

Table S3A. Classification of succinylated proteins according to their GO function.

Protein_ID	Type	GO_Term	GO_ID
gi 15607148	biological_process	ATP catabolic process	GO:0006200
gi 15607148	biological_process	DNA topological change	GO:0006265
gi 15607151	biological_process	response to iron ion	GO:0010039
gi 15607196	biological_process	cellular response to DNA damage stimulus	GO:0006974
gi 15607196	biological_process	response to antibiotic	GO:0046677
gi 15607196	biological_process	protein homotetramerization	GO:0051289
gi 15607208	biological_process	glyoxylate cycle	GO:0006097
gi 15607208	biological_process	tricarboxylic acid cycle	GO:0006099
gi 15607208	biological_process	isocitrate metabolic process	GO:0006102
gi 15607269	biological_process	growth	GO:0040007
gi 15607279	biological_process	response to oxidative stress	GO:0006979
gi 15607279	biological_process	response to nitrosative stress	GO:0051409
gi 15607330	biological_process	branched-chain amino acid biosynthetic process	GO:0009082
gi 15607330	biological_process	growth	GO:0040007
gi 15607331	biological_process	negative regulation of transcription, DNA-templated	GO:0045892
gi 15607331	biological_process	response to copper ion	GO:0046688
gi 15607352	biological_process	cellular response to iron ion starvation	GO:0010106
gi 15607352	biological_process	response to host immune response	GO:0052572
gi 15607382	biological_process	fatty acid metabolic process	GO:0006631
gi 15607382	biological_process	fatty acid biosynthetic process	GO:0006633
gi 15607383	biological_process	long-chain fatty-acyl-CoA metabolic process	GO:0035336
gi 15607383	biological_process	short-chain fatty acid metabolic process	GO:0046459
gi 15607383	biological_process	response to antibiotic	GO:0046677
gi 15607384	biological_process	growth of symbiont in host cell	GO:0044119
gi 15607385	biological_process	response to host immune response	GO:0052572
gi 15607475	biological_process	glucose metabolic process	GO:0006006
gi 15607475	biological_process	dTDP-rhamnose biosynthetic process	GO:0019305
gi 15607475	biological_process	growth	GO:0040007
gi 15607475	biological_process	dTTP metabolic process	GO:0046075
gi 15607488	biological_process	growth	GO:0040007
gi 15607491	biological_process	response to heat	GO:0009408
gi 15607491	biological_process	growth	GO:0040007
gi 15607491	biological_process	response to antibiotic	GO:0046677
gi 15607491	biological_process	response to copper ion	GO:0046688
gi 15607491	biological_process	protein autophosphorylation	GO:0046777
gi 15607491	biological_process	cellular response to superoxide	GO:0071451
gi 15607492	biological_process	cellular response to starvation	GO:0009267
gi 15607492	biological_process	growth	GO:0040007
gi 15607498	biological_process	growth	GO:0040007
gi 15607504	biological_process	glycolysis	GO:0006096
gi 15607504	biological_process	protein homotetramerization	GO:0051289
gi 15607506	biological_process	growth of symbiont in host cell	GO:0044119
gi 15607525	biological_process	growth	GO:0040007
gi 15607541	biological_process	growth	GO:0040007
gi 15607548	biological_process	oxidation-reduction process	GO:0055114
gi 15607551	biological_process	negative regulation of cytolysis by symbiont of host cells	GO:0001899
gi 15607551	biological_process	glutamate catabolic process	GO:0006538
gi 15607551	biological_process	glutamine catabolic process	GO:0006543
gi 15607551	biological_process	pathogenesis	GO:0009405
gi 15607551	biological_process	growth	GO:0040007
gi 15607551	biological_process	avoidance of host defenses	GO:0044413
gi 15607551	biological_process	protein autophosphorylation	GO:0046777
gi 15607551	biological_process	modulation by symbiont of host signal transduction pathway	GO:0052027
gi 15607551	biological_process	modulation by symbiont of host phagocytosis	GO:0052190
gi 15607551	biological_process	positive regulation by symbiont of defense-related host reactive oxygen species production	GO:0052369
gi 15607563	biological_process	growth	GO:0040007
gi 15607564	biological_process	growth	GO:0040007
gi 15607573	biological_process	response to oxidative stress	GO:0006979
gi 15607573	biological_process	response to hydroperoxide	GO:0033194
gi 15607573	biological_process	cell redox homeostasis	GO:0045454
gi 15607573	biological_process	evasion or tolerance by symbiont of host-produced reactive oxygen species	GO:0052059
gi 15607573	biological_process	evasion or tolerance by symbiont of host-produced nitric oxide	GO:0052060
gi 15607573	biological_process	response to host	GO:0075136
gi 15607581	biological_process	response to hypoxia	GO:0001666
gi 15607581	biological_process	response to heat	GO:0009408
gi 15607581	biological_process	growth	GO:0040007
gi 15607581	biological_process	adhesion to host	GO:0044406
gi 15607586	biological_process	regulation of gene expression	GO:0010468
gi 15607586	biological_process	regulation of fatty acid metabolic process	GO:0019217
gi 15607603	biological_process	growth	GO:0040007
gi 15607603	biological_process	cell redox homeostasis	GO:0045454
gi 15607603	biological_process	oxidation-reduction process	GO:0055114

gi 15607609	biological_process	fatty acid beta-oxidation	GO:0006635
gi 15607609	biological_process	fatty acid elongation	GO:0030497
gi 15607609	biological_process	response to host immune response	GO:0052572
gi 15607616	biological_process	heterophilic cell-cell adhesion	GO:0007157
gi 15607616	biological_process	positive regulation by symbiont of host receptor-mediated endocytosis	GO:0044078
gi 15607641	biological_process	proline biosynthetic process	GO:0006561
gi 15607641	biological_process	growth	GO:0040007
gi 15607641	biological_process	protein homooligomerization	GO:0051260
gi 15607644	biological_process	response to hypoxia	GO:0001666
gi 15607644	biological_process	S-adenosylmethionine metabolic process	GO:0046500
gi 15607644	biological_process	modulation by symbiont of host innate immune response	GO:0052167
gi 15607644	biological_process	Actinobacterium-type cell wall biogenesis	GO:0071766
gi 15607644	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15607644	biological_process	mycolate cell wall layer assembly	GO:0071769
gi 15607651	biological_process	growth	GO:0040007
gi 15607688	biological_process	menaquinone biosynthetic process	GO:0009234
gi 15607688	biological_process	protein hexamerization	GO:0034214
gi 15607688	biological_process	protein homooligomerization	GO:0051260
gi 15607776	biological_process	fatty acid biosynthetic process	GO:0006633
gi 15607776	biological_process	growth	GO:0040007
gi 15607776	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15607780	biological_process	growth	GO:0040007
gi 15607782	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15607784	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15607791	biological_process	growth	GO:0040007
gi 15607792	biological_process	growth	GO:0040007
gi 15607795	biological_process	cholesterol import	GO:0070508
gi 15607807	biological_process	growth	GO:0040007
gi 15607808	biological_process	growth	GO:0040007
gi 15607823	biological_process	growth	GO:0040007
gi 15607825	biological_process	response to hypoxia	GO:0001666
gi 15607825	biological_process	response to iron ion	GO:0010039
gi 15607825	biological_process	growth	GO:0040007
gi 15607840	biological_process	growth	GO:0040007
gi 15607841	biological_process	growth	GO:0040007
gi 15607842	biological_process	growth	GO:0040007
gi 15607844	biological_process	growth	GO:0040007
gi 15607845	biological_process	growth	GO:0040007
gi 15607846	biological_process	growth	GO:0040007
gi 15607847	biological_process	growth	GO:0040007
gi 15607854	biological_process	growth	GO:0040007
gi 15607855	biological_process	growth	GO:0040007
gi 15607856	biological_process	growth	GO:0040007
gi 15607858	biological_process	growth	GO:0040007
gi 15607859	biological_process	growth	GO:0040007
gi 15607862	biological_process	growth	GO:0040007
gi 15607873	biological_process	purine nucleobase metabolic process	GO:0006144
gi 15607873	biological_process	nucleoside monophosphate metabolic process	GO:0009123
gi 15607873	biological_process	nucleoside diphosphate metabolic process	GO:0009132
gi 15607873	biological_process	nucleoside triphosphate metabolic process	GO:0009141
gi 15607873	biological_process	AMP salvage	GO:0044209
gi 15607912	biological_process	growth	GO:0040007
gi 15607913	biological_process	glutathione catabolic process	GO:0006751
gi 15607938	biological_process	growth	GO:0040007
gi 15607951	biological_process	growth	GO:0040007
gi 15607961	biological_process	dormancy process	GO:0022611
gi 15608024	biological_process	growth	GO:0040007
gi 15608043	biological_process	growth involved in symbiotic interaction	GO:0044110
gi 15608043	biological_process	response to host immune response	GO:0052572
gi 15608050	biological_process	negative regulation of growth	GO:0045926
gi 15608067	biological_process	positive regulation by symbiont of host immune response	GO:0052556
gi 15608071	biological_process	pathogenesis	GO:0009405
gi 15608071	biological_process	cellular response to phosphate starvation	GO:0016036
gi 15608071	biological_process	negative regulation of protein binding	GO:0032091
gi 15608071	biological_process	positive regulation of catalytic activity	GO:0043085
gi 15608071	biological_process	negative regulation of catalytic activity	GO:0043086
gi 15608071	biological_process	negative regulation of fatty acid biosynthetic process	GO:0045717
gi 15608086	biological_process	glycolysis	GO:0006096
gi 15608086	biological_process	growth	GO:0040007
gi 15608091	biological_process	growth	GO:0040007
gi 15608092	biological_process	growth	GO:0040007
gi 15608097	biological_process	growth	GO:0040007
gi 15608112	biological_process	oxidation-reduction process	GO:0055114
gi 15608114	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15608154	biological_process	growth	GO:0040007

gi 15608157	biological_process	5-phosphoribose 1-diphosphate biosynthetic process	GO:0006015
gi 15608157	biological_process	ATP catabolic process	GO:0006200
gi 15608157	biological_process	growth	GO:0040007
gi 15608157	biological_process	protein homooligomerization	GO:0051260
gi 15608158	biological_process	growth	GO:0040007
gi 15608158	biological_process	protein homotrimerization	GO:0070207
gi 15608163	biological_process	growth	GO:0040007
gi 15608165	biological_process	growth	GO:0040007
gi 15608219	biological_process	L-methionine biosynthetic process from L-homoserine via cystathionine	GO:0019279
gi 15608219	biological_process	cysteine biosynthetic process via cystathionine	GO:0019343
gi 15608234	biological_process	growth	GO:0040007
gi 15608238	biological_process	growth	GO:0040007
gi 15608262	biological_process	growth	GO:0040007
gi 15608273	biological_process	growth	GO:0040007
gi 15608283	biological_process	acyl-CoA metabolic process	GO:0006637
gi 15608295	biological_process	vitamin B6 metabolic process	GO:0042816
gi 15608313	biological_process	coenzyme biosynthetic process	GO:0009108
gi 15608313	biological_process	response to nitrosative stress	GO:0051409
gi 15608341	biological_process	growth	GO:0040007
gi 15608341	biological_process	protein homooligomerization	GO:0051260
gi 15608341	biological_process	protein homotrimerization	GO:0070207
gi 15608372	biological_process	growth	GO:0040007
gi 15608379	biological_process	protein homooligomerization	GO:0051260
gi 15608380	biological_process	carbohydrate metabolic process	GO:0005975
gi 15608380	biological_process	tricarboxylic acid cycle	GO:0006099
gi 15608386	biological_process	RNA catabolic process	GO:0006401
gi 15608386	biological_process	negative regulation of growth	GO:0045926
gi 15608386	biological_process	regulation of growth	GO:0040008
gi 15608399	biological_process	base-excision repair	GO:0006284
gi 15608424	biological_process	growth	GO:0040007
gi 15608432	biological_process	growth	GO:0040007
gi 15608435	biological_process	threonine biosynthetic process	GO:0009088
gi 15608435	biological_process	growth	GO:0040007
gi 15608437	biological_process	termination of RNA polymerase I transcription	GO:0006363
gi 15608437	biological_process	growth	GO:0040007
gi 15608437	biological_process	protein homooligomerization	GO:0051260
gi 15608446	biological_process	growth	GO:0040007
gi 15608447	biological_process	growth	GO:0040007
gi 15608448	biological_process	growth	GO:0040007
gi 15608449	biological_process	growth	GO:0040007
gi 15608450	biological_process	growth	GO:0040007
gi 15608451	biological_process	growth	GO:0040007
gi 15608455	biological_process	growth	GO:0040007
gi 15608463	biological_process	response to host immune response	GO:0052572
gi 15608474	biological_process	cysteine biosynthetic process	GO:0019344
gi 15608486	biological_process	siderophore biosynthetic process from catechol	GO:0019540
gi 15608490	biological_process	growth	GO:0040007
gi 15608520	biological_process	growth	GO:0040007
gi 15608523	biological_process	growth	GO:0040007
gi 15608527	biological_process	growth	GO:0040007
gi 15608530	biological_process	coenzyme A biosynthetic process	GO:0015937
gi 15608530	biological_process	growth	GO:0040007
gi 15608531	biological_process	growth	GO:0040007
gi 15608574	biological_process	growth	GO:0040007
gi 15608575	biological_process	growth	GO:0040007
gi 15608576	biological_process	gluconeogenesis	GO:0006094
gi 15608576	biological_process	glycolysis	GO:0006096
gi 15608576	biological_process	growth	GO:0040007
gi 15608586	biological_process	growth	GO:0040007
gi 15608587	biological_process	growth	GO:0040007
gi 15608613	biological_process	response to iron ion	GO:0010039
gi 15608613	biological_process	growth	GO:0040007
gi 15608621	biological_process	short-chain fatty acid metabolic process	GO:0046459
gi 15608621	biological_process	protein homotetramerization	GO:0051289
gi 15608621	biological_process	oxidation-reduction process	GO:0055114
gi 15608621	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15608622	biological_process	fatty acid elongation	GO:0030497
gi 15608622	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15608630	biological_process	propionate metabolic process, methylmalonyl pathway	GO:0019678
gi 15608631	biological_process	propionate metabolic process, methylmalonyl pathway	GO:0019678
gi 15608674	biological_process	isoleucyl-tRNA aminoacylation	GO:0006428
gi 15608682	biological_process	active evasion of host immune response	GO:0042783
gi 15608734	biological_process	NAD biosynthetic process	GO:0009435
gi 15608739	biological_process	growth	GO:0040007
gi 15608741	biological_process	histidine biosynthetic process	GO:0000105

gi 15608741	biological_process	tryptophan biosynthetic process	GO:0000162
gi 15608741	biological_process	growth	GO:0040007
gi 15608749	biological_process	tryptophan biosynthetic process	GO:0000162
gi 15608749	biological_process	growth	GO:0040007
gi 15608749	biological_process	5-phosphoribose 1-diphosphate metabolic process	GO:0046391
gi 15608755	biological_process	growth	GO:0040007
gi 15608767	biological_process	growth	GO:0040007
gi 15608768	biological_process	growth	GO:0040007
gi 15608769	biological_process	coenzyme A biosynthetic process	GO:0015937
gi 15608769	biological_process	growth	GO:0040007
gi 15608774	biological_process	response to antibiotic	GO:0046677
gi 15608776	biological_process	cellular response to DNA damage stimulus	GO:0006974
gi 15608776	biological_process	response to host immune response	GO:0052572
gi 15608776	biological_process	negative regulation of strand invasion	GO:0060543
gi 15608779	biological_process	growth	GO:0040007
gi 15608788	biological_process	growth	GO:0040007
gi 15608792	biological_process	growth	GO:0040007
gi 15608793	biological_process	growth	GO:0040007
gi 15608794	biological_process	arginine biosynthetic process	GO:0006526
gi 15608794	biological_process	growth	GO:0040007
gi 15608794	biological_process	protein homotrimerization	GO:0070207
gi 15608821	biological_process	growth	GO:0040007
gi 15608833	biological_process	NADP biosynthetic process	GO:0006741
gi 15608833	biological_process	polyphosphate metabolic process	GO:0006797
gi 15608833	biological_process	phosphorylation	GO:0016310
gi 15608833	biological_process	growth	GO:0040007
gi 15608833	biological_process	protein homotetramerization	GO:0051289
gi 15608837	biological_process	growth	GO:0040007
gi 15608876	biological_process	growth	GO:0040007
gi 15608876	biological_process	response to host immune response	GO:0052572
gi 15608958	biological_process	pathogenesis	GO:0009405
gi 15608958	biological_process	protein transport by the Sec complex	GO:0043952
gi 15608958	biological_process	growth of symbiont in host cell	GO:0044119
gi 15608958	biological_process	modulation by symbiont of host immune response	GO:0052553
gi 15608964	biological_process	regulation of cellular respiration	GO:0043457
gi 15608964	biological_process	negative regulation of glycolysis	GO:0045820
gi 15608964	biological_process	protein autophosphorylation	GO:0046777
gi 15608969	biological_process	growth	GO:0040007
gi 15608974	biological_process	glyoxylate cycle	GO:0006097
gi 15608974	biological_process	coenzyme A metabolic process	GO:0015936
gi 15609013	biological_process	response to iron ion	GO:0010039
gi 15609045	biological_process	response to oxidative stress	GO:0006979
gi 15609045	biological_process	hydrogen peroxide catabolic process	GO:0042744
gi 15609069	biological_process	response to oxidative stress	GO:0006979
gi 15609069	biological_process	pathogenesis	GO:0009405
gi 15609069	biological_process	cell redox homeostasis	GO:0045454
gi 15609069	biological_process	response to nitrosative stress	GO:0051409
gi 15609069	biological_process	oxidation-reduction process	GO:0055114
gi 15609117	biological_process	cellular response to starvation	GO:0009267
gi 15609133	biological_process	cellular response to nitrosative stress	GO:0071500
gi 15609139	biological_process	steroid metabolic process	GO:0008202
gi 15609142	biological_process	response to hypoxia	GO:0001666
gi 15609142	biological_process	cellular response to nitrosative stress	GO:0071500
gi 15609168	biological_process	response to hypoxia	GO:0001666
gi 15609168	biological_process	protein folding	GO:0006457
gi 15609168	biological_process	cellular response to starvation	GO:0009267
gi 15609168	biological_process	response to heat	GO:0009408
gi 15609168	biological_process	response to iron ion	GO:0010039
gi 15609168	biological_process	growth of symbiont in host organelle	GO:0044121
gi 15609168	biological_process	negative regulation of growth	GO:0045926
gi 15609168	biological_process	protein autophosphorylation	GO:0046777
gi 15609168	biological_process	protein homooligomerization	GO:0051260
gi 15609168	biological_process	response to nitrosative stress	GO:0051409
gi 15609168	biological_process	response to host immune response	GO:0052572
gi 15609168	biological_process	cellular response to hypoxia	GO:0071456
gi 15609168	biological_process	cellular response to nitrosative stress	GO:0071500
gi 15609168	biological_process	response to host	GO:0075136
gi 15609169	biological_process	response to hypoxia	GO:0001666
gi 15609169	biological_process	response to host immune response	GO:0052572
gi 15609211	biological_process	positive regulation by symbiont of host immune response	GO:0052556
gi 15609229	biological_process	growth	GO:0040007
gi 15609229	biological_process	growth	GO:0040007
gi 15609234	biological_process	proteasomal protein catabolic process	GO:0010498
gi 15609234	biological_process	response to nitrosative stress	GO:0051409
gi 15609234	biological_process	protein pupylation	GO:0070490

gi 15609246	biological_process	pathogenesis	GO:0009405
gi 15609246	biological_process	growth	GO:0040007
gi 15609246	biological_process	proteolysis involved in cellular protein catabolic process	GO:0051603
gi 15609249	biological_process	proteasomal protein catabolic process	GO:0010498
gi 15609249	biological_process	modification-dependent protein catabolic process	GO:0019941
gi 15609249	biological_process	protein pupylation	GO:0070490
gi 15609258	biological_process	growth	GO:0040007
gi 15609258	biological_process	protein homooligomerization	GO:0051260
gi 15609258	biological_process	growth	GO:0040007
gi 15609277	biological_process	negative regulation of growth	GO:0045926
gi 15609282	biological_process	regulation of cell shape	GO:0008360
gi 15609282	biological_process	peptidoglycan-based cell wall biogenesis	GO:0009273
gi 15609282	biological_process	growth	GO:0040007
gi 15609282	biological_process	protein stabilization	GO:0050821
gi 15609298	biological_process	growth	GO:0040007
gi 15609315	biological_process	growth	GO:0040007
gi 15609315	biological_process	protein homooligomerization	GO:0051260
gi 15609315	biological_process	growth	GO:0040007
gi 15609315	biological_process	glycolipid biosynthetic process	GO:0009247
gi 15609322	biological_process	long-chain fatty acid metabolic process	GO:0001676
gi 15609324	biological_process	glycolipid biosynthetic process	GO:0009247
gi 15609332	biological_process	growth	GO:0040007
gi 15609332	biological_process	growth	GO:0040007
gi 15609337	biological_process	growth	GO:0040007
gi 15609337	biological_process	growth of symbiont in host organelle	GO:0044121
gi 15609347	biological_process	growth	GO:0040007
gi 15609347	biological_process	L-methionine salvage	GO:0071267
gi 15609347	biological_process	growth	GO:0040007
gi 15609348	biological_process	cAMP biosynthetic process	GO:0006171
gi 15609352	biological_process	pathogenesis	GO:0009405
gi 15609352	biological_process	growth	GO:0040007
gi 15609352	biological_process	cell redox homeostasis	GO:0045454
gi 15609357	biological_process	glutamine biosynthetic process	GO:0006542
gi 15609357	biological_process	pathogenesis	GO:0009405
gi 15609357	biological_process	evasion or tolerance of host immune response	GO:0020012
gi 15609357	biological_process	growth	GO:0040007
gi 15609357	biological_process	protein homooligomerization	GO:0051260
gi 15609359	biological_process	protein homooligomerization	GO:0051260
gi 15609381	biological_process	acyl-CoA metabolic process	GO:0006637
gi 15609381	biological_process	growth	GO:0040007
gi 15609382	biological_process	fatty acid elongation, saturated fatty acid	GO:0019367
gi 15609382	biological_process	fatty acid elongation	GO:0030497
gi 15609382	biological_process	growth	GO:0040007
gi 15609395	biological_process	cellular response to hypoxia	GO:0071456
gi 15609422	biological_process	glycerolipid biosynthetic process	GO:0045017
gi 15609436	biological_process	cellular response to superoxide	GO:0071451
gi 15609494	biological_process	growth	GO:0040007
gi 15609495	biological_process	response to zinc ion	GO:0010043
gi 15609510	biological_process	growth	GO:0040007
gi 15609510	biological_process	regulation of gene expression	GO:0010468
gi 15609521	biological_process	cellular response to iron ion starvation	GO:0010106
gi 15609521	biological_process	siderophore biosynthetic process from catechol	GO:0019540
gi 15609528	biological_process	sulfate assimilation	GO:0000103
gi 15609528	biological_process	growth	GO:0040007
gi 15609549	biological_process	growth	GO:0040007
gi 15609565	biological_process	cell redox homeostasis	GO:0045454
gi 15609565	biological_process	protein homooligomerization	GO:0051260
gi 15609565	biological_process	response to nitrosative stress	GO:0051409
gi 15609565	biological_process	oxidation-reduction process	GO:0055114
gi 15609566	biological_process	cell redox homeostasis	GO:0045454
gi 15609566	biological_process	protein homotrimerization	GO:0070207
gi 15609579	biological_process	growth	GO:0040007
gi 15609581	biological_process	growth	GO:0040007
gi 15609585	biological_process	growth	GO:0040007
gi 15609591	biological_process	tricarboxylic acid cycle	GO:0006099
gi 15609599	biological_process	cellular response to starvation	GO:0009267
gi 15609599	biological_process	response to antibiotic	GO:0046677
gi 15609614	biological_process	growth	GO:0040007
gi 15609635	biological_process	oxaloacetate metabolic process	GO:0006107
gi 15609637	biological_process	growth	GO:0040007
gi 15609639	biological_process	acyl-CoA biosynthetic process	GO:0071616
gi 15609640	biological_process	response to hypoxia	GO:0001666
gi 15609648	biological_process	growth	GO:0040007
gi 15609661	biological_process	growth	GO:0040007
gi 15609664	biological_process	regulation of growth	GO:0040008

gi 15609670	biological_process	growth	GO:0040007
gi 15609671	biological_process	growth	GO:0040007
gi 15609674	biological_process	growth	GO:0040007
gi 15609674	biological_process	protein homooligomerization	GO:0051260
gi 15609675	biological_process	aromatic amino acid family biosynthetic process	GO:0009073
gi 15609675	biological_process	growth	GO:0040007
gi 15609677	biological_process	growth	GO:0040007
gi 15609692	biological_process	growth	GO:0040007
gi 15609743	biological_process	growth	GO:0040007
gi 15609743	biological_process	pyridoxal phosphate biosynthetic process	GO:0042823
gi 15609751	biological_process	growth	GO:0040007
gi 15609760	biological_process	response to hypoxia	GO:0001666
gi 15609760	biological_process	growth	GO:0040007
gi 15609760	biological_process	regulation of growth	GO:0040008
gi 15609760	biological_process	cellular response to nitrosative stress	GO:0071500
gi 15609760	biological_process	dormancy entry of symbiont in host	GO:0085014
gi 15609761	biological_process	cellular response to nitrosative stress	GO:0071500
gi 15609778	biological_process	response to cadmium ion	GO:0046686
gi 15609834	biological_process	growth	GO:0040007
gi 15609834	biological_process	dUTP metabolic process	GO:0046080
gi 15609840	biological_process	pathogenesis	GO:0009405
gi 15609840	biological_process	response to water	GO:0009415
gi 15609840	biological_process	growth	GO:0040007
gi 15609840	biological_process	response to host immune response	GO:0052572
gi 15609848	biological_process	regulation of transcription, DNA-templated	GO:0006355
gi 15609848	biological_process	response to oxidative stress	GO:0006979
gi 15609848	biological_process	siderophore biosynthetic process from catechol	GO:0019540
gi 15609848	biological_process	growth	GO:0040007
gi 15609848	biological_process	negative regulation of transcription, DNA-templated	GO:0045892
gi 15609863	biological_process	lysine biosynthetic process via diaminopimelate	GO:0009089
gi 15609863	biological_process	growth	GO:0040007
gi 15609890	biological_process	lysine biosynthetic process via diaminopimelate	GO:0009089
gi 15609890	biological_process	growth	GO:0040007
gi 15609890	biological_process	protein homotetramerization	GO:0051289
gi 15609910	biological_process	lysine biosynthetic process via diaminopimelate	GO:0009089
gi 15609910	biological_process	diaminopimelate biosynthetic process	GO:0019877
gi 15609910	biological_process	protein homooligomerization	GO:0051260
gi 15609910	biological_process	protein homotetramerization	GO:0051289
gi 15609917	biological_process	response to hypoxia	GO:0001666
gi 15609917	biological_process	alanine catabolic process	GO:0006524
gi 15609917	biological_process	protein homooligomerization	GO:0051260
gi 15609923	biological_process	growth	GO:0040007
gi 15609976	biological_process	growth	GO:0040007
gi 15609982	biological_process	growth	GO:0040007
gi 15610019	biological_process	translational termination	GO:0006415
gi 15610019	biological_process	growth	GO:0040007
gi 15610026	biological_process	growth	GO:0040007
gi 15610027	biological_process	growth	GO:0040007
gi 15610032	biological_process	cellular response to iron ion starvation	GO:0010106
gi 15610032	biological_process	siderophore transport	GO:0015891
gi 15610041	biological_process	growth	GO:0040007
gi 15610056	biological_process	growth of symbiont in host cell	GO:0044119
gi 15610056	biological_process	protein homotrimerization	GO:0070207
gi 15610064	biological_process	growth	GO:0040007
gi 15610065	biological_process	lipid biosynthetic process	GO:0008610
gi 15610065	biological_process	negative regulation by symbiont of host immune response	GO:0052562
gi 15610065	biological_process	DIM/DIP cell wall layer assembly	GO:0071770
gi 15610072	biological_process	fatty acid biosynthetic process	GO:0006633
gi 15610072	biological_process	DIM/DIP cell wall layer assembly	GO:0071770
gi 15610077	biological_process	L-methylmalonyl-CoA metabolic process	GO:0046491
gi 15610077	biological_process	DIM/DIP cell wall layer assembly	GO:0071770
gi 15610077	biological_process	methyl-branched fatty acid metabolic process	GO:0097089
gi 15610090	biological_process	glycolipid biosynthetic process	GO:0009247
gi 15610090	biological_process	DIM/DIP cell wall layer assembly	GO:0071770
gi 15610102	biological_process	coenzyme A biosynthetic process	GO:0015937
gi 15610102	biological_process	protein hexamerization	GO:0034214
gi 15610104	biological_process	growth	GO:0040007
gi 15610106	biological_process	growth	GO:0040007
gi 15610121	biological_process	response to hypoxia	GO:0001666
gi 15610121	biological_process	response to oxidative stress	GO:0006979
gi 15610121	biological_process	pathogenesis	GO:0009405
gi 15610121	biological_process	stringent response	GO:0015968
gi 15610121	biological_process	phosphorylation	GO:0016310
gi 15610121	biological_process	growth	GO:0040007
gi 15610121	biological_process	protein autophosphorylation	GO:0046777

gi 15610123	biological_process	cellular response to iron ion starvation	GO:0010106
gi 15610123	biological_process	growth	GO:0040007
gi 15610123	biological_process	DNA protection	GO:0042262
gi 15610123	biological_process	nucleoid organization	GO:0090143
gi 15610132	biological_process	growth	GO:0040007
gi 15610139	biological_process	growth	GO:0040007
gi 15610146	biological_process	growth	GO:0040007
gi 15610166	biological_process	growth	GO:0040007
gi 15610188	biological_process	DNA replication	GO:0006260
gi 15610188	biological_process	deoxyribonucleotide biosynthetic process	GO:0009263
gi 15610188	biological_process	growth	GO:0040007
gi 15610188	biological_process	oxidation-reduction process	GO:0055114
gi 15610223	biological_process	response to acid	GO:0001101
gi 15610223	biological_process	growth of symbiont in host cell	GO:0044119
gi 15610224	biological_process	response to acid	GO:0001101
gi 15610224	biological_process	growth of symbiont in host cell	GO:0044119
gi 15610224	biological_process	negative regulation by symbiont of host immune response	GO:0052562
gi 15610225	biological_process	response to acid	GO:0001101
gi 15610225	biological_process	triglyceride biosynthetic process	GO:0019432
gi 15610225	biological_process	growth of symbiont in host cell	GO:0044119
gi 15610225	biological_process	glycerolipid biosynthetic process	GO:0045017
gi 15610225	biological_process	response to nitric oxide	GO:0071731
gi 15610226	biological_process	response to acid	GO:0001101
gi 15610226	biological_process	growth of symbiont in host cell	GO:0044119
gi 15610242	biological_process	growth	GO:0040007
gi 15610269	biological_process	response to hypoxia	GO:0001666
gi 15610269	biological_process	pathogenesis	GO:0009405
gi 15610269	biological_process	regulation of fatty acid metabolic process	GO:0019217
gi 15610269	biological_process	dormancy process	GO:0022611
gi 15610269	biological_process	positive regulation of transcription, DNA-templated	GO:0045893
gi 15610269	biological_process	cellular response to nitrosative stress	GO:0071500
gi 15610269	biological_process	regulation of response to stress	GO:0080134
gi 15610275	biological_process	growth	GO:0040007
gi 15610276	biological_process	growth	GO:0040007
gi 15610359	biological_process	regulation of transcription, DNA-templated	GO:0006355
gi 15610359	biological_process	response to stress	GO:0006950
gi 15610359	biological_process	response to oxidative stress	GO:0006979
gi 15610359	biological_process	response to heat	GO:0009408
gi 15610359	biological_process	cellular response to heat	GO:0034605
gi 15610359	biological_process	response to nitrosative stress	GO:0051409
gi 15610359	biological_process	response to host immune response	GO:0052572
gi 15610360	biological_process	response to iron ion	GO:0010039
gi 15610363	biological_process	chorismate biosynthetic process	GO:0009423
gi 15610382	biological_process	protein phosphorylation	GO:0006468
gi 15610382	biological_process	growth of symbiont in host	GO:0044117
gi 15610382	biological_process	positive regulation of transcription, DNA-templated	GO:0045893
gi 15610384	biological_process	methionine catabolic process	GO:0009087
gi 15610384	biological_process	growth	GO:0040007
gi 15610384	biological_process	adenosine metabolic process	GO:0046085
gi 15610384	biological_process	protein homotetramerization	GO:0051289
gi 15610391	biological_process	growth	GO:0040007
gi 15610411	biological_process	growth	GO:0040007
gi 15610416	biological_process	carbon fixation	GO:0015977
gi 15610417	biological_process	carbon fixation	GO:0015977
gi 15610417	biological_process	growth	GO:0040007
gi 15610421	biological_process	carbon fixation	GO:0015977
gi 15610421	biological_process	growth	GO:0040007
gi 15610472	biological_process	growth	GO:0040007
gi 15610475	biological_process	glyoxylate cycle	GO:0006097
gi 15610475	biological_process	tricarboxylic acid cycle	GO:0006099
gi 15610475	biological_process	isocitrate metabolic process	GO:0006102
gi 15610492	biological_process	growth	GO:0040007
gi 15610525	biological_process	fatty acid biosynthetic process	GO:0006633
gi 15610528	biological_process	S-adenosylmethionine metabolic process	GO:0046500
gi 15610528	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15610532	biological_process	growth	GO:0040007
gi 15610553	biological_process	response to heat	GO:0009408
gi 15610553	biological_process	growth	GO:0040007
gi 15610553	biological_process	DNA protection	GO:0042262
gi 15610553	biological_process	protein homooligomerization	GO:0051260
gi 15610553	biological_process	nucleoid organization	GO:0090143
gi 15610554	biological_process	regulation of transcription, DNA-templated	GO:0006355
gi 15610554	biological_process	response to heat	GO:0009408
gi 15610554	biological_process	cellular response to heat	GO:0034605
gi 15610554	biological_process	growth	GO:0040007

gi 15610554	biological_process	response to antibiotic	GO:0046677
gi 15610554	biological_process	protein homooligomerization	GO:0051260
gi 15610572	biological_process	growth	GO:0040007
gi 15610579	biological_process	growth	GO:0040007
gi 15610593	biological_process	growth	GO:0040007
gi 15610594	biological_process	growth	GO:0040007
gi 15610595	biological_process	growth	GO:0040007
gi 15610652	biological_process	response to host immune response	GO:0052572
gi 15610678	biological_process	growth of symbiont in host	GO:0044117
gi 15610692	biological_process	response to host immune response	GO:0052572
gi 15610704	biological_process	cholesterol catabolic process	GO:0006707
gi 15610704	biological_process	pathogenesis	GO:0009405
gi 15610704	biological_process	response to cholesterol	GO:0070723
gi 15610705	biological_process	growth of symbiont in host	GO:0044117
gi 15610706	biological_process	cholesterol catabolic process	GO:0006707
gi 15610706	biological_process	growth of symbiont in host	GO:0044117
gi 15610706	biological_process	protein homooligomerization	GO:0051260
gi 15610717	biological_process	growth	GO:0040007
gi 15610717	biological_process	terpenoid biosynthetic process, mevalonate-independent	GO:0051483
gi 15610719	biological_process	pathogenesis	GO:0009405
gi 15610719	biological_process	stringent response	GO:0015968
gi 15610719	biological_process	growth	GO:0040007
gi 15610728	biological_process	heme catabolic process	GO:0042167
gi 15610733	biological_process	regulation of transcription, DNA-templated	GO:0006355
gi 15610733	biological_process	response to iron ion	GO:0010039
gi 15610733	biological_process	growth	GO:0040007
gi 15610733	biological_process	DNA protection	GO:0042262
gi 15610733	biological_process	response to hydrogen peroxide	GO:0042542
gi 15610733	biological_process	protein homooligomerization	GO:0051260
gi 15610734	biological_process	growth	GO:0040007
gi 15610745	biological_process	growth	GO:0040007
gi 15610764	biological_process	phosphate-containing compound metabolic process	GO:0006796
gi 15610782	biological_process	growth	GO:0040007
gi 15610782	biological_process	negative regulation of ribonuclease activity	GO:0060701
gi 15610784	biological_process	growth	GO:0040007
gi 15610805	biological_process	growth	GO:0040007
gi 15610812	biological_process	regulation of transcription, DNA-templated	GO:0006355
gi 15610812	biological_process	growth	GO:0040007
gi 15610812	biological_process	negative regulation of transcription, DNA-templated	GO:0045892
gi 15610812	biological_process	positive regulation of transcription, DNA-templated	GO:0045893
gi 15610814	biological_process	regulation of fatty acid metabolic process	GO:0019217
gi 15610814	biological_process	regulation of chaperone-mediated protein complex assembly	GO:0090034
gi 15610870	biological_process	response to hypoxia	GO:0001666
gi 15610870	biological_process	triglyceride biosynthetic process	GO:0019432
gi 15610870	biological_process	glycerolipid biosynthetic process	GO:0045017
gi 15610870	biological_process	response to nitric oxide	GO:0071731
gi 15610897	biological_process	active evasion of host immune response	GO:0042783
gi 15610926	biological_process	arabinan biosynthetic process	GO:0035884
gi 15610926	biological_process	growth	GO:0040007
gi 15610926	biological_process	cell wall polysaccharide biosynthetic process	GO:0070592
gi 15610927	biological_process	arabinan biosynthetic process	GO:0035884
gi 15610927	biological_process	growth	GO:0040007
gi 15610927	biological_process	cell wall polysaccharide biosynthetic process	GO:0070592
gi 15610936	biological_process	fatty acid elongation, saturated fatty acid	GO:0019367
gi 15610936	biological_process	growth	GO:0040007
gi 15610936	biological_process	protein homooligomerization	GO:0051260
gi 15610936	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 15610936	biological_process	mycolate cell wall layer assembly	GO:0071769
gi 15610937	biological_process	growth	GO:0040007
gi 15610937	biological_process	mycolate cell wall layer assembly	GO:0071769
gi 15610945	biological_process	Actinobacterium-type cell wall biogenesis	GO:0071766
gi 15610961	biological_process	fatty acid biosynthetic process	GO:0006633
gi 15610961	biological_process	cellular response to iron ion starvation	GO:0010106
gi 15610961	biological_process	response to host immune response	GO:0052572
gi 15610974	biological_process	L-phenylalanine biosynthetic process from chorismate via phenylpyruvate	GO:0033585
gi 15610974	biological_process	protein homotetramerization	GO:0051289
gi 15610982	biological_process	response to oxidative stress	GO:0006979
gi 15610982	biological_process	pathogenesis	GO:0009405
gi 15610982	biological_process	protein homotetramerization	GO:0051289
gi 15610985	biological_process	regulation of transcription, DNA-templated	GO:0006355
gi 15610985	biological_process	regulation of protein secretion	GO:0050708
gi 15610985	biological_process	response to host immune response	GO:0052572
gi 15610988	biological_process	regulation of transcription, DNA-templated	GO:0006355
gi 15610994	biological_process	growth	GO:0040007
gi 15610995	biological_process	growth	GO:0040007

gi 15611000	biological_process	growth of symbiont in host	GO:0044117
gi 15611016	biological_process	negative regulation by symbiont of host innate immune response	GO:0052170
gi 15611017	biological_process	pathogenesis	GO:0009405
gi 15611017	biological_process	protein secretion by the type VII secretion system	GO:0044315
gi 15611050	biological_process	cell redox homeostasis	GO:0045454
gi 161352467	biological_process	tricarboxylic acid cycle	GO:0006099
gi 161352467	biological_process	2-oxoglutarate metabolic process	GO:0006103
gi 161352467	biological_process	growth	GO:0040007
gi 161352467	biological_process	oxidation-reduction process	GO:0055114
gi 345462027	biological_process	leucine biosynthetic process	GO:0009098
gi 345462027	biological_process	growth	GO:0040007
gi 448824735	biological_process	growth	GO:0040007
gi 448824753	biological_process	glycine metabolic process	GO:0006544
gi 448824753	biological_process	L-serine metabolic process	GO:0006563
gi 448824753	biological_process	active evasion of host immune response	GO:0042783
gi 448824754	biological_process	gluconeogenesis	GO:0006094
gi 448824757	biological_process	growth	GO:0040007
gi 448824761	biological_process	growth	GO:0040007
gi 448824781	biological_process	oxidation-reduction process	GO:0055114
gi 448824785	biological_process	trehalose catabolic process	GO:0005993
gi 448824796	biological_process	growth	GO:0040007
gi 448824797	biological_process	growth	GO:0040007
gi 448824799	biological_process	growth	GO:0040007
gi 448824799	biological_process	cellular response to nitrosative stress	GO:0071500
gi 57116704	biological_process	tricarboxylic acid cycle	GO:0006099
gi 57116724	biological_process	regulation of gene expression	GO:0010468
gi 57116724	biological_process	growth	GO:0040007
gi 57116734	biological_process	response to acid	GO:0001101
gi 57116734	biological_process	glyoxylate cycle	GO:0006097
gi 57116734	biological_process	isocitrate metabolic process	GO:0006102
gi 57116734	biological_process	pathogenesis	GO:0009405
gi 57116734	biological_process	response to acetate	GO:0010034
gi 57116734	biological_process	response to host immune response	GO:0052572
gi 57116734	biological_process	response to fatty acid	GO:0070542
gi 57116734	biological_process	cellular response to hypoxia	GO:0071456
gi 57116734	biological_process	maintenance of symbiont tolerance to host environment	GO:0075141
gi 57116735	biological_process	mycolic acid biosynthetic process	GO:0071768
gi 57116747	biological_process	growth	GO:0040007
gi 57116767	biological_process	growth	GO:0040007
gi 57116768	biological_process	growth	GO:0040007
gi 57116786	biological_process	growth	GO:0040007
gi 57116786	biological_process	response to host immune response	GO:0052572
gi 57116800	biological_process	phosphate ion transport	GO:0006817
gi 57116903	biological_process	tricarboxylic acid cycle	GO:0006099
gi 57116972	biological_process	cysteine biosynthetic process from serine	GO:0006535
gi 57116987	biological_process	aminoglycoside antibiotic catabolic process	GO:0030649
gi 57116987	biological_process	growth of symbiont in host cell	GO:0044119
gi 57116987	biological_process	growth of symbiont in host organelle	GO:0044121
gi 57116987	biological_process	positive regulation by symbiont of host inflammatory response	GO:0052035
gi 57116987	biological_process	modulation by symbiont of host programmed cell death	GO:0052040
gi 57116987	biological_process	modulation by symbiont of defense-related host reactive oxygen species production	GO:0052164
gi 57116987	biological_process	modulation by symbiont of host innate immune response	GO:0052167
gi 57116990	biological_process	NAD biosynthetic process	GO:0009435
gi 57116990	biological_process	growth	GO:0040007
gi 57116993	biological_process	pentose-phosphate shunt, non-oxidative branch	GO:0009052
gi 57117031	biological_process	methionine metabolic process	GO:0006555
gi 57117031	biological_process	protein initiator methionine removal involved in protein maturation	GO:0035551
gi 57117041	biological_process	growth	GO:0040007
gi 57117042	biological_process	L-serine biosynthetic process	GO:0006564
gi 57117042	biological_process	growth	GO:0040007
gi 57117042	biological_process	protein homotetramerization	GO:0051289
gi 57117044	biological_process	branched-chain amino acid biosynthetic process	GO:0009082
gi 57117044	biological_process	isoleucine biosynthetic process	GO:0009097
gi 57117044	biological_process	valine biosynthetic process	GO:0009099
gi 57117044	biological_process	growth	GO:0040007
gi 57117051	biological_process	DNA replication	GO:0006260
gi 57117051	biological_process	deoxyribonucleotide biosynthetic process	GO:0009263
gi 57117051	biological_process	growth	GO:0040007
gi 57117081	biological_process	mannose biosynthetic process	GO:0019307
gi 57117081	biological_process	growth	GO:0040007
gi 57117081	biological_process	GDP metabolic process	GO:0046710
gi 57117128	biological_process	growth	GO:0040007
gi 57117131	biological_process	growth	GO:0040007
gi 57117137	biological_process	growth	GO:0040007
gi 57117147	biological_process	growth	GO:0040007

gi 57117168	biological_process	growth	GO:0040007
gi 15607144	cellular_component	extracellular region	GO:0005576
gi 15607144	cellular_component	cell wall	GO:0005618
gi 15607148	cellular_component	cell wall	GO:0005618
gi 15607148	cellular_component	plasma membrane	GO:0005886
gi 15607151	cellular_component	extracellular region	GO:0005576
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gi 15607151	cellular_component	cytosol	GO:0005829
gi 15607151	cellular_component	plasma membrane	GO:0005886
gi 15607186	cellular_component	plasma membrane	GO:0005886
gi 15607195	cellular_component	cell wall	GO:0005618
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gi 15607196	cellular_component	plasma membrane	GO:0005886
gi 15607198	cellular_component	cell wall	GO:0005618
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gi 15607208	cellular_component	extracellular region	GO:0005576
gi 15607208	cellular_component	cell wall	GO:0005618
gi 15607208	cellular_component	cytosol	GO:0005829
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gi 15607223	cellular_component	plasma membrane	GO:0005886
gi 15607230	cellular_component	cell wall	GO:0005618
gi 15607230	cellular_component	plasma membrane	GO:0005886
gi 15607269	cellular_component	cytosol	GO:0005829
gi 15607269	cellular_component	plasma membrane	GO:0005886
gi 15607273	cellular_component	cytosol	GO:0005829
gi 15607290	cellular_component	cell wall	GO:0005618
gi 15607290	cellular_component	plasma membrane	GO:0005886
gi 15607291	cellular_component	plasma membrane	GO:0005886
gi 15607296	cellular_component	plasma membrane	GO:0005886
gi 15607297	cellular_component	plasma membrane	GO:0005886
gi 15607321	cellular_component	cell wall	GO:0005618
gi 15607321	cellular_component	plasma membrane	GO:0005886
gi 15607321	cellular_component	integral component of plasma membrane	GO:0005887
gi 15607330	cellular_component	plasma membrane	GO:0005886
gi 15607352	cellular_component	extracellular region	GO:0005576
gi 15607352	cellular_component	cell wall	GO:0005618
gi 15607352	cellular_component	cytosol	GO:0005829
gi 15607352	cellular_component	plasma membrane	GO:0005886
gi 15607357	cellular_component	plasma membrane	GO:0005886
gi 15607362	cellular_component	plasma membrane	GO:0005886
gi 15607364	cellular_component	plasma membrane	GO:0005886
gi 15607372	cellular_component	plasma membrane	GO:0005886
gi 15607382	cellular_component	plasma membrane	GO:0005886
gi 15607383	cellular_component	extracellular region	GO:0005576
gi 15607383	cellular_component	cell wall	GO:0005618
gi 15607383	cellular_component	cytosol	GO:0005829
gi 15607383	cellular_component	plasma membrane	GO:0005886
gi 15607384	cellular_component	cell wall	GO:0005618
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gi 15607385	cellular_component	extracellular region	GO:0005576
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gi 15607407	cellular_component	plasma membrane	GO:0005886
gi 15607411	cellular_component	cell wall	GO:0005618
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gi 15607412	cellular_component	cell wall	GO:0005618
gi 15607412	cellular_component	plasma membrane	GO:0005886
gi 15607456	cellular_component	extracellular region	GO:0005576
gi 15607473	cellular_component	plasma membrane	GO:0005886
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gi 15607488	cellular_component	cell wall	GO:0005618
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gi 57116990	cellular_component	cell wall	GO:0005618
gi 57116990	cellular_component	plasma membrane	GO:0005886
gi 57116993	cellular_component	extracellular region	GO:0005576
gi 57116994	cellular_component	plasma membrane	GO:0005886
gi 57117015	cellular_component	cell wall	GO:0005618
gi 57117015	cellular_component	plasma membrane	GO:0005886
gi 57117016	cellular_component	plasma membrane	GO:0005886
gi 57117019	cellular_component	cell wall	GO:0005618
gi 57117019	cellular_component	plasma membrane	GO:0005886
gi 57117036	cellular_component	cell wall	GO:0005618
gi 57117036	cellular_component	cytosol	GO:0005829
gi 57117036	cellular_component	plasma membrane	GO:0005886
gi 57117041	cellular_component	plasma membrane	GO:0005886
gi 57117042	cellular_component	cell wall	GO:0005618
gi 57117042	cellular_component	plasma membrane	GO:0005886
gi 57117044	cellular_component	cell wall	GO:0005618
gi 57117051	cellular_component	ribonucleoside-diphosphate reductase complex	GO:0005971
gi 57117081	cellular_component	plasma membrane	GO:0005886
gi 57117125	cellular_component	plasma membrane	GO:0005886
gi 57117128	cellular_component	cytosol	GO:0005829
gi 57117131	cellular_component	cell wall	GO:0005618
gi 57117131	cellular_component	cytosol	GO:0005829
gi 57117131	cellular_component	plasma membrane	GO:0005886
gi 57117137	cellular_component	plasma membrane	GO:0005886
gi 57117147	cellular_component	extracellular region	GO:0005576
gi 57117168	cellular_component	cell wall	GO:0005618
gi 57117168	cellular_component	plasma membrane	GO:0005886
gi 15607148	molecular_function	magnesium ion binding	GO:0000287
gi 15607148	molecular_function	DNA topoisomerase type II (ATP-hydrolyzing) activity	GO:0003918
gi 15607148	molecular_function	protein binding	GO:0005515
gi 15607148	molecular_function	ATP binding	GO:0005524
gi 15607148	molecular_function	protein heterodimerization activity	GO:0046982
gi 15607151	molecular_function	peptidyl-prolyl cis-trans isomerase activity	GO:0003755
gi 15607196	molecular_function	single-stranded DNA binding	GO:0003697
gi 15607208	molecular_function	magnesium ion binding	GO:0000287
gi 15607208	molecular_function	isocitrate dehydrogenase activity	GO:0004448
gi 15607208	molecular_function	protein homodimerization activity	GO:0042803
gi 15607279	molecular_function	peptide-methionine (S)-S-oxide reductase activity	GO:0008113
gi 15607279	molecular_function	L-methionine:thioredoxin-disulfide S-oxidoreductase activity	GO:0033744
gi 15607330	molecular_function	dihydroxy-acid dehydratase activity	GO:0004160
gi 15607330	molecular_function	protein homodimerization activity	GO:0042803
gi 15607364	molecular_function	ATP binding	GO:0005524
gi 15607364	molecular_function	AMP binding	GO:0016208
gi 15607364	molecular_function	ADP binding	GO:0043531

gi 15607364	molecular_function	NAD binding	GO:0051287
gi 15607364	molecular_function	NADH binding	GO:0070404
gi 15607364	molecular_function	FAD binding	GO:0071949
gi 15607382	molecular_function	3-hydroxyacyl-CoA dehydratase activity	GO:0018812
gi 15607382	molecular_function	3-hydroxyacyl-[acyl-carrier-protein] dehydratase activity	GO:0019171
gi 15607383	molecular_function	3-oxoacyl-[acyl-carrier-protein] reductase (NADPH) activity	GO:0004316
gi 15607475	molecular_function	glucose-1-phosphate thymidyltransferase activity	GO:0008879
gi 15607504	molecular_function	fructose-bisphosphate aldolase activity	GO:0004332
gi 15607504	molecular_function	zinc ion binding	GO:0008270
gi 15607548	molecular_function	oxidoreductase activity, acting on CH-OH group of donors	GO:0016614
gi 15607548	molecular_function	coenzyme F420 binding	GO:0070967
gi 15607551	molecular_function	protein serine/threonine kinase activity	GO:0004674
gi 15607551	molecular_function	protein binding	GO:0005515
gi 15607573	molecular_function	superoxide dismutase activity	GO:0004784
gi 15607573	molecular_function	metal ion binding	GO:0046872
gi 15607581	molecular_function	protein binding	GO:0005515
gi 15607581	molecular_function	protein homodimerization activity	GO:0042803
gi 15607586	molecular_function	protein binding	GO:0005515
gi 15607603	molecular_function	dihydrolipoyl dehydrogenase activity	GO:0004148
gi 15607603	molecular_function	protein binding	GO:0005515
gi 15607603	molecular_function	disulfide oxidoreductase activity	GO:0015036
gi 15607603	molecular_function	oxidoreductase activity, acting on NAD(P)H, quinone or similar compound as acceptor	GO:0016655
gi 15607603	molecular_function	protein homodimerization activity	GO:0042803
gi 15607603	molecular_function	flavin adenine dinucleotide binding	GO:0050660
gi 15607603	molecular_function	NADH binding	GO:0070404
gi 15607603	molecular_function	oxoglutarate dehydrogenase (succinyl-transferring) activity	GO:0004591
gi 15607609	molecular_function	3-hydroxybutyryl-CoA dehydrogenase activity	GO:0008691
gi 15607616	molecular_function	protein binding	GO:0005515
gi 15607616	molecular_function	heparin binding	GO:0008201
gi 15607616	molecular_function	protein homodimerization activity	GO:0042803
gi 15607641	molecular_function	magnesium ion binding	GO:0000287
gi 15607641	molecular_function	pyrroline-5-carboxylate reductase activity	GO:0004735
gi 15607641	molecular_function	manganese ion binding	GO:0030145
gi 15607644	molecular_function	cyclopropane-fatty-acyl-phospholipid synthase activity	GO:0008825
gi 15607688	molecular_function	1,4-dihydroxy-2-naphthoyl-CoA synthase activity	GO:0008935
gi 15607739	molecular_function	toxin-antitoxin pair type II binding	GO:0097351
gi 15607776	molecular_function	protein binding	GO:0005515
gi 15607776	molecular_function	3-hydroxyacyl-[acyl-carrier-protein] dehydratase activity	GO:0019171
gi 15607782	molecular_function	protein binding	GO:0005515
gi 15607782	molecular_function	S-adenosylmethionine-dependent methyltransferase activity	GO:0008757
gi 15607784	molecular_function	protein binding	GO:0005515
gi 15607825	molecular_function	protein binding	GO:0005515
gi 15607840	molecular_function	protein binding	GO:0005515
gi 15607873	molecular_function	adenylate kinase activity	GO:0004017
gi 15607873	molecular_function	nucleoside diphosphate kinase activity	GO:0004550
gi 15607873	molecular_function	ATP binding	GO:0005524
gi 15607900	molecular_function	sterol binding	GO:0032934
gi 15607900	molecular_function	protein homodimerization activity	GO:0042803
gi 15607913	molecular_function	gamma-glutamyltransferase activity	GO:0003840
gi 15607998	molecular_function	protein homodimerization activity	GO:0042803
gi 15608043	molecular_function	magnesium ion binding	GO:0000287
gi 15608043	molecular_function	calcium ion binding	GO:0005509
gi 15608050	molecular_function	ribonuclease activity	GO:0004540
gi 15608071	molecular_function	protein kinase activity	GO:0004672
gi 15608071	molecular_function	protein serine/threonine kinase activity	GO:0004674
gi 15608071	molecular_function	manganese ion binding	GO:0030145
gi 15608071	molecular_function	protein homodimerization activity	GO:0042803
gi 15608086	molecular_function	glucose-6-phosphate isomerase activity	GO:0004347
gi 15608112	molecular_function	acyl-CoA dehydrogenase activity	GO:0003995
gi 15608154	molecular_function	aminoacyl-tRNA hydrolase activity	GO:0004045
gi 15608157	molecular_function	magnesium ion binding	GO:0000287
gi 15608157	molecular_function	ribose phosphate diphosphokinase activity	GO:0004749
gi 15608157	molecular_function	manganese ion binding	GO:0030145
gi 15608158	molecular_function	magnesium ion binding	GO:0000287
gi 15608158	molecular_function	UDP-N-acetylglucosamine diphosphorylase activity	GO:0003977
gi 15608158	molecular_function	glucosamine-1-phosphate N-acetyltransferase activity	GO:0019134
gi 15608158	molecular_function	uridylyltransferase activity	GO:0070569
gi 15608219	molecular_function	cystathionine gamma-synthase activity	GO:0003962
gi 15608219	molecular_function	cystathionine gamma-lyase activity	GO:0004123
gi 15608234	molecular_function	protein homodimerization activity	GO:0042803
gi 15608234	molecular_function	metal ion binding	GO:0046872
gi 15608283	molecular_function	alpha-methylacyl-CoA racemase activity	GO:0008111
gi 15608283	molecular_function	protein homodimerization activity	GO:0042803
gi 15608295	molecular_function	FMN binding	GO:0010181
gi 15608295	molecular_function	pyridoxal phosphate binding	GO:0030170

gi 15608295	molecular_function	protein homodimerization activity	GO:0042803
gi 15608341	molecular_function	magnesium ion binding	GO:0000287
gi 15608341	molecular_function	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase activity	GO:0008666
gi 15608341	molecular_function	sodium ion binding	GO:0031402
gi 15608341	molecular_function	coenzyme binding	GO:0050662
gi 15608379	molecular_function	magnesium ion binding	GO:0000287
gi 15608379	molecular_function	cobalt ion binding	GO:0050897
gi 15608380	molecular_function	L-malate dehydrogenase activity	GO:0030060
gi 15608386	molecular_function	endonuclease activity	GO:0004519
gi 15608399	molecular_function	uracil DNA N-glycosylase activity	GO:0004844
gi 15608399	molecular_function	DNA-deoxyinosine glycosylase activity	GO:0033958
gi 15608399	molecular_function	iron-sulfur cluster binding	GO:0051536
gi 15608424	molecular_function	carbonate dehydratase activity	GO:0004089
gi 15608424	molecular_function	zinc ion binding	GO:0008270
gi 15608424	molecular_function	protein homodimerization activity	GO:0042803
gi 15608435	molecular_function	threonine synthase activity	GO:0004795
gi 15608435	molecular_function	pyridoxal phosphate binding	GO:0030170
gi 15608435	molecular_function	protein homodimerization activity	GO:0042803
gi 15608474	molecular_function	metalloexopeptidase activity	GO:0008235
gi 15608474	molecular_function	zinc ion binding	GO:0008270
gi 15608486	molecular_function	enoyl-[acyl-carrier-protein] reductase activity	GO:0016631
gi 15608530	molecular_function	phosphopantothenoylcysteine decarboxylase activity	GO:0004633
gi 15608576	molecular_function	triose-phosphate isomerase activity	GO:0004807
gi 15608576	molecular_function	protein homodimerization activity	GO:0042803
gi 15608613	molecular_function	aconitate hydratase activity	GO:0003994
gi 15608613	molecular_function	iron-responsive element binding	GO:0030350
gi 15608621	molecular_function	3-oxoacyl-[acyl-carrier-protein] reductase (NADPH) activity	GO:0004316
gi 15608621	molecular_function	acetoacetyl-CoA reductase activity	GO:0018454
gi 15608621	molecular_function	protein homodimerization activity	GO:0042803
gi 15608622	molecular_function	enoyl-[acyl-carrier-protein] reductase (NADH) activity	GO:0004318
gi 15608622	molecular_function	fatty acid binding	GO:0005504
gi 15608622	molecular_function	NAD+ binding	GO:0070403
gi 15608674	molecular_function	isoleucine-tRNA ligase activity	GO:0004822
gi 15608734	molecular_function	nicotinate-nucleotide diphosphorylase (carboxylating) activity	GO:0004514
gi 15608749	molecular_function	magnesium ion binding	GO:0000287
gi 15608749	molecular_function	indole-3-glycerol-phosphate synthase activity	GO:0004425
gi 15608769	molecular_function	CTP binding	GO:0002135
gi 15608769	molecular_function	dephospho-CoA kinase activity	GO:0004140
gi 15608769	molecular_function	dATP binding	GO:0032564
gi 15608776	molecular_function	protein binding	GO:0005515
gi 15608794	molecular_function	ornithine carbamoyltransferase activity	GO:0004585
gi 15608833	molecular_function	NAD+ kinase activity	GO:0003951
gi 15608958	molecular_function	ATPase activity	GO:0016887
gi 15608964	molecular_function	protein binding	GO:0005515
gi 15608974	molecular_function	magnesium ion binding	GO:0000287
gi 15608974	molecular_function	malate synthase activity	GO:0004474
gi 15608974	molecular_function	protein binding	GO:0005515
gi 15608974	molecular_function	manganese ion binding	GO:0030145
gi 15608974	molecular_function	protein homodimerization activity	GO:0042803
gi 15608980	molecular_function	IMP dehydrogenase activity	GO:0003938
gi 15609045	molecular_function	catalase activity	GO:0004096
gi 15609045	molecular_function	peroxidase activity	GO:0004601
gi 15609045	molecular_function	oxidoreductase activity, acting on a heme group of donors, nitrogenous group as acceptor	GO:0016677
gi 15609045	molecular_function	heme binding	GO:0020037
gi 15609045	molecular_function	protein homodimerization activity	GO:0042803
gi 15609045	molecular_function	NADPH binding	GO:0070402
gi 15609045	molecular_function	NADH binding	GO:0070404
gi 15609069	molecular_function	peroxidase activity	GO:0004601
gi 15609069	molecular_function	protein disulfide isomerase activity	GO:0006467
gi 15609069	molecular_function	disulfide oxidoreductase activity	GO:0015036
gi 15609069	molecular_function	protein homodimerization activity	GO:0042803
gi 15609069	molecular_function	peroxiredoxin activity	GO:0051920
gi 15609139	molecular_function	androstan-3-alpha,17-beta-diol dehydrogenase activity	GO:0047044
gi 15609168	molecular_function	protein binding involved in protein folding	GO:0044183
gi 15609204	molecular_function	beta-lactamase activity	GO:0008800
gi 15609220	molecular_function	nickel cation binding	GO:0016151
gi 15609234	molecular_function	acid-amino acid ligase activity	GO:0016881
gi 15609246	molecular_function	protein binding	GO:0005515
gi 15609249	molecular_function	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides	GO:0016811
gi 15609258	molecular_function	ATP binding	GO:0005524
gi 15609258	molecular_function	AMP binding	GO:0016208
gi 15609258	molecular_function	protein homodimerization activity	GO:0042803
gi 15609258	molecular_function	magnesium ion binding	GO:0000287
gi 15609277	molecular_function	toxin-antitoxin pair type II binding	GO:0097351
gi 15609296	molecular_function	protein binding	GO:0005515

gi 15609315	molecular_function	manganese ion binding	GO:0030145
gi 15609315	molecular_function	alpha-1,2-mannosyltransferase activity	GO:0000026
gi 15609322	molecular_function	long-chain fatty acid-CoA ligase activity	GO:0004467
gi 15609324	molecular_function	mannosyltransferase activity	GO:0000030
gi 15609339	molecular_function	GTP binding	GO:0005525
gi 15609339	molecular_function	dGTP binding	GO:0032567
gi 15609339	molecular_function	protein homodimerization activity	GO:0042803
gi 15609347	molecular_function	protein homodimerization activity	GO:0042803
gi 15609347	molecular_function	adenylate cyclase activity	GO:0004016
gi 15609348	molecular_function	fatty acid binding	GO:0005504
gi 15609352	molecular_function	lipoic acid binding	GO:0031405
gi 15609352	molecular_function	oxoglutarate dehydrogenase (succinyl-transferring) activity	GO:0004591
gi 15609357	molecular_function	magnesium ion binding	GO:0000287
gi 15609357	molecular_function	glutamate-ammonia ligase activity	GO:0004356
gi 15609357	molecular_function	ATP binding	GO:0005524
gi 15609357	molecular_function	GTP binding	GO:0005525
gi 15609357	molecular_function	GDP binding	GO:0019003
gi 15609357	molecular_function	manganese ion binding	GO:0030145
gi 15609357	molecular_function	ADP binding	GO:0043531
gi 15609357	molecular_function	cobalt ion binding	GO:0050897
gi 15609359	molecular_function	D-glutaminase activity	GO:0050001
gi 15609381	molecular_function	acyl binding	GO:0000035
gi 15609381	molecular_function	ACP phosphopantetheine attachment site binding involved in fatty acid biosynthetic process	GO:0000036
gi 15609381	molecular_function	protein binding	GO:0005515
gi 15609382	molecular_function	3-oxoacyl-[acyl-carrier-protein] synthase activity	GO:0004315
gi 15609382	molecular_function	protein binding	GO:0005515
gi 15609422	molecular_function	diacylglycerol O-acyltransferase activity	GO:0004144
gi 15609521	molecular_function	(2,3-dihydroxybenzoyl)adenylate synthase activity	GO:0008668
gi 15609521	molecular_function	acid-amino acid ligase activity	GO:0016881
gi 15609528	molecular_function	sulfite reductase activity	GO:0016002
gi 15609528	molecular_function	4 iron, 4 sulfur cluster binding	GO:0051539
gi 15609565	molecular_function	peroxidase activity	GO:0004601
gi 15609565	molecular_function	protein binding	GO:0005515
gi 15609565	molecular_function	alkyl hydroperoxide reductase activity	GO:0008785
gi 15609565	molecular_function	oxidoreductase activity	GO:0016491
gi 15609565	molecular_function	hydroperoxide reductase activity	GO:0032843
gi 15609565	molecular_function	peroxiredoxin activity	GO:0051920
gi 15609566	molecular_function	protein binding	GO:0005515
gi 15609566	molecular_function	disulfide oxidoreductase activity	GO:0015036
gi 15609566	molecular_function	hydroperoxide reductase activity	GO:0032843
gi 15609566	molecular_function	protein homodimerization activity	GO:0042803
gi 15609591	molecular_function	magnesium ion binding	GO:0000287
gi 15609591	molecular_function	2-oxoglutarate synthase activity	GO:0047553
gi 15609613	molecular_function	protein binding	GO:0005515
gi 15609632	molecular_function	pyruvate dehydrogenase (acetyl-transferring) activity	GO:0004739
gi 15609635	molecular_function	magnesium ion binding	GO:0000287
gi 15609639	molecular_function	carboxyl- or carbamoyltransferase activity	GO:0016743
gi 15609670	molecular_function	protein binding	GO:0005515
gi 15609670	molecular_function	protein homodimerization activity	GO:0042803
gi 15609674	molecular_function	3-dehydroquinate dehydratase activity	GO:0003855
gi 15609675	molecular_function	3-dehydroquinate synthase activity	GO:0003856
gi 15609675	molecular_function	copper ion binding	GO:0005507
gi 15609675	molecular_function	zinc ion binding	GO:0008270
gi 15609677	molecular_function	chorismate synthase activity	GO:0004107
gi 15609677	molecular_function	FMN binding	GO:0010181
gi 15609677	molecular_function	oxidoreductase activity, acting on NAD(P)H	GO:0016651
gi 15609677	molecular_function	NAD binding	GO:0051287
gi 15609743	molecular_function	amine-lyase activity	GO:0016843
gi 15609760	molecular_function	ATP binding	GO:0005524
gi 15609834	molecular_function	magnesium ion binding	GO:0000287
gi 15609834	molecular_function	dUTP diphosphatase activity	GO:0004170
gi 15609840	molecular_function	DNA binding	GO:0003677
gi 15609840	molecular_function	protein binding	GO:0005515
gi 15609840	molecular_function	sigma factor activity	GO:0016987
gi 15609848	molecular_function	DNA binding	GO:0003677
gi 15609848	molecular_function	iron ion binding	GO:0005506
gi 15609848	molecular_function	ferrous iron binding	GO:0008198
gi 15609848	molecular_function	zinc ion binding	GO:0008270
gi 15609848	molecular_function	nickel cation binding	GO:0016151
gi 15609848	molecular_function	manganese ion binding	GO:0030145
gi 15609848	molecular_function	protein homodimerization activity	GO:0042803
gi 15609848	molecular_function	cadmium ion binding	GO:0046870
gi 15609848	molecular_function	cobalt ion binding	GO:0050897
gi 15609863	molecular_function	diaminopimelate epimerase activity	GO:0008837
gi 15609890	molecular_function	4-hydroxy-tetrahydrodipicolinate synthase	GO:0008840

gi 15609910	molecular_function	4-hydroxy-tetrahydrodipicolinate reductase	GO:0008839
gi 15609910	molecular_function	NADPH binding	GO:0070402
gi 15609910	molecular_function	NADH binding	GO:0070404
gi 15609917	molecular_function	alanine dehydrogenase activity	GO:0000286
gi 15610019	molecular_function	translation termination factor activity	GO:0008079
gi 15610056	molecular_function	ATP binding	GO:0005524
gi 15610056	molecular_function	ADP binding	GO:0043531
gi 15610072	molecular_function	3-oxoacyl-[acyl-carrier-protein] synthase activity	GO:0004315
gi 15610077	molecular_function	protein binding	GO:0005515
gi 15610077	molecular_function	transferase activity, transferring acyl groups other than amino-acyl groups	GO:0016747
gi 15610102	molecular_function	pantetheine-phosphate adenylyltransferase activity	GO:0004595
gi 15610121	molecular_function	magnesium ion binding	GO:0000287
gi 15610121	molecular_function	polyphosphate kinase activity	GO:0008976
gi 15610121	molecular_function	protein homodimerization activity	GO:0042803
gi 15610123	molecular_function	damaged DNA binding	GO:0003684
gi 15610123	molecular_function	double-stranded DNA binding	GO:0003690
gi 15610123	molecular_function	protein binding	GO:0005515
gi 15610123	molecular_function	supercoiled DNA binding	GO:0097100
gi 15610132	molecular_function	3-isopropylmalate dehydrogenase activity	GO:0003862
gi 15610132	molecular_function	protein homodimerization activity	GO:0042803
gi 15610188	molecular_function	ribonucleoside-diphosphate reductase activity, thioredoxin disulfide as acceptor	GO:0004748
gi 15610188	molecular_function	protein binding	GO:0005515
gi 15610188	molecular_function	ATP binding	GO:0005524
gi 15610188	molecular_function	CDP reductase activity	GO:0051063
gi 15610225	molecular_function	diacylglycerol O-acyltransferase activity	GO:0004144
gi 15610226	molecular_function	fatty-acyl-CoA synthase activity	GO:0004321
gi 15610226	molecular_function	protein homodimerization activity	GO:0042803
gi 15610269	molecular_function	DNA binding	GO:0003677
gi 15610269	molecular_function	sequence-specific DNA binding transcription factor activity	GO:0003700
gi 15610359	molecular_function	protein binding	GO:0005515
gi 15610363	molecular_function	3-phosphoshikimate 1-carboxyvinyltransferase activity	GO:0003866
gi 15610384	molecular_function	adenosylhomocysteinase activity	GO:0004013
gi 15610384	molecular_function	NAD+ binding	GO:0070403
gi 15610416	molecular_function	acetyl-CoA carboxylase activity	GO:0003989
gi 15610416	molecular_function	propionyl-CoA carboxylase activity	GO:0004658
gi 15610416	molecular_function	protein binding	GO:0005515
gi 15610417	molecular_function	acetyl-CoA carboxylase activity	GO:0003989
gi 15610417	molecular_function	propionyl-CoA carboxylase activity	GO:0004658
gi 15610417	molecular_function	protein binding	GO:0005515
gi 15610421	molecular_function	acetyl-CoA carboxylase activity	GO:0003989
gi 15610421	molecular_function	propionyl-CoA carboxylase activity	GO:0004658
gi 15610421	molecular_function	protein binding	GO:0005515
gi 15610475	molecular_function	magnesium ion binding	GO:0000287
gi 15610475	molecular_function	isocitrate dehydrogenase (NADP+) activity	GO:0004450
gi 15610475	molecular_function	zinc ion binding	GO:0008270
gi 15610475	molecular_function	protein homodimerization activity	GO:0042803
gi 15610525	molecular_function	long-chain-enoyl-CoA hydratase activity	GO:0016508
gi 15610525	molecular_function	3-hydroxyacyl-[acyl-carrier-protein] dehydratase activity	GO:0019171
gi 15610528	molecular_function	cyclopropane-fatty-acyl-phospholipid synthase activity	GO:0008825
gi 15610546	molecular_function	IMP dehydrogenase activity	GO:0003938
gi 15610553	molecular_function	single-stranded DNA binding	GO:0003697
gi 15610554	molecular_function	metal ion binding	GO:0046872
gi 15610704	molecular_function	iron ion binding	GO:0005506
gi 15610704	molecular_function	3,4-dihydroxy-9,10-secoandrosta-1,3,5(10)-triene-9,17-dione 4,5-dioxygenase activity	GO:0047071
gi 15610705	molecular_function	4,9-DSHA hydrolase activity	GO:0034820
gi 15610705	molecular_function	protein homodimerization activity	GO:0042803
gi 15610706	molecular_function	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen	GO:0016712
gi 15610717	molecular_function	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase activity	GO:0008685
gi 15610728	molecular_function	heme binding	GO:0020037
gi 15610733	molecular_function	DNA binding	GO:0003677
gi 15610736	molecular_function	pantothenate kinase activity	GO:0004594
gi 15610764	molecular_function	magnesium ion binding	GO:0000287
gi 15610764	molecular_function	inorganic diphosphatase activity	GO:0004427
gi 15610782	molecular_function	magnesium ion binding	GO:0000287
gi 15610782	molecular_function	DNA topoisomerase type I activity	GO:0003917
gi 15610812	molecular_function	DNA binding	GO:0003677
gi 15610812	molecular_function	sequence-specific DNA binding transcription factor activity	GO:0003700
gi 15610812	molecular_function	cAMP binding	GO:0030552
gi 15610812	molecular_function	protein homodimerization activity	GO:0042803
gi 15610814	molecular_function	DNA binding	GO:0003677
gi 15610870	molecular_function	diacylglycerol O-acyltransferase activity	GO:0004144
gi 15610936	molecular_function	protein binding	GO:0005515
gi 15610936	molecular_function	transferase activity, transferring acyl groups other than amino-acyl groups	GO:0016747
gi 15610937	molecular_function	adenylyltransferase activity	GO:0070566

gi 15610945	molecular_function	UDP-galactopyranose mutase activity	GO:0008767
gi 15610974	molecular_function	prephenate dehydratase activity	GO:0004664
gi 15610974	molecular_function	amino acid binding	GO:0016597
gi 15610974	molecular_function	protein homodimerization activity	GO:0042803
gi 15610974	molecular_function	chorismate mutase activity	GO:0004106
gi 15610982	molecular_function	superoxide dismutase activity	GO:0004784
gi 15610982	molecular_function	iron ion binding	GO:0005506
gi 15610982	molecular_function	protein homodimerization activity	GO:0042803
gi 15610985	molecular_function	DNA binding	GO:0003677
gi 15610988	molecular_function	DNA binding	GO:0003677
gi 15610988	molecular_function	protein homodimerization activity	GO:0042803
gi 15610995	molecular_function	protein binding	GO:0005515
gi 15611017	molecular_function	protein binding	GO:0005515
gi 15611050	molecular_function	protein disulfide isomerase activity	GO:0006467
gi 15611050	molecular_function	electron carrier activity	GO:0009055
gi 15611050	molecular_function	protein disulfide oxidoreductase activity	GO:0015035
gi 15611050	molecular_function	disulfide oxidoreductase activity	GO:0015036
gi 15611050	molecular_function	glutathione disulfide oxidoreductase activity	GO:0015038
gi 15611050	molecular_function	S-nitrosoglutathione reductase activity	GO:0080007
gi 161352467	molecular_function	magnesium ion binding	GO:0000287
gi 161352467	molecular_function	protein binding	GO:0005515
gi 161352467	molecular_function	2-oxoglutarate decarboxylase activity	GO:0008683
gi 161352467	molecular_function	electron carrier activity	GO:0009055
gi 161352467	molecular_function	2-hydroxy-3-oxoadipate synthase activity	GO:0050439
gi 161352467	molecular_function	oxoglutarate dehydrogenase (succinyl-transferring) activity	GO:0004591
gi 345462027	molecular_function	magnesium ion binding	GO:0000287
gi 345462027	molecular_function	2-isopropylmalate synthase activity	GO:0003852
gi 345462027	molecular_function	zinc ion binding	GO:0008270
gi 345462027	molecular_function	manganese ion binding	GO:0030145
gi 345462027	molecular_function	potassium ion binding	GO:0030955
gi 345462027	molecular_function	protein homodimerization activity	GO:0042803
gi 448824735	molecular_function	magnesium ion binding	GO:0000287
gi 448824735	molecular_function	DNA topoisomerase type II (ATP-hydrolyzing) activity	GO:0003918
gi 448824735	molecular_function	ATP binding	GO:0005524
gi 448824735	molecular_function	protein heterodimerization activity	GO:0046982
gi 448824753	molecular_function	glycine hydroxymethyltransferase activity	GO:0004372
gi 448824753	molecular_function	pyridoxal phosphate binding	GO:0030170
gi 448824753	molecular_function	protein homodimerization activity	GO:0042803
gi 448824754	molecular_function	fructose 1,6-bisphosphate 1-phosphatase activity	GO:0042132
gi 448824781	molecular_function	magnesium ion binding	GO:0000287
gi 448824781	molecular_function	pyruvate dehydrogenase (acetyl-transferring) activity	GO:0004739
gi 448824785	molecular_function	trehalase activity	GO:0015927
gi 448824785	molecular_function	magnesium ion binding	GO:0000287
gi 57116704	molecular_function	succinate-semialdehyde dehydrogenase [NAD(P)+] activity	GO:0009013
gi 57116734	molecular_function	isocitrate lyase activity	GO:0004451
gi 57116734	molecular_function	methylisocitrate lyase activity	GO:0046421
gi 57116903	molecular_function	succinate-semialdehyde dehydrogenase [NAD(P)+] activity	GO:0009013
gi 57116956	molecular_function	pyridoxal phosphate binding	GO:0030170
gi 57116972	molecular_function	cysteine synthase activity	GO:0004124
gi 57116972	molecular_function	protein binding	GO:0005515
gi 57116972	molecular_function	pyridoxal phosphate binding	GO:0030170
gi 57116972	molecular_function	protein homodimerization activity	GO:0042803
gi 57116987	molecular_function	aminoglycoside N-acetyltransferase activity	GO:0034069
gi 57116990	molecular_function	NAD+ synthase (glutamine-hydrolyzing) activity	GO:0003952
gi 57116993	molecular_function	ribose-5-phosphate isomerase activity	GO:0004751
gi 57116993	molecular_function	protein homodimerization activity	GO:0042803
gi 57117031	molecular_function	iron ion binding	GO:0005506
gi 57117031	molecular_function	nickel cation binding	GO:0016151
gi 57117031	molecular_function	manganese ion binding	GO:0030145
gi 57117031	molecular_function	cobalt ion binding	GO:0050897
gi 57117031	molecular_function	metalloaminopeptidase activity	GO:0070006
gi 57117042	molecular_function	phosphoglycerate dehydrogenase activity	GO:0004617
gi 57117044	molecular_function	magnesium ion binding	GO:0000287
gi 57117044	molecular_function	acetolactate synthase activity	GO:0003984
gi 57117044	molecular_function	thiamine pyrophosphate binding	GO:0030976
gi 57117051	molecular_function	protein binding	GO:0005515
gi 57117081	molecular_function	mannose-1-phosphate guanylyltransferase (GDP) activity	GO:0008928
gi 57117125	molecular_function	arylamine N-acetyltransferase activity	GO:0004060
gi 57117131	molecular_function	protein binding	GO:0005515
gi 57117131	molecular_function	ATPase activity	GO:0016887
gi 57117131	molecular_function	protein homodimerization activity	GO:0042803
gi 57117131	molecular_function	protein binding involved in protein folding	GO:0044183