

Product datasheet for **MR230938**

Gpsm1 (NM_001199147) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpsm1 (NM_001199147) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpsm1
Synonyms:	1810037C22Rik; Ags3; AW107933
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR230938 representing NM_001199147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGGCTTCTGCTATGGAGGGCCAGCCTCTGGCCCTGAGCTTGGCAGAGAAGGCTGTGTGCAAGGTGG
TATATGGTGCCCTCGCCCTCGCCATTGCTGCTGCCCGTGGCCCTGGAGCTGTGGCTGTATGTACAGAA
GATGCGTAACCTCCAGAGAAAGAGGATGGAGGCCCTCTGTCTAGAGCTGGCCCTGGAAGGGGAGCGGCTG
TGCAAGGCGGGGACTTCAAGGCAGGTGTGGCTTCTTCGAGGCTGCTGTGCAGGTGGGCACTGAGGACC
TGAAGACACTGAGTGCCATCTACAGCCAGCTGGGCAATGCCTACTTCTACCTGAAGGAGTATGCCGGGC
CCTGCAGTTCACAAACATGACTTGCTGCTGGCACGGACCATTGGTGACCGCATGGGGGAGGCCAAGGCT
AGTGGGAACCTGGGAACACACTCAAGGTCTAGGCCGATTTCGATGAGGCAATCGTCTGCTGCCAACGAC
ACTTGGACATTGCCAGGAGCAGGGGACAAGGTTGGGGAGGCGAGAGCACTCTACAACATTGGAATGT
GTACCACGCCAAGGGCAAACAGCTTTCCTGGAATGCTGCACAGGACCCCGGGCACCTGCCACCTGATGTC
CGCGAGACACTGCACAGGGCCTCTGAGTTTTATGAGAGGAACCTGTCTTTGGTGAAGGAACCTAGGCGACC
GGGCGGCCAGGGCAGGGCCTATGGCAACCTGGGTAACACCCACTACCTACTGGGAACTTCACGGAGGC
CACAACCTTCCACAAAGAGCGCCTGGCCATCGCCAAGGAGTTTGGGGACAAGGCAGCTGAGCGGAGGGCC
TACAGCAACCTGGGCAATGCTCACATCTTCTGGGGCGCTTGTATGTGGCTGCTGAACATTACAAGAAGA
CGCTGCAGCTGTCTCGGCAGCTCCGGGACCAGGCAGTGGAGGCTCAGGCTTGCTACAGCCTGGGCAACAC
CTACACACTGCTACAGGACTACGAGCGTGTCTGAGTACCACCTGCGGCACCTAGTCATTGCCAGGAG
CTGGCTGATAGGGTGGGAGAGGGCCGAGCATGCTGGAGCCTGGGAACGCCTATGTGCCATGGGGAGCC
CTGCACAGGCCTTGACCTTTGCCAAGAAACATCTGCAGATCTCCAGGAGATTGGAGACGAAACGGAGA
ACTGACAGCCCGCATGAATATTGCCACCTGCAGCTGGCCCTGGGCCGGCTGACTAGCCACGACGAGCG
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ATTGAGAGGAGACCCCGGAGGGTAGTCACTCTCCACTGGACAGTGTGATGTAAGGGTACAGGTGCCTC
GTACGGGTATTCCAGGGCCCCGCTTCTGACGAGGAGTGTCTTTGACCTGCTGAGTAAGTTCAGAG
CAGTCGCATGGATGACCAGCGCTGTCCCTGGAGGAAGGCCAGGCTGGGGCTGCTGAGGCCACAGCTGCC
CCATCCGTGGAGGATAGAGCAGCTCAGTCTCCGTGACAGCTTACCACAGACAGAGGAGTCTTTGACC
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CATCACCTCAACAATGTGGGGCACCTCCGAGGCGACGGGGACGCCAGGAGCCGGGGATGAGTTTTTC
AACATGCTTATCAAAATACCAGTCTCCAGGATTGATGACCAGCGCTGCCACCCCTGATGTGCTGCCCC
GTGGCCCTACCATGCCTGATGAGGATTTCTTACGCTTATCCAGAGGGTGCAGGCTAAGCGGATGGATGA
GCAGCGTGTGGACCTTCTGGGAGTCCAGAGCAAGAGGCCAGTGGGCTGCCTGATCCCCAGCAGCAGTGT
CCACCGGGTGCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230938 representing NM_001199147
 Red=Cloning site Green=Tags(s)

MLASAMEGQPLALSLAEKAVCKVYVGAPRPRPLLLPVGLELWL YVQKMRNLQRKRMEASCLEL ALEGERL
 CKAGDFKAGVAFEEAAVQVGTEDLKTLSAIYSQLGNAYFYLKEYARALQFHKHDL LARTIGDRMGEAKA
 SGNLGNLTKVLGRFDEAIVCCQRHL DIAQEQGDKVGEARALYNI GN VYHAKGKQLSWNAAQDPGHLPPDV
 RETLHRASEFYERNLSLVKELGDRAAQGRAYGNLGNTHYLLGNFTEATTFHKERLAI AKEFGDKAAERRA
 YSNLGNAHIFLGRFDVAAEHYKKTLSRQLRDQAVEAQACYSLGNTY TLLQDYERAAEYHLRHLVIAQE
 LADRVGEGRACWSLGNAYVSMGSPAQALTF AKKHLQISQEI GDRNGELTARMNIAHLQLALGRLTSPAAA
 EKPDLAGYEAQGARPRTQRLSAETWDLRLPLDREQNGETHHTGDWRGPGRDSLPLPMSRKYQEGPDA
 IERRPREGSHSPLDSADVRVQVPRTGIPRAPSSDEECFFDLLSKFQSSRMDDQRCPLEEQAGAAEATAA
 PSVEDRAAQSSVTASPQTEEFFDLIASSQSRLLDDQRASVGS LPLGRITLNNVGHLRGDGDAQEPGDEFF
 NMLIKYQSSRIDDRCPDVLPRGPTMPDEDFSLIQRVQAKRMDEQRVDLAGSPEQEASGLPDPQQQC
 PPGAS

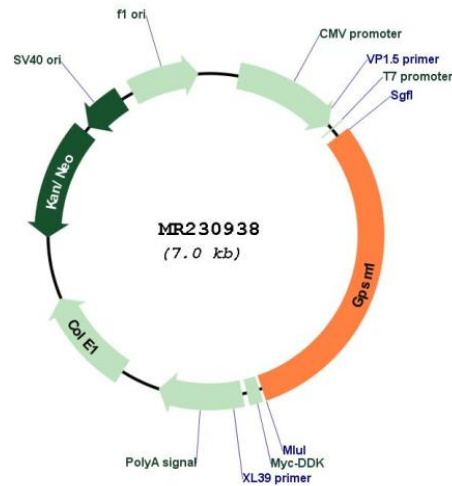
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001199147

ORF Size: 2115 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:

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_001199147.1](#), [NP_001186076.1](#)

RefSeq Size: 3458 bp

RefSeq ORF: 2118 bp

Locus ID: 67839

UniProt ID: [Q6IR34](#)

Cytogenetics: 2 A3

MW: 78.6 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]