

## Product datasheet for **MC218392**

### **Gpsm1 (BC071197) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >BC071197  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGTAACTCCAGAGAAAGAGGATGGAGGCCTCTGTCTAGAGCTGGCCCTGGAAGGGGAGCGGCTGT  
 GCAAGGCGGGGACTTCAAGGCAGGTGTGGCTTTCTTCGAGGCTGCTGTGCAGGTGGCACTGAGGACCT  
 GAAGACTGAGTGCCATCTACAGCCAGCTGGCAATGCCTACTTCTACCTGAAGGAGTATGCCCGGCC  
 CTGCGATTCCACAAACATGACTTGTGCTGGCAGGACCATTGGTGACCGCATGGGGGAGGCCAAGGCTA  
 GTGGGAACCTGGCAACACACTCAAGGTCTAGGCCGATTCGATGAGGCAATCGTCTGCTGCCAACGACA  
 CTTGGACATTGCCAGGAGCAGGGGACAAGGTTGGGGAGGCGAGAGCACTCTACAACATTGAAATGTG  
 TACCACGCCAAGGGCAACAGCTTTCCTGGAATGCTGCACAGGACCCCGGCACCTGCCACCTGATGTCC  
 GCGAGACTGCACAGGGCCTCTGAGTTTTATGAGAGAACCTGTCTTTGGTGAAGGAACAGGCGACCG  
 GCGCGCCAGGGCAGGGCCTATGGCAACCTGGGTAAACCCCACTACCTACTGGGAACTTACAGGAGGCC  
 ACAACCTTCCACAAGAGCGCCTGGCCATCGCCAAGGAGTTTGGGGACAAGGCAGCTGAGCGGAGGGCCT  
 ACAGCAACCTGGCAATGCTCACATCTTCTTGGGGCGCTTTGATGTGGCTGCTGAACATTACAAGAAGAC  
 GCTGCAGCTGTCTCGGCAGCTCCGGGACCAGGCAGTGGAGGCTCAGGCTTGTACAGCCTGGGCAACACC  
 TACACTGTCTACAGGACTACGAGCGTGTCTGAGTACCACCTGCGGCACCTAGTCATTGCCAGGAGC  
 TGGCTGATAGGGTGGGAGAGGGCCGAGCATGCTGGAGCCTGGGGAACGCCTATGTGTCCATGGGGAGCCC  
 TGCACAGGCCCTTACCTTTGCCAAGAAACATCTGCAGATCTCCAGGAGATTGGAGACCGAAACGGAGAA  
 CTGACAGCCCGCATGAATATTGCCACCTGCAGCTGGCCCTGGGCCGCTGACTAGCCCAGCAGCAGCGG  
 AGAAGCCAGATCTGGCTGGCTATGAGGCACAAGGAGCAAGACCCAAACGGACACAGAGGCTGAGTGCCGA  
 GACCTGGGACCTGCTGCGGCTCCCCCTGGACCGGAGCAGAATGGAGAGACCCACCACACAGGGGACTGG  
 AGGGTCCAGGCAGGACTCGTTCCTCCCTCCCATGAGGAGCAGGAAGTACCAGGAAGTCCAGATGCCA  
 TTGAGAGGAGACCCCGGAGGGTAGTCACTCTCCACTGGACAGTGTGATGTAAGGGTACAGGTGCCTCG  
 TACGGGTATCCAGGGCCCCGCTTCTGACGAGGAGTGTCTTTGACCTGCTGAGTAAGTTCCAGAGC  
 AGTCGATGGATGACCAGCGTGTCCCCTGGAGGAAGGCCAGGCTGGGGCTGCTGAGGCCACAGCTGCC  
 CATCCGTGGAGGATAGAGCAGCTCAGTCTCCGTGACAGCTTACCACAGACAGAGGAGTCTTTGACCT  
 CATTGCCAGCTCCAGAGCCCGGCTGGACGACCAGAGGGCTAGCGTAGGCAGCCTGCCTGGGCTACGC  
 ATCACCTCAACAATGTGGGGCACCTCCGAGGCGACGGGACGCCAGGAGCCGGGGATGAGTTTTTCA  
 ACATGCTTATCAATACCAGTCTCCAGGATTGATGACCAGCGCTGCCACCCCTGATGTGCTGCCCCG  
 TGGCCCTACCATGCCTGATGAGGATTTCTCAGCCTTATCCAGAGGGTGCAGGCTAAGCGGATGGATGAG  
 CAGCGTGTGGACCTTGTGGGAGTCCAGAGCAAGAGGCCAGTGGGCTGCCTGATCCCCAGCAGCAGTGT  
 CACCGGTGCCAGCTAA

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** BC071197

**Insert Size:** 1977 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).

**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]