

Product datasheet for **MC228468**

Gpsm1 (NM_001199146) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpsm1 (NM_001199146) 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: >MC228468 representing NM_001199146
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGAGCCCGCCCGCCCGTGGCCGAGGAGCTCCCGGCCCGCCCTCCAGGCGCCTCTACTCCAGGA
 TGGAGGCCTCCTGTCTAGAGCTGGCCCTGGAAGGGGAGCGGTGTGCAAGCGGGGACTTCAAGGCAGG
 TGTGGCTTTCTTCGAGGCTGCTGTGCAGGTGGGCACTGAGGACCTGAAGACACTGAGTGCCATCTACAGC
 CAGCTGGGCAATGCCTACTTCTACCTGAAGGAGTATGCCCGGGCCCTGCAGTTCCACAAACATGACTTGC
 TGCTGGCACGGACCATTGGTGACCGCATGGGGGAGGCCAAGGCTAGTGGGAACCTGGGCAACACACTCAA
 GGTCTAGGCCGATTGATGAGGCAATCGTCTGCTGCCAACGACACTTGGACATTGCCAGGAGCAGGGG
 GACAAGGTTGGGGAGGCGAGAGCACTCTACAACATTGAAATGTGTACCACGCCAAGGGCAAACAGCTTT
 CCTGGAATGCTGCACAGGACCCCGGCACCTGCCACCTGATGTCCGCGAGACACTGCACAGGGCCTCTGA
 GTTTTATGAGAGGAACCTGTCTTTGGTGAAGAACTAGGGCAGCCGGCGCCAGGGCAGGGCCTATGGC
 AACCTGGGTAACACCCACTACCTACTGGGAAACTTACCGAGGCCACAACCTTCCACAAAGAGCGCCTGG
 CCATCGCAAGGAGTTTGGGGACAAGGCAGCTGAGCGGAGGGCCTACAGCAACCTGGGCAATGCTCACAT
 CTTCTTGGGGCGCTTTGATGTGGCTGCTGAACATTACAAGAAGACGCTGCAGCTGTCTCGGCAGCTCCGG
 GACCAGGCAGTGGAGGCTCAGGCTTGCTACAGCCTGGGCAACACCTACACACTGTACAGGACTACGAGC
 GTGCTGCTGAGTACCACCTGCGGCACCTAGTCATTGCCAGGAGCTGGCTGATAGGGTGGGAGAGGGCCG
 AGCATGCTGGAGCCTGGGAAACGCTATGTGTCCATGGGAGCCCTGCACAGGCCTTGACCTTTGCCAAG
 AAACATCTGCAGATCTCCAGGAGATTGGAGACCGAAACGGAGAAGTACAGCCCGCATGAATATTGCC
 ACCTGCAGCTGGCCCTGGCCCGCTGACTAGCCAGCAGCAGCGGAGAAGCCAGATCTGGCTGGCTATGA
 GGCAACAAGGAGCAAGACCCAAACGGACACAGAGGCTGAGTGCCGAGACCTGGGACCTGCTGCGGCTCCCC
 CTGGACCGGGTATTCCAGGGCCCGTCTTCTGACGAGGAGTGTTCCTTGGACCTGCTGAGTAAGTTCC
 AGAGCAGTCGCATGGATGACCAGCCTGTCCCCTGGAGGAAGGCCAGGCTGGGGCTGCTGAGGCCACAGC
 TGCCCCATCCGTGGAGGATAGAGCAGCTCAGTCTCCGTGACAGCTTACCACAGACAGAGGAGTTCTTT
 GACCTCATTGCCAGCTCCAGAGCCCGGCTGGACGACCAGAGGGCTAGCGTAGGCAGCCTGCCTGGGC
 TACGCATACCCCTCAACAATGTGGGCACCTCCGAGGCGACGGGACGCCAGGAGCCGGGGATGAGTT
 TTTCAACATGCTTATCAAATACCAGTCTCCAGGATTGATGACCAGCCTGCCACCCCTGATGTGCTG
 CCCCCTGGCCCTACCATGCTGATGAGGATTTCTCAGCCTTATCCAGAGGGTGCAGGCTAAGCGGATGG
 ATGAGCAGCGTGTGGACCTTGTGGGAGTCCAGAGCAAGAGGCCAGTGGGCTGCCTGATCCCCAGCAGCA
 GTGTCCACCGGGTGCCAGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001199146
- Insert Size:** 1842 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001199146.1](#), [NP_001186075.1](#)

RefSeq Size: 3209 bp

RefSeq ORF: 1842 bp

Locus ID: 67839

UniProt ID: [Q6IR34](#)

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]

Transcript Variant: This variant (2) has an alternate 5' terminus which results in the use of an alternate translation initiation site and lacks an in-frame exon at the 3' end, compared to variant 3. Variant 2 encodes isoform 2 which has a shorter and distinct N-terminus, compared to isoform 3.