

Product datasheet for **MC206816**

Entpd5 (BC015247) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Entpd5 (BC015247) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Entpd5
Synonyms:	mNTPase, NTPDase-5, NTPDase5, ER-UDPase, Pcph
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC015247
 GGCAGGCAGGAGCTGCTTTTTAAATTGGCCTGCGTGACCCGCCACTTGGTGTAAGAAGAACCGGCCA
 AAGGGAGGGCCTGAAGGACCTCCACAGGAGTGTGAGCAGCACTGCTTCAGCAACAAGCCTCAGGTCCAC
 ATCTTGGGAAGAATATGGCCACTTCTGGGGGGCTGTCTTCATGCTGATCATAGCCTGCGTTGGCAGCAC
 TGTCTTACAGAGAACAGCAGACCTGGTTTGAAGGTGCTTCTGTCTTCCATGTGCCCAATTAATGTC
 AGTGCCGGCACCTTTATGGAATTATGTTTGTATGCGGGCAGCACTGGAACCTCGGATTCATGTTACACTT
 TTGTGCAGAAAACAGCAGGACAGCTCCCCTTCTGGAAGGTGAAATTTTGGATTCTGTGAAGCCGGGACT
 TTCTGCTTTTGTGGATCAGCCCAACAGGGTGTGAGACTGTCCAGGAGCTCTTGGAGGTGGCCAAAGAC
 TCGATCCCCAGAAGCCACTGGGAAAGGACCCCGTGGTCTGAAAGCAACGGCCGGACTCCGTTTGTCTGC
 CTGAGCAGAAAGCCAGGCTCTGCTCTTGGAGGTAGAGGAGATCTTCAAGAATTCACCTTCTGTTGCC
 AGATGGCAGCGTTAGCATCATGGATGGTCTATGAAGGCATACTAGCCTGGGTTACCGTGAACCTTCTA
 ACAGGTACAGTGCATGGTGTGGCCAGGAGACTGTGGGACCCTTGACCTGGGGGTGCCTCCACCCAAA
 TCACGTTTCTACCCAGTTTGAAGAAACCTGGAACAAACACCTAGGGGCTACCTCACTTCTTTGAGAT
 GTTTAACAGCACTTTAAGCTCTATACATAGTTACTTGGGATTTGGACTGAAAGCTGCAAGACTGGCA
 ACTCTGGGAGCCCTGGAAGCAAAAGGGACTGATGGACATACGTTTGAAGTGCCTGTTTACCAAGATGGT
 TGAAGCAGAGTGGATCTTTGGGGGTGTGAAATACCAGTATGGTGGTAACCAAGAAGGGGAGATGGGCTT
 TGAACCTGTATGCGGAAGTGCTGAGGGTAGTACAGGGGAAACTTACCAGCCAGAAGAAGTCCGAGGA
 AGCGCCTTCTACGCTTCTTACTACTACGATCGAGCCGCTGACACACACTTGATCGATTATGAAAAGG
 GCGGGGTTTTAAAGTTGAAGATTTTGAAGAAAAGCCAGAGAAGTGTGTGACAACCTGGGGAGCTTCTC
 CTCGGGACAGTCTTCTCTGATGGACCTCACTTACATCACAGCCCTGTTGAAAGATGGTTTTGGCTTT
 GCCGACGGCACCTCTTACAGCTCACAAGAAAAGTGAACAACATAGAGACTGGTTGGGCCTTGGGGGCCA
 CCTTTCACCTGCTCCAGTCTCTGGGCATCACCAGCTGAGGCCAAGCTCCACCTCTGAAGCCTGCATTTCT
 GAACAGTTTTCTACAGGAAGGCGTGGACTCAGAGACATTTTCTGACCTCTGGAAGCCTGGCCCGA
 AACCCGTTAACTGGTTTTATAAGGAGGGAGGGGTTTTTATAGATGAGTCTTGTCTTGGAGCCTAGTGAATTTG
 GGCTTCAATGATTTGCACATCTAATGTGAATAGCTCCTAACCACTTGGTGGGTGCATGGCTGGCACCAGA
 CTGTAATCTTTTGGGATTCTTTGTTACAGAGTCTGCAAGGAAAAAAGAGAAAAGTTTGAAGTCCA
 TGCTAGATTGCGAGTTCAGAGACAGGTCCTGGGGACCAAGAACAATCTCGTTTCAACCCTTGGATGCC
 TCATTGCTTTGAATGGATTCAATTTTGGCTTATAAGCTGATTTACTGAAATCCCATACCCATCAATGCTG
 TTAATTTTTTCTTCTACCTTATTACATTCCTACCCTAAAAGCCTGGGGGAAATACCTGGTTTTGCT
 TCCCATCTATAATTGAGAAAAGGGGGGAAAAGATACTGTATTAGAATTTGTGTGATCCTGTGCCACAAT
 AGATCAACCAACCCATTTAAAGCTTAAA

Restriction Sites: RsrII-NotI

ACCN: BC015247

Insert Size: 1284 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC015247](#), [AAH15247](#)

RefSeq Size: 2099 bp

RefSeq ORF: 1284 bp

Locus ID: 12499

Cytogenetics: 12 39.18 cM

Gene Summary: Uridine diphosphatase (UDPase) that promotes protein N-glycosylation and ATP level regulation. UDP hydrolysis promotes protein N-glycosylation and folding in the endoplasmic reticulum, as well as elevated ATP consumption in the cytosol via an ATP hydrolysis cycle. Together with CMPK1 and AK1, constitutes an ATP hydrolysis cycle that converts ATP to AMP and results in a compensatory increase in aerobic glycolysis. The nucleotide hydrolyzing preference is GDP > IDP > UDP, but not any other nucleoside di-, mono- or triphosphates, nor thiamine pyrophosphate. Plays a key role in the AKT1-PTEN signaling pathway by promoting glycolysis in proliferating cells in response to phosphoinositide 3-kinase (PI3K) signaling. [UniProtKB/Swiss-Prot Function]