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### PANTHER GENE INFORMATION ②

Genes and orthologs ♦

Go

Gene ID: MGI:1349462

Protein ID: O9DBK7

......

Gene Name: MCG18845, isoform CRA\_d

Gene Symbol(s): Uba7

Organism: Mus musculus

Alternate Ids: NP 076227(refSeq) AL731808(SwissProt ID)

Q9DBK7(Alias Gene Symbol) BAB23650(SwissProt accession)

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# PANTHER CLASSIFICATION

PANTHER Family: UBIQUITIN-ACTIVATING ENZYME E1 (PTHR10953)

PANTHER Subfamily: UBIQUITIN-LIKE MODIFIER-ACTIVATING ENZYME 7 (PTHR10953:SF170)



Tree MSA Evolutionary History

PANTHER GO-slim Molecular Function: catalytic activity

ubiquitin-protein ligase activity

PANTHER GO-slim Biological Process: metabolic process

catabolic process

cellular process

primary metabolic process

protein metabolic process

cellular protein modification process

proteolysis



PANTHER GO-slim Cellular Component:

cell part

intracellular

**c**ytoplasm

**└** cytosol

<u>organelle</u>

**└** <u>nucleus</u>

PANTHER protein class: <u>ligase</u>

transfer/carrier protein

Pathway Categories: <u>Ubiquitin proteasome pathway</u>

Ubiquitin proteasome pathway

### GENE ONTOLOGY DATABASE ANNOTATIONS ② c

GO MF Complete: ubiquitin-protein transferase activity, ISG15 activating enzyme activity, ubiquitin activating enzyme activity

GO BP Complete: ISG15-protein conjugation, cellular protein modification process, modification-dependent protein catabolic

process

GO CC Complete: nucleus, cytosol

## **ORTHOLOGS** ③

ID	Organism	Type 🕐
HUMAN HGNC=12471 UniProtKB=P41226	Homo sapiens	LDO
PANTR Ensembl=ENSPTRG00000014936 UniProtKB=H2QMM5	Pan troglodytes	LDO
MACMU Ensembl=ENSMMUG00000020980 UniProtKB=F7HMU2	Macaca mulatta	LDO
RAT RGD=1308323 UniProtKB=A0A0G2K735	Rattus norvegicus	LDO
BOVIN Ensembl=ENSBTAG00000012335 UniProtKB=Q5GF34	Bos taurus	LDO
PIG Ensembl=ENSSSCG00000011393 UniProtKB=F1SPR0	Sus scrofa	LDO
HORSE Ensembl=ENSECAG00000019670 UniProtKB=F7CFS8	Equus caballus	LDO
FELCA Ensembl=ENSFCAG00000010680 UniProtKB=M3WDQ3	Felis catus	LDO
CANFA Ensembl=ENSCAFG00000011164 UniProtKB=E2QYA0	Canis familiaris	LDO
MONDO Ensembl=ENSMODG00000012394 UniProtKB=F6PN80	Monodelphis domestica	0
MONDO Ensembl=ENSMODG00000010677 UniProtKB=F7C1J2	Monodelphis domestica	0
ORNAN Ensembl=ENSOANG00000012650 UniProtKB=F7BTM7	Ornithorhynchus anatinus	0
CHICK Ensembl=ENSGALG00000002521 UniProtKB=F1P543	Gallus gallus	0
ANOCA Ensembl=ENSACAG00000007320 UniProtKB=G1KGJ3	Anolis carolinensis	0

FANTHER - Gene informa	uon	
ANOCA Ensembl=ENSACAG00000005270 UniProtKB=G1KE14	Anolis carolinensis	0
XENTR Gene=Xenbase=XB-GENE-5874064 UniProtKB=F6UG64	Xenopus tropicalis	0
TAKRU Ensembl=ENSTRUG00000009466 UniProtKB=H2TGI0	Takifugu rubripes	0
DANRE ZFIN=ZDB-GENE-121120-4 UniProtKB=E7EYF3	Danio rerio	0
TAKRU Ensembl=ENSTRUG00000010472 UniProtKB=H2TNX7	Takifugu rubripes	0
DANRE ZFIN=ZDB-GENE-040426-2009 UniProtKB=F1RCA1	Danio rerio	0
BRAFL Gene=BRAFLDRAFT 255626 UniProtKB=C3ZZI8	Branchiostoma floridae	0
CIOIN Ensembl=ENSCING00000007869 UniProtKB=F6U4V1	Ciona intestinalis	0
STRPU EnsemblGenome=SPU 021701 UniProtKB=W4Z0R6	Strongylocentrotus purpuratus	0
CAEEL WormBase=WBGene00006699 UniProtKB=Q27481	Caenorhabditis elegans	0
CAEBR Gene=CBG03440 UniProtKB=A8WV26	Caenorhabditis briggsae	0
PRIPA Gene=PPA11652 UniProtKB=H3EPF1	Pristionchus pacificus	0
DROME FlyBase=FBgn0023143 UniProtKB=Q8T0L3	Drosophila melanogaster	0
DAPPU EnsemblGenome=DAPPUDRAFT 186898 UniProtKB=E9FRU9	Daphnia pulex	0
IXOSC EnsemblGenome=ISCW019123 UniProtKB=B7PR84	Ixodes scapularis	0
SCHMA EnsemblGenome=Smp 162630 UniProtKB=G4VH12	Schistosoma mansoni	0
NEMVE EnsemblGenome=NEMVEDRAFT_v1g129964 UniProtKB=A7SSG6	Nematostella vectensis	0
NEMVE EnsemblGenome=NEMVEDRAFT_v1g69055 UniProtKB=A7T5P1	Nematostella vectensis	0
TRIAD EnsemblGenome=TriadG25768 UniProtKB=B3RWM5	Trichoplax adhaerens	0
MONBE Gene=33365 UniProtKB=A9V503	Monosiga brevicollis	0
YEAST SGD=S000001693 UniProtKB=P22515	Saccharomyces cerevisiae	0
ASHGO EnsemblGenome=AGOS AFR433C UniProtKB=Q752Y8	Ashbya gossypii	0
CANAL Gene=CGD=CAL0005518 UniProtKB=Q5A2X3	Candida albicans	0
YARLI EnsemblGenome=YALIO E06017q UniProtKB=Q6C6V1	Yarrowia lipolytica	0
EMENI EnsemblGenome=CADANIAG00008853 UniProtKB=C8VMA9	Emericella nidulans	0
NEUCR EnsemblGenome=EFNCRG00000005233 UniProtKB=Q7RWR0	Neurospora crassa	0
SCLS1 EnsemblGenome=SS1G 08259 UniProtKB=A7ESF4	Sclerotinia sclerotiorum	0
PHANO EnsemblGenome=SNOG 08557 UniProtKB=Q0UI57	Phaeosphaeria nodorum	0
SCHPO PomBase=SPBC1604.21c UniProtKB=094609	Schizosaccharomyces pombe	0
CRYNJ EnsemblGenome=CNA01230 UniProtKB=Q5KPX3	Cryptococcus neoformans	0
USTMA Gene=UMAG 06188 UniProtKB=A0A0D1CFJ5	Ustilago maydis	0
PUCGT EnsemblGenome=PGTG 07941 UniProtKB=E3KBL0	Puccinia graminis	0
BATDJ Gene=BATDEDRAFT 19117 UniProtKB=F4NY58	Batrachochytrium dendrobatidis	0
ENTHI EnsemblGenome=EHI 038690 UniProtKB=B1N360	Entamoeba histolytica	0
ENTHI EnsemblGenome=EHI 020270 UniProtKB=C4M7T9	Entamoeba histolytica	0
DICDI dictyBase=DDB G0270272 UniProtKB=Q55C16	Dictyostelium discoideum	0
DICPU Gene=DICPUDRAFT 96719 UniProtKB=F0ZAP3	Dictyostelium purpureum	0
PLAF7 EnsemblGenome=PF13 0264 UniProtKB=C0H5H9	Plasmodium falciparum	0
PLAF7 EnsemblGenome=PF13 0182 UniProtKB=08IDZ6	Plasmodium falciparum	0

PLAF7 EnsemblGenome=PF11 0457 UniProtKB=Q8IHS2	Plasmodium falciparum	0
PLAF7 EnsemblGenome=PFL1245w UniProtKB=Q8I5F9	Plasmodium falciparum	0
TETTS EnsemblGenome=TTHERM 00519760 UniProtKB=I7M167	Tetrahymena thermophila	0
TETTS EnsemblGenome=TTHERM 00450930 UniProtKB=Q238S6	Tetrahymena thermophila	0
TETTS EnsemblGenome=TTHERM 00481290 UniProtKB=I7M1M7	Tetrahymena thermophila	0
TETTS EnsemblGenome=TTHERM 00997780 UniProtKB=Q23QY3	Tetrahymena thermophila	0
TETTS EnsemblGenome=TTHERM 00149190 UniProtKB=I7ML74	Tetrahymena thermophila	0
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TETTS EnsemblGenome=TTHERM 00241900 UniProtKB=I7M407	Tetrahymena thermophila	0
THAPS Gene=Thaps262047 UniProtKB=B8C120	Thalassiosira pseudonana	0
THAPS Gene=Thaps268541 UniProtKB=B8BYU7	Thalassiosira pseudonana	0
PHYIT EnsemblGenome=PITG 07036 UniProtKB=D0N735	Phytophthora infestans	0
PHYIT EnsemblGenome=PITG 05690 UniProtKB=D0N3G3	Phytophthora infestans	0
<u>LEIMA EnsemblGenome=LmjF.35.3060 UniProtKB=E9AFD0</u>	Leishmania major	0
TRYB2 Gene=Tb09.211.3610 UniProtKB=Q38DE8	Trypanosoma brucei	0
LEIMA EnsemblGenome=LmjF.23.0550 UniProtKB=Q9NF77	Leishmania major	0
TRYB2 Gene=Tb927.8.2640 UniProtKB=Q57XC5	Trypanosoma brucei	0
GIAIC EnsemblGenome=GL50803 10661 UniProtKB=A8BBP6	Giardia intestinalis	0
TRIVA Gene=TVAG 300590 UniProtKB=A2EP39	Trichomonas vaginalis	0
TRIVA Gene=TVAG 369470 UniProtKB=A2G7V0	Trichomonas vaginalis	0
TRIVA Gene=TVAG 006110 UniProtKB=A2E718	Trichomonas vaginalis	0
TRIVA Gene=TVAG 446890 UniProtKB=A2E8P8	Trichomonas vaginalis	0
TRIVA Gene=TVAG 455710 UniProtKB=A2G060	Trichomonas vaginalis	0
CHLRE EnsemblGenome=CHLREDRAFT 170220 UniProtKB=A8IPB5	Chlamydomonas reinhardtii	0
CHLRE EnsemblGenome=CHLREDRAFT 191903 UniProtKB=A8J1C1	Chlamydomonas reinhardtii	0
SORBI EnsemblGenome=Sb01q038300 UniProtKB=C5WNH5	Sorghum bicolor	0
ORYSJ Gene=LOC Os03q18380 UniProtKB=Q10MU6	Oryza sativa	0
BRADI EnsemblGenome=BRADI1G65330 UniProtKB=I1H6H7	Brachypodium distachyon	0
SORBI EnsemblGenome=Sb02q043880 UniProtKB=C5X6F4	Sorghum bicolor	0
ORYSJ Gene=Os07q0692900 UniProtKB=Q84NQ2	Oryza sativa	0
BRADI EnsemblGenome=BRADI1G16680 UniProtKB=I1GQV9	Brachypodium distachyon	0
SOYBN EnsemblGenome=GLYMA14G37610 UniProtKB=I1MBE2	Glycine max	0
SOYBN EnsemblGenome=GLYMA02G39495 UniProtKB=K7KA83	Glycine max	0
SORBI EnsemblGenome=Sb05g000520 UniProtKB=C5Y2Z7	Sorghum bicolor	0
SORBI EnsemblGenome=Sb08g000540 UniProtKB=C5YQ24	Sorghum bicolor	0
ORYSJ EnsemblGenome=OS11G0106400 UniProtKB=Q2RBM4	Oryza sativa	0
BRADI EnsemblGenome=BRADI4G44880 UniProtKB=I1IV69	Brachypodium distachyon	0

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BRADI EnsemblGenome=BRADI4G26790 UniProtKB=I1INX4	Brachypodium distachyon	0
SOLLC EnsemblGenome=Solyc06g007320.2 UniProtKB=K4C3B5	Solanum lycopersicum	0
SOLLC EnsemblGenome=Solyc09g018450.2 UniProtKB=K4CSA9	Solanum lycopersicum	0
VITVI EnsemblGenome=VIT 08s0058g00320 UniProtKB=F6GXU4	Vitis vinifera	0
VITVI EnsemblGenome=VIT 06s0004g07060 UniProtKB=F6GUM1	Vitis vinifera	0
ARATH TAIR=AT2G30110 UniProtKB=P93028	Arabidopsis thaliana	0
ARATH TAIR=AT5G06460 UniProtKB=P92974	Arabidopsis thaliana	0
SOYBN EnsemblGenome=GLYMA11G29302 UniProtKB=K7LR00	Glycine max	0
SOYBN EnsemblGenome=GLYMA18G06620 UniProtKB=I1MZW3	Glycine max	0
POPTR EnsemblGenome=POPTR 0009s07950 UniProtKB=B9HNB1	Populus trichocarpa	0
POPTR EnsemblGenome=POPTR 0001s28750 UniProtKB=B9GGR5	Populus trichocarpa	0
POPTR EnsemblGenome=POPTR 0009s07960 UniProtKB=B9HNB0	Populus trichocarpa	0
PHYPA Gene=PHYPADRAFT 139758 UniProtKB=A9T3V0	Physcomitrella patens	0
PHYPA Gene=PHYPADRAFT 150825 UniProtKB=A9TU56	Physcomitrella patens	0
PHYPA Gene=PHYPADRAFT 129081 UniProtKB=A9SFQ4	Physcomitrella patens	0
PHYPA Gene=PHYPADRAFT 174245 UniProtKB=A9REZ6	Physcomitrella patens	0
KORCO EnsemblGenome=Kcr 0737 UniProtKB=B1L4V7	Korarchaeum cryptofilum	0
SULSO EnsemblGenome=SS00298 UniProtKB=Q980J4	Sulfolobus solfataricus	0
PYRAE EnsemblGenome=PAE1056 UniProtKB=Q8ZXW7	Pyrobaculum aerophilum	0
METAC EnsemblGenome=MA 0255 UniProtKB=Q8TU19	Methanosarcina acetivorans	0
HALSA EnsemblGenome=VNG 0084G UniProtKB=Q9HST5	Halobacterium salinarum	0
PYRKO EnsemblGenome=TK2117 UniProtKB=Q5JEX2	Pyrococcus kodakaraensis	0
CLOBH EnsemblGenome=CLC 1879 UniProtKB=A5I358	Clostridium botulinum	0
STAA8 EnsemblGenome=SAOUHSC 02545 UniProtKB=Q2FVX7	Staphylococcus aureus	0
LISMO Gene=CAC99127 UniProtKB=Q8Y868	Listeria monocytogenes	0
BACSU EnsemblGenome=BSU14270 UniProtKB=O31702	Bacillus subtilis	0
BACSU EnsemblGenome=BSU11700 UniProtKB=O31619	Bacillus subtilis	0
BACCR EnsemblGenome=BC 4723 UniProtKB=Q816U3	Bacillus cereus	0
BACCR EnsemblGenome=BC 2124 UniProtKB=Q81E67	Bacillus cereus	0
BACCR EnsemblGenome=BC 0750 UniProtKB=Q81HQ4	Bacillus cereus	0
STRCO Gene=CAC01308 UniProtKB=Q9FCL0	Streptomyces coelicolor	0
MYCTU EnsemblGenome=P425 03247 UniProtKB=L7N674	Mycobacterium tuberculosis	0
MYCTU EnsemblGenome=Rv3116 UniProtKB=L7N674	Mycobacterium tuberculosis	0
MYCTU EnsemblGenome=RVBD_3116 UniProtKB=L7N674	Mycobacterium tuberculosis	0
MYCTU EnsemblGenome=Rv3206c UniProtKB=P9WMN7	Mycobacterium tuberculosis	0
DEIRA EnsemblGenome=DR 2269 UniProtKB=Q9RS58	Deinococcus radiodurans	0
CHLAA EnsemblGenome=Caur 3492 UniProtKB=A9W9Z4	Chloroflexus aurantiacus	0
GLOVI Gene=BAC91353 UniProtKB=Q7NFW2	Gloeobacter violaceus	0
SYNY3 Gene=BAD02110 UniProtKB=Q6YRV1	Synechocystis	0
	,	

SYNY3 Gene=BAA18438 UniProtKB=P74344	Synechocystis	0
BACTN EnsemblGenome=BT_0648 UniProtKB=Q8AA17	Bacteroides thetaiotaomicron	0
AQUAE EnsemblGenome=aq 1329 UniProtKB=067348	Aquifex aeolicus	0
RHOBA EnsemblGenome=RB12145 UniProtKB=Q7UJ43	Rhodopirellula baltica	0
THEYD EnsemblGenome=THEYE A1987 UniProtKB=B5YIE5	Thermodesulfovibrio yellowstoni	0
GEOSL EnsemblGenome=GSU0654 UniProtKB=Q74FF5	Geobacter sulfurreducens	0
GEOSL EnsemblGenome=GSU0907 UniProtKB=Q74EQ5	Geobacter sulfurreducens	0
GEOSL EnsemblGenome=GSU1350 UniProtKB=Q74DG6	Geobacter sulfurreducens	0
BRAJA Gene=BAC46030 UniProtKB=Q89WC6	Bradyrhizobium japonicum	0
SHEON EnsemblGenome=SO 2443 UniProtKB=Q8EED9	Shewanella oneidensis	0
VIBCH EnsemblGenome=VC 0063 UniProtKB=Q9KVS6	Vibrio cholerae	0
SALTY EnsemblGenome=STM4162 UniProtKB=Q9L9I9	Salmonella typhimurium	0
YERPE EnsemblGenome=y0489 UniProtKB=Q7CKT8	Yersinia pestis	0
YERPE EnsemblGenome=YP 3104 UniProtKB=Q7CKT8	Yersinia pestis	0
YERPE EnsemblGenome=DJ56 3464 UniProtKB=Q7CKT8	Yersinia pestis	0
ECOLI EcoGene=EG11587 UniProtKB=P30138	Escherichia coli	0
COXBU EnsemblGenome=CBU 0876 UniProtKB=Q83D65	Coxiella burnetii	0
HAEIN EnsemblGenome=HI 1449 UniProtKB=P45211	Haemophilus influenzae	0
SHEON EnsemblGenome=SO 0137 UniProtKB=Q8EKF6	Shewanella oneidensis	0
VIBCH EnsemblGenome=VC A0618 UniProtKB=Q9KLX3	Vibrio cholerae	0
XANCP EnsemblGenome=XCC1989 UniProtKB=Q8P977	Xanthomonas campestris	0
PSEAE EnsemblGenome=PA4663 UniProtKB=Q9HVC9	Pseudomonas aeruginosa	0
PSEAE EnsemblGenome=PA2103 UniProtKB=Q9I212	Pseudomonas aeruginosa	0
SALTY EnsemblGenome=STM0845 UniProtKB=Q56067	Salmonella typhimurium	0
YERPE Gene=YPO1494 UniProtKB=Q0WGS8	Yersinia pestis	0
ECOLI EcoGene=EG10154 UniProtKB=P12282	Escherichia coli	Ο

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