

## Product datasheet for RC232347

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuronal membrane glycoprotein M6 a (GPM6A) (NM_001261448) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuronal membrane glycoprotein M6 a
Synonyms:	GPM6; M6A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232347 representing NM_001261448 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGACCTGGAAGGGTGTGGTGAATGCTGTATCAAATGCCTGGGGGCATTCCCTATGCCTCTCTGA  
TTGCCACCATCCTGCTCTATGCGGGTGTGCCCTGTTCTGTGGCTGCGGTCATGAAGCGCTTTCTGGAAC  
TGCAACATTCTGCAACCTACTTTGAGATGGCAAGAAGTCTGGAGACACACTGGATGTTTTTACCATG  
ATTGACATCTTTAAGTATGTGATCTACGGCATCGCAGCTGCGTCTTTGTGTATGGCATTGTCTGATGG  
TGAAGGTTTCTCACAAGTGGGCCATCAAAGATCTCTATGGGGATTTCAAATCACCCTTGTGGCAG  
ATGTGTGAGCGCTTGTTTATTGCTGACATATCTTTTTCATGTTGGCCTGGCTGGGAGTACCGCTTTC  
ACCTCACTGCCAGTTTACATGTACTTCAATCTGTGGACCATCTGCCGGAACACCACATTAGTGGAGGGAG  
CAAATCTCTGCTTGGACCTTCGTGAGTTTGAATTTGTGACAATTGGAGAGGAAAAGAAAATTTGACTGT  
CTCTGAGAATTTCTTGAGGATGTGCGAATCTACTGAGCTGAACATGACCTTCCACTTGTTTATTGTGGCA  
CTTGCTGGAGCTGGGGCAGCAGTCATTGCTATGGTTCCTACTACCTTATGGTCTGTCTGCCAACTGGGCT  
ATGTGAAAGACGCTGCCGGATGCAGAAGTATGAAGACATCAAGTCAAGGAAGGCAAGAGCTTCATGA  
CATCCACTCTACTCGCTCAAAGAGCGGCTCAATGCATACACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232347 representing NM\_001261448  
Red=Cloning site Green=Tags(s)

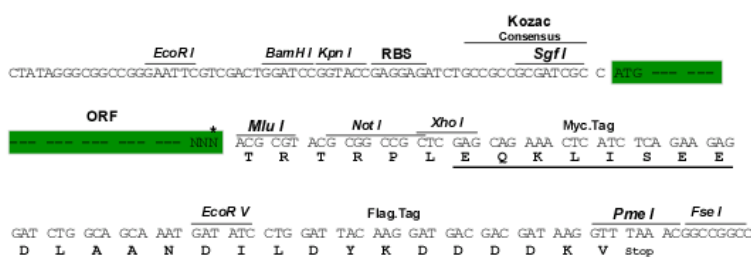
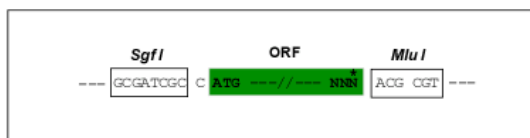
MTDLEGCFECCIKCLGGIPYASLIATILLYAGVALFCGCGHEALSGTVNILQTYFEMARTAGDTLDVFTM  
 IDIFKYVIYGIAAAFFVYGILLMVEGFFTTGAIKLDLYGDFKITTGRCVSAWFIMLTYFLMLAWLGVTAF  
 TSLPVYMYFNLWTICRNRTLVEGANLCLDLRQFGIVTIGEEKKICTVSENFMRMCESTELNMTFHLFIVA  
 LAGAGAAVIAMVHYLMVLSANWAYVKDACRMQKYEDIKSKEEQELHDIHSTRSKERLNAYT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_001261448

ORF Size: 813 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:**

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\\_001261448.1](#), [NP\\_001248377.1](#)

**RefSeq Size:** 3114 bp

**RefSeq ORF:** 816 bp

**Locus ID:** 2823

**UniProt ID:** [P51674](#)

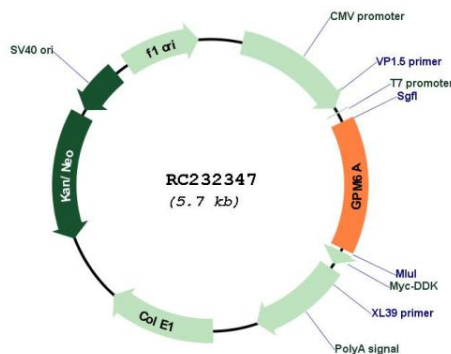
**Cytogenetics:** 4q34.2

**Protein Families:** Transmembrane

**MW:** 30.8 kDa

**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]

**Product images:**



Circular map for RC232347