

## Product datasheet for **MG223549**

### **Gpm6b (NM\_001177957) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gpm6b (NM\_001177957) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gpm6b  
**Synonyms:** A1593561; Gpm6; M6B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223549 representing NM\_001177957  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCCAGCCATGGAACTGCAGCCGAGGAAAATACTGAACAAAGCCAAGAGAGAAAAGTGAACAGCA  
GAGCTGAAATGGAAATTGGCAGGTACCACTGGATGTACCCAGGCTCAAAGAACCATCAGTACCGTCTGT  
GCCAACCTGGGGACAGGGCTGGCCCCTTGAGCAGTCCAGTTGCTTGAATGCTGCATCAAGTGTCTG  
GGAGGAGTCCCTATGCCTCCCTGGTGGCCACCATCCTATGTTTCTCTGGAGTGGCCTTGTCTGTGGCT  
GTGGGCATGTGGCTCTTGACGGCACCGTGGCAATCTTGAGCAACACTTCTCCACCAACACCAGTGACCA  
TGCTTGTCTGAGTGAAGTATCAACTGATGCAGTATGTTATCTATGGAATCGCCTCTTTTCTTCTCTG  
TATGGCATCATTCTTCTGGCAGAAGGCTTCTACACCACAAGTGCAGTGAAGAGCTGCACGGTGAAGTTA  
AAACAACTGCCTGTGGCCGATGCATCAGTGAATGTTTCGTGTTCTCACCTATGTGCTGGGAGTGGCCTG  
GCTGGGTGTGTTCCGGCTTTCCGCAGTGCCAGTGTGTTATGTTCTACAACATCTGGTCAACCTGTGAAGTC  
ATCAAGTCCCACAAAGCAACGGGACCTCGGTGTGGAGCAGATCTGTGTGGATGCCGGAATATGGTA  
TCATTCTTGAATGCTTTCCAGGCAAATCTGTGGCTCGCCTTGGAGAACATCTGCAACACGAATGA  
GTTCTACATGCTCATCACCTGTTTCATTGTGGCTTGTGCTGGAGCTGGTCCACCGTCATTGCCCTGCTG  
ATCTACATGATGGCTACTACATAACTATGCGGTTTTGAAGTTAAGAGTCGGGAAGACTGCTGCACTA  
AGTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223549 representing NM\_001177957  
 Red=Cloning site Green=Tags(s)

MKPAMETAAEENTEQSQRKVNRAEMEIGRYHWMYPGSKNHQYRPVPTLGDRAGPLSSPGCFECCIKCL  
 GGVPYASLVATILCFSGVALFCGCGHVALAGTVAILEQHFSTNTSDHALLSEVIQLMQYVIYGIASFFFL  
 YGIILLAEGFYTTSAVKELHGEFKTTACGRICISGMFVFLTYVLGVAWLVFVGFSAVPVFMFYNIWSTCEV  
 IKSPQSNGTSGVEQICVDVRQYGIIPWNAFFPGKICGSALENICNTNEFYMSYHLFIVACAGAGATVIALL  
 IYMMATTYNYAVLKFKSREDCCTKF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001177957

**ORF Size:** 915 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\\_001177957.1](#), [NP\\_001171428.1](#)

**RefSeq Size:** 3478 bp

**RefSeq ORF:** 918 bp

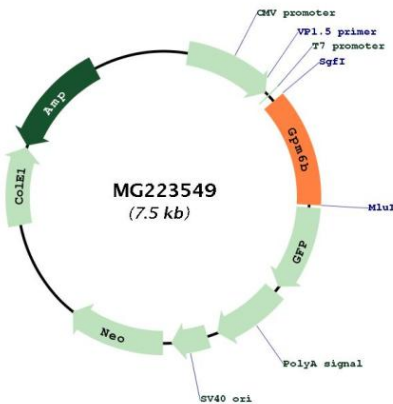
**Locus ID:** 14758

**UniProt ID:** [P35803](#)

**Cytogenetics:** X F5

**Gene Summary:** May be involved in neural development. Involved in regulation of osteoblast function and bone formation. Involved in matrix vesicle release by osteoblasts; this function seems to involve maintenance of the actin cytoskeleton. May be involved in cellular trafficking of SERT and thereby in regulation of serotonin uptake.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG223549