

Product datasheet for SC112661

GMPPA (NM_013335) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPPA (NM_013335) Human Untagged Clone
Tag:	Tag Free
Symbol:	GMPPA
Synonyms:	AAMR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112661 sequence for NM_013335 edited (data generated by NextGen Sequencing)

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ATGCTCAAAGCGGTGATCCTGATTGGAGGCCCTCAAAGGGAACCTCGCTTACGACCTTTG
TCTTTTGAAGTGTCCCAAACCATTGTTTCTGTGGCAGGGTCCCTATGATCCAACACCAT
ATTGAAGCCTGTGCCAGGTCCCTGGAATGCAGGAGATTCTGCTATTGGCTTCTACCAA
CCTGATGAGCCCCTACCCAGTTCCTAGAAGCCGCCAGCAGGAGTTAACCTTCCAGTC
AGGTACCTGCAGGAATTTGCCCCCTAGGCACAGGGGGTGGTCTTTACCATTTTCGAGAC
CAGATCCTGGCTGGGAGCCCCGAGGCATTCTTCGTGCTCAATGCTGATGTCTGCTCCGAC
TTCCCCTTGAGTCTATGTTGGAAGCCCACCGACGCCAGCGTCACCCCTTCTTACTCCTT
GGCACTACGGCTAACAGGACGCAATCCCTCAACTACGGCTGCATCGTTGAGAATCCACAG
ACACACGAGGTATTGCACTATGTGGAGAAACCCAGCACATTTATCAGTGACATCATCAAC
TGCGGCATCTACCTCTTTTCTCCTGAAGCCTTGAAGCCTCTTCGGGATGTCTCCAGCGT
AATCAGCAGGATGGGCAATTGGAGGACTCACCAGGCTTGTGGCCAGGGGAGGTACCATC
CGCCTAGAGCAGGATGTGTTTTAGCCCTGGCAGGGCAGGGCCAGATATACGTGCATCTC
ACTGATGGTATCTGGAGTCAGATCAAGTCCGCAGGTTACGCCCTTACGCCTCCCGCCTC
TACCTGAGCCGATACCAGGACACTACCCAGAACGGCTGGCCAAGCACACCCCAGGGGGC
CCATGGATCCGAGGGAATGTGTACATCCACCCGACCGCAAGGTGGCCCCCTCGGCTGTG
CTGGGCCCCAACGTCTCCATCGGGAAGGGGGTGACCGTGGGTGAGGGTGTGCGGCTCCGG
GAGAGCATCGTCTCCATGGAGCCACTTTCAGGAGCACACGTGTGTTCTGCATAGCATC
GTGGGCTGGGGGAGCACCGTGGGACGCTGGGCGCGGTGGAGGGTACCCCAAGTGACCCCT
AACCCCAACGATCCCCGAGCCCGCATGGACAGTGAGAGCCTCTTCAAGGACGGGAAGCTG
CTGCCTGCTATACCATCCTGGGCTGCCGAGTCCGGATCCCTGCCGAGGTGCTCATCCTG
AACTCGATTGTTCTGCCACACAAGGAGCTGAGCCGAAGCTTACCAACCAGATCATCCTC
TGA

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Clone variation with respect to NM_013335.3
1053 c=>g



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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_013335 unedited
CCGTTTCAGAAATTTGATATACGACTTTACTATAGGGCGGCCGGAATTCGCACGAGGTGAA
GGGAGCTATGTGTTTAGGTAGCAGTCACCATATGCTCAAAGCGGTGATCCTGATTGGAG
GCCCTCAAAGGGAACTCGCTTCAGACCTTTGTCTTTTGAGGTGCCCAAACCATTTGTTTC
CTGTGGCAGGGGTCCCTATGATCCAACACCATATTGAAGCCTGTGCCAGGTCCCTGGAA
TGCAGGAGATTCTGCTCATTGGCTTCTACCAACCTGATGAGCCCTCACCAGTTCCTAG
AAGCCGGCCAGCAGGAGTTAACCTTCCAGTCAGGTACCTGCAGGAATTTGCCCCCTAG
GCACAGGGGGTGTCTTTACCATTTTCGAGACCAGATCCTGGCTGGGAGCCCGAGGCAT
TCTTCGTGCTCAATGCTGATGTCTGCTCCGACTTCCCCTTGAGTGCTATGTTGGAAGCCC
ACCGACGCCAGCGTCACCTTTTCTACTCCTTGGCACTACGGCTAACAGGACGCAATCCC
TCAACTACGGCTGCATCGTTGAGAATCCACAGACACAGAGGTATTGCACTATGTGGAGA
AACCCAGCACATTTATCAGTGACATCATCAACTGCGGCATCTACCTTTTTCTCCTGAAG
CCTTTGAGCCTCTTCGGGATGTCTTCCAGCGTAATCAGCAGGATGGGCAATTGGAGGACC
TCACCAGCTTGTGGCCAGGGCAGGTACCATCCGCTAGAGCAGGATGTGTTTTAGCCC
TGGCAGGCCAGGCCAGATATACGTGCATCTCACTGATGGTATCCTGAAGTCAGATCAAG
TCGCAAGTTCAGCCCTCTACGCCTNNGCCTTTACCTGAGCCGATACCAGGACACTCACC
CAGAACGGCTGGCCAAGCACACCCAGGGGGCCATGAAN
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_013335 unedited
GGGGGGCCATGNNGATTCTTTTNNNNNNNGGNTTTTCGTGNACCCGGACCGCATTTTAN
GATCGGTTTTTTTTTTTTTTTTTTTTTCCAGGTTACGGGGTTTATTAGGGAGTCGGGAGG
GAGAAAACCCAGGAGTCCCAGGCCATCCACATTGCTCCCGGCATGTGACGATCCAGCC
TGGCTTTCTCTGGTCTTTCTGGACAGAGGCTGGCCAAGCAGGCAGCAGCCTCAAGGGGA
GTGGGTAGGAGCTGGGGGCTTCTGGCAGCCCTACTCAGAGGATGATCTGGTTGGTGAAG
CTTCGGCTCAGCTCCTTGTGTGGCAGAACAATCGAGTTCAGGATGAGCACCTCGGCAGGG
ATCCGGACTCGGCAGCCAGGATGGTGATAGCAGGCAGCAGCTTCCCGTCTTGAAGAGG
CTCTCACTGTCCATGCGGGCTCGGGGATCGTTGGGGTTAGGGTCACTGGGGGTACCCTCC
ACGCGCGCCAGCGTCCCACGGTCTCCCCAGCCACGATGCTATGCAGAACACACGTG
TGCTCTGCAAAGTGGCTCCATGGAGGACGATGCTCTCCCGAGCCGCACACCCTCACC
ACGGTCACCCCTTCCCAGTGGAGACGTTGGGGCCAGCACAGCCGAGGGGGCCACCTTG
CCGGTCGGGTGGATGTACACATTCCCCTCGATCCATGGGCCCTTGGGGTGTGCTTGGCC
AGCCGTTCTGGGTGAGTGTCTGGTATCCGCTCAGGTAAGGCGGGAGGCCTAAAAGCCTT
GACCTGCGGACTGGATCTGACTTCAGAACCTCATGAAAATGCCGTTTTTTGGCCCTGC
CCTGCCAGGGCTGAAAACAATTCTGCTCTAGGCCGATGGACCCTGCCCTGGCCAAAACCC
GGGGAAGCCCTCAATGGCCATCTGCTGATACCCCTGAAAGACATCCGAAAAGCCTTAAGG
TTTTAGGAAAAAAAAGTAATCCCCCATTGATGAGTCT
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Restriction Sites:

NotI-NotI

ACCN:

NM_013335

Insert Size:

1570 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_013335.2, NP_037467.2</p>
RefSeq Size:	<p>1543 bp</p>
RefSeq ORF:	<p>1263 bp</p>
Locus ID:	<p>29926</p>
UniProt ID:	<p>Q96JJ6</p>
Cytogenetics:	<p>2q35</p>
Domains:	<p>hexapep, NTP_transferase</p>
Protein Pathways:	<p>Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways</p>
Gene Summary:	<p>This gene is thought to encode a GDP-mannose pyrophosphorylase. This enzyme catalyzes the reaction which converts mannose-1-phosphate and GTP to GDP-mannose which is involved in the production of N-linked oligosaccharides. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) uses two different splice sites in the 5' UTR, compared to variant 2. Variants 1 and 2 encode the same protein.</p>