

## Product datasheet for **SC100405**

### **GPM6B (NM\_005278) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPM6B (NM_005278) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPM6B
Synonyms:	M6B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005278, the custom clone sequence may differ by one or more nucleotides

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ATGAAGCCAGCCATGGAACTGCAGCCGAGGAAAATACTGAACAAAGCCAAGAGAGAAAAGGCTGCTTTG
AATGCTGCATCAAGTGTCTGGGAGGAGTCCCCTACGCCTCCCTGGTGGCCACCATCCTCTGCTTCTCCGG
GGTGGCCTTATTCTGCGGCTGTGGGCATGTGGCTCTCGCAGGCACCGTGGCGATTCTTGAGCAACACTTC
TCCACCAACGCCAGTGACCATGCCTTGCTGAGCGAGGTGATACTGATGCAGTATGCATCTATGGAA
TTGCGTCCTTTTCTTCTTGTATGGGATCATTCTGTTGGCAGAAGGCTTTTACACCACAAGTGCAGTGAA
AGAAGTGCACGGTGAGTTTAAAACAACCGCTTGTGGCCGATGCATCAGTGAATGTTTCGTTTTCTCACC
TATGTGCTTGGAGTGGCCTGGCTGGGTGTGTTTGGTTTCTCAGCGGTGCCGTGTTTATGTTCTACAACA
TATGGTCAACTTGTGAAGTCATCAAGTCAACCGCAGACCAACGGGACCACGGGTGTGGAGCAGATCTGTG
GGATATCCGACAATACGGTATCATTCTTGAATGCTTTCCCGGAAAAATATGTGGCTCTGCCCTGGAG
AACATCTGCAACACAAACGAGTTCTACATGTCCTATCACCTGTTTATTGTTGGCCTGTGCAGGAGCTGGT
CCACCGTCATTGCCCTGCTGATCTACATGATGGCTACTACATATAACTATGCGGTTTTGAAGTTAAGAG
TCGGGAAGATTGCTGCACTAAATTCTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005278 unedited ACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAAGACTTTTGCATCTTGGAAAGG GACTGTAATCTACTGTAGTGAAGAACAGAGCCTCTCAATCAGACGGGTGTAATAAGAGA CGGAGGGGAGTCCAAAAGAAAAGGAAGAGGAGGAAAAACAAGTGTGTGTTGGGGGAACA GGGGGAAAAGCATT TTTGGTGGATGGTATGAAGCCAGCCATGGAACTGCAGCCGAGGAA AATACTGAACAAAGCCAAGAGAGAAAAGCTGCTTTGAATGCTGCATCAAGTGTCTGGGA GGAGTCCCCTACGCCTCCCTGGTGGCCACCATCCTCTGCTTCTCCGGGGTGGCCTTATTC TGCGGCTGTGGCATGTGGCTCTCGCAGGCACCGTGGCGATTCTTGAGCAACACTTCTCC ACCAACGCCAGTGACCATGCCTTCTGAGCGAGGTGATACAACATGATGCAGTATGCATC TATGGAATTGCGTCCTTTTCTTCTTGTATGGGATCATTCTGTTGGCAGAAGGCTTTTAC ACCACAAGTGCAGTGAAGAAGTGCACGGTGTGAGTTTAAAACAACCGCTTGTGGCCGATGC ATCAGTGGAAATGTTGTTTTCTCACCTATGTGCTTGGAGTGGCCTGGCTGGGTGTGTT GGTTTCTCAGCGGTGCCGTGTTTATGTTCTACAACATATGGTCAACTTGTGAAGTCATC AAGTCACCGCAGACCAACGGGACCACNGGGTGTGGAGCAGATCTGTGTGGATATCNGAC ATACGGTATCATTCTTGAATNNGCTTTCCCGANAATATGTGGCTCTGCCCTGNAACA TCTGCACANAAACGAGTTCTAATGTNCTACACCTGTCTTGTGCCTGTGCAGGACTGGT GCCACGTCAATGCCTGACCACTTCTCAGAACTGNCTTTACTGGGCTTACTTAAGGATGC AGCAATGCAGCTTACAGATT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005278
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_005278.3</a></u> , <u><a href="#">NP_005269.1</a></u>
<b>RefSeq Size:</b>	1679 bp
<b>RefSeq ORF:</b>	798 bp
<b>Locus ID:</b>	2824
<b>UniProt ID:</b>	<u><a href="#">Q13491</a></u>
<b>Cytogenetics:</b>	Xp22.2
<b>Domains:</b>	Myelin_PLP

**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]

**Transcript Variant:** This variant (3) lacks an exon in the 5' coding region and uses an alternate splice site in the 3' terminal exon compared to variant 1. This results in a shorter isoform (3) with a distinct C-terminus, compared to isoform 1. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.