

Product datasheet for **RG218489**

MPPE1 (NM_023075) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPPE1 (NM_023075) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MPPE1
Synonyms:	Cdc1; PGAP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218489 representing NM_023075 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGATGATCGAATTGGGTTTGAAGACAGAATTTTCATCCATTAAAGAGGAAGAGTTCATTGCTGT
TGAAACTCATAGCTGTTGCTTTGCTGTGCTTCTATTTTGTGAATTTTAATCTATTACTTAGCGATCTT
TCAGTGTAAATGGCCTGAAGTGAACACAGCCTCTGATGGTGAACAGACCACGTGAGCCTGTGCTC
AAAGCCATGTTTTGGCTGACCCATTTGCTTGGGAATTCCTAGGCCACTGGCTGGACAAATTACGAA
GGGAATGGCAGATGGAGAGAGCGTTCAGACAGCTCTGTGGTTGCTGCAGCCGGAAGTCGTCTTCATCCT
GGGGGATATCTTTGATGAAGGAAGTGGAGCACCCCTGAGGCCTGGGCGGATGATGTGGAGCGGTTTCAG
AAAATGTTGAGACACCCAAAGTCATGTACAGCTGAAGGTAGTTGCTGGAACCATGACATTGGCTTCCATT
ATGAGATGAACACATACAAAGTAGAACGCTTTGAGAAAGTGTTGAGCTCTGAAAGACTGTTTTCTTGAA
AGGCATTAACTTTGTGATGGTCAACAGCGTGGCGCTGAACGGGGATGGCTGTGGCATCTGCTCTGAAACA
GAAGCAGAGCTCATTGAAGTTTCTACAGACTGAAGTCTCCGAGAGGCACGTGGCTCCAGCCGGTGTG
GACCTGGGCTCTGCTGCCCACGTCTGCCCTGTCTCTGTCAGCATTATCCTCTGTATCGGAGAAGTGA
TGCTAACTGTTCTGGGAAGACGCTGCTCCTGCAGAGGAAAGGGACATCCATTTAAGGAGAACTATGAC
GTGCTTTCACGGGAGGCATCACAAAGCTGCTGTGGTGGCTCCAGCCGCGCTGGTTCTCAGTGGCCACA
CGCACAGCGCTGCGAGGTGCACACGGGGCCGAGTCCCGAGCTCAGCGTCCCATCTTTCAAGTTGGAG
GAACAGAAACAACCCAGTTTCATCATGGGTAGCATCACGCCACAGACTACACCTCTCCAAGTGTAC
CTCCACGTGAGGATGTGGTTTTGATCATCTACTGTGGAGTGGTGGGTTCTTGTGGTCTCACACTCA
CTCACTTTGGGCTTCTAGCCTCACCTTTTCTTTCTGGTTTGAAGTGGCTCGGAAAGCGTAAGACAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218489 representing NM_023075
 Red=Cloning site Green=Tags(s)

MAMIELGFRQNFHPLKRKSSLLKLIAVVFVALLFCEFLIYYLAIFQCNWPEVKTTASDGEQTTREPVL
 KAMFLADTHLLGEFLGHWLDKLRREWQMERAFQTALWLLQPEVVFILGDIFDEGKWSTPEAWADDVERFQ
 KMRHPSHVQLKVVAGNHDIGFHYEMNTYKVERFEKVFSSERLFSWKGINFVMVNSVALNGDGCICSET
 EAEIEVSHRLNCSREARGSSRCGPGLLPTSAPVLLQHYPLYYRSDANCSGEDAAPAEERDIPFKENYD
 VLSREASQKLLWWLQPRLLVLSGHTHSACEVHHGGRVPELSVPSFSWRNRNPSFIMGSIPTDYTLSCKY
 LPREDVLLIYCGVVGFLVVLTLTHFGLLASPFLSGLNLLGKRKTR

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_023075.6](#)

RefSeq Size: 2976 bp

RefSeq ORF: 1191 bp

Locus ID: 65258

UniProt ID: [Q53F39](#)

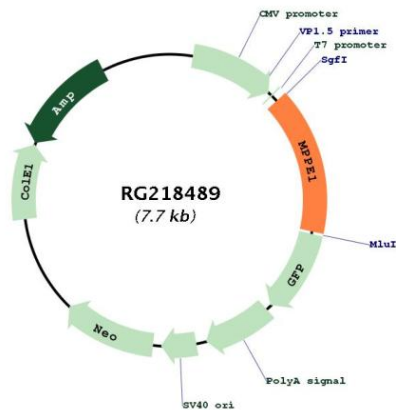
Cytogenetics: 18p11.21

Domains: Metallophos

Protein Families: Transmembrane

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 RG218489