

Product datasheet for **MR216347**

Entpd5 (NM_007647) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Entpd5 (NM_007647) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Entpd5
Synonyms:	A1196558; A1987697; 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:

>MR216347 representing NM_007647
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCCTGCCTCCACAGGAGTGTGAGCAGCACTGCTTCAGCAACAAAGCCTCAGGTCCACATCTTGGGA
 AGAATATGGCCACTTCTGGGGGCTGTCTTCATGCTGATCATAGCCTGGGTTGGCAGCACTGTCTTCTA
 CAGAGAACAGCAGACCTGGTTTGAAGGTGTCTTCTGTCTTCCATGTGCCCCATTAATGTCAAGTCCCGG
 ACCTTTTATGGAATTATGTTTGTGCGGGCAGCACTGGAAGTCCGATTTCATGTTTACACTTTTGTGCAGA
 AAACAGCAGGACAGCTCCCTTTCTGGAAGGTGAAATTTTATTCTGTGAAGCCGGGACTTTCTGCTTT
 TGTGGATCAGCCCAAACAGGGTGTGAGACTGTCCAGGAGCTCTTGAGGTGGCCAAAGACTCGATCCCC
 AGAAGCCACTGGGAAAGGACCCCGGTGTTCTGAAAGCAACGGCCGACTCCGTTTGTGCCTGAGCAGA
 AAGCCAGGCTCTGCTCTTGAGGTAGAGGAGATCTTCAAGAATTCACCTTTCTGGTCCAGATGGCAG
 CGTTAGCATCATGGATGGTCTATGAAGGCATACTAGCCTGGGTTACCGTGAACCTTCTAACAGGTCAG
 CTGCATGGTCTGGCCAGGAGACTGTGGGGACCTTGACCTGGGGGTGCCTCCACCCAAATCACGTTTC
 TACCCAGTTTGAGAAAACCTGGAACAAACACCTAGGGGCTACCTCACTTCTTTGAGATGTTAACAG
 CACTTTTAAAGCTCTATACACATAGTTACTTGGGATTTGGACTGAAAGCTGCAAGACTGGCAACTCTGGGA
 GCCCTGGAAGCAAAGGGACTGATGGACATACGTTTCGAAGTGCCTGTTTACCAAGATGGTTGGAAGCAG
 AGTGGATCTTTGGGGGTGTAATACCAGTATGGTGGTAACCAAGAAGGGGAGATGGGCTTTGAACCCTG
 CTATGCGGAAGTGTGAGGAGTACAGGGGAACTTACCAGCCAGAAGAAGTCCGAGGAAGCGCCTTC
 TACGCTTTCTCTACTACTACGATCGAGCCGCTGACACACACTTGATCGATTATGAAAAGGGCGGGTTT
 TAAAAGTTGAAGATTTTGAAGAAAAGCCAGAGAAGTGTGTGACAACCTTGGGGAGCTTCTCTCGGGCAG
 TCCTTTCTCTGCATGGACCTCACTTACATCACAGCCCTGTTGAAAGATGGTTTTGGCTTTGCCGACGCG
 ACCCTCTTACAGCTCACAAAGAAAGTGAACAACATAGAGACTGGTTGGGCCTTGGGGCCACCTTTCACC
 TGCTCCAGTCTCTGGGCATCACCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216347 representing NM_007647
 Red=Cloning site Green=Tags(s)

MTLPPQECEQHCFSNKASGPHLGKNMATSWGAVFMLIIACVGVSTVFYREQQTWFEGVFLSSMCPINVSAG
 TFYIMFDAGSTGTRIHVYTFVQKTAGQLPFLEGEIFDSVKPGLSAFVDQPKQGAETVQELLEVAKDSIP
 RSHWERTPVVLKATAGLRLLPEQKAQALLLEVEEIFKNSPFLVPDGSVSIIMDGSYEGILAWVTVNFLTQ
 LHGRGQETVGTLDLGGASTQITFLPQFEKLEQTTPRGYLTSEFMFNSTFKLYTHSYLGFGLKAARLATLG
 ALEAKGTDGHTFRSACLRWLEAEWIFGGVQYQYGGNQEGEMGFPCYAEVLRVVQGLHQPEEVRGSAF
 YAFSYYDRAADTHLIDYEKGGVLKVEDFERKAREVCDNLGSFSSGSPFLCMDLYITALLKDGFGFADG
 TLLQLTKKVNNIETGWALGATFHLQLSLGITS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

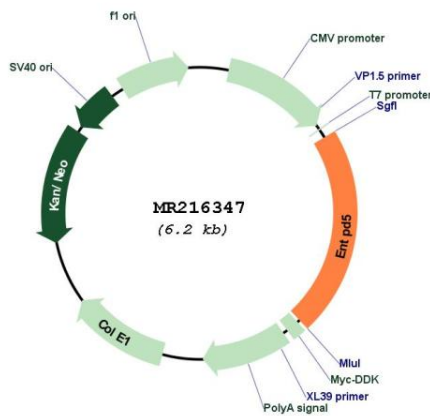
SgfI-MluI

Cytogenetics: 12 39.18 cM

MW: 50.3 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 MR216347