

source	term name	term ID	n. of term genes	corrected p-value	CUSTER_1	CUSTER_2	CUSTER_3
BP	metabolic process	GO:0008152	4109	1.24e-03			
BP	organic substance metabolic process	GO:0071704	3723	1.27e-05			
BP	carbohydrate derivative metabolic process	GO:1901135	367	1.16e-11			
BP	macromolecule metabolic process	GO:0043170	2922	2.54e-05			
BP	gene expression	GO:0010467	1571	2.54e-14			
BP	organonitrogen compound metabolic process	GO:1901564	651	1.55e-11			
BP	pyridine-containing compound metabolic process	GO:0072524	100	1.69e-02			
BP	purine-containing compound metabolic process	GO:0072521	170	7.79e-19			
BP	amino-acid betaine metabolic process	GO:0006577	3	2.54e-03			
BP	primary metabolic process	GO:0044238	3554	6.69e-07			
BP	protein metabolic process	GO:0019538	1543	6.53e-14			
BP	biosynthetic process	GO:0009058	2100	2.62e-12			
BP	organic substance biosynthetic process	GO:1901576	2070	1.17e-12			
BP	macromolecule biosynthetic process	GO:0009059	1559	3.94e-12			
BP	single-organism process	GO:0044699	3755	3.52e-04			
BP	single-organism metabolic process	GO:0044710	2051	9.14e-09			
BP	small molecule metabolic process	GO:0044281	789	3.18e-15			
BP	single-organism catabolic process	GO:0044712	398	1.15e-02			
BP	small molecule catabolic process	GO:0044282	113	5.16e-04			
BP	glycosyl compound metabolic process	GO:1901657	165	3.61e-19			
BP	oxidation-reduction process	GO:0055114	437	8.27e-17			
BP	cellular process	GO:0009987	4884	8.98e-03			
BP	single-organism cellular process	GO:0044763	3397	2.41e-04			
BP	nucleobase-containing small molecule metabolic process	GO:0050886	279	1.34e-14			
BP	nucleoside metabolic process	GO:0009116	161	1.92e-19			
BP	ribonucleoside metabolic process	GO:0009119	154	1.46e-18			
BP	purine nucleoside metabolic process	GO:0042278	140	1.35e-19			
BP	purine ribonucleoside metabolic process	GO:0046128	140	1.35e-19			
BP	cellular metabolic process	GO:0044237	3696	8.05e-06			
BP	generation of precursor metabolites and energy	GO:0006091	186	3.99e-29			
BP	energy derivation by oxidation of organic compounds	GO:0015980	152	1.79e-27			
BP	cellular respiration	GO:0045333	103	6.28e-28			
BP	aerobic respiration	GO:0009060	78	7.19e-23			
BP	electron transport chain	GO:0022900	32	6.47e-15			
BP	respiratory electron transport chain	GO:0022904	31	3.88e-15			
BP	phosphorus metabolic process	GO:0006793	760	2.74e-07			
BP	organophosphate metabolic process	GO:0019637	417	3.07e-12			
BP	phosphate-containing compound metabolic process	GO:0006796	737	3.50e-06			
BP	nucleoside triphosphate metabolic process	GO:0006753	247	6.11e-16			
BP	nucleoside monophosphate metabolic process	GO:0009123	135	5.38e-20			
BP	ribonucleoside monophosphate metabolic process	GO:0009161	132	3.04e-20			
BP	ribonucleoside monophosphate biosynthetic process	GO:0009156	58	4.72e-02			
BP	purine nucleoside monophosphate metabolic process	GO:0009126	116	1.11e-21			
BP	purine ribonucleoside monophosphate metabolic process	GO:0009127	42	7.09e-03			
BP	purine nucleoside monophosphate biosynthetic process	GO:0009168	42	7.09e-03			
BP	nucleotide metabolic process	GO:0009117	243	4.02e-16			
BP	pyridine nucleotide metabolic process	GO:0019362	85	2.49e-02			
BP	purine nucleotide metabolic process	GO:0006163	139	4.12e-21			
BP	nucleoside triphosphate metabolic process	GO:0009141	70	1.22e-20			
BP	ribonucleoside triphosphate metabolic process	GO:0009199	62	7.38e-22			
BP	purine nucleoside triphosphate metabolic process	GO:0009144	60	3.42e-22			
BP	purine ribonucleoside triphosphate metabolic process	GO:0009205	58	7.54e-22			
BP	nucleoside triphosphate biosynthetic process	GO:0009142	29	7.24e-04			
BP	ribonucleoside triphosphate biosynthetic process	GO:0009201	26	3.61e-04			
BP	purine nucleoside triphosphate biosynthetic process	GO:0009145	22	1.21e-04			
BP	phosphorylation	GO:0016310	338	1.91e-04			
BP	ribose phosphate metabolic process	GO:0019693	168	2.48e-20			
BP	ribonucleotide metabolic process	GO:0009259	148	2.14e-20			
BP	purine ribonucleotide metabolic process	GO:0009150	135	1.90e-21			
BP	ATP metabolic process	GO:0046034	54	1.80e-21			
BP	oxidative phosphorylation	GO:0006119	32	8.51e-17			
BP	ATP synthesis coupled electron transport	GO:0042773	29	1.30e-15			
BP	mitochondrial ATP synthesis coupled electron transport	GO:0042775	29	1.30e-15			
BP	mitochondrial electron transport, succinate to ubiquinol	GO:0006121	6	2.31e-07			
BP	mitochondrial electron transport, ubiquinol to ubiquinol	GO:0006122	11	8.31e-04			
BP	cellular macromolecule metabolic process	GO:0044260	2805	4.52e-05			
BP	cellular protein metabolic process	GO:0044267	1403	5.95e-14			
BP	organic acid metabolic process	GO:0006082	434	1.12e-06			
BP	oxoacid metabolic process	GO:0043436	433	1.07e-06			
BP	carboxylic acid metabolic process	GO:0019752	417	4.82e-07			
BP	tricarboxylic acid metabolic process	GO:0072350	29	1.30e-15			
BP	citrate metabolic process	GO:0006101	29	1.30e-15			
BP	tricarboxylic acid cycle	GO:0006099	29	1.30e-15			
BP	dicarboxylic acid metabolic process	GO:0043648	44	5.49e-04			
BP	glutamate metabolic process	GO:0006536	15	1.94e-02			
BP	monocarboxylic acid metabolic process	GO:0032787	157	5.31e-09			
BP	carnitine metabolic process	GO:0009437	3	2.54e-03			
BP	organic acid catabolic process	GO:0016054	89	4.31e-05			
BP	carboxylic acid catabolic process	GO:0046395	89	4.31e-05			
BP	monocarboxylic acid catabolic process	GO:0072329	30	5.84e-06			
BP	cellular biosynthetic process	GO:0034449	2030	3.87e-13			
BP	cellular macromolecule biosynthetic process	GO:0044645	1546	2.63e-12			
BP	translation	GO:0006212	476	1.97e-38			
BP	cytoplasmic translation	GO:0006414	171	2.86e-54			
BP	translational elongation	GO:0006414	100	1.17e-05			
BP	ribose phosphate biosynthetic process	GO:0046390	76	2.33e-02			
BP	ribonucleotide biosynthetic process	GO:0009260	70	1.35e-02			
BP	purine-containing compound biosynthetic process	GO:0072522	70	1.35e-02			
BP	purine nucleoside biosynthetic process	GO:0042451	48	1.57e-02			
BP	purine ribonucleoside biosynthetic process	GO:0046129	48	1.57e-02			
BP	purine nucleotide biosynthetic process	GO:0006164	60	4.77e-03			
BP	purine ribonucleotide biosynthetic process	GO:0009152	57	3.36e-03			
BP	ATP biosynthetic process	GO:0006754	19	1.77e-03			
BP	hydrogen transport	GO:0006818	68	3.87e-06			
BP	ion transport	GO:0006811	319	2.65e-03			
BP	cation transport	GO:0006812	176	4.59e-03			
BP	monovalent inorganic cation transport	GO:0015672	98	1.41e-04			
BP	proton transport	GO:0015982	67	3.38e-06			
BP	transmembrane transport	GO:0055085	407	5.38e-04			
BP	ion transmembrane transport	GO:0034220	146	7.25e-04			
BP	cation transmembrane transport	GO:0098655	94	9.46e-05			
BP	inorganic ion transmembrane transport	GO:0098660	101	1.59e-05			
BP	inorganic cation transmembrane transport	GO:0098662	88	4.99e-05			
BP	hydrogen ion transmembrane transport	GO:1902600	57	6.36e-07			
BP	energy coupled proton transport, down electrochemical gradient	GO:0015985	17	9.60e-04			
BP	ATP synthesis coupled proton transport	GO:0015986	17	9.60e-04			
BP	lipid catabolic process	GO:0016042	55	9.02e-04			
BP	cellular lipid catabolic process	GO:0044242	40	6.81e-05			
BP	fatty acid metabolic process	GO:0006631	65	2.13e-05			
BP	fatty acid catabolic process	GO:0009062	18	1.13e-04			
BP	glutamate biosynthetic process	GO:0006537	11	4.86e-03			
BP	regulation of translational fidelity	GO:0006450	54	1.65e-02			
BP	ribonucleoprotein complex biogenesis	GO:0022613	230	1.20e-08			
BP	ribosome biogenesis	GO:0042254	147	1.24e-10			
BP	ribosomal small subunit biogenesis	GO:0042274	135	2.02e-02			
BP	nuclear export	GO:0051168	126	9.63e-03			
BP	RNA export from nucleus	GO:0006405	90	3.43e-02			
BP	ncRNA metabolic process	GO:0034660	556	6.00e-03			
BP	rRNA processing	GO:0034470	446	9.94e-04			
BP	rRNA metabolic process	GO:0016072	348	6.72e-06			
BP	rRNA processing	GO:0006364	332	4.18e-06			
BP	rRNA transport	GO:0051029	18	4.48e-08			
BP	rRNA export from nucleus	GO:0006407	18	4.48e-08			
BP	ribosome assembly	GO:0042255	59	1.63e-02			
BP	regulation of peptidase activity	GO:0052547	5	2.49e-02			
BP	regulation of endopeptidase activity	GO:0052548	4	1.01e-02			
BP	negative regulation of peptidase activity	GO:0010466	4	1.01e-02			
BP	negative regulation of endopeptidase activity	GO:0010951	4	1.01e-02			
BP	endonucleolytic cleavage to generate mature 3'-end of SSU-rRNA from SSU ...	GO:0000461	5	1.74e-04			
BP	coenzyme metabolic process	GO:0006732	182	3.95e-02			
source	term name	term ID	n. of term genes	corrected p-value	CUSTER_1	CUSTER_2	CUSTER_3
	Gene Ontology (Cellular component)						
CC	cytochrome complex	GO:0070069	22	5.99e-08			
CC	nucleoid	GO:0009295	25	7.66e-03			
CC	envelope	GO:0031975	552	1.01e-12			
CC	macromolecular complex	GO:0032991	2124	3.91e-09			
CC	membrane-bounded organelle	GO:0043227	4076	2.07e-02			
CC	intracellular membrane-bounded organelle	GO:0043231	4066	1.84e-02			
CC	transporter complex	GO:1990351	27	1.14e-02			
CC	non-membrane-bounded organelle	GO:0043228	1276	2.68e-17			
CC	intracellular non-membrane-bounded organelle	GO:0043232	1276	2.68e-17			
CC	transmembrane transporter complex	GO:1902495	11	7.57e-05			
CC	organelle envelope	GO:0031967	552	1.01e-12			
CC	organelle inner membrane	GO:0019866	254	3.52e-11			
CC	organelle envelope lumen	GO:0031970	66	7.15e-04			
CC	respiratory chain	GO:0070469	32	6.47e-15			
CC	respiratory chain complex II	GO:0045273	6	2.31e-04			
CC	fumarate reductase complex	GO:0045283	5	7.76e-05			
CC	oxidoreductase complex	GO:1990204	36	2.28e-12			
CC	respiratory chain complex III	GO:0045275	10	4.17e-05			
CC	succinate dehydrogenase complex	GO:0045281	6	2.31e-04			
CC	succinate dehydrogenase complex (ubiquinone)	GO:0045257	5	7.76e-05			
CC	proton-transferring two-sector ATPase complex	GO:0016469	32	2.73e-02			
CC	proton-transferring ATP synthase complex	GO:0045259	17	9.60e-04			
CC	proton-transferring ATP synthase complex, catalytic core F(1)	GO:0045261	5	1.37e-02			
CC	cytoplasm	GO:0005737	4072				