

Product datasheet for **TP302062M**

PEX5 (NM_000319) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human peroxisomal biogenesis factor 5 (PEX5), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202062 protein sequence Red =Cloning site Green =Tags(s)

MAMRELVEAECGGANPLMKLAGHFTQDKALRQEGLRPGPWPPGAPASEAASKPLGVASEDELVAEFLQDQ
 NAPLVSRA PQTFKMDLLAEMQQIEQSNFRQAPQRAPGVADLALSENWAQEFLLAAGDAVDVTQDYNEDW
 SQEFISEVTDPLSVSPARWAEYEQSEEKWLGEPEGTATDRWYDEYHPEEDLQHTASDFVAKVDDPKL
 ANSEFLKFVRQIGEGQVSLESGAGSGRAQAEQWAAEFIQQGTSDAWVDQFTRPVNTSALDMEFERAKSA
 IELQAELEEMAKRDAEAHPWLSYDDLTSATYDKGYQFEEENPLRDHPQPFEGLRRLQEGDLPNAVLLF
 EAAVQQDPKHMEAWQYLGTQAENEQELLAISALRRCLELKPNDQTALMALAVSFTNESLQRQACETLRD
 WLRYTPAYAHLVTPAEEGAGGAGLGP SKRILGSLSDSLFLEVKELFLAAVRLDPTSIDPDVQCGLGVLF
 NLSGEYDKAVDCFTAALSVRPNDYLLWNKLGATLANGNQSEEVAAYRRALQLPGYIRSRYNL GISCIN
 LGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLALSMLGQSDAYGAADARDLSTLLTMFGLP
 Q

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	69.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000310](#)

Locus ID: 5830

UniProt ID: [P50542](#), [A0A0S2Z480](#)

RefSeq Size: 3190

Cytogenetics: 12p13.31

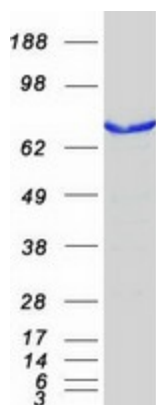
RefSeq ORF: 1893

Synonyms: PBD2A; PBD2B; PTS1-BP; PTS1R; PXR1; RCDP5

Summary: The product of this gene binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import. Peroxisins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene are a cause of neonatal adrenoleukodystrophy (NALD), a cause of Zellweger syndrome (ZWS) as well as may be a cause of infantile Refsum disease (IRD). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified PEX5 protein (Cat# [TP302062]). The protein was produced from HEK293T cells transfected with PEX5 cDNA clone (Cat# [RC202062]) using MegaTran 2.0 (Cat# [TT210002]).