

## EASE RESULTS

<b>System</b>	<b>Category</b>	<b>LH</b>	<b>LT</b>	<b>PH</b>	<b>PT</b>	<b>EASE Score</b>	<b>Fisher Exact</b>
cellular_component	cytoplasm	40	44	2145	7038	1.74E-16	5.75E-17
molecular_function	structural molecule activity	23	49	440	8126	5.73E-16	6.31E-17
cellular_component	cytosolic ribosome (sensu Eukarya)	10	44	32	7038	1.23E-13	1.76E-15
biological_process	muscle development	13	46	101	7825	2.21E-13	8.71E-15
cellular_component	muscle fiber	10	44	35	7038	3.06E-13	4.94E-15
biological_process	muscle contraction	12	46	106	7825	1.15E-11	5.37E-13
cellular_component	ribosome	12	44	103	7038	1.49E-11	7.18E-13
molecular_function	structural constituent of ribosome	12	49	110	8126	2.5E-11	1.25E-12
biological_process	protein biosynthesis	16	46	348	7825	3.99E-10	4.88E-11
molecular_function	structural constituent of muscle	8	49	32	8126	4.79E-10	9.06E-12
biological_process	cell motility	14	46	242	7825	5.2E-10	5.01E-11
cellular_component	cytosol	13	44	200	7038	1.41E-09	1.28E-10
biological_process	striated muscle contraction	7	46	28	7825	8.78E-09	1.63E-10
cellular_component	myofibril	7	44	27	7038	9.74E-09	1.83E-10
cellular_component	sarcomere	7	44	27	7038	9.74E-09	1.83E-10
cellular_component	ribonucleoprotein complex	12	44	192	7038	1.26E-08	1.18E-09
cellular_component	actin cytoskeleton	10	44	153	7038	0.000000257	2.31E-08
biological_process	macromolecule biosynthesis	16	46	570	7825	0.000000318	6.46E-08
cellular_component	cytosolic small ribosomal subunit (sensu Eukarya)	5	44	13	7038	0.00000083	9.37E-09
cellular_component	eukaryotic 48S initiation complex	5	44	13	7038	0.00000083	9.37E-09
biological_process	biosynthesis	16	46	678	7825	0.00000292	0.000000707
cellular_component	intracellular	40	44	4121	7038	0.00000343	0.00000219
molecular_function	RNA binding	12	49	344	8126	0.00000368	0.000000613
cellular_component	cytosolic large ribosomal subunit (sensu Eukarya)	5	44	19	7038	0.00000438	8.24E-08
cellular_component	eukaryotic 43S preinitiation complex	5	44	24	7038	0.0000117	0.000000294
cellular_component	large ribosomal subunit	5	44	26	7038	0.0000164	0.000000451
cellular_component	small ribosomal subunit	5	44	26	7038	0.0000164	0.000000451
cellular_component	striated muscle thin filament	4	44	9	7038	0.0000174	0.000000164
cellular_component	muscle myosin	4	44	15	7038	0.0000919	0.00000173
biological_process	regulation of muscle contraction	4	46	16	7825	0.0000945	0.00000181
biological_process	organogenesis	14	46	696	7825	0.0000973	0.0000276
cellular_component	myosin II	4	44	17	7038	0.000136	0.00000298
cellular_component	cytoskeleton	11	44	435	7038	0.000222	0.0000528
biological_process	morphogenesis	14	46	797	7825	0.00038	0.000123
cellular_component	smooth endoplasmic reticulum	3	44	6	7038	0.000539	0.0000045
cellular_component	hemoglobin complex	3	44	7	7038	0.000751	0.00000784
molecular_function	cytoskeletal protein binding	7	49	187	8126	0.000753	0.000116
molecular_function	actin binding	6	49	146	8126	0.00161	0.000225
cellular_component	myosin	4	44	40	7038	0.00179	0.000103
biological_process	protein metabolism	19	46	1635	7825	0.00268	0.00131
biological_process	translational elongation	3	46	15	7825	0.00324	0.0000823
biological_process	translation	5	46	111	7825	0.00365	0.000453
biological_process	development	14	46	1270	7825	0.0231	0.0118
molecular_function	translation factor activity, nucleic acid binding	3	49	68	8126	0.0608	0.00785
molecular_function	translation regulator activity	3	49	69	8126	0.0624	0.00817
molecular_function	structural constituent of cytoskeleton	3	49	75	8126	0.0722	0.0103
molecular_function	calcium ion binding	6	49	384	8126	0.0747	0.0269
cellular_component	cell	42	44	6178	7038	0.0895	0.0816
molecular_function	nucleic acid binding	16	49	1830	8126	0.103	0.067
molecular_function	motor activity	3	49	94	8126	0.106	0.0188
biological_process	physiological process	42	46	6633	7825	0.163	0.15
biological_process	cellular physiological process	21	46	2909	7825	0.195	0.149
molecular_function	binding	32	49	4944	8126	0.354	0.313
molecular_function	metal ion binding	7	49	826	8126	0.361	0.226
molecular_function	molecular_function unknown	5	49	543	8126	0.401	0.228
molecular_function	protein binding	10	49	1375	8126	0.426	0.311
biological_process	biological_process unknown	4	46	500	7825	0.556	0.339

cellular_component	endoplasmic reticulum	<a href="#">3</a>	44	302	7038	0.557	0.292
cellular_component	cellular_component unknown	<a href="#">4</a>	44	532	7038	0.641	0.428
molecular_function	enzyme regulator activity	<a href="#">3</a>	49	380	8126	0.664	0.404
biological_process	metabolism	<a href="#">25</a>	46	4356	7825	0.681	0.631
molecular_function	purine nucleotide binding	<a href="#">4</a>	49	1009	8126	0.948	0.874
molecular_function	nucleotide binding	<a href="#">4</a>	49	1022	8126	0.951	0.88
biological_process	cellular process	<a href="#">21</a>	46	4393	7825	0.958	0.943
molecular_function	ATP binding	<a href="#">3</a>	49	811	8126	0.96	0.88
molecular_function	adenyl nucleotide binding	<a href="#">3</a>	49	819	8126	0.961	0.884
molecular_function	transporter activity	<a href="#">4</a>	49	1098	8126	0.966	0.913
biological_process	transport	<a href="#">4</a>	46	1198	7825	0.977	0.937
biological_process	response to stimulus	<a href="#">4</a>	46	1230	7825	0.98	0.945
molecular_function	hydrolase activity	<a href="#">4</a>	49	1256	8126	0.985	0.957
biological_process	response to external stimulus	<a href="#">3</a>	46	1033	7825	0.987	0.953
biological_process	organismal physiological process	<a href="#">3</a>	46	1211	7825	0.995	0.981
biological_process	cell growth and/or maintenance	<a href="#">8</a>	46	2478	7825	0.996	0.991
molecular_function	catalytic activity	<a href="#">9</a>	49	2935	8126	0.999	0.998
cellular_component	integral to membrane	<a href="#">3</a>	44	2126	7038	1	1
cellular_component	nucleus	<a href="#">3</a>	44	2079	7038	1	1
cellular_component	membrane	<a href="#">6</a>	44	2745	7038	1	1