

Controlled vocabularies of UniProtKB/Swiss-Prot

Controlled vocabularies describe a given concept using a single term, thereby increasing the effectiveness of database searches and enhancing the knowledgebase consistency.

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ID KPB_MOUSE STANDARD; PRT; 1085 AA.
AC Q7TSH2;
DT 04-JAN-2005, integrated into UniProtKB/Swiss-Prot.
DT 01-OCT-2003, sequence version 1.
DT 27-JUN-2006, entry version 23.
DE Phosphorylase b kinase regulatory subunit beta (phosphorylase kinase
DE subunit beta).
GN Name=Phkb;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Murioidea; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RC STRAIN=C57BL/6; TISSUE=Brain;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Berger J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko V., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalish D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -!- FUNCTION: Phosphorylase b kinase catalyzes the phosphorylation of
CC serine in certain substrates, including troponin I. The beta chain
CC acts as a regulatory unit and modulates the activity of the
CC holoenzyme in response to phosphorylation (By similarity).
CC -!- ENZYME REGULATION: By phosphorylation of various serine residues
CC (By similarity).
CC -!- PATHWAY: Glycogen metabolism.
CC -!- SUBUNIT: Polymer of 16 chains, four each of alpha, beta, gamma,
CC and delta. Alpha and beta are regulatory chains, gamma is the
CC catalytic chain, and delta is calmodulin (By similarity).
CC -!- SUBCELLULAR LOCATION: Cell membrane; lipid-anchor; cytoplasmic
CC side (Potential).
CC -!- SIMILARITY: Belongs to the phosphorylase b kinase regulatory chain
CC family.
DR EMBL: BC053105; AAH53105.1; -. mRNA.
DR UniGene: Mm.237296; -.
DR Ensembl: ENSMUSG00000036879; Mus musculus.
DR MGI: MGI:97578; Phkb.
DR InterPro: IPR008928; 6hp_glycosidase.
DR InterPro: IPR008734; PHK_AB.
DR PANTHER: PTHR10749; PHK_AB; 1.
DR Pfam: PF05682; PHK_AB; 1.
KW Calmodulin-binding; Carbohydrate metabolism; Glycogen metabolism;
KW Lipoprotein; Membrane; Phosphorylation; Prenylation.
FT CHAIN 1 1085 Phosphorylase b kinase beta regulatory
FT chain.
FT /FTID=PR0_0000057737.
FT REGION 760 787 Calmodulin-binding (Potential).
FT REGION 912 943 Calmodulin-binding (Potential).
FT MOD_RES 19 19 Phosphoserine (by PKA) (By similarity).
FT MOD_RES 693 693 Phosphoserine (by PKA) (By similarity).
FT LIPID 1082 1082 S-farnesyl cysteine (By similarity).
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SQ ##### INTERNAL SECTION #####
SEQUENCE 1085 AA; 123889 MW; 8EC52645AD89DF5 CRC64;
MANSPDAF YEPLEKSKINLP RPDNETLWDK LDHYVTRVKS TMLVGSPTT
GLPPTKTCGG EEKSKVHSEL YCAAGAWALA LAYRRIDDDK GRTHLEHSA IKCMRGILYC
YMRQADKQV QKQDPRTTQ LHSVFSVHTG DELLSYEEVG HLQINAVSLF LLYLVEMISS
GLQIYNTDE VSFQNLVFC VERRYVPDF GWERGSKYN NGSTLEHSS VGLAKAALEA
INGNFLGNQ GCSWSVIFVD LDAHNRQRT LCSSLPRES SHNTDAALLP CTSYPAFALD
DEALFQTLQ KVIRKLKGY GFKRFLRDYG RTPLEDPNRR YYPKAELKF DGIECEFPFIF
FLYMIDGVF RGNLEQVKY QDLTLPLHQ TTEGYVPVVPK YVYPADDFE CEKRNPGSQK
RFPNSCGRDG KFLFWGQALY IIAKLLADEL ISPKIDDPVQ RFPVLQQRN VSMRYSNQG
LEMDVVHVA LVAESQRLQV FLNTYGIQTQ TPQQVEPIQI RPQDELVKAY FHGLNEKLG
LSGRPRTIC LGRTVCYPI IFDLSDYFMS QPVLLLDIOI KNALQFEKQY
WKMGRPLFL VLFREDNIG SRFNPLDML AAFKGIIGG VKVVDRLQI LTSGAVEQL
DFLRISDEK LPEKFSFEL EFPKHSKVR QSSADAPAE QHEPGITITE WKNKSTHEIL
QKLNDCCLA QGTTLLGLL KREGPNFTM EGTVDHIER VYRAGSKKL WSVVRAASL
LNKVDLSLAP SITNVLQVK QVTLGAFGE EEVSNPLSP VRIKNIYYK ONTHDERAEV
IQQELVIHIG WIISNPELF SGMKLKRIWQ ITHAMEYELQ VRRGDKPAVD LYQLSPSEVK
QLLLDILQO QSGRCWLNRN QIDGSLNRT PEYDVRWQI LERTNGIVV AGKHLPPQPT
LSDMTYEMN FLSVLDELML NIDQPKYKQI IVELLMVSI VLERNPELF QQKVOLDRLV
KEAFHEKQD ESKRLKIEQ DMFTSYNPT PLKGRGTCY SLTVVMNSLL EGKVPKNSD
SCLVS
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The recommended name (RN), here phosphorylase b kinase regulatory subunit beta, follows, as much as possible, our guidelines for naming proteins described in

nameprot.txt

speclist.txt

lists the organism identification codes (Code, Taxon Node, Official scientific name, Common name and Synonym) as in the NCBI database.

Strain names found in the RC line topic 'STRAIN' are listed in

strains.txt

tisslist.txt

lists the tissue names found in the RC line topic 'TISSUE'.

Plasmid names that are used in the database in the context of the OG and RC lines are listed in.

plasmid.txt

The list of the journal abbreviations currently in use together with the ISSN, CODEN number, publishers and journal home page web addresses is provided in

jourlist.txt

The CC-Pathway lines are indexed in

pathway.txt

A document describing the subcellular localizations will soon be available:

subcell.txt

The KW lines provide a summary of the content of the entry. All the keywords and a definition of their usage in the database are listed in

keywlist.txt

similar.txt

is an index of the CC-Similarity lines, which are of two types:
- Belongs to the [protein family name] family.
- Contains n [name] domains.

The controlled vocabulary for the post-translational modifications described in the FT lines is found in

ptmlist.txt

These documents are available at:

<http://www.expasy.org/sprot/sp-docu.html>

Together with many other useful files such as

Nomenclature of allergens and list of entries: **allergen.txt**

Nomenclature of blood group antigens and list of entries: **bloodgrp.txt**

CD nomenclature of surface proteins of human leucocytes and list of entries: **cdlist.txt**

Classification of glycosyl hydrolase families and list of entries: **glycosid.txt**

Nomenclature of vertebrate homeotic Hox proteins and list of entries: **hoxlist.txt**

Classification of metalloproteins and list of entries: **metallo.txt**

List of publications dealing with protein nomenclature and links to specialized websites: **nomlist.txt**

Classification of peptidase families and list of entries: **peptidas.txt**

Nomenclature of plastid-encoded proteins: **plastid.txt**

Nomenclature of scorpion potassium channel toxins and list of entries: **scorptox.txt**