

Product datasheet for **MG224363**

Gpm6b (NM_001177955) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gpm6b (NM_001177955) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gpm6b
Synonyms: AI593561; Gpm6; M6B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224363 representing NM_001177955
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCCAGCCATGGAACTGCAGCCGAGGAAAATACTGAACAAAGCCAAGAGAGAAAAGTGAACAGCA
 GAGCTGAAATGGAAATTGGCAGGTACCACTGGATGTACCCAGGCTCAAAGAACCATCAGTACCGTCTGT
 GCCAACCTGGGGACAGGGCTGGCCCCTTGAGCAGTCCAGGTTGCTTGAATGTCATCAAGTGTCTG
 GGAGGAGTCCCTATGCCTCCCTGGTGGCCACCATCCTATGTTTCTCTGGAGTGGCCTTGTCTGTGGCT
 GTGGGCATGTGGCTCTTGACGGACCGTGGCAATCTTGAGCAACACTTCTCCACCAACACCAGTGACCA
 TGCTTGTGCTGAGTGAAGTGATCCAAGTATGATGAGTATGTTATCTATGGAATCGCCTCCTTTTTCTTCTCTG
 TATGGCATCATTCTTCTGGCAGAAGGCTTCTACACCACAAGTGCAGTGAAGAGCTGCACGGTGAAGTTTA
 AAACAAGTGCCTGTGGCCGATGCATCAGTGAATGTTCTGTTTCTCACCTATGTGCTGGGAGTGGCCTG
 GCTGGGTGTGTTCCGGCTTTCCGAGTGCCAGTGTGTTATGTTCTACAACATCTGGTCAACCTGTGAAGTC
 ATCAAGTCCCACAAAGCAACGGGACCTCGGTGTGGAGCAGATCTGTGTGGATGCCGGAATATGGTA
 TCATTCTTGGAAATGCTTCCAGGCAAAATCTGTGGCTCGGCCTGGAGAACATCTGCAACACGAATGA
 GTTCTACATGTCTATCACCTGTTCAATTGTGGCTTGTGCTGGAGCTGGTCCACCGTCATTGCCCTGATC
 CACTTCCCTCATGATACTGCTTCTAACTGGGCTTACTTAAAGGATGCAAGCAAAATGCAGGCTTACCAGG
 ATATCAAAGCAAAGGAAGAGCAGGAAGTCAAGATATCCAGTCTCGCTCAAAGAACAACCAATTCTTA
 CACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224363 representing NM_001177955
 Red=Cloning site Green=Tags(s)

MKPAMETAAEENTEQSQRKVNRAEMEIGRYHWMYPGSKNHQYRPVPTLGDRAGPLSSPGCFECCIKCL
 GGVPYASLVATILCFSGVALFCGCGHVALAGTVAILEQHFSTNTSDHALLSEVIQLMQYVIYGIASFFFL
 YGIILLAEFGYTTSAVKELHGEFKTTACGRICISGMFVFLTYVLGVAWLVGFGSAVPVFMFYNIWSTCEV
 IKSPQSNGTSGVEQICVDVRQYGIIPWNAFPGKICGSALENICNTNEFYMSYHLFIVACAGAGATVIALI
 HFLMILSSNWAYLKDASKMQAYQDIKAKEEQELQDIQSRSEQLNSYT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177955

ORF Size: 984 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_001177955.1](#), [NP_001171426.1](#)

RefSeq Size: 3387 bp

RefSeq ORF: 987 bp

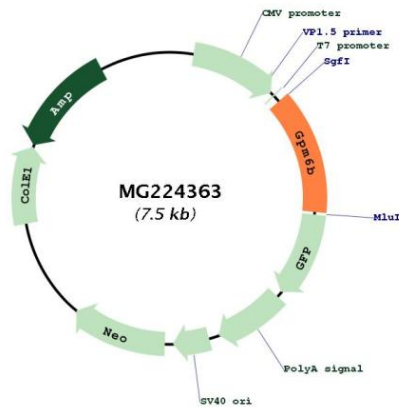
Locus ID: 14758

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 MG224363