

## Product datasheet for **RG200186**

### GMPPB (NM\_021971) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GMPPB (NM_021971) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GMPPB
Synonyms:	LGMDR19; MDDGA14; MDDGB14; MDDGC14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200186 representing NM_021971 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGCACTGATCTTAGTGGGGGCTATGGGACGCGGCTACGGCCGCTGACGCTGAGCACCCGAAGC  
CACTGGTGGACTTCTGCAATAAGCCCATCTTGTGCACCAAGTGGAGGCGCTAGCCGCGGAGGCGTGGA  
CCACGTGATCCTGGCCGTGAGCTACATGTCGACAGGTGCTGGAGAAGGAAATGAAGGCACAGGAGCAGAGG  
CTGGGAATCCGAATCTCCATGTCCCATGAAGAGGAGCCTTTGGGACAGCTGGGCCCTGGCGCTGGCC  
GTGACCTACTCTGAGACTGCAGACCCTTCTCGTCCTCAACAGTGACGTGATCTGCGATTTCCCTT  
CCAAGCCATGGTGCAGTTCACCGGCACCATGGCCAGGAGGGCTCCATCCTGGTGACCAAGTGGAGGAA  
CCCTCCAAGTACGGTGTGGTGTGTGAGGCTGACACAGGCCGATTACCGGTTCTGGAGAAGCCAC  
AGGTGTTTGTGTCCAATAAGATCAACGCAGGCATGTACATCCTGAGCCCTGCAGTGTGCGGCGCATCCA  
GCTGCAGCCTACGTCCATTGAGAAGGAGGTCTTCCCCATTATGGCCAAGGAGGGGAGCTATATGCCATG  
GAGTTACAGGGCTTCTGGATGGACATTGGGACGCCAAGGACTTCTCACTGGCATGTGCCTTCTCTGC  
AGTCACTGAGGCAGAAGCAGCCTGAGCGGCTGTGCTCAGGCCCTGGCATTGTGGCAACGTGCTGGTGGA  
CCCAAGTGCCCGCATCGGCCAGAAGTGCAGCATTGGCCCAATGTGAGCCTGGGACCTGGCGTGGTGGTC  
GAAGATGGTGTGTATCCGGCGGTGCACGGTGTGCGGGATGCCGGATCCGTTCCATTCTGGCTTG  
AGTCCTGCATTGTGGCTGGCGCTGCCGCGTGGGTGAGTGGGTACGCATGGAGAACGTGACAGTGCCTGGG  
TGAGGACGTCATAGTTAATGATGAGCTCTACCTCAACGGAGCCAGCGTGTGCCCCACAAGTCTATTGGC  
GAGTCAGTGCCAGAGCCTCGTATCATCATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200186 representing NM\_021971  
 Red=Cloning site Green=Tags(s)

MKALILVGGYGTRLRPLTLSTPKPLVDFCNKPILLHQVEALAAAGVDHVILAVSYMSQVLEKEMKAQEQR  
 LGIRISMSHEEEPLGTAGPLALARDLLSETADPFFVLNSDVICDFPFQAMVQFHRHHGQEGSILVTKVEE  
 PSKYGVVVCEADTGRIHRFVEKPVFVSNKINAGMYILSPAFLRRIQLQPTSIEKEVFPIMAKEGQLYAM  
 ELQGFWMDIGQPKDFLTGMCLFLQSLRQKQPERLCSGPGIVGNVLVDP SARIGQNC SIGPNVSLGPGVVV  
 EDGVCIRRCTVLRDARIRSHSWLESCIVGWRCRVGQWVRMENVTLGEDVIVNDELYLNGASVLPKHSIG  
 ESVPEPRIIM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021971

**ORF Size:** 1080 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:**

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\\_021971.2](#)

**RefSeq Size:** 1583 bp

**RefSeq ORF:** 1083 bp

**Locus ID:** 29925

**UniProt ID:** [Q9Y5P6](#)

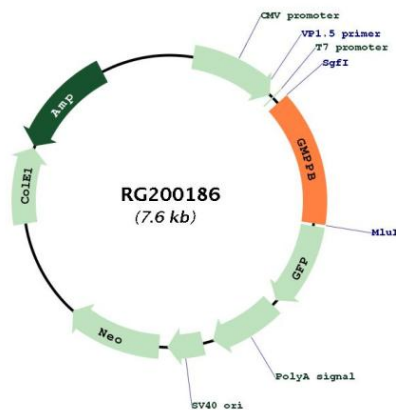
**Cytogenetics:** 3p21.31

**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. The encoded protein catalyzes the conversion of mannose-1-phosphate and GTP to GDP-mannose, a reaction involved in the production of N-linked oligosaccharides. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2009]

### Product images:



Circular map for RG200186