

Product datasheet for **RN200162**

Gpsm1 (NM_144745) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpsm1 (NM_144745) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gpsm1
Synonyms:	Ags3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200162 representing NM_144745
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGAGCCCGCCCGCCCGCGGCCGAGGAGCTCCCGGCCAGCCGCGAGGCGCTCTACTCCAGGA
 TGGAGGCCTCCTGTCTGGAGCTGGCACTGGAAGGTGAGCGGTGTGCAAGCGGGGACTTCAAGGCAGG
 TGTGGCCTTCTTTGAGGCTGCCGTGCAGGTGGCACTGAGGACCTGAAGCACTGAGTGCTATCTACAGC
 CAGCTGGCAATGCCTACTTCTACCTGAAGGAGTATGCCAGGGCCCTGCAGTTCCACAAACATGACTTGC
 TGCTGGCAGGACCATTGGCGACCCATGGGGGAAGCCAAGGCCAGTGGGAACCTGGCAACACACTCAA
 GGTCTGGGCCGATTGATGAGGCAATTGTCTGTTGCCAGCGACACTGGACATTGCCAGGAGCAGGGG
 GACAAGGTTGGGAAGCGAGAGCACTCTACAACATTGAAATGTGTACCATGCCAAGGGCAAACAGCTAT
 CCTGGAACGCTGCACAGGACCCTGGGCACCTGCCACCTGATGTCGTGAGACACTGCACAGGGCCTCTGA
 GTTCTATGAGAGGAACCTGTCTTGGTGAAGGAGCTAGGGGATCGGGCAGCCAGGGCAGAGCCTATGGC
 AACCTGGGTAACACCCACTACCTGCTGGGGAACCTCACAGAAGCTACAACCTTCCACAAAGAGCGCCTGG
 CCATTGCTAAGGAGTTTGAGACAAAGCAGCTGAGAGGAGAGCCTACAGCAACTTGGGCAATGCTACAT
 CTTCCTGGGGCGCTTTGATGTGGCTGCTGAACATTACAAGAAGACGCTGCAGCTGTCTCGGCAGCTCCGG
 GACCAGGCCGTGGAAGCACAGGCTTGTACAGTCTGGGGAACACCTACACACTGCTGCAGGACTACGAGC
 GGGCTGCTGAGTACCACCTGCGGCACCTTGTCAATGCCAGGAGCTGGCTGATAGGGTGGGAGAGGGCCG
 AGCTTGTGGAGCCTGGGAACGCTACGTGTCCATGGGAGCCCCGCACAGGCCTTGACCTTTGCCAAA
 AAACATCTGCAGATCTCCAGGAGATTGGAGACCGAAAATGGAGAGCTCACGGCCCGCATGAATATTGCTC
 ACCTGCAGCTGGCACTGGCCGGCTGACTAGCCCTGCGGCGCAGAGAAGCCAGATCTGGCTGGCTATGA
 GGCACAAGGAGCAAGACCCAAAAGGACACAGAGGCTGAGTGCAGGACCTGGGACCTGCTGCGGCTCCCC
 CTGGACCGGGAGCAAAATGGAGAGACCCACCACAGGGGACTGGAGGGTCCAAGCAGGGACTCGCTTC
 CTCTCCCCATGAGGAGCAGGAAGTACCAGGAAGTCCAGATGCCATTGAGAGGAGACCCCGGAGGGTAG
 CCACTCTCCACTGGACAGTGTGATGTAAGGGTACAGGTGCCTCGCACGGGTATCCCCAGGGCCCCGTCC
 TCTGACGAGGAGTGTCTTCTCGATCTGCTGAGTAAAGTTCAGAGCAGTGTGATGGATGACCAACGCTGTC
 CCCTGGAGGAAGGCCAGGCTGGGCTGCTGAGGCTACAGCTGCCCAACCCTGGAGGAGAGAGCGGCTCA
 GCCCTCTGTAACAGCTTACCACAGACTGAAGAGTTCTTTGACCTCATTGCCAGCTCCAGAGCCCGCGG
 CTGGATGACCAGAGGGCTAGCGTAGGCAGCCTGCCTGGGCTTCGCATCACCTCAACAACGTGGGGCACC
 TCCGAGGCGACGGGACCCAGGAGCCAGGGGATGAGTTTTTCAACATGCTTATCAAATACCAGTCCTC
 CAGGATTGATGACCAGCGCTGTCCACCCCTGATGTGCTGCCCGAGGCCCCACCATGCCTGATGAGGAT
 TTCTTCAGCCTTATCCAGAGGTTGACGGCTAAGCGGATGGATGAGCAGCGTGTGGACCTGGCTGGGAGTC
 CAGACCAAGAGCCAGTGGGCTGCCTGATCCCCGCAGCAATGTCCGCCAGGTGCCAGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_144745
- Insert Size:** 2022 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: [NM_144745.2](#), [NP_653346.2](#)

RefSeq Size: 3425 bp

RefSeq ORF: 2022 bp

Locus ID: 246254

UniProt ID: [Q9R080](#)

Cytogenetics: 3p13

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 (1, also known as AGS3-LONG) represents the longer transcript and encodes the longer isoform (a).