

## Product datasheet for **RC224368**

### GPSM1 (NM\_015597) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPSM1 (NM_015597) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPSM1
Synonyms:	AGS3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC224368 representing NM\_015597  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGCCCGCCCGCCCGTGGCCGACGAGCTCCCGGGCCCGCCGAGGCGCCTCTACTCCAGGA  
 TGGAGGCGTCTGCCTAGAGCTGGCGCTGGAGGCGAGCGTCTGTGCAAGCGGGCGACTTCAAGACAGG  
 CGTGGCCTTCTTTGAGGCTGCTGTGCAGGTGGGCACCGAGGACCTGAAGACACTGAGTGCCATCTACAGC  
 CAGCTGGGCAACGCCTACTTCTACCTGAAGGAGCACGGCCGGGCGCTGGAATACCACAAGCATGACCTCC  
 TGCTGGCGCGGACCATCGGTGACCGCATGGGGGAGGCCAAGGCCAGTGGAAACCTGGGAAACACTCAA  
 GGTCTGGGGCGCTTCGACGAGGCTGCCGTCTGCTGCCAGCGGCATCTGAGCATCGCCAAAGAGCAGGGA  
 GACAAGGTTGGGGAGGCGAGGGCCCTCTACAACATCGGGAACGTGTACCACGCCAAAGGCAAGCAACTGT  
 CCTGGAACGCCCAAACGCCACGACGAGACCCCGGGCACCTGCCGCCGATGTCCGAGAGACCTGTGCAA  
 GGCTCCGAGTTCTACGAGAGGAACCTGTCCCTGGTGAAGGAGCTGGGCGACCGTGGCGCAGGGCAGG  
 GCCTACGGCAACCTGGGCAACCCCACTATTTGTTGGGGAACCTCACAGAGGCCACGACCTTCCACAAGG  
 AGCGCCTGGCCATTGCTAAGGAGTTGGAGACAAGGCAGCCGAGAGGAGGGCCTACAGCAACCTGGGAA  
 CGCCACGCTTCTGGGGCGCTTTGACGTGGCCCGCAGTACTACAAGAAGACGCTGCAACTGTCTCGG  
 CAGCTCAGGGACCAGGCAGTGGAGGCGCAGGCCTGCTACAGTCTGGGCAACACCTACACGCTGCTCAGG  
 ACTACGAGCGCGCGCCGAGTACCACCTGCGGCACCTGCTCATTGCCAGGAGCTGGCCGACAGAGTGGG  
 CGAGGGCCGGGCGTGTGGAGCCTGGGAAATGCCTACGTGTCCATGGGGCGCCAGCGCAGGCCCTGACC  
 TTCGCAAGAAGCACCTGCAGATCTCCAGGAGATCGGGGACCCGATGGGGAGCTCACGAGCCGATGA  
 ACGTGGCGCAGCTGCAGCTGGTGTCTGGCCGCTGACCAGCCCGCAGCCTCAGAGAAGCCTGACCTGGC  
 CGGCTATGAGGCCCAGGGTGTGTTCCAGGGTGTGGGGGGTCTTGTCTCCACAGGCACGACCGCATC  
 AGGAGCTGCGGAGGGTGGGATCGAGGCCAGGCCAGCATGGCGGAGTGGCAGCCGCCAGAAAATGGCGC  
 CTACAAGCCAGTTCTTCTGGCCTCAGGGACAGCACAGGCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC224368 representing NM\_015597  
 Red=Cloning site Green=Tags(s)

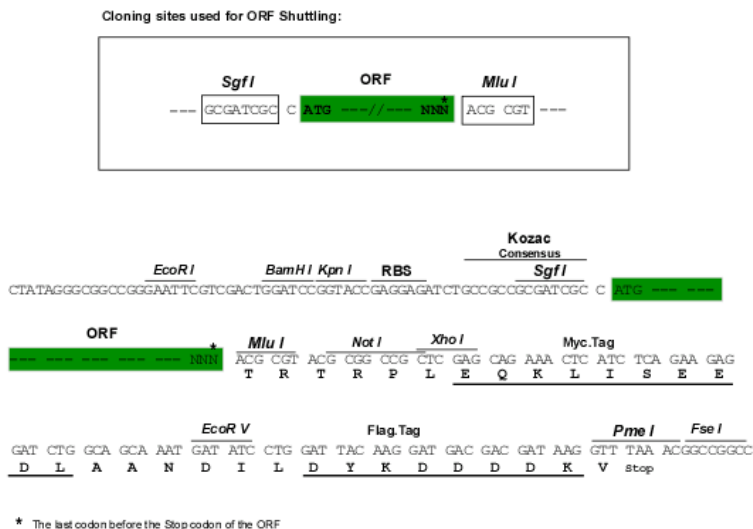
MAGPAPPVADELPGPAARRLYSRMEASCLELALEGERLCKAGDFKTGVAFFEAAVQVGTEDLKTLSAIYS  
 QLGNAFYLKEHGRALEYHKHDLALLARTIGDRMGEAKASGNLGNLTKVLGRFDEAAVCCQRHLSIAQEQG  
 DKVGEARALYINIGVYHAKGKQLSWNAANATQDPGHLPPDVRETLCASEFYERNLSLVKELGDRAAQGR  
 AYGNLGNTHYLLGNFTEATTFHKERLAIKEFGDKAAERRAYSNLGNHVFVLRGFDVAEYKTLQLSR  
 QLRDQAVEAQACYSYLGNTYLLQDYERAAEYHLRHLIAQELADRVGEGRACWSLGNAYVSMGRPAQALT  
 FAKKHLQISQIEGDRHGELTARMNVAQLQLVLRGRLTSPAASEKPDLAGYEAQGEFQGGVLLPTGTDR  
 RSCGGVSRPGQHGGGSRQKMAPTSQFFLASGTAQA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

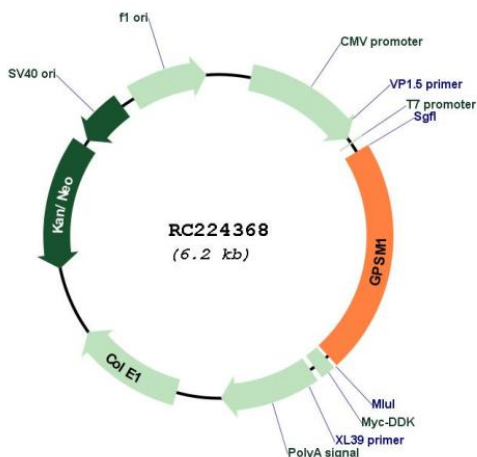
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



- ACCN:** NM\_015597
- ORF Size:** 1371 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\\_015597.4](#), [NP\\_056412.4](#)

**RefSeq Size:** 2282 bp

**RefSeq ORF:** 1374 bp

**Locus ID:** 26086

**UniProt ID:** [Q86YR5](#)

**Cytogenetics:** 9q34.3

**MW:** 49.7 kDa

**Gene Summary:** G-protein signaling modulators (GPSMs) play diverse functional roles through their interaction with G-protein subunits. This gene encodes a receptor-independent activator of G protein signaling, which is one of several factors that influence the basal activity of G-protein signaling systems. The protein contains seven tetratricopeptide repeats in its N-terminal half and four G-protein regulatory (GPR) motifs in its C-terminal half. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]