

Product datasheet for RC218489

MPPE1 (NM_023075) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPPE1 (NM_023075) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPPE1
Synonyms:	Cdc1; PGAP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218489 representing NM_023075 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCGATGATCGAATTGGGGTTTGAAGACAGAATTTTCATCCATTAAAGAGGAAGAGTTCATTGCTGT
TGAAACTCATAGCTGTTGCTCTTTGCTGTGCTTCTATTTTGTGAATTTTAACTATTACTTAGCGATCTT
TCAGTGTAAATGGCCTGAAGTGAAAACACAGCCTCTGATGGTGAACAGACCACAGTGAAGCTGTGCTC
AAAGCCATGTTTTGGCTGACACCCATTTGCTTGGGAATTCCTAGGCCACTGGCTGGACAAATTACGAA
GGGAATGGCAGATGGAGAGAGCGTTCAGACAGCTCTGTGGTTGCTGCAGCCGGAAGTCGTCTTCATCCT
GGGGGATATCTTTGATGAAGGGAAGTGGAGCACCCCTGAGGCCTGGGCGGATGATGTGGAGCGGTTTCAG
AAAATGTTTCAGACACCCAAGTCATGTACAGCTGAAGGTAGTTGCTGGAACCATGACATTGGCTTCCATT
ATGAGATGAACACATACAAAGTAGAACGCTTTGAGAAAGTGTTTCAGCTCTGAAAGACTGTTTTCTTGAA
AGGCATTAACCTTTGTGATGGTCAACAGCGTGGCGCTGAACGGGGATGGCTGTGGCATCTGCTCTGAAACA
GAAGCAGAGCTCATTGAAGTTTCTCAGAGCTGAAGTCTCCGAGAGGCACGTGGCTCCAGCCGGTGTG
GACCTGGGCTCTGCTGCCCACGCTGCCCCTGTCTCTGCAGCATTATCCTCTGTATCGGAGAAGTGA
TGCTAACTGTTCTGGGAAGACGCTGCTCCTGCAGAGGAAAGGGACATCCATTTAAGGAGAACTATGAC
GTGCTTTCACGGGAGGCATCACAAAAGCTGCTGTGGTGGCTCCAGCCGCGCTGGTTCTCAGTGGCCACA
CGCACAGCGCCTGCGAGGTGCACACGGGGGCCGAGTCCCGAGCTCAGCGTCCCATCTTTCAAGTTGGAG
GAACAGAAACAACCCAGTTTCATCATGGGTAGCATCACGCCACAGACTACACCTCTCCAAGTGTAC
CTCCACGTGAGGATGTGGTTTTGATCATCTACTGTGGAGTGGTGGGTTCTTGTGGTCTCACACTCA
CTCACTTTGGGCTTCTAGCCTCACCTTTTCTTTCTGGTTTGAAGTGTCTCGGAAAGCGTAAGACAAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >RC218489 representing NM_023075
 Red=Cloning site Green=Tags(s)

MAMIELGFRQNFHPLKRKSSLLKLIADVFAVLLFCEFLIYYLAIFQCNWPEVKTTASDGEQTTREPV
 KAMFLADTHLLGEFLGHWDKLRREWQMERAFQTALWLLQPEVVFILGDFDEGWSTPEAWADDVERFQ
 KMRHPSHVQLKVVAGNHDIGFHYEMNTYKVERFEKVFSERLFSWKGINFVMVNSVALNGDGCICSET
 EAEIEVSHRLNCSREARGSSRCGPGPLPTSAPVLLQHYPLYYRSDANCSGEDAAPAEERDIPFKENYD
 VLSREASQKLLWWLQPRVLVSGHHSACEVHHGGRVPELSVPSFSWRNRNPSFIMGSITPTDYTLKCY
 LPREDVLLIYCGVGVFLVVLTLTHFGLLASPFLSGLNLLGKRKTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8115_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023075

ORF Size: 1188 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_023075.6](#)

RefSeq Size: 2976 bp

RefSeq ORF: 1191 bp

Locus ID: 65258

UniProt ID: [Q53F39](#)

Cytogenetics: 18p11.21

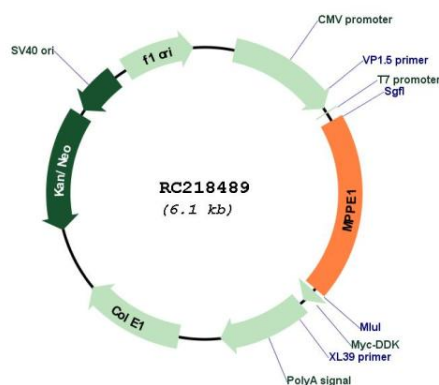
Domains: Metallophos

Protein Families: Transmembrane

MW: 45.1 kDa

Gene Summary: Metallophosphoesterase required for transport of GPI-anchor proteins from the endoplasmic reticulum to the Golgi. Acts in lipid remodeling steps of GPI-anchor maturation by mediating the removal of a side-chain ethanolamine-phosphate (EtNP) from the second Man (Man2) of the GPI intermediate, an essential step for efficient transport of GPI-anchor proteins. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC218489