

## Product datasheet for **MG209826**

### **Gpsm1 (BC071197) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Gpsm1 (BC071197) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | Gpsm1                                   |
| Synonyms:                 | 1810037C22Rik; Ags3; AW107933           |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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ORF Nucleotide  
Sequence:

>MG209826 representing BC071197  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCGTAACTCCAGAGAAAGAGGATGGAGGCCTCCTGTCTAGAGCTGGCCCTGGAAGGGGAGCGGCTGT  
GCAAGGCGGGGACTTCAAGGCAGGTGTGGCTTTCTTCGAGGCTGCTGTGCAGGTGGGCACTGAGGACCT  
GAAGACACTGAGTGCCATCTACAGCCAGCTGGGCAATGCCTACTTCTACCTGAAGGAGTATGCCCGGCC  
CTGCAGTTCACAAAATGACTTGTGCTGGCAGGACCATTGGTGACCGCATGGGGGAGGCCAAGGCTA  
GTGGGAACCTGGGCAACACTCAAGGTCTAGGCCGATTCGATGAGGCAATCGTCTGCTGCCAACGACA  
CTTGACATTGCCAGGAGCAGGGGACAAGGTTGGGGAGGCGAGAGCACTCTACAACATTGAAATGTG  
TACCACGCCAAGGGCAAACAGCTTTCCTGGAATGCTGCACAGGACCCCGGCACCTGCCACCTGATGTCC  
GCGAGACTGCACAGGGCCTCTGAGTTTTATGAGAGAACTGTCTTTGGTGAAGGAACAGGCGACCG  
GGCGGCCAGGGCAGGGCCTATGGCAACTGGGTAAACCCCACTACCTACTGGGAACTTACAGGAGGCC  
ACAACCTTCCACAAAGAGCGCCTGGCCATCGCCAAGGAGTTTGGGGACAAGGCAGCTGAGCGGAGGGCT  
ACAGCAACCTGGGCAATGCTCACATCTTCTGGGGCGCTTTGATGTGGCTGCTGAACATTACAAGAGAC  
GCTGCAGCTGTCTCGGCAGCTCCGGGACCAGGCAGTGGAGGCTCAGGCTTGTACAGCCTGGGCAACACC  
TACACTGTCTACAGGACTACGAGCGTGTCTGAGTACCACCTGCGGCACCTAGTCAATGCCAGGAGC  
TGGCTGATAGGGTGGGAGAGGGCCGAGCATGCTGGAGCCTGGGGAACGCCTATGTGTCCATGGGGAGCCC  
TGCACAGGCCCTGACCTTGGCAAGAAACATCTGCAGATCTCCAGGAGATTGGAGACCGAAACGGAGAA  
AGAACCCAGATCTGGCTGGCTATGAGGCACAAGGAGCAAGACCCAAACGGACACAGAGGCTGAGTGCCGA  
GACCTGGGACCTGCTGCGGCTCCCCCTGGACCGGAGCAGAATGGAGAGACCCACCACACAGGGGACTGG  
AGGGGTCCAGGCAGGACTCGCTTCCCCTCCCCATGAGGAGCAGGAAGTACCAGGAAGGTCCAGATGCCA  
TTGAGAGGAGACCCCGGAGGGTAGTCACTCTCCACTGGACAGTGTGATGTAAGGGTACAGGTGCCTCG  
TACGGGTATTCCAGGGCCCCGTCTTCTGACGAGGAGTGTCTTTGACCTGCTGAGTAAGTTCCAGAGC  
AGTCGATGGATGACCAGCGCTGTCCCCTGGAGGAAGGCCAGGCTGGGGCTGCTGAGGCCACAGCTGCC  
CATCCGTGGAGGATAGAGCAGCTCAGTCTCCGTGACAGCTTACCACAGACAGAGGAGTTCTTTGACCT  
CATTGCCAGCTCCAGAGCCCGGCTGGACGACCAGAGGGCTAGCGTAGGCAGCCTGCCTGGGCTACGC  
ATCACCTCAACAATGTGGGGCACCTCCGAGGCGACGGGGACGCCAGGAGCCGGGGATGAGTTTTTCA  
ACATGCTTATCAAATACCAGTCTCCAGGATTGATGACCAGCGCTGCCACCCCTGATGTGCTGCCCGG  
TGGCCCTACCATGCCTGATGAGGATTTCTCAGCCTTATCCAGAGGGTGCAGGCTAAGCGGATGGATGAG  
CAGCGTGTGGACCTGCTGGGAGTCCAGAGCAAGAGGCCAGTGGGCTGCCTGATCCCCAGCAGCAGTGT  
CACCGGTGCCAGC

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG209826 representing BC071197  
Red=Cloning site Green=Tags(s)

```
MRNLQRKRMEASCLELALALEGERLCKAGDFKAGVAFFEAAVQVGTEDLKTLSAIYSQLGNAYFYLKEYARA
LQFHKHDLLLARTIGDRMGEAKASGNLGNLTKVLGRFDEAIVCCQRHLDAIQEQGDKVGEARALYNIGNV
YHAKGKQLSWNAAQDPGHLPPDVRETLHRASEFYERNLSLVKELGDRAAQGRAYGNLGNTHYLLGNFTEA
TTFHKERLAIAKEFGDKAAERRAYSNLGNAHIFLGRFDVAAEHYKKTLLSRQLRDQAVEAQACYSLGNT
YTLLQDYERAAEYHLRHLVIAQELADRVGEGRACWSLGNAYVSMGSPAQALTFAKKHLQISQEIHDRNGE
LTARMNIAHLQLALGRLTSPAAAEPDLAGEAQAQGARPKRTQRLSAETWDLRLPLDREQNGETHHTGDW
RGPGRDLSLPLPMRSRKYQEGPDAIERRPREGSHSPLDSADVRVQVVRTGIPRAPSSDEECFFDLLSKFQS
SRMDDQRCPLEEQAGAAEATAAPSVEDRAAQSSVTASPQTEEFFDLIASSQSRRLDDQRASVGSPLGLR
ITLNNVGHRLRGDGAQEPGDEFFNMLIKYQSSRIDQRCPPDVLPRGPTMPDEDFSLIQRVQAKRMDE
QRVDLAGSPEQEASGLPDPQQQCPPGAS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC071197

**ORF Size:** 1976 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

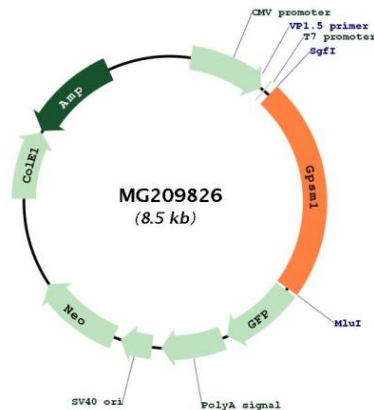
**RefSeq ORF:** 1976 bp

**Locus ID:** 67839

**Cytogenetics:** 2 A3

**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 MG209826