

## Product datasheet for **RG227680**

### **GPSM1 (NM\_001145638) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPSM1 (NM_001145638) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPSM1
Synonyms:	AGS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG227680 representing NM\_001145638  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGCCCGCCCGCCCGTGGCCGACGAGCTCCCGGGCCCGCCCGCAGGCGCTCTACTCCAGGA  
 TGGAGGCGTCTGCCTAGAGCTGGCGCTGGAGGGCGAGCGTCTGTGCAAGCGGGCGACTTCAAGACAGG  
 CGTGGCCTTCTTTGAGGCTGCTGTGCAGGTGGCACCGAGGACCTGAAGACACTGAGTGCCATCTACAGC  
 CAGCTGGGCAACGCCTACTTCTACCTGAAGGAGCACGGCCGGCGCTGGAATACCACAAGCATGACCTCC  
 TGCTGGCGCGGACCATCGGTGACCGCATGGGGGAGGCCAAGGCCAGTGGAAACCTGGAAACACACTCAA  
 GGTCTGGGGCGCTTCGACGAGGCTGCCGTCTGCTGCCAGCGGCATCTGAGCATCGCCCAAGAGCAGGGA  
 GACAAGGTTGGGGAGGCGAGGGCCCTCTACAACATCGGGAACGTGTACCACGCCAAAGGCAAGCAACTGT  
 CCTGGAACGCCCAAACGCCACGACGAGACCCCGGGCACCTGCCGCCGATGTCCGAGAGACCTGTGCAA  
 GGCTCCGAGTTCTACGAGAGGAACCTGTCCCTGGTGAAGGAGCTGGGCGACCGTGGCGCAGGGCAGG  
 GCCTACGGCAACCTGGGCAACCCCACTATTTGTTGGGGAACCTCACAGAGGCCACGACCTCCACAAGG  
 AGCGCCTGGCCATTGCTAAGGAGTTTGGAGACAAGGCAGCCGAGAGGAGGGCCTACAGCAACCTGGGAA  
 CGCCACGCTTCTTGGGGCGCTTTGACGTGGCCCGCAGTACTACAAGAAGACGCTGCAACTGTCTCGG  
 CAGCTCAGGGACAGGCAGTGGAGGCGCAGGCCTGCTACAGTCTGGGCAACACCTACACGCTGCTGCAGG  
 ACTACGAGCGCGCGCCGAGTACCACCTGCGGCACCTGCTCATTGCCAGGAGCTGGCCGACAGAGTGGG  
 CGAGGGCCGGCGTGTGGAGCCTGGGAAATGCCTACGTGTCCATGGGGCGCCAGCGCAGGCCCTGACC  
 TTCGCAAGAAGCACCTGCAGATCTCCAGGAGATCGGGACCGCCATGGGGAGCTCACGGCCCGCATGA  
 ACGTGGCGCAGCTGCAGCTGGTGTCTGGCCCGCTGACCAGCCCGCAGCCTCAGAGAAGCCTGACCTGGC  
 CGGCTATGAGGCCAGGGGGCCAGACCCAAGAGGACGCAGAGGCTGAGCGCGGAGACCTGGGACCTGCTG  
 AGACTCCCTGGAGCGGGAGCAGAATGGAGACAGCCACCATTCAGGGGACTGGCGGGGGCCAGCAGGG  
 ACTCGCTACCCCTCCCGTGGAGAGCAGGAAGTACCAGGAAGGCCCGGACGCTGAGAGGAGGGCCCGGGA  
 GGGCAGCCACTCCCGTGGACAGCGCCGACGTCCGGGTGCACGTGCCACGCACGAGCATCCCGAGGGCC  
 CCGTCTTCGACGAGGAGTGCTTCTTTGACCTGTTGACCAAGTTCAGAGCAGCCGATGGACGACCAGC  
 GTTGTCCCTGGACGATGGCCAGGCCGGGGTCCGAGGCCACGGCCGCCCCACCCTGGAGGACAGGAT  
 CGCCAGCCCTCGATGACGGCTCGCCCAGACCGAGGAATTCTTCGACCTCATCGCCAGCTCCCAGAGC  
 CGCCGGCTGGACGACCAGCGGGCAGCGTGGGCAGCCTGCCGGGGCTGCGAATCACCCACAGCAATGCAG  
 GGCACCTCCGAGGCCACGCGAGCCCCAGGAGCCGGGGACGACTTCTTCAACATGCTCATCAAGTACCA  
 GTCTCCAGGATCGATGACCAGCGCTGCCCGCCACCTGACGTAAGTCCCGGGGGCCCTACCATGCCGGAC  
 GAGGACTTCTTACGCTCATTACAGGGTGCAGGCTAAGCGCATGGACGAGCAGCGGGTGGACCTCGCCG  
 GGGCCCGGAGCAGGGGGCAGGGGCCCGCCGAGCCCCAGCAGCAGTGCCAGCCTGGTGGCAGC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG227680 representing NM\_001145638  
Red=Cloning site Green=Tags(s)

MAGPAPPVADELPGPAARRLYSRMEASCLELALAGERLCKAGDFKTGVAFFFAAVQVGTEDLKTLSAIYS  
 QLGNAFYLYLKEHGRALEYHKHDLALLARTIGDRMGEAKASGNLGNLTKVLGRFDEAAVCCQRHLSIAQEQQ  
 DKVGEARALYNIENVYHAKGKQLSWNAANATQDPGHLPPDVRETLCKASEFYERNLSLVKELGDRAAQGR  
 AYGNLGNTHYLLGNFTEATTFHKERLAIKEFGDKAAERRAYSNLGNAHVFLGRFDVAEYKKTLLSR  
 QLRDQAVEAQACYSLGNTYTLQDYERAAEYHLRHLLIAQELADRVGEGRACWSLGNAYVSMGRPAQALT  
 FAKKHLQISQEIHDRHGELTARMNVAQLQLVLGRLTSPAASEKPDLAGYEAQGARPVRTQRLSAETWDL  
 RLPLEREQNGDSSHSGDWRGSPSRDSLPLPVRSRKYQEGPDAERRPREGSHSPLDSADVRVHVPRTSIPRA  
 PSSDEECFFDLLTKFQSSRMDDQRCPLDDGQAGAAEATAAPTLEDRIAQPSMTASPQTEEFFDLIASSQS  
 RRLDDQRAVSGSLPGLRITHSNAGHLRGHGEPQEPGDDFFNMLIKYQSSRIDQRCPPDVLPRGPTMPD  
 EDFFSLIQRVQAKRMDEQRVDLAGGPEQGAGGPPPEPQQQCQPGAS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001145638

**ORF Size:** 2025 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\\_001145638.1](#), [NP\\_001139110.1](#)

**RefSeq Size:** 3651 bp

**RefSeq ORF:** 2028 bp

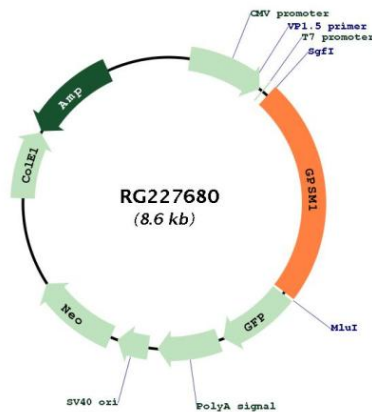
**Locus ID:** 26086

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

**Cytogenetics:** 9q34.3

**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]

### Product images:



Circular map for RG227680