

Product datasheet for **SC121456**

Neuronal membrane glycoprotein M6 a (GPM6A) (NM_201591) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuronal membrane glycoprotein M6 a (GPM6A) (NM_201591) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuronal membrane glycoprotein M6 a
Synonyms:	GPM6; M6A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_201591, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGAGAATATGGAAGAGGGACAGACACAAAAAGGGTGT TTTGAATGCTGTATCAAATGCCTGGGGG
GCATTCCCTATGCCTCTCTGATTGCCACCATCCTGCTCTATGCGGGTGTGCCCCTGTTCTGTGGCTGCGG
TCATGAAGCGCTTTCTGGAAGTGTCAACATTCTGCAAACCTACTTTGAGATGGCAAGAACTGCTGGAGAC
ACACTGGATGTTTTTACCATGATTGACATCTTTAAGTATGTGATCTACGGCATCGCAGCTGCGTTCTTTG
TGTATGGCATT TTTGCTGATGGTGAAGGTTTCTCACAACTGGGGCCATCAAAGATCTCTATGGGGATT
CAAAATCACCCTTGTGGCAGATGTGTGAGCGCTTGGTTCATTATGCTGACATATCTTTTCATGTTGCC
TGGCTGGGAGTCACGGCTTTCACCTCACTGCCAGTTTACATGTACTTCAATCTGTGGACCATCTGCCGGA
ACACCACATTAGTGGAGGAGCAAATCTCTGCTTGGACCTTCGTCAAGTTTGAATTGTGACAATTGGAGA
GGAAAAGAAAATTTGACTGTCTCTGAGAATTTCTTGAGGATGTGCGAATCTACTGAGCTGAACATGACC
TTCCACTTGTTTATTGTGGCACTTGTGGAGCTGGGGCAGCAGTCATTGCTATGGTTCACTACCTTATGG
TTCTGTCTGCCAACTGGGCTATGTGAAAGACGCTGCCGGATGCAGAAGTATGAAGACATCAAGTCGAA
GGAAGAGCAAGAGCTTCATGACATCCACTCTACTCGCTCAAAGAGCGGCTCAATGCATACACATAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_201591 unedited ACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGATCTAATTGAGCTTTTGATTAATTCGGTGTACCAGATTCTACTGAAGAAAGGTAGCCATGGAAGAGAATATGGAAGAGGGACAGACACAAAAAGGGTGTGTTTGAATGCTGTATCAAATGCCTGGGGGGCATTCCCTATGCCTCTCTGATTGCCACCATCTGCTCTATGCGGGTGTGCCCTGTTCTGTGGCTGCGGTCATGAAGCGCTTCTGGAAGTCAACATTCTGCAAACCTACTTTGAGATGGCAAGAAGTCTGGAGACACACTGGATGTTTTTACCATGATTGACATCTTTAAGTATGTGATCTACGGCATCGCAGCTGCGTTCTTTGTGTATGGCATTGCTGATGGTGAAGGTTTCTTCACAACTGGGCCATCAAAGATCTCTATGGGGATTTCAAATCACCACTTGTGGCAGATGTGTGAGCGCTTGGTTCAATATGCTGACATATCTTTTCATGTTGGCCTGACTGAGAGTCACGGCTTTACCTCACTGCCAGTTTACATGTAATCTGTGGACCATCTGCCGGAACACCACATTAGTGGAGGGAGCANATCTCTGCTGGACCTTCGTCAGTTTGAATTGTGACATTNGGAGAAGGAAAGAANATTGTAAGTCTCTGAGAATTCCTGAGGATGTGCGAATCTACTGAGCTGAACATGACCTTCCACTTNGTTATTGNGGCACTTCTGGAGCTGGGGCAGCAGNCATTGCTATGGNTCACTACCCTTATGGTTCTGCTGCCAACTGGGCCTATGTGAAAGACGCCTGCCGGATGCANAAGTTTGAAGAACTTCAGTTGAGGAAGAGCCAAGAGCTTCATGACATCCACTCTACTCGCTCCAAGAACGGCTAATAGCATACCCATAATG
Restriction Sites:	NotI-NotI
ACCN:	NM_201591
Insert Size:	2500 bp
OTI Disclaimer:	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).
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:	<u>NM_201591.1</u> , <u>NP_963885.1</u>
RefSeq Size:	3614 bp
RefSeq ORF:	837 bp
Locus ID:	2823
UniProt ID:	<u>P51674</u>
Cytogenetics:	4q34.2
Protein Families:	Transmembrane

Gene Summary:

Involved in neuronal differentiation, including differentiation and migration of neuronal stem cells. Plays a role in neuronal plasticity and is involved in neurite and filopodia outgrowth, filopodia motility and probably synapse formation. GPM6A-induced filopodia formation involves mitogen-activated protein kinase (MAPK) and Src signaling pathways. May be involved in neuronal NGF-dependent Ca(2+) influx. May be involved in regulation of endocytosis and intracellular trafficking of G-protein-coupled receptors (GPCRs); enhances internalization and recycling of mu-type opioid receptor.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1).