

Product datasheet for **RG214192**

GPM6B (NM_001001995) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPM6B (NM_001001995) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPM6B
Synonyms:	M6B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214192 representing NM_001001995 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCCAGCCATGGAACTGCAGCCGAGGAAAATACTGAACAAAGCCAAGAGAGAAAAGTGAACAGCA
GAGCTGAAATGGAAATTGGCAGGTACCACTGGATGTACCCAGGCTCAAAGAACCACCACTACCATCCCGT
GCCAACCTGGGGACAGGGCTAGCCCCTTGAGCAGTCCAGGCTGCTTTGAATGTCATCAAGTGTCTG
GGAGGAGTCCCCTACGCCTCCCTGGTGGCCACCATCCTCTGCTTCTCCGGGTGGCCTTATTCTGCGGT
GTGGGCATGTGGCTCTCGCAGGCACCGTGGCGATTCTTGAGCAACACTTCTCCACCAACGCCAGTGACCA
TGCTTGTGCTGAGCGAGGTGATACAACTGATGCAGTATGTCATCTATGGAATTGCGTCTTTTTCTTCTTG
TATGGGATCATTCTGTTGGCAGAAGGCTTTTACACCACAAGTGCAGTGAAGAAGTGCACGGTGAGTTTA
AAACAACCGCTTGTGGCCGATGCATCAGTGAATGTTTCGTTTTCTCACCTATGTGCTTGGAGTGGCCTG
GCTGGGTGTGTTGGTTTCTCAGCGGTGCCCGTGTATGTTCTACAACATATGGTCAACTTGTGAAGTC
ATCAAGTACCGCAGACCAACGGGACCACGGGTGTGGAGCAGATCTGTGTGGATATCCGACAATACGGTA
TCATTCTTGGAAATGCTTTCCCGGAAAAATATGTGGCTCTGCCCTGGAGAACATCTGCAACACAAAACGA
GTTCTACATGTCTATCACCTGTTCAATTGTGGCTGTGCAGGAGCTGGTGCCACCGTCATTGCCCTGATC
CACTTCTCATGATACTGTCTTAACTGGGCTTACTTAAAGGATGCGAGCAAAATGCAGGCTTACCAGG
ATATCAAAGCAAAGGAAGAACAGGAAGTCAAGATATCCAGTCTCGGTCAAAGAACAACCAATTCTTA
CACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214192 representing NM_001001995
Red=Cloning site Green=Tags(s)

MKPAMETAAEENTEQSQRKVNRAEMEIGRYHWMYPGSKNHQYHPVPTLGDRASPLSSPGCFECCIKCL
 GGVPYASLVATILCFSGVALFCGCGHVALAGTVAILEQHFSTNASDHALLSEVIQLMQYVIYGIASFFFL
 YGIILLAEGFYTTSAVKELHGEFKTTACGRICISGMFVFLTYVLGVAWLGVFGSAVPVFMFYNIWSTCEV
 IKSPQTNGTTGVEQICVDIRQYGIIPWNAFPKICGSALENICNTNEFYMSYHLFIVACAGAGATVIALI
 HFLMILSSNWAYLKDASKMQAYQDIKAKEEQELQDIQSRSEQLNSYT

TRTRPLE - GFP Tag - V

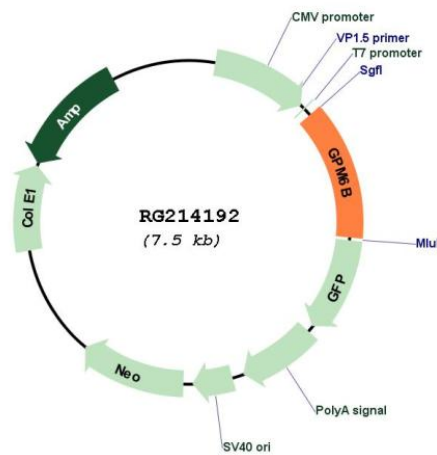
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001001995

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:	<ol style="list-style-type: none">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_001001995.3
RefSeq Size:	3219 bp
RefSeq ORF:	987 bp
Locus ID:	2824
UniProt ID:	Q13491
Cytogenetics:	Xp22.2
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a membrane glycoprotein that belongs to the proteolipid protein family. Proteolipid protein family members are expressed in most brain regions and are thought to be involved in cellular housekeeping functions such as membrane trafficking and cell-to-cell communication. This protein may also be involved in osteoblast differentiation. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are located on chromosomes Y and 22. [provided by RefSeq, Jan 2016]