

## Product datasheet for **RG200149**

### GMPPA (NM\_013335) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GMPPA (NM\_013335) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** GMPPA  
**Synonyms:** AAMR  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200149 representing NM\_013335  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTCAAAGCGGTGATCCTGATTGGAGGCCCTCAAAGGGAACCTCGCTCAGACCTTTGTCTTTGAGG  
 TGCCCAAACCATTGTTTCTGTGGCAGGGGTCCCTATGATCCAACACCATTGAAGCCTGTGCCAGGT  
 CCCTGGAATGCAGGAGATTCTGCTCATTGGCTTCTACCAACCTGATGAGCCCTCACCCAGTTCTAGAA  
 GCCGCCAGCAGGAGTTAACCTTCCAGTCAGGTACCTGCAGGAATTTGCCCCCTAGGCACAGGGGTG  
 GTCTTTACCATTTTCGAGACCAGATCCTGGCTGGGAGCCCGAGGCATTCTTCGTGCTCAATGCTGATGT  
 CTGCTCCGACTTCCCCTTGAGTGTATGTTGGAAGCCACCGACGCCAGGTCACCCCTTCTACTCCTT  
 GGCACTACGGCTAACAGGACGCAATCCCTCAACTACGGCTGCATCGTTGAGAATCCACAGACACACGAGG  
 TATTGCACTATGTGGAGAAACCCAGCACATTTATCAGTGACATCAACTGCGGCATCTACCTCTTTTC  
 TCCTGAAGCCTTGAAGCCTTTCGGGATGCTTCCAGCGTAATCAGCAGGATGGGCAATTGGAGGACTCA  
 CCAGGCTTGTGGCCAGGGCAGGTACCATCCGCCTAGAGCAGGATGTGTTTTAGCCCTGGCAGGGCAGG  
 GCCAGATATACGTGCATCTCACTGATGGTATCTGGAGTCAGATCAAGTCCGAGGTTCCAGCCCTACGC  
 CTCCCCTCTACCTGAGCCGATACCAGGACACTACCCAGAACGGCTGGCCAAGCACACCCAGGGGGC  
 CCATGGATCCGAGGGAATGTGTACATCCACCCGACCGCAAGGTGGCCCTCGGCTGTGCTGGGCCCA  
 ACGTCTCCATCGGGAAGGGGTGACCGTGGGTGAGGGTGTGCGGCTCCGGGAGAGCATCGTCTCCATGG  
 AGCCACTTTGCAGGAGCACACGTGTGTTCTGCATAGCATCGTGGGCTGGGGGAGCACCGTGGGACGCTGG  
 GCCCGGTGGAGGTTACCCAGTGACCCTAACCCCAACGATCCCGAGCCCGCATGGACAGTGAGAGCC  
 TCTTCAAGGACGGGAAGCTGCTGCCTGCTATCACCATCCTGGGCTGCCGAGTCCGGATCCCTGCCGAGGT  
 GCTCATCTGAATCGATTGTTCTGCCACACAAGGAGCTGAGCCGAAGCTTACCAACCAGATCATCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200149 representing NM\_013335  
 Red=Cloning site Green=Tags(s)

MLKAVILIGGPQKGRFRPLSFEVPKPLFPVAGVPMIQHHIEACAQVPGMQEILLIGFYQPDEPLTQFLE  
 AAQQEFNLPVRYLQEFAPLGTGGGLYHFRDQILAGSPEAFFVLNADVCSDFPLSAMLEAHRQRHPFLLL  
 GTTANRTQSLNYGCIVENPQTHEVLHYVEKPSTFISDIINCGIYLF SPEALKPLRDVFORNQDGGQLEDS  
 PGLWPGAGTIRLEQDVF SALAGQGQIYVHLTDGIWSQIKSAGSALYASRLYL SRYQDTHPERLAKHTPGG  
 PWIRGNVYIHPTAKVAPSAVLGNVSIKGVTVGEGVRLRESIVLHGATLQEHTCVLHSIVGWGSTVGRW  
 ARVEGTPSDPNPNDRARMDSESLFKDGLLLPAITILGCRVRIPA EVLILNSIVLPHKELSR SFTNQIIL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013335

**ORF Size:** 1260 bp

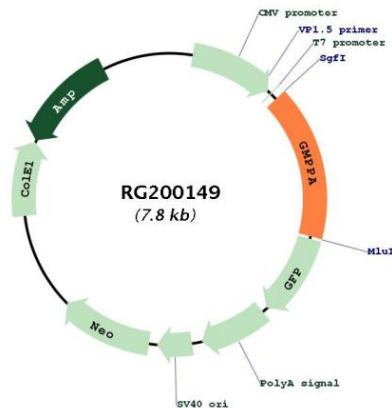
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](#)

**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\\_013335.4](#)
- RefSeq Size:** 1543 bp
- RefSeq ORF:** 1263 bp
- Locus ID:** 29926
- UniProt ID:** [Q96IJ6](#)
- Cytogenetics:** 2q35
- Domains:** hexapep, NTP\_transferase
- Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways
- Gene Summary:** 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]

**Product images:**



Circular map for RG200149