

Product datasheet for **MC227638**

Entpd5 (NM_001286058) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Entpd5 (NM_001286058) Mouse Untagged Clone
Tag: Tag Free
Symbol: Entpd5
Synonyms: A1196558; A1987697; Cd3914; ER-UDPase; mNTPase; NTPDase-5; NTPDase5; PcpH
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227638 representing NM_001286058
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCACTTCTGGGGGCTGTCTTCATGCTGATCATAGCCTGCGTTGGCAGCACTGTCTTCTACAGAG
AACAGCAGACCTGGTTTGAAGGTGTCTTCTGTCTCCATGTGCCCATTAATGTCAGTGCCGGCACCTT
TTATGGAATTATGTTTATGCGGGCAGCACTGGAACCTCGGATTCATGTTTACACTTTTGTGCAGAAAACA
GCAGGACAGCTCCCTTTCTGGAAGGTGAAATTTTATTCTGTGAAGCCGGGACTTTCTGCTTTTGTGG
ATCAGCCCAAACAGGGTCTGAGACTGTCCAGGAGCTCTTGGAGGTGGCCAAAGACTCGATCCCCAGAAG
CCACTGGGAAAGGACCCCGGTGTTCTGAAAGCAACGGCCGGACTCCGTTTGTGCTGAGCAGAAAAGCC
CAGGCTCTGCTTGGAGGTAGAGGAGATCTTCAAGAATTCACCTTTCCTGGTCCAGATGGCAGCGTTA
GCATCATGGATGGGTCTATGAAGGCATACTAGCCTGGTTACCGTGAACCTTCTAACAGGTGAGTGA
TGGTCGTGGCCAGGAGACTGTGGGGACCCTTGACCTGGGGGTGCCTCCACCAAATCACGTTTCTACCC
CAGTTTGAGAAAACCCTGGAACAACACCTAGGGGCTACCTCACTTCTTTGAGATGTTTAAACAGCACTT
TTAAGCTCTATACATAGTTACTTGGGATTTGGACTGAAAGCTGCAAGACTGGCAACTTGGGAGCCCT
GGAAGCAAAGGGACTGATGGACATACGTTTCAAGTGCCTGTTACCAAGATGGTTGGAAGCAGAGTGG
ATCTTTGGGGTGTGAAATACCAGTATGGTGGTAACCAAGAAGGGGAGATGGGCTTTGAACCCTGTATG
CGGAAGTCTGAGGGTAGTACAGGGGAACTTACCAGCCAGAAGAAGTCCGAGGAAGCGCCTTCTACGC
TTTCTCTACTACTACGATCGAGCCGCTGACACACACTTGATCGATTATGAAAAGGGCGGGTTTTAAAA
GTTGAAGATTTTGAAGAAAAGCCAGAGAAGTGTGTGACAACCTGGGGAGCTTCTCTCGGGCAGTCCTT
TCCTCTGCATGGACCTCACTTACATCACAGCCCTGTTGAAAGATGGTTTTGGCTTTGCCGACGGCACCT
CTTACAGCTCACAAAGAAAGTGAACAACATAGAGACTGGTTGGCCCTGGGGCCACCTTTCACCTGCTC
CAGTCTCTGGGCATCACCAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001286058
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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001286058.1</u> , <u>NP_001272987.1</u>
RefSeq Size:	4889 bp
RefSeq ORF:	1284 bp
Locus ID:	12499
UniProt ID:	<u>Q9WUZ9</u>
Cytogenetics:	12 39.18 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, compared to variant 2. It encodes the predominant protein (isoform b). Variants 2, 3 and 4 encode the same isoform b. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>