

## Product datasheet for MR223549

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

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Gpm6b (NM\_001177957) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Gpm6b  
 Synonyms: A1593561; Gpm6; M6B  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR223549 representing NM\_001177957  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGAAGCCAGCCATGGAACTGCAGCCGAGGAAAATACTGAACAAAGCCAAGAGAGAAAAGTGAACAGCA  
 GAGCTGAAATGGAAATTGGCAGTACCCTGGATGTACCCAGGCTCAAAGAACCATCAGTACCGTCTGT  
 GCCAACCTGGGGACAGGGCTGGCCCTTGAGCAGTCCAGTTGCTTGAATGCTGCATCAAGTGTCTG  
 GGAGGAGTCCCTATGCCTCCCTGGTGGCCACCATCCTATGTTTCTCTGGAGTGGCCTTGTCTGTGGCT  
 GTGGGCATGTGGCTTTGCAGGCACCGTGGCAATCCTTGAGCAACACTTCTCCACCAACACCAGTGACCA  
 TGCTTGTGCTGAGTGAAGTATCAACTGATGCAGTATGTTATCTATGGAATCGCCTCTTTTCTTCTCTG  
 TATGGCATCATTCTTCTGGCAGAAGGCTTCTACACCACAAGTGCAGTGAAGAGCTGCACGGTGAAGTTA  
 AAACAACCTGCCTGTGGCCGATGCATCAGTGAATGTTCTGTTTCTCACCTATGTGCTGGGAGTGGCCTG  
 GCTGGGTGTGTTCCGGCTTTCCGAGTGCCAGTGTGTTATGTTCTACAACATCTGGTCAACCTGTGAAGTC  
 ATCAAGTCCCAACAAAGCAACGGGACCTCGGTGTGGAGCAGATCTGTGTGGATGCCGGAATATGGTA  
 TCATTCTTGAATGCTTTCCAGGCAAAATCTGTGGCTCGGCCCTGGAGAACATCTGCAACACGAATGA  
 GTTCTACATGCTCATCACCTGTTTATTGTGGCTTGTGCTGGAGCTGGTCCACCGTCATTGCCCTGCTG  
 ATCTACATGATGGCTACTACATAAATATGCGGTTTTGAAGTTAAGAGTCGGGAAGACTGCTGCACTA  
 AGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223549 representing NM\_001177957  
Red=Cloning site Green=Tags(s)

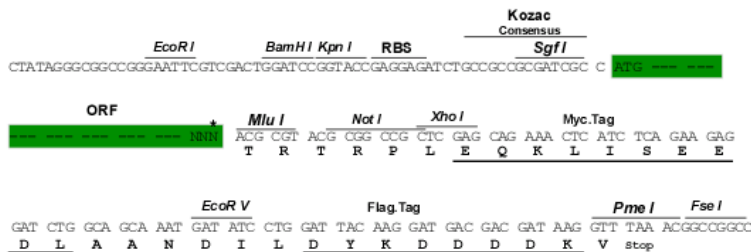
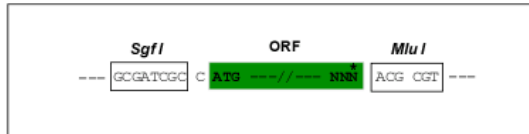
MKPAMETAAEENTEQSQRKVNRAEMEIGRYHWMYPGSKNHQYRPVPTLGDRAGPLSSPGCFECCIKCL  
 GGVPYASLVATILCFSGVALFCGCGHVALAGTVAILEQHFSTNTSDHALLSEVIQLMQYVIYGIASFFFL  
 YGIILLAEGFYTTSAVKELHGEFKTTACGRCISGMFVFLTYVLGVAWLGVFGFSAVPVFMFYNIWSTCEV  
 IKSPQSNGTSGVEQICVDVRYGIIPWNAFPGKICGSALENICNTNEFYMSYHLFIVACAGAGATVIALL  
 IYMMATTYNYAVLKFKSREDCCTKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

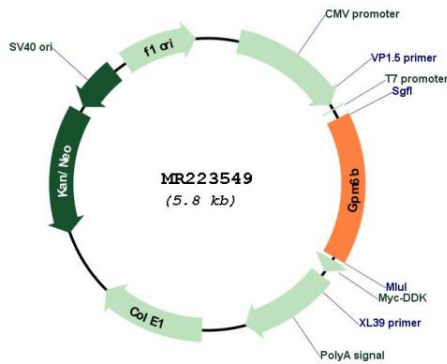
**UniProt ID:** [P35803](#)

**Cytogenetics:** X F5

**MW:** 34 kDa

**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 MR223549