

Product datasheet for **RN200163**

Gpsm1 (NM_001145469) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpsm1 (NM_001145469) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gpsm1
Synonyms:	Ags3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN200163 representing NM_001145469 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGACCAACGCTGTCCCCTGGAGGAAGGCCAGGCTGGGGCTGCTGAGGCTACAGCTGCCCCAACCC
TGGAGGAGAGAGCGGCTCAGCCCTCTGTAAACAGCTTCACCACAGACTGAAGAGTTCTTTGACCTCATTGC
CAGCTCCCAGAGCCGCCGGCTGGATGACCAGAGGGCTAGCGTAGGCAGCCTGCCTGGGCTTCGCATCACC
CTCAACAACGTGGGGCACCTCCGAGGCGACGGGACCCCCAGGAGCCAGGGGATGAGTTTTTCAACATGC
TTATCAAATACCAGTCTCCAGGATTGATGACCAGCGCTGCCACCCCTGATGTGCTGCCCGAGGCC
CACCATGCCTGATGAGGATTTCTCAGCCTTATCCAGAGGGTGCAGGCTAAGCGGATGGATGAGCAGCGT
GTGGACCTGGCTGGGAGTCCAGACCAAGAGGCCAGTGGGCTGCCTGATCCCCGGCAGCAATGTCCGCCAG
GTGCCAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001145469
Insert Size:	501 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).



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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:	<ol style="list-style-type: none">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:	<u>NM_001145469.1, NP_001138941.1</u>
RefSeq Size:	1985 bp
RefSeq ORF:	501 bp
Locus ID:	246254
UniProt ID:	<u>Q9R080</u>
Cytogenetics:	3p13
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2, also known as AGS3-SHORT-1) differs in the 5' UTR, lacks several exons in the 5' coding region and uses a downstream translational start codon, compared to variant 1. The resulting isoform (b) is shorter at the N-terminus, compared to isoform a.</p>