

Product datasheet for SC112324

MPPE1 (NM_023075) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPPE1 (NM_023075) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPPE1
Synonyms:	Cdc1; PGAP5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112324 sequence for NM_023075 edited (data generated by NextGen Sequencing) <pre> ATGGCGATGATCGAATTGGGGTTTGAAGACAGAATTTTCATCCATTAAGAGGAAGAGT TCATTGCTGTTGAACTCATAGCTGTTGTCTTTGCTGTGCTTCTATTTTGTGAATTTTA ATCTATTACTTAGCGATCTTTCAGTGTAATTGGCCTGAAGTGAACACACAGCCTCTGAT GGTGAACAGACCACAGCTGAGCCTGTGCTCAAAGCCATGTTTTGGCTGACACCCATTTG CTTGGGGAATTCCTAGGCCACTGGCTGGACAAATTACGAAGGGAATGGCAGATGGAGAGA GCGTTCCAGACAGCTCTGTGGTTGCTGCAGCCGGAAGTCGTCTTCATCCTGGGGGATATC TTTGATGAAGGGAAGTGGAGCACCCCTGAGGCCTGGGCGGATGATGTGGAGCGGTTTCAG AAAATGTTTCAGACACCAAGTCATGTACAGCTGAAGGTAGTTGCTGGAACCATGACATT GGCTTCCATTATGAGATGAACACATACAAAGTAGAACGCTTTGAGAAAGTGTTCAGCTCT GAAAGACTGTTTTCTTGAAAGGCATTAACCTTTGTGATGGTCAACAGCGTGGCGCTGAAC GGGGATGGCTGTGGCATCTGCTCTGAAACAGAAGCAGAGCTCATTGAAGTTTCTCACAGA CTGAACTGCTCCCGAGAGGCACGTGGCTCCAGCCGGTGTGGACCTGGGCCTCTGTGCCC ACGTCTGCCCCTGTCTCCTGTCAGCATTATCCTCTGTATCGGAGAAGTGATGCTAACTGT TCTGGGAAGACGCTGCTCCTGTAGAGGAAAGGACATCCCATTTAAGGAGAACTATGAC GTGCTTTACGGGAGGCATCACAAAAGCTGCTGTGGTGGCTCCAGCCGCGCTGGTTCTC AGTGGCCACACGACAGCGCCTGCGAGGTGCACCACGGGGCCGAGTCCCCGAGCTCAGC GTCCCATCTTTTCAGTTGGAGGAACAGAAACAACCCAGTTTCATCATGGGTAGCATCACG CCACAGACTACCCCTCTCCAAGTGCTACCTCCACGTGAGGATGTGGTTTTGATCATC TACTGTGGAGTGGTGGGCTTCCTTGTGGTCCTCACTCACTCACTTTGGGCTTCTAGCC TCACCTTTTCTTCTGGTTTGAACCTTGCTCGGAAAGCGTAAGACAAGATGA </pre>

Clone variation with respect to NM_023075.5
 803 c=>t


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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_023075 unedited
 CTGTACCATTTGAACCTCATATAGGCGGCCGCGCAATCGGCACGAGGGTAAAAGTA
 TAAGACGATTAATTTGGCCAATGTAGATAGGATTATGTAACCTATTAGTTCTTAATAGAG
 GGAGGTCGTGATACCTGTATTATTAGGGAACATAACTGAATTCCTTTCCCGTAG
 GTGCCCAGCTAAGACCTGAATGCCATCACCTCCCCAGGGCTCTGCAGTTTTCTCGTGGT
 GAACCCCTTGATGGATTTGTTGTTGCTTGAGAAATGGCGATGATCGAATTGGGGTTTGAA
 GACAGAATTTTCATCCATTAAGAGGAAGAGTTTCATTGCTGTTGAACTCATAGCTGTTG
 TCTTTGCTGTGCTTCTATTTTGTGAATTTTAATCTATTACTTAGCGATCTTTCAGTGTA
 ATTGGCCTGAAGTGAACACACAGCCTCTGATGGTGAACAGACCACAGTGAAGCTGTGC
 TCAAAGCCATGTTTTGGCTGACACCCATTTGCTTGGGAATTCTAGGCCACTGGCTGG
 ACAAACTACTAAGGGAATGGCAGATGGAGAGAGCGTTCCAGACAGCTCTGTGGTTGCTGC
 AGCCGGAAGTCGTCTTCATCCTGNGGGATATCTTTGATGAAGGGAAGTGGAGCACCCCTG
 AGGCCTGNGCGGATGATGTGGAGCGGTTTCAGAAAATGTTGAGACACCAAGTCATGTAC
 AGCTGACGGTAGTTGCTGGAACCATGACATTGGCTTCCATTATGAGATGAACACATACA
 AAGTAGAACGCTTTGAGACAGTGTTCAGCTCTGAAAGACTGTTTTCAGGCCAAGGCATTA
 ACTATGTGATGATCACCAGCGTTGCGCTTCACGGGGCATGGCTGTGGCATCTGCTCTGAA
 ACAGAGCAGAGCTCATTGAATTTCTCCAGACTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_023075 unedited
 ATCTATGNNACCGCGCCGAATTCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTCAACAGGAAAAGGGAACAGCCCAATTTTATTTATGTA
 TACACATAATCCCAAGTGGGGGCTGGGGCCACCAGCCCCTTCTGGGGGAACAAGGACTG
 TCGGGCTTGAGTGACAACCTTAATAGCTTTTACATACTGGACAAATGCAACCTTTGAT
 GATACATATTTTTGATAAAAATGAAAAACAAATTTGTTGAAAAGTCCCTGTCCCTTTT
 ATAGCATGAAAACAGTCCAATCACTATTTATTTTGCAGTTACTCTTTTCAGGGATTGAA
 AATTTTTGGGCTGTGCAAAAAACGGCCTGTAATTGGTCTAATCATCCACTTGATTCTAA
 CATGATCTTTGCCAAAAGTTCCATTTCTTGGGCTTGATATTAATAAGGGCGCCTGCTCT
 TAATTTTGTCTTACCCTTTCCGAGCAAGTTTAAACCAAAAAAAGGGGAGGCTAAAAC
 CCCAAAGGGAGGGAGTGTGAGGACCACAAGGAGCCCCACCCTCTCACAGTAGTATGATCA
 AAACCCCTTCTCCCCTGGAAGGTATACTTTGAGAAGGTGGTATCCTGTGGCCGCTATCC
 CCCCCATGATGAACCTGGGGTTGTTTTGTTCTCCATCTGCAAAATGGGCCCCGATTTC
 CGGGGCACTGCCCTTTGGTGCCTCCACAAGCCTTTGTCCGTGTGGCCATCATAAAAAA
 CGTCCGGGTTGGGAAACCTACACTATCCTTTTCGACGCCCTTCCGTGCAAAACCCCTTAA
 ATTTCCCTTAAAAGGGCGGCTCCTTTCTTCCAAGGCACACCGTTTTATCCCCAACGT
 CTCCCTCCCCTTCCGTTACCCAAGAAACCTTCTCTGAAGTCACAGGTCACAACCTGGTTA
 CCACCGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_023075

Insert Size:

1890 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).

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:	<u>NM_023075.3, NP_075563.3</u>
RefSeq Size:	2825 bp
RefSeq ORF:	1191 bp
Locus ID:	65258
UniProt ID:	<u>Q53F39</u>
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] Transcript Variant: This variant (1) encodes the longer isoform (1).