

Product datasheet for **MR209826**

Gpsm1 (BC071197) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpsm1 (BC071197) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpsm1
Synonyms:	1810037C22Rik; Ags3; AW107933
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209826 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGTAACTCCAGAGAAAGAGGATGGAGGCCTCCTGTCTAGAGCTGGCCCTGGAAGGGGAGCGGCTGT
GCAAGGCGGGGACTTCAAGGCAGGTGTGGCTTCTTCGAGGCTGCTGTGCAGGTGGGCACTGAGGACCT
GAAGACACTGAGTGCCATCTACAGCCAGCTGGGCAATGCCTACTTCTACCTGAAGGAGTATGCCCGGCC
CTGCGATTCCACAAACATGACTTGTGCTGGCAGGACCATTGGTGACCGCATGGGGGAGGCCAAGGCTA
GTGGGAACCTGGGCAACACACTCAAGGTCTAGGCCGATTTCGATGAGGCAATCGTCTGCTGCCAACGACA
CTTGACATTGCCAGGAGCAGGGGACAAGGTTGGGGAGGCGAGAGCACTCTACAACATTGAAATGTG
TACCACGCCAAGGGCAACAGCTTTCCTGGAATGCTGCACAGGACCCCGGCACCTGCCACCTGATGTCC
GCGAGACTGCACAGGGCCTCTGAGTTTTATGAGAGAACCTGTCTTTGGTGAAGGAACAGGCGACCG
GGCGGCCAGGGCAGGGCCTATGGCAACCTGGGTAAACCCCACTACCTACTGGGAACTTACAGGAGGCC
ACAACCTTCCACAAGAGCGCCTGGCCATCGCCAAGGAGTTTGGGGACAAGGCAGCTGAGCGGAGGGCCT
ACAGCAACCTGGGCAATGCTCACATCTTCTGGGGCGCTTTGATGTGGCTGCTGAACATTACAAGAGAC
GCTGCAGCTGTCTCGGCAGCTCCGGGACCAGGCAGTGGAGGCTCAGGCTTGTACAGCCTGGGCAACACC
TACACACTGCTACAGGACTACGAGCGTGTGCTGAGTACCACCTGCGGCACCTAGTCATTGCCAGGAGC
TGGCTGATAGGGTGGGAGAGGGCCGAGCATGCTGGAGCCTGGGGAACGCCTATGTGTCCATGGGGAGCCC
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AGGGGTCCAGGCAGGACTCGCTTCCCCTCCCCATGAGGAGCAGGAAGTACCAGGAAGTCCAGATGCCA
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AGTCGCATGGATGACCAGCGCTGTCCCCTGGAGGAAGGCCAGGCTGGGGCTGCTGAGGCCACAGCTGCC
CATCCGTGGAGGATAGAGCAGCTCAGTCTCCGTGACAGCTTACCACAGACAGAGGAGTTCTTTGACCT
CATTGCCAGCTCCAGAGCCGCCGGCTGGACGACCAGAGGGCTAGCGTAGGCAGCCTGCCTGGGCTACGC
ATCACCTCAACAATGTGGGGCACCTCCGAGGCGACGGGGACGCCAGGAGCCGGGGATGAGTTTTTCA
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CAGCGTGTGGACCTTGTGGGAGTCCAGAGCAAGAGGCCAGTGGGCTGCCTGATCCCCAGCAGCAGTGT
CACCGGTGCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209826 protein sequence
Red=Cloning site Green=Tags(s)

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MRNLQRKRMEASCLELALALEGERLCKAGDFKAGVAFFEAAVQVGTEDLKTLSAIYSQLGNAYFYLKEYARA
LQFHKHDLLLARTIGDRMGEAKASGNLNTLKVLRGFDEAIVCCQRHLDIAEQGDVGEARALYINIGNV
YHAKGKQLSWNAAQDPGHLPPDVRETLHRASEFYERNLSLVKELGDRAAQGRAYGNLGNTHYLLGNFTEA
TTFHKERLAIKEFGDKAAERRAYSNLGNAHIFLGRFDVAAEHYKKTLLSRQLRDQAVEAQACYSLGNT
YTLLQDYERAAEYHLRHLVIAQELADRVGEGRACWSLGNAYVSMGSPAQALTFAKKHLQISQEIHDRNGE
LTARMNIAHLQLALGRLTSPAAAEPDLAGYEAQGARPVRTQRLSAETWDLRLPLDREQNGETHHTGDW
RGPGRDPLPMRSRKYQEGPDAIERRPREGSHSPLDSADVRVQVVRTGIPRAPSSDEECFFDLLSKFQS
SRMDDQRCPLEEQAGAAEATAAPSVEDRAAQSSVTASPQTEEFFDLIASSQSRRLDDQRASVGLPGLR
ITLNNVGHRLRGDGAQEPGDEFFNMLIKYQSSRIDQRCPPDVLPRGPTMPDEDFSLIQRVQAKRMDE
QRVDLAGSPEQEASGLPDPQQCPPGAS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC071197

ORF Size: 1974 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: [BC071197](#), [AAH71197](#)

RefSeq Size: 3474 bp

RefSeq ORF: 1976 bp

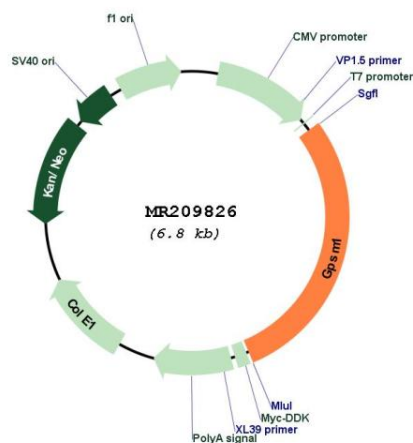
Locus ID: 67839

Cytogenetics: 2 A3

MW: 73 kDa

Gene Summary: Guanine nucleotide dissociation inhibitor (GDI) which functions as a receptor-independent activator of heterotrimeric G-protein signaling. Keeps G(i/o) alpha subunit in its GDP-bound form thus uncoupling heterotrimeric G-proteins signaling from G protein-coupled receptors. Controls spindle orientation and asymmetric cell fate of cerebral cortical progenitors. May also be involved in macroautophagy in intestinal cells. May play a role in drug addiction. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209826