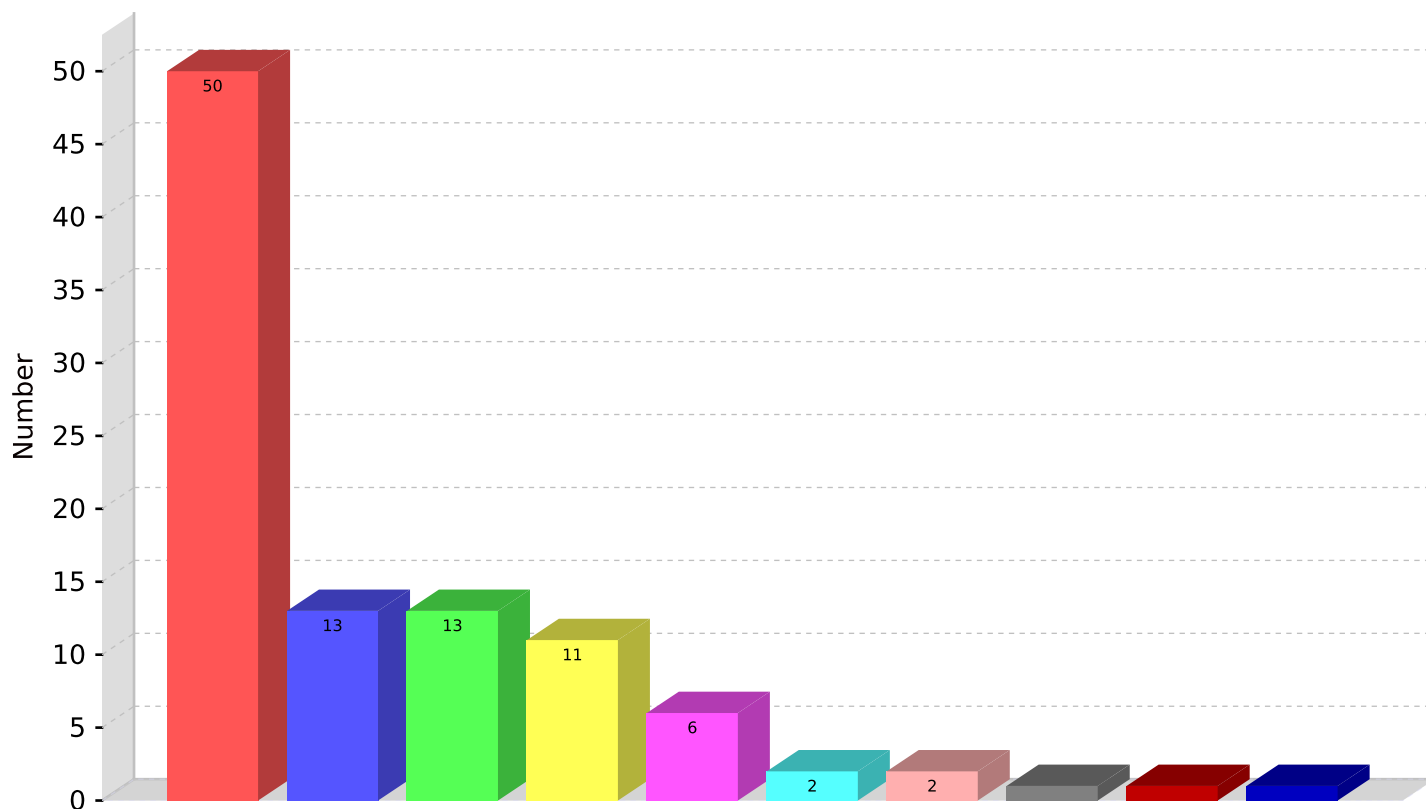


GO by Process/ GO Level:3



- oxidation reduction
- cell division
- cell cycle
- biosynthetic process
- response to stress
- cell adhesion
- chromosome segregation
- primary metabolic process
- pathogenesis
- nitrogen compound metabolic process

biosynthetic process

CDS	Annotation
Cp1002_1103	aminotransferase biotin synthesis related protein
Cp1002_1228	cobalamin-biosynthesis related aminotransferase
Cp1002_1798	cobalamin-biosynthesis related aminotransferase
Cp1002_0784	glycosyl transferase
Cp1002_1141	glycosyl transferase
Cp1002_1526	isochorismate synthase
Cp1002_0502	mannose-1-phosphate guanyltransferase
Cp1002_0772	n-succinyldiaminopimelate aminotransferase
Cp1002_1182	pima gene product
Cp1002_1951	pks13 gene product
Cp1002_0668	utp-glucose-1-phosphate uridylyltransferase

cell adhesion

CDS	Annotation
Cp1002_0113	abc-type iron uptake system substrate-binding protein
Cp1002_1765	secreted protein

cell cycle

CDS	Annotation
Cp1002_1260	cell division protein
Cp1002_1388	cell division protein
Cp1002_1392	cell division protein
Cp1002_1168	esx-3 secretion system protein eccc3
Cp1002_1390	murc gene product
Cp1002_1396	mure gene product
Cp1002_1395	murf gene product
Cp1002_1391	murg gene product
Cp1002_1386	sepf gene product
Cp1002_0715	septum formation initiator protein
Cp1002_1601	trigger factor
Cp1002_1695	udp-n-acetylglucosamine 1-carboxyvinyltransferase
Cp1002_1393	udp-n-acetylmuramoyl-l-alanyl-d-glutamate synthetase

cell division

CDS	Annotation
Cp1002_0581	cell division protein
Cp1002_1260	cell division protein
Cp1002_1392	cell division protein
Cp1002_1794	cell division protein
Cp1002_1168	esx-3 secretion system protein eccc3
Cp1002_1390	murc gene product
Cp1002_1396	mure gene product
Cp1002_1395	murf gene product
Cp1002_1391	murg gene product
Cp1002_0866	segregation and condensation protein b
Cp1002_1601	trigger factor
Cp1002_1695	udp-n-acetylglucosamine 1-carboxyvinyltransferase
Cp1002_1393	udp-n-acetylmuramoyl-l-alanyl-d-glutamate synthetase

chromosome segregation

CDS	Annotation
Cp1002_1260	cell division protein
Cp1002_1168	esx-3 secretion system protein eccc3

nitrogen compound metabolic process

CDS	Annotation
Cp1002_1915	urease accessory protein

oxidation reduction

CDS	Annotation
Cp1002_2024	2-dehydropantoate 2-reductase
Cp1002_1299	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase
Cp1002_1165	4-hydroxy-3-methylbut-2-enyl diphosphate reductase
Cp1002_0879	aldo keto-reductase family protein
Cp1002_1218	alkyl hydroperoxide reductase
Cp1002_1219	alkyl hydroperoxide reductase subunit
Cp1002_1642	bacterioferritin comigratory protein
Cp1002_0173	catalase
Cp1002_1785	choline dehydrogenase
Cp1002_1424	cytochrome c oxidase subunit
Cp1002_1095	cytochrome oxidase assembly protein
Cp1002_1117	cytochrome ubiquinol oxidase subunit
Cp1002_1694	cytochrome ubiquinol oxidase subunit
Cp1002_0894	d-3-phosphoglycerate dehydrogenase
Cp1002_1265	dihydrodipicolinate reductase
Cp1002_0240	dihydrolipoamide dehydrogenase
Cp1002_2043	dna protection during starvation protein
Cp1002_0953	dtdp-4-dehydrorhamnose reductase
Cp1002_0445	fold gene product
Cp1002_0273	glutamyl-trna reductase
Cp1002_1105	glutathione peroxidase
Cp1002_1106	glyceraldehyde-3-phosphate dehydrogenase
Cp1002_1866	glycerol-3-phosphate dehydrogenase
Cp1002_0831	homoserine dehydrogenase
Cp1002_1469	inosine 5-monophosphate dehydrogenase
Cp1002_0424	inosine-5 -monophosphate dehydrogenase
Cp1002_0890	ketol-acid reductoisomerase
Cp1002_1991	l-lactate dehydrogenase
Cp1002_1993	manganese superoxide dismutase
Cp1002_0839	membrane protein
Cp1002_1522	membrane protein
Cp1002_0204	n-acetyl-gamma-glutamyl-phosphate reductase
Cp1002_1808	nitronate monooxygenase
Cp1002_0827	oxidoreductase subunit
Cp1002_0337	oxidoreductase
Cp1002_1088	oxidoreductase
Cp1002_1528	oxygen-independent coproporphyrinogen iii oxidase
Cp1002_1192	peptide methionine sulfoxide reductase
Cp1002_1392	phytoene dehydrogenase
Cp1002_1496	pyruvate dehydrogenase subunit e1
Cp1002_1672	ribonucleotide-diphosphate reductase subunit beta
Cp1002_0798	suca gene product
Cp1002_0243	succinate dehydrogenase flavoprotein subunit
Cp1002_0242	succinate dehydrogenase subunit
Cp1002_2020	thioredoxin
Cp1002_1708	tim-barrel containing enzyme
Cp1002_1967	udp-galactopyranose mutase
Cp1002_1269	udp-glucose 6-dehydrogenase
Cp1002_1593	udp-glucose 6-dehydrogenase
Cp1002_1393	udp-n-acetylmuramoyl-l-alanyl-d-glutamate synthetase

pathogenesis

CDS	Annotation
Cp1002_0660	two-component system response regulator

primary metabolic process

CDS	Annotation
Cp1002_0519	ribosome-associated inhibitor protein y

response to stress

CDS	Annotation
Cp1002_2043	dna protection during starvation protein
Cp1002_1897	grpe gene product
Cp1002_1898	molecular chaperone
Cp1002_1369	rna-binding heat shock protein
Cp1002_0660	two-component system response regulator
Cp1002_2012	universal stress protein