

Table 1. Biological process

Level 2	Numbers Transcripts (%)	Level 3	Numbers Transcripts (%)
cellular process	32,896(95)	single-organism cellular process	28,309(86)
		cellular metabolic process	26,463(80)
		regulation of cellular process	21,718(66)
		cellular component organization	17,345(53)
		cellular response to stimulus	17,224(52)
		positive regulation of cellular process	13,038(40)
		negative regulation of cellular process	11,664(35)
		multi-organism cellular process	3,532(11)
		cell wall organization or biogenesis	175(1)
		cell separation after cytokinesis	68(0)
		cytolysis	59(0)
		intercellular transport	49(0)
		cellular detoxification	42(0)
		phenotypic switching	22(0)
single-organism process	31,364(90)	single-organism cellular process	28,309(90)
		single-multicellular organism process	19,509(62)
		single-organism developmental process	18,866(60)
		single-organism metabolic process	17,978(57)
		single organism signaling	13,688(44)
		single-organism localization	13,195(42)
		death	5,514(18)
		cell proliferation	4,559(15)
		single organism reproductive process	2,555(8)
		single organism cell adhesion	1,872(6)
		single-organism behavior	933(3)
		pigmentation	325(1)
		filamentous growth	183(1)
		natural killer cell mediated cytotoxicity	130(0)
		ovulation cycle process	125(0)
		T cell mediated cytotoxicity	41(0)
		nitrogen utilization	19(0)
		carbohydrate utilization	12(0)
		complement-dependent cytotoxicity	4(0)
		carbon utilization	4(0)
metabolic process	28,867(83)	organic substance metabolic process	26,676(92)
		cellular metabolic process	26,463(92)

		primary metabolic process	25,725(89)
		nitrogen compound metabolic process	18,476(64)
		single-organism metabolic process	17,978(62)
		biosynthetic process	16,092(56)
		regulation of metabolic process	15,887(55)
		positive regulation of metabolic process	9,999(35)
		negative regulation of metabolic process	7,737(27)
		catabolic process	7,507(26)
		methylation	854(3)
		hormone metabolic process	683(2)
		multi-organism metabolic process	630(2)
		detoxification	43(0)
		wax metabolic process	4(0)
biological regulation	26,082(75)	regulation of biological quality	11,177(43)
		regulation of molecular function	8,343(32)
regulation of biological process	24,949(72)	regulation of cellular process	21,718(87)
		regulation of metabolic process	15,887(64)
		regulation of multicellular organismal process	11,114(45)
		regulation of response to stimulus	10,597(42)
		regulation of developmental process	9,598(38)
		regulation of signaling	8,648(35)
		regulation of localization	7,644(31)
		regulation of immune system process	4,579(18)
		regulation of locomotion	2,795(11)
		regulation of cellular component biogenesis	2,362(9)
		regulation of multi-organism process	2,071(8)
		regulation of homeostatic process	1,705(7)
		regulation of growth	1,501(6)
		regulation of action potential	437(2)
		regulation of reproductive process	316(1)
		regulation of plasma lipoprotein particle levels	255(1)
		regulation of circadian rhythm	251(1)
		regulation of fibrinolysis	171(1)
		regulation of cell killing	106(0)
		regulation of long-term synaptic potentiation	35(0)
		regulation of long term synaptic depression	20(0)

		regulation of nitrogen utilization	14(0)
		regulation of estrogen receptor binding	12(0)
		regulation of asexual reproduction	11(0)
		regulation of membrane hyperpolarization	8(0)
		regulation of Rho guanyl-nucleotide exchange factor activity	6(0)
		regulation of carbohydrate utilization	6(0)
response to stimulus	21,134(61)	cellular response to stimulus	17,224(81)
		response to stress	12,376(59)
		response to chemical	12,344(58)
		regulation of response to stimulus	10,597(50)
		response to external stimulus	7,813(37)
		response to endogenous stimulus	6,202(29)
		positive regulation of response to stimulus	6,096(29)
		immune response	4,230(20)
		negative regulation of response to stimulus	4,144(20)
		response to abiotic stimulus	3,969(19)
		response to biotic stimulus	2,776(13)
		detection of stimulus	900(4)
		muscle adaptation	452(2)
		protein activation cascade	178(1)
		response to activity	106(1)
		response to redox state	52(0)
		response to inactivity	37(0)
		response to stimulus involved in regulation of muscle adaptation	27(0)
multicellular organismal process	20,410(59)	single-multicellular organism process	19,509(96)
		regulation of multicellular organismal process	11,114(54)
		positive regulation of multicellular organismal process	4,450(22)
		negative regulation of multicellular organismal process	2,858(14)
		multicellular organism reproduction	1,440(7)
		multi-multicellular organism process	336(2)
developmental process	19,094(55)	single-organism developmental process	18,866(99)
		anatomical structure development	17,515(92)
		regulation of developmental process	9,598(50)

		anatomical structure morphogenesis	8,776(46)
		anatomical structure formation involved in morphogenesis	3,883(20)
		positive regulation of developmental process	3,303(17)
		negative regulation of developmental process	2,266(12)
		developmental process involved in reproduction	1,421(7)
		maintenance of cell number	404(2)
		abscission	20(0)
		development involved in symbiotic interaction	19(0)
		spore germination	14(0)
		dormancy process	10(0)
localization	17,838(51)	establishment of localization	15,180(85)
		single-organism localization	13,195(74)
		cellular localization	9,355(52)
		macromolecule localization	7,924(44)
		regulation of localization	7,644(43)
		localization of cell	4,082(23)
		maintenance of location	1,284(7)
		multi-organism localization	305(2)
cellular component organization or biogenesis	17,738(51)	cellular component organization	17,345(98)
		cellular component biogenesis	8,312(47)
positive regulation of biological process	14,955(43)	positive regulation of cellular process	13,038(87)
		positive regulation of metabolic process	9,999(67)
		positive regulation of response to stimulus	6,096(41)
		positive regulation of signaling	4,828(32)
		positive regulation of multicellular organismal process	4,450(30)
		positive regulation of developmental process	3,303(22)
		positive regulation of transport	3,252(22)
		positive regulation of immune system process	2,800(19)
		positive regulation of locomotion	1,380(9)
		positive regulation of cellular protein localization	1,189(8)

		positive regulation of cellular component biogenesis	1,014(7)
		positive regulation of growth	671(4)
		positive regulation of homeostatic process	649(4)
		positive regulation of multi-organism process	645(4)
		positive regulation of reproductive process	168(1)
		positive regulation of action potential	166(1)
		positive regulation of membrane depolarization	159(1)
		positive regulation of lipid storage	64(0)
		positive regulation of cell killing	51(0)
		positive regulation of fibrinolysis	32(0)
		positive regulation of protein localization to synapse	23(0)
		positive regulation of circadian rhythm	22(0)
		positive regulation of long term synaptic depression	15(0)
		positive regulation of membrane hyperpolarization	8(0)
		positive regulation of long-term synaptic potentiation	7(0)
		positive regulation of Rho guanyl-nucleotide exchange factor activity	6(0)
		positive regulation of ligand-dependent nuclear receptor transcription coactivator activity	6(0)
		positive regulation of asexual reproduction	5(0)
signaling	13,742(40)	single organism signaling	13,688(100)
		regulation of signaling	8,648(63)
		positive regulation of signaling	4,828(35)
		negative regulation of signaling	3,510(26)
negative regulation of biological process	12,740(37)	negative regulation of cellular process	11,664(92)
		negative regulation of metabolic process	7,737(61)
		negative regulation of response to stimulus	4,144(33)
		negative regulation of signaling	3,510(28)
		negative regulation of multicellular organismal process	2,858(22)
		negative regulation of developmental	2,266(18)

		process	
		negative regulation of transport	1,403(11)
		negative regulation of locomotion	1,039(8)
		negative regulation of immune system process	1,004(8)
		negative regulation of homeostatic process	769(6)
		negative regulation of multi-organism process	603(5)
		negative regulation of growth	456(4)
		negative regulation of cellular protein localization	416(3)
		negative regulation of fibrinolysis	154(1)
		negative regulation of lipid storage	98(1)
		negative regulation of reproductive process	80(1)
		negative regulation of cell killing	45(0)
		negative regulation of circadian rhythm	31(0)
		negative regulation of membrane depolarization	15(0)
		negative regulation of long-term synaptic potentiation	5(0)
		negative regulation of ligand-dependent nuclear receptor transcription coactivator activity	5(0)
		negative regulation of action potential	4(0)
multi-organism process	7,228(21)	multi-organism cellular process	3,532(49)
		interspecies interaction between organisms	3,415(47)
		response to other organism	2,608(36)
		regulation of multi-organism process	2,071(29)
		multi-organism reproductive process	1,828(25)
		modification of morphology or physiology of other organism	673(9)
		positive regulation of multi-organism process	645(9)
		multi-organism metabolic process	630(9)
		negative regulation of multi-organism process	603(8)
		multi-multicellular organism process	336(5)
		multi-organism localization	305(4)
		pathogenesis	187(3)
		multi-organism behavior	183(3)
		intraspecies interaction between organisms	177(2)

		adhesion of symbiont to host	161(2)
		growth involved in symbiotic interaction	26(0)
		development involved in symbiotic interaction	19(0)
immune system process	7,210(21)	regulation of immune system process	4,579(64)
		immune response	4,230(59)
		positive regulation of immune system process	2,800(39)
		immune effector process	2,310(32)
		immune system development	1,958(27)
		activation of immune response	1,885(26)
		leukocyte activation	1,638(23)
		negative regulation of immune system process	1,004(14)
		antigen processing and presentation	859(12)
		leukocyte migration	791(11)
		myeloid cell homeostasis	311(4)
		production of molecular mediator of immune response	289(4)
		lymphocyte costimulation	171(2)
		somatic diversification of immune receptors	124(2)
		leukocyte homeostasis	121(2)
		T cell selection	76(1)
		tolerance induction	38(1)
locomotion	5,855(17)	cell motility	4,082(70)
		regulation of locomotion	2,795(48)
		taxis	2,511(43)
		positive regulation of locomotion	1,380(24)
		negative regulation of locomotion	1,039(18)
		movement in environment of other organism involved in symbiotic interaction	900(15)
		locomotion involved in locomotory behavior	18(0)
		dissemination or transmission of organism from other organism involved in symbiotic interaction	12(0)
		directional locomotion	2(0)
biological adhesion	3,906(11)	cell adhesion	3,760(96)
		adhesion of symbiont to host	161(4)

reproductive process	2,907(8)	single organism reproductive process	2,555(88)
		multi-organism reproductive process	1,828(63)
		developmental process involved in reproduction	1,421(49)
		multicellular organismal reproductive process	1,401(48)
		regulation of reproductive process	316(11)
		positive regulation of reproductive process	168(6)
		negative regulation of reproductive process	80(3)
		reproductive behavior	19(1)
		reproductive process in single-celled organism	14(0)
		growth	2,366(7)
		cell growth	1,388(59)
		developmental growth	1,294(55)
		positive regulation of growth	671(28)
		negative regulation of growth	456(19)
		filamentous growth	183(8)
		growth involved in symbiotic interaction	26(1)
		ovarian cumulus expansion	11(0)
		primary ovarian follicle growth	2(0)
		budding cell bud growth	2(0)
reproduction	2,168(6)	sexual reproduction	1,567(72)
		multicellular organism reproduction	1,440(66)
		meiotic cell cycle	652(30)
		asexual reproduction	72(3)
		reproduction of a single-celled organism	30(1)
behavior	1,923(6)	single-organism behavior	933(49)
		regulation of behavior	763(40)
		positive regulation of behavior	466(24)
		locomotory behavior	327(17)
		negative regulation of behavior	314(16)
		multi-organism behavior	183(10)
		feeding behavior	131(7)
		rhythmic behavior	60(3)
		behavioral defense response	56(3)
		reproductive behavior	19(1)
biological phase	931(3)	cell cycle phase	913(98)

		estrous cycle phase	16(2)
		single-celled organism vegetative growth phase	3(0)
		menstrual cycle phase	2(0)
rhythmic process	701(2)	circadian rhythm	503(72)
		ovulation cycle	139(20)
		ovulation cycle process	125(18)
		rhythmic behavior	60(9)
		ultradian rhythm	2(0)
cell killing	218(1)	leukocyte mediated cytotoxicity	184(84)
		regulation of cell killing	106(49)
		positive regulation of cell killing	51(23)
		negative regulation of cell killing	45(21)
		killing of cells of other organism	38(17)
		complement-dependent cytotoxicity	4(2)
cell aggregation	41(0)	cartilage condensation	41(100)

Table 2. Cellular component

Level 2	Numbers Transcripts (%)	Level 3	Numbers Transcripts (%)
cell	32,754(96)	oxidoreductase complex	324(1)
cell part	32,739(96)	intracellular	31,136(95)
		intracellular part	30,865(94)
		cell periphery	11,735(36)
		plasma membrane	11,289(34)
		endomembrane system	11,031(34)
		cell projection	6,997(21)
		plasma membrane part	6,907(21)
		neuron part	4,695(14)
		envelope	3,800(12)
		cell projection part	3,440(11)
		cell surface	2,399(7)
		nuclear outer membrane- endoplasmic reticulum membrane network	1,953(6)
		cell leading edge	1,435(4)
		apical part of cell	1,174(4)
		cell body	1,055(3)
		postsynapse	878(3)
		site of polarized growth	475(1)
		midbody	462(1)
		myelin sheath	458(1)
		postsynaptic density	425(1)
		oxidoreductase complex	324(1)
		basal part of cell	318(1)
		sperm part	231(1)
		external encapsulating structure	222(1)
		coated pit	215(1)
		cell division site	200(1)
		cell division site part	180(1)
		cell surface furrow	158(0)
		protein serine/threonine phosphatase complex	122(0)
		retromer complex	93(0)
		periplasmic space	73(0)
		external encapsulating structure part	72(0)
		contractile ring	66(0)

		cell septum	55(0)
		outer dense plaque of desmosome	38(0)
		inner dense plaque of desmosome	38(0)
		Schmidt-Lanterman incisure	36(0)
		compact myelin	36(0)
		cell trailing edge	35(0)
		cell pole	33(0)
		cellular bud	31(0)
		myelin sheath abaxonal region	25(0)
		spitzenkorper	20(0)
		lateral loop	19(0)
		Flemming body	15(0)
		retromer complex, outer shell	10(0)
		annulate lamellae	10(0)
		stereocilia coupling link	9(0)
		myelin sheath adaxonal region	9(0)
		molybdopterin synthase complex	7(0)
		type II protein secretion system complex	5(0)
		retromer complex, inner shell	5(0)
		cell envelope Sec protein transport complex	4(0)
		type I protein secretion system complex	3(0)
		lateral part of cell	3(0)
organelle	29,819(87)	intracellular organelle	27,838(93)
		membrane-bounded organelle	27,775(93)
		non-membrane-bounded organelle	11,676(39)
		vesicle	11,488(39)
		extracellular organelle	8,873(30)
		cilium	1,969(7)
		organellar ribosome	110(0)
membrane	22,507(66)	plasma membrane	11,289(50)
		organelle membrane	8,576(38)
		whole membrane	6,505(29)
		membrane region	4,123(18)
		membrane protein complex	3,707(16)
		nuclear outer membrane-endoplasmic reticulum	1,953(9)

		membrane network	
		side of membrane	1,091(5)
		outer membrane	360(2)
		photosynthetic membrane	344(2)
		coated membrane	245(1)
		ATPase dependent	130(1)
		transmembrane transport complex	
		virion membrane	116(1)
		prospore membrane	2(0)
		perinuclear endoplasmic reticulum membrane	1(0)
organelle part	22,071(64)	intracellular organelle part	21,506(97)
		organelle lumen	12,018(54)
		organelle membrane	8,576(39)
		ciliary part	1,195(5)
		contractile fiber part	1,168(5)
		intrinsic component of organelle membrane	492(2)
		organellar ribosome	110(0)
		luminal side of membrane	66(0)
		stereocilium	52(0)
		plasma membrane-derived thylakoid photosystem II	40(0)
		organelle membrane contact site	37(0)
		plasma membrane-derived photosystem I	12(0)
		stereocilium membrane	10(0)
		bacterial-type flagellum part	8(0)
		symbiont-containing vacuole membrane	4(0)
		kinocilium	4(0)
extracellular region	15,176(44)	extracellular organelle	8,873(58)
		extracellular vesicle	8,871(58)
		synaptic cleft	21(0)
		apoplast	1(0)
macromolecular complex	13,974(41)	protein complex	12,010(86)
		ribonucleoprotein complex	2,305(16)
		chromatin	1,302(9)
		protein-DNA complex	327(2)

		protein-lipid complex	162(1)
membrane part	13,496(39)	intrinsic component of membrane	7,163(53)
		plasma membrane part	6,907(51)
		membrane region	4,123(31)
		membrane protein complex	3,707(27)
		endoplasmic reticulum membrane	1,885(14)
		side of membrane	1,091(8)
		extrinsic component of membrane	744(6)
		respiratory chain	417(3)
		mitochondrial membrane part	372(3)
		nuclear outer membrane	41(0)
		nuclear membrane part	5(0)
membrane-enclosed lumen	12,120(35)	organelle lumen	12,018(99)
		organelle envelope lumen	141(1)
extracellular region part	11,612(34)	extracellular organelle	8,873(76)
		extracellular space	3,777(33)
		proteinaceous extracellular matrix	744(6)
		blood microparticle	404(3)
		basement membrane	253(2)
		intercellular bridge	159(1)
		plasma lipoprotein particle	155(1)
		fibrinogen complex	121(1)
		fibril	98(1)
		complex of collagen trimers	62(1)
		basal lamina	60(1)
		fibrillar collagen trimer	47(0)
		laminin complex	42(0)
		anchoring collagen complex	28(0)
		basement membrane collagen trimer	15(0)
		network-forming collagen trimer	11(0)
		insulin-like growth factor binding protein complex	6(0)
		collagen type VI trimer	6(0)
		sublamina densa	5(0)
		symbiont-containing vacuole	4(0)

		membrane	
		apical lamina of hyaline layer	4(0)
		extracellular space of host	2(0)
		mucus layer	1(0)
		hyaluronon cable	1(0)
cell junction	3,592(10)	anchoring junction	1,927(54)
		cell-substrate junction	1,618(45)
		cell-cell junction	1,277(36)
synapse	2,280(7)	postsynapse	878(39)
		presynapse	483(21)
		neuromuscular junction	132(6)
		excitatory synapse	103(5)
		inhibitory synapse	46(2)
		synaptic cleft	21(1)
		asymmetric synapse	14(1)
		ribbon synapse	9(0)
		symmetric synapse	8(0)
synapse part	1,582(5)	postsynapse	878(55)
		synaptic membrane	509(32)
		presynapse	483(31)
		postsynaptic density	425(27)
		synaptic vesicle	367(23)
		dendritic spine	276(17)
		terminal bouton	259(16)
		presynaptic active zone	103(7)
		synaptic vesicle membrane	93(6)
		integral component of synaptic vesicle membrane	29(2)
		synaptic cleft	21(1)
		dendritic spine head	17(1)
		dendritic spine membrane	11(1)
		dendritic spine neck	6(0)
		presynaptic active zone	5(0)
		cytoplasmic component	
		cytoskeleton of presynaptic active zone	5(0)
		active zone	
		presynaptic active zone membrane	4(0)
extracellular matrix	1,352(4)	proteinaceous extracellular matrix	744(55)

other organism part	931(3)	other organism cell	922(99)
		host cell part	909(98)
		other organism membrane	428(46)
		extracellular space of host	2(0)
other organism	931(3)	host	918(99)
virion	808(2)		
virion part	514(2)	viral capsid	300(58)
		virion membrane	116(23)
		viral membrane	115(22)
		viral nucleocapsid	76(15)
		viral outer capsid	21(4)
		viral tegument	18(4)
		viral intermediate capsid	8(2)
extracellular matrix component	476(1)	basement membrane	253(53)
		fibril	98(21)
		complex of collagen trimers	62(13)
		basal lamina	60(13)
		elastic fiber	55(12)
		fibrillar collagen trimer	47(10)
		laminin complex	42(9)
		anchoring collagen complex	28(6)
		basement membrane collagen trimer	15(3)
		network-forming collagen trimer	11(2)
		collagen type VI trimer	6(1)
		sublamina densa	5(1)
		apical lamina of hyaline layer	4(1)
		perineuronal net	2(0)
nucleoid	172(1)	mitochondrial nucleoid	135(78)
		bacterial nucleoid	25(15)

Table 3. Molecular function

Level 2	Numbers Transcripts (%)	Level 3	Numbers Transcripts
binding	32,804(93)	protein binding	26,131(80)
		ion binding	17,424(53)
		organic cyclic compound binding	13,788(42)
		heterocyclic compound binding	13,592(41)
		small molecule binding	7,412(23)
		carbohydrate derivative binding	5,379(16)
		macromolecular complex binding	4,166(13)
		lipid binding	2,300(7)
		cofactor binding	1,077(3)
		sulfur compound binding	724(2)
		binding, bridging	650(2)
		amide binding	633(2)
		carbohydrate binding	460(1)
		modified amino acid binding	319(1)
		drug binding	300(1)
		metal cluster binding	258(1)
		extracellular matrix binding	228(1)
		antigen binding	210(1)
		quaternary ammonium group binding	207(1)
		hormone binding	187(1)
		neurotransmitter binding	146(0)
		oxygen binding	114(0)
		toxic substance binding	77(0)
		pattern binding	77(0)
		acyl binding	67(0)
		selenium binding	35(0)
		host cell surface binding	28(0)
		amine binding	22(0)
		virion binding	21(0)
		microfibril binding	18(0)
		tetrahydrofolyl-poly(glutamate) polymer binding	17(0)
		hydroxyapatite binding	16(0)
		odorant binding	5(0)
pigment binding	3(0)		
fatty acid derivative binding	3(0)		

		dinitrosyl-iron complex binding	3(0)
		xenon atom binding	2(0)
		platinum binding	2(0)
		nitric oxide binding	2(0)
catalytic activity	20,506(58)	hydrolase activity	10,188(50)
		transferase activity	8,313(41)
		oxidoreductase activity	3,453(17)
		ligase activity	1,106(5)
		lyase activity	904(4)
		isomerase activity	431(2)
		demethylase activity	92(0)
		cyclase activity	91(0)
		deaminase activity	62(0)
		recombinase activity	36(0)
		Mo-molybdopterin cofactor sulfurase activity	26(0)
		second spliceosomal transesterification activity	8(0)
		transposase activity	6(0)
		first spliceosomal transesterification activity	4(0)
		radical SAM enzyme activity	3(0)
		glycogen debranching enzyme activity	3(0)
transporter activity	4,291(12)	substrate-specific transporter activity	3,728(87)
		transmembrane transporter activity	3,513(82)
		carbohydrate transporter activity	127(3)
		carbohydrate derivative transporter activity	122(3)
		cofactor transporter activity	107(2)
		toxin transporter activity	101(2)
		vitamin transporter activity	88(2)
		neurotransmitter transporter activity	69(2)
		drug transporter activity	46(1)
		nucleocytoplasmic transporter activity	31(1)
		xenobiotic transporter activity	27(1)
		fatty-acyl-CoA transporter activity	7(0)

molecular transducer activity	3,238(9)	signal transducer activity	2,590(80)		
		receptor activity	2,549(79)		
molecular function regulator	3,143(9)	enzyme regulator activity	2,314(74)		
		guanyl-nucleotide exchange factor activity	553(18)		
		channel regulator activity	302(10)		
		receptor regulator activity	126(4)		
structural molecule activity	2,486(7)	structural constituent of ribosome	1,021(41)		
		structural constituent of cytoskeleton	473(19)		
		structural constituent of muscle protein complex scaffold	195(8)		
		extracellular matrix structural constituent	190(8)		
		structural molecule activity conferring elasticity	140(6)		
		structural constituent of eye lens	51(2)		
		structural constituent of virion	24(1)		
		structural constituent of nuclear pore	22(1)		
		structural constituent of cuticle	15(1)		
		structural constituent of bone	7(0)		
		structural constituent of cell wall	2(0)		
		transcription factor activity, protein binding	1,549(4)	transcription factor activity, transcription factor binding	1,537(99)
				transcription factor activity, core RNA polymerase binding	3(0)
nucleic acid binding transcription factor activity	1,498(4)	transcription factor activity, sequence-specific DNA binding	1,496(100)		
		RNA binding transcription factor activity	2(0)		
electron carrier activity	483(1)	cytochrome-c oxidase activity	104(22)		
		electron transporter, transferring electrons within the cyclic electron transport	26(5)		

		pathway of photosynthesis activity	
		electron transporter, transferring electrons from CoQH2-cytochrome c reductase complex and cytochrome c oxidase complex activity	8(2)
		electron transporter, transferring electrons within cytochrome c oxidase complex activity	2(0)
antioxidant activity	219(1)	peroxidase activity	176(80)
		peroxiredoxin activity	16(7)
		superoxide dismutase activity	9(4)
		thioredoxin-disulfide reductase activity	6(3)
		glutathione dehydrogenase (ascorbate) activity	5(2)
		glutathione-disulfide reductase activity	4(2)
translation regulator activity	86(0)	translation repressor activity	54(63)
		translation regulator activity, nucleic acid binding	45(52)
		translation factor activity, non-nucleic acid binding	1(1)
chemoattractant activity	48(0)		
nutrient reservoir activity	33(0)		
metallochaperone activity	10(0)	copper chaperone activity	8(80)
		iron chaperone activity	2(20)
protein tag	7(0)		
chemorepellent activity	4(0)		
