

Product datasheet for **MC228727**

Gpsm1 (NM_001199147) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228727 representing NM_001199147
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGCTTCTGCTATGGAGGGCCAGCCTCTGGCCCTGAGCTTGGCAGAGAAGGCTGTGTGCAAGGTGG
 TATATGGTGCCCTCGCCCTCGCCATTGCTGCTGCCCGTGGCCCTGGAGCTGTGGCTGTATGTACAGAA
 GATGCGTAACCTCCAGAGAAAGAGGATGGAGGCCCTCTGTCTAGAGCTGGCCCTGGAAGGGGAGCGGCTG
 TGCAAGGCGGGGACTTCAAGGCAGGTGTGGCTTCTTCGAGGCTGCTGTGCAGGTGGGCACTGAGGACC
 TGAAGACACTGAGTGCCATCTACAGCCAGCTGGGCAATGCCTACTTCTACCTGAAGGAGTATGCCGGGC
 CCTGCAGTTCACAAACATGACTTGCTGCTGGCACGGACCATTGGTGACCGCATGGGGGAGGCCAAGGCT
 AGTGGGAACCTGGCAACACACTCAAGGTCTAGGCCGATTTCGATGAGGCAATCGTCTGTGCCAACGAC
 ACTTGGACATTGCCAGGAGCAGGGGACAAGGTTGGGGAGCGAGAGCACTCTACAACATTGGAATGT
 GTACCACGCCAAGGGCAAACAGCTTTCCTGGAATGCTGCACAGGACCCCGGGCACCTGCCACCTGATGTC
 CGCGAGACACTGCACAGGGCCTCTGAGTTTTATGAGAGGAACCTGTCTTTGGTGAAGGAACCTAGGCGACC
 GGGCGGCCAGGGCAGGGCCTATGGCAACCTGGGTAACACCCACTACCTACTGGGAACTTACGGAGGC
 CACAACCTTCCACAAAGAGCGCCTGGCCATCGCCAAGGAGTTTGGGGACAAGGCAGCTGAGCGGAGGGCC
 TACAGCAACCTGGGCAATGCTCACATCTTCTGGGGCGCTTGTATGTGGCTGCTGAACATTACAAGAAGA
 CGCTGCAGCTGTCTCGGCAGCTCCGGGACCAGGCAGTGGAGGCTCAGGCTTGCTACAGCCTGGGCAACAC
 CTACACACTGCTACAGGACTACGAGCGTGTGCTGAGTACCACCTGCGGCACCTAGTCATTGCCAGGAG
 CTGGCTGATAGGGTGGGAGAGGGCCGAGCATGCTGGAGCCTGGGAACGCCTATGTGCCATGGGGAGCC
 CTGCACAGGCCTTGACCTTTGCCAAGAAACATCTGCAGATCTCCAGGAGATTGGAGCCGAAACGGAGA
 ACTGACAGCCCGCATGAATATTGCCACCTGCAGCTGGCCCTGGGCCGGCTGACTAGCCAGCAGCAGCG
 GAGAAGCCAGATCTGGCTGGCTATGAGGCACAAGGAGCAAGACCCAAACGGACACAGAGGCTGAGTGCCG
 AGACCTGGGACTGCTGCGGCTCCCCCTGGACCGGAGCAGAATGGAGAGACCCACCACACAGGGGACTG
 GAGGGTCCAGGCAGGGACTCGCTTCCCTCCCATGAGGAGCAGGAAGTACCAGGAAGTCCAGATGCC
 ATTGAGAGGAGACCCGGGAGGGTAGTCACTCTCCACTGGACAGTGTGATGTAAGGGTACAGGTGCCTC
 GTACGGGTATTCCAGGGCCCCGCTTCTGACGAGGAGTGTTCCTTTGACCTGCTGAGTAAGTTCAGAG
 CAGTCGCATGGATGACCAGCGCTGTCCCTGGAGGAAGGCCAGGCTGGGGCTGCTGAGGCCACAGCTGCC
 CCATCCGTGGAGGATAGAGCAGCTCAGTCTCCGTGACAGCTTACCACAGACAGAGGAGTCTTTGACC
 TCATTGCCAGCTCCAGAGCCGCGGCTGGACGACCAGAGGGCTAGCGTAGGCAGCTGCCTGGGCTACG
 CATCACCTCAACAATGTGGGGCACCTCCGAGGCGACGGGGACGCCAGGAGCCGGGGATGAGTTTTTC
 AACATGCTTATCAAAATACCAGTCTCCAGGATTGATGACCAGCGCTGCCACCCCTGATGTGCTGCCCC
 GTGGCCCTACCATGCCTGATGAGGATTTCTCAGCCTTATCCAGAGGGTGCAGGCTAAGCGGATGGATGA
 GCAGCGTGTGGACCTTGTGGGAGTCCAGAGCAAGAGGCCAGTGGGCTGCCTGATCCCCAGCAGCAGTGT
 CCACCGGTGCCAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001199147

Insert Size: 2118 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001199147.1</u> , <u>NP_001186076.1</u>
RefSeq Size:	3458 bp
RefSeq ORF:	2118 bp
Locus ID:	67839
UniProt ID:	<u>Q6IR34</u>
Cytogenetics:	2 A3
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 (3) represents the longest transcript and encodes the longest isoform (3).</p>