

## Product datasheet for **SC320736**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_013335.2  
 GGGCGGCAGAGCTGGAGTGAAGGGAGCTAGTGGTAAAGGGAGCTGGTGGAGGGGTGGCGG  
 CAGGGGTAAAGGGCAGGGGACACCCTCTAGACGGAGAGCGGGCTCCGAGGTCCTGGCTGG  
 CCCTCGGTGCGCCCGCCCTGTGTTGGTCCCACAATCCCTGGCAATGAGAGGCCAGGGTT  
 TATTGGACAGAGTCAGTTGTGGGGTTCAGAGGGTCAGCAATCAATCAATCCTCCGAATCC  
 AGAGATTTAGACCAGTCGTCCGTATTAGGACTGGAGGGGGTCAATAGGTTCAAGTGTGTT  
 GAGATGCCAAGGGAACCTGTCTTTTGGATTGGGGTTCAACATACAGAGGTAGCAGTACC  
 ATTATGCTCAAAGCGGTGATCCTGATTGGAGGCCCTCAAAGGGAACCTCGCTCAGACCT  
 TTGTCTTTGAGGTGCCCAAACATTGTTTCTGTGGCAGGGGTCCCTATGATCCAAACAC  
 CATATTGAAGCCTGTGCCAGGTCCTGGAATGCAGGAGATTCTGCTCATTGGCTTCTAC  
 CAACCTGATGAGCCCTCACCCAGTTCCTAGAAGCCGCCAGCAGGAGTTAACCTTCCA  
 GTCAGGTACCTGCAGGAATTTGCCCCCTAGGCACAGGGGGTGGTCTTACCATTTTCGA  
 GACCAGATCCTGGCTGGGAGCCCGAGGCATTCTCGTGTCAATGCTGATGTCTGCTCC  
 GACTTCCCCTTGAGTGTATGTTGGAAGCCACCAGCCAGCGTCACCCTTTCTTACTC  
 CTTGGCACTACGGCTAACAGGACGCAATCCCTCAACTACGGCTGCATCGTTGAGAATCCA  
 CAGACACACGAGGTATTGCACTATGTGGAGAAACCAGCAGATTTATCAGTGACATCATC  
 AACTGCGGCATCTACCTCTTTCTCCTGAAGCCTTGAAGCCTCTTCGGGATGTCTCCAG  
 CGTAATCAGCAGGATGGGCAATTGGAGGACTCACCAGGCTTGTGGCCAGGGGCAGGTACC  
 ATCCGCCCTAGAGCAGGATGTGTTTTAGCCCTGGCAGGGCAGGGCCAGATATACGTGCAT  
 CTCACTGATGGTATCTGGAGTCAGATCAAGTCCGAGGTTTCAGCCCTCTACGCCTCCCGC  
 CTCTACCTGAGCCGATACCAGGACACTCACCCAGAACGGCTGGCCAAGCACACCCAGGG  
 GGCCCATGGATCCGAGGGAATGTGTACATCCACCCGACCAGGCAAGGTGGCCCTCGGCT  
 GTGCTGGGCCCAACGTCTCCATCGGGAAGGGGGTGACCGTGGGTGAGGGTGTGCGGCTC  
 CGGGAGAGCATCGTCCATGGAGCCACTTTCAGGAGCACACGTGTGTTCTGCATAGC  
 ATCGTGGGCTGGGGAGCACCGTGGGACGCTGGGCCCGCGTGGAGGGTACCCCAAGTGAC  
 CCTAACCCCAACGATCCCGAGCCCGCATGGACAGTGAGAGCCTTCAAGGACGGGAAG  
 CTGCTGCCTGCTATCACCATCCTGGGCTGCCGAGTCCGGATCCCTGCCGAGGTGCTCATC  
 CTGAACTCGATTGTTCTGCCACACAAGGAGCTGAGCCGAAGCTTACCAACCAGATCATC  
 CTCTGAGTAGGGTGCAGAAAGGCCCCAGCTCCTACCCACTCCCCTTGAGGCTGCTGCC  
 TGCTTGGCCAGCCTCTGTCCAGAAAGGACCAGAGAAAGCCAGGCTGGATCGTCACATGCC  
 GGGGAGCAATGTGGATGGCTGGGGACTCCTGGGTTTTCTCCCTCCCGACTCCCTAATAA  
 ACCCCGTGAACCTTGAAAAA  
 AA  
 AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_013335

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_013335.2</a> , <a href="#">NP_037467.2</a>
<b>RefSeq Size:</b>	1543 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	29926
<b>UniProt ID:</b>	<a href="#">Q96IJ6</a>
<b>Cytogenetics:</b>	2q35
<b>Domains:</b>	hexapep, NTP_transferase
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways
<b>Gene Summary:</b>	<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]</p> <p>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>