

Product datasheet for **RG212726**

GMPPA (NM_205847) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPPA (NM_205847) 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:	>RG212726 representing NM_205847 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCAAAGCGGTGATCCTGATTGGAGGCCCTCAAAGGGAACCTCGCTCAGACCTTTGTCTTTGAGG
TGCCCAAACCATTTCTTCTGTGGCAGGGGTCCCTATGATCCAACACCATTGAAGCCTGTGCCAGGT
CCCTGGAATGCAGGAGATTCTGCTCATTGGCTTCTACCAACCTGATGAGCCCTCACCCAGTTCTAGAA
GCCGCCAGCAGGAGTTAACCTTCCAGTCAGGTACCTGCAGGAATTTGCCCCCTAGGCACAGGGGGTG
GTCTTTACCATTTTCGAGACCAGATCCTGGCTGGGAGCCCGAGGCATTCTTCGTGCTCAATGCTGATGT
CTGCTCCGACTTCCCCTTGAGTGTATGTTGGAAGCCACCGACGCCAGGTCACCCCTTTCTACTCCTT
GGCACTACGGCTAACAGGACGCAATCCCTCAACTACGGCTGCATCGTTGAGAATCCACAGACACACGAGG
TATTGCACTATGTGGAGAAACCCAGCACATTTATCAGTGACATCAACTGCGGCATCTACCTCTTTTC
TCCTGAAGCCTTGAAGCCTCTTCGGGATGTCTCCAGCGTAATCAGCAGGATGGGCAATTGGAGGACTCA
CCAGGCTTGTGGCCAGGGGCAGGTACCATCCGCTAGAGCAGGATGTGTTTTAGCCCTGGCAGGGCAGG
GCCAGATATACGTGCATCTCACTGATGGTATCTGGAGTCAGATCAAGTCCGAGGTTCCAGCCCTACGC
CTCCCCTCTACCTGAGCCGATACCAGGACACTACCCAGAACGGCTGGCCAAGCACACCCAGGGGGC
CCATGGATCCGAGGGAATGTGTACATCCACCCGACCGCAAGGTGGCCCTCGGCTGTGCTGGGCCCA
ACGTCTCCATCGGGAAGGGGTGACCGTGGGTGAGGGTGTGCGGCTCCGGGAGAGCATCGTCTCCATGG
AGCCACTTTGCAGGAGCACACGTGTGTTCTGCATAGCATCGTGGGCTGGGGGAGCACCGTGGGACGCTGG
GCCCGCTGGAGGTTACCCAGTGACCCTAACCCCAACGATCCCGAGCCCGCATGGACAGTGAGAGCC
TCTTCAAGGACGGGAAGCTGCTGCCTGCTATCACCATCCTGGGCTGCCGAGTCCGGATCCCTGCCGAGGT
GCTCATCTGAATCGATTGTTCTGCCACACAAGGAGCTGAGCCGAAGCTTACCAACCAGATCATCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212726 representing NM_205847
 Red=Cloning site Green=Tags(s)

MLKAVILIGGPQKGRFRPLSFEVPKPLFPVAGVPMIQHHIEACAQVPGMQEILLIGFYQPDEPLTQFLE
 AAQQEFNLPVRYLQEFAPLGTGGGLYHFRDQILAGSPEAFFVLNADVCSDFPLSAMLEAHRQRHPFLLL
 GTTANRTQSLNYGCIVENPQTHEVLHYVEKPSTFISDIINCGIYLF SPEALKPLRDVFORNQDGGQLEDS
 PGLWPGAGTIRLEQDVF SALAGQGQIYVHLTDGIWSQIKSAGSALYASRLYL SRYQDTHPERLAKHTPPG
 PWIRGNVYIHPTAKVAPSAVLGNVSIKGVTVGEGVRLRESIVLHGATLQEHTCVLHSIVGWGSTVGRW
 ARVEGTPSDPNPNDRARMDSESLFKDGKLLPATILGCRVRIPA EVLILNSIVLPHKELSR SFTNQIIL

TRTRPLE - GFP Tag - V

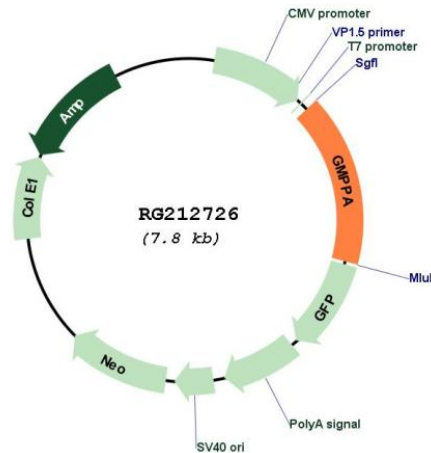
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_205847

ORF Size:	1260 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:	<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:	NM_205847.3
RefSeq Size:	1880 bp
RefSeq ORF:	1263 bp
Locus ID:	29926
UniProt ID:	Q96IJ6
Cytogenetics:	2q35
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]