

New [Enhancer-Gene Map](#) [PANTHER16.0 Released.](#)

Analysis Summary: Please report in publication [?](#)

Analysis Type: PANTHER Overrepresentation Test (Released 20210224)	
Annotation Version and Release Date: PANTHER version 16.0 Released 2020-12-01	
Analyzed List:	DE50KB.txt (Homo sapiens) Change
Reference List:	Homo sapiens (all genes in database) Change
Annotation Data Set:	PANTHER GO-Slim Biological Process ?
Test Type:	<input checked="" type="radio"/> Fisher's Exact <input type="radio"/> Binomial
Correction:	<input checked="" type="radio"/> Calculate False Discovery Rate <input type="radio"/> Use the Bonferroni correction for multiple testing ? <input type="radio"/> No correction

Results [?](#)

	Reference list	DE50KB.txt
Uniquely Mapped IDs:	20595 out of 20595	216 out of 216
Unmapped IDs:	0	7
Multiple mapping information:	0	0

Export [Table](#) [XML with user input ids](#) [JSON with user input ids](#) View: -- Please select a chart to display -- [v](#)

Displaying only results for FDR P < 0.05, [click here to display all results](#)

	Homo sapiens (REF)	DE50KB.txt v Hierarchy NEW! ?					
PANTHER GO-Slim Biological Process	#	#	expected	Fold Enrichment	+/-	raw P value	FDR
attachment of spindle microtubules to kinetochore	11	3	.12	26.00	+	3.69E-04	2.98E-02
regulation of cell shape	27	4	.28	14.13	+	2.85E-04	2.49E-02
↳ regulation of cell morphogenesis	84	7	.88	7.95	+	4.55E-05	1.42E-02
↳ regulation of anatomical structure morphogenesis	117	8	1.23	6.52	+	4.92E-05	1.34E-02
regulation of stress-activated MAPK cascade	32	4	.34	11.92	+	5.12E-04	3.73E-02
↳ regulation of stress-activated protein kinase signaling cascade	32	4	.34	11.92	+	5.12E-04	3.61E-02
↳ regulation of phosphate metabolic process	419	13	4.39	2.96	+	6.12E-04	4.05E-02
↳ regulation of phosphorus metabolic process	419	13	4.39	2.96	+	6.12E-04	4.17E-02
regulation of axonogenesis	49	6	.51	11.68	+	2.21E-05	1.21E-02
↳ regulation of neuron projection development	74	6	.78	7.73	+	1.85E-04	1.83E-02
↳ regulation of plasma membrane bounded cell projection organization	89	7	.93	7.50	+	6.42E-05	1.40E-02
↳ regulation of cell projection organization	91	7	.95	7.33	+	7.32E-05	1.45E-02
↳ regulation of cellular component organization	410	16	4.30	3.72	+	1.04E-05	7.58E-03
↳ regulation of neuron differentiation	85	6	.89	6.73	+	3.73E-04	2.91E-02
↳ regulation of cell morphogenesis involved in differentiation	65	6	.68	8.80	+	9.52E-05	1.73E-02
stress-activated MAPK cascade	36	4	.38	10.59	+	7.70E-04	4.80E-02
positive regulation of cellular component organization	139	10	1.46	6.86	+	3.67E-06	8.00E-03
↳ positive regulation of cellular process	1295	29	13.58	2.14	+	1.23E-04	1.80E-02
↳ positive regulation of biological process	1455	31	15.26	2.03	+	2.52E-04	2.39E-02
axon guidance	104	7	1.09	6.42	+	1.60E-04	2.06E-02
↳ cellular component organization	2624	49	27.52	1.78	+	5.63E-05	1.36E-02
↳ cellular component organization or biogenesis	2750	49	28.84	1.70	+	1.84E-04	1.92E-02

↳ cell morphogenesis	241	10	2.53	3.96	+	3.07E-04	2.58E-02
↳ cell morphogenesis involved in differentiation	178	8	1.87	4.29	+	7.45E-04	4.78E-02
↳ neuron projection guidance	104	7	1.09	6.42	+	1.60E-04	1.95E-02
↳ locomotion	384	13	4.03	3.23	+	2.76E-04	2.51E-02
↳ movement of cell or subcellular component	595	19	6.24	3.04	+	2.37E-05	1.04E-02
tissue development	157	10	1.65	6.07	+	1.01E-05	1.10E-02
cell migration	263	12	2.76	4.35	+	3.23E-05	1.18E-02
↳ cell motility	304	12	3.19	3.76	+	1.22E-04	1.90E-02
↳ localization of cell	304	12	3.19	3.76	+	1.22E-04	2.05E-02
negative regulation of response to stimulus	256	10	2.68	3.72	+	4.85E-04	3.65E-02
cell adhesion	366	13	3.84	3.39	+	1.76E-04	2.02E-02
↳ biological adhesion	366	13	3.84	3.39	+	1.76E-04	1.92E-02
regulation of molecular function	806	21	8.45	2.48	+	1.51E-04	2.06E-02