

## Product datasheet for **SC330715**

### Neuronal membrane glycoprotein M6 a (GPM6A) (NM\_001261448) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuronal membrane glycoprotein M6 a (GPM6A) (NM_001261448) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPM6A
Synonyms:	GPM6; M6A
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330715 representing NM_001261448. Blue=Insert sequence Red=Cloning site Green=Tag(s)

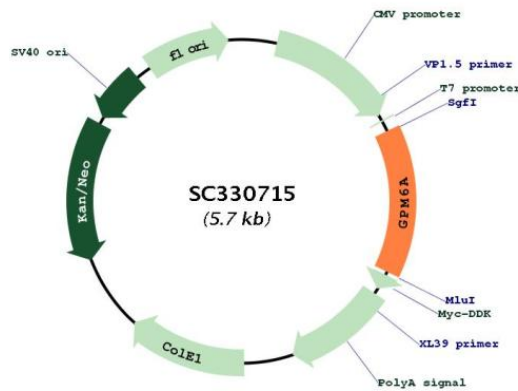
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ATGACAGACCTGGAAGGGTGTGTTTGAATGCTGTATCAAATGCCTGGGGGGCATTCCCTATGCCTCTCTG
ATTGCCACCATCCTGCTCTATGCGGGTGTGCCCTGTTCTGTGGCTGCGGTATGAAGCGCTTTCTGGA
ACTGTCAACATTCTGCAACCTACTTTGAGATGGCAAGAAGTCTGGAGACACACTGGATGTTTTTACC
ATGATTGACATCTTTAAGTATGTGATCTACGGCATCGCAGCTGCGTTCTTTGTGTATGGCATTGCTG
ATGGTGAAGGTTTCTTCACAACCTGGGGCCATCAAAGATCTCTATGGGGATTTCAAATCACCACCTGT
GGCAGATGTGTGAGCGCTTGGTTCATTATGCTGACATATCTTTTCATGTTGGCCTGGCTGGGAGTCACG
GCTTTCACCTCACTGCCAGTTTACATGACTTCAATCTGTGGACCATCTGCCGGAACACCACATTAGTG
GAGGGAGCAAATCTCTGCTTGGACCTTCGTCAGTTTGAATTGTGACAATTGGAGAGGAAAAGAAAATT
TGTAAGTGTCTCTGAGAATTTCTTGAGGATGTGCGAATCTACTGAGCTGAACATGACCTTCCACTGTTT
ATTGTGGCACTTGTGGAGCTGGGGCAGCAGTCATTGCTATGGTTCACCTTATGGTTCGTCTGCC
AACTGGGCCTATGTGAAAGACGCCTGCCGGATGCAGAAGTATGAAGACATCAAGTCGAAGGAGAGCAA
GAGCTTCATGACATCCACTCTACTCGCTCCAAAGAGCGGCTCAATGCATACACA
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Restriction Sites: Sgfl-MluI



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Plasmid Map:



ACCN: NM\_001261448

Insert Size: 816 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).

<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_001261448.1</a>
<b>RefSeq Size:</b>	3114 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	2823
<b>UniProt ID:</b>	<a href="#">P51674</a>
<b>Cytogenetics:</b>	4q34.2
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	30.4 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (4) is shorter and has a distinct N-terminus, compared to isoform 1.</p>