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Product datasheet for MR229848

Entpd5 (NM_001286049) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Entpd5 (NM_001286049) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Entpd5
Synonyms:	AI196558; AI987697; Cd39l4; ER-UDPase; mNTPase; NTPDase-5; NTPDase5; Pcph
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR229848 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACTTCCTGGGGGGCTGTCTTCATGCTGATCATAGCCTGCGTTGGCAGCACTGTCTTCTACAGAG
AACAGCAGACCTGGTTTGAAGGTGTCTTCTTGTCTTCCATGTGCCCCATTAATGTCAGTGCCGGCACCTT
TTATGGAATTATGTTTGATGCGGGCAGCACTGGAACTCGGATTCATGTTTACACTTTTGTGCAGAAAACA
GCAGGACAGCTCCCCTTTCTGGAAGGTGAAATTTTTGATTCTGTGAAGCCGGGACTTTCTGCTTTTGTGG
ATCAGCCCAAACAGGGTGCTGAGACTGTCCAGGAGCTCTTGGAGGTGGCCAAAGACTCGATCCCCAGAAG
CCACTGGGAAAGGACCCCGGTGGTTCTGAAAGCAACGGCCGGACTCCGTTTGCTGCCTGAGCAGAAAGCC
CAGGCTCTGCTCTTGGAGGTAGAGGAGATCTTCAAGAATTCACCTTTCCTGGTCCCAGATGGCAGCGTTA
GCATCATGGATGGGTCCTATGAAGGCATACTAGCCTGGGTTACCGTGAACTTTCTAACAGGTCAGCTGCA
TGGTCGTGGCCAGGAGACTGTGGGGACCCTTGACCTGGGGGGTGCCTCCACCCAAATCACGTTTCTACCC
CAGTTTGAGAAAACCCTGGAACAAACACCTAGGGGCTACCTCACTTCCTTTGAGATGTTTAACAGCACTT
TTAAGCTCTATACACATAGTTACTTGGGATTTGGACTGAAAGCTGCAAGACTGGCAACTCTGGGAGCCCT
GGAAGCAAAAGGGACTGATGGACATACGTTTCGAAGTGCCTGTTTACCAAGATGGTTGGAAGCAGAGTGG
ATCTTTGGGGGTGTGAAATACCAGTATGGTGGTAACCAAGAAGGGGAGATGGGCTTTGAACCCTGCTATG
CGGAAGTGCTGAGGGTAGTACAGGGGAAACTTCACCAGCCAGAAGAAGTCCGAGGAAGCGCCTTCTACGC
TTTCTCTTACTACTACGATCGAGCCGCTGACACACACTTGATCGATTATGAAAAGGGCGGGGTTTTAAAA
GTTGAAGATTTTGAAAGAAAAGCCAGAGAAGTGTGTGACAACTTGGGGAGCTTCTCCTCGGGCAGTCCTT
TCCTCTGCATGGACCTCACTTACATCACAGCCCTGTTGAAAGATGGTTTTGGCTTTGCCGACGGCACCCT
CTTACAGCTCACAAAGAAAGTGAACAACATAGAGACTGGTTGGGCCTTGGGGGCCACCTTTCACCTGCTC
CAGTCTCTGGGCATCACCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

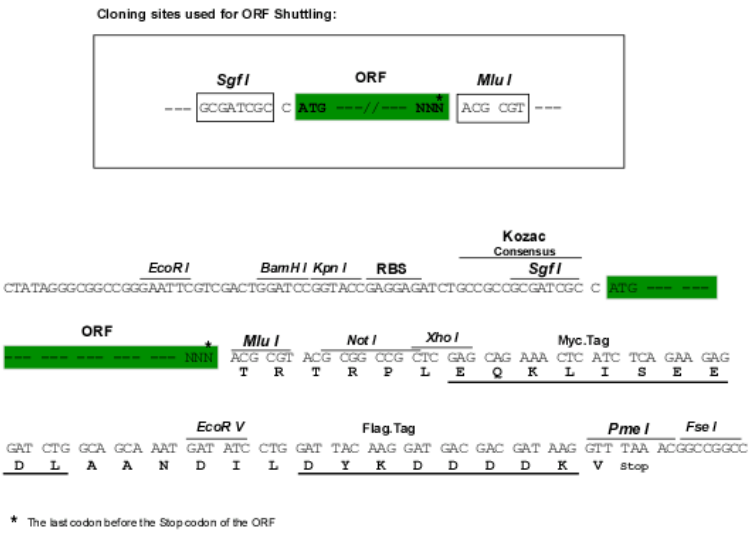
>MR229848 protein sequence
Red=Cloning site Green=Tags(s)

MATSWGAVFMLIIACVGSTVFYREQQTWFEGVFLSSMCPINVSAGTFYGIMFDAGSTGTRIHVYTFVQKT
AGQLPFLEGEIFDSVKPGLSAFVDQPKQGAETVQELLEVAKDSIPRSHWERTPVVLKATAGLRLLPEQKA
QALLLEVEEIFKNSPFLVPDGSVSIMDGSYEGILAWVTVNFLTGQLHGRGQETVGTLDLGGASTQITFLP
QFEKTLEQTPRGYLTSFEMFNSTFKLYTHSYLGFGLKAARLATLGALEAKGTDGHTFRSACLPRWLEAEW
IFGGVKYQYGGNQEGEMGFEPCYAEVLRVVQGKLHQPEEVRGSAFYAFSYYYDRAADTHLIDYEKGGVLK
VEDFERKAREVCDNLGSFSSGSPFLCMDLTYITALLKDGFGFADGTLLQLTKKVNNIETGWALGATFHLL
QSLGITS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286049

ORF Size: 1284 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: NM_001286049.1, NP_001272978.1

RefSeq Size: 4962 bp

RefSeq ORF: 1284 bp

Locus ID: 12499

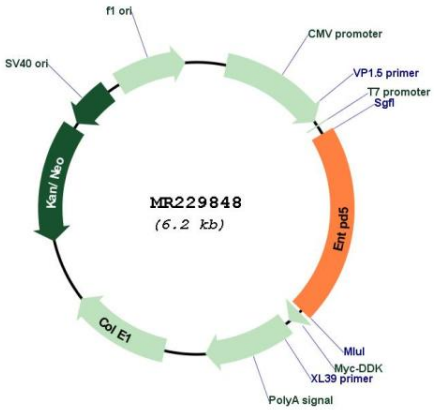
UniProt ID: Q9WUZ9

Cytogenetics: 12 39.18 cM

MW: 47.1 kDa

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]

Product images:



Circular map for MR229848