

Product datasheet for **RR200163**

Gpsm1 (NM_001145469) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gpsm1 (NM_001145469) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gpsm1
Synonyms: Ags3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200163 representing NM_001145469
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGACCAACGCTGTCCCCTGGAGGAAGGCCAGGCTGGGGCTGCTGAGGCTACAGCTGCCCAACCC
 TGGAGGAGAGCGGCTCAGCCCTCTGTAAACAGCTTCACCACAGACTGAAGAGTTCTTTGACCTCATTGC
 CAGCTCCCAGAGCCGCCGCTGGATGACCAGAGGGCTAGCGTAGGCAGCCTGCCTGGGCTTCGCATCACC
 CTCAACAACGTGGGGCACCTCCGAGGCGACGGGACCCCAAGGAGCCAGGGGATGAGTTTTCAACATGC
 TTATCAAATACAGTCTCCAGGATTGATGACCAGCGCTGTCCACCCCTGATGTGCTGCCCGAGGCC
 CACCATGCCTGATGAGGATTTCTTCAGCCTTATCCAGAGGGTGCAGGCTAAGCGGATGGATGAGCAGCGT
 GTGGACCTGGCTGGGAGTCCAGACCAAGAGGCCAGTGGGCTGCCTGATCCCCGGCAGCAATGTCCGCCAG
 GTGCCAGC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200163 representing NM_001145469
 Red=Cloning site Green=Tags(s)

MDDQRCPLEEGQAGAAEATAAPLEERAAQPSVTASPQTEFFDLIASSQSRRLDDQRASVGSPLGLRIT
 LNNVGHRLRGDGPQEPGDEFFNMLIKYQSSRIDDRCPDPPDVLPRGPTMPDEDFSLIQRVQAKRMDEQR
 VDLAGSPDQEASGLPDRQCPGAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

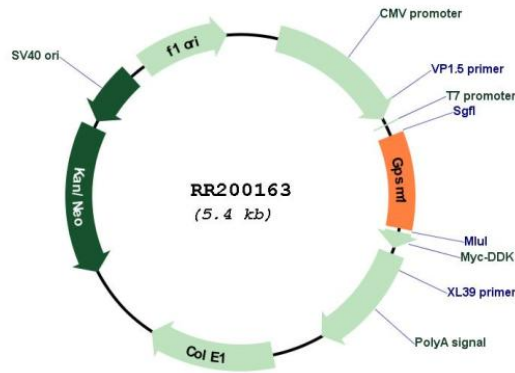


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001145469

ORF Size: 498 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:	<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</u> , <u>NP_001138941.1</u>
RefSeq Size:	1985 bp
RefSeq ORF:	501 bp
Locus ID:	246254
UniProt ID:	<u>Q9R080</u>
Cytogenetics:	3p13
MW:	18.1 kDa
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]