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Product datasheet for RC227680

GPSM1 (NM_001145638) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPSM1 (NM_001145638) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPSM1
Synonyms:	AGS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227680 representing NM_001145638
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGCCCGGCCCCGCCCGTGGCCGACGAGCTCCCGGGCCCGGCCGCCAGGCGCCTCTACTCCAGGA
TGGAGGCGTCCTGCCTAGAGCTGGCGCTGGAGGGCGAGCGTCTGTGCAAGGCGGGCGACTTCAAGACAGG
CGTGGCCTTCTTTGAGGCTGCTGTGCAGGTGGGCACCGAGGACCTGAAGACACTGAGTGCCATCTACAGC
CAGCTGGGCAACGCCTACTTCTACCTGAAGGAGCACGGCCGGGCGCTGGAATACCACAAGCATGACCTCC
TGCTGGCGCGGACCATCGGTGACCGCATGGGGGAGGCCAAGGCCAGTGGAAACCTGGGAAACACACTCAA
GGTCCTGGGGCGCTTCGACGAGGCTGCCGTCTGCTGCCAGCGGCATCTGAGCATCGCCCAAGAGCAGGGA
GACAAGGTTGGGGAGGCGAGGGCCCTCTACAACATCGGGAACGTGTACCACGCCAAAGGCAAGCAACTGT
CCTGGAACGCCGCAAACGCCACGCAGGACCCCGGGCACCTGCCGCCCGATGTCCGAGAGACCCTGTGCAA
GGCCTCCGAGTTCTACGAGAGGAACCTGTCCCTGGTGAAGGAGCTGGGCGACCGTGCGGCGCAGGGCAGG
GCCTACGGCAACCTGGGCAACACCCACTATTTGTTGGGGAACTTCACAGAGGCCACGACCTTCCACAAGG
AGCGCCTGGCCATTGCTAAGGAGTTTGGAGACAAGGCAGCCGAGAGGAGGGCCTACAGCAACCTGGGGAA
CGCCCACGTCTTCCTGGGGCGCTTTGACGTGGCCGCCGAGTACTACAAGAAGACGCTGCAACTGTCTCGG
CAGCTCAGGGACCAGGCAGTGGAGGCGCAGGCCTGCTACAGTCTGGGCAACACCTACACGCTGCTGCAGG
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CGAGGGCCGGGCGTGCTGGAGCCTGGGAAATGCCTACGTGTCCATGGGGCGCCCAGCGCAGGCCCTGACC
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GGGCAGCCACTCCCCGCTGGACAGCGCCGACGTCCGGGTGCACGTGCCACGCACGAGCATCCCGAGGGCC
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GTTGTCCCCTGGACGATGGCCAGGCCGGGGCTGCCGAGGCCACGGCCGCCCCCACCCTGGAGGACAGGAT
CGCCCAGCCCTCGATGACGGCCTCGCCCCAGACCGAGGAATTCTTCGACCTCATCGCCAGCTCCCAGAGC
CGCCGGCTGGACGACCAGCGGGCCAGCGTGGGCAGCCTGCCGGGGCTGCGAATCACCCACAGCAATGCAG
GGCACCTCCGAGGCCACGGCGAGCCCCAGGAGCCGGGGGACGACTTCTTCAACATGCTCATCAAGTACCA
GTCCTCCAGGATCGATGACCAGCGCTGCCCGCCACCTGACGTACTGCCCCGGGGCCCTACCATGCCGGAC
GAGGACTTCTTCAGCCTCATTCAGAGGGTGCAGGCTAAGCGCATGGACGAGCAGCGGGTGGACCTCGCCG
GGGGCCCGGAGCAGGGGGCAGGCGGCCCGCCCGAGCCCCAGCAGCAGTGCCAGCCTGGTGCGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227680 representing NM_001145638
Red=Cloning site Green=Tags(s)

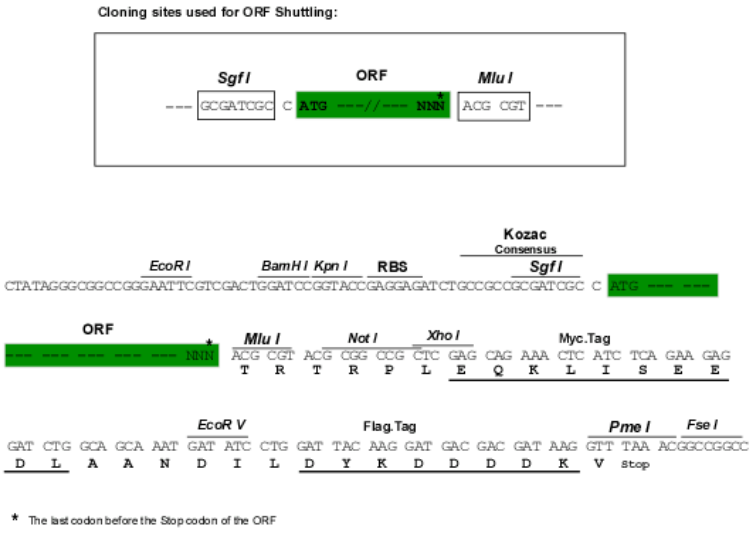
MAGPAPPVADELPGPAARRLYSRMEASCLELALEGERLCKAGDFKTGVAFFEAAVQVGTEDLKTLSAIYS
QLGNAYFYLKEHGRALEYHKHDLLLARTIGDRMGEAKASGNLGNTLKVLGRFDEAAVCCQRHLSIAQEQG
DKVGEARALYNIGNVYHAKGKQLSWNAANATQDPGHLPPDVRETLCKASEFYERNLSLVKELGDRAAQGR
AYGNLGNTHYLLGNFTEATTFHKERLAIAKEFGDKAAERRAYSNLGNAHVFLGRFDVAAEYYKKTLQLSR
QLRDQAVEAQACYSLGNTYTLLQDYERAAEYHLRHLLIAQELADRVGEGRACWSLGNAYVSMGRPAQALT
FAKKHLQISQEIGDRHGELTARMNVAQLQLVLGRLTSPAASEKPDLAGYEAQGARPKRTQRLSAETWDLL
RLPLEREQNGDSHHSGDWRGPSRDSLPLPVRSRKYQEGPDAERRPREGSHSPLDSADVRVHVPRTSIPRA
PSSDEECFFDLLTKFQSSRMDDQRCPLDDGQAGAAEATAAPTLEDRIAQPSMTASPQTEEFFDLIASSQS
RRLDDQRASVGSLPGLRITHSNAGHLRGHGEPQEPGDDFFNMLIKYQSSRIDDQRCPPPDVLPRGPTMPD
EDFFSLIQRVQAKRMDEQRVDLAGGPEQGAGGPPEPQQQCQPGAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8038_b07.zip

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 ORF: 2028 bp

Locus ID: 26086

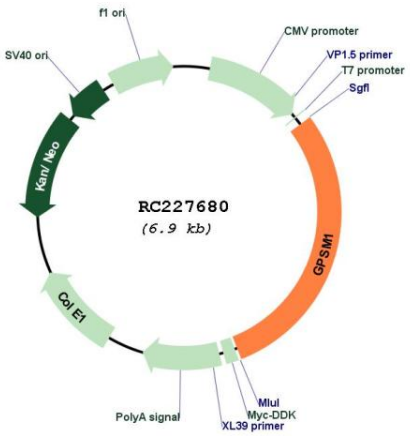
UniProt ID: Q86YR5

Cytogenetics: 9q34.3

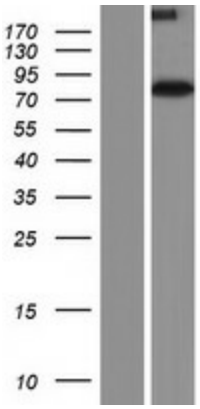
MW: 74.3 kDa

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]

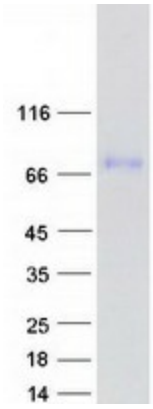
Product images:



Circular map for RC227680



Western blot validation of overexpression lysate (Cat# [LY428944]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227680 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPSM1 protein (Cat# [TP327680]). The protein was produced from HEK293T cells transfected with GPSM1 cDNA clone (Cat# RC227680) using MegaTran 2.0 (Cat# [TT210002]).