.98480702	6.96758	20.1139	1.529463274
DR_1871	chloromuconate cycloisomerase	9.73234	32.4612	1.737857706	11.3707	20.2545	0.8329214
DR_1872	hypothetical protein	101.819	149.114	0.550408914	162.173	92.1845	-0.814937547
DR_1873	hypothetical protein	13.8655	35.8833	1.371812932	27.8395	12.798	-1.121214929
DR_1874	GMP synthase	8.0047	53.4139	2.738295986	8.60009	23.225	1.433254934

DR_1875	hypothetical protein	1.58388	28.0669	4.147334785	0	10.9615	#DIV/0!
DR_1876	hypothetical protein	14.436	30.1484	1.062410391	28.4688	14.0266	-1.021216336
DR_1877	hypothetical protein	1.47442	18.5798	3.655515521	5.06267	8.33514	0.719307983
DR_1878	inosine-5`-monophosphate dehydrogenase	147.676	150.41	0.026465106	96.388	67.9486	-0.50440972
DR_1879	hypothetical protein	29.8088	17.6455	-0.756437988	31.9707	13.1454	-1.28219229
DR_1880	hemolysin	2.8201	17.5403	2.636855197	2.77763	12.1714	2.131568782
DR_1881	hypothetical protein	17.5296	43.156	1.299768076	10.7605	26.5902	1.305149512
DR_1882	hypothetical protein	24.7843	77.47	1.644211227	62.6594	24.3138	-1.365755566
DR_1883	hypothetical protein	2.70989	9.50142	1.809908851	14.6532	8.76361	-0.74161857
DR_1884	transcriptional regulator	5.12702	25.6121	2.320633117	16.5872	14.5429	-0.189755387
DR_1885	hypothetical protein	67.1635	80.3769	0.259103523	133.205	57.0067	-1.224444842
DR_1886	hypothetical protein	111.144	106.5	-0.061576638	108.798	68.7574	-0.662065139
DR_1887	hypothetical protein	57.1315	65.1419	0.189299391	96.0054	39.4237	-1.284052372
DR_1888	hypothetical protein	2.73504	37.9523	3.794553481	9.48671	16.1173	0.76463033
DR_1889	hypothetical protein	6.72123	28.9774	2.108130976	3.61237	22.2772	2.624550338
DR_1890	oxidoreductase	117.831	86.9221	-0.438924211	52.8108	33.3443	-0.663392833
DR_1891	TPR repeat-containing protein	74.8326	67.059	-0.158235932	48.194	34.3539	-0.488379657
DR_1892	dephospho-CoA kinase	25.5508	23.785	-0.103316438	41.948	15.8376	-1.405248299
DR_1893	cyclophilin-type peptidyl-prolyl cis-trans isomerase	444.253	163.392	-1.443044171	196.344	84.3597	-1.218757642
DR_1894	AsnC family transcriptional regulator	15.9171	37.0362	1.218358573	21.14	17.1561	-0.301253746
DR_1895	alanine dehydrogenase	8.08369	36.2452	2.164704048	14.2974	15.5854	0.124442367
DR_1896	hypothetical protein	54.0615	118.999	1.138276003	96.2997	42.8429	-1.168475165
DR_1897	hypothetical protein	184.865	170.848	-0.11375875	368.225	71.3815	-2.366965456
DR_1898	recombination factor protein RarA	5.01543	15.907	1.665216473	1.80564	7.56509	2.066846962
DR_1899	hypothetical protein	15.6132	52.1332	1.739436162	37.3719	29.6294	-0.334924501
DR_1900	hypothetical protein	9.65886	57.0034	2.561123144	21.7585	25.9296	0.253020848
DR_1901	hypothetical protein	19.8774	150.715	2.922622042	23.3799	108.166	2.209906421
DR_1902	exodeoxyribonuclease V subunit RecD	12.0392	172.334	3.839395927	20.0562	85.4809	2.09155381
DR_1903	hypothetical protein	31.9217	46.7725	0.551123058	31.306	29.8415	-0.06911913
DR_1904	hypothetical protein	8.33466	78.0308	3.226848438	13.1814	33.6443	1.351858497
DR_1905	GntR family transcriptional regulator	28.3501	90.2652	1.670816068	33.5778	35.1362	0.065450463
DR_1906	L-lactate permease	16.7982	40.4948	1.269430011	86.4596	23.948	-1.852120986
DR_1907	fumarate reductase-like protein	137.215	46.2412	-1.569187459	70.0179	32.6041	-1.102670396
DR_1909	hypothetical protein	95.3288	43.4171	-1.13464877	50.7698	23.2838	-1.124644046
DR_1910	thermoresistant gluconokinase	6.65048	11.046	0.731993656	11.6674	4.92705	-1.243687085
DR_1911	hypothetical protein	26.2009	28.6804	0.130448776	36.2581	16.6271	-1.124766763
DR_1912	protein-tyrosine phosphatase	3.59062	24.8646	2.791788339	7.38925	10.3688	0.488749093
DR_1913	DNA gyrase subunit A	517.761	1503.61	1.538072211	229.979	685.498	1.575650326
DR_1914	hypothetical protein	9.00114	52.4717	2.543359895	0	46.3553	#DIV/0!
DR_1915	hypothetical protein	28.492	112.895	1.986352792	38.7275	61.6624	0.671032669
DR_1916	ATP-dependent DNA helicase RecG	15.6158	143.535	3.200324185	13.1497	93.4801	2.829629391
DR_1917	hypothetical protein	15.751	76.7472	2.284670692	15.0503	48.5212	1.688822986

DR_1918	aminoglycoside acetyltransferase	5.89348	37.3074	2.662270143	0	29.31	#DIV/0!
DR_1919	hypothetical protein	6.78307	20.9069	1.623968874	3.37236	19.611	2.539832645
DR_1920	hypothetical protein	6.37187	14.0411	1.139867225	39.9455	11.7948	-1.759882032
DR_1921	exonuclease SbcD	5.63572	195.04	5.113026285	8.84598	107.164	3.598654547
DR_1922	exonuclease SbcC	2.17165	107.372	5.627682407	1.6037	39.1364	4.609034863
DR_1923	hypothetical protein	8.17142	38.9671	2.253597856	8.25063	17.7992	1.10923621
DR_1924	hypothetical protein	15.4577	29.7982	0.946899513	10.0655	16.0134	0.669860817
DR_1925	hypothetical protein	44.6208	30.1417	-0.565955592	69.2099	21.7619	-1.669173899
DR_1926	hypothetical protein	6.23317	10.2658	0.719808093	1.25869	12.8957	3.356895173
DR_1927	transposase	56.5341	103.51	0.872576918	42.915	53.4201	0.315900678
DR_1928	glycerol kinase	38.7845	39.852	0.039171926	50.6438	54.5411	0.106958137
DR_1929	glycerol uptake facilitator protein	37.2479	42.7202	0.197759311	120.724	92.0866	-0.390649371
DR_1930	hypothetical protein	8.74387	24.8396	1.506298085	37.613	93.728	1.317248719
DR_1931	hypothetical protein	7.12463	9.93584	0.479826848	25.4441	35.3002	0.472345196
DR_1932	transposase	56.7727	92.397	0.702648655	91.2157	102.073	0.162247233
DR_1933	transposase	25.6302	37.2936	0.541083333	14.6098	22.6234	0.630879335
DR_1934	hypothetical protein	5.7007	11.8644	1.057428157	17.6748	70.3318	1.99248325
DR_1935	transcriptional regulator	10.1323	42.5182	2.069118823	7.00449	24.6749	1.816692322
DR_1936	hypothetical protein	4656.74	1652.23	-1.494905802	4216.14	648.244	-2.701313921
DR_1937	serine protease	18.4587	33.7118	0.868952709	14.5447	20.9991	0.529833957
DR_1938	short chain dehydrogenase/reductase family oxidoreductase	9.69121	45.1339	2.219462736	19.9945	17.6296	-0.181603463
DR_1940	hypothetical protein	40.6954	24.9665	-0.704872142	36.704	22.999	-0.674366163
DR_1941	3-oxoacyl-acyl carrier protein synthase II	84.9671	105.989	0.318938313	77.0555	82.2797	0.094638598
DR_1942	acyl carrier protein	2206.62	1943.64	-0.183077177	3551.79	1104.53	-1.685113681
DR_1943	3-oxoacyl-acyl carrier protein reductase	105.125	148.383	0.497220014	130.541	63.7999	-1.032876928
DR_1944	hypothetical protein	155.984	214.595	0.460218409	295.424	108.546	-1.444480472
DR_1945	malonyl CoA-acyl carrier protein transacylase	30.6252	77.855	1.346070429	102.133	33.5479	-1.606154722
DR_1946	3-oxoacyl-ACP synthase III	43.8515	89.5492	1.030054351	135.54	56.1238	-1.272034078
DR_1947	3-oxoacyl-(acyl carrier protein) synthase III	9.39536	15.7076	0.741442418	11.9665	9.6128	-0.315972627
DR_1948	trigger factor	113.436	574.051	2.339300349	34.4982	214.696	2.637702319
DR_1949	ribonuclease HII	2.5197	8.86063	1.814157305	4.35169	4.76259	0.130170568
DR_1950	ferredoxin	16.0041	15.792	-0.019247653	9.32416	30.822	1.724914813
DR_1951	hypothetical protein	47.1355	56.4945	0.261296389	30.7415	52.7202	0.778168282
DR_1952	hypothetical protein	53.0991	44.0849	-0.268402821	51.1656	19.8541	-1.36573721
DR_1953	hypothetical protein	30.8774	29.1442	-0.083342476	30.456	20.3891	-0.578928381
DR_1954	hypothetical protein	16.1035	12.9336	-0.316250386	17.2753	21.1321	0.290725378
DR_1955	extracellular solute-binding protein	695.294	212.786	-1.708219906	366.531	95.2149	-1.944675961
DR_1956	hypothetical protein	41.256	21.6536	-0.929997052	164.27	23.1906	-2.824456979
DR_1957	hypothetical protein	41.2865	20.1239	-1.036760196	77.5332	11.3983	-2.76599554
DR_1958	ADP-ribosylglycohydrolase	24.4776	10.2341	-1.258077875	27.8869	6.04352	-2.206126583
DR_1959	hypothetical protein	16.5675	9.95966	-0.734187521	26.2621	3.81409	-2.783571491

DR_1960	acetyl-CoA acetyltransferase	138.243	111.611	-0.308727209	253.945	63.9128	-1.990339271
DR_1961	ankyrin-like protein	15.5741	11.4507	-0.443713	22.5664	6.13242	-1.879647871
DR_1962	hypothetical protein	988.292	243.145	-2.023120438	1378.83	92.3217	-3.900630994
DR_1963	twitching mobility protein	146.073	38.7879	-1.913010962	51.245	16.397	-1.643979364
DR_1964	general secretion pathway protein E	159.748	35.4933	-2.170179248	56.5578	20.2612	-1.48100638
DR_1965	hypothetical protein	28.9108	19.7875	-0.54701918	95.6006	16.6186	-2.524220822
DR_1966	hypothetical protein	21.8671	28.4159	0.377936506	49.4871	10.1235	-2.289344342
DR_1967	enoyl-acyl carrier protein reductase	170.545	113.974	-0.581447708	77.4197	40.8037	-0.924000738
DR_1968	nitroreductase	30.1093	87.5464	1.539838687	37.0095	44.1578	0.254772652
DR_1969	hypothetical protein	302.542	238.071	-0.345743543	950.145	122.291	-2.957829465
DR_1970	transcription elongation factor	94.1816	188.613	1.001911979	163.051	66.5722	-1.292331539
DR_1971	hypothetical protein	2.74917	23.8284	3.115614056	7.27234	10.2554	0.495892208
DR_1972	ATP-dependent Clp protease proteolytic subunit	517.684	679.2	0.391764729	498.199	265.605	-0.90743982
DR_1973	ATP-dependent protease ATP-binding subunit ClpX	360.417	495.437	0.459034554	270.037	164.14	-0.718230238
DR_1974	ATP-dependent protease LA	191.52	440.294	1.200972127	140.019	187.451	0.420809014
DR_1975	hypothetical protein	23.2899	76.9889	1.724946013	17.1684	42.0793	1.293355111
DR_1976	DNA mismatch repair protein MutS	94.5938	101.027	0.09492338	63.2386	41.0033	-0.625065405
DR_1977	hypothetical protein	45.0039	20.8762	-1.108190901	20.4419	12.7626	-0.679607031
DR_1978	acetyltransferase	38.7093	30.8327	-0.328218988	37.2586	19.2625	-0.951778509
DR_1979	hypothetical protein	83.2444	46.0667	-0.853628969	49.3442	20.1265	-1.293784209
DR_1980	hypothetical protein	186.18	190.705	0.034644567	208.286	87.422	-1.252497583
DR_1981	hypothetical protein	99.624	182.791	0.875629796	89.9809	79.4164	-0.180181833
DR_1982	thioredoxin reductase	374.734	342.3	-0.130605588	338.631	116.313	-1.541701699
DR_1983	30S ribosomal protein S1	163.551	3831.48	4.550089289	81.8987	1143.14	3.803017739
DR_1984	thymidine kinase	9.23891	102.783	3.475735203	14.5056	52.9176	1.86713766
DR_1985	beta-lactamase	5.14842	66.9889	3.701720406	4.32721	27.416	2.663509055
DR_1986	degV protein	21.9174	107.746	2.297485741	42.3593	44.4571	0.069735094
DR_1987	hypothetical protein	5398.06	1231.94	-2.131509019	1748.83	953.613	-0.874914246
DR_1988	PhoH-like protein	154.87	259.318	0.743664646	126.315	92.4687	-0.449988959
DR_1989	hypothetical protein	5.7116	20.6192	1.852021507	12.7629	20.1327	0.657584488
DR_1990	hypothetical protein	4.22018	6.78059	0.684106278	9.19033	7.62806	-0.268800474
DR_1991	hypothetical protein	4.98341	18.1646	1.865924418	6.88714	8.46505	0.297613586
DR_1992	hypothetical protein	36.3342	23.8762	-0.605754898	25.7413	12.7099	-1.018132236
DR_1993	hypothetical protein	67.4736	55.4725	-0.282550392	38.5069	26.365	-0.546492987
DR_1994	hypothetical protein	331.346	472.227	0.511142028	230.932	447.387	0.954055236
DR_1995	hypothetical protein	35.6659	27.9618	-0.351088144	55.9508	17.9526	-1.639965961
DR_1997	hypothetical protein	71.8704	120.108	0.740862627	77.7912	57.073	-0.446798563
DR_1998	catalase	6794.68	1106.95	-2.61781555	1289.8	525.034	-1.296664618
DR_1999	hypothetical protein	71.7998	55.2108	-0.37902932	192.315	22.8707	-3.071898865
DR_2000	mccF protein	63.3623	39.371	-0.686491348	63.1749	20.6813	-1.611024601
DR_2001	hypothetical protein	2.46216	34.3708	3.80318701	23.3104	16.2221	-0.523013168

DR_2002	hypothetical protein	65.8348	110.339	0.745020517	61.2689	82.8189	0.434805091
DR_2003	hypothetical protein	29.3319	71.1891	1.279185836	67.5845	41.7946	-0.69337586
DR_2004	50S ribosomal protein L20	2981.97	8165.12	1.453208345	6101.18	2826.16	-1.11024515
DR_2005	50S ribosomal protein L35	1703.51	7949.01	2.222264776	5815.97	2672.54	-1.121808287
DR_2006	hypothetical protein	15.1126	46.9312	1.634795464	15.6037	28.9163	0.889994797
DR_2007	hypothetical protein	71.6012	138.808	0.955035046	17.2955	101.002	2.545915234
DR_2008	aspartate-semialdehyde dehydrogenase	640.494	142.372	-2.169519613	248.166	58.1949	-2.092340841
DR_2009	hypothetical protein	94.9081	107.789	0.183606831	211.761	44.8179	-2.240289957
DR_2010	16S rRNA-processing protein RimM	74.6884	90.7777	0.281453743	85.5725	35.4414	-1.271711645
DR_2011	tRNA (guanine-N(1)-)-methyltransferase	5.97467	38.8658	2.701570277	11.193	22.0498	0.978168804
DR_2012	hypothetical protein	1.85985	64.7747	5.122172253	7.94476	24.3484	1.615751428
DR_2014	hypothetical protein	92.2427	59.4625	-0.633454622	103.372	46.4205	-1.155011494
DR_2015	oxidoreductase, FAD-binding	34.2891	35.3632	0.044498792	25.5526	21.1893	-0.270134166
DR_2016	hypothetical protein	33.6947	35.5483	0.077258888	25.9433	20.2004	-0.360978142
DR_2017	ArgE/DapE/Acy1 family protein	8.33196	11.9174	0.516341701	11.1829	6.82583	-0.712217974
DR_2018	hypothetical protein	5.43206	37.6329	2.792423148	12.0884	16.5034	0.449139972
DR_2019	hypothetical protein	15.3001	69.5836	2.185206238	14.8887	41.8851	1.492219327
DR_2020	hypothetical protein	13.1846	32.441	1.298964489	14.92	24.4428	0.712162024
DR_2021	membrane protein	27.9902	43.3953	0.632617002	50.9485	28.3969	-0.843306228
DR_2022	hypothetical protein	39.4867	62.7244	0.667659962	112.517	23.1437	-2.28145156
DR_2023	hypothetical protein	14.0204	35.0888	1.3234831	17.1376	14.5527	-0.235878239
DR_2024	hypothetical protein	14.211	37.6991	1.407522004	13.9162	19.6808	0.500023547
DR_2025	ArgE/DapE/Acy1 family protein	14.1335	86.5582	2.614551721	23.7164	38.0145	0.680664781
DR_2026	phosphoribosylglycinamide formyltransferase	6.04513	37.4342	2.630511653	14.5319	13.5128	-0.104896695
DR_2027	hypothetical protein	6.23317	28.2308	2.179232047	11.3282	17.0408	0.589074425
DR_2029	hypothetical protein	60.179	28.6731	-1.069562243	24.7006	17.2923	-0.514416316
DR_2030	hypothetical protein	29.0676	33.6505	0.211215983	32.7968	13.4027	-1.291031394
DR_2031	hypothetical protein	17.0931	39.8275	1.220350856	22.2611	26.4574	0.24914641
DR_2032	methylmalonyl-CoA mutase subunit alpha, chain B	5.10265	27.4043	2.425083691	10.4432	13.0921	0.326132678
DR_2033	glutamine synthase	714.292	313.488	-1.188103744	116.615	203.336	0.80211229
DR_2034	AAC(3) family N-acetyltransferase	48.9389	127.389	1.380187127	83.0708	68.7418	-0.273153819
DR_2035	hypothetical protein	5.96512	56.0252	3.231452828	7.96071	19.1244	1.264445473
DR_2036	trehalose synthase	18.8071	32.5785	0.792642773	15.6096	23.3041	0.578150229
DR_2037	hypothetical protein	26.4864	40.5959	0.616082262	65.1996	30.9045	-1.077046189
DR_2038	hypothetical protein	2.5632	34.9749	3.770301974	9.31423	26.4896	1.507917646
DR_2039	hypothetical protein	5.67489	30.9099	2.445404654	12.3012	43.9086	1.835704476
DR_2040	ParA family chromosome partitioning ATPase	19.7688	76.3782	1.949935621	21.4796	42.3024	0.977772389
DR_2041	hypothetical protein	54.3667	96.6289	0.829731477	27.9532	71.7071	1.359102525
DR_2042	hypothetical protein	45.6106	92.9582	1.027212985	25.1032	52.6297	1.068005889
DR_2043	50S ribosomal protein L7/L12	2492.11	14014.7	2.491501208	1232.77	5565.62	2.174638751
DR_2044	50S ribosomal protein L10	1366.18	8057.23	2.560136362	512.847	2630.69	2.358840862

DR_2045	50S ribosomal protein L1	234.345	2219.7	3.243658786	229.094	1201.27	2.390548871
DR_2046	50S ribosomal protein L11	439.079	3412.48	2.95826815	211.864	1659.12	2.969207866
DR_2047	transcription antitermination protein NusG	332.37	2105.08	2.663012987	183.794	802.826	2.12699767
DR_2048	preprotein translocase subunit SecE	689.926	3216.33	2.220901902	300.494	1414.62	2.235006474
DR_2049	50S ribosomal protein L33	2436.62	5055.32	1.052921142	1050.96	1837.53	0.806060043
DR_2050	elongation factor Tu	2260.62	7351.89	1.701396679	1041.94	2925.88	1.489598398
DR_2051	ABC transporter ATP-binding protein	61.6254	107.452	0.802095325	108.972	79.3697	-0.457297229
DR_2052	ABC transporter ATP-binding protein phosphate transport system regulatory protein PhoU	72.8421	133.984	0.879216308	141.614	94.0753	-0.590076008
DR_2053		12.5177	26.9923	1.108578407	11.448	13.7557	0.26493398
DR_2054	hypothetical protein	5.3963	37.8002	2.808351407	4.02136	14.1106	1.811023934
DR_2055	oligoendopeptidase F	4.95158	27.2362	2.459564579	9.96703	18.2321	0.871245167
DR_2056	hypothetical protein	5.54053	37.4323	2.756187802	7.40969	18.6192	1.329305996
DR_2057	hypothetical protein	236.923	250.882	0.082590706	197.283	101.732	-0.95549309
DR_2058	hypothetical protein	52.7859	28.1854	-0.905204571	55.1233	14.4586	-1.930734393
DR_2059	glycyl-tRNA synthetase	41.2436	244.055	2.564964138	18.6055	119.491	2.683100892
DR_2060	hypothetical protein	36.2953	238.773	2.717785063	36.5714	132.178	1.85369431
DR_2061	hypothetical protein	131.116	83.6442	-0.648506337	79.5365	45.1383	-0.817264993
DR_2062	WD repeat-containing protein	34.7765	32.7008	-0.088786813	33.2699	17.9397	-0.891061765
DR_2063	polynucleotide phosphorylase/polyadenylase	159.924	155.428	-0.041140037	131.506	55.9185	-1.233731058
DR_2064	hypothetical protein	9.88843	26.4334	1.418548618	14.92	18.0664	0.276061521
DR_2065	prepilin peptidase, type IV	4.4721	13.7432	1.61969361	5.47931	9.86186	0.847865544
DR_2066	hypothetical protein	102.243	169.211	0.726821284	65.6137	73.3304	0.160414331
DR_2067	N-utilization substance protein B	258.027	230.048	-0.165587124	142.901	94.8534	-0.591244619
DR_2068	alkaline shock protein-like protein	267.491	256.118	-0.062681702	173.043	88.0917	-0.974052582
DR_2069	DNA ligase	21.871	88.8905	2.023010056	21.5838	38.4756	0.833994939
DR_2070	membrane lipoprotein	1187.36	1281.97	0.110605084	532.863	489.733	-0.121769248
DR_2071	phosphoglucosamine mutase	28.2871	36.4077	0.364099325	66.8526	20.3831	-1.713610187
DR_2072	hypothetical protein	3.98619	13.0069	1.706194776	2.9908	7.99755	1.419026669
DR_2073	hypothetical protein	4.30045	16.8905	1.973652499	13.2932	8.45827	-0.652253919
DR_2074	3-methyladenine glycosidase	15.0196	32.2171	1.100980245	20.2342	18.3853	-0.138243093
DR_2075	ferredoxin	56.6666	65.1861	0.20206572	84.7713	46.1712	-0.876582683
DR_2076	hypothetical protein	68.39	45.6987	-0.581632264	36.7041	23.8946	-0.61925661
DR_2077	hypothetical protein	44.8579	147.709	1.719323745	205.538	49.799	-2.045216468
DR_2078	lipase	1411.86	254.995	-2.469056174	1319.39	217.133	-2.603220166
DR_2079	hypothetical protein	11.1404	22.5691	1.018547854	17.2333	18.4437	0.097929115
DR_2080	hypothetical protein	13.9455	33.6778	1.271998236	16.5872	22.1971	0.420300831
DR_2081	threonyl-tRNA synthetase	152.591	242.342	0.667374585	123.325	75.6749	-0.704578519
DR_2082	hypothetical protein	632.711	127.329	-2.312985638	2745.86	77.7321	-5.142603768
DR_2083	hypothetical protein	7.51047	36.2392	2.270576009	10.5168	23.1212	1.136520481
DR_2084	glycerophosphoryl diester phosphodiesterase	4.07689	37.0513	3.183983226	24.7762	23.3052	-0.08830304
DR_2085	glutaredoxin	457.76	809.824	0.823016997	1368.13	320.351	-2.094479923

DR_2086	hypothetical protein	431.548	260.718	-0.727030846	593.991	187.926	-1.660276391
DR_2087	translation initiation factor IF-3	1874.66	6069.83	1.695027148	2957.7	2662.29	-0.151807996
DR_2088	hypothetical protein	32.1178	60.0213	0.902101492	95.2031	29.8385	-1.673833539
DR_2089	ferripyochelin-binding protein	45.6009	42.6968	-0.09493435	97.2918	18.9343	-2.36131613
DR_2090	hypothetical protein	110.564	32.9832	-1.745078436	55.8986	20.881	-1.420621346
DR_2091	chalcone synthase	37.6473	43.7643	0.217208094	57.573	18.7529	-1.618278675
DR_2092	hypothetical protein	24.8966	56.1829	1.17418236	45.5074	25.414	-0.840477698
DR_2093	diacylglycerol kinase	25.9507	64.556	1.314777735	28.3244	23.4802	-0.270600698
DR_2094	rrf2 protein	69.7488	137.937	0.983769194	205.225	51.931	-1.982538575
DR_2095	c-type cytochrome	374.938	679.886	0.858640812	769.876	305.422	-1.333822112
DR_2096	endopeptidase IV-like protein	32.0069	121.618	1.925901912	22.7722	61.9334	1.443443973
DR_2097	hypothetical protein	12.5453	77.5913	2.628747927	14.3332	89.7139	2.645970791
DR_2098	hypothetical protein	2.50561	26.5352	3.404673642	13.4525	21.7714	0.694559876
DR_2099	hypothetical protein	42.8169	48.645	0.184111178	29.9732	27.0672	-0.147127463
DR_2100	hypothetical protein	137.315	87.7506	-0.646008336	104.018	65.8425	-0.659742184
DR_2101	hypothetical protein	326.309	453.132	0.473692598	196.937	200.339	0.024709112
DR_2102	plasmid stability protein	622.101	449.064	-0.470227755	211.625	279.775	0.402756984
DR_2103	hypothetical protein	557.607	569.543	0.030556096	282.38	226.089	-0.320747109
DR_2104	hypothetical protein	351.403	408.945	0.218780317	307.348	163.835	-0.907629505
DR_2105	hypothetical protein	7996.08	1684.88	-2.246647062	663.273	2756.31	2.055063452
DR_2106	hypothetical protein	1120.19	615.186	-0.864648878	683.852	289.174	-1.241746286
DR_2107	ABC transporter ATP-binding protein molybdate metabolism regulator-like protein	1273.12	845.192	-0.591017392	843.228	336.162	-1.326766123
DR_2108		19.6921	85.9333	2.125600327	41.8707	52.6417	0.330265042
DR_2109	ribosomal protein S14	230.05	3149.76	3.775222543	254.81	1619.63	2.668170469
DR_2110	30S ribosomal protein S8	166.626	1225.05	2.878155195	125.067	543.408	2.119334633
DR_2111	50S ribosomal protein L6	340.58	2588.19	2.925877907	182.771	1394.91	2.932062959
DR_2112	50S ribosomal protein L18	530.165	2747.53	2.373621898	152.927	1642.45	3.424934403
DR_2113	30S ribosomal protein S5	574.287	2888.01	2.330231928	216.364	1420.02	2.71437887
DR_2114	50S ribosomal protein L30	434.309	4216.4	3.279217984	348.065	2772.98	2.994008556
DR_2115	50S ribosomal protein L15	332.981	4092.93	3.619622229	384.93	1441.71	1.905112977
DR_2116	preprotein translocase subunit SecY	303.808	1115.63	1.87662687	193.067	792.885	2.03801004
DR_2117	adenylate kinase	722.893	435.985	-0.72950362	295.011	257.321	-0.197199548
DR_2118	ABC transporter ATP-binding protein	11.733	39.0099	1.733268358	8.81085	29.4759	1.742182754
DR_2119	ABC transporter ATP-binding protein	2.6152	14.8204	2.502591199	3.35126	10.2412	1.611609247
DR_2120	branched-chain amino acid ABC transporter permease	3.16245	13.8913	2.135067043	6.25839	12.5021	0.998306977
DR_2121	branched-chain amino acid ABC transporter permease	6.9084	16.2429	1.23338571	5.44794	20.0842	1.882278277
DR_2122	branched-chain amino acid ABC transporter periplasmic amino acid-binding protein	12.2325	33.6169	1.458467409	12.3655	29.42	1.25047667
DR_2123	translation initiation factor IF-1	2028.75	10174.3	2.326266539	5267.45	14390.6	1.449950125
DR_2124	50S ribosomal protein L36	3866.38	18865.4	2.286687347	2668.01	24687.3	3.209933081
DR_2125	30S ribosomal protein S13	1027.44	5053.54	2.298240202	673.24	1623.37	1.269799057
DR_2126	30S ribosomal protein S11	972.362	4774.83	2.29588395	1002.63	2351.83	1.229994473

DR_2127	30S ribosomal protein S4	582.822	3112	2.416714819	239.853	2000.96	3.060469938
DR_2128	DNA-directed RNA polymerase subunit alpha	461.148	2370.85	2.362102643	232.013	1585.28	2.77246013
DR_2129	50S ribosomal protein L17	335.616	3173.72	3.241291452	455.261	1324.07	1.540213614
DR_2130	protease	189.721	206.224	0.120332863	233.993	113.094	-1.04894298
DR_2131	hypothetical protein	268.233	282.377	0.074135845	101.066	344.313	1.768422917
DR_2132	hypothetical protein	157.347	216.223	0.458570321	387.566	115.22	-1.75005085
DR_2133	hypothetical protein	6.05329	62.0189	3.356916564	2.89428	32.6949	3.497789207
DR_2134	ABC transporter ATP-binding protein	18.7216	161.528	3.109008628	33.6773	58.0395	0.785258613
DR_2135	phosphopentomutase	33.8669	43.0192	0.34510476	53.3531	20.4422	-1.384021631
DR_2136	hypothetical protein	18.303	22.7126	0.31141273	30.1607	14.8404	-1.023139934
DR_2137	hypothetical protein	2.32113	19.204	3.04850761	4.53489	19.1195	2.075905334
DR_2138	hypothetical protein	103.225	52.1917	-0.983900119	25.7642	41.6414	0.692650777
DR_2139	hypothetical protein	250.87	274.837	0.131636282	209.526	213.68	0.028322603
DR_2140	histidinol dehydrogenase	33.1455	22.3253	-0.570133454	21.5541	10.846	-0.990799248
DR_2141	hypothetical protein	7.58558	14.3366	0.918371522	8.82166	14.09	0.675549549
DR_2142	hypothetical protein	60.6091	108.921	0.845675808	72.1529	91.4537	0.341984158
DR_2143	hypothetical protein	304.328	231.333	-0.395655993	201.203	230.34	0.19511315
DR_2144	hypothetical protein	38.1554	16.718	-1.190484985	26.2621	13.985	-0.909102029
DR_2145	ABC transporter ATP-binding protein	14.2769	21.0913	0.562965266	13.7732	11.9072	-0.210029587
DR_2146	hypothetical protein	109.82	210.47	0.938473792	83.5285	69.1037	-0.273505572
DR_2147	hypothetical protein	10.0653	28.2328	1.487982043	11.989	17.0404	0.507247872
DR_2148	TetR family transcriptional regulator	45.8986	188.77	2.04010745	82.5237	80.7393	-0.031537428
DR_2149	inner membrane protein, 60 kDa	11.8263	370.461	4.969250987	12.231	228.982	4.226619926
DR_2150	hypothetical protein	4.20913	189.958	5.496014593	0	123.074	#DIV/0!
DR_2151	ribonuclease P protein component	6.40333	185.27	4.854663118	16.3937	78.4945	2.259450068
DR_2152	50S ribosomal protein L34	849.918	11082.1	3.704763823	948.367	6139.44	2.6945897
DR_2153	sugar ABC transportor, ATP-binding protein	52.3309	126.454	1.272877697	34.219	60.7503	0.828093933
DR_2154	amino acid ABC transporter periplasmic amino acid-binding protein	22.0287	26.0966	0.244477499	15.5024	18.4513	0.251230883
DR_2155	amino acid ABC transporter permease	17.327	76.5773	2.143894906	28.977	32.664	0.172793233
DR_2156	hypothetical protein	46.9921	234.207	2.31729405	58.9901	75.0538	0.347452263
DR_2157	hypothetical protein	6.39921	81.8576	3.677150652	14.2001	45.5266	1.680808631
DR_2158	hypothetical protein	9.22301	63.7963	2.790163187	9.61894	25.4703	1.404866128
DR_2159	hypothetical protein	22.6565	34.1801	0.593231609	11.3938	15.8718	0.478216764
DR_2160	delta-aminolevulinic acid dehydratase	51.9244	98.6332	0.9256607	87.4478	27.0998	-1.690139885
DR_2161	protein-tyrosine phosphatase-like protein	36.238	65.8794	0.862324081	54.0902	24.3353	-1.152316672
DR_2162	hypothetical protein	5.17017	32.6454	2.658596095	5.41856	13.1043	1.274058884
DR_2163	hypothetical protein	5.44555	15.816	1.538235103	0	14.0102	#DIV/0!
DR_2164	lytB protein	115.762	61.3023	-0.917148644	114.01	31.8051	-1.841830343
DR_2165	hypothetical protein	184.69	324.034	0.811039445	478.7	87.7283	-2.448007589
DR_2166	purine nucleoside phosphorylase	168.976	162.731	-0.054329244	150.464	73.1343	-1.040798255
DR_2167	hypothetical protein	9.01654	25.9594	1.525611213	3.70131	13.0451	1.817400126

DR_2168	16S rRNA m5C967 methyltransferase	11.3177	29.0895	1.361917698	17.8216	16.0334	-0.152546474
DR_2169	drug transport protein	62.635	65.1444	0.056672116	325.038	39.1132	-3.054880914
DR_2170	hypothetical protein	0	11.2815	#DIV/0!	0	11.2452	#DIV/0!
DR_2171	hypothetical protein	1.82364	36.756	4.333086909	0	22.4462	#DIV/0!
DR_2172	hypothetical protein	6.77389	82.3377	3.603496685	16.2191	47.3754	1.546444358
DR_2173	hypothetical protein	8.49216	152.676	4.168197931	17.8396	78.3517	2.13488131
DR_2174	leucyl-tRNA synthetase	229.373	119.504	-0.94063667	57.691	91.6462	0.667728791
DR_2175	hypothetical protein	1018.04	456.21	-1.158024272	1182.93	156.945	-2.914033732
DR_2176	hypothetical protein	11.2929	465.274	5.364592649	28.0046	215.744	2.945584711
DR_2177	cytidine deaminase	4.40784	391.695	6.473515046	11.1455	235.346	4.400250089
DR_2178	adenylosuccinate lyase	30.1937	245.852	3.025470628	37.8189	97.6462	1.3684565
DR_2179	hypothetical protein	66.6742	141.246	1.083009497	45.9255	76.0435	0.727529507
DR_2180	hypothetical protein	87.8203	72.8314	-0.269993885	32.3548	50.5113	0.642626413
DR_2181	hypothetical protein	52.0877	86.7361	0.735689841	21.172	49.315	1.219868975
DR_2182	hypothetical protein	44.3635	81.7361	0.881600218	33.5762	39.9361	0.25025449
DR_2183	hypothetical protein	4.251	25.1256	2.563283884	23.5077	6.42993	-1.870258455
DR_2184	hypothetical protein	5.95721	10.4402	0.809440627	9.10017	7.40054	-0.298262952
DR_2185	hypothetical protein	17.8287	263.559	3.885852542	14.6611	107.935	2.880097506
DR_2186	O-acetylhomoserine (thiol)-lyase/O-acetylserine (thiol)-lyase	18.8713	37.9706	1.008688986	13.1959	28.3286	1.102169555
DR_2187	cyclopropane-fatty-acyl-phospholipid synthase	5.01122	16.7712	1.742752138	7.84727	12.4408	0.664816516
DR_2188	aminopeptidase	47.5868	110.482	1.215177993	58.6004	42.8418	-0.451891416
DR_2189	hypothetical protein	21.706	90.1075	2.053553303	20.1797	40.4952	1.004846185
DR_2190	NADH-dependent flavin oxidoreductase	187.561	122.114	-0.619131266	128.148	77.2017	-0.731106441
DR_2192	ABC transporter ATP-binding protein	3.4648	33.7387	3.283560403	6.62193	11.1344	0.749700152
DR_2193	hypothetical protein	4.77728	63.0172	3.721484312	25.0101	42.7105	0.772079961
DR_2194	ribosomal protein S6 modification protein	24.8728	36.4915	0.55299153	12.3478	13.969	0.177974726
DR_2195	alpha-glucan phosphorylase	24.805	74.8824	1.593995717	27.1101	47.2151	0.800417891
DR_2196	hypothetical protein	5.86054	11.6304	0.988795208	4.49519	11.0162	1.293172656
DR_2197	ABC transporter permease	47.5153	147.022	1.629568009	46.4098	62.1078	0.420344985
DR_2198	ABC transporter ATP-binding protein	21.7211	83.0966	1.935692283	16.5285	38.0614	1.203372826
DR_2199	ATP-dependent DNA helicase RecG-like protein	9.97597	66.2815	2.73207722	14.7629	27.8341	0.914877285
DR_2200	orotidine 5`-phosphate decarboxylase	3.96863	16.5682	2.061703904	3.72734	9.82748	1.398675098
DR_2201	hypothetical protein	92.3525	132.044	0.515795827	129.586	47.4808	-1.448493715
DR_2202	UDP-glucose 4-epimerase	29.565	43.3975	0.553721659	26.9123	24.3477	-0.144480198
DR_2203	hypothetical protein	12.8806	38.1934	1.568123557	10.7696	19.6169	0.865132408
DR_2204	MutT/nudix family protein	19.0202	45.6804	1.264042867	18.843	22.2985	0.242917989
DR_2205	hypothetical protein	11.8228	18.2777	0.628512788	15.6724	11.8434	-0.404142816
DR_2206	citrate lyase subunit beta	27.4779	30.1804	0.135340177	11.448	18.723	0.70971604
DR_2207	hypothetical protein	219.022	309.465	0.498700461	641.905	106.693	-2.588894273
DR_2208	lactoylglutathione lyase	64.8174	132.144	1.027657864	57.4328	65.7052	0.194132653
DR_2209	SudD-like protein	484.084	208.564	-1.214767254	470.654	102.795	-2.194896763

DR_2210	hypothetical protein	13.8404	21.5187	0.636705285	18.8829	29.0707	0.622485463
DR_2211	rRNA methylase SpoU	17.7975	33.6979	0.920984086	55.9748	19.5157	-1.520142257
DR_2212	hypothetical protein	13.4566	27.2417	1.017502798	21.8664	8.43627	-1.374038546
DR_2213	hypothetical protein	6.19295	20.7685	1.745698318	7.25162	8.01664	0.144694362
DR_2214	hypothetical protein	3.8509	13.5912	1.819405276	3.60855	7.98898	1.146592073
DR_2215	hypothetical protein	0.976099	9.7569	3.321323458	3.33495	7.33842	1.137804345
DR_2216	hypothetical protein	38.0478	30.6004	-0.314262525	32.5522	23.4317	-0.474293422
DR_2218	hypothetical protein	9.96683	19.2607	0.95045351	6.12191	11.0046	0.846052966
DR_2219	hypothetical protein	8.69674	18.0952	1.057060445	4.47028	17.4372	1.963731292
DR_2220	tellurium resistance protein TerB (terB) putative	112.967	322.157	1.51186255	7.17715	182.289	4.666672623
DR_2221	tellurium resistance protein TerD	504.238	384.437	-0.391357651	262.79	325.533	0.308893422
DR_2222	transposase	85.4531	105.763	0.30763027	90.305	84.509	-0.095700876
DR_2223	tellurium resistance protein TerA	10.9967	35.5733	1.693724164	11.2391	27.836	1.3084254
DR_2224	tellurium resistance protein TerZ	9.36299	22.4862	1.263998655	8.13076	17.1561	1.077259515
DR_2225	tellurium resistance protein TerD	33.1989	74.1755	1.159807306	18.4121	73.6251	1.999543505
DR_2226	hypothetical protein	2.98373	34.2806	3.522203465	2.3269	24.8781	3.418395191
DR_2227	2,3-bisphosphoglycerate-independent phosphoglycerate mutase	169.765	104.62	-0.698380378	136.215	51.0356	-1.416309723
DR_2228	hypothetical protein	10.2815	22.0612	1.101460508	7.74474	16.9257	1.127926789
DR_2229	hypothetical protein	209.997	489.099	1.219757797	506.27	179.272	-1.497756822
DR_2230	hypothetical protein	45.2331	44.7564	-0.015284876	149.828	32.9638	-2.184352793
DR_2231	hypothetical protein	6.8572	24.1994	1.819279772	17.1046	10.5303	-0.699837828
DR_2232	hypothetical protein	66.8846	67.6132	0.015630856	151.605	38.2493	-1.986812085
DR_2233	hypothetical protein	38.2706	42.6322	0.155706987	57.8499	27.681	-1.063418403
DR_2234	hypothetical protein	74.9588	28.1138	-1.414819389	76.5784	17.9395	-2.093797837
DR_2235	hypothetical protein	115.185	30.6421	-1.910365775	87.652	16.8807	-2.37641228
DR_2236	hypothetical protein	20.9573	27.1563	0.373834067	0	35.0844	#DIV/0!
DR_2237	hypothetical protein	26.5711	41.1287	0.630287517	35.5781	16.6608	-1.094531791
DR_2238	carbonic anhydrase	28.1048	81.9189	1.543379795	34.8934	50.4045	0.53059836
DR_2239	acetylornithine deacetylase	12.8672	76.6272	2.574158443	16.7904	31.246	0.896034913
DR_2240	hypothetical protein	525.573	834.779	0.667503145	660.535	265.582	-1.314477638
DR_2241	hypothetical protein	12.8858	28.5932	1.14988998	22.4308	15.5865	-0.525184073
DR_2242	thiol-specific antioxidant protein	28.6367	80.9173	1.498582931	37.8818	22.9846	-0.720837325
DR_2243	phosphate transport system regulatory protein PhoU	14.1924	50.1902	1.822287119	30.2696	22.6142	-0.420640651
DR_2244	sensory transduction histidine kinase	4.30648	12.0842	1.48854093	2.69567	6.8949	1.354885733
DR_2245	phosphate regulon transcriptional regulatory protein PhoB	10.159	11.6781	0.201047173	6.22485	14.1248	1.182119462
DR_2246	hypothetical protein	8.04957	21.0913	1.389664398	8.72562	15.5556	0.834104492
DR_2247	hypothetical protein	12.6534	33.0373	1.384570693	73.396	15.3231	-2.259993243
DR_2248	dipeptidyl peptidase IV-like protein	8.20106	21.9419	1.41980616	17.0902	14.0815	-0.279368258
DR_2249	protein serine-threonine phosphatase	6.58448	13.3511	1.019817195	11.0672	9.54444	-0.213557809
DR_2250	methoxynurosporene dehydrogenase	15.9615	33.3289	1.062177466	26.7483	18.83	-0.506414203
DR_2251	hypothetical protein	1022.79	172.506	-2.567791513	460.225	100.081	-2.201171245

DR_2252		2.34E-23	5.45E-41	-58.57495801	7.74E-05	1.29E-08	-12.55074679
DR_2253	hypothetical protein	8.02188	18.8768	1.234601929	10.3985	11.2598	0.11480577
DR_2254	hypothetical protein	13.4768	28.4514	1.078021668	17.7515	21.99	0.308906667
DR_2255	hypothetical protein	1.6437	12.7418	2.954550183	0.930482	12.6619	3.766371855
DR_2256	transketolase	256.593	191.089	-0.425237081	231.949	87.3022	-1.409717711
DR_2257	erythromycin esterase	16.8186	42.108	1.324036735	5.94449	27.4472	2.207034035
DR_2258	hypothetical protein	4.70697	27.0883	2.524799293	4.78477	23.216	2.278597942
DR_2259	transcriptional regulator	3.8738	21.5579	2.476395273	23.529	5.2727	-2.157826187
DR_2260	signal recognition particle-docking protein FtsY	53.9087	80.0709	0.570759903	103.555	37.1603	-1.47856316
DR_2261	aldo/keto reductase	64.6089	78.8643	0.287639462	31.8542	42.6066	0.419593324
DR_2262	hypothetical protein	8.89645	16.8583	0.922157392	4.5021	19.4606	2.111886184
DR_2263	Dps family DNA-binding stress response protein	2487.09	322.012	-2.949272358	434.461	213.534	-1.024760876
DR_2264	zinc metallohydrolase	27.1421	31.7035	0.224109772	28.8605	28.3188	-0.027336161
DR_2265	hypothetical protein	16.77	45.4491	1.438369037	22.1415	27.5651	0.316089873
DR_2266	hypothetical protein	1.11364	16.6453	3.901760031	8.32987	18.9621	1.186752862
DR_2267	DNA modification methyltransferase-like protein	3.75945	20.5388	2.449758374	7.85065	15.6625	0.996430497
DR_2268	class I aminotransferase	17.5879	10.9951	-0.677722509	13.2518	10.5555	-0.328193416
DR_2269	molybdopterin biosynthesis MoeB	7.00351	9.80602	0.485589555	10.1253	7.40902	-0.450610021
DR_2270	membrane protein	6.08594	38.3589	2.656009334	16.2615	17.7477	0.126171731
DR_2271	hypothetical protein	6.20537	14.8573	1.259582821	4.99234	9.39581	0.912301348
DR_2272	MutT/nudix family protein	9.97573	15.78	0.661602882	5.83368	11.2618	0.948959279
DR_2273	DNA topology modulation protein FlaR-like protein	7.83049	20.6695	1.400328997	14.8781	13.0413	-0.19010261
DR_2274	hypothetical protein	6.72832	28.8855	2.10202724	2.30173	14.3417	2.639425529
DR_2275	excinuclease ABC subunit B	60.803	261.658	2.105467956	38.2073	107.064	1.486553244
DR_2276	hypothetical protein	31.6217	223.872	2.823687265	0	303.222	#DIV/0!
DR_2277	amino acid ABC transporter permease	11.5498	69.4395	2.58788869	12.3822	39.4297	1.671015066
DR_2278	amino acid ABC transporter periplasmic amino acid-binding protein	121.053	137.695	0.18583734	93.4767	75.184	-0.314181131
DR_2279	zinc-containing alcohol dehydrogenase	7.22086	19.7619	1.452479084	8.49349	16.8194	0.985696853
DR_2280	uracil permease	42.7674	17.3933	-1.297979824	125.198	23.5553	-2.410087904
DR_2281	hypothetical protein	4.14443	9.3032	1.166553346	2.08663	13.5646	2.700599795
DR_2282	hypothetical protein	4.55133	13.3725	1.554909104	0	7.0769	#DIV/0!
DR_2283	manganese ABC transporter permease	11.9166	22.939	0.94482983	16.0498	12.5652	-0.353121685
DR_2284	manganese ABC transporter ATP-binding protein	54.5006	46.9663	-0.21464617	157.254	26.2865	-2.580702747
DR_2285	A/G-specific adenine glycosylase	10.9677	26.8229	1.29020421	8.14471	15.0219	0.883132063
DR_2286	hypothetical protein	75.875	128.812	0.763570483	36.7495	51.9637	0.499779538
DR_2287	AsnC family transcriptional regulator	188.008	289.767	0.624099252	540.819	119.344	-2.1800198
DR_2288	hypothetical protein	67.0219	32.4996	-1.044210624	35.6083	22.6629	-0.651881077
DR_2289	guanylate kinase	26.1819	43.7535	0.740828632	28.3581	18.5068	-0.615705414
DR_2290	pseudouridylate synthase I	6.8414	16.3469	1.256653583	12.1564	10.4186	-0.222554623
DR_2291	cell wall glycyl-glycine endopeptidase	2.72517	19.8004	2.86111144	4.57396	11.4189	1.319908026
DR_2292	hypothetical protein	17.9219	25.3935	0.502735663	21.4998	21.8223	0.021479926

DR_2293	hypothetical protein	3.02451	12.9226	2.095123031	7.68546	11.0054	0.518008064
DR_2294	periplasmic divalent cation tolerance protein	283.193	366.57	0.372303116	561.241	119.018	-2.237440625
DR_2295	hypothetical protein	73.8551	170.803	1.209563861	119.041	56.3832	-1.078121286
DR_2296	glucokinase	37.9745	28.7372	-0.402111469	25.2311	18.8991	-0.416885572
DR_2297	hypothetical protein	12.1437	25.6946	1.081257137	10.3456	10.7315	0.052834426
DR_2298	hypothetical protein	50.4862	57.4174	0.185598911	55.8293	21.6629	-1.365796079
DR_2299	GGDEF family protein	22.025	48.6272	1.142621503	23.0817	28.9026	0.324449795
DR_2300	alanyl-tRNA synthetase	147.546	105.374	-0.48564587	89.663	52.2123	-0.780123059
DR_2301	hypothetical protein	22.4059	57.1709	1.351402324	25.7826	30.3159	0.233676896
DR_2302	hypothetical protein	7.83049	30.5736	1.965111944	6.37635	17.6442	1.468391292
DR_2303	chloramphenicol acetyltransferase	17.6112	38.6451	1.133792284	26.335	17.8106	-0.564245341
DR_2304	hypothetical protein	2.58205	11.3683	2.138427689	3.34433	9.13921	1.450352251
DR_2305	hypothetical protein	4.09824	49.5745	3.596521843	5.11941	22.0031	2.103657341
DR_2306	MerR family transcriptional regulator	23.0881	79.1345	1.777157345	77.2969	81.0448	0.068309067
DR_2307	multidrug-efflux transporter putative	88.6061	21.4504	-2.046401472	1082.65	19.2274	-5.815259423
DR_2308	GTP-binding protein EngA	498.364	1335.49	1.422097411	158.43	552.049	1.800950779
DR_2309	hypothetical protein	21.8822	47.5319	1.11913828	22.357	18.3664	-0.28365774
DR_2310	hypothetical protein	23.1744	61.5065	1.408206895	10.2867	30.9149	1.587522103
DR_2311	hypothetical protein	5.21133	15.1764	1.54210609	4.41839	11.0581	1.323510851
DR_2312	carbohydrate kinase	26.2002	12.5277	-1.064456255	31.9857	12.5771	-1.34662775
DR_2313	hypothetical protein	50.4912	23.2313	-1.119962077	80.3696	21.4906	-1.902944139
DR_2314	hypothetical protein	67.1605	61.3463	-0.130636638	145.727	28.2716	-2.365842763
DR_2315	hypothetical protein	54.032	31.2497	-0.789971745	46.1679	19.7999	-1.221396967
DR_2316	ABC transporter ATP-binding protein	22.2789	31.7172	0.509587413	15.9271	20.0683	0.333434805
DR_2317	potassium channel subunit beta	87.6732	100.942	0.203318765	106.981	49.0617	-1.124685465
DR_2318	hypothetical protein	102.449	204.594	0.997857934	127.823	165.035	0.368624565
DR_2319	hypothetical protein	26.5326	73.8428	1.476691203	8.27321	48.016	2.536996116
DR_2320	hypothetical protein	35.2012	68.5911	0.962396782	10.9994	50.5883	2.20137893
DR_2321	phenylacetic acid degradation protein PaaI	13.991	22.1954	0.665761627	29.9623	11.6471	-1.363177589
DR_2322	serine protease	6.90199	21.9871	1.671573043	13.6964	21.5722	0.655376574
DR_2323	transposase	57.0698	92.6178	0.698561981	91.2517	101.345	0.151351572
DR_2324	transposase	25.7036	37.2148	0.533906048	14.897	22.4663	0.592740719
DR_2325	serine protease	19.5762	25.5056	0.381713294	15.2587	16.5139	0.11404882
DR_2326	hypothetical protein	32.5388	75.5992	1.216209921	34.1076	37.3215	0.129913729
DR_2327	response regulator	18.425	57.0868	1.631492575	31.7497	33.7776	0.089323864
DR_2328	sensor histidine kinase	2.59011	15.4867	2.579944484	3.06246	10.3927	1.762807606
DR_2329	hypothetical protein	19.3599	32.2549	0.736446843	21.8319	22.3463	0.033598285
DR_2330	ferredoxin	1040.43	1037.04	-0.004708362	1521.26	355.024	-2.099278286
DR_2331	hypothetical protein	13.1202	180.828	3.784756469	10.3578	55.6794	2.426426058
DR_2332	DNA polymerase III subunit	2.0237	48.2022	4.574031653	4.28572	18.6206	2.119290058
DR_2333	NADH oxidase-like protein	6.81503	16.2416	1.25290185	4.58801	12.3468	1.428196737
DR_2334	hypothetical protein	37.4191	38.5145	0.041626837	31.6962	21.1133	-0.5861578

DR_2335	hypothetical protein	26.7118	45.8783	0.780334737	42.6275	21.909	-0.960260811
DR_2336	potassium channel	10.9172	26.3905	1.273415798	15.4867	16.1556	0.061004573
DR_2337	hypothetical protein	3.52229	6.28658	0.835761686	2.06775	12.6989	2.618569861
DR_2338	cinA protein	36.6981	1228.17	5.064661087	32.6777	467.609	3.838924349
DR_2339	2'-5' RNA ligase	46.322	1268.85	4.775680173	50.9088	622.963	3.613159514
DR_2340	recombinase A	62.2963	1993.23	4.999817904	51.83	840.683	4.019702601
DR_2341	birA bifunctional protein	40.7492	75.5237	0.89015771	117.608	36.4652	-1.689393987
DR_2342	hypothetical protein	39.2533	91.6763	1.223734873	212.585	51.9267	-2.033491355
DR_2343	hypothetical protein	43.614	157.782	1.855069414	42.1775	69.8018	0.726790656
DR_2344	hypothetical protein	16771	5145.79	-1.704504228	2822.01	2560.62	-0.14022993
DR_2345	hypothetical protein	15.044	27.0287	0.845303913	12.7667	18.1158	0.504862859
DR_2346	class II aminotransferase	17.4679	36.0904	1.046908956	34.6177	14.6219	-1.243379085
DR_2347	hypothetical protein	10.2145	44.7872	2.132467889	12.3474	16.0723	0.380369114
DR_2348	hypothetical protein	7.31168	35.8421	2.293380331	13.5821	16.4404	0.275538841
DR_2349	hypothetical protein	16.4715	53.897	1.71023303	18.0209	22.1775	0.29942568
DR_2350	hypothetical protein	20.9266	36.8122	0.81484604	18.223	17.6473	-0.046313014
DR_2351	hypothetical protein	15.0858	27.6564	0.87442217	14.6611	21.0605	0.522546337
DR_2352	porphobilinogen deaminase	31.7452	226.064	2.832120893	78.9861	94.79	0.263136078
DR_2353	L-asparaginase	12.2455	17.0971	0.481499955	15.6188	8.34872	-0.903656685
DR_2354	phenylalanyl-tRNA synthetase subunit alpha	65.9902	92.3105	0.484242969	43.3567	50.2999	0.214300579
DR_2355	acetyltransferase	43.3706	69.2292	0.674663275	36.7404	47.1139	0.358785427
DR_2356	MutT/nudix family protein	44.9788	56.7028	0.334174806	12.7629	43.0108	1.752742789
DR_2357	phenylalanyl-tRNA synthetase subunit beta	51.3928	73.2088	0.510450821	53.7052	42.6681	-0.331903915
DR_2358	hypothetical protein	18.1679	30.9111	0.766733324	20.4377	17.0394	-0.262358313
DR_2359	hypothetical protein	12.9686	38.4784	1.569026066	13.5921	26.7341	0.975912738
DR_2360	hypothetical protein	26.4272	28.6305	0.115529288	37.6128	30.4642	-0.304108853
DR_2361	acyl-CoA dehydrogenase	393.14	1129.82	1.522977881	567.012	313.547	-0.854697552
DR_2362	transcriptional regulator	75.6994	155.934	1.042581759	89.3109	93.7232	0.069569952
DR_2363	hypothetical protein	53.3305	75.8852	0.508857688	58.4748	39.059	-0.582160009
DR_2364	L-lactate dehydrogenase	63.9159	45.2895	-0.496998255	35.7069	28.2916	-0.335829118
DR_2366	50S ribosomal protein L32	1192.65	9138.15	2.937731398	2591.49	3761.4	0.537487909
DR_2367	glutathione-regulated potassium-efflux system protein KefB	31.5118	21.1523	-0.575077622	78.9871	20.4923	-1.946535137
DR_2368	hypothetical protein	4.53702	17.3933	1.938714754	7.11721	12.4681	0.808857921
DR_2369	hypothetical protein	21.1641	120.542	2.509844862	13.6406	79.4076	2.541369988
DR_2370	pyruvate dehydrogenase complex, dihydrolipoamide dehydrogenase E3 component	54.9625	165.8	1.592924474	105.208	73.5428	-0.516588401
DR_2371	hypothetical protein	50.342	124.62	1.307701184	208.499	91.492	-1.188322959
DR_2372	peptidyl-tRNA hydrolase	49.9073	90.4453	0.857794679	85.4065	45.1968	-0.918125241
DR_2373	hypothetical protein	136.139	164.938	0.276843401	112.087	67.0488	-0.741335545
DR_2374	ribonucleoside-diphosphate reductase-like protein	43.5434	138.151	1.665720038	36.3478	93.4581	1.362451662
DR_2375	transcription elongation factor	6.62247	25.2817	1.932652169	14.2245	11.6154	-0.292339105

DR_2376	TetR family transcriptional regulator	48.9627	501.529	3.356578103	33.6697	167.463	2.314319604
DR_2377	hypothetical protein	1216.49	932.706	-0.383230158	1013.05	283.658	-1.836480923
DR_2378	hypothetical protein	29.8388	51.705	0.793114282	52.2149	25.8882	-1.012166893
DR_2379	ABC transporter ATP-binding protein	24.9883	63.2326	1.339415786	45.3811	37.2947	-0.283120957
DR_2380	hypothetical protein	45.2331	21.4052	-1.079417557	149.828	19.7783	-2.921316928
DR_2381	bifunctional aldehyde dehydrogenase/enoyl-CoA hydratase	48.2012	23.893	-1.012481054	33.2603	20.8792	-0.671734746
DR_2382	hypothetical protein	522.265	53.1793	-3.295845331	68.4855	92.8721	0.439446689
DR_2383	phenylacetic acid degradation protein PaaD	595.876	94.2891	-2.659849234	284.866	81.5866	-1.803879315
DR_2384	phenylacetic acid degradation protein PaaC	968.325	75.3751	-3.683331426	281.582	62.6999	-2.167020066
DR_2385	phenylacetic acid degradation protein PaaB	746.36	75.356	-3.308077377	294.193	59.0231	-2.317411319
DR_2386	phenylacetate-CoA oxygenase subunit PaaA	2826.34	388.066	-2.864561084	2605.18	186.287	-3.805784152
DR_2387	S-ribosylhomocysteinase	304.524	447.87	0.556524099	532.024	124.136	-2.099569764
DR_2388	lipoprotein signal peptidase	77.464	212.659	1.456944008	125.537	137.515	0.131476357
DR_2389	transglycosylase associated protein	6704.49	1071.43	-2.645589996	2601.72	868.155	-1.583441157
DR_2390	homoserine kinase	26.1245	43.2754	0.728143729	24.4264	18.3072	-0.416030098
DR_2391	hypothetical protein	518.137	191.812	-1.43364063	300.187	87.6382	-1.776229742
DR_2392	hypothetical protein	2.68273	5.4372	1.019162033	4.45921	5.69552	0.353039423
DR_2393	hypothetical protein	9.97843	20.5862	1.044792802	30.2135	14.4826	-1.060872692
DR_2394	N-acetylmuramoyl-L-alanine amidase	48.966	137.79	1.492618936	169.79	51.5048	-1.720972696
DR_2395	Na ⁺ /H ⁺ antiporter	34.5765	35.3816	0.03320745	122.839	18.8446	-2.704545595
DR_2396	TetR family transcriptional regulator	63.3221	375.013	2.566159602	87.5678	115.326	0.39724543
DR_2397	5'/3'-nucleotidase SurE	14.1118	67.0692	2.248748374	13.9098	35.3398	1.345192199
DR_2398	hypothetical protein	14.4916	43.4443	1.583950014	14.1322	22.8703	0.694489219
DR_2399	hypothetical protein	6.2331	22.6242	1.859845015	5.91127	13.0619	1.143824745
DR_2400	hypothetical protein	32.5754	32.0339	-0.024183443	17.6748	16.7957	-0.073601966
DR_2401	hypothetical protein	7.41632	16.8212	1.181505229	5.96802	17.0037	1.510524435
DR_2402	hypothetical protein	4.25138	21.3553	2.328591043	3.95312	12.4956	1.660356522
DR_2403	hypothetical protein	4.12698	19.9505	2.273266552	5.28802	16.4331	1.635805123
DR_2404	ABC transporter ATP-binding protein	5.5604	24.5462	2.142239123	12.2393	14.6432	0.258709814
DR_2405	ubiquinone/menaquinone biosynthesis methyltransferase	52.1531	90.9354	0.802089017	71.0463	47.5352	-0.579763287
DR_2406	comA protein	61.8461	116.006	0.907444898	122.441	34.6893	-1.819524099
DR_2407	hypothetical protein	608.508	174.554	-1.801602813	429.367	77.2598	-2.474421466
DR_2408	cobW protein	20.565	14.075	-0.54705615	21.5093	9.1865	-1.227373361
DR_2409	hypothetical protein	902.667	244.65	-1.883474583	748.858	117.993	-2.665990904
DR_2410	DNA polymerase III, tau/gamma subunit	24.411	160.939	2.720910672	29.7473	73.89	1.3126204
DR_2411	hypothetical protein	12.3692	65.53	2.405403337	13.1187	48.092	1.874172162
DR_2412	hypothetical protein	5.86406	47.2531	3.010437209	13.0641	23.888	0.870678331
DR_2413	chromate transport protein	2.94554	13.4035	2.186005725	1.98336	8.79031	2.147967479
DR_2414	hypothetical protein	48.4862	81.6784	0.752380415	149.35	35.3421	-2.079237566
DR_2415	DNA-binding response regulator	90.9309	108.56	0.255650089	41.5368	67.7025	0.704819033
DR_2416	sensor histidine kinase	4.70808	25.779	2.452985561	5.44483	15.7143	1.529119098

DR_2418	DNA-binding response regulator	7.28454	121.922	4.064976791	10.3673	33.4626	1.690509329
DR_2419	sensory box sensor histidine kinase	4.25133	40.2905	3.244453555	10.7803	18.7613	0.799362471
DR_2420	response regulator	58.2862	292.368	2.326559163	65.9747	114.078	0.790035804
DR_2421	hypothetical protein	14.0333	83.724	2.576786934	19.7348	29.3202	0.571153046
DR_2422	large conductance mechanosensitive channel	211.892	417.826	0.97957315	294.951	254.962	-0.210193059
DR_2423	carboxypeptidase	15.6586	18.4801	0.239017333	29.0285	10.9354	-1.408464032
DR_2425	hypothetical protein	475.186	454.618	-0.063837525	424.412	267.709	-0.664799807
DR_2427	hypothetical protein	127.748	467.37	1.871264427	200.945	393.36	0.96904958
DR_2428	bifunctional nicotinamide mononucleotide adenylyltransferase/ADP-ribose pyrophosphatase	11.1647	10.4572	-0.094447876	10.2221	6.37659	-0.680834583
DR_2429	hypothetical protein	0	0	#DIV/0!	0	0	#DIV/0!
DR_2430	hypothetical protein	9.15043	45.2373	2.305601379	3.86504	26.7899	2.793133946
DR_2431	hypothetical protein	8.73464	28.9309	1.727791056	7.49927	17.3207	1.207675165
DR_2432	hypothetical protein	13.7453	26.2115	0.931261522	3.8563	16.0564	2.057859268
DR_2433	nitrilase-like protein	12.6783	32.4896	1.357616671	15.3248	17.2534	0.171012445
DR_2434	peptide deformylase	62.5548	166.871	1.415540759	37.3249	56.959	0.609785423
DR_2435	methionyl-tRNA formyltransferase	13.5553	96.609	2.833300553	21.6726	31.9148	0.558353367
DR_2436	hypothetical protein	9.69593	75.3637	2.958418608	34.5785	36.3518	0.072151516
DR_2437	hypothetical protein	9.60084	39.0384	2.023661384	23.5082	27.0267	0.20122129
DR_2438	endonuclease III	394.896	255.594	-0.627618785	129.582	138.871	0.099880027
DR_2439	hypothetical protein	584.001	457.211	-0.353110726	413.274	197.078	-1.068331867
DR_2440	nifR3 protein	53.8717	98.0859	0.864518169	107.873	51.6105	-1.063597299
DR_2441	hypothetical protein	300.191	1835.23	2.612008251	565.776	696.349	0.299579566
DR_2442	acetylglutamate/acetylaminoadipate kinase	32.9351	88.6038	1.427742643	35.2361	43.0332	0.288395872
DR_2443	ribosomal protein N-acetyltransferase	74.7653	52.6016	-0.50726216	26.0623	35.9658	0.464661287
DR_2444	HRDC family nucleic acid-binding protein	39.0275	33.1462	-0.235647566	20.4043	14.9757	-0.446249778
DR_2445	hypothetical protein	276.721	124.364	-1.153863207	193.07	60.1536	-1.682401024
DR_2446	hypothetical protein	285.103	93.2518	-1.612279742	117.083	55.0178	-1.089561261
DR_2447	undecaprenyl pyrophosphate synthase	22.788	46.4837	1.028450597	17.6639	31.6594	0.841830004
DR_2448	MerR family transcriptional regulator	20.2267	19.0369	-0.087462395	12.1564	19.3488	0.670528042
DR_2449	hypothetical protein	83.9555	71.9879	-0.221870407	4.75628	29.7545	2.645202321
DR_2450	hypothetical protein	86.8536	45.8856	-0.920544176	15.7573	25.4273	0.690357926
DR_2451	hypothetical protein	620.577	120.537	-2.364134165	94.8405	55.1184	-0.782969259
DR_2452	hypothetical protein	294.692	210.757	-0.483627347	216.212	65.2594	-1.728188968
DR_2453	cation-transporting ATPase	393.542	51.4271	-2.935916906	327.967	35.5463	-3.205779355
DR_2454	PbsX family transcriptional regulator	32.9319	38.1926	0.213807386	0	89.6643	#DIV/0!
DR_2455	hypothetical protein	65.5234	54.9834	-0.253014099	32.0602	60.2309	0.909720391
DR_2456	hypothetical protein	27.669	37.5272	0.439666147	28.8568	28.6541	-0.010169742
DR_2457	hypothetical protein	8.01845	13.7022	0.773012258	2.61081	14.9624	2.51877223
DR_2458	hypothetical protein	4.88658	38.0187	2.959812186	32.0874	19.6919	-0.704404576
DR_2459	oxidoreductase	12.4609	49.0713	1.97747122	59.0746	15.7745	-1.904943678
DR_2460	hypothetical protein	20.629	38.2771	0.891807643	49.7013	14.7969	-1.74798863

DR_2461	histidinol-phosphate aminotransferase	42.6047	27.4546	-0.6339647	60.3661	14.0193	-2.106324282
DR_2462	hypothetical protein	97.1884	66.3584	-0.550505029	248.045	41.7114	-2.572088235
DR_2463	transport protein	810.542	112.086	-2.854280853	227.987	50.6049	-2.171602572
DR_2464	FKBP-type peptidyl-prolyl cis-trans isomerase	559.751	210.973	-1.407726824	335.551	78.7786	-2.090656373
DR_2465	serine-pyruvate aminotransferase	24.6367	45.9701	0.899886779	28.1565	22.8629	-0.3004596
DR_2466	hypothetical protein	13.8592	28.3405	1.032021229	11.9195	12.1026	0.021993296
DR_2467	hypothetical protein	3.43506	25.3081	2.881191998	0	19.6528	#DIV/0!
DR_2468	hypothetical protein	1.14714	12.63	3.460741262	0	7.82364	#DIV/0!
DR_2469	ABC transporter ATP-binding protein	3.87127	19.1386	2.305606463	3.33028	20.4484	2.618272578
DR_2470	biotin synthase	12.9455	26.6845	1.043551291	23.5656	27.2839	0.211367466
DR_2471	acetyl-CoA synthetase	15.2015	55.816	1.876465051	23.0514	47.1721	1.033079454
DR_2472	hypothetical protein	26.1198	108.05	2.048483317	29.9327	83.7201	1.483851616
DR_2473	cytochrome P450	2.49043	19.7655	2.988517685	4.19761	13.9445	1.732056168
DR_2474	hypothetical protein	12.9151	25.1463	0.961287325	10.3388	29.1328	1.494575623
DR_2475	hypothetical protein	5.97366	15.3749	1.363889995	10.977	10.5248	-0.060691003
DR_2476	hypothetical protein	33.192	26.6986	-0.314071469	104.92	23.4337	-2.162633045
DR_2478	hypothetical protein	108.599	451.62	2.056098559	33.6955	382.042	3.503103412
DR_2479	hypothetical protein	536.9	864.293	0.686867072	36.0267	1095.55	4.92644501
DR_2480	acetyl-CoA acetyltransferase	89.4048	391.046	2.128914132	23.2064	191.983	3.048383926
DR_2481	hypothetical protein	41.1655	33.7865	-0.284988842	18.5566	27.5431	0.569758546
DR_2482	hypothetical protein	3.45047	16.0561	2.218256712	2.62842	13.4251	2.352665104
DR_2483	hypothetical protein	28.8135	38.2614	0.409144747	21.1928	29.9489	0.498928805
DR_2484	WD repeat-containing protein	13.5458	22.1681	0.710639524	11.8252	20.9075	0.822155979
DR_2485	hypothetical protein	22.2035	38.2792	0.785773569	49.4871	21.5125	-1.201877309
DR_2486	hypothetical protein	13.6244	19.1595	0.491867215	22.1882	21.1171	-0.071380911
DR_2487	cytochrome C4	15.6107	41.6278	1.415012084	23.5656	25.3693	0.106401298
DR_2488	ABC transporter permease	1.48128	5.4916	1.890382173	2.48	6.24463	1.332275973
DR_2489	hypothetical protein	13.5421	51.7474	1.9340349	22.7059	31.4073	0.468032701
DR_2490	hypothetical protein	13.5741	18.4869	0.445646778	12.2494	11.6596	-0.071192789
DR_2491	hypothetical protein	19.3575	30.0744	0.635643313	86.8571	17.5175	-2.309846888
DR_2493	carboxypeptidase G2	42.0618	33.937	-0.309651553	61.5398	13.6238	-2.175390594
DR_2494	DNA-directed RNA polymerase subunit omega	12656.3	3352.67	-1.91647331	22470.3	1447.42	-3.956463869
DR_2495	phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase	19.5923	72.861	1.894860026	21.1645	36.451	0.784311988
DR_2496	UDP-N-acetylmuramoylalanine--D-glutamate ligase	17.7531	54.3084	1.613104394	16.457	40.5106	1.299598087
DR_2497	cell cycle protein FtsW	33.1606	87.7521	1.40396354	61.3453	56.4555	-0.119838677
DR_2498	GGDEF family protein	10.7674	250.547	4.540339433	18.9406	90.2441	2.252350581
DR_2499	nucleoside diphosphate kinase	126.541	456.622	1.851395468	249.4	125.954	-0.985564526
DR_2500	hypothetical protein	4.40784	15.3429	1.799427434	4.4582	4.81938	0.112386221
DR_2501	transcriptional regulator, sugar-binding	15.1072	21.9537	0.539227814	9.75204	11.6203	0.252871367
DR_2502	transport protein	2.12545	16.9721	2.997324858	7.67767	13.7975	0.845666429

DR_2503	prolyl endopeptidase	7.5947	15.0685	0.988470928	7.95692	11.9448	0.586100699
DR_2504	hypothetical protein	28.3939	28.6927	0.015102711	13.5295	24.0724	0.831271461
DR_2505	hypothetical protein	17.3845	53.9088	1.632719222	23.3315	19.9853	-0.223339833
DR_2506	ferric enterobactin esterase-like protein	27.7257	37.3899	0.431424728	22.6472	12.3791	-0.871426263
DR_2507	medium-chain fatty acid--CoA ligase	25.5142	96.5317	1.91970238	21.9578	37.6638	0.77844505
DR_2508	hexagonally packed intermediate-layer surface protein	6490.52	7095.58	0.128586549	1294.7	3545.61	1.453416011
DR_2509	hypothetical protein	21.7822	81.9041	1.910785999	64.4499	40.0291	-0.687128941
DR_2510	enoyl-CoA hydratase	41.6469	49.2383	0.24157184	46.6893	37.0998	-0.331680549
DR_2511	hypothetical protein	95.15	265.493	1.480398262	75.9792	131.12	0.787211333
DR_2512	protein translation inhibitor	227.978	173.625	-0.392919916	300.899	57.3992	-2.390176777
DR_2513	hypothetical protein	32.6187	58.5651	0.844341907	58.1581	31.885	-0.867102257
DR_2514	hypothetical protein	18.4469	54.8907	1.573183346	32.75	39.7564	0.279692218
DR_2515	zinc protease	4.12602	31.8888	2.950227089	1.39068	12.8338	3.206086011
DR_2516	hypothetical protein	4.22662	35.161	3.056399786	2.8508	13.9397	2.289760778
DR_2517	hypothetical protein	29.7059	37.353	0.330474619	38.2702	17.0428	-1.167059062
DR_2518	DNA damage-responsive serine/threonine-protein kinase RqkA	10.9407	32.4704	1.569420111	20.1037	16.2988	-0.302695298
DR_2519	MerR family transcriptional regulator	5.19014	22.7845	2.134207352	15.7358	20.1259	0.355002773
DR_2520	hypothetical protein	119.035	77.8372	-0.612854114	169.805	42.853	-1.986410829
DR_2521	hypothetical protein	541.951	177.462	-1.610652285	439.301	90.446	-2.280081178
DR_2522	lipase	7.17001	26.7108	1.89737615	9.91222	23.541	1.247895493
DR_2524	50S ribosomal protein L28	1707.64	9225.64	2.433645135	1813.38	3977.24	1.133086343
DR_2525	C4-dicarboxylate transport protein	34.161	41.9402	0.295983533	119.098	24.6144	-2.274574708
DR_2526	dihydrolipoamide dehydrogenase	275.209	309.624	0.169989654	170.704	149.185	-0.194394379
DR_2527	hypothetical protein	1360.12	834.041	-0.705543732	566.49	402.913	-0.491582134
DR_2528	hypothetical protein	485.417	129.987	-1.900857288	131.392	94.2705	-0.478999153
DR_2529	hypothetical protein	234.617	101.47	-1.209254301	45.4394	70.6231	0.636196365
DR_2530	hypothetical protein	391.77	243.213	-0.687786582	149.599	144.4	-0.051029789
DR_2531	thiosulfate sulfurtransferase	50.8054	21.4437	-1.244427989	43.9879	15.4259	-1.511752064
DR_2532	hypothetical protein	33.5013	14.7827	-1.180307284	38.871	27.329	-0.508261552
DR_2533	hypothetical protein	22.0314	10.801	-1.028396286	14.2505	4.9399	-1.528458797
DR_2534	grpB protein	7.37057	11.8254	0.682040885	11.9802	14.9227	0.316856597
DR_2535	hydrolase	139.172	131.294	-0.084067997	182.747	51.6115	-1.824083257
DR_2536	putative sulfite oxidase subunit YedY	11.9205	43.3172	1.861495241	14.16	28.5884	1.013608614
DR_2537	putative sulfite oxidase subunit YedZ	4.02321	23.3218	2.535260192	12.3916	10.1554	-0.287115414
DR_2538	cytochrome P450	34.6595	29.9565	-0.210381767	19.9744	19.7571	-0.015780968
DR_2539	iron dependent repressor	56.1869	66.381	0.240536558	95.2429	39.5418	-1.268233003
DR_2540	hypothetical protein	27.4823	41.6804	0.600866374	35.697	17.2356	-1.050411312
DR_2541	hypothetical protein	52.7582	118.507	1.16750503	27.9777	58.1344	1.05511474
DR_2542	cyclophilin-type peptidyl-prolyl cis-trans isomerase	95.0558	182.83	0.943656254	20.6859	103.57	2.323886541
DR_2543	cytidylate kinase	3.28255	26.0355	2.987591222	3.75538	18.7815	2.322281486
DR_2544	hypothetical protein	1070.81	339.092	-1.658953864	138.475	303.753	1.133273119

DR_2545	hypothetical protein	519.599	223.333	-1.218202213	281.41	178.205	-0.65913578
DR_2546	hypothetical protein	2.41334	13.4355	2.476946925	5.48599	7.32816	0.417699011
DR_2547	glutamyl-tRNA reductase	238.597	321.565	0.430534485	357.903	164.444	-1.121972267
DR_2548	hypothetical protein	145.284	517.13	1.831651173	189.27	237.956	0.330249076
DR_2549	epoxide hydrolase-like protein	45.604	31.9405	-0.513773474	57.2374	21.0208	-1.445140564
DR_2550	hypothetical protein	15.9042	34.7593	1.127991224	15.6209	16.1838	0.051072819
DR_2551	hypothetical protein	113.14	30.5434	-1.889176503	69.6274	13.3724	-2.380396737
DR_2552	hypothetical protein	4.91754	73.219	3.896209377	8.70945	37.0624	2.089302786
DR_2553	carbohydrate kinase	21.7777	59.6119	1.452748762	50.6732	30.9339	-0.712034205
DR_2554	hypothetical protein	14.2549	42.7951	1.5859877	16.3672	15.4457	-0.08360228
DR_2555	aspartyl/glutamyl-tRNA amidotransferase subunit B	61.0889	96.229	0.655561474	61.6777	36.0192	-0.775982828
DR_2556	response regulator	47.3762	74.2589	0.648401459	77.3252	29.3742	-1.396389099
DR_2557	hypothetical protein	35.4713	43.7732	0.30339565	21.3516	25.4557	0.253644555
DR_2558	hypothetical protein	16.522	26.4266	0.677602486	51.7742	7.29774	-2.826711699
DR_2559	hypothetical protein	349.962	180.972	-0.951431777	339.611	128.559	-1.401452576
DR_2560	hypothetical protein	641.191	172.787	-1.891759498	259.593	108.156	-1.26313778
DR_2561	hypothetical protein	132.73	66.3822	-0.999626141	331.27	45.1085	-2.87653634
DR_2562	3-demethylubiquinone-9 3-methyltransferase	14.8167	23.0195	0.635632333	27.1446	14.2908	-0.925578544
DR_2563	hypothetical protein	4434.93	1374.3	-1.690214365	1402.34	1105.7	-0.342876171
DR_2564	hypothetical protein	5.59411	17.5328	1.648075886	4.2402	10.1161	1.254448984
DR_2565	iron-sulfur binding reductase	150.085	122.071	-0.298059292	137.141	80.418	-0.770069585
DR_2566	hypothetical protein	24.0454	23.2671	-0.047469521	8.05239	20.3807	1.339714651
DR_2567	N-acetylmuramoyl-L-alanine amidase-like protein	10.2687	22.2777	1.117346743	10.2574	15.1234	0.560117429
DR_2568	arginyl-tRNA synthetase	32.3197	82.225	1.347163296	16.8882	30.5458	0.854958456
DR_2569	hypothetical protein	27.0382	82.6854	1.6126335	42.402	57.9728	0.451243852
DR_2570	hypothetical protein	81.1646	102.785	0.340707202	43.4527	42.3605	-0.036726206
DR_2571	molybdenum cofactor biosynthesis protein MoaC	83.0138	66.1275	-0.328100826	18.1179	54.5911	1.591250021
DR_2572	hypothetical protein	56.6629	239.901	2.081962826	26.9021	157.035	2.545295443
DR_2573	hypothetical protein	19.6973	275.896	3.808054749	13.9862	170.332	3.606273551
DR_2574	transcriptional regulator	130.198	11213.2	6.428346953	250.657	4038.38	4.009990241
DR_2576	putative manganese-dependent inorganic pyrophosphatase	262.706	297.866	0.181214305	437.495	89.7483	-2.285310012
DR_2577	S-layer protein	4806.54	3697.44	-0.378472004	1268.11	2085.7	0.717851765
DR_2578	queueine tRNA-ribosyltransferase	45.7458	258.36	2.497671527	38.35	171.676	2.162389884
DR_2580	hypothetical protein	250.459	674.944	1.430193353	484.872	333.954	-0.53795455
DR_2581	LytR/CspA/Psr family protein	21.2749	170.353	3.001303098	35.1406	75.0893	1.095468518
DR_2582	hypothetical protein	30.6247	95.3281	1.638205831	54.275	40.048	-0.438557625
DR_2583	malate dehydrogenase	38.5145	40.273	0.064411249	37.9583	24.5802	-0.626918727
DR_2584	DNA-3-methyladenine glycosidase II	9.34321	33.3116	1.83403445	12.0593	14.2003	0.235775243
DR_2585	hypothetical protein	24.0874	34.7701	0.529568539	31.818	21.8829	-0.540039212
DR_2586	hypothetical protein	64.5187	36.6795	-0.814743397	93.1657	29.0964	-1.678958244
DR_2587	hypothetical protein	18.784	36.3952	0.954243879	33.1524	16.8292	-0.978146717

DR_2588	iron ABC transporter periplasmic substrate-binding protein	748.726	581.706	-0.364147669	140.069	278.445	0.991254692
DR_2589	iron ABC transporter permease	144.582	165.819	0.197721372	43.5097	113.421	1.382278807
DR_2590	iron ABC transporter ATP-binding protein	142.275	209.775	0.560160575	98.8692	149.02	0.591912904
DR_2591	hypothetical protein	6.54284	52.2892	2.998524102	0	29.1055	#DIV/0!
DR_2592	hypothetical protein	25.1349	108.025	2.103601377	38.7168	58.9203	0.605805059
DR_2593	hypothetical protein	13.5552	85.7242	2.660856136	15.7573	76.9175	2.287291521
DR_2594	magnesium protoporphyrin chelatase	359.692	519.194	0.529511639	393.974	187.836	-1.068626832
DR_2595	oxidoreductase	29.0204	40.6685	0.486844375	34.8928	26.9096	-0.374808426
DR_2596	hypothetical protein	583.409	190.609	-1.613891402	253.615	107.654	-1.23623815
DR_2597	nitric oxide synthase-like protein	95.5605	158.297	0.728147607	159.858	95.2732	-0.746648593
DR_2598	hypothetical protein	12.6534	16.758	0.405324887	21.3085	3.40512	-2.645651493
DR_2599	hypothetical protein	33.5432	15.478	-1.115801263	46.0569	13.0803	-1.81602168
DR_2600	hypothetical protein	24.9531	18.2156	-0.454044541	19.5235	18.4248	-0.083562751
DR_2601	hypothetical protein	22.1762	54.7147	1.302916315	14.2409	31.7347	1.156020879
DR_2602	acetate kinase	54.7041	45.7542	-0.257744784	34.5785	29.4699	-0.230633122
DR_2603	3-octaprenyl-4-hydroxybenzoate carboxy-lyase	23.4075	34.3907	0.555047623	37.4015	21.2972	-0.812432363
DR_2604	hypothetical protein	13.1103	34.1088	1.379443301	14.1577	17.4172	0.298925804
DR_2605	4-diphosphocytidyl-2C-methyl-D-erythritol kinase	15.677	25.7781	0.717496425	21.4886	20.272	-0.084083063
DR_2607	molybdenum cofactor biosynthesis protein D/E	2.66525	13.8759	2.38023858	7.85521	9.09465	0.211368273
DR_2608	hypothetical protein	11.787	33.0437	1.487178665	26.409	13.2368	-0.996475281
DR_2609	brkB protein	916.061	128.234	-2.836664841	2681.45	93.3229	-4.844638402
DR_2610	amino acid ABC transporter periplasmic amino acid-binding protein	333.388	99.5729	-1.743377123	313.035	53.1485	-2.558223091
DR_2611	glutaminyl-tRNA synthetase	53.6565	46.283	-0.21327057	35.7987	26.1741	-0.451767267
DR_2612	DedA family protein	13.1563	18.2277	0.47037872	42.5057	25.4477	-0.74012105
DR_2613	CbbY/CbbZ/GpH/YieH family hydrolase	9.79614	17.5171	0.838478656	9.95975	11.8466	0.250291627
DR_2614	hypothetical protein	122.899	88.4523	-0.474501614	128.538	46.2424	-1.474906749
DR_2615	3-methyl-2-oxobutanoate hydroxymethyltransferase	83.677	80.4411	-0.056898319	92.9064	82.7458	-0.167091897
DR_2616	hypothetical protein	37.2869	246.856	2.726928948	51.8834	128.467	1.308052884
DR_2617	cytochrome AA3-controlling protein CtaA	90.1085	94.5932	0.070073274	190.549	52.3954	-1.862649974
DR_2618	protoheme IX farnesyltransferase	290.011	167.121	-0.795214592	578.809	133.673	-2.114379263
DR_2620	cytochrome c oxidase subunit I	1190.65	538.988	-1.143424327	3078.8	376.476	-3.03173835
DR_2621	NAD(P)H-dependent glycerol-3-phosphate dehydrogenase	19.7331	37.0681	0.909560553	21.7152	29.5324	0.443593364
DR_2622	hypothetical protein	59.2093	99.1032	0.743107845	49.4871	35.8541	-0.464914397
DR_2623	hypothetical protein	231.286	264.177	0.191826926	179.449	114.326	-0.650420345
DR_2624	hypothetical protein	24.3957	33.8348	0.471880981	78.1412	19.753	-1.984011631
DR_2625	hypothetical protein	17.0897	41.2896	1.272651371	27.1386	20.5286	-0.402711056
DR_2626	carboxylesterase, type B	57.3724	49.8786	-0.201935898	83.7411	37.2953	-1.166942037
DR_2627	fumarate hydratase	79.1301	127.687	0.690313164	75.3005	50.7603	-0.568958849
DR_2628	hypothetical protein	3.9597	19.4523	2.29647771	1.36393	23.916	4.132134607
DR_2629	hypothetical protein	6.15541	19.5078	1.664124226	9.32416	9.73327	0.061950815

DR_2630	thymidylate synthase	31.8045	20.9578	-0.601743625	19.2353	16.739	-0.200542988
DR_2631	deoxycytidylate deaminase	45.2273	20.906	-1.113276818	25.2441	22.6356	-0.157352695
DR_2632	dihydrofolate reductase	29.6914	101.664	1.775691875	27.3087	65.3682	1.259228333
DR_2633	OxrA-like protein	9.4375	48.6127	2.364856621	8.03297	32.8296	2.030991778
DR_2634	tyrosyl-tRNA synthetase	119.404	84.5121	-0.498621348	48.0539	56.1016	0.223388393
DR_2635	pyruvate kinase	298.008	348.045	0.223922789	126.627	192.783	0.606392782
DR_2637	phosphopyruvate hydratase	612.417	717.061	0.227581522	364.221	268.517	-0.439800677
DR_A0001	ParA family chromosome partitioning ATPase	39.3693	103.242	1.390887028	44.466	48.1074	0.113556199
DR_A0002	ParB family chromosome partitioning protein	72.1256	132.111	0.873167275	31.6073	53.8728	0.769299249
DR_A0003	succinate-semialdehyde dehydrogenase	213.011	93.9659	-1.180718728	215.999	36.9418	-2.547698564
DR_A0004	hypothetical protein	13.6925	15.1678	0.147625966	15.7561	14.6353	-0.10645816
DR_A0005	zinc-containing alcohol dehydrogenase	1239.88	356.988	-1.796253014	408.784	147.443	-1.471181399
DR_A0006	hypothetical protein	496.107	204.048	-1.281742744	295.316	93.8467	-1.653881602
DR_A0007	ABC transporter ATP-binding protein	2.45584	4.54583	0.888327162	1.85341	6.8169	1.878933759
DR_A0008	hypothetical protein	5.7753	16.3275	1.499336113	5.47825	11.6557	1.08924864
DR_A0009	hypothetical protein	5.75611	42.6605	2.889734807	9.73753	24.8167	1.349683513
DR_A0010	DNA-binding response regulator uroporphyrin-III C-methyltransferase/uroporphyrinogen-III synthase	27.4631	77.8722	1.503613901	45.2549	53.7806	0.249011841
DR_A0011	hypothetical protein	95.5788	156.748	0.713684476	67.1642	78.4544	0.224161911
DR_A0012	hypothetical protein	146.536	222.987	0.605704464	95.0518	89.0539	-0.094035154
DR_A0013	ferredoxin-nitrite reductase	1108	349.346	-1.665229355	380.001	159.791	-1.249817062
DR_A0014	adenylylsulfate kinase	1302.08	254.371	-2.355811982	192.751	161.915	-0.2515017
DR_A0015	phosphoadenosine phosphosulfate reductase	494.111	280.184	-0.818460601	203.949	157.883	-0.369352595
DR_A0016	sulfate adenylyltransferase	567.792	345.452	-0.716877258	132.586	171.955	0.37510262
DR_A0017	hypothetical protein	305.147	255.53	-0.256011729	366.384	219.82	-0.737033849
DR_A0019	hypothetical protein	51.5937	26.9772	-0.935454295	31.8201	23.7484	-0.422108052
DR_A0020	cobinamide kinase/cobinamide phosphate guanylyltransferase	64.031	44.3414	-0.53011622	33.0338	20.6285	-0.679304018
DR_A0021	hypothetical protein	27.0332	30.1535	0.157593171	26.184	19.1466	-0.451597282
DR_A0022	hypothetical protein	59.4844	35.648	-0.738690228	27.2767	18.1983	-0.583865427
DR_A0023	hypothetical protein	11.3269	18.3404	0.695272033	16.4801	10.7777	-0.612675662
DR_A0024	hypothetical protein	9.08514	19.0201	1.06594418	23.9462	20.2083	-0.244848772
DR_A0026	hypothetical protein	1.73005	5.69612	1.719165806	9.44145	13.4172	0.507003283
DR_A0027	hypothetical protein	2.18095	18.622	3.093979426	2.61039	12.7541	2.288623827
DR_A0028	hypothetical protein	1.66262	17.358	3.384070353	0	17.5966	#DIV/0!
DR_A0029	4-aminobutyrate aminotransferase	3.40646	25.6585	2.913091661	10.2914	14.5909	0.503629621
DR_A0030	1-pyrroline-5-carboxylate dehydrogenase	4.77601	23.4423	2.295236362	5.81312	20.4531	1.814934928
DR_A0031	glucose-1-phosphate thymidyltransferase	85.4302	104.022	0.284070617	56.6398	47.0058	-0.268977391
DR_A0032	mannose-1-phosphate guanylyltransferase	66.9702	436.649	2.704882855	46.7633	225.915	2.272331417
DR_A0033	ExoP-like protein	78.4508	300.683	1.938383239	134.356	114.585	-0.229642553
DR_A0034	UDP-galactose-lipid carrier transferase	46.0022	219.436	2.254025466	34.8104	194.817	2.484529277
DR_A0035	O-antigen transporter RfbX	87.9039	345.762	1.975780243	81.2421	403.919	2.313766574

DR_A0036	hypothetical protein	256.75	497.561	0.954509132	195.507	744.087	1.928251051
DR_A0037	glycosyltransferase	491.847	467.537	-0.073129061	131.127	829.676	2.661583276
DR_A0038	rhamnosyltransferase	697.69	553.951	-0.332827788	112.901	1216.54	3.429653587
DR_A0039	mannosyltransferase	409.092	688.453	0.750932841	168.647	933.855	2.469191905
DR_A0040	first mannosyl transferase	43.9723	303.114	2.785193587	49.7045	170.162	1.775460518
DR_A0041	thymidine diphosphoglucose 4,6-dehydratase	105.614	391.836	1.891448863	47.9723	212.902	2.149915987
DR_A0042	glucose-1-phosphate thymidylyltransferase	50.6593	243.371	2.26425822	59.5915	115.469	0.954327115
DR_A0043	lipopolysaccharide biosynthesis protein	57.9906	243.127	2.067819148	32.2563	113.788	1.818695553
DR_A0044	dTDP-4-rhamnose reductase-like protein	25.2947	179.397	2.826248731	18.9879	86.9444	2.195012751
DR_A0045	hypothetical protein	19	103.417	2.444402036	20.8904	62.1544	1.573016409
DR_A0046	hypothetical protein	39.4923	99.3515	1.330970358	38.1277	47.8543	0.32780906
DR_A0047	phospho-sugar mutase	44.5876	97.8803	1.134375977	36.5675	62.4002	0.770988655
DR_A0048	mannose-6-phosphate isomerase	28.2572	57.3306	1.020686861	42.52	24.2987	-0.807262466
DR_A0049	response regulator	5.43206	37.1442	2.773565634	12.0884	26.9265	1.155403411
DR_A0050	photoreceptor	3.52526	32.7308	3.214847295	4.23864	20.4588	2.271048183
DR_A0051	Heme oxygenase	5.60815	44.721	2.995355606	17.1376	21.8291	0.349087566
DR_A0052		4.09305	77.0229	4.234039248	33.4531	30.7764	-0.120315422
DR_A0053	acetyl-CoA acetyltransferase	4.1861	50.667	3.597367728	8.42847	27.0208	1.680727718
DR_A0054	succinyl-CoA:3-ketoacid-CoA transferase	3.15855	37.4944	3.569340822	3.90447	19.3962	2.312575402
DR_A0055	ribokinase	9.31427	43.17	2.212514484	12.0963	26.3504	1.123259037
DR_A0056	hypothetical protein	6.6258	45.6451	2.784293434	10.6272	29.9184	1.493271491
DR_A0057	TerF-like protein	10.425	35.5515	1.769863048	10.0158	25.1793	1.329960517
DR_A0058	hypothetical protein	2.29004	35.5129	3.954898473	6.03929	11.6461	0.947396055
DR_A0059	hypothetical protein	22.4839	58.2921	1.374408073	28.6585	27.8174	-0.042975518
DR_A0060	hypothetical protein	84.61	54.4198	-0.63669653	29.1092	42.309	0.539489396
DR_A0061	drug transport protein	33.7333	41.332	0.293085717	11.6432	31.3829	1.430491053
DR_A0062	acetyltransferase	18.2793	37.3892	1.032410779	23.5077	20.3615	-0.207289546
DR_A0063	hypothetical protein	8.23539	32.7417	1.991220353	9.2761	16.2449	0.808396585
DR_A0064	serine protease	24.2709	29.5414	0.283510592	28.7174	21.6494	-0.407598095
DR_A0065	DNA-binding protein HB	454.671	1037.1	1.189660116	523.227	262.132	-0.997143507
DR_A0066	N-acetylglucosamine-6-phosphate deacetylase	15.3091	25.3978	0.730314062	5.73741	15.3494	1.41971074
DR_A0067	CoA transferase subunit B	34.2177	32.2102	-0.087225171	20.7024	30.1961	0.544564202
DR_A0068	CoA transferase subunit A	45.1937	37.7303	-0.260398104	33.6534	50.6484	0.589764427
DR_A0069	cleavage and polyadenylation specificity factor-like protein	14.7236	29.2856	0.992060991	17.9849	15.2179	-0.24101685
DR_A0070	hypothetical protein	61.8142	37.2946	-0.72897154	119.314	14.3653	-3.054103308
DR_A0071	transcriptional repressor SmtB	71.853	24.7107	-1.539912514	67.945	26.4036	-1.363632741
DR_A0072	hypothetical protein	43.6106	50.6278	0.215250955	54.8568	20.8536	-1.395374006
DR_A0073	cation-transporting P-type ATPase	119.825	68.0795	-0.815636593	113.606	32.3525	-1.812089927
DR_A0074	hypothetical protein	376.297	1369.31	1.863505405	657.643	358.4	-0.875733995
DR_A0075	transposase	11.4152	13.1077	0.199458422	11.8649	14.8948	0.328108811
DR_A0076	hypothetical protein	5.53123	7.26095	0.392557985	10.0048	12.2307	0.289814649

DR_A0077	hypothetical protein	2.9158	5.27007	0.853930359	13.054	10.2866	-0.343725733
DR_A0078	hypothetical protein	3.00551	9.64206	1.681731587	3.70131	10.4361	1.495474796
DR_A0079	hypothetical protein	9.78451	11.4509	0.226889485	2.70318	6.76792	1.324054934
DR_A0080	hypothetical protein	10.6683	7.05943	-0.595706694	5.94504	10.1868	0.776942504
DR_A0081	hypothetical protein	2.00367	6.67527	1.736181272	11.1039	11.7406	0.080439658
DR_A0082	hypothetical protein	3.51431	6.40264	0.865425436	5.25242	8.26386	0.65383353
DR_A0083	hypothetical protein	2.53211	4.31492	0.768993732	6.12689	7.62806	0.316161242
DR_A0084	hypothetical protein	0	2.37769	#DIV/0!	0	7.98338	#DIV/0!
DR_A0085	hypothetical protein	2.30575	5.62908	1.287663054	0	9.55138	#DIV/0!
DR_A0086	hypothetical protein	1.07408	4.1986	1.966806897	0	4.76966	#DIV/0!
DR_A0087	hypothetical protein	3.49273	5.40026	0.628673747	4.09841	8.88616	1.116495801
DR_A0088	hypothetical protein	24.8381	14.3062	-0.795914303	22.6483	17.2198	-0.395334378
DR_A0089	hypothetical protein	1.49194	8.043	2.430544203	0	11.9484	#DIV/0!
DR_A0090	hypothetical protein	9.89347	15.297	0.628700223	15.1465	6.33797	-1.256891723
DR_A0091	hypothetical protein	1.03145	6.88988	2.739804968	0	10.7613	#DIV/0!
DR_A0092	hypothetical protein	5.10336	5.79712	0.183888934	0	3.37001	#DIV/0!
DR_A0093	hypothetical protein	1.57453	5.21663	1.728196865	5.50563	6.65435	0.273390091
DR_A0094	hypothetical protein	5.05997	7.88835	0.640594733	4.52861	12.1443	1.423139129
DR_A0095	hypothetical protein	1.66783	2.43395	0.545327287	0	5.3803	#DIV/0!
DR_A0096	hypothetical protein	8.4332	16.6329	0.979887654	8.94055	15.7922	0.820776676
DR_A0097	head morphogenesis protein	2.69133	4.46199	0.729367981	1.15086	4.21813	1.873891216
DR_A0098	hypothetical protein	26.7274	223.047	3.060956337	16.6597	90.4346	2.440512427
DR_A0099	hypothetical protein	2.92434	9.96376	1.768579215	2.98611	8.04555	1.429923737
DR_A0100	hypothetical protein	0	2.98888	#DIV/0!	0	12.8102	#DIV/0!
DR_A0101	hypothetical protein	0	2.06405	#DIV/0!	0	1.21273	#DIV/0!
DR_A0102	hypothetical protein	1.16946	7.0242	2.586491406	0	3.07234	#DIV/0!
DR_A0103	hypothetical protein	319.916	100.404	-1.671876402	64.0104	114.863	0.843535919
DR_A0104	hypothetical protein	11.8719	16.0852	0.438183029	12.0641	16.9327	0.489091744
DR_A0105	hypothetical protein	9.14618	25.3278	1.469480551	14.4665	12.8028	-0.176256556
DR_A0106	hypothetical protein	1.90638	9.56824	2.327417856	2.25105	9.73031	2.111887667
DR_A0107	hypothetical protein	1.15025	12.0713	3.391561692	0	9.05663	#DIV/0!
DR_A0108	minor tail protein gp26-like protein	2.82518	8.60751	1.607253163	6.04877	7.46959	0.304387252
DR_A0109	hypothetical protein	2.72956	6.79464	1.315728705	2.72441	9.34412	1.778114969
DR_A0110	hypothetical protein	1.05264	6.19563	2.557238867	1.51097	8.57801	2.505167981
DR_A0111	hypothetical protein	0.752654	6.5434	3.11998176	5.40635	10.6353	0.976133911
DR_A0112	hypothetical protein	11.6001	36.7308	1.662853076	12.2649	28.7788	1.230470966
DR_A0113	hypothetical protein	0	3.06217	#DIV/0!	0	1.34517	#DIV/0!
DR_A0114	hypothetical protein	1.79705	2.63731	0.553436611	3.28149	5.81762	0.826078028
DR_A0115	hypothetical protein	0	2.00588	#DIV/0!	0	7.0769	#DIV/0!
DR_A0116	hypothetical protein	79.0957	19.7875	-1.999009915	36.3282	20.0808	-0.855273138
DR_A0117	glycohydrolase	0.303972	3.3853	3.477273346	2.07201	4.18436	1.013976013
DR_A0118	hypothetical protein	2.96927	16.4688	2.471555246	6.89749	14.406	1.062526444

DR_A0119	hypothetical protein	2.90256	14.7245	2.34282085	6.22485	8.65711	0.475846418
DR_A0119.1	hypothetical protein	3.222	13.1532	2.029385432	5.55719	9.89694	0.832626966
DR_A0120	hypothetical protein	53.1164	24.0651	-1.142214952	74.1277	9.20429	-3.009634404
DR_A0121	aminotransferase, class III	1.99092	3.61393	0.860133311	4.86635	3.14791	-0.628445792
DR_A0122	2-oxo-hepta-3-ene-1,7-dioate hydratase	10.3486	12.4526	0.267011389	18.1897	7.06795	-1.36375801
DR_A0123	arsenate reductase	2.0836	9.61186	2.205737293	0	11.2248	#DIV/0!
DR_A0124	hypothetical protein	7.8184	11.1826	0.516310358	10.9656	5.79928	-0.919039052
DR_A0125	hypothetical protein	8.04554	15.8149	0.975023273	4.48292	7.64173	0.769460531
DR_A0126	aldehyde dehydrogenase	2.01161	7.65337	1.927744518	3.11113	5.95007	0.935467961
DR_A0127	GMC oxidoreductase	8.42224	5.05693	-0.735942179	7.18558	5.20745	-0.46452753
DR_A0128	hypothetical protein	15.5571	18.2924	0.23367122	20.6029	5.76909	-1.836431746
DR_A0129	hypothetical protein	31.8469	28.834	-0.143381958	31.6707	13.716	-1.207288945
DR_A0130	methyltransferase	12.3891	16.1923	0.386236537	9.55285	3.47717	-1.458017609
DR_A0131	hypothetical protein	8.09418	10.1568	0.327489101	6.79341	7.57339	0.156803297
DR_A0132	hypothetical protein	5.24411	19.4158	1.8884613	1.28707	8.94398	2.796826442
DR_A0133	acyl-CoA dehydrogenase	2.93905	10.1753	1.791649522	0.829137	4.88679	2.559204703
DR_A0134	hypothetical protein	18.1558	31.0946	0.776233557	6.09096	26.6311	2.128370485
DR_A0135	ABC transporter periplasmic substrate-binding protein	621.477	450.902	-0.462887091	402.37	176.327	-1.190269341
DR_A0136	amino acid ABC transporter permease	31.8853	23.4369	-0.444109698	30.8446	12.3992	-1.314770897
DR_A0137	amino acid ABC transporter ATP-binding protein	21.6925	26.423	0.284597947	16.1562	17.5048	0.115662668
DR_A0138	amino acid ABC transporter permease	7.96956	30.0205	1.913376025	32.0421	15.65	-1.033806046
DR_A0139	response regulator	269.566	301.064	0.159431664	118.466	105.969	-0.160830779
DR_A0140	hypothetical protein	64.3767	48.0431	-0.422209381	103.98	28.1458	-1.8853145
DR_A0141	hypothetical protein	953.122	662.391	-0.524977821	564.119	273.622	-1.043815297
DR_A0142	TetR family transcriptional regulator	51.6778	59.5973	0.205702319	35.0437	23.6397	-0.567943379
DR_A0143	3-hydroxybutyryl-CoA dehydrogenase	2102.07	147.322	-3.834765919	330.337	137.61	-1.263353257
DR_A0144	hypothetical protein	1027.45	89.3782	-3.523001387	141.87	61.0377	-1.216797042
DR_A0145	peroxidase	600.229	55.8706	-3.425351806	107.024	37.9216	-1.496842614
DR_A0146	hypothetical protein	872.624	148.102	-2.55876903	275.746	65.9731	-2.063390156
DR_A0147	histidine ammonia-lyase	30.0842	58.4556	0.958335247	12.6487	34.7731	1.458982572
DR_A0148	imidazolonepropionase	16.9357	45.622	1.429662075	15.2499	24.2428	0.668756555
DR_A0149	agmatinase	12.945	45.1024	1.800809239	9.15561	24.2499	1.405250883
DR_A0150	hypothetical protein	18.5197	55.2798	1.577691668	18.2502	29.3205	0.683997432
DR_A0151	urocanate hydratase	2.442	75.7338	4.954802213	1.81454	35.299	4.281951548
DR_A0152	IclR family transcriptional regulator	4.37341	9.39367	1.102930308	17.2629	8.01445	-1.106999421
DR_A0153	hypothetical protein	10.0136	23.3409	1.220899459	17.9455	8.06629	-1.153644941
DR_A0154	glucosamine--fructose-6-phosphate aminotransferase-like protein	6.19698	13.1726	1.087902915	4.6538	3.14551	-0.565115263
DR_A0155	integrase/recombinase	2.56718	20.3405	2.986098783	4.7342	8.72501	0.88203613
DR_A0156	hypothetical protein	11.3165	29.6448	1.389351237	16.9621	17.8033	0.069829888
DR_A0157	phosphate ABC transporter periplasmic phosphate-binding protein	4.08902	13.0202	1.670924585	7.86515	14.2836	0.860813453
DR_A0158	phosphate ABC transporter permease	2.98373	12.2204	2.034102612	5.42944	9.15056	0.753056633

DR_A0159	phosphate ABC transporter permease	3.5897	9.5864	1.417125859	0.938126	9.31456	3.311634011
DR_A0160	phosphate ABC transporter ATP-binding protein	2.67834	5.3745	1.00479143	1.14509	10.0737	3.137060774
DR_A0161	phosphate transport system regulatory protein PhoU	2.37582	5.27991	1.152087801	2.72787	5.48075	1.006598436
DR_A0162	hypothetical protein	10.2302	14.1199	0.464895521	22.6052	12.3378	-0.873569517
DR_A0163	hypothetical protein	16.372	17.1479	0.066801337	24.5201	20.0808	-0.288148117
DR_A0164	thioredoxin 1	58.316	24.7693	-1.235338669	70.4918	16.8327	-2.066188838
DR_A0165	hypothetical protein	9.43113	40.3499	2.097062554	38.0239	35.8685	-0.084189099
DR_A0166	hypothetical protein	2.2834	22.7342	3.315608723	3.19727	15.26	2.254842476
DR_A0167	hypothetical protein	8.48397	11.3228	0.41641934	24.5672	7.74438	-1.665511789
DR_A0168	molybdenum ABC transporter permease	5.37977	17.4208	1.695194477	16.2016	11.8895	-0.446448249
DR_A0169	molybdenum ABC transporter periplasmic molybdate-binding protein	2.37799	6.64195	1.481864214	0	8.09457	#DIV/0!
DR_A0170	hypothetical protein	4.56417	6.12545	0.424463306	2.86474	5.22688	0.86754583
DR_A0171	phosphomethylpyrimidine kinase	13.2488	22.0608	0.735623414	31.3897	14.485	-1.115731556
DR_A0172	thiazole synthase	2.58825	3.398	0.392708878	0.978313	3.59536	1.877768216
DR_A0173	hypothetical protein	1.55752	1.20542	-0.369714782	0	6.25608	#DIV/0!
DR_A0174	thiamin-phosphate pyrophosphorylase	0.297452	4.34539	3.868756881	1.01303	5.95349	2.555058741
DR_A0175	thiamine biosynthesis protein ThiC	4.58053	5.76719	0.332354015	7.44118	7.20408	-0.046717216
DR_A0176	xanthine permease	3.52217	9.24251	1.391820156	2.68402	10.5283	1.971805177
DR_A0178	xanthine dehydrogenase, C-terminal subunit	6.56818	93.9765	3.838734468	1.8211	46.7837	4.683123914
DR_A0179	hypothetical protein	4.57965	62.6988	3.775128582	3.12218	37.446	3.584185998
DR_A0180	guanine deaminase	3.18309	76.0709	4.57884482	2.37621	41.5112	4.126766391
DR_A0181	GGDEF family protein	19.1443	31.6227	0.724045643	28.9706	32.8805	0.182642674
DR_A0182	hypothetical protein	58.015	50.6842	-0.194889883	136.958	20.0259	-2.773794553
DR_A0183	hypothetical protein	33.5804	70.4162	1.068287959	155.063	58.3949	-1.408940202
DR_A0184	pyridoxamine kinase	33.6731	28.9344	-0.218810816	53.2581	16.2457	-1.712943053
DR_A0185	exopolyphosphatase	8.44332	17.3901	1.042383931	14.384	5.69363	-1.337044278
DR_A0188	excinuclease ABC subunit A	21.077	22.1698	0.07292622	26.5911	11.644	-1.191356714
DR_A0189	ribosomal protein S12 methylthiotransferase	123.175	264.295	1.10143966	96.5464	149.747	0.63323273
DR_A0190	hypothetical protein	8.30145	55.6809	2.745747274	11.7007	26.7219	1.191427749
DR_A0191	hypothetical protein	5.00721	10.4184	1.057054866	1.78811	8.5541	2.258180583
DR_A0192	hypothetical protein	5.38527	17.3036	1.683981637	11.0736	26.7078	1.270136827
DR_A0193	phosphoglycerate mutase-like protein	3.28255	5.6155	0.774597498	6.25896	9.61981	0.620085443
DR_A0194	hypothetical protein	2.24924	7.47717	1.733054726	2.75619	7.12258	1.369724576
DR_A0195	short chain dehydrogenase/reductase family oxidoreductase	2.10018	7.93294	1.917342655	1.0221	8.63352	3.078412532
DR_A0196	acyl-CoA dehydrogenase	5.46266	10.642	0.962093772	8.23691	11.7057	0.50703608
DR_A0197	hypothetical protein	0	3.43015	#DIV/0!	2.83676	3.03764	0.098706803
DR_A0198	hypothetical protein	1.18412	4.22873	1.836409156	0	9.04309	#DIV/0!
DR_A0199	nodulation protein N-like protein	2.61368	6.10034	1.222807134	2.31957	10.8503	2.225805643
DR_A0200	gluconate 5-dehydrogenase	10.5104	16.9547	0.689867681	7.85805	14.8186	0.915165902
DR_A0201	NAD synthetase	66.1308	26.0957	-1.341510252	68.7765	15.8866	-2.114105303
DR_A0202	Cu/Zn family superoxide dismutase	226.006	84.3152	-1.422496431	57.7335	54.9468	-0.071373225

DR_A0203	oxidoreductase	98.2046	70.8337	-0.4713547	28.8089	31.7397	0.139773916
DR_A0204	response regulator	15.1488	43.258	1.513763449	20.651	26.8258	0.377409552
DR_A0205	sensor histidine kinase	7.14687	20.5004	1.520268608	7.17508	15.4142	1.103193193
DR_A0206	oligoendopeptidase F	2.82717	19.8721	2.813313797	2.46256	11.5659	2.231646752
DR_A0207	hypothetical protein	5.00141	11.1505	1.156701621	10.6884	6.88659	-0.634184213
DR_A0208	peptide ABC transporter permease	1.93741	9.21726	2.250208653	6.5367	14.4706	1.14649035
DR_A0209	peptide ABC transporter permease	2.95996	15.5447	2.392773189	15.8688	11.0746	-0.518938444
DR_A0211	GntR family transcriptional regulator	11.0531	37.8266	1.774950056	27.4737	24.6658	-0.155539138
DR_A0213	N-acetylmuramic acid-6-phosphate etherase	2.41778	22.7414	3.233566191	7.29524	8.38697	0.201194255
DR_A0214	trp repressor binding protein WrbA	29.8889	49.5137	0.728217959	72.2314	21.155	-1.771627447
DR_A0215	hypothetical protein	2.47211	7.80986	1.659553747	8.95202	4.25093	-1.074434757
DR_A0216	esterase	10.9059	9.73076	-0.164484439	18.8647	8.7631	-1.10617593
DR_A0217	hypothetical protein	2.79669	6.19965	1.148466424	2.01842	1.73912	-0.214868924
DR_A0218	hypothetical protein	1.1224	2.14399	0.933711263	0	3.85727	#DIV/0!
DR_A0219	hypothetical protein	9.40784	14.6372	0.637704173	6.4199	25.1305	1.968816645
DR_A0220	aldehyde dehydrogenase	5.0867	11.7709	1.210422717	4.37841	10.8103	1.303927599
DR_A0221	glucan synthase 1-like protein	1.66262	8.28448	2.316952674	1.94456	10.558	2.440820916
DR_A0222	TDP-glucose-4,6-dehydratase-like protein	4.02616	11.993	1.574716177	1.95663	15.8196	3.015270249
DR_A0223	4-hydroxyphenylacetate-3-hydroxylase	4.55079	11.4594	1.33234259	3.04883	12.4162	2.025896087
DR_A0224	homoprotocatechuate 2,3-dioxygenase	3.54848	7.69303	1.116350759	3.20036	8.25603	1.367214014
DR_A0225	sulfite oxidase	6.05665	10.6979	0.820735674	5.30336	8.3818	0.660353413
DR_A0226	2-hydroxyhepta-2,4-diene-1,7-dioate isomerase/5-carboxymethyl-2-oxo-hex-3-ene-1,7-dioate decarboxylase	9.3479	17.754	0.925429896	20.9177	14.5378	-0.524915266
DR_A0227	5-carboxymethyl-2-hydroxymuconate isomerase	8.54401	19.3611	1.180175681	18.6285	15.4523	-0.269689918
DR_A0228	hypothetical protein	67.1605	41.6278	-0.690065656	80.1501	25.7015	-1.640851759
DR_A0229	hypothetical protein	184.47	69.4012	-1.410353699	88.1721	43.6525	-1.014257941
DR_A0230	hypothetical protein	232.022	120.289	-0.947756887	151.787	67.9228	-1.160080397
DR_A0231	oxidoreductase	60.9504	59.4676	-0.035531836	37.2081	36.7539	-0.017719378
DR_A0232	oxidoreductase	74.9151	76.8418	0.036634774	23.671	47.1151	0.993068851
DR_A0233	oxidoreductase iron-sulfur subunit	143.02	113.529	-0.33315604	41.3849	60.1292	0.538961293
DR_A0234	hypothetical protein	1620.5	771.329	-1.071020762	6361.14	866.291	-2.876361704
DR_A0235	oxidoreductase iron-sulfur subunit	288.373	53.9623	-2.417912347	130.346	21.4302	-2.604629091
DR_A0236	oxidoreductase	318.46	50.4379	-2.65853206	125.695	21.3777	-2.555748713
DR_A0237	oxidoreductase	389.859	50.7892	-2.940358785	137.704	28.2783	-2.28380317
DR_A0238	putative FAD-binding dehydrogenase	44.0292	20.2568	-1.120054344	69.962	15.5873	-2.166200483
DR_A0239	cobalamin synthase	4.99493	10.6553	1.093034848	8.51995	8.20813	-0.053791383
DR_A0240	nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase	10.4628	11.7445	0.166716305	10.2992	9.22716	-0.158573701
DR_A0241	beta lactamase-like protein	15.1837	17.5924	0.212428919	17.4711	7.22852	-1.273198246
DR_A0242	hypothetical protein	1.35801	10.2635	2.917956786	0	10.4232	#DIV/0!
DR_A0243	flavohemoprotein	12.267	27.1142	1.144266136	22.94	17.1887	-0.416404955
DR_A0244	hypothetical protein	2.70058	20.6888	2.937508776	3.80072	14.2959	1.911256797

DR_A0245	amber mutation suppressing protein	0	5.83181	#DIV/0!	0	18.8638	#DIV/0!
DR_A0246	extracellular solute-binding protein	5.3216	56.3611	3.40476779	8.18318	26.2082	1.67928478
DR_A0247	drug transport protein	173.056	144.166	-0.263508001	779.078	114.335	-2.76850067
DR_A0248	MarR family transcriptional regulator	112.116	101.035	-0.150137029	342.263	68.408	-2.322868383
DR_A0249	zinc metalloendopeptidase	5.58993	57.4858	3.362303507	3.02047	33.1392	3.455693813
DR_A0250	acyl-CoA dehydrogenase	6.11024	18.0221	1.560466176	5.09738	12.0709	1.243705434
DR_A0251	NADPH quinone oxidoreductase	24.7033	29.2149	0.242000573	34.0814	13.1558	-1.373285619
DR_A0252	MerR family transcriptional regulator	10.3572	27.4129	1.404220926	25.259	14.8781	-0.763607225
DR_A0254	resolvase	220.988	300.524	0.443512179	366.747	443.993	0.275751767
DR_A0255	aculeacin A acylase	2.25465	5.45626	1.275008898	1.87595	4.41219	1.233873542
DR_A0256	phenylacetyl-CoA ligase	14.0835	11.9657	-0.235101116	41.1946	10.6807	-1.947449031
DR_A0257	ankyrin-like protein	207.84	92.052	-1.174952364	69.1821	55.4639	-0.318849742
DR_A0258	hypothetical protein	162.197	78.9536	-1.038670181	33.2626	49.9755	0.587320059
DR_A0259	catalase	685.079	321.988	-1.08926344	132.423	143.145	0.112323559
DR_A0260	branched-chain amino acid ABC transporter ATP-binding protein	3.6282	5.58517	0.622347209	3.73491	10.9353	1.549847416
DR_A0261	branched-chain amino acid ABC transporter ATP binding protein	7.31779	19.7972	1.435816478	6.86284	11.9248	0.797087445
DR_A0262	branched-chain amino acid ABC transporter permease	13.7711	70.6244	2.358522903	8.53197	30.3112	1.828900171
DR_A0263	branched-chain amino acid ABC transporter periplasmic amino acid-binding protein	2.94196	8.10451	1.461947332	2.47269	7.99634	1.693258435
DR_A0265	hypothetical protein	3.40695	16.5765	2.282586745	2.976	8.26495	1.473631565
DR_A0266	hypothetical protein	5.16394	18.8699	1.869542634	3.29687	11.5535	1.80916106
DR_A0267	hypothetical protein	13.3068	37.2422	1.484774624	14.3293	13.9087	-0.042980552
DR_A0268	adenine deaminase-like protein	4.95119	7.05407	0.510680579	3.19717	4.06415	0.346158193
DR_A0269	hypothetical protein	0.973865	9.71011	3.317693938	1.79341	8.86341	2.305156503
DR_A0270	adenine deaminase	14.0351	8.21981	-0.771862391	9.72447	7.20428	-0.432765369
DR_A0271	sugar transporter putative	3.7471	11.599	1.630154045	12.5784	11.2075	-0.166483921
DR_A0272	nicotinate phosphoribosyltransferase bifunctional nicotinamide mononucleotide adenylyltransferase/ADP-ribose pyrophosphatase	7.30564	19.6412	1.426800506	5.98931	12.6923	1.083491815
DR_A0273	pyrophosphatase	4.01808	24.0096	2.579033175	5.10455	12.5313	1.295680399
DR_A0274	flavin monoamine oxidase-like protein	965.477	144.329	-2.741880682	301.313	68.7151	-2.13256385
DR_A0275	cytochrome C6	791.566	132.253	-2.581409197	241.692	57.1946	-2.079218874
DR_A0276	malate dehydrogenase	115.24	33.3443	-1.789129498	58.6766	25.9372	-1.177762532
DR_A0277	malate synthase	372.655	174.784	-1.092267492	321.68	83.5891	-1.944239509
DR_A0278	hypothetical protein	43.654	34.3528	-0.34568616	10.8127	25.138	1.217143054
DR_A0279	hypothetical protein	7.70164	13.3103	0.789305495	5.35667	11.0046	1.03869838
DR_A0281	hypothetical protein	103.645	142.381	0.458106119	167.145	65.5896	-1.349561217
DR_A0282	hypothetical protein	108.612	96.6754	-0.167962774	58.9441	51.5462	-0.193481338
DR_A0283	serine protease	120.232	83.5332	-0.525399312	50.8683	53.1236	0.062586036
DR_A0284	LamB/YcsF family protein	1.0958	13.5025	3.623170134	3.72193	8.21312	1.141879455
DR_A0285	hypothetical protein	9.23946	9.44685	0.032024815	3.97316	5.80923	0.548060058
DR_A0287	hypothetical protein	8.36935	31.5712	1.915421611	15.2888	13.5626	-0.172841401
DR_A0288	hypothetical protein	6.77344	95.5156	3.817775758	9.15219	31.2173	1.770156855

DR_A0289	hypothetical protein	5.57021	34.143	2.615786203	14.361	8.19718	-0.808956629
DR_A0290	cell division protein FtsH	1151.9	804.545	-0.517770456	2144.04	427.81	-2.325289711
DR_A0291	2,4-dihydroxyhept-2-ene-1,7-dioic acid aldolase	7.83458	12.5816	0.68338756	17.4538	9.04875	-0.947750755
DR_A0292	hypothetical protein	7.44262	12.2458	0.718404543	8.05239	9.46246	0.232798249
DR_A0293	hypothetical protein	38.9012	12.0901	-1.685988482	27.4023	13.0232	-1.073213006
DR_A0294	hypothetical protein	8.79704	5.73306	-0.617712794	8.14212	4.99287	-0.705535141
DR_A0295	hypothetical protein	30.3605	12.4486	-1.286212048	27.2097	21.8632	-0.315616474
DR_A0296	hypothetical protein	8.92235	10.4333	0.2256999	12.8465	9.31609	-0.463578872
DR_A0297	GGDEF family protein	10.2703	18.5	0.849046947	8.11476	12.5533	0.629446337
DR_A0298	hypothetical protein	2.05844	18.212	3.145266062	4.69815	14.201	1.595827844
DR_A0299	copper resistance protein	16.9438	60.2248	1.829600232	29.0499	69.0203	1.248487547
DR_A0300	hypothetical protein	5.3263	29.7895	2.483598314	13.677	31.2924	1.194060497
DR_A0301	methylaniline utilization protein	4.52562	39.8888	3.139796366	31.4237	32.6604	0.055689399
DR_A0302	hypothetical protein	14.6617	87.8453	2.582912708	74.1838	67.2374	-0.141840232
DR_A0303	hypothetical protein	21.4979	79.1218	1.879879509	233.071	44.8709	-2.376917481
DR_A0304	hypothetical protein	121.633	31.3583	-1.955615441	92.2168	20.5159	-2.16828716
DR_A0305	hypothetical protein	44.1948	10.6724	-2.049991986	89.3356	8.54832	-3.38552238
DR_A0306	hypothetical protein	20.3827	22.5352	0.144835083	123.233	11.9288	-3.368867816
DR_A0307	hypothetical protein	15.2354	16.6271	0.126109186	22.3859	13.8278	-0.695018679
DR_A0308	TetR family transcriptional regulator	17.3247	13.6354	-0.345473347	18.5733	10.8772	-0.771922941
DR_A0309	acyl-CoA synthetase	3.2701	3.85565	0.237639341	2.62282	5.50866	1.07058262
DR_A0310	carboxylase	5.31293	3.53106	-0.589406369	5.06802	2.95017	-0.780624127
DR_A0311	urease accessory protein UreD	2.40021	3.34019	0.476769534	3.06629	2.25222	-0.44514639
DR_A0312	urease accessory protein UreG	3.33938	7.63125	1.192339118	0	5.25912	#DIV/0!
DR_A0313	urease accessory protein UreF	7.93103	5.87019	-0.434101041	11.5313	8.4146	-0.454588569
DR_A0314	urease accessory protein UreE	1.92401	5.06092	1.395283372	0	3.27454	#DIV/0!
DR_A0315	hydrogenase expression/formation HypB-like protein	6.44594	5.09235	-0.34005918	1.38882	4.05714	1.546603458
DR_A0316	hydrogenase expression/formation HypA-like protein	5.68439	10.472	0.881459558	3.47906	2.4601	-0.499980599
DR_A0317	urease accessory protein UreJ	5.52249	8.89255	0.68727828	7.00323	9.53523	0.445247269
DR_A0318	urease subunit alpha	10.2634	8.48466	-0.274579984	3.1136	9.39585	1.593440066
DR_A0319	bifunctional urease subunit gamma/beta urea/short-chain amide ABC transporter periplasmic urea/short-chain amide-binding protein	14.5484	7.78269	-0.9025197	7.9005	9.62738	0.285199276
DR_A0320	urea/short-chain amide ABC transporter permease	19.603	10.8736	-0.850244795	4.76581	12.8202	1.427625427
DR_A0321	urea/short chain-amide ABC transporter permease	17.2588	8.93828	-0.949263013	23.262	8.21312	-1.501972859
DR_A0322	urea/short-chain amide ABC transporter ATP-binding protein	5.79484	4.15868	-0.47864315	3.01052	6.10662	1.020361371
DR_A0323	urea/short-chain amide ABC transporter ATP-binding protein	7.47367	13.0467	0.803796173	5.8129	9.37266	0.689200459
DR_A0324	N-glycosidase F	5.55864	13.2334	1.251379919	5.09088	6.9839	0.456117842
DR_A0325	chalcone synthase	19.9875	15.7143	-0.347020026	27.812	9.32794	-1.576077081
DR_A0326	hypothetical protein	8.15537	17.4502	1.097421335	7.74283	8.14752	0.073500021
DR_A0327	hypothetical protein	2.19994	9.23918	2.070300638	1.25869	10.1324	3.008981023
DR_A0328	oxidoreductase	2.67396	10.9287	2.031072009	5.54584	9.21259	0.732200814

DR_A0329	glycosyltransferase	3.7369	17.6338	2.238429539	8.7973	8.12705	-0.114329041
DR_A0330	hypothetical protein	15.3376	14.0115	-0.130461339	29.5166	11.643	-1.342063709
DR_A0331	hypothetical protein	72.8902	49.8597	-0.547850657	14.032	17.5058	0.31911234
DR_A0332	protein kinase	26.1601	34.6145	0.404008453	10.7028	24.143	1.173616681
DR_A0333	FraH-like protein	74.7623	145.424	0.959882525	6.1619	80.0283	3.699063089
DR_A0334	hypothetical protein	53.7316	101.733	0.920945031	9.76253	64.1057	2.715125659
DR_A0336	transcriptional regulator	2.0613	11.4311	2.471337845	4.36769	7.07424	0.695704701
DR_A0337	glutaryl-CoA dehydrogenase	3.68057	26.5228	2.849231973	8.95761	16.7889	0.906321949
DR_A0338	kynureninase	1.00224	6.08816	2.602778251	1.12104	6.01305	2.423259199
DR_A0339	tryptophan 2,3-dioxygenase	2.31025	6.22283	1.429521855	0.982522	6.86013	2.803674299
DR_A0340	hypothetical protein	0.60529	4.42329	2.86942141	0	2.65094	#DIV/0!
DR_A0341	serine protease	24.3562	98.7675	2.019747328	16.5806	45.4643	1.455237926
DR_A0342	GGDEF family protein	140.539	78.2563	-0.844691733	130.714	42.4548	-1.622414087
DR_A0343	succinic-semialdehyde dehydrogenase	189.911	123.219	-0.624098739	51.8992	74.4173	0.519925747
DR_A0344	lexA repressor	17.2234	136.952	2.991228462	48.3148	63.522	0.394791147
DR_A0345	hypothetical protein	8.87095	164.996	4.217198627	5.56273	98.5635	4.147188499
DR_A0346	DNA damage repair protein	34.2436	1279.32	5.223398986	45.5936	517.427	3.504452106
DR_A0347	hypothetical protein	12.6597	38.5285	1.605682802	19.5888	12.3951	-0.660259111
DR_A0348	aldehyde dehydrogenase	9.03583	13.2205	0.549047707	10.912	9.18328	-0.24883411
DR_A0349	ABC transporter ATP-binding protein	6.12075	10.7836	0.81705854	15.0183	5.72275	-1.391941027
DR_A0350	response regulator PilH	6.9781	13.7682	0.980433782	15.6374	12.6196	-0.309334476
DR_A0351	hypothetical protein	7.77344	16.8267	1.114127183	5.04882	15.3922	1.608181302
DR_A0352	methyl-accepting chemotaxis protein	2.19146	9.46562	2.11080466	2.32213	7.38941	1.670010437
DR_A0353	methyl-accepting chemotaxis-like protein	2.78689	10.2598	1.880274643	2.27909	9.91266	2.120814351
DR_A0354	methyl-accepting chemotaxis protein	81.0801	30.1588	-1.426768842	235.053	23.1445	-3.344244793
DR_A0356	hypothetical protein	13.1548	12.9726	-0.020121658	17.5304	13.2634	-0.402408265
DR_A0357	response regulator	3.70058	15.7344	2.088098855	1.15086	14.7635	3.681250535
DR_A0358	hypothetical protein	3.8505	9.54744	1.310068152	6.54002	7.90264	0.273039641
DR_A0359	hypothetical protein	3.43674	8.55855	1.316325683	8.76726	6.44447	-0.444064318
DR_A0360	threonine synthase	122.584	31.547	-1.958195965	102.249	18.9151	-2.434476425
DR_A0361	cation transporter putative	21.9784	24.5106	0.157319437	14.9667	13.1506	-0.186627533
DR_A0362	hypothetical protein	10.6952	24.9561	1.222429034	38.7517	12.9253	-1.584061835
DR_A0363	P49 secreted protein	3.92099	11.4326	1.543863671	3.67978	7.43455	1.014625906
DR_A0364	short chain dehydrogenase/reductase family oxidoreductase	261.507	111.511	-1.229663533	98.0396	63.5453	-0.625579175
DR_A0365	hypothetical protein	2.00367	76.3948	5.252757616	3.70131	35.2217	3.250356666
DR_A0366	hypothetical protein	6.65048	116.772	4.1340921	5.83368	95.0218	4.02578038
DR_A0367	UDP-galactopyranose mutase	14.4578	173.852	3.58793972	3.33457	107.383	5.009121071
DR_A0368	hypothetical protein	29.197	169.104	2.534018741	20.2755	84.0472	2.051462265
DR_A0369	hypothetical protein	158.749	99.479	-0.674283594	198.509	32.7759	-2.598497116
DR_B0001	ParA family chromosome partitioning ATPase	105.104	192.917	0.876162705	99.9094	90.9697	-0.135234325
DR_B0002	ParB family chromosome partitioning protein	119.301	179.207	0.587020856	64.7153	85.9205	0.408895554

DR_B0003	hypothetical protein	47.9101	117.987	1.30022618	39.7457	68.7878	0.791353929
DR_B0004	hypothetical protein	7.74462	32.6474	2.075701744	8.34349	25.5204	1.612928061
DR_B0005	transposase	10.4083	41.6071	1.999095286	7.33584	52.7148	2.845173986
DR_B0006	hypothetical protein	13.5017	16.8179	0.316856503	21.4173	31.4554	0.554531092
DR_B0007	metal binding protein	110.903	639.379	2.527372969	31.4802	361.809	3.522711684
DR_B0008	cob(I)alamin adenosyltransferase	89.2112	490.032	2.457579214	13.4833	298.184	4.466957307
DR_B0009	cobyrinic acid a,c-diamide synthase	20.2332	362.896	4.164759741	10.6376	225.939	4.408688721
DR_B0010	cobalamin biosynthesis protein CobD	6.57478	294.963	5.487447564	9.30482	173.844	4.223671223
DR_B0011	histidinol-phosphate aminotransferase	2.64738	179.243	6.081207677	6.51484	84.6136	3.699087915
DR_B0012	cobyric acid synthase	5.45238	149.939	4.781345762	5.74286	76.9108	3.743344902
DR_B0013	hypothetical protein	61.5964	495.824	3.008910165	95.3558	177.666	0.897775021
DR_B0014	hemin ABC transporter, periplasmic hemin-binding protein	154.927	70.1776	-1.142506078	495.63	46.1703	-3.424226503
DR_B0015	hemin ABC transporter, permease	48.543	41.3589	-0.231065455	257.787	24.4676	-3.39723501
DR_B0016	hemin importer ATP-binding subunit	51.4917	40.195	-0.357323851	296.479	24.7507	-3.582388687
DR_B0017	iron-chelator utilization protein	57.286	60.3519	0.075216586	235.01	38.8886	-2.595302943
DR_B0020	transposase	8.53275	34.1544	2.000988764	6.9167	40.0326	2.533019529
DR_B0021	hypothetical protein	16.2899	42.1508	1.371582266	14.2688	74.3861	2.382169051
DR_B0022	hypothetical protein	6.62247	26.9972	2.027368478	12.4465	12.906	0.052301822
DR_B0023	hypothetical protein	200.844	30.9224	-2.699351162	73.3563	21.7059	-1.75683363
DR_B0024	sigma-B regulator RsbR	65.1835	118.77	0.865591749	128.932	48.103	-1.422411597
DR_B0025	sigma-B regulator RsbS	21.3639	67.1533	1.652283261	21.1272	58.62	1.472291389
DR_B0026	sigma-B regulator RsbT	0.769324	17.3036	4.491337095	0	23.7403	#DIV/0!
DR_B0027	TorS-related protein	6.61225	39.5681	2.581124614	7.70401	23.292	1.596153043
DR_B0028	sensor histidine kinase/response regulator	28.1229	61.6904	1.13330063	29.2882	40.0188	0.450358377
DR_B0029	sensor histidine kinase/response regulator	23.2943	95.773	2.039642016	20.2194	36.8888	0.867442672
DR_B0030	ParB family chromosome partitioning protein	45.2136	69.897	0.628473743	45.9623	31.7852	-0.532095827
DR_B0031	ParA family chromosome partitioning ATPase	50.8882	90.922	0.837298258	62.842	41.696	-0.591820107
DR_B0032	hypothetical protein	18.7114	47.4134	1.341377346	35.1997	55.3021	0.651771132
DR_B0033	arylesterase	72.242	47.3499	-0.609476455	44.3003	29.8616	-0.569025001
DR_B0034	GGDEF family protein	28.6039	50.3577	0.816000527	45.8309	33.4714	-0.453391721
DR_B0035	hypothetical protein	18.4148	26.5896	0.529996346	28.6079	18.8297	-0.603403584
DR_B0037	hypothetical protein	57.0564	79.1708	0.472579707	33.7307	54.8629	0.701768625
DR_B0038	hypothetical protein	10.9232	8.0235	-0.445091953	0	12.9743	#DIV/0!
DR_B0039	hypothetical protein	3.71586	10.6942	1.525060511	4.2326	6.16519	0.542601203
DR_B0040	hypothetical protein	9.89347	9.68813	-0.030258391	2.52441	10.8651	2.105683304
DR_B0041	hypothetical protein	7.40897	14.2618	0.944811181	5.44103	9.53378	0.809168551
DR_B0042	oligopeptide transport periplasmic protein	29.506	31.0549	0.073812568	40.1398	21.0226	-0.933092321
DR_B0043	integral membrane protein LmrP	32.2294	15.743	-1.033666842	48.4056	16.1043	-1.587728008
DR_B0044	GGDEF family protein	35.7706	31.2548	-0.194696547	50.4823	21.6259	-1.223017467
DR_B0045	hypothetical protein	1.55752	1.20542	-0.369714782	0	14.5975	#DIV/0!
DR_B0047	hypothetical protein	13.2391	19.1222	0.530443464	0	35.0544	#DIV/0!

DR_B0048	hypothetical protein	10.5542	5.68777	-0.891882196	14.0601	5.05727	-1.475176146
DR_B0049	ABC transporter, ATP-binding protein	3.71211	8.11689	1.1286876	4.27032	9.35106	1.130785729
DR_B0050	hypothetical protein	4.29579	17.4997	2.026334816	2.62926	8.98301	1.772542127
DR_B0051	hypothetical protein	58.1036	31.775	-0.870735428	59.9136	21.7238	-1.463607036
DR_B0052	hypothetical protein	0.804957	5.85868	2.863592029	0	11.4074	#DIV/0!
DR_B0054	hypothetical protein	140.167	55.7269	-1.330700925	141.04	32.7062	-2.108468326
DR_B0055	transposase, pseudogene	260.593	390.4	0.583154722	145.773	300.183	1.042118747
DR_B0057	transposase	13.9544	32.9847	1.24107689	12.3046	33.0945	1.427393715
DR_B0059	transposase	76.2214	95.0658	0.318730317	84.6585	81.3176	-0.058087291
DR_B0060	hypothetical protein	3.5483	20.809	2.55200774	3.23548	21.8117	2.753050553
DR_B0061	hypothetical protein	64.0343	24.7964	-1.36871421	40.0752	33.4616	-0.260203289
DR_B0062	hypothetical protein	13.0821	26.2026	1.002115825	7.27161	15.0884	1.053093098
DR_B0063	hypothetical protein	9.55569	13.276	0.474388578	15.2379	15.5868	0.032660678
DR_B0064	hypothetical protein	5.65827	7.62295	0.429988393	0	8.90163	#DIV/0!
DR_B0065	hypothetical protein	14.0815	20.9994	0.576547085	16.5455	15.7367	-0.072305852
DR_B0066	hypothetical protein	6.98094	26.5602	1.927772793	13.6121	15.9157	0.225560956
DR_B0067	extracellular nuclease	25.2184	149.636	2.568908655	28.4221	90.0923	1.664390653
DR_B0068	hypothetical protein	60.9856	63.3476	0.05482133	158.764	50.5231	-1.651868748
DR_B0069	serine protease	147.811	125.867	-0.231853553	93.0817	106.008	0.187603679
DR_B0070	hypothetical protein	24.8351	70.2577	1.500275792	16.7029	32.1343	0.944015437
DR_B0071	hypothetical protein	66.0179	115.072	0.801607678	114.072	51.2407	-1.154582623
DR_B0072	salicylate monooxygenase-related protein PTS system, fructose-specific IIBC component	0	40.4579	#DIV/0!	7.77419	27.329	1.813668398
DR_B0073		4.02623	51.0375	3.664056168	6.30368	33.6528	2.416460341
DR_B0074	1-phosphofructokinase	3.3621	62.394	4.213972761	3.50756	41.3151	3.558129472
DR_B0076	glycerol-3-phosphate regulon repressor	25.8739	122.038	2.237761007	28.3581	33.9292	0.258766539
DR_B0077	hypothetical protein	45.9863	42.9047	-0.100068428	40.9318	30.4312	-0.427670886
DR_B0079	N-acylamino acid racemase	15.1384	24.8635	0.715816664	15.4291	16.102	0.061585984
DR_B0080	3-alpha-hydroxysteroid dehydrogenase	19.6578	43.9459	1.160626702	43.2964	26.7315	-0.695706278
DR_B0081	DNA-binding response regulator	14.1148	18.0618	0.355732989	14.7874	11.8628	-0.31792384
DR_B0083	potassium-transporting ATPase subunit B	4.30543	12.9176	1.585108815	3.31282	11.7456	1.82598869
DR_B0084	hypothetical protein	63.9921	32.743	-0.9667073	142.001	86.5005	-0.715120712
DR_B0085	hypothetical protein	8.20011	9.11269	0.152233727	11.7658	30.6562	1.38157946
DR_B0086	potassium-transporting ATPase subunit A	3.19351	11.2216	1.81306352	4.8928	17.473	1.836395114
DR_B0087	potassium-transporting ATPase subunit C	7.33694	10.0225	0.449992025	4.21775	15.9107	1.91545182
DR_B0088	KdpD-related protein	0.871897	5.26998	2.595567867	1.47132	3.79942	1.368668146
DR_B0089	hypothetical protein	1079.73	216.816	-2.316127464	593.923	136.757	-2.118661223
DR_B0090	sensor histidine kinase, copper metabolism	14.9281	27.9766	0.906190087	32.8361	16.1916	-1.020037231
DR_B0091	response regulator	12.0861	53.7526	2.152985755	13.8882	22.8214	0.716527669
DR_B0092	Dps family DNA-binding stress response protein	46.7949	63.2051	0.433689669	26.9486	19.7316	-0.449702379
DR_B0093	GGDEF family protein	8.09048	22.3561	1.466371329	13.2846	13.3404	0.006047136
DR_B0094	hypothetical protein	15.0376	12.0286	-0.322105593	9.53427	9.37063	-0.024976436

DR_B0095	hypothetical protein	34.8395	26.3001	-0.405655634	27.6517	16.3665	-0.756622346
DR_B0096	hypothetical protein	20.194	40.3378	0.998205696	31.6249	31.9333	0.014000731
DR_B0097	hypothetical protein	57.08	39.7346	-0.522589514	21.5907	20.0313	-0.108153965
DR_B0098	hypothetical protein	63.8267	15.7906	-2.015094068	8.92001	19.5389	1.131232016
DR_B0099	hypothetical protein	82.7026	34.0143	-1.281791286	14.8657	28.4033	0.934071158
DR_B0100	hypothetical protein	159.412	48.4564	-1.718001104	36.7307	36.4363	-0.011609926
DR_B0102	transposase	8.55063	30.1787	1.819428036	9.84465	38.0477	1.950397424
DR_B0103	transposase	174.804	268.891	0.62128327	251.237	172.05	-0.546221055
DR_B0104	integrase/recombinase XerD	22.6379	85.0749	1.909993417	34.7174	26.175	-0.407469371
DR_B0105	hypothetical protein	722.048	1470.36	1.026002773	406.706	867.758	1.093306486
DR_B0106	acyl-CoA thioesterase	882.329	1455.87	0.722492929	212.411	702.211	1.725046116
DR_B0107	ribonucleotide reductase	111.976	487.128	2.121111361	63.3817	253.39	1.999221329
DR_B0108	ribonucleoside-diphosphate reductase, alpha chain	154.218	393.924	1.352946153	38.0959	274.655	2.849912912
DR_B0109	ribonucleotide-diphosphate reductase subunit beta	68.4117	247.685	1.856191515	30.5073	123.744	2.020132167
DR_B0110	thioredoxin-related protein	30.7217	165.591	2.430294308	40.6372	96.625	1.249595509
DR_B0111	glycerophosphoryl diester phosphodiesterase	8.06823	79.6169	3.302750583	8.43024	58.6719	2.799024103
DR_B0112	hypothetical protein	295.84	198.124	-0.578413476	580.27	79.4351	-2.868875806
DR_B0114	transposase	62.7412	148.863	1.246500188	57.9322	104.333	0.848758189
DR_B0115	hypothetical protein	49.805	44.9549	-0.147812209	97.7932	61.5906	-0.667023969
DR_B0116	hypothetical protein	71.8515	94.1873	0.390514268	176.503	69.6291	-1.341930424
DR_B0117	transposase	12.6628	27.5146	1.119600906	10.8286	30.9342	1.514355991
DR_B0118	dessication-associated protein	7.17034	15.4382	1.106391118	14.5546	16.5859	0.188482108
DR_B0119	Na ⁺ /H ⁺ antiporter	4.62131	11.4587	1.310069604	7.45845	19.5243	1.388323076
DR_B0121	iron ABC transporter ATP-binding protein	9.67767	31.3136	1.694057728	19.1699	15.2437	-0.33062969
DR_B0122	iron ABC transporter permease	5.4722	12.6113	1.204524135	11.556	8.52147	-0.439467879
DR_B0123	iron ABC transporter permease	32.2789	23.0544	-0.485549296	59.3321	15.6068	-1.926638087
DR_B0124	iron-chelator utilization protein	292.968	49.9331	-2.552674711	555.474	29.9572	-4.212744694
DR_B0125	iron ABC transporter substrate-binding protein	903.057	82.3371	-3.455202511	3116.63	55.5601	-5.809793885
DR_B0126	TetR family transcriptional regulator	16.4944	26.6028	0.689601801	32.7785	18.1508	-0.852716699
DR_B0127	hypothetical protein	12.563	38.9019	1.630659603	15.5484	23.2297	0.579204394
DR_B0128	hemolysin	41.0591	70.472	0.779348154	60.3132	38.4146	-0.65081905
DR_B0129	hemolysin	9.87725	49.3302	2.320289805	43.45	31.6781	-0.455870369
DR_B0130	hypothetical protein	45.609	128.192	1.490915788	83.5994	130.574	0.643303162
DR_B0131	hypothetical protein	24.2719	46.2253	0.929395636	27.4668	21.5555	-0.349632812
DR_B0132	transposase	77.9712	209.757	1.427705714	74.9518	119.092	0.668041473
DR_B0133	Na ⁽⁺⁾ -linked D-alanine glycine permease	4.15951	18.8715	2.181723609	7.42029	25.9445	1.805881256
DR_B0134	transposase	10.9139	25.2138	1.208046835	11.3755	33.2867	1.549015892
DR_B0135	RNA helicase	2.63304	15.0102	2.511141856	2.62752	11.793	2.166157119
DR_B0136	ATP-dependent helicase HepA	2.40414	10.7948	2.166743698	2.83399	9.09718	1.682584732
DR_B0137	hypothetical protein	3.2073	9.54925	1.574028123	2.05954	9.01101	2.129366673
DR_B0138	hypothetical protein	7.31217	16.8835	1.207242493	12.7023	20.2161	0.670414957

DR_B0140	hypothetical protein	17.0135	75.6189	2.152066902	27.8902	40.2529	0.529334445
DR_B0141	HicB-related protein	431.099	328.188	-0.393496727	237.546	271.5	0.192745284
DR_B0142	hypothetical protein	214.875	333.293	0.633293378	98.0452	203.418	1.052928438
DR_B0143	McrB-related protein	11.8061	133.889	3.503433065	20.2295	52.547	1.377147738
DR_B0144	hypothetical protein	2.10595	48.5516	4.526975751	4.71563	25.7182	2.447267242
DR_B0145	hypothetical protein	33.6688	59.544	0.822543839	35.3464	39.653	0.165866734
DR_C0001	cytochrome P450-related protein	103.411	419.882	2.021594287	37.2967	441.242	3.56445023
DR_C0002	phosphoenolpyruvate synthase-related protein	106.379	475.625	2.160611168	89.8159	275.704	1.618077427
DR_C0003	phosphoenolpyruvate synthase-related protein	185.108	471.73	1.349594106	62.8814	394.999	2.651143757
DR_C0005	resolvase	22.0899	140.858	2.672782711	36.767	69.2893	0.914221117
DR_C0006	hypothetical protein	21.8101	58.5244	1.424041854	16.8775	34.4352	1.028782837
DR_C0007	hypothetical protein	24.7044	60.8211	1.299803892	14.2566	34.3621	1.269188248
DR_C0008	hypothetical protein	206.922	103.172	-1.004035552	211.4	94.0627	-1.168280727
DR_C0009	hypothetical protein	44.3744	48.2757	0.121569566	23.9596	42.5388	0.828175513
DR_C0010	hypothetical protein	19.5797	47.3084	1.272737709	21.0097	33.6911	0.681311971
DR_C0012	GerE family transcriptional regulator	2.09938	16.3951	2.96522947	1.83521	21.9594	3.580821573
DR_C0013	N-acetylmuramoyl-L-alanine amidase, putative	25.197	35.4425	0.492228396	13.0551	32.2798	1.306018131
DR_C0014	hypothetical protein	269.01	209.59	-0.360089919	329.021	187.941	-0.807899838
DR_C0015	hypothetical protein	66.1083	97.9952	0.567879669	41.2991	48.3605	0.227718818
DR_C0016	hypothetical protein	33.2539	58.659	0.818828928	8.48041	51.7475	2.609283244
DR_C0018	integrase/recombinase XerD, putative	4.39988	8.21261	0.900376612	6.29346	18.883	1.585162687
DR_C0019	transposase-related	55.6881	82.9922	0.575606681	86.7876	134.523	0.632292024
DR_C0021	hypothetical protein	14.7571	85.4512	2.533691515	0	32.2887	#DIV/0!
DR_C0022	hypothetical protein	13.3068	66.7121	2.32578478	7.96071	59.1119	2.89247958
DR_C0023	hypothetical protein	32.2297	127.592	1.98507521	22.2211	88.2427	1.989546699
DR_C0024	hypothetical protein	96.9009	103.849	0.099905354	38.7822	85.1854	1.135211541
DR_C0025	ParA family chromosome partitioning ATPase	53.789	167.247	1.63659726	63.2447	104.187	0.720158786
DR_C0026	hypothetical protein	56.8584	147.787	1.378073962	41.7761	115.838	1.471358878
DR_C0027	hypothetical protein	338.84	216.585	-0.645670865	295.85	261.296	-0.179180855
DR_C0028	transposase, putative	24.72	120.963	2.290815177	15.5839	53.4851	1.779080713
DR_C0029	transposase, putative	6.46732	25.1445	1.959002964	7.84281	31.588	2.00993404
DR_C0030	hypothetical protein	44.473	91.3591	1.038618711	96.2062	54.1282	-0.829749458
DR_C0033	transposase, putative	138.299	222.623	0.686811926	72.0835	167.498	1.216402902
DR_C0034	coenzyme PQQ synthesis protein, putative	47.9256	141.221	1.559086239	23.5698	132.303	2.488834354
DR_C0035	hypothetical protein	31.4074	162.61	2.372239559	7.77419	79.2541	3.349721299
DR_C0036	oxidative cyclase, putative	231.974	295.721	0.350273582	564.654	245.125	-1.203849475
DR_C0037	nodulation protein-related protein	58.7606	175.587	1.579265003	55.2948	82.8713	0.58372874
DR_C0038	hypothetical protein	115.29	283.896	1.30009514	74.1964	208.513	1.490716239
DR_C0039	hypothetical protein	33.8737	246.617	2.864034767	26.5103	148.959	2.490290391
DR_C0040	multidrug-efflux transporter, putative	111.886	412.319	1.881731416	60.4731	417.346	2.786878502
DR_C0041	hypothetical protein	117.843	384.287	1.705318109	59.8179	330.105	2.464275822

Table S2: Effect of G4 DNA stabilizing drug NMM on gamma radiation responsive change in gene expression. Fold change of gene expression as FPKM values obtained after gamma radiation (Irr) and corresponding SHAM (UnIrr) control was calculated as function of NMM treatment. Data set was obtained from RNAseq data. Candidate genes encoding proteins for respective metabolic functions are listed in group.

Proteins involved in DNA repair

Gene_id	Product	NMM non-treated FPKM values			NMM treated PFKM values		
		UnIrr Control	Log2 fold change	Log2 fold change	UnIrr Control	Irr-1h	Log2 fold change
DR_0423	Single-stranded DNA-binding protein DdrA (DdrA)	26.6833	5329.45	7.641905744	41.6746	1487.4	5.157480515
DR_0070	Single-stranded DNA-binding protein DdrB (DdrB)	63.8175	1773.14	4.796210547	98.0293	524.962	2.420928069
DR_0099	single-stranded DNA-binding protein (ssb)	2104.24	10104.1	2.263569656	983.502	3792.62	1.947194937
DR_2340	recombinase A	62.2963	1993.23	4.999817904	51.83	840.683	4.019702601
DR_0906	DNA gyrase subunit B	437.211	2013.1	2.203017235	121.238	845.412	2.801812632
DR_1913	DNA gyrase subunit A	517.761	1503.61	1.538072211	229.979	685.498	1.575650326
DR_1771	excinuclease ABC subunit A (uvrA)	49.0126	365.692	2.899404481	68.8859	236.78	1.781266608
DR_2275	excinuclease ABC subunit B (uvrB)	60.803	261.658	2.105467956	38.2073	107.064	1.486553244
DR_0596	Holliday junction DNA helicase RuvB	15.9953	541.735	5.081867346	33.6284	167.708	2.318199466
DR_A0346	Pleotropic protein promoting DNA repair (PprA)	34.2436	1279.32	5.223398986	45.5936	517.427	3.504452106
DR_1105	DNA repair protein RadaA	6.08102	53.1435	3.127508006	5.09272	27.7155	2.44418473
DR_2199	ATP-dependent DNA helicase RecG-like protein	9.97597	66.2815	2.73207722	14.7629	27.8341	0.914877285
DR_1696	DNA mismatch repair protein MutL	7.34847	120.41	4.034367499	15.3044	46.9062	1.615832143
DR_1289	DNA helicase RecQ	20.1658	119.33	2.564974242	19.8863	82.3588	2.050147933
DR_0167	pprI/ IrrE	56.9792	63.2037	0.149573651	25.0561	55.3732	1.144026022
DR_0326	DNA damage response protein D (ddrD)	56.4393	1504.75	4.736679912	119.411	608.505	2.349333375

Proteins involved in transcriptional regulation

gene_id	Product	NMM non-treated			NMM treated		
		S1 (UnIrr-C) FPKM values	S7 (Irr-1h) FPKM values	Log2 fold change	S11 (UnIrr) FPKM values	S13 (Irr-1h) FPKM values	Log2 fold change
DR_2574	Transcriptional regulator DdrO (DdrO)	130.198	11213.2	6.428346953	250.657	4038.38	4.009990241
DR_0997	CRP/FNR family transcriptional regulator	468.853	124.344	-1.914798769	301.257	65.2304	-2.207378384

Proteins involved in cellular detoxification

gene_id	Product	NMM non-treated			NMM treated		
		S1 (UnIrr-C) FPKM values	S7 (Irr-1h) FPKM values	Log2 fold change	S11 (UnIrr) FPKM values	S13 (Irr-1h) FPKM values	Log2 fold change

DR_1998	Catalase (katA)	6794.68	1106.95	-2.61781555	1289.8	525.034	-1.296664618
DR_2623	Thioredoxin reductase (TrxR2)	231.286	264.177	0.191826926	179.449	114.326	-0.650420345
DR_2107	ABC transporter ATP-binding protein (sufC)	1273.12	845.192	-0.591017392	843.228	336.162	-1.326766123
DR_2220	tellurium resistance protein TerB	112.967	322.157	1.51186255	7.17715	182.289	4.666672623
DR_2221	tellurium resistance protein TerD	504.238	384.437	-0.391357651	262.79	325.533	0.308893422
DR_1982	Thioredoxin–disulfide reductase (TrxR1)	374.734	342.3	-0.130605588	338.631	116.313	-1.541701699
DR_1279	Mn family superoxide dismutase (SOD)	3966.1	2111.47	-0.909473304	1362.03	871.139	-0.64478364

Proteins involved in protein synthesis, stabilization and turnover

gene_id	Product	NMM non-treated			NMM treated		
		S1 (UnIrr-C) FPKM values	S7 (Irr-1h) FPKM values	Log2 fold change	S11 (UnIrr) FPKM values	S13 (Irr-1h) FPKM values	Log2 fold change
DR_0607	chaperonin GroEL	1677.64	1783.49	0.088269961	1669.42	605.811	-1.462407281
DR_0129	molecular chaperone DnaK	379.332	556.887	0.553923534	347.283	265.122	-0.389455399
DR_1046	ATP-dependent Clp protease, ATP-binding subunit ClpB	118.735	90.1477	-0.397382678	91.5807	64.8502	-0.497932569
DR_0139	GTP-binding protein HflX	178.967	1275.04	2.832777011	254.864	1533.8	2.589310865
DR_2308	GTP-binding protein EngA	498.364	1335.49	1.422097411	158.43	552.049	1.800950779
DR_0309	elongation factor Tu	1845.66	6243.66	1.758255167	726.307	2710.95	1.900147115
DR_1799	translation initiation factor IF-2 (InfB)	44.3691	590.86	3.73518914	14.3147	282.046	4.300361136
DR_2044	50S ribosomal protein L10	1366.18	8057.23	2.560136362	512.847	2630.69	2.358840862
DR_1512	elongation factor Ts	285.838	3316.6	3.536435396	177.738	1341.72	2.916259566
DR_1198	GTP-binding elongation factor family protein TypA/BipA	105.26	1581.67	3.909419422	39.4457	532.405	3.754584175
DR_0237	cyclophilin-type peptidyl-prolyl cis-trans isomerase	812.442	635.246	-0.354949437	432.206	223.767	-0.949721809

Protein involved in metabolism

gene_id	Product	NMM non-treated			NMM treated		
		S1 (UnIrr-C) FPKM values	S7 (Irr-1h) FPKM values	Log2 fold change	S11 (UnIrr) FPKM values	S13 (Irr-1h) FPKM values	Log2 fold change
DR_A0274	flavin monoamine oxidase-like protein	965.477	144.329	-2.741880682	301.313	68.7151	-2.13256385
DR_0970	electron transfer flavoprotein subunit alpha	523.171	701.243	0.422631892	413.349	251.793	-0.715122221
DR_0971	electron transfer flavoprotein subunit beta	373.086	610.119	0.709582435	275.056	182.223	-0.594020308
DR_0700	V-type ATP synthase subunit A	105.739	816.423	2.948809238	69.7119	453.395	2.701291627
DR_1928	glycerol kinase	38.7845	39.852	0.039171926	50.6438	54.5411	0.106958137
DR_1511	uridylyate kinase	13.3	220.648	4.05224852	4.79683	153.282	4.997963169

Proteins involved in cell division

gene_id	Product	NMM non-treated			NMM treated		
		S1 (UnIrr-C) FPKM values	S7 (Irr-1h) FPKM values	Log2 fold change	S11 (UnIrr) FPKM values	S13 (Irr-1h) FPKM values	Log2 fold change
DR_0630	cell division protein FtsA	104.429	410.095	1.973435749	118.525	168.064	0.503819333
DR_0631	cell division protein FtsZ	71.0278	445.704	2.649630203	88.7703	154.187	0.796532154
DR_0400	cell division protein FtsK	31.5082	48.9158	0.634573198	54.2912	28.1642	-0.94685588
DR_0583	cell division protein FtsH	105.63	97.9634	-0.108704882	253.735	43.4381	-2.546289632
DR_1369	minicell-associated protein DivIVA	8.63321	53.4669	2.630677045	8.35202	29.5324	1.822101533
DR_1753	septum site-determining protein (minC)	7.9495	55.0368	2.791460563	17.9596	22.3735	0.317035744
DR_0752	septum site-determining protein (minD)	32.9883	243.492	2.883848035	81.4749	82.558	0.019052345
DR_A0001	ParA family chromosome partitioning ATPase	39.3693	103.242	1.390887028	44.466	48.1074	0.113556199
DR_B0002	ParB family chromosome partitioning protein	119.301	179.207	0.587020856	64.7153	85.9205	0.408895554

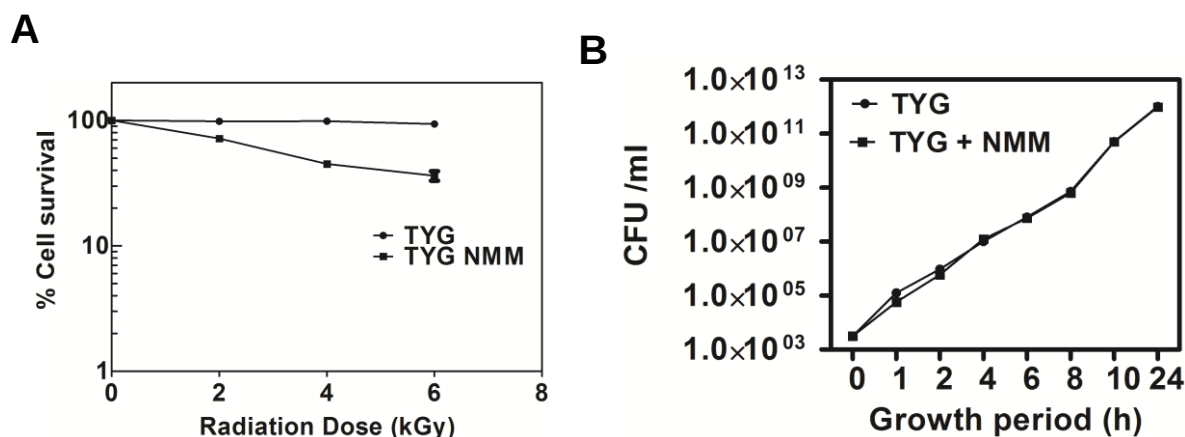


Fig S1

Figure S1. Determination of survival of *D. radiodurans* towards NMM treatment.

D. radioaurans was grown in presence and absence of NMM and subjected to different doses (2, 4 and 6 kGy) of radiation and plated on TYG (TYG) and TYG containing 50nM NMM (TYG NMM) for checking the cell survival. Colony forming units were measured after 48 h of growth at 32°C and percentage cell survival was plotted. One hundred percent cells for TYG and TYG NMM correspond to $\sim 2.56 \times 10^8$ and $\sim 2.03 \times 10^8$ cells mL^{-1} respectively (A). Effect of G4 DNA binding drug on growth was monitored by growing *D. radiodurans* on TYG and TYG containing 50nM NMM and plated at different time intervals. Colony forming units were recorded 48 h after incubation at 32°C (B). The values represented here are the mean ($\pm$ standard deviation, SD) of three independent experiments.

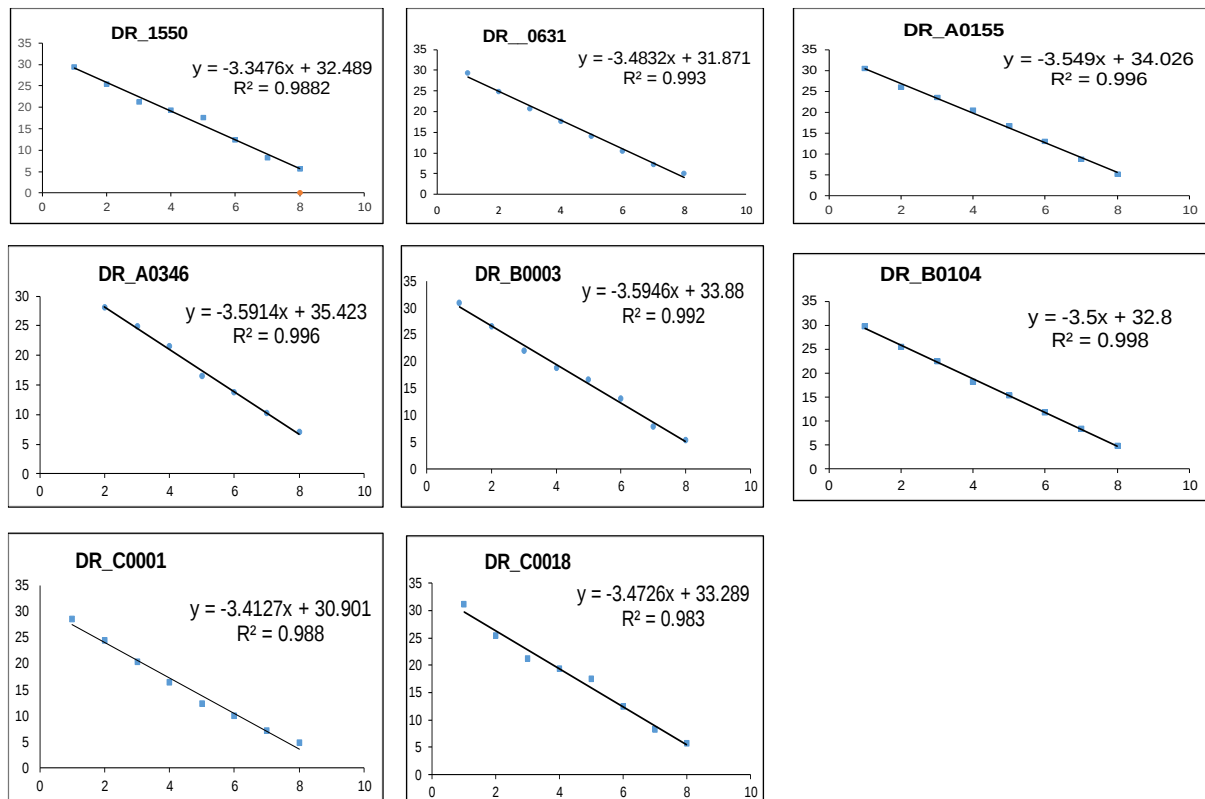


Fig S2

Figure S2. Standard graph for estimating PCR efficiency for the genes taken for copy number determination. Two genes from each replicon (*ftsE*, *ftsZ*, DR_A0155, *pprA* DR_B0003, DR_B0104, DR_C0001 and DR_C0018) were selected for copy number estimation. The PCR efficiency of these genes was determined by the amplification of ~300 bps fragment with gene specific primers (Table 2) using standard PCR protocols taking genomic DNA of *D. radiodurans* as template. All the PCR products obtained were gel purified and quantitated by Nano drop. The concentration of DNA molecules was estimated by molecular mass computed with ‘oligo calc’ (www.basic.northwestern.edu/biotools). Different dilutions were made for each fragment and used for qPCR analysis. A standard graph for each gene was generated by plotting cycle threshold (Ct) values against the dilution series.

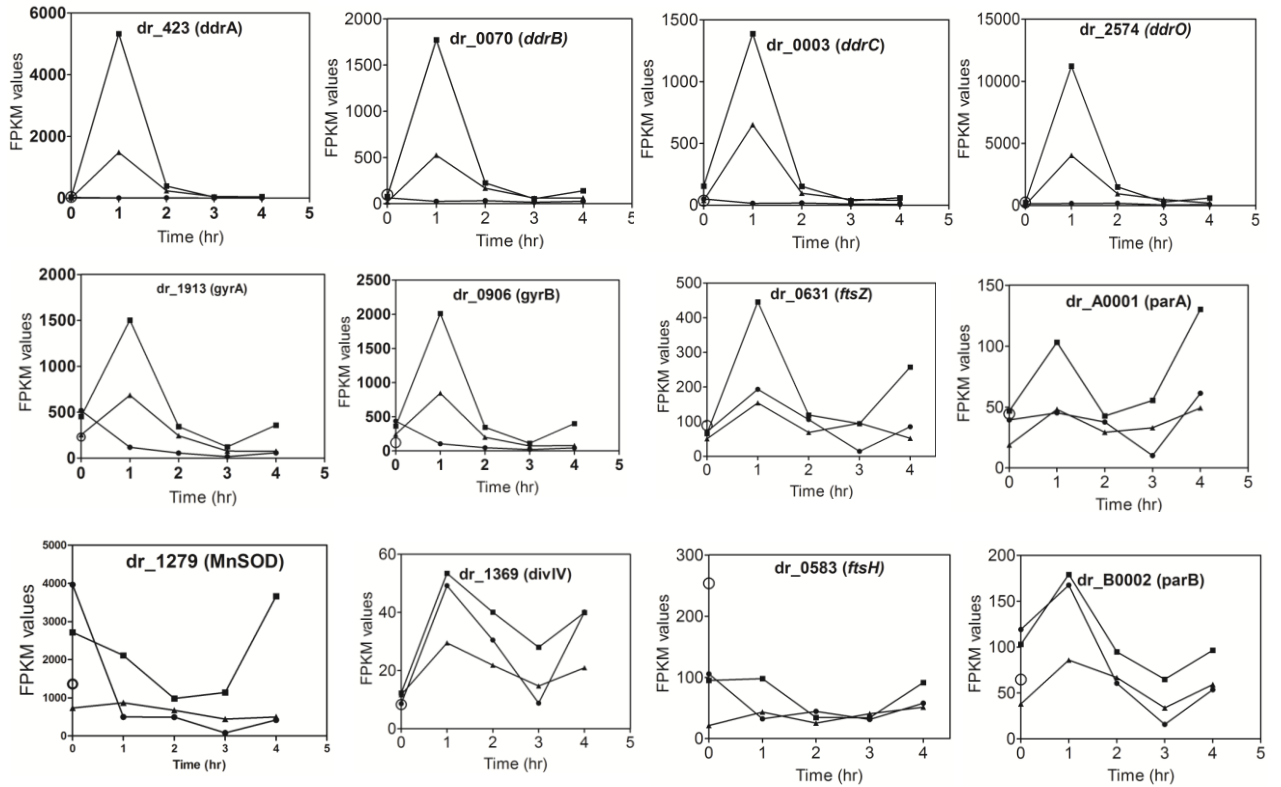


Fig S3

Figure S3. Effect of G4 DNA structure dynamics arrest on γ radiation inducible expression of few other DNA damage repair genes. FPKM (Fragments Per Kilobase Million) values representing the levels of transcript of the DNA damage responsive genes like *ddrA*, *ddrB*, *ddrC*, *ddrO*, *gyrA*, *gyrB*, *ftsA*, *ftsZ*, *divIVA*, *soda*, *parA*, *parB*, *ftsH* were calculated in cells grown under unirradiated (●), irradiated (■), irradiated followed by NMM (▲) and unirradiated followed by NMM (⊙). Fold change was computed with respective controls and plotted.

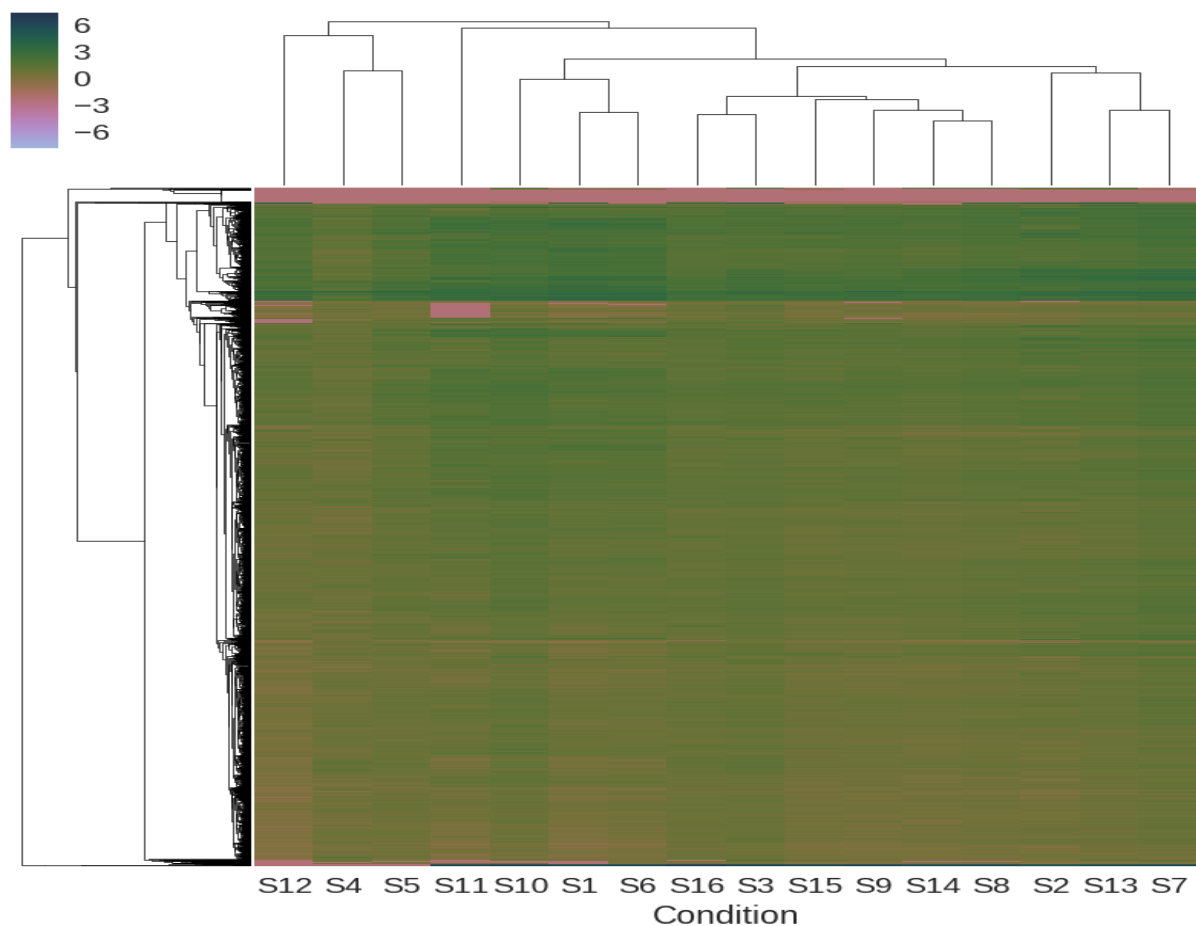


Fig S4

Figure S4. A bi-clustered heat map. Bi-clustered heat map plotted with expression profile of all genes of all samples. Total RNAseq of unirradiated samples S1(0h), S2(1h), S3(2h), S4(3h), S5(4h), irradiated samples S6(0h PIR), S7(1h PIR), S8(2h PIR), S9(3h PIR), S10(4h PIR), NMM treated un irradiated sample S11 and NMM treated irradiated samples S12(0h PIR), S13(1h PIR), S14(2h PIR), S15(3h PIR), S16(4h PIR) was done as described in materials and methods to check differential expression of genes in response to γ radiation treatment.

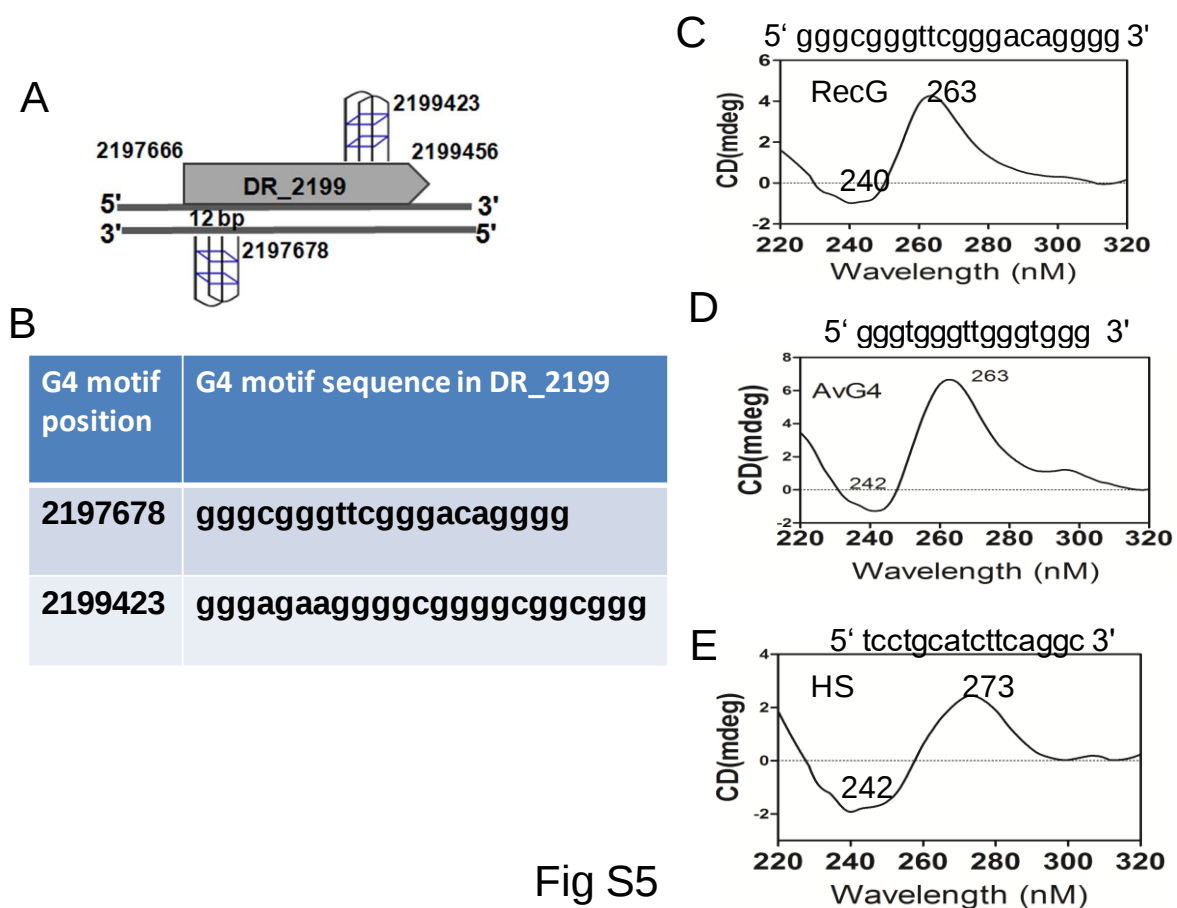


Fig S5

Figure S5. *In vitro* Characterization of G4 DNA structures formation. Schematic representation and position of putative G4 DNA motifs present in the DR_2199 (RecG) encoding sequence (A). 20 bp DNA motif present in template strand of DR_2199 coding sequence (B) was characterized for formation of G4 DNA structure by circular dichroism (C). A known G4 DNA forming DNA motif (AvG4) (D) and non D4 DNA forming sequence(HS) (E) were used as positive and negative controls, respectively.