

## Product datasheet for **MG224395**

### Gpm6b (NM\_023122) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpm6b (NM_023122) 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:	>MG224395 representing NM_023122 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGGTTGCTTCGAATGCTGCATCAAGTGTCTGGGAGGAGTTCCTATGCCTCCCTGGTGGCCACCATCC  
TATGTTTCTCTGGAGTGGCCTTGTCTGTGGCTGTGGGCATGTGGCTCTGCAGGCACCGTGCCAATTCT  
TGAGCAACACTTCTCCACCAACACCAGTGACCATGCCTTGCTGAGTGAAGTGATCCAACATGATGCAGTAT  
GTTATCTATGGAATCGCCTCCTTTTCTCCTGTATGGCATATTCTTCTGGCAGAAGGCTTCTACACCA  
CAAGTGCAGTGAAGAGCTGCACGGTGAAGTAAAACAACCTGCCTGTGGCCGATGCATCAGTGAATGTT  
CGTGTTCCCTCACCTATGTGCTGGGAGTGGCCTGGCTGGGTGTGTTTCGGCTTTCCGAGTGCCAGTGTTT  
ATGTTCTACAACATCTGGTCAACCTGTGAAGTCATCAAGTCCCCACAAAGCAACGGGACCTCGGGTGTGG  
AGCAGATCTGTGTGGATGTCCGGAATATGGTATCATTCTTGAATGCTTTCCAGGCAAAATCTGTGG  
CTCGGCCCTGGAGAACATCTGCAACACGAATGAGTTCTACATGCCTATCACCTGTTCAATTGTGGCTGT  
GCTGGAGCTGGTCCACCGTCATTGCCCTGATCCAATTCTCATGATACTGTCTTCTAACTGGGCTTACT  
TAAAGGATGCAAGCAAAATGCAGGCTTACCAGGATCAAAGCAAAGGAAGAGCAGGAACGCAAGATAT  
CCAGTCTCGCTCAAAGAACAACCAATTCTTACACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224395 representing NM\_023122  
 Red=Cloning site Green=Tags(s)

MGCFECCIKCLGGVPIASLVATILCFSGVALFCGCGHVALAGTVAILEQHFSTNTSDHALLSEVIQLMQY  
 VIYGIASFFFLYGIILLAEFGYTTSAVKELHGEFKTTACGRICSGMFVFLTYVLGVAWLGVFGSAVPVF  
 MFYNIWSTCEVIKSPQSNGTSGVEQICVDVRYGIIPWNAFPGKICGSALENICNTNEFYMSYHLFIVAC  
 AGAGATVIALIHFLMILSSNWAYLKDASKMQAYQDIKAKKEEQELQDIQRSKEQLNSYT

TRTRPLE - GFP Tag - V

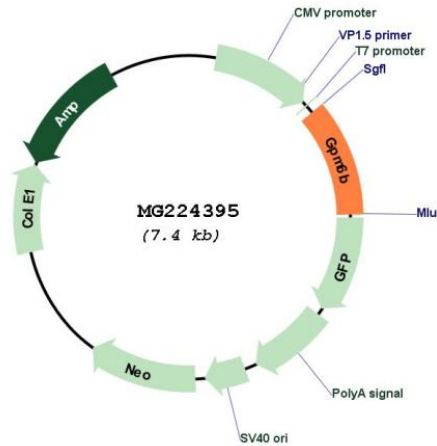
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_023122

**ORF Size:** 807 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_023122.3</a> , <a href="#">NP_075611.1</a>
<b>RefSeq Size:</b>	2932 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	14758
<b>UniProt ID:</b>	<a href="#">P35803</a>
<b>Cytogenetics:</b>	X F5
<b>Gene Summary:</b>	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]