

Product datasheet for RC213529

Neuronal membrane glycoprotein M6 a (GPM6A) (NM_201592) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuronal membrane glycoprotein M6 a (GPM6A) (NM_201592) 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:	>RC213529 representing NM_201592 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTGTGGTGAATGCTGTATCAAATGCCTGGGGGGCATTCCCTATGCCTCTCTGATTGCCACCATCC
TGCTCTATGCGGGTGTGCCCTGTTCTGTGGCTGCGGTCATGAAGCGCTTCTGGAAGTCAACATTCT
GCAAACCTACTTTGAGATGGCAAGAACTGCTGGAGACACTGGATGTTTTTACCATGATTGACATCTTT
AAGTATGTGATCTACGGCATCGCAGCTGCGTCTTTGTGTATGGCATTGCTGATGGTGAAGGTTTCT
TCACAAGTGGGGCCATCAAAGATCTCTATGGGGATTTCAAATCACCACCTGTGGCAGATGTGTGAGCGC
TTGGTTTATTATGCTGACATATCTTTTCATGTTGGCTGGCTGGGAGTACCGGCTTTCACCTCACTGCCA
GTTTACATGTACTTCAATCTGTGGACCATCTGCCGGAACACCACATTAGTGGAGGGAGCAAATCTCTGCT
TGGACCTTCGTCAGTTTGAATTGTGACAATTGGAGAGGAAAAGAAAATTTGACTGTCTCTGAGAATTT
CTTGAGGATGTGCGAATCTACTGAGCTGAACATGACCTTCCACTGTTTTATTGTGGCACTTGCTGGAGCT
GGGGCAGCAGTCATTGCTATGGTTCACTACCTTATGGTTCTGTCTGCCAACTGGGCTATGTGAAAGACG
CCTGCCGATGCAGAAGTATGAAGACATCAAGTCGAAGGAAGAGCAAGAGCTTATGACATCCACTCTAC
TCGCTCCAAAGAGCGGCTCAATGCATACACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_201592.2](#)

RefSeq Size: 2962 bp

RefSeq ORF: 804 bp

Locus ID: 2823

UniProt ID: [P51674](#)

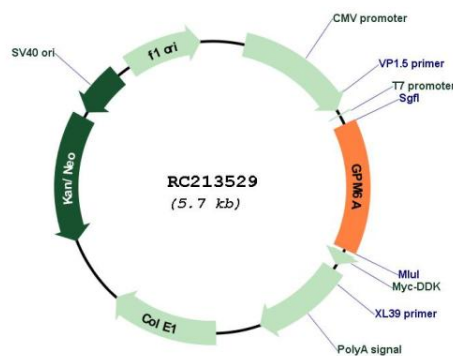
Cytogenetics: 4q34.2

Protein Families: Transmembrane

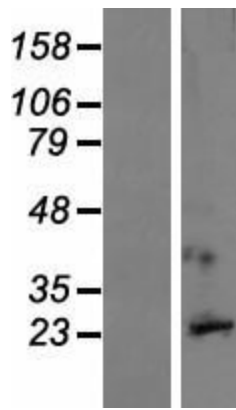
MW: 29.7 kDa

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]

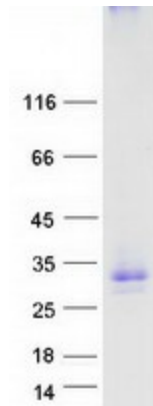
Product images:



Circular map for RC213529



Western blot validation of overexpression lysate (Cat# [LY404476]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213529 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPM6A protein (Cat# [TP313529]). The protein was produced from HEK293T cells transfected with GPM6A cDNA clone (Cat# RC213529) using MegaTran 2.0 (Cat# [TT210002]).